SGS ACCUTEST IS PART OF SGS, THE WORLD'S LEADING INSPECTION, VERIFICATION, TESTING AND CERTIFICATION COMPANY.

e-Hardcopy 2.0
Automated Report

Technical Report for

Anderson, Mulholland & Associates

BMSMC, Building 5 Area, Humacao, PR

SM04.00.06

SGS Accutest Job Number: FA34224

Sampling Dates: 05/13/16 - 05/24/16

Report to:

Anderson, Mulholland & Associates
2700 Westchester Avenue Suite 417
Purchase, NY 10577
roreilly@amaiconsult.com; ttaylor@amaiconsult.com

ATTN: Terry Taylor

Total number of pages in report: **380**

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

Client Service contact: Heather Wandrey 407-425-6700

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

This report shall not be reproduced, except in its entirety, without the written approval of SGS Accutest.
Test results relate only to samples analyzed.

SGS Accutest is the sole authority for authorizing edits or modifications to this document.
Unauthorized modification of this report is strictly prohibited.

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 **8**
- **4.1:** FA34224-1: RA4-GWS 9
- **4.2:** FA34224-2: BPEB-26 11
- **4.3:** FA34224-3: RA8 (5-6) 13
- **4.4:** FA34224-4: RA8D (5-6) 15
- **4.5:** FA34224-5: MW 21 (7-8) 17
- **4.6:** FA34224-6: RA8-GWD 19
- **4.7:** FA34224-7: RA8-GWS 21
- **4.8:** FA34224-8: TB052416 23
- **4.9:** FA34224-9: BPEB-27 25

Section 5: Misc. Forms **27**
- **5.1:** Chain of Custody 28

Section 6: GC/MS Volatiles - QC Data Summaries **31**
- **6.1:** Method Blank Summary 32
- **6.2:** Blank Spike Summary 36
- **6.3:** Matrix Spike/Matrix Spike Duplicate Summary 40
- **6.4:** Instrument Performance Checks (BFB) 44
- **6.5:** Internal Standard Area Summaries 50
- **6.6:** Surrogate Recovery Summaries 53
- **6.7:** Initial and Continuing Calibration Summaries 55

Section 7: GC/MS Volatiles - Raw Data **87**
- **7.1:** Samples 88
- **7.2:** Method Blanks 145
- **7.3:** Blank Spikes 150
- **7.4:** Matrix Spike/Matrix Spike Duplicates 165
- **7.5:** Instrument Performance Checks (BFB) 193
- **7.6:** Initial and Continuing Calibrations 197
- **7.7:** Instrument Run Logs 353

Section 8: General Chemistry - QC Data Summaries **379**
- **8.1:** Percent Solids Raw Data Summary 380

SGS Accutest

Sample Summary

Anderson, Mulholland & Associates

Job No: FA34224

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

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
FA34224-1	05/23/16	15:45	TSL	05/25/16	AQ	Ground Water	RA4-GWS
FA34224-2	05/23/16	17:40	TSL	05/25/16	AQ	Equipment Blank	BPEB-26
FA34224-3	05/24/16	10:15	TSL	05/25/16	SO	Soil	RA8 (5-6)
FA34224-4	05/24/16	10:15	TSL	05/25/16	SO	Soil	RA8D (5-6)
FA34224-5	05/24/16	11:30	TSL	05/25/16	SO	Soil	MW 21 (7-8)
FA34224-6	05/24/16	12:35	TSL	05/25/16	AQ	Ground Water	RA8-GWD
FA34224-7	05/24/16	14:40	TSL	05/25/16	AQ	Ground Water	RA8-GWS
FA34224-8	05/13/16	08:00	TSL	05/25/16	AQ	Trip Blank Water	TB052416
FA34224-9	05/24/16	15:40	TSL	05/25/16	AQ	Equipment Blank	BPEB-27

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:** FA34224

Site: BMSMC, Building 5 Area, Humacao, PR **Report Date:** 6/6/2016 10:09:29 AM

8 Sample(s), 1 Trip Blank(s) were collected on /between 05/13/2016 and 05/24/2016 and were received at SGS Accutest Southeast (SASE) on 05/25/2016 properly preserved, at 4.5 Deg. C and intact. These Samples received an SASE job number of FA34224. 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:** VJ5316

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA34224-1MS, FA34224-1MSD were used as the QC samples indicated.

Matrix: SO **Batch ID:** VY1166

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA34192-5MS, FA34192-5MSD were used as the QC samples indicated.

Matrix Spike Recovery(s) for Cyclohexane, Dichlorodifluoromethane, Ethylbenzene, Methyl Acetate, Methylcyclohexane 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 Cyclohexane, Dichlorodifluoromethane, Ethylbenzene, Methylcyclohexane are outside control limits. Probable cause is due to matrix interference. % RPD was within control limits in MS/MSD.

FA34224-3 for Methylene Chloride: Suspected laboratory contaminant.

FA34224-4 for Methylene Chloride: Suspected laboratory contaminant.

FA34224-5 for Methylene Chloride: Suspected laboratory contaminant.

Wet Chemistry By Method SM19 2540G

Matrix: SO **Batch ID:** GN71157

Sample(s) FA34399-1DUP 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: June 6, 2016

Kim Benham, Client Services (signature on file)

Manual Integration Summary

Lab Sample ID	Analysis Type	File ID	Manual
FA34224-1MS	MSVOA	J0976822.D	Carbon Tetrachloride, Trichlorofluoromethane
FA34224-1MSD	MSVOA	J0976823.D	Carbon Tetrachloride, Ethyl Alcohol, Trichlorofluoromethane
VJ5312-IC5312	MSVOA	J0976753.D	Carbon Tetrachloride, Trichlorofluoromethane
VJ5312-IC5312	MSVOA	J0976754.D	Carbon Tetrachloride, Ethyl Alcohol, Trichlorofluoromethane
VJ5312-IC5312	MSVOA	J0976755.D	Carbon Tetrachloride, Trichlorofluoromethane
VJ5312-IC5312	MSVOA	J0976756.D	Carbon Tetrachloride, Ethyl Alcohol, Trichlorofluoromethane
VJ5312-IC5312	MSVOA	J0976758.D	Carbon Tetrachloride, Ethyl Alcohol, Trichlorofluoromethane
VJ5312-IC5312	MSVOA	J0976759.D	Carbon Tetrachloride, Ethyl Alcohol, Trichlorofluoromethane
VJ5312-ICC5312	MSVOA	J0976757.D	Carbon Tetrachloride, Trichlorofluoromethane
VJ5312-ICV5312	MSVOA	J0976761.D	Carbon Tetrachloride, Ethyl Alcohol, Trichlorofluoromethane
VJ5315-CC5312	MSVOA	J0976813.D	Carbon Tetrachloride, Ethyl Alcohol, Trichlorofluoromethane
VJ5316-BS	MSVOA	J0976814.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 FA34224

Summary of Hits

Job Number: FA34224
Account: Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, Humacao, PR
Collected: 05/13/16 thru 05/24/16

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
FA34224-1	**RA4-GWS**					
Acetone		14.8 J	25	10	ug/l	SW846 8260C
Benzene		0.59 J	1.0	0.20	ug/l	SW846 8260C
Carbon Disulfide		0.37 J	2.0	0.23	ug/l	SW846 8260C
Ethylbenzene		0.31 J	1.0	0.25	ug/l	SW846 8260C
Methyl Tert Butyl Ether		8.7	1.0	0.20	ug/l	SW846 8260C
m,p-Xylene		0.32 J	2.0	0.30	ug/l	SW846 8260C
FA34224-2	**BPEB-26**					
No hits reported in this sample.						
FA34224-3	**RA8 (5-6)**					
Methylene Chloride [a]		9.0 J	12	4.9	ug/kg	SW846 8260C
FA34224-4	**RA8D (5-6)**					
Methylene Chloride [a]		7.9 J	9.2	3.7	ug/kg	SW846 8260C
FA34224-5	**MW 21 (7-8)**					
Methylene Chloride [a]		6.7 J	11	4.3	ug/kg	SW846 8260C
FA34224-6	**RA8-GWD**					
Carbon Disulfide		0.44 J	2.0	0.23	ug/l	SW846 8260C
Cyclohexane		3.7	1.0	0.26	ug/l	SW846 8260C
Isopropylbenzene		0.42 J	1.0	0.33	ug/l	SW846 8260C
Methyl Tert Butyl Ether		44.2	1.0	0.20	ug/l	SW846 8260C
Tert-Butyl Alcohol		1640	400	180	ug/l	SW846 8260C
Tetrahydrofuran		5.1	5.0	1.4	ug/l	SW846 8260C
FA34224-7	**RA8-GWS**					
Methyl Tert Butyl Ether		3.2	1.0	0.20	ug/l	SW846 8260C
FA34224-8	**TB052416**					
No hits reported in this sample.						
FA34224-9	**BPEB-27**					
No hits reported in this sample.						

Summary of Hits

Job Number: FA34224
Account: Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, Humacao, PR
Collected: 05/13/16 thru 05/24/16

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method

(a) Suspected laboratory contaminant.

Sample Results

Report of Analysis

SGS Accutest

Report of Analysis

Client Sample ID:	RA4-GWS		
Lab Sample ID:	FA34224-1	**Date Sampled:**	05/23/16
Matrix:	AQ - Ground Water	**Date Received:**	05/25/16
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	J0976816.D	1	05/26/16	DP	n/a	n/a	VJ5316
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	14.8	25	10	ug/l	J
71-43-2	Benzene	0.59	1.0	0.20	ug/l	J
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	0.37	2.0	0.23	ug/l	J
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	0.31	1.0	0.25	ug/l	J
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 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:	RA4-GWS		
Lab Sample ID:	FA34224-1	**Date Sampled:**	05/23/16
Matrix:	AQ - Ground Water	**Date Received:**	05/25/16
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	8.7	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	0.32	2.0	0.30	ug/l	J
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	104%		79-125%
2037-26-5	Toluene-D8	102%		85-112%
460-00-4	4-Bromofluorobenzene	105%		83-118%

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:	BPEB-26		
Lab Sample ID:	FA34224-2	**Date Sampled:**	05/23/16
Matrix:	AQ - Equipment Blank	**Date Received:**	05/25/16
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	J0976817.D	1	05/26/16	DP	n/a	n/a	VJ5316
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	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-26		
Lab Sample ID:	FA34224-2	**Date Sampled:**	05/23/16
Matrix:	AQ - Equipment Blank	**Date Received:**	05/25/16
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	102%		79-125%
2037-26-5	Toluene-D8	100%		85-112%
460-00-4	4-Bromofluorobenzene	103%		83-118%

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:	RA8 (5-6)		
Lab Sample ID:	FA34224-3	**Date Sampled:**	05/24/16
Matrix:	SO - Soil	**Date Received:**	05/25/16
Method:	SW846 8260C SW846 5035	**Percent Solids:**	82.3
Project:	BMSMC, Building 5 Area, Humacao, PR		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Y28868.D	1	05/26/16	EP	05/25/16 13:55	n/a	VY1166
Run #2							

	Initial Weight	Final Volume
Run #1	4.98 g	5.0 ml
Run #2		

VOA TCL List (SOM02.0)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	61	12	ug/kg	
71-43-2	Benzene	ND	6.1	1.5	ug/kg	
100-44-7	Benzyl Chloride	ND	6.1	1.7	ug/kg	
74-97-5	Bromochloromethane	ND	6.1	1.4	ug/kg	
75-27-4	Bromodichloromethane	ND	6.1	1.2	ug/kg	
75-25-2	Bromoform	ND	6.1	1.2	ug/kg	
78-93-3	2-Butanone (MEK)	ND	30	11	ug/kg	
75-15-0	Carbon Disulfide	ND	6.1	1.2	ug/kg	
56-23-5	Carbon Tetrachloride	ND	6.1	2.2	ug/kg	
108-90-7	Chlorobenzene	ND	6.1	1.2	ug/kg	
75-00-3	Chloroethane	ND	6.1	2.4	ug/kg	
67-66-3	Chloroform	ND	6.1	1.5	ug/kg	
110-82-7	Cyclohexane	ND	6.1	1.5	ug/kg	
124-48-1	Dibromochloromethane	ND	6.1	1.2	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	6.1	2.7	ug/kg	
106-93-4	1,2-Dibromoethane	ND	6.1	1.2	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	6.1	3.0	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	6.1	1.2	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	6.1	1.2	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	6.1	1.2	ug/kg	
75-34-3	1,1-Dichloroethane	ND	6.1	2.0	ug/kg	
107-06-2	1,2-Dichloroethane	ND	6.1	1.2	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	6.1	1.2	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	6.1	1.5	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	ND	6.1	1.9	ug/kg	
78-87-5	1,2-Dichloropropane	ND	6.1	1.9	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	6.1	2.3	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	6.1	1.2	ug/kg	
100-41-4	Ethylbenzene	ND	6.1	1.3	ug/kg	
76-13-1	Freon 113	ND	6.1	1.4	ug/kg	
591-78-6	2-Hexanone	ND	30	11	ug/kg	
98-82-8	Isopropylbenzene	ND	6.1	1.7	ug/kg	

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:	RA8 (5-6)		
Lab Sample ID:	FA34224-3	**Date Sampled:**	05/24/16
Matrix:	SO - Soil	**Date Received:**	05/25/16
Method:	SW846 8260C SW846 5035	**Percent Solids:**	82.3
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	6.1	1.2	ug/kg	
79-20-9	Methyl Acetate	ND	30	10	ug/kg	
74-83-9	Methyl Bromide	ND	6.1	3.1	ug/kg	
74-87-3	Methyl Chloride	ND	6.1	2.9	ug/kg	
108-87-2	Methylcyclohexane	ND	6.1	1.2	ug/kg	
75-09-2	Methylene Chloride [a]	9.0	12	4.9	ug/kg	J
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	30	13	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	6.1	1.4	ug/kg	
100-42-5	Styrene	ND	6.1	1.2	ug/kg	
75-85-4	Tert-Amyl Alcohol	ND	61	16	ug/kg	
75-65-0	Tert-Butyl Alcohol	ND	61	17	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	6.1	2.7	ug/kg	
127-18-4	Tetrachloroethylene	ND	6.1	1.6	ug/kg	
109-99-9	Tetrahydrofuran	ND	12	4.4	ug/kg	
108-88-3	Toluene	ND	6.1	1.4	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	6.1	2.4	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	6.1	1.8	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	6.1	1.2	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	6.1	2.2	ug/kg	
79-01-6	Trichloroethylene	ND	6.1	1.4	ug/kg	
75-69-4	Trichlorofluoromethane	ND	6.1	2.3	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	ND	6.1	1.2	ug/kg	
75-01-4	Vinyl Chloride	ND	6.1	2.0	ug/kg	
	m,p-Xylene	ND	12	2.1	ug/kg	
95-47-6	o-Xylene	ND	6.1	1.3	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	99%		75-124%
17060-07-0	1,2-Dichloroethane-D4	107%		72-135%
2037-26-5	Toluene-D8	99%		75-126%
460-00-4	4-Bromofluorobenzene	102%		71-133%

(a) Suspected laboratory contaminant.

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:	RA8D (5-6)		
Lab Sample ID:	FA34224-4	**Date Sampled:**	05/24/16
Matrix:	SO - Soil	**Date Received:**	05/25/16
Method:	SW846 8260C SW846 5035	**Percent Solids:**	n/a [a]
Project:	BMSMC, Building 5 Area, Humacao, PR		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Y28869.D	1	05/26/16	EP	05/25/16 13:55	n/a	VY1166
Run #2							

	Initial Weight	Final Volume
Run #1	5.46 g	5.0 ml
Run #2		

VOA TCL List (SOM02.0)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	46	9.3	ug/kg	
71-43-2	Benzene	ND	4.6	1.2	ug/kg	
100-44-7	Benzyl Chloride	ND	4.6	1.3	ug/kg	
74-97-5	Bromochloromethane	ND	4.6	1.0	ug/kg	
75-27-4	Bromodichloromethane	ND	4.6	0.92	ug/kg	
75-25-2	Bromoform	ND	4.6	0.92	ug/kg	
78-93-3	2-Butanone (MEK)	ND	23	8.3	ug/kg	
75-15-0	Carbon Disulfide	ND	4.6	0.92	ug/kg	
56-23-5	Carbon Tetrachloride	ND	4.6	1.6	ug/kg	
108-90-7	Chlorobenzene	ND	4.6	0.92	ug/kg	
75-00-3	Chloroethane	ND	4.6	1.8	ug/kg	
67-66-3	Chloroform	ND	4.6	1.1	ug/kg	
110-82-7	Cyclohexane	ND	4.6	1.1	ug/kg	
124-48-1	Dibromochloromethane	ND	4.6	0.92	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	4.6	2.0	ug/kg	
106-93-4	1,2-Dibromoethane	ND	4.6	0.92	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	4.6	2.3	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	4.6	0.92	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	4.6	0.92	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	4.6	0.93	ug/kg	
75-34-3	1,1-Dichloroethane	ND	4.6	1.5	ug/kg	
107-06-2	1,2-Dichloroethane	ND	4.6	0.92	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	4.6	0.92	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	4.6	1.1	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	ND	4.6	1.4	ug/kg	
78-87-5	1,2-Dichloropropane	ND	4.6	1.5	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	4.6	1.7	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	4.6	0.92	ug/kg	
100-41-4	Ethylbenzene	ND	4.6	1.0	ug/kg	
76-13-1	Freon 113	ND	4.6	1.1	ug/kg	
591-78-6	2-Hexanone	ND	23	8.0	ug/kg	
98-82-8	Isopropylbenzene	ND	4.6	1.3	ug/kg	

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:	RA8D (5-6)		
Lab Sample ID:	FA34224-4	**Date Sampled:**	05/24/16
Matrix:	SO - Soil	**Date Received:**	05/25/16
Method:	SW846 8260C SW846 5035	**Percent Solids:**	n/a [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	4.6	0.92	ug/kg	
79-20-9	Methyl Acetate	ND	23	7.9	ug/kg	
74-83-9	Methyl Bromide	ND	4.6	2.4	ug/kg	
74-87-3	Methyl Chloride	ND	4.6	2.2	ug/kg	
108-87-2	Methylcyclohexane	ND	4.6	0.92	ug/kg	
75-09-2	Methylene Chloride [b]	7.9	9.2	3.7	ug/kg	J
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	23	9.8	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	4.6	1.0	ug/kg	
100-42-5	Styrene	ND	4.6	0.92	ug/kg	
75-85-4	Tert-Amyl Alcohol	ND	46	12	ug/kg	
75-65-0	Tert-Butyl Alcohol	ND	46	12	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	4.6	2.0	ug/kg	
127-18-4	Tetrachloroethylene	ND	4.6	1.2	ug/kg	
109-99-9	Tetrahydrofuran	ND	9.2	3.3	ug/kg	
108-88-3	Toluene	ND	4.6	1.0	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	4.6	1.8	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	4.6	1.4	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	4.6	0.92	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	4.6	1.7	ug/kg	
79-01-6	Trichloroethylene	ND	4.6	1.1	ug/kg	
75-69-4	Trichlorofluoromethane	ND	4.6	1.7	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	ND	4.6	0.92	ug/kg	
75-01-4	Vinyl Chloride	ND	4.6	1.5	ug/kg	
	m,p-Xylene	ND	9.2	1.6	ug/kg	
95-47-6	o-Xylene	ND	4.6	1.0	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	99%		75-124%
17060-07-0	1,2-Dichloroethane-D4	103%		72-135%
2037-26-5	Toluene-D8	99%		75-126%
460-00-4	4-Bromofluorobenzene	106%		71-133%

(a) All results reported on a wet weight basis.
(b) Suspected laboratory contaminant.

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:	MW 21 (7-8)		
Lab Sample ID:	FA34224-5	**Date Sampled:**	05/24/16
Matrix:	SO - Soil	**Date Received:**	05/25/16
Method:	SW846 8260C SW846 5035	**Percent Solids:**	81.0
Project:	BMSMC, Building 5 Area, Humacao, PR		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Y28870.D	1	05/26/16	EP	05/25/16 13:55	n/a	VY1166
Run #2							

	Initial Weight	Final Volume
Run #1	5.80 g	5.0 ml
Run #2		

VOA TCL List (SOM02.0)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	53	11	ug/kg	
71-43-2	Benzene	ND	5.3	1.3	ug/kg	
100-44-7	Benzyl Chloride	ND	5.3	1.5	ug/kg	
74-97-5	Bromochloromethane	ND	5.3	1.2	ug/kg	
75-27-4	Bromodichloromethane	ND	5.3	1.1	ug/kg	
75-25-2	Bromoform	ND	5.3	1.1	ug/kg	
78-93-3	2-Butanone (MEK)	ND	27	9.7	ug/kg	
75-15-0	Carbon Disulfide	ND	5.3	1.1	ug/kg	
56-23-5	Carbon Tetrachloride	ND	5.3	1.9	ug/kg	
108-90-7	Chlorobenzene	ND	5.3	1.1	ug/kg	
75-00-3	Chloroethane	ND	5.3	2.1	ug/kg	
67-66-3	Chloroform	ND	5.3	1.3	ug/kg	
110-82-7	Cyclohexane	ND	5.3	1.3	ug/kg	
124-48-1	Dibromochloromethane	ND	5.3	1.1	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.3	2.4	ug/kg	
106-93-4	1,2-Dibromoethane	ND	5.3	1.1	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	5.3	2.6	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	5.3	1.1	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	5.3	1.1	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	5.3	1.1	ug/kg	
75-34-3	1,1-Dichloroethane	ND	5.3	1.8	ug/kg	
107-06-2	1,2-Dichloroethane	ND	5.3	1.1	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	5.3	1.1	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	5.3	1.3	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	ND	5.3	1.6	ug/kg	
78-87-5	1,2-Dichloropropane	ND	5.3	1.7	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	5.3	2.0	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	5.3	1.1	ug/kg	
100-41-4	Ethylbenzene	ND	5.3	1.2	ug/kg	
76-13-1	Freon 113	ND	5.3	1.2	ug/kg	
591-78-6	2-Hexanone	ND	27	9.3	ug/kg	
98-82-8	Isopropylbenzene	ND	5.3	1.5	ug/kg	

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:	MW 21 (7-8)		
Lab Sample ID:	FA34224-5	**Date Sampled:**	05/24/16
Matrix:	SO - Soil	**Date Received:**	05/25/16
Method:	SW846 8260C SW846 5035	**Percent Solids:**	81.0
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	5.3	1.1	ug/kg	
79-20-9	Methyl Acetate	ND	27	9.1	ug/kg	
74-83-9	Methyl Bromide	ND	5.3	2.7	ug/kg	
74-87-3	Methyl Chloride	ND	5.3	2.6	ug/kg	
108-87-2	Methylcyclohexane	ND	5.3	1.1	ug/kg	
75-09-2	Methylene Chloride [a]	6.7	11	4.3	ug/kg	J
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	27	11	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	5.3	1.2	ug/kg	
100-42-5	Styrene	ND	5.3	1.1	ug/kg	
75-85-4	Tert-Amyl Alcohol	ND	53	14	ug/kg	
75-65-0	Tert-Butyl Alcohol	ND	53	14	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.3	2.4	ug/kg	
127-18-4	Tetrachloroethylene	ND	5.3	1.4	ug/kg	
109-99-9	Tetrahydrofuran	ND	11	3.9	ug/kg	
108-88-3	Toluene	ND	5.3	1.2	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	5.3	2.1	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	5.3	1.6	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	5.3	1.1	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	5.3	1.9	ug/kg	
79-01-6	Trichloroethylene	ND	5.3	1.2	ug/kg	
75-69-4	Trichlorofluoromethane	ND	5.3	2.0	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	ND	5.3	1.1	ug/kg	
75-01-4	Vinyl Chloride	ND	5.3	1.8	ug/kg	
	m,p-Xylene	ND	11	1.9	ug/kg	
95-47-6	o-Xylene	ND	5.3	1.2	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	98%		75-124%
17060-07-0	1,2-Dichloroethane-D4	109%		72-135%
2037-26-5	Toluene-D8	102%		75-126%
460-00-4	4-Bromofluorobenzene	105%		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:	RA8-GWD		
Lab Sample ID:	FA34224-6	**Date Sampled:**	05/24/16
Matrix:	AQ - Ground Water	**Date Received:**	05/25/16
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	J0976818.D	1	05/26/16	DP	n/a	n/a	VJ5316
Run #2	J0976827.D	20	05/26/16	DP	n/a	n/a	VJ5316

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

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	0.44	2.0	0.23	ug/l	J
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	3.7	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	0.42	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:	RA8-GWD		
Lab Sample ID:	FA34224-6	**Date Sampled:**	05/24/16
Matrix:	AQ - Ground Water	**Date Received:**	05/25/16
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	44.2	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	1640 [a]	400	180	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	5.1	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%	101%	83-118%
17060-07-0	1,2-Dichloroethane-D4	102%	102%	79-125%
2037-26-5	Toluene-D8	102%	102%	85-112%
460-00-4	4-Bromofluorobenzene	105%	103%	83-118%

(a) Result is from Run# 2

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:	RA8-GWS		
Lab Sample ID:	FA34224-7	**Date Sampled:**	05/24/16
Matrix:	AQ - Ground Water	**Date Received:**	05/25/16
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	J0976826.D	1	05/26/16	DP	n/a	n/a	VJ5316
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	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:	RA8-GWS		
Lab Sample ID:	FA34224-7	**Date Sampled:**	05/24/16
Matrix:	AQ - Ground Water	**Date Received:**	05/25/16
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	3.2	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	103%		79-125%
2037-26-5	Toluene-D8	103%		85-112%
460-00-4	4-Bromofluorobenzene	103%		83-118%

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:	TB052416		
Lab Sample ID:	FA34224-8	**Date Sampled:**	05/13/16
Matrix:	AQ - Trip Blank Water	**Date Received:**	05/25/16
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	J0976820.D	1	05/26/16	DP	n/a	n/a	VJ5316
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	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:	TB052416		
Lab Sample ID:	FA34224-8	**Date Sampled:**	05/13/16
Matrix:	AQ - Trip Blank Water	**Date Received:**	05/25/16
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	104%		79-125%
2037-26-5	Toluene-D8	105%		85-112%
460-00-4	4-Bromofluorobenzene	102%		83-118%

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:	BPEB-27		
Lab Sample ID:	FA34224-9	**Date Sampled:**	05/24/16
Matrix:	AQ - Equipment Blank	**Date Received:**	05/25/16
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	J0976821.D	1	05/26/16	DP	n/a	n/a	VJ5316
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	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-27		
Lab Sample ID:	FA34224-9	**Date Sampled:**	05/24/16
Matrix:	AQ - Equipment Blank	**Date Received:**	05/25/16
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	103%		83-118%
17060-07-0	1,2-Dichloroethane-D4	106%		79-125%
2037-26-5	Toluene-D8	103%		85-112%
460-00-4	4-Bromofluorobenzene	103%		83-118%

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

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

FA34224 PAGE 1 OF 1

80763804219 4

Bottle Order Control #

SGS Accutest Quote #

SGS Accutest Job # Got from NJ

Client / Reporting Information

Company Name: Anderson Mulholland Assoc Inc.

Project Name: BMS Release Assessment

Street Address: 2700 Westchester

Street

City: Purchase State: NY Zip:

City: Humacao State: PR

Project Contact: Terry Taylor E-mail:

Project #

Phone #: 914-251-0400 Fax #:

Client Purchase Order #

Sampler(s) Name(s): T. Taylor, R. Stuart, D. Lindstrand Phone #:

Project Manager

Billing Information (if different from Report to)

Company Name

Street Address

City State Zip

Attention:

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	VOC - Method 8260C	LAB USE ONLY
1	RA4-GWS		05/23/16	1545	TT	GW	3	3								X	
2	BPEB-26		05/23/16	1740	TT	EB	3	3								X	
3	RA8 (5-6)		05/24/16	1015	TT	SO	4					1			3	X	
4	RA8D (5-6)		05/24/16	1015	TT	SO	3								3	X	
5	MW21 (7-8)		05/24/16	1130	TT	SO	4					1			3	X	
6	RA8-GWD		05/24/16	1235	TT	GW	3	3								X	
7	RA8-GWS		05/24/16	1440	TT	GW	3	3								X	
8	TB05 24 16		05/13/16	0800		TB	2	2								X	
9	BPEB-27		05/24/16	1540	TT	EB	3	3								X	

Turnaround Time (Business days)

- [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

Approved By (SGS Accutest PM): / Date:

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 Reports Tetrahydrofuran, p-Isopropyl toluene, Benzyl chloride, 1-2-4 Trimethyl benzene, Tetra 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 [signature]	05/24/16 1700	1 Fed Ex	2 FX		2 [signature] 5/25/16 930
Relinquished by Sampler: 3	Date Time:	Received By: 3	Relinquished By: 4	Date Time:	Received By: 4
Relinquished by: 5	Date Time:	Received By: 5	Custody Seal #	[ ] Intact [ ] Not intact	Preserved where applicable [ ] On Ice [x] Cooler Temp. 4.5

[redacted]

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

AIRBILL NUMBERS: 8076 3804 2194

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
- [ ] 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 9

NUMBER OF 5035 FIELD KITS ? _____

NUMBER OF LAB FILTERED METALS ? _____

TEMPERATURE INFORMATION

- [ ] IR THERM ID 1 CORR. FACTOR +0.0
- [ ] OBSERVED TEMPS: 4.5
- [ ] CORRECTED TEMPS: 4.5 (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
- [x] % 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: Jar not received for sample #4

TECHNICIAN SIGNATURE/DATE 5/25/16 REVIEWER SIGNATURE/DATE 5/25/16

NF 11/15 RECEIPTLOG040416.xls

5.1 5

FedEx Express International Air Waybill

Origin Copy

1 From

Date 052416 Sender's FedEx Account Number

Sender's Name David Lindstrand Phone 787-487-4290

Company Anderson Mulholland Assoc. Inc.

Address BMS in Care of

Address Rd # 3, KM 77.5

City Humacao State/Province PR

Country USA ZIP/Postal Code 00791

2 To

Recipient's Name Sample Receiving Phone 407-425-6700

Company SGS Accutest Florida

Address 4405 Vineland Rd. Dept./Floor

Address

City Orlando State/Province FL

Country USA ZIP/Postal Code 32811

Recipient's Tax ID Number for Customs Purposes e.g. GST/RFC/VAT/IN/EIN/ABN, or as locally required.

3 Shipment Information

☐ For EU Only: Tick here if goods are not in free circulation and provide C.I.

Total Packages / Shipper's Load and Count/SLAC

Total Weight 16 ☒ lbs. ☐ kg DIM 11 in. 11 in. 10 in. ☐ cm

Commodity Description	Harmonized Code	Country of Manufacture	Value for Customs
Groundwater Samples		USA	0
Soil Samples		USA	0
			NCV

Has EEI been filed in AES? For U.S. Export Only: Check One

☐ No EEI required, enter exemption number:

☐ Yes – Enter AES proof of filing citation:

☐ No EEI required, value $2,500 or less per Sch. B Number, no license required (NLR), not subject to ITAR.

If other than NLR, enter License Exception:

Total Declared Value for Carriage NCV

Total Value for Customs (Specify Currency) $0 USD

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.

1 ☒ FedEx Intl. Priority 6 ☐ FedEx Intl. First (Available to select locations.)

3 ☐ FedEx Intl. Economy (FedEx Envelope and FedEx Pak rate not available.)

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

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 ☒ 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 ☒ Third Party 4 ☐ Credit Card 5 ☐ Cash/Check/Cheque

FedEx Acct. No. 1147-5950-3

Credit Card Exp. Date

Total Transportation 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:

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 158410 Rev. Date 11/06 ©1994–2006 FedEx PRINTED IN U.S.A. HRDA

Form ID No. HRDA 01/15

FedEx Tracking Number 8076 3804 2194 0402

Origin Station ID	Country Code/Destination Station ID	URSA Routing	Handling Units
NYINC	YIITXIT	TIXIT	Total Volume (cm)

Received At: 1 ☐ Reg. Stop 2 ☐ On-Call Stop 3 ☐ Drop Box 4 ☒ World Service Center 5 ☐ Station

Forms Attached: ☐ CI ☐ CO

Base Charges ____ Declared Val. Chrg. ____ Other ____ ODA/OPA ____ Credit Card Auth. ____

FedEx Emp. # ____ Audit Emp. # ____ Date ____ Time 5:24PM 172 Def. Courier Emp. # ____ Date ____ Time ____

Non-Negotiable International Air Waybill • (c) 1994–2000 FedEx

5.1 5

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: FA34224
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, Humacao, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VY1166-MB	Y28865.D	1	05/26/16	EP	n/a	n/a	VY1166

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

FA34224-3, FA34224-4, FA34224-5

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: FA34224
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, Humacao, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VY1166-MB	Y28865.D	1	05/26/16	EP	n/a	n/a	VY1166

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

FA34224-3, FA34224-4, FA34224-5

CAS No.	Compound	Result	RL	MDL	Units	Q
108-87-2	Methylcyclohexane	ND	5.0	1.0	ug/kg	
75-09-2	Methylene Chloride	ND	10	4.0	ug/kg	
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	106%	75-124%
17060-07-0	1,2-Dichloroethane-D4	115%	72-135%
2037-26-5	Toluene-D8	104%	75-126%
460-00-4	4-Bromofluorobenzene	99%	71-133%

Method Blank Summary

Job Number: FA34224
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, Humacao, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VJ5316-MB	J0976815.D	1	05/26/16	DP	n/a	n/a	VJ5316

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

FA34224-1, FA34224-2, FA34224-6, FA34224-7, FA34224-8, FA34224-9

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: FA34224
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, Humacao, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VJ5316-MB	J0976815.D	1	05/26/16	DP	n/a	n/a	VJ5316

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

FA34224-1, FA34224-2, FA34224-6, FA34224-7, FA34224-8, FA34224-9

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	0.68	2.0	0.51	ug/l	J
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	99%	83-118%
17060-07-0	1,2-Dichloroethane-D4	102%	79-125%
2037-26-5	Toluene-D8	103%	85-112%
460-00-4	4-Bromofluorobenzene	104%	83-118%

Blank Spike Summary

Job Number: FA34224
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, Humacao, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VY1166-BS	Y28864.D	1	05/26/16	EP	n/a	n/a	VY1166

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

FA34224-3, FA34224-4, FA34224-5

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
67-64-1	Acetone	250	206	82	61-152
71-43-2	Benzene	50	56.4	113	76-126
100-44-7	Benzyl Chloride	50	51.9	104	65-126
74-97-5	Bromochloromethane	50	51.0	102	77-120
75-27-4	Bromodichloromethane	50	54.7	109	74-130
75-25-2	Bromoform	50	50.5	101	76-127
78-93-3	2-Butanone (MEK)	250	229	92	75-137
75-15-0	Carbon Disulfide	50	51.9	104	72-122
56-23-5	Carbon Tetrachloride	50	55.4	111	78-133
108-90-7	Chlorobenzene	50	54.9	110	81-129
75-00-3	Chloroethane	50	55.4	111	68-133
67-66-3	Chloroform	50	56.4	113	72-123
110-82-7	Cyclohexane	50	50.1	100	73-126
124-48-1	Dibromochloromethane	50	54.8	110	76-127
96-12-8	1,2-Dibromo-3-chloropropane	50	53.0	106	70-137
106-93-4	1,2-Dibromoethane	50	51.9	104	77-126
75-71-8	Dichlorodifluoromethane	50	46.7	93	68-168
95-50-1	1,2-Dichlorobenzene	50	53.9	108	80-129
541-73-1	1,3-Dichlorobenzene	50	55.0	110	81-129
106-46-7	1,4-Dichlorobenzene	50	52.9	106	76-130
75-34-3	1,1-Dichloroethane	50	57.4	115	73-125
107-06-2	1,2-Dichloroethane	50	54.7	109	74-128
75-35-4	1,1-Dichloroethylene	50	55.1	110	81-136
156-59-2	cis-1,2-Dichloroethylene	50	51.8	104	74-126
156-60-5	trans-1,2-Dichloroethylene	50	61.7	123	70-127
78-87-5	1,2-Dichloropropane	50	54.5	109	74-125
10061-01-5	cis-1,3-Dichloropropene	50	55.3	111	80-123
10061-02-6	trans-1,3-Dichloropropene	50	61.9	124	75-131
100-41-4	Ethylbenzene	50	56.3	113	77-123
76-13-1	Freon 113	50	45.7	91	71-129
591-78-6	2-Hexanone	250	233	93	72-133
98-82-8	Isopropylbenzene	50	56.0	112	80-136
99-87-6	p-Isopropyltoluene	50	55.9	112	77-131
79-20-9	Methyl Acetate	250	288	115	67-137
74-83-9	Methyl Bromide	50	51.5	103	65-139
74-87-3	Methyl Chloride	50	53.0	106	71-144

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA34224
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, Humacao, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VY1166-BS	Y28864.D	1	05/26/16	EP	n/a	n/a	VY1166

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

FA34224-3, FA34224-4, FA34224-5

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
108-87-2	Methylcyclohexane	50	50.7	101	75-128
75-09-2	Methylene Chloride	50	59.8	120	74-137
108-10-1	4-Methyl-2-pentanone (MIBK)	250	255	102	76-132
1634-04-4	Methyl Tert Butyl Ether	50	49.1	98	77-120
100-42-5	Styrene	50	54.7	109	78-125
75-85-4	Tert-Amyl Alcohol	500	484	97	69-130
75-65-0	Tert-Butyl Alcohol	500	490	98	58-136
79-34-5	1,1,2,2-Tetrachloroethane	50	52.9	106	71-126
127-18-4	Tetrachloroethylene	50	50.9	102	79-130
109-99-9	Tetrahydrofuran	50	48.0	96	70-133
108-88-3	Toluene	50	54.9	110	76-124
87-61-6	1,2,3-Trichlorobenzene	50	52.3	105	77-128
120-82-1	1,2,4-Trichlorobenzene	50	49.7	99	78-130
71-55-6	1,1,1-Trichloroethane	50	55.9	112	70-129
79-00-5	1,1,2-Trichloroethane	50	53.0	106	74-124
79-01-6	Trichloroethylene	50	54.9	110	75-128
75-69-4	Trichlorofluoromethane	50	55.8	112	73-145
95-63-6	1,2,4-Trimethylbenzene	50	57.5	115	74-123
75-01-4	Vinyl Chloride	50	53.8	108	76-141
	m,p-Xylene	100	115	115	80-128
95-47-6	o-Xylene	50	54.3	109	80-132

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	100%	75-124%
17060-07-0	1,2-Dichloroethane-D4	105%	72-135%
2037-26-5	Toluene-D8	101%	75-126%
460-00-4	4-Bromofluorobenzene	102%	71-133%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA34224
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, Humacao, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VJ5316-BS	J0976814.D	1	05/26/16	DP	n/a	n/a	VJ5316

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

FA34224-1, FA34224-2, FA34224-6, FA34224-7, FA34224-8, FA34224-9

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
67-64-1	Acetone	125	100	80	50-147
71-43-2	Benzene	25	25.5	102	81-122
100-44-7	Benzyl Chloride	25	24.3	97	54-122
74-97-5	Bromochloromethane	25	23.3	93	76-123
75-27-4	Bromodichloromethane	25	25.7	103	79-123
75-25-2	Bromoform	25	25.2	101	66-123
78-93-3	2-Butanone (MEK)	125	110	88	56-143
75-15-0	Carbon Disulfide	25	23.7	95	66-148
56-23-5	Carbon Tetrachloride	25	26.7	107	76-136
108-90-7	Chlorobenzene	25	25.5	102	82-124
75-00-3	Chloroethane	25	25.7	103	62-144
67-66-3	Chloroform	25	25.1	100	80-124
110-82-7	Cyclohexane	25	26.1	104	73-138
124-48-1	Dibromochloromethane	25	26.5	106	78-122
96-12-8	1,2-Dibromo-3-chloropropane	25	22.0	88	64-123
106-93-4	1,2-Dibromoethane	25	25.6	102	75-120
75-71-8	Dichlorodifluoromethane	25	26.0	104	42-167
95-50-1	1,2-Dichlorobenzene	25	25.3	101	82-124
541-73-1	1,3-Dichlorobenzene	25	26.3	105	84-125
106-46-7	1,4-Dichlorobenzene	25	25.3	101	78-120
75-34-3	1,1-Dichloroethane	25	26.8	107	81-122
107-06-2	1,2-Dichloroethane	25	25.3	101	75-125
75-35-4	1,1-Dichloroethylene	25	27.7	111	78-137
156-59-2	cis-1,2-Dichloroethylene	25	24.7	99	78-120
156-60-5	trans-1,2-Dichloroethylene	25	29.0	116	76-127
78-87-5	1,2-Dichloropropane	25	24.2	97	76-124
10061-01-5	cis-1,3-Dichloropropene	25	26.6	106	75-118
10061-02-6	trans-1,3-Dichloropropene	25	29.0	116	80-120
100-41-4	Ethylbenzene	25	25.7	103	81-121
76-13-1	Freon 113	25	23.6	94	72-134
591-78-6	2-Hexanone	125	110	88	61-129
98-82-8	Isopropylbenzene	25	29.8	119	83-132
99-87-6	p-Isopropyltoluene	25	28.5	114	79-130
79-20-9	Methyl Acetate	125	121	97	65-126
74-83-9	Methyl Bromide	25	25.3	101	59-143
74-87-3	Methyl Chloride	25	24.9	100	50-159

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA34224
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, Humacao, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VJ5316-BS	J0976814.D	1	05/26/16	DP	n/a	n/a	VJ5316

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

FA34224-1, FA34224-2, FA34224-6, FA34224-7, FA34224-8, FA34224-9

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
108-87-2	Methylcyclohexane	25	27.6	110	76-129
75-09-2	Methylene Chloride	25	23.8	95	69-135
108-10-1	4-Methyl-2-pentanone (MIBK)	125	117	94	66-122
1634-04-4	Methyl Tert Butyl Ether	25	23.0	92	72-117
100-42-5	Styrene	25	24.9	100	78-119
75-85-4	Tert-Amyl Alcohol	250	249	100	65-124
75-65-0	Tert-Butyl Alcohol	250	219	88	63-129
79-34-5	1,1,2,2-Tetrachloroethane	25	24.6	98	72-120
127-18-4	Tetrachloroethylene	25	26.8	107	76-135
109-99-9	Tetrahydrofuran	25	21.7	87	56-122
108-88-3	Toluene	25	26.1	104	80-120
87-61-6	1,2,3-Trichlorobenzene	25	25.3	101	68-131
120-82-1	1,2,4-Trichlorobenzene	25	25.8	103	73-129
71-55-6	1,1,1-Trichloroethane	25	24.6	98	75-130
79-00-5	1,1,2-Trichloroethane	25	25.2	101	76-119
79-01-6	Trichloroethylene	25	26.2	105	81-126
75-69-4	Trichlorofluoromethane	25	24.0	96	71-156
95-63-6	1,2,4-Trimethylbenzene	25	27.8	111	79-120
75-01-4	Vinyl Chloride	25	24.9	100	69-159
	m,p-Xylene	50	52.6	105	79-126
95-47-6	o-Xylene	25	28.4	114	80-127

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	101%	83-118%
17060-07-0	1,2-Dichloroethane-D4	101%	79-125%
2037-26-5	Toluene-D8	100%	85-112%
460-00-4	4-Bromofluorobenzene	101%	83-118%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA34224
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, Humacao, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA34224-1MS	J0976822.D	1	05/26/16	DP	n/a	n/a	VJ5316
FA34224-1MSD	J0976823.D	1	05/26/16	DP	n/a	n/a	VJ5316
FA34224-1	J0976816.D	1	05/26/16	DP	n/a	n/a	VJ5316

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

FA34224-1, FA34224-2, FA34224-6, FA34224-7, FA34224-8, FA34224-9

CAS No.	Compound	FA34224-1 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	14.8	J	125	114	79	125	122	86	7	50-147/21
71-43-2	Benzene	0.59	J	25	25.8	101	25	25.6	100	1	81-122/14
100-44-7	Benzyl Chloride	ND		25	23.7	95	25	23.0	92	3	54-122/18
74-97-5	Bromochloromethane	ND		25	22.7	91	25	23.0	92	1	76-123/14
75-27-4	Bromodichloromethane	ND		25	23.7	95	25	22.9	92	3	79-123/19
75-25-2	Bromoform	ND		25	20.2	81	25	19.7	79	3	66-123/21
78-93-3	2-Butanone (MEK)	ND		125	114	91	125	117	94	3	56-143/18
75-15-0	Carbon Disulfide	0.37	J	25	21.7	85	25	21.6	85	0	66-148/23
56-23-5	Carbon Tetrachloride	ND		25	25.5	102	25	23.3	93	9	76-136/23
108-90-7	Chlorobenzene	ND		25	24.3	97	25	24.2	97	0	82-124/14
75-00-3	Chloroethane	ND		25	26.6	106	25	26.0	104	2	62-144/20
67-66-3	Chloroform	ND		25	24.9	100	25	25.0	100	0	80-124/15
110-82-7	Cyclohexane	ND		25	24.1	96	25	23.8	95	1	73-138/18
124-48-1	Dibromochloromethane	ND		25	23.3	93	25	21.7	87	7	78-122/19
96-12-8	1,2-Dibromo-3-chloropropane	ND		25	25.7	103	25	27.2	109	6	64-123/18
106-93-4	1,2-Dibromoethane	ND		25	24.4	98	25	25.2	101	3	75-120/13
75-71-8	Dichlorodifluoromethane	ND		25	26.2	105	25	26.3	105	0	42-167/19
95-50-1	1,2-Dichlorobenzene	ND		25	24.3	97	25	24.4	98	0	82-124/14
541-73-1	1,3-Dichlorobenzene	ND		25	24.9	100	25	24.6	98	1	84-125/14
106-46-7	1,4-Dichlorobenzene	ND		25	23.6	94	25	23.3	93	1	78-120/15
75-34-3	1,1-Dichloroethane	ND		25	26.1	104	25	26.2	105	0	81-122/15
107-06-2	1,2-Dichloroethane	ND		25	24.8	99	25	24.7	99	0	75-125/14
75-35-4	1,1-Dichloroethylene	ND		25	26.3	105	25	26.1	104	1	78-137/18
156-59-2	cis-1,2-Dichloroethylene	ND		25	23.6	94	25	25.0	100	6	78-120/15
156-60-5	trans-1,2-Dichloroethylene	ND		25	28.3	113	25	28.6	114	1	76-127/17
78-87-5	1,2-Dichloropropane	ND		25	23.9	96	25	24.3	97	2	76-124/14
10061-01-5	cis-1,3-Dichloropropene	ND		25	22.9	92	25	22.5	90	2	75-118/23
10061-02-6	trans-1,3-Dichloropropene	ND		25	25.1	100	25	24.0	96	4	80-120/22
100-41-4	Ethylbenzene	0.31	J	25	24.5	97	25	24.1	95	2	81-121/14
76-13-1	Freon 113	ND		25	23.3	93	25	23.5	94	1	72-134/20
591-78-6	2-Hexanone	ND		125	124	99	125	128	102	3	61-129/18
98-82-8	Isopropylbenzene	ND		25	27.5	110	25	27.3	109	1	83-132/15
99-87-6	p-Isopropyltoluene	ND		25	25.1	100	25	24.3	97	3	79-130/16
79-20-9	Methyl Acetate	ND		125	123	98	125	126	101	2	65-126/18
74-83-9	Methyl Bromide	ND		25	25.6	102	25	25.9	104	1	59-143/19
74-87-3	Methyl Chloride	ND		25	24.9	100	25	26.0	104	4	50-159/19

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA34224
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, Humacao, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA34224-1MS	J0976822.D	1	05/26/16	DP	n/a	n/a	VJ5316
FA34224-1MSD	J0976823.D	1	05/26/16	DP	n/a	n/a	VJ5316
FA34224-1	J0976816.D	1	05/26/16	DP	n/a	n/a	VJ5316

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

FA34224-1, FA34224-2, FA34224-6, FA34224-7, FA34224-8, FA34224-9

CAS No.	Compound	FA34224-1 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	23.8	95	25	23.4	94	2	76-129/17
75-09-2	Methylene Chloride	ND		25	22.9	92	25	23.5	94	3	69-135/16
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		125	129	103	125	133	106	3	66-122/16
1634-04-4	Methyl Tert Butyl Ether	8.7		25	31.7	92	25	34.1	102	7	72-117/14
100-42-5	Styrene	ND		25	21.0	84	25	20.6	82	2	78-119/23
75-85-4	Tert-Amyl Alcohol	ND		250	224	90	250	253	101	12	65-124/23
75-65-0	Tert-Butyl Alcohol	ND		250	243	97	250	274	110	12	63-129/27
79-34-5	1,1,2,2-Tetrachloroethane	ND		25	25.3	101	25	25.6	102	1	72-120/14
127-18-4	Tetrachloroethylene	ND		25	25.0	100	25	24.1	96	4	76-135/16
109-99-9	Tetrahydrofuran	ND		25	24.1	96	25	22.7	91	6	56-122/21
108-88-3	Toluene	ND		25	24.8	99	25	24.2	97	2	80-120/14
87-61-6	1,2,3-Trichlorobenzene	ND		25	24.0	96	25	26.0	104	8	68-131/25
120-82-1	1,2,4-Trichlorobenzene	ND		25	24.4	98	25	25.0	100	2	73-129/20
71-55-6	1,1,1-Trichloroethane	ND		25	24.3	97	25	24.4	98	0	75-130/16
79-00-5	1,1,2-Trichloroethane	ND		25	25.3	101	25	24.7	99	2	76-119/14
79-01-6	Trichloroethylene	ND		25	26.1	104	25	26.2	105	0	81-126/15
75-69-4	Trichlorofluoromethane	ND		25	25.6	102	25	24.8	99	3	71-156/21
95-63-6	1,2,4-Trimethylbenzene	ND		25	25.8	103	25	25.2	101	2	79-120/18
75-01-4	Vinyl Chloride	ND		25	24.7	99	25	24.8	99	0	69-159/18
	m,p-Xylene	0.32	J	50	49.9	99	50	49.2	98	1	79-126/15
95-47-6	o-Xylene	ND		25	26.4	106	25	26.5	106	0	80-127/14

CAS No.	Surrogate Recoveries	MS	MSD	FA34224-1	Limits
1868-53-7	Dibromofluoromethane	100%	100%	102%	83-118%
17060-07-0	1,2-Dichloroethane-D4	101%	98%	104%	79-125%
2037-26-5	Toluene-D8	98%	98%	102%	85-112%
460-00-4	4-Bromofluorobenzene	100%	100%	105%	83-118%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA34224
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, Humacao, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA34192-5MS	Y28874.D	1	05/26/16	EP	n/a	n/a	VY1166
FA34192-5MSD	Y28875.D	1	05/26/16	EP	n/a	n/a	VY1166
FA34192-5	Y28873.D	1	05/26/16	EP	n/a	n/a	VY1166

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

FA34224-3, FA34224-4, FA34224-5

CAS No.	Compound	FA34192-5 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	105		308	372	87	308	365	84	2	61-152/27
71-43-2	Benzene	ND		61.6	55.4	90	61.7	54.5	88	2	76-126/26
100-44-7	Benzyl Chloride	ND		61.6	60.7	99	61.7	59.6	97	2	65-126/31
74-97-5	Bromochloromethane	ND		61.6	55.7	90	61.7	57.0	92	2	77-120/24
75-27-4	Bromodichloromethane	ND		61.6	56.4	92	61.7	55.3	90	2	74-130/25
75-25-2	Bromoform	ND		61.6	58.4	95	61.7	57.8	94	1	76-127/26
78-93-3	2-Butanone (MEK)	ND		308	274	89	308	270	88	1	75-137/25
75-15-0	Carbon Disulfide	ND		61.6	57.9	94	61.7	55.5	90	4	72-122/29
56-23-5	Carbon Tetrachloride	ND		61.6	49.4	80	61.7	49.2	80	0	78-133/29
108-90-7	Chlorobenzene	ND		61.6	56.7	92	61.7	54.4	88	4	81-129/29
75-00-3	Chloroethane	ND		61.6	50.7	82	61.7	56.6	92	11	68-133/29
67-66-3	Chloroform	ND		61.6	55.3	90	61.7	54.1	88	2	72-123/26
110-82-7	Cyclohexane	ND		61.6	42.7	69*	61.7	43.9	71*	3	73-126/32
124-48-1	Dibromochloromethane	ND		61.6	58.0	94	61.7	58.0	94	0	76-127/27
96-12-8	1,2-Dibromo-3-chloropropane	ND		61.6	62.7	102	61.7	60.0	97	4	70-137/29
106-93-4	1,2-Dibromoethane	ND		61.6	59.0	96	61.7	56.8	92	4	77-126/26
75-71-8	Dichlorodifluoromethane	ND		61.6	36.2	59*	61.7	37.8	61*	4	68-168/29
95-50-1	1,2-Dichlorobenzene	ND		61.6	56.6	92	61.7	56.1	91	1	80-129/32
541-73-1	1,3-Dichlorobenzene	ND		61.6	54.1	88	61.7	55.6	90	3	81-129/33
106-46-7	1,4-Dichlorobenzene	ND		61.6	53.7	87	61.7	54.2	88	1	76-130/32
75-34-3	1,1-Dichloroethane	ND		61.6	56.0	91	61.7	56.3	91	1	73-125/27
107-06-2	1,2-Dichloroethane	ND		61.6	58.2	95	61.7	58.0	94	0	74-128/23
75-35-4	1,1-Dichloroethylene	ND		61.6	61.5	100	61.7	58.2	94	6	81-136/28
156-59-2	cis-1,2-Dichloroethylene	ND		61.6	53.9	88	61.7	54.2	88	1	74-126/26
156-60-5	trans-1,2-Dichloroethylene	ND		61.6	69.1	112	61.7	64.0	104	8	70-127/27
78-87-5	1,2-Dichloropropane	ND		61.6	56.8	92	61.7	55.0	89	3	74-125/25
10061-01-5	cis-1,3-Dichloropropene	ND		61.6	58.5	95	61.7	57.7	94	1	80-123/26
10061-02-6	trans-1,3-Dichloropropene	ND		61.6	63.4	103	61.7	60.1	97	5	75-131/28
100-41-4	Ethylbenzene	5.9		61.6	126	195*	61.7	116	178*	8	77-123/31
76-13-1	Freon 113	ND		61.6	45.4	74	61.7	44.5	72	2	71-129/30
591-78-6	2-Hexanone	ND		308	286	93	308	270	88	6	72-133/26
98-82-8	Isopropylbenzene	1.7	J	61.6	60.8	96	61.7	59.3	93	2	80-136/32
99-87-6	p-Isopropyltoluene	ND		61.6	50.6	82	61.7	49.2	80	3	77-131/34
79-20-9	Methyl Acetate	ND		308	424	138*	308	376	122	12	67-137/30
74-83-9	Methyl Bromide	ND		61.6	49.8	81	61.7	50.3	82	1	65-139/31
74-87-3	Methyl Chloride	ND		61.6	48.9	79	61.7	48.2	78	1	71-144/27

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA34224
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, Humacao, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA34192-5MS	Y28874.D	1	05/26/16	EP	n/a	n/a	VY1166
FA34192-5MSD	Y28875.D	1	05/26/16	EP	n/a	n/a	VY1166
FA34192-5	Y28873.D	1	05/26/16	EP	n/a	n/a	VY1166

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

FA34224-3, FA34224-4, FA34224-5

CAS No.	Compound	FA34192-5 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	ND		61.6	38.8	63*	61.7	38.2	62*	2	75-128/31
75-09-2	Methylene Chloride	5.5	J	61.6	78.3	118	61.7	76.2	115	3	74-137/28
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		308	310	101	308	290	94	7	76-132/26
1634-04-4	Methyl Tert Butyl Ether	ND		61.6	71.8	117	61.7	68.8	112	4	77-120/24
100-42-5	Styrene	ND		61.6	59.4	97	61.7	58.9	95	1	78-125/30
75-85-4	Tert-Amyl Alcohol	ND		616	471	77	617	501	81	6	69-130/32
75-65-0	Tert-Butyl Alcohol	ND		616	580	94	617	619	100	7	74-126/32
79-34-5	1,1,2,2-Tetrachloroethane	ND		61.6	68.4	111	61.7	66.1	107	3	71-126/30
127-18-4	Tetrachloroethylene	ND		61.6	53.7	87	61.7	55.5	90	3	79-130/31
109-99-9	Tetrahydrofuran	ND		61.6	55.5	90	61.7	54.8	89	1	70-133/26
108-88-3	Toluene	ND		61.6	55.2	90	61.7	53.7	87	3	76-124/30
87-61-6	1,2,3-Trichlorobenzene	ND		61.6	55.6	90	61.7	52.4	85	6	77-128/35
120-82-1	1,2,4-Trichlorobenzene	ND		61.6	51.7	84	61.7	52.0	84	1	78-130/34
71-55-6	1,1,1-Trichloroethane	ND		61.6	53.5	87	61.7	51.5	83	4	70-129/27
79-00-5	1,1,2-Trichloroethane	ND		61.6	65.2	106	61.7	61.3	99	6	74-124/28
79-01-6	Trichloroethylene	ND		61.6	52.4	85	61.7	53.3	86	2	75-128/27
75-69-4	Trichlorofluoromethane	ND		61.6	52.0	84	61.7	52.2	85	0	73-145/31
95-63-6	1,2,4-Trimethylbenzene	ND		61.6	55.6	90	61.7	54.1	88	3	74-123/34
75-01-4	Vinyl Chloride	ND		61.6	48.7	79	61.7	48.3	78	1	76-141/27
	m,p-Xylene	6.4	J	123	137	106	123	130	100	5	80-128/30
95-47-6	o-Xylene	ND		61.6	59.7	97	61.7	58.1	94	3	80-132/30

CAS No.	Surrogate Recoveries	MS	MSD	FA34192-5	Limits
1868-53-7	Dibromofluoromethane	99%	97%	105%	75-124%
17060-07-0	1,2-Dichloroethane-D4	102%	98%	112%	72-135%
2037-26-5	Toluene-D8	100%	99%	92%	75-126%
460-00-4	4-Bromofluorobenzene	102%	108%	101%	71-133%

* = Outside of Control Limits.

Instrument Performance Check (BFB)

Job Number: FA34224
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, Humacao, PR

Sample: VJ5312-BFB
Lab File ID: J0976752.D
Instrument ID: GCMSJ
Injection Date: 05/24/16
Injection Time: 09:52

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	15.0 - 40.0% of mass 95	47293	18.0		Pass
75	30.0 - 60.0% of mass 95	132477	50.4		Pass
95	Base peak, 100% relative abundance	262912	100.0		Pass
96	5.0 - 9.0% of mass 95	17827	6.78		Pass
173	Less than 2.0% of mass 174	0	0.00	(0.00) [a]	Pass
174	50.0 - 100.0% of mass 95	208573	79.3		Pass
175	5.0 - 9.0% of mass 174	16138	6.14	(7.74) [a]	Pass
176	95.0 - 101.0% of mass 174	202843	77.2	(97.3) [a]	Pass
177	5.0 - 9.0% of mass 176	13948	5.31	(6.88) [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
VJ5312-IC5312	J0976753.D	05/24/16	10:33	00:41	Initial cal 1
VJ5312-IC5312	J0976754.D	05/24/16	10:56	01:04	Initial cal 2
VJ5312-IC5312	J0976755.D	05/24/16	11:18	01:26	Initial cal 3
VJ5312-IC5312	J0976756.D	05/24/16	11:41	01:49	Initial cal 4
VJ5312-ICC5312	J0976757.D	05/24/16	12:04	02:12	Initial cal 5
VJ5312-IC5312	J0976758.D	05/24/16	12:27	02:35	Initial cal 6
VJ5312-IC5312	J0976759.D	05/24/16	12:49	02:57	Initial cal 7
VJ5312-ICV5312	J0976761.D	05/24/16	13:36	03:44	Initial cal verification 5
VJ5312-BS	J0976762.D	05/24/16	14:04	04:12	Blank Spike
VJ5312-MB	J0976763.D	05/24/16	14:27	04:35	Method Blank
ZZZZZZ	J0976764.D	05/24/16	14:50	04:58	(unrelated sample)
ZZZZZZ	J0976765.D	05/24/16	15:13	05:21	(unrelated sample)
ZZZZZZ	J0976766.D	05/24/16	15:36	05:44	(unrelated sample)
ZZZZZZ	J0976767.D	05/24/16	15:58	06:06	(unrelated sample)
ZZZZZZ	J0976768.D	05/24/16	16:21	06:29	(unrelated sample)
ZZZZZZ	J0976769.D	05/24/16	16:44	06:52	(unrelated sample)
ZZZZZZ	J0976770.D	05/24/16	17:06	07:14	(unrelated sample)
ZZZZZZ	J0976771.D	05/24/16	17:29	07:37	(unrelated sample)
ZZZZZZ	J0976773.D	05/24/16	18:15	08:23	(unrelated sample)
ZZZZZZ	J0976774.D	05/24/16	18:38	08:46	(unrelated sample)
ZZZZZZ	J0976775.D	05/24/16	19:00	09:08	(unrelated sample)
ZZZZZZ	J0976776.D	05/24/16	19:24	09:32	(unrelated sample)
FA33997-3	J0976777.D	05/24/16	19:46	09:54	(used for QC only; not part of job FA34224)
FA33997-3MS	J0976778.D	05/24/16	20:09	10:17	Matrix Spike

Instrument Performance Check (BFB)

Job Number: FA34224
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, Humacao, PR

Sample: VJ5312-BFB
Lab File ID: J0976752.D
Instrument ID: GCMSJ
Injection Date: 05/24/16
Injection Time: 09:52

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
FA33997-3MSD	J0976779.D	05/24/16	20:31	10:39	Matrix Spike Duplicate
VJ5312-ECC5312	J0976780.D	05/24/16	20:54	11:02	Ending cal 5

Instrument Performance Check (BFB)

Job Number: FA34224
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, Humacao, PR

Sample: VJ5315-BFB
Lab File ID: J0976812.D
Instrument ID: GCMSJ
Injection Date: 05/26/16
Injection Time: 08:14

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	15.0 - 40.0% of mass 95	48936	16.6		Pass
75	30.0 - 60.0% of mass 95	142821	48.4		Pass
95	Base peak, 100% relative abundance	294869	100.0		Pass
96	5.0 - 9.0% of mass 95	18676	6.33		Pass
173	Less than 2.0% of mass 174	0	0.00	(0.00) [a]	Pass
174	50.0 - 100.0% of mass 95	252352	85.6		Pass
175	5.0 - 9.0% of mass 174	18002	6.11	(7.13) [a]	Pass
176	95.0 - 101.0% of mass 174	245333	83.2	(97.2) [a]	Pass
177	5.0 - 9.0% of mass 176	15668	5.31	(6.39) [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
VJ5315-CC5312	J0976813.D	05/26/16	09:10	00:56	Continuing cal 5
VJ5315-BS	J0976814.D	05/26/16	09:43	01:29	Blank Spike
VJ5316-BS	J0976814.D	05/26/16	09:43	01:29	Blank Spike
VJ5315-MB	J0976815.D	05/26/16	10:05	01:51	Method Blank
VJ5316-MB	J0976815.D	05/26/16	10:05	01:51	Method Blank
FA34224-1	J0976816.D	05/26/16	10:37	02:23	RA4-GWS
FA34224-2	J0976817.D	05/26/16	11:00	02:46	BPEB-26
FA34224-6	J0976818.D	05/26/16	11:23	03:09	RA8-GWD
FA34224-8	J0976820.D	05/26/16	12:09	03:55	TB052416
FA34224-9	J0976821.D	05/26/16	12:32	04:18	BPEB-27
FA34224-1MS	J0976822.D	05/26/16	12:54	04:40	Matrix Spike
FA34224-1MSD	J0976823.D	05/26/16	13:17	05:03	Matrix Spike Duplicate
ZZZZZZ	J0976824.D	05/26/16	13:40	05:26	(unrelated sample)
ZZZZZZ	J0976825.D	05/26/16	14:03	05:49	(unrelated sample)
FA34224-7	J0976826.D	05/26/16	14:25	06:11	RA8-GWS
FA34224-6	J0976827.D	05/26/16	14:48	06:34	RA8-GWD
ZZZZZZ	J0976828.D	05/26/16	15:11	06:57	(unrelated sample)
ZZZZZZ	J0976829.D	05/26/16	15:34	07:20	(unrelated sample)
ZZZZZZ	J0976830.D	05/26/16	15:56	07:42	(unrelated sample)
ZZZZZZ	J0976831.D	05/26/16	16:19	08:05	(unrelated sample)
FA34111-1	J0976832.D	05/26/16	16:42	08:28	(used for QC only; not part of job FA34224)
ZZZZZZ	J0976833.D	05/26/16	17:04	08:50	(unrelated sample)
ZZZZZZ	J0976834.D	05/26/16	17:27	09:13	(unrelated sample)
ZZZZZZ	J0976835.D	05/26/16	17:50	09:36	(unrelated sample)

Instrument Performance Check (BFB)

Job Number: FA34224
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, Humacao, PR

Sample: VJ5315-BFB
Lab File ID: J0976812.D
Instrument ID: GCMSJ
Injection Date: 05/26/16
Injection Time: 08:14

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
ZZZZZZ	J0976836.D	05/26/16	18:13	09:59	(unrelated sample)
FA34111-1MS	J0976837.D	05/26/16	18:35	10:21	Matrix Spike
FA34111-1MSD	J0976838.D	05/26/16	18:58	10:44	Matrix Spike Duplicate
VJ5315-ECC5312	J0976839.D	05/26/16	19:21	11:07	Ending cal 5

Instrument Performance Check (BFB)

Job Number: FA34224
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 FA34224)
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: FA34224
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, Humacao, PR

Sample: VY1166-BFB
Lab File ID: Y28862.D
Instrument ID: GCMSY
Injection Date: 05/26/16
Injection Time: 08:41

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	15.0 - 40.0% of mass 95	29096	17.0		Pass
75	30.0 - 60.0% of mass 95	84197	49.2		Pass
95	Base peak, 100% relative abundance	171072	100.0		Pass
96	5.0 - 9.0% of mass 95	12019	7.03		Pass
173	Less than 2.0% of mass 174	1438	0.84	(1.32) [a]	Pass
174	50.0 - 100.0% of mass 95	108824	63.6		Pass
175	5.0 - 9.0% of mass 174	8038	4.70	(7.39) [a]	Pass
176	95.0 - 101.0% of mass 174	104386	61.0	(95.9) [a]	Pass
177	5.0 - 9.0% of mass 176	6655	3.89	(6.38) [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
VY1166-CC1149	Y28863.D	05/26/16	09:07	00:26	Continuing cal 4
VY1167-BS	Y28864.D	05/26/16	09:33	00:52	Blank Spike
VY1166-BS	Y28864.D	05/26/16	09:33	00:52	Blank Spike
VY1167-MB	Y28865.D	05/26/16	10:00	01:19	Method Blank
VY1166-MB	Y28865.D	05/26/16	10:00	01:19	Method Blank
ZZZZZZ	Y28866.D	05/26/16	10:26	01:45	(unrelated sample)
FA34224-3	Y28868.D	05/26/16	11:20	02:39	RA8 (5-6)
FA34224-4	Y28869.D	05/26/16	11:46	03:05	RA8D (5-6)
FA34224-5	Y28870.D	05/26/16	12:12	03:31	MW 21 (7-8)
ZZZZZZ	Y28872.D	05/26/16	13:05	04:24	(unrelated sample)
FA34192-5	Y28873.D	05/26/16	13:31	04:50	(used for QC only; not part of job FA34224)
FA34192-5MS	Y28874.D	05/26/16	13:58	05:17	Matrix Spike
FA34192-5MSD	Y28875.D	05/26/16	14:24	05:43	Matrix Spike Duplicate
FA34266-1	Y28877.D	05/26/16	15:17	06:36	(used for QC only; not part of job FA34224)
ZZZZZZ	Y28878.D	05/26/16	15:43	07:02	(unrelated sample)
ZZZZZZ	Y28880.D	05/26/16	16:36	07:55	(unrelated sample)
ZZZZZZ	Y28882.D	05/26/16	17:29	08:48	(unrelated sample)
FA34266-1MS	Y28884.D	05/26/16	18:21	09:40	Matrix Spike
FA34266-1MSD	Y28885.D	05/26/16	18:48	10:07	Matrix Spike Duplicate
ZZZZZZ	Y28886.D	05/26/16	19:14	10:33	(unrelated sample)
ZZZZZZ	Y28887.D	05/26/16	19:40	10:59	(unrelated sample)
VY1167-ECC1149	Y28888.D	05/26/16	20:07	11:26	Ending cal 4

Volatile Internal Standard Area Summary

Job Number: FA34224
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, Humacao, PR

Check Std:	VJ5315-CC5312	**Injection Date:**	05/26/16
Lab File ID:	J0976813.D	**Injection Time:**	09:10
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]	1225722	7.76	1002461	10.85	584836	13.21	87450	5.31
Check Std [b]	1307794	7.76	1071583	10.85	604909	13.21	91426	5.29
Upper Limit [c]	2615588	8.26	2143166	11.35	1209818	13.71	182852	5.79
Lower Limit [d]	653897	7.26	535792	10.35	302455	12.71	45713	4.79

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT
VJ5315-BS	1320040	7.76	1058455	10.85	600524	13.20	89092	5.30
VJ5316-BS	1320040	7.76	1058455	10.85	600524	13.20	89092	5.30
VJ5316-MB	1188066	7.76	949415	10.85	496278	13.20	77587	5.30
VJ5315-MB	1188066	7.76	949415	10.85	496278	13.20	77587	5.30
FA34224-1	1150557	7.76	943557	10.85	498454	13.21	85504	5.30
FA34224-2	1109535	7.76	899887	10.85	470828	13.20	58093	5.30
FA34224-6	1101020	7.76	889324	10.85	469525	13.21	62327	5.30
FA34224-8	1066683	7.76	848687	10.85	461563	13.21	59760	5.30
FA34224-9	1089042	7.76	866588	10.85	451636	13.21	61499	5.30
FA34224-1MS	1212332	7.76	991662	10.85	557240	13.20	94712	5.30
FA34224-1MSD	1230167	7.76	1019026	10.85	584094	13.20	87895	5.30
ZZZZZZ	1216187	7.76	977014	10.85	546370	13.20	63896	5.31
ZZZZZZ	1141597	7.76	904266	10.85	488652	13.20	58186	5.30
FA34224-7	1098933	7.76	886943	10.85	472624	13.21	55751	5.30
FA34224-6	1095828	7.76	885788	10.85	462659	13.20	56679	5.29
ZZZZZZ	1067417	7.76	849401	10.85	468122	13.21	60666	5.30
ZZZZZZ	1057280	7.76	845435	10.85	460940	13.20	57935	5.30
ZZZZZZ	1056899	7.76	858835	10.85	450903	13.21	56112	5.30
ZZZZZZ	1076289	7.76	851642	10.85	452262	13.21	58182	5.29
FA34111-1	1072081	7.76	871020	10.85	453216	13.21	61821	5.30
ZZZZZZ	1067980	7.76	846657	10.85	445621	13.21	63651	5.30
ZZZZZZ	1042197	7.76	843883	10.85	438474	13.21	63743	5.30
ZZZZZZ	1076077	7.76	880702	10.85	476172	13.20	66824	5.30
ZZZZZZ	1135373	7.76	881630	10.85	471377	13.20	74437	5.30
FA34111-1MS	1179570	7.76	982554	10.85	562306	13.20	88589	5.30
FA34111-1MSD	1213636	7.76	1026631	10.85	580681	13.20	89858	5.30
VJ5315-ECC5312	1300595	7.76	1062318	10.85	595144	13.20	84041	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: FA34224
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, Humacao, PR

Check Std:	VJ5315-CC5312	**Injection Date:**	05/26/16
Lab File ID:	J0976813.D	**Injection Time:**	09:10
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: VJ5312-ICC5312 J0976757.D 05/24/16 12:04
(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: FA34224
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, Humacao, PR

Check Std:	VY1166-CC1149	**Injection Date:**	05/26/16
Lab File ID:	Y28863.D	**Injection Time:**	09:07
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]	1192375	7.12	804702	10.31	369242	12.68	148993	4.62
Upper Limit [c]	2384750	7.62	1609404	10.81	738484	13.18	297986	5.12
Lower Limit [d]	596188	6.62	402351	9.81	184621	12.18	74497	4.12

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT
VY1167-BS	1148969	7.12	755864	10.31	339221	12.68	112179	4.63
VY1166-BS	1148969	7.12	755864	10.31	339221	12.68	112179	4.63
VY1167-MB	1118196	7.12	688163	10.31	287366	12.68	132354	4.66
VY1166-MB	1118196	7.12	688163	10.31	287366	12.68	132354	4.66
ZZZZZZ	1128028	7.12	795224	10.31	356321	12.67	122525	4.66
FA34224-3	1173671	7.12	735580	10.31	327524	12.68	141751	4.62
FA34224-4	1251818	7.12	801777	10.31	359491	12.68	156381	4.63
FA34224-5	1376958	7.12	826653	10.31	371857	12.68	180451	4.63
ZZZZZZ	1107468	7.12	716611	10.31	328554	12.67	156713	4.63
FA34192-5	1101599	7.12	762348	10.31	365631	12.68	144349	4.62
FA34192-5MS	1276254	7.12	853135	10.31	422846	12.68	173016	4.63
FA34192-5MSD	1298685	7.12	885456	10.31	432161	12.68	154469	4.63
FA34266-1	1192692	7.12	813881	10.31	393828	12.68	277641	4.62
ZZZZZZ	1088419	7.12	729168	10.31	346327	12.68	325011*	4.62
ZZZZZZ	1255863	7.12	843161	10.31	396625	12.68	235992	4.62
ZZZZZZ	968154	7.12	379159*	10.31	64763*	12.68	212012	4.63
FA34266-1MS	1181823	7.12	783267	10.31	350551	12.68	163314	4.63
FA34266-1MSD	1159131	7.12	760613	10.31	344781	12.68	153429	4.63
ZZZZZZ	1036220	7.12	673416	10.31	286702	12.68	184668	4.63
ZZZZZZ	1077253	7.12	701049	10.31	301989	12.68	277691	4.62
VY1167-ECC11491	153845	7.12	775338	10.31	344918	12.68	154512	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: FA34224
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
FA34224-1	J0976816.D	102	104	102	105
FA34224-2	J0976817.D	101	102	100	103
FA34224-6	J0976827.D	101	102	102	103
FA34224-6	J0976818.D	102	102	102	105
FA34224-7	J0976826.D	101	103	103	103
FA34224-8	J0976820.D	102	104	105	102
FA34224-9	J0976821.D	103	106	103	103
FA34224-1MS	J0976822.D	100	101	98	100
FA34224-1MSD	J0976823.D	100	98	98	100
VJ5316-BS	J0976814.D	101	101	100	101
VJ5316-MB	J0976815.D	99	102	103	104

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: FA34224
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
FA34224-3	Y28868.D	99	107	99	102
FA34224-4	Y28869.D	99	103	99	106
FA34224-5	Y28870.D	98	109	102	105
FA34192-5MS	Y28874.D	99	102	100	102
FA34192-5MSD	Y28875.D	97	98	99	108
VY1166-BS	Y28864.D	100	105	101	102
VY1166-MB	Y28865.D	106	115	104	99

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: FA34224
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, Humacao, PR
Sample: VJ5312-ICC5312
Lab FileID: J0976757.D

Response Factor Report MSVOA6

```
Method       : C:\msdchem\2\methods\MSJ052316a.M (RTE Integrator)
Title        : SW-846 Method 5030B/8260B & EPA 624
Last Update  : Wed May 25 09:12:25 2016
Response via : Initial Calibration

Calibration Files
1   =J0976753.D  2   =J0976754.D  3   =J0976755.D  4   =J0976756.D
5   =J0976757.D  6   =J0976758.D  7   =J0976759.D

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

1) I   Fluorobenzene         ----------------ISTD---------------------
2)  Dichlorodifluorom 0.286 0.418 0.324 0.302 0.322 0.347 0.342 0.334  12.82
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9987
              Response Ratio = 0.00000 + 0.31843 *A + 0.01308 *A^2

3)P Chloromethane     0.515 0.469 0.380 0.344 0.366 0.371 0.365 0.402  15.99
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9994
              Response Ratio = 0.00000 + 0.36664 *A + -0.00015 *A^2

4)C Vinyl Chloride    0.436 0.495 0.393 0.361 0.362 0.364 0.351 0.395  13.48
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9995
              Response Ratio = 0.00000 + 0.37861 *A + -0.01353 *A^2

5)  1,3-Butadiene     0.199 0.179 0.180 0.162 0.133 0.162 0.152 0.167  12.92
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9939
              Response Ratio = 0.00000 + 0.15347 *A + -0.00004 *A^2

6)  Bromomethane      0.524 0.369 0.277 0.219 0.207 0.180 0.163 0.277  46.55
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9983
              Response Ratio = 0.00000 + 0.23893 *A + -0.03859 *A^2

7)  Chloroethane      0.242 0.261 0.201 0.169 0.154 0.117       0.191  28.71
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9984
              Response Ratio = 0.00000 + 0.20555 *A + -0.06380 *A^2

8)  Trichlorofluorome 0.505 0.602 0.488 0.463 0.471 0.486 0.461 0.496   9.87
9)  Ethyl Ether       0.271 0.196 0.198 0.214 0.221 0.220 0.215 0.219  11.37
10)  1,2-Dichlorotrifl 0.392 0.325 0.322 0.336 0.335 0.351 0.337 0.343   6.93
11)C 1,1-Dichloroethen 0.498 0.397 0.406 0.419 0.413 0.442 0.421 0.428   7.94
12)  Freon 113        0.325 0.284 0.287 0.289 0.295 0.311 0.301 0.299   4.99
13)  Carbon Disulfide 1.247 0.897 0.902 0.944 0.964 1.029 0.980 0.995  12.09
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9986
              Response Ratio = 0.00000 + 0.99016 *A + 0.00017 *A^2

14)  Iodomethane      0.600 0.440 0.435 0.460 0.479 0.499 0.487 0.486  11.41
15)  Allyl chloride   0.346 0.353 0.364 0.382 0.349 0.393 0.383 0.367   5.18
16)  Methylene Chlorid 0.726 0.409 0.377 0.374 0.372 0.361 0.341 0.423  31.96
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9998
              Response Ratio = 0.00000 + 0.39484 *A + -0.02650 *A^2

17)  Acetone          0.035 0.020 0.017 0.017 0.016 0.017 0.016 0.020  33.66
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9994
              Response Ratio = 0.00000 + 0.01745 *A + -0.00012 *A^2

18)  Methyl acetate   0.028 0.027 0.027 0.030 0.032 0.032 0.032 0.030   7.51
19)  trans-1,2-Dichlor 0.483 0.361 0.352 0.385 0.375 0.390 0.378 0.389  11.22
```

```
              ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9996
                Response Ratio = 0.00000 + 0.38576 *A + -0.00271 *A^2

20)  Hexane            0.274 0.242 0.251 0.257 0.254 0.262 0.250 0.256   4.06
21)  Methyl Tert Butyl 0.825 0.670 0.674 0.744 0.776 0.776 0.760 0.746   7.57
22)  Acetonitrile      0.023 0.012 0.012 0.011 0.011 0.011 0.011 0.013  35.10
              ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9997
                Response Ratio = 0.00000 + 0.01153 *A + -0.00005 *A^2

23)  Di-isopropyl ethe 0.921 0.738 0.764 0.837 0.872 0.870 0.849 0.836   7.65
24)  Chloroprene       0.362 0.361 0.368 0.416 0.359 0.453 0.439 0.394  10.37
              ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9953
                Response Ratio = 0.00000 + 0.38136 *A + 0.03218 *A^2

25)P 1,1-Dichloroethan 0.668 0.486 0.482 0.506 0.506 0.511 0.496 0.522  12.51
              ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9998
                Response Ratio = 0.00000 + 0.51749 *A + -0.00992 *A^2

26)  Acrylonitrile     0.047 0.074 0.066 0.068 0.076 0.066 0.067 0.066  14.54
              ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9973
                Response Ratio = 0.00000 + 0.07316 *A + -0.00071 *A^2

27)  ETBE              0.866 0.761 0.799 0.868 0.904 0.901 0.872 0.853   6.24
28)  Vinyl acetate     0.408 0.457 0.424 0.461 0.482 0.417 0.393 0.435   7.48
29)  cis-1,2-Dichloroe 0.393 0.295 0.297 0.322 0.331 0.339 0.333 0.330   9.88
30)  2,2-Dichloropropa 0.493 0.399 0.384 0.404 0.416 0.429 0.421 0.421   8.40
31)  Bromochloromethan 0.162 0.136 0.134 0.148 0.153 0.153 0.151 0.148   6.66
32)  Cyclohexane       0.434 0.420 0.445 0.494 0.495 0.532 0.506 0.475   8.82
33)C Chloroform        0.731 0.516 0.509 0.552 0.546 0.553 0.537 0.563  13.51
              ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9997
                Response Ratio = 0.00000 + 0.55983 *A + -0.01041 *A^2

34)  Ethyl acetate     0.148 0.164 0.147 0.163 0.170 0.152 0.149 0.156   5.91
35)  Tetrahydrofuran   0.071 0.047 0.046 0.045 0.048 0.045 0.045 0.050  19.34
              ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9996
                Response Ratio = 0.00000 + 0.04666 *A + -0.00069 *A^2

36)S Dibromofluorometh 0.255 0.254 0.250 0.251 0.254 0.256 0.252 0.253   0.85
37)  Carbon Tetrachlor 0.457 0.394 0.392 0.411 0.414 0.442 0.420 0.418   5.66
38)  1,1,1-Trichloroet 0.585 0.450 0.452 0.487 0.489 0.506 0.495 0.495   9.12
39)  2-Butanone        0.082 0.065 0.064 0.066 0.067 0.067 0.066 0.068   9.15
40)  1,1-Dichloroprope 0.407 0.338 0.358 0.390 0.387 0.407 0.391 0.383   6.63
41)  tert-Butyl Format 0.159 0.142 0.192 0.182 0.194 0.200 0.180 0.179  11.66
              ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9974
                Response Ratio = 0.00000 + 0.20694 *A + -0.00119 *A^2

42)  Propionitrile     0.026 0.026 0.025 0.026 0.026 0.024 0.024 0.025   4.29
43)  Methacrylonitrile 0.134 0.125 0.111 0.108 0.100 0.094 0.089 0.109  15.16
              ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9998
                Response Ratio = 0.00000 + 0.10943 *A + -0.00106 *A^2

44)  Benzene           1.437 1.102 1.129 1.208 1.193 1.203 1.135 1.201   9.32
45)  TAME              0.796 0.706 0.710 0.782 0.822 0.828 0.806 0.779   6.50
46)S 1,2-Dichloroethan 0.300 0.299 0.292 0.282 0.278 0.278 0.269 0.285   4.11
47)  1,2-Dichloroethan 0.542 0.370 0.356 0.369 0.365 0.355 0.346 0.386  17.93
              ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9999
                Response Ratio = 0.00000 + 0.37561 *A + -0.01501 *A^2

48)  Trichloroethene   0.384 0.270 0.281 0.310 0.304 0.312 0.298 0.308  11.87
49)  Methylcyclohexane 0.489 0.474 0.502 0.539 0.550 0.590 0.559 0.529   7.89
```

```
50)  Dibromomethane    0.177 0.150 0.152 0.158 0.162 0.163 0.158 0.160   5.64
51)C 1,2-Dichloropropa 0.357 0.264 0.263 0.290 0.299 0.294 0.286 0.293  10.65
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9997
              Response Ratio = 0.00000 + 0.30101 *A + -0.00676 *A^2

52)  Bromodichlorometh 0.425 0.347 0.351 0.386 0.387 0.386 0.379 0.380   6.79
53)  Methyl methacryla 0.097 0.118 0.127 0.149 0.146 0.148 0.148 0.133  15.07
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9998
              Response Ratio = 0.00000 + 0.14528 *A + 0.00139 *A^2

54)  2-Chloroethyl vin       0.107 0.141 0.141 0.145 0.147 0.142 0.137  11.00
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9995
              Response Ratio = 0.00000 + 0.14783 *A + -0.00052 *A^2

55)  cis-1,3-Dichlorop 0.384 0.371 0.394 0.451 0.469 0.467 0.454 0.427   9.89

56) I   Chlorobenzene-d5      ----------------ISTD--------------------
57)S Toluene-d8        1.313 1.289 1.275 1.256 1.260 1.234 1.225 1.264   2.43
58)C Toluene           2.395 1.499 1.525 1.572 1.553 1.511 1.426 1.640  20.49
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9998
              Response Ratio = 0.00000 + 1.64254 *A + -0.10588 *A^2

59)  2-Nitropropane    0.055 0.047 0.047 0.053 0.054 0.052 0.052 0.051   6.73
60)  4-Methyl-2-pentan 0.191 0.172 0.202 0.208 0.200 0.198 0.190 0.194   5.92
61)  trans-1,3-Dichlor 0.438 0.393 0.406 0.460 0.478 0.468 0.464 0.444   7.37
62)  Tetrachloroethene 0.460 0.362 0.357 0.391 0.405 0.431 0.397 0.401   9.08
63)  Ethyl methacrylat 0.189 0.274 0.305 0.359 0.357 0.362 0.364 0.316  20.86
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9998
              Response Ratio = 0.00000 + 0.35001 *A + 0.00746 *A^2

64)  1,1,2-Trichloroet 0.267 0.236 0.238 0.252 0.257 0.245 0.241 0.248   4.52
65)  Dibromochlorometh 0.353 0.281 0.285 0.325 0.346 0.341 0.337 0.324   9.01
66)  1,3-Dichloropropa 0.605 0.459 0.465 0.501 0.512 0.495 0.485 0.503   9.69
67)  1,2-Dibromoethane 0.316 0.246 0.251 0.277 0.290 0.284 0.283 0.278   8.53
68)  2-hexanone        0.107 0.118 0.135 0.144 0.139 0.140 0.136 0.131  10.38
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9998
              Response Ratio = 0.00000 + 0.14403 *A + -0.00078 *A^2

69)  1-Chlorohexane    0.401 0.377 0.434 0.497 0.501 0.528 0.508 0.464  12.73
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9990
              Response Ratio = 0.00000 + 0.50752 *A + 0.00282 *A^2

70)C Ethylbenzene      2.367 1.701 1.733 1.814 1.810 1.727 1.582 1.819  13.94
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9996
              Response Ratio = 0.00000 + 1.95202 *A + -0.18049 *A^2

71)P Chlorobenzene     1.525 0.973 0.991 1.052 1.067 1.041 0.989 1.091  17.82
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9997
              Response Ratio = 0.00000 + 1.10733 *A + -0.05679 *A^2

72)  1,1,1,2-Tetrachlo 0.395 0.311 0.314 0.354 0.361 0.356 0.351 0.349   8.22
            ---- Linear regr., Force(0,0) ----  Coefficient =  0.9996
              Response Ratio = 0.00000 + 0.35347 *A

73)  m,p-Xylene        1.570 1.237 1.337 1.380 1.360 1.245 1.087 1.317  11.39
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9995
              Response Ratio = 0.00000 + 1.52634 *A + -0.10809 *A^2

74)  o-Xylene          1.357 1.156 1.261 1.412 1.437 1.412 1.329 1.338   7.51
75)  Styrene           0.896 0.817 0.940 1.097 1.142 1.146 1.098 1.019  13.00
```

```
              ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9992
                Response Ratio = 0.00000 + 1.15065 *A + -0.02213 *A^2

 76)P Bromoform         0.192 0.173 0.173 0.199 0.217 0.222 0.220 0.199  10.72
              ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9992
                Response Ratio = 0.00000 + 0.20798 *A + 0.00700 *A^2

 77)  Isopropylbenzene  1.480 1.346 1.524 1.700 1.716 1.684 1.554 1.572   8.68

 78) I   1,4-Dichlorobenzene-d ----------------ISTD---------------------
 79)S 4-Bromofluorobenz 0.940 0.941 0.939 0.913 0.900 0.916 0.903 0.922   1.96
 80)  cis-1,4-Dichloro- 0.137 0.107 0.123 0.148 0.144 0.154 0.153 0.138  12.45
              ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9994
                Response Ratio = 0.00000 + 0.14184 *A + 0.00619 *A^2

 81)  n-Propylbenzene   3.997 3.352 3.494 3.718 3.534 3.512 3.121 3.533   7.78
 82)  Bromobenzene      1.018 0.783 0.776 0.832 0.818 0.842 0.814 0.840   9.74
 83)P 1,1,2,2-Tetrachlo 0.685 0.663 0.630 0.643 0.631 0.626 0.611 0.641   3.91
 84)  1,3,5-Trimethylbe 2.601 2.330 2.509 2.776 2.714 2.724 2.498 2.593   6.11
 85)  2-Chlorotoluene   3.076 2.484 2.499 2.591 2.515 2.527 2.310 2.572   9.27
 86)  trans-1,4-Dichlor 0.081 0.092 0.114 0.135 0.133 0.144 0.140 0.120  20.76
              ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9988
                Response Ratio = 0.00000 + 0.13448 *A + 0.00337 *A^2

 87)  1,2,3-Trichloropr 0.153 0.173 0.153 0.173 0.169 0.165 0.165 0.164   5.05
 88)  Cyclohexanone     0.019 0.018 0.016 0.018 0.019 0.019 0.017 0.018   6.21
 89)  4-Chlorotoluene   2.658 2.073 2.173 2.399 2.338 2.353 2.203 2.314   8.24
 90)  a-Methyl Styrene  0.980 1.139 1.299 1.503 1.422 1.549 1.493 1.341  15.88
              ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9987
                Response Ratio = 0.00000 + 1.47384 *A + 0.01653 *A^2

 91)  tert-Butylbenzene 1.594 1.390 1.467 1.545 1.492 1.537 1.461 1.498   4.48
 92)  1,2,4-Trimethylbe 2.559 2.418 2.540 2.781 2.709 2.685 2.478 2.596   5.10
 93)  Pentachloroethane 0.525 0.497 0.491 0.531 0.475 0.496 0.524 0.506   4.21
 94)  sec-Butylbenzene  3.100 2.884 3.138 3.367 3.222 3.229 2.932 3.125   5.47
 95)  4-Isopropyltoluen 3.037 2.411 2.618 2.859 2.794 2.812 2.556 2.727   7.72
 96)  1,3-Dichlorobenze 1.664 1.361 1.343 1.473 1.453 1.462 1.409 1.452   7.31
 97)  1,4-Dichlorobenze 2.104 1.456 1.438 1.513 1.493 1.497 1.433 1.562  15.44
              ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9997
                Response Ratio = 0.00000 + 1.55581 *A + -0.05833 *A^2

 98)  n-Butylbenzene    1.344 1.274 1.432 1.601 1.565 1.632 1.552 1.486   9.24
 99)  Benzyl Chloride   0.177 0.161 0.173 0.214 0.231 0.243 0.248 0.207  17.40
              ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9994
                Response Ratio = 0.00000 + 0.21388 *A + 0.01759 *A^2

100)  1,2-Dichlorobenze 1.618 1.245 1.245 1.370 1.352 1.352 1.303 1.355   9.36
101)  1,2-Dibromo-3-Chl 0.069 0.075 0.070 0.085 0.090 0.090 0.088 0.081  11.59
              ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9993
                Response Ratio = 0.00000 + 0.08880 *A + -0.00007 *A^2

102)  Hexachlorobutadie 0.860 0.550 0.536 0.597 0.590 0.640 0.625 0.628  17.27
              ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9990
                Response Ratio = 0.00000 + 0.59628 *A + 0.01716 *A^2

103)  1,2,4-Trichlorobe 1.010 0.787 0.771 0.890 0.949 0.966 0.935 0.901  10.10
104)  Naphthalene       1.112 0.906 0.994 1.271 1.379 1.426 1.400 1.213  17.28
              ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9988
                Response Ratio = 0.00000 + 1.32431 *A + 0.04427 *A^2
```

Initial Calibration Summary

Job Number: FA34224 **Sample:** VJ5312-ICC5312
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** J0976757.D
Project: BMSMC, Building 5 Area, Humacao, PR

```
105)  1,2,3-Trichlorobe 0.909 0.662 0.672 0.757 0.786 0.801 0.795 0.769  10.95
             ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9997
               Response Ratio = 0.00000 + 0.76964 *A + 0.01455 *A^2


106) I   Tert Butyl Alcohol-d1 ----------------ISTD---------------------
107)  Ethanol                 0.157 0.150 0.143 0.136 0.133 0.123 0.140   8.61
108)  acrolein          1.897 2.079 2.110 2.277 2.152 2.196 2.022 2.105   5.84
109)  Tert Butyl Alcoho 1.764 1.321 1.262 1.235 1.244 1.229 1.134 1.313  15.74
             ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9994
               Response Ratio = 0.00000 + 1.33569 *A + -0.04845 *A^2

110)  tert Amyl alcohol 0.902 0.887 0.894 0.940 0.962 0.953 0.918 0.922   3.23
111)  Isobutyl alcohol  0.375 0.437 0.469 0.441 0.394 0.380 0.359 0.408  10.05
112)  1,4-Dioxane       0.099 0.111 0.141 0.140 0.147 0.141 0.137 0.131  13.83
             ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9997
               Response Ratio = 0.00000 + 0.14844 *A + -0.00142 *A^2

113)  3,3-Dimethyl-1-bu 0.715 0.641 0.994 1.019 1.055 1.146 1.001 0.939  19.85
             ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9948
               Response Ratio = 0.00000 + 1.15610 *A + -0.00661 *A^2

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

          MSJ052316a.M        Wed May 25 09:38:21 2016
```

Initial Calibration Verification

Job Number: FA34224 **Sample:** VJ5312-ICV5312
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** J0976761.D
Project: BMSMC, Building 5 Area, Humacao, PR

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\2\data\052416\J0976761.D          Vial: 9
Acq On    : 24 May 2016   1:36 pm                    Operator: DARSHNAP
Sample    : icv5312-5                                Inst    : MSVOA6
Misc      : MS33959,VJ5312,,,,,                      Multiplr: 1.00
MS Integration Params: RTEINT.P

Method       : C:\msdchem\2\methods\MSJ052316a.M (RTE Integrator)
Title        : SW-846 Method 5030B/8260B & EPA 624
Last Update  : Wed May 25 09:12:25 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	104	0.00	7.76
			Amount	Calc.	%Drift			
2		Dichlorodifluoromethane	40.000	38.980	2.6	103	0.00	2.69
3	P	Chloromethane	40.000	37.364	6.6	97	0.00	2.91
4	C	Vinyl Chloride	40.000	37.447	6.4	99	0.00	3.05
5		1,3-Butadiene	40.000	2.753	93.1#	8	-0.01	3.03
6		Bromomethane	40.000	37.833	5.4	99	0.00	3.46
7		Chloroethane	40.000	36.380	9.0	98	0.00	3.62
			AvgRF	CCRF	%Dev			
8		Trichlorofluoromethane	0.496	0.456	8.1	100	0.00	3.84
9		Ethyl Ether	0.219	0.206	5.9	97	0.00	4.12
10		1,2-Dichlorotrifluoroetha	0.343	0.346	-0.9	107	0.00	4.36
11	C	1,1-Dichloroethene	0.428	0.433	-1.2	109	0.00	4.40
12		Freon 113	0.299	0.261	12.7	92	0.00	4.47
			Amount	Calc.	%Drift			
13		Carbon Disulfide	40.000	35.809	10.5	95	0.00	4.47
			AvgRF	CCRF	%Dev			
14		Iodomethane	0.486	0.447	8.0	97	0.00	4.59
15		Allyl chloride	0.367	0.326	11.2	97	0.00	4.92
			Amount	Calc.	%Drift			
16		Methylene Chloride	40.000	40.588	-1.5	105	0.00	5.04
17		Acetone	200.000	189.081	5.5	101	0.00	5.07
			AvgRF	CCRF	%Dev			
18		Methyl acetate	0.030	0.032	-6.7	104	0.00	5.19
			Amount	Calc.	%Drift			
19		trans-1,2-Dichloroethene	40.000	43.856	-9.6	116	0.00	5.23
			AvgRF	CCRF	%Dev			
20		Hexane	0.256	0.234	8.6	96	0.00	5.30
21		Methyl Tert Butyl Ether	0.746	0.741	0.7	99	0.00	5.33
			Amount	Calc.	%Drift			
22		Acetonitrile	400.000	350.877	12.3	94	0.00	5.59
			AvgRF	CCRF	%Dev			

Initial Calibration Verification

Job Number: FA34224 **Sample:** VJ5312-ICV5312
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** J0976761.D
Project: BMSMC, Building 5 Area, Humacao, PR

23		Di-isopropyl ether	0.836	0.821	1.8	98	0.00	5.71
		----------	Amount	Calc.	%Drift		----------	
24		Chloroprene	40.000	36.089	9.8	105	0.00	5.87
25	P	1,1-Dichloroethane	40.000	41.714	-4.3	109	0.00	5.89
26		Acrylonitrile	200.000	202.337	-1.2	97	0.00	5.92
		----------	AvgRF	CCRF	%Dev		----------	
27		ETBE	0.853	0.830	2.7	95	0.00	6.11
28		Vinyl acetate	0.435	0.389	10.6	84	0.00	6.11
29		cis-1,2-Dichloroethene	0.330	0.322	2.4	101	0.00	6.47
30		2,2-Dichloropropane	0.421	0.445	-5.7	111	0.00	6.61
31		Bromochloromethane	0.148	0.143	3.4	97	0.00	6.69
32		Cyclohexane	0.475	0.470	1.1	98	0.00	6.73
		----------	Amount	Calc.	%Drift		----------	
33	C	Chloroform	40.000	39.786	0.5	104	0.00	6.74
		----------	AvgRF	CCRF	%Dev		----------	
34		Ethyl acetate	0.156	0.155	0.6	95	0.00	6.81
		----------	Amount	Calc.	%Drift		----------	
35		Tetrahydrofuran	40.000	39.242	1.9	99	0.00	6.92
		----------	AvgRF	CCRF	%Dev		----------	
36	S	Dibromofluoromethane	0.253	0.252	0.4	103	0.00	6.93
37		Carbon Tetrachloride	0.418	0.427	-2.2	107	0.00	6.93
38		1,1,1-Trichloroethane	0.495	0.469	5.3	100	0.00	7.00
39		2-Butanone	0.068	0.069	-1.5	107	0.00	7.02
40		1,1-Dichloropropene	0.383	0.379	1.0	102	0.00	7.10
		----------	Amount	Calc.	%Drift		----------	
41		tert-Butyl Formate	400.000	399.202	0.2	105	0.00	7.18
		----------	AvgRF	CCRF	%Dev		----------	
42		Propionitrile	0.025	0.025	0.0	100	0.00	7.33
		----------	Amount	Calc.	%Drift		----------	
43		Methacrylonitrile	400.000	397.894	0.5	105	0.00	7.36
		----------	AvgRF	CCRF	%Dev		----------	
44		Benzene	1.201	1.182	1.6	103	0.00	7.36
45		TAME	0.779	0.760	2.4	96	0.00	7.43
46	S	1,2-Dichloroethane-d4	0.285	0.275	3.5	103	0.00	7.48
		----------	Amount	Calc.	%Drift		----------	
47		1,2-Dichloroethane	40.000	41.530	-3.8	107	0.00	7.55
		----------	AvgRF	CCRF	%Dev		----------	
48		Trichloroethene	0.308	0.313	-1.6	107	0.00	7.94
49		Methylcyclohexane	0.529	0.538	-1.7	101	0.00	7.96
50		Dibromomethane	0.160	0.170	-6.3	109	0.00	8.36
		----------	Amount	Calc.	%Drift		----------	
51	C	1,2-Dichloropropane	40.000	40.048	-0.1	103	0.00	8.45
		----------	AvgRF	CCRF	%Dev		----------	
52		Bromodichloromethane	0.380	0.398	-4.7	107	0.00	8.49
		----------	Amount	Calc.	%Drift		----------	

Initial Calibration Verification

Job Number: FA34224 **Sample:** VJ5312-ICV5312
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** J0976761.D
Project: BMSMC, Building 5 Area, Humacao, PR

53		Methyl methacrylate	40.000	42.278	-5.7	110	0.00	8.59
54		2-Chloroethyl vinyl ether	200.000	207.434	-3.7	108	0.00	9.01
		----------	AvgRF	CCRF	%Dev	----------		
55		cis-1,3-Dichloropropene	0.427	0.485	-13.6	107	0.00	9.11
56	I	Chlorobenzene-d5	1.000	1.000	0.0	104	0.00	10.85
57	S	Toluene-d8	1.264	1.246	1.4	103	0.00	9.30
		----------	Amount	Calc.	%Drift	----------		
58	C	Toluene	40.000	40.156	-0.4	105	0.00	9.36
		----------	AvgRF	CCRF	%Dev	----------		
59		2-Nitropropane	0.051	0.052	-2.0	100	0.00	9.56
60		4-Methyl-2-pentanone	0.194	0.203	-4.6	106	0.00	9.67
61		trans-1,3-Dichloropropene	0.444	0.525	-18.2	115	0.00	9.73
62		Tetrachloroethene	0.401	0.396	1.2	102	0.00	9.76
		----------	Amount	Calc.	%Drift	----------		
63		Ethyl methacrylate	40.000	35.895	10.3	93	0.00	9.84
		----------	AvgRF	CCRF	%Dev	----------		
64		1,1,2-Trichloroethane	0.248	0.262	-5.6	106	0.00	9.90
65		Dibromochloromethane	0.324	0.353	-9.0	107	0.00	10.10
66		1,3-Dichloropropane	0.503	0.498	1.0	101	0.00	10.18
67		1,2-Dibromoethane	0.278	0.294	-5.8	106	0.00	10.36
		----------	Amount	Calc.	%Drift	----------		
68		2-hexanone	200.000	200.510	-0.3	106	0.00	10.49
69		1-Chlorohexane	40.000	37.817	5.5	101	0.00	10.80
70	C	Ethylbenzene	40.000	39.661	0.8	104	0.00	10.86
71	P	Chlorobenzene	40.000	40.372	-0.9	105	0.00	10.86
72		1,1,1,2-Tetrachloroethane	40.000	42.596	-6.5	109	0.00	10.91
73		m,p-Xylene	80.000	82.307	-2.9	107	0.00	11.00
		----------	AvgRF	CCRF	%Dev	----------		
74		o-Xylene	1.338	1.464	-9.4	106	0.00	11.44
		----------	Amount	Calc.	%Drift	----------		
75		Styrene	40.000	40.549	-1.4	105	0.00	11.48
76	P	Bromoform	40.000	42.685	-6.7	110	0.00	11.55
		----------	AvgRF	CCRF	%Dev	----------		
77		Isopropylbenzene	1.572	1.760	-12.0	107	0.00	11.74
78	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	101	0.00	13.20
79	S	4-Bromofluorobenzene	0.922	0.921	0.1	104	0.00	12.05
		----------	Amount	Calc.	%Drift	----------		
80		cis-1,4-Dichloro-2-butene	40.000	39.625	0.9	103	0.00	12.09
		----------	AvgRF	CCRF	%Dev	----------		
81		n-Propylbenzene	3.533	3.758	-6.4	108	0.00	12.16
82		Bromobenzene	0.840	0.855	-1.8	106	0.00	12.18
83	P	1,1,2,2-Tetrachloroethane	0.641	0.659	-2.8	106	0.00	12.22
84		1,3,5-Trimethylbenzene	2.593	2.742	-5.7	102	0.00	12.34
85		2-Chlorotoluene	2.572	2.626	-2.1	106	0.00	12.35
		----------	Amount	Calc.	%Drift	----------		
86		trans-1,4-Dichloro-2-Bute	40.000	42.339	-5.8	110	0.00	12.40

		AvgRF	CCRF	%Dev			
87	1,2,3-Trichloropropane	0.164	0.177	-7.9	106	0.00	12.38
88	Cyclohexanone	0.018	0.020	-11.1	105	0.00	12.45
89	4-Chlorotoluene	2.314	2.456	-6.1	106	0.00	12.52

		Amount	Calc.	%Drift			
90	a-Methyl Styrene	40.000	0.780	98.0#	2	0.15	12.75

		AvgRF	CCRF	%Dev			
91	tert-Butylbenzene	1.498	1.513	-1.0	103	0.00	12.68
92	1,2,4-Trimethylbenzene	2.596	2.771	-6.7	104	0.00	12.75
93	Pentachloroethane	0.506	0.525	-3.8	112	0.00	12.74
94	sec-Butylbenzene	3.125	3.384	-8.3	106	0.00	12.87
95	4-Isopropyltoluene	2.727	2.890	-6.0	105	0.00	13.00
96	1,3-Dichlorobenzene	1.452	1.521	-4.8	106	0.00	13.13

		Amount	Calc.	%Drift			
97	1,4-Dichlorobenzene	40.000	40.859	-2.1	104	0.00	13.22

		AvgRF	CCRF	%Dev			
98	n-Butylbenzene	1.486	1.596	-7.4	103	0.00	13.43

		Amount	Calc.	%Drift			
99	Benzyl Chloride	40.000	43.263	-8.2	108	0.00	13.44

		AvgRF	CCRF	%Dev			
100	1,2-Dichlorobenzene	1.355	1.398	-3.2	105	0.00	13.64

		Amount	Calc.	%Drift			
101	1,2-Dibromo-3-Chloropropa	40.000	40.459	-1.1	101	0.00	14.38
102	Hexachlorobutadiene	40.000	39.335	1.7	103	0.00	14.93

		AvgRF	CCRF	%Dev			
103	1,2,4-Trichlorobenzene	0.901	0.950	-5.4	101	0.00	14.97

		Amount	Calc.	%Drift			
104	Naphthalene	40.000	44.518	-11.3	111	0.00	15.26
105	1,2,3-Trichlorobenzene	40.000	40.210	-0.5	101	0.00	15.43

		AvgRF	CCRF	%Dev			
106 I	Tert Butyl Alcohol-d10	1.000	1.000	0.0	101	0.00	5.30
107	Ethanol	0.140	0.135	3.6	100	0.00	4.29
108	acrolein	2.105	2.326	-10.5	110	0.00	4.76

		Amount	Calc.	%Drift			
109	Tert Butyl Alcohol	400.000	375.021	6.2	97	-0.01	5.37

		AvgRF	CCRF	%Dev			
110	tert Amyl alcohol	0.922	0.990	-7.4	104	0.00	7.57
111	Isobutyl alcohol	0.408	0.385	5.6	99	0.00	7.46

		Amount	Calc.	%Drift			
112	1,4-Dioxane	800.000	808.597	-1.1	100	0.00	8.67
113	3,3-Dimethyl-1-butanol	2000.000	1893.924	5.3	101	0.00	10.43

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Initial Calibration Verification

Job Number: FA34224
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, Humacao, PR

Sample: VJ5312-ICV5312
Lab FileID: J0976761.D

J0976757.D MSJ052316a.M Wed May 25 09:38:06 2016

Continuing Calibration Summary

Job Number: FA34224 **Sample:** VJ5315-CC5312
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** J0976813.D
Project: BMSMC, Building 5 Area, Humacao, PR

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\2\data\052616\J0976813.D          Vial: 1
Acq On    : 26 May 2016   9:10 am                    Operator: DARSHNAP
Sample    : cc5312-5                                 Inst    : MSVOA6
Misc      : MS33990,VJ5315,,,,,                      Multiplr: 1.00
MS Integration Params: RTEINT.P

Method       : C:\msdchem\2\methods\MSJ052316a.M (RTE Integrator)
Title        : SW-846 Method 5030B/8260B & EPA 624
Last Update  : Wed May 25 09:12:25 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	107	0.00	7.76
			Amount	Calc.	%Drift			
2		Dichlorodifluoromethane	40.000	37.041	7.4	101	0.01	2.71
3	P	Chloromethane	40.000	37.094	7.3	99	0.00	2.91
4	C	Vinyl Chloride	40.000	37.100	7.2	101	0.00	3.05
5		1,3-Butadiene	40.000	39.448	1.4	121	0.00	3.05
6		Bromomethane	40.000	39.380	1.5	106	0.00	3.47
7		Chloroethane	40.000	41.380	-3.5	110	0.00	3.62
			AvgRF	CCRF	%Dev			
8		Trichlorofluoromethane	0.496	0.449	9.5	102	0.00	3.84
9		Ethyl Ether	0.219	0.214	2.3	103	0.00	4.12
10		1,2-Dichlorotrifluoroetha	0.343	0.316	7.9	101	0.00	4.36
11	C	1,1-Dichloroethene	0.428	0.415	3.0	107	0.00	4.40
12		Freon 113	0.299	0.279	6.7	101	0.00	4.47
			Amount	Calc.	%Drift			
13		Carbon Disulfide	40.000	37.452	6.4	103	0.00	4.48
			AvgRF	CCRF	%Dev			
14		Iodomethane	0.486	0.476	2.1	106	0.00	4.59
15		Allyl chloride	0.367	0.385	-4.9	118	0.00	4.92
			Amount	Calc.	%Drift			
16		Methylene Chloride	40.000	38.628	3.4	104	0.00	5.05
17		Acetone	200.000	197.791	1.1	109	0.00	5.07
			AvgRF	CCRF	%Dev			
18		Methyl acetate	0.030	0.031	-3.3	104	0.00	5.19
			Amount	Calc.	%Drift			
19		trans-1,2-Dichloroethene	40.000	39.224	1.9	107	0.00	5.23
			AvgRF	CCRF	%Dev			
20		Hexane	0.256	0.248	3.1	104	0.00	5.30
21		Methyl Tert Butyl Ether	0.746	0.757	-1.5	104	0.00	5.34
			Amount	Calc.	%Drift			
22		Acetonitrile	400.000	381.759	4.6	105	0.00	5.59
			AvgRF	CCRF	%Dev			

Continuing Calibration Summary

Job Number: FA34224 **Sample:** VJ5315-CC5312
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** J0976813.D
Project: BMSMC, Building 5 Area, Humacao, PR

23		Di-isopropyl ether	0.836	0.855	-2.3	105	0.00	5.71
		----------	Amount	Calc.	%Drift		----------	
24		Chloroprene	40.000	40.650	-1.6	123	0.00	5.87
25	P	1,1-Dichloroethane	40.000	39.383	1.5	106	0.00	5.89
26		Acrylonitrile	200.000	193.707	3.1	96	0.00	5.92
		----------	AvgRF	CCRF	%Dev		----------	
27		ETBE	0.853	0.881	-3.3	104	0.00	6.11
28		Vinyl acetate	0.435	0.432	0.7	95	0.00	6.11
29		cis-1,2-Dichloroethene	0.330	0.329	0.3	106	0.00	6.47
30		2,2-Dichloropropane	0.421	0.417	1.0	107	0.00	6.61
31		Bromochloromethane	0.148	0.150	-1.4	105	0.00	6.69
32		Cyclohexane	0.475	0.486	-2.3	105	0.00	6.73
		----------	Amount	Calc.	%Drift		----------	
33	C	Chloroform	40.000	39.388	1.5	106	0.00	6.73
		----------	AvgRF	CCRF	%Dev		----------	
34		Ethyl acetate	0.156	0.155	0.6	97	0.00	6.80
		----------	Amount	Calc.	%Drift		----------	
35		Tetrahydrofuran	40.000	37.273	6.8	96	0.00	6.91
		----------	AvgRF	CCRF	%Dev		----------	
36	S	Dibromofluoromethane	0.253	0.257	-1.6	108	0.00	6.92
37		Carbon Tetrachloride	0.418	0.418	0.0	108	0.00	6.93
38		1,1,1-Trichloroethane	0.495	0.470	5.1	103	0.00	7.00
39		2-Butanone	0.068	0.066	2.9	105	0.00	7.02
40		1,1-Dichloropropene	0.383	0.379	1.0	105	0.00	7.10
		----------	Amount	Calc.	%Drift		----------	
41		tert-Butyl Formate	400.000	381.101	4.7	103	0.00	7.18
		----------	AvgRF	CCRF	%Dev		----------	
42		Propionitrile	0.025	0.025	0.0	103	0.00	7.33
		----------	Amount	Calc.	%Drift		----------	
43		Methacrylonitrile	400.000	400.357	-0.1	108	0.00	7.35
		----------	AvgRF	CCRF	%Dev		----------	
44		Benzene	1.201	1.163	3.2	104	0.00	7.35
45		TAME	0.779	0.808	-3.7	105	0.00	7.43
46	S	1,2-Dichloroethane-d4	0.285	0.280	1.8	108	0.00	7.48
		----------	Amount	Calc.	%Drift		----------	
47		1,2-Dichloroethane	40.000	39.634	0.9	105	0.00	7.54
		----------	AvgRF	CCRF	%Dev		----------	
48		Trichloroethene	0.308	0.297	3.6	104	0.00	7.93
49		Methylcyclohexane	0.529	0.543	-2.6	105	0.00	7.96
50		Dibromomethane	0.160	0.162	-1.3	107	0.00	8.36
		----------	Amount	Calc.	%Drift		----------	
51	C	1,2-Dichloropropane	40.000	38.959	2.6	103	0.00	8.45
		----------	AvgRF	CCRF	%Dev		----------	
52		Bromodichloromethane	0.380	0.382	-0.5	105	0.00	8.49
		----------	Amount	Calc.	%Drift		----------	

Continuing Calibration Summary

Job Number: FA34224 **Sample:** VJ5315-CC5312
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** J0976813.D
Project: BMSMC, Building 5 Area, Humacao, PR

53		Methyl methacrylate	40.000	41.372	-3.4	111	0.00	8.59
54		2-Chloroethyl vinyl ether	200.000	203.126	-1.6	109	0.00	9.00
		----------	AvgRF	CCRF	%Dev	----------		
55		cis-1,3-Dichloropropene	0.427	0.461	-8.0	105	0.00	9.11
56	I	Chlorobenzene-d5	1.000	1.000	0.0	107	0.00	10.85
57	S	Toluene-d8	1.264	1.250	1.1	106	0.00	9.30
		----------	Amount	Calc.	%Drift	----------		
58	C	Toluene	40.000	39.190	2.0	105	0.00	9.35
		----------	AvgRF	CCRF	%Dev	----------		
59		2-Nitropropane	0.051	0.052	-2.0	103	0.00	9.56
60		4-Methyl-2-pentanone	0.194	0.199	-2.6	107	0.00	9.67
61		trans-1,3-Dichloropropene	0.444	0.477	-7.4	107	0.00	9.73
62		Tetrachloroethene	0.401	0.376	6.2	99	0.00	9.76
		----------	Amount	Calc.	%Drift	----------		
63		Ethyl methacrylate	40.000	41.398	-3.5	110	0.00	9.84
		----------	AvgRF	CCRF	%Dev	----------		
64		1,1,2-Trichloroethane	0.248	0.243	2.0	101	0.00	9.90
65		Dibromochloromethane	0.324	0.333	-2.8	103	0.00	10.10
66		1,3-Dichloropropane	0.503	0.500	0.6	104	0.00	10.18
67		1,2-Dibromoethane	0.278	0.281	-1.1	104	0.00	10.36
		----------	Amount	Calc.	%Drift	----------		
68		2-hexanone	200.000	197.333	1.3	107	0.00	10.49
69		1-Chlorohexane	40.000	39.441	1.4	107	0.00	10.79
70	C	Ethylbenzene	40.000	38.695	3.3	104	0.00	10.86
71	P	Chlorobenzene	40.000	39.106	2.2	104	0.00	10.86
72		1,1,1,2-Tetrachloroethane	40.000	40.510	-1.3	106	0.00	10.91
73		m,p-Xylene	80.000	78.766	1.5	105	0.00	11.00
		----------	AvgRF	CCRF	%Dev	----------		
74		o-Xylene	1.338	1.425	-6.5	106	0.00	11.44
		----------	Amount	Calc.	%Drift	----------		
75		Styrene	40.000	40.084	-0.2	106	0.00	11.48
76	P	Bromoform	40.000	40.313	-0.8	106	0.00	11.55
		----------	AvgRF	CCRF	%Dev	----------		
77		Isopropylbenzene	1.572	1.674	-6.5	104	0.00	11.74
78	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	103	0.00	13.21
79	S	4-Bromofluorobenzene	0.922	0.936	-1.5	108	0.00	12.05
		----------	Amount	Calc.	%Drift	----------		
80		cis-1,4-Dichloro-2-butene	40.000	43.332	-8.3	115	0.00	12.09
		----------	AvgRF	CCRF	%Dev	----------		
81		n-Propylbenzene	3.533	3.570	-1.0	105	0.00	12.16
82		Bromobenzene	0.840	0.827	1.5	105	0.00	12.18
83	P	1,1,2,2-Tetrachloroethane	0.641	0.626	2.3	103	0.00	12.22
84		1,3,5-Trimethylbenzene	2.593	2.725	-5.1	104	0.00	12.34
85		2-Chlorotoluene	2.572	2.557	0.6	105	0.00	12.35
		----------	Amount	Calc.	%Drift	----------		
86		trans-1,4-Dichloro-2-Bute	40.000	42.731	-6.8	114	0.00	12.40

Continuing Calibration Summary

Job Number: FA34224 **Sample:** VJ5315-CC5312
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** J0976813.D
Project: BMSMC, Building 5 Area, Humacao, PR

		AvgRF	CCRF	%Dev			
87	1,2,3-Trichloropropane	0.164	0.168	-2.4	103	0.00	12.38
88	Cyclohexanone	0.018	0.018	0.0	97	0.00	12.45
89	4-Chlorotoluene	2.314	2.372	-2.5	105	0.00	12.52
		Amount	Calc.	%Drift			
90	a-Methyl Styrene	40.000	41.759	-4.4	113	0.00	12.60
		AvgRF	CCRF	%Dev			
91	tert-Butylbenzene	1.498	1.487	0.7	103	0.00	12.68
92	1,2,4-Trimethylbenzene	2.596	2.717	-4.7	104	0.00	12.75
93	Pentachloroethane	0.506	0.549	-8.5	120	0.00	12.74
94	sec-Butylbenzene	3.125	3.229	-3.3	104	0.00	12.87
95	4-Isopropyltoluene	2.727	2.808	-3.0	104	0.00	13.00
96	1,3-Dichlorobenzene	1.452	1.461	-0.6	104	0.00	13.13
		Amount	Calc.	%Drift			
97	1,4-Dichlorobenzene	40.000	38.966	2.6	102	0.00	13.22
		AvgRF	CCRF	%Dev			
98	n-Butylbenzene	1.486	1.553	-4.5	103	0.00	13.43
		Amount	Calc.	%Drift			
99	Benzyl Chloride	40.000	43.223	-8.1	111	0.00	13.44
		AvgRF	CCRF	%Dev			
100	1,2-Dichlorobenzene	1.355	1.326	2.1	101	0.00	13.64
		Amount	Calc.	%Drift			
101	1,2-Dibromo-3-Chloropropa	40.000	38.051	4.9	97	0.00	14.38
102	Hexachlorobutadiene	40.000	38.691	3.3	103	0.00	14.93
		AvgRF	CCRF	%Dev			
103	1,2,4-Trichlorobenzene	0.901	0.923	-2.4	101	0.00	14.97
		Amount	Calc.	%Drift			
104	Naphthalene	40.000	38.951	2.6	99	0.00	15.26
105	1,2,3-Trichlorobenzene	40.000	39.523	1.2	102	0.00	15.43
		AvgRF	CCRF	%Dev			
106 I	Tert Butyl Alcohol-d10	1.000	1.000	0.0	105	-0.02	5.29
107	Ethanol	0.140	0.124	11.4	95	0.00	4.28
108	acrolein	2.105	2.509	-19.2	122	0.00	4.76
		Amount	Calc.	%Drift			
109	Tert Butyl Alcohol	400.000	371.995	7.0	99	0.00	5.38
		AvgRF	CCRF	%Dev			
110	tert Amyl alcohol	0.922	0.933	-1.2	101	0.00	7.57
111	Isobutyl alcohol	0.408	0.389	4.7	103	0.00	7.45
		Amount	Calc.	%Drift			
112	1,4-Dioxane	800.000	767.142	4.1	98	0.00	8.67
113	3,3-Dimethyl-1-butanol	2000.000	1840.139	8.0	101	0.00	10.43

(#) = Out of Range SPCC's out = 0 CCC's out = 0

6.7.3

6

Continuing Calibration Summary

Job Number: FA34224
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, Humacao, PR
Sample: VJ5315-CC5312
Lab FileID: J0976813.D

```
J0976757.D MSJ052316a.M       Thu May 26 13:56:15 2016
```

Continuing Calibration Summary

Job Number: FA34224 **Sample:** VJ5315-ECC5312
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** J0976839.D
Project: BMSMC, Building 5 Area, Humacao, PR

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\2\data\052616\J0976839.D          Vial: 22
Acq On    : 26 May 2016   7:21 pm                    Operator: DARSHNAP
Sample    : ecc5312-5                                Inst    : MSVOA6
Misc      : MS34006,VJ5315,,,,,                      Multiplr: 1.00
MS Integration Params: RTEINT.P

Method       : C:\msdchem\2\methods\MSJ052316a.M (RTE Integrator)
Title        : SW-846 Method 5030B/8260B & EPA 624
Last Update  : Wed May 25 09:12:25 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	106	0.00	7.76
			Amount	Calc.	%Drift			
2		Dichlorodifluoromethane	40.000	39.207	2.0	106	0.00	2.70
3	P	Chloromethane	40.000	38.307	4.2	102	0.00	2.91
4	C	Vinyl Chloride	40.000	37.119	7.2	100	0.00	3.05
5		1,3-Butadiene	40.000	46.788	-17.0	143	0.00	3.05
6		Bromomethane	40.000	37.154	7.1	100	0.00	3.47
7		Chloroethane	40.000	38.614	3.5	104	0.00	3.62
			AvgRF	CCRF	%Dev			
8		Trichlorofluoromethane	0.496	0.462	6.9	104	0.00	3.84
9		Ethyl Ether	0.219	0.204	6.8	98	0.00	4.12
10		1,2-Dichlorotrifluoroetha	0.343	0.312	9.0	99	0.00	4.36
11	C	1,1-Dichloroethene	0.428	0.392	8.4	101	0.00	4.40
12		Freon 113	0.299	0.271	9.4	97	0.01	4.48
			Amount	Calc.	%Drift			
13		Carbon Disulfide	40.000	36.486	8.8	99	0.00	4.48
			AvgRF	CCRF	%Dev			
14		Iodomethane	0.486	0.450	7.4	100	0.00	4.59
15		Allyl chloride	0.367	0.366	0.3	111	0.00	4.93
			Amount	Calc.	%Drift			
16		Methylene Chloride	40.000	35.106	12.2	94	0.00	5.05
17		Acetone	200.000	168.810	15.6	93	0.00	5.07
			AvgRF	CCRF	%Dev			
18		Methyl acetate	0.030	0.030	0.0	99	0.00	5.19
			Amount	Calc.	%Drift			
19		trans-1,2-Dichloroethene	40.000	37.325	6.7	101	0.00	5.23
			AvgRF	CCRF	%Dev			
20		Hexane	0.256	0.237	7.4	99	0.00	5.30
21		Methyl Tert Butyl Ether	0.746	0.708	5.1	97	0.00	5.34
			Amount	Calc.	%Drift			
22		Acetonitrile	400.000	351.428	12.1	96	0.00	5.59
			AvgRF	CCRF	%Dev			

Continuing Calibration Summary

Job Number: FA34224 **Sample:** VJ5315-ECC5312
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** J0976839.D
Project: BMSMC, Building 5 Area, Humacao, PR

23		Di-isopropyl ether	0.836	0.807	3.5	98	0.00	5.72
		----------	Amount	Calc.	%Drift	----------		
24		Chloroprene	40.000	41.722	-4.3	126	0.00	5.87
25	P	1,1-Dichloroethane	40.000	37.998	5.0	102	0.00	5.90
26		Acrylonitrile	200.000	180.179	9.9	89	0.00	5.92
		----------	AvgRF	CCRF	%Dev	----------		
27		ETBE	0.853	0.831	2.6	98	0.00	6.12
28		Vinyl acetate	0.435	0.410	5.7	90	0.00	6.11
29		cis-1,2-Dichloroethene	0.330	0.317	3.9	102	0.00	6.48
30		2,2-Dichloropropane	0.421	0.395	6.2	101	0.00	6.61
31		Bromochloromethane	0.148	0.143	3.4	99	0.00	6.69
32		Cyclohexane	0.475	0.473	0.4	101	0.00	6.73
		----------	Amount	Calc.	%Drift	----------		
33	C	Chloroform	40.000	37.832	5.4	101	0.00	6.74
		----------	AvgRF	CCRF	%Dev	----------		
34		Ethyl acetate	0.156	0.147	5.8	92	0.00	6.81
		----------	Amount	Calc.	%Drift	----------		
35		Tetrahydrofuran	40.000	36.590	8.5	94	0.00	6.92
		----------	AvgRF	CCRF	%Dev	----------		
36	S	Dibromofluoromethane	0.253	0.252	0.4	105	0.00	6.93
37		Carbon Tetrachloride	0.418	0.387	7.4	99	0.00	6.93
38		1,1,1-Trichloroethane	0.495	0.461	6.9	100	0.00	7.00
39		2-Butanone	0.068	0.060	11.8	95	0.00	7.02
40		1,1-Dichloropropene	0.383	0.373	2.6	102	0.00	7.10
		----------	Amount	Calc.	%Drift	----------		
41		tert-Butyl Formate	400.000	332.820	16.8	90	0.00	7.19
		----------	AvgRF	CCRF	%Dev	----------		
42		Propionitrile	0.025	0.023	8.0	95	0.00	7.33
		----------	Amount	Calc.	%Drift	----------		
43		Methacrylonitrile	400.000	363.258	9.2	99	0.00	7.36
		----------	AvgRF	CCRF	%Dev	----------		
44		Benzene	1.201	1.150	4.2	102	0.00	7.36
45		TAME	0.779	0.758	2.7	98	0.00	7.43
46	S	1,2-Dichloroethane-d4	0.285	0.273	4.2	104	0.00	7.48
		----------	Amount	Calc.	%Drift	----------		
47		1,2-Dichloroethane	40.000	37.239	6.9	99	0.00	7.55
		----------	AvgRF	CCRF	%Dev	----------		
48		Trichloroethene	0.308	0.290	5.8	101	0.00	7.93
49		Methylcyclohexane	0.529	0.531	-0.4	102	0.00	7.96
50		Dibromomethane	0.160	0.152	5.0	100	0.00	8.36
		----------	Amount	Calc.	%Drift	----------		
51	C	1,2-Dichloropropane	40.000	37.146	7.1	97	0.00	8.45
		----------	AvgRF	CCRF	%Dev	----------		
52		Bromodichloromethane	0.380	0.358	5.8	98	0.00	8.49
		----------	Amount	Calc.	%Drift	----------		

Continuing Calibration Summary

Job Number: FA34224 **Sample:** VJ5315-ECC5312
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** J0976839.D
Project: BMSMC, Building 5 Area, Humacao, PR

53		Methyl methacrylate	40.000	36.634	8.4	97	0.00	8.59
54		2-Chloroethyl vinyl ether	200.000	190.626	4.7	101	0.00	9.01
		----------	AvgRF	CCRF	%Dev	----------		
55		cis-1,3-Dichloropropene	0.427	0.432	-1.2	98	0.00	9.11
56	I	Chlorobenzene-d5	1.000	1.000	0.0	106	0.00	10.85
57	S	Toluene-d8	1.264	1.250	1.1	105	0.00	9.30
		----------	Amount	Calc.	%Drift	----------		
58	C	Toluene	40.000	38.459	3.9	102	0.00	9.36
		----------	AvgRF	CCRF	%Dev	----------		
59		2-Nitropropane	0.051	0.048	5.9	93	0.00	9.56
60		4-Methyl-2-pentanone	0.194	0.188	3.1	100	0.00	9.67
61		trans-1,3-Dichloropropene	0.444	0.445	-0.2	99	0.00	9.73
62		Tetrachloroethene	0.401	0.381	5.0	100	0.00	9.76
		----------	Amount	Calc.	%Drift	----------		
63		Ethyl methacrylate	40.000	38.608	3.5	102	0.00	9.84
		----------	AvgRF	CCRF	%Dev	----------		
64		1,1,2-Trichloroethane	0.248	0.239	3.6	98	0.00	9.90
65		Dibromochloromethane	0.324	0.317	2.2	97	0.00	10.10
66		1,3-Dichloropropane	0.503	0.473	6.0	98	0.00	10.18
67		1,2-Dibromoethane	0.278	0.267	4.0	98	0.00	10.36
		----------	Amount	Calc.	%Drift	----------		
68		2-hexanone	200.000	184.844	7.6	100	0.00	10.49
69		1-Chlorohexane	40.000	38.450	3.9	104	0.00	10.80
70	C	Ethylbenzene	40.000	37.772	5.6	100	0.00	10.86
71	P	Chlorobenzene	40.000	37.822	5.4	100	0.00	10.86
72		1,1,1,2-Tetrachloroethane	40.000	38.339	4.2	99	0.00	10.91
73		m,p-Xylene	80.000	76.510	4.4	101	0.00	11.00
		----------	AvgRF	CCRF	%Dev	----------		
74		o-Xylene	1.338	1.363	-1.9	101	0.00	11.44
		----------	Amount	Calc.	%Drift	----------		
75		Styrene	40.000	38.077	4.8	100	0.00	11.48
76	P	Bromoform	40.000	36.755	8.1	96	0.00	11.55
		----------	AvgRF	CCRF	%Dev	----------		
77		Isopropylbenzene	1.572	1.651	-5.0	102	0.00	11.74
78	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	102	0.00	13.20
79	S	4-Bromofluorobenzene	0.922	0.910	1.3	103	0.00	12.05
		----------	Amount	Calc.	%Drift	----------		
80		cis-1,4-Dichloro-2-butene	40.000	24.504	38.7	63	0.00	12.09
		----------	AvgRF	CCRF	%Dev	----------		
81		n-Propylbenzene	3.533	3.534	-0.0	102	0.00	12.16
82		Bromobenzene	0.840	0.800	4.8	100	0.00	12.18
83	P	1,1,2,2-Tetrachloroethane	0.641	0.601	6.2	97	0.00	12.21
84		1,3,5-Trimethylbenzene	2.593	2.667	-2.9	100	0.00	12.34
85		2-Chlorotoluene	2.572	2.462	4.3	100	0.00	12.35
		----------	Amount	Calc.	%Drift	----------		
86		trans-1,4-Dichloro-2-Bute	40.000	26.148	34.6	68	0.00	12.40

Continuing Calibration Summary

Job Number: FA34224 **Sample:** VJ5315-ECC5312
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** J0976839.D
Project: BMSMC, Building 5 Area, Humacao, PR

		AvgRF	CCRF	%Dev			
87	1,2,3-Trichloropropane	0.164	0.159	3.0	96	0.00	12.38
88	Cyclohexanone	0.018	0.012	33.3	62	0.00	12.45
89	4-Chlorotoluene	2.314	2.293	0.9	100	0.00	12.51
		Amount	Calc.	%Drift			
90	a-Methyl Styrene	40.000	39.631	0.9	105	0.00	12.60
		AvgRF	CCRF	%Dev			
91	tert-Butylbenzene	1.498	1.482	1.1	101	0.00	12.68
92	1,2,4-Trimethylbenzene	2.596	2.658	-2.4	100	0.00	12.75
93	Pentachloroethane	0.506	0.515	-1.8	110	0.00	12.74
94	sec-Butylbenzene	3.125	3.195	-2.2	101	0.00	12.87
95	4-Isopropyltoluene	2.727	2.750	-0.8	100	0.00	13.00
96	1,3-Dichlorobenzene	1.452	1.416	2.5	99	0.00	13.13
		Amount	Calc.	%Drift			
97	1,4-Dichlorobenzene	40.000	37.741	5.6	97	0.00	13.22
		AvgRF	CCRF	%Dev			
98	n-Butylbenzene	1.486	1.554	-4.6	101	0.00	13.43
		Amount	Calc.	%Drift			
99	Benzyl Chloride	40.000	38.108	4.7	95	0.00	13.44
		AvgRF	CCRF	%Dev			
100	1,2-Dichlorobenzene	1.355	1.299	4.1	98	0.00	13.64
		Amount	Calc.	%Drift			
101	1,2-Dibromo-3-Chloropropa	40.000	34.426	13.9	86	0.00	14.38
102	Hexachlorobutadiene	40.000	37.922	5.2	100	0.00	14.93
		AvgRF	CCRF	%Dev			
103	1,2,4-Trichlorobenzene	0.901	0.879	2.4	94	0.00	14.97
		Amount	Calc.	%Drift			
104	Naphthalene	40.000	37.598	6.0	94	0.00	15.26
105	1,2,3-Trichlorobenzene	40.000	37.646	5.9	95	0.00	15.43
		AvgRF	CCRF	%Dev			
106 I	Tert Butyl Alcohol-d10	1.000	1.000	0.0	96	0.00	5.30
107	Ethanol	0.140	0.120	14.3	85	0.00	4.28
108	acrolein	2.105	2.726	-29.5	122	0.00	4.76
		Amount	Calc.	%Drift			
109	Tert Butyl Alcohol	400.000	379.115	5.2	92	0.00	5.38
		AvgRF	CCRF	%Dev			
110	tert Amyl alcohol	0.922	0.915	0.8	91	0.00	7.57
111	Isobutyl alcohol	0.408	0.384	5.9	94	0.00	7.45
		Amount	Calc.	%Drift			
112	1,4-Dioxane	800.000	815.078	-1.9	96	0.00	8.67
113	3,3-Dimethyl-1-butanol	2000.000	1744.662	12.8	88	0.00	10.43

(#) = Out of Range SPCC's out = 0 CCC's out = 0

6.7.4

6

Continuing Calibration Summary

Job Number: FA34224
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, Humacao, PR

Sample: VJ5315-ECC5312
Lab FileID: J0976839.D

J0976757.D MSJ052316a.M Fri May 27 11:33:18 2016

Initial Calibration Summary

Job Number: FA34224 **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: FA34224 **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: FA34224 **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: FA34224 **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: FA34224 **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: FA34224 **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: FA34224 **Sample:** VY1166-CC1149
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** Y28863.D
Project: BMSMC, Building 5 Area, Humacao, PR

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\DATA\052616\Y28863.D            Vial: 6
Acq On    : 26 May 2016   9:07 am                    Operator: ericp
Sample    : CC1149-4                                 Inst    : MSVOA14
Misc      : MS33984,VY1166,5.00,,,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	118	0.00	7.12
2		Dichlorodifluoromethane	0.519	0.471	9.2	99	0.00	1.98
3	P	Chloromethane	0.521	0.532	-2.1	114	0.00	2.20
4	C	Vinyl Chloride	0.524	0.557	-6.3	117	0.00	2.32
5		Bromomethane	0.245	0.231	5.7	105	0.00	2.72
6		Chloroethane	0.257	0.236	8.2	101	0.00	2.88
7		Trichlorofluoromethane	0.494	0.487	1.4	106	0.00	3.05
8		Ethyl Ether	0.251	0.271	-8.0	122	0.00	3.41
9		1,2-Dichlorotrifluoroetha	0.430	0.436	-1.4	116	0.00	3.65
10	C	1,1-Dichloroethene	0.574	0.591	-3.0	118	0.00	3.65
11		Freon 113	0.391	0.373	4.6	106	0.00	3.71
12		Carbon Disulfide	1.199	1.196	0.3	110	0.00	3.69
13		Iodomethane	0.523	0.464	11.3	101	0.00	3.83
14		Allyl chloride	0.471	0.511	-8.5	123	0.00	4.17
		----------	Amount	Calc.	%Drift		----------	
15		Methylene Chloride	50.000	54.209	-8.4	124	0.00	4.30
		----------	AvgRF	CCRF	%Dev		----------	
16		Acetone	0.085	0.093	-9.4	131	0.00	4.34
17		Methyl acetate	0.159	0.183	-15.1	136	0.00	4.48
18		trans-1,2-Dichloroethene	0.443	0.465	-5.0	114	0.00	4.48
19		Hexane	0.339	0.335	1.2	119	0.00	4.58
20		Methyl Tert Butyl Ether	0.841	0.876	-4.2	120	0.00	4.61
21		Acetonitrile	0.027	0.031	-14.8	127	0.00	4.84
22		Di-isopropyl ether	0.949	1.052	-10.9	127	0.00	5.03
23		Chloroprene	0.536	0.564	-5.2	118	0.00	5.14
24	P	1,1-Dichloroethane	0.594	0.667	-12.3	127	0.00	5.16
25		Acrylonitrile	0.092	0.103	-12.0	132	0.00	5.20
26		ETBE	0.937	1.054	-12.5	127	0.00	5.42
27		Vinyl acetate	0.460	0.544	-18.3	133	0.00	5.42
28		cis-1,2-Dichloroethene	0.373	0.381	-2.1	113	0.00	5.75
29		2,2-Dichloropropane	0.260	0.281	-8.1	118	0.00	5.87
30		Bromochloromethane	0.158	0.161	-1.9	114	0.00	5.97
31		Cyclohexane	0.621	0.626	-0.8	110	0.00	6.00
32	C	Chloroform	0.595	0.623	-4.7	114	0.00	6.04
33		Ethyl acetate	0.200	0.223	-11.5	130	0.00	6.16
34		Tetrahydrofuran	0.073	0.065	11.0	113	0.00	6.23
35	S	Dibromofluoromethane	0.230	0.233	-1.3	118	0.00	6.24
36		Carbon Tetrachloride	0.412	0.426	-3.4	113	0.00	6.22
37		1,1,1-Trichloroethane	0.457	0.476	-4.2	112	0.00	6.28
38		2-Butanone	0.115	0.127	-10.4	129	0.00	6.36

Continuing Calibration Summary

Job Number: FA34224 **Sample:** VY1166-CC1149
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** Y28863.D
Project: BMSMC, Building 5 Area, Humacao, PR

39		1,1-Dichloropropene	0.480	0.494	-2.9	114	0.00	6.41
40		Propionitrile	0.034	0.036	-5.9	124	-0.02	6.67
41		Methacrylonitrile	0.121	0.133	-9.9	127	0.00	6.70
42		Benzene	1.336	1.429	-7.0	116	0.00	6.68
43		TAME	0.880	0.924	-5.0	119	0.00	6.80
44	S	1,2-Dichloroethane-d4	0.244	0.250	-2.5	125	0.00	6.81
45		1,2-Dichloroethane	0.370	0.385	-4.1	120	0.00	6.89
46		Trichloroethene	0.345	0.346	-0.3	109	0.00	7.31
47		Methylcyclohexane	0.682	0.674	1.2	108	0.00	7.31
48		Dibromomethane	0.164	0.171	-4.3	122	0.00	7.75
49	C	1,2-Dichloropropane	0.331	0.348	-5.1	123	0.00	7.84
50		Bromodichloromethane	0.394	0.405	-2.8	119	0.00	7.91
		----------	Amount	Calc.	%Drift		----------	
51		Methyl methacrylate	50.000	47.838	4.3	122	0.00	8.05
		----------	AvgRF	CCRF	%Dev		----------	
52		2-Chloroethyl vinyl ether	0.151	0.158	-4.6	120	0.00	8.47
53		cis-1,3-Dichloropropene	0.492	0.522	-6.1	121	0.00	8.55
54	I	Chlorobenzene-d5	1.000	1.000	0.0	121	0.00	10.31
55	S	Toluene-d8	1.409	1.371	2.7	119	0.00	8.74
56	C	Toluene	2.026	2.061	-1.7	114	0.00	8.80
57		2-Nitropropane	0.080	0.087	-8.7	135	0.00	9.00
58		4-Methyl-2-pentanone	0.313	0.343	-9.6	130	0.00	9.15
59		trans-1,3-Dichloropropene	0.563	0.592	-5.2	120	0.00	9.20
60		Tetrachloroethene	0.472	0.451	4.4	108	0.00	9.21
61		Ethyl methacrylate	0.440	0.440	0.0	124	0.00	9.35
62		1,1,2-Trichloroethane	0.310	0.311	-0.3	116	0.00	9.36
63		Dibromochloromethane	0.371	0.373	-0.5	116	0.00	9.56
64		1,3-Dichloropropane	0.652	0.669	-2.6	123	0.00	9.64
65		1,2-Dibromoethane	0.338	0.330	2.4	116	0.00	9.80
66		2-hexanone	0.221	0.241	-9.0	136	0.00	9.98
67		1-Chlorohexane	0.655	0.632	3.5	113	0.00	10.28
68	C	Ethylbenzene	2.107	2.174	-3.2	114	0.00	10.34
69	P	Chlorobenzene	1.240	1.244	-0.3	113	0.00	10.32
70		1,1,1,2-Tetrachloroethane	0.411	0.413	-0.5	114	0.00	10.38
71		m,p-Xylene	1.513	1.593	-5.3	114	0.00	10.48
72		o-Xylene	1.626	1.648	-1.4	114	0.00	10.92
73		Styrene	1.187	1.227	-3.4	114	0.00	10.97
74	P	Bromoform	0.198	0.190	4.0	116	0.00	11.01
75		Isopropylbenzene	1.987	2.007	-1.0	111	0.00	11.23
76	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	119	0.00	12.68
77	S	4-Bromofluorobenzene	0.681	0.661	2.9	119	0.00	11.53
78		cis-1,4-Dichloro-2-butene	0.257	0.253	1.6	122	0.00	11.58
79		n-Propylbenzene	4.867	5.125	-5.3	112	0.00	11.65
80		Bromobenzene	0.955	0.964	-0.9	111	0.00	11.64
81	P	1,1,2,2-Tetrachloroethane	0.978	1.012	-3.5	120	0.00	11.71
82		1,3,5-Trimethylbenzene	3.760	3.973	-5.7	111	0.00	11.84
83		2-Chlorotoluene	3.414	3.603	-5.5	113	0.00	11.83
84		trans-1,4-Dichloro-2-Bute	0.255	0.260	-2.0	121	0.00	11.89
85		1,2,3-Trichloropropane	0.262	0.270	-3.1	121	0.00	11.86
86		Cyclohexanone	0.046	0.053	-15.2	144	0.00	11.91
87		4-Chlorotoluene	3.100	3.255	-5.0	115	0.00	11.99
88		tert-Butylbenzene	2.269	2.400	-5.8	115	0.00	12.17
89		1,2,4-Trimethylbenzene	3.607	3.831	-6.2	111	0.00	12.25
90		Pentachloroethane	0.549	0.556	-1.3	111	0.00	12.21
91		sec-Butylbenzene	4.808	5.023	-4.5	109	0.00	12.36
92		4-Isopropyltoluene	3.926	4.051	-3.2	108	0.00	12.50

Continuing Calibration Summary

Job Number: FA34224 **Sample:** VY1166-CC1149
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** Y28863.D
Project: BMSMC, Building 5 Area, Humacao, PR

93		1,3-Dichlorobenzene	1.902	1.882	1.1	109	0.00	12.61
94		1,4-Dichlorobenzene	1.945	1.881	3.3	109	0.00	12.69
95		n-Butylbenzene	2.299	2.351	-2.3	108	0.00	12.93
96		Benzyl Chloride	0.363	0.379	-4.4	114	0.00	12.93
97		1,2-Dichlorobenzene	1.804	1.791	0.7	110	0.00	13.13
98		1,2-Dibromo-3-Chloropropa	0.177	0.189	-6.8	119	0.00	13.94
99		Hexachlorobutadiene	0.700	0.667	4.7	103	0.00	14.55
100		1,2,4-Trichlorobenzene	1.247	1.215	2.6	103	0.00	14.59
101		Naphthalene	2.747	2.815	-2.5	106	0.00	14.88
102		1,2,3-Trichlorobenzene	1.199	1.190	0.8	106	0.00	15.03
103	I	Tert Butyl Alcohol-d10	1.000	1.000	0.0	145	-0.02	4.62
104		Ethanol	0.136	0.119	12.5	129	-0.02	3.57
105		Acrolein	2.332	2.037	12.7	123	0.00	4.02
106		Tert butyl alcohol	1.431	1.252	12.5	126	0.00	4.71
107		Isobutyl alcohol	0.318	0.279	12.3	125	-0.02	6.89
108		Tert Amyl Alcohol	1.142	1.030	9.8	129	-0.02	7.00
109		1,4-Dioxane	0.140	0.119	15.0	119	0.00	8.12

(#) = Out of Range SPCC's out = 0 CCC's out = 0
Y28381.D 050616APP9-Y.m Thu May 26 12:22:06 2016

Continuing Calibration Summary

Job Number: FA34224 **Sample:** VY1167-ECC1149
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** Y28888.D
Project: BMSMC, Building 5 Area, Humacao, PR

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\DATA\052616\Y28888.D            Vial: 31
Acq On    : 26 May 2016   8:07 pm                    Operator: ericp
Sample    : ECC1149-4                                Inst    : MSVOA14
Misc      : MS34003,VY1167,5.00,,,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	114	0.00	7.12
2		Dichlorodifluoromethane	0.519	0.480	7.5	98	0.00	1.98
3	P	Chloromethane	0.521	0.519	0.4	108	0.00	2.20
4	C	Vinyl Chloride	0.524	0.554	-5.7	113	0.00	2.32
5		Bromomethane	0.245	0.294	-20.0	129	0.00	2.72
6		Chloroethane	0.257	0.355	-38.1	148	0.01	2.88
7		Trichlorofluoromethane	0.494	0.621	-25.7	131	0.01	3.05
8		Ethyl Ether	0.251	0.363	-44.6	158	0.00	3.41
9		1,2-Dichlorotrifluoroetha	0.430	0.578	-34.4	149	0.00	3.64
10	C	1,1-Dichloroethene	0.574	0.788	-37.3#	152	0.00	3.65
11		Freon 113	0.391	0.451	-15.3	124	0.00	3.71
12		Carbon Disulfide	1.199	1.498	-24.9	133	0.00	3.70
13		Iodomethane	0.523	0.548	-4.8	115	0.00	3.82
14		Allyl chloride	0.471	0.787	-67.1#	183	0.00	4.18
		----------	Amount	Calc.	%Drift		----------	
15		Methylene Chloride	50.000	77.943	-55.9#	171	0.00	4.29
		----------	AvgRF	CCRF	%Dev		----------	
16		Acetone	0.085	0.119	-40.0	161	0.00	4.35
17		Methyl acetate	0.159	0.261	-64.2#	187	0.00	4.49
18		trans-1,2-Dichloroethene	0.443	0.690	-55.8#	163	0.00	4.49
19		Hexane	0.339	0.491	-44.8	169	0.00	4.58
20		Methyl Tert Butyl Ether	0.841	1.109	-31.9	147	0.00	4.61
21		Acetonitrile	0.027	0.039	-44.4	157	0.00	4.85
22		Di-isopropyl ether	0.949	1.491	-57.1#	175	0.00	5.02
23		Chloroprene	0.536	0.686	-28.0	139	0.00	5.14
24	P	1,1-Dichloroethane	0.594	0.781	-31.5	144	0.00	5.16
25		Acrylonitrile	0.092	0.115	-25.0	142	0.00	5.19
26		ETBE	0.937	1.212	-29.3	141	0.00	5.43
27		Vinyl acetate	0.460	0.600	-30.4	142	0.00	5.42
28		cis-1,2-Dichloroethene	0.373	0.392	-5.1	113	0.00	5.75
29		2,2-Dichloropropane	0.260	0.278	-6.9	113	0.00	5.87
30		Bromochloromethane	0.158	0.158	0.0	108	0.00	5.97
31		Cyclohexane	0.621	0.631	-1.6	108	0.00	6.00
32	C	Chloroform	0.595	0.642	-7.9	113	0.00	6.04
33		Ethyl acetate	0.200	0.200	0.0	113	0.00	6.16
34		Tetrahydrofuran	0.073	0.067	8.2	111	0.00	6.24
35	S	Dibromofluoromethane	0.230	0.232	-0.9	114	0.00	6.24
36		Carbon Tetrachloride	0.412	0.419	-1.7	108	0.00	6.22
37		1,1,1-Trichloroethane	0.457	0.486	-6.3	110	0.00	6.28
38		2-Butanone	0.115	0.116	-0.9	114	0.00	6.37

Continuing Calibration Summary

Job Number: FA34224 **Sample:** VY1167-ECC1149
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** Y28888.D
Project: BMSMC, Building 5 Area, Humacao, PR

39		1,1-Dichloropropene	0.480	0.501	-4.4	112	0.00	6.42
40		Propionitrile	0.034	0.033	2.9	111	-0.01	6.67
41		Methacrylonitrile	0.121	0.129	-6.6	119	0.00	6.70
42		Benzene	1.336	1.444	-8.1	113	0.00	6.68
43		TAME	0.880	0.911	-3.5	113	0.00	6.80
44	S	1,2-Dichloroethane-d4	0.244	0.254	-4.1	123	0.00	6.82
45		1,2-Dichloroethane	0.370	0.395	-6.8	119	0.00	6.89
46		Trichloroethene	0.345	0.363	-5.2	111	0.00	7.31
47		Methylcyclohexane	0.682	0.687	-0.7	107	0.00	7.32
48		Dibromomethane	0.164	0.162	1.2	112	0.00	7.74
49	C	1,2-Dichloropropane	0.331	0.338	-2.1	115	0.00	7.84
50		Bromodichloromethane	0.394	0.406	-3.0	116	0.00	7.91
		----------	Amount	Calc.	%Drift		----------	
51		Methyl methacrylate	50.000	48.657	2.7	120	0.00	8.05
		----------	AvgRF	CCRF	%Dev		----------	
52		2-Chloroethyl vinyl ether	0.151	0.153	-1.3	113	0.00	8.47
53		cis-1,3-Dichloropropene	0.492	0.525	-6.7	117	0.00	8.55
54	I	Chlorobenzene-d5	1.000	1.000	0.0	117	0.00	10.31
55	S	Toluene-d8	1.409	1.395	1.0	116	0.00	8.74
56	C	Toluene	2.026	2.110	-4.1	113	0.00	8.80
57		2-Nitropropane	0.080	0.076	5.0	115	0.00	9.00
58		4-Methyl-2-pentanone	0.313	0.305	2.6	111	0.00	9.15
59		trans-1,3-Dichloropropene	0.563	0.592	-5.2	116	0.00	9.20
60		Tetrachloroethene	0.472	0.500	-5.9	115	0.00	9.20
61		Ethyl methacrylate	0.440	0.439	0.2	119	0.00	9.34
62		1,1,2-Trichloroethane	0.310	0.308	0.6	110	0.00	9.37
63		Dibromochloromethane	0.371	0.374	-0.8	112	0.00	9.56
64		1,3-Dichloropropane	0.652	0.675	-3.5	120	0.00	9.64
65		1,2-Dibromoethane	0.338	0.335	0.9	113	0.00	9.81
66		2-hexanone	0.221	0.213	3.6	116	0.00	9.99
67		1-Chlorohexane	0.655	0.658	-0.5	114	0.00	10.29
68	C	Ethylbenzene	2.107	2.258	-7.2	114	0.00	10.34
69	P	Chlorobenzene	1.240	1.305	-5.2	114	0.00	10.33
70		1,1,1,2-Tetrachloroethane	0.411	0.416	-1.2	111	0.00	10.38
71		m,p-Xylene	1.513	1.666	-10.1	115	0.00	10.48
72		o-Xylene	1.626	1.702	-4.7	114	0.00	10.92
73		Styrene	1.187	1.277	-7.6	115	0.00	10.97
74	P	Bromoform	0.198	0.185	6.6	108	0.00	11.01
75		Isopropylbenzene	1.987	2.087	-5.0	111	0.00	11.23
76	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	111	0.00	12.68
77	S	4-Bromofluorobenzene	0.681	0.692	-1.6	116	0.00	11.53
78		cis-1,4-Dichloro-2-butene	0.257	0.246	4.3	111	0.00	11.58
79		n-Propylbenzene	4.867	5.494	-12.9	112	0.00	11.65
80		Bromobenzene	0.955	1.049	-9.8	113	0.00	11.65
81	P	1,1,2,2-Tetrachloroethane	0.978	1.003	-2.6	111	0.00	11.72
82		1,3,5-Trimethylbenzene	3.760	4.218	-12.2	110	0.00	11.84
83		2-Chlorotoluene	3.414	3.822	-12.0	112	0.00	11.82
84		trans-1,4-Dichloro-2-Bute	0.255	0.250	2.0	109	0.00	11.89
85		1,2,3-Trichloropropane	0.262	0.261	0.4	110	0.00	11.86
86		Cyclohexanone	0.046	0.048	-4.3	124	0.00	11.91
87		4-Chlorotoluene	3.100	3.472	-12.0	114	0.00	11.99
88		tert-Butylbenzene	2.269	2.487	-9.6	112	0.00	12.17
89		1,2,4-Trimethylbenzene	3.607	4.084	-13.2	111	0.00	12.24
90		Pentachloroethane	0.549	0.538	2.0	100	0.00	12.21
91		sec-Butylbenzene	4.808	5.338	-11.0	108	0.00	12.36
92		4-Isopropyltoluene	3.926	4.344	-10.6	108	0.00	12.50

Continuing Calibration Summary

Job Number: FA34224 **Sample:** VY1167-ECC1149
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** Y28888.D
Project: BMSMC, Building 5 Area, Humacao, PR

93		1,3-Dichlorobenzene	1.902	2.005	-5.4	108	0.00	12.60
94		1,4-Dichlorobenzene	1.945	2.046	-5.2	111	0.00	12.69
95		n-Butylbenzene	2.299	2.435	-5.9	105	0.00	12.94
96		Benzyl Chloride	0.363	0.340	6.3	95	0.00	12.94
97		1,2-Dichlorobenzene	1.804	1.881	-4.3	108	0.00	13.13
98		1,2-Dibromo-3-Chloropropa	0.177	0.178	-0.6	105	0.00	13.95
99		Hexachlorobutadiene	0.700	0.729	-4.1	105	0.00	14.56
100		1,2,4-Trichlorobenzene	1.247	1.244	0.2	99	0.00	14.59
101		Naphthalene	2.747	2.846	-3.6	100	0.00	14.87
102		1,2,3-Trichlorobenzene	1.199	1.251	-4.3	104	0.00	15.04
103	I	Tert Butyl Alcohol-d10	1.000	1.000	0.0	151	-0.01	4.63
104		Ethanol	0.136	0.133	2.2	149	-0.02	3.57
105		Acrolein	2.332	2.314	0.8	145	0.00	4.01
106		Tert butyl alcohol	1.431	1.322	7.6	138	-0.01	4.71
107		Isobutyl alcohol	0.318	0.226	28.9	105	-0.01	6.89
108		Tert Amyl Alcohol	1.142	0.762	33.3	99	-0.01	7.00
109		1,4-Dioxane	0.140	0.101	27.9	104	0.00	8.11

(#) = Out of Range SPCC's out = 0 CCC's out = 1
Y28381.D 050616APP9-Y.m Fri May 27 07:07:39 2016

GC/MS Volatiles

Raw Data

Manual Integrations APPROVED (compounds with "m" flag)
Juan Garcia
05/26/16 17:43

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\052616\
Data File : J0976816.D
Acq On : 26 May 2016 10:37 am
Operator : DARSHNAP
Sample : fa34224-1 ma Inst : MSVOA6
Misc : MS34002,VJ5316,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 26 13:42:14 2016
Quant Method : C:\msdchem\2\methods\MSJ052316a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed May 25 09:12:25 2016
Response via : Initial Calibration

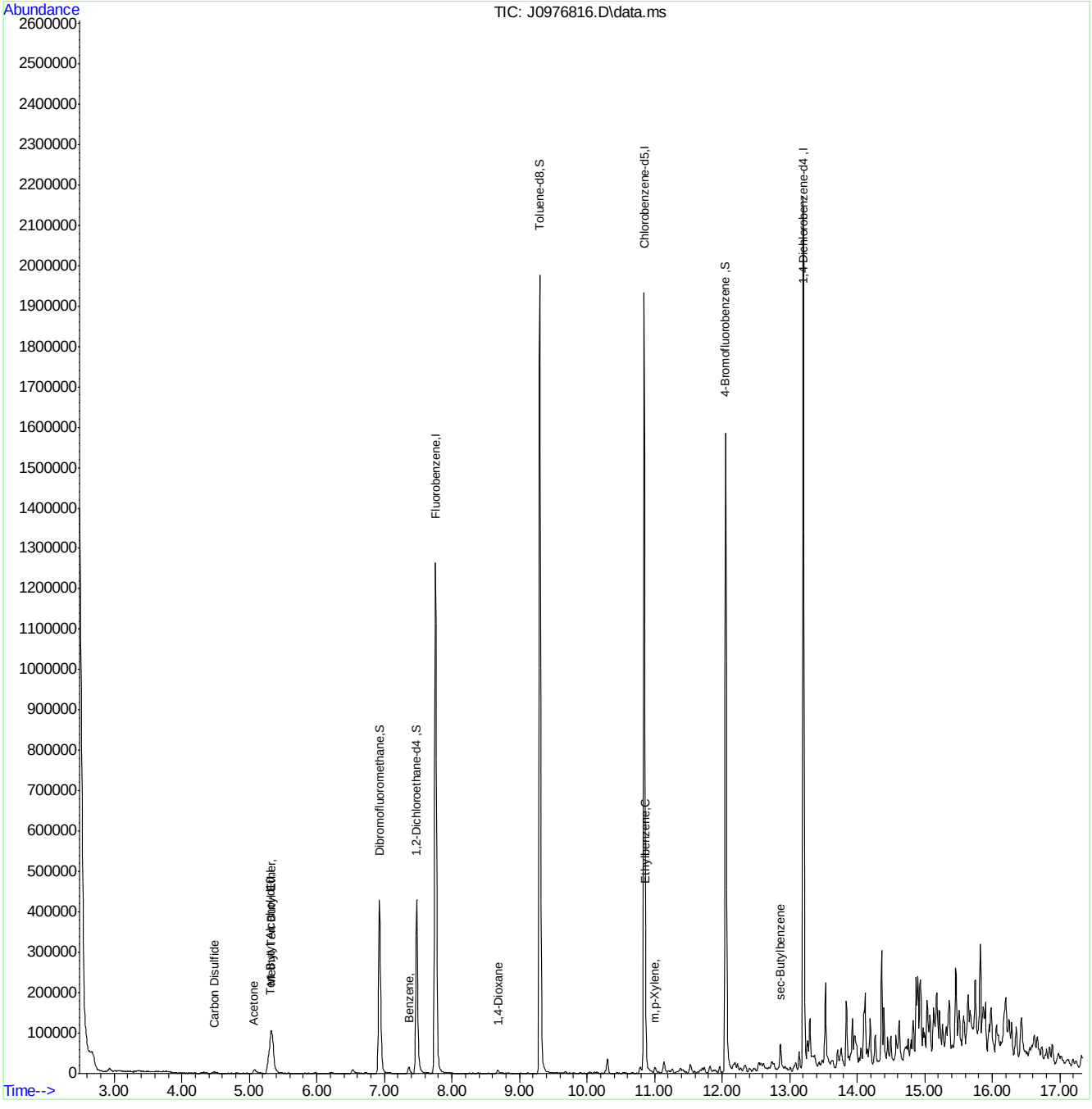
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.756	96	1150557	50.00	ug/L	0.00
56) Chlorobenzene-d5	10.846	117	943557	50.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	13.207	152	498454	50.00	ug/L	0.00
106) Tert Butyl Alcohol-d10	5.304	65	85504	250.00	ug/L	0.00
System Monitoring Compounds						
36) Dibromofluoromethane	6.928	113	296448	50.90	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 101.80%			
46) 1,2-Dichloroethane-d4	7.476	65	342005	52.08	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 104.16%			
57) Toluene-d8	9.301	98	1213100	50.84	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 101.68%			
79) 4-Bromofluorobenzene	12.051	95	482664	52.54	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 105.08%			
Target Compounds						Qvalue
13) Carbon Disulfide	4.477	76	8511	0.37	ug/L	70
17) Acetone	5.073	58	5942	14.82	ug/L	88
21) Methyl Tert Butyl Ether	5.328	73	150141	8.74	ug/L	84
44) Benzene	7.360	78	16407	0.59	ug/L	74
70) Ethylbenzene	10.865	91	11283	0.31	ug/L	87
73) m,p-Xylene	11.004	91	9324m	0.32	ug/L	
94) sec-Butylbenzene	12.866	105	21251	0.68	ug/L	73
112) 1,4-Dioxane	8.681	88	6927	137.16	ug/L	93

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

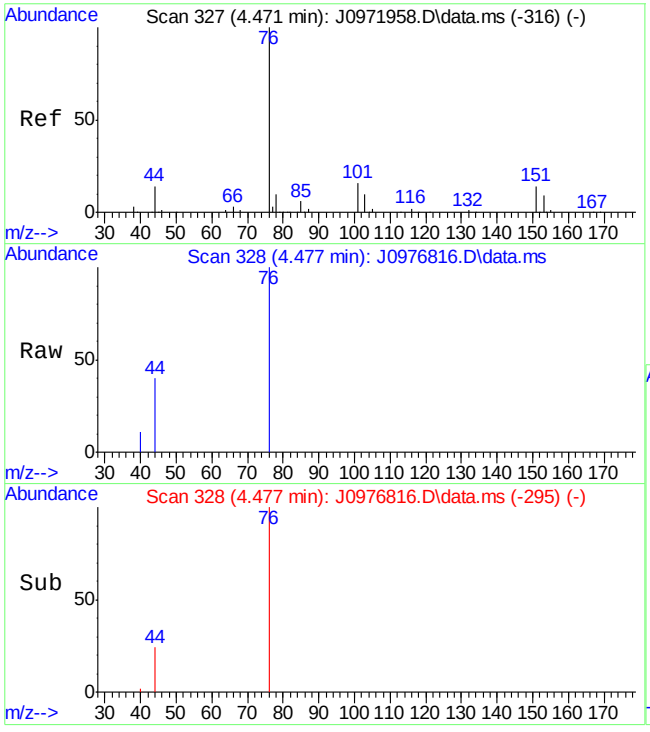
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\052616\
Data File : J0976816.D
Acq On : 26 May 2016 10:37 am
Operator : DARSHNAP
Sample : fa34224-1 ma Inst : MSVOA6
Misc : MS34002,VJ5316,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 26 13:42:14 2016
Quant Method : C:\msdchem\2\methods\MSJ052316a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed May 25 09:12:25 2016
Response via : Initial Calibration



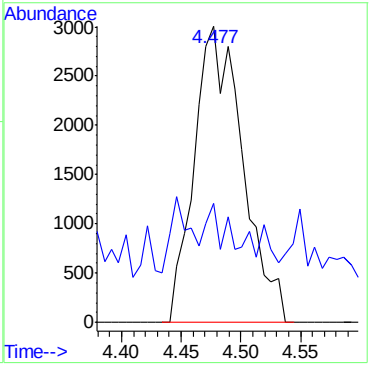
MSJ052316a.M Thu May 26 13:55:52 2016 Page: 2

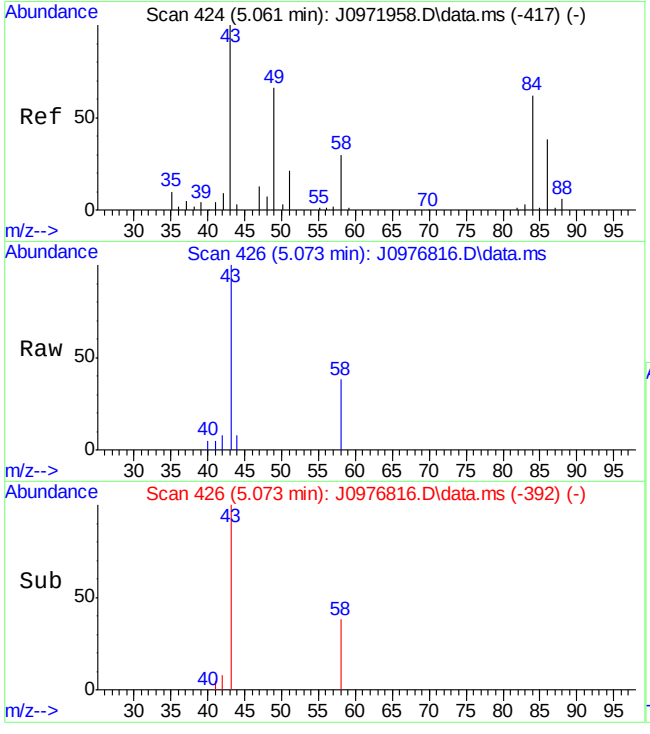


#13
Carbon Disulfide
Concen: 0.37 ug/L
RT: 4.477 min Scan# 328
Delta R.T. -0.000 min
Lab File: J0976816.D
Acq: 26 May 2016 10:37 am

Tgt Ion: 76 Resp: 8511

Ion	Ratio	Lower	Upper
76	100		
44	23.3	0.0	41.7

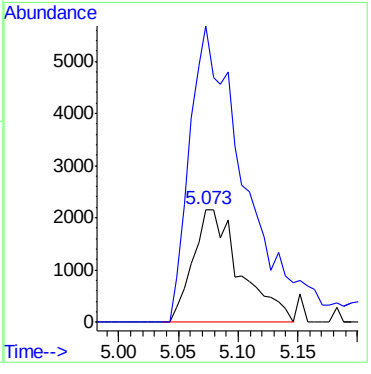


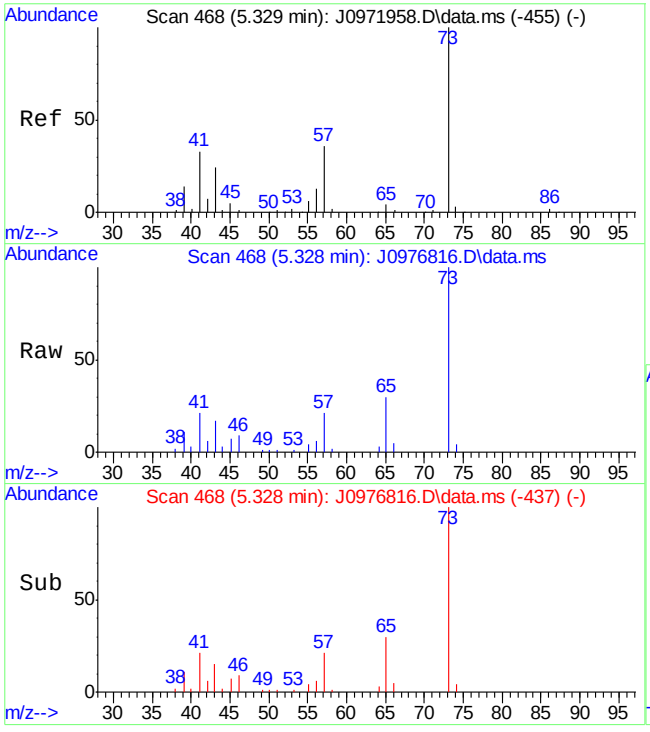


#17
Acetone
Concen: 14.82 ug/L
RT: 5.073 min Scan# 426
Delta R.T. 0.006 min
Lab File: J0976816.D
Acq: 26 May 2016 10:37 am

Tgt Ion: 58 Resp: 5942

Ion	Ratio	Lower	Upper
58	100		
43	263.1	256.2	316.2

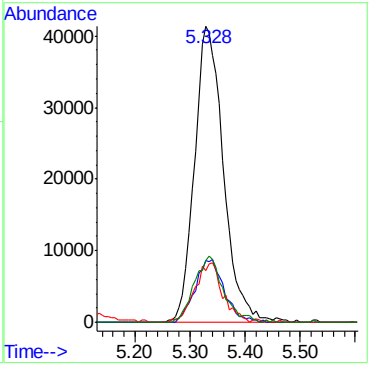


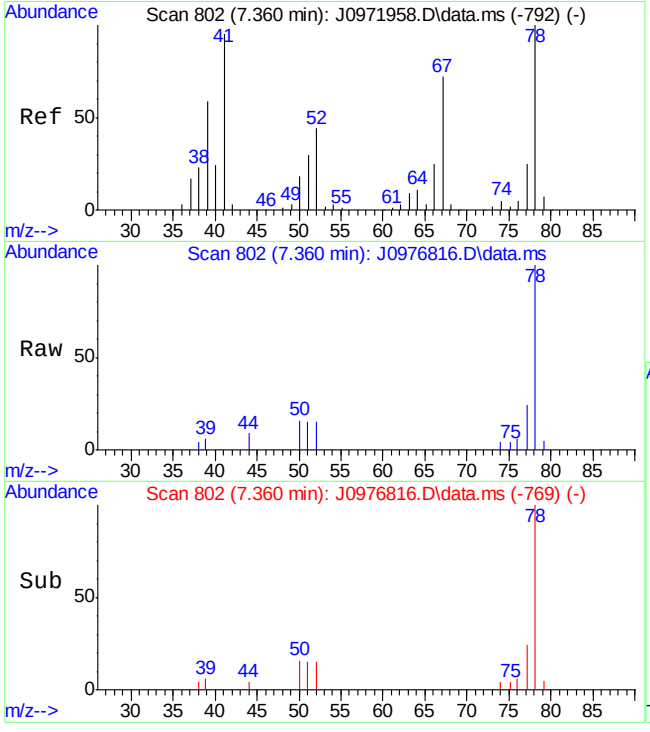


#21
Methyl Tert Butyl Ether
Concen: 8.74 ug/L
RT: 5.328 min Scan# 468
Delta R.T. -0.013 min
Lab File: J0976816.D
Acq: 26 May 2016 10:37 am

Tgt Ion: 73 Resp: 150141

Ion	Ratio	Lower	Upper
73	100		
57	21.1	2.4	62.4
43	17.3	0.0	55.1
41	21.0	0.0	56.4

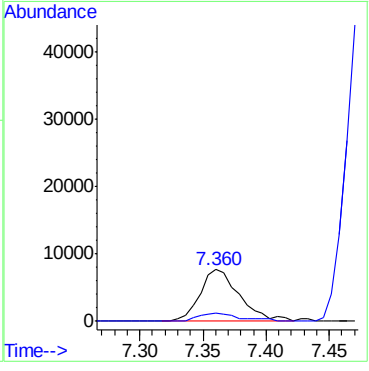


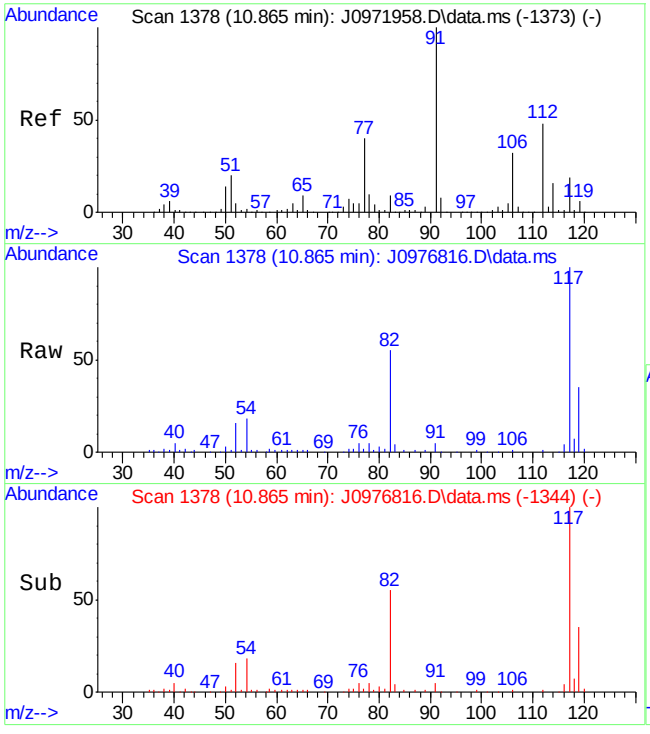


#44
Benzene
Concen: 0.59 ug/L
RT: 7.360 min Scan# 802
Delta R.T. 0.000 min
Lab File: J0976816.D
Acq: 26 May 2016 10:37 am

Tgt Ion: 78 Resp: 16407

Ion	Ratio	Lower	Upper
78	100		
51	14.7	0.0	58.3

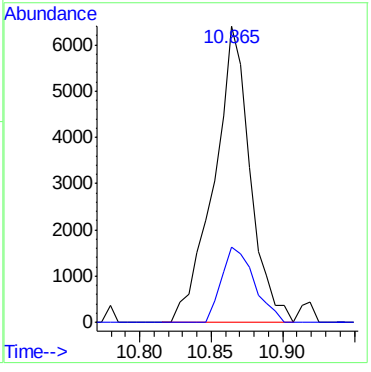


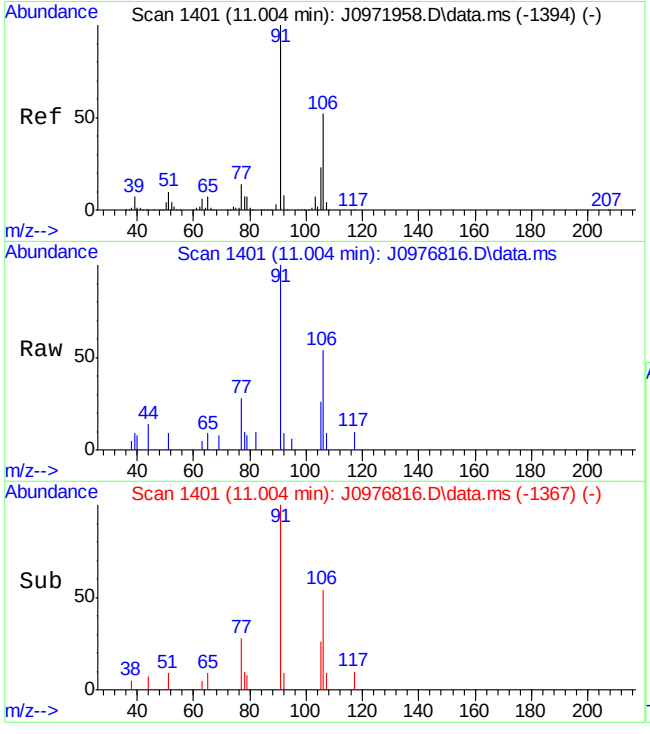


#70
Ethylbenzene
Concen: 0.31 ug/L
RT: 10.865 min Scan# 1378
Delta R.T. 0.007 min
Lab File: J0976816.D
Acq: 26 May 2016 10:37 am

Tgt Ion: 91 Resp: 11283

Ion	Ratio	Lower	Upper
91	100		
106	25.3	2.8	62.8

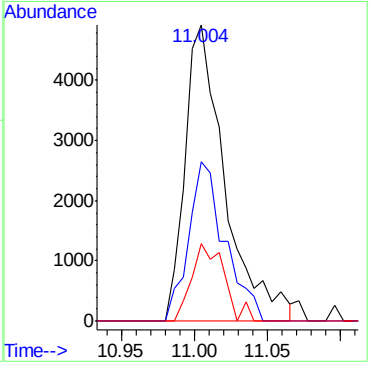


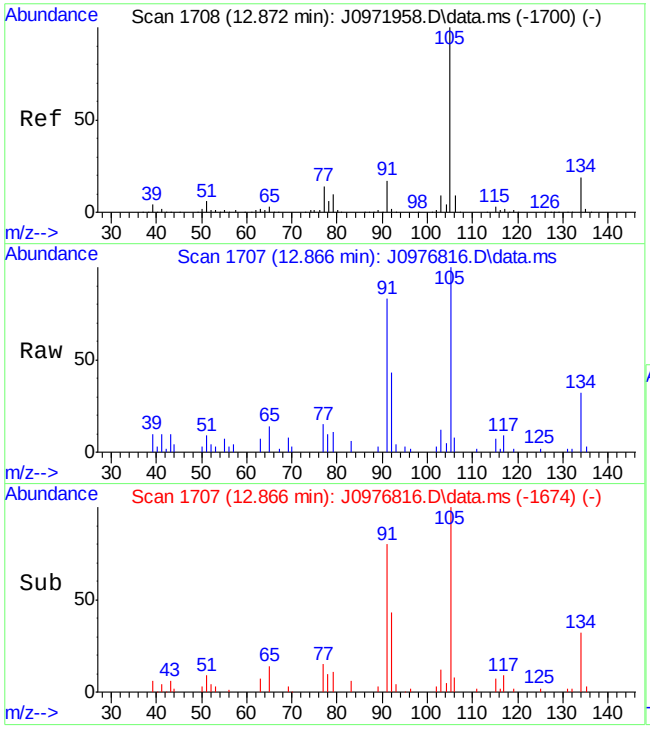


#73
m,p-Xylene
Concen: 0.32 ug/L m
RT: 11.004 min Scan# 1401
Delta R.T. 0.006 min
Lab File: J0976816.D
Acq: 26 May 2016 10:37 am

Tgt Ion: 91 Resp: 9324

Ion	Ratio	Lower	Upper
91	100		
106	53.8	23.8	83.8
105	26.0	0.0	54.2

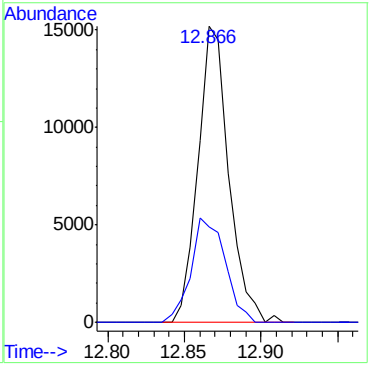


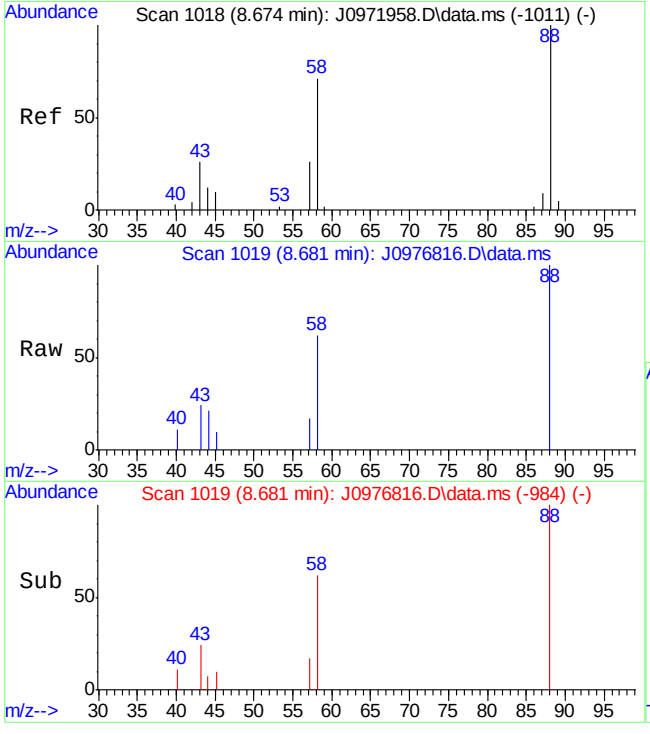


#94
sec-Butylbenzene
Concen: 0.68 ug/L
RT: 12.866 min Scan# 1707
Delta R.T. 0.000 min
Lab File: J0976816.D
Acq: 26 May 2016 10:37 am

Tgt Ion:105 Resp: 21251

Ion	Ratio	Lower	Upper
105	100		
134	32.4	0.0	49.8

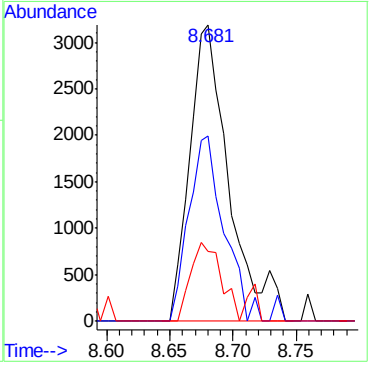




#112
1,4-Dioxane
Concen: 137.16 ug/L
RT: 8.681 min Scan# 1019
Delta R.T. 0.013 min
Lab File: J0976816.D
Acq: 26 May 2016 10:37 am

Tgt Ion: 88 Resp: 6927

Ion	Ratio	Lower	Upper
88	100		
58	62.4	37.7	97.7
43	23.5	0.0	50.3



Manual Integration Approval Summary

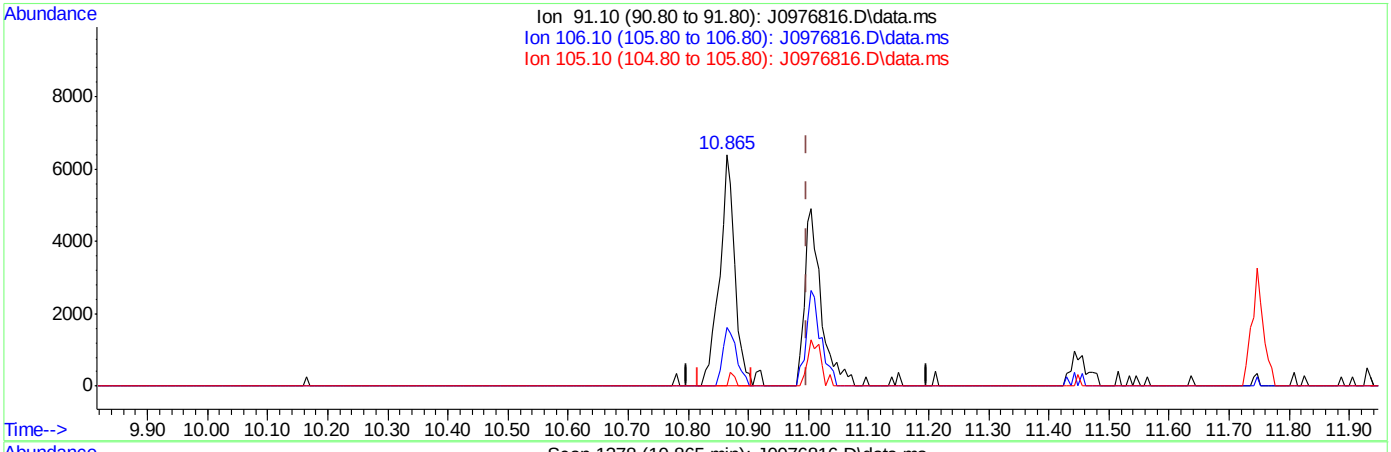
Sample Number:	FA34224-1	**Method:**	SW846 8260C
Lab FileID:	J0976816.D	**Analyst approved:**	05/26/16 14:03 Darshna Patel
Injection Time:	05/26/16 10:37	**Supervisor approved:**	05/26/16 17:43 Juan Garcia

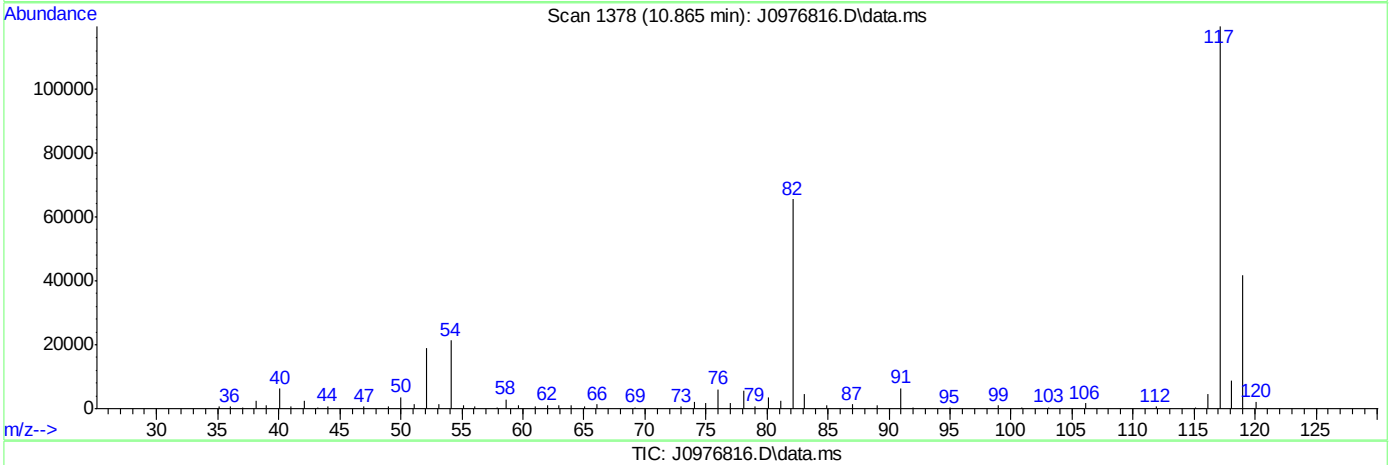
Parameter	CAS	Sig#	R.T. (min.)	Reason
m,p-Xylene			11.00	Poor instrument integration

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\052616\
Data File : J0976816.D
Acq On : 26 May 2016 10:37 am
Operator : DARSHNAP
Sample : fa34224-1 ma Inst : MSVOA6
Misc : MS34002,VJ5316,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 26 13:38:41 2016
Quant Method : C:\msdchem\2\methods\MSJ052316a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed May 25 09:12:25 2016
Response via : Initial Calibration





TIC: J0976816.D\data.ms

(73) m,p-Xylene ( )

10.865min (-0.133) 0.39ug/L

response 11283

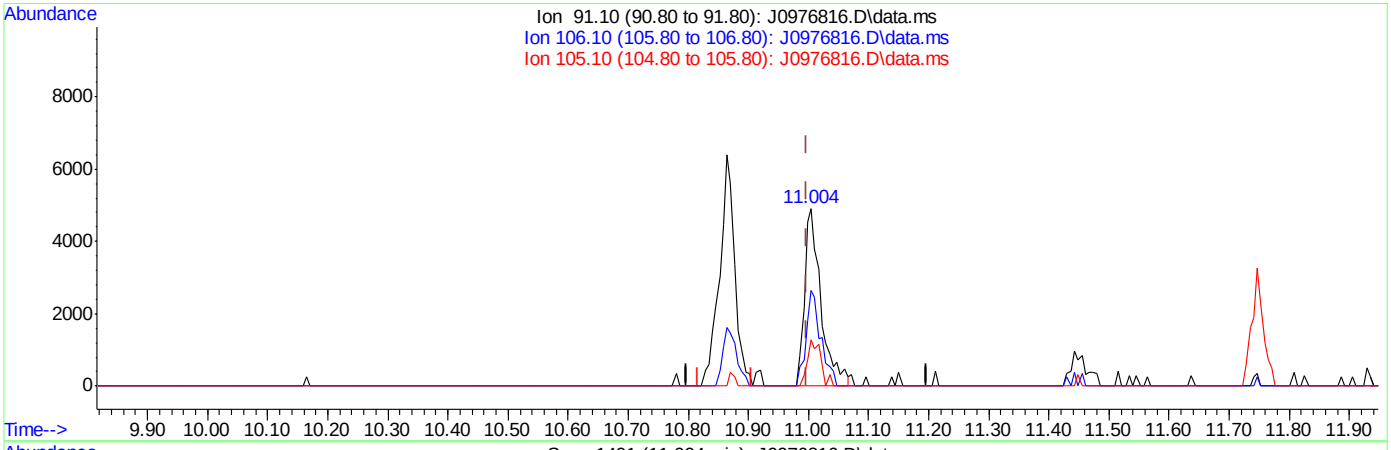
Ion	Exp%	Act%
91.10	100	100
106.10	53.80	25.26
105.10	24.20	0.00
0.00	0.00	0.00

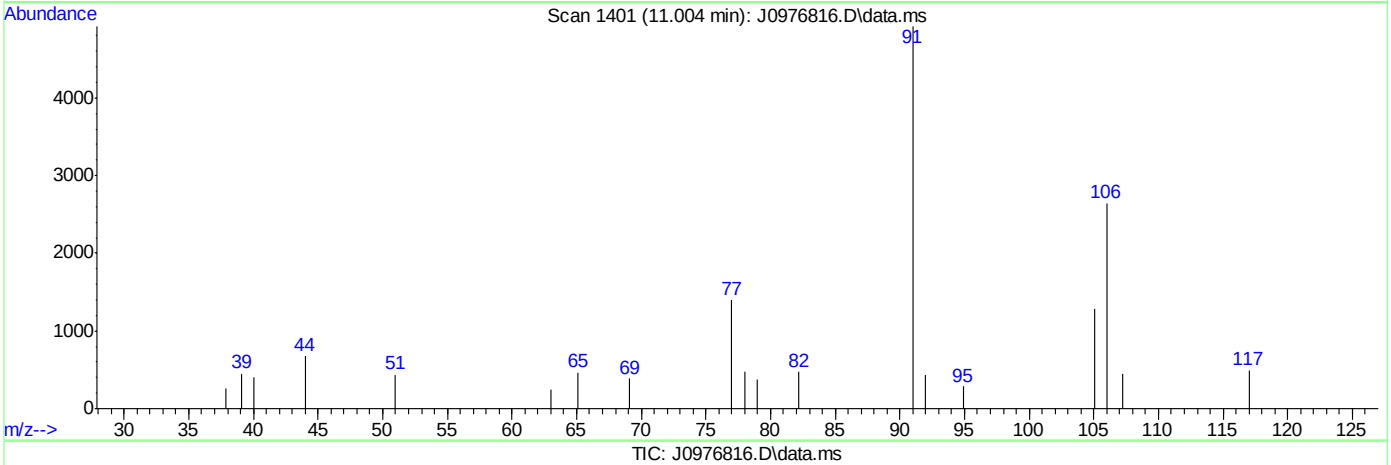
SGS ACCUTEST FA34224

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\052616\
Data File : J0976816.D
Acq On : 26 May 2016 10:37 am
Operator : DARSHNAP
Sample : fa34224-1 ma Inst : MSVOA6
Misc : MS34002,VJ5316,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 26 13:38:41 2016
Quant Method : C:\msdchem\2\methods\MSJ052316a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed May 25 09:12:25 2016
Response via : Initial Calibration





TIC: J0976816.D\data.ms

(73) m,p-Xylene ( )

11.004min (+0.006) 0.32ug/L m

response 9324

Ion	Exp%	Act%
91.10	100	100
106.10	53.80	53.80
105.10	24.20	26.03
0.00	0.00	0.00

SGS ACCUTEST FA34224

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\052616\
Data File : J0976817.D
Acq On : 26 May 2016 11:00 am
Operator : DARSHNAP
Sample : fa34224-2 ma Inst : MSVOA6
Misc : MS34002,VJ5316,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 26 13:42:35 2016
Quant Method : C:\msdchem\2\methods\MSJ052316a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed May 25 09:12:25 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.756	96	1109535	50.00	ug/L	0.00
56) Chlorobenzene-d5	10.846	117	899887	50.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	13.201	152	470828	50.00	ug/L	0.00
106) Tert Butyl Alcohol-d10	5.298	65	58093	250.00	ug/L	-0.01
System Monitoring Compounds						
36) Dibromofluoromethane	6.922	113	284441	50.64	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 101.28%			
46) 1,2-Dichloroethane-d4	7.476	65	322806	50.98	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 101.96%			
57) Toluene-d8	9.301	98	1136248	49.93	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 99.86%			
79) 4-Bromofluorobenzene	12.051	95	447221	51.54	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 103.08%			

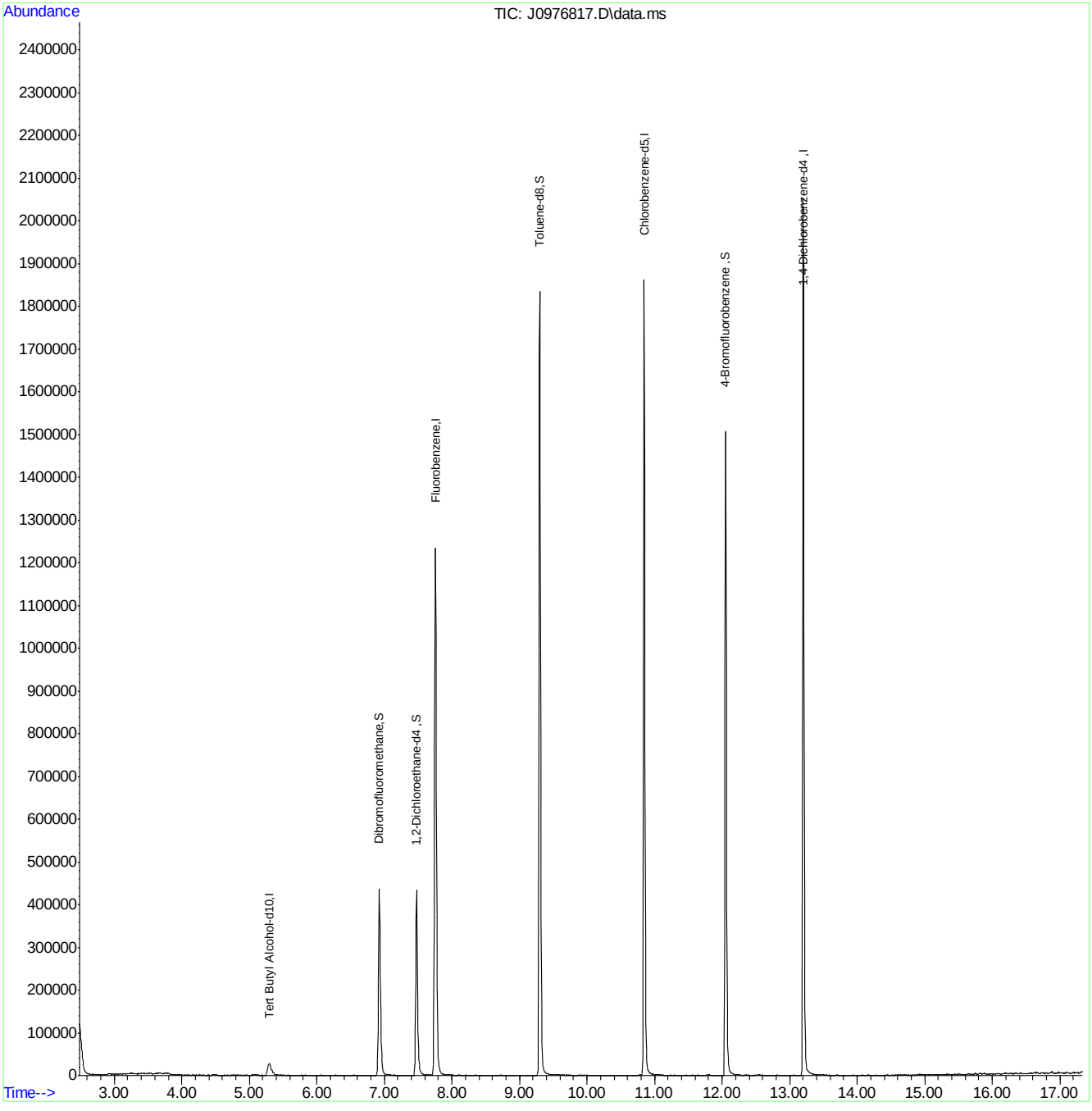
Target Compounds Qvalue

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\052616\
Data File : J0976817.D
Acq On : 26 May 2016 11:00 am
Operator : DARSHNAP
Sample : fa34224-2 ma Inst : MSVOA6
Misc : MS34002,VJ5316,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 26 13:42:35 2016
Quant Method : C:\msdchem\2\methods\MSJ052316a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed May 25 09:12:25 2016
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\052616\
Data File : Y28868.D
Acq On : 26 May 2016 11:20 am
Operator : ericp
Sample : FA34224-3 MA Inst : MSVOA14
Misc : MS34004,VY1166,4.98,,,5,,
ALS Vial : 11 Sample Multiplier: 1

Quant Time: May 26 12:17:40 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

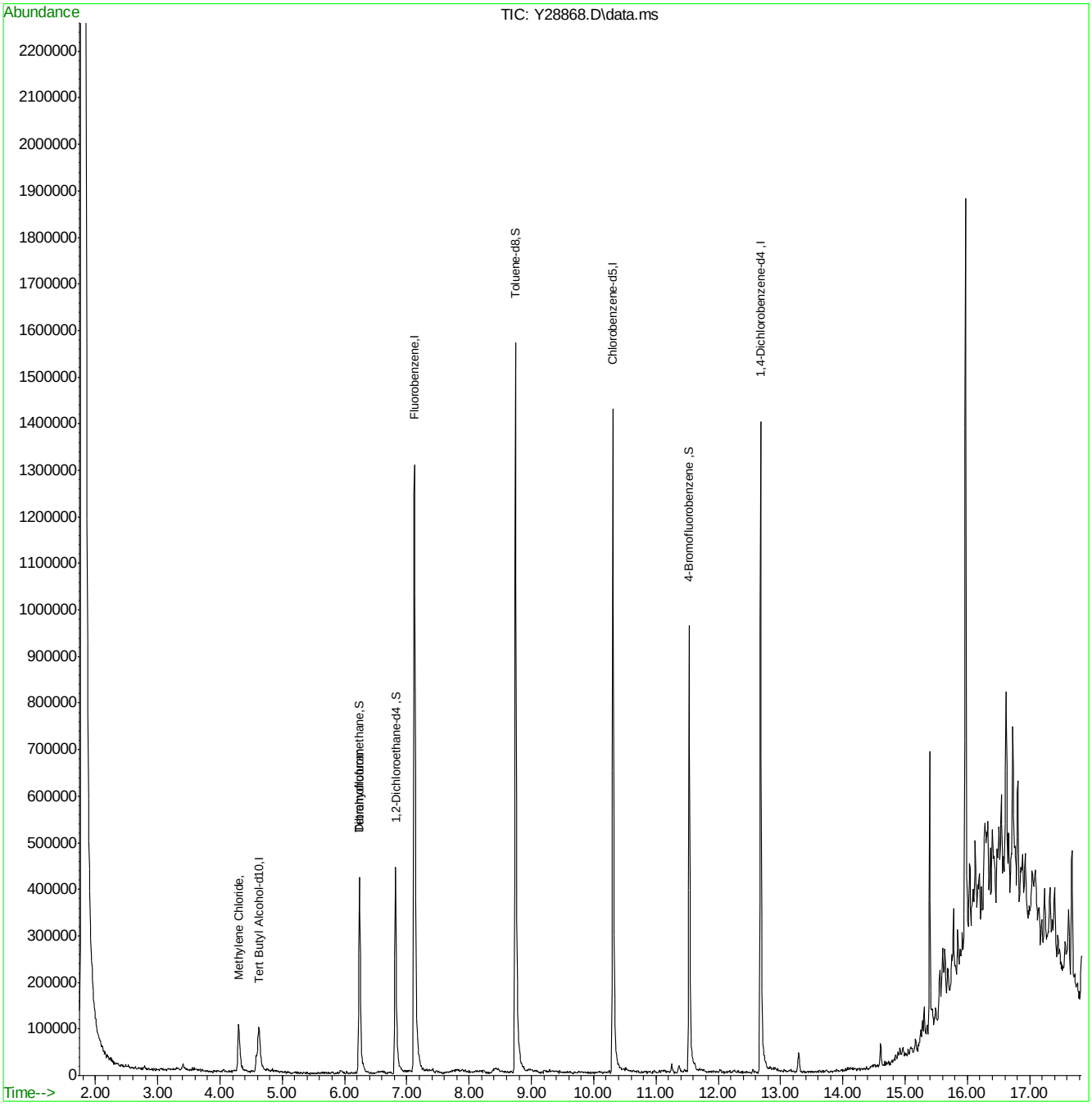
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	7.123	96	1173671	50.00	ug/Kg	0.00
54) Chlorobenzene-d5	10.311	117	735580	50.00	ug/Kg	0.00
76) 1,4-Dichlorobenzene-d4	12.677	152	327524	50.00	ug/Kg	0.00
103) Tert Butyl Alcohol-d10	4.623	65	141751	250.00	ug/Kg	-0.02
System Monitoring Compounds						
35) Dibromofluoromethane	6.241	113	268132	49.62	ug/Kg	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 99.24%			
44) 1,2-Dichloroethane-d4	6.819	65	306936	53.53	ug/Kg	0.00
Spiked Amount 50.000	Range 72 - 135		Recovery = 107.06%			
55) Toluene-d8	8.741	98	1023278	49.37	ug/Kg	0.00
Spiked Amount 50.000	Range 75 - 126		Recovery = 98.74%			
77) 4-Bromofluorobenzene	11.534	174	228360	51.17	ug/Kg	0.00
Spiked Amount 50.000	Range 71 - 133		Recovery = 102.34%			
Target Compounds						Qvalue
15) Methylene Chloride	4.300	49	74289	7.35	ug/Kg	89
34) Tetrahydrofuran	6.241	42	4012	2.34	ug/Kg	70

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

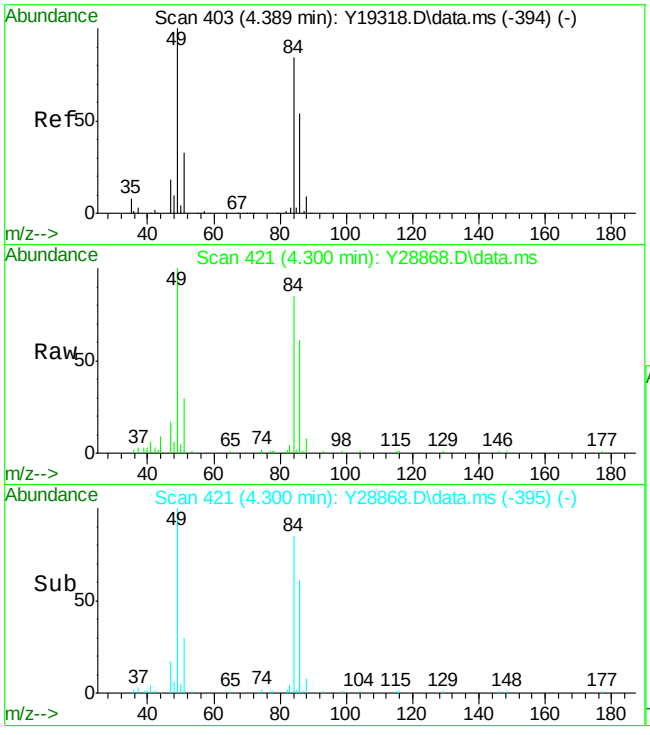
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\052616\
Data File : Y28868.D
Acq On : 26 May 2016 11:20 am
Operator : ericp
Sample : FA34224-3 MA Inst : MSVOA14
Misc : MS34004,VY1166,4.98,,,5,,
ALS Vial : 11 Sample Multiplier: 1

Quant Time: May 26 12:17:40 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



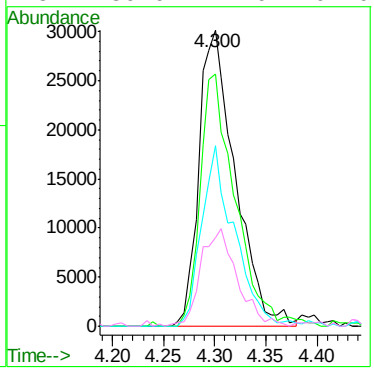
SGS ACCUTEST FA34224

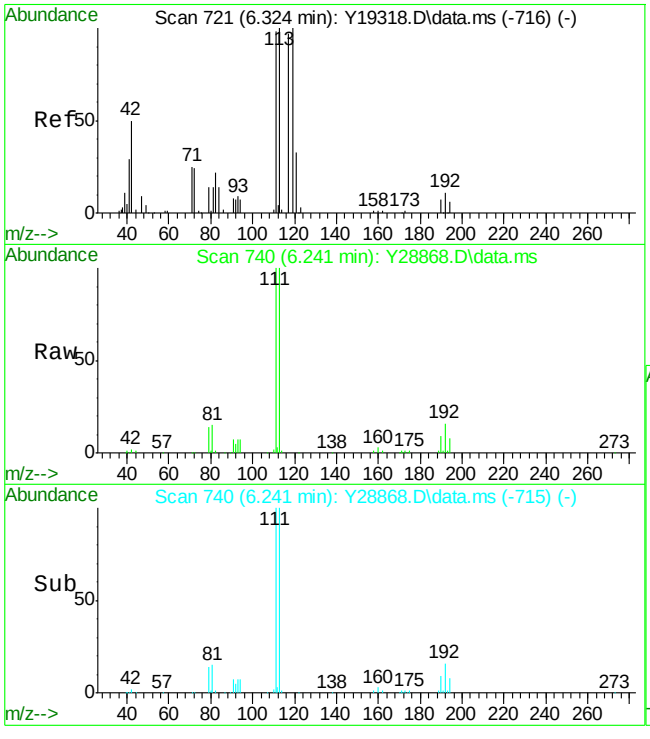


#15
Methylene Chloride
Concen: 7.35 ug/Kg
RT: 4.300 min Scan# 421
Delta R.T. 0.007 min
Lab File: Y28868.D
Acq: 26 May 2016 11:20 am

Tgt Ion: 49 Resp: 74289

Ion	Ratio	Lower	Upper
49	100		
84	85.3	45.9	105.9
86	61.2	19.4	79.4
51	30.0	1.0	61.0

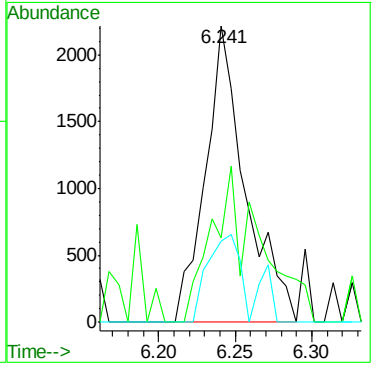




#34
Tetrahydrofuran
Concen: 2.34 ug/Kg
RT: 6.241 min Scan# 740
Delta R.T. 0.001 min
Lab File: Y28868.D
Acq: 26 May 2016 11:20 am

Tgt Ion: 42 Resp: 4012

Ion	Ratio	Lower	Upper
42	100		
41	28.4	20.9	80.9
72	27.2	14.3	74.3



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\052616\
Data File : Y28869.D
Acq On : 26 May 2016 11:46 am
Operator : ericp
Sample : FA34224-4 MA Inst : MSVOA14
Misc : MS34004,VY1166,5.46,,,5,,
ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 26 12:18:06 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	1251818	50.00	ug/Kg	0.00
54) Chlorobenzene-d5	10.309	117	801777	50.00	ug/Kg	0.00
76) 1,4-Dichlorobenzene-d4	12.682	152	359491	50.00	ug/Kg	0.00
103) Tert Butyl Alcohol-d10	4.627	65	156381	250.00	ug/Kg	-0.02

System Monitoring Compounds						
35) Dibromofluoromethane	6.240	113	285734	49.58	ug/Kg	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 99.16%			
44) 1,2-Dichloroethane-d4	6.817	65	314360	51.40	ug/Kg	0.00
Spiked Amount 50.000	Range 72 - 135		Recovery = 102.80%			
55) Toluene-d8	8.746	98	1116090	49.40	ug/Kg	0.00
Spiked Amount 50.000	Range 75 - 126		Recovery = 98.80%			
77) 4-Bromofluorobenzene	11.532	174	258501	52.77	ug/Kg	0.00
Spiked Amount 50.000	Range 71 - 133		Recovery = 105.54%			

Target Compounds						Qvalue
15) Methylene Chloride	4.299	49	93032	8.63	ug/Kg	93
19) Hexane	4.591	56	11449	1.35	ug/Kg	81
34) Tetrahydrofuran	6.246	42	2860	1.56	ug/Kg	63

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

7.1.4

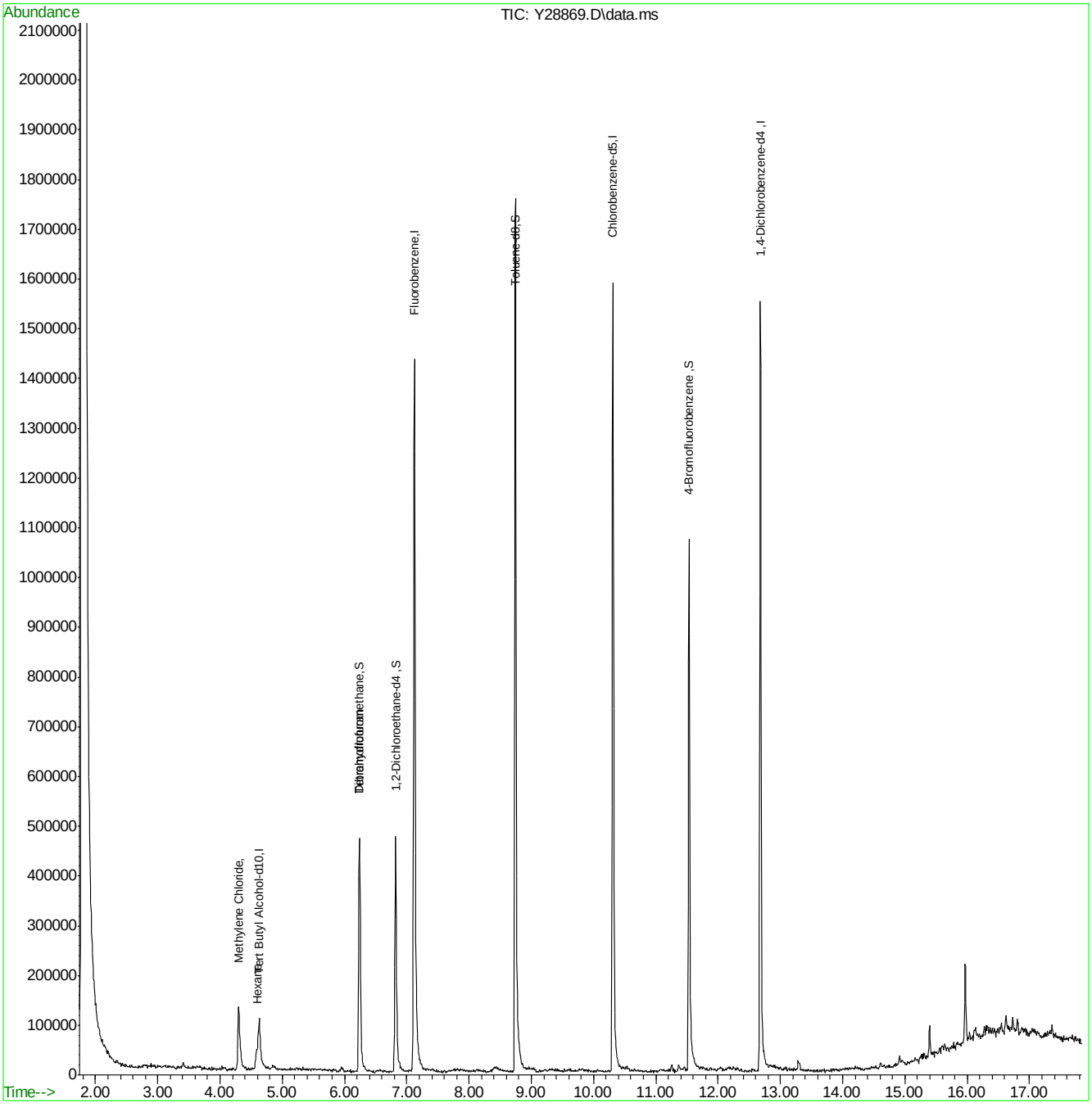
7

SGS ACCUTEST FA34224

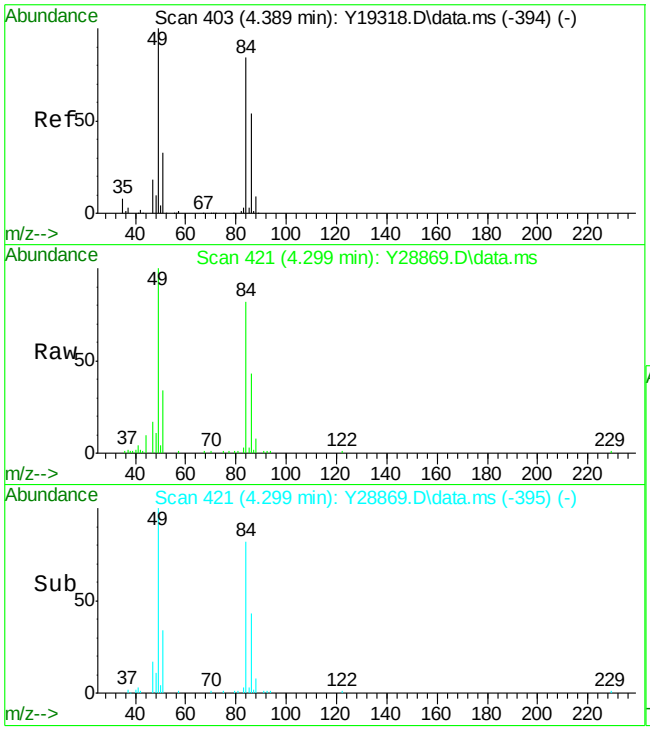
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\052616\
Data File : Y28869.D
Acq On : 26 May 2016 11:46 am
Operator : ericp
Sample : FA34224-4 MA Inst : MSVOA14
Misc : MS34004,VY1166,5.46,,,5,,
ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 26 12:18:06 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



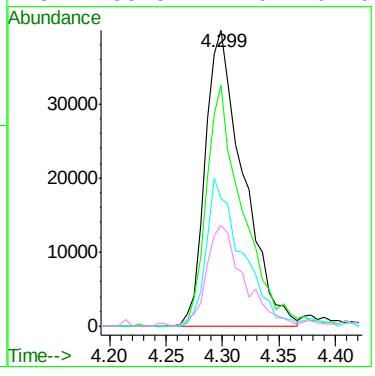
SGS ACCUTEST FA34224

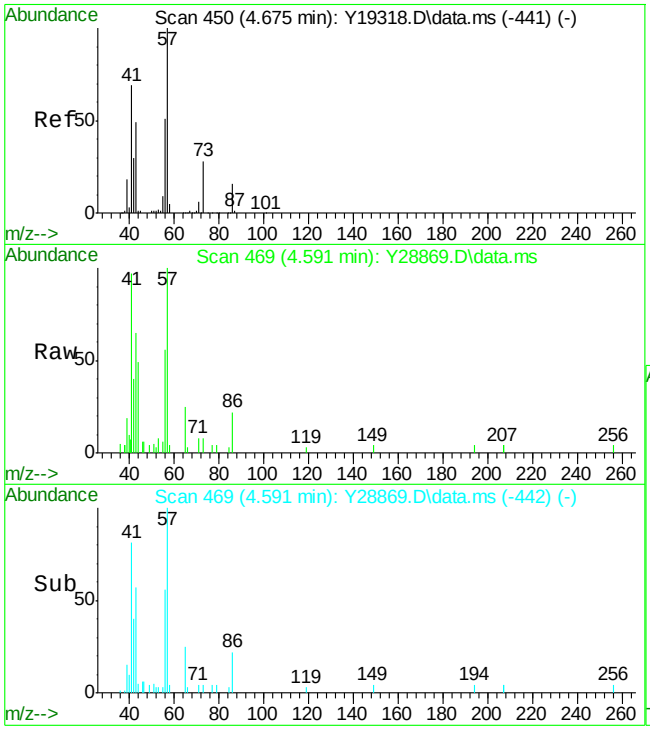


#15
Methylene Chloride
Concen: 8.63 ug/Kg
RT: 4.299 min Scan# 421
Delta R.T. 0.005 min
Lab File: Y28869.D
Acq: 26 May 2016 11:46 am

Tgt Ion: 49 Resp: 93032

Ion	Ratio	Lower	Upper
49	100		
84	81.6	45.9	105.9
86	43.4	19.4	79.4
51	33.5	1.0	61.0

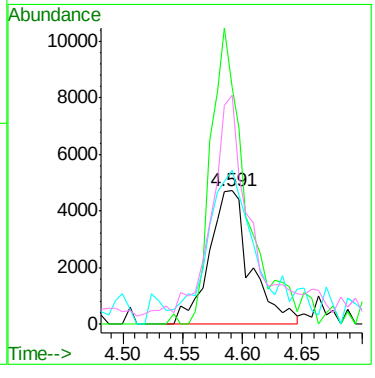


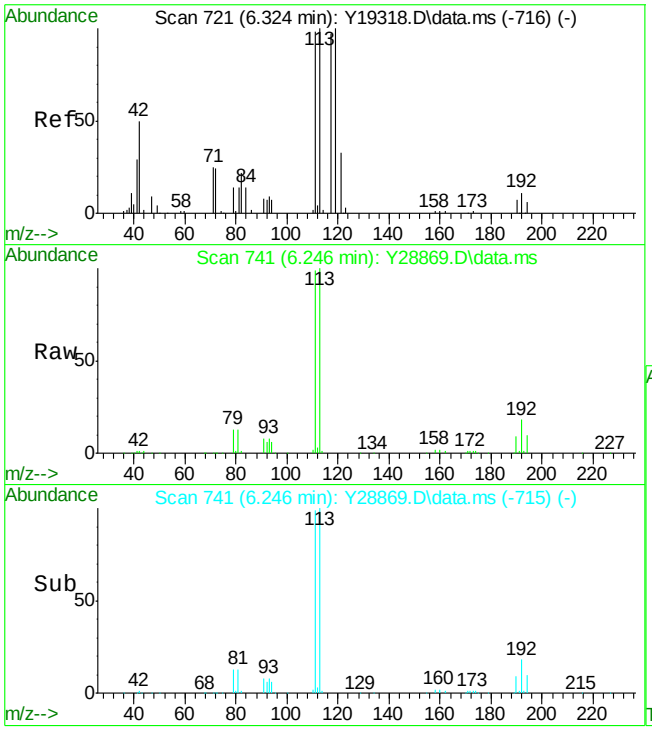


#19
Hexane
Concen: 1.35 ug/Kg
RT: 4.591 min Scan# 469
Delta R.T. 0.011 min
Lab File: Y28869.D
Acq: 26 May 2016 11:46 am

Tgt Ion: 56 Resp: 11449

Ion	Ratio	Lower	Upper
56	100		
57	177.9	155.3	255.3
43	105.6	83.6	183.6
41	157.9	87.9	187.9

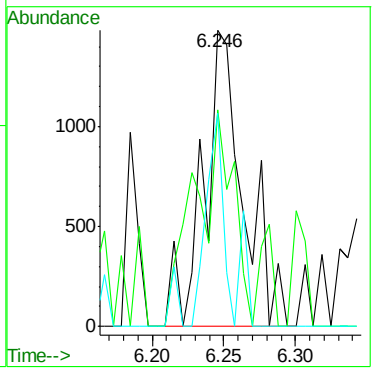




#34
Tetrahydrofuran
Concen: 1.56 ug/Kg
RT: 6.246 min Scan# 741
Delta R.T. 0.005 min
Lab File: Y28869.D
Acq: 26 May 2016 11:46 am

Tgt Ion: 42 Resp: 2860

Ion	Ratio	Lower	Upper
42	100		
41	73.1	20.9	80.9
72	72.0	14.3	74.3



7.1.4

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\052616\
Data File : Y28870.D
Acq On : 26 May 2016 12:12 pm
Operator : ericp
Sample : FA34224-5 MA Inst : MSVOA14
Misc : MS34004,VY1166,5.80,,,5,,
ALS Vial : 13 Sample Multiplier: 1

Quant Time: May 26 12:54:01 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

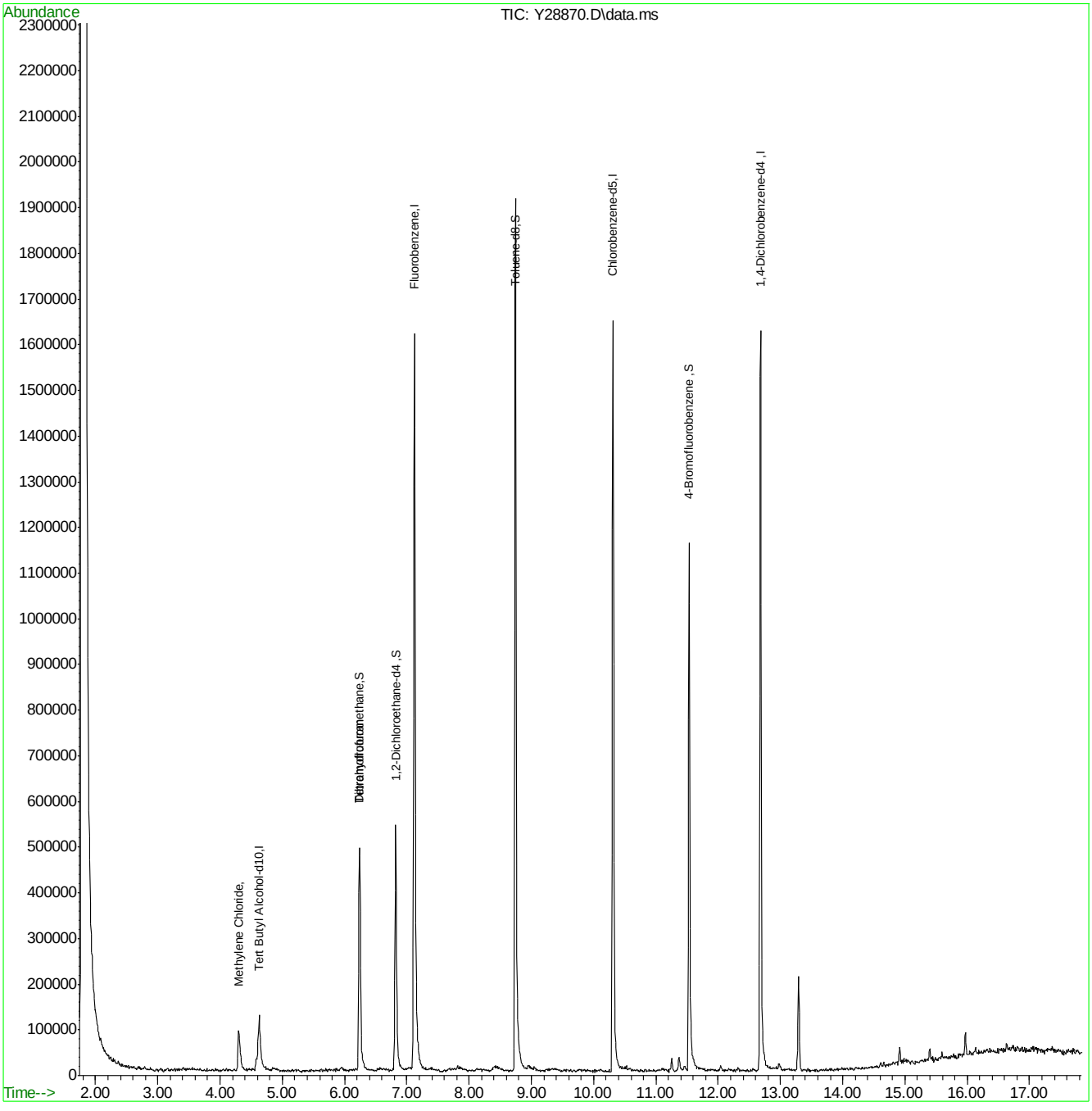
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	7.121	96	1376958	50.00	ug/Kg	0.00
54) Chlorobenzene-d5	10.309	117	826653	50.00	ug/Kg	0.00
76) 1,4-Dichlorobenzene-d4	12.681	152	371857	50.00	ug/Kg	0.00
103) Tert Butyl Alcohol-d10	4.627	65	180451	250.00	ug/Kg	-0.02
System Monitoring Compounds						
35) Dibromofluoromethane	6.239	113	310628	49.00	ug/Kg	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 98.00%			
44) 1,2-Dichloroethane-d4	6.817	65	365440	54.33	ug/Kg	0.00
Spiked Amount 50.000	Range 72 - 135		Recovery = 108.66%			
55) Toluene-d8	8.745	98	1192871	51.21	ug/Kg	0.00
Spiked Amount 50.000	Range 75 - 126		Recovery = 102.42%			
77) 4-Bromofluorobenzene	11.531	174	266778	52.65	ug/Kg	0.00
Spiked Amount 50.000	Range 71 - 133		Recovery = 105.30%			
Target Compounds						Qvalue
15) Methylene Chloride	4.298	49	75000	6.32	ug/Kg	90
34) Tetrahydrofuran	6.245	42	5033	2.50	ug/Kg	69

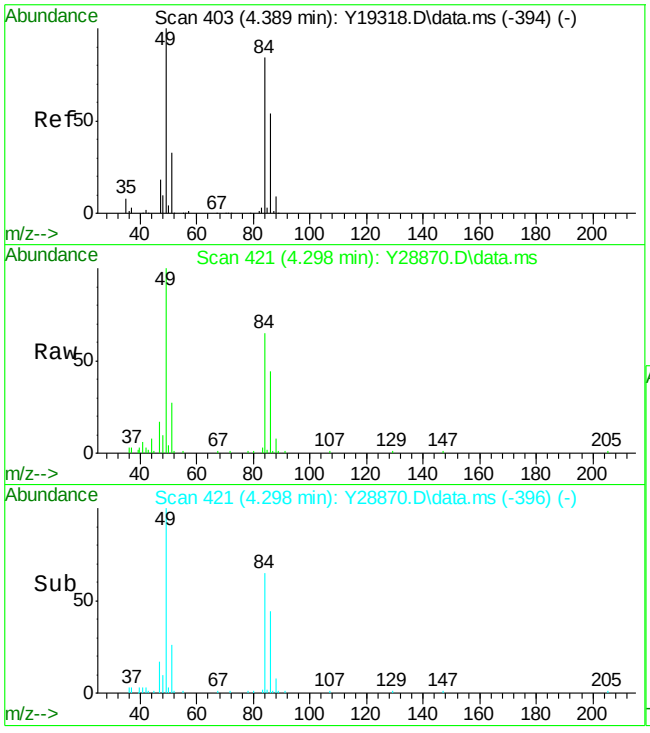
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\052616\
Data File : Y28870.D
Acq On : 26 May 2016 12:12 pm
Operator : ericp
Sample : FA34224-5 MA Inst : MSVOA14
Misc : MS34004,VY1166,5.80,,,5,,
ALS Vial : 13 Sample Multiplier: 1

Quant Time: May 26 12:54:01 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

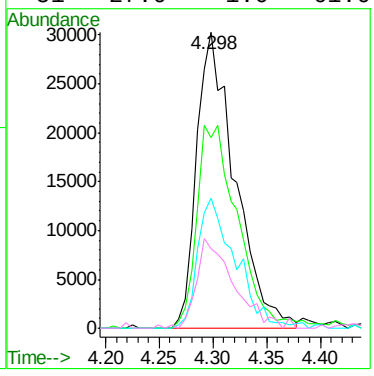


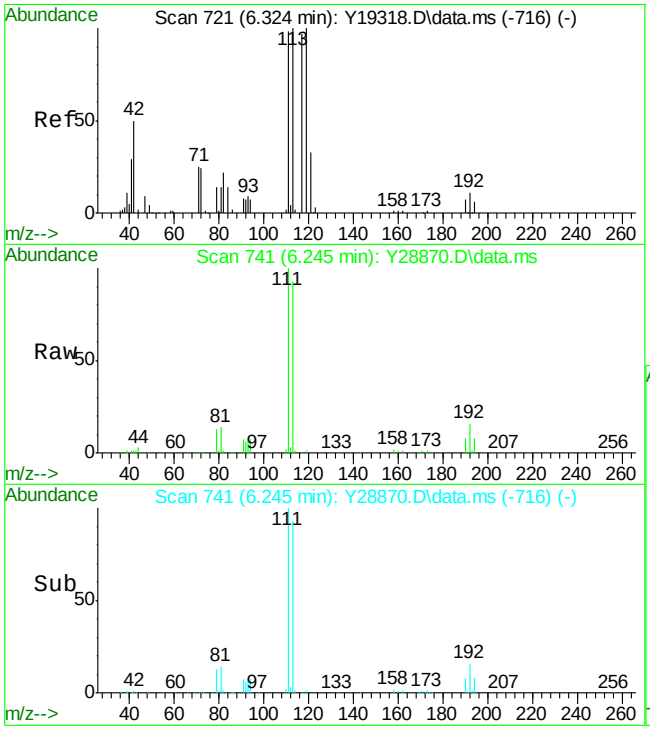


#15
Methylene Chloride
Concen: 6.32 ug/Kg
RT: 4.298 min Scan# 421
Delta R.T. 0.005 min
Lab File: Y28870.D
Acq: 26 May 2016 12:12 pm

Tgt Ion: 49 Resp: 75000

Ion	Ratio	Lower	Upper
49	100		
84	64.6	45.9	105.9
86	45.4	19.4	79.4
51	27.0	1.0	61.0

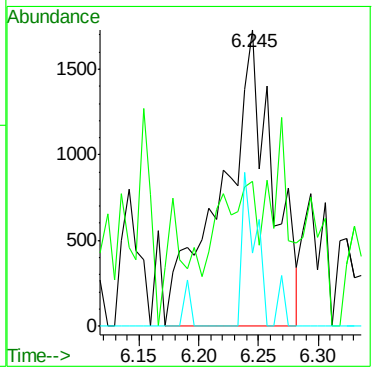




#34
Tetrahydrofuran
Concen: 2.50 ug/Kg
RT: 6.245 min Scan# 741
Delta R.T. 0.005 min
Lab File: Y28870.D
Acq: 26 May 2016 12:12 pm

Tgt Ion: 42 Resp: 5033

Ion	Ratio	Lower	Upper
42	100		
41	29.0	20.9	80.9
72	24.8	14.3	74.3



7.1.5

7

SGS ACCUTEST FA34224

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\052616\
Data File : J0976818.D
Acq On : 26 May 2016 11:23 am
Operator : DARSHNAP
Sample : fa34224-6 ma Inst : MSVOA6
Misc : MS34002,VJ5316,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 26 13:43:21 2016
Quant Method : C:\msdchem\2\methods\MSJ052316a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed May 25 09:12:25 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.756	96	1101020	50.00	ug/L	0.00
56) Chlorobenzene-d5	10.846	117	889324	50.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	13.207	152	469525	50.00	ug/L	0.00
106) Tert Butyl Alcohol-d10	5.304	65	62327	250.00	ug/L	0.00
System Monitoring Compounds						
36) Dibromofluoromethane	6.928	113	285426	51.21	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 102.42%			
46) 1,2-Dichloroethane-d4	7.482	65	321428	51.15	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 102.30%			
57) Toluene-d8	9.301	98	1151787	51.22	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 102.44%			
79) 4-Bromofluorobenzene	12.057	95	453984	52.46	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 104.92%			
Target Compounds						Qvalue
13) Carbon Disulfide	4.483	76	9556	0.44	ug/L	100
21) Methyl Tert Butyl Ether	5.334	73	726875	44.22	ug/L	87
32) Cyclohexane	6.734	56	38952	3.72	ug/L	90
35) Tetrahydrofuran	6.922	42	5255	5.12	ug/L	86
66) 1,3-Dichloropropane	10.189	76	2873	0.32	ug/L	82
77) Isopropylbenzene	11.746	105	11698	0.42	ug/L	90
109) Tert Butyl Alcohol	5.371	59	636361	Below Cal		74

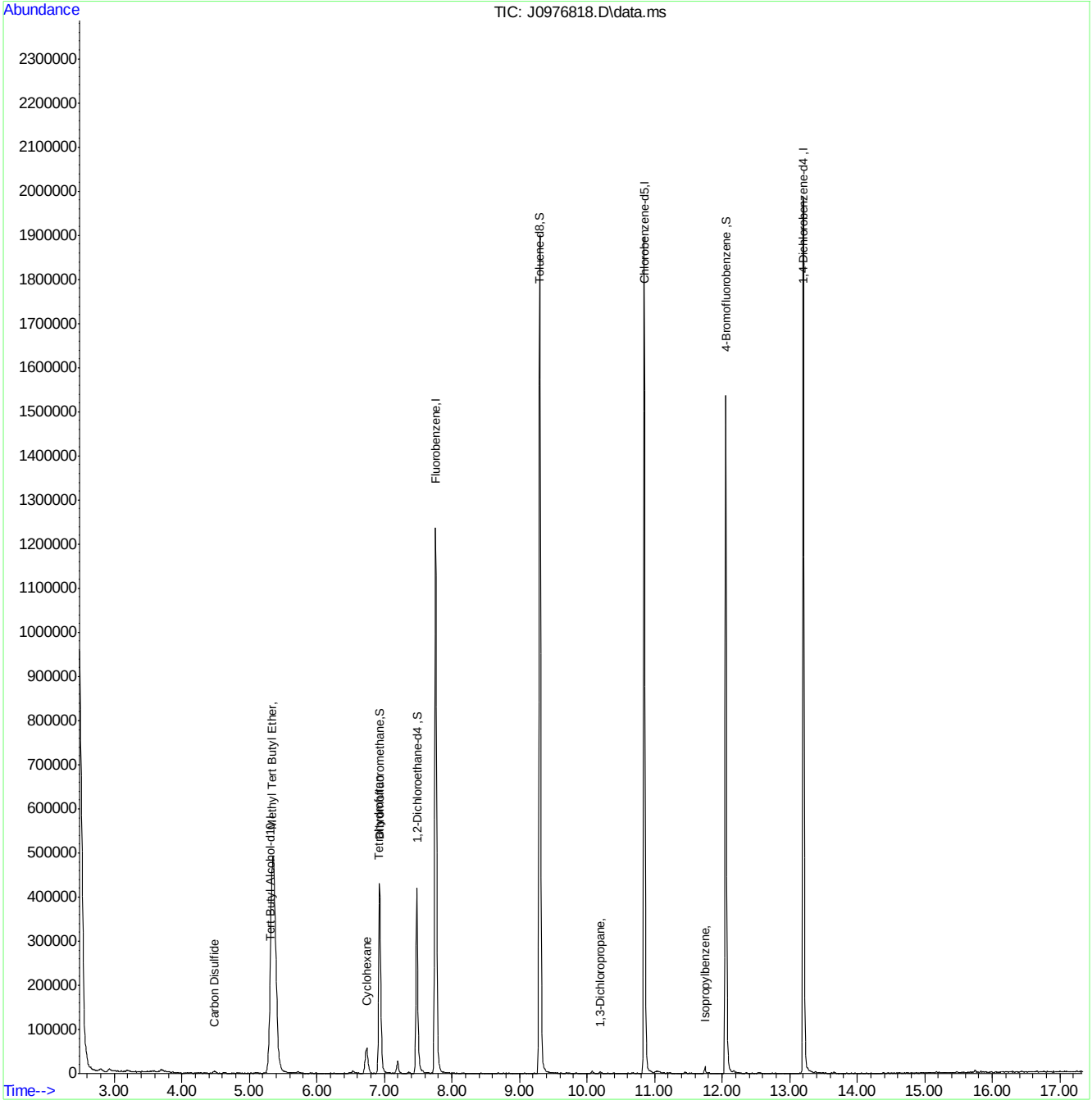
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST FA34224

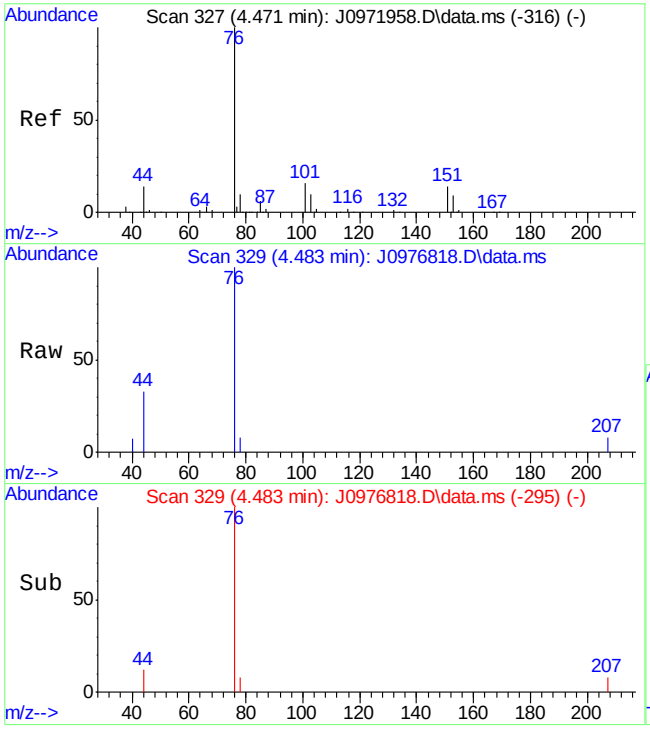
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\052616\
Data File : J0976818.D
Acq On : 26 May 2016 11:23 am
Operator : DARSHNAP
Sample : fa34224-6 ma Inst : MSVOA6
Misc : MS34002,VJ5316,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 26 13:43:21 2016
Quant Method : C:\msdchem\2\methods\MSJ052316a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed May 25 09:12:25 2016
Response via : Initial Calibration



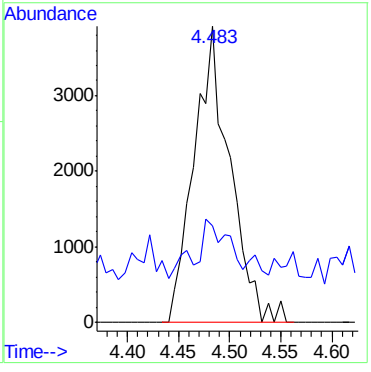
MSJ052316a.M Thu May 26 13:55:57 2016 Page: 2

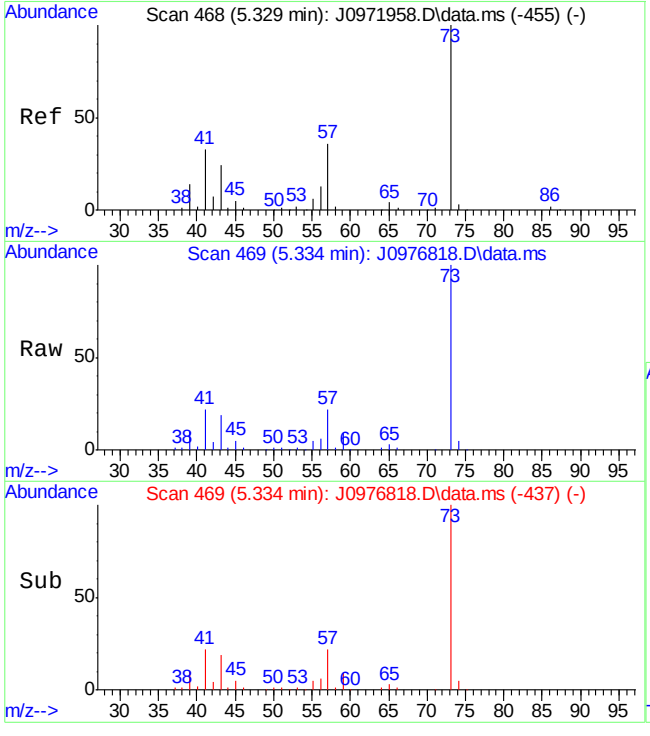


#13
Carbon Disulfide
Concen: 0.44 ug/L
RT: 4.483 min Scan# 329
Delta R.T. 0.006 min
Lab File: J0976818.D
Acq: 26 May 2016 11:23 am

Tgt Ion: 76 Resp: 9556

Ion	Ratio	Lower	Upper
76	100		
44	11.9	0.0	41.7

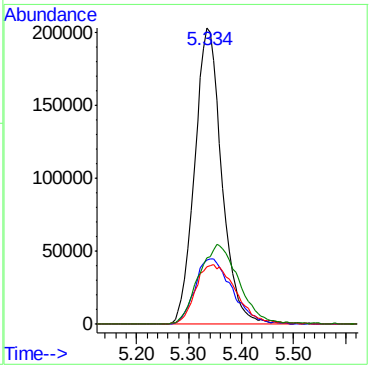


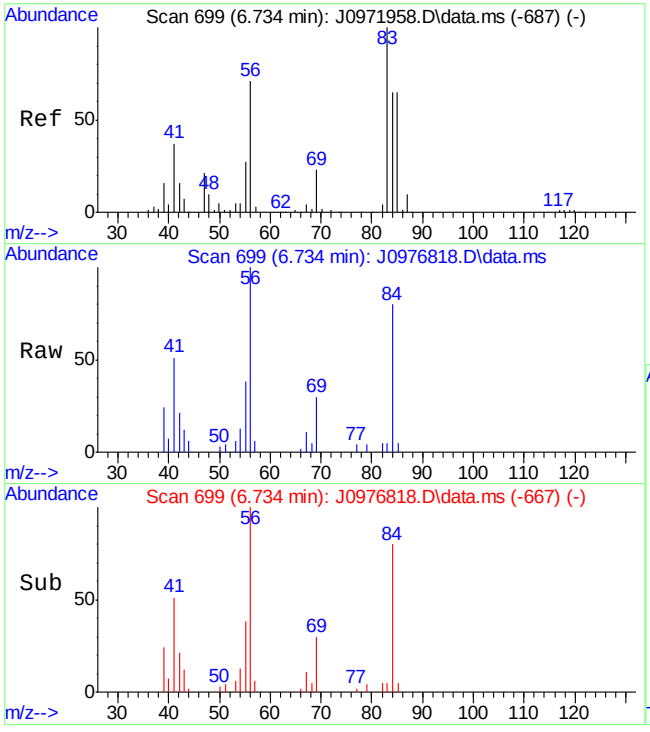


#21
Methyl Tert Butyl Ether
Concen: 44.22 ug/L
RT: 5.334 min Scan# 469
Delta R.T. -0.007 min
Lab File: J0976818.D
Acq: 26 May 2016 11:23 am

Tgt Ion: 73 Resp: 726875

Ion	Ratio	Lower	Upper
73	100		
57	21.8	2.4	62.4
43	19.4	0.0	55.1
41	22.3	0.0	56.4

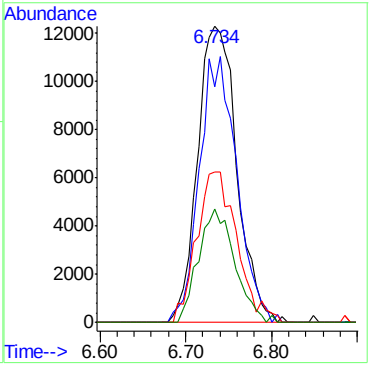


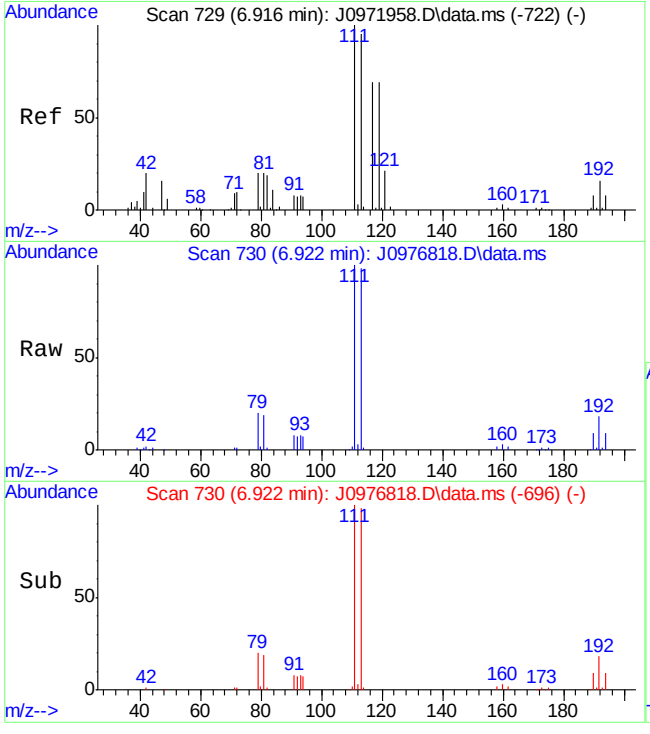


#32
Cyclohexane
Concen: 3.72 ug/L
RT: 6.734 min Scan# 699
Delta R.T. -0.006 min
Lab File: J0976818.D
Acq: 26 May 2016 11:23 am

Tgt Ion: 56 Resp: 38952

Ion	Ratio	Lower	Upper
56	100		
84	79.7	71.5	111.5
41	50.9	27.1	67.1
55	38.4	14.2	54.2

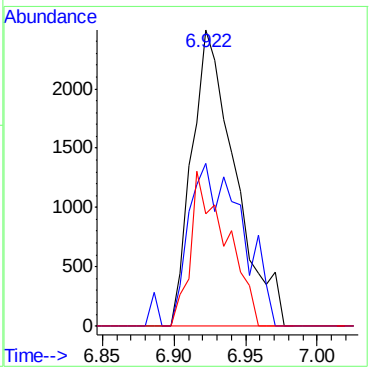


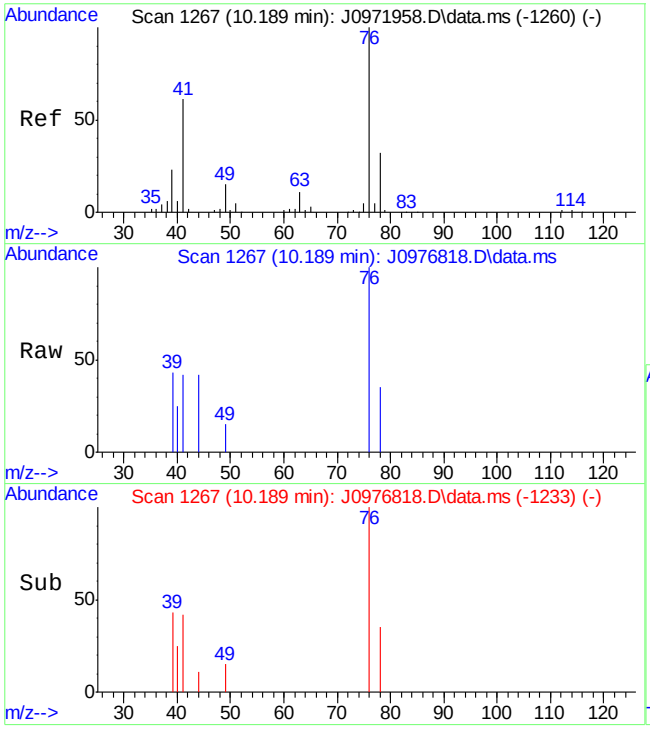


#35
Tetrahydrofuran
Concen: 5.12 ug/L
RT: 6.922 min Scan# 730
Delta R.T. 0.006 min
Lab File: J0976818.D
Acq: 26 May 2016 11:23 am

Tgt Ion: 42 Resp: 5255

Ion	Ratio	Lower	Upper
42	100		
41	55.0	43.0	83.0
72	37.7	30.4	70.4

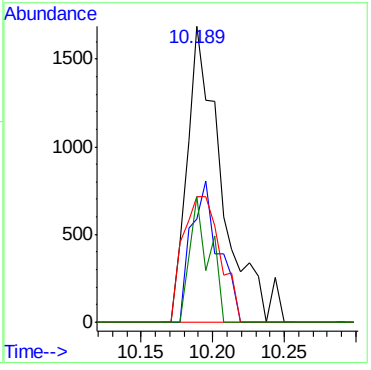


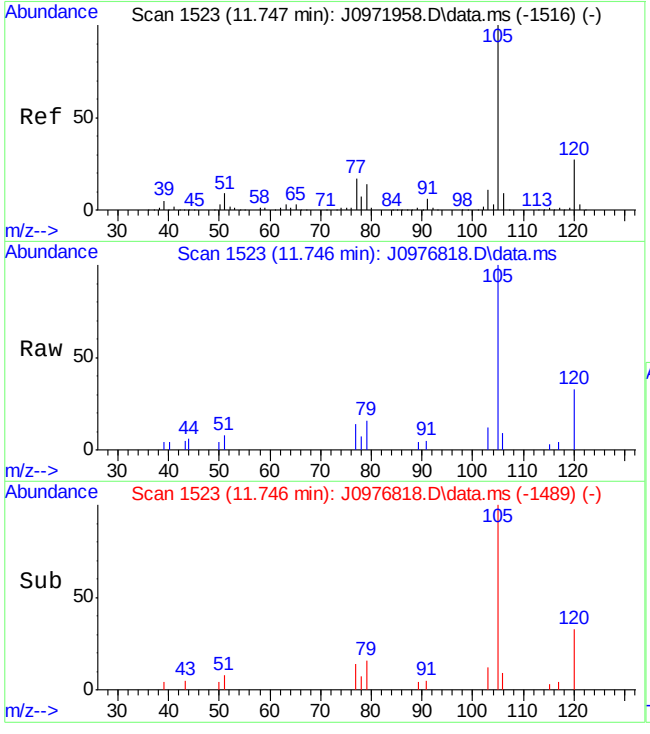


#66
1,3-Dichloropropane
Concen: 0.32 ug/L
RT: 10.189 min Scan# 1267
Delta R.T. 0.006 min
Lab File: J0976818.D
Acq: 26 May 2016 11:23 am

Tgt Ion: 76 Resp: 2873

Ion	Ratio	Lower	Upper
76	100		
78	34.8	2.9	62.9
41	42.4	21.9	81.9
39	42.6	0.0	48.3

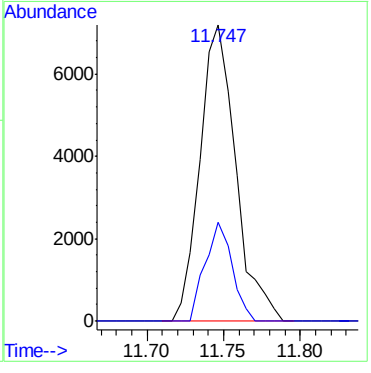




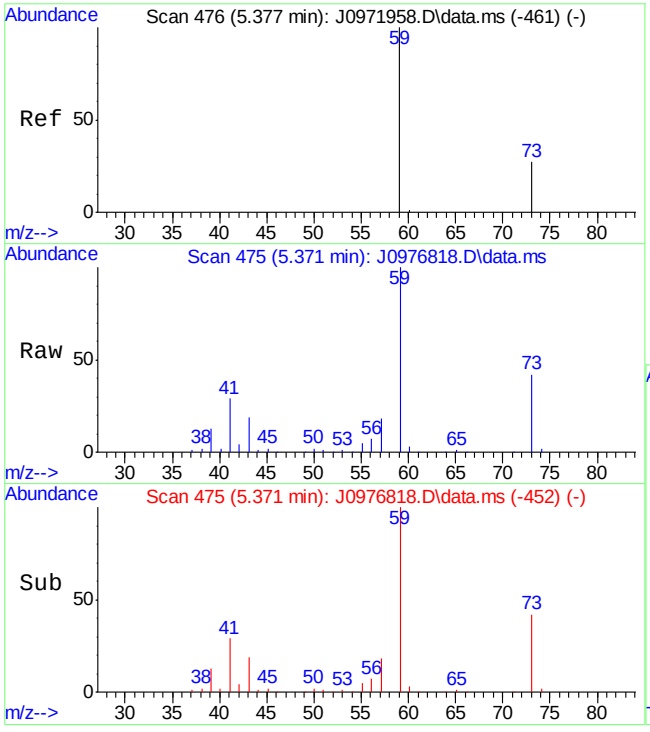
#77
Isopropylbenzene
Concen: 0.42 ug/L
RT: 11.746 min Scan# 1523
Delta R.T. 0.006 min
Lab File: J0976818.D
Acq: 26 May 2016 11:23 am

Tgt Ion:105 Resp: 11698

Ion	Ratio	Lower	Upper
105	100		
120	33.4	0.0	58.1



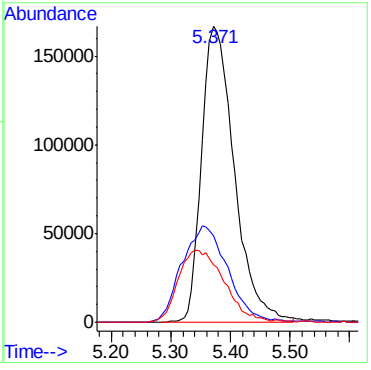
SGS ACCUTEST FA34224



#109
Tert Butyl Alcohol
Concen: Below Cal
RT: 5.371 min Scan# 475
Delta R.T. -0.012 min
Lab File: J0976818.D
Acq: 26 May 2016 11:23 am

Tgt Ion: 59 Resp: 636361

Ion	Ratio	Lower	Upper
59	100		
41	28.9	26.6	66.6
43	19.0	13.9	53.9



7.1.6

7

SGS ACCUTEST FA34224

Manual Integrations APPROVED (compounds with "m" flag)
Juan Garcia
05/26/16 17:45

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\052616\
Data File : J0976827.D
Acq On : 26 May 2016 2:48 pm
Operator : DARSHNAP
Sample : fa34224-6 ma Inst : MSVOA6
Misc : MS34002,VJ5316,,,,,20
ALS Vial : 11 Sample Multiplier: 1

Quant Time: May 26 16:39:55 2016
Quant Method : C:\msdchem\2\methods\MSJ052316a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed May 25 09:12:25 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.756	96	1095828	50.00	ug/L	0.00
56) Chlorobenzene-d5	10.846	117	885788	50.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	13.201	152	462659	50.00	ug/L	0.00
106) Tert Butyl Alcohol-d10	5.292	65	56679	250.00	ug/L	-0.02
System Monitoring Compounds						
36) Dibromofluoromethane	6.928	113	279934	50.46	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 100.92%			
46) 1,2-Dichloroethane-d4	7.476	65	320412	51.23	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 102.46%			
57) Toluene-d8	9.301	98	1143778	51.06	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 102.12%			
79) 4-Bromofluorobenzene	12.051	95	437852	51.35	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 102.70%			
Target Compounds						Qvalue
3) Chloromethane	2.871	50	2311	0.29	ug/L #	42
6) Bromomethane	3.449	94	3460	0.66	ug/L #	50
14) Iodomethane	4.586	142	3688	0.35	ug/L #	67
16) Methylene Chloride	5.049	49	19188	2.22	ug/L	97
19) trans-1,2-Dichloroethene	5.231	61	2420	0.29	ug/L	73
21) Methyl Tert Butyl Ether	5.335	73	30258	1.85	ug/L	88
23) Di-isopropyl ether	5.712	45	3868	0.21	ug/L	77
25) 1,1-Dichloroethane	5.894	63	3953	0.35	ug/L	78
29) cis-1,2-Dichloroethene	6.472	96	2117	0.29	ug/L	88
33) Chloroform	6.752	83	4055	0.33	ug/L	76
38) 1,1,1-Trichloroethane	6.995	97	2322	0.21	ug/L	97
44) Benzene	7.367	78	7398	0.28	ug/L	71
47) 1,2-Dichloroethane	7.555	62	2310	0.28	ug/L	85
48) Trichloroethene	7.944	95	2181	0.32	ug/L	85
51) 1,2-Dichloropropane	8.449	63	1672	0.25	ug/L	86
58) Toluene	9.350	91	11963	0.41	ug/L	97
70) Ethylbenzene	10.865	91	11637	0.34	ug/L	100
71) Chlorobenzene	10.871	112	6964	0.36	ug/L	87
73) m,p-Xylene	11.005	91	12801	0.47	ug/L	98
74) o-Xylene	11.443	91	5857	0.25	ug/L	85
81) n-Propylbenzene	12.166	91	7817	0.24	ug/L	98
82) Bromobenzene	12.185	156	2016	0.26	ug/L	91
84) 1,3,5-Trimethylbenzene	12.343	105	5448	0.23	ug/L	83
85) 2-Chlorotoluene	12.355	91	6872	0.29	ug/L	96
89) 4-Chlorotoluene	12.531	91	6274	0.29	ug/L	89
91) tert-Butylbenzene	12.684	91	3223	0.23	ug/L	90
92) 1,2,4-Trimethylbenzene	12.757	105	5121	0.21	ug/L	94
95) 4-Isopropyltoluene	13.000	119	7546	0.30	ug/L	96
96) 1,3-Dichlorobenzene	13.140	146	3846	0.29	ug/L	95
97) 1,4-Dichlorobenzene	13.219	146	4736m	0.33	ug/L	
100) 1,2-Dichlorobenzene	13.651	146	3095	0.25	ug/L	92
102) Hexachlorobutadiene	14.928	225	2097	0.38	ug/L	89
109) Tert Butyl Alcohol	5.377	59	24569	82.11	ug/L	74

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\052616\
Data File : J0976827.D
Acq On : 26 May 2016 2:48 pm
Operator : DARSHNAP
Sample : fa34224-6 ma Inst : MSVOA6
Misc : MS34002,VJ5316,,,,,20
ALS Vial : 11 Sample Multiplier: 1

Quant Time: May 26 16:39:55 2016
Quant Method : C:\msdchem\2\methods\MSJ052316a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed May 25 09:12:25 2016
Response via : Initial Calibration

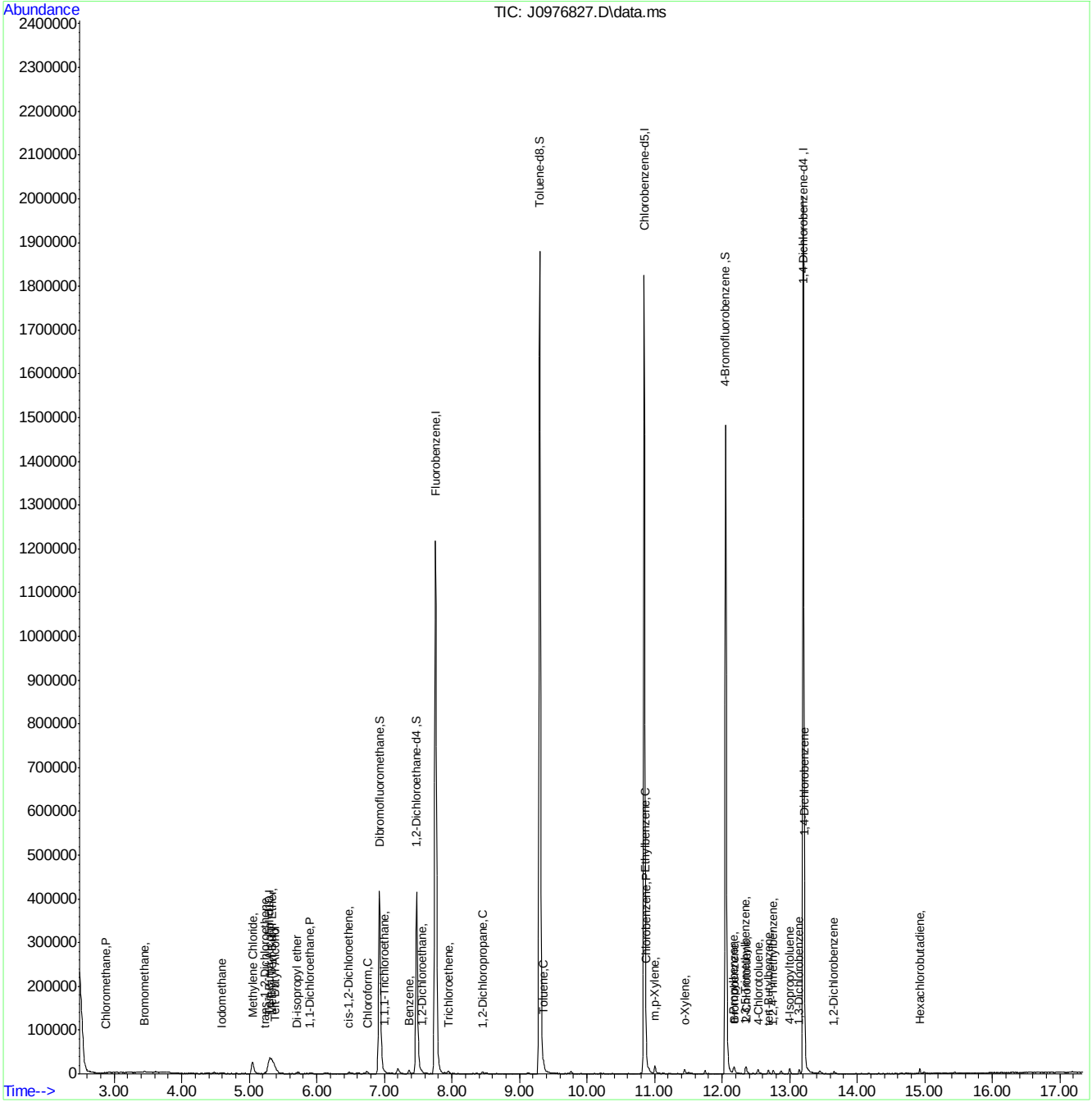
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

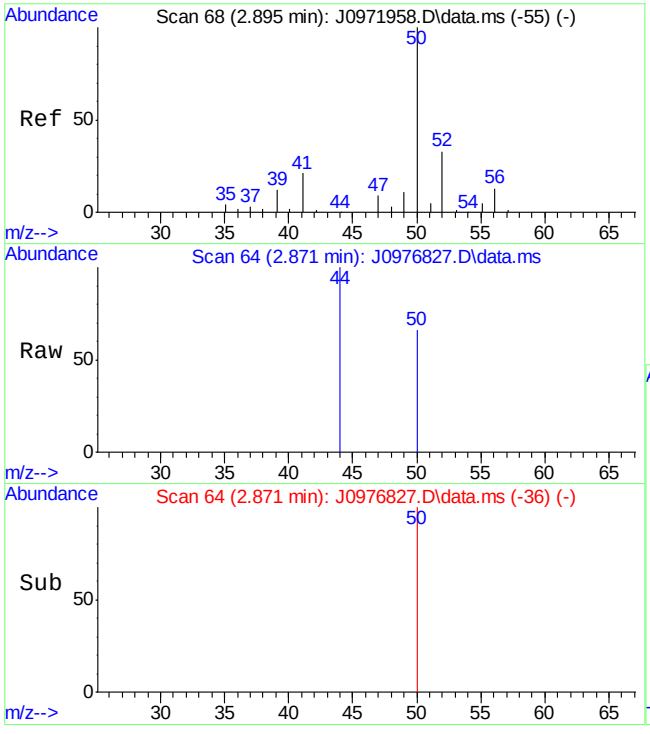
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\052616\
Data File : J0976827.D
Acq On : 26 May 2016 2:48 pm
Operator : DARSHNAP
Sample : fa34224-6 ma Inst : MSVOA6
Misc : MS34002,VJ5316,,,,,20
ALS Vial : 11 Sample Multiplier: 1

Quant Time: May 26 16:39:55 2016
Quant Method : C:\msdchem\2\methods\MSJ052316a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed May 25 09:12:25 2016
Response via : Initial Calibration



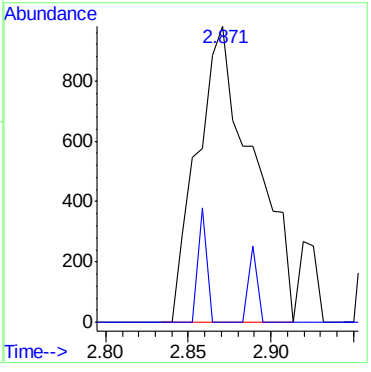
SGS ACCUTEST FA34224

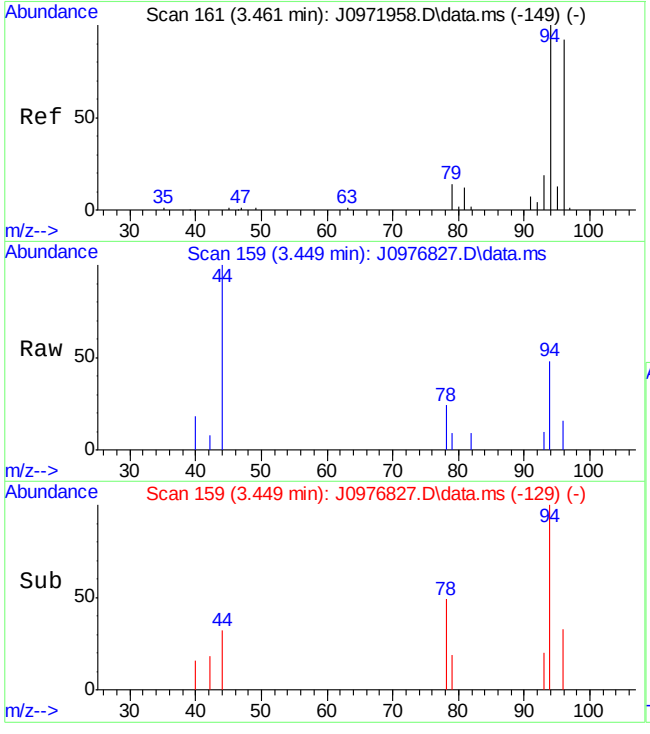


#3
Chloromethane
Concen: 0.29 ug/L
RT: 2.871 min Scan# 64
Delta R.T. -0.030 min
Lab File: J0976827.D
Acq: 26 May 2016 2:48 pm

Tgt Ion: 50 Resp: 2311

Ion	Ratio	Lower	Upper
50	100		
52	0.0	3.1	63.1#

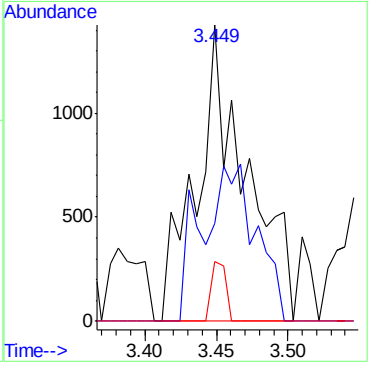


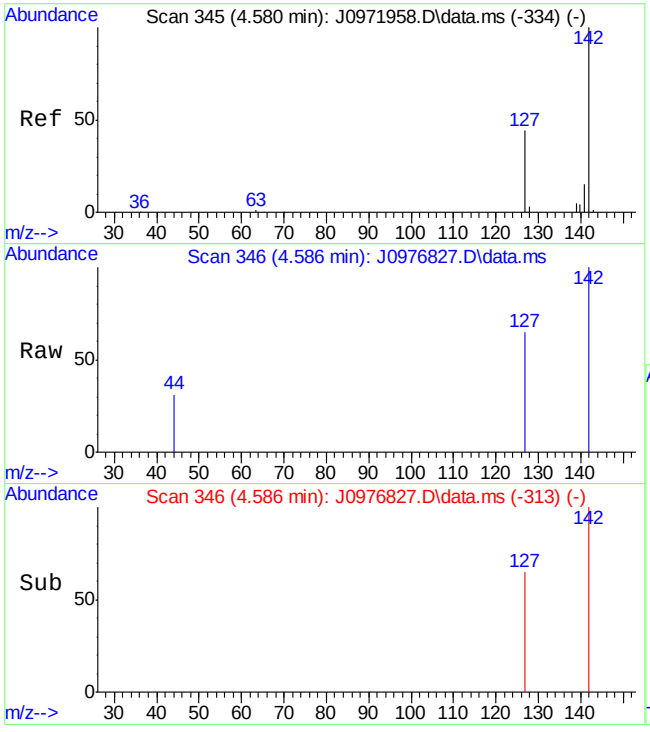


#6
Bromomethane
Concen: 0.66 ug/L
RT: 3.449 min Scan# 159
Delta R.T. -0.018 min
Lab File: J0976827.D
Acq: 26 May 2016 2:48 pm

Tgt Ion: 94 Resp: 3460

Ion	Ratio	Lower	Upper
94	100		
96	32.9	59.5	119.5#
93	20.0	0.0	48.8

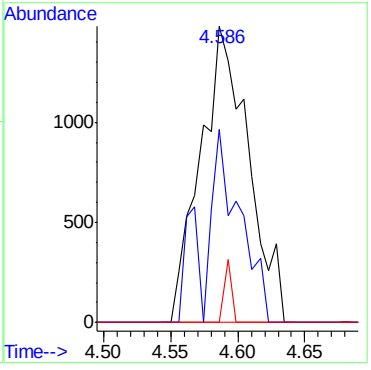


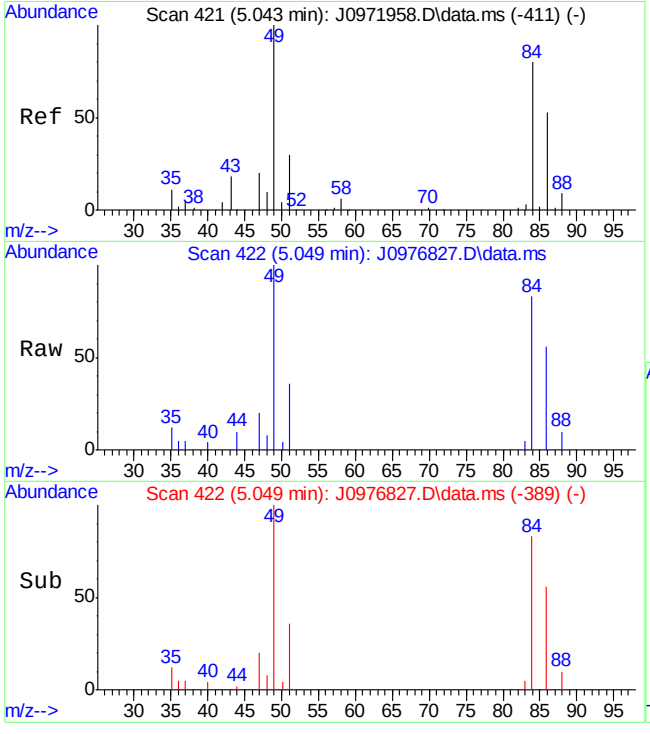


#14
Iodomethane
Concen: 0.35 ug/L
RT: 4.586 min Scan# 346
Delta R.T. 0.000 min
Lab File: J0976827.D
Acq: 26 May 2016 2:48 pm

Tgt Ion:142 Resp: 3688

Ion	Ratio	Lower	Upper
142	100		
127	65.2	24.2	64.2#
141	0.0	0.0	34.1

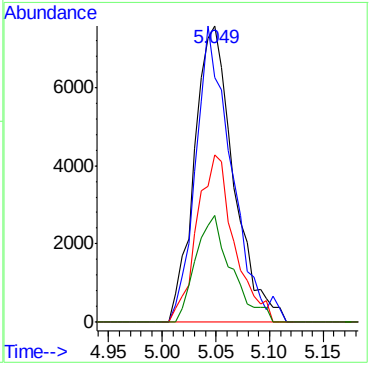




#16
Methylene Chloride
Concen: 2.22 ug/L
RT: 5.049 min Scan# 422
Delta R.T. 0.001 min
Lab File: J0976827.D
Acq: 26 May 2016 2:48 pm

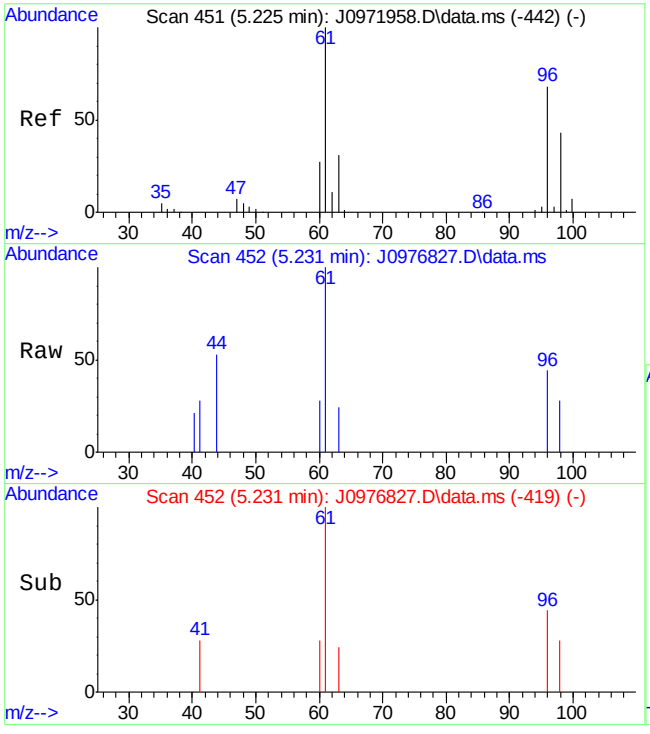
Tgt Ion: 49 Resp: 19188

Ion	Ratio	Lower	Upper
49	100		
84	82.7	55.6	115.6
86	56.4	26.6	86.6
51	36.2	0.6	60.6



7.1.7

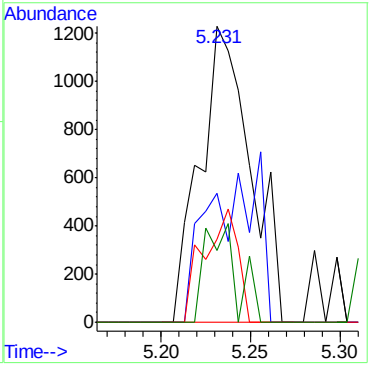
SGS ACCUTEST FA34224

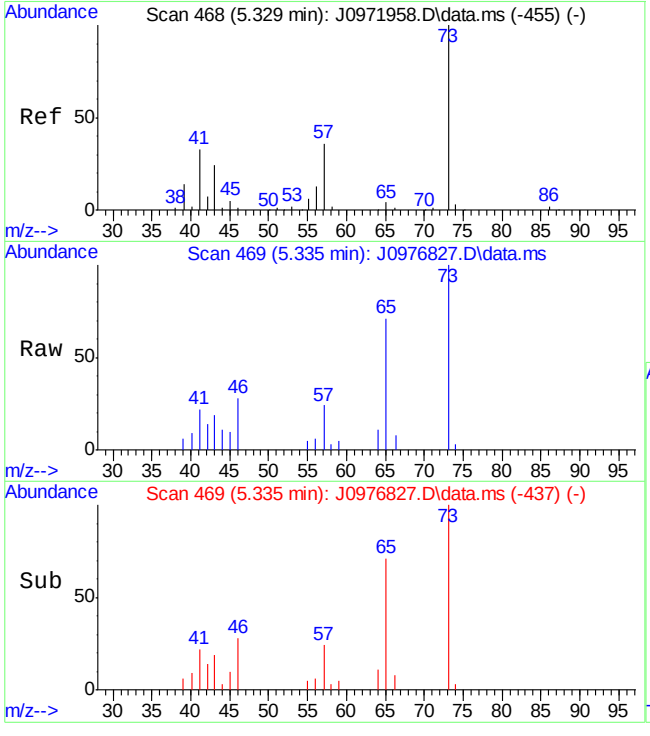


#19
trans-1,2-Dichloroethene
Concen: 0.29 ug/L
RT: 5.231 min Scan# 452
Delta R.T. 0.000 min
Lab File: J0976827.D
Acq: 26 May 2016 2:48 pm

Tgt Ion: 61 Resp: 2420

Ion	Ratio	Lower	Upper
61	100		
96	43.5	40.8	100.8
98	28.0	14.9	74.9
63	24.2	3.4	63.4

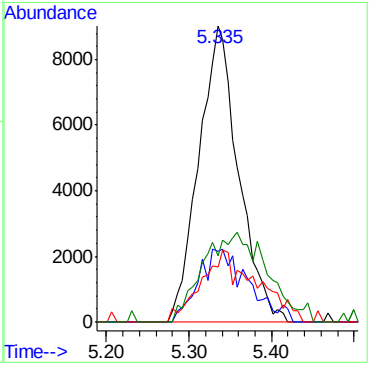


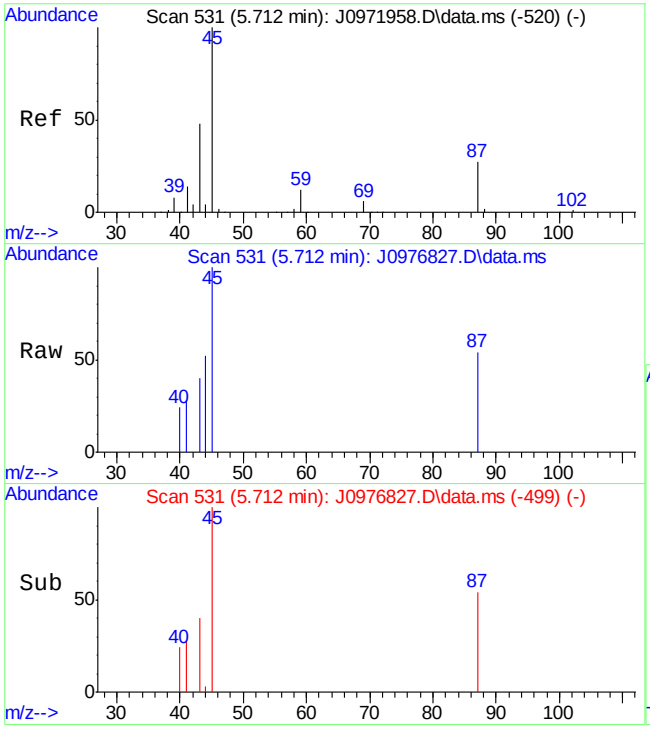


#21
Methyl Tert Butyl Ether
Concen: 1.85 ug/L
RT: 5.335 min Scan# 469
Delta R.T. -0.006 min
Lab File: J0976827.D
Acq: 26 May 2016 2:48 pm

Tgt Ion: 73 Resp: 30258

Ion	Ratio	Lower	Upper
73	100		
57	23.8	2.4	62.4
43	18.6	0.0	55.1
41	22.3	0.0	56.4

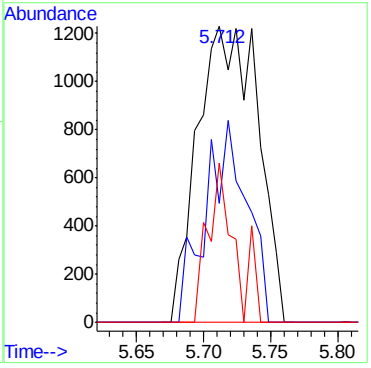


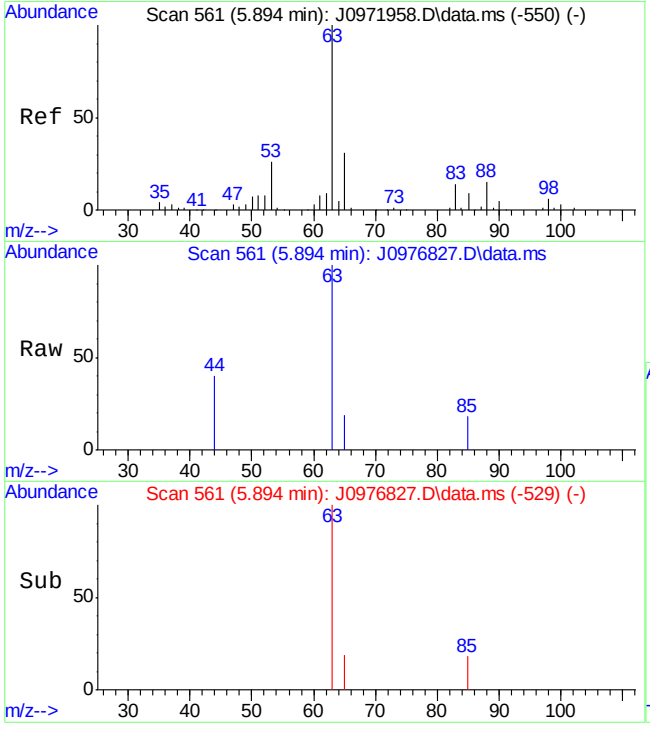


#23
Di-isopropyl ether
Concen: 0.21 ug/L
RT: 5.712 min Scan# 531
Delta R.T. -0.006 min
Lab File: J0976827.D
Acq: 26 May 2016 2:48 pm

Tgt Ion: 45 Resp: 3868

Ion	Ratio	Lower	Upper
45	100		
43	40.2	17.7	77.7
87	54.0	1.0	61.0

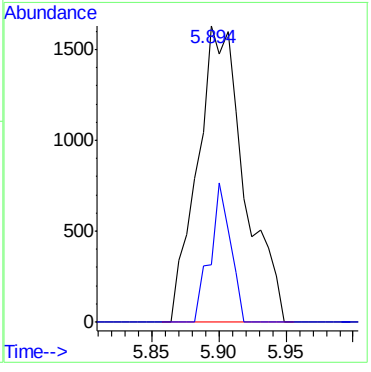


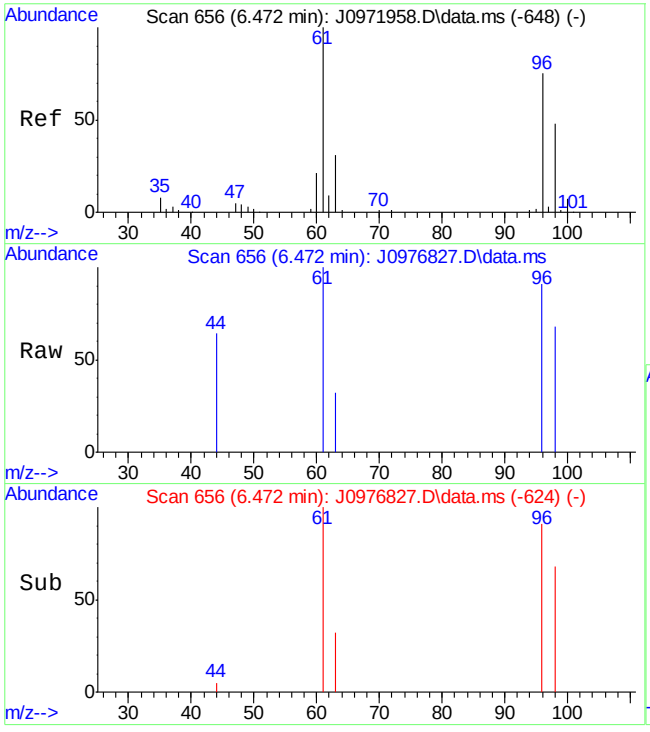


#25
1,1-Dichloroethane
Concen: 0.35 ug/L
RT: 5.894 min Scan# 561
Delta R.T. -0.006 min
Lab File: J0976827.D
Acq: 26 May 2016 2:48 pm

Tgt Ion: 63 Resp: 3953

Ion	Ratio	Lower	Upper
63	100		
65	19.5	1.7	61.7

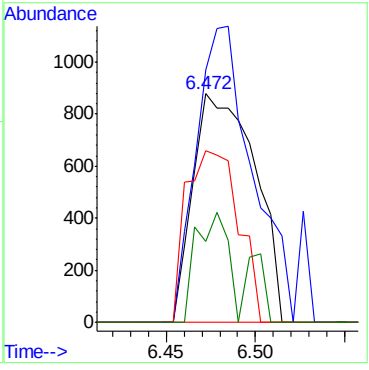


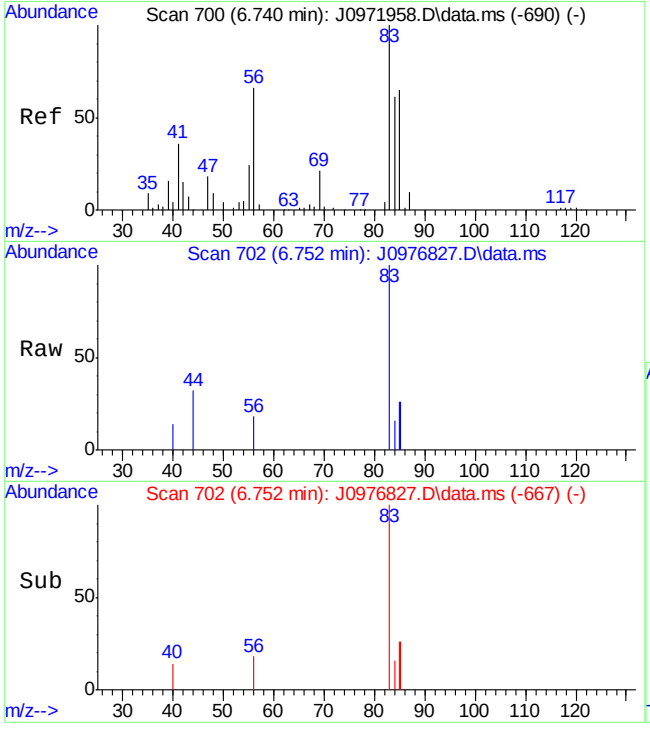


#29
cis-1,2-Dichloroethene
Concen: 0.29 ug/L
RT: 6.472 min Scan# 656
Delta R.T. -0.006 min
Lab File: J0976827.D
Acq: 26 May 2016 2:48 pm

Tgt Ion: 96 Resp: 2117

Ion	Ratio	Lower	Upper
96	100		
61	110.4	93.1	153.1
98	75.2	33.1	93.1
63	35.2	11.6	71.6

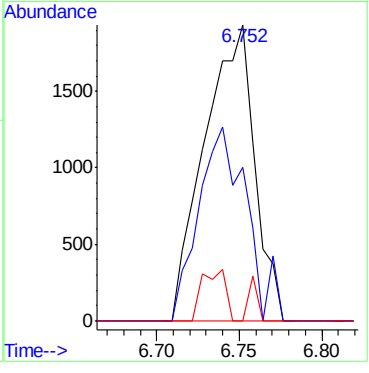


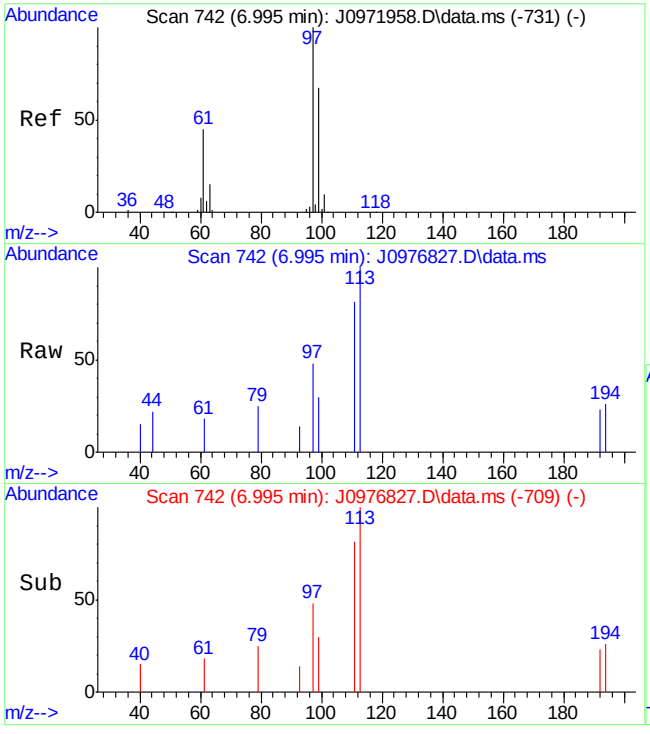


#33
Chloroform
Concen: 0.33 ug/L
RT: 6.752 min Scan# 702
Delta R.T. 0.012 min
Lab File: J0976827.D
Acq: 26 May 2016 2:48 pm

Tgt Ion: 83 Resp: 4055

Ion	Ratio	Lower	Upper
83	100		
85	52.0	36.7	96.7
47	0.0	0.0	49.8

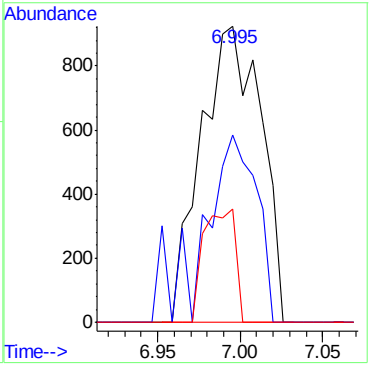


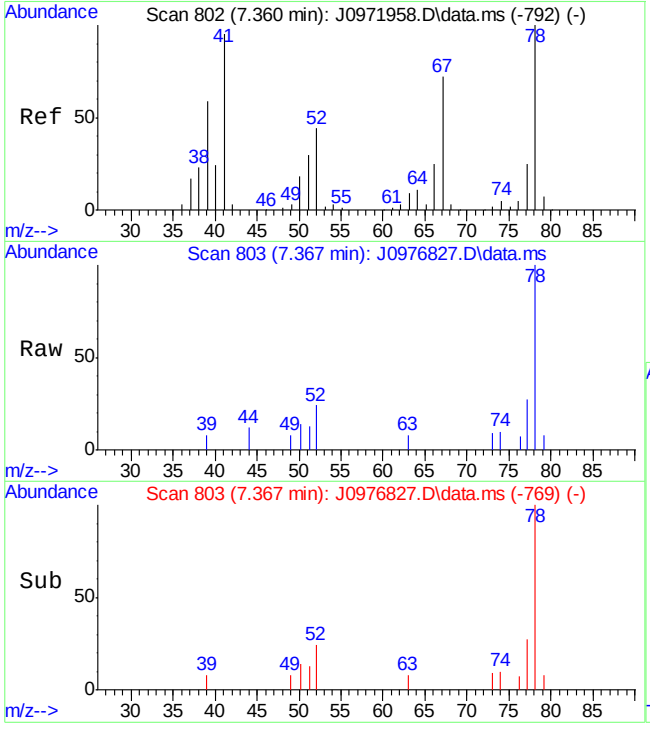


#38
1,1,1-Trichloroethane
Concen: 0.21 ug/L
RT: 6.995 min Scan# 742
Delta R.T. 0.000 min
Lab File: J0976827.D
Acq: 26 May 2016 2:48 pm

Tgt Ion: 97 Resp: 2322

Ion	Ratio	Lower	Upper
97	100		
99	63.3	33.5	93.5
61	38.3	12.2	72.2

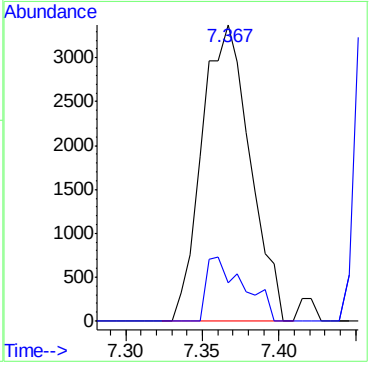


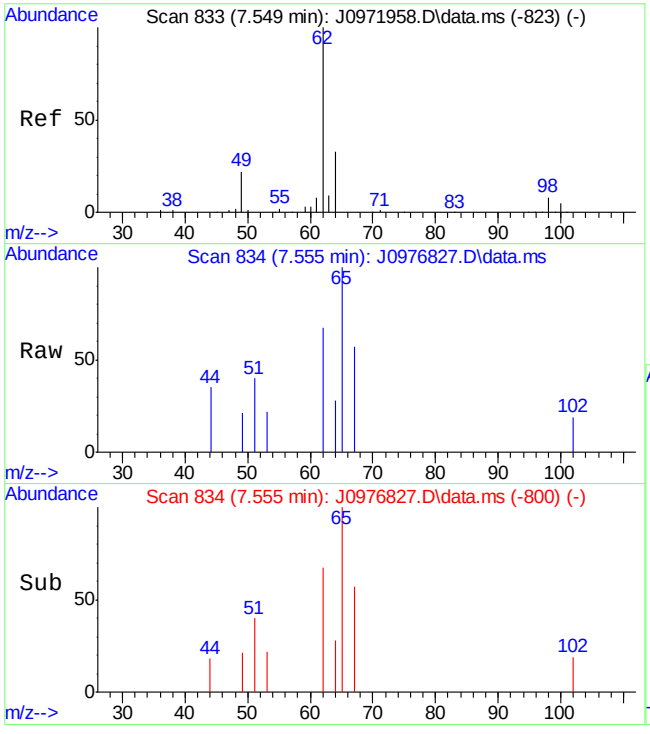


#44
Benzene
Concen: 0.28 ug/L
RT: 7.367 min Scan# 803
Delta R.T. 0.007 min
Lab File: J0976827.D
Acq: 26 May 2016 2:48 pm

Tgt Ion: 78 Resp: 7398

Ion	Ratio	Lower	Upper
78	100		
51	13.0	0.0	58.3

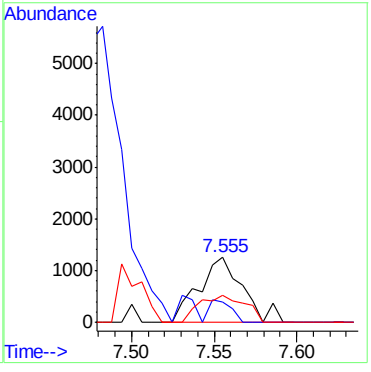


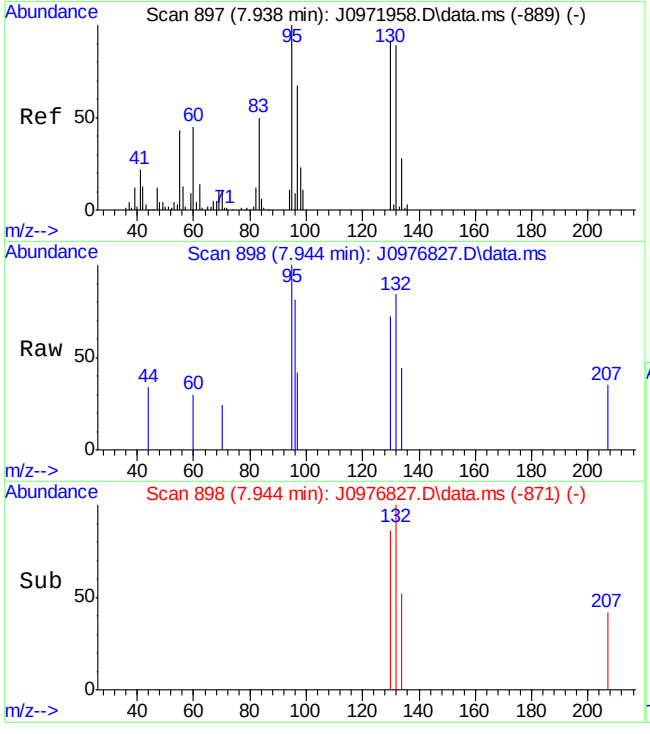


#47
1,2-Dichloroethane
Concen: 0.28 ug/L
RT: 7.555 min Scan# 834
Delta R.T. 0.006 min
Lab File: J0976827.D
Acq: 26 May 2016 2:48 pm

Tgt Ion: 62 Resp: 2310

Ion	Ratio	Lower	Upper
62	100		
49	31.6	0.0	54.9
64	41.7	2.5	62.5

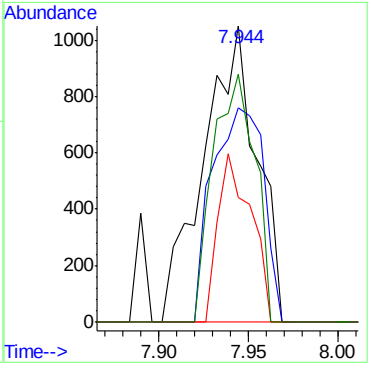


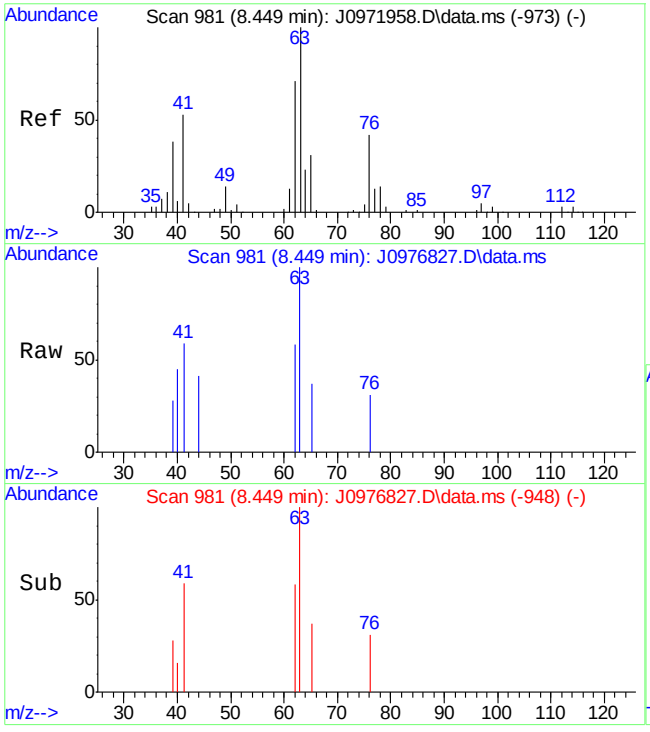


#48
Trichloroethene
Concen: 0.32 ug/L
RT: 7.944 min Scan# 898
Delta R.T. 0.012 min
Lab File: J0976827.D
Acq: 26 May 2016 2:48 pm

Tgt Ion: 95 Resp: 2181

Ion	Ratio	Lower	Upper
95	100		
130	72.2	58.8	118.8
97	42.2	32.9	92.9
132	83.6	56.1	116.1

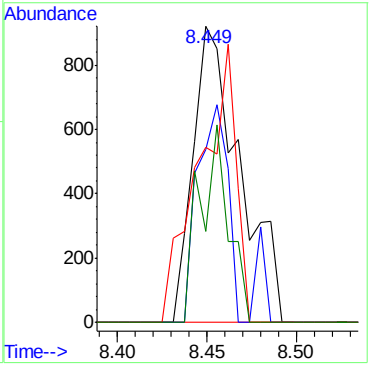


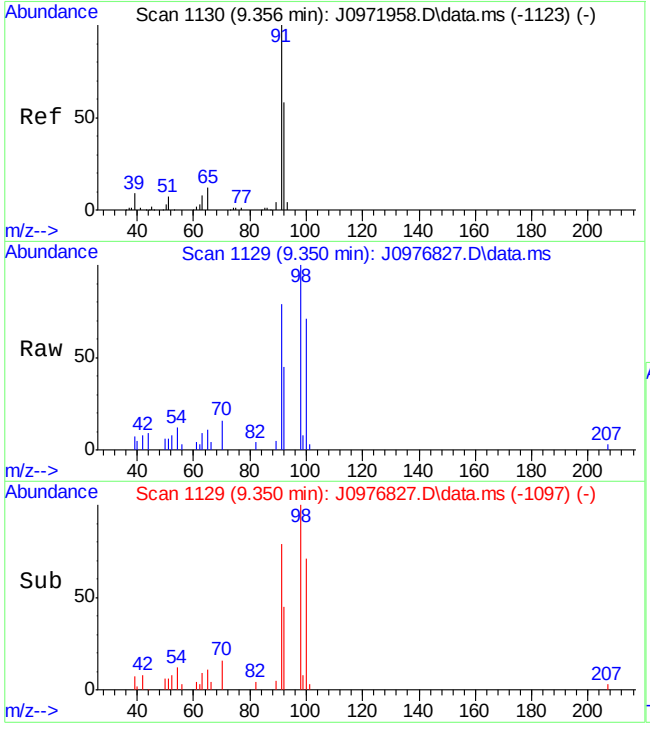


#51
1,2-Dichloropropane
Concen: 0.25 ug/L
RT: 8.449 min Scan# 981
Delta R.T. 0.000 min
Lab File: J0976827.D
Acq: 26 May 2016 2:48 pm

Tgt Ion: 63 Resp: 1672

Ion	Ratio	Lower	Upper
63	100		
62	58.2	38.3	98.3
41	59.1	18.4	78.4
76	30.6	8.7	68.7

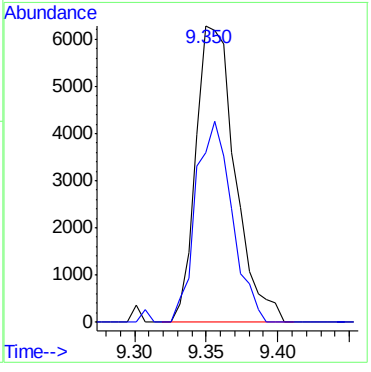


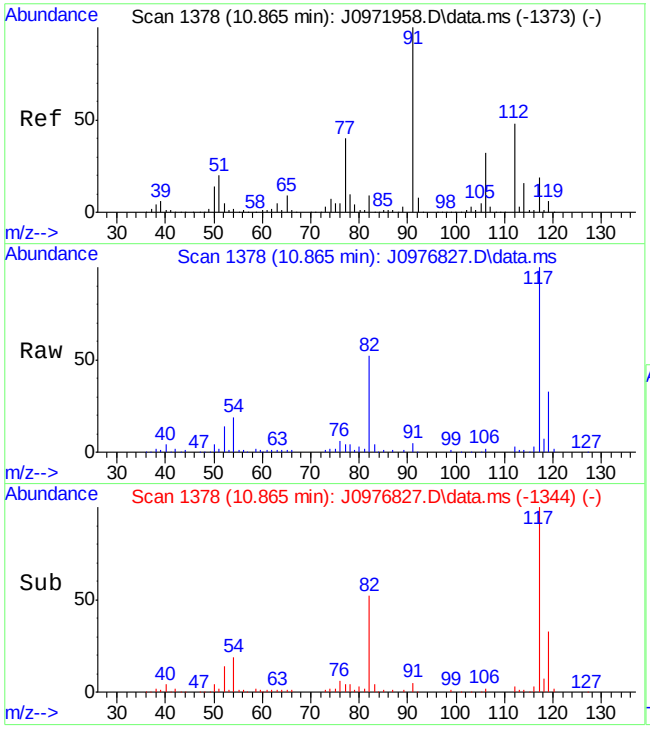


#58
Toluene
Concen: 0.41 ug/L
RT: 9.350 min Scan# 1129
Delta R.T. -0.006 min
Lab File: J0976827.D
Acq: 26 May 2016 2:48 pm

Tgt Ion: 91 Resp: 11963

Ion	Ratio	Lower	Upper
91	100		
92	57.3	29.3	89.3

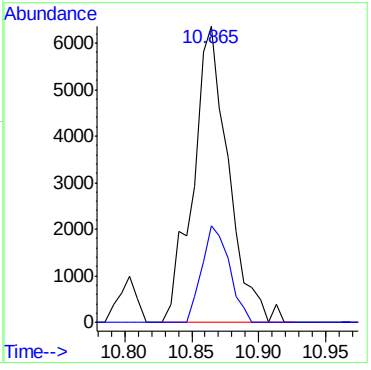


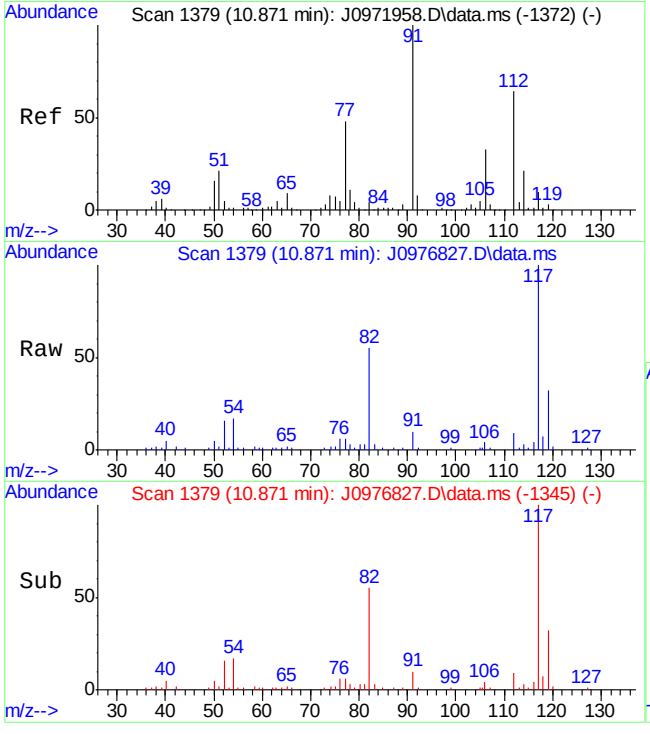


#70
Ethylbenzene
Concen: 0.34 ug/L
RT: 10.865 min Scan# 1378
Delta R.T. 0.007 min
Lab File: J0976827.D
Acq: 26 May 2016 2:48 pm

Tgt Ion: 91 Resp: 11637

Ion	Ratio	Lower	Upper
91	100		
106	32.6	2.8	62.8

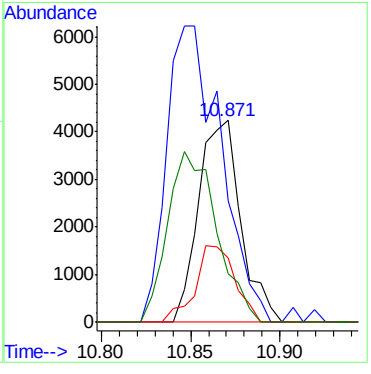


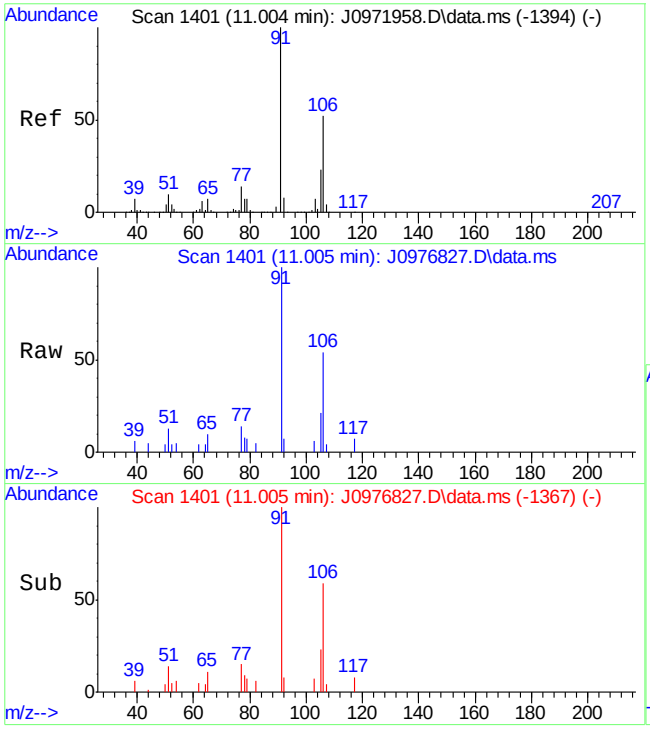


#71
Chlorobenzene
Concen: 0.36 ug/L
RT: 10.871 min Scan# 1379
Delta R.T. 0.007 min
Lab File: J0976827.D
Acq: 26 May 2016 2:48 pm

Tgt Ion:112 Resp: 6964

Ion	Ratio	Lower	Upper
112	100		
77	53.4	40.0	100.0
114	31.8	2.7	62.7
51	23.8	0.0	59.3

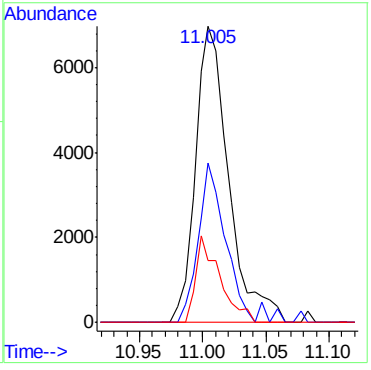


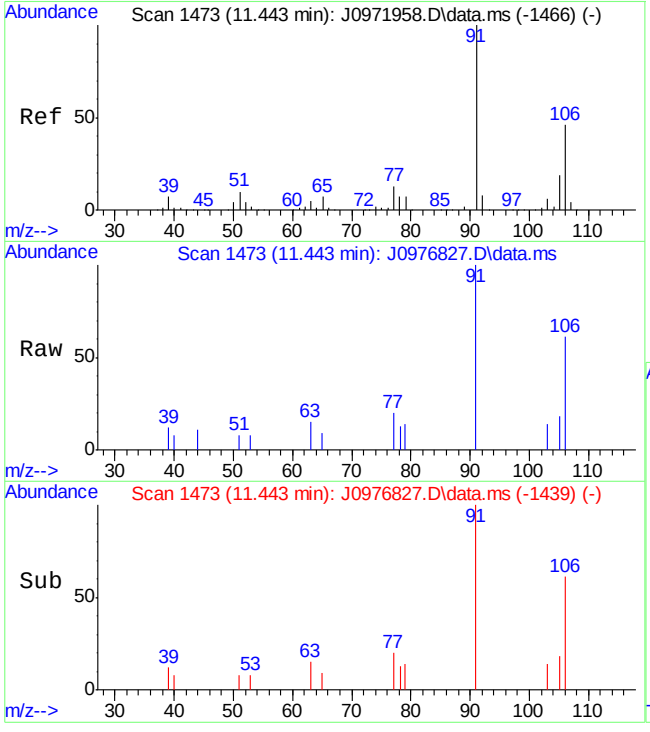


#73
m,p-Xylene
Concen: 0.47 ug/L
RT: 11.005 min Scan# 1401
Delta R.T. 0.007 min
Lab File: J0976827.D
Acq: 26 May 2016 2:48 pm

Tgt Ion: 91 Resp: 12801

Ion	Ratio	Lower	Upper
91	100		
106	53.7	23.8	83.8
105	20.7	0.0	54.2

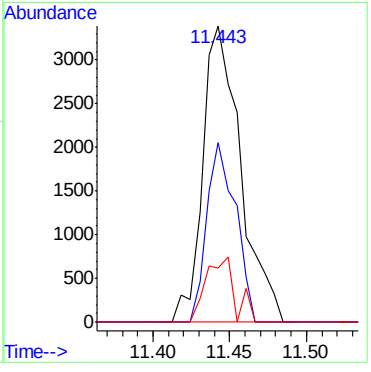


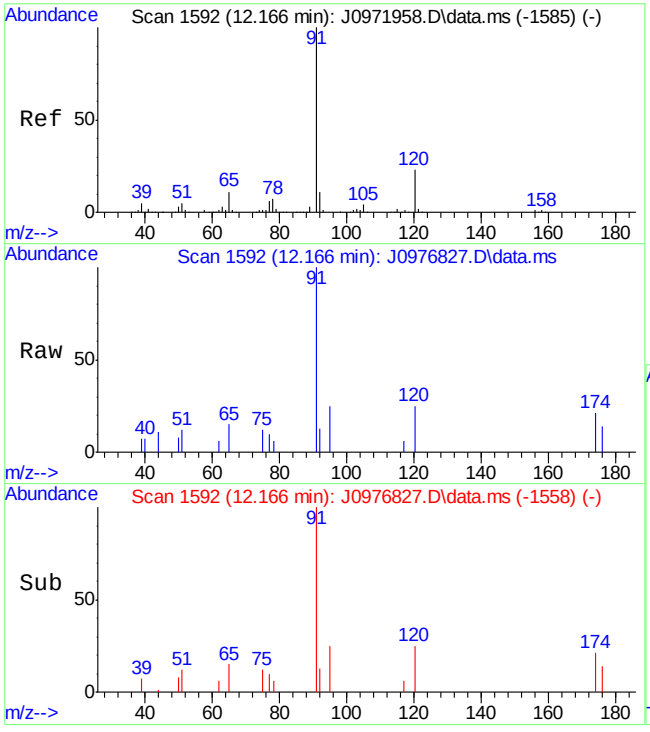


#74
o-Xylene
Concen: 0.25 ug/L
RT: 11.443 min Scan# 1473
Delta R.T. 0.007 min
Lab File: J0976827.D
Acq: 26 May 2016 2:48 pm

Tgt Ion: 91 Resp: 5857

Ion	Ratio	Lower	Upper
91	100		
106	60.6	17.7	77.7
105	18.1	0.0	50.0

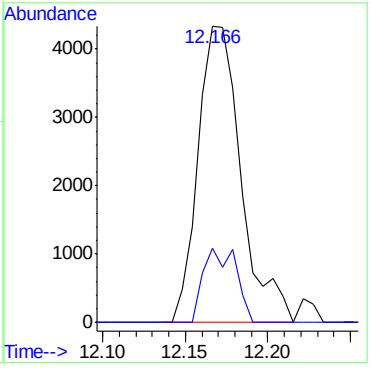


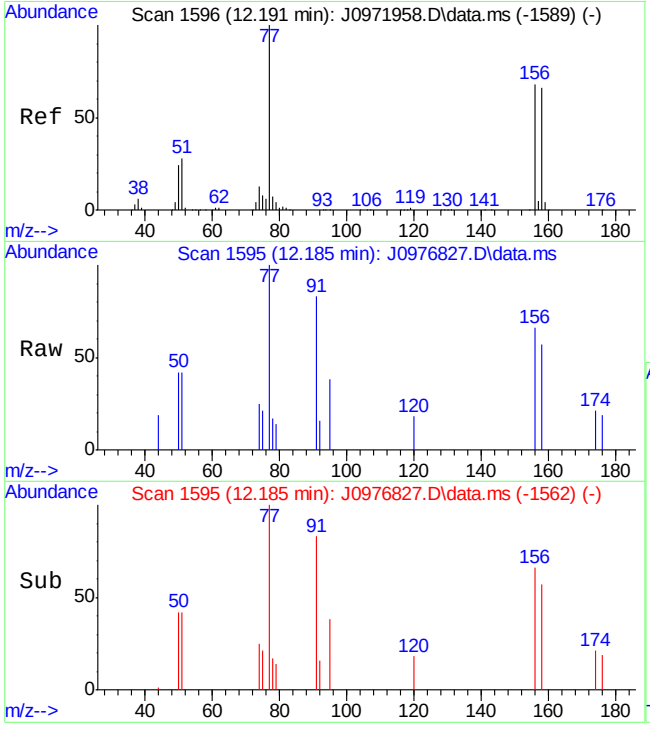


#81
n-Propylbenzene
Concen: 0.24 ug/L
RT: 12.166 min Scan# 1592
Delta R.T. 0.006 min
Lab File: J0976827.D
Acq: 26 May 2016 2:48 pm

Tgt Ion: 91 Resp: 7817

Ion	Ratio	Lower	Upper
91	100		
120	25.0	0.0	54.0

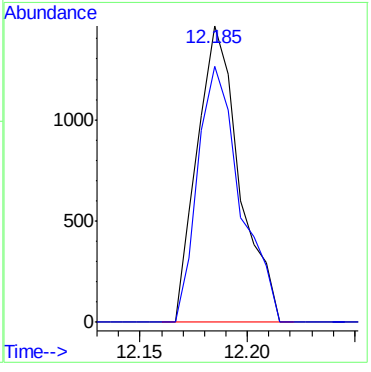


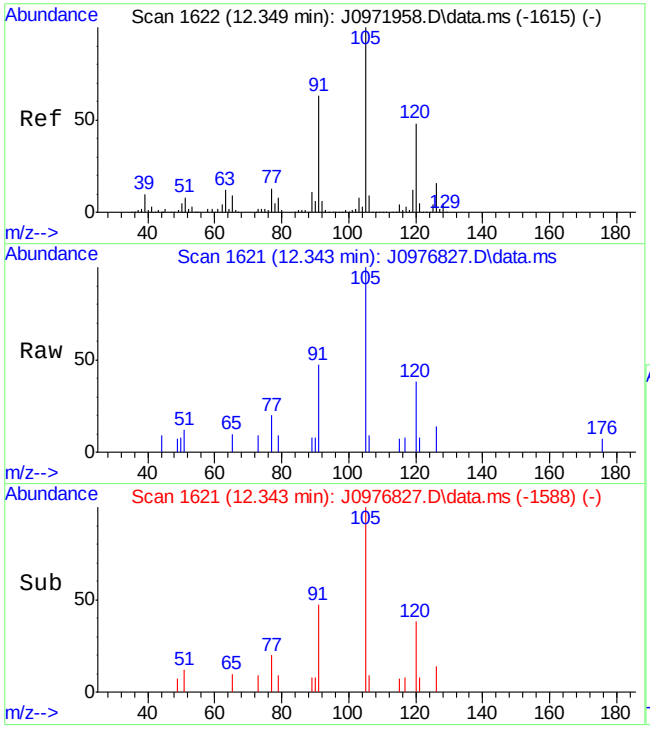


#82
Bromobenzene
Concen: 0.26 ug/L
RT: 12.185 min Scan# 1595
Delta R.T. -0.000 min
Lab File: J0976827.D
Acq: 26 May 2016 2:48 pm

Tgt Ion:156 Resp: 2016

Ion	Ratio	Lower	Upper
156	100		
158	86.4	64.7	124.7

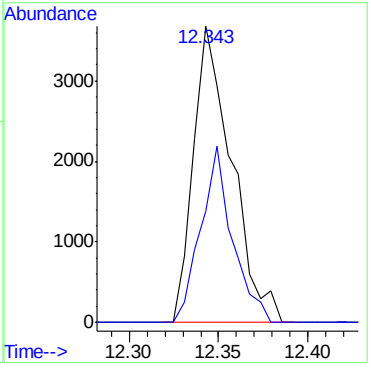


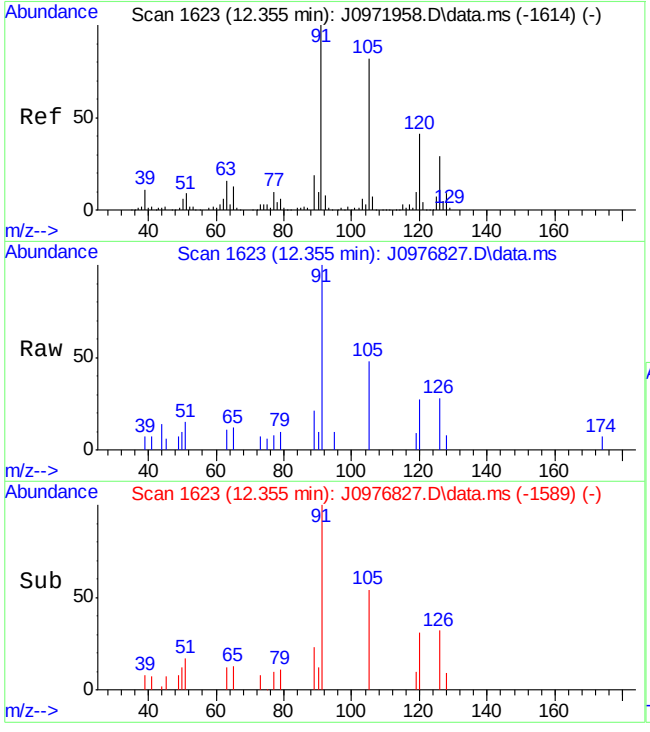


#84
1,3,5-Trimethylbenzene
Concen: 0.23 ug/L
RT: 12.343 min Scan# 1621
Delta R.T. -0.000 min
Lab File: J0976827.D
Acq: 26 May 2016 2:48 pm

Tgt Ion:105 Resp: 5448

Ion	Ratio	Lower	Upper
105	100		
120	37.7	19.2	79.2

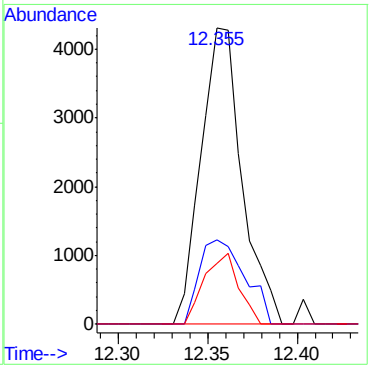


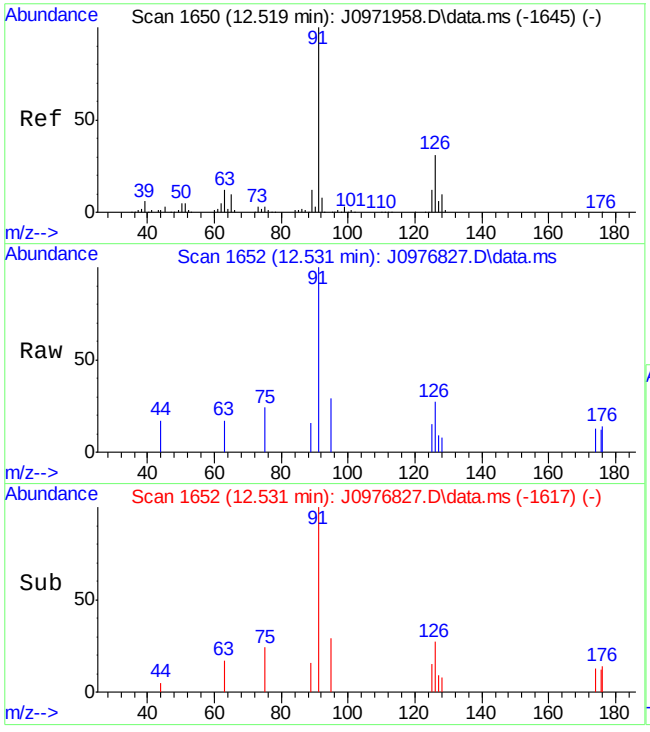


#85
2-Chlorotoluene
Concen: 0.29 ug/L
RT: 12.355 min Scan# 1623
Delta R.T. 0.006 min
Lab File: J0976827.D
Acq: 26 May 2016 2:48 pm

Tgt Ion: 91 Resp: 6872

Ion	Ratio	Lower	Upper
91	100		
126	28.5	0.4	60.4
89	20.5	0.0	48.6

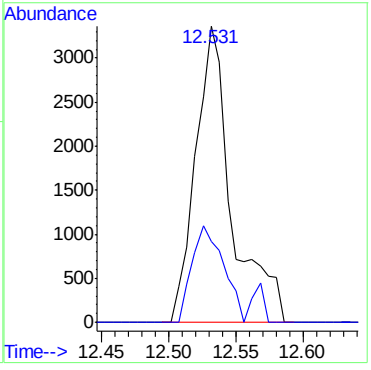


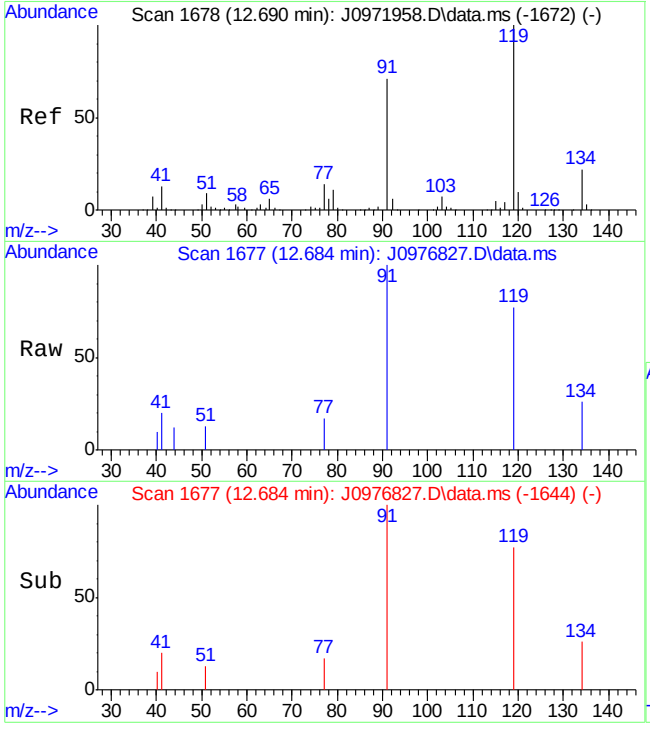


#89
4-Chlorotoluene
Concen: 0.29 ug/L
RT: 12.531 min Scan# 1652
Delta R.T. 0.012 min
Lab File: J0976827.D
Acq: 26 May 2016 2:48 pm

Tgt Ion: 91 Resp: 6274

Ion	Ratio	Lower	Upper
91	100		
126	27.2	3.6	63.6

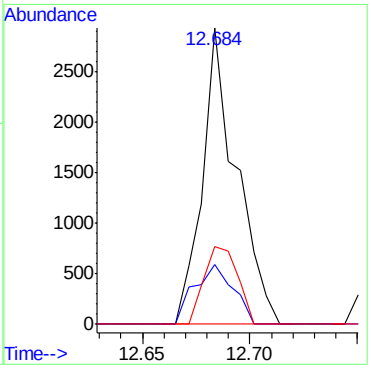


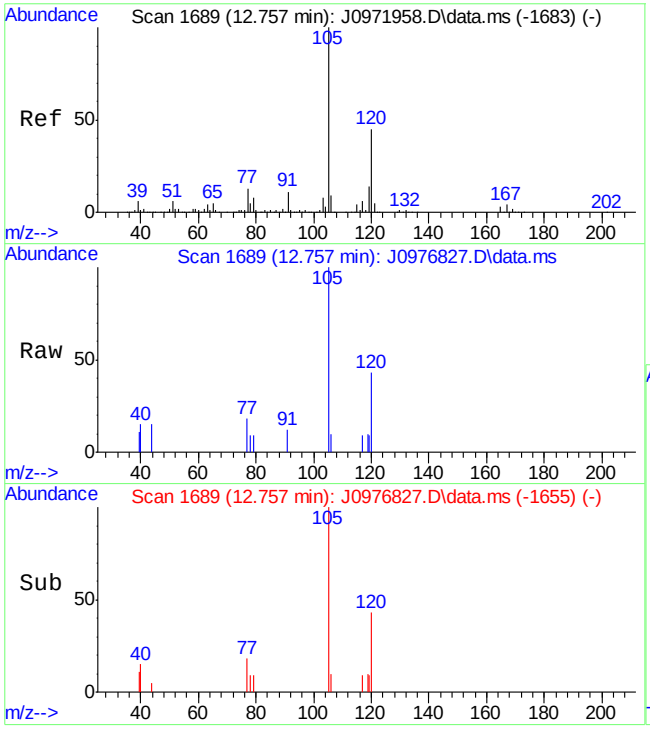


#91
tert-Butylbenzene
Concen: 0.23 ug/L
RT: 12.684 min Scan# 1677
Delta R.T. 0.001 min
Lab File: J0976827.D
Acq: 26 May 2016 2:48 pm

Tgt Ion: 91 Resp: 3223

Ion	Ratio	Lower	Upper
91	100		
41	20.1	0.0	46.5
134	26.1	2.0	62.0

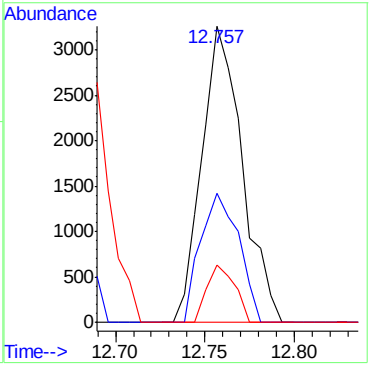


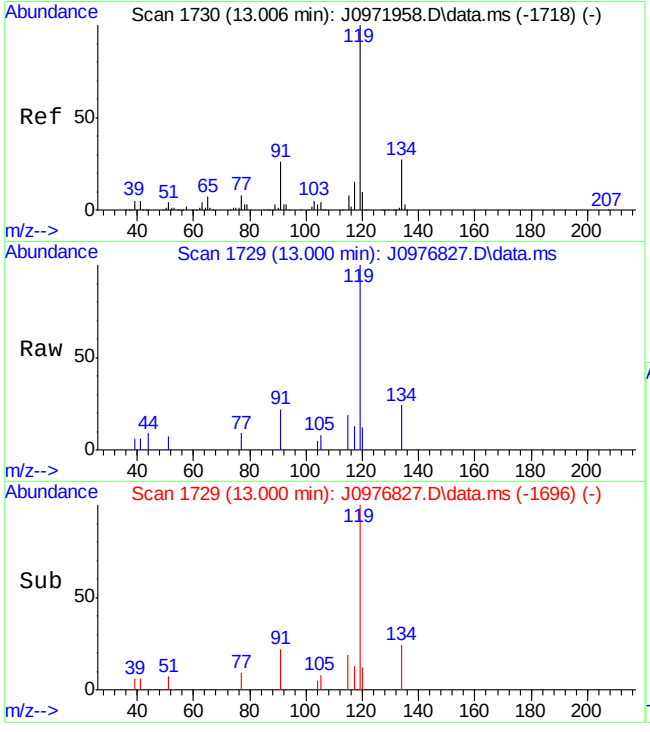


#92
1,2,4-Trimethylbenzene
Concen: 0.21 ug/L
RT: 12.757 min Scan# 1689
Delta R.T. 0.007 min
Lab File: J0976827.D
Acq: 26 May 2016 2:48 pm

Tgt Ion:105 Resp: 5121

Ion	Ratio	Lower	Upper
105	100		
120	43.4	16.8	76.8
119	19.4	0.0	45.4

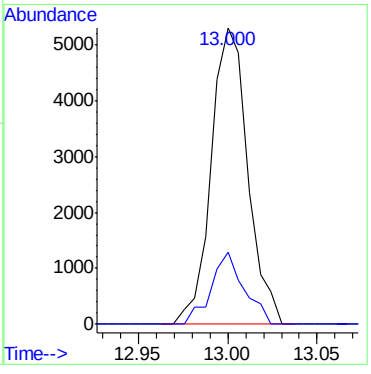


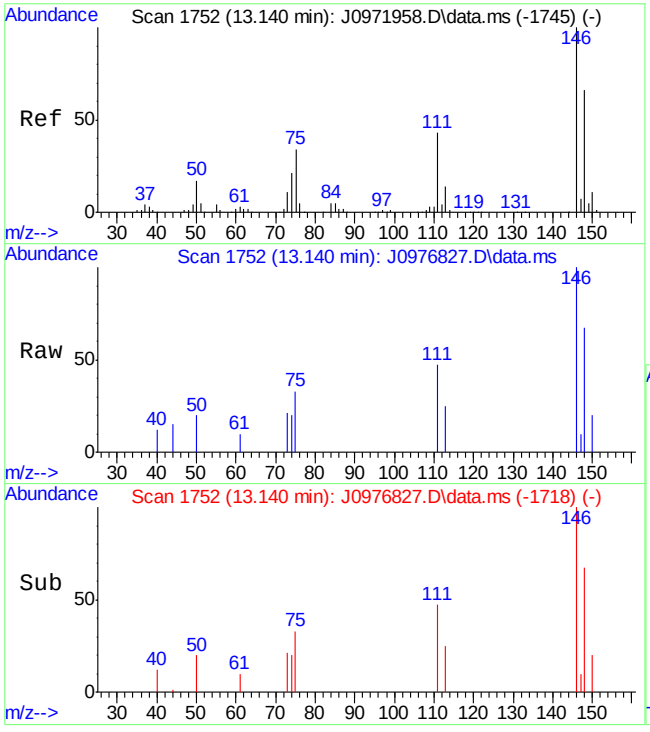


#95
4-Isopropyltoluene
Concen: 0.30 ug/L
RT: 13.000 min Scan# 1729
Delta R.T. -0.000 min
Lab File: J0976827.D
Acq: 26 May 2016 2:48 pm

Tgt Ion:119 Resp: 7546

Ion	Ratio	Lower	Upper
119	100		
134	24.2	0.0	56.4

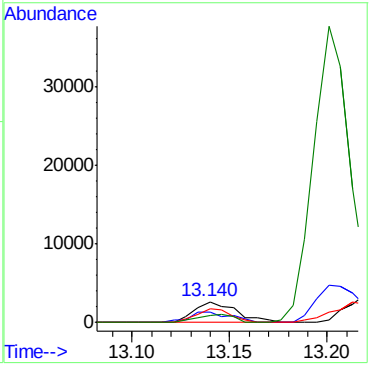


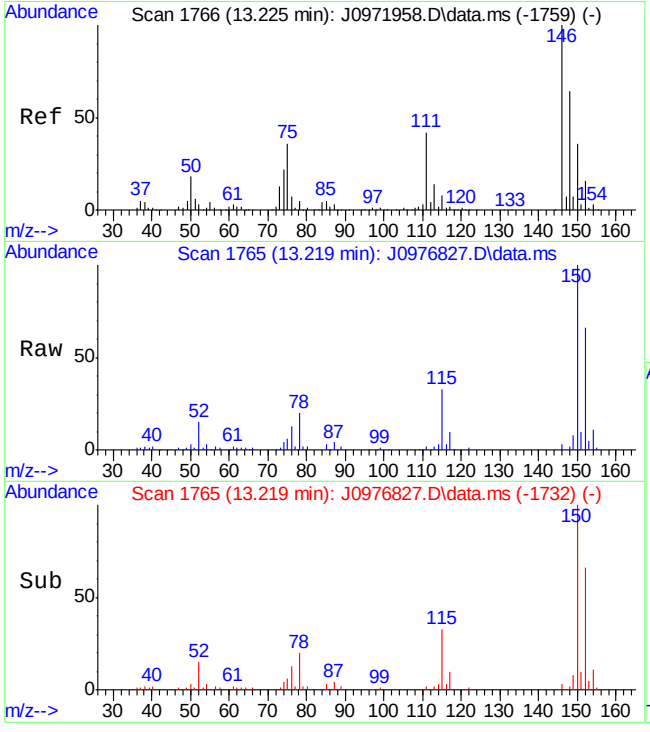


#96
1,3-Dichlorobenzene
Concen: 0.29 ug/L
RT: 13.140 min Scan# 1752
Delta R.T. 0.006 min
Lab File: J0976827.D
Acq: 26 May 2016 2:48 pm

Tgt Ion:146 Resp: 3846

Ion	Ratio	Lower	Upper
146	100		
111	47.3	14.0	74.0
148	67.2	33.2	93.2
75	32.6	1.2	61.2

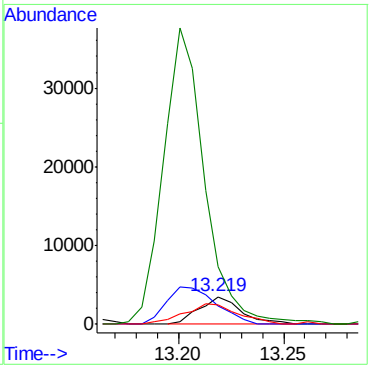


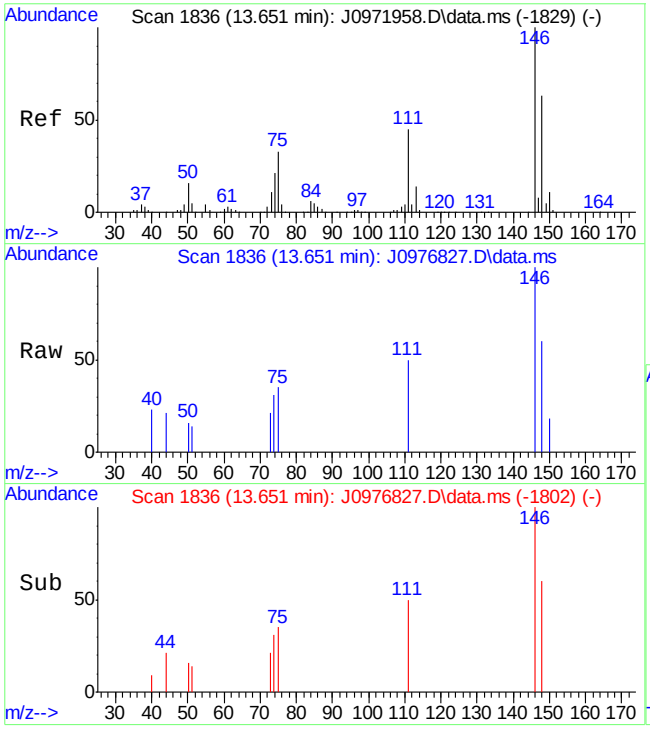


#97
1,4-Dichlorobenzene
Concen: 0.33 ug/L m
RT: 13.219 min Scan# 1765
Delta R.T. -0.000 min
Lab File: J0976827.D
Acq: 26 May 2016 2:48 pm

Tgt Ion:146 Resp: 4736

Ion	Ratio	Lower	Upper
146	100		
111	66.8	11.2	71.2
148	68.8	35.8	95.8
75	208.8	3.3	63.3#

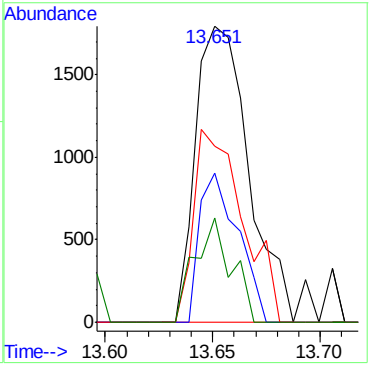


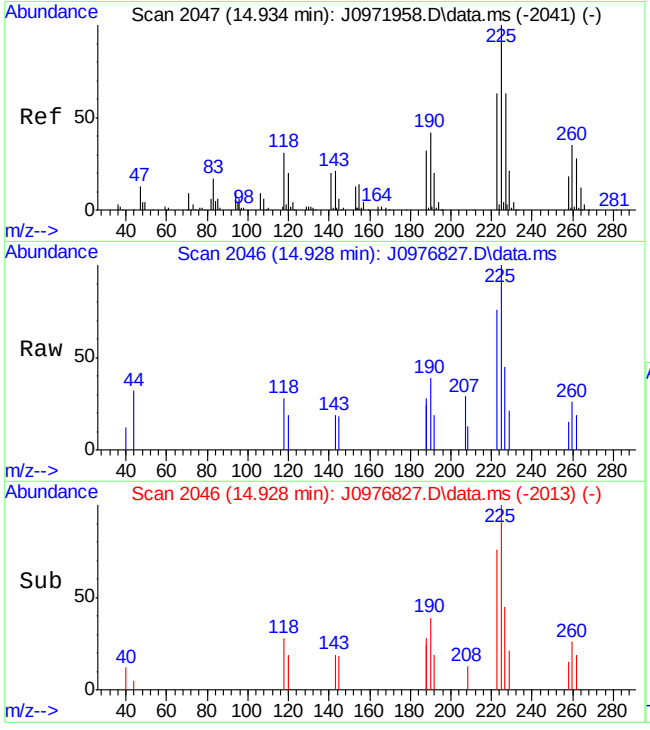


#100
1,2-Dichlorobenzene
Concen: 0.25 ug/L
RT: 13.651 min Scan# 1836
Delta R.T. 0.006 min
Lab File: J0976827.D
Acq: 26 May 2016 2:48 pm

Tgt Ion:146 Resp: 3095

Ion	Ratio	Lower	Upper
146	100		
111	50.3	13.0	73.0
148	59.6	33.8	93.8
75	35.2	0.1	60.1

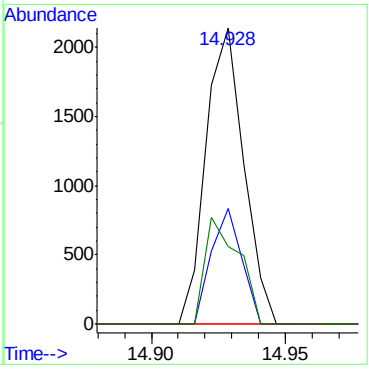


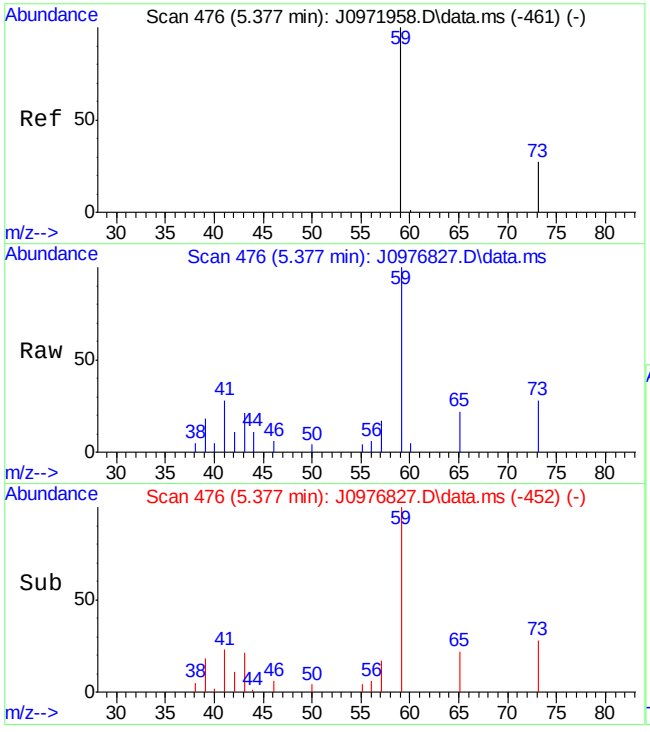


#102
Hexachlorobutadiene
Concen: 0.38 ug/L
RT: 14.928 min Scan# 2046
Delta R.T. 0.000 min
Lab File: J0976827.D
Acq: 26 May 2016 2:48 pm

Tgt Ion:225 Resp: 2097

Ion	Ratio	Lower	Upper
225	100		
190	39.0	13.0	73.0
119	0.0	0.0	33.5
260	26.1	6.2	66.2

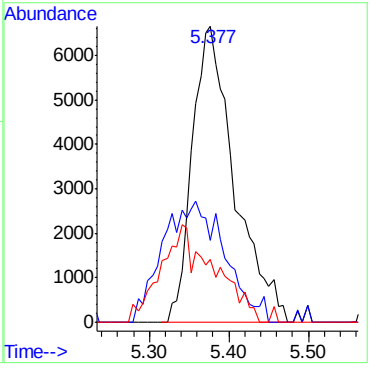




#109
Tert Butyl Alcohol
Concen: 82.11 ug/L
RT: 5.377 min Scan# 476
Delta R.T. -0.006 min
Lab File: J0976827.D
Acq: 26 May 2016 2:48 pm

Tgt Ion: 59 Resp: 24569

Ion	Ratio	Lower	Upper
59	100		
41	27.8	26.6	66.6
43	21.2	13.9	53.9



7.1.7

7

Manual Integration Approval Summary

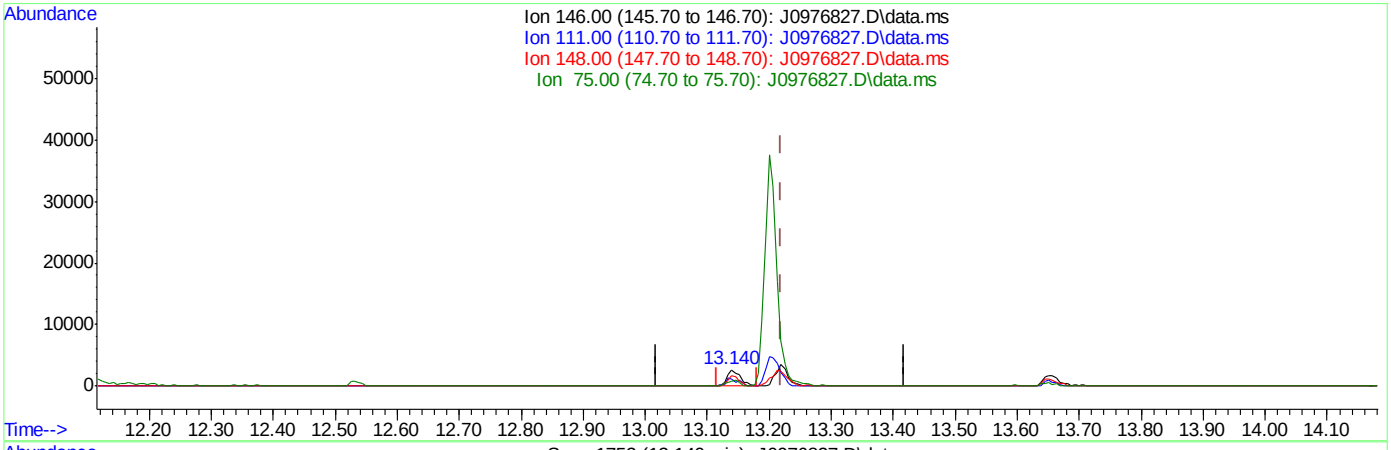
Sample Number:	FA34224-6	**Method:**	SW846 8260C
Lab FileID:	J0976827.D	**Analyst approved:**	05/26/16 17:07 Stuti Patel
Injection Time:	05/26/16 14:48	**Supervisor approved:**	05/26/16 17:45 Juan Garcia

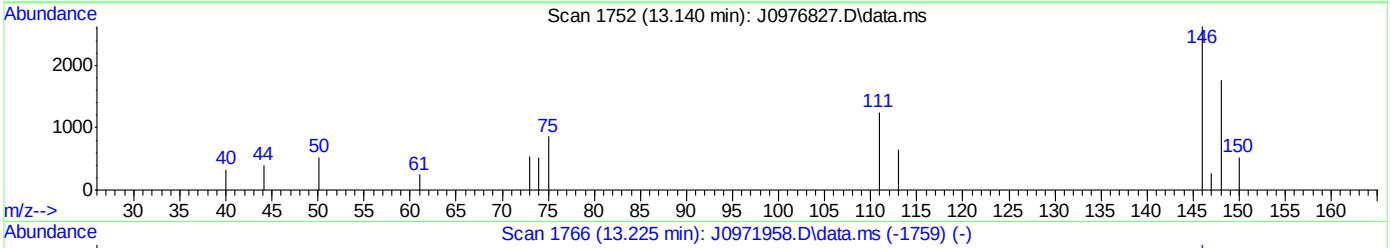
Parameter	CAS	Sig#	R.T. (min.)	Reason
1,4-Dichlorobenzene	106-46-7		13.22	Missed peak

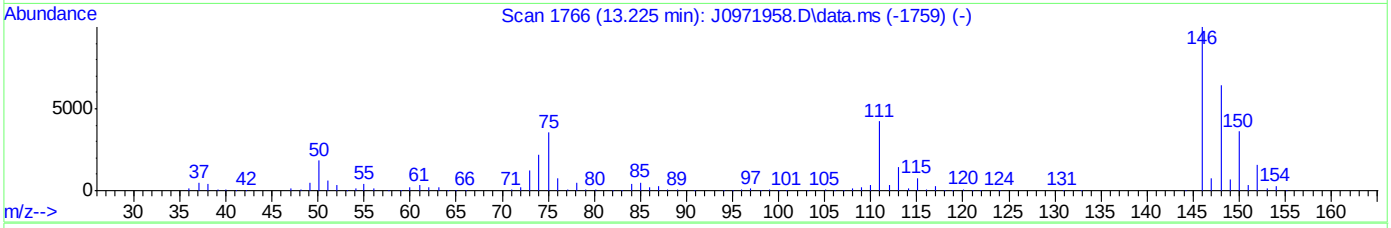
Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\052616\
Data File : J0976827.D
Acq On : 26 May 2016 2:48 pm
Operator : DARSHNAP
Sample : fa34224-6 ma Inst : MSVOA6
Misc : MS34002,VJ5316,,,,,20
ALS Vial : 11 Sample Multiplier: 1

Quant Time: May 26 16:08:52 2016
Quant Method : C:\msdchem\2\methods\MSJ052316a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed May 25 09:12:25 2016
Response via : Initial Calibration







TIC: J0976827.D\data.ms

(97) 1,4-Dichlorobenzene

13.140min (-0.079) 0.27ug/L

response 3846

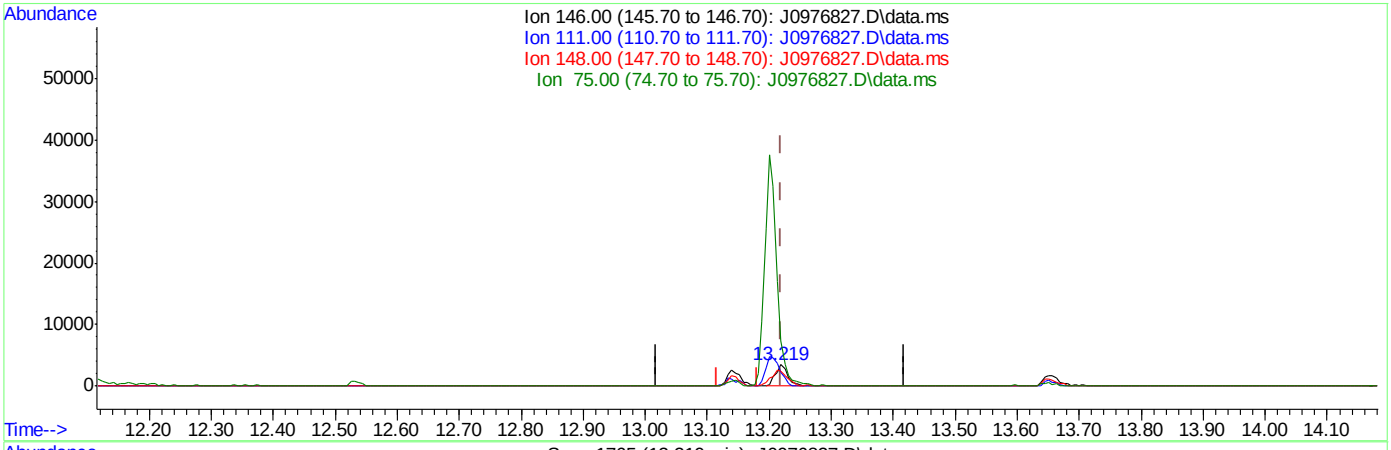
Ion	Exp%	Act%
146.00	100	100
111.00	41.20	47.34
148.00	65.80	67.20
75.00	33.30	32.57

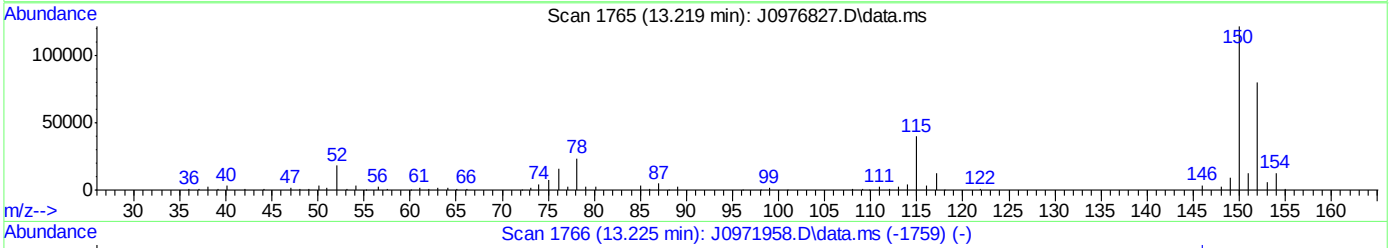
SGS ACCUTEST FA34224

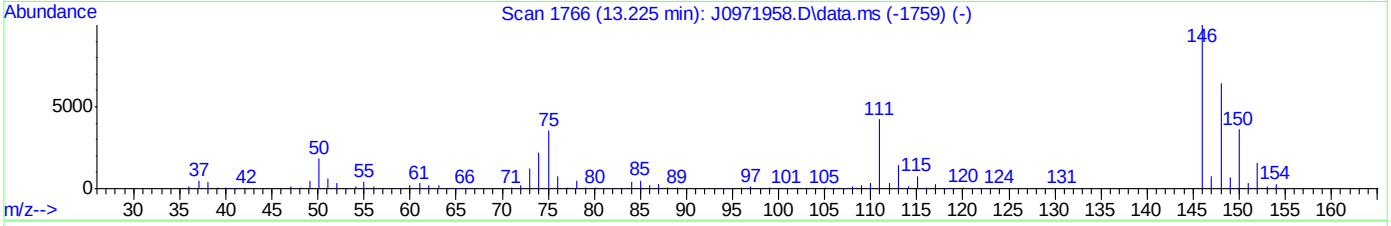
Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\052616\
Data File : J0976827.D
Acq On : 26 May 2016 2:48 pm
Operator : DARSHNAP
Sample : fa34224-6 ma Inst : MSVOA6
Misc : MS34002,VJ5316,,,,,20
ALS Vial : 11 Sample Multiplier: 1

Quant Time: May 26 16:08:52 2016
Quant Method : C:\msdchem\2\methods\MSJ052316a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed May 25 09:12:25 2016
Response via : Initial Calibration







TIC: J0976827.D\data.ms

(97) 1,4-Dichlorobenzene

13.219min (-0.000) 0.33ug/L m

response 4736

Ion	Exp%	Act%
146.00	100	100
111.00	41.20	66.85
148.00	65.80	68.80
75.00	33.30	208.79#

SGS ACCUTEST FA34224

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\052616\
Data File : J0976826.D
Acq On : 26 May 2016 2:25 pm
Operator : DARSHNAP
Sample : fa34224-7 ma Inst : MSVOA6
Misc : MS34002,VJ5316,,,,,
ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 26 16:27:55 2016
Quant Method : C:\msdchem\2\methods\MSJ052316a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed May 25 09:12:25 2016
Response via : Initial Calibration

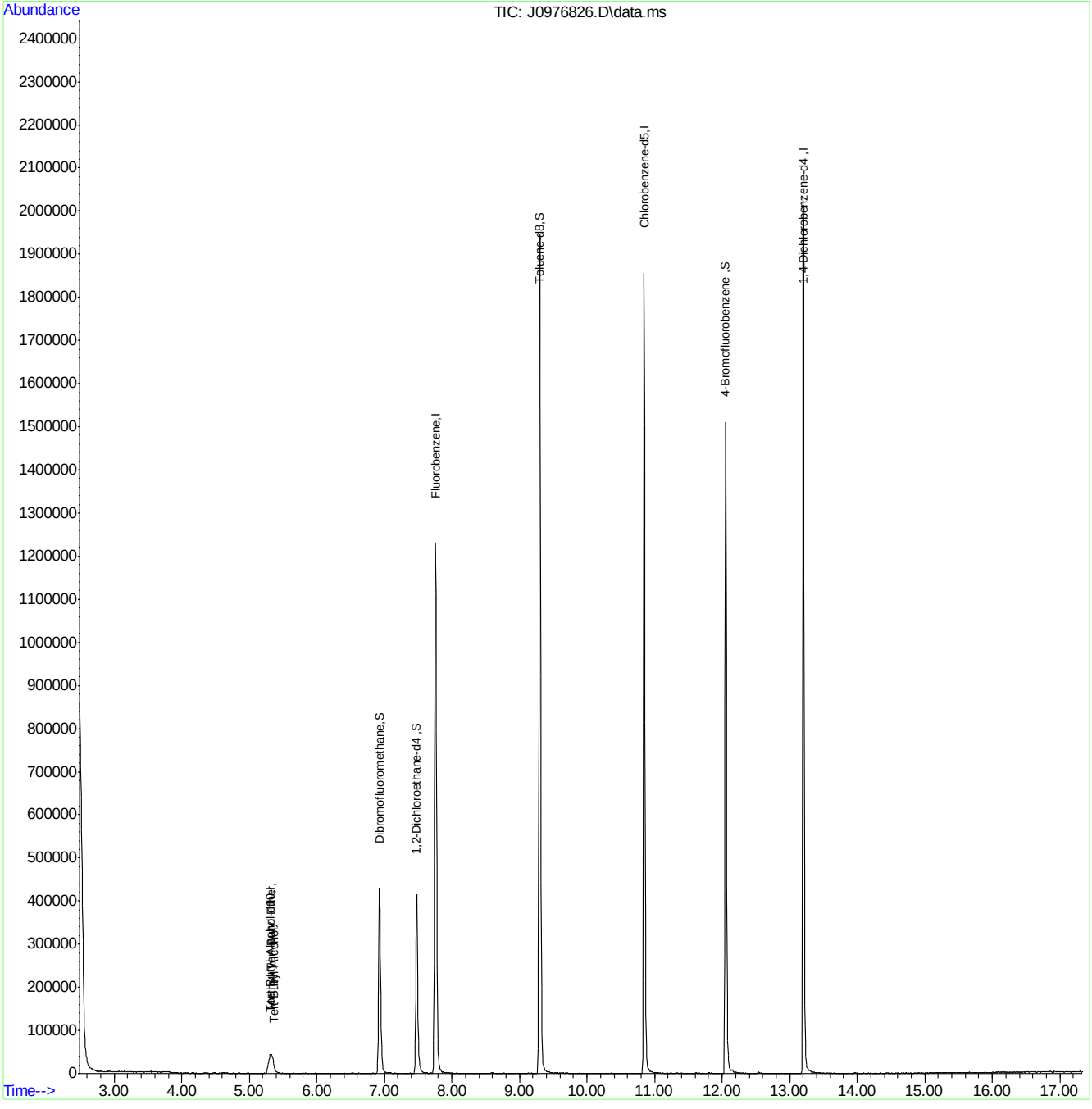
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.756	96	1098933	50.00	ug/L	0.00
56) Chlorobenzene-d5	10.846	117	886943	50.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	13.207	152	472624	50.00	ug/L	0.00
106) Tert Butyl Alcohol-d10	5.304	65	55751	250.00	ug/L	0.00
System Monitoring Compounds						
36) Dibromofluoromethane	6.928	113	280162	50.36	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 100.72%			
46) 1,2-Dichloroethane-d4	7.476	65	324004	51.66	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 103.32%			
57) Toluene-d8	9.301	98	1156660	51.57	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 103.14%			
79) 4-Bromofluorobenzene	12.051	95	449298	51.58	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 103.16%			
Target Compounds						Qvalue
21) Methyl Tert Butyl Ether	5.328	73	52632	3.21	ug/L	85
109) Tert Butyl Alcohol	5.371	59	1424	4.78	ug/L #	3

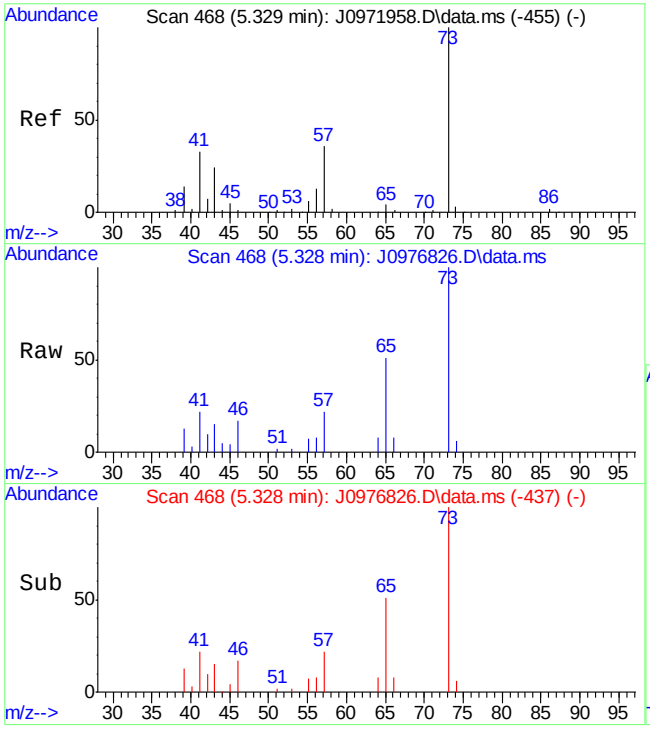
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\052616\
Data File : J0976826.D
Acq On : 26 May 2016 2:25 pm
Operator : DARSHNAP
Sample : fa34224-7 ma Inst : MSVOA6
Misc : MS34002,VJ5316,,,,,
ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 26 16:27:55 2016
Quant Method : C:\msdchem\2\methods\MSJ052316a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed May 25 09:12:25 2016
Response via : Initial Calibration

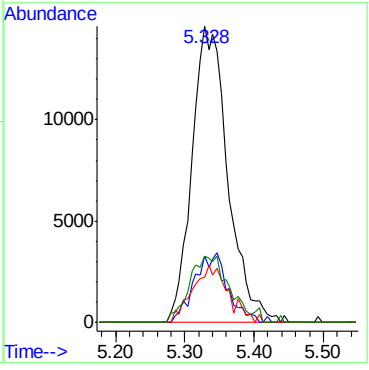


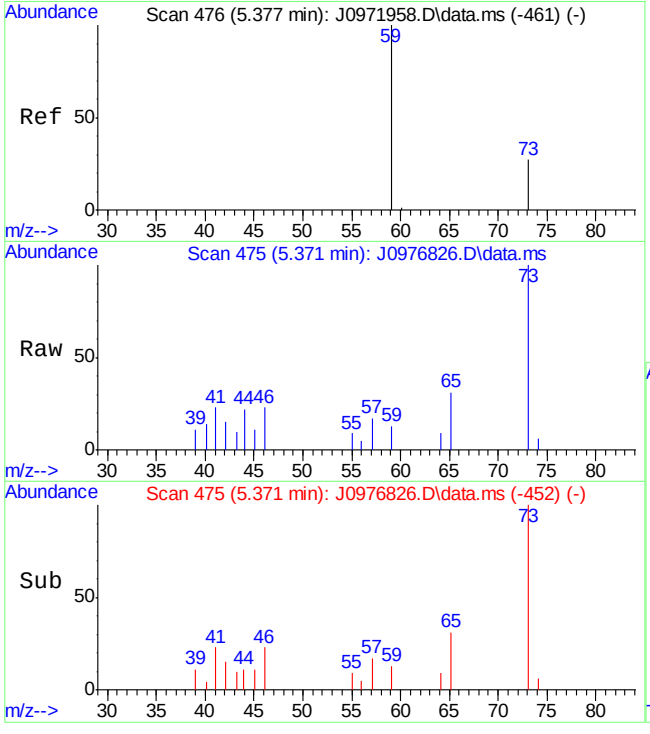


#21
Methyl Tert Butyl Ether
Concen: 3.21 ug/L
RT: 5.328 min Scan# 468
Delta R.T. -0.013 min
Lab File: J0976826.D
Acq: 26 May 2016 2:25 pm

Tgt Ion: 73 Resp: 52632

Ion	Ratio	Lower	Upper
73	100		
57	22.4	2.4	62.4
43	15.4	0.0	55.1
41	22.3	0.0	56.4

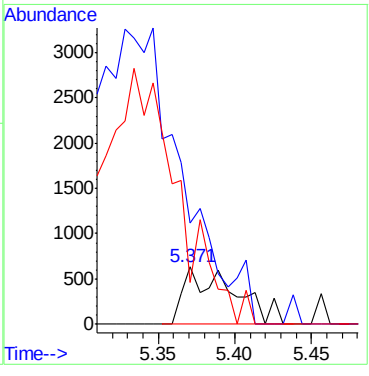




#109
Tert Butyl Alcohol
Concen: 4.78 ug/L
RT: 5.371 min Scan# 475
Delta R.T. -0.012 min
Lab File: J0976826.D
Acq: 26 May 2016 2:25 pm

Tgt Ion: 59 Resp: 1424

Ion	Ratio	Lower	Upper
59	100		
41	124.8	26.6	66.6#
43	72.6	13.9	53.9#



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\052616\
Data File : J0976820.D
Acq On : 26 May 2016 12:09 pm
Operator : DARSHNAP
Sample : fa34224-8 ma Inst : MSVOA6
Misc : MS34002,VJ5316,,,,,
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 26 13:47:23 2016
Quant Method : C:\msdchem\2\methods\MSJ052316a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed May 25 09:12:25 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.756	96	1066683	50.00	ug/L	0.00
56) Chlorobenzene-d5	10.846	117	848687	50.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	13.207	152	461563	50.00	ug/L	0.00
106) Tert Butyl Alcohol-d10	5.298	65	59760	250.00	ug/L	-0.01
System Monitoring Compounds						
36) Dibromofluoromethane	6.928	113	275789	51.07	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 102.14%			
46) 1,2-Dichloroethane-d4	7.476	65	315137	51.77	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 103.54%			
57) Toluene-d8	9.301	98	1123554	52.35	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 104.70%			
79) 4-Bromofluorobenzene	12.051	95	435740	51.22	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 102.44%			

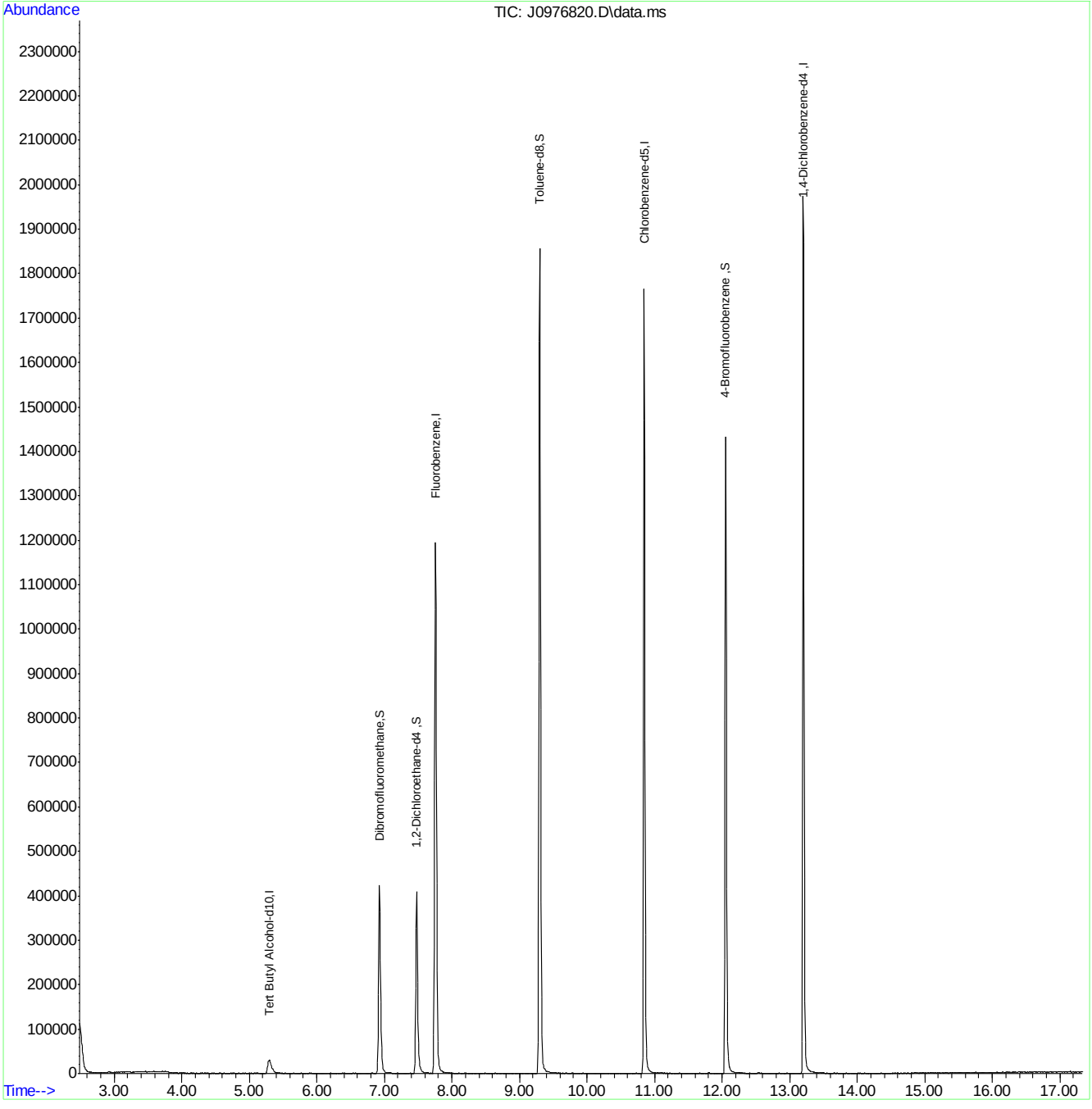
Target Compounds Qvalue

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\052616\
Data File : J0976820.D
Acq On : 26 May 2016 12:09 pm
Operator : DARSHNAP
Sample : fa34224-8 ma Inst : MSVOA6
Misc : MS34002,VJ5316,,,,,
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 26 13:47:23 2016
Quant Method : C:\msdchem\2\methods\MSJ052316a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed May 25 09:12:25 2016
Response via : Initial Calibration



MSJ052316a.M Thu May 26 13:56:02 2016 Page: 2

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\052616\
Data File : J0976821.D
Acq On : 26 May 2016 12:32 pm
Operator : DARSHNAP
Sample : fa34224-9 ma Inst : MSVOA6
Misc : MS34002,VJ5316,,,,,
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 26 13:48:08 2016
Quant Method : C:\msdchem\2\methods\MSJ052316a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed May 25 09:12:25 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.762	96	1089042	50.00	ug/L	0.00
56) Chlorobenzene-d5	10.846	117	866588	50.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	13.207	152	451636	50.00	ug/L	0.00
106) Tert Butyl Alcohol-d10	5.304	65	61499	250.00	ug/L	0.00
System Monitoring Compounds						
36) Dibromofluoromethane	6.928	113	283301	51.39	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 102.78%			
46) 1,2-Dichloroethane-d4	7.482	65	328525	52.86	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 105.72%			
57) Toluene-d8	9.301	98	1129290	51.53	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 103.06%			
79) 4-Bromofluorobenzene	12.051	95	428634	51.50	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 103.00%			
Target Compounds						Qvalue

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

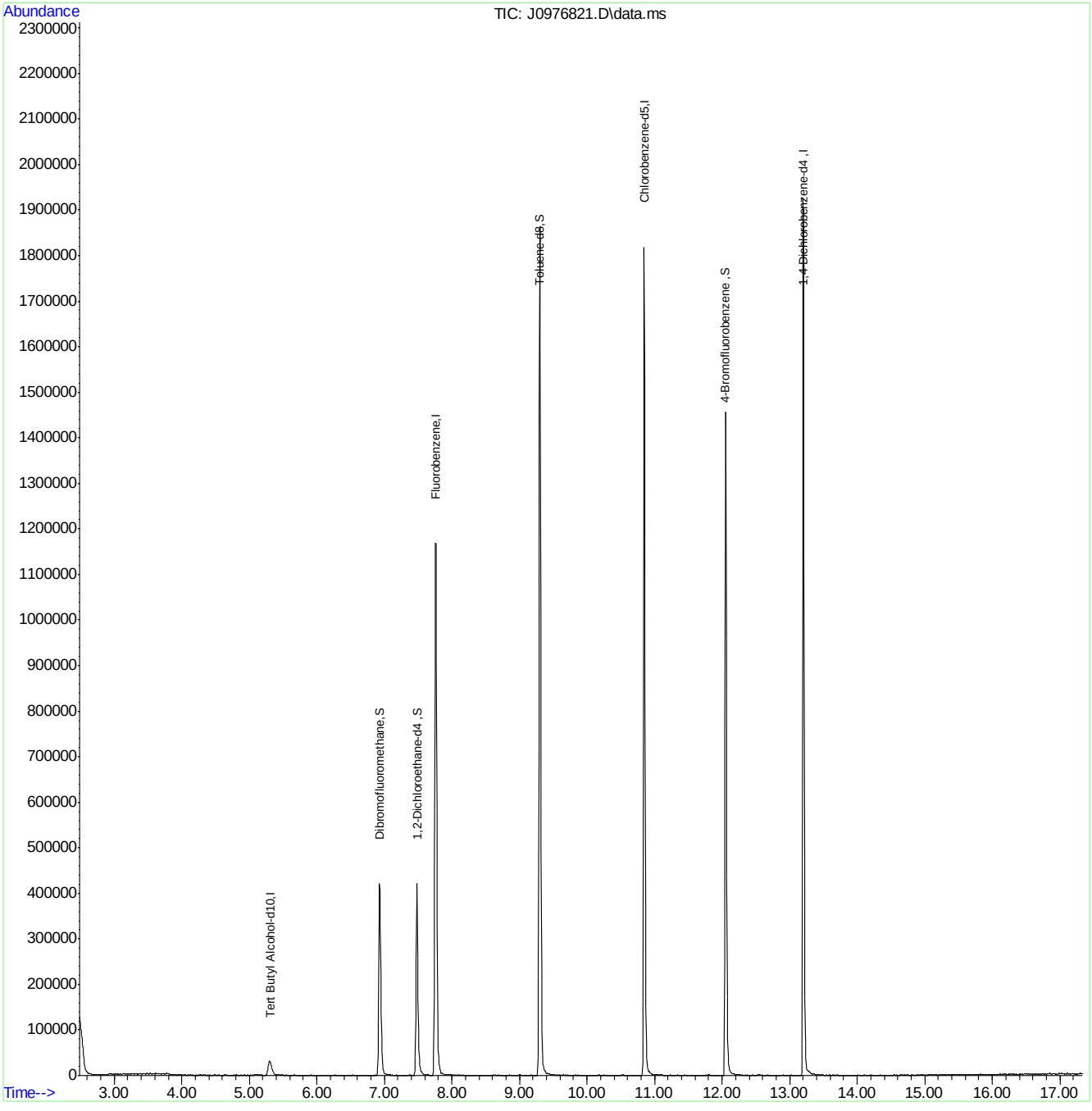
7.1.10

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\052616\
Data File : J0976821.D
Acq On : 26 May 2016 12:32 pm
Operator : DARSHNAP
Sample : fa34224-9 ma Inst : MSVOA6
Misc : MS34002,VJ5316,,,,,
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 26 13:48:08 2016
Quant Method : C:\msdchem\2\methods\MSJ052316a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed May 25 09:12:25 2016
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\052616\
Data File : Y28865.D
Acq On : 26 May 2016 10:00 am
Operator : ericp
Sample : MB Inst : MSVOA14
Misc : MS34004,VY1166,5.00,,,5,,
ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 26 10:52:44 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	7.121	96	1118196	50.00	ug/Kg	0.00
54) Chlorobenzene-d5	10.309	117	688163	50.00	ug/Kg	0.00
76) 1,4-Dichlorobenzene-d4	12.681	152	287366	50.00	ug/Kg	0.00
103) Tert Butyl Alcohol-d10	4.657	65	132354	250.00	ug/Kg	0.01

System Monitoring Compounds

35) Dibromofluoromethane	6.239	113	272367	52.91	ug/Kg	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 105.82%			
44) 1,2-Dichloroethane-d4	6.817	65	314313	57.54	ug/Kg	0.00
Spiked Amount 50.000	Range 72 - 135		Recovery = 115.08%			
55) Toluene-d8	8.745	98	1005728	51.87	ug/Kg	0.00
Spiked Amount 50.000	Range 75 - 126		Recovery = 103.74%			
77) 4-Bromofluorobenzene	11.532	174	193323	49.37	ug/Kg	0.00
Spiked Amount 50.000	Range 71 - 133		Recovery = 98.74%			

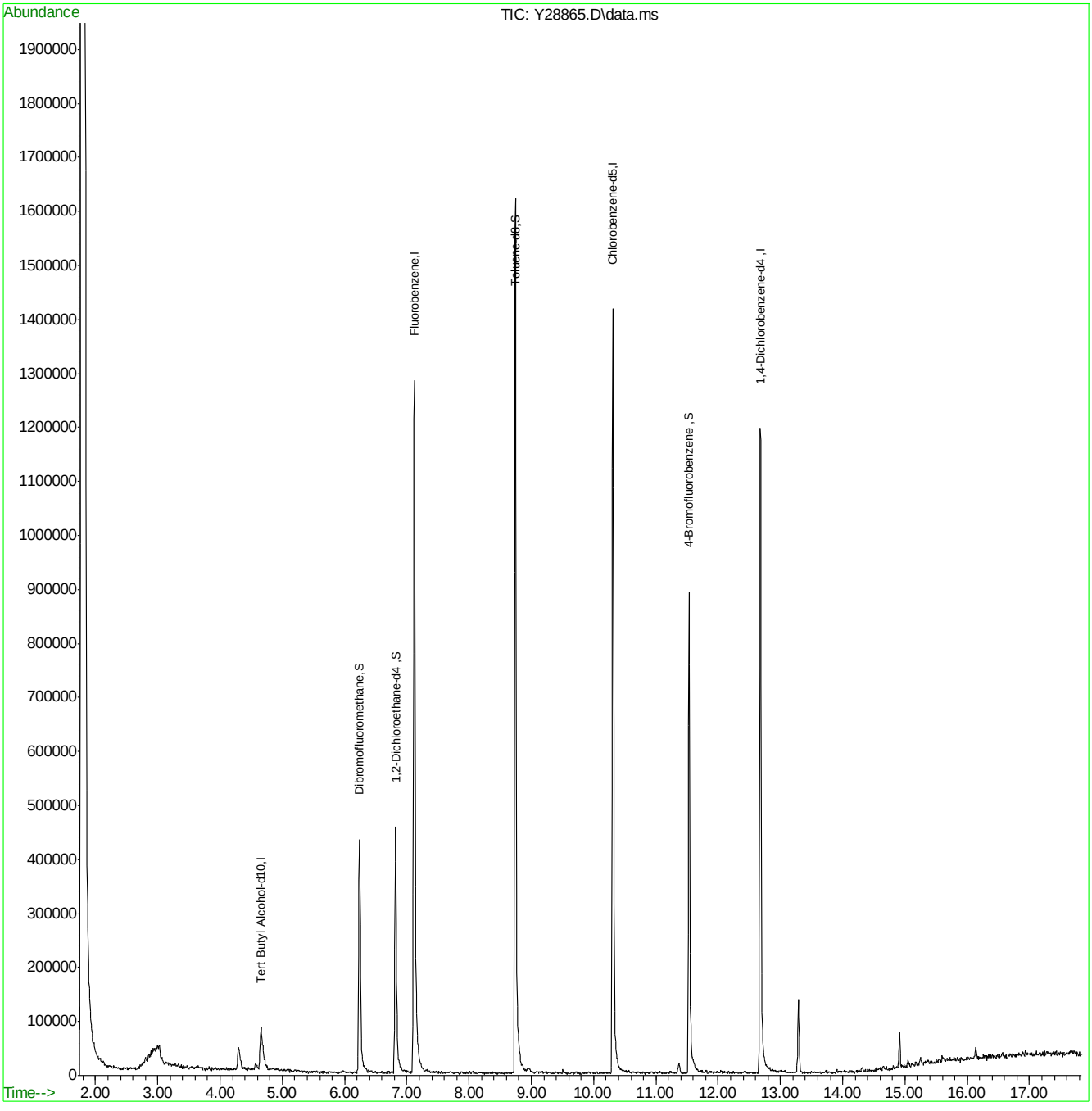
Target Compounds Qvalue

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\052616\
Data File : Y28865.D
Acq On : 26 May 2016 10:00 am
Operator : ericp
Sample : MB Inst : MSVOA14
Misc : MS34004,VY1166,5.00,,,5,,
ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 26 10:52:44 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 FA34224

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\052616\
Data File : J0976815.D
Acq On : 26 May 2016 10:05 am
Operator : DARSHNAP
Sample : mb ma Inst : MSVOA6
Misc : MS34002VJ5316,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 26 13:39:38 2016
Quant Method : C:\msdchem\2\methods\MSJ052316a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed May 25 09:12:25 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.756	96	1188066	50.00	ug/L	0.00
56) Chlorobenzene-d5	10.846	117	949415	50.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	13.201	152	496278	50.00	ug/L	0.00
106) Tert Butyl Alcohol-d10	5.298	65	77587	250.00	ug/L	-0.01
System Monitoring Compounds						
36) Dibromofluoromethane	6.929	113	298355	49.61	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 99.22%			
46) 1,2-Dichloroethane-d4	7.482	65	346150	51.05	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 102.10%			
57) Toluene-d8	9.301	98	1234251	51.41	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 102.82%			
79) 4-Bromofluorobenzene	12.051	95	477574	52.21	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 104.42%			
Target Compounds						Qvalue
105) 1,2,3-Trichlorobenzene	15.433	180	5215	0.68	ug/L	95

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

7.2.2

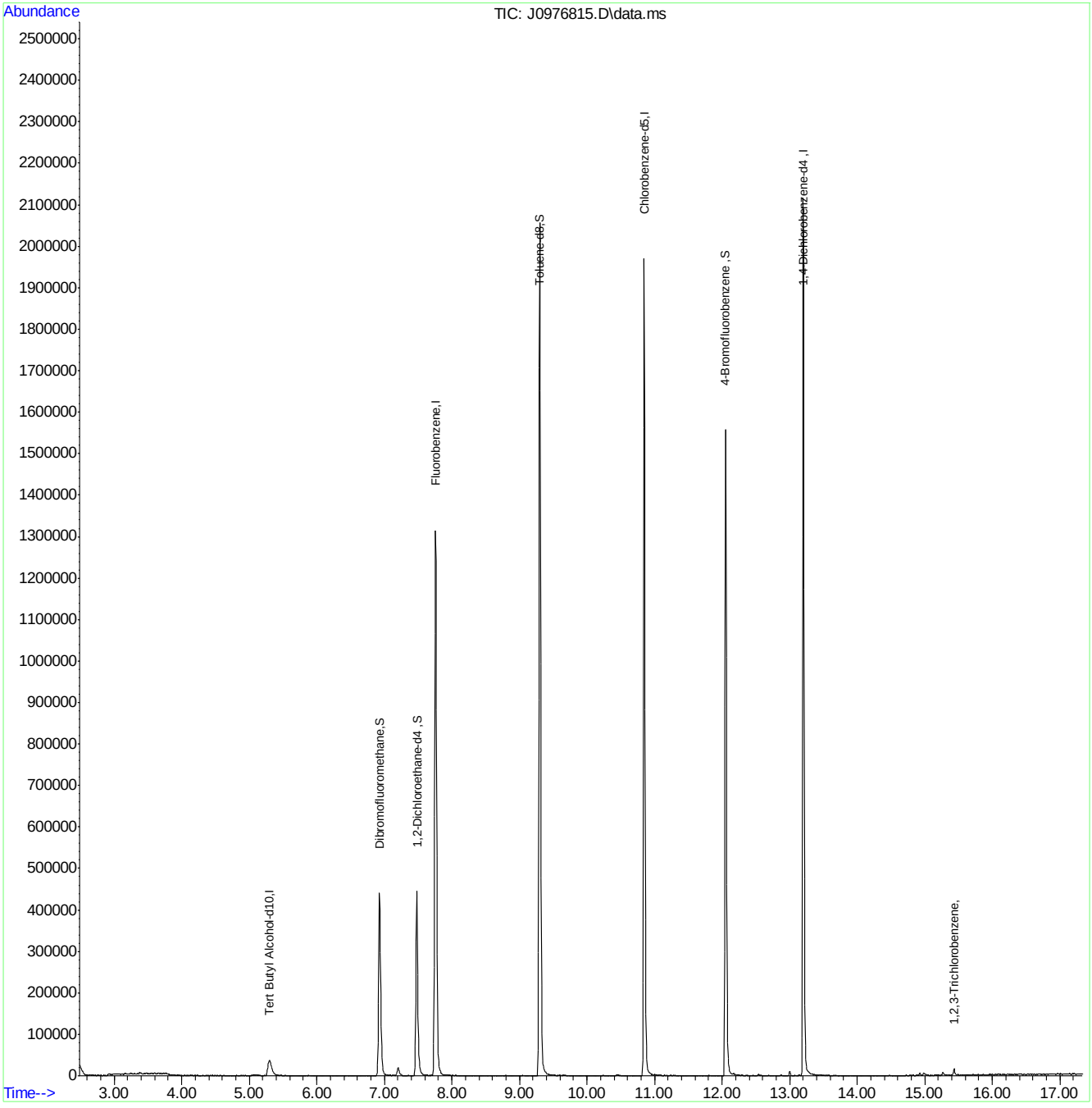
7

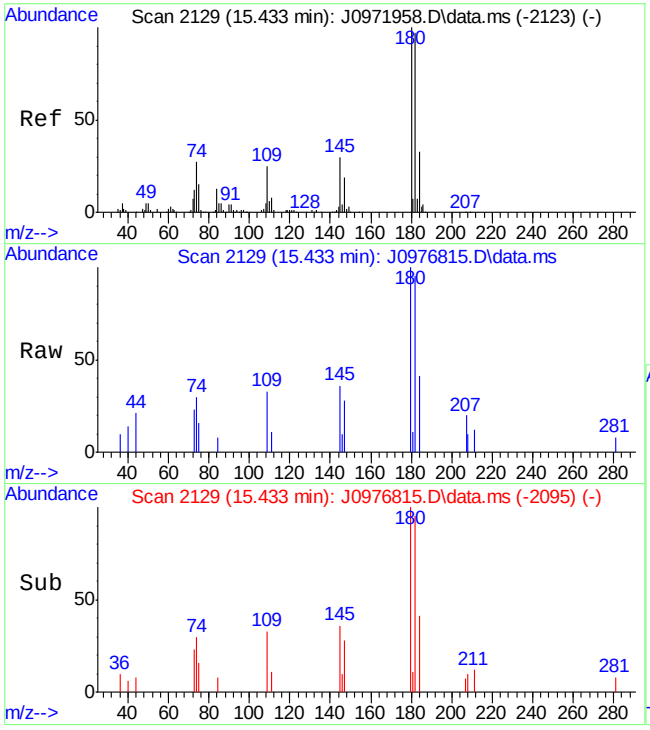
SGS ACCUTEST FA34224

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\052616\
Data File : J0976815.D
Acq On : 26 May 2016 10:05 am
Operator : DARSHNAP
Sample : mb ma Inst : MSVOA6
Misc : MS34002VJ5316,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 26 13:39:38 2016
Quant Method : C:\msdchem\2\methods\MSJ052316a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed May 25 09:12:25 2016
Response via : Initial Calibration

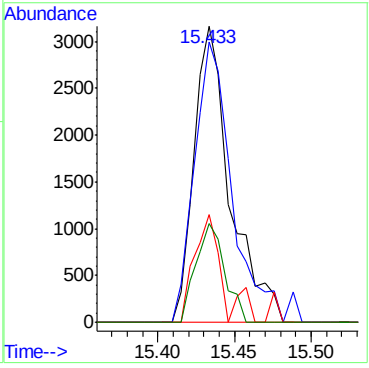




#105
1,2,3-Trichlorobenzene
Concen: 0.68 ug/L
RT: 15.433 min Scan# 2129
Delta R.T. 0.006 min
Lab File: J0976815.D
Acq: 26 May 2016 10:05 am

Tgt Ion:180 Resp: 5215

Ion	Ratio	Lower	Upper
180	100		
182	94.7	65.1	125.1
145	36.3	0.0	59.9
109	33.4	0.0	56.0



7.2.2

7

SGS ACCUTEST FA34224

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\052616\
Data File : Y28864.D
Acq On : 26 May 2016 9:33 am
Operator : ericp
Sample : BS MA Inst : MSVOA14
Misc : MS34004,VY1166,5.00,,,5,,
ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 26 10:03:05 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	1148969	50.00	ug/Kg	0.00
54) Chlorobenzene-d5	10.309	117	755864	50.00	ug/Kg	0.00
76) 1,4-Dichlorobenzene-d4	12.676	152	339221	50.00	ug/Kg	0.00
103) Tert Butyl Alcohol-d10	4.628	65	112179	250.00	ug/Kg	-0.02

System Monitoring Compounds						
35) Dibromofluoromethane	6.240	113	264531	50.01	ug/Kg	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 100.02%			
44) 1,2-Dichloroethane-d4	6.818	65	294466	52.46	ug/Kg	0.00
Spiked Amount 50.000	Range 72 - 135		Recovery = 104.92%			
55) Toluene-d8	8.746	98	1079966	50.71	ug/Kg	0.00
Spiked Amount 50.000	Range 75 - 126		Recovery = 101.42%			
77) 4-Bromofluorobenzene	11.532	174	234998	50.84	ug/Kg	0.00
Spiked Amount 50.000	Range 71 - 133		Recovery = 101.68%			

Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.981	85	556550	46.66	ug/Kg	93
3) Chloromethane	2.206	50	634801	52.98	ug/Kg	100
4) Vinyl Chloride	2.322	62	648313	53.84	ug/Kg	98
5) Bromomethane	2.717	94	289967	51.52	ug/Kg	98
6) Chloroethane	2.882	64	326959	55.37	ug/Kg	97
7) Trichlorofluoromethane	3.058	101	632874	55.75	ug/Kg	96
8) Ethyl Ether	3.405	59	293545	50.91	ug/Kg	95
9) 1,2-Dichlorotrifluoroe...	3.636	67	558517	56.46	ug/Kg	98
10) 1,1-Dichloroethene	3.648	61	726811	55.11	ug/Kg	96
11) Freon 113	3.709	101	411101	45.74	ug/Kg	98
12) Carbon Disulfide	3.691	76	1430600	51.90	ug/Kg	97
13) Iodomethane	3.812	142	557954	46.47	ug/Kg	94
14) Allyl chloride	4.177	41	545131	50.41	ug/Kg	93
15) Methylene Chloride	4.293	49	579592	59.83	ug/Kg	99
16) Acetone	4.342	43	401561	206.49	ug/Kg	100
17) Methyl acetate	4.488	43	1052776	288.04	ug/Kg	98
18) trans-1,2-Dichloroethene	4.488	61	627848	61.69	ug/Kg	97
19) Hexane	4.585	56	349386	44.82	ug/Kg	96
20) Methyl Tert Butyl Ether	4.609	73	948407	49.07	ug/Kg#	30
21) Acetonitrile	4.846	41	320325	507.17	ug/Kg	95
22) Di-isopropyl ether	5.029	45	1175080	53.91	ug/Kg	98
23) Chloroprene	5.139	53	619778	50.29	ug/Kg	99
24) 1,1-Dichloroethane	5.157	63	782630	57.37	ug/Kg	96
25) Acrylonitrile	5.193	53	569387	269.77	ug/Kg	97
26) ETBE	5.424	59	1087977	50.50	ug/Kg	96
27) Vinyl acetate	5.418	43	2984537	282.54	ug/Kg	93
28) cis-1,2-Dichloroethene	5.747	96	444218	51.85	ug/Kg	98
29) 2,2-Dichloropropane	5.869	77	380174	63.55	ug/Kg	98
30) Bromochloromethane	5.966	128	184551	50.97	ug/Kg	89
31) Cyclohexane	5.996	84	715313	50.10	ug/Kg	98
32) Chloroform	6.039	83	771367	56.39	ug/Kg	98
33) Ethyl acetate	6.161	43	1311970	284.86	ug/Kg	96
34) Tetrahydrofuran	6.234	42	80581	48.02	ug/Kg	96
36) Carbon Tetrachloride	6.215	117	524831	55.42	ug/Kg	98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\052616\
Data File : Y28864.D
Acq On : 26 May 2016 9:33 am
Operator : ericp
Sample : BS MA Inst : MSVOA14
Misc : MS34004,VY1166,5.00,,,5,,
ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 26 10:03:05 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	586792	55.86	ug/Kg	97
38) 2-Butanone	6.367	43	605593	229.06	ug/Kg	94
39) 1,1-Dichloropropene	6.416	75	611636	55.45	ug/Kg	97
40) Propionitrile	6.672	54	407576	514.24	ug/Kg	99
41) Methacrylonitrile	6.702	41	1590466	570.08	ug/Kg	92
42) Benzene	6.684	78	1732252	56.41	ug/Kg	97
43) TAME	6.799	73	964433	47.68	ug/Kg	95
45) 1,2-Dichloroethane	6.891	62	465396	54.74	ug/Kg	94
46) Trichloroethene	7.310	95	435400	54.89	ug/Kg	97
47) Methylcyclohexane	7.316	83	794488	50.67	ug/Kg	98
48) Dibromomethane	7.748	93	204911	54.54	ug/Kg	98
49) 1,2-Dichloropropane	7.840	63	414991	54.48	ug/Kg	93
50) Bromodichloromethane	7.907	83	495081	54.73	ug/Kg	94
51) Methyl methacrylate	8.052	41	194616	50.94	ug/Kg	89
52) 2-Chloroethyl vinyl ether	8.466	63	873899	251.65	ug/Kg	97
53) cis-1,3-Dichloropropene	8.551	75	625078	55.29	ug/Kg	98
56) Toluene	8.795	91	1680112	54.85	ug/Kg	95
57) 2-Nitropropane	9.002	41	309318	254.94	ug/Kg	94
58) 4-Methyl-2-pentanone	9.148	43	1206107	255.29	ug/Kg	93
59) trans-1,3-Dichloropropene	9.202	75	526638	61.86	ug/Kg	98
60) Tetrachloroethene	9.202	166	363072	50.90	ug/Kg	95
61) Ethyl methacrylate	9.342	69	297245	44.72	ug/Kg	97
62) 1,1,2-Trichloroethane	9.367	83	248237	53.03	ug/Kg	97
63) Dibromochloromethane	9.555	129	307852	54.84	ug/Kg	97
64) 1,3-Dichloropropane	9.640	76	515038	52.29	ug/Kg	96
65) 1,2-Dibromoethane	9.805	107	265209	51.86	ug/Kg	100
66) 2-hexanone	9.987	43	777105	232.64	ug/Kg	96
67) 1-Chlorohexane	10.285	91	487529	49.25	ug/Kg	95
68) Ethylbenzene	10.340	91	1791510	56.26	ug/Kg	95
69) Chlorobenzene	10.328	112	1030113	54.95	ug/Kg	99
70) 1,1,1,2-Tetrachloroethane	10.382	131	340174	54.77	ug/Kg	98
71) m,p-Xylene	10.480	91	2631833	115.05	ug/Kg	96
72) o-Xylene	10.918	91	1335246	54.33	ug/Kg	100
73) Styrene	10.973	104	980733	54.68	ug/Kg	98
74) Bromoform	11.015	173	150913	50.51	ug/Kg	99
75) Isopropylbenzene	11.234	105	1683133	56.03	ug/Kg	95
78) cis-1,4-Dichloro-2-butene	11.575	53	86249	49.54	ug/Kg	89
79) n-Propylbenzene	11.654	91	1968456	59.61	ug/Kg	93
80) Bromobenzene	11.648	156	358919	55.37	ug/Kg	97
81) 1,1,2,2-Tetrachloroethane	11.715	83	350795	52.88	ug/Kg	97
82) 1,3,5-Trimethylbenzene	11.842	105	1473475	57.76	ug/Kg	95
83) 2-Chlorotoluene	11.824	91	1353792	58.45	ug/Kg	98
84) trans-1,4-Dichloro-2-B...	11.891	53	89301	51.58	ug/Kg	90
85) 1,2,3-Trichloropropane	11.861	110	96194	54.21	ug/Kg	93
86) Cyclohexanone	11.909	55	60747	192.64	ug/Kg	96
87) 4-Chlorotoluene	11.989	91	1202044	57.16	ug/Kg	100
88) tert-Butylbenzene	12.177	91	892158	57.96	ug/Kg	99
89) 1,2,4-Trimethylbenzene	12.244	105	1406302	57.46	ug/Kg	96
90) Pentachloroethane	12.214	167	203043	54.50	ug/Kg	98
91) sec-Butylbenzene	12.360	105	1915061	58.71	ug/Kg	98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\052616\
Data File : Y28864.D
Acq On : 26 May 2016 9:33 am
Operator : ericp
Sample : BS MA Inst : MSVOA14
Misc : MS34004,VY1166,5.00,,,5,,
ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 26 10:03:05 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	1489551	55.92	ug/Kg	99
93) 1,3-Dichlorobenzene	12.603	146	709334	54.96	ug/Kg	96
94) 1,4-Dichlorobenzene	12.694	146	697560	52.87	ug/Kg	95
95) n-Butylbenzene	12.938	92	844100	54.11	ug/Kg	91
96) Benzyl Chloride	12.938	126	127924	51.91	ug/Kg#	88
97) 1,2-Dichlorobenzene	13.132	146	659610	53.89	ug/Kg	98
98) 1,2-Dibromo-3-Chloropr...	13.941	75	63658	52.95	ug/Kg	87
99) Hexachlorobutadiene	14.556	225	239115	50.34	ug/Kg	94
100) 1,2,4-Trichlorobenzene	14.586	180	420250	49.69	ug/Kg	96
101) Naphthalene	14.872	128	1060568	56.91	ug/Kg	99
102) 1,2,3-Trichlorobenzene	15.036	180	425848	52.34	ug/Kg	97
104) Ethanol	3.569	45	65526	1073.08	ug/Kg	86
105) Acrolein	4.013	56	273401	261.31	ug/Kg	98
106) Tert butyl alcohol	4.700	59	314708	490.02	ug/Kg	92
107) Isobutyl alcohol	6.891	42	145976	1024.37	ug/Kg	90
108) Tert Amyl Alcohol	7.000	59	248043	483.89	ug/Kg	89
109) 1,4-Dioxane	8.113	88	66543	1056.90	ug/Kg	91

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

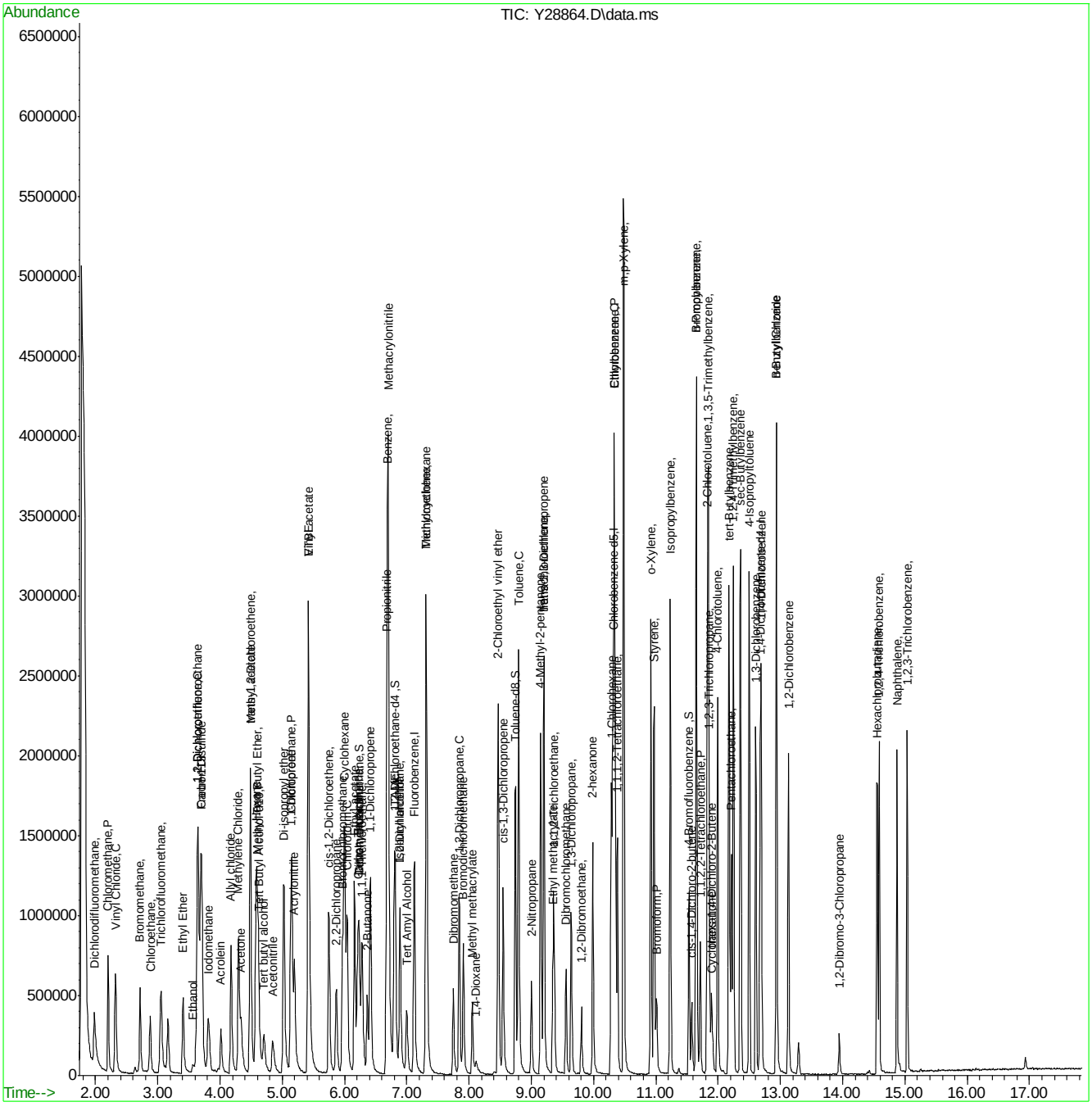
7.3.1

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\052616\
Data File : Y28864.D
Acq On : 26 May 2016 9:33 am
Operator : ericp
Sample : BS MA Inst : MSVOA14
Misc : MS34004,VY1166,5.00,,,5,,
ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 26 10:03:05 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 FA34224

Manual Integrations APPROVED (compounds with "m" flag)
Juan Garcia
05/26/16 17:42

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\052616\
Data File : J0976814.D
Acq On : 26 May 2016 9:43 am
Operator : DARSHNAP
Sample : bs ma Inst : MSVOA6
Misc : MS34002,VJ5316,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 26 10:16:40 2016
Quant Method : C:\msdchem\2\methods\MSJ052316a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed May 25 09:12:25 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.756	96	1320040	50.00	ug/L	0.00
56) Chlorobenzene-d5	10.846	117	1058455	50.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	13.201	152	600524	50.00	ug/L	0.00
106) Tert Butyl Alcohol-d10	5.298	65	89092	250.00	ug/L	-0.01
System Monitoring Compounds						
36) Dibromofluoromethane	6.922	113	336076	50.29	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 100.58%			
46) 1,2-Dichloroethane-d4	7.476	65	379741	50.41	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 100.82%			
57) Toluene-d8	9.301	98	1337934	49.99	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 99.98%			
79) 4-Bromofluorobenzene	12.051	95	556331	50.27	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 100.54%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.700	85	223254	26.00	ug/L	95
3) Chloromethane	2.901	50	240894	24.89	ug/L	96
4) Vinyl Chloride	3.047	62	244597	24.91	ug/L	98
5) 1,3-Butadiene	3.023	54	5991	1.48	ug/L #	83
6) Bromomethane	3.461	94	146368	25.27	ug/L	99
7) Chloroethane	3.625	64	117124	25.68	ug/L	96
8) Trichlorofluoromethane	3.844	101	315129m	24.05	ug/L	
9) Ethyl Ether	4.124	59	129539	22.36	ug/L	95
10) 1,2-Dichlorotrifluoroe...	4.367	67	248042	27.43	ug/L	96
11) 1,1-Dichloroethene	4.398	61	312408	27.65	ug/L	99
12) Freon 113	4.471	101	186592	23.65	ug/L	96
13) Carbon Disulfide	4.477	76	620092	23.72	ug/L	99
14) Iodomethane	4.586	142	302748	23.61	ug/L	97
15) Allyl chloride	4.921	41	233240	24.07	ug/L	98
16) Methylene Chloride	5.042	49	239952	23.78	ug/L	99
17) Acetone	5.067	58	45679	100.49	ug/L	94
18) Methyl acetate	5.195	74	94808	120.68	ug/L	97
19) trans-1,2-Dichloroethene	5.231	61	294520	29.04	ug/L	97
20) Hexane	5.298	56	166513	24.66	ug/L	97
21) Methyl Tert Butyl Ether	5.334	73	453850	23.03	ug/L	91
22) Acetonitrile	5.584	40	59429	198.53	ug/L	97
23) Di-isopropyl ether	5.712	45	525147	23.80	ug/L	99
24) Chloroprene	5.870	53	264933	25.24	ug/L	98
25) 1,1-Dichloroethane	5.894	63	362934	26.84	ug/L	99
26) Acrylonitrile	5.925	53	210949	111.65	ug/L	98
27) ETBE	6.113	59	528351	23.46	ug/L	99
28) Vinyl acetate	6.107	43	1174468	102.38	ug/L	100
29) cis-1,2-Dichloroethene	6.472	96	215011	24.67	ug/L	96
30) 2,2-Dichloropropane	6.600	77	305106	27.47	ug/L	99
31) Bromochloromethane	6.685	128	91023	23.31	ug/L	94
32) Cyclohexane	6.740	56	327541	26.11	ug/L	98
33) Chloroform	6.734	83	367580	25.10	ug/L	99
34) Ethyl acetate	6.807	43	448901	108.85	ug/L	100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\052616\
Data File : J0976814.D
Acq On : 26 May 2016 9:43 am
Operator : DARSHNAP
Sample : bs ma Inst : MSVOA6
Misc : MS34002,VJ5316,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 26 10:16:40 2016
Quant Method : C:\msdchem\2\methods\MSJ052316a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed May 25 09:12:25 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
35) Tetrahydrofuran	6.916	42	26610	21.74 ug/L	94
37) Carbon Tetrachloride	6.928	117	295359m	26.74 ug/L	
38) 1,1,1-Trichloroethane	6.995	97	321337	24.60 ug/L	99
39) 2-Butanone	7.020	43	198391	110.33 ug/L	97
40) 1,1-Dichloropropene	7.105	75	268192	26.56 ug/L	98
41) tert-Butyl Formate	7.184	59	1287098	242.34 ug/L	99
42) Propionitrile	7.330	54	158249	237.10 ug/L #	76
43) Methacrylonitrile	7.360	41	644123	233.47 ug/L	98
44) Benzene	7.354	78	807051	25.45 ug/L	98
45) TAME	7.433	73	470215	22.88 ug/L	98
47) 1,2-Dichloroethane	7.543	62	245631	25.28 ug/L	97
48) Trichloroethene	7.932	95	213004	26.16 ug/L	95
49) Methylcyclohexane	7.956	83	385044	27.57 ug/L	97
50) Dibromomethane	8.358	93	108494	25.69 ug/L	97
51) 1,2-Dichloropropane	8.443	63	190007	24.17 ug/L	96
52) Bromodichloromethane	8.492	83	257689	25.67 ug/L	94
53) Methyl methacrylate	8.595	41	98803	25.63 ug/L	93
54) 2-Chloroethyl vinyl ether	9.003	63	479535	123.94 ug/L	98
55) cis-1,3-Dichloropropene	9.106	75	300331	26.63 ug/L	96
58) Toluene	9.350	91	876660	26.09 ug/L	99
59) 2-Nitropropane	9.556	41	130108	119.53 ug/L	96
60) 4-Methyl-2-pentanone	9.672	43	482878	117.36 ug/L	98
61) trans-1,3-Dichloropropene	9.733	75	272582	29.01 ug/L	97
62) Tetrachloroethene	9.757	166	227212	26.79 ug/L	99
63) Ethyl methacrylate	9.836	69	158040	21.14 ug/L	95
64) 1,1,2-Trichloroethane	9.903	83	132404	25.20 ug/L	98
65) Dibromochloromethane	10.098	129	181886	26.52 ug/L	96
66) 1,3-Dichloropropane	10.183	76	257619	24.18 ug/L	98
67) 1,2-Dibromoethane	10.360	107	150458	25.56 ug/L	97
68) 2-hexanone	10.487	43	332817	110.48 ug/L	98
69) 1-Chlorohexane	10.791	91	280281	26.01 ug/L	95
70) Ethylbenzene	10.858	91	1011050	25.69 ug/L	100
71) Chlorobenzene	10.864	112	583144	25.55 ug/L	99
72) 1,1,1,2-Tetrachloroethane	10.913	131	200685	26.82 ug/L	99
73) m,p-Xylene	10.998	91	1573212	52.61 ug/L	97
74) o-Xylene	11.436	91	802804	28.35 ug/L	98
75) Styrene	11.485	104	600689	24.90 ug/L	100
76) Bromoform	11.546	173	112992	25.24 ug/L	94
77) Isopropylbenzene	11.740	105	990919	29.78 ug/L	98
80) cis-1,4-Dichloro-2-butene	12.087	53	40715	23.42 ug/L	93
81) n-Propylbenzene	12.160	91	1197184	28.22 ug/L	98
82) Bromobenzene	12.185	156	254172	25.19 ug/L	95
83) 1,1,2,2-Tetrachloroethane	12.221	83	189317	24.58 ug/L	97
84) 1,3,5-Trimethylbenzene	12.343	105	873011	28.03 ug/L	99
85) 2-Chlorotoluene	12.349	91	819332	26.53 ug/L	99
86) trans-1,4-Dichloro-2-B...	12.398	53	39515	24.17 ug/L	93
87) 1,2,3-Trichloropropane	12.379	110	50529	25.59 ug/L	99
88) Cyclohexanone	12.446	55	28760	134.24 ug/L	88
89) 4-Chlorotoluene	12.519	91	752040	27.06 ug/L	100
90) a-Methyl Styrene	12.750	118	8243	0.47 ug/L #	1

SGS ACCUTEST FA34224

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\052616\
Data File : J0976814.D
Acq On : 26 May 2016 9:43 am
Operator : DARSHNAP
Sample : bs ma Inst : MSVOA6
Misc : MS34002,VJ5316,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 26 10:16:40 2016
Quant Method : C:\msdchem\2\methods\MSJ052316a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed May 25 09:12:25 2016
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
91)	tert-Butylbenzene	12.683	91	494443	27.48	ug/L		99
92)	1,2,4-Trimethylbenzene	12.750	105	865867	27.78	ug/L		98
93)	Pentachloroethane	12.738	167	155832	25.66	ug/L		98
94)	sec-Butylbenzene	12.866	105	1108314	29.53	ug/L		99
95)	4-Isopropyltoluene	13.000	119	931846	28.45	ug/L		100
96)	1,3-Dichlorobenzene	13.134	146	458179	26.27	ug/L		99
97)	1,4-Dichlorobenzene	13.219	146	464436	25.34	ug/L		98
98)	n-Butylbenzene	13.432	92	501776	28.12	ug/L		99
99)	Benzyl Chloride	13.450	126	64990	24.33	ug/L	#	45
100)	1,2-Dichlorobenzene	13.645	146	412466	25.35	ug/L		99
101)	1,2-Dibromo-3-Chloropr...	14.381	75	23479	22.02	ug/L		94
102)	Hexachlorobutadiene	14.928	225	195121	26.83	ug/L		96
103)	1,2,4-Trichlorobenzene	14.971	180	279376	25.82	ug/L		99
104)	Naphthalene	15.257	128	424329	26.22	ug/L		100
105)	1,2,3-Trichlorobenzene	15.427	180	236200	25.31	ug/L		99
107)	Ethanol	4.276	45	24022m	480.86	ug/L		
108)	acrolein	4.757	56	88627	118.16	ug/L		94
109)	Tert Butyl Alcohol	5.371	59	100989	219.13	ug/L		81
110)	tert Amyl alcohol	7.573	59	81835	248.97	ug/L		95
111)	Isobutyl alcohol	7.452	42	65042	447.52	ug/L	#	88
112)	1,4-Dioxane	8.674	88	24608	473.80	ug/L		93
113)	3,3-Dimethyl-1-butanol	10.432	57	432011	1074.99	ug/L		98

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

7.3.2

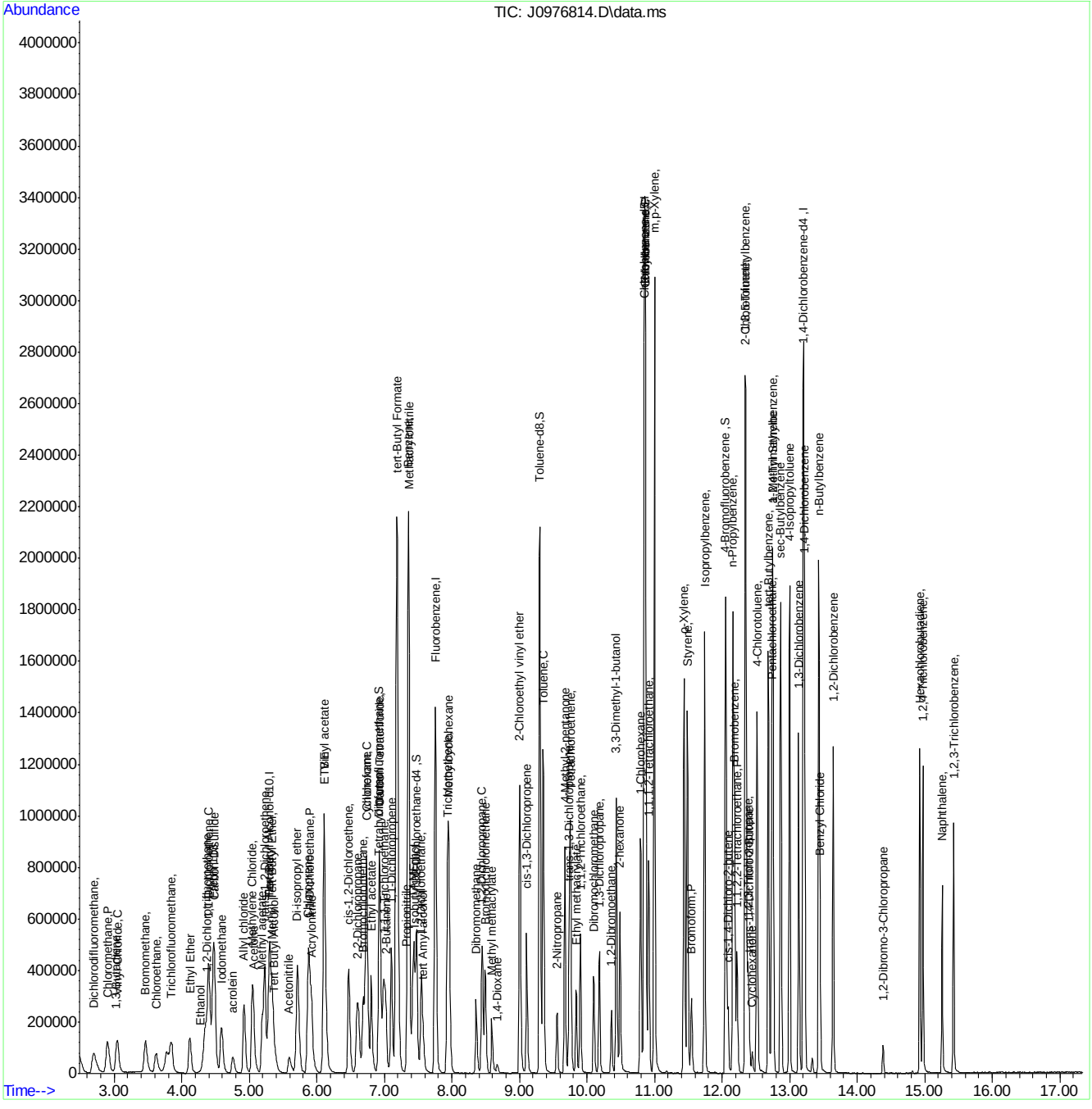
7

SGS ACCUTEST FA34224

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\052616\
Data File : J0976814.D
Acq On : 26 May 2016 9:43 am
Operator : DARSHNAP
Sample : bs ma Inst : MSVOA6
Misc : MS34002,VJ5316,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 26 10:16:40 2016
Quant Method : C:\msdchem\2\methods\MSJ052316a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed May 25 09:12:25 2016
Response via : Initial Calibration



SGS ACCUTEST FA34224

Manual Integration Approval Summary

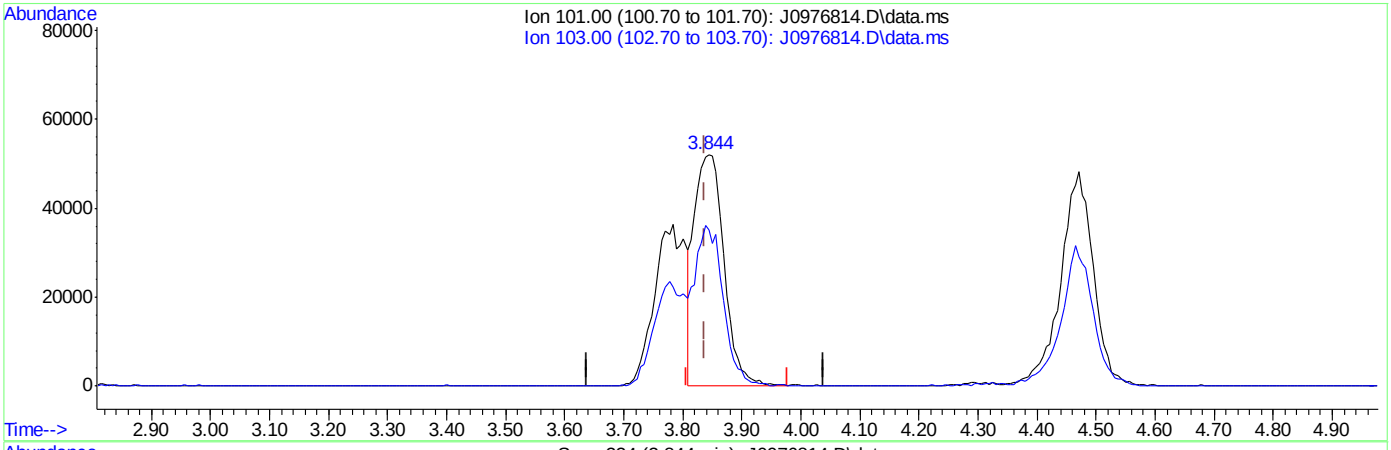
Sample Number:	VJ5316-BS	**Method:**	SW846 8260C
Lab FileID:	J0976814.D	**Analyst approved:**	05/26/16 14:03 Darshna Patel
Injection Time:	05/26/16 09:43	**Supervisor approved:**	05/26/16 17:42 Juan Garcia

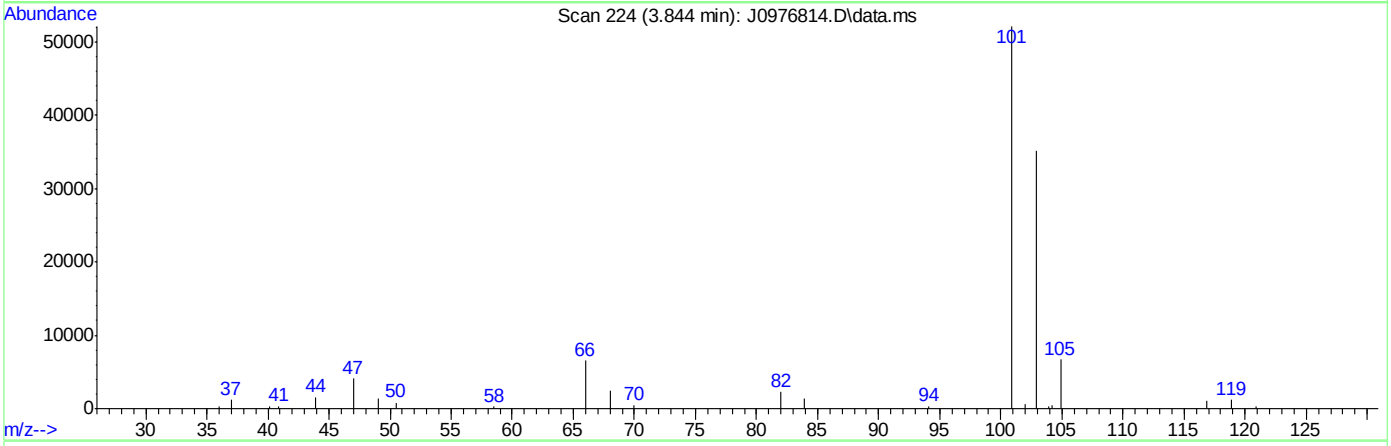
Parameter	CAS	Sig#	R.T. (min.)	Reason
Trichlorofluoromethane	75-69-4		3.84	Split peak
Ethyl Alcohol	64-17-5		4.28	Poor instrument integration
Carbon Tetrachloride	56-23-5		6.93	Overlapping peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\052616\
Data File : J0976814.D
Acq On : 26 May 2016 9:43 am
Operator : DARSHNAP
Sample : bs Inst : MSVOA6
Misc : MS33990,VJ5315,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 26 10:16:10 2016
Quant Method : C:\msdchem\2\methods\MSJ052316a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed May 25 09:12:25 2016
Response via : Initial Calibration





TIC: J0976814.D\data.ms

(8) Trichlorofluoromethane ( )

3.844min (+0.006) 14.01ug/L

response 183582

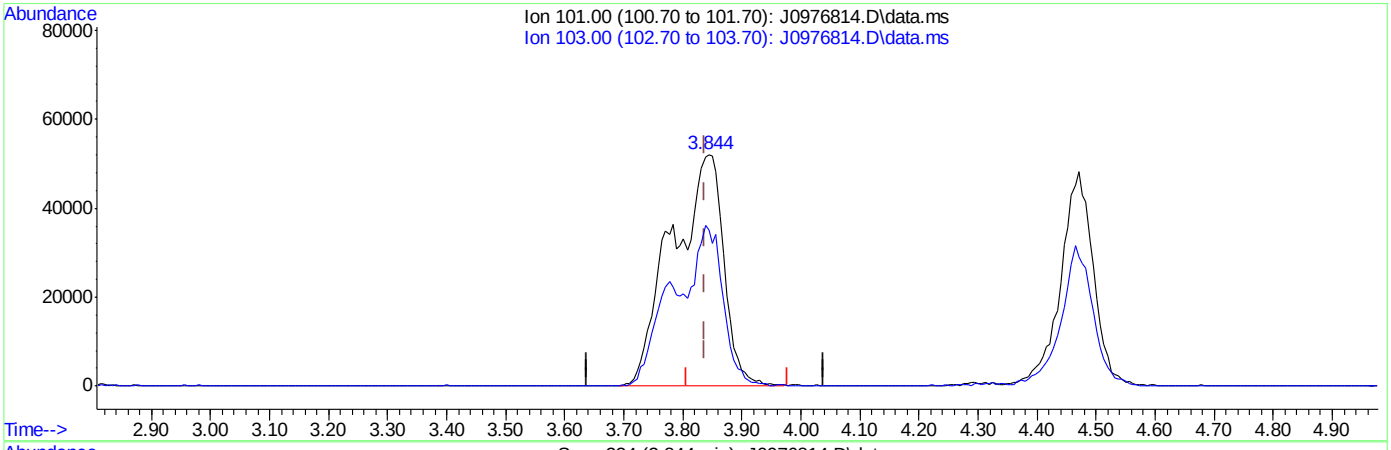
Ion	Exp%	Act%
101.00	100	100
103.00	62.30	67.59
0.00	0.00	0.00
0.00	0.00	0.00

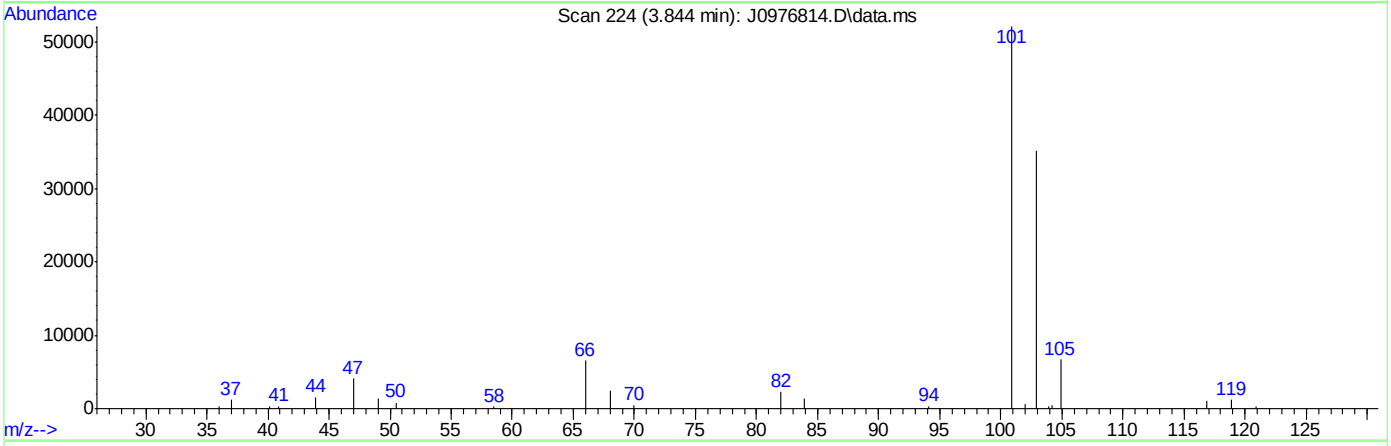
SGS ACCUTEST FA34224

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\052616\
Data File : J0976814.D
Acq On : 26 May 2016 9:43 am
Operator : DARSHNAP
Sample : bs Inst : MSVOA6
Misc : MS33990,VJ5315,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 26 10:16:10 2016
Quant Method : C:\msdchem\2\methods\MSJ052316a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed May 25 09:12:25 2016
Response via : Initial Calibration





TIC: J0976814.D\data.ms

(8) Trichlorofluoromethane ( )

3.844min (+0.006) 24.05ug/L m

response 315129

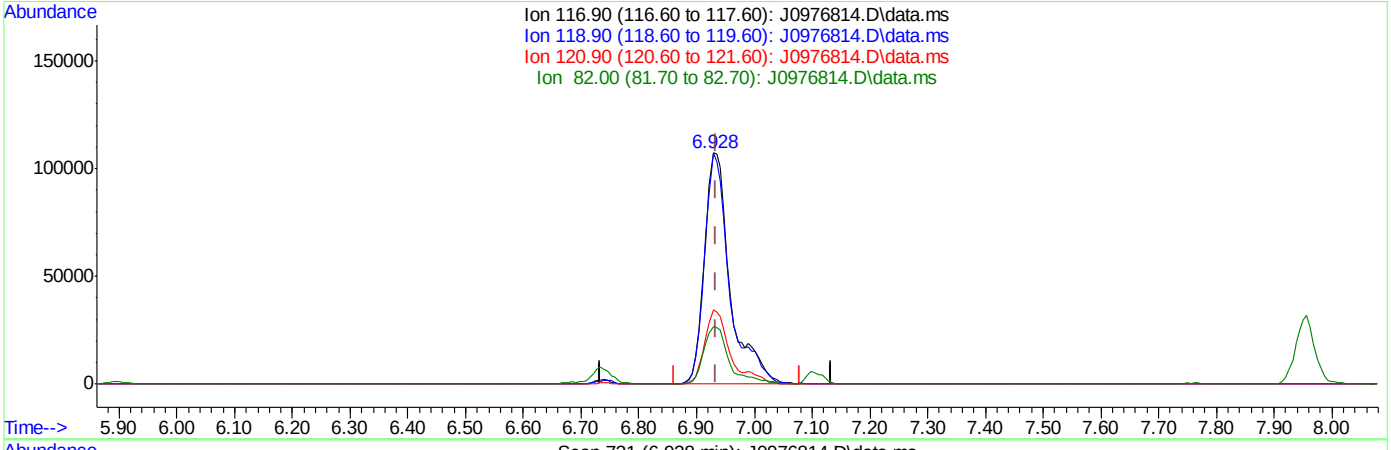
Ion	Exp%	Act%
101.00	100	100
103.00	62.30	67.59
0.00	0.00	0.00
0.00	0.00	0.00

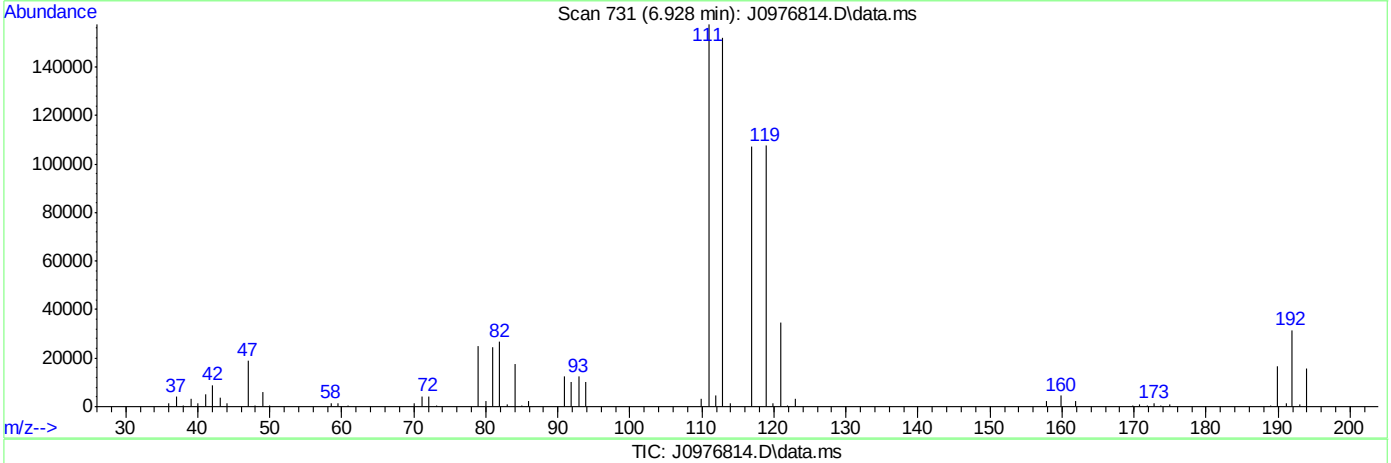
SGS ACCUTEST FA34224

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\052616\
Data File : J0976814.D
Acq On : 26 May 2016 9:43 am
Operator : DARSHNAP
Sample : bs Inst : MSVOA6
Misc : MS33990,VJ5315,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 26 10:16:10 2016
Quant Method : C:\msdchem\2\methods\MSJ052316a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed May 25 09:12:25 2016
Response via : Initial Calibration





TIC: J0976814.D\data.ms

(37) Carbon Tetrachloride ( )

6.928min (-0.006) 30.34ug/L

response 335158

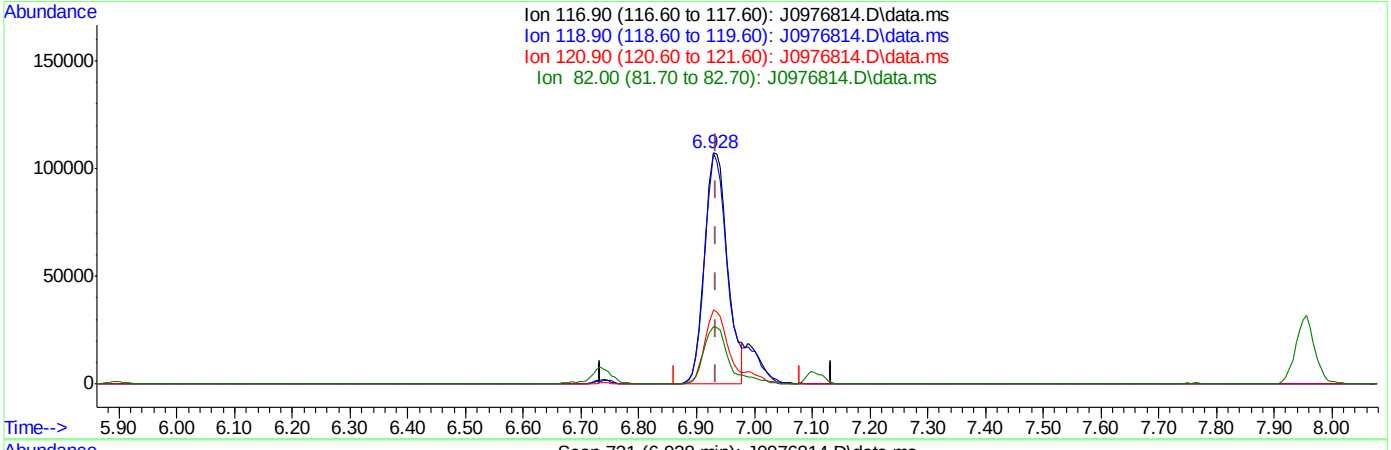
Ion	Exp%	Act%
116.90	100	100
118.90	99.10	100.35
120.90	32.20	32.21
82.00	25.20	24.97

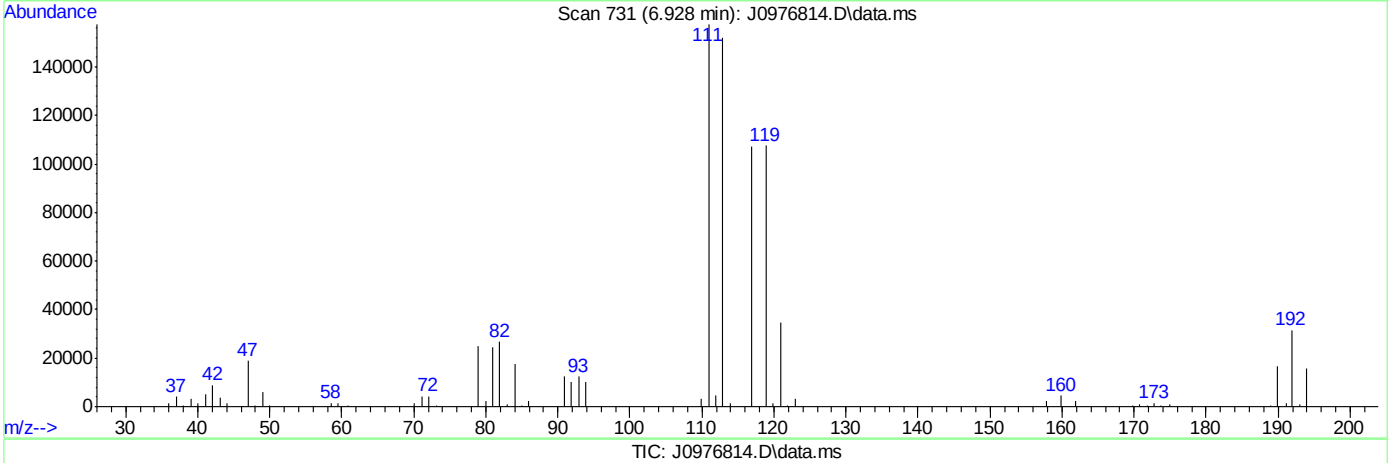
SGS ACCUTEST FA34224

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\052616\
Data File : J0976814.D
Acq On : 26 May 2016 9:43 am
Operator : DARSHNAP
Sample : bs Inst : MSVOA6
Misc : MS33990,VJ5315,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 26 10:16:10 2016
Quant Method : C:\msdchem\2\methods\MSJ052316a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed May 25 09:12:25 2016
Response via : Initial Calibration





TIC: J0976814.D\data.ms

(37) Carbon Tetrachloride ( )

6.928min (-0.006) 26.74ug/L m

response 295359

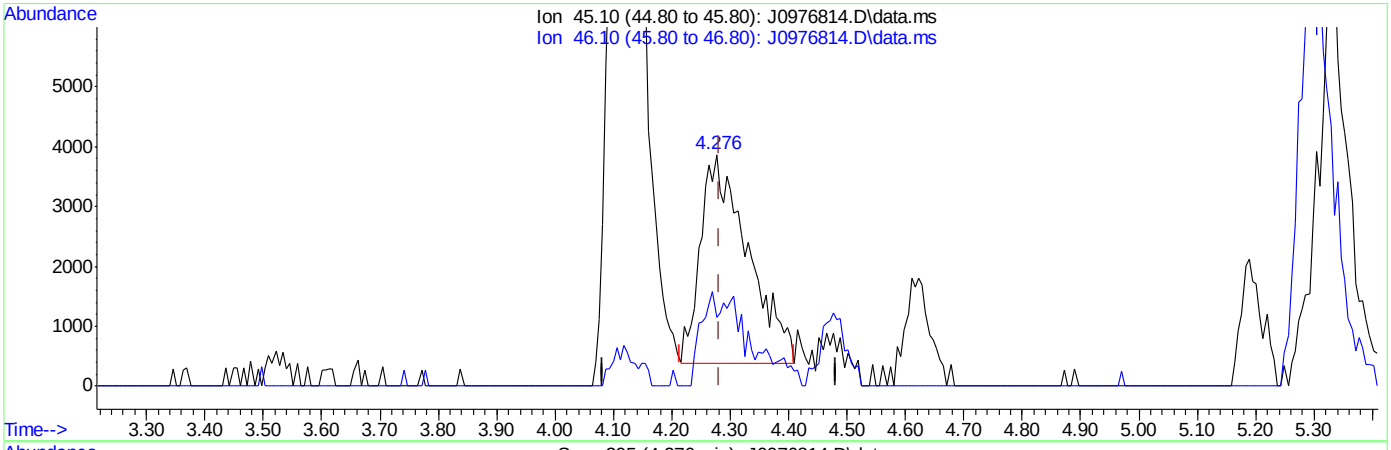
Ion	Exp%	Act%
116.90	100	100
118.90	99.10	100.35
120.90	32.20	32.21
82.00	25.20	24.97

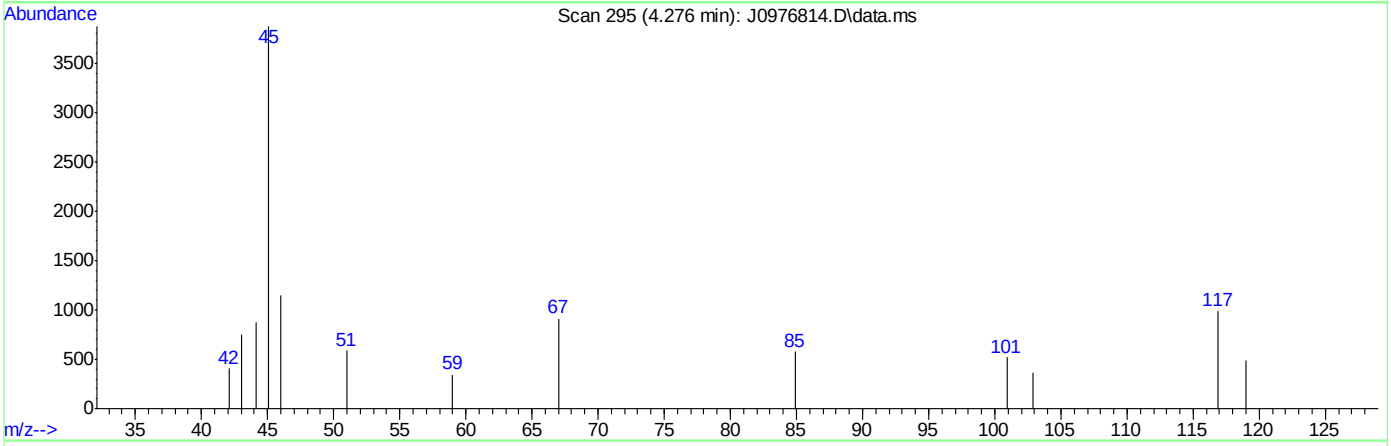
SGS ACCUTEST FA34224

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\052616\
Data File : J0976814.D
Acq On : 26 May 2016 9:43 am
Operator : DARSHNAP
Sample : bs Inst : MSVOA6
Misc : MS33990,VJ5315,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 26 10:16:10 2016
Quant Method : C:\msdchem\2\methods\MSJ052316a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed May 25 09:12:25 2016
Response via : Initial Calibration





TIC: J0976814.D\data.ms

(107) Ethanol

4.276min (-0.006) 389.68ug/L

response 19467

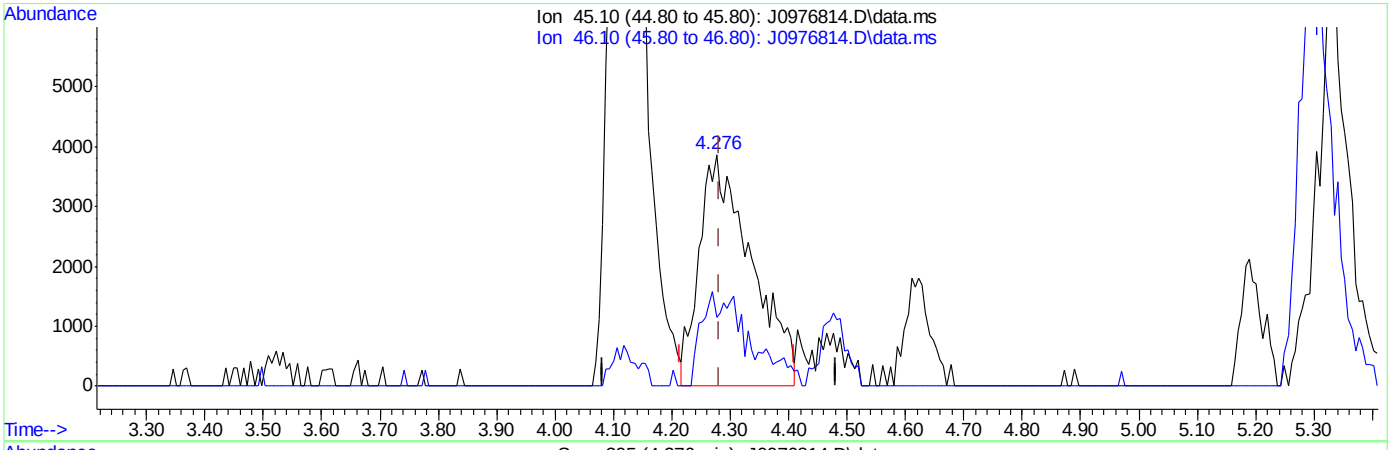
Ion	Exp%	Act%
45.10	100	100
46.10	34.10	33.07
0.00	0.00	0.00
0.00	0.00	0.00

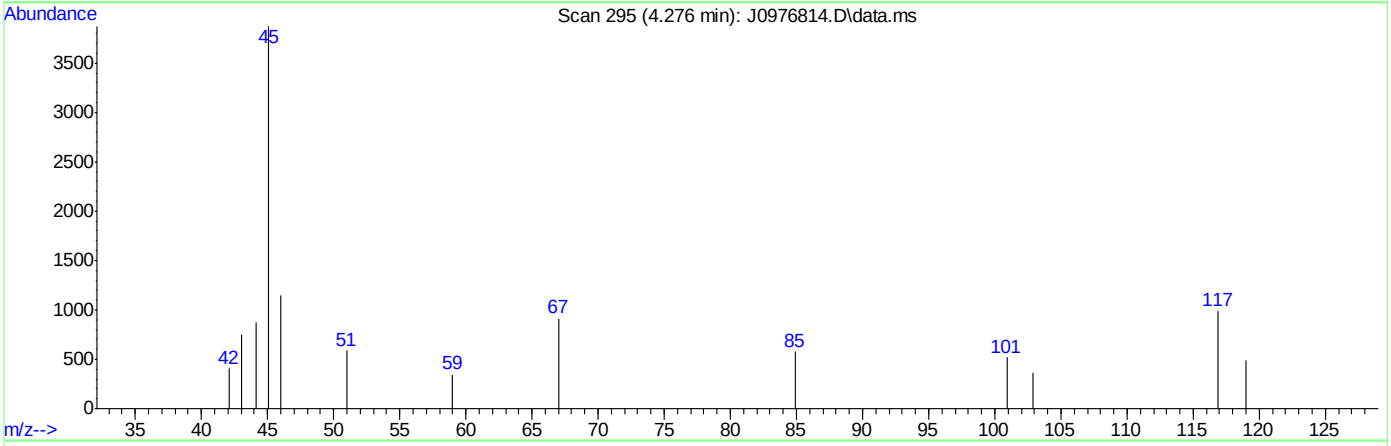
SGS ACCUTEST FA34224

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\052616\
Data File : J0976814.D
Acq On : 26 May 2016 9:43 am
Operator : DARSHNAP
Sample : bs Inst : MSVOA6
Misc : MS33990,VJ5315,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 26 10:16:10 2016
Quant Method : C:\msdchem\2\methods\MSJ052316a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed May 25 09:12:25 2016
Response via : Initial Calibration





TIC: J0976814.D\data.ms

(107) Ethanol

4.276min (-0.006) 480.86ug/L m

response 24022

Ion	Exp%	Act%
45.10	100	100
46.10	34.10	29.73
0.00	0.00	0.00
0.00	0.00	0.00

SGS ACCUTEST FA34224

Manual Integrations APPROVED (compounds with "m" flag)
Juan Garcia
05/26/16 17:43

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\052616\
Data File : J0976822.D
Acq On : 26 May 2016 12:54 pm
Operator : DARSHNAP
Sample : fa34224-1ms ma Inst : MSVOA6
Misc : MS34002,VJ5316,,,,,
ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 26 13:48:36 2016
Quant Method : C:\msdchem\2\methods\MSJ052316a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed May 25 09:12:25 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.756	96	1212332	50.00	ug/L	0.00
56) Chlorobenzene-d5	10.846	117	991662	50.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	13.201	152	557240	50.00	ug/L	0.00
106) Tert Butyl Alcohol-d10	5.298	65	94712	250.00	ug/L	-0.01
System Monitoring Compounds						
36) Dibromofluoromethane	6.929	113	306768	49.98	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 99.96%			
46) 1,2-Dichloroethane-d4	7.482	65	350067	50.60	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 101.20%			
57) Toluene-d8	9.301	98	1231422	49.11	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 98.22%			
79) 4-Bromofluorobenzene	12.051	95	515859	50.23	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 100.46%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.694	85	206587	26.19	ug/L	98
3) Chloromethane	2.913	50	221696	24.94	ug/L	96
4) Vinyl Chloride	3.059	62	222418	24.66	ug/L	99
5) 1,3-Butadiene	3.035	54	63076	16.95	ug/L	98
6) Bromomethane	3.467	94	136019	25.60	ug/L	92
7) Chloroethane	3.631	64	110744	26.62	ug/L	95
8) Trichlorofluoromethane	3.850	101	308170m	25.60	ug/L	
9) Ethyl Ether	4.124	59	118069	22.19	ug/L	93
10) 1,2-Dichlorotrifluoroe...	4.367	67	222699	26.81	ug/L	95
11) 1,1-Dichloroethene	4.398	61	273263	26.34	ug/L	98
12) Freon 113	4.471	101	169047	23.33	ug/L	96
13) Carbon Disulfide	4.477	76	520433	21.68	ug/L	98
14) Iodomethane	4.592	142	261049	22.16	ug/L	98
15) Allyl chloride	4.927	41	157980	17.75	ug/L	94
16) Methylene Chloride	5.049	49	212743	22.93	ug/L	97
17) Acetone	5.073	58	47621	114.28	ug/L	92
18) Methyl acetate	5.195	74	88777	123.04	ug/L	94
19) trans-1,2-Dichloroethene	5.231	61	263585	28.29	ug/L	98
20) Hexane	5.304	56	153120	24.69	ug/L	96
21) Methyl Tert Butyl Ether	5.335	73	574402	31.73	ug/L	97
22) Acetonitrile	5.596	40	53863	195.88	ug/L	92
23) Di-isopropyl ether	5.718	45	470482	23.22	ug/L	99
24) Chloroprene	5.876	53	208696	21.77	ug/L	97
25) 1,1-Dichloroethane	5.900	63	324288	26.11	ug/L	99
26) Acrylonitrile	5.931	53	181923	104.70	ug/L	93
27) ETBE	6.113	59	465591	22.51	ug/L	98
28) Vinyl acetate	6.113	43	1088324	103.30	ug/L	100
29) cis-1,2-Dichloroethene	6.478	96	188685	23.57	ug/L	99
30) 2,2-Dichloropropane	6.606	77	264045	25.88	ug/L	99
31) Bromochloromethane	6.685	128	81363	22.68	ug/L	98
32) Cyclohexane	6.734	56	278139	24.14	ug/L	96
33) Chloroform	6.740	83	335471	24.95	ug/L	98
34) Ethyl acetate	6.807	43	421257	111.22	ug/L	98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\052616\
Data File : J0976822.D
Acq On : 26 May 2016 12:54 pm
Operator : DARSHNAP
Sample : fa34224-1ms ma Inst : MSVOA6
Misc : MS34002,VJ5316,,,,,
ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 26 13:48:36 2016
Quant Method : C:\msdchem\2\methods\MSJ052316a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed May 25 09:12:25 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
35) Tetrahydrofuran	6.929	42	27082	24.11 ug/L	90
37) Carbon Tetrachloride	6.935	117	258952m	25.52 ug/L	
38) 1,1,1-Trichloroethane	6.995	97	292149	24.35 ug/L	97
39) 2-Butanone	7.026	43	188104	113.91 ug/L	97
40) 1,1-Dichloropropene	7.105	75	235490	25.39 ug/L	98
41) tert-Butyl Formate	7.190	59	812348	165.03 ug/L	97
42) Propionitrile	7.330	54	141874	231.45 ug/L #	72
43) Methacrylonitrile	7.360	41	541893	212.99 ug/L	98
44) Benzene	7.360	78	752384	25.84 ug/L	96
45) TAME	7.433	73	422542	22.38 ug/L	97
47) 1,2-Dichloroethane	7.549	62	221467	24.81 ug/L	97
48) Trichloroethene	7.938	95	194841	26.06 ug/L	96
49) Methylcyclohexane	7.957	83	305152	23.79 ug/L	98
50) Dibromomethane	8.358	93	97387	25.11 ug/L	96
51) 1,2-Dichloropropane	8.449	63	172830	23.94 ug/L	98
52) Bromodichloromethane	8.498	83	218453	23.70 ug/L	93
53) Methyl methacrylate	8.595	41	82298	23.26 ug/L	95
55) cis-1,3-Dichloropropene	9.113	75	237275	22.91 ug/L	98
58) Toluene	9.356	91	782314	24.81 ug/L	98
59) 2-Nitropropane	9.557	41	120790	118.44 ug/L	97
60) 4-Methyl-2-pentanone	9.672	43	498138	129.23 ug/L	99
61) trans-1,3-Dichloropropene	9.739	75	221112	25.12 ug/L	96
62) Tetrachloroethene	9.757	166	198801	25.02 ug/L	99
63) Ethyl methacrylate	9.843	69	134956	19.28 ug/L	99
64) 1,1,2-Trichloroethane	9.903	83	124740	25.34 ug/L	95
65) Dibromochloromethane	10.104	129	149408	23.26 ug/L	96
66) 1,3-Dichloropropane	10.183	76	234265	23.47 ug/L	98
67) 1,2-Dibromoethane	10.360	107	134685	24.42 ug/L	100
68) 2-hexanone	10.487	43	349247	123.92 ug/L	97
69) 1-Chlorohexane	10.798	91	234188	23.21 ug/L	98
70) Ethylbenzene	10.859	91	905372	24.50 ug/L	98
71) Chlorobenzene	10.865	112	521257	24.34 ug/L	97
72) 1,1,1,2-Tetrachloroethane	10.913	131	177051	25.26 ug/L	99
73) m,p-Xylene	10.998	91	1402814	49.86 ug/L	98
74) o-Xylene	11.436	91	700557	26.41 ug/L	98
75) Styrene	11.485	104	475690	21.01 ug/L	99
76) Bromoform	11.546	173	84568	20.23 ug/L	99
77) Isopropylbenzene	11.741	105	858131	27.52 ug/L	99
80) cis-1,4-Dichloro-2-butene	12.087	53	16491	10.34 ug/L	91
81) n-Propylbenzene	12.160	91	1037737	26.36 ug/L	99
82) Bromobenzene	12.185	156	223611	23.88 ug/L	100
83) 1,1,2,2-Tetrachloroethane	12.221	83	181191	25.35 ug/L	98
84) 1,3,5-Trimethylbenzene	12.343	105	737682	25.53 ug/L	97
85) 2-Chlorotoluene	12.349	91	713810	24.90 ug/L	99
86) trans-1,4-Dichloro-2-B...	12.398	53	19045	12.63 ug/L #	72
87) 1,2,3-Trichloropropane	12.386	110	44813	24.46 ug/L	98
88) Cyclohexanone	12.446	55	16806	84.54 ug/L	91
89) 4-Chlorotoluene	12.519	91	660650	25.62 ug/L	100
90) a-Methyl Styrene	12.751	118	7142	0.43 ug/L #	1
91) tert-Butylbenzene	12.684	91	416897	24.97 ug/L	98

SGS ACCUTEST FA34224

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\052616\
Data File : J0976822.D
Acq On : 26 May 2016 12:54 pm
Operator : DARSHNAP
Sample : fa34224-1ms ma Inst : MSVOA6
Misc : MS34002,VJ5316,,,,,
ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 26 13:48:36 2016
Quant Method : C:\msdchem\2\methods\MSJ052316a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed May 25 09:12:25 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
92) 1,2,4-Trimethylbenzene	12.751	105	746994	25.82	ug/L	97
93) Pentachloroethane	12.738	167	128874	22.87	ug/L	98
94) sec-Butylbenzene	12.866	105	939273	26.97	ug/L	99
95) 4-Isopropyltoluene	13.000	119	762098	25.08	ug/L	98
96) 1,3-Dichlorobenzene	13.134	146	402677	24.88	ug/L	99
97) 1,4-Dichlorobenzene	13.219	146	402477	23.63	ug/L	99
98) n-Butylbenzene	13.432	92	415028	25.06	ug/L	98
99) Benzyl Chloride	13.444	126	58673	23.69	ug/L #	92
100) 1,2-Dichlorobenzene	13.645	146	367474	24.34	ug/L	98
101) 1,2-Dibromo-3-Chloropr...	14.381	75	25380	25.66	ug/L	91
102) Hexachlorobutadiene	14.928	225	133280	19.83	ug/L	98
103) 1,2,4-Trichlorobenzene	14.971	180	244773	24.38	ug/L	96
104) Naphthalene	15.257	128	454124	30.16	ug/L	99
105) 1,2,3-Trichlorobenzene	15.427	180	207539	23.98	ug/L	98
107) Ethanol	4.294	45	22514	423.93	ug/L	95
108) acrolein	4.763	56	88497	110.98	ug/L	98
109) Tert Butyl Alcohol	5.389	59	118678	243.10	ug/L	86
110) tert Amyl alcohol	7.573	59	78118	223.56	ug/L	99
111) Isobutyl alcohol	7.458	42	61316	396.85	ug/L #	84
112) 1,4-Dioxane	8.675	88	31279	568.61	ug/L	90
113) 3,3-Dimethyl-1-butanol	10.433	57	593544	1399.96	ug/L	99

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

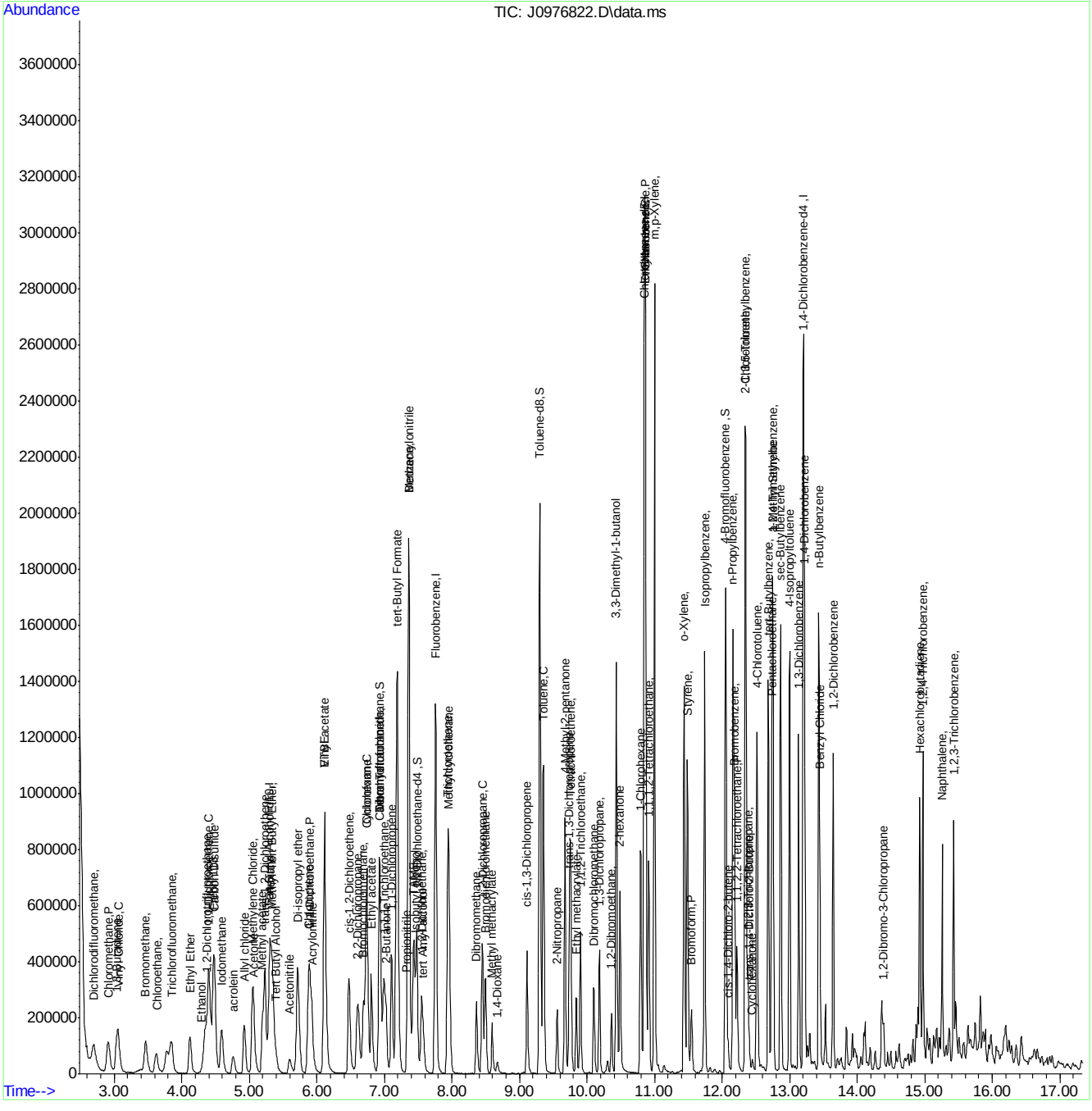
7.4.1

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\052616\
Data File : J0976822.D
Acq On : 26 May 2016 12:54 pm
Operator : DARSHNAP
Sample : fa34224-1ms ma Inst : MSVOA6
Misc : MS34002,VJ5316,,,,,
ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 26 13:48:36 2016
Quant Method : C:\msdchem\2\methods\MSJ052316a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed May 25 09:12:25 2016
Response via : Initial Calibration



MSJ052316a.M Thu May 26 13:55:36 2016 Page: 4

Manual Integration Approval Summary

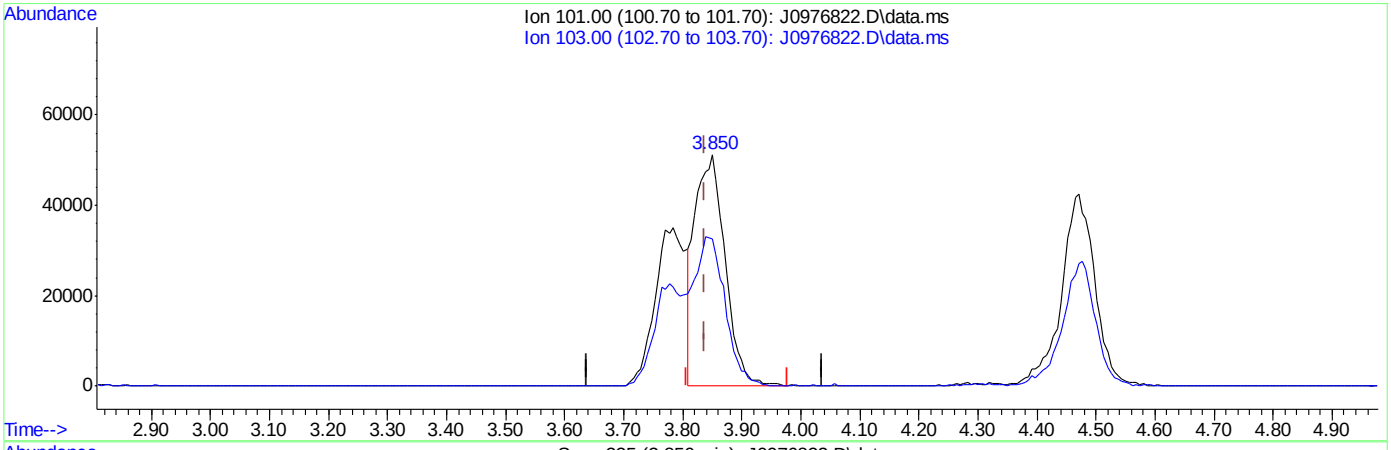
Sample Number:	FA34224-1MS	**Method:**	SW846 8260C
Lab FileID:	J0976822.D	**Analyst approved:**	05/26/16 14:03 Darshna Patel
Injection Time:	05/26/16 12:54	**Supervisor approved:**	05/26/16 17:43 Juan Garcia

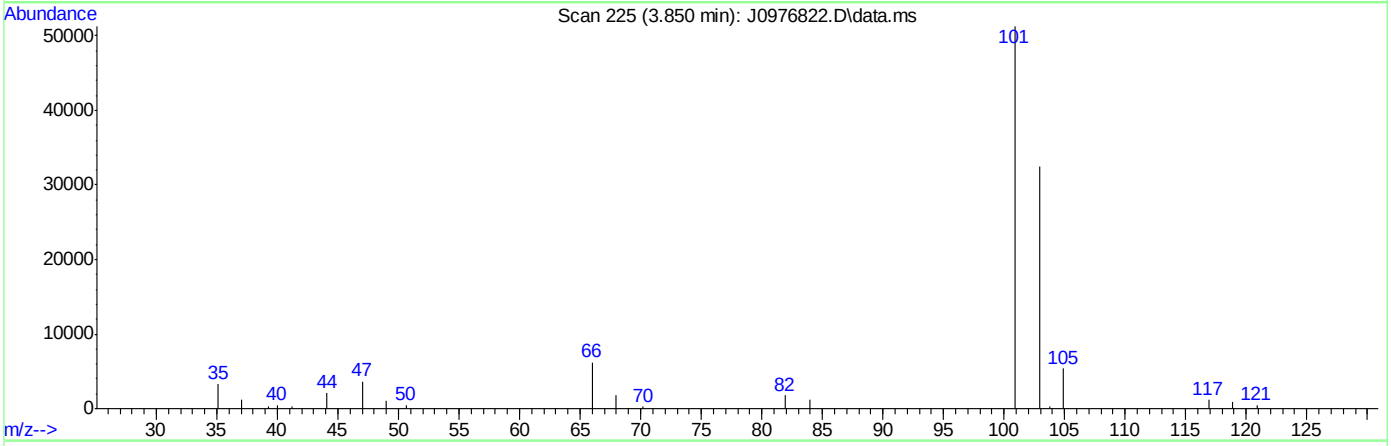
Parameter	CAS	Sig#	R.T. (min.)	Reason
Trichlorofluoromethane	75-69-4		3.85	Split peak
Carbon Tetrachloride	56-23-5		6.93	Overlapping peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\052616\
Data File : J0976822.D
Acq On : 26 May 2016 12:54 pm
Operator : DARSHNAP
Sample : fa34224-1ms ma Inst : MSVOA6
Misc : MS34002,VJ5316,,,,,
ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 26 13:38:57 2016
Quant Method : C:\msdchem\2\methods\MSJ052316a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed May 25 09:12:25 2016
Response via : Initial Calibration





TIC: J0976822.D\data.ms

(8) Trichlorofluoromethane ( )

3.850min (+0.012) 15.17ug/L

response 182605

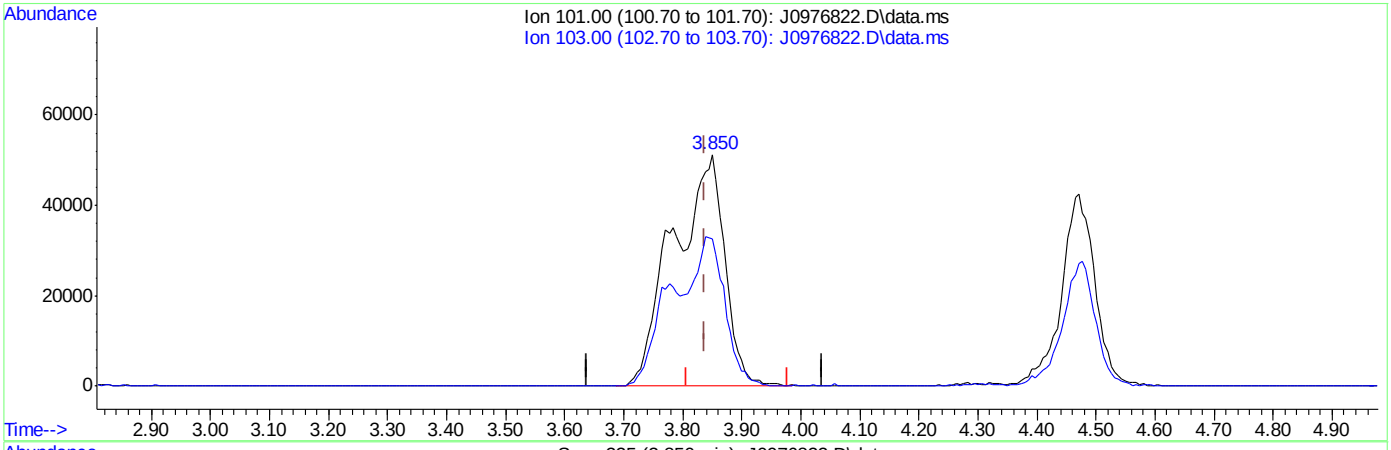
Ion	Exp%	Act%
101.00	100	100
103.00	62.30	63.39
0.00	0.00	0.00
0.00	0.00	0.00

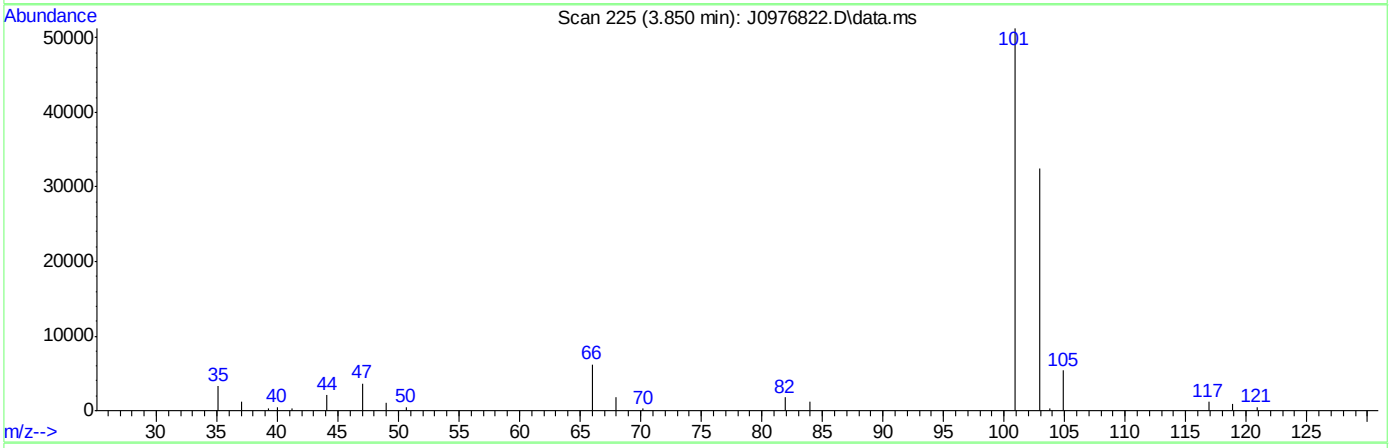
SGS ACCUTEST FA34224

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\052616\
Data File : J0976822.D
Acq On : 26 May 2016 12:54 pm
Operator : DARSHNAP
Sample : fa34224-1ms ma Inst : MSVOA6
Misc : MS34002,VJ5316,,,,,
ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 26 13:38:57 2016
Quant Method : C:\msdchem\2\methods\MSJ052316a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed May 25 09:12:25 2016
Response via : Initial Calibration





TIC: J0976822.D\data.ms

(8) Trichlorofluoromethane ( )

3.850min (+0.012) 25.60ug/L m

response 308170

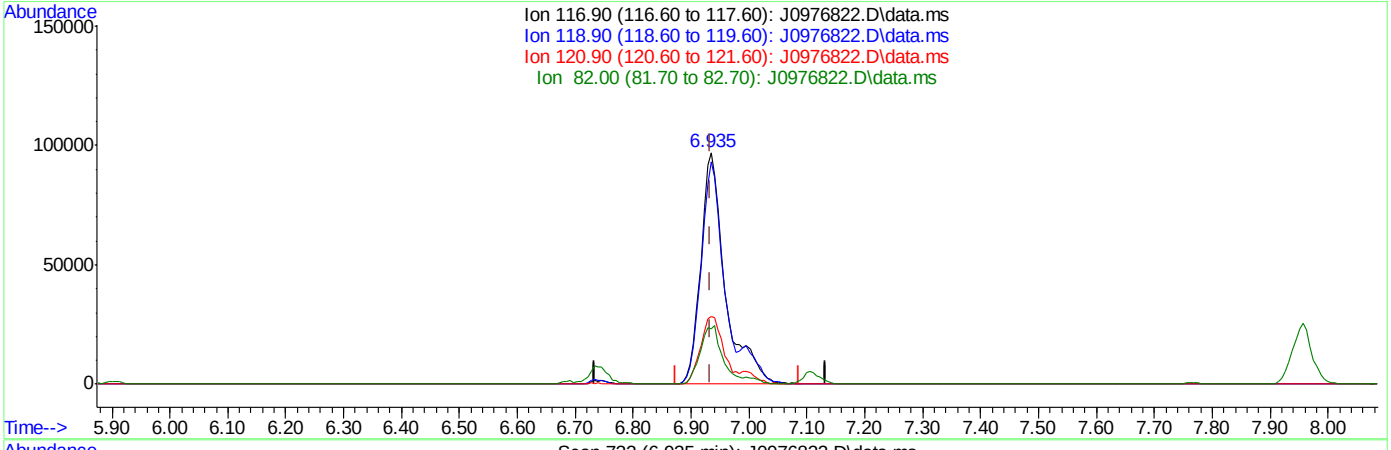
Ion	Exp%	Act%
101.00	100	100
103.00	62.30	63.39
0.00	0.00	0.00
0.00	0.00	0.00

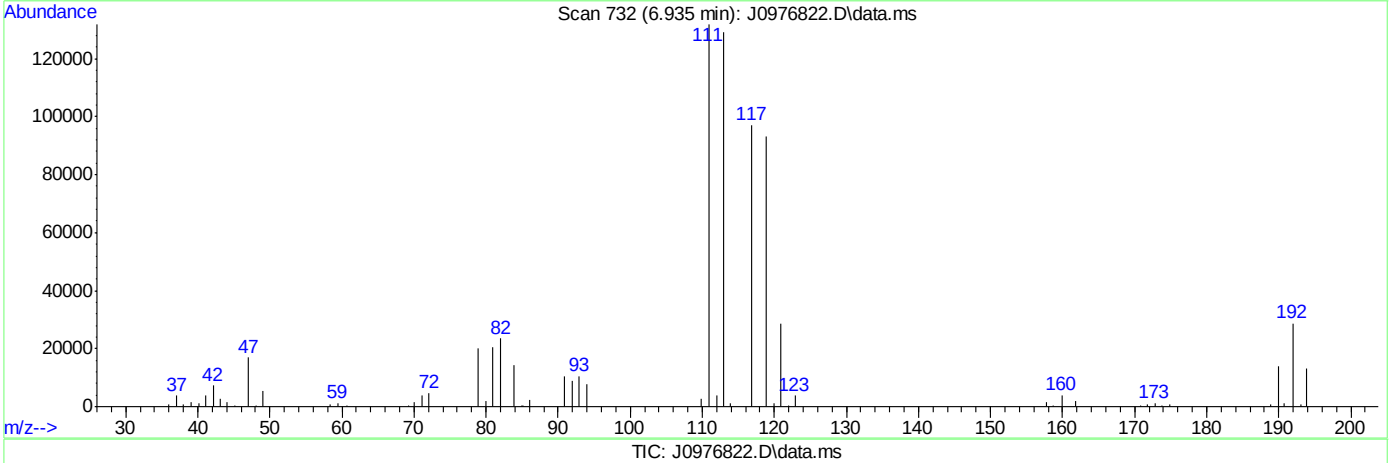
SGS ACCUTEST FA34224

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\052616\
Data File : J0976822.D
Acq On : 26 May 2016 12:54 pm
Operator : DARSHNAP
Sample : fa34224-1ms ma Inst : MSVOA6
Misc : MS34002,VJ5316,,,,,
ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 26 13:38:57 2016
Quant Method : C:\msdchem\2\methods\MSJ052316a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed May 25 09:12:25 2016
Response via : Initial Calibration





(37) Carbon Tetrachloride ( )

6.935min (+0.001) 28.55ug/L

response 289672

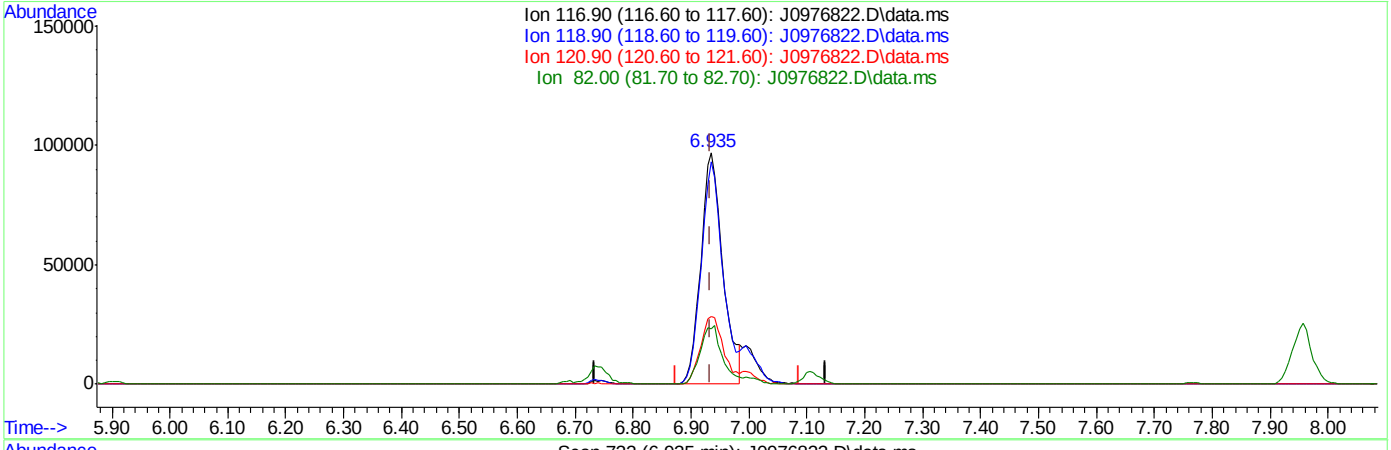
Ion	Exp%	Act%
116.90	100	100
118.90	99.10	95.99
120.90	32.20	29.35
82.00	25.20	24.12

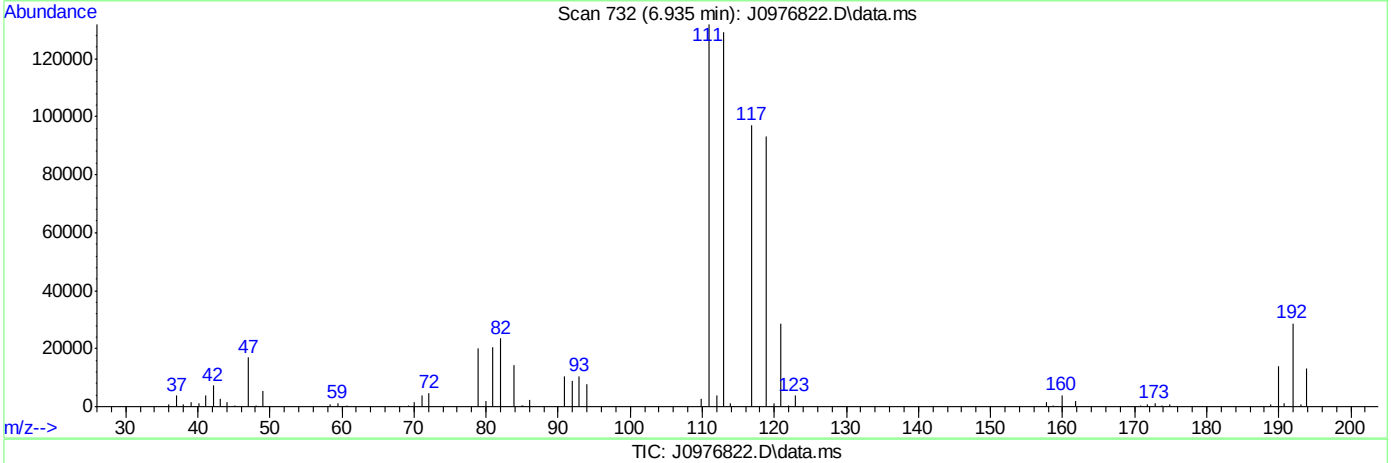
SGS ACCUTEST FA34224

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\052616\
Data File : J0976822.D
Acq On : 26 May 2016 12:54 pm
Operator : DARSHNAP
Sample : fa34224-1ms ma Inst : MSVOA6
Misc : MS34002,VJ5316,,,,,
ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 26 13:38:57 2016
Quant Method : C:\msdchem\2\methods\MSJ052316a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed May 25 09:12:25 2016
Response via : Initial Calibration





(37) Carbon Tetrachloride ( )

6.935min (+0.001) 25.52ug/L m

response 258952

Ion	Exp%	Act%
116.90	100	100
118.90	99.10	95.99
120.90	32.20	29.35
82.00	25.20	24.12

SGS ACCUTEST FA34224

Manual Integrations APPROVED (compounds with "m" flag)
Juan Garcia
05/26/16 17:43

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\052616\
Data File : J0976823.D
Acq On : 26 May 2016 1:17 pm
Operator : DARSHNAP
Sample : fa34224-1msd ma Inst : MSVOA6
Misc : MS34002,VJ5316,,,,,
ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 26 13:49:17 2016
Quant Method : C:\msdchem\2\methods\MSJ052316a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed May 25 09:12:25 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.756	96	1230167	50.00	ug/L	0.00
56) Chlorobenzene-d5	10.846	117	1019026	50.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	13.201	152	584094	50.00	ug/L	0.00
106) Tert Butyl Alcohol-d10	5.298	65	87895	250.00	ug/L	-0.01
System Monitoring Compounds						
36) Dibromofluoromethane	6.928	113	312512	50.18	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 100.36%			
46) 1,2-Dichloroethane-d4	7.476	65	342565	48.79	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 97.58%			
57) Toluene-d8	9.301	98	1261869	48.97	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 97.94%			
79) 4-Bromofluorobenzene	12.051	95	538573	50.03	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 100.06%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.694	85	210228	26.27	ug/L	94
3) Chloromethane	2.907	50	234541	26.01	ug/L	99
4) Vinyl Chloride	3.065	62	227267	24.84	ug/L	97
5) 1,3-Butadiene	3.035	54	76003	20.13	ug/L	95
6) Bromomethane	3.467	94	139464	25.89	ug/L	91
7) Chloroethane	3.625	64	110255	26.00	ug/L	94
8) Trichlorofluoromethane	3.844	101	303126m	24.82	ug/L	
9) Ethyl Ether	4.124	59	124859	23.12	ug/L	98
10) 1,2-Dichlorotrifluoroe...	4.361	67	232284	27.56	ug/L	99
11) 1,1-Dichloroethene	4.404	61	274456	26.07	ug/L	98
12) Freon 113	4.477	101	173063	23.53	ug/L	97
13) Carbon Disulfide	4.483	76	527176	21.64	ug/L	98
14) Iodomethane	4.592	142	278284	23.28	ug/L	98
15) Allyl chloride	4.927	41	153030	16.95	ug/L	96
16) Methylene Chloride	5.049	49	221119	23.50	ug/L	98
17) Acetone	5.067	58	51519	121.97	ug/L	93
18) Methyl acetate	5.195	74	92200	125.93	ug/L	96
19) trans-1,2-Dichloroethene	5.237	61	270503	28.62	ug/L	99
20) Hexane	5.298	56	144011	22.88	ug/L	96
21) Methyl Tert Butyl Ether	5.341	73	626586	34.12	ug/L	92
22) Acetonitrile	5.596	40	66251	238.30	ug/L	95
23) Di-isopropyl ether	5.718	45	487398	23.70	ug/L	99
24) Chloroprene	5.876	53	197854	20.39	ug/L	98
25) 1,1-Dichloroethane	5.900	63	329702	26.16	ug/L	99
26) Acrylonitrile	5.931	53	190384	108.05	ug/L	95
27) ETBE	6.119	59	497782	23.72	ug/L	99
28) Vinyl acetate	6.107	43	1126923	105.41	ug/L	100
29) cis-1,2-Dichloroethene	6.478	96	202758	24.96	ug/L	98
30) 2,2-Dichloropropane	6.612	77	275433	26.61	ug/L	99
31) Bromochloromethane	6.691	128	83699	23.00	ug/L	96
32) Cyclohexane	6.740	56	277794	23.76	ug/L	94
33) Chloroform	6.740	83	341199	25.00	ug/L	97
34) Ethyl acetate	6.807	43	452214	117.67	ug/L	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\052616\
Data File : J0976823.D
Acq On : 26 May 2016 1:17 pm
Operator : DARSHNAP
Sample : fa34224-1msd ma Inst : MSVOA6
Misc : MS34002,VJ5316,,,,,
ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 26 13:49:17 2016
Quant Method : C:\msdchem\2\methods\MSJ052316a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed May 25 09:12:25 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
35) Tetrahydrofuran	6.922	42	25853	22.67	ug/L		96
37) Carbon Tetrachloride	6.934	117	239944m	23.31	ug/L		
38) 1,1,1-Trichloroethane	6.995	97	296752	24.37	ug/L		97
39) 2-Butanone	7.026	43	196531	117.28	ug/L		98
40) 1,1-Dichloropropene	7.105	75	235709	25.04	ug/L		97
41) tert-Butyl Formate	7.190	59	785006	157.02	ug/L		98
42) Propionitrile	7.336	54	141124	226.89	ug/L		91
43) Methacrylonitrile	7.360	41	557205	215.96	ug/L		99
44) Benzene	7.360	78	755170	25.56	ug/L		95
45) TAME	7.433	73	454314	23.72	ug/L		98
47) 1,2-Dichloroethane	7.549	62	224066	24.74	ug/L		97
48) Trichloroethene	7.932	95	199144	26.25	ug/L		94
49) Methylcyclohexane	7.956	83	304910	23.42	ug/L		99
50) Dibromomethane	8.364	93	99020	25.16	ug/L		95
51) 1,2-Dichloropropane	8.449	63	178104	24.31	ug/L		97
52) Bromodichloromethane	8.492	83	214348	22.92	ug/L		95
53) Methyl methacrylate	8.595	41	81880	22.81	ug/L		96
55) cis-1,3-Dichloropropene	9.112	75	236995	22.55	ug/L		99
58) Toluene	9.356	91	785419	24.22	ug/L		100
59) 2-Nitropropane	9.556	41	125969	120.20	ug/L		95
60) 4-Methyl-2-pentanone	9.672	43	525660	132.71	ug/L		99
61) trans-1,3-Dichloropropene	9.739	75	217309	24.02	ug/L		94
62) Tetrachloroethene	9.757	166	196507	24.07	ug/L		97
63) Ethyl methacrylate	9.842	69	143000	19.88	ug/L		93
64) 1,1,2-Trichloroethane	9.903	83	124984	24.71	ug/L		94
65) Dibromochloromethane	10.104	129	143554	21.74	ug/L		99
66) 1,3-Dichloropropane	10.183	76	240851	23.48	ug/L		97
67) 1,2-Dibromoethane	10.360	107	142884	25.21	ug/L		97
68) 2-hexanone	10.487	43	371177	128.23	ug/L		99
69) 1-Chlorohexane	10.798	91	231610	22.34	ug/L		98
70) Ethylbenzene	10.858	91	917222	24.13	ug/L		98
71) Chlorobenzene	10.864	112	533229	24.23	ug/L		99
72) 1,1,1,2-Tetrachloroethane	10.913	131	179705	24.95	ug/L		97
73) m,p-Xylene	10.998	91	1423042	49.17	ug/L		98
74) o-Xylene	11.436	91	722619	26.51	ug/L		99
75) Styrene	11.485	104	478648	20.57	ug/L		99
76) Bromoform	11.546	173	84590	19.70	ug/L		96
77) Isopropylbenzene	11.740	105	874688	27.30	ug/L		99
80) cis-1,4-Dichloro-2-butene	12.087	53	10553	6.33	ug/L	#	84
81) n-Propylbenzene	12.160	91	1051650	25.48	ug/L		99
82) Bromobenzene	12.185	156	231900	23.63	ug/L		97
83) 1,1,2,2-Tetrachloroethane	12.221	83	191492	25.56	ug/L		98
84) 1,3,5-Trimethylbenzene	12.343	105	753894	24.89	ug/L		99
85) 2-Chlorotoluene	12.349	91	729934	24.30	ug/L		100
86) trans-1,4-Dichloro-2-B...	12.404	53	11006	6.98	ug/L	#	82
87) 1,2,3-Trichloropropane	12.379	110	50861	26.48	ug/L		96
88) Cyclohexanone	12.446	55	16741	80.34	ug/L		91
89) 4-Chlorotoluene	12.519	91	678188	25.09	ug/L		99
90) a-Methyl Styrene	12.750	118	6975	0.41	ug/L	#	1
91) tert-Butylbenzene	12.683	91	419711	23.98	ug/L		100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\052616\
Data File : J0976823.D
Acq On : 26 May 2016 1:17 pm
Operator : DARSHNAP
Sample : fa34224-1msd ma Inst : MSVOA6
Misc : MS34002,VJ5316,,,,,
ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 26 13:49:17 2016
Quant Method : C:\msdchem\2\methods\MSJ052316a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed May 25 09:12:25 2016
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
92)	1,2,4-Trimethylbenzene	12.750	105	764248	25.20	ug/L		98
93)	Pentachloroethane	12.738	167	130272	22.05	ug/L		97
94)	sec-Butylbenzene	12.866	105	949137	26.00	ug/L		98
95)	4-Isopropyltoluene	13.000	119	773153	24.27	ug/L		99
96)	1,3-Dichlorobenzene	13.134	146	416682	24.56	ug/L		99
97)	1,4-Dichlorobenzene	13.219	146	416092	23.30	ug/L		98
98)	n-Butylbenzene	13.432	92	418980	24.14	ug/L		97
99)	Benzyl Chloride	13.444	126	59675	23.01	ug/L	#	92
100)	1,2-Dichlorobenzene	13.645	146	386011	24.39	ug/L		99
101)	1,2-Dibromo-3-Chloropr...	14.381	75	28248	27.24	ug/L		81
102)	Hexachlorobutadiene	14.928	225	139933	19.86	ug/L		97
103)	1,2,4-Trichlorobenzene	14.971	180	263532	25.04	ug/L		98
104)	Naphthalene	15.257	128	511845	32.38	ug/L		99
105)	1,2,3-Trichlorobenzene	15.427	180	236178	26.01	ug/L		99
107)	Ethanol	4.282	45	23634m	479.54	ug/L		
108)	acrolein	4.763	56	90918	122.86	ug/L		100
109)	Tert Butyl Alcohol	5.383	59	123536	273.95	ug/L		99
110)	tert Amyl alcohol	7.573	59	82167	253.39	ug/L		90
111)	Isobutyl alcohol	7.458	42	61144	426.43	ug/L	#	85
112)	1,4-Dioxane	8.668	88	31688	622.02	ug/L		95
113)	3,3-Dimethyl-1-butanol	10.432	57	610709	1557.98	ug/L		98

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

7.4.2

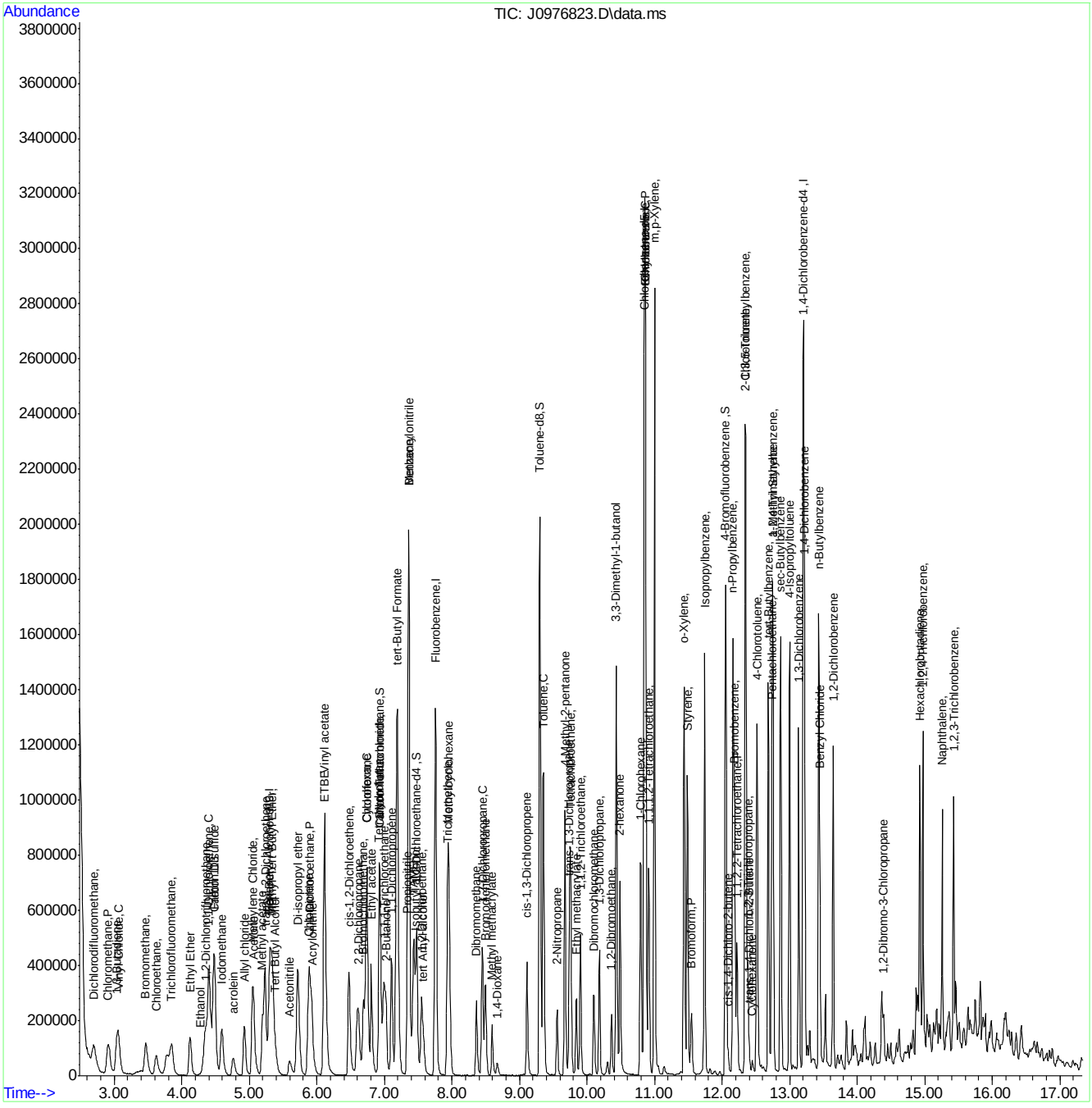
7

SGS ACCUTEST FA34224

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\052616\
Data File : J0976823.D
Acq On : 26 May 2016 1:17 pm
Operator : DARSHNAP
Sample : fa34224-1msd ma Inst : MSVOA6
Misc : MS34002,VJ5316,,,,,
ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 26 13:49:17 2016
Quant Method : C:\msdchem\2\methods\MSJ052316a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed May 25 09:12:25 2016
Response via : Initial Calibration


Abundance
TIC: J0976823.D\data.ms
Time-->
Toluene-d8,S
Fluorobenzene,I
1,4-Dichlorobenzene-d4 ,I
m,p-Xylene,
o-Xylene,
Isopropylbenzene,
n-Propylbenzene,
4-Bromofluorobenzene ,S
n-Butylbenzene
1,2-Dichlorobenzene
Benzyl Chloride
Naphthalene,
1,2,3-Trichlorobenzene,
1,2-Dibromo-3-Chloropropane
Styrene,
Bromoform,P
1,3-Dichlorobenzene
1,4-Dichlorobenzene
4-Isopropyltoluene
4-Chlorotoluene,
tert-Butyl Formate
3,3-Dimethyl-1-butanol
cis-1,3-Dichloropropene
Toluene,C
2-Nitropropane
2-hexanone
1,2-Dibromoethane,
1,1,2-Tetrachloroethane,
1-Chlorohexane
Dichlorodifluoromethane,
Chloromethane,P
Vinyl Chloride,C
Bromomethane,
Chloroethane,
Trichlorofluoromethane,
Ethyl Ether
Ethanol
Iodomethane
acrolein
Allyl chloride
Methyl acetate
Acetonitrile
Di-isopropyl ether
Acrylonitrile
ETBE
Vinyl acetate
cis-1,2-Dichloroethene,
Ethyl acetate
2-Butanone
Methyl Methacrylate
1,4-Dioxane
Dibromomethane
Methyl Acrylate
Tetrahydrofuran
Trichloroethene
Methylcyclohexane
Dibromochloromethane
1,2-Dichloroethane,
Ethyl methacrylate
4-Methyl-2-pentanone
Toluene,I
Chlorobenzene
Ethylbenzene
Styrene,I
Bromobenzene,
Benzene,
Chloroform,P
Carbon Tetrachloride
Cyclohexane
Methyl Cyclohexane
Bromodichloromethane
Dibromomethane,
Chloroform,C
Carbon Tetrachloride,C
Methylene Chloride,P
Methylene Chloride,C
Methyl Iodide
Methyl Acetate
Methyl Ethyl Ketone
Methyl Tert Butyl Ether
Methyl Acrylate
Methyl Methacrylate
Methacrylonitrile
Propionitrile
Acrylonitrile
Butyronitrile
Isobutanol
Propanol
Ethanol
Methanol
Methyl Iodide
Methyl Methacrylate
Methyl Acrylate
Methyl Methacrylate
Methyl Methacrylate
Methyl Methac

Manual Integration Approval Summary

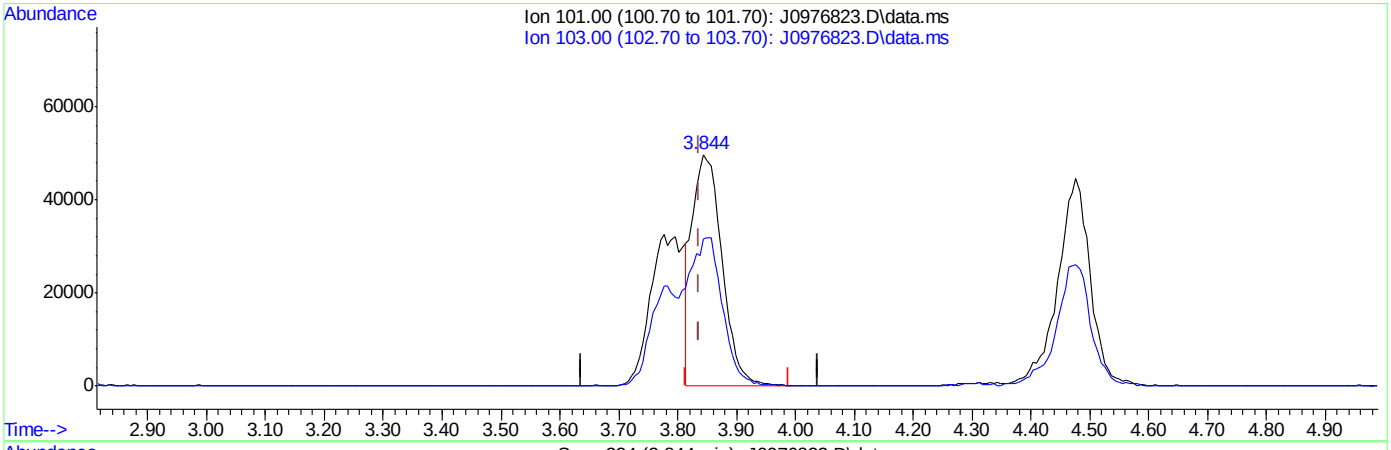
Sample Number:	FA34224-1MSD	**Method:**	SW846 8260C
Lab FileID:	J0976823.D	**Analyst approved:**	05/26/16 14:03 Darshna Patel
Injection Time:	05/26/16 13:17	**Supervisor approved:**	05/26/16 17:43 Juan Garcia

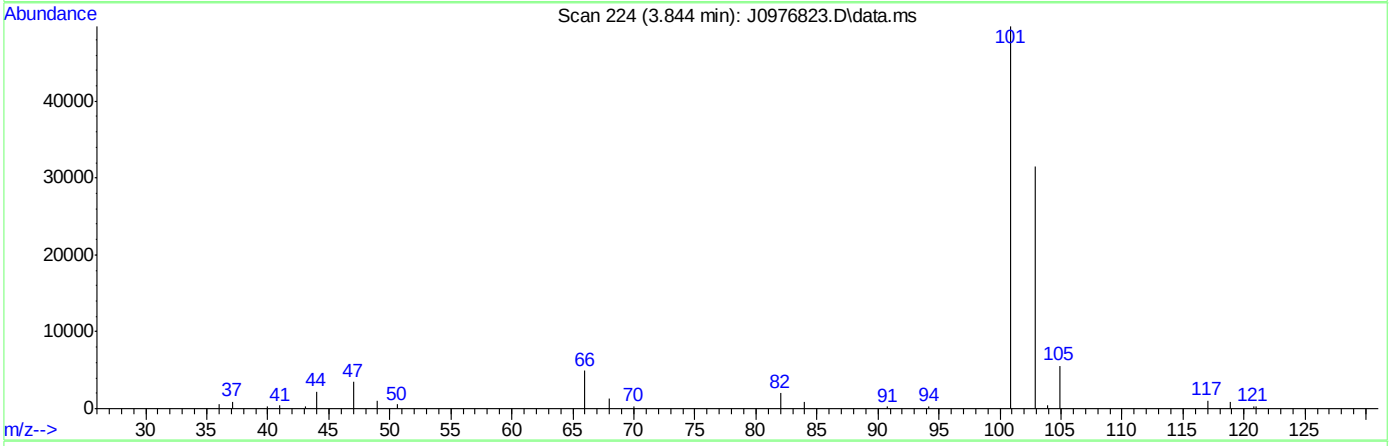
Parameter	CAS	Sig#	R.T. (min.)	Reason
Trichlorofluoromethane	75-69-4		3.84	Split peak
Ethyl Alcohol	64-17-5		4.28	Poor instrument integration
Carbon Tetrachloride	56-23-5		6.93	Overlapping peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\052616\
Data File : J0976823.D
Acq On : 26 May 2016 1:17 pm
Operator : DARSHNAP
Sample : fa34224-1msd ma Inst : MSVOA6
Misc : MS34002,VJ5316,,,,,
ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 26 13:39:00 2016
Quant Method : C:\msdchem\2\methods\MSJ052316a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed May 25 09:12:25 2016
Response via : Initial Calibration





TIC: J0976823.D\data.ms

(8) Trichlorofluoromethane ( )

3.844min (+0.006) 14.32ug/L

response 174883

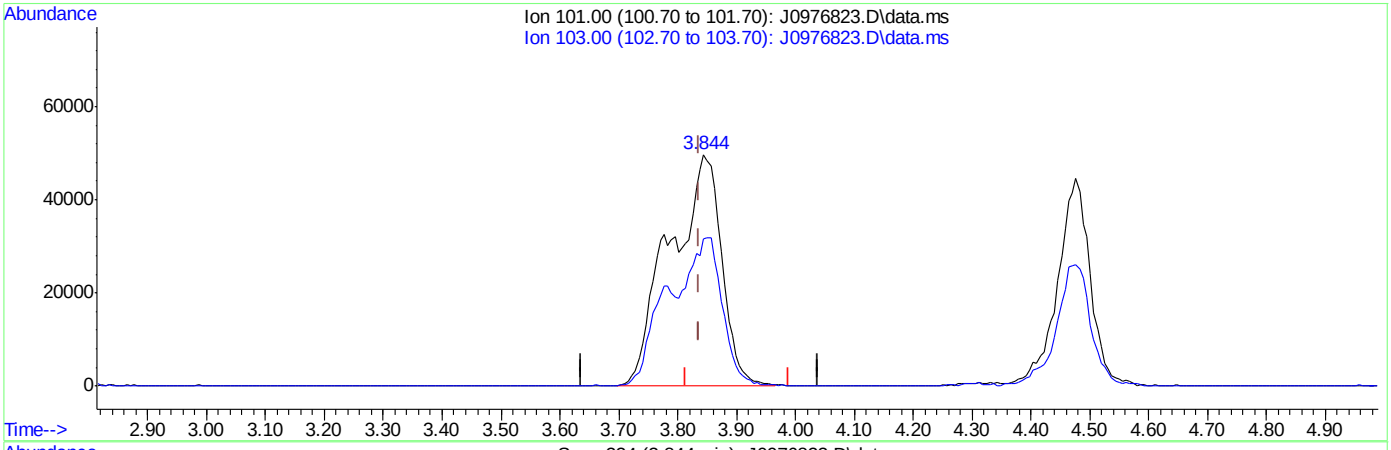
Ion	Exp%	Act%
101.00	100	100
103.00	62.30	63.37
0.00	0.00	0.00
0.00	0.00	0.00

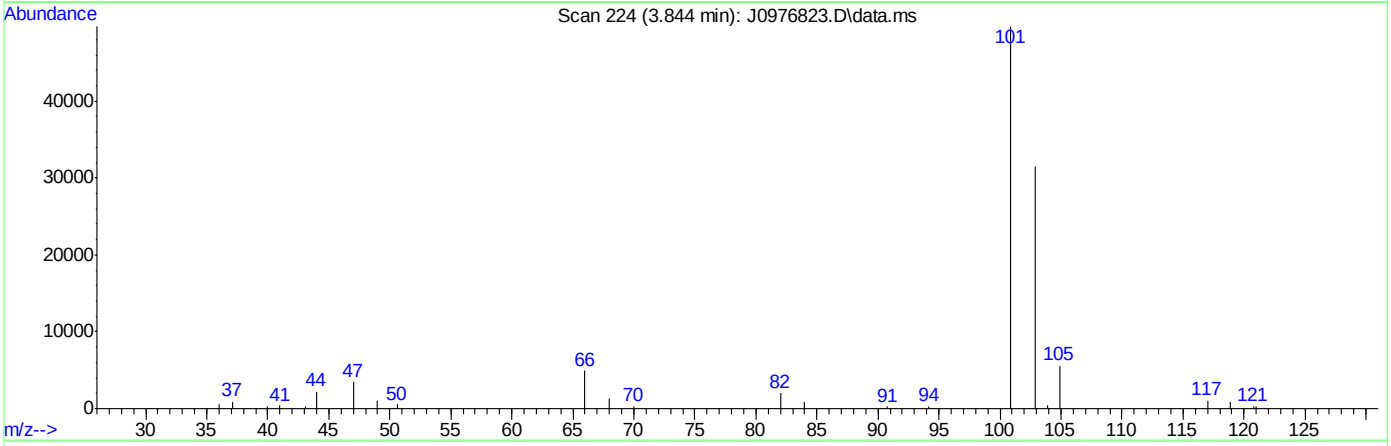
SGS ACCUTEST FA34224

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\052616\
Data File : J0976823.D
Acq On : 26 May 2016 1:17 pm
Operator : DARSHNAP
Sample : fa34224-1msd ma Inst : MSVOA6
Misc : MS34002,VJ5316,,,,,
ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 26 13:39:00 2016
Quant Method : C:\msdchem\2\methods\MSJ052316a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed May 25 09:12:25 2016
Response via : Initial Calibration





TIC: J0976823.D\data.ms

(8) Trichlorofluoromethane ( )

3.844min (+0.006) 24.82ug/L m

response 303126

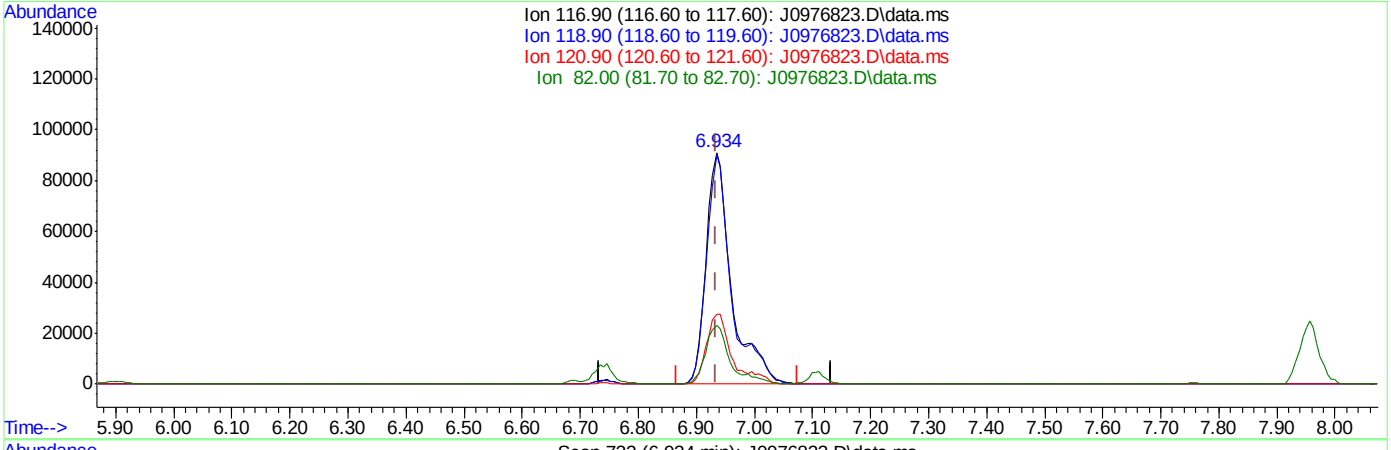
Ion	Exp%	Act%
101.00	100	100
103.00	62.30	63.37
0.00	0.00	0.00
0.00	0.00	0.00

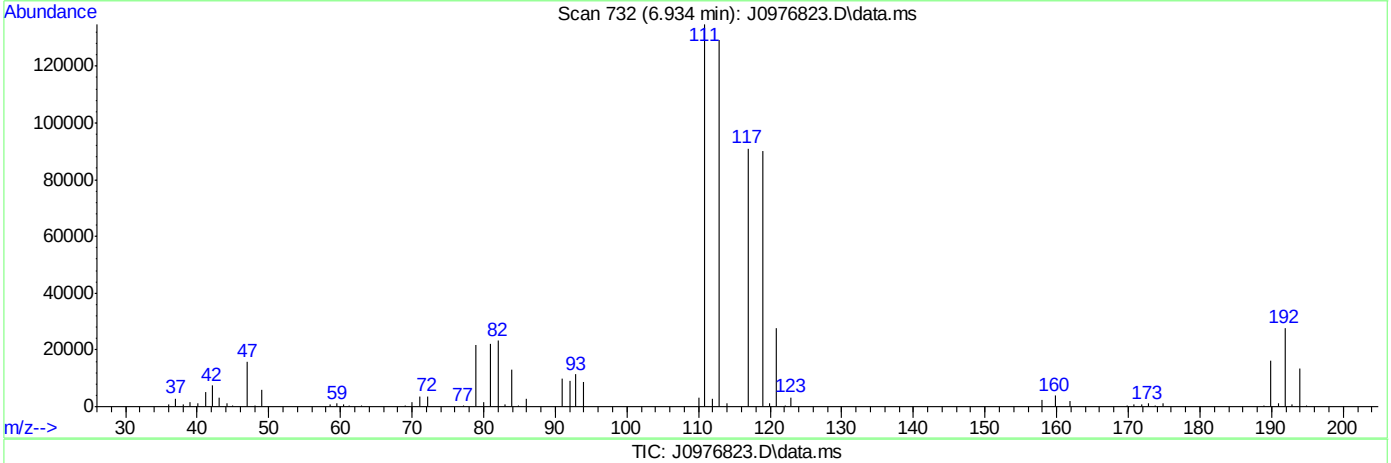
SGS ACCUTEST FA34224

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\052616\
Data File : J0976823.D
Acq On : 26 May 2016 1:17 pm
Operator : DARSHNAP
Sample : fa34224-1msd ma Inst : MSVOA6
Misc : MS34002,VJ5316,,,,,
ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 26 13:39:00 2016
Quant Method : C:\msdchem\2\methods\MSJ052316a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed May 25 09:12:25 2016
Response via : Initial Calibration





TIC: J0976823.D\data.ms

(37) Carbon Tetrachloride ( )

6.934min (+0.000) 27.03ug/L

response 278235

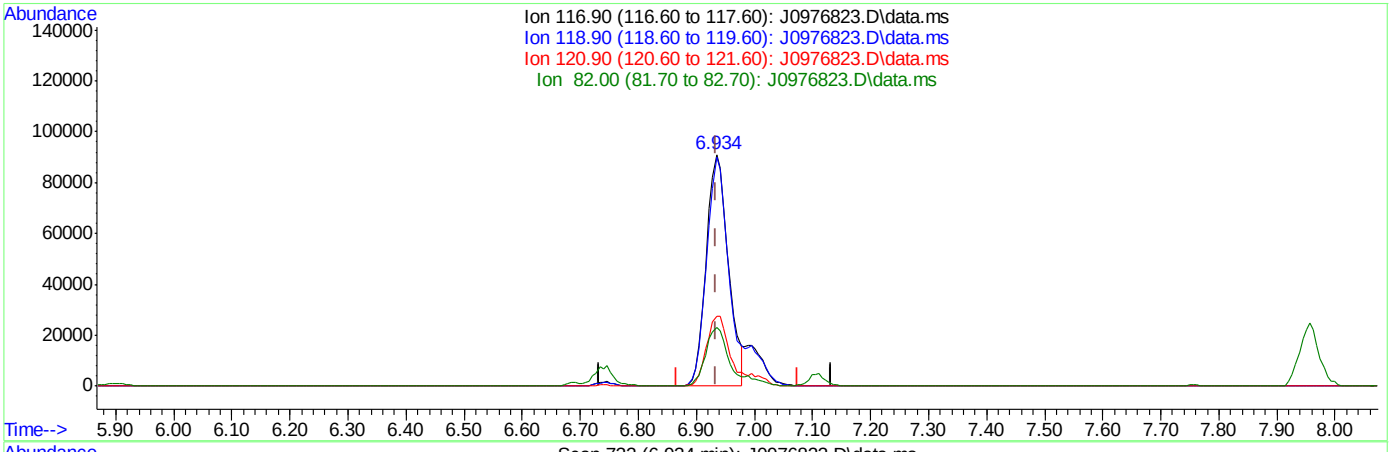
Ion	Exp%	Act%
116.90	100	100
118.90	99.10	98.79
120.90	32.20	30.33
82.00	25.20	25.41

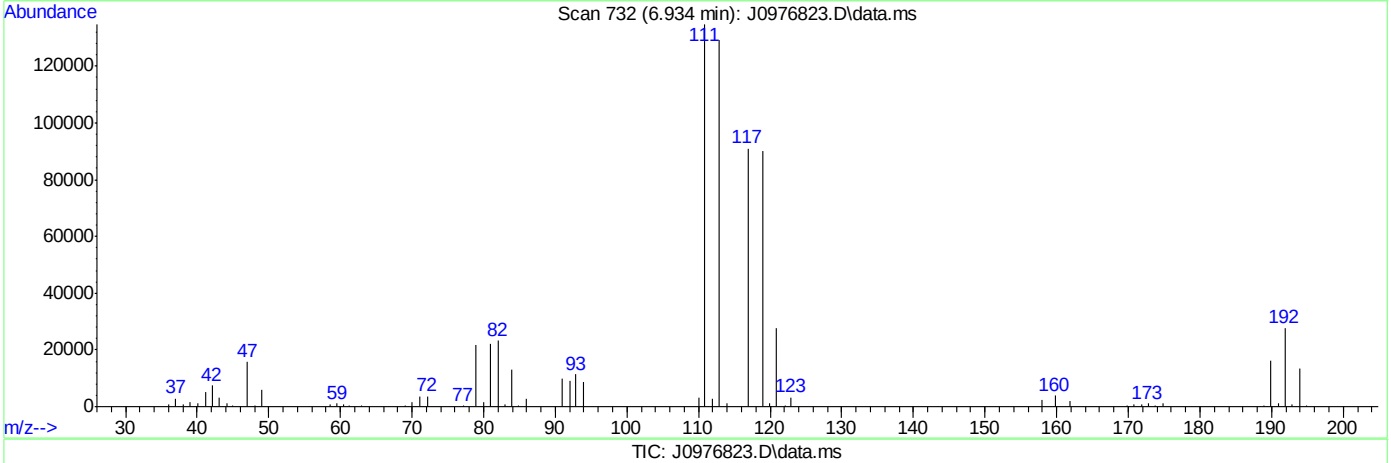
SGS ACCUTEST FA34224

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\052616\
Data File : J0976823.D
Acq On : 26 May 2016 1:17 pm
Operator : DARSHNAP
Sample : fa34224-1msd ma Inst : MSVOA6
Misc : MS34002,VJ5316,,,,,
ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 26 13:39:00 2016
Quant Method : C:\msdchem\2\methods\MSJ052316a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed May 25 09:12:25 2016
Response via : Initial Calibration





TIC: J0976823.D\data.ms

(37) Carbon Tetrachloride ( )

6.934min (+0.000) 23.31ug/L m

response 239944

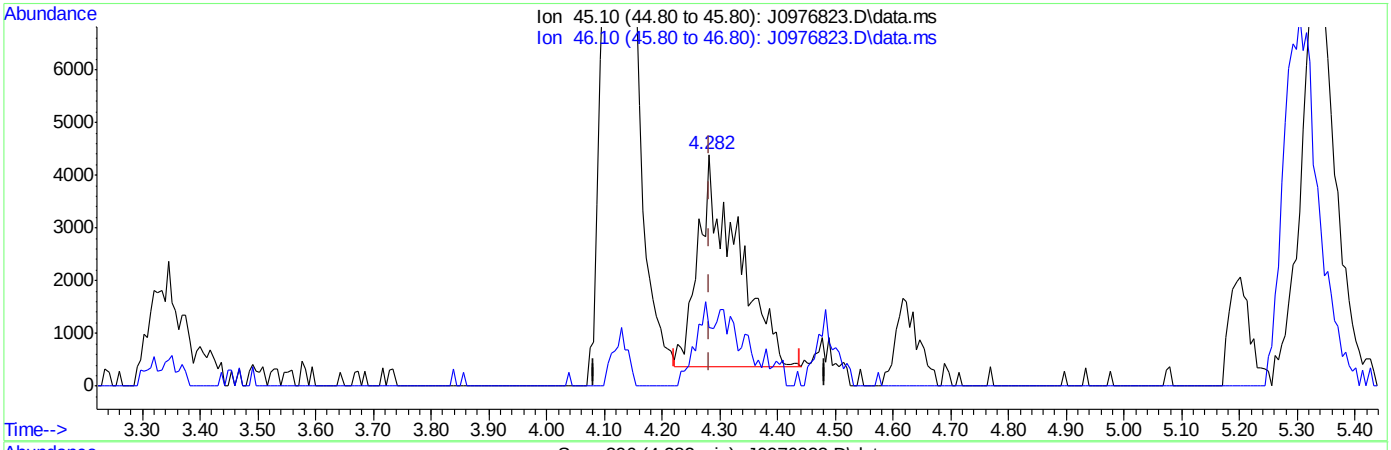
Ion	Exp%	Act%
116.90	100	100
118.90	99.10	98.79
120.90	32.20	30.33
82.00	25.20	25.41

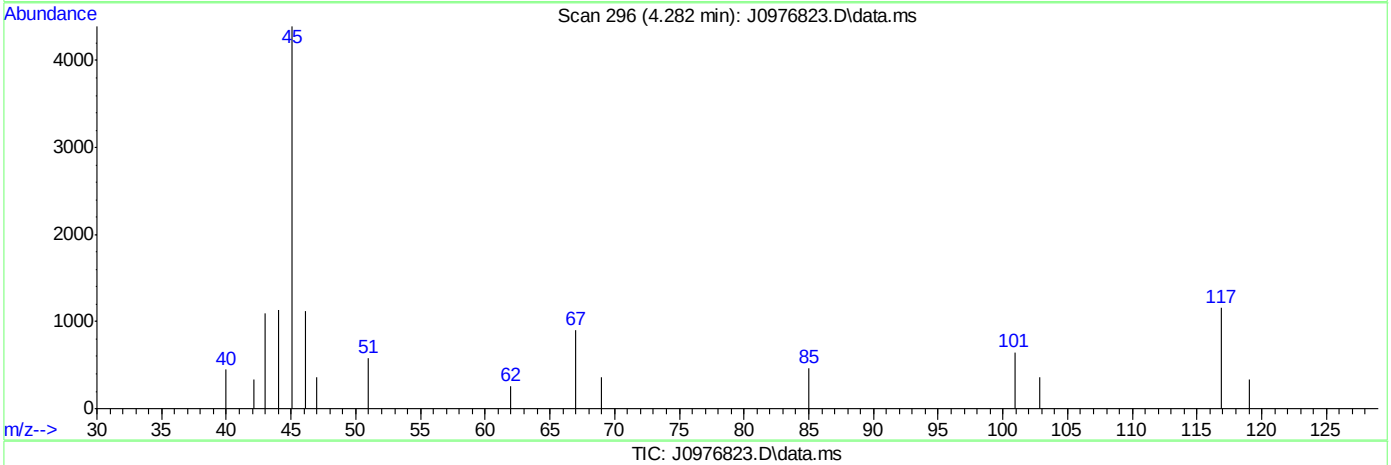
SGS ACCUTEST FA34224

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\052616\
Data File : J0976823.D
Acq On : 26 May 2016 1:17 pm
Operator : DARSHNAP
Sample : fa34224-1msd ma Inst : MSVOA6
Misc : MS34002,VJ5316,,,,,
ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 26 13:39:00 2016
Quant Method : C:\msdchem\2\methods\MSJ052316a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed May 25 09:12:25 2016
Response via : Initial Calibration





TIC: J0976823.D\data.ms

(107) Ethanol

4.282min (+0.000) 383.02ug/L

response 18877

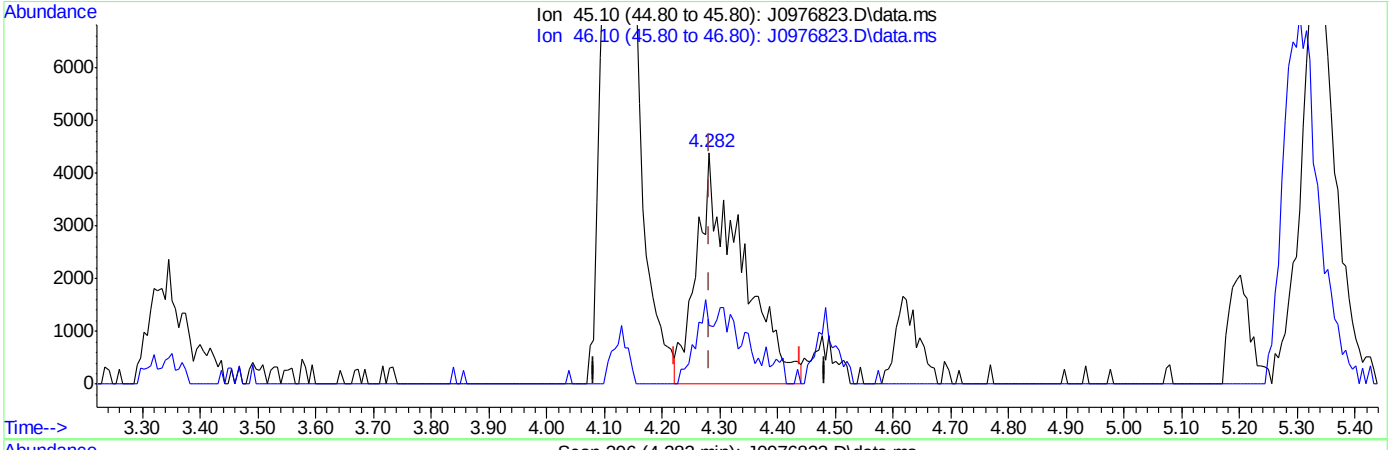
Ion	Exp%	Act%
45.10	100	100
46.10	34.10	27.84
0.00	0.00	0.00
0.00	0.00	0.00

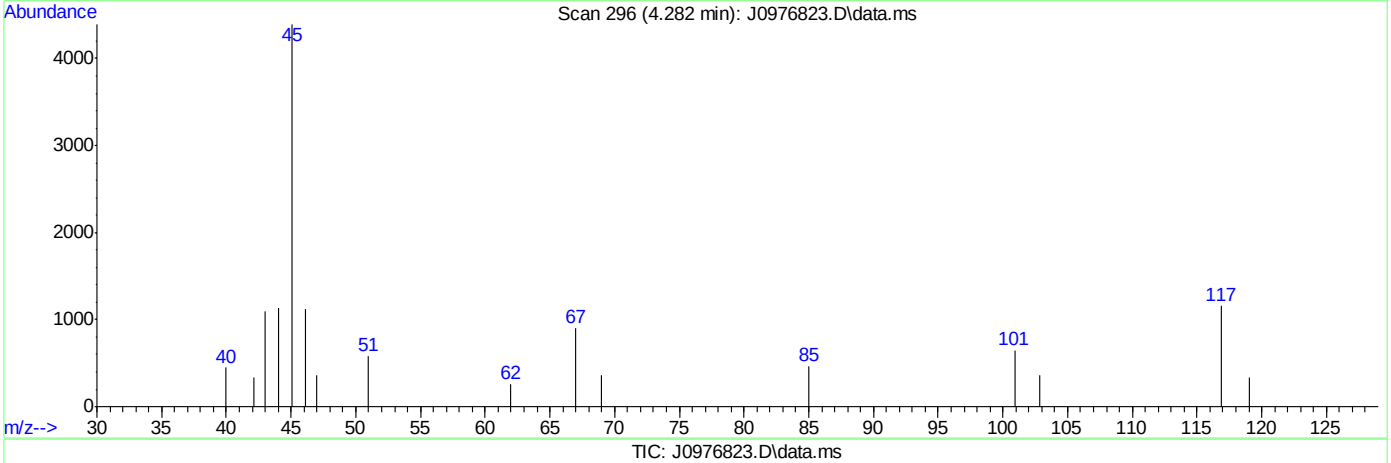
SGS ACCUTEST FA34224

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\052616\
Data File : J0976823.D
Acq On : 26 May 2016 1:17 pm
Operator : DARSHNAP
Sample : fa34224-1msd ma Inst : MSVOA6
Misc : MS34002,VJ5316,,,,,
ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 26 13:39:00 2016
Quant Method : C:\msdchem\2\methods\MSJ052316a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed May 25 09:12:25 2016
Response via : Initial Calibration





TIC: J0976823.D\data.ms

(107) Ethanol

4.282min (+0.000) 479.54ug/L m

response 23634

Ion	Exp%	Act%
45.10	100	100
46.10	34.10	25.55
0.00	0.00	0.00
0.00	0.00	0.00

SGS ACCUTEST FA34224

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\052616\
Data File : Y28874.D
Acq On : 26 May 2016 1:58 pm
Operator : ericp
Sample : FA34192-5MS MA Inst : MSVOA14
Misc : MS34004,VY1166,4.69,,,5,,
ALS Vial : 17 Sample Multiplier: 1

Quant Time: May 26 14:22:34 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	7.118	96	1276254	50.00	ug/Kg	0.00
54) Chlorobenzene-d5	10.306	117	853135	50.00	ug/Kg	0.00
76) 1,4-Dichlorobenzene-d4	12.678	152	422846	50.00	ug/Kg	0.00
103) Tert Butyl Alcohol-d10	4.630	65	173016	250.00	ug/Kg	-0.02
System Monitoring Compounds						
35) Dibromofluoromethane	6.236	113	290476	49.44	ug/Kg	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 98.88%			
44) 1,2-Dichloroethane-d4	6.820	65	317348	50.90	ug/Kg	0.00
Spiked Amount 50.000	Range 72 - 135		Recovery = 101.80%			
55) Toluene-d8	8.742	98	1197101	49.80	ug/Kg	0.00
Spiked Amount 50.000	Range 75 - 126		Recovery = 99.60%			
77) 4-Bromofluorobenzene	11.534	174	293854	51.00	ug/Kg	0.00
Spiked Amount 50.000	Range 71 - 133		Recovery = 102.00%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.983	85	389748	29.42	ug/Kg	96
3) Chloromethane	2.202	50	529104	39.75	ug/Kg	97
4) Vinyl Chloride	2.318	62	529576	39.59	ug/Kg	99
5) Bromomethane	2.719	94	253000	40.47	ug/Kg	93
6) Chloroethane	2.878	64	270195	41.19	ug/Kg	94
7) Trichlorofluoromethane	3.054	101	532901	42.26	ug/Kg	96
8) Ethyl Ether	3.407	59	373819	58.36	ug/Kg	94
9) 1,2-Dichlorotrifluoroe...	3.638	67	538407	49.00	ug/Kg	98
10) 1,1-Dichloroethene	3.650	61	731622	49.94	ug/Kg	98
11) Freon 113	3.705	101	368555	36.91	ug/Kg	97
12) Carbon Disulfide	3.693	76	1438811	47.00	ug/Kg	98
13) Iodomethane	3.815	142	602321	45.16	ug/Kg	95
14) Allyl chloride	4.180	41	616727	51.34	ug/Kg	96
15) Methylene Chloride	4.295	49	683050	63.58	ug/Kg	99
16) Acetone	4.344	43	652410	302.03	ug/Kg	100
17) Methyl acetate	4.490	43	1398501	344.47	ug/Kg	97
18) trans-1,2-Dichloroethene	4.484	61	634412	56.12	ug/Kg	94
19) Hexane	4.581	56	320128	36.97	ug/Kg	98
20) Methyl Tert Butyl Ether	4.611	73	1252508	58.34	ug/Kg#	25
21) Acetonitrile	4.843	41	427800	609.78	ug/Kg	96
22) Di-isopropyl ether	5.025	45	1210052	49.98	ug/Kg	92
23) Chloroprene	5.141	53	559665	40.88	ug/Kg	99
24) 1,1-Dichloroethane	5.159	63	689483	45.50	ug/Kg	98
25) Acrylonitrile	5.195	53	580364	247.55	ug/Kg	100
26) ETBE	5.427	59	1194409	49.91	ug/Kg	96
27) Vinyl acetate	5.421	43	2582501	220.10	ug/Kg	93
28) cis-1,2-Dichloroethene	5.749	96	416406	43.75	ug/Kg	98
29) 2,2-Dichloropropane	5.871	77	296342	44.59	ug/Kg	97
30) Bromochloromethane	5.968	128	182149	45.29	ug/Kg#	87
31) Cyclohexane	5.998	84	549938	34.68	ug/Kg	98
32) Chloroform	6.041	83	683073	44.96	ug/Kg	99
33) Ethyl acetate	6.163	43	1274563	249.14	ug/Kg	94
34) Tetrahydrofuran	6.236	42	84091	45.12	ug/Kg	85
36) Carbon Tetrachloride	6.217	117	422007	40.12	ug/Kg	96

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\052616\
Data File : Y28874.D
Acq On : 26 May 2016 1:58 pm
Operator : ericp
Sample : FA34192-5MS MA Inst : MSVOA14
Misc : MS34004,VY1166,4.69,,,5,,
ALS Vial : 17 Sample Multiplier: 1

Quant Time: May 26 14:22:34 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	6.278	97	506757	43.43	ug/Kg	93
38) 2-Butanone	6.363	43	654209	222.77	ug/Kg	99
39) 1,1-Dichloropropene	6.412	75	526964	43.01	ug/Kg	98
40) Propionitrile	6.674	54	418338	475.18	ug/Kg	99
41) Methacrylonitrile	6.704	41	1581031	510.18	ug/Kg	92
42) Benzene	6.680	78	1535625	45.02	ug/Kg	97
43) TAME	6.801	73	1077608	47.96	ug/Kg	98
45) 1,2-Dichloroethane	6.893	62	446184	47.25	ug/Kg	97
46) Trichloroethene	7.313	95	375340	42.60	ug/Kg	96
47) Methylcyclohexane	7.313	83	548759	31.51	ug/Kg	99
48) Dibromomethane	7.744	93	195827	46.92	ug/Kg	97
49) 1,2-Dichloropropane	7.842	63	390103	46.11	ug/Kg	95
50) Bromodichloromethane	7.903	83	460115	45.79	ug/Kg	99
51) Methyl methacrylate	8.049	41	198526	46.98	ug/Kg	95
52) 2-Chloroethyl vinyl ether	8.468	63	912615	236.59	ug/Kg	96
53) cis-1,3-Dichloropropene	8.547	75	596998	47.54	ug/Kg	98
56) Toluene	8.797	91	1549271	44.82	ug/Kg	95
57) 2-Nitropropane	9.004	41	333549	243.57	ug/Kg	95
58) 4-Methyl-2-pentanone	9.150	43	1344448	252.13	ug/Kg	93
59) trans-1,3-Dichloropropene	9.198	75	495060	51.52	ug/Kg	97
60) Tetrachloroethene	9.204	166	351015	43.60	ug/Kg	97
61) Ethyl methacrylate	9.344	69	354062	47.20	ug/Kg	94
62) 1,1,2-Trichloroethane	9.363	83	280037	53.00	ug/Kg	95
63) Dibromochloromethane	9.557	129	298579	47.13	ug/Kg	99
64) 1,3-Dichloropropane	9.642	76	517104	46.51	ug/Kg	99
65) 1,2-Dibromoethane	9.801	107	276499	47.90	ug/Kg	99
66) 2-hexanone	9.983	43	876292	232.42	ug/Kg	94
67) 1-Chlorohexane	10.287	91	440871	39.46	ug/Kg	92
68) Ethylbenzene	10.336	91	3672800	102.18	ug/Kg	92
69) Chlorobenzene	10.324	112	973798	46.02	ug/Kg	96
70) 1,1,1,2-Tetrachloroethane	10.385	131	322873	46.06	ug/Kg	96
71) m,p-Xylene	10.482	91	2864716	110.95	ug/Kg	93
72) o-Xylene	10.920	91	1344196	48.46	ug/Kg	98
73) Styrene	10.969	104	976566	48.24	ug/Kg	95
74) Bromoform	11.011	173	160044	47.46	ug/Kg	97
75) Isopropylbenzene	11.230	105	1674324	49.39	ug/Kg	96
78) cis-1,4-Dichloro-2-butene	11.577	53	114072	52.56	ug/Kg#	74
79) n-Propylbenzene	11.650	91	1823960	44.31	ug/Kg	95
80) Bromobenzene	11.650	156	365803	45.27	ug/Kg	100
81) 1,1,2,2-Tetrachloroethane	11.711	83	459292	55.54	ug/Kg	98
82) 1,3,5-Trimethylbenzene	11.845	105	1390333	43.72	ug/Kg	99
83) 2-Chlorotoluene	11.826	91	1287634	44.60	ug/Kg	97
84) trans-1,4-Dichloro-2-B...	11.887	53	84362	39.09	ug/Kg#	82
85) 1,2,3-Trichloropropane	11.857	110	107487	48.60	ug/Kg	93
86) Cyclohexanone	11.912	55	83212	211.69	ug/Kg	96
87) 4-Chlorotoluene	11.991	91	1172192	44.72	ug/Kg	99
88) tert-Butylbenzene	12.173	91	812261	42.34	ug/Kg	88
89) 1,2,4-Trimethylbenzene	12.246	105	1376700	45.13	ug/Kg	97
90) Pentachloroethane	12.210	167	201161	43.32	ug/Kg	95
91) sec-Butylbenzene	12.356	105	1677533	41.26	ug/Kg	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\052616\
Data File : Y28874.D
Acq On : 26 May 2016 1:58 pm
Operator : ericp
Sample : FA34192-5MS MA Inst : MSVOA14
Misc : MS34004,VY1166,4.69,,,5,,
ALS Vial : 17 Sample Multiplier: 1

Quant Time: May 26 14:22:34 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

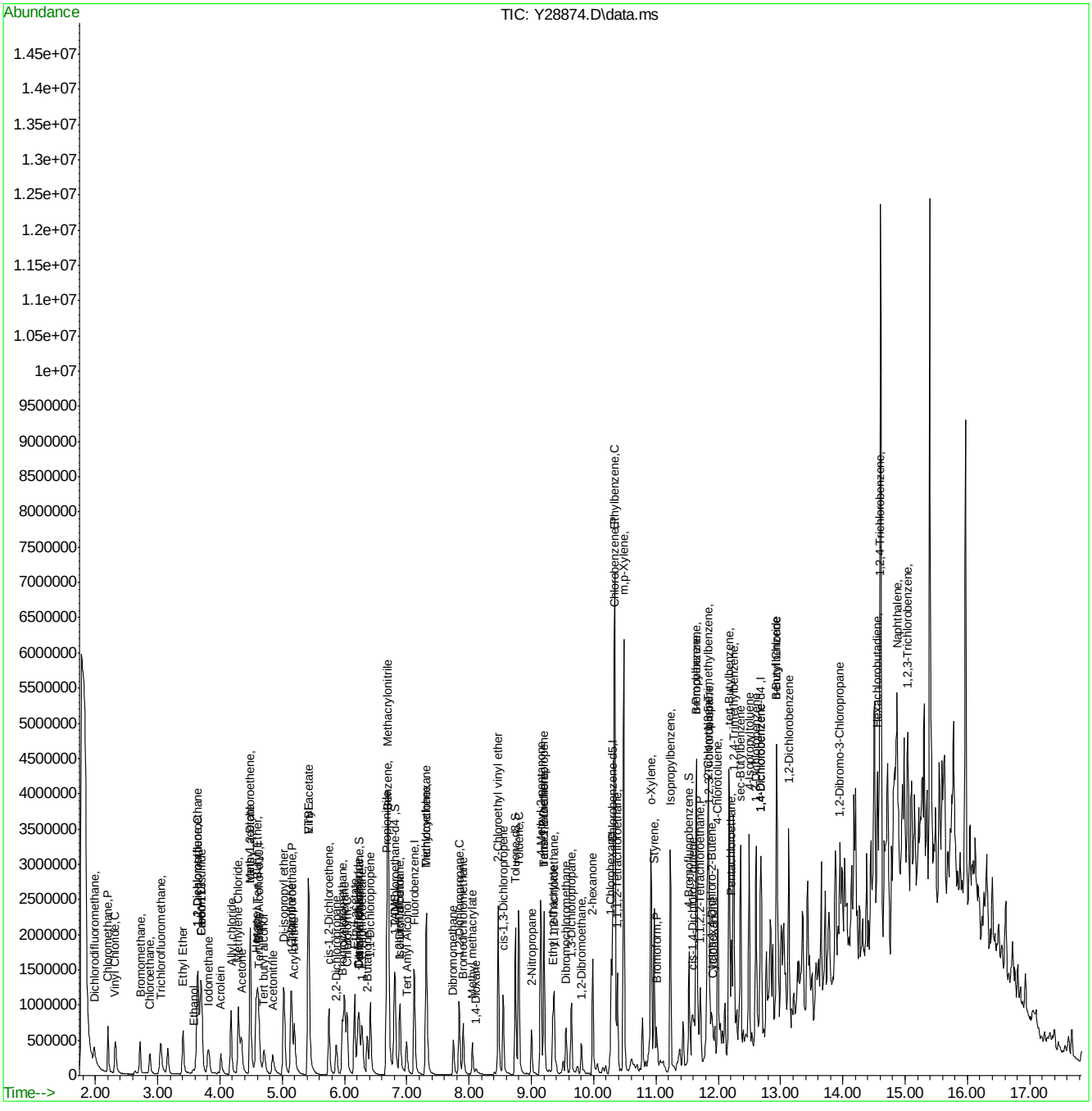
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
92) 4-Isopropyltoluene	12.496	119	1365424	41.13	ug/Kg	98
93) 1,3-Dichlorobenzene	12.605	146	707485	43.97	ug/Kg	94
94) 1,4-Dichlorobenzene	12.690	146	717336	43.61	ug/Kg	97
95) n-Butylbenzene	12.934	92	785472	40.39	ug/Kg	90
96) Benzyl Chloride	12.934	126	151589	49.35	ug/Kg#	54
97) 1,2-Dichlorobenzene	13.128	146	700896	45.94	ug/Kg	95
98) 1,2-Dibromo-3-Chloropr...	13.943	75	76335	50.94	ug/Kg	95
99) Hexachlorobutadiene	14.552	225	148442	25.07	ug/Kg	96
100) 1,2,4-Trichlorobenzene	14.588	180	442879	42.01	ug/Kg	99
101) Naphthalene	14.874	128	1223648	52.67	ug/Kg	97
102) 1,2,3-Trichlorobenzene	15.039	180	458479	45.20	ug/Kg	92
104) Ethanol	3.571	45	83872	890.56	ug/Kg	94
105) Acrolein	4.015	56	286288	177.41	ug/Kg	95
106) Tert butyl alcohol	4.709	59	466600	471.06	ug/Kg	89
107) Isobutyl alcohol	6.887	42	157746	717.73	ug/Kg	93
108) Tert Amyl Alcohol	6.996	59	302513	382.64	ug/Kg	92
109) 1,4-Dioxane	8.116	88	68827	708.78	ug/Kg	94

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\052616\
Data File : Y28874.D
Acq On : 26 May 2016 1:58 pm
Operator : ericp
Sample : FA34192-5MS MA Inst : MSVOA14
Misc : MS34004,VY1166,4.69,,,5,,
ALS Vial : 17 Sample Multiplier: 1

Quant Time: May 26 14:22:34 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 FA34224

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\052616\
Data File : Y28875.D
Acq On : 26 May 2016 2:24 pm
Operator : ericp
Sample : FA34192-5MSD MA Inst : MSVOA14
Misc : MS34004,VY1166,4.68,,,5,,
ALS Vial : 18 Sample Multiplier: 1

Quant Time: May 26 14:43:21 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	1298685	50.00	ug/Kg	0.00
54) Chlorobenzene-d5	10.310	117	885456	50.00	ug/Kg	0.00
76) 1,4-Dichlorobenzene-d4	12.676	152	432161	50.00	ug/Kg	0.00
103) Tert Butyl Alcohol-d10	4.628	65	154469	250.00	ug/Kg	-0.02
System Monitoring Compounds						
35) Dibromofluoromethane	6.240	113	289813	48.47	ug/Kg	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 96.94%			
44) 1,2-Dichloroethane-d4	6.818	65	309369	48.76	ug/Kg	0.00
Spiked Amount 50.000	Range 72 - 135		Recovery = 97.52%			
55) Toluene-d8	8.746	98	1240338	49.71	ug/Kg	0.00
Spiked Amount 50.000	Range 75 - 126		Recovery = 99.42%			
77) 4-Bromofluorobenzene	11.532	174	317242	53.88	ug/Kg	0.00
Spiked Amount 50.000	Range 71 - 133		Recovery = 107.76%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.981	85	412612	30.61	ug/Kg	100
3) Chloromethane	2.200	50	528776	39.04	ug/Kg	97
4) Vinyl Chloride	2.322	62	532724	39.14	ug/Kg	98
5) Bromomethane	2.717	94	259353	40.77	ug/Kg	91
6) Chloroethane	2.882	64	306040	45.85	ug/Kg	97
7) Trichlorofluoromethane	3.058	101	542570	42.29	ug/Kg	97
8) Ethyl Ether	3.405	59	367620	56.41	ug/Kg	97
9) 1,2-Dichlorotrifluoroe...	3.642	67	523303	46.81	ug/Kg	96
10) 1,1-Dichloroethene	3.648	61	703075	47.17	ug/Kg	96
11) Freon 113	3.709	101	366254	36.05	ug/Kg	95
12) Carbon Disulfide	3.691	76	1401033	44.97	ug/Kg	96
13) Iodomethane	3.825	142	614022	45.24	ug/Kg	99
14) Allyl chloride	4.177	41	618129	50.57	ug/Kg	96
15) Methylene Chloride	4.293	49	675671	61.76	ug/Kg	98
16) Acetone	4.342	43	650796	296.08	ug/Kg	95
17) Methyl acetate	4.488	43	1259673	304.92	ug/Kg	95
18) trans-1,2-Dichloroethene	4.488	61	597063	51.90	ug/Kg	99
19) Hexane	4.579	56	316688	35.94	ug/Kg	95
20) Methyl Tert Butyl Ether	4.609	73	1218560	55.78	ug/Kg#	28
21) Acetonitrile	4.847	41	422116	591.29	ug/Kg	97
22) Di-isopropyl ether	5.029	45	1410598	57.26	ug/Kg	95
23) Chloroprene	5.139	53	573040	41.13	ug/Kg	98
24) 1,1-Dichloroethane	5.157	63	704103	45.66	ug/Kg	96
25) Acrylonitrile	5.193	53	577833	242.21	ug/Kg	95
26) ETBE	5.425	59	1203843	49.44	ug/Kg	95
27) Vinyl acetate	5.418	43	2603486	218.06	ug/Kg	94
28) cis-1,2-Dichloroethene	5.747	96	425678	43.95	ug/Kg	98
29) 2,2-Dichloropropane	5.869	77	286036	42.30	ug/Kg	97
30) Bromochloromethane	5.966	128	188975	46.17	ug/Kg#	80
31) Cyclohexane	6.003	84	574713	35.61	ug/Kg	92
32) Chloroform	6.039	83	678166	43.86	ug/Kg	96
33) Ethyl acetate	6.161	43	1231983	236.65	ug/Kg	94
34) Tetrahydrofuran	6.234	42	84243	44.42	ug/Kg	93
36) Carbon Tetrachloride	6.215	117	426900	39.88	ug/Kg	98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\052616\
Data File : Y28875.D
Acq On : 26 May 2016 2:24 pm
Operator : ericp
Sample : FA34192-5MSD MA Inst : MSVOA14
Misc : MS34004,VY1166,4.68,,,5,,
ALS Vial : 18 Sample Multiplier: 1

Quant Time: May 26 14:43:21 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	495512	41.73 ug/Kg	94
38) 2-Butanone	6.361	43	652924	218.49 ug/Kg	93
39) 1,1-Dichloropropene	6.416	75	533919	42.83 ug/Kg	97
40) Propionitrile	6.672	54	395769	441.78 ug/Kg	96
41) Methacrylonitrile	6.702	41	1510898	479.12 ug/Kg	93
42) Benzene	6.684	78	1532154	44.14 ug/Kg	97
43) TAME	6.799	73	1073316	46.95 ug/Kg	95
45) 1,2-Dichloroethane	6.891	62	451746	47.01 ug/Kg	95
46) Trichloroethene	7.310	95	387126	43.18 ug/Kg	95
47) Methylcyclohexane	7.317	83	548154	30.93 ug/Kg	96
48) Dibromomethane	7.748	93	195010	45.92 ug/Kg	95
49) 1,2-Dichloropropane	7.840	63	383710	44.57 ug/Kg	95
50) Bromodichloromethane	7.907	83	458614	44.85 ug/Kg	98
51) Methyl methacrylate	8.053	41	204013	47.42 ug/Kg	90
52) 2-Chloroethyl vinyl ether	8.466	63	919452	234.24 ug/Kg	96
53) cis-1,3-Dichloropropene	8.545	75	597874	46.78 ug/Kg	95
56) Toluene	8.795	91	1562208	43.54 ug/Kg	96
57) 2-Nitropropane	9.002	41	321201	225.99 ug/Kg	94
58) 4-Methyl-2-pentanone	9.148	43	1302147	235.28 ug/Kg	95
59) trans-1,3-Dichloropropene	9.202	75	485685	48.70 ug/Kg	97
60) Tetrachloroethene	9.202	166	375909	44.99 ug/Kg	97
61) Ethyl methacrylate	9.342	69	356591	45.80 ug/Kg	94
62) 1,1,2-Trichloroethane	9.361	83	272492	49.69 ug/Kg	93
63) Dibromochloromethane	9.555	129	309248	47.03 ug/Kg	98
64) 1,3-Dichloropropane	9.640	76	513519	44.50 ug/Kg	98
65) 1,2-Dibromoethane	9.805	107	275897	46.05 ug/Kg	99
66) 2-hexanone	9.987	43	855437	218.61 ug/Kg	90
67) 1-Chlorohexane	10.285	91	429696	37.06 ug/Kg	94
68) Ethylbenzene	10.340	91	3516860	94.27 ug/Kg	90
69) Chlorobenzene	10.328	112	967907	44.07 ug/Kg	91
70) 1,1,1,2-Tetrachloroethane	10.383	131	336083	46.19 ug/Kg	97
71) m,p-Xylene	10.480	91	2822549	105.33 ug/Kg	94
72) o-Xylene	10.918	91	1356473	47.12 ug/Kg	99
73) Styrene	10.973	104	1003002	47.73 ug/Kg	96
74) Bromoform	11.015	173	164129	46.89 ug/Kg	96
75) Isopropylbenzene	11.228	105	1690961	48.06 ug/Kg	98
78) cis-1,4-Dichloro-2-butene	11.575	53	101312	45.67 ug/Kg#	81
79) n-Propylbenzene	11.654	91	1827417	43.44 ug/Kg	95
80) Bromobenzene	11.648	156	379246	45.92 ug/Kg	99
81) 1,1,2,2-Tetrachloroethane	11.715	83	452585	53.55 ug/Kg	93
82) 1,3,5-Trimethylbenzene	11.843	105	1384817	42.61 ug/Kg	97
83) 2-Chlorotoluene	11.824	91	1285332	43.56 ug/Kg	98
84) trans-1,4-Dichloro-2-B...	11.891	53	89043	40.37 ug/Kg	92
85) 1,2,3-Trichloropropane	11.861	110	109239	48.33 ug/Kg	94
86) Cyclohexanone	11.910	55	79209	197.17 ug/Kg	84
87) 4-Chlorotoluene	11.995	91	1198999	44.75 ug/Kg	94
88) tert-Butylbenzene	12.171	91	778077	39.68 ug/Kg	89
89) 1,2,4-Trimethylbenzene	12.244	105	1366085	43.81 ug/Kg	96
90) Pentachloroethane	12.214	167	204357	43.06 ug/Kg	93
91) sec-Butylbenzene	12.360	105	1649083	39.69 ug/Kg	96

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\052616\
Data File : Y28875.D
Acq On : 26 May 2016 2:24 pm
Operator : ericp
Sample : FA34192-5MSD MA Inst : MSVOA14
Misc : MS34004,VY1166,4.68,,,5,,
ALS Vial : 18 Sample Multiplier: 1

Quant Time: May 26 14:43:21 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	12.500	119	1352789	39.87	ug/Kg	98
93) 1,3-Dichlorobenzene	12.603	146	741074	45.07	ug/Kg	96
94) 1,4-Dichlorobenzene	12.694	146	737963	43.90	ug/Kg	97
95) n-Butylbenzene	12.938	92	746151	37.54	ug/Kg	94
96) Benzyl Chloride	12.938	126	151777	48.34	ug/Kg#	48
97) 1,2-Dichlorobenzene	13.132	146	708693	45.45	ug/Kg	97
98) 1,2-Dibromo-3-Chloropr...	13.941	75	74513	48.65	ug/Kg	92
99) Hexachlorobutadiene	14.556	225	148961	24.62	ug/Kg	91
100) 1,2,4-Trichlorobenzene	14.586	180	454265	42.16	ug/Kg	96
101) Naphthalene	14.872	128	1231978	51.89	ug/Kg	98
102) 1,2,3-Trichlorobenzene	15.036	180	440097	42.46	ug/Kg	93
104) Ethanol	3.569	45	80099	952.62	ug/Kg	85
105) Acrolein	4.013	56	265149	184.04	ug/Kg	94
106) Tert butyl alcohol	4.707	59	444051	502.12	ug/Kg	91
107) Isobutyl alcohol	6.891	42	149114	759.92	ug/Kg	93
108) Tert Amyl Alcohol	7.000	59	286782	406.30	ug/Kg	89
109) 1,4-Dioxane	8.113	88	78228	902.32	ug/Kg	93

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

7.4.4

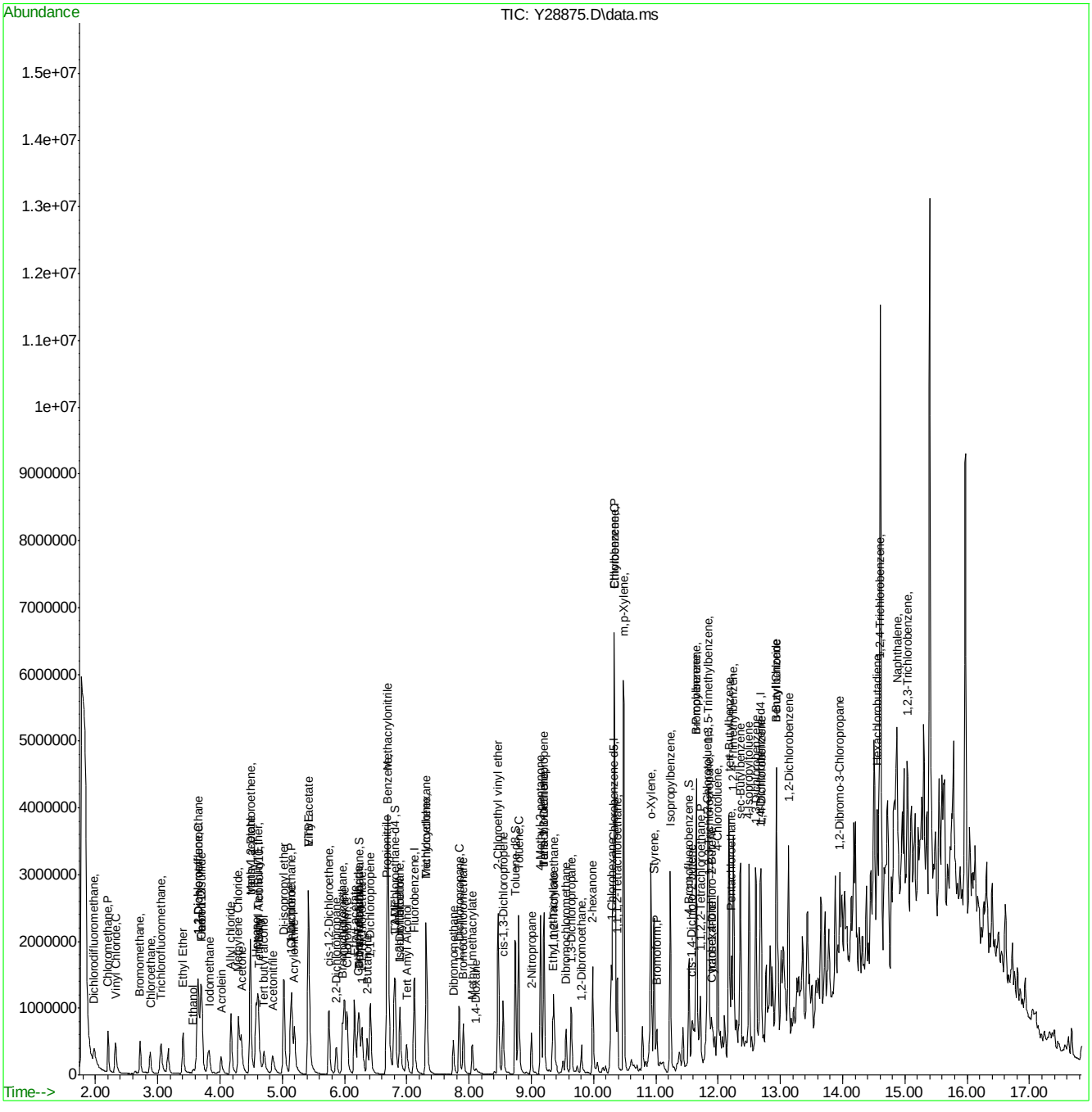
7

SGS ACCUTEST FA34224

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\052616\
Data File : Y28875.D
Acq On : 26 May 2016 2:24 pm
Operator : ericp
Sample : FA34192-5MSD MA Inst : MSVOA14
Misc : MS34004,VY1166,4.68,,,5,,
ALS Vial : 18 Sample Multiplier: 1

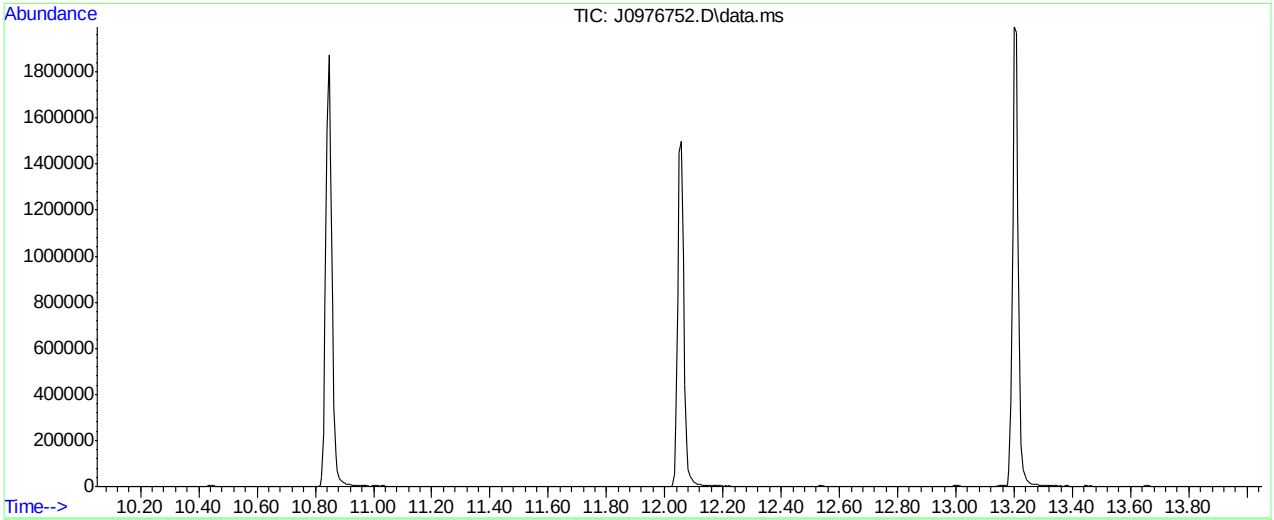
Quant Time: May 26 14:43:21 2016
Quant Method : C:\msdchem\1\METHODS\050616APP9-Y.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri May 06 14:58:04 2016
Response via : Initial Calibration



Methods: SW-846 8260B

Data File : C:\msdchem\2\data\052416\J0976752.D Vial: 1
Acq On : 24 May 2016 9:52 am Operator: DARSHNAP
Sample : bfb Inst : MSVOA6
Misc : MS33959,VJ5312,,,,, Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\msdchem\2\methods\MSJ052316a.M (RTE Integrator)
Title : SW-846 Method 5030B/8260B & EPA 624



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

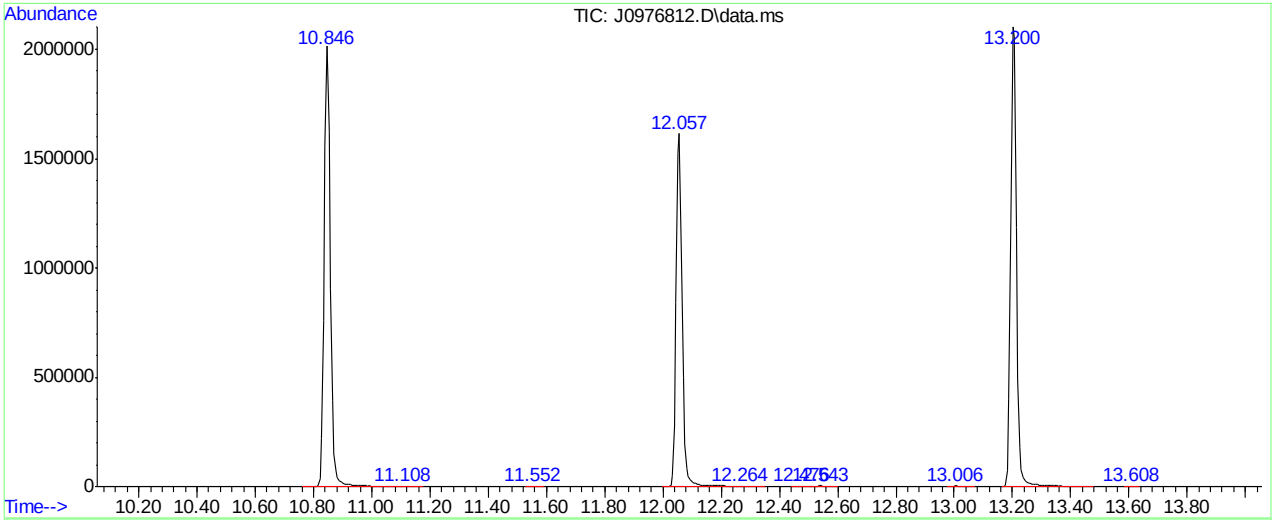
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	18.0	47293	PASS
75	95	30	60	50.4	132477	PASS
95	95	100	100	100.0	262912	PASS
96	95	5	9	6.8	17827	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	79.3	208573	PASS
175	174	5	9	7.7	16138	PASS
176	174	95	101	97.3	202843	PASS
177	176	5	9	6.9	13948	PASS

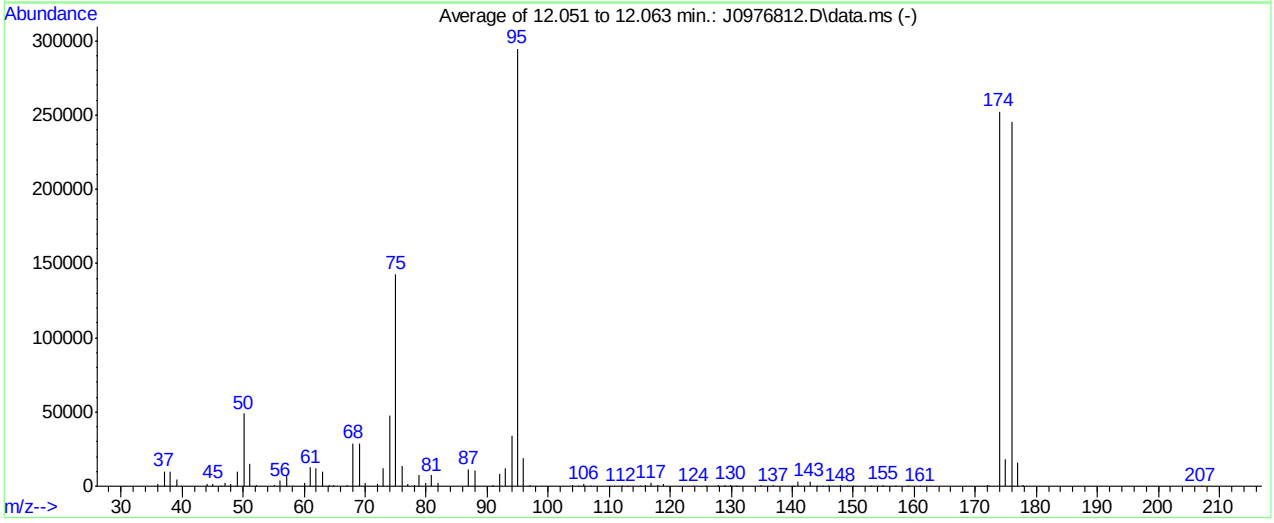
J0976752.D MSJ052316a.M Wed May 25 08:21:03 2016

Methods: SW-846 8260B

Data File : C:\msdchem\2\data\052616\J0976812.D Vial: 1
Acq On : 26 May 2016 8:14 am Operator: DARSHNAP
Sample : bfb Inst : MSVOA6
Misc : MS33990,VJ5315,,,,, Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\msdchem\2\methods\MSJ052316a.M (RTE Integrator)
Title : SW-846 Method 5030B/8260B & EPA 624





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

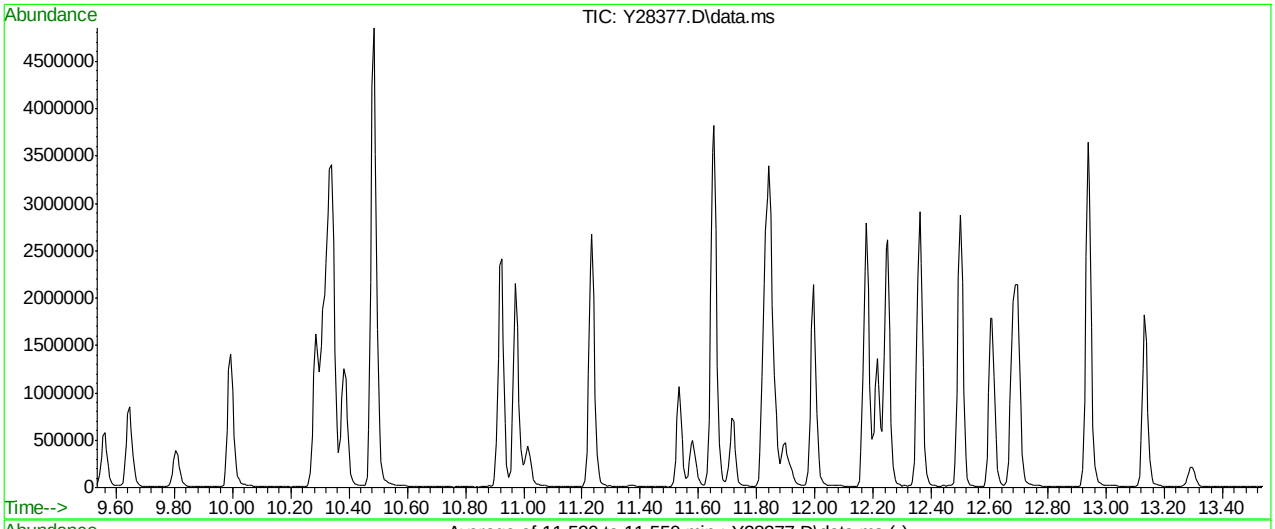
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	16.6	48936	PASS
75	95	30	60	48.4	142821	PASS
95	95	100	100	100.0	294869	PASS
96	95	5	9	6.3	18676	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	85.6	252352	PASS
175	174	5	9	7.1	18002	PASS
176	174	95	101	97.2	245333	PASS
177	176	5	9	6.4	15668	PASS

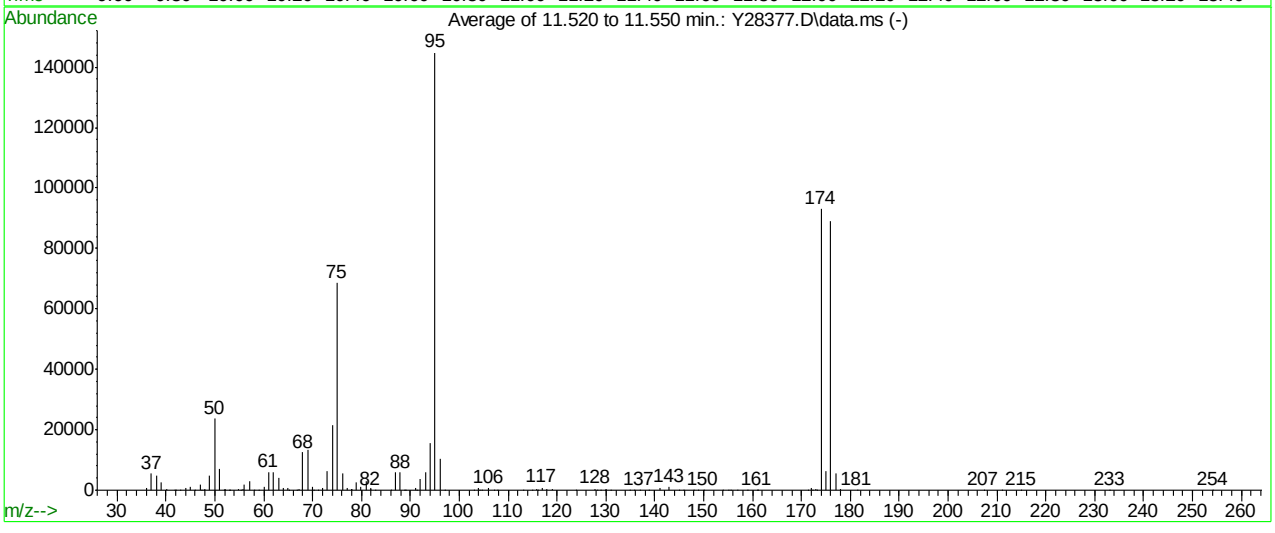
J0976812.D MSJ052316a.M Thu May 26 13:56:58 2016

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.

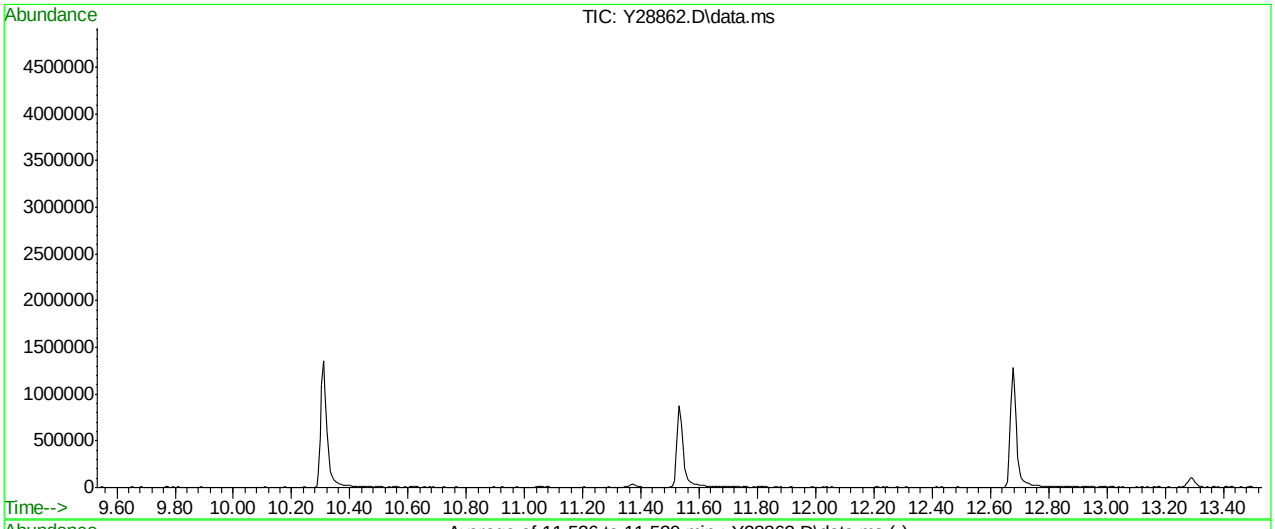
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	16.4	23691	PASS
75	95	30	60	47.4	68609	PASS
95	95	100	100	100.0	144834	PASS
96	95	5	9	7.1	10278	PASS
173	174	0.00	2	0.4	330	PASS
174	95	50	100	64.2	92970	PASS
175	174	5	9	7.0	6489	PASS
176	174	95	101	95.8	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\052616\Y28862.D Vial: 5
Acq On : 26 May 2016 8:41 am Operator: ericp
Sample : BFB Inst : MSVOA14
Misc : MS33984,VY1166,5.00,,,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 11.526 to 11.539 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	17.0	29096	PASS
75	95	30	60	49.2	84197	PASS
95	95	100	100	100.0	171072	PASS
96	95	5	9	7.0	12019	PASS
173	174	0.00	2	1.3	1438	PASS
174	95	50	100	63.6	108824	PASS
175	174	5	9	7.4	8038	PASS
176	174	95	101	95.9	104386	PASS
177	176	5	9	6.4	6655	PASS

Y28862.D 050616APP9-Y.m Thu May 26 12:19:36 2016

Manual Integrations APPROVED (compounds with "m" flag)
Melissa Mangual 05/25/16 12:38

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\052416\
Data File : J0976753.D
Acq On : 24 May 2016 10:33 am
Operator : DARSHNAP
Sample : ic5312-1 Inst : MSVOA6
Misc : MS33959,VJ5312,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 24 12:42:05 2016
Quant Method : C:\msdchem\2\methods\MSJ052316a.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	1087604	50.00	ug/L	0.00
56) Chlorobenzene-d5	10.846	117	856230	50.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	13.207	152	460823	50.00	ug/L	0.00
106) Tert Butyl Alcohol-d10	5.292	65	71149	250.00	ug/L	0.00
System Monitoring Compounds						
36) Dibromofluoromethane	6.922	113	276884	50.81	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 101.62%			
46) 1,2-Dichloroethane-d4	7.476	65	325931	51.16	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 102.32%			
57) Toluene-d8	9.301	98	1123807	50.96	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 101.92%			
79) 4-Bromofluorobenzene	12.051	95	433037	51.54	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 103.08%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.700	85	6212	1.52	ug/L	82
3) Chloromethane	2.877	50	11206	2.09	ug/L	93
4) Vinyl Chloride	3.029	62	9492	1.55	ug/L	88
5) 1,3-Butadiene	3.053	54	4333	31.01	ug/L #	59
6) Bromomethane	3.449	94	11394	2.76	ug/L	79
7) Chloroethane	3.625	64	5265	1.57	ug/L	90
8) Trichlorofluoromethane	3.801	101	10984m	1.41	ug/L	
9) Ethyl Ether	4.118	59	5899	1.35	ug/L #	80
10) 1,2-Dichlorotrifluoroe...	4.361	67	8526	1.28	ug/L	94
11) 1,1-Dichloroethene	4.404	61	10834	1.37	ug/L	95
12) Freon 113	4.471	101	7079	1.29	ug/L	91
13) Carbon Disulfide	4.483	76	27124	1.54	ug/L	94
14) Iodomethane	4.586	142	13041	1.49	ug/L	79
15) Allyl chloride	4.921	41	7520	1.14	ug/L	88
16) Methylene Chloride	5.049	49	15788	2.12	ug/L	90
17) Acetone	5.091	58	3771	11.29	ug/L #	82
18) Methyl acetate	5.213	74	3038	4.83	ug/L #	60
19) trans-1,2-Dichloroethene	5.231	61	10516	1.43	ug/L	95
20) Hexane	5.304	56	5969	1.16	ug/L #	70
21) Methyl Tert Butyl Ether	5.341	73	17947	1.13	ug/L	91
22) Acetonitrile	5.614	40	5056	25.07	ug/L	93
23) Di-isopropyl ether	5.712	45	20025	1.13	ug/L	93
24) Chloroprene	5.882	53	7877	1.17	ug/L	85
25) 1,1-Dichloroethane	5.894	63	14535	1.44	ug/L	96
26) Acrylonitrile	5.943	53	5060	3.82	ug/L	90
27) ETBE	6.113	59	18840	1.04	ug/L	92
28) Vinyl acetate	6.119	43	44392	5.46	ug/L	99
29) cis-1,2-Dichloroethene	6.472	96	8546	1.35	ug/L	86
30) 2,2-Dichloropropane	6.612	77	10730	1.29	ug/L	90
31) Bromochloromethane	6.679	128	3514	1.17	ug/L #	76
32) Cyclohexane	6.740	56	9448	1.01	ug/L #	82
33) Chloroform	6.740	83	15910	1.43	ug/L	94
34) Ethyl acetate	6.819	43	16106	5.34	ug/L	97

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\052416\
Data File : J0976753.D
Acq On : 24 May 2016 10:33 am
Operator : DARSHNAP
Sample : ic5312-1 Inst : MSVOA6
Misc : MS33959,VJ5312,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 24 12:42:05 2016
Quant Method : C:\msdchem\2\methods\MSJ052316a.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	1551	1.70	ug/L		82
37) Carbon Tetrachloride	6.935	117	9933m	1.17	ug/L		
38) 1,1,1-Trichloroethane	6.989	97	12727	1.30	ug/L		90
39) 2-Butanone	7.044	43	8918	6.13	ug/L		73
40) 1,1-Dichloropropene	7.105	75	8847	1.16	ug/L		94
41) tert-Butyl Formate	7.184	59	34693	9.61	ug/L	#	69
42) Propionitrile	7.342	54	5733	11.84	ug/L	#	69
43) Methacrylonitrile	7.366	41	29122	14.43	ug/L		95
44) Benzene	7.360	78	31263	1.25	ug/L		99
45) TAME	7.433	73	17304	1.04	ug/L		79
47) 1,2-Dichloroethane	7.549	62	11782	1.45	ug/L		98
48) Trichloroethene	7.938	95	8346	1.35	ug/L		89
49) Methylcyclohexane	7.957	83	10635	1.01	ug/L		87
50) Dibromomethane	8.364	93	3859	1.13	ug/L		93
51) 1,2-Dichloropropane	8.449	63	7758	1.28	ug/L		90
52) Bromodichloromethane	8.498	83	9238	1.15	ug/L	#	91
53) Methyl methacrylate	8.614	41	2108	0.72	ug/L	#	67
55) cis-1,3-Dichloropropene	9.112	75	8350	0.92	ug/L		96
58) Toluene	9.356	91	41011	1.54	ug/L		96
59) 2-Nitropropane	9.557	41	4744	4.94	ug/L	#	75
60) 4-Methyl-2-pentanone	9.678	43	16386	4.13	ug/L		91
61) trans-1,3-Dichloropropene	9.745	75	7499	0.96	ug/L		86
62) Tetrachloroethene	9.757	166	7883	1.23	ug/L		90
63) Ethyl methacrylate	9.849	69	3238	0.57	ug/L		87
64) 1,1,2-Trichloroethane	9.909	83	4570	1.07	ug/L		83
65) Dibromochloromethane	10.104	129	6042	1.07	ug/L		97
66) 1,3-Dichloropropane	10.189	76	10362	1.18	ug/L		89
67) 1,2-Dibromoethane	10.372	107	5404	1.12	ug/L		85
68) 2-hexanone	10.499	43	9159	3.58	ug/L		77
69) 1-Chlorohexane	10.798	91	6860	0.90	ug/L		86
70) Ethylbenzene	10.865	91	40532	1.26	ug/L		96
71) Chlorobenzene	10.865	112	26110	1.44	ug/L		90
72) 1,1,1,2-Tetrachloroethane	10.913	131	6758	1.16	ug/L	#	77
73) m,p-Xylene	10.998	91	53788	2.15	ug/L		96
74) o-Xylene	11.442	91	23243	1.01	ug/L		96
75) Styrene	11.491	104	15345	0.87	ug/L		95
76) Bromoform	11.552	173	3281	0.91	ug/L		92
77) Isopropylbenzene	11.747	105	25346	0.87	ug/L		89
80) cis-1,4-Dichloro-2-butene	12.099	53	1263	0.90	ug/L	#	34
81) n-Propylbenzene	12.160	91	36834	1.03	ug/L		98
82) Bromobenzene	12.185	156	9380	1.22	ug/L		88
83) 1,1,2,2-Tetrachloroethane	12.221	83	6314	1.01	ug/L		84
84) 1,3,5-Trimethylbenzene	12.349	105	23975	0.91	ug/L		96
85) 2-Chlorotoluene	12.355	91	28348	1.14	ug/L		99
86) trans-1,4-Dichloro-2-B...	12.416	53	748	0.56	ug/L	#	11
87) 1,2,3-Trichloropropane	12.391	110	1413	0.86	ug/L		87
88) Cyclohexanone	12.452	55	861	6.15	ug/L	#	59
89) 4-Chlorotoluene	12.525	91	24495	1.08	ug/L		96
90) a-Methyl Styrene	12.610	118	9033	0.72	ug/L	#	90
91) tert-Butylbenzene	12.684	91	14689	1.04	ug/L		96

SGS ACCUTEST FA34224

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\052416\
Data File : J0976753.D
Acq On : 24 May 2016 10:33 am
Operator : DARSHNAP
Sample : ic5312-1 Inst : MSVOA6
Misc : MS33959,VJ5312,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 24 12:42:05 2016
Quant Method : C:\msdchem\2\methods\MSJ052316a.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)
92) 1,2,4-Trimethylbenzene	12.757	105	23587	0.90	ug/L	94
93) Pentachloroethane	12.744	167	4839	1.07	ug/L #	67
94) sec-Butylbenzene	12.866	105	28573	0.90	ug/L	99
95) 4-Isopropyltoluene	13.000	119	27991	1.16	ug/L	97
96) 1,3-Dichlorobenzene	13.140	146	15335	1.13	ug/L	91
97) 1,4-Dichlorobenzene	13.225	146	19394	1.37	ug/L	86
98) n-Butylbenzene	13.432	92	12388	0.90	ug/L	92
99) Benzyl Chloride	13.456	126	1631	0.75	ug/L #	70
100) 1,2-Dichlorobenzene	13.651	146	14912	1.18	ug/L	92
101) 1,2-Dibromo-3-Chloropr...	14.387	75	634	0.80	ug/L #	73
102) Hexachlorobutadiene	14.928	225	7922	1.52	ug/L	96
103) 1,2,4-Trichlorobenzene	14.977	180	9305	1.10	ug/L	94
104) Naphthalene	15.269	128	10253	0.83	ug/L	92
105) 1,2,3-Trichlorobenzene	15.433	180	8376	1.19	ug/L	87
108) acrolein	4.769	56	2700	4.02	ug/L	83
109) Tert Butyl Alcohol	5.371	59	5021	13.59	ug/L #	79
110) tert Amyl alcohol	7.579	59	2566	8.68	ug/L #	79
111) Isobutyl alcohol	7.458	42	2135	15.87	ug/L #	67
112) 1,4-Dioxane	8.674	88	565	13.59	ug/L #	27
113) 3,3-Dimethyl-1-butanol	10.439	57	10170	31.47	ug/L	88

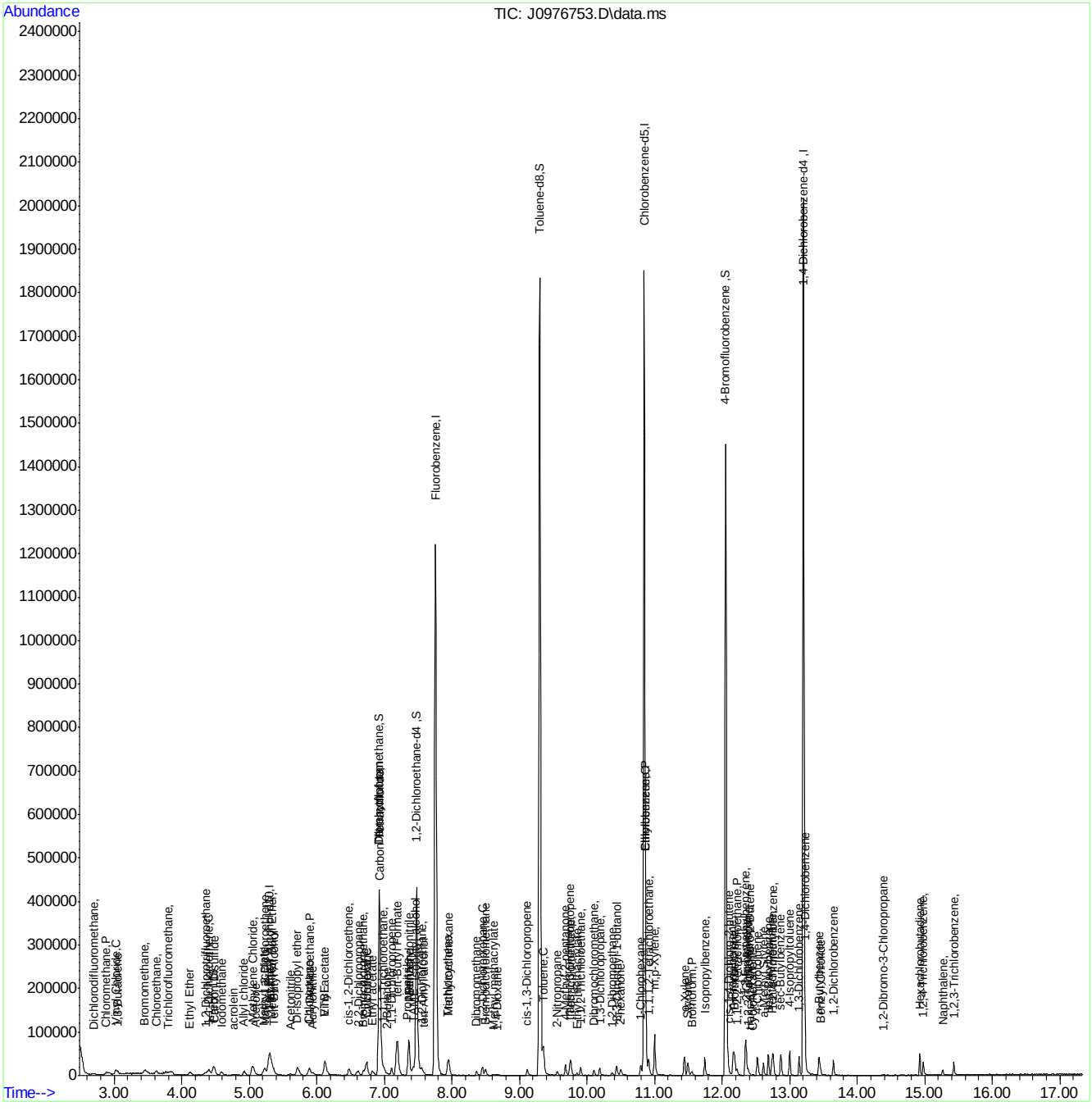
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST FA34224

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\052416\
Data File : J0976753.D
Acq On : 24 May 2016 10:33 am
Operator : DARSHNAP
Sample : ic5312-1 Inst : MSVOA6
Misc : MS33959,VJ5312,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 24 12:42:05 2016
Quant Method : C:\msdchem\2\methods\MSJ052316a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri May 13 08:29:47 2016
Response via : Initial Calibration



MSJ052316a.M Wed May 25 08:16:05 2016 Page: 4

SGS ACCUTEST FA34224

Manual Integration Approval Summary

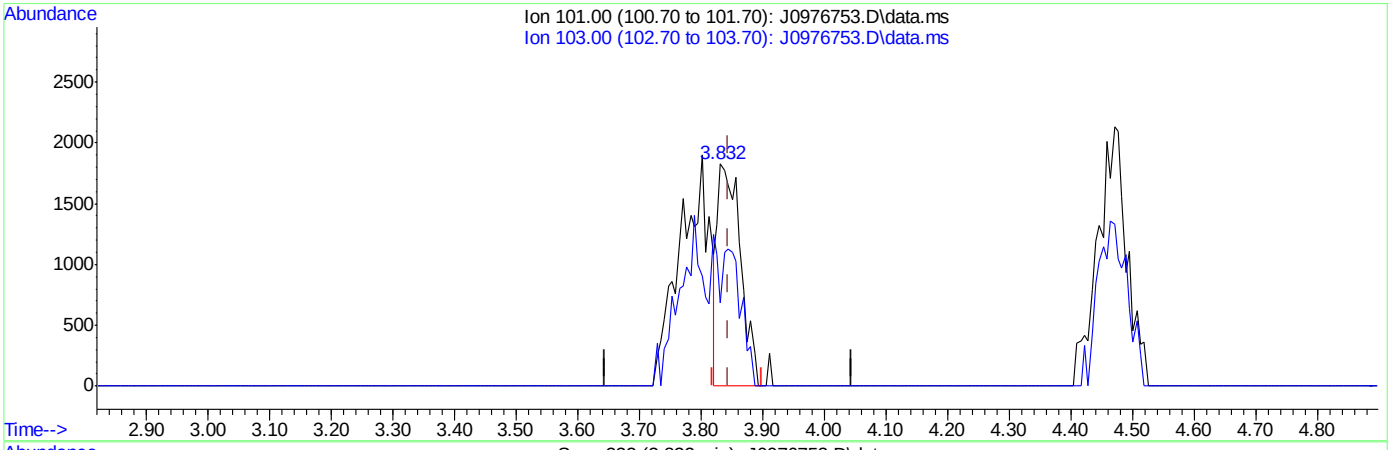
Sample Number:	VJ5312-IC5312	**Method:**	SW846 8260B
Lab FileID:	J0976753.D	**Analyst approved:**	05/25/16 11:19 Darshna Patel
Injection Time:	05/24/16 10:33	**Supervisor approved:**	05/25/16 12:38 Melissa Mangual

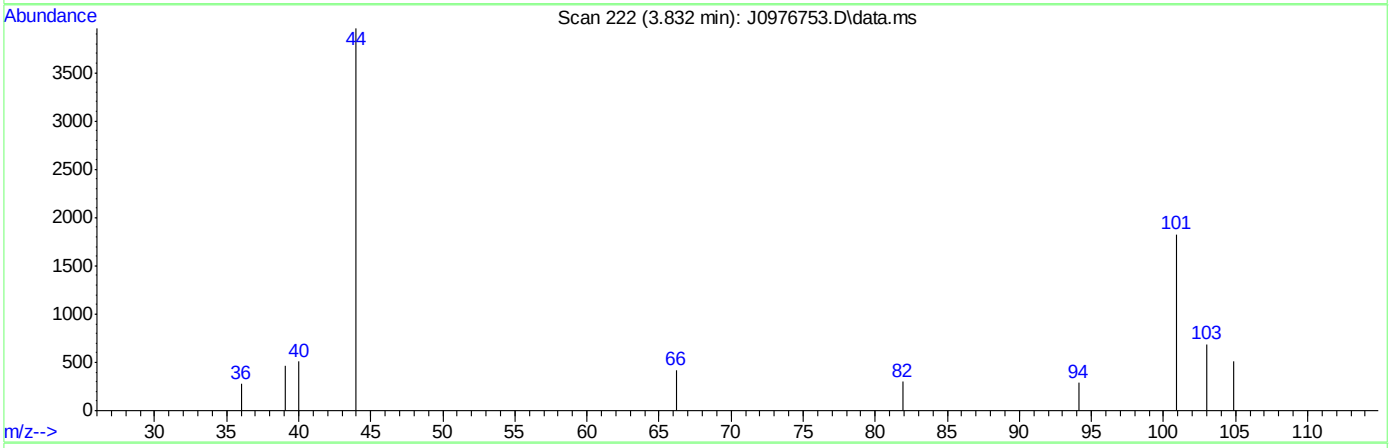
Parameter	CAS	Sig#	R.T. (min.)	Reason
Trichlorofluoromethane	75-69-4		3.80	Split peak
Carbon Tetrachloride	56-23-5		6.93	Overlapping peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\052416\
Data File : J0976753.D
Acq On : 24 May 2016 10:33 am
Operator : DARSHNAP
Sample : ic5312-1 Inst : MSVOA6
Misc : MS33959,VJ5312,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 24 12:40:50 2016
Quant Method : C:\msdchem\2\methods\MSJ052316a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri May 13 08:29:47 2016
Response via : Initial Calibration





TIC: J0976753.D\data.ms

(8) Trichlorofluoromethane ( )

3.832min (-0.012) 0.61ug/L

response 4738

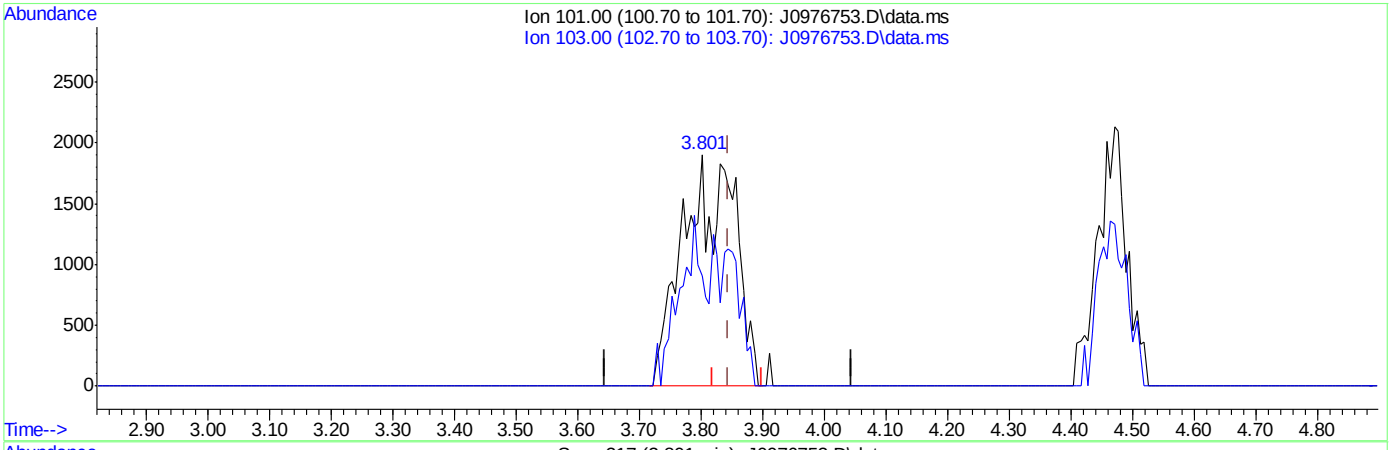
Ion	Exp%	Act%
101.00	100	100
103.00	59.70	37.72
0.00	0.00	0.00
0.00	0.00	0.00

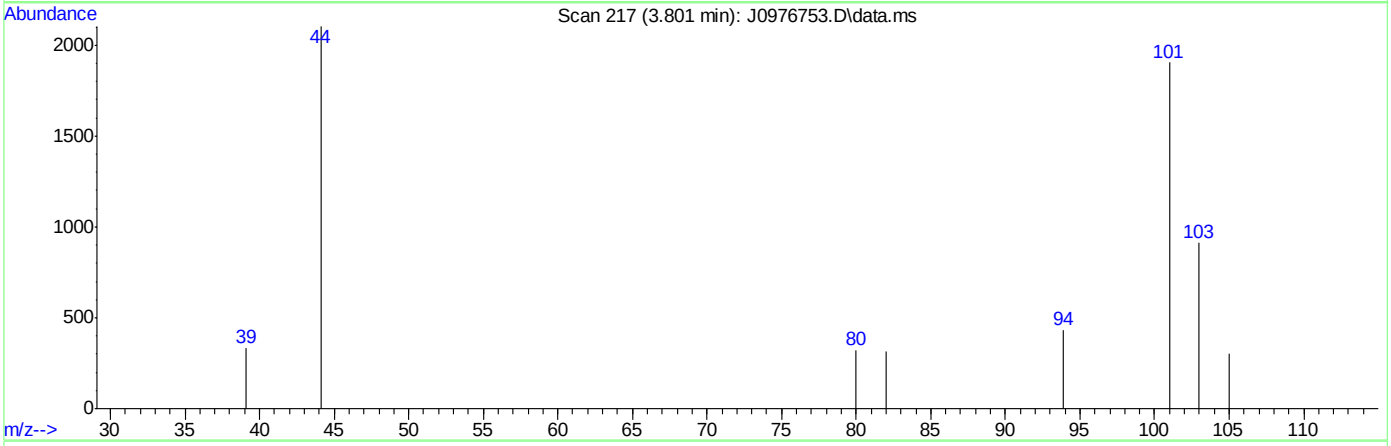
SGS ACCUTEST FA34224

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\052416\
Data File : J0976753.D
Acq On : 24 May 2016 10:33 am
Operator : DARSHNAP
Sample : ic5312-1 Inst : MSVOA6
Misc : MS33959,VJ5312,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 24 12:40:50 2016
Quant Method : C:\msdchem\2\methods\MSJ052316a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri May 13 08:29:47 2016
Response via : Initial Calibration





TIC: J0976753.D\data.ms

(8) Trichlorofluoromethane ( )

3.801min (-0.043) 1.41ug/L m

response 10984

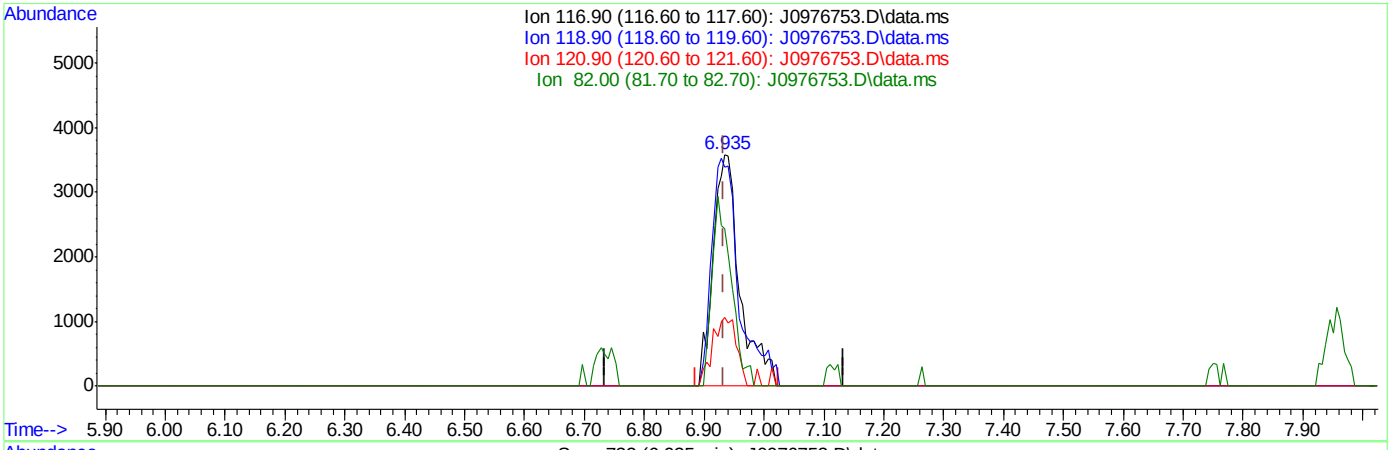
Ion	Exp%	Act%
101.00	100	100
103.00	59.70	47.82
0.00	0.00	0.00
0.00	0.00	0.00

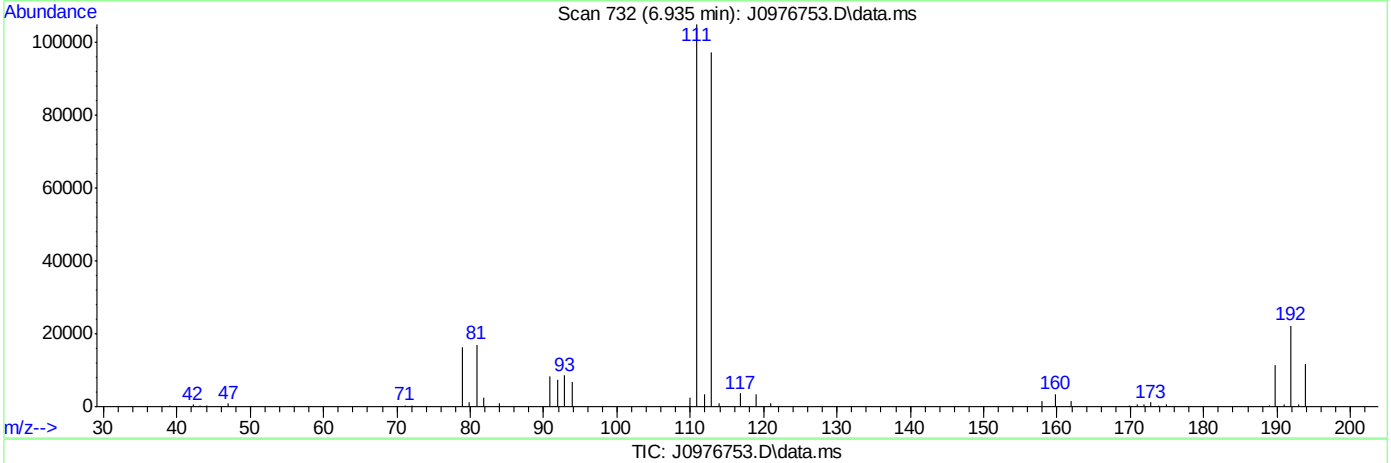
SGS ACCUTEST FA34224

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\052416\
Data File : J0976753.D
Acq On : 24 May 2016 10:33 am
Operator : DARSHNAP
Sample : ic5312-1 Inst : MSVOA6
Misc : MS33959,VJ5312,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 24 12:40:50 2016
Quant Method : C:\msdchem\2\methods\MSJ052316a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri May 13 08:29:47 2016
Response via : Initial Calibration





TIC: J0976753.D\data.ms

(37) Carbon Tetrachloride ( )

6.935min (+0.001) 1.30ug/L

response 11069

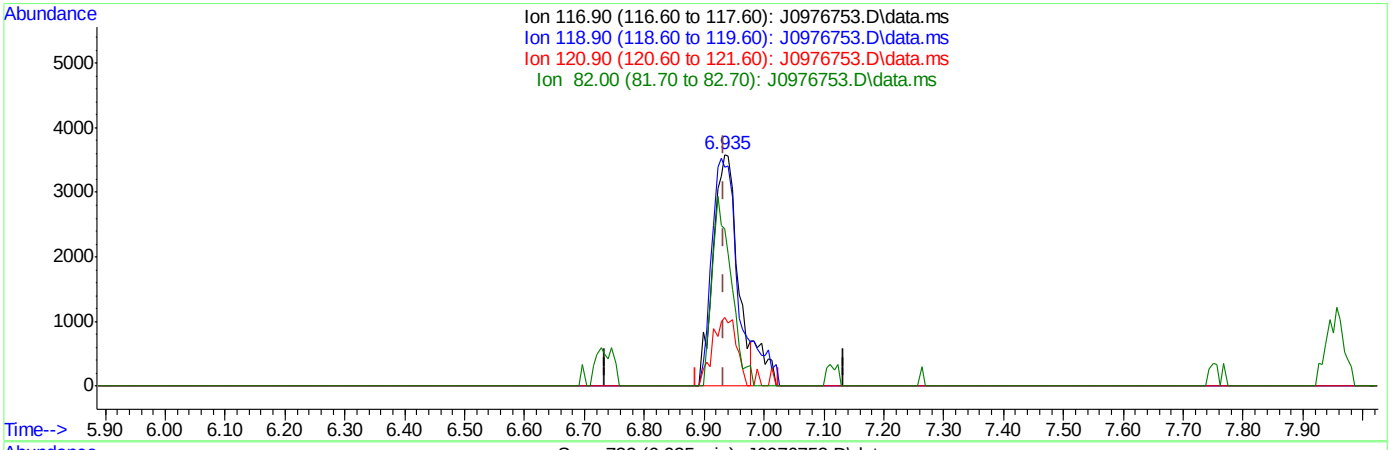
Ion	Exp%	Act%
116.90	100	100
118.90	97.10	94.70
120.90	31.20	29.89
82.00	25.70	67.88#

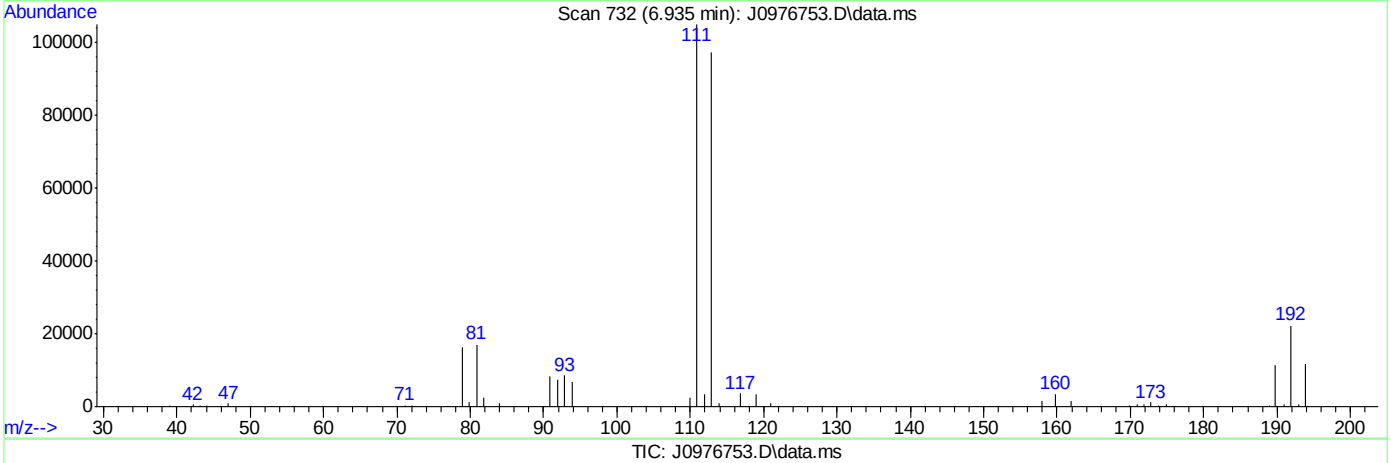
SGS ACCUTEST FA34224

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\052416\
Data File : J0976753.D
Acq On : 24 May 2016 10:33 am
Operator : DARSHNAP
Sample : ic5312-1 Inst : MSVOA6
Misc : MS33959,VJ5312,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 24 12:40:50 2016
Quant Method : C:\msdchem\2\methods\MSJ052316a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri May 13 08:29:47 2016
Response via : Initial Calibration





TIC: J0976753.D\data.ms

(37) Carbon Tetrachloride ( )

6.935min (+0.001) 1.17ug/L m

response 9933

Ion	Exp%	Act%
116.90	100	100
118.90	97.10	94.70
120.90	31.20	29.89
82.00	25.70	67.88#

SGS ACCUTEST FA34224

Manual Integrations APPROVED (compounds with "m" flag)
Melissa Mangual 05/25/16 12:38

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\052416\
Data File : J0976754.D
Acq On : 24 May 2016 10:56 am
Operator : DARSHNAP
Sample : ic5312-2 Inst : MSVOA6
Misc : MS33959,VJ5312,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 24 12:42:41 2016
Quant Method : C:\msdchem\2\methods\MSJ052316a.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	1102902	50.00	ug/L	0.00
56) Chlorobenzene-d5	10.846	117	898361	50.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	13.207	152	481043	50.00	ug/L	0.00
106) Tert Butyl Alcohol-d10	5.298	65	73257	250.00	ug/L	0.00
System Monitoring Compounds						
36) Dibromofluoromethane	6.928	113	280273	50.72	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 101.44%			
46) 1,2-Dichloroethane-d4	7.482	65	329939	51.07	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 102.14%			
57) Toluene-d8	9.301	98	1157951	50.05	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 100.10%			
79) 4-Bromofluorobenzene	12.051	95	452777	51.62	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 103.24%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.700	85	46151	10.96	ug/L	99
3) Chloromethane	2.883	50	51755	9.43	ug/L	95
4) Vinyl Chloride	3.029	62	54623	8.80	ug/L	88
5) 1,3-Butadiene	3.035	54	19710	Below Cal #		83
6) Bromomethane	3.455	94	40725	9.93	ug/L	94
7) Chloroethane	3.625	64	28757	8.85	ug/L	90
8) Trichlorofluoromethane	3.832	101	66363m	8.41	ug/L	
9) Ethyl Ether	4.118	59	21660	4.91	ug/L	89
10) 1,2-Dichlorotrifluoroe...	4.361	67	35803	5.32	ug/L	89
11) 1,1-Dichloroethene	4.404	61	43738	5.44	ug/L	96
12) Freon 113	4.471	101	31295	5.61	ug/L	96
13) Carbon Disulfide	4.483	76	98896	5.51	ug/L	99
14) Iodomethane	4.586	142	48552	5.46	ug/L	91
15) Allyl chloride	4.927	41	38934	5.76	ug/L	95
16) Methylene Chloride	5.048	49	45086	5.98	ug/L	95
17) Acetone	5.073	58	10976	32.39	ug/L	87
18) Methyl acetate	5.194	74	15055	23.62	ug/L #	80
19) trans-1,2-Dichloroethene	5.237	61	39780	5.32	ug/L	93
20) Hexane	5.304	56	26666	5.10	ug/L	90
21) Methyl Tert Butyl Ether	5.334	73	73931	4.57	ug/L	80
22) Acetonitrile	5.602	40	13260	64.69	ug/L #	57
23) Di-isopropyl ether	5.712	45	81399	4.54	ug/L	91
24) Chloroprene	5.876	53	39776	5.75	ug/L	94
25) 1,1-Dichloroethane	5.900	63	53602	5.23	ug/L	99
26) Acrylonitrile	5.931	53	40951	30.50	ug/L	87
27) ETBE	6.113	59	83931	4.58	ug/L	95
28) Vinyl acetate	6.113	43	251810	30.54	ug/L	98
29) cis-1,2-Dichloroethene	6.478	96	32531	5.06	ug/L	83
30) 2,2-Dichloropropane	6.606	77	43955	5.19	ug/L	96
31) Bromochloromethane	6.685	128	15021	4.93	ug/L	88
32) Cyclohexane	6.734	56	46309	4.88	ug/L	94
33) Chloroform	6.740	83	56886	5.06	ug/L	98
34) Ethyl acetate	6.813	43	90573	29.60	ug/L	99

SGS ACCUTEST FA34224

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\052416\
Data File : J0976754.D
Acq On : 24 May 2016 10:56 am
Operator : DARSHNAP
Sample : ic5312-2 Inst : MSVOA6
Misc : MS33959,VJ5312,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 24 12:42:41 2016
Quant Method : C:\msdchem\2\methods\MSJ052316a.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	5142	5.56	ug/L		81
37) Carbon Tetrachloride	6.934	117	43509m	5.05	ug/L		
38) 1,1,1-Trichloroethane	6.995	97	49649	5.00	ug/L		92
39) 2-Butanone	7.032	43	36057	24.50	ug/L		93
40) 1,1-Dichloropropene	7.105	75	37329	4.83	ug/L		96
41) tert-Butyl Formate	7.190	59	156701	42.78	ug/L	#	79
42) Propionitrile	7.336	54	28844	58.72	ug/L		87
43) Methacrylonitrile	7.360	41	138341	67.59	ug/L		96
44) Benzene	7.360	78	121494	4.80	ug/L		98
45) TAME	7.433	73	77893	4.60	ug/L		92
47) 1,2-Dichloroethane	7.555	62	40845	4.98	ug/L		98
48) Trichloroethene	7.938	95	29772	4.75	ug/L		97
49) Methylcyclohexane	7.956	83	52321	4.90	ug/L		98
50) Dibromomethane	8.364	93	16493	4.76	ug/L		92
51) 1,2-Dichloropropane	8.449	63	29125	4.77	ug/L		94
52) Bromodichloromethane	8.498	83	38321	4.73	ug/L		97
53) Methyl methacrylate	8.601	41	13065	4.37	ug/L		94
54) 2-Chloroethyl vinyl ether	9.015	63	58925	19.55	ug/L		98
55) cis-1,3-Dichloropropene	9.106	75	40931	4.43	ug/L		90
58) Toluene	9.356	91	134637	4.85	ug/L		100
59) 2-Nitropropane	9.556	41	20956	20.84	ug/L	#	80
60) 4-Methyl-2-pentanone	9.672	43	77426	18.70	ug/L		96
61) trans-1,3-Dichloropropene	9.745	75	35341	4.30	ug/L		97
62) Tetrachloroethene	9.757	166	32545	4.84	ug/L		95
63) Ethyl methacrylate	9.842	69	24596	4.13	ug/L		96
64) 1,1,2-Trichloroethane	9.903	83	21218	4.73	ug/L		95
65) Dibromochloromethane	10.104	129	25225	4.27	ug/L		93
66) 1,3-Dichloropropane	10.183	76	41195	4.50	ug/L		97
67) 1,2-Dibromoethane	10.366	107	22117	4.37	ug/L		97
68) 2-hexanone	10.493	43	52971	19.74	ug/L		96
69) 1-Chlorohexane	10.797	91	33885	4.24	ug/L		85
70) Ethylbenzene	10.864	91	152849	4.57	ug/L		95
71) Chlorobenzene	10.864	112	87374	4.61	ug/L		91
72) 1,1,1,2-Tetrachloroethane	10.913	131	27978	4.59	ug/L		90
73) m,p-Xylene	10.998	91	222309	8.56	ug/L		94
74) o-Xylene	11.436	91	103815	4.31	ug/L		93
75) Styrene	11.491	104	73435	3.95	ug/L		97
76) Bromoform	11.546	173	15526	4.11	ug/L		98
77) Isopropylbenzene	11.740	105	120930	3.95	ug/L		94
80) cis-1,4-Dichloro-2-butene	12.087	53	5155	3.53	ug/L	#	83
81) n-Propylbenzene	12.160	91	161236	4.36	ug/L		92
82) Bromobenzene	12.185	156	37679	4.70	ug/L		94
83) 1,1,2,2-Tetrachloroethane	12.221	83	31899	4.94	ug/L		94
84) 1,3,5-Trimethylbenzene	12.343	105	112083	4.12	ug/L		98
85) 2-Chlorotoluene	12.355	91	119502	4.62	ug/L		98
86) trans-1,4-Dichloro-2-B...	12.410	53	4418	3.18	ug/L	#	49
87) 1,2,3-Trichloropropane	12.385	110	8304	4.88	ug/L		86
88) Cyclohexanone	12.446	55	4261	29.15	ug/L		84
89) 4-Chlorotoluene	12.519	91	99711	4.22	ug/L		95
90) a-Methyl Styrene	12.610	118	54814	4.16	ug/L		97

SGS ACCUTEST FA34224

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\052416\
Data File : J0976754.D
Acq On : 24 May 2016 10:56 am
Operator : DARSHNAP
Sample : ic5312-2 Inst : MSVOA6
Misc : MS33959,VJ5312,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 24 12:42:41 2016
Quant Method : C:\msdchem\2\methods\MSJ052316a.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	66850	4.53	ug/L	95
92) 1,2,4-Trimethylbenzene	12.750	105	116295	4.27	ug/L	99
93) Pentachloroethane	12.738	167	23909	5.06	ug/L	90
94) sec-Butylbenzene	12.866	105	138725	4.22	ug/L	96
95) 4-Isopropyltoluene	13.000	119	115980	4.61	ug/L	99
96) 1,3-Dichlorobenzene	13.134	146	65451	4.63	ug/L	95
97) 1,4-Dichlorobenzene	13.219	146	70021	4.74	ug/L	93
98) n-Butylbenzene	13.432	92	61306	4.25	ug/L	97
99) Benzyl Chloride	13.444	126	7746	3.43	ug/L #	1
100) 1,2-Dichlorobenzene	13.645	146	59870	4.54	ug/L	94
101) 1,2-Dibromo-3-Chloropr...	14.381	75	3627	4.39	ug/L #	66
102) Hexachlorobutadiene	14.928	225	26460	4.86	ug/L	94
103) 1,2,4-Trichlorobenzene	14.977	180	37850	4.27	ug/L	95
104) Naphthalene	15.257	128	43594	3.39	ug/L	100
105) 1,2,3-Trichlorobenzene	15.427	180	31855	4.35	ug/L	98
107) Ethanol	4.288	45	4586m	126.60	ug/L	
108) acrolein	4.763	56	15228	22.05	ug/L	93
109) Tert Butyl Alcohol	5.389	59	19350	51.11	ug/L	83
110) tert Amyl alcohol	7.579	59	12998	42.87	ug/L	92
111) Isobutyl alcohol	7.458	42	12795	93.26	ug/L	94
112) 1,4-Dioxane	8.674	88	3265	76.50	ug/L	84
113) 3,3-Dimethyl-1-butanol	10.439	57	46986	141.55	ug/L	96

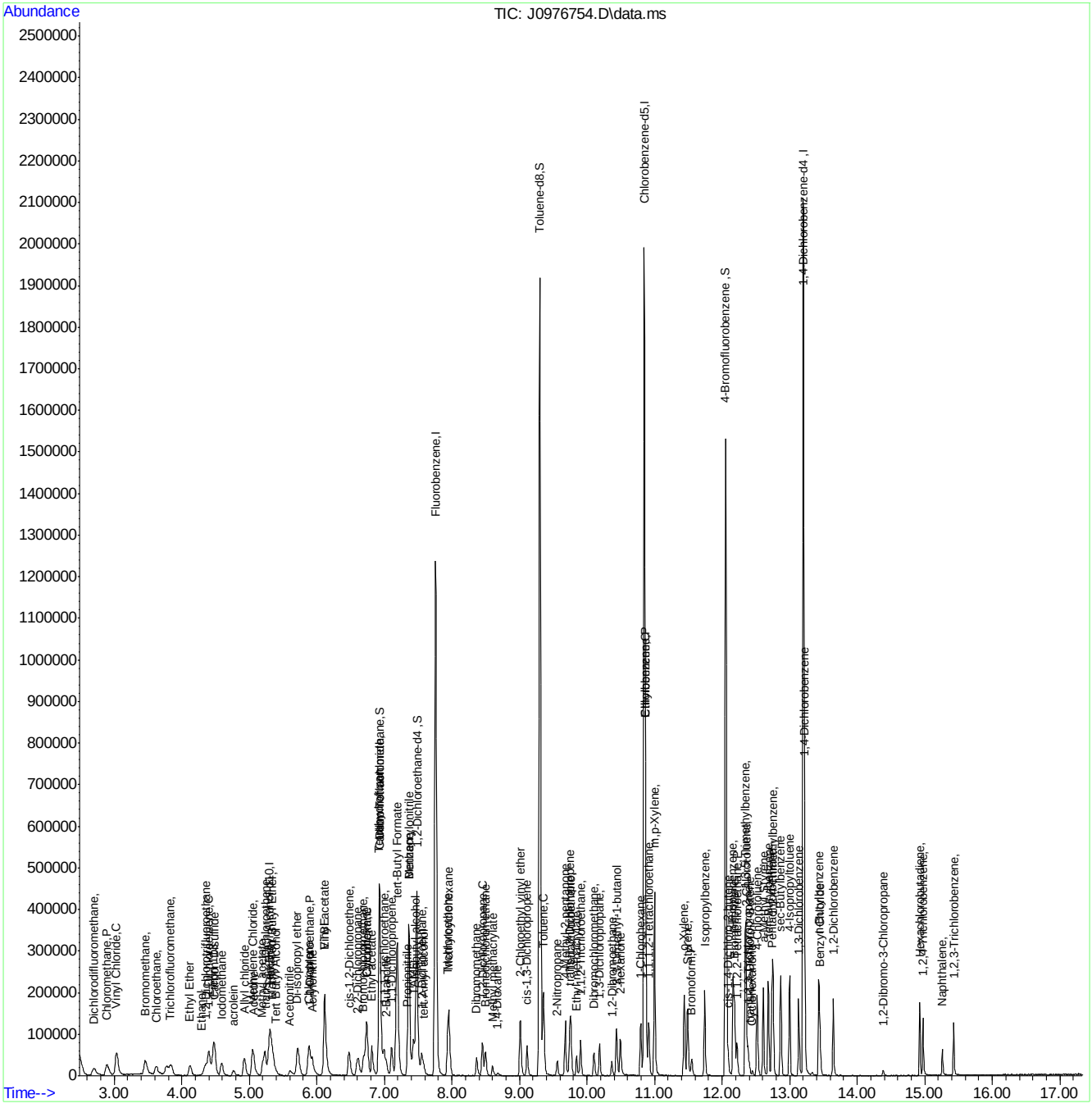
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST FA34224

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\052416\
Data File : J0976754.D
Acq On : 24 May 2016 10:56 am
Operator : DARSHNAP
Sample : ic5312-2 Inst : MSVOA6
Misc : MS33959,VJ5312,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 24 12:42:41 2016
Quant Method : C:\msdchem\2\methods\MSJ052316a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri May 13 08:29:47 2016
Response via : Initial Calibration



MSJ052316a.M Wed May 25 08:16:08 2016 Page: 4

Manual Integration Approval Summary

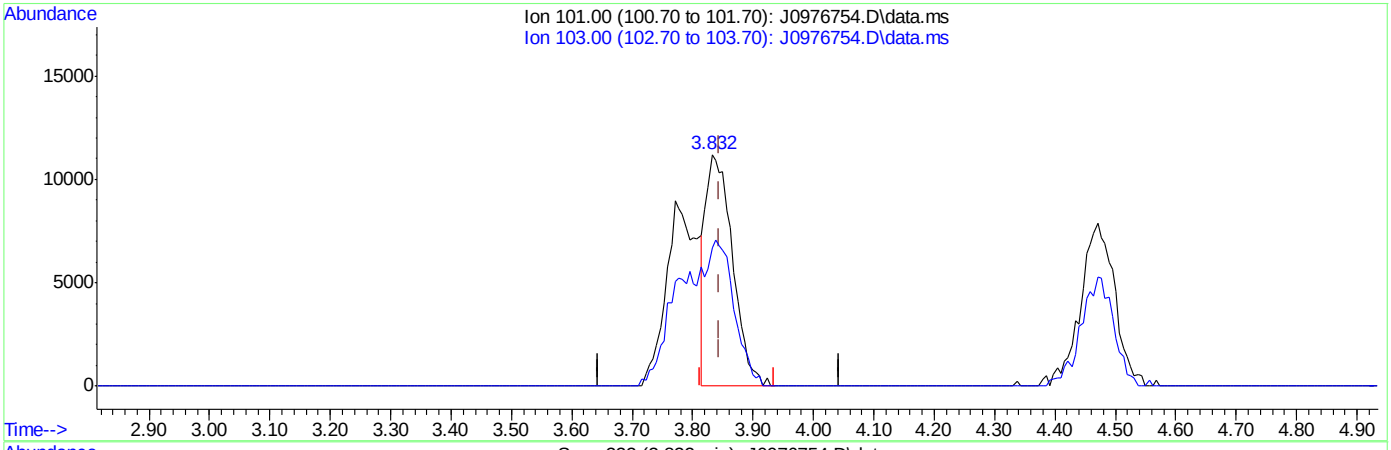
Sample Number:	VJ5312-IC5312	**Method:**	SW846 8260B
Lab FileID:	J0976754.D	**Analyst approved:**	05/25/16 11:19 Darshna Patel
Injection Time:	05/24/16 10:56	**Supervisor approved:**	05/25/16 12:38 Melissa Mangual

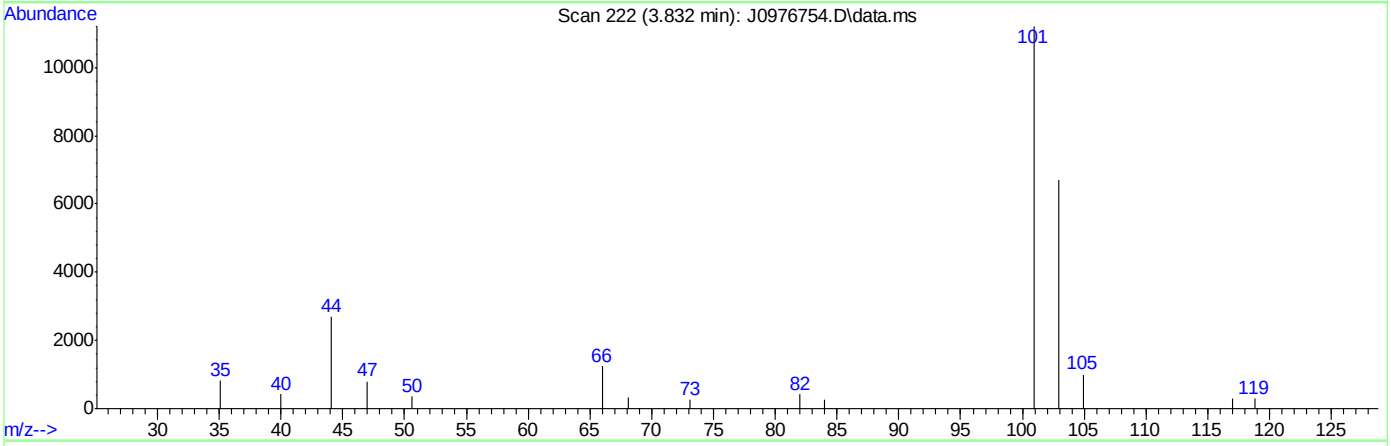
Parameter	CAS	Sig#	R.T. (min.)	Reason
Trichlorofluoromethane	75-69-4		3.83	Split peak
Ethyl Alcohol	64-17-5		4.29	Poor instrument integration
Carbon Tetrachloride	56-23-5		6.93	Overlapping peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\052416\
Data File : J0976754.D
Acq On : 24 May 2016 10:56 am
Operator : DARSHNAP
Sample : ic5312-2 Inst : MSVOA6
Misc : MS33959,VJ5312,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 24 12:40:53 2016
Quant Method : C:\msdchem\2\methods\MSJ052316a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri May 13 08:29:47 2016
Response via : Initial Calibration





TIC: J0976754.D\data.ms

(8) Trichlorofluoromethane ( )

3.832min (-0.012) 4.40ug/L

response 34751

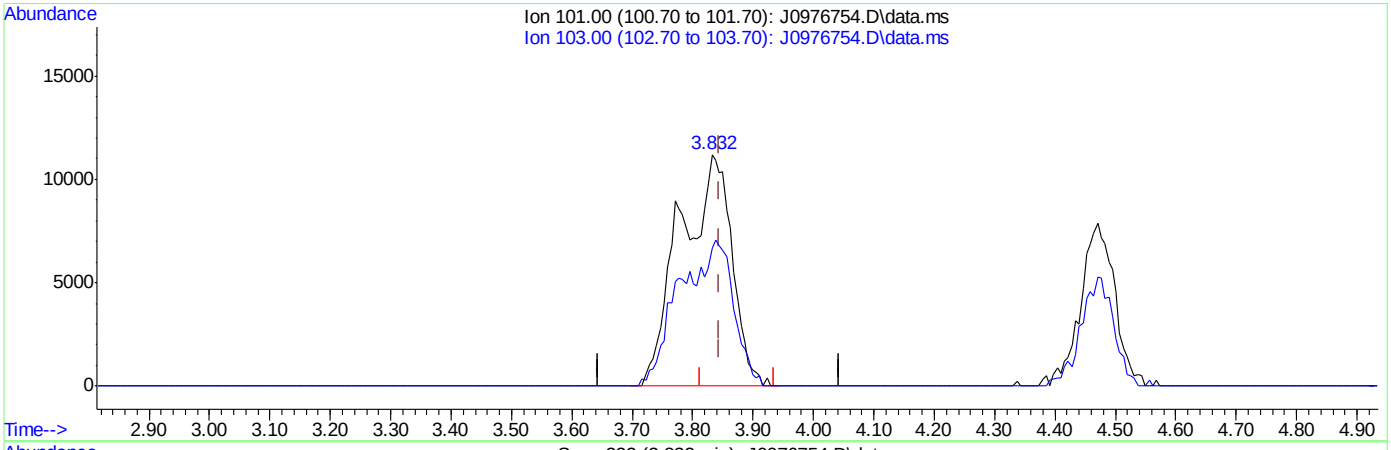
Ion	Exp%	Act%
101.00	100	100
103.00	59.70	59.91
0.00	0.00	0.00
0.00	0.00	0.00

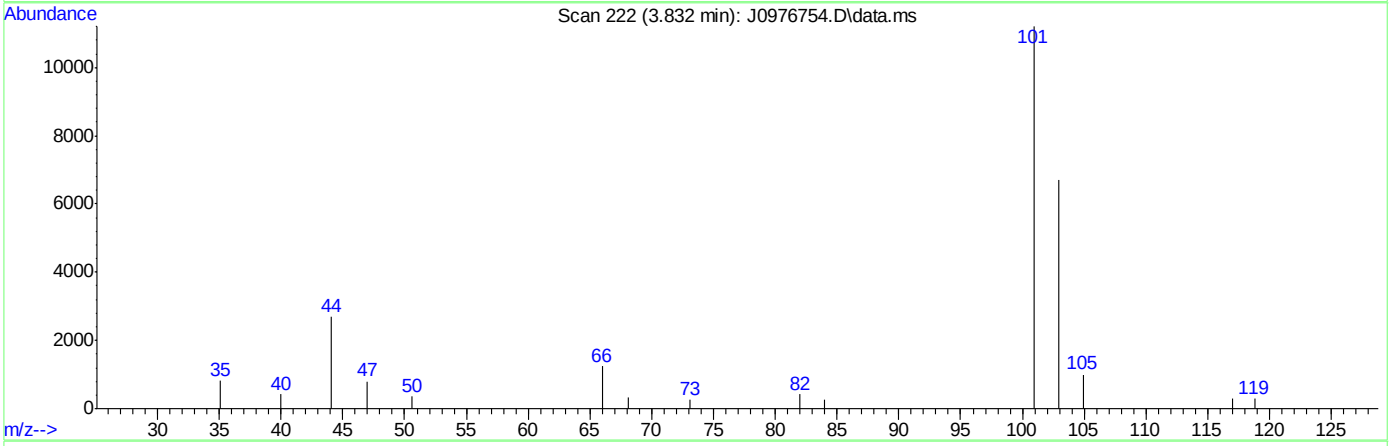
SGS ACCUTEST FA34224

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\052416\
Data File : J0976754.D
Acq On : 24 May 2016 10:56 am
Operator : DARSHNAP
Sample : ic5312-2 Inst : MSVOA6
Misc : MS33959,VJ5312,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 24 12:40:53 2016
Quant Method : C:\msdchem\2\methods\MSJ052316a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri May 13 08:29:47 2016
Response via : Initial Calibration





TIC: J0976754.D\data.ms

(8) Trichlorofluoromethane ( )

3.832min (-0.012) 8.41ug/L m

response 66363

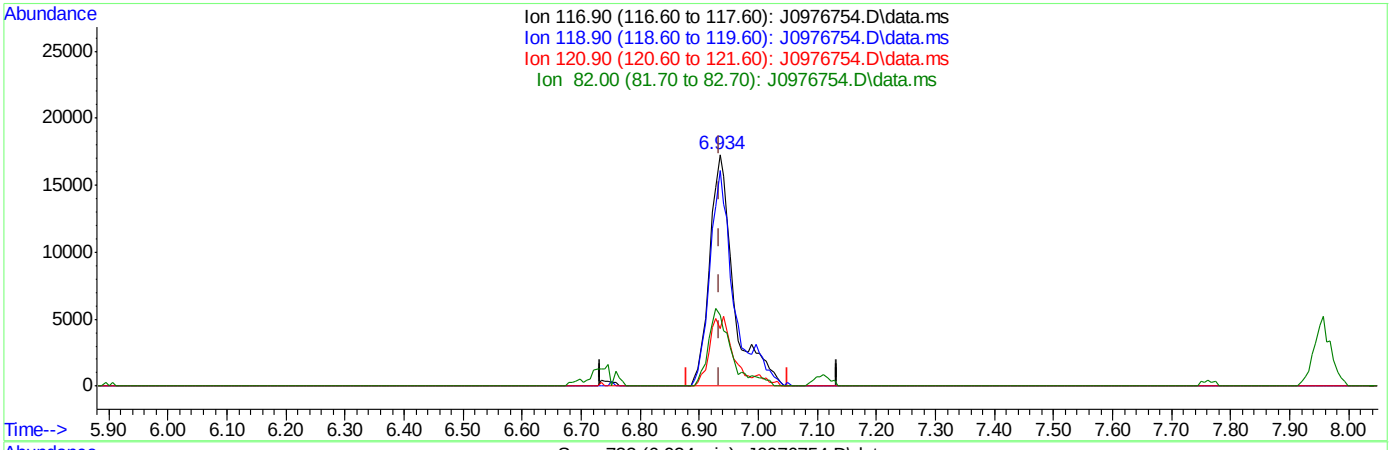
Ion	Exp%	Act%
101.00	100	100
103.00	59.70	59.91
0.00	0.00	0.00
0.00	0.00	0.00

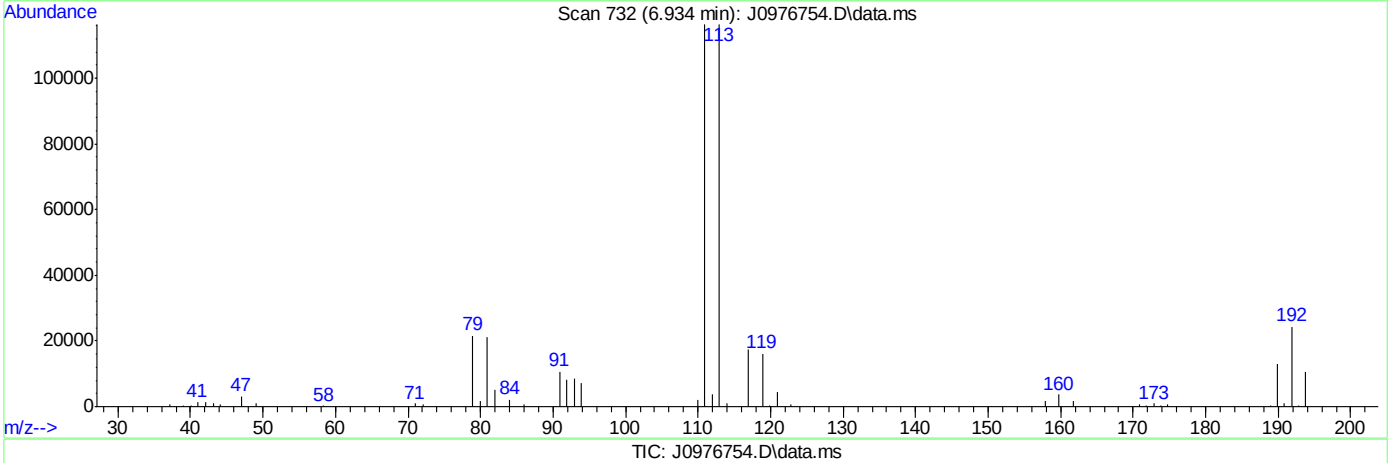
SGS ACCUTEST FA34224

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\052416\
Data File : J0976754.D
Acq On : 24 May 2016 10:56 am
Operator : DARSHNAP
Sample : ic5312-2 Inst : MSVOA6
Misc : MS33959,VJ5312,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 24 12:40:53 2016
Quant Method : C:\msdchem\2\methods\MSJ052316a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri May 13 08:29:47 2016
Response via : Initial Calibration





TIC: J0976754.D\data.ms

(37) Carbon Tetrachloride ( )

6.934min (+0.000) 5.69ug/L

response 49020

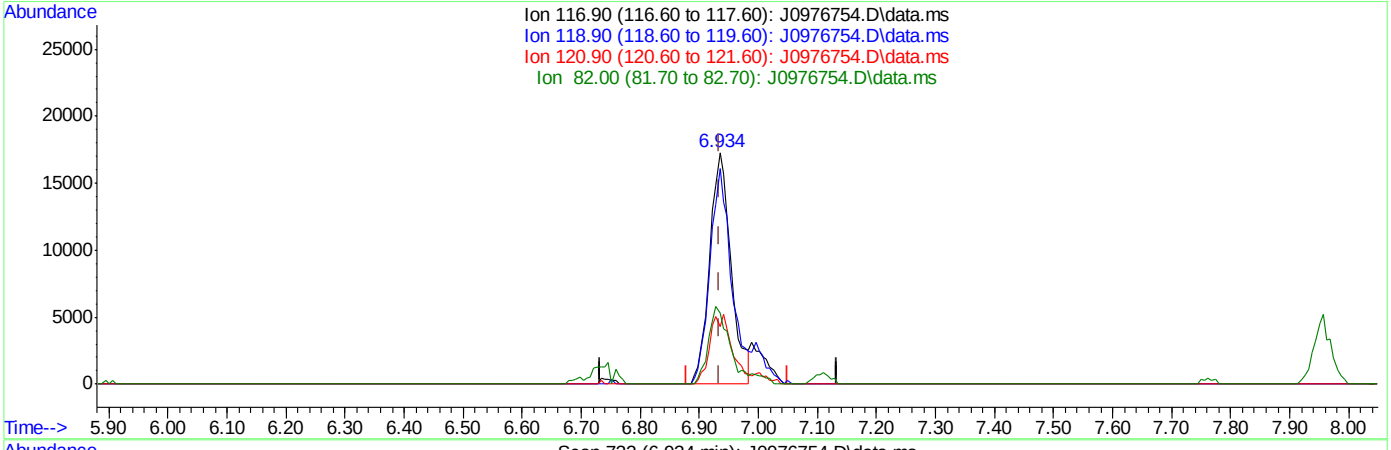
Ion	Exp%	Act%
116.90	100	100
118.90	97.10	92.85
120.90	31.20	24.99
82.00	25.70	30.42

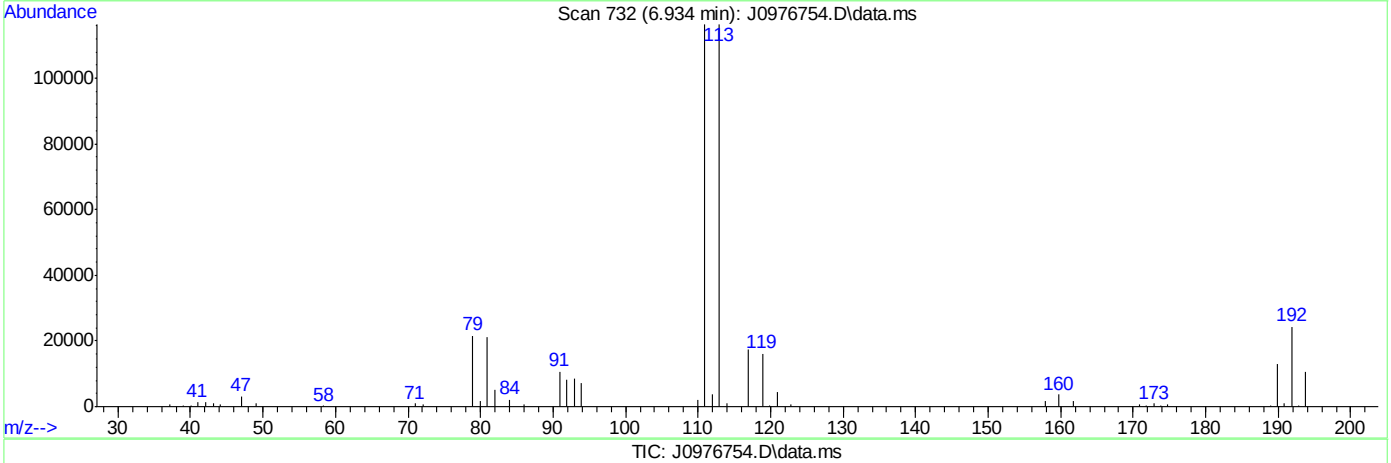
SGS ACCUTEST FA34224

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\052416\
Data File : J0976754.D
Acq On : 24 May 2016 10:56 am
Operator : DARSHNAP
Sample : ic5312-2 Inst : MSVOA6
Misc : MS33959,VJ5312,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 24 12:40:53 2016
Quant Method : C:\msdchem\2\methods\MSJ052316a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri May 13 08:29:47 2016
Response via : Initial Calibration





TIC: J0976754.D\data.ms

(37) Carbon Tetrachloride ( )

6.934min (+0.000) 5.05ug/L m

response 43509

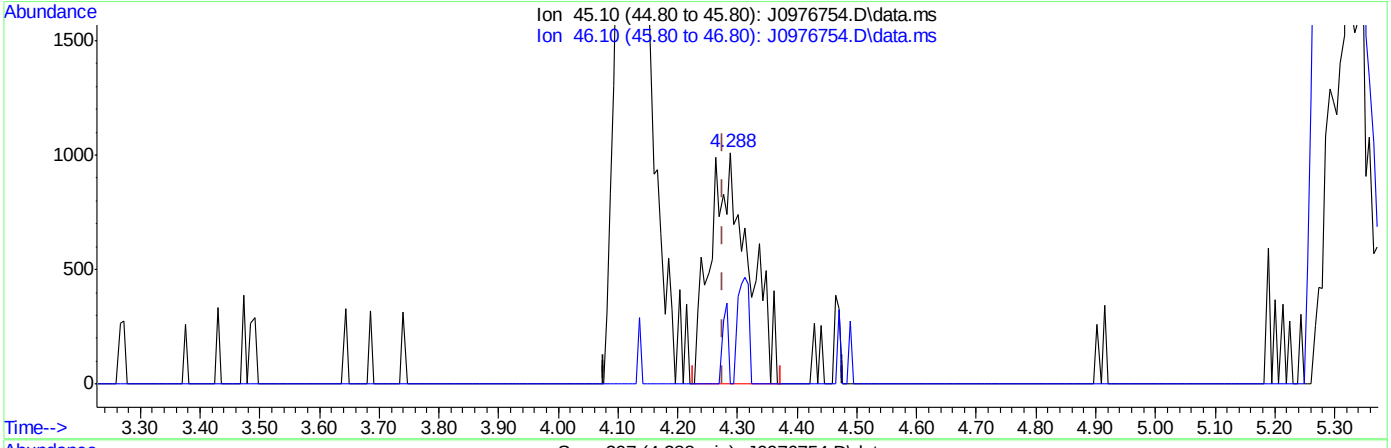
Ion	Exp%	Act%
116.90	100	100
118.90	97.10	92.85
120.90	31.20	24.99
82.00	25.70	30.42

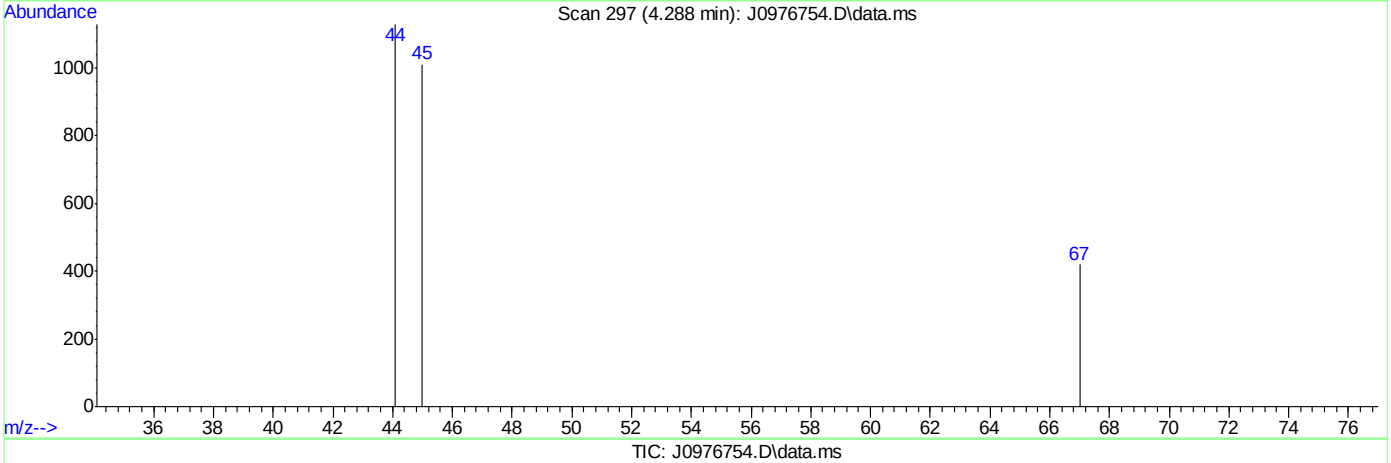
SGS ACCUTEST FA34224

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\052416\
Data File : J0976754.D
Acq On : 24 May 2016 10:56 am
Operator : DARSHNAP
Sample : ic5312-2 Inst : MSVOA6
Misc : MS33959,VJ5312,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 24 12:40:53 2016
Quant Method : C:\msdchem\2\methods\MSJ052316a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri May 13 08:29:47 2016
Response via : Initial Calibration





TIC: J0976754.D\data.ms

(107) Ethanol

4.288min (+0.012) 126.60ug/L

response 4586

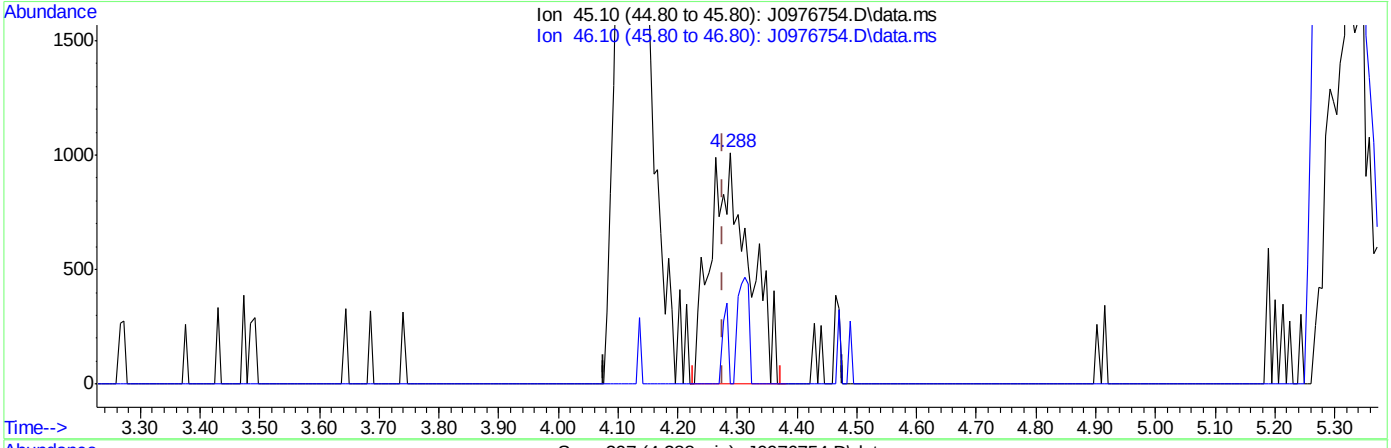
Ion	Exp%	Act%
45.10	100	100
46.10	35.30	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

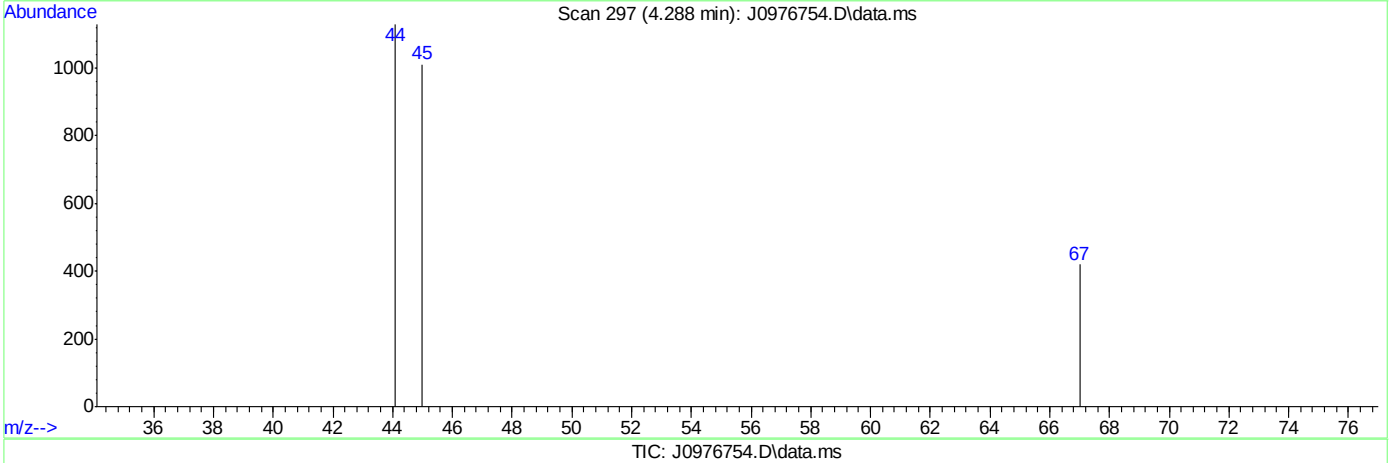
SGS ACCUTEST FA34224

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\052416\
Data File : J0976754.D
Acq On : 24 May 2016 10:56 am
Operator : DARSHNAP
Sample : ic5312-2 Inst : MSVOA6
Misc : MS33959,VJ5312,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 24 12:40:53 2016
Quant Method : C:\msdchem\2\methods\MSJ052316a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri May 13 08:29:47 2016
Response via : Initial Calibration





TIC: J0976754.D\data.ms

(107) Ethanol

4.288min (+0.012) 126.60ug/L m

response 4586

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

SGS ACCUTEST FA34224

Manual Integrations APPROVED (compounds with "m" flag)
Melissa Mangual 05/25/16 12:38

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\052416\
Data File : J0976755.D
Acq On : 24 May 2016 11:18 am
Operator : DARSHNAP
Sample : ic5312-3 Inst : MSVOA6
Misc : MS33959,VJ5312,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 24 12:43:15 2016
Quant Method : C:\msdchem\2\methods\MSJ052316a.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	1149224	50.00	ug/L	0.00
56) Chlorobenzene-d5	10.846	117	934306	50.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	13.201	152	517113	50.00	ug/L	0.00
106) Tert Butyl Alcohol-d10	5.298	65	73648	250.00	ug/L	0.00
System Monitoring Compounds						
36) Dibromofluoromethane	6.928	113	287047	49.85	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 99.70%			
46) 1,2-Dichloroethane-d4	7.482	65	335454	49.83	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 99.66%			
57) Toluene-d8	9.301	98	1191438	49.51	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 99.02%			
79) 4-Bromofluorobenzene	12.051	95	485450	51.49	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 102.98%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.700	85	74436	16.82	ug/L	92
3) Chloromethane	2.889	50	87387	15.15	ug/L	89
4) Vinyl Chloride	3.035	62	90370	13.98	ug/L	97
5) 1,3-Butadiene	3.035	54	41357	Below Cal #		89
6) Bromomethane	3.461	94	63641	15.13	ug/L	96
7) Chloroethane	3.625	64	46294	14.15	ug/L	98
8) Trichlorofluoromethane	3.844	101	112127m	13.63	ug/L	
9) Ethyl Ether	4.118	59	45406	9.89	ug/L	100
10) 1,2-Dichlorotrifluoroe...	4.361	67	74116	10.56	ug/L	96
11) 1,1-Dichloroethene	4.404	61	93250	11.10	ug/L	97
12) Freon 113	4.471	101	65899	11.30	ug/L	89
13) Carbon Disulfide	4.483	76	207296	11.04	ug/L	99
14) Iodomethane	4.586	142	100045	10.75	ug/L	97
15) Allyl chloride	4.921	41	83568	11.76	ug/L	96
16) Methylene Chloride	5.049	49	86642	11.06	ug/L	95
17) Acetone	5.073	58	20073	56.85	ug/L	99
18) Methyl acetate	5.201	74	31193	46.96	ug/L #	84
19) trans-1,2-Dichloroethene	5.231	61	80833	10.37	ug/L	97
20) Hexane	5.304	56	57736	10.59	ug/L	97
21) Methyl Tert Butyl Ether	5.341	73	154930	9.20	ug/L	92
22) Acetonitrile	5.590	40	27269	127.22	ug/L #	82
23) Di-isopropyl ether	5.718	45	175580	9.40	ug/L	96
24) Chloroprene	5.870	53	84603	11.58	ug/L	95
25) 1,1-Dichloroethane	5.900	63	110846	10.41	ug/L	98
26) Acrylonitrile	5.937	53	75770	54.16	ug/L	92
27) ETBE	6.119	59	183648	9.61	ug/L	98
28) Vinyl acetate	6.113	43	486977	56.67	ug/L	100
29) cis-1,2-Dichloroethene	6.478	96	68375	10.19	ug/L	94
30) 2,2-Dichloropropane	6.606	77	88255	10.01	ug/L	99
31) Bromochloromethane	6.691	128	30731	9.68	ug/L	93
32) Cyclohexane	6.734	56	102331	10.34	ug/L	96
33) Chloroform	6.740	83	116897	10.00	ug/L	99
34) Ethyl acetate	6.813	43	169457	53.14	ug/L	97

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\052416\
Data File : J0976755.D
Acq On : 24 May 2016 11:18 am
Operator : DARSHNAP
Sample : ic5312-3 Inst : MSVOA6
Misc : MS33959,VJ5312,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 24 12:43:15 2016
Quant Method : C:\msdchem\2\methods\MSJ052316a.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	10667	11.05 ug/L	89
37) Carbon Tetrachloride	6.934	117	90053m	10.04 ug/L	
38) 1,1,1-Trichloroethane	6.995	97	103881	10.05 ug/L	93
39) 2-Butanone	7.026	43	73135	47.86 ug/L	96
40) 1,1-Dichloropropene	7.111	75	82340	10.23 ug/L	96
41) tert-Butyl Formate	7.184	59	441520	115.69 ug/L	93
42) Propionitrile	7.336	54	56968	111.30 ug/L	87
43) Methacrylonitrile	7.360	41	253982	119.09 ug/L	98
44) Benzene	7.360	78	259587	9.89 ug/L	95
45) TAME	7.433	73	163156	9.24 ug/L	95
47) 1,2-Dichloroethane	7.549	62	81859	9.64 ug/L	96
48) Trichloroethene	7.938	95	64555	9.91 ug/L	95
49) Methylcyclohexane	7.957	83	115381	10.38 ug/L	93
50) Dibromomethane	8.364	93	35001	9.70 ug/L	95
51) 1,2-Dichloropropane	8.449	63	60519	9.53 ug/L	94
52) Bromodichloromethane	8.492	83	80721	9.60 ug/L	93
53) Methyl methacrylate	8.595	41	29233	9.37 ug/L	98
54) 2-Chloroethyl vinyl ether	9.009	63	162204	51.83 ug/L	98
55) cis-1,3-Dichloropropene	9.112	75	90612	9.41 ug/L	97
58) Toluene	9.356	91	285056	9.94 ug/L	96
59) 2-Nitropropane	9.556	41	43639	41.88 ug/L	90
60) 4-Methyl-2-pentanone	9.672	43	188444	44.17 ug/L	98
61) trans-1,3-Dichloropropene	9.739	75	75872	8.88 ug/L	96
62) Tetrachloroethene	9.757	166	66794	9.55 ug/L	91
63) Ethyl methacrylate	9.842	69	56970	9.15 ug/L	94
64) 1,1,2-Trichloroethane	9.903	83	44549	9.59 ug/L	93
65) Dibromochloromethane	10.104	129	53344	8.69 ug/L	96
66) 1,3-Dichloropropane	10.183	76	86979	9.18 ug/L	94
67) 1,2-Dibromoethane	10.366	107	46840	8.90 ug/L	94
68) 2-hexanone	10.493	43	126441	45.31 ug/L	98
69) 1-Chlorohexane	10.798	91	81169	9.77 ug/L	97
70) Ethylbenzene	10.858	91	323843	9.41 ug/L	97
71) Chlorobenzene	10.864	112	185266	9.46 ug/L	95
72) 1,1,1,2-Tetrachloroethane	10.913	131	58699	9.26 ug/L	97
73) m,p-Xylene	10.998	91	499595	18.78 ug/L	94
74) o-Xylene	11.436	91	235604	9.39 ug/L	93
75) Styrene	11.485	104	175654	9.08 ug/L	96
76) Bromoform	11.546	173	32320	8.21 ug/L	96
77) Isopropylbenzene	11.741	105	284787	9.01 ug/L	95
80) cis-1,4-Dichloro-2-butene	12.087	53	12753	8.12 ug/L	90
81) n-Propylbenzene	12.160	91	361381	9.21 ug/L	96
82) Bromobenzene	12.185	156	80249	9.35 ug/L	99
83) 1,1,2,2-Tetrachloroethane	12.221	83	65204	9.44 ug/L	98
84) 1,3,5-Trimethylbenzene	12.343	105	259445	8.94 ug/L	96
85) 2-Chlorotoluene	12.349	91	258410	9.38 ug/L	97
86) trans-1,4-Dichloro-2-B...	12.398	53	11751	7.86 ug/L #	77
87) 1,2,3-Trichloropropane	12.379	110	15822	8.68 ug/L	92
88) Cyclohexanone	12.446	55	8160	51.90 ug/L	94
89) 4-Chlorotoluene	12.519	91	224709	8.91 ug/L	100
90) a-Methyl Styrene	12.610	118	134335	9.47 ug/L	99

SGS ACCUTEST FA34224

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\052416\
Data File : J0976755.D
Acq On : 24 May 2016 11:18 am
Operator : DARSHNAP
Sample : ic5312-3 Inst : MSVOA6
Misc : MS33959,VJ5312,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 24 12:43:15 2016
Quant Method : C:\msdchem\2\methods\MSJ052316a.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	151672	9.61	ug/L	97
92) 1,2,4-Trimethylbenzene	12.750	105	262743	9.06	ug/L	100
93) Pentachloroethane	12.738	167	50753	9.96	ug/L	93
94) sec-Butylbenzene	12.866	105	324544	9.28	ug/L	97
95) 4-Isopropyltoluene	13.000	119	270750	10.01	ug/L	95
96) 1,3-Dichlorobenzene	13.134	146	138890	9.17	ug/L	95
97) 1,4-Dichlorobenzene	13.219	146	148671	9.42	ug/L	94
98) n-Butylbenzene	13.432	92	148099	9.55	ug/L	98
99) Benzyl Chloride	13.450	126	17864	7.36	ug/L #	64
100) 1,2-Dichlorobenzene	13.645	146	128756	9.12	ug/L	97
101) 1,2-Dibromo-3-Chloropr...	14.381	75	7270	8.17	ug/L	93
102) Hexachlorobutadiene	14.928	225	55468	9.44	ug/L	99
103) 1,2,4-Trichlorobenzene	14.977	180	79708	8.38	ug/L	97
104) Naphthalene	15.257	128	102752	7.43	ug/L	97
105) 1,2,3-Trichlorobenzene	15.427	180	69473	8.82	ug/L	97
107) Ethanol	4.276	45	8825	242.32	ug/L	94
108) acrolein	4.757	56	31074	44.75	ug/L	91
109) Tert Butyl Alcohol	5.383	59	37181	98.27	ug/L	94
110) tert Amyl alcohol	7.579	59	26335	86.89	ug/L	88
111) Isobutyl alcohol	7.458	42	27629	203.01	ug/L #	74
112) 1,4-Dioxane	8.680	88	8303	194.72	ug/L	84
113) 3,3-Dimethyl-1-butanol	10.433	57	146450	441.99	ug/L	95

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

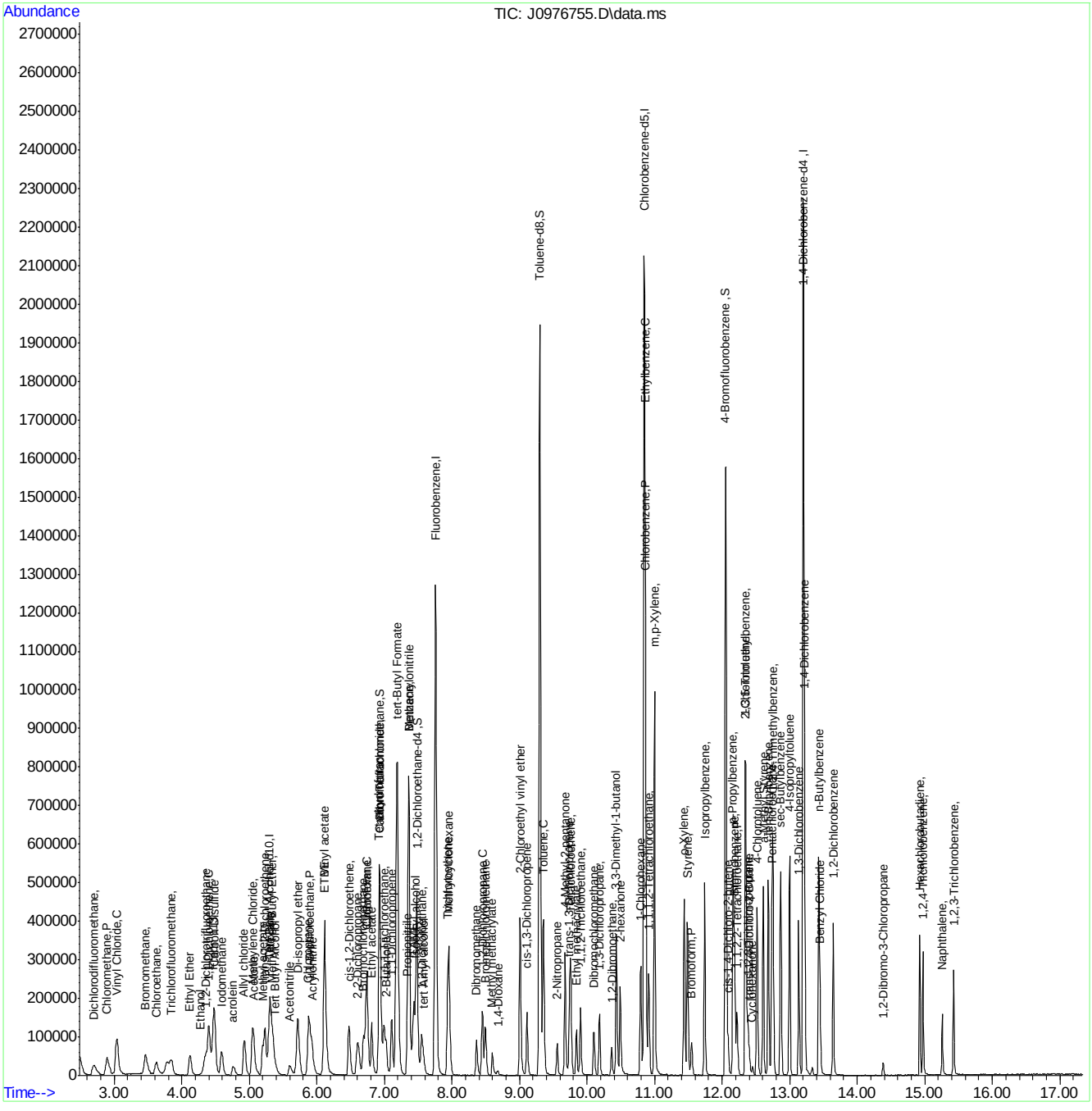
7.6.3

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\052416\
Data File : J0976755.D
Acq On : 24 May 2016 11:18 am
Operator : DARSHNAP
Sample : ic5312-3 Inst : MSVOA6
Misc : MS33959,VJ5312,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 24 12:43:15 2016
Quant Method : C:\msdchem\2\methods\MSJ052316a.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 FA34224

Manual Integration Approval Summary

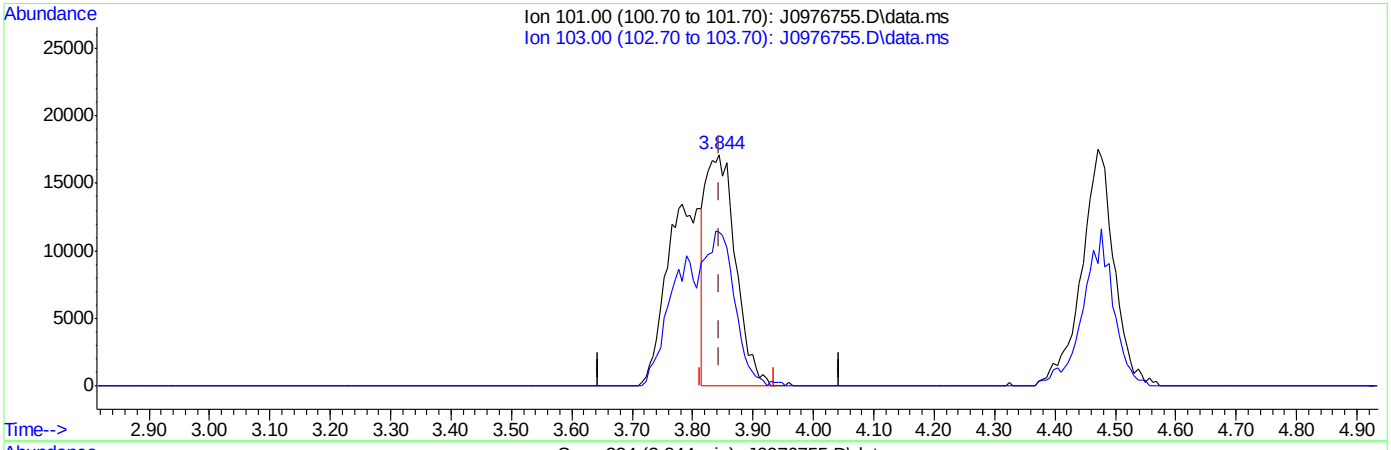
Sample Number:	VJ5312-IC5312	**Method:**	SW846 8260B
Lab FileID:	J0976755.D	**Analyst approved:**	05/25/16 11:19 Darshna Patel
Injection Time:	05/24/16 11:18	**Supervisor approved:**	05/25/16 12:38 Melissa Mangual

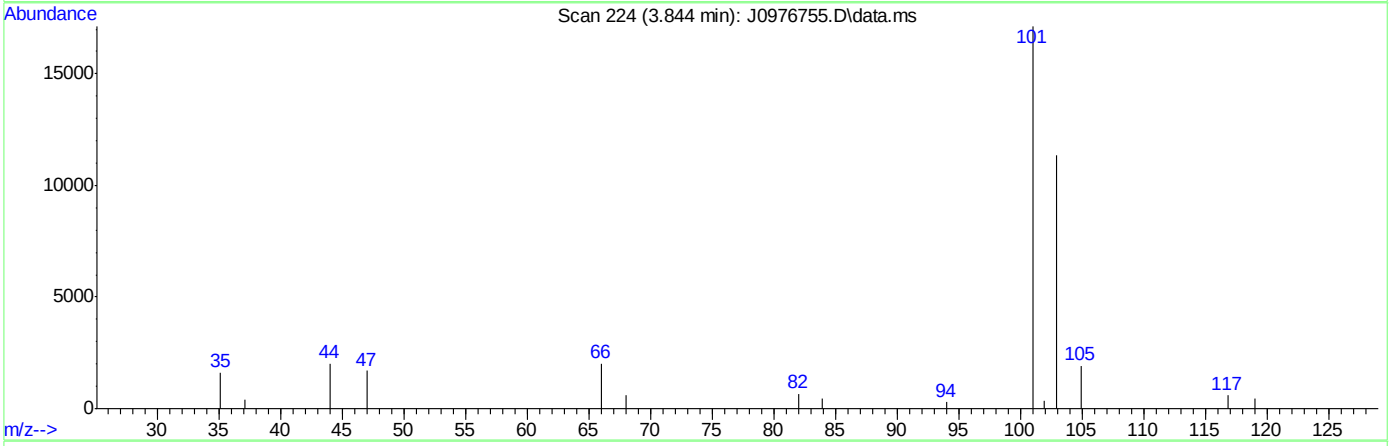
Parameter	CAS	Sig#	R.T. (min.)	Reason
Trichlorofluoromethane	75-69-4		3.84	Split peak
Carbon Tetrachloride	56-23-5		6.93	Overlapping peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\052416\
Data File : J0976755.D
Acq On : 24 May 2016 11:18 am
Operator : DARSHNAP
Sample : ic5312-3 Inst : MSVOA6
Misc : MS33959,VJ5312,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 24 12:40:56 2016
Quant Method : C:\msdchem\2\methods\MSJ052316a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri May 13 08:29:47 2016
Response via : Initial Calibration





TIC: J0976755.D\data.ms

(8) Trichlorofluoromethane ( )

3.844min (+0.000) 7.21ug/L

response 59331

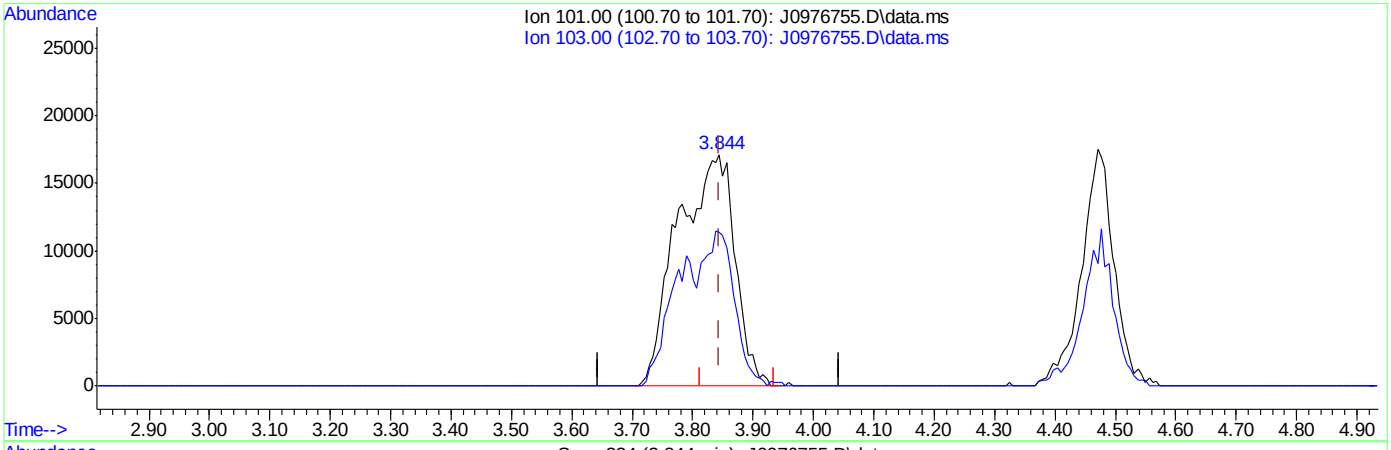
Ion	Exp%	Act%
101.00	100	100
103.00	59.70	64.61
0.00	0.00	0.00
0.00	0.00	0.00

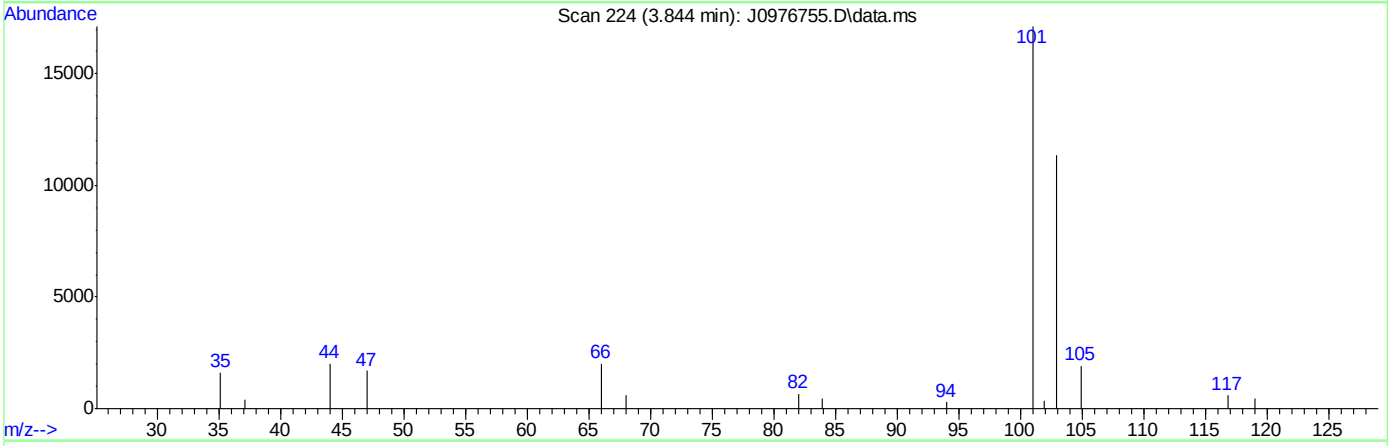
SGS ACCUTEST FA34224

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\052416\
Data File : J0976755.D
Acq On : 24 May 2016 11:18 am
Operator : DARSHNAP
Sample : ic5312-3 Inst : MSVOA6
Misc : MS33959,VJ5312,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 24 12:40:56 2016
Quant Method : C:\msdchem\2\methods\MSJ052316a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri May 13 08:29:47 2016
Response via : Initial Calibration





TIC: J0976755.D\data.ms

(8) Trichlorofluoromethane ( )

3.844min (+0.000) 13.63ug/L m

response 112127

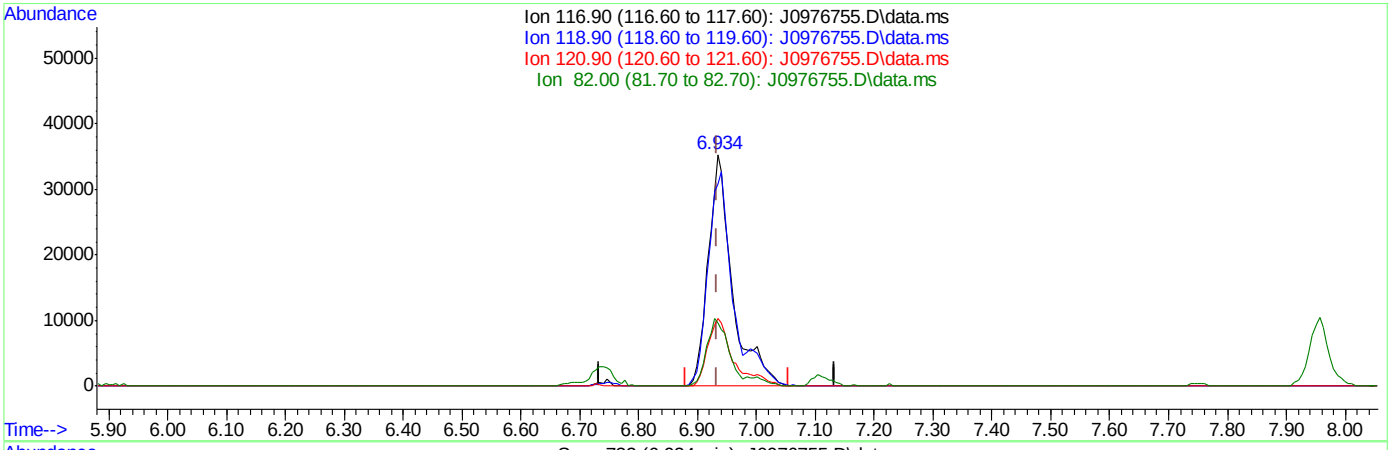
Ion	Exp%	Act%
101.00	100	100
103.00	59.70	66.35
0.00	0.00	0.00
0.00	0.00	0.00

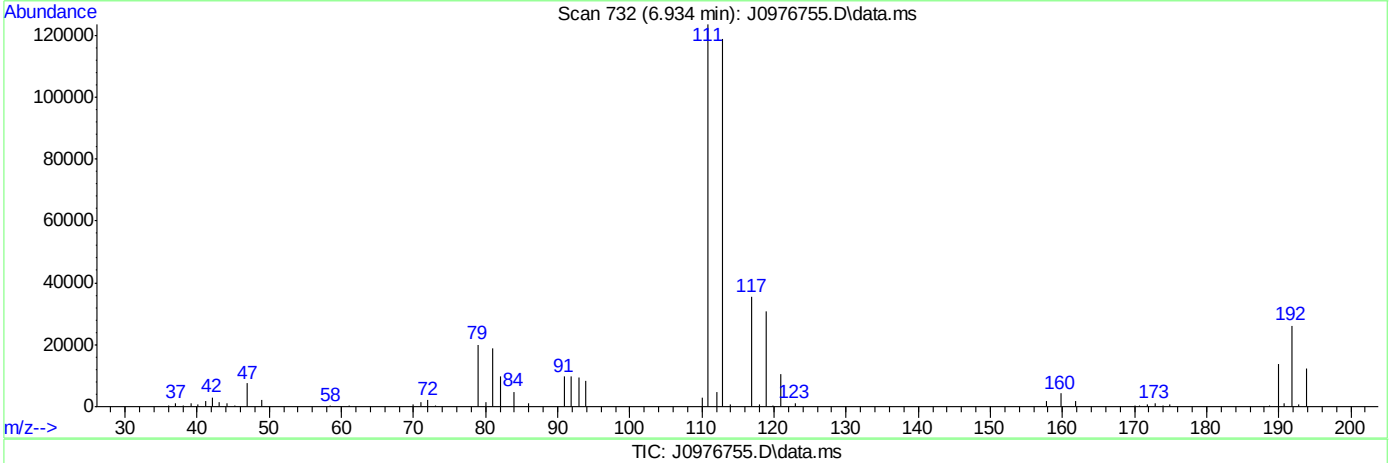
SGS ACCUTEST FA34224

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\052416\
Data File : J0976755.D
Acq On : 24 May 2016 11:18 am
Operator : DARSHNAP
Sample : ic5312-3 Inst : MSVOA6
Misc : MS33959,VJ5312,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 24 12:40:56 2016
Quant Method : C:\msdchem\2\methods\MSJ052316a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri May 13 08:29:47 2016
Response via : Initial Calibration





TIC: J0976755.D\data.ms

(37) Carbon Tetrachloride ( )

6.934min (+0.000) 11.28ug/L

response 101204

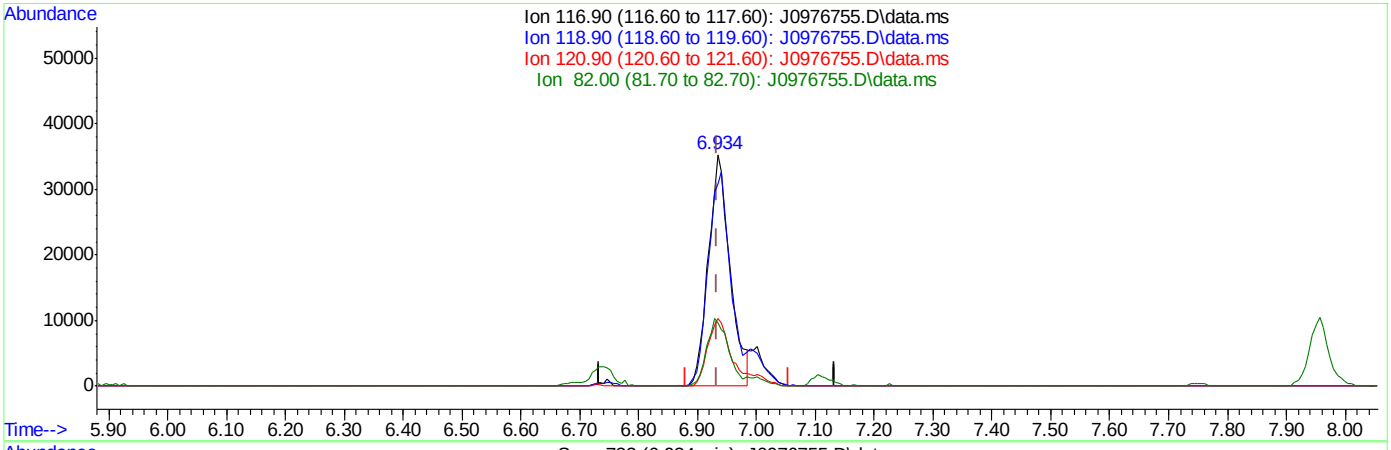
Ion	Exp%	Act%
116.90	100	100
118.90	97.10	87.50
120.90	31.20	29.35
82.00	25.70	27.26

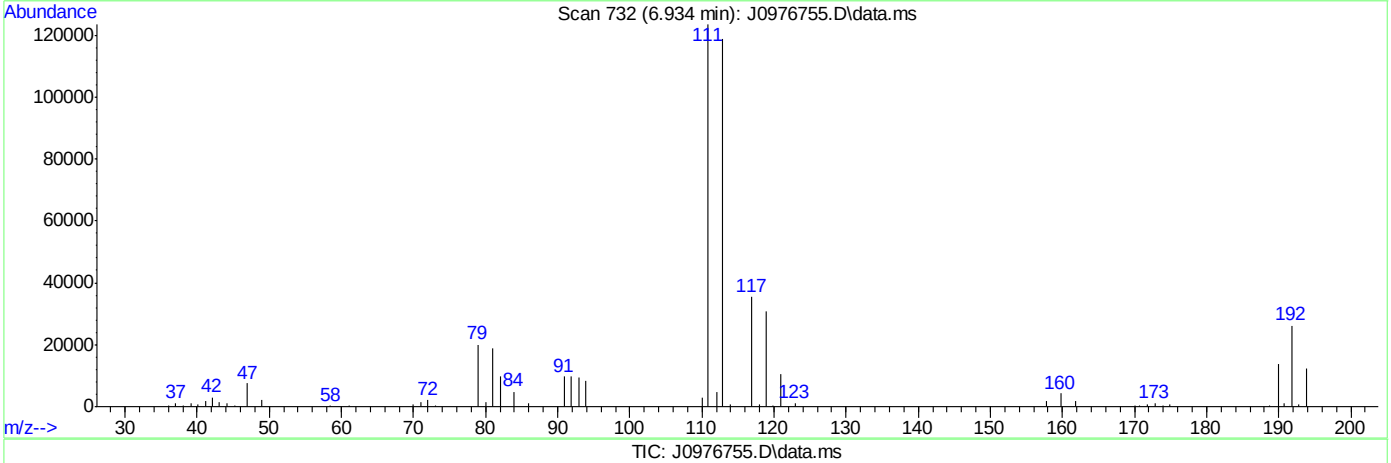
SGS ACCUTEST FA34224

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\052416\
Data File : J0976755.D
Acq On : 24 May 2016 11:18 am
Operator : DARSHNAP
Sample : ic5312-3 Inst : MSVOA6
Misc : MS33959,VJ5312,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 24 12:40:56 2016
Quant Method : C:\msdchem\2\methods\MSJ052316a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri May 13 08:29:47 2016
Response via : Initial Calibration





TIC: J0976755.D\data.ms

(37) Carbon Tetrachloride ( )

6.934min (+0.000) 10.04ug/L m

response 90053

Ion	Exp%	Act%
116.90	100	100
118.90	97.10	87.50
120.90	31.20	29.35
82.00	25.70	27.26

SGS ACCUTEST FA34224

Manual Integrations APPROVED (compounds with "m" flag)
Melissa Mangual 05/25/16 12:38

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\052416\
Data File : J0976756.D
Acq On : 24 May 2016 11:41 am
Operator : DARSHNAP
Sample : ic5312-4 Inst : MSVOA6
Misc : MS33959,VJ5312,,,,,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 24 12:44:00 2016
Quant Method : C:\msdchem\2\methods\MSJ052316a.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	1212019	50.00	ug/L	0.00
56) Chlorobenzene-d5	10.846	117	987363	50.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	13.207	152	551283	50.00	ug/L	0.00
106) Tert Butyl Alcohol-d10	5.298	65	80560	250.00	ug/L	0.00
System Monitoring Compounds						
36) Dibromofluoromethane	6.928	113	304787	50.19	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 100.38%			
46) 1,2-Dichloroethane-d4	7.482	65	341659	48.12	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 96.24%			
57) Toluene-d8	9.301	98	1239655	48.75	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 97.50%			
79) 4-Bromofluorobenzene	12.051	95	503413	50.08	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 100.16%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.694	85	182784	37.97	ug/L	100
3) Chloromethane	2.907	50	208672	33.40	ug/L	100
4) Vinyl Chloride	3.047	62	218598	32.09	ug/L	98
5) 1,3-Butadiene	3.035	54	98066	Below Cal		88
6) Bromomethane	3.467	94	132948	31.58	ug/L	93
7) Chloroethane	3.613	64	102620	34.33	ug/L	95
8) Trichlorofluoromethane	3.844	101	280378m	32.32	ug/L	
9) Ethyl Ether	4.118	59	129854	26.93	ug/L	98
10) 1,2-Dichlorotrifluoroe...	4.361	67	203480	27.50	ug/L	99
11) 1,1-Dichloroethene	4.404	61	253979	28.40	ug/L	97
12) Freon 113	4.471	101	175360	28.33	ug/L	96
13) Carbon Disulfide	4.477	76	572065	28.45	ug/L	100
14) Iodomethane	4.592	142	279052	28.01	ug/L	100
15) Allyl chloride	4.927	41	231749	30.10	ug/L	96
16) Methylene Chloride	5.049	49	226424	27.74	ug/L	98
17) Acetone	5.073	58	51339	137.88	ug/L	87
18) Methyl acetate	5.195	74	91855	131.13	ug/L #	92
19) trans-1,2-Dichloroethene	5.231	61	233364	28.28	ug/L	97
20) Hexane	5.304	56	155582	27.06	ug/L	96
21) Methyl Tert Butyl Ether	5.341	73	450864	25.38	ug/L	94
22) Acetonitrile	5.596	40	68949	302.05	ug/L	89
23) Di-isopropyl ether	5.718	45	507208	25.76	ug/L	98
24) Chloroprene	5.870	53	251869	31.23	ug/L	99
25) 1,1-Dichloroethane	5.900	63	306930	27.51	ug/L	95
26) Acrylonitrile	5.925	53	207403	140.57	ug/L	95
27) ETBE	6.119	59	526077	26.10	ug/L	99
28) Vinyl acetate	6.107	43	1397081	154.17	ug/L	100
29) cis-1,2-Dichloroethene	6.472	96	195380	27.46	ug/L	96
30) 2,2-Dichloropropane	6.606	77	244624	26.30	ug/L	97
31) Bromochloromethane	6.685	128	89442	26.75	ug/L	98
32) Cyclohexane	6.734	56	299313	28.69	ug/L	97
33) Chloroform	6.740	83	334285	27.38	ug/L	99
34) Ethyl acetate	6.807	43	493123	146.64	ug/L	98

SGS ACCUTEST FA34224

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\052416\
Data File : J0976756.D
Acq On : 24 May 2016 11:41 am
Operator : DARSHNAP
Sample : ic5312-4 Inst : MSVOA6
Misc : MS33959,VJ5312,,,,,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 24 12:44:00 2016
Quant Method : C:\msdchem\2\methods\MSJ052316a.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	27252	26.65 ug/L	92
37)	Carbon Tetrachloride	6.935	117	248811m	26.30 ug/L	
38)	1,1,1-Trichloroethane	6.995	97	294960	27.05 ug/L	97
39)	2-Butanone	7.026	43	199643	125.29 ug/L	97
40)	1,1-Dichloropropene	7.105	75	236140	27.81 ug/L	97
41)	tert-Butyl Formate	7.190	59	1105858	274.74 ug/L	98
42)	Propionitrile	7.330	54	158668	293.93 ug/L #	73
43)	Methacrylonitrile	7.360	41	651924	289.85 ug/L	98
44)	Benzene	7.360	78	731829	26.99 ug/L	97
45)	TAME	7.433	73	473767	25.44 ug/L	99
47)	1,2-Dichloroethane	7.549	62	223669	25.62 ug/L	97
48)	Trichloroethene	7.938	95	187907	27.59 ug/L	96
49)	Methylcyclohexane	7.957	83	326634	27.86 ug/L	96
50)	Dibromomethane	8.364	93	95863	25.20 ug/L	95
51)	1,2-Dichloropropane	8.449	63	175981	26.57 ug/L	98
52)	Bromodichloromethane	8.492	83	233789	26.65 ug/L	98
53)	Methyl methacrylate	8.595	41	90370	27.36 ug/L	97
54)	2-Chloroethyl vinyl ether	9.009	63	427949	130.90 ug/L	99
55)	cis-1,3-Dichloropropene	9.113	75	273585	26.95 ug/L	96
58)	Toluene	9.356	91	775901	26.16 ug/L	100
59)	2-Nitropropane	9.557	41	129904	119.61 ug/L	92
60)	4-Methyl-2-pentanone	9.672	43	512902	116.91 ug/L	99
61)	trans-1,3-Dichloropropene	9.739	75	227129	25.15 ug/L	97
62)	Tetrachloroethene	9.757	166	193195	26.14 ug/L	98
63)	Ethyl methacrylate	9.836	69	177358	26.59 ug/L	97
64)	1,1,2-Trichloroethane	9.903	83	124619	25.68 ug/L	97
65)	Dibromochloromethane	10.104	129	160325	24.74 ug/L	94
66)	1,3-Dichloropropane	10.183	76	247480	25.12 ug/L	99
67)	1,2-Dibromoethane	10.360	107	136822	24.61 ug/L	94
68)	2-hexanone	10.487	43	356673	120.94 ug/L	99
69)	1-Chlorohexane	10.798	91	245131	27.92 ug/L	99
70)	Ethylbenzene	10.858	91	895764	25.49 ug/L	97
71)	Chlorobenzene	10.865	112	519437	25.61 ug/L	97
72)	1,1,1,2-Tetrachloroethane	10.913	131	174790	26.08 ug/L	99
73)	m,p-Xylene	10.998	91	1362269	51.01 ug/L	96
74)	o-Xylene	11.436	91	696953	26.30 ug/L	98
75)	Styrene	11.485	104	541465	26.48 ug/L	98
76)	Bromoform	11.546	173	98190	23.51 ug/L	98
77)	Isopropylbenzene	11.741	105	839040	25.68 ug/L	98
80)	cis-1,4-Dichloro-2-butene	12.087	53	40662	24.28 ug/L	93
81)	n-Propylbenzene	12.160	91	1024705	25.58 ug/L	97
82)	Bromobenzene	12.185	156	229221	25.40 ug/L	94
83)	1,1,2,2-Tetrachloroethane	12.221	83	177270	24.59 ug/L	98
84)	1,3,5-Trimethylbenzene	12.343	105	765060	25.46 ug/L	99
85)	2-Chlorotoluene	12.349	91	714069	25.16 ug/L	100
86)	trans-1,4-Dichloro-2-B...	12.398	53	37083	23.26 ug/L	92
87)	1,2,3-Trichloropropane	12.379	110	47630	25.03 ug/L	91
88)	Cyclohexanone	12.446	55	24279	144.48 ug/L	91
89)	4-Chlorotoluene	12.519	91	661198	25.28 ug/L	99
90)	a-Methyl Styrene	12.604	118	414235	27.20 ug/L	99

SGS ACCUTEST FA34224

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\052416\
Data File : J0976756.D
Acq On : 24 May 2016 11:41 am
Operator : DARSHNAP
Sample : ic5312-4 Inst : MSVOA6
Misc : MS33959,VJ5312,,,,,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 24 12:44:00 2016
Quant Method : C:\msdchem\2\methods\MSJ052316a.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	425807	25.72	ug/L	99
92) 1,2,4-Trimethylbenzene	12.750	105	766434	25.55	ug/L	98
93) Pentachloroethane	12.738	167	146469	26.73	ug/L	95
94) sec-Butylbenzene	12.866	105	928152	25.73	ug/L	99
95) 4-Isopropyltoluene	13.000	119	788164	27.33	ug/L	98
96) 1,3-Dichlorobenzene	13.134	146	406045	25.53	ug/L	98
97) 1,4-Dichlorobenzene	13.219	146	416926	25.29	ug/L	99
98) n-Butylbenzene	13.432	92	441423	26.69	ug/L	99
99) Benzyl Chloride	13.450	126	58856	22.71	ug/L #	84
100) 1,2-Dichlorobenzene	13.645	146	377763	25.52	ug/L	99
101) 1,2-Dibromo-3-Chloropr...	14.381	75	23464	24.63	ug/L	97
102) Hexachlorobutadiene	14.928	225	164506	25.95	ug/L	97
103) 1,2,4-Trichlorobenzene	14.971	180	245215	24.26	ug/L	96
104) Naphthalene	15.257	128	350442	23.77	ug/L	97
105) 1,2,3-Trichlorobenzene	15.427	180	208712	24.83	ug/L	97
107) Ethanol	4.270	45	23040m	578.37	ug/L	
108) acrolein	4.763	56	91711	120.74	ug/L	98
109) Tert Butyl Alcohol	5.371	59	99521	245.13	ug/L	77
110) tert Amyl alcohol	7.573	59	75718	232.75	ug/L	99
111) Isobutyl alcohol	7.458	42	71040	494.95	ug/L #	82
112) 1,4-Dioxane	8.668	88	22613	492.53	ug/L	95
113) 3,3-Dimethyl-1-butanol	10.433	57	410448	1151.88	ug/L	98

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

7.6.4

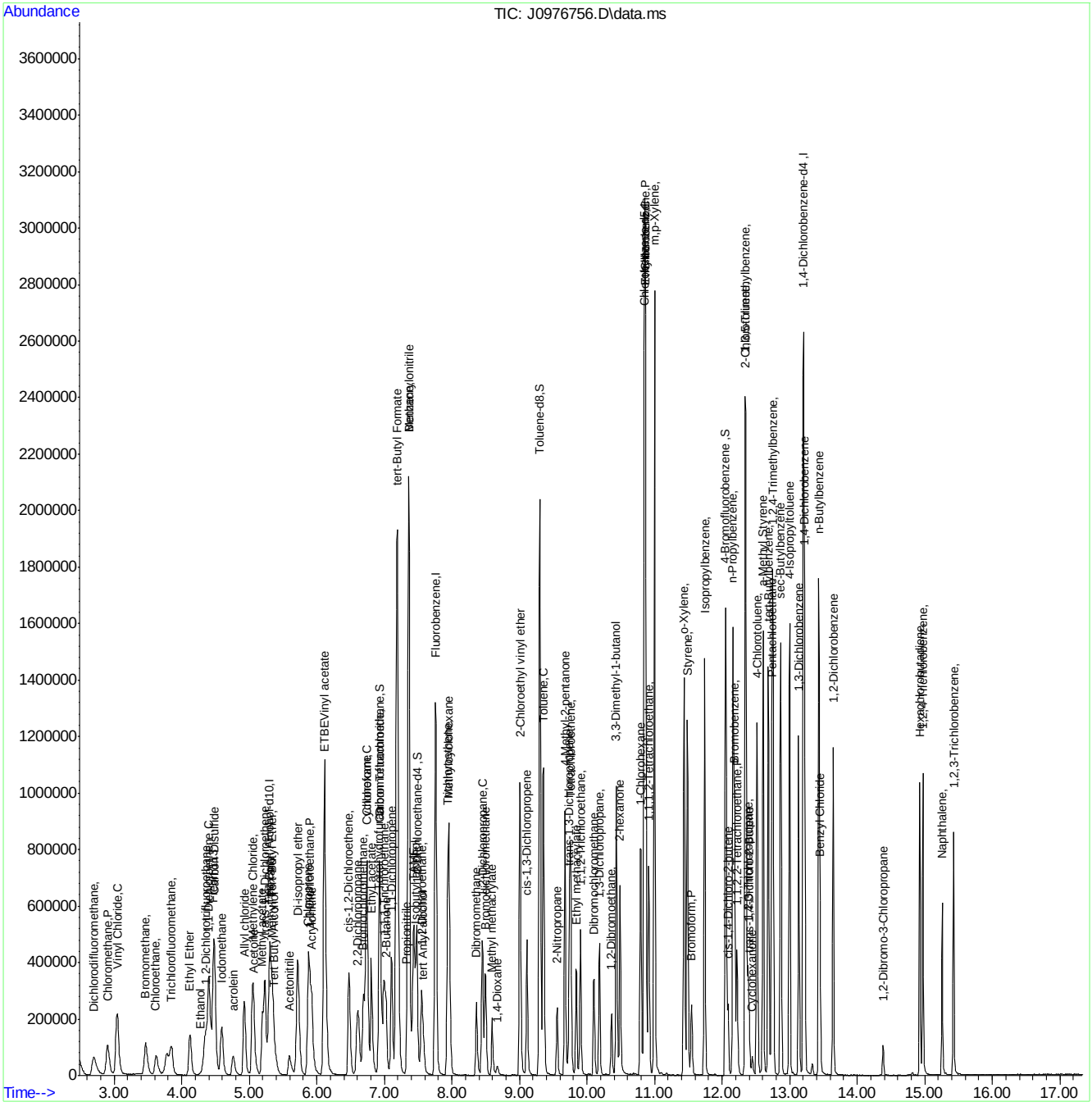
7

SGS ACCUTEST FA34224

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\052416\
Data File : J0976756.D
Acq On : 24 May 2016 11:41 am
Operator : DARSHNAP
Sample : ic5312-4 Inst : MSVOA6
Misc : MS33959,VJ5312,,,,,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 24 12:44:00 2016
Quant Method : C:\msdchem\2\methods\MSJ052316a.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 FA34224

Manual Integration Approval Summary

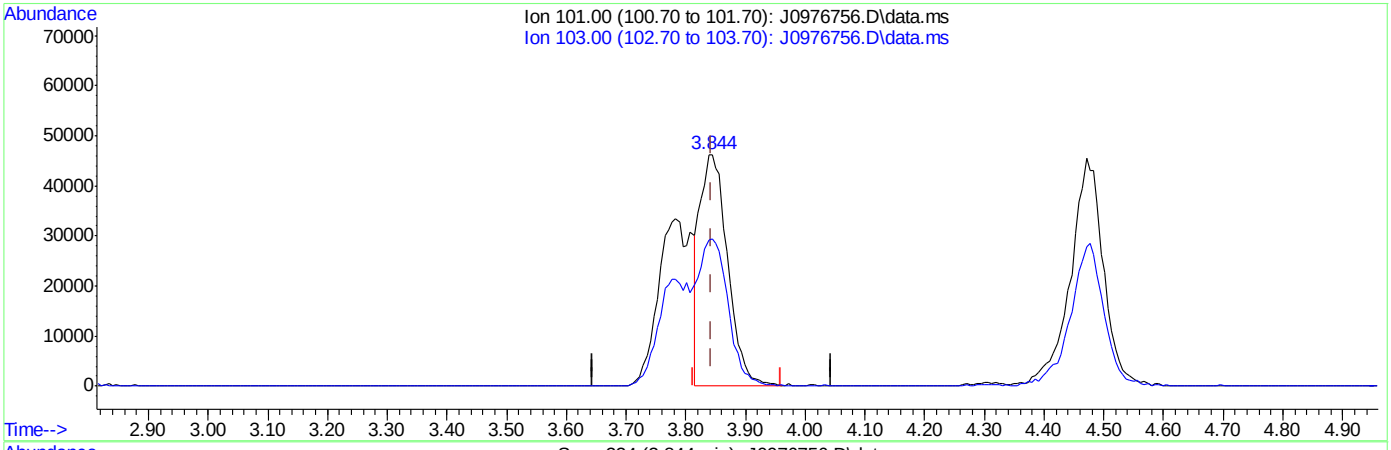
Sample Number:	VJ5312-IC5312	**Method:**	SW846 8260B
Lab FileID:	J0976756.D	**Analyst approved:**	05/25/16 11:19 Darshna Patel
Injection Time:	05/24/16 11:41	**Supervisor approved:**	05/25/16 12:38 Melissa Mangual

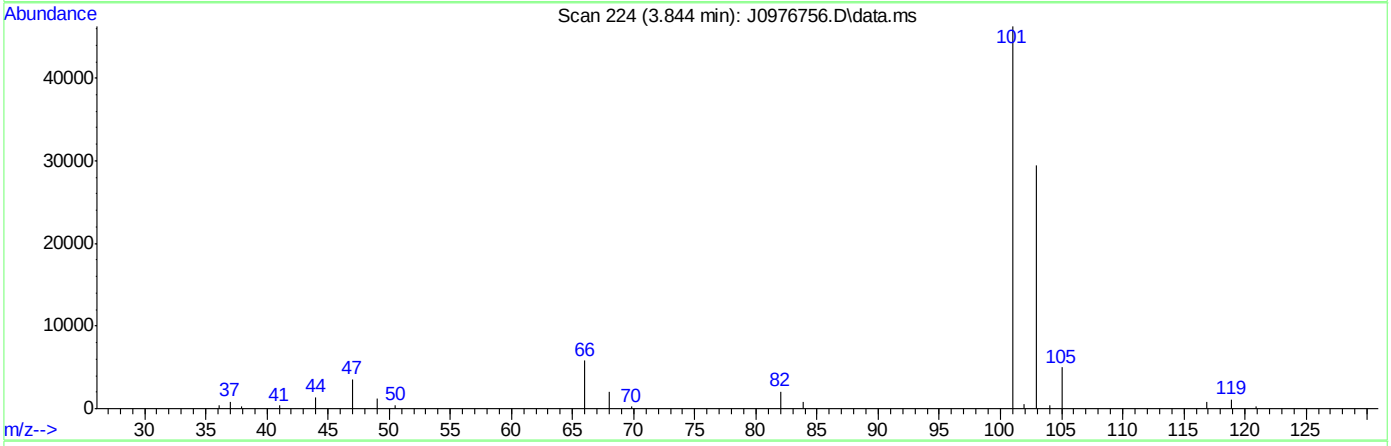
Parameter	CAS	Sig#	R.T. (min.)	Reason
Trichlorofluoromethane	75-69-4		3.84	Split peak
Ethyl Alcohol	64-17-5		4.27	Poor instrument integration
Carbon Tetrachloride	56-23-5		6.93	Overlapping peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\052416\
Data File : J0976756.D
Acq On : 24 May 2016 11:41 am
Operator : DARSHNAP
Sample : ic5312-4 Inst : MSVOA6
Misc : MS33959,VJ5312,,,,,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 24 12:40:59 2016
Quant Method : C:\msdchem\2\methods\MSJ052316a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri May 13 08:29:47 2016
Response via : Initial Calibration





TIC: J0976756.D\data.ms

(8) Trichlorofluoromethane ( )

3.844min (+0.000) 17.39ug/L

response 150833

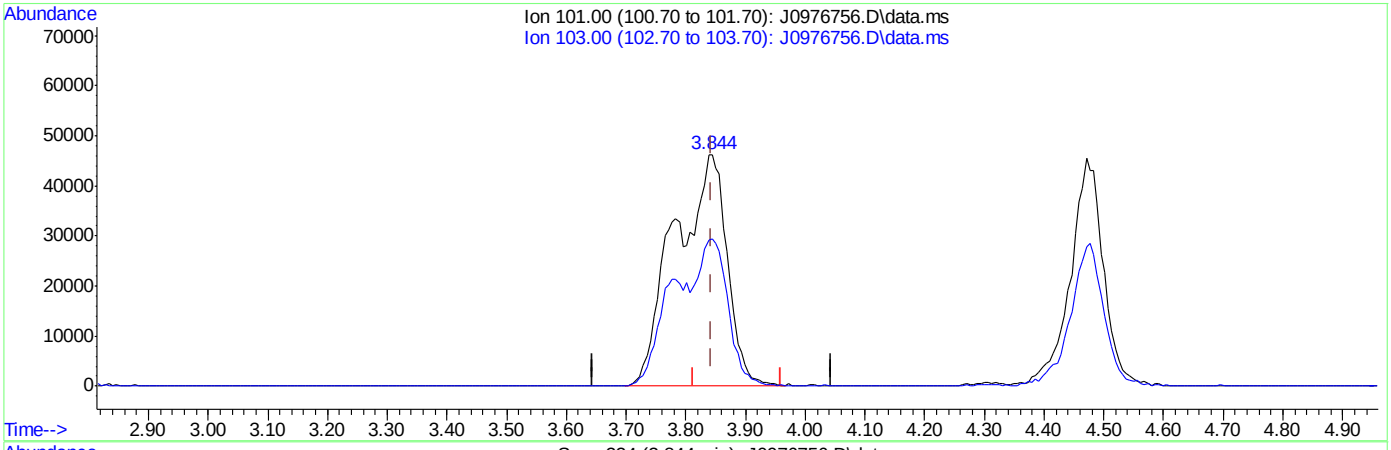
Ion	Exp%	Act%
101.00	100	100
103.00	59.70	63.13
0.00	0.00	0.00
0.00	0.00	0.00

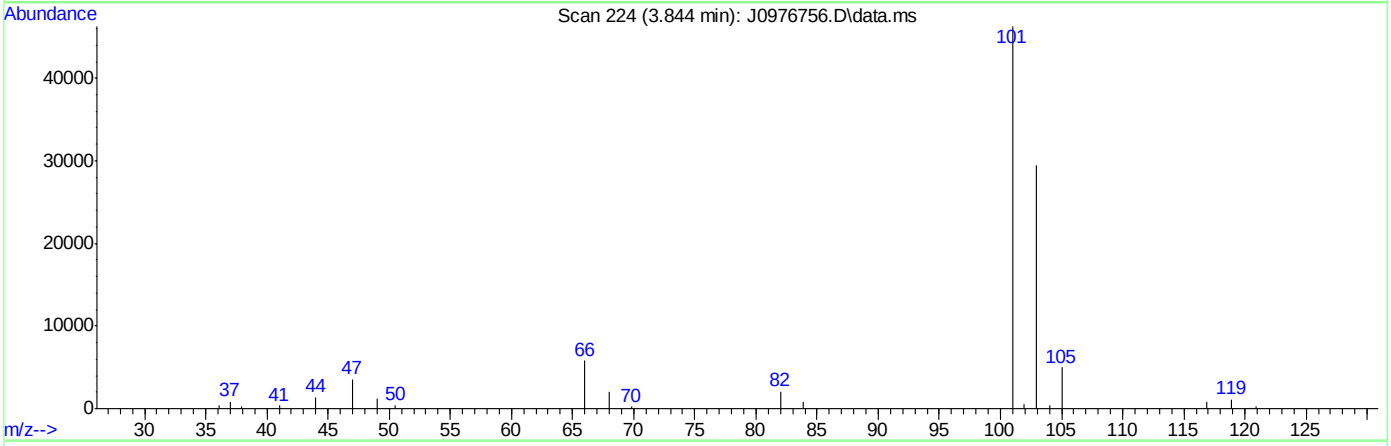
SGS ACCUTEST FA34224

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\052416\
Data File : J0976756.D
Acq On : 24 May 2016 11:41 am
Operator : DARSHNAP
Sample : ic5312-4 Inst : MSVOA6
Misc : MS33959,VJ5312,,,,,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 24 12:40:59 2016
Quant Method : C:\msdchem\2\methods\MSJ052316a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri May 13 08:29:47 2016
Response via : Initial Calibration





TIC: J0976756.D\data.ms

(8) Trichlorofluoromethane ( )

3.844min (+0.000) 32.32ug/L m

response 280378

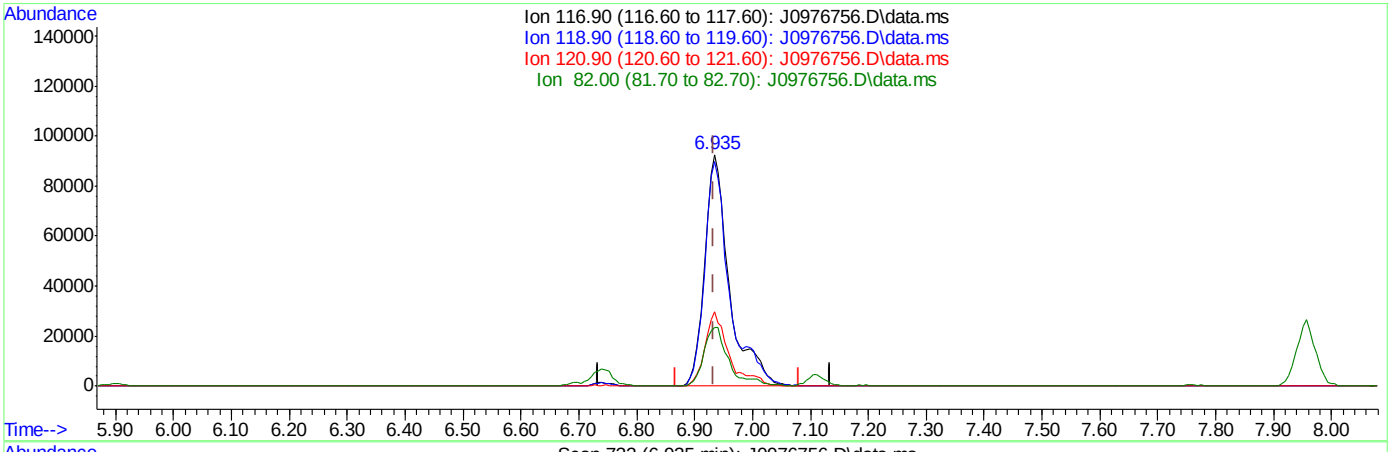
Ion	Exp%	Act%
101.00	100	100
103.00	59.70	63.78
0.00	0.00	0.00
0.00	0.00	0.00

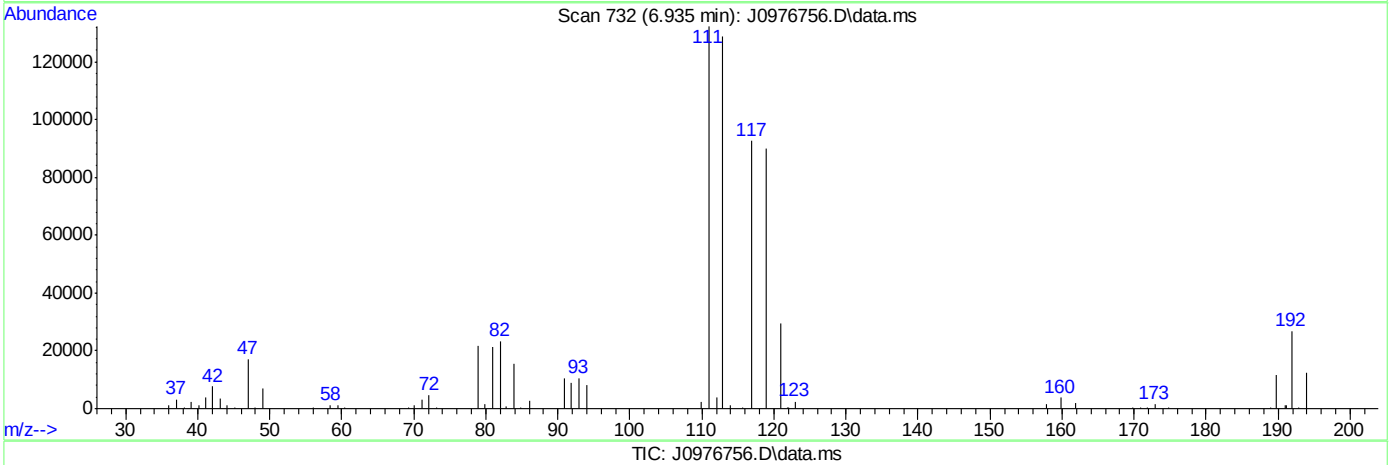
SGS ACCUTEST FA34224

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\052416\
Data File : J0976756.D
Acq On : 24 May 2016 11:41 am
Operator : DARSHNAP
Sample : ic5312-4 Inst : MSVOA6
Misc : MS33959,VJ5312,,,,,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 24 12:40:59 2016
Quant Method : C:\msdchem\2\methods\MSJ052316a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri May 13 08:29:47 2016
Response via : Initial Calibration





TIC: J0976756.D\data.ms

(37) Carbon Tetrachloride ( )

6.935min (+0.001) 29.54ug/L

response 279494

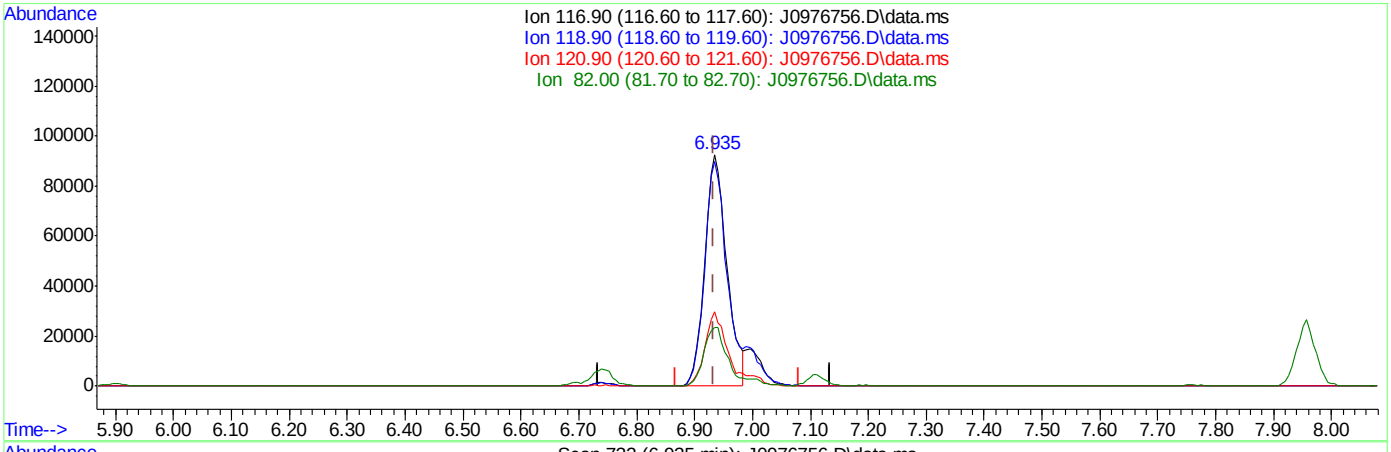
Ion	Exp%	Act%
116.90	100	100
118.90	97.10	97.18
120.90	31.20	32.01
82.00	25.70	25.15

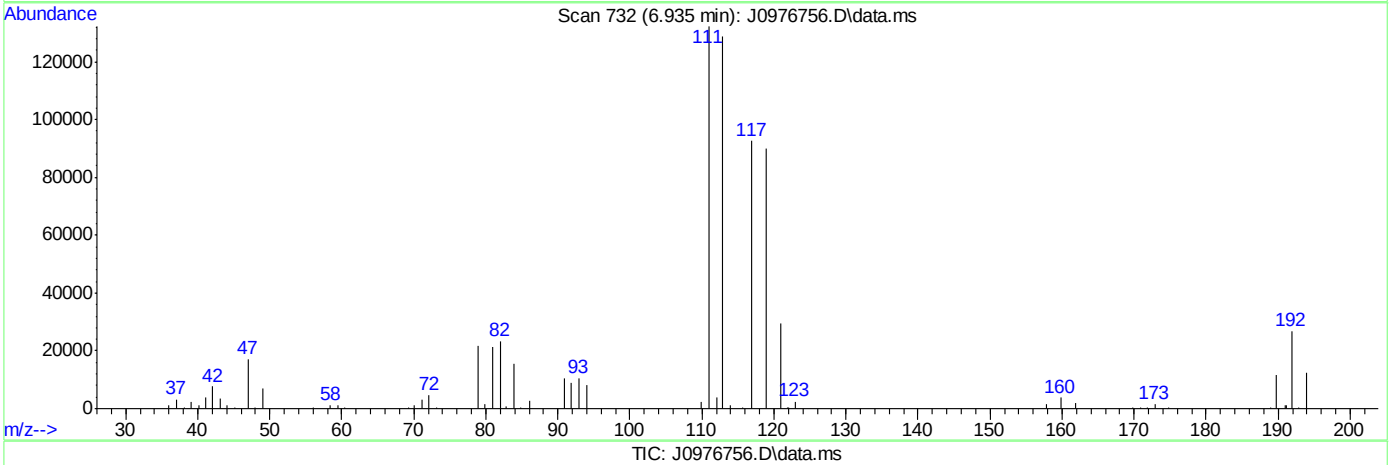
SGS ACCUTEST FA34224

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\052416\
Data File : J0976756.D
Acq On : 24 May 2016 11:41 am
Operator : DARSHNAP
Sample : ic5312-4 Inst : MSVOA6
Misc : MS33959,VJ5312,,,,,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 24 12:40:59 2016
Quant Method : C:\msdchem\2\methods\MSJ052316a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri May 13 08:29:47 2016
Response via : Initial Calibration





TIC: J0976756.D\data.ms

(37) Carbon Tetrachloride ( )

6.935min (+0.001) 26.30ug/L m

response 248811

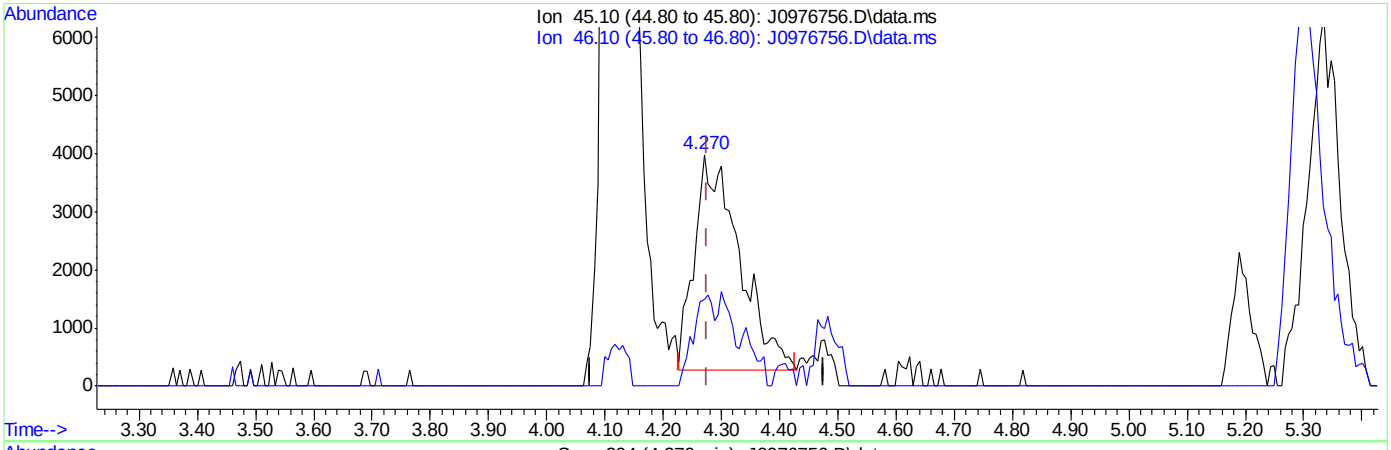
Ion	Exp%	Act%
116.90	100	100
118.90	97.10	97.18
120.90	31.20	32.01
82.00	25.70	25.15

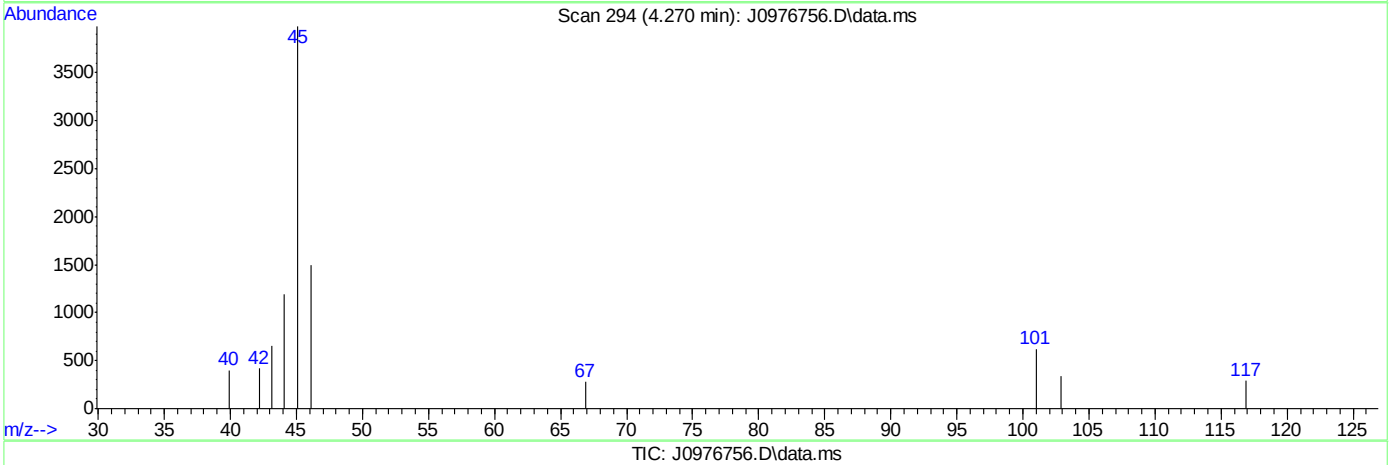
SGS ACCUTEST FA34224

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\052416\
Data File : J0976756.D
Acq On : 24 May 2016 11:41 am
Operator : DARSHNAP
Sample : ic5312-4 Inst : MSVOA6
Misc : MS33959,VJ5312,,,,,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 24 12:40:59 2016
Quant Method : C:\msdchem\2\methods\MSJ052316a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri May 13 08:29:47 2016
Response via : Initial Calibration





TIC: J0976756.D\data.ms

(107) Ethanol

4.270min (-0.006) 496.73ug/L

response 19788

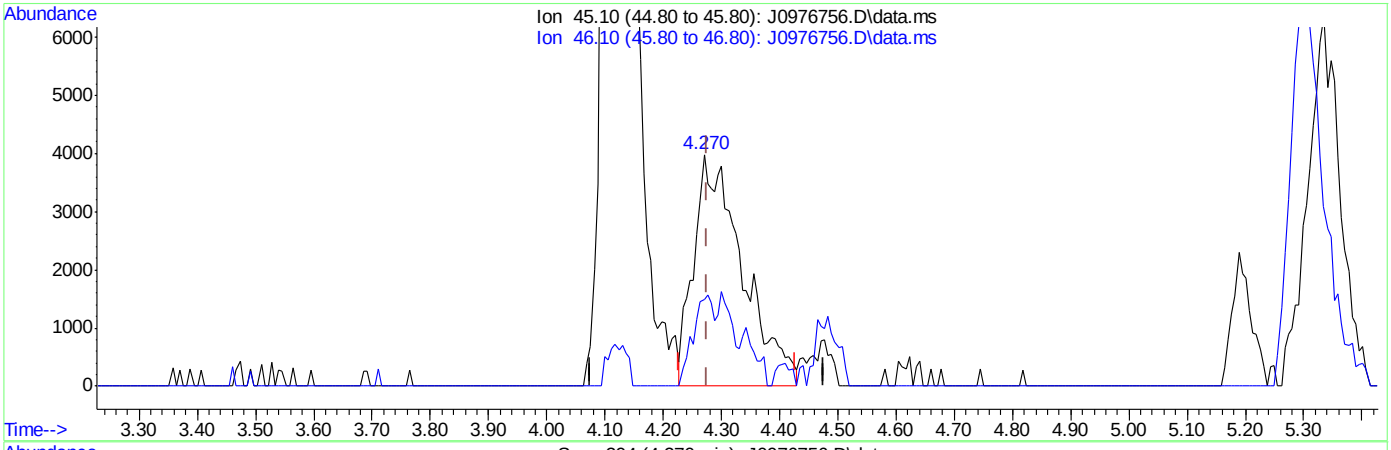
Ion	Exp%	Act%
45.10	100	100
46.10	35.30	40.12
0.00	0.00	0.00
0.00	0.00	0.00

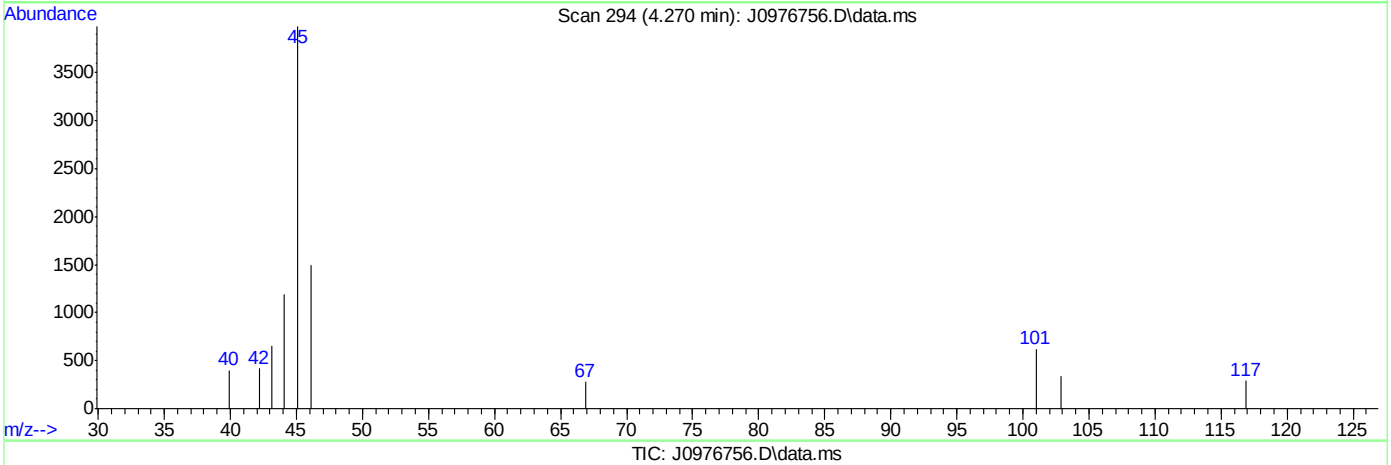
SGS ACCUTEST FA34224

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\052416\
Data File : J0976756.D
Acq On : 24 May 2016 11:41 am
Operator : DARSHNAP
Sample : ic5312-4 Inst : MSVOA6
Misc : MS33959,VJ5312,,,,,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 24 12:40:59 2016
Quant Method : C:\msdchem\2\methods\MSJ052316a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri May 13 08:29:47 2016
Response via : Initial Calibration





TIC: J0976756.D\data.ms

(107) Ethanol

4.270min (-0.006) 578.37ug/L m

response 23040

Ion	Exp%	Act%
45.10	100	100
46.10	35.30	37.40
0.00	0.00	0.00
0.00	0.00	0.00

SGS ACCUTEST FA34224

Manual Integrations APPROVED (compounds with "m" flag)
Melissa Mangual 05/25/16 12:38

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\052416\
Data File : J0976757.D
Acq On : 24 May 2016 12:04 pm
Operator : DARSHNAP
Sample : icc5312-5 Inst : MSVOA6
Misc : MS33959,VJ5312,,,,,
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 24 12:44:30 2016
Quant Method : C:\msdchem\2\methods\MSJ052316a.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	1225722	50.00	ug/L	0.00
56) Chlorobenzene-d5	10.846	117	1002461	50.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	13.207	152	584836	50.00	ug/L	0.00
106) Tert Butyl Alcohol-d10	5.310	65	87450	250.00	ug/L	0.01
System Monitoring Compounds						
36) Dibromofluoromethane	6.928	113	311277	50.68	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 101.36%			
46) 1,2-Dichloroethane-d4	7.476	65	340565	47.43	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 94.86%			
57) Toluene-d8	9.301	98	1263033	48.92	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 97.84%			
79) 4-Bromofluorobenzene	12.051	95	526061	49.33	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 98.66%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.694	85	315334	62.56	ug/L	94
3) Chloromethane	2.901	50	358692	55.05	ug/L	99
4) Vinyl Chloride	3.047	62	354542	51.51	ug/L	96
5) 1,3-Butadiene	3.041	54	130479	Below Cal		87
6) Bromomethane	3.467	94	203171	50.94	ug/L	96
7) Chloroethane	3.619	64	150831	65.52	ug/L	92
8) Trichlorofluoromethane	3.838	101	462104m	52.67	ug/L	
9) Ethyl Ether	4.118	59	217182	44.72	ug/L	97
10) 1,2-Dichlorotrifluoroe...	4.361	67	328192	43.86	ug/L	97
11) 1,1-Dichloroethene	4.404	61	405177	44.40	ug/L	97
12) Freon 113	4.464	101	289413	45.92	ug/L	92
13) Carbon Disulfide	4.477	76	945255	45.80	ug/L	97
14) Iodomethane	4.586	142	469950	45.94	ug/L	98
15) Allyl chloride	4.927	41	341749	43.09	ug/L	96
16) Methylene Chloride	5.048	49	365226	44.77	ug/L	97
17) Acetone	5.067	58	80895	214.82	ug/L	97
18) Methyl acetate	5.194	74	156085	220.32	ug/L #	91
19) trans-1,2-Dichloroethene	5.231	61	367969	43.94	ug/L	96
20) Hexane	5.298	56	249420	42.90	ug/L	98
21) Methyl Tert Butyl Ether	5.341	73	760795	42.34	ug/L	96
22) Acetonitrile	5.590	40	106600	457.80	ug/L	92
23) Di-isopropyl ether	5.718	45	854962	42.93	ug/L	97
24) Chloroprene	5.876	53	352484	42.18	ug/L	98
25) 1,1-Dichloroethane	5.900	63	495760	44.22	ug/L	98
26) Acrylonitrile	5.925	53	373218	250.13	ug/L	97
27) ETBE	6.119	59	886178	43.47	ug/L	99
28) Vinyl acetate	6.107	43	2365398	258.11	ug/L	99
29) cis-1,2-Dichloroethene	6.478	96	324861	44.88	ug/L	93
30) 2,2-Dichloropropane	6.606	77	407593	43.32	ug/L	98
31) Bromochloromethane	6.691	128	149588	44.30	ug/L	95
32) Cyclohexane	6.740	56	485151	45.98	ug/L	97
33) Chloroform	6.740	83	535807	43.78	ug/L	99
34) Ethyl acetate	6.807	43	833565	245.10	ug/L	99

SGS ACCUTEST FA34224

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\052416\
Data File : J0976757.D
Acq On : 24 May 2016 12:04 pm
Operator : DARSHNAP
Sample : icc5312-5 Inst : MSVOA6
Misc : MS33959,VJ5312,,,,,
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 24 12:44:30 2016
Quant Method : C:\msdchem\2\methods\MSJ052316a.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	46645	44.89 ug/L	95
37) Carbon Tetrachloride	6.934	117	406273m	42.46 ug/L	
38) 1,1,1-Trichloroethane	6.995	97	479122	43.44 ug/L	99
39) 2-Butanone	7.026	43	327146	205.45 ug/L	97
40) 1,1-Dichloropropene	7.105	75	379013	44.13 ug/L	99
41) tert-Butyl Formate	7.190	59	1906427	468.34 ug/L	99
42) Propionitrile	7.336	54	251514	460.72 ug/L	96
43) Methacrylonitrile	7.360	41	975851	429.02 ug/L	98
44) Benzene	7.360	78	1170009	43.54 ug/L	98
45) TAME	7.433	73	806167	42.81 ug/L	97
47) 1,2-Dichloroethane	7.549	62	357490	41.58 ug/L	99
48) Trichloroethene	7.932	95	297871	43.57 ug/L	98
49) Methylcyclohexane	7.956	83	539697	45.51 ug/L	97
50) Dibromomethane	8.358	93	158522	41.21 ug/L	97
51) 1,2-Dichloropropane	8.449	63	293422	44.31 ug/L	98
52) Bromodichloromethane	8.492	83	379537	43.26 ug/L	96
53) Methyl methacrylate	8.589	41	143264	42.73 ug/L	94
54) 2-Chloroethyl vinyl ether	9.009	63	712741	217.84 ug/L	98
55) cis-1,3-Dichloropropene	9.106	75	459449	44.75 ug/L	97
58) Toluene	9.356	91	1245585	42.26 ug/L	99
59) 2-Nitropropane	9.556	41	218006	200.62 ug/L	99
60) 4-Methyl-2-pentanone	9.672	43	801784	184.79 ug/L	99
61) trans-1,3-Dichloropropene	9.733	75	383312	41.80 ug/L	99
62) Tetrachloroethene	9.757	166	324634	43.26 ug/L	97
63) Ethyl methacrylate	9.836	69	286091	41.73 ug/L	98
64) 1,1,2-Trichloroethane	9.903	83	206416	42.41 ug/L	98
65) Dibromochloromethane	10.098	129	277090	42.16 ug/L	97
66) 1,3-Dichloropropane	10.183	76	410805	41.75 ug/L	98
67) 1,2-Dibromoethane	10.359	107	232359	41.17 ug/L	97
68) 2-hexanone	10.487	43	556685	185.91 ug/L	98
69) 1-Chlorohexane	10.797	91	401578	45.05 ug/L	97
70) Ethylbenzene	10.858	91	1451716	42.21 ug/L	99
71) Chlorobenzene	10.864	112	855946	42.49 ug/L	99
72) 1,1,1,2-Tetrachloroethane	10.913	131	289477	42.52 ug/L	98
73) m,p-Xylene	10.998	91	2181801	85.22 ug/L	99
74) o-Xylene	11.436	91	1152587	42.84 ug/L	100
75) Styrene	11.485	104	915733	44.11 ug/L	99
76) Bromoform	11.546	173	173937	40.82 ug/L	97
77) Isopropylbenzene	11.740	105	1376053	42.44 ug/L	100
80) cis-1,4-Dichloro-2-butene	12.087	53	67156	37.79 ug/L	91
81) n-Propylbenzene	12.160	91	1653257	40.52 ug/L	99
82) Bromobenzene	12.185	156	382513	40.51 ug/L	94
83) 1,1,2,2-Tetrachloroethane	12.221	83	295214	39.41 ug/L	97
84) 1,3,5-Trimethylbenzene	12.343	105	1269744	40.97 ug/L	100
85) 2-Chlorotoluene	12.349	91	1176883	40.46 ug/L	99
86) trans-1,4-Dichloro-2-B...	12.397	53	62344	36.87 ug/L	87
87) 1,2,3-Trichloropropane	12.379	110	79059	39.92 ug/L	94
88) Cyclohexanone	12.446	55	44310	247.82 ug/L	94
89) 4-Chlorotoluene	12.519	91	1093947	40.50 ug/L	100
90) a-Methyl Styrene	12.604	118	665443	40.96 ug/L	99

SGS ACCUTEST FA34224

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\052416\
Data File : J0976757.D
Acq On : 24 May 2016 12:04 pm
Operator : DARSHNAP
Sample : icc5312-5 Inst : MSVOA6
Misc : MS33959,VJ5312,,,,,
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 24 12:44:30 2016
Quant Method : C:\msdchem\2\methods\MSJ052316a.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	698270	40.34	ug/L	98
92) 1,2,4-Trimethylbenzene	12.750	105	1267226	41.02	ug/L	99
93) Pentachloroethane	12.738	167	222141	38.00	ug/L	96
94) sec-Butylbenzene	12.866	105	1507448	40.62	ug/L	99
95) 4-Isopropyltoluene	13.000	119	1307019	42.72	ug/L	99
96) 1,3-Dichlorobenzene	13.134	146	679957	40.87	ug/L	98
97) 1,4-Dichlorobenzene	13.219	146	698744	40.75	ug/L	98
98) n-Butylbenzene	13.432	92	732168	41.73	ug/L	99
99) Benzyl Chloride	13.444	126	108232	39.28	ug/L #	11
100) 1,2-Dichlorobenzene	13.645	146	632441	40.91	ug/L	99
101) 1,2-Dibromo-3-Chloropr...	14.381	75	42091	41.46	ug/L	92
102) Hexachlorobutadiene	14.928	225	275993	40.60	ug/L	99
103) 1,2,4-Trichlorobenzene	14.971	180	444142	41.61	ug/L	99
104) Naphthalene	15.257	128	645119	41.27	ug/L	99
105) 1,2,3-Trichlorobenzene	15.427	180	367673	41.19	ug/L	99
107) Ethanol	4.282	45	38026	879.35	ug/L	98
108) acrolein	4.763	56	150573	182.61	ug/L	99
109) Tert Butyl Alcohol	5.383	59	174060	403.34	ug/L	94
110) tert Amyl alcohol	7.573	59	134666	389.32	ug/L	93
111) Isobutyl alcohol	7.452	42	110337	730.06	ug/L	98
112) 1,4-Dioxane	8.668	88	41153	841.39	ug/L	96
113) 3,3-Dimethyl-1-butanol	10.432	57	738416	1946.33	ug/L	98

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

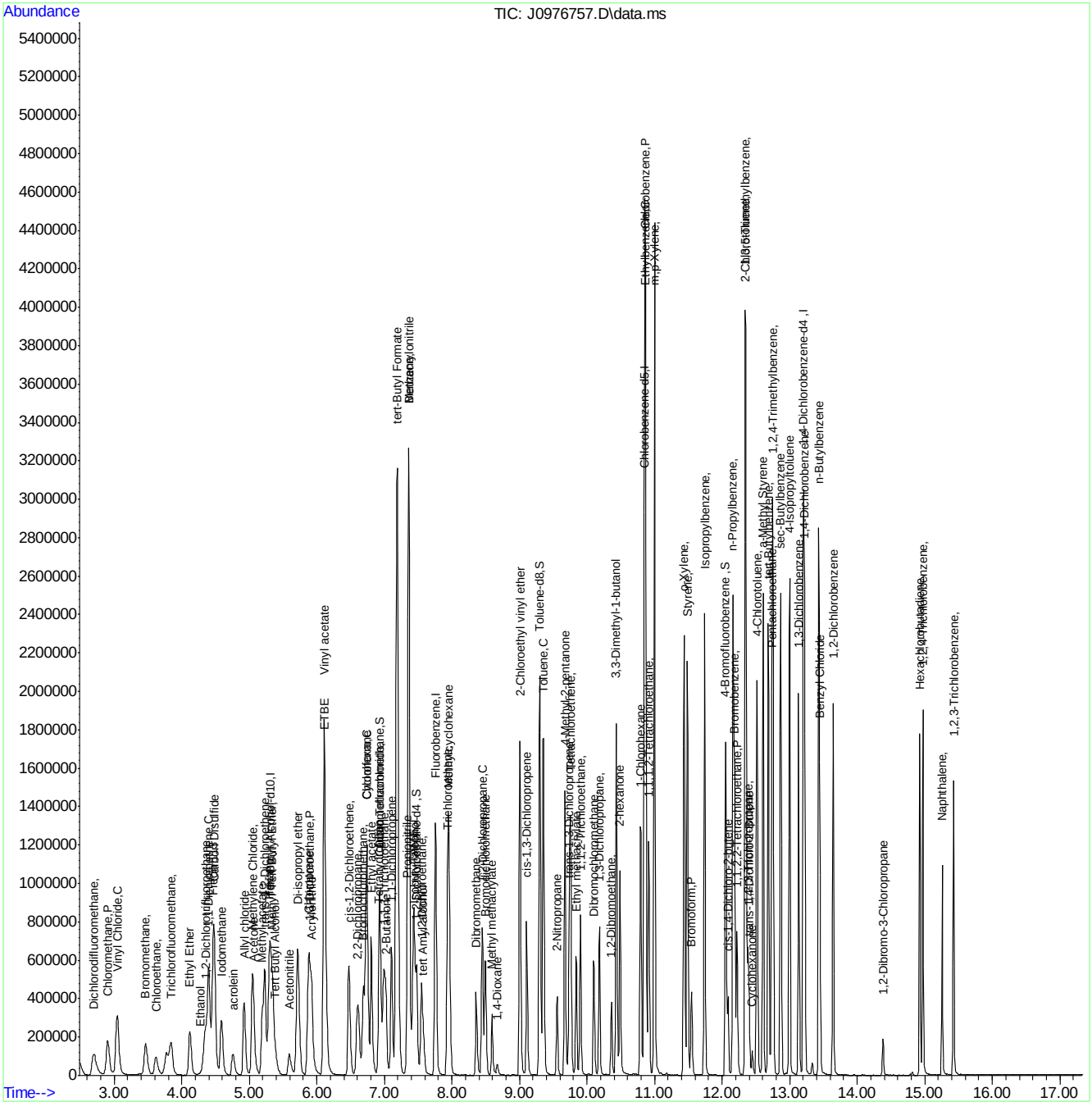
7.6.5

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\052416\
Data File : J0976757.D
Acq On : 24 May 2016 12:04 pm
Operator : DARSHNAP
Sample : icc5312-5 Inst : MSVOA6
Misc : MS33959,VJ5312,,,,,
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 24 12:44:30 2016
Quant Method : C:\msdchem\2\methods\MSJ052316a.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 FA34224

Manual Integration Approval Summary

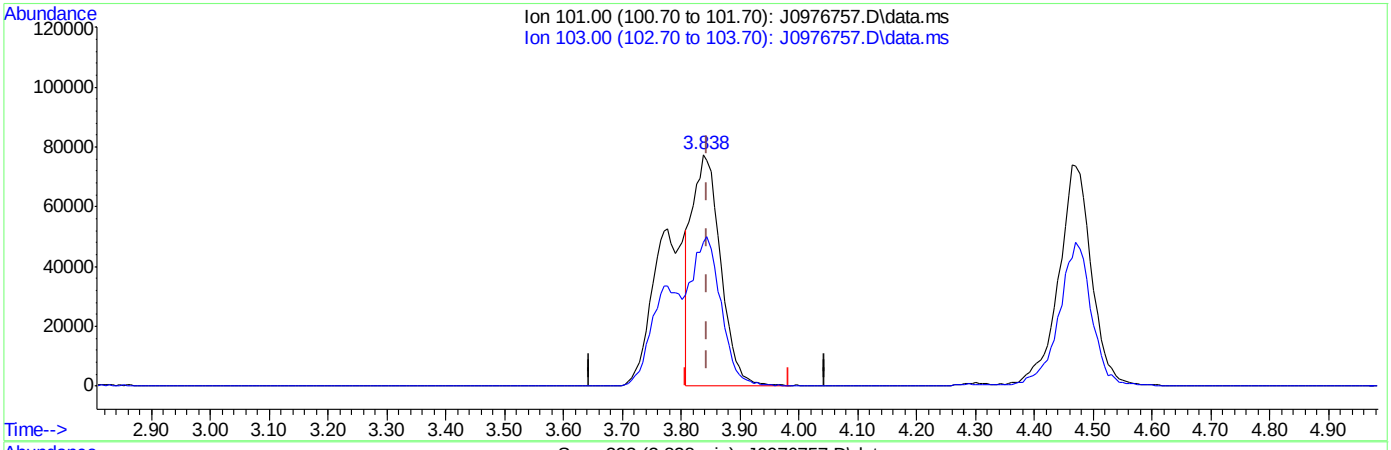
Sample Number:	VJ5312-ICC5312	**Method:**	SW846 8260B
Lab FileID:	J0976757.D	**Analyst approved:**	05/25/16 11:19 Darshna Patel
Injection Time:	05/24/16 12:04	**Supervisor approved:**	05/25/16 12:38 Melissa Mangual

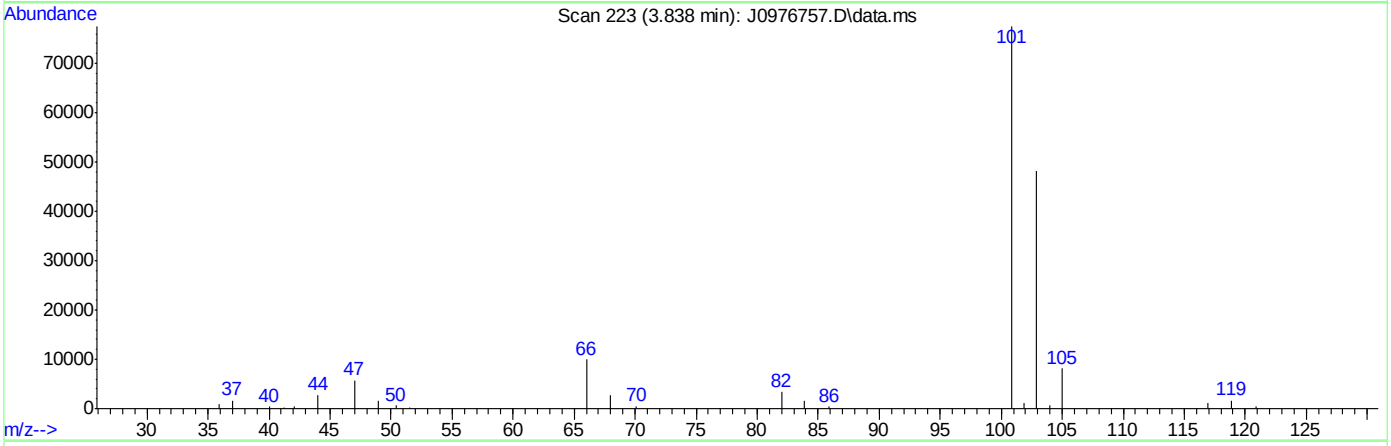
Parameter	CAS	Sig#	R.T. (min.)	Reason
Trichlorofluoromethane	75-69-4		3.84	Split peak
Carbon Tetrachloride	56-23-5		6.93	Overlapping peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\052416\
Data File : J0976757.D
Acq On : 24 May 2016 12:04 pm
Operator : DARSHNAP
Sample : icc5312-5 Inst : MSVOA6
Misc : MS33959,VJ5312,,,,,
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 24 12:41:02 2016
Quant Method : C:\msdchem\2\methods\MSJ052316a.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 ( )

3.838min (-0.006) 29.91ug/L

response 262362

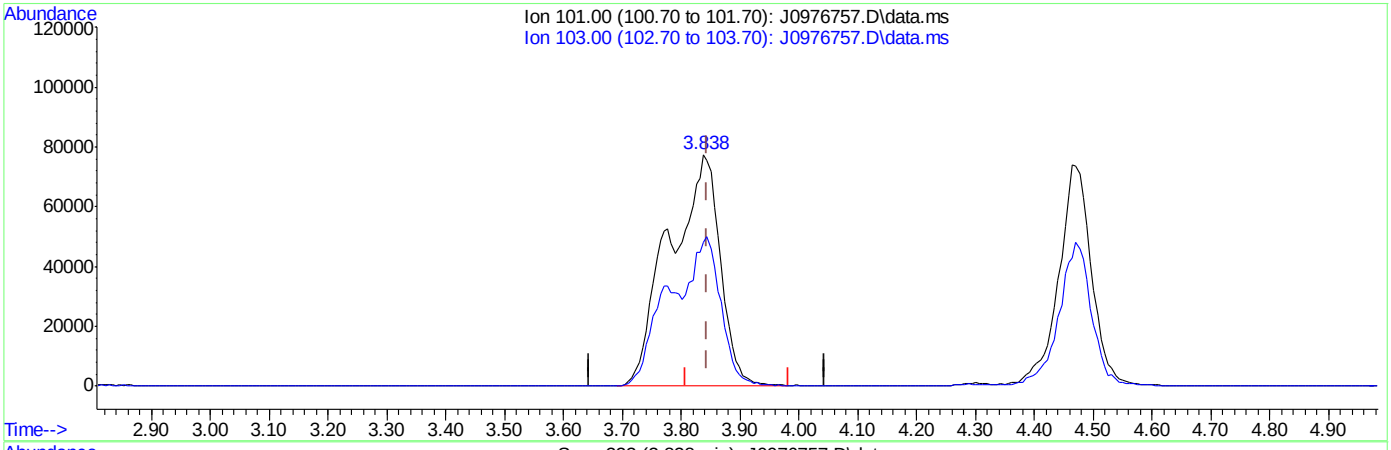
Ion	Exp%	Act%
101.00	100	100
103.00	59.70	62.28
0.00	0.00	0.00
0.00	0.00	0.00

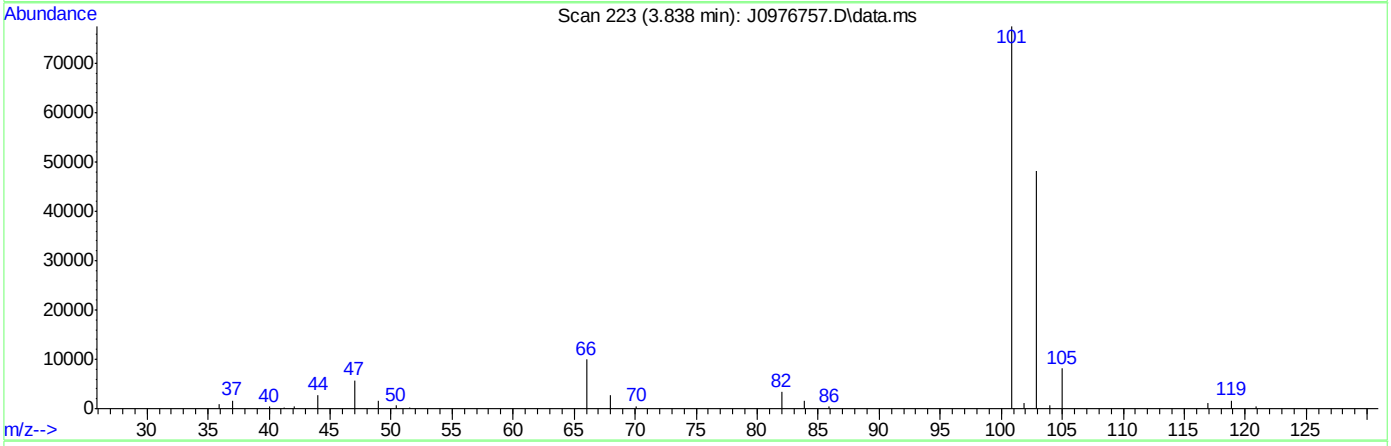
SGS ACCUTEST FA34224

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\052416\
Data File : J0976757.D
Acq On : 24 May 2016 12:04 pm
Operator : DARSHNAP
Sample : icc5312-5 Inst : MSVOA6
Misc : MS33959,VJ5312,,,,,
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 24 12:41:02 2016
Quant Method : C:\msdchem\2\methods\MSJ052316a.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 ( )

3.838min (-0.006) 52.67ug/L m

response 462104

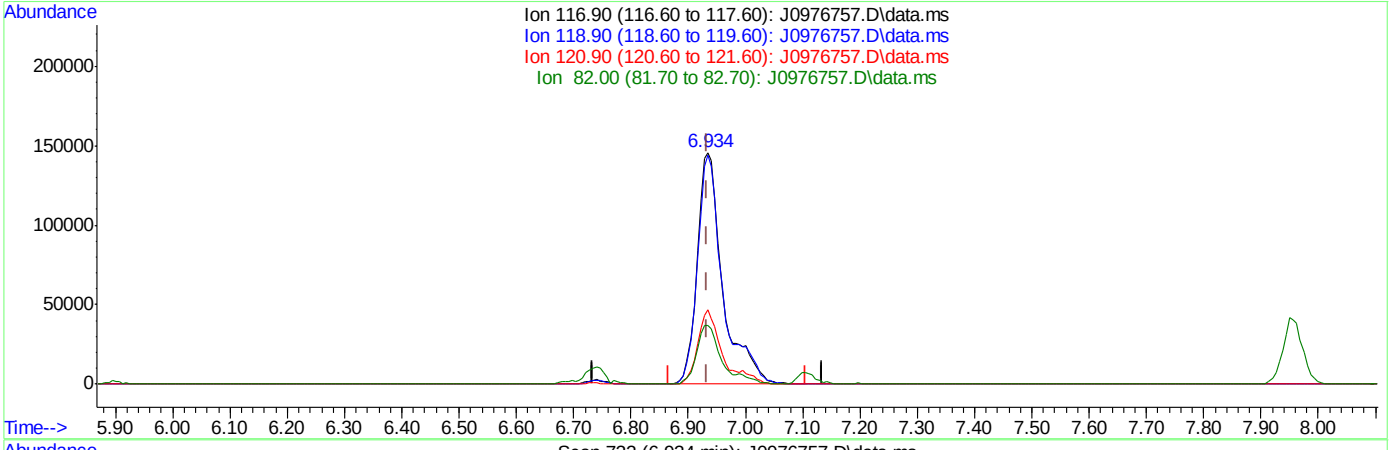
Ion	Exp%	Act%
101.00	100	100
103.00	59.70	62.28
0.00	0.00	0.00
0.00	0.00	0.00

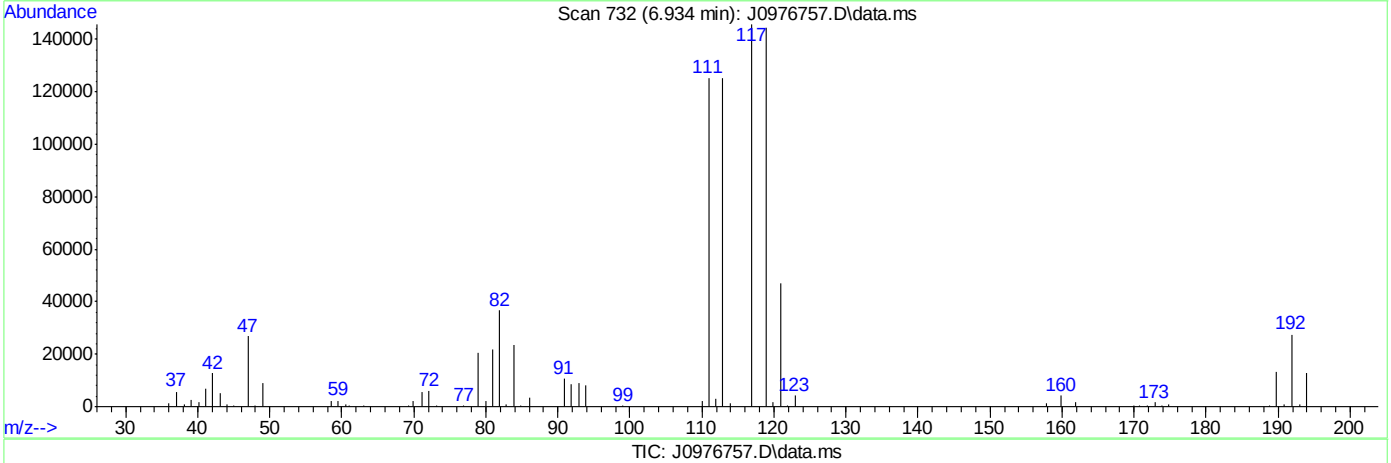
SGS ACCUTEST FA34224

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\052416\
Data File : J0976757.D
Acq On : 24 May 2016 12:04 pm
Operator : DARSHNAP
Sample : icc5312-5 Inst : MSVOA6
Misc : MS33959,VJ5312,,,,,
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 24 12:41:02 2016
Quant Method : C:\msdchem\2\methods\MSJ052316a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri May 13 08:29:47 2016
Response via : Initial Calibration





(37) Carbon Tetrachloride ( )

6.934min (+0.000) 47.76ug/L

response 457008

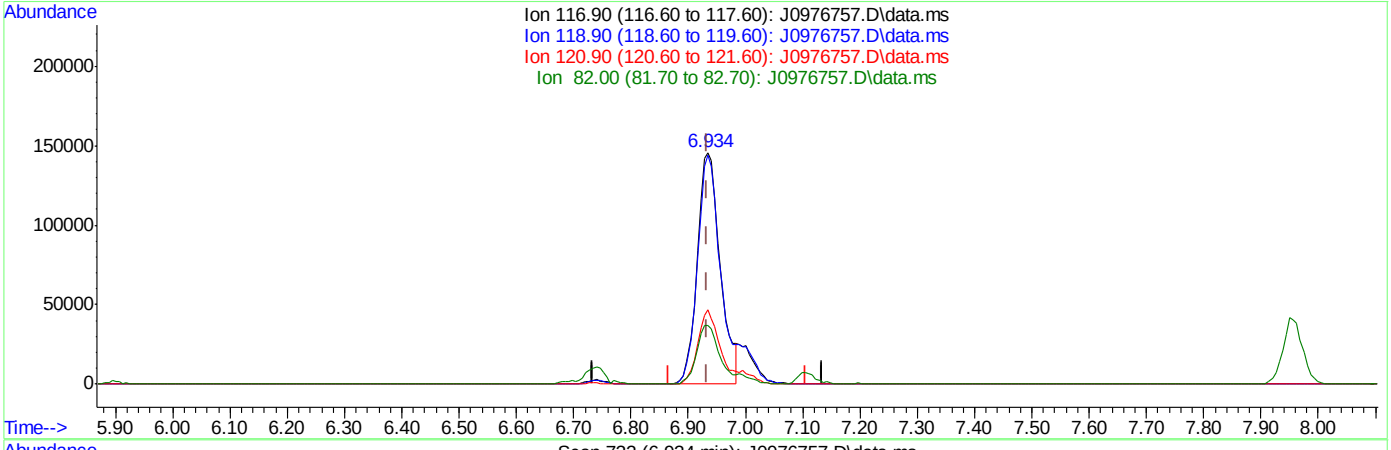
Ion	Exp%	Act%
116.90	100	100
118.90	97.10	99.08
120.90	31.20	32.20
82.00	25.70	25.20

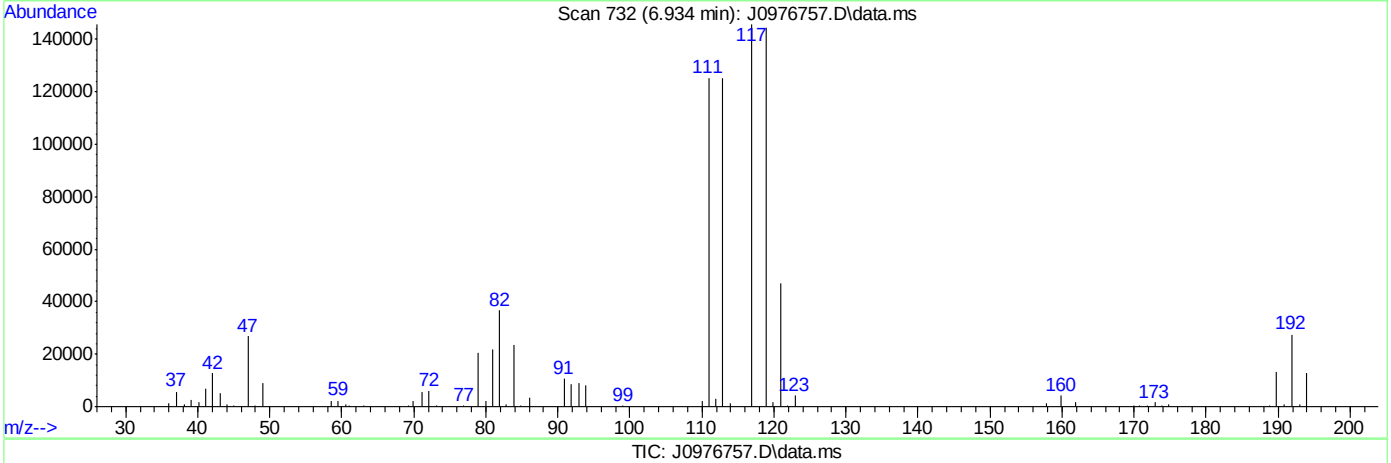
SGS ACCUTEST FA34224

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\052416\
Data File : J0976757.D
Acq On : 24 May 2016 12:04 pm
Operator : DARSHNAP
Sample : icc5312-5 Inst : MSVOA6
Misc : MS33959,VJ5312,,,,,
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 24 12:41:02 2016
Quant Method : C:\msdchem\2\methods\MSJ052316a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri May 13 08:29:47 2016
Response via : Initial Calibration





TIC: J0976757.D\data.ms

(37) Carbon Tetrachloride ( )

6.934min (+0.000) 42.46ug/L m

response 406273

Ion	Exp%	Act%
116.90	100	100
118.90	97.10	99.08
120.90	31.20	32.20
82.00	25.70	25.20

SGS ACCUTEST FA34224

Manual Integrations APPROVED (compounds with "m" flag)
Melissa Mangual 05/25/16 12:38

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\052416\
Data File : J0976758.D
Acq On : 24 May 2016 12:27 pm
Operator : DARSHNAP
Sample : ic5312-6 Inst : MSVOA6
Misc : MS33959,VJ5312,,,,,
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 24 12:45:55 2016
Quant Method : C:\msdchem\2\methods\MSJ052316a.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	1280904	50.00	ug/L	0.00
56) Chlorobenzene-d5	10.846	117	1065767	50.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	13.207	152	600882	50.00	ug/L	0.00
106) Tert Butyl Alcohol-d10	5.304	65	93305	250.00	ug/L	0.00
System Monitoring Compounds						
36) Dibromofluoromethane	6.928	113	327987	51.10	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 102.20%			
46) 1,2-Dichloroethane-d4	7.482	65	356013	47.45	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 94.90%			
57) Toluene-d8	9.301	98	1314963	47.91	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 95.82%			
79) 4-Bromofluorobenzene	12.051	95	550160	50.22	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 100.44%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.700	85	622649	110.81	ug/L	95
3) Chloromethane	2.913	50	665990	92.89	ug/L	99
4) Vinyl Chloride	3.059	62	653261	90.98	ug/L	97
5) 1,3-Butadiene	3.047	54	290472	Below Cal		89
6) Bromomethane	3.473	94	323465	89.77	ug/L	99
7) Chloroethane	3.619	64	208928	Below Cal		94
8) Trichlorofluoromethane	3.844	101	871393m	95.05	ug/L	
9) Ethyl Ether	4.118	59	394714	78.42	ug/L	98
10) 1,2-Dichlorotrifluoroe...	4.367	67	629702	80.53	ug/L	95
11) 1,1-Dichloroethene	4.398	61	791855	81.39	ug/L	94
12) Freon 113	4.471	101	557625	83.45	ug/L	96
13) Carbon Disulfide	4.477	76	1845406	82.93	ug/L	97
14) Iodomethane	4.586	142	894383	81.23	ug/L	98
15) Allyl chloride	4.927	41	705084	80.77	ug/L	97
16) Methylene Chloride	5.048	49	647938	77.82	ug/L	93
17) Acetone	5.073	58	152083	386.47	ug/L	100
18) Methyl acetate	5.194	74	287873	388.85	ug/L #	89
19) trans-1,2-Dichloroethene	5.231	61	698629	79.22	ug/L	92
20) Hexane	5.298	56	470650	77.47	ug/L	94
21) Methyl Tert Butyl Ether	5.341	73	1391651	74.11	ug/L	94
22) Acetonitrile	5.590	40	196485	792.83	ug/L	96
23) Di-isopropyl ether	5.718	45	1559800	74.95	ug/L	97
24) Chloroprene	5.876	53	812931	85.04	ug/L	95
25) 1,1-Dichloroethane	5.900	63	915587	79.22	ug/L	94
26) Acrylonitrile	5.925	53	588960	377.72	ug/L	95
27) ETBE	6.119	59	1615249	75.83	ug/L	98
28) Vinyl acetate	6.107	43	3735550	390.05	ug/L	98
29) cis-1,2-Dichloroethene	6.478	96	607557	79.41	ug/L	92
30) 2,2-Dichloropropane	6.612	77	769952	78.32	ug/L	100
31) Bromochloromethane	6.691	128	274584	77.99	ug/L	93
32) Cyclohexane	6.734	56	954159	86.54	ug/L	96
33) Chloroform	6.740	83	991879	79.08	ug/L	98
34) Ethyl acetate	6.807	43	1362592	383.39	ug/L	99

SGS ACCUTEST FA34224

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\052416\
Data File : J0976758.D
Acq On : 24 May 2016 12:27 pm
Operator : DARSHNAP
Sample : ic5312-6 Inst : MSVOA6
Misc : MS33959,VJ5312,,,,,
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 24 12:45:55 2016
Quant Method : C:\msdchem\2\methods\MSJ052316a.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	80986	74.03 ug/L	88
37) Carbon Tetrachloride	6.934	117	792008m	79.20 ug/L	
38) 1,1,1-Trichloroethane	6.995	97	907614	78.75 ug/L	97
39) 2-Butanone	7.026	43	603289	371.80 ug/L	100
40) 1,1-Dichloropropene	7.105	75	729786	81.32 ug/L	98
41) tert-Butyl Formate	7.190	59	3586162	843.04 ug/L	96
42) Propionitrile	7.336	54	435213	762.87 ug/L	96
43) Methacrylonitrile	7.360	41	1686249	709.40 ug/L	98
44) Benzene	7.360	78	2157111	80.49 ug/L	99
45) TAME	7.433	73	1484944	75.45 ug/L	99
47) 1,2-Dichloroethane	7.549	62	635915	74.95 ug/L	99
48) Trichloroethene	7.938	95	559244	79.67 ug/L	94
49) Methylcyclohexane	7.956	83	1057346	85.32 ug/L	98
50) Dibromomethane	8.358	93	291451	72.50 ug/L	95
51) 1,2-Dichloropropane	8.449	63	527685	77.95 ug/L	97
52) Bromodichloromethane	8.492	83	691449	77.18 ug/L	99
53) Methyl methacrylate	8.589	41	265411	75.15 ug/L	98
54) 2-Chloroethyl vinyl ether	9.009	63	1319769	394.44 ug/L	98
55) cis-1,3-Dichloropropene	9.112	75	837237	78.03 ug/L	94
58) Toluene	9.356	91	2253925	75.31 ug/L	95
59) 2-Nitropropane	9.556	41	388103	344.94 ug/L	98
60) 4-Methyl-2-pentanone	9.672	43	1475595	340.70 ug/L	96
61) trans-1,3-Dichloropropene	9.733	75	698358	71.64 ug/L	97
62) Tetrachloroethene	9.757	166	643154	80.61 ug/L	99
63) Ethyl methacrylate	9.836	69	540758	72.42 ug/L	96
64) 1,1,2-Trichloroethane	9.903	83	366150	72.34 ug/L	99
65) Dibromochloromethane	10.098	129	509446	73.09 ug/L	98
66) 1,3-Dichloropropane	10.183	76	738285	72.84 ug/L	99
67) 1,2-Dibromoethane	10.359	107	424028	70.66 ug/L	96
68) 2-hexanone	10.487	43	1045178	328.32 ug/L	98
69) 1-Chlorohexane	10.797	91	787816	83.13 ug/L	95
70) Ethylbenzene	10.858	91	2577442	76.34 ug/L	97
71) Chlorobenzene	10.864	112	1553308	75.85 ug/L	99
72) 1,1,1,2-Tetrachloroethane	10.913	131	531891	73.42 ug/L	98
73) m,p-Xylene	10.998	91	3714416	155.30 ug/L	92
74) o-Xylene	11.436	91	2107384	73.67 ug/L	97
75) Styrene	11.485	104	1709393	77.45 ug/L	100
76) Bromoform	11.546	173	331907	72.62 ug/L	98
77) Isopropylbenzene	11.740	105	2512932	76.46 ug/L	97
80) cis-1,4-Dichloro-2-butene	12.087	53	129211	70.77 ug/L	92
81) n-Propylbenzene	12.160	91	2954740	78.93 ug/L	96
82) Bromobenzene	12.185	156	707927	75.37 ug/L	96
83) 1,1,2,2-Tetrachloroethane	12.221	83	526638	71.72 ug/L	99
84) 1,3,5-Trimethylbenzene	12.343	105	2291839	77.14 ug/L	94
85) 2-Chlorotoluene	12.349	91	2126044	77.73 ug/L	97
86) trans-1,4-Dichloro-2-B...	12.397	53	121415	69.88 ug/L	89
87) 1,2,3-Trichloropropane	12.379	110	139140	71.29 ug/L	96
88) Cyclohexanone	12.446	55	78988	427.82 ug/L	94
89) 4-Chlorotoluene	12.519	91	1979230	76.16 ug/L	95
90) a-Methyl Styrene	12.604	118	1303362	76.98 ug/L	99

SGS ACCUTEST FA34224

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\052416\
Data File : J0976758.D
Acq On : 24 May 2016 12:27 pm
Operator : DARSHNAP
Sample : ic5312-6 Inst : MSVOA6
Misc : MS33959,VJ5312,,,,,
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 24 12:45:55 2016
Quant Method : C:\msdchem\2\methods\MSJ052316a.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	1293265	75.39	ug/L	98
92) 1,2,4-Trimethylbenzene	12.750	105	2258811	76.44	ug/L	96
93) Pentachloroethane	12.738	167	417515	68.45	ug/L	96
94) sec-Butylbenzene	12.866	105	2716321	77.14	ug/L	96
95) 4-Isopropyltoluene	13.000	119	2365311	75.25	ug/L	96
96) 1,3-Dichlorobenzene	13.134	146	1229713	74.23	ug/L	99
97) 1,4-Dichlorobenzene	13.219	146	1258959	74.77	ug/L	98
98) n-Butylbenzene	13.432	92	1373052	76.16	ug/L	91
99) Benzyl Chloride	13.444	126	204299	71.88	ug/L #	24
100) 1,2-Dichlorobenzene	13.645	146	1137000	74.13	ug/L	98
101) 1,2-Dibromo-3-Chloropr...	14.381	75	76066	72.31	ug/L	95
102) Hexachlorobutadiene	14.928	225	538787	75.26	ug/L	98
103) 1,2,4-Trichlorobenzene	14.971	180	812463	74.69	ug/L	99
104) Naphthalene	15.257	128	1199196	74.70	ug/L	98
105) 1,2,3-Trichlorobenzene	15.427	180	673961	73.33	ug/L	97
107) Ethanol	4.288	45	69337m	1502.80	ug/L	
108) acrolein	4.756	56	286868	326.08	ug/L	100
109) Tert Butyl Alcohol	5.377	59	321071	729.27	ug/L	92
110) tert Amyl alcohol	7.573	59	248936	704.16	ug/L	100
111) Isobutyl alcohol	7.452	42	198629	1338.94	ug/L	95
112) 1,4-Dioxane	8.674	88	73716	1461.95	ug/L	94
113) 3,3-Dimethyl-1-butanol	10.432	57	1496476	3881.83	ug/L	98

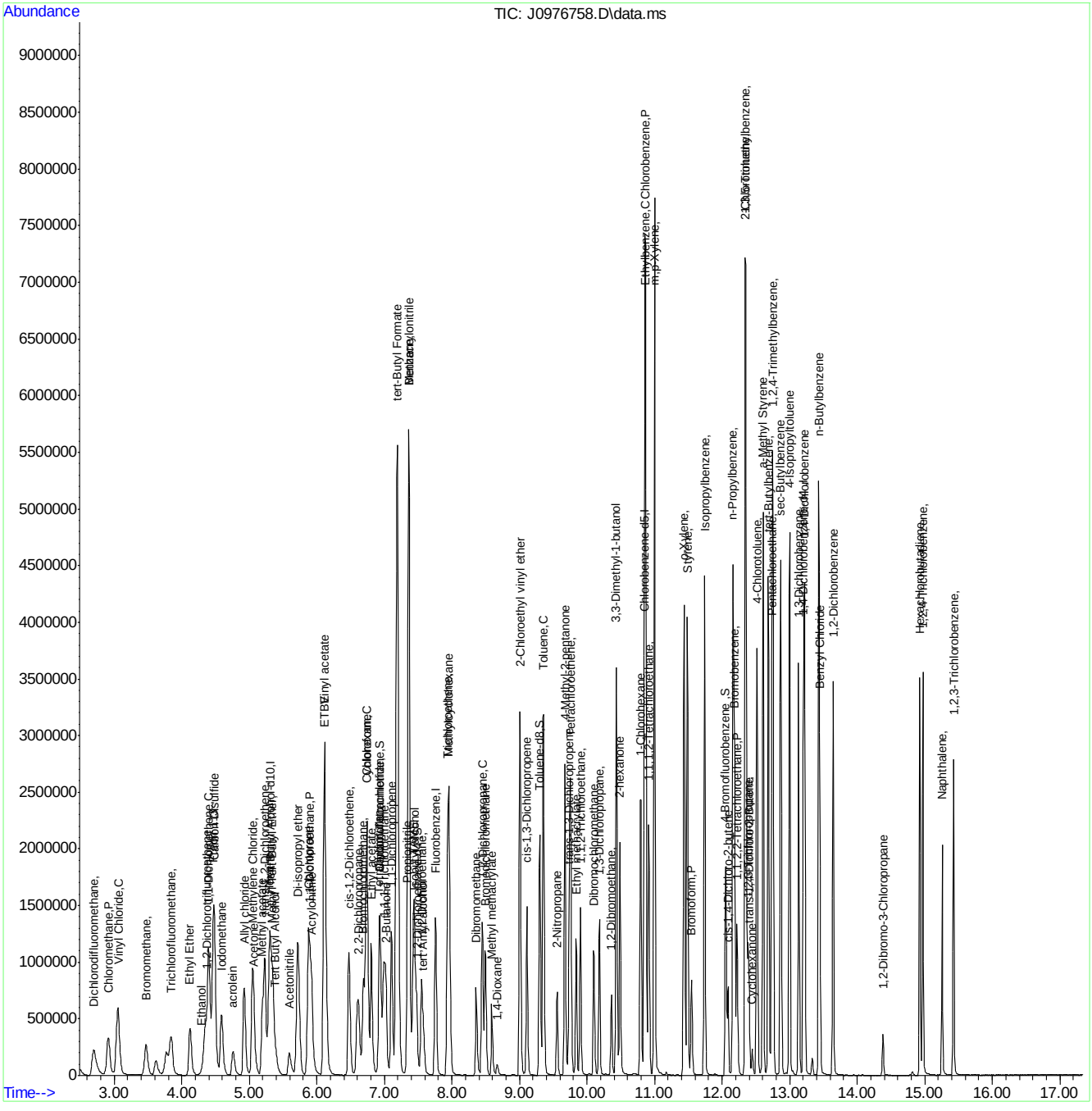
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST FA34224

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\052416\
Data File : J0976758.D
Acq On : 24 May 2016 12:27 pm
Operator : DARSHNAP
Sample : ic5312-6 Inst : MSVOA6
Misc : MS33959,VJ5312,,,,,
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 24 12:45:55 2016
Quant Method : C:\msdchem\2\methods\MSJ052316a.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 FA34224

Manual Integration Approval Summary

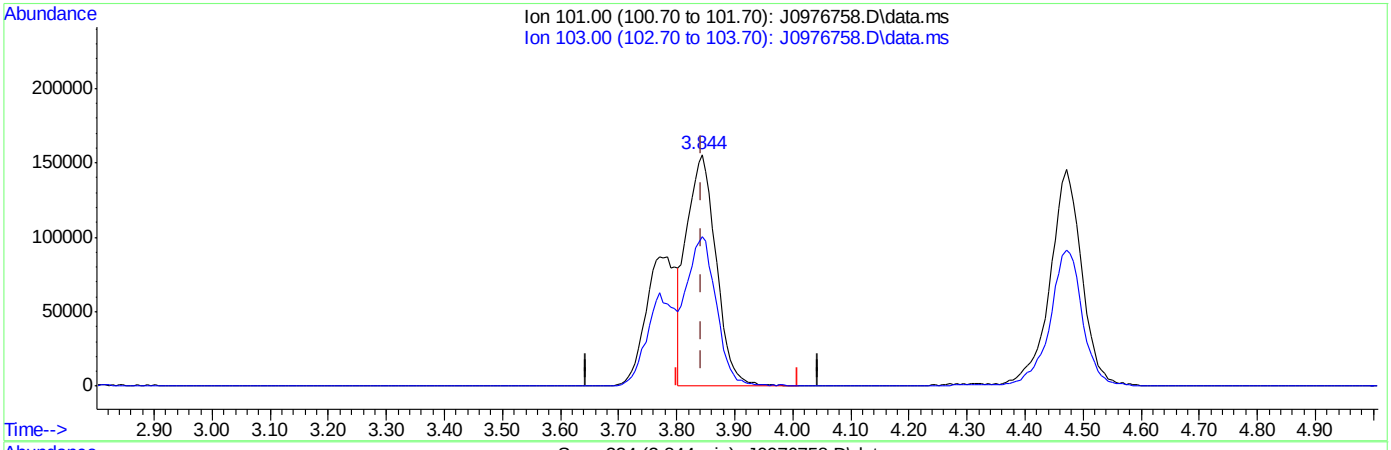
Sample Number:	VJ5312-IC5312	**Method:**	SW846 8260B
Lab FileID:	J0976758.D	**Analyst approved:**	05/25/16 11:19 Darshna Patel
Injection Time:	05/24/16 12:27	**Supervisor approved:**	05/25/16 12:38 Melissa Mangual

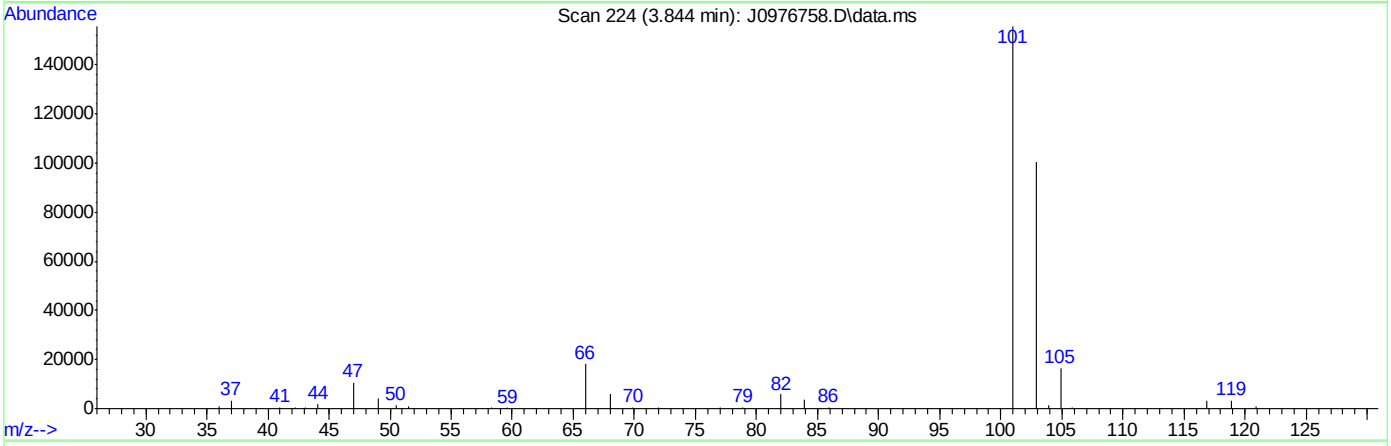
Parameter	CAS	Sig#	R.T. (min.)	Reason
Trichlorofluoromethane	75-69-4		3.84	Split peak
Ethyl Alcohol	64-17-5		4.29	Poor instrument integration
Carbon Tetrachloride	56-23-5		6.93	Overlapping peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\052416\
Data File : J0976758.D
Acq On : 24 May 2016 12:27 pm
Operator : DARSHNAP
Sample : ic5312-6 Inst : MSVOA6
Misc : MS33959,VJ5312,,,,,
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 24 12:44:53 2016
Quant Method : C:\msdchem\2\methods\MSJ052316a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri May 13 08:29:47 2016
Response via : Initial Calibration





TIC: J0976758.D\data.ms

(8) Trichlorofluoromethane ( )

3.844min (-0.000) 60.14ug/L

response 551340

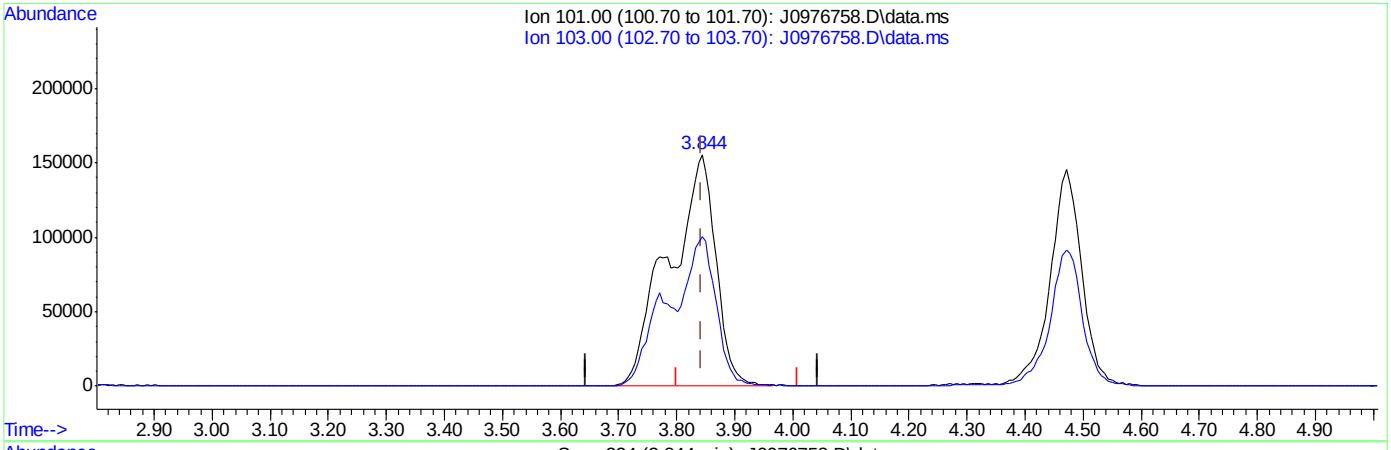
Ion	Exp%	Act%
101.00	100	100
103.00	59.70	64.47
0.00	0.00	0.00
0.00	0.00	0.00

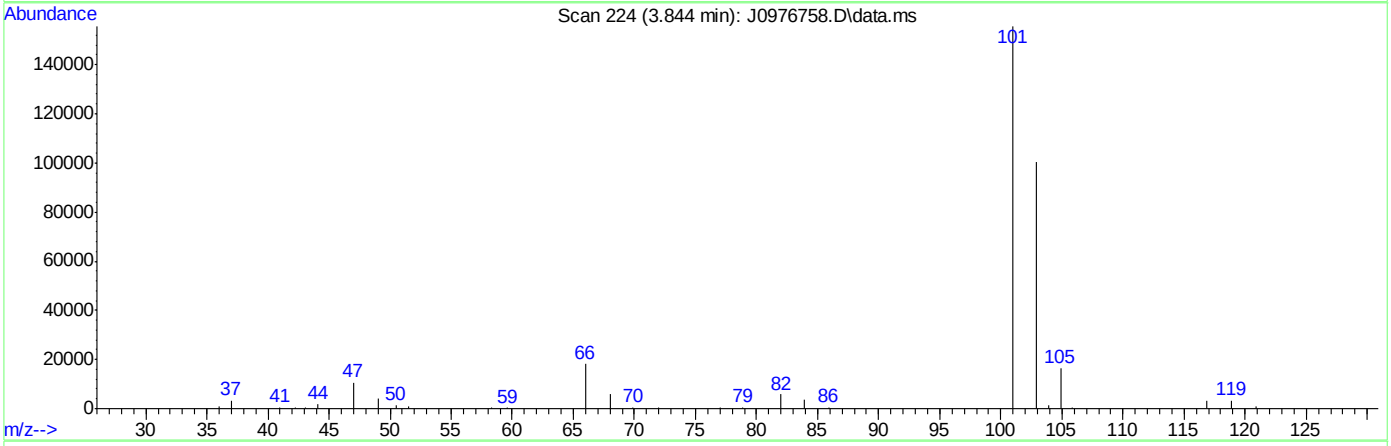
SGS ACCUTEST FA34224

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\052416\
Data File : J0976758.D
Acq On : 24 May 2016 12:27 pm
Operator : DARSHNAP
Sample : ic5312-6 Inst : MSVOA6
Misc : MS33959,VJ5312,,,,,
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 24 12:44:53 2016
Quant Method : C:\msdchem\2\methods\MSJ052316a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri May 13 08:29:47 2016
Response via : Initial Calibration





TIC: J0976758.D\data.ms

(8) Trichlorofluoromethane ( )

3.844min (-0.000) 95.05ug/L m

response 871393

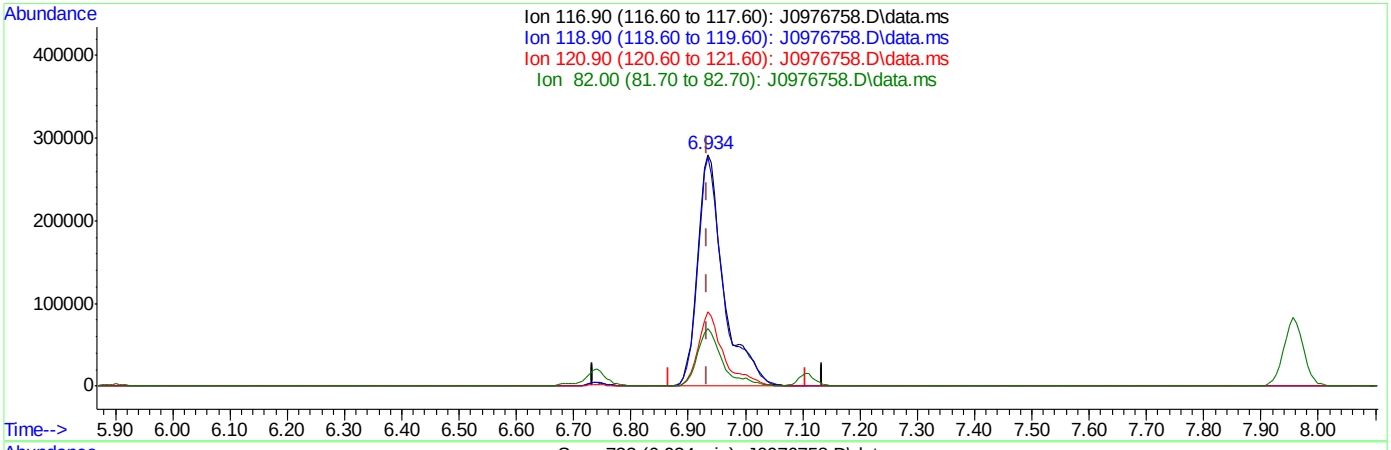
Ion	Exp%	Act%
101.00	100	100
103.00	59.70	64.53
0.00	0.00	0.00
0.00	0.00	0.00

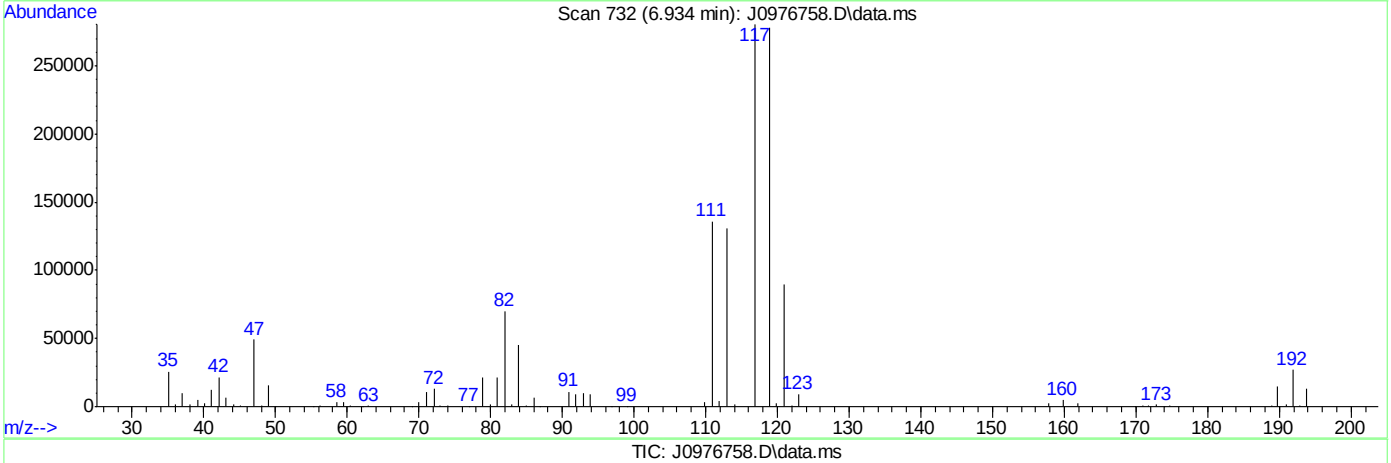
SGS ACCUTEST FA34224

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\052416\
Data File : J0976758.D
Acq On : 24 May 2016 12:27 pm
Operator : DARSHNAP
Sample : ic5312-6 Inst : MSVOA6
Misc : MS33959,VJ5312,,,,,
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 24 12:44:53 2016
Quant Method : C:\msdchem\2\methods\MSJ052316a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri May 13 08:29:47 2016
Response via : Initial Calibration





TIC: J0976758.D\data.ms

(37) Carbon Tetrachloride ( )

6.934min (+0.000) 89.29ug/L

response 892851

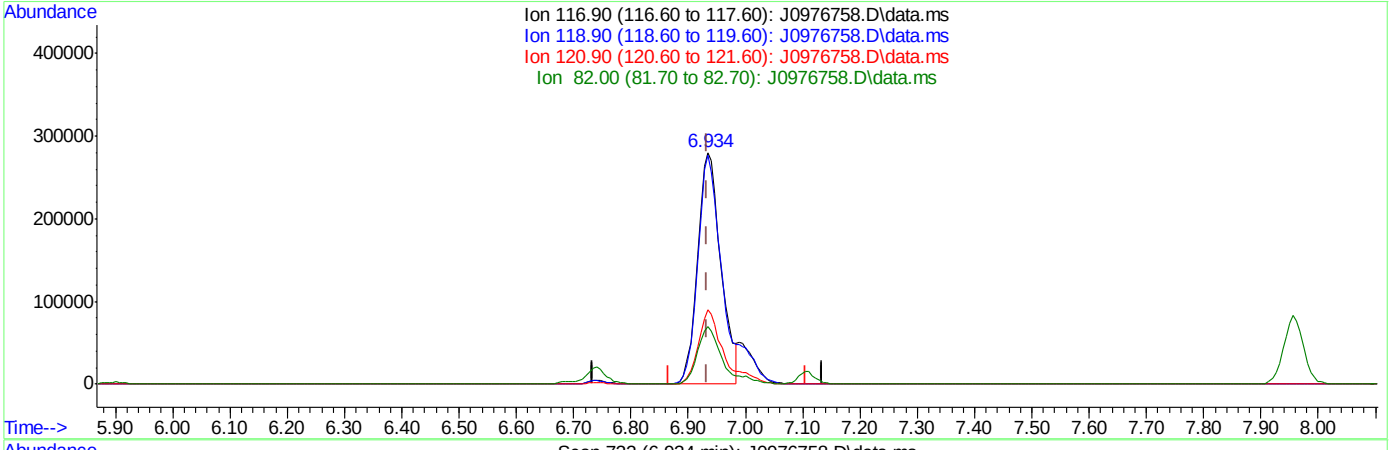
Ion	Exp%	Act%
116.90	100	100
118.90	97.10	99.06
120.90	31.20	31.87
82.00	25.70	24.99

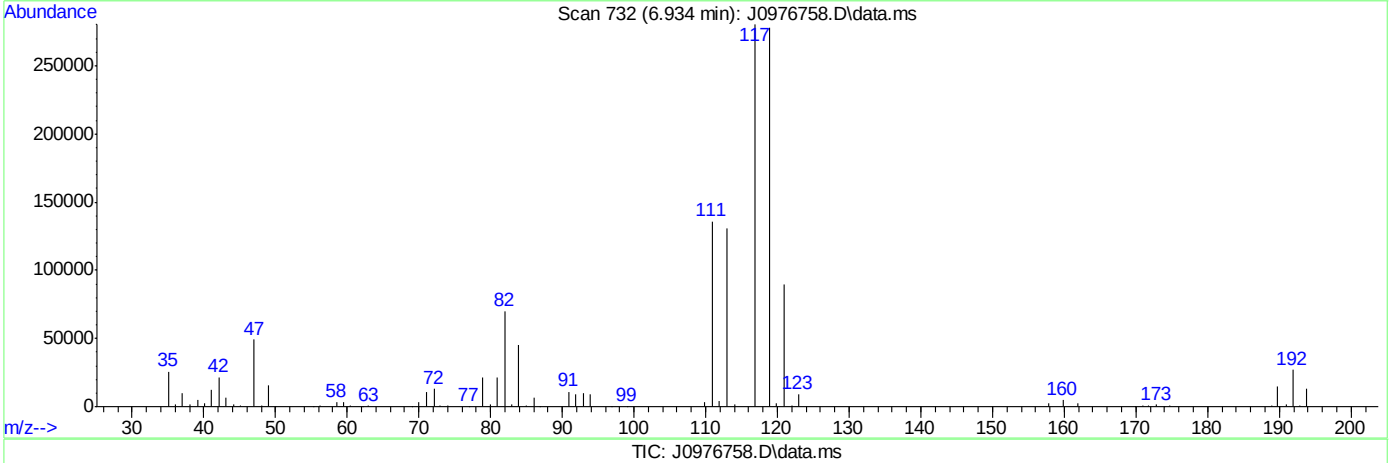
SGS ACCUTEST FA34224

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\052416\
Data File : J0976758.D
Acq On : 24 May 2016 12:27 pm
Operator : DARSHNAP
Sample : ic5312-6 Inst : MSVOA6
Misc : MS33959,VJ5312,,,,,
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 24 12:44:53 2016
Quant Method : C:\msdchem\2\methods\MSJ052316a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri May 13 08:29:47 2016
Response via : Initial Calibration





TIC: J0976758.D\data.ms

(37) Carbon Tetrachloride ( )

6.934min (+0.000) 79.20ug/L m

response 792008

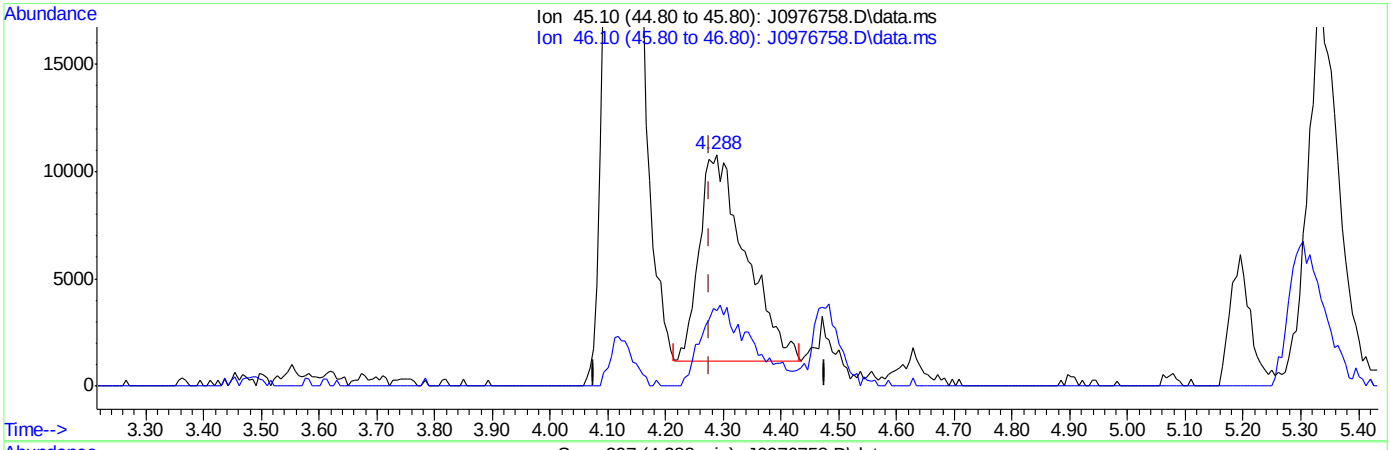
Ion	Exp%	Act%
116.90	100	100
118.90	97.10	99.06
120.90	31.20	31.87
82.00	25.70	24.99

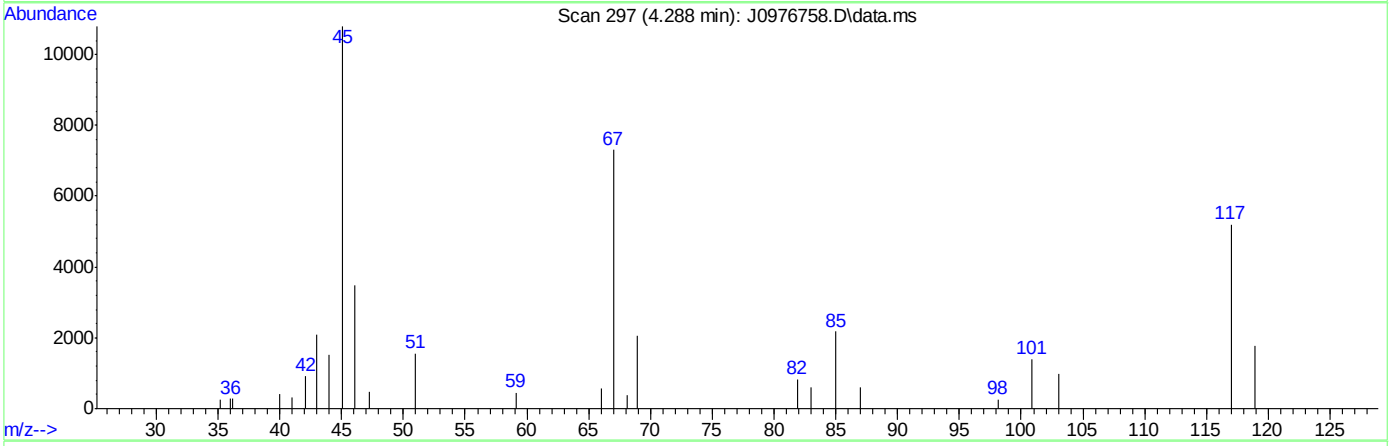
SGS ACCUTEST FA34224

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\052416\
Data File : J0976758.D
Acq On : 24 May 2016 12:27 pm
Operator : DARSHNAP
Sample : ic5312-6 Inst : MSVOA6
Misc : MS33959,VJ5312,,,,,
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 24 12:44:53 2016
Quant Method : C:\msdchem\2\methods\MSJ052316a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri May 13 08:29:47 2016
Response via : Initial Calibration





TIC: J0976758.D\data.ms

(107) Ethanol

4.288min (+0.012) 1163.71ug/L

response 53692

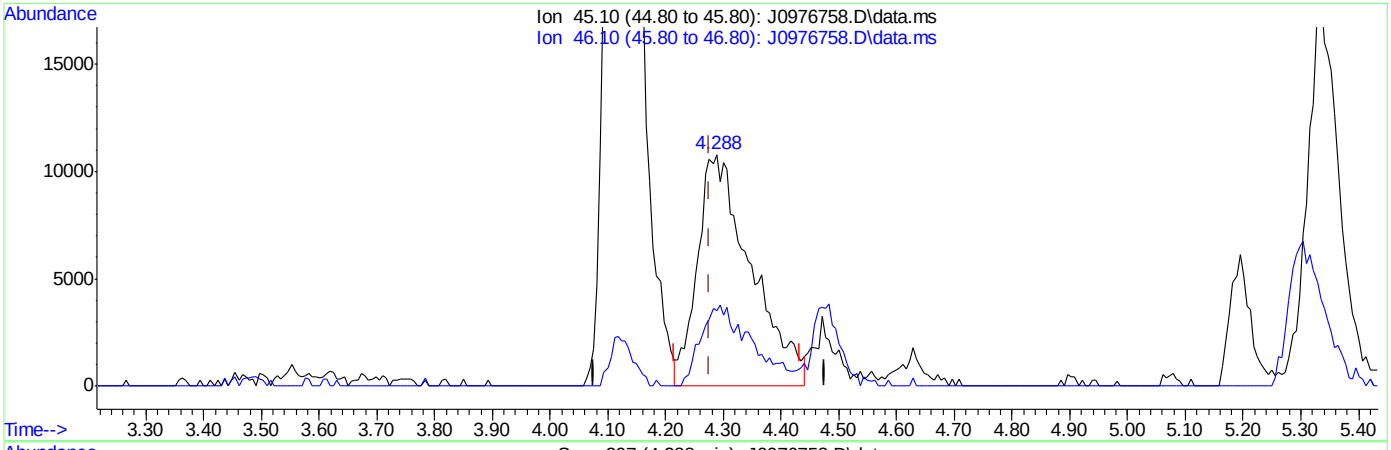
Ion	Exp%	Act%
45.10	100	100
46.10	35.30	36.23
0.00	0.00	0.00
0.00	0.00	0.00

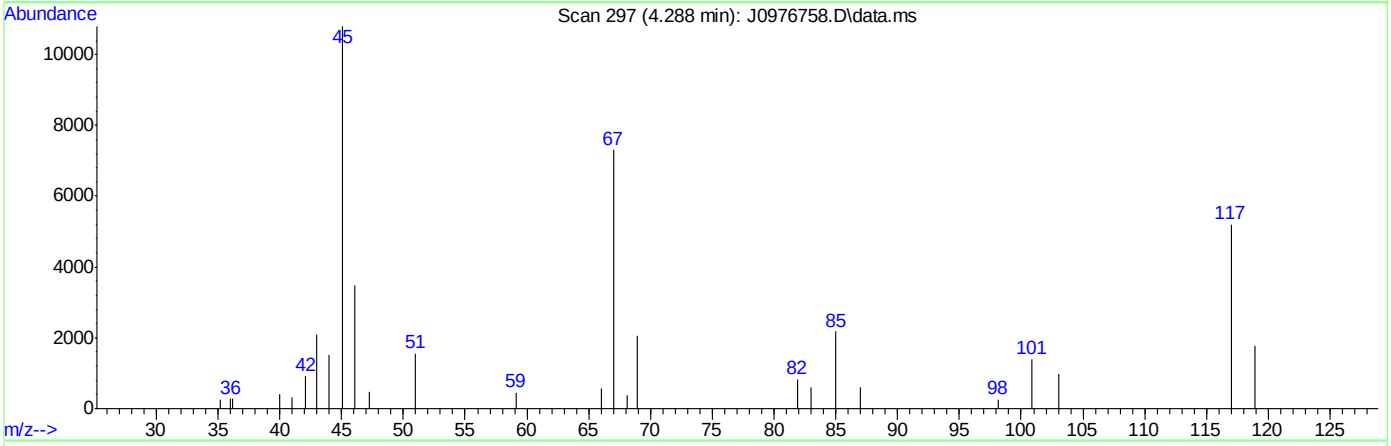
SGS ACCUTEST FA34224

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\052416\
Data File : J0976758.D
Acq On : 24 May 2016 12:27 pm
Operator : DARSHNAP
Sample : ic5312-6 Inst : MSVOA6
Misc : MS33959,VJ5312,,,,,
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 24 12:44:53 2016
Quant Method : C:\msdchem\2\methods\MSJ052316a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri May 13 08:29:47 2016
Response via : Initial Calibration





TIC: J0976758.D\data.ms

(107) Ethanol

4.288min (+0.012) 1502.80ug/L m

response 69337

Ion	Exp%	Act%
45.10	100	100
46.10	35.30	32.36
0.00	0.00	0.00
0.00	0.00	0.00

SGS ACCUTEST FA34224

J0976759.D

Manual Integrations APPROVED (compounds with "m" flag)

Melissa Mangual 05/25/16 12:38

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\052416\
Data File : J0976759.D
Acq On : 24 May 2016 12:49 pm
Operator : DARSHNAP
Sample : ic5312-7 Inst : MSVOA6
Misc : MS33959,VJ5312,,,,,
ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 24 13:07:53 2016
Quant Method : C:\msdchem\2\methods\MSJ052316a.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	1317935	50.00	ug/L	0.00
56) Chlorobenzene-d5	10.846	117	1089402	50.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	13.207	152	619907	50.00	ug/L	0.00
106) Tert Butyl Alcohol-d10	5.304	65	101570	250.00	ug/L	0.00
System Monitoring Compounds						
36) Dibromofluoromethane	6.928	113	331927	50.27	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 100.54%			
46) 1,2-Dichloroethane-d4	7.476	65	354603	45.93	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 91.86%			
57) Toluene-d8	9.301	98	1334230	47.55	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 95.10%			
79) 4-Bromofluorobenzene	12.051	95	559540	49.50	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 99.00%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.694	85	900978	148.55	ug/L	97
3) Chloromethane	2.907	50	962070	125.07	ug/L	98
4) Vinyl Chloride	3.053	62	923907	125.25	ug/L	95
5) 1,3-Butadiene	3.047	54	399558	Below Cal		87
6) Bromomethane	3.467	94	430398	Below Cal		99
7) Chloroethane	3.607	64	227279	Below Cal		96
8) Trichlorofluoromethane	3.832	101	1213819m	128.68	ug/L	
9) Ethyl Ether	4.118	59	567557	110.45	ug/L	98
10) 1,2-Dichlorotrifluoroe...	4.355	67	888712	110.46	ug/L	98
11) 1,1-Dichloroethene	4.398	61	1110000	109.25	ug/L	95
12) Freon 113	4.465	101	793235	114.04	ug/L	99
13) Carbon Disulfide	4.471	76	2582458	110.30	ug/L	96
14) Iodomethane	4.586	142	1283138	110.60	ug/L	98
15) Allyl chloride	4.921	41	1008810	108.30	ug/L	96
16) Methylene Chloride	5.042	49	898337	107.14	ug/L	92
17) Acetone	5.067	58	213585	527.51	ug/L	94
18) Methyl acetate	5.195	74	417392	547.95	ug/L #	80
19) trans-1,2-Dichloroethene	5.225	61	997125	109.18	ug/L	93
20) Hexane	5.298	56	658147	105.29	ug/L	93
21) Methyl Tert Butyl Ether	5.335	73	2003532	103.70	ug/L	96
22) Acetonitrile	5.584	40	277783	1073.10	ug/L	95
23) Di-isopropyl ether	5.718	45	2237639	104.50	ug/L	95
24) Chloroprene	5.870	53	1157843	111.72	ug/L	96
25) 1,1-Dichloroethane	5.894	63	1306499	111.26	ug/L	95
26) Acrylonitrile	5.925	53	877068	546.69	ug/L	94
27) ETBE	6.119	59	2299342	104.91	ug/L	96
28) Vinyl acetate	6.107	43	5180415	525.72	ug/L	97
29) cis-1,2-Dichloroethene	6.472	96	877643	110.37	ug/L	91
30) 2,2-Dichloropropane	6.606	77	1109329	109.66	ug/L	100
31) Bromochloromethane	6.685	128	397651	110.03	ug/L	96
32) Cyclohexane	6.734	56	1333805	117.57	ug/L	94
33) Chloroform	6.740	83	1414752	111.66	ug/L	98
34) Ethyl acetate	6.807	43	1962715	536.73	ug/L	100

SGS ACCUTEST FA34224

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\052416\
Data File : J0976759.D
Acq On : 24 May 2016 12:49 pm
Operator : DARSHNAP
Sample : ic5312-7 Inst : MSVOA6
Misc : MS33959,VJ5312,,,,,
ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 24 13:07:53 2016
Quant Method : C:\msdchem\2\methods\MSJ052316a.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	119656	105.46 ug/L	90
37) Carbon Tetrachloride	6.934	117	1106213m	107.52 ug/L	
38) 1,1,1-Trichloroethane	6.995	97	1305413	110.08 ug/L	96
39) 2-Butanone	7.020	43	867681	532.88 ug/L	98
40) 1,1-Dichloropropene	7.105	75	1031234	111.68 ug/L	96
41) tert-Butyl Formate	7.190	59	4753340	1086.03 ug/L	94
42) Propionitrile	7.330	54	621234	1058.34 ug/L	80
43) Methacrylonitrile	7.360	41	2334567	954.55 ug/L	99
44) Benzene	7.354	78	2992761	113.34 ug/L	99
45) TAME	7.433	73	2125296	104.95 ug/L	98
47) 1,2-Dichloroethane	7.549	62	910779	111.54 ug/L	98
48) Trichloroethene	7.932	95	786540	110.57 ug/L	96
49) Methylcyclohexane	7.957	83	1473752	115.58 ug/L	99
50) Dibromomethane	8.358	93	416914	100.79 ug/L	95
51) 1,2-Dichloropropane	8.449	63	755141	110.82 ug/L	98
52) Bromodichloromethane	8.492	83	1000002	111.08 ug/L	100
53) Methyl methacrylate	8.589	41	389546	106.40 ug/L	91
54) 2-Chloroethyl vinyl ether	9.009	63	1868281	553.58 ug/L	98
55) cis-1,3-Dichloropropene	9.106	75	1197032	108.43 ug/L	97
58) Toluene	9.350	91	3106720	106.21 ug/L	92
59) 2-Nitropropane	9.556	41	568151	509.62 ug/L	99
60) 4-Methyl-2-pentanone	9.672	43	2064598	499.42 ug/L	95
61) trans-1,3-Dichloropropene	9.733	75	1010215	101.38 ug/L	99
62) Tetrachloroethene	9.757	166	865365	106.10 ug/L	98
63) Ethyl methacrylate	9.836	69	793501	101.65 ug/L	95
64) 1,1,2-Trichloroethane	9.903	83	524602	103.83 ug/L	98
65) Dibromochloromethane	10.098	129	733723	103.22 ug/L	97
66) 1,3-Dichloropropane	10.183	76	1057316	105.64 ug/L	98
67) 1,2-Dibromoethane	10.360	107	617049	100.60 ug/L	94
68) 2-hexanone	10.487	43	1479779	454.75 ug/L	96
69) 1-Chlorohexane	10.798	91	1107564	114.34 ug/L	93
70) Ethylbenzene	10.858	91	3447300	108.30 ug/L	91
71) Chlorobenzene	10.864	112	2155757	107.70 ug/L	97
72) 1,1,1,2-Tetrachloroethane	10.913	131	765324	103.27 ug/L	99
73) m,p-Xylene	10.998	91	4737126	224.13 ug/L	81
74) o-Xylene	11.436	91	2894737	99.00 ug/L	93
75) Styrene	11.485	104	2391969	106.02 ug/L	98
76) Bromoform	11.546	173	480201	101.95 ug/L	99
77) Isopropylbenzene	11.741	105	3386346	105.13 ug/L	92
80) cis-1,4-Dichloro-2-butene	12.087	53	190135	100.95 ug/L	93
81) n-Propylbenzene	12.160	91	3870026	111.58 ug/L	90
82) Bromobenzene	12.185	156	1009437	107.42 ug/L	97
83) 1,1,2,2-Tetrachloroethane	12.221	83	757574	105.25 ug/L	97
84) 1,3,5-Trimethylbenzene	12.343	105	3097301	107.55 ug/L	90
85) 2-Chlorotoluene	12.349	91	2864263	110.52 ug/L	93
86) trans-1,4-Dichloro-2-B...	12.398	53	173283	96.68 ug/L	88
87) 1,2,3-Trichloropropane	12.379	110	204260	106.52 ug/L	96
88) Cyclohexanone	12.446	55	107544	562.49 ug/L	94
89) 4-Chlorotoluene	12.519	91	2731345	108.58 ug/L	93
90) a-Methyl Styrene	12.604	118	1851002	104.82 ug/L	99

SGS ACCUTEST FA34224

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\052416\
Data File : J0976759.D
Acq On : 24 May 2016 12:49 pm
Operator : DARSHNAP
Sample : ic5312-7 Inst : MSVOA6
Misc : MS33959,VJ5312,,,,,
ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 24 13:07:53 2016
Quant Method : C:\msdchem\2\methods\MSJ052316a.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	1811694	105.73	ug/L	98
92) 1,2,4-Trimethylbenzene	12.750	105	3071828	107.85	ug/L	90
93) Pentachloroethane	12.738	167	649985	101.60	ug/L	94
94) sec-Butylbenzene	12.866	105	3635280	107.45	ug/L	91
95) 4-Isopropyltoluene	13.000	119	3169395	97.74	ug/L	91
96) 1,3-Dichlorobenzene	13.134	146	1746807	105.31	ug/L	98
97) 1,4-Dichlorobenzene	13.219	146	1776412	106.94	ug/L	98
98) n-Butylbenzene	13.432	92	1924322	103.46	ug/L	84
99) Benzyl Chloride	13.444	126	306910	104.26	ug/L #	44
100) 1,2-Dichlorobenzene	13.645	146	1615407	105.66	ug/L	97
101) 1,2-Dibromo-3-Chloropr...	14.381	75	109179	99.85	ug/L	90
102) Hexachlorobutadiene	14.928	225	775073	102.94	ug/L	98
103) 1,2,4-Trichlorobenzene	14.971	180	1159678	104.11	ug/L	98
104) Naphthalene	15.257	128	1735427	104.85	ug/L	98
105) 1,2,3-Trichlorobenzene	15.427	180	985709	103.74	ug/L	98
107) Ethanol	4.288	45	100122m	1993.45	ug/L	
108) acrolein	4.757	56	410812	428.96	ug/L	99
109) Tert Butyl Alcohol	5.383	59	460625	998.99	ug/L	85
110) tert Amyl alcohol	7.573	59	373148	1013.36	ug/L	97
111) Isobutyl alcohol	7.452	42	291561	1990.90	ug/L	95
112) 1,4-Dioxane	8.668	88	111104	2099.52	ug/L	95
113) 3,3-Dimethyl-1-butanol	10.433	57	2032943	4986.67	ug/L	98

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

7.6.7

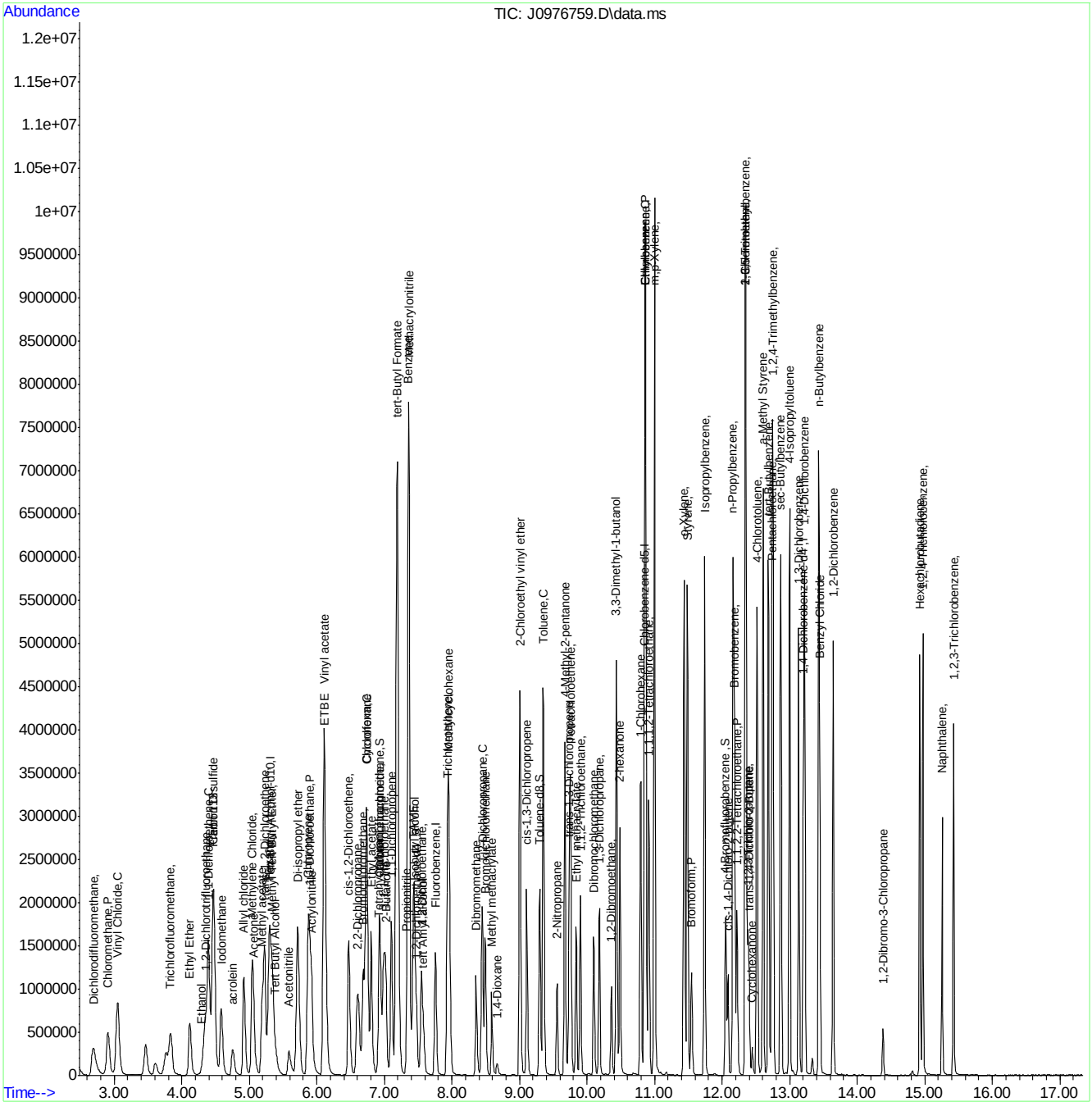
7

SGS ACCUTEST FA34224

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\052416\
Data File : J0976759.D
Acq On : 24 May 2016 12:49 pm
Operator : DARSHNAP
Sample : ic5312-7 Inst : MSVOA6
Misc : MS33959,VJ5312,,,,,
ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 24 13:07:53 2016
Quant Method : C:\msdchem\2\methods\MSJ052316a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri May 13 08:29:47 2016
Response via : Initial Calibration



Manual Integration Approval Summary

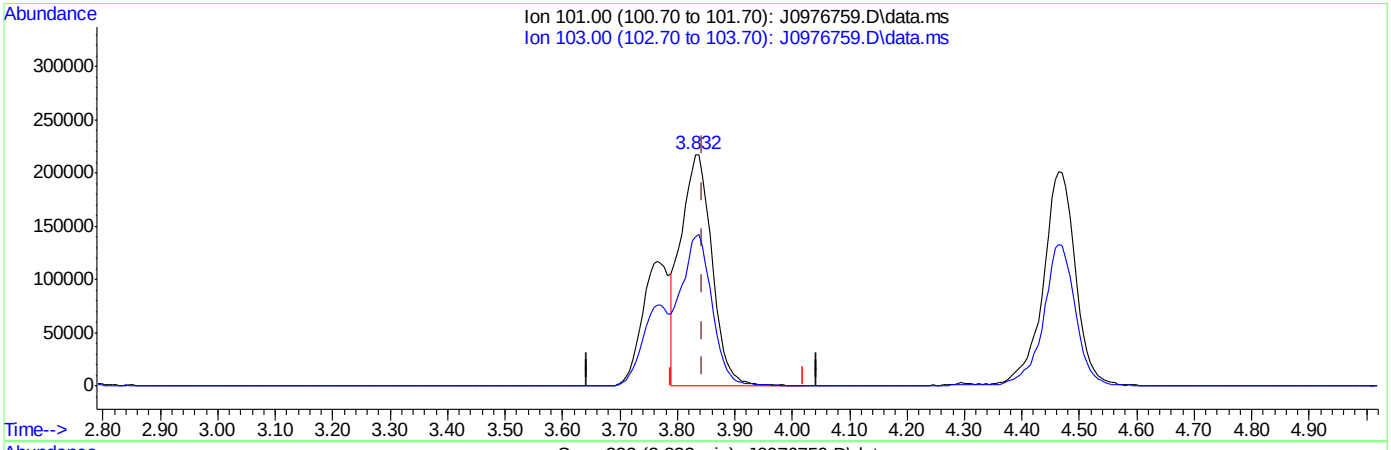
Sample Number:	VJ5312-IC5312	**Method:**	SW846 8260B
Lab FileID:	J0976759.D	**Analyst approved:**	05/25/16 11:19 Darshna Patel
Injection Time:	05/24/16 12:49	**Supervisor approved:**	05/25/16 12:38 Melissa Mangual

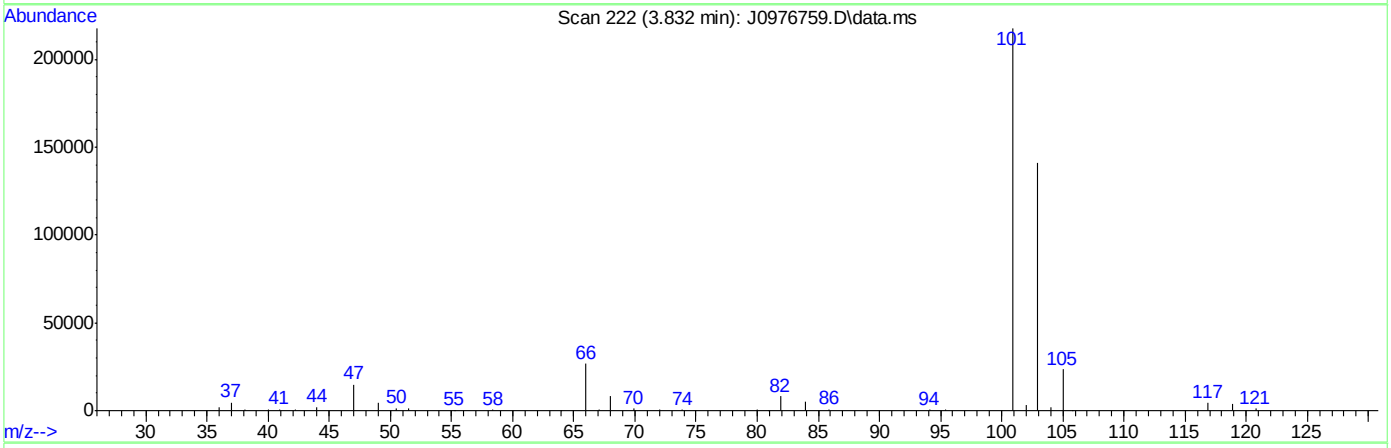
Parameter	CAS	Sig#	R.T. (min.)	Reason
Trichlorofluoromethane	75-69-4		3.83	Split peak
Ethyl Alcohol	64-17-5		4.29	Poor instrument integration
Carbon Tetrachloride	56-23-5		6.93	Overlapping peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\052416\
Data File : J0976759.D
Acq On : 24 May 2016 12:49 pm
Operator : DARSHNAP
Sample : ic5312-7 Inst : MSVOA6
Misc : MS33959,VJ5312,,,,,
ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 24 13:07:16 2016
Quant Method : C:\msdchem\2\methods\MSJ052316a.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 ( )

3.832min (-0.012) 86.65ug/L

response 817370

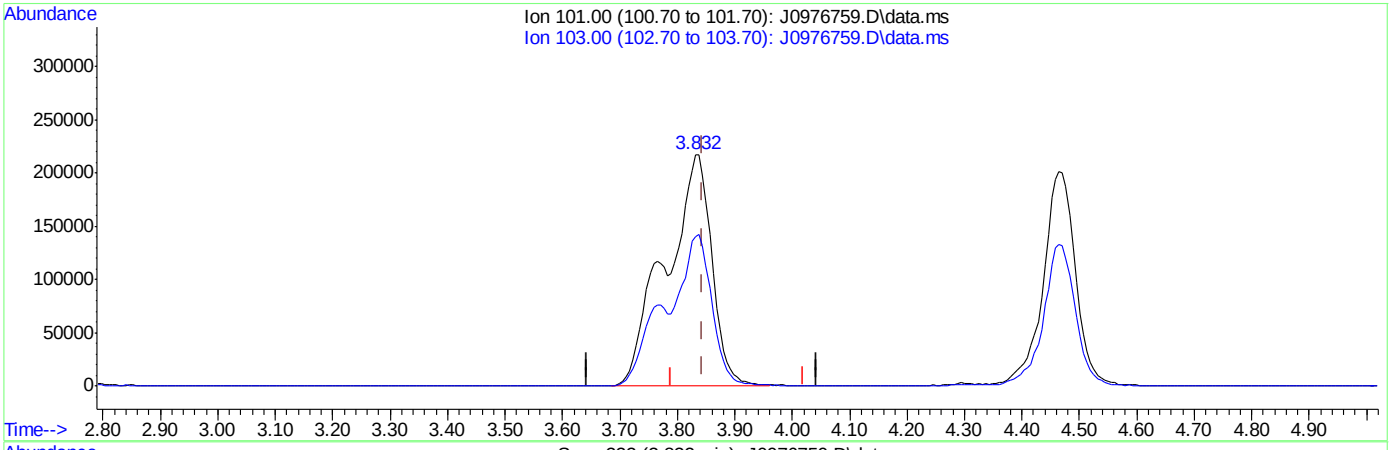
Ion	Exp%	Act%
101.00	100	100
103.00	59.70	64.66
0.00	0.00	0.00
0.00	0.00	0.00

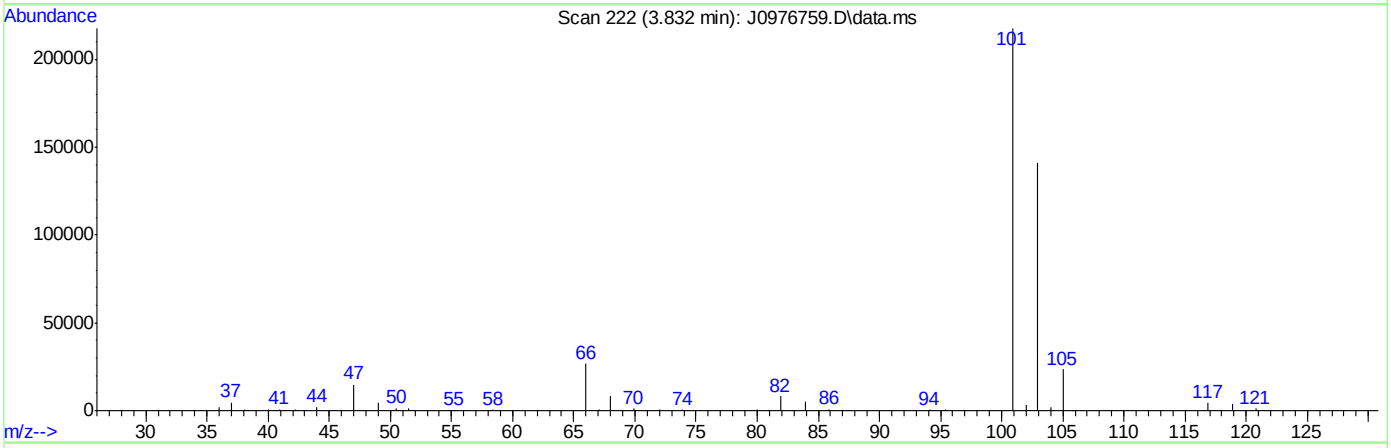
SGS ACCUTEST FA34224

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\052416\
Data File : J0976759.D
Acq On : 24 May 2016 12:49 pm
Operator : DARSHNAP
Sample : ic5312-7 Inst : MSVOA6
Misc : MS33959,VJ5312,,,,,
ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 24 13:07:16 2016
Quant Method : C:\msdchem\2\methods\MSJ052316a.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 ( )

3.832min (-0.012) 128.68ug/L m

response 1213819

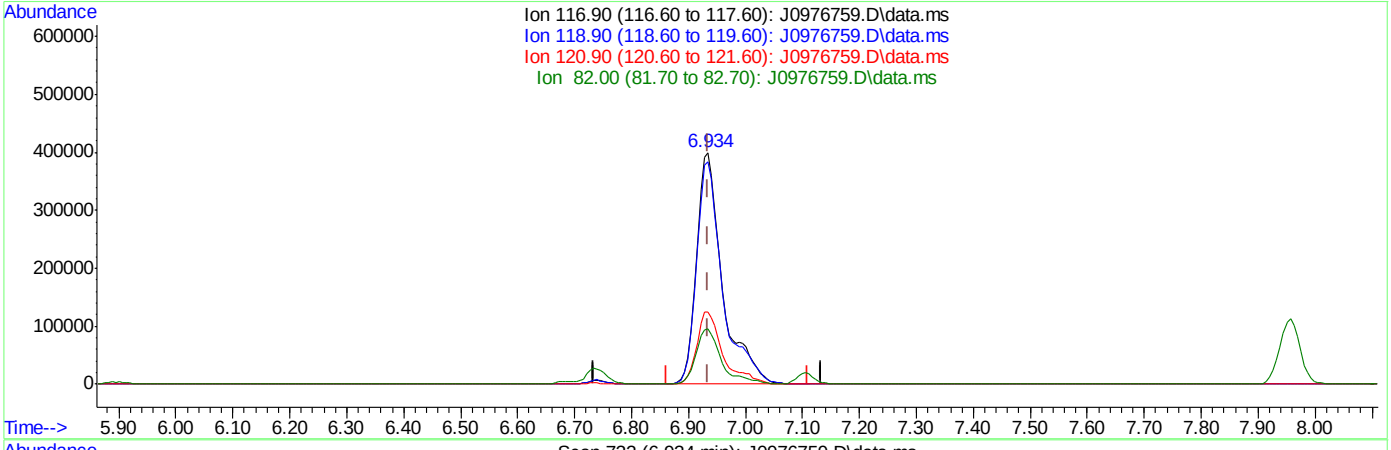
Ion	Exp%	Act%
101.00	100	100
103.00	59.70	64.70
0.00	0.00	0.00
0.00	0.00	0.00

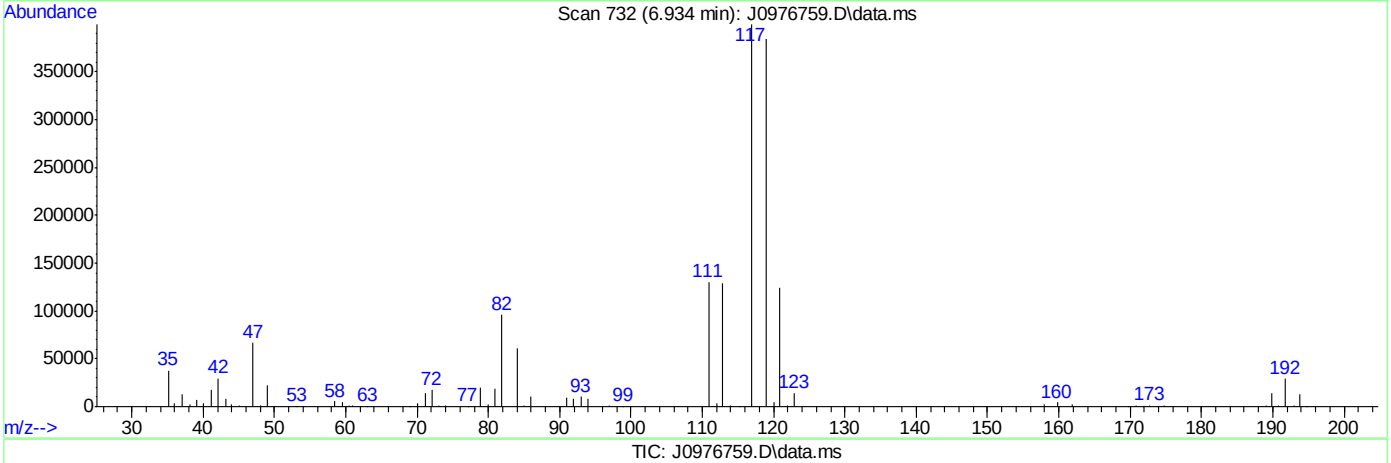
SGS ACCUTEST FA34224

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\052416\
Data File : J0976759.D
Acq On : 24 May 2016 12:49 pm
Operator : DARSHNAP
Sample : ic5312-7 Inst : MSVOA6
Misc : MS33959,VJ5312,,,,,
ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 24 13:07:16 2016
Quant Method : C:\msdchem\2\methods\MSJ052316a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri May 13 08:29:47 2016
Response via : Initial Calibration





TIC: J0976759.D\data.ms

(37) Carbon Tetrachloride ( )

6.934min (+0.000) 123.58ug/L

response 1271544

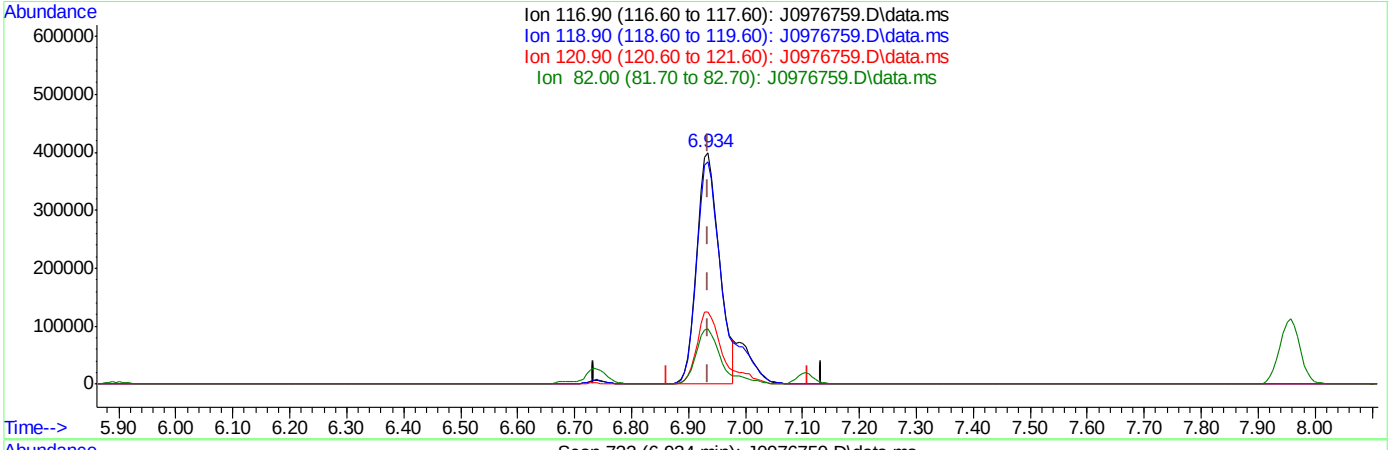
Ion	Exp%	Act%
116.90	100	100
118.90	97.10	96.06
120.90	31.20	31.15
82.00	25.70	23.99

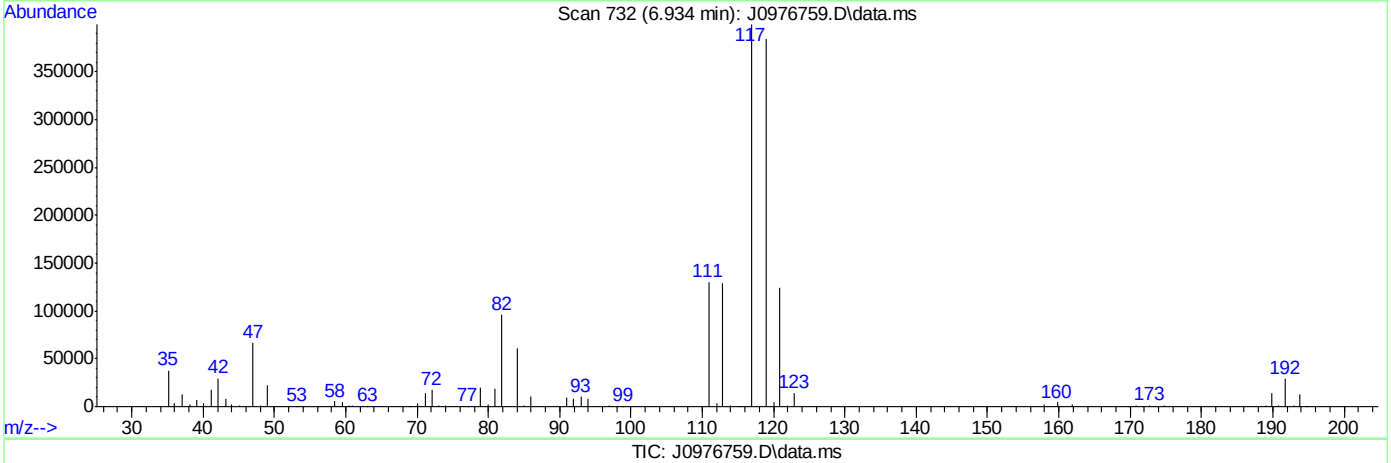
SGS ACCUTEST FA34224

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\052416\
Data File : J0976759.D
Acq On : 24 May 2016 12:49 pm
Operator : DARSHNAP
Sample : ic5312-7 Inst : MSVOA6
Misc : MS33959,VJ5312,,,,,
ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 24 13:07:16 2016
Quant Method : C:\msdchem\2\methods\MSJ052316a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri May 13 08:29:47 2016
Response via : Initial Calibration





(37) Carbon Tetrachloride ( )

6.934min (+0.000) 107.52ug/L m

response 1106213

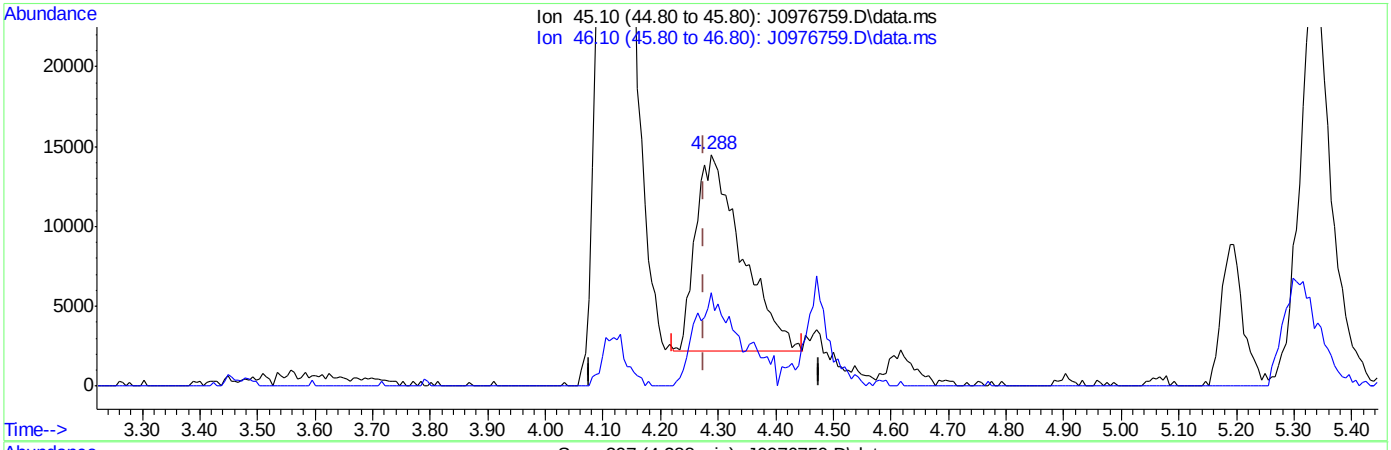
Ion	Exp%	Act%
116.90	100	100
118.90	97.10	96.06
120.90	31.20	31.15
82.00	25.70	23.99

SGS ACCUTEST FA34224

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\052416\
Data File : J0976759.D
Acq On : 24 May 2016 12:49 pm
Operator : DARSHNAP
Sample : ic5312-7 Inst : MSVOA6
Misc : MS33959,VJ5312,,,,,
ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 24 13:07:16 2016
Quant Method : C:\msdchem\2\methods\MSJ052316a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri May 13 08:29:47 2016
Response via : Initial Calibration



TIC: J0976759.D\data.ms

(107) Ethanol

4.288min (+0.012) 1372.83ug/L

response 68951

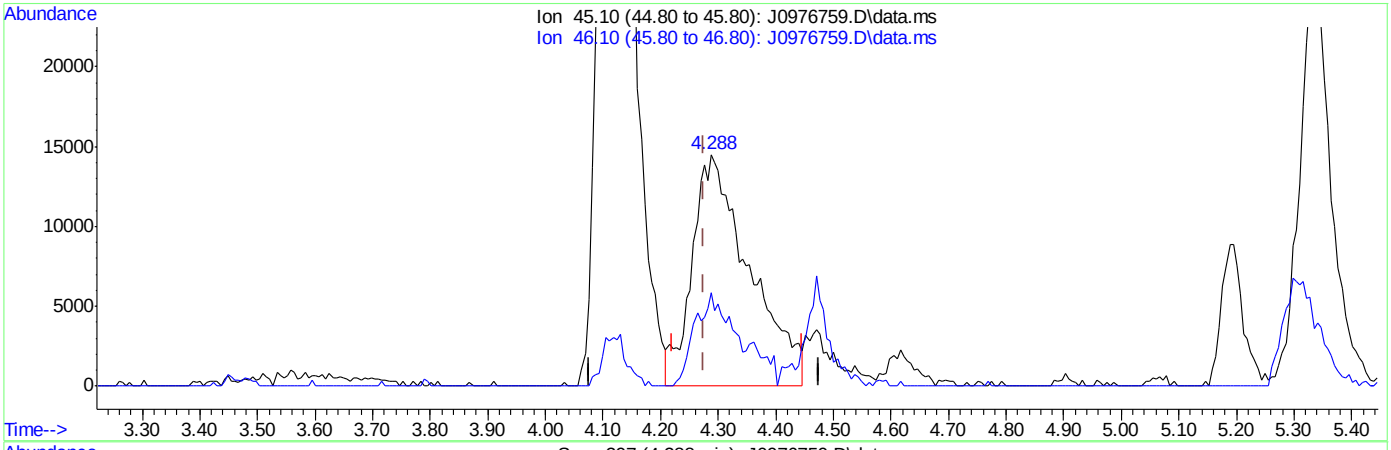
Ion	Exp%	Act%
45.10	100	100
46.10	35.30	47.55
0.00	0.00	0.00
0.00	0.00	0.00

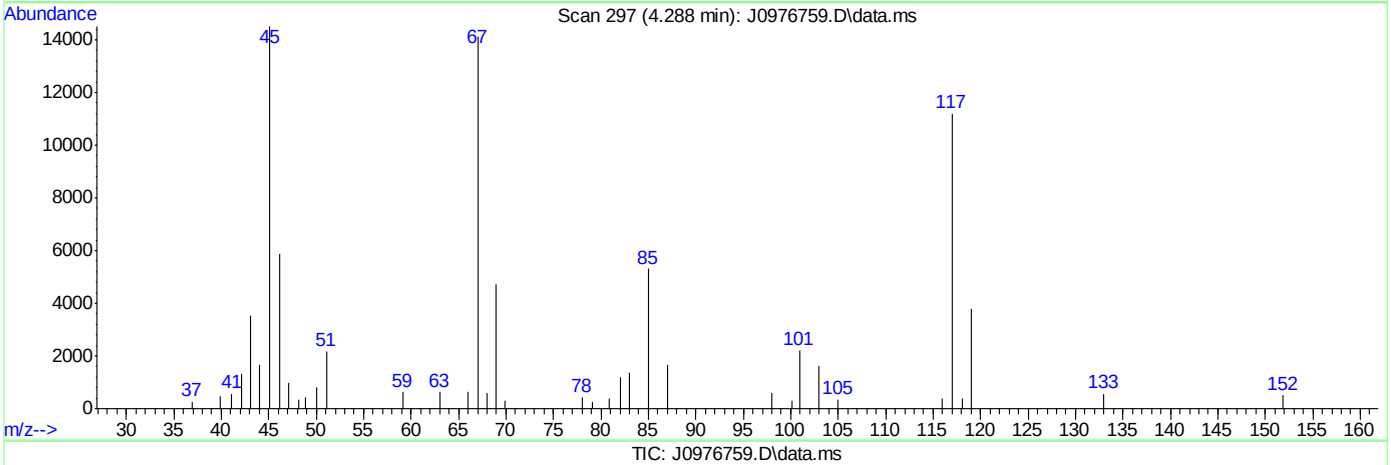
SGS ACCUTEST FA34224

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\052416\
Data File : J0976759.D
Acq On : 24 May 2016 12:49 pm
Operator : DARSHNAP
Sample : ic5312-7 Inst : MSVOA6
Misc : MS33959,VJ5312,,,,,
ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 24 13:07:16 2016
Quant Method : C:\msdchem\2\methods\MSJ052316a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri May 13 08:29:47 2016
Response via : Initial Calibration





TIC: J0976759.D\data.ms

(107) Ethanol

4.288min (+0.012) 1993.45ug/L m

response 100122

Ion	Exp%	Act%
45.10	100	100
46.10	35.30	40.42
0.00	0.00	0.00
0.00	0.00	0.00

SGS ACCUTEST FA34224

Manual Integrations APPROVED (compounds with "m" flag)
Melissa Mangual
05/25/16 12:38

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\052416\
Data File : J0976761.D
Acq On : 24 May 2016 1:36 pm
Operator : DARSHNAP
Sample : icv5312-5 Inst : MSVOA6
Misc : MS33959,VJ5312,,,,,
ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 25 09:13:37 2016
Quant Method : C:\msdchem\2\methods\MSJ052316a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed May 25 09:12:25 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.756	96	1271171	50.00	ug/L	0.00
56) Chlorobenzene-d5	10.846	117	1047338	50.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	13.201	152	592322	50.00	ug/L	0.00
106) Tert Butyl Alcohol-d10	5.304	65	88691	250.00	ug/L	0.00
System Monitoring Compounds						
36) Dibromofluoromethane	6.928	113	320149	49.75	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 99.50%			
46) 1,2-Dichloroethane-d4	7.482	65	349136	48.13	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 96.26%			
57) Toluene-d8	9.301	98	1305425	49.29	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 98.58%			
79) 4-Bromofluorobenzene	12.051	95	545409	49.96	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 99.92%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.694	85	325672	38.98	ug/L	100
3) Chloromethane	2.907	50	348165	37.36	ug/L	100
4) Vinyl Chloride	3.047	62	350810	37.45	ug/L	96
5) 1,3-Butadiene	3.029	54	10743	2.75	ug/L #	67
6) Bromomethane	3.461	94	201723	37.83	ug/L	98
7) Chloroethane	3.619	64	147177	36.38	ug/L	93
8) Trichlorofluoromethane	3.838	101	463705m	36.74	ug/L	
9) Ethyl Ether	4.118	59	209809	37.60	ug/L	92
10) 1,2-Dichlorotrifluoroe...	4.355	67	351992	40.42	ug/L	97
11) 1,1-Dichloroethene	4.398	61	440785	40.52	ug/L	96
12) Freon 113	4.471	101	264997	34.87	ug/L	95
13) Carbon Disulfide	4.471	76	901550	35.81	ug/L	99
14) Iodomethane	4.586	142	454345	36.79	ug/L	98
15) Allyl chloride	4.921	41	331633	35.54	ug/L	96
16) Methylene Chloride	5.042	49	385229	40.59	ug/L	98
17) Acetone	5.067	58	81774	189.08	ug/L	96
18) Methyl acetate	5.195	74	162074	214.23	ug/L #	88
19) trans-1,2-Dichloroethene	5.231	61	427461	43.86	ug/L	98
20) Hexane	5.298	56	238350	36.65	ug/L	99
21) Methyl Tert Butyl Ether	5.334	73	753630	39.71	ug/L	97
22) Acetonitrile	5.590	40	99823	350.88	ug/L	90
23) Di-isopropyl ether	5.712	45	834957	39.30	ug/L	99
24) Chloroprene	5.870	53	371204	36.09	ug/L	97
25) 1,1-Dichloroethane	5.894	63	540040	41.71	ug/L	100
26) Acrylonitrile	5.925	53	361470	202.34	ug/L	95
27) ETBE	6.113	59	843808	38.91	ug/L	98
28) Vinyl acetate	6.107	43	1977344	178.99	ug/L	99
29) cis-1,2-Dichloroethene	6.472	96	327635	39.04	ug/L	99
30) 2,2-Dichloropropane	6.606	77	452230	42.28	ug/L	97
31) Bromochloromethane	6.685	128	145453	38.67	ug/L	93
32) Cyclohexane	6.734	56	477719	39.54	ug/L	99
33) Chloroform	6.740	83	557889	39.79	ug/L	100
34) Ethyl acetate	6.807	43	789659	198.84	ug/L	99

SGS ACCUTEST FA34224

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\052416\
Data File : J0976761.D
Acq On : 24 May 2016 1:36 pm
Operator : DARSHNAP
Sample : icv5312-5 Inst : MSVOA6
Misc : MS33959,VJ5312,,,,,
ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 25 09:13:37 2016
Quant Method : C:\msdchem\2\methods\MSJ052316a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed May 25 09:12:25 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
35) Tetrahydrofuran	6.922	42	46011	39.24 ug/L	88
37) Carbon Tetrachloride	6.934	117	434206m	40.81 ug/L	
38) 1,1,1-Trichloroethane	6.995	97	476990	37.91 ug/L	98
39) 2-Butanone	7.020	43	350906	202.66 ug/L	100
40) 1,1-Dichloropropene	7.105	75	385538	39.64 ug/L	97
41) tert-Butyl Formate	7.184	59	2003876	399.20 ug/L	98
42) Propionitrile	7.330	54	250812	390.24 ug/L #	71
43) Methacrylonitrile	7.360	41	1022002	397.89 ug/L	99
44) Benzene	7.360	78	1202185	39.37 ug/L	100
45) TAME	7.433	73	772979	39.05 ug/L	98
47) 1,2-Dichloroethane	7.549	62	383419	41.53 ug/L	99
48) Trichloroethene	7.938	95	318354	40.61 ug/L	95
49) Methylcyclohexane	7.956	83	547336	40.69 ug/L	98
50) Dibromomethane	8.358	93	172449	42.40 ug/L	99
51) 1,2-Dichloropropane	8.449	63	300964	40.05 ug/L	97
52) Bromodichloromethane	8.492	83	404856	41.89 ug/L	96
53) Methyl methacrylate	8.589	41	157418	42.28 ug/L	97
54) 2-Chloroethyl vinyl ether	9.009	63	768292	207.43 ug/L	98
55) cis-1,3-Dichloropropene	9.106	75	492788	45.38 ug/L	98
58) Toluene	9.356	91	1310081	40.16 ug/L	99
59) 2-Nitropropane	9.556	41	218271	202.65 ug/L	99
60) 4-Methyl-2-pentanone	9.672	43	850626	208.94 ug/L	99
61) trans-1,3-Dichloropropene	9.733	75	440252	47.35 ug/L	99
62) Tetrachloroethene	9.757	166	331484	39.50 ug/L	99
63) Ethyl methacrylate	9.836	69	267195	35.89 ug/L	97
64) 1,1,2-Trichloroethane	9.903	83	219787	42.27 ug/L	99
65) Dibromochloromethane	10.098	129	295373	43.53 ug/L	99
66) 1,3-Dichloropropane	10.183	76	416844	39.54 ug/L	98
67) 1,2-Dibromoethane	10.359	107	246146	42.25 ug/L	99
68) 2-hexanone	10.487	43	591811	200.51 ug/L	99
69) 1-Chlorohexane	10.798	91	403712	37.82 ug/L	98
70) Ethylbenzene	10.858	91	1502735	39.66 ug/L	100
71) Chlorobenzene	10.864	112	897651	40.37 ug/L	99
72) 1,1,1,2-Tetrachloroethane	10.913	131	315382	42.60 ug/L	98
73) m,p-Xylene	10.998	91	2324742	82.31 ug/L	99
74) o-Xylene	11.436	91	1226323	43.77 ug/L	100
75) Styrene	11.485	104	962096	40.55 ug/L	99
76) Bromoform	11.546	173	191299	42.69 ug/L	100
77) Isopropylbenzene	11.740	105	1474471	44.78 ug/L	99
80) cis-1,4-Dichloro-2-butene	12.087	53	68885	39.62 ug/L	94
81) n-Propylbenzene	12.160	91	1780949	42.56 ug/L	100
82) Bromobenzene	12.185	156	405022	40.69 ug/L	96
83) 1,1,2,2-Tetrachloroethane	12.221	83	312266	41.10 ug/L	99
84) 1,3,5-Trimethylbenzene	12.343	105	1299166	42.29 ug/L	99
85) 2-Chlorotoluene	12.349	91	1244284	40.84 ug/L	100
86) trans-1,4-Dichloro-2-B...	12.397	53	68882	42.34 ug/L	91
87) 1,2,3-Trichloropropane	12.379	110	83903	43.08 ug/L	99
88) Cyclohexanone	12.446	55	46326	219.23 ug/L	98
89) 4-Chlorotoluene	12.519	91	1163703	42.46 ug/L	100
90) a-Methyl Styrene	12.750	118	13625	0.78 ug/L #	1

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\052416\
Data File : J0976761.D
Acq On : 24 May 2016 1:36 pm
Operator : DARSHNAP
Sample : icv5312-5 Inst : MSVOA6
Misc : MS33959,VJ5312,,,,,
ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 25 09:13:37 2016
Quant Method : C:\msdchem\2\methods\MSJ052316a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed May 25 09:12:25 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
91) tert-Butylbenzene	12.683	91	716871	40.40	ug/L	99
92) 1,2,4-Trimethylbenzene	12.750	105	1313248	42.71	ug/L	99
93) Pentachloroethane	12.738	167	248571	41.50	ug/L	97
94) sec-Butylbenzene	12.866	105	1603437	43.32	ug/L	99
95) 4-Isopropyltoluene	13.000	119	1369347	42.39	ug/L	100
96) 1,3-Dichlorobenzene	13.134	146	720509	41.89	ug/L	99
97) 1,4-Dichlorobenzene	13.219	146	730000	40.86	ug/L	98
98) n-Butylbenzene	13.432	92	756331	42.97	ug/L	98
99) Benzyl Chloride	13.444	126	117415	43.26	ug/L #	92
100) 1,2-Dichlorobenzene	13.645	146	662249	41.26	ug/L	99
101) 1,2-Dibromo-3-Chloropr...	14.381	75	42533	40.46	ug/L	95
102) Hexachlorobutadiene	14.928	225	284145	39.34	ug/L	98
103) 1,2,4-Trichlorobenzene	14.971	180	450367	42.19	ug/L	98
104) Naphthalene	15.257	128	719202	44.52	ug/L	100
105) 1,2,3-Trichlorobenzene	15.427	180	372187	40.21	ug/L	100
107) Ethanol	4.288	45	38199m	768.11	ug/L	
108) acrolein	4.757	56	165031	221.02	ug/L	99
109) Tert Butyl Alcohol	5.371	59	168037	375.02	ug/L	79
110) tert Amyl alcohol	7.573	59	140426	429.16	ug/L	96
111) Isobutyl alcohol	7.458	42	109174	754.56	ug/L #	75
112) 1,4-Dioxane	8.674	88	41261	808.60	ug/L	94
113) 3,3-Dimethyl-1-butanol	10.432	57	743154	1893.92	ug/L	99

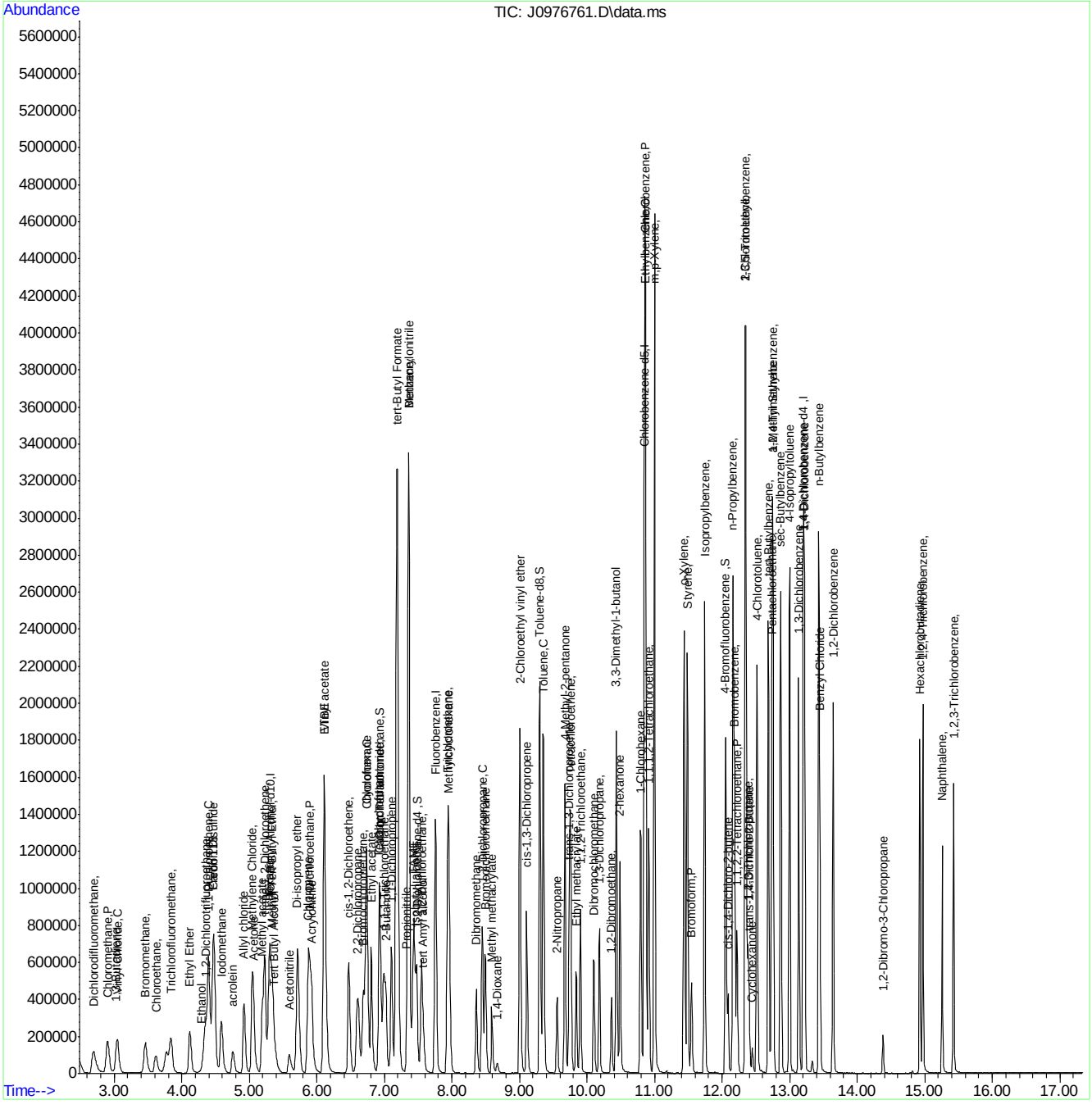
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST FA34224

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\052416\
Data File : J0976761.D
Acq On : 24 May 2016 1:36 pm
Operator : DARSHNAP
Sample : icv5312-5 Inst : MSVOA6
Misc : MS33959,VJ5312,,,,,
ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 25 09:13:37 2016
Quant Method : C:\msdchem\2\methods\MSJ052316a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed May 25 09:12:25 2016
Response via : Initial Calibration



SGS ACCUTEST FA34224

Manual Integration Approval Summary

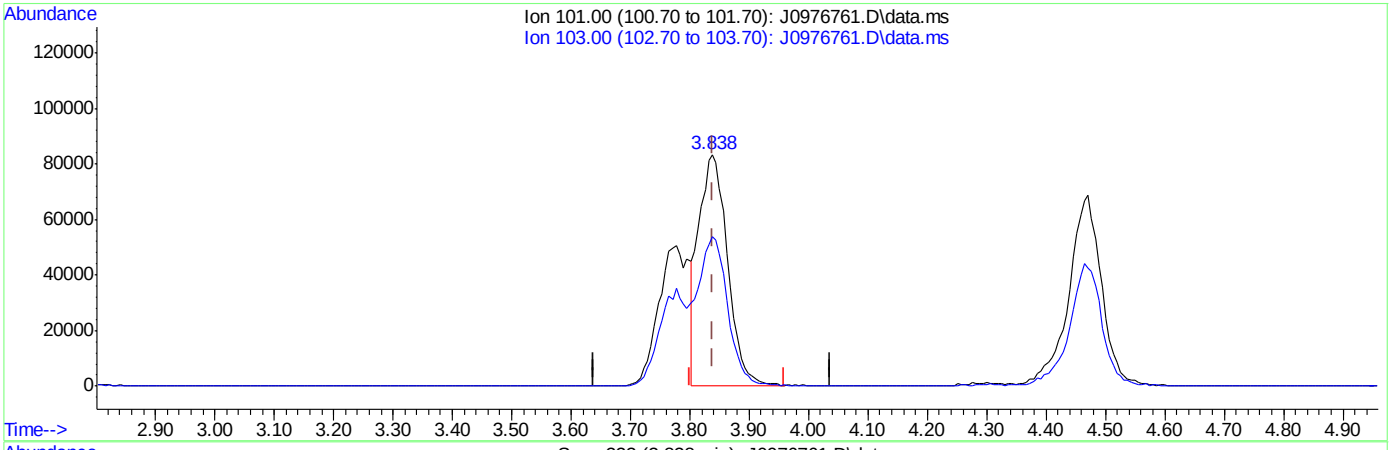
Sample Number:	VJ5312-ICV5312	**Method:**	SW846 8260B
Lab FileID:	J0976761.D	**Analyst approved:**	05/25/16 11:19 Darshna Patel
Injection Time:	05/24/16 13:36	**Supervisor approved:**	05/25/16 12:38 Melissa Mangual

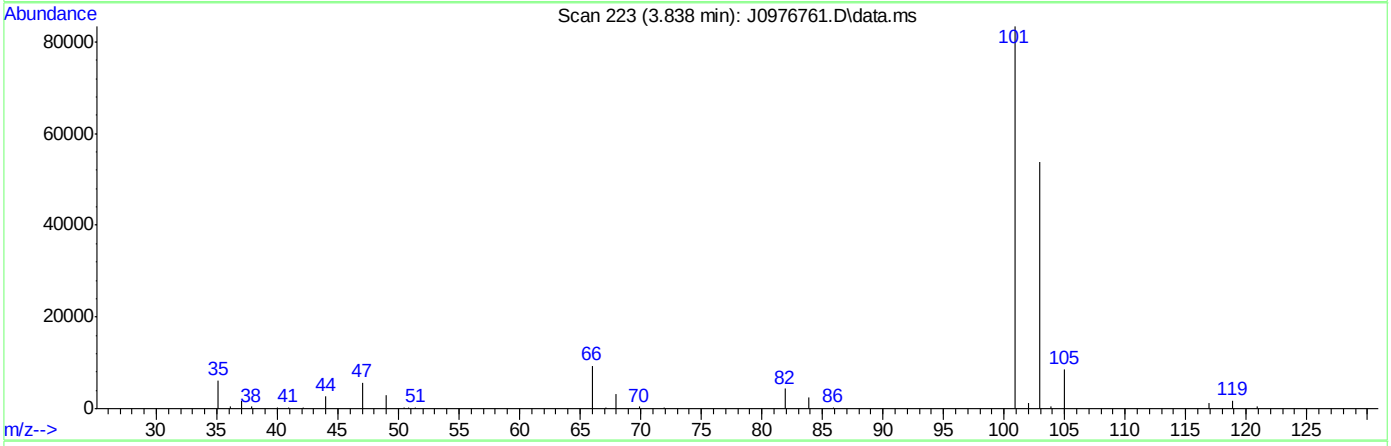
Parameter	CAS	Sig#	R.T. (min.)	Reason
Trichlorofluoromethane	75-69-4		3.84	Split peak
Ethyl Alcohol	64-17-5		4.29	Poor instrument integration
Carbon Tetrachloride	56-23-5		6.93	Overlapping peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\052416\
Data File : J0976761.D
Acq On : 24 May 2016 1:36 pm
Operator : DARSHNAP
Sample : icv5312-5 Inst : MSVOA6
Misc : MS33959,VJ5312,,,,,
ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 24 13:59:35 2016
Quant Method : C:\msdchem\2\methods\MSJ052316a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue May 24 13:19:58 2016
Response via : Initial Calibration





TIC: J0976761.D\data.ms

(8) Trichlorofluoromethane ( )

3.838min (-0.000) 22.50ug/L

response 283923

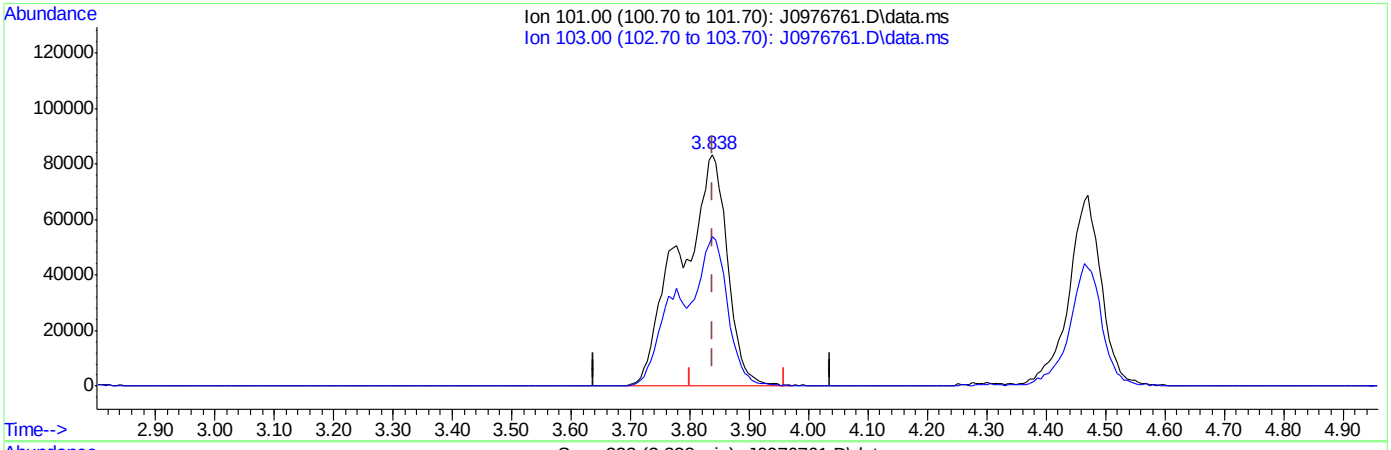
Ion	Exp%	Act%
101.00	100	100
103.00	62.30	64.02
0.00	0.00	0.00
0.00	0.00	0.00

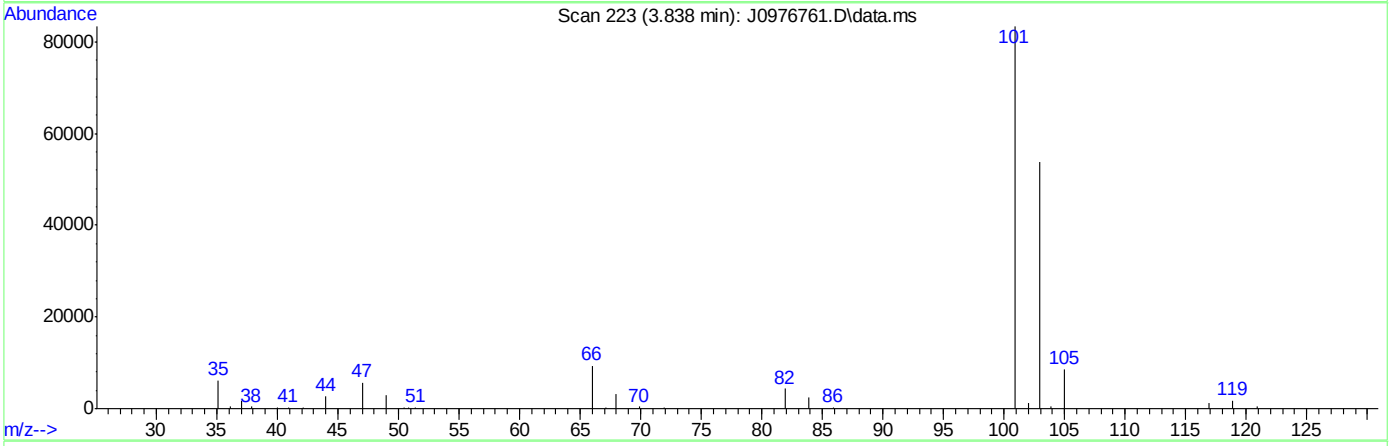
SGS ACCUTEST FA34224

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\052416\
Data File : J0976761.D
Acq On : 24 May 2016 1:36 pm
Operator : DARSHNAP
Sample : icv5312-5 Inst : MSVOA6
Misc : MS33959,VJ5312,,,,,
ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 24 13:59:35 2016
Quant Method : C:\msdchem\2\methods\MSJ052316a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue May 24 13:19:58 2016
Response via : Initial Calibration





TIC: J0976761.D\data.ms

(8) Trichlorofluoromethane ( )

3.838min (-0.000) 36.75ug/L m

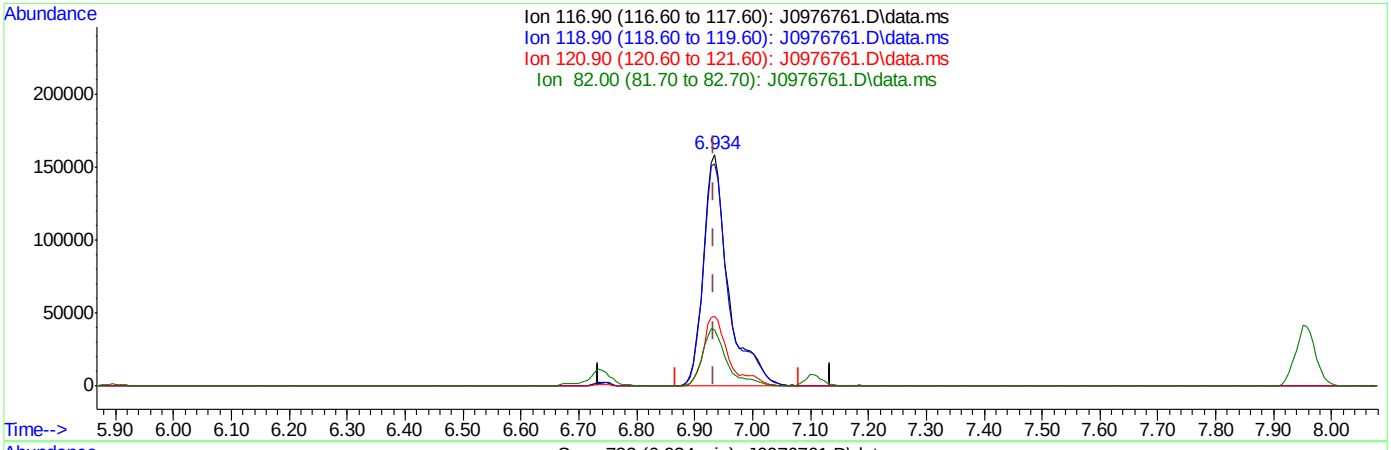
response 463817

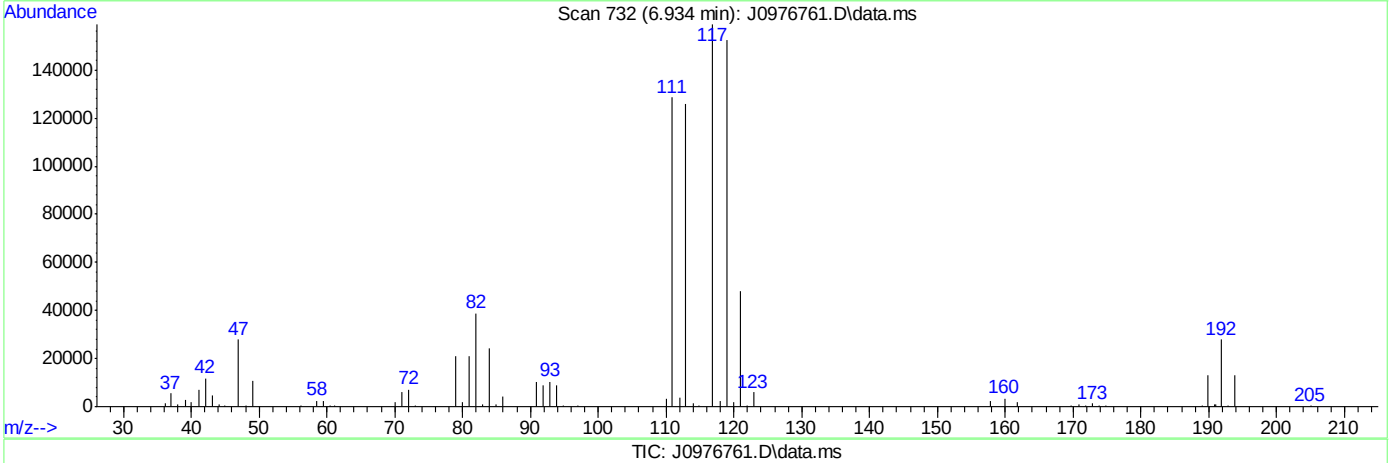
Ion	Exp%	Act%
101.00	100	100
103.00	62.30	64.53
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\052416\
Data File : J0976761.D
Acq On : 24 May 2016 1:36 pm
Operator : DARSHNAP
Sample : icv5312-5 Inst : MSVOA6
Misc : MS33959,VJ5312,,,,,
ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 24 13:59:35 2016
Quant Method : C:\msdchem\2\methods\MSJ052316a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue May 24 13:19:58 2016
Response via : Initial Calibration





TIC: J0976761.D\data.ms

(37) Carbon Tetrachloride ( )

6.934min (+0.000) 45.36ug/L

response 482517

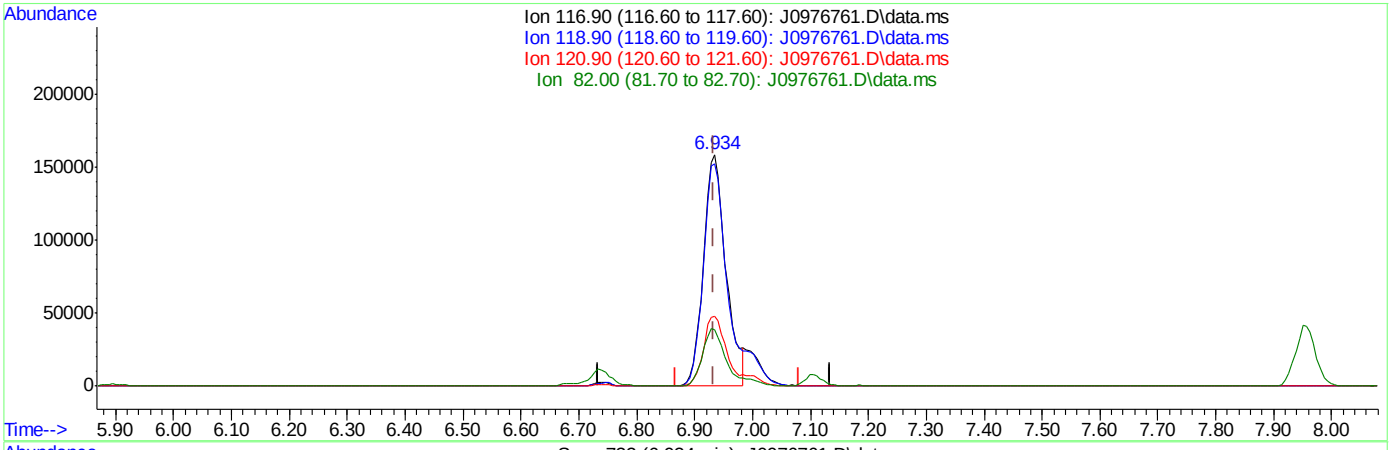
Ion	Exp%	Act%
116.90	100	100
118.90	99.10	95.93
120.90	32.20	30.30
82.00	25.20	24.42

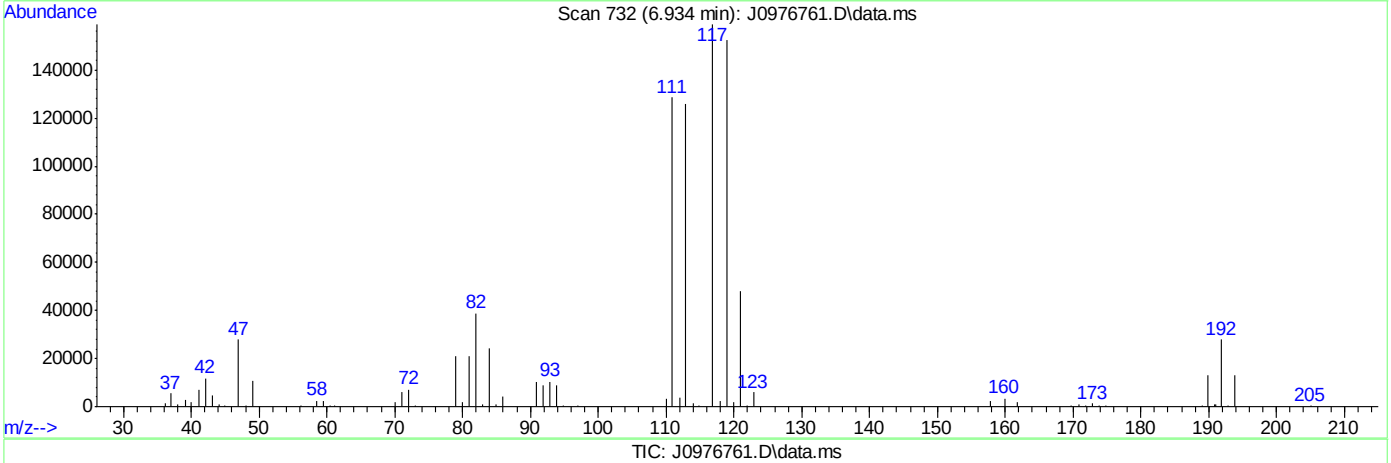
SGS ACCUTEST FA34224

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\052416\
Data File : J0976761.D
Acq On : 24 May 2016 1:36 pm
Operator : DARSHNAP
Sample : icv5312-5 Inst : MSVOA6
Misc : MS33959,VJ5312,,,,,
ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 24 13:59:35 2016
Quant Method : C:\msdchem\2\methods\MSJ052316a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue May 24 13:19:58 2016
Response via : Initial Calibration





TIC: J0976761.D\data.ms

(37) Carbon Tetrachloride ( )

6.934min (+0.000) 40.81ug/L m

response 434206

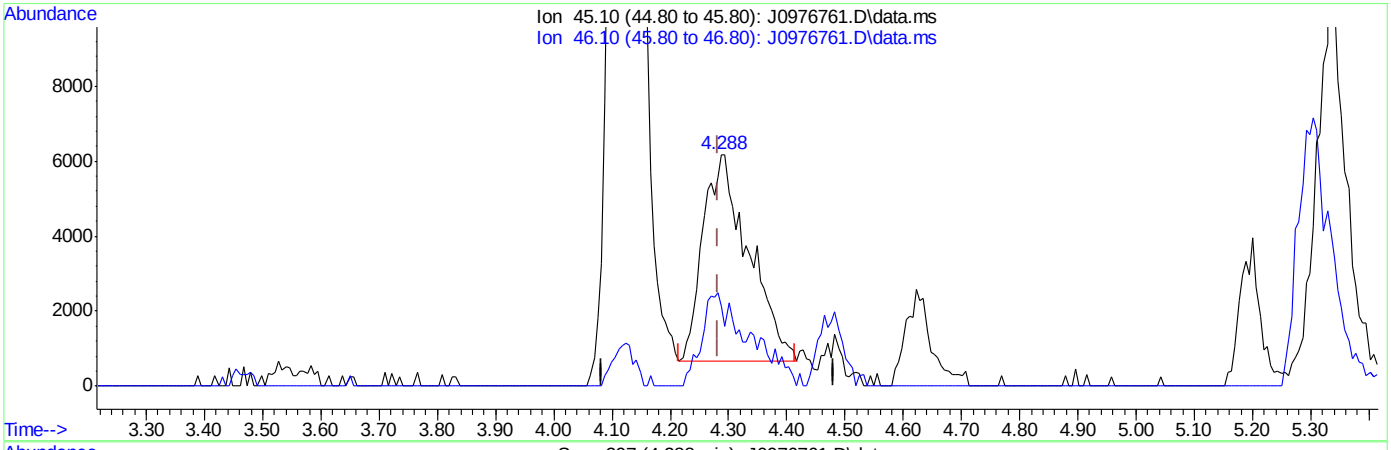
Ion	Exp%	Act%
116.90	100	100
118.90	99.10	95.93
120.90	32.20	30.30
82.00	25.20	24.42

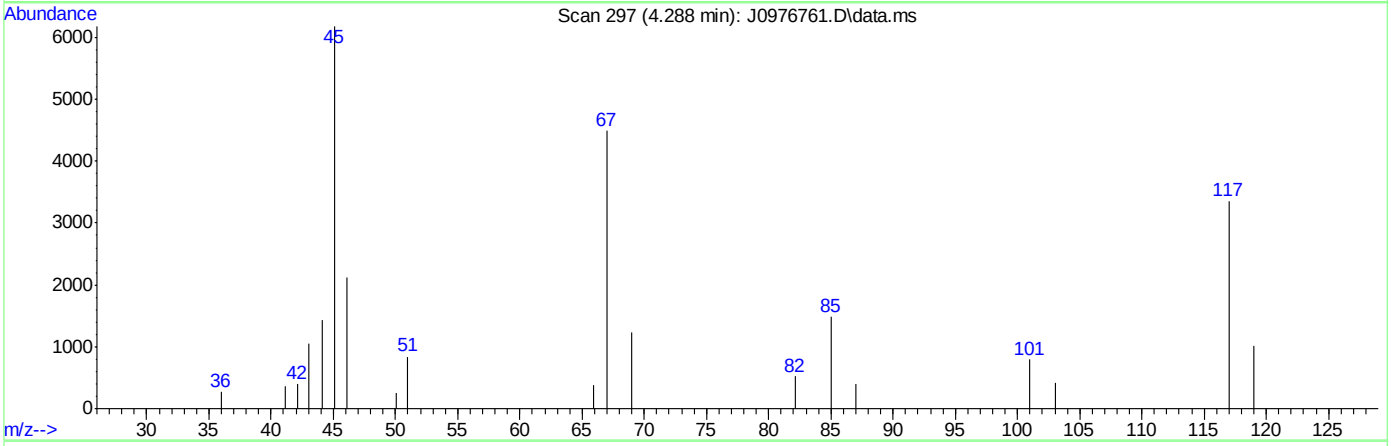
SGS ACCUTEST FA34224

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\052416\
Data File : J0976761.D
Acq On : 24 May 2016 1:36 pm
Operator : DARSHNAP
Sample : icv5312-5 Inst : MSVOA6
Misc : MS33959,VJ5312,,,,,
ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 24 13:59:35 2016
Quant Method : C:\msdchem\2\methods\MSJ052316a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue May 24 13:19:58 2016
Response via : Initial Calibration





TIC: J0976761.D\data.ms

(107) Ethanol

4.288min (+0.006) 603.66ug/L

response 30021

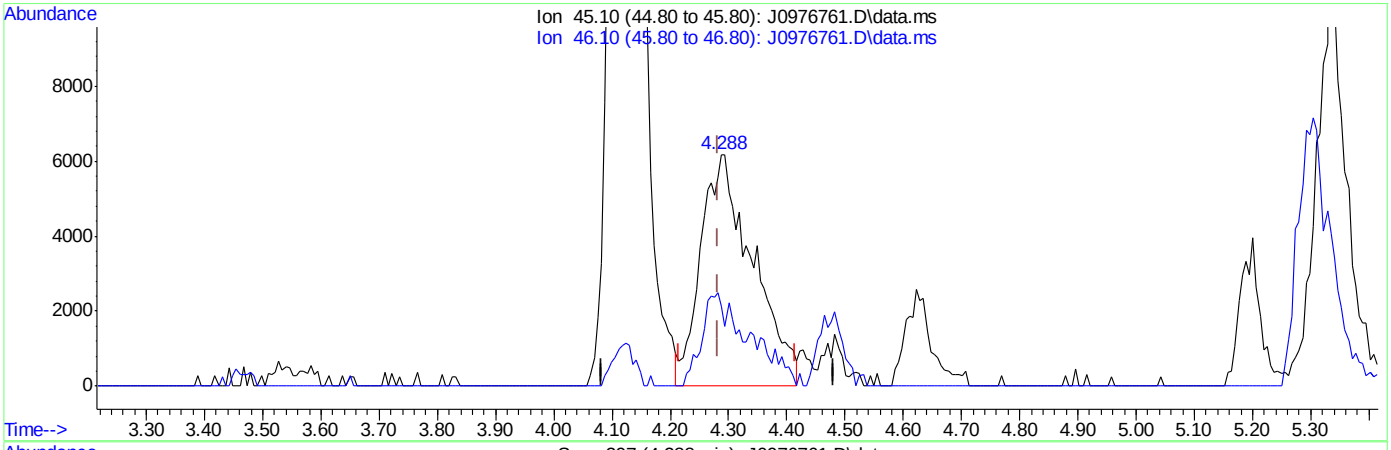
Ion	Exp%	Act%
45.10	100	100
46.10	34.10	38.54
0.00	0.00	0.00
0.00	0.00	0.00

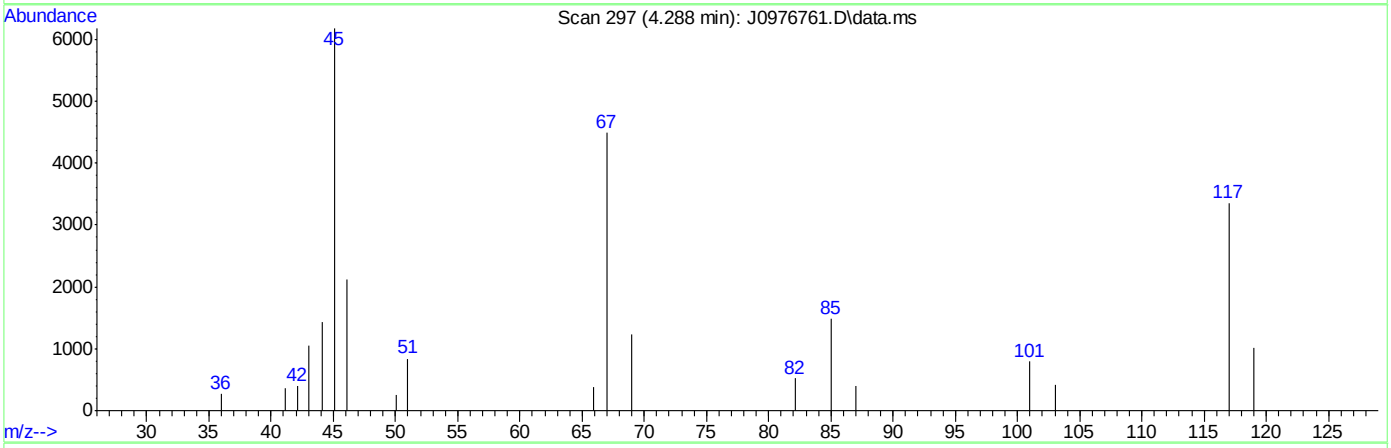
SGS ACCUTEST FA34224

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\052416\
Data File : J0976761.D
Acq On : 24 May 2016 1:36 pm
Operator : DARSHNAP
Sample : icv5312-5 Inst : MSVOA6
Misc : MS33959,VJ5312,,,,,
ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 24 13:59:35 2016
Quant Method : C:\msdchem\2\methods\MSJ052316a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue May 24 13:19:58 2016
Response via : Initial Calibration





TIC: J0976761.D\data.ms

(107) Ethanol

4.288min (+0.006) 768.11ug/L m

response 38199

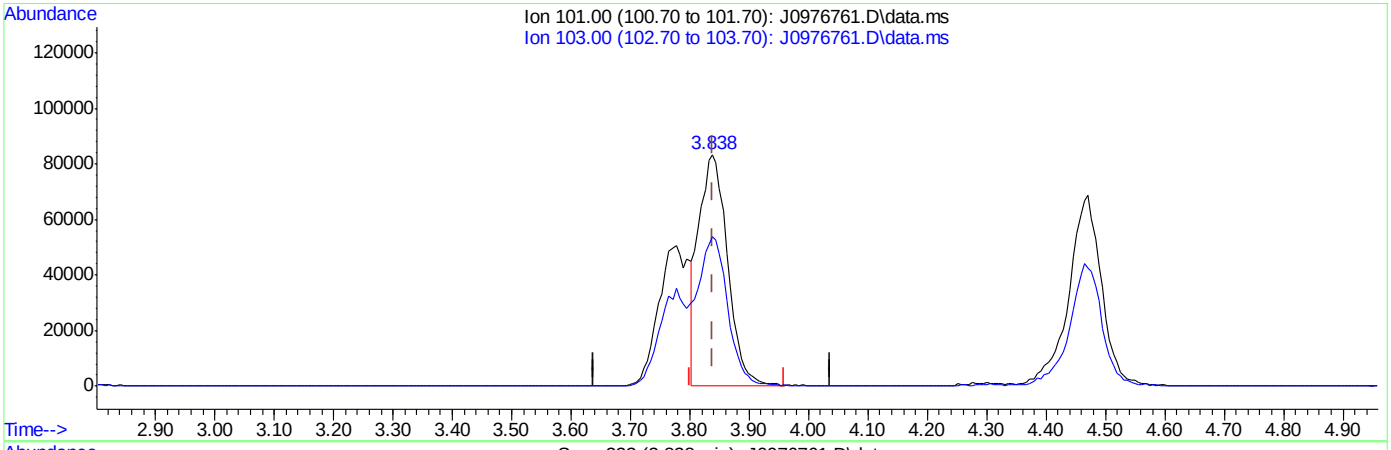
Ion	Exp%	Act%
45.10	100	100
46.10	34.10	34.43
0.00	0.00	0.00
0.00	0.00	0.00

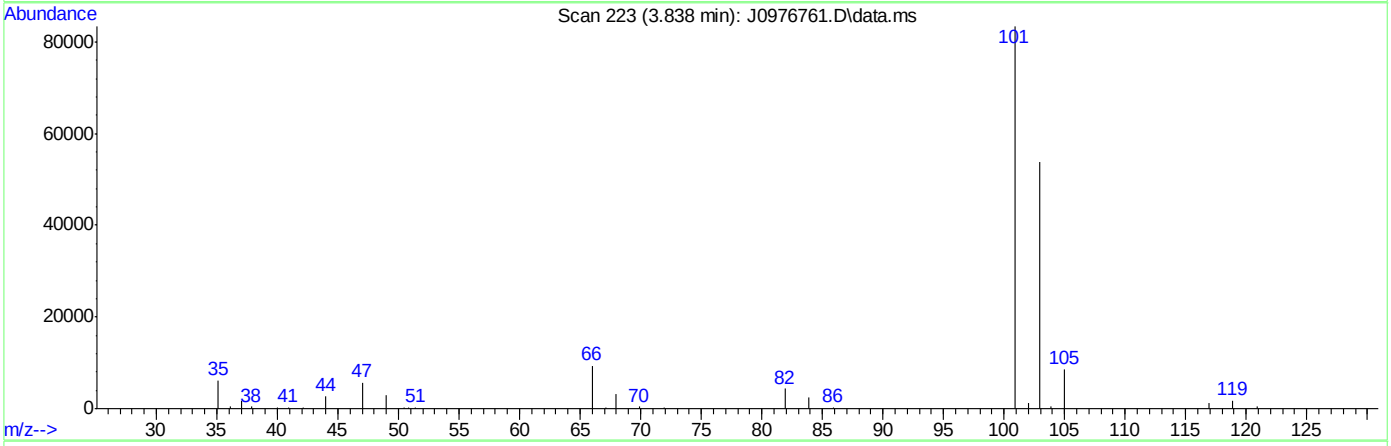
SGS ACCUTEST FA34224

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\052416\
Data File : J0976761.D
Acq On : 24 May 2016 1:36 pm
Operator : DARSHNAP
Sample : icv5312-5 Inst : MSVOA6
Misc : MS33959,VJ5312,,,,,
ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 25 09:12:51 2016
Quant Method : C:\msdchem\2\methods\MSJ052316a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed May 25 09:12:25 2016
Response via : Initial Calibration





TIC: J0976761.D\data.ms

(8) Trichlorofluoromethane ( )

3.838min (-0.000) 22.50ug/L

response 283923

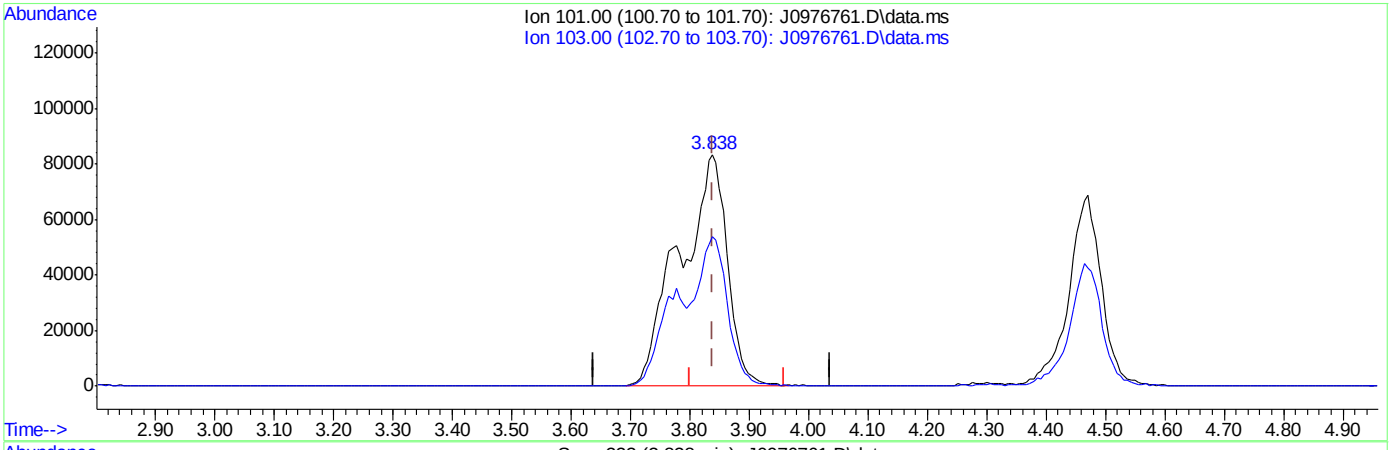
Ion	Exp%	Act%
101.00	100	100
103.00	62.30	64.02
0.00	0.00	0.00
0.00	0.00	0.00

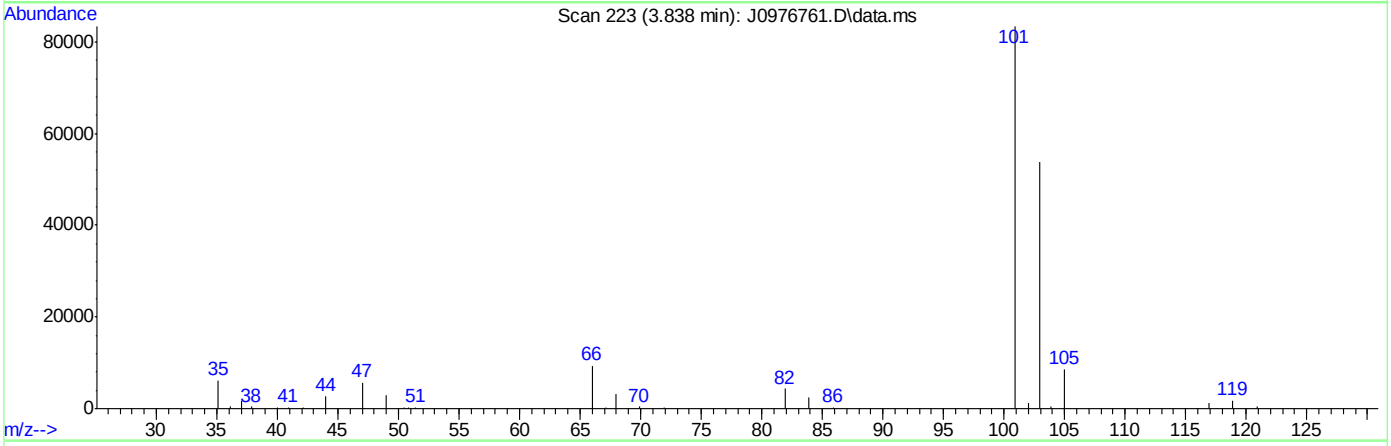
SGS ACCUTEST FA34224

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\052416\
Data File : J0976761.D
Acq On : 24 May 2016 1:36 pm
Operator : DARSHNAP
Sample : icv5312-5 Inst : MSVOA6
Misc : MS33959,VJ5312,,,,,
ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 25 09:12:51 2016
Quant Method : C:\msdchem\2\methods\MSJ052316a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed May 25 09:12:25 2016
Response via : Initial Calibration





TIC: J0976761.D\data.ms

(8) Trichlorofluoromethane ( )

3.838min (-0.000) 36.74ug/L m

response 463705

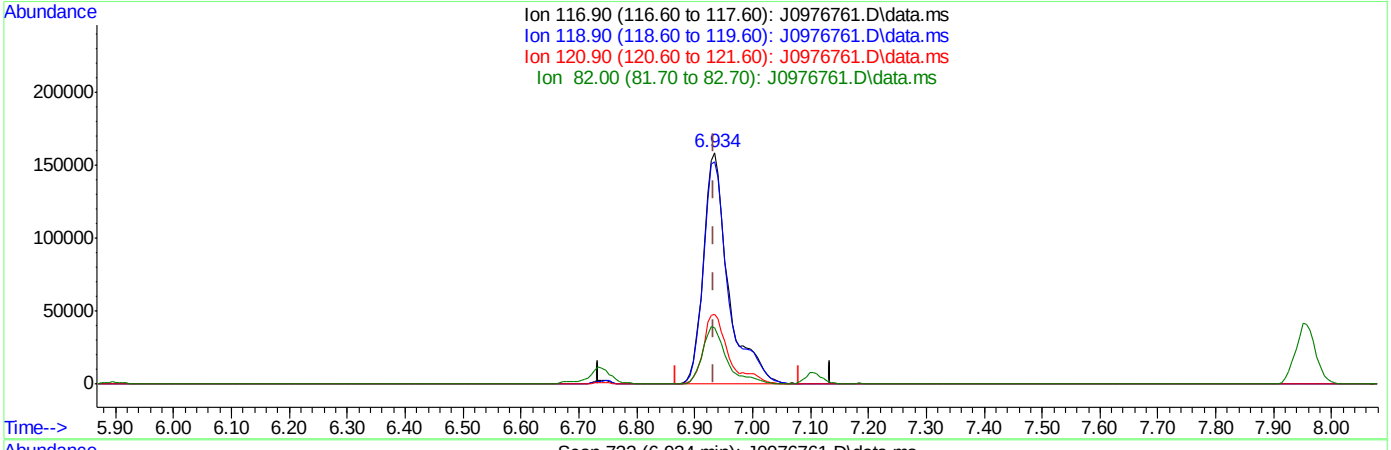
Ion	Exp%	Act%
101.00	100	100
103.00	62.30	64.53
0.00	0.00	0.00
0.00	0.00	0.00

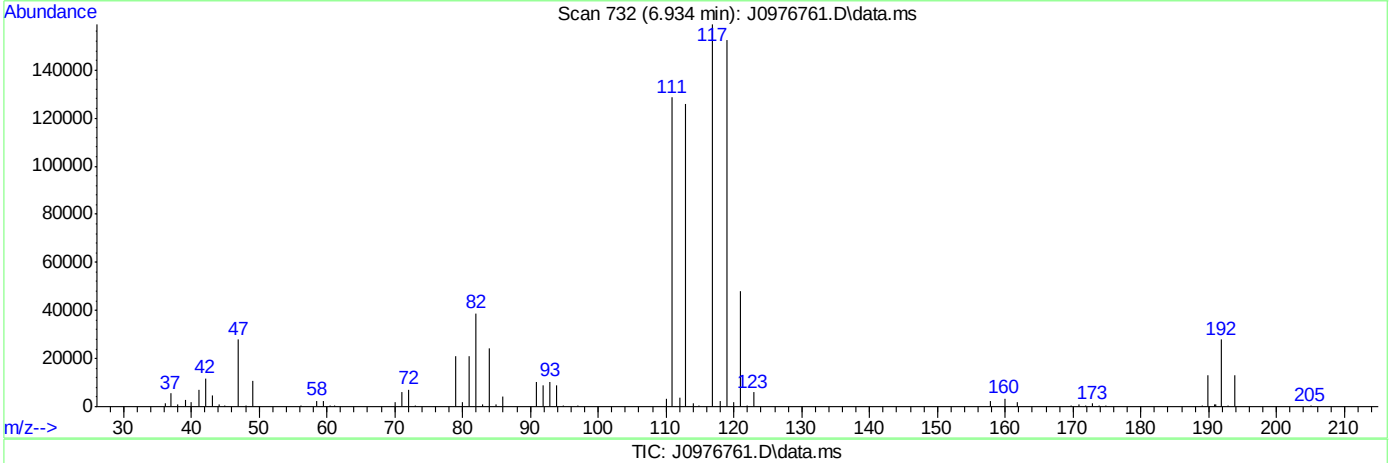
SGS ACCUTEST FA34224

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\052416\
Data File : J0976761.D
Acq On : 24 May 2016 1:36 pm
Operator : DARSHNAP
Sample : icv5312-5 Inst : MSVOA6
Misc : MS33959,VJ5312,,,,,
ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 25 09:12:51 2016
Quant Method : C:\msdchem\2\methods\MSJ052316a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed May 25 09:12:25 2016
Response via : Initial Calibration





TIC: J0976761.D\data.ms

(37) Carbon Tetrachloride ( )

6.934min (+0.000) 45.36ug/L

response 482517

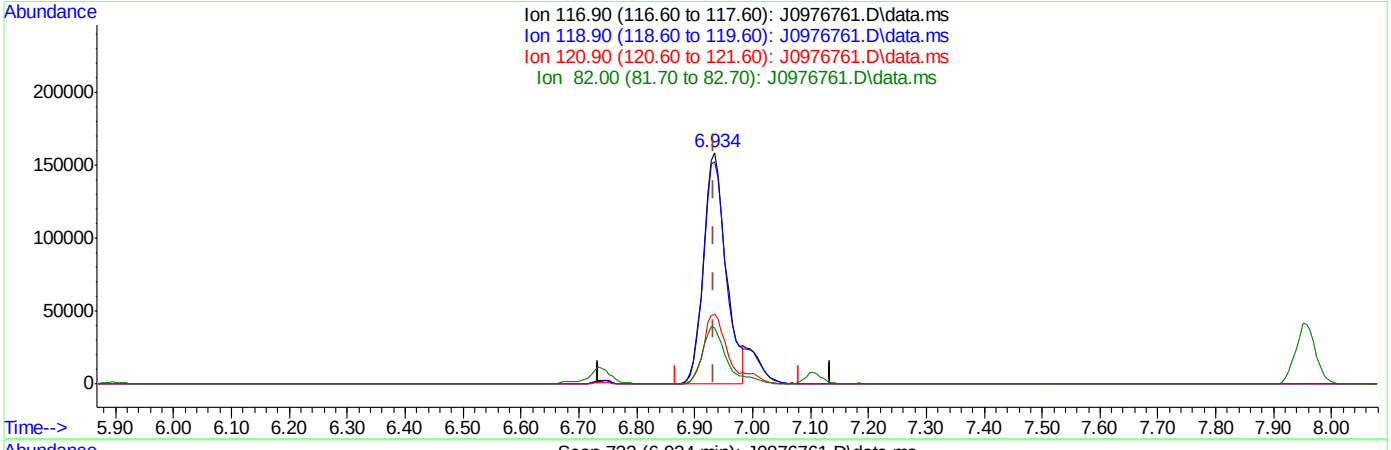
Ion	Exp%	Act%
116.90	100	100
118.90	99.10	95.93
120.90	32.20	30.30
82.00	25.20	24.42

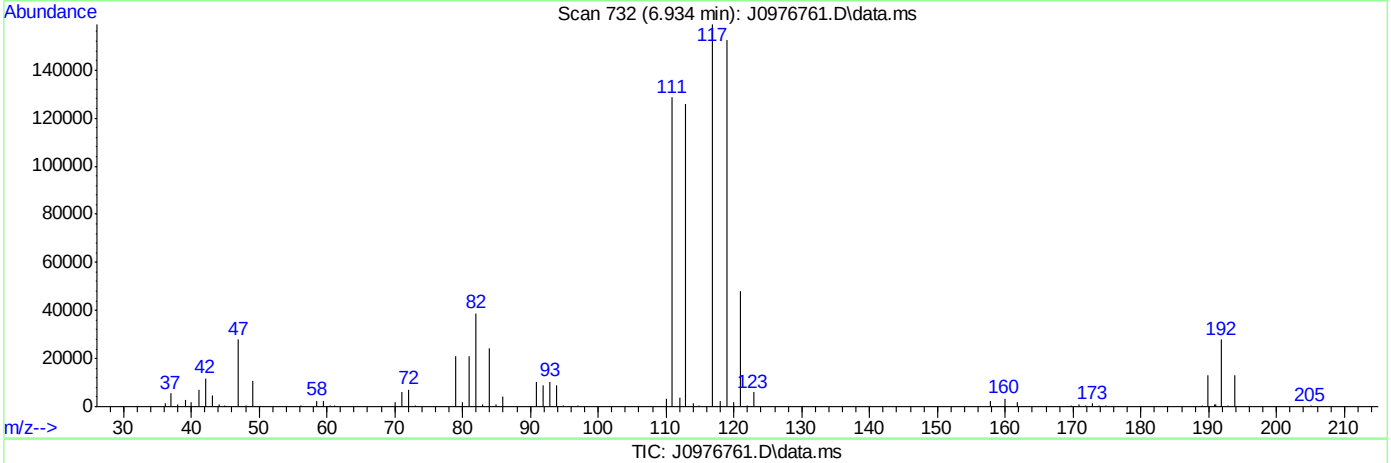
SGS ACCUTEST FA34224

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\052416\
Data File : J0976761.D
Acq On : 24 May 2016 1:36 pm
Operator : DARSHNAP
Sample : icv5312-5 Inst : MSVOA6
Misc : MS33959,VJ5312,,,,,
ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 25 09:12:51 2016
Quant Method : C:\msdchem\2\methods\MSJ052316a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed May 25 09:12:25 2016
Response via : Initial Calibration





TIC: J0976761.D\data.ms

(37) Carbon Tetrachloride ( )

6.934min (+0.000) 40.81ug/L m

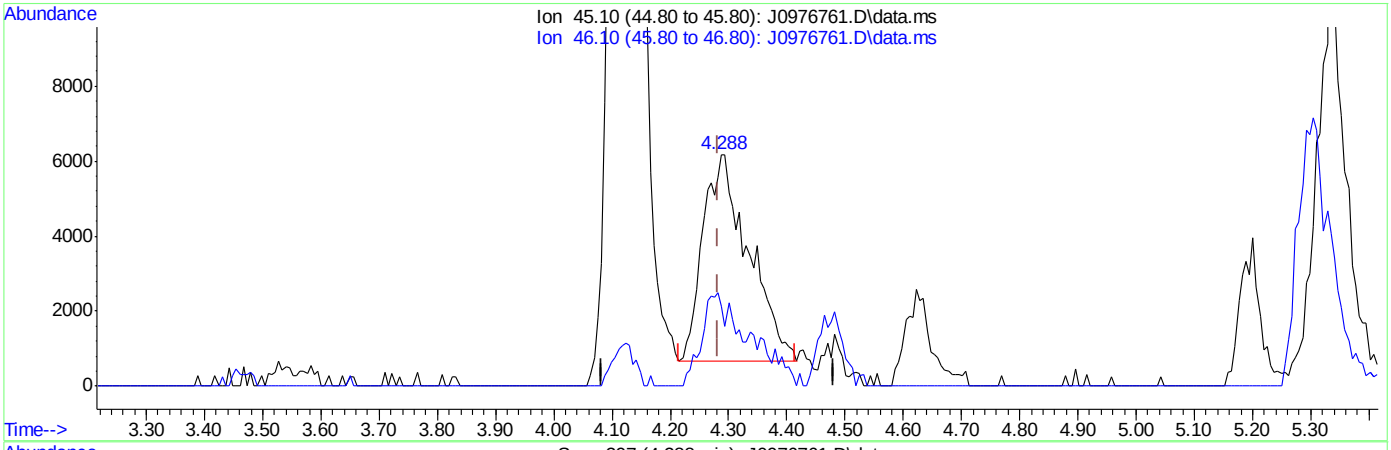
response 434206

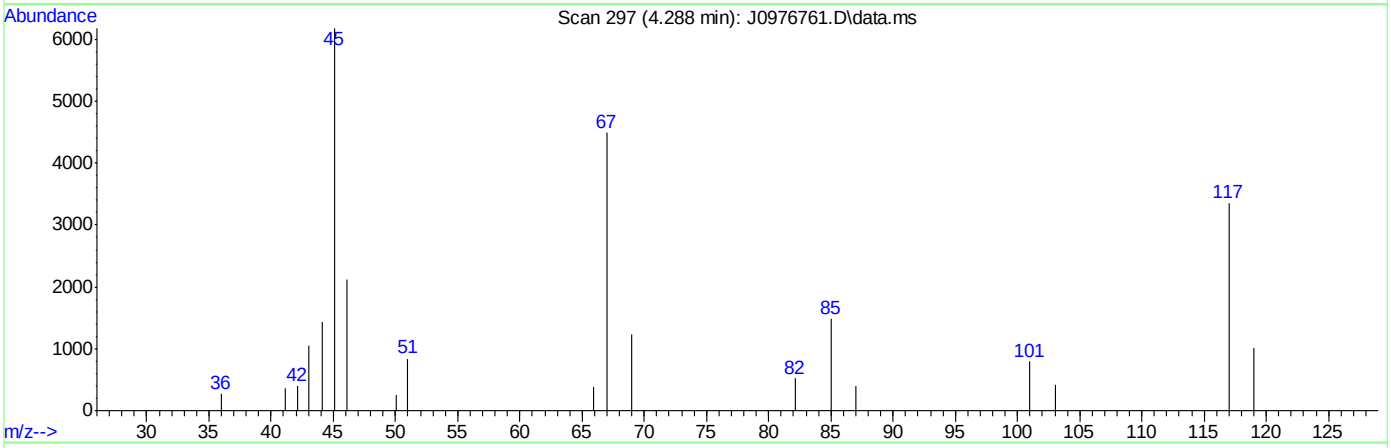
Ion	Exp%	Act%
116.90	100	100
118.90	99.10	95.93
120.90	32.20	30.30
82.00	25.20	24.42

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\052416\
Data File : J0976761.D
Acq On : 24 May 2016 1:36 pm
Operator : DARSHNAP
Sample : icv5312-5 Inst : MSVOA6
Misc : MS33959,VJ5312,,,,,
ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 25 09:12:51 2016
Quant Method : C:\msdchem\2\methods\MSJ052316a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed May 25 09:12:25 2016
Response via : Initial Calibration





TIC: J0976761.D\data.ms

(107) Ethanol

4.288min (+0.006) 603.66ug/L

response 30021

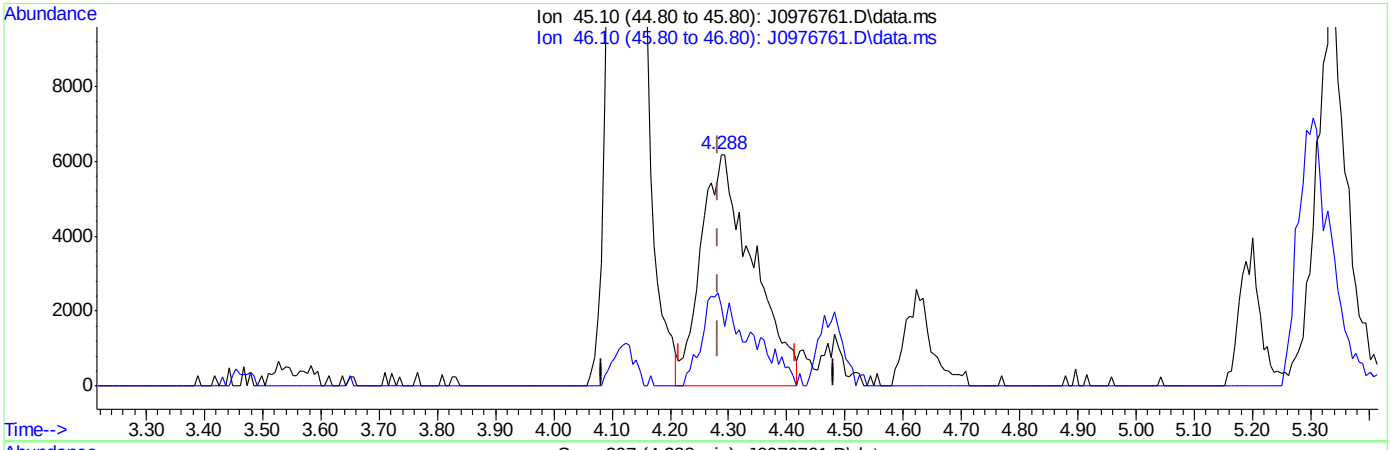
Ion	Exp%	Act%
45.10	100	100
46.10	34.10	38.54
0.00	0.00	0.00
0.00	0.00	0.00

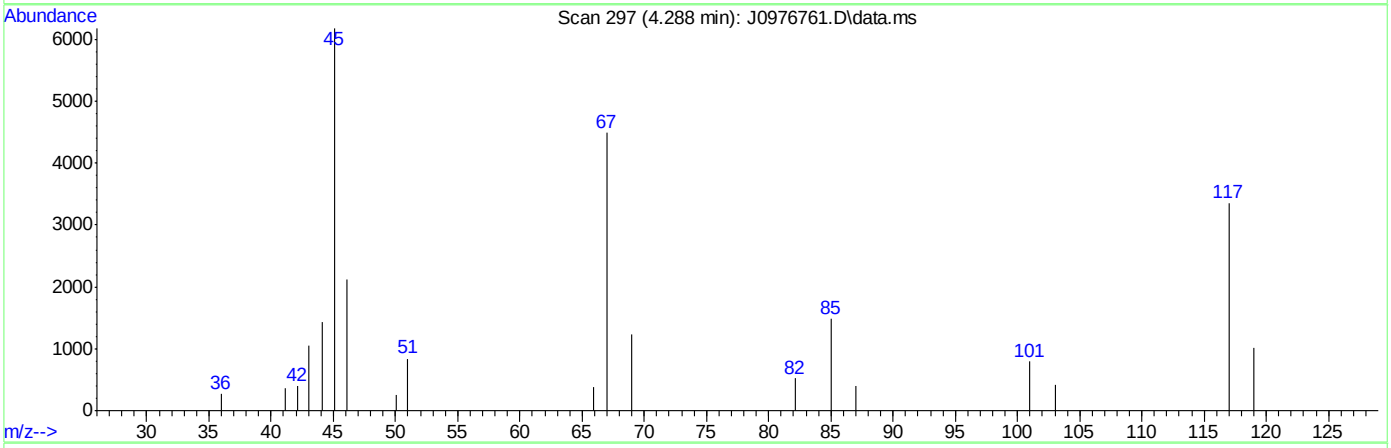
SGS ACCUTEST FA34224

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\052416\
Data File : J0976761.D
Acq On : 24 May 2016 1:36 pm
Operator : DARSHNAP
Sample : icv5312-5 Inst : MSVOA6
Misc : MS33959,VJ5312,,,,,
ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 25 09:12:51 2016
Quant Method : C:\msdchem\2\methods\MSJ052316a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed May 25 09:12:25 2016
Response via : Initial Calibration





TIC: J0976761.D\data.ms

(107) Ethanol

4.288min (+0.006) 768.11ug/L m

response 38199

Ion	Exp%	Act%
45.10	100	100
46.10	34.10	34.43
0.00	0.00	0.00
0.00	0.00	0.00

SGS ACCUTEST FA34224

Manual Integrations APPROVED (compounds with "m" flag)
Juan Garcia
05/26/16 17:41

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\052616\
Data File : J0976813.D
Acq On : 26 May 2016 9:10 am
Operator : DARSHNAP
Sample : cc5312-5 Inst : MSVOA6
Misc : MS33990,VJ5315,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 26 13:40:22 2016
Quant Method : C:\msdchem\2\methods\MSJ052316a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed May 25 09:12:25 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.756	96	1307794	50.00	ug/L	0.00
56) Chlorobenzene-d5	10.846	117	1071583	50.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	13.207	152	604909	50.00	ug/L	0.00
106) Tert Butyl Alcohol-d10	5.292	65	91426	250.00	ug/L	-0.02
System Monitoring Compounds						
36) Dibromofluoromethane	6.922	113	336585	50.84	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 101.68%			
46) 1,2-Dichloroethane-d4	7.476	65	366372	49.09	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 98.18%			
57) Toluene-d8	9.301	98	1339439	49.43	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 98.86%			
79) 4-Bromofluorobenzene	12.051	95	566274	50.79	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 101.58%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.706	85	317892	37.04	ug/L	90
3) Chloromethane	2.907	50	355611	37.09	ug/L	97
4) Vinyl Chloride	3.053	62	357655	37.10	ug/L	99
5) 1,3-Butadiene	3.047	54	158311	39.45	ug/L	95
6) Bromomethane	3.467	94	214791	39.38	ug/L	93
7) Chloroethane	3.619	64	165324	41.38	ug/L	97
8) Trichlorofluoromethane	3.844	101	469237m	36.14	ug/L	
9) Ethyl Ether	4.118	59	224107	39.04	ug/L	95
10) 1,2-Dichlorotrifluoroe...	4.361	67	330951	36.94	ug/L	97
11) 1,1-Dichloroethene	4.404	61	433861	38.76	ug/L	100
12) Freon 113	4.471	101	292282	37.39	ug/L	93
13) Carbon Disulfide	4.477	76	970077	37.45	ug/L	98
14) Iodomethane	4.586	142	498051	39.20	ug/L	99
15) Allyl chloride	4.921	41	402473	41.93	ug/L	98
16) Methylene Chloride	5.049	49	378241	38.63	ug/L	98
17) Acetone	5.067	58	87900	197.79	ug/L	98
18) Methyl acetate	5.188	74	161704	207.76	ug/L	96
19) trans-1,2-Dichloroethene	5.231	61	393583	39.22	ug/L	99
20) Hexane	5.298	56	259209	38.74	ug/L	98
21) Methyl Tert Butyl Ether	5.341	73	792507	40.59	ug/L	96
22) Acetonitrile	5.590	40	111438	381.76	ug/L	94
23) Di-isopropyl ether	5.712	45	894183	40.91	ug/L	99
24) Chloroprene	5.870	53	433292	40.65	ug/L	98
25) 1,1-Dichloroethane	5.894	63	525025	39.38	ug/L	98
26) Acrylonitrile	5.925	53	356647	193.71	ug/L	99
27) ETBE	6.113	59	922007	41.33	ug/L	99
28) Vinyl acetate	6.107	43	2257811	198.65	ug/L	100
29) cis-1,2-Dichloroethene	6.472	96	344444	39.89	ug/L	98
30) 2,2-Dichloropropane	6.606	77	436734	39.68	ug/L	99
31) Bromochloromethane	6.685	128	157185	40.62	ug/L	97
32) Cyclohexane	6.734	56	508060	40.88	ug/L	98
33) Chloroform	6.734	83	568300	39.39	ug/L	99
34) Ethyl acetate	6.801	43	810448	198.36	ug/L	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\052616\
Data File : J0976813.D
Acq On : 26 May 2016 9:10 am
Operator : DARSHNAP
Sample : cc5312-5 Inst : MSVOA6
Misc : MS33990,VJ5315,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 26 13:40:22 2016
Quant Method : C:\msdchem\2\methods\MSJ052316a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed May 25 09:12:25 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
35) Tetrahydrofuran	6.910	42	44988	37.27	ug/L	95
37) Carbon Tetrachloride	6.928	117	437353m	39.96	ug/L	
38) 1,1,1-Trichloroethane	6.995	97	492002	38.01	ug/L	99
39) 2-Butanone	7.020	43	342697	192.37	ug/L	95
40) 1,1-Dichloropropene	7.105	75	396921	39.67	ug/L	99
41) tert-Butyl Formate	7.184	59	1972422	381.10	ug/L	98
42) Propionitrile	7.330	54	259402	392.30	ug/L #	76
43) Methacrylonitrile	7.354	41	1057409	400.36	ug/L	98
44) Benzene	7.354	78	1216810	38.73	ug/L	99
45) TAME	7.433	73	845210	41.51	ug/L	99
47) 1,2-Dichloroethane	7.543	62	377052	39.63	ug/L	98
48) Trichloroethene	7.932	95	310666	38.52	ug/L	94
49) Methylcyclohexane	7.956	83	568071	41.05	ug/L	98
50) Dibromomethane	8.358	93	169923	40.61	ug/L	99
51) 1,2-Dichloropropane	8.449	63	301367	38.96	ug/L	97
52) Bromodichloromethane	8.492	83	399463	40.17	ug/L	92
53) Methyl methacrylate	8.589	41	158455	41.37	ug/L	96
54) 2-Chloroethyl vinyl ether	9.003	63	774250	203.13	ug/L	98
55) cis-1,3-Dichloropropene	9.106	75	482639	43.20	ug/L	99
58) Toluene	9.350	91	1309872	39.19	ug/L	100
59) 2-Nitropropane	9.556	41	223853	203.13	ug/L	99
60) 4-Methyl-2-pentanone	9.672	43	854876	205.23	ug/L	99
61) trans-1,3-Dichloropropene	9.733	75	408954	42.99	ug/L	100
62) Tetrachloroethene	9.757	166	322708	37.58	ug/L	99
63) Ethyl methacrylate	9.836	69	316026	41.40	ug/L	99
64) 1,1,2-Trichloroethane	9.903	83	208257	39.15	ug/L	94
65) Dibromochloromethane	10.098	129	285358	41.10	ug/L	99
66) 1,3-Dichloropropane	10.183	76	428553	39.73	ug/L	99
67) 1,2-Dibromoethane	10.359	107	240934	40.42	ug/L	97
68) 2-hexanone	10.487	43	596126	197.33	ug/L	99
69) 1-Chlorohexane	10.791	91	430877	39.44	ug/L	98
70) Ethylbenzene	10.858	91	1502956	38.69	ug/L	99
71) Chlorobenzene	10.864	112	890846	39.11	ug/L	99
72) 1,1,1,2-Tetrachloroethane	10.913	131	306884	40.51	ug/L	98
73) m,p-Xylene	10.998	91	2289138	78.77	ug/L	99
74) o-Xylene	11.436	91	1221647	42.61	ug/L	99
75) Styrene	11.485	104	973244	40.08	ug/L	99
76) Bromoform	11.546	173	184564	40.31	ug/L	99
77) Isopropylbenzene	11.740	105	1435432	42.61	ug/L	99
80) cis-1,4-Dichloro-2-butene	12.087	53	77172	43.33	ug/L	96
81) n-Propylbenzene	12.160	91	1727719	40.43	ug/L	99
82) Bromobenzene	12.185	156	400251	39.37	ug/L	98
83) 1,1,2,2-Tetrachloroethane	12.221	83	303178	39.07	ug/L	98
84) 1,3,5-Trimethylbenzene	12.343	105	1318558	42.03	ug/L	99
85) 2-Chlorotoluene	12.349	91	1237537	39.78	ug/L	100
86) trans-1,4-Dichloro-2-B...	12.397	53	71010	42.73	ug/L	98
87) 1,2,3-Trichloropropane	12.379	110	81276	40.86	ug/L	98
88) Cyclohexanone	12.446	55	42934	198.95	ug/L	94
89) 4-Chlorotoluene	12.519	91	1148002	41.01	ug/L	99
90) a-Methyl Styrene	12.604	118	751566	41.76	ug/L	100

SGS ACCUTEST FA34224

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\052616\
Data File : J0976813.D
Acq On : 26 May 2016 9:10 am
Operator : DARSHNAP
Sample : cc5312-5 Inst : MSVOA6
Misc : MS33990,VJ5315,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 26 13:40:22 2016
Quant Method : C:\msdchem\2\methods\MSJ052316a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed May 25 09:12:25 2016
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
91)	tert-Butylbenzene	12.683	91	719606	39.71	ug/L		99
92)	1,2,4-Trimethylbenzene	12.750	105	1314814	41.87	ug/L		99
93)	Pentachloroethane	12.738	167	265700	43.43	ug/L		98
94)	sec-Butylbenzene	12.866	105	1562593	41.34	ug/L		100
95)	4-Isopropyltoluene	13.000	119	1358796	41.19	ug/L		99
96)	1,3-Dichlorobenzene	13.134	146	707052	40.25	ug/L		99
97)	1,4-Dichlorobenzene	13.219	146	711997	38.97	ug/L		99
98)	n-Butylbenzene	13.432	92	751716	41.82	ug/L		98
99)	Benzyl Chloride	13.444	126	119791	43.22	ug/L	#	90
100)	1,2-Dichlorobenzene	13.645	146	641610	39.14	ug/L		99
101)	1,2-Dibromo-3-Chloropr...	14.381	75	40853	38.05	ug/L		97
102)	Hexachlorobutadiene	14.928	225	285327	38.69	ug/L		99
103)	1,2,4-Trichlorobenzene	14.971	180	446500	40.96	ug/L		100
104)	Naphthalene	15.257	128	640322	38.95	ug/L		99
105)	1,2,3-Trichlorobenzene	15.427	180	373507	39.52	ug/L		98
107)	Ethanol	4.276	45	36161m	705.37	ug/L		
108)	acrolein	4.757	56	183533	238.44	ug/L		96
109)	Tert Butyl Alcohol	5.377	59	171901	372.00	ug/L		92
110)	tert Amyl alcohol	7.573	59	136464	404.57	ug/L		93
111)	Isobutyl alcohol	7.452	42	113727	762.52	ug/L	#	91
112)	1,4-Dioxane	8.668	88	40419	767.14	ug/L		92
113)	3,3-Dimethyl-1-butanol	10.432	57	745272	1840.14	ug/L		99

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

7.6.9

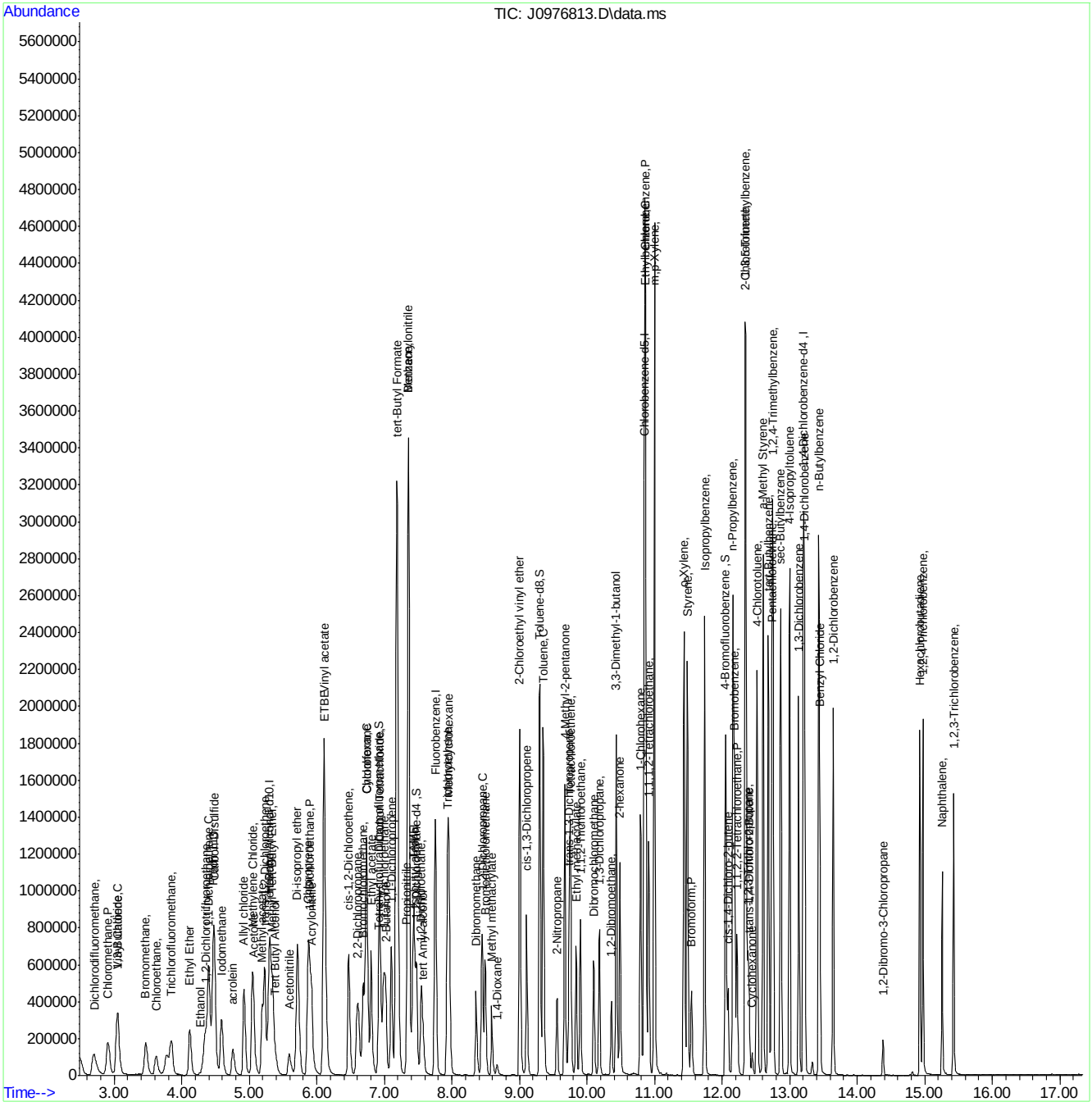
7

SGS ACCUTEST FA34224

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\052616\
Data File : J0976813.D
Acq On : 26 May 2016 9:10 am
Operator : DARSHNAP
Sample : cc5312-5 Inst : MSVOA6
Misc : MS33990,VJ5315,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 26 13:40:22 2016
Quant Method : C:\msdchem\2\methods\MSJ052316a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed May 25 09:12:25 2016
Response via : Initial Calibration



SGS ACCUTEST FA34224

Manual Integration Approval Summary

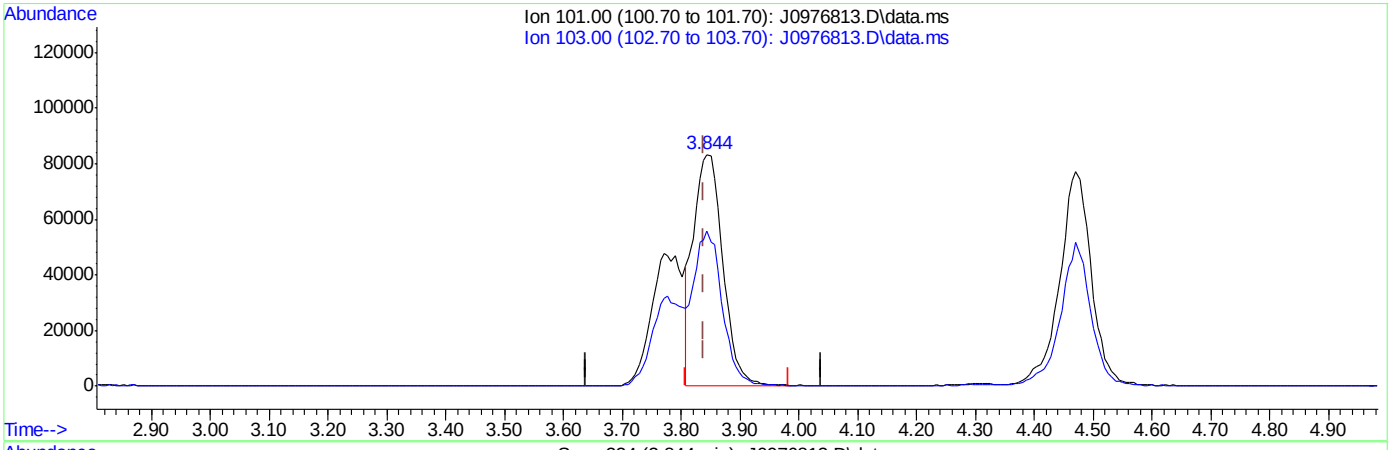
Sample Number:	VJ5315-CC5312	**Method:**	SW846 8260B
Lab FileID:	J0976813.D	**Analyst approved:**	05/26/16 14:00 Darshna Patel
Injection Time:	05/26/16 09:10	**Supervisor approved:**	05/26/16 17:41 Juan Garcia

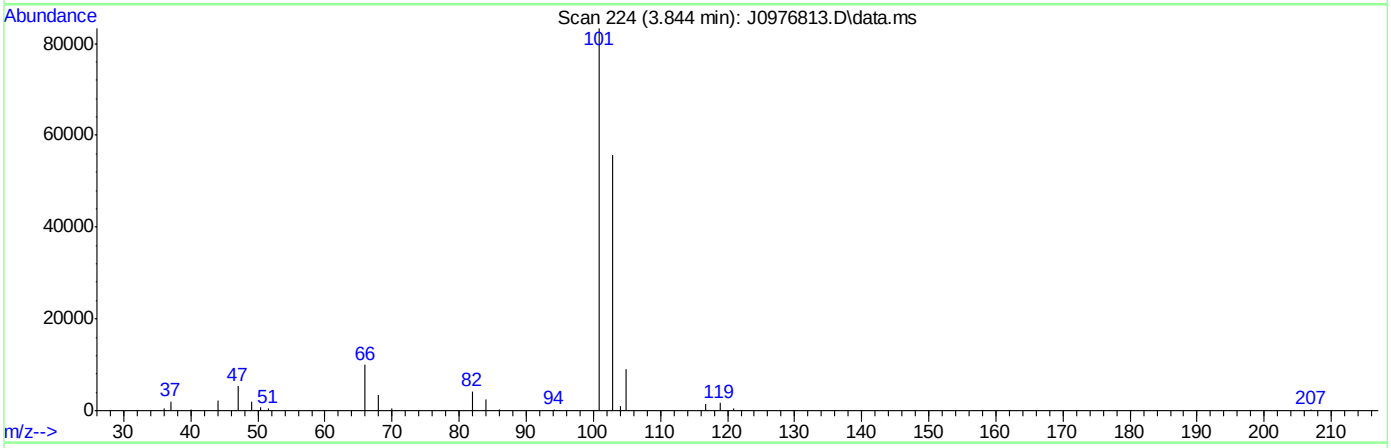
Parameter	CAS	Sig#	R.T. (min.)	Reason
Trichlorofluoromethane	75-69-4		3.84	Split peak
Ethyl Alcohol	64-17-5		4.28	Poor instrument integration
Carbon Tetrachloride	56-23-5		6.93	Overlapping peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\052616\
Data File : J0976813.D
Acq On : 26 May 2016 9:10 am
Operator : DARSHNAP
Sample : cc5312-5 Inst : MSVOA6
Misc : MS33990,VJ5315,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 26 13:39:56 2016
Quant Method : C:\msdchem\2\methods\MSJ052316a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed May 25 09:12:25 2016
Response via : Initial Calibration





TIC: J0976813.D\data.ms

(8) Trichlorofluoromethane ( )

3.844min (+0.006) 22.26ug/L

response 288975

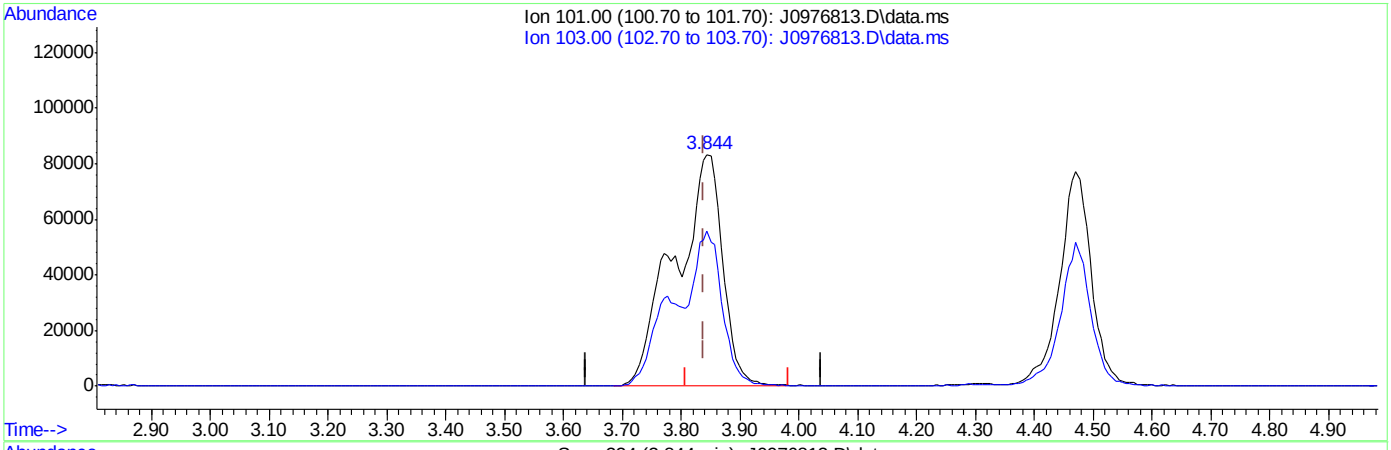
Ion	Exp%	Act%
101.00	100	100
103.00	62.30	66.49
0.00	0.00	0.00
0.00	0.00	0.00

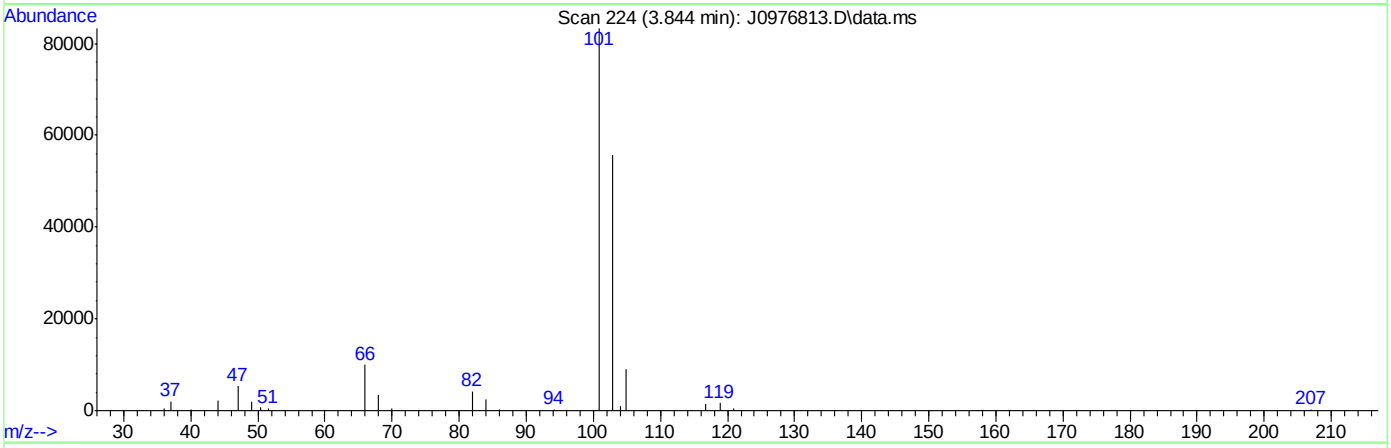
SGS ACCUTEST FA34224

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\052616\
Data File : J0976813.D
Acq On : 26 May 2016 9:10 am
Operator : DARSHNAP
Sample : cc5312-5 Inst : MSVOA6
Misc : MS33990,VJ5315,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 26 13:39:56 2016
Quant Method : C:\msdchem\2\methods\MSJ052316a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed May 25 09:12:25 2016
Response via : Initial Calibration





TIC: J0976813.D\data.ms

(8) Trichlorofluoromethane ( )

3.844min (+0.006) 36.14ug/L m

response 469237

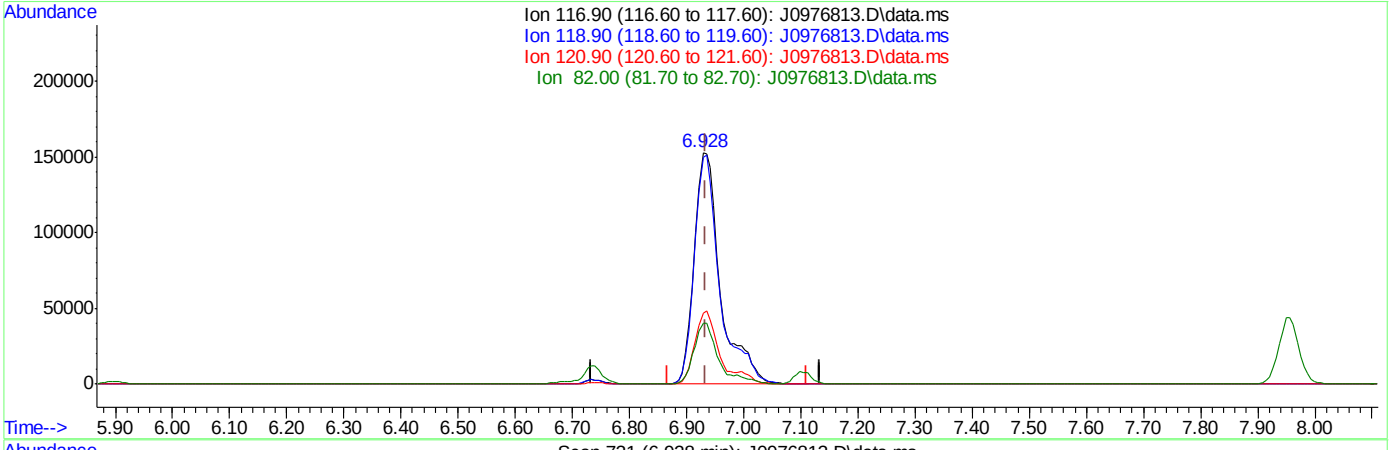
Ion	Exp%	Act%
101.00	100	100
103.00	62.30	66.85
0.00	0.00	0.00
0.00	0.00	0.00

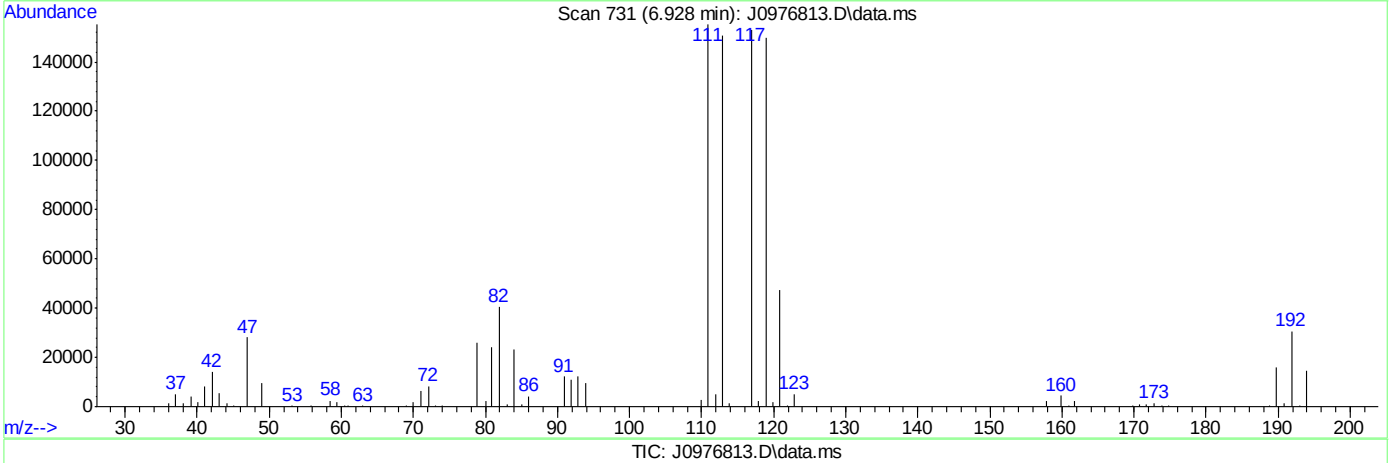
SGS ACCUTEST FA34224

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\052616\
Data File : J0976813.D
Acq On : 26 May 2016 9:10 am
Operator : DARSHNAP
Sample : cc5312-5 Inst : MSVOA6
Misc : MS33990,VJ5315,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 26 13:39:56 2016
Quant Method : C:\msdchem\2\methods\MSJ052316a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed May 25 09:12:25 2016
Response via : Initial Calibration





TIC: J0976813.D\data.ms

(37) Carbon Tetrachloride ( )

6.928min (-0.006) 44.62ug/L

response 488329

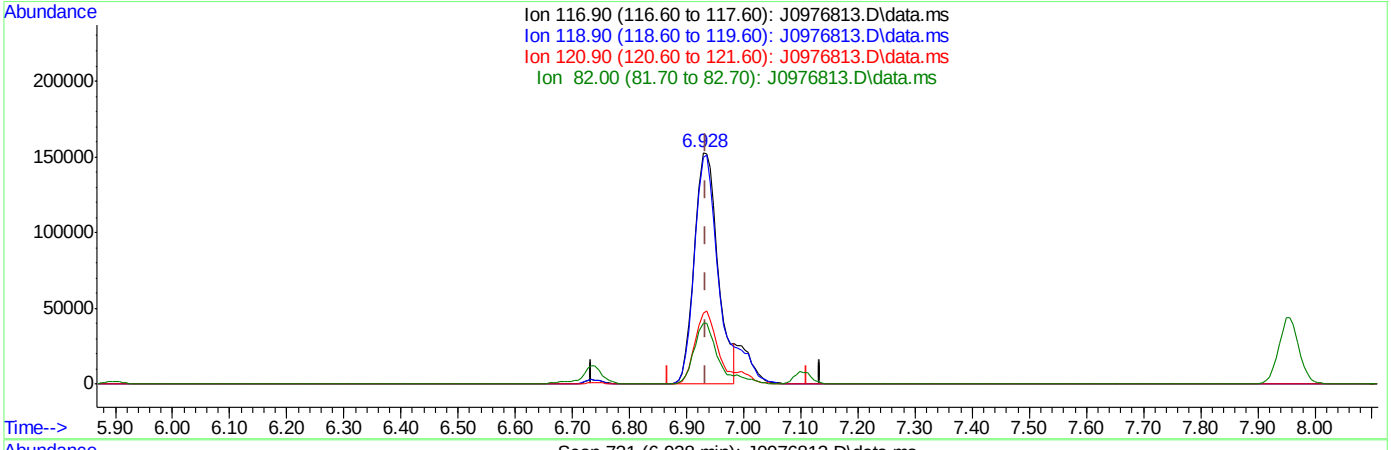
Ion	Exp%	Act%
116.90	100	100
118.90	99.10	97.95
120.90	32.20	30.84
82.00	25.20	26.37

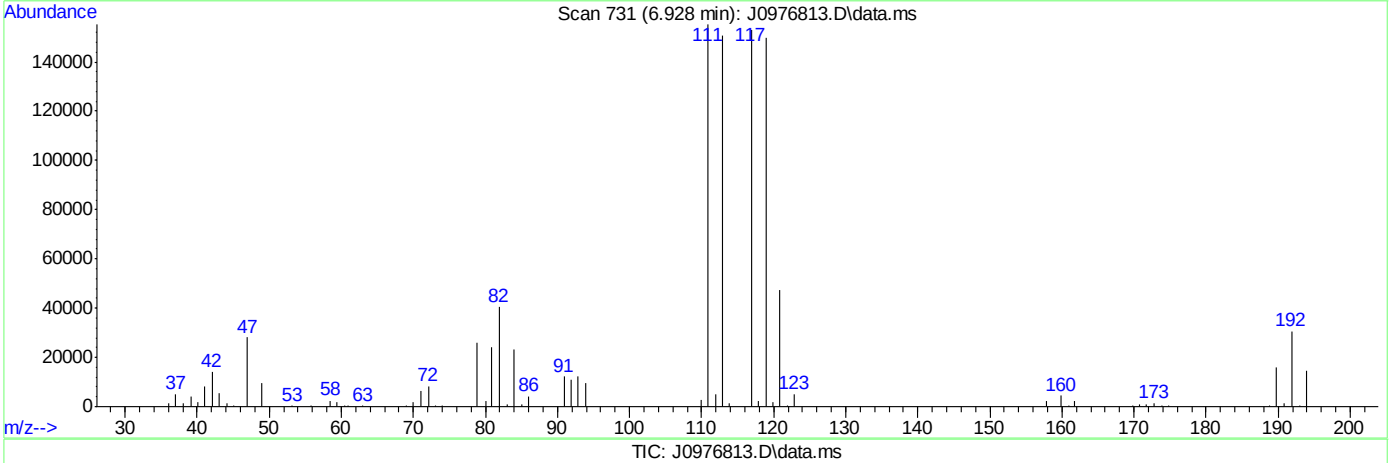
SGS ACCUTEST FA34224

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\052616\
Data File : J0976813.D
Acq On : 26 May 2016 9:10 am
Operator : DARSHNAP
Sample : cc5312-5 Inst : MSVOA6
Misc : MS33990,VJ5315,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 26 13:39:56 2016
Quant Method : C:\msdchem\2\methods\MSJ052316a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed May 25 09:12:25 2016
Response via : Initial Calibration





TIC: J0976813.D\data.ms

(37) Carbon Tetrachloride ( )

6.928min (-0.006) 39.96ug/L m

response 437353

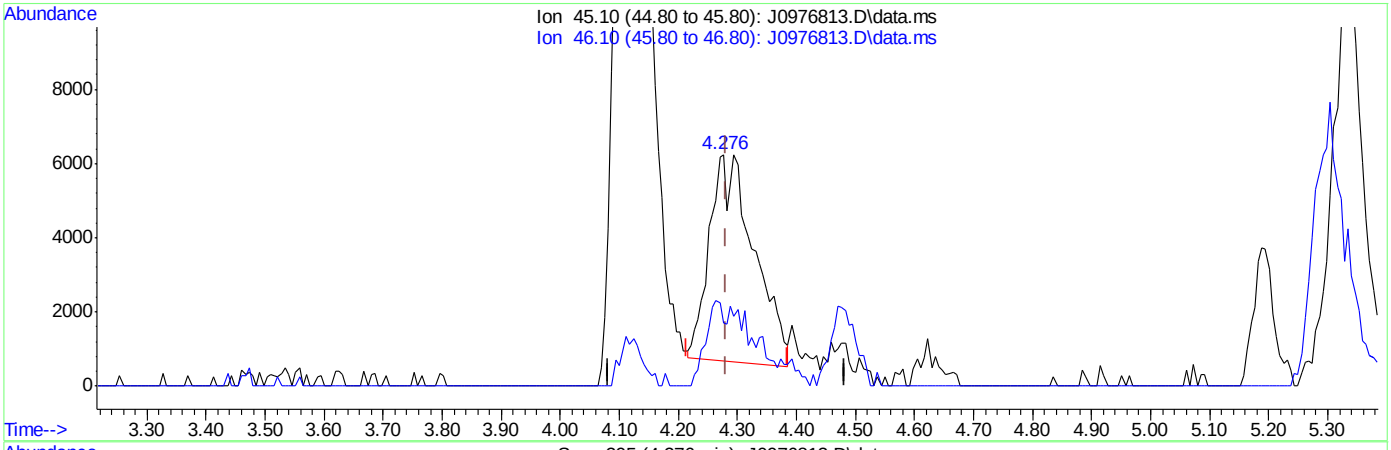
Ion	Exp%	Act%
116.90	100	100
118.90	99.10	97.95
120.90	32.20	30.84
82.00	25.20	26.37

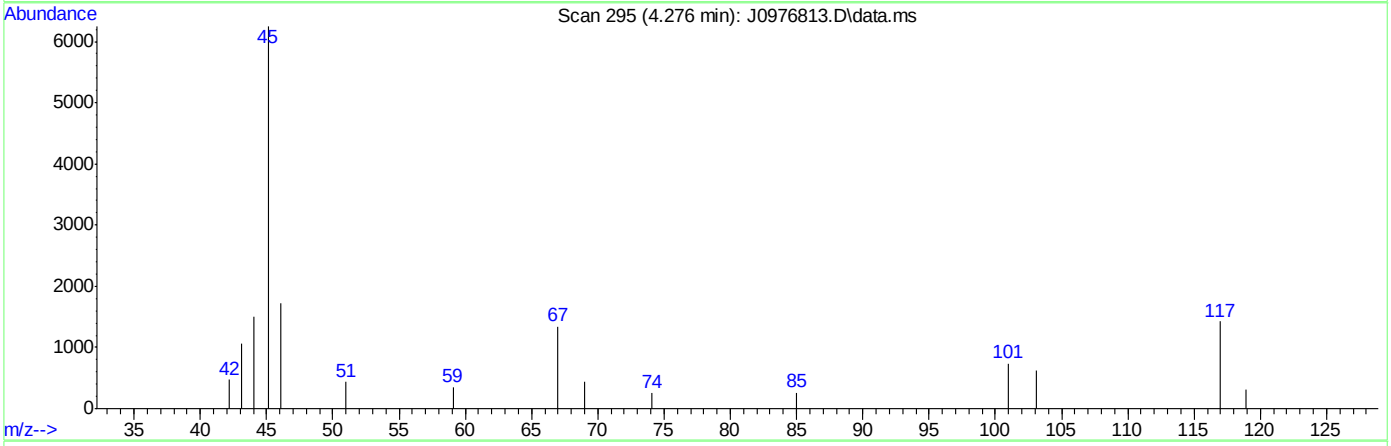
SGS ACCUTEST FA34224

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\052616\
Data File : J0976813.D
Acq On : 26 May 2016 9:10 am
Operator : DARSHNAP
Sample : cc5312-5 Inst : MSVOA6
Misc : MS33990,VJ5315,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 26 13:39:56 2016
Quant Method : C:\msdchem\2\methods\MSJ052316a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed May 25 09:12:25 2016
Response via : Initial Calibration





TIC: J0976813.D\data.ms

(107) Ethanol

4.276min (-0.006) 569.14ug/L

response 29177

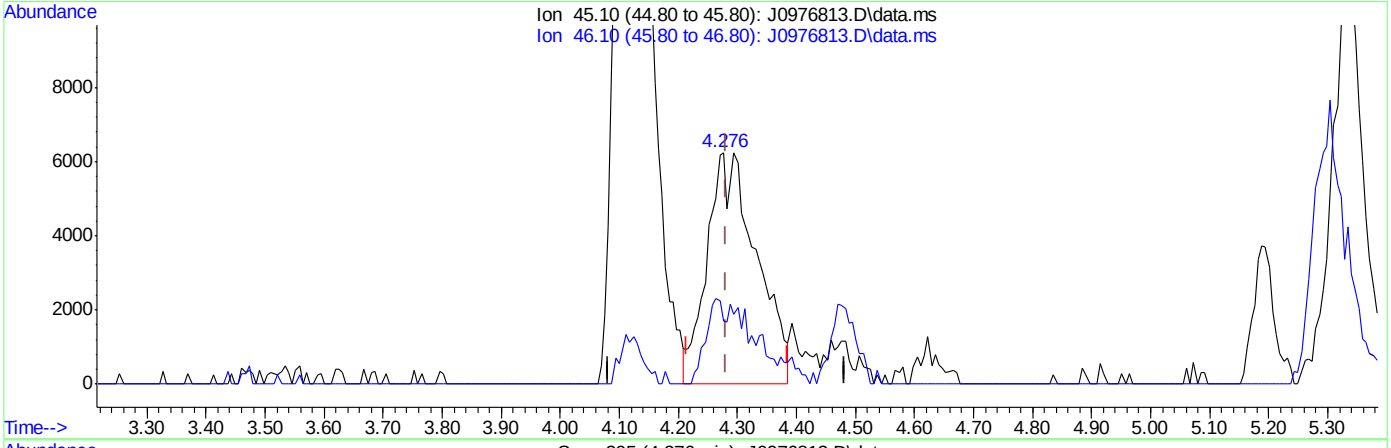
Ion	Exp%	Act%
45.10	100	100
46.10	34.10	32.45
0.00	0.00	0.00
0.00	0.00	0.00

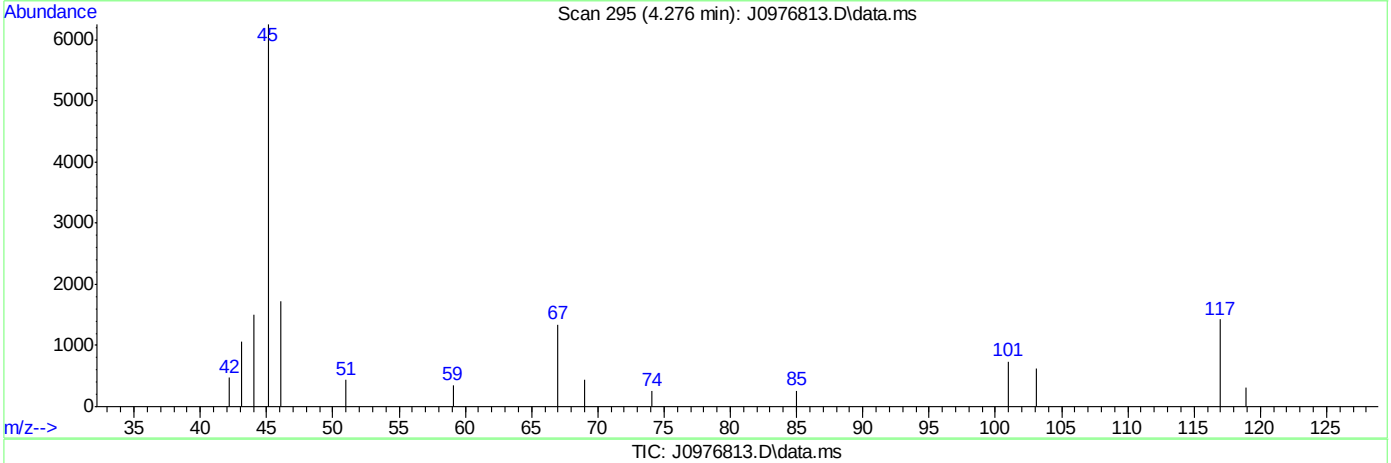
SGS ACCUTEST FA34224

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\052616\
Data File : J0976813.D
Acq On : 26 May 2016 9:10 am
Operator : DARSHNAP
Sample : cc5312-5 Inst : MSVOA6
Misc : MS33990,VJ5315,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 26 13:39:56 2016
Quant Method : C:\msdchem\2\methods\MSJ052316a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed May 25 09:12:25 2016
Response via : Initial Calibration





TIC: J0976813.D\data.ms

(107) Ethanol

4.276min (-0.006) 705.37ug/L m

response 36161

Ion	Exp%	Act%
45.10	100	100
46.10	34.10	27.45
0.00	0.00	0.00
0.00	0.00	0.00

SGS ACCUTEST FA34224

Manual Integrations APPROVED (compounds with "m" flag)
Juan Garcia
05/27/16 13:56

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\052616\
Data File : J0976839.D
Acq On : 26 May 2016 7:21 pm
Operator : DARSHNAP
Sample : ecc5312-5 Inst : MSVOA6
Misc : MS34006,VJ5315,,,,,
ALS Vial : 22 Sample Multiplier: 1

Quant Time: May 27 08:31:47 2016
Quant Method : C:\msdchem\2\methods\MSJ052316a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed May 25 09:12:25 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.756	96	1300595	50.00	ug/L	0.00
56) Chlorobenzene-d5	10.846	117	1062318	50.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	13.201	152	595144	50.00	ug/L	0.00
106) Tert Butyl Alcohol-d10	5.304	65	84041	250.00	ug/L	0.00
System Monitoring Compounds						
36) Dibromofluoromethane	6.928	113	328213	49.85	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 99.70%			
46) 1,2-Dichloroethane-d4	7.476	65	355073	47.84	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 95.68%			
57) Toluene-d8	9.301	98	1327675	49.42	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 98.84%			
79) 4-Bromofluorobenzene	12.051	95	541521	49.37	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 98.74%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.700	85	335206	39.21	ug/L	99
3) Chloromethane	2.907	50	365214	38.31	ug/L	98
4) Vinyl Chloride	3.053	62	355872	37.12	ug/L	95
5) 1,3-Butadiene	3.047	54	186729	46.79	ug/L	97
6) Bromomethane	3.473	94	203193	37.15	ug/L	98
7) Chloroethane	3.619	64	156968	38.61	ug/L	100
8) Trichlorofluoromethane	3.838	101	481067m	37.26	ug/L	
9) Ethyl Ether	4.118	59	211811	37.10	ug/L	90
10) 1,2-Dichlorotrifluoroe...	4.361	67	324685	36.44	ug/L	96
11) 1,1-Dichloroethene	4.398	61	408239	36.68	ug/L	96
12) Freon 113	4.477	101	281639	36.22	ug/L	92
13) Carbon Disulfide	4.477	76	939842	36.49	ug/L	98
14) Iodomethane	4.586	142	468651	37.09	ug/L	99
15) Allyl chloride	4.927	41	380884	39.90	ug/L	95
16) Methylene Chloride	5.049	49	343568	35.11	ug/L	97
17) Acetone	5.073	58	74905	168.81	ug/L	100
18) Methyl acetate	5.195	74	154314	199.36	ug/L #	87
19) trans-1,2-Dichloroethene	5.231	61	372571	37.33	ug/L	98
20) Hexane	5.304	56	247087	37.13	ug/L	98
21) Methyl Tert Butyl Ether	5.341	73	736566	37.93	ug/L	99
22) Acetonitrile	5.590	40	102289	351.43	ug/L	91
23) Di-isopropyl ether	5.718	45	839651	38.62	ug/L	98
24) Chloroprene	5.870	53	443010	41.72	ug/L	97
25) 1,1-Dichloroethane	5.900	63	504037	38.00	ug/L	99
26) Acrylonitrile	5.925	53	330819	180.18	ug/L	95
27) ETBE	6.119	59	864389	38.96	ug/L	98
28) Vinyl acetate	6.107	43	2134436	188.84	ug/L	99
29) cis-1,2-Dichloroethene	6.478	96	330135	38.45	ug/L	99
30) 2,2-Dichloropropane	6.612	77	411331	37.58	ug/L	98
31) Bromochloromethane	6.691	128	148523	38.60	ug/L	98
32) Cyclohexane	6.734	56	491639	39.78	ug/L	98
33) Chloroform	6.740	83	543165	37.83	ug/L	99
34) Ethyl acetate	6.807	43	763220	187.84	ug/L	100

SGS ACCUTEST FA34224

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\052616\
Data File : J0976839.D
Acq On : 26 May 2016 7:21 pm
Operator : DARSHNAP
Sample : ecc5312-5 Inst : MSVOA6
Misc : MS34006,VJ5315,,,,,
ALS Vial : 22 Sample Multiplier: 1

Quant Time: May 27 08:31:47 2016
Quant Method : C:\msdchem\2\methods\MSJ052316a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed May 25 09:12:25 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
35) Tetrahydrofuran	6.916	42	43929	36.59 ug/L	93
37) Carbon Tetrachloride	6.934	117	402356m	36.97 ug/L	
38) 1,1,1-Trichloroethane	6.995	97	479952	37.29 ug/L	99
39) 2-Butanone	7.020	43	311134	175.62 ug/L	99
40) 1,1-Dichloropropene	7.105	75	388219	39.01 ug/L	98
41) tert-Butyl Formate	7.190	59	1722998	332.82 ug/L	99
42) Propionitrile	7.330	54	238852	363.22 ug/L #	73
43) Methacrylonitrile	7.360	41	961543	363.26 ug/L	98
44) Benzene	7.360	78	1196622	38.30 ug/L	97
45) TAME	7.433	73	789018	38.96 ug/L	98
47) 1,2-Dichloroethane	7.549	62	353008	37.24 ug/L	97
48) Trichloroethene	7.932	95	302033	37.65 ug/L	97
49) Methylcyclohexane	7.956	83	552700	40.16 ug/L	99
50) Dibromomethane	8.358	93	158508	38.09 ug/L	97
51) 1,2-Dichloropropane	8.449	63	285993	37.15 ug/L	97
52) Bromodichloromethane	8.492	83	372068	37.63 ug/L	97
53) Methyl methacrylate	8.589	41	139410	36.63 ug/L	95
54) 2-Chloroethyl vinyl ether	9.009	63	723245	190.63 ug/L	96
55) cis-1,3-Dichloropropene	9.106	75	449035	40.41 ug/L	98
58) Toluene	9.356	91	1275611	38.46 ug/L	99
59) 2-Nitropropane	9.556	41	203747	186.50 ug/L	97
60) 4-Methyl-2-pentanone	9.672	43	800302	193.81 ug/L	99
61) trans-1,3-Dichloropropene	9.733	75	377786	40.06 ug/L	98
62) Tetrachloroethene	9.757	166	324012	38.07 ug/L	98
63) Ethyl methacrylate	9.836	69	291836	38.61 ug/L	98
64) 1,1,2-Trichloroethane	9.903	83	203195	38.53 ug/L	96
65) Dibromochloromethane	10.098	129	269172	39.11 ug/L	100
66) 1,3-Dichloropropane	10.183	76	402152	37.61 ug/L	98
67) 1,2-Dibromoethane	10.360	107	226744	38.38 ug/L	99
68) 2-hexanone	10.487	43	554334	184.84 ug/L	100
69) 1-Chlorohexane	10.798	91	416372	38.45 ug/L	97
70) Ethylbenzene	10.858	91	1457100	37.77 ug/L	99
71) Chlorobenzene	10.864	112	855317	37.82 ug/L	99
72) 1,1,1,2-Tetrachloroethane	10.913	131	287926	38.34 ug/L	97
73) m,p-Xylene	10.998	91	2212287	76.51 ug/L	99
74) o-Xylene	11.436	91	1158641	40.77 ug/L	99
75) Styrene	11.485	104	917232	38.08 ug/L	100
76) Bromoform	11.546	173	166431	36.76 ug/L	99
77) Isopropylbenzene	11.740	105	1402965	42.01 ug/L	99
80) cis-1,4-Dichloro-2-butene	12.087	53	42255	24.50 ug/L	94
81) n-Propylbenzene	12.160	91	1682427	40.01 ug/L	100
82) Bromobenzene	12.185	156	380767	38.07 ug/L	96
83) 1,1,2,2-Tetrachloroethane	12.215	83	285988	37.46 ug/L	98
84) 1,3,5-Trimethylbenzene	12.343	105	1269661	41.13 ug/L	99
85) 2-Chlorotoluene	12.349	91	1172414	38.30 ug/L	99
86) trans-1,4-Dichloro-2-B...	12.398	53	42403	26.15 ug/L #	80
87) 1,2,3-Trichloropropane	12.379	110	75926	38.80 ug/L	96
88) Cyclohexanone	12.446	55	27583	129.91 ug/L	94
89) 4-Chlorotoluene	12.513	91	1091734	39.64 ug/L	99
90) a-Methyl Styrene	12.604	118	701414	39.63 ug/L	99

SGS ACCUTEST FA34224

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\052616\
Data File : J0976839.D
Acq On : 26 May 2016 7:21 pm
Operator : DARSHNAP
Sample : ecc5312-5 Inst : MSVOA6
Misc : MS34006,VJ5315,,,,,
ALS Vial : 22 Sample Multiplier: 1

Quant Time: May 27 08:31:47 2016
Quant Method : C:\msdchem\2\methods\MSJ052316a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed May 25 09:12:25 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
91) tert-Butylbenzene	12.683	91	705767	39.58	ug/L	98
92) 1,2,4-Trimethylbenzene	12.750	105	1265741	40.97	ug/L	100
93) Pentachloroethane	12.738	167	245327	40.76	ug/L	98
94) sec-Butylbenzene	12.866	105	1521258	40.90	ug/L	99
95) 4-Isopropyltoluene	13.000	119	1309551	40.35	ug/L	98
96) 1,3-Dichlorobenzene	13.134	146	674117	39.00	ug/L	99
97) 1,4-Dichlorobenzene	13.219	146	679139	37.74	ug/L	98
98) n-Butylbenzene	13.432	92	739731	41.83	ug/L	98
99) Benzyl Chloride	13.444	126	103096	38.11	ug/L	97
100) 1,2-Dichlorobenzene	13.645	146	618320	38.34	ug/L	98
101) 1,2-Dibromo-3-Chloropr...	14.381	75	36367	34.43	ug/L	86
102) Hexachlorobutadiene	14.928	225	275023	37.92	ug/L	98
103) 1,2,4-Trichlorobenzene	14.971	180	418389	39.01	ug/L	97
104) Naphthalene	15.257	128	607563	37.60	ug/L	100
105) 1,2,3-Trichlorobenzene	15.427	180	349778	37.65	ug/L	98
107) Ethanol	4.282	45	32218m	683.69	ug/L	
108) acrolein	4.763	56	183273	259.03	ug/L	99
109) Tert Butyl Alcohol	5.383	59	160864	379.12	ug/L	93
110) tert Amyl alcohol	7.573	59	123019	396.76	ug/L	95
111) Isobutyl alcohol	7.452	42	103400	754.20	ug/L	94
112) 1,4-Dioxane	8.668	88	39401	815.08	ug/L	90
113) 3,3-Dimethyl-1-butanol	10.432	57	651006	1744.66	ug/L	99

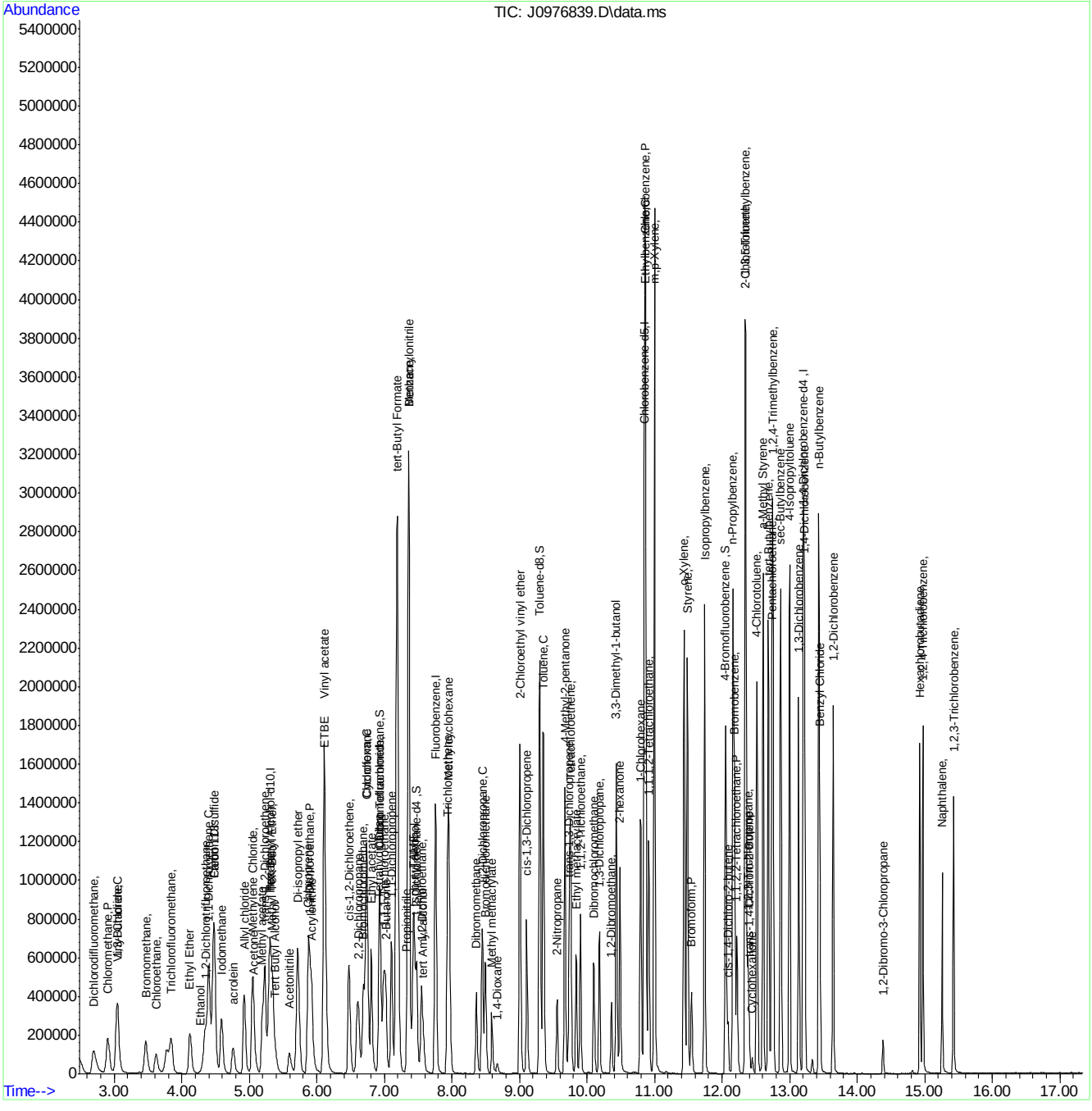
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST FA34224

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\052616\
Data File : J0976839.D
Acq On : 26 May 2016 7:21 pm
Operator : DARSHNAP
Sample : ecc5312-5 Inst : MSVOA6
Misc : MS34006,VJ5315,,,,,
ALS Vial : 22 Sample Multiplier: 1

Quant Time: May 27 08:31:47 2016
Quant Method : C:\msdchem\2\methods\MSJ052316a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed May 25 09:12:25 2016
Response via : Initial Calibration



Manual Integration Approval Summary

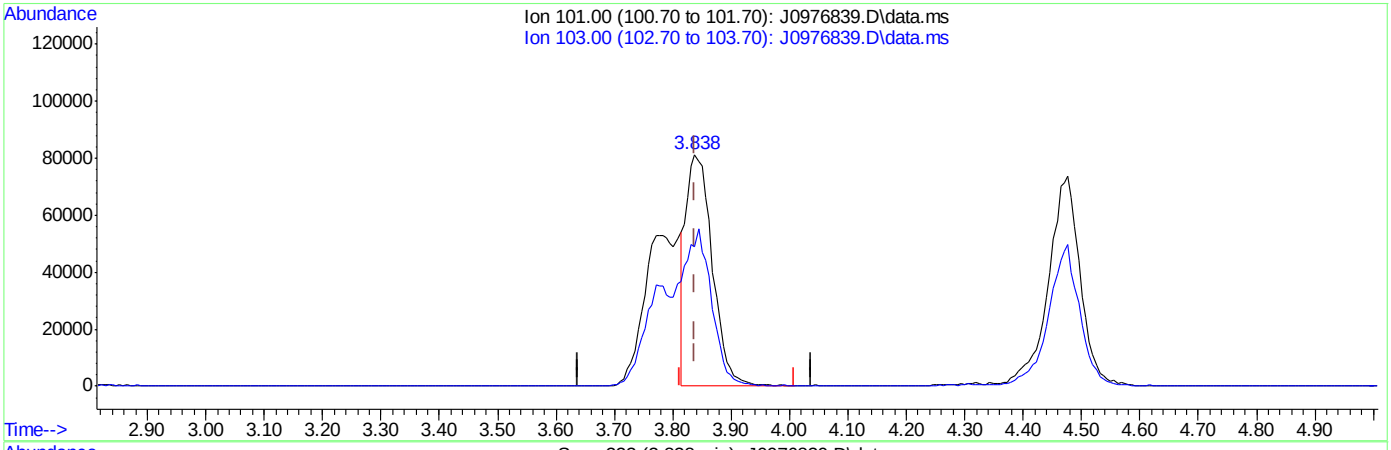
Sample Number:	VJ5315-ECC5312	**Method:**	SW846 8260B
Lab FileID:	J0976839.D	**Analyst approved:**	05/27/16 11:38 Darshna Patel
Injection Time:	05/26/16 19:21	**Supervisor approved:**	05/27/16 13:56 Juan Garcia

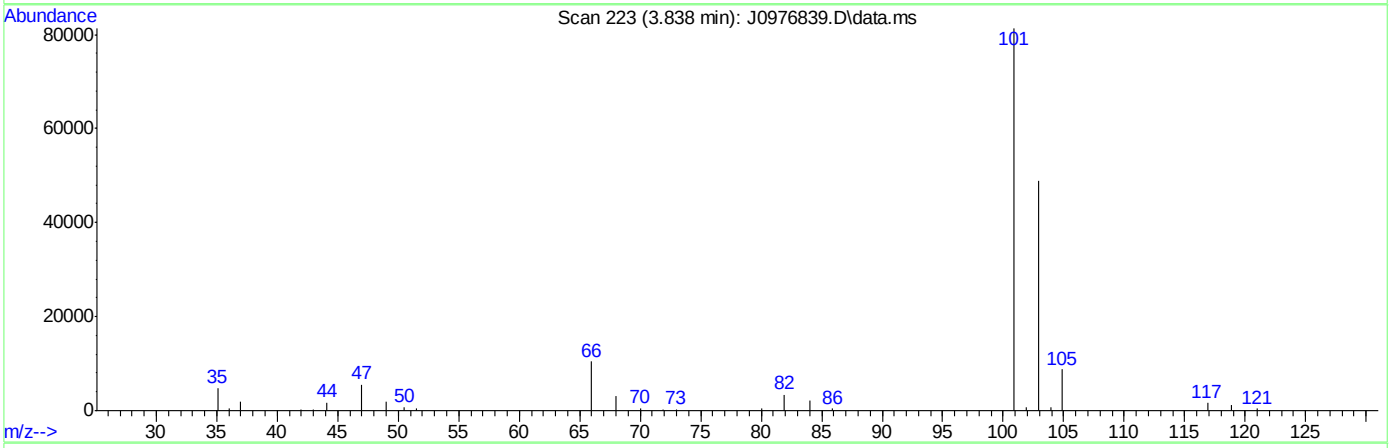
Parameter	CAS	Sig#	R.T. (min.)	Reason
Trichlorofluoromethane	75-69-4		3.84	Split peak
Ethyl Alcohol	64-17-5		4.28	Poor instrument integration
Carbon Tetrachloride	56-23-5		6.93	Overlapping peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\052616\
Data File : J0976839.D
Acq On : 26 May 2016 7:21 pm
Operator : DARSHNAP
Sample : ecc5312-5 Inst : MSVOA6
Misc : MS34006,VJ5315,,,,,
ALS Vial : 22 Sample Multiplier: 1

Quant Time: May 27 08:23:29 2016
Quant Method : C:\msdchem\2\methods\MSJ052316a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed May 25 09:12:25 2016
Response via : Initial Calibration





TIC: J0976839.D\data.ms

(8) Trichlorofluoromethane ( )

3.838min (-0.000) 19.85ug/L

response 256257

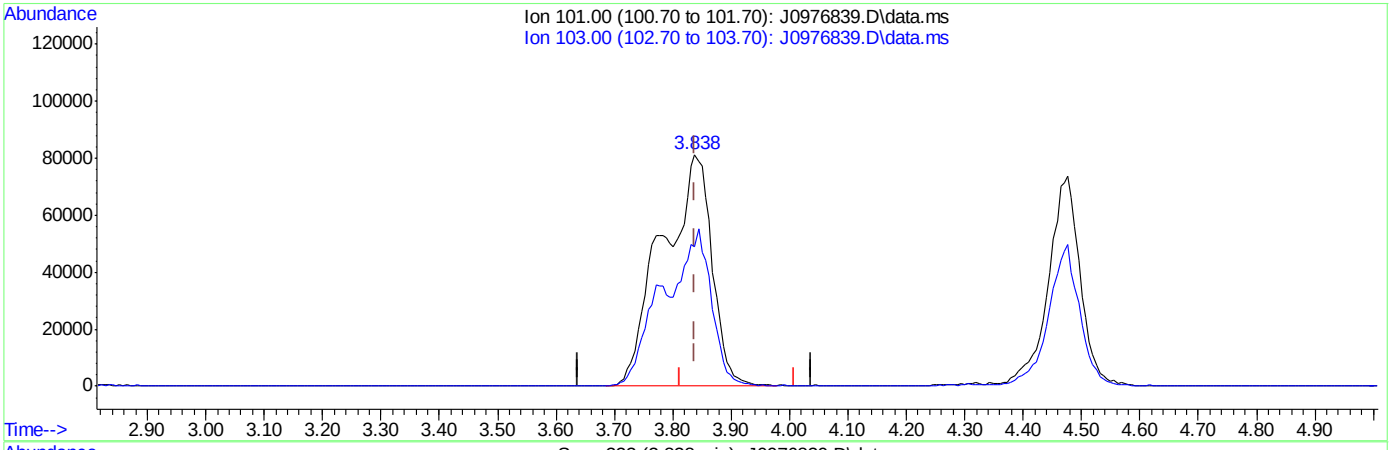
Ion	Exp%	Act%
101.00	100	100
103.00	62.30	60.17
0.00	0.00	0.00
0.00	0.00	0.00

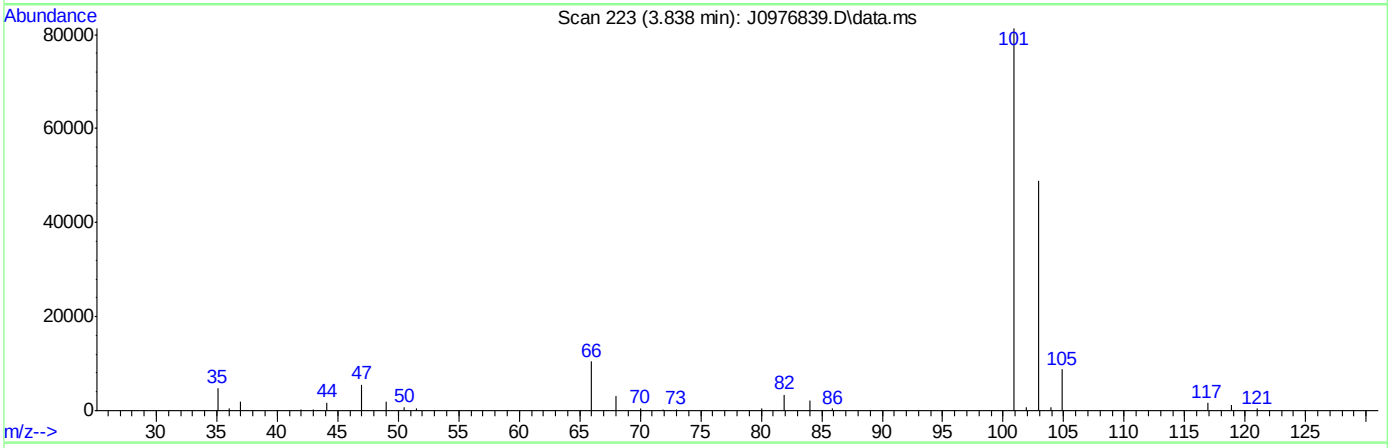
SGS ACCUTEST FA34224

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\052616\
Data File : J0976839.D
Acq On : 26 May 2016 7:21 pm
Operator : DARSHNAP
Sample : ecc5312-5 Inst : MSVOA6
Misc : MS34006,VJ5315,,,,,
ALS Vial : 22 Sample Multiplier: 1

Quant Time: May 27 08:23:29 2016
Quant Method : C:\msdchem\2\methods\MSJ052316a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed May 25 09:12:25 2016
Response via : Initial Calibration





TIC: J0976839.D\data.ms

(8) Trichlorofluoromethane ( )

3.838min (-0.000) 37.26ug/L m

response 481067

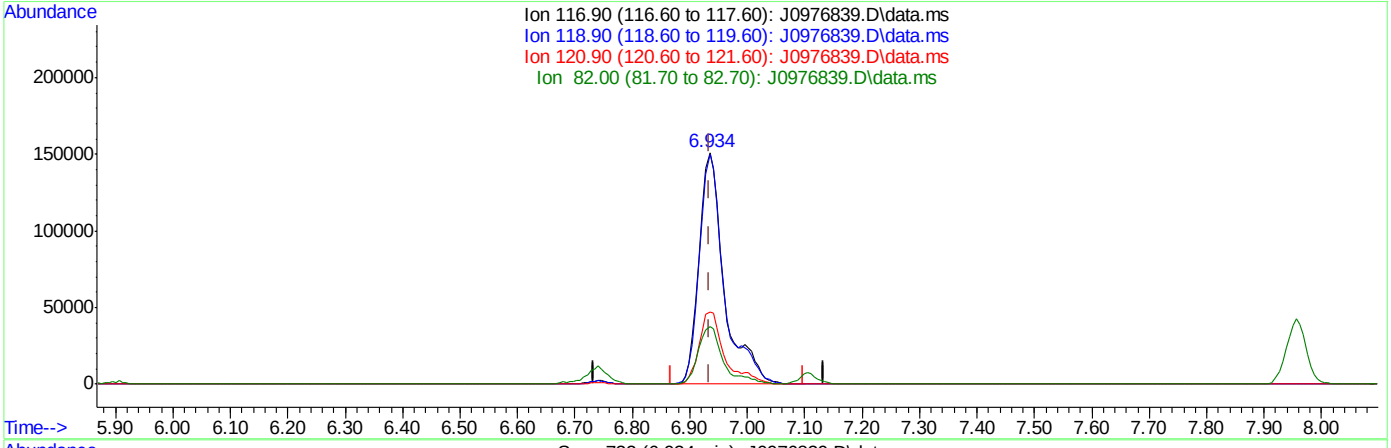
Ion	Exp%	Act%
101.00	100	100
103.00	62.30	60.17
0.00	0.00	0.00
0.00	0.00	0.00

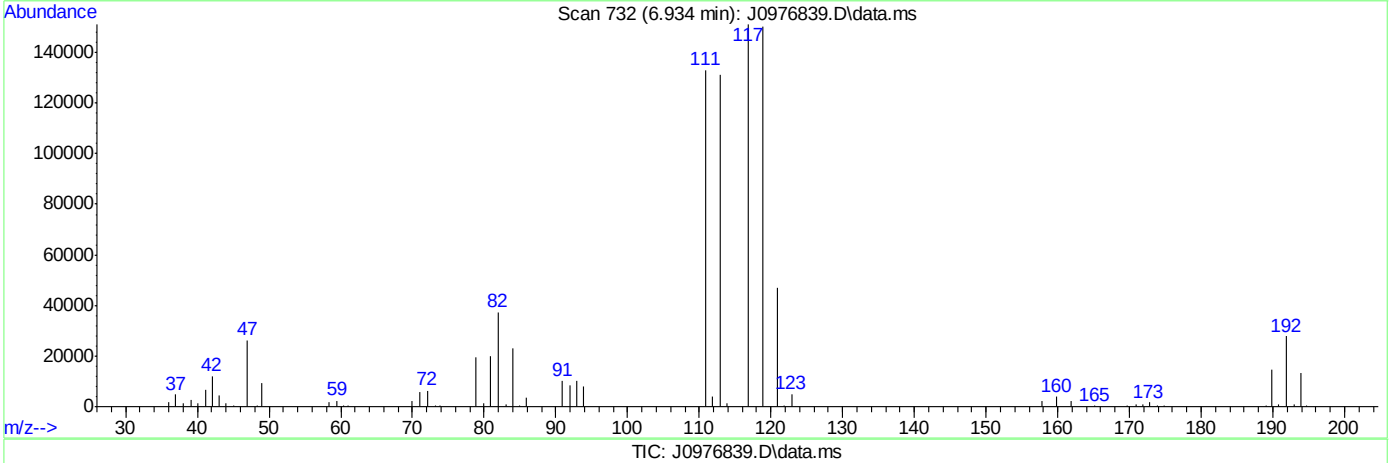
SGS ACCUTEST FA34224

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\052616\
Data File : J0976839.D
Acq On : 26 May 2016 7:21 pm
Operator : DARSHNAP
Sample : ecc5312-5 Inst : MSVOA6
Misc : MS34006,VJ5315,,,,,
ALS Vial : 22 Sample Multiplier: 1

Quant Time: May 27 08:23:29 2016
Quant Method : C:\msdchem\2\methods\MSJ052316a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed May 25 09:12:25 2016
Response via : Initial Calibration





TIC: J0976839.D\data.ms

(37) Carbon Tetrachloride ( )

6.934min (+0.000) 42.47ug/L

response 462324

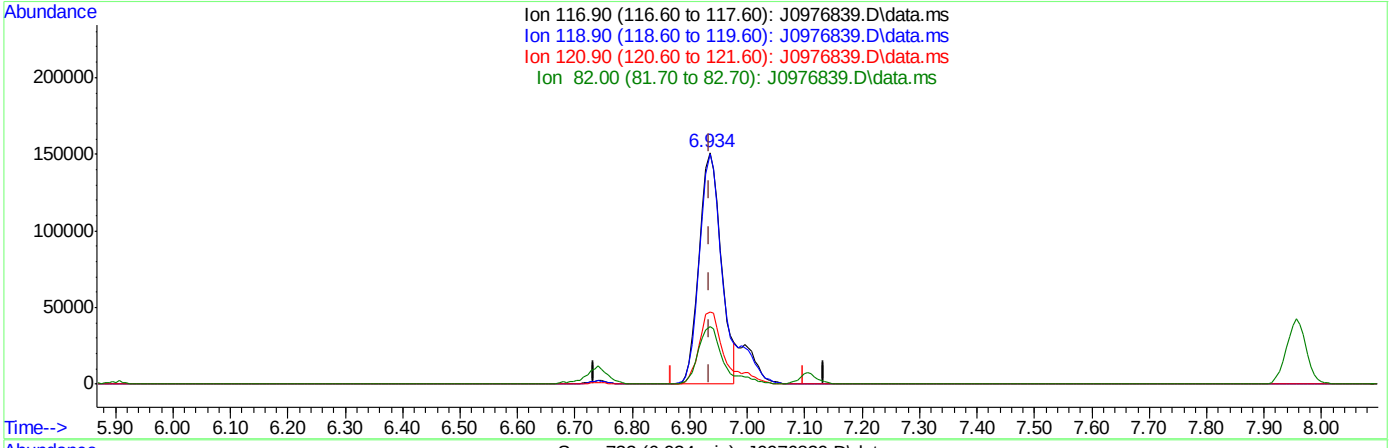
Ion	Exp%	Act%
116.90	100	100
118.90	99.10	99.32
120.90	32.20	31.09
82.00	25.20	24.64

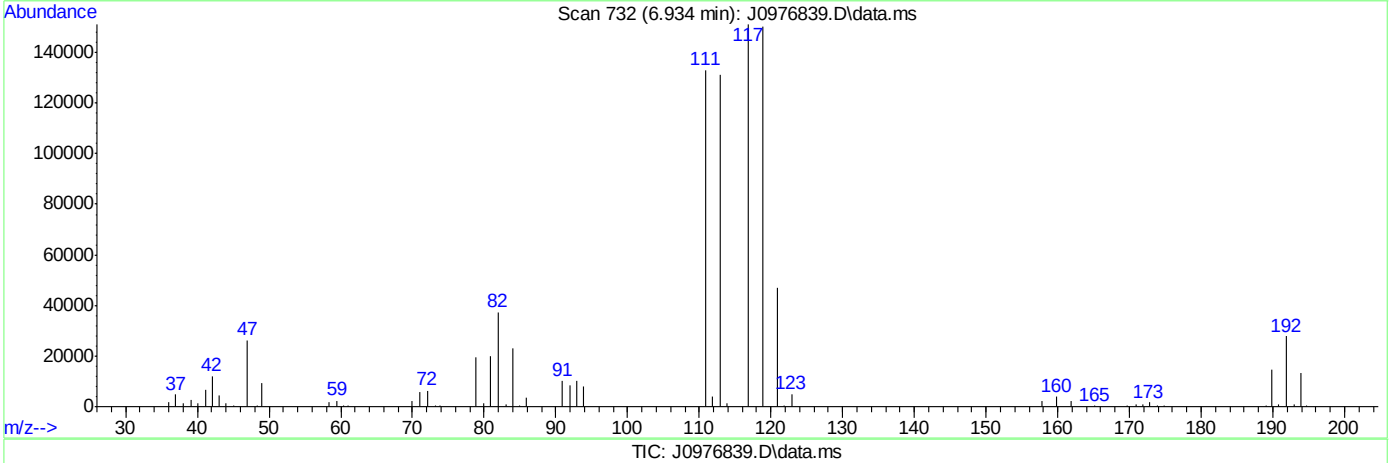
SGS ACCUTEST FA34224

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\052616\
Data File : J0976839.D
Acq On : 26 May 2016 7:21 pm
Operator : DARSHNAP
Sample : ecc5312-5 Inst : MSVOA6
Misc : MS34006,VJ5315,,,,,
ALS Vial : 22 Sample Multiplier: 1

Quant Time: May 27 08:23:29 2016
Quant Method : C:\msdchem\2\methods\MSJ052316a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed May 25 09:12:25 2016
Response via : Initial Calibration





TIC: J0976839.D\data.ms

(37) Carbon Tetrachloride ( )

6.934min (+0.000) 36.97ug/L m

response 402356

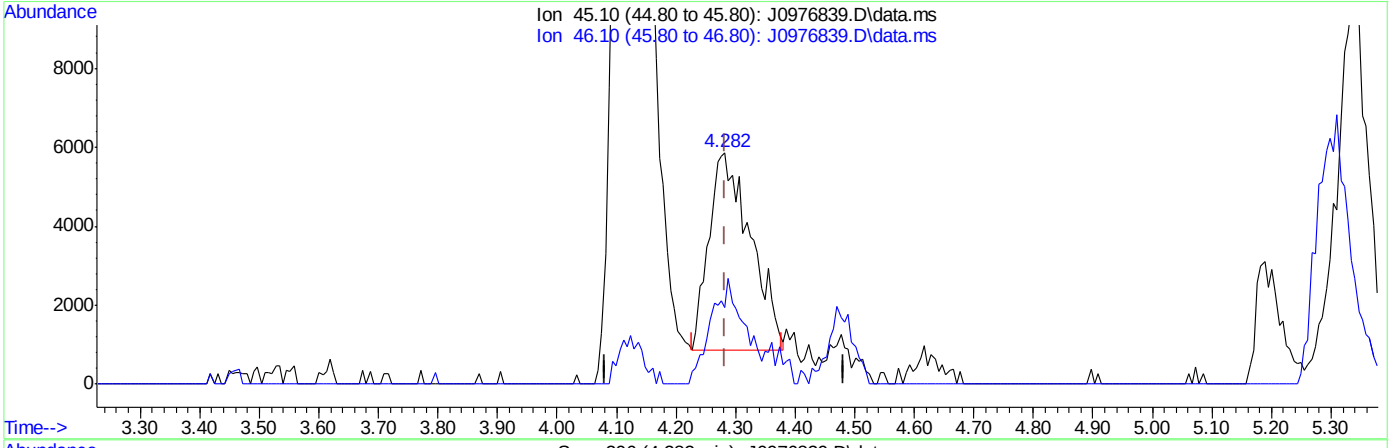
Ion	Exp%	Act%
116.90	100	100
118.90	99.10	99.32
120.90	32.20	31.09
82.00	25.20	24.64

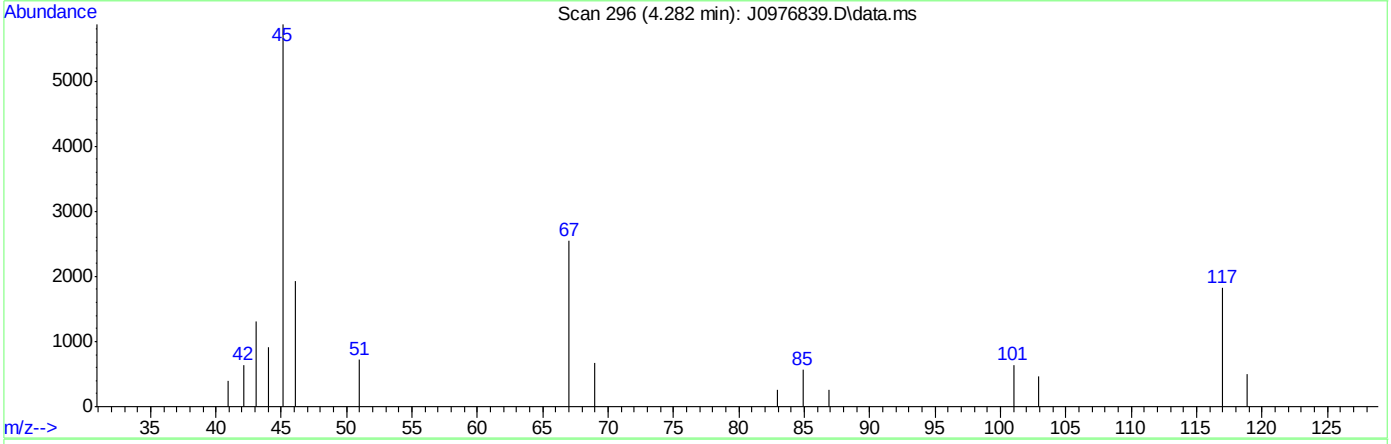
SGS ACCUTEST FA34224

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\052616\
Data File : J0976839.D
Acq On : 26 May 2016 7:21 pm
Operator : DARSHNAP
Sample : ecc5312-5 Inst : MSVOA6
Misc : MS34006,VJ5315,,,,,
ALS Vial : 22 Sample Multiplier: 1

Quant Time: May 27 08:23:29 2016
Quant Method : C:\msdchem\2\methods\MSJ052316a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed May 25 09:12:25 2016
Response via : Initial Calibration





TIC: J0976839.D\data.ms

(107) Ethanol

4.282min (0.000) 517.93ug/L

response 24407

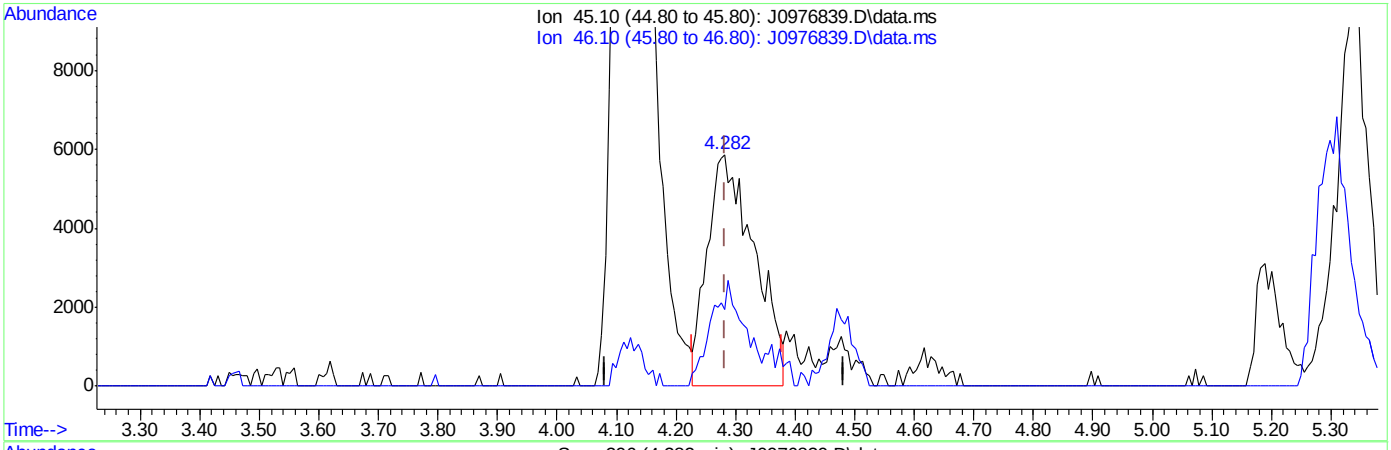
Ion	Exp%	Act%
45.10	100	100
46.10	34.10	31.92
0.00	0.00	0.00
0.00	0.00	0.00

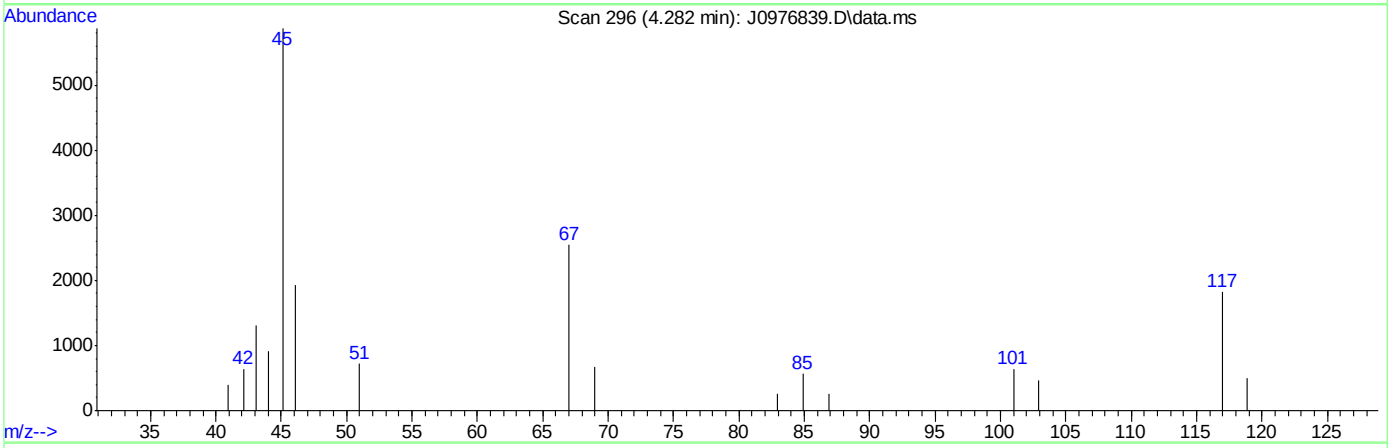
SGS ACCUTEST FA34224

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\052616\
Data File : J0976839.D
Acq On : 26 May 2016 7:21 pm
Operator : DARSHNAP
Sample : ecc5312-5 Inst : MSVOA6
Misc : MS34006,VJ5315,,,,,
ALS Vial : 22 Sample Multiplier: 1

Quant Time: May 27 08:23:29 2016
Quant Method : C:\msdchem\2\methods\MSJ052316a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed May 25 09:12:25 2016
Response via : Initial Calibration





TIC: J0976839.D\data.ms

(107) Ethanol

4.282min (0.000) 683.69ug/L m

response 32218

Ion	Exp%	Act%
45.10	100	100
46.10	34.10	32.85
0.00	0.00	0.00
0.00	0.00	0.00

SGS ACCUTEST FA34224

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

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

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

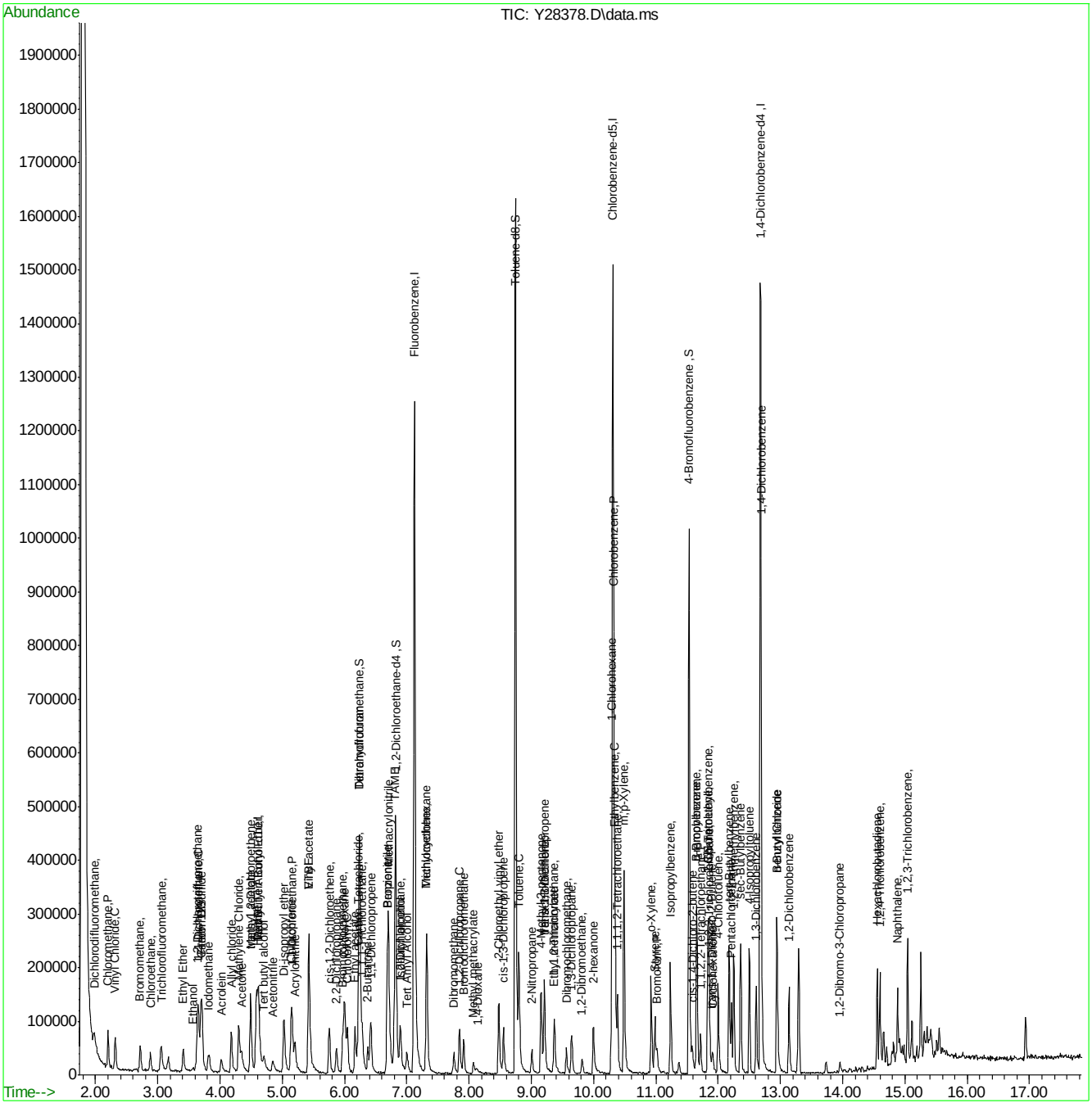
7

SGS ACCUTEST FA34224

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


Abundance
TIC: Y28378.D\data.ms
Time-->
Fluorobenzene,I
Toluene-d8,S
Chlorobenzene-d5,I
1,4-Dichlorobenzene-d4 ,I
4-Bromofluorobenzene ,S
1,2-Dichloroethane-d4 ,S
Chlorobenzene,P
1,4-Dichlorobenzene
1,2-Dichlorobenzene
1,2-Dibromo-3-Chloropropane
Naphthalene
1,2,3-Trichlorobenzene
Toluene,C
m,p-Xylene,
o-Xylene,
Isopropylbenzene,
Dichlorodifluoromethane,
Chloromethane,P
Vinyl Chloride,C
Bromomethane,
Chloroethane,
Trichlorofluoromethane,
Ethyl Ether
Ethanol
Iodomethane
Acrolein
Allyl chloride
Acetonitrile
Acrylonitrile
Ethyl Acetate
2-Butanone
Tert Amyl Alcohol
Dibromomethane
Methyl acrylate
cis-1,3-Dichloropropene
2-Nitropropane
1,2-Dibromoethane,
2-hexanone
1,1,1,2-Tetrachloroethane,C
1-Chlorohexane
Ethylbenzene,C
Pentachloroethane,
sec-Butylbenzene
1,3-Dichlorobenzene
Benzyl chloride
Hexachlorobutadiene
Hexachlorobenzene,
2-Chlorotoluene
4-Chlorotoluene
Bromobenzene,
Styrene,
Propylbenzene
1,2,4-Trichlorobenzene,
1,3,5-Trimethylbenzene
Dibromochloromethane
Bromoform
Methyl Methacrylate
Tert Amyl Alcohol
Tert butyl alcohol
Di-Isopropyl Ether
Methylene Chloride
Methyl Acetate
Methyl Methacrylate
Methyl Acrylonitrile
Methyl Methacrylate
Methyl Methacrylate
Methyl Methacrylate

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

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

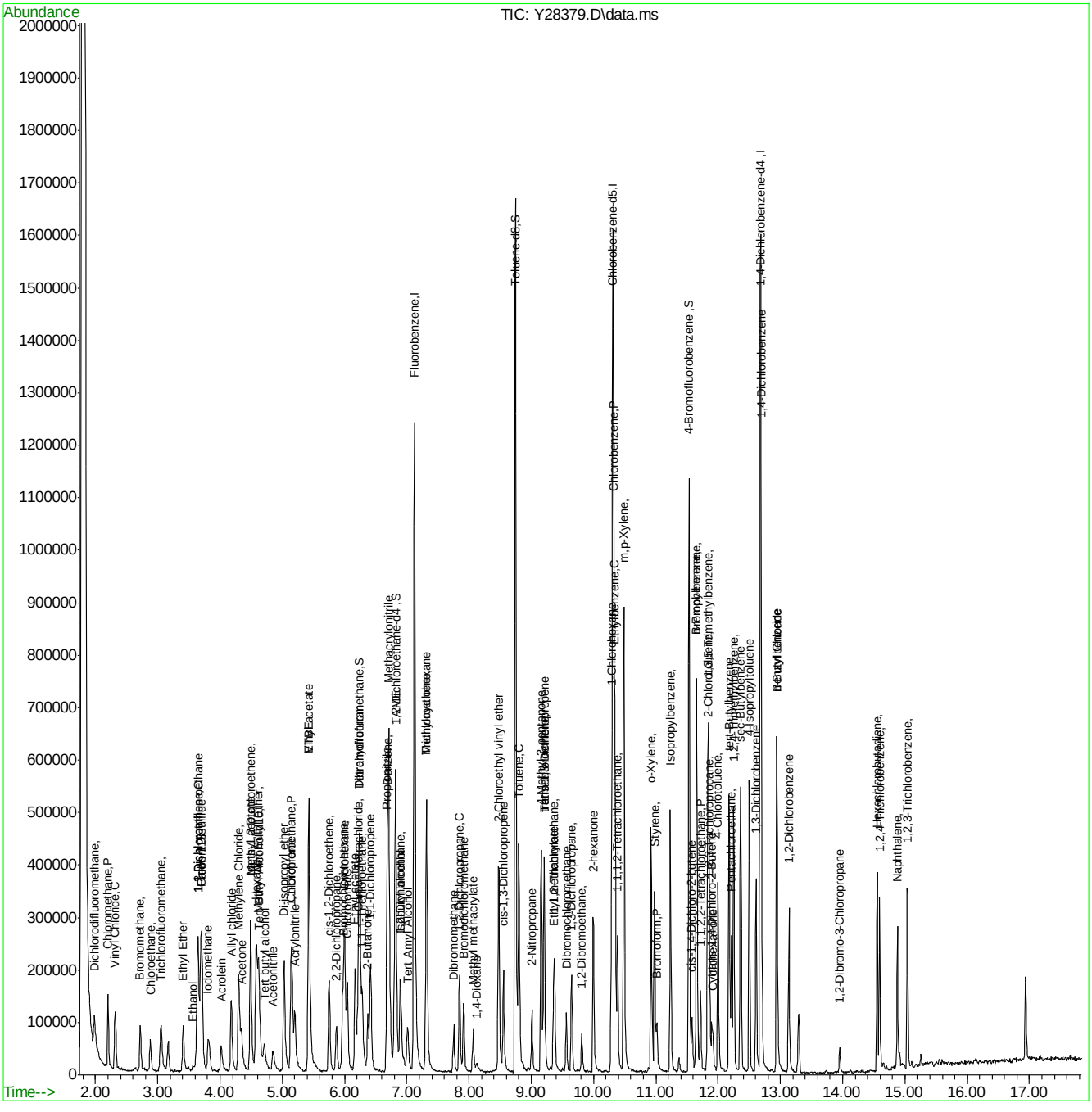
7

SGS ACCUTEST FA34224

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



SGS ACCUTEST FA34224

Manual Integration Approval Summary

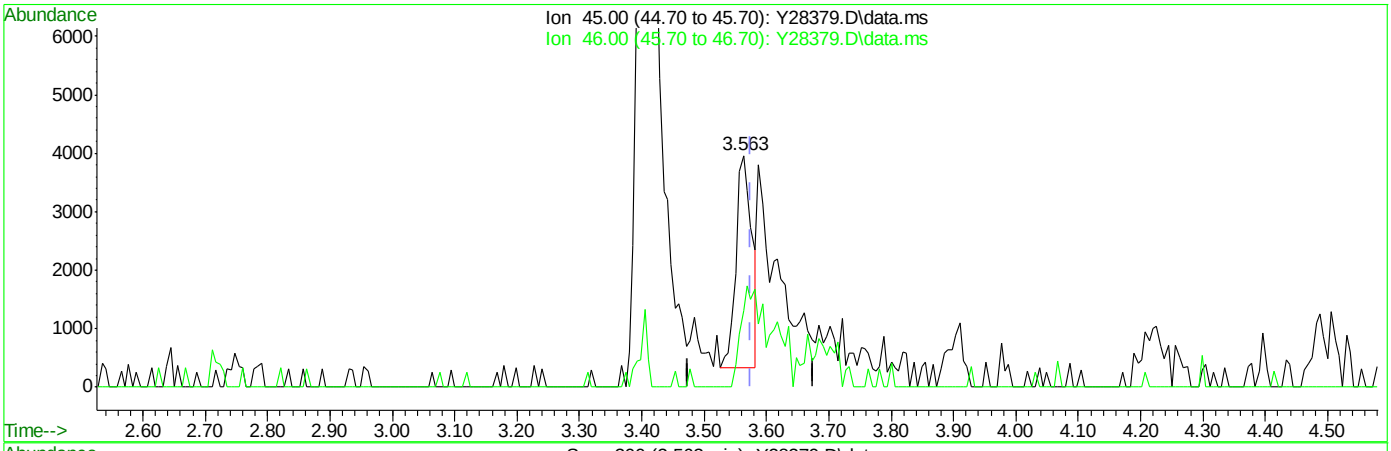
Sample Number:	VY1149-IC1149	**Method:**	SW846 8260B
Lab FileID:	Y28379.D	**Analyst approved:**	05/07/16 06:10 Eric Parrish
Injection Time:	05/06/16 12:25	**Supervisor approved:**	05/09/16 11:54 Melissa Mangual

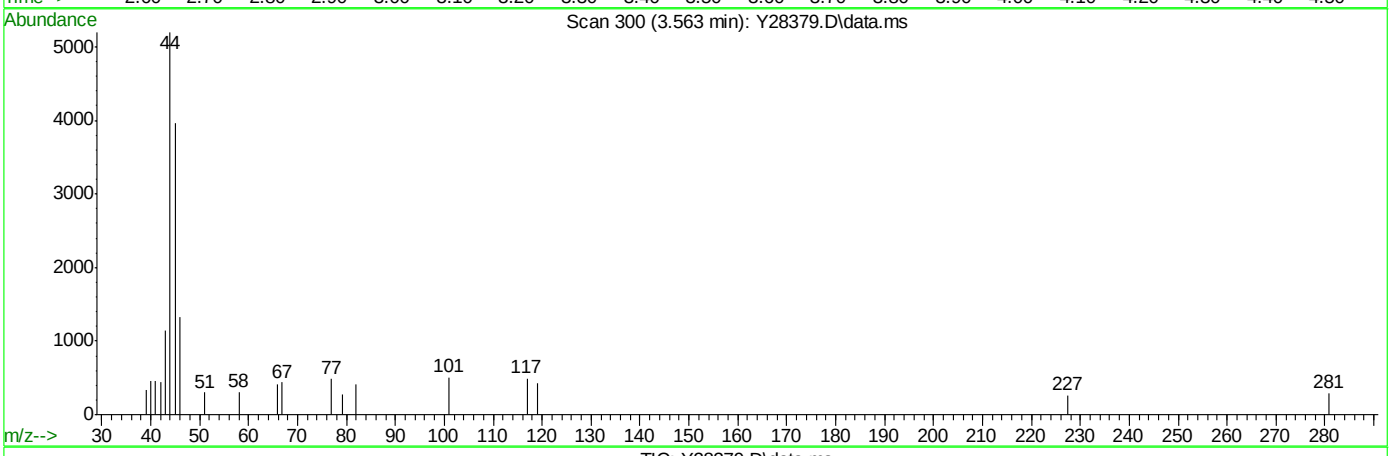
Parameter	CAS	Sig#	R.T. (min.)	Reason
Ethyl Alcohol	64-17-5		3.56	Split peak

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

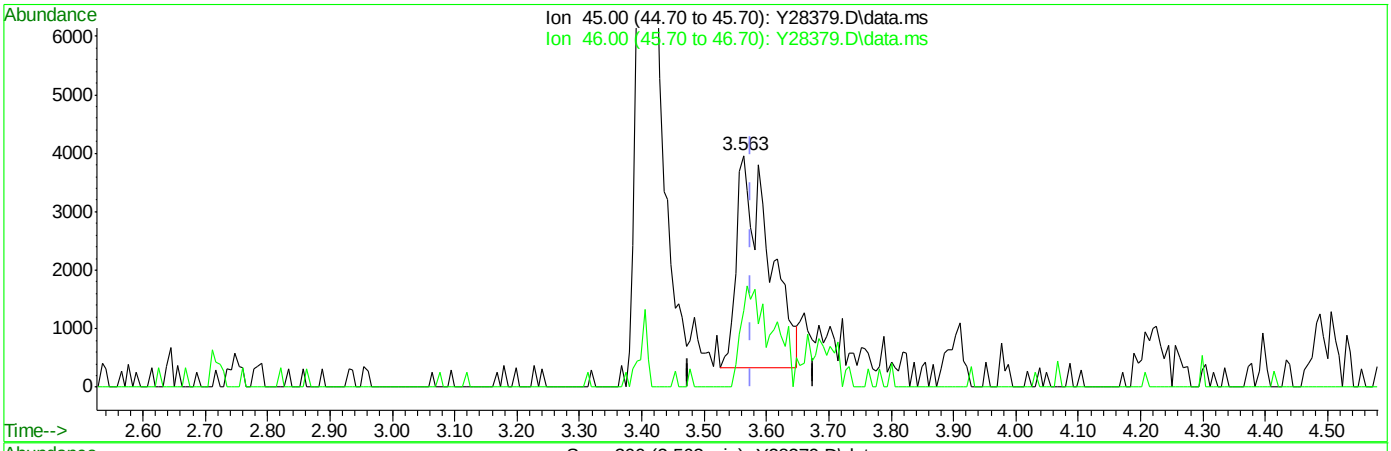
Ion	Exp%	Act%
45.00	100	100
46.00	41.20	36.35
0.00	0.00	0.00
0.00	0.00	0.00

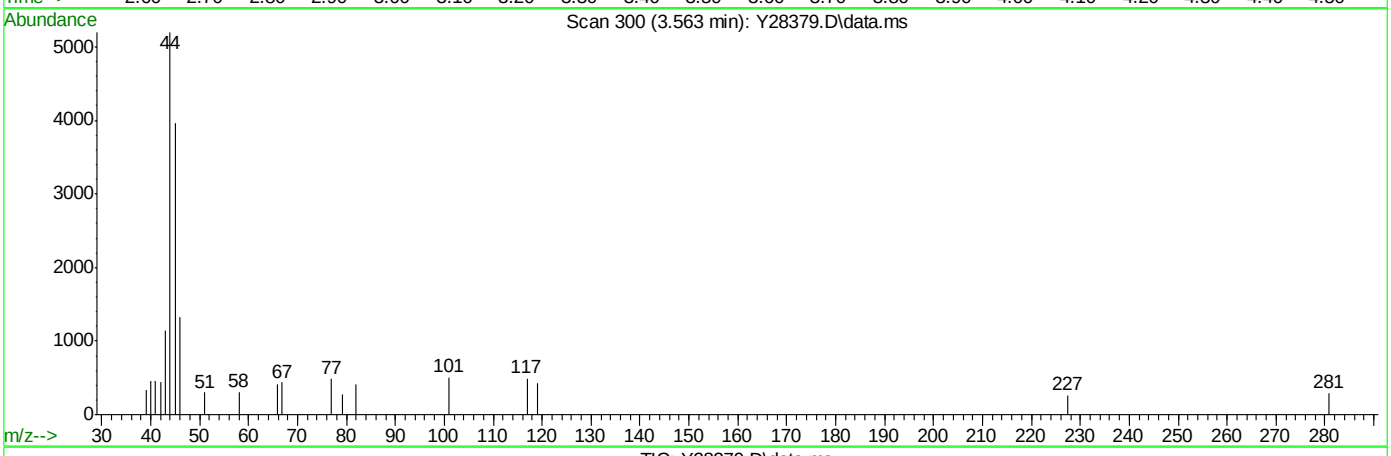
SGS ACCUTEST FA34224

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

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

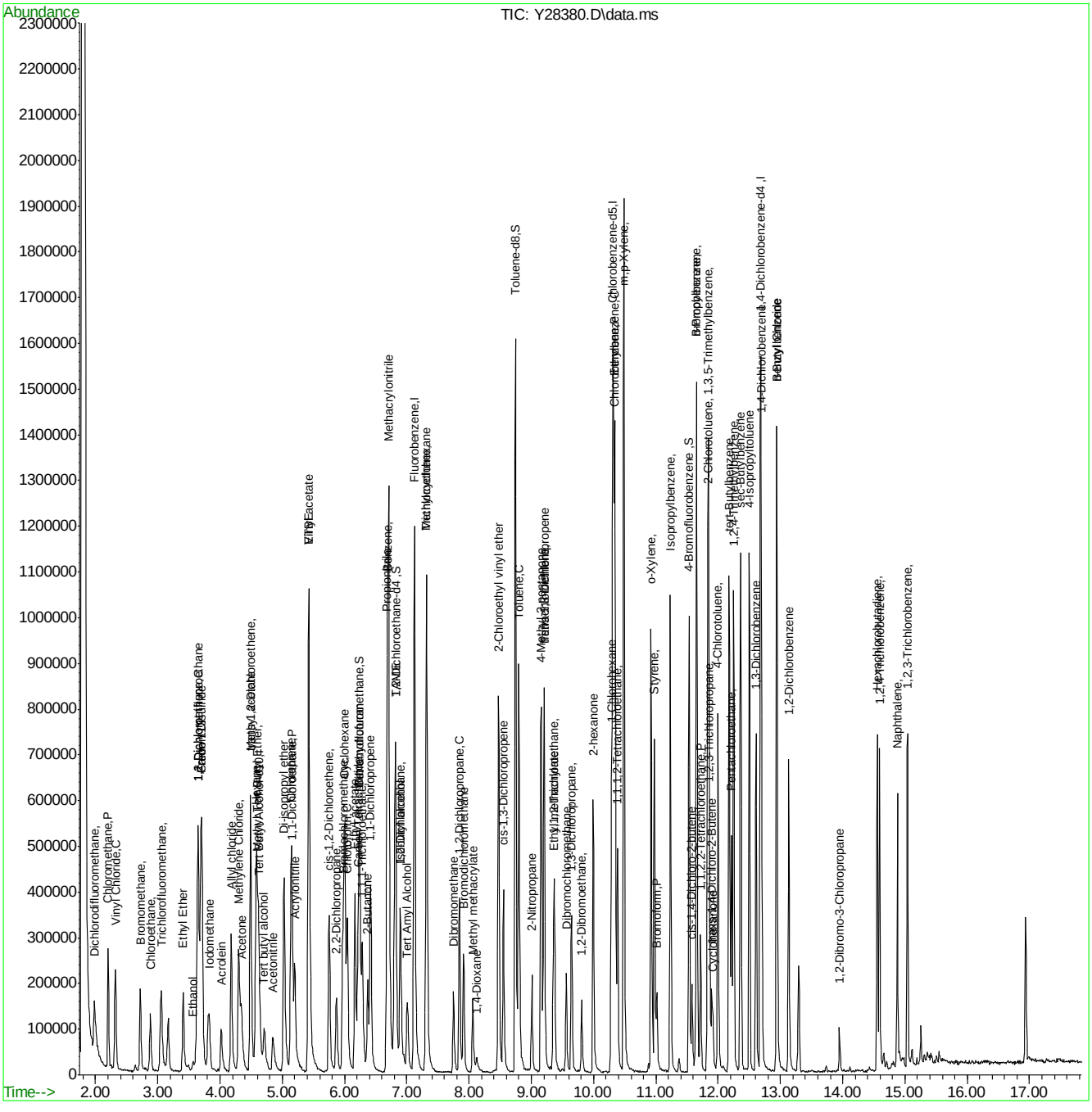
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
92) 4-Isopropyltoluene	12.499	119	528785	23.23	ug/Kg	100
93) 1,3-Dichlorobenzene	12.608	146	245281	21.26	ug/Kg	97
94) 1,4-Dichlorobenzene	12.693	146	251387	20.51	ug/Kg	96
95) n-Butylbenzene	12.943	92	317798	25.48	ug/Kg	90
96) Benzyl Chloride	12.937	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

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


Abundance
TIC: Y28380.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
Methacrylonitrile
Ethyl Acetate
Toluene-d8,S
Toluene,C
2-Chloroethyl vinyl ether
cis-1,3-Dichloropropene
2-Nitropropane
2-hexanone
Styrene,
Bromoform,P
o-Xylene,
Isopropylbenzene,
4-Bromofluorobenzene ,S
4-Chlorotoluene,
1,2-Dichlorobenzene
1,2-Dibromo-3-Chloropropane
Naphthalene
1,2,3-Trichlorobenzene,
1,3-Dichlorobenzene
1,4-Dichlorobenzene-d4 ,I
1,3,5-Trimethylbenzene,
4-Isopropyltoluene
sec-Butylbenzene
n-Butylbenzene
1,2,4-Trichlorobenzene
Hexachlorobutadiene
Benzyl chloride
1,1,1,2-Tetrachloroethane,P
1,2-Dibromoethane,
1,2-Dichloroethane,
1,1-Dichloroethane
Methyl methacrylate
1,4-Dioxane
Tert Amyl Alcohol
Tert butyl alcohol
Methyl Acetate
Methyl Tert Butyl Ether,
Di-isopropyl ether
Acrylonitrile
2-Butanone
Methyl Ethyl Ketone
Cyclohexane
Carbon tetrachloride
Tetrahydrofuran
Bromochloromethane
Chloroform,P
Tetrachloroethene,
Chlorobenzene-d5,I
m,p-Xylene,
Ethylbenzene
Bromobenzene
Propylbenzene
Cyclohexanone
Methacrylonitrile
Fluorobenzene,I
Tetrachloroethane-d4 ,S
1,4-Dichlorobenzene
Tert Amyl Alcohol
Dibromomethane
Bromodichloromethane
1,2-Dichloropropane,C
Methyl Methacrylate
Ethyl methacrylate
Dibromochloromethane,
1,2-Dichloroethane
1,1,2-Trichloroethane
Ethyl methacrylate
Methyl Methacrylate
Methyl Methacrylate
Methyl

Manual Integration Approval Summary

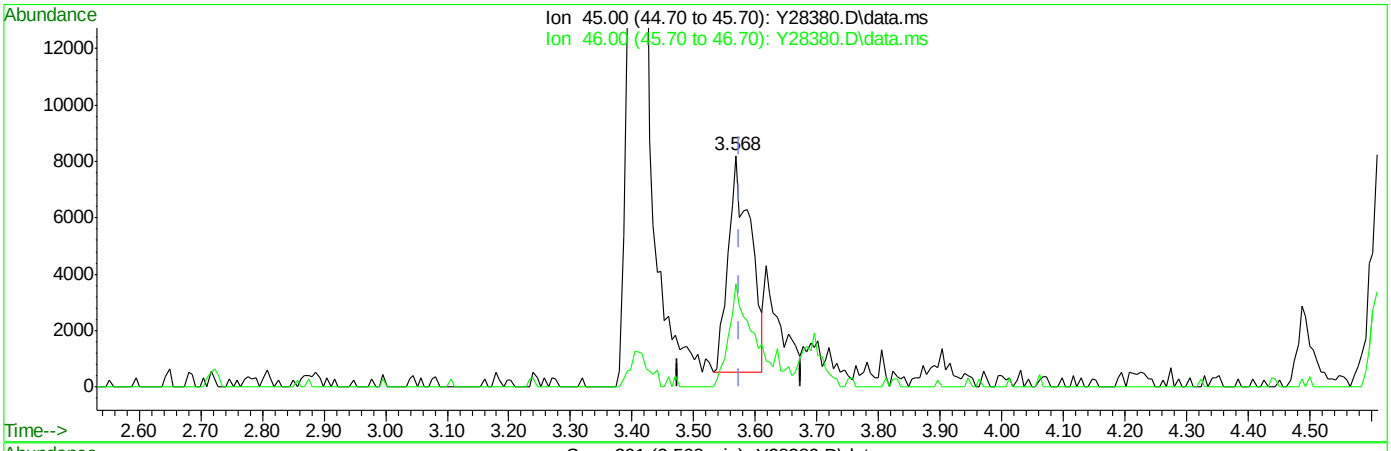
Sample Number:	VY1149-IC1149	**Method:**	SW846 8260B
Lab FileID:	Y28380.D	**Analyst approved:**	05/07/16 06:10 Eric Parrish
Injection Time:	05/06/16 12:52	**Supervisor approved:**	05/09/16 11:54 Melissa Mangual

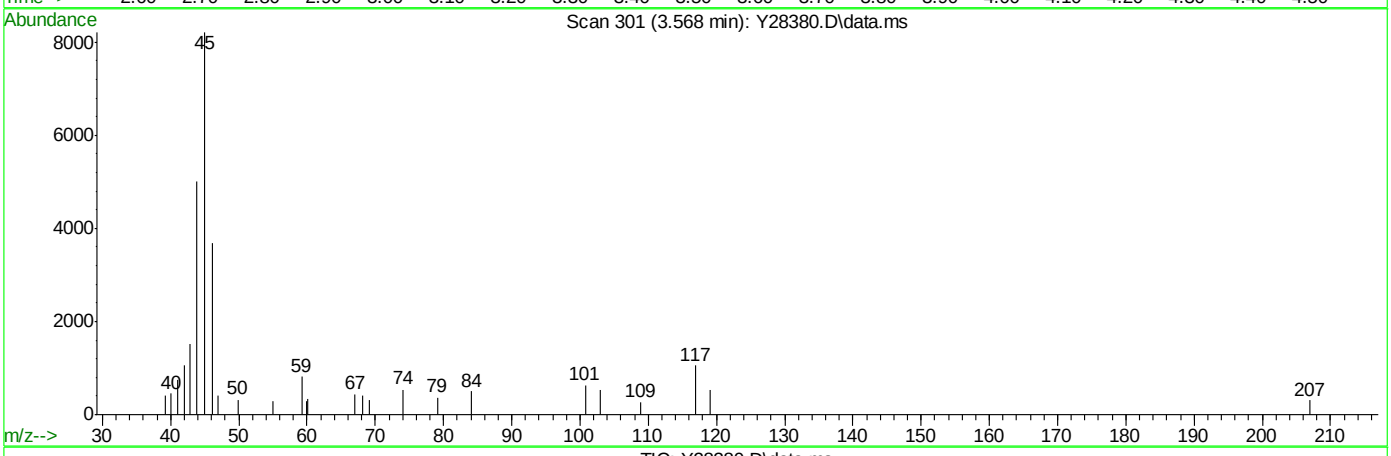
Parameter	CAS	Sig#	R.T. (min.)	Reason
Ethyl Alcohol	64-17-5		3.57	Split peak

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

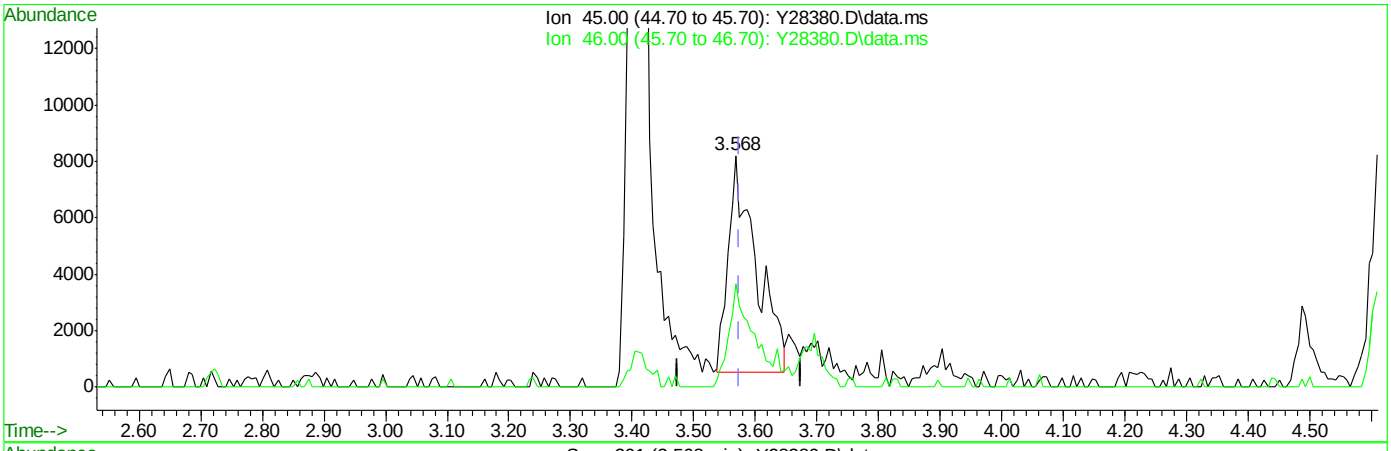
Ion	Exp%	Act%
45.00	100	100
46.00	41.20	47.88
0.00	0.00	0.00
0.00	0.00	0.00

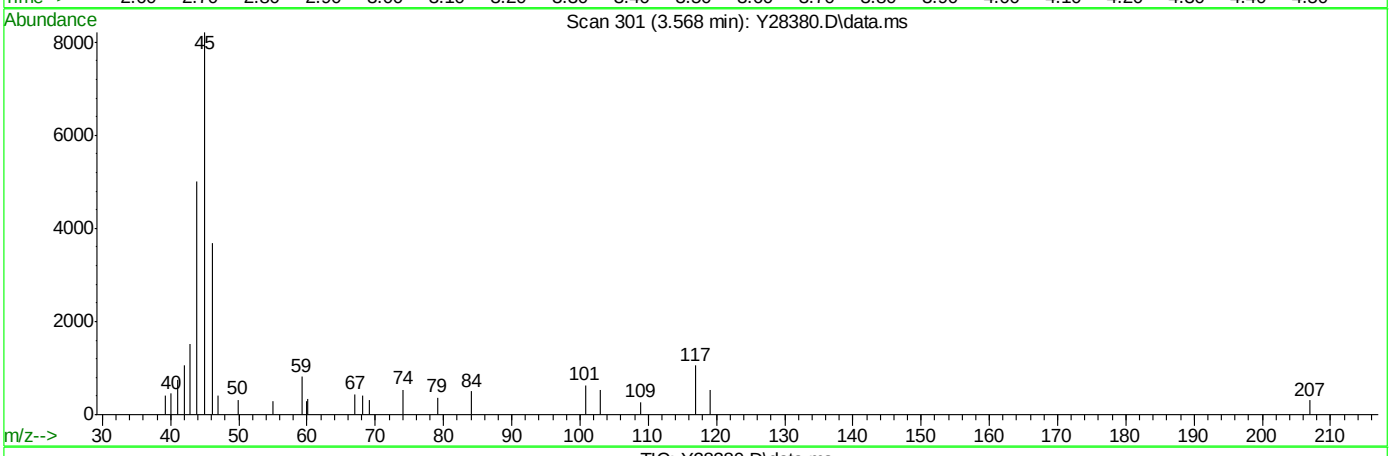
SGS ACCUTEST FA34224

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 FA34224

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

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

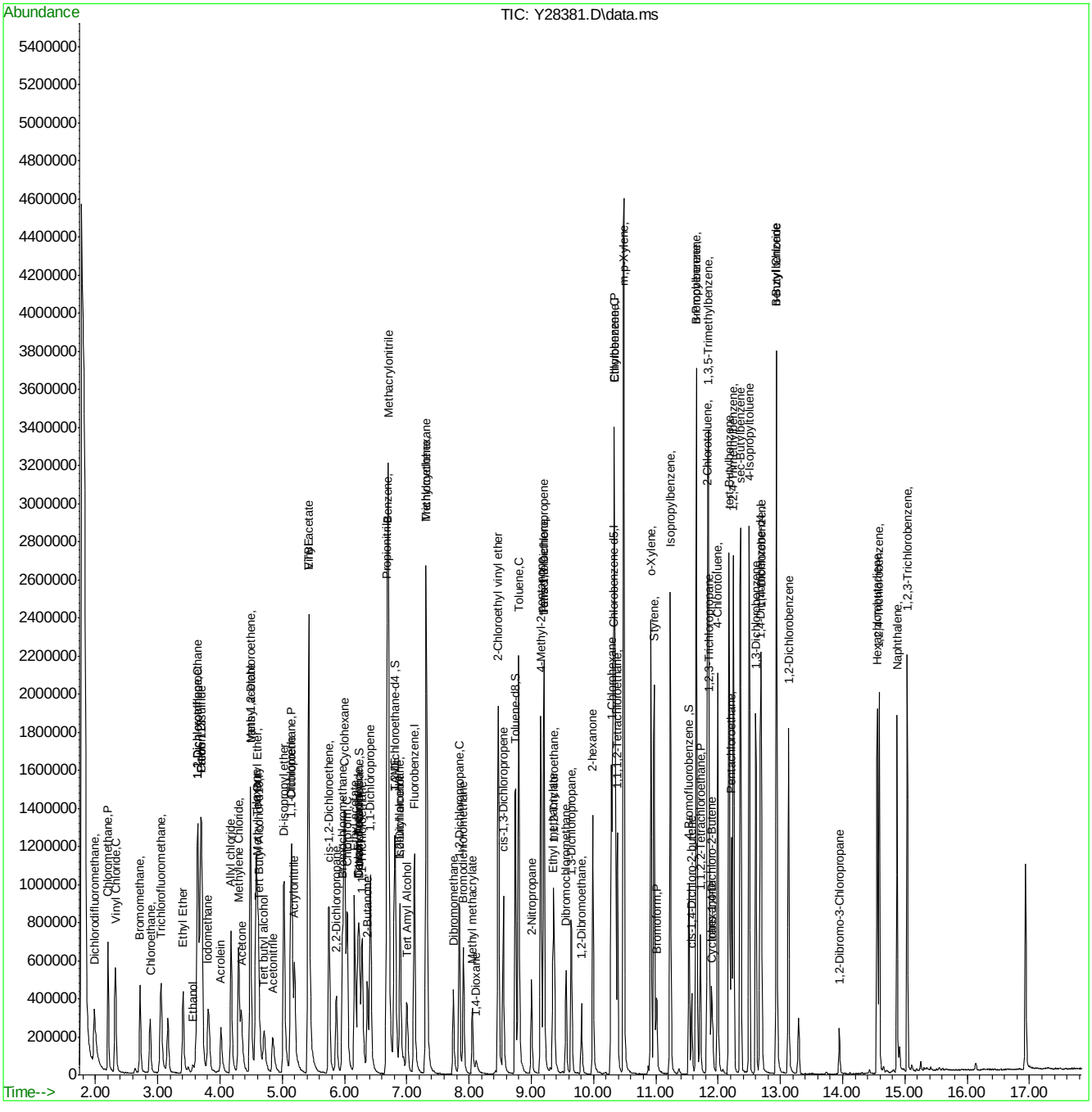
7

SGS ACCUTEST FA34224

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 FA34224

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

SGS ACCUTEST FA34224

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

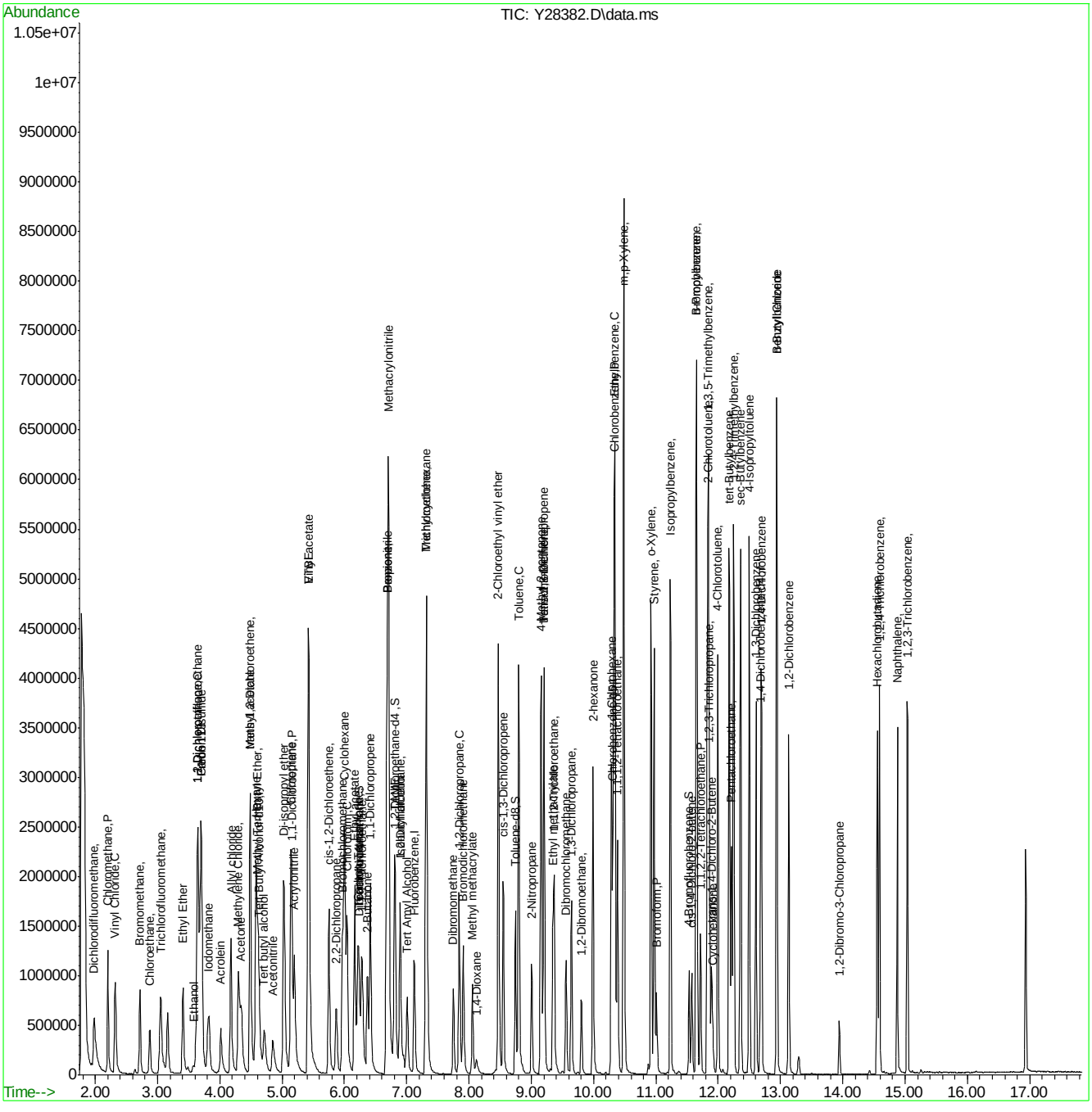
7.6.15

7

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



SGS ACCUTEST FA34224

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

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

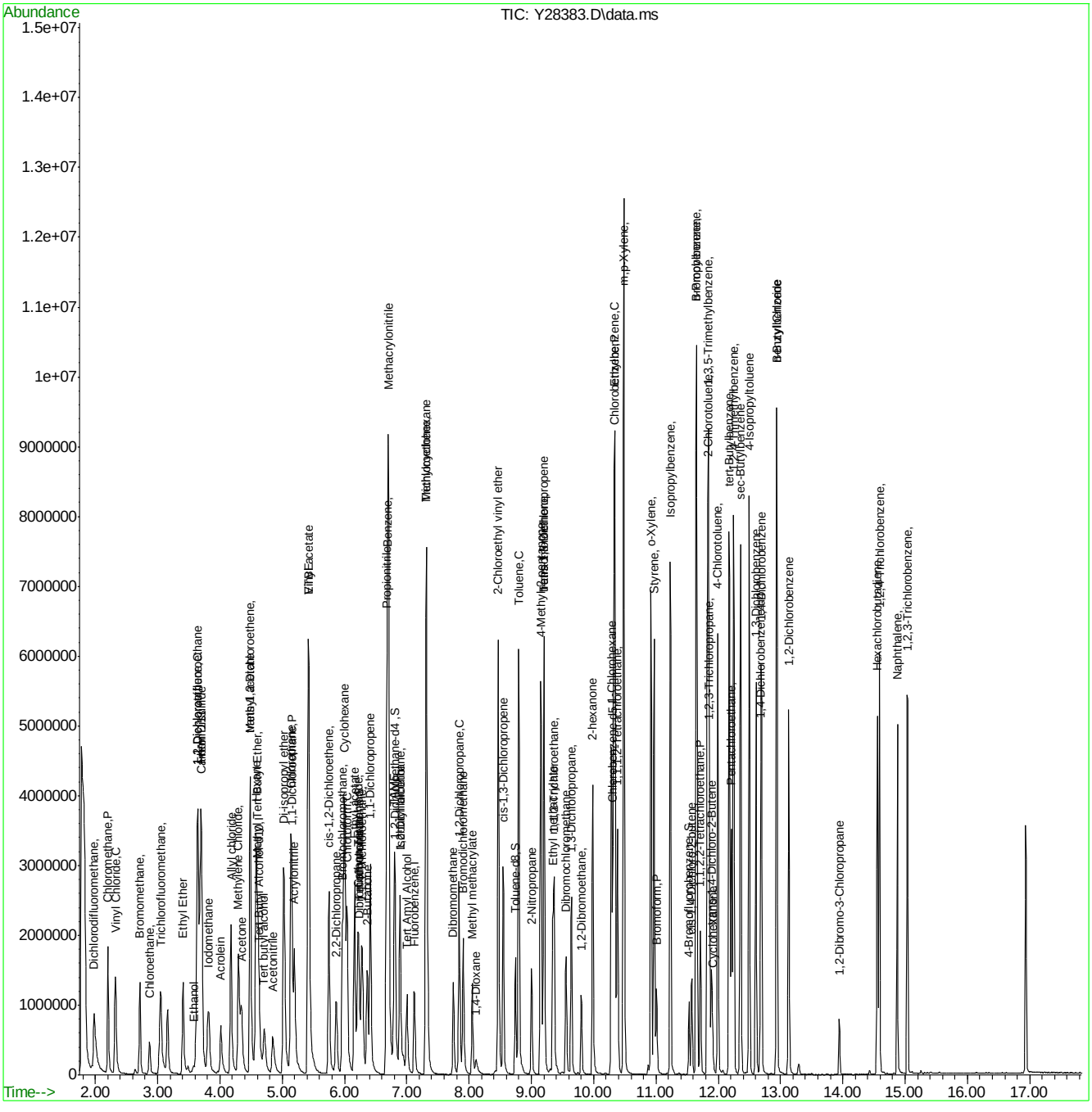
7.6.16

7

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



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

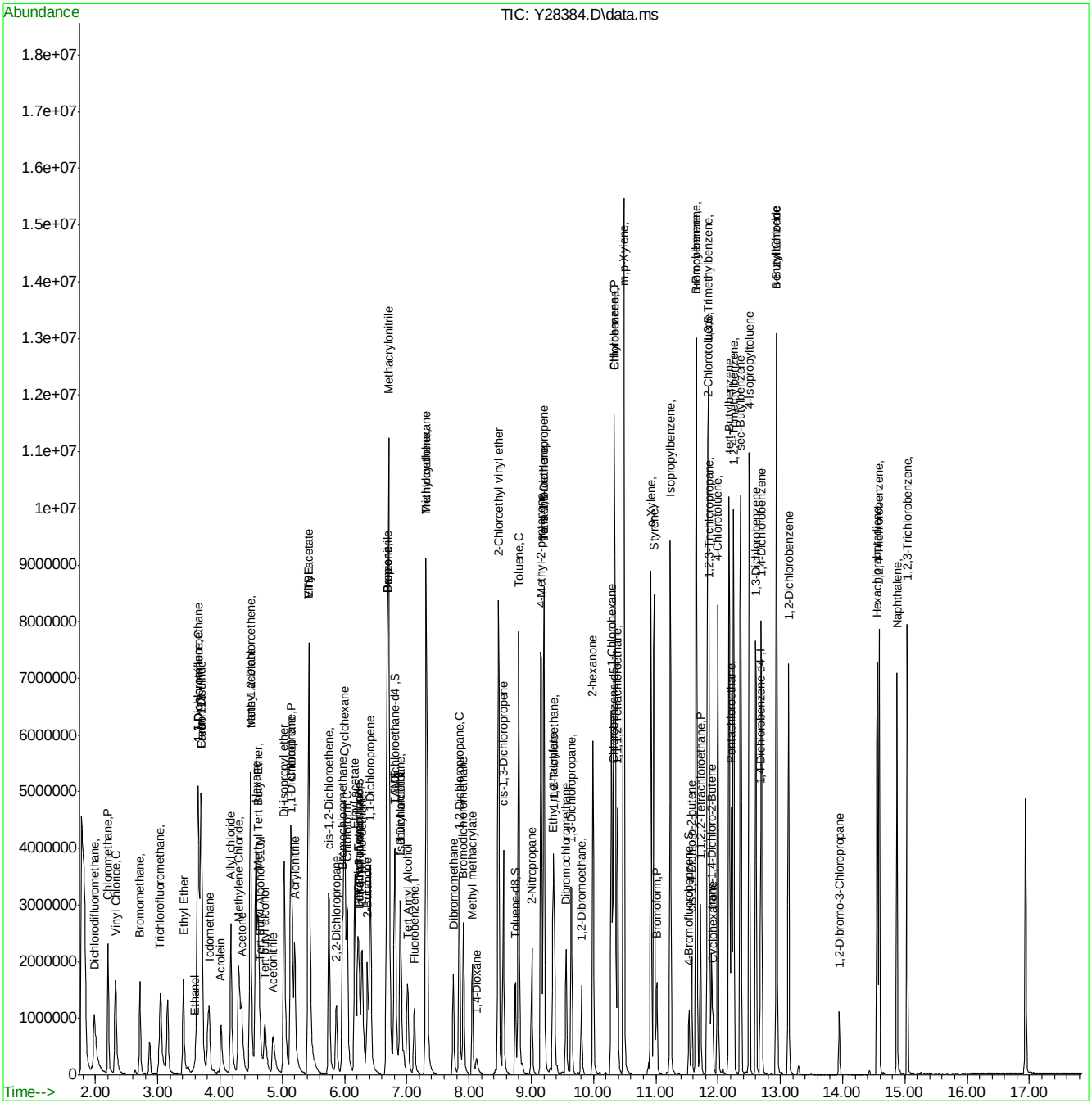
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
92) 4-Isopropyltoluene	12.500	119	4736757	170.45	ug/Kg	84
93) 1,3-Dichlorobenzene	12.604	146	2421740	181.26	ug/Kg	92
94) 1,4-Dichlorobenzene	12.695	146	2431415	177.53	ug/Kg	94
95) n-Butylbenzene	12.938	92	2953104	183.11	ug/Kg#	64
96) Benzyl Chloride	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

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



SGS ACCUTEST FA34224

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

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

SGS ACCUTEST FA34224

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

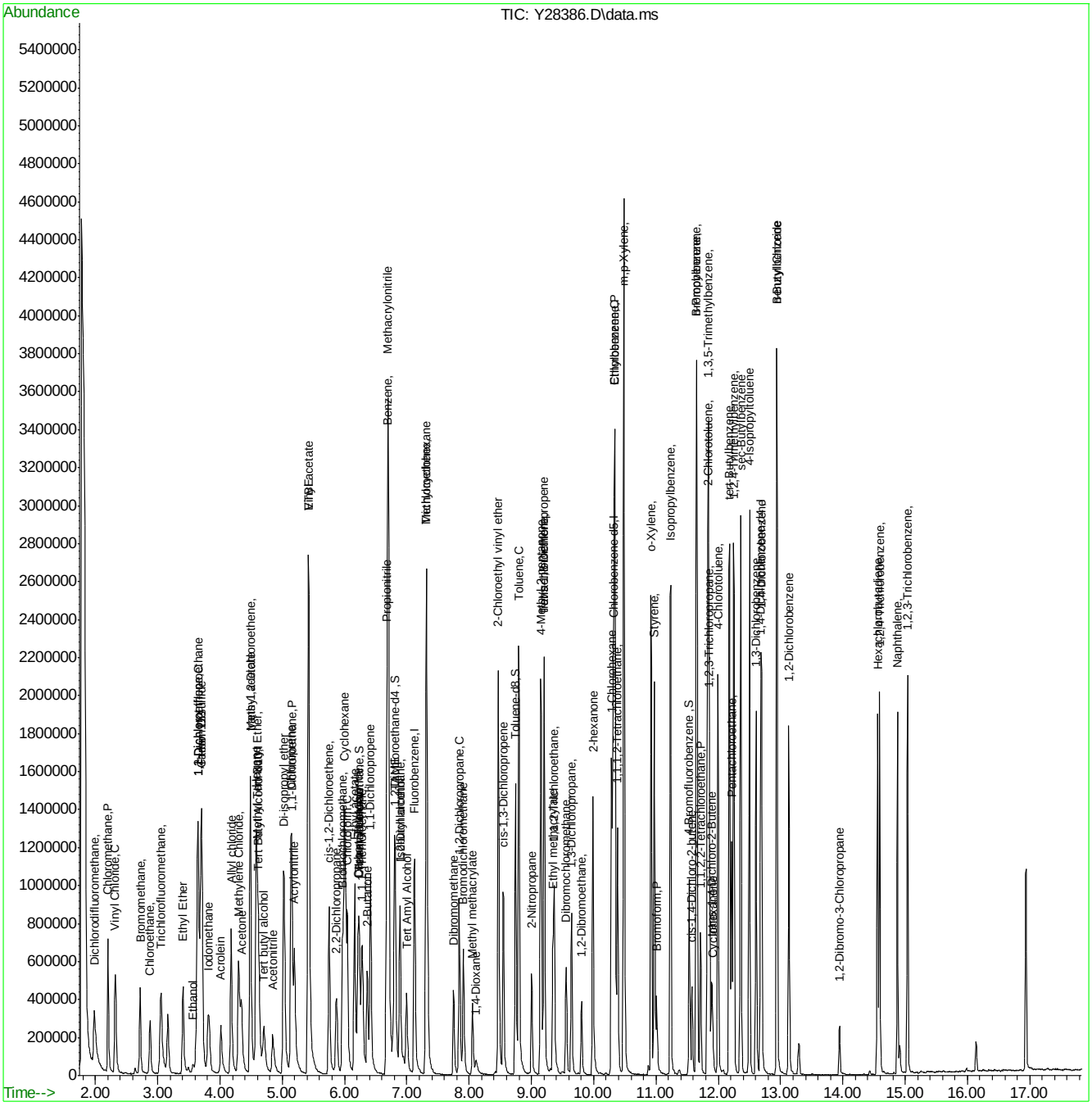
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST FA34224

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 FA34224

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\052616\
Data File : Y28863.D
Acq On : 26 May 2016 9:07 am
Operator : ericp
Sample : CC1149-4 Inst : MSVOA14
Misc : MS33984,VY1166,5.00,,,5,,
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 26 09:31:35 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	7.119	96	1192375	50.00	ug/Kg	0.00
54) Chlorobenzene-d5	10.307	117	804702	50.00	ug/Kg	0.00
76) 1,4-Dichlorobenzene-d4	12.679	152	369242	50.00	ug/Kg	0.00
103) Tert Butyl Alcohol-d10	4.625	65	148993	250.00	ug/Kg	-0.02
System Monitoring Compounds						
35) Dibromofluoromethane	6.237	113	278161	50.67	ug/Kg	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 101.34%			
44) 1,2-Dichloroethane-d4	6.815	65	298445	51.24	ug/Kg	0.00
Spiked Amount 50.000	Range 72 - 135		Recovery = 102.48%			
55) Toluene-d8	8.743	98	1103591	48.67	ug/Kg	0.00
Spiked Amount 50.000	Range 75 - 126		Recovery = 97.34%			
77) 4-Bromofluorobenzene	11.529	174	244049	48.51	ug/Kg	0.00
Spiked Amount 50.000	Range 71 - 133		Recovery = 97.02%			

Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.984	85	561562	45.37	ug/Kg	98
3) Chloromethane	2.203	50	633944	50.98	ug/Kg	95
4) Vinyl Chloride	2.319	62	664550	53.18	ug/Kg	98
5) Bromomethane	2.721	94	275062	47.09	ug/Kg	92
6) Chloroethane	2.879	64	280923	45.84	ug/Kg	96
7) Trichlorofluoromethane	3.049	101	580696	49.29	ug/Kg	94
8) Ethyl Ether	3.408	59	322976	53.97	ug/Kg	94
9) 1,2-Dichlorotrifluoroe...	3.645	67	519600	50.62	ug/Kg	97
10) 1,1-Dichloroethene	3.651	61	705025	51.51	ug/Kg	97
11) Freon 113	3.712	101	444312	47.63	ug/Kg	98
12) Carbon Disulfide	3.694	76	1426216	49.86	ug/Kg	96
13) Iodomethane	3.828	142	552776	44.36	ug/Kg	94
14) Allyl chloride	4.174	41	609392	54.30	ug/Kg	97
15) Methylene Chloride	4.296	49	546259	54.21	ug/Kg	99
16) Acetone	4.345	43	556730	275.86	ug/Kg	96
17) Methyl acetate	4.485	43	1093938	288.41	ug/Kg	98
18) trans-1,2-Dichloroethene	4.485	61	554089	52.46	ug/Kg	98
19) Hexane	4.582	56	399015	49.32	ug/Kg	88
20) Methyl Tert Butyl Ether	4.612	73	1043971	52.04	ug/Kg#	28
21) Acetonitrile	4.844	41	365376	557.44	ug/Kg	95
22) Di-isopropyl ether	5.026	45	1253847	55.43	ug/Kg	92
23) Chloroprene	5.136	53	672387	52.57	ug/Kg	97
24) 1,1-Dichloroethane	5.160	63	795372	56.18	ug/Kg	99
25) Acrylonitrile	5.197	53	616110	281.28	ug/Kg	97
26) ETBE	5.422	59	1256464	56.20	ug/Kg	95
27) Vinyl acetate	5.416	43	3243174	295.85	ug/Kg	93
28) cis-1,2-Dichloroethene	5.750	96	454256	51.09	ug/Kg	97
29) 2,2-Dichloropropane	5.866	77	334989	53.96	ug/Kg	97
30) Bromochloromethane	5.969	128	191498	50.96	ug/Kg#	83
31) Cyclohexane	6.000	84	746835	50.40	ug/Kg	97
32) Chloroform	6.042	83	742767	52.32	ug/Kg	98
33) Ethyl acetate	6.158	43	1328303	277.91	ug/Kg	96
34) Tetrahydrofuran	6.231	42	77832	44.69	ug/Kg	96
36) Carbon Tetrachloride	6.219	117	507503	51.64	ug/Kg	97

SGS ACCUTEST FA34224

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\052616\
Data File : Y28863.D
Acq On : 26 May 2016 9:07 am
Operator : ericp
Sample : CC1149-4 Inst : MSVOA14
Misc : MS33984,VY1166,5.00,,,5,,
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 26 09:31:35 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	6.279	97	567467	52.05 ug/Kg	96
38) 2-Butanone	6.365	43	754466	274.98 ug/Kg	93
39) 1,1-Dichloropropene	6.413	75	589454	51.50 ug/Kg	98
40) Propionitrile	6.669	54	427549	519.80 ug/Kg	85
41) Methacrylonitrile	6.699	41	1585209	547.51 ug/Kg	90
42) Benzene	6.681	78	1703621	53.46 ug/Kg	97
43) TAME	6.803	73	1102267	52.51 ug/Kg	95
45) 1,2-Dichloroethane	6.888	62	459331	52.06 ug/Kg	99
46) Trichloroethene	7.307	95	412689	50.14 ug/Kg	97
47) Methylcyclohexane	7.314	83	803508	49.38 ug/Kg	98
48) Dibromomethane	7.745	93	204447	52.43 ug/Kg	94
49) 1,2-Dichloropropane	7.843	63	415210	52.53 ug/Kg	94
50) Bromodichloromethane	7.910	83	482343	51.38 ug/Kg	98
51) Methyl methacrylate	8.050	41	189038	47.84 ug/Kg	93
52) 2-Chloroethyl vinyl ether	8.469	63	940053	260.84 ug/Kg	97
53) cis-1,3-Dichloropropene	8.549	75	622115	53.02 ug/Kg	99
56) Toluene	8.798	91	1658211	50.85 ug/Kg	94
57) 2-Nitropropane	9.005	41	348810	270.05 ug/Kg	90
58) 4-Methyl-2-pentanone	9.151	43	1378647	274.10 ug/Kg	93
59) trans-1,3-Dichloropropene	9.199	75	475988	52.52 ug/Kg	99
60) Tetrachloroethene	9.206	166	362604	47.75 ug/Kg	96
61) Ethyl methacrylate	9.345	69	353797	50.00 ug/Kg	94
62) 1,1,2-Trichloroethane	9.364	83	250417	50.25 ug/Kg	90
63) Dibromochloromethane	9.558	129	300034	50.20 ug/Kg	98
64) 1,3-Dichloropropane	9.644	76	538740	51.37 ug/Kg	97
65) 1,2-Dibromoethane	9.802	107	265245	48.71 ug/Kg	100
66) 2-hexanone	9.984	43	971380	273.15 ug/Kg	94
67) 1-Chlorohexane	10.282	91	508880	48.29 ug/Kg	98
68) Ethylbenzene	10.337	91	1749413	51.60 ug/Kg	97
69) Chlorobenzene	10.325	112	1001267	50.17 ug/Kg	97
70) 1,1,1,2-Tetrachloroethane	10.380	131	332241	50.25 ug/Kg	97
71) m,p-Xylene	10.483	91	2563474	105.26 ug/Kg	93
72) o-Xylene	10.921	91	1326132	50.69 ug/Kg	98
73) Styrene	10.970	104	987139	51.69 ug/Kg	99
74) Bromoform	11.012	173	153035	48.11 ug/Kg	97
75) Isopropylbenzene	11.231	105	1614677	50.49 ug/Kg	95
78) cis-1,4-Dichloro-2-butene	11.578	53	93262	49.21 ug/Kg	94
79) n-Propylbenzene	11.651	91	1892201	52.64 ug/Kg	96
80) Bromobenzene	11.645	156	355768	50.42 ug/Kg	100
81) 1,1,2,2-Tetrachloroethane	11.712	83	373565	51.73 ug/Kg	93
82) 1,3,5-Trimethylbenzene	11.840	105	1467128	52.83 ug/Kg	97
83) 2-Chlorotoluene	11.827	91	1330226	52.76 ug/Kg	99
84) trans-1,4-Dichloro-2-B...	11.888	53	96106	50.99 ug/Kg#	82
85) 1,2,3-Trichloropropane	11.858	110	99710	51.63 ug/Kg	97
86) Cyclohexanone	11.913	55	96939	282.42 ug/Kg	91
87) 4-Chlorotoluene	11.992	91	1201826	52.50 ug/Kg	100
88) tert-Butylbenzene	12.174	91	886001	52.88 ug/Kg	97
89) 1,2,4-Trimethylbenzene	12.247	105	1414671	53.10 ug/Kg	98
90) Pentachloroethane	12.211	167	205223	50.61 ug/Kg	88
91) sec-Butylbenzene	12.357	105	1854718	52.24 ug/Kg	99

SGS ACCUTEST FA34224

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\052616\
Data File : Y28863.D
Acq On : 26 May 2016 9:07 am
Operator : ericp
Sample : CC1149-4 Inst : MSVOA14
Misc : MS33984,VY1166,5.00,,,5,,
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 26 09:31:35 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	12.497	119	1495860	51.59	ug/Kg	99
93) 1,3-Dichlorobenzene	12.606	146	694978	49.47	ug/Kg	99
94) 1,4-Dichlorobenzene	12.691	146	694483	48.35	ug/Kg	96
95) n-Butylbenzene	12.935	92	868208	51.13	ug/Kg	93
96) Benzyl Chloride	12.935	126	140107	52.23	ug/Kg#	71
97) 1,2-Dichlorobenzene	13.129	146	661416	49.64	ug/Kg	95
98) 1,2-Dibromo-3-Chloropr...	13.945	75	69804	53.34	ug/Kg	84
99) Hexachlorobutadiene	14.553	225	246394	47.66	ug/Kg	95
100) 1,2,4-Trichlorobenzene	14.589	180	448590	48.73	ug/Kg	97
101) Naphthalene	14.875	128	1039284	51.23	ug/Kg	99
102) 1,2,3-Trichlorobenzene	15.033	180	439455	49.62	ug/Kg	95
104) Ethanol	3.572	45	70788	872.82	ug/Kg	98
105) Acrolein	4.016	56	303488	218.39	ug/Kg	100
106) Tert butyl alcohol	4.710	59	373027	437.31	ug/Kg	97
107) Isobutyl alcohol	6.888	42	166003	877.08	ug/Kg	95
108) Tert Amyl Alcohol	6.997	59	306968	450.88	ug/Kg	90
109) 1,4-Dioxane	8.117	88	71105	850.31	ug/Kg	88

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

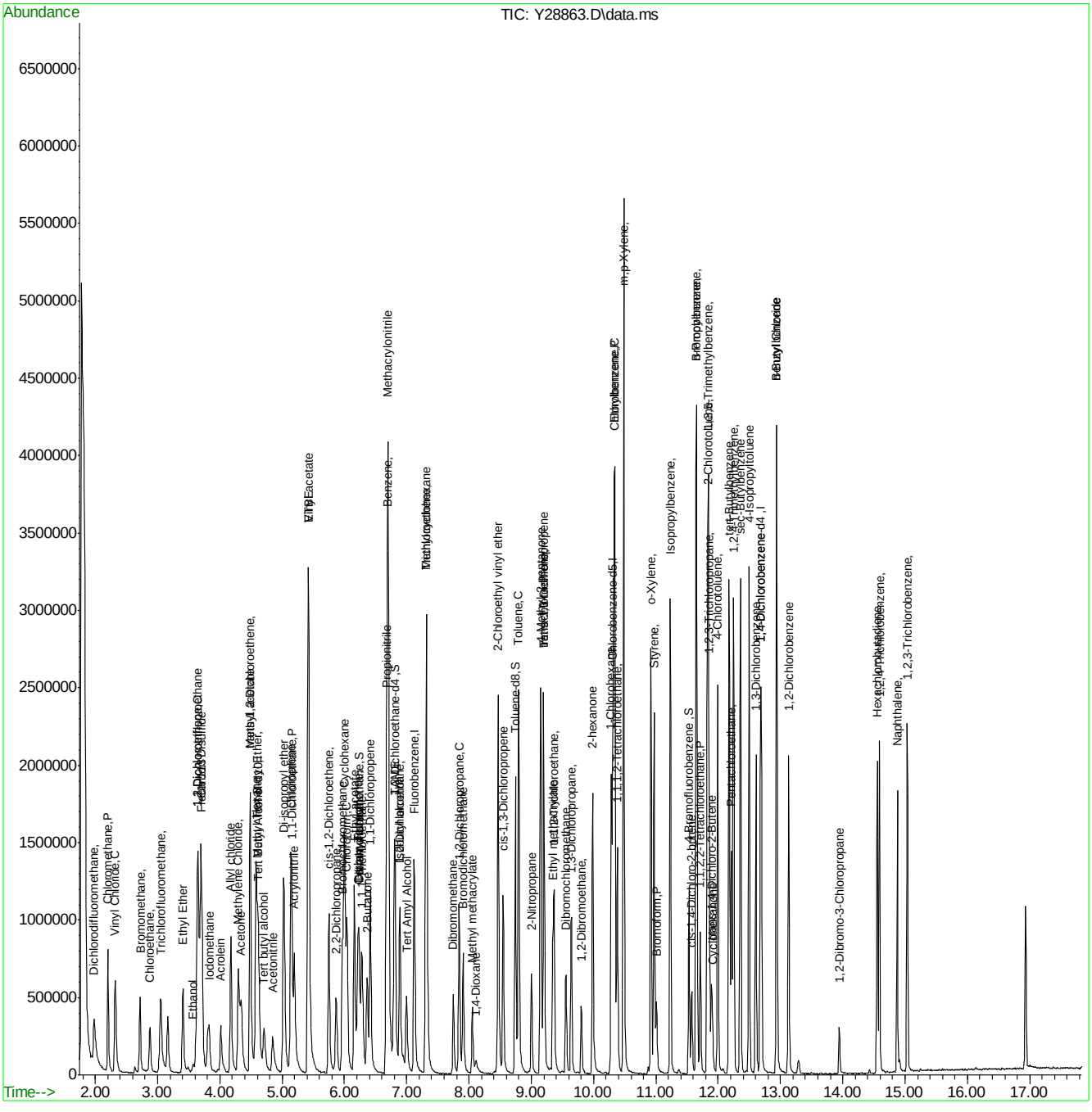
7.6.19

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\052616\
Data File : Y28863.D
Acq On : 26 May 2016 9:07 am
Operator : ericp
Sample : CC1149-4 Inst : MSVOA14
Misc : MS33984,VY1166,5.00,,,5,,
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 26 09:31:35 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 FA34224

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\052616\
Data File : Y28888.D
Acq On : 26 May 2016 8:07 pm
Operator : ericp
Sample : ECC1149-4 Inst : MSVOA14
Misc : MS34003,VY1167,5.00,,,5,,
ALS Vial : 31 Sample Multiplier: 1

Quant Time: May 27 07:06:57 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	1153845	50.00	ug/Kg	0.00
54) Chlorobenzene-d5	10.310	117	775338	50.00	ug/Kg	0.00
76) 1,4-Dichlorobenzene-d4	12.676	152	344918	50.00	ug/Kg	0.00
103) Tert Butyl Alcohol-d10	4.634	65	154512	250.00	ug/Kg	-0.01
System Monitoring Compounds						
35) Dibromofluoromethane	6.240	113	267934	50.44	ug/Kg	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 100.88%			
44) 1,2-Dichloroethane-d4	6.818	65	293625	52.09	ug/Kg	0.00
Spiked Amount 50.000	Range 72 - 135		Recovery = 104.18%			
55) Toluene-d8	8.740	98	1081824	49.52	ug/Kg	0.00
Spiked Amount 50.000	Range 75 - 126		Recovery = 99.04%			
77) 4-Bromofluorobenzene	11.533	174	238776	50.81	ug/Kg	0.00
Spiked Amount 50.000	Range 71 - 133		Recovery = 101.62%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.982	85	554388	46.28	ug/Kg	96
3) Chloromethane	2.201	50	599151	49.79	ug/Kg	95
4) Vinyl Chloride	2.322	62	639656	52.90	ug/Kg	98
5) Bromomethane	2.718	94	338807	59.94	ug/Kg	98
6) Chloroethane	2.882	64	409853	69.12	ug/Kg	96
7) Trichlorofluoromethane	3.052	101	716876	62.89	ug/Kg	99
8) Ethyl Ether	3.405	59	418330	72.24	ug/Kg	97
9) 1,2-Dichlorotrifluoroe...	3.642	67	666873	67.13	ug/Kg	94
10) 1,1-Dichloroethene	3.649	61	909566	68.68	ug/Kg	97
11) Freon 113	3.709	101	519911	57.60	ug/Kg	95
12) Carbon Disulfide	3.697	76	1728078	62.43	ug/Kg	97
13) Iodomethane	3.825	142	632778	52.48	ug/Kg	92
14) Allyl chloride	4.178	41	908209	83.63	ug/Kg	98
15) Methylene Chloride	4.293	49	752476	77.94	ug/Kg	95
16) Acetone	4.348	43	685219	350.87	ug/Kg	98
17) Methyl acetate	4.488	43	1503534	409.63	ug/Kg	98
18) trans-1,2-Dichloroethene	4.488	61	795582	77.84	ug/Kg	92
19) Hexane	4.579	56	566048	72.30	ug/Kg	92
20) Methyl Tert Butyl Ether	4.610	73	1280091	65.95	ug/Kg#	34
21) Acetonitrile	4.847	41	454312	716.27	ug/Kg	98
22) Di-isopropyl ether	5.023	45	1720818	78.62	ug/Kg	92
23) Chloroprene	5.139	53	791198	63.92	ug/Kg	97
24) 1,1-Dichloroethane	5.157	63	900866	65.76	ug/Kg	100
25) Acrylonitrile	5.194	53	662540	312.58	ug/Kg	92
26) ETBE	5.431	59	1398683	64.65	ug/Kg	93
27) Vinyl acetate	5.419	43	3463112	326.47	ug/Kg	95
28) cis-1,2-Dichloroethene	5.747	96	452717	52.61	ug/Kg	98
29) 2,2-Dichloropropane	5.869	77	320690	53.38	ug/Kg	97
30) Bromochloromethane	5.966	128	182019	50.05	ug/Kg	89
31) Cyclohexane	6.003	84	728508	50.81	ug/Kg	96
32) Chloroform	6.039	83	740672	53.92	ug/Kg	99
33) Ethyl acetate	6.161	43	1156361	250.01	ug/Kg	96
34) Tetrahydrofuran	6.240	42	77104	45.76	ug/Kg	91
36) Carbon Tetrachloride	6.216	117	483287	50.82	ug/Kg	95

SGS ACCUTEST FA34224

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\052616\
Data File : Y28888.D
Acq On : 26 May 2016 8:07 pm
Operator : ericp
Sample : ECC1149-4 Inst : MSVOA14
Misc : MS34003,VY1167,5.00,,,5,,
ALS Vial : 31 Sample Multiplier: 1

Quant Time: May 27 07:06:57 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	560532	53.13	ug/Kg	95
38) 2-Butanone	6.368	43	666787	251.14	ug/Kg	93
39) 1,1-Dichloropropene	6.417	75	577639	52.15	ug/Kg	97
40) Propionitrile	6.672	54	383516	481.84	ug/Kg	89
41) Methacrylonitrile	6.702	41	1490435	531.96	ug/Kg	92
42) Benzene	6.684	78	1666387	54.04	ug/Kg	95
43) TAME	6.800	73	1050649	51.72	ug/Kg	96
45) 1,2-Dichloroethane	6.891	62	455310	53.33	ug/Kg	96
46) Trichloroethene	7.311	95	418745	52.57	ug/Kg	99
47) Methylcyclohexane	7.317	83	792957	50.36	ug/Kg	96
48) Dibromomethane	7.743	93	187277	49.63	ug/Kg	92
49) 1,2-Dichloropropane	7.840	63	390013	50.99	ug/Kg	95
50) Bromodichloromethane	7.907	83	468976	51.63	ug/Kg	94
51) Methyl methacrylate	8.053	41	186224	48.66	ug/Kg	95
52) 2-Chloroethyl vinyl ether	8.467	63	883656	253.38	ug/Kg	98
53) cis-1,3-Dichloropropene	8.546	75	605466	53.33	ug/Kg	96
56) Toluene	8.795	91	1636173	52.08	ug/Kg	93
57) 2-Nitropropane	9.002	41	296452	238.20	ug/Kg	90
58) 4-Methyl-2-pentanone	9.148	43	1180963	243.69	ug/Kg	95
59) trans-1,3-Dichloropropene	9.203	75	458664	52.52	ug/Kg	98
60) Tetrachloroethene	9.203	166	387802	53.00	ug/Kg	97
61) Ethyl methacrylate	9.343	69	340139	49.89	ug/Kg	94
62) 1,1,2-Trichloroethane	9.367	83	238664	49.70	ug/Kg	94
63) Dibromochloromethane	9.556	129	289844	50.34	ug/Kg	97
64) 1,3-Dichloropropane	9.641	76	523430	51.80	ug/Kg	99
65) 1,2-Dibromoethane	9.805	107	259518	49.47	ug/Kg	98
66) 2-hexanone	9.988	43	826309	241.16	ug/Kg	93
67) 1-Chlorohexane	10.286	91	510527	50.28	ug/Kg	94
68) Ethylbenzene	10.340	91	1750666	53.59	ug/Kg	95
69) Chlorobenzene	10.328	112	1012183	52.64	ug/Kg	99
70) 1,1,1,2-Tetrachloroethane	10.383	131	322191	50.57	ug/Kg	95
71) m,p-Xylene	10.480	91	2583885	110.12	ug/Kg	96
72) o-Xylene	10.918	91	1319906	52.36	ug/Kg	98
73) Styrene	10.973	104	990271	53.82	ug/Kg	98
74) Bromoform	11.010	173	143302	46.76	ug/Kg	94
75) Isopropylbenzene	11.229	105	1618179	52.52	ug/Kg	100
78) cis-1,4-Dichloro-2-butene	11.575	53	84984	48.00	ug/Kg	93
79) n-Propylbenzene	11.654	91	1894873	56.43	ug/Kg	95
80) Bromobenzene	11.648	156	361900	54.91	ug/Kg	97
81) 1,1,2,2-Tetrachloroethane	11.715	83	345792	51.26	ug/Kg	92
82) 1,3,5-Trimethylbenzene	11.843	105	1454866	56.09	ug/Kg	93
83) 2-Chlorotoluene	11.825	91	1318377	55.98	ug/Kg	99
84) trans-1,4-Dichloro-2-B...	11.892	53	86159	48.94	ug/Kg	91
85) 1,2,3-Trichloropropane	11.861	110	90166	49.98	ug/Kg	97
86) Cyclohexanone	11.910	55	83505	260.44	ug/Kg	94
87) 4-Chlorotoluene	11.989	91	1197545	56.00	ug/Kg	100
88) tert-Butylbenzene	12.172	91	857689	54.80	ug/Kg	97
89) 1,2,4-Trimethylbenzene	12.245	105	1408534	56.60	ug/Kg	98
90) Pentachloroethane	12.214	167	185662	49.01	ug/Kg	96
91) sec-Butylbenzene	12.360	105	1841308	55.52	ug/Kg	97

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\052616\
Data File : Y28888.D
Acq On : 26 May 2016 8:07 pm
Operator : ericp
Sample : ECC1149-4 Inst : MSVOA14
Misc : MS34003,VY1167,5.00,,,5,,
ALS Vial : 31 Sample Multiplier: 1

Quant Time: May 27 07:06:57 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

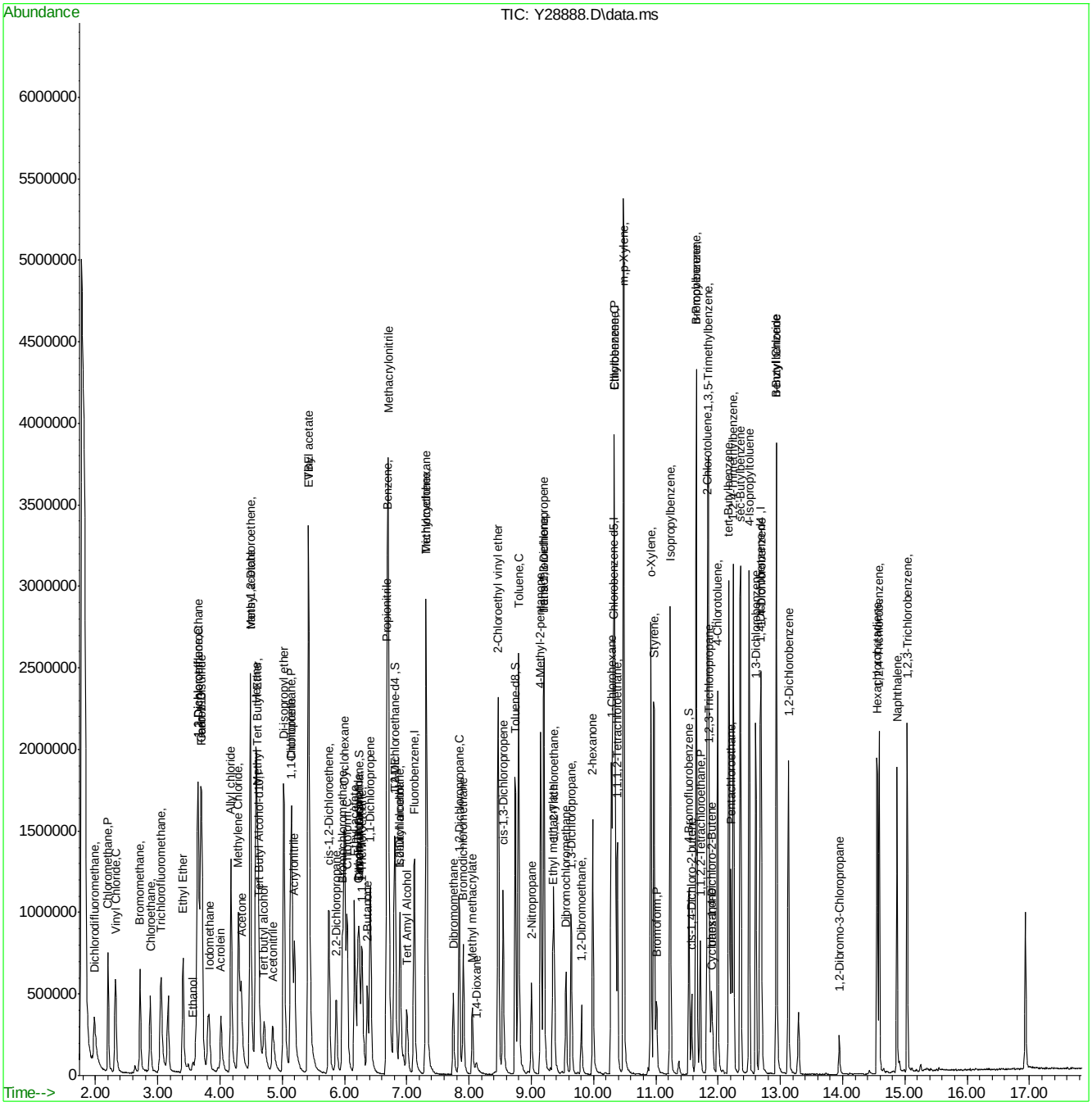
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
92) 4-Isopropyltoluene	12.500	119	1498471	55.33	ug/Kg	98
93) 1,3-Dichlorobenzene	12.603	146	691705	52.71	ug/Kg	96
94) 1,4-Dichlorobenzene	12.695	146	705638	52.59	ug/Kg	97
95) n-Butylbenzene	12.938	92	839755	52.94	ug/Kg	85
96) Benzyl Chloride	12.938	126	117387	46.85	ug/Kg#	93
97) 1,2-Dichlorobenzene	13.133	146	648733	52.13	ug/Kg	99
98) 1,2-Dibromo-3-Chloropr...	13.948	75	61276	50.13	ug/Kg	87
99) Hexachlorobutadiene	14.556	225	251351	52.04	ug/Kg	91
100) 1,2,4-Trichlorobenzene	14.587	180	429160	49.90	ug/Kg	97
101) Naphthalene	14.873	128	981808	51.81	ug/Kg	100
102) 1,2,3-Trichlorobenzene	15.037	180	431426	52.15	ug/Kg	97
104) Ethanol	3.569	45	82117	976.34	ug/Kg	88
105) Acrolein	4.014	56	357466	248.05	ug/Kg	94
106) Tert butyl alcohol	4.707	59	408517	461.81	ug/Kg	82
107) Isobutyl alcohol	6.891	42	139750	712.00	ug/Kg	97
108) Tert Amyl Alcohol	7.001	59	235380	333.38	ug/Kg	96
109) 1,4-Dioxane	8.114	88	62269	718.04	ug/Kg	93

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\052616\
Data File : Y28888.D
Acq On : 26 May 2016 8:07 pm
Operator : ericp
Sample : ECC1149-4 Inst : MSVOA14
Misc : MS34003,VY1167,5.00,,,5,,
ALS Vial : 31 Sample Multiplier: 1

Quant Time: May 27 07:06:57 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 Fri May 27 07:20:39 2016 Page: 4

SGS ACCUTEST FA34224

ACCUTEST LABORATORIES SE

DATE:	05-24-16
COLUMN TYPE:	RTX-VMS
DETECTOR:	5973 MSD
INSTRUMENT:	MSVOA6-J
PURGE PRESSURE:	11.3psi
ANALYST:	DP

1-12 pH
lot 200814
0-3 pH
lot 204413A

MS VOA6-J ANALYSIS LOG

METHODS:*	8260
METHOD FILE:	MSV052416.M
CALIB. DATE:	05-24-16
EM VOLTAGE:	1553 V
BFB RESPONSE:	2176165
RUN ID:	VJ 5312

STANDARDS V20243 V20229 V20208 V20200

BFB:	V20220 V20245 V20244 V20246 V20260
ICAL/CCV:	V20222 V20229 V20200 V20208 V20173 V20141 V20240 V20156
ISTD/SURR:	V20220
ICV/QC:	V20225 V20230 V20232 V20231
Purge Volumes	V20182 V20176 V20218 V20237 V20248 V20247 V

DATA FILE	SAMPLE ID, DIL.	Vial #	MATRIX	ALS POS.	SAMPLE METHOD	MANUALLY INTEGRATED PEAKS RATIONALE, PEAK #	PH	CI ?	RR	COMMENTS
J0976749	BLK	N/A	Water	1	8260		N/A	N/A		✓
J 50	BFB			1						Auto Passed
J 51	CCS295-5			1		gases ↑				20ul→50ul fail↑
J 52	BFB			1						Auto Passed
J 53	ICS312-1			1		SP(8) OP(37)				0.5ul→5ul
J 54	-2			2		SP(8) OP(37) PII(107)				2.5ul→50ul
J 55	-3			3		SP(8) OP(37)				5ul→50ul
J 56	-4			4		SP(8) OP(37) PII(107)				12.5ul→50ul
J 57	-5			5		SP(8) OP(37)				20ul→50ul
J 58	-6			6		SP(8) OP(37)				35ul→50ul
J 59	-7			7						50ul→50ul
J 60	BLK			8						✓
J 61	ICVS295-5			9		SP(8) OP(37) PII(107)				25ul→50ul ✓
J 62	BS			1		SP(8) OP(37) PII(107)				12.5ul→40ml ✓
J 63	MB			2						✓
J 64	FA33915-3	2		3			1	N		✓
J 65	-5	2		4			4			✓
J 66	FA33953-4	1		5			1			NO
J 67	-5	1		6			1			NO
J 68	-6	1		7			1			NO
J 69	-7	1		8			1			✓
J 70	FA33968-4	1		9			1			NO
J 71	-5	1		10			1			✓
J 72	-6	1		11			1			✓
J 73	-8	2		12		SP(2)	1			✓
J 74	-9	2		13			1			✓
J 75	FA33997-1	1		14			1			✓

* 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:	05-24-16
COLUMN TYPE:	RTX-UMS
DETECTOR:	5973 MSD
INSTRUMENT:	MSVOA6-J
PURGE PRESSURE:	11.3 psi
ANALYST:	DP

MS VOA6-J ANALYSIS LOG

METHODS:*	8260
METHOD FILE:	MS052416A.m
CALIB. DATE:	05-24-16
EM VOLTAGE:	1552V
BFB RESPONSE:	2176165
RUN ID:	VJ 5312

STANDARDS

BFB:	V20220
ICAL/CCV:	V20243 V20229 V20208 V20200 V20245 V20244 V20246 V2024
ISTD/SURR:	V20220
ICV/QC:	V20225 V20230 V20232 V20231
Purge Volume 5.0mL	V20182 V20176 V20218 V20237

DATA FILE	SAMPLE ID, DIL.	Vial #	MATRIX	ALS POS.	SAMPLE METHOD	MANUALLY INTEGRATED PEAKS RATIONALE, PEAK #	PH	CI ?	RR	COMMENTS
J 76	FA33997-2	2	420	15	8260		1	D		✓
J 77	-3	2	↓	16	↓		1	↓		✓
J 78	-3MS	3	↓	17	↓	SP(8) OP(37)	1	↓		12.5mL/240mL ✓
J 79	-3MSD	3	↓	17	↓	SP(8) OP(37) PII(107)	1	↓		↓ ✓
J 80	ECCS312-5	1	↓	18	↓	SP(8) OP(37) PII(107)	→	→		20mL/25mL. ✓
J										
J										
J										
J										
J										
J										
J										
J										
J										
J										
J										
J										
J										
J										
J										
J										
J										
J										
J										
J										
J										
J										

05-24-16 DP

* 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:	05-26-16
COLUMN TYPE:	RTx – 1ms
DETECTOR:	5973 MSD
INSTRUMENT:	MSVOA6-J
PURGE PRESSURE:	11.3psi
ANALYST:	DP

1-12 pH
lot 200814
0-3 pH
lot 204413A

MS VOA6-J ANALYSIS LOG

METHODS:*	8260
METHOD FILE:	MSJ05241 6A.m
CALIB. DATE:	05-24-16
EM VOLTAGE:	1653 V
BFB RESPONSE:	2327463
RUN ID:	VJ5315/5316

STANDARDS

BFB:	V20220
ICAL/CCV:	V20243 V20229 V20244 V20256 V20255 V20245 V20246 V20240
ISTD/SURR:	V20220
ICV/QC:	V20248 V20230 V20231 V20247
Purge Volume	5ml V20232 V202187 V20218 V2023

DP 05-26-16

DATA FILE	SAMPLE ID, DIL.	Vial #	MATRIX	ALS POS.	SAMPLE METHOD	MANUALLY INTEGRATED PEAKS RATIONALE, PEAK #	PH	CI ?	RR	COMMENTS
J0976811	Blk	N/A	H2O	1	8260		N/A	N/A		✓
J 12	BFB			1						Passed Auto
J 13	CCS312-5			1		SP(8) OP(37) PII(107)				20ml→50ml
J 14	BS			1		SP(8) OP(37)				12.5ml→40ml
J 15	MB			2						✓
J 16	FA34224-1 MA	2		1		OP(73)	1	N		✓
J 17	-2MA	2		2			1			ND
J 18	-6MA	2		3			1		20X	TBAT
J 19	-7MA	2		4			1		1X	CO
J 20	-8MA	1		5			1			ND
J 21	-9MA	2		6			1			ND
J 22	-1MS MA	3		7		SP(8) OP(37) PII(107)	1			12.5ml→40ml ✓
J 23	-1msdMA	3		8		SP(8) OP(37) PII(107)	1			✓
J 24	FA34176-2,5ox	3		9		1ml→50ml	1	N		✓
J 25	-1	3		10		DP 05-26-16	1			✓
J 26	DP ~~-15~~	3		11		FA34224-7MA	1	N		✓
J 27	05-26-16 ~~-16~~	3		12		FA34224-6/20x MA 05/26/16 SR MP.97	1	N		✓ 2.5ml/50ml
J 28	FA34176 -17	1		13			1			ND
J 29	-25	2		14			1			✓
J 30	-26	2		15			1			✓
J 31	-27	2		16			1			✓
J 32	FA34111-1	1		17			1			✓
J 33	FA34201-1	2		18			1			✓
J 34	-2	2		19			1			✓
J 35	-3	2		20		OP(32) PII(107)	1			✓
J 36	-4	2		21			1			✓
J 37	FA34111-1MS	3		21		SP(8) OP(37) PII(107)	1			12.5ml→40ml ✓
38	-1msd	3		21		SP(8) OP(37) PII(107)	1			✓
39	FCCS312-5	–		22		SP(8) OP(37) PII (107)				20ml→50ml ✓

* 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** Poody Defined Baseline, **BR** Baseline Ripple, **PII** Poor Instrument Integration

Analyst's Signature: DP / MP

msvoa6_j_log.xls NP 06/10

ACCUTEST LABORATORIES SE

DATE:	05-26-16
COLUMN TYPE:	RTx-VMS
DETECTOR:	5973 MSD
INSTRUMENT:	MSVOA6-J
PURGE PRESSURE:	11.3psi
ANALYST:	DP

1-12 pH
lot 200814
0-3 pH
lot 204413A

MS VOA6-J ANALYSIS LOG

METHODS:*	8260
METHOD FILE:	MSJ05S2416A.m
CALIB. DATE:	05-24-16
EM VOLTAGE:	1653 V
BFB RESPONSE:	23274.63
RUN ID:	VJ5315/5316

STANDARDS

BFB:	V20220
ICAL/CCV:	V20243 V20229 V20244 V20256 V20255 V20245 V20246 V20240
ISTD/SURR:	V20220
ICV/QC:	V20248 V20230 V20231 V20247
Purge Volume	50ml V20232 V202187 DP05-26-16 V20218 V20235

DATA FILE	SAMPLE ID, DIL.	Vial #	MATRIX	ALS POS.	SAMPLE METHOD	MANUALLY INTEGRATED PEAKS RATIONALE, PEAK #	PH	CI ?	RR	COMMENTS
J0976811	BLK	N/A	H2O	1	8260		N/A	N/A		✓
J 12	BFB			1						Passed Auto
J 13	CCS312-5			1		SP(8) OP(37) PII(107)				20ml→50ml
J 14	BS			1		SP(8) OP(37)				12.5ml→40ml
J 15	MB			2						✓
J 16	FA34224-1 MA	2		1		OP(73)	1	N		✓
J 17	-2MA	2		2			1			ND
J 18	-6MA	2		3			1		DOX	TBAT
J 19	-7MA	2		4			1		1X	CO
J 20	-8MA	1		5			1			ND
J 21	-9MA	2		6			1			ND
J 22	-1MS MA	3		7		SP(8) OP(37) PII(107)	1			12.5ml→40ml ✓
J 23	-1MSDMA	3		8		SP(8) OP(37) PII(107)	1			✓
J 24	FA34176-2,5ox	3		9		1ml→50ml	1	N		✓
J 25	-1	3		10		DP05-26-16	1			✓
J 26	DP ~~-15~~	3		11		FA34224-7MA	1	N		✓
J 27	05-26-16 ~~-16~~	3		12		FA34224-6/20x MA 06/12/16 SR MP.97	1	N		✓ 2.5ml/50ml
J 28	FA34176 -17	1		13			1			ND
J 29	-25	2		14			1			✓
J 30	-26	2		15			1			✓
J 31	-27	2		16			1			✓
J 32	FA34111-1	1		17			1			✓
J 33	FA34201 -1	2		18			1			✓
J 34	-2	2		19			1			✓
J 35	-3	2		20		OP(32) PII(107)	1			✓
J 36	-4	2		21			1			✓
J 37	FA34111-1MS	3		21		SP(8) OP(37) PII(107)	1			12.5ml→40ml ✓
38	-1MSD	3		21		SP(8) OP(37) PII(107)	1			✓
39	FCCS312-5			22		SP(8) OP(37) PII(107)				20ml→50ml ✓

* 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

msvoa6_j_log.xls NP 06/10

Analyst's Signature: DP / DP

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 = 75 ml MeH 24 ml	
	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/24 ml
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	—	—	—	100	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:	

MS VOA14-Y ANALYSIS LOG

METHODS:*	8260
METHOD FILE:	0506MSVOA14-4
CALIB. DATE:	05-06-16
EM VOLTAGE:	1953
BFB RESPONSE:	1401679
RUN ID:	VY 1149

STANDARDS

BFB:	.BFB: V20120
ICAL/CCV:	.ICAL/CCV: V20149,V20159,V20151, .V20147,V20145,V20143
ISTD/SURR:	.ISTD/SURR: V20161
ICV/QC:	.ICV/QC: V20150,V20160,V20152, .V20148,V20146,V20144,
	STD B=250 ppm=~~50~~ 75 ug/L 24hrs
METHANOL LOT #:	157264

A

B

DATA FILE	SAMPLE ID	Vial #	MATRIX	SAMPLE AMT.	MeOH ALIQ.	ALS POS.	PREP METHOD	MANUALLY INTEGRATED PEAKS RATIONALE, PEAK #	RR	COMMENTS
										STD A=250 ppm=~~50~~ 75 ug/L 24hrs
Y 28402	FA33727-1MSD	—	S	4.10	—	32	—		—	Int STD Bad
Y 03	ECC1149-4	—	—	—	—	33	—		—	Int STD Bad
Y 04	Cond Run	—	—	—	—	1	—		—	See VY1150
Y 05		—	—	—	—	2	—		—	
Y 06		—	—	—	—	3	—		—	
Y 07		—	—	—	—	4	—		—	
Y										
Y										
Y										
Y										
Y										
Y										
Y										
Y										
Y										
Y										
Y										
Y										
Y										
Y										
Y										
Y										
Y										
Y										
Y										
Y										
Y										
Y										
Y										

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:

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

SGS ACCUTEST FA34224

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 (AC2481)	—	—	4.50		1237		5030A	IN bot #1 prep
41	-1	W ↓	—	—	5.04					
42	-1	M (AC2456)	—	—	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

ACCUTEST LABORATORIES SE

DATE:	5-26-16
COLUMN TYPE:	MTX VMS
DETECTOR:	5973 MSD
INSTRUMENT:	MSVOA14-Y
PURGE PRESSURE:	26
ANALYST:	S

MS VOA14-Y ANALYSIS LOG

METHODS:*	8260
METHOD FILE:	050616MS9-Y
CALIB. DATE:	05-06-16
EM VOLTAGE:	2035
BFB RESPONSE:	1358269
RUN ID:	VY 1166

VY1167

STANDARDS

BFB:	BFB: V20253
ICAL/CCV:	ICAL/CCV: V20233,V20235,V20241, V20250,V20145,V20143
ISTD/SURR:	ISTD/SURR: V20161
ICV/QC:	ICV/QC: V20234,V20236,V20242, V20251,V20146,V20144
STD B = 250 ppm = 75 ug/L 1/24 ml	
METHANOL LOT #:	157266

	DATA FILE	SAMPLE ID	Vial #	MATRIX	SAMPLE AMT.	MeOH ALIQ.	ALS POS.	PREP METHOD	MANUALLY INTEGRATED PEAKS RATIONALE, PEAK #	RR	COMMENTS STD A = 25 ppm = 1 ug/L
Y	28862	BFB	—	—	—	—	5	—		—	Are Passed
Y	63	CC 1149-4	—	—	—	—	6	—		—	Ind STD A 1 ul
Y	64	BS	—	—	—	—	7	—		—	Ind STD B 1 ul
Y	65	MB	—	—	—	100	8	—		—	
Y	66	FA 34192-6, 50X	B3336	S	5.97	10	9	EN	MA 8260C	RR	9 ul Method Blank 10 K + 20 K
Y	67	-5MA	B3331	S	5.20	—	10	EN		RR	1X + 50X
Y	68	FA 34224-3MA	B3390	S	4.98	—	11	EN		—	
Y	69	-4 MA	B3393	S	5.46	—	12	EN		—	
Y	70	-5 MA	B3397	S	5.80	—	13	EN		—	
Y	71	FA 34192-6MA, 10K	B3336	S	5.97	5/10	14	EN		—	9 ul Method Blank
Y	72	-6MA, 20K	B3336	S	5.97	25/10	15	EN		—	9 ul " " Dump
Y	73	-5 MA	B3332	S	5.06	—	16	EN		—	
Y	74	-5MS MA	—	S	4.69	—	17	—		—	Ind STD Blank
Y	75	-5MSD MA	—	S	4.68	—	18	—		—	" " " "
Y	76	-5, 50X MA	B3333	S	5.75	100	19	EN		—	Dump
Y	77	FA 34266-1	B3435	S	4.56	—	20	PT	VY1167	—	NaHSO4 ~~IS4T~~ ok
Y	78	-2	AA761	S	4.06	—	21	PT		—	IS4 ok
Y	79	-3	B3441	S	3.78	—	22	PT		RR	SS3,4T, IS3T
Y	80	-4	B3444	S	4.69	—	23	PT		~~RR~~	~~IS3T SS3,4T~~ chg 5-27-16
Y	81	-5	B3447	S	4.10	—	24	PT		RR	1X, 50DX SS4T IS3T
Y	82	-6	B3438	S	4.42	—	25	PT		RR	1X, 50X, 500X SS3,4T IS2,3T
Y	83	-7	B3450	S	4.28	—	26	PT		RR	1X, 50X, 500X SS4T IS3T
Y	84	-1MS	—	S	4.11	—	27	—		—	Ind STD Blank
Y	85	-1MSD	—	S	4.11	—	28	—		—	" " " "
Y	86	FA34183-1	B3240	S	3.36	—	29	PT	NaHSO4	—	
Y	87	FA34190-16	B3316	S	5.30	—	30	PT	Alt. out	—	See VC4605
Y	88	ECC 1149-4	—	—	—	—	31	—		—	Ind STD A 1 ul

* 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: SR

msvoa14_y_log.xls NF 09/11

SGS ACCUTEST FA34224

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
B3329	FA34190-20	W (NaHSO4)	31.88	37.56	5.68	5/24/16	1452	CG	PT	IN extra label preserved
30	-20	M	29.77	35.42	5.65		1454			
31	FA34192-5	W (AC2481)	—	—	5.20		1500		EN	IN, FS, P
32	-5	W	—	—	5.06					
33	-5	M (AC2480)	—	—	5.75					
34	-6	W	—	—	5.02		1507			
35	-6	W	—	—	5.28					
36	-6	M	—	—	5.97		1509			
37	FA34199-1	W	31.08	38.83	7.75	5/25/16 JLG 5/25/16	9:30	JRC	PT	IN
38	-1	W	30.82	38.42	7.60					
39	-1	M	29.93	35.91	5.98					
40	FA34204-1	W	31.38	36.23	4.85		9:40			
41	-1	W	31.29	37.84	6.55					
42	-1	M AC2480	—	—	4.68				←	50304
43	-1	M	—	—	4.70				←	
44	FA34204-2	W	31.13	37.04	5.91				PT	
45	-2	W	31.13	37.86	6.73					
46	-2	M	29.29	36.61	7.32					
47	-2	M	29.22	36.48	7.26					
48	FA34204-3	W	30.69	36.56	5.87					
49	-3	W	30.62	36.72	6.10					
50	-3	M	29.88	35.37	5.49					
B3351	-3	M	29.29	35.34	6.05	5/25/16	9:55	JLG		

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 VY1166 page 2 of 8

SGS ACCUTEST FA34224

364 of 380

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
B3376	FA34222-3	M	29.74	36.57	6.83	05/25/16	13:26	DKM	PT	IN
77	-3	M	29.54	36.38	6.84	05/25/16				
78	-4	W	31.08	37.73	6.65					
79	-4	W	31.05	37.69	6.64					
80	-4	M	29.87	36.28	6.41					
81	-4	M	29.83	36.01	6.18					
82	-5	W	31.02	31.01	-0.01					TB
83	-5	W	30.81	30.80	-0.01					
84	-5	M	30.01	29.79	-0.22					
85	FA34226-1 -5	~~M~~ NaHSO4 W	35.38	40.39	5.01		13:39			
86	-1	W NaHSO4	35.27	39.34	4.07					
87	-1	M	32.98	36.73	3.75					
88	-1	W	34.91	38.86	3.95					
89	-1	W	34.55	38.76	4.21		13:47			
90	FA34224-3	W (AC2481)	—	—	4.98		13:55		EN	FS unlocked
91	-3	W	—	—	5.14					
92	-3	M (AC2480)	—	—	5.26					
93	-4	W (AC2481)	—	—	5.46					
94	-4	W	—	—	5.13					
95	-4	M (AC2480)	—	—	5.25					
96	-5	W (AC2481)	—	—	6.19					
97	-5	W	—	—	5.80					
B3398	-5	M (AC2480)	—	—	5.84					

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
B3422	FA34258-2	W	30.94	37.54	6.60	05/26/16	11:17	DKM	PT	IN
23	-2	W	30.83	38.90	8.07					
24	-2	M	29.96	37.65	7.69					
25	-3	W	31.21	38.48	7.27					
26	-3	W	30.88	38.46	7.58					
27	-3	M	30.17	37.11	6.94					
28	-4	W	30.72	37.81	7.09					
29	-4	W	31.02	39.76	8.74					
30	-4	M	29.90	37.34	7.44					
31	-5	W	30.54	38.02	7.48					
32	-5	W	30.55	38.56	8.01					
33	-5	M	29.92	36.74	6.82		11:28			
34	FA34266-1	W (NaHSO4)	31.64	35.89	4.25	05/26/16	12:03	DKM	PT	TN
35	-1	W	31.42	36.00	4.58					
36	-1	M	30.01	33.96	3.95					
37	-6 ~~-2~~	W (NaHSO4)	31.67	35.52	3.85					
38	-6 ~~-2~~	W	31.68	36.10	4.42					
39	-6 ~~-2~~	M	29.83	33.37	3.54					
40	-3	W (NaHSO4)	31.56	35.08	3.52					
41	-3	W	31.58	35.36	3.78					
42	-3	M	29.61	33.87	4.26					
43	-4	W (NaHSO4)	31.70	36.17	4.47					
B34 44	-4	W	31.76	36.39	4.69		12:08			

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 FA34224

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
B3445	FA34266-4	M	29.58	34.15	4.57	05/26/16	12:10	JOM	PT	IN
46	-5	W (NaHSO4)	31.60	35.76	4.16	↓	↓	↓	↓	↓
47	-5	W ↓	31.65	35.75	4.10	↓	↓	↓	↓	↓
48	-5	M	29.64	34.07	4.43	↓	↓	↓	↓	↓
49	-7	W (NaHSO4)	30.92	35.65	4.73	↓	↓	↓	↓	↓
50	-7	W ↓	30.96	35.24	4.28	↓	↓	↓	↓	↓
51	-7	M	29.82	34.49	4.67	↓	12:18	↓	↓	↓
52										
53										
54										
55										
56										
57										
58										
59										
60										
61										
62										
63										
64										
65										
66										
B3467										

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
B3237	FA34177-11	W (NaHSO4)	31.61	31.64	0.03	5/24/16	1147	CG	PT	IN preserved TB
38	-11	M	29.82	29.32	-0.50		1148			
39	FA34183-1	W	30.82	34.82	4.00		1314			IN
40	-1	W	30.92	34.28	3.36					
41	-1	M	29.81	33.94	4.13					
42	-1	M	29.62	32.60	2.98					
43	-2	W	30.90	35.98	5.08					
44	-2	W	30.91	35.90	4.99					
45	-2	M	29.75	33.37	3.62					
46	-2	M	29.64	29.58	-0.06					no soil?
47	-3	W	30.89	35.96	5.07					
48	-3	W	30.88	35.52	4.64					
49	-3	M	29.88	34.33	4.45					
50	-3	M	29.77	33.98	4.21					
51	-4	W	30.85	34.35	3.50					
52	-4	W	30.95	34.82	3.87					
53	-4	M	29.85	33.54	3.69					
54	-4	M	29.89	34.00	4.11					
55	-5	W	30.12	33.26	3.14					
56	-5	W	30.80	35.70	4.90					
57	-5	M	29.75	33.58	3.83					
58	-5	M	29.32	34.75	5.43					
B3259	-6	W	30.90	34.62	3.72		1330			

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 1

Serial #	Sample #	Vial Type or Vial Lot #	Tare Wt gram	Total Wt gram	Sample Wt gram	Date	Time	Initials	Container Type *	Comments
AA758	FA34266-12	W (NaHSO4)	31.63	35.27	3.64	5/26/16	12:11	AH	PT	IN
59	12	m	29.62	33.33	3.71					
60	-2	W (NaHSO4)	31.00	35.23	4.23					
61	-2	W (NaHSO4)	31.07	35.13	4.06					
62	-2	m	29.65	33.76	4.11					
63	-11	W (NaHSO4)	31.68	35.34	3.66					
64	-11	W (NaHSO4)	31.73	35.24	3.51					
65	-11	m	29.90	33.15	3.25		12:25			
66										
67										
68										
69										
70										
71										
72										
73										
74										
75										
76										
77										
78										
79										
AA780										

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 1.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
B3306	FA34190-12	M	29.95	33.55	3.60	5/24/16	1438	CG	PT	IN extra label preserved
07	-13	W (NaHSO4)	31.46	36.53	5.07					
08	-13	W ↓	31.52	36.74	5.22					
09	-13	M	29.58	35.40	5.82					
10	-14	W (NaHSO4)	31.65	36.99	5.34					
11	-14	W ↓	31.49	36.99	5.50					
12	-14	M	29.51	34.55	5.04					
13	-15	W (NaHSO4)	31.58	36.74	5.16					
14	-15	W ↓	31.75	37.00	5.25					
15	-15	M	29.77	34.98	5.21					
16	-16	W (NaHSO4)	31.67	36.97	5.30					
17	-16	W ↓	31.55	35.19	3.64					
18	-16	M	29.72	34.61	4.89					
19	-17	W (NaHSO4)	31.68	37.29	5.61					
20	CG 5/24/16 -17	~~-17~~ W ↓	31.60	37.06	5.46					
21	-17	M	29.46	34.83	5.37					
22	-18	W (NaHSO4)	31.53	37.16	5.63					
23	-18	W ↓	31.70	37.12	5.42					
24	-18	M	29.62	34.80	5.18					
25	-19	W (NaHSO4)	31.59	37.00	5.41					
26	-19	W ↓	31.76	37.03	5.27					
27	-19	M	29.82	33.20	3.38					
B3328	-20	W (NaHSO4)	31.76	37.63	5.87		1453			

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:	5-26-16
COLUMN TYPE:	MTX VMS
DETECTOR:	5973 MSD
INSTRUMENT:	MSVOA14-Y
PURGE PRESSURE:	20
ANALYST:	S

MS VOA14-Y ANALYSIS LOG

METHODS:*	8260
METHOD FILE:	050616A009-Y
CALIB. DATE:	05-06-16
EM VOLTAGE:	2035
BFB RESPONSE:	1358269
RUN ID:	VY 1166, VY1167

STANDARDS

BFB:	.BFB: V20253
ICAL/CCV:	.ICAL/CCV: V20233,V20235,V20241, .V20250,V20145,V20143
ISTD/SURR:	.ISTD/SURR: V20161
ICV/QC:	.ICV/QC: V20234,V20236,V20242, .V20251,V20146,V20144
STD B = 250 ppm = 75 ml/24 ml	
METHANOL LOT #:	157266

	DATA FILE	SAMPLE ID	Vial #	MATRIX	SAMPLE AMT.	MeOH ALIQ.	ALS POS.	PREP METHOD	MANUALLY INTEGRATED PEAKS RATIONALE, PEAK #	RR	COMMENTS
	Y 28862	BFB	—	—	—	—	5	—		—	STD# = 250 ppm = 75 ml/24 ml; Ave Passed
	Y 63	CC 1149-4	—	—	—	—	6	—		—	1ml STD A 15ml
	Y 64	BS	—	—	—	—	7	—		—	1ml STD B 15ml
	Y 65	MB	—	—	—	100	8	—		—	
204	Y 66	FA34192-6, 500X	B3336	5	5.97	10	9	EN	MA 8260C	RN	90ml Methanol 10X+20X
	Y 67	-5MA	B3331	5	5.20	—	10	EN		RN	1X + 50X
	Y 68	FA34224-3MA	B3390	5	4.98	—	11	EN		—	
	Y 69	-4 MA	B3393	5	5.46	—	12	EN		—	
	Y 70	-5 MA	B3397	5	5.84	—	13	EN		—	
	Y 71	FA34192-6MA, 10K	B3336	5	5.97	5/10	14	EN		—	9ml Methanol
	72	-6MA, 20K	B3336	5	5.97	25/10	15	EN		—	98ml " " Dump
	Y 73	-5 MA	B3332	5	5.06	—	16	EN		—	
	Y 74	-5MS MA	—	5	4.69	—	17	—		—	1ml STD Added
	Y 75	-5MSD MA	—	5	4.68	—	18	—		—	" " " "
	Y 76	-5, 50X MA	B3333	5	5.75	100	19	EN		—	Dump
203	Y 77	FA34266-1	B3435	5	4.56	—	20	PT	VY1167	—	NaHSO4 ~~SS4T~~ ok
	Y 78	-2	AA761	5	4.06	—	21	PT		—	JS4 ok
	Y 79	-3	B3441	5	3.78	—	22	PT		RN	SS3,4T, JS3T
	Y 80	-4	B3444	5	4.69	—	23	PT		~~RN~~	~~JS3T SS3,4T~~ ok 5-27-16
	Y 81	-5	B3447	5	4.10	—	24	PT		RN	1X, 50DX SS4T JS3T
	Y 82	-6	B3438	5	4.42	—	25	PT		RN	1X, 50X, 500X SS3,4T JS2,3T
	Y 83	-7	B3450	5	4.28	—	26	PT		RN	1X, 50X, 500X SS4T JS3T
	Y 84	-1MS	—	5	4.11	—	27	—		—	1ml STD Added
	Y 85	-1MSD	—	5	4.11	—	28	—		—	" " " "
	Y 86	FA34183-1	B3240	5	3.36	—	29	PT	NaHSO4	—	
	Y 87	FA34190-16	B3316	5	5.30	—	30	PT	Alt Dot	—	See VC4605
	Y 88	ECC 1149-4	—	—	—	—	31	—		—	1ml STD A 15ml

* 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: SR

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
B3329	FA34190-20	W (NaHSO4)	31.88	37.56	5.68	5/24/16	1452	CG	PT	IN extra label preserved
30	-20	M	29.77	35.42	5.65		1454			
31	FA34192-5	W (AC2481)	—	—	5.20		1500		EN	IN, FS, P
32	-5	W ↓	—	—	5.06					
33	-5	M (AC2480)	—	—	5.75		↓			
34	-6	W	—	—	5.02		1507			
35	-6	W	—	—	5.28					
36	-6	M	—	—	5.97		1509			
37	FA34199-1	W	31.08	38.83	7.75	5/25/16	9:30	JRC	PT	IN
38	-1	W	30.82	38.42	7.60					
39	-1	M	29.93	35.91	5.98					
40	FA34204-1	W	31.38	36.23	4.85		9:40			
41	-1	W	31.29	37.84	6.55					
42	-1	M AC2480	—	—	4.68				←	5030A
43	-1	M ↓	—	—	4.70				←	↓
44	FA34204-2	W	31.13	37.04	5.91				PT	
45	-2	W	31.13	37.86	6.73					
46	-2	M	29.29	36.61	7.32					
47	-2	M	29.22	36.48	7.26					
48	FA34204-3	W	30.69	36.56	5.87					
49	-3	W	30.62	36.72	6.10					
50	-3	M	29.88	35.37	5.49					
B3351	-3	M	29.29	35.34	6.05	5/25/16	9:55	JRC		

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 VY1167 page 2 of 8
SGS
372 of 380
ACCUTEST
FA34224
7.7.6
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 DKM 05/25/16	Time	Initials	Container Type *	Comments
B3376	FA34222-3	M	29.74	36.57	6.83	05/25/16	13:26	DKM	PT	IN
77	-3	M	29.54	36.38	6.84	05/25/16	↓	↓	↓	↓
78	-4	W	31.08	37.73	6.65	↓	↓	↓	↓	↓
79	-4	W	31.05	37.59	6.54	↓	↓	↓	↓	↓
80	-4	M	29.87	36.28	6.41	↓	↓	↓	↓	↓
81	-4	M	29.83	36.01	6.18	↓	↓	↓	↓	↓
82	-5	W	31.02	31.01	-0.01	↓	↓	↓	↓	TB
83	-5	W	30.81	30.80	-0.01	↓	↓	↓	↓	↓
84	-5	M DKM 05/25/16	30.01	29.79	-0.22	↓	↓	↓	↓	↓
85	FA34226-1 -5	M NaHSO4 W	35.38	40.39	5.01	↓	13:39	↓	↓	↓
86	-1	W NaHSO4	35.27	39.34	4.07	↓	↓	↓	↓	↓
87	-1	M	32.98	36.73	3.75	↓	↓	↓	↓	↓
88	-1	W	34.91	38.86	3.95	↓	↓	↓	↓	↓
89	-1	W	34.55	38.76	4.21	↓	13:47	↓	↓	↓
90	FA34224-3	W (AC2481)	—	—	4.98	↓	13:55	↓	EN	FS unlocked
91	-3	W ↓	—	—	5.14	↓	↓	↓	↓	↓
92	-3	M (AC2480)	—	—	5.26	↓	↓	↓	↓	↓
93	-4	W (AC2481)	—	—	5.46	↓	↓	↓	↓	↓
94	-4	W ↓	—	—	5.13	↓	↓	↓	↓	↓
95	-4	M (AC2480)	—	—	5.25	↓	↓	↓	↓	↓
96	-5	W (AC2481)	—	—	6.19	↓	↓	↓	↓	↓
97	-5	W ↓	—	—	5.80	↓	↓	↓	↓	↓
B3398	-5	M (AC2480)	—	—	5.84	↓	↓	↓	↓	↓

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
B3422	FA34258-2	W	30.94	37.54	6.60	05/26/16	11:17	DKM	PT	IN
23	-2	W	30.83	38.90	8.07					
24	-2	M	29.96	37.65	7.69					
25	-3	W	31.21	38.48	7.27					
26	-3	W	30.88	38.46	7.58					
27	-3	M	30.17	37.11	6.94					
28	-4	W	30.72	37.81	7.09					
29	-4	W	31.02	39.76	8.74					
30	-4	M	29.90	37.34	7.44					
31	-5	W	30.54	38.02	7.48					
32	-5	W	30.55	38.56	8.01					
33	-5	M	29.92	36.74	6.82		11:28			
34	FA34266-1	W (NaHSO4)	31.64	35.89	4.25	05/26/16	12:03	DKM	PT	IN
35	-1	W	31.42	36.00	4.58					
36	-1	M	30.01	33.96	3.95					
37	-6 ~~-2~~	W (NaHSO4)	31.67	35.52	3.85					
38	-6 ~~-2~~	W	31.68	36.10	4.42					
39	-6 ~~-2~~	M	29.83	33.37	3.54					
40	-3	W (NaHSO4)	31.56	35.08	3.52					
41	-3	W	31.58	35.36	3.78					
42	-3	M	29.61	33.87	4.26					
43	-4	W (NaHSO4)	31.70	36.17	4.47					
B34 44	-4	W	31.70	36.39	4.69		12:08			

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
B3445	FA34266-4	M	29.58	34.15	4.57	05/26/14	12:10	JKM	PT	IN
46	-5	W (NaHSO4)	31.60	35.76	4.16	↓	↓	↓	↓	↓
47	-5	W ↓	31.65	35.75	4.10					
48	-5	M	29.64	34.07	4.43					
49	-7	W (NaHSO4)	30.92	35.65	4.73					
50	-7	W ↓	30.96	35.24	4.28					
51	-7	M	29.82	34.49	4.67		12:18			
52										
53										
54										
55										
56										
57										
58										
59										
60										
61										
62										
63										
64										
65										
66										
B3467										

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
B3237	FA34177-11	W (NaHSO4)	31.61	31.64	0.03	5/24/16	1147	CG	PT	IN preserved TB
38	-11	M	29.82	29.32	-0.50		1148			
39	FA34183-1	W	30.82	34.82	4.00		1314			IN
40	-1	W	30.92	34.28	3.36					
41	-1	M	29.81	33.94	4.13					
42	-1	M	29.62	32.60	2.98					
43	-2	W	30.90	35.98	5.08					
44	-2	W	30.91	35.90	4.99					
45	-2	M	29.75	33.37	3.62					
46	-2	M	29.64	29.58	-0.06					no soil?
47	-3	W	30.89	35.96	5.07					
48	-3	W	30.88	35.52	4.64					
49	-3	M	29.88	34.33	4.45					
50	-3	M	29.77	33.98	4.21					
51	-4	W	30.85	34.35	3.50					
52	-4	W	30.95	34.82	3.87					
53	-4	M	29.85	33.54	3.69					
54	-4	M	29.89	34.00	4.11					
55	-5	W	30.12	33.26	3.14					
56	-5	W	30.80	35.70	4.90					
57	-5	M	29.75	33.58	3.83					
58	-5	M	29.32	34.75	5.43					
B3259	-6	W	30.90	34.62	3.72		1330			

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 VY1167 page 6 of 8

SGS ACCUTEST FA34224

376 of 380

7.7.6 7

ACCUTEST SOUTHEAST

5035A SOIL PREP LOG

BALANCE ID: NAV 1

Serial #	Sample #	Vial Type or Vial Lot #	Tare Wt gram	Total Wt gram	Sample Wt gram	Date	Time	Initials	Container Type *	Comments
AA758	FA34266.12	W (NaHSO4)	31.63	35.27	3.64	5/26/16	12:11	AH	PT	IN
59	12	m	29.62	33.33	3.71					
60	-2	W (NaHSO4)	31.00	35.23	4.23					
61	-2	W (NaHSO4)	31.07	35.13	4.06					
62	-2	m	29.65	33.76	4.11					
63	-11	W (NaHSO4)	31.68	35.34	3.66					
64	-11	W (NaHSO4)	31.73	35.24	3.51					
65	-11	m	29.90	33.15	3.25		12:25			
66										
67										
68										
69										
70										
71										
72										
73										
74										
75										
76										
77										
78										
79										
AA780										

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 1.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
B3306	FA34190-12	M	29.95	33.55	3.60	5/24/16	1438	CG	PT	IN extra label preserved
07	-13	W (NaHSO4)	31.46	36.53	5.07					
08	-13	W ↓	31.52	36.74	5.22					
09	-13	M	29.58	35.40	5.82					
10	-14	W (NaHSO4)	31.65	36.99	5.34					
11	-14	W ↓	31.49	36.99	5.50					
12	-14	M	29.51	34.55	5.04					
13	-15	W (NaHSO4)	31.58	36.74	5.16					
14	-15	W ↓	31.75	37.00	5.25					
15	-15	M	29.77	34.98	5.21					
16	-16	W (NaHSO4)	31.67	36.97	5.30					
17	-16	W ↓	31.55	35.19	3.64					
18	-16	M	29.72	34.61	4.89					
19	-17	W (NaHSO4)	31.68	37.29	5.61					
20	CG 5/24/16 -17	-17 W ↓	31.60	37.06	5.46					
21	-17	M	29.46	34.83	5.37					
22	-18	W (NaHSO4)	31.53	37.16	5.63					
23	-18	W ↓	31.70	37.12	5.42					
24	-18	M	29.62	34.80	5.18					
25	-19	W (NaHSO4)	31.59	37.00	5.41					
26	-19	W ↓	31.76	37.03	5.27					
27	-19	M	29.82	33.20	3.38					
B3328	-20	W (NaHSO4)	31.76	37.63	5.87		1453			

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: FA34224
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, Humacao, PR

Sample: FA34224-3 **Analyzed:** 02-JUN-16 by DB **Method:** SM19 2540G
ClientID: RA8 (5-6)

Wet Weight (Total)	6.99	g
Tare Weight	1.06	g
Dry Weight (Total)	5.94	g
Solids, Percent	82.3	%

Sample: FA34224-5 **Analyzed:** 02-JUN-16 by DB **Method:** SM19 2540G
ClientID: MW 21 (7-8)

Wet Weight (Total)	6.32	g
Tare Weight	1.1	g
Dry Weight (Total)	5.33	g
Solids, Percent	81	%