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Automated Report

Technical Report for

Anderson, Mulholland & Associates

BMSMC, Building 5 Area, Humacao, PR

SM04.00.06

SGS Accutest Job Number: FA39742

Sampling Dates: 12/14/16 - 12/16/16

Report to:

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Total number of pages in report: 778

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Norm Farmer
Technical Director

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SGS Accutest

Sample Summary

Anderson, Mulholland & Associates

Job No: FA39742

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

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
FA39742-1	12/15/16	12:25	JDRS	12/17/16	AQ	Ground Water	S-43S
FA39742-2	12/15/16	14:40	JDRS	12/17/16	AQ	Ground Water	S-43D
FA39742-3	12/15/16	15:07	JDRS	12/17/16	AQ	Field Blank Water	FB-121516
FA39742-4	12/15/16	10:07	JDRS	12/17/16	AQ	Equipment Blank	EB-121516
FA39742-5	12/15/16	14:40	JDRS	12/17/16	AQ	Trip Blank Water	TB-121516 RS
FA39742-6	12/16/16	10:22	JDRS	12/17/16	AQ	Equipment Blank	EB-121616
FA39742-7	12/14/16	11:54	JDRS	12/17/16	AQ	Ground Water	MW-13
FA39742-8	12/14/16	13:41	JDRS	12/17/16	AQ	Ground Water	MW-7
FA39742-9	12/14/16	13:41	JDRS	12/17/16	AQ	Trip Blank Water	TB121416 RS
FA39742-10	12/15/16	12:57	JDRS	12/17/16	AQ	Ground Water	S-42S
FA39742-11	12/15/16	14:53	JDRS	12/17/16	AQ	Ground Water	S-42D
FA39742-12	12/15/16	14:53	JDRS	12/17/16	AQ	Trip Blank Water	TB121516 NR
FA39742-13	12/14/16	17:05	JDRS	12/17/16	AQ	Ground Water	MW-22S

SGS Accutest

Sample Summary
(continued)

Anderson, Mulholland & Associates

Job No: FA39742

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

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
FA39742-14	12/14/16	17:05	JDRS	12/17/16	AQ	Trip Blank Water	TB121416 NRB
FA39742-15	12/14/16	15:14	JDRS	12/17/16	AQ	Field Blank Water	FB121416
FA39742-16	12/16/16	12:03	JDRS	12/17/16	AQ	Ground Water	S-31R (2)
FA39742-16D	12/16/16	12:03	JDRS	12/17/16	AQ	Water Matrix Spike	S-31R (2)
FA39742-16S	12/16/16	12:03	JDRS	12/17/16	AQ	Water Dup/MSD	S-31R (2)
FA39742-17	12/16/16	12:43	JDRS	12/17/16	AQ	Trip Blank Water	TB121616 NRA

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: Anderson, Mulholland & Associates **Job No:** FA39742

Site: BMSMC, Building 5 Area, Humacao, PR **Report Date:** 1/6/2017 3:16:49 PM

10 Sample(s), 5 Trip Blank(s) and 2 Field Blank(s) were collected on/ between 12/14/2016 and 12/16/2016 and were received at SGS Accutest Southeast (SASE) on 12/17/2016 properly preserved, at 3.2 Deg. C and intact. These Samples received an SASE job number of FA39742. 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:** VI1223

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

VI1223-BS: No MS/MSD available for this run.

FA39742-2 for Tetrahydrofuran: Associated calibration passes using linear regression. Reprocessed low standard outside 70-130% method limits.

FA39742-2 for Dichlorodifluoromethane: Associated CCV outside control limits.

FA39742-3 for Dichlorodifluoromethane: Associated CCV outside control limits.

FA39742-4 for Dichlorodifluoromethane: Associated CCV outside control limits.

FA39742-5 for Dichlorodifluoromethane: Associated CCV outside control limits.

FA39742-7 for Dichlorodifluoromethane: Associated CCV outside control limits.

FA39742-8 for Dichlorodifluoromethane: Associated CCV outside control limits.

FA39742-9 for Dichlorodifluoromethane: Associated CCV outside control limits.

FA39742-10 for Dichlorodifluoromethane: Associated CCV outside control limits.

FA39742-13 for Dichlorodifluoromethane: Associated CCV outside control limits.

FA39742-14 for Dichlorodifluoromethane: Associated CCV outside control limits.

FA39742-15 for Dichlorodifluoromethane: Associated CCV outside control limits.

Matrix: AQ **Batch ID:** VI1227

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Blank Spike Recovery(s) for 1,2,4-Trimethylbenzene, Tert-Butyl Alcohol are outside control limits.

VI1227-BS: No sample available for MS/MSD.

FA39742-1 for Tetrahydrofuran: Associated calibration passes using linear regression. Reprocessed low standard outside 70-130% method limits.

FA39742-1 for Tert-Butyl Alcohol: Associated BS recovery outside control limits.

FA39742-1 for 1,2,4-Trimethylbenzene: Associated BS recovery outside control limits.

FA39742-11 for Tert-Butyl Alcohol: Associated BS recovery outside control limits.

FA39742-11 for 1,2,4-Trimethylbenzene: Associated BS recovery outside control limits.

FA39742-12 for Tert-Butyl Alcohol: Associated BS recovery outside control limits.

FA39742-12 for 1,2,4-Trimethylbenzene: Associated BS recovery outside control limits.

Matrix: AQ **Batch ID:** VI1230

All method blanks for this batch meet method specific criteria.

Sample(s) FA39742-16MS, FA39742-16MSD were used as the QC samples indicated.

Blank Spike Recovery(s) for 1,2,4-Trimethylbenzene, Tert-Butyl Alcohol are outside control limits.

Matrix Spike Recovery(s) for Bromoform, Chlorobenzene, Tert-Butyl Alcohol outside control limits. Probable cause is due to matrix interference.

Matrix Spike Duplicate Recovery(s) for Chlorobenzene, Tert-Butyl Alcohol are outside control limits. Probable cause is due to matrix interference.

Matrix Spike/Matrix Spike Duplicate Recovery(s) for Ethylbenzene, m,p-Xylene are outside control limits. Outside control limits due to high level in sample relative to spike amount.

Volatiles by GCMS By Method SW846 8260C

Matrix: AQ **Batch ID:** VI1230

FA39742-6 for Tert-Butyl Alcohol: Associated BS recovery outside control limits.

FA39742-6 for 1,2,4-Trimethylbenzene: Associated BS recovery outside control limits.

FA39742-16 for 1,2,4-Trimethylbenzene: Associated BS recovery outside control limits.

FA39742-16 for Tert-Butyl Alcohol: Associated BS recovery outside control limits.

FA39742-17 for 1,2,4-Trimethylbenzene: Associated BS recovery outside control limits.

FA39742-17 for Tert-Butyl Alcohol: Associated BS recovery outside control limits.

Matrix: AQ **Batch ID:** VJ5531

All method blanks for this batch meet method specific criteria.

Sample(s) FA39907-16MS, FA39907-16MSD were used as the QC samples indicated.

The following samples were run outside of holding time for method SW846 8260C: FA39742-16

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

FA39742-16: Sample re-analyzed beyond hold time; reported results are considered minimum values.

Matrix: AQ **Batch ID:** VJ5532

All method blanks for this batch meet method specific criteria.

Sample(s) FA39942-11MS, FA39942-11MSD were used as the QC samples indicated.

The following samples were run outside of holding time for method SW846 8260C: FA39742-17.

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

RPD(s) for MSD for m,p-Xylene are outside control limits for sample FA39942-11MSD. Probable cause is due to sample non-homogeneity.

FA39742-17: Sample analyzed beyond hold time; reported results are considered minimum values.

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: January 6, 2017

Kim Benham, Client Services (signature on file)

Manual Integration Summary

Lab Sample ID	Analysis Type	File ID	Manual Integrations
FA39742-16MS	MSVOA	I44676.D	1,2-Dichlorotrifluoroethane, 1,4-Dioxane, 1-Chlorohexane, Ethyl Alcohol, Ethylbenzene, Xylene (total)
FA39742-16MSD	MSVOA	I44677.D	1,2-Dichlorotrifluoroethane, 1,4-Dioxane, 1-Chlorohexane, Ethyl Alcohol, Ethylbenzene, Xylene (total)
FA39742-8	MSVOA	I44554.D	1,4-Dichlorobenzene
FA39907-16MS	MSVOA	J0981939.D	Carbon Tetrachloride, Ethyl Alcohol, Trichlorofluoromethane
FA39907-16MSD	MSVOA	J0981940.D	Ethyl Alcohol, Trichlorofluoromethane
FA39942-11MS	MSVOA	J0981965.D	Carbon Tetrachloride, Ethyl Alcohol, Trichlorofluoromethane
FA39942-11MSD	MSVOA	J0981966.D	Ethyl Alcohol, Trichlorofluoromethane
VI1214-IC1214	MSVOA	I44364.D	1,2-Dibromo-3-chloropropane, 1,2-Dichlorotrifluoroethane, 2-Butanone (MEK), Acetone, Acetonitrile, Acrylonitrile, Benzyl Chloride, Carbon Tetrachloride, Ethyl Acetate, Ethyl Alcohol, Methyl Acetate
VI1214-IC1214	MSVOA	I44365.D	1,4-Dioxane, Ethyl Alcohol
VI1214-IC1214	MSVOA	I44366.D	1,2-Dichlorotrifluoroethane, Ethyl Alcohol
VI1214-IC1214	MSVOA	I44367.D	1,2-Dichlorotrifluoroethane, Ethyl Alcohol
VI1214-IC1214	MSVOA	I44369.D	1,2-Dichlorotrifluoroethane, Ethyl Alcohol

Manual Integration Summary

Lab Sample ID	Analysis Type	File ID	Manual Integrations
VI1214-IC1214	MSVOA	I44370.D	1,2-Dichlorotrifluoroethane, Ethyl Alcohol
VI1214-ICC1214	MSVOA	I44368.D	1,2-Dichlorotrifluoroethane, Ethyl Alcohol
VI1214-ICV1214	MSVOA	I44372.D	1,2-Dichlorotrifluoroethane, Ethyl Alcohol
VI1222-CC1214	MSVOA	I44535.D	1,2-Dichlorotrifluoroethane, 1,4-Dioxane, Ethyl Alcohol
VI1223-BS	MSVOA	I44536.D	1,2-Dichlorotrifluoroethane, 1,4-Dioxane, Ethyl Alcohol
VI1226-CC1214	MSVOA	I44592.D	1,2-Dichlorotrifluoroethane, Ethyl Alcohol
VI1227-BS	MSVOA	I44593.D	1,2-Dichlorotrifluoroethane, Ethyl Alcohol
VI1229-CC1214	MSVOA	I44649.D	1,2-Dichlorotrifluoroethane, Ethyl Alcohol
VI1230-BS	MSVOA	I44652.D	1,2-Dichlorotrifluoroethane, Ethyl Alcohol
VJ5529-IC5529	MSVOA	J0981876.D	1,2-Dichlorotrifluoroethane, 1,4-Dichlorobenzene, 1,4-Dioxane, 1-Chlorohexane, 2-Butanone (MEK), 2-Hexanone, 2-Nitropropane, Acetonitrile, Acrolein, Acrylonitrile, Chloroethane, Cyclohexane, Cyclohexanone, Freon 113, Methyl Bromide, Methyl Methacrylate, o-Chlorotoluene, Styrene, Tert-Butyl Alcohol, Trichlorofluoromethane
VJ5529-IC5529	MSVOA	J0981877.D	Carbon Tetrachloride, Ethyl Alcohol, Methyl Methacrylate, Tetrahydrofuran, Trichlorofluoromethane
VJ5529-IC5529	MSVOA	J0981878.D	Ethyl Alcohol, Trichlorofluoromethane
VJ5529-IC5529	MSVOA	J0981879.D	Carbon Tetrachloride, Ethyl Alcohol, Trichlorofluoromethane
VJ5529-IC5529	MSVOA	J0981881.D	Carbon Tetrachloride, Ethyl Alcohol, Trichlorofluoromethane
VJ5529-IC5529	MSVOA	J0981882.D	Carbon Tetrachloride, Ethyl Alcohol, Trichlorofluoromethane
VJ5529-ICC5529	MSVOA	J0981880.D	Carbon Tetrachloride, Ethyl Alcohol, Trichlorofluoromethane
VJ5529-ICV5529	MSVOA	J0981884.D	Carbon Tetrachloride, Ethyl Alcohol, Trichlorofluoromethane
VJ5529-ICV5529	MSVOA	J0981915.D	Dibromofluoromethane, Vinyl Chloride
VJ5530-CC5529	MSVOA	J0981914.D	Carbon Tetrachloride, Ethyl Alcohol, Trichlorofluoromethane
VJ5531-BS	MSVOA	J0981918.D	Carbon Tetrachloride, Ethyl Alcohol, Trichlorofluoromethane
VJ5532-BS	MSVOA	J0981949.D	Carbon Tetrachloride, Ethyl Alcohol, Trichlorofluoromethane
VJ5532-CC5529	MSVOA	J0981946.D	1,2-Dichlorotrifluoroethane, Carbon Tetrachloride, Ethyl Alcohol, Trichlorofluoromethane

34 Manual Integrations were found for FA39742

Summary of Hits

Job Number: FA39742
Account: Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, Humacao, PR
Collected: 12/14/16 thru 12/16/16

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
FA39742-1	**S-43S**					
Benzene		0.71 J	1.0	0.20	ug/l	SW846 8260C
Chlorobenzene		9.5	1.0	0.20	ug/l	SW846 8260C
Cyclohexane		4.9	1.0	0.26	ug/l	SW846 8260C
Freon 113		0.37 J	1.0	0.32	ug/l	SW846 8260C
Isopropylbenzene		7.4	1.0	0.33	ug/l	SW846 8260C
Methyl Tert Butyl Ether		10.4	1.0	0.20	ug/l	SW846 8260C
Tert-Amyl Alcohol		6.0 J	20	6.0	ug/l	SW846 8260C
Tert-Butyl Alcohol [a]		192	20	9.1	ug/l	SW846 8260C
Tetrahydrofuran [b]		2.3 J	5.0	1.4	ug/l	SW846 8260C
Toluene		0.21 J	1.0	0.20	ug/l	SW846 8260C
FA39742-2	**S-43D**					
Benzene		0.61 J	1.0	0.20	ug/l	SW846 8260C
Chlorobenzene		5.0	1.0	0.20	ug/l	SW846 8260C
Cyclohexane		3.0	1.0	0.26	ug/l	SW846 8260C
Freon 113		3.7	1.0	0.32	ug/l	SW846 8260C
Isopropylbenzene		9.0	1.0	0.33	ug/l	SW846 8260C
Methyl Tert Butyl Ether		10.2	1.0	0.20	ug/l	SW846 8260C
Tert-Butyl Alcohol		172	20	9.1	ug/l	SW846 8260C
Tetrahydrofuran [b]		2.0 J	5.0	1.4	ug/l	SW846 8260C
Toluene		0.20 J	1.0	0.20	ug/l	SW846 8260C
FA39742-3	**FB-121516**					
No hits reported in this sample.						
FA39742-4	**EB-121516**					
No hits reported in this sample.						
FA39742-5	**TB-121516 RS**					
Toluene		0.35 J	1.0	0.20	ug/l	SW846 8260C
FA39742-6	**EB-121616**					
No hits reported in this sample.						
FA39742-7	**MW-13**					
Freon 113		0.47 J	1.0	0.32	ug/l	SW846 8260C

Summary of Hits

Job Number: FA39742
Account: Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, Humacao, PR
Collected: 12/14/16 thru 12/16/16

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
FA39742-8	**MW-7**					
Chlorobenzene		1.3	1.0	0.20	ug/l	SW846 8260C
1,2-Dichlorobenzene		7.6	1.0	0.27	ug/l	SW846 8260C
1,3-Dichlorobenzene		0.27 J	1.0	0.24	ug/l	SW846 8260C
1,4-Dichlorobenzene		1.3	1.0	0.39	ug/l	SW846 8260C
cis-1,2-Dichloroethylene		0.99 J	1.0	0.31	ug/l	SW846 8260C
Ethylbenzene		1.1	1.0	0.25	ug/l	SW846 8260C
Methyl Tert Butyl Ether		0.34 J	1.0	0.20	ug/l	SW846 8260C
Trichloroethylene		0.72 J	1.0	0.27	ug/l	SW846 8260C
m,p-Xylene		0.71 J	2.0	0.30	ug/l	SW846 8260C
FA39742-9	**TB121416 RS**					
Toluene		0.33 J	1.0	0.20	ug/l	SW846 8260C
FA39742-10	**S-42S**					
Chlorobenzene		0.28 J	1.0	0.20	ug/l	SW846 8260C
Cyclohexane		0.47 J	1.0	0.26	ug/l	SW846 8260C
Freon 113		4.8	1.0	0.32	ug/l	SW846 8260C
Methyl Tert Butyl Ether		1.4	1.0	0.20	ug/l	SW846 8260C
FA39742-11	**S-42D**					
Chlorobenzene		0.27 J	1.0	0.20	ug/l	SW846 8260C
Cyclohexane		0.48 J	1.0	0.26	ug/l	SW846 8260C
trans-1,2-Dichloroethylene		0.39 J	1.0	0.33	ug/l	SW846 8260C
Freon 113		26.8	1.0	0.32	ug/l	SW846 8260C
Methyl Tert Butyl Ether		0.78 J	1.0	0.20	ug/l	SW846 8260C
FA39742-12	**TB121516 NR**					
Toluene		0.25 J	1.0	0.20	ug/l	SW846 8260C
FA39742-13	**MW-22S**					
No hits reported in this sample.						
FA39742-14	**TB121416 NRB**					
Toluene		0.50 J	1.0	0.20	ug/l	SW846 8260C

Summary of Hits

Job Number: FA39742
Account: Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, Humacao, PR
Collected: 12/14/16 thru 12/16/16

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
FA39742-15	**FB121416**					
No hits reported in this sample.						
FA39742-16	**S-31R (2)**					
Benzene		2.7	1.0	0.20	ug/l	SW846 8260C
Ethylbenzene [c]		3340	50	13	ug/l	SW846 8260C
Isopropylbenzene		58.7	1.0	0.33	ug/l	SW846 8260C
Methyl Tert Butyl Ether		4.6	1.0	0.20	ug/l	SW846 8260C
Tert-Butyl Alcohol [a]		57.2	20	9.1	ug/l	SW846 8260C
Toluene		0.91 J	1.0	0.20	ug/l	SW846 8260C
m,p-Xylene [c]		5960	100	15	ug/l	SW846 8260C
o-Xylene		0.46 J	1.0	0.26	ug/l	SW846 8260C
FA39742-17	**TB121616 NRA**					
Toluene		0.33 J	1.0	0.20	ug/l	SW846 8260C

(a) Associated BS recovery outside control limits.
(b) Associated calibration passes using linear regression. Reprocessed low standard outside 70-130% method limits.
(c) Sample re-analyzed beyond hold time; reported results are considered minimum values.

Sample Results

Report of Analysis

SGS Accutest

Report of Analysis

Client Sample ID:	S-43S		
Lab Sample ID:	FA39742-1	**Date Sampled:**	12/15/16
Matrix:	AQ - Ground Water	**Date Received:**	12/17/16
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	BMSMC, Building 5 Area, Humacao, PR		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I44601.D	1	12/29/16	WV	n/a	n/a	VI1227
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	0.71	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	ND	2.0	0.23	ug/l	
56-23-5	Carbon Tetrachloride	ND	1.0	0.30	ug/l	
108-90-7	Chlorobenzene	9.5	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	4.9	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	0.37	1.0	0.32	ug/l	J
591-78-6	2-Hexanone	ND	10	2.0	ug/l	
98-82-8	Isopropylbenzene	7.4	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:	S-43S		
Lab Sample ID:	FA39742-1	**Date Sampled:**	12/15/16
Matrix:	AQ - Ground Water	**Date Received:**	12/17/16
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	BMSMC, Building 5 Area, Humacao, PR		

VOA TCL List (SOM02.0)

CAS No.	Compound	Result	RL	MDL	Units	Q
99-87-6	p-Isopropyltoluene	ND	1.0	0.28	ug/l	
79-20-9	Methyl Acetate	ND	20	5.0	ug/l	
74-83-9	Methyl Bromide	ND	2.0	0.50	ug/l	
74-87-3	Methyl Chloride	ND	2.0	0.50	ug/l	
108-87-2	Methylcyclohexane	ND	1.0	0.23	ug/l	
75-09-2	Methylene Chloride	ND	5.0	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	1.4	ug/l	
1634-04-4	Methyl Tert Butyl Ether	10.4	1.0	0.20	ug/l	
100-42-5	Styrene	ND	1.0	0.24	ug/l	
75-85-4	Tert-Amyl Alcohol	6.0	20	6.0	ug/l	J
75-65-0	Tert-Butyl Alcohol [a]	192	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 [b]	2.3	5.0	1.4	ug/l	J
108-88-3	Toluene	0.21	1.0	0.20	ug/l	J
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 [a]	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	99%		83-118%
17060-07-0	1,2-Dichloroethane-D4	106%		79-125%
2037-26-5	Toluene-D8	99%		85-112%
460-00-4	4-Bromofluorobenzene	100%		83-118%

(a) Associated BS recovery outside control limits.
(b) Associated calibration passes using linear regression. Reprocessed low standard outside 70-130% method limits.

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

SGS Accutest

Report of Analysis

Client Sample ID:	S-43D		
Lab Sample ID:	FA39742-2	**Date Sampled:**	12/15/16
Matrix:	AQ - Ground Water	**Date Received:**	12/17/16
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	BMSMC, Building 5 Area, Humacao, PR		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I44549.D	1	12/28/16	WV	n/a	n/a	VI1223
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	0.61	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	ND	2.0	0.23	ug/l	
56-23-5	Carbon Tetrachloride	ND	1.0	0.30	ug/l	
108-90-7	Chlorobenzene	5.0	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	3.0	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 [a]	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	3.7	1.0	0.32	ug/l	
591-78-6	2-Hexanone	ND	10	2.0	ug/l	
98-82-8	Isopropylbenzene	9.0	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:	S-43D		
Lab Sample ID:	FA39742-2	**Date Sampled:**	12/15/16
Matrix:	AQ - Ground Water	**Date Received:**	12/17/16
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	BMSMC, Building 5 Area, Humacao, PR		

VOA TCL List (SOM02.0)

CAS No.	Compound	Result	RL	MDL	Units	Q
99-87-6	p-Isopropyltoluene	ND	1.0	0.28	ug/l	
79-20-9	Methyl Acetate	ND	20	5.0	ug/l	
74-83-9	Methyl Bromide	ND	2.0	0.50	ug/l	
74-87-3	Methyl Chloride	ND	2.0	0.50	ug/l	
108-87-2	Methylcyclohexane	ND	1.0	0.23	ug/l	
75-09-2	Methylene Chloride	ND	5.0	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	1.4	ug/l	
1634-04-4	Methyl Tert Butyl Ether	10.2	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	172	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 [b]	2.0	5.0	1.4	ug/l	J
108-88-3	Toluene	0.20	1.0	0.20	ug/l	J
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	98%		83-118%
17060-07-0	1,2-Dichloroethane-D4	102%		79-125%
2037-26-5	Toluene-D8	99%		85-112%
460-00-4	4-Bromofluorobenzene	97%		83-118%

(a) Associated CCV outside control limits.
(b) Associated calibration passes using linear regression. Reprocessed low standard outside 70-130% method limits.

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

SGS Accutest

Report of Analysis

Client Sample ID:	FB-121516		
Lab Sample ID:	FA39742-3	**Date Sampled:**	12/15/16
Matrix:	AQ - Field Blank Water	**Date Received:**	12/17/16
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	BMSMC, Building 5 Area, Humacao, PR		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I44550.D	1	12/28/16	WV	n/a	n/a	VI1223
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 [a]	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:	FB-121516		
Lab Sample ID:	FA39742-3	**Date Sampled:**	12/15/16
Matrix:	AQ - Field Blank Water	**Date Received:**	12/17/16
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	BMSMC, Building 5 Area, Humacao, PR		

VOA TCL List (SOM02.0)

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

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

(a) Associated CCV outside control limits.

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

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

SGS Accutest

Report of Analysis

Client Sample ID:	EB-121516		
Lab Sample ID:	FA39742-4	**Date Sampled:**	12/15/16
Matrix:	AQ - Equipment Blank	**Date Received:**	12/17/16
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	BMSMC, Building 5 Area, Humacao, PR		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I44551.D	1	12/28/16	WV	n/a	n/a	VI1223
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 [a]	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:	EB-121516		
Lab Sample ID:	FA39742-4	**Date Sampled:**	12/15/16
Matrix:	AQ - Equipment Blank	**Date Received:**	12/17/16
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	BMSMC, Building 5 Area, Humacao, PR		

VOA TCL List (SOM02.0)

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

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	97%		83-118%
17060-07-0	1,2-Dichloroethane-D4	107%		79-125%
2037-26-5	Toluene-D8	103%		85-112%
460-00-4	4-Bromofluorobenzene	101%		83-118%

(a) Associated CCV outside control limits.

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

SGS Accutest

Report of Analysis

Client Sample ID:	TB-121516 RS		
Lab Sample ID:	FA39742-5	**Date Sampled:**	12/15/16
Matrix:	AQ - Trip Blank Water	**Date Received:**	12/17/16
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	BMSMC, Building 5 Area, Humacao, PR		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I44552.D	1	12/28/16	WV	n/a	n/a	VI1223
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 [a]	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:	TB-121516 RS		
Lab Sample ID:	FA39742-5	**Date Sampled:**	12/15/16
Matrix:	AQ - Trip Blank Water	**Date Received:**	12/17/16
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	BMSMC, Building 5 Area, Humacao, PR		

VOA TCL List (SOM02.0)

CAS No.	Compound	Result	RL	MDL	Units	Q
99-87-6	p-Isopropyltoluene	ND	1.0	0.28	ug/l	
79-20-9	Methyl Acetate	ND	20	5.0	ug/l	
74-83-9	Methyl Bromide	ND	2.0	0.50	ug/l	
74-87-3	Methyl Chloride	ND	2.0	0.50	ug/l	
108-87-2	Methylcyclohexane	ND	1.0	0.23	ug/l	
75-09-2	Methylene Chloride	ND	5.0	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	1.4	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.20	ug/l	
100-42-5	Styrene	ND	1.0	0.24	ug/l	
75-85-4	Tert-Amyl Alcohol	ND	20	6.0	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	20	9.1	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.33	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.30	ug/l	
109-99-9	Tetrahydrofuran	ND	5.0	1.4	ug/l	
108-88-3	Toluene	0.35	1.0	0.20	ug/l	J
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	98%		83-118%
17060-07-0	1,2-Dichloroethane-D4	106%		79-125%
2037-26-5	Toluene-D8	104%		85-112%
460-00-4	4-Bromofluorobenzene	96%		83-118%

(a) Associated CCV outside control limits.

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

SGS Accutest

Report of Analysis

Client Sample ID:	EB-121616		
Lab Sample ID:	FA39742-6	**Date Sampled:**	12/16/16
Matrix:	AQ - Equipment Blank	**Date Received:**	12/17/16
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	BMSMC, Building 5 Area, Humacao, PR		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I44673.D	1	12/30/16	WV	n/a	n/a	VI1230
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:	EB-121616		
Lab Sample ID:	FA39742-6	**Date Sampled:**	12/16/16
Matrix:	AQ - Equipment Blank	**Date Received:**	12/17/16
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	BMSMC, Building 5 Area, Humacao, PR		

VOA TCL List (SOM02.0)

CAS No.	Compound	Result	RL	MDL	Units	Q
99-87-6	p-Isopropyltoluene	ND	1.0	0.28	ug/l	
79-20-9	Methyl Acetate	ND	20	5.0	ug/l	
74-83-9	Methyl Bromide	ND	2.0	0.50	ug/l	
74-87-3	Methyl Chloride	ND	2.0	0.50	ug/l	
108-87-2	Methylcyclohexane	ND	1.0	0.23	ug/l	
75-09-2	Methylene Chloride	ND	5.0	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	1.4	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.20	ug/l	
100-42-5	Styrene	ND	1.0	0.24	ug/l	
75-85-4	Tert-Amyl Alcohol	ND	20	6.0	ug/l	
75-65-0	Tert-Butyl Alcohol [a]	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 [a]	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	102%		83-118%

(a) Associated BS recovery outside control limits.

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

SGS Accutest

Report of Analysis

Client Sample ID:	MW-13		
Lab Sample ID:	FA39742-7	**Date Sampled:**	12/14/16
Matrix:	AQ - Ground Water	**Date Received:**	12/17/16
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	BMSMC, Building 5 Area, Humacao, PR		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I44553.D	1	12/28/16	WV	n/a	n/a	VI1223
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 [a]	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	0.47	1.0	0.32	ug/l	J
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:	MW-13		
Lab Sample ID:	FA39742-7	**Date Sampled:**	12/14/16
Matrix:	AQ - Ground Water	**Date Received:**	12/17/16
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	BMSMC, Building 5 Area, Humacao, PR		

VOA TCL List (SOM02.0)

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

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	95%		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	99%		83-118%

(a) Associated CCV outside control limits.

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

SGS Accutest

Report of Analysis

Client Sample ID:	MW-7		
Lab Sample ID:	FA39742-8	**Date Sampled:**	12/14/16
Matrix:	AQ - Ground Water	**Date Received:**	12/17/16
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	BMSMC, Building 5 Area, Humacao, PR		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I44554.D	1	12/28/16	WV	n/a	n/a	VI1223
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	1.3	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 [a]	ND	2.0	0.50	ug/l	
95-50-1	1,2-Dichlorobenzene	7.6	1.0	0.27	ug/l	
541-73-1	1,3-Dichlorobenzene	0.27	1.0	0.24	ug/l	J
106-46-7	1,4-Dichlorobenzene	1.3	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	0.99	1.0	0.31	ug/l	J
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	1.1	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 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:	MW-7		
Lab Sample ID:	FA39742-8	**Date Sampled:**	12/14/16
Matrix:	AQ - Ground Water	**Date Received:**	12/17/16
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	BMSMC, Building 5 Area, Humacao, PR		

VOA TCL List (SOM02.0)

CAS No.	Compound	Result	RL	MDL	Units	Q
99-87-6	p-Isopropyltoluene	ND	1.0	0.28	ug/l	
79-20-9	Methyl Acetate	ND	20	5.0	ug/l	
74-83-9	Methyl Bromide	ND	2.0	0.50	ug/l	
74-87-3	Methyl Chloride	ND	2.0	0.50	ug/l	
108-87-2	Methylcyclohexane	ND	1.0	0.23	ug/l	
75-09-2	Methylene Chloride	ND	5.0	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	1.4	ug/l	
1634-04-4	Methyl Tert Butyl Ether	0.34	1.0	0.20	ug/l	J
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	0.72	1.0	0.27	ug/l	J
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	0.71	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	99%		83-118%
17060-07-0	1,2-Dichloroethane-D4	110%		79-125%
2037-26-5	Toluene-D8	103%		85-112%
460-00-4	4-Bromofluorobenzene	99%		83-118%

(a) Associated CCV outside control limits.

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

SGS Accutest

Report of Analysis

Client Sample ID:	TB121416 RS		
Lab Sample ID:	FA39742-9	**Date Sampled:**	12/14/16
Matrix:	AQ - Trip Blank Water	**Date Received:**	12/17/16
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	BMSMC, Building 5 Area, Humacao, PR		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I44555.D	1	12/28/16	WV	n/a	n/a	VI1223
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 [a]	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:	TB121416 RS		
Lab Sample ID:	FA39742-9	**Date Sampled:**	12/14/16
Matrix:	AQ - Trip Blank Water	**Date Received:**	12/17/16
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	BMSMC, Building 5 Area, Humacao, PR		

VOA TCL List (SOM02.0)

CAS No.	Compound	Result	RL	MDL	Units	Q
99-87-6	p-Isopropyltoluene	ND	1.0	0.28	ug/l	
79-20-9	Methyl Acetate	ND	20	5.0	ug/l	
74-83-9	Methyl Bromide	ND	2.0	0.50	ug/l	
74-87-3	Methyl Chloride	ND	2.0	0.50	ug/l	
108-87-2	Methylcyclohexane	ND	1.0	0.23	ug/l	
75-09-2	Methylene Chloride	ND	5.0	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	1.4	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.20	ug/l	
100-42-5	Styrene	ND	1.0	0.24	ug/l	
75-85-4	Tert-Amyl Alcohol	ND	20	6.0	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	20	9.1	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.33	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.30	ug/l	
109-99-9	Tetrahydrofuran	ND	5.0	1.4	ug/l	
108-88-3	Toluene	0.33	1.0	0.20	ug/l	J
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	99%		83-118%
17060-07-0	1,2-Dichloroethane-D4	106%		79-125%
2037-26-5	Toluene-D8	104%		85-112%
460-00-4	4-Bromofluorobenzene	95%		83-118%

(a) Associated CCV outside control limits.

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

SGS Accutest

Report of Analysis

Client Sample ID:	S-42S		
Lab Sample ID:	FA39742-10	**Date Sampled:**	12/15/16
Matrix:	AQ - Ground Water	**Date Received:**	12/17/16
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	BMSMC, Building 5 Area, Humacao, PR		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I44556.D	1	12/28/16	WV	n/a	n/a	VI1223
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List (SOM02.0)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	25	10	ug/l	
71-43-2	Benzene	ND	1.0	0.20	ug/l	
100-44-7	Benzyl Chloride	ND	2.0	0.44	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.42	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.24	ug/l	
75-25-2	Bromoform	ND	1.0	0.46	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.6	ug/l	
75-15-0	Carbon Disulfide	ND	2.0	0.23	ug/l	
56-23-5	Carbon Tetrachloride	ND	1.0	0.30	ug/l	
108-90-7	Chlorobenzene	0.28	1.0	0.20	ug/l	J
75-00-3	Chloroethane	ND	2.0	0.63	ug/l	
67-66-3	Chloroform	ND	1.0	0.30	ug/l	
110-82-7	Cyclohexane	0.47	1.0	0.26	ug/l	J
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 [a]	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	4.8	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:	S-42S		
Lab Sample ID:	FA39742-10	**Date Sampled:**	12/15/16
Matrix:	AQ - Ground Water	**Date Received:**	12/17/16
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	BMSMC, Building 5 Area, Humacao, PR		

VOA TCL List (SOM02.0)

CAS No.	Compound	Result	RL	MDL	Units	Q
99-87-6	p-Isopropyltoluene	ND	1.0	0.28	ug/l	
79-20-9	Methyl Acetate	ND	20	5.0	ug/l	
74-83-9	Methyl Bromide	ND	2.0	0.50	ug/l	
74-87-3	Methyl Chloride	ND	2.0	0.50	ug/l	
108-87-2	Methylcyclohexane	ND	1.0	0.23	ug/l	
75-09-2	Methylene Chloride	ND	5.0	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	1.4	ug/l	
1634-04-4	Methyl Tert Butyl Ether	1.4	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	99%		83-118%
17060-07-0	1,2-Dichloroethane-D4	108%		79-125%
2037-26-5	Toluene-D8	106%		85-112%
460-00-4	4-Bromofluorobenzene	100%		83-118%

(a) Associated CCV outside control limits.

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

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

SGS Accutest

Report of Analysis

Client Sample ID:	S-42D		
Lab Sample ID:	FA39742-11	**Date Sampled:**	12/15/16
Matrix:	AQ - Ground Water	**Date Received:**	12/17/16
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	BMSMC, Building 5 Area, Humacao, PR		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I44602.D	1	12/29/16	WV	n/a	n/a	VI1227
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List (SOM02.0)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	25	10	ug/l	
71-43-2	Benzene	ND	1.0	0.20	ug/l	
100-44-7	Benzyl Chloride	ND	2.0	0.44	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.42	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.24	ug/l	
75-25-2	Bromoform	ND	1.0	0.46	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.6	ug/l	
75-15-0	Carbon Disulfide	ND	2.0	0.23	ug/l	
56-23-5	Carbon Tetrachloride	ND	1.0	0.30	ug/l	
108-90-7	Chlorobenzene	0.27	1.0	0.20	ug/l	J
75-00-3	Chloroethane	ND	2.0	0.63	ug/l	
67-66-3	Chloroform	ND	1.0	0.30	ug/l	
110-82-7	Cyclohexane	0.48	1.0	0.26	ug/l	J
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	0.39	1.0	0.33	ug/l	J
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	26.8	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:	S-42D		
Lab Sample ID:	FA39742-11	**Date Sampled:**	12/15/16
Matrix:	AQ - Ground Water	**Date Received:**	12/17/16
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	BMSMC, Building 5 Area, Humacao, PR		

VOA TCL List (SOM02.0)

CAS No.	Compound	Result	RL	MDL	Units	Q
99-87-6	p-Isopropyltoluene	ND	1.0	0.28	ug/l	
79-20-9	Methyl Acetate	ND	20	5.0	ug/l	
74-83-9	Methyl Bromide	ND	2.0	0.50	ug/l	
74-87-3	Methyl Chloride	ND	2.0	0.50	ug/l	
108-87-2	Methylcyclohexane	ND	1.0	0.23	ug/l	
75-09-2	Methylene Chloride	ND	5.0	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	1.4	ug/l	
1634-04-4	Methyl Tert Butyl Ether	0.78	1.0	0.20	ug/l	J
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 [a]	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 [a]	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	99%		83-118%
17060-07-0	1,2-Dichloroethane-D4	109%		79-125%
2037-26-5	Toluene-D8	104%		85-112%
460-00-4	4-Bromofluorobenzene	100%		83-118%

(a) Associated BS recovery outside control limits.

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

SGS Accutest

Report of Analysis

Client Sample ID:	TB121516 NR		
Lab Sample ID:	FA39742-12	**Date Sampled:**	12/15/16
Matrix:	AQ - Trip Blank Water	**Date Received:**	12/17/16
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	BMSMC, Building 5 Area, Humacao, PR		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I44603.D	1	12/29/16	WV	n/a	n/a	VI1227
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:	TB121516 NR		
Lab Sample ID:	FA39742-12	**Date Sampled:**	12/15/16
Matrix:	AQ - Trip Blank Water	**Date Received:**	12/17/16
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	BMSMC, Building 5 Area, Humacao, PR		

VOA TCL List (SOM02.0)

CAS No.	Compound	Result	RL	MDL	Units	Q
99-87-6	p-Isopropyltoluene	ND	1.0	0.28	ug/l	
79-20-9	Methyl Acetate	ND	20	5.0	ug/l	
74-83-9	Methyl Bromide	ND	2.0	0.50	ug/l	
74-87-3	Methyl Chloride	ND	2.0	0.50	ug/l	
108-87-2	Methylcyclohexane	ND	1.0	0.23	ug/l	
75-09-2	Methylene Chloride	ND	5.0	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	1.4	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.20	ug/l	
100-42-5	Styrene	ND	1.0	0.24	ug/l	
75-85-4	Tert-Amyl Alcohol	ND	20	6.0	ug/l	
75-65-0	Tert-Butyl Alcohol [a]	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	0.25	1.0	0.20	ug/l	J
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 [a]	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	98%		83-118%
17060-07-0	1,2-Dichloroethane-D4	108%		79-125%
2037-26-5	Toluene-D8	104%		85-112%
460-00-4	4-Bromofluorobenzene	101%		83-118%

(a) Associated BS recovery outside control limits.

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

SGS Accutest

Report of Analysis

Client Sample ID:	MW-22S		
Lab Sample ID:	FA39742-13	**Date Sampled:**	12/14/16
Matrix:	AQ - Ground Water	**Date Received:**	12/17/16
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	BMSMC, Building 5 Area, Humacao, PR		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I44557.D	1	12/28/16	WV	n/a	n/a	VI1223
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 [a]	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:	MW-22S		
Lab Sample ID:	FA39742-13	**Date Sampled:**	12/14/16
Matrix:	AQ - Ground Water	**Date Received:**	12/17/16
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	BMSMC, Building 5 Area, Humacao, PR		

VOA TCL List (SOM02.0)

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

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	99%		83-118%
17060-07-0	1,2-Dichloroethane-D4	106%		79-125%
2037-26-5	Toluene-D8	102%		85-112%
460-00-4	4-Bromofluorobenzene	96%		83-118%

(a) Associated CCV outside control limits.

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

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

SGS Accutest

Report of Analysis

Client Sample ID:	TB121416 NRB		
Lab Sample ID:	FA39742-14	**Date Sampled:**	12/14/16
Matrix:	AQ - Trip Blank Water	**Date Received:**	12/17/16
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	BMSMC, Building 5 Area, Humacao, PR		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I44558.D	1	12/28/16	WV	n/a	n/a	VI1223
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 [a]	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:	TB121416 NRB		
Lab Sample ID:	FA39742-14	**Date Sampled:**	12/14/16
Matrix:	AQ - Trip Blank Water	**Date Received:**	12/17/16
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	BMSMC, Building 5 Area, Humacao, PR		

VOA TCL List (SOM02.0)

CAS No.	Compound	Result	RL	MDL	Units	Q
99-87-6	p-Isopropyltoluene	ND	1.0	0.28	ug/l	
79-20-9	Methyl Acetate	ND	20	5.0	ug/l	
74-83-9	Methyl Bromide	ND	2.0	0.50	ug/l	
74-87-3	Methyl Chloride	ND	2.0	0.50	ug/l	
108-87-2	Methylcyclohexane	ND	1.0	0.23	ug/l	
75-09-2	Methylene Chloride	ND	5.0	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	1.4	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.20	ug/l	
100-42-5	Styrene	ND	1.0	0.24	ug/l	
75-85-4	Tert-Amyl Alcohol	ND	20	6.0	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	20	9.1	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.33	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.30	ug/l	
109-99-9	Tetrahydrofuran	ND	5.0	1.4	ug/l	
108-88-3	Toluene	0.50	1.0	0.20	ug/l	J
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	98%		83-118%
17060-07-0	1,2-Dichloroethane-D4	107%		79-125%
2037-26-5	Toluene-D8	103%		85-112%
460-00-4	4-Bromofluorobenzene	98%		83-118%

(a) Associated CCV outside control limits.

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

SGS Accutest

Report of Analysis

Client Sample ID:	FB121416		
Lab Sample ID:	FA39742-15	**Date Sampled:**	12/14/16
Matrix:	AQ - Field Blank Water	**Date Received:**	12/17/16
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	BMSMC, Building 5 Area, Humacao, PR		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I44559.D	1	12/28/16	WV	n/a	n/a	VI1223
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 [a]	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:	FB121416		
Lab Sample ID:	FA39742-15	**Date Sampled:**	12/14/16
Matrix:	AQ - Field Blank Water	**Date Received:**	12/17/16
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	BMSMC, Building 5 Area, Humacao, PR		

VOA TCL List (SOM02.0)

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

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	98%		83-118%
17060-07-0	1,2-Dichloroethane-D4	107%		79-125%
2037-26-5	Toluene-D8	104%		85-112%
460-00-4	4-Bromofluorobenzene	98%		83-118%

(a) Associated CCV outside control limits.

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

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

SGS Accutest

Report of Analysis

Client Sample ID:	S-31R (2)		
Lab Sample ID:	FA39742-16	**Date Sampled:**	12/16/16
Matrix:	AQ - Ground Water	**Date Received:**	12/17/16
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	BMSMC, Building 5 Area, Humacao, PR		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I44674.D	1	12/30/16	WV	n/a	n/a	VI1230
Run #2 [a]	J0981938.D	50	01/03/17	DP	n/a	n/a	VJ5531

	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	2.7	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	3340 [b]	50	13	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	58.7	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:	S-31R (2)		
Lab Sample ID:	FA39742-16	**Date Sampled:**	12/16/16
Matrix:	AQ - Ground Water	**Date Received:**	12/17/16
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	BMSMC, Building 5 Area, Humacao, PR		

VOA TCL List (SOM02.0)

CAS No.	Compound	Result	RL	MDL	Units	Q
99-87-6	p-Isopropyltoluene	ND	1.0	0.28	ug/l	
79-20-9	Methyl Acetate	ND	20	5.0	ug/l	
74-83-9	Methyl Bromide	ND	2.0	0.50	ug/l	
74-87-3	Methyl Chloride	ND	2.0	0.50	ug/l	
108-87-2	Methylcyclohexane	ND	1.0	0.23	ug/l	
75-09-2	Methylene Chloride	ND	5.0	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	1.4	ug/l	
1634-04-4	Methyl Tert Butyl Ether	4.6	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 [c]	57.2	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	0.91	1.0	0.20	ug/l	J
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 [c]	ND	1.0	0.20	ug/l	
75-01-4	Vinyl Chloride	ND	1.0	0.31	ug/l	
	m,p-Xylene	5960 [b]	100	15	ug/l	
95-47-6	o-Xylene	0.46	1.0	0.26	ug/l	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	97%	102%	83-118%
17060-07-0	1,2-Dichloroethane-D4	102%	113%	79-125%
2037-26-5	Toluene-D8	104%	102%	85-112%
460-00-4	4-Bromofluorobenzene	103%	106%	83-118%

(a) Sample re-analyzed beyond hold time; reported results are considered minimum values.
(b) Result is from Run# 2
(c) Associated BS recovery outside control limits.

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

SGS Accutest

Report of Analysis

Client Sample ID:	TB121616 NRA		
Lab Sample ID:	FA39742-17	**Date Sampled:**	12/16/16
Matrix:	AQ - Trip Blank Water	**Date Received:**	12/17/16
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	BMSMC, Building 5 Area, Humacao, PR		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I44675.D	1	12/30/16	WV	n/a	n/a	VI1230
Run #2 [a]	J0981950.D	1	01/04/17	DP	n/a	n/a	VJ5532

	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	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 [b]	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:	TB121616 NRA		
Lab Sample ID:	FA39742-17	**Date Sampled:**	12/16/16
Matrix:	AQ - Trip Blank Water	**Date Received:**	12/17/16
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	BMSMC, Building 5 Area, Humacao, PR		

VOA TCL List (SOM02.0)

CAS No.	Compound	Result	RL	MDL	Units	Q
99-87-6	p-Isopropyltoluene	ND	1.0	0.28	ug/l	
79-20-9	Methyl Acetate	ND	20	5.0	ug/l	
74-83-9	Methyl Bromide	ND	2.0	0.50	ug/l	
74-87-3	Methyl Chloride	ND	2.0	0.50	ug/l	
108-87-2	Methylcyclohexane	ND	1.0	0.23	ug/l	
75-09-2	Methylene Chloride	ND	5.0	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	1.4	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.20	ug/l	
100-42-5	Styrene	ND	1.0	0.24	ug/l	
75-85-4	Tert-Amyl Alcohol	ND	20	6.0	ug/l	
75-65-0	Tert-Butyl Alcohol [c]	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	0.33	1.0	0.20	ug/l	J
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 [c]	ND	1.0	0.20	ug/l	
75-01-4	Vinyl Chloride	ND	1.0	0.31	ug/l	
	m,p-Xylene	ND [b]	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	96%	102%	83-118%
17060-07-0	1,2-Dichloroethane-D4	101%	110%	79-125%
2037-26-5	Toluene-D8	102%	100%	85-112%
460-00-4	4-Bromofluorobenzene	97%	107%	83-118%

(a) Sample analyzed beyond hold time; reported results are considered minimum values.
(b) Result is from Run# 2
(c) Associated BS recovery outside control limits.

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

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

ACCUTEST LABORATORIES

FL

CHAIN OF CUSTODY

FA39742 PAGE 1 OF 2

4405 Vineland Road, Suite C-15, Orlando, Florida 32811
TEL: 407-425-6700 FAX: 407-425-0707
www.accutest.com

FED-EX Tracking # 7779 7324 5825
Accutest Quote #
Bottle Order Control #
Accutest Job #

Client / Reporting Information

Company Name: Anderson Mulholland & Associates
Street Address: 2700 Westchester Avenue, Suite 417
City: Purchase State: NY Zip: 10577
Project Contact: Terry Taylor E-mail:
Phone #: 914-251-0400 Fax #:
Sampler(s) Name(s): Phone #:

Project Information

Project Name: 4th Q 2016 Groundwater Sampling - Onsite Wells
Street:
City: Humacao State: PR
Project #:
Client Purchase Order #:
Project Manager: Terry Taylor

Billing Information (if different from Report to)

Company Name:
Street Address:
City State Zip
Attention:

Requested Analysis (see TEST CODE sheet)

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

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	V8260TCL20	VMS+124TMB	VMS+BNZCHL	VMS+PTOLU	VMS+TAA	VMS+TBA	VMS+THF	LAB USE ONLY
1	S-43S		12/15/16	1225	JD	GW	6	✓								✓	✓	✓	✓	✓	✓	✓	
2	S-43D		12/15/16	1440	JD	GW	6	✓								✓	✓	✓	✓	✓	✓	✓	
3	FB-121516		12/15/16	1507	JD	FB	6	✓								✓	✓	✓	✓	✓	✓	✓	
4	EB-12/15/16		12/15/16	1007	RS	EB	3	3								X	X	X	X	X	X	X	
5	TB-12/15/16 RS		12-15-16	1440		TB	2	2								X	X	X	X	X	X	X	
6	EB-12/16/16		12/16/16	1022	RS	EB	3	3								X	X	X	X	X	X	X	
7	MW-13		12-14-16	1154	JD	GW	3	3								X	X	X	X	X	X	X	
8	MW-7		12-14-16	1341	JD	GW	3	3								X	X	X	X	X	X	X	
9	TB 121416 RS		12-14-16	1341		TB	2	2								X	X	X	X	X	X	X	

Turnaround Time (Business days)

- [X] Std. 15 Business Days
- [ ] Std. 10 Business Days (by Contract only)
- [ ] 10 Day *RUSH*
- [ ] 5 Day *RUSH*
- [ ] 3 Day *EMERGENCY*
- [ ] 2 Day *EMERGENCY*
- [ ] 1 Day *EMERGENCY*

Emergency & Rush T/A data available VIA Lablink

Approved By (Accutest PM): / Date:

Data Deliverable Information

- [ ] Commercial "A" (Level 1)
- [ ] Commercial "B" (Level 2)
- [X] FULLT1 (Level 3+4)
- [ ] NJ Reduced
- [ ] Commercial "C"
- [ ] 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

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	12-16-16 1200	1 Fed Ex	2 Fx	12-17-16	2 J. Barnes (AISR) 10:15
3		3	4		4
5		5			

Custody Seal # 141 [ ] Intact [ ] Not intact

Preserved where applicable [ ]

On Ice [ ]

Cooler Temp. 3.2

5.1 5

FA39742: Chain of Custody
Page 1 of 4

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CHAIN OF CUSTODY

4405 Vineland Road, Suite C-15, Orlando, Florida 32811
TEL: 407-425-6700 FAX: 407-425-0707
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FA39742 PAGE 2 OF 2

FEDEX Tracking # 7779 7324 5825 | Bottle Order Control # | Accutest Quote # | Accutest Job #

Client / Reporting Information

Company Name: Anderson Mulholland & Associates
Street Address: 2700 Westchester Avenue, Suite 417
City: Purchase State: NY Zip: 10577
Project Contact: Terry Taylor E-mail:
Phone #: 914-251-0400 Fax #:
Sampler(s) Name(s): Phone #:

Project Information

Project Name: 4th Q 2016 Groundwater Sampling - Onsite Wells
Street:
City: Humacao State: PR
Project #:
Client Purchase Order #:
Project Manager: Terry Taylor

Billing Information (if different from Report to)

Company Name:
Street Address:
City State Zip
Attention:

Requested Analysis (see TEST CODE sheet)

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

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	V8260TCL20	VMS+124TMB	VMS+BNZCHL	VMS+IPTOLU	VMS+TAA	VMS+TBA	VMS+THF						LAB USE ONLY
10	S-42S		12/15/16	12:57	NR	GW	3	3								X	X	X	X	X	X	X						
11	S-42D		12/15/16	14:53	NR	GW	3	3								X	X	X	X	X	X	X						
12	TB121516 NR		12-15-16	1453		TB	2	2								X	X	X	X	X	X	X						
13	MW-22S		12-14-16	1705	NR	GW	3	3								X	X	X	X	X	X	X						
14	TB121416NRB		12-14-16	1705		TB	2	2								X	X	X	X	X	X	X						
15	FB121416		12-14-16	1574	NR	FB	3	3								X	X	X	X	X	X	X						
	S-31R(2)		12-16-16	1203	NR	GW	3	3								X	X	X	X	X	X	X						
16	S-31R(2)MS		12-16-16	1225	NR	GW	3	3								X	X	X	X	X	X	X						
	S-31R(2)MSD		12-16-16	1243	NR	GW	3	3								X	X	X	X	X	X	X						
17	TB121616NRA		12-16-16	1243		TB	2	2								X	X	X	X	X	X	X						

Turnaround Time (Business days)

- [X] Std. 15 Business Days
- [ ] Std. 10 Business Days (by Contract only)
- [ ] 10 Day *RUSH*
- [ ] 5 Day *RUSH*
- [ ] 3 Day *EMERGENCY*
- [ ] 2 Day *EMERGENCY*
- [ ] 1 Day *EMERGENCY*

Emergency & Rush T/A data available VIA Lablink

Approved By (Accutest PM): / Date:

Data Deliverable Information

- [ ] Commercial "A" (Level 1)
- [ ] Commercial "B" (Level 2)
- [X] FULLT1 (Level 3+4)
- [ ] NJ Reduced
- [ ] Commercial "C"
- [ ] 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

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]	12-16-16 20	1 FedEX	2 FX	12-17-16	2 J. Cosel (ALSE) 10:15
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 # 64 [ ] Intact [ ] Not intact	Preserved where applicable [ ]	On Ice [ ] Cooler Temp.

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FA39742: Chain of Custody
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SGS ACCUTEST - ORLANDO SAMPLE RECEIPT CONFIRMATION

SGS ACCUTEST'S JOB NUMBER: FA 39742 CLIENT: ANDERSON M2A PROJECT: ATH O 2016

DATE/TIME RECEIVED: 12-17-16 10:15 {MM/DD/YY 24:00} NUMBER OF COOLERS RECEIVED: 1

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

AIRBILL NUMBERS: 7779 7324 5825

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_____

NUMBER OF 5035 FIELD KITS ? _____

NUMBER OF LAB FILTERED METALS ? _____

TEMPERATURE INFORMATION

- [ ] IR THERM ID 1 CORR. FACTOR -0.4
- [ ] OBSERVED TEMPS: 3.6
- [ ] CORRECTED TEMPS: 3.2 (USED FOR LIMS)

SAMPLE INFORMATION

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

{APPLICABLE TO EPA 600 SERIES OR NORTH CAROLINA ORGANICS}

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

SUMMARY OF COMMENTS:

TECHNICIAN SIGNATURE/DATE [signature] 12-19-16 REVIEWER SIGNATURE/DATE [signature] 12-19-16

NF 02/16 receipt confirmation 020116.xls

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FA39742: Chain of Custody
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ORIGIN ID:FAJA (787) 487-4290
David Lindstrand
ANDERSON MULHOLLAND & ASSOC
In Care of Bristol-Myers Squibb
State Rd #3, km 77.5
Humacao, PR 00791
UNITED STATES, US

Ship Date: 16DEC16
ActWgt: 40.00 LB
CAD: 4502055/INET3790

Dims: 14x14x24 IN

EIN/VAT:

TO Sample Receiving
SGS Accutest
4405 Vineland Rd
Ste c15
ORLANDO, FL 32811

(407) 424-6700

FedEx Express

(US)

AWB

J162016101220uv

X0 ORLA

PKG TYPE: CUSTOMER

TRK# 7779 7324 5825

Form 0430

INTL PRIORITY

REF: BMS02e_2016
DESC1:Samples\n
DESC2:
DESC3:
DESC4:
EEI: NO EEI 30.37(a)

COUNTRY MFG: PR
CARRIAGE VALUE: 5.00 USD
CUSTOMS VALUE: 5.00 USD

SIGN: David Lindstrand
T/C: O 362064236
D/T: O 362064236

The Montreal or Warsaw Convention may apply and will govern and in most cases limit the liability of Federal Express for loss or delay of or damage to your shipment. Subject to the conditions of the contract on the reverse.

After printing this label:
FEDEX AWB COPY - PLEASE PLACE BEHIND CONSIGNEE COPY
1. Fold the printed page along the horizontal line.
2. Place label in shipping pouch and affix it to your shipment.

5.1

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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: FA39742
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, Humacao, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VI1223-MB	I44537.D	1	12/28/16	WV	n/a	n/a	VI1223

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

FA39742-2, FA39742-3, FA39742-4, FA39742-5, FA39742-7, FA39742-8, FA39742-9, FA39742-10, FA39742-13, FA39742-14, FA39742-15

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: FA39742
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, Humacao, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VI1223-MB	I44537.D	1	12/28/16	WV	n/a	n/a	VI1223

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

FA39742-2, FA39742-3, FA39742-4, FA39742-5, FA39742-7, FA39742-8, FA39742-9, FA39742-10, FA39742-13, FA39742-14, FA39742-15

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

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	97%	83-118%
17060-07-0	1,2-Dichloroethane-D4	97%	79-125%
2037-26-5	Toluene-D8	100%	85-112%
460-00-4	4-Bromofluorobenzene	101%	83-118%

Method Blank Summary

Job Number: FA39742
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, Humacao, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VI1227-MB	I44594.D	1	12/29/16	WV	n/a	n/a	VI1227

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

FA39742-1, FA39742-11, FA39742-12

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: FA39742
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, Humacao, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VI1227-MB	I44594.D	1	12/29/16	WV	n/a	n/a	VI1227

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

FA39742-1, FA39742-11, FA39742-12

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

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	95%	83-118%
17060-07-0	1,2-Dichloroethane-D4	99%	79-125%
2037-26-5	Toluene-D8	99%	85-112%
460-00-4	4-Bromofluorobenzene	98%	83-118%

Method Blank Summary

Job Number: FA39742
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, Humacao, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VI1230-MB	I44651.D	1	12/30/16	WV	n/a	n/a	VI1230

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

FA39742-6, FA39742-16, FA39742-17

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: FA39742
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, Humacao, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VI1230-MB	I44651.D	1	12/30/16	WV	n/a	n/a	VI1230

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

FA39742-6, FA39742-16, FA39742-17

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

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	95%	83-118%
17060-07-0	1,2-Dichloroethane-D4	95%	79-125%
2037-26-5	Toluene-D8	100%	85-112%
460-00-4	4-Bromofluorobenzene	99%	83-118%

Method Blank Summary

Job Number: FA39742
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, Humacao, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VJ5531-MB	J0981917.D	1	01/03/17	DP	n/a	n/a	VJ5531

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

FA39742-16

CAS No.	Compound	Result	RL	MDL	Units	Q
100-41-4	Ethylbenzene	ND	1.0	0.25	ug/l	
	m,p-Xylene	ND	2.0	0.30	ug/l	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	99%	83-118%
17060-07-0	1,2-Dichloroethane-D4	108%	79-125%
2037-26-5	Toluene-D8	100%	85-112%
460-00-4	4-Bromofluorobenzene	103%	83-118%

Method Blank Summary

Job Number: FA39742
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, Humacao, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VJ5532-MB	J0981948.D	1	01/04/17	DP	n/a	n/a	VJ5532

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

FA39742-17

CAS No.	Compound	Result	RL	MDL	Units	Q
100-41-4	Ethylbenzene	ND	1.0	0.25	ug/l	
	m,p-Xylene	ND	2.0	0.30	ug/l	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	102%	83-118%
17060-07-0	1,2-Dichloroethane-D4	111%	79-125%
2037-26-5	Toluene-D8	100%	85-112%
460-00-4	4-Bromofluorobenzene	108%	83-118%

Blank Spike Summary

Job Number: FA39742
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, Humacao, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VI1223-BS [a]	I44536.D	1	12/28/16	WV	n/a	n/a	VI1223

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

FA39742-2, FA39742-3, FA39742-4, FA39742-5, FA39742-7, FA39742-8, FA39742-9, FA39742-10, FA39742-13, FA39742-14, FA39742-15

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
67-64-1	Acetone	125	130	104	50-147
71-43-2	Benzene	25	27.1	108	81-122
100-44-7	Benzyl Chloride	25	22.8	91	54-122
74-97-5	Bromochloromethane	25	24.4	98	76-123
75-27-4	Bromodichloromethane	25	26.5	106	79-123
75-25-2	Bromoform	25	21.8	87	66-123
78-93-3	2-Butanone (MEK)	125	126	101	56-143
75-15-0	Carbon Disulfide	25	22.0	88	66-148
56-23-5	Carbon Tetrachloride	25	25.7	103	76-136
108-90-7	Chlorobenzene	25	24.6	98	82-124
75-00-3	Chloroethane	25	22.0	88	62-144
67-66-3	Chloroform	25	23.5	94	80-124
110-82-7	Cyclohexane	25	23.3	93	73-138
124-48-1	Dibromochloromethane	25	22.9	92	78-122
96-12-8	1,2-Dibromo-3-chloropropane	25	18.7	75	64-123
106-93-4	1,2-Dibromoethane	25	26.1	104	75-120
75-71-8	Dichlorodifluoromethane	25	23.5	94	42-167
95-50-1	1,2-Dichlorobenzene	25	24.3	97	82-124
541-73-1	1,3-Dichlorobenzene	25	24.5	98	84-125
106-46-7	1,4-Dichlorobenzene	25	24.8	99	78-120
75-34-3	1,1-Dichloroethane	25	24.9	100	81-122
107-06-2	1,2-Dichloroethane	25	22.9	92	75-125
75-35-4	1,1-Dichloroethylene	25	22.9	92	78-137
156-59-2	cis-1,2-Dichloroethylene	25	25.3	101	78-120
156-60-5	trans-1,2-Dichloroethylene	25	24.5	98	76-127
78-87-5	1,2-Dichloropropane	25	24.4	98	76-124
10061-01-5	cis-1,3-Dichloropropene	25	23.2	93	75-118
10061-02-6	trans-1,3-Dichloropropene	25	25.2	101	80-120
100-41-4	Ethylbenzene	25	26.9	108	81-121
76-13-1	Freon 113	25	21.5	86	72-134
591-78-6	2-Hexanone	125	109	87	61-129
98-82-8	Isopropylbenzene	25	27.4	110	83-132
99-87-6	p-Isopropyltoluene	25	25.8	103	79-130
79-20-9	Methyl Acetate	125	109	87	65-126
74-83-9	Methyl Bromide	25	22.2	89	59-143
74-87-3	Methyl Chloride	25	20.2	81	50-159

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA39742
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, Humacao, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VI1223-BS [a]	I44536.D	1	12/28/16	WV	n/a	n/a	VI1223

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

FA39742-2, FA39742-3, FA39742-4, FA39742-5, FA39742-7, FA39742-8, FA39742-9, FA39742-10, FA39742-13, FA39742-14, FA39742-15

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
108-87-2	Methylcyclohexane	25	24.5	98	76-129
75-09-2	Methylene Chloride	25	22.9	92	69-135
108-10-1	4-Methyl-2-pentanone (MIBK)	125	107	86	66-122
1634-04-4	Methyl Tert Butyl Ether	25	23.1	92	72-117
100-42-5	Styrene	25	25.4	102	78-119
75-85-4	Tert-Amyl Alcohol	250	210	84	65-124
75-65-0	Tert-Butyl Alcohol	250	321	128	63-129
79-34-5	1,1,2,2-Tetrachloroethane	25	23.1	92	72-120
127-18-4	Tetrachloroethylene	25	22.6	90	76-135
109-99-9	Tetrahydrofuran	25	21.1	84	56-122
108-88-3	Toluene	25	26.8	107	80-120
87-61-6	1,2,3-Trichlorobenzene	25	26.9	108	68-131
120-82-1	1,2,4-Trichlorobenzene	25	23.3	93	73-129
71-55-6	1,1,1-Trichloroethane	25	23.6	94	75-130
79-00-5	1,1,2-Trichloroethane	25	24.7	99	76-119
79-01-6	Trichloroethylene	25	24.4	98	81-126
75-69-4	Trichlorofluoromethane	25	24.0	96	71-156
95-63-6	1,2,4-Trimethylbenzene	25	27.4	110	79-120
75-01-4	Vinyl Chloride	25	21.6	86	69-159
	m,p-Xylene	50	55.4	111	79-126
95-47-6	o-Xylene	25	26.5	106	80-127

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	98%	83-118%
17060-07-0	1,2-Dichloroethane-D4	94%	79-125%
2037-26-5	Toluene-D8	101%	85-112%
460-00-4	4-Bromofluorobenzene	98%	83-118%

(a) No MS/MSD available for this run.

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA39742
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, Humacao, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VI1227-BS [a]	I44593.D	1	12/29/16	WV	n/a	n/a	VI1227

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

FA39742-1, FA39742-11, FA39742-12

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
67-64-1	Acetone	125	165	132	50-147
71-43-2	Benzene	25	29.6	118	81-122
100-44-7	Benzyl Chloride	25	25.1	100	54-122
74-97-5	Bromochloromethane	25	26.4	106	76-123
75-27-4	Bromodichloromethane	25	28.7	115	79-123
75-25-2	Bromoform	25	21.4	86	66-123
78-93-3	2-Butanone (MEK)	125	153	122	56-143
75-15-0	Carbon Disulfide	25	21.6	86	66-148
56-23-5	Carbon Tetrachloride	25	28.0	112	76-136
108-90-7	Chlorobenzene	25	26.9	108	82-124
75-00-3	Chloroethane	25	21.4	86	62-144
67-66-3	Chloroform	25	25.7	103	80-124
110-82-7	Cyclohexane	25	25.2	101	73-138
124-48-1	Dibromochloromethane	25	24.1	96	78-122
96-12-8	1,2-Dibromo-3-chloropropane	25	20.6	82	64-123
106-93-4	1,2-Dibromoethane	25	28.5	114	75-120
75-71-8	Dichlorodifluoromethane	25	22.3	89	42-167
95-50-1	1,2-Dichlorobenzene	25	26.3	105	82-124
541-73-1	1,3-Dichlorobenzene	25	27.6	110	84-125
106-46-7	1,4-Dichlorobenzene	25	27.1	108	78-120
75-34-3	1,1-Dichloroethane	25	27.9	112	81-122
107-06-2	1,2-Dichloroethane	25	26.0	104	75-125
75-35-4	1,1-Dichloroethylene	25	24.4	98	78-137
156-59-2	cis-1,2-Dichloroethylene	25	27.2	109	78-120
156-60-5	trans-1,2-Dichloroethylene	25	26.6	106	76-127
78-87-5	1,2-Dichloropropane	25	27.2	109	76-124
10061-01-5	cis-1,3-Dichloropropene	25	25.3	101	75-118
10061-02-6	trans-1,3-Dichloropropene	25	26.9	108	80-120
100-41-4	Ethylbenzene	25	29.6	118	81-121
76-13-1	Freon 113	25	22.1	88	72-134
591-78-6	2-Hexanone	125	128	102	61-129
98-82-8	Isopropylbenzene	25	29.5	118	83-132
99-87-6	p-Isopropyltoluene	25	28.2	113	79-130
79-20-9	Methyl Acetate	125	127	102	65-126
74-83-9	Methyl Bromide	25	21.0	84	59-143
74-87-3	Methyl Chloride	25	20.0	80	50-159

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA39742
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, Humacao, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VI1227-BS [a]	I44593.D	1	12/29/16	WV	n/a	n/a	VI1227

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

FA39742-1, FA39742-11, FA39742-12

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
108-87-2	Methylcyclohexane	25	26.9	108	76-129
75-09-2	Methylene Chloride	25	25.2	101	69-135
108-10-1	4-Methyl-2-pentanone (MIBK)	125	124	99	66-122
1634-04-4	Methyl Tert Butyl Ether	25	25.0	100	72-117
100-42-5	Styrene	25	27.8	111	78-119
75-85-4	Tert-Amyl Alcohol	250	235	94	65-124
75-65-0	Tert-Butyl Alcohol	250	339	136*	63-129
79-34-5	1,1,2,2-Tetrachloroethane	25	25.6	102	72-120
127-18-4	Tetrachloroethylene	25	24.4	98	76-135
109-99-9	Tetrahydrofuran	25	24.7	99	56-122
108-88-3	Toluene	25	29.3	117	80-120
87-61-6	1,2,3-Trichlorobenzene	25	28.9	116	68-131
120-82-1	1,2,4-Trichlorobenzene	25	25.8	103	73-129
71-55-6	1,1,1-Trichloroethane	25	25.9	104	75-130
79-00-5	1,1,2-Trichloroethane	25	27.6	110	76-119
79-01-6	Trichloroethylene	25	27.6	110	81-126
75-69-4	Trichlorofluoromethane	25	24.1	96	71-156
95-63-6	1,2,4-Trimethylbenzene	25	30.9	124*	79-120
75-01-4	Vinyl Chloride	25	21.4	86	69-159
	m,p-Xylene	50	60.8	122	79-126
95-47-6	o-Xylene	25	28.9	116	80-127

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	102%	83-118%
17060-07-0	1,2-Dichloroethane-D4	97%	79-125%
2037-26-5	Toluene-D8	101%	85-112%
460-00-4	4-Bromofluorobenzene	100%	83-118%

(a) No sample available for MS/MSD.

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA39742
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, Humacao, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VI1230-BS	I44652.D	1	12/30/16	WV	n/a	n/a	VI1230

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

FA39742-6, FA39742-16, FA39742-17

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
67-64-1	Acetone	125	127	102	50-147
71-43-2	Benzene	25	29.2	117	81-122
100-44-7	Benzyl Chloride	25	25.5	102	54-122
74-97-5	Bromochloromethane	25	26.0	104	76-123
75-27-4	Bromodichloromethane	25	28.6	114	79-123
75-25-2	Bromoform	25	23.9	96	66-123
78-93-3	2-Butanone (MEK)	125	130	104	56-143
75-15-0	Carbon Disulfide	25	24.3	97	66-148
56-23-5	Carbon Tetrachloride	25	28.4	114	76-136
108-90-7	Chlorobenzene	25	26.9	108	82-124
75-00-3	Chloroethane	25	18.0	72	62-144
67-66-3	Chloroform	25	25.3	101	80-124
110-82-7	Cyclohexane	25	25.3	101	73-138
124-48-1	Dibromochloromethane	25	24.3	97	78-122
96-12-8	1,2-Dibromo-3-chloropropane	25	21.5	86	64-123
106-93-4	1,2-Dibromoethane	25	27.8	111	75-120
75-71-8	Dichlorodifluoromethane	25	18.2	73	42-167
95-50-1	1,2-Dichlorobenzene	25	27.4	110	82-124
541-73-1	1,3-Dichlorobenzene	25	27.5	110	84-125
106-46-7	1,4-Dichlorobenzene	25	26.9	108	78-120
75-34-3	1,1-Dichloroethane	25	28.0	112	81-122
107-06-2	1,2-Dichloroethane	25	24.8	99	75-125
75-35-4	1,1-Dichloroethylene	25	25.9	104	78-137
156-59-2	cis-1,2-Dichloroethylene	25	27.3	109	78-120
156-60-5	trans-1,2-Dichloroethylene	25	26.9	108	76-127
78-87-5	1,2-Dichloropropane	25	26.6	106	76-124
10061-01-5	cis-1,3-Dichloropropene	25	25.5	102	75-118
10061-02-6	trans-1,3-Dichloropropene	25	27.0	108	80-120
100-41-4	Ethylbenzene	25	29.2	117	81-121
76-13-1	Freon 113	25	23.7	95	72-134
591-78-6	2-Hexanone	125	112	90	61-129
98-82-8	Isopropylbenzene	25	28.8	115	83-132
99-87-6	p-Isopropyltoluene	25	28.7	115	79-130
79-20-9	Methyl Acetate	125	123	98	65-126
74-83-9	Methyl Bromide	25	17.7	71	59-143
74-87-3	Methyl Chloride	25	17.4	70	50-159

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA39742
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, Humacao, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VI1230-BS	I44652.D	1	12/30/16	WV	n/a	n/a	VI1230

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

FA39742-6, FA39742-16, FA39742-17

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
108-87-2	Methylcyclohexane	25	26.6	106	76-129
75-09-2	Methylene Chloride	25	25.0	100	69-135
108-10-1	4-Methyl-2-pentanone (MIBK)	125	109	87	66-122
1634-04-4	Methyl Tert Butyl Ether	25	25.2	101	72-117
100-42-5	Styrene	25	27.0	108	78-119
75-85-4	Tert-Amyl Alcohol	250	225	90	65-124
75-65-0	Tert-Butyl Alcohol	250	333	133*	63-129
79-34-5	1,1,2,2-Tetrachloroethane	25	26.3	105	72-120
127-18-4	Tetrachloroethylene	25	24.0	96	76-135
109-99-9	Tetrahydrofuran	25	24.2	97	56-122
108-88-3	Toluene	25	28.6	114	80-120
87-61-6	1,2,3-Trichlorobenzene	25	29.4	118	68-131
120-82-1	1,2,4-Trichlorobenzene	25	26.6	106	73-129
71-55-6	1,1,1-Trichloroethane	25	26.0	104	75-130
79-00-5	1,1,2-Trichloroethane	25	26.8	107	76-119
79-01-6	Trichloroethylene	25	26.3	105	81-126
75-69-4	Trichlorofluoromethane	25	21.3	85	71-156
95-63-6	1,2,4-Trimethylbenzene	25	30.5	122*	79-120
75-01-4	Vinyl Chloride	25	18.8	75	69-159
	m,p-Xylene	50	58.2	116	79-126
95-47-6	o-Xylene	25	28.2	113	80-127

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	103%	83-118%
17060-07-0	1,2-Dichloroethane-D4	94%	79-125%
2037-26-5	Toluene-D8	100%	85-112%
460-00-4	4-Bromofluorobenzene	102%	83-118%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA39742
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, Humacao, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VJ5531-BS	J0981918.D	1	01/03/17	DP	n/a	n/a	VJ5531

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

FA39742-16

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
100-41-4	Ethylbenzene	25	28.7	115	81-121
	m,p-Xylene	50	53.4	107	79-126

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	97%	83-118%
17060-07-0	1,2-Dichloroethane-D4	104%	79-125%
2037-26-5	Toluene-D8	101%	85-112%
460-00-4	4-Bromofluorobenzene	101%	83-118%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA39742
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, Humacao, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VJ5532-BS	J0981949.D	1	01/04/17	DP	n/a	n/a	VJ5532

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

FA39742-17

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
100-41-4	Ethylbenzene	25	28.8	115	81-121
	m,p-Xylene	50	54.1	108	79-126

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	99%	83-118%
17060-07-0	1,2-Dichloroethane-D4	108%	79-125%
2037-26-5	Toluene-D8	99%	85-112%
460-00-4	4-Bromofluorobenzene	108%	83-118%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA39742
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, Humacao, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA39742-16MS	I44676.D	1	12/30/16	WV	n/a	n/a	VI1230
FA39742-16MSD	I44677.D	1	12/30/16	WV	n/a	n/a	VI1230
FA39742-16	I44674.D	1	12/30/16	WV	n/a	n/a	VI1230

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

FA39742-6, FA39742-16, FA39742-17

CAS No.	Compound	FA39742-16 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	ND		125	107	86	125	107	86	0	50-147/21
71-43-2	Benzene	2.7		25	30.4	111	25	30.6	112	1	81-122/14
100-44-7	Benzyl Chloride	ND		25	19.5	78	25	19.5	78	0	54-122/18
74-97-5	Bromochloromethane	ND		25	23.4	94	25	24.0	96	3	76-123/14
75-27-4	Bromodichloromethane	ND		25	25.5	102	25	26.0	104	2	79-123/19
75-25-2	Bromoform	ND		25	16.3	65*	25	17.0	68	4	66-123/21
78-93-3	2-Butanone (MEK)	ND		125	130	104	125	132	106	2	56-143/18
75-15-0	Carbon Disulfide	ND		25	20.6	82	25	21.7	87	5	66-148/23
56-23-5	Carbon Tetrachloride	ND		25	25.5	102	25	26.6	106	4	76-136/23
108-90-7	Chlorobenzene	ND		25	18.7	75*	25	18.7	75*	0	82-124/14
75-00-3	Chloroethane	ND		25	22.5	90	25	21.9	88	3	62-144/20
67-66-3	Chloroform	ND		25	24.2	97	25	24.2	97	0	80-124/15
110-82-7	Cyclohexane	ND		25	24.7	99	25	25.2	101	2	73-138/18
124-48-1	Dibromochloromethane	ND		25	20.5	82	25	21.7	87	6	78-122/19
96-12-8	1,2-Dibromo-3-chloropropane	ND		25	21.3	85	25	21.2	85	0	64-123/18
106-93-4	1,2-Dibromoethane	ND		25	25.5	102	25	27.8	111	9	75-120/13
75-71-8	Dichlorodifluoromethane	ND		25	21.3	85	25	21.5	86	1	42-167/19
95-50-1	1,2-Dichlorobenzene	ND		25	24.7	99	25	24.8	99	0	82-124/14
541-73-1	1,3-Dichlorobenzene	ND		25	25.1	100	25	26.1	104	4	84-125/14
106-46-7	1,4-Dichlorobenzene	ND		25	24.7	99	25	25.2	101	2	78-120/15
75-34-3	1,1-Dichloroethane	ND		25	26.6	106	25	27.1	108	2	81-122/15
107-06-2	1,2-Dichloroethane	ND		25	24.7	99	25	24.3	97	2	75-125/14
75-35-4	1,1-Dichloroethylene	ND		25	24.9	100	25	25.5	102	2	78-137/18
156-59-2	cis-1,2-Dichloroethylene	ND		25	24.9	100	25	25.9	104	4	78-120/15
156-60-5	trans-1,2-Dichloroethylene	ND		25	25.6	102	25	25.7	103	0	76-127/17
78-87-5	1,2-Dichloropropane	ND		25	26.1	104	25	26.6	106	2	76-124/14
10061-01-5	cis-1,3-Dichloropropene	ND		25	21.7	87	25	22.2	89	2	75-118/23
10061-02-6	trans-1,3-Dichloropropene	ND		25	24.1	96	25	25.9	104	7	80-120/22
100-41-4	Ethylbenzene	798	E	25	698	-400* [a]	25	693	-420* [a]	1	81-121/14
76-13-1	Freon 113	ND		25	21.5	86	25	22.2	89	3	72-134/20
591-78-6	2-Hexanone	ND		125	119	95	125	129	103	8	61-129/18
98-82-8	Isopropylbenzene	58.7		25	82.7	96	25	85.4	107	3	83-132/15
99-87-6	p-Isopropyltoluene	ND		25	25.9	104	25	25.9	104	0	79-130/16
79-20-9	Methyl Acetate	ND		125	114	91	125	108	86	5	65-126/18
74-83-9	Methyl Bromide	ND		25	20.5	82	25	22.1	88	8	59-143/19
74-87-3	Methyl Chloride	ND		25	21.2	85	25	21.0	84	1	50-159/19

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA39742
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, Humacao, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA39742-16MS	I44676.D	1	12/30/16	WV	n/a	n/a	VI1230
FA39742-16MSD	I44677.D	1	12/30/16	WV	n/a	n/a	VI1230
FA39742-16	I44674.D	1	12/30/16	WV	n/a	n/a	VI1230

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

FA39742-6, FA39742-16, FA39742-17

CAS No.	Compound	FA39742-16 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	24.4	98	25	25.3	101	4	76-129/17
75-09-2	Methylene Chloride	ND		25	26.1	104	25	25.6	102	2	69-135/16
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		125	123	98	125	136	109	10	66-122/16
1634-04-4	Methyl Tert Butyl Ether	4.6		25	29.1	98	25	30.0	102	3	72-117/14
100-42-5	Styrene	ND		25	20.3	81	25	21.8	87	7	78-119/23
75-85-4	Tert-Amyl Alcohol	ND		250	222	89	250	238	95	7	65-124/23
75-65-0	Tert-Butyl Alcohol	57.2		250	441	154*	250	439	153*	0	63-129/27
79-34-5	1,1,2,2-Tetrachloroethane	ND		25	24.0	96	25	24.4	98	2	72-120/14
127-18-4	Tetrachloroethylene	ND		25	22.1	88	25	23.9	96	8	76-135/16
109-99-9	Tetrahydrofuran	ND		25	26.6	106	25	24.9	100	7	56-122/21
108-88-3	Toluene	0.91	J	25	27.1	105	25	30.3	118	11	80-120/14
87-61-6	1,2,3-Trichlorobenzene	ND		25	26.4	106	25	27.8	111	5	68-131/25
120-82-1	1,2,4-Trichlorobenzene	ND		25	23.8	95	25	25.0	100	5	73-129/20
71-55-6	1,1,1-Trichloroethane	ND		25	24.2	97	25	24.4	98	1	75-130/16
79-00-5	1,1,2-Trichloroethane	ND		25	25.5	102	25	27.0	108	6	76-119/14
79-01-6	Trichloroethylene	ND		25	25.1	100	25	26.2	105	4	81-126/15
75-69-4	Trichlorofluoromethane	ND		25	24.4	98	25	23.8	95	2	71-156/21
95-63-6	1,2,4-Trimethylbenzene	ND		25	27.5	110	25	28.4	114	3	79-120/18
75-01-4	Vinyl Chloride	ND		25	22.8	91	25	22.1	88	3	69-159/18
	m,p-Xylene	1210	E	50	1060	-300* [a]	50	1040	-340* [a]	2	79-126/15
95-47-6	o-Xylene	0.46	J	25	24.5	96	25	25.4	100	4	80-127/14

CAS No.	Surrogate Recoveries	MS	MSD	FA39742-16	Limits
1868-53-7	Dibromofluoromethane	103%	103%	97%	83-118%
17060-07-0	1,2-Dichloroethane-D4	101%	98%	102%	79-125%
2037-26-5	Toluene-D8	101%	106%	104%	85-112%
460-00-4	4-Bromofluorobenzene	101%	99%	103%	83-118%

(a) Outside control limits due to high level in sample relative to spike amount.

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA39742
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, Humacao, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA39907-16MS	J0981939.D	1	01/03/17	DP	n/a	n/a	VJ5531
FA39907-16MSD	J0981940.D	1	01/03/17	DP	n/a	n/a	VJ5531
FA39907-16	J0981936.D	1	01/03/17	DP	n/a	n/a	VJ5531

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

FA39742-16

CAS No.	Compound	FA39907-16 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
100-41-4	Ethylbenzene	ND		25	34.3	137*	25	32.1	128*	7	81-121/14
	m,p-Xylene	0.74	J	50	63.7	126	50	59.0	117	8	79-126/15

CAS No.	Surrogate Recoveries	MS	MSD	FA39907-16	Limits
1868-53-7	Dibromofluoromethane	98%	97%	99%	83-118%
17060-07-0	1,2-Dichloroethane-D4	108%	109%	115%	79-125%
2037-26-5	Toluene-D8	104%	101%	100%	85-112%
460-00-4	4-Bromofluorobenzene	103%	107%	106%	83-118%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA39742
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, Humacao, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA39942-11MS	J0981965.D	1	01/04/17	DP	n/a	n/a	VJ5532
FA39942-11MSD	J0981966.D	1	01/04/17	DP	n/a	n/a	VJ5532
FA39942-11	J0981963.D	1	01/04/17	DP	n/a	n/a	VJ5532

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

FA39742-17

CAS No.	Compound	FA39942-11 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
100-41-4	Ethylbenzene	ND		25	32.0	128*	25	28.0	112	13	81-121/14
	m,p-Xylene	ND		50	59.2	118	50	49.9	100	17*	79-126/15

CAS No.	Surrogate Recoveries	MS	MSD	FA39942-11	Limits
1868-53-7	Dibromofluoromethane	93%	101%	96%	83-118%
17060-07-0	1,2-Dichloroethane-D4	108%	109%	107%	79-125%
2037-26-5	Toluene-D8	102%	99%	101%	85-112%
460-00-4	4-Bromofluorobenzene	104%	105%	106%	83-118%

* = Outside of Control Limits.

Instrument Performance Check (BFB)

Job Number: FA39742
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, Humacao, PR

Sample: VI1214-BFB
Lab File ID: I44363.D
Instrument ID: GCMSI
Injection Date: 12/22/16
Injection Time: 09:43

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	15.0 - 40.0% of mass 95	107957	25.4		Pass
75	30.0 - 60.0% of mass 95	221397	52.1		Pass
95	Base peak, 100% relative abundance	425323	100.0		Pass
96	5.0 - 9.0% of mass 95	29453	6.92		Pass
173	Less than 2.0% of mass 174	2635	0.62	(0.95) [a]	Pass
174	50.0 - 100.0% of mass 95	276843	65.1		Pass
175	5.0 - 9.0% of mass 174	20792	4.89	(7.51) [a]	Pass
176	95.0 - 101.0% of mass 174	267712	62.9	(96.7) [a]	Pass
177	5.0 - 9.0% of mass 176	17473	4.11	(6.53) [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
VI1214-IC1214	I44364.D	12/22/16	10:11	00:28	Initial cal 1
VI1214-IC1214	I44365.D	12/22/16	10:35	00:52	Initial cal 2
VI1214-IC1214	I44366.D	12/22/16	10:59	01:16	Initial cal 3
VI1214-IC1214	I44367.D	12/22/16	11:23	01:40	Initial cal 4
VI1214-ICC1214	I44368.D	12/22/16	11:46	02:03	Initial cal 5
VI1214-IC1214	I44369.D	12/22/16	12:10	02:27	Initial cal 6
VI1214-IC1214	I44370.D	12/22/16	12:33	02:50	Initial cal 7
VI1214-ICV1214	I44372.D	12/22/16	13:20	03:37	Initial cal verification 5
VI1214-BS	I44373.D	12/22/16	13:43	04:00	Blank Spike
VI1214-MB	I44374.D	12/22/16	14:13	04:30	Method Blank
ZZZZZZ	I44375.D	12/22/16	14:36	04:53	(unrelated sample)
ZZZZZZ	I44376.D	12/22/16	15:00	05:17	(unrelated sample)
ZZZZZZ	I44377.D	12/22/16	15:24	05:41	(unrelated sample)
FA39470-31	I44378.D	12/22/16	15:48	06:05	(used for QC only; not part of job FA39742)
ZZZZZZ	I44379.D	12/22/16	16:11	06:28	(unrelated sample)
ZZZZZZ	I44380.D	12/22/16	16:35	06:52	(unrelated sample)
ZZZZZZ	I44381.D	12/22/16	16:59	07:16	(unrelated sample)
ZZZZZZ	I44382.D	12/22/16	17:23	07:40	(unrelated sample)
ZZZZZZ	I44383.D	12/22/16	17:46	08:03	(unrelated sample)
ZZZZZZ	I44384.D	12/22/16	18:09	08:26	(unrelated sample)
ZZZZZZ	I44385.D	12/22/16	18:33	08:50	(unrelated sample)
ZZZZZZ	I44386.D	12/22/16	18:56	09:13	(unrelated sample)
ZZZZZZ	I44387.D	12/22/16	19:19	09:36	(unrelated sample)
ZZZZZZ	I44388.D	12/22/16	19:42	09:59	(unrelated sample)

Instrument Performance Check (BFB)

Job Number: FA39742
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, Humacao, PR

Sample: VI1214-BFB
Lab File ID: I44363.D
Instrument ID: GCMSI
Injection Date: 12/22/16
Injection Time: 09:43

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
ZZZZZZ	I44389.D	12/22/16	20:06	10:23	(unrelated sample)
FA39470-31MS	I44390.D	12/22/16	20:29	10:46	Matrix Spike
FA39470-31MSD	I44391.D	12/22/16	20:53	11:10	Matrix Spike Duplicate
VI1214-ECC1214	I44392.D	12/22/16	21:16	11:33	Ending cal 5

Instrument Performance Check (BFB)

Job Number: FA39742
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, Humacao, PR

Sample: VI1222-BFB
Lab File ID: I44534.D
Instrument ID: GCMSI
Injection Date: 12/28/16
Injection Time: 08:19

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	15.0 - 40.0% of mass 95	114989	24.0		Pass
75	30.0 - 60.0% of mass 95	244224	51.1		Pass
95	Base peak, 100% relative abundance	478229	100.0		Pass
96	5.0 - 9.0% of mass 95	32755	6.85		Pass
173	Less than 2.0% of mass 174	3006	0.63	(0.94) [a]	Pass
174	50.0 - 100.0% of mass 95	319381	66.8		Pass
175	5.0 - 9.0% of mass 174	24048	5.03	(7.53) [a]	Pass
176	95.0 - 101.0% of mass 174	306581	64.1	(96.0) [a]	Pass
177	5.0 - 9.0% of mass 176	20299	4.24	(6.62) [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
VI1222-CC1214	I44535.D	12/28/16	08:43	00:24	Continuing cal 5
VI1222-BS	I44536.D	12/28/16	09:21	01:02	Blank Spike
VI1223-BS	I44536.D	12/28/16	09:21	01:02	Blank Spike
VI1222-MB	I44537.D	12/28/16	09:45	01:26	Method Blank
VI1223-MB	I44537.D	12/28/16	09:45	01:26	Method Blank
ZZZZZZ	I44538.D	12/28/16	10:23	02:04	(unrelated sample)
FA39684-17	I44539.D	12/28/16	10:46	02:27	(used for QC only; not part of job FA39742)
ZZZZZZ	I44540.D	12/28/16	11:50	03:31	(unrelated sample)
ZZZZZZ	I44541.D	12/28/16	12:14	03:55	(unrelated sample)
ZZZZZZ	I44542.D	12/28/16	12:38	04:19	(unrelated sample)
ZZZZZZ	I44543.D	12/28/16	13:02	04:43	(unrelated sample)
ZZZZZZ	I44544.D	12/28/16	13:26	05:07	(unrelated sample)
ZZZZZZ	I44545.D	12/28/16	13:49	05:30	(unrelated sample)
ZZZZZZ	I44546.D	12/28/16	14:13	05:54	(unrelated sample)
FA39684-17MS	I44547.D	12/28/16	14:37	06:18	Matrix Spike
FA39684-17MSD	I44548.D	12/28/16	15:01	06:42	Matrix Spike Duplicate
FA39742-2	I44549.D	12/28/16	15:24	07:05	S-43D
FA39742-3	I44550.D	12/28/16	15:48	07:29	FB-121516
FA39742-4	I44551.D	12/28/16	16:12	07:53	EB-121516
FA39742-5	I44552.D	12/28/16	16:36	08:17	TB-121516 RS
FA39742-7	I44553.D	12/28/16	17:00	08:41	MW-13
FA39742-8	I44554.D	12/28/16	17:24	09:05	MW-7
FA39742-9	I44555.D	12/28/16	17:48	09:29	TB121416 RS
FA39742-10	I44556.D	12/28/16	18:11	09:52	S-42S

Instrument Performance Check (BFB)

Job Number: FA39742
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, Humacao, PR

Sample: VI1222-BFB
Lab File ID: I44534.D
Instrument ID: GCMSI
Injection Date: 12/28/16
Injection Time: 08:19

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
FA39742-13	I44557.D	12/28/16	18:34	10:15	MW-22S
FA39742-14	I44558.D	12/28/16	18:57	10:38	TB121416 NRB
FA39742-15	I44559.D	12/28/16	19:21	11:02	FB121416
VI1222-ECC1214	I44561.D	12/28/16	20:09	11:50	Ending cal 5

Instrument Performance Check (BFB)

Job Number: FA39742
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, Humacao, PR

Sample: VI1226-BFB
Lab File ID: I44591.D
Instrument ID: GCMSI
Injection Date: 12/29/16
Injection Time: 08:06

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	15.0 - 40.0% of mass 95	124024	24.5		Pass
75	30.0 - 60.0% of mass 95	257643	50.9		Pass
95	Base peak, 100% relative abundance	506176	100.0		Pass
96	5.0 - 9.0% of mass 95	33981	6.71		Pass
173	Less than 2.0% of mass 174	3358	0.66	(1.00) [a]	Pass
174	50.0 - 100.0% of mass 95	335552	66.3		Pass
175	5.0 - 9.0% of mass 174	24848	4.91	(7.41) [a]	Pass
176	95.0 - 101.0% of mass 174	324480	64.1	(96.7) [a]	Pass
177	5.0 - 9.0% of mass 176	21365	4.22	(6.58) [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
VI1226-CC1214	I44592.D	12/29/16	08:30	00:24	Continuing cal 5
VI1227-BS	I44593.D	12/29/16	08:57	00:51	Blank Spike
VI1226-BS	I44593.D	12/29/16	08:57	00:51	Blank Spike
VI1227-MB	I44594.D	12/29/16	09:20	01:14	Method Blank
VI1226-MB	I44594.D	12/29/16	09:20	01:14	Method Blank
ZZZZZZ	I44595.D	12/29/16	10:05	01:59	(unrelated sample)
ZZZZZZ	I44596.D	12/29/16	10:29	02:23	(unrelated sample)
ZZZZZZ	I44597.D	12/29/16	10:52	02:46	(unrelated sample)
ZZZZZZ	I44598.D	12/29/16	11:15	03:09	(unrelated sample)
ZZZZZZ	I44599.D	12/29/16	11:39	03:33	(unrelated sample)
FA39678-2	I44600.D	12/29/16	12:03	03:57	(used for QC only; not part of job FA39742)
FA39742-1	I44601.D	12/29/16	12:27	04:21	S-43S
FA39742-11	I44602.D	12/29/16	12:50	04:44	S-42D
FA39742-12	I44603.D	12/29/16	13:14	05:08	TB121516 NR
FA39678-2MS	I44604.D	12/29/16	13:37	05:31	Matrix Spike
FA39678-2MSD	I44605.D	12/29/16	14:00	05:54	Matrix Spike Duplicate
ZZZZZZ	I44606.D	12/29/16	14:24	06:18	(unrelated sample)
ZZZZZZ	I44607.D	12/29/16	14:48	06:42	(unrelated sample)
ZZZZZZ	I44608.D	12/29/16	15:11	07:05	(unrelated sample)
ZZZZZZ	I44609.D	12/29/16	15:35	07:29	(unrelated sample)
ZZZZZZ	I44610.D	12/29/16	15:59	07:53	(unrelated sample)
ZZZZZZ	I44611.D	12/29/16	16:23	08:17	(unrelated sample)
ZZZZZZ	I44612.D	12/29/16	16:46	08:40	(unrelated sample)
ZZZZZZ	I44613.D	12/29/16	17:10	09:04	(unrelated sample)

Instrument Performance Check (BFB)

Job Number: FA39742
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, Humacao, PR

Sample: VI1226-BFB
Lab File ID: I44591.D
Instrument ID: GCMSI
Injection Date: 12/29/16
Injection Time: 08:06

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
ZZZZZZ	I44614.D	12/29/16	17:33	09:27	(unrelated sample)
ZZZZZZ	I44615.D	12/29/16	17:57	09:51	(unrelated sample)
ZZZZZZ	I44616.D	12/29/16	18:20	10:14	(unrelated sample)
VI1226-ECC1214	I44618.D	12/29/16	19:07	11:01	Ending cal 5

Instrument Performance Check (BFB)

Job Number: FA39742
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, Humacao, PR

Sample: VI1229-BFB
Lab File ID: I44648.D
Instrument ID: GCMSI
Injection Date: 12/30/16
Injection Time: 09:10

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	15.0 - 40.0% of mass 95	119816	23.9		Pass
75	30.0 - 60.0% of mass 95	257216	51.4		Pass
95	Base peak, 100% relative abundance	500907	100.0		Pass
96	5.0 - 9.0% of mass 95	35040	7.00		Pass
173	Less than 2.0% of mass 174	3027	0.60	(0.90) [a]	Pass
174	50.0 - 100.0% of mass 95	335253	66.9		Pass
175	5.0 - 9.0% of mass 174	25187	5.03	(7.51) [a]	Pass
176	95.0 - 101.0% of mass 174	322880	64.5	(96.3) [a]	Pass
177	5.0 - 9.0% of mass 176	21685	4.33	(6.72) [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
VI1229-CC1214	I44649.D	12/30/16	09:35	00:25	Continuing cal 5
VI1229-MB	I44651.D	12/30/16	10:28	01:18	Method Blank
VI1230-MB	I44651.D	12/30/16	10:28	01:18	Method Blank
VI1229-BS	I44652.D	12/30/16	11:06	01:56	Blank Spike
VI1230-BS	I44652.D	12/30/16	11:06	01:56	Blank Spike
ZZZZZZ	I44653.D	12/30/16	11:30	02:20	(unrelated sample)
ZZZZZZ	I44654.D	12/30/16	11:53	02:43	(unrelated sample)
ZZZZZZ	I44655.D	12/30/16	12:17	03:07	(unrelated sample)
ZZZZZZ	I44656.D	12/30/16	12:40	03:30	(unrelated sample)
ZZZZZZ	I44657.D	12/30/16	13:04	03:54	(unrelated sample)
ZZZZZZ	I44658.D	12/30/16	13:28	04:18	(unrelated sample)
ZZZZZZ	I44659.D	12/30/16	13:51	04:41	(unrelated sample)
ZZZZZZ	I44660.D	12/30/16	14:15	05:05	(unrelated sample)
FA39770-9	I44661.D	12/30/16	14:38	05:28	(used for QC only; not part of job FA39742)
ZZZZZZ	I44662.D	12/30/16	15:03	05:53	(unrelated sample)
FA39770-9MS	I44663.D	12/30/16	15:26	06:16	Matrix Spike
FA39770-9MSD	I44664.D	12/30/16	15:49	06:39	Matrix Spike Duplicate
FA39770-9	I44665.D	12/30/16	16:13	07:03	(used for QC only; not part of job FA39742)
ZZZZZZ	I44666.D	12/30/16	16:36	07:26	(unrelated sample)
ZZZZZZ	I44667.D	12/30/16	17:00	07:50	(unrelated sample)
ZZZZZZ	I44668.D	12/30/16	17:23	08:13	(unrelated sample)
ZZZZZZ	I44669.D	12/30/16	17:47	08:37	(unrelated sample)
ZZZZZZ	I44670.D	12/30/16	18:11	09:01	(unrelated sample)
ZZZZZZ	I44671.D	12/30/16	18:34	09:24	(unrelated sample)

Instrument Performance Check (BFB)

Job Number: FA39742
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, Humacao, PR

Sample: VI1229-BFB
Lab File ID: I44648.D
Instrument ID: GCMSI
Injection Date: 12/30/16
Injection Time: 09:10

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
ZZZZZZ	I44672.D	12/30/16	18:58	09:48	(unrelated sample)
FA39742-6	I44673.D	12/30/16	19:21	10:11	EB-121616
FA39742-16	I44674.D	12/30/16	19:44	10:34	S-31R (2)
FA39742-17	I44675.D	12/30/16	20:08	10:58	TB121616 NRA
FA39742-16MS	I44676.D	12/30/16	20:31	11:21	Matrix Spike
FA39742-16MSD	I44677.D	12/30/16	20:55	11:45	Matrix Spike Duplicate
VI1229-ECC1214	I44678.D	12/30/16	21:19	12:09	Ending cal 5

Instrument Performance Check (BFB)

Job Number: FA39742
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, Humacao, PR

Sample: VJ5529-BFB
Lab File ID: J0981875.D
Instrument ID: GCMSJ
Injection Date: 12/30/16
Injection Time: 12:21

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	15.0 - 40.0% of mass 95	29543	18.2		Pass
75	30.0 - 60.0% of mass 95	77797	47.9		Pass
95	Base peak, 100% relative abundance	162453	100.0		Pass
96	5.0 - 9.0% of mass 95	9903	6.10		Pass
173	Less than 2.0% of mass 174	0	0.00	(0.00) [a]	Pass
174	50.0 - 100.0% of mass 95	138717	85.4		Pass
175	5.0 - 9.0% of mass 174	9378	5.77	(6.76) [a]	Pass
176	95.0 - 101.0% of mass 174	135477	83.4	(97.7) [a]	Pass
177	5.0 - 9.0% of mass 176	9616	5.92	(7.10) [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
VJ5529-IC5529	J0981876.D	12/30/16	12:50	00:29	Initial cal 1
VJ5529-IC5529	J0981877.D	12/30/16	13:13	00:52	Initial cal 2
VJ5529-IC5529	J0981878.D	12/30/16	13:37	01:16	Initial cal 3
VJ5529-IC5529	J0981879.D	12/30/16	14:00	01:39	Initial cal 4
VJ5529-ICC5529	J0981880.D	12/30/16	14:24	02:03	Initial cal 5
VJ5529-IC5529	J0981881.D	12/30/16	14:48	02:27	Initial cal 6
VJ5529-IC5529	J0981882.D	12/30/16	15:11	02:50	Initial cal 7
VJ5529-ICV5529	J0981884.D	12/30/16	15:58	03:37	Initial cal verification 5

Instrument Performance Check (BFB)

Job Number: FA39742
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, Humacao, PR

Sample: VJ5530-BFB
Lab File ID: J0981913.D
Instrument ID: GCMSJ
Injection Date: 01/03/17
Injection Time: 08:36

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	15.0 - 40.0% of mass 95	34517	20.1		Pass
75	30.0 - 60.0% of mass 95	82979	48.4		Pass
95	Base peak, 100% relative abundance	171349	100.0		Pass
96	5.0 - 9.0% of mass 95	10981	6.41		Pass
173	Less than 2.0% of mass 174	188	0.11	(0.14) [a]	Pass
174	50.0 - 100.0% of mass 95	138147	80.6		Pass
175	5.0 - 9.0% of mass 174	10114	5.90	(7.32) [a]	Pass
176	95.0 - 101.0% of mass 174	133837	78.1	(96.9) [a]	Pass
177	5.0 - 9.0% of mass 176	8421	4.91	(6.29) [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
VJ5530-CC5529	J0981914.D	01/03/17	09:16	00:40	Continuing cal 5
VJ5529-ICV5529	J0981915.D	01/03/17	09:52	01:16	Initial cal verification 5
VJ5530-MB	J0981917.D	01/03/17	10:39	02:03	Method Blank
VJ5531-MB	J0981917.D	01/03/17	10:39	02:03	Method Blank
VJ5531-BS	J0981918.D	01/03/17	11:15	02:39	Blank Spike
VJ5530-BS	J0981918.D	01/03/17	11:15	02:39	Blank Spike
ZZZZZZ	J0981919.D	01/03/17	12:05	03:29	(unrelated sample)
FA40012-1	J0981920.D	01/03/17	12:29	03:53	(used for QC only; not part of job FA39742)
ZZZZZZ	J0981922.D	01/03/17	13:16	04:40	(unrelated sample)
ZZZZZZ	J0981923.D	01/03/17	13:39	05:03	(unrelated sample)
ZZZZZZ	J0981924.D	01/03/17	14:03	05:27	(unrelated sample)
ZZZZZZ	J0981925.D	01/03/17	14:26	05:50	(unrelated sample)
ZZZZZZ	J0981926.D	01/03/17	14:50	06:14	(unrelated sample)
ZZZZZZ	J0981927.D	01/03/17	15:14	06:38	(unrelated sample)
ZZZZZZ	J0981928.D	01/03/17	15:38	07:02	(unrelated sample)
ZZZZZZ	J0981929.D	01/03/17	16:01	07:25	(unrelated sample)
ZZZZZZ	J0981930.D	01/03/17	16:25	07:49	(unrelated sample)
ZZZZZZ	J0981931.D	01/03/17	16:48	08:12	(unrelated sample)
ZZZZZZ	J0981932.D	01/03/17	17:12	08:36	(unrelated sample)
ZZZZZZ	J0981933.D	01/03/17	17:36	09:00	(unrelated sample)
ZZZZZZ	J0981934.D	01/03/17	18:00	09:24	(unrelated sample)
ZZZZZZ	J0981935.D	01/03/17	18:23	09:47	(unrelated sample)
FA39907-16	J0981936.D	01/03/17	18:47	10:11	(used for QC only; not part of job FA39742)
FA39742-16	J0981938.D	01/03/17	19:34	10:58	S-31R (2)

Instrument Performance Check (BFB)

Job Number: FA39742
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, Humacao, PR

Sample: VJ5530-BFB
Lab File ID: J0981913.D
Instrument ID: GCMSJ
Injection Date: 01/03/17
Injection Time: 08:36

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
FA39907-16MS	J0981939.D	01/03/17	19:57	11:21	Matrix Spike
FA39907-16MSD	J0981940.D	01/03/17	20:21	11:45	Matrix Spike Duplicate
FA40012-1MS	J0981941.D	01/03/17	20:44	12:08	Matrix Spike
FA40012-1MSD	J0981942.D	01/03/17	21:08	12:32	Matrix Spike Duplicate
VJ5530-ECC5529	J0981943.D	01/03/17	21:32	12:56	Ending cal 5

Instrument Performance Check (BFB)

Job Number: FA39742
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, Humacao, PR

Sample: VJ5532-BFB
Lab File ID: J0981945.D
Instrument ID: GCMSJ
Injection Date: 01/04/17
Injection Time: 08:13

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	15.0 - 40.0% of mass 95	35117	21.9		Pass
75	30.0 - 60.0% of mass 95	79232	49.5		Pass
95	Base peak, 100% relative abundance	160107	100.0		Pass
96	5.0 - 9.0% of mass 95	11632	7.27		Pass
173	Less than 2.0% of mass 174	0	0.00	(0.00) [a]	Pass
174	50.0 - 100.0% of mass 95	119813	74.8		Pass
175	5.0 - 9.0% of mass 174	8617	5.38	(7.19) [a]	Pass
176	95.0 - 101.0% of mass 174	115707	72.3	(96.6) [a]	Pass
177	5.0 - 9.0% of mass 176	7338	4.58	(6.34) [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
VJ5532-CC5529	J0981946.D	01/04/17	08:58	00:45	Continuing cal 5
VJ5532-MB	J0981948.D	01/04/17	10:05	01:52	Method Blank
VJ5532-BS	J0981949.D	01/04/17	10:45	02:32	Blank Spike
FA39742-17	J0981950.D	01/04/17	11:25	03:12	TB121616 NRA
ZZZZZZ	J0981951.D	01/04/17	11:49	03:36	(unrelated sample)
ZZZZZZ	J0981952.D	01/04/17	12:13	04:00	(unrelated sample)
ZZZZZZ	J0981953.D	01/04/17	12:36	04:23	(unrelated sample)
ZZZZZZ	J0981954.D	01/04/17	13:00	04:47	(unrelated sample)
ZZZZZZ	J0981955.D	01/04/17	13:23	05:10	(unrelated sample)
ZZZZZZ	J0981956.D	01/04/17	13:46	05:33	(unrelated sample)
ZZZZZZ	J0981957.D	01/04/17	14:09	05:56	(unrelated sample)
ZZZZZZ	J0981958.D	01/04/17	14:33	06:20	(unrelated sample)
ZZZZZZ	J0981959.D	01/04/17	14:56	06:43	(unrelated sample)
ZZZZZZ	J0981960.D	01/04/17	15:20	07:07	(unrelated sample)
ZZZZZZ	J0981962.D	01/04/17	16:07	07:54	(unrelated sample)
FA39942-11	J0981963.D	01/04/17	16:31	08:18	(used for QC only; not part of job FA39742)
ZZZZZZ	J0981964.D	01/04/17	16:54	08:41	(unrelated sample)
FA39942-11MS	J0981965.D	01/04/17	17:18	09:05	Matrix Spike
FA39942-11MSD	J0981966.D	01/04/17	17:41	09:28	Matrix Spike Duplicate
VJ5532-ECC5529	J0981967.D	01/04/17	18:04	09:51	Ending cal 5

Volatile Internal Standard Area Summary

Job Number: FA39742
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, Humacao, PR

Check Std:	VI1222-CC1214	**Injection Date:**	12/28/16
Lab File ID:	I44535.D	**Injection Time:**	08:43
Instrument ID:	GCMSI	**Method:**	SW846 8260C

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT
Initial Cal [a]	2226204	7.12	1551209	10.23	733696	12.59	205166	4.70
Check Std [b]	2294697	7.11	1576548	10.23	765622	12.59	196280	4.69
Upper Limit [c]	4589394	7.61	3153096	10.73	1531244	13.09	392560	5.19
Lower Limit [d]	1147349	6.61	788274	9.73	382811	12.09	98140	4.19

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT
VI1223-BS [e]	2420040	7.11	1633620	10.23	804234	12.59	196205	4.69
VI1222-BS	2420040	7.11	1633620	10.23	804234	12.59	196205	4.69
VI1223-MB	2339711	7.12	1543186	10.23	733405	12.59	189402	4.70
VI1222-MB	2339711	7.12	1543186	10.23	733405	12.59	189402	4.70
ZZZZZZ	2314478	7.11	1520504	10.23	735208	12.59	183894	4.69
FA39684-17	2216889	7.11	1466880	10.23	727842	12.59	156931	4.69
ZZZZZZ	2149070	7.11	1421898	10.22	670960	12.58	150682	4.68
ZZZZZZ	2178285	7.11	1438240	10.23	675685	12.59	122343	4.69
ZZZZZZ	2098178	7.11	1416479	10.23	657665	12.59	134746	4.69
ZZZZZZ	2026794	7.12	1369693	10.23	633485	12.59	139846	4.70
ZZZZZZ	1977116	7.12	1292332	10.23	611316	12.59	140686	4.69
ZZZZZZ	1840858	7.12	1196659	10.23	563166	12.59	121213	4.69
ZZZZZZ	1682993	7.11	1118260	10.23	516839	12.59	123339	4.68
FA39684-17MS	1880389	7.11	1307653	10.23	641546	12.59	154117	4.69
FA39684-17MSD	2004793	7.12	1391243	10.23	663812	12.59	165012	4.70
FA39742-2	1962395	7.12	1304389	10.23	616442	12.59	144246	4.69
FA39742-3	1914822	7.12	1264651	10.23	593984	12.59	130398	4.70
FA39742-4	1808668	7.12	1191334	10.23	555473	12.59	130967	4.69
FA39742-5	1774371	7.12	1163946	10.23	543082	12.59	131842	4.70
FA39742-7	1752440	7.12	1122219	10.23	524644	12.59	130118	4.69
FA39742-8	1675187	7.12	1110080	10.23	518054	12.59	130663	4.69
FA39742-9	1654409	7.12	1085647	10.23	512052	12.59	126519	4.69
FA39742-10	1641817	7.12	1074706	10.23	500356	12.59	124261	4.69
FA39742-13	1636099	7.12	1079073	10.23	503826	12.59	122618	4.69
FA39742-14	1617666	7.12	1056099	10.23	492179	12.59	122284	4.69
FA39742-15	1581855	7.12	1041744	10.23	487571	12.59	119418	4.70
VI1222-ECC1214	1743789	7.12	1204731	10.23	589250	12.59	157549	4.69

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: FA39742
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, Humacao, PR

Check Std:	VI1222-CC1214	**Injection Date:**	12/28/16
Lab File ID:	I44535.D	**Injection Time:**	08:43
Instrument ID:	GCMSI	**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: VI1214-ICC1214 I44368.D 12/22/16 11:46
(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.
(e) No MS/MSD available for this run.

Volatile Internal Standard Area Summary

Job Number: FA39742
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, Humacao, PR

Check Std:	VI1226-CC1214	**Injection Date:**	12/29/16
Lab File ID:	I44592.D	**Injection Time:**	08:30
Instrument ID:	GCMSI	**Method:**	SW846 8260C

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT
Initial Cal [a]	2226204	7.12	1551209	10.23	733696	12.59	205166	4.70
Check Std [b]	2194690	7.11	1521198	10.23	748485	12.59	200365	4.69
Upper Limit [c]	4389380	7.61	3042396	10.73	1496970	13.09	400730	5.19
Lower Limit [d]	1097345	6.61	760599	9.73	374243	12.09	100183	4.19

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT
VI1227-BS [e]	2264714	7.11	1558936	10.23	761729	12.59	213408	4.69
VI1226-BS	2264714	7.11	1558936	10.23	761729	12.59	213408	4.69
VI1227-MB	2210840	7.12	1488655	10.23	714571	12.59	190110	4.69
VI1226-MB	2210840	7.12	1488655	10.23	714571	12.59	190110	4.69
ZZZZZZ	2185808	7.11	1464080	10.23	687898	12.59	186198	4.69
ZZZZZZ	2116648	7.11	1428303	10.23	655348	12.59	164212	4.69
ZZZZZZ	2003359	7.12	1328633	10.23	615770	12.59	148952	4.69
ZZZZZZ	1923211	7.12	1253347	10.23	591281	12.59	142896	4.69
ZZZZZZ	1820896	7.12	1230017	10.23	559176	12.59	154355	4.69
FA39678-2	1746290	7.12	1161464	10.23	540086	12.59	142675	4.69
FA39742-1	1753600	7.12	1191014	10.23	546027	12.59	152852	4.69
FA39742-11	1716680	7.12	1148934	10.23	538713	12.59	143339	4.69
FA39742-12	1661745	7.12	1091432	10.23	507980	12.59	111806	4.69
FA39678-2MS	1764582	7.12	1195214	10.23	600150	12.59	168134	4.70
FA39678-2MSD	1908743	7.12	1322042	10.23	644449	12.59	153914	4.70
ZZZZZZ	1973708	7.12	1316178	10.23	598676	12.59	138589	4.69
ZZZZZZ	1806685	7.12	1203754	10.23	565682	12.59	132430	4.69
ZZZZZZ	1740547	7.12	1155916	10.23	542434	12.59	140419	4.70
ZZZZZZ	1665135	7.12	1111065	10.23	511246	12.59	135634	4.70
ZZZZZZ	1642654	7.12	1095690	10.23	511257	12.59	130473	4.69
ZZZZZZ	1625474	7.12	1080306	10.23	501982	12.59	130238	4.69
ZZZZZZ	1600280	7.12	1064657	10.23	496258	12.59	128794	4.70
ZZZZZZ	1561917	7.12	1030350	10.23	471532	12.59	127817	4.69
ZZZZZZ	1563005	7.12	1043486	10.23	468517	12.59	123967	4.70
ZZZZZZ	1512295	7.12	1004905	10.23	473235	12.59	120014	4.69
ZZZZZZ	1486462	7.12	997876	10.23	476970	12.59	119098	4.69
VI1226-ECC1214	1650030	7.12	1183884	10.23	580621	12.59	162905	4.69

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: FA39742
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, Humacao, PR

Check Std:	VI1226-CC1214	**Injection Date:**	12/29/16
Lab File ID:	I44592.D	**Injection Time:**	08:30
Instrument ID:	GCMSI	**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: VI1214-ICC1214 I44368.D 12/22/16 11:46
(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.
(e) No sample available for MS/MSD.

Volatile Internal Standard Area Summary

Job Number: FA39742
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, Humacao, PR

Check Std:	VI1229-CC1214	**Injection Date:**	12/30/16
Lab File ID:	I44649.D	**Injection Time:**	09:35
Instrument ID:	GCMSI	**Method:**	SW846 8260C

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT
Initial Cal [a]	2226204	7.12	1551209	10.23	733696	12.59	205166	4.70
Check Std [b]	2411072	7.11	1605742	10.23	784301	12.59	231442	4.70
Upper Limit [c]	4822144	7.61	3211484	10.73	1568602	13.09	462884	5.20
Lower Limit [d]	1205536	6.61	802871	9.73	392151	12.09	115721	4.20

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT
VI1229-MB	2398966	7.12	1575237	10.23	754600	12.59	208738	4.70
VI1230-MB	2398966	7.12	1575237	10.23	754600	12.59	208738	4.70
VI1229-BS	2386340	7.11	1629610	10.23	776984	12.59	235057	4.70
VI1230-BS	2386340	7.11	1629610	10.23	776984	12.59	235057	4.70
ZZZZZZ	2394804	7.11	1575650	10.23	762385	12.59	205557	4.69
ZZZZZZ	2340999	7.12	1527704	10.23	722118	12.59	200568	4.70
ZZZZZZ	2273967	7.11	1468366	10.23	702150	12.59	178799	4.69
ZZZZZZ	2220926	7.11	1454595	10.23	698496	12.59	176418	4.69
ZZZZZZ	2251672	7.12	1492801	10.23	711661	12.59	171586	4.69
ZZZZZZ	2166622	7.11	1430301	10.23	670142	12.59	174271	4.69
ZZZZZZ	2124614	7.11	1404748	10.23	690851	12.59	167488	4.69
ZZZZZZ	2239437	7.12	1437738	10.23	695741	12.59	172187	4.69
FA39770-9	2253471	7.12	1468941	10.23	696552	12.59	171794	4.69
ZZZZZZ	2184052	7.11	1428833	10.23	688060	12.59	170459	4.69
FA39770-9MS	2226824	7.11	1504507	10.23	743315	12.59	188563	4.69
FA39770-9MSD	2290953	7.12	1544939	10.23	739565	12.59	203319	4.70
FA39770-9	2231145	7.11	1451897	10.23	686381	12.59	179512	4.70
ZZZZZZ	2184448	7.12	1450341	10.23	684506	12.59	174217	4.70
ZZZZZZ	2132678	7.12	1394412	10.23	653348	12.59	162961	4.69
ZZZZZZ	2109535	7.12	1368109	10.23	641613	12.59	150239	4.69
ZZZZZZ	2096097	7.11	1366715	10.23	647176	12.59	162838	4.70
ZZZZZZ	2076736	7.11	1330875	10.23	641803	12.59	159156	4.69
ZZZZZZ	2004332	7.12	1273588	10.23	600057	12.59	145521	4.69
ZZZZZZ	1982592	7.12	1244414	10.23	602169	12.59	150812	4.69
FA39742-6	1926676	7.12	1265659	10.23	584834	12.59	139808	4.69
FA39742-16	1926889	7.12	1283068	10.23	625610	12.59	152461	4.70
FA39742-17	1994749	7.12	1300625	10.23	601838	12.59	159758	4.70
FA39742-16MS	2001847	7.12	1378089	10.23	670746	12.59	204247	4.69
FA39742-16MSD	2177978	7.12	1412379	10.23	706094	12.59	206151	4.70
VI1229-ECC1214	2308963	7.11	1551471	10.23	743281	12.59	224493	4.70

IS 1 = Fluorobenzene
IS 2 = Chlorobenzene-D5

Volatile Internal Standard Area Summary

Job Number: FA39742
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, Humacao, PR

Check Std:	VI1229-CC1214	**Injection Date:**	12/30/16
Lab File ID:	I44649.D	**Injection Time:**	09:35
Instrument ID:	GCMSI	**Method:**	SW846 8260C

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

IS 3 = 1,4-Dichlorobenzene-d4
IS 4 = Tert Butyl Alcohol-D10

(a) Initial Cal is: VI1214-ICC1214 I44368.D 12/22/16 11:46
(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: FA39742
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, Humacao, PR

Check Std:	VJ5530-CC5529	**Injection Date:**	01/03/17
Lab File ID:	J0981914.D	**Injection Time:**	09:16
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]	659574	7.73	466497	10.82	258974	13.18	83169	5.28
Check Std [b]	742866	7.73	531185	10.82	290691	13.19	94854	5.28
Upper Limit [c]	1485732	8.23	1062370	11.32	581382	13.69	189708	5.78
Lower Limit [d]	371433	7.23	265593	10.32	145346	12.69	47427	4.78

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT
VJ5531-MB	721042	7.73	522072	10.82	275491	13.19	98353	5.28
VJ5530-MB	721042	7.73	522072	10.82	275491	13.19	98353	5.28
VJ5531-BS	739069	7.73	520457	10.82	286971	13.19	90045	5.28
VJ5530-BS	739069	7.73	520457	10.82	286971	13.19	90045	5.28
ZZZZZZ	740455	7.73	542048	10.82	276074	13.19	77635	5.28
FA40012-1	686355	7.73	514503	10.82	258723	13.19	79384	5.28
ZZZZZZ	652362	7.73	474595	10.82	245097	13.19	80992	5.27
ZZZZZZ	663273	7.73	481266	10.82	240237	13.19	76728	5.27
ZZZZZZ	620190	7.73	458842	10.82	232178	13.19	79974	5.27
ZZZZZZ	603353	7.73	438249	10.82	217001	13.19	80024	5.27
ZZZZZZ	590237	7.73	430608	10.82	212100	13.19	74524	5.27
ZZZZZZ	587803	7.73	425527	10.82	210004	13.19	75059	5.28
ZZZZZZ	584839	7.73	414747	10.82	206463	13.19	75847	5.27
ZZZZZZ	545133	7.73	408617	10.82	202977	13.19	74355	5.28
ZZZZZZ	553814	7.73	401555	10.82	197686	13.19	78646	5.28
ZZZZZZ	574778	7.73	416675	10.82	205336	13.19	81602	5.27
ZZZZZZ	564383	7.73	403934	10.82	198953	13.19	78632	5.28
ZZZZZZ	551869	7.73	392866	10.82	201851	13.19	73333	5.27
ZZZZZZ	562585	7.73	399508	10.82	191266	13.19	77341	5.27
ZZZZZZ	537493	7.73	381837	10.82	191372	13.19	75275	5.28
FA39907-16	509131	7.73	371728	10.82	184342	13.19	67891	5.28
FA39742-16 [e]	554437	7.73	397790	10.82	204752	13.19	76375	5.28
FA39907-16MS	540182	7.73	363171	10.82	201579	13.19	74692	5.27
FA39907-16MSD	597411	7.73	415456	10.82	220405	13.18	83453	5.28
FA40012-1MS	642750	7.73	448726	10.82	240274	13.19	91896	5.27
FA40012-1MSD	697790	7.73	486867	10.82	259163	13.18	98939	5.27
VJ5530-ECC5529	665139	7.73	466783	10.82	254179	13.19	88420	5.28

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: FA39742
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, Humacao, PR

Check Std:	VJ5530-CC5529	**Injection Date:**	01/03/17
Lab File ID:	J0981914.D	**Injection Time:**	09:16
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: VJ5529-ICC5529 J0981880.D 12/30/16 14:24
(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.
(e) Sample re-analyzed beyond hold time; reported results are considered minimum values.

Volatile Internal Standard Area Summary

Job Number: FA39742
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, Humacao, PR

Check Std:	VJ5532-CC5529	**Injection Date:**	01/04/17
Lab File ID:	J0981946.D	**Injection Time:**	08:58
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]	659574	7.73	466497	10.82	258974	13.18	83169	5.28
Check Std [b]	712752	7.73	487238	10.82	269420	13.19	89750	5.28
Upper Limit [c]	1425504	8.23	974476	11.32	538840	13.69	179500	5.78
Lower Limit [d]	356376	7.23	243619	10.32	134710	12.69	44875	4.78

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT
VJ5532-MB	689021	7.73	502430	10.82	249510	13.18	91781	5.27
VJ5532-BS	699585	7.73	499595	10.82	259936	13.19	90150	5.27
FA39742-17 [e]	693102	7.73	492139	10.82	245507	13.19	95299	5.27
ZZZZZZ	643415	7.73	475141	10.82	230702	13.19	91276	5.28
ZZZZZZ	641756	7.73	455162	10.82	232787	13.18	81791	5.27
ZZZZZZ	608432	7.73	434457	10.82	217301	13.19	75605	5.28
ZZZZZZ	571576	7.73	425793	10.82	206427	13.19	70596	5.27
ZZZZZZ	559079	7.73	410790	10.82	193897	13.19	69735	5.27
ZZZZZZ	550452	7.73	380088	10.82	186010	13.19	69159	5.27
ZZZZZZ	544671	7.73	387279	10.82	193577	13.19	71190	5.27
ZZZZZZ	531648	7.73	384892	10.82	180987	13.19	70285	5.28
ZZZZZZ	525541	7.73	374463	10.82	181295	13.19	71461	5.28
ZZZZZZ	529070	7.73	377248	10.82	187303	13.19	67836	5.28
ZZZZZZ	517012	7.73	369276	10.82	183807	13.19	68519	5.28
FA39942-11	523142	7.73	364363	10.82	182353	13.19	69720	5.28
ZZZZZZ	520001	7.73	355901	10.82	169968	13.19	69965	5.27
FA39942-11MS	520604	7.73	358017	10.82	186746	13.19	66808	5.27
FA39942-11MSD	593877	7.73	418104	10.82	217321	13.19	83240	5.27
VJ5532-ECC5529	527220	7.73	369693	10.82	201240	13.18	67149	5.28

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

(a) Initial Cal is: VJ5529-ICC5529 J0981880.D 12/30/16 14:24
(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.
(e) Sample analyzed beyond hold time; reported results are considered minimum values.

Volatile Surrogate Recovery Summary

Job Number: FA39742
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
FA39742-1	I44601.D	99	106	99	100
FA39742-2	I44549.D	98	102	99	97
FA39742-3	I44550.D	98	104	104	98
FA39742-4	I44551.D	97	107	103	101
FA39742-5	I44552.D	98	106	104	96
FA39742-6	I44673.D	101	103	103	102
FA39742-7	I44553.D	95	106	103	99
FA39742-8	I44554.D	99	110	103	99
FA39742-9	I44555.D	99	106	104	95
FA39742-10	I44556.D	99	108	106	100
FA39742-11	I44602.D	99	109	104	100
FA39742-12	I44603.D	98	108	104	101
FA39742-13	I44557.D	99	106	102	96
FA39742-14	I44558.D	98	107	103	98
FA39742-15	I44559.D	98	107	104	98
FA39742-16	J0981938.D	102	113	102	106
FA39742-16	I44674.D	97	102	104	103
FA39742-17	J0981950.D	102	110	100	107
FA39742-17	I44675.D	96	101	102	97
FA39742-16MS	I44676.D	103	101	101	101
FA39742-16MSD	I44677.D	103	98	106	99
FA39907-16MS	J0981939.D	98	108	104	103
FA39907-16MSD	J0981940.D	97	109	101	107
FA39942-11MS	J0981965.D	93	108	102	104
FA39942-11MSD	J0981966.D	101	109	99	105
VI1223-BS	I44536.D	98	94	101	98
VI1223-MB	I44537.D	97	97	100	101
VI1227-BS	I44593.D	102	97	101	100
VI1227-MB	I44594.D	95	99	99	98
VI1230-BS	I44652.D	103	94	100	102
VI1230-MB	I44651.D	95	95	100	99
VJ5531-BS	J0981918.D	97	104	101	101
VJ5531-MB	J0981917.D	99	108	100	103
VJ5532-BS	J0981949.D	99	108	99	108
VJ5532-MB	J0981948.D	102	111	100	108

Surrogate Compounds	Recovery Limits
S1 = Dibromofluoromethane	83-118%

Volatile Surrogate Recovery Summary

Job Number: FA39742
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

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

Initial Calibration Summary

Job Number: FA39742
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, Humacao, PR
Sample: VI1214-ICC1214
Lab FileID: I44368.D

Response Factor Report MSVOA16

Method : C:\msdchem\2\METHODS\I-DEC22.M (RTE Integrator)
Title : SW-846 Method 5035A/8260B
Last Update : Fri Dec 23 09:02:35 2016
Response via : Initial Calibration

Calibration Files
1 =I44364.D 2 =I44365.D 3 =I44366.D 4 =I44367.D
5 =I44368.D 6 =I44369.D 7 =I44370.D

Compound	1	2	3	4	5	6	7	Avg	%RSD
1) I Fluorobenzene	----------ISTD----------								
2) Dichlorodifluorom	0.330	0.320	0.361	0.323	0.342	0.323	0.333	0.333	4.28
3)P Chloromethane	0.526	0.514	0.545	0.493	0.494	0.478	0.466	0.502	5.52
4) 1,3-Butadiene	0.365	0.366	0.379	0.367	0.344	0.311	0.301	0.348	8.72
5)C Vinyl Chloride	0.372	0.383	0.408	0.386	0.385	0.377	0.371	0.383	3.26
6) Bromomethane	0.166	0.154	0.134	0.123	0.107	0.087	0.077	0.121	27.35
---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9973									
Response Ratio = 0.00000 + 0.12748 *A + -0.02581 *A^2									
7) Chloroethane	0.200	0.182	0.181	0.159	0.137	0.093	0.068	0.146	33.77
---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9926									
Response Ratio = 0.00000 + 0.17656 *A + -0.05499 *A^2									
8) Trichlorofluorome	0.375	0.373	0.390	0.378	0.386	0.349	0.318	0.367	6.85
9) Ethyl Ether	0.304	0.277	0.296	0.294	0.300	0.296	0.285	0.293	3.10
10) 1,2-Dichlorotrifl	0.342	0.329	0.358	0.335	0.337	0.332	0.337	0.339	2.78
11)C 1,1-Dichloroethen	0.457	0.459	0.504	0.483	0.485	0.487	0.497	0.482	3.67
12) Freon 113	0.253	0.253	0.281	0.254	0.273	0.256	0.270	0.263	4.39
13) Carbon Disulfide	0.723	0.742	0.829	0.828	0.873	0.882	0.911	0.827	8.57
14) Iodomethane	0.363	0.346	0.367	0.370	0.379	0.388	0.390	0.372	4.18
15) Allyl chloride	0.266	0.329	0.370	0.432	0.430	0.445	0.441	0.387	17.78
---- Linear regr., Force(0,0) ---- Coefficient = 0.9998									
Response Ratio = 0.00000 + 0.44011 *A									
16) Methylene Chlorid	0.870	0.535	0.532	0.486	0.474	0.466	0.455	0.545	26.90
---- Linear regr., Force(0,0) ---- Coefficient = 0.9997									
Response Ratio = 0.00000 + 0.46137 *A									
17) Acetone	0.081	0.071	0.077	0.080	0.073	0.073	0.073	0.075	5.39
18) Methyl acetate	0.173	0.182	0.204	0.203	0.210	0.207	0.206	0.198	7.10
19) trans-1,2-Dichlor	0.399	0.421	0.467	0.449	0.457	0.450	0.456	0.443	5.40
---- Linear regr., Force(0,0) ---- Coefficient = 0.9999									
Response Ratio = 0.00000 + 0.45394 *A									
20) Hexane	0.338	0.353	0.395	0.356	0.358	0.338	0.342	0.354	5.58
21) Methyl Tert Butyl	0.679	0.635	0.693	0.690	0.710	0.722	0.722	0.693	4.37
22) Acetonitrile	0.018	0.021	0.024	0.026	0.025	0.027	0.028	0.024	14.15
23) Di-isopropyl ethe	0.982	1.001	1.124	1.126	1.133	1.121	1.098	1.083	5.92
24) Chloroprene	0.354	0.446	0.508	0.546	0.545	0.539	0.534	0.496	14.47
25)P 1,1-Dichloroethan	0.517	0.509	0.559	0.540	0.544	0.536	0.538	0.535	3.18
26) Acrylonitrile	0.102	0.100	0.100	0.104	0.113	0.119	0.118	0.108	7.86
27) ETBE	0.822	0.883	1.005	0.995	1.011	1.011	1.001	0.961	7.96
28) Vinyl acetate	0.467	0.617	0.714	0.692	0.723	0.690	0.654	0.651	13.64
29) cis-1,2-Dichloroe	0.246	0.254	0.276	0.269	0.270	0.278	0.284	0.268	5.00
30) 2,2-Dichloropropa	0.254	0.253	0.274	0.261	0.273	0.260	0.259	0.262	3.15
31) Bromochloromethan	0.115	0.113	0.128	0.126	0.128	0.131	0.131	0.125	6.15

Initial Calibration Summary

Job Number: FA39742 **Sample:** VI1214-ICC1214
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** I44368.D
Project: BMSMC, Building 5 Area, Humacao, PR

```
32)  Cyclohexane       0.503 0.545 0.626 0.607 0.625 0.602 0.604 0.588   7.83
33)C Chloroform        0.561 0.487 0.521 0.504 0.498 0.499 0.489 0.508   5.06
34)  Ethyl acetate     0.175 0.250 0.282 0.270 0.287 0.282 0.281 0.261  15.30
            ---- Linear regr., Force(0,0) ----  Coefficient =  0.9998
              Response Ratio = 0.00000 + 0.28132 *A

35)  Tetrahydrofuran   0.142 0.078 0.084 0.078 0.078 0.075 0.075 0.087  28.00
            ---- Linear regr., Force(0,0) ----  Coefficient =  0.9998
              Response Ratio = 0.00000 + 0.07543 *A

36)S Dibromofluorometh 0.246 0.252 0.256 0.248 0.257 0.250 0.257 0.252   1.75
37)  Carbon Tetrachlor 0.256 0.278 0.307 0.301 0.324 0.309 0.317 0.299   7.94
38)  1,1,1-Trichloroet 0.383 0.385 0.418 0.400 0.411 0.399 0.401 0.400   3.13
39)  2-Butanone        0.091 0.096 0.108 0.125 0.116 0.116 0.116 0.110  11.13
40)  1,1-Dichloroprope 0.314 0.330 0.376 0.371 0.374 0.372 0.371 0.358   7.02
41)  tert-Butyl format 0.155 0.168 0.191 0.204 0.214 0.218 0.218 0.195  12.92
42)  Propionitrile     0.032 0.040 0.043 0.043 0.042 0.042 0.040 0.040   9.29
43)  Methacrylonitrile 0.161 0.166 0.178 0.181 0.172 0.156 0.143 0.165   7.94
44)  Benzene           0.926 0.930 1.004 0.955 0.971 0.955 0.926 0.952   2.99
45)  TAME              0.613 0.593 0.682 0.674 0.699 0.702 0.706 0.667   6.83
46)S 1,2-Dichloroethan 0.372 0.369 0.370 0.353 0.351 0.341 0.339 0.356   3.96
47)  1,2-Dichloroethan 0.501 0.429 0.437 0.417 0.410 0.400 0.397 0.427   8.38
48)  Trichloroethene   0.288 0.272 0.291 0.273 0.278 0.272 0.276 0.279   2.80
49)  Methylcyclohexane 0.390 0.435 0.498 0.471 0.499 0.471 0.495 0.465   8.68
50)  Dibromomethane    0.148 0.144 0.159 0.155 0.161 0.164 0.164 0.156   4.94
51)C 1,2-Dichloropropa 0.275 0.276 0.305 0.304 0.307 0.310 0.308 0.298   5.17
52)  Bromodichlorometh 0.248 0.265 0.313 0.330 0.331 0.348 0.343 0.311  12.67
53)  Methyl methacryla 0.101 0.140 0.170 0.213 0.222 0.227 0.229 0.186  26.90
            ---- Linear regr., Force(0,0) ----  Coefficient =  0.9997
              Response Ratio = 0.00000 + 0.22674 *A

54)  2-Chloroethyl vin 0.095 0.127 0.158 0.168 0.182 0.180 0.182 0.156  21.38
            ---- Linear regr., Force(0,0) ----  Coefficient =  0.9997
              Response Ratio = 0.00000 + 0.18096 *A

55)  cis-1,3-Dichlorop 0.225 0.289 0.353 0.374 0.403 0.420 0.420 0.355  20.73
            ---- Linear regr., Force(0,0) ----  Coefficient =  0.9995
              Response Ratio = 0.00000 + 0.41635 *A


56) I   Chlorobenzene-d5      ----------------ISTD---------------------
57)S Toluene-d8        1.384 1.347 1.357 1.382 1.340 1.355 1.404 1.367   1.70
58)C Toluene           1.445 1.343 1.445 1.426 1.398 1.396 1.426 1.411   2.54
59)  2-Nitropropane    0.065 0.064 0.078 0.088 0.090 0.093 0.095 0.082  15.80
            ---- Linear regr., Force(0,0) ----  Coefficient =  0.9996
              Response Ratio = 0.00000 + 0.09353 *A

60)  4-Methyl-2-pentan 0.317 0.354 0.409 0.462 0.413 0.400 0.397 0.393  11.76
61)  trans-1,3-Dichlor 0.242 0.348 0.438 0.474 0.491 0.510 0.518 0.431  23.52
            ---- Linear regr., Force(0,0) ----  Coefficient =  0.9996
              Response Ratio = 0.00000 + 0.51092 *A

62)  Tetrachloroethene 0.312 0.319 0.366 0.359 0.371 0.377 0.381 0.355   7.84
            ---- Linear regr., Force(0,0) ----  Coefficient =  0.9998
              Response Ratio = 0.00000 + 0.37771 *A

63)  Ethyl methacrylat 0.194 0.306 0.379 0.453 0.451 0.469 0.478 0.390  27.14
            ---- Linear regr., Force(0,0) ----  Coefficient =  0.9996
              Response Ratio = 0.00000 + 0.47153 *A
```

Initial Calibration Summary

Job Number: FA39742 **Sample:** VI1214-ICC1214
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** I44368.D
Project: BMSMC, Building 5 Area, Humacao, PR

```
64)  1,1,2-Trichloroet 0.274 0.261 0.291 0.291 0.277 0.279 0.283 0.279   3.72
65)  Dibromochlorometh 0.182 0.221 0.268 0.300 0.313 0.334 0.341 0.280  21.32
            ---- Linear regr., Force(0,0) ----  Coefficient =  0.9991
              Response Ratio = 0.00000 + 0.33466 *A

66)  1,3-Dichloropropa 0.552 0.537 0.596 0.592 0.583 0.594 0.593 0.578   4.10
67)  1,2-Dibromoethane 0.250 0.255 0.293 0.309 0.305 0.313 0.322 0.292   9.78
68)  2-hexanone        0.143 0.247 0.290 0.328 0.294 0.281 0.279 0.266  22.33
            ---- Linear regr., Force(0,0) ----  Coefficient =  0.9977
              Response Ratio = 0.00000 + 0.28259 *A

69)  1-Chlorohexane    0.392 0.446 0.513 0.540 0.551 0.559 0.566 0.510  12.92
70)C Ethylbenzene      1.545 1.526 1.672 1.622 1.595 1.592 1.572 1.589   3.07
71)P Chlorobenzene     1.028 0.956 1.038 1.000 0.988 0.991 0.975 0.996   2.88
72)  1,1,1,2-Tetrachlo 0.247 0.270 0.308 0.309 0.309 0.315 0.322 0.297   9.29
73)  m,p-Xylene        1.006 1.150 1.289 1.319 1.263 1.256 1.256 1.220   8.84
74)  o-Xylene          1.000 1.102 1.311 1.365 1.324 1.350 1.381 1.262  11.79
75)  Styrene           0.509 0.663 0.835 0.890 0.923 0.956 0.960 0.819  20.85
            ---- Linear regr., Force(0,0) ----  Coefficient =  0.9998
              Response Ratio = 0.00000 + 0.95174 *A

76)P Bromoform         0.057 0.086 0.111 0.138 0.153 0.168 0.176 0.127  34.88
            ---- Linear regr., Force(0,0) ----  Coefficient =  0.9971
              Response Ratio = 0.00000 + 0.16993 *A

77)  Isopropylbenzene  1.114 1.323 1.564 1.622 1.566 1.591 1.632 1.487  13.13

78) I   1,4-Dichlorobenzene-d ----------------ISTD--------------------
79)S 4-Bromofluorobenz 0.719 0.716 0.722 0.725 0.726 0.738 0.752 0.728   1.70
80)  cis-1,4-Dichloro-       0.029 0.052 0.085 0.094 0.136 0.137 0.089  48.99
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9914
              Response Ratio = 0.00000 + 0.08061 *A + 0.03019 *A^2

81)  n-Propylbenzene   3.500 3.682 4.156 4.176 4.200 4.360 4.152 4.032   7.79
82)  Bromobenzene      0.698 0.657 0.726 0.726 0.733 0.772 0.732 0.721   4.93
83)P 1,1,2,2-Tetrachlo 0.900 0.815 0.903 0.890 0.915 0.910 0.882 0.888   3.84
84)  1,3,5-Trimethylbe 1.839 2.254 2.611 2.596 2.678 2.709 2.655 2.478  12.92
85)  2-Chlorotoluene   2.497 2.498 2.802 2.747 2.787 2.813 2.733 2.697   5.15
86)  trans-1,4-Dichlor       0.053 0.087 0.122 0.138 0.178 0.181 0.126  39.81
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9953
              Response Ratio = 0.00000 + 0.11972 *A + 0.03224 *A^2

87)  1,2,3-Trichloropr 0.222 0.222 0.237 0.232 0.236 0.234 0.227 0.230   2.79
88)  Cyclohexanone     0.025 0.030 0.031 0.032 0.035 0.039 0.041 0.033  16.74
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9994
              Response Ratio = 0.00000 + 0.03187 *A + 0.00091 *A^2

89)  4-Chlorotoluene   2.142 2.215 2.515 2.551 2.555 2.658 2.535 2.453   7.92
90)  tert-Butylbenzene 1.374 1.556 1.753 1.696 1.737 1.726 1.687 1.647   8.31
91)  a-Methyl styrene  0.709 0.994 1.217 1.469 1.501 1.575 1.536 1.286  25.56
            ---- Linear regr., Force(0,0) ----  Coefficient =  0.9994
              Response Ratio = 0.00000 + 1.53870 *A

92)  1,2,4-Trimethylbe 1.862 2.264 2.588 2.614 2.616 2.627 2.566 2.448  11.78
93)  Pentachloroethane 0.258 0.292 0.327 0.357 0.352 0.363 0.362 0.330  12.38
94)  sec-Butylbenzene  2.663 3.178 3.642 3.647 3.657 3.782 3.592 3.452  11.48
95)  4-Isopropyltoluen 1.696 2.163 2.538 2.632 2.742 2.811 2.792 2.482  16.59
            ---- Linear regr., Force(0,0) ----  Coefficient =  0.9998
              Response Ratio = 0.00000 + 2.78426 *A
```

Initial Calibration Summary

Job Number: FA39742 **Sample:** VI1214-ICC1214
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** I44368.D
Project: BMSMC, Building 5 Area, Humacao, PR

```
 96)  1,3-Dichlorobenze 1.330 1.346 1.497 1.492 1.487 1.520 1.501 1.453   5.48
 97)  1,4-Dichlorobenze 1.330 1.520 1.570 1.566 1.527 1.559 1.518 1.513   5.53
 98)  n-Butylbenzene    1.086 1.361 1.636 1.665 1.726 1.758 1.728 1.566  15.98
             ---- Linear regr., Force(0,0) ----  Coefficient =  0.9998
               Response Ratio = 0.00000 + 1.73261 *A

 99)  Benzyl Chloride   0.107 0.140 0.200 0.248 0.283 0.308 0.308 0.228  35.67
             ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9983
               Response Ratio = 0.00000 + 0.25862 *A + 0.02674 *A^2

100)  1,2-Dichlorobenze 1.301 1.265 1.413 1.405 1.461 1.491 1.481 1.402   6.30
101)  1,2-Dibromo-3-Chl 0.071 0.084 0.101 0.112 0.127 0.138 0.144 0.111  24.76
             ---- Linear regr., Force(0,0) ----  Coefficient =  0.9972
               Response Ratio = 0.00000 + 0.13943 *A

102)  Hexachlorobutadie 0.342 0.327 0.367 0.365 0.380 0.404 0.402 0.369   7.79
103)  1,2,4-Trichlorobe 0.620 0.643 0.769 0.811 0.848 0.941 0.930 0.795  16.03
             ---- Linear regr., Force(0,0) ----  Coefficient =  0.9985
               Response Ratio = 0.00000 + 0.92010 *A

104)  Naphthalene       1.093 1.250 1.631 1.795 1.946 2.077 2.077 1.696  23.22
             ---- Linear regr., Force(0,0) ----  Coefficient =  0.9991
               Response Ratio = 0.00000 + 2.05090 *A

105)  1,2,3-Trichlorobe 0.608 0.618 0.710 0.735 0.802 0.830 0.829 0.733  12.76

106) I   Tert Butyl Alcohol-d1 ----------------ISTD---------------------
107)  Ethanol           0.295 0.188 0.175 0.165 0.145 0.130       0.183  32.02
             ---- Linear regr., Force(0,0) ----  Coefficient =  0.9917
               Response Ratio = 0.00000 + 0.13730 *A

108)  Acrolein          2.060 2.056 2.416 2.604 2.632 2.465 2.331 2.366   9.92
109)  Tert Butyl Alcoho 1.434 1.113 1.350 1.238 1.210 1.213 1.196 1.250   8.54
110)  Isobutyl alcohol  0.376 0.479 0.531 0.623 0.592 0.545 0.524 0.524  15.32
             ---- Linear regr., Force(0,0) ----  Coefficient =  0.9959
               Response Ratio = 0.00000 + 0.53998 *A

111)  Tert Amyl Alcohol 0.819 0.858 0.967 1.014 1.075 1.055 1.055 0.978  10.44
112)  1,4-Dioxane             0.101 0.116 0.116 0.113 0.106 0.104 0.109   5.88
113)  3,3-Dimethyl-1-bu 0.617 0.727 0.962 1.151 1.186 1.220 1.242 1.015  24.96
             ---- Linear regr., Force(0,0) ----  Coefficient =  0.9997
               Response Ratio = 0.00000 + 1.22471 *A

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

           I-DEC22.M         Fri Dec 23 10:06:23 2016
```

Initial Calibration Verification

Job Number: FA39742
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, Humacao, PR
Sample: VI1214-ICV1214
Lab FileID: I44372.D

Evaluate Continuing Calibration Report

Data File : C:\msdchem\2\DATA\122216\I44372.D Vial: 9
Acq On : 22 Dec 2016 1:20 pm Operator: WILFREDO
Sample : ICV1214-5 Inst : MSVOA16
Misc : MS35881,VI1214,,,,, Multiplr: 1.00
MS Integration Params: med.p

Method : C:\msdchem\2\METHODS\I-DEC22.M (RTE Integrator)
Title : SW-846 Method 5035A/8260B
Last Update : Fri Dec 23 09:02:35 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	109	0.00	7.12
2		Dichlorodifluoromethane	0.333	0.337	-1.2	107	0.00	2.27
3	P	Chloromethane	0.502	0.423	15.7	93	0.00	2.48
4		1,3-Butadiene		----------NA----------				
5	C	Vinyl Chloride	0.383	0.341	11.0	96	0.00	2.60
		----------	Amount	Calc.	%Drift		----------	
6		Bromomethane	40.000	34.363	14.1	96	0.00	2.98
7		Chloroethane	40.000	35.396	11.5	97	0.00	3.14
		----------	AvgRF	CCRF	%Dev		----------	
8		Trichlorofluoromethane	0.367	0.357	2.7	101	0.00	3.29
9		Ethyl Ether	0.293	0.276	5.8	100	0.00	3.59
10		1,2-Dichlorotrifluoroetha	0.339	0.343	-1.2	111	0.00	3.78
11	C	1,1-Dichloroethene	0.482	0.483	-0.2	108	0.00	3.82
12		Freon 113	0.263	0.239	9.1	95	0.00	3.89
13		Carbon Disulfide	0.827	0.799	3.4	99	0.00	3.88
14		Iodomethane	0.372	0.365	1.9	105	0.00	3.99
		----------	Amount	Calc.	%Drift		----------	
15		Allyl chloride	40.000	33.021	17.4	92	0.00	4.32
16		Methylene Chloride	40.000	40.109	-0.3	106	0.00	4.43
		----------	AvgRF	CCRF	%Dev		----------	
17		Acetone	0.075	0.066	12.0	98	0.00	4.47
18		Methyl acetate	0.198	0.196	1.0	102	0.00	4.59
		----------	Amount	Calc.	%Drift		----------	
19		trans-1,2-Dichloroethene	40.000	40.905	-2.3	110	0.00	4.61
		----------	AvgRF	CCRF	%Dev		----------	
20		Hexane	0.354	0.331	6.5	101	0.00	4.69
21		Methyl Tert Butyl Ether	0.693	0.704	-1.6	108	0.00	4.71
22		Acetonitrile	0.024	0.020	16.7	89	0.00	4.96
23		Di-isopropyl ether	1.083	1.076	0.6	103	0.00	5.09
24		Chloroprene	0.496	0.459	7.5	91	0.00	5.23
25	P	1,1-Dichloroethane	0.535	0.570	-6.5	114	0.00	5.25
26		Acrylonitrile	0.108	0.102	5.6	98	0.00	5.28
27		ETBE	0.961	0.963	-0.2	103	0.00	5.47
28		Vinyl acetate	0.651	0.645	0.9	97	0.00	5.47
29		cis-1,2-Dichloroethene	0.268	0.287	-7.1	115	0.00	5.82
30		2,2-Dichloropropane	0.262	0.290	-10.7	115	0.00	5.93

Initial Calibration Verification

Job Number: FA39742 **Sample:** VI1214-ICV1214
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** I44372.D
Project: BMSMC, Building 5 Area, Humacao, PR

31		Bromochloromethane	0.125	0.127	-1.6	107	0.00	6.03
32		Cyclohexane	0.588	0.580	1.4	101	0.00	6.06
33	C	Chloroform	0.508	0.507	0.2	111	0.00	6.09
		----------	Amount	Calc.	%Drift		----------	
34		Ethyl acetate	200.000	177.989	11.0	95	0.00	6.17
35		Tetrahydrofuran	40.000	38.050	4.9	101	0.00	6.27
		----------	AvgRF	CCRF	%Dev		----------	
36	S	Dibromofluoromethane	0.252	0.249	1.2	105	0.00	6.27
37		Carbon Tetrachloride	0.299	0.316	-5.7	106	0.00	6.27
38		1,1,1-Trichloroethane	0.400	0.391	2.3	104	0.00	6.33
39		2-Butanone	0.110	0.113	-2.7	105	0.00	6.38
40		1,1-Dichloropropene	0.358	0.371	-3.6	108	0.00	6.45
41		tert-Butyl formate	0.195	0.103	47.2#	52	0.00	6.54
42		Propionitrile	0.040	0.038	5.0	99	0.00	6.69
43		Methacrylonitrile	0.165	0.150	9.1	95	0.00	6.71
44		Benzene	0.952	1.060	-11.3	119	0.00	6.71
45		TAME	0.667	0.691	-3.6	107	0.00	6.79
46	S	1,2-Dichloroethane-d4	0.356	0.338	5.1	105	0.00	6.83
47		1,2-Dichloroethane	0.427	0.418	2.1	111	0.00	6.90
48		Trichloroethene	0.279	0.285	-2.2	111	0.00	7.29
49		Methylcyclohexane	0.465	0.477	-2.6	104	0.00	7.31
50		Dibromomethane	0.156	0.164	-5.1	111	0.00	7.72
51	C	1,2-Dichloropropane	0.298	0.314	-5.4	111	0.00	7.81
52		Bromodichloromethane	0.311	0.351	-12.9	115	0.00	7.87
		----------	Amount	Calc.	%Drift		----------	
53		Methyl methacrylate	40.000	36.295	9.3	101	0.00	7.98
54		2-Chloroethyl vinyl ether	200.000	200.650	-0.3	109	0.00	8.39
55		cis-1,3-Dichloropropene	40.000	40.699	-1.7	114	0.00	8.48
		----------	AvgRF	CCRF	%Dev		----------	
56	I	Chlorobenzene-d5	1.000	1.000	0.0	106	0.00	10.23
57	S	Toluene-d8	1.367	1.352	1.1	107	0.00	8.68
58	C	Toluene	1.411	1.567	-11.1	119	0.00	8.73
		----------	Amount	Calc.	%Drift		----------	
59		2-Nitropropane	200.000	184.605	7.7	101	0.00	8.93
		----------	AvgRF	CCRF	%Dev		----------	
60		4-Methyl-2-pentanone	0.393	0.380	3.3	97	0.00	9.06
		----------	Amount	Calc.	%Drift		----------	
61		trans-1,3-Dichloropropene	40.000	43.251	-8.1	119	0.00	9.12
62		Tetrachloroethene	40.000	38.758	3.1	105	0.00	9.13
63		Ethyl methacrylate	40.000	34.855	12.9	96	0.00	9.24
		----------	AvgRF	CCRF	%Dev		----------	
64		1,1,2-Trichloroethane	0.279	0.296	-6.1	113	0.00	9.28
		----------	Amount	Calc.	%Drift		----------	
65		Dibromochloromethane	40.000	39.285	1.8	111	0.00	9.48
		----------	AvgRF	CCRF	%Dev		----------	
66		1,3-Dichloropropane	0.578	0.594	-2.8	108	0.00	9.56
67		1,2-Dibromoethane	0.292	0.328	-12.3	114	0.00	9.73
		----------	Amount	Calc.	%Drift		----------	

Initial Calibration Verification

Job Number: FA39742
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, Humacao, PR

Sample: VI1214-ICV1214
Lab FileID: I44372.D

68		2-hexanone	200.000	188.715	5.6	96	0.00	9.88
		----------	AvgRF	CCRF	%Dev	----------		
69		1-Chlorohexane	0.510	0.551	-8.0	106	0.00	10.19
70	C	Ethylbenzene	1.589	1.811	-14.0	120	0.00	10.25
71	P	Chlorobenzene	0.996	1.044	-4.8	112	0.00	10.24
72		1,1,1,2-Tetrachloroethane	0.297	0.343	-15.5	118	0.00	10.30
73		m,p-Xylene	1.220	1.382	-13.3	116	0.00	10.39
74		o-Xylene	1.262	1.383	-9.6	111	0.00	10.83
		----------	Amount	Calc.	%Drift	----------		
75		Styrene	40.000	44.308	-10.8	121	0.00	10.88
76	P	Bromoform	40.000	38.272	4.3	113	0.00	10.93
		----------	AvgRF	CCRF	%Dev	----------		
77		Isopropylbenzene	1.487	1.665	-12.0	113	0.00	11.13
78	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	110	0.00	12.59
79	S	4-Bromofluorobenzene	0.728	0.712	2.2	107	0.00	11.44
		----------	Amount	Calc.	%Drift	----------		
80		cis-1,4-Dichloro-2-butene	40.000	38.443	3.9	117	0.00	11.48
		----------	AvgRF	CCRF	%Dev	----------		
81		n-Propylbenzene	4.032	4.349	-7.9	114	0.00	11.55
82		Bromobenzene	0.721	0.830	-15.1	124	0.00	11.56
83	P	1,1,2,2-Tetrachloroethane	0.888	0.890	-0.2	107	0.00	11.62
84		1,3,5-Trimethylbenzene	2.478	2.872	-15.9	118	0.00	11.74
85		2-Chlorotoluene	2.697	2.813	-4.3	111	0.00	11.74
		----------	Amount	Calc.	%Drift	----------		
86		trans-1,4-Dichloro-2-Bute	40.000	37.065	7.3	106	0.00	11.80
		----------	AvgRF	CCRF	%Dev	----------		
87		1,2,3-Trichloropropane	0.230	0.235	-2.2	109	0.00	11.77
		----------	Amount	Calc.	%Drift	----------		
88		Cyclohexanone	200.000	176.594	11.7	96	0.00	11.83
		----------	AvgRF	CCRF	%Dev	----------		
89		4-Chlorotoluene	2.453	2.642	-7.7	113	0.00	11.90
90		tert-Butylbenzene	1.647	1.703	-3.4	107	0.00	12.08
		----------	Amount	Calc.	%Drift	----------		
91		a-Methyl styrene		----------NA----------				
		----------	AvgRF	CCRF	%Dev	----------		
92		1,2,4-Trimethylbenzene	2.448	2.847	-16.3	119	0.00	12.15
93		Pentachloroethane	0.330	0.360	-9.1	112	0.00	12.12
94		sec-Butylbenzene	3.452	3.791	-9.8	114	0.00	12.26
		----------	Amount	Calc.	%Drift	----------		
95		4-Isopropyltoluene	40.000	43.368	-8.4	121	0.00	12.40
		----------	AvgRF	CCRF	%Dev	----------		
96		1,3-Dichlorobenzene	1.453	1.518	-4.5	112	0.00	12.52
97		1,4-Dichlorobenzene	1.513	1.598	-5.6	115	0.00	12.60
		----------	Amount	Calc.	%Drift	----------		
98		n-Butylbenzene	40.000	42.238	-5.6	116	0.00	12.84

Initial Calibration Verification

Job Number: FA39742
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, Humacao, PR

Sample: VI1214-ICV1214
Lab FileID: I44372.D

99	Benzyl Chloride	40.000	39.752	0.6	108	0.00	12.85
	----------	AvgRF	CCRF	%Dev	----------		
100	1,2-Dichlorobenzene	1.402	1.468	-4.7	110	0.00	13.05
	----------	Amount	Calc.	%Drift	----------		
101	1,2-Dibromo-3-Chloropropa	40.000	35.352	11.6	106	0.00	13.83
	----------	AvgRF	CCRF	%Dev	----------		
102	Hexachlorobutadiene	0.369	0.384	-4.1	111	0.00	14.41
	----------	Amount	Calc.	%Drift	----------		
103	1,2,4-Trichlorobenzene	40.000	41.961	-4.9	125	0.00	14.45
104	Naphthalene	40.000	44.311	-10.8	128	0.00	14.73
	----------	AvgRF	CCRF	%Dev	----------		
105	1,2,3-Trichlorobenzene	0.733	0.856	-16.8	117	0.00	14.89
106 I	Tert Butyl Alcohol-d10	1.000	1.000	0.0	102	0.00	4.70
	----------	Amount	Calc.	%Drift	----------		
107	Ethanol	800.000	705.731	11.8	85	0.00	3.73
	----------	AvgRF	CCRF	%Dev	----------		
108	Acrolein	2.366	2.274	3.9	88	0.00	4.17
109	Tert Butyl Alcohol	1.250	1.663	-33.0#	140	0.00	4.78
	----------	Amount	Calc.	%Drift	----------		
110	Isobutyl alcohol	800.000	749.142	6.4	87	0.00	6.84
	----------	AvgRF	CCRF	%Dev	----------		
111	Tert Amyl Alcohol	0.978	0.926	5.3	88	0.00	6.95
112	1,4-Dioxane	0.109	0.117	-7.3	106	0.00	8.05
	----------	Amount	Calc.	%Drift	----------		
113	3,3-Dimethyl-1-butanol	2000.000	2016.963	-0.8	106	0.00	9.84

(#) = Out of Range SPCC's out = 0 CCC's out = 0
I44368.D I-DEC22.M Fri Dec 23 10:09:26 2016

6.7.2

6

Continuing Calibration Summary

Job Number: FA39742 **Sample:** VI1222-CC1214
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** I44535.D
Project: BMSMC, Building 5 Area, Humacao, PR

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\2\DATA\122816\I44535.D            Vial: 3
Acq On    : 28 Dec 2016   8:43 am                     Operator: WILFREDO
Sample    : CC1214-5                                  Inst    : MSVOA16
Misc      : MS35920,VI1222,,,,,                       Multiplr: 1.00
MS Integration Params: med.p

Method       : C:\msdchem\2\METHODS\I-DEC22.M (RTE Integrator)
Title        : SW-846 Method 5035A/8260B
Last Update  : Fri Dec 23 09:02:35 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	103	0.00	7.11
2		Dichlorodifluoromethane	0.333	0.245	26.4#	74	0.00	2.26
3	P	Chloromethane	0.502	0.424	15.5	88	0.00	2.48
4		1,3-Butadiene	0.348	0.263	24.4#	79	0.00	2.61
5	C	Vinyl Chloride	0.383	0.332	13.3	89	0.00	2.60
		----------	Amount	Calc.	%Drift		----------	
6		Bromomethane	40.000	35.214	12.0	93	0.00	2.97
7		Chloroethane	40.000	38.396	4.0	97	0.00	3.13
		----------	AvgRF	CCRF	%Dev		----------	
8		Trichlorofluoromethane	0.367	0.351	4.4	94	0.00	3.29
9		Ethyl Ether	0.293	0.266	9.2	91	0.00	3.58
10		1,2-Dichlorotrifluoroetha	0.339	0.310	8.6	95	0.04	3.82
11	C	1,1-Dichloroethene	0.482	0.435	9.8	92	0.00	3.82
12		Freon 113	0.263	0.238	9.5	90	-0.01	3.89
13		Carbon Disulfide	0.827	0.777	6.0	92	0.00	3.88
14		Iodomethane	0.372	0.348	6.5	95	0.00	3.98
		----------	Amount	Calc.	%Drift		----------	
15		Allyl chloride	40.000	37.928	5.2	100	0.00	4.32
16		Methylene Chloride	40.000	36.943	7.6	93	0.00	4.43
		----------	AvgRF	CCRF	%Dev		----------	
17		Acetone	0.075	0.072	4.0	101	0.00	4.46
18		Methyl acetate	0.198	0.180	9.1	88	0.00	4.59
		----------	Amount	Calc.	%Drift		----------	
19		trans-1,2-Dichloroethene	40.000	36.520	8.7	94	0.00	4.60
		----------	AvgRF	CCRF	%Dev		----------	
20		Hexane	0.354	0.308	13.0	89	0.00	4.68
21		Methyl Tert Butyl Ether	0.693	0.648	6.5	94	0.00	4.70
22		Acetonitrile	0.024	0.023	4.2	96	0.00	4.96
23		Di-isopropyl ether	1.083	1.019	5.9	93	0.00	5.08
24		Chloroprene	0.496	0.503	-1.4	95	0.00	5.23
25	P	1,1-Dichloroethane	0.535	0.503	6.0	95	0.00	5.24
26		Acrylonitrile	0.108	0.107	0.9	97	0.00	5.28
27		ETBE	0.961	0.928	3.4	95	0.00	5.46
28		Vinyl acetate	0.651	0.689	-5.8	98	0.00	5.47
29		cis-1,2-Dichloroethene	0.268	0.257	4.1	98	0.00	5.81
30		2,2-Dichloropropane	0.262	0.257	1.9	97	0.00	5.93

Continuing Calibration Summary

Job Number: FA39742 **Sample:** VI1222-CC1214
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** I44535.D
Project: BMSMC, Building 5 Area, Humacao, PR

31		Bromochloromethane	0.125	0.124	0.8	99	0.00	6.03
32		Cyclohexane	0.588	0.546	7.1	90	0.00	6.06
33	C	Chloroform	0.508	0.466	8.3	96	0.00	6.08
		----------	Amount	Calc.	%Drift		----------	
34		Ethyl acetate	200.000	186.173	6.9	94	0.00	6.17
35		Tetrahydrofuran	40.000	35.818	10.5	90	0.00	6.26
		----------	AvgRF	CCRF	%Dev		----------	
36	S	Dibromofluoromethane	0.252	0.249	1.2	100	0.00	6.28
37		Carbon Tetrachloride	0.299	0.295	1.3	94	0.00	6.26
38		1,1,1-Trichloroethane	0.400	0.383	4.3	96	0.00	6.32
39		2-Butanone	0.110	0.111	-0.9	98	0.00	6.38
40		1,1-Dichloropropene	0.358	0.347	3.1	96	0.00	6.45
41		tert-Butyl formate	0.195	0.226	-15.9	109	0.00	6.53
42		Propionitrile	0.040	0.039	2.5	94	0.00	6.68
43		Methacrylonitrile	0.165	0.152	7.9	91	0.00	6.71
44		Benzene	0.952	0.908	4.6	96	0.00	6.70
45		TAME	0.667	0.648	2.8	96	0.00	6.79
46	S	1,2-Dichloroethane-d4	0.356	0.334	6.2	98	0.00	6.83
47		1,2-Dichloroethane	0.427	0.376	11.9	95	0.00	6.90
48		Trichloroethene	0.279	0.256	8.2	95	0.00	7.29
49		Methylcyclohexane	0.465	0.444	4.5	92	0.00	7.31
50		Dibromomethane	0.156	0.148	5.1	95	0.00	7.72
51	C	1,2-Dichloropropane	0.298	0.286	4.0	96	0.00	7.81
52		Bromodichloromethane	0.311	0.328	-5.5	102	0.00	7.86
		----------	Amount	Calc.	%Drift		----------	
53		Methyl methacrylate	40.000	34.840	12.9	92	0.00	7.98
54		2-Chloroethyl vinyl ether	200.000	195.583	2.2	100	0.00	8.39
55		cis-1,3-Dichloropropene	40.000	37.300	6.8	99	0.00	8.48
		----------	AvgRF	CCRF	%Dev		----------	
56	I	Chlorobenzene-d5	1.000	1.000	0.0	102	0.00	10.23
57	S	Toluene-d8	1.367	1.358	0.7	103	0.00	8.67
58	C	Toluene	1.411	1.333	5.5	97	0.00	8.73
		----------	Amount	Calc.	%Drift		----------	
59		2-Nitropropane	200.000	169.206	15.4	89	0.00	8.93
		----------	AvgRF	CCRF	%Dev		----------	
60		4-Methyl-2-pentanone	0.393	0.390	0.8	96	0.00	9.06
		----------	Amount	Calc.	%Drift		----------	
61		trans-1,3-Dichloropropene	40.000	37.341	6.6	99	0.00	9.12
62		Tetrachloroethene	40.000	34.215	14.5	89	0.00	9.13
63		Ethyl methacrylate	40.000	36.517	8.7	97	0.00	9.24
		----------	AvgRF	CCRF	%Dev		----------	
64		1,1,2-Trichloroethane	0.279	0.265	5.0	97	0.00	9.28
		----------	Amount	Calc.	%Drift		----------	
65		Dibromochloromethane	40.000	37.087	7.3	101	0.00	9.48
		----------	AvgRF	CCRF	%Dev		----------	
66		1,3-Dichloropropane	0.578	0.554	4.2	96	0.00	9.56
67		1,2-Dibromoethane	0.292	0.291	0.3	97	0.00	9.73
		----------	Amount	Calc.	%Drift		----------	

Continuing Calibration Summary

Job Number: FA39742 **Sample:** VI1222-CC1214
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** I44535.D
Project: BMSMC, Building 5 Area, Humacao, PR

68		2-hexanone	200.000	194.003	3.0	95	0.00	9.88
		----------	AvgRF	CCRF	%Dev	----------		
69		1-Chlorohexane	0.510	0.522	-2.4	96	0.00	10.19
70	C	Ethylbenzene	1.589	1.518	4.5	97	0.00	10.25
71	P	Chlorobenzene	0.996	0.942	5.4	97	0.00	10.24
72		1,1,1,2-Tetrachloroethane	0.297	0.302	-1.7	99	0.00	10.29
73		m,p-Xylene	1.220	1.206	1.1	97	0.00	10.39
74		o-Xylene	1.262	1.276	-1.1	98	0.00	10.83
		----------	Amount	Calc.	%Drift	----------		
75		Styrene	40.000	36.508	8.7	96	0.00	10.88
76	P	Bromoform	40.000	37.806	5.5	107	0.00	10.93
		----------	AvgRF	CCRF	%Dev	----------		
77		Isopropylbenzene	1.487	1.521	-2.3	99	0.00	11.13
78	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	104	0.00	12.59
79	S	4-Bromofluorobenzene	0.728	0.726	0.3	104	0.00	11.44
		----------	Amount	Calc.	%Drift	----------		
80		cis-1,4-Dichloro-2-butene	40.000	53.097	-32.7#	167	0.00	11.48
		----------	AvgRF	CCRF	%Dev	----------		
81		n-Propylbenzene	4.032	3.930	2.5	98	0.00	11.55
82		Bromobenzene	0.721	0.695	3.6	99	0.00	11.56
83	P	1,1,2,2-Tetrachloroethane	0.888	0.823	7.3	94	0.00	11.62
84		1,3,5-Trimethylbenzene	2.478	2.536	-2.3	99	0.00	11.74
85		2-Chlorotoluene	2.697	2.623	2.7	98	0.00	11.74
		----------	Amount	Calc.	%Drift	----------		
86		trans-1,4-Dichloro-2-Bute	40.000	48.570	-21.4#	139	0.00	11.80
		----------	AvgRF	CCRF	%Dev	----------		
87		1,2,3-Trichloropropane	0.230	0.217	5.7	96	0.00	11.77
		----------	Amount	Calc.	%Drift	----------		
88		Cyclohexanone	200.000	201.180	-0.6	105	0.00	11.83
		----------	AvgRF	CCRF	%Dev	----------		
89		4-Chlorotoluene	2.453	2.409	1.8	98	0.00	11.90
90		tert-Butylbenzene	1.647	1.584	3.8	95	0.00	12.08
		----------	Amount	Calc.	%Drift	----------		
91		a-Methyl styrene	40.000	37.106	7.2	99	0.00	12.01
		----------	AvgRF	CCRF	%Dev	----------		
92		1,2,4-Trimethylbenzene	2.448	2.473	-1.0	99	0.00	12.15
93		Pentachloroethane	0.330	0.417	-26.4#	124	0.00	12.12
94		sec-Butylbenzene	3.452	3.456	-0.1	99	0.00	12.26
		----------	Amount	Calc.	%Drift	----------		
95		4-Isopropyltoluene	40.000	36.425	8.9	97	0.00	12.40
		----------	AvgRF	CCRF	%Dev	----------		
96		1,3-Dichlorobenzene	1.453	1.442	0.8	101	0.00	12.52
97		1,4-Dichlorobenzene	1.513	1.463	3.3	100	0.00	12.60
		----------	Amount	Calc.	%Drift	----------		
98		n-Butylbenzene	40.000	36.807	8.0	96	0.00	12.84

Continuing Calibration Summary

Job Number: FA39742 **Sample:** VI1222-CC1214
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** I44535.D
Project: BMSMC, Building 5 Area, Humacao, PR

99	Benzyl Chloride	40.000	40.005	-0.0	103	0.00	12.85
	----------	AvgRF	CCRF	%Dev	----------		
100	1,2-Dichlorobenzene	1.402	1.362	2.9	97	0.00	13.05
	----------	Amount	Calc.	%Drift	----------		
101	1,2-Dibromo-3-Chloropropa	40.000	32.888	17.8	94	0.00	13.83
	----------	AvgRF	CCRF	%Dev	----------		
102	Hexachlorobutadiene	0.369	0.357	3.3	98	0.00	14.41
	----------	Amount	Calc.	%Drift	----------		
103	1,2,4-Trichlorobenzene	40.000	36.575	8.6	104	0.00	14.45
104	Naphthalene	40.000	34.657	13.4	95	0.00	14.73
	----------	AvgRF	CCRF	%Dev	----------		
105	1,2,3-Trichlorobenzene	0.733	0.744	-1.5	97	0.00	14.89
106 I	Tert Butyl Alcohol-d10	1.000	1.000	0.0	96	0.00	4.69
	----------	Amount	Calc.	%Drift	----------		
107	Ethanol	800.000	781.335	2.3	88	0.00	3.73
	----------	AvgRF	CCRF	%Dev	----------		
108	Acrolein	2.366	2.639	-11.5	96	0.00	4.17
109	Tert Butyl Alcohol	1.250	1.175	6.0	93	0.00	4.76
	----------	Amount	Calc.	%Drift	----------		
110	Isobutyl alcohol	800.000	799.266	0.1	87	0.00	6.84
	----------	AvgRF	CCRF	%Dev	----------		
111	Tert Amyl Alcohol	0.978	0.999	-2.1	89	0.00	6.95
112	1,4-Dioxane	0.109	0.108	0.9	91	0.00	8.05
	----------	Amount	Calc.	%Drift	----------		
113	3,3-Dimethyl-1-butanol	2000.000	2011.281	-0.6	99	0.00	9.84

(#) = Out of Range SPCC's out = 0 CCC's out = 0
I44368.D I-DEC22.M Wed Dec 28 09:58:21 2016

Continuing Calibration Summary

Job Number: FA39742 **Sample:** VI1222-ECC1214
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** I44561.D
Project: BMSMC, Building 5 Area, Humacao, PR

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\2\DATA\122816\I44561.D            Vial: 24
Acq On    : 28 Dec 2016   8:09 pm                     Operator: WILFREDO
Sample    : ECC1214-5                                 Inst    : MSVOA16
Misc      : MS35941,VI1222,,,,,                       Multiplr: 1.00
MS Integration Params: med.p

Method       : C:\msdchem\2\METHODS\I-DEC22.M (RTE Integrator)
Title        : SW-846 Method 5035A/8260B
Last Update  : Fri Dec 23 09:02:35 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	78	0.00	7.12
2		Dichlorodifluoromethane	0.333	0.342	-2.7	78	0.00	2.27
3	P	Chloromethane	0.502	0.577	-14.9	92	0.00	2.48
4		1,3-Butadiene	0.348	0.404	-16.1	92	0.00	2.61
5	C	Vinyl Chloride	0.383	0.472	-23.2#	96	0.00	2.60
		----------	Amount	Calc.	%Drift		----------	
6		Bromomethane	40.000	50.216	-25.5	93	0.00	2.98
7		Chloroethane	40.000	77.276	-93.2#	101	0.00	3.14
		----------	AvgRF	CCRF	%Dev		----------	
8		Trichlorofluoromethane	0.367	0.472	-28.6	96	0.00	3.29
9		Ethyl Ether	0.293	0.310	-5.8	81	0.00	3.59
10		1,2-Dichlorotrifluoroetha	0.339	0.355	-4.7	83	0.00	3.78
11	C	1,1-Dichloroethene	0.482	0.515	-6.8	83	0.00	3.82
12		Freon 113	0.263	0.264	-0.4	76	0.00	3.90
13		Carbon Disulfide	0.827	0.873	-5.6	78	0.00	3.88
14		Iodomethane	0.372	0.352	5.4	73	0.00	3.99
		----------	Amount	Calc.	%Drift		----------	
15		Allyl chloride	40.000	41.335	-3.3	83	0.00	4.32
16		Methylene Chloride	40.000	47.224	-18.1	90	0.00	4.43
		----------	AvgRF	CCRF	%Dev		----------	
17		Acetone	0.075	0.084	-12.0	90	0.00	4.47
18		Methyl acetate	0.198	0.237	-19.7	88	0.00	4.59
		----------	Amount	Calc.	%Drift		----------	
19		trans-1,2-Dichloroethene	40.000	42.302	-5.8	82	0.00	4.61
		----------	AvgRF	CCRF	%Dev		----------	
20		Hexane	0.354	0.378	-6.8	83	0.00	4.69
21		Methyl Tert Butyl Ether	0.693	0.699	-0.9	77	0.00	4.71
22		Acetonitrile	0.024	0.030	-25.0	95	0.00	4.96
23		Di-isopropyl ether	1.083	1.250	-15.4	86	0.00	5.09
24		Chloroprene	0.496	0.553	-11.5	79	0.00	5.23
25	P	1,1-Dichloroethane	0.535	0.578	-8.0	83	0.00	5.25
26		Acrylonitrile	0.108	0.119	-10.2	83	0.00	5.28
27		ETBE	0.961	1.043	-8.5	81	0.00	5.47
28		Vinyl acetate	0.651	0.782	-20.1	85	0.00	5.47
29		cis-1,2-Dichloroethene	0.268	0.276	-3.0	80	0.00	5.82
30		2,2-Dichloropropane	0.262	0.262	0.0	75	0.00	5.93

Continuing Calibration Summary

Job Number: FA39742 **Sample:** VI1222-ECC1214
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** I44561.D
Project: BMSMC, Building 5 Area, Humacao, PR

31		Bromochloromethane	0.125	0.125	0.0	76	0.00	6.02
32		Cyclohexane	0.588	0.640	-8.8	80	0.00	6.06
33	C	Chloroform	0.508	0.527	-3.7	83	0.00	6.09
		----------	Amount	Calc.	%Drift		----------	
34		Ethyl acetate	200.000	228.435	-14.2	88	0.00	6.17
35		Tetrahydrofuran	40.000	47.176	-17.9	90	0.00	6.27
		----------	AvgRF	CCRF	%Dev		----------	
36	S	Dibromofluoromethane	0.252	0.253	-0.4	77	0.00	6.27
37		Carbon Tetrachloride	0.299	0.317	-6.0	77	0.00	6.27
38		1,1,1-Trichloroethane	0.400	0.417	-4.2	80	0.00	6.33
39		2-Butanone	0.110	0.136	-23.6	92	0.00	6.38
40		1,1-Dichloropropene	0.358	0.393	-9.8	82	0.00	6.45
41		tert-Butyl formate	0.195	0.220	-12.8	80	0.00	6.53
42		Propionitrile	0.040	0.045	-12.5	84	0.00	6.69
43		Methacrylonitrile	0.165	0.203	-23.0	93	0.00	6.71
44		Benzene	0.952	1.013	-6.4	82	0.00	6.71
45		TAME	0.667	0.698	-4.6	78	0.00	6.79
46	S	1,2-Dichloroethane-d4	0.356	0.377	-5.9	84	0.00	6.83
47		1,2-Dichloroethane	0.427	0.451	-5.6	86	0.00	6.90
48		Trichloroethene	0.279	0.285	-2.2	80	0.00	7.29
49		Methylcyclohexane	0.465	0.483	-3.9	76	0.00	7.31
50		Dibromomethane	0.156	0.165	-5.8	80	0.00	7.72
51	C	1,2-Dichloropropane	0.298	0.332	-11.4	85	0.00	7.81
52		Bromodichloromethane	0.311	0.357	-14.8	85	0.00	7.86
		----------	Amount	Calc.	%Drift		----------	
53		Methyl methacrylate	40.000	41.597	-4.0	83	0.00	7.98
54		2-Chloroethyl vinyl ether	200.000	211.306	-5.7	82	0.00	8.39
55		cis-1,3-Dichloropropene	40.000	40.905	-2.3	83	0.00	8.48
		----------	AvgRF	CCRF	%Dev		----------	
56	I	Chlorobenzene-d5	1.000	1.000	0.0	78	0.00	10.23
57	S	Toluene-d8	1.367	1.356	0.8	79	0.00	8.68
58	C	Toluene	1.411	1.443	-2.3	80	0.00	8.73
		----------	Amount	Calc.	%Drift		----------	
59		2-Nitropropane	200.000	219.691	-9.8	89	0.00	8.93
		----------	AvgRF	CCRF	%Dev		----------	
60		4-Methyl-2-pentanone	0.393	0.495	-26.0	93	0.00	9.06
		----------	Amount	Calc.	%Drift		----------	
61		trans-1,3-Dichloropropene	40.000	40.616	-1.5	82	0.00	9.12
62		Tetrachloroethene	40.000	44.819	-12.0	89	0.00	9.13
63		Ethyl methacrylate	40.000	37.682	5.8	76	0.00	9.24
		----------	AvgRF	CCRF	%Dev		----------	
64		1,1,2-Trichloroethane	0.279	0.295	-5.7	83	0.00	9.28
		----------	Amount	Calc.	%Drift		----------	
65		Dibromochloromethane	40.000	37.833	5.4	78	0.00	9.48
		----------	AvgRF	CCRF	%Dev		----------	
66		1,3-Dichloropropane	0.578	0.624	-8.0	83	0.00	9.56
67		1,2-Dibromoethane	0.292	0.312	-6.8	79	0.00	9.73
		----------	Amount	Calc.	%Drift		----------	

Continuing Calibration Summary

Job Number: FA39742 **Sample:** VI1222-ECC1214
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** I44561.D
Project: BMSMC, Building 5 Area, Humacao, PR

68		2-hexanone	200.000	244.192	-22.1	91	0.00	9.88
		----------	AvgRF	CCRF	%Dev	----------		
69		1-Chlorohexane	0.510	0.542	-6.3	76	0.00	10.19
70	C	Ethylbenzene	1.589	1.719	-8.2	84	0.00	10.25
71	P	Chlorobenzene	0.996	1.035	-3.9	81	0.00	10.24
72		1,1,1,2-Tetrachloroethane	0.297	0.329	-10.8	83	0.00	10.29
73		m,p-Xylene	1.220	1.366	-12.0	84	0.00	10.39
74		o-Xylene	1.262	1.409	-11.6	83	0.00	10.83
		----------	Amount	Calc.	%Drift	----------		
75		Styrene	40.000	39.610	1.0	79	0.00	10.88
76	P	Bromoform	40.000	37.106	7.2	80	0.00	10.93
		----------	AvgRF	CCRF	%Dev	----------		
77		Isopropylbenzene	1.487	1.665	-12.0	83	0.00	11.13
78	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	80	0.00	12.59
79	S	4-Bromofluorobenzene	0.728	0.705	3.2	78	0.00	11.44
		----------	Amount	Calc.	%Drift	----------		
80		cis-1,4-Dichloro-2-butene	40.000	47.898	-19.7	112	0.00	11.48
		----------	AvgRF	CCRF	%Dev	----------		
81		n-Propylbenzene	4.032	4.390	-8.9	84	0.00	11.55
82		Bromobenzene	0.721	0.733	-1.7	80	0.00	11.56
83	P	1,1,2,2-Tetrachloroethane	0.888	0.951	-7.1	83	0.00	11.62
84		1,3,5-Trimethylbenzene	2.478	2.770	-11.8	83	0.00	11.74
85		2-Chlorotoluene	2.697	2.933	-8.8	85	0.00	11.74
		----------	Amount	Calc.	%Drift	----------		
86		trans-1,4-Dichloro-2-Bute	40.000	48.487	-21.2	107	0.00	11.80
		----------	AvgRF	CCRF	%Dev	----------		
87		1,2,3-Trichloropropane	0.230	0.239	-3.9	81	0.00	11.77
		----------	Amount	Calc.	%Drift	----------		
88		Cyclohexanone	200.000	171.057	14.5	68	0.00	11.83
		----------	AvgRF	CCRF	%Dev	----------		
89		4-Chlorotoluene	2.453	2.664	-8.6	84	0.00	11.90
90		tert-Butylbenzene	1.647	1.806	-9.7	84	0.00	12.08
		----------	Amount	Calc.	%Drift	----------		
91		a-Methyl styrene	40.000	38.134	4.7	79	0.00	12.01
		----------	AvgRF	CCRF	%Dev	----------		
92		1,2,4-Trimethylbenzene	2.448	2.708	-10.6	83	0.00	12.15
93		Pentachloroethane	0.330	0.257	22.1	59	0.00	12.12
94		sec-Butylbenzene	3.452	3.790	-9.8	83	0.00	12.26
		----------	Amount	Calc.	%Drift	----------		
95		4-Isopropyltoluene	40.000	40.526	-1.3	83	0.00	12.40
		----------	AvgRF	CCRF	%Dev	----------		
96		1,3-Dichlorobenzene	1.453	1.527	-5.1	82	0.00	12.52
97		1,4-Dichlorobenzene	1.513	1.567	-3.6	82	0.00	12.60
		----------	Amount	Calc.	%Drift	----------		
98		n-Butylbenzene	40.000	41.454	-3.6	84	0.00	12.84

Continuing Calibration Summary

Job Number: FA39742 **Sample:** VI1222-ECC1214
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** I44561.D
Project: BMSMC, Building 5 Area, Humacao, PR

99	Benzyl Chloride	40.000	36.964	7.6	73	0.00	12.85
	----------	AvgRF	CCRF	%Dev	----------		
100	1,2-Dichlorobenzene	1.402	1.488	-6.1	82	0.00	13.05
	----------	Amount	Calc.	%Drift	----------		
101	1,2-Dibromo-3-Chloropropa	40.000	37.113	7.2	82	0.00	13.83
	----------	AvgRF	CCRF	%Dev	----------		
102	Hexachlorobutadiene	0.369	0.372	-0.8	79	0.00	14.41
	----------	Amount	Calc.	%Drift	----------		
103	1,2,4-Trichlorobenzene	40.000	38.516	3.7	84	0.00	14.45
104	Naphthalene	40.000	37.467	6.3	79	0.00	14.73
	----------	AvgRF	CCRF	%Dev	----------		
105	1,2,3-Trichlorobenzene	0.733	0.783	-6.8	78	0.00	14.89
106 I	Tert Butyl Alcohol-d10	1.000	1.000	0.0	77	0.00	4.69
	----------	Amount	Calc.	%Drift	----------		
107	Ethanol	800.000	956.414	-19.6	87	0.00	3.73
	----------	AvgRF	CCRF	%Dev	----------		
108	Acrolein	2.366	3.250	-37.4	95	0.00	4.17
109	Tert Butyl Alcohol	1.250	1.278	-2.2	81	0.00	4.78
	----------	Amount	Calc.	%Drift	----------		
110	Isobutyl alcohol	800.000	986.928	-23.4	86	0.00	6.84
	----------	AvgRF	CCRF	%Dev	----------		
111	Tert Amyl Alcohol	0.978	0.969	0.9	69	0.00	6.95
112	1,4-Dioxane	0.109	0.104	4.6	71	0.00	8.05
	----------	Amount	Calc.	%Drift	----------		
113	3,3-Dimethyl-1-butanol	2000.000	2064.631	-3.2	82	0.00	9.84

(#) = Out of Range SPCC's out = 0 CCC's out = 1
I44368.D I-DEC22.M Thu Dec 29 08:29:16 2016

Continuing Calibration Summary

Job Number: FA39742 **Sample:** VI1226-CC1214
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** I44592.D
Project: BMSMC, Building 5 Area, Humacao, PR

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\2\DATA\122916\I44592.D            Vial: 3
Acq On    : 29 Dec 2016   8:30 am                     Operator: WILFREDO
Sample    : CC1214-5                                  Inst    : MSVOA16
Misc      : MS35941,VI1226,,,,,                       Multiplr: 1.00
MS Integration Params: med.p

Method       : C:\msdchem\2\METHODS\I-DEC22.M (RTE Integrator)
Title        : SW-846 Method 5035A/8260B
Last Update  : Fri Dec 23 09:02:35 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	99	0.00	7.11
2		Dichlorodifluoromethane	0.333	0.353	-6.0	102	0.00	2.27
3	P	Chloromethane	0.502	0.510	-1.6	102	0.00	2.48
4		1,3-Butadiene	0.348	0.363	-4.3	104	0.00	2.61
5	C	Vinyl Chloride	0.383	0.400	-4.4	102	0.00	2.61
		----------	Amount	Calc.	%Drift		----------	
6		Bromomethane	40.000	45.851	-14.6	109	0.00	2.98
7		Chloroethane	40.000	47.041	-17.6	106	0.00	3.13
		----------	AvgRF	CCRF	%Dev		----------	
8		Trichlorofluoromethane	0.367	0.405	-10.4	104	0.00	3.29
9		Ethyl Ether	0.293	0.303	-3.4	99	0.00	3.59
10		1,2-Dichlorotrifluoroetha	0.339	0.339	0.0	99	0.00	3.78
11	C	1,1-Dichloroethene	0.482	0.500	-3.7	102	0.00	3.82
12		Freon 113	0.263	0.269	-2.3	97	0.00	3.89
13		Carbon Disulfide	0.827	0.887	-7.3	100	0.00	3.88
14		Iodomethane	0.372	0.389	-4.6	101	0.00	3.98
		----------	Amount	Calc.	%Drift		----------	
15		Allyl chloride	40.000	41.442	-3.6	105	0.00	4.32
16		Methylene Chloride	40.000	41.774	-4.4	100	0.00	4.43
		----------	AvgRF	CCRF	%Dev		----------	
17		Acetone	0.075	0.078	-4.0	106	0.00	4.46
18		Methyl acetate	0.198	0.208	-5.1	98	0.00	4.59
		----------	Amount	Calc.	%Drift		----------	
19		trans-1,2-Dichloroethene	40.000	41.118	-2.8	101	0.00	4.61
		----------	AvgRF	CCRF	%Dev		----------	
20		Hexane	0.354	0.357	-0.8	98	0.00	4.69
21		Methyl Tert Butyl Ether	0.693	0.706	-1.9	98	0.00	4.70
22		Acetonitrile	0.024	0.027	-12.5	110	0.00	4.96
23		Di-isopropyl ether	1.083	1.143	-5.5	99	0.00	5.09
24		Chloroprene	0.496	0.611	-23.2#	110	0.00	5.23
25	P	1,1-Dichloroethane	0.535	0.557	-4.1	101	0.00	5.24
26		Acrylonitrile	0.108	0.115	-6.5	101	0.00	5.28
27		ETBE	0.961	1.004	-4.5	98	0.00	5.46
28		Vinyl acetate	0.651	0.756	-16.1	103	0.00	5.47
29		cis-1,2-Dichloroethene	0.268	0.279	-4.1	102	0.00	5.81
30		2,2-Dichloropropane	0.262	0.291	-11.1	105	0.00	5.93

Continuing Calibration Summary

Job Number: FA39742 **Sample:** VI1226-CC1214
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** I44592.D
Project: BMSMC, Building 5 Area, Humacao, PR

31		Bromochloromethane	0.125	0.129	-3.2	99	0.00	6.03
32		Cyclohexane	0.588	0.621	-5.6	98	0.00	6.06
33	C	Chloroform	0.508	0.505	0.6	100	0.00	6.09
		----------	Amount	Calc.	%Drift		----------	
34		Ethyl acetate	200.000	208.482	-4.2	101	0.00	6.17
35		Tetrahydrofuran	40.000	42.285	-5.7	101	0.00	6.27
		----------	AvgRF	CCRF	%Dev		----------	
36	S	Dibromofluoromethane	0.252	0.259	-2.8	99	0.00	6.28
37		Carbon Tetrachloride	0.299	0.326	-9.0	99	0.00	6.26
38		1,1,1-Trichloroethane	0.400	0.421	-5.2	101	0.00	6.32
39		2-Butanone	0.110	0.122	-10.9	104	0.00	6.38
40		1,1-Dichloropropene	0.358	0.382	-6.7	101	0.00	6.45
41		tert-Butyl formate	0.195	0.223	-14.4	103	0.00	6.53
42		Propionitrile	0.040	0.046	-15.0	107	0.00	6.69
43		Methacrylonitrile	0.165	0.179	-8.5	103	0.00	6.71
44		Benzene	0.952	0.978	-2.7	99	0.00	6.70
45		TAME	0.667	0.692	-3.7	98	0.00	6.79
46	S	1,2-Dichloroethane-d4	0.356	0.350	1.7	98	0.00	6.83
47		1,2-Dichloroethane	0.427	0.417	2.3	100	0.00	6.90
48		Trichloroethene	0.279	0.287	-2.9	102	0.00	7.29
49		Methylcyclohexane	0.465	0.491	-5.6	97	0.00	7.31
50		Dibromomethane	0.156	0.164	-5.1	101	0.00	7.72
51	C	1,2-Dichloropropane	0.298	0.314	-5.4	101	0.00	7.81
52		Bromodichloromethane	0.311	0.346	-11.3	103	0.00	7.86
		----------	Amount	Calc.	%Drift		----------	
53		Methyl methacrylate	40.000	42.805	-7.0	108	0.00	7.98
54		2-Chloroethyl vinyl ether	200.000	208.588	-4.3	102	0.00	8.39
55		cis-1,3-Dichloropropene	40.000	39.138	2.2	100	0.00	8.48
		----------	AvgRF	CCRF	%Dev		----------	
56	I	Chlorobenzene-d5	1.000	1.000	0.0	98	0.00	10.23
57	S	Toluene-d8	1.367	1.383	-1.2	101	0.00	8.68
58	C	Toluene	1.411	1.428	-1.2	100	0.00	8.73
		----------	Amount	Calc.	%Drift		----------	
59		2-Nitropropane	200.000	189.478	5.3	96	0.00	8.93
		----------	AvgRF	CCRF	%Dev		----------	
60		4-Methyl-2-pentanone	0.393	0.422	-7.4	100	0.00	9.06
		----------	Amount	Calc.	%Drift		----------	
61		trans-1,3-Dichloropropene	40.000	38.333	4.2	98	0.00	9.12
62		Tetrachloroethene	40.000	36.614	8.5	92	0.00	9.13
63		Ethyl methacrylate	40.000	41.136	-2.8	105	0.00	9.24
		----------	AvgRF	CCRF	%Dev		----------	
64		1,1,2-Trichloroethane	0.279	0.279	0.0	99	0.00	9.28
		----------	Amount	Calc.	%Drift		----------	
65		Dibromochloromethane	40.000	37.643	5.9	99	0.00	9.48
		----------	AvgRF	CCRF	%Dev		----------	
66		1,3-Dichloropropane	0.578	0.593	-2.6	100	0.00	9.56
67		1,2-Dibromoethane	0.292	0.317	-8.6	102	0.00	9.73
		----------	Amount	Calc.	%Drift		----------	

Continuing Calibration Summary

Job Number: FA39742 **Sample:** VI1226-CC1214
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** I44592.D
Project: BMSMC, Building 5 Area, Humacao, PR

68		2-hexanone	200.000	208.303	-4.2	98	0.00	9.88
		----------	AvgRF	CCRF	%Dev	----------		
69		1-Chlorohexane	0.510	0.550	-7.8	98	0.00	10.19
70	C	Ethylbenzene	1.589	1.609	-1.3	99	0.00	10.25
71	P	Chlorobenzene	0.996	0.991	0.5	98	0.00	10.24
72		1,1,1,2-Tetrachloroethane	0.297	0.314	-5.7	100	0.00	10.30
73		m,p-Xylene	1.220	1.284	-5.2	100	0.00	10.39
74		o-Xylene	1.262	1.372	-8.7	102	0.00	10.83
		----------	Amount	Calc.	%Drift	----------		
75		Styrene	40.000	38.990	2.5	99	0.00	10.88
76	P	Bromoform	40.000	34.483	13.8	94	0.00	10.93
		----------	AvgRF	CCRF	%Dev	----------		
77		Isopropylbenzene	1.487	1.648	-10.8	103	0.00	11.13
78	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	102	0.00	12.59
79	S	4-Bromofluorobenzene	0.728	0.709	2.6	100	0.00	11.44
		----------	Amount	Calc.	%Drift	----------		
80		cis-1,4-Dichloro-2-butene	40.000	22.944	42.6#	59	0.00	11.48
		----------	AvgRF	CCRF	%Dev	----------		
81		n-Propylbenzene	4.032	4.190	-3.9	102	0.00	11.55
82		Bromobenzene	0.721	0.729	-1.1	101	0.00	11.56
83	P	1,1,2,2-Tetrachloroethane	0.888	0.882	0.7	98	0.00	11.62
84		1,3,5-Trimethylbenzene	2.478	2.601	-5.0	99	0.00	11.74
85		2-Chlorotoluene	2.697	2.734	-1.4	100	0.00	11.74
		----------	Amount	Calc.	%Drift	----------		
86		trans-1,4-Dichloro-2-Bute	40.000	24.904	37.7#	63	0.00	11.80
		----------	AvgRF	CCRF	%Dev	----------		
87		1,2,3-Trichloropropane	0.230	0.222	3.5	96	0.00	11.77
		----------	Amount	Calc.	%Drift	----------		
88		Cyclohexanone	200.000	214.353	-7.2	110	0.00	11.83
		----------	AvgRF	CCRF	%Dev	----------		
89		4-Chlorotoluene	2.453	2.541	-3.6	101	0.00	11.90
90		tert-Butylbenzene	1.647	1.680	-2.0	99	0.00	12.08
		----------	Amount	Calc.	%Drift	----------		
91		a-Methyl styrene	40.000	40.776	-1.9	107	0.00	12.01
		----------	AvgRF	CCRF	%Dev	----------		
92		1,2,4-Trimethylbenzene	2.448	2.533	-3.5	99	0.00	12.15
93		Pentachloroethane	0.330	0.414	-25.5#	120	0.00	12.12
94		sec-Butylbenzene	3.452	3.656	-5.9	102	0.00	12.26
		----------	Amount	Calc.	%Drift	----------		
95		4-Isopropyltoluene	40.000	38.346	4.1	99	0.00	12.40
		----------	AvgRF	CCRF	%Dev	----------		
96		1,3-Dichlorobenzene	1.453	1.446	0.5	99	0.00	12.52
97		1,4-Dichlorobenzene	1.513	1.545	-2.1	103	0.00	12.61
		----------	Amount	Calc.	%Drift	----------		
98		n-Butylbenzene	40.000	38.743	3.1	99	0.00	12.84

Continuing Calibration Summary

Job Number: FA39742 **Sample:** VI1226-CC1214
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** I44592.D
Project: BMSMC, Building 5 Area, Humacao, PR

99	Benzyl Chloride	40.000	40.045	-0.1	101	0.00	12.85
	----------	AvgRF	CCRF	%Dev	----------		
100	1,2-Dichlorobenzene	1.402	1.414	-0.9	99	0.00	13.05
	----------	Amount	Calc.	%Drift	----------		
101	1,2-Dibromo-3-Chloropropa	40.000	34.595	13.5	97	0.00	13.83
	----------	AvgRF	CCRF	%Dev	----------		
102	Hexachlorobutadiene	0.369	0.381	-3.3	102	0.00	14.41
	----------	Amount	Calc.	%Drift	----------		
103	1,2,4-Trichlorobenzene	40.000	37.327	6.7	103	0.00	14.45
104	Naphthalene	40.000	37.775	5.6	102	0.00	14.73
	----------	AvgRF	CCRF	%Dev	----------		
105	1,2,3-Trichlorobenzene	0.733	0.761	-3.8	97	0.00	14.89
106 I	Tert Butyl Alcohol-d10	1.000	1.000	0.0	98	0.00	4.69
	----------	Amount	Calc.	%Drift	----------		
107	Ethanol	800.000	837.004	-4.6	97	0.00	3.73
	----------	AvgRF	CCRF	%Dev	----------		
108	Acrolein	2.366	2.581	-9.1	96	0.00	4.17
109	Tert Butyl Alcohol	1.250	1.160	7.2	94	0.00	4.77
	----------	Amount	Calc.	%Drift	----------		
110	Isobutyl alcohol	800.000	901.039	-12.6	100	0.00	6.84
	----------	AvgRF	CCRF	%Dev	----------		
111	Tert Amyl Alcohol	0.978	0.978	0.0	89	0.00	6.95
112	1,4-Dioxane	0.109	0.107	1.8	92	0.00	8.05
	----------	Amount	Calc.	%Drift	----------		
113	3,3-Dimethyl-1-butanol	2000.000	1912.158	4.4	96	0.00	9.84

(#) = Out of Range SPCC's out = 0 CCC's out = 0
I44368.D I-DEC22.M Thu Dec 29 09:17:16 2016

6.7.5
6

Continuing Calibration Summary

Job Number: FA39742 **Sample:** VI1226-ECC1214
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** I44618.D
Project: BMSMC, Building 5 Area, Humacao, PR

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\2\DATA\122916\I44618.D            Vial: 24
Acq On    : 29 Dec 2016   7:07 pm                     Operator: WILFREDO
Sample    : ECC1214-5                                 Inst    : MSVOA16
Misc      : MS35961,VI1226,,,,,                       Multiplr: 1.00
MS Integration Params: med.p

Method       : C:\msdchem\2\METHODS\I-DEC22.M (RTE Integrator)
Title        : SW-846 Method 5035A/8260B
Last Update  : Fri Dec 23 09:02:35 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	74	0.00	7.12
2		Dichlorodifluoromethane	0.333	0.324	2.7	70	0.00	2.26
3	P	Chloromethane	0.502	0.571	-13.7	86	0.00	2.48
4		1,3-Butadiene	0.348	0.415	-19.3	89	0.00	2.61
5	C	Vinyl Chloride	0.383	0.456	-19.1	88	0.00	2.60
		----------	Amount	Calc.	%Drift		----------	
6		Bromomethane	40.000	51.404	-28.5	90	0.00	2.98
7		Chloroethane	40.000	57.312	-43.3	88	0.00	3.14
		----------	AvgRF	CCRF	%Dev		----------	
8		Trichlorofluoromethane	0.367	0.443	-20.7	85	0.00	3.29
9		Ethyl Ether	0.293	0.315	-7.5	78	0.00	3.59
10		1,2-Dichlorotrifluoroetha	0.339	0.334	1.5	74	0.00	3.78
11	C	1,1-Dichloroethene	0.482	0.489	-1.5	75	0.00	3.82
12		Freon 113	0.263	0.248	5.7	67	0.00	3.90
13		Carbon Disulfide	0.827	0.833	-0.7	71	0.00	3.88
14		Iodomethane	0.372	0.357	4.0	70	0.00	3.99
		----------	Amount	Calc.	%Drift		----------	
15		Allyl chloride	40.000	43.401	-8.5	82	0.00	4.32
16		Methylene Chloride	40.000	47.655	-19.1	86	0.00	4.43
		----------	AvgRF	CCRF	%Dev		----------	
17		Acetone	0.075	0.089	-18.7	90	0.00	4.47
18		Methyl acetate	0.198	0.244	-23.2	86	0.00	4.59
		----------	Amount	Calc.	%Drift		----------	
19		trans-1,2-Dichloroethene	40.000	41.371	-3.4	76	0.00	4.61
		----------	AvgRF	CCRF	%Dev		----------	
20		Hexane	0.354	0.360	-1.7	75	0.00	4.69
21		Methyl Tert Butyl Ether	0.693	0.706	-1.9	74	0.00	4.70
22		Acetonitrile	0.024	0.033	-37.5	98	0.00	4.96
23		Di-isopropyl ether	1.083	1.291	-19.2	85	0.00	5.09
24		Chloroprene	0.496	0.561	-13.1	76	0.00	5.23
25	P	1,1-Dichloroethane	0.535	0.571	-6.7	78	0.00	5.24
26		Acrylonitrile	0.108	0.123	-13.9	81	0.00	5.28
27		ETBE	0.961	1.057	-10.0	77	0.00	5.47
28		Vinyl acetate	0.651	0.869	-33.5	89	0.00	5.47
29		cis-1,2-Dichloroethene	0.268	0.276	-3.0	76	0.00	5.82
30		2,2-Dichloropropane	0.262	0.266	-1.5	72	0.00	5.93

Continuing Calibration Summary

Job Number: FA39742 **Sample:** VI1226-ECC1214
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** I44618.D
Project: BMSMC, Building 5 Area, Humacao, PR

31		Bromochloromethane	0.125	0.126	-0.8	73	0.00	6.02
32		Cyclohexane	0.588	0.602	-2.4	71	0.00	6.06
33	C	Chloroform	0.508	0.522	-2.8	78	0.00	6.09
		----------	Amount	Calc.	%Drift	----------		
34		Ethyl acetate	200.000	241.520	-20.8	88	0.00	6.17
35		Tetrahydrofuran	40.000	47.875	-19.7	86	0.00	6.27
		----------	AvgRF	CCRF	%Dev	----------		
36	S	Dibromofluoromethane	0.252	0.257	-2.0	74	0.00	6.27
37		Carbon Tetrachloride	0.299	0.300	-0.3	69	0.00	6.27
38		1,1,1-Trichloroethane	0.400	0.397	0.8	72	0.00	6.32
39		2-Butanone	0.110	0.140	-27.3	89	0.00	6.38
40		1,1-Dichloropropene	0.358	0.371	-3.6	74	0.00	6.45
41		tert-Butyl formate	0.195	0.229	-17.4	79	0.00	6.53
42		Propionitrile	0.040	0.048	-20.0	84	0.00	6.69
43		Methacrylonitrile	0.165	0.216	-30.9	93	0.00	6.71
44		Benzene	0.952	0.986	-3.6	75	0.00	6.71
45		TAME	0.667	0.700	-4.9	74	0.00	6.79
46	S	1,2-Dichloroethane-d4	0.356	0.383	-7.6	81	0.00	6.83
47		1,2-Dichloroethane	0.427	0.453	-6.1	82	0.00	6.90
48		Trichloroethene	0.279	0.278	0.4	74	0.00	7.29
49		Methylcyclohexane	0.465	0.456	1.9	68	0.00	7.31
50		Dibromomethane	0.156	0.166	-6.4	77	0.00	7.72
51	C	1,2-Dichloropropane	0.298	0.331	-11.1	80	0.00	7.81
52		Bromodichloromethane	0.311	0.358	-15.1	80	0.00	7.86
		----------	Amount	Calc.	%Drift	----------		
53		Methyl methacrylate	40.000	44.831	-12.1	85	0.00	7.98
54		2-Chloroethyl vinyl ether	200.000	217.234	-8.6	80	0.00	8.39
55		cis-1,3-Dichloropropene	40.000	40.497	-1.2	78	0.00	8.48
		----------	AvgRF	CCRF	%Dev	----------		
56	I	Chlorobenzene-d5	1.000	1.000	0.0	76	0.00	10.23
57	S	Toluene-d8	1.367	1.346	1.5	77	0.00	8.68
58	C	Toluene	1.411	1.367	3.1	75	0.00	8.73
		----------	Amount	Calc.	%Drift	----------		
59		2-Nitropropane	200.000	212.838	-6.4	84	0.00	8.93
		----------	AvgRF	CCRF	%Dev	----------		
60		4-Methyl-2-pentanone	0.393	0.476	-21.1	88	0.00	9.06
		----------	Amount	Calc.	%Drift	----------		
61		trans-1,3-Dichloropropene	40.000	39.096	2.3	78	0.00	9.12
62		Tetrachloroethene	40.000	36.910	7.7	72	0.00	9.13
63		Ethyl methacrylate	40.000	38.574	3.6	77	0.00	9.24
		----------	AvgRF	CCRF	%Dev	----------		
64		1,1,2-Trichloroethane	0.279	0.287	-2.9	79	0.00	9.29
		----------	Amount	Calc.	%Drift	----------		
65		Dibromochloromethane	40.000	35.397	11.5	72	0.00	9.48
		----------	AvgRF	CCRF	%Dev	----------		
66		1,3-Dichloropropane	0.578	0.602	-4.2	79	0.00	9.56
67		1,2-Dibromoethane	0.292	0.302	-3.4	76	0.00	9.73
		----------	Amount	Calc.	%Drift	----------		

Continuing Calibration Summary

Job Number: FA39742 **Sample:** VI1226-ECC1214
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** I44618.D
Project: BMSMC, Building 5 Area, Humacao, PR

68		2-hexanone	200.000	240.253	-20.1	88	0.00	9.88
		----------	AvgRF	CCRF	%Dev	----------		
69		1-Chlorohexane	0.510	0.490	3.9	68	0.00	10.19
70	C	Ethylbenzene	1.589	1.619	-1.9	77	0.00	10.25
71	P	Chlorobenzene	0.996	0.988	0.8	76	0.00	10.24
72		1,1,1,2-Tetrachloroethane	0.297	0.312	-5.1	77	0.00	10.30
73		m,p-Xylene	1.220	1.272	-4.3	77	0.00	10.39
74		o-Xylene	1.262	1.330	-5.4	77	0.00	10.83
		----------	Amount	Calc.	%Drift	----------		
75		Styrene	40.000	37.560	6.1	74	0.00	10.88
76	P	Bromoform	40.000	32.758	18.1	70	0.00	10.93
		----------	AvgRF	CCRF	%Dev	----------		
77		Isopropylbenzene	1.487	1.526	-2.6	74	0.00	11.13
78	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	79	0.00	12.59
79	S	4-Bromofluorobenzene	0.728	0.694	4.7	76	0.00	11.44
		----------	Amount	Calc.	%Drift	----------		
80		cis-1,4-Dichloro-2-butene	40.000	38.974	2.6	86	0.00	11.48
		----------	AvgRF	CCRF	%Dev	----------		
81		n-Propylbenzene	4.032	4.060	-0.7	76	0.00	11.55
82		Bromobenzene	0.721	0.699	3.1	75	0.00	11.56
83	P	1,1,2,2-Tetrachloroethane	0.888	0.913	-2.8	79	0.00	11.62
84		1,3,5-Trimethylbenzene	2.478	2.586	-4.4	76	0.00	11.74
85		2-Chlorotoluene	2.697	2.759	-2.3	78	0.00	11.74
		----------	Amount	Calc.	%Drift	----------		
86		trans-1,4-Dichloro-2-Bute	40.000	39.305	1.7	82	0.00	11.80
		----------	AvgRF	CCRF	%Dev	----------		
87		1,2,3-Trichloropropane	0.230	0.226	1.7	76	0.00	11.77
		----------	Amount	Calc.	%Drift	----------		
88		Cyclohexanone	200.000	249.434	-24.7	101	0.00	11.83
		----------	AvgRF	CCRF	%Dev	----------		
89		4-Chlorotoluene	2.453	2.523	-2.9	78	0.00	11.90
90		tert-Butylbenzene	1.647	1.656	-0.5	75	0.00	12.08
		----------	Amount	Calc.	%Drift	----------		
91		a-Methyl styrene	40.000	37.742	5.6	77	0.00	12.01
		----------	AvgRF	CCRF	%Dev	----------		
92		1,2,4-Trimethylbenzene	2.448	2.542	-3.8	77	0.00	12.15
93		Pentachloroethane	0.330	0.314	4.8	71	0.00	12.12
94		sec-Butylbenzene	3.452	3.447	0.1	75	0.00	12.26
		----------	Amount	Calc.	%Drift	----------		
95		4-Isopropyltoluene	40.000	36.963	7.6	74	0.00	12.40
		----------	AvgRF	CCRF	%Dev	----------		
96		1,3-Dichlorobenzene	1.453	1.449	0.3	77	0.00	12.52
97		1,4-Dichlorobenzene	1.513	1.500	0.9	78	0.00	12.61
		----------	Amount	Calc.	%Drift	----------		
98		n-Butylbenzene	40.000	38.692	3.3	77	0.00	12.84

Continuing Calibration Summary

Job Number: FA39742 **Sample:** VI1226-ECC1214
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** I44618.D
Project: BMSMC, Building 5 Area, Humacao, PR

99	Benzyl Chloride	40.000	36.773	8.1	72	0.00	12.85
		AvgRF	CCRF	%Dev			
100	1,2-Dichlorobenzene	1.402	1.414	-0.9	77	0.00	13.05
		Amount	Calc.	%Drift			
101	1,2-Dibromo-3-Chloropropa	40.000	34.358	14.1	75	0.00	13.83
		AvgRF	CCRF	%Dev			
102	Hexachlorobutadiene	0.369	0.337	8.7	70	0.00	14.41
		Amount	Calc.	%Drift			
103	1,2,4-Trichlorobenzene	40.000	36.047	9.9	77	0.00	14.45
104	Naphthalene	40.000	36.714	8.2	77	0.00	14.73
		AvgRF	CCRF	%Dev			
105	1,2,3-Trichlorobenzene	0.733	0.740	-1.0	73	0.00	14.89
106 I	Tert Butyl Alcohol-d10	1.000	1.000	0.0	79	0.00	4.69
		Amount	Calc.	%Drift			
107	Ethanol	800.000	853.067	-6.6	80	0.00	3.72
		AvgRF	CCRF	%Dev			
108	Acrolein	2.366	2.694	-13.9	81	0.00	4.17
109	Tert Butyl Alcohol	1.250	1.190	4.8	78	0.00	4.77
		Amount	Calc.	%Drift			
110	Isobutyl alcohol	800.000	950.703	-18.8	86	0.00	6.84
		AvgRF	CCRF	%Dev			
111	Tert Amyl Alcohol	0.978	1.004	-2.7	74	0.00	6.95
112	1,4-Dioxane	0.109	0.098	10.1	69	0.00	8.05
		Amount	Calc.	%Drift			
113	3,3-Dimethyl-1-butanol	2000.000	1919.248	4.0	79	0.00	9.84

(#) = Out of Range SPCC's out = 0 CCC's out = 0
I44368.D I-DEC22.M Fri Dec 30 09:43:43 2016

Continuing Calibration Summary

Job Number: FA39742 **Sample:** VI1229-CC1214
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** I44649.D
Project: BMSMC, Building 5 Area, Humacao, PR

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\2\DATA\123016\I44649.D            Vial: 3
Acq On    : 30 Dec 2016   9:35 am                     Operator: WILFREDO
Sample    : CC1214-5                                  Inst    : MSVOA16
Misc      : MS35962,VI1229,,,,,                       Multiplr: 1.00
MS Integration Params: med.p

Method       : C:\msdchem\2\METHODS\I-DEC22.M (RTE Integrator)
Title        : SW-846 Method 5035A/8260B
Last Update  : Fri Dec 23 09:02:35 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	108	0.00	7.11
2		Dichlorodifluoromethane	0.333	0.327	1.8	104	0.00	2.27
3	P	Chloromethane	0.502	0.457	9.0	100	0.00	2.48
4		1,3-Butadiene	0.348	0.245	29.6#	77	0.00	2.61
5	C	Vinyl Chloride	0.383	0.350	8.6	98	0.00	2.61
		----------	Amount	Calc.	%Drift		----------	
6		Bromomethane	40.000	34.054	14.9	95	0.00	2.98
7		Chloroethane	40.000	32.166	19.6	90	0.00	3.14
		----------	AvgRF	CCRF	%Dev		----------	
8		Trichlorofluoromethane	0.367	0.350	4.6	98	0.00	3.29
9		Ethyl Ether	0.293	0.272	7.2	98	0.00	3.59
10		1,2-Dichlorotrifluoroetha	0.339	0.312	8.0	100	0.05	3.83
11	C	1,1-Dichloroethene	0.482	0.455	5.6	102	0.00	3.82
12		Freon 113	0.263	0.251	4.6	100	0.00	3.90
13		Carbon Disulfide	0.827	0.817	1.2	101	0.00	3.88
14		Iodomethane	0.372	0.373	-0.3	107	0.00	3.99
		----------	Amount	Calc.	%Drift		----------	
15		Allyl chloride	40.000	35.836	10.4	99	0.00	4.32
16		Methylene Chloride	40.000	37.101	7.2	98	0.00	4.43
		----------	AvgRF	CCRF	%Dev		----------	
17		Acetone	0.075	0.070	6.7	105	0.00	4.47
18		Methyl acetate	0.198	0.185	6.6	96	0.00	4.59
		----------	Amount	Calc.	%Drift		----------	
19		trans-1,2-Dichloroethene	40.000	37.857	5.4	102	0.00	4.61
		----------	AvgRF	CCRF	%Dev		----------	
20		Hexane	0.354	0.328	7.3	99	0.00	4.69
21		Methyl Tert Butyl Ether	0.693	0.672	3.0	103	0.00	4.71
22		Acetonitrile	0.024	0.025	-4.2	111	0.00	4.96
23		Di-isopropyl ether	1.083	1.024	5.4	98	0.00	5.09
24		Chloroprene	0.496	0.497	-0.2	99	0.00	5.23
25	P	1,1-Dichloroethane	0.535	0.508	5.0	101	0.00	5.25
26		Acrylonitrile	0.108	0.105	2.8	101	0.00	5.28
27		ETBE	0.961	0.933	2.9	100	0.00	5.47
28		Vinyl acetate	0.651	0.657	-0.9	98	0.00	5.47
29		cis-1,2-Dichloroethene	0.268	0.266	0.7	107	0.00	5.81
30		2,2-Dichloropropane	0.262	0.260	0.8	103	0.00	5.93

Continuing Calibration Summary

Job Number: FA39742 **Sample:** VI1229-CC1214
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** I44649.D
Project: BMSMC, Building 5 Area, Humacao, PR

31		Bromochloromethane	0.125	0.125	0.0	106	0.00	6.03
32		Cyclohexane	0.588	0.573	2.6	99	0.00	6.06
33	C	Chloroform	0.508	0.476	6.3	104	0.00	6.09
		----------	Amount	Calc.	%Drift		----------	
34		Ethyl acetate	200.000	184.290	7.9	98	0.00	6.17
35		Tetrahydrofuran	40.000	37.578	6.1	99	0.00	6.27
		----------	AvgRF	CCRF	%Dev		----------	
36	S	Dibromofluoromethane	0.252	0.251	0.4	106	0.00	6.28
37		Carbon Tetrachloride	0.299	0.299	0.0	100	0.00	6.26
38		1,1,1-Trichloroethane	0.400	0.396	1.0	104	0.00	6.32
39		2-Butanone	0.110	0.110	0.0	102	0.00	6.38
40		1,1-Dichloropropene	0.358	0.359	-0.3	104	0.00	6.45
41		tert-Butyl formate	0.195	0.213	-9.2	108	0.00	6.53
42		Propionitrile	0.040	0.040	0.0	101	0.00	6.69
43		Methacrylonitrile	0.165	0.150	9.1	95	0.00	6.71
44		Benzene	0.952	0.921	3.3	103	0.00	6.70
45		TAME	0.667	0.658	1.3	102	0.00	6.79
46	S	1,2-Dichloroethane-d4	0.356	0.331	7.0	102	0.00	6.83
47		1,2-Dichloroethane	0.427	0.377	11.7	100	0.00	6.90
48		Trichloroethene	0.279	0.263	5.7	102	0.00	7.29
49		Methylcyclohexane	0.465	0.460	1.1	100	0.00	7.31
50		Dibromomethane	0.156	0.152	2.6	103	0.00	7.72
51	C	1,2-Dichloropropane	0.298	0.296	0.7	104	0.00	7.81
52		Bromodichloromethane	0.311	0.333	-7.1	109	0.00	7.86
		----------	Amount	Calc.	%Drift		----------	
53		Methyl methacrylate	40.000	35.748	10.6	99	0.00	7.98
54		2-Chloroethyl vinyl ether	200.000	192.844	3.6	104	0.00	8.39
55		cis-1,3-Dichloropropene	40.000	37.428	6.4	105	0.00	8.48
		----------	AvgRF	CCRF	%Dev		----------	
56	I	Chlorobenzene-d5	1.000	1.000	0.0	104	0.00	10.23
57	S	Toluene-d8	1.367	1.405	-2.8	109	0.00	8.68
58	C	Toluene	1.411	1.394	1.2	103	0.00	8.73
		----------	Amount	Calc.	%Drift		----------	
59		2-Nitropropane	200.000	179.853	10.1	97	0.00	8.93
		----------	AvgRF	CCRF	%Dev		----------	
60		4-Methyl-2-pentanone	0.393	0.388	1.3	97	0.00	9.06
		----------	Amount	Calc.	%Drift		----------	
61		trans-1,3-Dichloropropene	40.000	38.633	3.4	104	0.00	9.12
62		Tetrachloroethene	40.000	36.475	8.8	96	0.00	9.13
63		Ethyl methacrylate	40.000	38.437	3.9	104	0.00	9.24
		----------	AvgRF	CCRF	%Dev		----------	
64		1,1,2-Trichloroethane	0.279	0.280	-0.4	105	0.00	9.28
		----------	Amount	Calc.	%Drift		----------	
65		Dibromochloromethane	40.000	38.620	3.5	107	0.00	9.48
		----------	AvgRF	CCRF	%Dev		----------	
66		1,3-Dichloropropane	0.578	0.579	-0.2	103	0.00	9.56
67		1,2-Dibromoethane	0.292	0.314	-7.5	107	0.00	9.73
		----------	Amount	Calc.	%Drift		----------	

Continuing Calibration Summary

Job Number: FA39742 **Sample:** VI1229-CC1214
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** I44649.D
Project: BMSMC, Building 5 Area, Humacao, PR

68		2-hexanone	200.000	193.763	3.1	96	0.00	9.88
		----------	AvgRF	CCRF	%Dev	----------		
69		1-Chlorohexane	0.510	0.542	-6.3	102	0.00	10.19
70	C	Ethylbenzene	1.589	1.569	1.3	102	0.00	10.25
71	P	Chlorobenzene	0.996	0.966	3.0	101	0.00	10.24
72		1,1,1,2-Tetrachloroethane	0.297	0.310	-4.4	104	0.00	10.29
73		m,p-Xylene	1.220	1.270	-4.1	104	0.00	10.39
74		o-Xylene	1.262	1.354	-7.3	106	0.00	10.83
		----------	Amount	Calc.	%Drift	----------		
75		Styrene	40.000	38.965	2.6	104	0.00	10.88
76	P	Bromoform	40.000	37.972	5.1	109	0.00	10.93
		----------	AvgRF	CCRF	%Dev	----------		
77		Isopropylbenzene	1.487	1.606	-8.0	106	0.00	11.13
78	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	107	0.00	12.59
79	S	4-Bromofluorobenzene	0.728	0.753	-3.4	111	0.00	11.44
		----------	Amount	Calc.	%Drift	----------		
80		cis-1,4-Dichloro-2-butene	40.000	45.728	-14.3	141	0.00	11.48
		----------	AvgRF	CCRF	%Dev	----------		
81		n-Propylbenzene	4.032	4.086	-1.3	104	0.00	11.55
82		Bromobenzene	0.721	0.721	0.0	105	0.00	11.56
83	P	1,1,2,2-Tetrachloroethane	0.888	0.865	2.6	101	0.00	11.62
84		1,3,5-Trimethylbenzene	2.478	2.550	-2.9	102	0.00	11.74
85		2-Chlorotoluene	2.697	2.630	2.5	101	0.00	11.74
		----------	Amount	Calc.	%Drift	----------		
86		trans-1,4-Dichloro-2-Bute	40.000	44.328	-10.8	127	0.00	11.80
		----------	AvgRF	CCRF	%Dev	----------		
87		1,2,3-Trichloropropane	0.230	0.228	0.9	103	0.00	11.77
		----------	Amount	Calc.	%Drift	----------		
88		Cyclohexanone	200.000	220.414	-10.2	119	0.00	11.83
		----------	AvgRF	CCRF	%Dev	----------		
89		4-Chlorotoluene	2.453	2.500	-1.9	105	0.00	11.90
90		tert-Butylbenzene	1.647	1.627	1.2	100	0.00	12.08
		----------	Amount	Calc.	%Drift	----------		
91		a-Methyl styrene	40.000	37.470	6.3	103	0.00	12.01
		----------	AvgRF	CCRF	%Dev	----------		
92		1,2,4-Trimethylbenzene	2.448	2.540	-3.8	104	0.00	12.15
93		Pentachloroethane	0.330	0.401	-21.5#	122	0.00	12.12
94		sec-Butylbenzene	3.452	3.561	-3.2	104	0.00	12.26
		----------	Amount	Calc.	%Drift	----------		
95		4-Isopropyltoluene	40.000	37.601	6.0	102	0.00	12.40
		----------	AvgRF	CCRF	%Dev	----------		
96		1,3-Dichlorobenzene	1.453	1.477	-1.7	106	0.00	12.52
97		1,4-Dichlorobenzene	1.513	1.512	0.1	106	0.00	12.60
		----------	Amount	Calc.	%Drift	----------		
98		n-Butylbenzene	40.000	38.778	3.1	104	0.00	12.84

Continuing Calibration Summary

Job Number: FA39742 **Sample:** VI1229-CC1214
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** I44649.D
Project: BMSMC, Building 5 Area, Humacao, PR

```
 99      Benzyl Chloride            40.000  41.418     -3.5  110   0.00   12.85

            ----------------------- AvgRF   CCRF      %Dev   --------------
100      1,2-Dichlorobenzene         1.402   1.386      1.1  101   0.00   13.05

            ----------------------- Amount  Calc.    %Drift   -------------
101      1,2-Dibromo-3-Chloropropa  40.000  34.063     14.8  100   0.00   13.83

            ----------------------- AvgRF   CCRF      %Dev   --------------
102      Hexachlorobutadiene         0.369   0.379     -2.7  107   0.00   14.41

            ----------------------- Amount  Calc.    %Drift   -------------
103      1,2,4-Trichlorobenzene     40.000  37.202      7.0  108   0.00   14.45
104      Naphthalene                40.000  37.841      5.4  107   0.00   14.73

            ----------------------- AvgRF   CCRF      %Dev   --------------
105      1,2,3-Trichlorobenzene      0.733   0.759     -3.5  101   0.00   14.89

106 I    Tert Butyl Alcohol-d10      1.000   1.000      0.0  113   0.00    4.70

            ----------------------- Amount  Calc.    %Drift   -------------
107      Ethanol                   800.000 785.396      1.8  105   0.00    3.73

            ----------------------- AvgRF   CCRF      %Dev   --------------
108      Acrolein                    2.366   2.321      1.9   99   0.00    4.17
109      Tert Butyl Alcohol          1.250   1.228      1.8  115   0.00    4.77

            ----------------------- Amount  Calc.    %Drift   -------------
110      Isobutyl alcohol          800.000 787.903      1.5  101   0.00    6.84

            ----------------------- AvgRF   CCRF      %Dev   --------------
111      Tert Amyl Alcohol           0.978   1.017     -4.0  107   0.00    6.95
112      1,4-Dioxane                 0.109   0.111     -1.8  111   0.00    8.05

            ----------------------- Amount  Calc.    %Drift   -------------
113      3,3-Dimethyl-1-butanol    2000.000 1863.448      6.8  109   0.00    9.84
 ---------------------------------------------------------------------------
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    (#) = Out of Range              SPCC's out = 0  CCC's out = 0
     I44368.D   I-DEC22.M        Fri Dec 30 11:10:28 2016
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6.7.7

6

Continuing Calibration Summary

Job Number: FA39742 **Sample:** VI1229-ECC1214
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** I44678.D
Project: BMSMC, Building 5 Area, Humacao, PR

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\2\DATA\123016\I44678.D            Vial: 27
Acq On    : 30 Dec 2016   9:19 pm                     Operator: WILFREDO
Sample    : ECC1214-5                                 Inst    : MSVOA16
Misc      : MS35973,VI1229,,,,,                       Multiplr: 1.00
MS Integration Params: med.p

Method       : C:\msdchem\2\METHODS\I-DEC22.M (RTE Integrator)
Title        : SW-846 Method 5035A/8260B
Last Update  : Fri Dec 23 09:02:35 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	104	0.00	7.11
2		Dichlorodifluoromethane	0.333	0.287	13.8	87	0.00	2.27
3	P	Chloromethane	0.502	0.462	8.0	97	0.00	2.48
4		1,3-Butadiene	0.348	0.271	22.1	82	0.00	2.61
5	C	Vinyl Chloride	0.383	0.359	6.3	97	0.00	2.61
		----------	Amount	Calc.	%Drift		----------	
6		Bromomethane	40.000	33.328	16.7	89	0.00	2.98
7		Chloroethane	40.000	33.673	15.8	89	0.00	3.14
		----------	AvgRF	CCRF	%Dev		----------	
8		Trichlorofluoromethane	0.367	0.341	7.1	92	0.00	3.29
9		Ethyl Ether	0.293	0.285	2.7	98	0.00	3.59
10		1,2-Dichlorotrifluoroetha	0.339	0.316	6.8	97	0.04	3.82
11	C	1,1-Dichloroethene	0.482	0.466	3.3	100	0.00	3.82
12		Freon 113	0.263	0.248	5.7	94	0.00	3.90
13		Carbon Disulfide	0.827	0.831	-0.5	99	0.00	3.88
14		Iodomethane	0.372	0.360	3.2	99	0.00	3.99
		----------	Amount	Calc.	%Drift		----------	
15		Allyl chloride	40.000	40.675	-1.7	108	0.00	4.32
16		Methylene Chloride	40.000	39.047	2.4	99	0.00	4.43
		----------	AvgRF	CCRF	%Dev		----------	
17		Acetone	0.075	0.070	6.7	100	0.00	4.47
18		Methyl acetate	0.198	0.201	-1.5	99	0.00	4.59
		----------	Amount	Calc.	%Drift		----------	
19		trans-1,2-Dichloroethene	40.000	38.634	3.4	100	0.00	4.61
		----------	AvgRF	CCRF	%Dev		----------	
20		Hexane	0.354	0.322	9.0	93	0.00	4.69
21		Methyl Tert Butyl Ether	0.693	0.681	1.7	100	0.00	4.71
22		Acetonitrile	0.024	0.028	-16.7	120	0.00	4.96
23		Di-isopropyl ether	1.083	1.098	-1.4	101	0.00	5.09
24		Chloroprene	0.496	0.564	-13.7	107	0.00	5.23
25	P	1,1-Dichloroethane	0.535	0.527	1.5	100	0.00	5.25
26		Acrylonitrile	0.108	0.108	0.0	99	0.00	5.28
27		ETBE	0.961	0.974	-1.4	100	0.00	5.47
28		Vinyl acetate	0.651	0.619	4.9	89	0.00	5.47
29		cis-1,2-Dichloroethene	0.268	0.272	-1.5	104	0.00	5.81
30		2,2-Dichloropropane	0.262	0.240	8.4	91	0.00	5.93

Continuing Calibration Summary

Job Number: FA39742 **Sample:** VI1229-ECC1214
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** I44678.D
Project: BMSMC, Building 5 Area, Humacao, PR

31		Bromochloromethane	0.125	0.125	0.0	101	0.00	6.03
32		Cyclohexane	0.588	0.588	0.0	98	0.00	6.06
33	C	Chloroform	0.508	0.484	4.7	101	0.00	6.09
		----------	Amount	Calc.	%Drift		----------	
34		Ethyl acetate	200.000	198.641	0.7	101	0.00	6.17
35		Tetrahydrofuran	40.000	40.006	-0.0	101	0.00	6.27
		----------	AvgRF	CCRF	%Dev		----------	
36	S	Dibromofluoromethane	0.252	0.254	-0.8	102	0.00	6.28
37		Carbon Tetrachloride	0.299	0.301	-0.7	96	0.00	6.27
38		1,1,1-Trichloroethane	0.400	0.397	0.8	100	0.00	6.33
39		2-Butanone	0.110	0.116	-5.5	104	0.00	6.38
40		1,1-Dichloropropene	0.358	0.363	-1.4	101	0.00	6.45
41		tert-Butyl formate	0.195	0.198	-1.5	96	0.00	6.53
42		Propionitrile	0.040	0.045	-12.5	111	0.00	6.69
43		Methacrylonitrile	0.165	0.175	-6.1	106	0.00	6.71
44		Benzene	0.952	0.934	1.9	100	0.00	6.70
45		TAME	0.667	0.673	-0.9	100	0.00	6.79
46	S	1,2-Dichloroethane-d4	0.356	0.339	4.8	100	0.00	6.83
47		1,2-Dichloroethane	0.427	0.387	9.4	98	0.00	6.90
48		Trichloroethene	0.279	0.267	4.3	100	0.00	7.29
49		Methylcyclohexane	0.465	0.461	0.9	96	0.00	7.31
50		Dibromomethane	0.156	0.155	0.6	100	0.00	7.72
51	C	1,2-Dichloropropane	0.298	0.299	-0.3	101	0.00	7.81
52		Bromodichloromethane	0.311	0.327	-5.1	102	0.00	7.86
		----------	Amount	Calc.	%Drift		----------	
53		Methyl methacrylate	40.000	41.534	-3.8	110	0.00	7.98
54		2-Chloroethyl vinyl ether	200.000	195.037	2.5	101	0.00	8.39
55		cis-1,3-Dichloropropene	40.000	37.537	6.2	101	0.00	8.48
		----------	AvgRF	CCRF	%Dev		----------	
56	I	Chlorobenzene-d5	1.000	1.000	0.0	100	0.00	10.23
57	S	Toluene-d8	1.367	1.404	-2.7	105	0.00	8.68
58	C	Toluene	1.411	1.389	1.6	99	0.00	8.73
		----------	Amount	Calc.	%Drift		----------	
59		2-Nitropropane	200.000	186.811	6.6	97	0.00	8.93
		----------	AvgRF	CCRF	%Dev		----------	
60		4-Methyl-2-pentanone	0.393	0.420	-6.9	102	0.00	9.06
		----------	Amount	Calc.	%Drift		----------	
61		trans-1,3-Dichloropropene	40.000	38.088	4.8	99	0.00	9.12
62		Tetrachloroethene	40.000	51.328	-28.3	131	0.00	9.13
63		Ethyl methacrylate	40.000	42.622	-6.6	111	0.00	9.24
		----------	AvgRF	CCRF	%Dev		----------	
64		1,1,2-Trichloroethane	0.279	0.277	0.7	100	0.00	9.28
		----------	Amount	Calc.	%Drift		----------	
65		Dibromochloromethane	40.000	37.232	6.9	99	0.00	9.48
		----------	AvgRF	CCRF	%Dev		----------	
66		1,3-Dichloropropane	0.578	0.586	-1.4	100	0.00	9.56
67		1,2-Dibromoethane	0.292	0.305	-4.5	100	0.00	9.73
		----------	Amount	Calc.	%Drift		----------	

Continuing Calibration Summary

Job Number: FA39742 **Sample:** VI1229-ECC1214
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** I44678.D
Project: BMSMC, Building 5 Area, Humacao, PR

68		2-hexanone	200.000	208.254	-4.1	100	0.00	9.88
		----------	AvgRF	CCRF	%Dev	----------		
69		1-Chlorohexane	0.510	0.535	-4.9	97	0.00	10.19
70	C	Ethylbenzene	1.589	1.610	-1.3	101	0.00	10.25
71	P	Chlorobenzene	0.996	0.971	2.5	98	0.00	10.24
72		1,1,1,2-Tetrachloroethane	0.297	0.311	-4.7	101	0.00	10.29
73		m,p-Xylene	1.220	1.262	-3.4	100	0.00	10.39
74		o-Xylene	1.262	1.340	-6.2	101	0.00	10.83
		----------	Amount	Calc.	%Drift	----------		
75		Styrene	40.000	37.492	6.3	97	0.00	10.88
76	P	Bromoform	40.000	36.615	8.5	102	0.00	10.93
		----------	AvgRF	CCRF	%Dev	----------		
77		Isopropylbenzene	1.487	1.584	-6.5	101	0.00	11.13
78	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	101	0.00	12.59
79	S	4-Bromofluorobenzene	0.728	0.743	-2.1	104	0.00	11.44
		----------	Amount	Calc.	%Drift	----------		
80		cis-1,4-Dichloro-2-butene	40.000	51.035	-27.6	154	0.00	11.48
		----------	AvgRF	CCRF	%Dev	----------		
81		n-Propylbenzene	4.032	4.113	-2.0	99	0.00	11.55
82		Bromobenzene	0.721	0.716	0.7	99	0.00	11.56
83	P	1,1,2,2-Tetrachloroethane	0.888	0.866	2.5	96	0.00	11.62
84		1,3,5-Trimethylbenzene	2.478	2.620	-5.7	99	0.00	11.74
85		2-Chlorotoluene	2.697	2.733	-1.3	99	0.00	11.74
		----------	Amount	Calc.	%Drift	----------		
86		trans-1,4-Dichloro-2-Bute	40.000	44.611	-11.5	122	0.00	11.80
		----------	AvgRF	CCRF	%Dev	----------		
87		1,2,3-Trichloropropane	0.230	0.228	0.9	98	0.00	11.77
		----------	Amount	Calc.	%Drift	----------		
88		Cyclohexanone	200.000	157.306	21.3	78	0.00	11.83
		----------	AvgRF	CCRF	%Dev	----------		
89		4-Chlorotoluene	2.453	2.488	-1.4	99	0.00	11.90
90		tert-Butylbenzene	1.647	1.673	-1.6	98	0.00	12.08
		----------	Amount	Calc.	%Drift	----------		
91		a-Methyl styrene	40.000	42.098	-5.2	109	0.00	12.01
		----------	AvgRF	CCRF	%Dev	----------		
92		1,2,4-Trimethylbenzene	2.448	2.550	-4.2	99	0.00	12.15
93		Pentachloroethane	0.330	0.197	40.3	57	0.00	12.12
94		sec-Butylbenzene	3.452	3.545	-2.7	98	0.00	12.26
		----------	Amount	Calc.	%Drift	----------		
95		4-Isopropyltoluene	40.000	38.123	4.7	98	0.00	12.40
		----------	AvgRF	CCRF	%Dev	----------		
96		1,3-Dichlorobenzene	1.453	1.443	0.7	98	0.00	12.52
97		1,4-Dichlorobenzene	1.513	1.529	-1.1	101	0.00	12.61
		----------	Amount	Calc.	%Drift	----------		
98		n-Butylbenzene	40.000	37.773	5.6	96	0.00	12.84

Continuing Calibration Summary

Job Number: FA39742 **Sample:** VI1229-ECC1214
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** I44678.D
Project: BMSMC, Building 5 Area, Humacao, PR

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 99      Benzyl Chloride            40.000  34.904     12.7   87   0.00   12.85

            ----------------------- AvgRF   CCRF      %Dev   --------------
100      1,2-Dichlorobenzene         1.402   1.406     -0.3   97   0.00   13.05

            ----------------------- Amount  Calc.    %Drift   -------------
101      1,2-Dibromo-3-Chloropropa  40.000  34.959     12.6   97   0.00   13.83

            ----------------------- AvgRF   CCRF      %Dev   --------------
102      Hexachlorobutadiene         0.369   0.368      0.3   98   0.00   14.41

            ----------------------- Amount  Calc.    %Drift   -------------
103      1,2,4-Trichlorobenzene     40.000  36.575      8.6  101   0.00   14.45
104      Naphthalene                40.000  36.974      7.6   99   0.00   14.73

            ----------------------- AvgRF   CCRF      %Dev   --------------
105      1,2,3-Trichlorobenzene      0.733   0.777     -6.0   98   0.00   14.89

106 I    Tert Butyl Alcohol-d10      1.000   1.000      0.0  109   0.00    4.70

            ----------------------- Amount  Calc.    %Drift   -------------
107      Ethanol                   800.000 836.383     -4.5  108   0.00    3.73

            ----------------------- AvgRF   CCRF      %Dev   --------------
108      Acrolein                    2.366   2.474     -4.6  103   0.00    4.17
109      Tert Butyl Alcohol          1.250   1.315     -5.2  119   0.00    4.77

            ----------------------- Amount  Calc.    %Drift   -------------
110      Isobutyl alcohol          800.000 907.631    -13.5  113   0.00    6.84

            ----------------------- AvgRF   CCRF      %Dev   --------------
111      Tert Amyl Alcohol           0.978   0.976      0.2   99   0.00    6.95
112      1,4-Dioxane                 0.109   0.103      5.5  100   0.00    8.05

            ----------------------- Amount  Calc.    %Drift   -------------
113      3,3-Dimethyl-1-butanol    2000.000 1873.326      6.3  106   0.00    9.84
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    (#) = Out of Range              SPCC's out = 0  CCC's out = 0
     I44368.D   I-DEC22.M        Sat Dec 31 11:33:48 2016
```

Initial Calibration Summary

Job Number: FA39742 **Sample:** VJ5529-ICC5529
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** J0981880.D
Project: BMSMC, Building 5 Area, Humacao, PR

Response Factor Report MSVOA6

```
Method        : C:\msdchem\1\methods\MSJ123016.M (RTE Integrator)
Title         : SW-846 Method 5030B/8260B & EPA 624
Last Update   : Tue Jan 03 08:23:52 2017
Response via  : Initial Calibration

Calibration Files
1   =J0981876.D  2   =J0981877.D  3   =J0981878.D  4   =J0981879.D
5   =J0981880.D  6   =J0981881.D  7   =J0981882.D

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

1) I   Fluorobenzene          ----------------ISTD---------------------
2)  Dichlorodifluorom 0.477 0.598 0.578 0.489 0.546 0.574 0.545 0.544   8.36
3)P Chloromethane     0.763 0.869 0.860 0.734 0.774 0.789 0.727 0.788   7.20
4)C Vinyl Chloride    0.455 0.522 0.484 0.460 0.459 0.489 0.479 0.478   4.86
5)  1,3-Butadiene     0.451 0.296 0.306 0.264 0.311 0.313 0.304 0.321  18.63
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9982
              Response Ratio = 0.00000 + 0.30191 *A + 0.00237 *A^2

6)  Bromomethane      0.457 0.318 0.295 0.251 0.252 0.244 0.228 0.292  27.13
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9995
              Response Ratio = 0.00000 + 0.27162 *A + -0.02168 *A^2

7)  Chloroethane      0.339 0.244 0.236 0.192 0.175 0.162 0.152 0.214  30.44
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9990
              Response Ratio = 0.00000 + 0.19778 *A + -0.02335 *A^2

8)  Trichlorofluorome 0.533 0.644 0.651 0.558 0.575 0.571 0.540 0.582   8.18
9)  Ethyl Ether       0.416 0.449 0.460 0.410 0.432 0.410 0.392 0.424   5.69
10) 1,2-Dichlorotrifl 0.514 0.566 0.533 0.490 0.532 0.524 0.514 0.525   4.44
11)C 1,1-Dichloroethen 0.639 0.805 0.752 0.697 0.754 0.743 0.718 0.730   7.18
12) Freon 113         0.334 0.476 0.457 0.405 0.461 0.442 0.441 0.431  11.13
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9991
              Response Ratio = 0.00000 + 0.44467 *A + -0.00181 *A^2

13) Carbon Disulfide  1.367 1.623 1.612 1.465 1.579 1.534 1.482 1.523   6.03
14) Iodomethane       0.738 0.841 0.782 0.748 0.778 0.784 0.754 0.775   4.43
15) Allyl chloride    1.023 0.879 0.851 0.793 0.896 0.848 0.833 0.875   8.37
16) Methylene Chlorid 1.187 0.885 0.788 0.738 0.778 0.754 0.720 0.836  19.59
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9995
              Response Ratio = 0.00000 + 0.80217 *A + -0.03983 *A^2

17) Acetone           0.041 0.039 0.041 0.039 0.042 0.041 0.039 0.040   3.51
18) Methyl acetate    0.051 0.066 0.066 0.063 0.067 0.066 0.064 0.063   8.56
19) trans-1,2-Dichlor 0.657 0.783 0.731 0.680 0.714 0.708 0.687 0.709   5.76
20) Hexane            0.434 0.585 0.495 0.431 0.464 0.459 0.460 0.475  11.12
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9994
              Response Ratio = 0.00000 + 0.45601 *A + 0.00202 *A^2

21) Methyl Tert Butyl 1.310 1.504 1.422 1.383 1.454 1.413 1.363 1.407   4.47
22) Acetonitrile      0.043 0.031 0.032 0.031 0.036 0.031 0.031 0.033  13.78
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9967
              Response Ratio = 0.00000 + 0.03507 *A + -0.00023 *A^2

23) Di-isopropyl ethe 1.704 2.070 1.936 1.846 1.979 1.886 1.812 1.890   6.29
24) Chloroprene       0.731 0.704 0.778 0.726 0.847 0.820 0.802 0.773   6.91
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9987
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                Response Ratio = 0.00000 + 0.81752 *A + -0.00565 *A^2

25)P 1,1-Dichloroethan 0.792 0.914 0.866 0.817 0.860 0.849 0.837 0.848   4.57
26)  Acrylonitrile     0.146 0.202 0.180 0.180 0.181 0.178 0.173 0.177   9.21
27)  ETBE              1.588 1.903 1.838 1.695 1.779 1.745 1.660 1.744   6.15
28)  Vinyl acetate     0.951 1.216 1.179 1.145 1.093 0.983 0.864 1.062  12.34
             ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9999
                Response Ratio = 0.00000 + 1.23073 *A + -0.03623 *A^2

29)  cis-1,2-Dichloroe 0.540 0.573 0.542 0.477 0.512 0.514 0.507 0.524   5.89
30)  2,2-Dichloropropa 0.687 0.805 0.744 0.699 0.748 0.719 0.698 0.728   5.65
31)  Bromochloromethan 0.272 0.240 0.246 0.216 0.239 0.237 0.229 0.240   7.17
32)  Cyclohexane       0.818 1.055 1.012 0.871 0.993 0.969 0.942 0.951   8.65
33)C Chloroform        0.905 0.947 0.909 0.805 0.857 0.807 0.790 0.860   7.16
34)  Ethyl acetate     0.392 0.484 0.446 0.449 0.452 0.431 0.410 0.438   6.89
35)  Tetrahydrofuran   0.288 0.187 0.151 0.134 0.143 0.146 0.141 0.170  32.28
             ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9990
                Response Ratio = 0.00000 + 0.14523 *A + -0.00165 *A^2

36)S Dibromofluorometh 0.246 0.240 0.238 0.240 0.230 0.232 0.227 0.236   2.89
37)  Carbon Tetrachlor 0.507 0.620 0.629 0.562 0.628 0.615 0.603 0.595   7.58
38)  1,1,1-Trichloroet 0.682 0.826 0.775 0.719 0.775 0.755 0.736 0.753   6.14
39)  2-Butanone        0.256 0.205 0.202 0.200 0.210 0.202 0.195 0.210   9.90
40)  1,1-Dichloroprope 0.557 0.642 0.621 0.583 0.636 0.611 0.607 0.608   4.89
41)  tert-Butyl Format 0.504 0.578 0.511 0.507 0.503 0.469 0.426 0.500   9.25
42)  Propionitrile     0.068 0.069 0.067 0.061 0.066 0.064 0.062 0.065   4.90
43)  Methacrylonitrile 0.332 0.317 0.306 0.269 0.282 0.250 0.225 0.283  13.51
             ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9993
                Response Ratio = 0.00000 + 0.30690 *A + -0.00408 *A^2

44)  Benzene           1.475 1.781 1.677 1.572 1.647 1.552 1.467 1.596   7.10
             ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9997
                Response Ratio = 0.00000 + 1.71684 *A + -0.12313 *A^2

45)  TAME              1.193 1.533 1.491 1.423 1.511 1.438 1.372 1.423   8.13
46)S 1,2-Dichloroethan 0.327 0.319 0.314 0.323 0.321 0.315 0.303 0.317   2.46
47)  1,2-Dichloroethan 0.619 0.717 0.671 0.646 0.682 0.650 0.633 0.660   5.02
48)  Trichloroethene   0.452 0.491 0.487 0.432 0.488 0.457 0.460 0.467   4.74
49)  Methylcyclohexane 0.671 0.915 0.898 0.781 0.878 0.865 0.840 0.835  10.12
50)  Dibromomethane    0.266 0.287 0.300 0.274 0.288 0.281 0.283 0.283   3.79
51)C 1,2-Dichloropropa 0.436 0.531 0.505 0.483 0.518 0.503 0.497 0.496   6.19
52)  Bromodichlorometh 0.616 0.658 0.625 0.600 0.622 0.610 0.600 0.619   3.21
53)  Methyl methacryla 0.665 0.422 0.440 0.435 0.474 0.447 0.434 0.474  18.10
             ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9993
                Response Ratio = 0.00000 + 0.47293 *A + -0.01919 *A^2

54)  2-Chloroethyl vin 0.265 0.321 0.301 0.301 0.304 0.294 0.276 0.294   6.31
55)  cis-1,3-Dichlorop 0.642 0.831 0.783 0.745 0.788 0.773 0.750 0.759   7.72

56) I   Chlorobenzene-d5      ----------------ISTD---------------------
57)S Toluene-d8        1.309 1.292 1.354 1.310 1.315 1.365 1.350 1.328   2.11
58)C Toluene           2.315 2.599 2.629 2.364 2.561 2.490 2.386 2.478   5.01
59)  2-Nitropropane    0.187 0.159 0.165 0.152 0.164 0.160 0.156 0.163   6.99
60)  4-Methyl-2-pentan 0.646 0.718 0.678 0.642 0.688 0.635 0.588 0.657   6.46
             ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9993
                Response Ratio = 0.00000 + 0.72349 *A + -0.01336 *A^2

61)  trans-1,3-Dichlor 0.765 0.901 0.945 0.905 0.967 0.962 0.922 0.910   7.57
62)  Tetrachloroethene 0.512 0.709 0.724 0.637 0.783 0.770 0.739 0.696  13.54
             ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9975
```

```
                Response Ratio = 0.00000 + 0.75724 *A + -0.00569 *A^2

 63)  Ethyl methacrylat 0.876 0.839 0.858 0.794 0.897 0.894 0.867 0.861   4.14
 64)  1,1,2-Trichloroet 0.358 0.504 0.463 0.453 0.480 0.485 0.466 0.458  10.29
 65)  Dibromochlorometh 0.526 0.619 0.622 0.586 0.648 0.657 0.647 0.615   7.46
 66)  1,3-Dichloropropa 0.991 1.021 1.020 0.980 1.054 1.024 1.015 1.015   2.36
 67)  1,2-Dibromoethane 0.494 0.582 0.602 0.558 0.603 0.586 0.579 0.572   6.53
 68)  2-hexanone        0.415 0.472 0.469 0.443 0.473 0.452 0.424 0.450   5.26
 69)  1-Chlorohexane    0.767 0.870 0.973 0.898 1.007 0.969 0.958 0.920   8.92
 70)C Ethylbenzene      2.652 3.025 2.910 2.711 2.903 2.719 2.531 2.779   6.22
 71)P Chlorobenzene     1.467 1.881 1.818 1.648 1.778 1.693 1.646 1.705   8.04
 72)  1,1,1,2-Tetrachlo 0.576 0.643 0.618 0.602 0.664 0.663 0.632 0.628   5.16
             ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9989
                Response Ratio = 0.00000 + 0.66858 *A + -0.01570 *A^2

 73)  m,p-Xylene        1.995 2.470 2.445 2.187 2.322 2.115 1.899 2.205   9.94
             ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9992
                Response Ratio = 0.00000 + 2.51471 *A + -0.15177 *A^2

 74)  o-Xylene          2.424 2.589 2.725 2.454 2.662 2.564 2.418 2.548   4.74
 75)  Styrene           1.402 1.792 1.799 1.767 1.909 1.872 1.777 1.760   9.44
             ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9993
                Response Ratio = 0.00000 + 1.94335 *A + -0.07722 *A^2

 76)P Bromoform         0.386 0.407 0.410 0.417 0.465 0.471 0.462 0.431   7.88
 77)  Isopropylbenzene  2.668 3.226 3.199 2.830 3.104 2.986 2.763 2.968   7.41

 78) I   1,4-Dichlorobenzene-d ----------------ISTD--------------------
 79)S 4-Bromofluorobenz 1.028 1.003 0.960 1.004 0.992 0.969 1.025 0.997   2.59
 80)  cis-1,4-Dichloro-       0.408 0.393 0.393 0.411 0.392 0.406 0.401   2.14
 81)  n-Propylbenzene   6.538 7.518 6.944 6.502 6.772 6.250 5.933 6.637   7.69
 82)  Bromobenzene      1.360 1.485 1.311 1.332 1.432 1.400 1.364 1.384   4.35
 83)P 1,1,2,2-Tetrachlo 1.689 1.531 1.399 1.380 1.427 1.379 1.351 1.451   8.28
 84)  1,3,5-Trimethylbe 4.212 4.759 4.675 4.274 4.576 4.232 4.071 4.400   6.03
 85)  2-Chlorotoluene   4.692 5.035 4.577 4.432 4.615 4.197 4.062 4.516   7.17
 86)  trans-1,4-Dichlor 0.483 0.454 0.423 0.420 0.447 0.438 0.424 0.441   5.08
 87)  1,2,3-Trichloropr 0.340 0.398 0.363 0.363 0.397 0.370 0.390 0.375   5.73
 88)  Cyclohexanone     0.092 0.068 0.063 0.055 0.058 0.056 0.055 0.064  20.73
             ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9996
                Response Ratio = 0.00000 + 0.05843 *A + -0.00030 *A^2

 89)  4-Chlorotoluene   3.905 4.681 4.486 4.221 4.542 4.225 4.106 4.309   6.31
 90)  a-Methyl Styrene  2.862 2.658 2.664 2.585 2.948 2.775 2.734 2.747   4.59
 91)  tert-Butylbenzene 3.159 2.976 2.895 2.645 2.925 2.772 2.706 2.868   6.13
 92)  1,2,4-Trimethylbe 4.022 4.869 4.578 4.338 4.506 4.196 4.003 4.359   7.24
 93)  Pentachloroethane 0.938 0.838 0.846 0.818 0.853 0.838 0.847 0.854   4.51
 94)  sec-Butylbenzene  5.750 6.509 6.132 5.828 6.259 5.805 5.498 5.969   5.80
 95)  4-Isopropyltoluen 4.268 5.086 4.826 4.629 4.998 4.658 4.464 4.704   6.16
 96)  1,3-Dichlorobenze 2.623 3.013 2.765 2.769 2.964 2.835 2.756 2.818   4.73
 97)  1,4-Dichlorobenze 3.021 3.133 2.949 2.788 2.954 2.864 2.765 2.925   4.46
 98)  n-Butylbenzene    2.606 3.080 2.890 2.803 3.019 2.886 2.807 2.870   5.42
 99)  Benzyl Chloride   0.524 0.574 0.590 0.605 0.655 0.611 0.599 0.594   6.70
100)  1,2-Dichlorobenze 3.086 2.903 2.798 2.724 2.884 2.768 2.702 2.838   4.67
101)  1,2-Dibromo-3-Chl 0.298 0.318 0.255 0.278 0.288 0.282 0.291 0.287   6.65
102)  Hexachlorobutadie 1.108 1.286 1.201 1.141 1.222 1.189 1.229 1.197   4.91
103)  1,2,4-Trichlorobe 1.970 2.134 2.003 1.943 2.055 2.006 1.978 2.013   3.17
104)  Naphthalene       3.548 4.058 3.819 3.882 4.154 3.955 3.848 3.895   4.98
             ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9996
                Response Ratio = 0.00000 + 4.15862 *A + -0.15178 *A^2
```

Initial Calibration Summary

Job Number: FA39742 **Sample:** VJ5529-ICC5529
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** J0981880.D
Project: BMSMC, Building 5 Area, Humacao, PR

```
105)  1,2,3-Trichlorobe 1.844 1.907 1.852 1.823 1.931 1.865 1.854 1.868   2.03
             ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9998
               Response Ratio = 0.00000 + 1.90643 *A + -0.02622 *A^2


106) I   Tert Butyl Alcohol-d1 ----------------ISTD---------------------
107)  Ethanol                 0.253 0.248 0.196 0.190 0.182 0.192 0.210  14.98
             ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9978
               Response Ratio = 0.00000 + 0.18938 *A + 0.00003 *A^2

108)  acrolein          2.973 3.718 3.799 3.374 3.512 3.517 3.434 3.475   7.72
109)  Tert Butyl Alcoho 2.519 2.189 2.192 1.892 2.039 2.057 1.941 2.118   9.89
             ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9988
               Response Ratio = 0.00000 + 2.10866 *A + -0.03811 *A^2

110)  tert Amyl alcohol 1.777 1.662 1.612 1.544 1.678 1.637 1.603 1.645   4.43
111)  Isobutyl alcohol  0.800 0.671 0.660 0.596 0.672 0.646 0.605 0.664  10.09
112)  1,4-Dioxane       0.189 0.169 0.177 0.152 0.173 0.184 0.179 0.175   6.93
113)  3,3-Dimethyl-1-bu 1.777 1.758 1.722 1.640 1.720 1.726 1.607 1.707   3.60
 ---------------------------------------------------------------------------
 (#) = Out of Range

          MSJ123016.M        Wed Jan 04 10:50:15 2017
```

Initial Calibration Verification

Job Number: FA39742 **Sample:** VJ5529-ICV5529
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** J0981884.D
Project: BMSMC, Building 5 Area, Humacao, PR

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\data\123016\J0981884.D          Vial: 9
Acq On    : 30 Dec 2016   3:58 pm                    Operator: melissam
Sample    : ICV5529-5                                Inst    : MSVOA6
Misc      : MS35465,VJ5529,,,,,                      Multiplr: 1.00
MS Integration Params: RTEINT.P

Method       : C:\msdchem\1\methods\MSJ123016.M (RTE Integrator)
Title        : SW-846 Method 5030B/8260B & EPA 624
Last Update  : Tue Jan 03 09:58:33 2017
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	7.73
2		Dichlorodifluoromethane	0.544	0.558	-2.6	102	-0.01	2.65
3	P	Chloromethane	0.788	0.704	10.7	91	0.00	2.86
4	C	Vinyl Chloride	0.478	0.421	11.9	92	-0.01	3.01
		----------	Amount	Calc.	%Drift		----------	
5		1,3-Butadiene	40.000	0.257	99.4#	1	-0.03	2.98
6		Bromomethane	40.000	36.017	10.0	92	-0.01	3.43
7		Chloroethane	40.000	37.884	5.3	98	0.00	3.58
		----------	AvgRF	CCRF	%Dev		----------	
8		Trichlorofluoromethane	0.582	0.626	-7.6	109	0.00	3.80
9		Ethyl Ether	0.424	0.386	9.0	90	0.00	4.10
10		1,2-Dichlorotrifluoroetha	0.525	0.510	2.9	96	-0.01	4.31
11	C	1,1-Dichloroethene	0.730	0.758	-3.8	101	0.00	4.37
		----------	Amount	Calc.	%Drift		----------	
12		Freon 113	40.000	40.099	-0.2	96	0.00	4.43
		----------	AvgRF	CCRF	%Dev		----------	
13		Carbon Disulfide	1.523	1.497	1.7	95	0.00	4.44
14		Iodomethane	0.775	0.841	-8.5	108	-0.01	4.56
15		Allyl chloride	0.875	0.804	8.1	90	0.00	4.90
		----------	Amount	Calc.	%Drift		----------	
16		Methylene Chloride	40.000	39.133	2.2	97	0.00	5.02
		----------	AvgRF	CCRF	%Dev		----------	
17		Acetone	0.040	0.040	0.0	95	0.00	5.05
18		Methyl acetate	0.063	0.069	-9.5	103	0.00	5.17
19		trans-1,2-Dichloroethene	0.709	0.737	-3.9	103	0.00	5.20
		----------	Amount	Calc.	%Drift		----------	
20		Hexane	40.000	39.215	2.0	97	0.00	5.27
		----------	AvgRF	CCRF	%Dev		----------	
21		Methyl Tert Butyl Ether	1.407	1.475	-4.8	102	0.00	5.31
		----------	Amount	Calc.	%Drift		----------	
22		Acetonitrile	400.000	383.727	4.1	88	0.00	5.57
		----------	AvgRF	CCRF	%Dev		----------	

Initial Calibration Verification

Job Number: FA39742 **Sample:** VJ5529-ICV5529
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** J0981884.D
Project: BMSMC, Building 5 Area, Humacao, PR

23		Di-isopropyl ether	1.890	2.006	-6.1	101	0.00	5.69
		----------	Amount	Calc.	%Drift		----------	
24		Chloroprene	40.000	38.134	4.7	92	0.00	5.84
		----------	AvgRF	CCRF	%Dev		----------	
25	P	1,1-Dichloroethane	0.848	0.976	-15.1	114	0.00	5.87
26		Acrylonitrile	0.177	0.186	-5.1	103	0.00	5.90
27		ETBE	1.744	1.655	5.1	93	0.00	6.09
		----------	Amount	Calc.	%Drift		----------	
28		Vinyl acetate	200.000	198.797	0.6	99	0.00	6.08
		----------	AvgRF	CCRF	%Dev		----------	
29		cis-1,2-Dichloroethene	0.524	0.567	-8.2	111	0.00	6.45
30		2,2-Dichloropropane	0.728	0.825	-13.3	110	0.00	6.58
31		Bromochloromethane	0.240	0.260	-8.3	109	0.00	6.66
32		Cyclohexane	0.951	0.911	4.2	92	0.00	6.71
33	C	Chloroform	0.860	0.886	-3.0	103	0.00	6.71
34		Ethyl acetate	0.438	0.430	1.8	95	0.00	6.78
		----------	Amount	Calc.	%Drift		----------	
35		Tetrahydrofuran	40.000	40.952	-2.4	103	0.00	6.89
		----------	AvgRF	CCRF	%Dev		----------	
36	S	Dibromofluoromethane	0.236	0.246	-4.2	107	0.00	6.90
37		Carbon Tetrachloride	0.595	0.706	-18.7	112	0.00	6.91
38		1,1,1-Trichloroethane	0.753	0.771	-2.4	100	0.00	6.96
39		2-Butanone	0.210	0.223	-6.2	106	0.00	7.00
40		1,1-Dichloropropene	0.608	0.652	-7.2	103	0.00	7.08
41		tert-Butyl Formate	0.500	0.188	62.4#	37#	0.00	7.16
42		Propionitrile	0.065	0.062	4.6	94	0.00	7.30
		----------	Amount	Calc.	%Drift		----------	
43		Methacrylonitrile	400.000	394.249	1.4	96	0.00	7.33
44		Benzene	40.000	47.958	-19.9	117	0.00	7.33
		----------	AvgRF	CCRF	%Dev		----------	
45		TAME	1.423	1.518	-6.7	101	0.00	7.41
46	S	1,2-Dichloroethane-d4	0.317	0.298	6.0	93	0.00	7.45
47		1,2-Dichloroethane	0.660	0.715	-8.3	105	0.00	7.52
48		Trichloroethene	0.467	0.520	-11.3	107	0.00	7.91
49		Methylcyclohexane	0.835	0.895	-7.2	102	0.00	7.93
50		Dibromomethane	0.283	0.326	-15.2	113	0.00	8.33
51	C	1,2-Dichloropropane	0.496	0.508	-2.4	98	0.00	8.42
52		Bromodichloromethane	0.619	0.683	-10.3	110	0.00	8.47
		----------	Amount	Calc.	%Drift		----------	
53		Methyl methacrylate	40.000	39.072	2.3	95	0.00	8.57
		----------	AvgRF	CCRF	%Dev		----------	
54		2-Chloroethyl vinyl ether	0.294	0.297	-1.0	98	0.00	8.99
55		cis-1,3-Dichloropropene	0.759	0.866	-14.1	110	0.00	9.09
56	I	Chlorobenzene-d5	1.000	1.000	0.0	103	0.00	10.82
57	S	Toluene-d8	1.328	1.279	3.7	101	0.00	9.28
58	C	Toluene	2.478	2.858	-15.3	115	0.00	9.33
59		2-Nitropropane	0.163	0.167	-2.5	105	0.00	9.53
		----------	Amount	Calc.	%Drift		----------	

Initial Calibration Verification

Job Number: FA39742 **Sample:** VJ5529-ICV5529
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** J0981884.D
Project: BMSMC, Building 5 Area, Humacao, PR

60		4-Methyl-2-pentanone	200.000	189.487	5.3	96	0.00	9.65
		----------	AvgRF	CCRF	%Dev	----------		
61		trans-1,3-Dichloropropene	0.910	1.073	-17.9	115	0.00	9.71
		----------	Amount	Calc.	%Drift	----------		
62		Tetrachloroethene	40.000	42.702	-6.8	106	0.00	9.73
		----------	AvgRF	CCRF	%Dev	----------		
63		Ethyl methacrylate	0.861	0.797	7.4	92	0.00	9.81
64		1,1,2-Trichloroethane	0.458	0.513	-12.0	110	0.00	9.88
65		Dibromochloromethane	0.615	0.715	-16.3	114	0.00	10.08
66		1,3-Dichloropropane	1.015	1.070	-5.4	105	0.00	10.16
67		1,2-Dibromoethane	0.572	0.663	-15.9	114	0.00	10.34
68		2-hexanone	0.450	0.436	3.1	95	0.00	10.47
69		1-Chlorohexane	0.920	0.988	-7.4	102	0.00	10.77
70	C	Ethylbenzene	2.779	3.207	-15.4	114	0.00	10.84
71	P	Chlorobenzene	1.705	1.919	-12.6	112	0.00	10.84
		----------	Amount	Calc.	%Drift	----------		
72		1,1,1,2-Tetrachloroethane	40.000	46.446	-16.1	118	0.00	10.89
73		m,p-Xylene	80.000	87.541	-9.4	110	0.00	10.98
		----------	AvgRF	CCRF	%Dev	----------		
74		o-Xylene	2.548	2.755	-8.1	107	0.00	11.42
		----------	Amount	Calc.	%Drift	----------		
75		Styrene	40.000	46.390	-16.0	118	0.00	11.46
		----------	AvgRF	CCRF	%Dev	----------		
76	P	Bromoform	0.431	0.508	-17.9	113	0.00	11.52
77		Isopropylbenzene	2.968	3.288	-10.8	110	0.00	11.72
78	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	105	0.00	13.18
79	S	4-Bromofluorobenzene	0.997	0.938	5.9	99	0.00	12.03
80		cis-1,4-Dichloro-2-butene	0.401	0.431	-7.5	110	0.00	12.06
81		n-Propylbenzene	6.637	6.936	-4.5	108	0.00	12.14
82		Bromobenzene	1.384	1.670	-20.7#	122	0.00	12.16
83	P	1,1,2,2-Tetrachloroethane	1.451	1.431	1.4	105	0.00	12.20
84		1,3,5-Trimethylbenzene	4.400	5.092	-15.7	117	0.00	12.32
85		2-Chlorotoluene	4.516	4.742	-5.0	108	0.00	12.33
86		trans-1,4-Dichloro-2-Bute	0.441	0.440	0.2	103	0.00	12.38
87		1,2,3-Trichloropropane	0.375	0.425	-13.3	112	0.00	12.36
		----------	Amount	Calc.	%Drift	----------		
88		Cyclohexanone	200.000	190.424	4.8	98	0.00	12.43
		----------	AvgRF	CCRF	%Dev	----------		
89		4-Chlorotoluene	4.309	4.562	-5.9	105	0.00	12.49
90		a-Methyl Styrene	2.747	0.009	99.7#	0#	0.09	12.68
91		tert-Butylbenzene	2.868	2.946	-2.7	106	0.00	12.66
92		1,2,4-Trimethylbenzene	4.359	5.072	-16.4	118	0.00	12.73
93		Pentachloroethane	0.854	0.956	-11.9	118	0.00	12.72
94		sec-Butylbenzene	5.969	6.492	-8.8	109	0.00	12.85
95		4-Isopropyltoluene	4.704	5.658	-20.3#	119	0.00	12.98
96		1,3-Dichlorobenzene	2.818	3.230	-14.6	114	0.00	13.12
97		1,4-Dichlorobenzene	2.925	3.200	-9.4	114	0.00	13.20
98		n-Butylbenzene	2.870	3.237	-12.8	113	0.00	13.41
99		Benzyl Chloride	0.594	0.657	-10.6	105	0.00	13.43
100		1,2-Dichlorobenzene	2.838	3.097	-9.1	113	0.00	13.63

Initial Calibration Verification

Job Number: FA39742 **Sample:** VJ5529-ICV5529
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** J0981884.D
Project: BMSMC, Building 5 Area, Humacao, PR

101	1,2-Dibromo-3-Chloropropa	0.287	0.288	-0.3	105	0.00	14.36
102	Hexachlorobutadiene	1.197	1.273	-6.3	109	0.00	14.91
103	1,2,4-Trichlorobenzene	2.013	2.391	-18.8	122	0.00	14.96
		Amount	Calc.	%Drift			
104	Naphthalene	40.000	49.787	-24.5#	126	0.00	15.24
105	1,2,3-Trichlorobenzene	40.000	48.278	-20.7#	123	0.00	15.41
		AvgRF	CCRF	%Dev			
106 I	Tert Butyl Alcohol-d10	1.000	1.000	0.0	93	0.00	5.28
		Amount	Calc.	%Drift			
107	Ethanol	800.000	888.579	-11.1	103	0.00	4.28
		AvgRF	CCRF	%Dev			
108	acrolein	3.475	4.414	-27.0#	117	0.00	4.73
		Amount	Calc.	%Drift			
109	Tert Butyl Alcohol	400.000	546.850	-36.7#	126	0.00	5.35
		AvgRF	CCRF	%Dev			
110	tert Amyl alcohol	1.645	1.672	-1.6	93	0.00	7.55
111	Isobutyl alcohol	0.664	0.674	-1.5	93	0.00	7.43
112	1,4-Dioxane	0.175	0.201	-14.9	108	-0.01	8.64
113	3,3-Dimethyl-1-butanol	1.707	1.922	-12.6	104	0.00	10.41

(#) = Out of Range SPCC's out = 0 CCC's out = 0
J0981880.D MSJ123016.M Tue Jan 03 10:02:38 2017

6.7.10

6

Continuing Calibration Summary

Job Number: FA39742 **Sample:** VJ5530-CC5529
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** J0981914.D
Project: BMSMC, Building 5 Area, Humacao, PR

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\data\010317\J0981914.D          Vial: 1
Acq On    :  3 Jan 2017   9:16 am                     Operator: darshnap
Sample    : cc5529-5                                  Inst    : MSVOA6
Misc      : MS35465,VJ5530,,,,,                       Multiplr: 1.00
MS Integration Params: RTEINT.P

Method       : C:\msdchem\1\methods\MSJ123016.M (RTE Integrator)
Title        : SW-846 Method 5030B/8260B & EPA 624
Last Update  : Tue Jan 03 09:58:33 2017
Response via : Multiple Level Calibration

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

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	Fluorobenzene	1.000	1.000	0.0	113	0.00	7.73
2		Dichlorodifluoromethane	0.544	0.533	2.0	110	0.00	2.65
3	P	Chloromethane	0.788	0.763	3.2	111	0.00	2.87
4	C	Vinyl Chloride	0.478	0.434	9.2	106	0.00	3.02
			Amount	Calc.	%Drift			
5		1,3-Butadiene	40.000	37.698	5.8	104	0.00	3.02
6		Bromomethane	40.000	31.295	21.8#	90	0.00	3.44
7		Chloroethane	40.000	33.290	16.8	98	0.00	3.59
			AvgRF	CCRF	%Dev			
8		Trichlorofluoromethane	0.582	0.556	4.5	109	0.01	3.81
9		Ethyl Ether	0.424	0.440	-3.8	115	0.00	4.10
10		1,2-Dichlorotrifluoroetha	0.525	0.537	-2.3	114	0.00	4.33
11	C	1,1-Dichloroethene	0.730	0.763	-4.5	114	0.00	4.37
			Amount	Calc.	%Drift			
12		Freon 113	40.000	41.302	-3.3	112	0.00	4.44
			AvgRF	CCRF	%Dev			
13		Carbon Disulfide	1.523	1.585	-4.1	113	0.00	4.46
14		Iodomethane	0.775	0.771	0.5	112	0.00	4.57
15		Allyl chloride	0.875	0.942	-7.7	118	0.00	4.90
			Amount	Calc.	%Drift			
16		Methylene Chloride	40.000	41.564	-3.9	116	0.00	5.03
			AvgRF	CCRF	%Dev			
17		Acetone	0.040	0.046	-15.0	123	0.00	5.04
18		Methyl acetate	0.063	0.071	-12.7	119	0.00	5.17
19		trans-1,2-Dichloroethene	0.709	0.719	-1.4	113	0.00	5.21
			Amount	Calc.	%Drift			
20		Hexane	40.000	42.875	-7.2	119	0.00	5.27
			AvgRF	CCRF	%Dev			
21		Methyl Tert Butyl Ether	1.407	1.476	-4.9	114	0.00	5.31
			Amount	Calc.	%Drift			
22		Acetonitrile	400.000	515.766	-28.9#	131	0.00	5.57
			AvgRF	CCRF	%Dev			

Continuing Calibration Summary

Job Number: FA39742 **Sample:** VJ5530-CC5529
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** J0981914.D
Project: BMSMC, Building 5 Area, Humacao, PR

23		Di-isopropyl ether	1.890	2.077	-9.9	118	0.00	5.69
		----------	Amount	Calc.	%Drift		----------	
24		Chloroprene	40.000	41.149	-2.9	111	0.00	5.85
		----------	AvgRF	CCRF	%Dev		----------	
25	P	1,1-Dichloroethane	0.848	0.875	-3.2	115	0.00	5.87
26		Acrylonitrile	0.177	0.199	-12.4	124	0.00	5.90
27		ETBE	1.744	1.869	-7.2	118	0.00	6.09
		----------	Amount	Calc.	%Drift		----------	
28		Vinyl acetate	200.000	223.170	-11.6	123	0.00	6.08
		----------	AvgRF	CCRF	%Dev		----------	
29		cis-1,2-Dichloroethene	0.524	0.516	1.5	114	0.00	6.45
30		2,2-Dichloropropane	0.728	0.779	-7.0	117	0.00	6.58
31		Bromochloromethane	0.240	0.241	-0.4	114	0.00	6.66
32		Cyclohexane	0.951	0.996	-4.7	113	0.00	6.71
33	C	Chloroform	0.860	0.845	1.7	111	0.00	6.71
34		Ethyl acetate	0.438	0.496	-13.2	124	0.00	6.78
		----------	Amount	Calc.	%Drift		----------	
35		Tetrahydrofuran	40.000	44.195	-10.5	125	0.00	6.89
		----------	AvgRF	CCRF	%Dev		----------	
36	S	Dibromofluoromethane	0.236	0.231	2.1	113	0.00	6.91
37		Carbon Tetrachloride	0.595	0.611	-2.7	109	0.00	6.91
38		1,1,1-Trichloroethane	0.753	0.764	-1.5	111	0.00	6.96
39		2-Butanone	0.210	0.231	-10.0	124	0.00	7.00
40		1,1-Dichloropropene	0.608	0.628	-3.3	111	0.00	7.08
41		tert-Butyl Formate	0.500	0.529	-5.8	118	0.00	7.16
42		Propionitrile	0.065	0.073	-12.3	123	0.00	7.30
		----------	Amount	Calc.	%Drift		----------	
43		Methacrylonitrile	400.000	465.990	-16.5	125	0.00	7.33
44		Benzene	40.000	40.597	-1.5	111	0.00	7.33
		----------	AvgRF	CCRF	%Dev		----------	
45		TAME	1.423	1.541	-8.3	115	0.00	7.41
46	S	1,2-Dichloroethane-d4	0.317	0.333	-5.0	117	0.00	7.45
47		1,2-Dichloroethane	0.660	0.709	-7.4	117	0.00	7.52
48		Trichloroethene	0.467	0.474	-1.5	109	0.00	7.91
49		Methylcyclohexane	0.835	0.884	-5.9	113	0.00	7.93
50		Dibromomethane	0.283	0.307	-8.5	120	0.00	8.33
51	C	1,2-Dichloropropane	0.496	0.539	-8.7	117	0.00	8.42
52		Bromodichloromethane	0.619	0.646	-4.4	117	0.00	8.47
		----------	Amount	Calc.	%Drift		----------	
53		Methyl methacrylate	40.000	46.989	-17.5	127	0.00	8.57
		----------	AvgRF	CCRF	%Dev		----------	
54		2-Chloroethyl vinyl ether	0.294	0.327	-11.2	121	0.00	8.99
55		cis-1,3-Dichloropropene	0.759	0.823	-8.4	118	0.00	9.09
56	I	Chlorobenzene-d5	1.000	1.000	0.0	114	0.00	10.82
57	S	Toluene-d8	1.328	1.292	2.7	112	0.00	9.28
58	C	Toluene	2.478	2.520	-1.7	112	0.00	9.33
59		2-Nitropropane	0.163	0.183	-12.3	126	0.00	9.53
		----------	Amount	Calc.	%Drift		----------	

Continuing Calibration Summary

Job Number: FA39742 **Sample:** VJ5530-CC5529
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** J0981914.D
Project: BMSMC, Building 5 Area, Humacao, PR

60		4-Methyl-2-pentanone	200.000	215.396	-7.7	119	0.00	9.65
		----------	AvgRF	CCRF	%Dev	----------		
61		trans-1,3-Dichloropropene	0.910	0.983	-8.0	116	0.00	9.71
		----------	Amount	Calc.	%Drift	----------		
62		Tetrachloroethene	40.000	33.946	15.1	93	0.00	9.73
		----------	AvgRF	CCRF	%Dev	----------		
63		Ethyl methacrylate	0.861	0.994	-15.4	126	0.00	9.82
64		1,1,2-Trichloroethane	0.458	0.503	-9.8	119	0.00	9.88
65		Dibromochloromethane	0.615	0.665	-8.1	117	0.00	10.08
66		1,3-Dichloropropane	1.015	1.065	-4.9	115	0.00	10.16
67		1,2-Dibromoethane	0.572	0.598	-4.5	113	0.00	10.34
68		2-hexanone	0.450	0.515	-14.4	124	0.00	10.47
69		1-Chlorohexane	0.920	0.983	-6.8	111	0.00	10.77
70	C	Ethylbenzene	2.779	2.812	-1.2	110	0.00	10.84
71	P	Chlorobenzene	1.705	1.747	-2.5	112	0.00	10.84
		----------	Amount	Calc.	%Drift	----------		
72		1,1,1,2-Tetrachloroethane	40.000	40.265	-0.7	108	0.00	10.89
73		m,p-Xylene	80.000	79.367	0.8	111	0.00	10.98
		----------	AvgRF	CCRF	%Dev	----------		
74		o-Xylene	2.548	2.642	-3.7	113	0.00	11.42
		----------	Amount	Calc.	%Drift	----------		
75		Styrene	40.000	42.722	-6.8	112	0.00	11.46
		----------	AvgRF	CCRF	%Dev	----------		
76	P	Bromoform	0.431	0.450	-4.4	110	0.00	11.52
77		Isopropylbenzene	2.968	3.067	-3.3	113	0.00	11.72
78	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	112	0.00	13.19
79	S	4-Bromofluorobenzene	0.997	1.002	-0.5	113	0.00	12.03
80		cis-1,4-Dichloro-2-butene	0.401	0.444	-10.7	121	0.00	12.06
81		n-Propylbenzene	6.637	6.769	-2.0	112	0.00	12.14
82		Bromobenzene	1.384	1.393	-0.7	109	0.00	12.16
83	P	1,1,2,2-Tetrachloroethane	1.451	1.525	-5.1	120	0.00	12.20
84		1,3,5-Trimethylbenzene	4.400	4.566	-3.8	112	0.00	12.32
85		2-Chlorotoluene	4.516	4.555	-0.9	111	0.00	12.33
86		trans-1,4-Dichloro-2-Bute	0.441	0.486	-10.2	122	0.00	12.38
87		1,2,3-Trichloropropane	0.375	0.412	-9.9	117	0.00	12.36
		----------	Amount	Calc.	%Drift	----------		
88		Cyclohexanone	200.000	242.551	-21.3#	133	0.00	12.43
		----------	AvgRF	CCRF	%Dev	----------		
89		4-Chlorotoluene	4.309	4.521	-4.9	112	0.00	12.50
90		a-Methyl Styrene	2.747	3.034	-10.4	116	0.00	12.59
91		tert-Butylbenzene	2.868	2.853	0.5	109	0.00	12.66
92		1,2,4-Trimethylbenzene	4.359	4.440	-1.9	111	0.00	12.73
93		Pentachloroethane	0.854	0.989	-15.8	130	0.00	12.72
94		sec-Butylbenzene	5.969	6.190	-3.7	111	0.00	12.85
95		4-Isopropyltoluene	4.704	4.903	-4.2	110	0.00	12.98
96		1,3-Dichlorobenzene	2.818	2.969	-5.4	112	0.00	13.12
97		1,4-Dichlorobenzene	2.925	2.927	-0.1	111	0.00	13.20
98		n-Butylbenzene	2.870	3.047	-6.2	113	0.00	13.42
99		Benzyl Chloride	0.594	0.677	-14.0	116	0.00	13.43
100		1,2-Dichlorobenzene	2.838	2.919	-2.9	114	0.00	13.63

Continuing Calibration Summary

Job Number: FA39742 **Sample:** VJ5530-CC5529
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** J0981914.D
Project: BMSMC, Building 5 Area, Humacao, PR

101	1,2-Dibromo-3-Chloropropa	0.287	0.303	-5.6	118	0.00	14.36
102	Hexachlorobutadiene	1.197	1.111	7.2	102	0.00	14.91
103	1,2,4-Trichlorobenzene	2.013	1.937	3.8	106	0.00	14.95
		Amount	Calc.	%Drift			
104	Naphthalene	40.000	42.809	-7.0	113	0.00	15.24
105	1,2,3-Trichlorobenzene	40.000	38.932	2.7	106	0.00	15.41
		AvgRF	CCRF	%Dev			
106 I	Tert Butyl Alcohol-d10	1.000	1.000	0.0	114	0.00	5.28
		Amount	Calc.	%Drift			
107	Ethanol	800.000	964.457	-20.6#	137	-0.03	4.25
		AvgRF	CCRF	%Dev			
108	acrolein	3.475	3.673	-5.7	119	0.00	4.74
		Amount	Calc.	%Drift			
109	Tert Butyl Alcohol	400.000	394.423	1.4	117	0.00	5.35
		AvgRF	CCRF	%Dev			
110	tert Amyl alcohol	1.645	1.713	-4.1	116	0.00	7.55
111	Isobutyl alcohol	0.664	0.715	-7.7	121	0.00	7.43
112	1,4-Dioxane	0.175	0.184	-5.1	122	0.00	8.65
113	3,3-Dimethyl-1-butanol	1.707	1.803	-5.6	120	0.00	10.41

(#) = Out of Range SPCC's out = 0 CCC's out = 0
J0981880.D MSJ123016.M Tue Jan 03 10:54:14 2017

Initial Calibration Verification

Job Number: FA39742 **Sample:** VJ5529-ICV5529
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** J0981915.D
Project: BMSMC, Building 5 Area, Humacao, PR

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\data\010317\J0981915.D          Vial: 1
Acq On    :  3 Jan 2017   9:52 am                    Operator: darshnap
Sample    : icv5529-5                                Inst    : MSVOA6
Misc      : MS35465,VJ5529,,,,,                      Multiplr: 1.00
MS Integration Params: RTEINT.P

Method       : C:\msdchem\1\methods\MSJ123016.M (RTE Integrator)
Title        : SW-846 Method 5030B/8260B & EPA 624
Last Update  : Tue Jan 03 08:23:52 2017
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	115	0.00	7.73
2		Dichlorodifluoromethane		----------NA----------				
3	P	Chloromethane		----------NA----------				
4	C	Vinyl Chloride	0.478	0.401	16.1	101	0.00	3.02
		----------	Amount	Calc.	%Drift	----------		
5		1,3-Butadiene		----------NA----------				
6		Bromomethane		----------NA----------				
7		Chloroethane		----------NA----------				
		----------	AvgRF	CCRF	%Dev	----------		
8		Trichlorofluoromethane		----------NA----------				
9		Ethyl Ether		----------NA----------				
10		1,2-Dichlorotrifluoroetha		----------NA----------				
11	C	1,1-Dichloroethene	0.730	0.772	-5.8	118	0.00	4.37
		----------	Amount	Calc.	%Drift	----------		
12		Freon 113		----------NA----------				
		----------	AvgRF	CCRF	%Dev	----------		
13		Carbon Disulfide		----------NA----------				
14		Iodomethane		----------NA----------				
15		Allyl chloride		----------NA----------				
		----------	Amount	Calc.	%Drift	----------		
16		Methylene Chloride		----------NA----------				
		----------	AvgRF	CCRF	%Dev	----------		
17		Acetone		----------NA----------				
18		Methyl acetate		----------NA----------				
19		trans-1,2-Dichloroethene		----------NA----------				
		----------	Amount	Calc.	%Drift	----------		
20		Hexane		----------NA----------				
		----------	AvgRF	CCRF	%Dev	----------		
21		Methyl Tert Butyl Ether		----------NA----------				
		----------	Amount	Calc.	%Drift	----------		
22		Acetonitrile		----------NA----------				
		----------	AvgRF	CCRF	%Dev	----------		

Initial Calibration Verification

Job Number: FA39742 **Sample:** VJ5529-ICV5529
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** J0981915.D
Project: BMSMC, Building 5 Area, Humacao, PR

23		Di-isopropyl ether		----------NA----------			
		----------	Amount	Calc.	%Drift	----------	
24		Chloroprene		----------NA----------			
		----------	AvgRF	CCRF	%Dev	----------	
25	P	1,1-Dichloroethane		----------NA----------			
26		Acrylonitrile		----------NA----------			
27		ETBE		----------NA----------			
		----------	Amount	Calc.	%Drift	----------	
28		Vinyl acetate		----------NA----------			
		----------	AvgRF	CCRF	%Dev	----------	
29		cis-1,2-Dichloroethene		----------NA----------			
30		2,2-Dichloropropane		----------NA----------			
31		Bromochloromethane		----------NA----------			
32		Cyclohexane		----------NA----------			
33	C	Chloroform		----------NA----------			
34		Ethyl acetate		----------NA----------			
		----------	Amount	Calc.	%Drift	----------	
35		Tetrahydrofuran		----------NA----------			
		----------	AvgRF	CCRF	%Dev	----------	
36	S	Dibromofluoromethane	0.236	0.230	2.5	115	0.00 6.91
37		Carbon Tetrachloride		----------NA----------			
38		1,1,1-Trichloroethane		----------NA----------			
39		2-Butanone		----------NA----------			
40		1,1-Dichloropropene		----------NA----------			
41		tert-Butyl Formate	0.500	0.595	-19.0	136	0.00 7.16
42		Propionitrile		----------NA----------			
		----------	Amount	Calc.	%Drift	----------	
43		Methacrylonitrile		----------NA----------			
		----------	AvgRF	CCRF	%Dev	----------	
44		Benzene		----------NA----------			
45		TAME		----------NA----------			
46	S	1,2-Dichloroethane-d4	0.317	0.319	-0.6	114	0.00 7.46
47		1,2-Dichloroethane		----------NA----------			
48		Trichloroethene		----------NA----------			
49		Methylcyclohexane		----------NA----------			
50		Dibromomethane		----------NA----------			
51	C	1,2-Dichloropropane		----------NA----------			
52		Bromodichloromethane		----------NA----------			
		----------	Amount	Calc.	%Drift	----------	
53		Methyl methacrylate		----------NA----------			
		----------	AvgRF	CCRF	%Dev	----------	
54		2-Chloroethyl vinyl ether		----------NA----------			
55		cis-1,3-Dichloropropene		----------NA----------			
56	I	Chlorobenzene-d5	1.000	1.000	0.0	112	0.00 10.82
57	S	Toluene-d8	1.328	1.343	-1.1	115	0.00 9.28
58	C	Toluene		----------NA----------			
59		2-Nitropropane		----------NA----------			
		----------	Amount	Calc.	%Drift	----------	

Initial Calibration Verification

Job Number: FA39742 **Sample:** VJ5529-ICV5529
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** J0981915.D
Project: BMSMC, Building 5 Area, Humacao, PR

60		4-Methyl-2-pentanone		----------NA----------			
		----------	AvgRF	CCRF	%Dev	----------	
61		trans-1,3-Dichloropropene		----------NA----------			
		----------	Amount	Calc.	%Drift	----------	
62		Tetrachloroethene		----------NA----------			
		----------	AvgRF	CCRF	%Dev	----------	
63		Ethyl methacrylate		----------NA----------			
64		1,1,2-Trichloroethane		----------NA----------			
65		Dibromochloromethane		----------NA----------			
66		1,3-Dichloropropane		----------NA----------			
67		1,2-Dibromoethane		----------NA----------			
68		2-hexanone		----------NA----------			
69		1-Chlorohexane		----------NA----------			
70	C	Ethylbenzene		----------NA----------			
71	P	Chlorobenzene		----------NA----------			
72		1,1,1,2-Tetrachloroethane		----------NA----------			
		----------	Amount	Calc.	%Drift	----------	
73		m,p-Xylene		----------NA----------			
		----------	AvgRF	CCRF	%Dev	----------	
74		o-Xylene		----------NA----------			
75		Styrene		----------NA----------			
76	P	Bromoform		----------NA----------			
77		Isopropylbenzene		----------NA----------			
78	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	113	0.00 13.19
79	S	4-Bromofluorobenzene	0.997	1.043	-4.6	119	0.00 12.03
80		cis-1,4-Dichloro-2-butene		----------NA----------			
81		n-Propylbenzene		----------NA----------			
82		Bromobenzene		----------NA----------			
83	P	1,1,2,2-Tetrachloroethane		----------NA----------			
84		1,3,5-Trimethylbenzene		----------NA----------			
85		2-Chlorotoluene		----------NA----------			
86		trans-1,4-Dichloro-2-Bute		----------NA----------			
87		1,2,3-Trichloropropane		----------NA----------			
		----------	Amount	Calc.	%Drift	----------	
88		Cyclohexanone		----------NA----------			
		----------	AvgRF	CCRF	%Dev	----------	
89		4-Chlorotoluene		----------NA----------			
90		a-Methyl Styrene		----------NA----------			
91		tert-Butylbenzene		----------NA----------			
92		1,2,4-Trimethylbenzene		----------NA----------			
93		Pentachloroethane		----------NA----------			
94		sec-Butylbenzene		----------NA----------			
95		4-Isopropyltoluene		----------NA----------			
96		1,3-Dichlorobenzene		----------NA----------			
97		1,4-Dichlorobenzene		----------NA----------			
98		n-Butylbenzene		----------NA----------			
99		Benzyl Chloride		----------NA----------			
100		1,2-Dichlorobenzene		----------NA----------			
101		1,2-Dibromo-3-Chloropropa		----------NA----------			
102		Hexachlorobutadiene		----------NA----------			
103		1,2,4-Trichlorobenzene		----------NA----------			
104		Naphthalene		----------NA----------			

Initial Calibration Verification

Job Number: FA39742 **Sample:** VJ5529-ICV5529
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** J0981915.D
Project: BMSMC, Building 5 Area, Humacao, PR

```
105      1,2,3-Trichlorobenzene      1.868   2.171    -16.2  127   0.00   15.41

106 I    Tert Butyl Alcohol-d10      1.000   1.000      0.0  115   0.00    5.28

             ----------------------- Amount  Calc.    %Drift   -------------
107      Ethanol                              ----------NA----------

             ----------------------- AvgRF   CCRF      %Dev   --------------
108      acrolein                             ----------NA----------
109      Tert Butyl Alcohol          2.118   2.138     -0.9  121   0.00    5.36
110      tert Amyl alcohol                    ----------NA----------
111      Isobutyl alcohol                     ----------NA----------
112      1,4-Dioxane                          ----------NA----------
113      3,3-Dimethyl-1-butanol               ----------NA----------
 ---------------------------------------------------------------------------
 ---------------------------------------------------------------------------

    (#) = Out of Range               SPCC's out = 5  CCC's out = 4
     J0981880.D MSJ123016.M       Wed Jan 04 10:50:05 2017
```

6.7.12

6

Continuing Calibration Summary

Job Number: FA39742 **Sample:** VJ5530-ECC5529
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** J0981943.D
Project: BMSMC, Building 5 Area, Humacao, PR

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\data\010317\J0981943.D          Vial: 23
Acq On    :  3 Jan 2017   9:32 pm                     Operator: darshnap
Sample    : ecc5529-5                                 Inst    : MSVOA6
Misc      : MS35986,VJ5531,,,,,                       Multiplr: 1.00
MS Integration Params: RTEINT.P

Method       : C:\msdchem\1\methods\MSJ123016.M (RTE Integrator)
Title        : SW-846 Method 5030B/8260B & EPA 624
Last Update  : Tue Jan 03 08:23:52 2017
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	101	0.00	7.73
2		Dichlorodifluoromethane	0.544	0.626	-15.1	116	0.00	2.66
3	P	Chloromethane	0.788	0.891	-13.1	116	0.00	2.87
4	C	Vinyl Chloride	0.478	0.546	-14.2	120	0.00	3.02
		----------	Amount	Calc.	%Drift		----------	
5		1,3-Butadiene	40.000	45.845	-14.6	113	0.00	3.01
6		Bromomethane	40.000	33.959	15.1	87	0.00	3.44
7		Chloroethane	40.000	40.095	-0.2	103	0.00	3.59
		----------	AvgRF	CCRF	%Dev		----------	
8		Trichlorofluoromethane	0.582	0.668	-14.8	117	0.00	3.81
9		Ethyl Ether	0.424	0.503	-18.6	117	0.00	4.10
10		1,2-Dichlorotrifluoroetha	0.525	0.638	-21.5	121	0.00	4.33
11	C	1,1-Dichloroethene	0.730	0.881	-20.7#	118	0.00	4.37
		----------	Amount	Calc.	%Drift		----------	
12		Freon 113	40.000	47.463	-18.7	115	0.00	4.44
		----------	AvgRF	CCRF	%Dev		----------	
13		Carbon Disulfide	1.523	1.777	-16.7	114	0.00	4.45
14		Iodomethane	0.775	0.805	-3.9	104	0.00	4.56
15		Allyl chloride	0.875	0.979	-11.9	110	0.00	4.90
		----------	Amount	Calc.	%Drift		----------	
16		Methylene Chloride	40.000	46.342	-15.9	115	0.00	5.03
		----------	AvgRF	CCRF	%Dev		----------	
17		Acetone	0.040	0.046	-15.0	111	0.00	5.04
18		Methyl acetate	0.063	0.079	-25.4	119	0.00	5.17
19		trans-1,2-Dichloroethene	0.709	0.833	-17.5	118	0.00	5.20
		----------	Amount	Calc.	%Drift		----------	
20		Hexane	40.000	48.589	-21.5	121	0.00	5.27
		----------	AvgRF	CCRF	%Dev		----------	
21		Methyl Tert Butyl Ether	1.407	1.580	-12.3	110	0.00	5.31
		----------	Amount	Calc.	%Drift		----------	
22		Acetonitrile	400.000	463.585	-15.9	106	0.00	5.57
		----------	AvgRF	CCRF	%Dev		----------	

Continuing Calibration Summary

Job Number: FA39742 **Sample:** VJ5530-ECC5529
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** J0981943.D
Project: BMSMC, Building 5 Area, Humacao, PR

23		Di-isopropyl ether	1.890	2.287	-21.0	117	0.00	5.69
		----------	Amount	Calc.	%Drift	----------		
24		Chloroprene	40.000	45.012	-12.5	109	0.00	5.85
		----------	AvgRF	CCRF	%Dev	----------		
25	P	1,1-Dichloroethane	0.848	0.971	-14.5	114	0.00	5.87
26		Acrylonitrile	0.177	0.213	-20.3	119	0.00	5.90
27		ETBE	1.744	1.995	-14.4	113	0.00	6.09
		----------	Amount	Calc.	%Drift	----------		
28		Vinyl acetate	200.000	209.169	-4.6	104	0.00	6.08
		----------	AvgRF	CCRF	%Dev	----------		
29		cis-1,2-Dichloroethene	0.524	0.562	-7.3	111	0.00	6.45
30		2,2-Dichloropropane	0.728	0.722	0.8	97	0.00	6.58
31		Bromochloromethane	0.240	0.250	-4.2	105	0.00	6.66
32		Cyclohexane	0.951	1.163	-22.3	118	0.00	6.71
33	C	Chloroform	0.860	0.938	-9.1	110	0.00	6.71
34		Ethyl acetate	0.438	0.545	-24.4	122	0.00	6.78
		----------	Amount	Calc.	%Drift	----------		
35		Tetrahydrofuran	40.000	52.034	-30.1	131	0.00	6.89
		----------	AvgRF	CCRF	%Dev	----------		
36	S	Dibromofluoromethane	0.236	0.228	3.4	100	0.00	6.91
37		Carbon Tetrachloride	0.595	0.658	-10.6	106	0.00	6.91
38		1,1,1-Trichloroethane	0.753	0.847	-12.5	110	0.00	6.97
39		2-Butanone	0.210	0.239	-13.8	115	0.00	7.00
40		1,1-Dichloropropene	0.608	0.713	-17.3	113	0.00	7.08
41		tert-Butyl Formate	0.500	0.480	4.0	96	0.00	7.16
42		Propionitrile	0.065	0.073	-12.3	111	0.00	7.31
		----------	Amount	Calc.	%Drift	----------		
43		Methacrylonitrile	400.000	490.664	-22.7	117	0.00	7.33
		----------	AvgRF	CCRF	%Dev	----------		
44		Benzene	1.596	1.804	-13.0	110	0.00	7.33
45		TAME	1.423	1.644	-15.5	110	0.00	7.41
46	S	1,2-Dichloroethane-d4	0.317	0.338	-6.6	106	0.00	7.46
47		1,2-Dichloroethane	0.660	0.775	-17.4	115	0.00	7.52
48		Trichloroethene	0.467	0.543	-16.3	112	0.00	7.91
49		Methylcyclohexane	0.835	1.002	-20.0	115	0.00	7.93
50		Dibromomethane	0.283	0.325	-14.8	114	0.00	8.34
51	C	1,2-Dichloropropane	0.496	0.588	-18.5	114	0.00	8.43
52		Bromodichloromethane	0.619	0.672	-8.6	109	0.00	8.47
		----------	Amount	Calc.	%Drift	----------		
53		Methyl methacrylate	40.000	47.664	-19.2	115	0.00	8.57
		----------	AvgRF	CCRF	%Dev	----------		
54		2-Chloroethyl vinyl ether	0.294	0.346	-17.7	115	0.00	8.99
55		cis-1,3-Dichloropropene	0.759	0.841	-10.8	108	0.00	9.09
56	I	Chlorobenzene-d5	1.000	1.000	0.0	100	0.00	10.82
57	S	Toluene-d8	1.328	1.334	-0.5	101	0.00	9.28
58	C	Toluene	2.478	2.809	-13.4	110	0.00	9.33
59		2-Nitropropane	0.163	0.194	-19.0	118	0.00	9.53
		----------	Amount	Calc.	%Drift	----------		

Continuing Calibration Summary

Job Number: FA39742 **Sample:** VJ5530-ECC5529
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** J0981943.D
Project: BMSMC, Building 5 Area, Humacao, PR

60		4-Methyl-2-pentanone	200.000	240.084	-20.0	115	0.00	9.65
		----------	AvgRF	CCRF	%Dev	----------		
61		trans-1,3-Dichloropropene	0.910	1.030	-13.2	107	0.00	9.71
		----------	Amount	Calc.	%Drift	----------		
62		Tetrachloroethene	40.000	55.688	-39.2	134	0.00	9.73
		----------	AvgRF	CCRF	%Dev	----------		
63		Ethyl methacrylate	0.861	0.979	-13.7	109	0.00	9.82
64		1,1,2-Trichloroethane	0.458	0.546	-19.2	114	0.00	9.88
65		Dibromochloromethane	0.615	0.658	-7.0	102	0.00	10.08
66		1,3-Dichloropropane	1.015	1.202	-18.4	114	0.00	10.16
67		1,2-Dibromoethane	0.572	0.652	-14.0	108	0.00	10.34
68		2-hexanone	0.450	0.553	-22.9	117	0.00	10.47
69		1-Chlorohexane	0.920	1.095	-19.0	109	0.00	10.77
70	C	Ethylbenzene	2.779	3.135	-12.8	108	0.00	10.84
71	P	Chlorobenzene	1.705	1.846	-8.3	104	0.00	10.84
72		1,1,1,2-Tetrachloroethane	0.628	0.668	-6.4	101	0.00	10.89
		----------	Amount	Calc.	%Drift	----------		
73		m,p-Xylene	80.000	89.100	-11.4	108	0.00	10.98
		----------	AvgRF	CCRF	%Dev	----------		
74		o-Xylene	2.548	2.891	-13.5	109	0.00	11.42
75		Styrene	1.760	2.013	-14.4	106	0.00	11.46
76	P	Bromoform	0.431	0.422	2.1	91	0.00	11.52
77		Isopropylbenzene	2.968	3.372	-13.6	109	0.00	11.72
78	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	98	0.00	13.19
79	S	4-Bromofluorobenzene	0.997	1.051	-5.4	104	0.00	12.03
80		cis-1,4-Dichloro-2-butene	0.401	0.329	18.0	78	0.00	12.06
81		n-Propylbenzene	6.637	7.544	-13.7	109	0.00	12.14
82		Bromobenzene	1.384	1.437	-3.8	98	0.00	12.16
83	P	1,1,2,2-Tetrachloroethane	1.451	1.584	-9.2	109	0.00	12.20
84		1,3,5-Trimethylbenzene	4.400	4.939	-12.2	106	0.00	12.32
85		2-Chlorotoluene	4.516	5.029	-11.4	107	0.00	12.33
86		trans-1,4-Dichloro-2-Bute	0.441	0.426	3.4	94	0.00	12.38
87		1,2,3-Trichloropropane	0.375	0.438	-16.8	108	0.00	12.36
		----------	Amount	Calc.	%Drift	----------		
88		Cyclohexanone	200.000	214.268	-7.1	103	0.00	12.42
		----------	AvgRF	CCRF	%Dev	----------		
89		4-Chlorotoluene	4.309	4.893	-13.6	106	0.00	12.50
90		a-Methyl Styrene	2.747	2.985	-8.7	99	0.00	12.59
91		tert-Butylbenzene	2.868	3.291	-14.7	110	0.00	12.66
92		1,2,4-Trimethylbenzene	4.359	4.976	-14.2	108	0.00	12.73
93		Pentachloroethane	0.854	0.379	55.6#	44#	0.00	12.72
94		sec-Butylbenzene	5.969	6.997	-17.2	110	0.00	12.85
95		4-Isopropyltoluene	4.704	5.344	-13.6	105	0.00	12.98
96		1,3-Dichlorobenzene	2.818	3.056	-8.4	101	0.00	13.12
97		1,4-Dichlorobenzene	2.925	3.078	-5.2	102	0.00	13.20
98		n-Butylbenzene	2.870	3.330	-16.0	108	0.00	13.41
99		Benzyl Chloride	0.594	0.537	9.6	81	0.00	13.43
100		1,2-Dichlorobenzene	2.838	3.027	-6.7	103	0.00	13.62
101		1,2-Dibromo-3-Chloropropa	0.287	0.335	-16.7	114	0.00	14.36
102		Hexachlorobutadiene	1.197	1.199	-0.2	96	0.00	14.91
103		1,2,4-Trichlorobenzene	2.013	2.106	-4.6	101	0.00	14.95
104		Naphthalene	3.895	4.610	-18.4	109	0.00	15.24

Continuing Calibration Summary

Job Number: FA39742 **Sample:** VJ5530-ECC5529
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** J0981943.D
Project: BMSMC, Building 5 Area, Humacao, PR

105	1,2,3-Trichlorobenzene	1.868	1.924	-3.0	98	0.00	15.41
106 I	Tert Butyl Alcohol-d10	1.000	1.000	0.0	106	0.00	5.28
	----------	Amount	Calc.	%Drift	----------		
107	Ethanol	800.000	909.520	-13.7	120	-0.01	4.27
	----------	AvgRF	CCRF	%Dev	----------		
108	acrolein	3.475	3.536	-1.8	107	0.00	4.73
109	Tert Butyl Alcohol	2.118	2.283	-7.8	119	0.00	5.35
110	tert Amyl alcohol	1.645	1.783	-8.4	113	0.00	7.55
111	Isobutyl alcohol	0.664	0.743	-11.9	117	0.00	7.43
112	1,4-Dioxane	0.175	0.184	-5.1	113	-0.01	8.64
113	3,3-Dimethyl-1-butanol	1.707	1.840	-7.8	114	0.00	10.41

(#) = Out of Range SPCC's out = 0 CCC's out = 1
J0981880.D MSJ123016.M Wed Jan 04 09:57:29 2017

6.7.13 6

Continuing Calibration Summary

Job Number: FA39742 **Sample:** VJ5532-CC5529
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** J0981946.D
Project: BMSMC, Building 5 Area, Humacao, PR

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\data\010417\J0981946.D          Vial: 1
Acq On    :  4 Jan 2017   8:58 am                    Operator: darshnap
Sample    : CC5529-5                                 Inst    : MSVOA6
Misc      : MS35986,VJ5532,,,,,                      Multiplr: 1.00
MS Integration Params: RTEINT.P

Method       : C:\msdchem\1\methods\MSJ123016.M (RTE Integrator)
Title        : SW-846 Method 5030B/8260B & EPA 624
Last Update  : Tue Jan 03 08:23:52 2017
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	108	0.00	7.73
2		Dichlorodifluoromethane	0.544	0.501	7.9	99	0.00	2.66
3	P	Chloromethane	0.788	0.786	0.3	110	0.00	2.87
4	C	Vinyl Chloride	0.478	0.445	6.9	105	0.00	3.02
		----------	Amount	Calc.	%Drift		----------	
5		1,3-Butadiene	40.000	37.624	5.9	99	0.00	3.01
6		Bromomethane	40.000	30.826	22.9#	86	0.00	3.44
7		Chloroethane	40.000	32.024	19.9	90	0.00	3.59
		----------	AvgRF	CCRF	%Dev		----------	
8		Trichlorofluoromethane	0.582	0.514	11.7	97	0.00	3.80
9		Ethyl Ether	0.424	0.451	-6.4	113	0.00	4.10
10		1,2-Dichlorotrifluoroetha	0.525	0.006	98.9#	1#	0.11	4.43
11	C	1,1-Dichloroethene	0.730	0.821	-12.5	118	0.00	4.37
		----------	Amount	Calc.	%Drift		----------	
12		Freon 113	40.000	40.028	-0.1	104	0.00	4.44
		----------	AvgRF	CCRF	%Dev		----------	
13		Carbon Disulfide	1.523	1.599	-5.0	109	0.00	4.46
14		Iodomethane	0.775	0.714	7.9	99	0.00	4.56
15		Allyl chloride	0.875	0.940	-7.4	113	0.00	4.90
		----------	Amount	Calc.	%Drift		----------	
16		Methylene Chloride	40.000	47.132	-17.8	125	0.00	5.02
		----------	AvgRF	CCRF	%Dev		----------	
17		Acetone	0.040	0.046	-15.0	119	0.00	5.05
18		Methyl acetate	0.063	0.072	-14.3	116	0.00	5.17
19		trans-1,2-Dichloroethene	0.709	0.784	-10.6	119	0.00	5.21
		----------	Amount	Calc.	%Drift		----------	
20		Hexane	40.000	42.826	-7.1	114	0.00	5.27
		----------	AvgRF	CCRF	%Dev		----------	
21		Methyl Tert Butyl Ether	1.407	1.461	-3.8	109	0.00	5.31
		----------	Amount	Calc.	%Drift		----------	
22		Acetonitrile	400.000	473.041	-18.3	116	0.00	5.57
		----------	AvgRF	CCRF	%Dev		----------	

Continuing Calibration Summary

Job Number: FA39742 **Sample:** VJ5532-CC5529
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** J0981946.D
Project: BMSMC, Building 5 Area, Humacao, PR

23		Di-isopropyl ether	1.890	2.082	-10.2	114	0.00	5.70
		----------	Amount	Calc.	%Drift	----------		
24		Chloroprene	40.000	40.453	-1.1	105	0.00	5.84
		----------	AvgRF	CCRF	%Dev	----------		
25	P	1,1-Dichloroethane	0.848	0.977	-15.2	123	0.00	5.87
26		Acrylonitrile	0.177	0.210	-18.6	125	0.00	5.90
27		ETBE	1.744	1.821	-4.4	111	0.00	6.09
		----------	Amount	Calc.	%Drift	----------		
28		Vinyl acetate	200.000	239.323	-19.7	125	0.00	6.08
		----------	AvgRF	CCRF	%Dev	----------		
29		cis-1,2-Dichloroethene	0.524	0.537	-2.5	113	0.00	6.45
30		2,2-Dichloropropane	0.728	0.815	-12.0	118	0.00	6.58
31		Bromochloromethane	0.240	0.229	4.6	103	0.00	6.66
32		Cyclohexane	0.951	0.986	-3.7	107	0.00	6.71
33	C	Chloroform	0.860	0.861	-0.1	109	0.00	6.71
34		Ethyl acetate	0.438	0.525	-19.9	125	0.00	6.78
		----------	Amount	Calc.	%Drift	----------		
35		Tetrahydrofuran	40.000	45.720	-14.3	124	0.00	6.89
		----------	AvgRF	CCRF	%Dev	----------		
36	S	Dibromofluoromethane	0.236	0.228	3.4	107	0.00	6.91
37		Carbon Tetrachloride	0.595	0.603	-1.3	104	0.00	6.91
38		1,1,1-Trichloroethane	0.753	0.770	-2.3	107	0.00	6.97
39		2-Butanone	0.210	0.241	-14.8	124	0.00	7.00
40		1,1-Dichloropropene	0.608	0.630	-3.6	107	0.00	7.08
41		tert-Butyl Formate	0.500	0.519	-3.8	112	0.00	7.16
42		Propionitrile	0.065	0.074	-13.8	121	0.00	7.31
		----------	Amount	Calc.	%Drift	----------		
43		Methacrylonitrile	400.000	471.640	-17.9	121	0.00	7.33
		----------	AvgRF	CCRF	%Dev	----------		
44		Benzene	1.596	1.826	-14.4	120	0.00	7.33
45		TAME	1.423	1.499	-5.3	107	0.00	7.41
46	S	1,2-Dichloroethane-d4	0.317	0.329	-3.8	111	0.00	7.46
47		1,2-Dichloroethane	0.660	0.731	-10.8	116	0.00	7.52
48		Trichloroethene	0.467	0.498	-6.6	110	0.00	7.91
49		Methylcyclohexane	0.835	0.875	-4.8	108	0.00	7.93
50		Dibromomethane	0.283	0.312	-10.2	117	0.00	8.33
51	C	1,2-Dichloropropane	0.496	0.559	-12.7	116	0.00	8.43
52		Bromodichloromethane	0.619	0.655	-5.8	114	0.00	8.47
		----------	Amount	Calc.	%Drift	----------		
53		Methyl methacrylate	40.000	46.197	-15.5	120	0.00	8.57
		----------	AvgRF	CCRF	%Dev	----------		
54		2-Chloroethyl vinyl ether	0.294	0.346	-17.7	123	0.00	8.99
55		cis-1,3-Dichloropropene	0.759	0.819	-7.9	112	0.00	9.09
56	I	Chlorobenzene-d5	1.000	1.000	0.0	104	0.00	10.82
57	S	Toluene-d8	1.328	1.362	-2.6	108	0.00	9.28
58	C	Toluene	2.478	2.884	-16.4	118	0.00	9.33
59		2-Nitropropane	0.163	0.189	-16.0	120	0.00	9.53
		----------	Amount	Calc.	%Drift	----------		

Continuing Calibration Summary

Job Number: FA39742 **Sample:** VJ5532-CC5529
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** J0981946.D
Project: BMSMC, Building 5 Area, Humacao, PR

60		4-Methyl-2-pentanone	200.000	241.019	-20.5#	121	0.00	9.65
		----------	AvgRF	CCRF	%Dev	----------		
61		trans-1,3-Dichloropropene	0.910	1.129	-24.1#	122	0.00	9.71
		----------	Amount	Calc.	%Drift	----------		
62		Tetrachloroethene	40.000	35.364	11.6	89	0.00	9.74
		----------	AvgRF	CCRF	%Dev	----------		
63		Ethyl methacrylate	0.861	0.984	-14.3	115	0.00	9.82
64		1,1,2-Trichloroethane	0.458	0.559	-22.1#	121	0.00	9.88
65		Dibromochloromethane	0.615	0.683	-11.1	110	0.00	10.08
66		1,3-Dichloropropane	1.015	1.122	-10.5	111	0.00	10.16
67		1,2-Dibromoethane	0.572	0.641	-12.1	111	0.00	10.34
68		2-hexanone	0.450	0.552	-22.7#	122	0.00	10.47
69		1-Chlorohexane	0.920	0.998	-8.5	104	0.00	10.77
70	C	Ethylbenzene	2.779	3.160	-13.7	114	0.00	10.84
71	P	Chlorobenzene	1.705	1.796	-5.3	106	0.00	10.84
72		1,1,1,2-Tetrachloroethane	0.628	0.683	-8.8	107	0.00	10.89
		----------	Amount	Calc.	%Drift	----------		
73		m,p-Xylene	80.000	86.306	-7.9	109	0.00	10.98
		----------	AvgRF	CCRF	%Dev	----------		
74		o-Xylene	2.548	2.745	-7.7	108	0.00	11.42
75		Styrene	1.760	2.065	-17.3	113	0.00	11.46
76	P	Bromoform	0.431	0.432	-0.2	97	0.00	11.52
77		Isopropylbenzene	2.968	3.229	-8.8	109	0.00	11.72
78	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	104	0.00	13.19
79	S	4-Bromofluorobenzene	0.997	1.049	-5.2	110	0.00	12.03
80		cis-1,4-Dichloro-2-butene	0.401	0.388	3.2	98	0.00	12.07
81		n-Propylbenzene	6.637	7.107	-7.1	109	0.00	12.14
82		Bromobenzene	1.384	1.509	-9.0	110	0.00	12.16
83	P	1,1,2,2-Tetrachloroethane	1.451	1.560	-7.5	114	0.00	12.20
84		1,3,5-Trimethylbenzene	4.400	4.973	-13.0	113	0.00	12.32
85		2-Chlorotoluene	4.516	4.786	-6.0	108	0.00	12.33
86		trans-1,4-Dichloro-2-Bute	0.441	0.445	-0.9	104	0.00	12.38
87		1,2,3-Trichloropropane	0.375	0.413	-10.1	108	0.00	12.36
		----------	Amount	Calc.	%Drift	----------		
88		Cyclohexanone	200.000	284.827	-42.4#	144	0.00	12.42
		----------	AvgRF	CCRF	%Dev	----------		
89		4-Chlorotoluene	4.309	4.653	-8.0	107	0.00	12.50
90		a-Methyl Styrene	2.747	2.918	-6.2	103	0.00	12.59
91		tert-Butylbenzene	2.868	3.024	-5.4	108	0.00	12.66
92		1,2,4-Trimethylbenzene	4.359	4.987	-14.4	115	0.00	12.73
93		Pentachloroethane	0.854	0.935	-9.5	114	0.00	12.72
94		sec-Butylbenzene	5.969	6.451	-8.1	107	0.00	12.85
95		4-Isopropyltoluene	4.704	5.395	-14.7	112	0.00	12.98
96		1,3-Dichlorobenzene	2.818	3.002	-6.5	105	0.00	13.12
97		1,4-Dichlorobenzene	2.925	2.942	-0.6	104	0.00	13.20
98		n-Butylbenzene	2.870	3.376	-17.6	116	0.00	13.41
99		Benzyl Chloride	0.594	0.618	-4.0	98	0.00	13.43
100		1,2-Dichlorobenzene	2.838	2.910	-2.5	105	0.00	13.63
101		1,2-Dibromo-3-Chloropropa	0.287	0.320	-11.5	116	0.00	14.36
102		Hexachlorobutadiene	1.197	1.080	9.8	92	0.00	14.91
103		1,2,4-Trichlorobenzene	2.013	2.110	-4.8	107	0.00	14.95
104		Naphthalene	3.895	4.974	-27.7#	125	0.00	15.24

Continuing Calibration Summary

Job Number: FA39742 **Sample:** VJ5532-CC5529
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** J0981946.D
Project: BMSMC, Building 5 Area, Humacao, PR

105	1,2,3-Trichlorobenzene	1.868	1.994	-6.7	107	0.00	15.41
106 I	Tert Butyl Alcohol-d10	1.000	1.000	0.0	108	0.00	5.28

		Amount	Calc.	%Drift			
107	Ethanol	800.000	918.397	-14.8	123	-0.01	4.27

		AvgRF	CCRF	%Dev			
108	acrolein	3.475	3.653	-5.1	112	0.00	4.73
109	Tert Butyl Alcohol	2.118	2.054	3.0	109	0.00	5.35
110	tert Amyl alcohol	1.645	1.645	0.0	106	0.00	7.55
111	Isobutyl alcohol	0.664	0.723	-8.9	116	0.00	7.43
112	1,4-Dioxane	0.175	0.165	5.7	103	-0.01	8.64
113	3,3-Dimethyl-1-butanol	1.707	1.770	-3.7	111	0.00	10.41

(#) = Out of Range SPCC's out = 0 CCC's out = 0
J0981880.D MSJ123016.M Wed Jan 04 10:05:43 2017

6.7.14

6

Continuing Calibration Summary

Job Number: FA39742 **Sample:** VJ5532-ECC5529
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** J0981967.D
Project: BMSMC, Building 5 Area, Humacao, PR

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\data\010417\J0981967.D          Vial: 17
Acq On    :  4 Jan 2017   6:04 pm                    Operator: darshnap
Sample    : ecc5529-5                                Inst    : MSVOA6
Misc      : MS35997,VJ5532,,,,,                      Multiplr: 1.00
MS Integration Params: RTEINT.P

Method       : C:\msdchem\1\methods\MSJ123016.M (RTE Integrator)
Title        : SW-846 Method 5030B/8260B & EPA 624
Last Update  : Tue Jan 03 08:23:52 2017
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	80	0.00	7.73
2		Dichlorodifluoromethane	0.544	0.615	-13.1	90	0.00	2.65
3	P	Chloromethane	0.788	0.975	-23.7	101	0.00	2.87
4	C	Vinyl Chloride	0.478	0.594	-24.3#	103	0.00	3.02
			Amount	Calc.	%Drift			
5		1,3-Butadiene	40.000	49.848	-24.6	97	0.00	3.01
6		Bromomethane	40.000	34.578	13.6	71	0.00	3.43
7		Chloroethane	40.000	38.201	4.5	78	0.00	3.59
			AvgRF	CCRF	%Dev			
8		Trichlorofluoromethane	0.582	0.628	-7.9	87	0.00	3.80
9		Ethyl Ether	0.424	0.485	-14.4	90	0.00	4.10
10		1,2-Dichlorotrifluoroetha	0.525	0.618	-17.7	93	0.00	4.33
11	C	1,1-Dichloroethene	0.730	0.860	-17.8	91	0.00	4.37
			Amount	Calc.	%Drift			
12		Freon 113	40.000	44.347	-10.9	85	0.00	4.44
			AvgRF	CCRF	%Dev			
13		Carbon Disulfide	1.523	1.708	-12.1	87	0.00	4.46
14		Iodomethane	0.775	0.721	7.0	74	0.00	4.57
15		Allyl chloride	0.875	1.031	-17.8	92	0.00	4.90
			Amount	Calc.	%Drift			
16		Methylene Chloride	40.000	49.224	-23.1	96	0.00	5.03
			AvgRF	CCRF	%Dev			
17		Acetone	0.040	0.049	-22.5	92	0.00	5.05
18		Methyl acetate	0.063	0.077	-22.2	91	0.00	5.17
19		trans-1,2-Dichloroethene	0.709	0.805	-13.5	90	0.00	5.21
			Amount	Calc.	%Drift			
20		Hexane	40.000	46.551	-16.4	92	0.00	5.27
			AvgRF	CCRF	%Dev			
21		Methyl Tert Butyl Ether	1.407	1.561	-10.9	86	0.00	5.31
			Amount	Calc.	%Drift			
22		Acetonitrile	400.000	516.710	-29.2	93	0.00	5.58
			AvgRF	CCRF	%Dev			

Continuing Calibration Summary

Job Number: FA39742 **Sample:** VJ5532-ECC5529
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** J0981967.D
Project: BMSMC, Building 5 Area, Humacao, PR

23		Di-isopropyl ether	1.890	2.344	-24.0	95	0.00	5.69
		----------	Amount	Calc.	%Drift		----------	
24		Chloroprene	40.000	47.750	-19.4	92	0.00	5.85
		----------	AvgRF	CCRF	%Dev		----------	
25	P	1,1-Dichloroethane	0.848	0.970	-14.4	90	0.00	5.87
26		Acrylonitrile	0.177	0.226	-27.7	100	0.00	5.90
27		ETBE	1.744	1.958	-12.3	88	0.00	6.09
		----------	Amount	Calc.	%Drift		----------	
28		Vinyl acetate	200.000	273.697	-36.8	103	0.00	6.08
		----------	AvgRF	CCRF	%Dev		----------	
29		cis-1,2-Dichloroethene	0.524	0.550	-5.0	86	0.00	6.45
30		2,2-Dichloropropane	0.728	0.715	1.8	76	0.00	6.58
31		Bromochloromethane	0.240	0.241	-0.4	81	0.00	6.66
32		Cyclohexane	0.951	1.079	-13.5	87	0.00	6.71
33	C	Chloroform	0.860	0.909	-5.7	85	0.00	6.71
34		Ethyl acetate	0.438	0.609	-39.0	108	0.00	6.78
		----------	Amount	Calc.	%Drift		----------	
35		Tetrahydrofuran	40.000	53.412	-33.5	107	0.00	6.90
		----------	AvgRF	CCRF	%Dev		----------	
36	S	Dibromofluoromethane	0.236	0.225	4.7	78	0.00	6.91
37		Carbon Tetrachloride	0.595	0.576	3.2	73	0.00	6.91
38		1,1,1-Trichloroethane	0.753	0.802	-6.5	83	0.00	6.97
39		2-Butanone	0.210	0.256	-21.9	98	0.00	7.00
40		1,1-Dichloropropene	0.608	0.687	-13.0	86	0.00	7.08
41		tert-Butyl Formate	0.500	0.511	-2.2	81	0.00	7.16
42		Propionitrile	0.065	0.080	-23.1	97	0.00	7.31
		----------	Amount	Calc.	%Drift		----------	
43		Methacrylonitrile	400.000	563.544	-40.9	104	0.00	7.33
		----------	AvgRF	CCRF	%Dev		----------	
44		Benzene	1.596	1.768	-10.8	86	0.00	7.33
45		TAME	1.423	1.602	-12.6	85	0.00	7.41
46	S	1,2-Dichloroethane-d4	0.317	0.354	-11.7	88	0.00	7.46
47		1,2-Dichloroethane	0.660	0.751	-13.8	88	0.00	7.52
48		Trichloroethene	0.467	0.504	-7.9	83	0.00	7.91
49		Methylcyclohexane	0.835	0.943	-12.9	86	0.00	7.93
50		Dibromomethane	0.283	0.315	-11.3	87	0.00	8.34
51	C	1,2-Dichloropropane	0.496	0.588	-18.5	91	0.00	8.43
52		Bromodichloromethane	0.619	0.657	-6.1	84	0.00	8.47
		----------	Amount	Calc.	%Drift		----------	
53		Methyl methacrylate	40.000	52.354	-30.9	100	0.00	8.57
		----------	AvgRF	CCRF	%Dev		----------	
54		2-Chloroethyl vinyl ether	0.294	0.363	-23.5	96	0.00	8.99
55		cis-1,3-Dichloropropene	0.759	0.847	-11.6	86	0.00	9.09
56	I	Chlorobenzene-d5	1.000	1.000	0.0	79	0.00	10.82
57	S	Toluene-d8	1.328	1.345	-1.3	81	0.00	9.28
58	C	Toluene	2.478	2.723	-9.9	84	0.00	9.33
59		2-Nitropropane	0.163	0.204	-25.2	98	0.00	9.53
		----------	Amount	Calc.	%Drift		----------	

Continuing Calibration Summary

Job Number: FA39742 **Sample:** VJ5532-ECC5529
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** J0981967.D
Project: BMSMC, Building 5 Area, Humacao, PR

60		4-Methyl-2-pentanone	200.000	267.648	-33.8	100	0.00	9.65
		----------	AvgRF	CCRF	%Dev	----------		
61		trans-1,3-Dichloropropene	0.910	1.026	-12.7	84	0.00	9.71
		----------	Amount	Calc.	%Drift	----------		
62		Tetrachloroethene	40.000	36.331	9.2	69	0.00	9.74
		----------	AvgRF	CCRF	%Dev	----------		
63		Ethyl methacrylate	0.861	1.064	-23.6	94	0.00	9.82
64		1,1,2-Trichloroethane	0.458	0.539	-17.7	89	0.00	9.88
65		Dibromochloromethane	0.615	0.619	-0.7	76	0.00	10.08
66		1,3-Dichloropropane	1.015	1.188	-17.0	89	0.00	10.16
67		1,2-Dibromoethane	0.572	0.645	-12.8	85	0.00	10.34
68		2-hexanone	0.450	0.605	-34.4	101	0.00	10.47
69		1-Chlorohexane	0.920	1.063	-15.5	84	0.00	10.77
70	C	Ethylbenzene	2.779	3.056	-10.0	83	0.00	10.84
71	P	Chlorobenzene	1.705	1.816	-6.5	81	0.00	10.84
72		1,1,1,2-Tetrachloroethane	0.628	0.637	-1.4	76	0.00	10.90
		----------	Amount	Calc.	%Drift	----------		
73		m,p-Xylene	80.000	87.917	-9.9	84	0.00	10.98
		----------	AvgRF	CCRF	%Dev	----------		
74		o-Xylene	2.548	2.856	-12.1	85	0.00	11.42
75		Styrene	1.760	1.964	-11.6	82	0.00	11.46
76	P	Bromoform	0.431	0.381	11.6	65	0.00	11.52
77		Isopropylbenzene	2.968	3.280	-10.5	84	0.00	11.72
78	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	78	0.00	13.18
79	S	4-Bromofluorobenzene	0.997	1.045	-4.8	82	0.00	12.03
80		cis-1,4-Dichloro-2-butene	0.401	0.324	19.2	61	0.00	12.06
81		n-Propylbenzene	6.637	7.563	-14.0	87	0.00	12.14
82		Bromobenzene	1.384	1.382	0.1	75	0.00	12.16
83	P	1,1,2,2-Tetrachloroethane	1.451	1.646	-13.4	90	0.00	12.20
84		1,3,5-Trimethylbenzene	4.400	4.899	-11.3	83	0.00	12.32
85		2-Chlorotoluene	4.516	5.037	-11.5	85	0.00	12.33
86		trans-1,4-Dichloro-2-Bute	0.441	0.348	21.1	61	0.00	12.38
87		1,2,3-Trichloropropane	0.375	0.429	-14.4	84	0.00	12.36
		----------	Amount	Calc.	%Drift	----------		
88		Cyclohexanone	200.000	209.531	-4.8	80	0.00	12.42
		----------	AvgRF	CCRF	%Dev	----------		
89		4-Chlorotoluene	4.309	4.969	-15.3	85	0.00	12.50
90		a-Methyl Styrene	2.747	3.236	-17.8	85	0.00	12.59
91		tert-Butylbenzene	2.868	3.295	-14.9	88	0.00	12.66
92		1,2,4-Trimethylbenzene	4.359	4.947	-13.5	85	0.00	12.73
93		Pentachloroethane	0.854	0.829	2.9	75	0.00	12.72
94		sec-Butylbenzene	5.969	6.857	-14.9	85	0.00	12.85
95		4-Isopropyltoluene	4.704	5.289	-12.4	82	0.00	12.98
96		1,3-Dichlorobenzene	2.818	3.045	-8.1	80	0.00	13.12
97		1,4-Dichlorobenzene	2.925	3.063	-4.7	81	0.00	13.20
98		n-Butylbenzene	2.870	3.331	-16.1	86	0.00	13.41
99		Benzyl Chloride	0.594	0.536	9.8	64	0.00	13.43
100		1,2-Dichlorobenzene	2.838	2.988	-5.3	81	0.00	13.63
101		1,2-Dibromo-3-Chloropropa	0.287	0.311	-8.4	84	0.00	14.36
102		Hexachlorobutadiene	1.197	1.036	13.5	66	0.00	14.91
103		1,2,4-Trichlorobenzene	2.013	1.980	1.6	75	0.00	14.96
104		Naphthalene	3.895	4.543	-16.6	85	0.00	15.24

Continuing Calibration Summary

Job Number: FA39742 **Sample:** VJ5532-ECC5529
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** J0981967.D
Project: BMSMC, Building 5 Area, Humacao, PR

105	1,2,3-Trichlorobenzene	1.868	1.831	2.0	74	0.00	15.41
106 I	Tert Butyl Alcohol-d10	1.000	1.000	0.0	81	0.00	5.28

		Amount	Calc.	%Drift			
107	Ethanol	800.000	1062.040	-32.8	107	-0.01	4.27

		AvgRF	CCRF	%Dev			
108	acrolein	3.475	4.285	-23.3	99	0.00	4.74
109	Tert Butyl Alcohol	2.118	2.154	-1.7	85	0.01	5.37
110	tert Amyl alcohol	1.645	1.816	-10.4	87	0.00	7.55
111	Isobutyl alcohol	0.664	0.819	-23.3	98	0.00	7.43
112	1,4-Dioxane	0.175	0.180	-2.9	84	0.00	8.65
113	3,3-Dimethyl-1-butanol	1.707	1.829	-7.1	86	0.00	10.41

(#) = Out of Range SPCC's out = 0 CCC's out = 1
J0981880.D MSJ123016.M Thu Jan 05 08:05:07 2017

GC/MS Volatiles

Raw Data

Manual Integrations APPROVED (compounds with "m" flag)
Juan Garcia
12/30/16 16:23

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\122916\
Data File : I44601.D
Acq On : 29 Dec 2016 12:27 pm
Operator : WILFREDO
Sample : FA39742-1 Inst : MSVOA16
Misc : MS35956,VI1227,,,,,
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Dec 29 13:11:10 2016
Quant Method : C:\msdchem\2\METHODS\I-DEC22.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Dec 23 09:02:35 2016
Response via : Initial Calibration

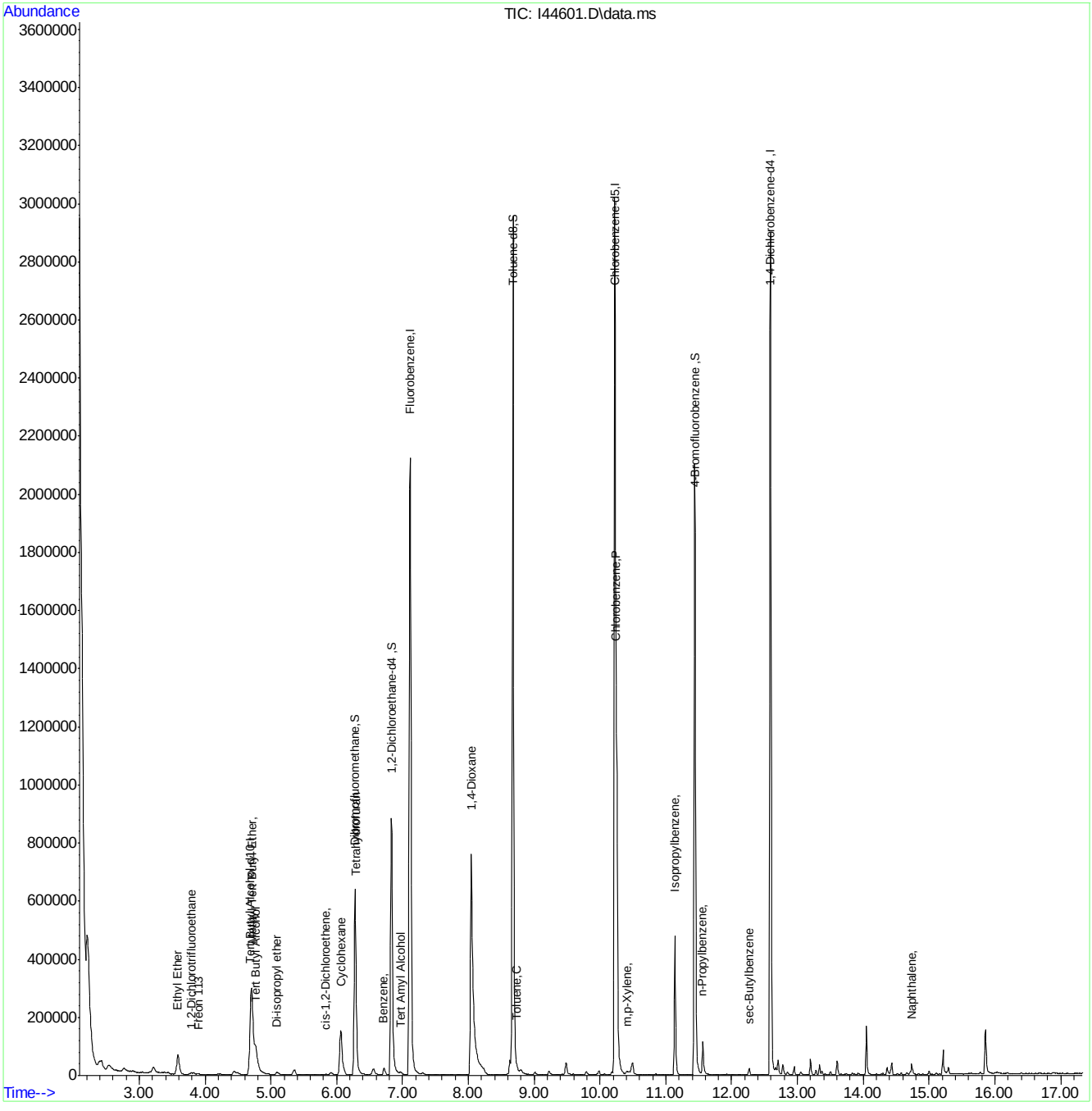
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.116	96	1753600	50.00	ug/L	0.00
56) Chlorobenzene-d5	10.225	117	1191014	50.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	12.591	152	546027	50.00	ug/L	0.00
106) Tert Butyl Alcohol-d10	4.690	65	152852	250.00	ug/L	0.00
System Monitoring Compounds						
36) Dibromofluoromethane	6.275	113	439064	49.60	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 99.20%			
46) 1,2-Dichloroethane-d4	6.830	65	664211	53.13	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 106.26%			
57) Toluene-d8	8.677	98	1616352	49.63	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 99.26%			
79) 4-Bromofluorobenzene	11.445	174	398783	50.14	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 100.28%			
Target Compounds						Qvalue
9) Ethyl Ether	3.586	59	61779	6.01	ug/L	93
10) 1,2-Dichlorotrifluoroe...	3.788	67	12970m	1.09	ug/L	
12) Freon 113	3.897	101	3433	0.37	ug/L	85
21) Methyl Tert Butyl Ether	4.708	73	251955	10.37	ug/L #	59
23) Di-isopropyl ether	5.092	45	11595	0.31	ug/L	91
29) cis-1,2-Dichloroethene	5.830	96	2031	0.22	ug/L	81
32) Cyclohexane	6.062	56	99957	4.85	ug/L	92
35) Tetrahydrofuran	6.287	42	6178	2.34	ug/L	86
44) Benzene	6.714	78	23809	0.71	ug/L	65
58) Toluene	8.738	91	7191	0.21	ug/L	99
71) Chlorobenzene	10.244	112	225393	9.50	ug/L	89
73) m,p-Xylene	10.408	91	6832	0.24	ug/L	96
77) Isopropylbenzene	11.140	105	263265	7.43	ug/L	99
81) n-Propylbenzene	11.560	91	84008	1.91	ug/L	97
94) sec-Butylbenzene	12.268	105	10735	0.28	ug/L	80
104) Naphthalene	14.737	128	22258	0.99	ug/L	97
109) Tert Butyl Alcohol	4.769	59	146626	191.79	ug/L #	83
111) Tert Amyl Alcohol	6.970	59	3603	6.03	ug/L #	46
112) 1,4-Dioxane	8.043	88	712633	10664.86	ug/L	93

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

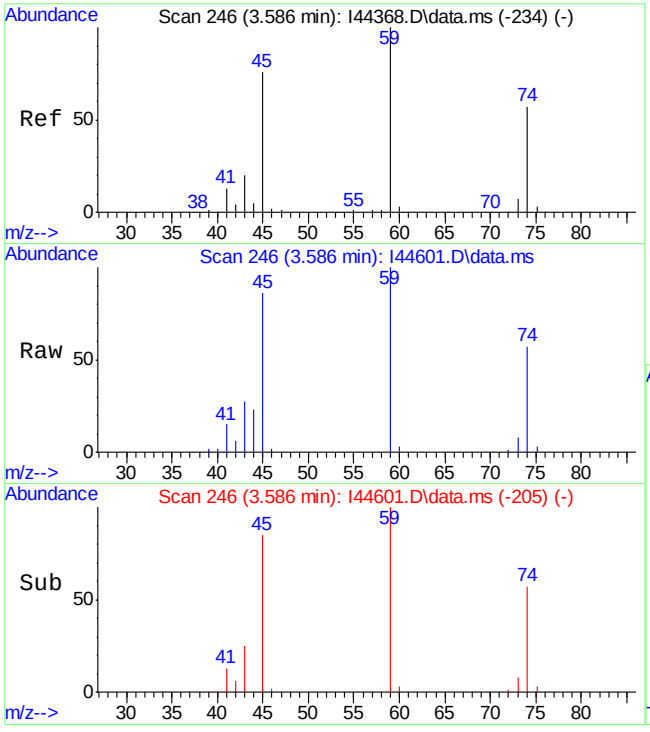
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\122916\
Data File : I44601.D
Acq On : 29 Dec 2016 12:27 pm
Operator : WILFREDO
Sample : FA39742-1 Inst : MSVOA16
Misc : MS35956,VI1227,,,,,
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Dec 29 13:11:10 2016
Quant Method : C:\msdchem\2\METHODS\I-DEC22.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Dec 23 09:02:35 2016
Response via : Initial Calibration



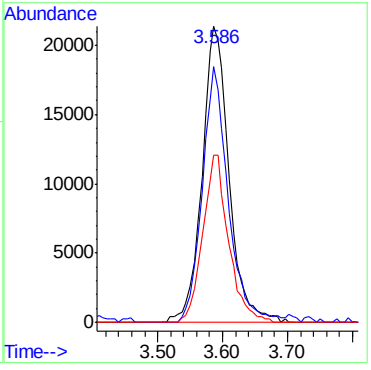
SGS ACCUTEST FA39742

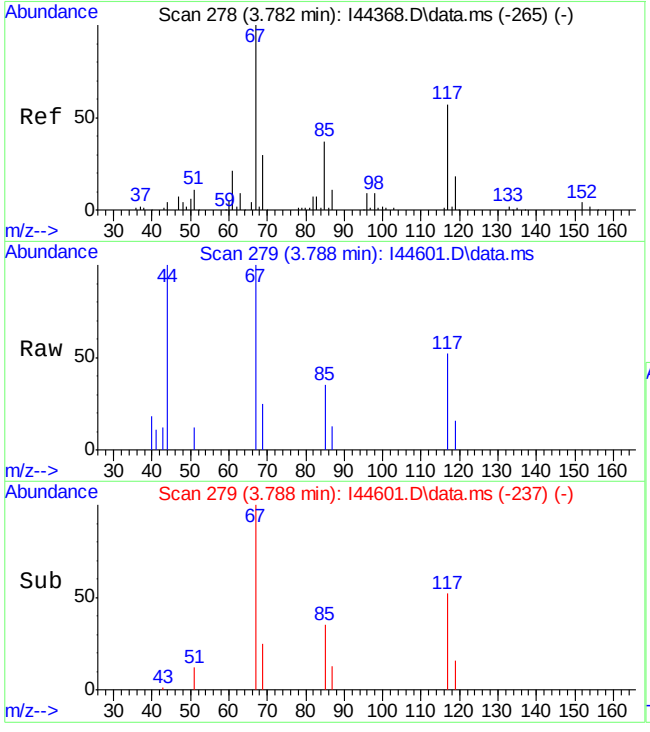


#9
Ethyl Ether
Concen: 6.01 ug/L
RT: 3.586 min Scan# 246
Delta R.T. -0.000 min
Lab File: I44601.D
Acq: 29 Dec 2016 12:27 pm

Tgt Ion: 59 Resp: 61779

Ion	Ratio	Lower	Upper
59	100		
45	86.4	56.1	96.1
74	56.5	36.6	76.6

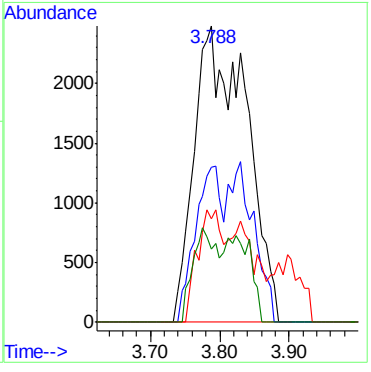


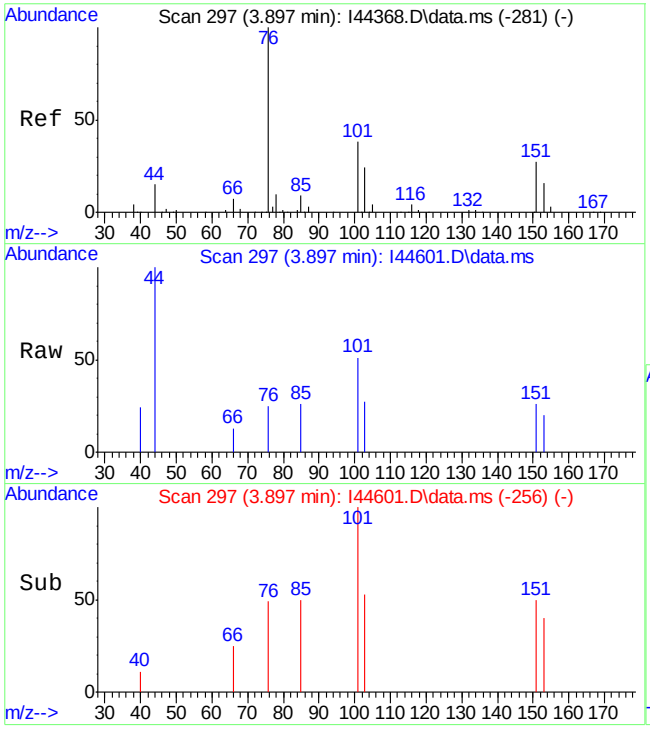


#10
1,2-Dichlorotrifluoroethane
Concen: 1.09 ug/L m
RT: 3.788 min Scan# 279
Delta R.T. 0.006 min
Lab File: I44601.D
Acq: 29 Dec 2016 12:27 pm

Tgt Ion: 67 Resp: 12970

Ion	Ratio	Lower	Upper
67	100		
117	52.2	37.7	77.7
85	34.9	16.8	56.8
69	24.7	9.7	49.7

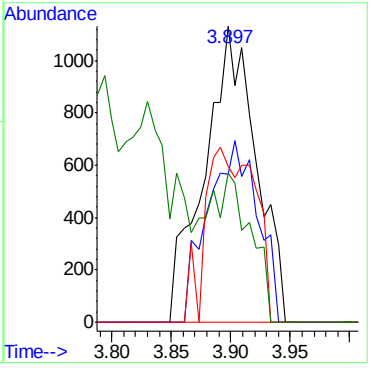


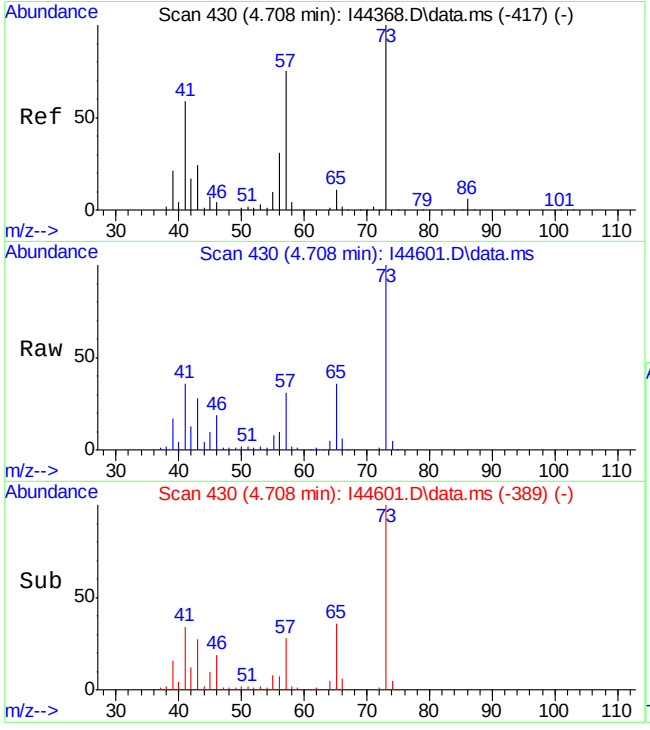


#12
Freon 113
Concen: 0.37 ug/L
RT: 3.897 min Scan# 297
Delta R.T. -0.000 min
Lab File: I44601.D
Acq: 29 Dec 2016 12:27 pm

Tgt Ion:101 Resp: 3433

Ion	Ratio	Lower	Upper
101	100		
151	50.1	48.6	88.6
103	52.8	43.2	83.2
85	50.3	26.6	66.6

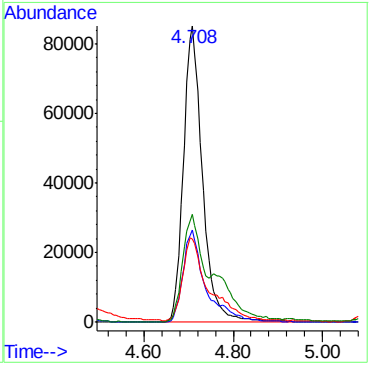


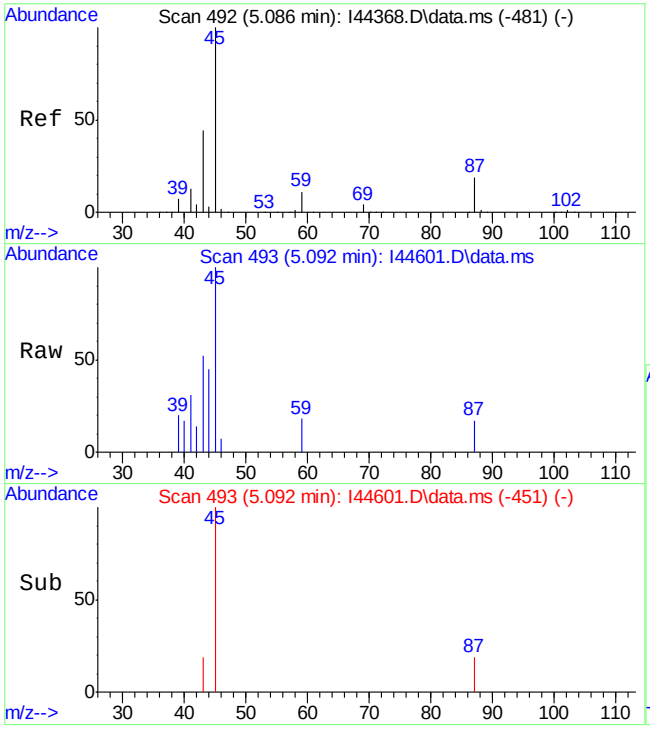


#21
Methyl Tert Butyl Ether
Concen: 10.37 ug/L
RT: 4.708 min Scan# 430
Delta R.T. -0.000 min
Lab File: I44601.D
Acq: 29 Dec 2016 12:27 pm

Tgt Ion: 73 Resp: 251955

Ion	Ratio	Lower	Upper
73	100		
57	31.0	45.0	105.0#
43	27.6	24.7	84.7
41	36.5	28.6	88.6

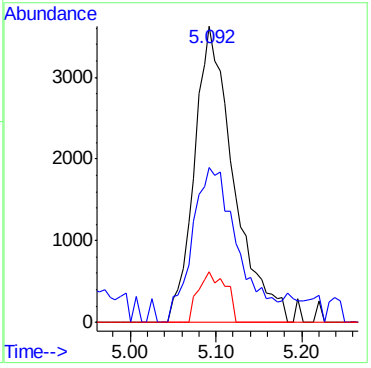


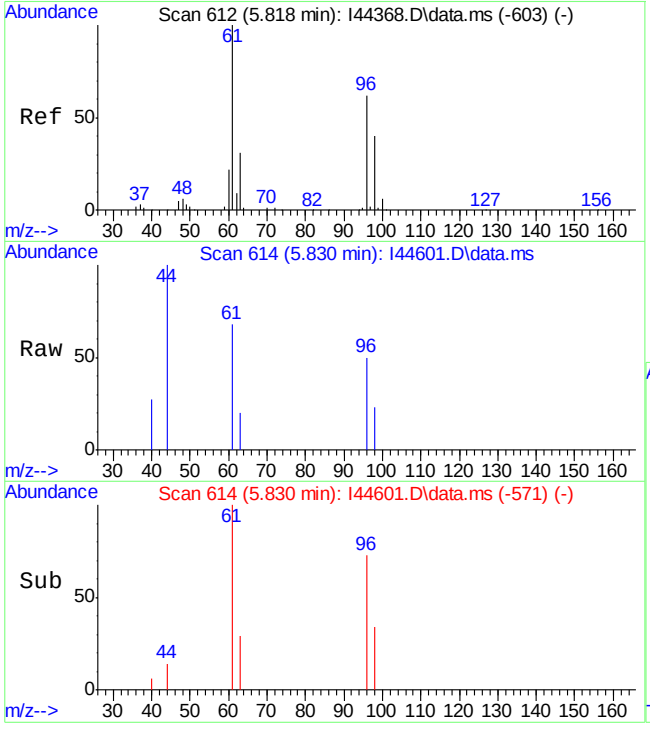


#23
Di-isopropyl ether
Concen: 0.31 ug/L
RT: 5.092 min Scan# 493
Delta R.T. 0.006 min
Lab File: I44601.D
Acq: 29 Dec 2016 12:27 pm

Tgt Ion: 45 Resp: 11595

Ion	Ratio	Lower	Upper
45	100		
43	52.1	14.4	74.4
87	17.2	0.0	48.5

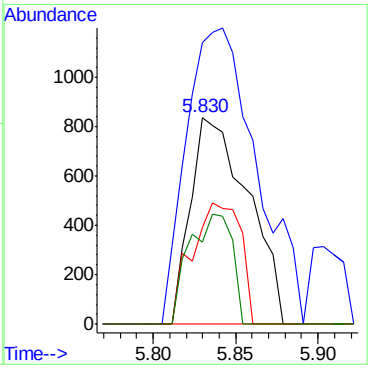




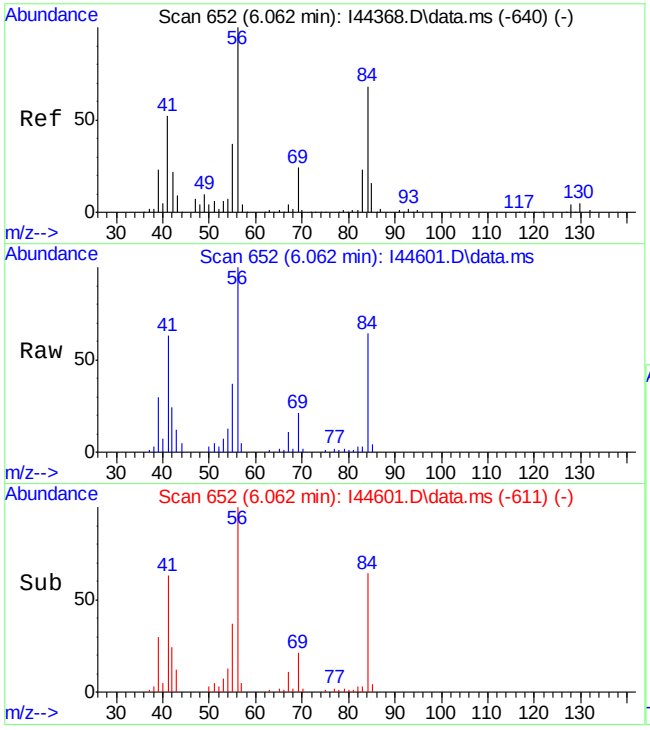
#29
cis-1,2-Dichloroethene
Concen: 0.22 ug/L
RT: 5.830 min Scan# 614
Delta R.T. 0.012 min
Lab File: I44601.D
Acq: 29 Dec 2016 12:27 pm

Tgt Ion: 96 Resp: 2031

Ion	Ratio	Lower	Upper
96	100		
61	136.2	130.3	190.3
98	46.5	34.6	94.6
63	39.5	19.8	79.8



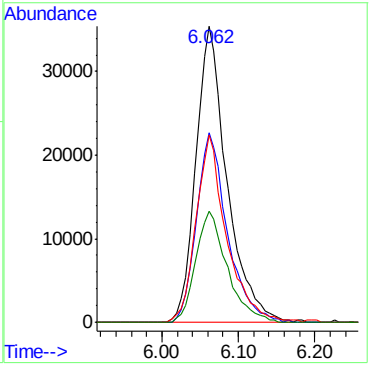
SGS ACCUTEST FA39742

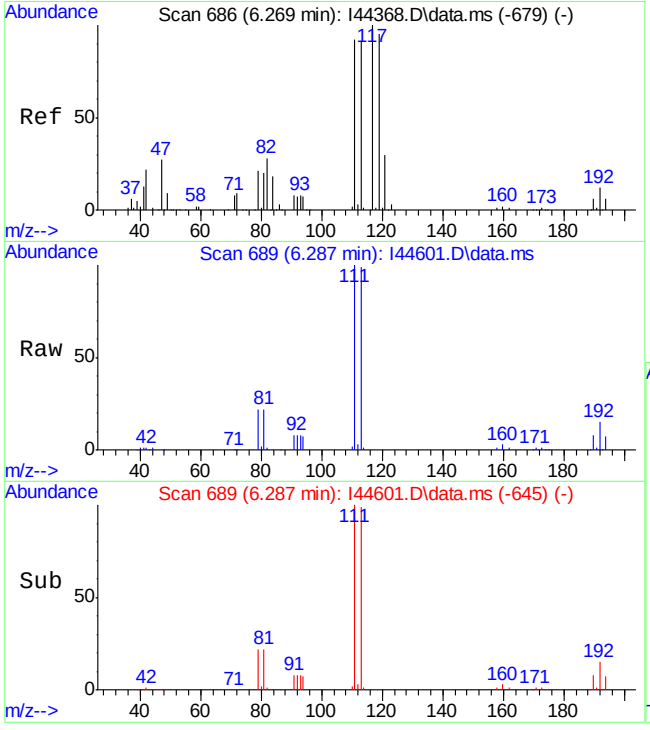


#32
Cyclohexane
Concen: 4.85 ug/L
RT: 6.062 min Scan# 652
Delta R.T. -0.000 min
Lab File: I44601.D
Acq: 29 Dec 2016 12:27 pm

Tgt Ion: 56 Resp: 99957

Ion	Ratio	Lower	Upper
56	100		
84	64.2	47.6	87.6
41	63.5	31.7	71.7
55	37.4	17.0	57.0

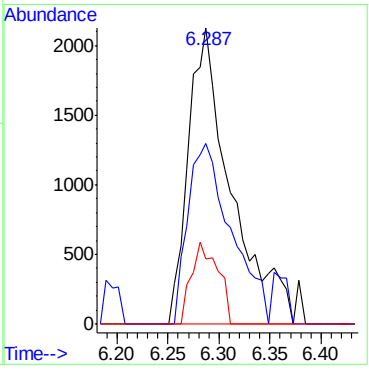


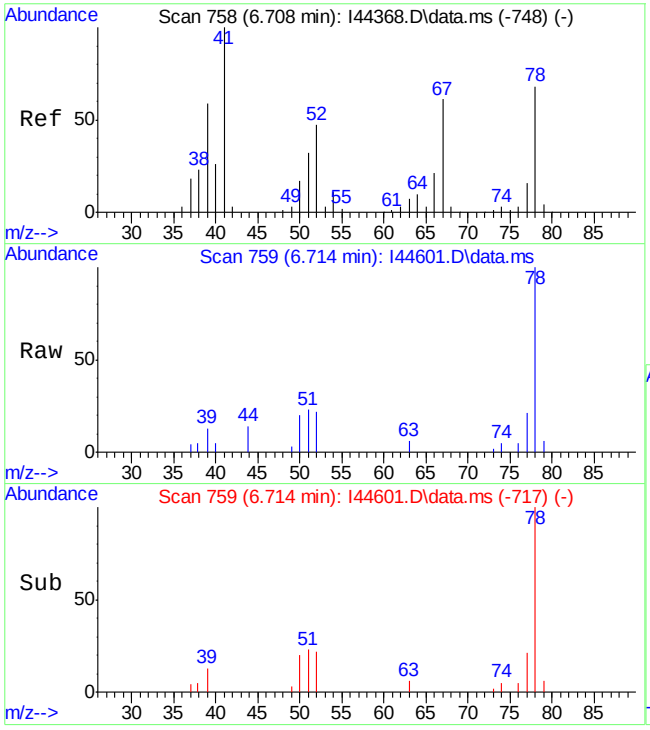


#35
Tetrahydrofuran
Concen: 2.34 ug/L
RT: 6.287 min Scan# 689
Delta R.T. 0.018 min
Lab File: I44601.D
Acq: 29 Dec 2016 12:27 pm

Tgt Ion: 42 Resp: 6178

Ion	Ratio	Lower	Upper
42	100		
41	61.1	37.8	77.8
72	22.1	19.4	59.4

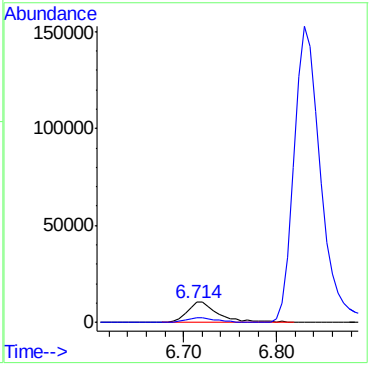


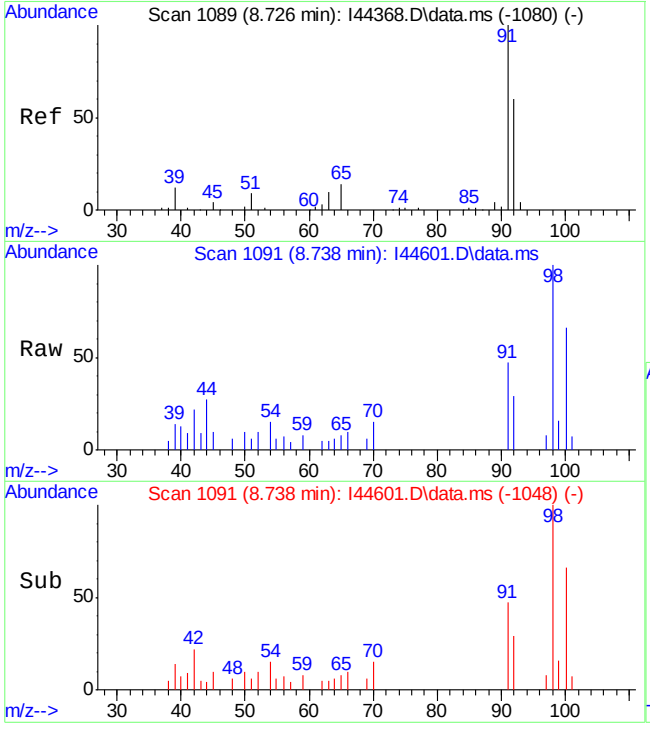


#44
Benzene
Concen: 0.71 ug/L
RT: 6.714 min Scan# 759
Delta R.T. 0.006 min
Lab File: I44601.D
Acq: 29 Dec 2016 12:27 pm

Tgt Ion: 78 Resp: 23809

Ion	Ratio	Lower	Upper
78	100		
51	23.5	16.8	76.8

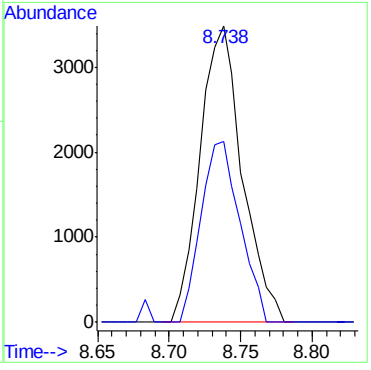




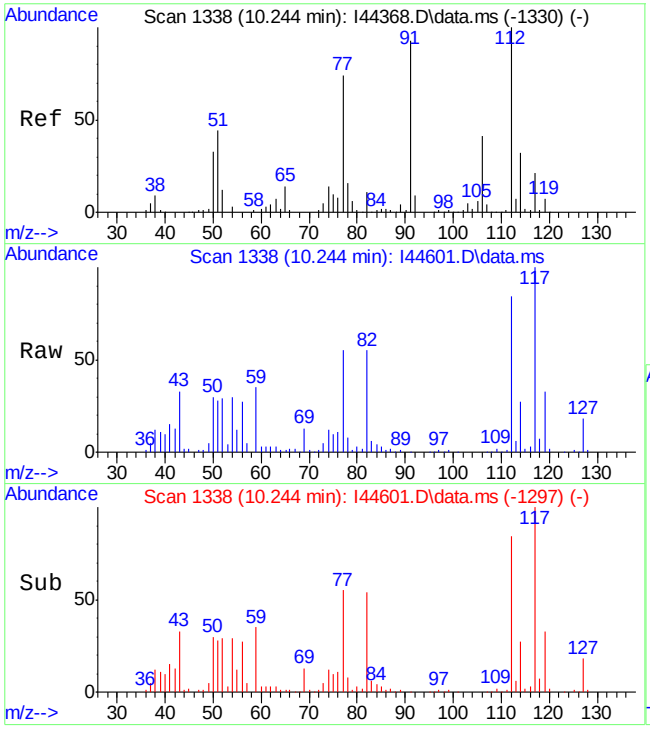
#58
Toluene
Concen: 0.21 ug/L
RT: 8.738 min Scan# 1091
Delta R.T. 0.012 min
Lab File: I44601.D
Acq: 29 Dec 2016 12:27 pm

Tgt Ion: 91 Resp: 7191

Ion	Ratio	Lower	Upper
91	100		
92	60.8	29.7	89.7



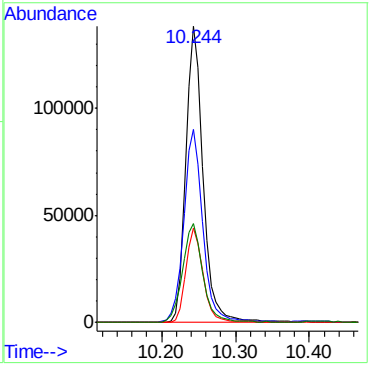
SGS ACCUTEST FA39742

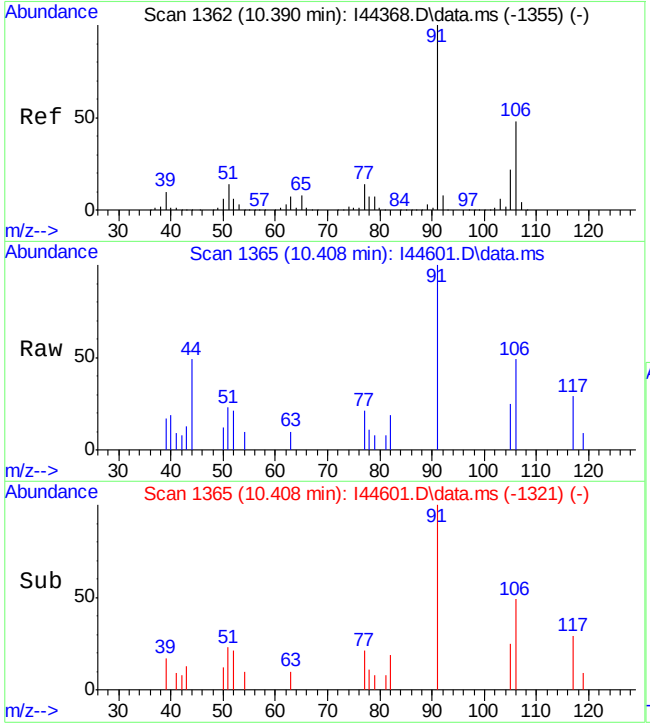


#71
Chlorobenzene
Concen: 9.50 ug/L
RT: 10.244 min Scan# 1338
Delta R.T. -0.000 min
Lab File: I44601.D
Acq: 29 Dec 2016 12:27 pm

Tgt Ion:112 Resp: 225393

Ion	Ratio	Lower	Upper
112	100		
77	65.0	44.5	104.5
114	32.0	1.8	61.8
51	33.2	14.4	74.4

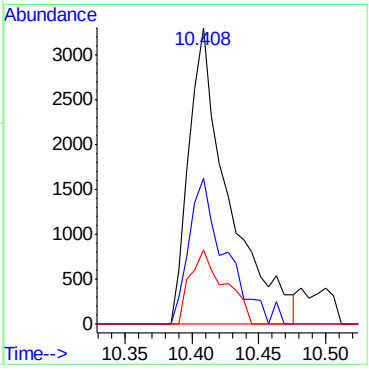


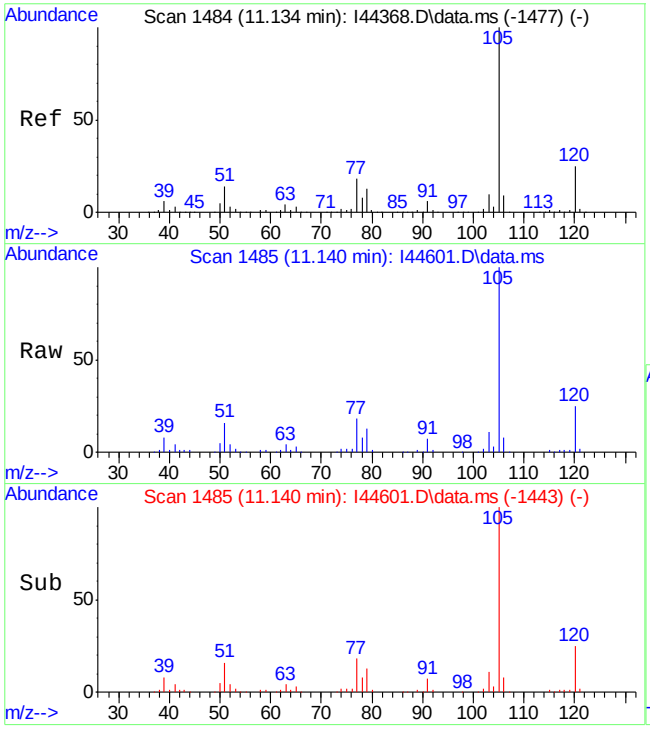


#73
m,p-Xylene
Concen: 0.24 ug/L
RT: 10.408 min Scan# 1365
Delta R.T. 0.018 min
Lab File: I44601.D
Acq: 29 Dec 2016 12:27 pm

Tgt Ion: 91 Resp: 6832

Ion	Ratio	Lower	Upper
91	100		
106	49.4	18.0	78.0
105	24.9	0.0	51.6

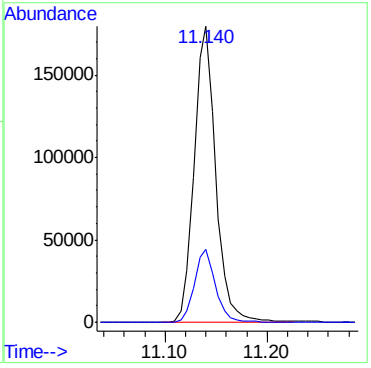


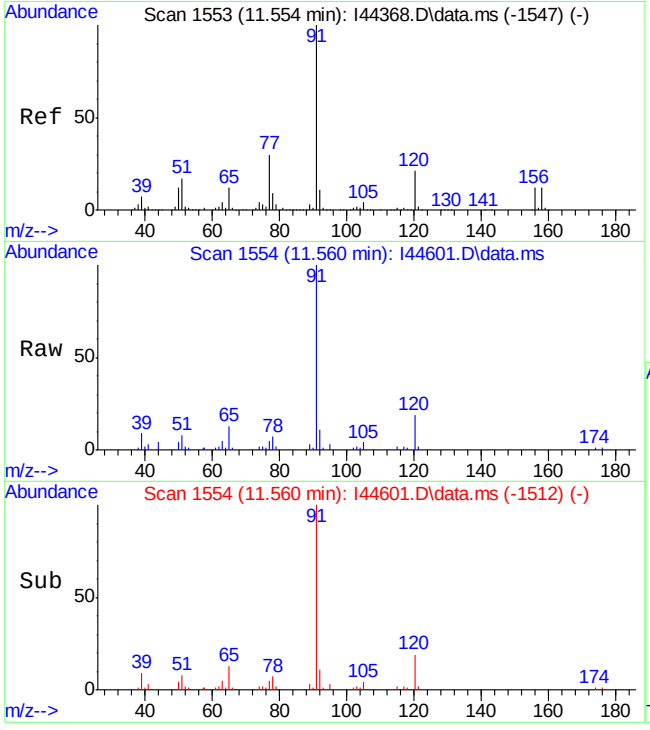


#77
Isopropylbenzene
Concen: 7.43 ug/L
RT: 11.140 min Scan# 1485
Delta R.T. 0.006 min
Lab File: I44601.D
Acq: 29 Dec 2016 12:27 pm

Tgt Ion:105 Resp: 263265

Ion	Ratio	Lower	Upper
105	100		
120	24.6	0.0	55.3

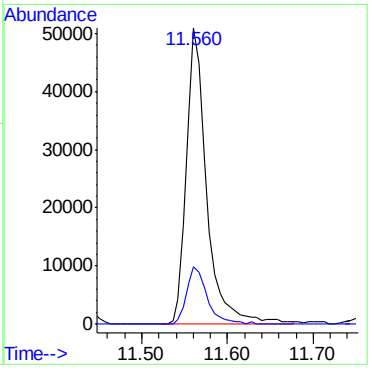




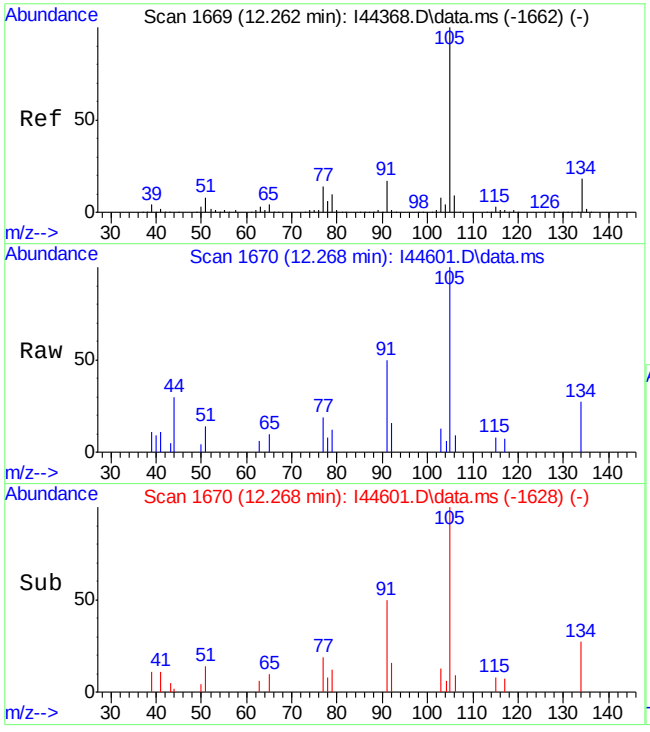
#81
n-Propylbenzene
Concen: 1.91 ug/L
RT: 11.560 min Scan# 1554
Delta R.T. 0.006 min
Lab File: I44601.D
Acq: 29 Dec 2016 12:27 pm

Tgt Ion: 91 Resp: 84008

Ion	Ratio	Lower	Upper
91	100		
120	19.3	0.0	50.6



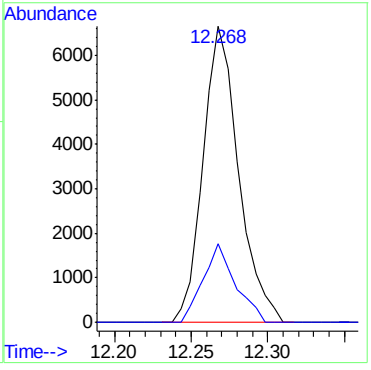
SGS ACCUTEST FA39742

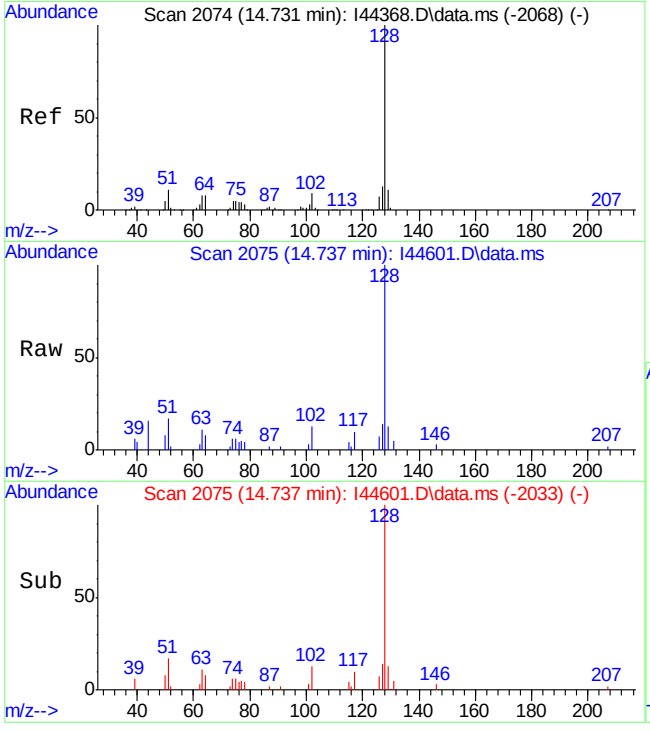


#94
sec-Butylbenzene
Concen: 0.28 ug/L
RT: 12.268 min Scan# 1670
Delta R.T. 0.006 min
Lab File: I44601.D
Acq: 29 Dec 2016 12:27 pm

Tgt Ion:105 Resp: 10735

Ion	Ratio	Lower	Upper
105	100		
134	26.6	0.0	47.6

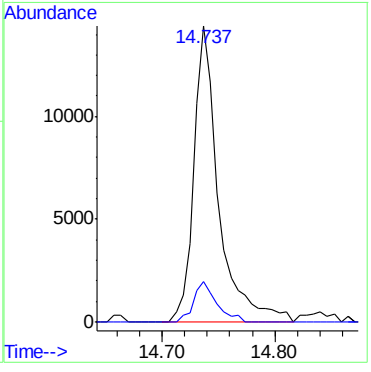


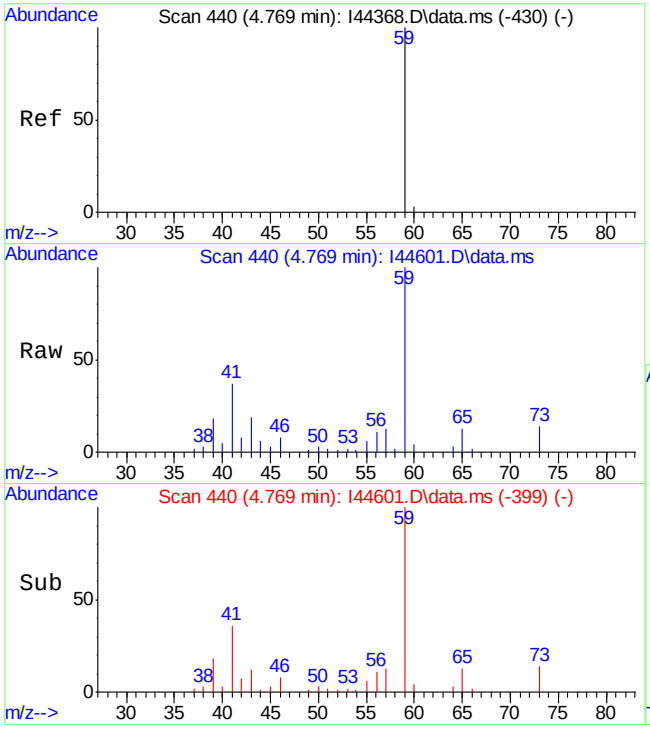


#104
Naphthalene
Concen: 0.99 ug/L
RT: 14.737 min Scan# 2075
Delta R.T. 0.006 min
Lab File: I44601.D
Acq: 29 Dec 2016 12:27 pm

Tgt Ion:128 Resp: 22258

Ion	Ratio	Lower	Upper
128	100		
127	13.7	0.0	42.5

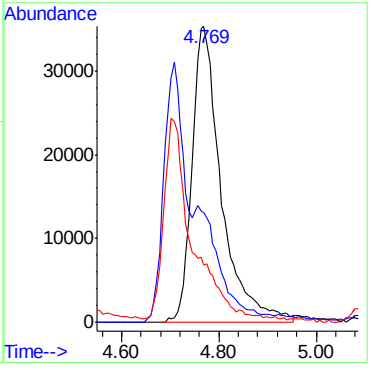


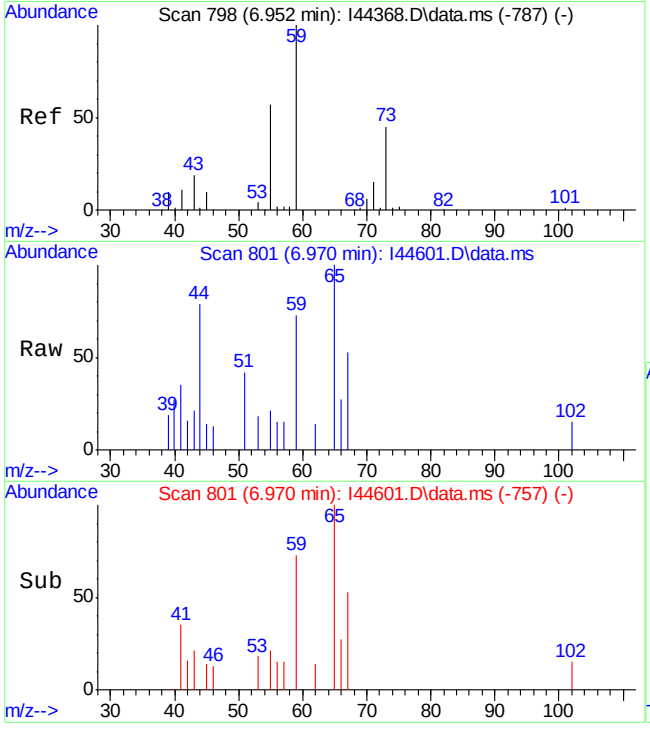


#109
Tert Butyl Alcohol
Concen: 191.79 ug/L
RT: 4.769 min Scan# 440
Delta R.T. -0.000 min
Lab File: I44601.D
Acq: 29 Dec 2016 12:27 pm

Tgt Ion: 59 Resp: 146626

Ion	Ratio	Lower	Upper
59	100		
41	35.4	0.0	20.0#
43	18.2	7.1	47.1

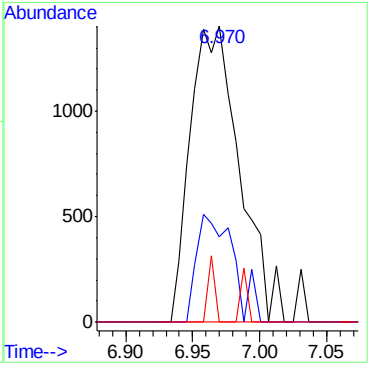


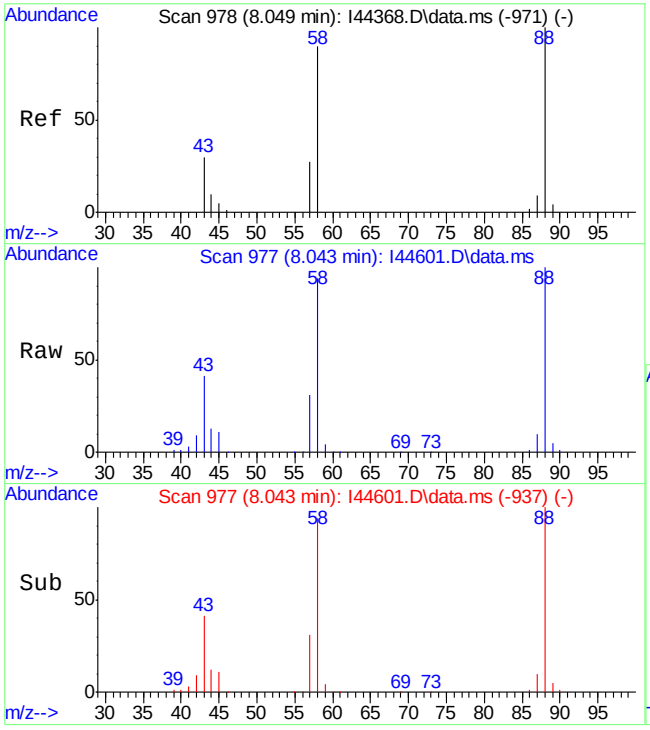


#111
Tert Amyl Alcohol
Concen: 6.03 ug/L
RT: 6.970 min Scan# 801
Delta R.T. 0.018 min
Lab File: I44601.D
Acq: 29 Dec 2016 12:27 pm

Tgt Ion: 59 Resp: 3603

Ion	Ratio	Lower	Upper
59	100		
55	28.9	28.8	88.8
73	0.0	18.1	78.1#

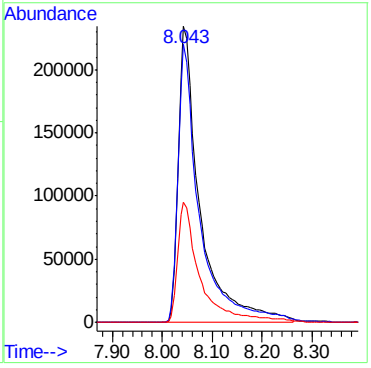




#112
1,4-Dioxane
Concen: 10664.86 ug/L
RT: 8.043 min Scan# 977
Delta R.T. -0.006 min
Lab File: I44601.D
Acq: 29 Dec 2016 12:27 pm

Tgt Ion: 88 Resp: 712633

Ion	Ratio	Lower	Upper
88	100		
58	94.1	60.1	120.1
43	40.6	3.3	63.3



SGS ACCUTEST FA39742

Manual Integration Approval Summary

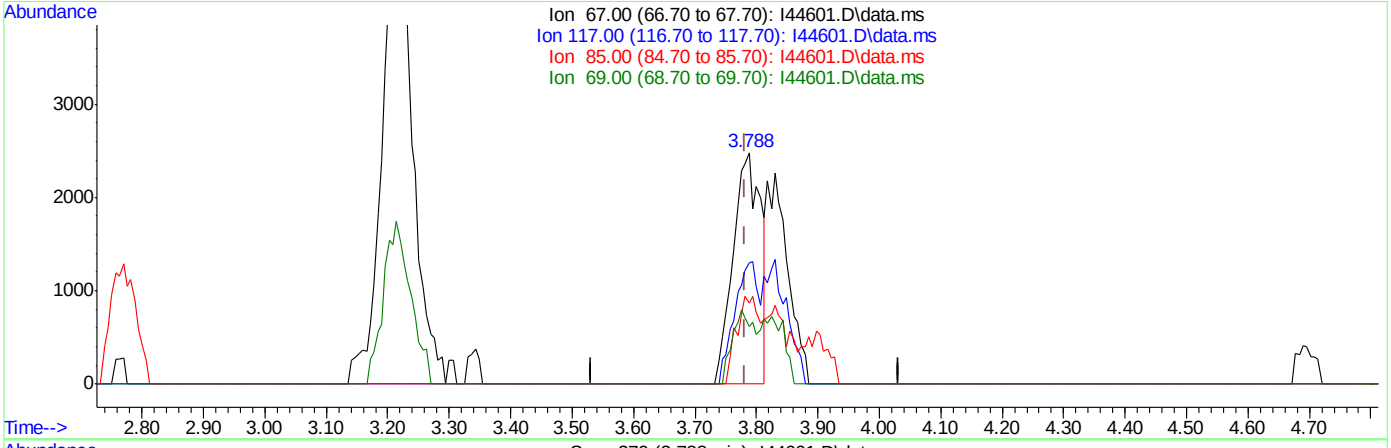
Sample Number:	FA39742-1	**Method:**	SW846 8260C
Lab FileID:	I44601.D	**Analyst approved:**	12/29/16 16:12 Wilfredo Vazquez
Injection Time:	12/29/16 12:27	**Supervisor approved:**	12/30/16 16:23 Juan Garcia

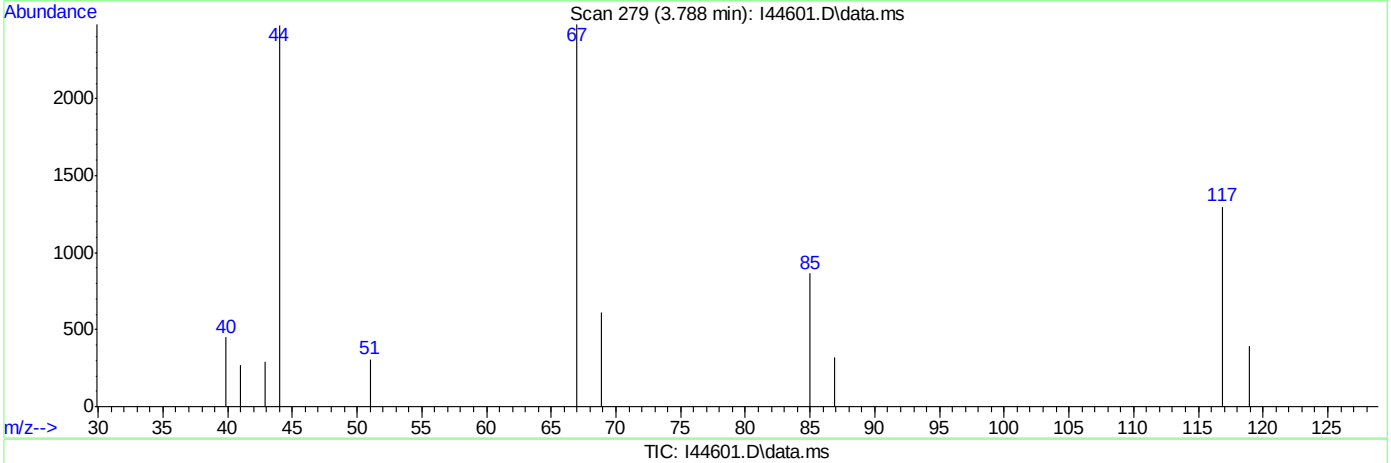
Parameter	CAS	Sig#	R.T. (min.)	Reason
1,2-Dichlorotrifluoroethane	354-23-4		3.79	Split peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\DATA\122916\
Data File : I44601.D
Acq On : 29 Dec 2016 12:27 pm
Operator : WILFREDO
Sample : FA39742-1 Inst : MSVOA16
Misc : MS35956,VI1227,,,,,
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Dec 29 13:05:24 2016
Quant Method : C:\msdchem\2\METHODS\I-DEC22.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Dec 23 09:02:35 2016
Response via : Initial Calibration





TIC: I44601.D\data.ms

(10) 1,2-Dichlorotrifluoroethane

3.788min (+0.006) 0.64ug/L

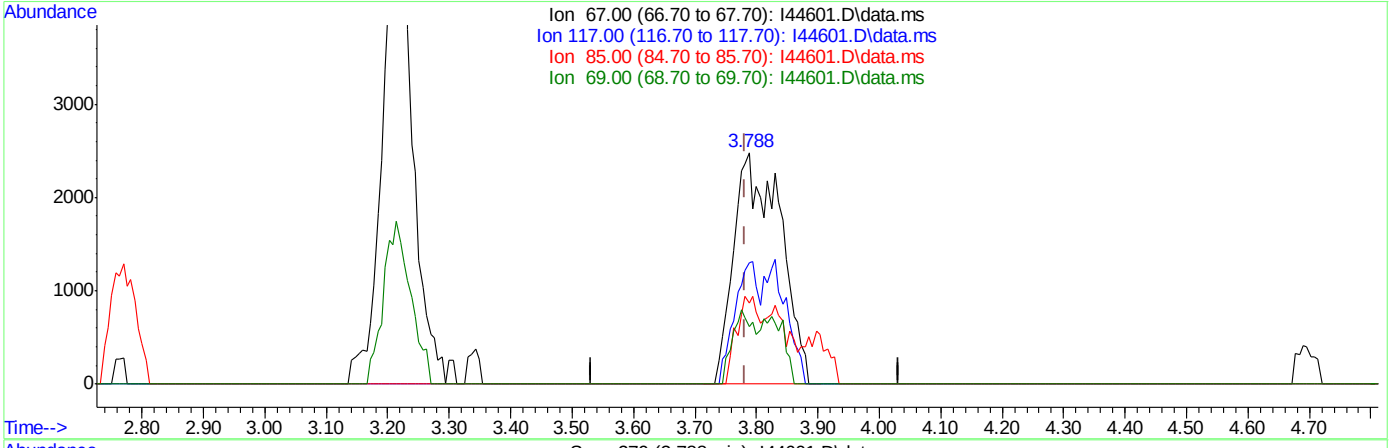
response 7639

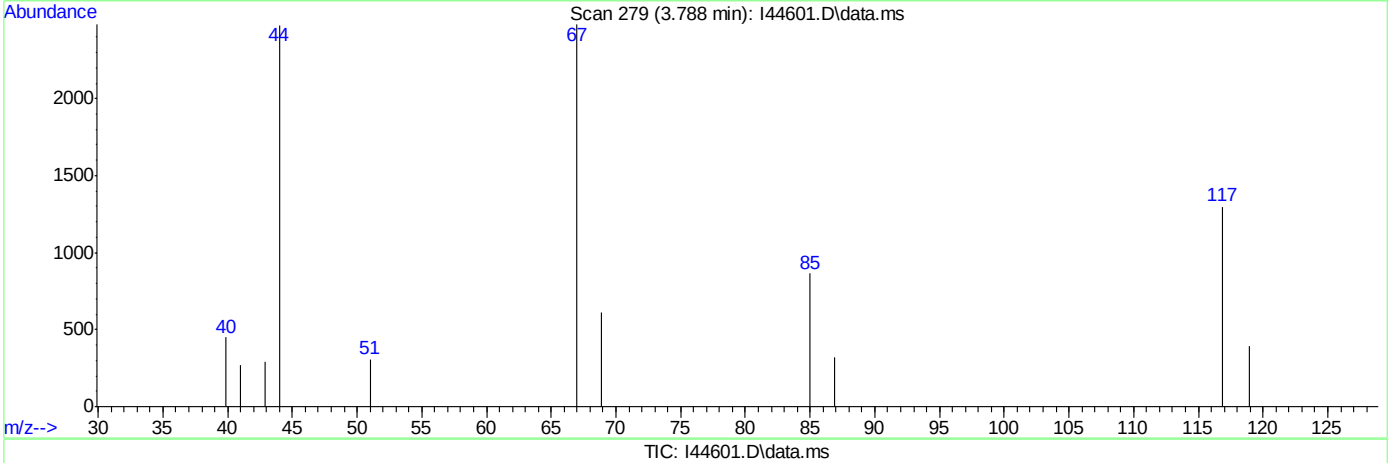
Ion	Exp%	Act%
67.00	100	100
117.00	57.70	52.22
85.00	36.80	34.85
69.00	29.70	24.74

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\DATA\122916\
Data File : I44601.D
Acq On : 29 Dec 2016 12:27 pm
Operator : WILFREDO
Sample : FA39742-1 Inst : MSVOA16
Misc : MS35956,VI1227,,,,,
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Dec 29 13:05:24 2016
Quant Method : C:\msdchem\2\METHODS\I-DEC22.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Dec 23 09:02:35 2016
Response via : Initial Calibration





TIC: I44601.D\data.ms

(10) 1,2-Dichlorotrifluoroethane

3.788min (+0.006) 1.09ug/L m

response 12970

Ion	Exp%	Act%
67.00	100	100
117.00	57.70	52.22
85.00	36.80	34.85
69.00	29.70	24.74

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\122816\
Data File : I44549.D
Acq On : 28 Dec 2016 3:24 pm
Operator : WILFREDO
Sample : FA39742-2 MA Inst : MSVOA16
Misc : MS35953,VI1223,,,,,
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Dec 29 08:22:59 2016
Quant Method : C:\msdchem\2\METHODS\I-DEC22.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Dec 23 09:02:35 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.116	96	1962395	50.00	ug/L	0.00
56) Chlorobenzene-d5	10.225	117	1304389	50.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	12.591	152	616442	50.00	ug/L	0.00
106) Tert Butyl Alcohol-d10	4.690	65	144246	250.00	ug/L	0.00
System Monitoring Compounds						
36) Dibromofluoromethane	6.275	113	487882	49.25	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 98.50%			
46) 1,2-Dichloroethane-d4	6.830	65	710745	50.80	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 101.60%			
57) Toluene-d8	8.677	98	1774077	49.74	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 99.48%			
79) 4-Bromofluorobenzene	11.439	174	434107	48.35	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 96.70%			
Target Compounds						Qvalue
9) Ethyl Ether	3.587	59	43283	3.76	ug/L	95
10) 1,2-Dichlorotrifluoroe...	3.788	67	47712	3.59	ug/L	96
12) Freon 113	3.891	101	37714	3.65	ug/L	97
21) Methyl Tert Butyl Ether	4.708	73	278762	10.25	ug/L #	58
23) Di-isopropyl ether	5.098	45	14407	0.34	ug/L	99
29) cis-1,2-Dichloroethene	5.848	96	2768	0.26	ug/L #	81
32) Cyclohexane	6.062	56	69657	3.02	ug/L	97
35) Tetrahydrofuran	6.287	42	5826	1.97	ug/L	87
44) Benzene	6.720	78	22946	0.61	ug/L	63
58) Toluene	8.732	91	7392	0.20	ug/L	100
71) Chlorobenzene	10.244	112	129299	4.97	ug/L	89
73) m,p-Xylene	10.408	91	7772	0.24	ug/L	96
77) Isopropylbenzene	11.134	105	350876	9.04	ug/L	97
81) n-Propylbenzene	11.561	91	125829	2.53	ug/L	99
94) sec-Butylbenzene	12.268	105	12735	0.30	ug/L	86
102) Hexachlorobutadiene	14.414	225	2297	0.50	ug/L	95
104) Naphthalene	14.743	128	5786	0.23	ug/L	96
105) 1,2,3-Trichlorobenzene	14.895	180	2736	0.30	ug/L	96
109) Tert Butyl Alcohol	4.769	59	124053	171.94	ug/L #	85
112) 1,4-Dioxane	8.049	88	492629	7812.26	ug/L	98

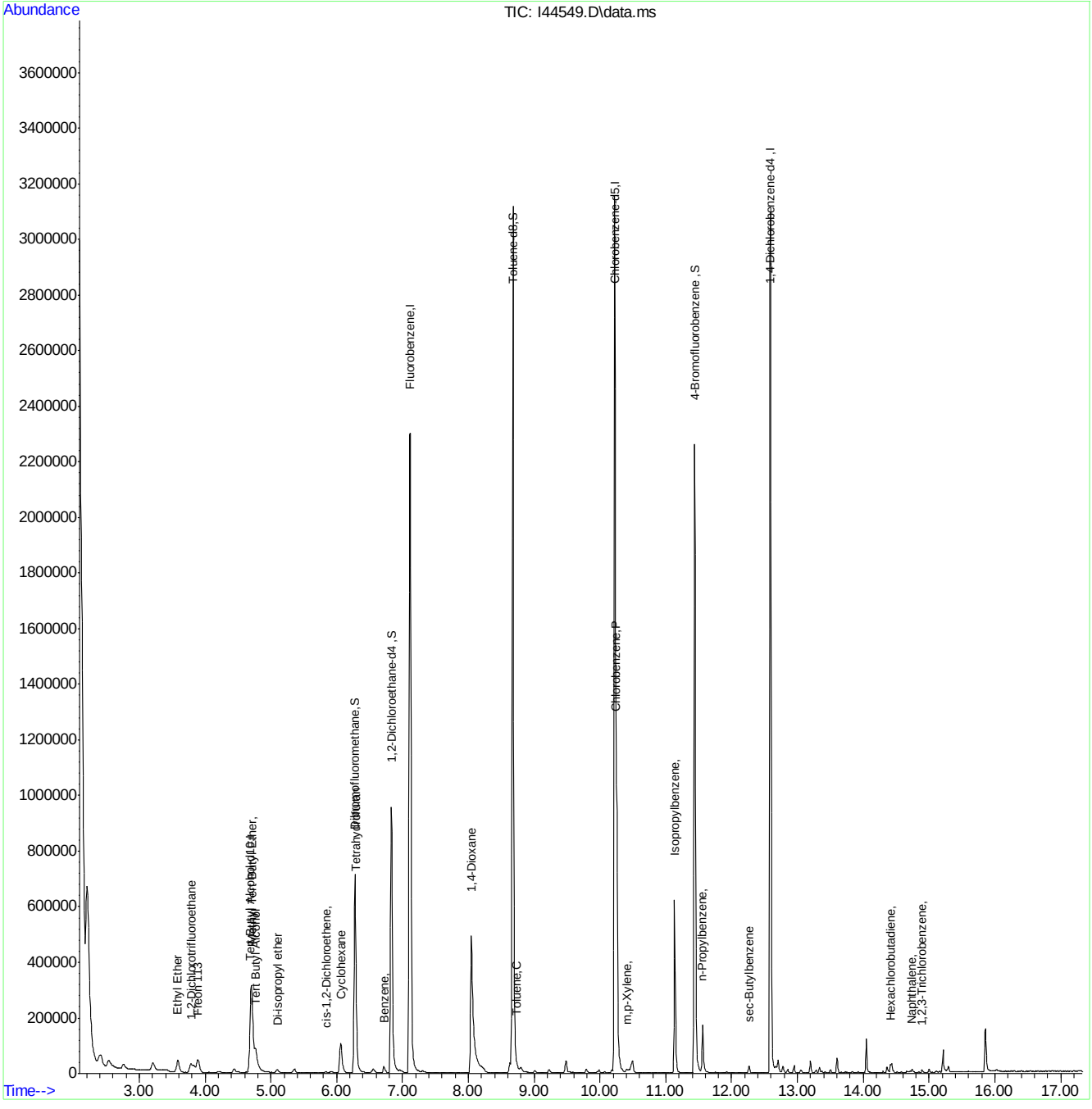
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST FA39742

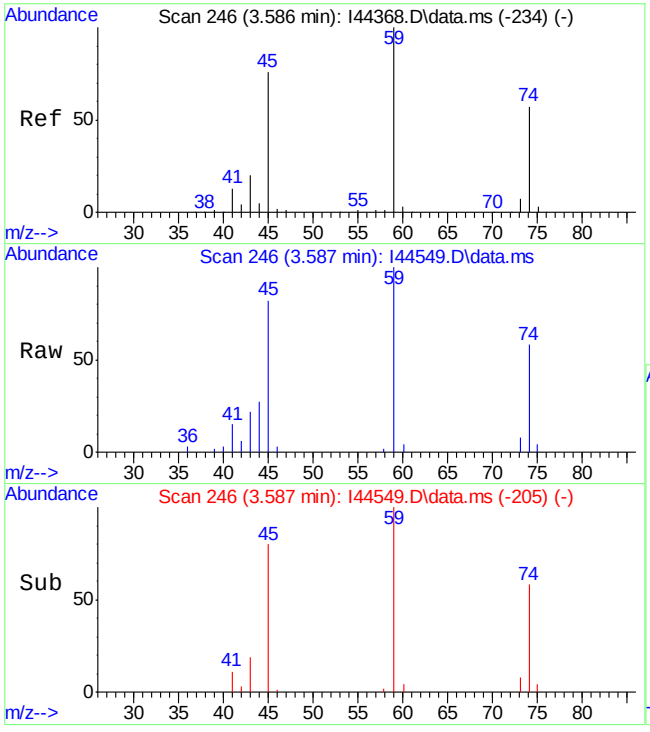
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\122816\
Data File : I44549.D
Acq On : 28 Dec 2016 3:24 pm
Operator : WILFREDO
Sample : FA39742-2 MA Inst : MSVOA16
Misc : MS35953,VI1223,,,,,
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Dec 29 08:22:59 2016
Quant Method : C:\msdchem\2\METHODS\I-DEC22.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Dec 23 09:02:35 2016
Response via : Initial Calibration



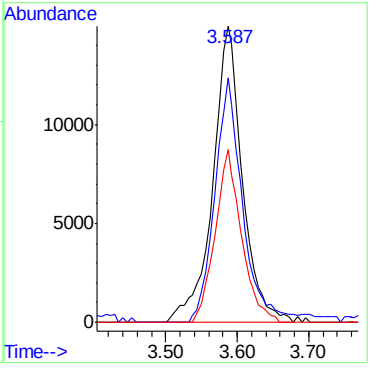
SGS ACCUTEST FA39742

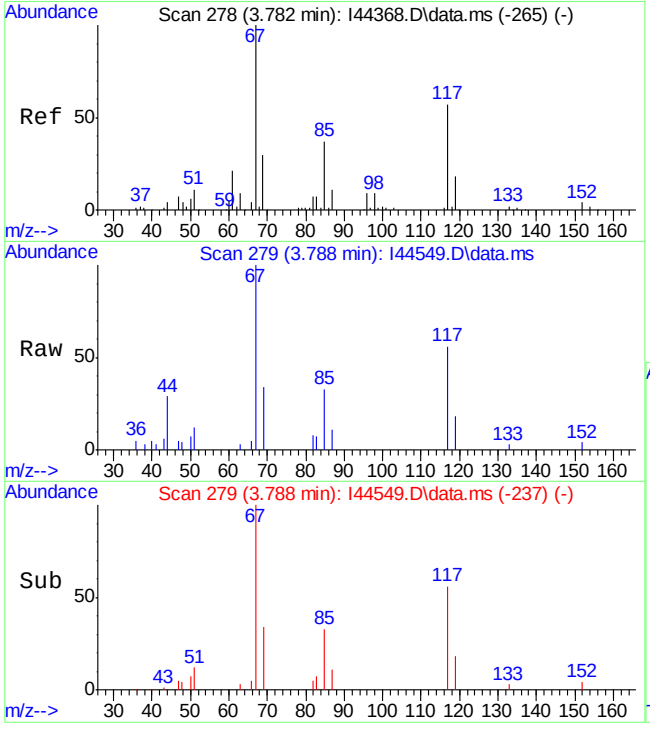


#9
Ethyl Ether
Concen: 3.76 ug/L
RT: 3.587 min Scan# 246
Delta R.T. 0.000 min
Lab File: I44549.D
Acq: 28 Dec 2016 3:24 pm

Tgt Ion: 59 Resp: 43283

Ion	Ratio	Lower	Upper
59	100		
45	82.4	56.1	96.1
74	58.3	36.6	76.6

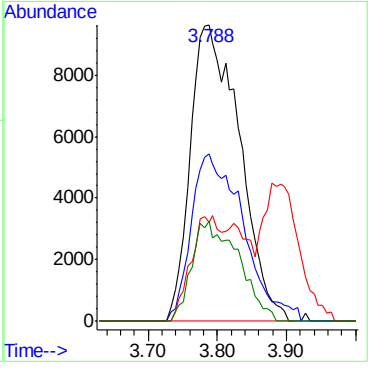


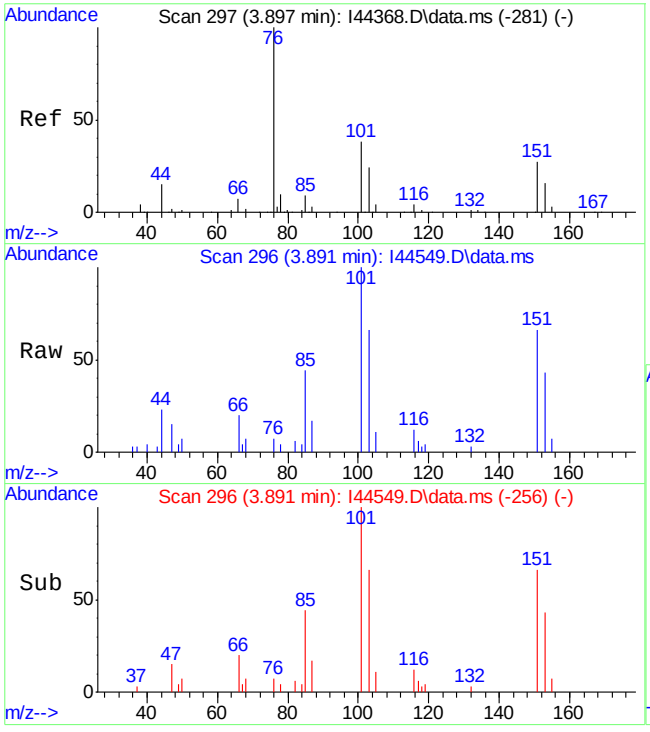


#10
1,2-Dichlorotrifluoroethane
Concen: 3.59 ug/L
RT: 3.788 min Scan# 279
Delta R.T. 0.006 min
Lab File: I44549.D
Acq: 28 Dec 2016 3:24 pm

Tgt Ion: 67 Resp: 47712

Ion	Ratio	Lower	Upper
67	100		
117	56.3	37.7	77.7
85	33.4	16.8	56.8
69	33.7	9.7	49.7

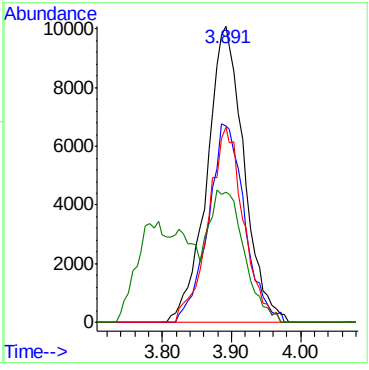


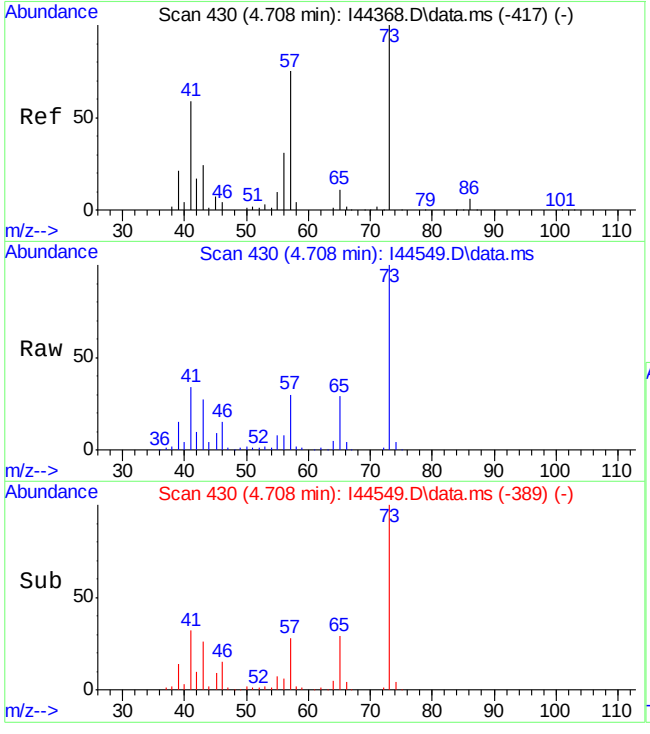


#12
Freon 113
Concen: 3.65 ug/L
RT: 3.891 min Scan# 296
Delta R.T. -0.006 min
Lab File: I44549.D
Acq: 28 Dec 2016 3:24 pm

Tgt Ion:101 Resp: 37714

Ion	Ratio	Lower	Upper
101	100		
151	66.5	48.6	88.6
103	66.1	43.2	83.2
85	44.0	26.6	66.6

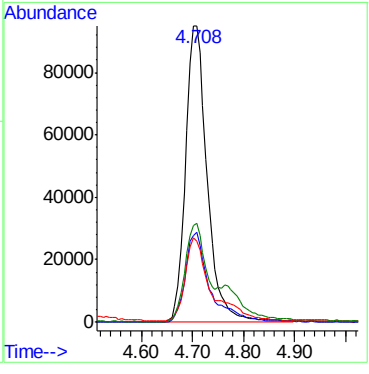


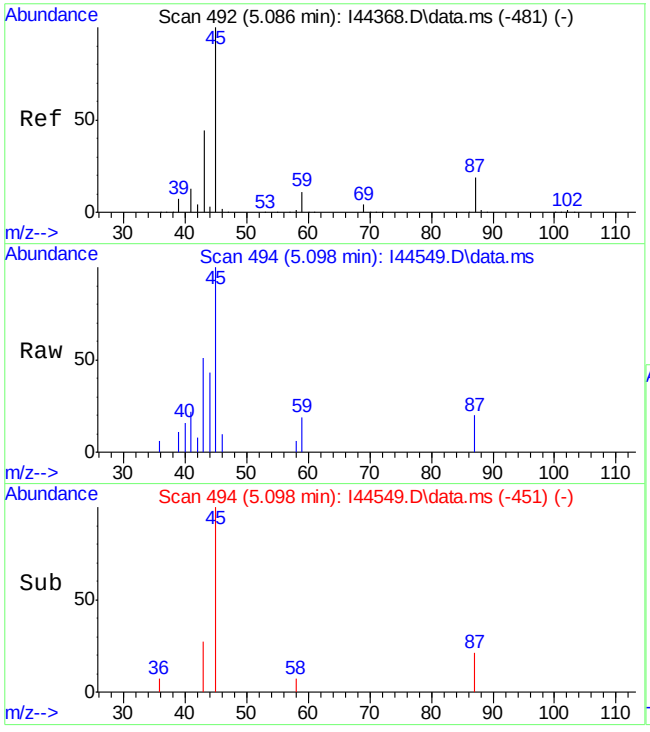


#21
Methyl Tert Butyl Ether
Concen: 10.25 ug/L
RT: 4.708 min Scan# 430
Delta R.T. 0.000 min
Lab File: I44549.D
Acq: 28 Dec 2016 3:24 pm

Tgt Ion: 73 Resp: 278762

Ion	Ratio	Lower	Upper
73	100		
57	30.4	45.0	105.0#
43	26.9	24.7	84.7
41	33.5	28.6	88.6

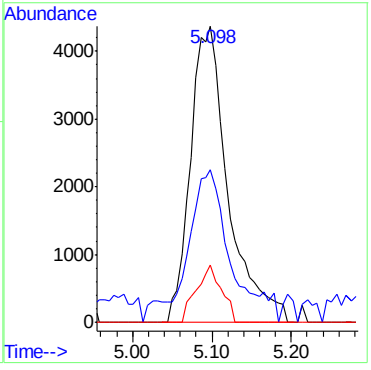


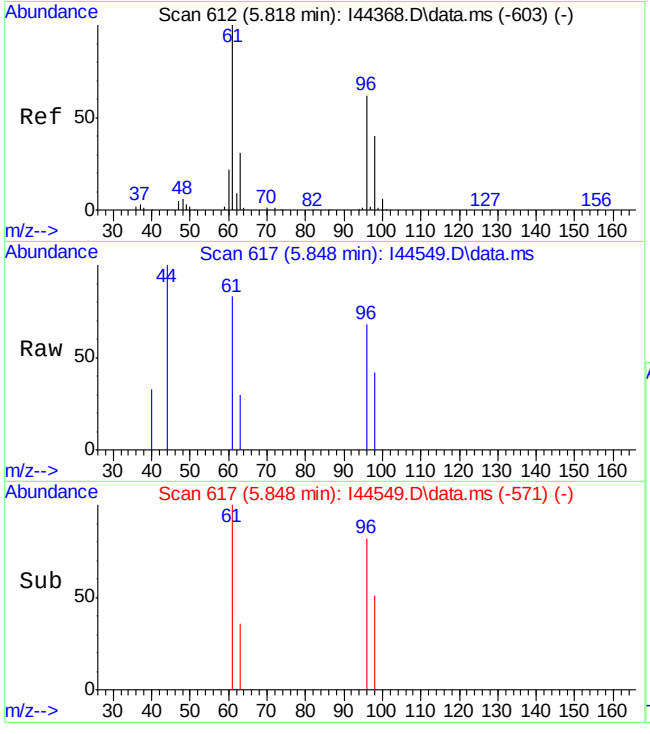


#23
Di-isopropyl ether
Concen: 0.34 ug/L
RT: 5.098 min Scan# 494
Delta R.T. 0.012 min
Lab File: I44549.D
Acq: 28 Dec 2016 3:24 pm

Tgt Ion: 45 Resp: 14407

Ion	Ratio	Lower	Upper
45	100		
43	44.4	14.4	74.4
87	19.5	0.0	48.5

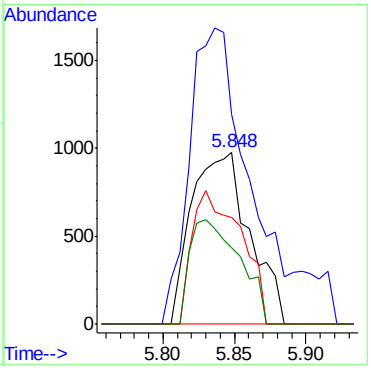


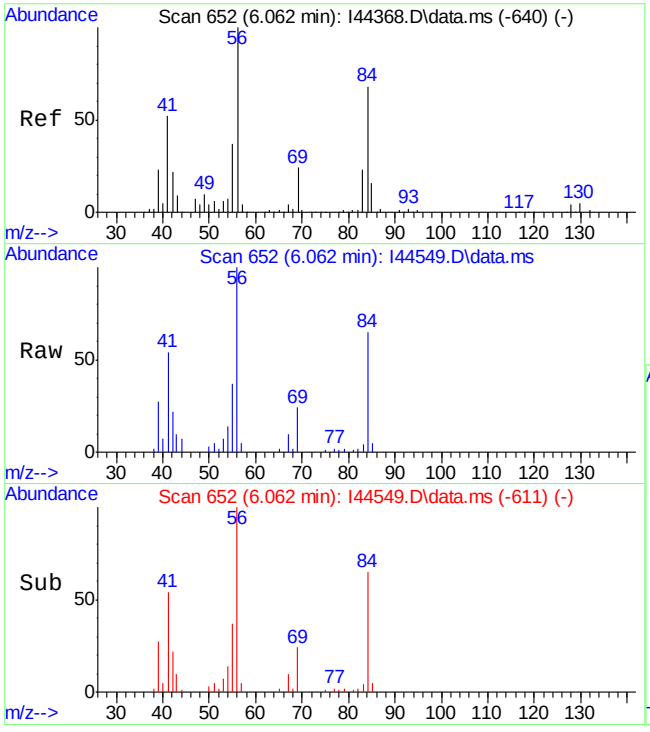


#29
cis-1,2-Dichloroethene
Concen: 0.26 ug/L
RT: 5.848 min Scan# 617
Delta R.T. 0.030 min
Lab File: I44549.D
Acq: 28 Dec 2016 3:24 pm

Tgt Ion: 96 Resp: 2768

Ion	Ratio	Lower	Upper
96	100		
61	122.0	130.3	190.3#
98	61.8	34.6	94.6
63	44.3	19.8	79.8

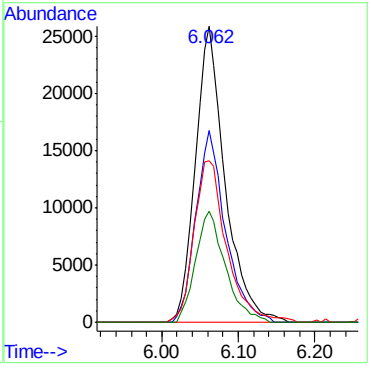


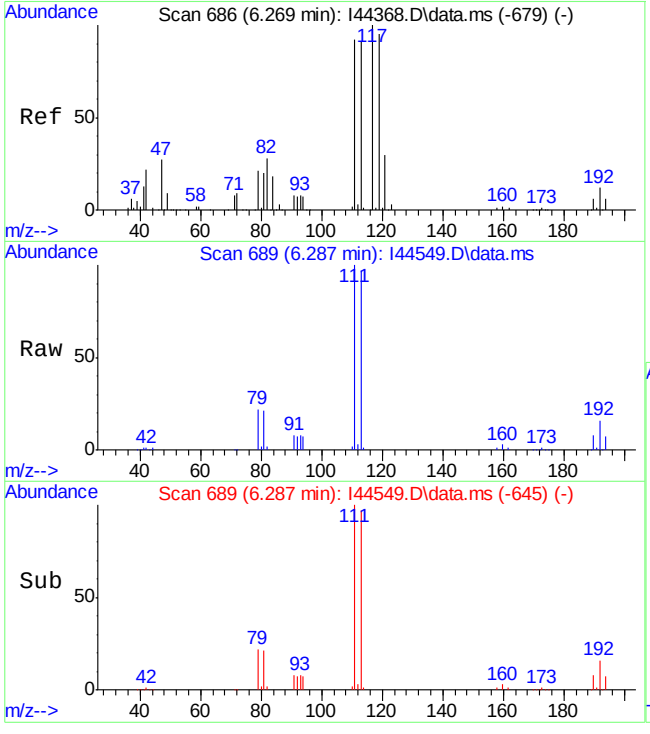


#32
Cyclohexane
Concen: 3.02 ug/L
RT: 6.062 min Scan# 652
Delta R.T. -0.000 min
Lab File: I44549.D
Acq: 28 Dec 2016 3:24 pm

Tgt Ion: 56 Resp: 69657

Ion	Ratio	Lower	Upper
56	100		
84	64.7	47.6	87.6
41	54.4	31.7	71.7
55	37.4	17.0	57.0

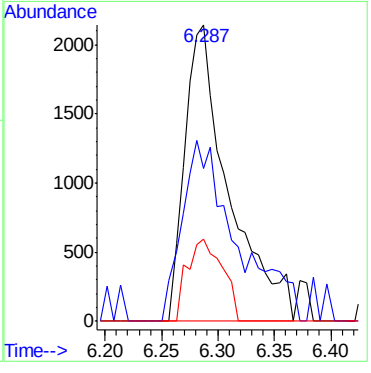


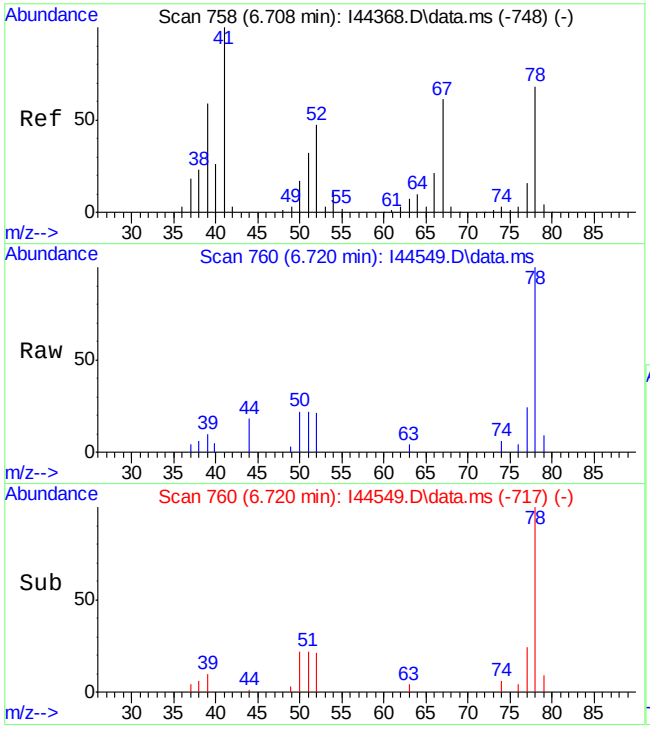


#35
Tetrahydrofuran
Concen: 1.97 ug/L
RT: 6.287 min Scan# 689
Delta R.T. 0.018 min
Lab File: I44549.D
Acq: 28 Dec 2016 3:24 pm

Tgt Ion: 42 Resp: 5826

Ion	Ratio	Lower	Upper
42	100		
41	51.5	37.8	77.8
72	27.8	19.4	59.4

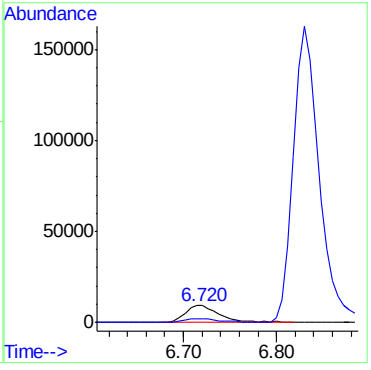


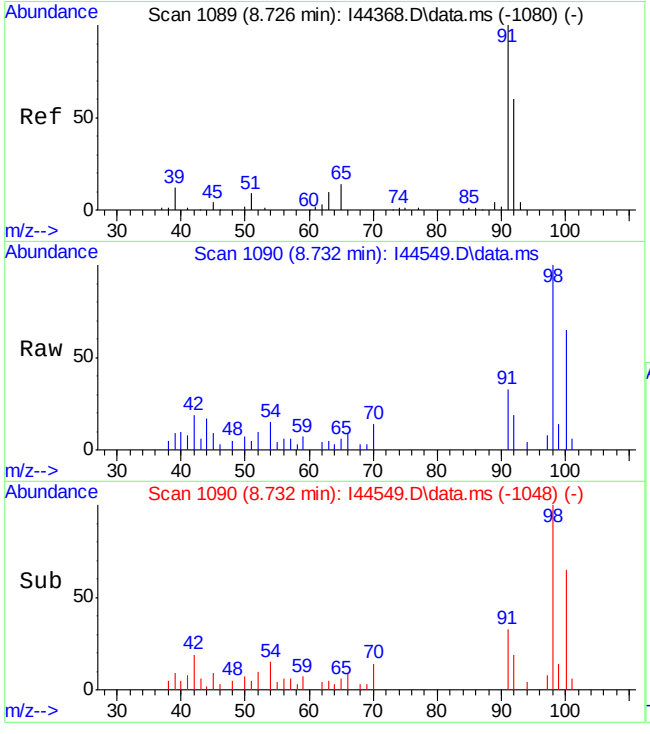


#44
Benzene
Concen: 0.61 ug/L
RT: 6.720 min Scan# 760
Delta R.T. 0.012 min
Lab File: I44549.D
Acq: 28 Dec 2016 3:24 pm

Tgt Ion: 78 Resp: 22946

Ion	Ratio	Lower	Upper
78	100		
51	22.4	16.8	76.8

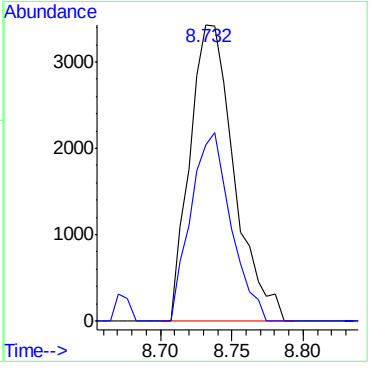


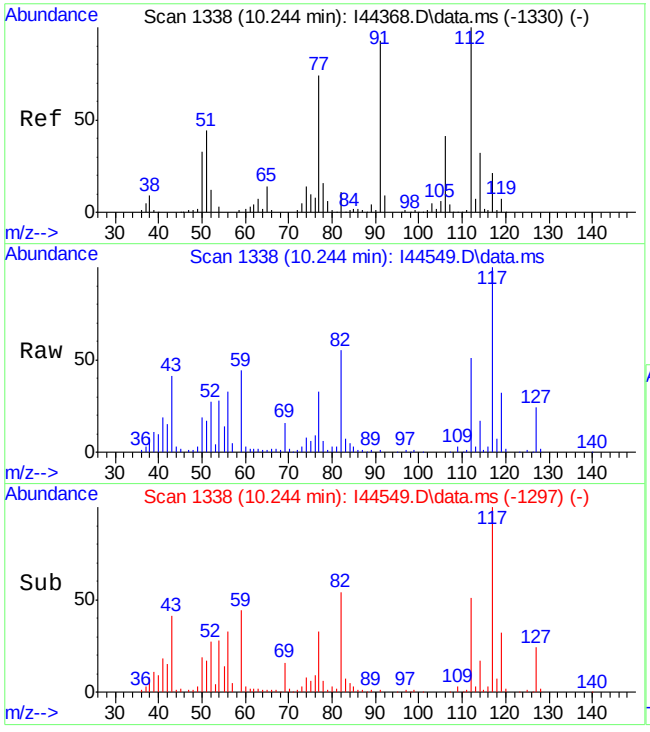


#58
Toluene
Concen: 0.20 ug/L
RT: 8.732 min Scan# 1090
Delta R.T. 0.006 min
Lab File: I44549.D
Acq: 28 Dec 2016 3:24 pm

Tgt Ion: 91 Resp: 7392

Ion	Ratio	Lower	Upper
91	100		
92	59.4	29.7	89.7

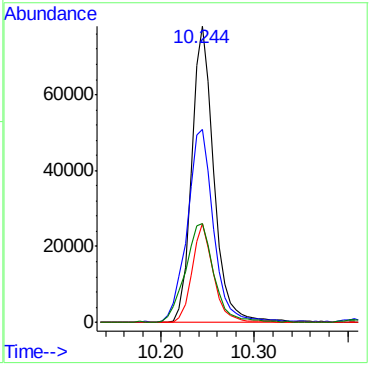


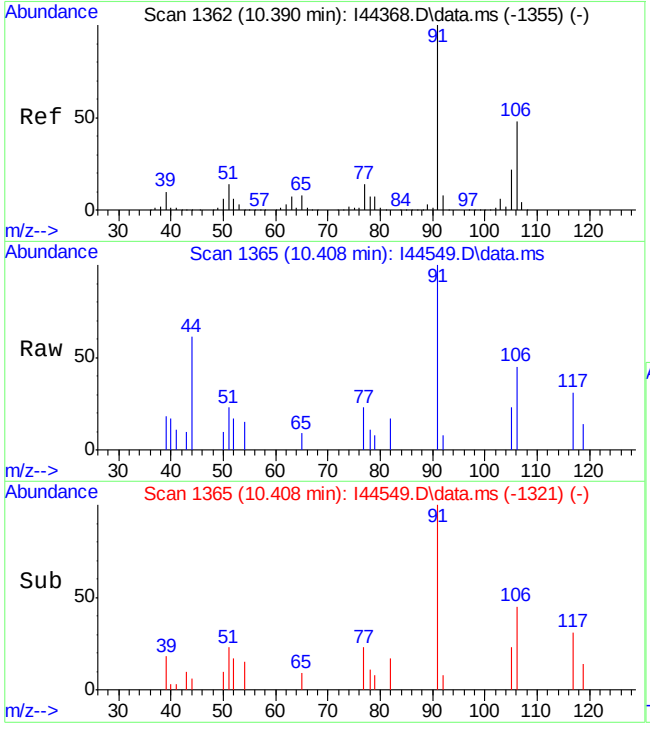


#71
Chlorobenzene
Concen: 4.97 ug/L
RT: 10.244 min Scan# 1338
Delta R.T. 0.000 min
Lab File: I44549.D
Acq: 28 Dec 2016 3:24 pm

Tgt Ion:112 Resp: 129299

Ion	Ratio	Lower	Upper
112	100		
77	65.0	44.5	104.5
114	33.5	1.8	61.8
51	33.5	14.4	74.4

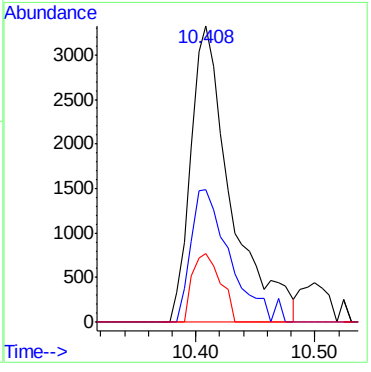




#73
m,p-Xylene
Concen: 0.24 ug/L
RT: 10.408 min Scan# 1365
Delta R.T. 0.018 min
Lab File: I44549.D
Acq: 28 Dec 2016 3:24 pm

Tgt Ion: 91 Resp: 7772

Ion	Ratio	Lower	Upper
91	100		
106	44.7	18.0	78.0
105	23.3	0.0	51.6



7.1.2

7

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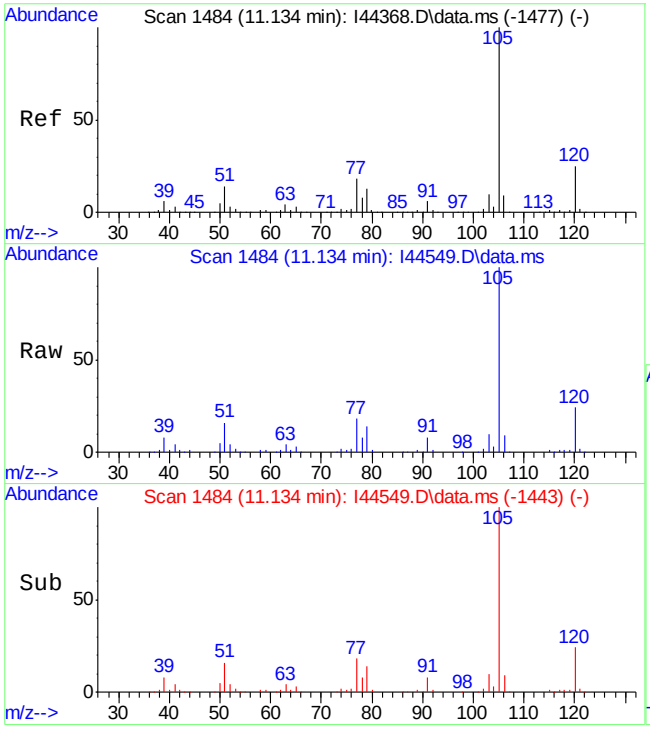
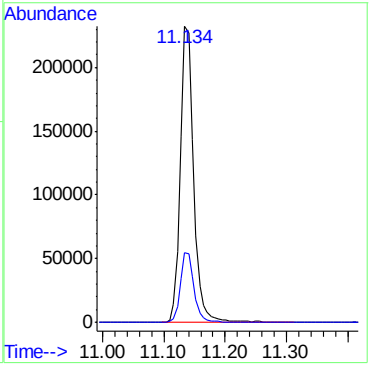
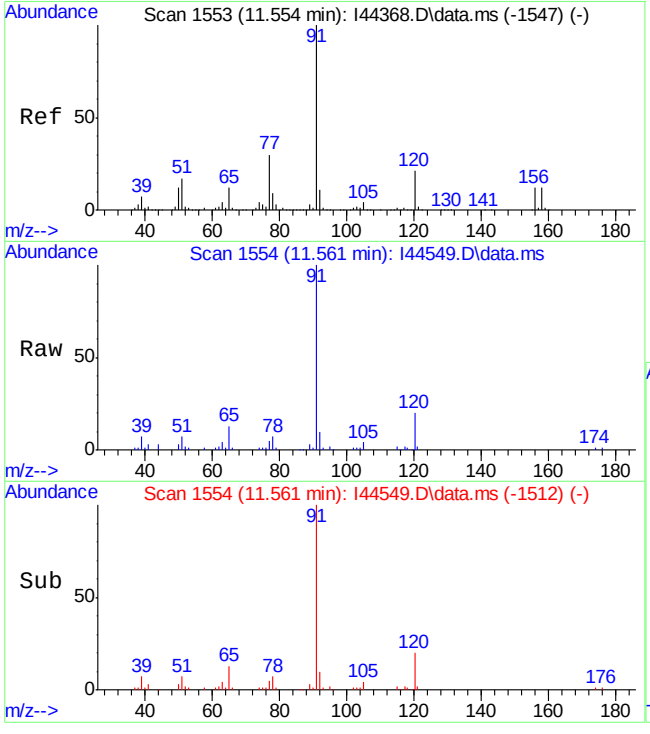


#77
Isopropylbenzene
Concen: 9.04 ug/L
RT: 11.134 min Scan# 1484
Delta R.T. 0.000 min
Lab File: I44549.D
Acq: 28 Dec 2016 3:24 pm

Tgt Ion:105 Resp: 350876

Ion	Ratio	Lower	Upper
105	100		
120	23.6	0.0	55.3

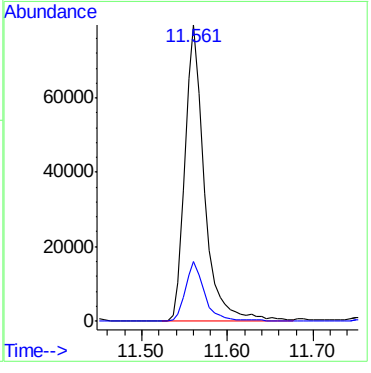


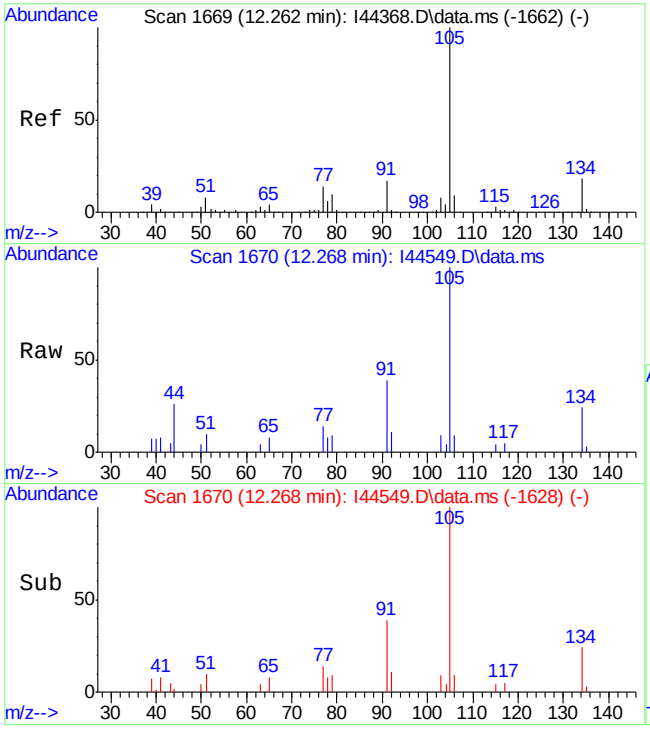


#81
n-Propylbenzene
Concen: 2.53 ug/L
RT: 11.561 min Scan# 1554
Delta R.T. 0.007 min
Lab File: I44549.D
Acq: 28 Dec 2016 3:24 pm

Tgt Ion: 91 Resp: 125829

Ion	Ratio	Lower	Upper
91	100		
120	20.2	0.0	50.6

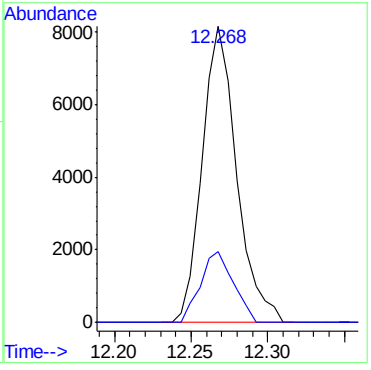


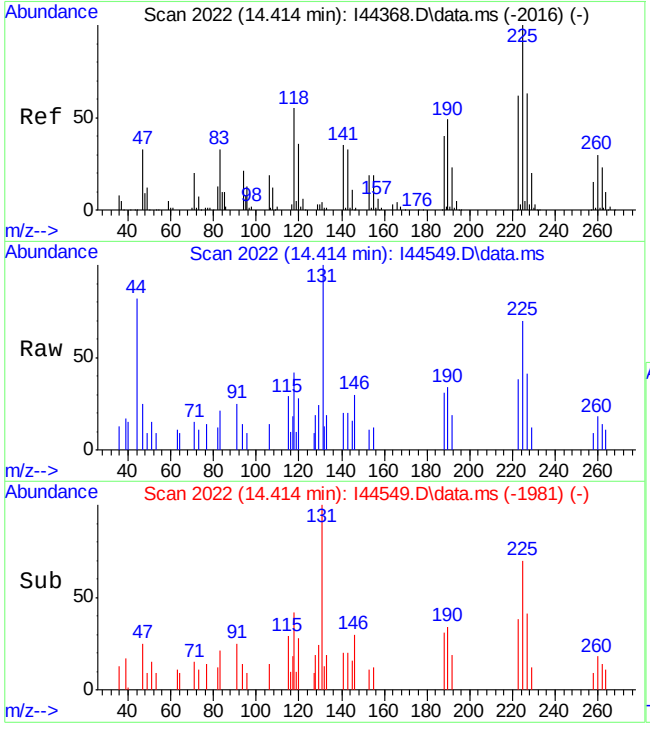


#94
sec-Butylbenzene
Concen: 0.30 ug/L
RT: 12.268 min Scan# 1670
Delta R.T. 0.006 min
Lab File: I44549.D
Acq: 28 Dec 2016 3:24 pm

Tgt Ion:105 Resp: 12735

Ion	Ratio	Lower	Upper
105	100		
134	23.9	0.0	47.6

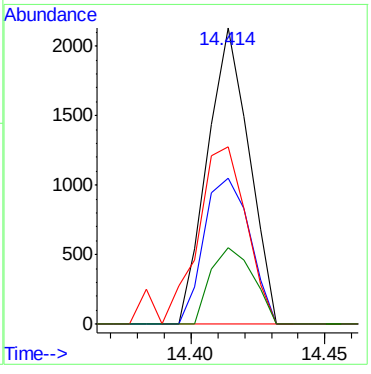


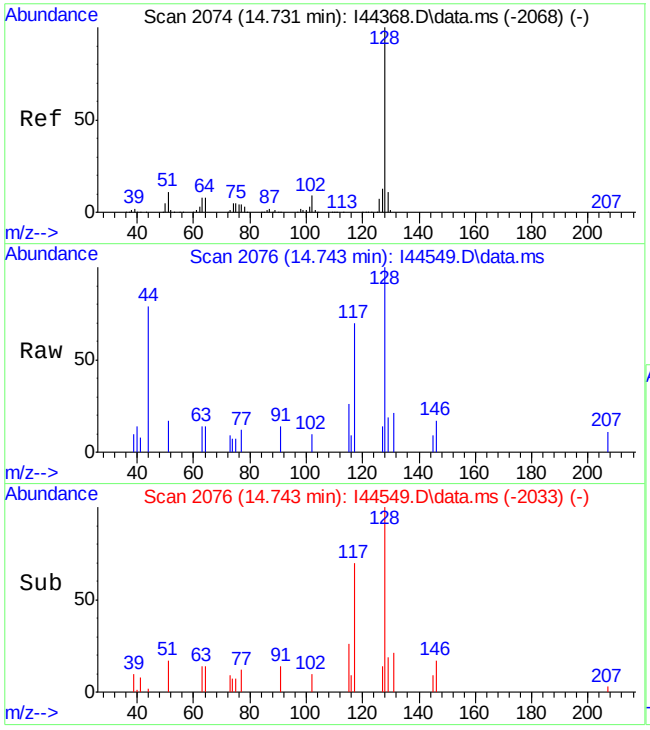


#102
Hexachlorobutadiene
Concen: 0.50 ug/L
RT: 14.414 min Scan# 2022
Delta R.T. 0.000 min
Lab File: I44549.D
Acq: 28 Dec 2016 3:24 pm

Tgt Ion:225 Resp: 2297

Ion	Ratio	Lower	Upper
225	100		
190	49.4	18.7	78.7
118	59.9	25.3	85.3
260	25.8	0.0	59.6

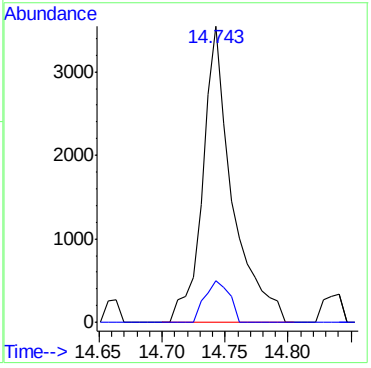


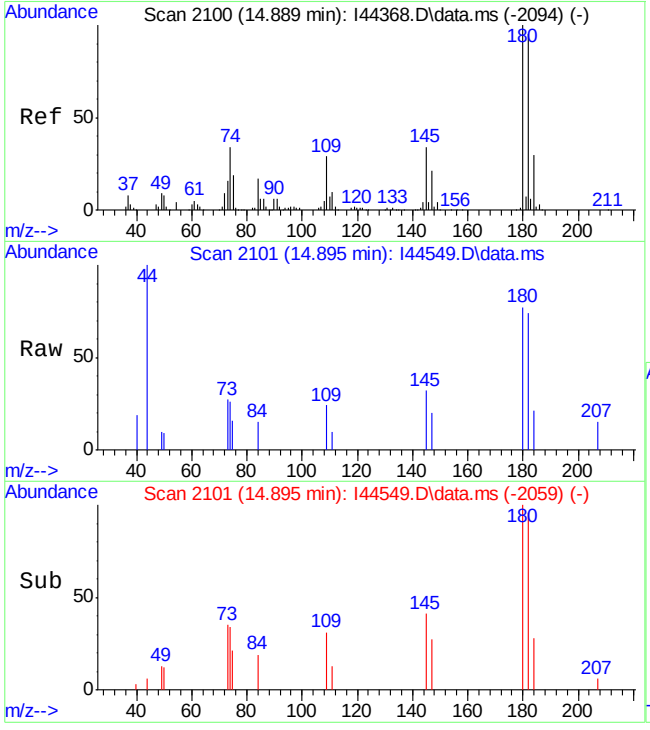


#104
Naphthalene
Concen: 0.23 ug/L
RT: 14.743 min Scan# 2076
Delta R.T. 0.012 min
Lab File: I44549.D
Acq: 28 Dec 2016 3:24 pm

Tgt Ion:128 Resp: 5786

Ion	Ratio	Lower	Upper
128	100		
127	14.0	0.0	42.5

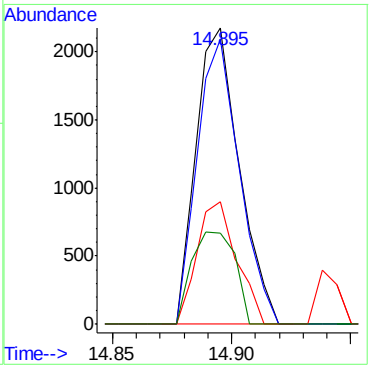




#105
1,2,3-Trichlorobenzene
Concen: 0.30 ug/L
RT: 14.895 min Scan# 2101
Delta R.T. 0.006 min
Lab File: I44549.D
Acq: 28 Dec 2016 3:24 pm

Tgt Ion:180 Resp: 2736

Ion	Ratio	Lower	Upper
180	100		
182	96.1	65.3	125.3
145	41.3	3.7	63.7
109	30.9	0.0	59.0



7.1.2

7

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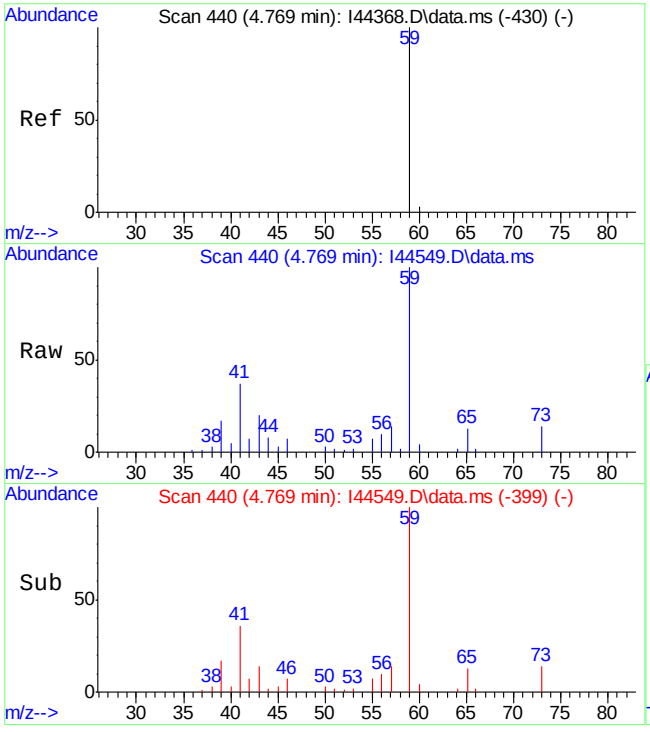
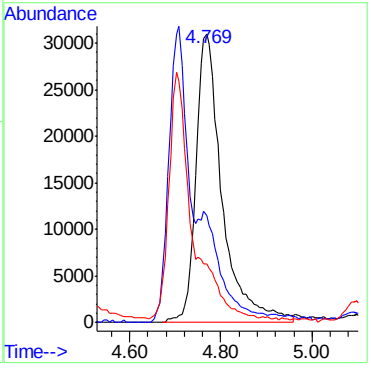
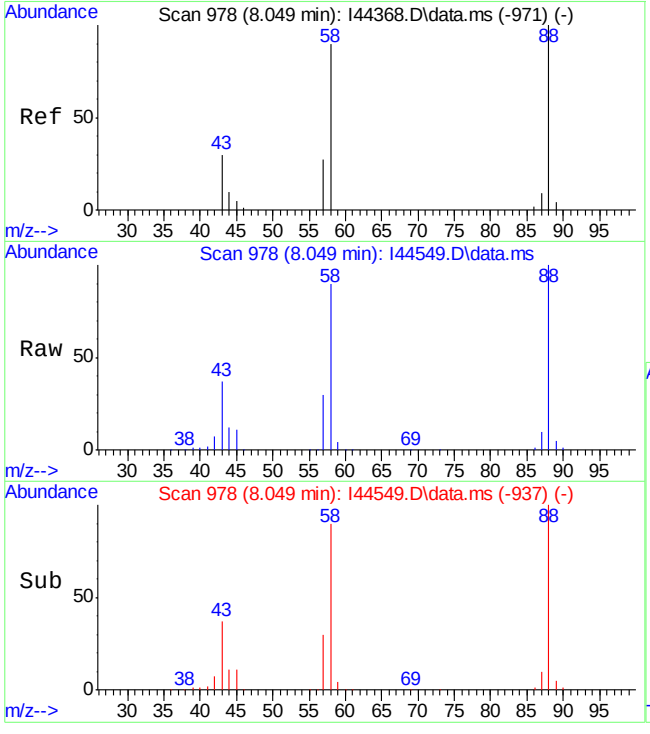


#109
Tert Butyl Alcohol
Concen: 171.94 ug/L
RT: 4.769 min Scan# 440
Delta R.T. 0.000 min
Lab File: I44549.D
Acq: 28 Dec 2016 3:24 pm

Tgt Ion: 59 Resp: 124053

Ion	Ratio	Lower	Upper
59	100		
41	35.0	0.0	20.0#
43	19.1	7.1	47.1

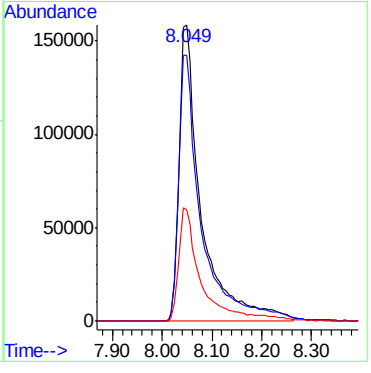




#112
1,4-Dioxane
Concen: 7812.26 ug/L
RT: 8.049 min Scan# 978
Delta R.T. 0.000 min
Lab File: I44549.D
Acq: 28 Dec 2016 3:24 pm

Tgt Ion: 88 Resp: 492629

Ion	Ratio	Lower	Upper
88	100		
58	89.8	60.1	120.1
43	37.5	3.3	63.3



7.1.2

7

SGS ACCUTEST FA39742

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\122816\
Data File : I44550.D
Acq On : 28 Dec 2016 3:48 pm
Operator : WILFREDO
Sample : FA39742-3 MA Inst : MSVOA16
Misc : MS35953,VI1223,,,,,
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Dec 29 08:23:13 2016
Quant Method : C:\msdchem\2\METHODS\I-DEC22.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Dec 23 09:02:35 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.116	96	1914822	50.00	ug/L	0.00
56) Chlorobenzene-d5	10.226	117	1264651	50.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	12.591	152	593984	50.00	ug/L	0.00
106) Tert Butyl Alcohol-d10	4.696	65	130398	250.00	ug/L	0.00
System Monitoring Compounds						
36) Dibromofluoromethane	6.275	113	475071	49.15	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 98.30%			
46) 1,2-Dichloroethane-d4	6.830	65	708436	51.89	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 103.78%			
57) Toluene-d8	8.677	98	1789688	51.75	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 103.50%			
79) 4-Bromofluorobenzene	11.439	174	422383	48.82	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 97.64%			
Target Compounds						Qvalue
112) 1,4-Dioxane	8.086	88	1903	33.38	ug/L	88

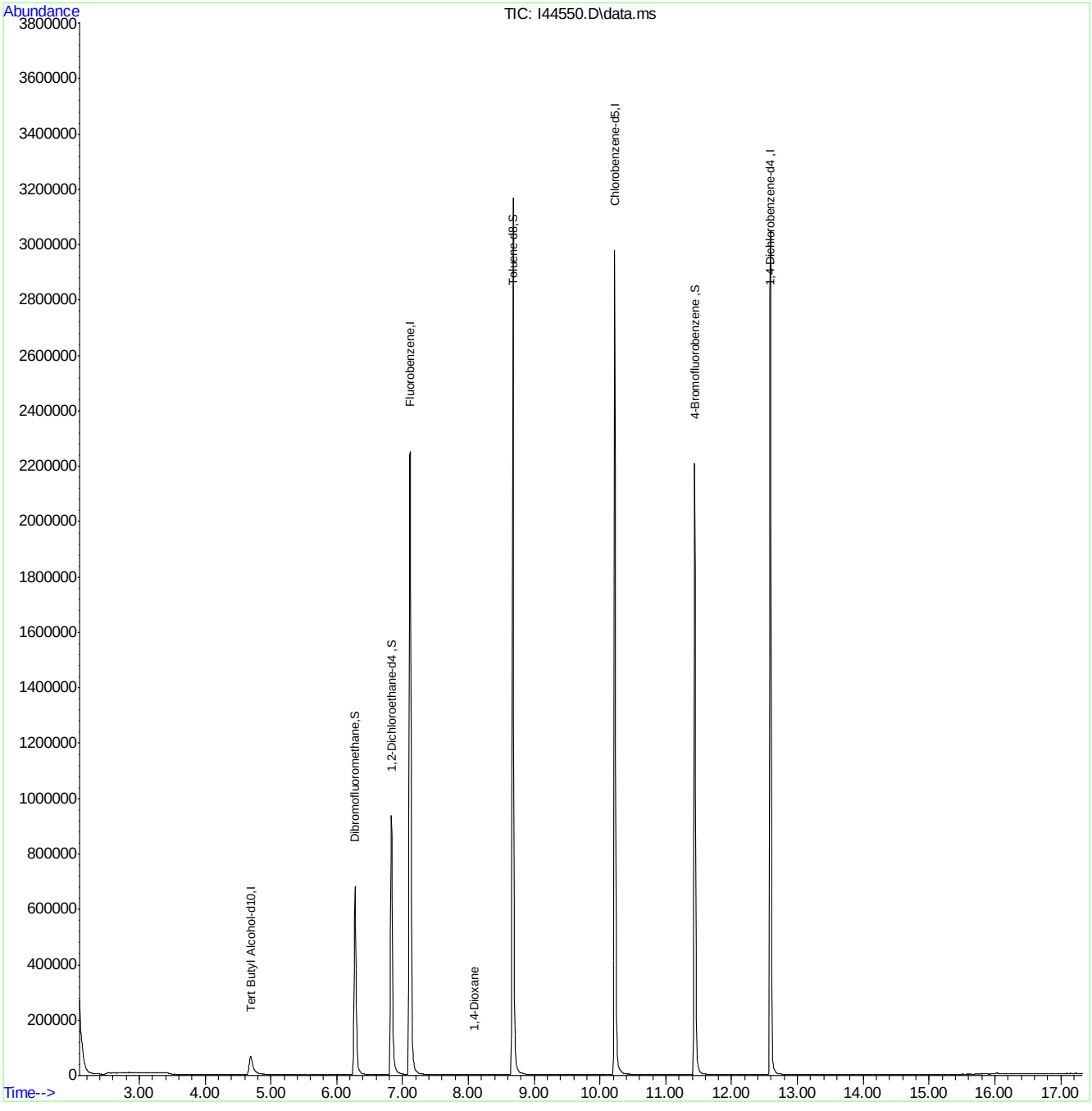
(#) = qualifier out of range (m) = manual integration (+) = signals summed

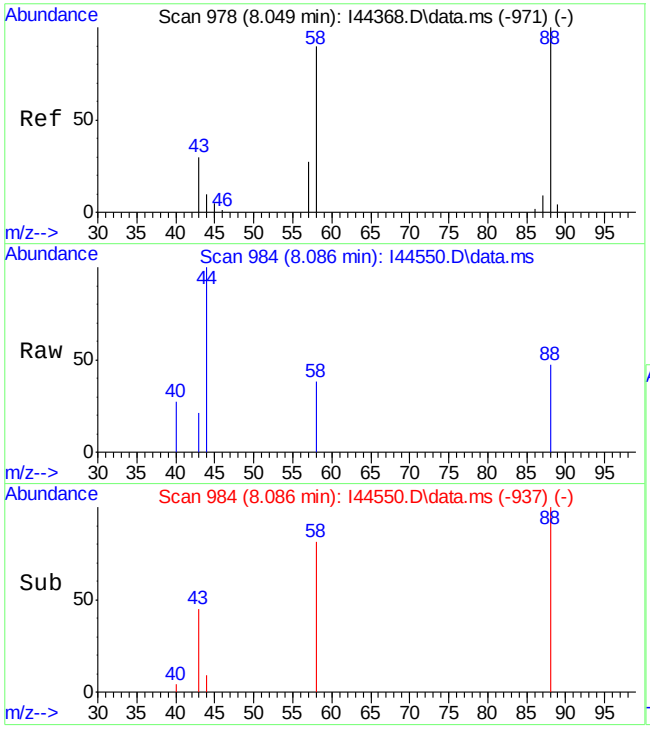
SGS ACCUTEST FA39742

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\122816\
Data File : I44550.D
Acq On : 28 Dec 2016 3:48 pm
Operator : WILFREDO
Sample : FA39742-3 MA Inst : MSVOA16
Misc : MS35953,VI1223,,,,,
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Dec 29 08:23:13 2016
Quant Method : C:\msdchem\2\METHODS\I-DEC22.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Dec 23 09:02:35 2016
Response via : Initial Calibration

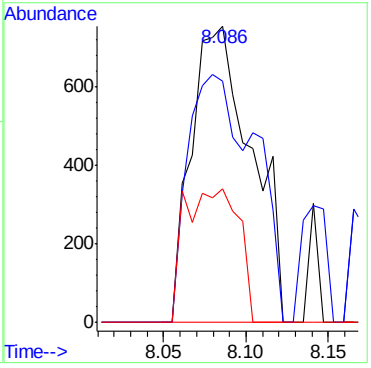




#112
1,4-Dioxane
Concen: 33.38 ug/L
RT: 8.086 min Scan# 984
Delta R.T. 0.037 min
Lab File: I44550.D
Acq: 28 Dec 2016 3:48 pm

Tgt Ion: 88 Resp: 1903

Ion	Ratio	Lower	Upper
88	100		
58	81.4	60.1	120.1
43	44.9	3.3	63.3



SGS ACCUTEST FA39742

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\122816\
Data File : I44551.D
Acq On : 28 Dec 2016 4:12 pm
Operator : WILFREDO
Sample : FA39742-4 MA Inst : MSVOA16
Misc : MS35953,VI1223,,,,,
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Dec 29 08:23:23 2016
Quant Method : C:\msdchem\2\METHODS\I-DEC22.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Dec 23 09:02:35 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.116	96	1808668	50.00	ug/L	0.00
56) Chlorobenzene-d5	10.225	117	1191334	50.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	12.591	152	555473	50.00	ug/L	0.00
106) Tert Butyl Alcohol-d10	4.690	65	130967	250.00	ug/L	0.00
System Monitoring Compounds						
36) Dibromofluoromethane	6.281	113	442861	48.50	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 97.00%			
46) 1,2-Dichloroethane-d4	6.830	65	690510	53.55	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 107.10%			
57) Toluene-d8	8.677	98	1684738	51.72	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 103.44%			
79) 4-Bromofluorobenzene	11.439	174	408350	50.47	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 100.94%			

Target Compounds Qvalue

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

7.1.4

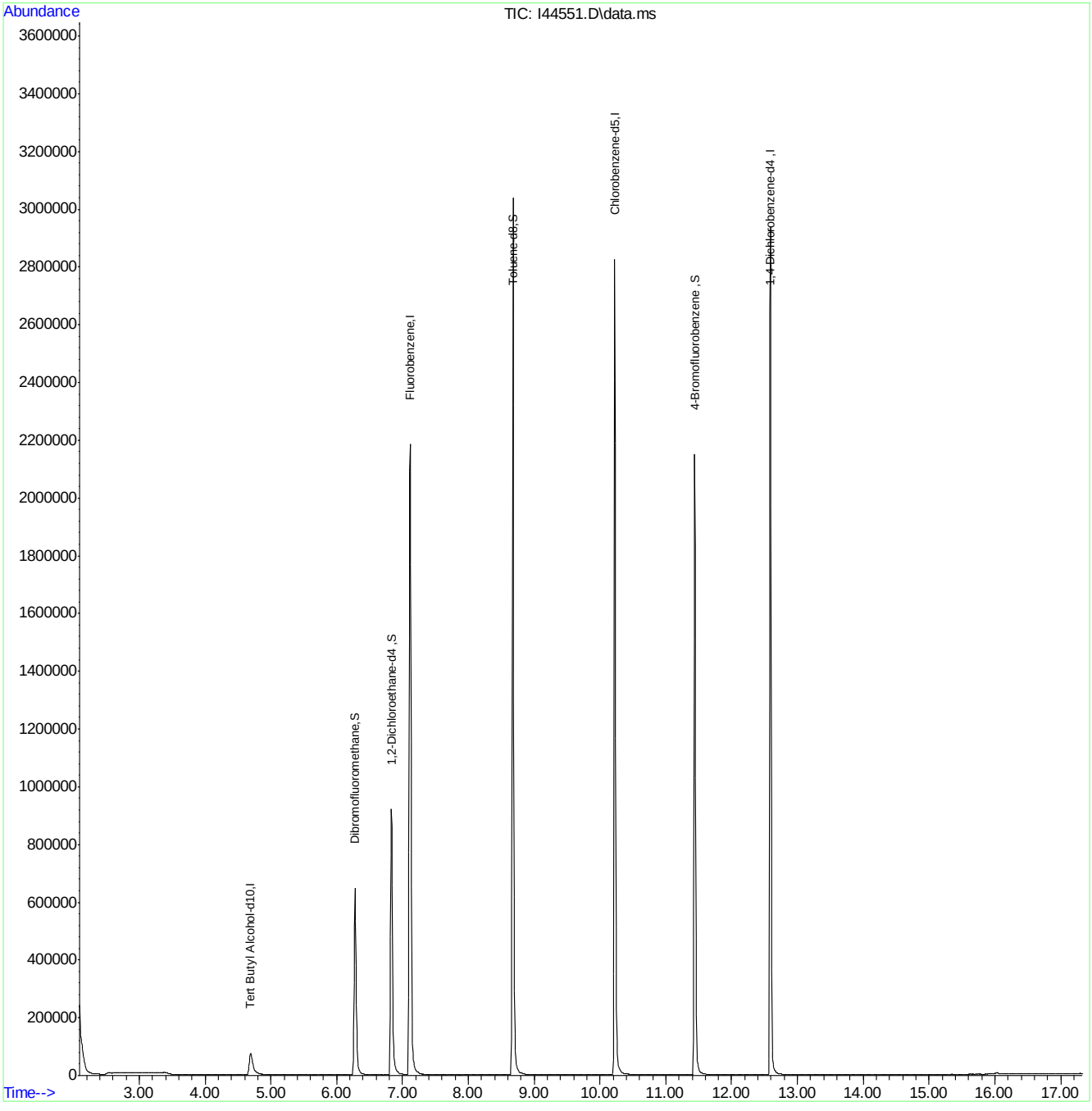
7

SGS ACCUTEST FA39742

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\122816\
Data File : I44551.D
Acq On : 28 Dec 2016 4:12 pm
Operator : WILFREDO
Sample : FA39742-4 MA Inst : MSVOA16
Misc : MS35953,VI1223,,,,,
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Dec 29 08:23:23 2016
Quant Method : C:\msdchem\2\METHODS\I-DEC22.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Dec 23 09:02:35 2016
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\122816\
Data File : I44552.D
Acq On : 28 Dec 2016 4:36 pm
Operator : WILFREDO
Sample : FA39742-5 MA Inst : MSVOA16
Misc : MS35953,VI1223,,,,,
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Dec 29 08:23:36 2016
Quant Method : C:\msdchem\2\METHODS\I-DEC22.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Dec 23 09:02:35 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.116	96	1774371	50.00	ug/L	0.00
56) Chlorobenzene-d5	10.225	117	1163946	50.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	12.591	152	543082	50.00	ug/L	0.00
106) Tert Butyl Alcohol-d10	4.696	65	131842	250.00	ug/L	0.00
System Monitoring Compounds						
36) Dibromofluoromethane	6.275	113	437734	48.87	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 97.74%			
46) 1,2-Dichloroethane-d4	6.830	65	668113	52.81	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 105.62%			
57) Toluene-d8	8.677	98	1655688	52.02	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 104.04%			
79) 4-Bromofluorobenzene	11.439	174	381254	48.20	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 96.40%			
Target Compounds						Qvalue
16) Methylene Chloride	4.434	49	5845	0.36	ug/L	85
58) Toluene	8.732	91	11429	0.35	ug/L	95

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

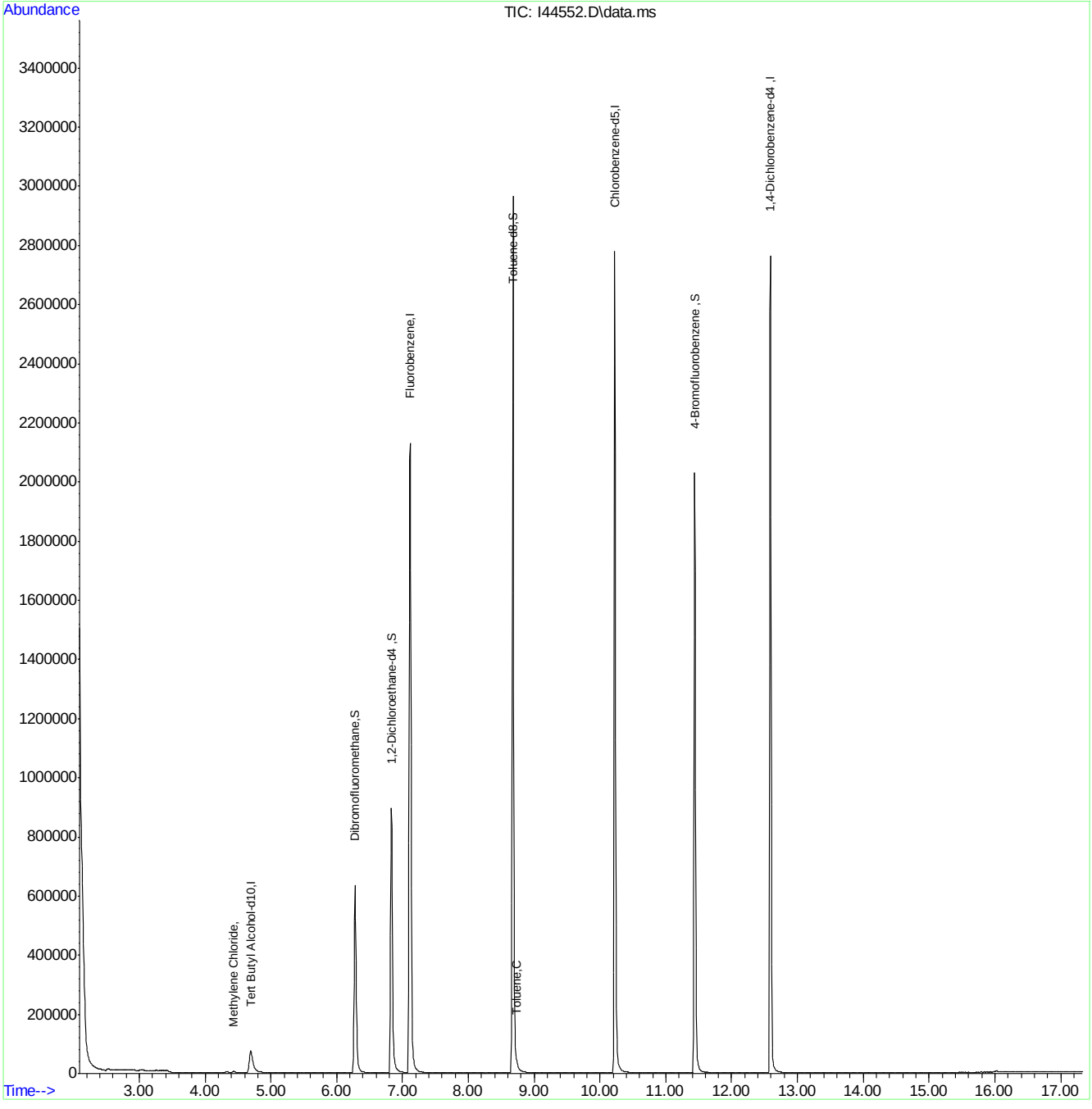
7.1.5

7

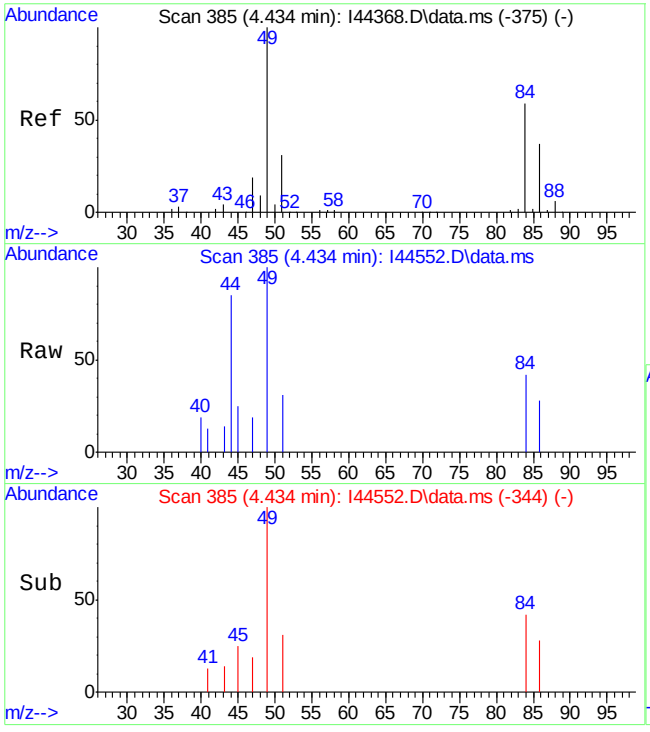
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\122816\
Data File : I44552.D
Acq On : 28 Dec 2016 4:36 pm
Operator : WILFREDO
Sample : FA39742-5 MA Inst : MSVOA16
Misc : MS35953,VI1223,,,,,
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Dec 29 08:23:36 2016
Quant Method : C:\msdchem\2\METHODS\I-DEC22.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Dec 23 09:02:35 2016
Response via : Initial Calibration



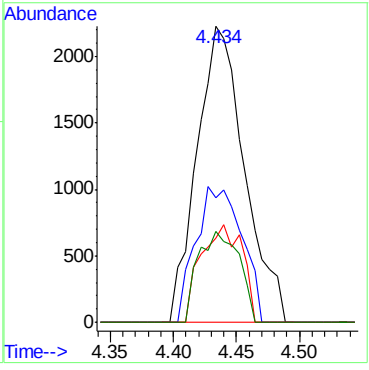
SGS ACCUTEST FA39742

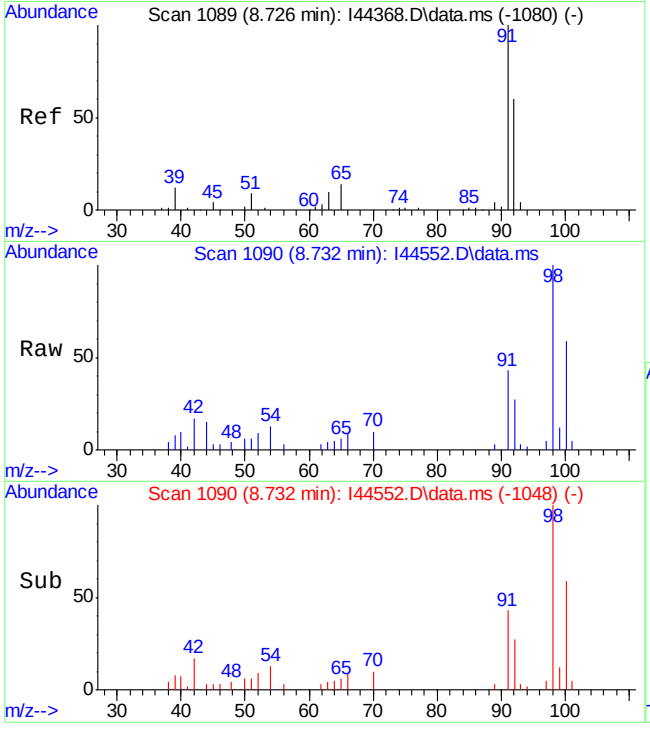


#16
Methylene Chloride
Concen: 0.36 ug/L
RT: 4.434 min Scan# 385
Delta R.T. -0.000 min
Lab File: I44552.D
Acq: 28 Dec 2016 4:36 pm

Tgt Ion: 49 Resp: 5845

Ion	Ratio	Lower	Upper
49	100		
84	42.1	28.9	88.9
86	28.3	7.2	67.2
51	30.8	1.3	61.3

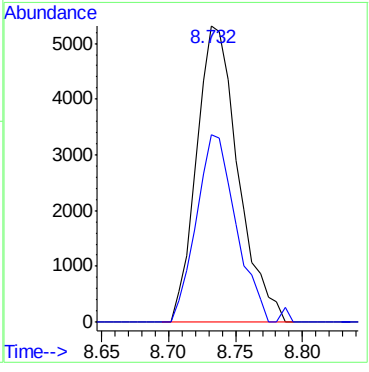




#58
Toluene
Concen: 0.35 ug/L
RT: 8.732 min Scan# 1090
Delta R.T. 0.006 min
Lab File: I44552.D
Acq: 28 Dec 2016 4:36 pm

Tgt Ion: 91 Resp: 11429

Ion	Ratio	Lower	Upper
91	100		
92	63.4	29.7	89.7



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\123016\
Data File : I44673.D
Acq On : 30 Dec 2016 7:21 pm
Operator : WILFREDO
Sample : FA39742-6 MA Inst : MSVOA16
Misc : MS35976,VI1230,,,,,
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Dec 31 11:25:44 2016
Quant Method : C:\msdchem\2\METHODS\I-DEC22.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Dec 23 09:02:35 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.116	96	1926676	50.00	ug/L	0.00
56) Chlorobenzene-d5	10.225	117	1265659	50.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	12.591	152	584834	50.00	ug/L	0.00
106) Tert Butyl Alcohol-d10	4.690	65	139808	250.00	ug/L	0.00
System Monitoring Compounds						
36) Dibromofluoromethane	6.275	113	488906	50.27	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 100.54%			
46) 1,2-Dichloroethane-d4	6.830	65	705176	51.34	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 102.68%			
57) Toluene-d8	8.677	98	1785710	51.60	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 103.20%			
79) 4-Bromofluorobenzene	11.439	174	433602	50.90	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 101.80%			

Target Compounds Qvalue

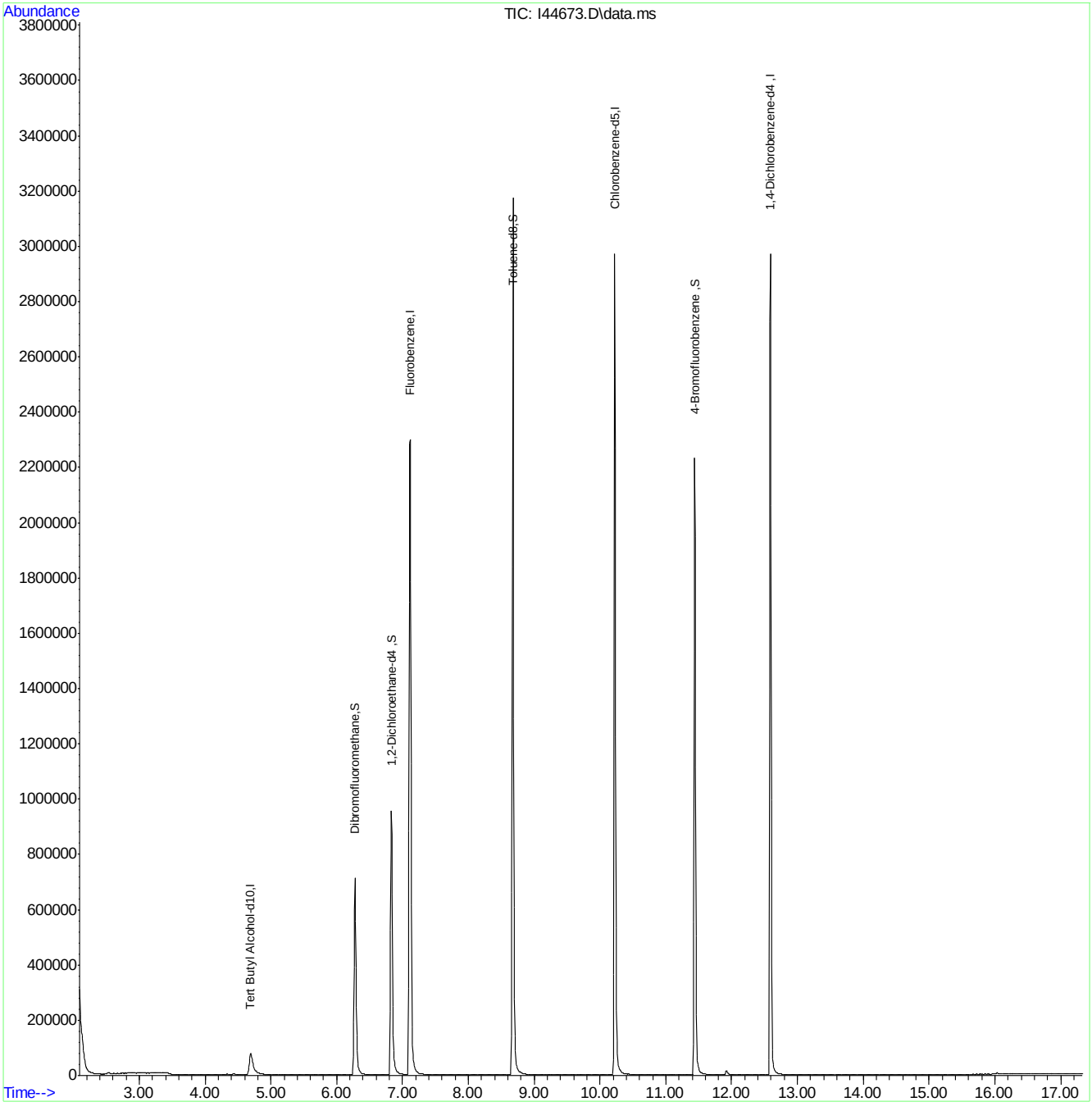
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST FA39742

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\123016\
Data File : I44673.D
Acq On : 30 Dec 2016 7:21 pm
Operator : WILFREDO
Sample : FA39742-6 MA Inst : MSVOA16
Misc : MS35976,VI1230,,,,,
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Dec 31 11:25:44 2016
Quant Method : C:\msdchem\2\METHODS\I-DEC22.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Dec 23 09:02:35 2016
Response via : Initial Calibration



SGS ACCUTEST FA39742

Manual Integrations APPROVED (compounds with "m" flag)
Juan Garcia
12/30/16 16:26

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\122816\
Data File : I44553.D
Acq On : 28 Dec 2016 5:00 pm
Operator : WILFREDO
Sample : FA39742-7 MA Inst : MSVOA16
Misc : MS35953,VI1223,,,,,
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Dec 29 08:24:25 2016
Quant Method : C:\msdchem\2\METHODS\I-DEC22.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Dec 23 09:02:35 2016
Response via : Initial Calibration

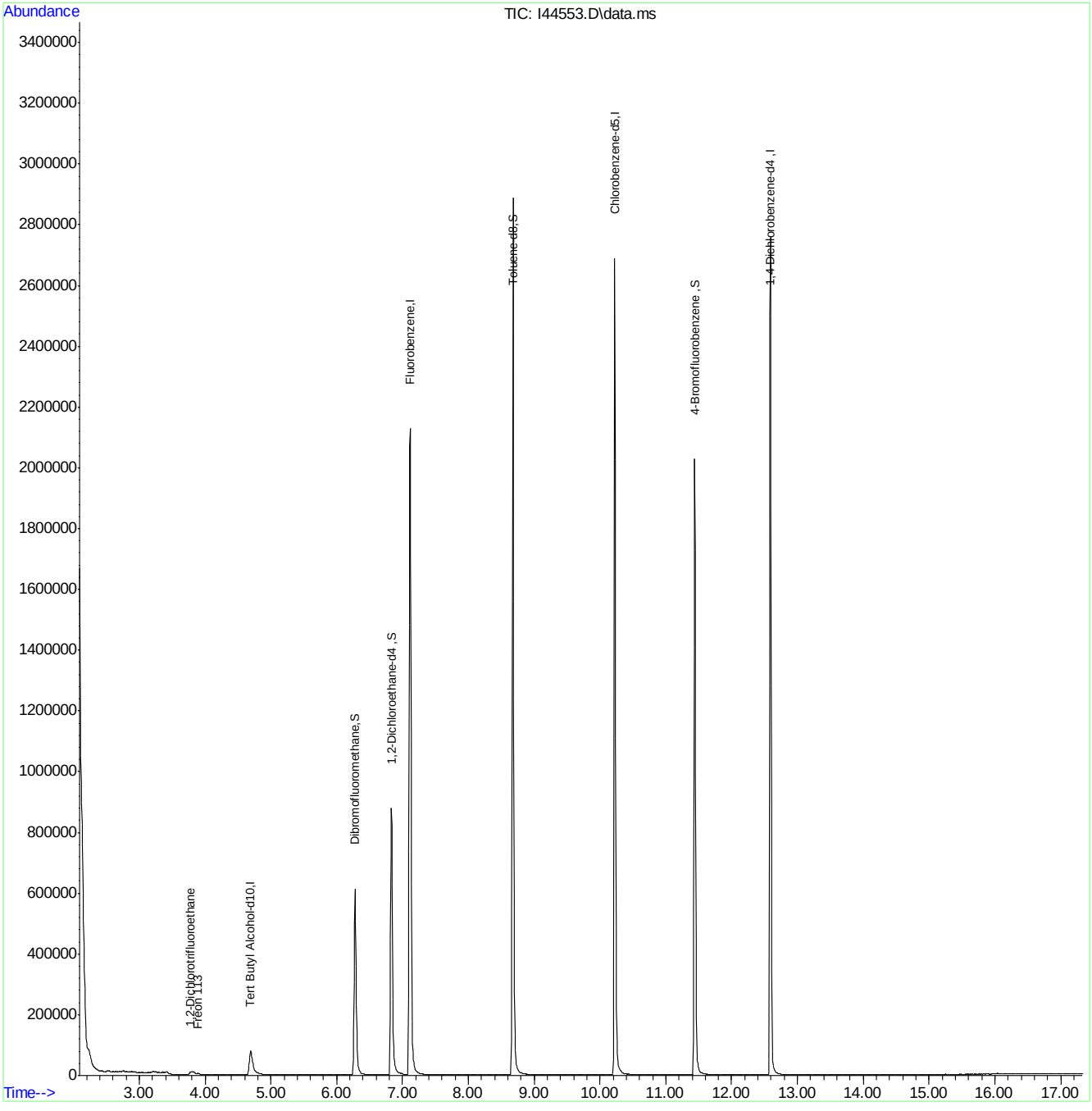
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.116	96	1752440	50.00	ug/L	0.00
56) Chlorobenzene-d5	10.226	117	1122219	50.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	12.591	152	524644	50.00	ug/L	0.00
106) Tert Butyl Alcohol-d10	4.690	65	130118	250.00	ug/L	0.00
System Monitoring Compounds						
36) Dibromofluoromethane	6.275	113	421633	47.66	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 95.32%			
46) 1,2-Dichloroethane-d4	6.830	65	659947	52.82	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 105.64%			
57) Toluene-d8	8.677	98	1582702	51.58	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 103.16%			
79) 4-Bromofluorobenzene	11.439	174	379507	49.66	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 99.32%			
Target Compounds						Qvalue
10) 1,2-Dichlorotrifluoroe...	3.782	67	18945m	1.60	ug/L	
12) Freon 113	3.891	101	4328	0.47	ug/L	87

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

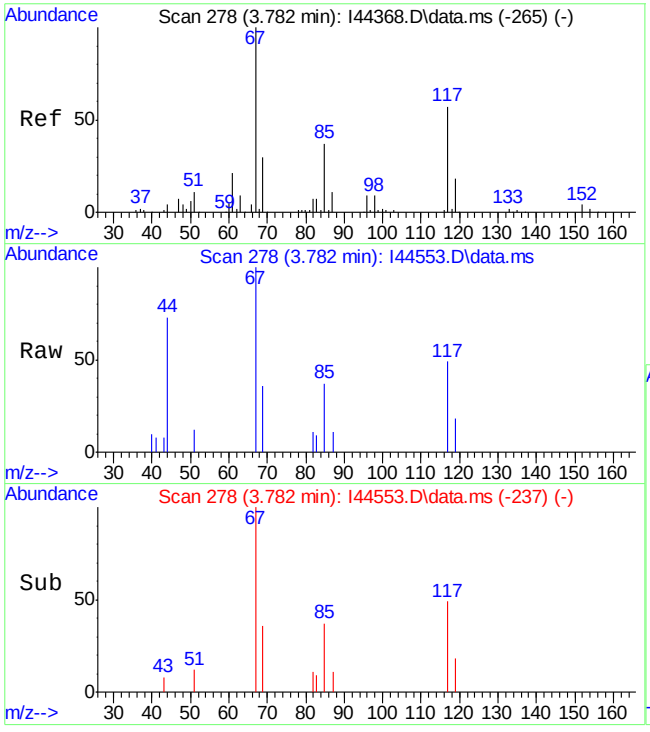
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\122816\
Data File : I44553.D
Acq On : 28 Dec 2016 5:00 pm
Operator : WILFREDO
Sample : FA39742-7 MA Inst : MSVOA16
Misc : MS35953,VI1223,,,,,
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Dec 29 08:24:25 2016
Quant Method : C:\msdchem\2\METHODS\I-DEC22.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Dec 23 09:02:35 2016
Response via : Initial Calibration



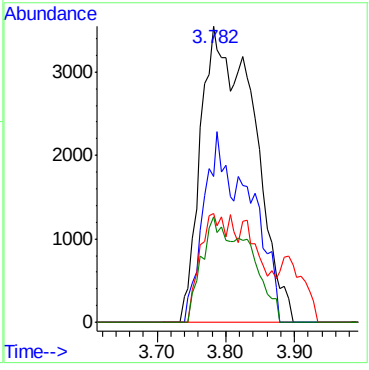
SGS ACCUTEST FA39742

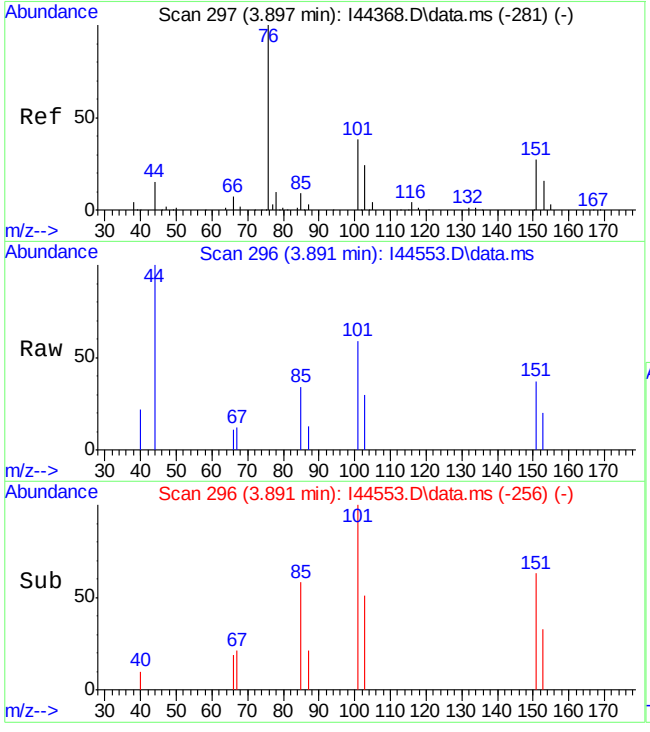


#10
1,2-Dichlorotrifluoroethane
Concen: 1.60 ug/L m
RT: 3.782 min Scan# 278
Delta R.T. 0.000 min
Lab File: I44553.D
Acq: 28 Dec 2016 5:00 pm

Tgt Ion: 67 Resp: 18945

Ion	Ratio	Lower	Upper
67	100		
117	49.4	37.7	77.7
85	36.7	16.8	56.8
69	35.5	9.7	49.7

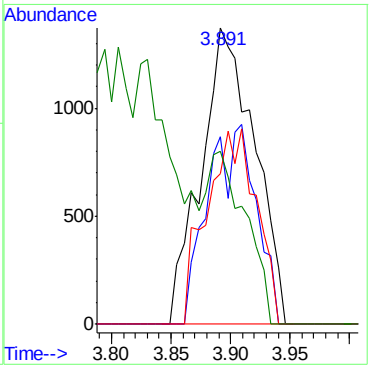




#12
Freon 113
Concen: 0.47 ug/L
RT: 3.891 min Scan# 296
Delta R.T. -0.006 min
Lab File: I44553.D
Acq: 28 Dec 2016 5:00 pm

Tgt Ion:101 Resp: 4328

Ion	Ratio	Lower	Upper
101	100		
151	63.1	48.6	88.6
103	50.7	43.2	83.2
85	58.3	26.6	66.6



SGS ACCUTEST FA39742

Manual Integration Approval Summary

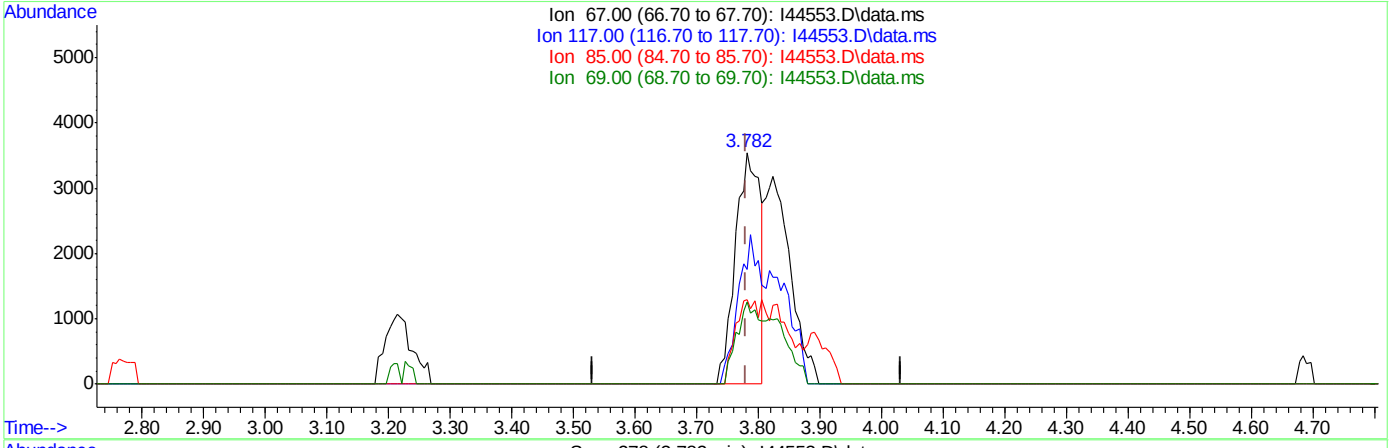
Sample Number:	FA39742-7	**Method:**	SW846 8260C
Lab FileID:	I44553.D	**Analyst approved:**	12/29/16 08:57 Wilfredo Vazquez
Injection Time:	12/28/16 17:00	**Supervisor approved:**	12/30/16 16:26 Juan Garcia

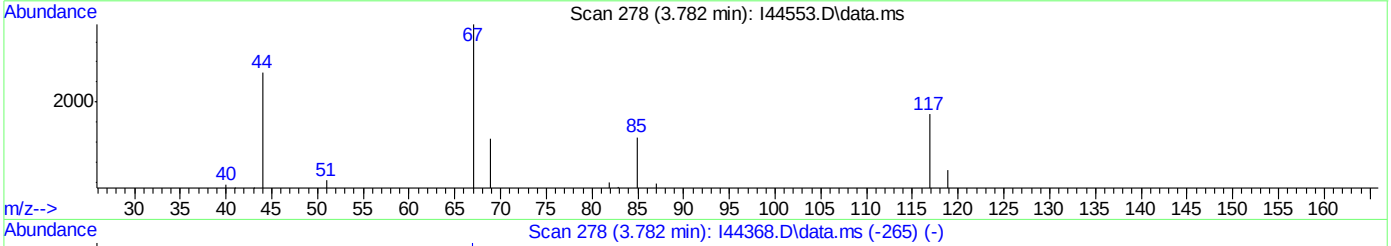
Parameter	CAS	Sig#	R.T. (min.)	Reason
1,2-Dichlorotrifluoroethane	354-23-4		3.78	Split peak

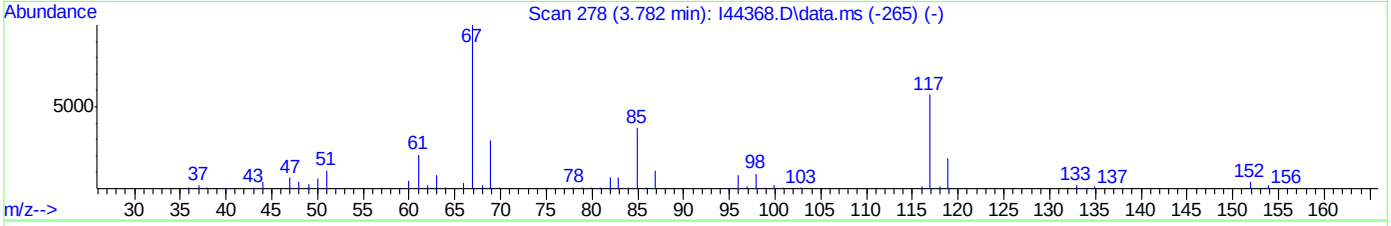
Quantitation Report (Qedit)

Data Path : C:\msdchem\2\DATA\122816\
Data File : I44553.D
Acq On : 28 Dec 2016 5:00 pm
Operator : WILFREDO
Sample : FA39742-7 MA Inst : MSVOA16
Misc : MS35953,VI1223,,,,,
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Dec 29 08:02:04 2016
Quant Method : C:\msdchem\2\METHODS\I-DEC22.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Dec 23 09:02:35 2016
Response via : Initial Calibration







TIC: I44553.D\data.ms

(10) 1,2-Dichlorotrifluoroethane

3.782min (+0.000) 0.84ug/L

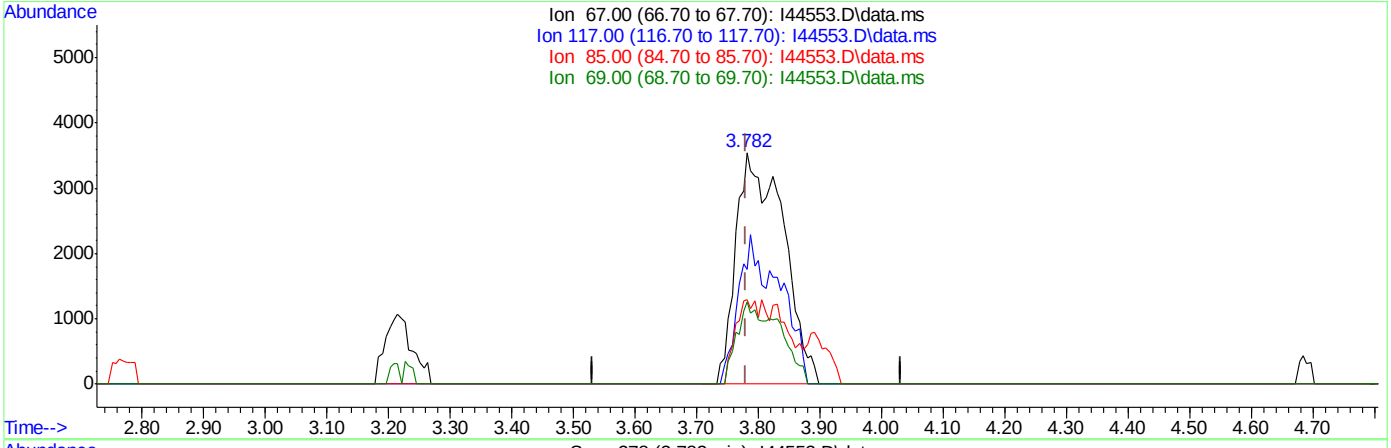
response 9945

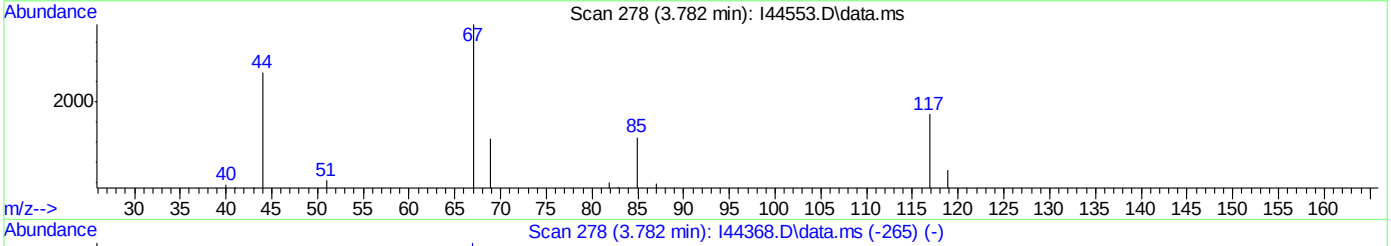
Ion	Exp%	Act%
67.00	100	100
117.00	57.70	49.38
85.00	36.80	36.67
69.00	29.70	35.51

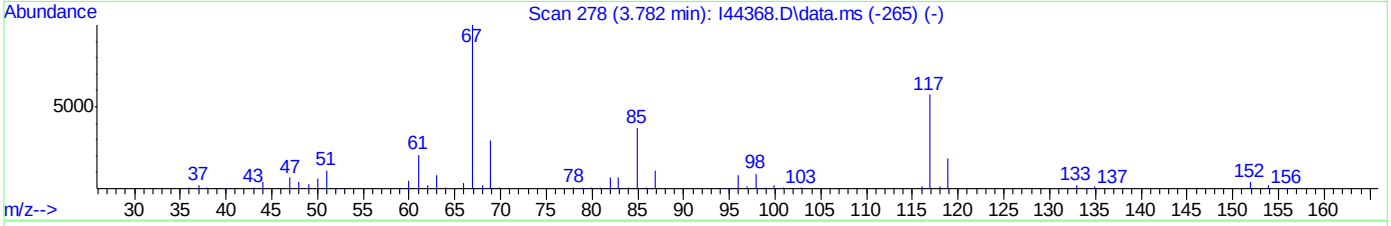
Quantitation Report (Qedit)

Data Path : C:\msdchem\2\DATA\122816\
Data File : I44553.D
Acq On : 28 Dec 2016 5:00 pm
Operator : WILFREDO
Sample : FA39742-7 MA Inst : MSVOA16
Misc : MS35953,VI1223,,,,,
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Dec 29 08:02:04 2016
Quant Method : C:\msdchem\2\METHODS\I-DEC22.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Dec 23 09:02:35 2016
Response via : Initial Calibration







TIC: I44553.D\data.ms

(10) 1,2-Dichlorotrifluoroethane

3.782min (+0.000) 1.60ug/L m

response 18945

Ion	Exp%	Act%
67.00	100	100
117.00	57.70	49.38
85.00	36.80	36.67
69.00	29.70	35.51

Manual Integrations
APPROVED
(compounds with "m" flag)
Juan Garcia
12/30/16 16:26

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\122816\
Data File : I44554.D
Acq On : 28 Dec 2016 5:24 pm
Operator : WILFREDO
Sample : FA39742-8 MA Inst : MSVOA16
Misc : MS35953,VI1223,,,,,
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Dec 29 08:25:40 2016
Quant Method : C:\msdchem\2\METHODS\I-DEC22.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Dec 23 09:02:35 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.116	96	1675187	50.00	ug/L	0.00
56) Chlorobenzene-d5	10.226	117	1110080	50.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	12.591	152	518054	50.00	ug/L	0.00
106) Tert Butyl Alcohol-d10	4.690	65	130663	250.00	ug/L	0.00
System Monitoring Compounds						
36) Dibromofluoromethane	6.275	113	417533	49.37	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 98.74%			
46) 1,2-Dichloroethane-d4	6.830	65	654833	54.83	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 109.66%			
57) Toluene-d8	8.677	98	1564119	51.53	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 103.06%			
79) 4-Bromofluorobenzene	11.439	174	372763	49.40	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 98.80%			
Target Compounds						Qvalue
10) 1,2-Dichlorotrifluoroe...	3.782	67	45975m	4.05	ug/L	
21) Methyl Tert Butyl Ether	4.708	73	7880	0.34	ug/L #	72
29) cis-1,2-Dichloroethene	5.830	96	8923	0.99	ug/L	97
48) Trichloroethene	7.311	95	6762	0.72	ug/L	91
70) Ethylbenzene	10.256	91	37459	1.06	ug/L	100
71) Chlorobenzene	10.244	112	28469	1.29	ug/L	99
73) m,p-Xylene	10.402	91	19159	0.71	ug/L	99
74) o-Xylene	10.835	91	6476	0.23	ug/L	94
96) 1,3-Dichlorobenzene	12.536	146	4085	0.27	ug/L	99
97) 1,4-Dichlorobenzene	12.603	146	20421m	1.30	ug/L	
100) 1,2-Dichlorobenzene	13.048	146	110358	7.60	ug/L	97

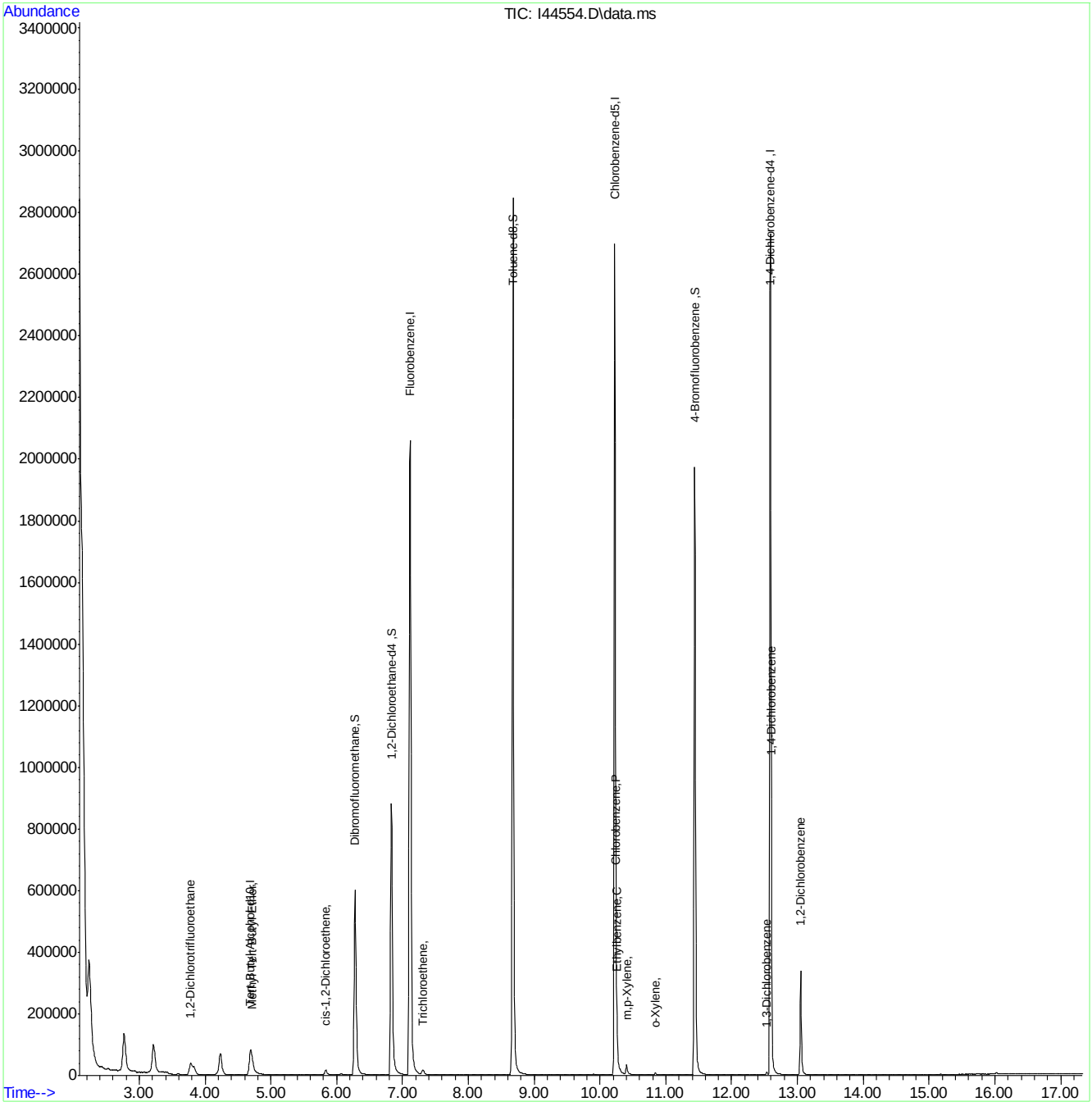
(#) = qualifier out of range (m) = manual integration (+) = signals summed

7.1.8
7

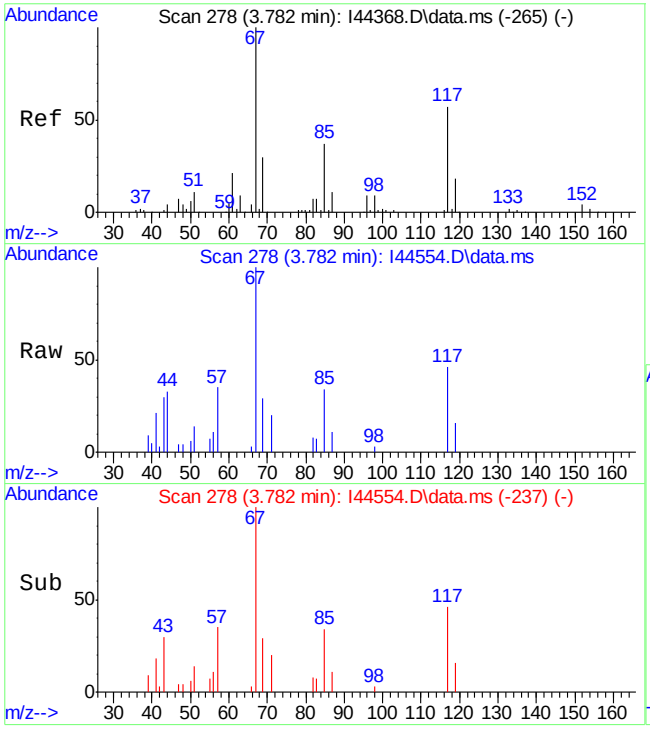
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\122816\
Data File : I44554.D
Acq On : 28 Dec 2016 5:24 pm
Operator : WILFREDO
Sample : FA39742-8 MA Inst : MSVOA16
Misc : MS35953,VI1223,,,,,
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Dec 29 08:25:40 2016
Quant Method : C:\msdchem\2\METHODS\I-DEC22.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Dec 23 09:02:35 2016
Response via : Initial Calibration



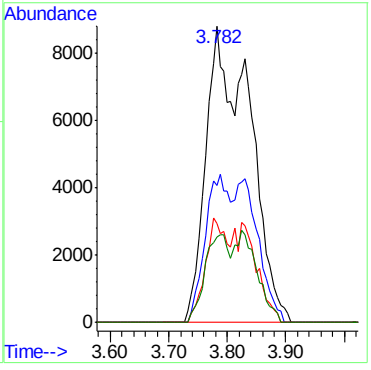
SGS ACCUTEST FA39742

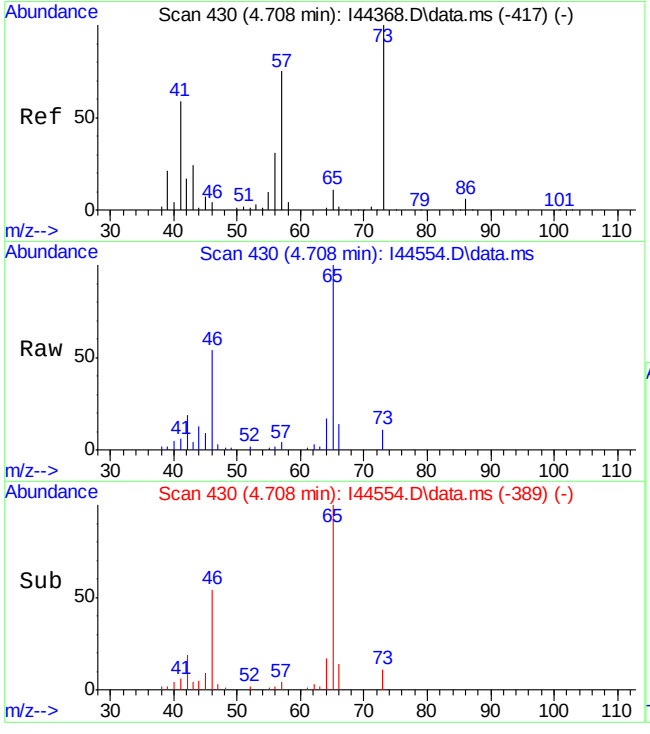


#10
1,2-Dichlorotrifluoroethane
Concen: 4.05 ug/L m
RT: 3.782 min Scan# 278
Delta R.T. 0.000 min
Lab File: I44554.D
Acq: 28 Dec 2016 5:24 pm

Tgt Ion: 67 Resp: 45975

Ion	Ratio	Lower	Upper
67	100		
117	46.2	37.7	77.7
85	33.6	16.8	56.8
69	29.0	9.7	49.7

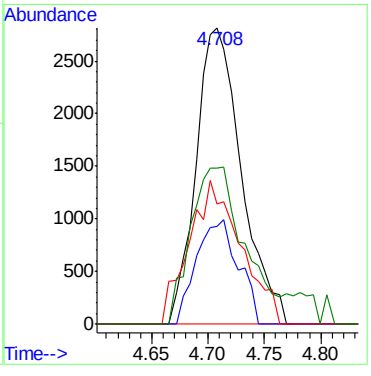


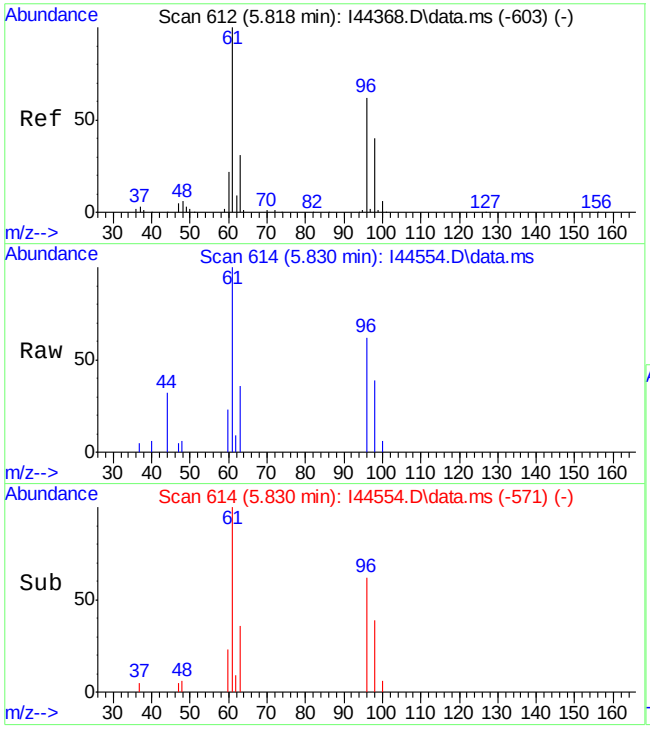


#21
Methyl Tert Butyl Ether
Concen: 0.34 ug/L
RT: 4.708 min Scan# 430
Delta R.T. 0.000 min
Lab File: I44554.D
Acq: 28 Dec 2016 5:24 pm

Tgt Ion: 73 Resp: 7880

Ion	Ratio	Lower	Upper
73	100		
57	33.1	45.0	105.0#
43	40.7	24.7	84.7
41	52.5	28.6	88.6

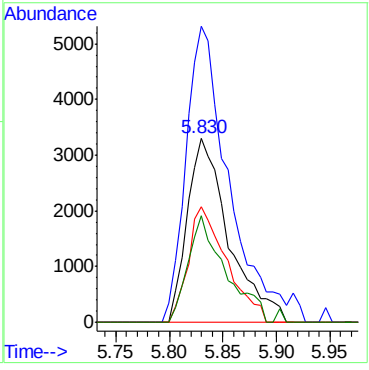


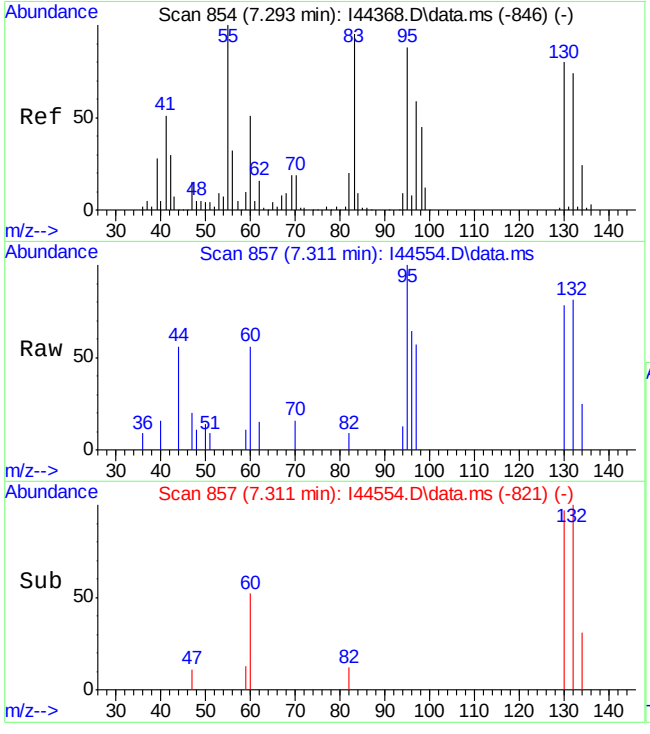


#29
cis-1,2-Dichloroethene
Concen: 0.99 ug/L
RT: 5.830 min Scan# 614
Delta R.T. 0.012 min
Lab File: I44554.D
Acq: 28 Dec 2016 5:24 pm

Tgt Ion: 96 Resp: 8923

Ion	Ratio	Lower	Upper
96	100		
61	160.6	130.3	190.3
98	62.7	34.6	94.6
63	57.7	19.8	79.8

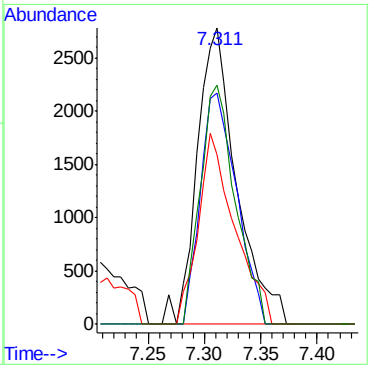


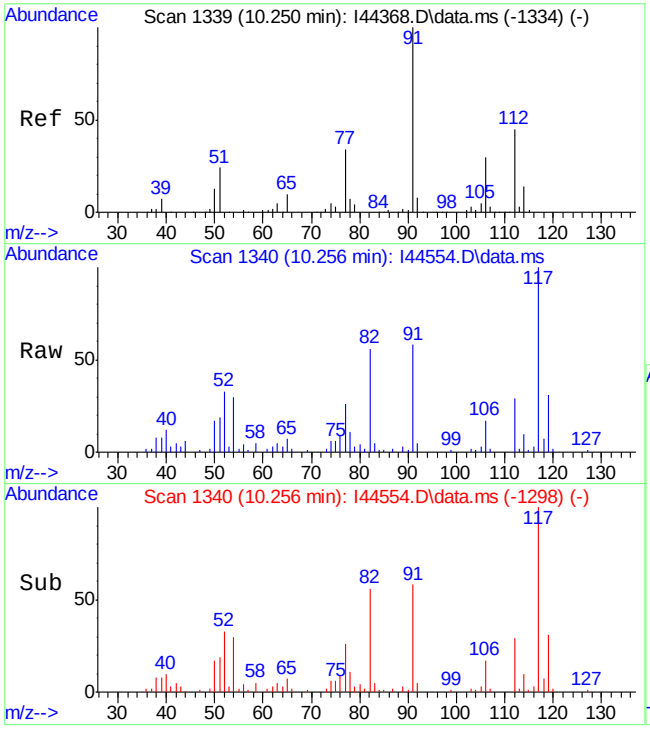


#48
Trichloroethene
Concen: 0.72 ug/L
RT: 7.311 min Scan# 857
Delta R.T. 0.018 min
Lab File: I44554.D
Acq: 28 Dec 2016 5:24 pm

Tgt Ion: 95 Resp: 6762

Ion	Ratio	Lower	Upper
95	100		
130	78.0	60.9	120.9
97	57.1	36.2	96.2
132	80.7	53.2	113.2

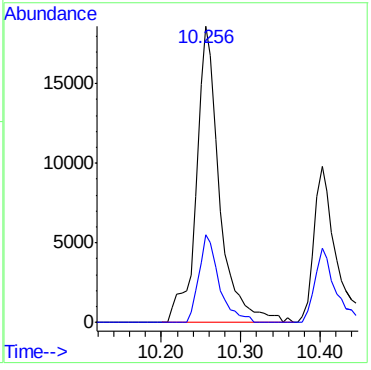


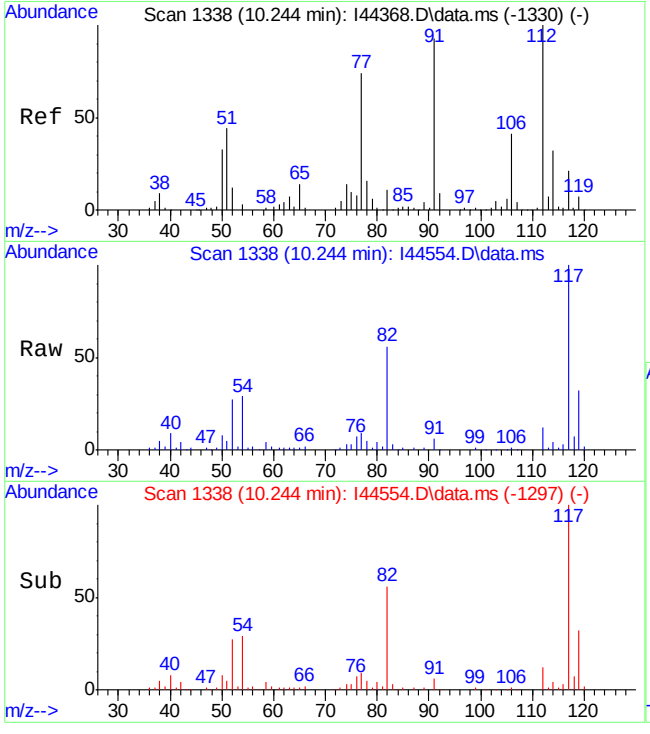


#70
Ethylbenzene
Concen: 1.06 ug/L
RT: 10.256 min Scan# 1340
Delta R.T. 0.006 min
Lab File: I44554.D
Acq: 28 Dec 2016 5:24 pm

Tgt Ion: 91 Resp: 37459

Ion	Ratio	Lower	Upper
91	100		
106	29.5	0.0	59.5

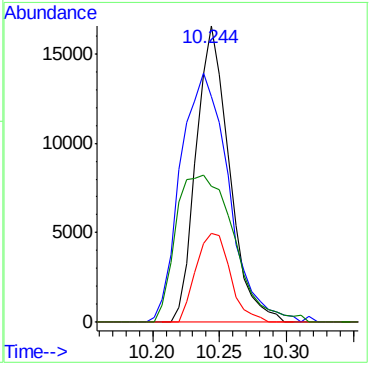


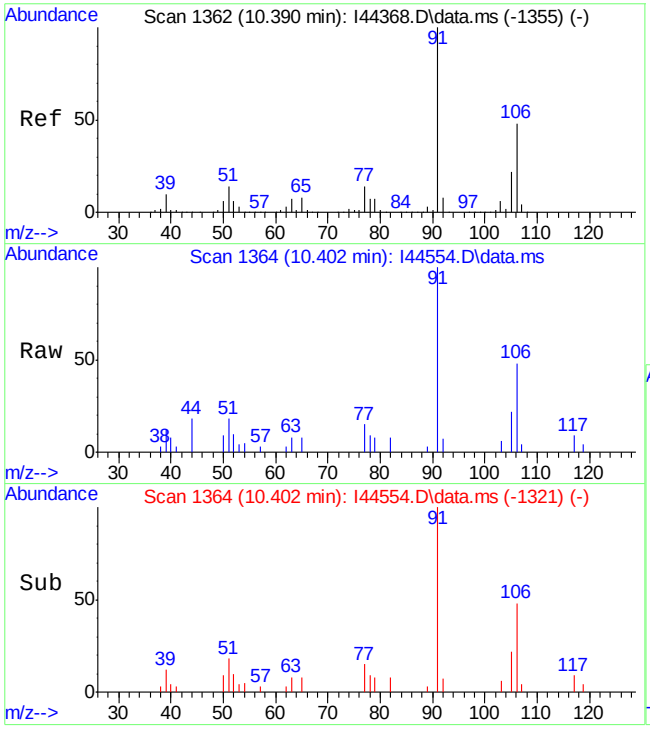


#71
Chlorobenzene
Concen: 1.29 ug/L
RT: 10.244 min Scan# 1338
Delta R.T. 0.000 min
Lab File: I44554.D
Acq: 28 Dec 2016 5:24 pm

Tgt Ion:112 Resp: 28469

Ion	Ratio	Lower	Upper
112	100		
77	74.2	44.5	104.5
114	30.0	1.8	61.8
51	43.9	14.4	74.4

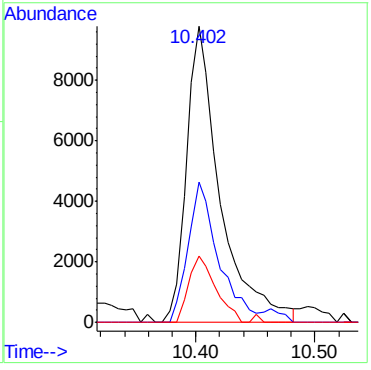


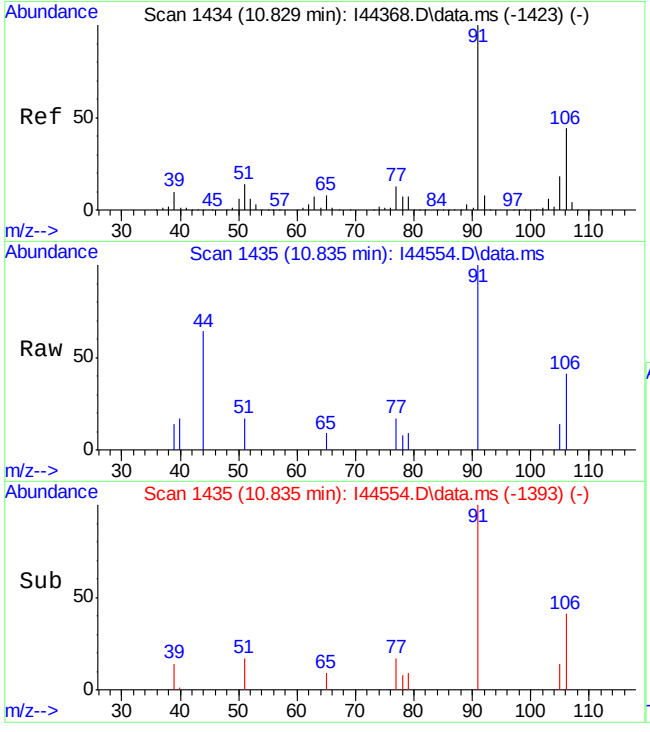


#73
m,p-Xylene
Concen: 0.71 ug/L
RT: 10.402 min Scan# 1364
Delta R.T. 0.012 min
Lab File: I44554.D
Acq: 28 Dec 2016 5:24 pm

Tgt Ion: 91 Resp: 19159

Ion	Ratio	Lower	Upper
91	100		
106	47.5	18.0	78.0
105	22.3	0.0	51.6

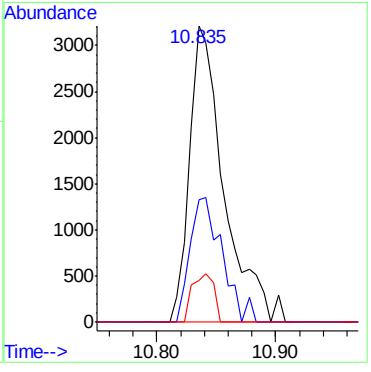




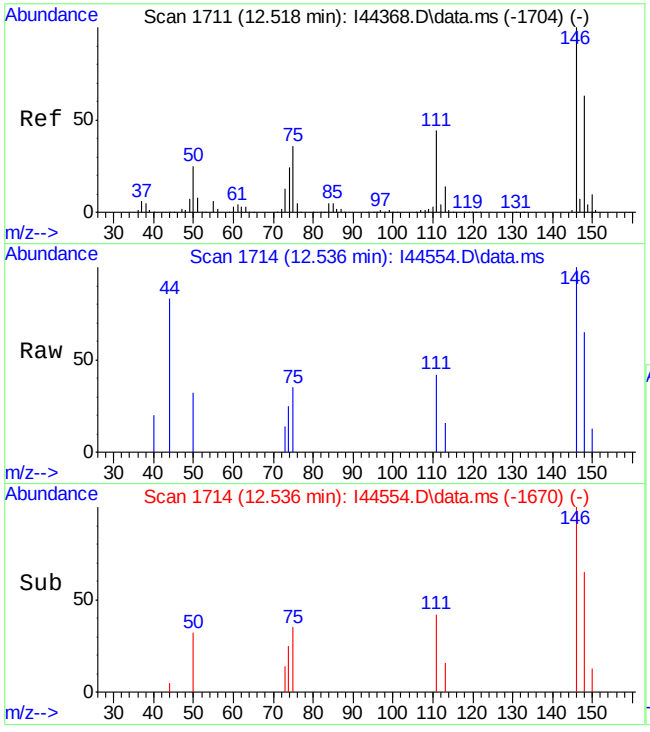
#74
o-Xylene
Concen: 0.23 ug/L
RT: 10.835 min Scan# 1435
Delta R.T. 0.006 min
Lab File: I44554.D
Acq: 28 Dec 2016 5:24 pm

Tgt Ion: 91 Resp: 6476

Ion	Ratio	Lower	Upper
91	100		
106	41.4	14.5	74.5
105	14.0	0.0	48.0



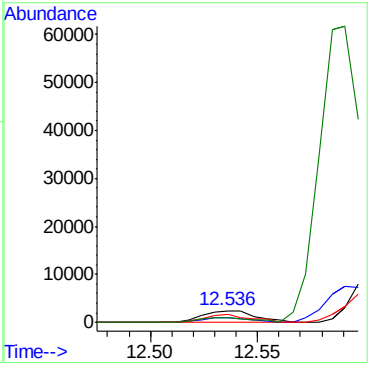
SGS ACCUTEST FA39742

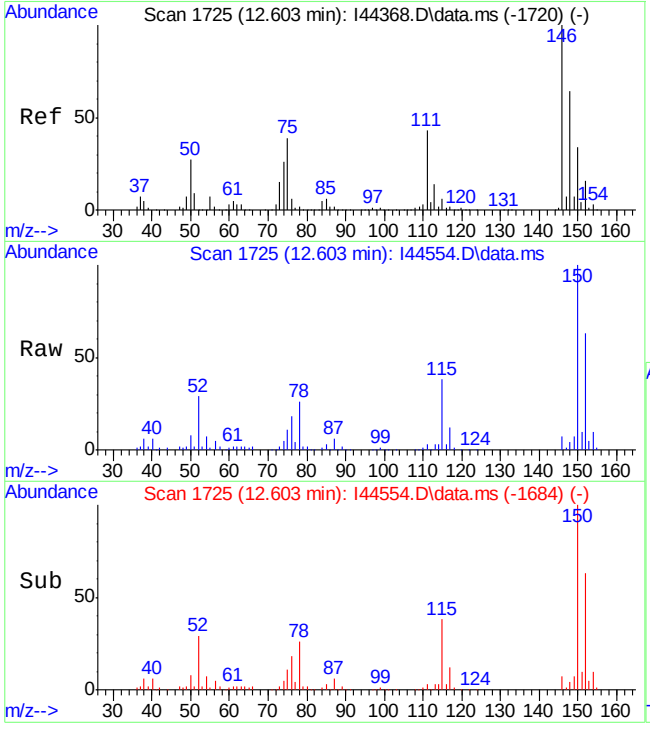


#96
1,3-Dichlorobenzene
Concen: 0.27 ug/L
RT: 12.536 min Scan# 1714
Delta R.T. 0.018 min
Lab File: I44554.D
Acq: 28 Dec 2016 5:24 pm

Tgt Ion:146 Resp: 4085

Ion	Ratio	Lower	Upper
146	100		
111	42.0	13.6	73.6
148	64.5	33.5	93.5
75	35.4	5.5	65.5

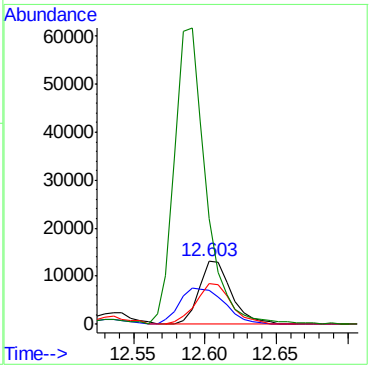




#97
1,4-Dichlorobenzene
Concen: 1.30 ug/L m
RT: 12.603 min Scan# 1725
Delta R.T. 0.000 min
Lab File: I44554.D
Acq: 28 Dec 2016 5:24 pm

Tgt Ion:146 Resp: 20421

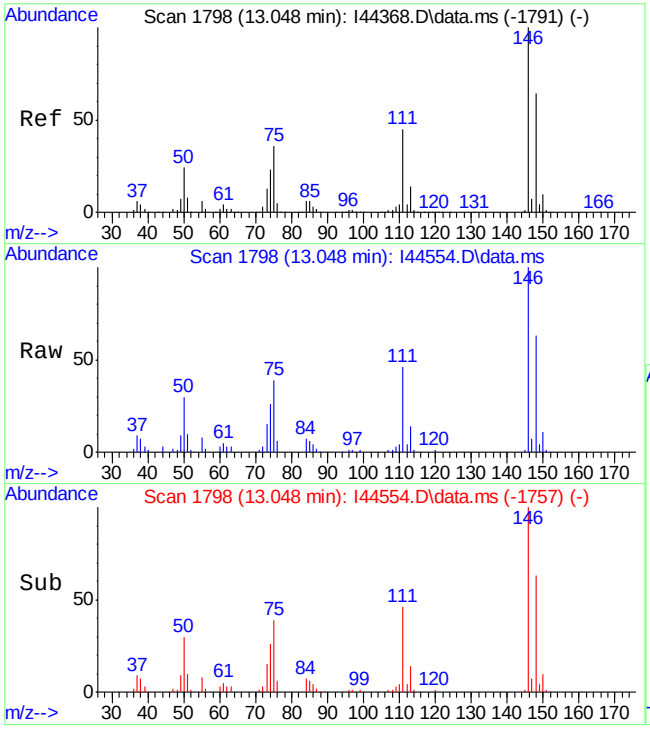
Ion	Ratio	Lower	Upper
146	100		
111	52.8	13.3	73.3
148	63.9	34.2	94.2
75	167.8	11.6	71.6#



7.1.8

7

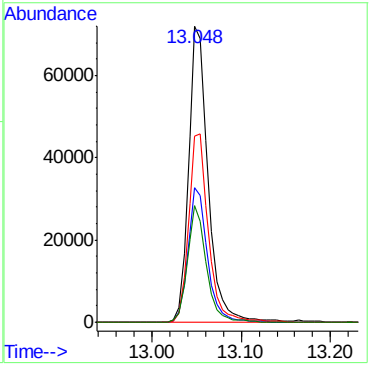
SGS ACCUTEST FA39742



#100
1,2-Dichlorobenzene
Concen: 7.60 ug/L
RT: 13.048 min Scan# 1798
Delta R.T. 0.000 min
Lab File: I44554.D
Acq: 28 Dec 2016 5:24 pm

Tgt Ion:146 Resp: 110358

Ion	Ratio	Lower	Upper
146	100		
111	45.5	14.7	74.7
148	63.0	34.0	94.0
75	39.4	5.6	65.6



7.1.8

7

Manual Integration Approval Summary

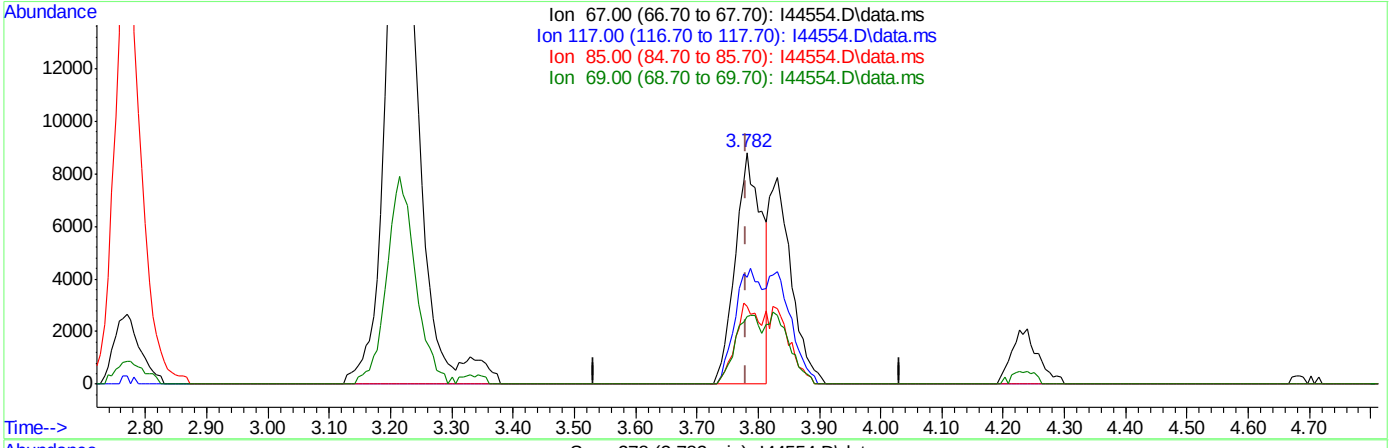
Sample Number:	FA39742-8	**Method:**	SW846 8260C
Lab FileID:	I44554.D	**Analyst approved:**	12/29/16 08:57 Wilfredo Vazquez
Injection Time:	12/28/16 17:24	**Supervisor approved:**	12/30/16 16:26 Juan Garcia

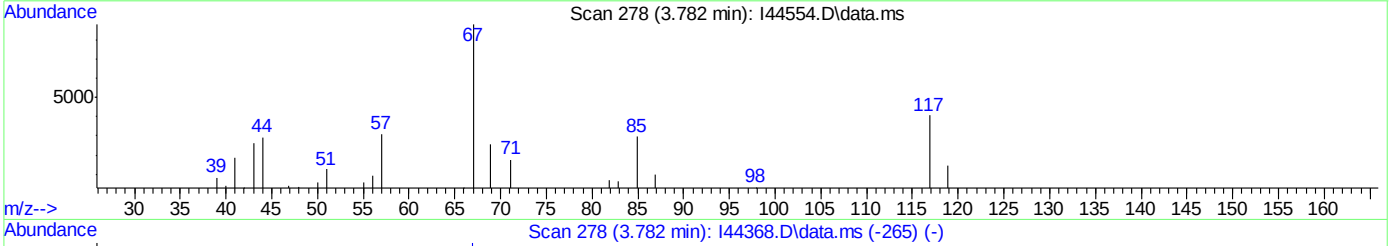
Parameter	CAS	Sig#	R.T. (min.)	Reason
1,2-Dichlorotrifluoroethane	354-23-4		3.78	Split peak
1,4-Dichlorobenzene	106-46-7		12.60	Missed peak

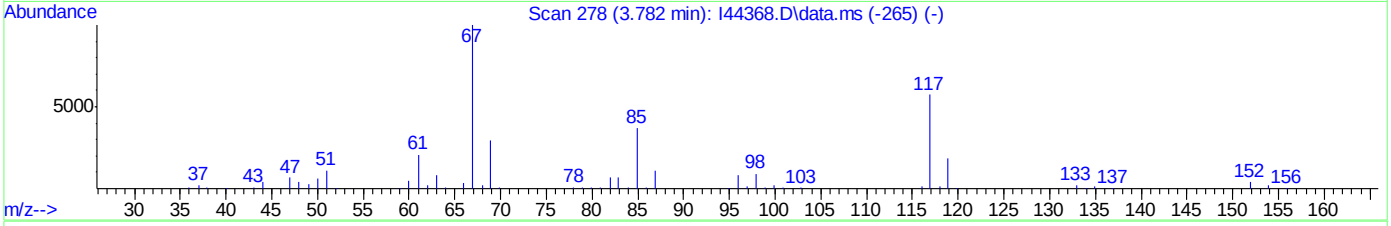
Quantitation Report (Qedit)

Data Path : C:\msdchem\2\DATA\122816\
Data File : I44554.D
Acq On : 28 Dec 2016 5:24 pm
Operator : WILFREDO
Sample : FA39742-8 MA Inst : MSVOA16
Misc : MS35953,VI1223,,,,,
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Dec 29 08:02:07 2016
Quant Method : C:\msdchem\2\METHODS\I-DEC22.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Dec 23 09:02:35 2016
Response via : Initial Calibration







TIC: I44554.D\data.ms

(10) 1,2-Dichlorotrifluoroethane

3.782min (+0.000) 2.30ug/L

response 26115

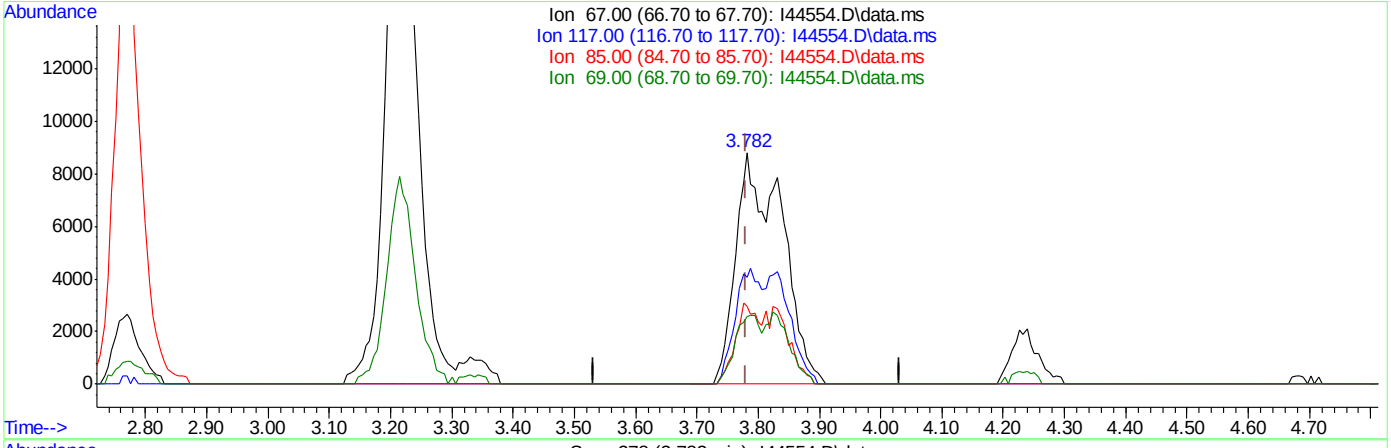
Ion	Exp%	Act%
67.00	100	100
117.00	57.70	46.21
85.00	36.80	33.55
69.00	29.70	28.99

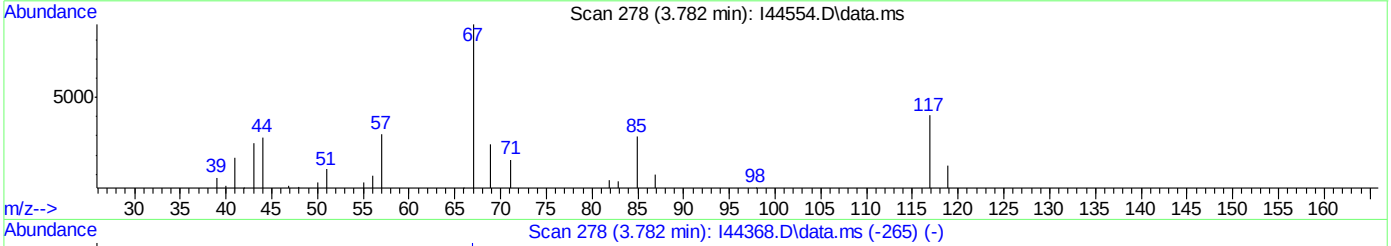
SGS ACCUTEST FA39742

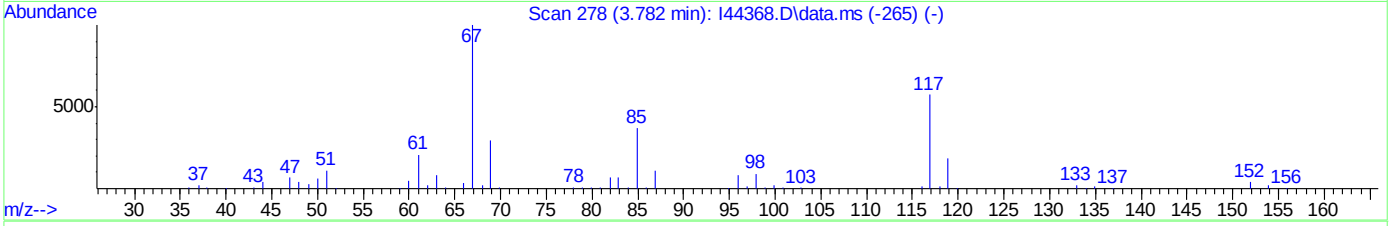
Quantitation Report (Qedit)

Data Path : C:\msdchem\2\DATA\122816\
Data File : I44554.D
Acq On : 28 Dec 2016 5:24 pm
Operator : WILFREDO
Sample : FA39742-8 MA Inst : MSVOA16
Misc : MS35953,VI1223,,,,,
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Dec 29 08:02:07 2016
Quant Method : C:\msdchem\2\METHODS\I-DEC22.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Dec 23 09:02:35 2016
Response via : Initial Calibration







TIC: I44554.D\data.ms

(10) 1,2-Dichlorotrifluoroethane

3.782min (+0.000) 4.05ug/L m

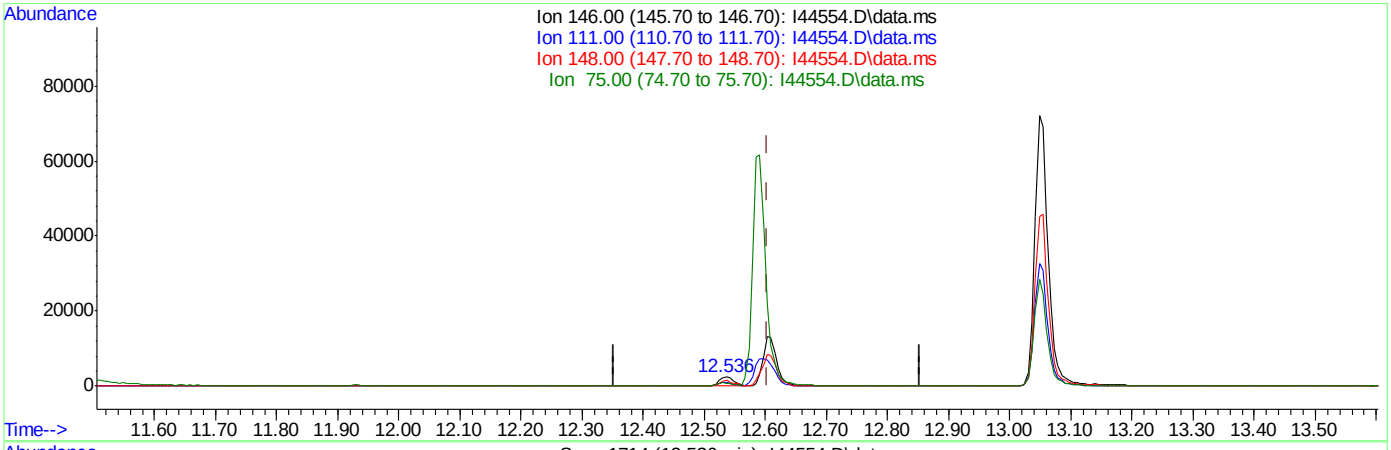
response 45975

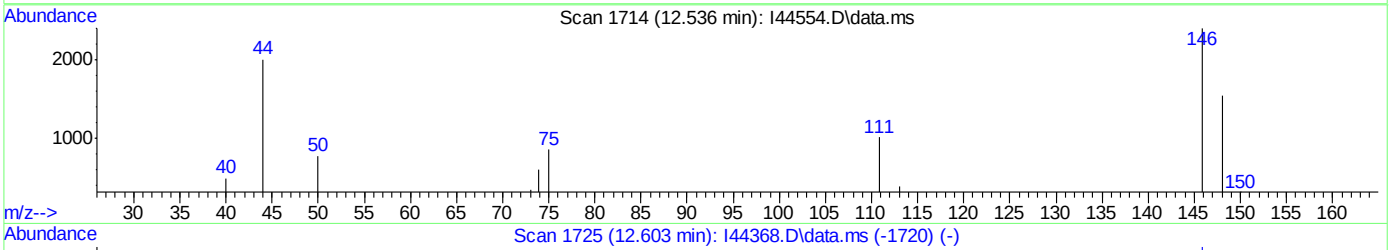
Ion	Exp%	Act%
67.00	100	100
117.00	57.70	46.21
85.00	36.80	33.55
69.00	29.70	28.99

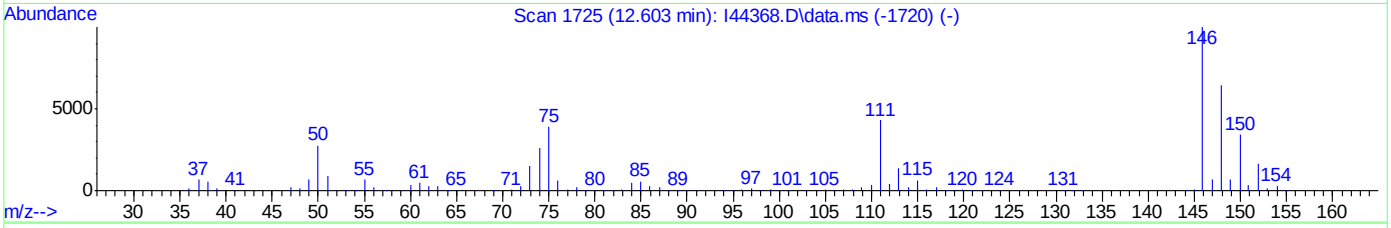
Quantitation Report (Qedit)

Data Path : C:\msdchem\2\DATA\122816\
Data File : I44554.D
Acq On : 28 Dec 2016 5:24 pm
Operator : WILFREDO
Sample : FA39742-8 MA Inst : MSVOA16
Misc : MS35953,VI1223,,,,,
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Dec 29 08:02:07 2016
Quant Method : C:\msdchem\2\METHODS\I-DEC22.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Dec 23 09:02:35 2016
Response via : Initial Calibration







TIC: I44554.D\data.ms

(97) 1,4-Dichlorobenzene

12.536min (-0.067) 0.26ug/L

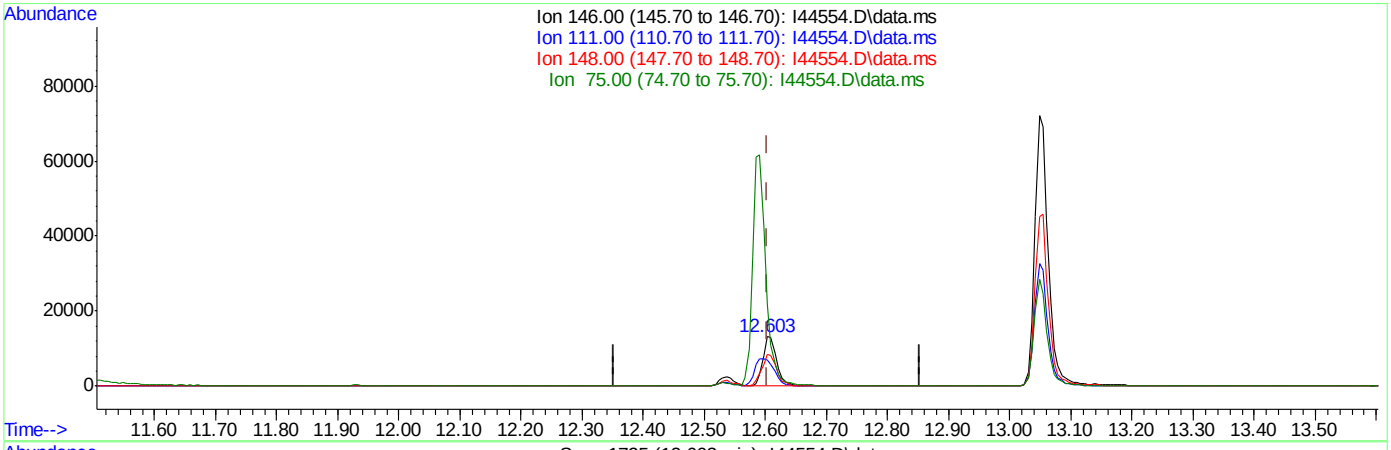
response 4085

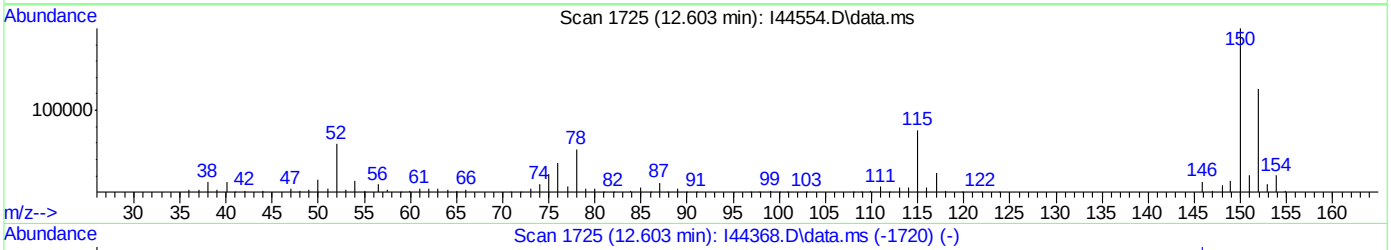
Ion	Exp%	Act%
146.00	100	100
111.00	43.30	41.98
148.00	64.20	64.55
75.00	41.60	35.41

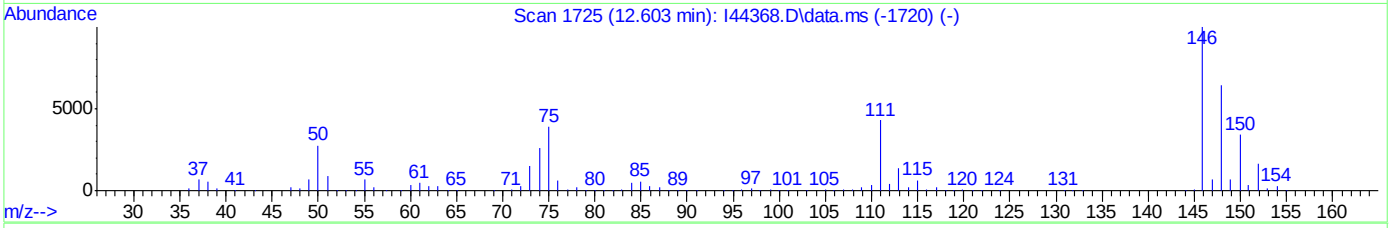
Quantitation Report (Qedit)

Data Path : C:\msdchem\2\DATA\122816\
Data File : I44554.D
Acq On : 28 Dec 2016 5:24 pm
Operator : WILFREDO
Sample : FA39742-8 MA Inst : MSVOA16
Misc : MS35953,VI1223,,,,,
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Dec 29 08:02:07 2016
Quant Method : C:\msdchem\2\METHODS\I-DEC22.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Dec 23 09:02:35 2016
Response via : Initial Calibration







TIC: I44554.D\data.ms

(97) 1,4-Dichlorobenzene

12.603min (+0.000) 1.30ug/L m

response 20421

Ion	Exp%	Act%
146.00	100	100
111.00	43.30	52.84
148.00	64.20	63.93
75.00	41.60	167.85#

SGS ACCUTEST FA39742

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\122816\
Data File : I44555.D
Acq On : 28 Dec 2016 5:48 pm
Operator : WILFREDO
Sample : FA39742-9 MA Inst : MSVOA16
Misc : MS35953,VI1223,,,,,
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Dec 29 08:25:53 2016
Quant Method : C:\msdchem\2\METHODS\I-DEC22.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Dec 23 09:02:35 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.116	96	1654409	50.00	ug/L	0.00
56) Chlorobenzene-d5	10.226	117	1085647	50.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	12.591	152	512052	50.00	ug/L	0.00
106) Tert Butyl Alcohol-d10	4.690	65	126519	250.00	ug/L	0.00
System Monitoring Compounds						
36) Dibromofluoromethane	6.275	113	412506	49.39	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 98.78%			
46) 1,2-Dichloroethane-d4	6.830	65	627801	53.22	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 106.44%			
57) Toluene-d8	8.677	98	1541184	51.92	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 103.84%			
79) 4-Bromofluorobenzene	11.439	174	353272	47.37	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 94.74%			
Target Compounds						Qvalue
16) Methylene Chloride	4.440	49	4985	0.33	ug/L	93
58) Toluene	8.732	91	10159	0.33	ug/L	91

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

7.1.9

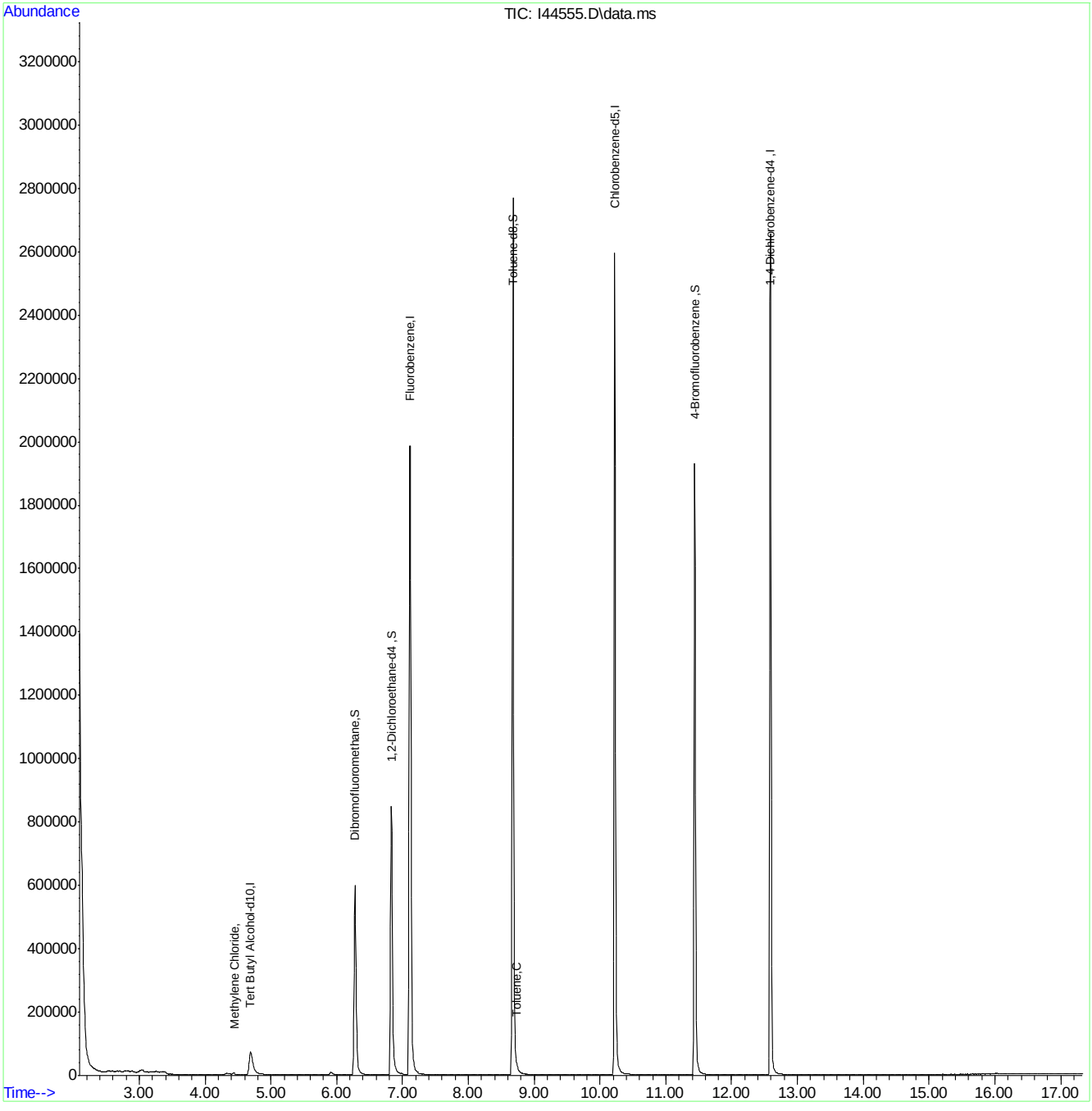
7

SGS ACCUTEST FA39742

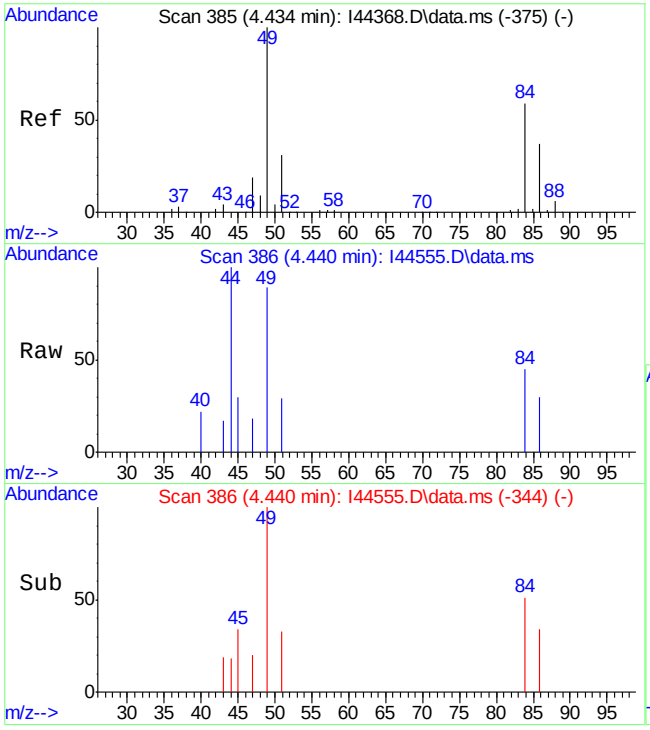
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\122816\
Data File : I44555.D
Acq On : 28 Dec 2016 5:48 pm
Operator : WILFREDO
Sample : FA39742-9 MA Inst : MSVOA16
Misc : MS35953,VI1223,,,,,
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Dec 29 08:25:53 2016
Quant Method : C:\msdchem\2\METHODS\I-DEC22.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Dec 23 09:02:35 2016
Response via : Initial Calibration



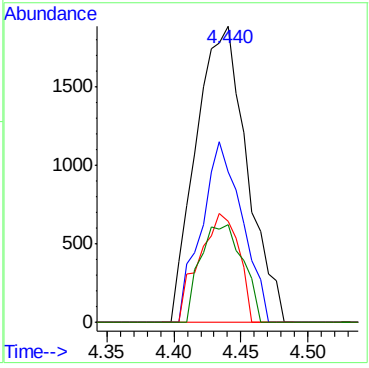
SGS ACCUTEST FA39742

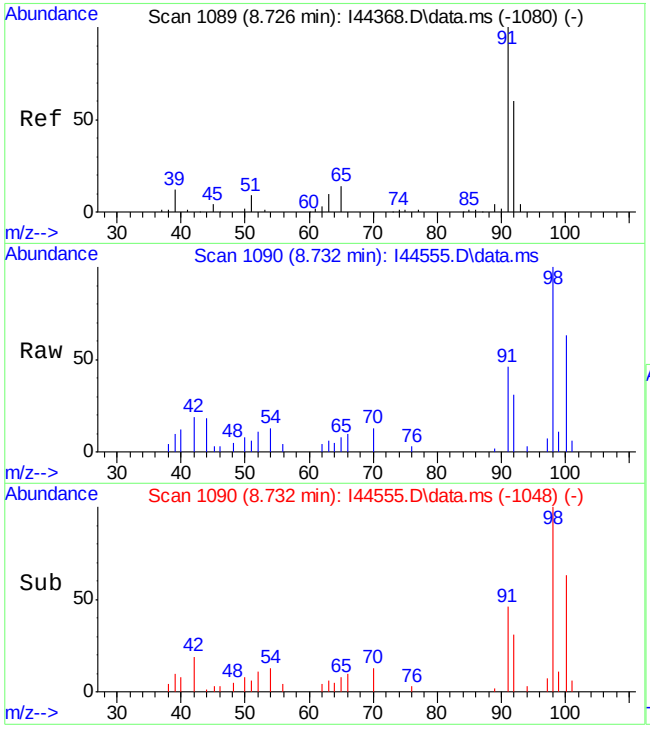


#16
Methylene Chloride
Concen: 0.33 ug/L
RT: 4.440 min Scan# 386
Delta R.T. 0.006 min
Lab File: I44555.D
Acq: 28 Dec 2016 5:48 pm

Tgt Ion: 49 Resp: 4985

Ion	Ratio	Lower	Upper
49	100		
84	50.8	28.9	88.9
86	34.1	7.2	67.2
51	33.0	1.3	61.3

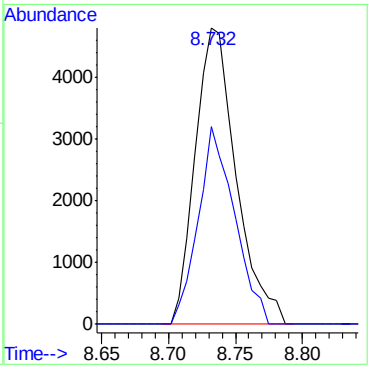




#58
Toluene
Concen: 0.33 ug/L
RT: 8.732 min Scan# 1090
Delta R.T. 0.006 min
Lab File: I44555.D
Acq: 28 Dec 2016 5:48 pm

Tgt Ion: 91 Resp: 10159

Ion	Ratio	Lower	Upper
91	100		
92	66.7	29.7	89.7



Manual Integrations APPROVED (compounds with "m" flag)
Juan Garcia
12/30/16 16:26

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\122816\
Data File : I44556.D
Acq On : 28 Dec 2016 6:11 pm
Operator : WILFREDO
Sample : FA39742-10 MA Inst : MSVOA16
Misc : MS35953,VI1223,,,,,
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Dec 29 08:26:46 2016
Quant Method : C:\msdchem\2\METHODS\I-DEC22.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Dec 23 09:02:35 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.116	96	1641817	50.00	ug/L	0.00
56) Chlorobenzene-d5	10.225	117	1074706	50.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	12.591	152	500356	50.00	ug/L	0.00
106) Tert Butyl Alcohol-d10	4.690	65	124261	250.00	ug/L	0.00
System Monitoring Compounds						
36) Dibromofluoromethane	6.275	113	410838	49.57	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 99.14%			
46) 1,2-Dichloroethane-d4	6.830	65	630919	53.90	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 107.80%			
57) Toluene-d8	8.677	98	1562245	53.16	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 106.32%			
79) 4-Bromofluorobenzene	11.439	174	365541	50.16	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 100.32%			
Target Compounds						Qvalue
9) Ethyl Ether	3.587	59	68053	7.07	ug/L	92
10) 1,2-Dichlorotrifluoroe...	3.782	67	159264m	14.33	ug/L	
12) Freon 113	3.897	101	41472	4.80	ug/L	95
19) trans-1,2-Dichloroethene	4.623	61	4068	0.27	ug/L	95
21) Methyl Tert Butyl Ether	4.708	73	32408	1.42	ug/L #	62
23) Di-isopropyl ether	5.092	45	9878	0.28	ug/L	81
32) Cyclohexane	6.062	56	9099	0.47	ug/L	86
71) Chlorobenzene	10.244	112	5970	0.28	ug/L	73
112) 1,4-Dioxane	8.043	88	550399	10132.19	ug/L	93

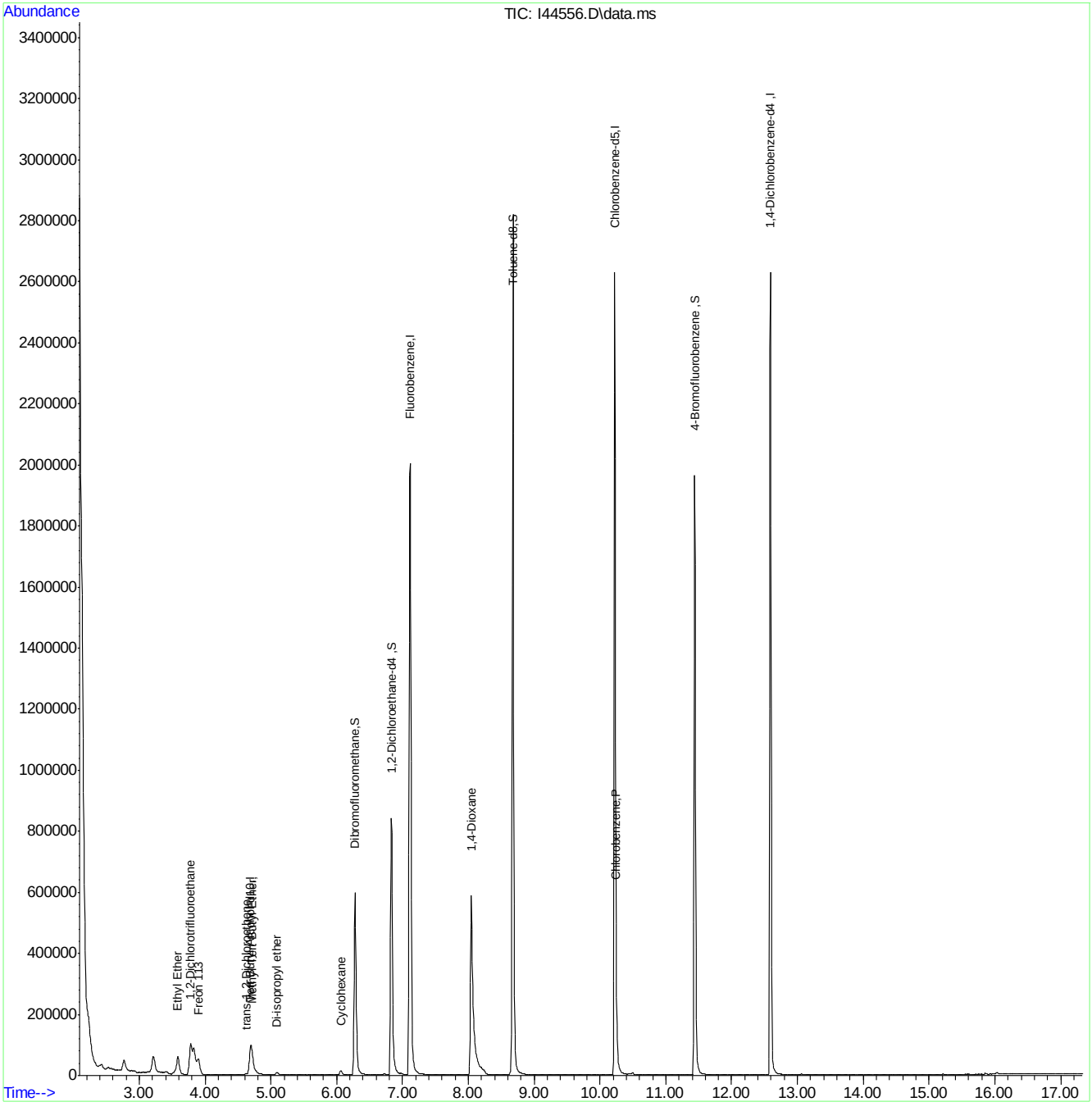
(#) = qualifier out of range (m) = manual integration (+) = signals summed

7.1.10
7

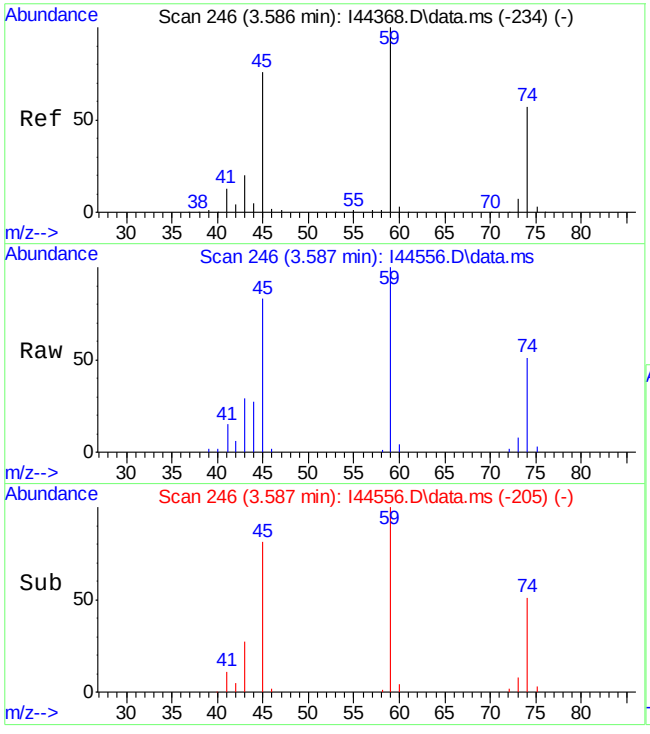
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\122816\
Data File : I44556.D
Acq On : 28 Dec 2016 6:11 pm
Operator : WILFREDO
Sample : FA39742-10 MA Inst : MSVOA16
Misc : MS35953,VI1223,,,,,
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Dec 29 08:26:46 2016
Quant Method : C:\msdchem\2\METHODS\I-DEC22.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Dec 23 09:02:35 2016
Response via : Initial Calibration



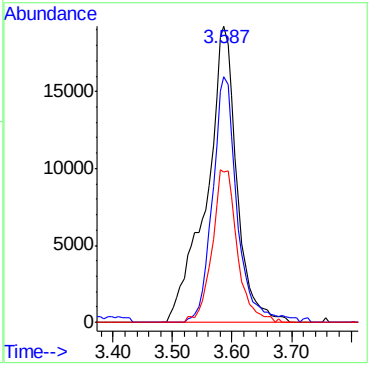
SGS ACCUTEST FA39742

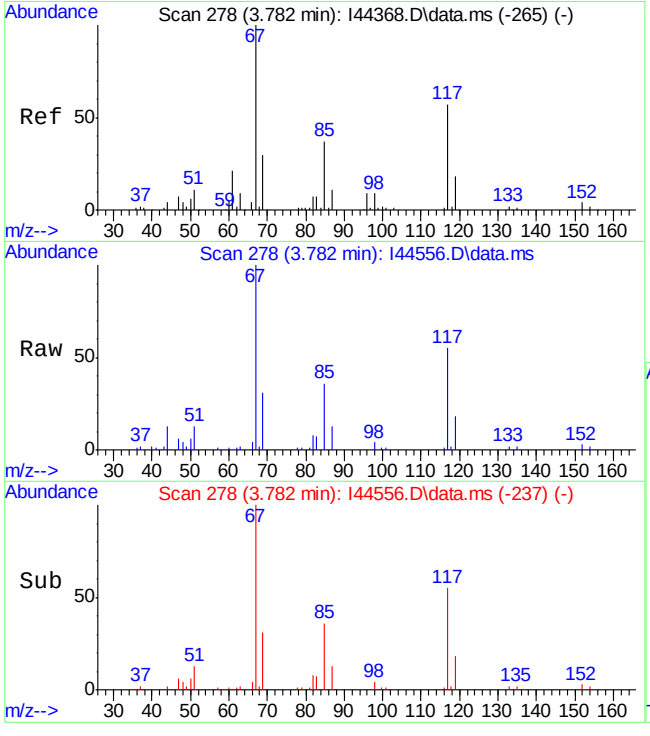


#9
Ethyl Ether
Concen: 7.07 ug/L
RT: 3.587 min Scan# 246
Delta R.T. 0.000 min
Lab File: I44556.D
Acq: 28 Dec 2016 6:11 pm

Tgt Ion: 59 Resp: 68053

Ion	Ratio	Lower	Upper
59	100		
45	83.1	56.1	96.1
74	50.6	36.6	76.6

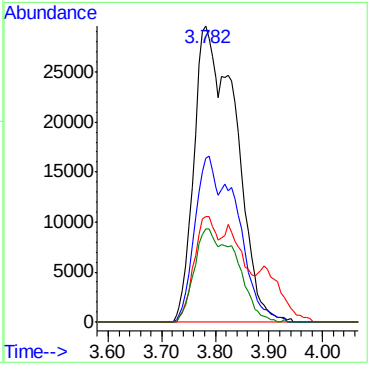


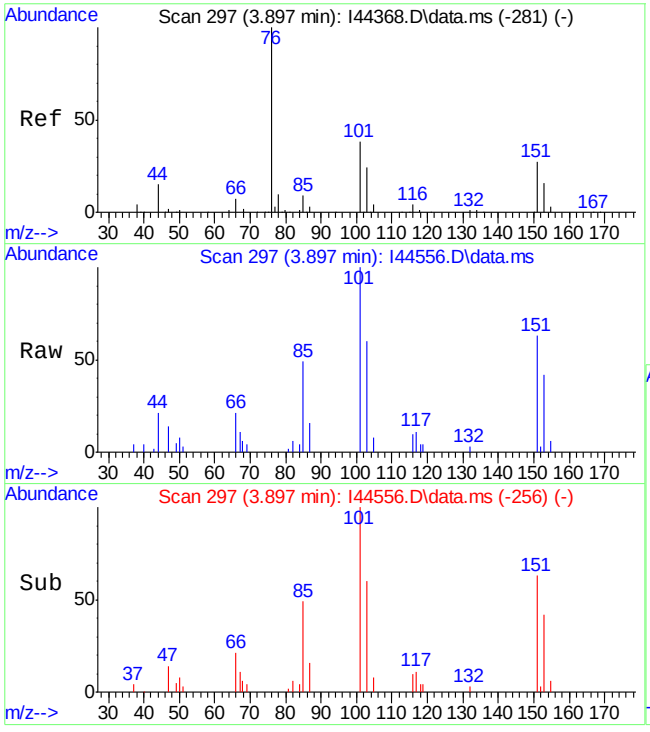


#10
1,2-Dichlorotrifluoroethane
Concen: 14.33 ug/L m
RT: 3.782 min Scan# 278
Delta R.T. 0.000 min
Lab File: I44556.D
Acq: 28 Dec 2016 6:11 pm

Tgt Ion: 67 Resp: 159264

Ion	Ratio	Lower	Upper
67	100		
117	55.5	37.7	77.7
85	35.7	16.8	56.8
69	31.5	9.7	49.7

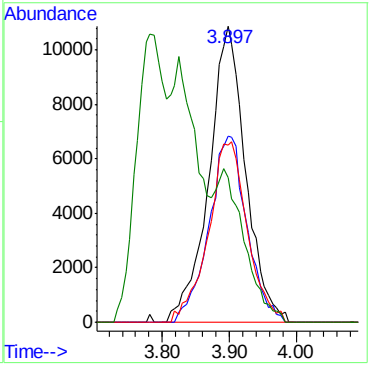


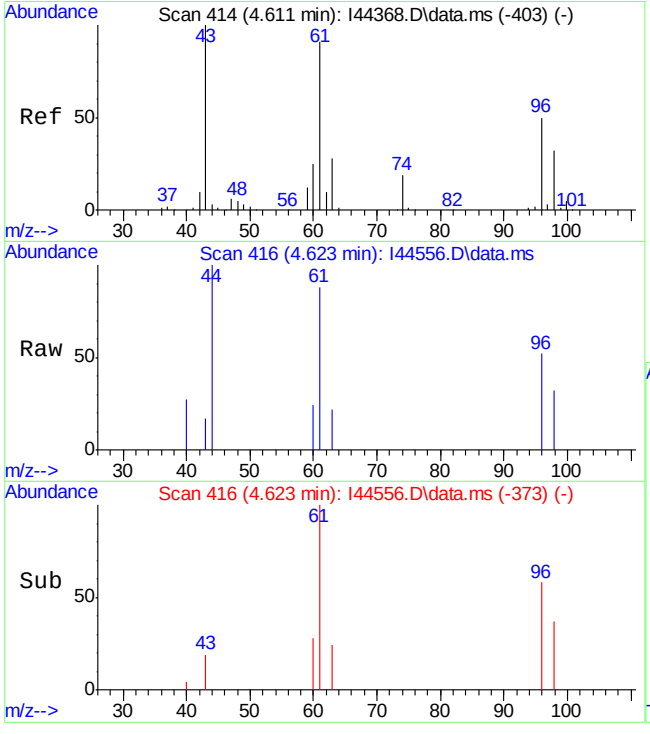


#12
Freon 113
Concen: 4.80 ug/L
RT: 3.897 min Scan# 297
Delta R.T. 0.000 min
Lab File: I44556.D
Acq: 28 Dec 2016 6:11 pm

Tgt Ion:101 Resp: 41472

Ion	Ratio	Lower	Upper
101	100		
151	63.0	48.6	88.6
103	60.0	43.2	83.2
85	48.7	26.6	66.6

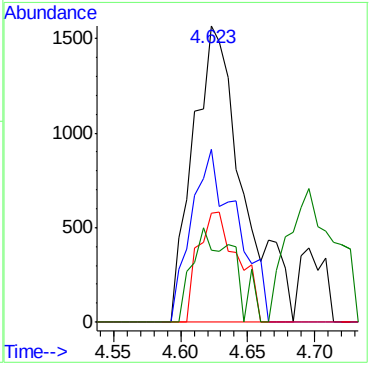


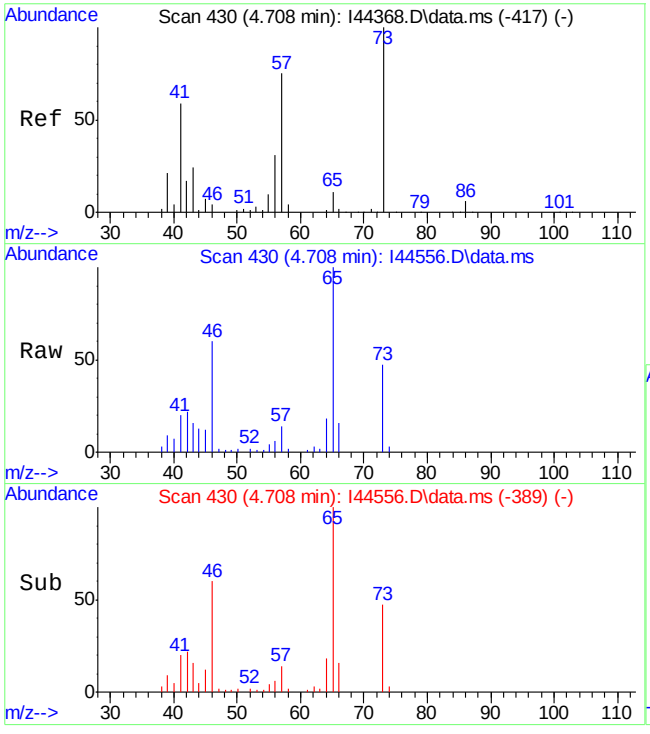


#19
trans-1,2-Dichloroethene
Concen: 0.27 ug/L
RT: 4.623 min Scan# 416
Delta R.T. 0.012 min
Lab File: I44556.D
Acq: 28 Dec 2016 6:11 pm

Tgt Ion: 61 Resp: 4068

Ion	Ratio	Lower	Upper
61	100		
96	58.5	25.2	85.2
98	36.7	5.8	65.8
63	24.4	0.5	60.5

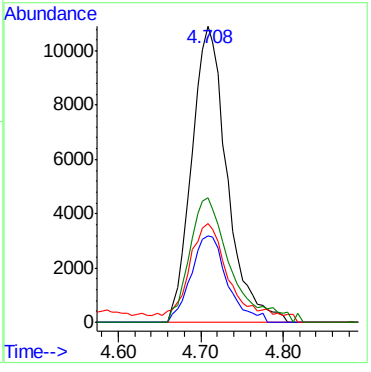


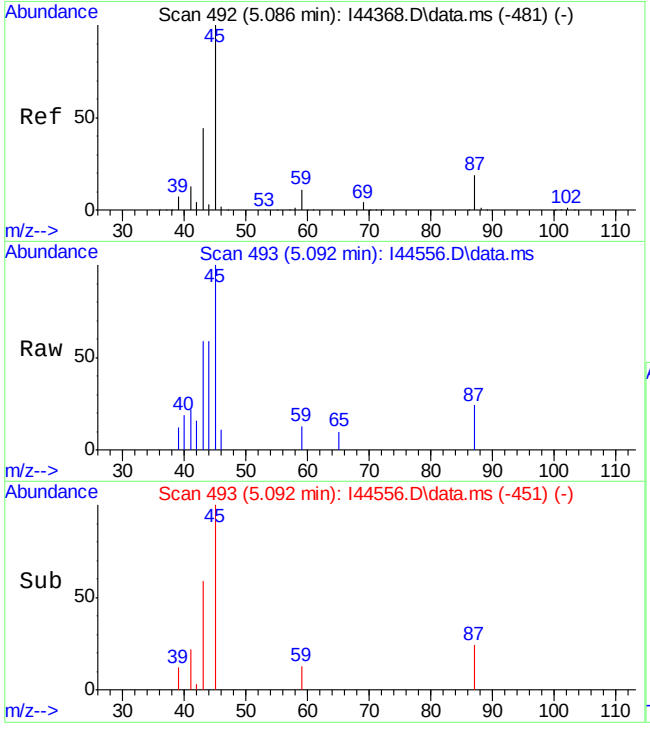


#21
Methyl Tert Butyl Ether
Concen: 1.42 ug/L
RT: 4.708 min Scan# 430
Delta R.T. 0.000 min
Lab File: I44556.D
Acq: 28 Dec 2016 6:11 pm

Tgt Ion: 73 Resp: 32408

Ion	Ratio	Lower	Upper
73	100		
57	29.3	45.0	105.0#
43	31.0	24.7	84.7
41	42.2	28.6	88.6

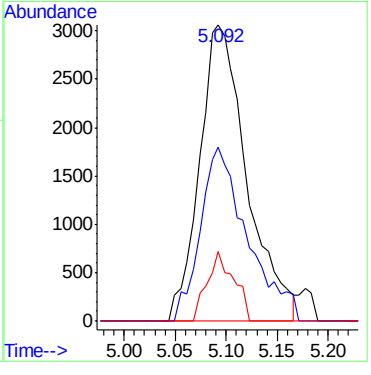


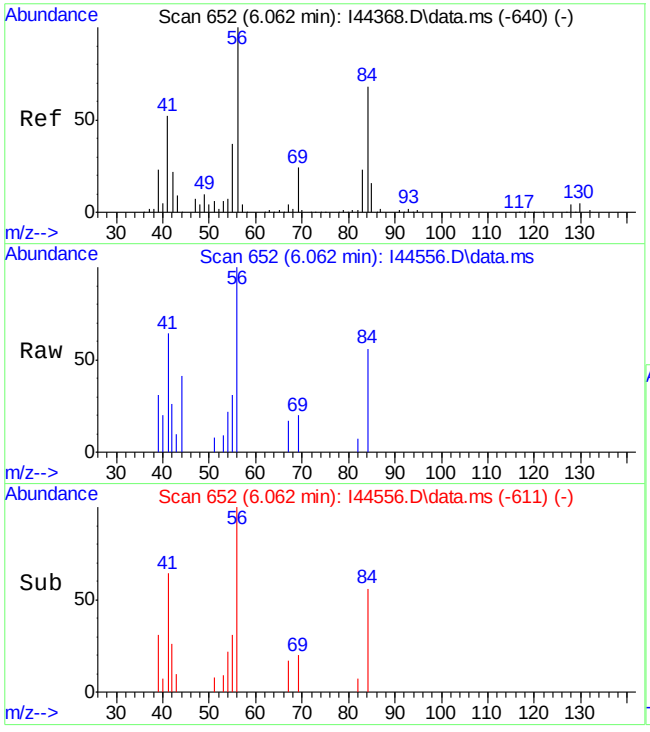


#23
Di-isopropyl ether
Concen: 0.28 ug/L
RT: 5.092 min Scan# 493
Delta R.T. 0.006 min
Lab File: I44556.D
Acq: 28 Dec 2016 6:11 pm

Tgt Ion: 45 Resp: 9878

Ion	Ratio	Lower	Upper
45	100		
43	58.8	14.4	74.4
87	23.6	0.0	48.5

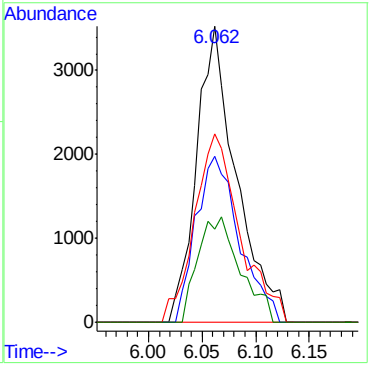


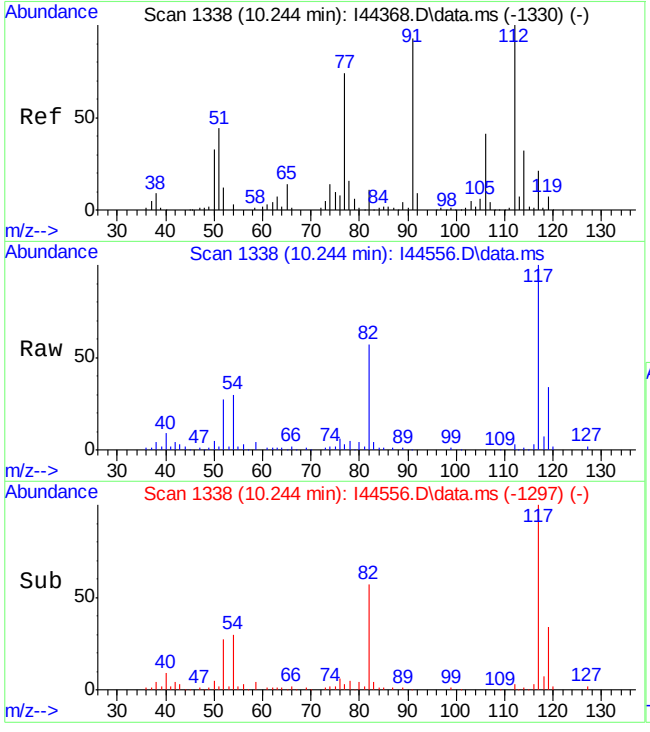


#32
Cyclohexane
Concen: 0.47 ug/L
RT: 6.062 min Scan# 652
Delta R.T. -0.000 min
Lab File: I44556.D
Acq: 28 Dec 2016 6:11 pm

Tgt Ion: 56 Resp: 9099

Ion	Ratio	Lower	Upper
56	100		
84	56.0	47.6	87.6
41	63.7	31.7	71.7
55	31.3	17.0	57.0

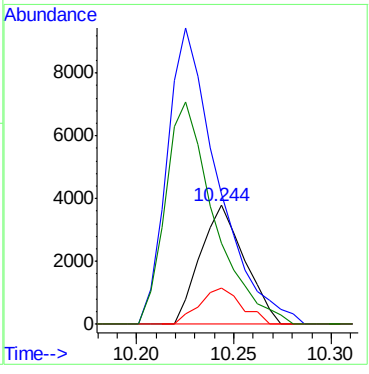


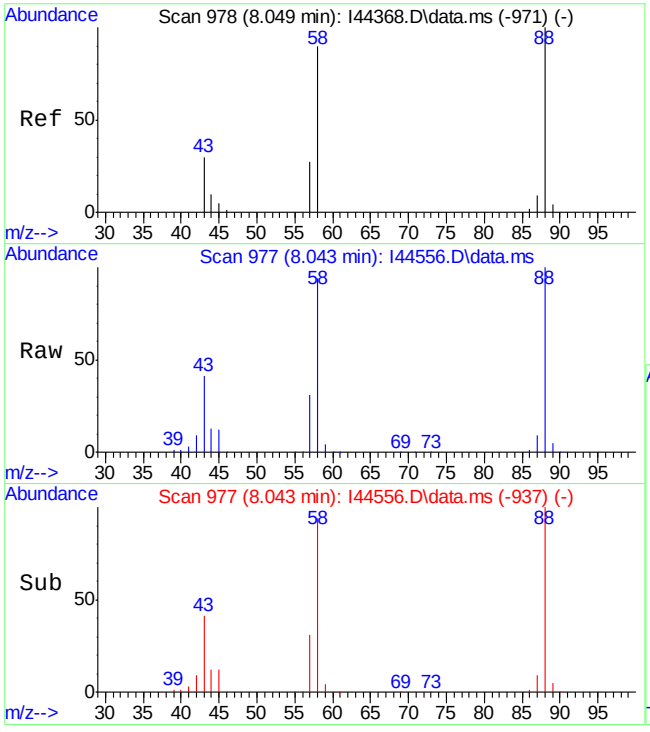


#71
Chlorobenzene
Concen: 0.28 ug/L
RT: 10.244 min Scan# 1338
Delta R.T. 0.000 min
Lab File: I44556.D
Acq: 28 Dec 2016 6:11 pm

Tgt Ion:112 Resp: 5970

Ion	Ratio	Lower	Upper
112	100		
77	100.9	44.5	104.5
114	30.0	1.8	61.8
51	67.6	14.4	74.4

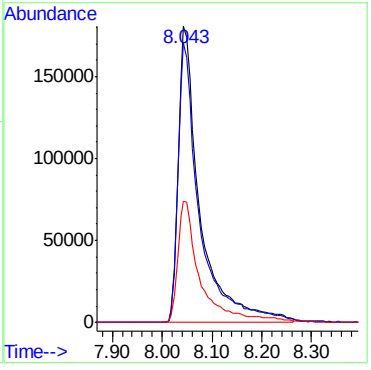




#112
1,4-Dioxane
Concen: 10132.19 ug/L
RT: 8.043 min Scan# 977
Delta R.T. -0.006 min
Lab File: I44556.D
Acq: 28 Dec 2016 6:11 pm

Tgt Ion: 88 Resp: 550399

Ion	Ratio	Lower	Upper
88	100		
58	94.2	60.1	120.1
43	41.0	3.3	63.3



Manual Integration Approval Summary

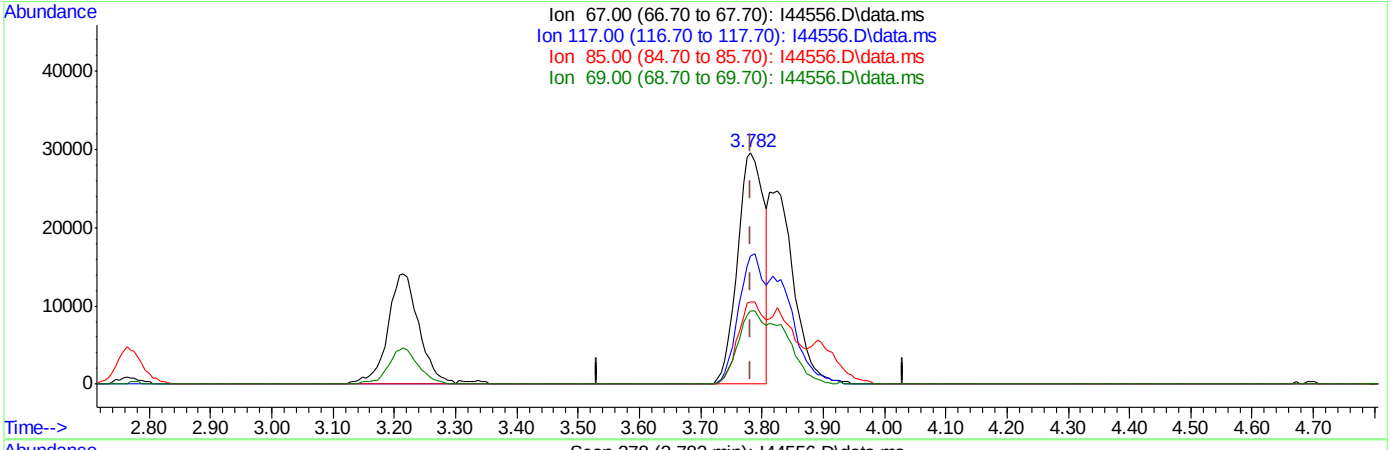
Sample Number:	FA39742-10	**Method:**	SW846 8260C
Lab FileID:	I44556.D	**Analyst approved:**	12/29/16 08:57 Wilfredo Vazquez
Injection Time:	12/28/16 18:11	**Supervisor approved:**	12/30/16 16:26 Juan Garcia

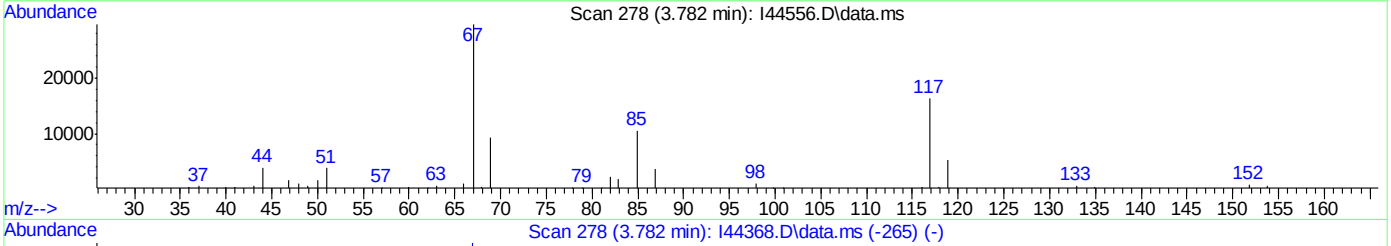
Parameter	CAS	Sig#	R.T. (min.)	Reason
1,2-Dichlorotrifluoroethane	354-23-4		3.78	Split peak

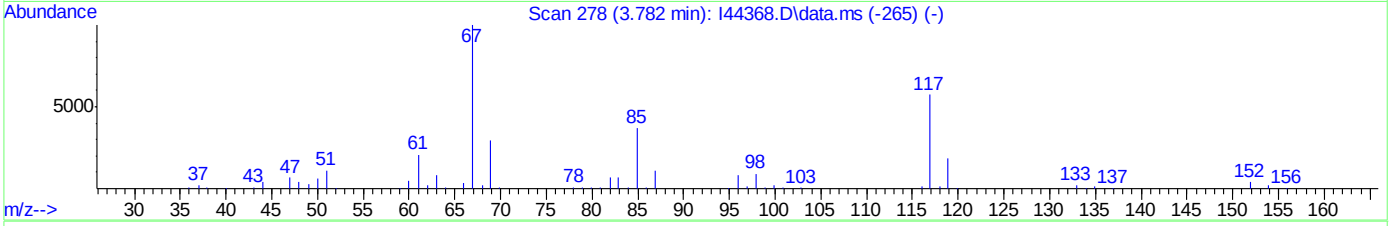
Quantitation Report (Qedit)

Data Path : C:\msdchem\2\DATA\122816\
Data File : I44556.D
Acq On : 28 Dec 2016 6:11 pm
Operator : WILFREDO
Sample : FA39742-10 MA Inst : MSVOA16
Misc : MS35953,VI1223,,,,,
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Dec 29 08:02:13 2016
Quant Method : C:\msdchem\2\METHODS\I-DEC22.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Dec 23 09:02:35 2016
Response via : Initial Calibration







TIC: I44556.D\data.ms

(10) 1,2-Dichlorotrifluoroethane

3.782min (+0.000) 7.87ug/L

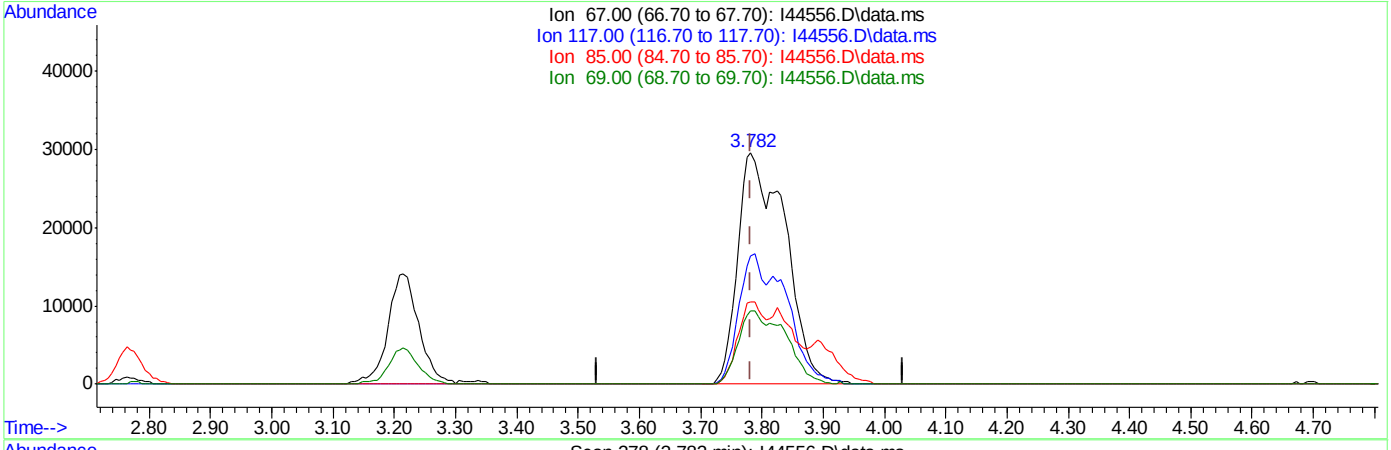
response 87422

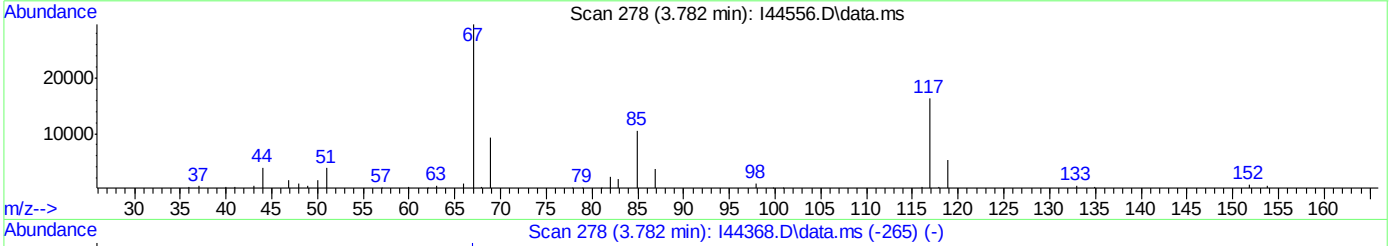
Ion	Exp%	Act%
67.00	100	100
117.00	57.70	55.47
85.00	36.80	35.70
69.00	29.70	31.45

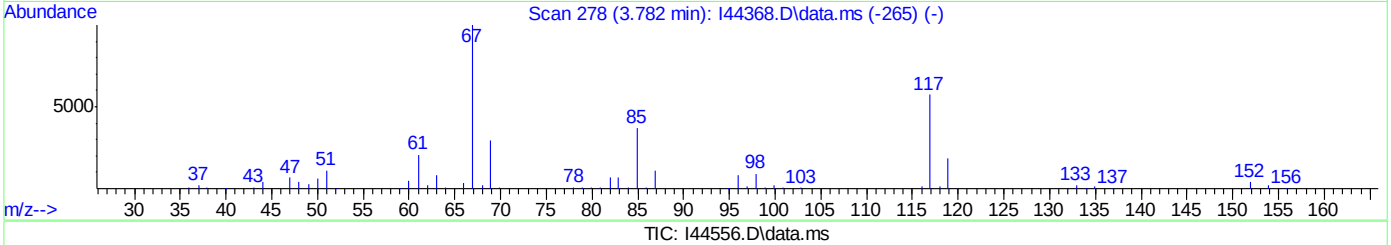
Quantitation Report (Qedit)

Data Path : C:\msdchem\2\DATA\122816\
Data File : I44556.D
Acq On : 28 Dec 2016 6:11 pm
Operator : WILFREDO
Sample : FA39742-10 MA Inst : MSVOA16
Misc : MS35953,VI1223,,,,,
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Dec 29 08:02:13 2016
Quant Method : C:\msdchem\2\METHODS\I-DEC22.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Dec 23 09:02:35 2016
Response via : Initial Calibration







TIC: I44556.D\data.ms

(10) 1,2-Dichlorotrifluoroethane

3.782min (+0.000) 14.33ug/L m

response 159264

Ion	Exp%	Act%
67.00	100	100
117.00	57.70	55.47
85.00	36.80	35.70
69.00	29.70	31.45

Manual Integrations
APPROVED
(compounds with "m" flag)
Juan Garcia
01/05/17 16:01

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\122916\
Data File : I44602.D
Acq On : 29 Dec 2016 12:50 pm
Operator : WILFREDO
Sample : FA39742-11 MA Inst : MSVOA16
Misc : MS35956,VI1227,,,,,
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Dec 30 12:36:06 2016
Quant Method : C:\msdchem\2\METHODS\I-DEC22.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Dec 23 09:02:35 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.116	96	1716680	50.00	ug/L	0.00
56) Chlorobenzene-d5	10.225	117	1148934	50.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	12.591	152	538713	50.00	ug/L	0.00
106) Tert Butyl Alcohol-d10	4.690	65	143339	250.00	ug/L	0.00
System Monitoring Compounds						
36) Dibromofluoromethane	6.275	113	427037	49.28	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 98.56%			
46) 1,2-Dichloroethane-d4	6.830	65	668080	54.59	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 109.18%			
57) Toluene-d8	8.677	98	1631783	51.94	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 103.88%			
79) 4-Bromofluorobenzene	11.439	174	392328	50.00	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 100.00%			
Target Compounds						Qvalue
9) Ethyl Ether	3.587	59	64654	6.42	ug/L	92
10) 1,2-Dichlorotrifluoroe...	3.782	67	259875m	22.36	ug/L	
12) Freon 113	3.897	101	241870	26.78	ug/L	97
19) trans-1,2-Dichloroethene	4.623	61	6122	0.39	ug/L	93
21) Methyl Tert Butyl Ether	4.702	73	18488	0.78	ug/L #	63
23) Di-isopropyl ether	5.098	45	9839	0.26	ug/L	94
32) Cyclohexane	6.062	56	9767	0.48	ug/L	89
71) Chlorobenzene	10.244	112	6138	0.27	ug/L	76
100) 1,2-Dichlorobenzene	13.054	146	3756	0.25	ug/L	85
112) 1,4-Dioxane	8.043	88	496459	7922.81	ug/L	92

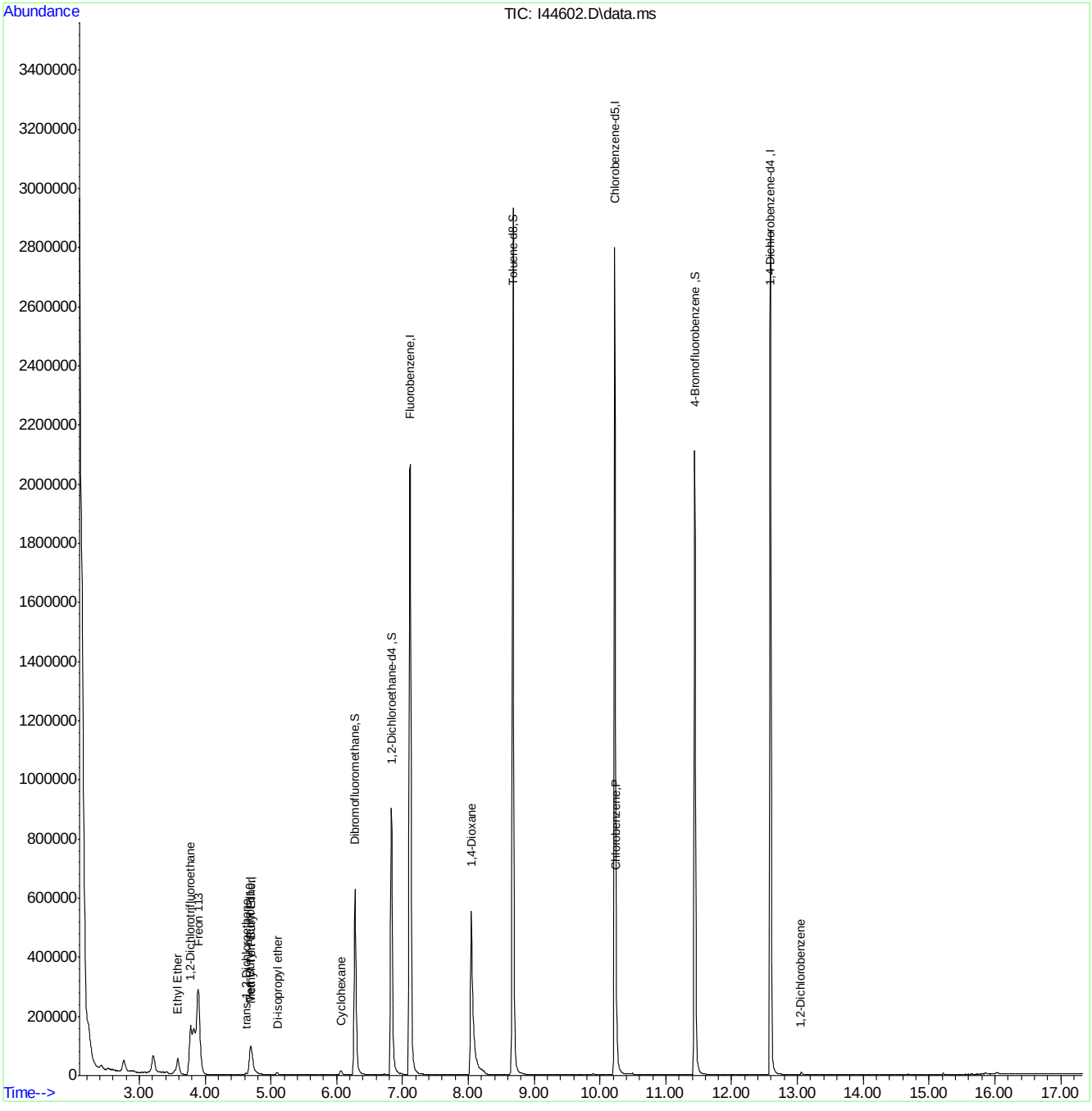
(#) = qualifier out of range (m) = manual integration (+) = signals summed

7.1.11
7

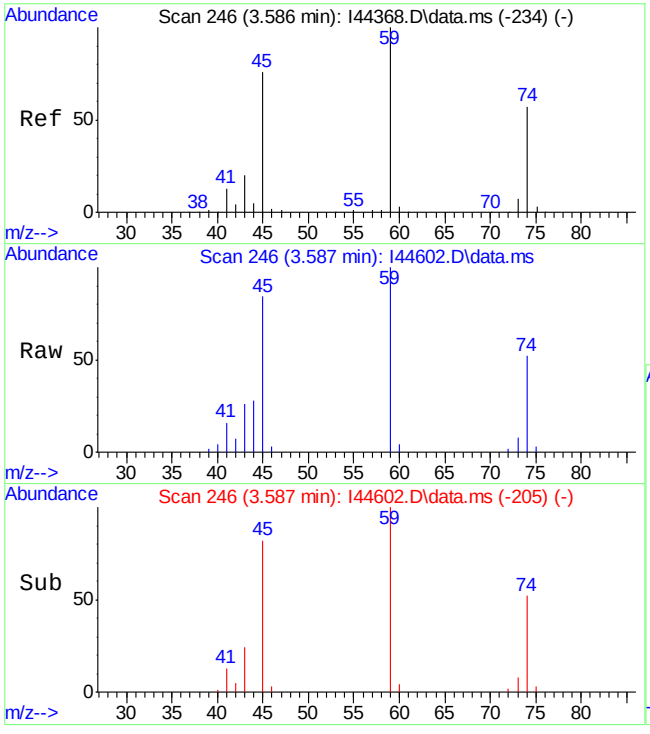
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\122916\
Data File : I44602.D
Acq On : 29 Dec 2016 12:50 pm
Operator : WILFREDO
Sample : FA39742-11 MA Inst : MSVOA16
Misc : MS35956,VI1227,,,,,
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Dec 30 12:36:06 2016
Quant Method : C:\msdchem\2\METHODS\I-DEC22.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Dec 23 09:02:35 2016
Response via : Initial Calibration



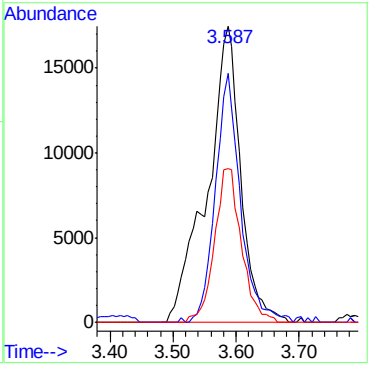
SGS ACCUTEST FA39742

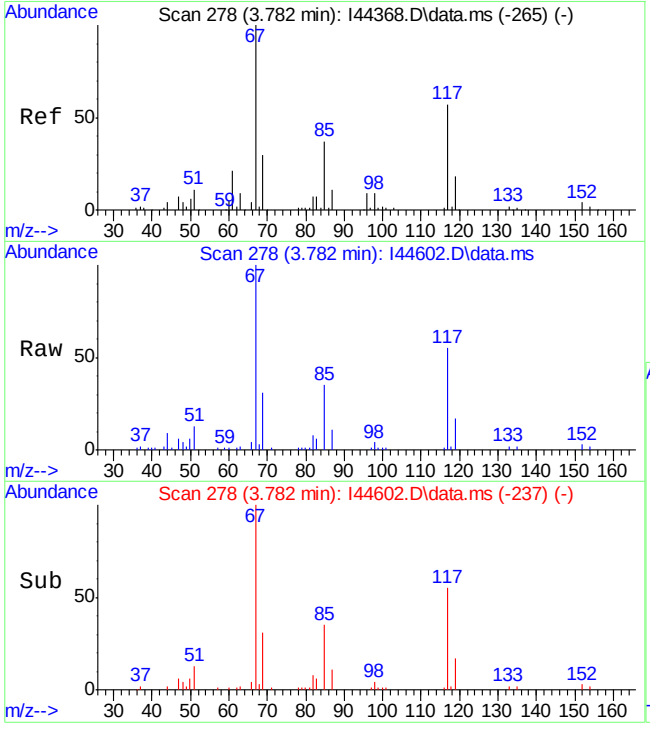


#9
Ethyl Ether
Concen: 6.42 ug/L
RT: 3.587 min Scan# 246
Delta R.T. 0.000 min
Lab File: I44602.D
Acq: 29 Dec 2016 12:50 pm

Tgt Ion: 59 Resp: 64654

Ion	Ratio	Lower	Upper
59	100		
45	83.9	56.1	96.1
74	51.8	36.6	76.6

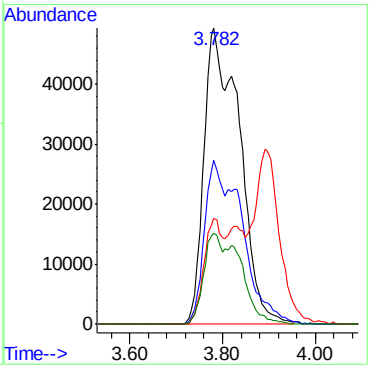


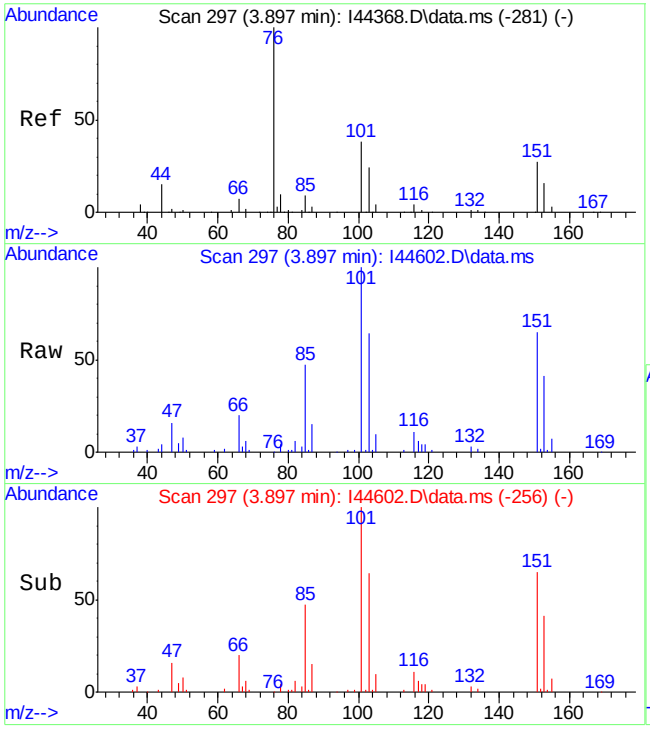


#10
1,2-Dichlorotrifluoroethane
Concen: 22.36 ug/L m
RT: 3.782 min Scan# 278
Delta R.T. 0.000 min
Lab File: I44602.D
Acq: 29 Dec 2016 12:50 pm

Tgt Ion: 67 Resp: 259875

Ion	Ratio	Lower	Upper
67	100		
117	55.3	37.7	77.7
85	35.5	16.8	56.8
69	30.9	9.7	49.7

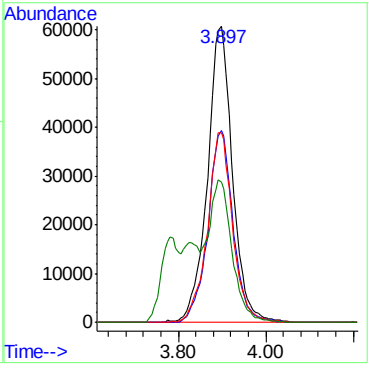


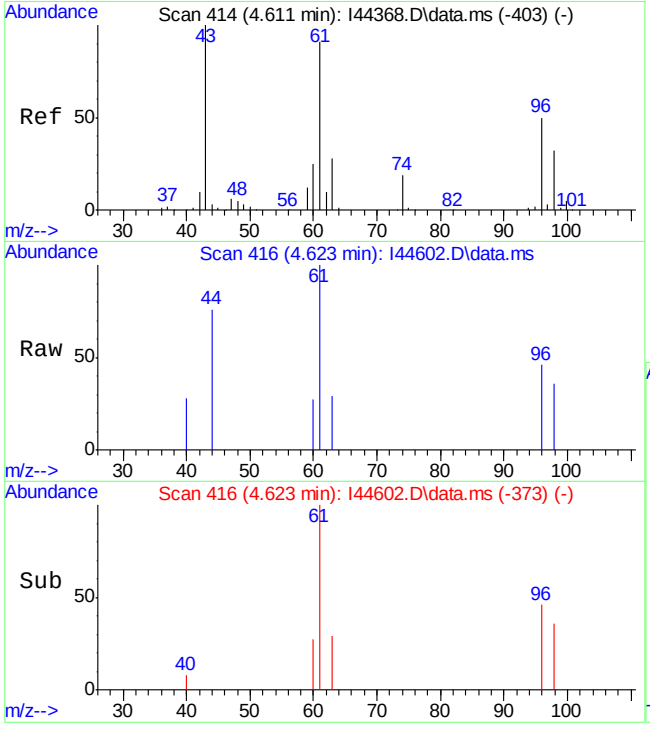


#12
Freon 113
Concen: 26.78 ug/L
RT: 3.897 min Scan# 297
Delta R.T. 0.000 min
Lab File: I44602.D
Acq: 29 Dec 2016 12:50 pm

Tgt Ion:101 Resp: 241870

Ion	Ratio	Lower	Upper
101	100		
151	64.7	48.6	88.6
103	64.1	43.2	83.2
85	47.4	26.6	66.6

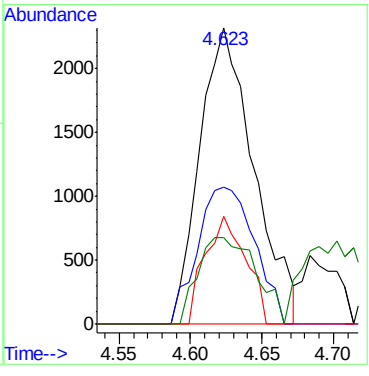


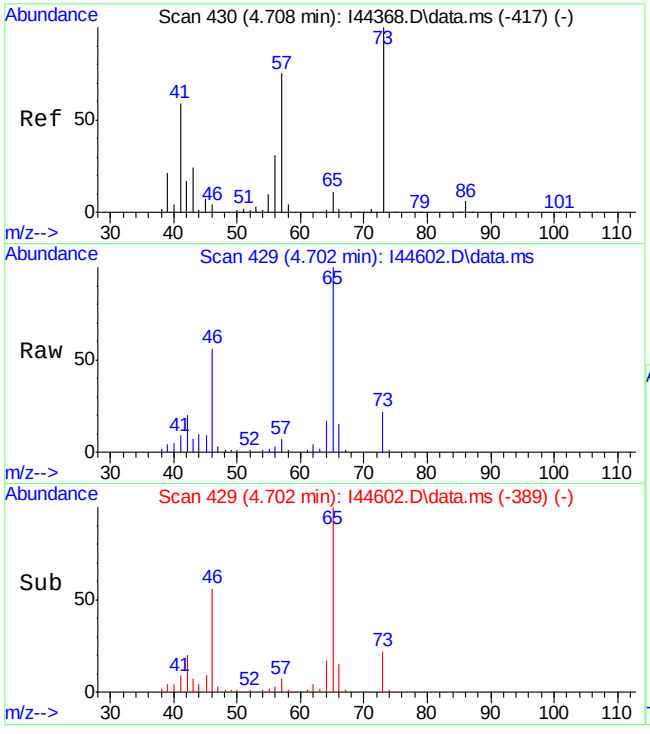


#19
trans-1,2-Dichloroethene
Concen: 0.39 ug/L
RT: 4.623 min Scan# 416
Delta R.T. 0.012 min
Lab File: I44602.D
Acq: 29 Dec 2016 12:50 pm

Tgt Ion: 61 Resp: 6122

Ion	Ratio	Lower	Upper
61	100		
96	46.2	25.2	85.2
98	36.2	5.8	65.8
63	29.1	0.5	60.5

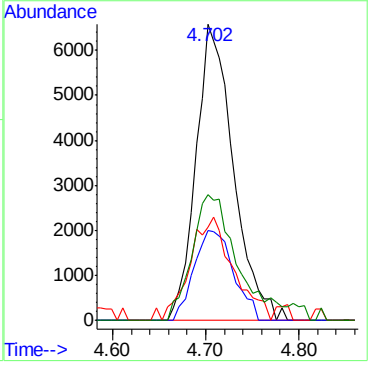


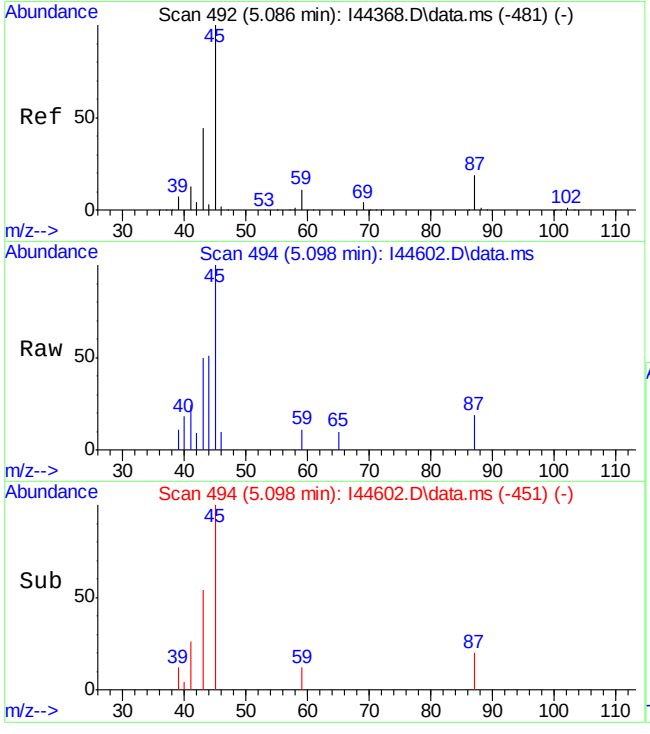


#21
Methyl Tert Butyl Ether
Concen: 0.78 ug/L
RT: 4.702 min Scan# 429
Delta R.T. -0.006 min
Lab File: I44602.D
Acq: 29 Dec 2016 12:50 pm

Tgt Ion: 73 Resp: 18488

Ion	Ratio	Lower	Upper
73	100		
57	30.3	45.0	105.0#
43	31.3	24.7	84.7
41	42.3	28.6	88.6

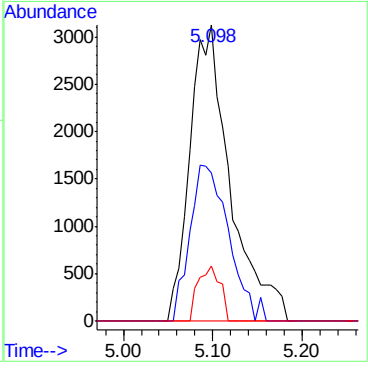




#23
Di-isopropyl ether
Concen: 0.26 ug/L
RT: 5.098 min Scan# 494
Delta R.T. 0.012 min
Lab File: I44602.D
Acq: 29 Dec 2016 12:50 pm

Tgt Ion: 45 Resp: 9839

Ion	Ratio	Lower	Upper
45	100		
43	49.9	14.4	74.4
87	18.7	0.0	48.5



7.1.11

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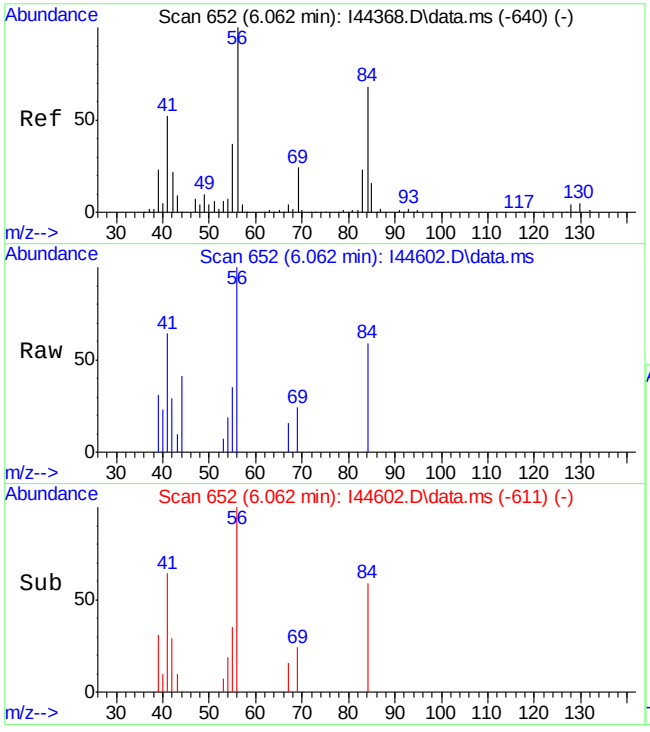
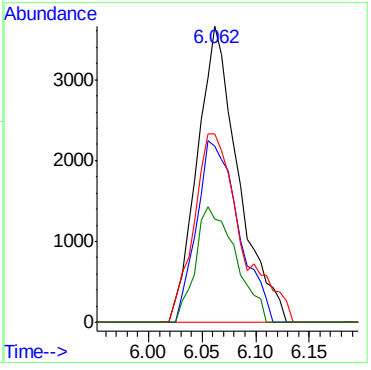
SGS ACCUTEST FA39742

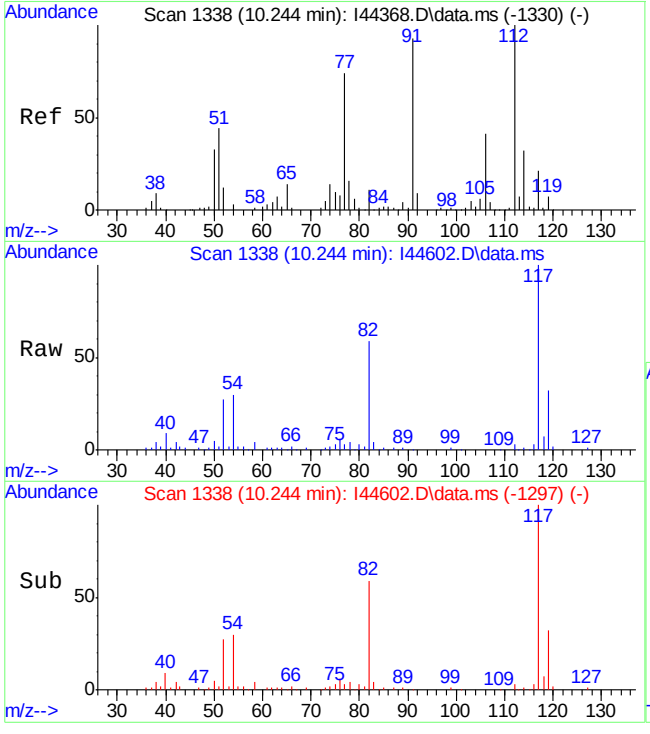


#32
Cyclohexane
Concen: 0.48 ug/L
RT: 6.062 min Scan# 652
Delta R.T. -0.000 min
Lab File: I44602.D
Acq: 29 Dec 2016 12:50 pm

Tgt Ion: 56 Resp: 9767

Ion	Ratio	Lower	Upper
56	100		
84	59.5	47.6	87.6
41	63.6	31.7	71.7
55	34.7	17.0	57.0

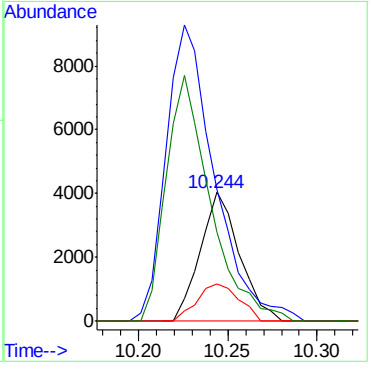


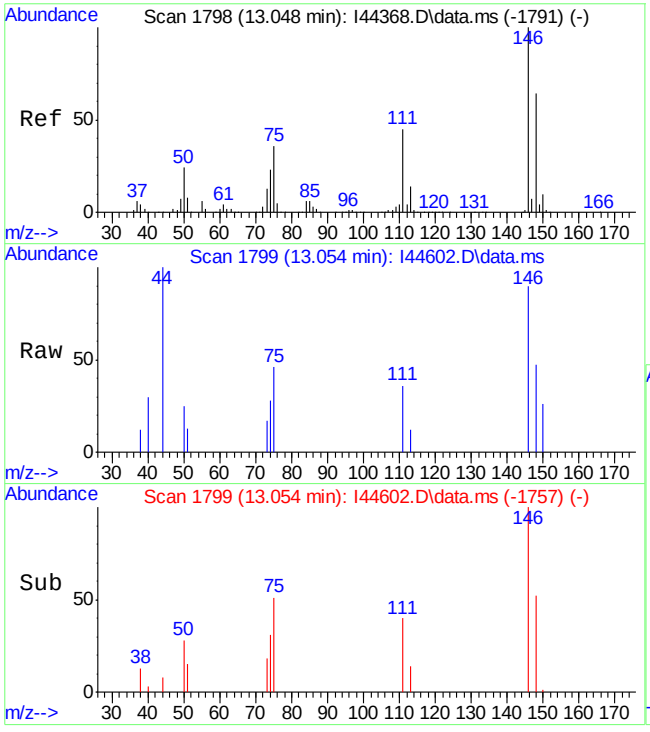


#71
Chlorobenzene
Concen: 0.27 ug/L
RT: 10.244 min Scan# 1338
Delta R.T. 0.000 min
Lab File: I44602.D
Acq: 29 Dec 2016 12:50 pm

Tgt Ion:112 Resp: 6138

Ion	Ratio	Lower	Upper
112	100		
77	95.2	44.5	104.5
114	28.7	1.8	61.8
51	68.7	14.4	74.4

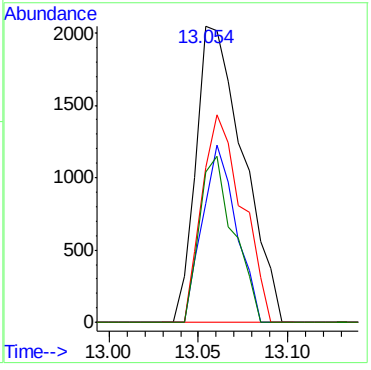


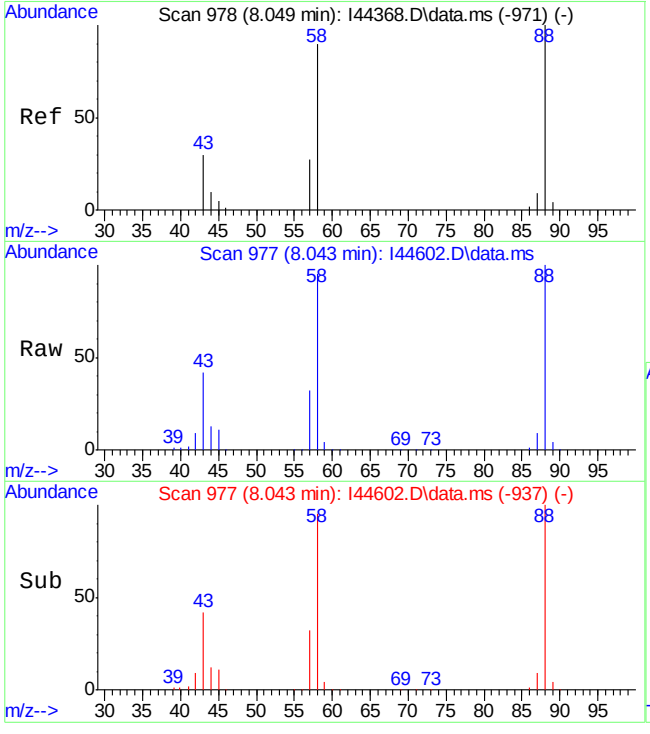


#100
1,2-Dichlorobenzene
Concen: 0.25 ug/L
RT: 13.054 min Scan# 1799
Delta R.T. 0.006 min
Lab File: I44602.D
Acq: 29 Dec 2016 12:50 pm

Tgt Ion:146 Resp: 3756

Ion	Ratio	Lower	Upper
146	100		
111	40.3	14.7	74.7
148	52.4	34.0	94.0
75	50.8	5.6	65.6

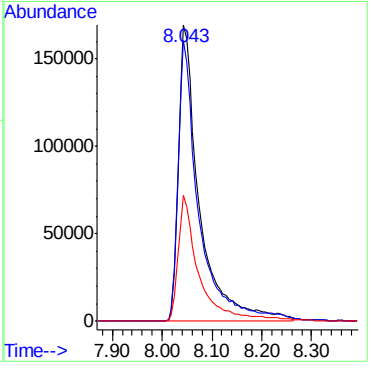




#112
1,4-Dioxane
Concen: 7922.81 ug/L
RT: 8.043 min Scan# 977
Delta R.T. -0.006 min
Lab File: I44602.D
Acq: 29 Dec 2016 12:50 pm

Tgt Ion: 88 Resp: 496459

Ion	Ratio	Lower	Upper
88	100		
58	94.8	60.1	120.1
43	42.4	3.3	63.3



Manual Integration Approval Summary

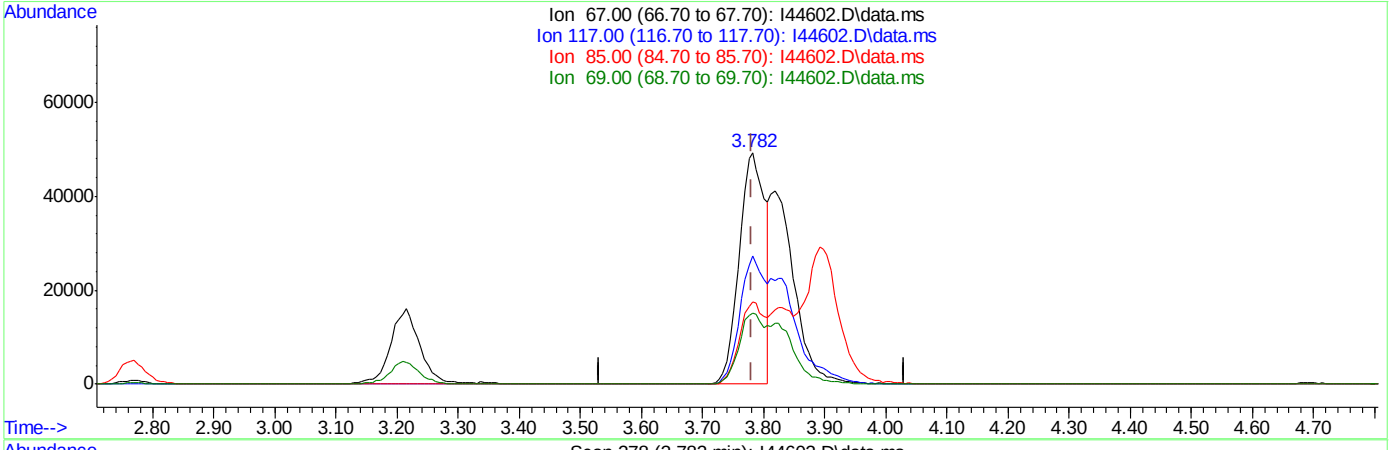
Sample Number:	FA39742-11	**Method:**	SW846 8260C
Lab FileID:	I44602.D	**Analyst approved:**	01/04/17 13:34 Wilfredo Vazquez
Injection Time:	12/29/16 12:50	**Supervisor approved:**	01/05/17 16:01 Juan Garcia

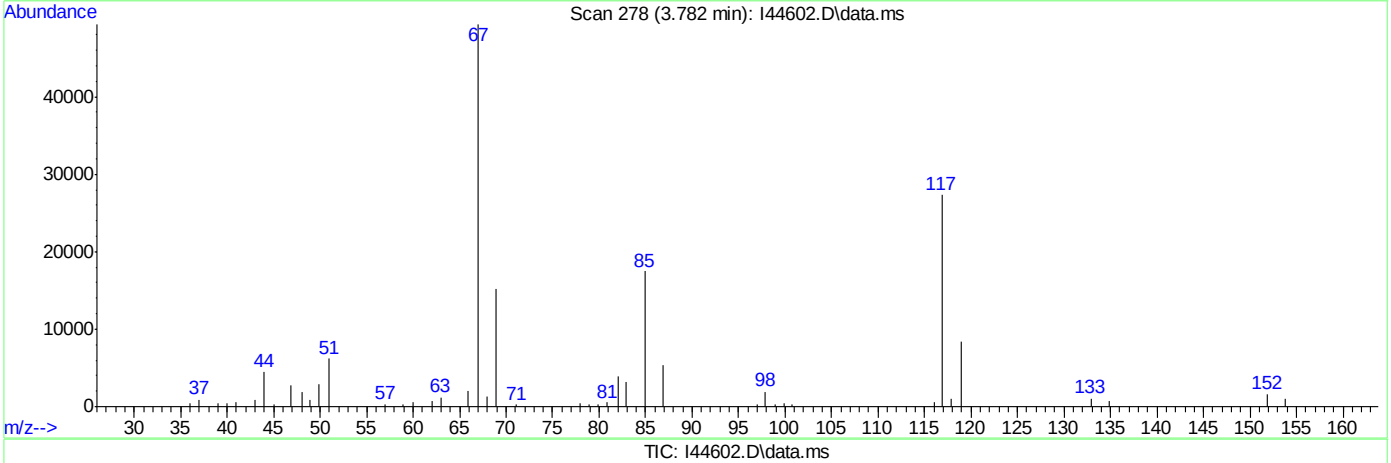
Parameter	CAS	Sig#	R.T. (min.)	Reason
1,2-Dichlorotrifluoroethane	354-23-4		3.78	Split peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\DATA\122916\
Data File : I44602.D
Acq On : 29 Dec 2016 12:50 pm
Operator : WILFREDO
Sample : FA39742-11 Inst : MSVOA16
Misc : MS35956,VI1227,,,,,
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Dec 29 13:11:23 2016
Quant Method : C:\msdchem\2\METHODS\I-DEC22.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Dec 23 09:02:35 2016
Response via : Initial Calibration





TIC: I44602.D\data.ms

(10) 1,2-Dichlorotrifluoroethane

3.782min (+0.000) 12.50ug/L

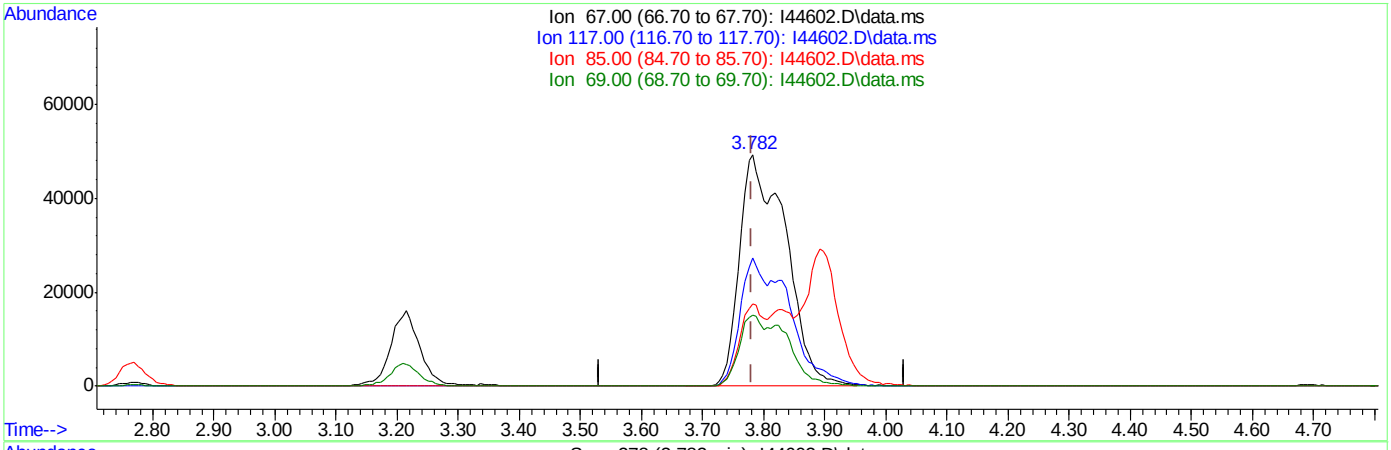
response 145301

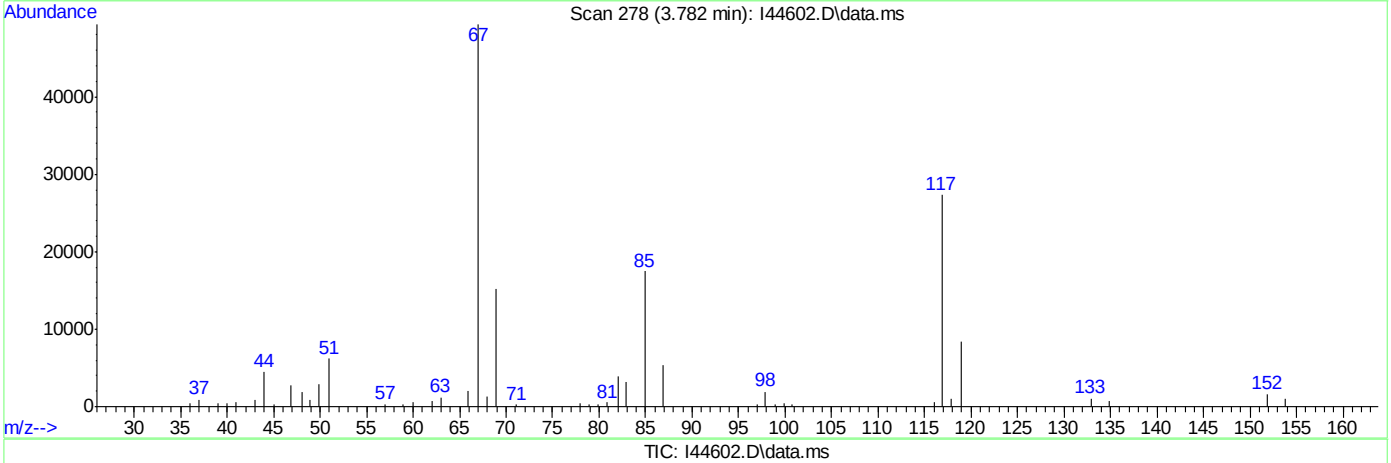
Ion	Exp%	Act%
67.00	100	100
117.00	57.70	55.31
85.00	36.80	35.48
69.00	29.70	30.88

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\DATA\122916\
Data File : I44602.D
Acq On : 29 Dec 2016 12:50 pm
Operator : WILFREDO
Sample : FA39742-11 Inst : MSVOA16
Misc : MS35956,VI1227,,,,,
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Dec 29 13:11:23 2016
Quant Method : C:\msdchem\2\METHODS\I-DEC22.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Dec 23 09:02:35 2016
Response via : Initial Calibration





TIC: I44602.D\data.ms

(10) 1,2-Dichlorotrifluoroethane

3.782min (+0.000) 22.36ug/L m

response 259875

Ion	Exp%	Act%
67.00	100	100
117.00	57.70	55.31
85.00	36.80	35.48
69.00	29.70	30.88

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\122916\
Data File : I44603.D
Acq On : 29 Dec 2016 1:14 pm
Operator : WILFREDO
Sample : FA39742-12 MA Inst : MSVOA16
Misc : MS35956,VI1227,,,,,
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Dec 29 15:57:09 2016
Quant Method : C:\msdchem\2\METHODS\I-DEC22.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Dec 23 09:02:35 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.116	96	1661745	50.00	ug/L	0.00
56) Chlorobenzene-d5	10.226	117	1091432	50.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	12.591	152	507980	50.00	ug/L	0.00
106) Tert Butyl Alcohol-d10	4.690	65	111806	250.00	ug/L	0.00
System Monitoring Compounds						
36) Dibromofluoromethane	6.281	113	411900	49.10	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 98.20%			
46) 1,2-Dichloroethane-d4	6.830	65	641685	54.16	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 108.32%			
57) Toluene-d8	8.677	98	1551472	51.99	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 103.98%			
79) 4-Bromofluorobenzene	11.439	174	372005	50.28	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 100.56%			
Target Compounds						Qvalue
16) Methylene Chloride	4.434	49	3574	0.23	ug/L	88
58) Toluene	8.732	91	7750	0.25	ug/L	94

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

7.1.12

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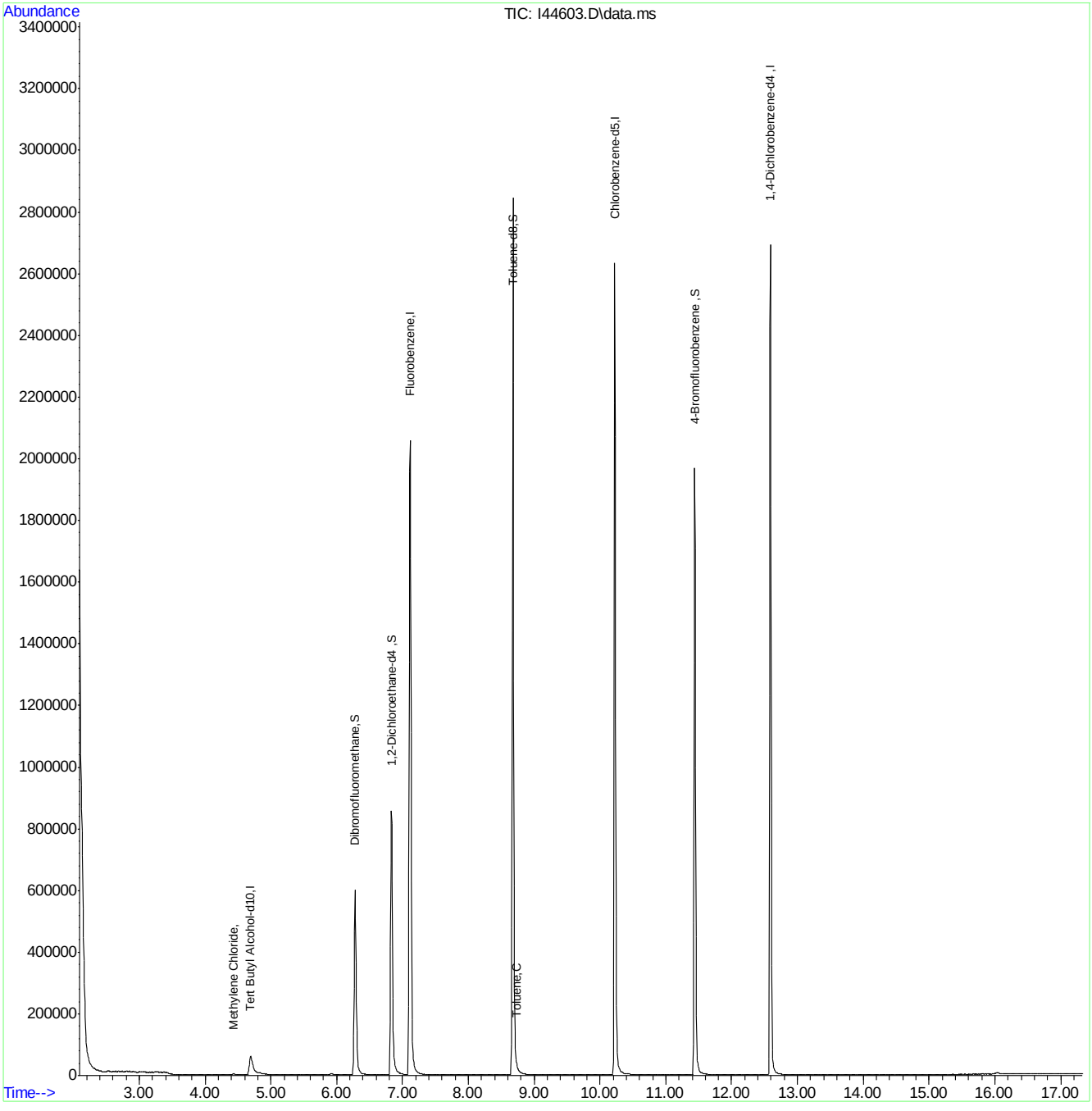
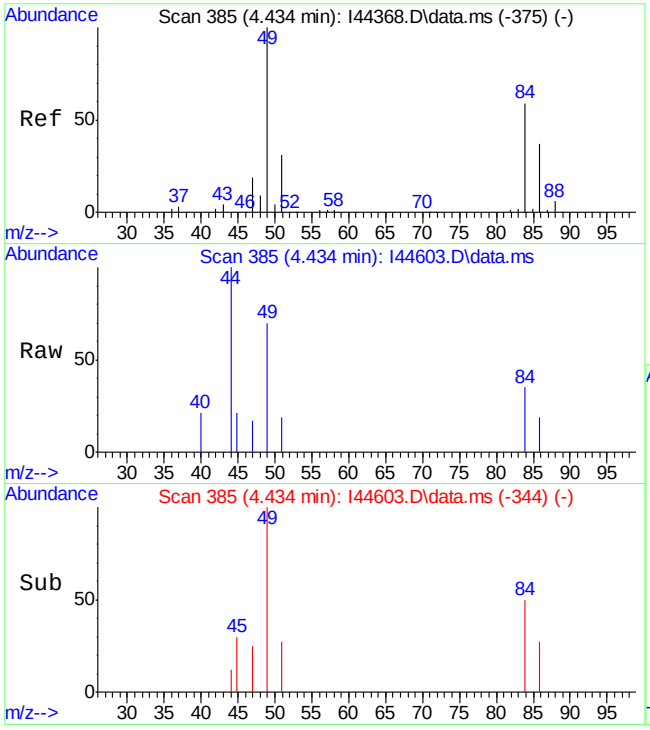
SGS ACCUTEST FA39742

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\122916\
Data File : I44603.D
Acq On : 29 Dec 2016 1:14 pm
Operator : WILFREDO
Sample : FA39742-12 MA Inst : MSVOA16
Misc : MS35956,VI1227,,,,,
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Dec 29 15:57:09 2016
Quant Method : C:\msdchem\2\METHODS\I-DEC22.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Dec 23 09:02:35 2016
Response via : Initial Calibration

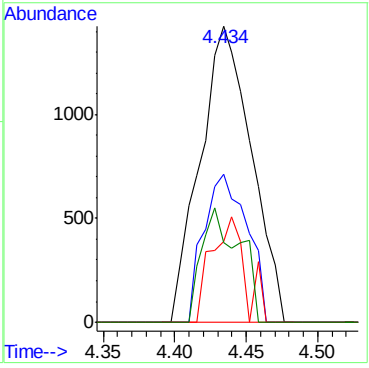


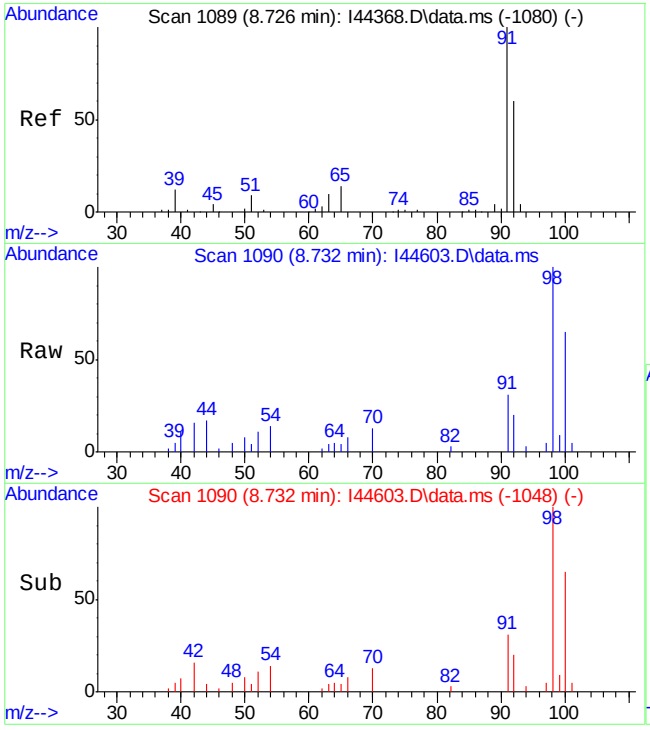


#16
Methylene Chloride
Concen: 0.23 ug/L
RT: 4.434 min Scan# 385
Delta R.T. -0.000 min
Lab File: I44603.D
Acq: 29 Dec 2016 1:14 pm

Tgt Ion: 49 Resp: 3574

Ion	Ratio	Lower	Upper
49	100		
84	50.0	28.9	88.9
86	27.2	7.2	67.2
51	27.0	1.3	61.3

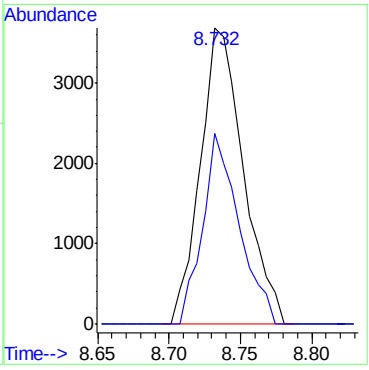




#58
Toluene
Concen: 0.25 ug/L
RT: 8.732 min Scan# 1090
Delta R.T. 0.006 min
Lab File: I44603.D
Acq: 29 Dec 2016 1:14 pm

Tgt Ion: 91 Resp: 7750

Ion	Ratio	Lower	Upper
91	100		
92	64.2	29.7	89.7



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\122816\
Data File : I44557.D
Acq On : 28 Dec 2016 6:34 pm
Operator : WILFREDO
Sample : FA39742-13 MA Inst : MSVOA16
Misc : MS35953,VI1223,,,,,
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Dec 29 08:26:59 2016
Quant Method : C:\msdchem\2\METHODS\I-DEC22.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Dec 23 09:02:35 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.116	96	1636099	50.00	ug/L	0.00
56) Chlorobenzene-d5	10.226	117	1079073	50.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	12.591	152	503826	50.00	ug/L	0.00
106) Tert Butyl Alcohol-d10	4.690	65	122618	250.00	ug/L	0.00
System Monitoring Compounds						
36) Dibromofluoromethane	6.275	113	408299	49.43	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 98.86%			
46) 1,2-Dichloroethane-d4	6.830	65	615490	52.77	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 105.54%			
57) Toluene-d8	8.677	98	1497910	50.77	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 101.54%			
79) 4-Bromofluorobenzene	11.439	174	352000	47.97	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 95.94%			

Target Compounds Qvalue

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

7.1.13

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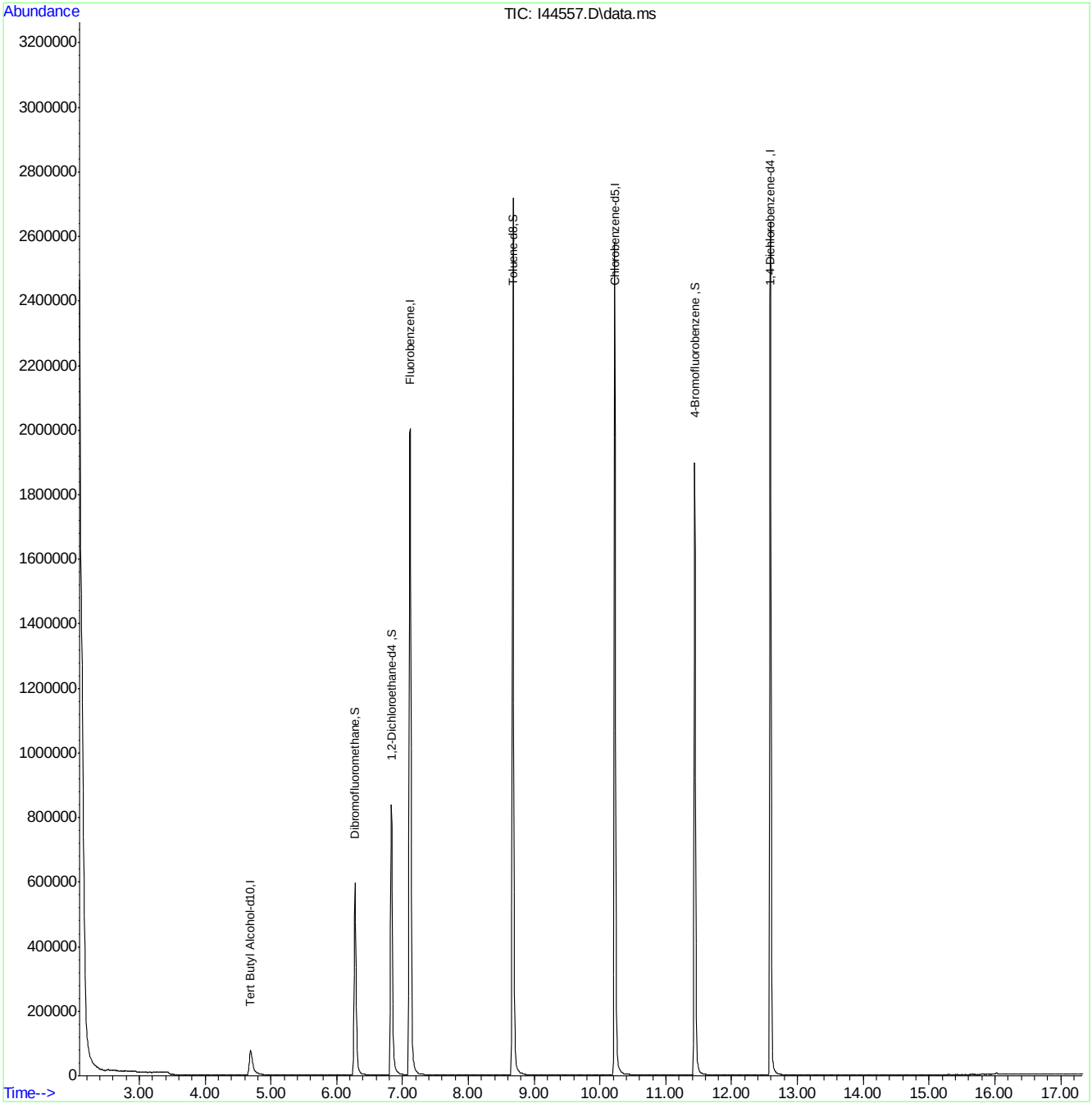
SGS ACCUTEST FA39742

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\122816\
Data File : I44557.D
Acq On : 28 Dec 2016 6:34 pm
Operator : WILFREDO
Sample : FA39742-13 MA Inst : MSVOA16
Misc : MS35953,VI1223,,,,,
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Dec 29 08:26:59 2016
Quant Method : C:\msdchem\2\METHODS\I-DEC22.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Dec 23 09:02:35 2016
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\122816\
Data File : I44558.D
Acq On : 28 Dec 2016 6:57 pm
Operator : WILFREDO
Sample : FA39742-14 MA Inst : MSVOA16
Misc : MS35953,VI1223,,,,,
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Dec 29 08:27:15 2016
Quant Method : C:\msdchem\2\METHODS\I-DEC22.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Dec 23 09:02:35 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.116	96	1617666	50.00	ug/L	0.00
56) Chlorobenzene-d5	10.225	117	1056099	50.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	12.591	152	492179	50.00	ug/L	0.00
106) Tert Butyl Alcohol-d10	4.690	65	122284	250.00	ug/L	0.00
System Monitoring Compounds						
36) Dibromofluoromethane	6.281	113	399820	48.96	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 97.92%			
46) 1,2-Dichloroethane-d4	6.830	65	614423	53.27	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 106.54%			
57) Toluene-d8	8.677	98	1485215	51.43	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 102.86%			
79) 4-Bromofluorobenzene	11.445	174	351807	49.08	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 98.16%			
Target Compounds						Qvalue
16) Methylene Chloride	4.434	49	7547	0.51	ug/L	91
58) Toluene	8.738	91	14847	0.50	ug/L	90
88) Cyclohexanone	11.835	55	3570	11.31	ug/L	83

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

7.1.14

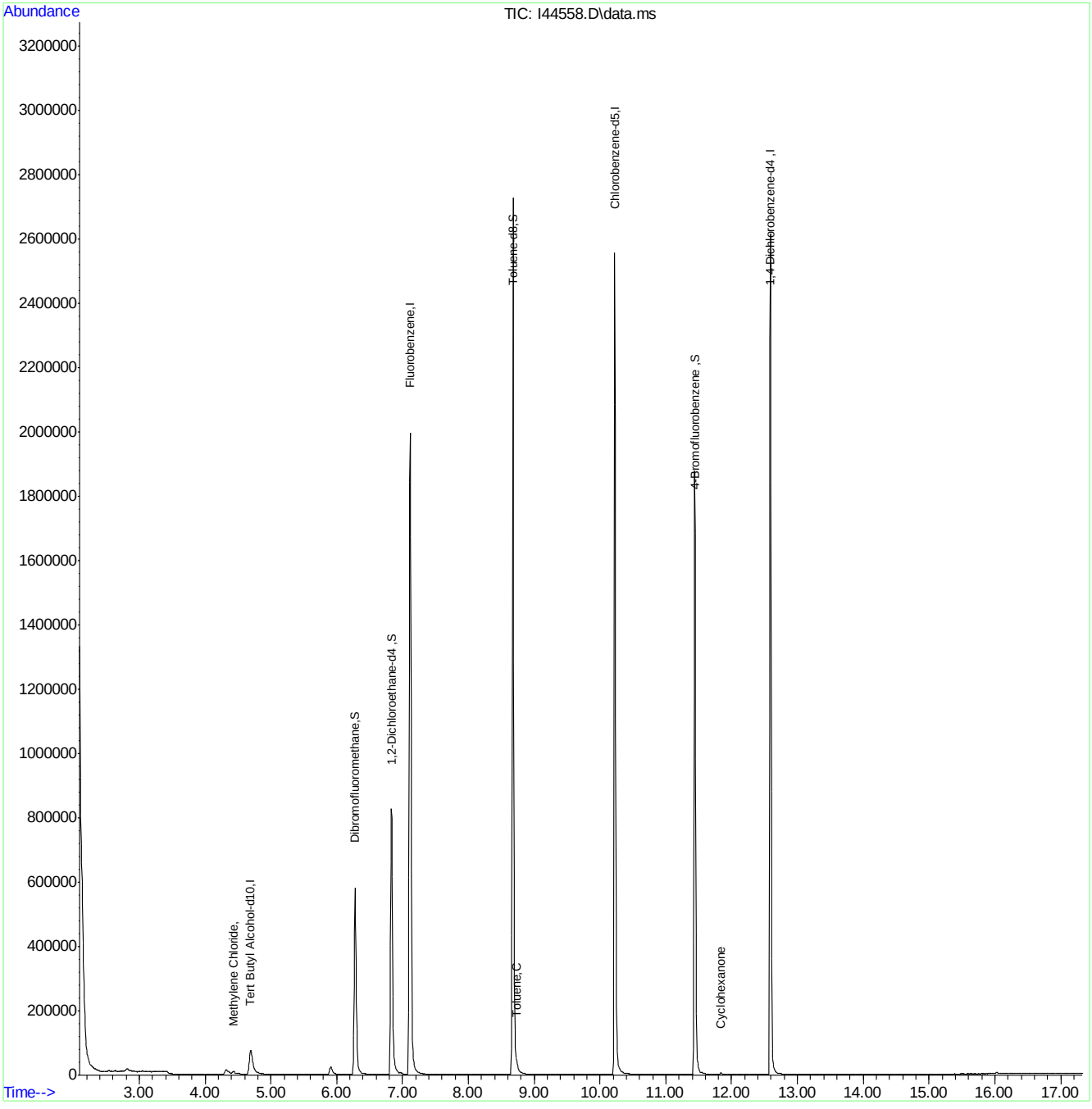
7

SGS ACCUTEST FA39742

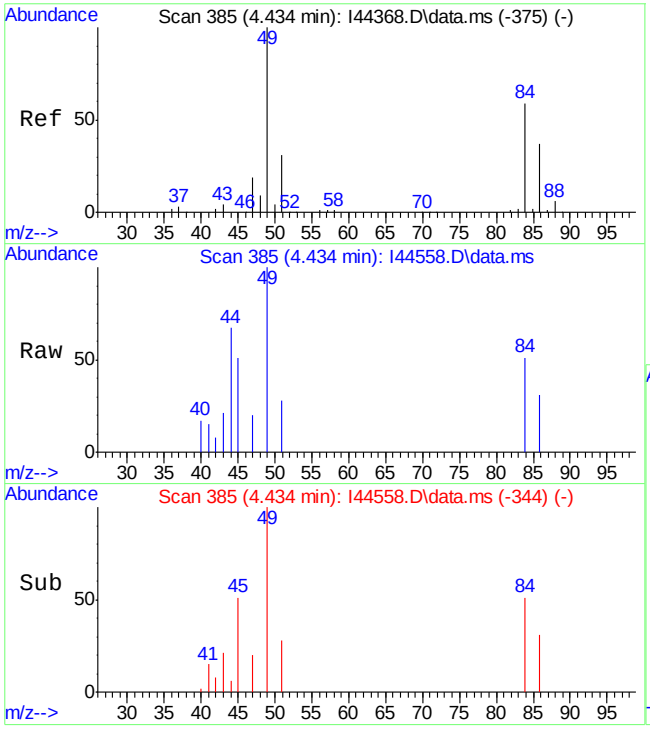
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\122816\
Data File : I44558.D
Acq On : 28 Dec 2016 6:57 pm
Operator : WILFREDO
Sample : FA39742-14 MA Inst : MSVOA16
Misc : MS35953,VI1223,,,,,
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Dec 29 08:27:15 2016
Quant Method : C:\msdchem\2\METHODS\I-DEC22.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Dec 23 09:02:35 2016
Response via : Initial Calibration



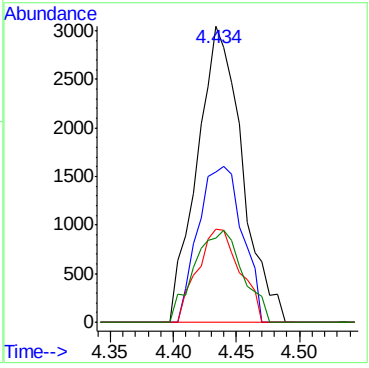
SGS ACCUTEST FA39742

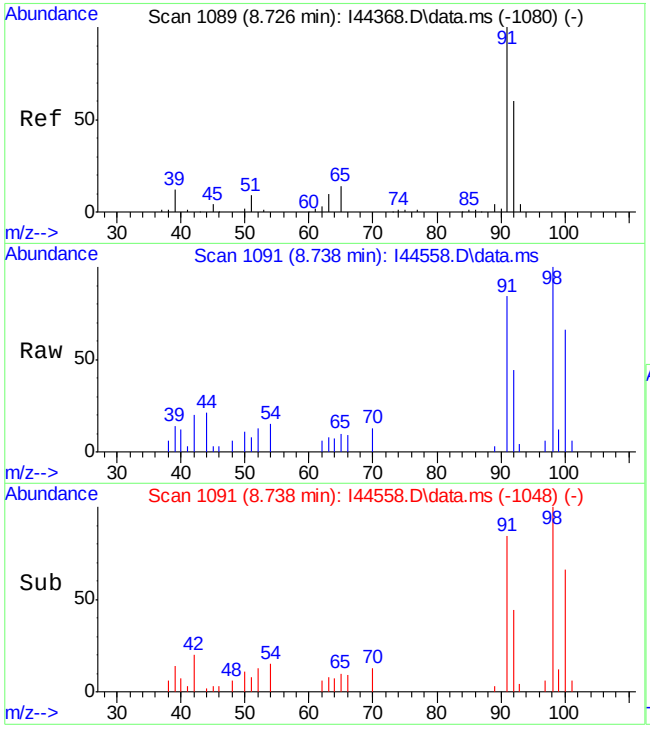


#16
Methylene Chloride
Concen: 0.51 ug/L
RT: 4.434 min Scan# 385
Delta R.T. -0.000 min
Lab File: I44558.D
Acq: 28 Dec 2016 6:57 pm

Tgt Ion: 49 Resp: 7547

Ion	Ratio	Lower	Upper
49	100		
84	50.9	28.9	88.9
86	31.3	7.2	67.2
51	28.4	1.3	61.3

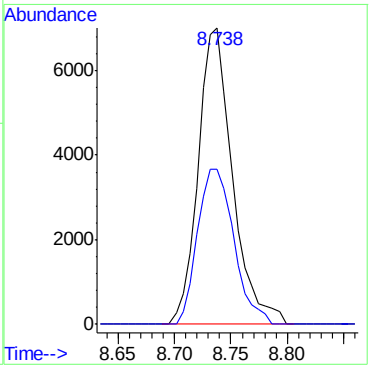


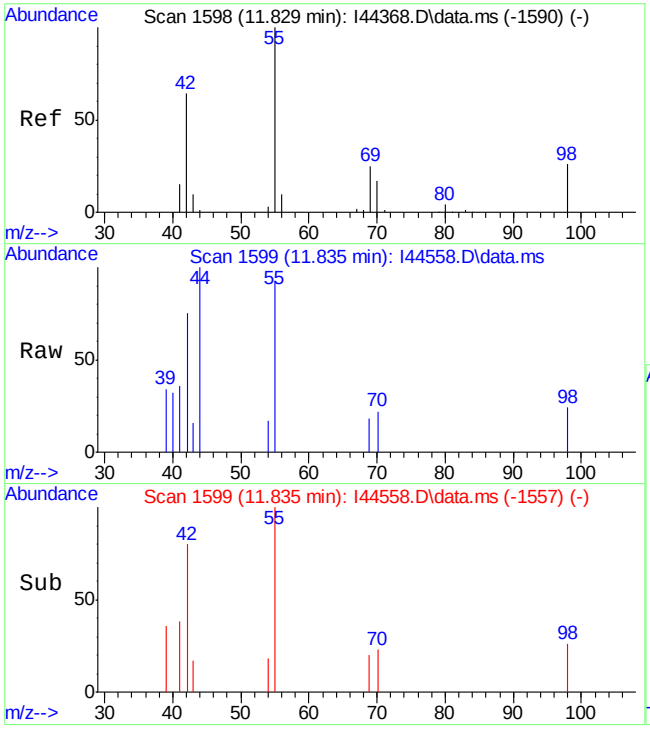


#58
Toluene
Concen: 0.50 ug/L
RT: 8.738 min Scan# 1091
Delta R.T. 0.012 min
Lab File: I44558.D
Acq: 28 Dec 2016 6:57 pm

Tgt Ion: 91 Resp: 14847

Ion	Ratio	Lower	Upper
91	100		
92	52.4	29.7	89.7

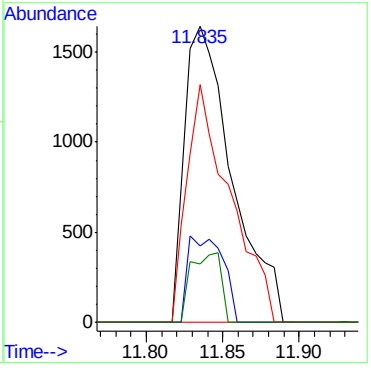




#88
Cyclohexanone
Concen: 11.31 ug/L
RT: 11.835 min Scan# 1599
Delta R.T. 0.006 min
Lab File: I44558.D
Acq: 28 Dec 2016 6:57 pm

Tgt Ion: 55 Resp: 3570

Ion	Ratio	Lower	Upper
55	100		
98	25.7	12.8	52.8
42	80.2	43.0	83.0
69	19.8	4.8	44.8



7.1.14

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\122816\
Data File : I44559.D
Acq On : 28 Dec 2016 7:21 pm
Operator : WILFREDO
Sample : FA39742-15 MA Inst : MSVOA16
Misc : MS35953,VI1223,,,,,
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Dec 29 08:27:29 2016
Quant Method : C:\msdchem\2\METHODS\I-DEC22.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Dec 23 09:02:35 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.116	96	1581855	50.00	ug/L	0.00
56) Chlorobenzene-d5	10.225	117	1041744	50.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	12.591	152	487571	50.00	ug/L	0.00
106) Tert Butyl Alcohol-d10	4.696	65	119418	250.00	ug/L	0.00
System Monitoring Compounds						
36) Dibromofluoromethane	6.281	113	391728	49.05	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 98.10%			
46) 1,2-Dichloroethane-d4	6.830	65	602030	53.38	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 106.76%			
57) Toluene-d8	8.677	98	1486291	52.18	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 104.36%			
79) 4-Bromofluorobenzene	11.445	174	348037	49.01	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 98.02%			

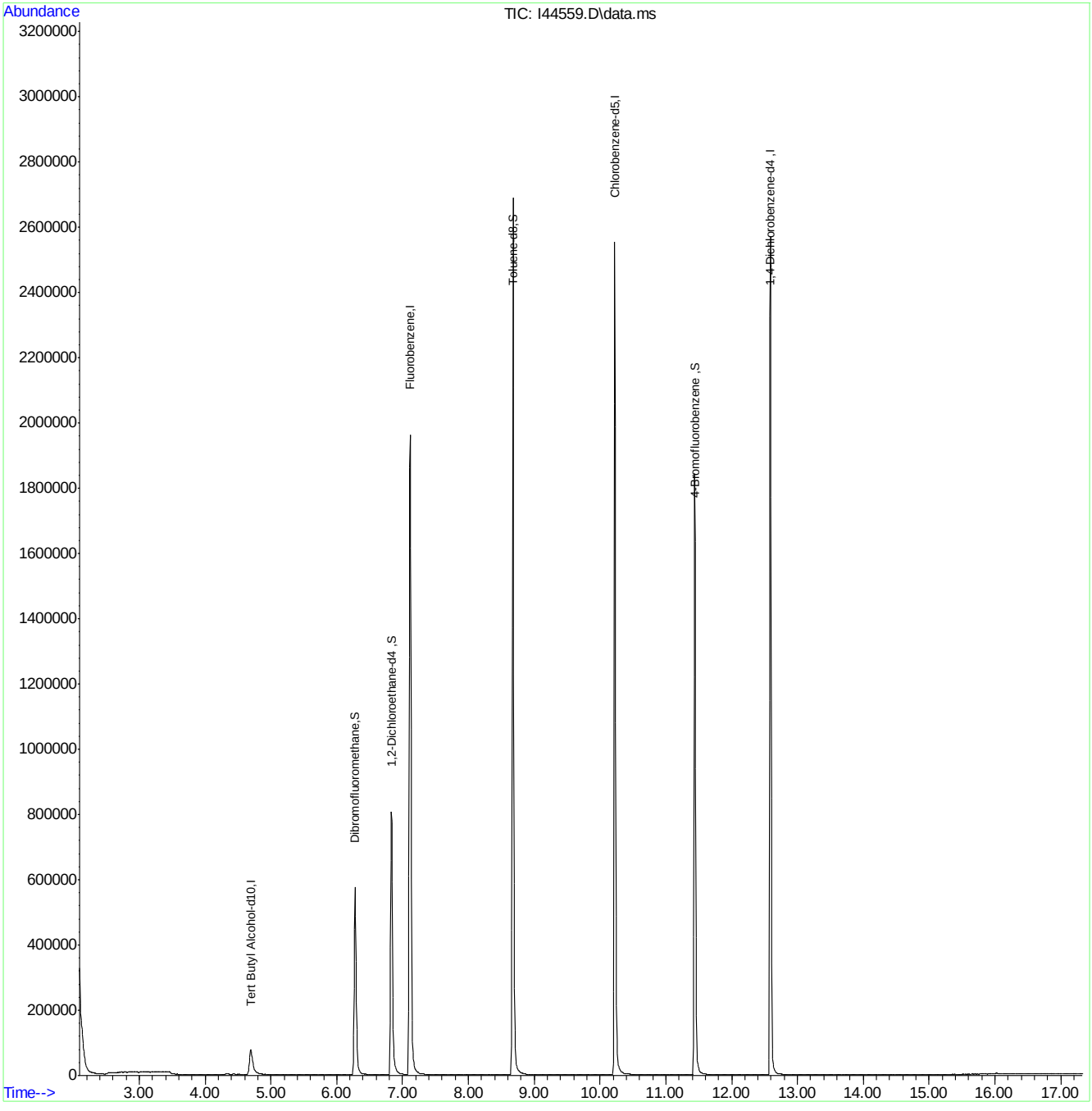
Target Compounds Qvalue

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\122816\
Data File : I44559.D
Acq On : 28 Dec 2016 7:21 pm
Operator : WILFREDO
Sample : FA39742-15 MA Inst : MSVOA16
Misc : MS35953,VI1223,,,,,
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Dec 29 08:27:29 2016
Quant Method : C:\msdchem\2\METHODS\I-DEC22.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Dec 23 09:02:35 2016
Response via : Initial Calibration



SGS ACCUTEST FA39742

Manual Integrations
APPROVED
(compounds with "m" flag)
Juan Garcia
01/04/17 12:34

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\123016\
Data File : I44674.D
Acq On : 30 Dec 2016 7:44 pm
Operator : WILFREDO
Sample : FA39742-16 MA Inst : MSVOA16
Misc : MS35976,VI1230,,,,,
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Dec 31 11:28:00 2016
Quant Method : C:\msdchem\2\METHODS\I-DEC22.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Dec 23 09:02:35 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.116	96	1926889	50.00	ug/L	0.00
56) Chlorobenzene-d5	10.231	117	1283068	50.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	12.591	152	625610	50.00	ug/L	0.00
106) Tert Butyl Alcohol-d10	4.696	65	152461	250.00	ug/L	0.00
System Monitoring Compounds						
36) Dibromofluoromethane	6.281	113	471792	48.50	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 97.00%			
46) 1,2-Dichloroethane-d4	6.830	65	698441	50.84	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 101.68%			
57) Toluene-d8	8.677	98	1823459	51.97	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 103.94%			
79) 4-Bromofluorobenzene	11.445	174	469633	51.54	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 103.08%			
Target Compounds						Qvalue
21) Methyl Tert Butyl Ether	4.708	73	122886	4.60	ug/L #	59
23) Di-isopropyl ether	5.098	45	24110	0.58	ug/L	93
44) Benzene	6.714	78	98695	2.69	ug/L	63
58) Toluene	8.732	91	33112	0.91	ug/L	96
70) Ethylbenzene	10.244	91	32534807m	797.73	ug/L	
73) m,p-Xylene	10.390	91	37935152m	1211.87	ug/L	
74) o-Xylene	10.835	91	14993	0.46	ug/L	97
77) Isopropylbenzene	11.134	105	2239994	58.69	ug/L	99
81) n-Propylbenzene	11.560	91	551841	10.94	ug/L	99
104) Naphthalene	14.743	128	5967	0.23	ug/L	99
109) Tert Butyl Alcohol	4.781	59	43625	57.21	ug/L #	94
112) 1,4-Dioxane	8.073	88	3012	45.19	ug/L	87

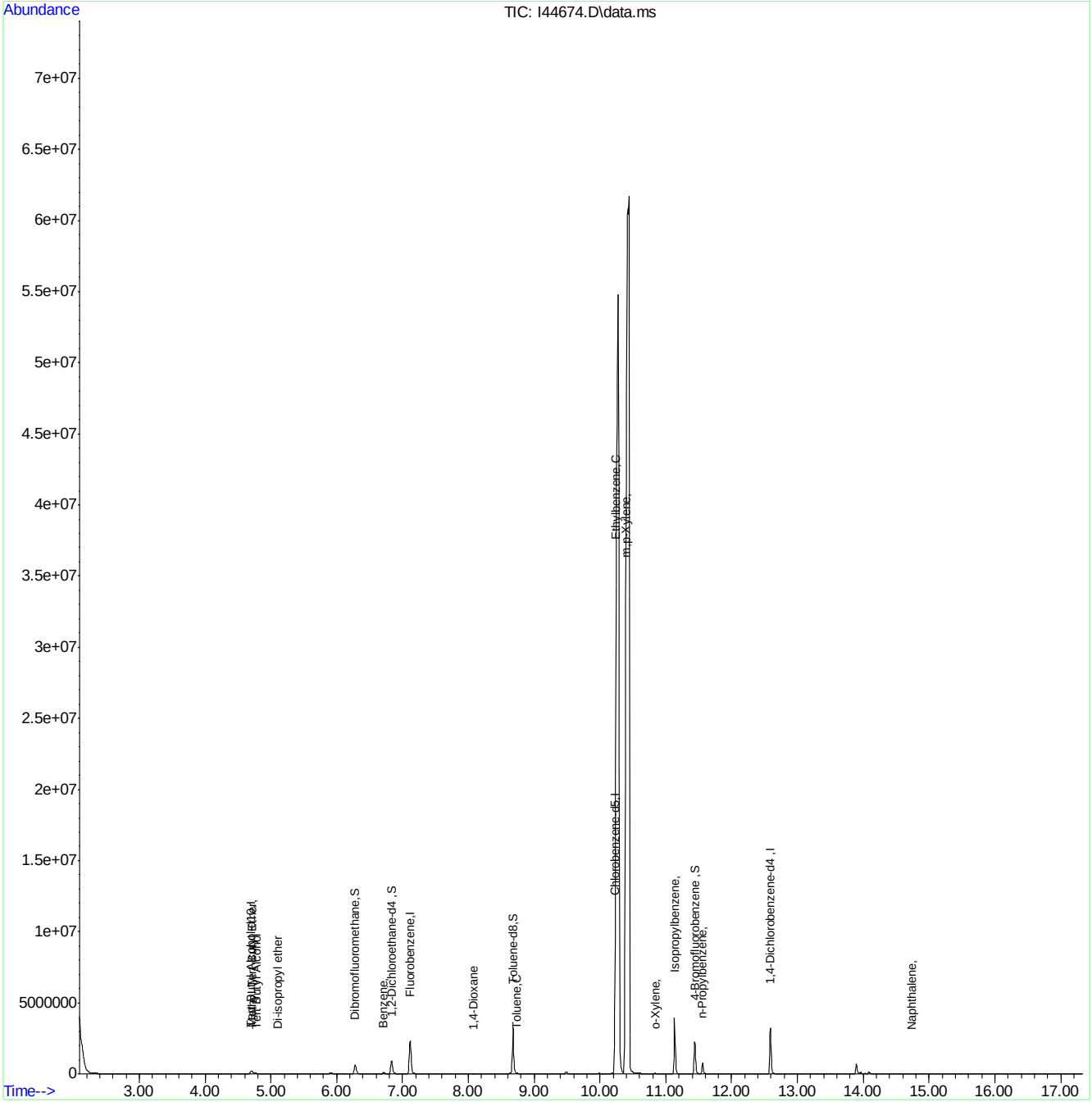
(#) = qualifier out of range (m) = manual integration (+) = signals summed

7.1.16
7

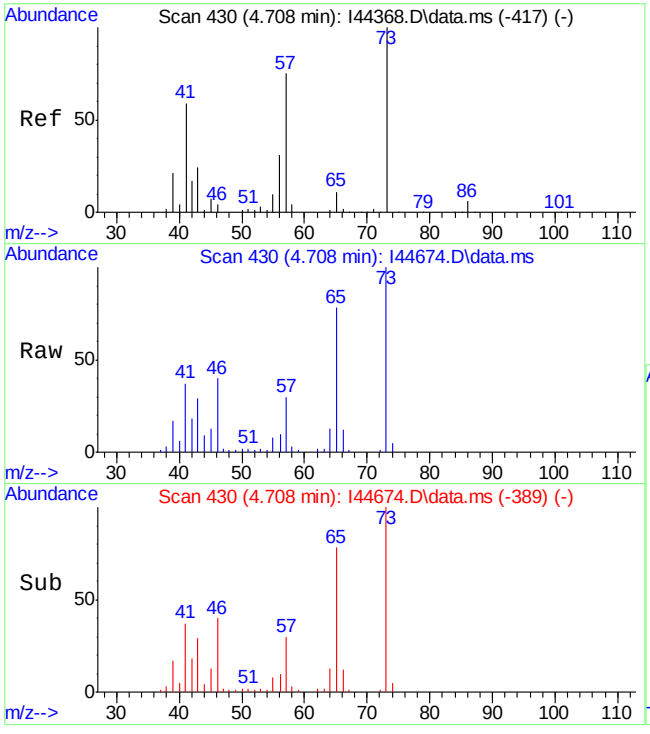
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\123016\
Data File : I44674.D
Acq On : 30 Dec 2016 7:44 pm
Operator : WILFREDO
Sample : FA39742-16 MA Inst : MSVOA16
Misc : MS35976,VI1230,,,,,
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Dec 31 11:28:00 2016
Quant Method : C:\msdchem\2\METHODS\I-DEC22.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Dec 23 09:02:35 2016
Response via : Initial Calibration



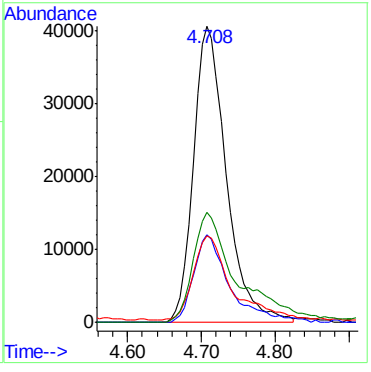
I-DEC22.M Sat Dec 31 11:38:42 2016 Page: 2

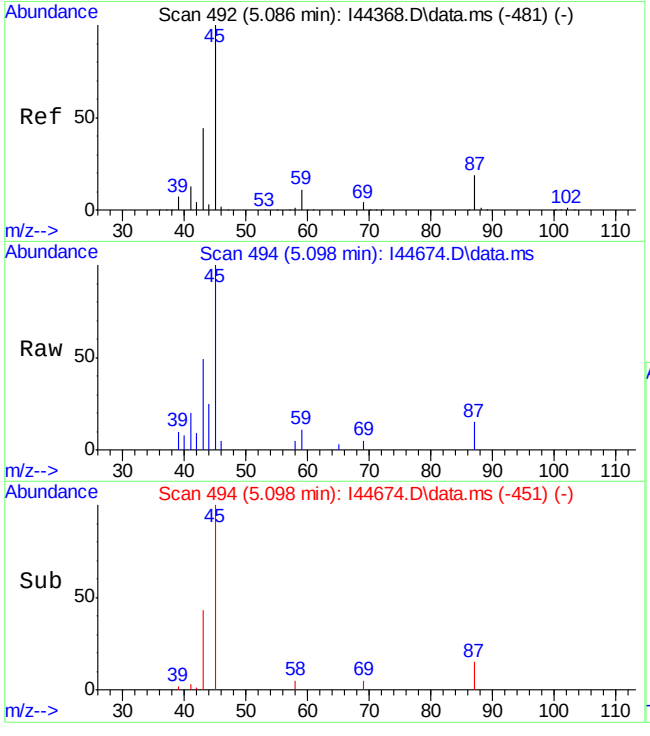


#21
Methyl Tert Butyl Ether
Concen: 4.60 ug/L
RT: 4.708 min Scan# 430
Delta R.T. -0.000 min
Lab File: I44674.D
Acq: 30 Dec 2016 7:44 pm

Tgt Ion: 73 Resp: 122886

Ion	Ratio	Lower	Upper
73	100		
57	29.6	45.0	105.0#
43	28.2	24.7	84.7
41	37.3	28.6	88.6

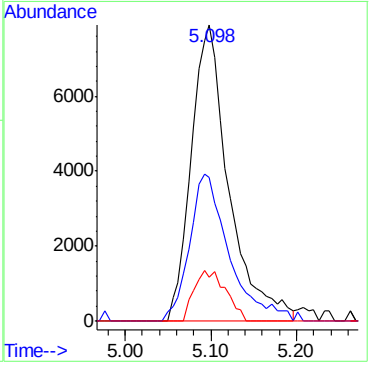


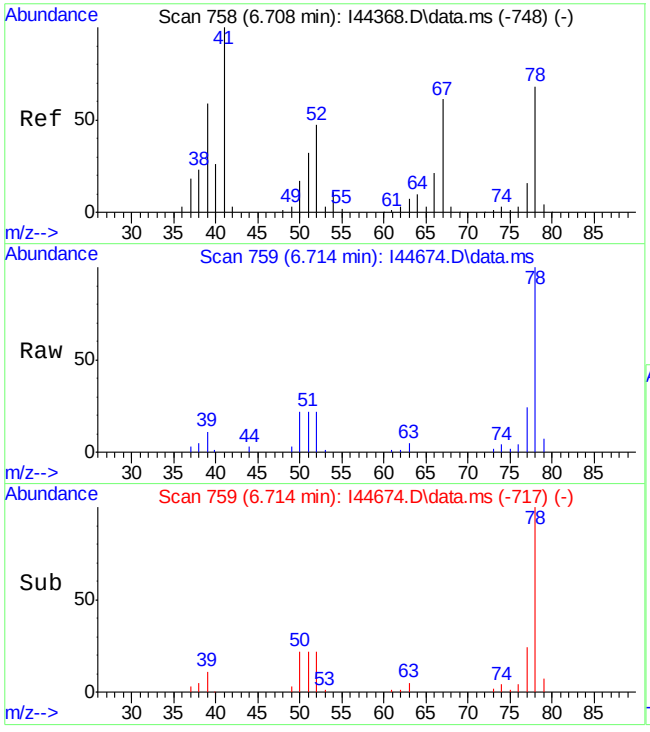


#23
Di-isopropyl ether
Concen: 0.58 ug/L
RT: 5.098 min Scan# 494
Delta R.T. 0.012 min
Lab File: I44674.D
Acq: 30 Dec 2016 7:44 pm

Tgt Ion: 45 Resp: 24110

Ion	Ratio	Lower	Upper
45	100		
43	48.6	14.4	74.4
87	14.8	0.0	48.5

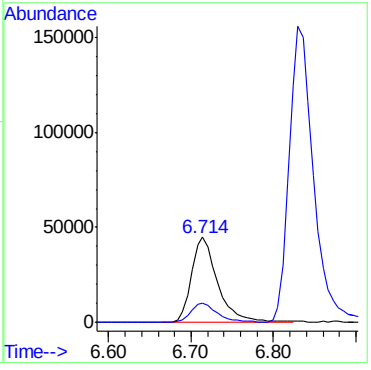


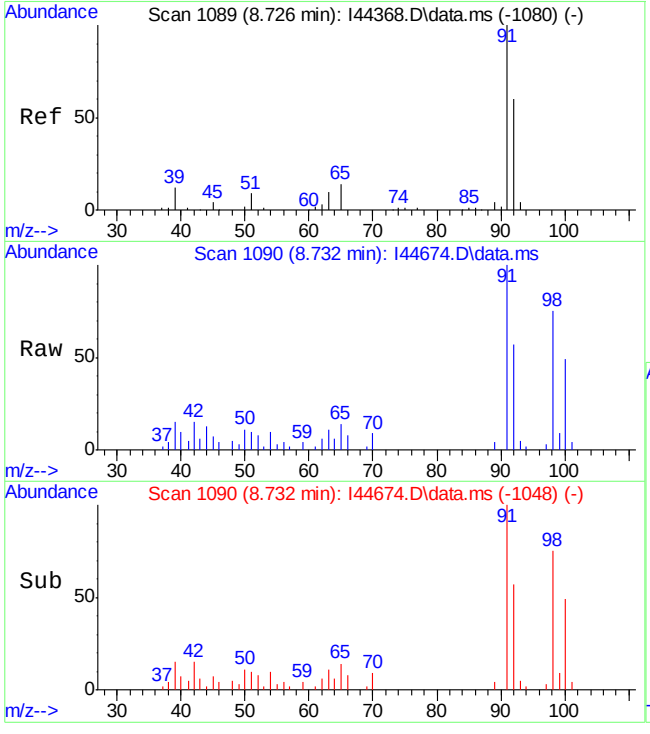


#44
Benzene
Concen: 2.69 ug/L
RT: 6.714 min Scan# 759
Delta R.T. 0.006 min
Lab File: I44674.D
Acq: 30 Dec 2016 7:44 pm

Tgt Ion: 78 Resp: 98695

Ion	Ratio	Lower	Upper
78	100		
51	22.0	16.8	76.8

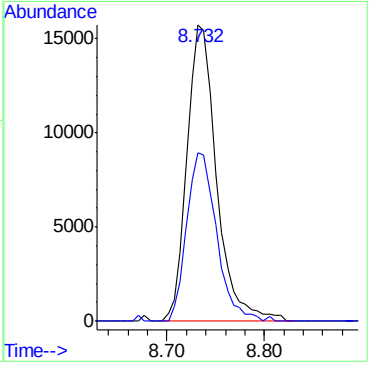


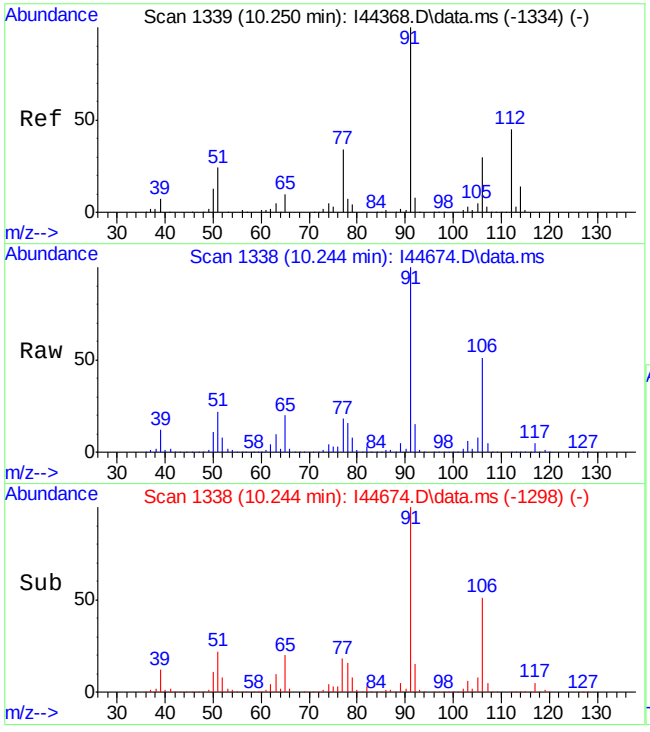


#58
Toluene
Concen: 0.91 ug/L
RT: 8.732 min Scan# 1090
Delta R.T. 0.006 min
Lab File: I44674.D
Acq: 30 Dec 2016 7:44 pm

Tgt Ion: 91 Resp: 33112

Ion	Ratio	Lower	Upper
91	100		
92	56.9	29.7	89.7

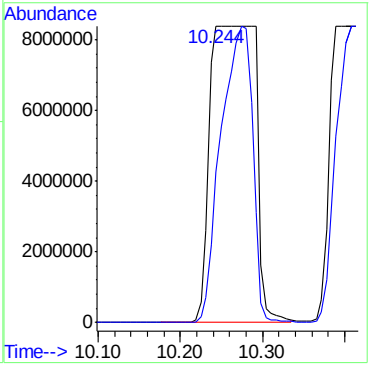


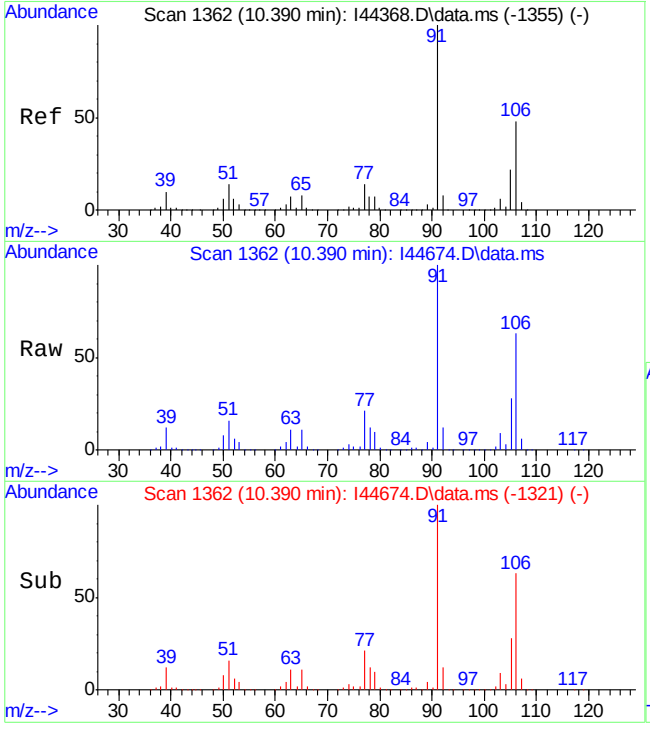


#70
Ethylbenzene
Concen: 797.73 ug/L m
RT: 10.244 min Scan# 1338
Delta R.T. -0.006 min
Lab File: I44674.D
Acq: 30 Dec 2016 7:44 pm

Tgt Ion: 91 Resp:32534807

Ion	Ratio	Lower	Upper
91	100		
106	50.7	0.0	59.5

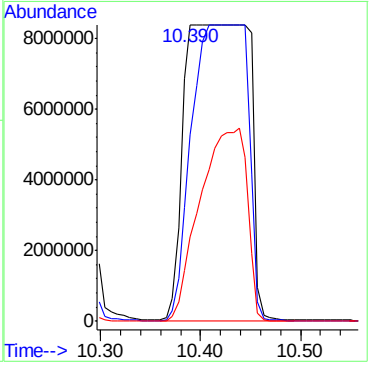


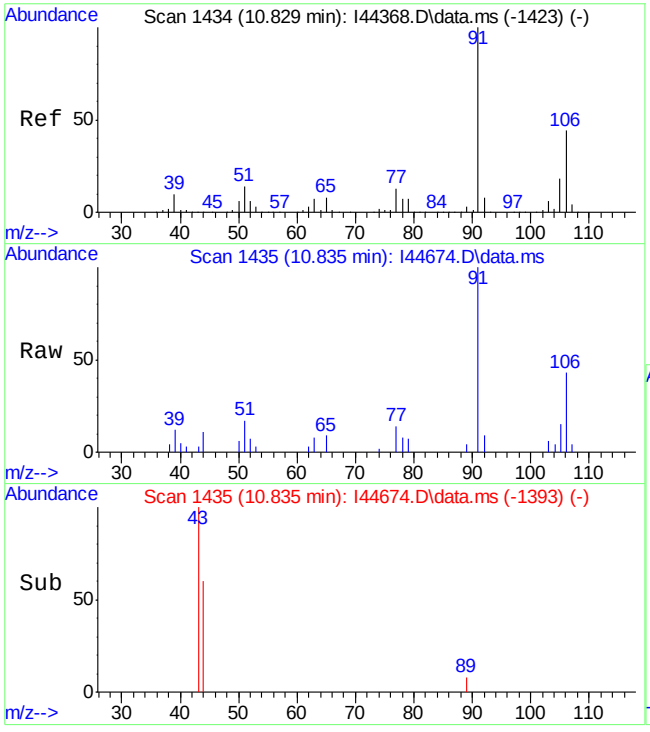


#73
m,p-Xylene
Concen: 1211.87 ug/L m
RT: 10.390 min Scan# 1362
Delta R.T. -0.000 min
Lab File: I44674.D
Acq: 30 Dec 2016 7:44 pm

Tgt Ion: 91 Resp:37935152

Ion	Ratio	Lower	Upper
91	100		
106	62.8	18.0	78.0
105	28.3	0.0	51.6

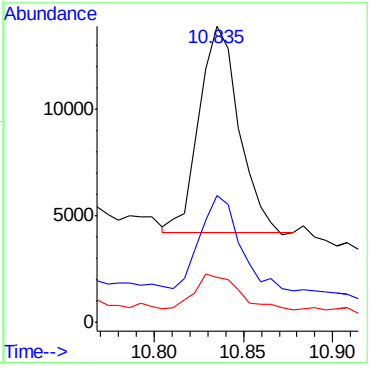


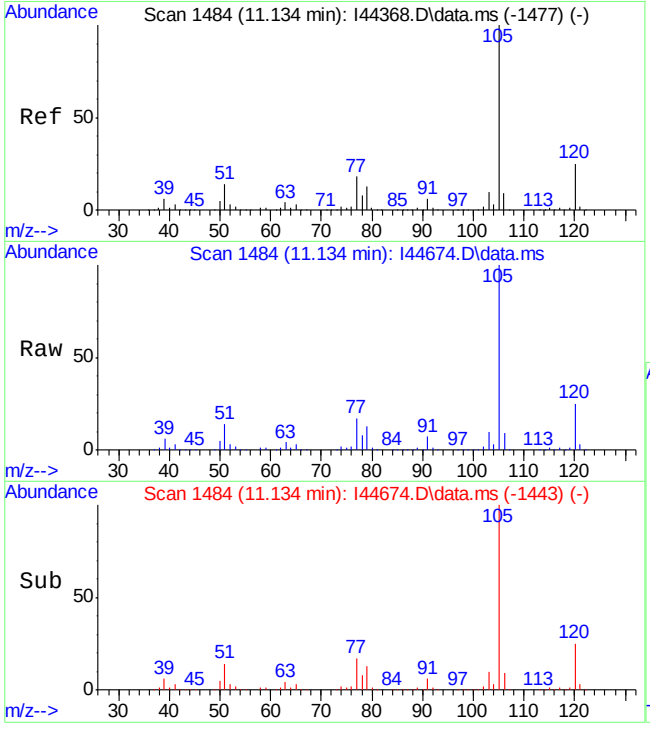


#74
o-Xylene
Concen: 0.46 ug/L
RT: 10.835 min Scan# 1435
Delta R.T. 0.006 min
Lab File: I44674.D
Acq: 30 Dec 2016 7:44 pm

Tgt Ion: 91 Resp: 14993

Ion	Ratio	Lower	Upper
91	100		
106	46.1	14.5	74.5
105	15.5	0.0	48.0

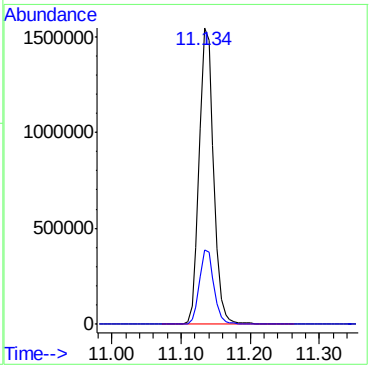


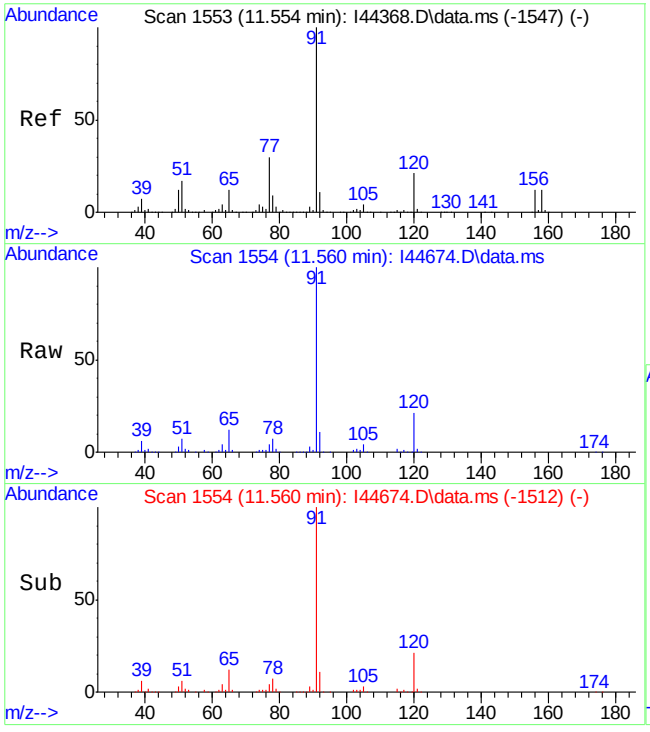


#77
Isopropylbenzene
Concen: 58.69 ug/L
RT: 11.134 min Scan# 1484
Delta R.T. -0.000 min
Lab File: I44674.D
Acq: 30 Dec 2016 7:44 pm

Tgt Ion:105 Resp: 2239994

Ion	Ratio	Lower	Upper
105	100		
120	24.9	0.0	55.3

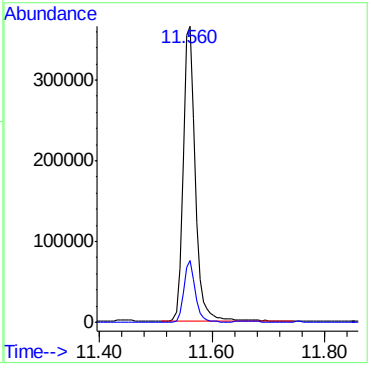


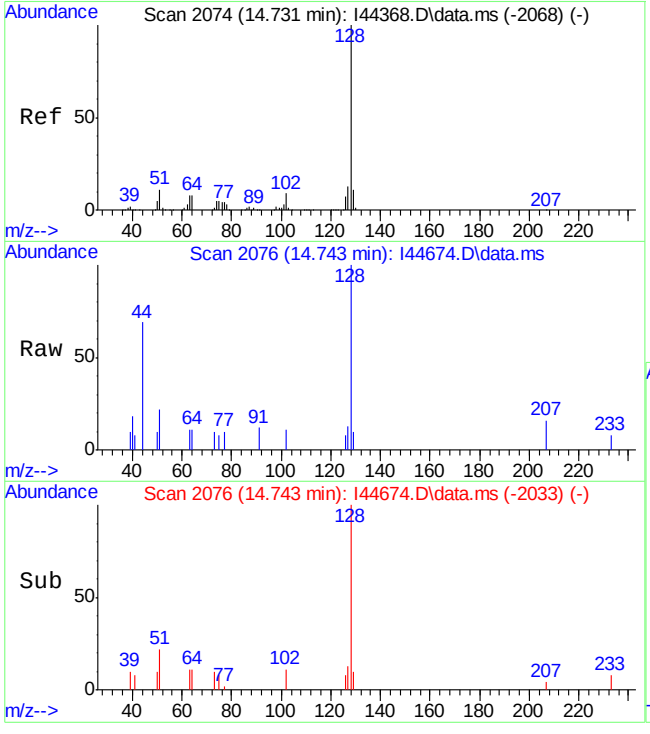


#81
n-Propylbenzene
Concen: 10.94 ug/L
RT: 11.560 min Scan# 1554
Delta R.T. 0.006 min
Lab File: I44674.D
Acq: 30 Dec 2016 7:44 pm

Tgt Ion: 91 Resp: 551841

Ion	Ratio	Lower	Upper
91	100		
120	21.1	0.0	50.6

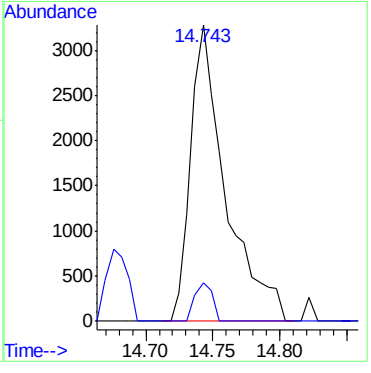


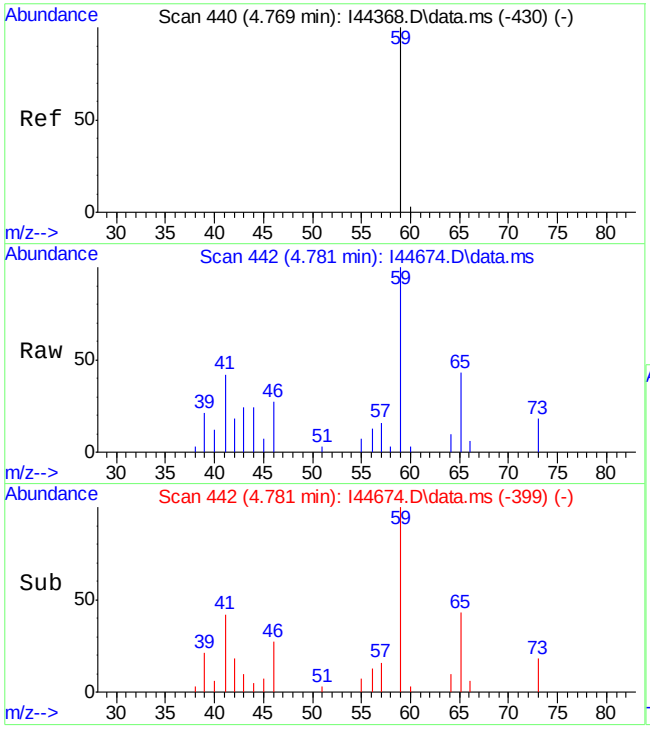


#104
Naphthalene
Concen: 0.23 ug/L
RT: 14.743 min Scan# 2076
Delta R.T. 0.012 min
Lab File: I44674.D
Acq: 30 Dec 2016 7:44 pm

Tgt Ion:128 Resp: 5967

Ion	Ratio	Lower	Upper
128	100		
127	13.1	0.0	42.5

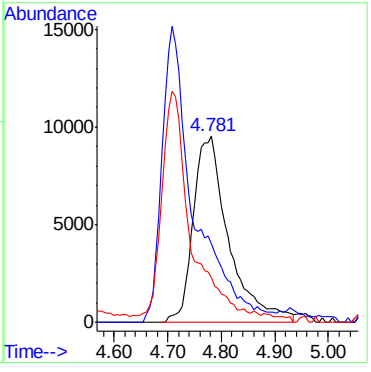


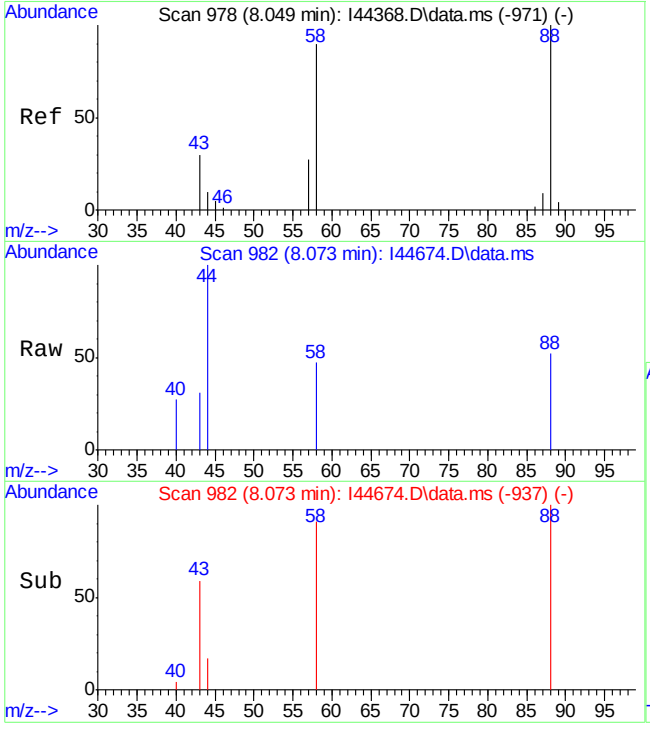


#109
Tert Butyl Alcohol
Concen: 57.21 ug/L
RT: 4.781 min Scan# 442
Delta R.T. 0.012 min
Lab File: I44674.D
Acq: 30 Dec 2016 7:44 pm

Tgt Ion: 59 Resp: 43625

Ion	Ratio	Lower	Upper
59	100		
41	35.6	0.0	20.0#
43	24.0	7.1	47.1

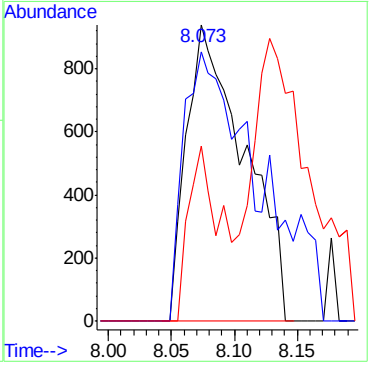




#112
1,4-Dioxane
Concen: 45.19 ug/L
RT: 8.073 min Scan# 982
Delta R.T. 0.024 min
Lab File: I44674.D
Acq: 30 Dec 2016 7:44 pm

Tgt Ion: 88 Resp: 3012

Ion	Ratio	Lower	Upper
88	100		
58	91.1	60.1	120.1
43	59.2	3.3	63.3



7.1.16

7

SGS ACCUTEST FA39742

Manual Integration Approval Summary

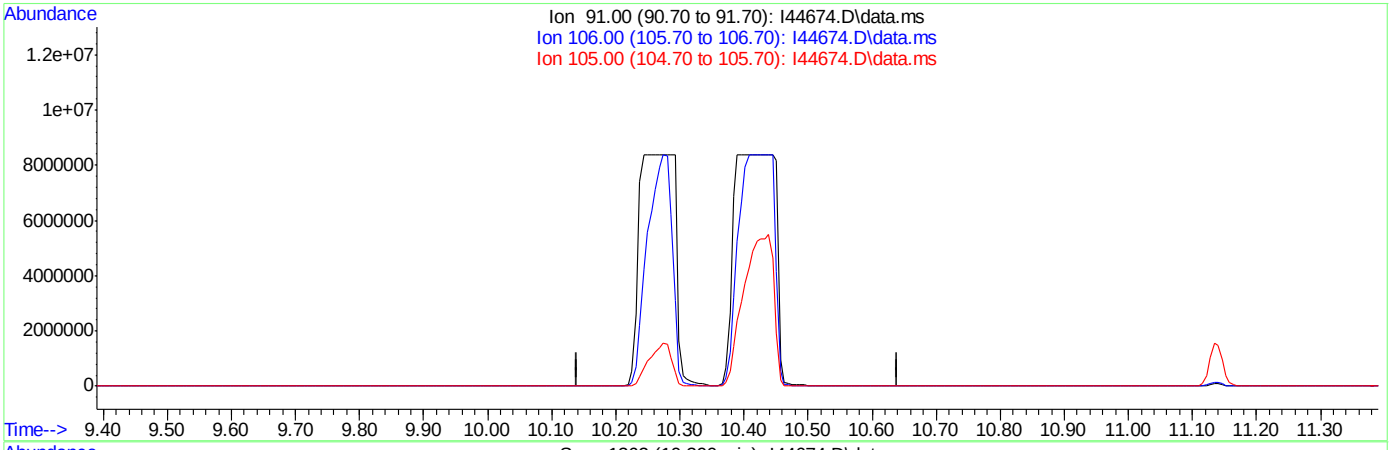
Sample Number:	FA39742-16	**Method:**	SW846 8260C
Lab FileID:	I44674.D	**Analyst approved:**	12/31/16 11:37 Wilfredo Vazquez
Injection Time:	12/30/16 19:44	**Supervisor approved:**	01/04/17 12:34 Juan Garcia

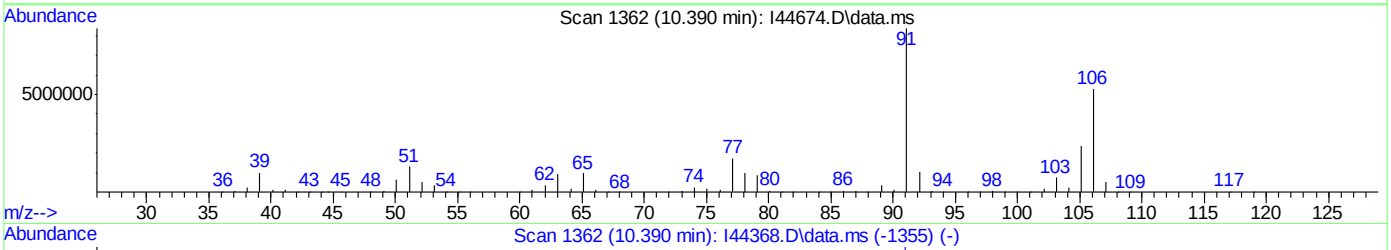
Parameter	CAS	Sig#	R.T. (min.)	Reason
Ethylbenzene	100-41-4		10.24	Missed peak
m,p-Xylene			10.39	Missed peak

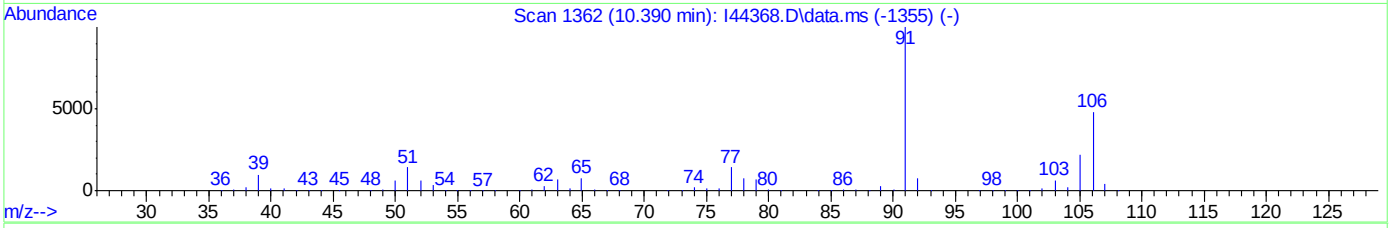
Quantitation Report (Qedit)

Data Path : C:\msdchem\2\DATA\123016\
Data File : I44674.D
Acq On : 30 Dec 2016 7:44 pm
Operator : WILFREDO
Sample : FA39742-16 MA Inst : MSVOA16
Misc : MS35976,VI1230,,,,,
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Dec 31 10:57:26 2016
Quant Method : C:\msdchem\2\METHODS\I-DEC22.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Dec 23 09:02:35 2016
Response via : Initial Calibration







TIC: I44674.D\data.ms

(73) m,p-Xylene ( )

10.390min (-10.390) 0.00ug/L

response 0

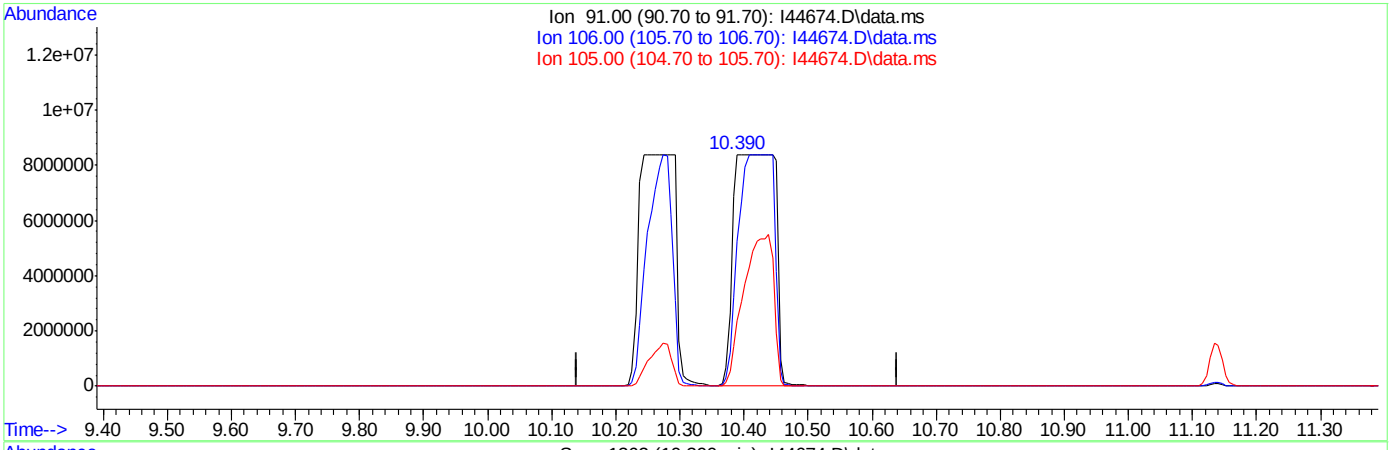
Ion	Exp%	Act%
91.00	100	0.00
106.00	48.00	0.00#
105.00	21.60	0.00
0.00	0.00	0.00

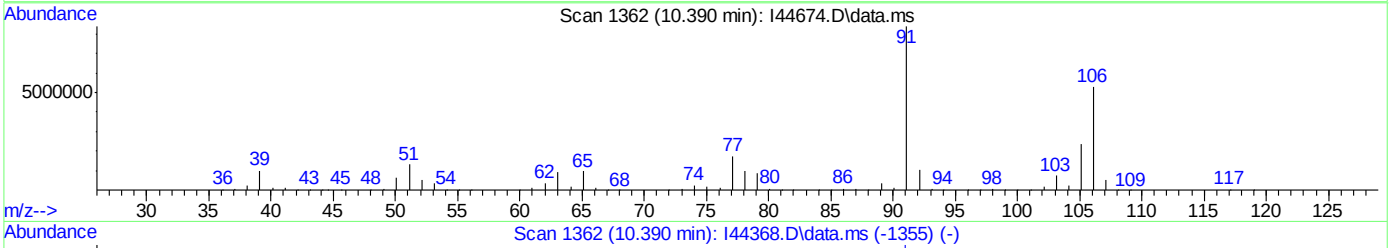
SGS ACCUTEST FA39742

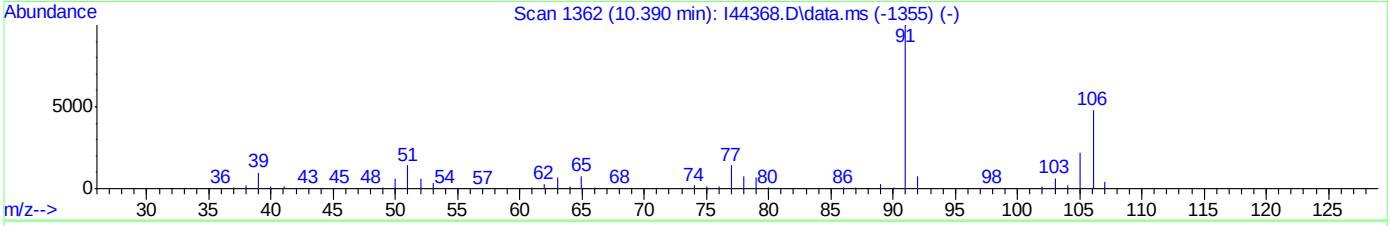
Quantitation Report (Qedit)

Data Path : C:\msdchem\2\DATA\123016\
Data File : I44674.D
Acq On : 30 Dec 2016 7:44 pm
Operator : WILFREDO
Sample : FA39742-16 MA Inst : MSVOA16
Misc : MS35976,VI1230,,,,,
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Dec 31 10:57:26 2016
Quant Method : C:\msdchem\2\METHODS\I-DEC22.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Dec 23 09:02:35 2016
Response via : Initial Calibration







TIC: I44674.D\data.ms

(73) m,p-Xylene ( )

10.390min (-0.000) 1211.87ug/L m

response 37935152

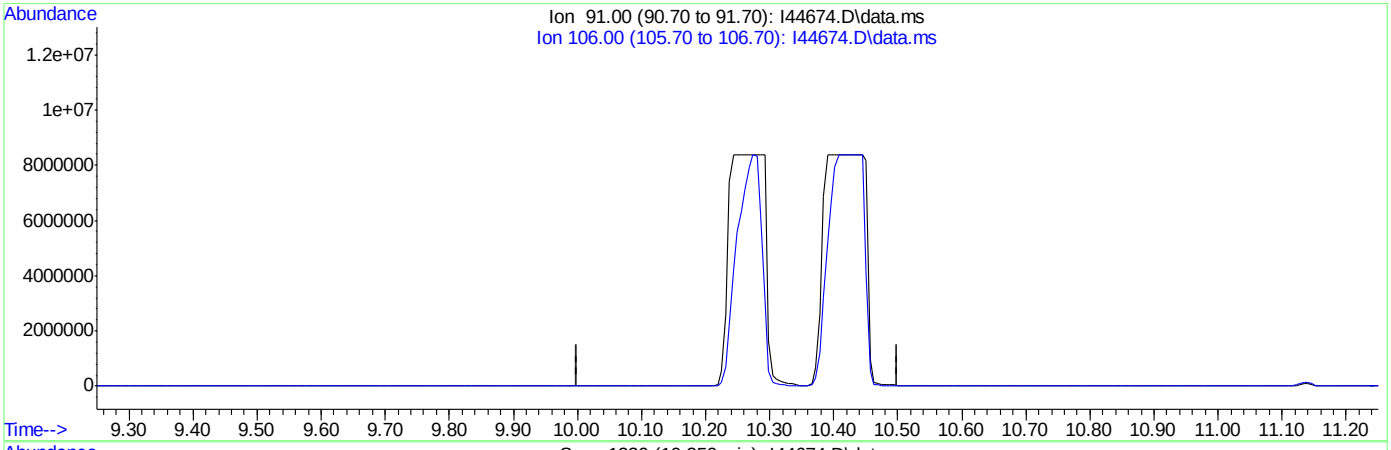
Ion	Exp%	Act%
91.00	100	100
106.00	48.00	62.78
105.00	21.60	28.29
0.00	0.00	0.00

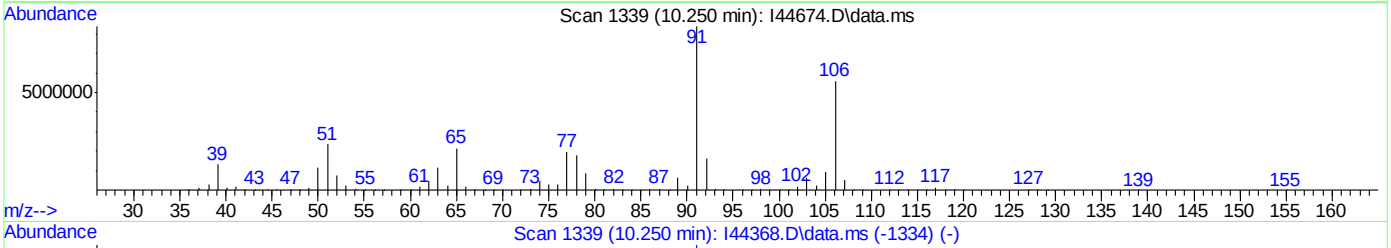
SGS ACCUTEST FA39742

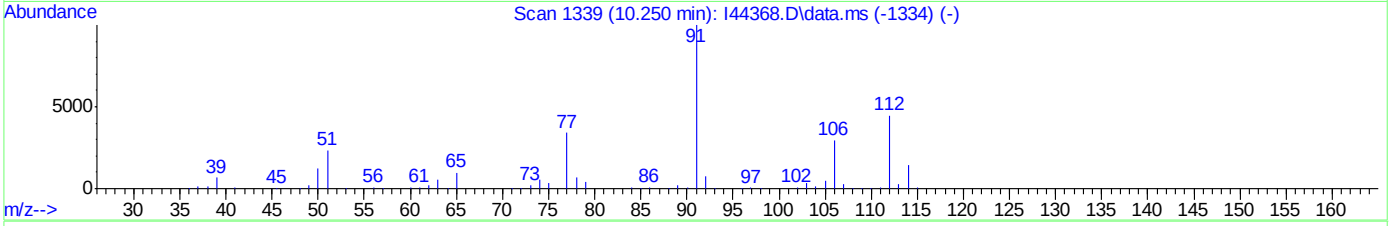
Quantitation Report (Qedit)

Data Path : C:\msdchem\2\DATA\123016\
Data File : I44674.D
Acq On : 30 Dec 2016 7:44 pm
Operator : WILFREDO
Sample : FA39742-16 MA Inst : MSVOA16
Misc : MS35976,VI1230,,,,,
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Dec 31 10:57:26 2016
Quant Method : C:\msdchem\2\METHODS\I-DEC22.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Dec 23 09:02:35 2016
Response via : Initial Calibration







TIC: I44674.D\data.ms

(70) Ethylbenzene (C)

10.250min (-10.250) 0.00ug/L

response 0

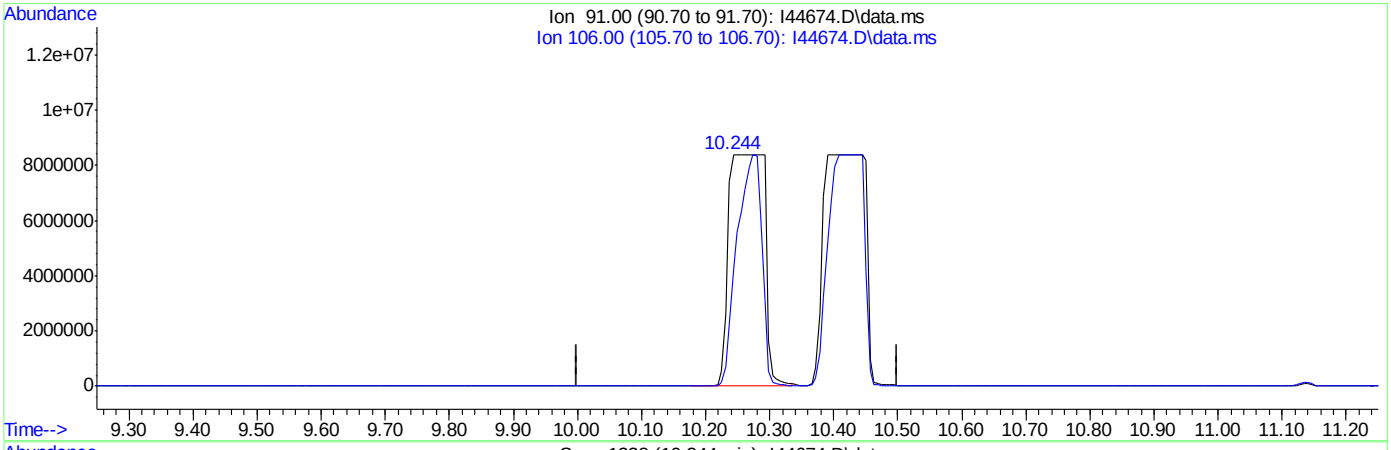
Ion	Exp%	Act%
91.00	100	0.00
106.00	29.50	0.00
0.00	0.00	0.00
0.00	0.00	0.00

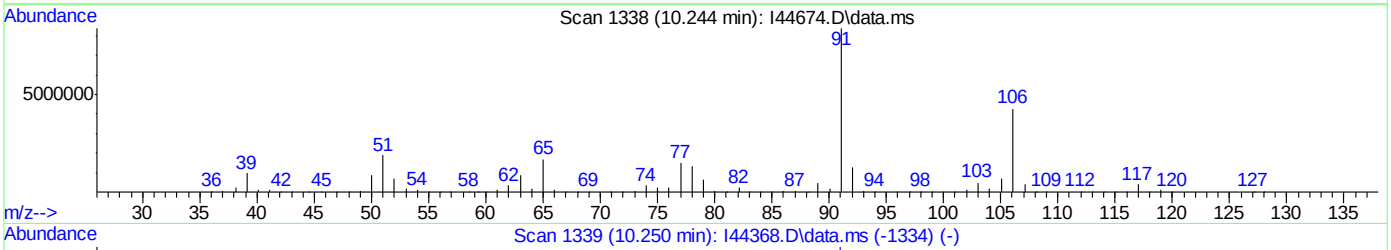
SGS ACCUTEST FA39742

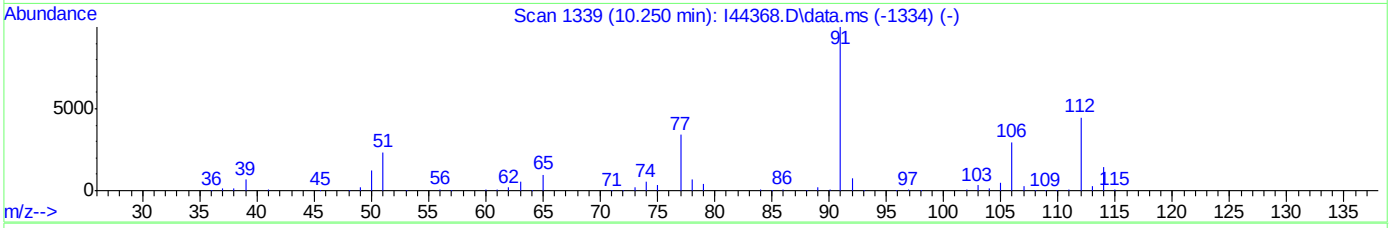
Quantitation Report (Qedit)

Data Path : C:\msdchem\2\DATA\123016\
Data File : I44674.D
Acq On : 30 Dec 2016 7:44 pm
Operator : WILFREDO
Sample : FA39742-16 MA Inst : MSVOA16
Misc : MS35976,VI1230,,,,,
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Dec 31 10:57:26 2016
Quant Method : C:\msdchem\2\METHODS\I-DEC22.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Dec 23 09:02:35 2016
Response via : Initial Calibration







TIC: I44674.D\data.ms

(70) Ethylbenzene (C)

10.244min (-0.006) 797.73ug/L m

response 32534807

Ion	Exp%	Act%
91.00	100	100
106.00	29.50	50.70
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\010317\
Data File : J0981938.D
Acq On : 3 Jan 2017 7:34 pm
Operator : darshnap
Sample : fa39742-16ma Inst : MSVOA6
Misc : MS35976,VJ5531,,,,,50
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Jan 04 09:46:24 2017
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jan 03 09:58:33 2017
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.734	96	554437	50.00	ug/L	0.00
56) Chlorobenzene-d5	10.824	117	397790	50.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	13.186	152	204752	50.00	ug/L	0.00
106) Tert Butyl Alcohol-d10	5.278	65	76375	250.00	ug/L	0.00
System Monitoring Compounds						
36) Dibromofluoromethane	6.905	113	133287	50.92	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 101.84%			
46) 1,2-Dichloroethane-d4	7.458	65	199181	56.59	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 113.18%			
57) Toluene-d8	9.279	98	538295	50.95	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 101.90%			
79) 4-Bromofluorobenzene	12.035	95	216218	52.94	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 105.88%			
Target Compounds						Qvalue
16) Methylene Chloride	5.025	49	20358	2.29	ug/L	94
70) Ethylbenzene	10.842	91	1476134	66.78	ug/L	99
73) m,p-Xylene	10.977	91	2041208	119.17	ug/L	99
77) Isopropylbenzene	11.723	105	25971	1.10	ug/L	100
81) n-Propylbenzene	12.146	91	6353	0.23	ug/L	70

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

7.1.17

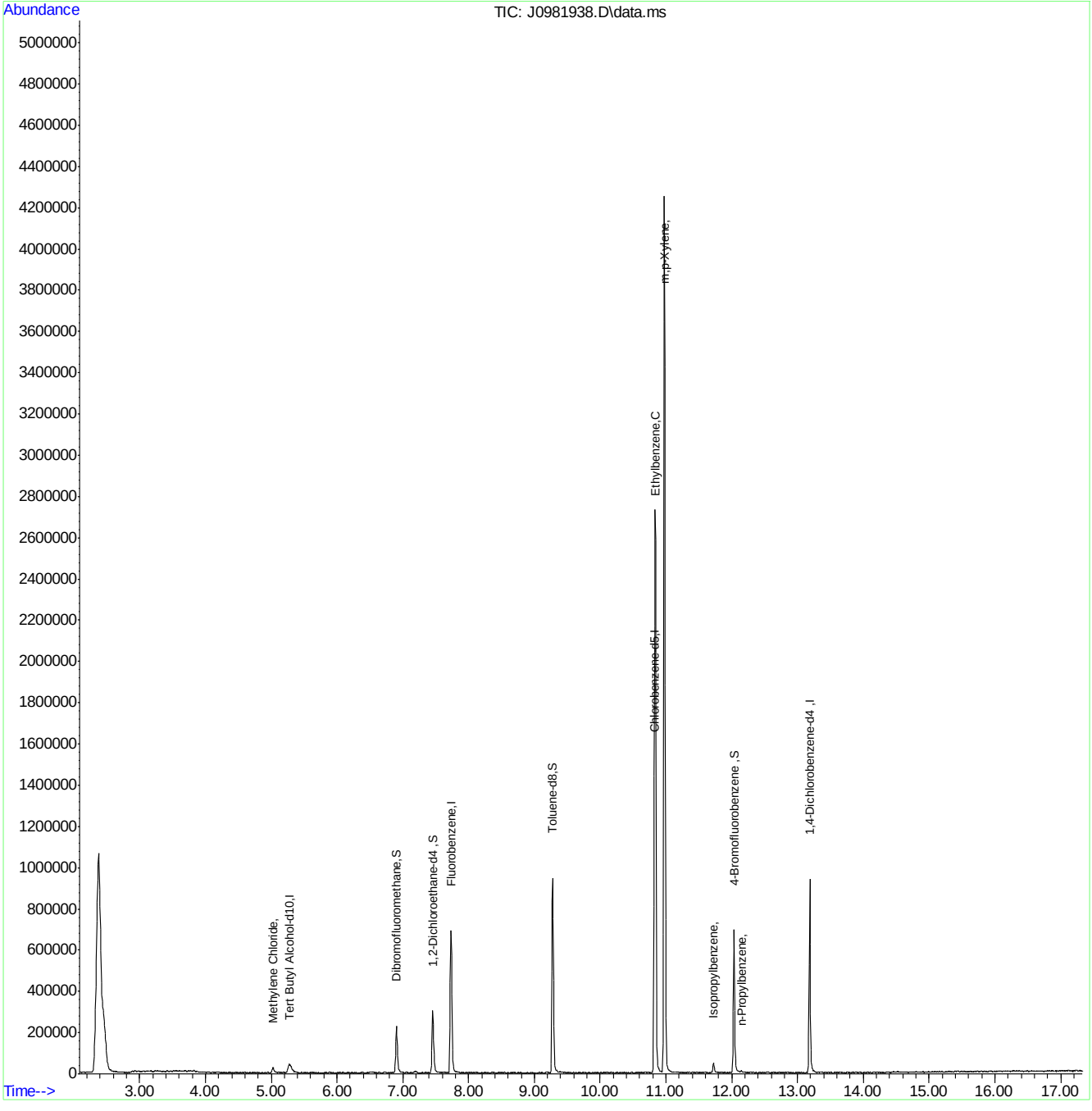
7

SGS ACCUTEST FA39742

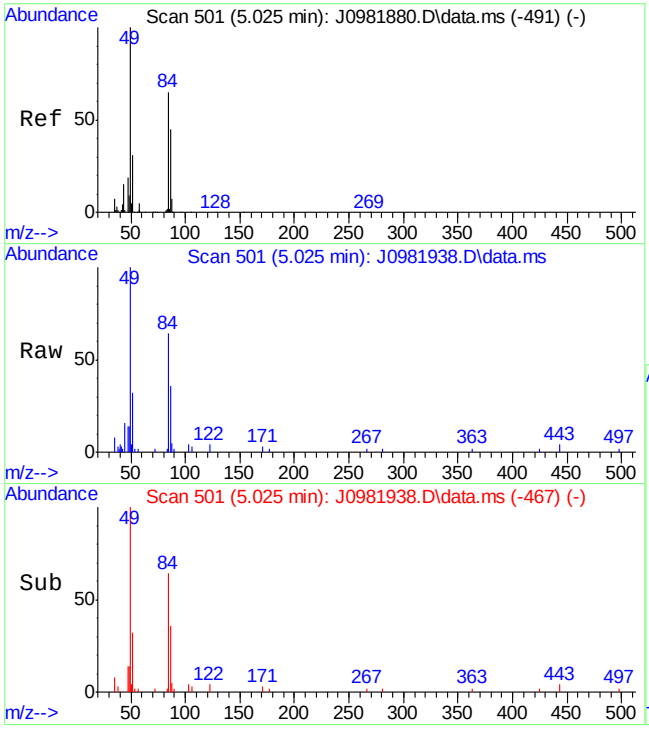
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\010317\
Data File : J0981938.D
Acq On : 3 Jan 2017 7:34 pm
Operator : darshnap
Sample : fa39742-16ma Inst : MSVOA6
Misc : MS35976,VJ5531,,,,,50
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Jan 04 09:46:24 2017
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jan 03 09:58:33 2017
Response via : Initial Calibration



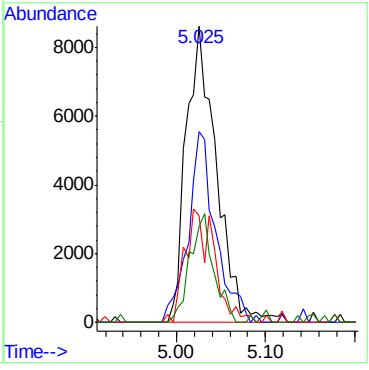
SGS ACCUTEST FA39742

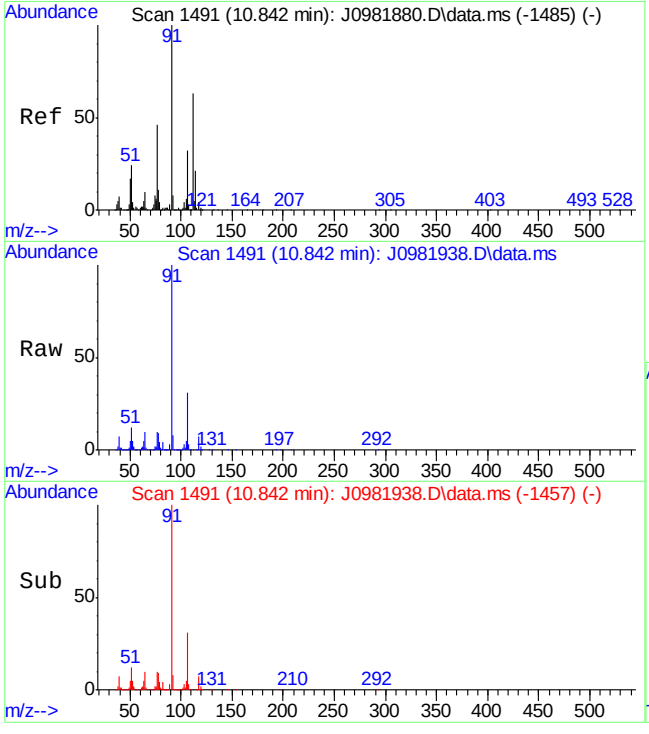


#16
Methylene Chloride
Concen: 2.29 ug/L
RT: 5.025 min Scan# 501
Delta R.T. 0.000 min
Lab File: J0981938.D
Acq: 3 Jan 2017 7:34 pm

Tgt Ion: 49 Resp: 20358

Ion	Ratio	Lower	Upper
49	100		
84	64.4	35.3	95.3
86	35.9	15.3	75.3
51	32.1	0.9	60.9

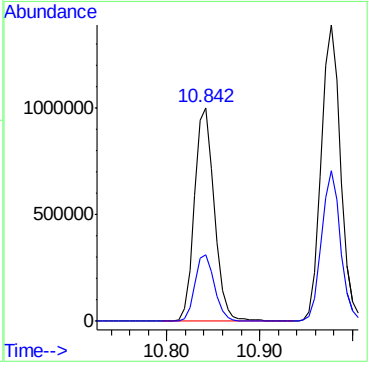


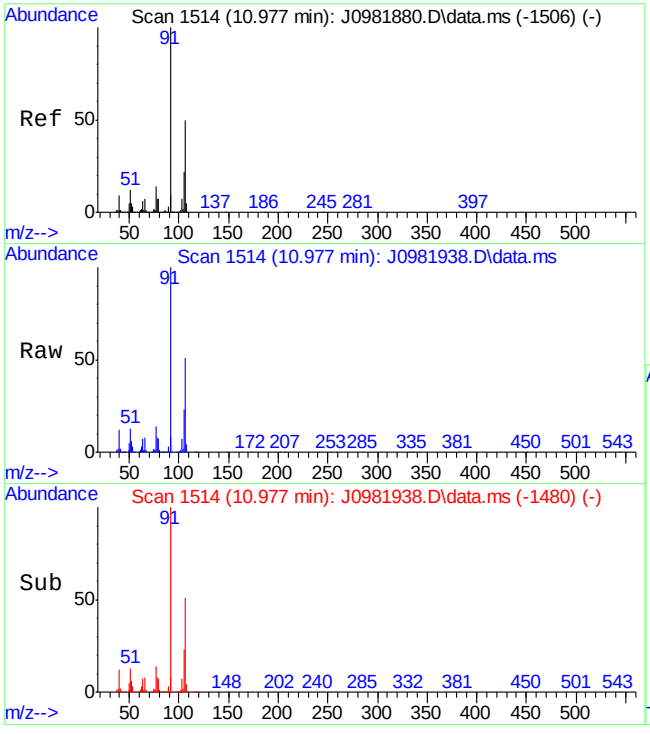


#70
Ethylbenzene
Concen: 66.78 ug/L
RT: 10.842 min Scan# 1491
Delta R.T. -0.000 min
Lab File: J0981938.D
Acq: 3 Jan 2017 7:34 pm

Tgt Ion: 91 Resp: 1476134

Ion	Ratio	Lower	Upper
91	100		
106	31.3	2.0	62.0

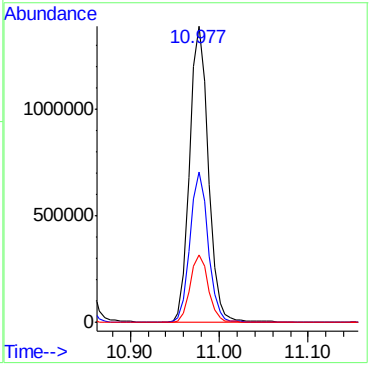


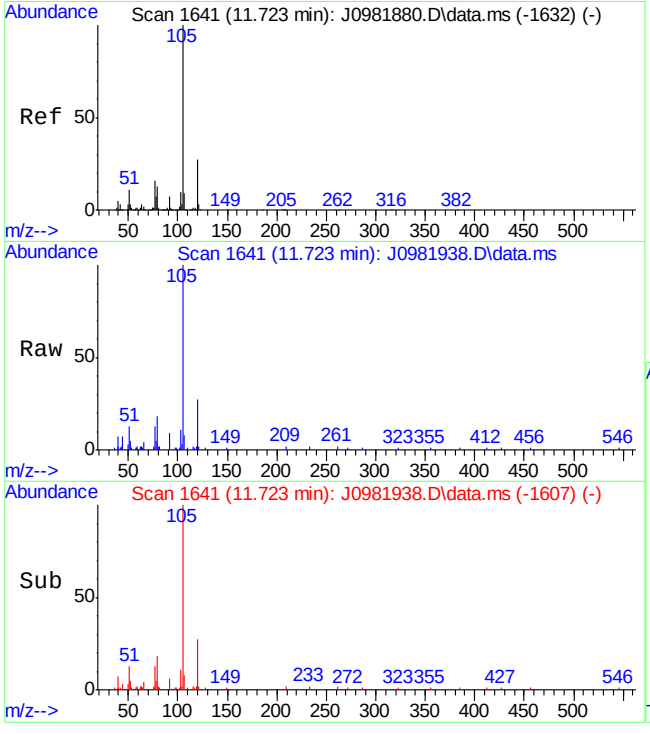


#73
m,p-Xylene
Concen: 119.17 ug/L
RT: 10.977 min Scan# 1514
Delta R.T. 0.000 min
Lab File: J0981938.D
Acq: 3 Jan 2017 7:34 pm

Tgt Ion: 91 Resp: 2041208

Ion	Ratio	Lower	Upper
91	100		
106	51.0	19.7	79.7
105	22.6	0.0	52.3

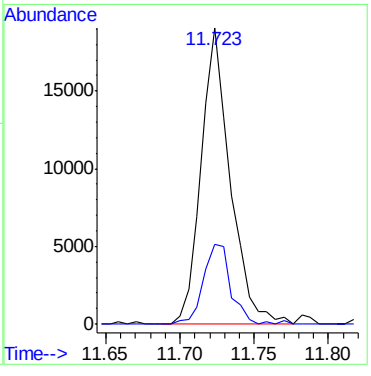


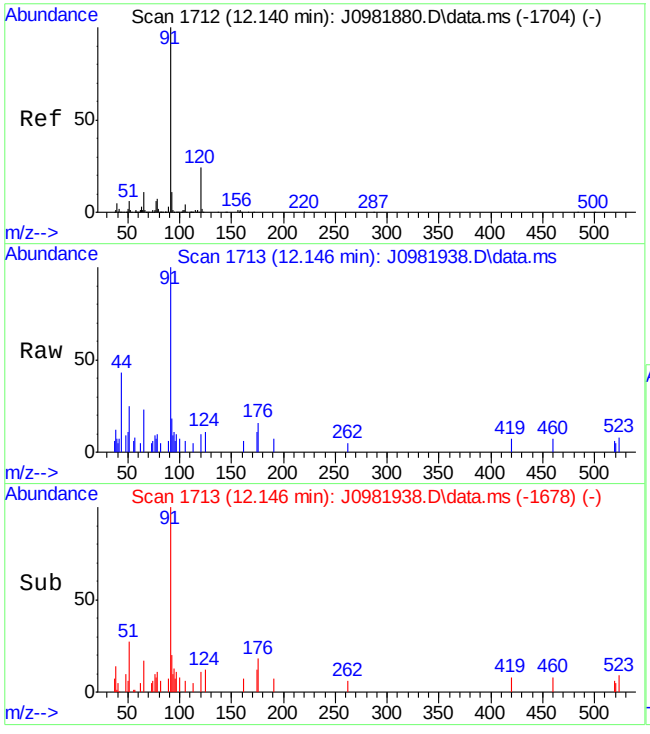


#77
Isopropylbenzene
Concen: 1.10 ug/L
RT: 11.723 min Scan# 1641
Delta R.T. 0.000 min
Lab File: J0981938.D
Acq: 3 Jan 2017 7:34 pm

Tgt Ion:105 Resp: 25971

Ion	Ratio	Lower	Upper
105	100		
120	26.8	0.0	56.6

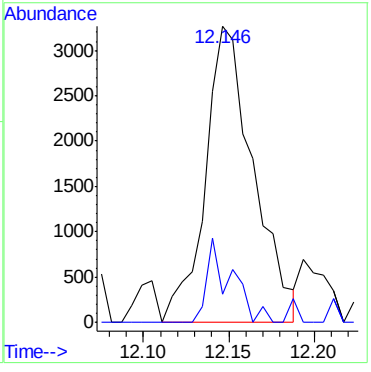




#81
n-Propylbenzene
Concen: 0.23 ug/L
RT: 12.146 min Scan# 1713
Delta R.T. 0.006 min
Lab File: J0981938.D
Acq: 3 Jan 2017 7:34 pm

Tgt Ion: 91 Resp: 6353

Ion	Ratio	Lower	Upper
91	100		
120	9.6	0.0	54.3



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\123016\
Data File : I44675.D
Acq On : 30 Dec 2016 8:08 pm
Operator : WILFREDO
Sample : FA39742-17 MA Inst : MSVOA16
Misc : MS35976,VI1230,,,,,
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Dec 31 11:28:20 2016
Quant Method : C:\msdchem\2\METHODS\I-DEC22.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Dec 23 09:02:35 2016
Response via : Initial Calibration

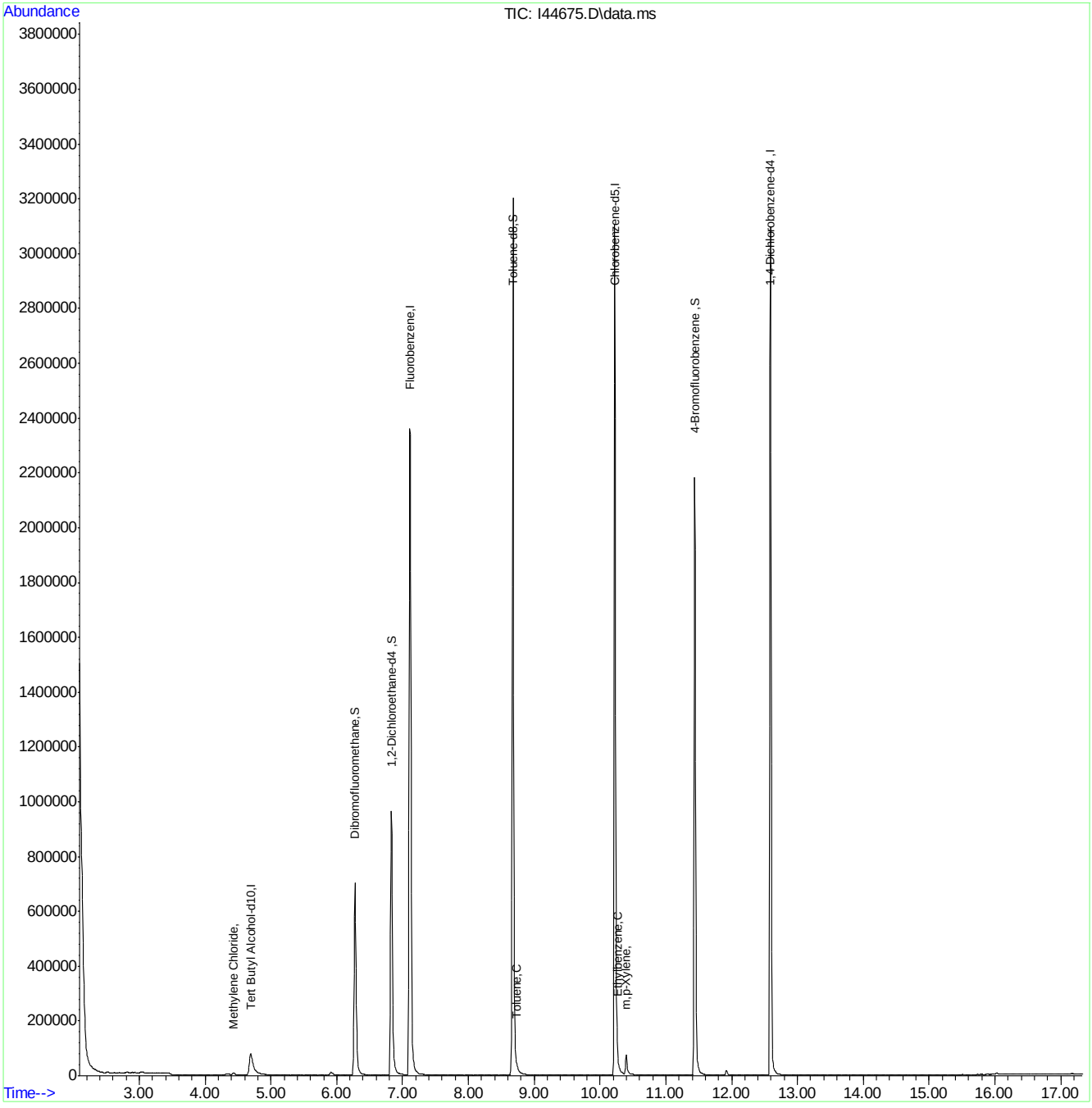
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.116	96	1994749	50.00	ug/L	0.00
56) Chlorobenzene-d5	10.225	117	1300625	50.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	12.591	152	601838	50.00	ug/L	0.00
106) Tert Butyl Alcohol-d10	4.696	65	159758	250.00	ug/L	0.00
System Monitoring Compounds						
36) Dibromofluoromethane	6.275	113	485171	48.18	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 96.36%			
46) 1,2-Dichloroethane-d4	6.830	65	716971	50.41	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 100.82%			
57) Toluene-d8	8.677	98	1818929	51.14	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 102.28%			
79) 4-Bromofluorobenzene	11.439	174	425151	48.50	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 97.00%			
Target Compounds						Qvalue
16) Methylene Chloride	4.434	49	6298	0.34	ug/L	99
58) Toluene	8.738	91	12016	0.33	ug/L	97
70) Ethylbenzene	10.262	91	38994	0.94	ug/L	99
73) m,p-Xylene	10.396	91	46339	1.46	ug/L	98

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

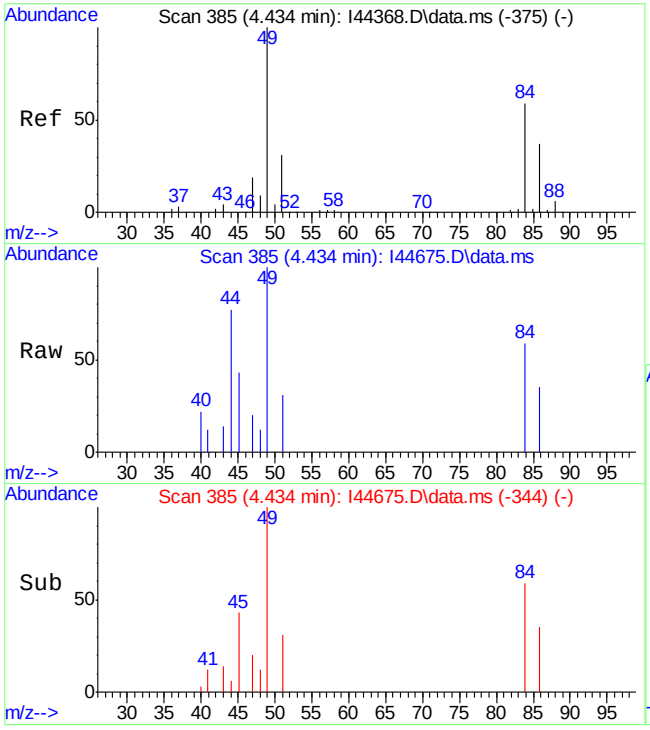
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\123016\
Data File : I44675.D
Acq On : 30 Dec 2016 8:08 pm
Operator : WILFREDO
Sample : FA39742-17 MA Inst : MSVOA16
Misc : MS35976,VI1230,,,,,
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Dec 31 11:28:20 2016
Quant Method : C:\msdchem\2\METHODS\I-DEC22.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Dec 23 09:02:35 2016
Response via : Initial Calibration



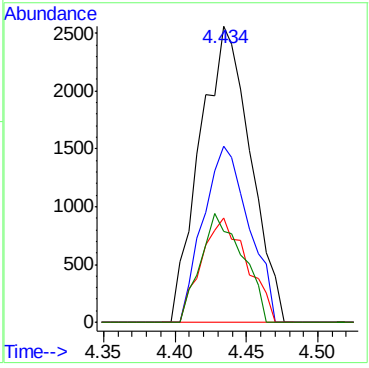
SGS ACCUTEST FA39742

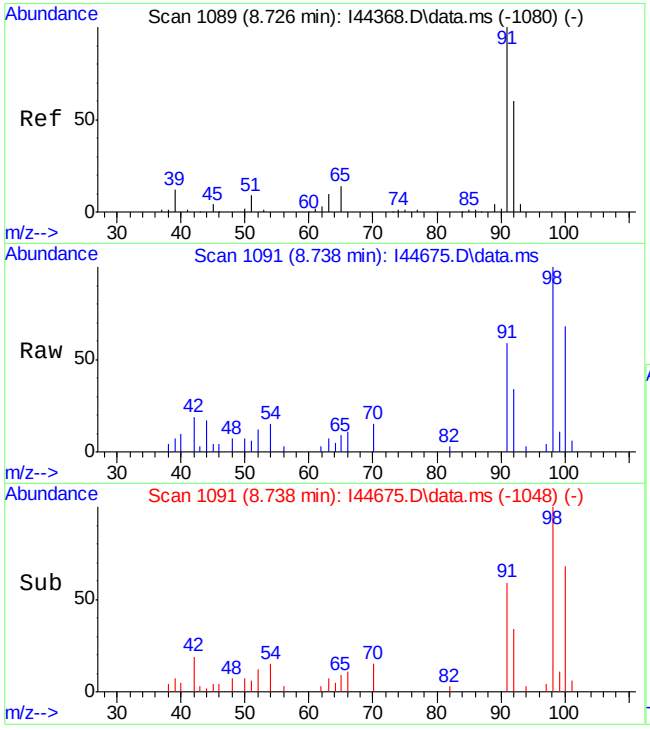


#16
Methylene Chloride
Concen: 0.34 ug/L
RT: 4.434 min Scan# 385
Delta R.T. -0.000 min
Lab File: I44675.D
Acq: 30 Dec 2016 8:08 pm

Tgt Ion: 49 Resp: 6298

Ion	Ratio	Lower	Upper
49	100		
84	59.4	28.9	88.9
86	35.4	7.2	67.2
51	30.9	1.3	61.3

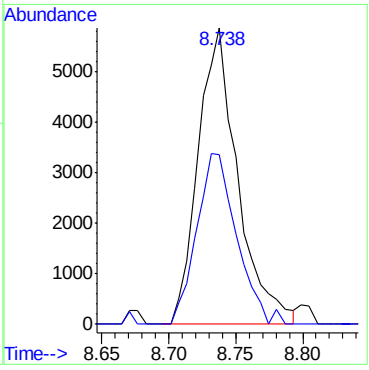


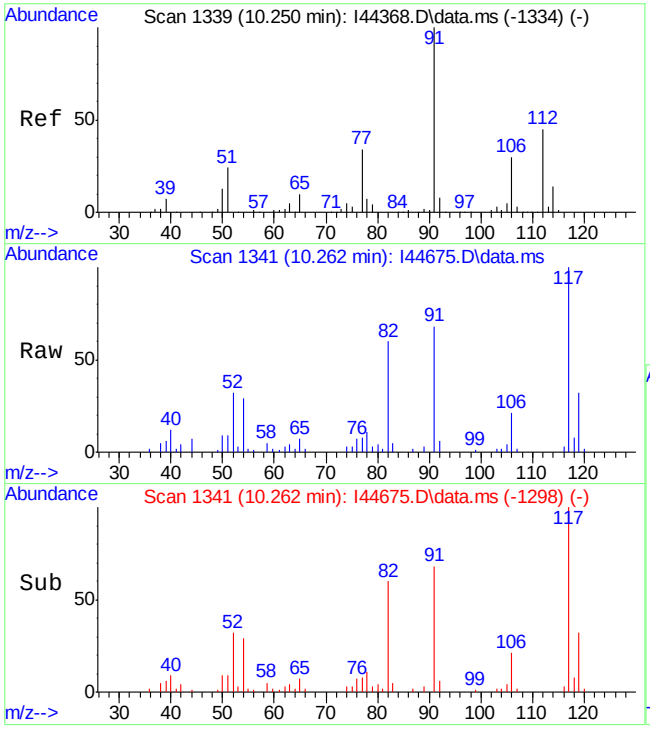


#58
Toluene
Concen: 0.33 ug/L
RT: 8.738 min Scan# 1091
Delta R.T. 0.012 min
Lab File: I44675.D
Acq: 30 Dec 2016 8:08 pm

Tgt Ion: 91 Resp: 12016

Ion	Ratio	Lower	Upper
91	100		
92	57.4	29.7	89.7

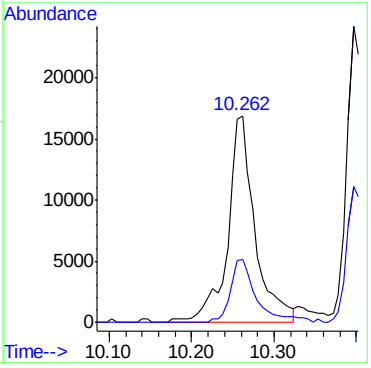


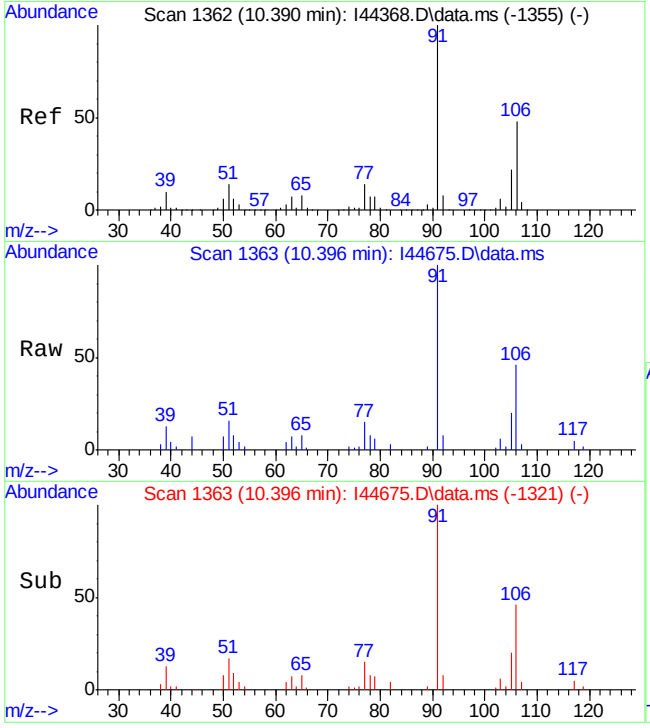


#70
Ethylbenzene
Concen: 0.94 ug/L
RT: 10.262 min Scan# 1341
Delta R.T. 0.012 min
Lab File: I44675.D
Acq: 30 Dec 2016 8:08 pm

Tgt Ion: 91 Resp: 38994

Ion	Ratio	Lower	Upper
91	100		
106	30.2	0.0	59.5

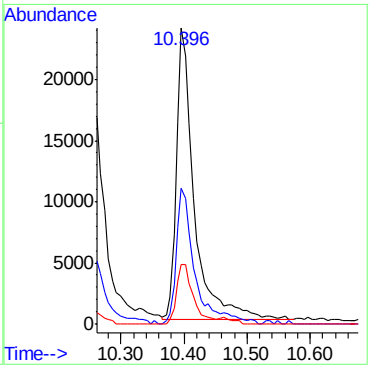




#73
m,p-Xylene
Concen: 1.46 ug/L
RT: 10.396 min Scan# 1363
Delta R.T. 0.006 min
Lab File: I44675.D
Acq: 30 Dec 2016 8:08 pm

Tgt Ion: 91 Resp: 46339

Ion	Ratio	Lower	Upper
91	100		
106	46.7	18.0	78.0
105	20.5	0.0	51.6



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\010417\
Data File : J0981950.D
Acq On : 4 Jan 2017 11:25 am
Operator : darshnap
Sample : fa39742-17 ma Inst : MSVOA6
Misc : MS35976,VJ5532,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 04 13:23:26 2017
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jan 03 08:23:52 2017
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.734	96	693102	50.00	ug/L	0.00
56) Chlorobenzene-d5	10.825	117	492139	50.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	13.186	152	245507	50.00	ug/L	0.00
106) Tert Butyl Alcohol-d10	5.266	65	95299	250.00	ug/L	-0.01
System Monitoring Compounds						
36) Dibromofluoromethane	6.900	113	166179	50.79	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 101.58%			
46) 1,2-Dichloroethane-d4	7.452	65	242324	55.07	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 110.14%			
57) Toluene-d8	9.279	98	651167	49.82	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 99.64%			
79) 4-Bromofluorobenzene	12.035	95	262811	53.67	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 107.34%			
Target Compounds						Qvalue
58) Toluene	9.332	91	6745	0.28	ug/L	90

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

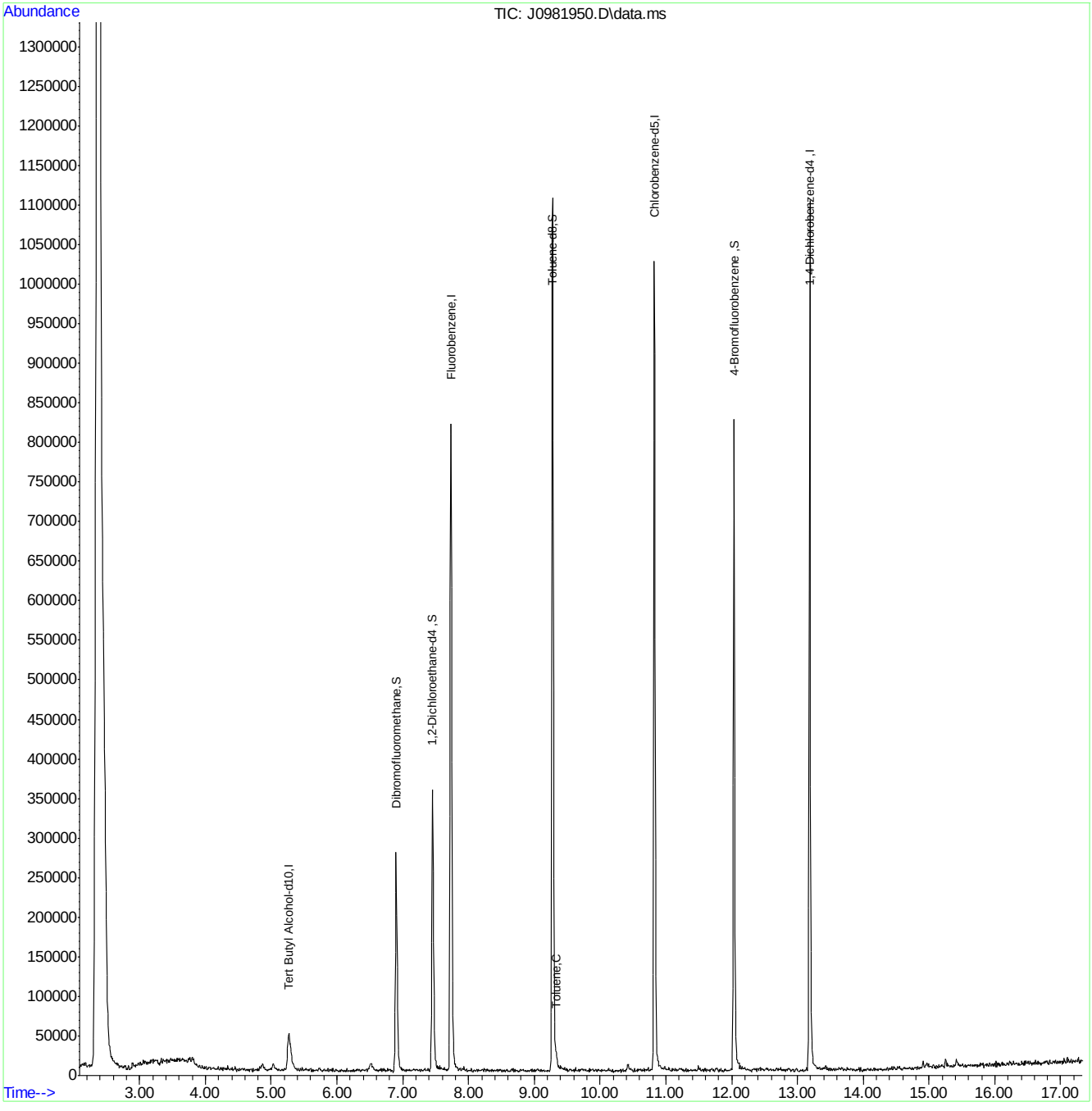
7.1.19

7

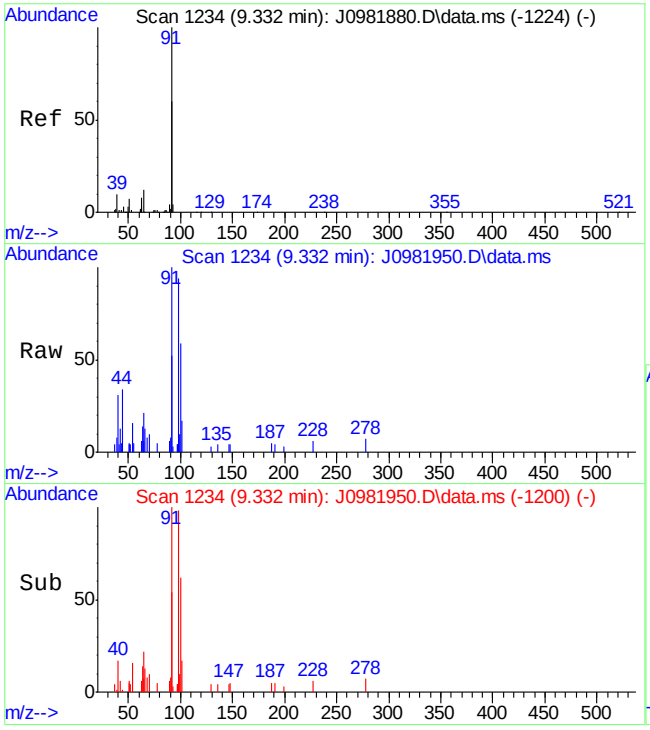
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\010417\
Data File : J0981950.D
Acq On : 4 Jan 2017 11:25 am
Operator : darshnap
Sample : fa39742-17 ma Inst : MSVOA6
Misc : MS35976,VJ5532,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 04 13:23:26 2017
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jan 03 08:23:52 2017
Response via : Initial Calibration



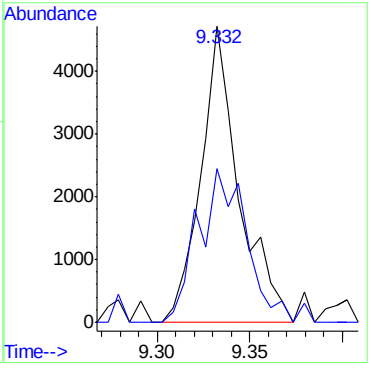
MSJ123016.M Thu Jan 05 08:02:30 2017 Page: 2



#58
Toluene
Concen: 0.28 ug/L
RT: 9.332 min Scan# 1234
Delta R.T. 0.000 min
Lab File: J0981950.D
Acq: 4 Jan 2017 11:25 am

Tgt Ion: 91 Resp: 6745

Ion	Ratio	Lower	Upper
91	100		
92	52.0	29.9	89.9



7.1.19

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\122816\
Data File : I44537.D
Acq On : 28 Dec 2016 9:45 am
Operator : WILFREDO
Sample : MB Inst : MSVOA16
Misc : MS35920,VI1222,,,,,
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Dec 28 15:08:02 2016
Quant Method : C:\msdchem\2\METHODS\I-DEC22.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Dec 23 09:02:35 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.116	96	2339711	50.00	ug/L	0.00
56) Chlorobenzene-d5	10.225	117	1543186	50.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	12.591	152	733405	50.00	ug/L	0.00
106) Tert Butyl Alcohol-d10	4.696	65	189402	250.00	ug/L	0.00
System Monitoring Compounds						
36) Dibromofluoromethane	6.275	113	569917	48.25	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 96.50%			
46) 1,2-Dichloroethane-d4	6.830	65	810637	48.60	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 97.20%			
57) Toluene-d8	8.677	98	2117424	50.18	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 100.36%			
79) 4-Bromofluorobenzene	11.439	174	538333	50.40	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 100.80%			
Target Compounds						Qvalue
16) Methylene Chloride	4.434	49	5738	0.27	ug/L	93
102) Hexachlorobutadiene	14.414	225	2859	0.53	ug/L	92
105) 1,2,3-Trichlorobenzene	14.895	180	2659	0.25	ug/L	93

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

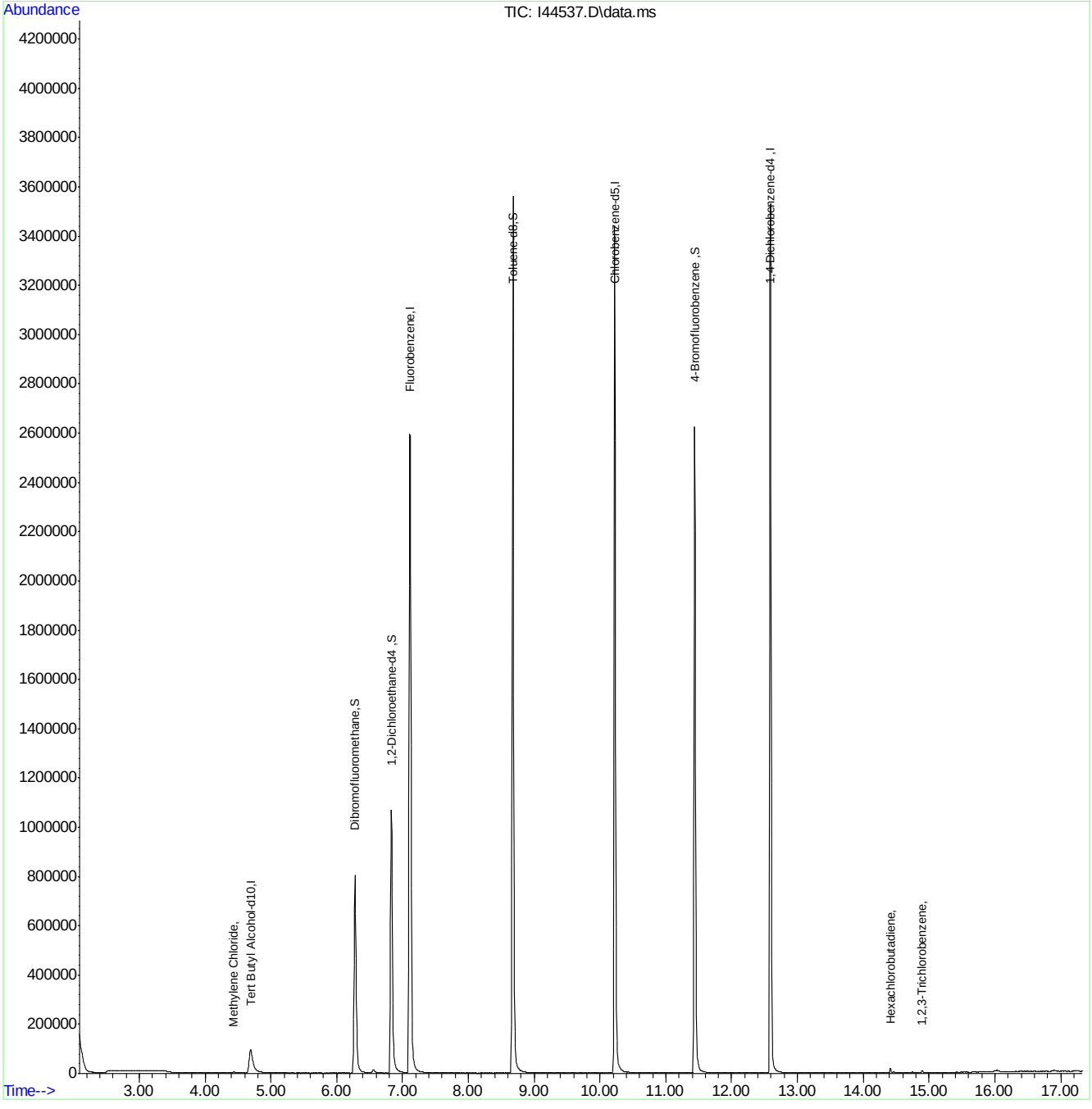
7.2.1

7

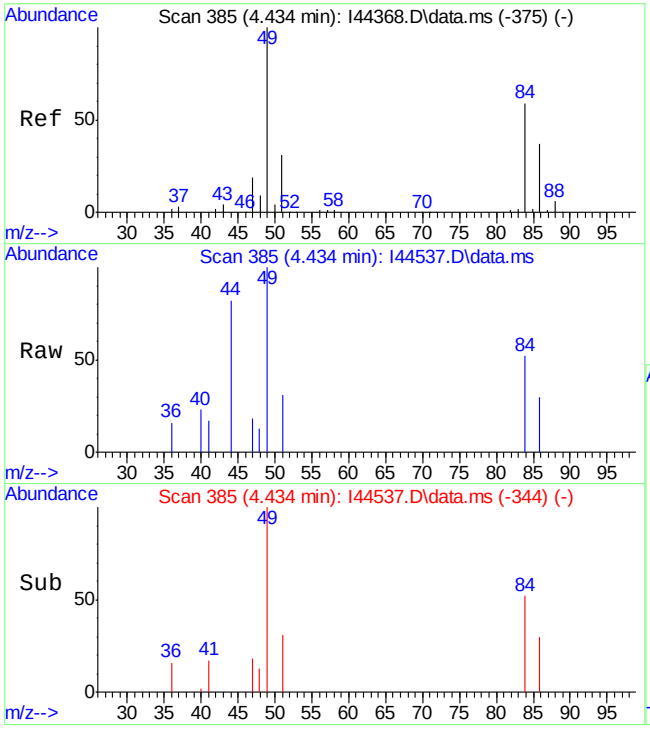
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\122816\
Data File : I44537.D
Acq On : 28 Dec 2016 9:45 am
Operator : WILFREDO
Sample : MB Inst : MSVOA16
Misc : MS35920,VI1222,,,,,
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Dec 28 15:08:02 2016
Quant Method : C:\msdchem\2\METHODS\I-DEC22.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Dec 23 09:02:35 2016
Response via : Initial Calibration



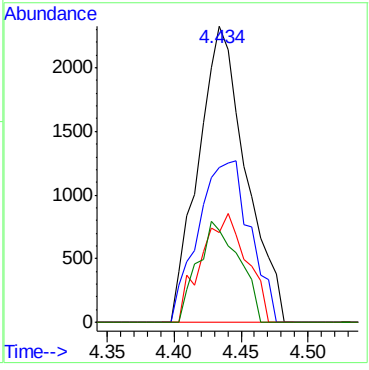
SGS ACCUTEST FA39742

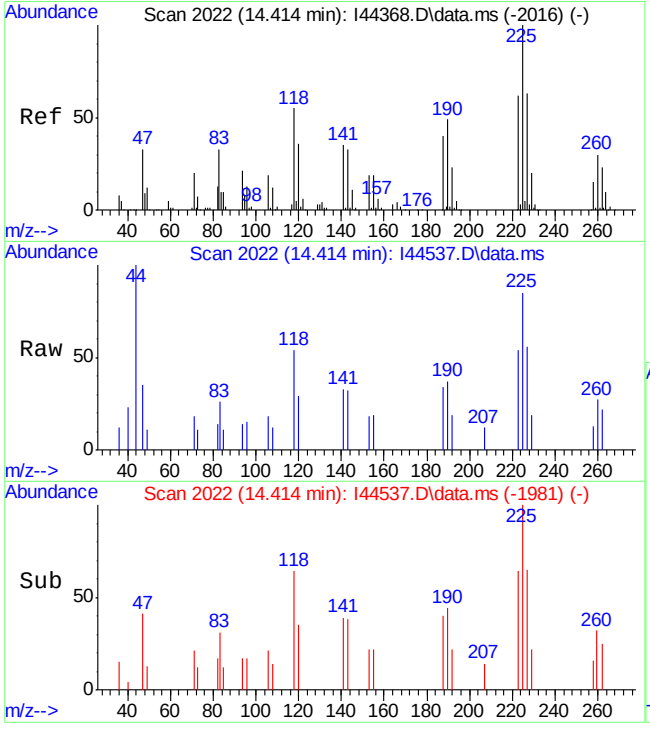


#16
Methylene Chloride
Concen: 0.27 ug/L
RT: 4.434 min Scan# 385
Delta R.T. -0.000 min
Lab File: I44537.D
Acq: 28 Dec 2016 9:45 am

Tgt Ion: 49 Resp: 5738

Ion	Ratio	Lower	Upper
49	100		
84	52.5	28.9	88.9
86	30.5	7.2	67.2
51	31.2	1.3	61.3

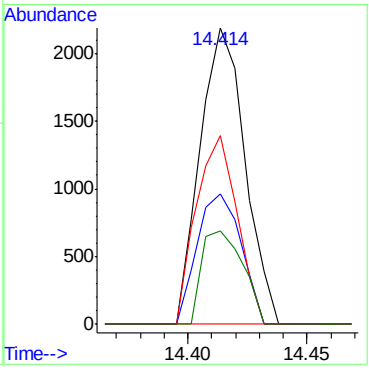




#102
Hexachlorobutadiene
Concen: 0.53 ug/L
RT: 14.414 min Scan# 2022
Delta R.T. -0.000 min
Lab File: I44537.D
Acq: 28 Dec 2016 9:45 am

Tgt Ion:225 Resp: 2859

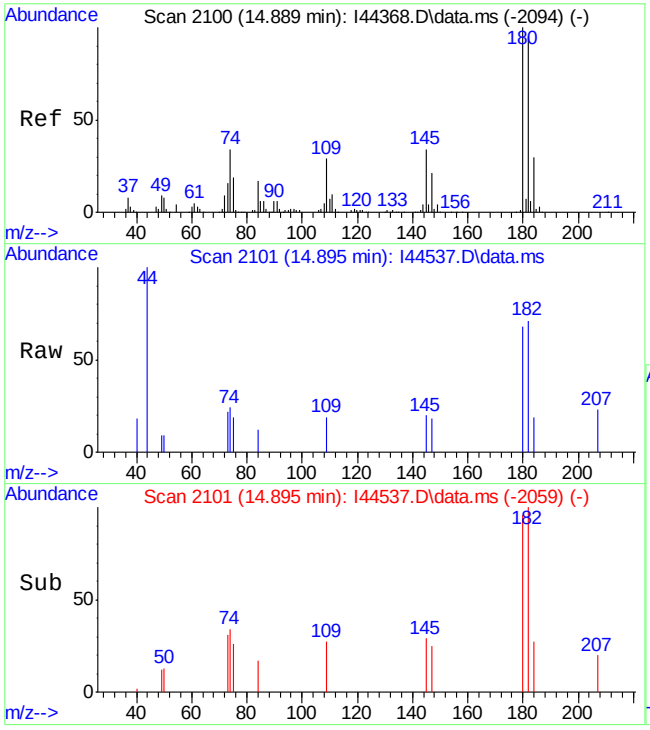
Ion	Ratio	Lower	Upper
225	100		
190	43.9	18.7	78.7
118	63.7	25.3	85.3
260	31.6	0.0	59.6



7.2.1

7

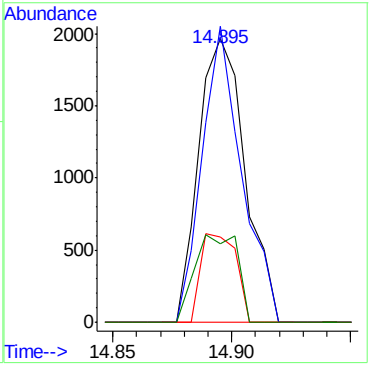
SGS ACCUTEST FA39742



#105
1,2,3-Trichlorobenzene
Concen: 0.25 ug/L
RT: 14.895 min Scan# 2101
Delta R.T. 0.006 min
Lab File: I44537.D
Acq: 28 Dec 2016 9:45 am

Tgt Ion:180 Resp: 2659

Ion	Ratio	Lower	Upper
180	100		
182	104.3	65.3	125.3
145	30.1	3.7	63.7
109	27.8	0.0	59.0



7.2.1

7

SGS ACCUTEST FA39742

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\122916\
Data File : I44594.D
Acq On : 29 Dec 2016 9:20 am
Operator : WILFREDO
Sample : MB Inst : MSVOA16
Misc : MS35941,VI1226,,,,,
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Dec 29 13:08:13 2016
Quant Method : C:\msdchem\2\METHODS\I-DEC22.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Dec 23 09:02:35 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.116	96	2210840	50.00	ug/L	0.00
56) Chlorobenzene-d5	10.225	117	1488655	50.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	12.591	152	714571	50.00	ug/L	0.00
106) Tert Butyl Alcohol-d10	4.690	65	190110	250.00	ug/L	0.00
System Monitoring Compounds						
36) Dibromofluoromethane	6.275	113	529059	47.40	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 94.80%			
46) 1,2-Dichloroethane-d4	6.830	65	781188	49.56	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 99.12%			
57) Toluene-d8	8.677	98	2021247	49.65	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 99.30%			
79) 4-Bromofluorobenzene	11.439	174	509356	48.94	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 97.88%			
Target Compounds						Qvalue
102) Hexachlorobutadiene	14.414	225	2776	0.53	ug/L	97
104) Naphthalene	14.743	128	6038	0.21	ug/L	97
105) 1,2,3-Trichlorobenzene	14.895	180	2736	0.26	ug/L	93

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

7.2.2

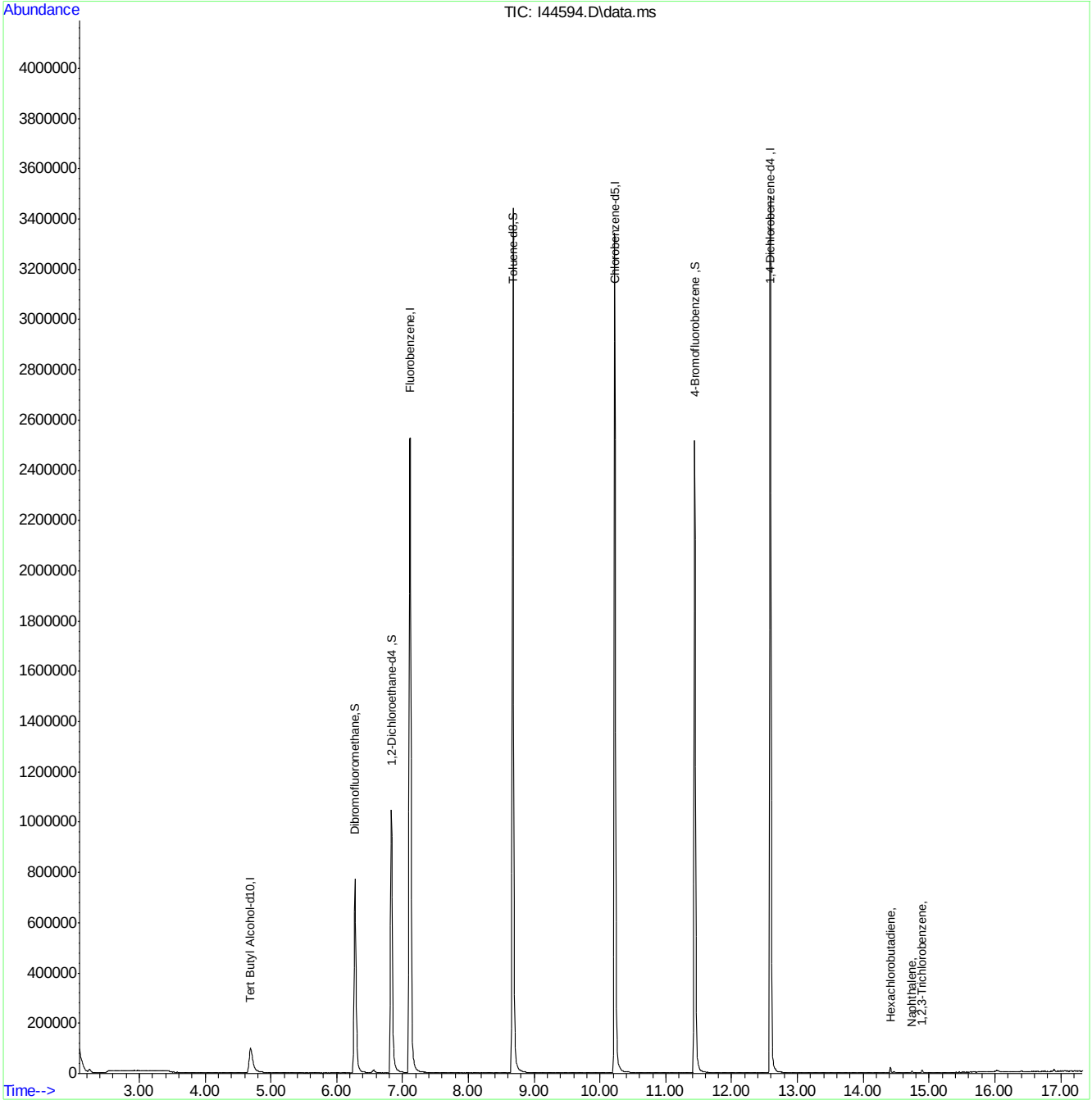
7

SGS ACCUTEST FA39742

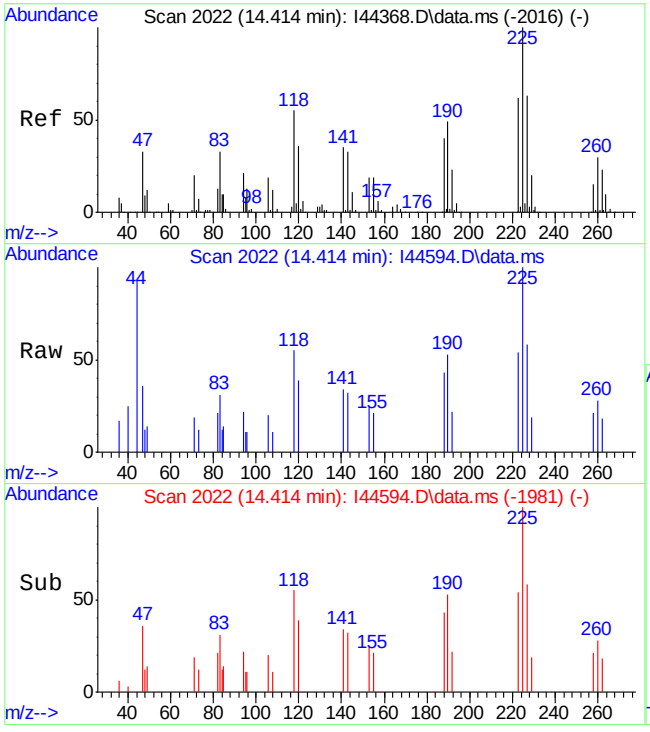
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\122916\
Data File : I44594.D
Acq On : 29 Dec 2016 9:20 am
Operator : WILFREDO
Sample : MB Inst : MSVOA16
Misc : MS35941,VI1226,,,,,
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Dec 29 13:08:13 2016
Quant Method : C:\msdchem\2\METHODS\I-DEC22.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Dec 23 09:02:35 2016
Response via : Initial Calibration



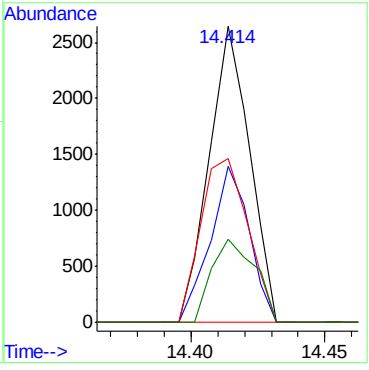
SGS ACCUTEST FA39742

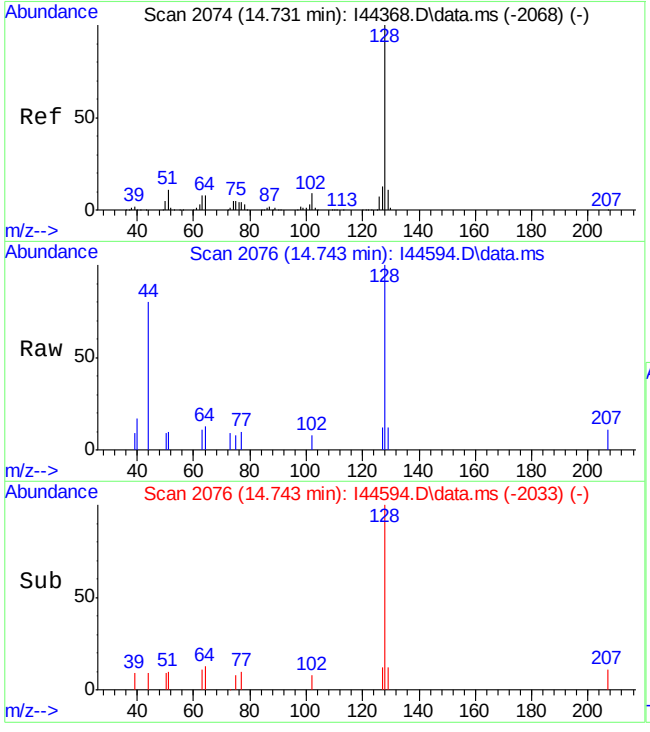


#102
Hexachlorobutadiene
Concen: 0.53 ug/L
RT: 14.414 min Scan# 2022
Delta R.T. 0.000 min
Lab File: I44594.D
Acq: 29 Dec 2016 9:20 am

Tgt Ion:225 Resp: 2776

Ion	Ratio	Lower	Upper
225	100		
190	52.6	18.7	78.7
118	55.3	25.3	85.3
260	28.2	0.0	59.6

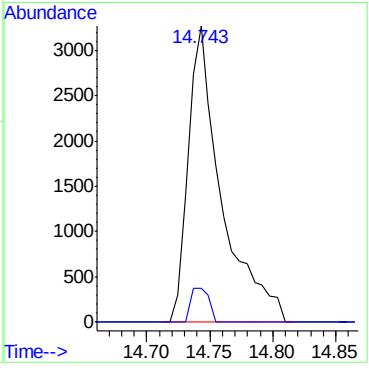




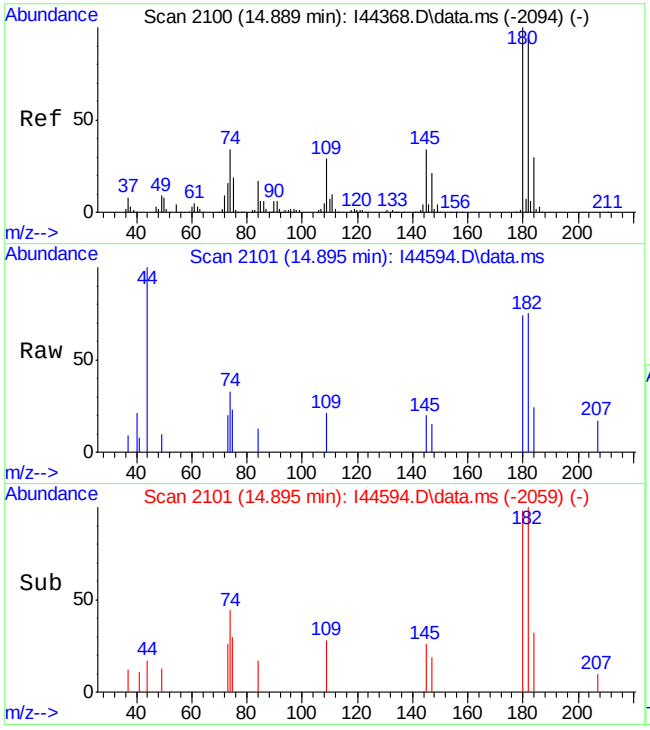
#104
Naphthalene
Concen: 0.21 ug/L
RT: 14.743 min Scan# 2076
Delta R.T. 0.012 min
Lab File: I44594.D
Acq: 29 Dec 2016 9:20 am

Tgt Ion:128 Resp: 6038

Ion	Ratio	Lower	Upper
128	100		
127	11.5	0.0	42.5



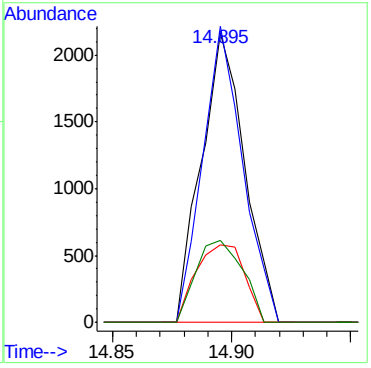
SGS ACCUTEST FA39742



#105
1,2,3-Trichlorobenzene
Concen: 0.26 ug/L
RT: 14.895 min Scan# 2101
Delta R.T. 0.006 min
Lab File: I44594.D
Acq: 29 Dec 2016 9:20 am

Tgt Ion:180 Resp: 2736

Ion	Ratio	Lower	Upper
180	100		
182	102.2	65.3	125.3
145	26.9	3.7	63.7
109	28.4	0.0	59.0



SGS ACCUTEST FA39742

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\123016\
Data File : I44651.D
Acq On : 30 Dec 2016 10:28 am
Operator : WILFREDO
Sample : MB Inst : MSVOA16
Misc : MS35962,VI1229,,,,,
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Dec 30 11:07:56 2016
Quant Method : C:\msdchem\2\METHODS\I-DEC22.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Dec 23 09:02:35 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.116	96	2398966	50.00	ug/L	0.00
56) Chlorobenzene-d5	10.225	117	1575237	50.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	12.591	152	754600	50.00	ug/L	0.00
106) Tert Butyl Alcohol-d10	4.696	65	208738	250.00	ug/L	0.00
System Monitoring Compounds						
36) Dibromofluoromethane	6.275	113	572697	47.29	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 94.58%			
46) 1,2-Dichloroethane-d4	6.830	65	814283	47.61	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 95.22%			
57) Toluene-d8	8.677	98	2151966	49.96	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 99.92%			
79) 4-Bromofluorobenzene	11.439	174	544771	49.57	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 99.14%			
Target Compounds						Qvalue
102) Hexachlorobutadiene	14.414	225	2927	0.52	ug/L	93
104) Naphthalene	14.743	128	12001	0.39	ug/L	97
105) 1,2,3-Trichlorobenzene	14.895	180	2654	0.24	ug/L	92

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

7.2.3

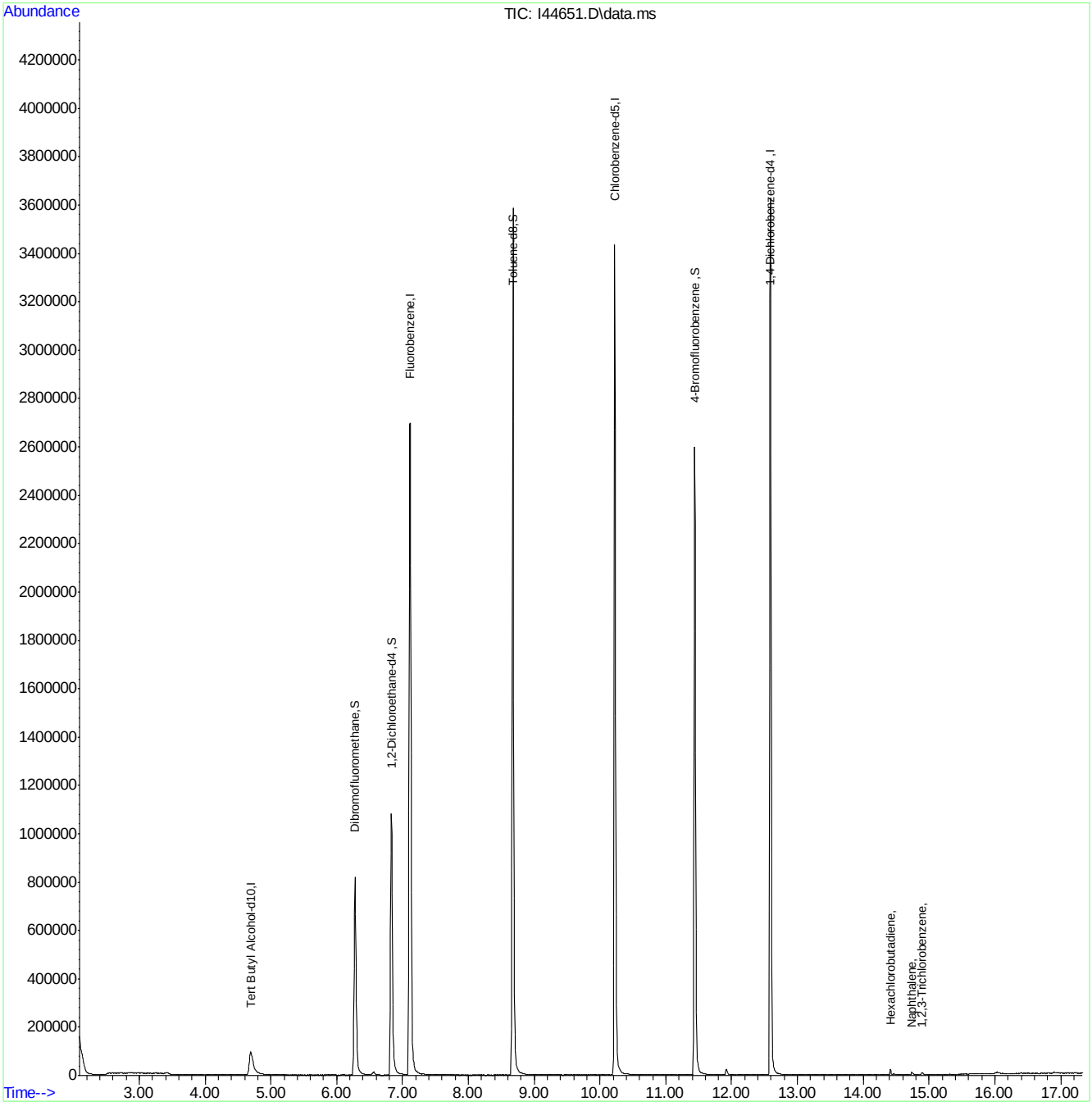
7

SGS ACCUTEST FA39742

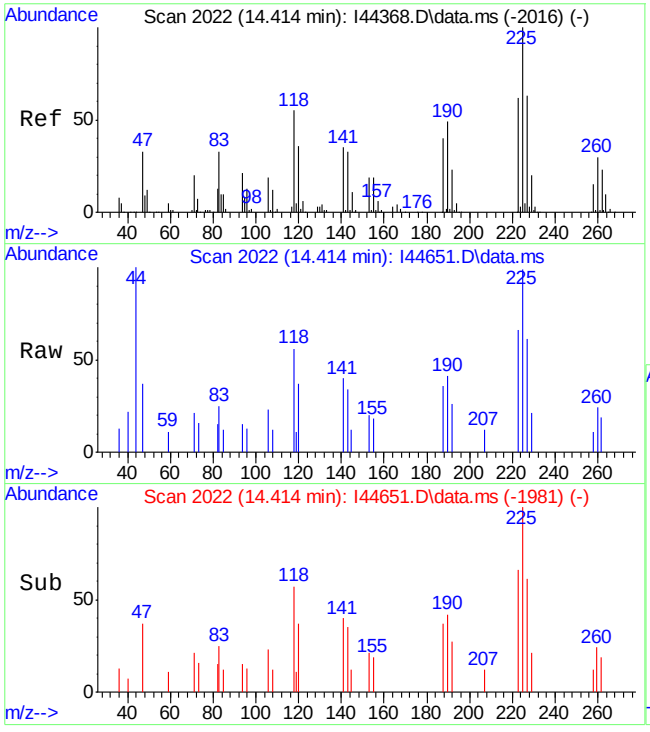
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\123016\
Data File : I44651.D
Acq On : 30 Dec 2016 10:28 am
Operator : WILFREDO
Sample : MB Inst : MSVOA16
Misc : MS35962,VI1229,,,,,
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Dec 30 11:07:56 2016
Quant Method : C:\msdchem\2\METHODS\I-DEC22.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Dec 23 09:02:35 2016
Response via : Initial Calibration



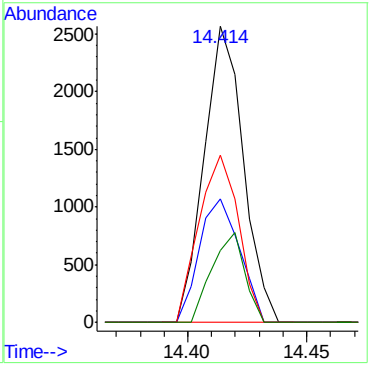
SGS ACCUTEST FA39742

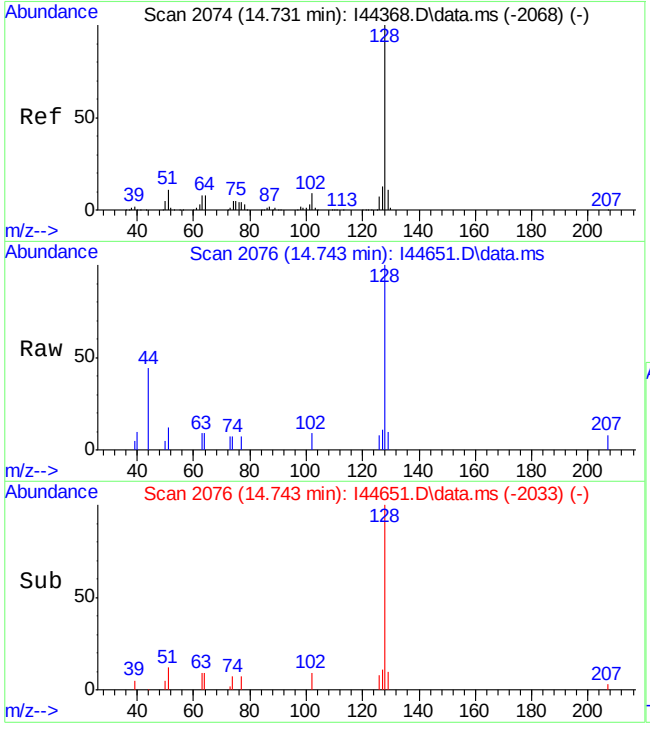


#102
Hexachlorobutadiene
Concen: 0.52 ug/L
RT: 14.414 min Scan# 2022
Delta R.T. 0.000 min
Lab File: I44651.D
Acq: 30 Dec 2016 10:28 am

Tgt Ion:225 Resp: 2927

Ion	Ratio	Lower	Upper
225	100		
190	41.6	18.7	78.7
118	56.6	25.3	85.3
260	24.4	0.0	59.6

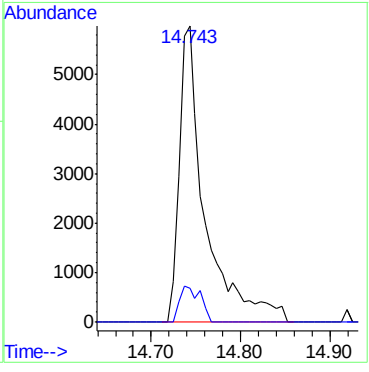




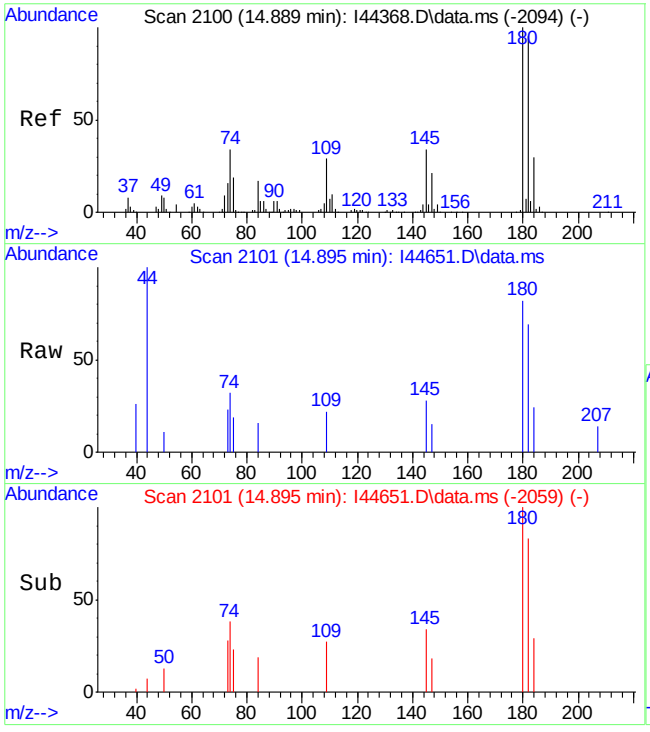
#104
Naphthalene
Concen: 0.39 ug/L
RT: 14.743 min Scan# 2076
Delta R.T. 0.012 min
Lab File: I44651.D
Acq: 30 Dec 2016 10:28 am

Tgt Ion:128 Resp: 12001

Ion	Ratio	Lower	Upper
128	100		
127	11.5	0.0	42.5



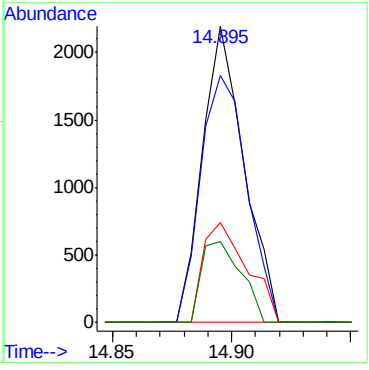
SGS ACCUTEST FA39742



#105
1,2,3-Trichlorobenzene
Concen: 0.24 ug/L
RT: 14.895 min Scan# 2101
Delta R.T. 0.006 min
Lab File: I44651.D
Acq: 30 Dec 2016 10:28 am

Tgt Ion:180 Resp: 2654

Ion	Ratio	Lower	Upper
180	100		
182	83.4	65.3	125.3
145	33.7	3.7	63.7
109	27.3	0.0	59.0



7.2.3

7

SGS ACCUTEST FA39742

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\010317\
Data File : J0981917.D
Acq On : 3 Jan 2017 10:39 am
Operator : darshnap
Sample : mb Inst : MSVOA6
Misc : MS35987,VJ5530,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jan 03 12:55:40 2017
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jan 03 09:58:33 2017
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.734	96	721042	50.00	ug/L	0.00
56) Chlorobenzene-d5	10.825	117	522072	50.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	13.186	152	275491	50.00	ug/L	0.00
106) Tert Butyl Alcohol-d10	5.284	65	98353	250.00	ug/L	0.00
System Monitoring Compounds						
36) Dibromofluoromethane	6.905	113	168427	49.48	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 98.96%			
46) 1,2-Dichloroethane-d4	7.458	65	246400	53.83	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 107.66%			
57) Toluene-d8	9.279	98	690751	49.82	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 99.64%			
79) 4-Bromofluorobenzene	12.035	95	283221	51.54	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 103.08%			

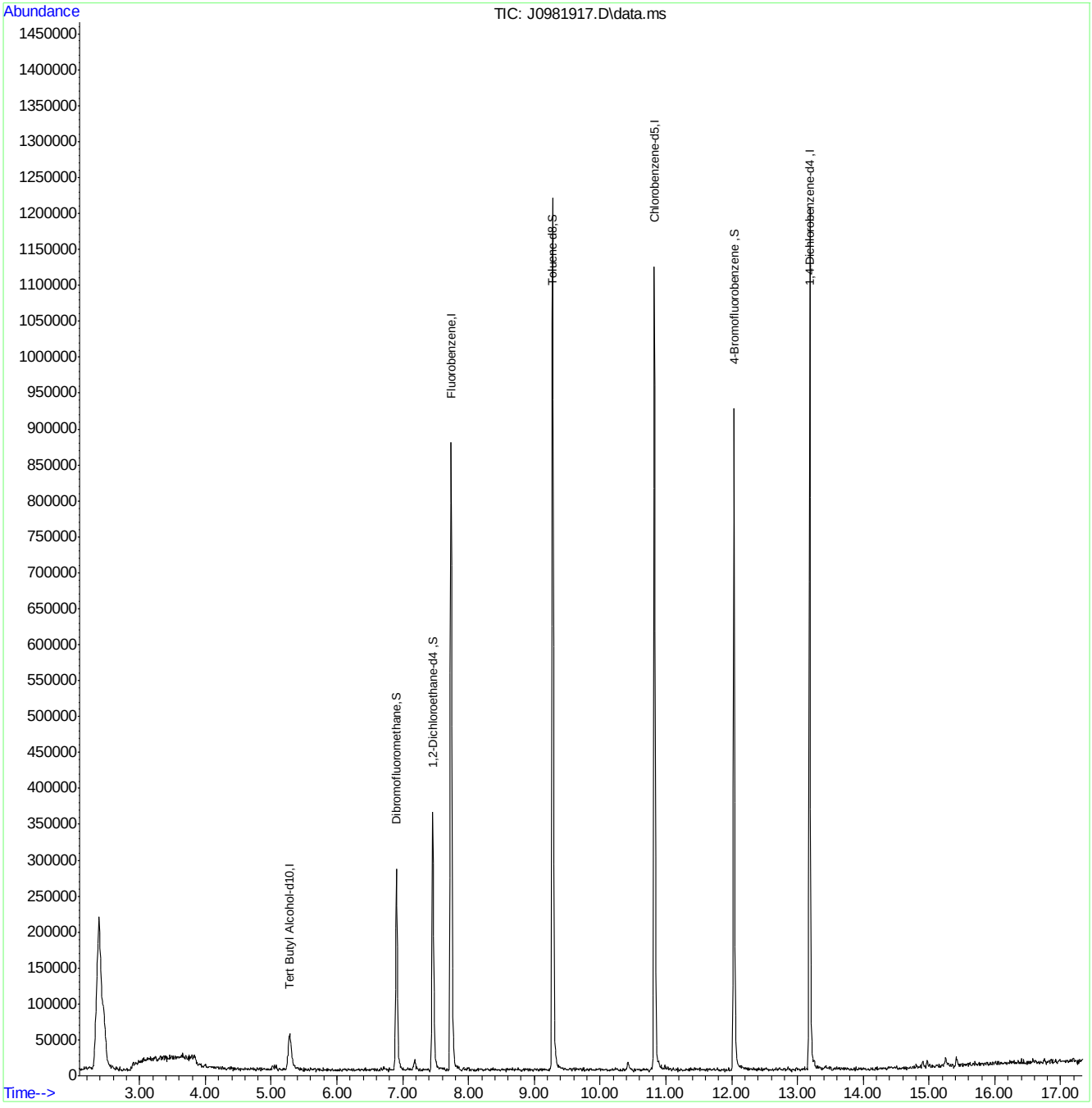
Target Compounds Qvalue

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\010317\
Data File : J0981917.D
Acq On : 3 Jan 2017 10:39 am
Operator : darshnap
Sample : mb Inst : MSVOA6
Misc : MS35987,VJ5530,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jan 03 12:55:40 2017
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jan 03 09:58:33 2017
Response via : Initial Calibration



SGS ACCUTEST FA39742

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\010417\
Data File : J0981948.D
Acq On : 4 Jan 2017 10:05 am
Operator : darshnap
Sample : mb ma Inst : MSVOA6
Misc : MS35997,VJ5532,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jan 04 13:22:30 2017
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jan 03 08:23:52 2017
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.734	96	689021	50.00	ug/L	0.00
56) Chlorobenzene-d5	10.825	117	502430	50.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	13.181	152	249510	50.00	ug/L	0.00
106) Tert Butyl Alcohol-d10	5.266	65	91781	250.00	ug/L	-0.01
System Monitoring Compounds						
36) Dibromofluoromethane	6.900	113	165157	50.78	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 101.56%			
46) 1,2-Dichloroethane-d4	7.452	65	243798	55.73	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 111.46%			
57) Toluene-d8	9.279	98	664917	49.83	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 99.66%			
79) 4-Bromofluorobenzene	12.035	95	267664	53.78	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 107.56%			

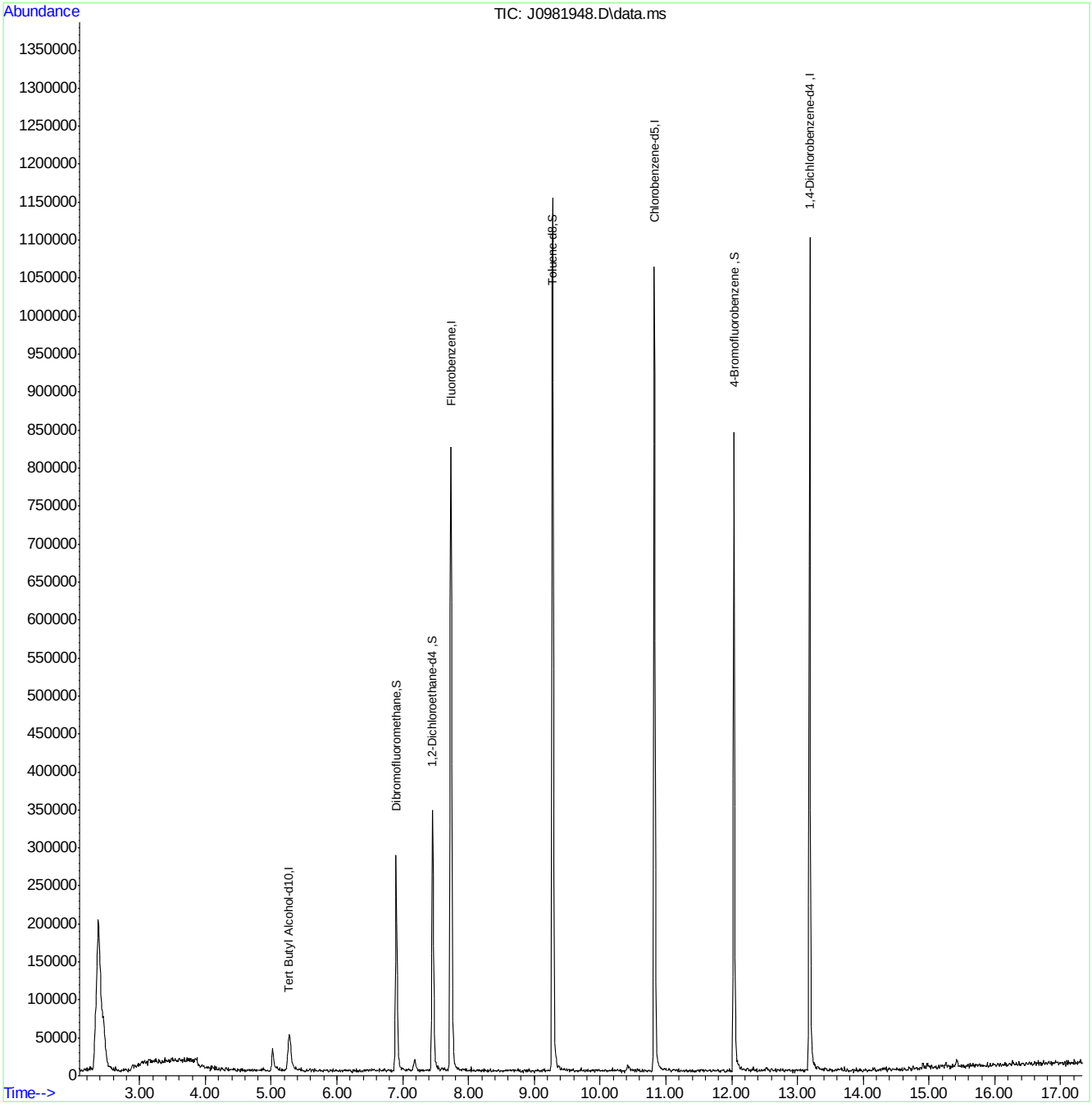
Target Compounds Qvalue

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\010417\
Data File : J0981948.D
Acq On : 4 Jan 2017 10:05 am
Operator : darshnap
Sample : mb ma Inst : MSVOA6
Misc : MS35997,VJ5532,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jan 04 13:22:30 2017
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jan 03 08:23:52 2017
Response via : Initial Calibration



MSJ123016.M Thu Jan 05 11:12:51 2017 Page: 2

Manual Integrations APPROVED (compounds with "m" flag)
Juan Garcia
12/30/16 16:25

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\122816\
Data File : I44536.D
Acq On : 28 Dec 2016 9:21 am
Operator : WILFREDO
Sample : BS Inst : MSVOA16
Misc : MS35920,VI1222,,,,,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Dec 28 09:57:59 2016
Quant Method : C:\msdchem\2\METHODS\I-DEC22.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Dec 23 09:02:35 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.110	96	2420040	50.00	ug/L	0.00
56) Chlorobenzene-d5	10.225	117	1633620	50.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	12.591	152	804234	50.00	ug/L	0.00
106) Tert Butyl Alcohol-d10	4.690	65	196205	250.00	ug/L	0.00
System Monitoring Compounds						
36) Dibromofluoromethane	6.275	113	601642	49.25	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 98.50%			
46) 1,2-Dichloroethane-d4	6.830	65	812088	47.07	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 94.14%			
57) Toluene-d8	8.671	98	2256523	50.52	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 101.04%			
79) 4-Bromofluorobenzene	11.439	174	572944	48.91	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 97.82%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.270	85	378458	23.47	ug/L	99
3) Chloromethane	2.483	50	489843	20.15	ug/L	99
5) Vinyl Chloride	2.605	62	400006	21.57	ug/L	99
6) Bromomethane	2.977	94	124802	22.23	ug/L	95
7) Chloroethane	3.135	64	162536	22.05	ug/L	97
8) Trichlorofluoromethane	3.294	101	426049	23.97	ug/L	100
9) Ethyl Ether	3.586	59	307851	21.69	ug/L	95
10) 1,2-Dichlorotrifluoroe...	3.782	67	390123m	23.81	ug/L	
11) 1,1-Dichloroethene	3.818	61	533200	22.87	ug/L	98
12) Freon 113	3.897	101	273353	21.47	ug/L	98
13) Carbon Disulfide	3.879	76	878596	21.95	ug/L	98
14) Iodomethane	3.989	142	406576	22.59	ug/L	99
15) Allyl chloride	4.318	41	432415	20.30	ug/L	99
16) Methylene Chloride	4.428	49	510464	22.86	ug/L	97
17) Acetone	4.470	43	473066	129.64	ug/L	98
18) Methyl acetate	4.586	43	1047903	109.37	ug/L	98
19) trans-1,2-Dichloroethene	4.611	61	538467	24.51	ug/L	97
20) Hexane	4.690	56	372964	21.75	ug/L	96
21) Methyl Tert Butyl Ether	4.702	73	773263	23.05	ug/L	94
22) Acetonitrile	4.964	41	193992	167.14	ug/L	97
23) Di-isopropyl ether	5.086	45	1201217	22.91	ug/L	98
24) Chloroprene	5.226	53	537421	22.39	ug/L	100
25) 1,1-Dichloroethane	5.245	63	645068	24.93	ug/L	100
26) Acrylonitrile	5.281	53	550635	105.25	ug/L	99
27) ETBE	5.464	59	1056692	22.71	ug/L	98
28) Vinyl acetate	5.470	43	3717381	118.00	ug/L	100
29) cis-1,2-Dichloroethene	5.812	96	327678	25.26	ug/L	98
30) 2,2-Dichloropropane	5.927	77	333863	26.33	ug/L	99
31) Bromochloromethane	6.025	128	147137	24.42	ug/L	91
32) Cyclohexane	6.056	56	662129	23.28	ug/L	98
33) Chloroform	6.080	83	578936	23.53	ug/L	99
34) Ethyl acetate	6.171	43	1405996	103.26	ug/L	100
35) Tetrahydrofuran	6.263	42	76979	21.09	ug/L	98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\122816\
Data File : I44536.D
Acq On : 28 Dec 2016 9:21 am
Operator : WILFREDO
Sample : BS Inst : MSVOA16
Misc : MS35920,VI1222,,,,,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Dec 28 09:57:59 2016
Quant Method : C:\msdchem\2\METHODS\I-DEC22.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Dec 23 09:02:35 2016
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37)	Carbon Tetrachloride	6.263	117	371630	25.68	ug/L	98
38)	1,1,1-Trichloroethane	6.324	97	456652	23.61	ug/L	99
39)	2-Butanone	6.385	43	668351	125.92	ug/L	98
40)	1,1-Dichloropropene	6.452	75	428423	24.71	ug/L	98
41)	tert-Butyl formate	6.531	59	1006062	106.37	ug/L	99
42)	Propionitrile	6.683	54	418796	214.39	ug/L	95
43)	Methacrylonitrile	6.708	41	1720925	215.10	ug/L	96
44)	Benzene	6.702	78	1250959	27.14	ug/L	88
45)	TAME	6.787	73	770390	23.86	ug/L	98
47)	1,2-Dichloroethane	6.897	62	473294	22.89	ug/L	98
48)	Trichloroethene	7.293	95	328602	24.37	ug/L	97
49)	Methylcyclohexane	7.299	83	552146	24.51	ug/L	99
50)	Dibromomethane	7.720	93	181100	23.93	ug/L	97
51)	1,2-Dichloropropane	7.805	63	350959	24.35	ug/L	99
52)	Bromodichloromethane	7.860	83	398650	26.47	ug/L	100
53)	Methyl methacrylate	7.982	41	215169	19.61	ug/L	96
54)	2-Chloroethyl vinyl ether	8.390	63	989592	112.98	ug/L	100
55)	cis-1,3-Dichloropropene	8.482	75	468033	23.23	ug/L	96
58)	Toluene	8.726	91	1233532	26.75	ug/L	99
59)	2-Nitropropane	8.927	41	308671	101.01	ug/L	99
60)	4-Methyl-2-pentanone	9.061	43	1370282	106.72	ug/L	99
61)	trans-1,3-Dichloropropene	9.116	75	420343	25.18	ug/L	97
62)	Tetrachloroethene	9.128	166	279166	22.62	ug/L	98
63)	Ethyl methacrylate	9.244	69	295375	19.17	ug/L	96
64)	1,1,2-Trichloroethane	9.280	83	225659	24.71	ug/L	98
65)	Dibromochloromethane	9.476	129	250732	22.93	ug/L	98
66)	1,3-Dichloropropane	9.561	76	446417	23.63	ug/L	96
67)	1,2-Dibromoethane	9.732	107	249121	26.08	ug/L	99
68)	2-hexanone	9.884	43	1001799	108.50	ug/L	96
69)	1-Chlorohexane	10.189	91	440221	26.43	ug/L	96
70)	Ethylbenzene	10.250	91	1399414	26.95	ug/L	99
71)	Chlorobenzene	10.244	112	799903	24.57	ug/L	98
72)	1,1,1,2-Tetrachloroethane	10.292	131	260901	26.89	ug/L	98
73)	m,p-Xylene	10.390	91	2207650	55.39	ug/L	100
74)	o-Xylene	10.823	91	1094173	26.54	ug/L	99
75)	Styrene	10.878	104	789118	25.38	ug/L	98
76)	Bromoform	10.927	173	121015	21.80	ug/L	100
77)	Isopropylbenzene	11.134	105	1329103	27.35	ug/L	99
80)	cis-1,4-Dichloro-2-butene	11.481	53	41121	26.47	ug/L	94
81)	n-Propylbenzene	11.554	91	1659117	25.58	ug/L	99
82)	Bromobenzene	11.561	156	311204	26.85	ug/L	100
83)	1,1,2,2-Tetrachloroethane	11.615	83	330138	23.12	ug/L	99
84)	1,3,5-Trimethylbenzene	11.743	105	1090478	27.36	ug/L	99
85)	2-Chlorotoluene	11.737	91	1072776	24.73	ug/L	99
86)	trans-1,4-Dichloro-2-B...	11.798	53	61603	27.82	ug/L	94
87)	1,2,3-Trichloropropane	11.768	110	86434	23.34	ug/L	94
88)	Cyclohexanone	11.823	55	233591	375.57	ug/L	97
89)	4-Chlorotoluene	11.902	91	997361	25.28	ug/L	100
90)	tert-Butylbenzene	12.079	91	647324	24.43	ug/L	97
92)	1,2,4-Trimethylbenzene	12.146	105	1077941	27.37	ug/L	98

SGS ACCUTEST FA39742

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\122816\
Data File : I44536.D
Acq On : 28 Dec 2016 9:21 am
Operator : WILFREDO
Sample : BS Inst : MSVOA16
Misc : MS35920,VI1222,,,,,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Dec 28 09:57:59 2016
Quant Method : C:\msdchem\2\METHODS\I-DEC22.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Dec 23 09:02:35 2016
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
93)	Pentachloroethane	12.121	167	146288	27.55	ug/L		99
94)	sec-Butylbenzene	12.262	105	1462729	26.35	ug/L		99
95)	4-Isopropyltoluene	12.396	119	1156708	25.83	ug/L		98
96)	1,3-Dichlorobenzene	12.518	146	572735	24.50	ug/L		99
97)	1,4-Dichlorobenzene	12.603	146	603163	24.79	ug/L		99
98)	n-Butylbenzene	12.841	92	699621	25.10	ug/L		93
99)	Benzyl Chloride	12.847	126	99285	22.79	ug/L	#	84
100)	1,2-Dichlorobenzene	13.048	146	548738	24.33	ug/L		98
101)	1,2-Dibromo-3-Chloropr...	13.828	75	41890	18.68	ug/L		99
102)	Hexachlorobutadiene	14.414	225	148175	24.93	ug/L		98
103)	1,2,4-Trichlorobenzene	14.450	180	344416	23.27	ug/L		99
104)	Naphthalene	14.731	128	812515	24.63	ug/L		100
105)	1,2,3-Trichlorobenzene	14.889	180	317620	26.93	ug/L		99
107)	Ethanol	3.727	45	42183m	391.46	ug/L		
108)	Acrolein	4.166	56	267652	144.12	ug/L		99
109)	Tert Butyl Alcohol	4.769	59	314540	320.52	ug/L		91
110)	Isobutyl alcohol	6.842	43	179782	424.22	ug/L		88
111)	Tert Amyl Alcohol	6.952	59	160841	209.60	ug/L		95
112)	1,4-Dioxane	8.049	88	40717m	474.71	ug/L		
113)	3,3-Dimethyl-1-butanol	9.841	57	1140021	1186.06	ug/L		99

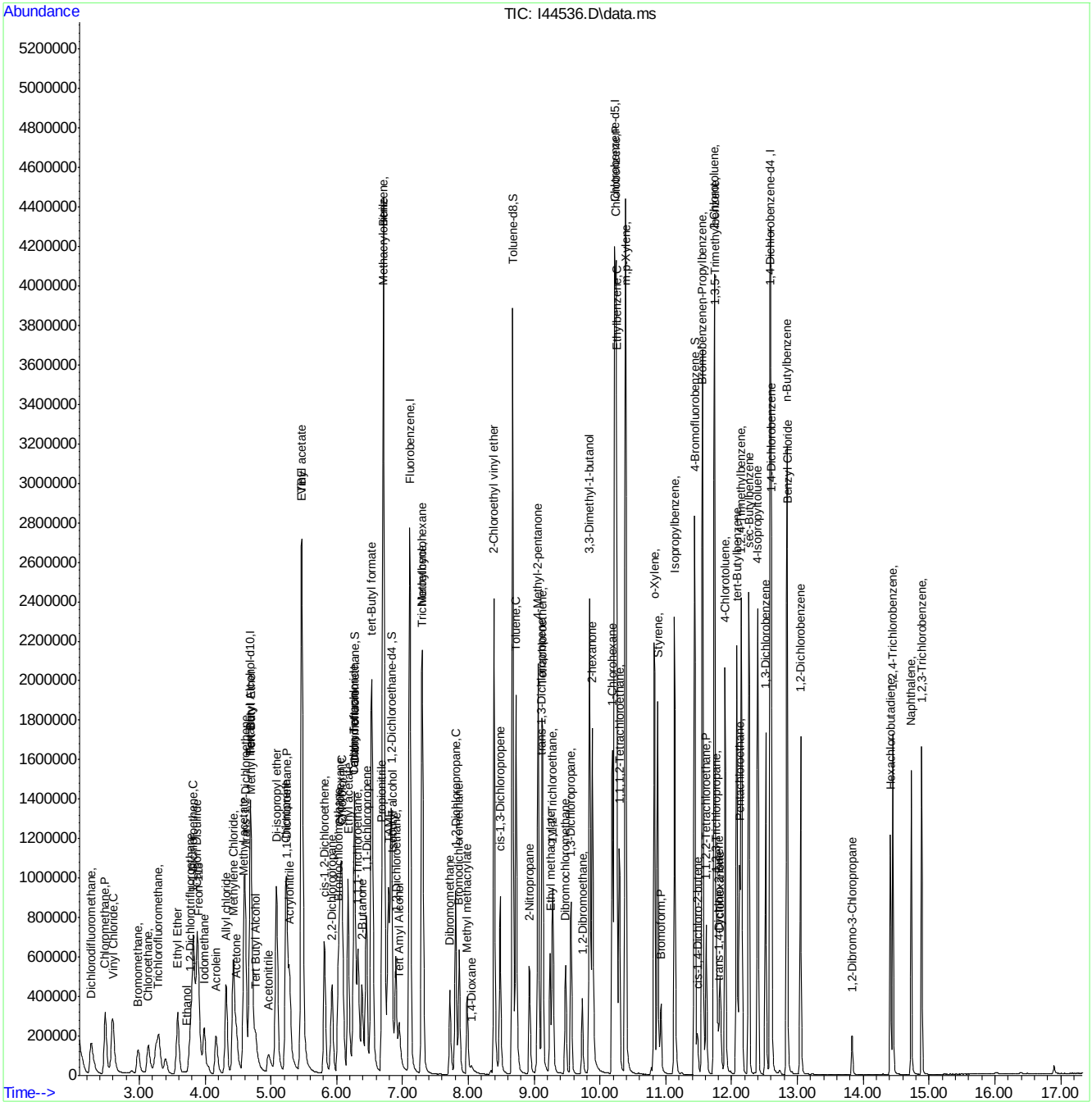
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST FA39742

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\122816\
Data File : I44536.D
Acq On : 28 Dec 2016 9:21 am
Operator : WILFREDO
Sample : BS Inst : MSVOA16
Misc : MS35920,VI1222,,,,,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Dec 28 09:57:59 2016
Quant Method : C:\msdchem\2\METHODS\I-DEC22.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Dec 23 09:02:35 2016
Response via : Initial Calibration



SGS ACCUTEST FA39742

Manual Integration Approval Summary

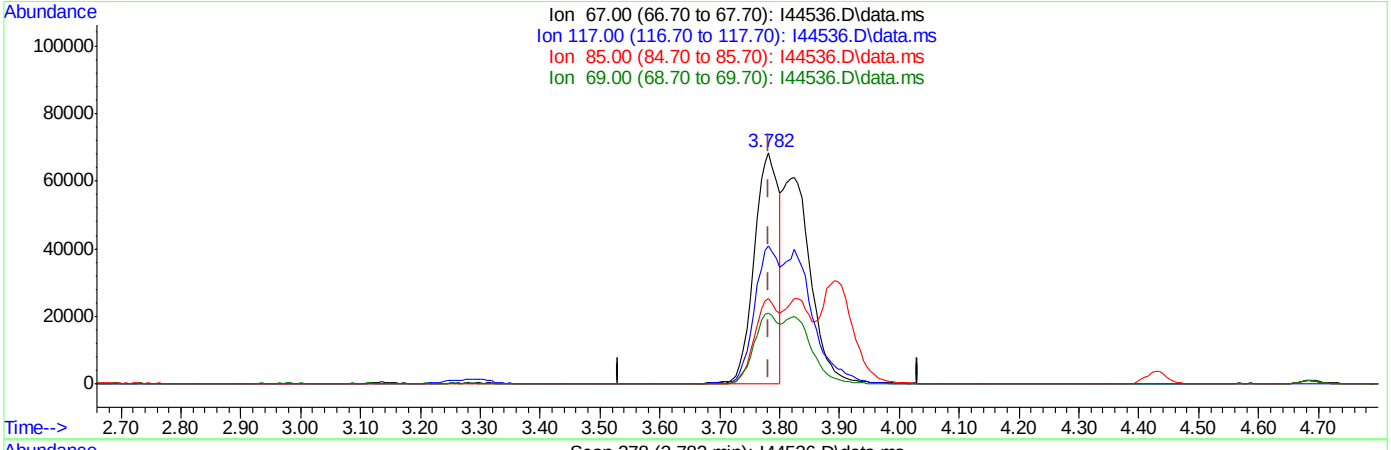
Sample Number:	VI1223-BS	**Method:**	SW846 8260C
Lab FileID:	I44536.D	**Analyst approved:**	12/28/16 15:20 Wilfredo Vazquez
Injection Time:	12/28/16 09:21	**Supervisor approved:**	12/30/16 16:25 Juan Garcia

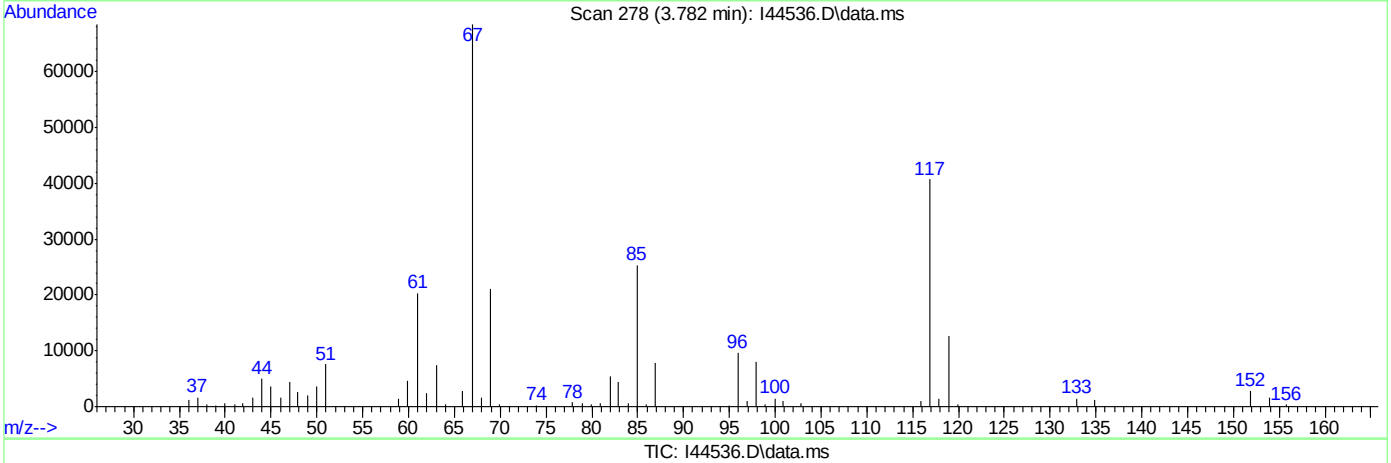
Parameter	CAS	Sig#	R.T. (min.)	Reason
Ethyl Alcohol	64-17-5		3.73	Poor instrument integration
1,2-Dichlorotrifluoroethane	354-23-4		3.78	Split peak
1,4-Dioxane	123-91-1		8.05	Poor instrument integration

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\DATA\122816\
Data File : I44536.D
Acq On : 28 Dec 2016 9:21 am
Operator : WILFREDO
Sample : BS Inst : MSVOA16
Misc : MS35920,VI1222,,,,,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Dec 28 09:56:29 2016
Quant Method : C:\msdchem\2\METHODS\I-DEC22.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Dec 23 09:02:35 2016
Response via : Initial Calibration





TIC: I44536.D\data.ms

(10) 1,2-Dichlorotrifluoroethane

3.782min (+0.000) 11.75ug/L

response 192431

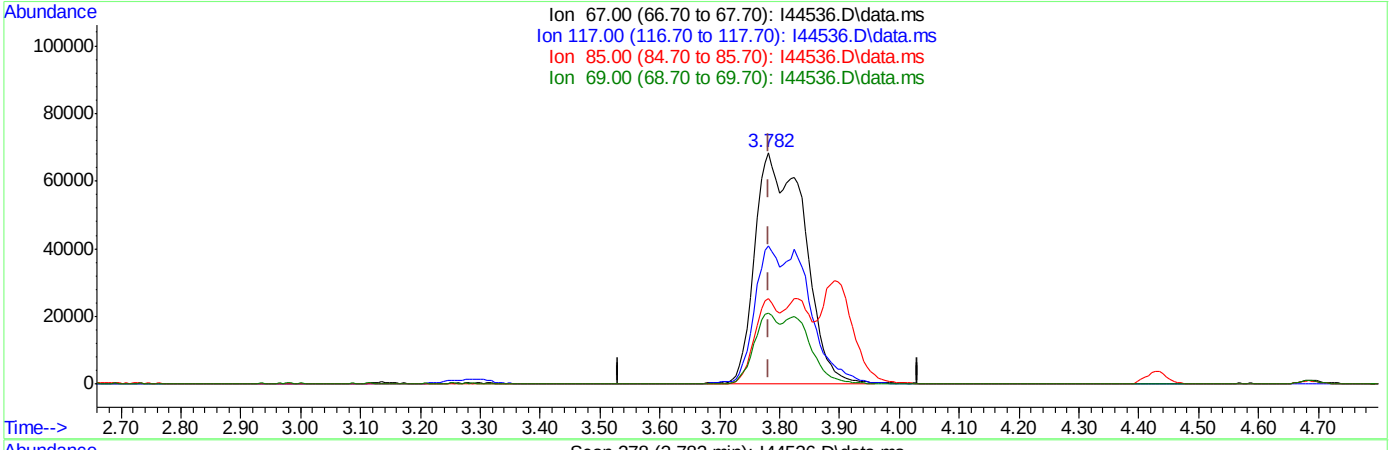
Ion	Exp%	Act%
67.00	100	100
117.00	57.70	59.48
85.00	36.80	37.06
69.00	29.70	30.73

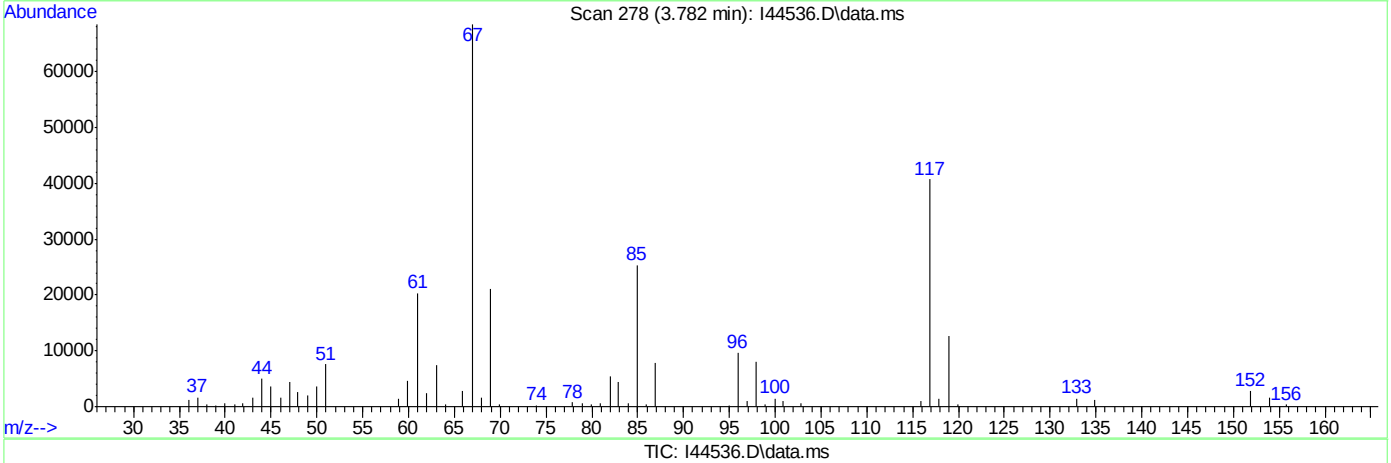
SGS ACCUTEST FA39742

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\DATA\122816\
Data File : I44536.D
Acq On : 28 Dec 2016 9:21 am
Operator : WILFREDO
Sample : BS Inst : MSVOA16
Misc : MS35920,VI1222,,,,,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Dec 28 09:56:29 2016
Quant Method : C:\msdchem\2\METHODS\I-DEC22.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Dec 23 09:02:35 2016
Response via : Initial Calibration





TIC: I44536.D\data.ms

(10) 1,2-Dichlorotrifluoroethane

3.782min (+0.000) 23.81ug/L m

response 390123

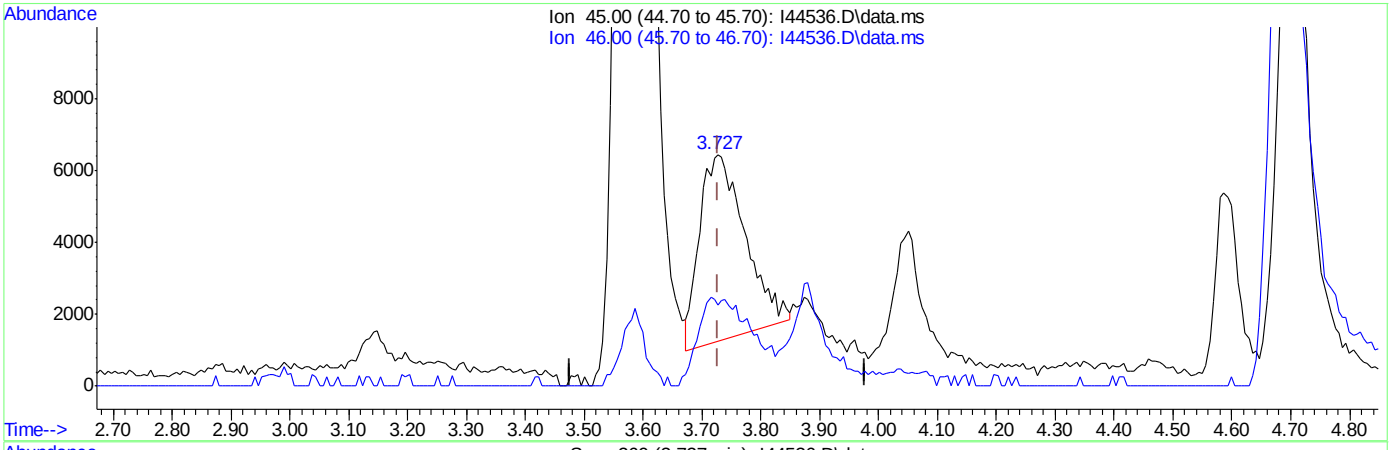
Ion	Exp%	Act%
67.00	100	100
117.00	57.70	59.48
85.00	36.80	37.06
69.00	29.70	30.73

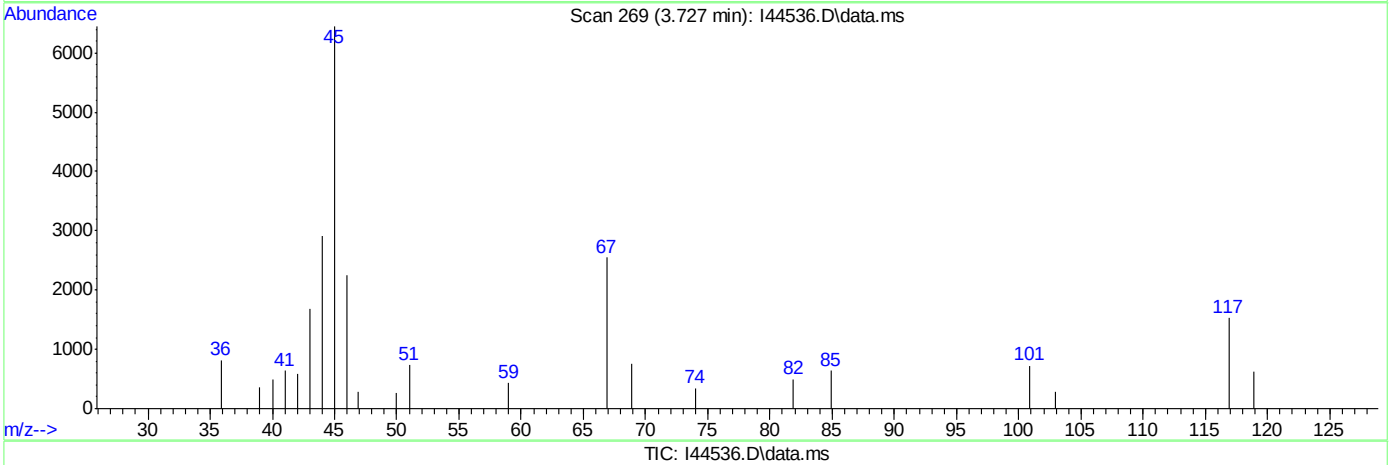
SGS ACCUTEST FA39742

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\DATA\122816\
Data File : I44536.D
Acq On : 28 Dec 2016 9:21 am
Operator : WILFREDO
Sample : BS Inst : MSVOA16
Misc : MS35920,VI1222,,,,,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Dec 28 09:56:29 2016
Quant Method : C:\msdchem\2\METHODS\I-DEC22.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Dec 23 09:02:35 2016
Response via : Initial Calibration





TIC: I44536.D\data.ms

(107) Ethanol

3.727min (-0.000) 259.57ug/L

response 27971

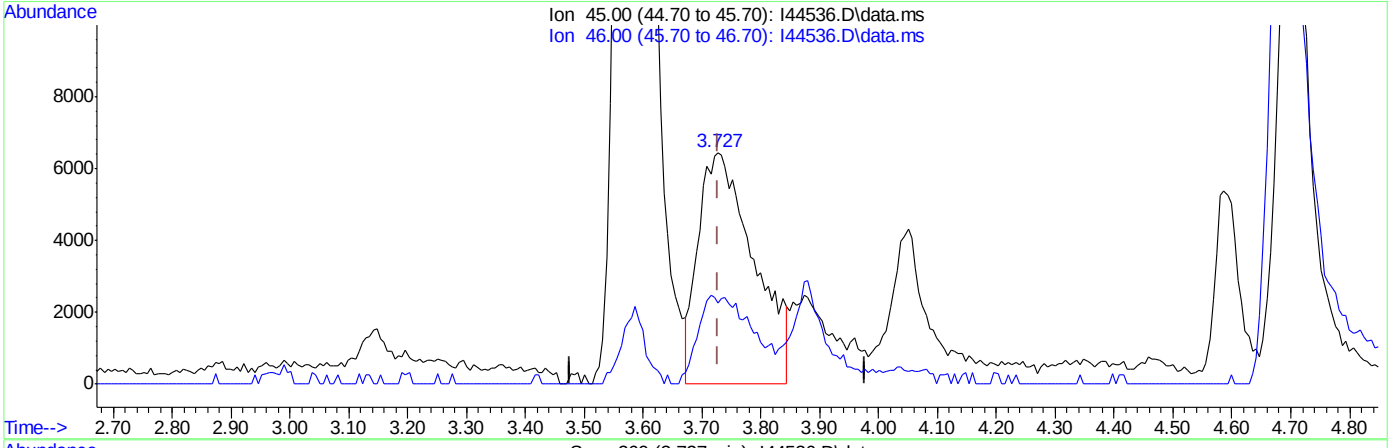
Ion	Exp%	Act%
45.00	100	100
46.00	37.40	41.89
0.00	0.00	0.00
0.00	0.00	0.00

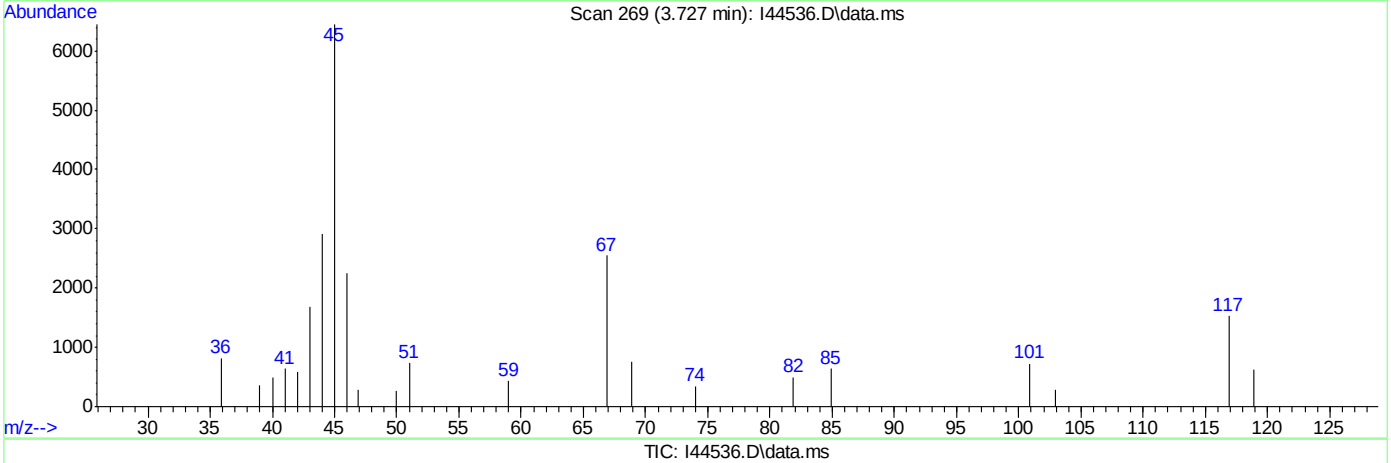
SGS ACCUTEST FA39742

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\DATA\122816\
Data File : I44536.D
Acq On : 28 Dec 2016 9:21 am
Operator : WILFREDO
Sample : BS Inst : MSVOA16
Misc : MS35920,VI1222,,,,,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Dec 28 09:56:29 2016
Quant Method : C:\msdchem\2\METHODS\I-DEC22.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Dec 23 09:02:35 2016
Response via : Initial Calibration





TIC: I44536.D\data.ms

(107) Ethanol

3.727min (-0.000) 391.46ug/L m

response 42183

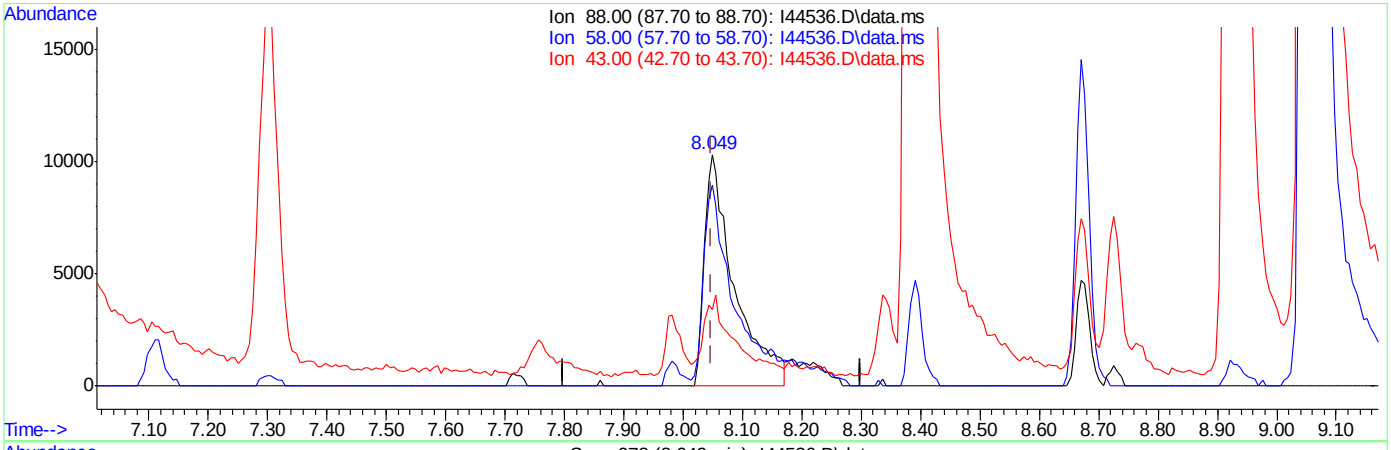
Ion	Exp%	Act%
45.00	100	100
46.00	37.40	34.82
0.00	0.00	0.00
0.00	0.00	0.00

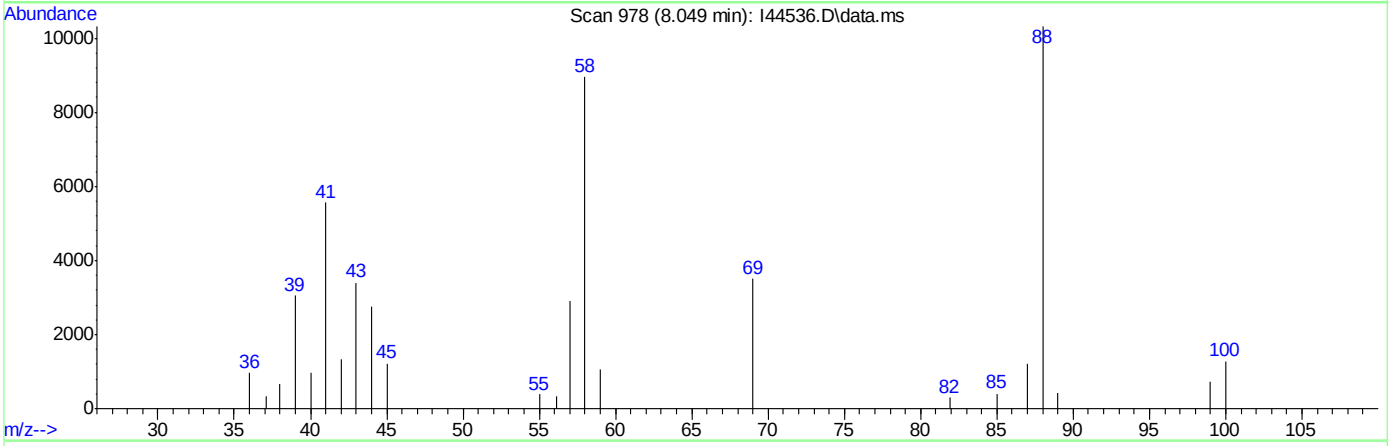
SGS ACCUTEST FA39742

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\DATA\122816\
Data File : I44536.D
Acq On : 28 Dec 2016 9:21 am
Operator : WILFREDO
Sample : BS Inst : MSVOA16
Misc : MS35920,VI1222,,,,,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Dec 28 09:56:29 2016
Quant Method : C:\msdchem\2\METHODS\I-DEC22.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Dec 23 09:02:35 2016
Response via : Initial Calibration





TIC: I44536.D\data.ms

(112) 1,4-Dioxane

8.049min (0.000) 421.82ug/L

response 36181

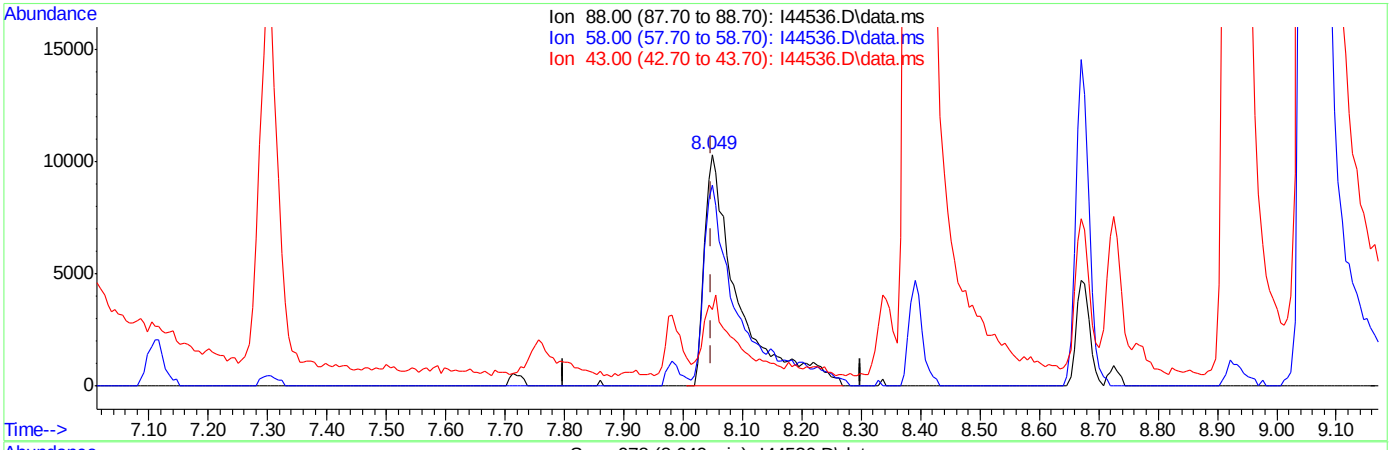
Ion	Exp%	Act%
88.00	100	100
58.00	90.10	83.89
43.00	33.30	25.36
0.00	0.00	0.00

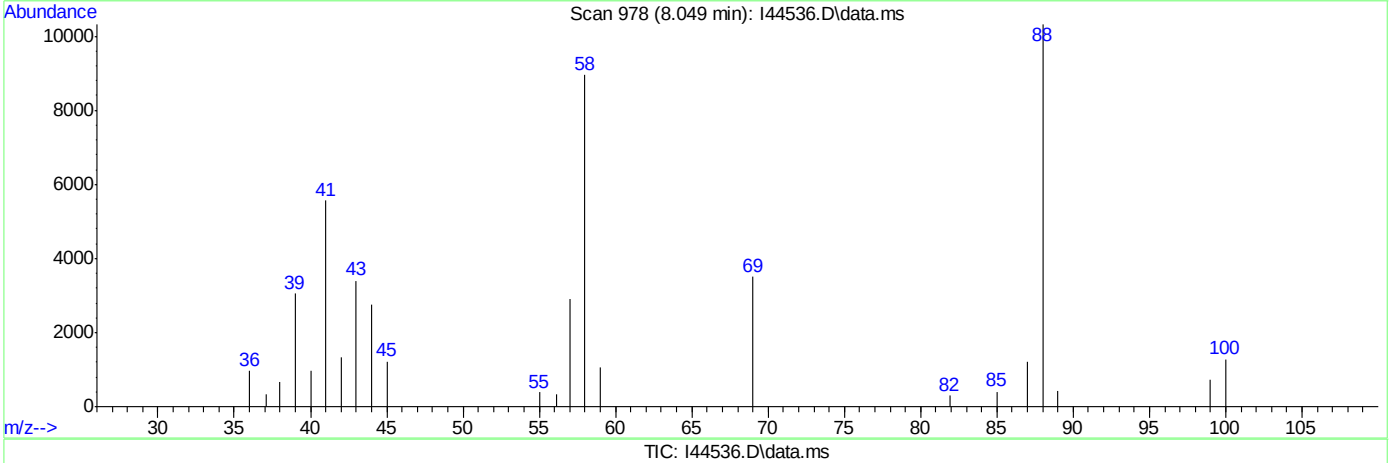
SGS ACCUTEST FA39742

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\DATA\122816\
Data File : I44536.D
Acq On : 28 Dec 2016 9:21 am
Operator : WILFREDO
Sample : BS Inst : MSVOA16
Misc : MS35920,VI1222,,,,,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Dec 28 09:56:29 2016
Quant Method : C:\msdchem\2\METHODS\I-DEC22.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Dec 23 09:02:35 2016
Response via : Initial Calibration





TIC: I44536.D\data.ms

(112) 1,4-Dioxane

8.049min (0.000) 474.71ug/L m

response 40717

Ion	Exp%	Act%
88.00	100	100
58.00	90.10	86.70
43.00	33.30	32.91
0.00	0.00	0.00

Manual Integrations APPROVED (compounds with "m" flag)
Juan Garcia
12/30/16 16:19

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\122916\
Data File : I44593.D
Acq On : 29 Dec 2016 8:57 am
Operator : WILFREDO
Sample : BS Inst : MSVOA16
Misc : MS35941,VI1226,,,,,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Dec 29 09:16:19 2016
Quant Method : C:\msdchem\2\METHODS\I-DEC22.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Dec 23 09:02:35 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.110	96	2264714	50.00	ug/L	0.00
56) Chlorobenzene-d5	10.226	117	1558936	50.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	12.591	152	761729	50.00	ug/L	0.00
106) Tert Butyl Alcohol-d10	4.690	65	213408	250.00	ug/L	0.00
System Monitoring Compounds						
36) Dibromofluoromethane	6.275	113	584101	51.09	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 102.18%			
46) 1,2-Dichloroethane-d4	6.830	65	782098	48.44	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 96.88%			
57) Toluene-d8	8.677	98	2157472	50.61	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 101.22%			
79) 4-Bromofluorobenzene	11.439	174	555489	50.07	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 100.14%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.270	85	337197	22.35	ug/L	100
3) Chloromethane	2.483	50	455554	20.03	ug/L	99
4) 1,3-Butadiene	2.587	39	105245	6.68	ug/L	97
5) Vinyl Chloride	2.599	62	370882	21.37	ug/L	99
6) Bromomethane	2.983	94	110879	20.99	ug/L	98
7) Chloroethane	3.135	64	148605	21.45	ug/L	99
8) Trichlorofluoromethane	3.288	101	400024	24.05	ug/L	99
9) Ethyl Ether	3.587	59	313099	23.57	ug/L	98
10) 1,2-Dichlorotrifluoroe...	3.782	67	399729m	26.07	ug/L	
11) 1,1-Dichloroethene	3.818	61	532171	24.39	ug/L	99
12) Freon 113	3.898	101	262958	22.07	ug/L	97
13) Carbon Disulfide	3.879	76	810936	21.65	ug/L	99
14) Iodomethane	3.989	142	386443	22.94	ug/L	100
15) Allyl chloride	4.318	41	477441	23.95	ug/L	99
16) Methylene Chloride	4.428	49	527013	25.22	ug/L	99
17) Acetone	4.471	43	562328	164.68	ug/L	98
18) Methyl acetate	4.592	43	1139422	127.08	ug/L	99
19) trans-1,2-Dichloroethene	4.611	61	546424	26.58	ug/L	98
20) Hexane	4.690	56	380348	23.70	ug/L	99
21) Methyl Tert Butyl Ether	4.702	73	784783	25.00	ug/L	88
22) Acetonitrile	4.964	41	296970	273.41	ug/L	100
23) Di-isopropyl ether	5.086	45	1272974	25.94	ug/L	99
24) Chloroprene	5.226	53	618088	27.51	ug/L	99
25) 1,1-Dichloroethane	5.251	63	676555	27.93	ug/L	100
26) Acrylonitrile	5.281	53	551970	112.74	ug/L	99
27) ETBE	5.470	59	1092600	25.10	ug/L	99
28) Vinyl acetate	5.470	43	3434816	116.51	ug/L	100
29) cis-1,2-Dichloroethene	5.812	96	330605	27.23	ug/L	99
30) 2,2-Dichloropropane	5.934	77	345098	29.08	ug/L	99
31) Bromochloromethane	6.025	128	148763	26.38	ug/L	97
32) Cyclohexane	6.062	56	671133	25.22	ug/L	99
33) Chloroform	6.086	83	592196	25.72	ug/L	99
34) Ethyl acetate	6.171	43	1337913	105.00	ug/L	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\122916\
Data File : I44593.D
Acq On : 29 Dec 2016 8:57 am
Operator : WILFREDO
Sample : BS Inst : MSVOA16
Misc : MS35941,VI1226,,,,,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Dec 29 09:16:19 2016
Quant Method : C:\msdchem\2\METHODS\I-DEC22.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Dec 23 09:02:35 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
35) Tetrahydrofuran	6.269	42	84433	24.71	ug/L	99
37) Carbon Tetrachloride	6.263	117	379413	28.02	ug/L	99
38) 1,1,1-Trichloroethane	6.324	97	468332	25.87	ug/L	99
39) 2-Butanone	6.385	43	759175	152.84	ug/L	99
40) 1,1-Dichloropropene	6.452	75	434681	26.79	ug/L	98
41) tert-Butyl formate	6.537	59	867989	98.06	ug/L	98
42) Propionitrile	6.690	54	503908	275.65	ug/L	83
43) Methacrylonitrile	6.714	41	2017584	269.48	ug/L	100
44) Benzene	6.702	78	1275749	29.57	ug/L	91
45) TAME	6.787	73	782161	25.89	ug/L	99
47) 1,2-Dichloroethane	6.897	62	502167	25.95	ug/L	99
48) Trichloroethene	7.293	95	348814	27.64	ug/L	99
49) Methylcyclohexane	7.305	83	566856	26.89	ug/L	99
50) Dibromomethane	7.720	93	190295	26.87	ug/L	98
51) 1,2-Dichloropropane	7.811	63	366507	27.17	ug/L	99
52) Bromodichloromethane	7.860	83	404167	28.68	ug/L	99
53) Methyl methacrylate	7.982	41	255255	24.85	ug/L	99
54) 2-Chloroethyl vinyl ether	8.391	63	962636	117.44	ug/L	98
55) cis-1,3-Dichloropropene	8.482	75	477549	25.32	ug/L	99
58) Toluene	8.726	91	1289833	29.32	ug/L	99
59) 2-Nitropropane	8.933	41	330175	113.22	ug/L	99
60) 4-Methyl-2-pentanone	9.061	43	1518182	123.90	ug/L	100
61) trans-1,3-Dichloropropene	9.122	75	427914	26.86	ug/L	98
62) Tetrachloroethene	9.128	166	286797	24.35	ug/L	99
63) Ethyl methacrylate	9.244	69	337578	22.96	ug/L	100
64) 1,1,2-Trichloroethane	9.281	83	240816	27.64	ug/L	99
65) Dibromochloromethane	9.476	129	251915	24.14	ug/L	98
66) 1,3-Dichloropropane	9.561	76	464918	25.79	ug/L	98
67) 1,2-Dibromoethane	9.732	107	259740	28.49	ug/L	98
68) 2-hexanone	9.884	43	1130537	128.31	ug/L	99
69) 1-Chlorohexane	10.189	91	456429	28.72	ug/L	98
70) Ethylbenzene	10.250	91	1464702	29.56	ug/L	100
71) Chlorobenzene	10.244	112	834786	26.87	ug/L	97
72) 1,1,1,2-Tetrachloroethane	10.293	131	270859	29.25	ug/L	98
73) m,p-Xylene	10.390	91	2311574	60.78	ug/L	100
74) o-Xylene	10.829	91	1136370	28.88	ug/L	99
75) Styrene	10.878	104	823594	27.75	ug/L	100
76) Bromoform	10.927	173	113314	21.39	ug/L	97
77) Isopropylbenzene	11.134	105	1369498	29.53	ug/L	100
80) cis-1,4-Dichloro-2-butene	11.481	53	33278	23.10	ug/L	95
81) n-Propylbenzene	11.555	91	1736973	28.28	ug/L	100
82) Bromobenzene	11.561	156	319561	29.11	ug/L	99
83) 1,1,2,2-Tetrachloroethane	11.616	83	345917	25.58	ug/L	100
84) 1,3,5-Trimethylbenzene	11.744	105	1163042	30.81	ug/L	99
85) 2-Chlorotoluene	11.737	91	1159221	28.21	ug/L	99
86) trans-1,4-Dichloro-2-B...	11.798	53	46723	22.81	ug/L	99
87) 1,2,3-Trichloropropane	11.768	110	92666	26.42	ug/L	96
88) Cyclohexanone	11.823	55	235708	396.28	ug/L	99
89) 4-Chlorotoluene	11.902	91	1040779	27.85	ug/L	100
90) tert-Butylbenzene	12.079	91	693090	27.62	ug/L	99

SGS ACCUTEST FA39742

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\122916\
Data File : I44593.D
Acq On : 29 Dec 2016 8:57 am
Operator : WILFREDO
Sample : BS Inst : MSVOA16
Misc : MS35941,VI1226,,,,,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Dec 29 09:16:19 2016
Quant Method : C:\msdchem\2\METHODS\I-DEC22.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Dec 23 09:02:35 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
91) a-Methyl styrene	12.079	118	15885	0.68	ug/L #	1
92) 1,2,4-Trimethylbenzene	12.146	105	1151624	30.88	ug/L	100
93) Pentachloroethane	12.121	167	158214	31.46	ug/L	98
94) sec-Butylbenzene	12.262	105	1515062	28.81	ug/L	100
95) 4-Isopropyltoluene	12.402	119	1196733	28.21	ug/L	99
96) 1,3-Dichlorobenzene	12.518	146	611638	27.63	ug/L	99
97) 1,4-Dichlorobenzene	12.603	146	625114	27.12	ug/L	99
98) n-Butylbenzene	12.841	92	746278	28.27	ug/L	92
99) Benzyl Chloride	12.847	126	104041	25.10	ug/L #	65
100) 1,2-Dichlorobenzene	13.048	146	561807	26.30	ug/L	99
101) 1,2-Dibromo-3-Chloropr...	13.828	75	43789	20.61	ug/L	98
102) Hexachlorobutadiene	14.414	225	155720	27.67	ug/L	100
103) 1,2,4-Trichlorobenzene	14.450	180	361212	25.77	ug/L	99
104) Naphthalene	14.731	128	861187	27.56	ug/L	100
105) 1,2,3-Trichlorobenzene	14.889	180	323184	28.94	ug/L	99
107) Ethanol	3.727	45	68256m	582.35	ug/L	
108) Acrolein	4.166	56	278572	137.91	ug/L	99
109) Tert Butyl Alcohol	4.769	59	361809	338.96	ug/L	92
110) Isobutyl alcohol	6.842	43	231782	502.84	ug/L	89
111) Tert Amyl Alcohol	6.952	59	196134	234.99	ug/L	95
112) 1,4-Dioxane	8.049	88	47421	508.30	ug/L	96
113) 3,3-Dimethyl-1-butanol	9.841	57	1076694	1029.88	ug/L	99

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

7.3.2

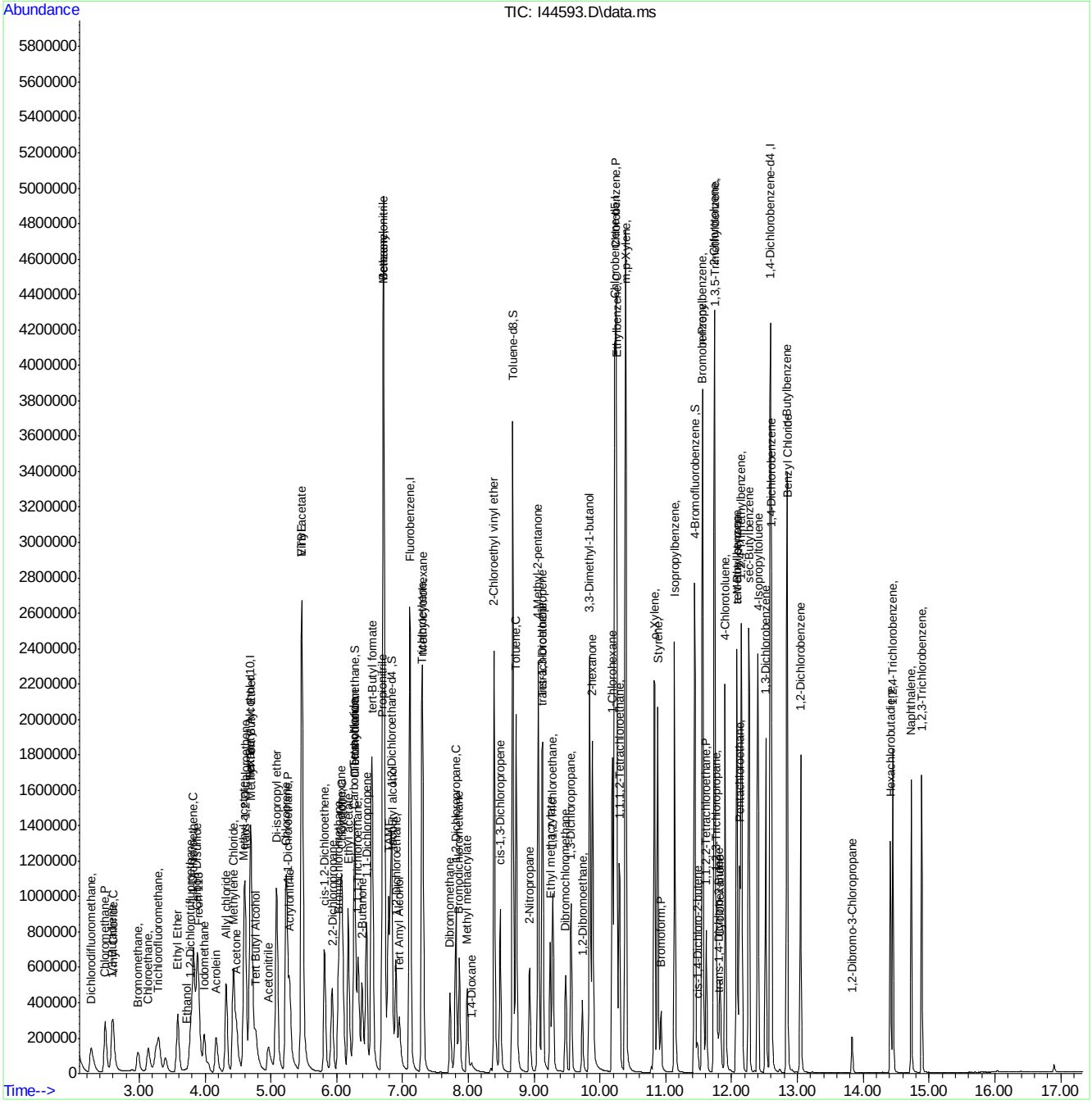
7

SGS ACCUTEST FA39742

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\122916\
Data File : I44593.D
Acq On : 29 Dec 2016 8:57 am
Operator : WILFREDO
Sample : BS Inst : MSVOA16
Misc : MS35941,VI1226,,,,,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Dec 29 09:16:19 2016
Quant Method : C:\msdchem\2\METHODS\I-DEC22.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Dec 23 09:02:35 2016
Response via : Initial Calibration



SGS ACCUTEST FA39742

Manual Integration Approval Summary

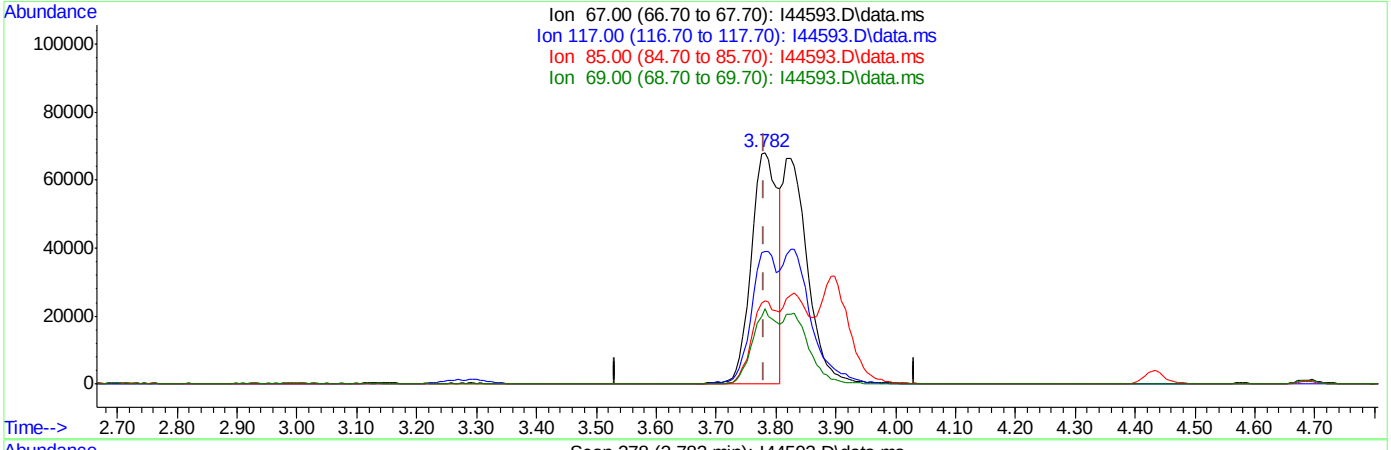
Sample Number:	VI1227-BS	**Method:**	SW846 8260C
Lab FileID:	I44593.D	**Analyst approved:**	12/29/16 16:12 Wilfredo Vazquez
Injection Time:	12/29/16 08:57	**Supervisor approved:**	12/30/16 16:19 Juan Garcia

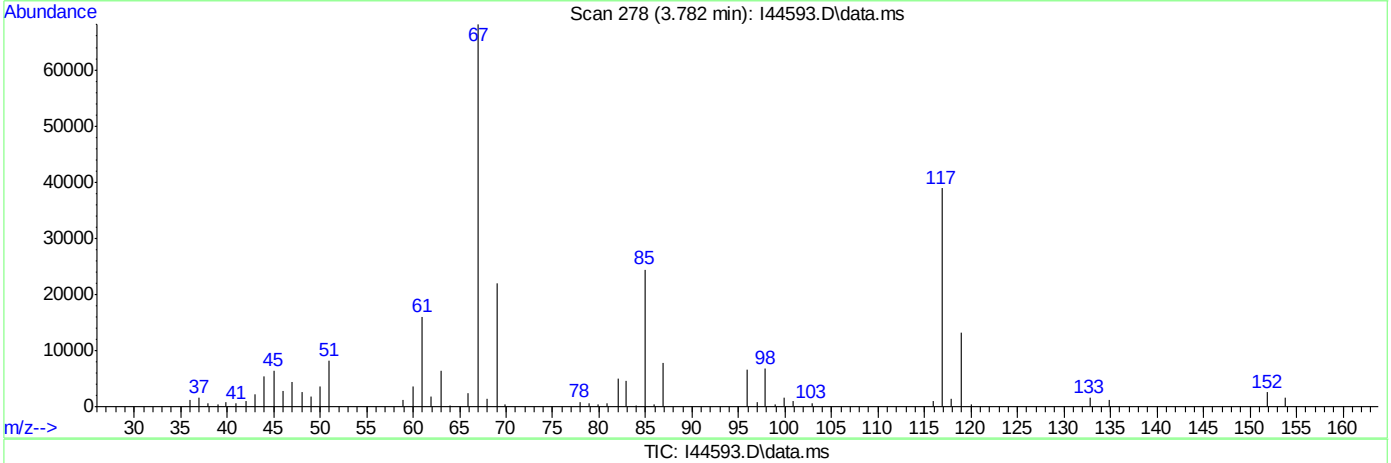
Parameter	CAS	Sig#	R.T. (min.)	Reason
Ethyl Alcohol	64-17-5		3.73	Poor instrument integration
1,2-Dichlorotrifluoroethane	354-23-4		3.78	Split peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\DATA\122916\
Data File : I44593.D
Acq On : 29 Dec 2016 8:57 am
Operator : WILFREDO
Sample : BS Inst : MSVOA16
Misc : MS35941,VI1226,,,,,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Dec 29 09:14:16 2016
Quant Method : C:\msdchem\2\METHODS\I-DEC22.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Dec 23 09:02:35 2016
Response via : Initial Calibration





TIC: I44593.D\data.ms

(10) 1,2-Dichlorotrifluoroethane

3.782min (+0.000) 13.64ug/L

response 209168

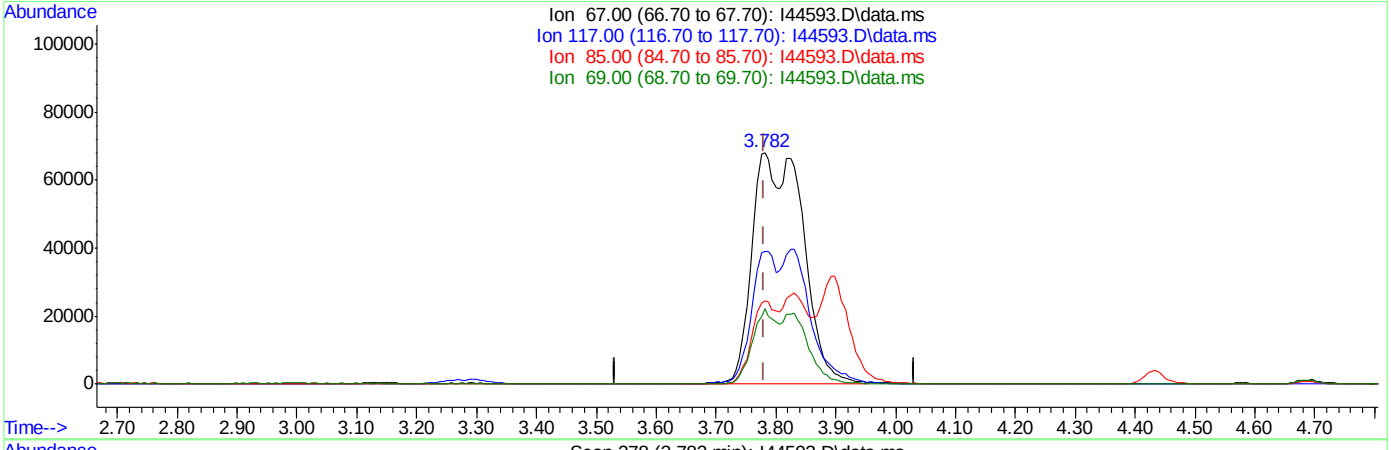
Ion	Exp%	Act%
67.00	100	100
117.00	57.70	57.09
85.00	36.80	35.86
69.00	29.70	32.38

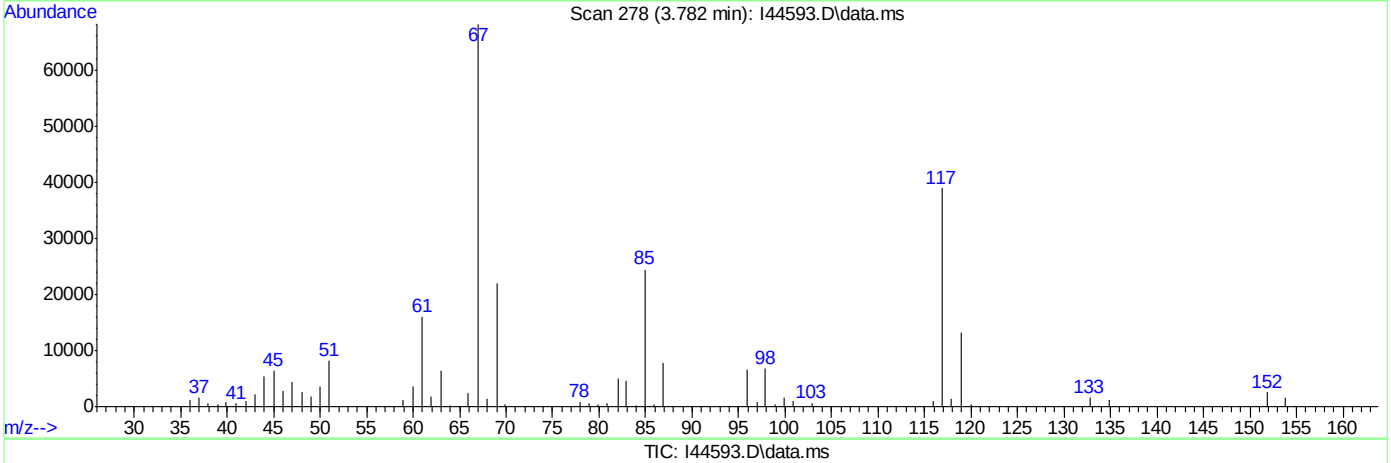
SGS ACCUTEST FA39742

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\DATA\122916\
Data File : I44593.D
Acq On : 29 Dec 2016 8:57 am
Operator : WILFREDO
Sample : BS Inst : MSVOA16
Misc : MS35941,VI1226,,,,,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Dec 29 09:14:16 2016
Quant Method : C:\msdchem\2\METHODS\I-DEC22.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Dec 23 09:02:35 2016
Response via : Initial Calibration





TIC: I44593.D\data.ms

(10) 1,2-Dichlorotrifluoroethane

3.782min (+0.000) 26.07ug/L m

response 399729

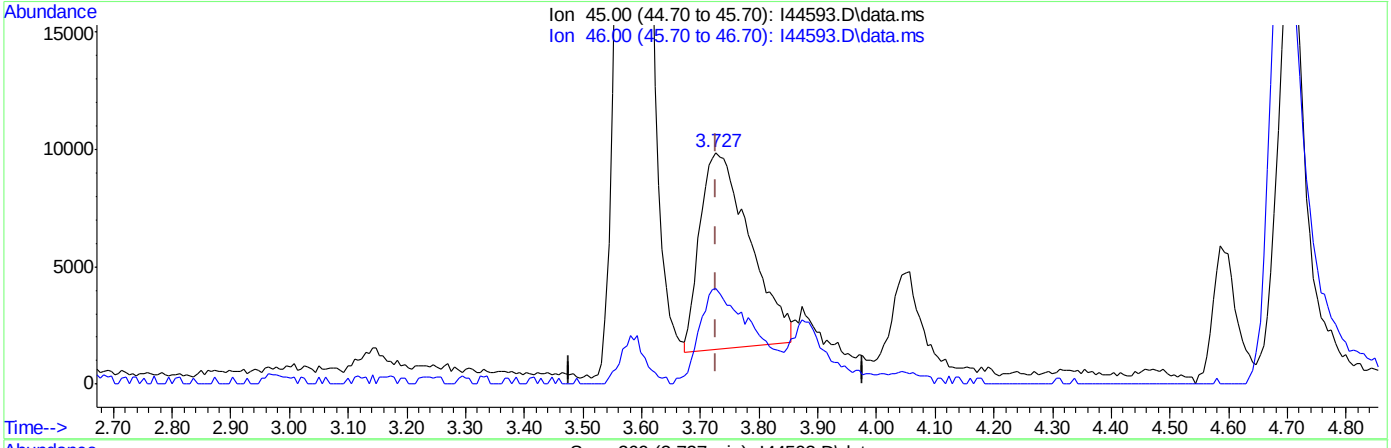
Ion	Exp%	Act%
67.00	100	100
117.00	57.70	57.09
85.00	36.80	35.86
69.00	29.70	32.38

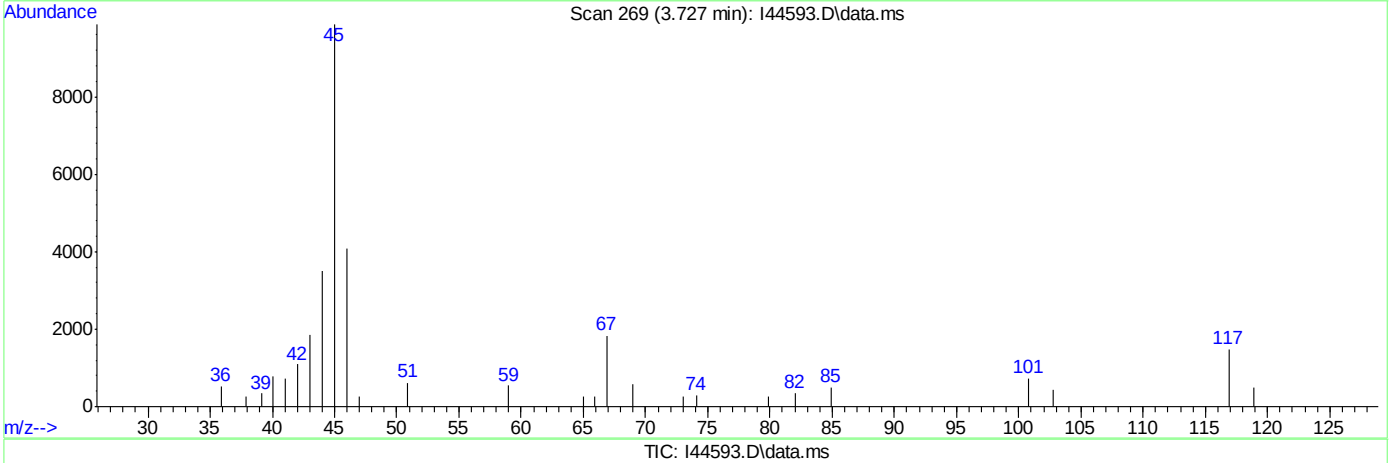
SGS ACCUTEST FA39742

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\DATA\122916\
Data File : I44593.D
Acq On : 29 Dec 2016 8:57 am
Operator : WILFREDO
Sample : BS Inst : MSVOA16
Misc : MS35941,VI1226,,,,,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Dec 29 09:14:16 2016
Quant Method : C:\msdchem\2\METHODS\I-DEC22.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Dec 23 09:02:35 2016
Response via : Initial Calibration





TIC: I44593.D\data.ms

(107) Ethanol

3.727min (-0.000) 421.35ug/L

response 49385

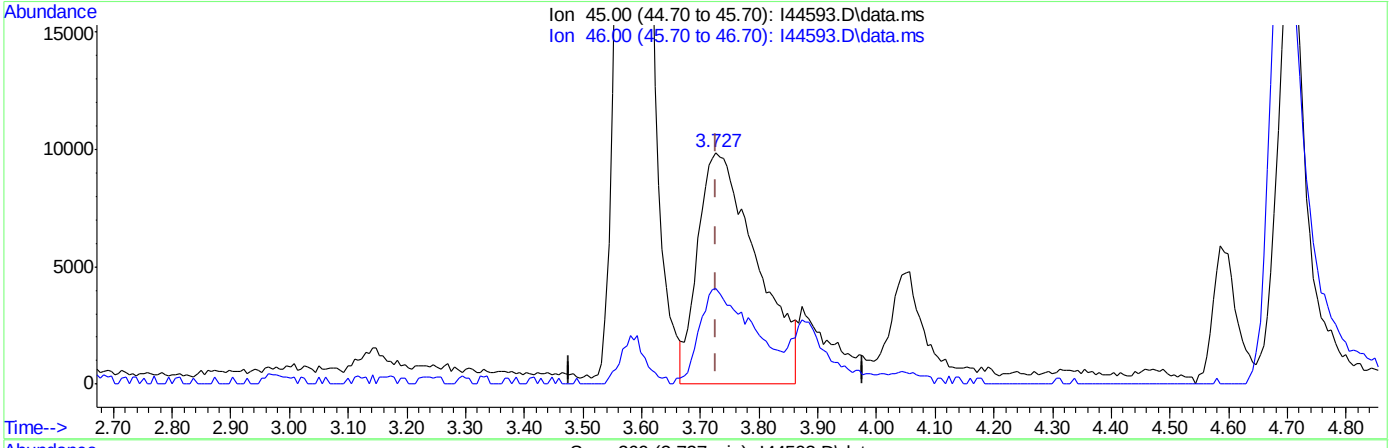
Ion	Exp%	Act%
45.00	100	100
46.00	37.40	45.92
0.00	0.00	0.00
0.00	0.00	0.00

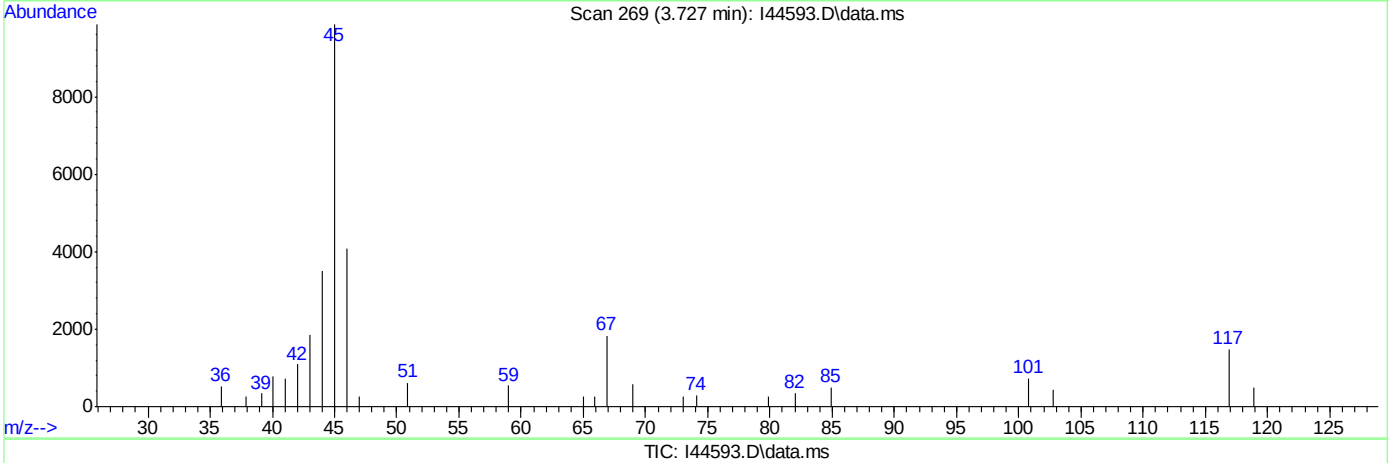
SGS ACCUTEST FA39742

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\DATA\122916\
Data File : I44593.D
Acq On : 29 Dec 2016 8:57 am
Operator : WILFREDO
Sample : BS Inst : MSVOA16
Misc : MS35941,VI1226,,,,,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Dec 29 09:14:16 2016
Quant Method : C:\msdchem\2\METHODS\I-DEC22.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Dec 23 09:02:35 2016
Response via : Initial Calibration





TIC: I44593.D\data.ms

(107) Ethanol

3.727min (-0.000) 582.35ug/L m

response 68256

Ion	Exp%	Act%
45.00	100	100
46.00	37.40	41.39
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integrations APPROVED (compounds with "m" flag)
Juan Garcia
01/03/17 16:30

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\123016\
Data File : I44652.D
Acq On : 30 Dec 2016 11:06 am
Operator : WILFREDO
Sample : BS Inst : MSVOA16
Misc : MS35973,VI1229,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 30 11:40:18 2016
Quant Method : C:\msdchem\2\METHODS\I-DEC22.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Dec 23 09:02:35 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.110	96	2386340	50.00	ug/L	0.00
56) Chlorobenzene-d5	10.226	117	1629610	50.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	12.591	152	776984	50.00	ug/L	0.00
106) Tert Butyl Alcohol-d10	4.696	65	235057	250.00	ug/L	0.00
System Monitoring Compounds						
36) Dibromofluoromethane	6.275	113	621895	51.62	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 103.24%			
46) 1,2-Dichloroethane-d4	6.824	65	802973	47.20	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 94.40%			
57) Toluene-d8	8.671	98	2232732	50.11	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 100.22%			
79) 4-Bromofluorobenzene	11.439	174	575488	50.85	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 101.70%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.270	85	289217	18.19	ug/L	98
3) Chloromethane	2.477	50	416136	17.36	ug/L	99
4) 1,3-Butadiene	2.581	39	70746	4.26	ug/L	98
5) Vinyl Chloride	2.599	62	343182	18.77	ug/L	100
6) Bromomethane	2.977	94	99857	17.68	ug/L	99
7) Chloroethane	3.129	64	134506	17.98	ug/L	99
8) Trichlorofluoromethane	3.288	101	372857	21.27	ug/L	100
9) Ethyl Ether	3.587	59	323527	23.12	ug/L	97
10) 1,2-Dichlorotrifluoroe...	3.776	67	391931m	24.26	ug/L	
11) 1,1-Dichloroethene	3.818	61	595698	25.92	ug/L	98
12) Freon 113	3.891	101	297534	23.70	ug/L	97
13) Carbon Disulfide	3.879	76	960573	24.34	ug/L	96
14) Iodomethane	3.983	142	451263	25.42	ug/L	100
15) Allyl chloride	4.318	41	457808	21.80	ug/L	97
16) Methylene Chloride	4.428	49	550222	24.99	ug/L	97
17) Acetone	4.471	43	456982	127.01	ug/L	96
18) Methyl acetate	4.586	43	1166387	123.46	ug/L	98
19) trans-1,2-Dichloroethene	4.605	61	583259	26.92	ug/L	96
20) Hexane	4.684	56	423600	25.05	ug/L	97
21) Methyl Tert Butyl Ether	4.702	73	833742	25.21	ug/L	97
22) Acetonitrile	4.958	41	275176	240.43	ug/L	98
23) Di-isopropyl ether	5.086	45	1262189	24.41	ug/L	98
24) Chloroprene	5.227	53	575761	24.32	ug/L	99
25) 1,1-Dichloroethane	5.245	63	713770	27.97	ug/L	98
26) Acrylonitrile	5.281	53	553828	107.35	ug/L	98
27) ETBE	5.464	59	1115935	24.33	ug/L	99
28) Vinyl acetate	5.470	43	3357852	108.09	ug/L	100
29) cis-1,2-Dichloroethene	5.812	96	349232	27.30	ug/L	99
30) 2,2-Dichloropropane	5.928	77	368381	29.46	ug/L	100
31) Bromochloromethane	6.025	128	154408	25.98	ug/L	90
32) Cyclohexane	6.056	56	708131	25.25	ug/L	97
33) Chloroform	6.080	83	613885	25.30	ug/L	99
34) Ethyl acetate	6.171	43	1341256	99.90	ug/L	100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\123016\
Data File : I44652.D
Acq On : 30 Dec 2016 11:06 am
Operator : WILFREDO
Sample : BS Inst : MSVOA16
Misc : MS35973,VI1229,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 30 11:40:18 2016
Quant Method : C:\msdchem\2\METHODS\I-DEC22.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Dec 23 09:02:35 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
35) Tetrahydrofuran	6.269	42	87151	24.21 ug/L	97
37) Carbon Tetrachloride	6.263	117	405813	28.44 ug/L	97
38) 1,1,1-Trichloroethane	6.324	97	495273	25.97 ug/L	100
39) 2-Butanone	6.385	43	679396	129.81 ug/L	95
40) 1,1-Dichloropropene	6.452	75	455697	26.65 ug/L	97
41) tert-Butyl formate	6.531	59	839548	90.01 ug/L	98
42) Propionitrile	6.684	54	488651	253.68 ug/L	93
43) Methacrylonitrile	6.708	41	1873900	237.53 ug/L	97
44) Benzene	6.702	78	1325432	29.16 ug/L	90
45) TAME	6.787	73	808679	25.40 ug/L	98
47) 1,2-Dichloroethane	6.897	62	505037	24.77 ug/L	99
48) Trichloroethene	7.293	95	350168	26.34 ug/L	97
49) Methylcyclohexane	7.299	83	591083	26.61 ug/L	99
50) Dibromomethane	7.720	93	195603	26.22 ug/L	96
51) 1,2-Dichloropropane	7.805	63	378724	26.65 ug/L	98
52) Bromodichloromethane	7.860	83	425069	28.62 ug/L	100
53) Methyl methacrylate	7.982	41	243288	22.48 ug/L	96
54) 2-Chloroethyl vinyl ether	8.391	63	971242	112.46 ug/L	99
55) cis-1,3-Dichloropropene	8.482	75	507515	25.54 ug/L	97
58) Toluene	8.726	91	1314066	28.57 ug/L	100
59) 2-Nitropropane	8.927	41	330633	108.46 ug/L	99
60) 4-Methyl-2-pentanone	9.061	43	1395758	108.97 ug/L	99
61) trans-1,3-Dichloropropene	9.116	75	449409	26.99 ug/L	98
62) Tetrachloroethene	9.128	166	295607	24.01 ug/L	97
63) Ethyl methacrylate	9.238	69	337464	21.96 ug/L	98
64) 1,1,2-Trichloroethane	9.281	83	243682	26.75 ug/L	98
65) Dibromochloromethane	9.476	129	264593	24.26 ug/L	97
66) 1,3-Dichloropropane	9.561	76	483367	25.65 ug/L	95
67) 1,2-Dibromoethane	9.732	107	265317	27.84 ug/L	99
68) 2-hexanone	9.884	43	1028865	111.71 ug/L	97
69) 1-Chlorohexane	10.189	91	452071	27.21 ug/L	95
70) Ethylbenzene	10.250	91	1510410	29.16 ug/L	99
71) Chlorobenzene	10.238	112	872497	26.86 ug/L	97
72) 1,1,1,2-Tetrachloroethane	10.293	131	285247	29.47 ug/L	99
73) m,p-Xylene	10.390	91	2313385	58.19 ug/L	100
74) o-Xylene	10.823	91	1159635	28.19 ug/L	100
75) Styrene	10.878	104	838198	27.02 ug/L	98
76) Bromoform	10.927	173	132109	23.85 ug/L	98
77) Isopropylbenzene	11.134	105	1396117	28.80 ug/L	100
80) cis-1,4-Dichloro-2-butene	11.481	53	52375	33.44 ug/L	94
81) n-Propylbenzene	11.555	91	1745780	27.86 ug/L	99
82) Bromobenzene	11.561	156	326162	29.13 ug/L	100
83) 1,1,2,2-Tetrachloroethane	11.616	83	362815	26.30 ug/L	100
84) 1,3,5-Trimethylbenzene	11.744	105	1173841	30.49 ug/L	99
85) 2-Chlorotoluene	11.737	91	1157563	27.62 ug/L	99
86) trans-1,4-Dichloro-2-B...	11.798	53	67935	31.26 ug/L	95
87) 1,2,3-Trichloropropane	11.768	110	96779	27.05 ug/L	93
88) Cyclohexanone	11.823	55	193279	328.85 ug/L	98
89) 4-Chlorotoluene	11.902	91	1049969	27.54 ug/L	99
90) tert-Butylbenzene	12.079	91	692585	27.06 ug/L	97

SGS ACCUTEST FA39742

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\123016\
Data File : I44652.D
Acq On : 30 Dec 2016 11:06 am
Operator : WILFREDO
Sample : BS Inst : MSVOA16
Misc : MS35973,VI1229,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 30 11:40:18 2016
Quant Method : C:\msdchem\2\METHODS\I-DEC22.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Dec 23 09:02:35 2016
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
92)	1,2,4-Trimethylbenzene	12.146	105	1159979	30.49	ug/L		99
93)	Pentachloroethane	12.122	167	159075	31.01	ug/L		98
94)	sec-Butylbenzene	12.262	105	1527958	28.49	ug/L		99
95)	4-Isopropyltoluene	12.396	119	1242862	28.73	ug/L		99
96)	1,3-Dichlorobenzene	12.518	146	620017	27.46	ug/L		99
97)	1,4-Dichlorobenzene	12.603	146	632693	26.91	ug/L		98
98)	n-Butylbenzene	12.841	92	754406	28.02	ug/L		94
99)	Benzyl Chloride	12.847	126	107791	25.48	ug/L	#	83
100)	1,2-Dichlorobenzene	13.048	146	596984	27.39	ug/L		99
101)	1,2-Dibromo-3-Chloropr...	13.829	75	46667	21.54	ug/L		98
102)	Hexachlorobutadiene	14.414	225	161335	28.10	ug/L		99
103)	1,2,4-Trichlorobenzene	14.450	180	380424	26.61	ug/L		99
104)	Naphthalene	14.731	128	927514	29.10	ug/L		100
105)	1,2,3-Trichlorobenzene	14.889	180	335430	29.44	ug/L		99
107)	Ethanol	3.727	45	63996m	495.72	ug/L		
108)	Acrolein	4.166	56	292393	131.42	ug/L		99
109)	Tert Butyl Alcohol	4.769	59	391916	333.35	ug/L		89
110)	Isobutyl alcohol	6.842	43	227440	447.97	ug/L		88
111)	Tert Amyl Alcohol	6.952	59	206801	224.95	ug/L		97
112)	1,4-Dioxane	8.049	88	53569	521.32	ug/L		97
113)	3,3-Dimethyl-1-butanol	9.841	57	1163327	1010.26	ug/L		100

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

7.3.3

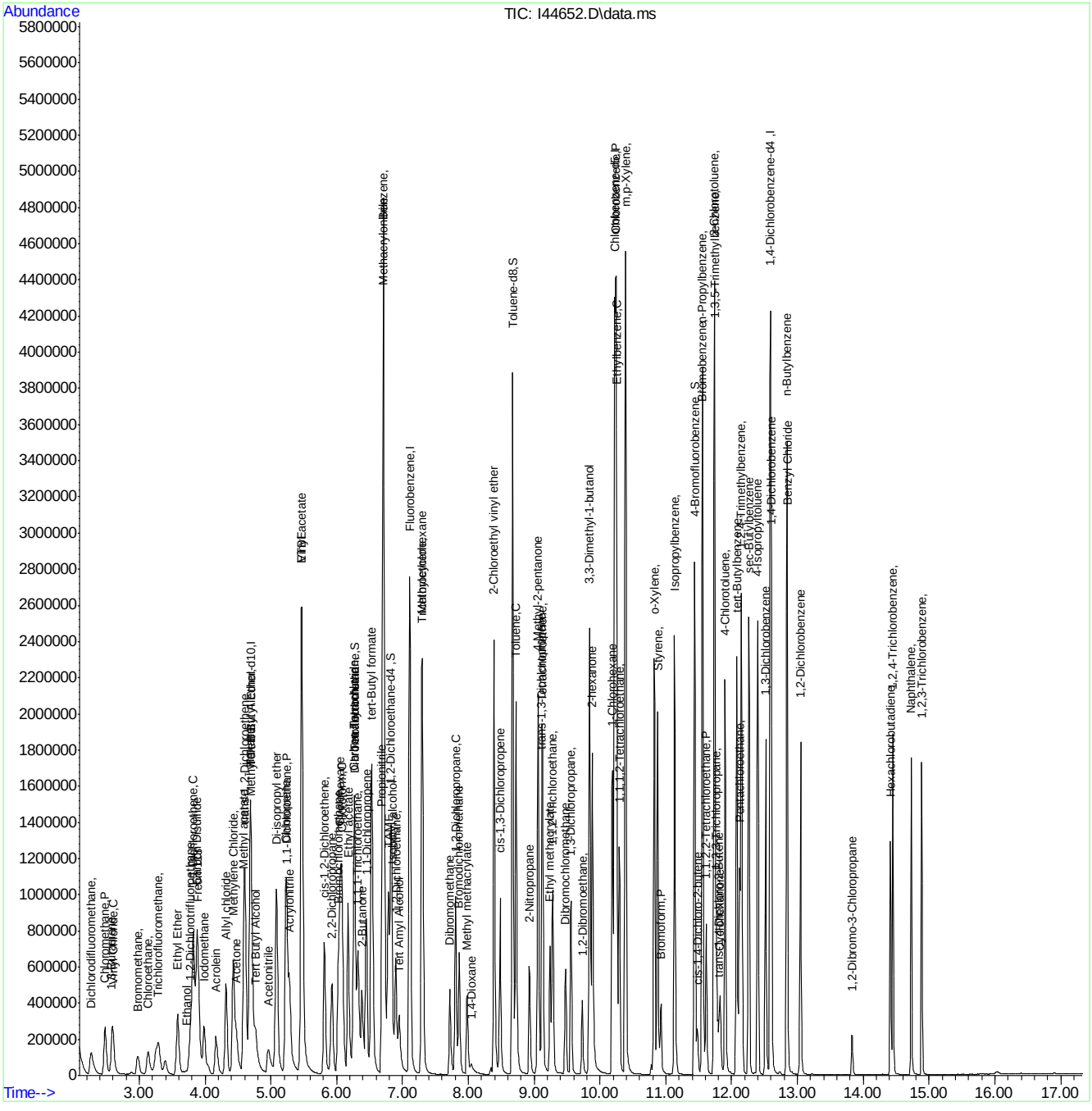
7

SGS ACCUTEST FA39742

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\123016\
Data File : I44652.D
Acq On : 30 Dec 2016 11:06 am
Operator : WILFREDO
Sample : BS Inst : MSVOA16
Misc : MS35973,VI1229,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 30 11:40:18 2016
Quant Method : C:\msdchem\2\METHODS\I-DEC22.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Dec 23 09:02:35 2016
Response via : Initial Calibration



SGS ACCUTEST FA39742

Manual Integration Approval Summary

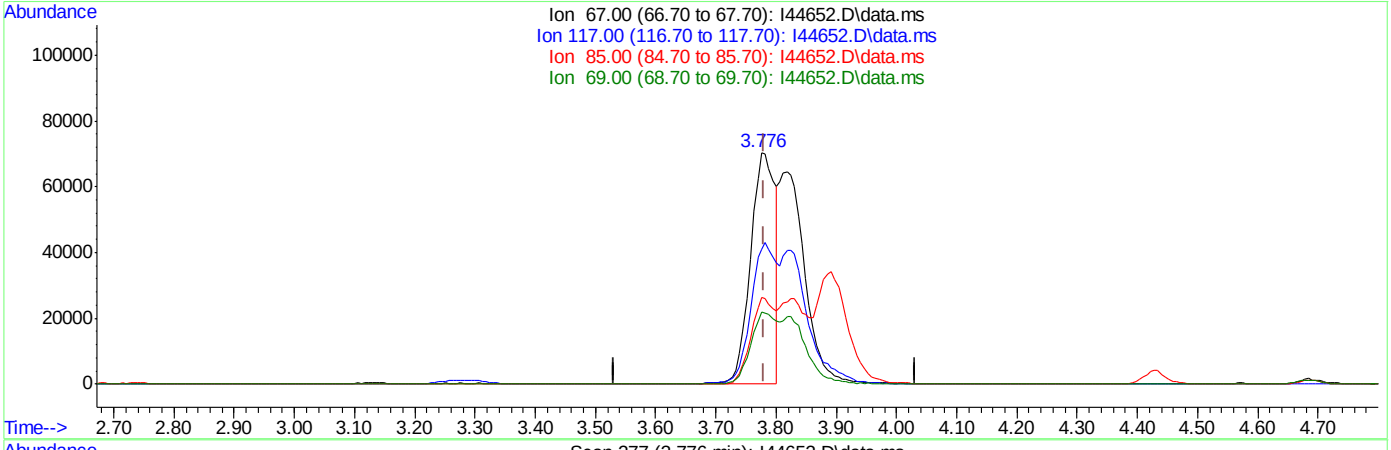
Sample Number:	VI1230-BS	**Method:**	SW846 8260C
Lab FileID:	I44652.D	**Analyst approved:**	12/31/16 11:37 Wilfredo Vazquez
Injection Time:	12/30/16 11:06	**Supervisor approved:**	01/03/17 16:30 Juan Garcia

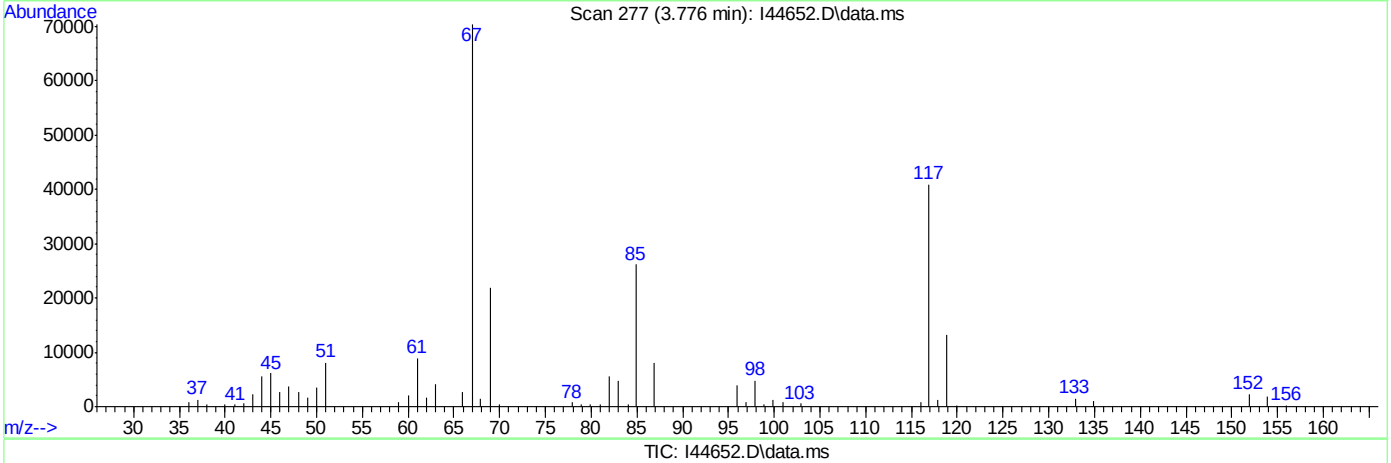
Parameter	CAS	Sig#	R.T. (min.)	Reason
Ethyl Alcohol	64-17-5		3.73	Poor instrument integration
1,2-Dichlorotrifluoroethane	354-23-4		3.78	Split peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\DATA\123016\
Data File : I44652.D
Acq On : 30 Dec 2016 11:06 am
Operator : WILFREDO
Sample : BS Inst : MSVOA16
Misc : MS35973,VI1229,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 30 11:39:41 2016
Quant Method : C:\msdchem\2\METHODS\I-DEC22.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Dec 23 09:02:35 2016
Response via : Initial Calibration





TIC: I44652.D\data.ms

(10) 1,2-Dichlorotrifluoroethane

3.776min (-0.006) 12.29ug/L

response 198555

Ion	Exp%	Act%
67.00	100	100
117.00	57.70	58.13
85.00	36.80	37.22
69.00	29.70	31.02

SGS ACCUTEST FA39742

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\DATA\123016\
Data File : I44652.D
Acq On : 30 Dec 2016 11:06 am
Operator : WILFREDO
Sample : BS Inst : MSVOA16
Misc : MS35973,VI1229,,,,,
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Quant Time: Dec 30 11:39:41 2016
Quant Method : C:\msdchem\2\METHODS\I-DEC22.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Dec 23 09:02:35 2016
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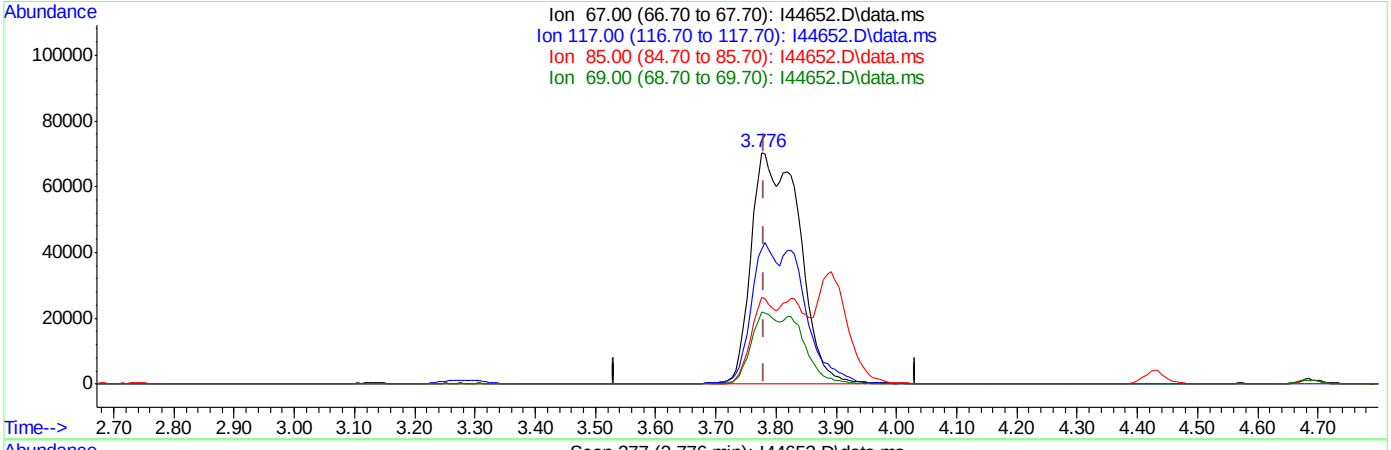
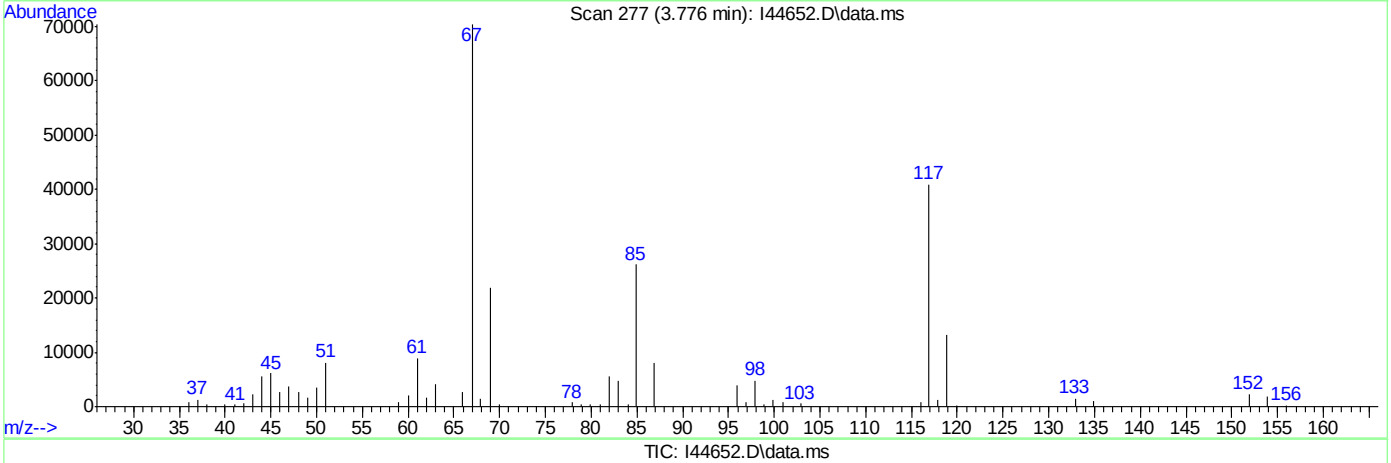




TIC: I44652.D\data.ms

(10) 1,2-Dichlorotrifluoroethane

3.776min (-0.006) 24.26ug/L m

response 391931

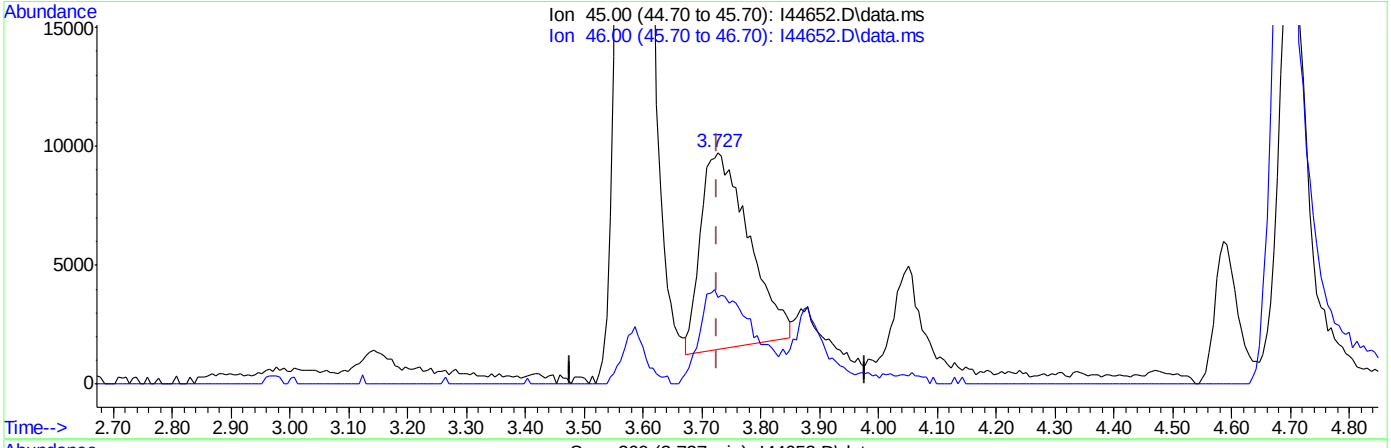
Ion	Exp%	Act%
67.00	100	100
117.00	57.70	58.13
85.00	36.80	37.22
69.00	29.70	31.02

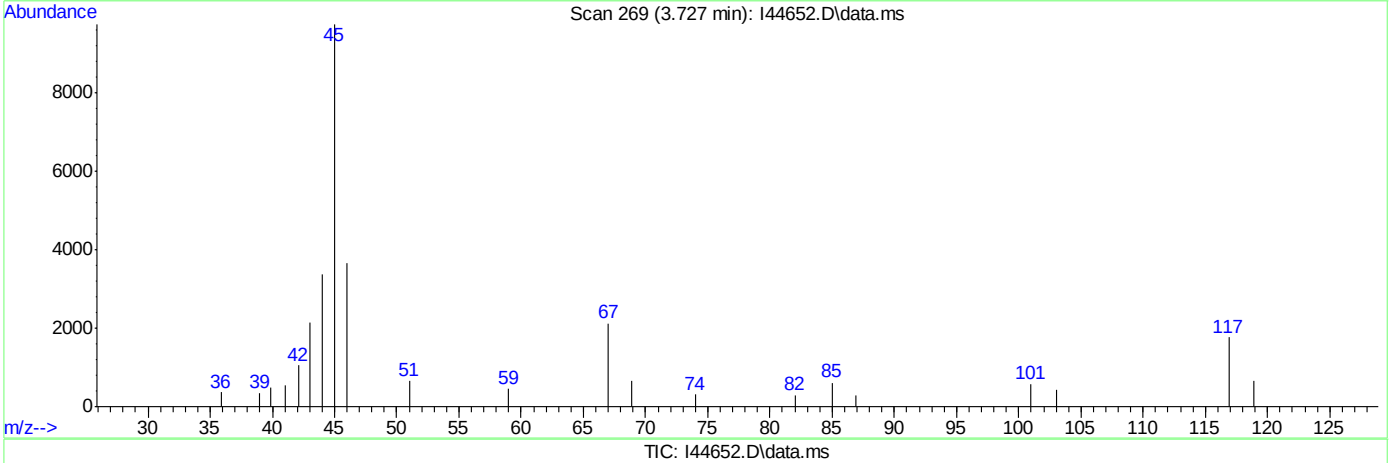
SGS ACCUTEST FA39742

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\DATA\123016\
Data File : I44652.D
Acq On : 30 Dec 2016 11:06 am
Operator : WILFREDO
Sample : BS Inst : MSVOA16
Misc : MS35973,VI1229,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 30 11:39:41 2016
Quant Method : C:\msdchem\2\METHODS\I-DEC22.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Dec 23 09:02:35 2016
Response via : Initial Calibration





TIC: I44652.D\data.ms

(107) Ethanol

3.727min (-0.000) 364.25ug/L

response 47023

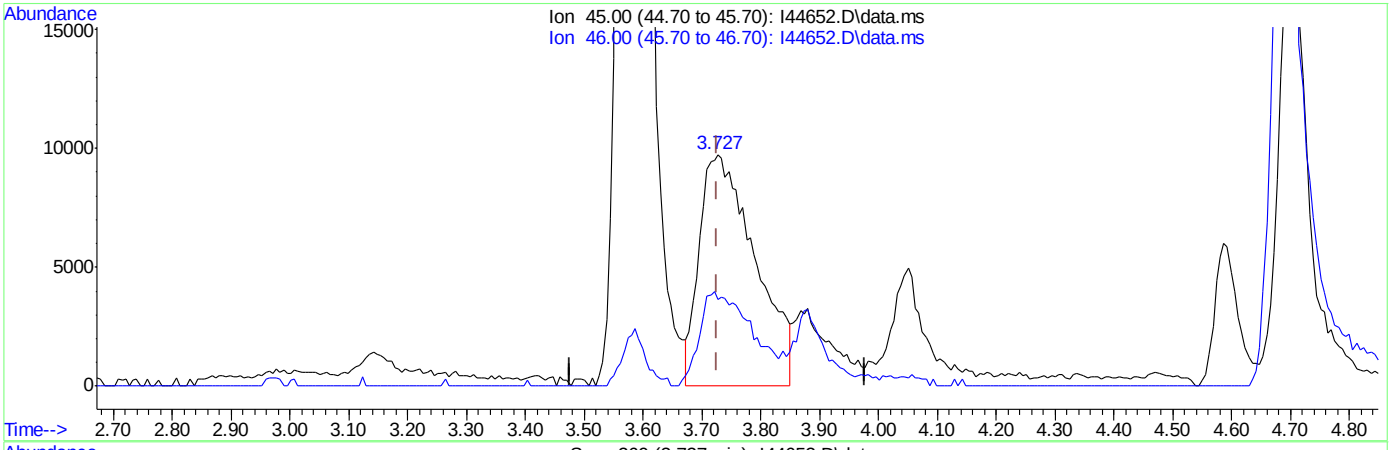
Ion	Exp%	Act%
45.00	100	100
46.00	37.40	41.58
0.00	0.00	0.00
0.00	0.00	0.00

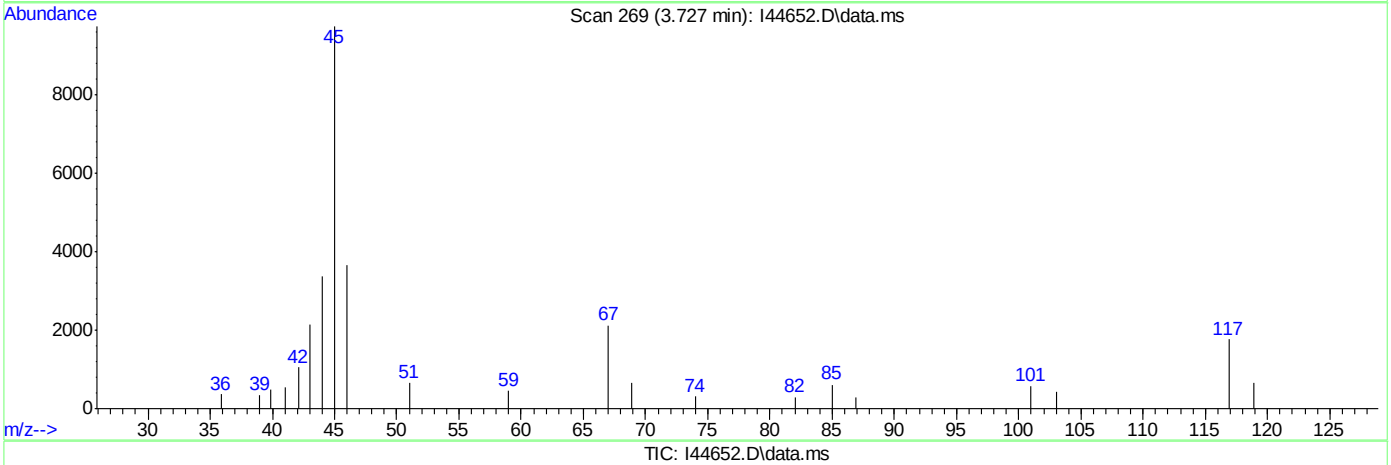
SGS ACCUTEST FA39742

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\DATA\123016\
Data File : I44652.D
Acq On : 30 Dec 2016 11:06 am
Operator : WILFREDO
Sample : BS Inst : MSVOA16
Misc : MS35973,VI1229,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 30 11:39:41 2016
Quant Method : C:\msdchem\2\METHODS\I-DEC22.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Dec 23 09:02:35 2016
Response via : Initial Calibration





TIC: I44652.D\data.ms

(107) Ethanol

3.727min (-0.000) 495.72ug/L m

response 63996

Ion	Exp%	Act%
45.00	100	100
46.00	37.40	37.58
0.00	0.00	0.00
0.00	0.00	0.00

SGS ACCUTEST FA39742

Manual Integrations APPROVED (compounds with "m" flag)
Juan Garcia
01/04/17 11:21

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\010317\
Data File : J0981918.D
Acq On : 3 Jan 2017 11:15 am
Operator : darshnap
Sample : bs ma Inst : MSVOA6
Misc : MS35986,VJ5531,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 03 11:35:53 2017
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jan 03 09:58:33 2017
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.728	96	739069	50.00	ug/L	0.00
56) Chlorobenzene-d5	10.824	117	520457	50.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	13.186	152	286971	50.00	ug/L	0.00
106) Tert Butyl Alcohol-d10	5.278	65	90045	250.00	ug/L	0.00
System Monitoring Compounds						
36) Dibromofluoromethane	6.905	113	169877	48.69	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 97.38%			
46) 1,2-Dichloroethane-d4	7.458	65	242819	51.75	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 103.50%			
57) Toluene-d8	9.279	98	696929	50.42	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 100.84%			
79) 4-Bromofluorobenzene	12.035	95	289355	50.55	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 101.10%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.657	85	199088	24.77	ug/L	99
3) Chloromethane	2.869	50	261466	22.45	ug/L	95
4) Vinyl Chloride	3.010	62	156395	22.12	ug/L	98
5) 1,3-Butadiene	2.992	54	4457	1.00	ug/L #	81
6) Bromomethane	3.433	94	74907	19.25	ug/L	90
7) Chloroethane	3.586	64	67564	24.53	ug/L	91
8) Trichlorofluoromethane	3.809	101	203880m	23.72	ug/L	
9) Ethyl Ether	4.097	59	158489	25.27	ug/L	98
10) 1,2-Dichlorotrifluoroe...	4.326	67	202536	26.12	ug/L	94
11) 1,1-Dichloroethene	4.373	61	299233	27.75	ug/L	92
12) Freon 113	4.438	101	166541	25.39	ug/L	95
13) Carbon Disulfide	4.449	76	560422	24.89	ug/L	94
14) Iodomethane	4.567	142	272455	23.78	ug/L	94
15) Allyl chloride	4.902	41	285477	22.08	ug/L	97
16) Methylene Chloride	5.025	49	300328	26.00	ug/L	95
17) Acetone	5.043	58	110099	185.14	ug/L	91
18) Methyl acetate	5.172	74	129530	138.38	ug/L	95
19) trans-1,2-Dichloroethene	5.207	61	281255	26.85	ug/L	98
20) Hexane	5.266	56	185376	27.44	ug/L	96
21) Methyl Tert Butyl Ether	5.307	73	542478	26.08	ug/L	94
22) Acetonitrile	5.572	40	109577	217.66	ug/L	93
23) Di-isopropyl ether	5.689	45	745658	26.69	ug/L	96
24) Chloroprene	5.848	53	268174	22.26	ug/L	96
25) 1,1-Dichloroethane	5.871	63	355077	28.33	ug/L	95
26) Acrylonitrile	5.901	53	342493	130.85	ug/L	96
27) ETBE	6.089	59	667122	25.88	ug/L	96
28) Vinyl acetate	6.083	43	2104164	124.84	ug/L	100
29) cis-1,2-Dichloroethene	6.447	96	199059	25.72	ug/L	94
30) 2,2-Dichloropropane	6.576	77	301631	28.01	ug/L	99
31) Bromochloromethane	6.665	128	88390	24.90	ug/L	97
32) Cyclohexane	6.712	56	384580	27.34	ug/L	97
33) Chloroform	6.712	83	323772	25.47	ug/L	95
34) Ethyl acetate	6.782	43	854436	132.06	ug/L	97

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\010317\
Data File : J0981918.D
Acq On : 3 Jan 2017 11:15 am
Operator : darshnap
Sample : bs ma Inst : MSVOA6
Misc : MS35986,VJ5531,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 03 11:35:53 2017
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jan 03 09:58:33 2017
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
35) Tetrahydrofuran	6.894	42	56411	26.44 ug/L	97
37) Carbon Tetrachloride	6.911	117	243423m	27.68 ug/L	
38) 1,1,1-Trichloroethane	6.970	97	283361	25.47 ug/L	98
39) 2-Butanone	6.999	43	540290	174.20 ug/L	95
40) 1,1-Dichloropropene	7.082	75	235959	26.24 ug/L	95
41) tert-Butyl Formate	7.164	59	2129074	288.17 ug/L	97
42) Propionitrile	7.305	54	218058	225.59 ug/L	88
43) Methacrylonitrile	7.334	41	989566	232.49 ug/L	97
44) Benzene	7.328	78	690179	28.35 ug/L	89
45) TAME	7.411	73	558384	26.55 ug/L	94
47) 1,2-Dichloroethane	7.522	62	268321	27.52 ug/L	96
48) Trichloroethene	7.910	95	187043	27.12 ug/L	98
49) Methylcyclohexane	7.934	83	336435	27.25 ug/L	94
50) Dibromomethane	8.339	93	109697	26.25 ug/L	95
51) 1,2-Dichloropropane	8.421	63	200679	27.36 ug/L	96
52) Bromodichloromethane	8.474	83	238770	26.11 ug/L	97
53) Methyl methacrylate	8.568	41	165629	24.17 ug/L	93
54) 2-Chloroethyl vinyl ether	8.985	63	587482	134.96 ug/L	98
55) cis-1,3-Dichloropropene	9.085	75	298765	26.64 ug/L	99
58) Toluene	9.332	91	751999	29.16 ug/L	98
59) 2-Nitropropane	9.532	41	230005	135.24 ug/L	96
60) 4-Methyl-2-pentanone	9.649	43	1024469	143.66 ug/L	99
61) trans-1,3-Dichloropropene	9.714	75	272789	28.81 ug/L	97
62) Tetrachloroethene	9.732	166	203550	25.92 ug/L	97
63) Ethyl methacrylate	9.820	69	196879	21.98 ug/L	99
64) 1,1,2-Trichloroethane	9.878	83	134007	28.08 ug/L	94
65) Dibromochloromethane	10.078	129	173088	27.05 ug/L	98
66) 1,3-Dichloropropane	10.160	76	277801	26.30 ug/L	96
67) 1,2-Dibromoethane	10.337	107	163615	27.48 ug/L	99
68) 2-hexanone	10.466	43	729286	155.80 ug/L	97
69) 1-Chlorohexane	10.772	91	264292	27.59 ug/L	97
70) Ethylbenzene	10.842	91	830851	28.73 ug/L	97
71) Chlorobenzene	10.842	112	464989	26.21 ug/L	93
72) 1,1,1,2-Tetrachloroethane	10.895	131	170328	24.76 ug/L	93
73) m,p-Xylene	10.977	91	1307047	53.37 ug/L	100
74) o-Xylene	11.418	91	711532	26.83 ug/L	98
75) Styrene	11.465	104	533707	26.96 ug/L	98
76) Bromoform	11.524	173	109520	24.40 ug/L	97
77) Isopropylbenzene	11.723	105	831416	26.91 ug/L	99
80) cis-1,4-Dichloro-2-butene	12.064	53	52432	22.81 ug/L	92
81) n-Propylbenzene	12.141	91	1039048	27.28 ug/L	96
82) Bromobenzene	12.164	156	215778	27.17 ug/L	96
83) 1,1,2,2-Tetrachloroethane	12.199	83	213400	25.63 ug/L	99
84) 1,3,5-Trimethylbenzene	12.323	105	711180	28.16 ug/L	98
85) 2-Chlorotoluene	12.329	91	699613	26.99 ug/L	98
86) trans-1,4-Dichloro-2-B...	12.381	53	61462	24.28 ug/L	92
87) 1,2,3-Trichloropropane	12.364	110	57914	26.94 ug/L	88
88) Cyclohexanone	12.428	55	44753	135.33 ug/L	85
89) 4-Chlorotoluene	12.493	91	661930	26.76 ug/L	98
91) tert-Butylbenzene	12.663	91	432085	26.25 ug/L	95

SGS ACCUTEST FA39742

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\010317\
Data File : J0981918.D
Acq On : 3 Jan 2017 11:15 am
Operator : darshnap
Sample : bs ma Inst : MSVOA6
Misc : MS35986,VJ5531,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 03 11:35:53 2017
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jan 03 09:58:33 2017
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
92) 1,2,4-Trimethylbenzene	12.734	105	718860	28.74	ug/L	96
93) Pentachloroethane	12.716	167	85530	17.45	ug/L	98
94) sec-Butylbenzene	12.846	105	952997	27.82	ug/L	94
95) 4-Isopropyltoluene	12.981	119	791051	29.30	ug/L	95
96) 1,3-Dichlorobenzene	13.116	146	413264	25.55	ug/L	93
97) 1,4-Dichlorobenzene	13.204	146	419625	25.00	ug/L	97
98) n-Butylbenzene	13.416	92	470237	28.55	ug/L	90
99) Benzyl Chloride	13.427	126	77192	22.64	ug/L #	52
100) 1,2-Dichlorobenzene	13.627	146	407553	25.02	ug/L	99
101) 1,2-Dibromo-3-Chloropr...	14.361	75	40948	24.85	ug/L	92
102) Hexachlorobutadiene	14.908	225	169284	24.65	ug/L	96
103) 1,2,4-Trichlorobenzene	14.955	180	303796	26.30	ug/L	98
104) Naphthalene	15.237	128	689880	29.54	ug/L	100
105) 1,2,3-Trichlorobenzene	15.407	180	281165	25.88	ug/L	97
107) Ethanol	4.273	45	39865m	584.24	ug/L	
108) acrolein	4.731	56	186748	149.19	ug/L	95
109) Tert Butyl Alcohol	5.354	59	195098	261.83	ug/L	93
110) tert Amyl alcohol	7.552	59	153020	258.29	ug/L	97
111) Isobutyl alcohol	7.428	42	114213	477.26	ug/L #	84
112) 1,4-Dioxane	8.650	88	32175	511.07	ug/L	91
113) 3,3-Dimethyl-1-butanol	10.413	57	880267	1431.49	ug/L	97

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

7.3.4

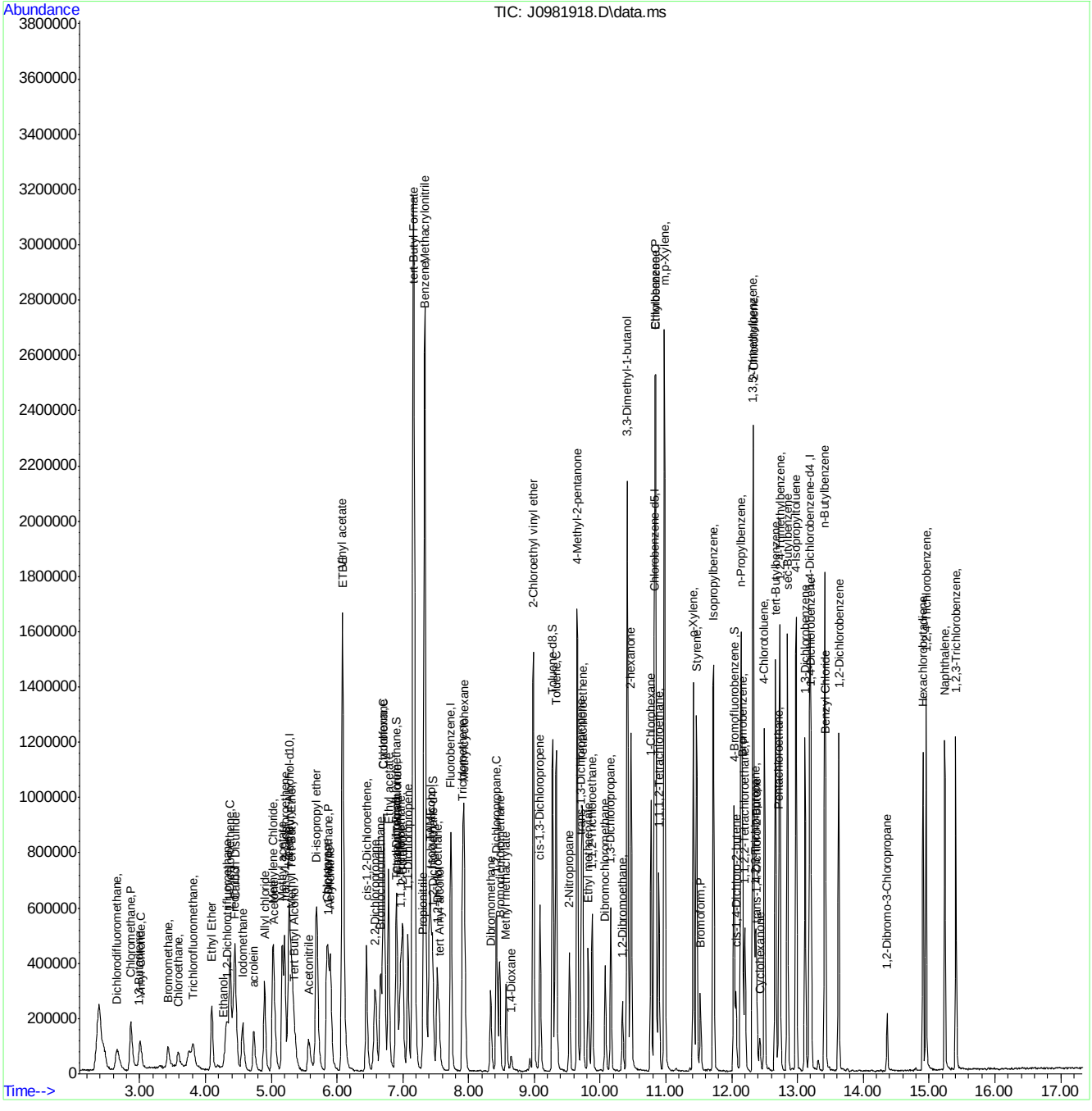
7

SGS ACCUTEST FA39742

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\010317\
Data File : J0981918.D
Acq On : 3 Jan 2017 11:15 am
Operator : darshnap
Sample : bs ma Inst : MSVOA6
Misc : MS35986,VJ5531,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 03 11:35:53 2017
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jan 03 09:58:33 2017
Response via : Initial Calibration



SGS ACCUTEST FA39742

Manual Integration Approval Summary

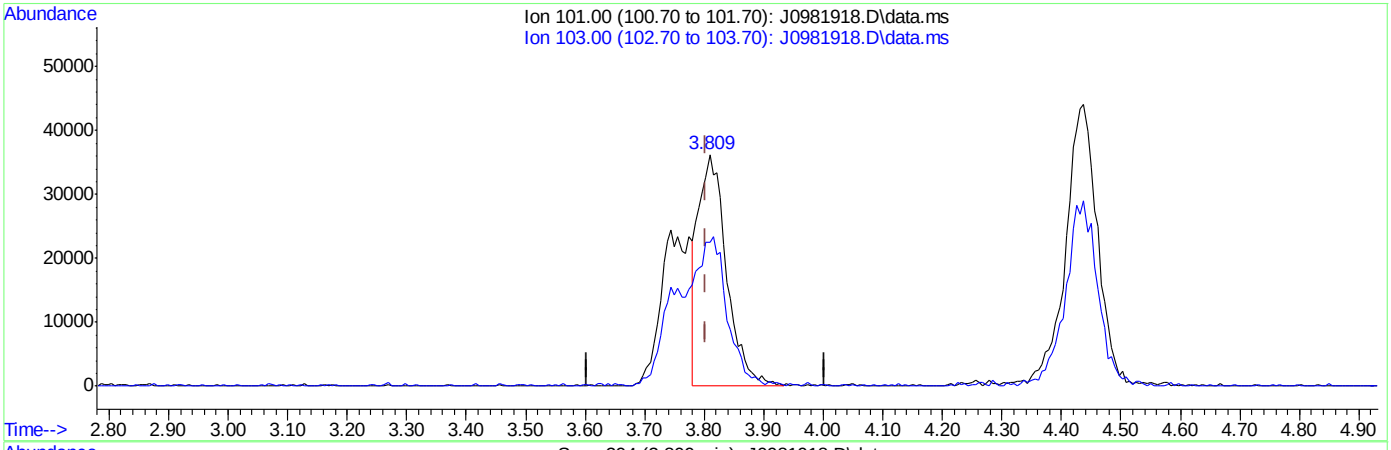
Sample Number:	VJ5531-BS	**Method:**	SW846 8260C
Lab FileID:	J0981918.D	**Analyst approved:**	01/04/17 10:37 Darshna Patel
Injection Time:	01/03/17 11:15	**Supervisor approved:**	01/04/17 11:21 Juan Garcia

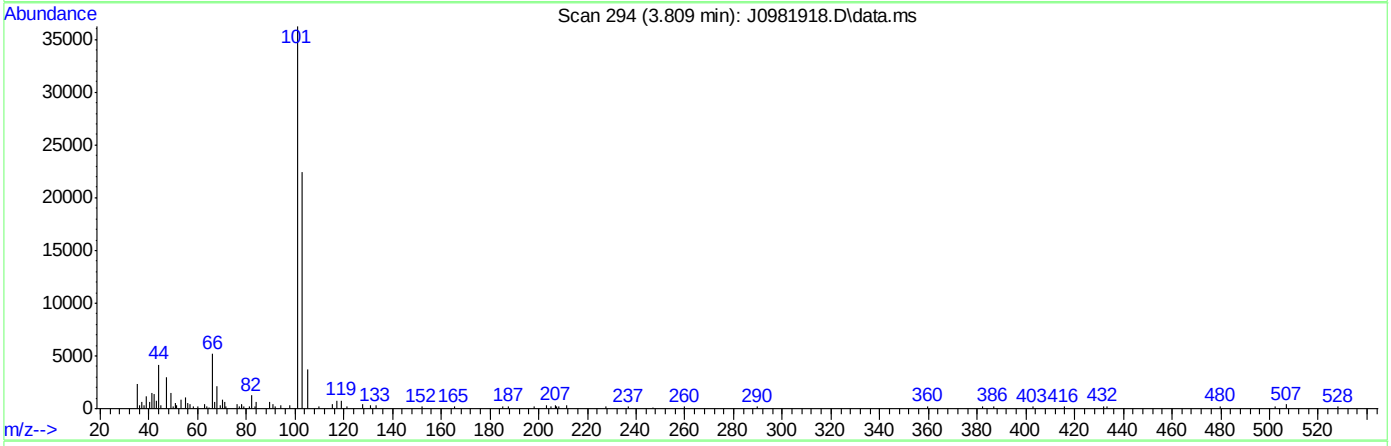
Parameter	CAS	Sig#	R.T. (min.)	Reason
Trichlorofluoromethane	75-69-4		3.81	Split peak
Ethyl Alcohol	64-17-5		4.27	Poor instrument integration
Carbon Tetrachloride	56-23-5		6.91	Overlapping peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\010317\
Data File : J0981918.D
Acq On : 3 Jan 2017 11:15 am
Operator : darshnap
Sample : bs Inst : MSVOA6
Misc : MS35465,VJ5530,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 03 11:35:26 2017
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jan 03 09:58:33 2017
Response via : Initial Calibration





TIC: J0981918.D\data.ms

(8) Trichlorofluoromethane ( )

3.809min (+0.006) 13.93ug/L

response 119759

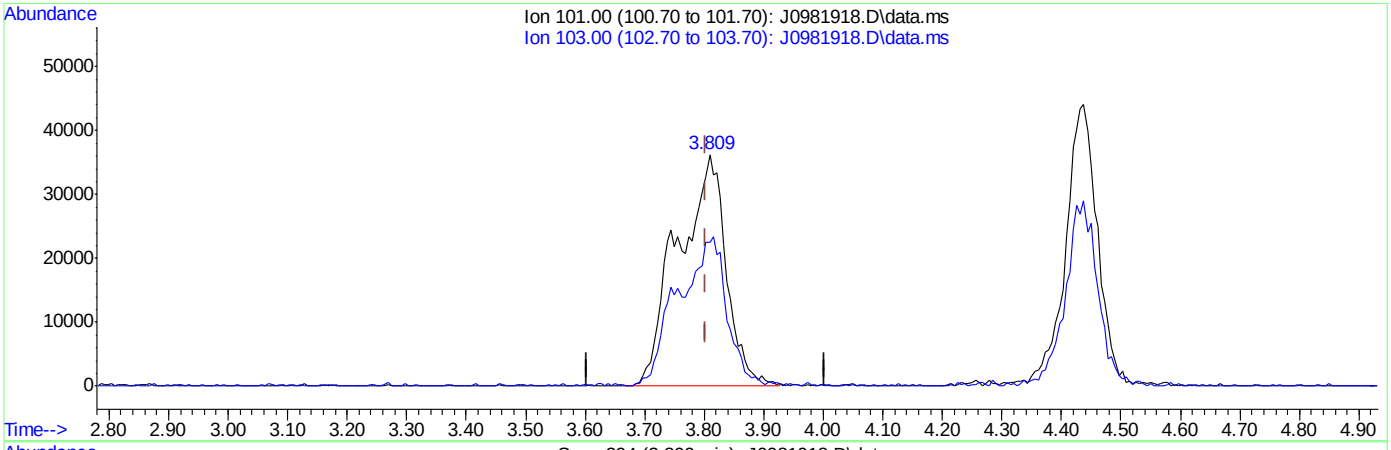
Ion	Exp%	Act%
101.00	100	100
103.00	55.20	61.51
0.00	0.00	0.00
0.00	0.00	0.00

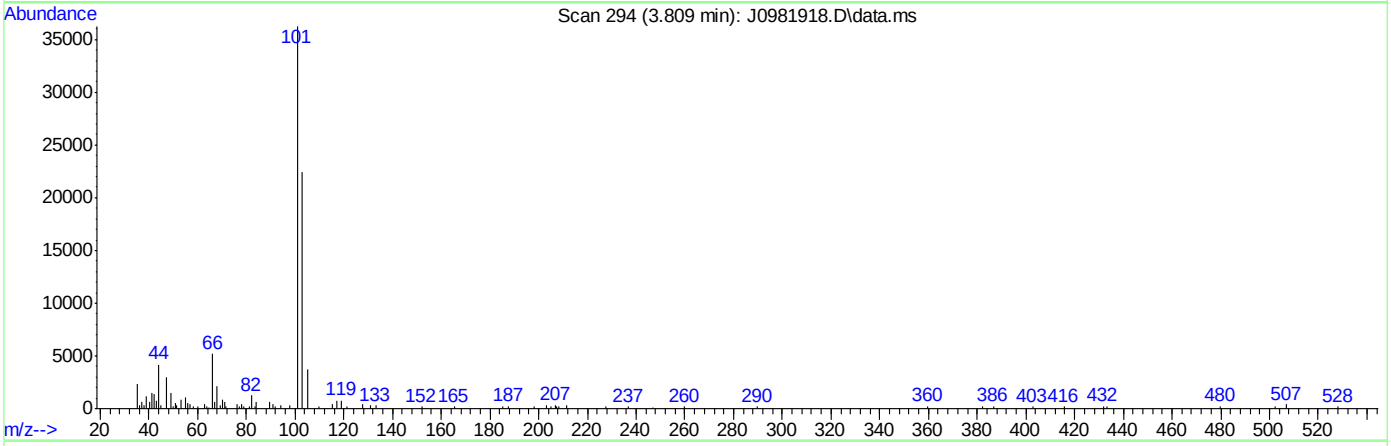
SGS ACCUTEST FA39742

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\010317\
Data File : J0981918.D
Acq On : 3 Jan 2017 11:15 am
Operator : darshnap
Sample : bs Inst : MSVOA6
Misc : MS35465,VJ5530,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 03 11:35:26 2017
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jan 03 09:58:33 2017
Response via : Initial Calibration





TIC: J0981918.D\data.ms

(8) Trichlorofluoromethane ( )

3.809min (+0.006) 23.72ug/L m

response 203880

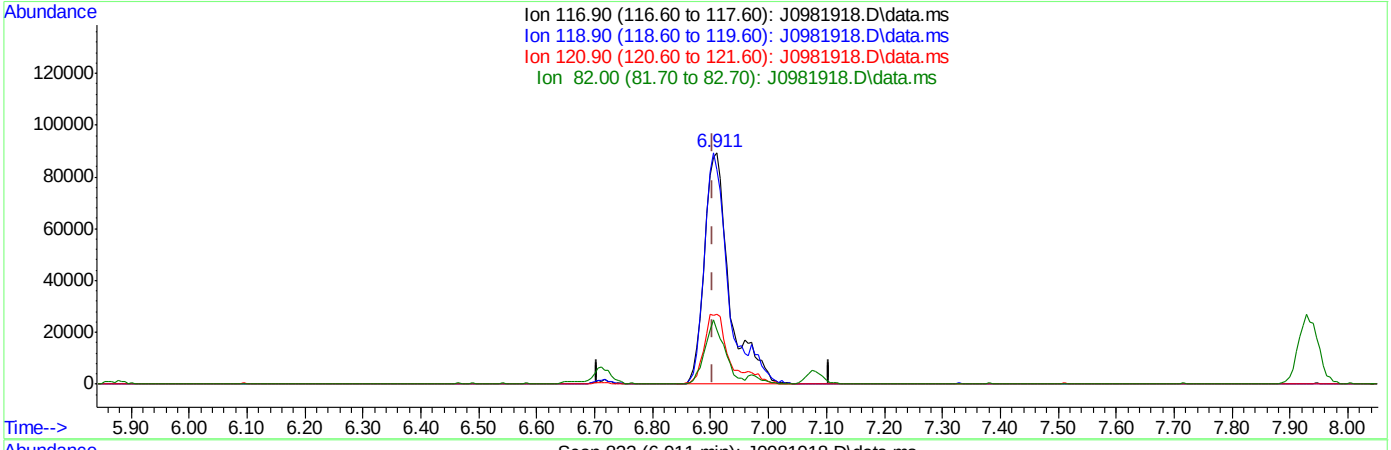
Ion	Exp%	Act%
101.00	100	100
103.00	55.20	62.02
0.00	0.00	0.00
0.00	0.00	0.00

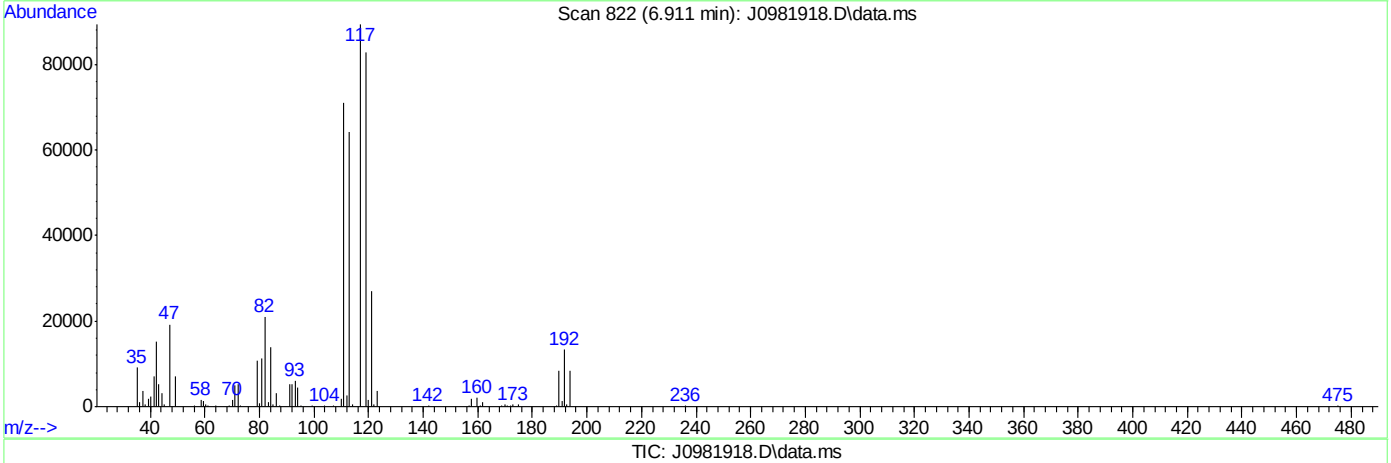
SGS ACCUTEST FA39742

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\010317\
Data File : J0981918.D
Acq On : 3 Jan 2017 11:15 am
Operator : darshnap
Sample : bs Inst : MSVOA6
Misc : MS35465,VJ5530,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 03 11:35:26 2017
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jan 03 09:58:33 2017
Response via : Initial Calibration





TIC: J0981918.D\data.ms

(37) Carbon Tetrachloride ( )

6.911min (+0.006) 30.78ug/L

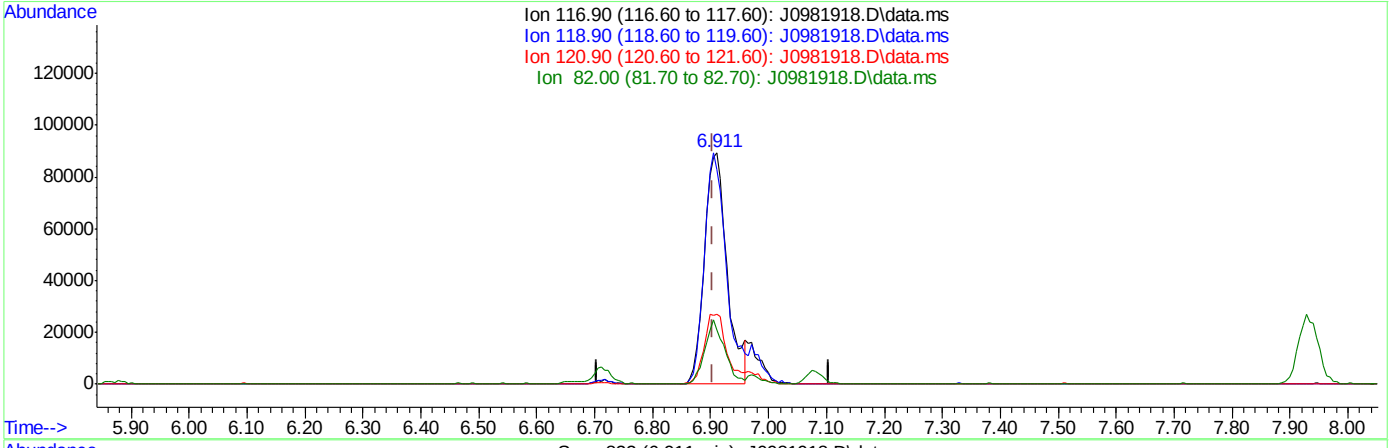
response 270707

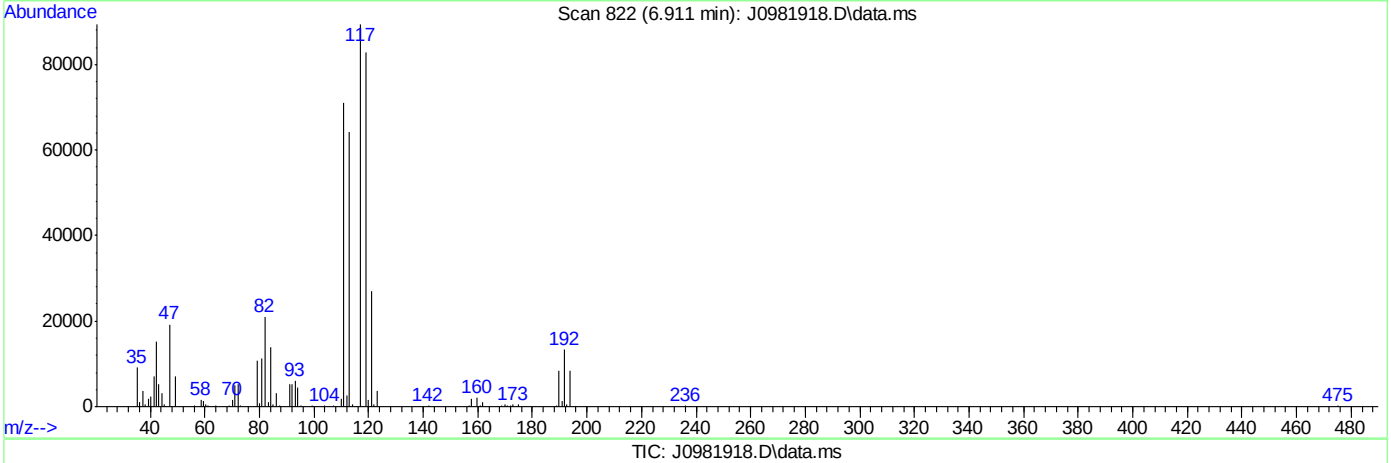
Ion	Exp%	Act%
116.90	100	100
118.90	91.30	92.54
120.90	30.80	30.33
82.00	23.30	23.42

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\010317\
Data File : J0981918.D
Acq On : 3 Jan 2017 11:15 am
Operator : darshnap
Sample : bs Inst : MSVOA6
Misc : MS35465,VJ5530,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 03 11:35:26 2017
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jan 03 09:58:33 2017
Response via : Initial Calibration





TIC: J0981918.D\data.ms

(37) Carbon Tetrachloride ( )

6.911min (+0.006) 27.68ug/L m

response 243423

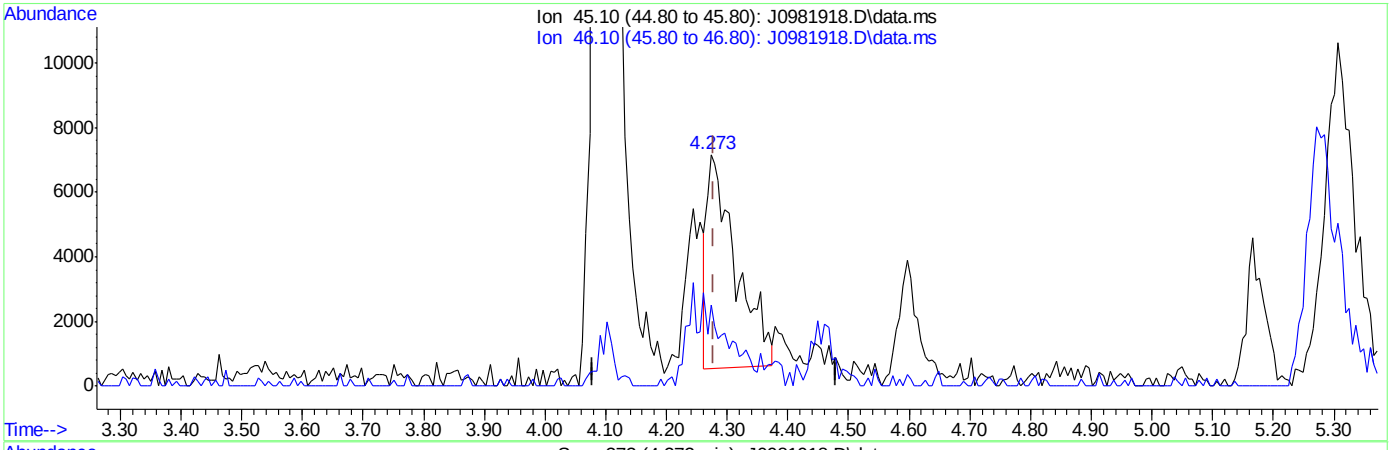
Ion	Exp%	Act%
116.90	100	100
118.90	91.30	92.54
120.90	30.80	30.33
82.00	23.30	23.42

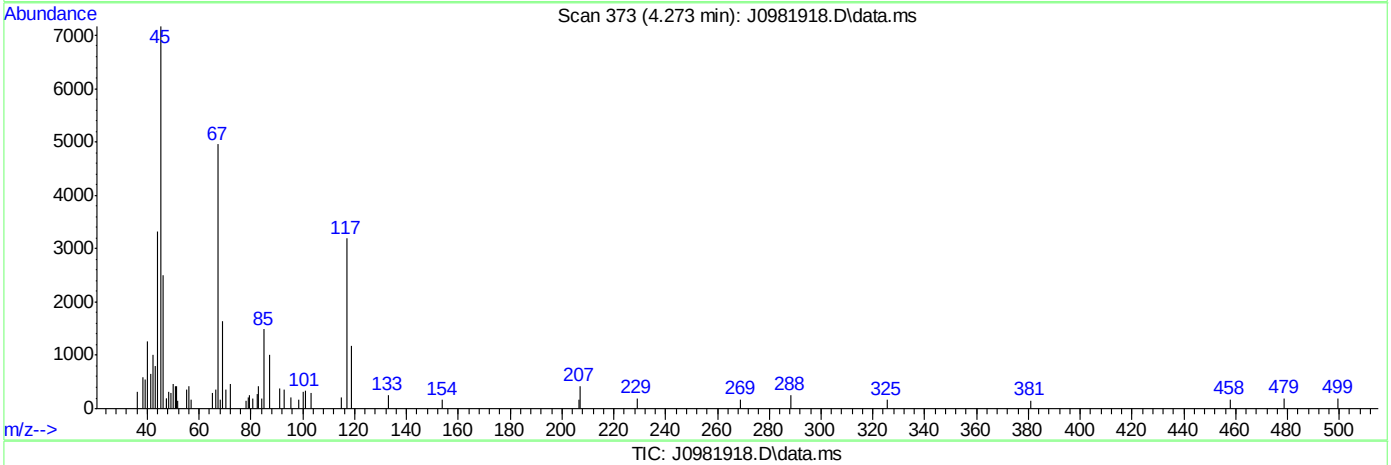
SGS ACCUTEST FA39742

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\010317\
Data File : J0981918.D
Acq On : 3 Jan 2017 11:15 am
Operator : darshnap
Sample : bs Inst : MSVOA6
Misc : MS35465,VJ5530,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 03 11:35:26 2017
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jan 03 09:58:33 2017
Response via : Initial Calibration





TIC: J0981918.D\data.ms

(107) Ethanol

4.273min (-0.006) 317.67ug/L

response 21673

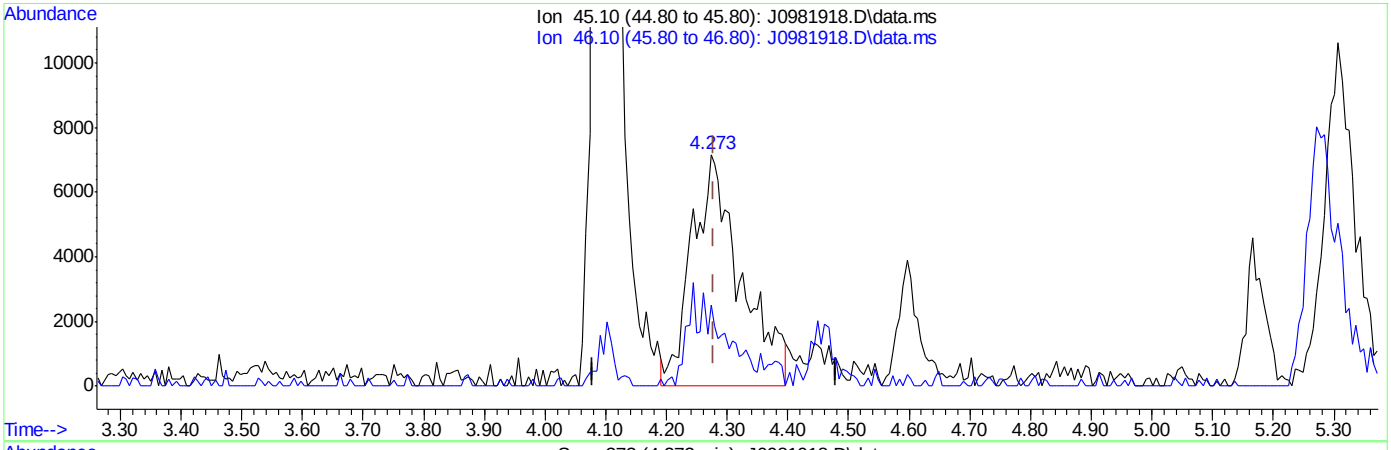
Ion	Exp%	Act%
45.10	100	100
46.10	41.60	30.77
0.00	0.00	0.00
0.00	0.00	0.00

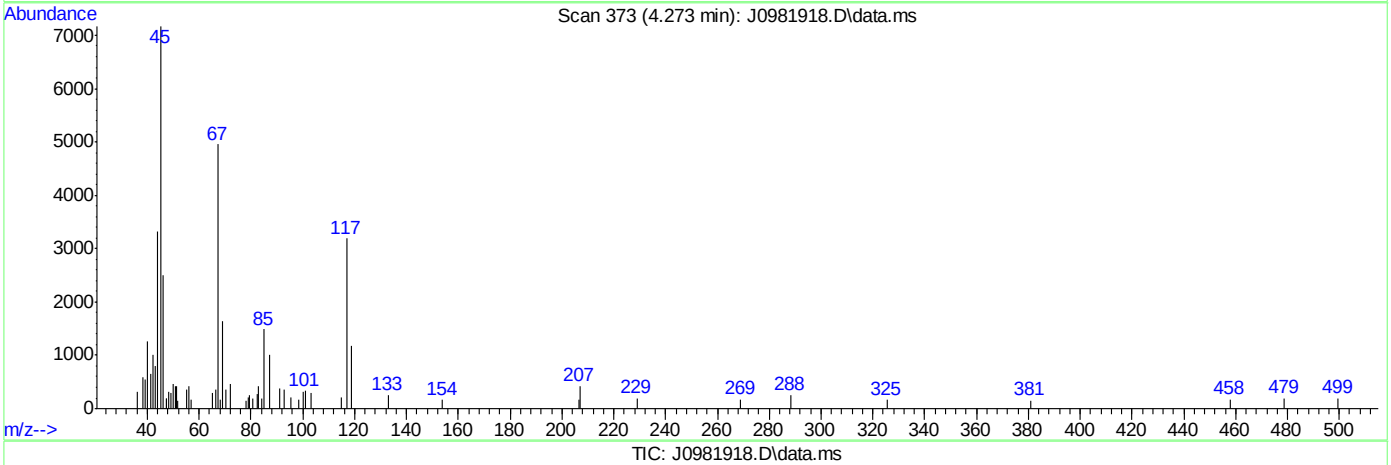
SGS ACCUTEST FA39742

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\010317\
Data File : J0981918.D
Acq On : 3 Jan 2017 11:15 am
Operator : darshnap
Sample : bs Inst : MSVOA6
Misc : MS35465,VJ5530,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 03 11:35:26 2017
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jan 03 09:58:33 2017
Response via : Initial Calibration





TIC: J0981918.D\data.ms

(107) Ethanol

4.273min (-0.006) 584.24ug/L m

response 39865

Ion	Exp%	Act%
45.10	100	100
46.10	41.60	34.81
0.00	0.00	0.00
0.00	0.00	0.00

SGS ACCUTEST FA39742

Manual Integrations APPROVED (compounds with "m" flag)
Melissa Mangual
01/05/17 11:16

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\010417\
Data File : J0981949.D
Acq On : 4 Jan 2017 10:45 am
Operator : darshnap
Sample : bs ma Inst : MSVOA6
Misc : MS35997,VJ5532,,,,,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jan 04 11:03:20 2017
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jan 03 08:23:52 2017
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.734	96	699585	50.00	ug/L	0.00
56) Chlorobenzene-d5	10.824	117	499595	50.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	13.186	152	259936	50.00	ug/L	0.00
106) Tert Butyl Alcohol-d10	5.266	65	90150	250.00	ug/L	-0.01
System Monitoring Compounds						
36) Dibromofluoromethane	6.900	113	163162	49.41	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 98.82%			
46) 1,2-Dichloroethane-d4	7.458	65	240076	54.05	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 108.10%			
57) Toluene-d8	9.279	98	658842	49.66	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 99.32%			
79) 4-Bromofluorobenzene	12.035	95	281124	54.22	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 108.44%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.663	85	187132	24.59	ug/L	97
3) Chloromethane	2.857	50	242924	22.04	ug/L	88
4) Vinyl Chloride	3.010	62	165479	24.72	ug/L	97
5) 1,3-Butadiene	3.004	54	16674	3.94	ug/L #	48
6) Bromomethane	3.439	94	80840	22.05	ug/L	87
7) Chloroethane	3.586	64	73171	28.34	ug/L	89
8) Trichlorofluoromethane	3.815	101	212616m	26.13	ug/L	
9) Ethyl Ether	4.097	59	163531	27.55	ug/L	94
10) 1,2-Dichlorotrifluoroe...	4.326	67	200734	27.35	ug/L	94
11) 1,1-Dichloroethene	4.379	61	302944	29.68	ug/L	96
12) Freon 113	4.438	101	156739	25.24	ug/L	95
13) Carbon Disulfide	4.455	76	542580	25.46	ug/L	99
14) Iodomethane	4.561	142	252439	23.28	ug/L	95
15) Allyl chloride	4.902	41	328414	26.84	ug/L	95
16) Methylene Chloride	5.025	49	312312	28.64	ug/L	96
17) Acetone	5.043	58	101108	179.61	ug/L #	70
18) Methyl acetate	5.172	74	124883	140.94	ug/L	96
19) trans-1,2-Dichloroethene	5.207	61	290306	29.28	ug/L	95
20) Hexane	5.278	56	183496	28.69	ug/L #	84
21) Methyl Tert Butyl Ether	5.307	73	521779	26.50	ug/L	81
22) Acetonitrile	5.572	40	125374	264.80	ug/L #	83
23) Di-isopropyl ether	5.689	45	756933	28.62	ug/L	97
24) Chloroprene	5.848	53	298975	26.23	ug/L	96
25) 1,1-Dichloroethane	5.871	63	354842	29.91	ug/L	92
26) Acrylonitrile	5.901	53	337974	136.41	ug/L	97
27) ETBE	6.089	59	631556	25.88	ug/L	97
28) Vinyl acetate	6.083	43	2141447	135.10	ug/L	100
29) cis-1,2-Dichloroethene	6.453	96	191121	26.09	ug/L	97
30) 2,2-Dichloropropane	6.582	77	285099	27.97	ug/L	100
31) Bromochloromethane	6.659	128	83070	24.73	ug/L #	84
32) Cyclohexane	6.712	56	361339	27.14	ug/L	97
33) Chloroform	6.712	83	318444	26.46	ug/L	95
34) Ethyl acetate	6.782	43	856410	139.84	ug/L	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\010417\
Data File : J0981949.D
Acq On : 4 Jan 2017 10:45 am
Operator : darshnap
Sample : bs ma Inst : MSVOA6
Misc : MS35997,VJ5532,,,,,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jan 04 11:03:20 2017
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jan 03 08:23:52 2017
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
35) Tetrahydrofuran	6.894	42	57500	28.48 ug/L	90
37) Carbon Tetrachloride	6.911	117	222869m	26.77 ug/L	
38) 1,1,1-Trichloroethane	6.970	97	270808	25.72 ug/L	99
39) 2-Butanone	6.999	43	491931	167.56 ug/L	95
40) 1,1-Dichloropropene	7.082	75	238765	28.05 ug/L	96
41) tert-Butyl Formate	7.164	59	1810157	258.83 ug/L	95
42) Propionitrile	7.305	54	257158	281.06 ug/L	89
43) Methacrylonitrile	7.334	41	1143538	288.39 ug/L	98
44) Benzene	7.334	78	668711	29.95 ug/L	95
45) TAME	7.411	73	535896	26.92 ug/L	95
47) 1,2-Dichloroethane	7.522	62	262924	28.49 ug/L	98
48) Trichloroethene	7.910	95	180811	27.69 ug/L	97
49) Methylcyclohexane	7.934	83	321556	27.51 ug/L	92
50) Dibromomethane	8.339	93	109213	27.61 ug/L	94
51) 1,2-Dichloropropane	8.421	63	195624	28.18 ug/L	97
52) Bromodichloromethane	8.474	83	227982	26.33 ug/L	96
53) Methyl methacrylate	8.568	41	181047	28.00 ug/L	96
54) 2-Chloroethyl vinyl ether	8.985	63	574230	139.37 ug/L	99
55) cis-1,3-Dichloropropene	9.085	75	291465	27.45 ug/L	96
58) Toluene	9.332	91	709517	28.66 ug/L	99
59) 2-Nitropropane	9.532	41	222870	136.52 ug/L	99
60) 4-Methyl-2-pentanone	9.649	43	959809	140.01 ug/L	96
61) trans-1,3-Dichloropropene	9.714	75	264185	29.07 ug/L	93
62) Tetrachloroethene	9.737	166	173348	22.99 ug/L	97
63) Ethyl methacrylate	9.820	69	214889	24.99 ug/L	94
64) 1,1,2-Trichloroethane	9.878	83	133331	29.11 ug/L	92
65) Dibromochloromethane	10.078	129	157745	25.68 ug/L	93
66) 1,3-Dichloropropane	10.160	76	274228	27.04 ug/L	94
67) 1,2-Dibromoethane	10.337	107	155614	27.23 ug/L	96
68) 2-hexanone	10.466	43	706447	157.22 ug/L	96
69) 1-Chlorohexane	10.777	91	254827	27.71 ug/L	98
70) Ethylbenzene	10.842	91	800256	28.82 ug/L	99
71) Chlorobenzene	10.842	112	438744	25.76 ug/L	93
72) 1,1,1,2-Tetrachloroethane	10.889	131	156817	24.98 ug/L	97
73) m,p-Xylene	10.977	91	1271203	54.13 ug/L	99
74) o-Xylene	11.418	91	691092	27.15 ug/L	97
75) Styrene	11.465	104	504033	28.66 ug/L	96
76) Bromoform	11.529	173	96820	22.47 ug/L	98
77) Isopropylbenzene	11.723	105	812336	27.39 ug/L	96
80) cis-1,4-Dichloro-2-butene	12.064	53	50628	24.31 ug/L	91
81) n-Propylbenzene	12.141	91	988322	28.64 ug/L	95
82) Bromobenzene	12.164	156	200226	27.84 ug/L	99
83) 1,1,2,2-Tetrachloroethane	12.199	83	202882	26.90 ug/L	98
84) 1,3,5-Trimethylbenzene	12.323	105	677360	29.61 ug/L	99
85) 2-Chlorotoluene	12.329	91	671237	28.59 ug/L	97
86) trans-1,4-Dichloro-2-B...	12.381	53	54987	23.98 ug/L	94
87) 1,2,3-Trichloropropane	12.364	110	57884	29.73 ug/L	90
88) Cyclohexanone	12.423	55	47850	160.16 ug/L	90
89) 4-Chlorotoluene	12.499	91	633555	28.28 ug/L	99
90) a-Methyl Styrene	12.663	118	7198	0.50 ug/L #	1

SGS ACCUTEST FA39742

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\010417\
Data File : J0981949.D
Acq On : 4 Jan 2017 10:45 am
Operator : darshnap
Sample : bs ma Inst : MSVOA6
Misc : MS35997,VJ5532,,,,,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jan 04 11:03:20 2017
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jan 03 08:23:52 2017
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
91)	tert-Butylbenzene	12.663	91	418846	28.09	ug/L		93
92)	1,2,4-Trimethylbenzene	12.734	105	679269	29.98	ug/L		95
93)	Pentachloroethane	12.716	167	100147	22.56	ug/L		96
94)	sec-Butylbenzene	12.846	105	913307	29.43	ug/L		96
95)	4-Isopropyltoluene	12.981	119	751331	30.72	ug/L		94
96)	1,3-Dichlorobenzene	13.116	146	391066	26.69	ug/L		97
97)	1,4-Dichlorobenzene	13.198	146	386424	25.41	ug/L		96
98)	n-Butylbenzene	13.410	92	455110	30.50	ug/L		99
99)	Benzyl Chloride	13.427	126	70468	22.82	ug/L	#	45
100)	1,2-Dichlorobenzene	13.627	146	379462	25.72	ug/L		97
101)	1,2-Dibromo-3-Chloropr...	14.362	75	39740	26.62	ug/L		80
102)	Hexachlorobutadiene	14.908	225	147062	23.64	ug/L		98
103)	1,2,4-Trichlorobenzene	14.955	180	271644	25.96	ug/L		96
104)	Naphthalene	15.237	128	633126	31.27	ug/L		97
105)	1,2,3-Trichlorobenzene	15.407	180	252199	25.97	ug/L		96
107)	Ethanol	4.250	45	41922m	613.66	ug/L		
108)	acrolein	4.737	56	188211	150.18	ug/L		92
109)	Tert Butyl Alcohol	5.348	59	185158	242.40	ug/L		81
110)	tert Amyl alcohol	7.552	59	140358	236.65	ug/L		98
111)	Isobutyl alcohol	7.428	42	123434	515.19	ug/L	#	75
112)	1,4-Dioxane	8.650	88	30809	488.81	ug/L		90
113)	3,3-Dimethyl-1-butanol	10.413	57	746173	1212.01	ug/L		97

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

7.3.5

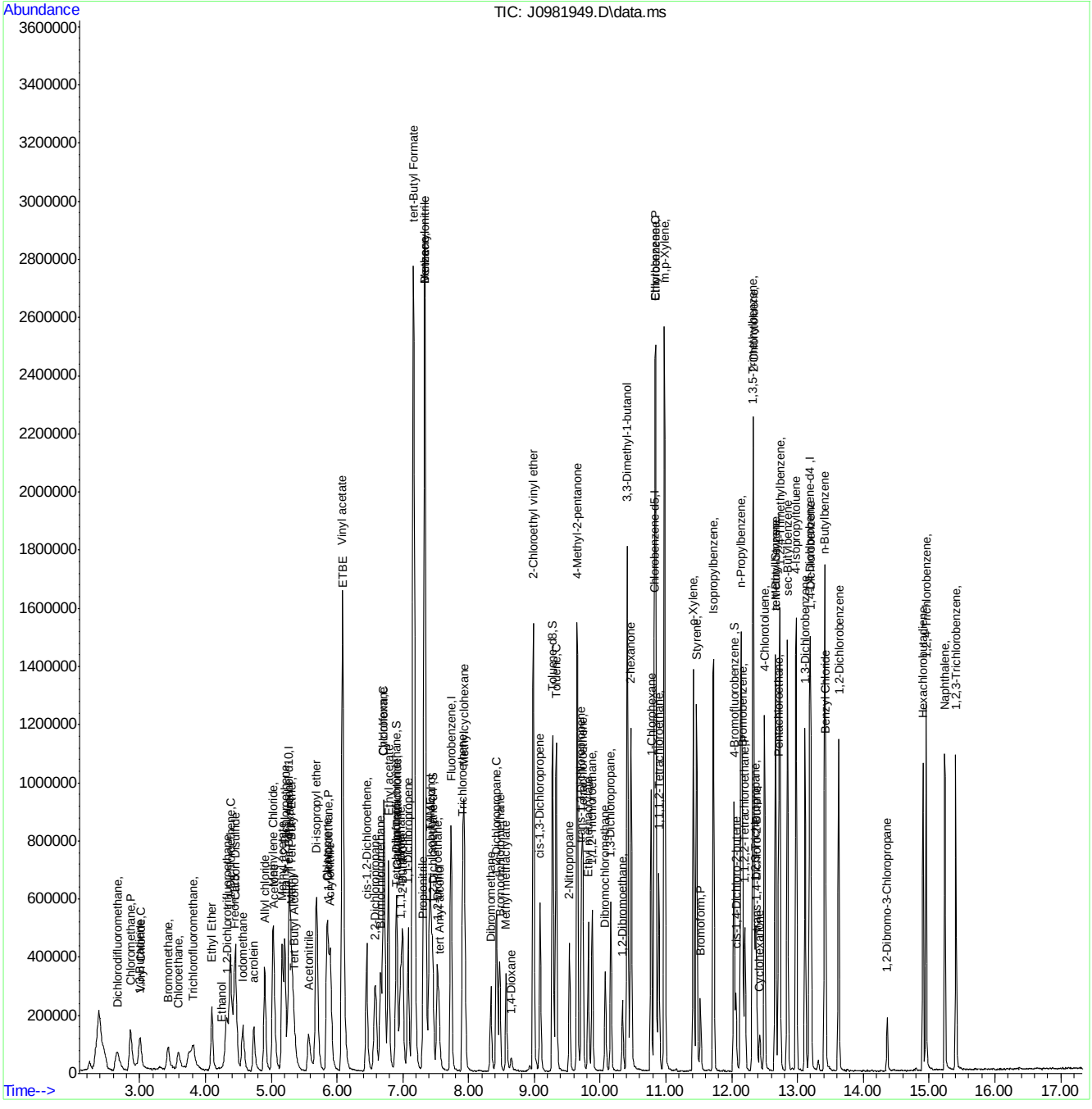
7

SGS ACCUTEST FA39742

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\010417\
Data File : J0981949.D
Acq On : 4 Jan 2017 10:45 am
Operator : darshnap
Sample : bs ma Inst : MSVOA6
Misc : MS35997,VJ5532,,,,,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jan 04 11:03:20 2017
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jan 03 08:23:52 2017
Response via : Initial Calibration



SGS ACCUTEST FA39742

Manual Integration Approval Summary

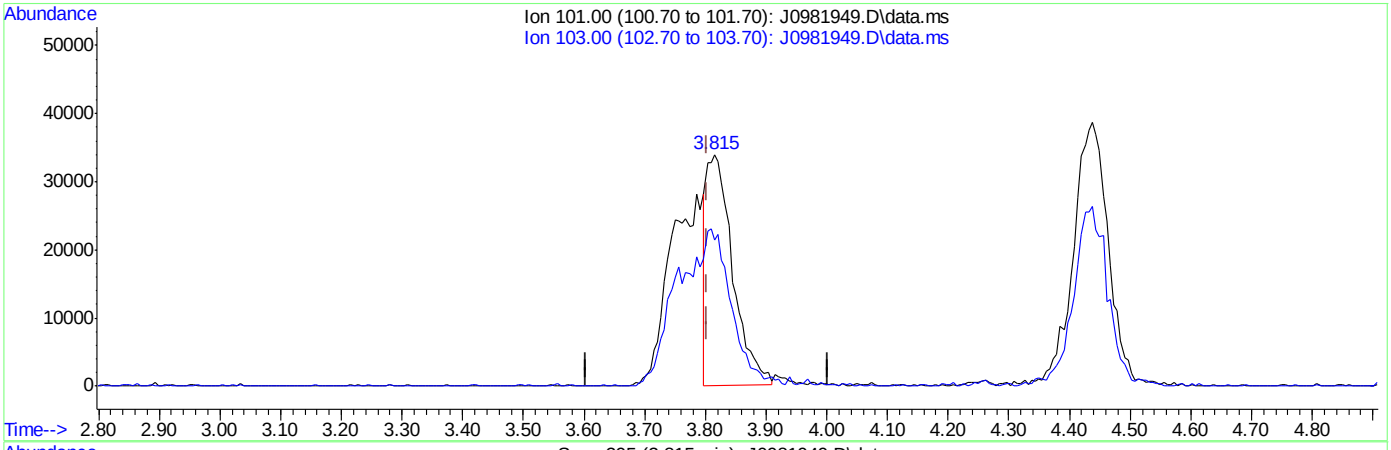
Sample Number:	VJ5532-BS	**Method:**	SW846 8260C
Lab FileID:	J0981949.D	**Analyst approved:**	01/05/17 11:13 Darshna Patel
Injection Time:	01/04/17 10:45	**Supervisor approved:**	01/05/17 11:16 Melissa Mangual

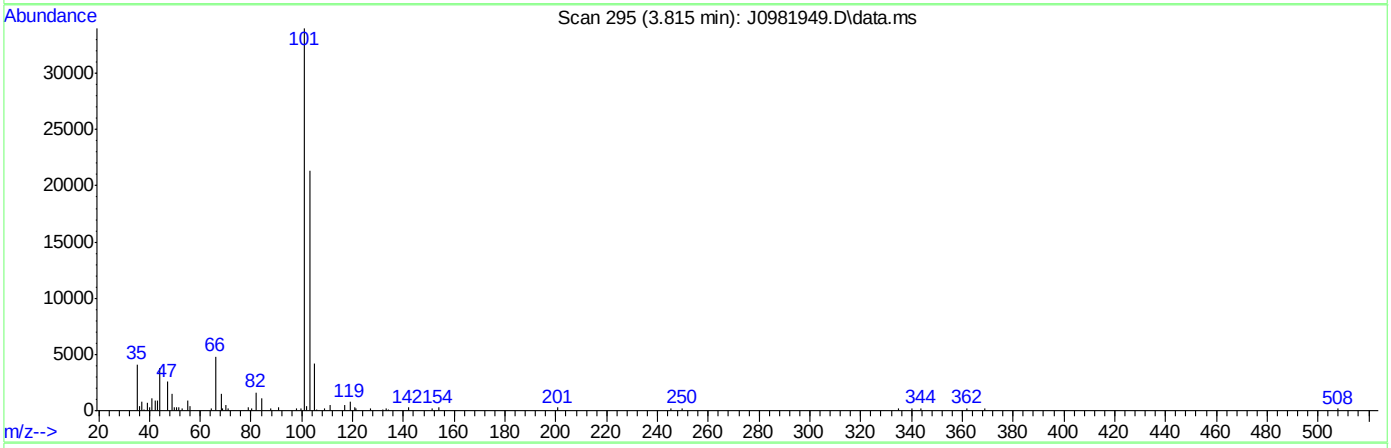
Parameter	CAS	Sig#	R.T. (min.)	Reason
Trichlorofluoromethane	75-69-4		3.81	Split peak
Ethyl Alcohol	64-17-5		4.25	Poor instrument integration
Carbon Tetrachloride	56-23-5		6.91	Overlapping peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\010417\
Data File : J0981949.D
Acq On : 4 Jan 2017 10:45 am
Operator : darshnap
Sample : bs Inst : MSVOA6
Misc : MS35986,VJ5532,,,,,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jan 04 11:02:54 2017
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jan 03 08:23:52 2017
Response via : Initial Calibration





(8) Trichlorofluoromethane ( )

3.815min (+0.012) 12.32ug/L

response 100246

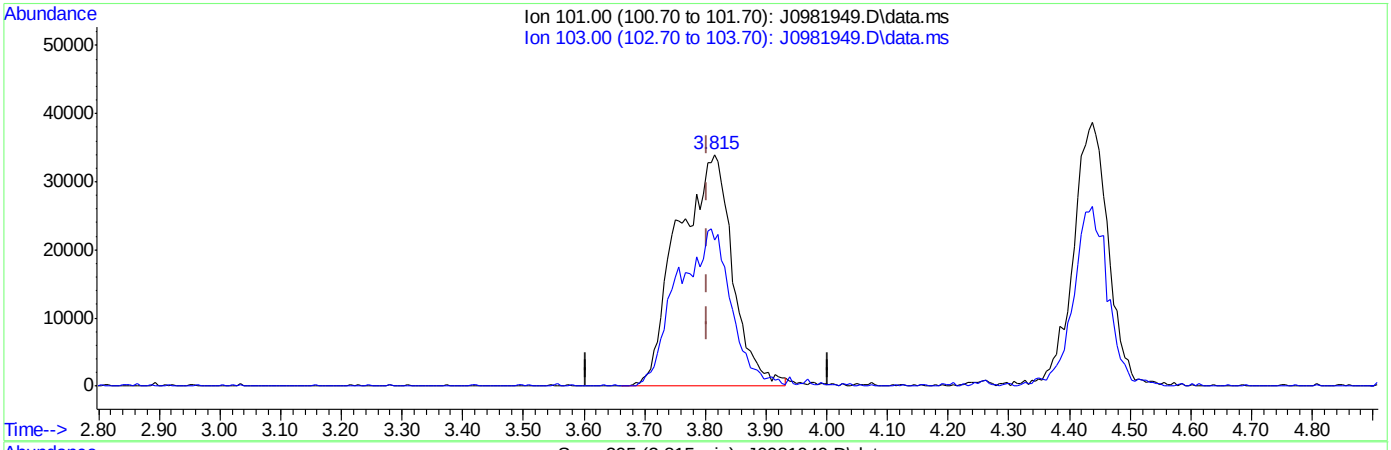
Ion	Exp%	Act%
101.00	100	100
103.00	55.20	60.18
0.00	0.00	0.00
0.00	0.00	0.00

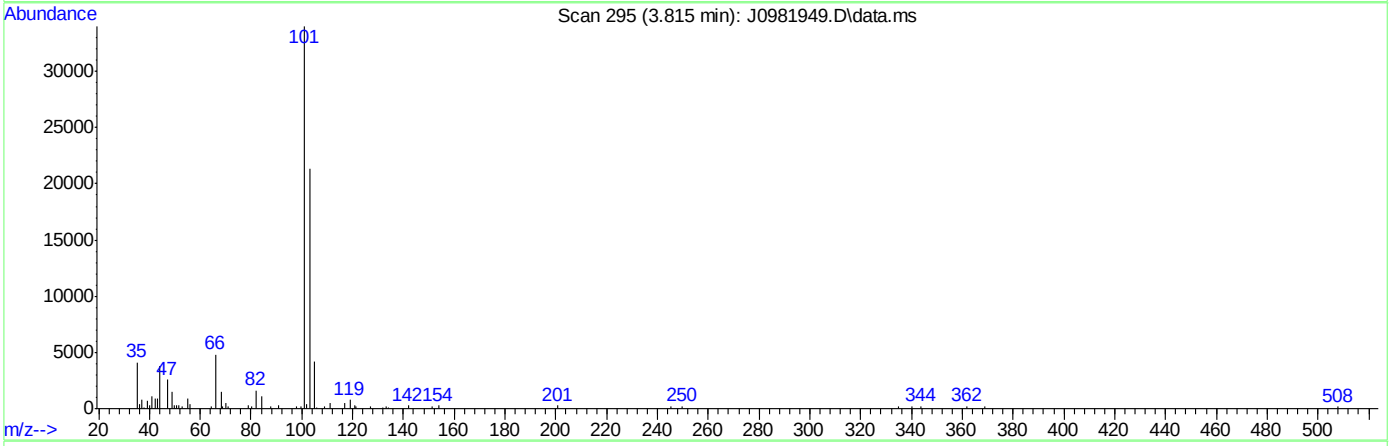
SGS ACCUTEST FA39742

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\010417\
Data File : J0981949.D
Acq On : 4 Jan 2017 10:45 am
Operator : darshnap
Sample : bs Inst : MSVOA6
Misc : MS35986,VJ5532,,,,,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jan 04 11:02:54 2017
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jan 03 08:23:52 2017
Response via : Initial Calibration





(8) Trichlorofluoromethane ( )

3.815min (+0.012) 26.13ug/L m

response 212616

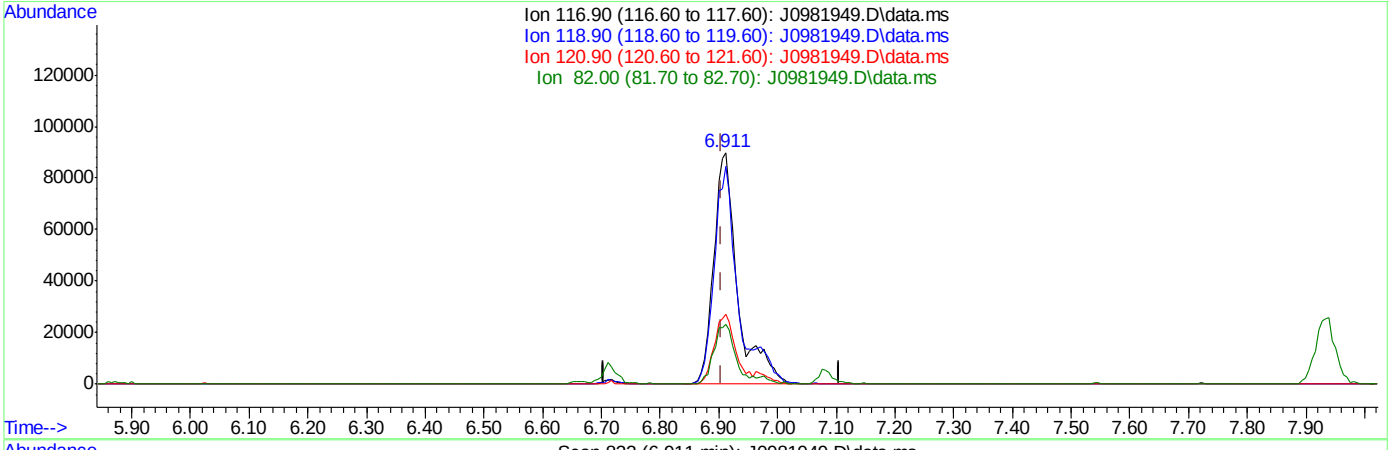
Ion	Exp%	Act%
101.00	100	100
103.00	55.20	62.85
0.00	0.00	0.00
0.00	0.00	0.00

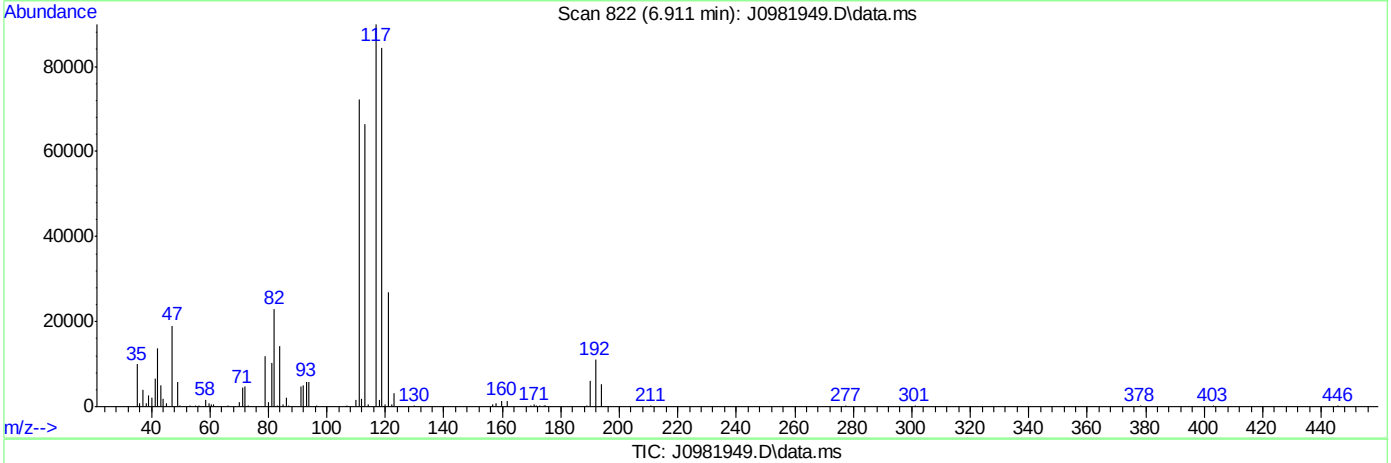
SGS ACCUTEST FA39742

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\010417\
Data File : J0981949.D
Acq On : 4 Jan 2017 10:45 am
Operator : darshnap
Sample : bs Inst : MSVOA6
Misc : MS35986,VJ5532,,,,,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jan 04 11:02:54 2017
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jan 03 08:23:52 2017
Response via : Initial Calibration





TIC: J0981949.D\data.ms

(37) Carbon Tetrachloride ( )

6.911min (+0.006) 30.42ug/L

response 253251

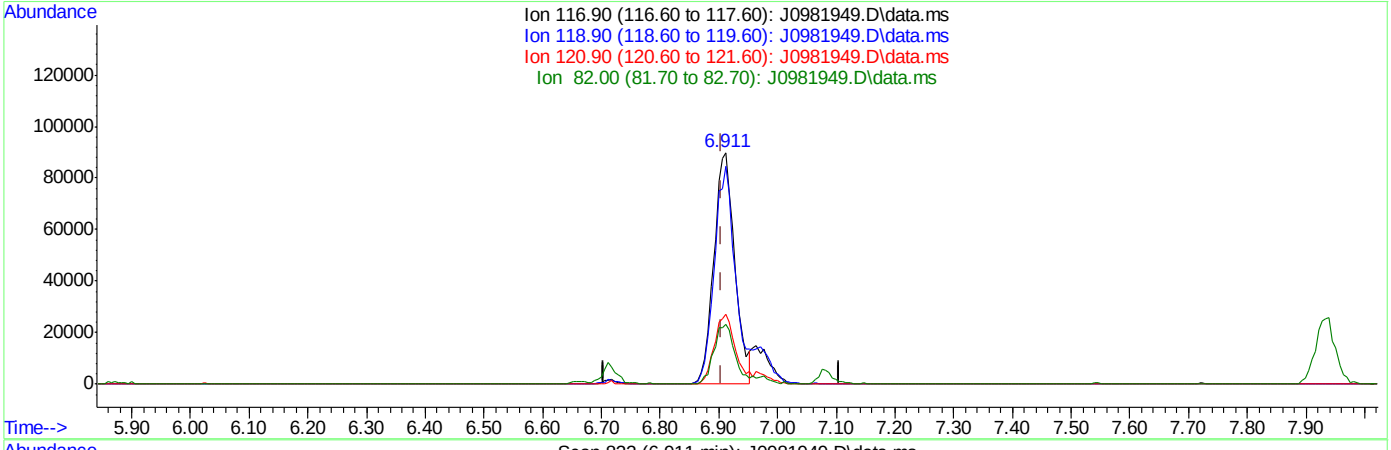
Ion	Exp%	Act%
116.90	100	100
118.90	91.30	93.98
120.90	30.80	30.02
82.00	23.30	25.65

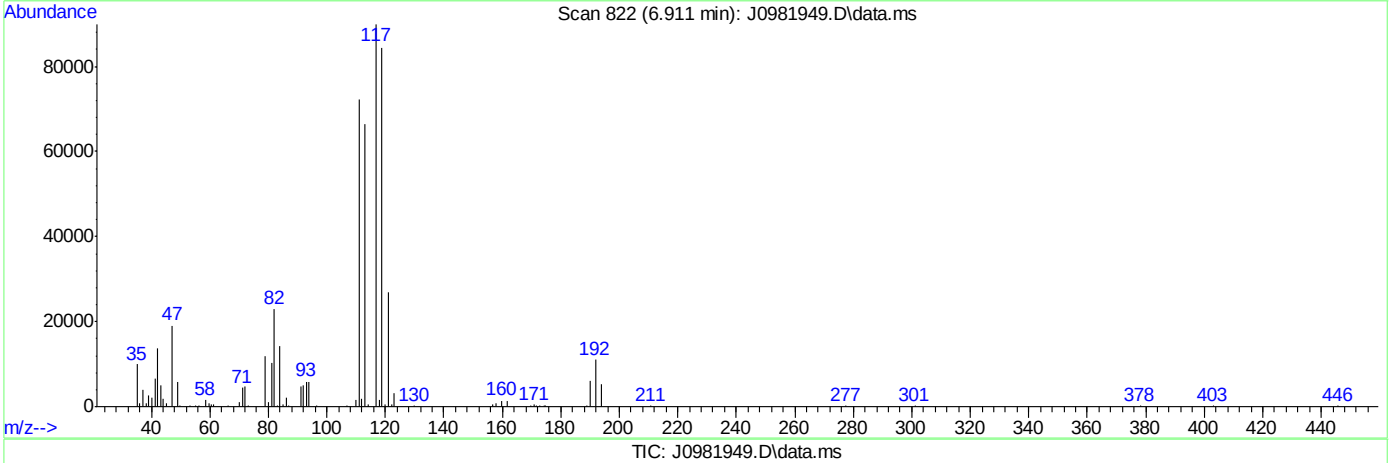
SGS ACCUTEST FA39742

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\010417\
Data File : J0981949.D
Acq On : 4 Jan 2017 10:45 am
Operator : darshnap
Sample : bs Inst : MSVOA6
Misc : MS35986,VJ5532,,,,,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jan 04 11:02:54 2017
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jan 03 08:23:52 2017
Response via : Initial Calibration





TIC: J0981949.D\data.ms

(37) Carbon Tetrachloride ( )

6.911min (+0.006) 26.77ug/L m

response 222869

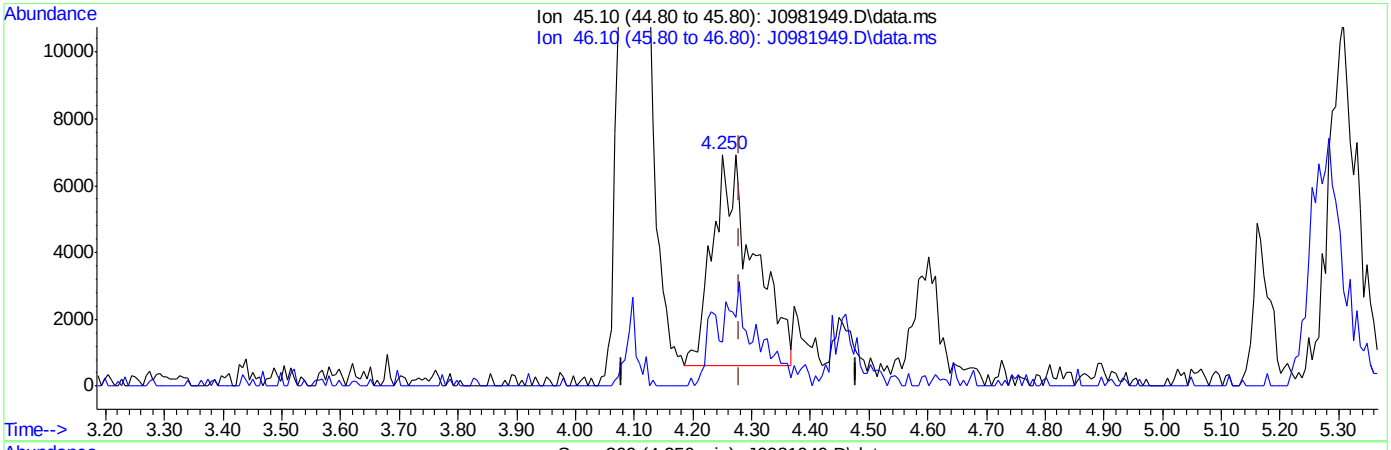
Ion	Exp%	Act%
116.90	100	100
118.90	91.30	93.98
120.90	30.80	30.02
82.00	23.30	25.65

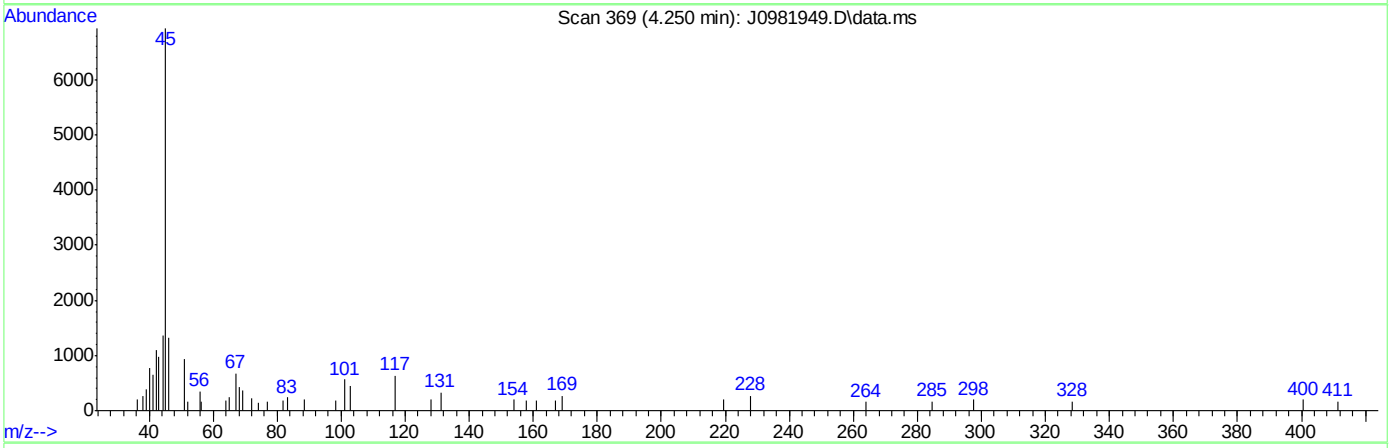
SGS ACCUTEST FA39742

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\010417\
Data File : J0981949.D
Acq On : 4 Jan 2017 10:45 am
Operator : darshnap
Sample : bs Inst : MSVOA6
Misc : MS35986,VJ5532,,,,,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jan 04 11:02:54 2017
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jan 03 08:23:52 2017
Response via : Initial Calibration





(107) Ethanol

4.250min (-0.029) 454.79ug/L

response 31066

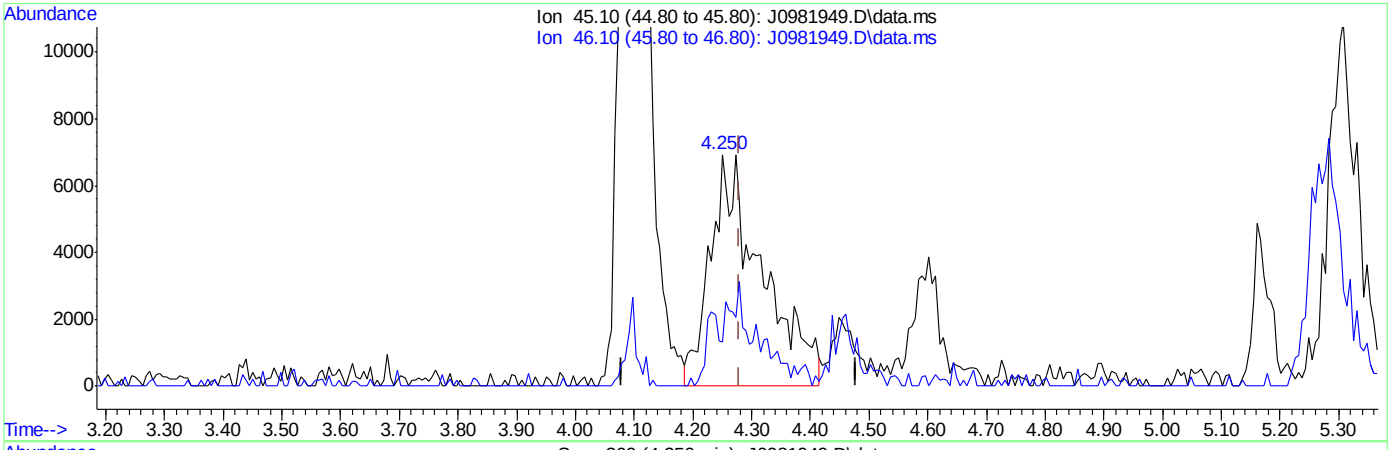
Ion	Exp%	Act%
45.10	100	100
46.10	41.60	20.79#
0.00	0.00	0.00
0.00	0.00	0.00

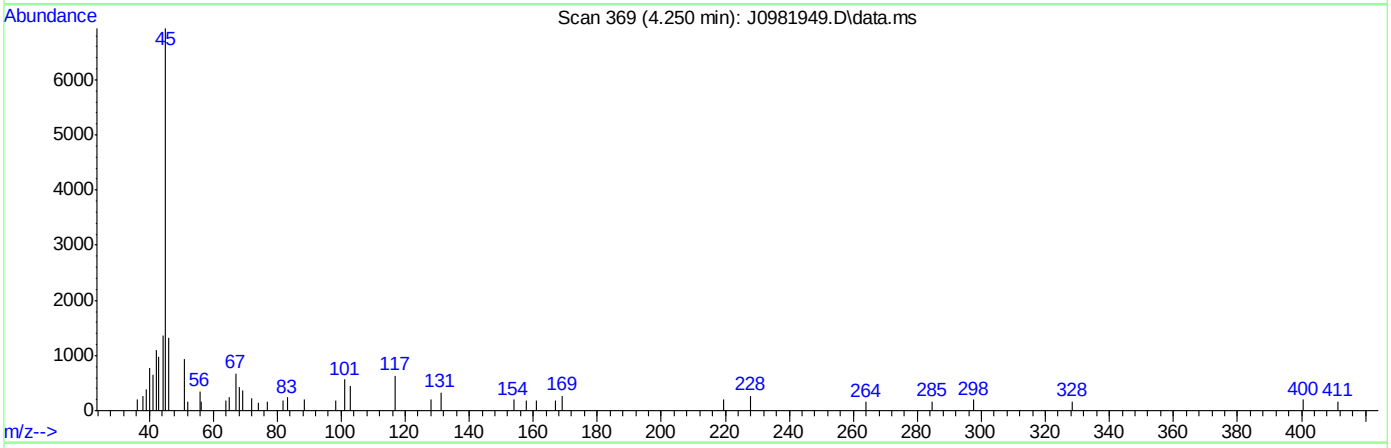
SGS ACCUTEST FA39742

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\010417\
Data File : J0981949.D
Acq On : 4 Jan 2017 10:45 am
Operator : darshnap
Sample : bs Inst : MSVOA6
Misc : MS35986,VJ5532,,,,,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jan 04 11:02:54 2017
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jan 03 08:23:52 2017
Response via : Initial Calibration





(107) Ethanol

4.250min (-0.029) 613.66ug/L m

response 41922

Ion	Exp%	Act%
45.10	100	100
46.10	41.60	18.96#
0.00	0.00	0.00
0.00	0.00	0.00

SGS ACCUTEST FA39742

Manual Integrations APPROVED (compounds with "m" flag)
Juan Garcia
01/06/17 15:07

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\123016\
Data File : I44676.D
Acq On : 30 Dec 2016 8:31 pm
Operator : WILFREDO
Sample : FA39742-16MS MA Inst : MSVOA16
Misc : MS35976,VI1230,,,,,
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Dec 31 11:31:59 2016
Quant Method : C:\msdchem\2\METHODS\I-DEC22.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Dec 23 09:02:35 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.116	96	2001847	50.00	ug/L	0.00
56) Chlorobenzene-d5	10.232	117	1378089	50.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	12.591	152	670746	50.00	ug/L	0.00
106) Tert Butyl Alcohol-d10	4.690	65	204247	250.00	ug/L	0.00
System Monitoring Compounds						
36) Dibromofluoromethane	6.275	113	520036	51.46	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 102.92%			
46) 1,2-Dichloroethane-d4	6.830	65	723573	50.70	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 101.40%			
57) Toluene-d8	8.677	98	1902041	50.48	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 100.96%			
79) 4-Bromofluorobenzene	11.445	174	494970	50.67	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 101.34%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.264	85	283894	21.29	ug/L	98
3) Chloromethane	2.477	50	427052	21.24	ug/L	99
5) Vinyl Chloride	2.599	62	349093	22.76	ug/L	100
6) Bromomethane	2.977	94	95971	20.51	ug/L	98
7) Chloroethane	3.135	64	136819	22.51	ug/L	99
8) Trichlorofluoromethane	3.288	101	358498	24.38	ug/L	99
9) Ethyl Ether	3.587	59	267474	22.78	ug/L	97
10) 1,2-Dichlorotrifluoroe...	3.776	67	315463m	23.28	ug/L	
11) 1,1-Dichloroethene	3.818	61	480397	24.91	ug/L	97
12) Freon 113	3.891	101	226786	21.53	ug/L	99
13) Carbon Disulfide	3.879	76	682329	20.61	ug/L	98
14) Iodomethane	3.989	142	324344	21.78	ug/L	99
15) Allyl chloride	4.318	41	343740	19.51	ug/L	98
16) Methylene Chloride	4.428	49	482344	26.11	ug/L	97
17) Acetone	4.477	43	323163	107.06	ug/L	99
18) Methyl acetate	4.592	43	903574	114.01	ug/L	99
19) trans-1,2-Dichloroethene	4.611	61	465845	25.63	ug/L	99
20) Hexane	4.690	56	368896	26.01	ug/L #	89
21) Methyl Tert Butyl Ether	4.708	73	808123	29.13	ug/L	92
22) Acetonitrile	4.964	41	234819	244.57	ug/L	97
23) Di-isopropyl ether	5.086	45	1121284	25.85	ug/L	99
24) Chloroprene	5.226	53	401978	20.24	ug/L	97
25) 1,1-Dichloroethane	5.251	63	569279	26.59	ug/L	98
26) Acrylonitrile	5.281	53	456416	105.46	ug/L	99
27) ETBE	5.470	59	903900	23.49	ug/L	98
28) Vinyl acetate	5.470	43	2773899	106.45	ug/L	100
29) cis-1,2-Dichloroethene	5.818	96	267021	24.89	ug/L	98
30) 2,2-Dichloropropane	5.928	77	273698	26.09	ug/L	98
31) Bromochloromethane	6.025	128	116771	23.42	ug/L	90
32) Cyclohexane	6.062	56	580451	24.67	ug/L	98
33) Chloroform	6.086	83	492784	24.21	ug/L	99
34) Ethyl acetate	6.178	43	1098688	97.55	ug/L	99
35) Tetrahydrofuran	6.269	42	80405	26.62	ug/L	97

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\123016\
Data File : I44676.D
Acq On : 30 Dec 2016 8:31 pm
Operator : WILFREDO
Sample : FA39742-16MS MA Inst : MSVOA16
Misc : MS35976,VI1230,,,,,
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Dec 31 11:31:59 2016
Quant Method : C:\msdchem\2\METHODS\I-DEC22.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Dec 23 09:02:35 2016
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
37)	Carbon Tetrachloride	6.269	117	304792	25.46	ug/L		98
38)	1,1,1-Trichloroethane	6.324	97	386756	24.17	ug/L		98
39)	2-Butanone	6.385	43	572655	130.43	ug/L		98
40)	1,1-Dichloropropene	6.452	75	357583	24.93	ug/L		95
42)	Propionitrile	6.690	54	403967	250.00	ug/L		85
43)	Methacrylonitrile	6.714	41	1663956	251.43	ug/L		97
44)	Benzene	6.702	78	1159177	30.40	ug/L		89
45)	TAME	6.793	73	617648	23.13	ug/L		94
47)	1,2-Dichloroethane	6.903	62	423124	24.74	ug/L		99
48)	Trichloroethene	7.293	95	279918	25.10	ug/L		98
49)	Methylcyclohexane	7.305	83	453786	24.35	ug/L		97
50)	Dibromomethane	7.720	93	154800	24.73	ug/L		97
51)	1,2-Dichloropropane	7.811	63	311310	26.11	ug/L		98
52)	Bromodichloromethane	7.866	83	317114	25.45	ug/L		98
53)	Methyl methacrylate	7.982	41	191818	21.13	ug/L		96
54)	2-Chloroethyl vinyl ether	8.488	63	2427	0.33	ug/L	#	35
55)	cis-1,3-Dichloropropene	8.488	75	361611	21.69	ug/L		98
58)	Toluene	8.732	91	1055325	27.13	ug/L		99
59)	2-Nitropropane	8.933	41	287269	111.44	ug/L		97
60)	4-Methyl-2-pentanone	9.061	43	1334493	123.20	ug/L		97
61)	trans-1,3-Dichloropropene	9.122	75	339048	24.08	ug/L		96
62)	Tetrachloroethene	9.134	166	230286	22.12	ug/L		99
63)	Ethyl methacrylate	9.244	69	245398	18.88	ug/L		94
64)	1,1,2-Trichloroethane	9.287	83	196650	25.53	ug/L		98
65)	Dibromochloromethane	9.482	129	189008	20.49	ug/L		97
66)	1,3-Dichloropropane	9.561	76	387369	24.31	ug/L		95
67)	1,2-Dibromoethane	9.732	107	205887	25.55	ug/L		96
68)	2-hexanone	9.890	43	922970	118.50	ug/L		96
69)	1-Chlorohexane	10.219	91	338327m	24.08	ug/L		
70)	Ethylbenzene	10.244	91	30585672m	698.23	ug/L		
71)	Chlorobenzene	10.244	112	512498	18.66	ug/L	#	1
72)	1,1,1,2-Tetrachloroethane	10.317	131	186615	22.80	ug/L		96
73)	m,p-Xylene	10.390	91	35545018m	1057.22	ug/L		
74)	o-Xylene	10.829	91	851601	24.48	ug/L		99
75)	Styrene	10.878	104	531921	20.28	ug/L		99
76)	Bromoform	10.933	173	76343	16.30	ug/L		99
77)	Isopropylbenzene	11.134	105	3390335	82.71	ug/L		100
80)	cis-1,4-Dichloro-2-butene	11.487	53	19785	16.30	ug/L		97
81)	n-Propylbenzene	11.555	91	1988183	36.76	ug/L		100
82)	Bromobenzene	11.561	156	258542	26.74	ug/L		99
83)	1,1,2,2-Tetrachloroethane	11.615	83	286198	24.03	ug/L		98
84)	1,3,5-Trimethylbenzene	11.743	105	898136	27.02	ug/L		99
85)	2-Chlorotoluene	11.737	91	921865	25.48	ug/L		99
86)	trans-1,4-Dichloro-2-B...	11.798	53	32373	18.35	ug/L		96
87)	1,2,3-Trichloropropane	11.774	110	76863	24.89	ug/L		94
88)	Cyclohexanone	11.829	55	42505	94.37	ug/L		96
89)	4-Chlorotoluene	11.902	91	847064	25.74	ug/L		99
90)	tert-Butylbenzene	12.079	91	550299	24.91	ug/L		98
92)	1,2,4-Trimethylbenzene	12.152	105	904600	27.54	ug/L		97
93)	Pentachloroethane	12.121	167	114445	25.85	ug/L		98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\123016\
Data File : I44676.D
Acq On : 30 Dec 2016 8:31 pm
Operator : WILFREDO
Sample : FA39742-16MS MA Inst : MSVOA16
Misc : MS35976,VI1230,,,,,
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Dec 31 11:31:59 2016
Quant Method : C:\msdchem\2\METHODS\I-DEC22.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Dec 23 09:02:35 2016
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
94)	sec-Butylbenzene	12.262	105	1193888	25.78	ug/L		100
95)	4-Isopropyltoluene	12.402	119	967614	25.91	ug/L		99
96)	1,3-Dichlorobenzene	12.518	146	489073	25.09	ug/L		99
97)	1,4-Dichlorobenzene	12.609	146	501142	24.69	ug/L		97
98)	n-Butylbenzene	12.841	92	585785	25.20	ug/L		85
99)	Benzyl Chloride	12.847	126	70246	19.46	ug/L	#	5
100)	1,2-Dichlorobenzene	13.048	146	465050	24.72	ug/L		97
101)	1,2-Dibromo-3-Chloropr...	13.835	75	39863	21.31	ug/L		95
102)	Hexachlorobutadiene	14.414	225	116512	23.51	ug/L		98
103)	1,2,4-Trichlorobenzene	14.450	180	293267	23.76	ug/L		99
104)	Naphthalene	14.731	128	767509	27.90	ug/L		99
105)	1,2,3-Trichlorobenzene	14.889	180	259768	26.41	ug/L		98
107)	Ethanol	3.727	45	54407m	485.02	ug/L		
108)	Acrolein	4.172	56	188458	97.48	ug/L		97
109)	Tert Butyl Alcohol	4.769	59	450591	441.07	ug/L		91
110)	Isobutyl alcohol	6.842	43	195411	442.95	ug/L		86
111)	Tert Amyl Alcohol	6.952	59	176952	221.52	ug/L		90
112)	1,4-Dioxane	8.055	88	46685m	522.86	ug/L		
113)	3,3-Dimethyl-1-butanol	9.848	57	1657655	1656.70	ug/L		98

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

7.4.1

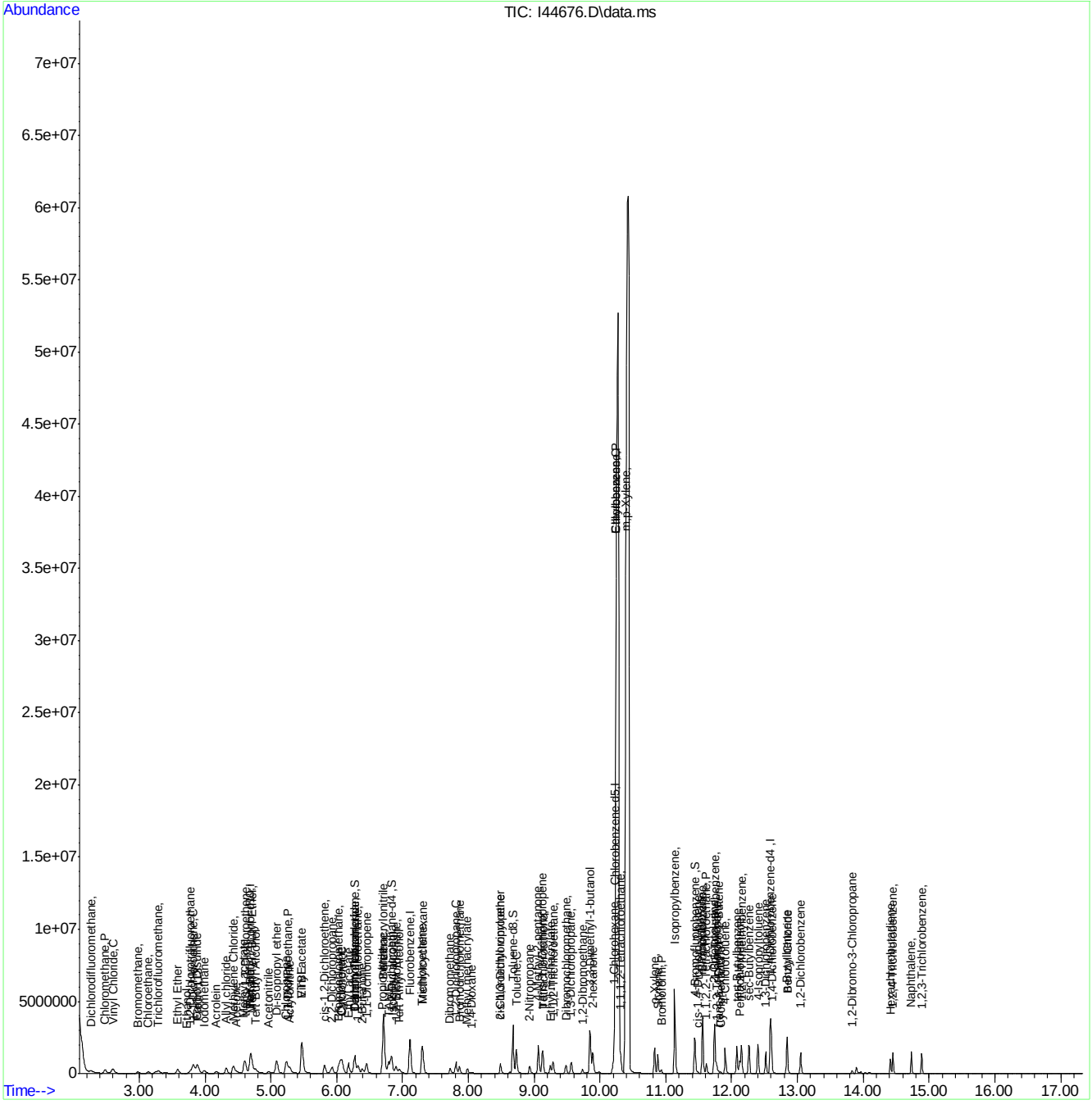
7

SGS ACCUTEST FA39742

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\123016\
Data File : I44676.D
Acq On : 30 Dec 2016 8:31 pm
Operator : WILFREDO
Sample : FA39742-16MS MA Inst : MSVOA16
Misc : MS35976,VI1230,,,,,
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Dec 31 11:31:59 2016
Quant Method : C:\msdchem\2\METHODS\I-DEC22.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Dec 23 09:02:35 2016
Response via : Initial Calibration



SGS ACCUTEST FA39742

Manual Integration Approval Summary

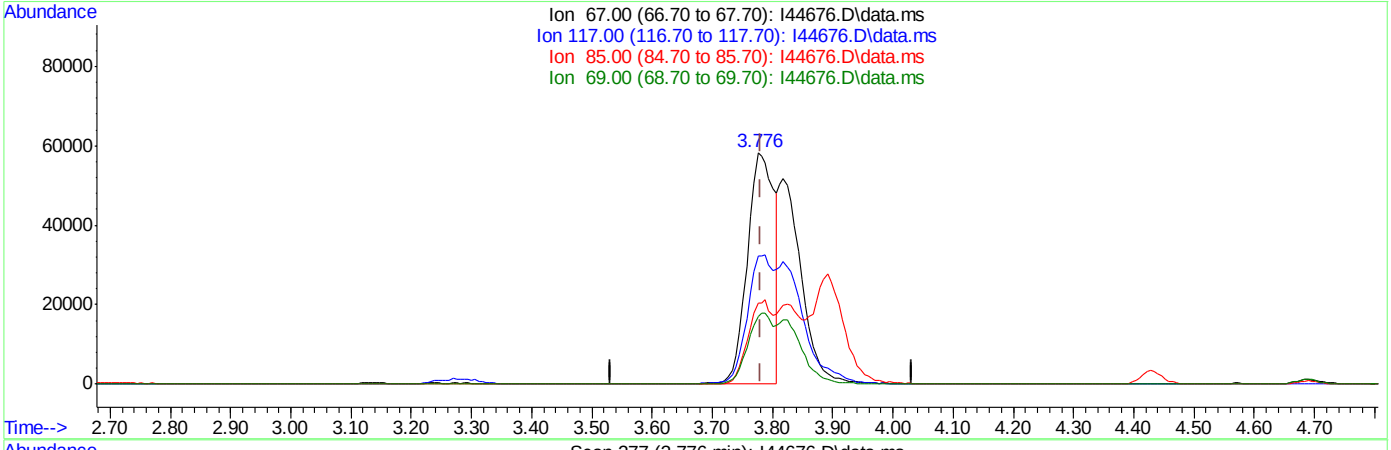
Sample Number:	FA39742-16MS	**Method:**	SW846 8260C
Lab FileID:	I44676.D	**Analyst approved:**	12/31/16 11:37 Wilfredo Vazquez
Injection Time:	12/30/16 20:31	**Supervisor approved:**	01/06/17 15:07 Juan Garcia

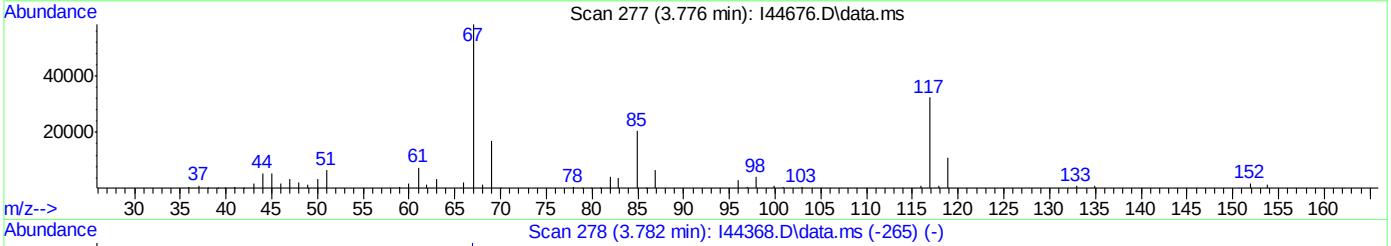
Parameter	CAS	Sig#	R.T. (min.)	Reason
Ethyl Alcohol	64-17-5		3.73	Poor instrument integration
1,2-Dichlorotrifluoroethane	354-23-4		3.78	Split peak
1,4-Dioxane	123-91-1		8.06	Poor instrument integration
1-Chlorohexane	544-10-5		10.22	Missed peak
Ethylbenzene	100-41-4		10.24	Missed peak
m,p-Xylene			10.39	Missed peak

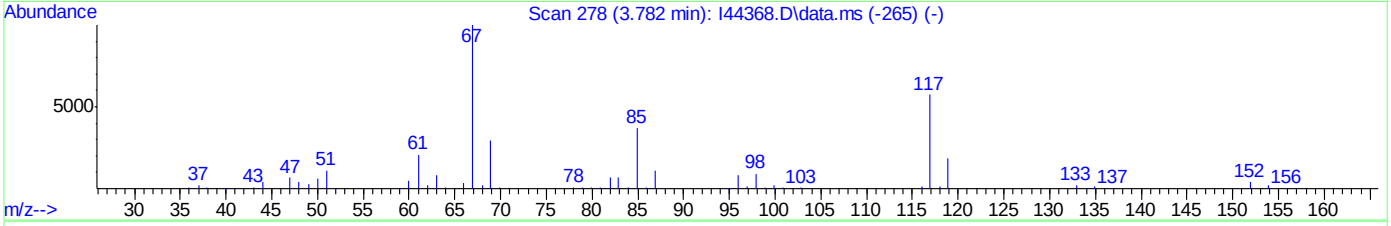
Quantitation Report (Qedit)

Data Path : C:\msdchem\2\DATA\123016\
Data File : I44676.D
Acq On : 30 Dec 2016 8:31 pm
Operator : WILFREDO
Sample : FA39742-16MS MA Inst : MSVOA16
Misc : MS35976,VI1230,,,,,
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Dec 31 10:57:32 2016
Quant Method : C:\msdchem\2\METHODS\I-DEC22.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Dec 23 09:02:35 2016
Response via : Initial Calibration







TIC: I44676.D\data.ms

(10) 1,2-Dichlorotrifluoroethane

3.776min (-0.006) 13.29ug/L

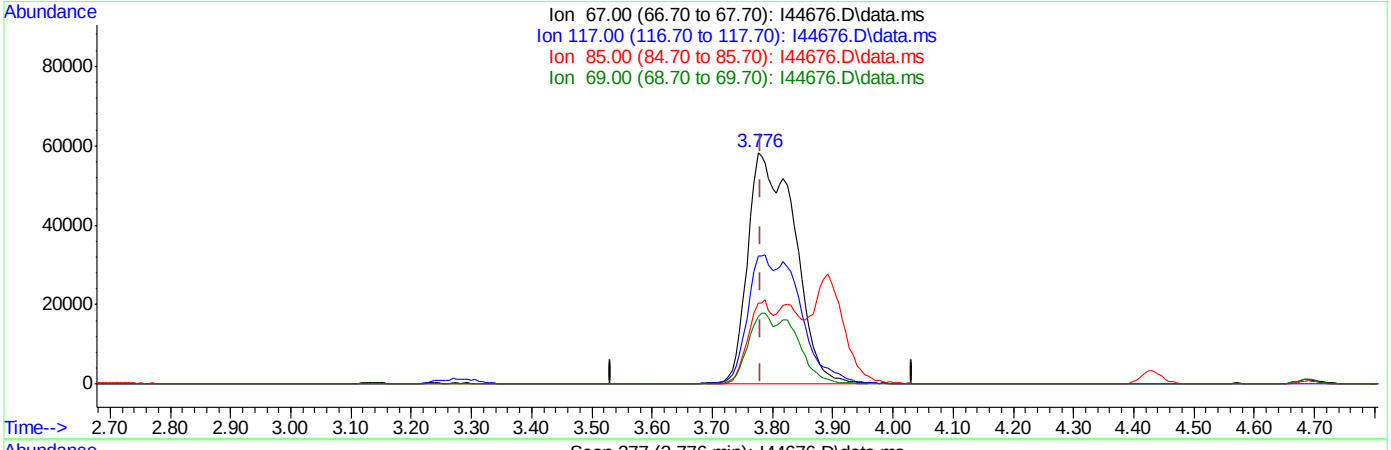
response 180169

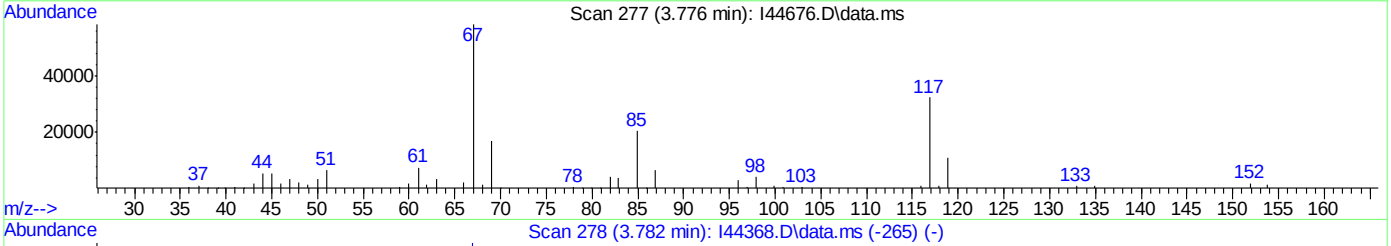
Ion	Exp%	Act%
67.00	100	100
117.00	57.70	55.58
85.00	36.80	35.14
69.00	29.70	29.24

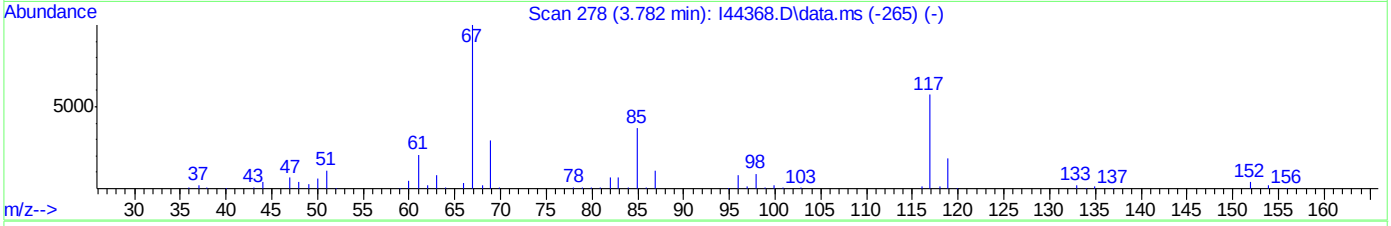
Quantitation Report (Qedit)

Data Path : C:\msdchem\2\DATA\123016\
Data File : I44676.D
Acq On : 30 Dec 2016 8:31 pm
Operator : WILFREDO
Sample : FA39742-16MS MA Inst : MSVOA16
Misc : MS35976,VI1230,,,,,
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Dec 31 10:57:32 2016
Quant Method : C:\msdchem\2\METHODS\I-DEC22.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Dec 23 09:02:35 2016
Response via : Initial Calibration







TIC: I44676.D\data.ms

(10) 1,2-Dichlorotrifluoroethane

3.776min (-0.006) 23.28ug/L m

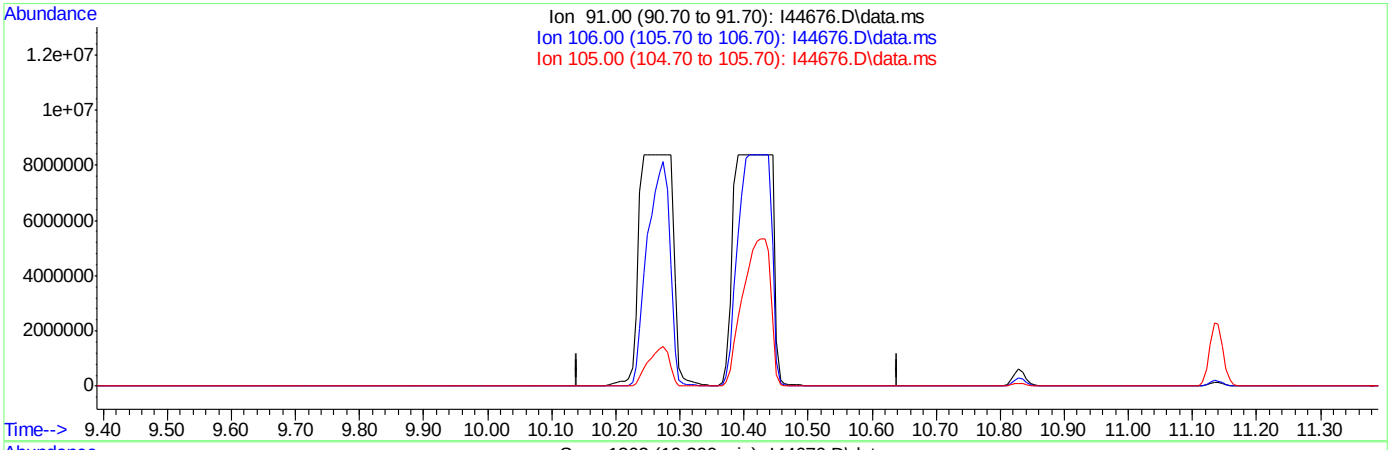
response 315463

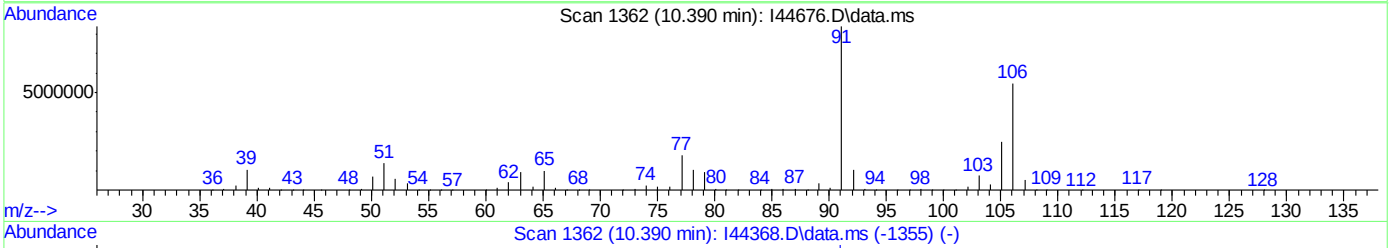
Ion	Exp%	Act%
67.00	100	100
117.00	57.70	55.58
85.00	36.80	35.14
69.00	29.70	29.24

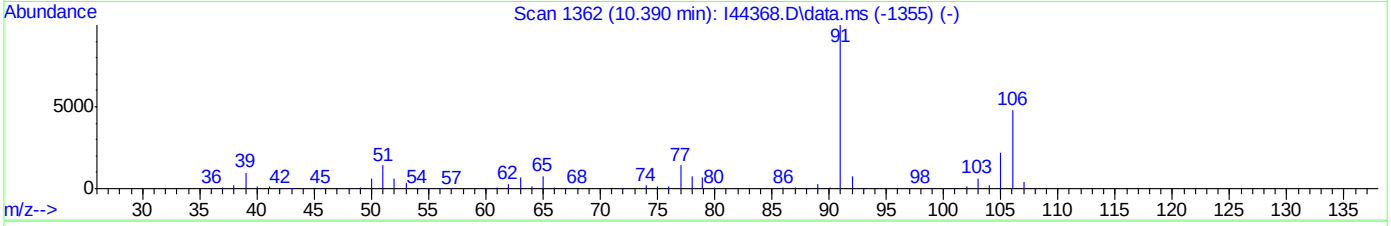
Quantitation Report (Qedit)

Data Path : C:\msdchem\2\DATA\123016\
Data File : I44676.D
Acq On : 30 Dec 2016 8:31 pm
Operator : WILFREDO
Sample : FA39742-16MS MA Inst : MSVOA16
Misc : MS35976,VI1230,,,,,
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Dec 31 10:57:32 2016
Quant Method : C:\msdchem\2\METHODS\I-DEC22.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Dec 23 09:02:35 2016
Response via : Initial Calibration







TIC: I44676.D\data.ms

(73) m,p-Xylene ( )

10.390min (-10.390) 0.00ug/L

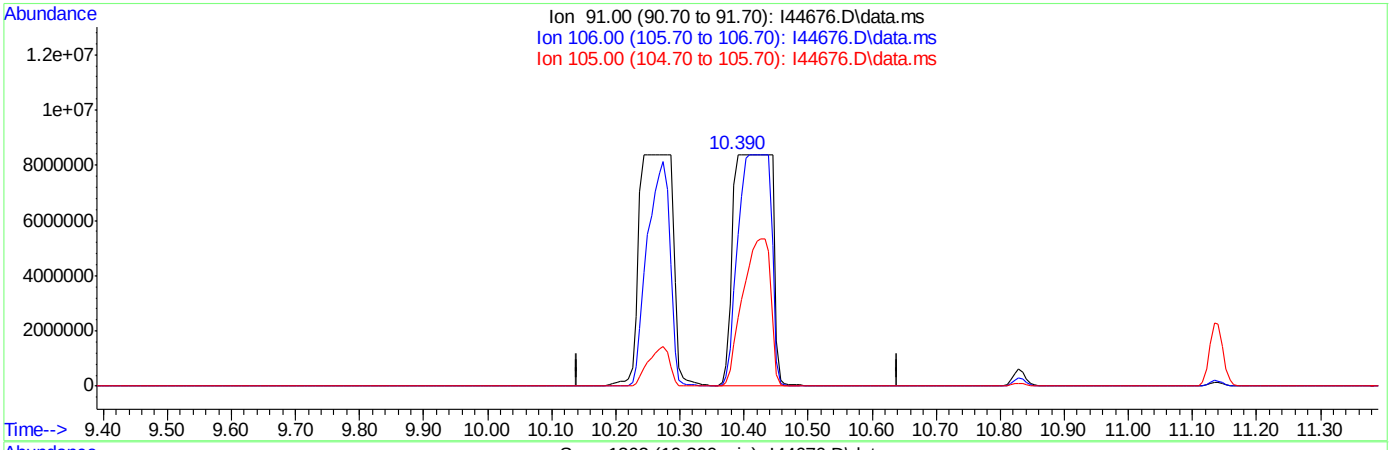
response 0

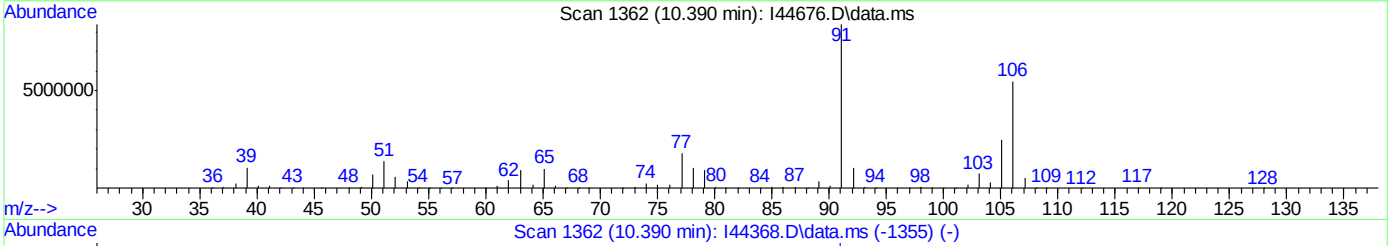
Ion	Exp%	Act%
91.00	100	0.00
106.00	48.00	0.00#
105.00	21.60	0.00
0.00	0.00	0.00

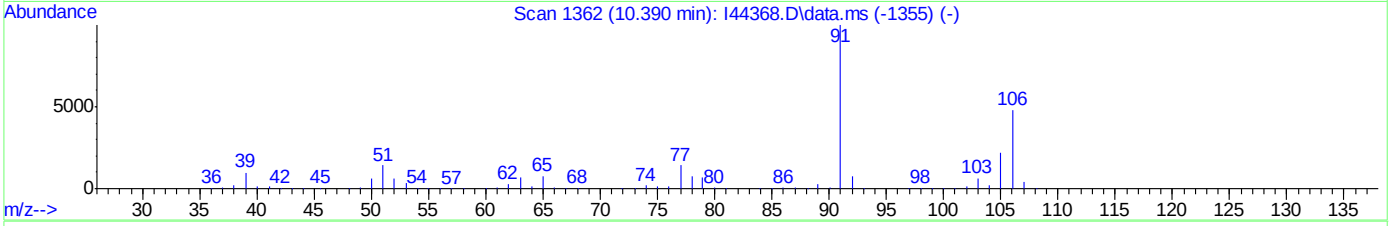
Quantitation Report (Qedit)

Data Path : C:\msdchem\2\DATA\123016\
Data File : I44676.D
Acq On : 30 Dec 2016 8:31 pm
Operator : WILFREDO
Sample : FA39742-16MS MA Inst : MSVOA16
Misc : MS35976,VI1230,,,,,
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Dec 31 10:57:32 2016
Quant Method : C:\msdchem\2\METHODS\I-DEC22.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Dec 23 09:02:35 2016
Response via : Initial Calibration







TIC: I44676.D\data.ms

(73) m,p-Xylene ( )

10.390min (+0.000) 1057.22ug/L m

response 35545018

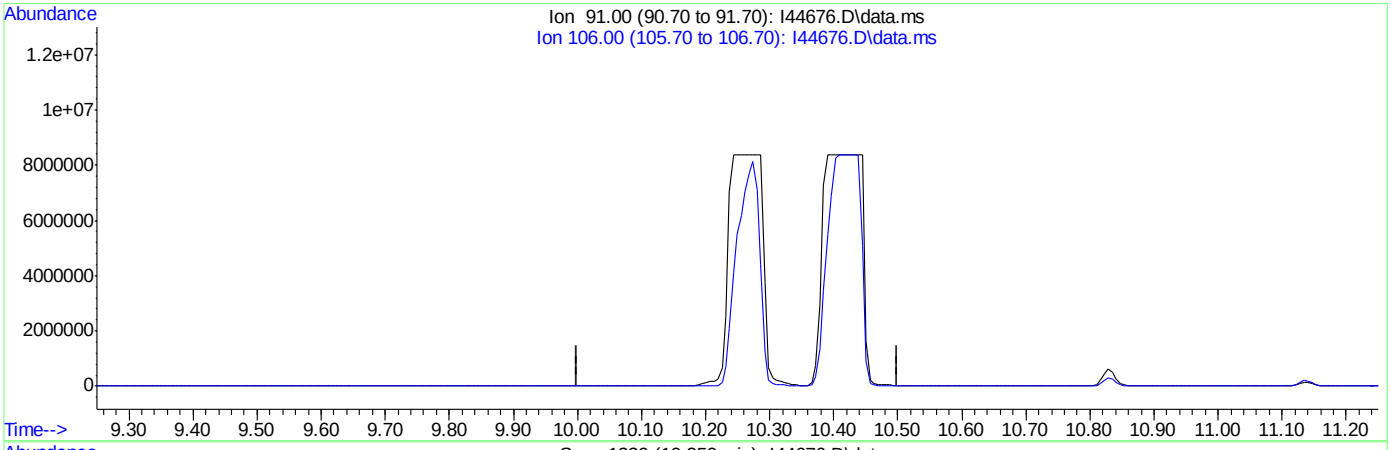
Ion	Exp%	Act%
91.00	100	100
106.00	48.00	65.26
105.00	21.60	29.62
0.00	0.00	0.00

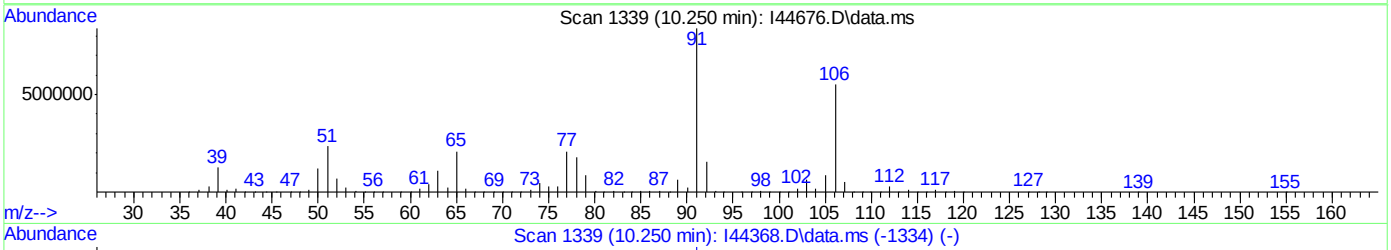
SGS ACCUTEST FA39742

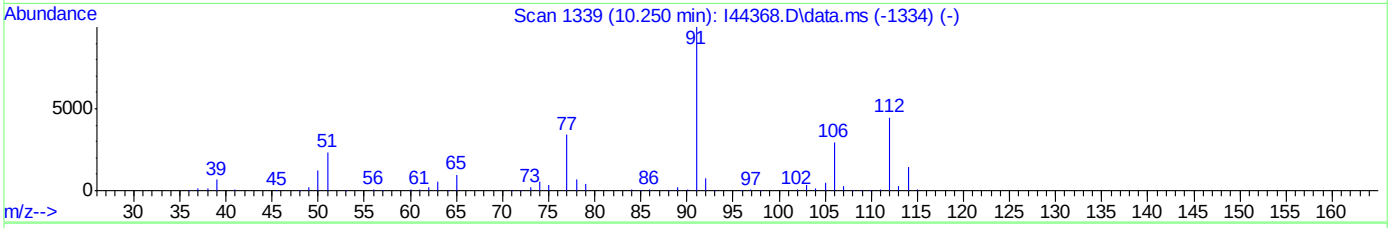
Quantitation Report (Qedit)

Data Path : C:\msdchem\2\DATA\123016\
Data File : I44676.D
Acq On : 30 Dec 2016 8:31 pm
Operator : WILFREDO
Sample : FA39742-16MS MA Inst : MSVOA16
Misc : MS35976,VI1230,,,,,
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Dec 31 10:57:32 2016
Quant Method : C:\msdchem\2\METHODS\I-DEC22.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Dec 23 09:02:35 2016
Response via : Initial Calibration







TIC: I44676.D\data.ms

(70) Ethylbenzene (C)

10.250min (-10.250) 0.00ug/L

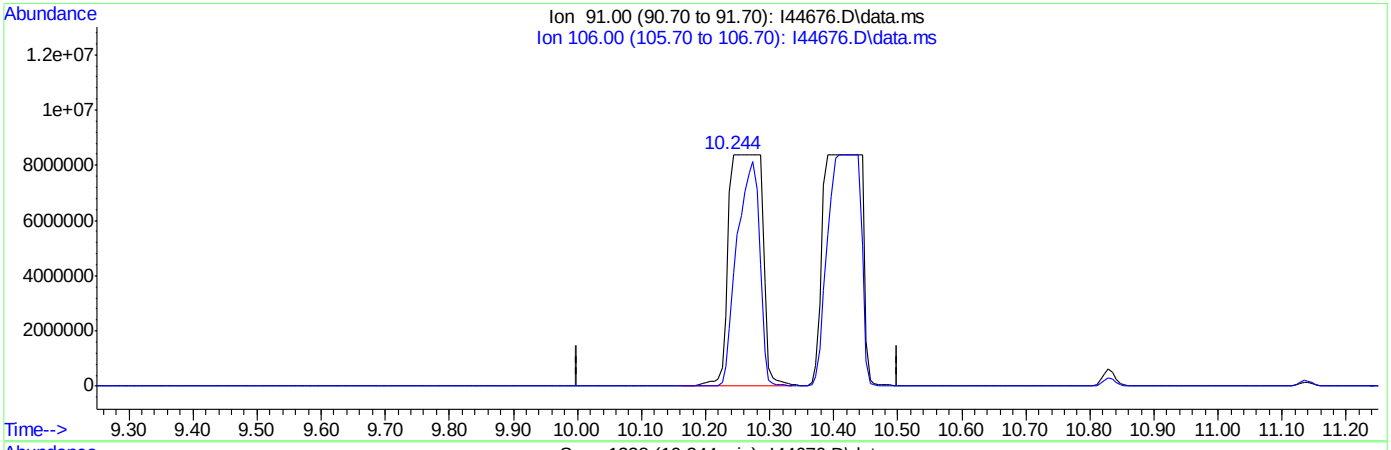
response 0

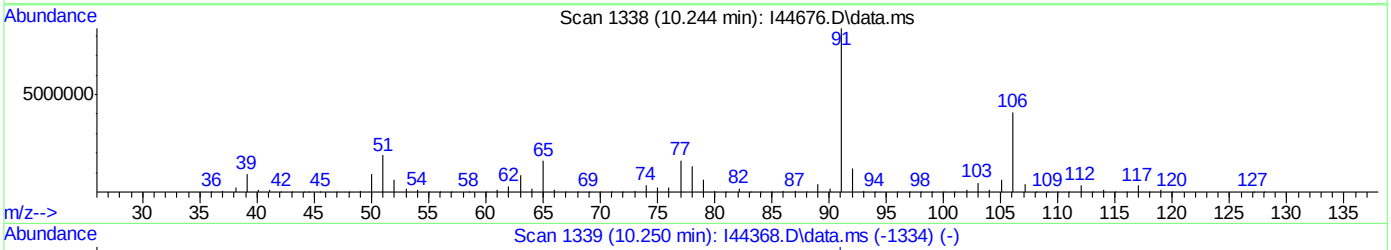
Ion	Exp%	Act%
91.00	100	0.00
106.00	29.50	0.00
0.00	0.00	0.00
0.00	0.00	0.00

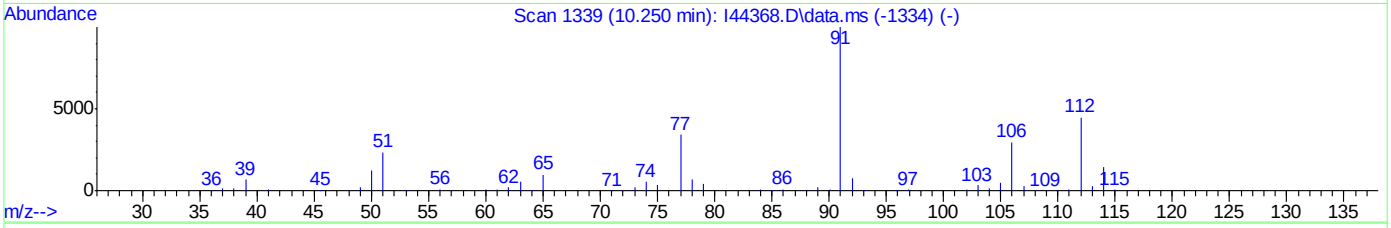
Quantitation Report (Qedit)

Data Path : C:\msdchem\2\DATA\123016\
Data File : I44676.D
Acq On : 30 Dec 2016 8:31 pm
Operator : WILFREDO
Sample : FA39742-16MS MA Inst : MSVOA16
Misc : MS35976,VI1230,,,,,
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Dec 31 10:57:32 2016
Quant Method : C:\msdchem\2\METHODS\I-DEC22.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Dec 23 09:02:35 2016
Response via : Initial Calibration







TIC: I44676.D\data.ms

(70) Ethylbenzene (C)

10.244min (-0.006) 698.23ug/L m

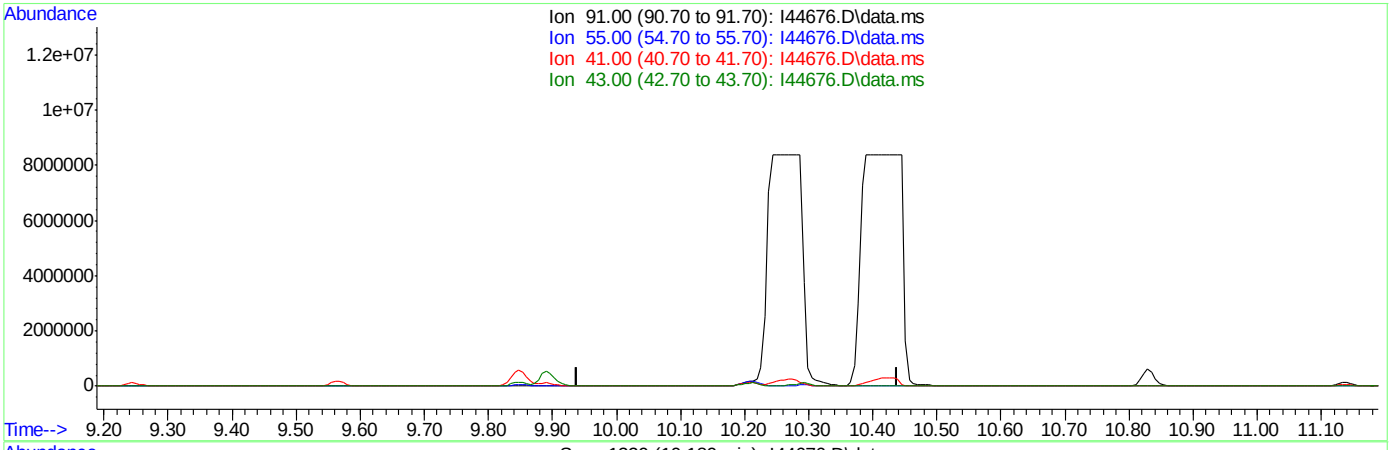
response 30585672

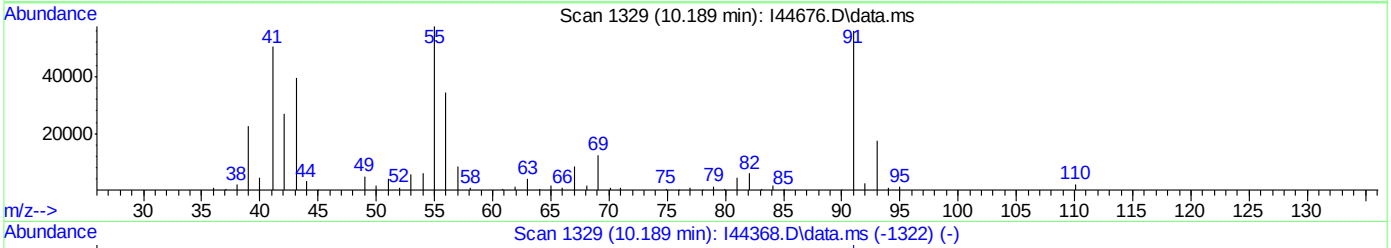
Ion	Exp%	Act%
91.00	100	100
106.00	29.50	48.95
0.00	0.00	0.00
0.00	0.00	0.00

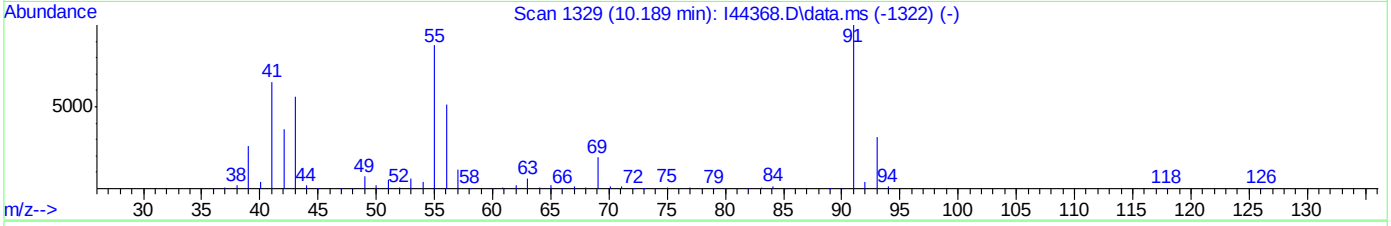
Quantitation Report (Qedit)

Data Path : C:\msdchem\2\DATA\123016\
Data File : I44676.D
Acq On : 30 Dec 2016 8:31 pm
Operator : WILFREDO
Sample : FA39742-16MS MA Inst : MSVOA16
Misc : MS35976,VI1230,,,,,
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Dec 31 10:57:32 2016
Quant Method : C:\msdchem\2\METHODS\I-DEC22.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Dec 23 09:02:35 2016
Response via : Initial Calibration







TIC: I44676.D\data.ms

(69) 1-Chlorohexane

10.189min (-10.189) 0.00ug/L

response 0

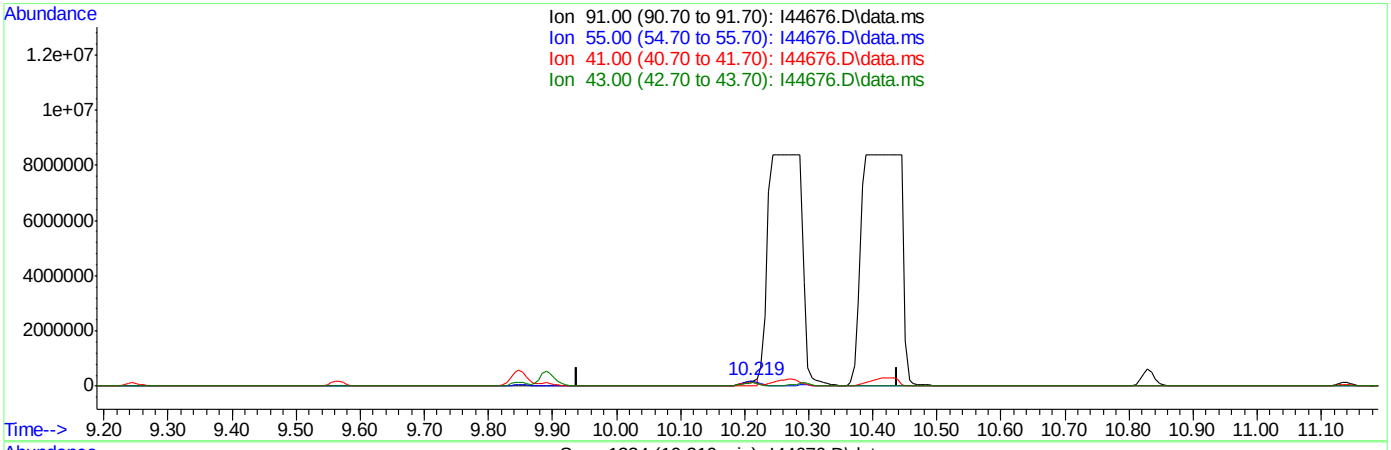
Ion	Exp%	Act%
91.00	100	0.00
55.00	87.40	0.00#
41.00	65.10	0.00#
43.00	56.30	0.00#

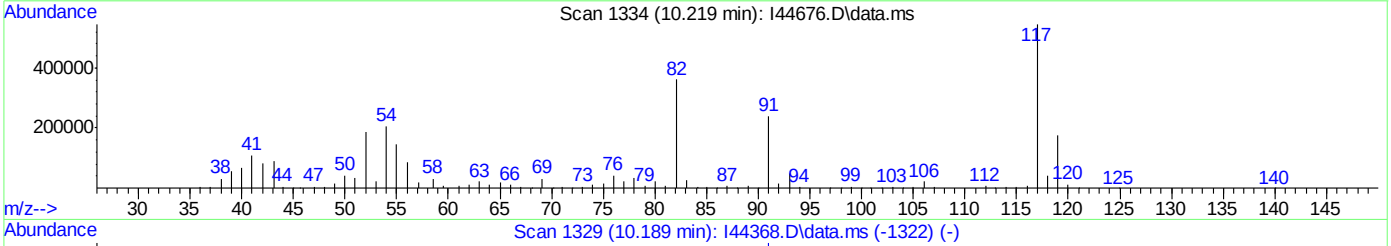
SGS ACCUTEST FA39742

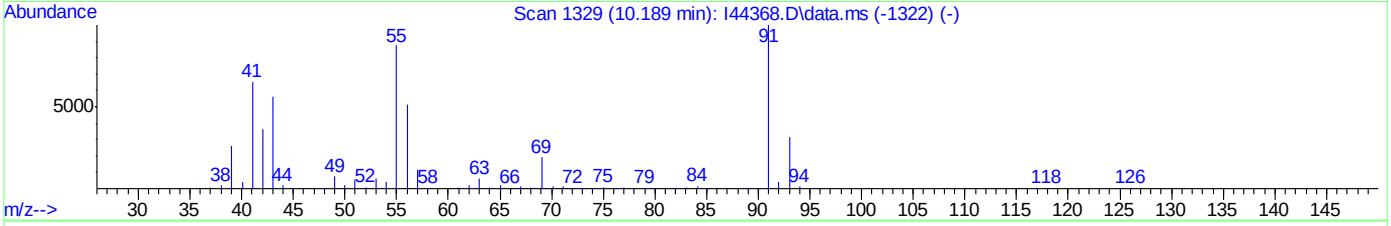
Quantitation Report (Qedit)

Data Path : C:\msdchem\2\DATA\123016\
Data File : I44676.D
Acq On : 30 Dec 2016 8:31 pm
Operator : WILFREDO
Sample : FA39742-16MS MA Inst : MSVOA16
Misc : MS35976,VI1230,,,,,
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Dec 31 10:57:32 2016
Quant Method : C:\msdchem\2\METHODS\I-DEC22.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Dec 23 09:02:35 2016
Response via : Initial Calibration







TIC: I44676.D\data.ms

(69) 1-Chlorohexane

10.219min (+0.030) 24.08ug/L m

response 338327

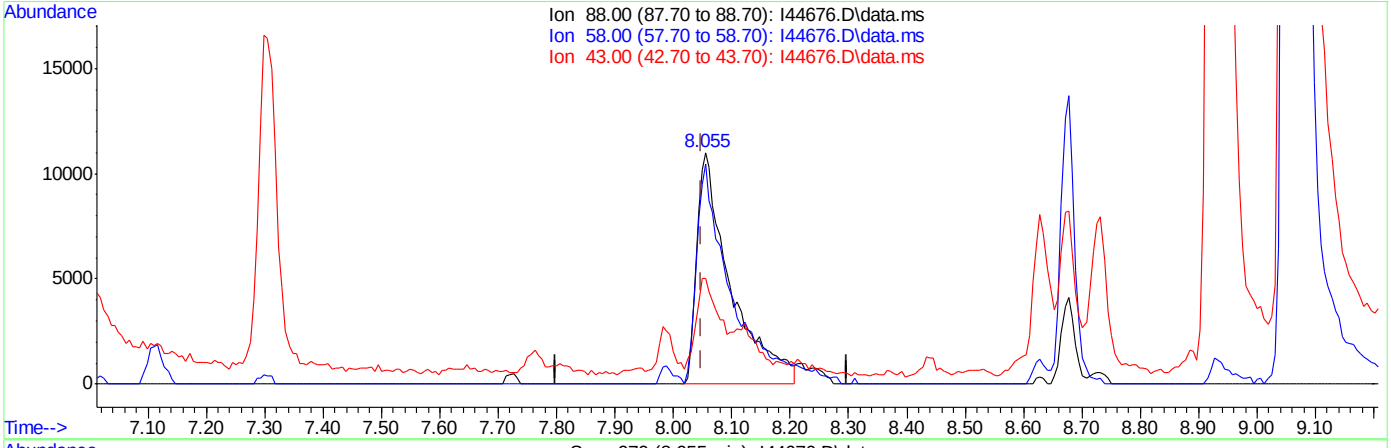
Ion	Exp%	Act%
91.00	100	100
55.00	87.40	61.22#
41.00	65.10	45.40
43.00	56.30	38.16

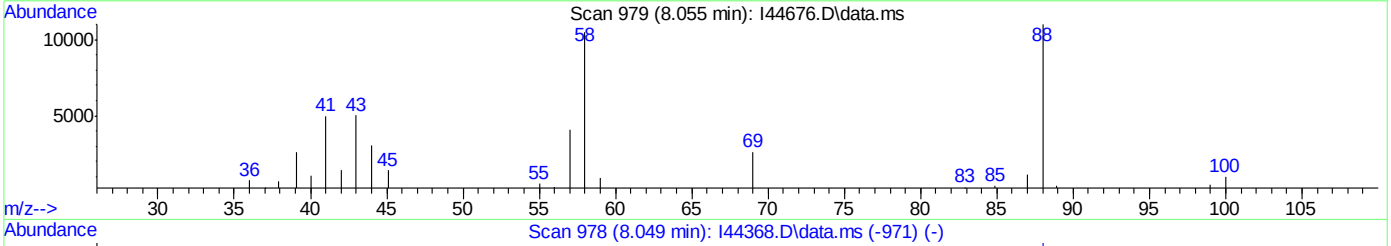
SGS ACCUTEST FA39742

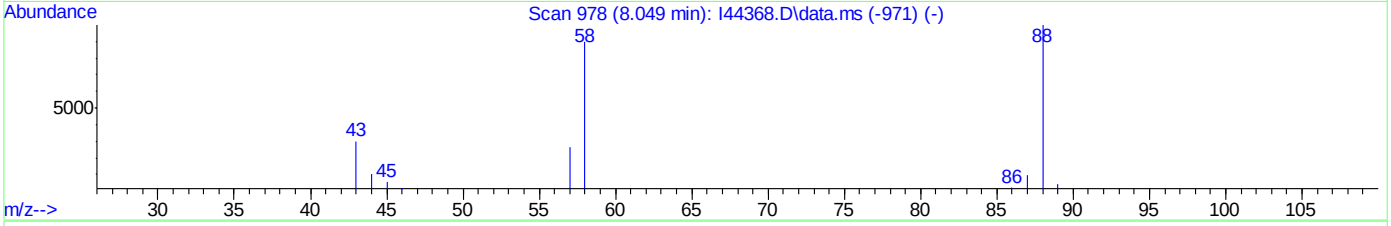
Quantitation Report (Qedit)

Data Path : C:\msdchem\2\DATA\123016\
Data File : I44676.D
Acq On : 30 Dec 2016 8:31 pm
Operator : WILFREDO
Sample : FA39742-16MS MA Inst : MSVOA16
Misc : MS35976,VI1230,,,,,
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Dec 31 10:57:32 2016
Quant Method : C:\msdchem\2\METHODS\I-DEC22.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Dec 23 09:02:35 2016
Response via : Initial Calibration







TIC: I44676.D\data.ms

(112) 1,4-Dioxane

8.055min (+0.006) 495.67ug/L

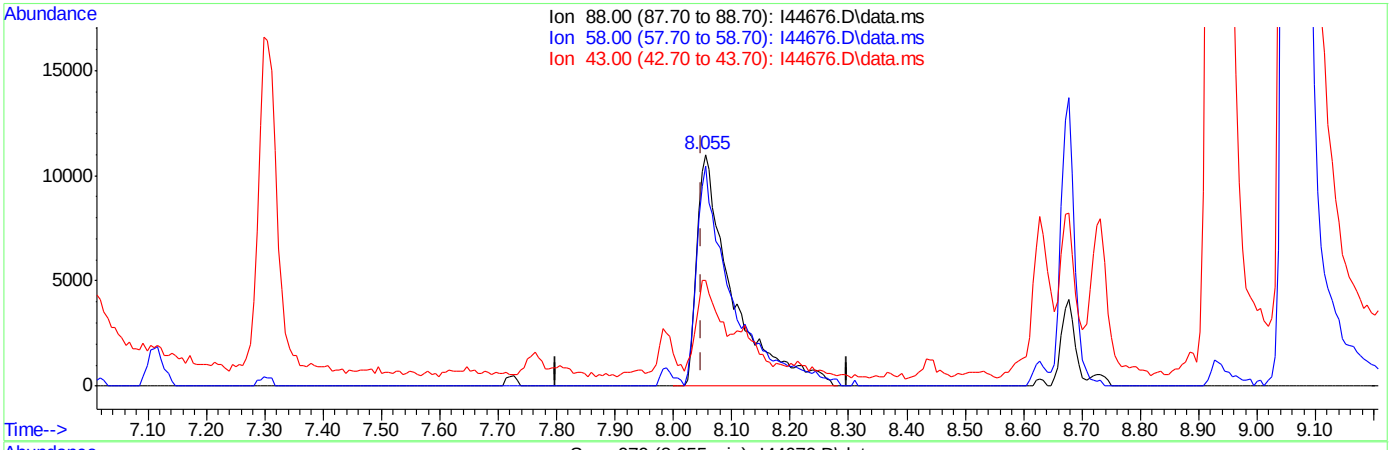
response 44258

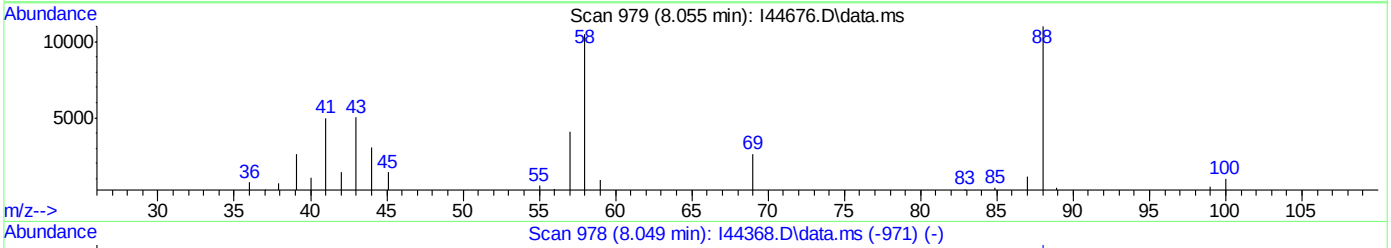
Ion	Exp%	Act%
88.00	100	100
58.00	90.10	92.74
43.00	33.30	37.00
0.00	0.00	0.00

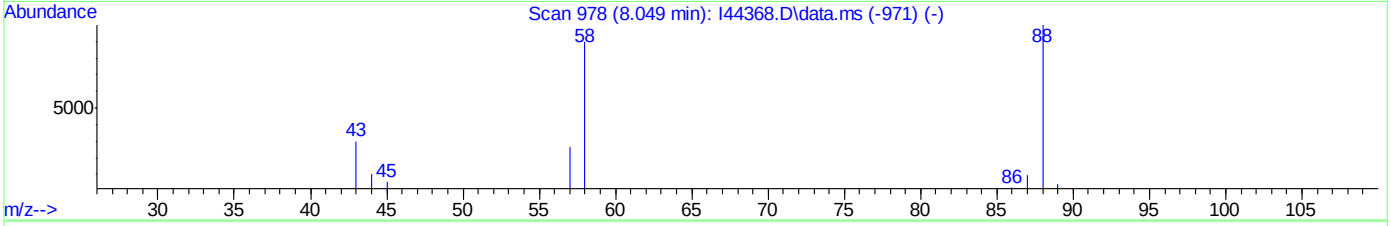
Quantitation Report (Qedit)

Data Path : C:\msdchem\2\DATA\123016\
Data File : I44676.D
Acq On : 30 Dec 2016 8:31 pm
Operator : WILFREDO
Sample : FA39742-16MS MA Inst : MSVOA16
Misc : MS35976,VI1230,,,,,
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Dec 31 10:57:32 2016
Quant Method : C:\msdchem\2\METHODS\I-DEC22.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Dec 23 09:02:35 2016
Response via : Initial Calibration







TIC: I44676.D\data.ms

(112) 1,4-Dioxane

8.055min (+0.006) 522.86ug/L m

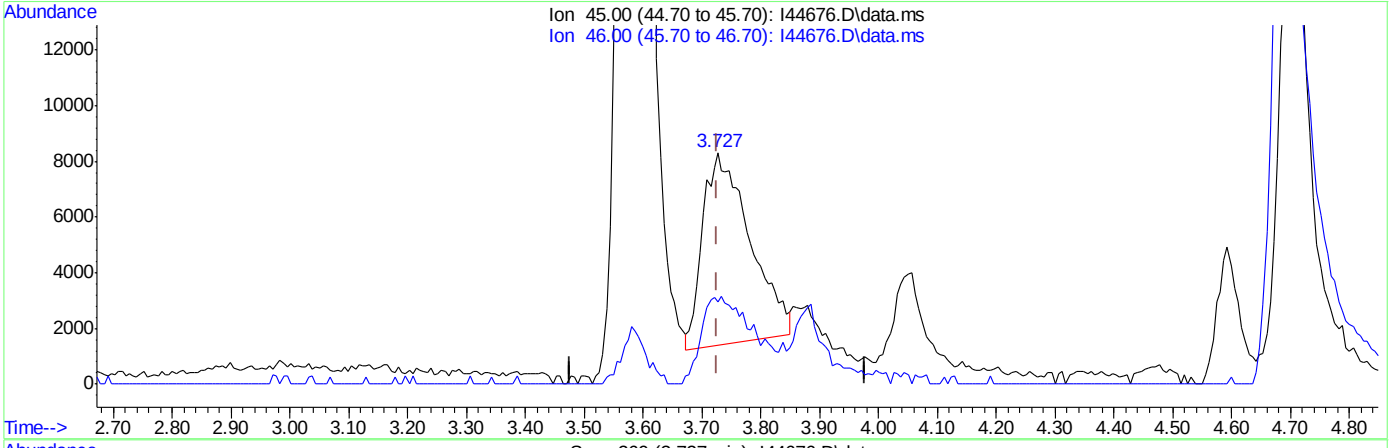
response 46685

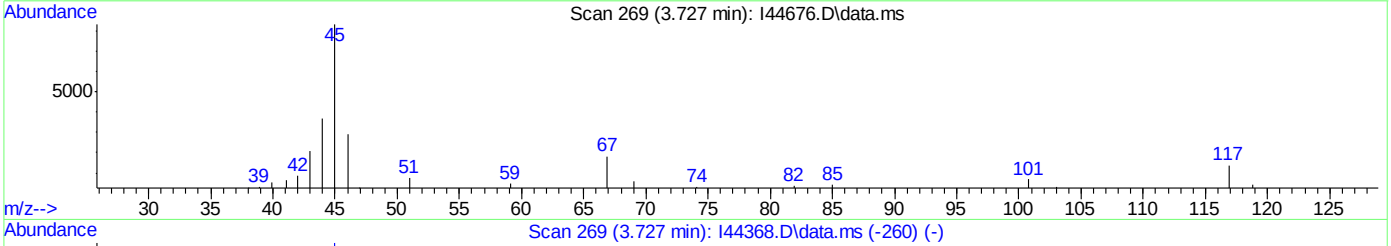
Ion	Exp%	Act%
88.00	100	100
58.00	90.10	95.12
43.00	33.30	45.76
0.00	0.00	0.00

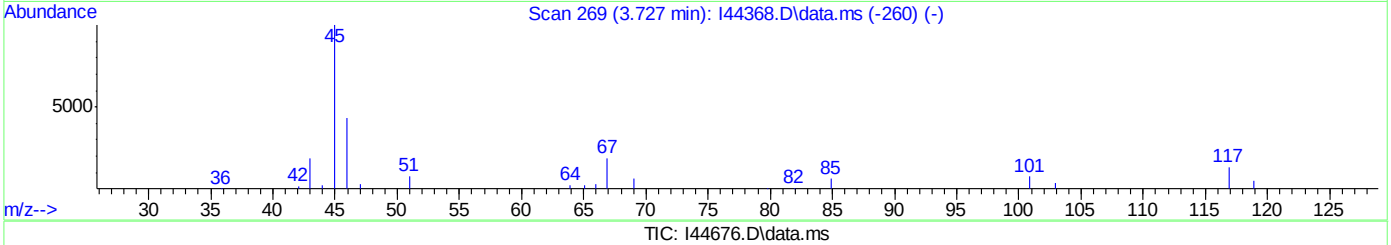
Quantitation Report (Qedit)

Data Path : C:\msdchem\2\DATA\123016\
Data File : I44676.D
Acq On : 30 Dec 2016 8:31 pm
Operator : WILFREDO
Sample : FA39742-16MS MA Inst : MSVOA16
Misc : MS35976,VI1230,,,,,
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Dec 31 10:57:32 2016
Quant Method : C:\msdchem\2\METHODS\I-DEC22.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Dec 23 09:02:35 2016
Response via : Initial Calibration







TIC: I44676.D\data.ms

(107) Ethanol

3.727min (-0.000) 341.56ug/L

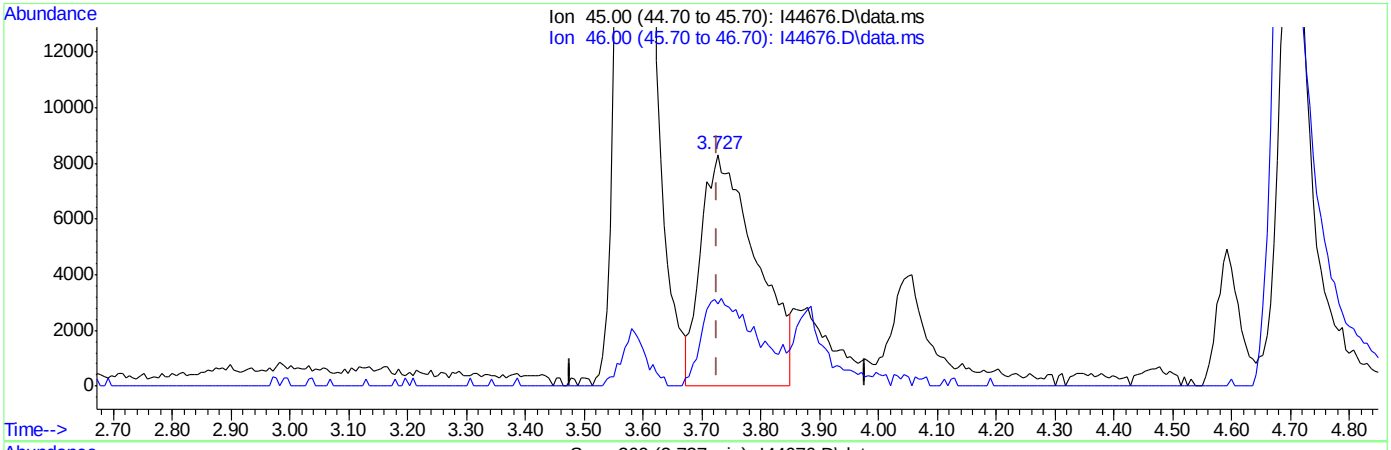
response 38315

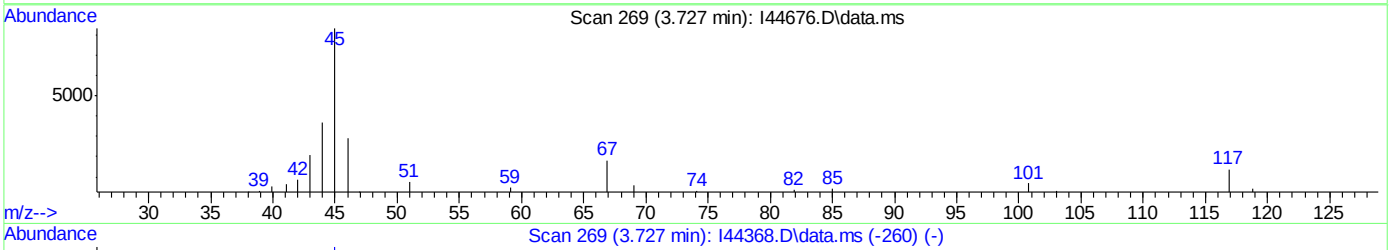
Ion	Exp%	Act%
45.00	100	100
46.00	37.40	40.26
0.00	0.00	0.00
0.00	0.00	0.00

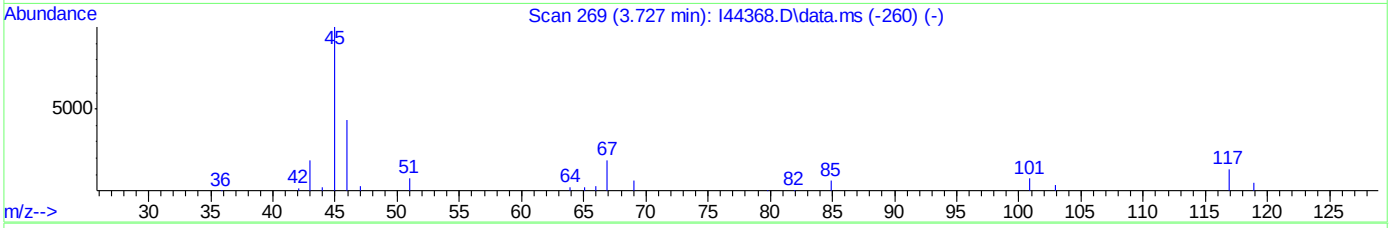
Quantitation Report (Qedit)

Data Path : C:\msdchem\2\DATA\123016\
Data File : I44676.D
Acq On : 30 Dec 2016 8:31 pm
Operator : WILFREDO
Sample : FA39742-16MS MA Inst : MSVOA16
Misc : MS35976,VI1230,,,,,
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Dec 31 10:57:32 2016
Quant Method : C:\msdchem\2\METHODS\I-DEC22.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Dec 23 09:02:35 2016
Response via : Initial Calibration







TIC: I44676.D\data.ms

(107) Ethanol

3.727min (-0.000) 485.02ug/L m

response 54407

Ion	Exp%	Act%
45.00	100	100
46.00	37.40	35.26
0.00	0.00	0.00
0.00	0.00	0.00

SGS ACCUTEST FA39742

Manual Integrations APPROVED (compounds with "m" flag)
Juan Garcia
01/06/17 15:07

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\123016\
Data File : I44677.D
Acq On : 30 Dec 2016 8:55 pm
Operator : WILFREDO
Sample : FA39742-16MSD MA Inst : MSVOA16
Misc : MS35976,VI1230,,,,,
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Dec 31 11:31:45 2016
Quant Method : C:\msdchem\2\METHODS\I-DEC22.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Dec 23 09:02:35 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Fluorobenzene	7.116	96	2177978	50.00 ug/L	0.00
56) Chlorobenzene-d5	10.232	117	1412379	50.00 ug/L	0.00
78) 1,4-Dichlorobenzene-d4	12.591	152	706094	50.00 ug/L	0.00
106) Tert Butyl Alcohol-d10	4.696	65	206151	250.00 ug/L	0.00
System Monitoring Compounds					
36) Dibromofluoromethane	6.275	113	564523	51.34 ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 102.68%		
46) 1,2-Dichloroethane-d4	6.830	65	762946	49.13 ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 98.26%		
57) Toluene-d8	8.677	98	2047531	53.02 ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 106.04%		
79) 4-Bromofluorobenzene	11.439	174	508292	49.42 ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 98.84%		
Target Compounds					Qvalue
2) Dichlorodifluoromethane	2.270	85	311236	21.45 ug/L	97
3) Chloromethane	2.477	50	459142	20.99 ug/L	99
5) Vinyl Chloride	2.599	62	369344	22.13 ug/L	99
6) Bromomethane	2.977	94	111546	22.06 ug/L	100
7) Chloroethane	3.135	64	145280	21.87 ug/L	98
8) Trichlorofluoromethane	3.288	101	380954	23.82 ug/L	100
9) Ethyl Ether	3.587	59	292229	22.88 ug/L	99
10) 1,2-Dichlorotrifluoroe...	3.782	67	345523m	23.43 ug/L	
11) 1,1-Dichloroethene	3.824	61	534439	25.47 ug/L	98
12) Freon 113	3.891	101	254150	22.18 ug/L	98
13) Carbon Disulfide	3.879	76	780237	21.66 ug/L	99
14) Iodomethane	3.989	142	368815	22.77 ug/L	100
15) Allyl chloride	4.324	41	378856	19.76 ug/L	100
16) Methylene Chloride	4.434	49	514549	25.60 ug/L	99
17) Acetone	4.477	43	352602	107.37 ug/L	99
18) Methyl acetate	4.592	43	928174	107.64 ug/L	100
19) trans-1,2-Dichloroethene	4.611	61	508776	25.73 ug/L	100
20) Hexane	4.690	56	352879	22.86 ug/L	94
21) Methyl Tert Butyl Ether	4.708	73	904819	29.98 ug/L	93
22) Acetonitrile	4.970	41	237734	227.59 ug/L	95
23) Di-isopropyl ether	5.092	45	1234534	26.16 ug/L	99
24) Chloroprene	5.233	53	465584	21.55 ug/L	99
25) 1,1-Dichloroethane	5.251	63	632140	27.14 ug/L	99
26) Acrylonitrile	5.287	53	524863	111.47 ug/L	98
27) ETBE	5.470	59	1015243	24.25 ug/L	99
28) Vinyl acetate	5.476	43	3219934	113.57 ug/L	100
29) cis-1,2-Dichloroethene	5.818	96	302142	25.88 ug/L	98
30) 2,2-Dichloropropane	5.934	77	294167	25.78 ug/L	99
31) Bromochloromethane	6.031	128	130169	24.00 ug/L	99
32) Cyclohexane	6.062	56	645425	25.22 ug/L	99
33) Chloroform	6.086	83	536577	24.23 ug/L	100
34) Ethyl acetate	6.178	43	1271637	103.77 ug/L	99
35) Tetrahydrofuran	6.275	42	81838	24.91 ug/L	98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\123016\
Data File : I44677.D
Acq On : 30 Dec 2016 8:55 pm
Operator : WILFREDO
Sample : FA39742-16MSD MA Inst : MSVOA16
Misc : MS35976,VI1230,,,,,
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Dec 31 11:31:45 2016
Quant Method : C:\msdchem\2\METHODS\I-DEC22.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Dec 23 09:02:35 2016
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
37)	Carbon Tetrachloride	6.269	117	345949	26.57	ug/L		97
38)	1,1,1-Trichloroethane	6.330	97	425514	24.44	ug/L		99
39)	2-Butanone	6.391	43	632416	132.39	ug/L		99
40)	1,1-Dichloropropene	6.452	75	402139	25.77	ug/L		97
42)	Propionitrile	6.690	54	416096	236.68	ug/L		96
43)	Methacrylonitrile	6.714	41	1709106	237.37	ug/L		96
44)	Benzene	6.708	78	1271197	30.64	ug/L		92
45)	TAME	6.793	73	694916	23.92	ug/L		96
47)	1,2-Dichloroethane	6.903	62	452499	24.31	ug/L		100
48)	Trichloroethene	7.299	95	317339	26.15	ug/L		97
49)	Methylcyclohexane	7.305	83	511989	25.25	ug/L		96
50)	Dibromomethane	7.726	93	169718	24.92	ug/L		95
51)	1,2-Dichloropropane	7.811	63	345650	26.65	ug/L		97
52)	Bromodichloromethane	7.866	83	351918	25.96	ug/L		98
53)	Methyl methacrylate	7.982	41	207755	21.04	ug/L		95
55)	cis-1,3-Dichloropropene	8.488	75	402460	22.19	ug/L		98
58)	Toluene	8.732	91	1208684	30.32	ug/L		99
59)	2-Nitropropane	8.933	41	304103	115.10	ug/L		99
60)	4-Methyl-2-pentanone	9.061	43	1515059	136.48	ug/L		98
61)	trans-1,3-Dichloropropene	9.122	75	374077	25.92	ug/L		98
62)	Tetrachloroethene	9.134	166	255257	23.92	ug/L		97
63)	Ethyl methacrylate	9.244	69	276932	20.79	ug/L		97
64)	1,1,2-Trichloroethane	9.287	83	213257	27.01	ug/L		98
65)	Dibromochloromethane	9.482	129	205077	21.69	ug/L		99
66)	1,3-Dichloropropane	9.561	76	422214	25.85	ug/L		98
67)	1,2-Dibromoethane	9.738	107	229726	27.81	ug/L		98
68)	2-hexanone	9.890	43	1027232	128.69	ug/L		99
69)	1-Chlorohexane	10.219	91	368487m	25.59	ug/L		
70)	Ethylbenzene	10.244	91	31094587m	692.61	ug/L		
71)	Chlorobenzene	10.244	112	526417	18.70	ug/L	#	1
72)	1,1,1,2-Tetrachloroethane	10.317	131	206412	24.61	ug/L		99
73)	m,p-Xylene	10.390	91	35863659m	1040.80	ug/L		
74)	o-Xylene	10.829	91	906124	25.42	ug/L		98
75)	Styrene	10.878	104	587032	21.84	ug/L		99
76)	Bromoform	10.933	173	81824	17.05	ug/L		98
77)	Isopropylbenzene	11.134	105	3586466	85.37	ug/L		100
80)	cis-1,4-Dichloro-2-butene	11.481	53	25285	19.39	ug/L		93
81)	n-Propylbenzene	11.555	91	2150557	37.77	ug/L		100
82)	Bromobenzene	11.561	156	280490	27.56	ug/L		99
83)	1,1,2,2-Tetrachloroethane	11.615	83	305577	24.37	ug/L		99
84)	1,3,5-Trimethylbenzene	11.744	105	944290	26.99	ug/L		99
85)	2-Chlorotoluene	11.737	91	977628	25.67	ug/L		99
86)	trans-1,4-Dichloro-2-B...	11.798	53	37939	20.24	ug/L		99
87)	1,2,3-Trichloropropane	11.768	110	79431	24.43	ug/L		97
88)	Cyclohexanone	11.829	55	44757	94.39	ug/L		98
89)	4-Chlorotoluene	11.902	91	919182	26.53	ug/L		100
90)	tert-Butylbenzene	12.079	91	589362	25.34	ug/L		98
92)	1,2,4-Trimethylbenzene	12.152	105	981934	28.40	ug/L		98
93)	Pentachloroethane	12.121	167	120490	25.85	ug/L		98
94)	sec-Butylbenzene	12.262	105	1298828	26.65	ug/L		100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\123016\
Data File : I44677.D
Acq On : 30 Dec 2016 8:55 pm
Operator : WILFREDO
Sample : FA39742-16MSD MA Inst : MSVOA16
Misc : MS35976,VI1230,,,,,
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Dec 31 11:31:45 2016
Quant Method : C:\msdchem\2\METHODS\I-DEC22.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Dec 23 09:02:35 2016
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
95)	4-Isopropyltoluene	12.402	119	1016576	25.85	ug/L		99
96)	1,3-Dichlorobenzene	12.518	146	536062	26.12	ug/L		100
97)	1,4-Dichlorobenzene	12.609	146	537988	25.18	ug/L		96
98)	n-Butylbenzene	12.841	92	636603	26.02	ug/L		87
99)	Benzyl Chloride	12.847	126	73920	19.46	ug/L	#	10
100)	1,2-Dichlorobenzene	13.048	146	490648	24.78	ug/L		98
101)	1,2-Dibromo-3-Chloropr...	13.835	75	41724	21.19	ug/L		93
102)	Hexachlorobutadiene	14.414	225	131141	25.14	ug/L		99
103)	1,2,4-Trichlorobenzene	14.450	180	324936	25.01	ug/L		99
104)	Naphthalene	14.731	128	834018	28.80	ug/L		100
105)	1,2,3-Trichlorobenzene	14.889	180	287954	27.81	ug/L		98
107)	Ethanol	3.727	45	53397m	471.62	ug/L		
108)	Acrolein	4.172	56	250695	128.48	ug/L		97
109)	Tert Butyl Alcohol	4.775	59	452872	439.21	ug/L		88
110)	Isobutyl alcohol	6.848	43	196314	440.89	ug/L		85
111)	Tert Amyl Alcohol	6.952	59	191847	237.95	ug/L		94
112)	1,4-Dioxane	8.055	88	46560m	516.64	ug/L		
113)	3,3-Dimethyl-1-butanol	9.848	57	1357109	1343.80	ug/L		99

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

7.4.2

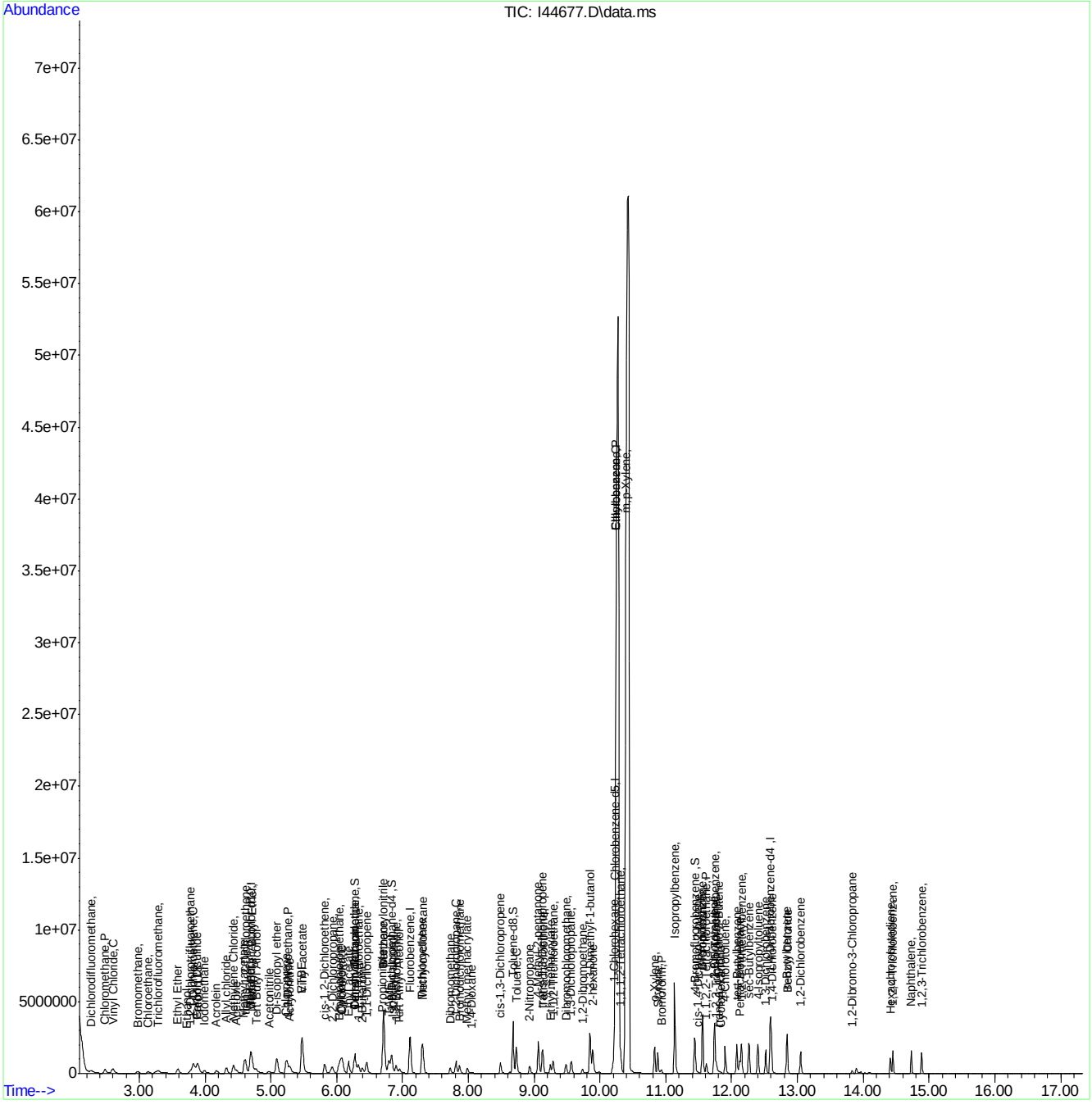
7

SGS ACCUTEST FA39742

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\123016\
Data File : I44677.D
Acq On : 30 Dec 2016 8:55 pm
Operator : WILFREDO
Sample : FA39742-16MSD MA Inst : MSVOA16
Misc : MS35976,VI1230,,,,,
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Dec 31 11:31:45 2016
Quant Method : C:\msdchem\2\METHODS\I-DEC22.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Dec 23 09:02:35 2016
Response via : Initial Calibration



SGS ACCUTEST FA39742

Manual Integration Approval Summary

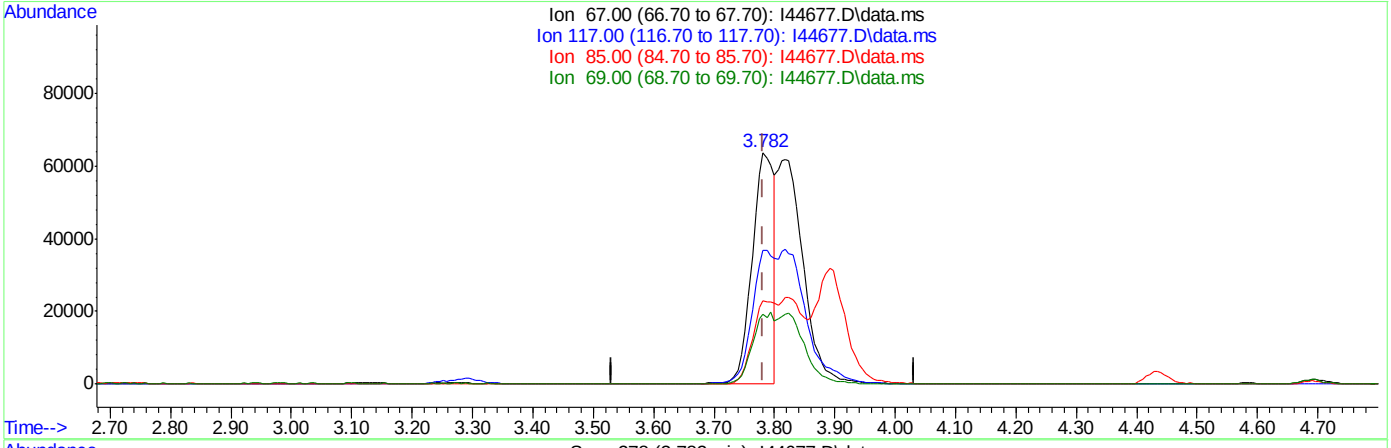
Sample Number:	FA39742-16MSD	**Method:**	SW846 8260C
Lab FileID:	I44677.D	**Analyst approved:**	12/31/16 11:37 Wilfredo Vazquez
Injection Time:	12/30/16 20:55	**Supervisor approved:**	01/06/17 15:07 Juan Garcia

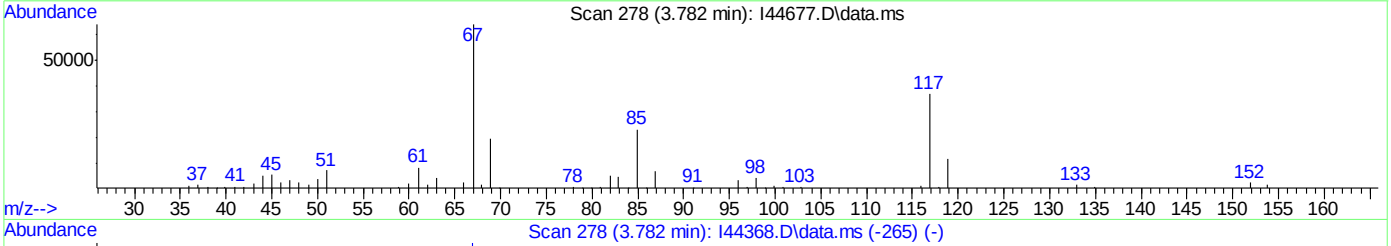
Parameter	CAS	Sig#	R.T. (min.)	Reason
Ethyl Alcohol	64-17-5		3.73	Poor instrument integration
1,2-Dichlorotrifluoroethane	354-23-4		3.78	Split peak
1,4-Dioxane	123-91-1		8.06	Poor instrument integration
1-Chlorohexane	544-10-5		10.22	Missed peak
Ethylbenzene	100-41-4		10.24	Missed peak
m,p-Xylene			10.39	Missed peak

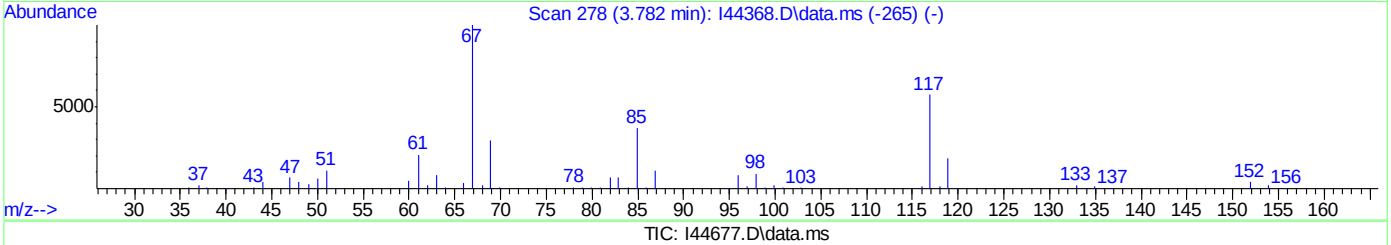
Quantitation Report (Qedit)

Data Path : C:\msdchem\2\DATA\123016\
Data File : I44677.D
Acq On : 30 Dec 2016 8:55 pm
Operator : WILFREDO
Sample : FA39742-16MSD MA Inst : MSVOA16
Misc : MS35976,VI1230,,,,,
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Dec 31 10:57:37 2016
Quant Method : C:\msdchem\2\METHODS\I-DEC22.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Dec 23 09:02:35 2016
Response via : Initial Calibration







TIC: I44677.D\data.ms

(10) 1,2-Dichlorotrifluoroethane

3.782min (+0.000) 10.92ug/L

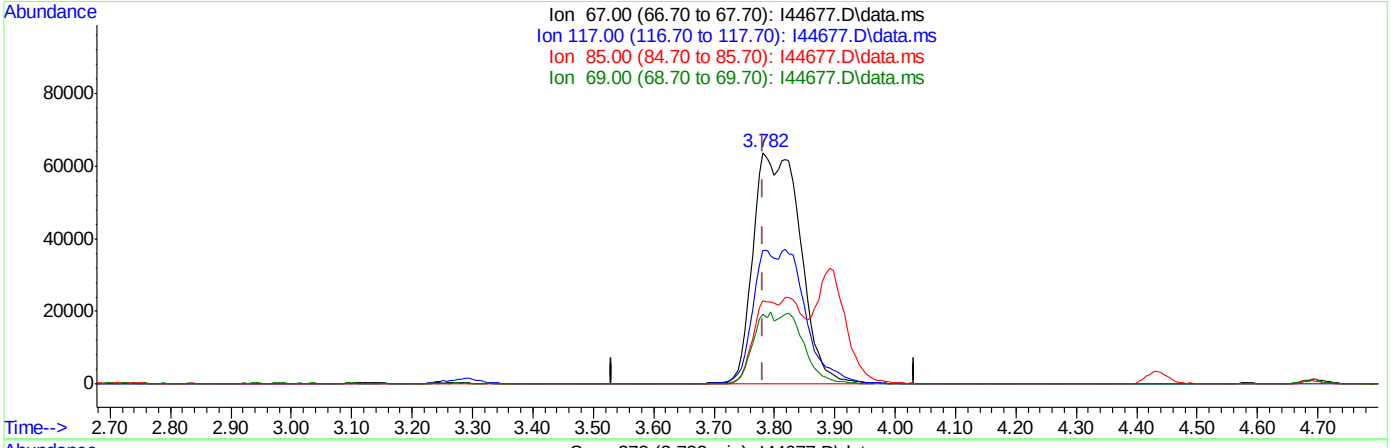
response 160944

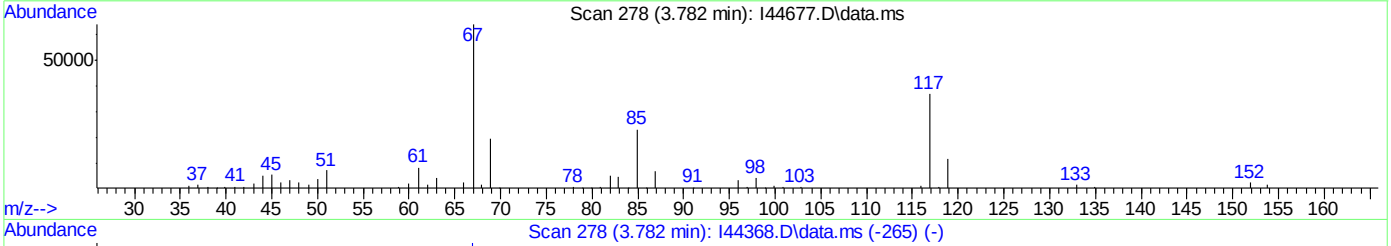
Ion	Exp%	Act%
67.00	100	100
117.00	57.70	57.66
85.00	36.80	36.22
69.00	29.70	30.41

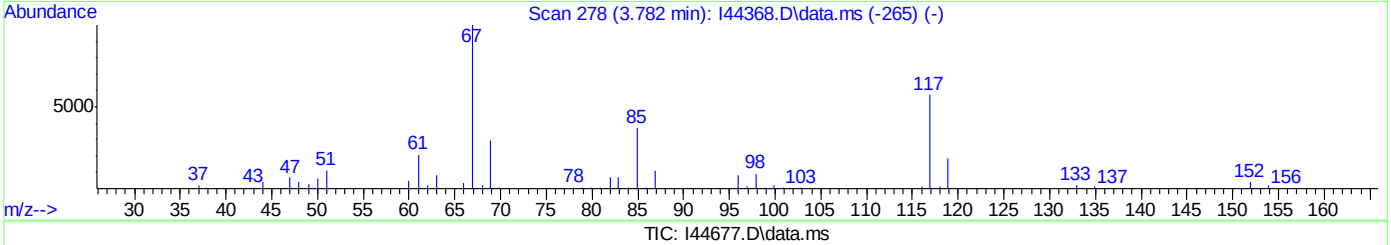
Quantitation Report (Qedit)

Data Path : C:\msdchem\2\DATA\123016\
Data File : I44677.D
Acq On : 30 Dec 2016 8:55 pm
Operator : WILFREDO
Sample : FA39742-16MSD MA Inst : MSVOA16
Misc : MS35976,VI1230,,,,,
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Dec 31 10:57:37 2016
Quant Method : C:\msdchem\2\METHODS\I-DEC22.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Dec 23 09:02:35 2016
Response via : Initial Calibration







TIC: I44677.D\data.ms

(10) 1,2-Dichlorotrifluoroethane

3.782min (+0.000) 23.43ug/L m

response 345523

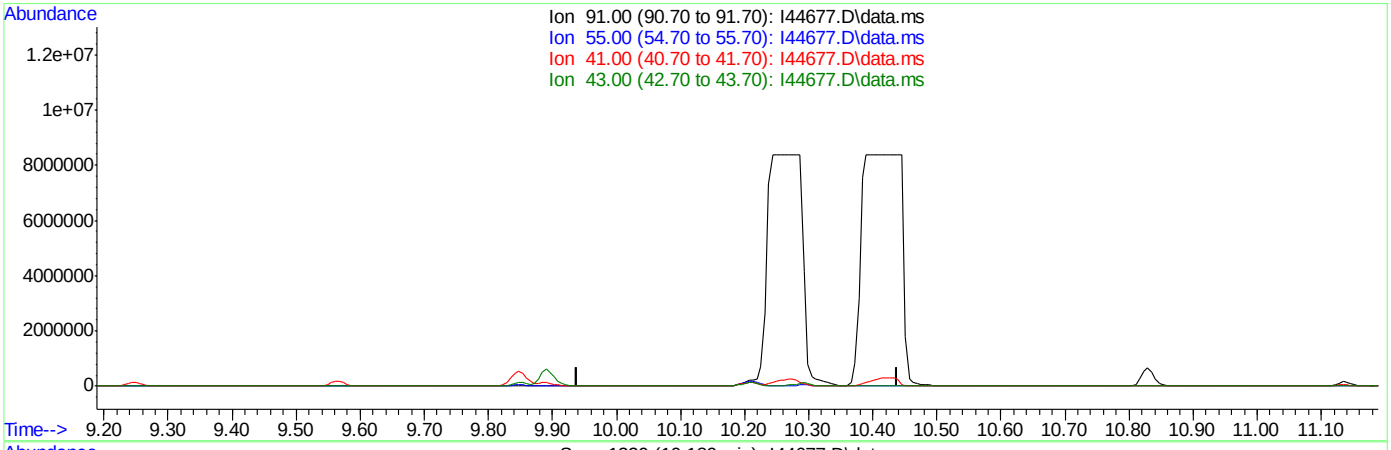
Ion	Exp%	Act%
67.00	100	100
117.00	57.70	57.66
85.00	36.80	36.22
69.00	29.70	30.41

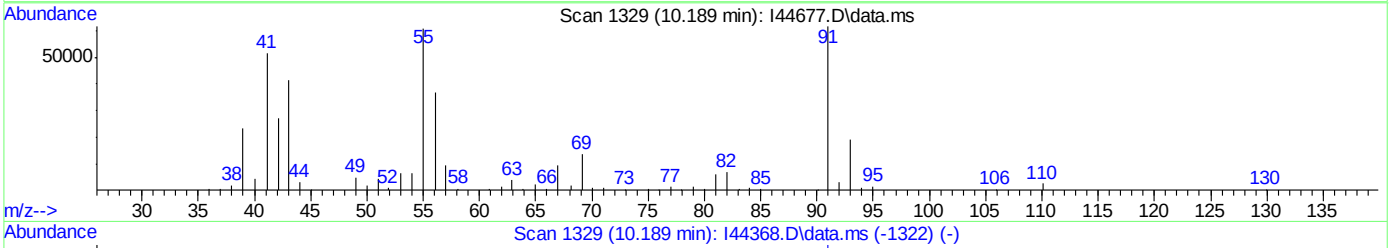
SGS ACCUTEST FA39742

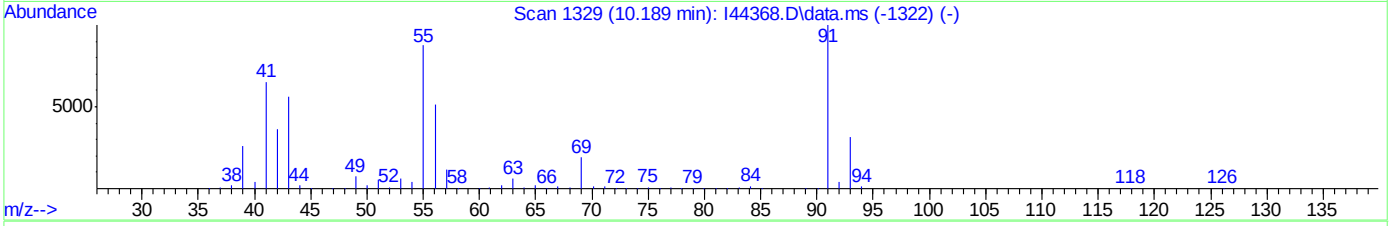
Quantitation Report (Qedit)

Data Path : C:\msdchem\2\DATA\123016\
Data File : I44677.D
Acq On : 30 Dec 2016 8:55 pm
Operator : WILFREDO
Sample : FA39742-16MSD MA Inst : MSVOA16
Misc : MS35976,VI1230,,,,,
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Dec 31 10:57:37 2016
Quant Method : C:\msdchem\2\METHODS\I-DEC22.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Dec 23 09:02:35 2016
Response via : Initial Calibration







TIC: I44677.D\data.ms

(69) 1-Chlorohexane

10.189min (-10.189) 0.00ug/L

response 0

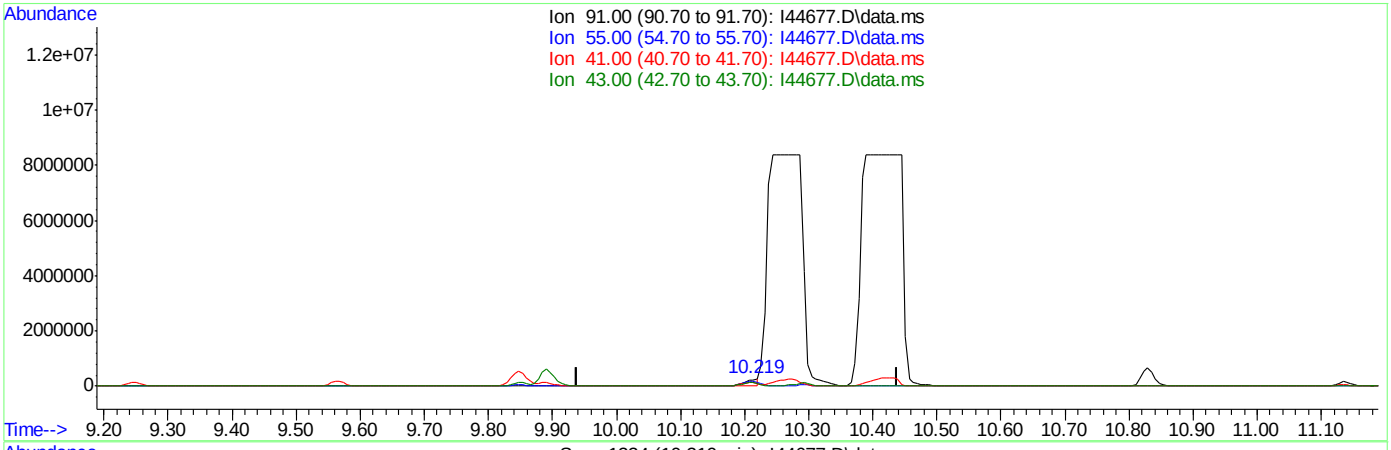
Ion	Exp%	Act%
91.00	100	0.00
55.00	87.40	0.00#
41.00	65.10	0.00#
43.00	56.30	0.00#

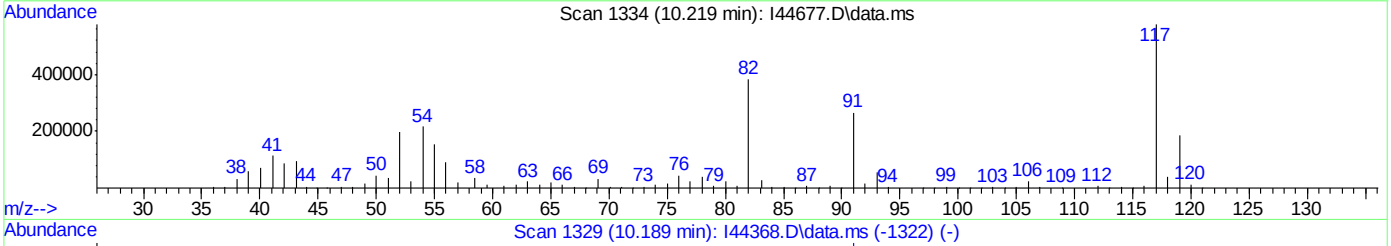
SGS ACCUTEST FA39742

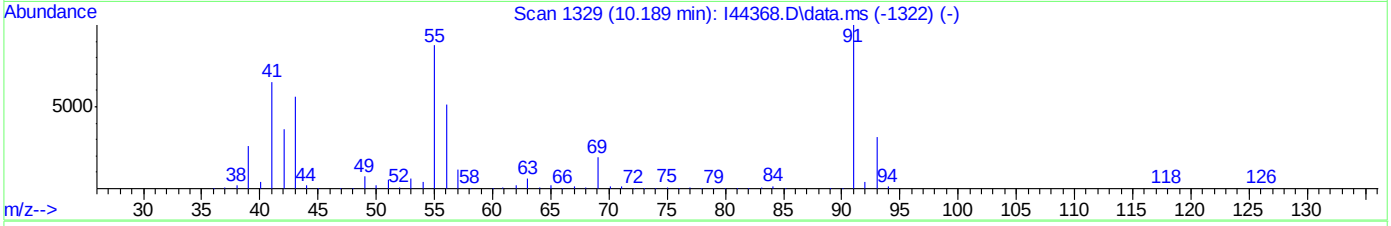
Quantitation Report (Qedit)

Data Path : C:\msdchem\2\DATA\123016\
Data File : I44677.D
Acq On : 30 Dec 2016 8:55 pm
Operator : WILFREDO
Sample : FA39742-16MSD MA Inst : MSVOA16
Misc : MS35976,VI1230,,,,,
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Dec 31 10:57:37 2016
Quant Method : C:\msdchem\2\METHODS\I-DEC22.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Dec 23 09:02:35 2016
Response via : Initial Calibration







TIC: I44677.D\data.ms

(69) 1-Chlorohexane

10.219min (+0.030) 25.59ug/L m

response 368487

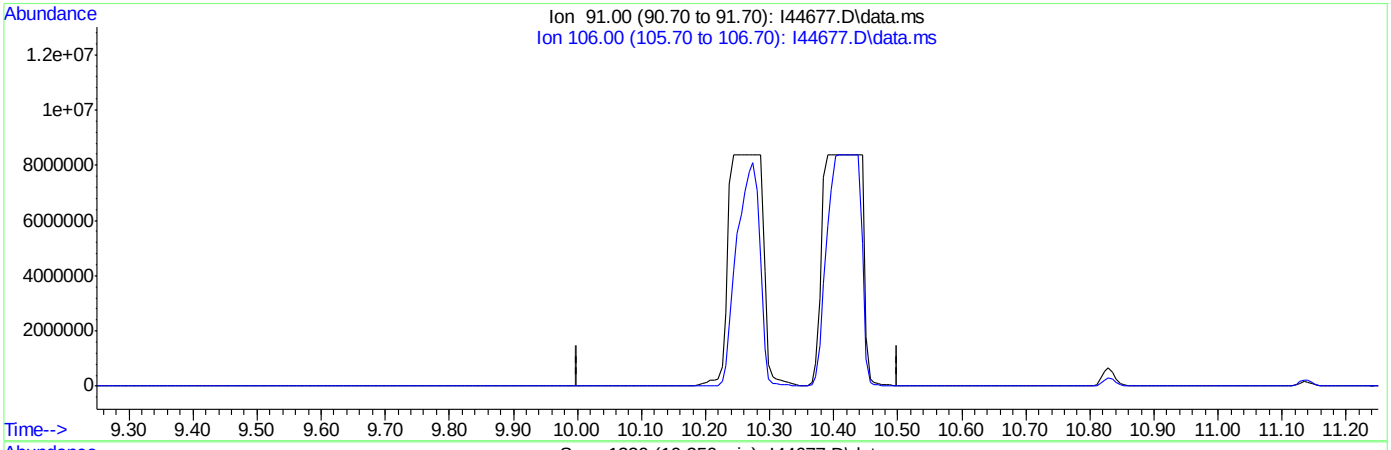
Ion	Exp%	Act%
91.00	100	100
55.00	87.40	58.35#
41.00	65.10	42.63#
43.00	56.30	36.42

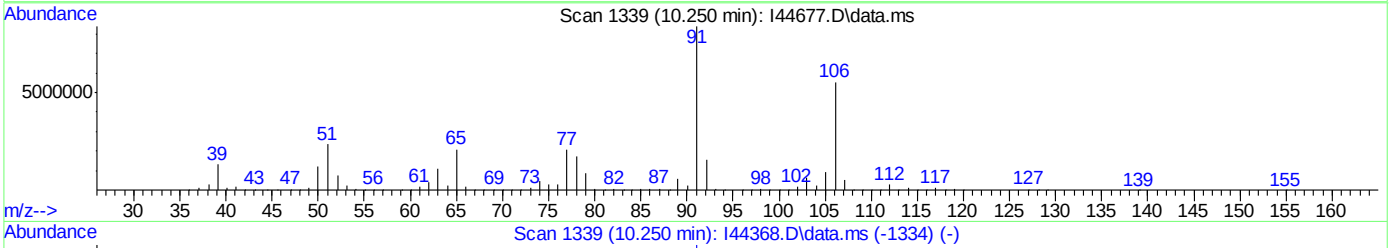
SGS ACCUTEST FA39742

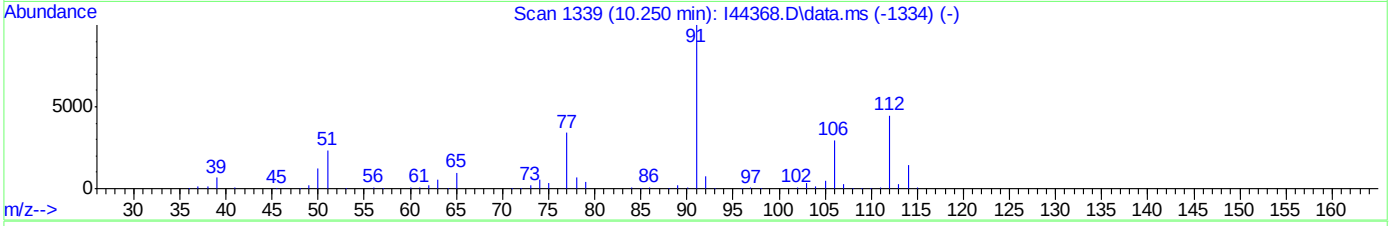
Quantitation Report (Qedit)

Data Path : C:\msdchem\2\DATA\123016\
Data File : I44677.D
Acq On : 30 Dec 2016 8:55 pm
Operator : WILFREDO
Sample : FA39742-16MSD MA Inst : MSVOA16
Misc : MS35976,VI1230,,,,,
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Dec 31 10:57:37 2016
Quant Method : C:\msdchem\2\METHODS\I-DEC22.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Dec 23 09:02:35 2016
Response via : Initial Calibration







TIC: I44677.D\data.ms

(70) Ethylbenzene (C)

10.250min (-10.250) 0.00ug/L

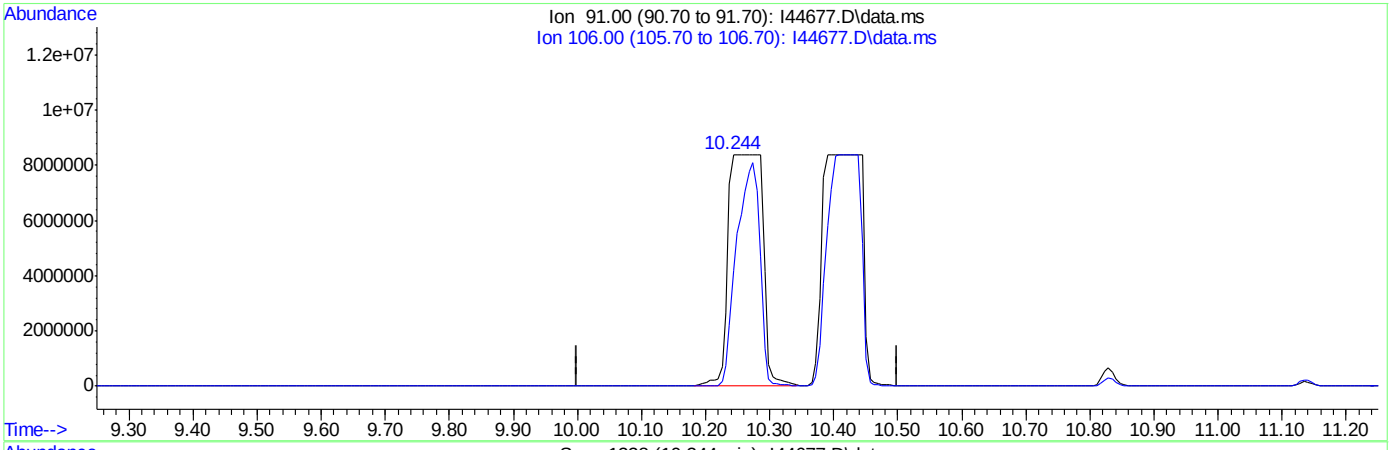
response 0

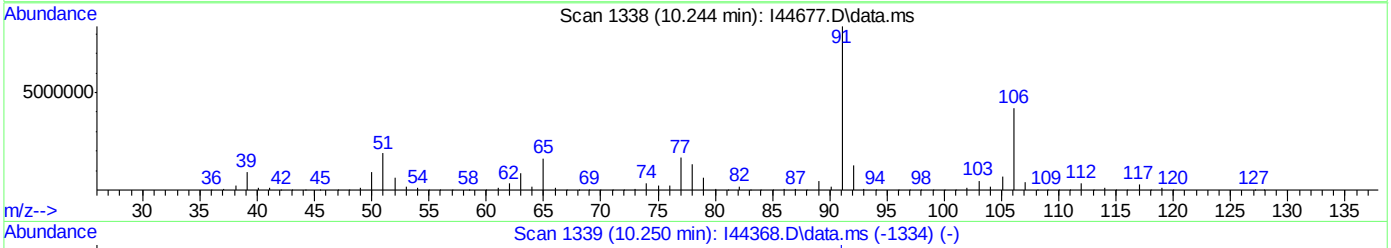
Ion	Exp%	Act%
91.00	100	0.00
106.00	29.50	0.00
0.00	0.00	0.00
0.00	0.00	0.00

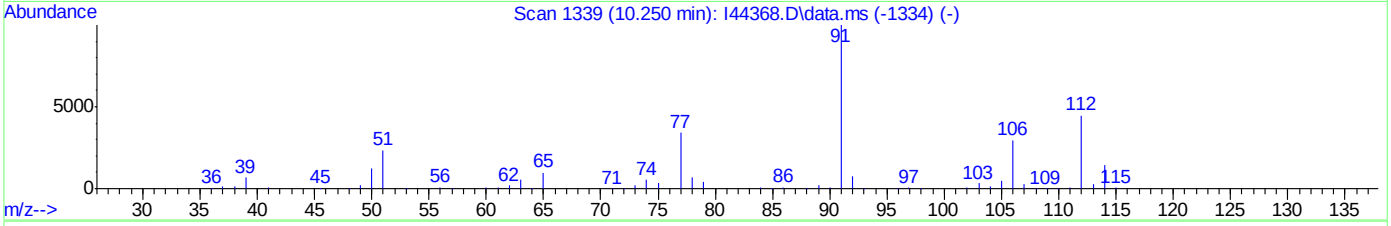
Quantitation Report (Qedit)

Data Path : C:\msdchem\2\DATA\123016\
Data File : I44677.D
Acq On : 30 Dec 2016 8:55 pm
Operator : WILFREDO
Sample : FA39742-16MSD MA Inst : MSVOA16
Misc : MS35976,VI1230,,,,,
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Dec 31 10:57:37 2016
Quant Method : C:\msdchem\2\METHODS\I-DEC22.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Dec 23 09:02:35 2016
Response via : Initial Calibration







TIC: I44677.D\data.ms

(70) Ethylbenzene (C)

10.244min (-0.006) 692.61ug/L m

response 31094587

Ion	Exp%	Act%
91.00	100	100
106.00	29.50	50.12
0.00	0.00	0.00
0.00	0.00	0.00

SGS ACCUTEST FA39742

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\2\DATA\123016\
Data File : I44677.D
Acq On    : 30 Dec 2016   8:55 pm
Operator  : WILFREDO
Sample    : FA39742-16MSD MA                          Inst     : MSVOA16
Misc      : MS35976,VI1230,,,,,
ALS Vial  : 26   Sample Multiplier: 1

Quant Time: Dec 31 10:57:37 2016
Quant Method : C:\msdchem\2\METHODS\I-DEC22.M
Quant Title  : SW-846 Method 5035A/8260B
QLast Update : Fri Dec 23 09:02:35 2016
Response via : Initial Calibration
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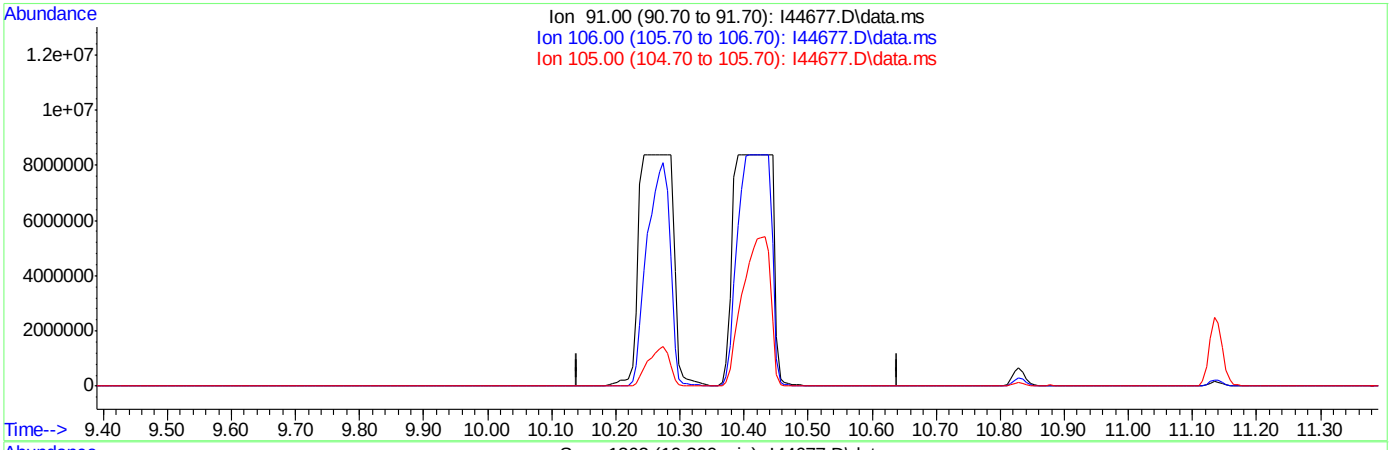
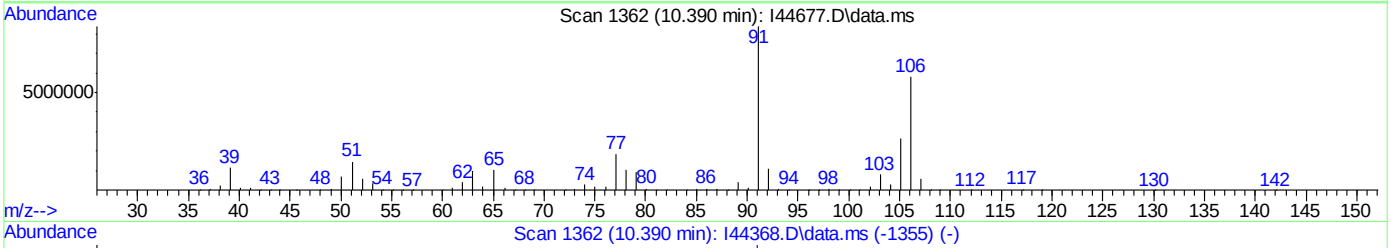
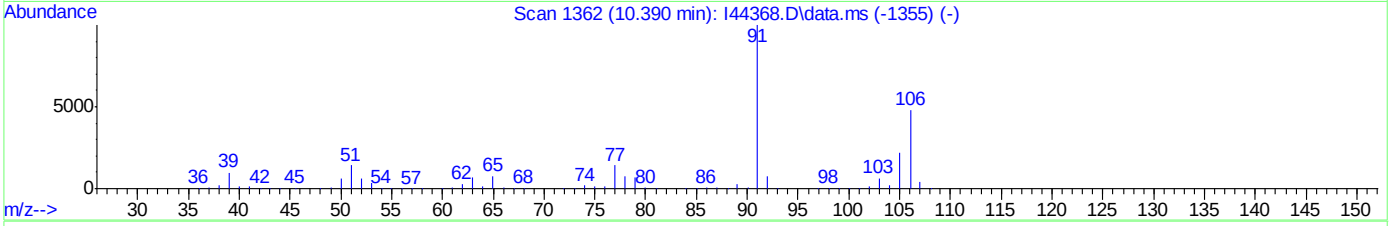






TIC: I44677.D\data.ms

(73) m,p-Xylene ( )

10.390min (-10.390) 0.00ug/L

response 0

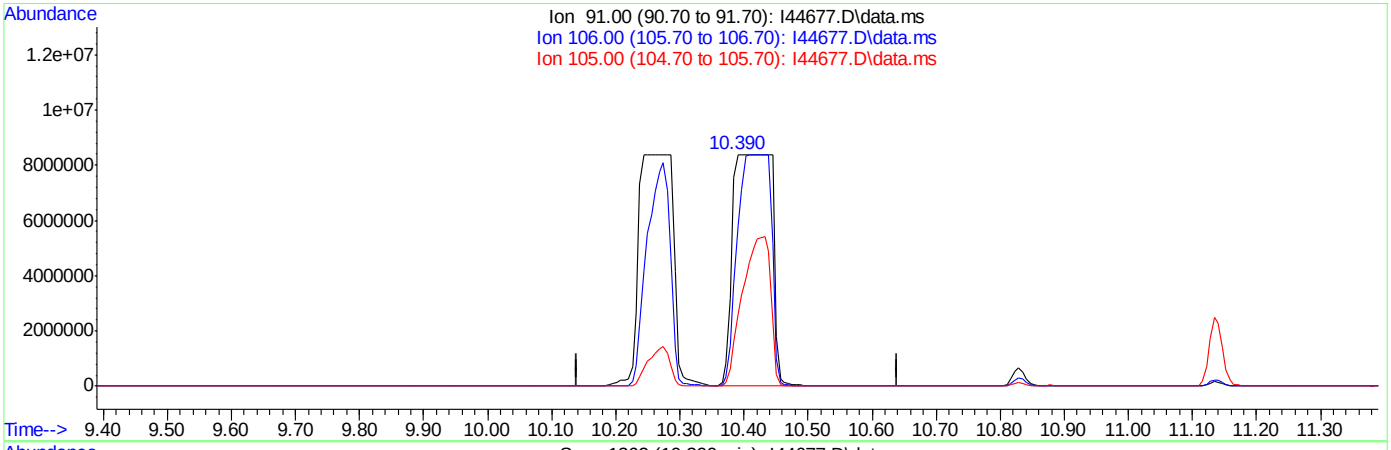
Ion	Exp%	Act%
91.00	100	0.00
106.00	48.00	0.00#
105.00	21.60	0.00
0.00	0.00	0.00

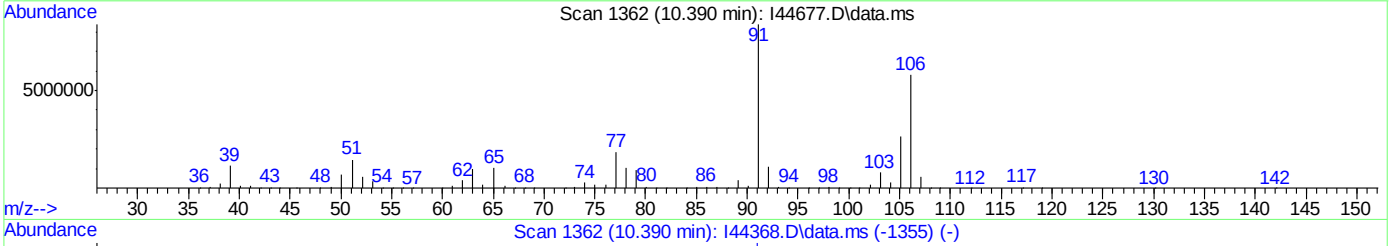
SGS ACCUTEST FA39742

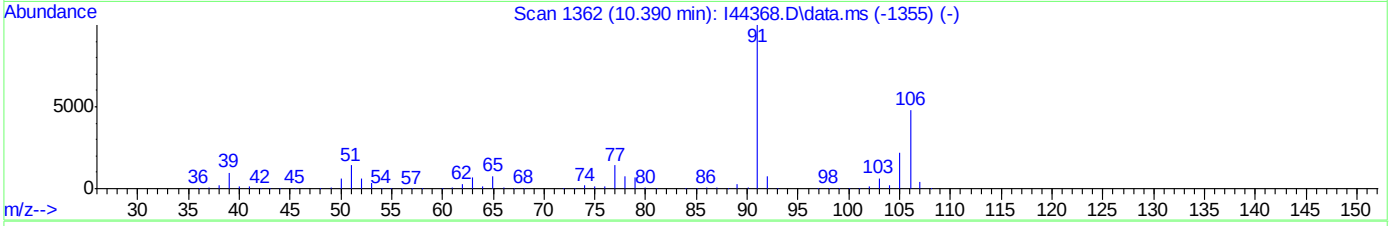
Quantitation Report (Qedit)

Data Path : C:\msdchem\2\DATA\123016\
Data File : I44677.D
Acq On : 30 Dec 2016 8:55 pm
Operator : WILFREDO
Sample : FA39742-16MSD MA Inst : MSVOA16
Misc : MS35976,VI1230,,,,,
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Dec 31 10:57:37 2016
Quant Method : C:\msdchem\2\METHODS\I-DEC22.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Dec 23 09:02:35 2016
Response via : Initial Calibration







TIC: I44677.D\data.ms

(73) m,p-Xylene ( )

10.390min (+0.000) 1040.80ug/L m

response 35863659

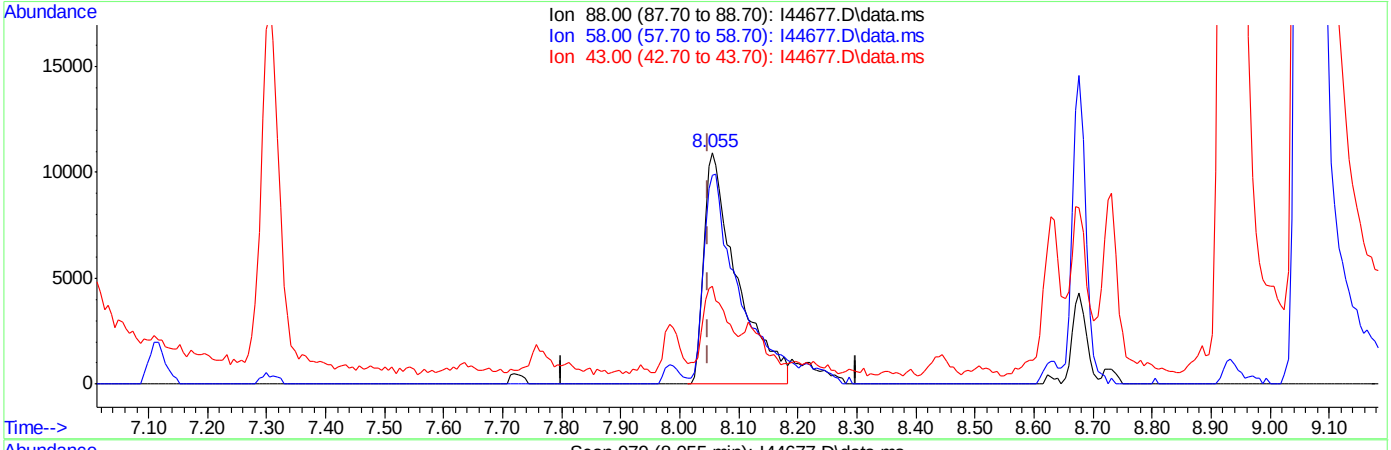
Ion	Exp%	Act%
91.00	100	100
106.00	48.00	69.15
105.00	21.60	31.27
0.00	0.00	0.00

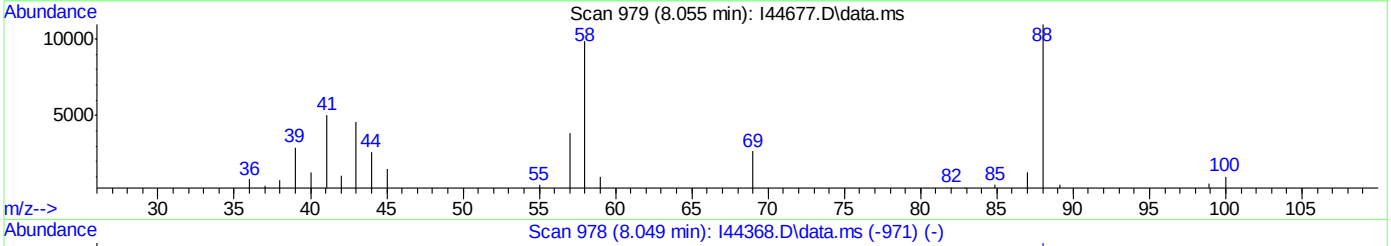
SGS ACCUTEST FA39742

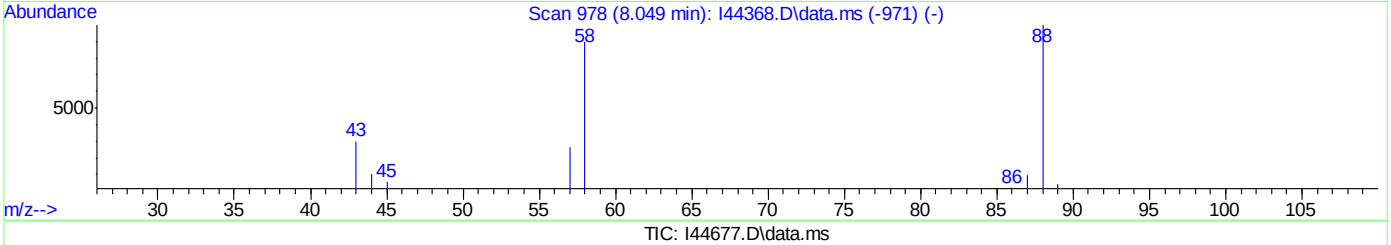
Quantitation Report (Qedit)

Data Path : C:\msdchem\2\DATA\123016\
Data File : I44677.D
Acq On : 30 Dec 2016 8:55 pm
Operator : WILFREDO
Sample : FA39742-16MSD MA Inst : MSVOA16
Misc : MS35976,VI1230,,,,,
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Dec 31 10:57:37 2016
Quant Method : C:\msdchem\2\METHODS\I-DEC22.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Dec 23 09:02:35 2016
Response via : Initial Calibration







TIC: I44677.D\data.ms

(112) 1,4-Dioxane

8.055min (+0.006) 473.35ug/L

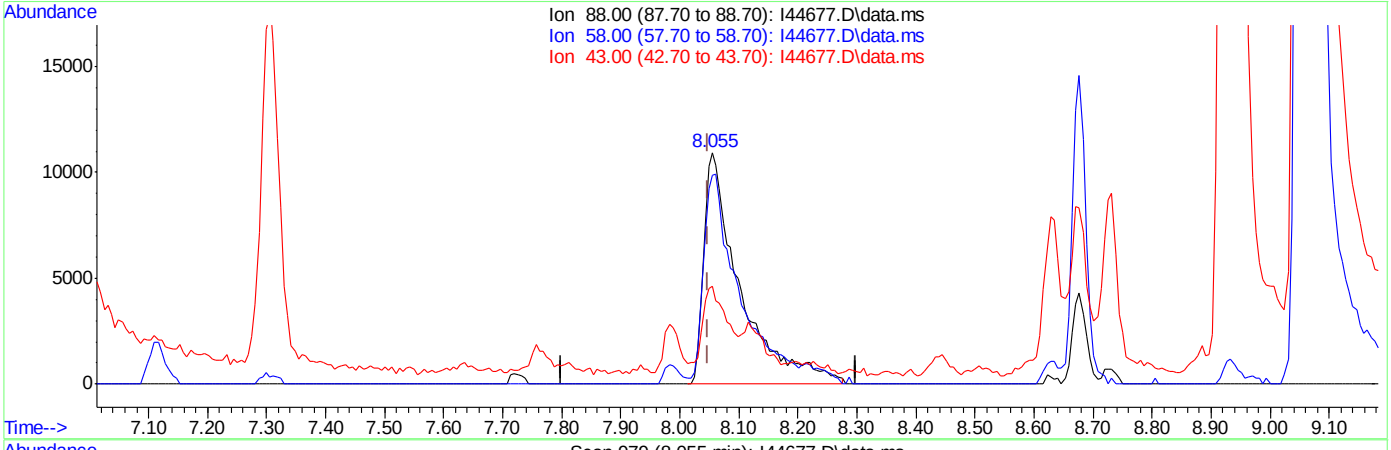
response 42659

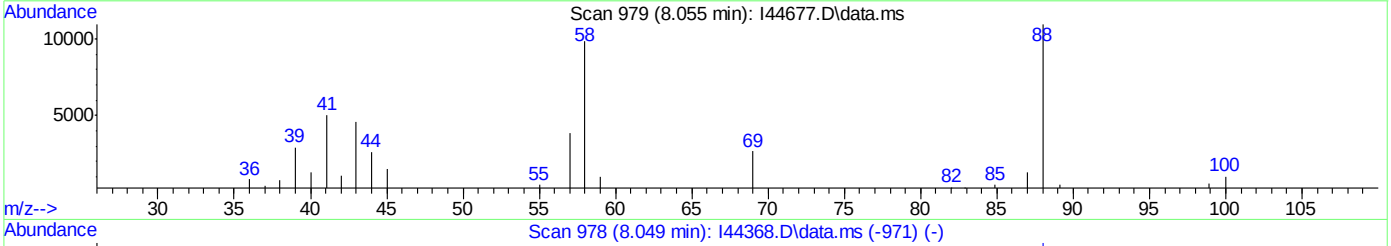
Ion	Exp%	Act%
88.00	100	100
58.00	90.10	87.28
43.00	33.30	33.59
0.00	0.00	0.00

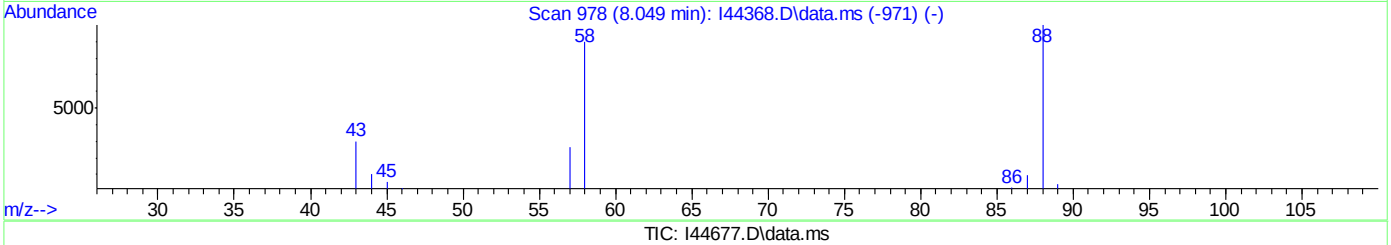
Quantitation Report (Qedit)

Data Path : C:\msdchem\2\DATA\123016\
Data File : I44677.D
Acq On : 30 Dec 2016 8:55 pm
Operator : WILFREDO
Sample : FA39742-16MSD MA Inst : MSVOA16
Misc : MS35976,VI1230,,,,,
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Dec 31 10:57:37 2016
Quant Method : C:\msdchem\2\METHODS\I-DEC22.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Dec 23 09:02:35 2016
Response via : Initial Calibration







TIC: I44677.D\data.ms

(112) 1,4-Dioxane

8.055min (+0.006) 516.64ug/L m

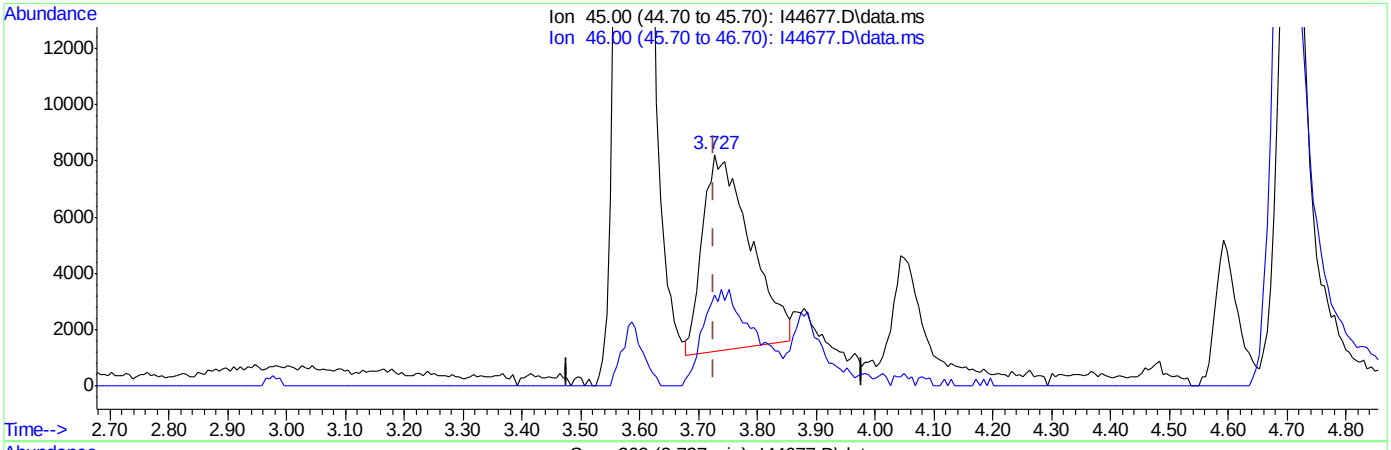
response 46560

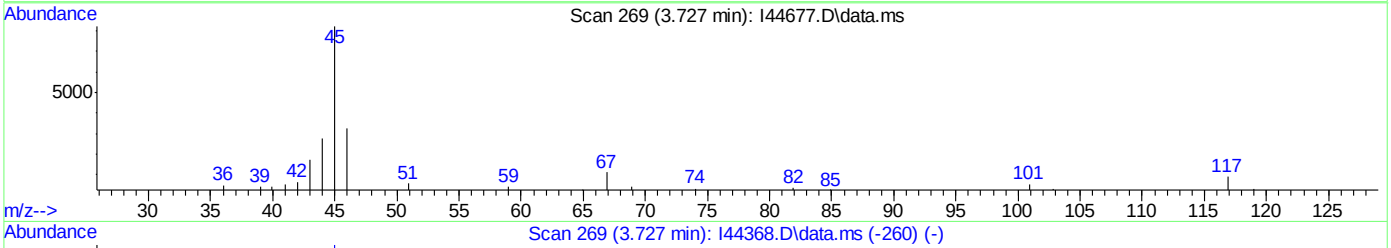
Ion	Exp%	Act%
88.00	100	100
58.00	90.10	89.96
43.00	33.30	42.25
0.00	0.00	0.00

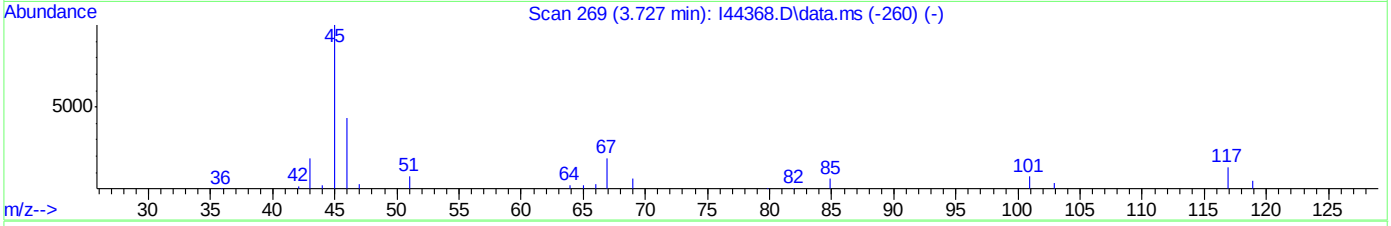
Quantitation Report (Qedit)

Data Path : C:\msdchem\2\DATA\123016\
Data File : I44677.D
Acq On : 30 Dec 2016 8:55 pm
Operator : WILFREDO
Sample : FA39742-16MSD MA Inst : MSVOA16
Misc : MS35976,VI1230,,,,,
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Dec 31 10:57:37 2016
Quant Method : C:\msdchem\2\METHODS\I-DEC22.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Dec 23 09:02:35 2016
Response via : Initial Calibration







TIC: I44677.D\data.ms

(107) Ethanol

3.727min (-0.000) 345.00ug/L

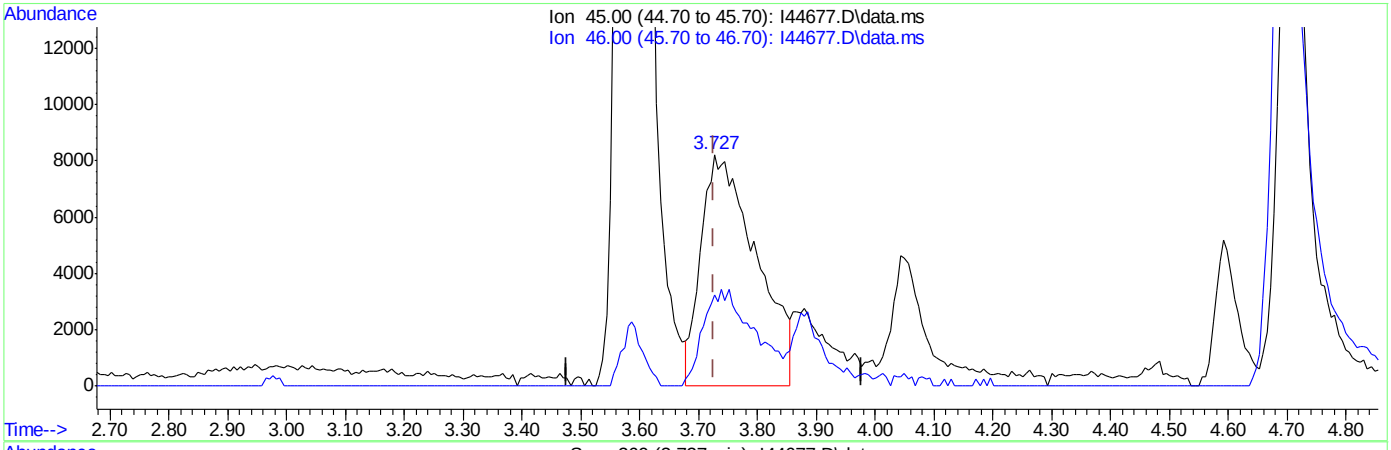
response 39061

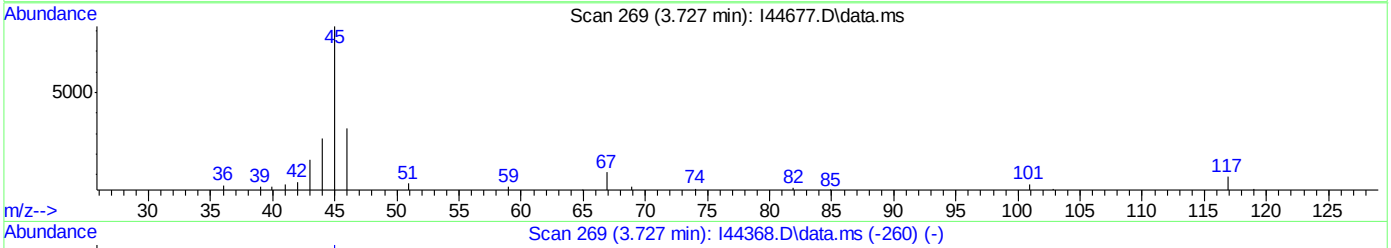
Ion	Exp%	Act%
45.00	100	100
46.00	37.40	45.25
0.00	0.00	0.00
0.00	0.00	0.00

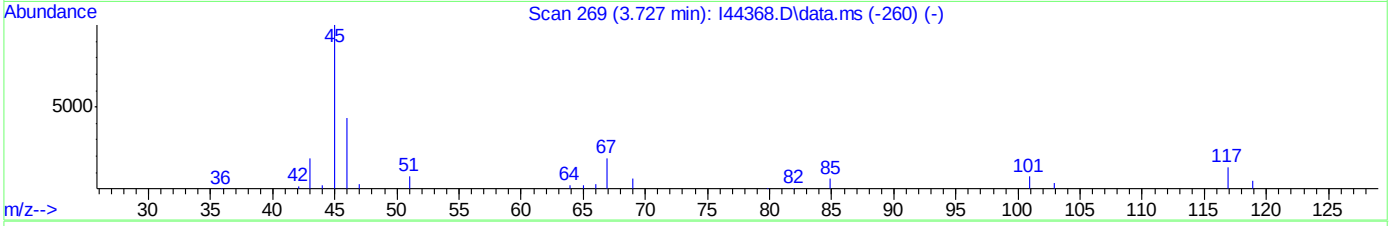
Quantitation Report (Qedit)

Data Path : C:\msdchem\2\DATA\123016\
Data File : I44677.D
Acq On : 30 Dec 2016 8:55 pm
Operator : WILFREDO
Sample : FA39742-16MSD MA Inst : MSVOA16
Misc : MS35976,VI1230,,,,,
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Dec 31 10:57:37 2016
Quant Method : C:\msdchem\2\METHODS\I-DEC22.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Dec 23 09:02:35 2016
Response via : Initial Calibration







TIC: I44677.D\data.ms

(107) Ethanol

3.727min (-0.000) 471.62ug/L m

response 53397

Ion	Exp%	Act%
45.00	100	100
46.00	37.40	39.53
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integrations APPROVED (compounds with "m" flag)
Juan Garcia
01/04/17 11:40

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\010317\
Data File : J0981939.D
Acq On : 3 Jan 2017 7:57 pm
Operator : darshnap
Sample : fa39907-16ms ma Inst : MSVOA6
Misc : MS35986,VJ5531,,,,,
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Jan 04 09:47:04 2017
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jan 03 09:58:33 2017
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.734	96	540182	50.00	ug/L	0.00
56) Chlorobenzene-d5	10.824	117	363171	50.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	13.186	152	201579	50.00	ug/L	0.00
106) Tert Butyl Alcohol-d10	5.272	65	74692	250.00	ug/L	0.00
System Monitoring Compounds						
36) Dibromofluoromethane	6.900	113	124703	48.90	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 97.80%			
46) 1,2-Dichloroethane-d4	7.458	65	185441	54.07	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 108.14%			
57) Toluene-d8	9.279	98	499138	51.75	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 103.50%			
79) 4-Bromofluorobenzene	12.035	95	207653	51.64	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 103.28%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.657	85	152136	25.89	ug/L	84
3) Chloromethane	2.863	50	206138	24.22	ug/L	95
4) Vinyl Chloride	3.004	62	108597	21.01	ug/L	94
5) 1,3-Butadiene	3.016	54	18591	5.69	ug/L	88
6) Bromomethane	3.439	94	42744	14.92	ug/L	89
7) Chloroethane	3.592	64	40684	19.98	ug/L	91
8) Trichlorofluoromethane	3.797	101	145657m	23.18	ug/L	
9) Ethyl Ether	4.103	59	125753	27.44	ug/L	97
10) 1,2-Dichlorotrifluoroe...	4.332	67	175005	30.88	ug/L	96
11) 1,1-Dichloroethene	4.379	61	253821	32.20	ug/L	91
12) Freon 113	4.438	101	134605	28.08	ug/L	90
13) Carbon Disulfide	4.449	76	415853	25.27	ug/L	99
14) Iodomethane	4.561	142	198132	23.66	ug/L	95
15) Allyl chloride	4.902	41	261509	27.68	ug/L	97
16) Methylene Chloride	5.025	49	251449	29.90	ug/L	90
17) Acetone	5.049	58	61027	140.40	ug/L #	74
18) Methyl acetate	5.172	74	84444	123.42	ug/L #	74
19) trans-1,2-Dichloroethene	5.202	61	244104	31.88	ug/L	95
20) Hexane	5.272	56	159913	32.37	ug/L	93
21) Methyl Tert Butyl Ether	5.313	73	531261	34.95	ug/L	95
22) Acetonitrile	5.572	40	100009	273.90	ug/L	96
23) Di-isopropyl ether	5.695	45	634032	31.05	ug/L	99
24) Chloroprene	5.848	53	241161	27.41	ug/L	92
25) 1,1-Dichloroethane	5.871	63	307133	33.53	ug/L	95
26) Acrylonitrile	5.907	53	258580	135.17	ug/L	98
27) ETBE	6.089	59	516807	27.43	ug/L	98
28) Vinyl acetate	6.083	43	1472946	119.13	ug/L	99
29) cis-1,2-Dichloroethene	6.447	96	159003	28.11	ug/L	91
30) 2,2-Dichloropropane	6.582	77	203867	25.90	ug/L	98
31) Bromochloromethane	6.665	128	64833	24.99	ug/L #	78
32) Cyclohexane	6.712	56	320626	31.19	ug/L	94
33) Chloroform	6.717	83	257896	27.75	ug/L	94
34) Ethyl acetate	6.782	43	600165	126.92	ug/L	96

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\010317\
Data File : J0981939.D
Acq On : 3 Jan 2017 7:57 pm
Operator : darshnap
Sample : fa39907-16ms ma Inst : MSVOA6
Misc : MS35986,VJ5531,,,,,
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Jan 04 09:47:04 2017
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jan 03 09:58:33 2017
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
35)	Tetrahydrofuran	6.894	42	50351	32.33	ug/L		94
37)	Carbon Tetrachloride	6.911	117	178086m	27.70	ug/L		
38)	1,1,1-Trichloroethane	6.970	97	222079	27.31	ug/L		97
39)	2-Butanone	6.999	43	358041	157.95	ug/L		93
40)	1,1-Dichloropropene	7.082	75	203327	30.93	ug/L		86
42)	Propionitrile	7.311	54	200122	283.27	ug/L		98
43)	Methacrylonitrile	7.334	41	965445	318.04	ug/L		98
44)	Benzene	7.334	78	577964	32.69	ug/L		96
45)	TAME	7.411	73	428768	27.89	ug/L		97
47)	1,2-Dichloroethane	7.522	62	220831	30.99	ug/L		98
48)	Trichloroethene	7.910	95	152714	30.29	ug/L		97
49)	Methylcyclohexane	7.934	83	271753	30.11	ug/L		90
50)	Dibromomethane	8.339	93	85655	28.04	ug/L		98
51)	1,2-Dichloropropane	8.427	63	171900	32.07	ug/L		92
52)	Bromodichloromethane	8.474	83	181382	27.13	ug/L		95
53)	Methyl methacrylate	8.568	41	147117	29.50	ug/L		89
55)	cis-1,3-Dichloropropene	9.091	75	233301	28.46	ug/L		95
58)	Toluene	9.332	91	601596	33.43	ug/L		99
59)	2-Nitropropane	9.532	41	187767	158.22	ug/L		95
60)	4-Methyl-2-pentanone	9.649	43	831506	168.75	ug/L		94
61)	trans-1,3-Dichloropropene	9.714	75	211153	31.96	ug/L		93
62)	Tetrachloroethene	9.737	166	137281	25.05	ug/L		94
63)	Ethyl methacrylate	9.820	69	168316	26.92	ug/L		86
64)	1,1,2-Trichloroethane	9.878	83	108456	32.57	ug/L		90
65)	Dibromochloromethane	10.078	129	110325	24.70	ug/L		91
66)	1,3-Dichloropropane	10.161	76	225873	30.64	ug/L		93
67)	1,2-Dibromoethane	10.343	107	123721	29.78	ug/L		98
68)	2-hexanone	10.466	43	564439	172.81	ug/L		92
69)	1-Chlorohexane	10.777	91	210918	31.55	ug/L		90
70)	Ethylbenzene	10.842	91	693072	34.34	ug/L		96
71)	Chlorobenzene	10.842	112	363315	29.35	ug/L		88
72)	1,1,1,2-Tetrachloroethane	10.895	131	134340	28.03	ug/L		97
73)	m,p-Xylene	10.977	91	1073996	63.70	ug/L		97
74)	o-Xylene	11.418	91	583369	31.52	ug/L		95
75)	Styrene	11.465	104	369077	26.71	ug/L		94
76)	Bromoform	11.524	173	64196	20.50	ug/L		97
77)	Isopropylbenzene	11.723	105	991686	46.00	ug/L		99
80)	cis-1,4-Dichloro-2-butene	12.070	53	34224	21.19	ug/L	#	82
81)	n-Propylbenzene	12.141	91	1008417	37.69	ug/L		95
82)	Bromobenzene	12.164	156	159110	28.52	ug/L		98
83)	1,1,2,2-Tetrachloroethane	12.199	83	174579	29.85	ug/L		97
84)	1,3,5-Trimethylbenzene	12.323	105	556461	31.37	ug/L		98
85)	2-Chlorotoluene	12.329	91	571219	31.38	ug/L		96
86)	trans-1,4-Dichloro-2-B...	12.381	53	39132	22.00	ug/L	#	78
87)	1,2,3-Trichloropropane	12.358	110	46943	31.09	ug/L		87
88)	Cyclohexanone	12.428	55	28268	121.52	ug/L		93
89)	4-Chlorotoluene	12.499	91	545282	31.39	ug/L		98
90)	a-Methyl Styrene	12.734	118	5094	0.46	ug/L	#	1
91)	tert-Butylbenzene	12.664	91	373332	32.29	ug/L		91
92)	1,2,4-Trimethylbenzene	12.734	105	547584	31.16	ug/L		96

SGS ACCUTEST FA39742

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\010317\
Data File : J0981939.D
Acq On : 3 Jan 2017 7:57 pm
Operator : darshnap
Sample : fa39907-16ms ma Inst : MSVOA6
Misc : MS35986,VJ5531,,,,,
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Jan 04 09:47:04 2017
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jan 03 09:58:33 2017
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
93)	Pentachloroethane	12.716	167	90798	26.37	ug/L		95
94)	sec-Butylbenzene	12.846	105	828416	34.43	ug/L		95
95)	4-Isopropyltoluene	12.981	119	634517	33.46	ug/L		96
96)	1,3-Dichlorobenzene	13.116	146	330790	29.12	ug/L		96
97)	1,4-Dichlorobenzene	13.198	146	332474	28.20	ug/L		97
98)	n-Butylbenzene	13.410	92	405736	35.06	ug/L		94
99)	Benzyl Chloride	13.427	126	49479	20.66	ug/L	#	40
100)	1,2-Dichlorobenzene	13.627	146	326404	28.53	ug/L		97
101)	1,2-Dibromo-3-Chloropr...	14.362	75	32440	28.02	ug/L		86
102)	Hexachlorobutadiene	14.908	225	114948	23.83	ug/L		94
103)	1,2,4-Trichlorobenzene	14.955	180	226933	27.97	ug/L		98
104)	Naphthalene	15.237	128	562425	34.41	ug/L		99
105)	1,2,3-Trichlorobenzene	15.407	180	212098	27.81	ug/L		94
107)	Ethanol	4.267	45	35631m	629.50	ug/L		
108)	acrolein	4.737	56	111635	107.51	ug/L		99
109)	Tert Butyl Alcohol	5.360	59	288635	474.42	ug/L		93
110)	tert Amyl alcohol	7.552	59	125519	255.42	ug/L		93
111)	Isobutyl alcohol	7.434	42	108889	548.54	ug/L	#	85
112)	1,4-Dioxane	8.650	88	401897	7696.01	ug/L		94
113)	3,3-Dimethyl-1-butanol	10.413	57	679857	1332.84	ug/L		94

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

7.4.3

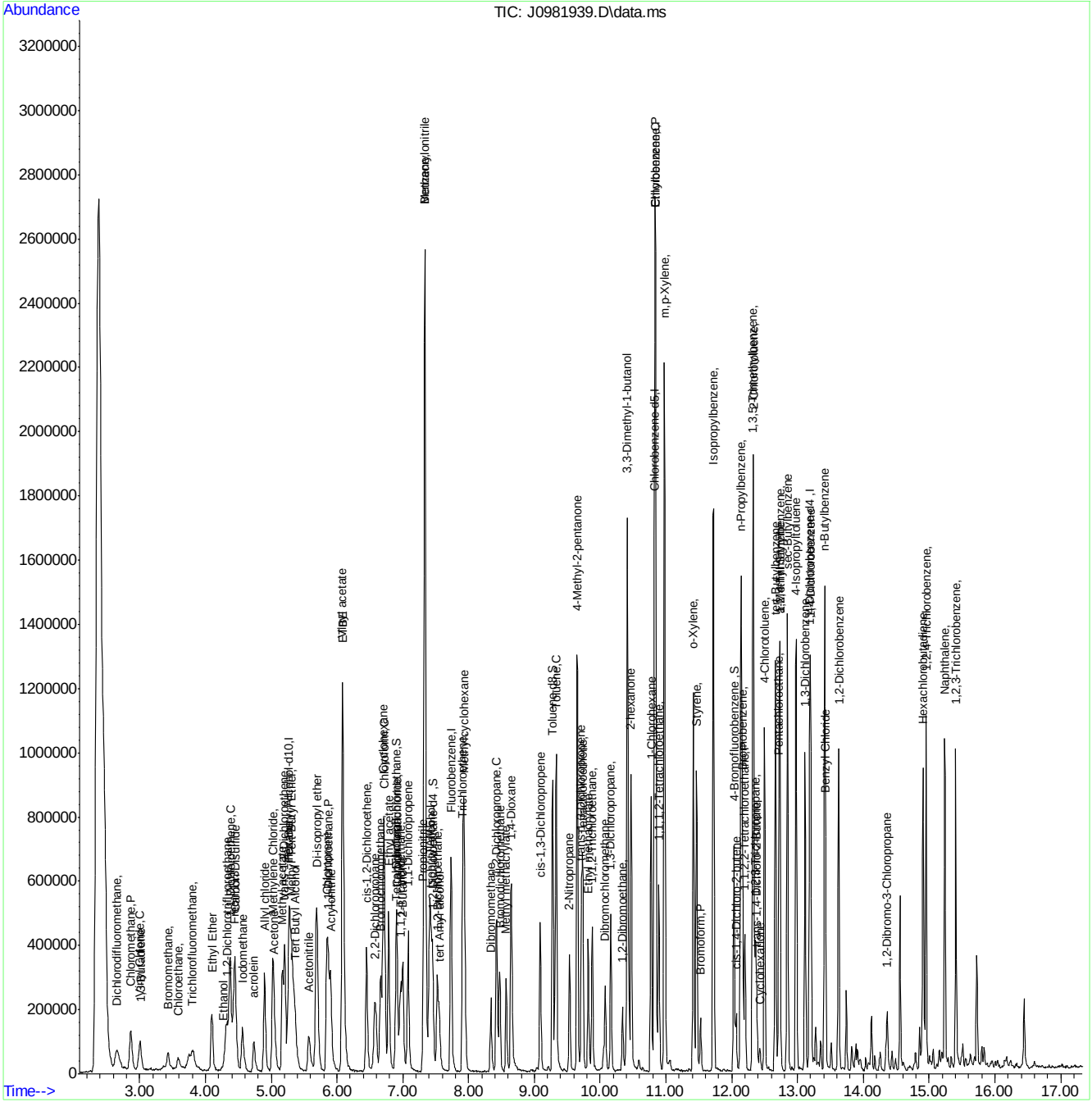
7

SGS ACCUTEST FA39742

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\010317\
Data File : J0981939.D
Acq On : 3 Jan 2017 7:57 pm
Operator : darshnap
Sample : fa39907-16ms ma Inst : MSVOA6
Misc : MS35986,VJ5531,,,,,
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Jan 04 09:47:04 2017
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jan 03 09:58:33 2017
Response via : Initial Calibration



MSJ123016.M Wed Jan 04 09:53:26 2017 Page: 4

SGS ACCUTEST FA39742

Manual Integration Approval Summary

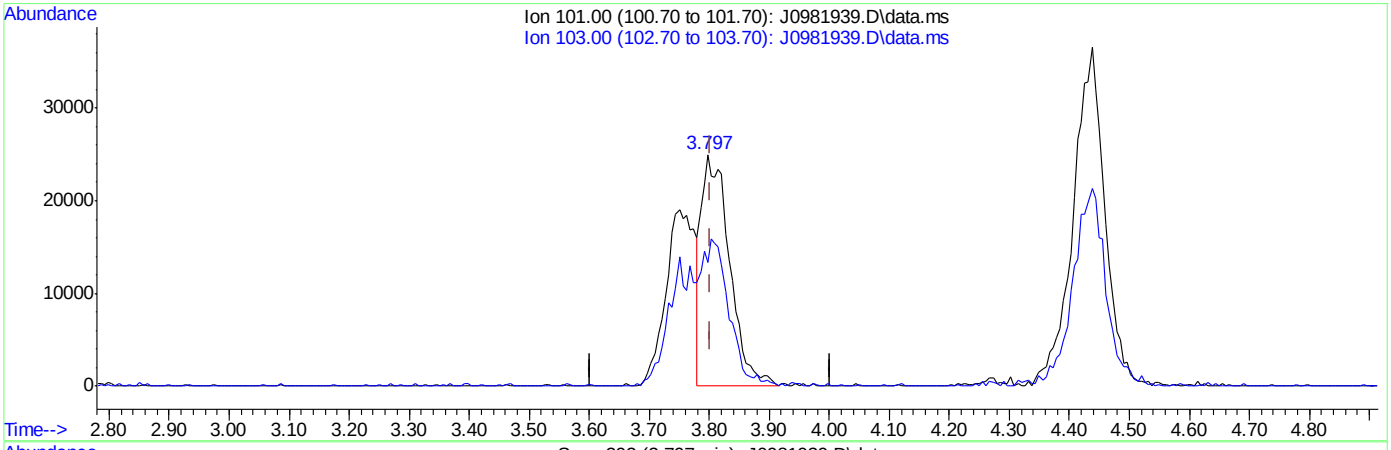
Sample Number:	FA39907-16MS	**Method:**	SW846 8260C
Lab FileID:	J0981939.D	**Analyst approved:**	01/04/17 10:37 Darshna Patel
Injection Time:	01/03/17 19:57	**Supervisor approved:**	01/04/17 11:40 Juan Garcia

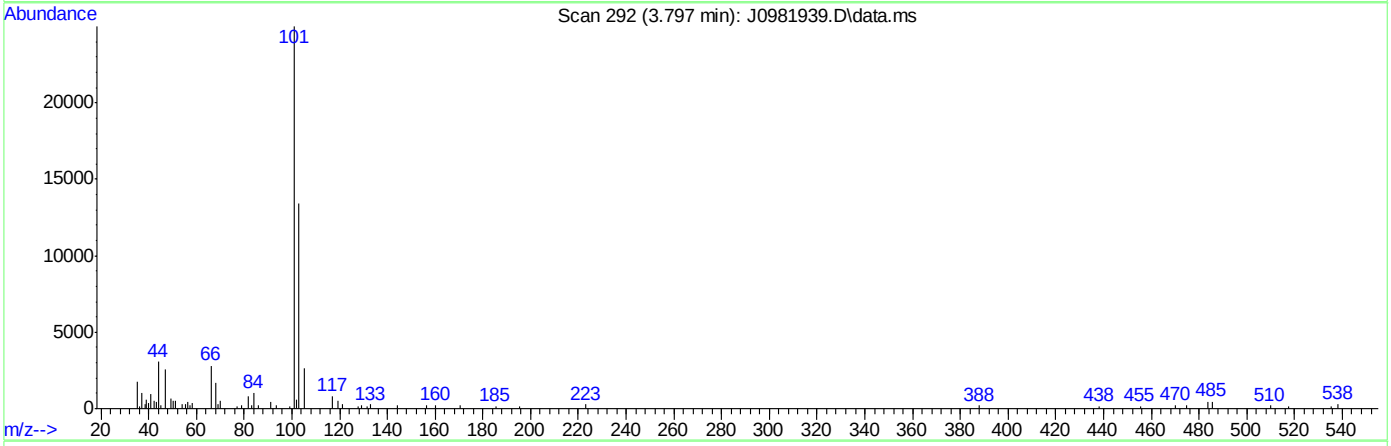
Parameter	CAS	Sig#	R.T. (min.)	Reason
Trichlorofluoromethane	75-69-4		3.80	Split peak
Ethyl Alcohol	64-17-5		4.27	Poor instrument integration
Carbon Tetrachloride	56-23-5		6.91	Overlapping peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\010317\
Data File : J0981939.D
Acq On : 3 Jan 2017 7:57 pm
Operator : darshnap
Sample : fa39907-16ms ma Inst : MSVOA6
Misc : MS35986,VJ5531,,,,,
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Jan 04 07:48:40 2017
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jan 03 09:58:33 2017
Response via : Initial Calibration





(8) Trichlorofluoromethane ( )

3.797min (-0.006) 12.87ug/L

response 80854

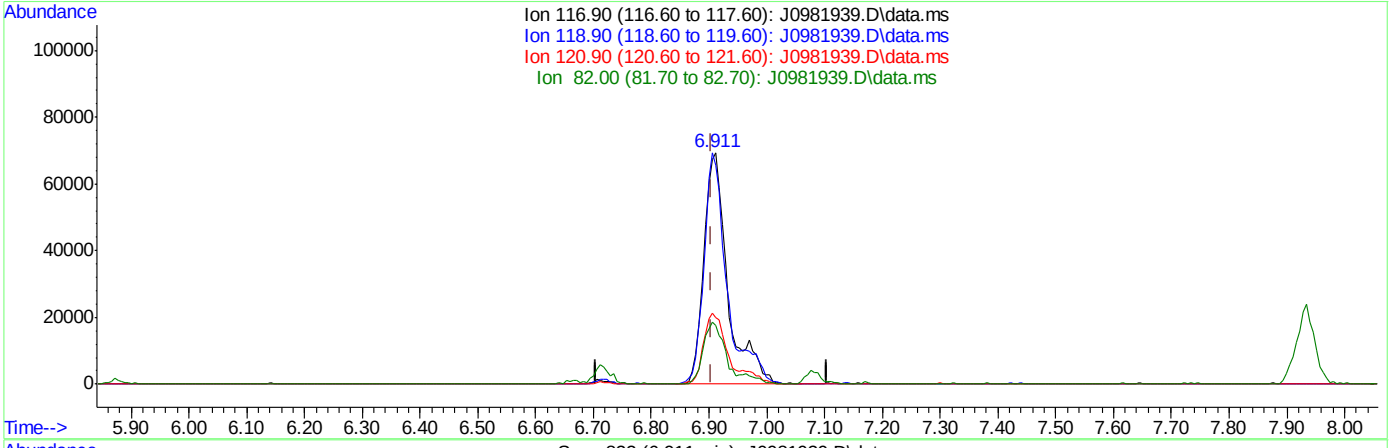
Ion	Exp%	Act%
101.00	100	100
103.00	55.20	53.63
0.00	0.00	0.00
0.00	0.00	0.00

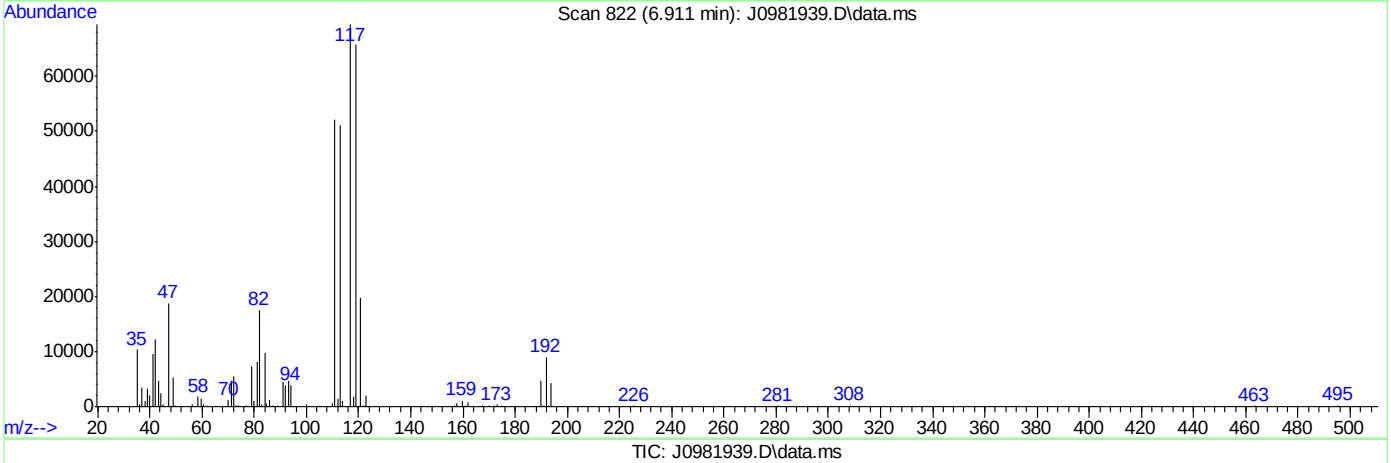
SGS ACCUTEST FA39742

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\010317\
Data File : J0981939.D
Acq On : 3 Jan 2017 7:57 pm
Operator : darshnap
Sample : fa39907-16ms ma Inst : MSVOA6
Misc : MS35986,VJ5531,,,,,
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Jan 04 07:48:40 2017
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jan 03 09:58:33 2017
Response via : Initial Calibration





TIC: J0981939.D\data.ms

(37) Carbon Tetrachloride ( )

6.911min (+0.006) 31.59ug/L

response 203071

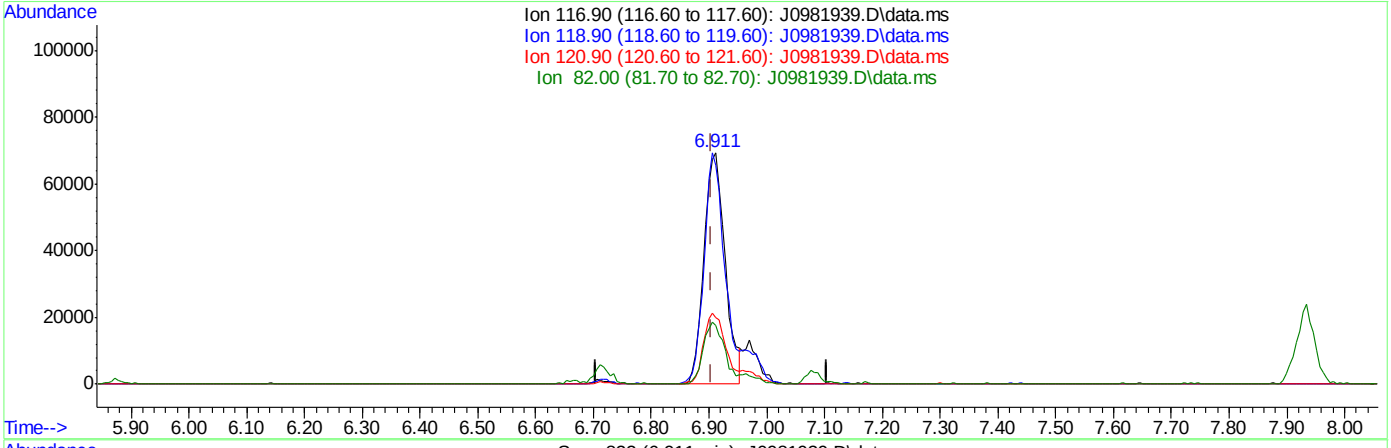
Ion	Exp%	Act%
116.90	100	100
118.90	91.30	94.70
120.90	30.80	28.56
82.00	23.30	25.36

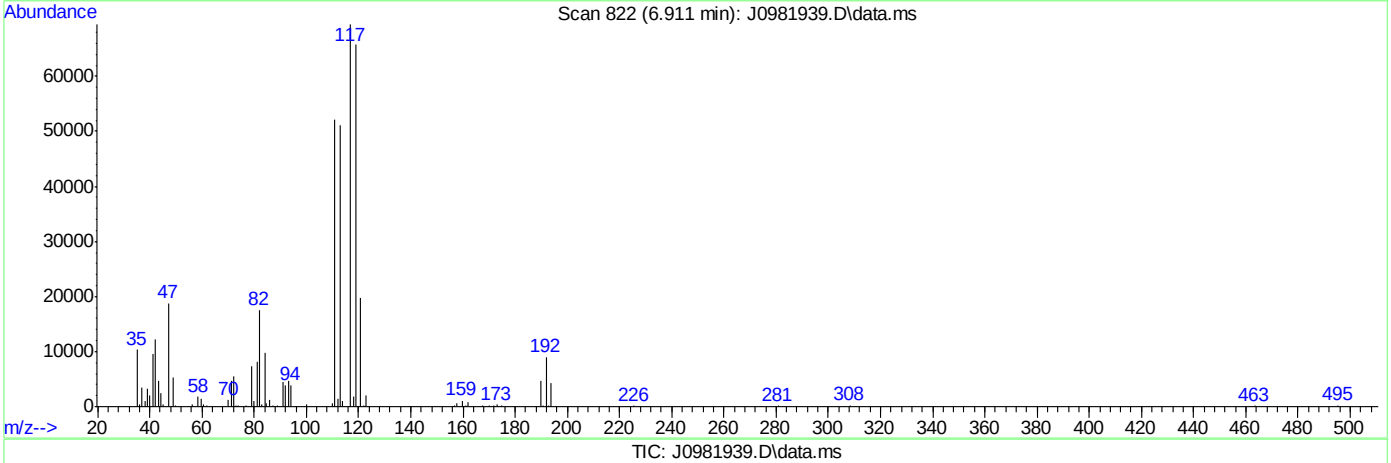
SGS ACCUTEST FA39742

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\010317\
Data File : J0981939.D
Acq On : 3 Jan 2017 7:57 pm
Operator : darshnap
Sample : fa39907-16ms ma Inst : MSVOA6
Misc : MS35986,VJ5531,,,,,
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Jan 04 07:48:40 2017
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jan 03 09:58:33 2017
Response via : Initial Calibration





TIC: J0981939.D\data.ms

(37) Carbon Tetrachloride ( )

6.911min (+0.006) 27.70ug/L m

response 178086

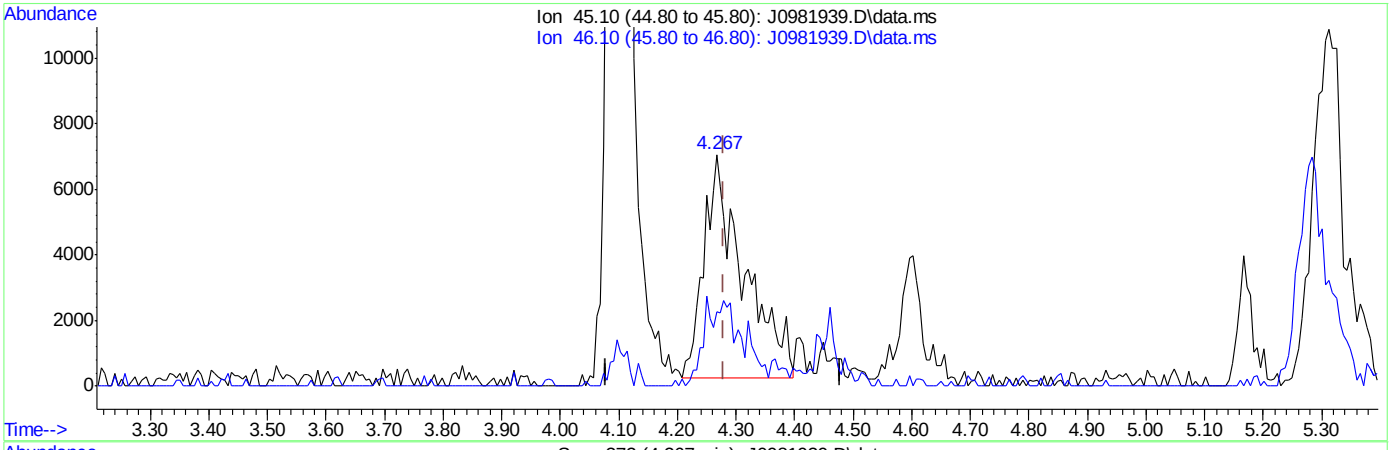
Ion	Exp%	Act%
116.90	100	100
118.90	91.30	94.70
120.90	30.80	28.56
82.00	23.30	25.36

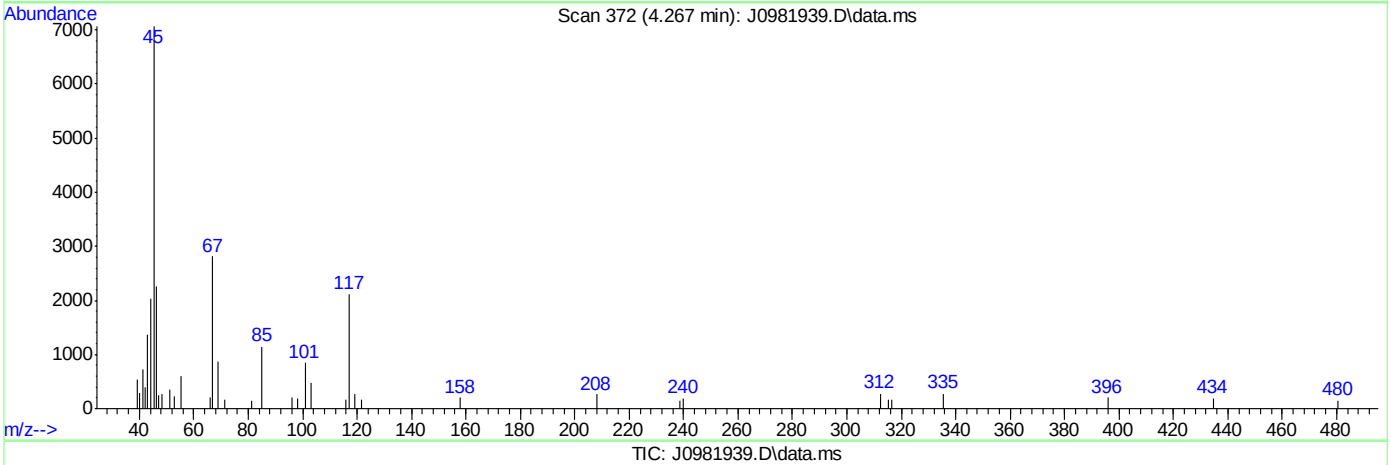
SGS ACCUTEST FA39742

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\010317\
Data File : J0981939.D
Acq On : 3 Jan 2017 7:57 pm
Operator : darshnap
Sample : fa39907-16ms ma Inst : MSVOA6
Misc : MS35986,VJ5531,,,,,
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Jan 04 07:48:40 2017
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jan 03 09:58:33 2017
Response via : Initial Calibration





TIC: J0981939.D\data.ms

(107) Ethanol

4.267min (-0.012) 569.60ug/L

response 32239

Ion	Exp%	Act%
45.10	100	100
46.10	41.60	29.92
0.00	0.00	0.00
0.00	0.00	0.00

SGS ACCUTEST FA39742

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\010317\
Data File : J0981939.D
Acq On : 3 Jan 2017 7:57 pm
Operator : darshnap
Sample : fa39907-16ms ma Inst : MSVOA6
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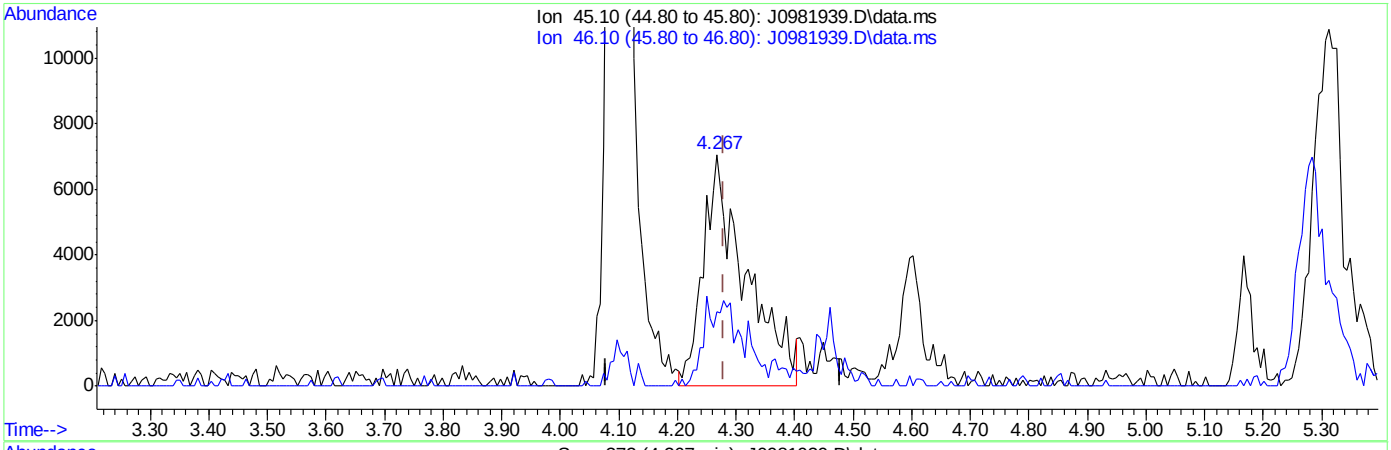

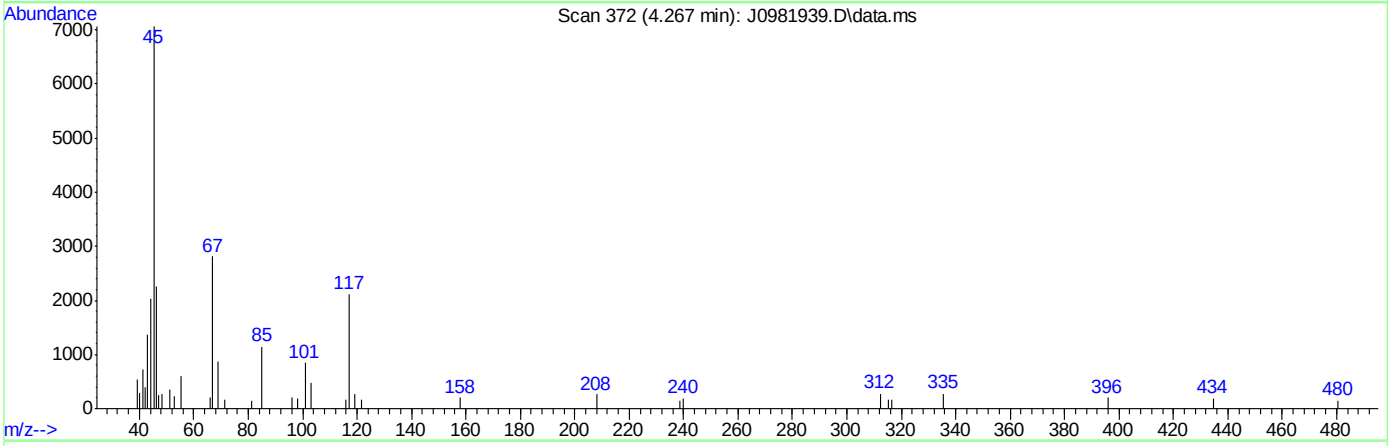

TIC: J0981939.D\data.ms

(107) Ethanol

4.267min (-0.012) 629.50ug/L m

response 35631

Ion	Exp%	Act%
45.10	100	100
46.10	41.60	32.08
0.00	0.00	0.00
0.00	0.00	0.00

SGS ACCUTEST FA39742

Manual Integrations APPROVED (compounds with "m" flag)
Juan Garcia
01/04/17 11:40

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\010317\
Data File : J0981940.D
Acq On : 3 Jan 2017 8:21 pm
Operator : darshnap
Sample : fa39907-16msd ma Inst : MSVOA6
Misc : MS35986,VJ5531,,,,,
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Jan 04 09:47:39 2017
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jan 03 09:58:33 2017
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.734	96	597411	50.00	ug/L	0.00
56) Chlorobenzene-d5	10.824	117	415456	50.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	13.181	152	220405	50.00	ug/L	0.00
106) Tert Butyl Alcohol-d10	5.284	65	83453	250.00	ug/L	0.00
System Monitoring Compounds						
36) Dibromofluoromethane	6.905	113	136523	48.41	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 96.82%			
46) 1,2-Dichloroethane-d4	7.458	65	207170	54.62	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 109.24%			
57) Toluene-d8	9.279	98	559378	50.70	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 101.40%			
79) 4-Bromofluorobenzene	12.035	95	234789	53.41	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 106.82%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.657	85	163041	25.09	ug/L	86
3) Chloromethane	2.863	50	227774	24.20	ug/L	99
4) Vinyl Chloride	3.010	62	132023	23.10	ug/L	98
5) 1,3-Butadiene	3.004	54	27976	7.75	ug/L	92
6) Bromomethane	3.427	94	51462	16.28	ug/L	96
7) Chloroethane	3.580	64	47149	20.99	ug/L	90
8) Trichlorofluoromethane	3.809	101	166077m	23.90	ug/L	
9) Ethyl Ether	4.091	59	144061	28.42	ug/L	97
10) 1,2-Dichlorotrifluoroe...	4.332	67	184096	29.37	ug/L	92
11) 1,1-Dichloroethene	4.373	61	274686	31.51	ug/L	98
12) Freon 113	4.426	101	138367	26.10	ug/L	92
13) Carbon Disulfide	4.449	76	439342	24.14	ug/L	97
14) Iodomethane	4.561	142	212310	22.93	ug/L	97
15) Allyl chloride	4.896	41	268162	25.66	ug/L	97
16) Methylene Chloride	5.025	49	277820	29.87	ug/L	93
17) Acetone	5.049	58	69080	143.71	ug/L #	69
18) Methyl acetate	5.172	74	95012	125.57	ug/L	94
19) trans-1,2-Dichloroethene	5.202	61	261764	30.91	ug/L	93
20) Hexane	5.278	56	164265	30.07	ug/L #	91
21) Methyl Tert Butyl Ether	5.307	73	557422	33.16	ug/L	93
22) Acetonitrile	5.566	40	114959	285.12	ug/L	90
23) Di-isopropyl ether	5.689	45	681478	30.17	ug/L	93
24) Chloroprene	5.842	53	250585	25.75	ug/L	93
25) 1,1-Dichloroethane	5.871	63	317087	31.30	ug/L	92
26) Acrylonitrile	5.901	53	281881	133.23	ug/L	98
27) ETBE	6.095	59	566707	27.20	ug/L	94
28) Vinyl acetate	6.083	43	1543014	112.36	ug/L	100
29) cis-1,2-Dichloroethene	6.447	96	174707	27.93	ug/L	97
30) 2,2-Dichloropropane	6.582	77	217647	25.00	ug/L	99
31) Bromochloromethane	6.665	128	71611	24.96	ug/L #	87
32) Cyclohexane	6.706	56	343698	30.23	ug/L	96
33) Chloroform	6.712	83	282219	27.46	ug/L	96
34) Ethyl acetate	6.782	43	649000	124.10	ug/L	98

Quantitation Report (QT Reviewed)

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Data File : J0981940.D
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Operator : darshnap
Sample : fa39907-16msd ma Inst : MSVOA6
Misc : MS35986,VJ5531,,,,,
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Jan 04 09:47:39 2017
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jan 03 09:58:33 2017
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
35)	Tetrahydrofuran	6.900	42	58435	33.94	ug/L		91
37)	Carbon Tetrachloride	6.905	117	185232	26.05	ug/L		97
38)	1,1,1-Trichloroethane	6.970	97	246622	27.43	ug/L		98
39)	2-Butanone	6.999	43	400231	159.65	ug/L		100
40)	1,1-Dichloropropene	7.082	75	214630	29.52	ug/L		89
42)	Propionitrile	7.311	54	224253	287.02	ug/L		96
43)	Methacrylonitrile	7.334	41	1040133	309.01	ug/L		98
44)	Benzene	7.334	78	621513	31.74	ug/L		99
45)	TAME	7.411	73	469424	27.61	ug/L		95
47)	1,2-Dichloroethane	7.528	62	233736	29.66	ug/L		99
48)	Trichloroethene	7.910	95	165614	29.70	ug/L		97
49)	Methylcyclohexane	7.934	83	292008	29.26	ug/L		91
50)	Dibromomethane	8.339	93	94415	27.95	ug/L		94
51)	1,2-Dichloropropane	8.427	63	180434	30.43	ug/L		96
52)	Bromodichloromethane	8.474	83	188523	25.50	ug/L		95
53)	Methyl methacrylate	8.568	41	159119	28.83	ug/L		89
55)	cis-1,3-Dichloropropene	9.085	75	233738	25.78	ug/L		97
58)	Toluene	9.332	91	659078	32.01	ug/L		99
59)	2-Nitropropane	9.532	41	206294	151.95	ug/L		98
60)	4-Methyl-2-pentanone	9.649	43	904475	159.90	ug/L		98
61)	trans-1,3-Dichloropropene	9.714	75	211345	27.96	ug/L		93
62)	Tetrachloroethene	9.732	166	146174	23.31	ug/L		91
63)	Ethyl methacrylate	9.820	69	181383	25.36	ug/L		87
64)	1,1,2-Trichloroethane	9.879	83	118867	31.20	ug/L		93
65)	Dibromochloromethane	10.078	129	119355	23.36	ug/L		93
66)	1,3-Dichloropropane	10.161	76	241009	28.58	ug/L		94
67)	1,2-Dibromoethane	10.337	107	138627	29.17	ug/L		97
68)	2-hexanone	10.466	43	624526	167.14	ug/L		92
69)	1-Chlorohexane	10.772	91	228546	29.89	ug/L		88
70)	Ethylbenzene	10.842	91	740059	32.06	ug/L		97
71)	Chlorobenzene	10.842	112	395295	27.91	ug/L		89
72)	1,1,1,2-Tetrachloroethane	10.895	131	140782	25.65	ug/L		97
73)	m,p-Xylene	10.977	91	1144978	59.00	ug/L		98
74)	o-Xylene	11.418	91	610340	28.83	ug/L		97
75)	Styrene	11.465	104	369603	23.32	ug/L		94
76)	Bromoform	11.530	173	68478	19.11	ug/L		96
77)	Isopropylbenzene	11.723	105	1045818	42.41	ug/L		98
80)	cis-1,4-Dichloro-2-butene	12.070	53	33398	18.92	ug/L		88
81)	n-Propylbenzene	12.141	91	1058129	36.17	ug/L		95
82)	Bromobenzene	12.164	156	176376	28.92	ug/L		99
83)	1,1,2,2-Tetrachloroethane	12.199	83	186340	29.14	ug/L		97
84)	1,3,5-Trimethylbenzene	12.323	105	557896	28.77	ug/L		99
85)	2-Chlorotoluene	12.329	91	600301	30.16	ug/L		96
86)	trans-1,4-Dichloro-2-B...	12.382	53	39837	20.49	ug/L		92
87)	1,2,3-Trichloropropane	12.364	110	50773	30.75	ug/L		89
88)	Cyclohexanone	12.423	55	29303	115.13	ug/L		82
89)	4-Chlorotoluene	12.499	91	577254	30.39	ug/L		97
90)	a-Methyl Styrene	12.664	118	4078	0.34	ug/L	#	1
91)	tert-Butylbenzene	12.664	91	388897	30.76	ug/L		92
92)	1,2,4-Trimethylbenzene	12.734	105	574490	29.90	ug/L		94

SGS ACCUTEST FA39742

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\010317\
Data File : J0981940.D
Acq On : 3 Jan 2017 8:21 pm
Operator : darshnap
Sample : fa39907-16msd ma Inst : MSVOA6
Misc : MS35986,VJ5531,,,,,
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Jan 04 09:47:39 2017
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jan 03 09:58:33 2017
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
93)	Pentachloroethane	12.716	167	90502	24.04	ug/L		99
94)	sec-Butylbenzene	12.846	105	872301	33.15	ug/L		96
95)	4-Isopropyltoluene	12.981	119	661623	31.91	ug/L		96
96)	1,3-Dichlorobenzene	13.116	146	348460	28.05	ug/L		95
97)	1,4-Dichlorobenzene	13.198	146	343001	26.60	ug/L		97
98)	n-Butylbenzene	13.410	92	421831	33.34	ug/L		99
99)	Benzyl Chloride	13.427	126	50539	19.30	ug/L	#	30
100)	1,2-Dichlorobenzene	13.627	146	347419	27.77	ug/L		98
101)	1,2-Dibromo-3-Chloropr...	14.362	75	35600	28.13	ug/L		83
102)	Hexachlorobutadiene	14.908	225	127784	24.23	ug/L		98
103)	1,2,4-Trichlorobenzene	14.955	180	248745	28.04	ug/L		96
104)	Naphthalene	15.237	128	626047	35.05	ug/L		97
105)	1,2,3-Trichlorobenzene	15.407	180	231512	27.76	ug/L		97
107)	Ethanol	4.279	45	37524m	593.36	ug/L		
108)	acrolein	4.737	56	124752	107.53	ug/L		95
109)	Tert Butyl Alcohol	5.354	59	339370	500.22	ug/L		90
110)	tert Amyl alcohol	7.552	59	137983	251.31	ug/L		95
111)	Isobutyl alcohol	7.434	42	119180	537.35	ug/L		98
112)	1,4-Dioxane	8.645	88	466755	7999.67	ug/L		93
113)	3,3-Dimethyl-1-butanol	10.413	57	790606	1387.24	ug/L		97

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

7.4.4

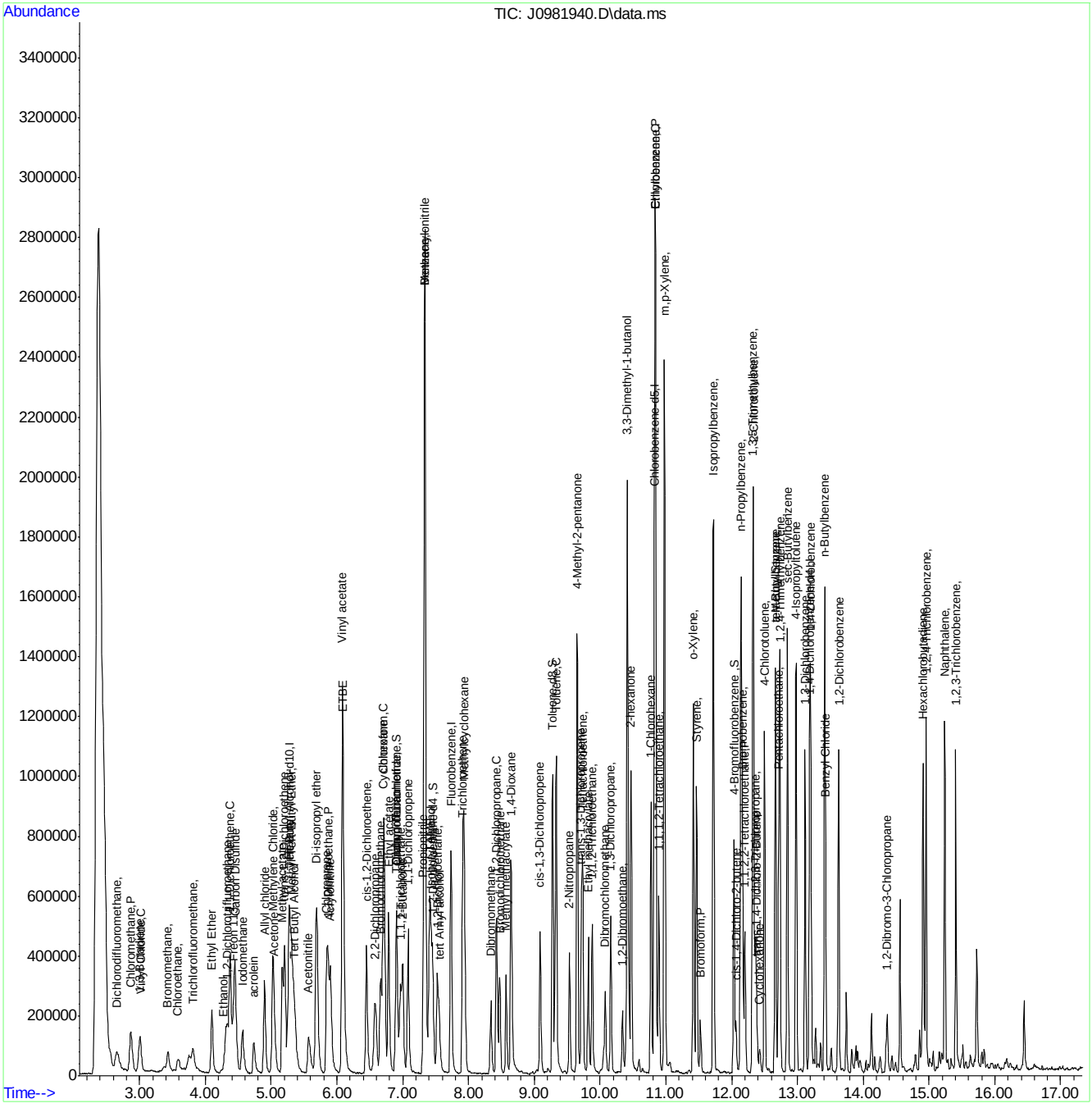
7

SGS ACCUTEST FA39742

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\010317\
Data File : J0981940.D
Acq On : 3 Jan 2017 8:21 pm
Operator : darshnap
Sample : fa39907-16msd ma Inst : MSVOA6
Misc : MS35986,VJ5531,,,,,
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Jan 04 09:47:39 2017
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jan 03 09:58:33 2017
Response via : Initial Calibration



SGS ACCUTEST FA39742

Manual Integration Approval Summary

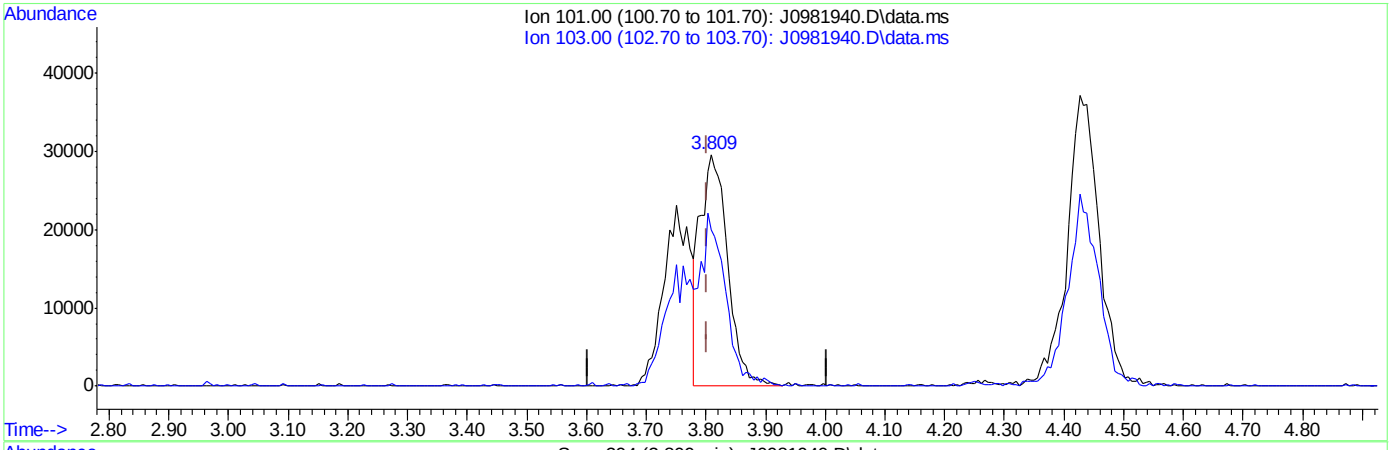
Sample Number:	FA39907-16MSD	**Method:**	SW846 8260C
Lab FileID:	J0981940.D	**Analyst approved:**	01/04/17 10:37 Darshna Patel
Injection Time:	01/03/17 20:21	**Supervisor approved:**	01/04/17 11:40 Juan Garcia

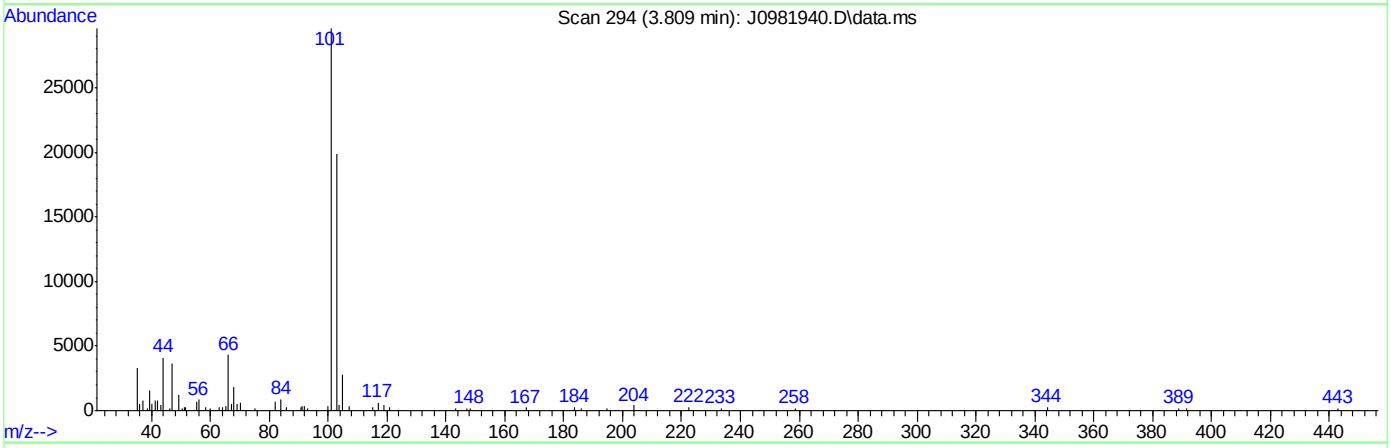
Parameter	CAS	Sig#	R.T. (min.)	Reason
Trichlorofluoromethane	75-69-4		3.81	Split peak
Ethyl Alcohol	64-17-5		4.28	Poor instrument integration

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\010317\
Data File : J0981940.D
Acq On : 3 Jan 2017 8:21 pm
Operator : darshnap
Sample : fa39907-16msd ma Inst : MSVOA6
Misc : MS35986,VJ5531,,,,,
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Jan 04 07:48:43 2017
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jan 03 09:58:33 2017
Response via : Initial Calibration





TIC: J0981940.D\data.ms

(8) Trichlorofluoromethane ( )

3.809min (+0.006) 13.58ug/L

response 94338

Ion	Exp%	Act%
101.00	100	100
103.00	55.20	67.23
0.00	0.00	0.00
0.00	0.00	0.00

SGS ACCUTEST FA39742

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\010317\
Data File : J0981940.D
Acq On : 3 Jan 2017 8:21 pm
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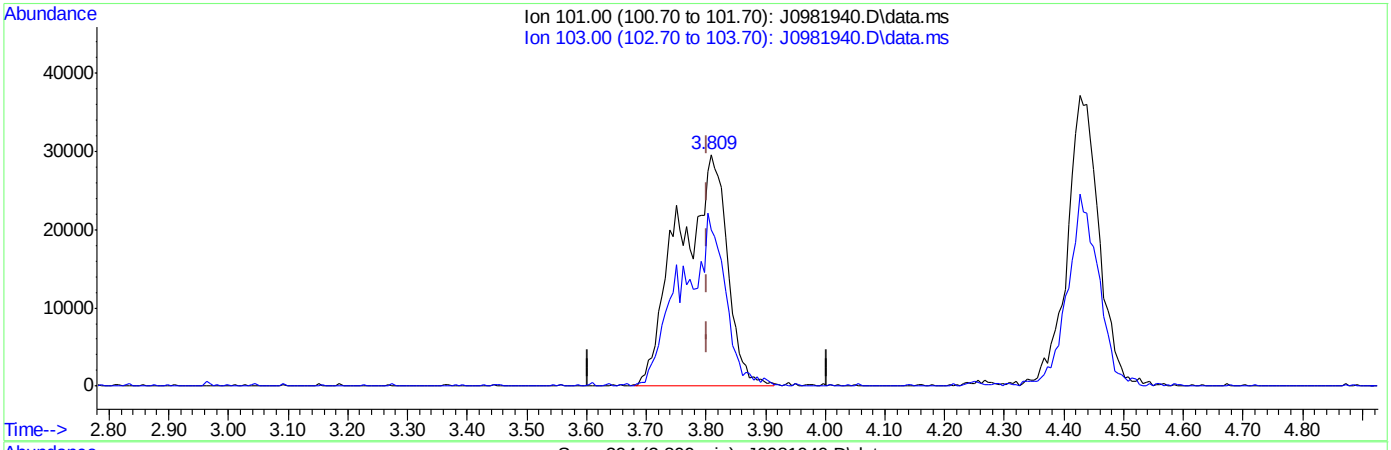

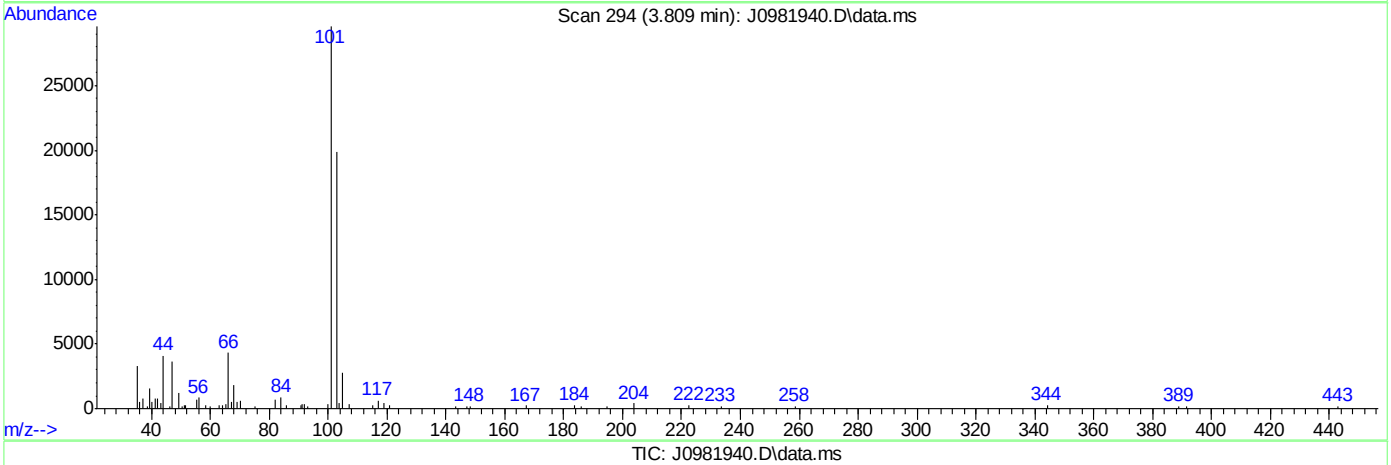

TIC: J0981940.D\data.ms

(8) Trichlorofluoromethane ( )

3.809min (+0.006) 23.90ug/L m

response 166077

Ion	Exp%	Act%
101.00	100	100
103.00	55.20	67.23
0.00	0.00	0.00
0.00	0.00	0.00

SGS ACCUTEST FA39742

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\010317\
Data File : J0981940.D
Acq On : 3 Jan 2017 8:21 pm
Operator : darshnap
Sample : fa39907-16msd ma Inst : MSVOA6
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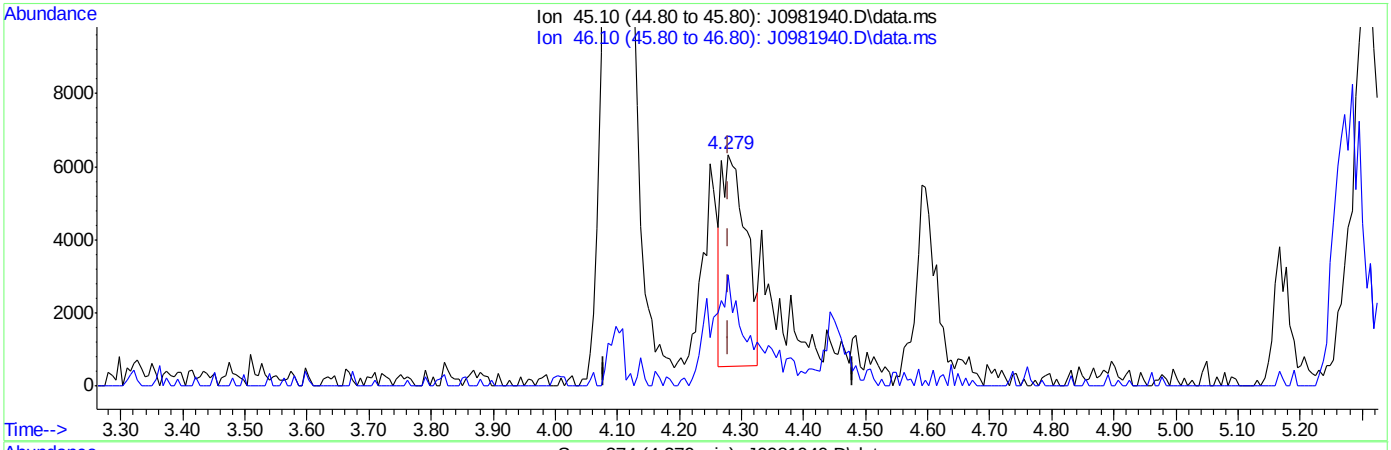
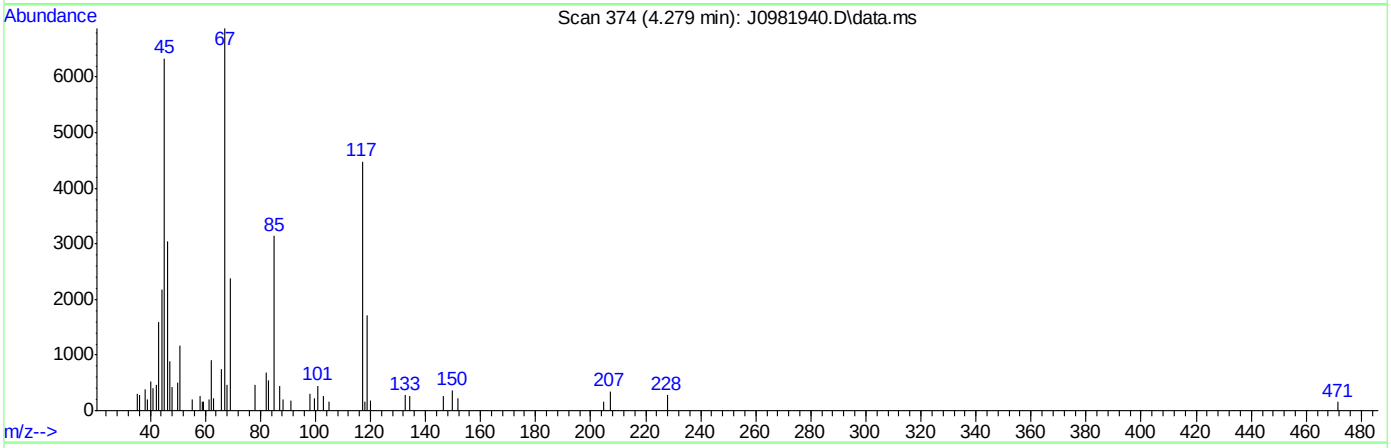
QLast Update : Tue Jan 03 09:58:33 2017
Response via : Initial Calibration





TIC: J0981940.D\data.ms

(107) Ethanol

4.279min (+0.000) 256.12ug/L

response 16194

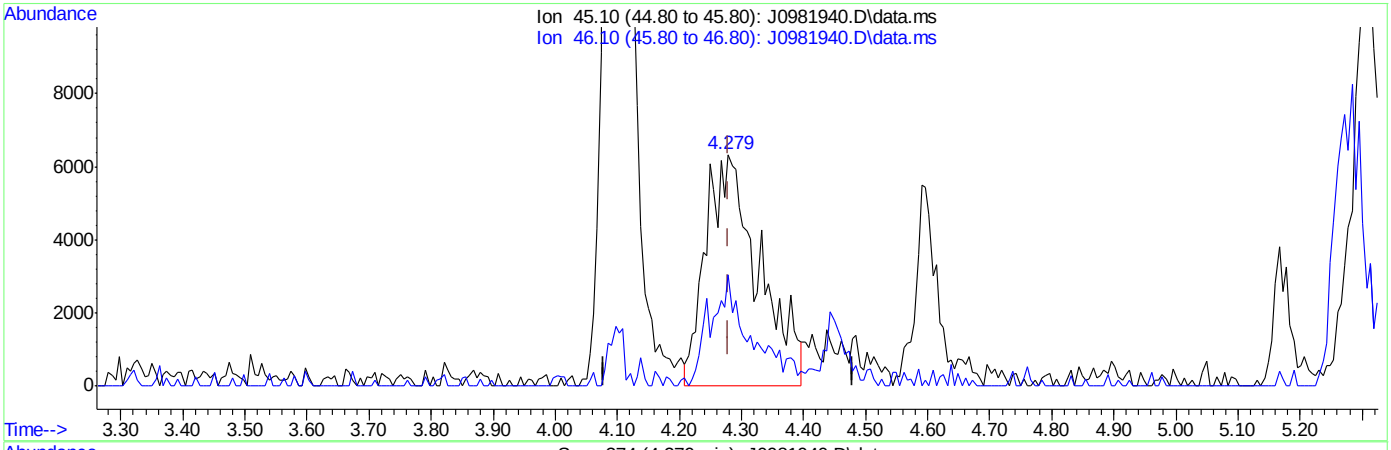
Ion	Exp%	Act%
45.10	100	100
46.10	41.60	48.17
0.00	0.00	0.00
0.00	0.00	0.00

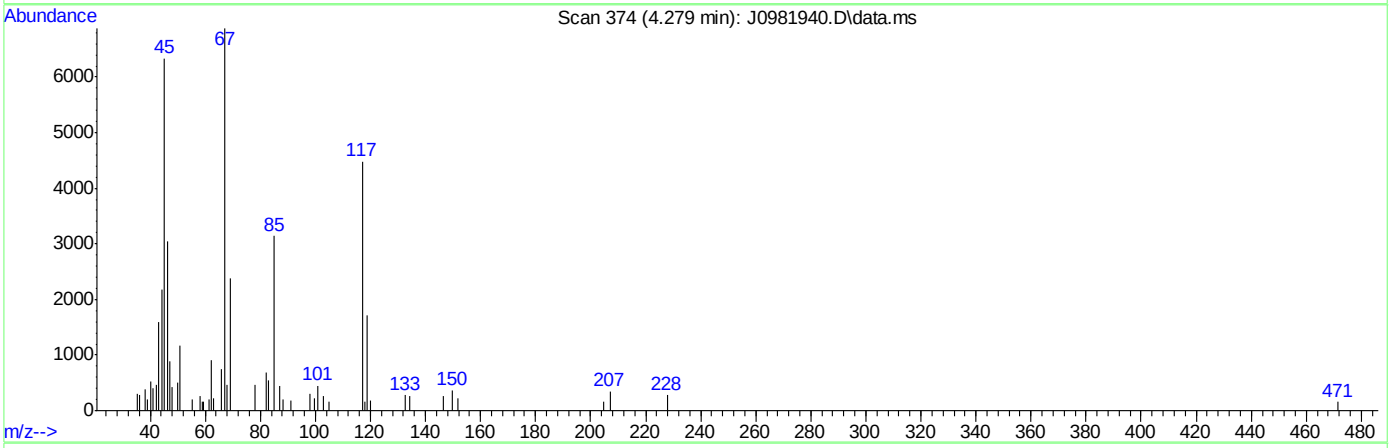
SGS ACCUTEST FA39742

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\010317\
Data File : J0981940.D
Acq On : 3 Jan 2017 8:21 pm
Operator : darshnap
Sample : fa39907-16msd ma Inst : MSVOA6
Misc : MS35986,VJ5531,,,,,
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Jan 04 07:48:43 2017
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jan 03 09:58:33 2017
Response via : Initial Calibration





TIC: J0981940.D\data.ms

(107) Ethanol

4.279min (+0.000) 593.36ug/L m

response 37524

Ion	Exp%	Act%
45.10	100	100
46.10	41.60	47.92
0.00	0.00	0.00
0.00	0.00	0.00

SGS ACCUTEST FA39742

Manual Integrations APPROVED (compounds with "m" flag)
Melissa Mangual
01/05/17 11:20

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\010417\
Data File : J0981965.D
Acq On : 4 Jan 2017 5:18 pm
Operator : darshnap
Sample : fa39942-11ma ma Inst : MSVOA6
Misc : MS35997,VJ5532,,,,,
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Jan 05 07:59:54 2017
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jan 03 08:23:52 2017
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.728	96	520604	50.00	ug/L	0.00
56) Chlorobenzene-d5	10.825	117	358017	50.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	13.186	152	186746	50.00	ug/L	0.00
106) Tert Butyl Alcohol-d10	5.272	65	66808	250.00	ug/L	0.00
System Monitoring Compounds						
36) Dibromofluoromethane	6.900	113	113685	46.26	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 92.52%			
46) 1,2-Dichloroethane-d4	7.452	65	178231	53.93	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 107.86%			
57) Toluene-d8	9.279	98	484667	50.97	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 101.94%			
79) 4-Bromofluorobenzene	12.035	95	193224	51.87	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 103.74%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.652	85	202188	35.71	ug/L	100
3) Chloromethane	2.869	50	352288	42.95	ug/L	92
4) Vinyl Chloride	3.016	62	219044	43.98	ug/L	97
5) 1,3-Butadiene	3.010	54	23818	7.57	ug/L	87
6) Bromomethane	3.427	94	87705	32.72	ug/L	95
7) Chloroethane	3.586	64	88237	48.37	ug/L	97
8) Trichlorofluoromethane	3.821	101	290732m	48.01	ug/L	
9) Ethyl Ether	4.097	59	125745	28.47	ug/L	91
10) 1,2-Dichlorotrifluoroe...	4.314	67	275172	50.38	ug/L	88
11) 1,1-Dichloroethene	4.373	61	240589	31.67	ug/L	93
12) Freon 113	4.438	101	202636	43.92	ug/L	92
13) Carbon Disulfide	4.449	76	391603	24.69	ug/L	100
14) Iodomethane	4.567	142	187214	23.20	ug/L	98
15) Allyl chloride	4.896	41	246161	27.03	ug/L	97
16) Methylene Chloride	5.019	49	245598	30.32	ug/L	92
17) Acetone	5.049	58	53581	127.91	ug/L #	56
18) Methyl acetate	5.166	74	92563	140.38	ug/L	98
19) trans-1,2-Dichloroethene	5.207	61	238299	32.29	ug/L	97
20) Hexane	5.272	56	144499	30.35	ug/L #	87
21) Methyl Tert Butyl Ether	5.307	73	396212	27.04	ug/L	91
22) Acetonitrile	5.578	40	100001	284.59	ug/L #	80
23) Di-isopropyl ether	5.689	45	599354	30.45	ug/L	92
24) Chloroprene	5.848	53	228658	26.96	ug/L	95
25) 1,1-Dichloroethane	5.871	63	287064	32.52	ug/L	91
26) Acrylonitrile	5.901	53	263899	143.14	ug/L	98
27) ETBE	6.089	59	483924	26.65	ug/L	98
28) Vinyl acetate	6.083	43	1557850	131.80	ug/L	99
29) cis-1,2-Dichloroethene	6.447	96	149986	27.52	ug/L	95
30) 2,2-Dichloropropane	6.576	77	203111	26.78	ug/L	97
31) Bromochloromethane	6.659	128	59839	23.94	ug/L #	80
32) Cyclohexane	6.706	56	297024	29.98	ug/L	94
33) Chloroform	6.712	83	244949	27.35	ug/L	98
34) Ethyl acetate	6.782	43	625892	137.33	ug/L	96

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\010417\
Data File : J0981965.D
Acq On : 4 Jan 2017 5:18 pm
Operator : darshnap
Sample : fa39942-11ma ma Inst : MSVOA6
Misc : MS35997,VJ5532,,,,,
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Jan 05 07:59:54 2017
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jan 03 08:23:52 2017
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
35) Tetrahydrofuran	6.894	42	49217	32.79 ug/L	87
37) Carbon Tetrachloride	6.905	117	153729m	24.81 ug/L	
38) 1,1,1-Trichloroethane	6.970	97	201912	25.77 ug/L	98
39) 2-Butanone	7.000	43	313439	143.47 ug/L	96
40) 1,1-Dichloropropene	7.082	75	183875	29.02 ug/L	85
41) tert-Butyl Formate	7.170	59	5534	1.06 ug/L #	63
42) Propionitrile	7.305	54	184683	271.24 ug/L	88
43) Methacrylonitrile	7.334	41	884536	300.84 ug/L	98
44) Benzene	7.329	78	534543	32.17 ug/L	94
45) TAME	7.411	73	409329	27.63 ug/L	95
47) 1,2-Dichloroethane	7.522	62	204498	29.78 ug/L	95
48) Trichloroethene	7.910	95	145247	29.89 ug/L	93
49) Methylcyclohexane	7.934	83	264573	30.42 ug/L	96
50) Dibromomethane	8.339	93	80412	27.32 ug/L	90
51) 1,2-Dichloropropane	8.427	63	153558	29.72 ug/L	91
52) Bromodichloromethane	8.468	83	166041	25.77 ug/L	92
53) Methyl methacrylate	8.568	41	139126	28.93 ug/L	93
55) cis-1,3-Dichloropropene	9.091	75	218332	27.63 ug/L	95
58) Toluene	9.332	91	573952	32.35 ug/L	98
59) 2-Nitropropane	9.532	41	170958	146.13 ug/L	95
60) 4-Methyl-2-pentanone	9.649	43	724770	148.00 ug/L	94
61) trans-1,3-Dichloropropene	9.714	75	193204	29.67 ug/L	91
62) Tetrachloroethene	9.732	166	121647	22.51 ug/L	94
63) Ethyl methacrylate	9.820	69	155681	25.26 ug/L	91
64) 1,1,2-Trichloroethane	9.879	83	100350	30.57 ug/L	95
65) Dibromochloromethane	10.078	129	105292	23.92 ug/L	86
66) 1,3-Dichloropropane	10.161	76	205815	28.32 ug/L	89
67) 1,2-Dibromoethane	10.337	107	112146	27.39 ug/L	100
68) 2-hexanone	10.472	43	488948	151.85 ug/L	90
69) 1-Chlorohexane	10.777	91	192821	29.26 ug/L	92
70) Ethylbenzene	10.842	91	636676	32.00 ug/L	100
71) Chlorobenzene	10.842	112	338423	27.73 ug/L	91
72) 1,1,1,2-Tetrachloroethane	10.895	131	112923	25.10 ug/L	93
73) m,p-Xylene	10.977	91	989405	59.17 ug/L	100
74) o-Xylene	11.418	91	534346	29.29 ug/L	98
75) Styrene	11.465	104	381193	30.25 ug/L	93
76) Bromoform	11.524	173	57017	18.47 ug/L	98
77) Isopropylbenzene	11.718	105	628900	29.59 ug/L	98
80) cis-1,4-Dichloro-2-butene	12.064	53	31688	21.18 ug/L #	73
81) n-Propylbenzene	12.141	91	792981	31.99 ug/L	96
82) Bromobenzene	12.164	156	144694	28.00 ug/L	95
83) 1,1,2,2-Tetrachloroethane	12.199	83	160886	29.69 ug/L	95
84) 1,3,5-Trimethylbenzene	12.323	105	534298	32.51 ug/L	92
85) 2-Chlorotoluene	12.329	91	527534	31.28 ug/L	96
86) trans-1,4-Dichloro-2-B...	12.382	53	34786	21.11 ug/L	90
87) 1,2,3-Trichloropropane	12.364	110	43267	30.93 ug/L	89
88) Cyclohexanone	12.429	55	25340	117.54 ug/L	92
89) 4-Chlorotoluene	12.499	91	494084	30.70 ug/L	98
90) a-Methyl Styrene	12.734	118	5104	0.50 ug/L #	1
91) tert-Butylbenzene	12.664	91	313052	29.22 ug/L	91

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\010417\
Data File : J0981965.D
Acq On : 4 Jan 2017 5:18 pm
Operator : darshnap
Sample : fa39942-11ma ma Inst : MSVOA6
Misc : MS35997,VJ5532,,,,,
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Jan 05 07:59:54 2017
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jan 03 08:23:52 2017
Response via : Initial Calibration

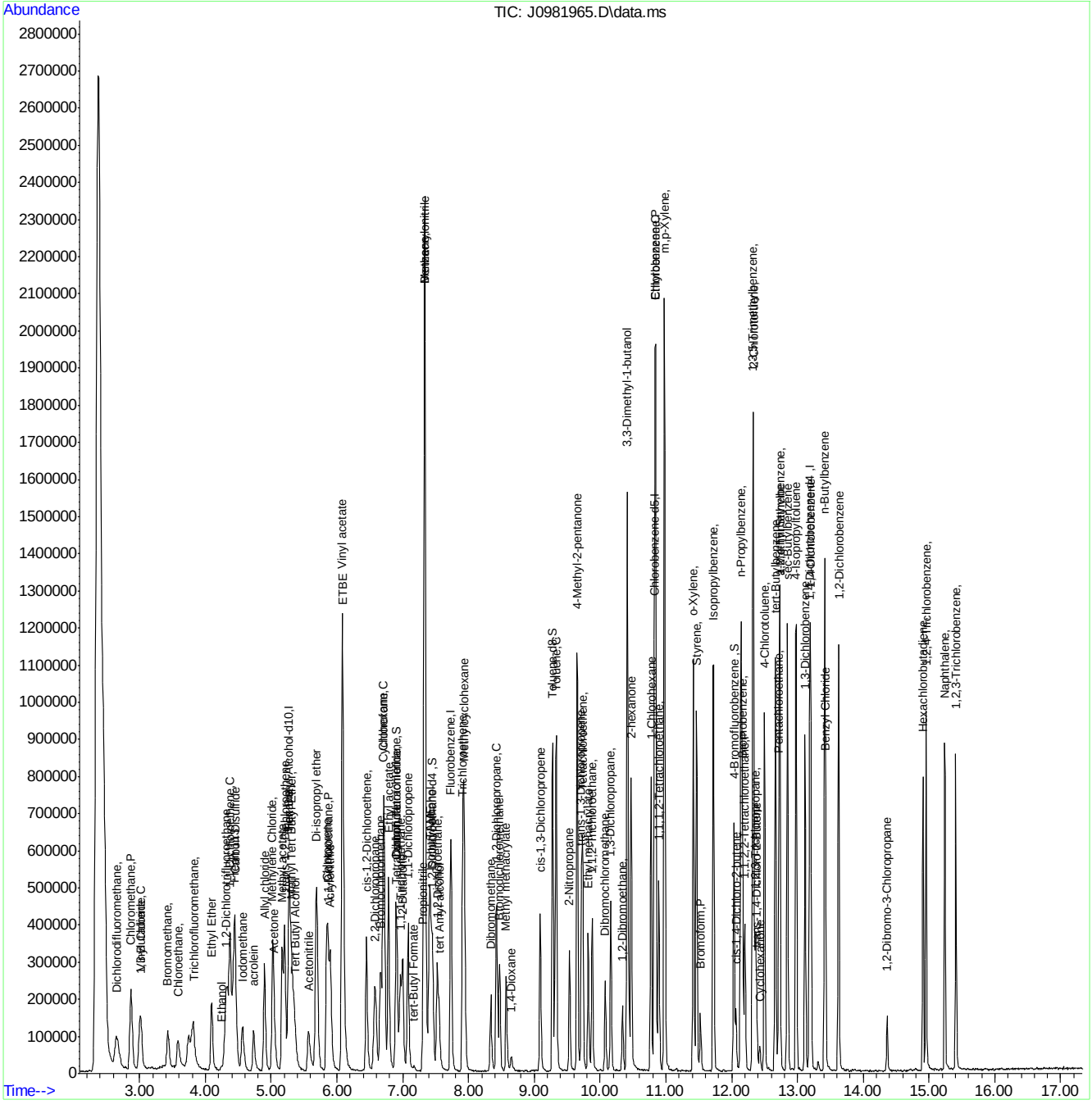
	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
92)	1,2,4-Trimethylbenzene	12.734	105	534257	32.82	ug/L		96
93)	Pentachloroethane	12.716	167	73206	22.95	ug/L		92
94)	sec-Butylbenzene	12.846	105	717915	32.20	ug/L		95
95)	4-Isopropyltoluene	12.981	119	584640	33.28	ug/L		94
96)	1,3-Dichlorobenzene	13.116	146	298268	28.34	ug/L		95
97)	1,4-Dichlorobenzene	13.198	146	311844	28.55	ug/L		96
98)	n-Butylbenzene	13.416	92	354255	33.05	ug/L		92
99)	Benzyl Chloride	13.427	126	47025	21.20	ug/L	#	37
100)	1,2-Dichlorobenzene	13.627	146	363377	34.28	ug/L		96
101)	1,2-Dibromo-3-Chloropr...	14.362	75	26752	24.95	ug/L		84
102)	Hexachlorobutadiene	14.908	225	102730	22.99	ug/L		92
103)	1,2,4-Trichlorobenzene	14.955	180	198576	26.42	ug/L		98
104)	Naphthalene	15.237	128	493677	33.94	ug/L		97
105)	1,2,3-Trichlorobenzene	15.407	180	185154	26.54	ug/L		97
107)	Ethanol	4.244	45	31487m	621.94	ug/L		
108)	acrolein	4.732	56	122279	131.66	ug/L		92
109)	Tert Butyl Alcohol	5.360	59	226089	399.40	ug/L		82
110)	tert Amyl alcohol	7.552	59	110172	250.65	ug/L		94
111)	Isobutyl alcohol	7.428	42	93997	529.40	ug/L	#	85
112)	1,4-Dioxane	8.651	88	24250	519.17	ug/L		89
113)	3,3-Dimethyl-1-butanol	10.413	57	618583	1355.82	ug/L		94

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\010417\
Data File : J0981965.D
Acq On : 4 Jan 2017 5:18 pm
Operator : darshnap
Sample : fa39942-11ma ma Inst : MSVOA6
Misc : MS35997,VJ5532,,,,,
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Jan 05 07:59:54 2017
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jan 03 08:23:52 2017
Response via : Initial Calibration



SGS ACCUTEST FA39742

Manual Integration Approval Summary

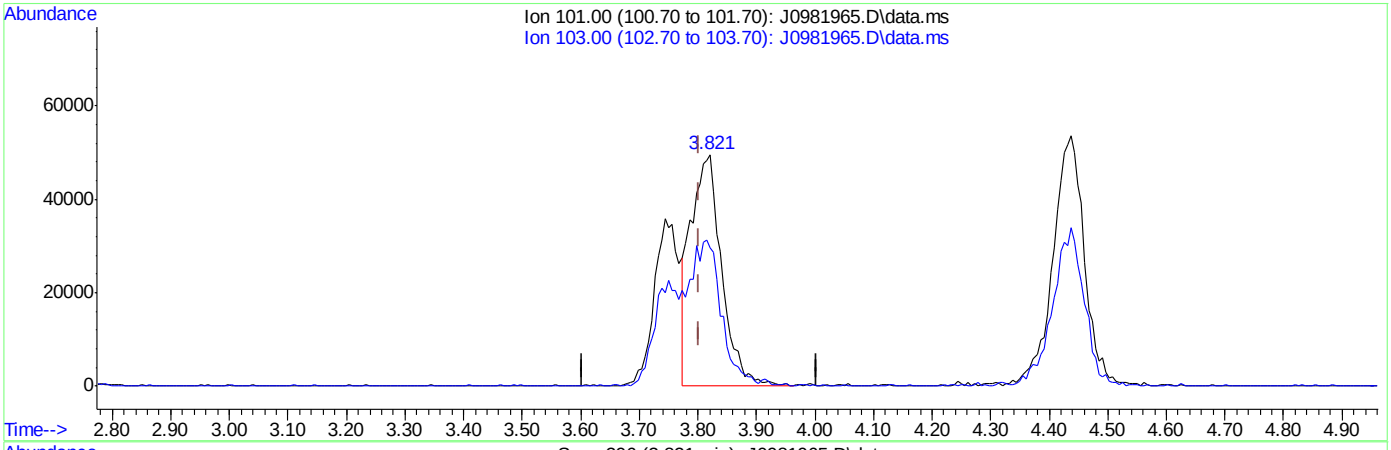
Sample Number:	FA39942-11MS	**Method:**	SW846 8260C
Lab FileID:	J0981965.D	**Analyst approved:**	01/05/17 09:27 Darshna Patel
Injection Time:	01/04/17 17:18	**Supervisor approved:**	01/05/17 11:20 Melissa Mangual

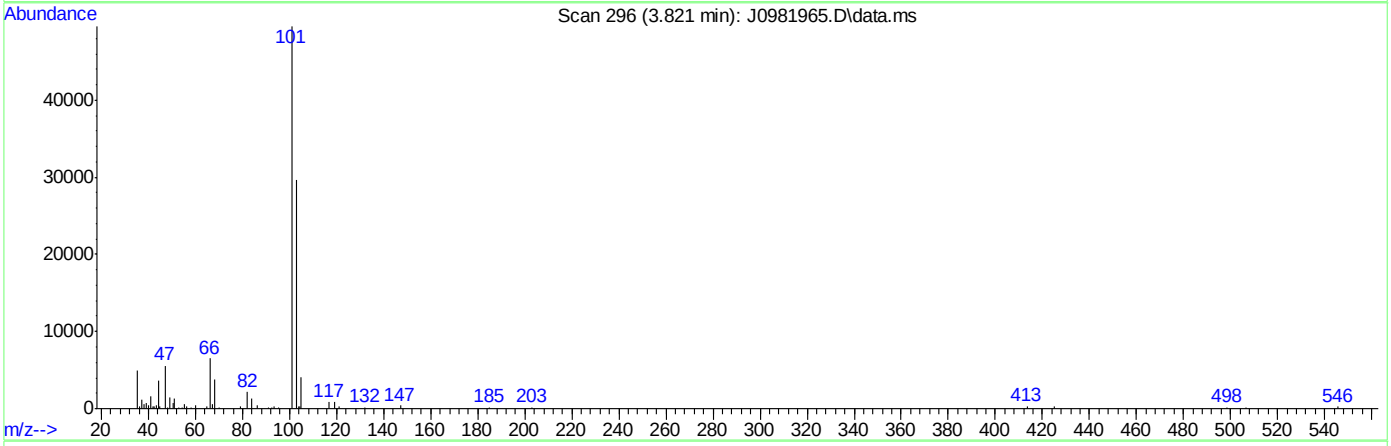
Parameter	CAS	Sig#	R.T. (min.)	Reason
Trichlorofluoromethane	75-69-4		3.82	Split peak
Ethyl Alcohol	64-17-5		4.24	Poor instrument integration
Carbon Tetrachloride	56-23-5		6.91	Overlapping peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\010417\
Data File : J0981965.D
Acq On : 4 Jan 2017 5:18 pm
Operator : darshnap
Sample : fa39942-11ma ma Inst : MSVOA6
Misc : MS35997,VJ5532,,,,,
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Jan 05 07:40:51 2017
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jan 03 08:23:52 2017
Response via : Initial Calibration





TIC: J0981965.D\data.ms

(8) Trichlorofluoromethane ( )

3.821min (+0.018) 30.08ug/L

response 182165

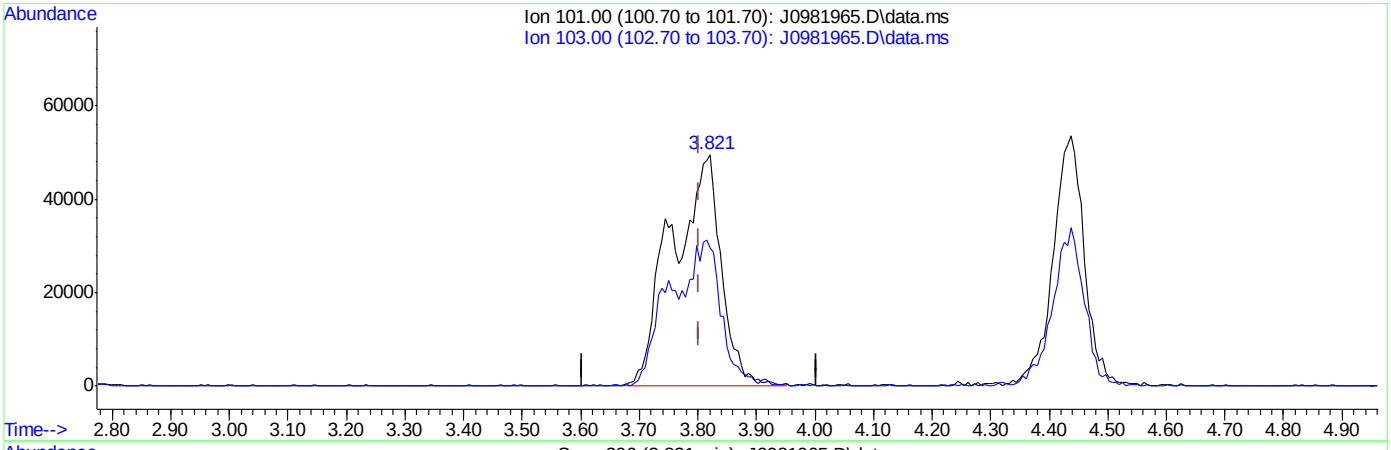
Ion	Exp%	Act%
101.00	100	100
103.00	55.20	59.71
0.00	0.00	0.00
0.00	0.00	0.00

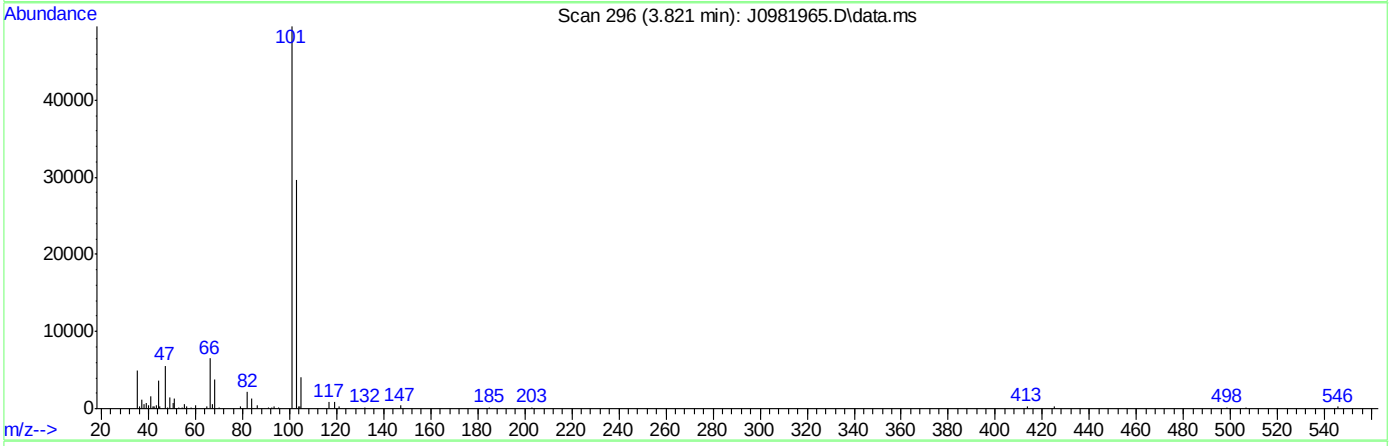
SGS ACCUTEST FA39742

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\010417\
Data File : J0981965.D
Acq On : 4 Jan 2017 5:18 pm
Operator : darshnap
Sample : fa39942-11ma ma Inst : MSVOA6
Misc : MS35997,VJ5532,,,,,
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Jan 05 07:40:51 2017
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jan 03 08:23:52 2017
Response via : Initial Calibration





TIC: J0981965.D\data.ms

(8) Trichlorofluoromethane ( )

3.821min (+0.018) 48.01ug/L m

response 290732

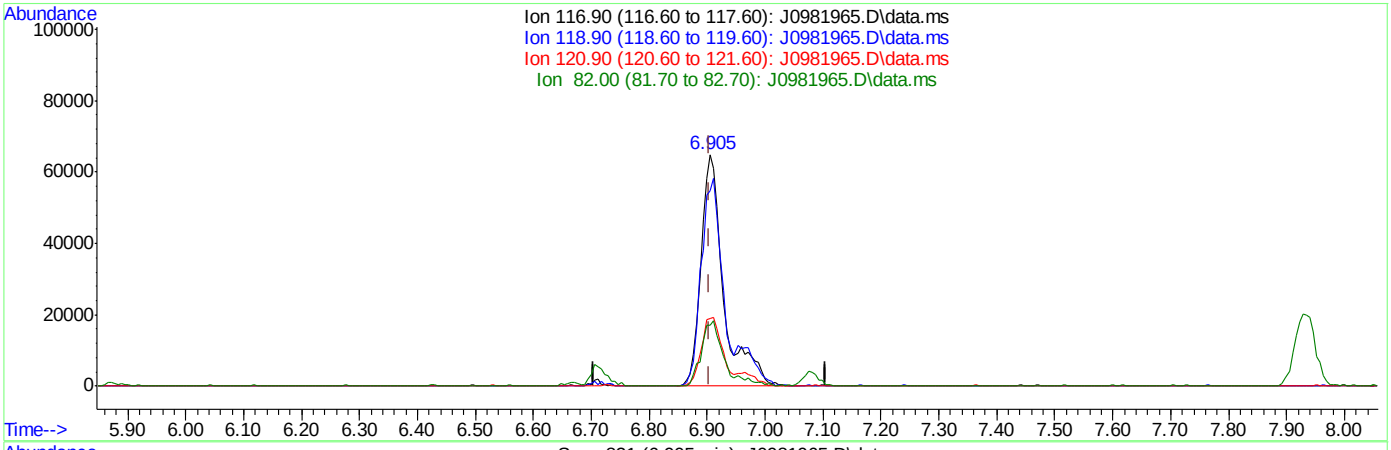
Ion	Exp%	Act%
101.00	100	100
103.00	55.20	59.71
0.00	0.00	0.00
0.00	0.00	0.00

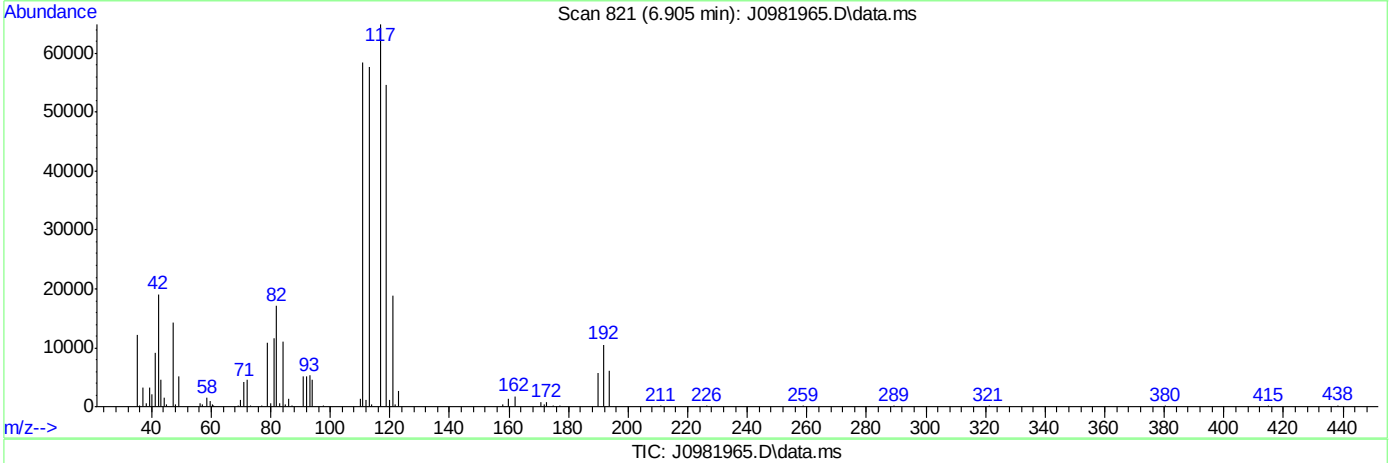
SGS ACCUTEST FA39742

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\010417\
Data File : J0981965.D
Acq On : 4 Jan 2017 5:18 pm
Operator : darshnap
Sample : fa39942-11ma ma Inst : MSVOA6
Misc : MS35997,VJ5532,,,,,
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Jan 05 07:40:51 2017
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jan 03 08:23:52 2017
Response via : Initial Calibration





TIC: J0981965.D\data.ms

(37) Carbon Tetrachloride ( )

6.905min (+0.000) 28.86ug/L

response 178785

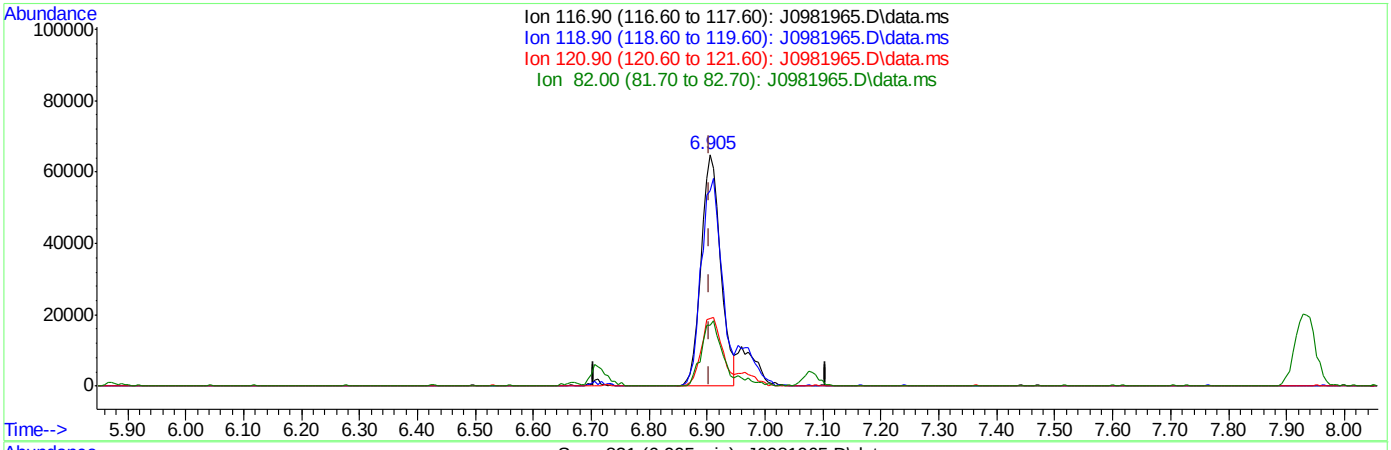
Ion	Exp%	Act%
116.90	100	100
118.90	91.30	84.21
120.90	30.80	29.17
82.00	23.30	26.34

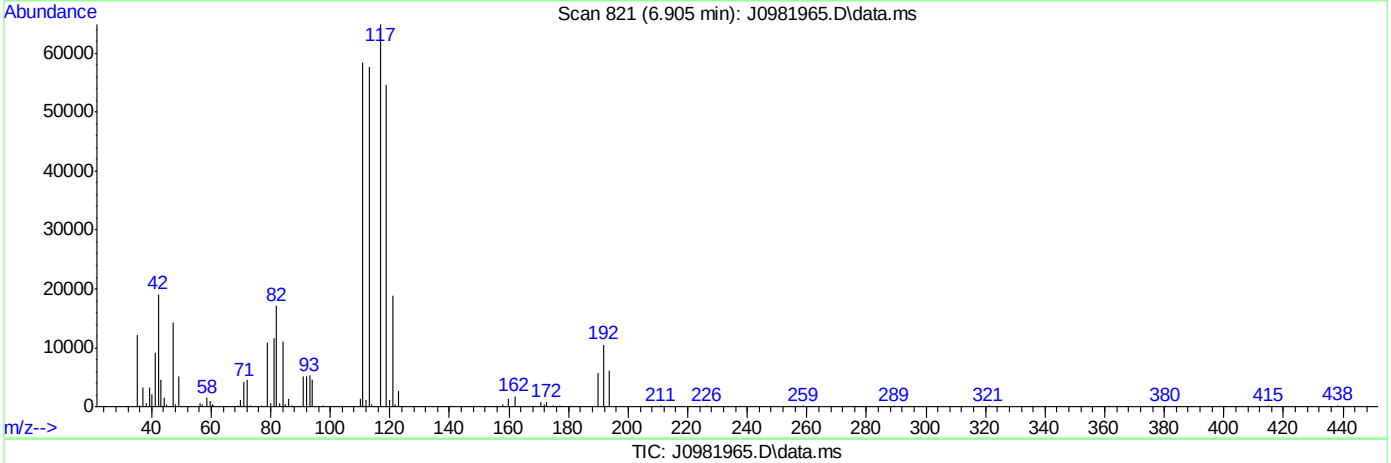
SGS ACCUTEST FA39742

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\010417\
Data File : J0981965.D
Acq On : 4 Jan 2017 5:18 pm
Operator : darshnap
Sample : fa39942-11ma ma Inst : MSVOA6
Misc : MS35997,VJ5532,,,,,
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Jan 05 07:40:51 2017
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jan 03 08:23:52 2017
Response via : Initial Calibration





TIC: J0981965.D\data.ms

(37) Carbon Tetrachloride ( )

6.905min (+0.000) 24.81ug/L m

response 153729

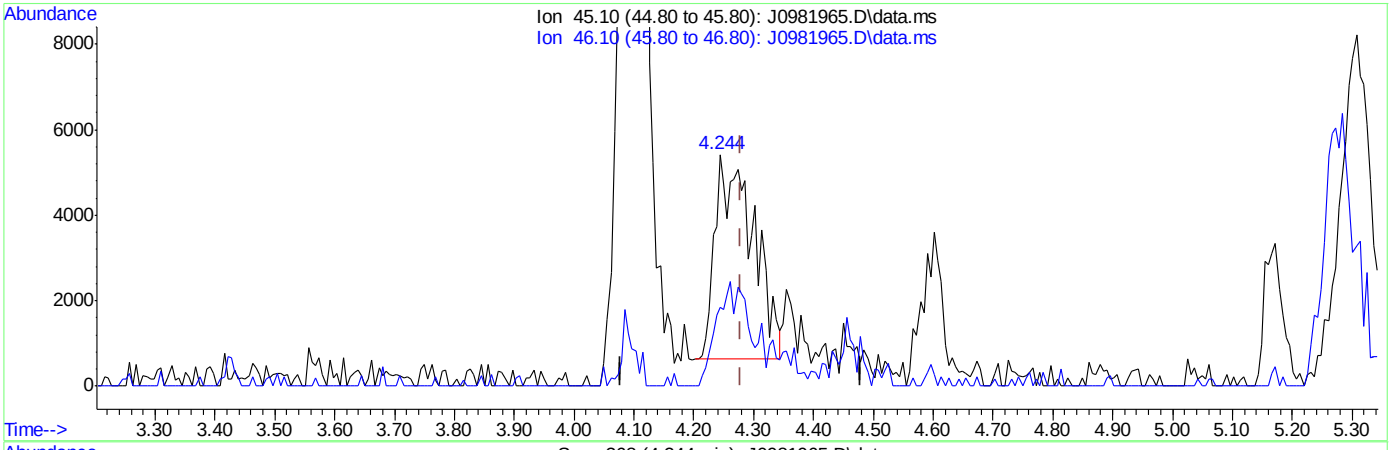
Ion	Exp%	Act%
116.90	100	100
118.90	91.30	84.21
120.90	30.80	29.17
82.00	23.30	26.34

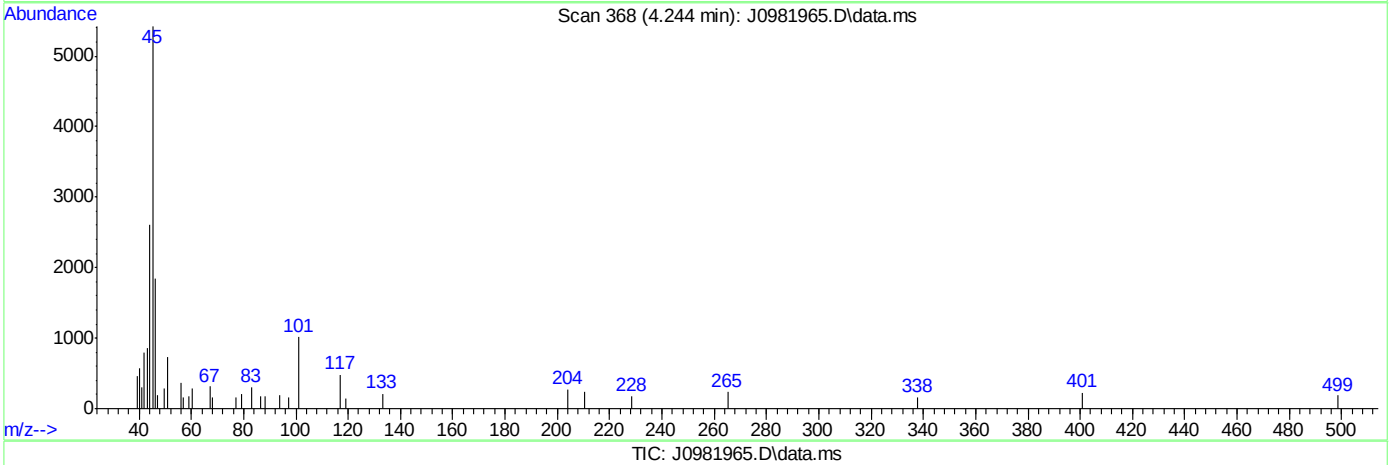
SGS ACCUTEST FA39742

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\010417\
Data File : J0981965.D
Acq On : 4 Jan 2017 5:18 pm
Operator : darshnap
Sample : fa39942-11ma ma Inst : MSVOA6
Misc : MS35997,VJ5532,,,,,
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Jan 05 07:40:51 2017
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jan 03 08:23:52 2017
Response via : Initial Calibration





TIC: J0981965.D\data.ms

(107) Ethanol

4.244min (-0.035) 417.52ug/L

response 21135

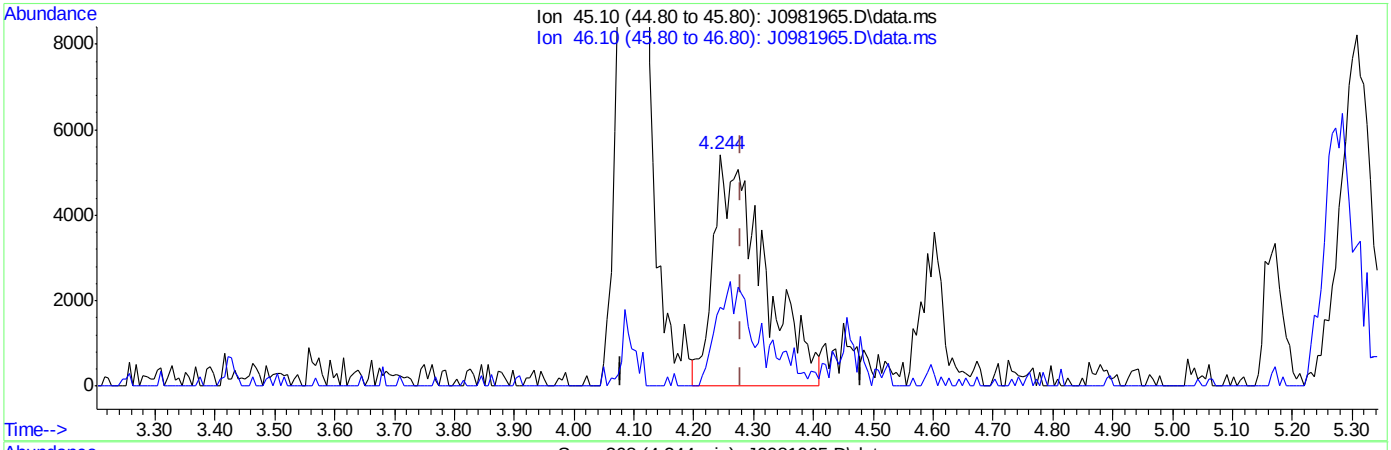
Ion	Exp%	Act%
45.10	100	100
46.10	41.60	38.65
0.00	0.00	0.00
0.00	0.00	0.00

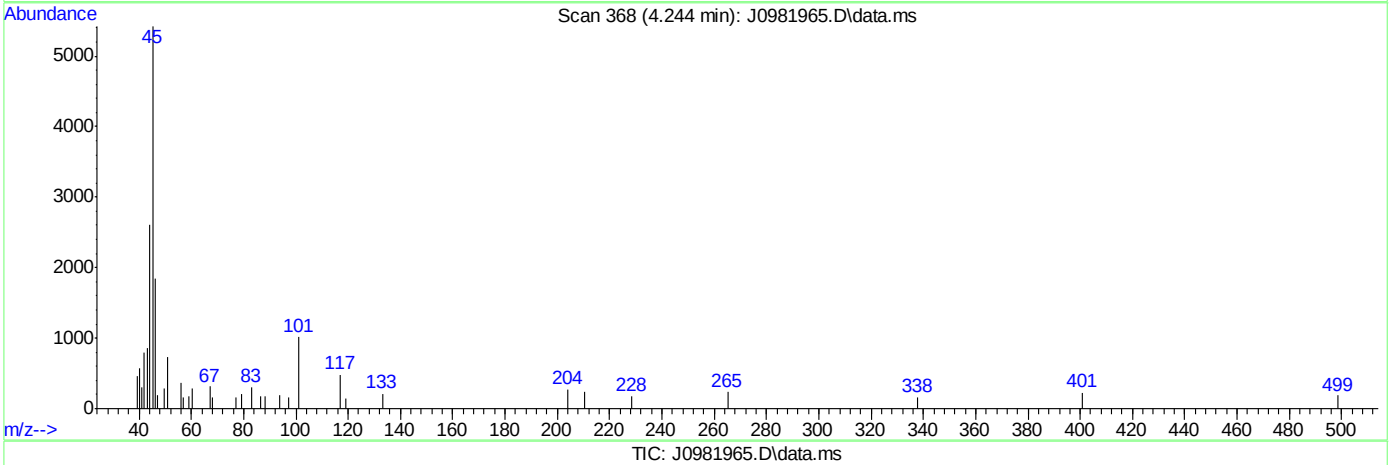
SGS ACCUTEST FA39742

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\010417\
Data File : J0981965.D
Acq On : 4 Jan 2017 5:18 pm
Operator : darshnap
Sample : fa39942-11ma ma Inst : MSVOA6
Misc : MS35997,VJ5532,,,,,
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Jan 05 07:40:51 2017
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jan 03 08:23:52 2017
Response via : Initial Calibration





TIC: J0981965.D\data.ms

(107) Ethanol

4.244min (-0.035) 621.94ug/L m

response 31487

Ion	Exp%	Act%
45.10	100	100
46.10	41.60	34.14
0.00	0.00	0.00
0.00	0.00	0.00

SGS ACCUTEST FA39742

Manual Integrations APPROVED (compounds with "m" flag)
Melissa Mangual
01/05/17 11:20

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\010417\
Data File : J0981966.D
Acq On : 4 Jan 2017 5:41 pm
Operator : darshnap
Sample : fa39942-11msd ma Inst : MSVOA6
Misc : MS35997,VJ5532,,,,,
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Jan 05 08:00:31 2017
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jan 03 08:23:52 2017
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.734	96	593877	50.00	ug/L	0.00
56) Chlorobenzene-d5	10.825	117	418104	50.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	13.186	152	217321	50.00	ug/L	0.00
106) Tert Butyl Alcohol-d10	5.272	65	83240	250.00	ug/L	0.00
System Monitoring Compounds						
36) Dibromofluoromethane	6.906	113	141854	50.60	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 101.20%			
46) 1,2-Dichloroethane-d4	7.458	65	205454	54.49	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 108.98%			
57) Toluene-d8	9.279	98	551145	49.64	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 99.28%			
79) 4-Bromofluorobenzene	12.035	95	226773	52.31	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 104.62%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.646	85	218760	33.87	ug/L	96
3) Chloromethane	2.863	50	353773	37.81	ug/L	93
4) Vinyl Chloride	3.010	62	233240	41.05	ug/L	98
5) 1,3-Butadiene	3.004	54	33782	9.41	ug/L	94
6) Bromomethane	3.427	94	89341	29.04	ug/L	93
7) Chloroethane	3.580	64	85015	39.96	ug/L	99
8) Trichlorofluoromethane	3.803	101	294557m	42.64	ug/L	
9) Ethyl Ether	4.097	59	123165	24.44	ug/L	94
10) 1,2-Dichlorotrifluoroe...	4.320	67	272237	43.69	ug/L	92
11) 1,1-Dichloroethene	4.367	61	247032	28.51	ug/L	91
12) Freon 113	4.432	101	202773	38.51	ug/L	89
13) Carbon Disulfide	4.444	76	368540	20.37	ug/L	98
14) Iodomethane	4.561	142	185899	20.20	ug/L	95
15) Allyl chloride	4.896	41	232991	22.43	ug/L	98
16) Methylene Chloride	5.019	49	243754	26.27	ug/L	95
17) Acetone	5.037	58	58678	122.79	ug/L #	83
18) Methyl acetate	5.166	74	92853	123.44	ug/L #	85
19) trans-1,2-Dichloroethene	5.202	61	229553	27.27	ug/L	95
20) Hexane	5.272	56	139520	25.70	ug/L #	79
21) Methyl Tert Butyl Ether	5.313	73	399252	23.89	ug/L	97
22) Acetonitrile	5.572	40	101175	251.26	ug/L	88
23) Di-isopropyl ether	5.689	45	604488	26.92	ug/L	95
24) Chloroprene	5.842	53	224900	23.24	ug/L	95
25) 1,1-Dichloroethane	5.871	63	287609	28.56	ug/L	95
26) Acrylonitrile	5.901	53	274953	130.73	ug/L	97
27) ETBE	6.089	59	475494	22.96	ug/L	97
28) Vinyl acetate	6.077	43	1584631	116.38	ug/L	99
29) cis-1,2-Dichloroethene	6.447	96	151035	24.29	ug/L	96
30) 2,2-Dichloropropane	6.576	77	202026	23.35	ug/L	85
31) Bromochloromethane	6.659	128	61957	21.73	ug/L #	72
32) Cyclohexane	6.706	56	296675	26.25	ug/L	93
33) Chloroform	6.712	83	242949	23.78	ug/L	95
34) Ethyl acetate	6.782	43	652083	125.43	ug/L	96

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\010417\
Data File : J0981966.D
Acq On : 4 Jan 2017 5:41 pm
Operator : darshnap
Sample : fa39942-11msd ma Inst : MSVOA6
Misc : MS35997,VJ5532,,,,,
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Jan 05 08:00:31 2017
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jan 03 08:23:52 2017
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
35) Tetrahydrofuran	6.894	42	50120	29.25	ug/L	87
37) Carbon Tetrachloride	6.911	117	152748	21.61	ug/L	96
38) 1,1,1-Trichloroethane	6.970	97	205513	22.99	ug/L	97
39) 2-Butanone	7.000	43	329869	132.36	ug/L	96
40) 1,1-Dichloropropene	7.082	75	187524	25.95	ug/L	95
41) tert-Butyl Formate	7.164	59	2871	0.48	ug/L #	60
42) Propionitrile	7.305	54	193740	249.44	ug/L	87
43) Methacrylonitrile	7.334	41	913311	269.89	ug/L	98
44) Benzene	7.329	78	545436	28.77	ug/L	96
45) TAME	7.411	73	407912	24.14	ug/L	92
47) 1,2-Dichloroethane	7.522	62	202188	25.81	ug/L	95
48) Trichloroethene	7.910	95	145666	26.28	ug/L	97
49) Methylcyclohexane	7.934	83	260092	26.21	ug/L	94
50) Dibromomethane	8.339	93	75476	22.48	ug/L	93
51) 1,2-Dichloropropane	8.427	63	157230	26.68	ug/L	89
52) Bromodichloromethane	8.468	83	159169	21.66	ug/L	97
53) Methyl methacrylate	8.568	41	142207	25.86	ug/L	89
55) cis-1,3-Dichloropropene	9.085	75	204677	22.71	ug/L	97
58) Toluene	9.332	91	572723	27.64	ug/L	97
59) 2-Nitropropane	9.532	41	177965	130.26	ug/L	97
60) 4-Methyl-2-pentanone	9.649	43	753420	130.86	ug/L	97
61) trans-1,3-Dichloropropene	9.714	75	183833	24.17	ug/L	93
62) Tetrachloroethene	9.732	166	125312	19.85	ug/L	94
63) Ethyl methacrylate	9.814	69	160139	22.25	ug/L	93
64) 1,1,2-Trichloroethane	9.879	83	101789	26.55	ug/L	95
65) Dibromochloromethane	10.078	129	101063	19.66	ug/L	86
66) 1,3-Dichloropropane	10.161	76	209726	24.71	ug/L	91
67) 1,2-Dibromoethane	10.337	107	118844	24.85	ug/L	92
68) 2-hexanone	10.466	43	513528	136.57	ug/L	94
69) 1-Chlorohexane	10.778	91	196250	25.50	ug/L	93
70) Ethylbenzene	10.842	91	650512	28.00	ug/L	98
71) Chlorobenzene	10.842	112	342152	24.01	ug/L	89
72) 1,1,1,2-Tetrachloroethane	10.889	131	110090	20.95	ug/L	96
73) m,p-Xylene	10.977	91	986316	49.91	ug/L	97
74) o-Xylene	11.418	91	525445	24.66	ug/L	98
75) Styrene	11.465	104	376361	25.58	ug/L	94
76) Bromoform	11.530	173	57241	15.88	ug/L	97
77) Isopropylbenzene	11.718	105	630896	25.42	ug/L	96
80) cis-1,4-Dichloro-2-butene	12.070	53	23021	13.22	ug/L	87
81) n-Propylbenzene	12.141	91	803494	27.85	ug/L	93
82) Bromobenzene	12.164	156	145917	24.26	ug/L	98
83) 1,1,2,2-Tetrachloroethane	12.199	83	164945	26.16	ug/L	99
84) 1,3,5-Trimethylbenzene	12.323	105	535336	27.99	ug/L	96
85) 2-Chlorotoluene	12.329	91	525465	26.77	ug/L	95
86) trans-1,4-Dichloro-2-B...	12.382	53	28886	15.07	ug/L	92
87) 1,2,3-Trichloropropane	12.358	110	43115	26.48	ug/L	80
88) Cyclohexanone	12.429	55	27180	108.23	ug/L	92
89) 4-Chlorotoluene	12.499	91	498987	26.64	ug/L	99
90) a-Methyl Styrene	12.734	118	4265	0.36	ug/L #	1
91) tert-Butylbenzene	12.664	91	328684	26.37	ug/L	90

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\010417\
Data File : J0981966.D
Acq On : 4 Jan 2017 5:41 pm
Operator : darshnap
Sample : fa39942-11msd ma Inst : MSVOA6
Misc : MS35997,VJ5532,,,,,
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Jan 05 08:00:31 2017
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jan 03 08:23:52 2017
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
92)	1,2,4-Trimethylbenzene	12.728	105	532043	28.08	ug/L		94
93)	Pentachloroethane	12.716	167	73219	19.73	ug/L		97
94)	sec-Butylbenzene	12.846	105	723674	27.89	ug/L		96
95)	4-Isopropyltoluene	12.981	119	578946	28.32	ug/L		94
96)	1,3-Dichlorobenzene	13.116	146	301178	24.59	ug/L		95
97)	1,4-Dichlorobenzene	13.198	146	312084	24.55	ug/L		95
98)	n-Butylbenzene	13.410	92	354996	28.46	ug/L		95
99)	Benzyl Chloride	13.427	126	45031	17.44	ug/L	#	30
100)	1,2-Dichlorobenzene	13.627	146	357284	28.97	ug/L		96
101)	1,2-Dibromo-3-Chloropr...	14.362	75	31001	24.84	ug/L	#	73
102)	Hexachlorobutadiene	14.908	225	103741	19.95	ug/L		96
103)	1,2,4-Trichlorobenzene	14.955	180	208711	23.86	ug/L		95
104)	Naphthalene	15.237	128	528333	31.21	ug/L		98
105)	1,2,3-Trichlorobenzene	15.407	180	195412	24.07	ug/L		97
107)	Ethanol	4.279	45	33640m	533.33	ug/L		
108)	acrolein	4.737	56	115579	99.88	ug/L		98
109)	Tert Butyl Alcohol	5.354	59	243946	345.87	ug/L		90
110)	tert Amyl alcohol	7.552	59	116499	212.72	ug/L		97
111)	Isobutyl alcohol	7.428	42	104621	472.91	ug/L	#	80
112)	1,4-Dioxane	8.651	88	27976	480.70	ug/L		88
113)	3,3-Dimethyl-1-butanol	10.413	57	676540	1190.13	ug/L		94

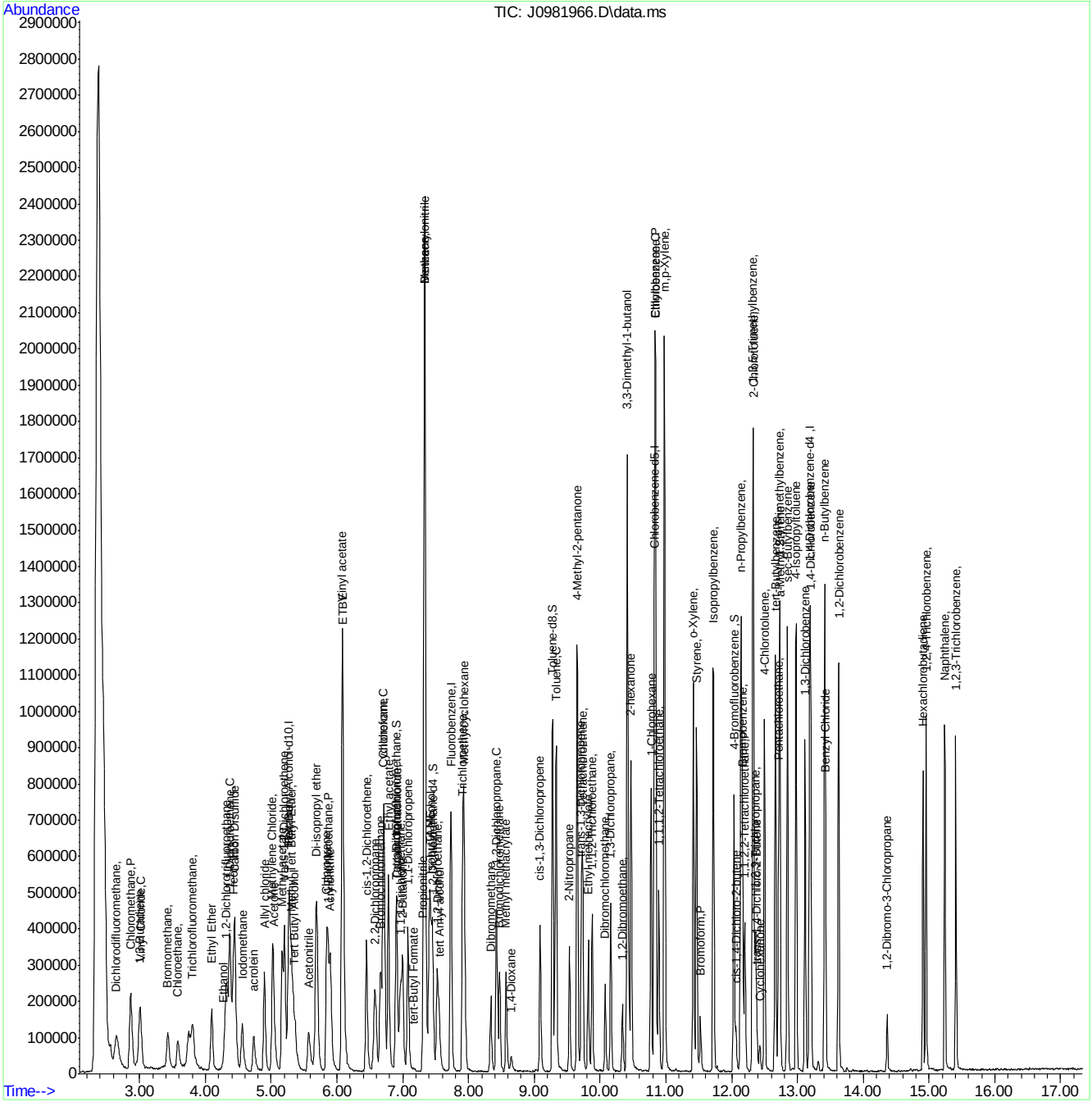
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST FA39742

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\010417\
Data File : J0981966.D
Acq On : 4 Jan 2017 5:41 pm
Operator : darshnap
Sample : fa39942-11msd ma Inst : MSVOA6
Misc : MS35997,VJ5532,,,,,
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Jan 05 08:00:31 2017
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jan 03 08:23:52 2017
Response via : Initial Calibration



SGS ACCUTEST FA39742

Manual Integration Approval Summary

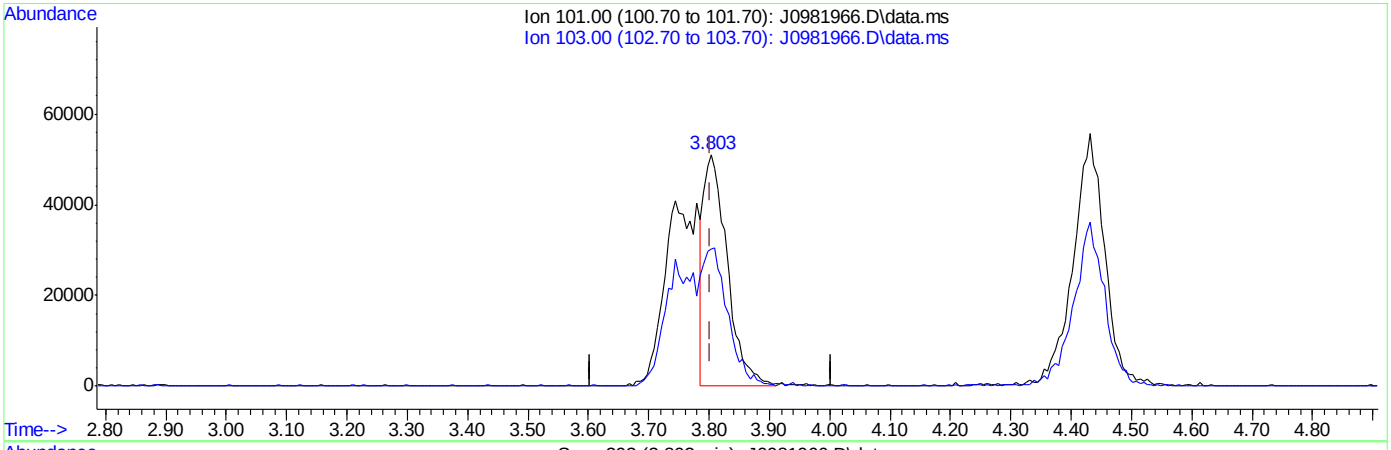
Sample Number:	FA39942-11MSD	**Method:**	SW846 8260C
Lab FileID:	J0981966.D	**Analyst approved:**	01/05/17 09:27 Darshna Patel
Injection Time:	01/04/17 17:41	**Supervisor approved:**	01/05/17 11:20 Melissa Mangual

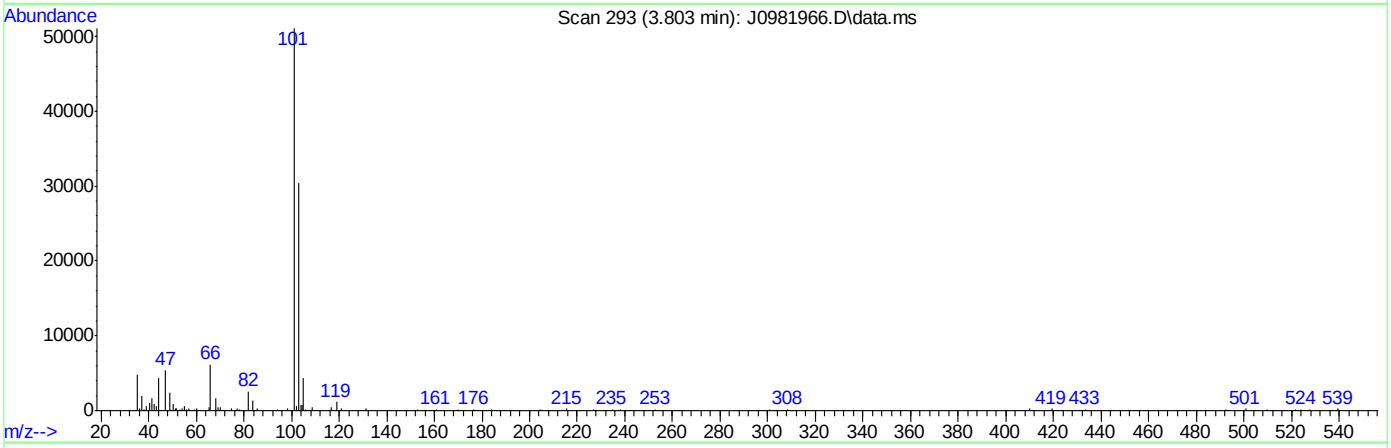
Parameter	CAS	Sig#	R.T. (min.)	Reason
Trichlorofluoromethane	75-69-4		3.80	Split peak
Ethyl Alcohol	64-17-5		4.28	Poor instrument integration

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\010417\
Data File : J0981966.D
Acq On : 4 Jan 2017 5:41 pm
Operator : darshnap
Sample : fa39942-11msd ma Inst : MSVOA6
Misc : MS35997,VJ5532,,,,,
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Jan 05 07:40:54 2017
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jan 03 08:23:52 2017
Response via : Initial Calibration





TIC: J0981966.D\data.ms

(8) Trichlorofluoromethane ( )

3.803min (+0.000) 19.81ug/L

response 136830

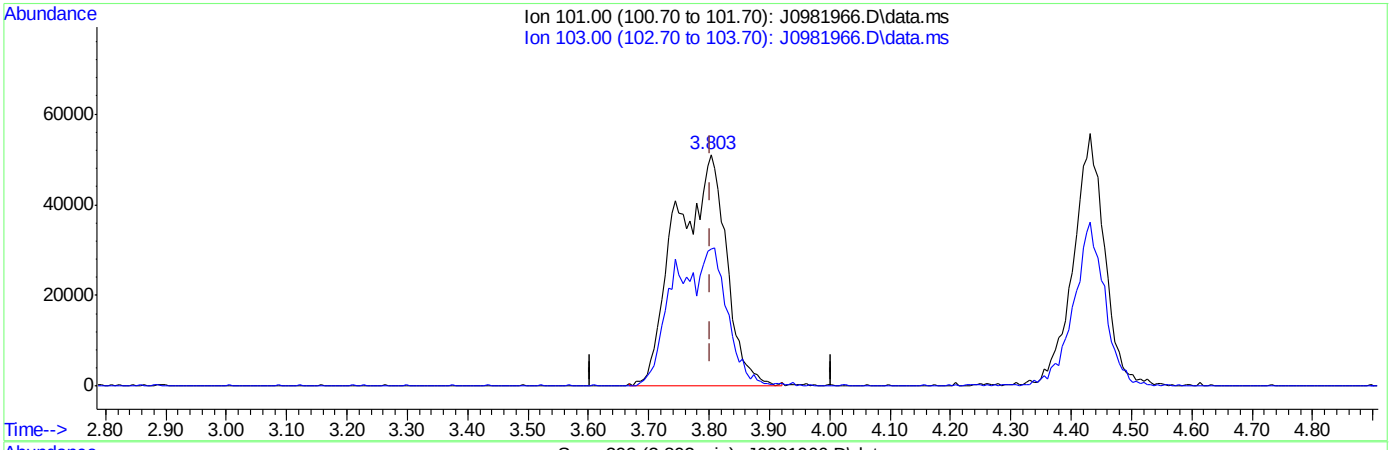
Ion	Exp%	Act%
101.00	100	100
103.00	55.20	58.31
0.00	0.00	0.00
0.00	0.00	0.00

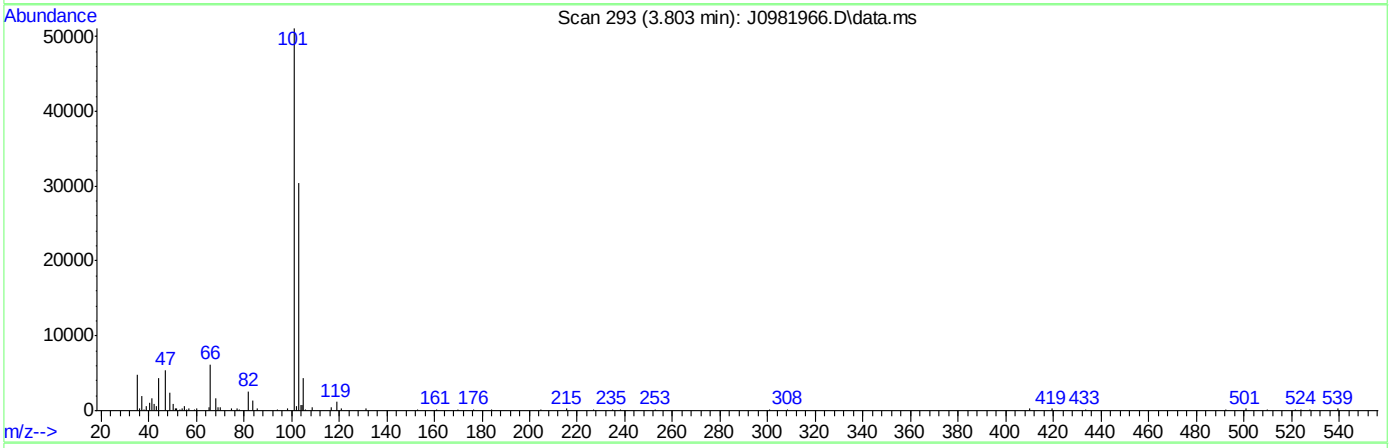
SGS ACCUTEST FA39742

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\010417\
Data File : J0981966.D
Acq On : 4 Jan 2017 5:41 pm
Operator : darshnap
Sample : fa39942-11msd ma Inst : MSVOA6
Misc : MS35997,VJ5532,,,,,
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Jan 05 07:40:54 2017
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jan 03 08:23:52 2017
Response via : Initial Calibration





TIC: J0981966.D\data.ms

(8) Trichlorofluoromethane ( )

3.803min (+0.000) 42.64ug/L m

response 294557

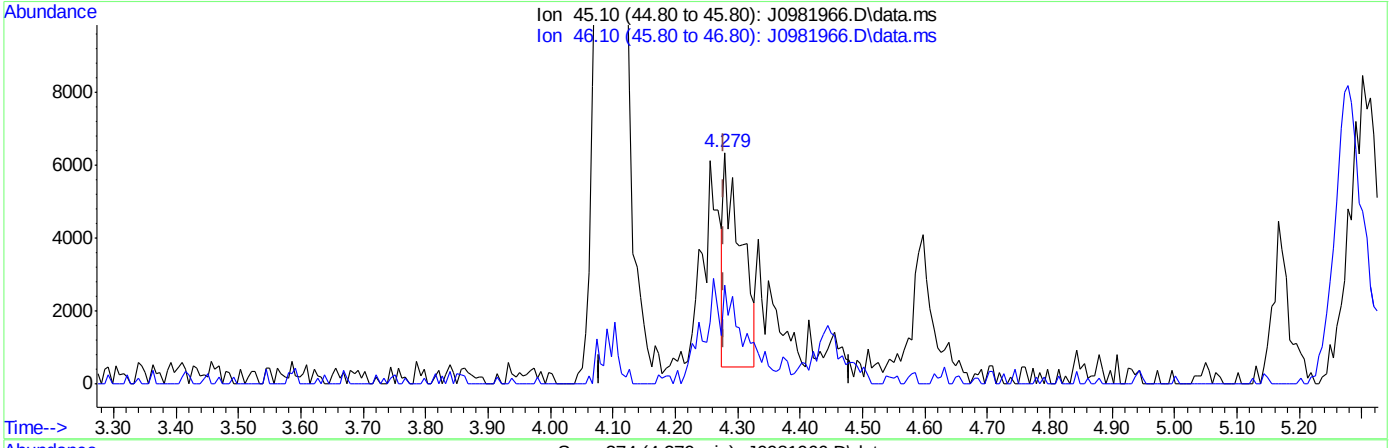
Ion	Exp%	Act%
101.00	100	100
103.00	55.20	59.45
0.00	0.00	0.00
0.00	0.00	0.00

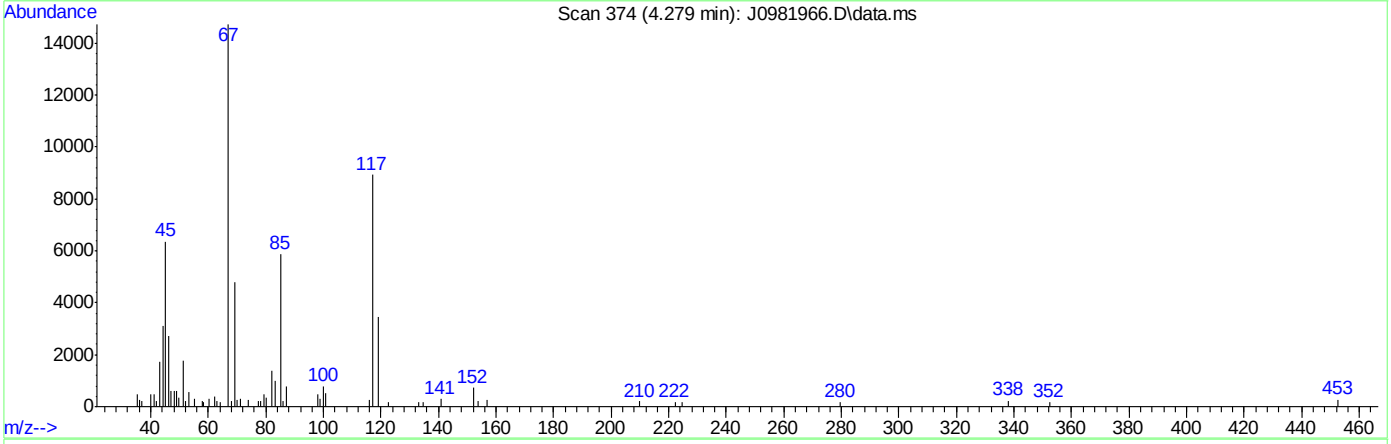
SGS ACCUTEST FA39742

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\010417\
Data File : J0981966.D
Acq On : 4 Jan 2017 5:41 pm
Operator : darshnap
Sample : fa39942-11msd ma Inst : MSVOA6
Misc : MS35997,VJ5532,,,,,
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Jan 05 07:40:54 2017
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jan 03 08:23:52 2017
Response via : Initial Calibration





TIC: J0981966.D\data.ms

(107) Ethanol

4.279min (+0.000) 179.28ug/L

response 11306

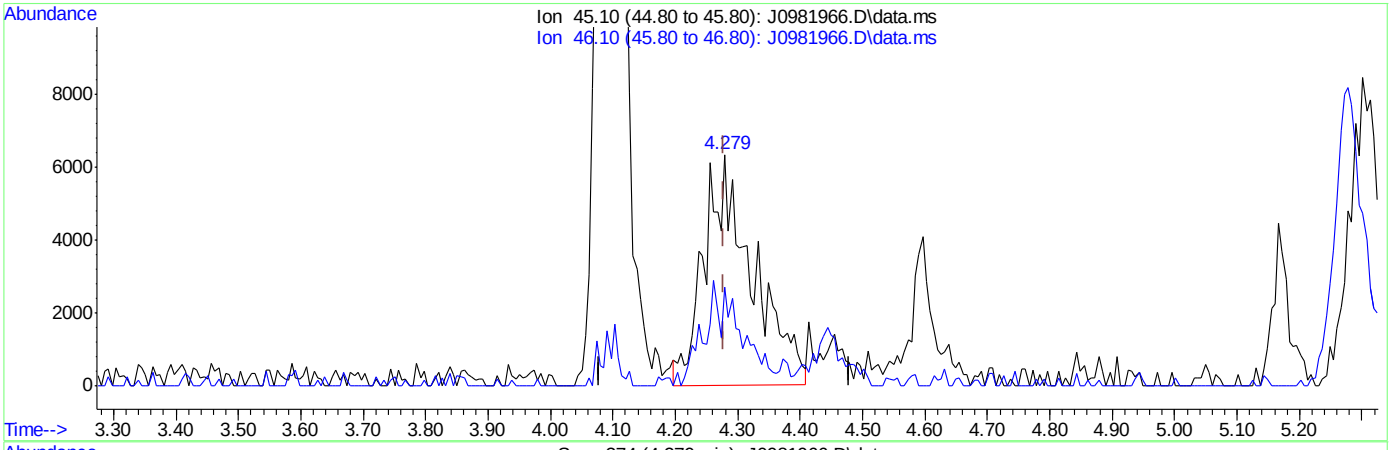
Ion	Exp%	Act%
45.10	100	100
46.10	41.60	37.97
0.00	0.00	0.00
0.00	0.00	0.00

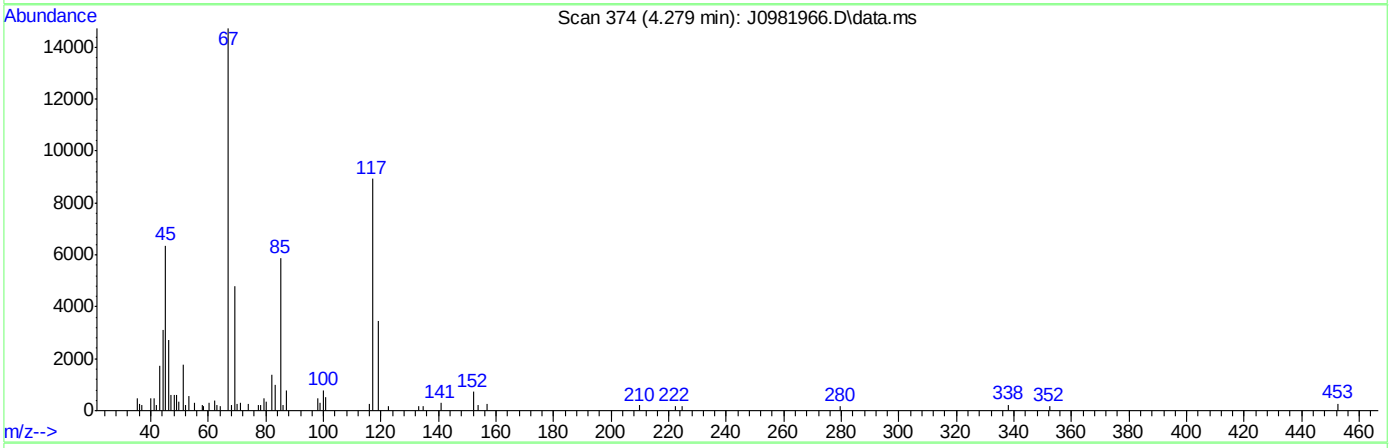
SGS ACCUTEST FA39742

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\010417\
Data File : J0981966.D
Acq On : 4 Jan 2017 5:41 pm
Operator : darshnap
Sample : fa39942-11msd ma Inst : MSVOA6
Misc : MS35997,VJ5532,,,,,
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Jan 05 07:40:54 2017
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jan 03 08:23:52 2017
Response via : Initial Calibration





TIC: J0981966.D\data.ms

(107) Ethanol

4.279min (+0.000) 533.33ug/L m

response 33640

Ion	Exp%	Act%
45.10	100	100
46.10	41.60	42.83
0.00	0.00	0.00
0.00	0.00	0.00

SGS ACCUTEST FA39742

Methods: SW-846 8260B

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Data File : C:\msdchem\2\DATA\122216\I44363.D          Vial: 2
Acq On    : 22 Dec 2016   9:43 am                  Operator: WILFREDO
Sample    : BFB                                    Inst    : MSVOA16
Misc      : MS35881,VI1214,,,,,                    Multiplr: 1.00
MS Integration Params: med.p

Method    : C:\msdchem\2\METHODS\I-DEC22.M (RTE Integrator)
Title     : SW-846 Method 5035A/8260B
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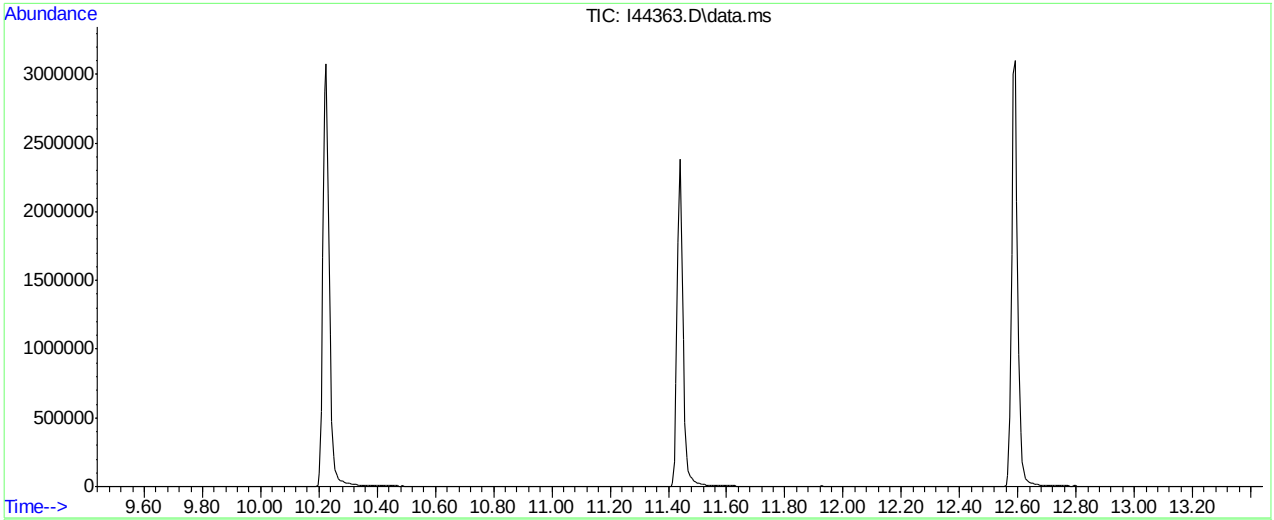
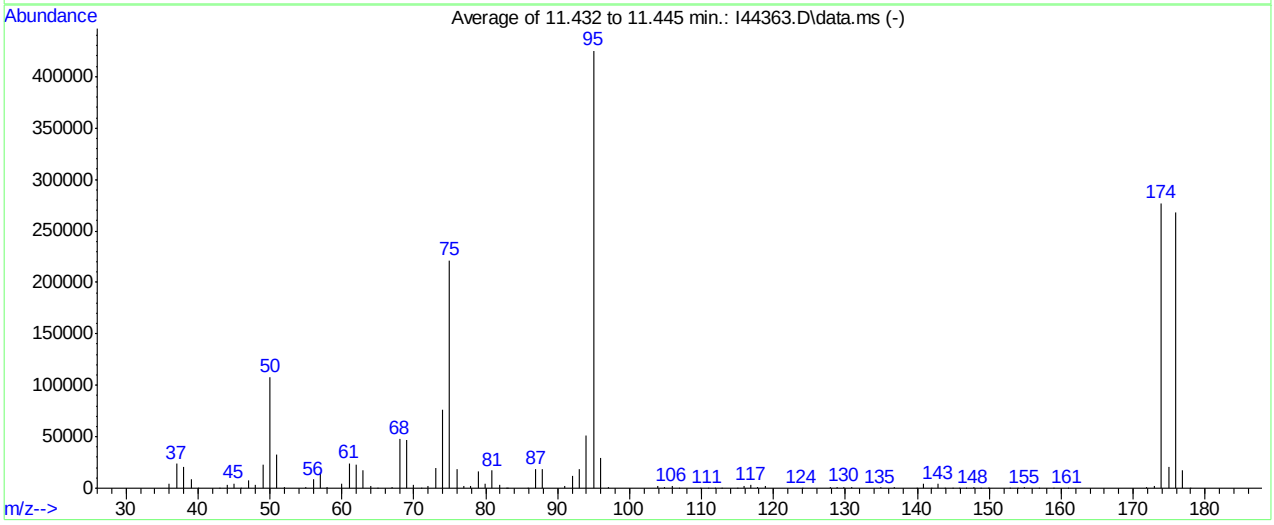




AutoFind: Scans 1533, 1534, 1535; Background Corrected with Scan 1526

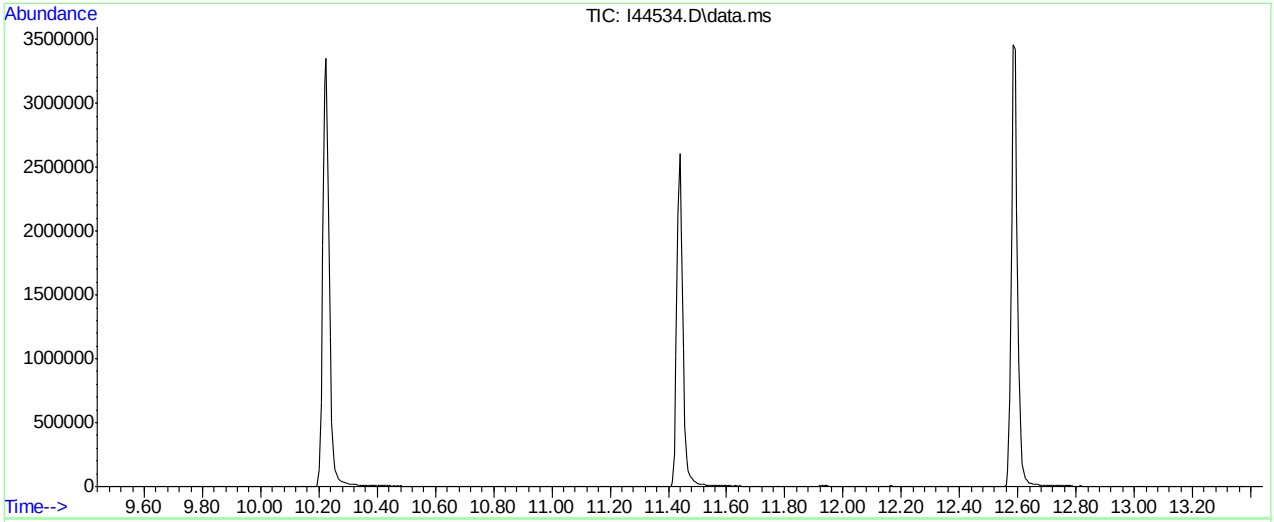
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	25.4	107957	PASS
75	95	30	60	52.1	221397	PASS
95	95	100	100	100.0	425323	PASS
96	95	5	9	6.9	29453	PASS
173	174	0.00	2	1.0	2635	PASS
174	95	50	100	65.1	276843	PASS
175	174	5	9	7.5	20792	PASS
176	174	95	101	96.7	267712	PASS
177	176	5	9	6.5	17473	PASS

I44363.D I-DEC22.M Fri Dec 23 10:21:26 2016

Methods: SW-846 8260B

Data File : C:\msdchem\2\DATA\122816\I44534.D Vial: 2
Acq On : 28 Dec 2016 8:19 am Operator: WILFREDO
Sample : BFB Inst : MSVOA16
Misc : MS35920,VI1222,,,,, Multiplr: 1.00
MS Integration Params: med.p

Method : C:\msdchem\2\METHODS\I-DEC22.M (RTE Integrator)
Title : SW-846 Method 5035A/8260B



AutoFind: Scans 1533, 1534, 1535; Background Corrected with Scan 1526

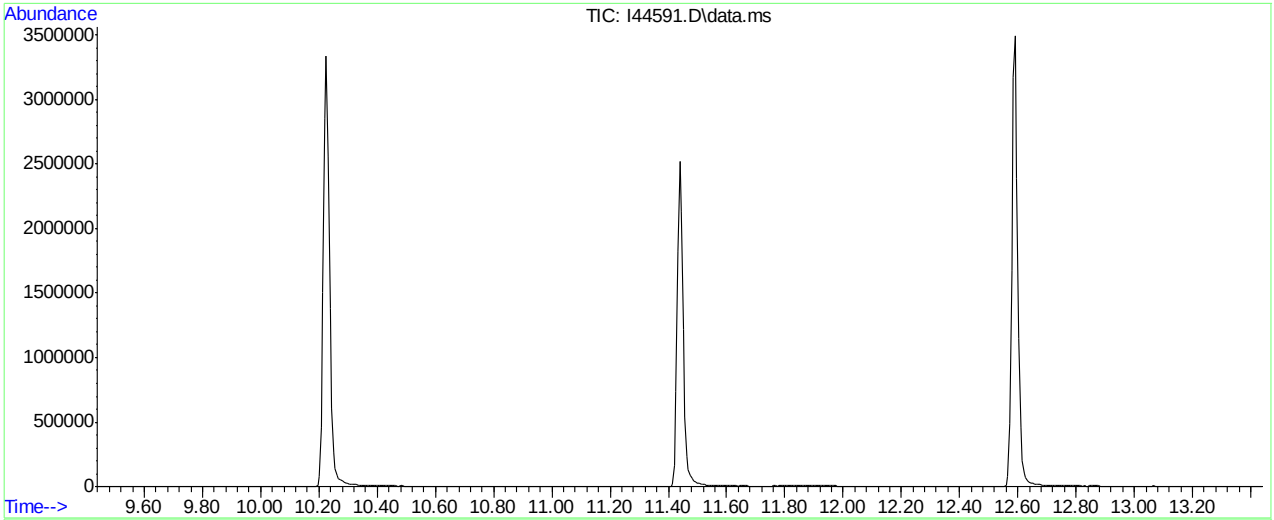
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	24.0	114989	PASS
75	95	30	60	51.1	244224	PASS
95	95	100	100	100.0	478229	PASS
96	95	5	9	6.8	32755	PASS
173	174	0.00	2	0.9	3006	PASS
174	95	50	100	66.8	319381	PASS
175	174	5	9	7.5	24048	PASS
176	174	95	101	96.0	306581	PASS
177	176	5	9	6.6	20299	PASS

I44534.D I-DEC22.M Wed Dec 28 09:58:38 2016

Methods: SW-846 8260B

```
Data File : C:\msdchem\2\DATA\122916\I44591.D            Vial: 2
Acq On    : 29 Dec 2016   8:06 am                    Operator: WILFREDO
Sample    : BFB                                      Inst    : MSVOA16
Misc      : MS35941,VI1226,,,,,                      Multiplr: 1.00
MS Integration Params: med.p

Method    : C:\msdchem\2\METHODS\I-DEC22.M (RTE Integrator)
Title     : SW-846 Method 5035A/8260B
```



AutoFind: Scans 1533, 1534, 1535; Background Corrected with Scan 1527

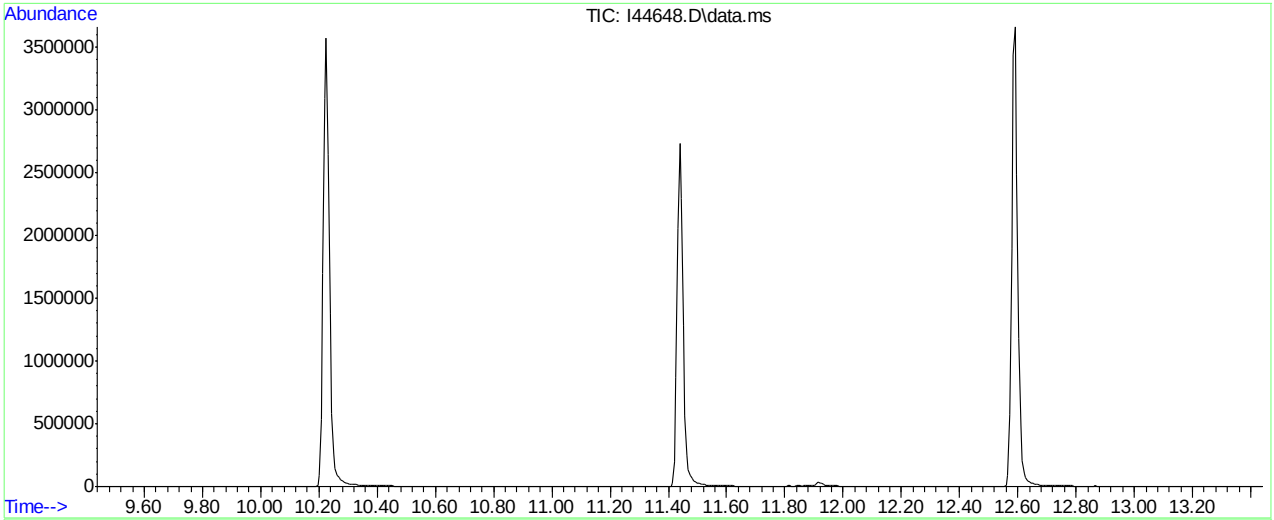
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	24.9	114704	PASS
75	95	30	60	51.5	237248	PASS
95	95	100	100	100.0	461013	PASS
96	95	5	9	6.7	30829	PASS
173	174	0.00	2	1.0	2802	PASS
174	95	50	100	63.3	291605	PASS
175	174	5	9	7.4	21459	PASS
176	174	95	101	96.5	281387	PASS
177	176	5	9	6.5	18266	PASS

I44591.D I-DEC22.M Thu Dec 29 16:16:38 2016

Methods: SW-846 8260B

Data File : C:\msdchem\2\DATA\123016\I44648.D Vial: 2
Acq On : 30 Dec 2016 9:10 am Operator: WILFREDO
Sample : BFB Inst : MSVOA16
Misc : MS35962,VI1229,,,,, Multiplr: 1.00
MS Integration Params: med.p

Method : C:\msdchem\2\METHODS\I-DEC22.M (RTE Integrator)
Title : SW-846 Method 5035A/8260B



AutoFind: Scans 1533, 1534, 1535; Background Corrected with Scan 1526

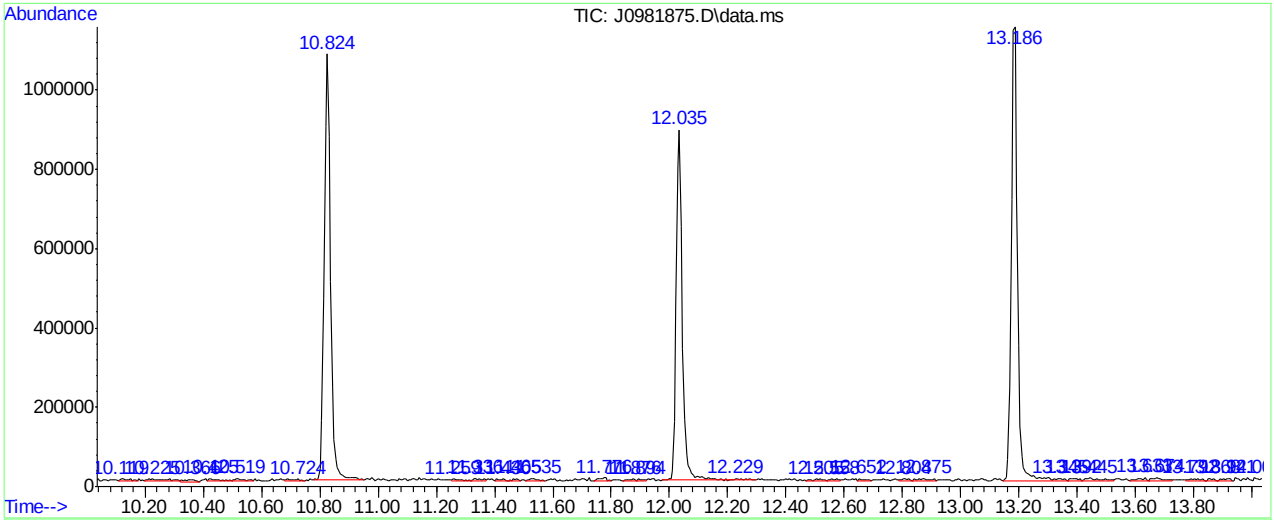
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	23.9	119816	PASS
75	95	30	60	51.4	257216	PASS
95	95	100	100	100.0	500907	PASS
96	95	5	9	7.0	35040	PASS
173	174	0.00	2	0.9	3027	PASS
174	95	50	100	66.9	335253	PASS
175	174	5	9	7.5	25187	PASS
176	174	95	101	96.3	322880	PASS
177	176	5	9	6.7	21685	PASS

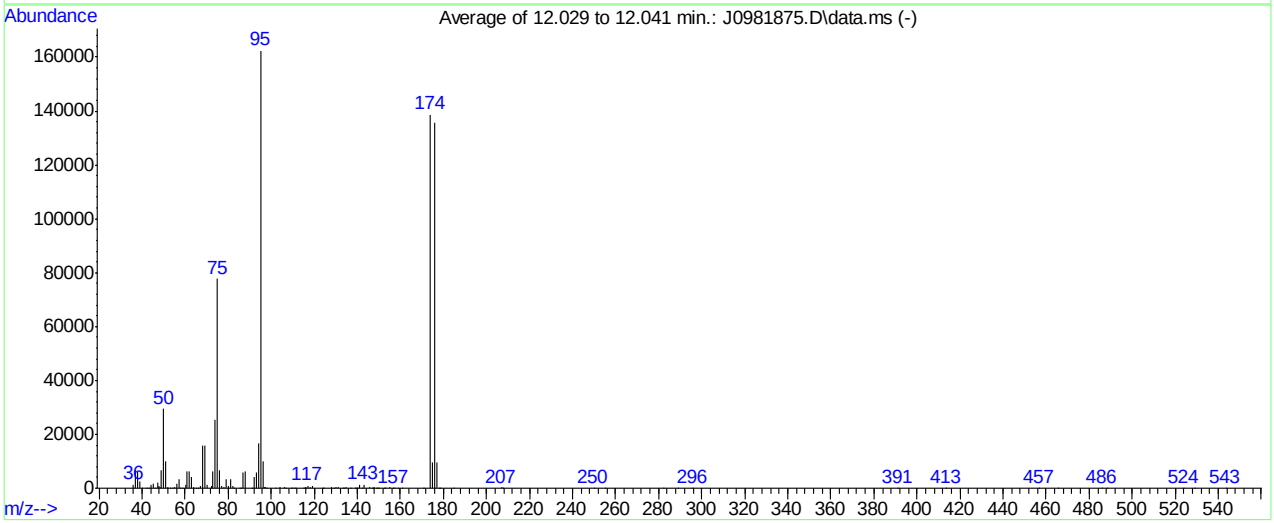
I44648.D I-DEC22.M Fri Dec 30 11:10:44 2016

Methods: SW-846 8260B

Data File : C:\msdchem\1\data\123016\J0981875.D Vial: 1
Acq On : 30 Dec 2016 12:21 pm Operator: melissam
Sample : BFB Inst : MSVOA6
Misc : MS35465,vj5529,,,,, Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\msdchem\1\methods\MSJ123016.M (RTE Integrator)
Title : SW-846 Method 5030B/8260B & EPA 624





AutoFind: Scans 1693, 1694, 1695; Background Corrected with Scan 1686

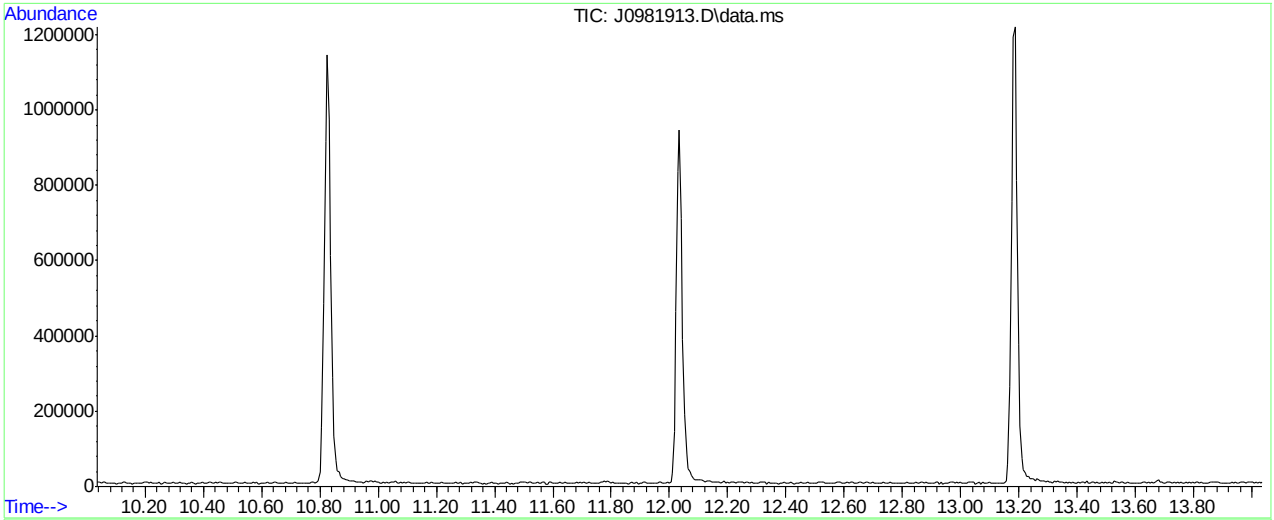
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	18.2	29543	PASS
75	95	30	60	47.9	77797	PASS
95	95	100	100	100.0	162453	PASS
96	95	5	9	6.1	9903	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	85.4	138717	PASS
175	174	5	9	6.8	9378	PASS
176	174	95	101	97.7	135477	PASS
177	176	5	9	7.1	9616	PASS

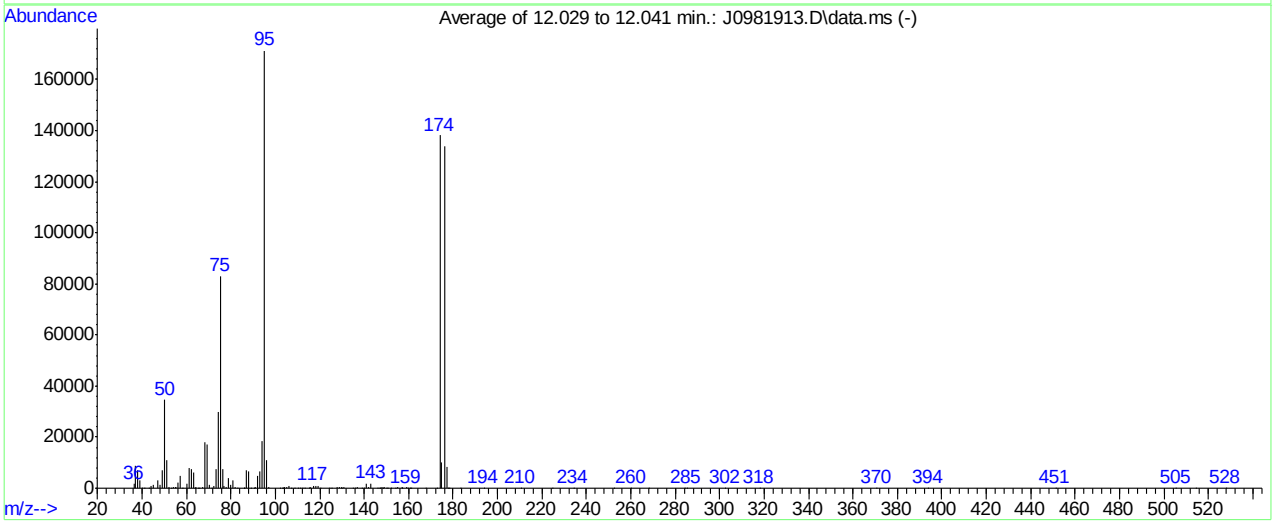
J0981875.D MSJ123016.M Tue Jan 03 10:04:04 2017

Methods: SW-846 8260B

Data File : C:\msdchem\1\data\010317\J0981913.D Vial: 1
Acq On : 3 Jan 2017 8:36 am Operator: darshnap
Sample : bfb Inst : MSVOA6
Misc : MS35465,VJ5530,,,,, Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\msdchem\1\methods\MSJ123016.M (RTE Integrator)
Title : SW-846 Method 5030B/8260B & EPA 624





AutoFind: Scans 1693, 1694, 1695; Background Corrected with Scan 1686

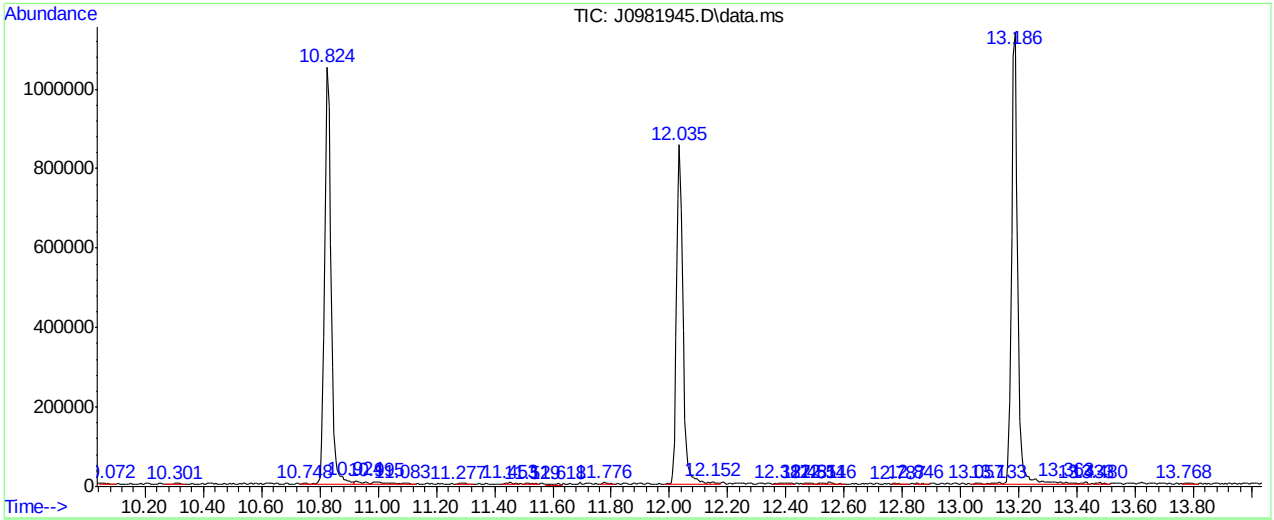
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	20.1	34517	PASS
75	95	30	60	48.4	82979	PASS
95	95	100	100	100.0	171349	PASS
96	95	5	9	6.4	10981	PASS
173	174	0.00	2	0.1	188	PASS
174	95	50	100	80.6	138147	PASS
175	174	5	9	7.3	10114	PASS
176	174	95	101	96.9	133837	PASS
177	176	5	9	6.3	8421	PASS

J0981913.D MSJ123016.M Tue Jan 03 10:55:27 2017

Methods: SW-846 8260B

Data File : C:\msdchem\1\data\010417\J0981945.D Vial: 1
Acq On : 4 Jan 2017 8:13 am Operator: darshnap
Sample : BFB Inst : MSVOA6
Misc : MS35986,VJ5532,,,,, Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\msdchem\1\methods\MSJ123016.M (RTE Integrator)
Title : SW-846 Method 5030B/8260B & EPA 624



AutoFind: Scans 1693, 1694, 1695; Background Corrected with Scan 1686

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	21.9	35117	PASS
75	95	30	60	49.5	79232	PASS
95	95	100	100	100.0	160107	PASS
96	95	5	9	7.3	11632	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	74.8	119813	PASS
175	174	5	9	7.2	8617	PASS
176	174	95	101	96.6	115707	PASS
177	176	5	9	6.3	7338	PASS

J0981945.D MSJ123016.M Wed Jan 04 10:06:38 2017

Manual Integrations APPROVED (compounds with "m" flag)
Juan Garcia
12/23/16 14:50

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\122216\
Data File : I44364.D
Acq On : 22 Dec 2016 10:11 am
Operator : WILFREDO
Sample : IC1214-1 Inst : MSVOA16
Misc : MS35881,VI1214,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 22 12:57:36 2016
Quant Method : C:\msdchem\2\METHODS\I-DEC22.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon Nov 28 10:18:42 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.110	96	2101093	50.00	ug/L	0.00
56) Chlorobenzene-d5	10.226	117	1413032	50.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	12.591	152	656669	50.00	ug/L	0.00
106) Tert Butyl Alcohol-d10	4.690	65	177482	250.00	ug/L	0.00
System Monitoring Compounds						
36) Dibromofluoromethane	6.275	113	517352	49.41	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 98.82%			
46) 1,2-Dichloroethane-d4	6.830	65	782088	56.30	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 112.60%			
57) Toluene-d8	8.677	98	1955774	50.06	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 100.12%			
79) 4-Bromofluorobenzene	11.439	174	472094	48.45	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 96.90%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.276	85	13870	0.91	ug/L	100
3) Chloromethane	2.477	50	22105	1.21	ug/L	100
4) 1,3-Butadiene	2.605	39	15358	1.19	ug/L	100
5) Vinyl Chloride	2.587	62	15634	1.10	ug/L	94
6) Bromomethane	2.977	94	6993	1.50	ug/L	98
7) Chloroethane	3.135	64	8407	1.54	ug/L	99
8) Trichlorofluoromethane	3.294	101	15768	1.16	ug/L	95
9) Ethyl Ether	3.587	59	12757	1.19	ug/L	93
10) 1,2-Dichlorotrifluoroe...	3.776	67	14381m	1.15	ug/L	
11) 1,1-Dichloroethene	3.824	61	19207	1.08	ug/L	96
12) Freon 113	3.891	101	10641	1.06	ug/L	95
13) Carbon Disulfide	3.885	76	30390	0.97	ug/L	98
14) Iodomethane	3.989	142	15254	0.99	ug/L	89
15) Allyl chloride	4.318	41	11166	0.84	ug/L	96
16) Methylene Chloride	4.434	49	36571	2.10	ug/L	94
17) Acetone	4.495	43	17060m	5.70	ug/L	
18) Methyl acetate	4.611	43	36452m	5.13	ug/L	
19) trans-1,2-Dichloroethene	4.617	61	16777	1.04	ug/L	97
20) Hexane	4.696	56	14219	1.12	ug/L #	90
21) Methyl Tert Butyl Ether	4.708	73	28545	1.04	ug/L	88
22) Acetonitrile	5.001	41	7551m	8.05	ug/L	
23) Di-isopropyl ether	5.086	45	41254	1.02	ug/L	94
24) Chloroprene	5.239	53	14881	0.76	ug/L	91
25) 1,1-Dichloroethane	5.257	63	21706	1.05	ug/L	96
26) Acrylonitrile	5.336	53	21518m	4.99	ug/L	
27) ETBE	5.470	59	34550	0.93	ug/L	92
28) Vinyl acetate	5.495	43	98179	4.08	ug/L	93
29) cis-1,2-Dichloroethene	5.830	96	10332	0.89	ug/L	94
30) 2,2-Dichloropropane	5.934	77	10683	1.05	ug/L	96
31) Bromochloromethane	6.037	128	4821	0.94	ug/L #	74
32) Cyclohexane	6.062	56	21132	0.96	ug/L	93
33) Chloroform	6.092	83	23575	1.20	ug/L	96
34) Ethyl acetate	6.202	43	36741m	3.78	ug/L	

SGS ACCUTEST FA39742

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\122216\
Data File : I44364.D
Acq On : 22 Dec 2016 10:11 am
Operator : WILFREDO
Sample : IC1214-1 Inst : MSVOA16
Misc : MS35881,VI1214,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 22 12:57:36 2016
Quant Method : C:\msdchem\2\METHODS\I-DEC22.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon Nov 28 10:18:42 2016
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
35)	Tetrahydrofuran	6.281	42	5969	2.11	ug/L		83
37)	Carbon Tetrachloride	6.269	117	10771m	0.92	ug/L		
38)	1,1,1-Trichloroethane	6.330	97	16092	1.03	ug/L		92
39)	2-Butanone	6.427	43	19041m	4.63	ug/L		
40)	1,1-Dichloropropene	6.458	75	13191	0.91	ug/L		88
41)	tert-Butyl formate	6.537	59	65010	8.62	ug/L	#	75
42)	Propionitrile	6.714	54	13558	8.63	ug/L	#	1
43)	Methacrylonitrile	6.726	41	67801	11.00	ug/L		97
44)	Benzene	6.708	78	38904	0.95	ug/L		93
45)	TAME	6.793	73	25766	0.95	ug/L		77
47)	1,2-Dichloroethane	6.909	62	21070	1.29	ug/L		95
48)	Trichloroethene	7.305	95	12082	1.08	ug/L		94
49)	Methylcyclohexane	7.305	83	16372	0.89	ug/L		84
50)	Dibromomethane	7.738	93	6210	0.98	ug/L		94
51)	1,2-Dichloropropane	7.817	63	11548	0.98	ug/L		89
52)	Bromodichloromethane	7.866	83	10414	0.84	ug/L		96
53)	Methyl methacrylate	8.037	41	4264	0.54	ug/L	#	71
54)	2-Chloroethyl vinyl ether	8.415	63	19975	3.13	ug/L		93
55)	cis-1,3-Dichloropropene	8.494	75	9447	0.68	ug/L		81
58)	Toluene	8.732	91	40835	0.97	ug/L		98
59)	2-Nitropropane	8.939	41	9243	4.42	ug/L		87
60)	4-Methyl-2-pentanone	9.073	43	44740	4.67	ug/L		94
61)	trans-1,3-Dichloropropene	9.140	75	6847	0.61	ug/L		84
62)	Tetrachloroethene	9.134	166	8827	0.88	ug/L		97
63)	Ethyl methacrylate	9.268	69	5492	0.48	ug/L		85
64)	1,1,2-Trichloroethane	9.293	83	7753	1.01	ug/L		91
65)	Dibromochloromethane	9.488	129	5156	0.66	ug/L		94
66)	1,3-Dichloropropane	9.567	76	15609	0.96	ug/L		87
67)	1,2-Dibromoethane	9.744	107	7070	0.83	ug/L		98
68)	2-hexanone	9.908	43	20171	3.22	ug/L		93
69)	1-Chlorohexane	10.195	91	11086	0.78	ug/L	#	82
70)	Ethylbenzene	10.256	91	43666	0.93	ug/L		93
71)	Chlorobenzene	10.244	112	29044	1.07	ug/L		94
72)	1,1,1,2-Tetrachloroethane	10.299	131	6972	0.82	ug/L	#	69
73)	m,p-Xylene	10.396	91	56865	1.61	ug/L		99
74)	o-Xylene	10.835	91	28272	0.78	ug/L		99
75)	Styrene	10.890	104	14390	0.56	ug/L		94
76)	Bromoform	10.939	173	1601	0.46	ug/L		91
77)	Isopropylbenzene	11.140	105	31469	0.74	ug/L		99
81)	n-Propylbenzene	11.561	91	45962	0.91	ug/L		96
82)	Bromobenzene	11.567	156	9161	0.90	ug/L		93
83)	1,1,2,2-Tetrachloroethane	11.622	83	11818	1.06	ug/L		98
84)	1,3,5-Trimethylbenzene	11.750	105	24157	0.69	ug/L		98
85)	2-Chlorotoluene	11.743	91	32800	0.96	ug/L		95
87)	1,2,3-Trichloropropane	11.774	110	2922	1.00	ug/L		88
88)	Cyclohexanone	11.835	55	1638	4.22	ug/L	#	86
89)	4-Chlorotoluene	11.914	91	28126	0.90	ug/L		98
90)	tert-Butylbenzene	12.079	91	18046	0.87	ug/L		85
91)	a-Methyl styrene	12.012	118	9313	0.54	ug/L		95
92)	1,2,4-Trimethylbenzene	12.152	105	24454	0.71	ug/L		97

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\122216\
Data File : I44364.D
Acq On : 22 Dec 2016 10:11 am
Operator : WILFREDO
Sample : IC1214-1 Inst : MSVOA16
Misc : MS35881,VI1214,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 22 12:57:36 2016
Quant Method : C:\msdchem\2\METHODS\I-DEC22.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon Nov 28 10:18:42 2016
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
93)	Pentachloroethane	12.128	167	3382	0.79	ug/L	#	55
94)	sec-Butylbenzene	12.268	105	34978	0.79	ug/L		98
95)	4-Isopropyltoluene	12.402	119	22270	0.62	ug/L		98
96)	1,3-Dichlorobenzene	12.530	146	17463	0.93	ug/L		94
97)	1,4-Dichlorobenzene	12.530	146	17463	0.88	ug/L		94
98)	n-Butylbenzene	12.847	92	14266	0.66	ug/L		86
99)	Benzyl Chloride	12.853	126	1404m	0.49	ug/L		
100)	1,2-Dichlorobenzene	13.054	146	17083	0.94	ug/L		95
101)	1,2-Dibromo-3-Chloropr...	13.841	75	929m	0.64	ug/L		
102)	Hexachlorobutadiene	14.414	225	4487	0.87	ug/L		96
103)	1,2,4-Trichlorobenzene	14.456	180	8139	0.68	ug/L		92
104)	Naphthalene	14.737	128	14350	0.56	ug/L		98
105)	1,2,3-Trichlorobenzene	14.889	180	7991	0.74	ug/L		96
107)	Ethanol	3.751	45	4187m	37.69	ug/L		
108)	Acrolein	4.184	56	7313	4.44	ug/L		94
109)	Tert Butyl Alcohol	4.775	59	10178	11.97	ug/L	#	61
110)	Isobutyl alcohol	6.860	43	5337	15.67	ug/L	#	71
111)	Tert Amyl Alcohol	6.964	59	5815	8.93	ug/L		81
113)	3,3-Dimethyl-1-butanol	9.848	57	21903	30.13	ug/L		97

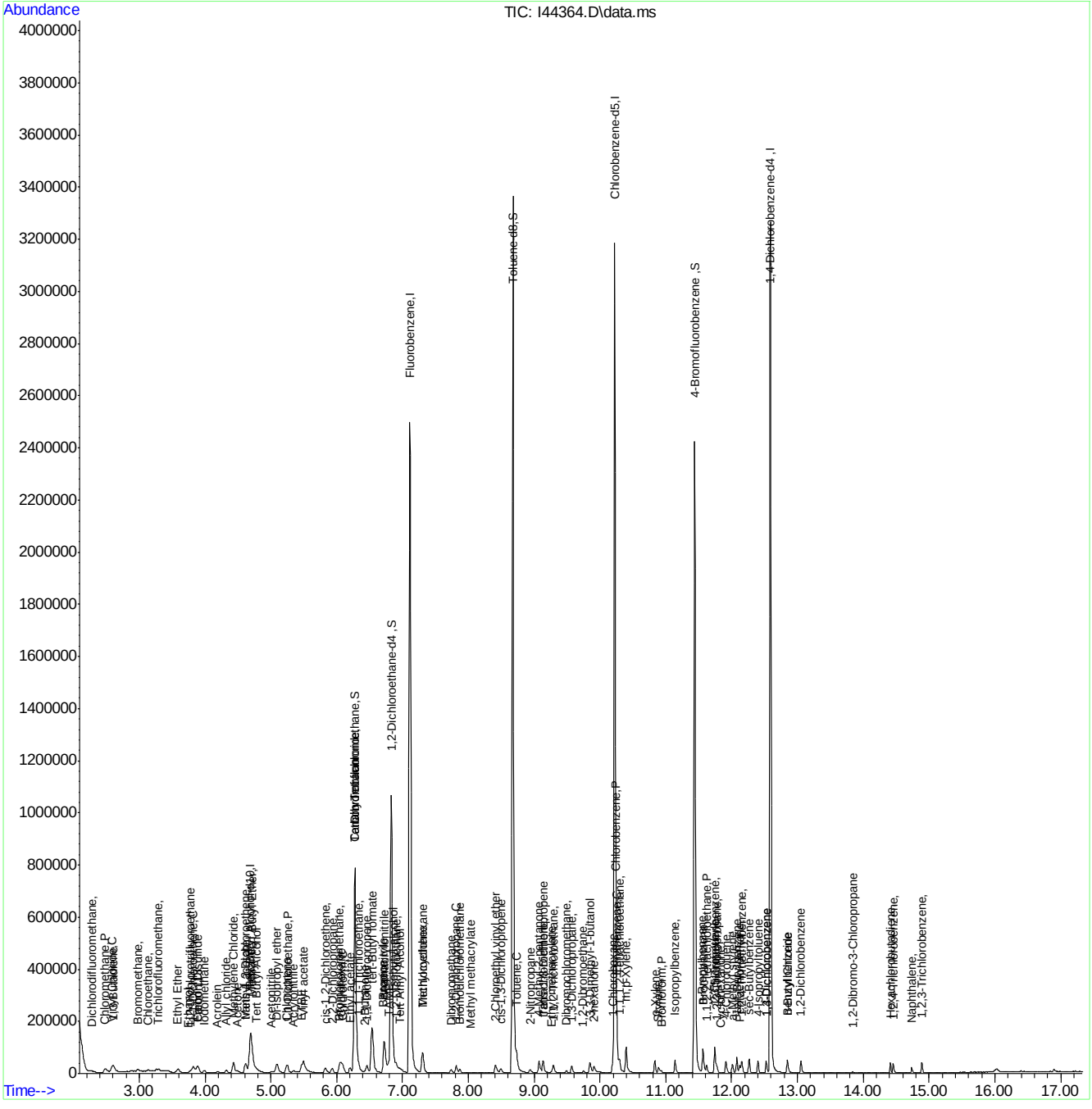
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST FA39742

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\122216\
Data File : I44364.D
Acq On : 22 Dec 2016 10:11 am
Operator : WILFREDO
Sample : IC1214-1 Inst : MSVOA16
Misc : MS35881,VI1214,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 22 12:57:36 2016
Quant Method : C:\msdchem\2\METHODS\I-DEC22.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon Nov 28 10:18:42 2016
Response via : Initial Calibration



SGS ACCUTEST FA39742

Manual Integration Approval Summary

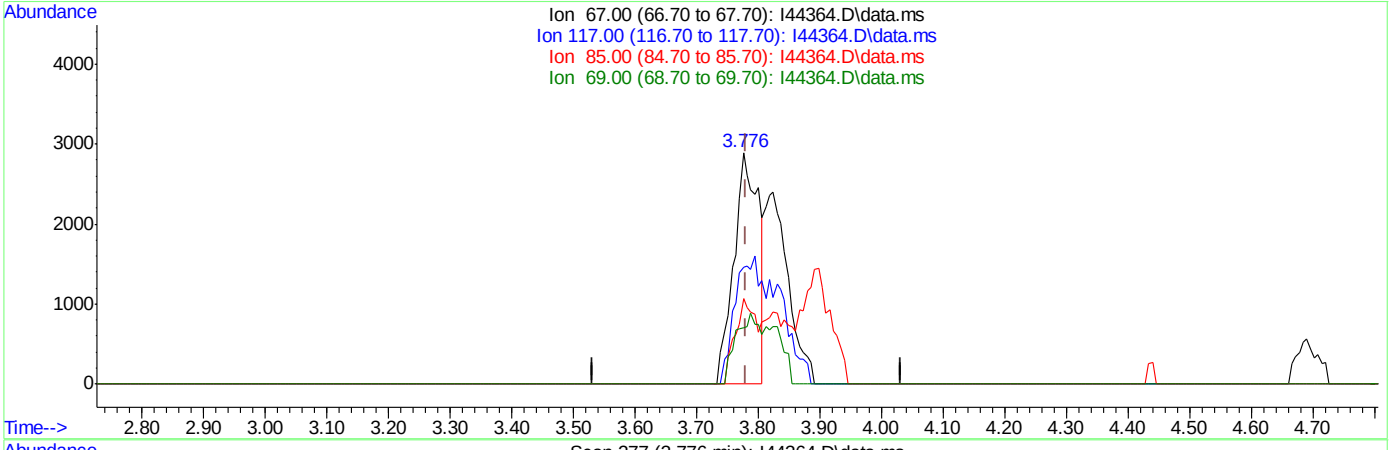
Sample Number: VI1214-IC1214
Lab FileID: I44364.D
Injection Time: 12/22/16 10:11
Method: SW846 8260B
Analyst approved: 12/23/16 14:46 Wilfredo Vazquez
Supervisor approved: 12/23/16 14:50 Juan Garcia

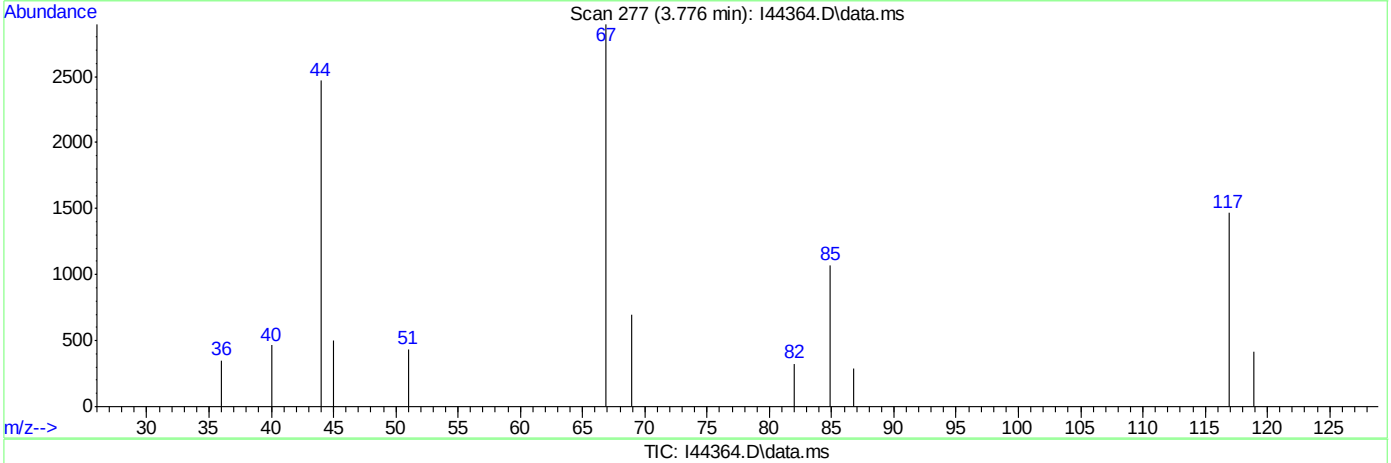
Parameter	CAS	Sig#	R.T. (min.)	Reason
Ethyl Alcohol	64-17-5		3.75	Poor instrument integration
1,2-Dichlorotrifluoroethane	354-23-4		3.78	Split peak
Acetone	67-64-1		4.49	Missed peak
Methyl Acetate	79-20-9		4.61	Missed peak
Acetonitrile	75-05-8		5.00	Poor instrument integration
Acrylonitrile	107-13-1		5.34	Poor instrument integration
Ethyl Acetate	141-78-6		6.20	Missed peak
Carbon Tetrachloride	56-23-5		6.27	Missed peak
2-Butanone (MEK)	78-93-3		6.43	Missed peak
Benzyl Chloride	100-44-7		12.85	Missed peak
1,2-Dibromo-3-chloropropane	96-12-8		13.84	Missed peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\DATA\122216\
Data File : I44364.D
Acq On : 22 Dec 2016 10:11 am
Operator : WILFREDO
Sample : IC1214-1 Inst : MSVOA16
Misc : MS35881,VI1214,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 22 12:42:11 2016
Quant Method : C:\msdchem\2\METHODS\I-DEC22.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon Nov 28 10:18:42 2016
Response via : Initial Calibration





TIC: I44364.D\data.ms

(10) 1,2-Dichlorotrifluoroethane

3.776min (-0.006) 0.65ug/L

response 8104

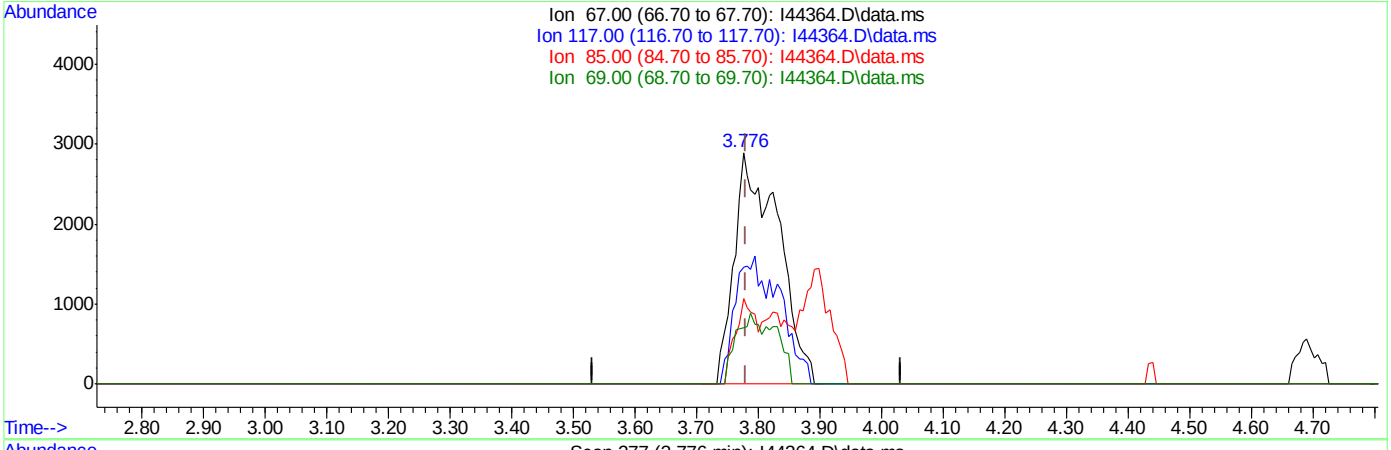
Ion	Exp%	Act%
67.00	100	100
117.00	64.40	50.67
85.00	38.00	36.96
69.00	32.20	24.18

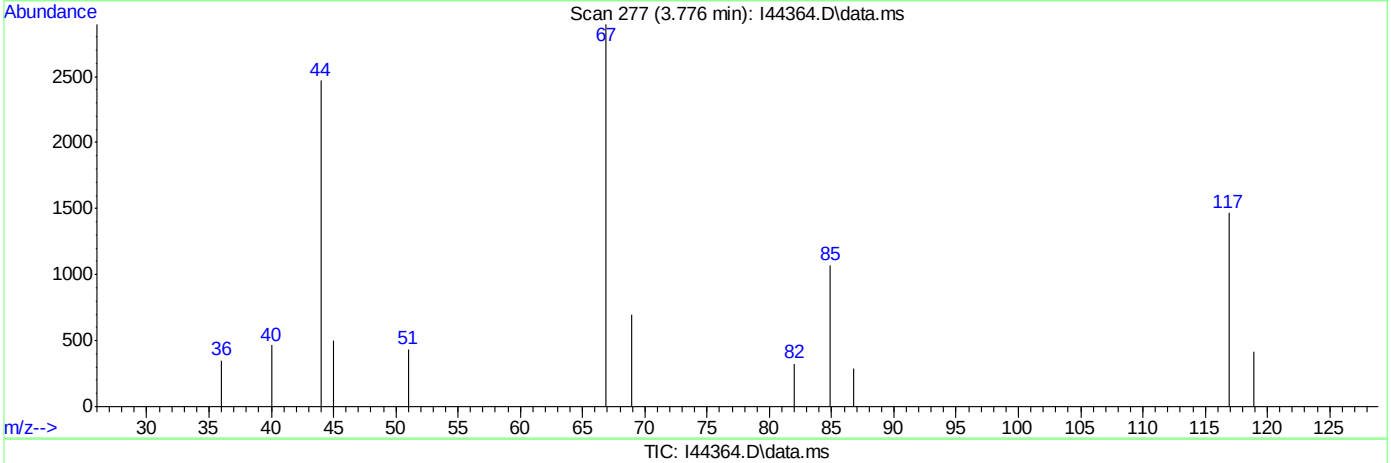
SGS ACCUTEST FA39742

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\DATA\122216\
Data File : I44364.D
Acq On : 22 Dec 2016 10:11 am
Operator : WILFREDO
Sample : IC1214-1 Inst : MSVOA16
Misc : MS35881,VI1214,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 22 12:42:11 2016
Quant Method : C:\msdchem\2\METHODS\I-DEC22.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon Nov 28 10:18:42 2016
Response via : Initial Calibration





TIC: I44364.D\data.ms

(10) 1,2-Dichlorotrifluoroethane

3.776min (-0.006) 1.15ug/L m

response 14381

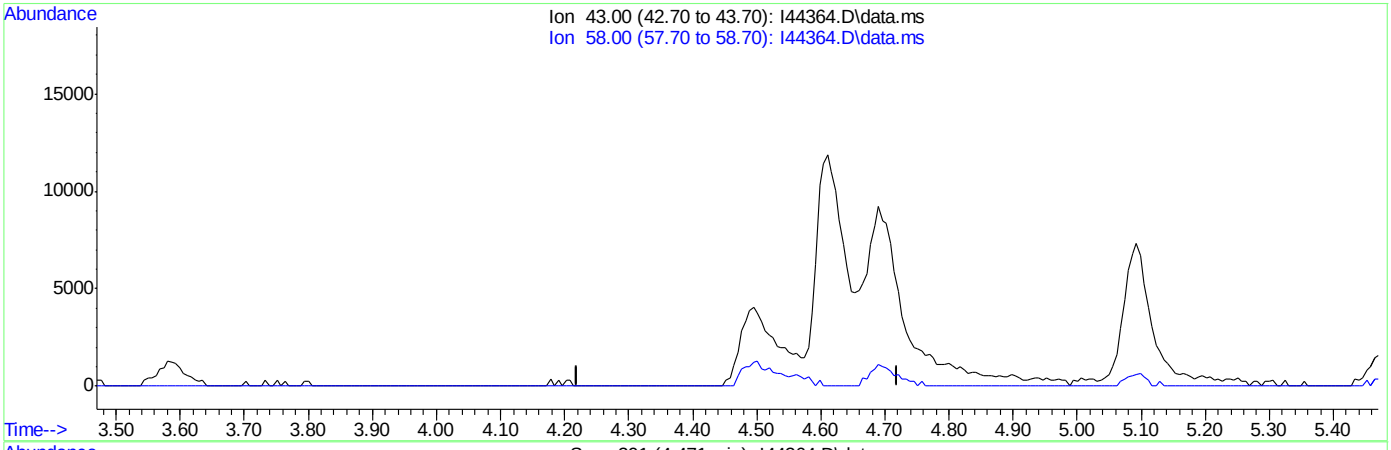
Ion	Exp%	Act%
67.00	100	100
117.00	64.40	50.67
85.00	38.00	36.96
69.00	32.20	24.18

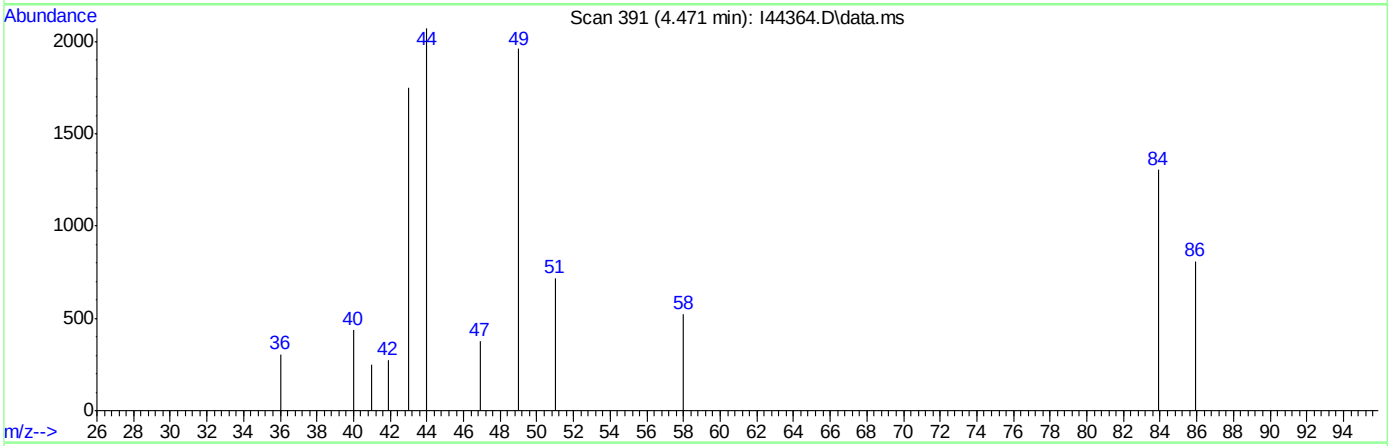
SGS ACCUTEST FA39742

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\DATA\122216\
Data File : I44364.D
Acq On : 22 Dec 2016 10:11 am
Operator : WILFREDO
Sample : IC1214-1 Inst : MSVOA16
Misc : MS35881,VI1214,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 22 12:42:11 2016
Quant Method : C:\msdchem\2\METHODS\I-DEC22.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon Nov 28 10:18:42 2016
Response via : Initial Calibration





TIC: I44364.D\data.ms

(17) Acetone

4.470min (-4.470) 0.00ug/L

response 0

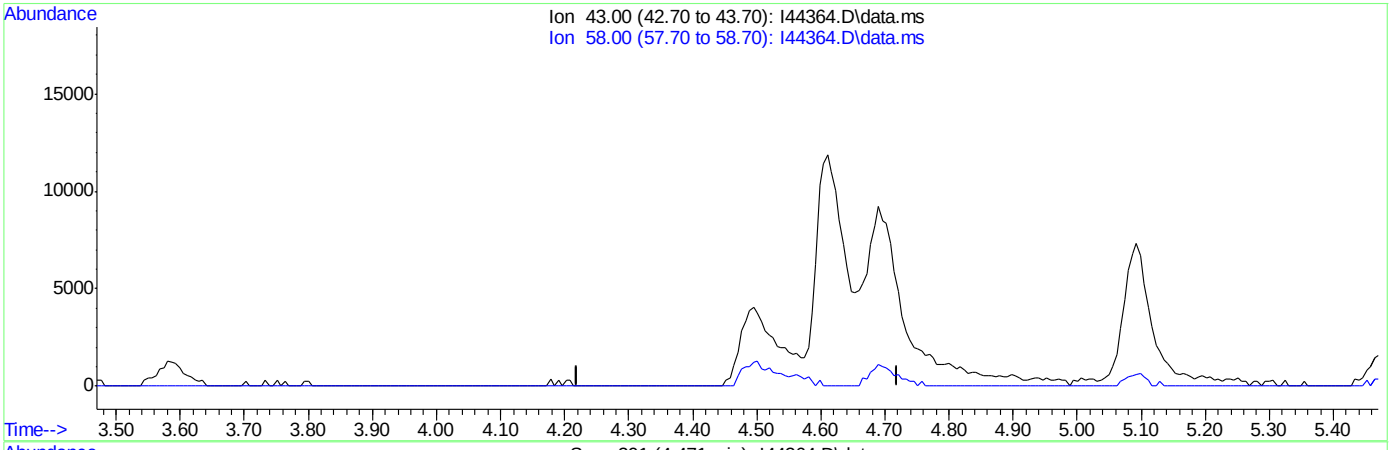
Ion	Exp%	Act%
43.00	100	0.00
58.00	33.70	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

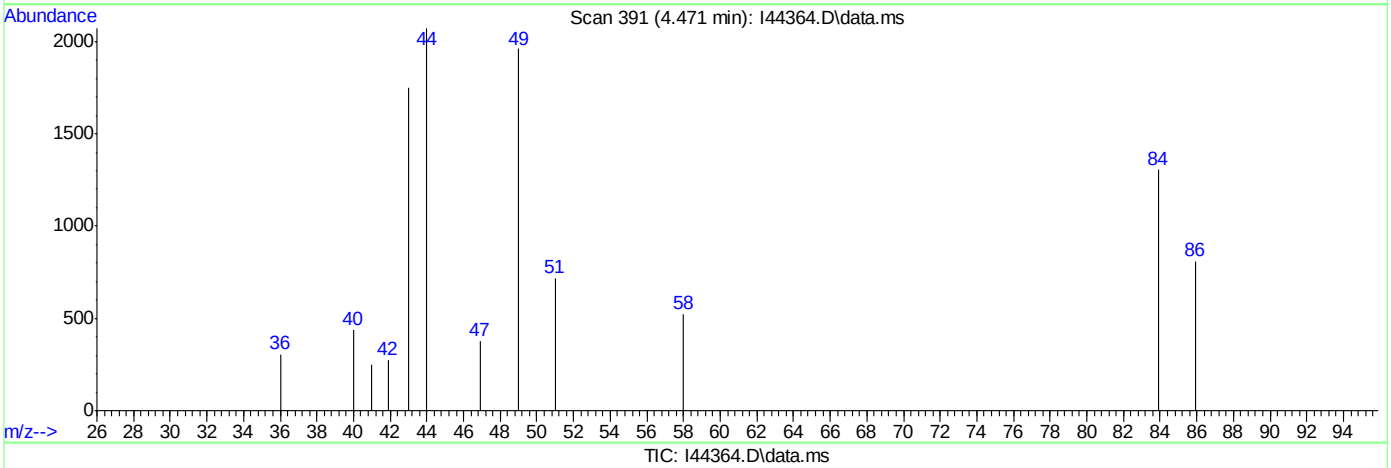
SGS ACCUTEST FA39742

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\DATA\122216\
Data File : I44364.D
Acq On : 22 Dec 2016 10:11 am
Operator : WILFREDO
Sample : IC1214-1 Inst : MSVOA16
Misc : MS35881,VI1214,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 22 12:42:11 2016
Quant Method : C:\msdchem\2\METHODS\I-DEC22.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon Nov 28 10:18:42 2016
Response via : Initial Calibration





(17) Acetone

4.470min (-4.470) 0.00ug/L

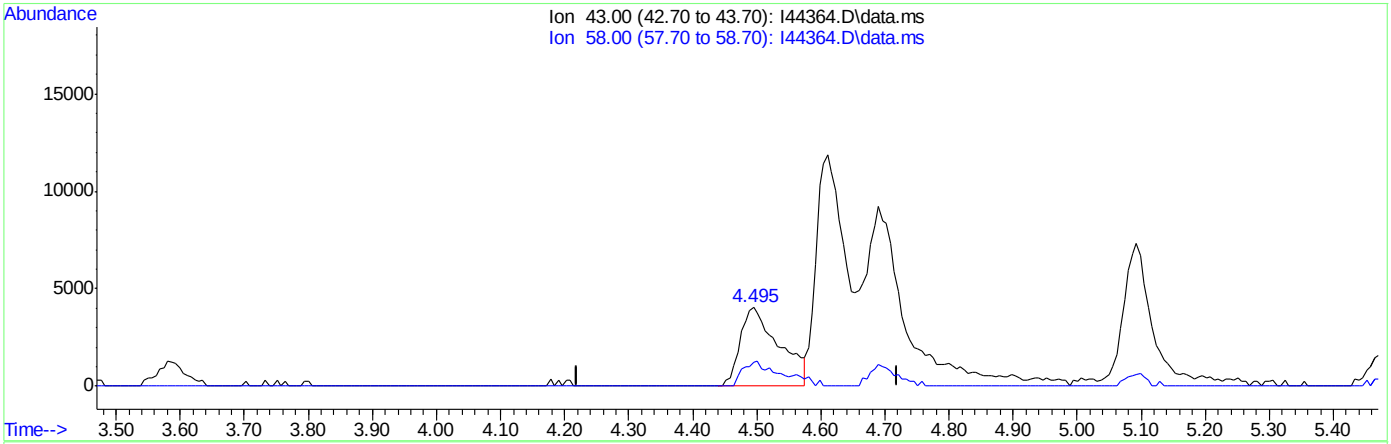
response 0

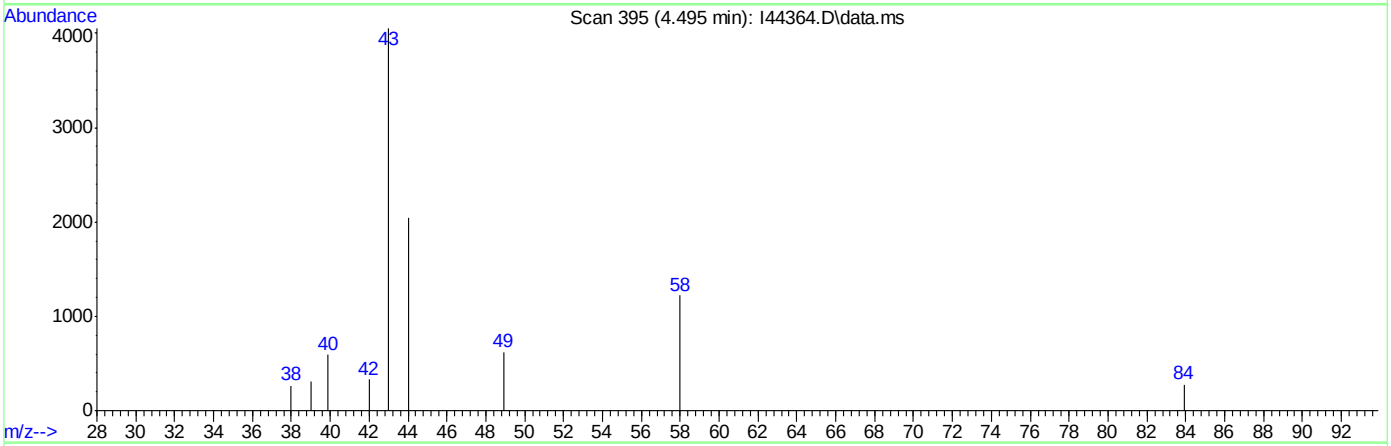
Ion	Exp%	Act%
43.00	100	0.00
58.00	33.70	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\DATA\122216\
Data File : I44364.D
Acq On : 22 Dec 2016 10:11 am
Operator : WILFREDO
Sample : IC1214-1 Inst : MSVOA16
Misc : MS35881,VI1214,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 22 12:42:11 2016
Quant Method : C:\msdchem\2\METHODS\I-DEC22.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon Nov 28 10:18:42 2016
Response via : Initial Calibration





TIC: I44364.D\data.ms

(17) Acetone

4.495min (+0.025) 5.70ug/L m

response 17060

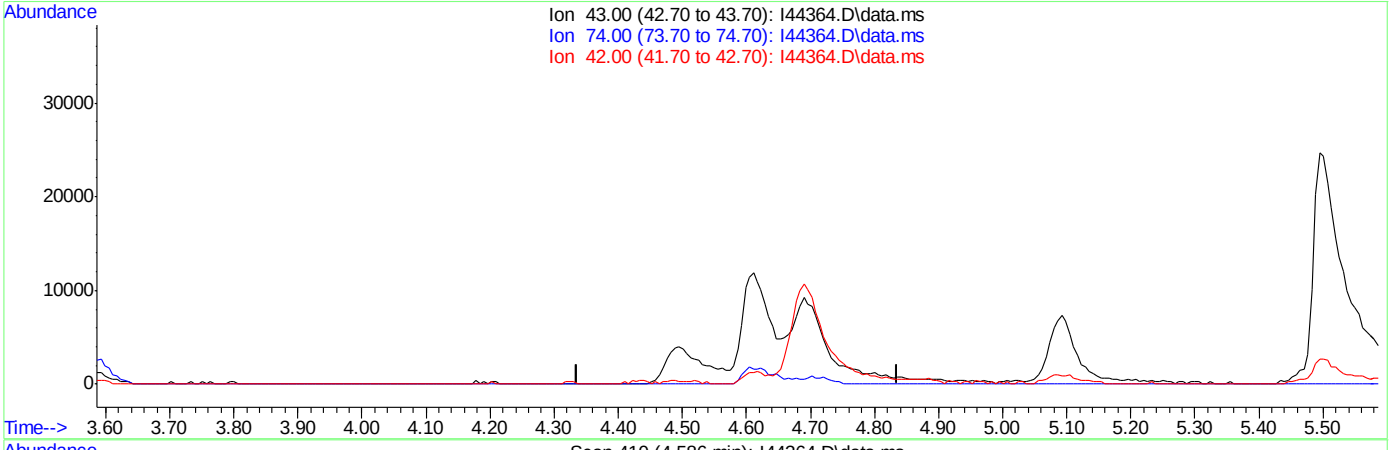
Ion	Exp%	Act%
43.00	100	100
58.00	33.70	30.12
0.00	0.00	0.00
0.00	0.00	0.00

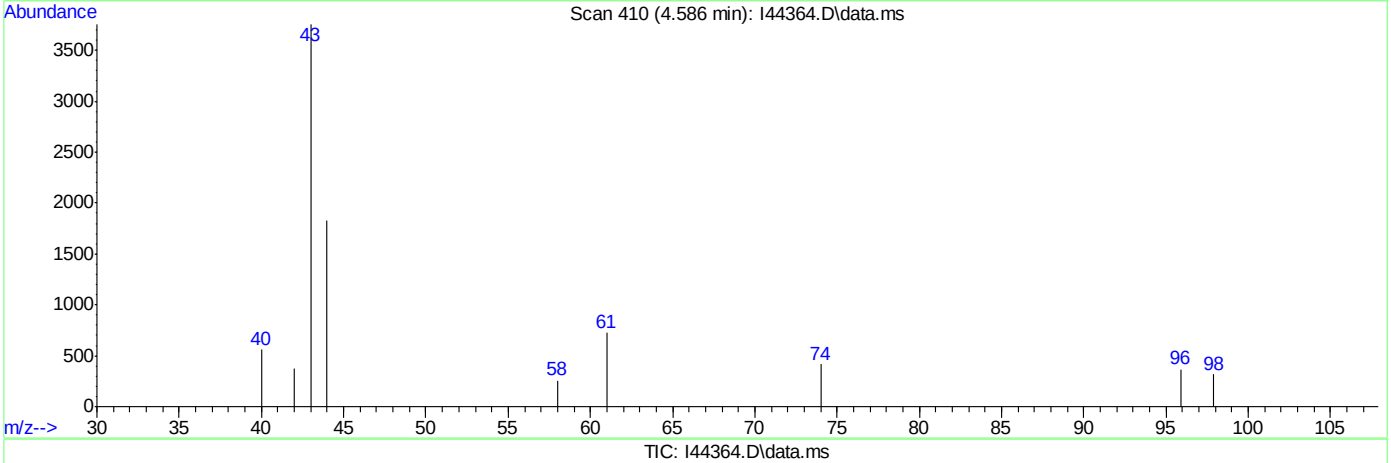
SGS ACCUTEST FA39742

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\DATA\122216\
Data File : I44364.D
Acq On : 22 Dec 2016 10:11 am
Operator : WILFREDO
Sample : IC1214-1 Inst : MSVOA16
Misc : MS35881,VI1214,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 22 12:42:11 2016
Quant Method : C:\msdchem\2\METHODS\I-DEC22.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon Nov 28 10:18:42 2016
Response via : Initial Calibration





TIC: I44364.D\data.ms

(18) Methyl acetate

4.586min (-4.586) 0.00ug/L

response 0

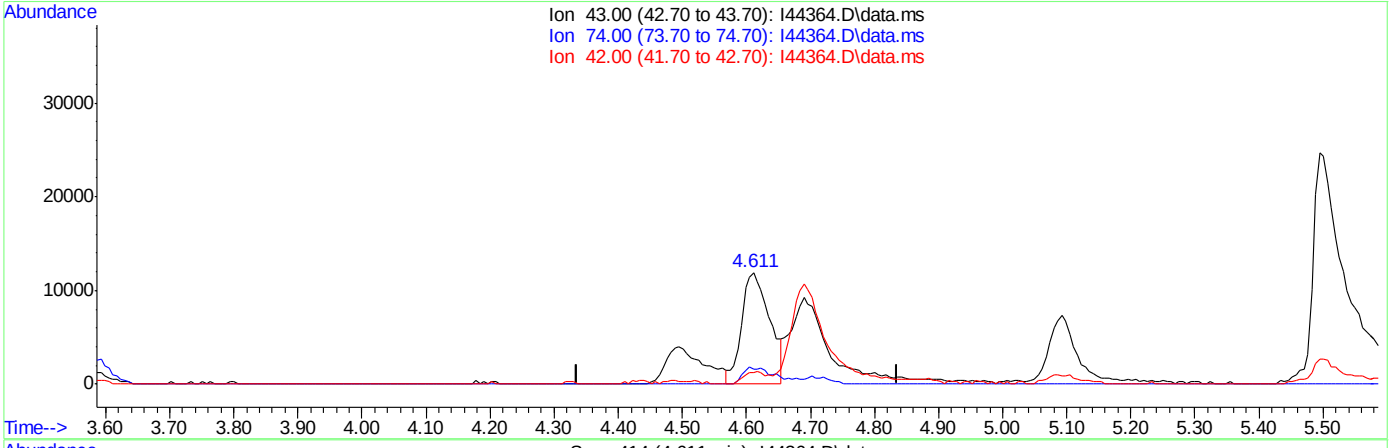
Ion	Exp%	Act%
43.00	100	0.00
74.00	19.80	0.00
42.00	10.20	0.00
0.00	0.00	0.00

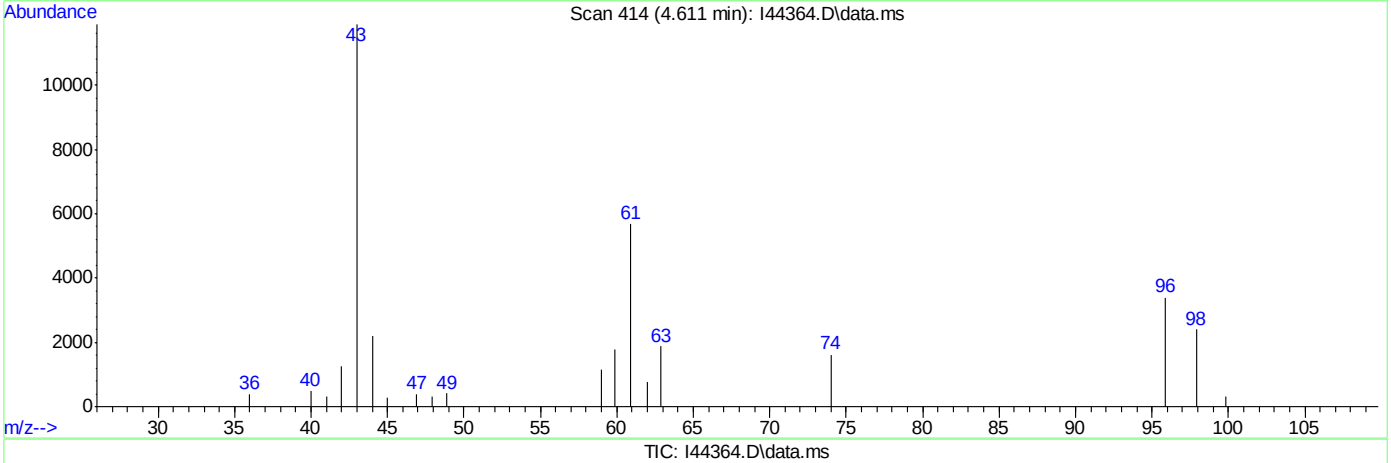
SGS ACCUTEST FA39742

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\DATA\122216\
Data File : I44364.D
Acq On : 22 Dec 2016 10:11 am
Operator : WILFREDO
Sample : IC1214-1 Inst : MSVOA16
Misc : MS35881,VI1214,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 22 12:42:11 2016
Quant Method : C:\msdchem\2\METHODS\I-DEC22.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon Nov 28 10:18:42 2016
Response via : Initial Calibration





TIC: I44364.D\data.ms

(18) Methyl acetate

4.611min (+0.024) 5.13ug/L m

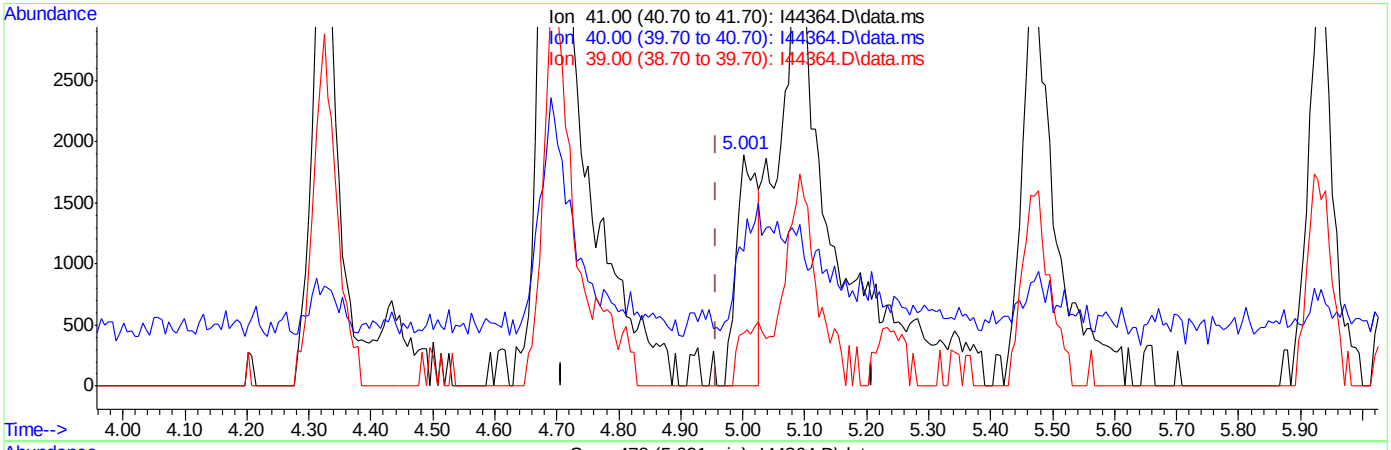
response 36452

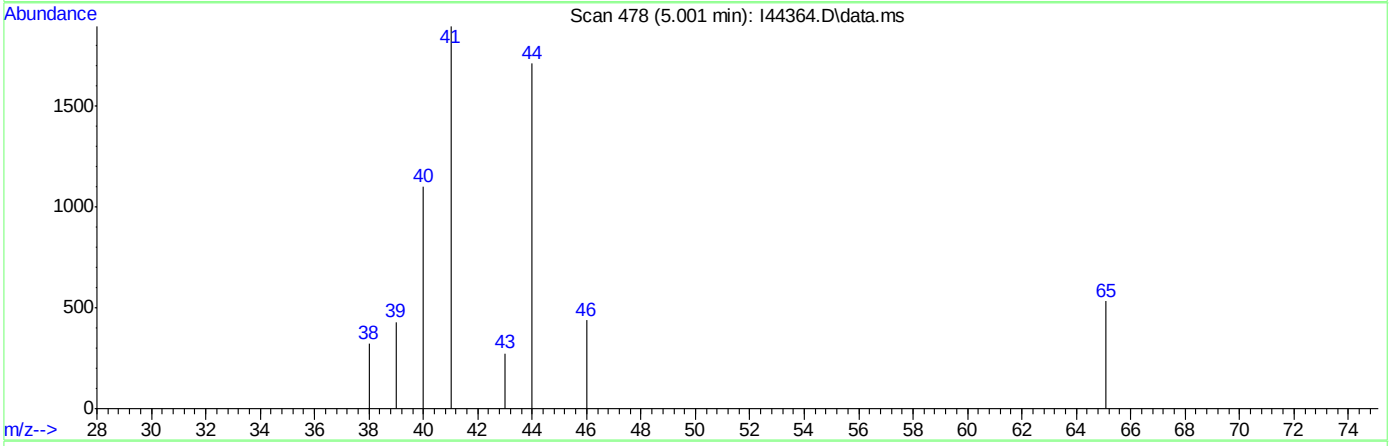
Ion	Exp%	Act%
43.00	100	100
74.00	19.80	13.65
42.00	10.20	10.45
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\DATA\122216\
Data File : I44364.D
Acq On : 22 Dec 2016 10:11 am
Operator : WILFREDO
Sample : IC1214-1 Inst : MSVOA16
Misc : MS35881,VI1214,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 22 12:43:46 2016
Quant Method : C:\msdchem\2\METHODS\I-DEC22.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon Nov 28 10:18:42 2016
Response via : Initial Calibration





TIC: I44364.D\data.ms

(22) Acetonitrile

5.001min (+0.043) 4.73ug/L

response 4431

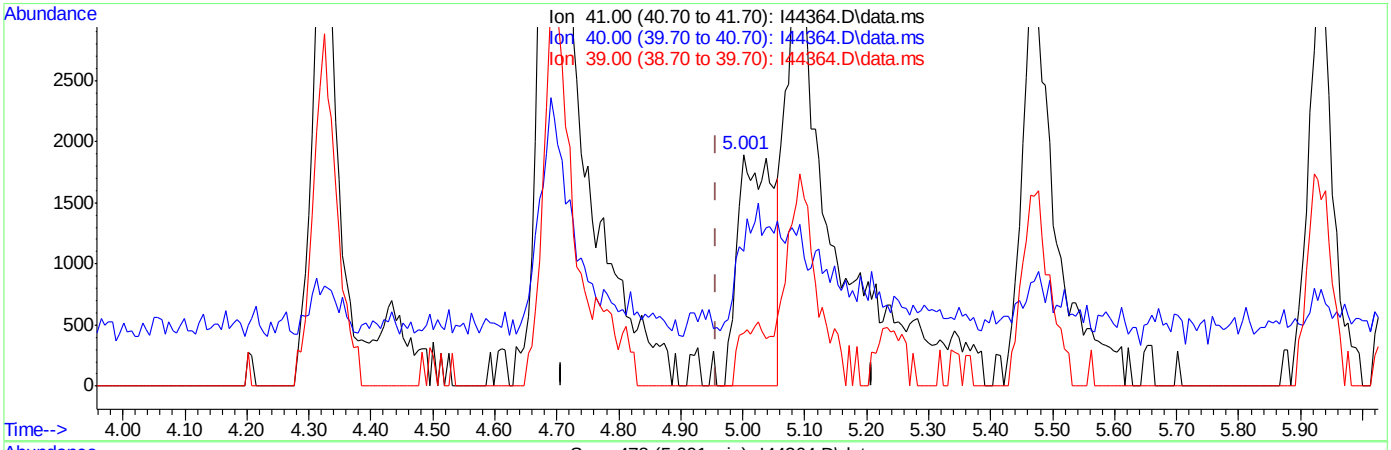
Ion	Exp%	Act%
41.00	100	100
40.00	51.80	30.25#
39.00	19.00	22.70
0.00	0.00	0.00

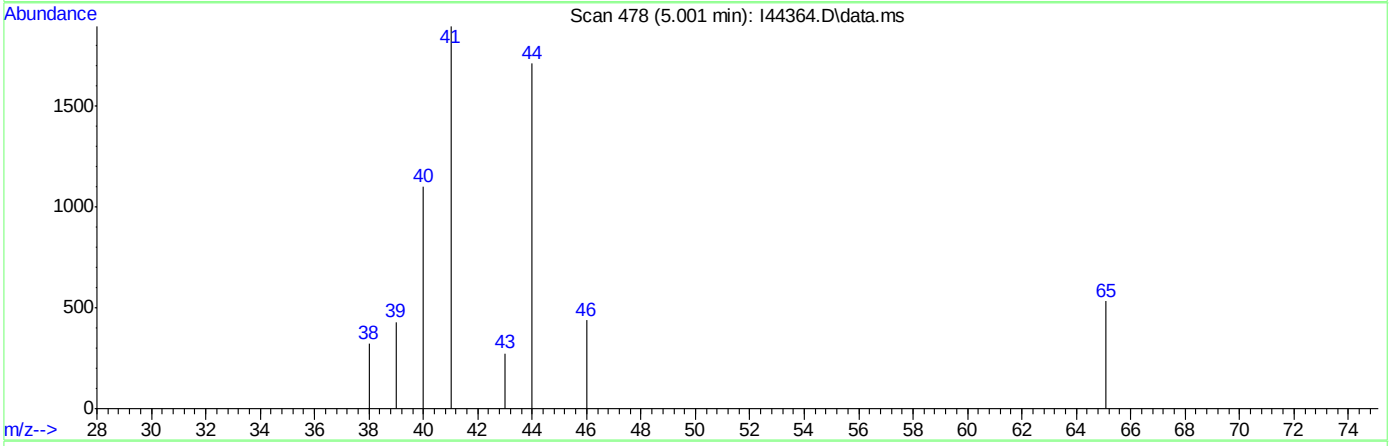
SGS ACCUTEST FA39742

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\DATA\122216\
Data File : I44364.D
Acq On : 22 Dec 2016 10:11 am
Operator : WILFREDO
Sample : IC1214-1 Inst : MSVOA16
Misc : MS35881,VI1214,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 22 12:43:46 2016
Quant Method : C:\msdchem\2\METHODS\I-DEC22.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon Nov 28 10:18:42 2016
Response via : Initial Calibration





TIC: I44364.D\data.ms

(22) Acetonitrile

5.001min (+0.043) 8.05ug/L m

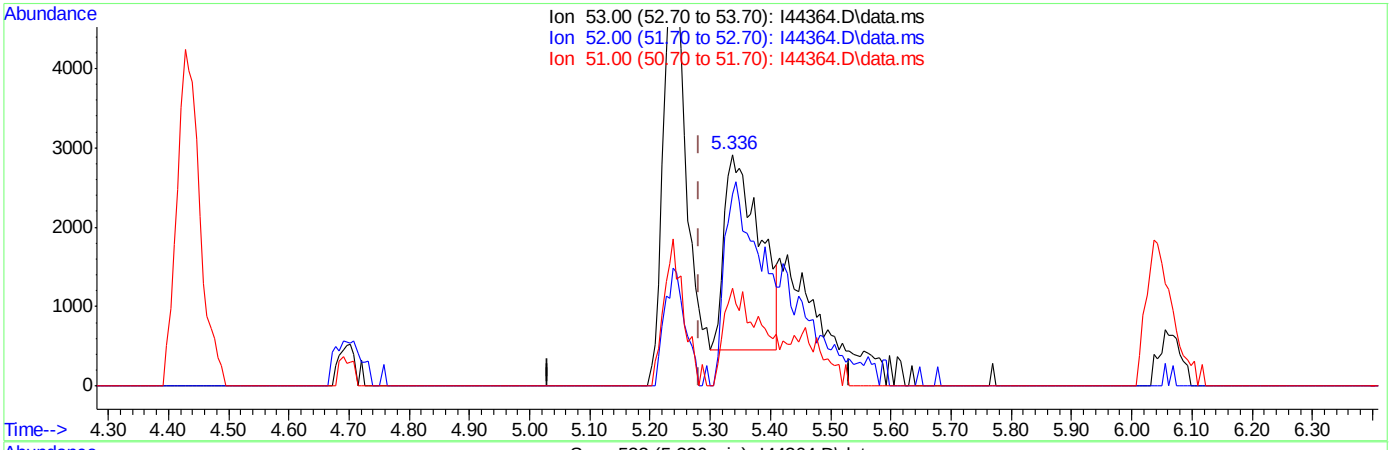
response 7551

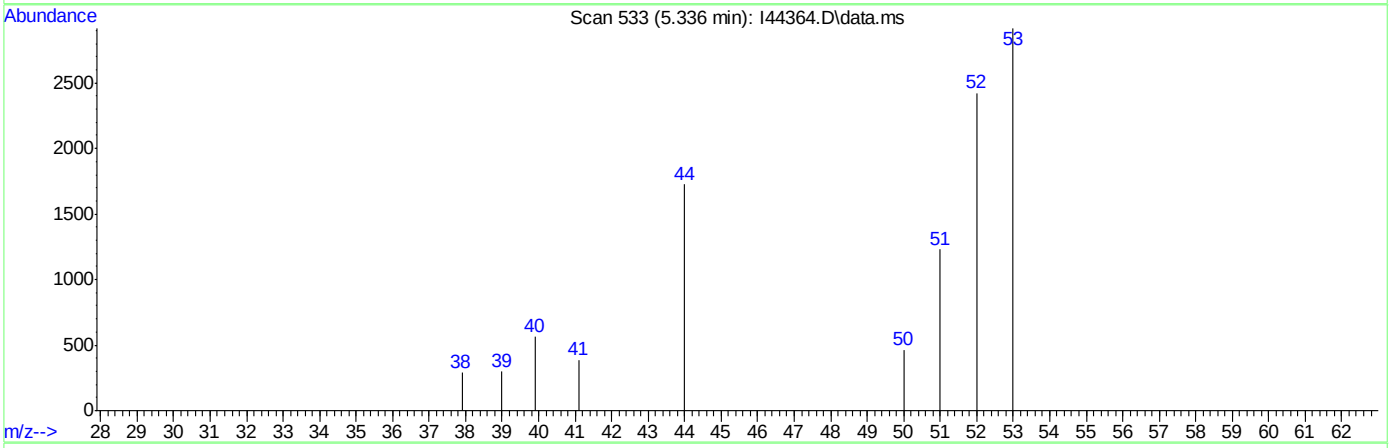
Ion	Exp%	Act%
41.00	100	100
40.00	51.80	58.03
39.00	19.00	22.70
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\DATA\122216\
Data File : I44364.D
Acq On : 22 Dec 2016 10:11 am
Operator : WILFREDO
Sample : IC1214-1 Inst : MSVOA16
Misc : MS35881,VI1214,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 22 12:43:46 2016
Quant Method : C:\msdchem\2\METHODS\I-DEC22.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon Nov 28 10:18:42 2016
Response via : Initial Calibration





TIC: I44364.D\data.ms

(26) Acrylonitrile

5.336min (+0.055) 2.31ug/L

response 9965

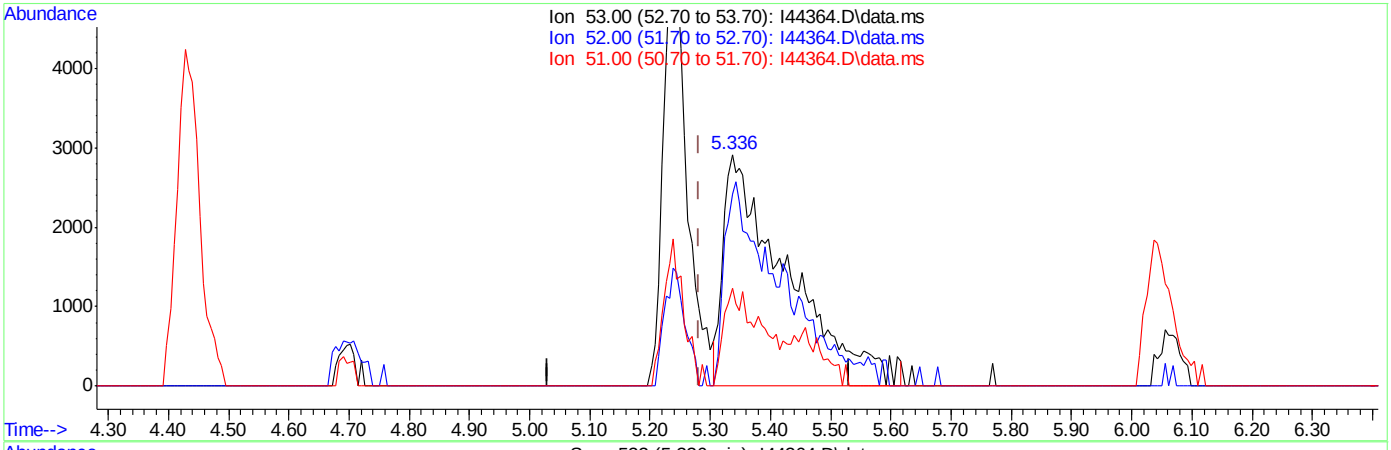
Ion	Exp%	Act%
53.00	100	100
52.00	81.40	98.50
51.00	34.30	49.92
0.00	0.00	0.00

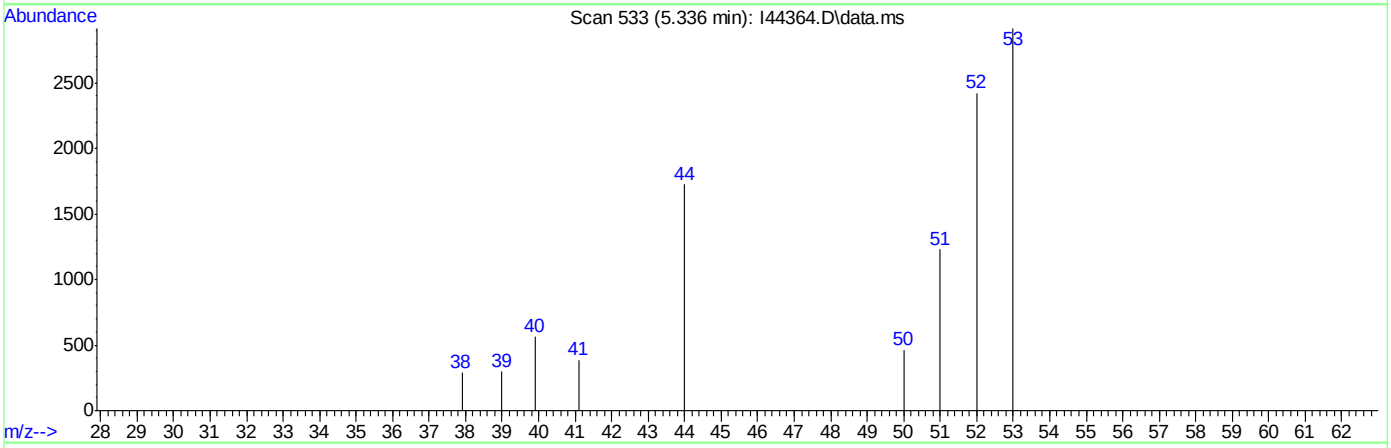
SGS ACCUTEST FA39742

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\DATA\122216\
Data File : I44364.D
Acq On : 22 Dec 2016 10:11 am
Operator : WILFREDO
Sample : IC1214-1 Inst : MSVOA16
Misc : MS35881,VI1214,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 22 12:43:46 2016
Quant Method : C:\msdchem\2\METHODS\I-DEC22.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon Nov 28 10:18:42 2016
Response via : Initial Calibration





TIC: I44364.D\data.ms

(26) Acrylonitrile

5.336min (+0.055) 4.99ug/L m

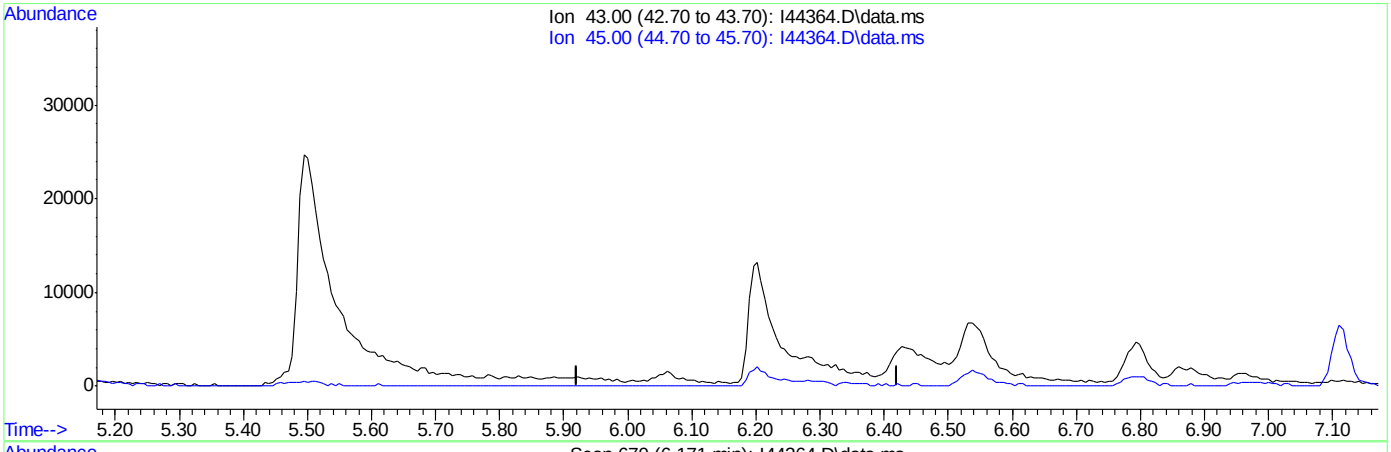
response 21518

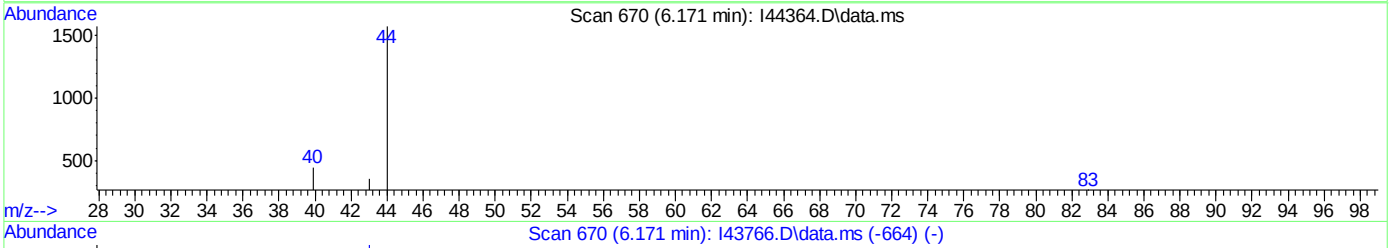
Ion	Exp%	Act%
53.00	100	100
52.00	81.40	83.09
51.00	34.30	42.11
0.00	0.00	0.00

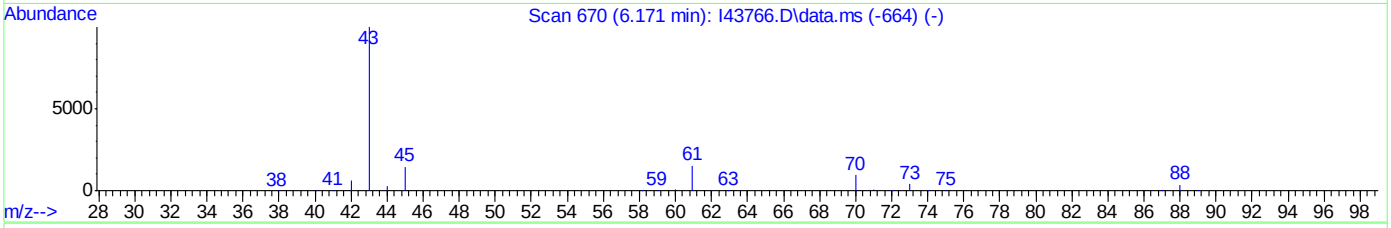
Quantitation Report (Qedit)

Data Path : C:\msdchem\2\DATA\122216\
Data File : I44364.D
Acq On : 22 Dec 2016 10:11 am
Operator : WILFREDO
Sample : IC1214-1 Inst : MSVOA16
Misc : MS35881,VI1214,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 22 12:43:46 2016
Quant Method : C:\msdchem\2\METHODS\I-DEC22.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon Nov 28 10:18:42 2016
Response via : Initial Calibration







TIC: I44364.D\data.ms

(34) Ethyl acetate

6.171min (-6.171) 0.00ug/L

response 0

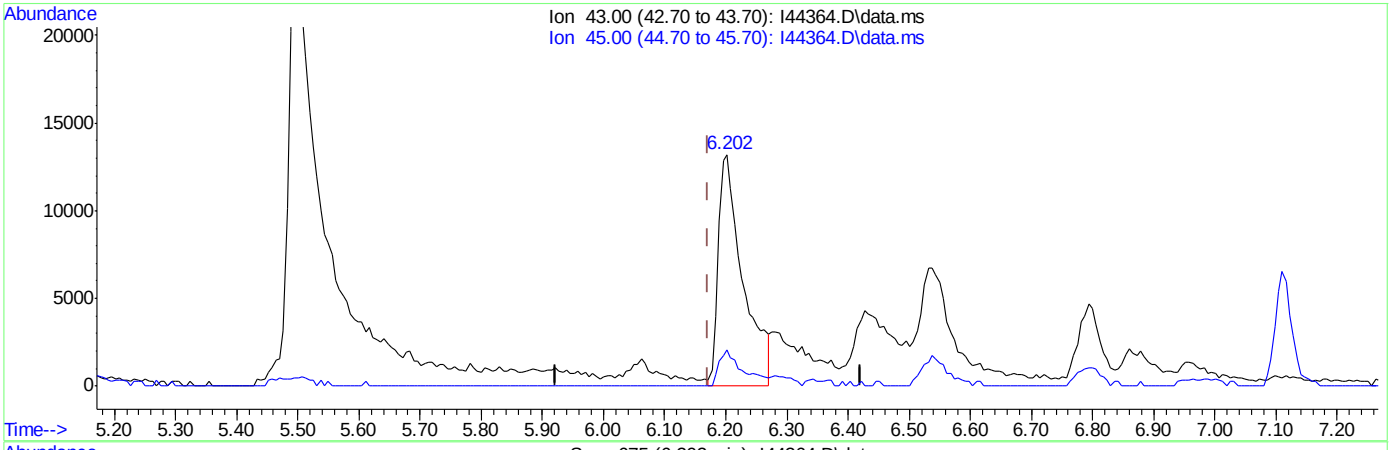
Ion	Exp%	Act%
43.00	100	0.00
45.00	14.70	0.00
0.00	0.00	0.00
0.00	0.00	0.00

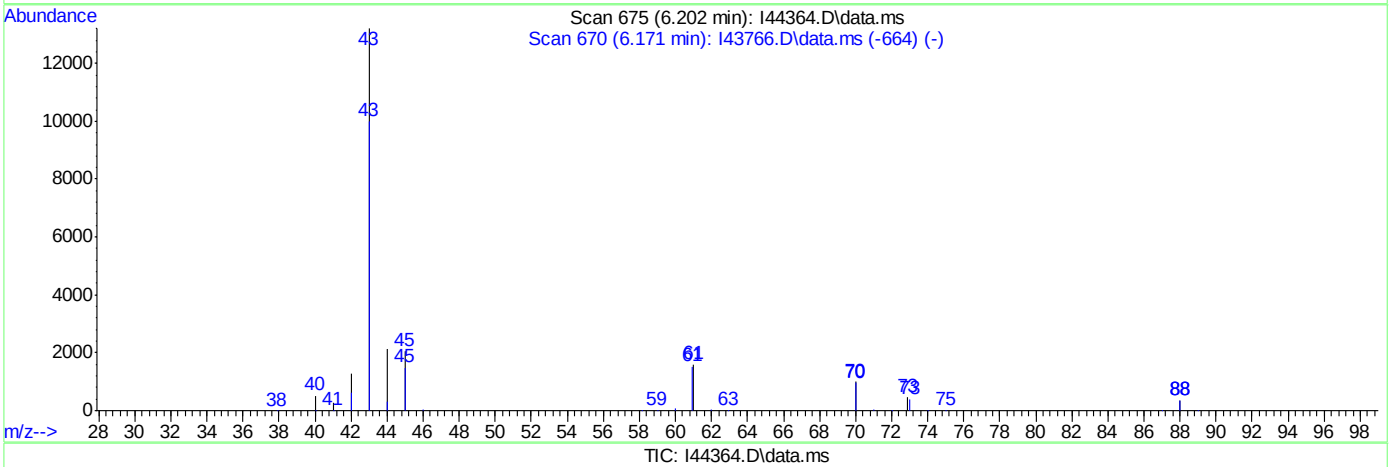
SGS ACCUTEST FA39742

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\DATA\122216\
Data File : I44364.D
Acq On : 22 Dec 2016 10:11 am
Operator : WILFREDO
Sample : IC1214-1 Inst : MSVOA16
Misc : MS35881,VI1214,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 22 12:43:46 2016
Quant Method : C:\msdchem\2\METHODS\I-DEC22.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon Nov 28 10:18:42 2016
Response via : Initial Calibration





(34) Ethyl acetate

6.202min (+0.031) 3.78ug/L m

response 36741

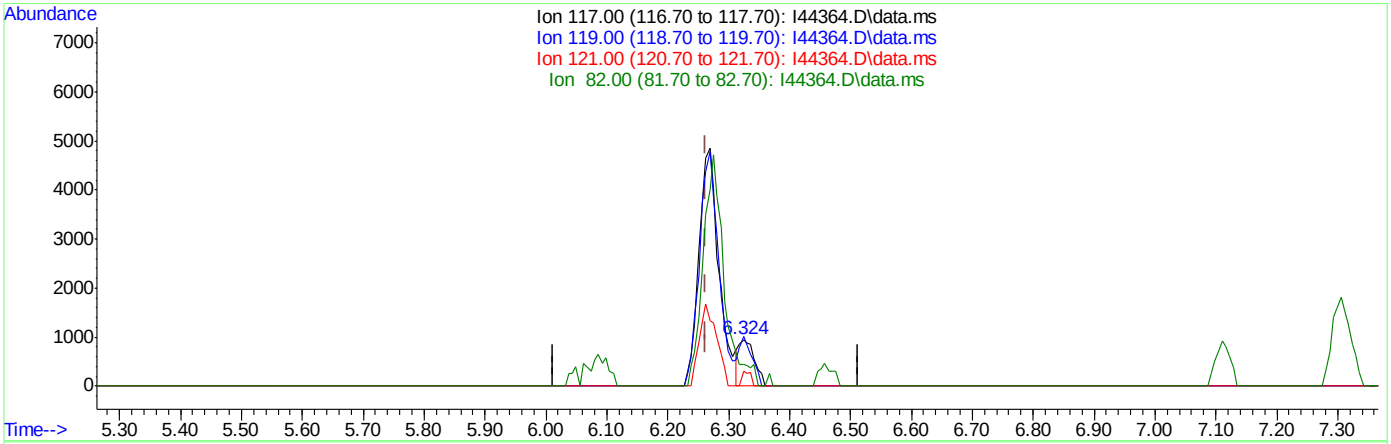
Ion	Exp%	Act%
43.00	100	100
45.00	14.70	15.63
0.00	0.00	0.00
0.00	0.00	0.00

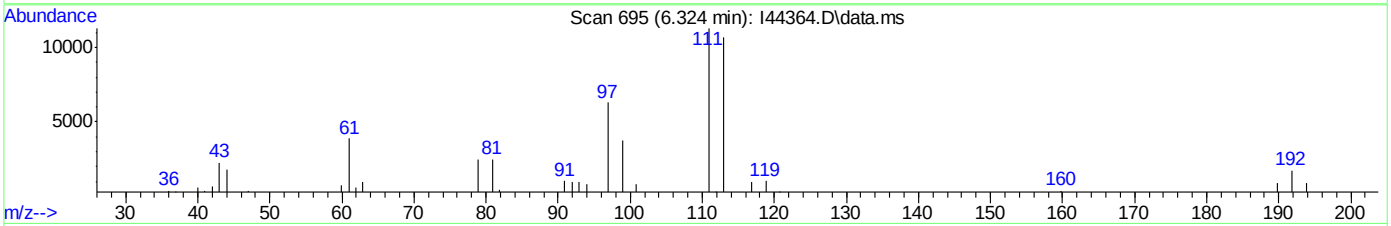
SGS ACCUTEST FA39742

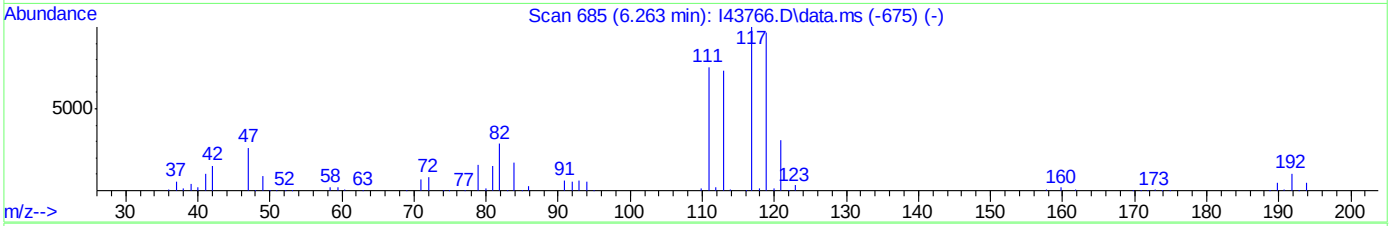
Quantitation Report (Qedit)

Data Path : C:\msdchem\2\DATA\122216\
Data File : I44364.D
Acq On : 22 Dec 2016 10:11 am
Operator : WILFREDO
Sample : IC1214-1 Inst : MSVOA16
Misc : MS35881,VI1214,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 22 12:43:46 2016
Quant Method : C:\msdchem\2\METHODS\I-DEC22.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon Nov 28 10:18:42 2016
Response via : Initial Calibration







TIC: I44364.D\data.ms

(37) Carbon Tetrachloride ( )

6.324min (+0.061) 0.15ug/L

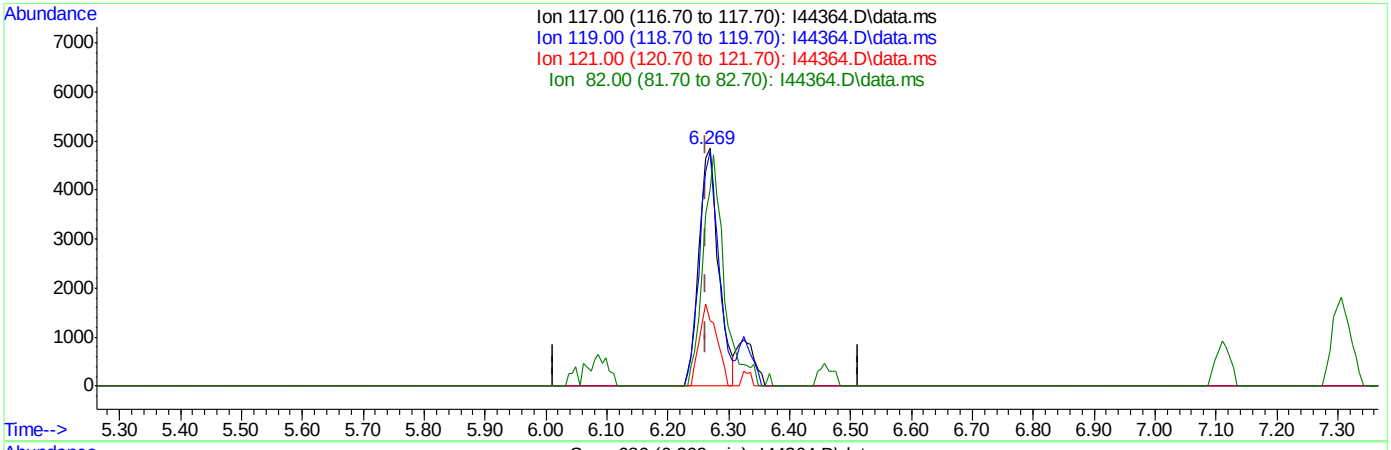
response 1709

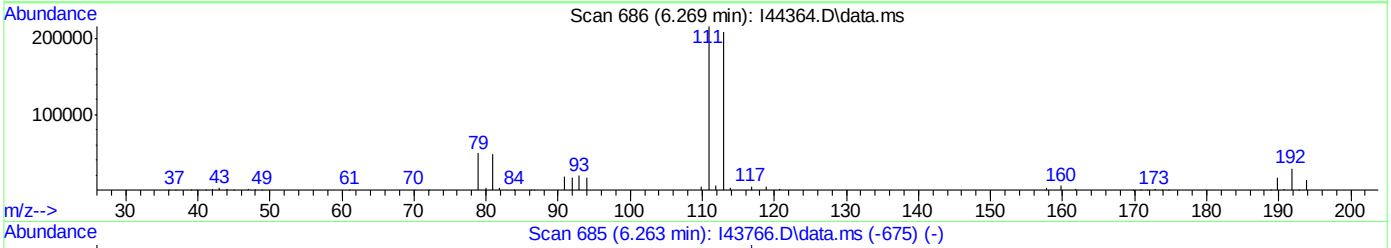
Ion	Exp%	Act%
117.00	100	100
119.00	96.60	107.16
121.00	31.00	32.53
82.00	28.50	18.74

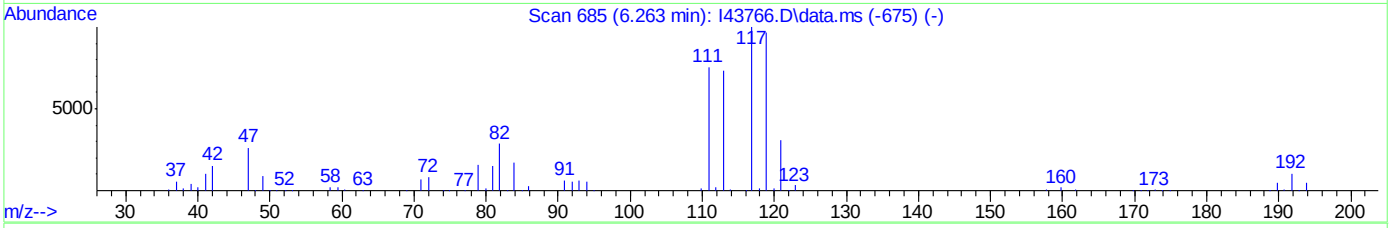
Quantitation Report (Qedit)

Data Path : C:\msdchem\2\DATA\122216\
Data File : I44364.D
Acq On : 22 Dec 2016 10:11 am
Operator : WILFREDO
Sample : IC1214-1 Inst : MSVOA16
Misc : MS35881,VI1214,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 22 12:43:46 2016
Quant Method : C:\msdchem\2\METHODS\I-DEC22.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon Nov 28 10:18:42 2016
Response via : Initial Calibration







TIC: I44364.D\data.ms

(37) Carbon Tetrachloride ( )

6.269min (+0.006) 0.92ug/L m

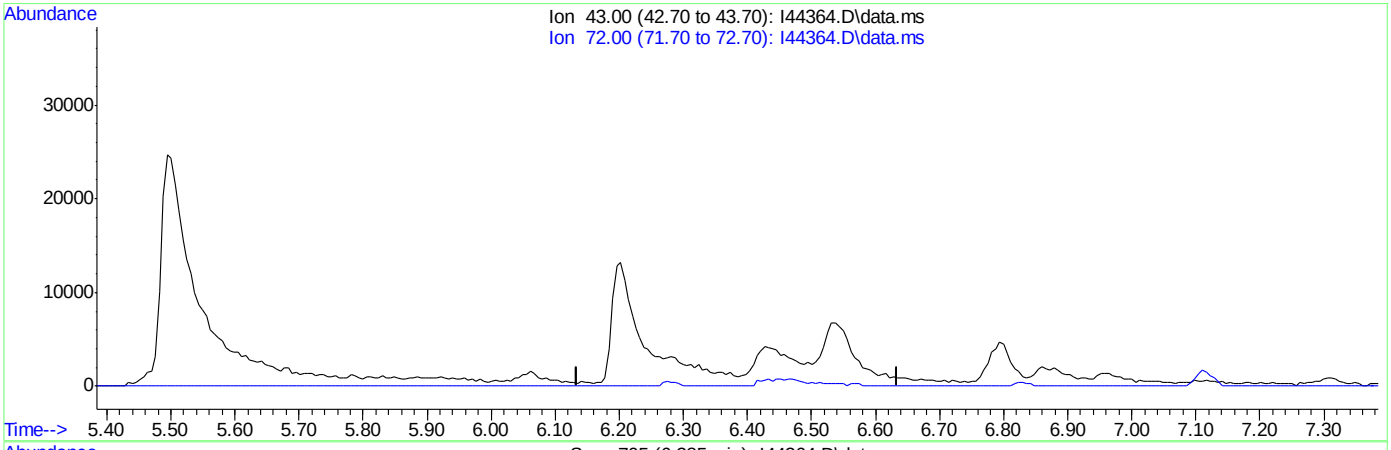
response 10771

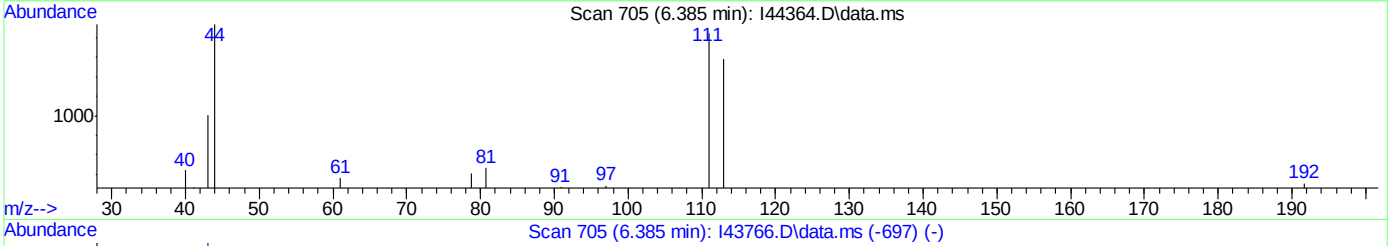
Ion	Exp%	Act%
117.00	100	100
119.00	96.60	98.95
121.00	31.00	27.37
82.00	28.50	82.83#

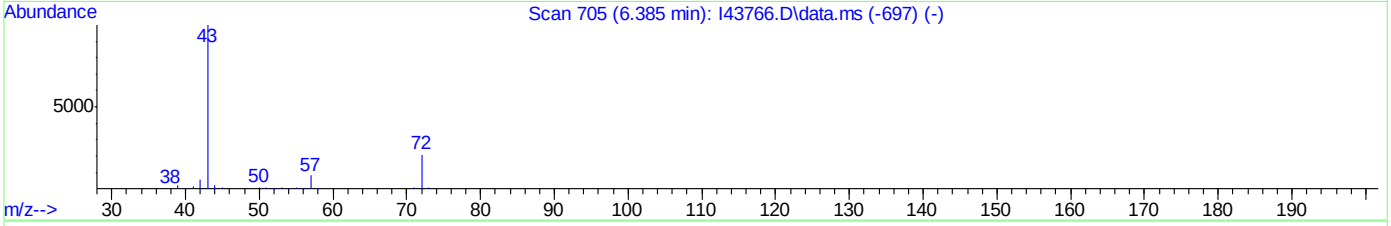
Quantitation Report (Qedit)

Data Path : C:\msdchem\2\DATA\122216\
Data File : I44364.D
Acq On : 22 Dec 2016 10:11 am
Operator : WILFREDO
Sample : IC1214-1 Inst : MSVOA16
Misc : MS35881,VI1214,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 22 12:43:46 2016
Quant Method : C:\msdchem\2\METHODS\I-DEC22.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon Nov 28 10:18:42 2016
Response via : Initial Calibration







TIC: I44364.D\data.ms

(39) 2-Butanone

6.385min (-6.385) 0.00ug/L

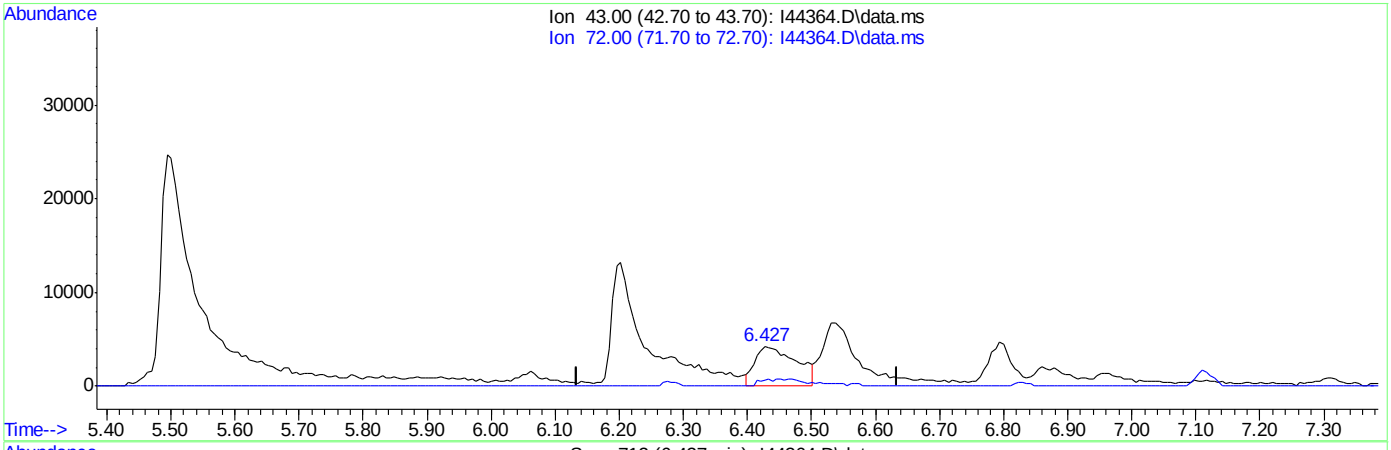
response 0

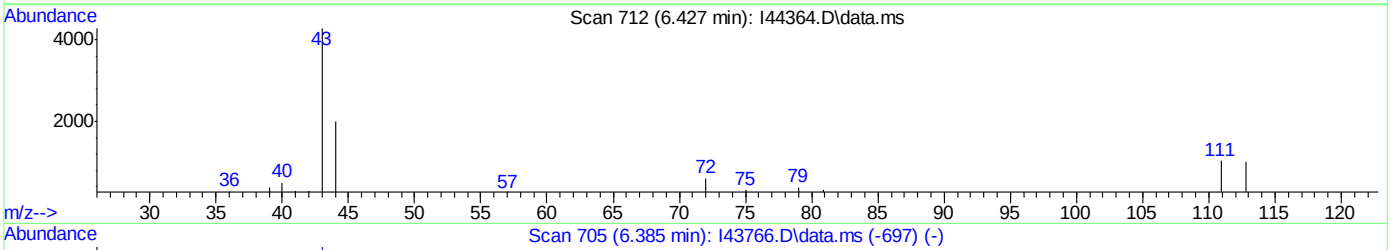
Ion	Exp%	Act%
43.00	100	0.00
72.00	20.90	0.00
0.00	0.00	0.00
0.00	0.00	0.00

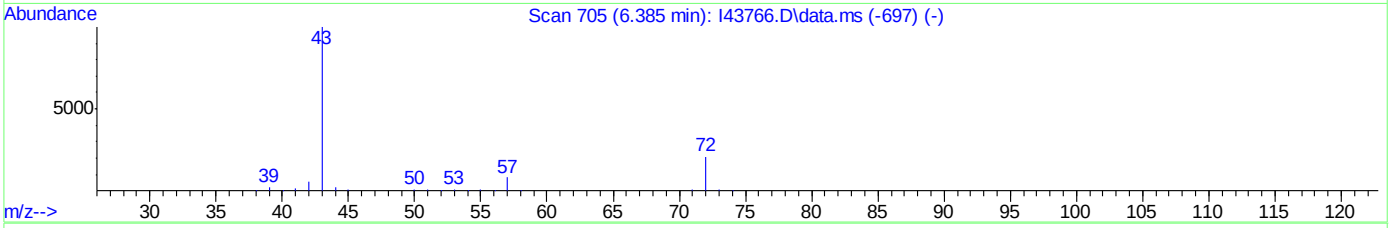
Quantitation Report (Qedit)

Data Path : C:\msdchem\2\DATA\122216\
Data File : I44364.D
Acq On : 22 Dec 2016 10:11 am
Operator : WILFREDO
Sample : IC1214-1 Inst : MSVOA16
Misc : MS35881,VI1214,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 22 12:43:46 2016
Quant Method : C:\msdchem\2\METHODS\I-DEC22.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon Nov 28 10:18:42 2016
Response via : Initial Calibration







TIC: I44364.D\data.ms

(39) 2-Butanone

6.427min (+0.043) 4.63ug/L m

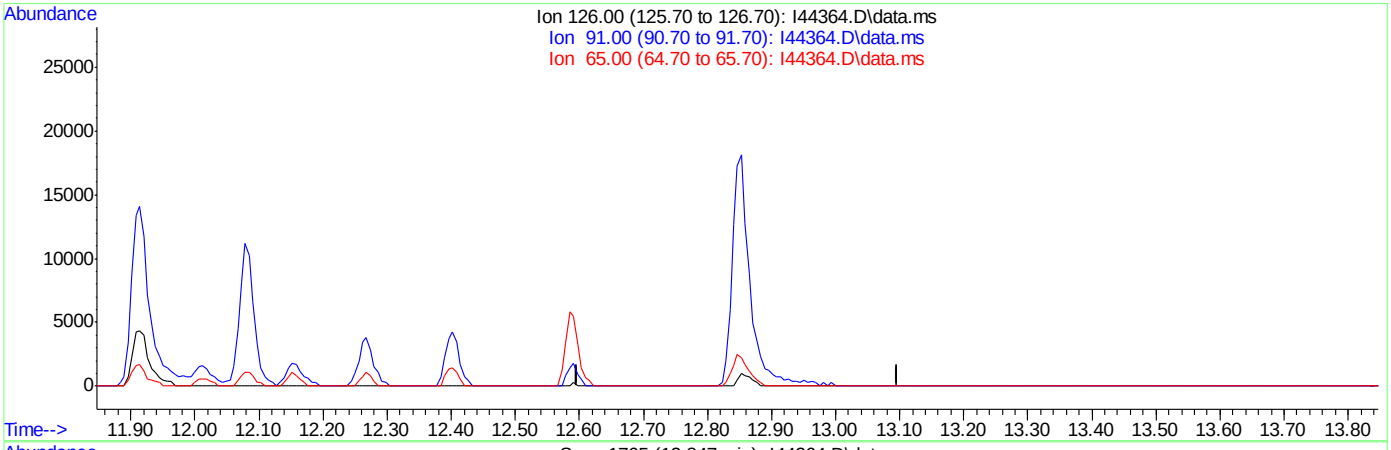
response 19041

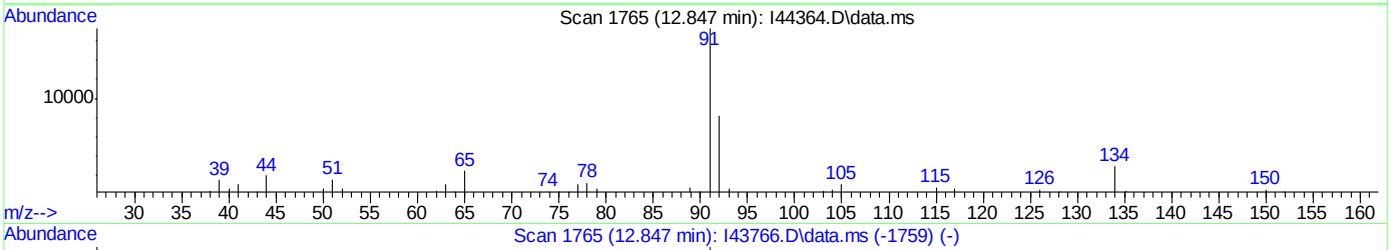
Ion	Exp%	Act%
43.00	100	100
72.00	20.90	14.08
0.00	0.00	0.00
0.00	0.00	0.00

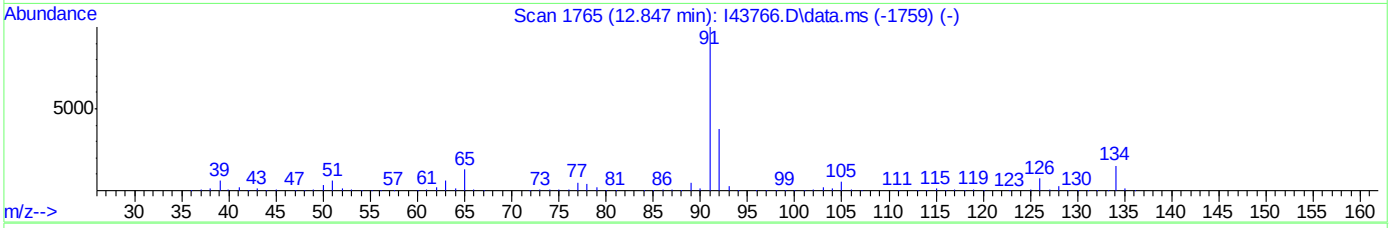
Quantitation Report (Qedit)

Data Path : C:\msdchem\2\DATA\122216\
Data File : I44364.D
Acq On : 22 Dec 2016 10:11 am
Operator : WILFREDO
Sample : IC1214-1 Inst : MSVOA16
Misc : MS35881,VI1214,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 22 12:43:46 2016
Quant Method : C:\msdchem\2\METHODS\I-DEC22.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon Nov 28 10:18:42 2016
Response via : Initial Calibration







TIC: I44364.D\data.ms

(99) Benzyl Chloride

12.847min (-12.847) 0.00ug/L

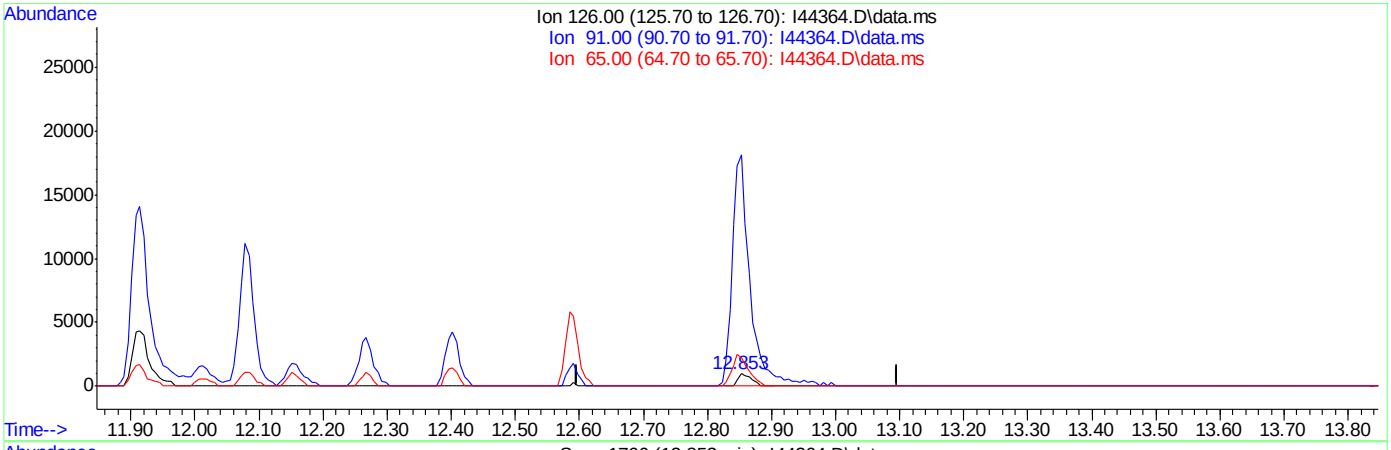
response 0

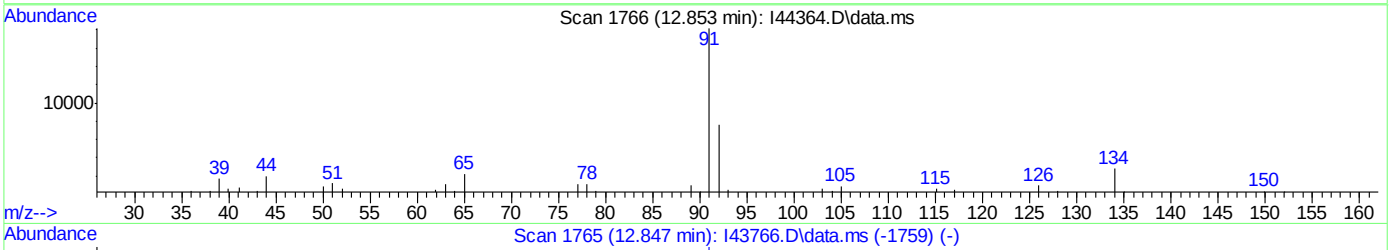
Ion	Exp%	Act%
126.00	100	0.00
91.00	1331.40	0.00#
65.00	170.60	0.00#
0.00	0.00	0.00

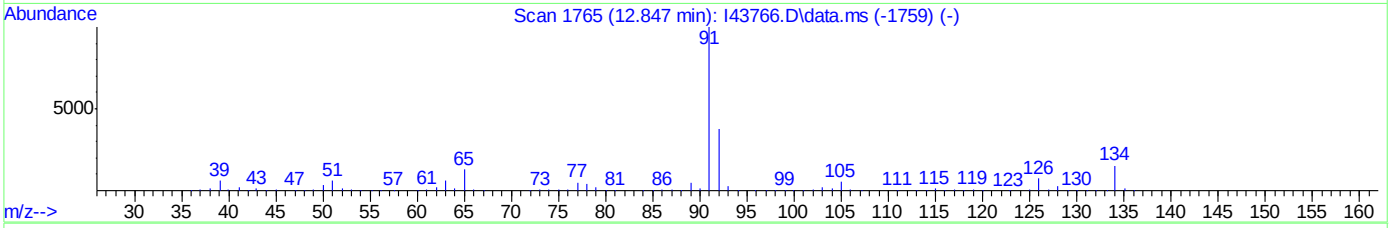
Quantitation Report (Qedit)

Data Path : C:\msdchem\2\DATA\122216\
Data File : I44364.D
Acq On : 22 Dec 2016 10:11 am
Operator : WILFREDO
Sample : IC1214-1 Inst : MSVOA16
Misc : MS35881,VI1214,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 22 12:43:46 2016
Quant Method : C:\msdchem\2\METHODS\I-DEC22.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon Nov 28 10:18:42 2016
Response via : Initial Calibration







TIC: I44364.D\data.ms

(99) Benzyl Chloride

12.853min (+0.006) 0.49ug/L m

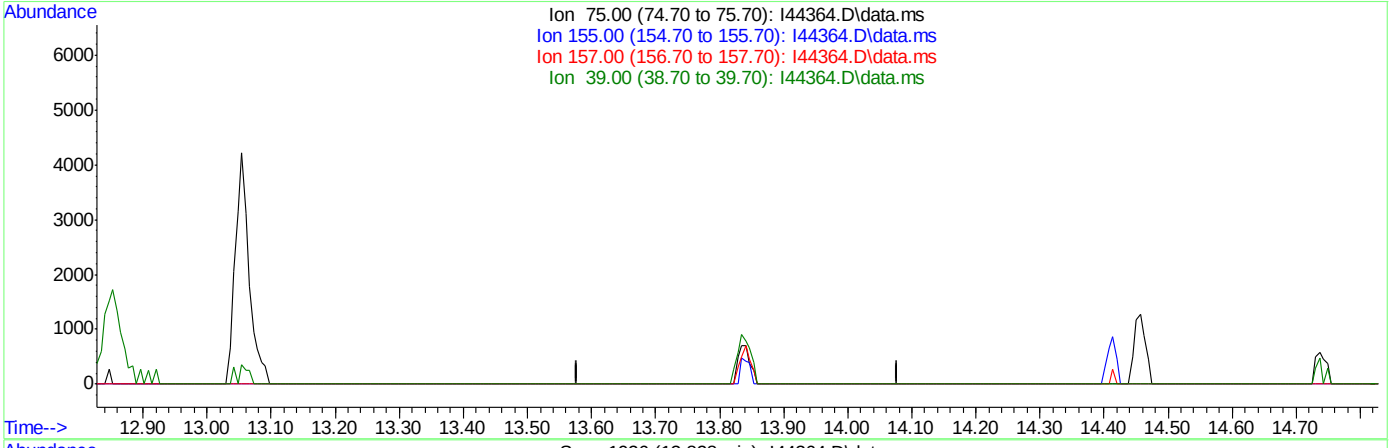
response 1404

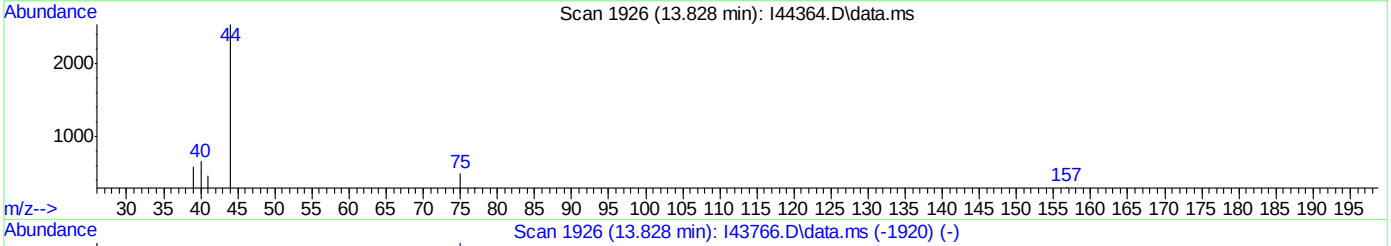
Ion	Exp%	Act%
126.00	100	100
91.00	1331.40	1887.73#
65.00	170.60	234.10#
0.00	0.00	0.00

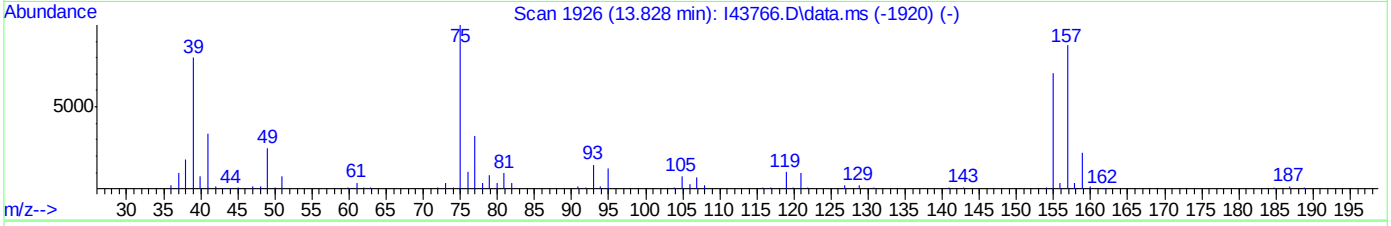
Quantitation Report (Qedit)

Data Path : C:\msdchem\2\DATA\122216\
Data File : I44364.D
Acq On : 22 Dec 2016 10:11 am
Operator : WILFREDO
Sample : IC1214-1 Inst : MSVOA16
Misc : MS35881,VI1214,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 22 12:43:46 2016
Quant Method : C:\msdchem\2\METHODS\I-DEC22.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon Nov 28 10:18:42 2016
Response via : Initial Calibration







TIC: I44364.D\data.ms

(101) 1,2-Dibromo-3-Chloropropane

13.828min (-13.828) 0.00ug/L

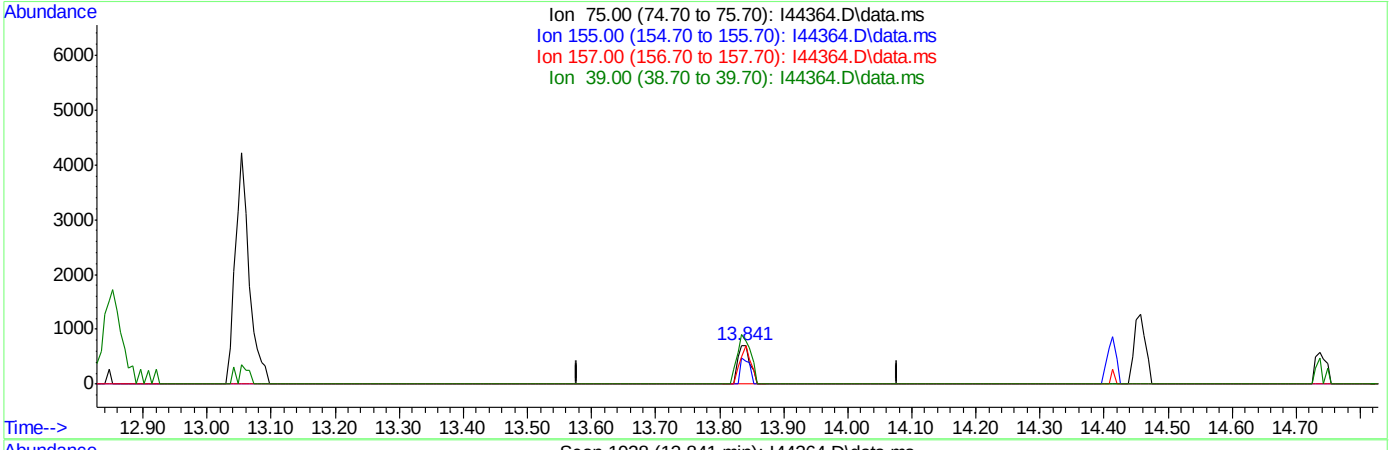
response 0

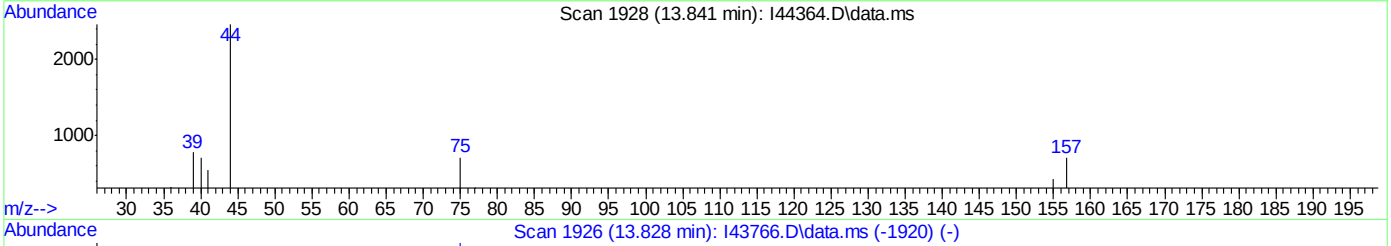
Ion	Exp%	Act%
75.00	100	0.00
155.00	70.90	0.00#
157.00	87.90	0.00#
39.00	80.10	0.00#

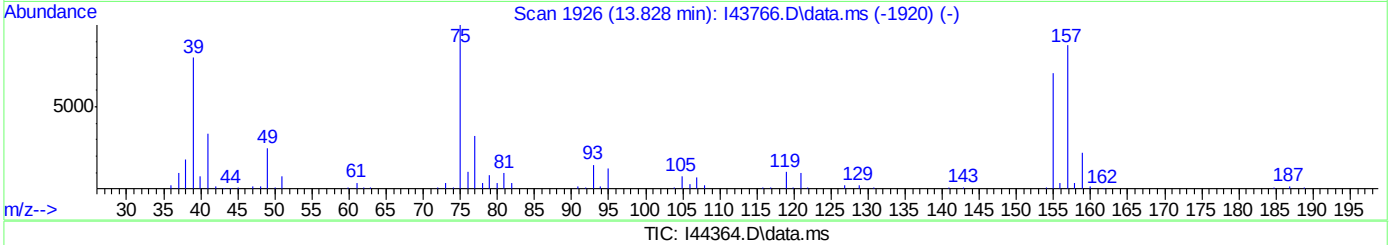
Quantitation Report (Qedit)

Data Path : C:\msdchem\2\DATA\122216\
Data File : I44364.D
Acq On : 22 Dec 2016 10:11 am
Operator : WILFREDO
Sample : IC1214-1 Inst : MSVOA16
Misc : MS35881,VI1214,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 22 12:43:46 2016
Quant Method : C:\msdchem\2\METHODS\I-DEC22.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon Nov 28 10:18:42 2016
Response via : Initial Calibration







TIC: I44364.D\data.ms

(101) 1,2-Dibromo-3-Chloropropane

13.841min (+0.013) 0.64ug/L m

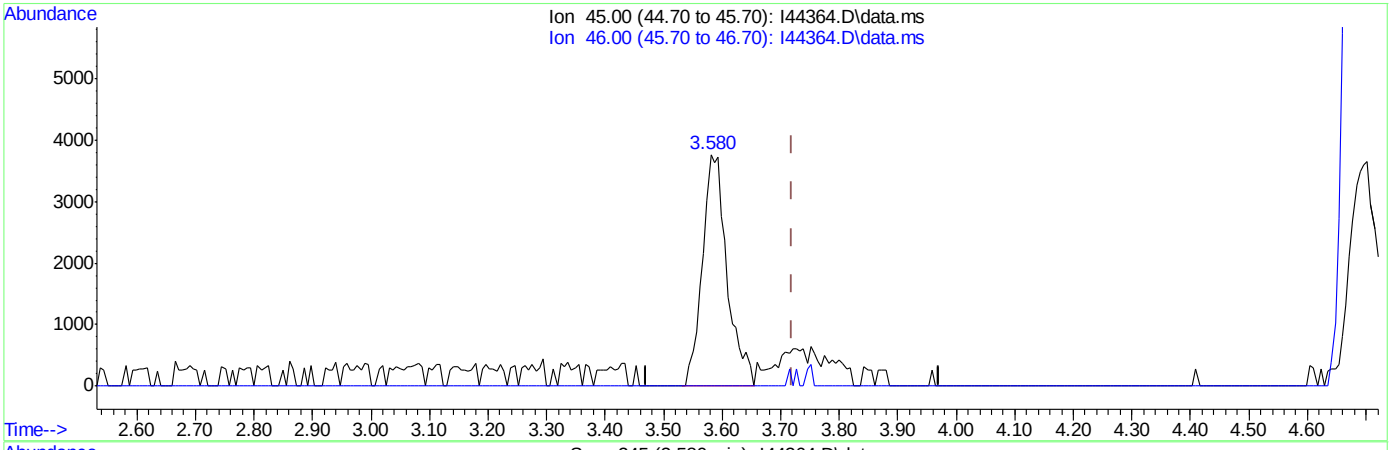
response 929

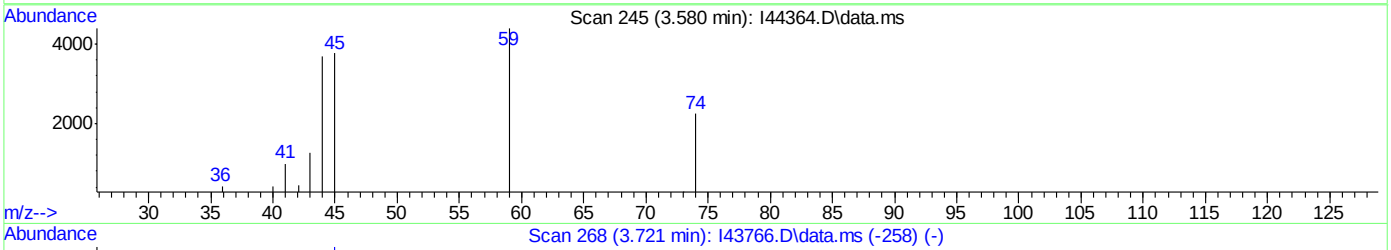
Ion	Exp%	Act%
75.00	100	100
155.00	70.90	59.32
157.00	87.90	99.29
39.00	80.10	109.89

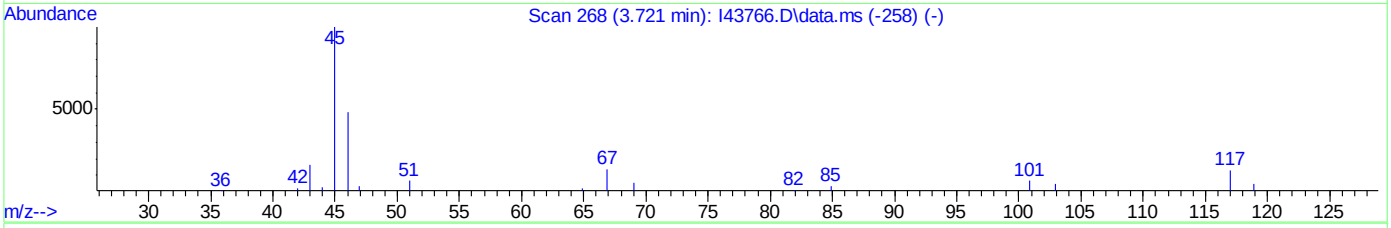
Quantitation Report (Qedit)

Data Path : C:\msdchem\2\DATA\122216\
Data File : I44364.D
Acq On : 22 Dec 2016 10:11 am
Operator : WILFREDO
Sample : IC1214-1 Inst : MSVOA16
Misc : MS35881,VI1214,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 22 12:43:46 2016
Quant Method : C:\msdchem\2\METHODS\I-DEC22.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon Nov 28 10:18:42 2016
Response via : Initial Calibration







TIC: I44364.D\data.ms

(107) Ethanol

3.580min (-0.141) 99.45ug/L

response 11047

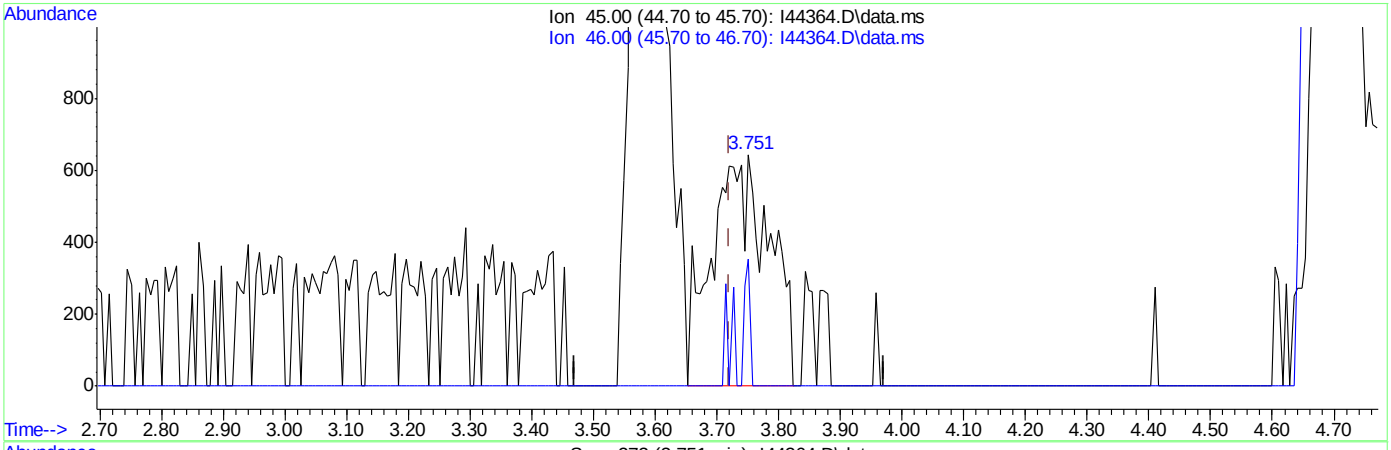
Ion	Exp%	Act%
45.00	100	100
46.00	39.10	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

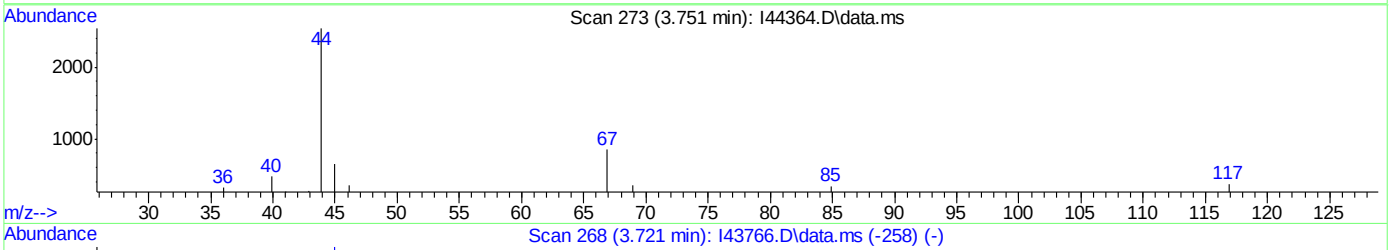
SGS ACCUTEST FA39742

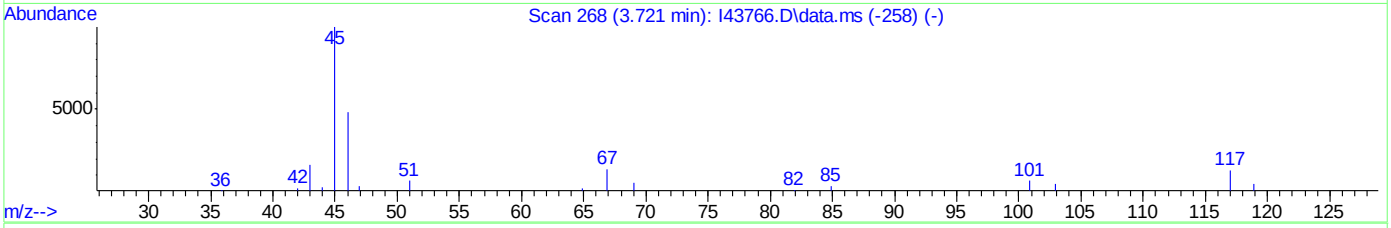
Quantitation Report (Qedit)

Data Path : C:\msdchem\2\DATA\122216\
Data File : I44364.D
Acq On : 22 Dec 2016 10:11 am
Operator : WILFREDO
Sample : IC1214-1 Inst : MSVOA16
Misc : MS35881,VI1214,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 22 12:43:46 2016
Quant Method : C:\msdchem\2\METHODS\I-DEC22.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon Nov 28 10:18:42 2016
Response via : Initial Calibration







TIC: I44364.D\data.ms

(107) Ethanol

3.751min (+0.030) 37.69ug/L m

response 4187

Ion	Exp%	Act%
45.00	100	100
46.00	39.10	54.66
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integrations APPROVED (compounds with "m" flag)
Juan Garcia
12/23/16 14:50

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\122216\
Data File : I44365.D
Acq On : 22 Dec 2016 10:35 am
Operator : WILFREDO
Sample : IC1214-2 Inst : MSVOA16
Misc : MS35881,VI1214,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 22 12:58:36 2016
Quant Method : C:\msdchem\2\METHODS\I-DEC22.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon Nov 28 10:18:42 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.116	96	2061904	50.00	ug/L	0.00
56) Chlorobenzene-d5	10.226	117	1407766	50.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	12.591	152	675374	50.00	ug/L	0.00
106) Tert Butyl Alcohol-d10	4.690	65	181856	250.00	ug/L	0.00
System Monitoring Compounds						
36) Dibromofluoromethane	6.275	113	519855	50.59	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 101.18%			
46) 1,2-Dichloroethane-d4	6.830	65	761044	55.83	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 111.66%			
57) Toluene-d8	8.677	98	1896788	48.73	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 97.46%			
79) 4-Bromofluorobenzene	11.439	174	483673	48.26	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 96.52%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.270	85	65999	4.42	ug/L	99
3) Chloromethane	2.477	50	106030	5.93	ug/L	99
4) 1,3-Butadiene	2.611	39	75458	5.95	ug/L	97
5) Vinyl Chloride	2.593	62	78882	5.68	ug/L	96
6) Bromomethane	2.983	94	31834	6.96	ug/L	95
7) Chloroethane	3.135	64	37441	7.01	ug/L	97
8) Trichlorofluoromethane	3.282	101	76944	5.79	ug/L	92
9) Ethyl Ether	3.587	59	57135	5.44	ug/L	92
10) 1,2-Dichlorotrifluoroe...	3.782	67	67771	5.53	ug/L	97
11) 1,1-Dichloroethene	3.824	61	94628	5.42	ug/L	95
12) Freon 113	3.891	101	52194	5.31	ug/L	98
13) Carbon Disulfide	3.885	76	153077	4.97	ug/L	93
14) Iodomethane	3.989	142	71270	4.72	ug/L	97
15) Allyl chloride	4.324	41	67827	5.19	ug/L	93
16) Methylene Chloride	4.434	49	110223	6.44	ug/L	95
17) Acetone	4.477	43	73122	24.91	ug/L	94
18) Methyl acetate	4.599	43	188129	26.97	ug/L	96
19) trans-1,2-Dichloroethene	4.611	61	86798	5.51	ug/L	96
20) Hexane	4.690	56	72730	5.83	ug/L #	91
21) Methyl Tert Butyl Ether	4.708	73	130951	4.84	ug/L	90
22) Acetonitrile	4.983	41	44066	47.89	ug/L	95
23) Di-isopropyl ether	5.086	45	206307	5.21	ug/L	94
24) Chloroprene	5.233	53	92009	4.76	ug/L	96
25) 1,1-Dichloroethane	5.251	63	104869	5.16	ug/L	98
26) Acrylonitrile	5.300	53	102587	24.22	ug/L	97
27) ETBE	5.470	59	182014	4.98	ug/L	97
28) Vinyl acetate	5.476	43	635680	26.92	ug/L	98
29) cis-1,2-Dichloroethene	5.818	96	52443	4.61	ug/L	93
30) 2,2-Dichloropropane	5.928	77	52244	5.26	ug/L	98
31) Bromochloromethane	6.031	128	23202	4.62	ug/L #	83
32) Cyclohexane	6.062	56	112452	5.19	ug/L	94
33) Chloroform	6.086	83	100447	5.22	ug/L	95
34) Ethyl acetate	6.184	43	258078	27.05	ug/L	99

SGS ACCUTEST FA39742

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\122216\
Data File : I44365.D
Acq On : 22 Dec 2016 10:35 am
Operator : WILFREDO
Sample : IC1214-2 Inst : MSVOA16
Misc : MS35881,VI1214,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 22 12:58:36 2016
Quant Method : C:\msdchem\2\METHODS\I-DEC22.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon Nov 28 10:18:42 2016
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
35)	Tetrahydrofuran	6.275	42	16185	5.83	ug/L		93
37)	Carbon Tetrachloride	6.263	117	57305	4.98	ug/L		91
38)	1,1,1-Trichloroethane	6.330	97	79463	5.16	ug/L		95
39)	2-Butanone	6.403	43	99372	24.63	ug/L		94
40)	1,1-Dichloropropene	6.458	75	68126	4.77	ug/L		95
41)	tert-Butyl formate	6.537	59	347229	46.90	ug/L		90
42)	Propionitrile	6.696	54	82696	53.61	ug/L	#	45
43)	Methacrylonitrile	6.720	41	342346	56.62	ug/L		98
44)	Benzene	6.708	78	191824	4.77	ug/L		89
45)	TAME	6.793	73	122209	4.60	ug/L		86
47)	1,2-Dichloroethane	6.903	62	88473	5.52	ug/L		98
48)	Trichloroethene	7.299	95	56071	5.10	ug/L		96
49)	Methylcyclohexane	7.305	83	89698	4.96	ug/L		93
50)	Dibromomethane	7.726	93	29760	4.77	ug/L		94
51)	1,2-Dichloropropane	7.811	63	56921	4.91	ug/L		94
52)	Bromodichloromethane	7.866	83	54547	4.47	ug/L		98
53)	Methyl methacrylate	7.994	41	28864	3.72	ug/L		87
54)	2-Chloroethyl vinyl ether	8.403	63	130525	20.81	ug/L		93
55)	cis-1,3-Dichloropropene	8.488	75	59548	4.36	ug/L		93
58)	Toluene	8.732	91	189093	4.51	ug/L		100
59)	2-Nitropropane	8.933	41	45062	21.65	ug/L		88
60)	4-Methyl-2-pentanone	9.067	43	248871	26.08	ug/L		95
61)	trans-1,3-Dichloropropene	9.128	75	48939	4.37	ug/L		90
62)	Tetrachloroethene	9.134	166	44885	4.50	ug/L		98
63)	Ethyl methacrylate	9.250	69	43047	3.76	ug/L		87
64)	1,1,2-Trichloroethane	9.287	83	36767	4.82	ug/L		96
65)	Dibromochloromethane	9.482	129	31098	3.98	ug/L		97
66)	1,3-Dichloropropane	9.567	76	75594	4.67	ug/L		89
67)	1,2-Dibromoethane	9.738	107	35902	4.24	ug/L		99
68)	2-hexanone	9.896	43	173905	27.85	ug/L		95
69)	1-Chlorohexane	10.189	91	62850	4.42	ug/L		83
70)	Ethylbenzene	10.250	91	214852	4.59	ug/L		98
71)	Chlorobenzene	10.244	112	134520	4.98	ug/L		97
72)	1,1,1,2-Tetrachloroethane	10.299	131	38031	4.48	ug/L		95
73)	m,p-Xylene	10.390	91	323674	9.17	ug/L		98
74)	o-Xylene	10.829	91	155182	4.31	ug/L		98
75)	Styrene	10.884	104	93268	3.64	ug/L		96
76)	Bromoform	10.933	173	12147	3.47	ug/L		96
77)	Isopropylbenzene	11.140	105	186196	4.37	ug/L		99
80)	cis-1,4-Dichloro-2-butene	11.494	53	1991	2.18	ug/L	#	17
81)	n-Propylbenzene	11.561	91	248687	4.80	ug/L		99
82)	Bromobenzene	11.567	156	44367	4.22	ug/L		93
83)	1,1,2,2-Tetrachloroethane	11.616	83	55029	4.82	ug/L		97
84)	1,3,5-Trimethylbenzene	11.744	105	152243	4.25	ug/L		98
85)	2-Chlorotoluene	11.737	91	168721	4.83	ug/L		98
86)	trans-1,4-Dichloro-2-B...	11.805	53	3587	3.08	ug/L		90
87)	1,2,3-Trichloropropane	11.768	110	14974	4.97	ug/L		93
88)	Cyclohexanone	11.829	55	9969	25.00	ug/L		87
89)	4-Chlorotoluene	11.908	91	149575	4.63	ug/L		99
90)	tert-Butylbenzene	12.079	91	105110	4.93	ug/L		92

SGS ACCUTEST FA39742

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\122216\
Data File : I44365.D
Acq On : 22 Dec 2016 10:35 am
Operator : WILFREDO
Sample : IC1214-2 Inst : MSVOA16
Misc : MS35881,VI1214,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 22 12:58:36 2016
Quant Method : C:\msdchem\2\METHODS\I-DEC22.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon Nov 28 10:18:42 2016
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
91)	a-Methyl styrene	12.012	118	67151	3.77	ug/L		98
92)	1,2,4-Trimethylbenzene	12.152	105	152924	4.32	ug/L		98
93)	Pentachloroethane	12.128	167	19718	4.48	ug/L		89
94)	sec-Butylbenzene	12.262	105	214641	4.69	ug/L		98
95)	4-Isopropyltoluene	12.402	119	146060	3.97	ug/L		100
96)	1,3-Dichlorobenzene	12.524	146	90885	4.72	ug/L		96
97)	1,4-Dichlorobenzene	12.609	146	102651	5.01	ug/L		96
98)	n-Butylbenzene	12.841	92	91904	4.11	ug/L	#	84
99)	Benzyl Chloride	12.853	126	9425	3.20	ug/L	#	64
100)	1,2-Dichlorobenzene	13.048	146	85424	4.59	ug/L		96
101)	1,2-Dibromo-3-Chloropr...	13.835	75	5697	3.83	ug/L		83
102)	Hexachlorobutadiene	14.414	225	22061	4.18	ug/L		95
103)	1,2,4-Trichlorobenzene	14.456	180	43394	3.53	ug/L		99
104)	Naphthalene	14.731	128	84427	3.21	ug/L		100
105)	1,2,3-Trichlorobenzene	14.889	180	41753	3.75	ug/L		96
107)	Ethanol	3.733	45	13680m	120.19	ug/L		
108)	Acrolein	4.172	56	37385	22.14	ug/L		99
109)	Tert Butyl Alcohol	4.775	59	40493	46.46	ug/L	#	88
110)	Isobutyl alcohol	6.848	43	34871	99.95	ug/L		92
111)	Tert Amyl Alcohol	6.952	59	31200	46.78	ug/L		81
112)	1,4-Dioxane	8.055	88	7382m	93.17	ug/L		
113)	3,3-Dimethyl-1-butanol	9.848	57	132272	177.56	ug/L		95

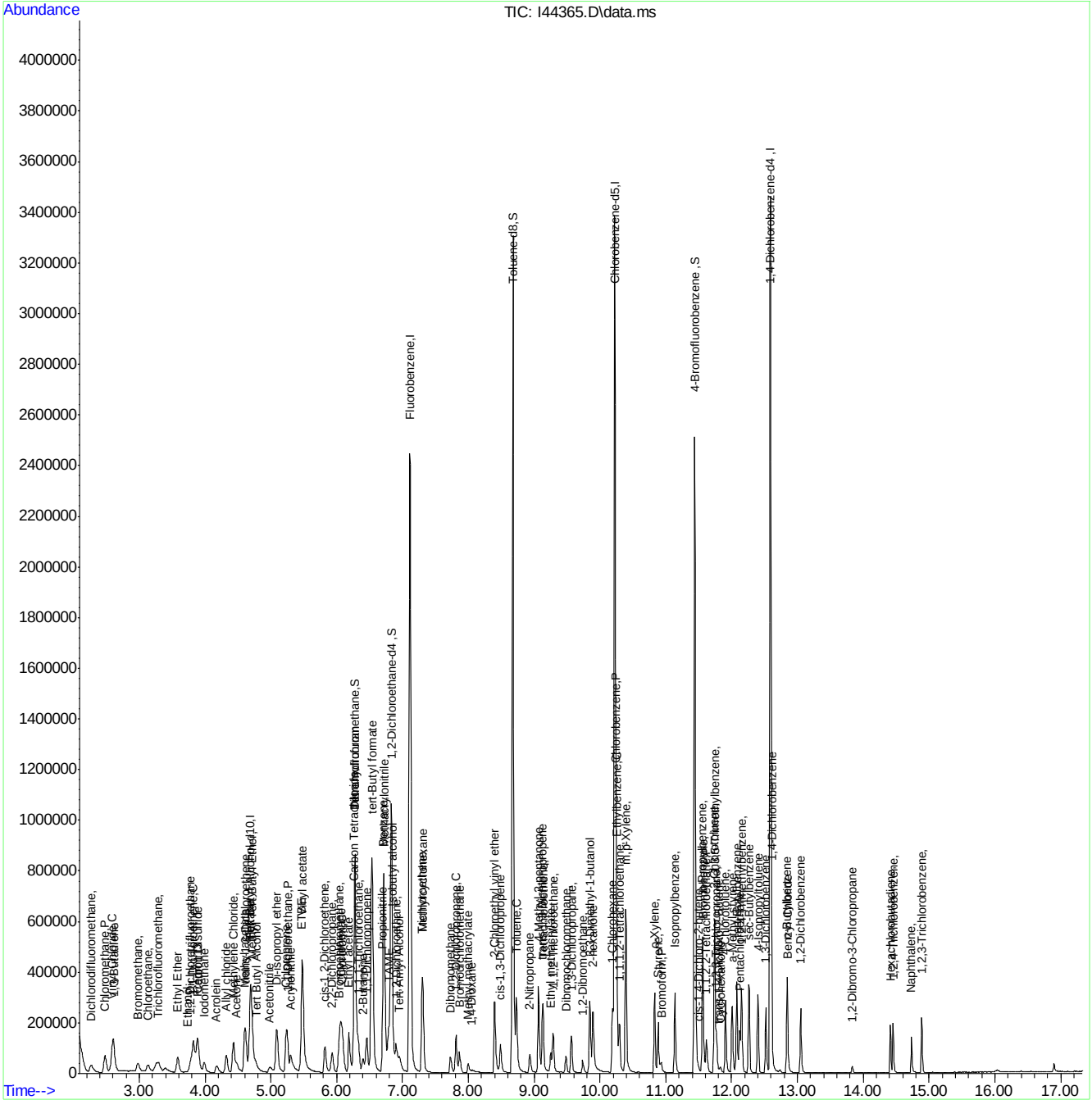
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST FA39742

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\122216\
Data File : I44365.D
Acq On : 22 Dec 2016 10:35 am
Operator : WILFREDO
Sample : IC1214-2 Inst : MSVOA16
Misc : MS35881,VI1214,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 22 12:58:36 2016
Quant Method : C:\msdchem\2\METHODS\I-DEC22.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon Nov 28 10:18:42 2016
Response via : Initial Calibration



SGS ACCUTEST FA39742

Manual Integration Approval Summary

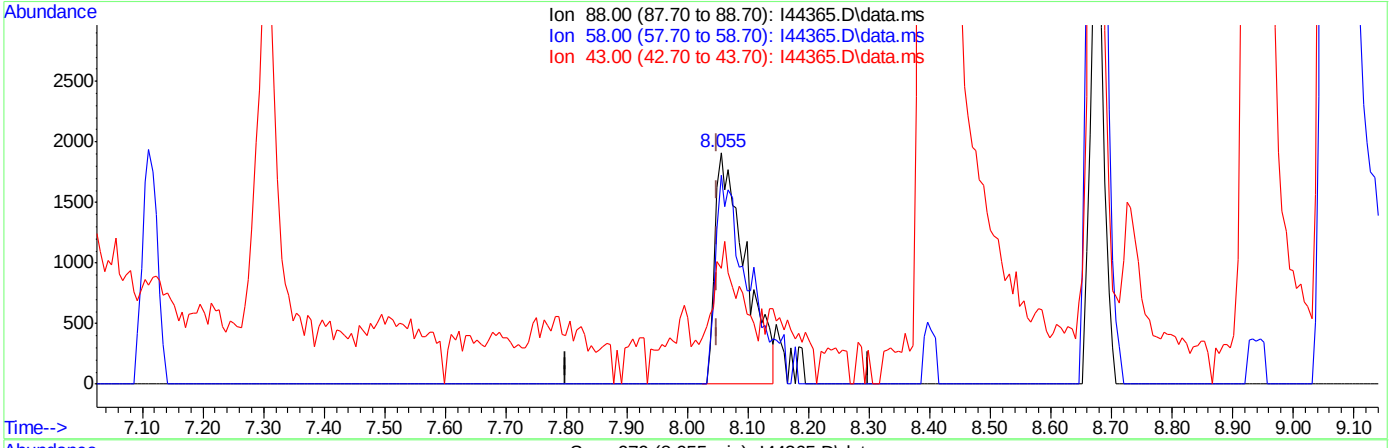
Sample Number:	VI1214-IC1214	**Method:**	SW846 8260B
Lab FileID:	I44365.D	**Analyst approved:**	12/23/16 14:46 Wilfredo Vazquez
Injection Time:	12/22/16 10:35	**Supervisor approved:**	12/23/16 14:50 Juan Garcia

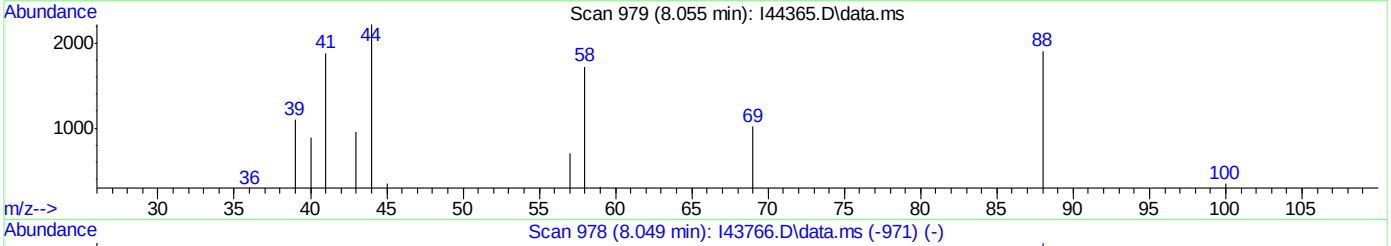
Parameter	CAS	Sig#	R.T. (min.)	Reason
Ethyl Alcohol	64-17-5		3.73	Poor instrument integration
1,4-Dioxane	123-91-1		8.06	Poor instrument integration

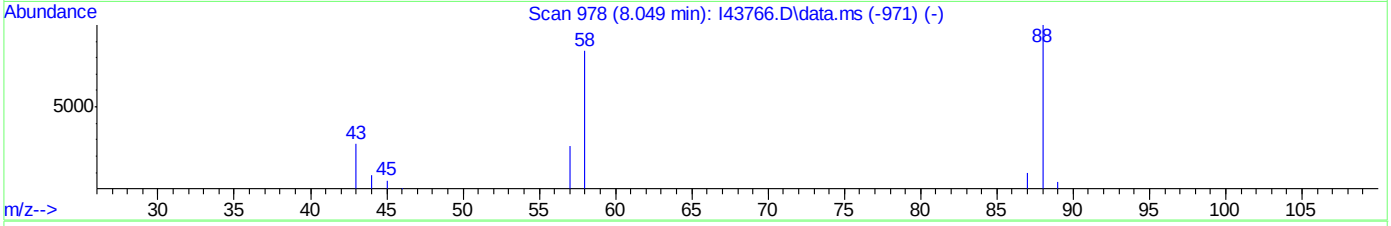
Quantitation Report (Qedit)

Data Path : C:\msdchem\2\DATA\122216\
Data File : I44365.D
Acq On : 22 Dec 2016 10:35 am
Operator : WILFREDO
Sample : IC1214-2 Inst : MSVOA16
Misc : MS35881,VI1214,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 22 12:42:14 2016
Quant Method : C:\msdchem\2\METHODS\I-DEC22.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon Nov 28 10:18:42 2016
Response via : Initial Calibration







TIC: I44365.D\data.ms

(112) 1,4-Dioxane

8.055min (+0.006) 83.79ug/L

response 6639

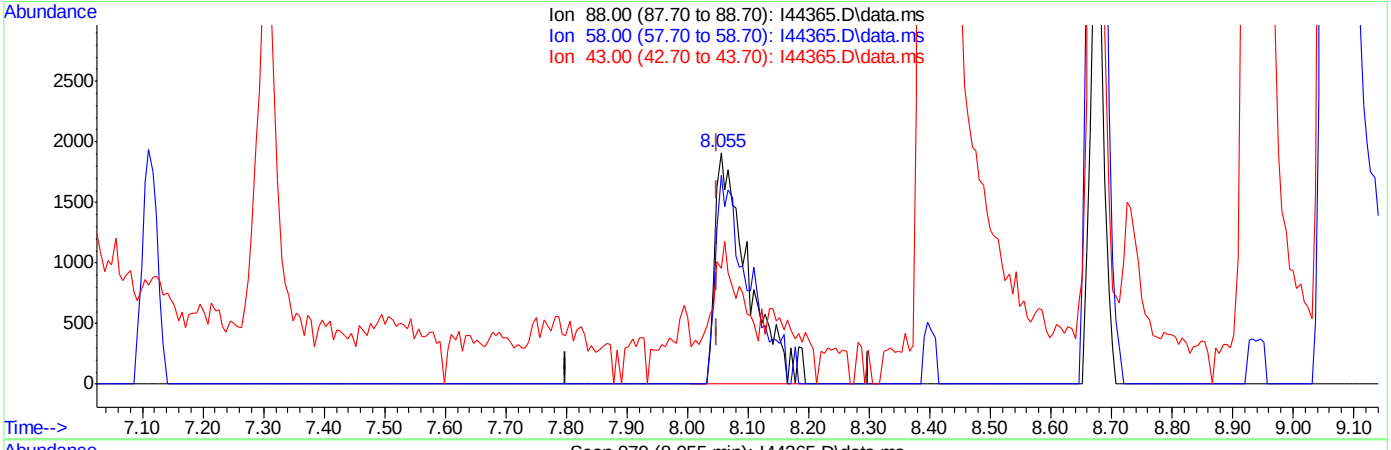
Ion	Exp%	Act%
88.00	100	100
58.00	84.10	90.33
43.00	28.90	30.01
0.00	0.00	0.00

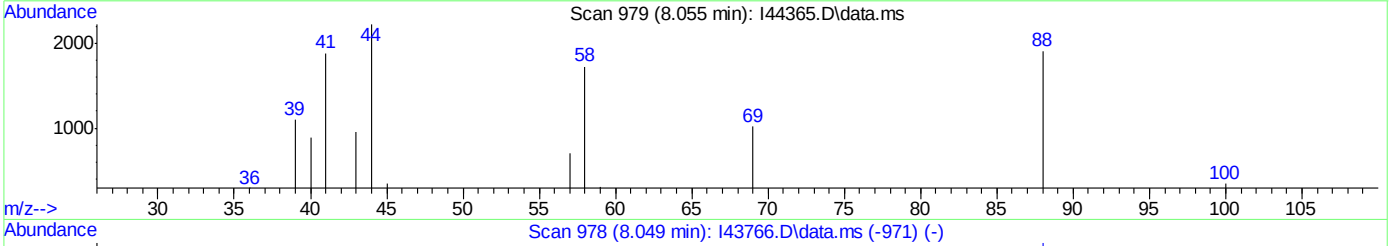
SGS ACCUTEST FA39742

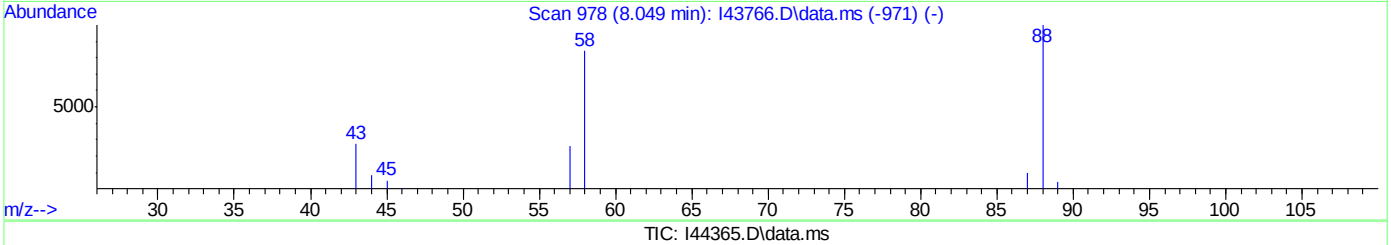
Quantitation Report (Qedit)

Data Path : C:\msdchem\2\DATA\122216\
Data File : I44365.D
Acq On : 22 Dec 2016 10:35 am
Operator : WILFREDO
Sample : IC1214-2 Inst : MSVOA16
Misc : MS35881,VI1214,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 22 12:42:14 2016
Quant Method : C:\msdchem\2\METHODS\I-DEC22.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon Nov 28 10:18:42 2016
Response via : Initial Calibration







TIC: I44365.D\data.ms

(112) 1,4-Dioxane

8.055min (+0.006) 93.17ug/L m

response 7382

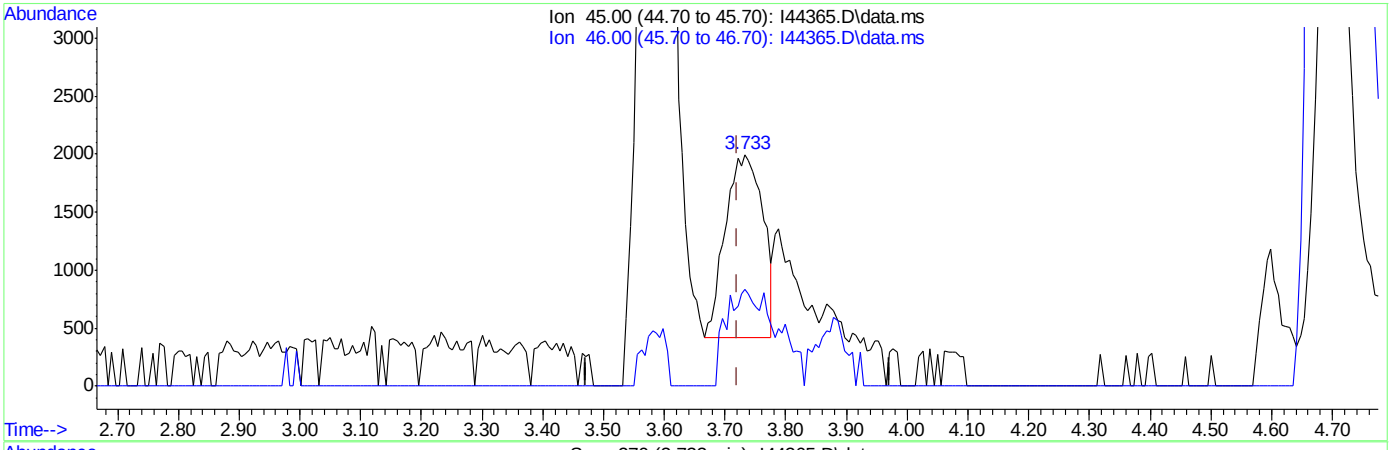
Ion	Exp%	Act%
88.00	100	100
58.00	84.10	90.33
43.00	28.90	50.24
0.00	0.00	0.00

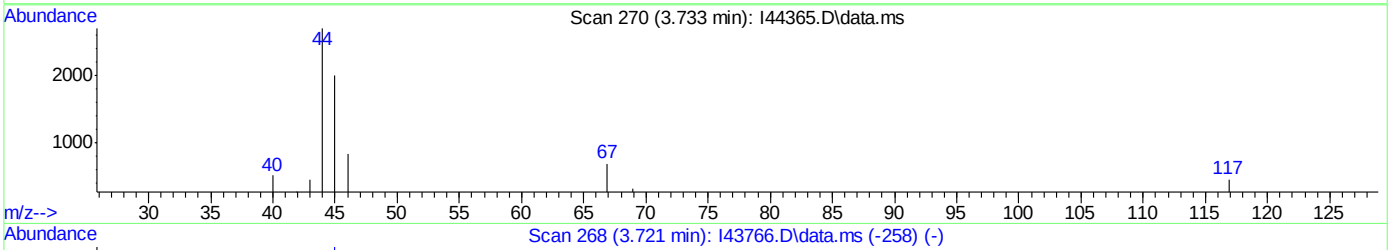
SGS ACCUTEST FA39742

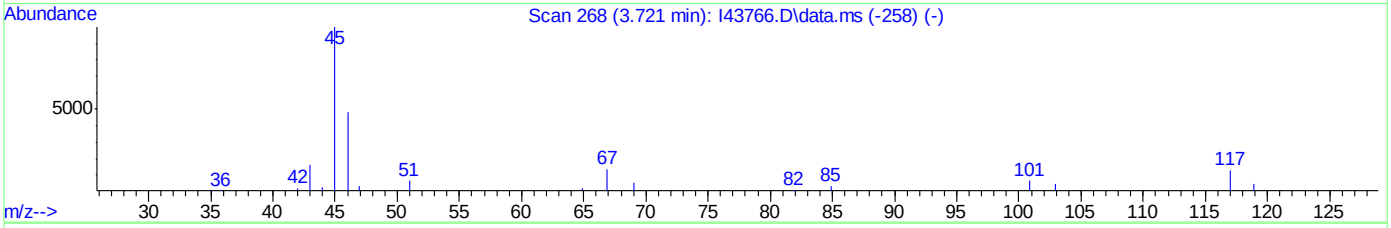
Quantitation Report (Qedit)

Data Path : C:\msdchem\2\DATA\122216\
Data File : I44365.D
Acq On : 22 Dec 2016 10:35 am
Operator : WILFREDO
Sample : IC1214-2 Inst : MSVOA16
Misc : MS35881,VI1214,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 22 12:42:14 2016
Quant Method : C:\msdchem\2\METHODS\I-DEC22.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon Nov 28 10:18:42 2016
Response via : Initial Calibration







TIC: I44365.D\data.ms

(107) Ethanol

3.733min (+0.012) 59.43ug/L

response 6764

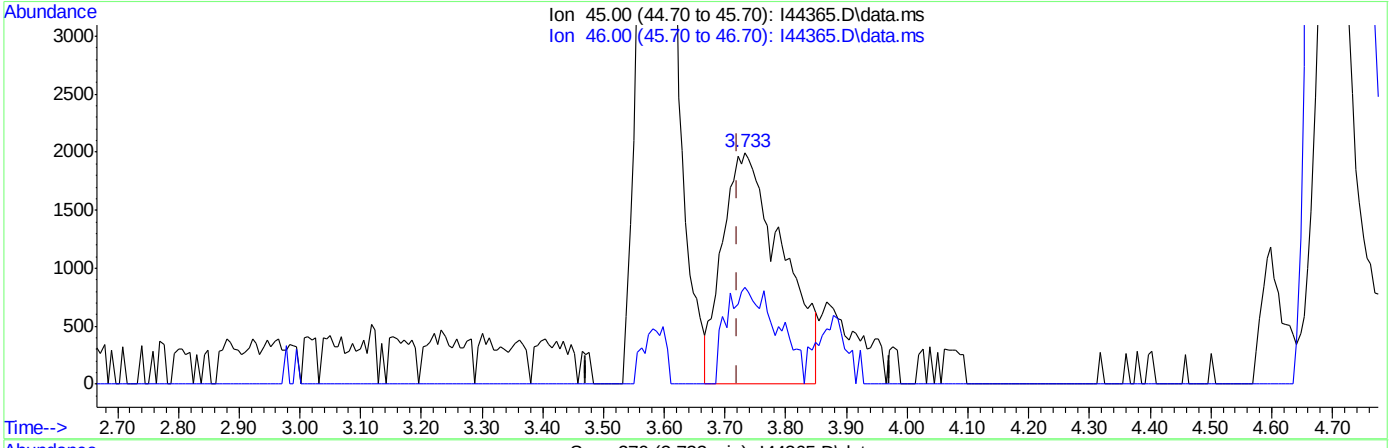
Ion	Exp%	Act%
45.00	100	100
46.00	39.10	53.11
0.00	0.00	0.00
0.00	0.00	0.00

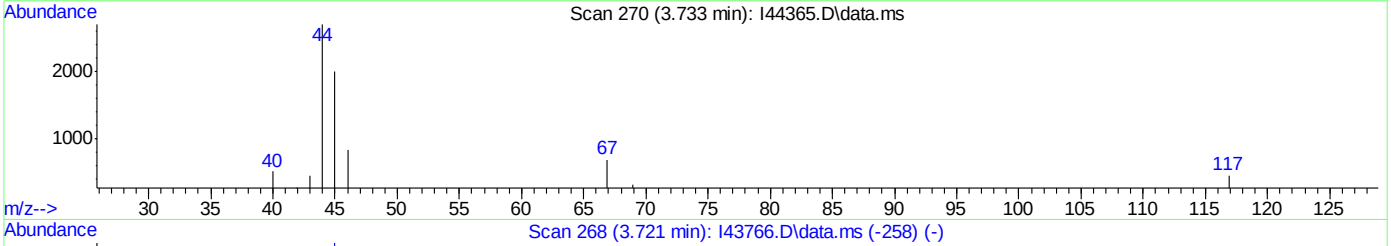
SGS ACCUTEST FA39742

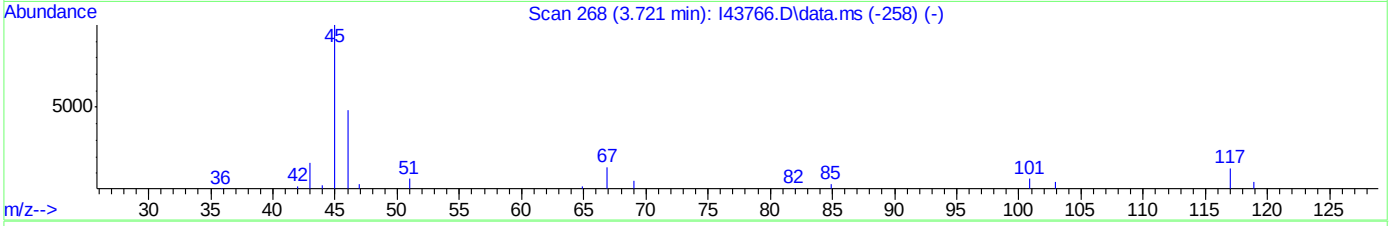
Quantitation Report (Qedit)

Data Path : C:\msdchem\2\DATA\122216\
Data File : I44365.D
Acq On : 22 Dec 2016 10:35 am
Operator : WILFREDO
Sample : IC1214-2 Inst : MSVOA16
Misc : MS35881,VI1214,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 22 12:42:14 2016
Quant Method : C:\msdchem\2\METHODS\I-DEC22.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon Nov 28 10:18:42 2016
Response via : Initial Calibration







TIC: I44365.D\data.ms

(107) Ethanol

3.733min (+0.012) 120.19ug/L m

response 13680

Ion	Exp%	Act%
45.00	100	100
46.00	39.10	41.94
0.00	0.00	0.00
0.00	0.00	0.00

SGS ACCUTEST FA39742

Manual Integrations APPROVED (compounds with "m" flag)
Juan Garcia
12/23/16 14:50

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\122216\
Data File : I44366.D
Acq On : 22 Dec 2016 10:59 am
Operator : WILFREDO
Sample : IC1214-3 Inst : MSVOA16
Misc : MS35881,VI1214,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Dec 22 12:59:17 2016
Quant Method : C:\msdchem\2\METHODS\I-DEC22.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon Nov 28 10:18:42 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.116	96	2093436	50.00	ug/L	0.00
56) Chlorobenzene-d5	10.226	117	1423486	50.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	12.591	152	693559	50.00	ug/L	0.00
106) Tert Butyl Alcohol-d10	4.696	65	187849	250.00	ug/L	0.00
System Monitoring Compounds						
36) Dibromofluoromethane	6.275	113	535768	51.35	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 102.70%			
46) 1,2-Dichloroethane-d4	6.830	65	774936	55.99	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 111.98%			
57) Toluene-d8	8.677	98	1931713	49.08	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 98.16%			
79) 4-Bromofluorobenzene	11.439	174	500929	48.67	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 97.34%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.270	85	151042	9.96	ug/L	97
3) Chloromethane	2.483	50	228097	12.56	ug/L	97
4) 1,3-Butadiene	2.617	39	158531	12.32	ug/L	95
5) Vinyl Chloride	2.599	62	170773	12.11	ug/L	99
6) Bromomethane	2.983	94	56054	12.08	ug/L	95
7) Chloroethane	3.142	64	75758	13.97	ug/L	99
8) Trichlorofluoromethane	3.294	101	163393	12.11	ug/L	97
9) Ethyl Ether	3.587	59	124140	11.64	ug/L	91
10) 1,2-Dichlorotrifluoroe...	3.782	67	149704m	12.04	ug/L	
11) 1,1-Dichloroethene	3.824	61	210904	11.91	ug/L	96
12) Freon 113	3.904	101	117613	11.77	ug/L	97
13) Carbon Disulfide	3.885	76	347284	11.10	ug/L	95
14) Iodomethane	3.989	142	153671	10.03	ug/L	99
15) Allyl chloride	4.324	41	154830	11.66	ug/L	97
16) Methylene Chloride	4.434	49	222647	12.80	ug/L	95
17) Acetone	4.477	43	160534	53.87	ug/L	97
18) Methyl acetate	4.592	43	427412	60.36	ug/L	97
19) trans-1,2-Dichloroethene	4.611	61	195640	12.23	ug/L	95
20) Hexane	4.690	56	165404	13.07	ug/L #	92
21) Methyl Tert Butyl Ether	4.708	73	289958	10.55	ug/L	92
22) Acetonitrile	4.970	41	98947	105.91	ug/L	95
23) Di-isopropyl ether	5.086	45	470482	11.71	ug/L	96
24) Chloroprene	5.233	53	212531	10.84	ug/L	95
25) 1,1-Dichloroethane	5.251	63	234043	11.34	ug/L	99
26) Acrylonitrile	5.294	53	209840	48.81	ug/L	99
27) ETBE	5.470	59	420834	11.34	ug/L	96
28) Vinyl acetate	5.476	43	1494416	62.33	ug/L	99
29) cis-1,2-Dichloroethene	5.818	96	115418	9.99	ug/L	95
30) 2,2-Dichloropropane	5.934	77	114677	11.37	ug/L	99
31) Bromochloromethane	6.031	128	53400	10.48	ug/L #	86
32) Cyclohexane	6.062	56	262177	11.91	ug/L	94
33) Chloroform	6.086	83	218084	11.16	ug/L	96
34) Ethyl acetate	6.178	43	589940	60.90	ug/L	100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\122216\
Data File : I44366.D
Acq On : 22 Dec 2016 10:59 am
Operator : WILFREDO
Sample : IC1214-3 Inst : MSVOA16
Misc : MS35881,VI1214,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Dec 22 12:59:17 2016
Quant Method : C:\msdchem\2\METHODS\I-DEC22.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon Nov 28 10:18:42 2016
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
35)	Tetrahydrofuran	6.269	42	35346	12.55	ug/L		91
37)	Carbon Tetrachloride	6.269	117	128745	11.02	ug/L		98
38)	1,1,1-Trichloroethane	6.330	97	174978	11.19	ug/L		98
39)	2-Butanone	6.391	43	226196	55.21	ug/L		95
40)	1,1-Dichloropropene	6.452	75	157435	10.86	ug/L		93
41)	tert-Butyl formate	6.537	59	801590	106.64	ug/L		96
42)	Propionitrile	6.690	54	179583	114.66	ug/L		82
43)	Methacrylonitrile	6.714	41	745368	121.41	ug/L		99
44)	Benzene	6.708	78	420156	10.30	ug/L		81
45)	TAME	6.793	73	285506	10.58	ug/L		88
47)	1,2-Dichloroethane	6.903	62	182819	11.23	ug/L		97
48)	Trichloroethene	7.299	95	121962	10.93	ug/L		99
49)	Methylcyclohexane	7.305	83	208565	11.36	ug/L		92
50)	Dibromomethane	7.726	93	66464	10.49	ug/L		96
51)	1,2-Dichloropropane	7.811	63	127689	10.85	ug/L		94
52)	Bromodichloromethane	7.866	83	131243	10.59	ug/L		97
53)	Methyl methacrylate	7.988	41	71377	9.05	ug/L		92
54)	2-Chloroethyl vinyl ether	8.397	63	330079	51.83	ug/L		94
55)	cis-1,3-Dichloropropene	8.488	75	147827	10.67	ug/L		93
58)	Toluene	8.732	91	411363	9.69	ug/L		97
59)	2-Nitropropane	8.933	41	110984	52.73	ug/L		93
60)	4-Methyl-2-pentanone	9.061	43	582068	60.32	ug/L		95
61)	trans-1,3-Dichloropropene	9.122	75	124695	11.01	ug/L		92
62)	Tetrachloroethene	9.134	166	104105	10.33	ug/L		98
63)	Ethyl methacrylate	9.250	69	108005	9.33	ug/L		91
64)	1,1,2-Trichloroethane	9.287	83	82885	10.75	ug/L		98
65)	Dibromochloromethane	9.482	129	76322	9.65	ug/L		98
66)	1,3-Dichloropropane	9.567	76	169668	10.37	ug/L		93
67)	1,2-Dibromoethane	9.738	107	83485	9.74	ug/L		99
68)	2-hexanone	9.890	43	413492	65.48	ug/L		96
69)	1-Chlorohexane	10.189	91	146192	10.17	ug/L		85
70)	Ethylbenzene	10.250	91	476103	10.07	ug/L		98
71)	Chlorobenzene	10.244	112	295555	10.81	ug/L		96
72)	1,1,1,2-Tetrachloroethane	10.299	131	87578	10.19	ug/L		98
73)	m,p-Xylene	10.390	91	734015	20.57	ug/L		98
74)	o-Xylene	10.829	91	373157	10.25	ug/L		99
75)	Styrene	10.878	104	237608	9.17	ug/L		94
76)	Bromoform	10.927	173	31618	8.93	ug/L		98
77)	Isopropylbenzene	11.134	105	445144	10.34	ug/L		98
80)	cis-1,4-Dichloro-2-butene	11.487	53	7234	7.72	ug/L	#	76
81)	n-Propylbenzene	11.555	91	576430	10.83	ug/L		97
82)	Bromobenzene	11.567	156	100746	9.33	ug/L		98
83)	1,1,2,2-Tetrachloroethane	11.615	83	125271	10.67	ug/L		99
84)	1,3,5-Trimethylbenzene	11.743	105	362245	9.84	ug/L		97
85)	2-Chlorotoluene	11.737	91	388687	10.83	ug/L		97
86)	trans-1,4-Dichloro-2-B...	11.798	53	12048	10.06	ug/L		87
87)	1,2,3-Trichloropropane	11.768	110	32886	10.63	ug/L		91
88)	Cyclohexanone	11.829	55	21375	52.19	ug/L		92
89)	4-Chlorotoluene	11.902	91	348839	10.52	ug/L		98
90)	tert-Butylbenzene	12.079	91	243122	11.11	ug/L		94

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\122216\
Data File : I44366.D
Acq On : 22 Dec 2016 10:59 am
Operator : WILFREDO
Sample : IC1214-3 Inst : MSVOA16
Misc : MS35881,VI1214,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Dec 22 12:59:17 2016
Quant Method : C:\msdchem\2\METHODS\I-DEC22.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon Nov 28 10:18:42 2016
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
91)	a-Methyl styrene	12.006	118	168797	9.24	ug/L		98
92)	1,2,4-Trimethylbenzene	12.152	105	358989	9.87	ug/L		99
93)	Pentachloroethane	12.121	167	45383	10.04	ug/L		96
94)	sec-Butylbenzene	12.262	105	505173	10.75	ug/L		98
95)	4-Isopropyltoluene	12.402	119	352106	9.32	ug/L		99
96)	1,3-Dichlorobenzene	12.518	146	207637	10.51	ug/L		97
97)	1,4-Dichlorobenzene	12.603	146	217735	10.36	ug/L		92
98)	n-Butylbenzene	12.841	92	226938	9.89	ug/L		88
99)	Benzyl Chloride	12.847	126	27704	9.16	ug/L	#	16
100)	1,2-Dichlorobenzene	13.048	146	196045	10.26	ug/L		98
101)	1,2-Dibromo-3-Chloropr...	13.835	75	13993	9.17	ug/L		88
102)	Hexachlorobutadiene	14.414	225	50960	9.39	ug/L		97
103)	1,2,4-Trichlorobenzene	14.450	180	106699	8.45	ug/L		97
104)	Naphthalene	14.731	128	226214	8.37	ug/L		99
105)	1,2,3-Trichlorobenzene	14.889	180	98492	8.61	ug/L		99
107)	Ethanol	3.715	45	26242m	223.20	ug/L		
108)	Acrolein	4.172	56	90781	52.05	ug/L		99
109)	Tert Butyl Alcohol	4.775	59	101422	112.65	ug/L		87
110)	Isobutyl alcohol	6.848	43	79859	221.59	ug/L		97
111)	Tert Amyl Alcohol	6.952	59	72676	105.50	ug/L		84
112)	1,4-Dioxane	8.055	88	17449	213.20	ug/L		95
113)	3,3-Dimethyl-1-butanol	9.841	57	361468	469.74	ug/L		97

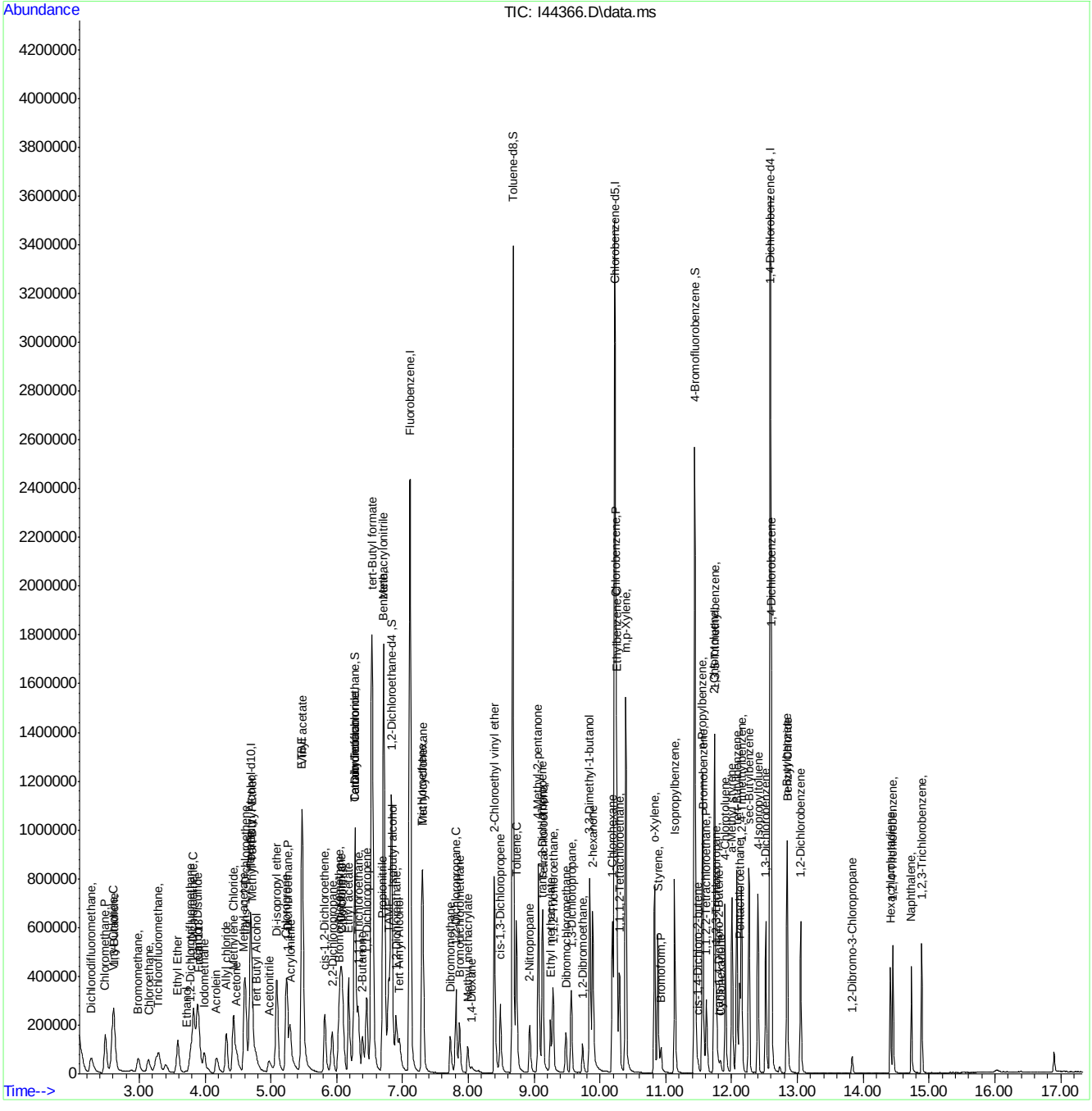
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST FA39742

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\122216\
Data File : I44366.D
Acq On : 22 Dec 2016 10:59 am
Operator : WILFREDO
Sample : IC1214-3 Inst : MSVOA16
Misc : MS35881,VI1214,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Dec 22 12:59:17 2016
Quant Method : C:\msdchem\2\METHODS\I-DEC22.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon Nov 28 10:18:42 2016
Response via : Initial Calibration



SGS ACCUTEST FA39742

Manual Integration Approval Summary

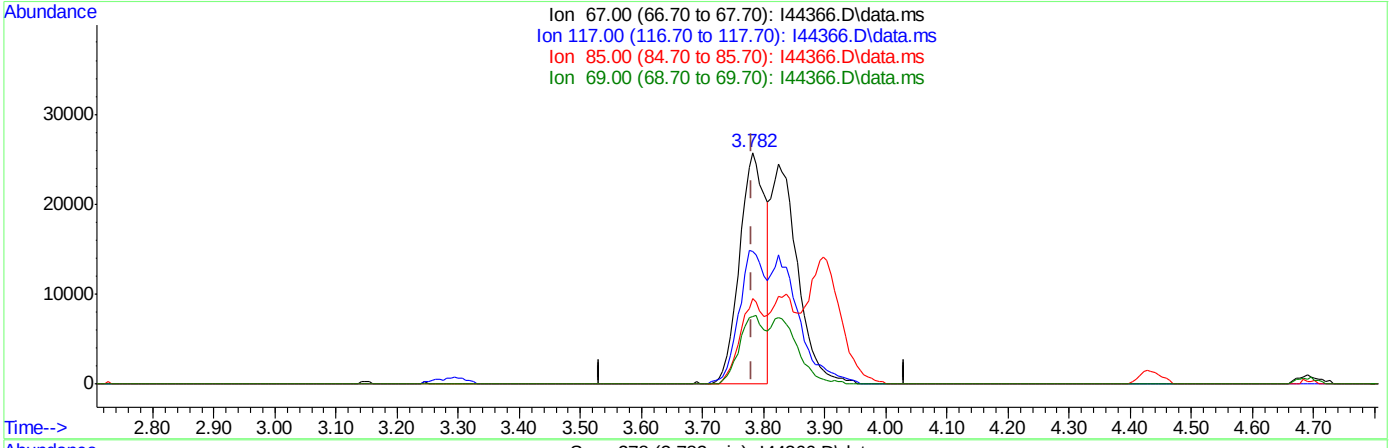
Sample Number:	VI1214-IC1214	**Method:**	SW846 8260B
Lab FileID:	I44366.D	**Analyst approved:**	12/23/16 14:46 Wilfredo Vazquez
Injection Time:	12/22/16 10:59	**Supervisor approved:**	12/23/16 14:50 Juan Garcia

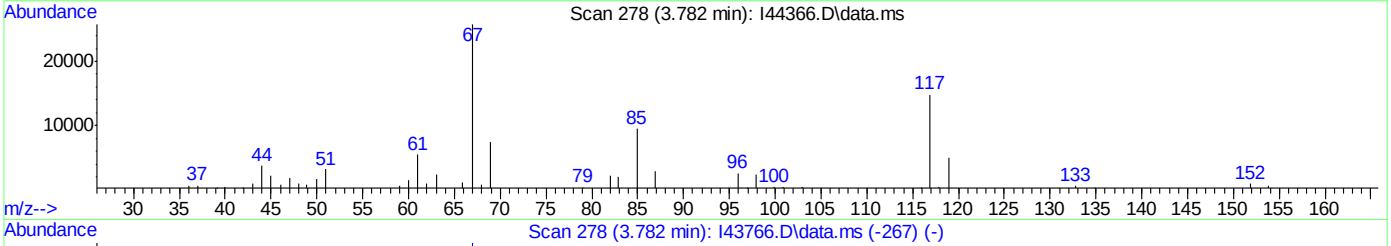
Parameter	CAS	Sig#	R.T. (min.)	Reason
Ethyl Alcohol	64-17-5		3.71	Poor instrument integration
1,2-Dichlorotrifluoroethane	354-23-4		3.78	Split peak

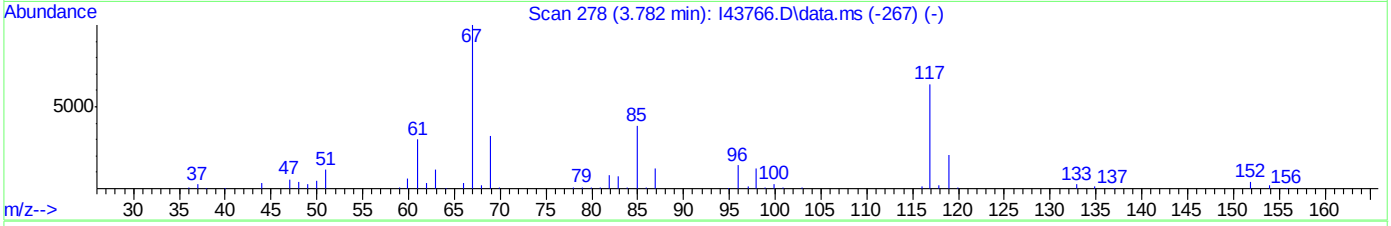
Quantitation Report (Qedit)

Data Path : C:\msdchem\2\DATA\122216\
Data File : I44366.D
Acq On : 22 Dec 2016 10:59 am
Operator : WILFREDO
Sample : IC1214-3 Inst : MSVOA16
Misc : MS35881,VI1214,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Dec 22 12:42:17 2016
Quant Method : C:\msdchem\2\METHODS\I-DEC22.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon Nov 28 10:18:42 2016
Response via : Initial Calibration







TIC: I44366.D\data.ms

(10) 1,2-Dichlorotrifluoroethane

3.782min (+0.000) 6.08ug/L

response 75645

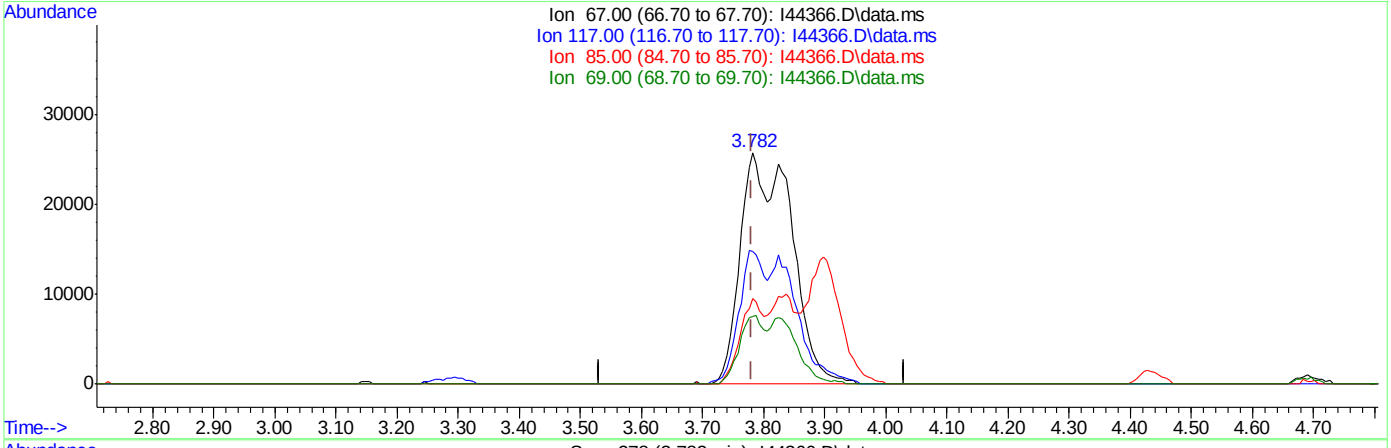
Ion	Exp%	Act%
67.00	100	100
117.00	64.40	57.45
85.00	38.00	36.77
69.00	32.20	29.07

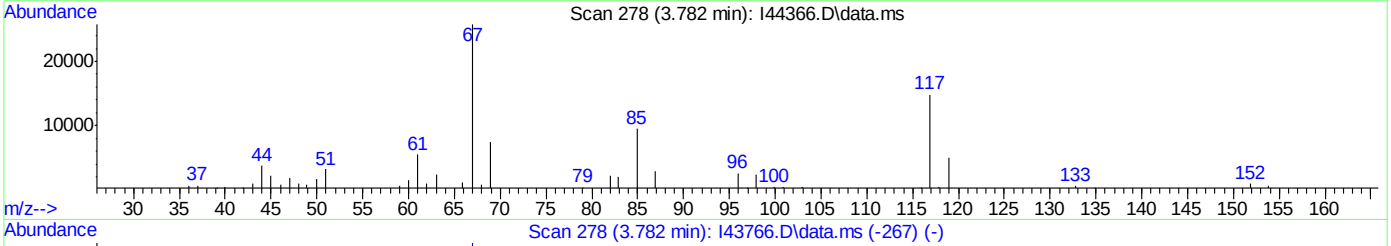
SGS ACCUTEST FA39742

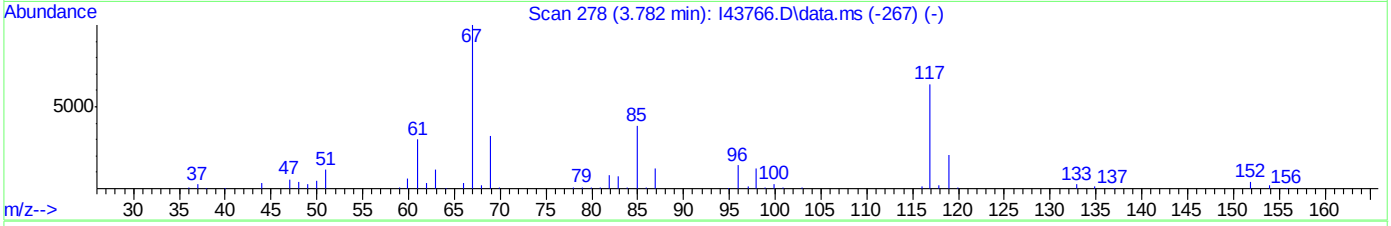
Quantitation Report (Qedit)

Data Path : C:\msdchem\2\DATA\122216\
Data File : I44366.D
Acq On : 22 Dec 2016 10:59 am
Operator : WILFREDO
Sample : IC1214-3 Inst : MSVOA16
Misc : MS35881,VI1214,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Dec 22 12:42:17 2016
Quant Method : C:\msdchem\2\METHODS\I-DEC22.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon Nov 28 10:18:42 2016
Response via : Initial Calibration







TIC: I44366.D\data.ms

(10) 1,2-Dichlorotrifluoroethane

3.782min (+0.000) 12.04ug/L m

response 149704

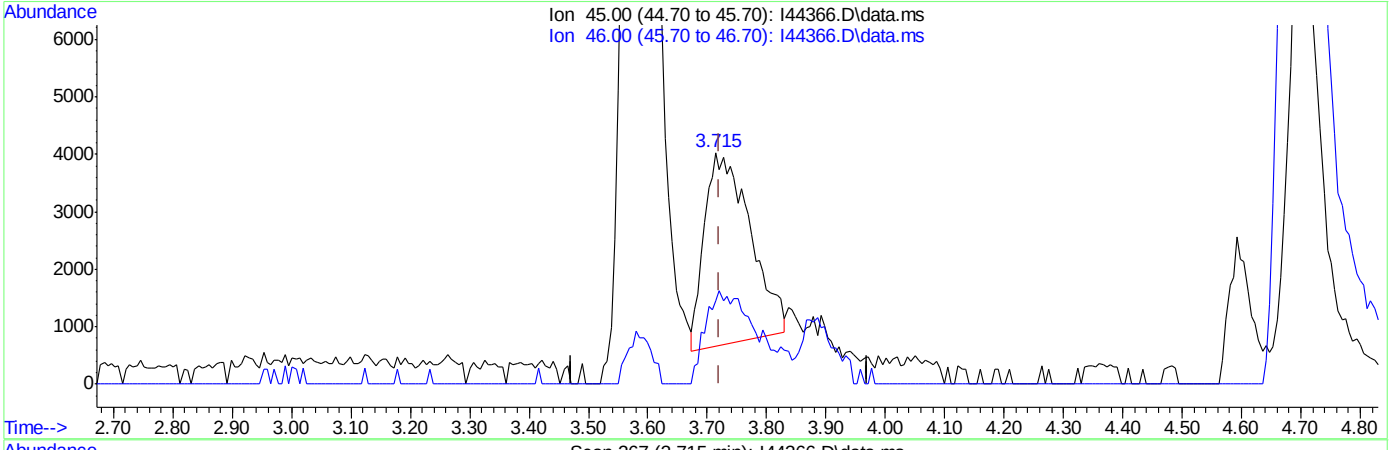
Ion	Exp%	Act%
67.00	100	100
117.00	64.40	57.45
85.00	38.00	36.77
69.00	32.20	29.07

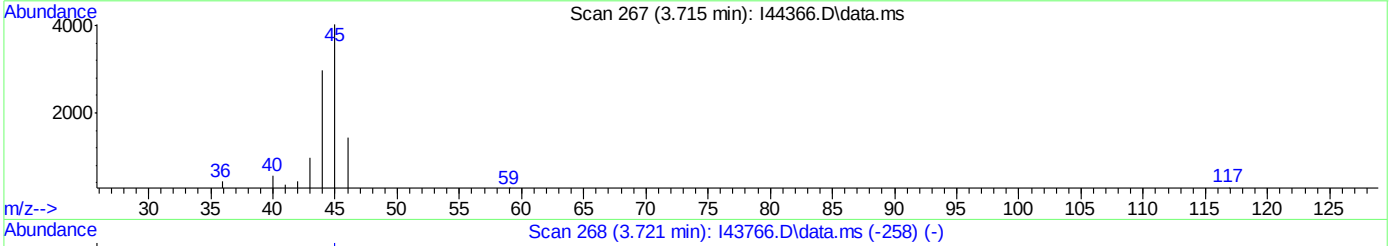
SGS ACCUTEST FA39742

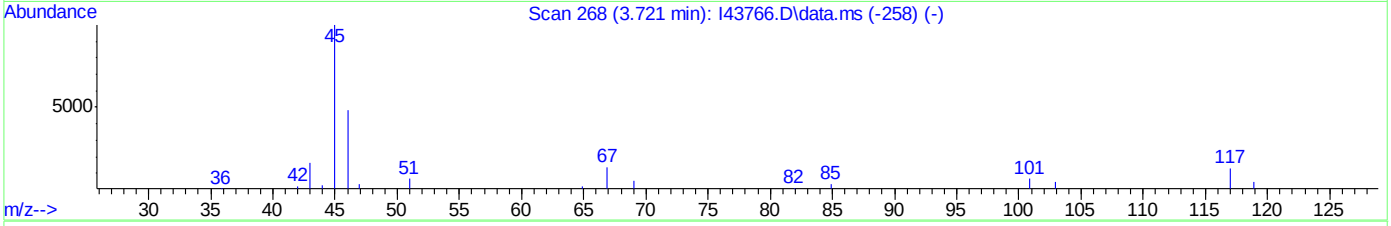
Quantitation Report (Qedit)

Data Path : C:\msdchem\2\DATA\122216\
Data File : I44366.D
Acq On : 22 Dec 2016 10:59 am
Operator : WILFREDO
Sample : IC1214-3 Inst : MSVOA16
Misc : MS35881,VI1214,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Dec 22 12:42:17 2016
Quant Method : C:\msdchem\2\METHODS\I-DEC22.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon Nov 28 10:18:42 2016
Response via : Initial Calibration







TIC: I44366.D\data.ms

(107) Ethanol

3.715min (-0.006) 152.59ug/L

response 17940

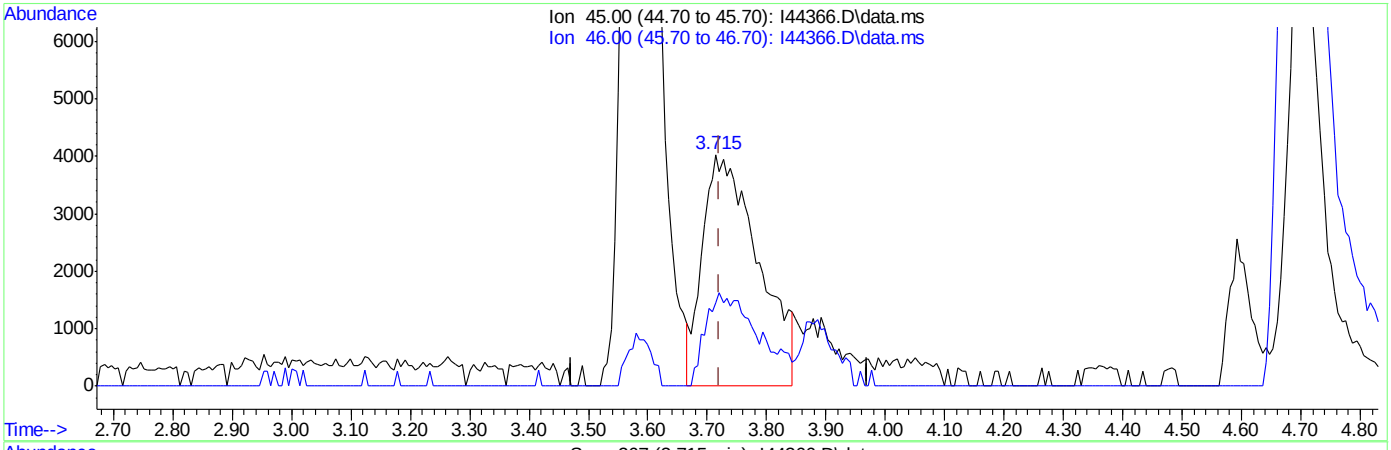
Ion	Exp%	Act%
45.00	100	100
46.00	39.10	46.24
0.00	0.00	0.00
0.00	0.00	0.00

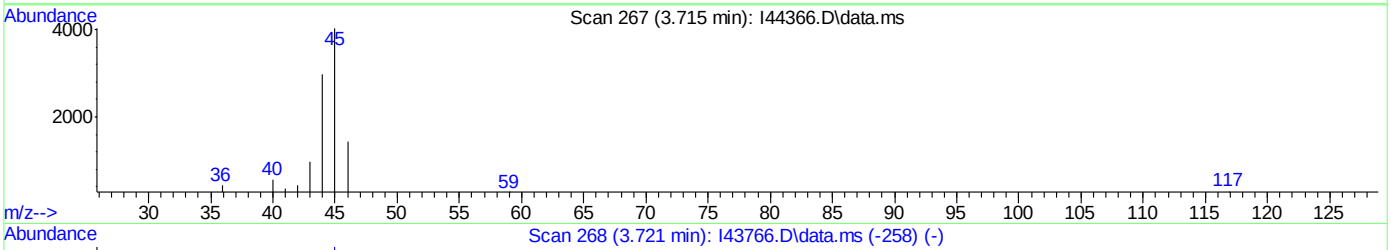
SGS ACCUTEST FA39742

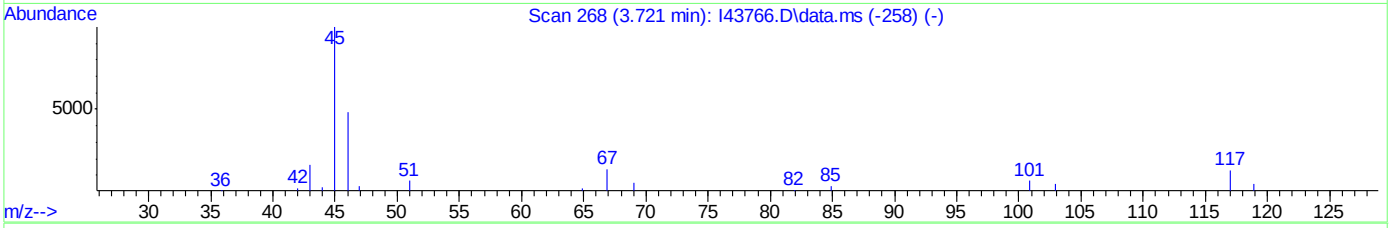
Quantitation Report (Qedit)

Data Path : C:\msdchem\2\DATA\122216\
Data File : I44366.D
Acq On : 22 Dec 2016 10:59 am
Operator : WILFREDO
Sample : IC1214-3 Inst : MSVOA16
Misc : MS35881,VI1214,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Dec 22 12:42:17 2016
Quant Method : C:\msdchem\2\METHODS\I-DEC22.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon Nov 28 10:18:42 2016
Response via : Initial Calibration







TIC: I44366.D\data.ms

(107) Ethanol

3.715min (-0.006) 223.20ug/L m

response 26242

Ion	Exp%	Act%
45.00	100	100
46.00	39.10	35.82
0.00	0.00	0.00
0.00	0.00	0.00

SGS ACCUTEST FA39742

Manual Integrations APPROVED (compounds with "m" flag)
Juan Garcia
12/23/16 14:50

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\122216\
Data File : I44367.D
Acq On : 22 Dec 2016 11:23 am
Operator : WILFREDO
Sample : IC1214-4 Inst : MSVOA16
Misc : MS35881,VI1214,,,,,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Dec 22 13:42:14 2016
Quant Method : C:\msdchem\2\METHODS\I-DEC22.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon Nov 28 10:18:42 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.116	96	2194490	50.00	ug/L	0.00
56) Chlorobenzene-d5	10.226	117	1471179	50.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	12.591	152	721912	50.00	ug/L	0.00
106) Tert Butyl Alcohol-d10	4.690	65	190676	250.00	ug/L	0.00
System Monitoring Compounds						
36) Dibromofluoromethane	6.275	113	544602	49.79	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 99.58%			
46) 1,2-Dichloroethane-d4	6.830	65	775019	53.42	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 106.84%			
57) Toluene-d8	8.677	98	2033310	49.99	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 99.98%			
79) 4-Bromofluorobenzene	11.439	174	523452	48.87	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 97.74%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.270	85	354038	22.27	ug/L	100
3) Chloromethane	2.483	50	541181	28.43	ug/L	99
4) 1,3-Butadiene	2.611	39	402511	29.84	ug/L	97
5) Vinyl Chloride	2.605	62	423585	28.65	ug/L	99
6) Bromomethane	2.983	94	134862	27.72	ug/L	97
7) Chloroethane	3.136	64	174109	30.62	ug/L	99
8) Trichlorofluoromethane	3.294	101	415122	29.35	ug/L	99
9) Ethyl Ether	3.587	59	322858	28.87	ug/L	93
10) 1,2-Dichlorotrifluoroe...	3.782	67	367748m	28.21	ug/L	
11) 1,1-Dichloroethene	3.824	61	529691	28.53	ug/L	95
12) Freon 113	3.904	101	278709	26.62	ug/L	97
13) Carbon Disulfide	3.879	76	908690	27.70	ug/L	95
14) Iodomethane	3.989	142	406301	25.30	ug/L	98
15) Allyl chloride	4.318	41	473958	34.06	ug/L	97
16) Methylene Chloride	4.428	49	532718	29.23	ug/L	93
17) Acetone	4.471	43	440689	141.06	ug/L	94
18) Methyl acetate	4.593	43	1113126	149.95	ug/L	97
19) trans-1,2-Dichloroethene	4.611	61	493058	29.40	ug/L	97
20) Hexane	4.690	56	390489	29.42	ug/L	94
21) Methyl Tert Butyl Ether	4.708	73	757389	26.30	ug/L	93
22) Acetonitrile	4.958	41	280385	286.29	ug/L	99
23) Di-isopropyl ether	5.086	45	1235317	29.33	ug/L	97
24) Chloroprene	5.227	53	598787	29.13	ug/L	96
25) 1,1-Dichloroethane	5.245	63	592542	27.39	ug/L	99
26) Acrylonitrile	5.281	53	571240	126.74	ug/L	99
27) ETBE	5.464	59	1091761	28.07	ug/L	97
28) Vinyl acetate	5.470	43	3794390	150.97	ug/L	99
29) cis-1,2-Dichloroethene	5.812	96	294984	24.35	ug/L	93
30) 2,2-Dichloropropane	5.934	77	286503	27.09	ug/L	99
31) Bromochloromethane	6.025	128	138560	25.94	ug/L #	86
32) Cyclohexane	6.062	56	666330	28.87	ug/L	96
33) Chloroform	6.086	83	552467	26.98	ug/L	98
34) Ethyl acetate	6.172	43	1480154	145.77	ug/L	100

SGS ACCUTEST FA39742

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\122216\
Data File : I44367.D
Acq On : 22 Dec 2016 11:23 am
Operator : WILFREDO
Sample : IC1214-4 Inst : MSVOA16
Misc : MS35881,VI1214,,,,,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Dec 22 13:42:14 2016
Quant Method : C:\msdchem\2\METHODS\I-DEC22.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon Nov 28 10:18:42 2016
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
35)	Tetrahydrofuran	6.269	42	85515	28.96	ug/L		97
37)	Carbon Tetrachloride	6.269	117	330438	26.99	ug/L		98
38)	1,1,1-Trichloroethane	6.330	97	438875	26.77	ug/L		97
39)	2-Butanone	6.385	43	686152	159.77	ug/L		97
40)	1,1-Dichloropropene	6.452	75	406582	26.76	ug/L		95
41)	tert-Butyl formate	6.531	59	2234750	283.61	ug/L		98
42)	Propionitrile	6.690	54	472434	287.75	ug/L	#	70
43)	Methacrylonitrile	6.714	41	1982983	308.13	ug/L		99
44)	Benzene	6.702	78	1048240	24.51	ug/L		87
45)	TAME	6.793	73	739871	26.15	ug/L		93
47)	1,2-Dichloroethane	6.903	62	457409	26.80	ug/L		98
48)	Trichloroethene	7.293	95	299746	25.63	ug/L		97
49)	Methylcyclohexane	7.305	83	516450	26.83	ug/L		94
50)	Dibromomethane	7.720	93	170026	25.61	ug/L		95
51)	1,2-Dichloropropane	7.811	63	333334	27.03	ug/L		97
52)	Bromodichloromethane	7.866	83	362269	27.88	ug/L		99
53)	Methyl methacrylate	7.982	41	234062	28.31	ug/L		92
54)	2-Chloroethyl vinyl ether	8.391	63	923044	138.26	ug/L		93
55)	cis-1,3-Dichloropropene	8.482	75	410610	28.27	ug/L		90
58)	Toluene	8.726	91	1048609	23.91	ug/L		99
59)	2-Nitropropane	8.933	41	324494	149.16	ug/L		98
60)	4-Methyl-2-pentanone	9.061	43	1697434	170.19	ug/L		96
61)	trans-1,3-Dichloropropene	9.122	75	348310	29.75	ug/L		93
62)	Tetrachloroethene	9.128	166	263922	25.33	ug/L		97
63)	Ethyl methacrylate	9.244	69	333255	27.86	ug/L		90
64)	1,1,2-Trichloroethane	9.281	83	213881	26.84	ug/L		96
65)	Dibromochloromethane	9.482	129	220700	27.00	ug/L		99
66)	1,3-Dichloropropane	9.561	76	435255	25.74	ug/L		91
67)	1,2-Dibromoethane	9.732	107	226966	25.62	ug/L		97
68)	2-hexanone	9.884	43	1206541	184.87	ug/L		95
69)	1-Chlorohexane	10.189	91	397279	26.75	ug/L		88
70)	Ethylbenzene	10.250	91	1193348	24.42	ug/L		98
71)	Chlorobenzene	10.244	112	735323	26.03	ug/L		96
72)	1,1,1,2-Tetrachloroethane	10.293	131	227540	25.62	ug/L		99
73)	m,p-Xylene	10.390	91	1940457	52.63	ug/L		99
74)	o-Xylene	10.829	91	1004219	26.69	ug/L		100
75)	Styrene	10.878	104	654722	24.46	ug/L		97
76)	Bromoform	10.927	173	101333	27.68	ug/L		97
77)	Isopropylbenzene	11.134	105	1193462	26.81	ug/L		100
80)	cis-1,4-Dichloro-2-butene	11.481	53	30771	31.53	ug/L		92
81)	n-Propylbenzene	11.555	91	1507234	27.20	ug/L		98
82)	Bromobenzene	11.561	156	262107	23.31	ug/L		99
83)	1,1,2,2-Tetrachloroethane	11.616	83	321268	26.30	ug/L		100
84)	1,3,5-Trimethylbenzene	11.744	105	937005	24.45	ug/L		99
85)	2-Chlorotoluene	11.737	91	991606	26.53	ug/L		98
86)	trans-1,4-Dichloro-2-B...	11.798	53	44032	35.34	ug/L		87
87)	1,2,3-Trichloropropane	11.768	110	83904	26.06	ug/L		93
88)	Cyclohexanone	11.829	55	57339	134.51	ug/L		91
89)	4-Chlorotoluene	11.902	91	920910	26.69	ug/L		99
90)	tert-Butylbenzene	12.079	91	612323	26.88	ug/L		95

SGS ACCUTEST FA39742

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\122216\
Data File : I44367.D
Acq On : 22 Dec 2016 11:23 am
Operator : WILFREDO
Sample : IC1214-4 Inst : MSVOA16
Misc : MS35881,VI1214,,,,,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Dec 22 13:42:14 2016
Quant Method : C:\msdchem\2\METHODS\I-DEC22.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon Nov 28 10:18:42 2016
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
91)	a-Methyl styrene	12.006	118	530231	27.88	ug/L	98
92)	1,2,4-Trimethylbenzene	12.146	105	943443	24.93	ug/L	98
93)	Pentachloroethane	12.122	167	128698	27.34	ug/L	95
94)	sec-Butylbenzene	12.262	105	1316335	26.92	ug/L	99
95)	4-Isopropyltoluene	12.402	119	950040	24.16	ug/L	99
96)	1,3-Dichlorobenzene	12.518	146	538497	26.19	ug/L	98
97)	1,4-Dichlorobenzene	12.603	146	565300	25.83	ug/L	96
98)	n-Butylbenzene	12.841	92	600940	25.16	ug/L	99
99)	Benzyl Chloride	12.847	126	89367	28.38	ug/L #	85
100)	1,2-Dichlorobenzene	13.048	146	506977	25.49	ug/L	98
101)	1,2-Dibromo-3-Chloropr...	13.835	75	40489	25.48	ug/L	95
102)	Hexachlorobutadiene	14.414	225	131687	23.32	ug/L	95
103)	1,2,4-Trichlorobenzene	14.450	180	292774	22.28	ug/L	98
104)	Naphthalene	14.731	128	647839	23.04	ug/L	99
105)	1,2,3-Trichlorobenzene	14.889	180	265140	22.26	ug/L	99
107)	Ethanol	3.721	45	62891m	526.98	ug/L	
108)	Acrolein	4.172	56	248253	140.22	ug/L	99
109)	Tert Butyl Alcohol	4.769	59	236015	258.27	ug/L	87
110)	Isobutyl alcohol	6.842	43	237452	649.10	ug/L	98
111)	Tert Amyl Alcohol	6.952	59	193360	276.53	ug/L	91
112)	1,4-Dioxane	8.049	88	44230	532.42	ug/L	90
113)	3,3-Dimethyl-1-butanol	9.842	57	1097314	1404.85	ug/L	98

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

7.6.4

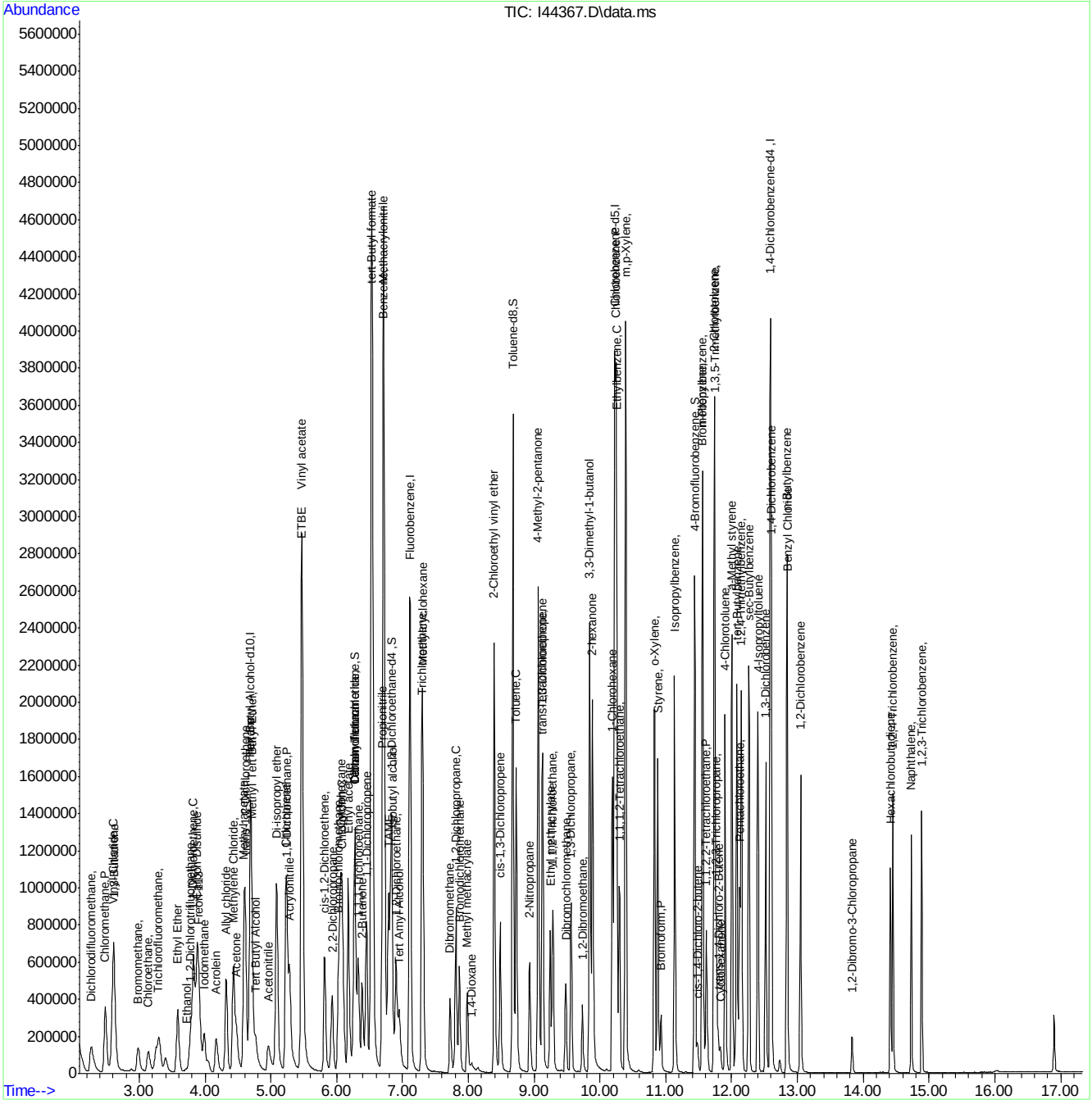
7

SGS ACCUTEST FA39742

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\122216\
Data File : I44367.D
Acq On : 22 Dec 2016 11:23 am
Operator : WILFREDO
Sample : IC1214-4 Inst : MSVOA16
Misc : MS35881,VI1214,,,,,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Dec 22 13:42:14 2016
Quant Method : C:\msdchem\2\METHODS\I-DEC22.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon Nov 28 10:18:42 2016
Response via : Initial Calibration



SGS ACCUTEST FA39742

Manual Integration Approval Summary

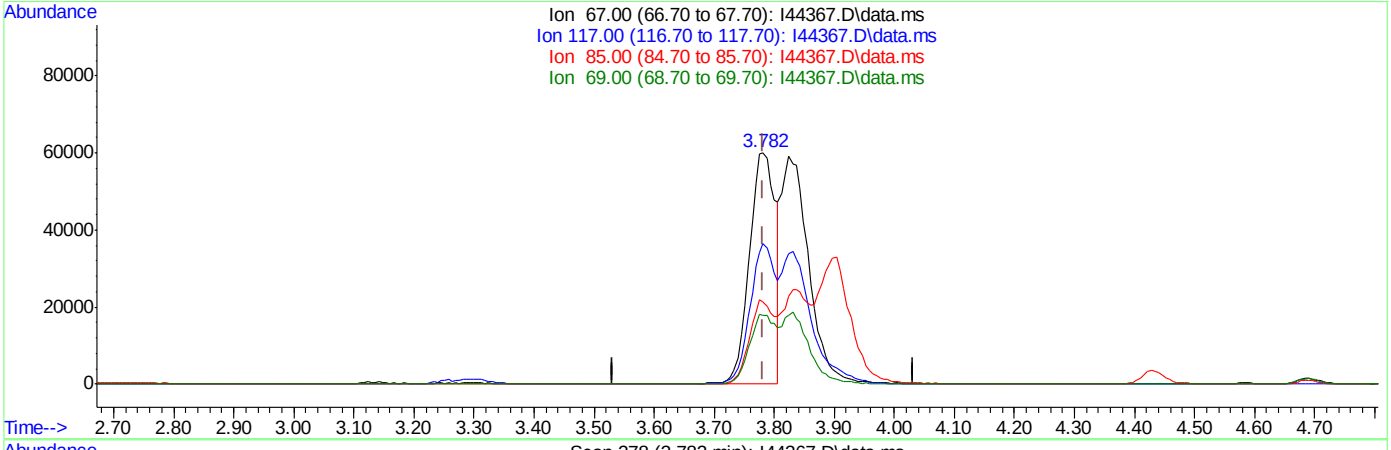
Sample Number:	VI1214-IC1214	**Method:**	SW846 8260B
Lab FileID:	I44367.D	**Analyst approved:**	12/23/16 14:46 Wilfredo Vazquez
Injection Time:	12/22/16 11:23	**Supervisor approved:**	12/23/16 14:50 Juan Garcia

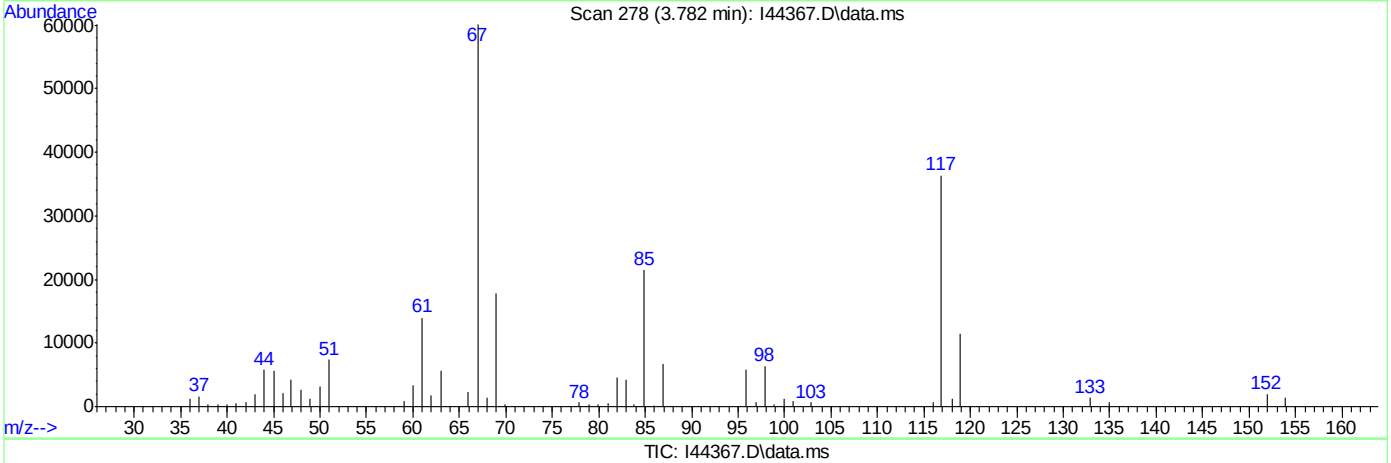
Parameter	CAS	Sig#	R.T. (min.)	Reason
Ethyl Alcohol	64-17-5		3.72	Poor instrument integration
1,2-Dichlorotrifluoroethane	354-23-4		3.78	Split peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\DATA\122216\
Data File : I44367.D
Acq On : 22 Dec 2016 11:23 am
Operator : WILFREDO
Sample : IC1214-4 Inst : MSVOA16
Misc : MS35881,VI1214,,,,,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Dec 22 12:42:20 2016
Quant Method : C:\msdchem\2\METHODS\I-DEC22.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon Nov 28 10:18:42 2016
Response via : Initial Calibration





TIC: I44367.D\data.ms

(10) 1,2-Dichlorotrifluoroethane

3.782min (+0.000) 14.02ug/L

response 182823

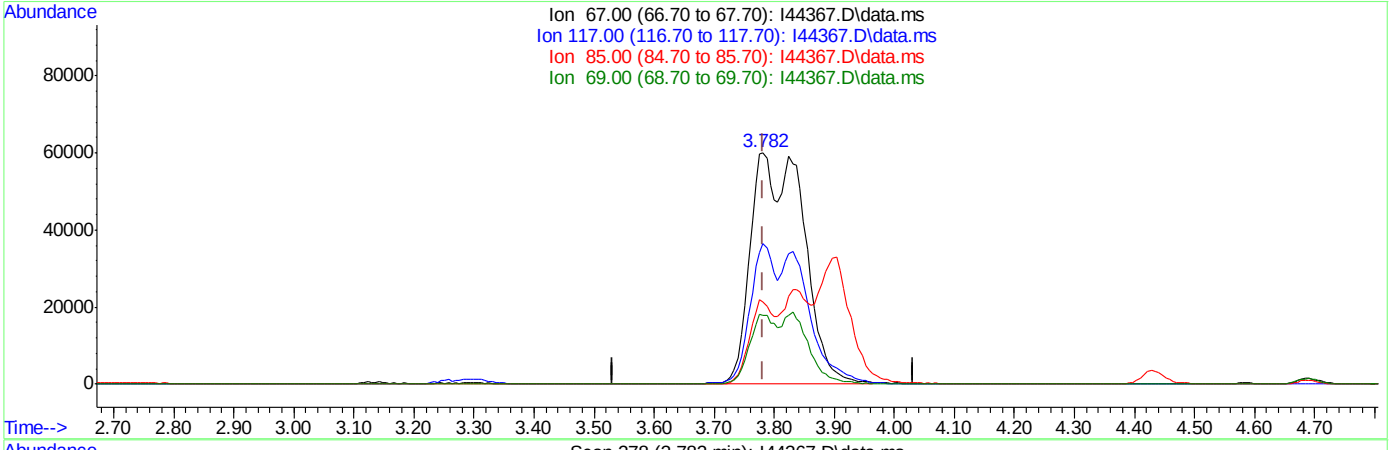
Ion	Exp%	Act%
67.00	100	100
117.00	64.40	60.55
85.00	38.00	35.67
69.00	32.20	29.76

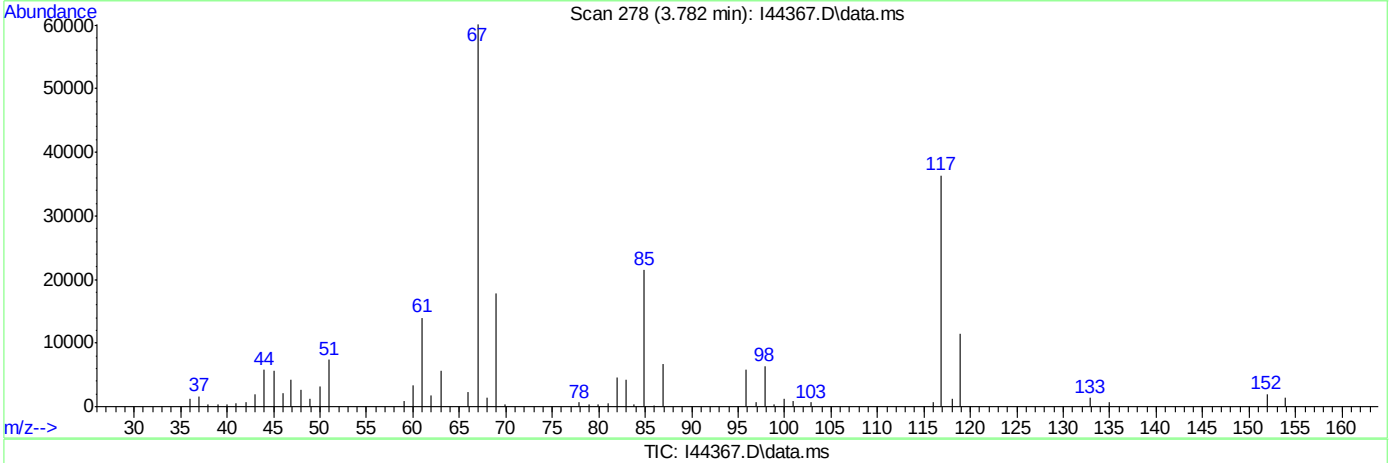
SGS ACCUTEST FA39742

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\DATA\122216\
Data File : I44367.D
Acq On : 22 Dec 2016 11:23 am
Operator : WILFREDO
Sample : IC1214-4 Inst : MSVOA16
Misc : MS35881,VI1214,,,,,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Dec 22 12:42:20 2016
Quant Method : C:\msdchem\2\METHODS\I-DEC22.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon Nov 28 10:18:42 2016
Response via : Initial Calibration





TIC: I44367.D\data.ms

(10) 1,2-Dichlorotrifluoroethane

3.782min (+0.000) 28.21ug/L m

response 367748

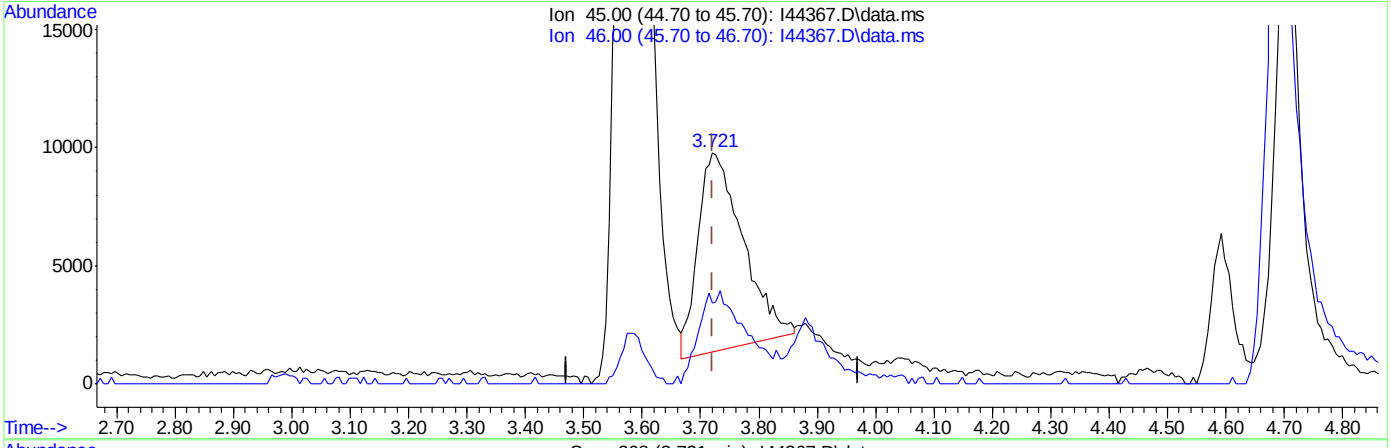
Ion	Exp%	Act%
67.00	100	100
117.00	64.40	60.55
85.00	38.00	35.67
69.00	32.20	29.76

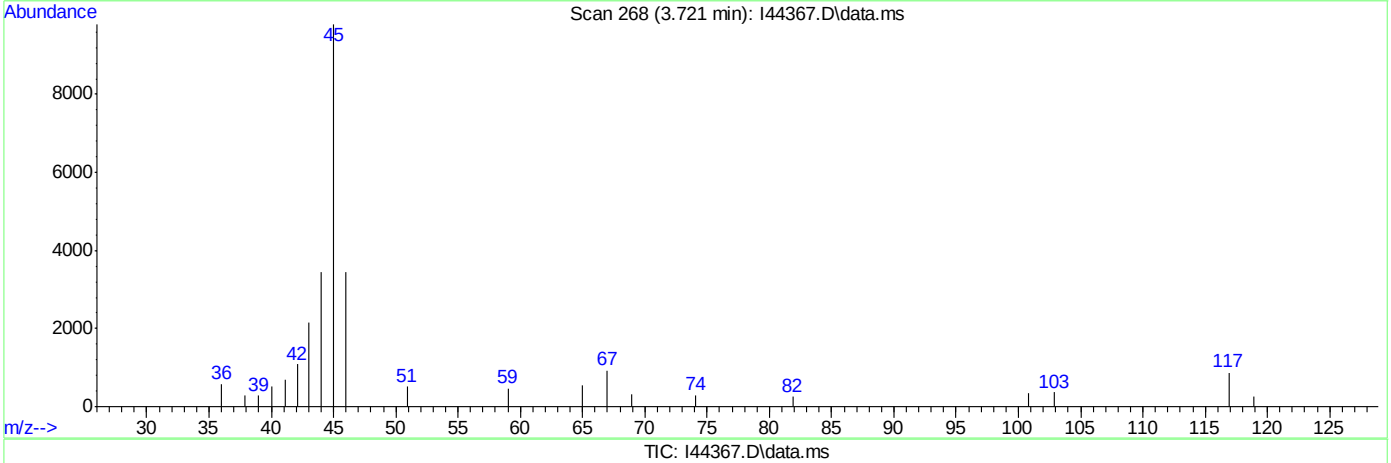
SGS ACCUTEST FA39742

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\DATA\122216\
Data File : I44367.D
Acq On : 22 Dec 2016 11:23 am
Operator : WILFREDO
Sample : IC1214-4 Inst : MSVOA16
Misc : MS35881,VI1214,,,,,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Dec 22 12:42:20 2016
Quant Method : C:\msdchem\2\METHODS\I-DEC22.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon Nov 28 10:18:42 2016
Response via : Initial Calibration





TIC: I44367.D\data.ms

(107) Ethanol

3.721min (-0.000) 376.70ug/L

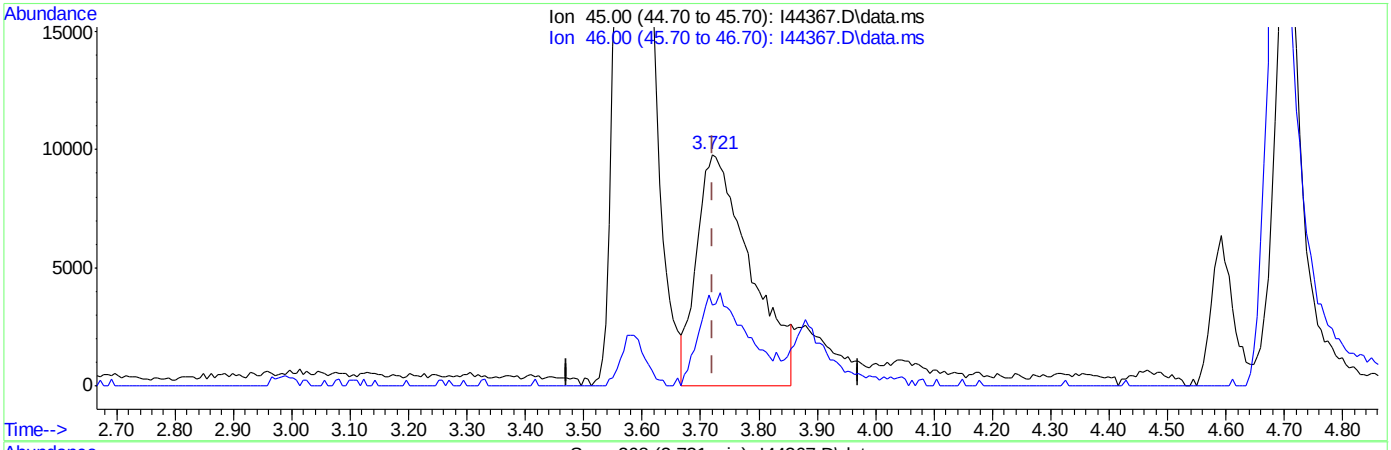
response 44957

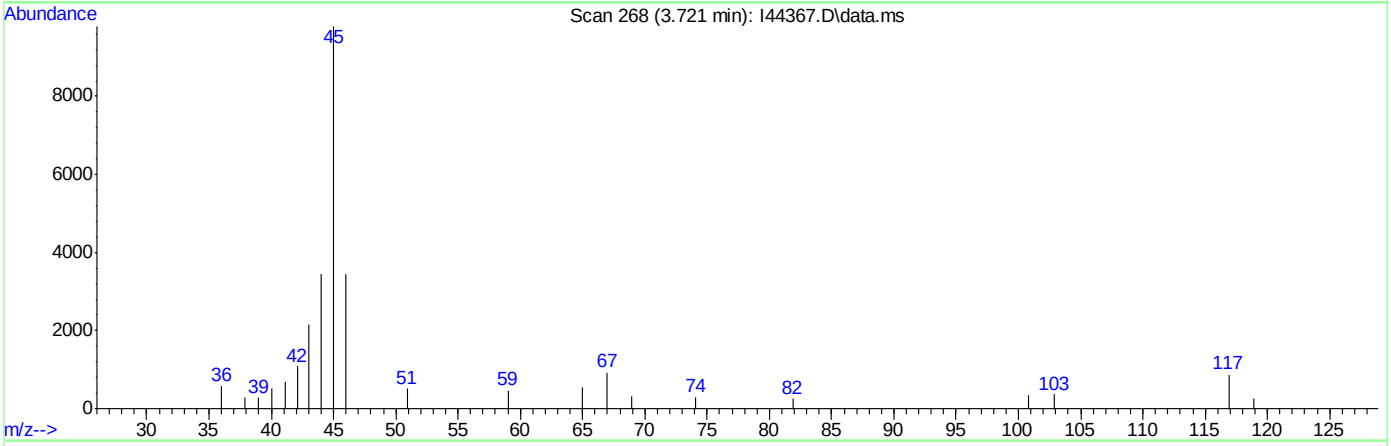
Ion	Exp%	Act%
45.00	100	100
46.00	39.10	45.13
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\DATA\122216\
Data File : I44367.D
Acq On : 22 Dec 2016 11:23 am
Operator : WILFREDO
Sample : IC1214-4 Inst : MSVOA16
Misc : MS35881,VI1214,,,,,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Dec 22 12:42:20 2016
Quant Method : C:\msdchem\2\METHODS\I-DEC22.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon Nov 28 10:18:42 2016
Response via : Initial Calibration





TIC: I44367.D\data.ms

(107) Ethanol

3.721min (-0.000) 526.98ug/L m

response 62891

Ion	Exp%	Act%
45.00	100	100
46.00	39.10	35.13
0.00	0.00	0.00
0.00	0.00	0.00

SGS ACCUTEST FA39742

Manual Integrations APPROVED (compounds with "m" flag)
Juan Garcia
12/23/16 14:50

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\122216\
Data File : I44368.D
Acq On : 22 Dec 2016 11:46 am
Operator : WILFREDO
Sample : ICC1214-5 Inst : MSVOA16
Misc : MS35881,VI1214,,,,,
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Dec 22 13:42:51 2016
Quant Method : C:\msdchem\2\METHODS\I-DEC22.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon Nov 28 10:18:42 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.116	96	2226204	50.00	ug/L	0.00
56) Chlorobenzene-d5	10.225	117	1551209	50.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	12.591	152	733696	50.00	ug/L	0.00
106) Tert Butyl Alcohol-d10	4.696	65	205166	250.00	ug/L	0.00
System Monitoring Compounds						
36) Dibromofluoromethane	6.275	113	572399	51.59	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 103.18%			
46) 1,2-Dichloroethane-d4	6.830	65	781578	53.10	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 106.20%			
57) Toluene-d8	8.677	98	2078969	48.47	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 96.94%			
79) 4-Bromofluorobenzene	11.439	174	532739	48.93	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 97.86%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.270	85	608775	37.75	ug/L	98
3) Chloromethane	2.483	50	879629	45.55	ug/L	100
4) 1,3-Butadiene	2.611	39	613363	44.83	ug/L	100
5) Vinyl Chloride	2.605	62	686295	45.76	ug/L	100
6) Bromomethane	2.977	94	190843	38.67	ug/L	99
7) Chloroethane	3.135	64	243408	42.20	ug/L	98
8) Trichlorofluoromethane	3.294	101	686910	47.87	ug/L	98
9) Ethyl Ether	3.586	59	534112	47.08	ug/L	94
10) 1,2-Dichlorotrifluoroe...	3.782	67	599360m	45.32	ug/L	
11) 1,1-Dichloroethene	3.824	61	863496	45.84	ug/L	97
12) Freon 113	3.897	101	486780	45.83	ug/L	99
13) Carbon Disulfide	3.879	76	1554259	46.70	ug/L	96
14) Iodomethane	3.989	142	674485	41.39	ug/L	99
15) Allyl chloride	4.324	41	765084	54.20	ug/L	98
16) Methylene Chloride	4.434	49	844548	45.67	ug/L	95
17) Acetone	4.470	43	648805	204.72	ug/L	97
18) Methyl acetate	4.592	43	1870014	248.32	ug/L	97
19) trans-1,2-Dichloroethene	4.611	61	813206	47.80	ug/L	96
20) Hexane	4.690	56	637321	47.34	ug/L	97
21) Methyl Tert Butyl Ether	4.708	73	1264379	43.27	ug/L	95
22) Acetonitrile	4.958	41	437506	440.36	ug/L	100
23) Di-isopropyl ether	5.086	45	2017403	47.22	ug/L	97
24) Chloroprene	5.232	53	971412	46.59	ug/L	98
25) 1,1-Dichloroethane	5.251	63	969400	44.17	ug/L	100
26) Acrylonitrile	5.281	53	1005786	219.98	ug/L	99
27) ETBE	5.470	59	1800734	45.64	ug/L	98
28) Vinyl acetate	5.470	43	6439803	252.58	ug/L	99
29) cis-1,2-Dichloroethene	5.818	96	480779	39.12	ug/L	96
30) 2,2-Dichloropropane	5.934	77	485848	45.28	ug/L	100
31) Bromochloromethane	6.025	128	228676	42.19	ug/L #	88
32) Cyclohexane	6.062	56	1112896	47.54	ug/L	96
33) Chloroform	6.086	83	886937	42.69	ug/L	98
34) Ethyl acetate	6.171	43	2558943	248.42	ug/L	100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\122216\
Data File : I44368.D
Acq On : 22 Dec 2016 11:46 am
Operator : WILFREDO
Sample : ICC1214-5 Inst : MSVOA16
Misc : MS35881,VI1214,,,,,
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Dec 22 13:42:51 2016
Quant Method : C:\msdchem\2\METHODS\I-DEC22.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon Nov 28 10:18:42 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
35) Tetrahydrofuran	6.269	42	138051	46.08 ug/L	95
37) Carbon Tetrachloride	6.269	117	576249	46.40 ug/L	98
38) 1,1,1-Trichloroethane	6.330	97	731203	43.96 ug/L	97
39) 2-Butanone	6.385	43	1033452	237.22 ug/L	96
40) 1,1-Dichloropropene	6.452	75	665497	43.18 ug/L	96
41) tert-Butyl formate	6.537	59	3808976	476.51 ug/L	98
42) Propionitrile	6.690	54	751364	451.13 ug/L	78
43) Methacrylonitrile	6.714	41	3056632	468.20 ug/L	99
44) Benzene	6.708	78	1728965	39.85 ug/L	84
45) TAME	6.793	73	1244140	43.34 ug/L	94
47) 1,2-Dichloroethane	6.903	62	730555	42.20 ug/L	97
48) Trichloroethene	7.293	95	495339	41.75 ug/L	97
49) Methylcyclohexane	7.305	83	887973	45.48 ug/L	96
50) Dibromomethane	7.720	93	286547	42.54 ug/L	95
51) 1,2-Dichloropropane	7.811	63	546175	43.66 ug/L	98
52) Bromodichloromethane	7.866	83	589612	44.73 ug/L	99
53) Methyl methacrylate	7.982	41	394629	47.05 ug/L	93
54) 2-Chloroethyl vinyl ether	8.396	63	1617153	238.78 ug/L	97
55) cis-1,3-Dichloropropene	8.482	75	717214	48.68 ug/L	95
58) Toluene	8.726	91	1734921	37.52 ug/L	99
59) 2-Nitropropane	8.933	41	559227	243.80 ug/L	99
60) 4-Methyl-2-pentanone	9.061	43	2564158	243.83 ug/L	98
61) trans-1,3-Dichloropropene	9.122	75	609101	49.33 ug/L	96
62) Tetrachloroethene	9.128	166	459796	41.86 ug/L	99
63) Ethyl methacrylate	9.244	69	559710	44.37 ug/L	93
64) 1,1,2-Trichloroethane	9.280	83	343187	40.84 ug/L	97
65) Dibromochloromethane	9.482	129	388855	45.11 ug/L	98
66) 1,3-Dichloropropane	9.561	76	724001	40.61 ug/L	93
67) 1,2-Dibromoethane	9.732	107	377990	40.47 ug/L	99
68) 2-hexanone	9.884	43	1822534	264.85 ug/L	97
69) 1-Chlorohexane	10.189	91	683706	43.67 ug/L	93
70) Ethylbenzene	10.250	91	1979827	38.42 ug/L	99
71) Chlorobenzene	10.244	112	1226132	41.17 ug/L	98
72) 1,1,1,2-Tetrachloroethane	10.299	131	383210	40.93 ug/L	99
73) m,p-Xylene	10.390	91	3135419	80.65 ug/L	99
74) o-Xylene	10.829	91	1643587	41.43 ug/L	100
75) Styrene	10.878	104	1144801	40.56 ug/L	98
76) Bromoform	10.927	173	189470	49.08 ug/L	98
77) Isopropylbenzene	11.134	105	1943478	41.41 ug/L	99
80) cis-1,4-Dichloro-2-butene	11.481	53	55014	55.47 ug/L	97
81) n-Propylbenzene	11.554	91	2465409	43.77 ug/L	99
82) Bromobenzene	11.561	156	430462	37.67 ug/L	99
83) 1,1,2,2-Tetrachloroethane	11.615	83	537053	43.26 ug/L	100
84) 1,3,5-Trimethylbenzene	11.743	105	1571892	40.35 ug/L	99
85) 2-Chlorotoluene	11.737	91	1636096	43.08 ug/L	99
86) trans-1,4-Dichloro-2-B...	11.798	53	80948	63.92 ug/L	95
87) 1,2,3-Trichloropropane	11.768	110	138700	42.39 ug/L	94
88) Cyclohexanone	11.829	55	103948	239.93 ug/L	96
89) 4-Chlorotoluene	11.902	91	1499968	42.78 ug/L	99
90) tert-Butylbenzene	12.079	91	1019363	44.03 ug/L	96

SGS ACCUTEST FA39742

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\122216\
Data File : I44368.D
Acq On : 22 Dec 2016 11:46 am
Operator : WILFREDO
Sample : ICC1214-5 Inst : MSVOA16
Misc : MS35881,VI1214,,,,,
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Dec 22 13:42:51 2016
Quant Method : C:\msdchem\2\METHODS\I-DEC22.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon Nov 28 10:18:42 2016
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
91)	a-Methyl styrene	12.006	118	880818	45.58	ug/L		99
92)	1,2,4-Trimethylbenzene	12.146	105	1535768	39.92	ug/L		98
93)	Pentachloroethane	12.121	167	206819	43.23	ug/L		98
94)	sec-Butylbenzene	12.262	105	2146285	43.19	ug/L		98
95)	4-Isopropyltoluene	12.402	119	1609183	40.26	ug/L		100
96)	1,3-Dichlorobenzene	12.518	146	872969	41.77	ug/L		98
97)	1,4-Dichlorobenzene	12.603	146	896242	40.29	ug/L		97
98)	n-Butylbenzene	12.841	92	1013247	41.73	ug/L		96
99)	Benzyl Chloride	12.847	126	166153	51.91	ug/L	#	93
100)	1,2-Dichlorobenzene	13.048	146	857637	42.42	ug/L		99
101)	1,2-Dibromo-3-Chloropr...	13.828	75	74638	46.22	ug/L		93
102)	Hexachlorobutadiene	14.414	225	223006	38.86	ug/L		99
103)	1,2,4-Trichlorobenzene	14.450	180	497610	37.26	ug/L		98
104)	Naphthalene	14.731	128	1142484	39.98	ug/L		100
105)	1,2,3-Trichlorobenzene	14.889	180	470960	38.90	ug/L		100
107)	Ethanol	3.727	45	95368m	742.67	ug/L		
108)	Acrolein	4.172	56	431986	226.77	ug/L		99
109)	Tert Butyl Alcohol	4.769	59	397117	403.87	ug/L		91
110)	Isobutyl alcohol	6.842	43	388379	986.69	ug/L		97
111)	Tert Amyl Alcohol	6.952	59	353037	469.24	ug/L		97
112)	1,4-Dioxane	8.049	88	73988	827.73	ug/L		93
113)	3,3-Dimethyl-1-butanol	9.841	57	1947246	2316.91	ug/L		98

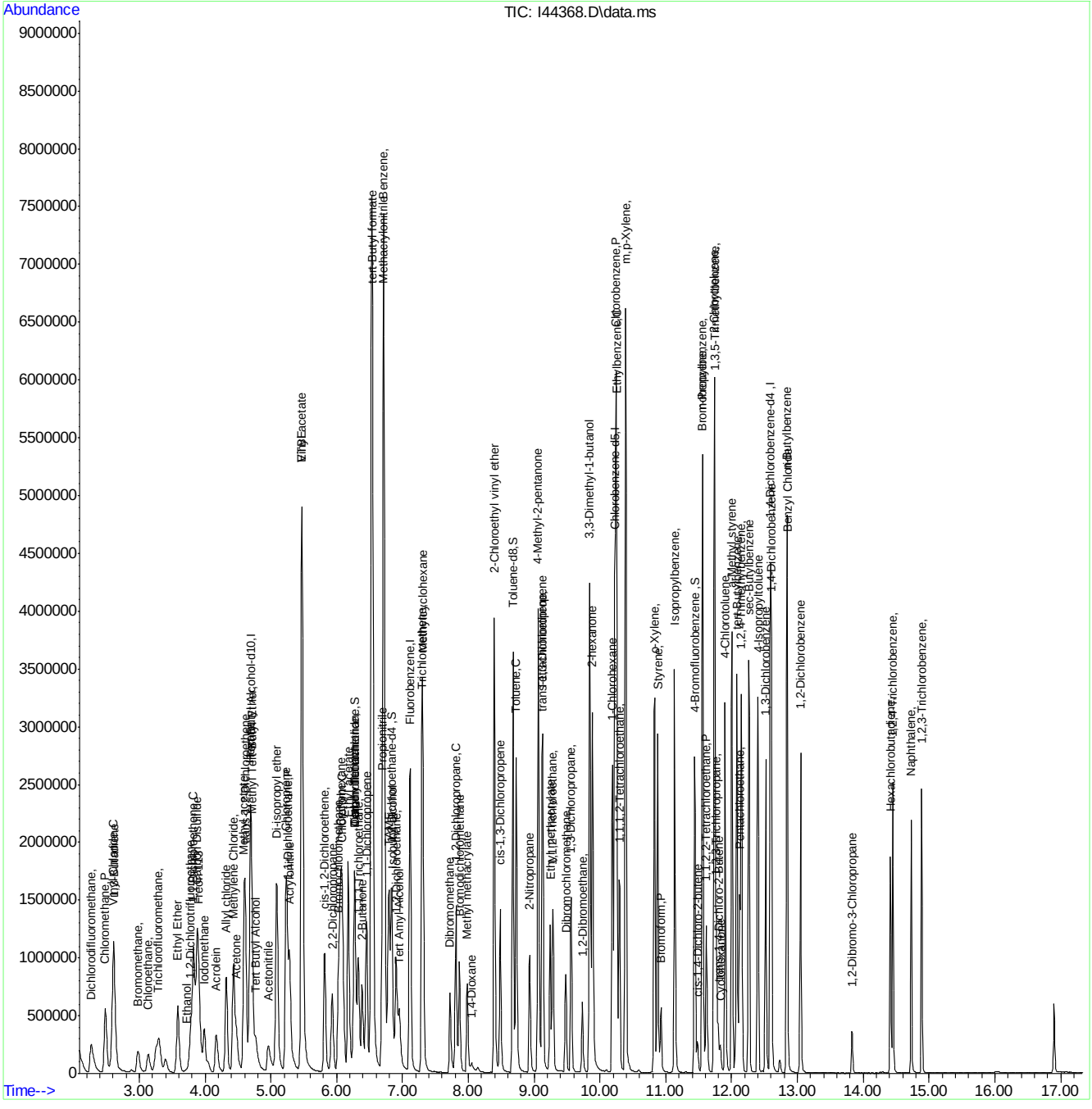
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST FA39742

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\122216\
Data File : I44368.D
Acq On : 22 Dec 2016 11:46 am
Operator : WILFREDO
Sample : ICC1214-5 Inst : MSVOA16
Misc : MS35881,VI1214,,,,,
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Dec 22 13:42:51 2016
Quant Method : C:\msdchem\2\METHODS\I-DEC22.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon Nov 28 10:18:42 2016
Response via : Initial Calibration



SGS ACCUTEST FA39742

Manual Integration Approval Summary

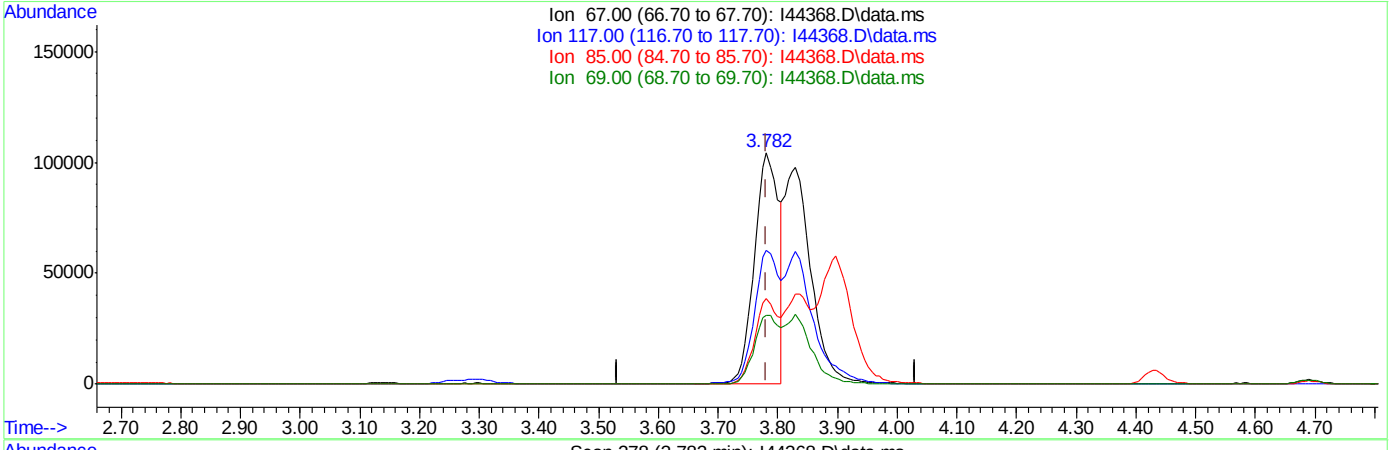
Sample Number:	VI1214-ICC1214	**Method:**	SW846 8260B
Lab FileID:	I44368.D	**Analyst approved:**	12/23/16 14:46 Wilfredo Vazquez
Injection Time:	12/22/16 11:46	**Supervisor approved:**	12/23/16 14:50 Juan Garcia

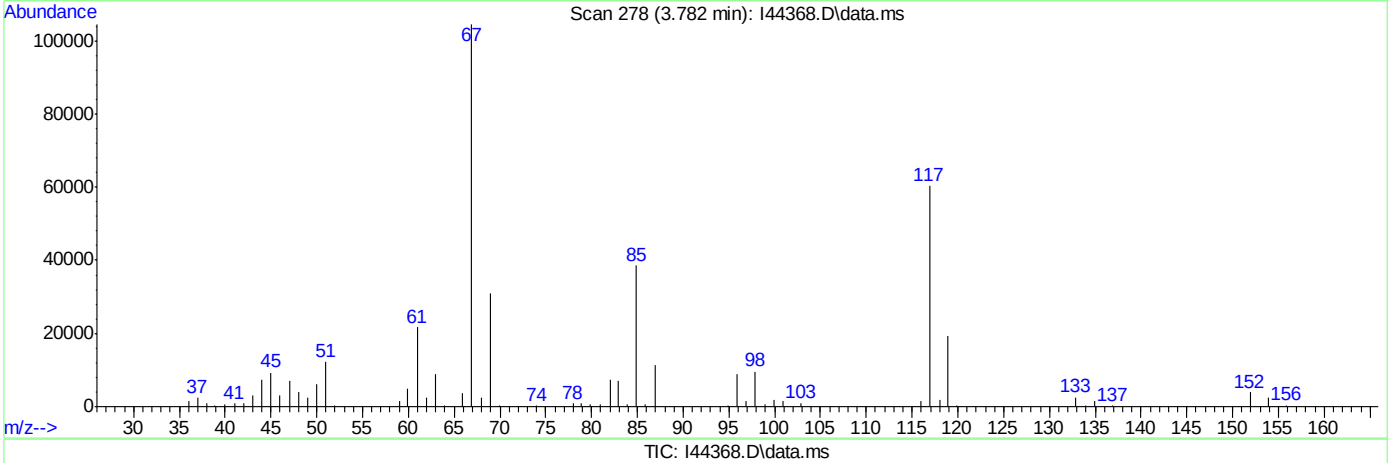
Parameter	CAS	Sig#	R.T. (min.)	Reason
Ethyl Alcohol	64-17-5		3.73	Poor instrument integration
1,2-Dichlorotrifluoroethane	354-23-4		3.78	Split peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\DATA\122216\
Data File : I44368.D
Acq On : 22 Dec 2016 11:46 am
Operator : WILFREDO
Sample : IC1214-5 Inst : MSVOA16
Misc : MS35881,VI1214,,,,,
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Dec 22 12:42:23 2016
Quant Method : C:\msdchem\2\METHODS\I-DEC22.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon Nov 28 10:18:42 2016
Response via : Initial Calibration





(10) 1,2-Dichlorotrifluoroethane

3.782min (+0.000) 22.83ug/L

response 301937

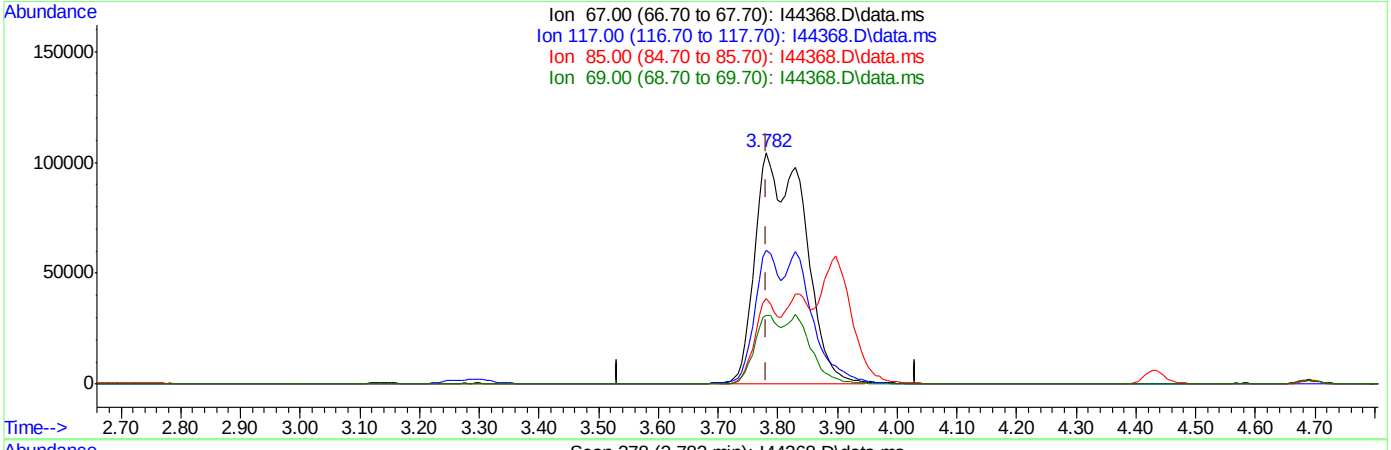
Ion	Exp%	Act%
67.00	100	100
117.00	64.40	57.74
85.00	38.00	36.85
69.00	32.20	29.65

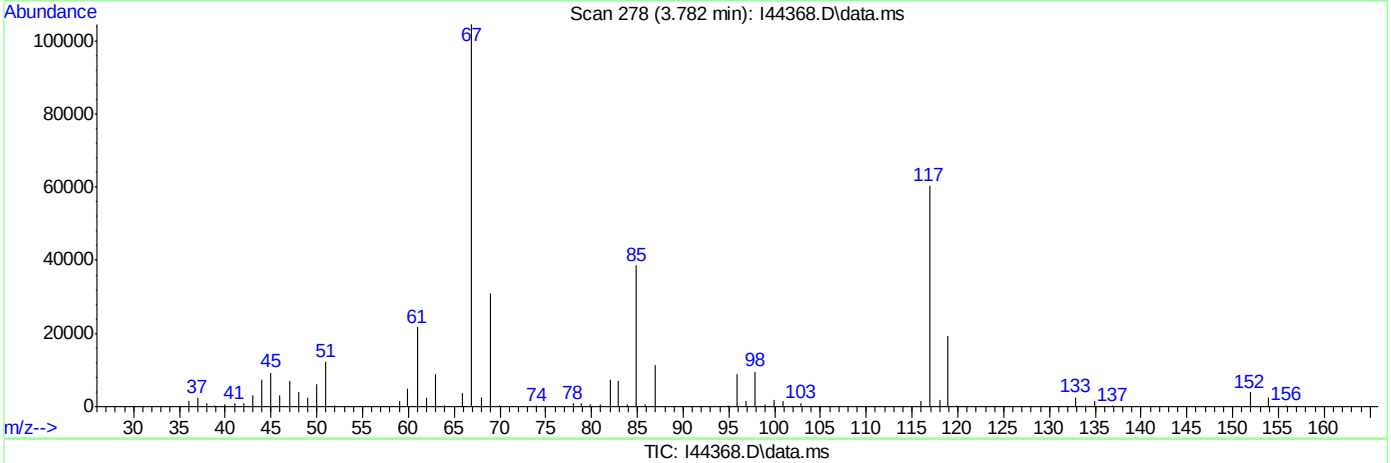
SGS ACCUTEST FA39742

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\DATA\122216\
Data File : I44368.D
Acq On : 22 Dec 2016 11:46 am
Operator : WILFREDO
Sample : IC1214-5 Inst : MSVOA16
Misc : MS35881,VI1214,,,,,
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Dec 22 12:42:23 2016
Quant Method : C:\msdchem\2\METHODS\I-DEC22.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon Nov 28 10:18:42 2016
Response via : Initial Calibration





(10) 1,2-Dichlorotrifluoroethane

3.782min (+0.000) 45.32ug/L m

response 599360

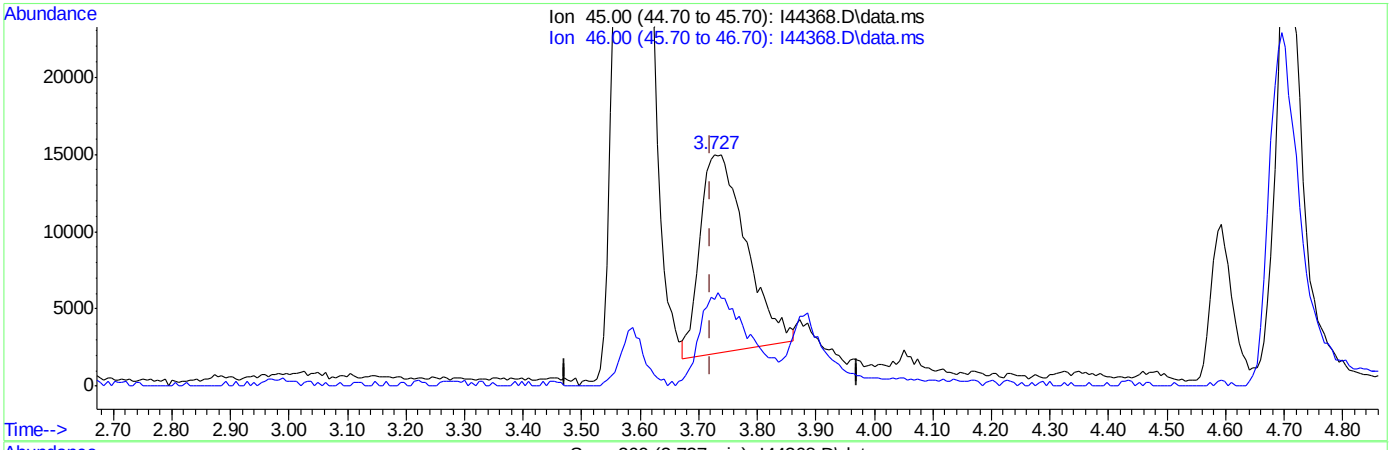
Ion	Exp%	Act%
67.00	100	100
117.00	64.40	57.74
85.00	38.00	36.85
69.00	32.20	29.65

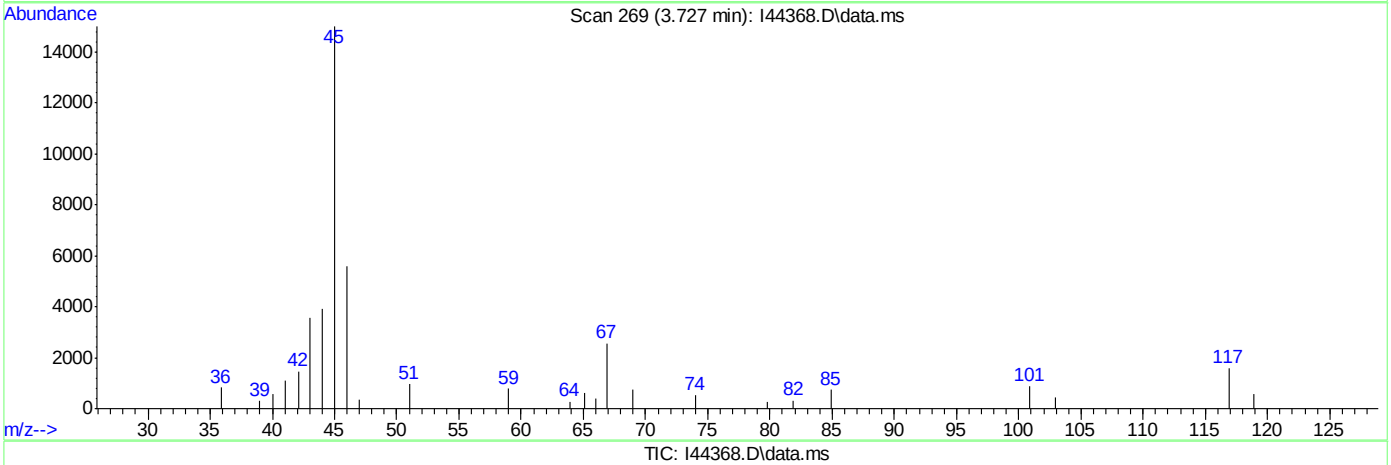
SGS ACCUTEST FA39742

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\DATA\122216\
Data File : I44368.D
Acq On : 22 Dec 2016 11:46 am
Operator : WILFREDO
Sample : IC1214-5 Inst : MSVOA16
Misc : MS35881,VI1214,,,,,
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Dec 22 12:42:23 2016
Quant Method : C:\msdchem\2\METHODS\I-DEC22.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon Nov 28 10:18:42 2016
Response via : Initial Calibration





TIC: I44368.D\data.ms

(107) Ethanol

3.727min (+0.006) 544.75ug/L

response 69952

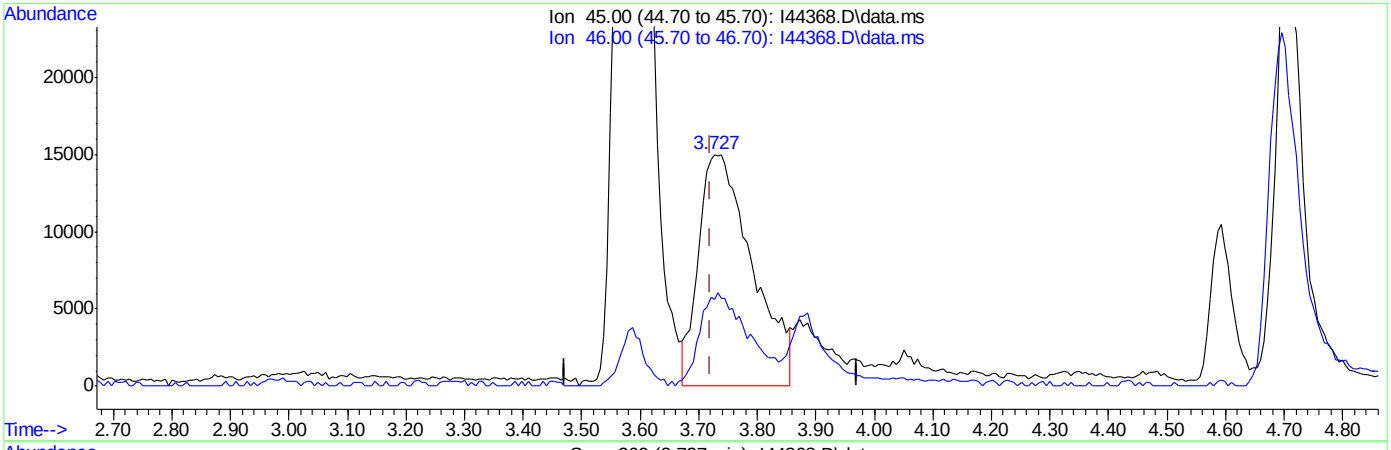
Ion	Exp%	Act%
45.00	100	100
46.00	39.10	43.48
0.00	0.00	0.00
0.00	0.00	0.00

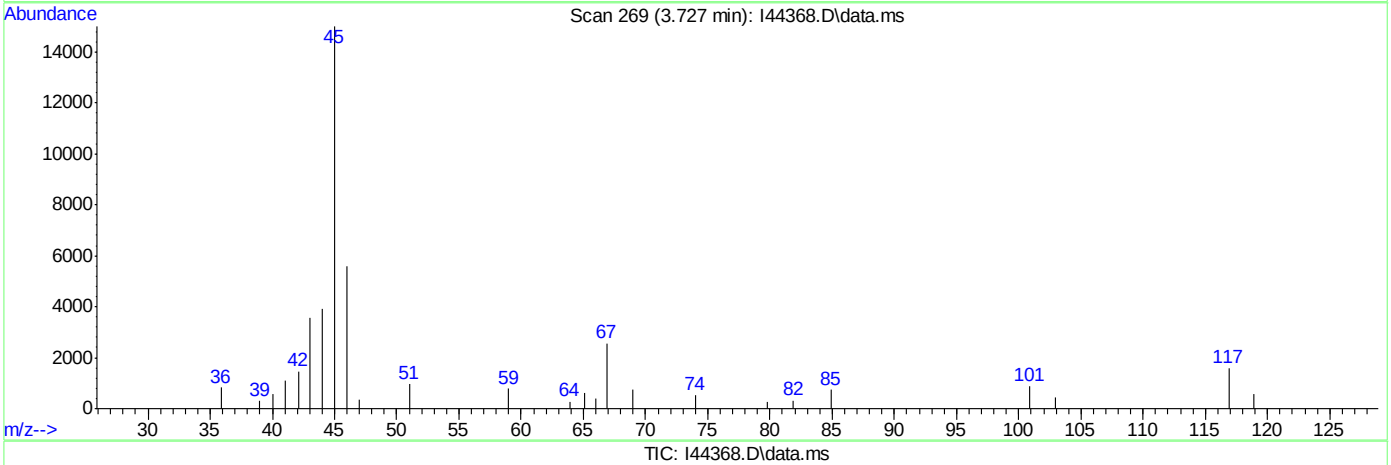
SGS ACCUTEST FA39742

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\DATA\122216\
Data File : I44368.D
Acq On : 22 Dec 2016 11:46 am
Operator : WILFREDO
Sample : IC1214-5 Inst : MSVOA16
Misc : MS35881,VI1214,,,,,
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Dec 22 12:42:23 2016
Quant Method : C:\msdchem\2\METHODS\I-DEC22.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon Nov 28 10:18:42 2016
Response via : Initial Calibration





TIC: I44368.D\data.ms

(107) Ethanol

3.727min (+0.006) 742.67ug/L m

response 95368

Ion	Exp%	Act%
45.00	100	100
46.00	39.10	37.36
0.00	0.00	0.00
0.00	0.00	0.00

SGS ACCUTEST FA39742

Manual Integrations APPROVED (compounds with "m" flag)
Juan Garcia
12/23/16 14:50

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\122216\
Data File : I44369.D
Acq On : 22 Dec 2016 12:10 pm
Operator : WILFREDO
Sample : IC1214-6 Inst : MSVOA16
Misc : MS35881,VI1214,,,,,
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Dec 22 13:43:27 2016
Quant Method : C:\msdchem\2\METHODS\I-DEC22.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon Nov 28 10:18:42 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.110	96	2342561	50.00	ug/L	0.00
56) Chlorobenzene-d5	10.226	117	1603904	50.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	12.591	152	751411	50.00	ug/L	0.00
106) Tert Butyl Alcohol-d10	4.696	65	239420	250.00	ug/L	0.00
System Monitoring Compounds						
36) Dibromofluoromethane	6.275	113	586280	50.22	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 100.44%			
46) 1,2-Dichloroethane-d4	6.830	65	798220	51.54	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 103.08%			
57) Toluene-d8	8.677	98	2173638	49.02	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 98.04%			
79) 4-Bromofluorobenzene	11.439	174	554209	49.71	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 99.42%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.264	85	1060669	62.50	ug/L	98
3) Chloromethane	2.483	50	1567809	77.16	ug/L	100
4) 1,3-Butadiene	2.611	39	1020293	70.86	ug/L	99
5) Vinyl Chloride	2.605	62	1236743	78.37	ug/L	100
6) Bromomethane	2.971	94	286182	55.10	ug/L	98
7) Chloroethane	3.129	64	303960	50.08	ug/L	97
8) Trichlorofluoromethane	3.288	101	1145696	75.88	ug/L	97
9) Ethyl Ether	3.587	59	971290	81.36	ug/L	97
10) 1,2-Dichlorotrifluoroe...	3.824	67	1089212m	78.27	ug/L	
11) 1,1-Dichloroethene	3.818	61	1598627	80.65	ug/L	98
12) Freon 113	3.891	101	840899	75.23	ug/L	100
13) Carbon Disulfide	3.873	76	2892215	82.59	ug/L	97
14) Iodomethane	3.983	142	1273659	74.28	ug/L	100
15) Allyl chloride	4.318	41	1459207	98.24	ug/L	99
16) Methylene Chloride	4.428	49	1527038	78.48	ug/L	96
17) Acetone	4.465	43	1198865	359.50	ug/L	97
18) Methyl acetate	4.586	43	3391909	428.04	ug/L	98
19) trans-1,2-Dichloroethene	4.605	61	1475838	82.45	ug/L	97
20) Hexane	4.684	56	1108316	78.23	ug/L	95
21) Methyl Tert Butyl Ether	4.702	73	2366278	76.96	ug/L	95
22) Acetonitrile	4.958	41	893995	855.13	ug/L	99
23) Di-isopropyl ether	5.086	45	3675577	81.76	ug/L	98
24) Chloroprene	5.227	53	1766205	80.50	ug/L	99
25) 1,1-Dichloroethane	5.245	63	1758460	76.14	ug/L	100
26) Acrylonitrile	5.281	53	1952359	405.80	ug/L	99
27) ETBE	5.470	59	3315825	79.86	ug/L	99
28) Vinyl acetate	5.470	43	11311087	421.61	ug/L	99
29) cis-1,2-Dichloroethene	5.812	96	911120	70.45	ug/L	96
30) 2,2-Dichloropropane	5.928	77	851902	75.45	ug/L	100
31) Bromochloromethane	6.025	128	429848	75.37	ug/L	95
32) Cyclohexane	6.056	56	1975014	80.17	ug/L	98
33) Chloroform	6.086	83	1637224	74.89	ug/L	99
34) Ethyl acetate	6.171	43	4621995	426.42	ug/L	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\122216\
Data File : I44369.D
Acq On : 22 Dec 2016 12:10 pm
Operator : WILFREDO
Sample : IC1214-6 Inst : MSVOA16
Misc : MS35881,VI1214,,,,,
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Dec 22 13:43:27 2016
Quant Method : C:\msdchem\2\METHODS\I-DEC22.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon Nov 28 10:18:42 2016
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
35)	Tetrahydrofuran	6.269	42	244401	77.53	ug/L		98
37)	Carbon Tetrachloride	6.263	117	1013309	77.54	ug/L		100
38)	1,1,1-Trichloroethane	6.324	97	1309054	74.80	ug/L		96
39)	2-Butanone	6.379	43	1897715	413.96	ug/L		97
40)	1,1-Dichloropropene	6.452	75	1221033	75.29	ug/L		98
41)	tert-Butyl formate	6.531	59	7141183	848.99	ug/L		96
42)	Propionitrile	6.690	54	1365903	779.37	ug/L	#	63
43)	Methacrylonitrile	6.714	41	5127547	746.40	ug/L		100
44)	Benzene	6.702	78	3132650	68.62	ug/L		94
45)	TAME	6.787	73	2303179	76.25	ug/L		98
47)	1,2-Dichloroethane	6.897	62	1311530	71.99	ug/L		98
48)	Trichloroethene	7.293	95	891555	71.41	ug/L		99
49)	Methylcyclohexane	7.305	83	1543246	75.12	ug/L		97
50)	Dibromomethane	7.720	93	538089	75.92	ug/L		99
51)	1,2-Dichloropropane	7.805	63	1018108	77.34	ug/L		98
52)	Bromodichloromethane	7.860	83	1140475	82.23	ug/L		99
53)	Methyl methacrylate	7.976	41	743379	84.24	ug/L		94
54)	2-Chloroethyl vinyl ether	8.391	63	2957140	414.95	ug/L		98
55)	cis-1,3-Dichloropropene	8.482	75	1376775	88.81	ug/L		97
58)	Toluene	8.726	91	3134165	65.55	ug/L		100
59)	2-Nitropropane	8.927	41	1042174	439.43	ug/L		99
60)	4-Methyl-2-pentanone	9.061	43	4494955	413.39	ug/L		99
61)	trans-1,3-Dichloropropene	9.116	75	1144120	89.62	ug/L		97
62)	Tetrachloroethene	9.128	166	847092	74.58	ug/L		97
63)	Ethyl methacrylate	9.238	69	1054159	80.82	ug/L		93
64)	1,1,2-Trichloroethane	9.281	83	626587	72.11	ug/L		98
65)	Dibromochloromethane	9.476	129	750944	84.26	ug/L		99
66)	1,3-Dichloropropane	9.561	76	1334827	72.40	ug/L		96
67)	1,2-Dibromoethane	9.732	107	703422	72.83	ug/L		100
68)	2-hexanone	9.884	43	3159703	444.08	ug/L		99
69)	1-Chlorohexane	10.189	91	1254318	77.48	ug/L		96
70)	Ethylbenzene	10.250	91	3574229	67.08	ug/L		100
71)	Chlorobenzene	10.244	112	2225382	72.27	ug/L		99
72)	1,1,1,2-Tetrachloroethane	10.293	131	706218	72.94	ug/L		99
73)	m,p-Xylene	10.390	91	5641799	140.35	ug/L		100
74)	o-Xylene	10.829	91	3031806	73.92	ug/L		99
75)	Styrene	10.878	104	2146360	73.55	ug/L		99
76)	Bromoform	10.927	173	378223	94.76	ug/L		99
77)	Isopropylbenzene	11.134	105	3572295	73.61	ug/L		99
80)	cis-1,4-Dichloro-2-butene	11.481	53	143507	141.28	ug/L		93
81)	n-Propylbenzene	11.555	91	4587075	79.52	ug/L		100
82)	Bromobenzene	11.561	156	812045	69.39	ug/L		100
83)	1,1,2,2-Tetrachloroethane	11.616	83	957363	75.29	ug/L		99
84)	1,3,5-Trimethylbenzene	11.744	105	2849703	71.43	ug/L		100
85)	2-Chlorotoluene	11.737	91	2959459	76.08	ug/L		99
86)	trans-1,4-Dichloro-2-B...	11.792	53	186995	144.17	ug/L		97
87)	1,2,3-Trichloropropane	11.768	110	246436	73.53	ug/L		98
88)	Cyclohexanone	11.829	55	206038	464.37	ug/L		98
89)	4-Chlorotoluene	11.902	91	2796092	77.86	ug/L		100
90)	tert-Butylbenzene	12.079	91	1815986	76.59	ug/L		98

SGS ACCUTEST FA39742

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\122216\
Data File : I44369.D
Acq On : 22 Dec 2016 12:10 pm
Operator : WILFREDO
Sample : IC1214-6 Inst : MSVOA16
Misc : MS35881,VI1214,,,,,
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Dec 22 13:43:27 2016
Quant Method : C:\msdchem\2\METHODS\I-DEC22.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon Nov 28 10:18:42 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
91) a-Methyl styrene	12.006	118	1656628	83.70	ug/L	100
92) 1,2,4-Trimethylbenzene	12.146	105	2763719	70.15	ug/L	100
93) Pentachloroethane	12.122	167	381518	77.87	ug/L	97
94) sec-Butylbenzene	12.262	105	3978857	78.17	ug/L	99
95) 4-Isopropyltoluene	12.402	119	2956741	72.24	ug/L	100
96) 1,3-Dichlorobenzene	12.518	146	1598519	74.68	ug/L	99
97) 1,4-Dichlorobenzene	12.603	146	1640269	72.01	ug/L	99
98) n-Butylbenzene	12.841	92	1848934	74.36	ug/L	95
99) Benzyl Chloride	12.847	126	323824	98.79	ug/L #	83
100) 1,2-Dichlorobenzene	13.048	146	1568828	75.77	ug/L	99
101) 1,2-Dibromo-3-Chloropr...	13.829	75	145491	87.98	ug/L	98
102) Hexachlorobutadiene	14.414	225	424655	72.25	ug/L	100
103) 1,2,4-Trichlorobenzene	14.450	180	989970	72.38	ug/L	99
104) Naphthalene	14.731	128	2184942	74.66	ug/L	100
105) 1,2,3-Trichlorobenzene	14.889	180	872902	70.41	ug/L	100
107) Ethanol	3.739	45	174474m	1164.31	ug/L	
108) Acrolein	4.166	56	826235	371.67	ug/L	99
109) Tert Butyl Alcohol	4.775	59	813209	708.71	ug/L	99
110) Isobutyl alcohol	6.842	43	730806	1591.01	ug/L	92
111) Tert Amyl Alcohol	6.952	59	707337	805.64	ug/L	98
112) 1,4-Dioxane	8.049	88	141533	1356.85	ug/L	97
113) 3,3-Dimethyl-1-butanol	9.841	57	4088533	4168.71	ug/L	99

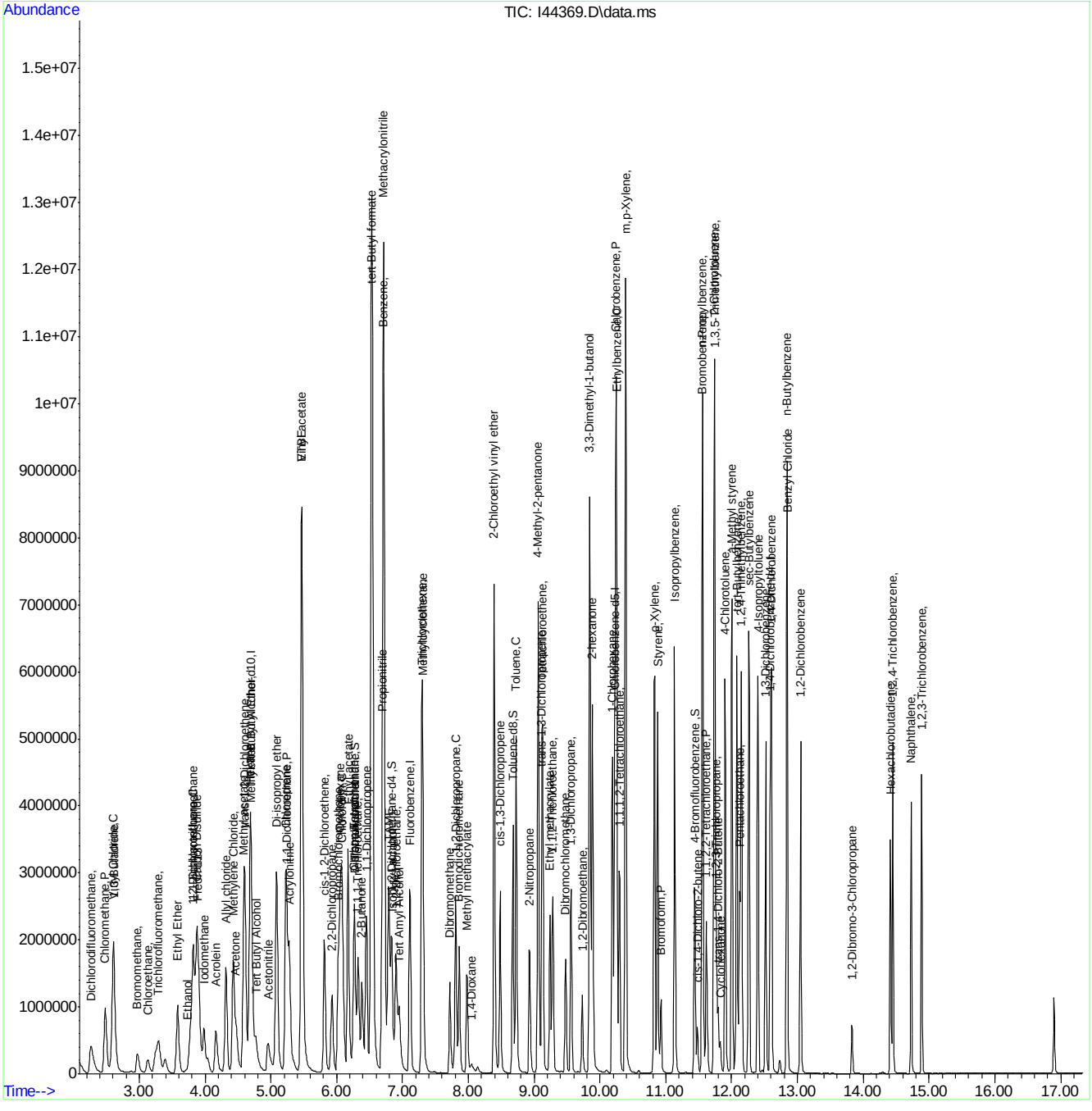
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST FA39742

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\122216\
Data File : I44369.D
Acq On : 22 Dec 2016 12:10 pm
Operator : WILFREDO
Sample : IC1214-6 Inst : MSVOA16
Misc : MS35881,VI1214,,,,,
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Dec 22 13:43:27 2016
Quant Method : C:\msdchem\2\METHODS\I-DEC22.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon Nov 28 10:18:42 2016
Response via : Initial Calibration



SGS ACCUTEST FA39742

Manual Integration Approval Summary

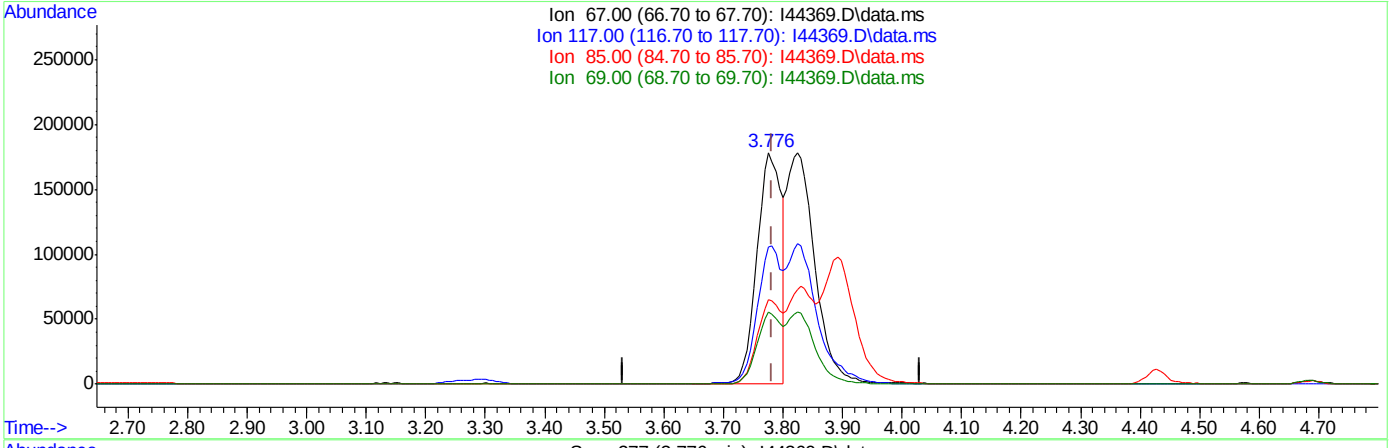
Sample Number:	VI1214-IC1214	**Method:**	SW846 8260B
Lab FileID:	I44369.D	**Analyst approved:**	12/23/16 14:46 Wilfredo Vazquez
Injection Time:	12/22/16 12:10	**Supervisor approved:**	12/23/16 14:50 Juan Garcia

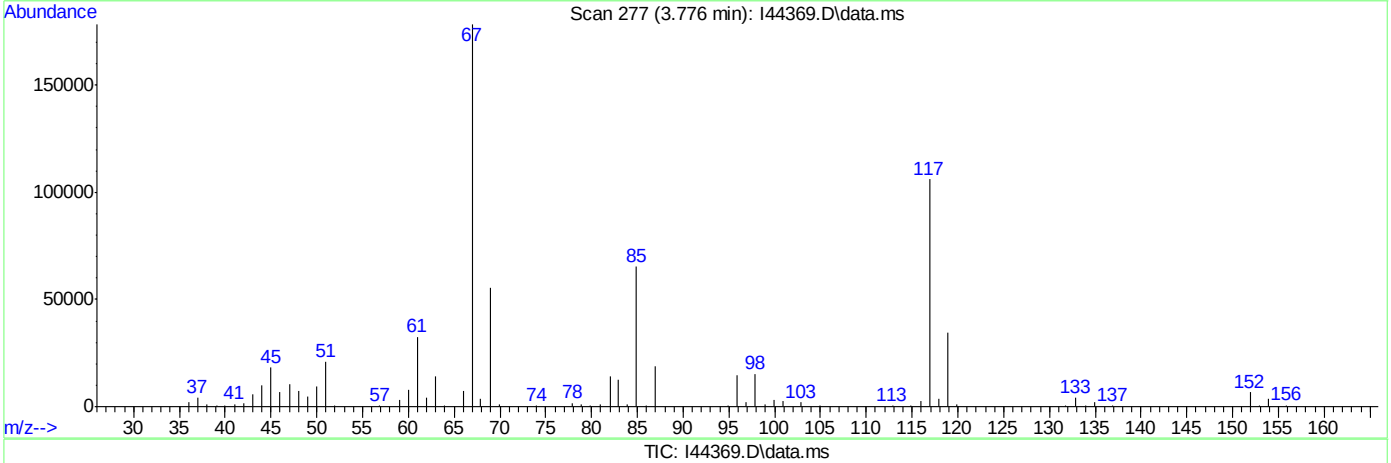
Parameter	CAS	Sig#	R.T. (min.)	Reason
Ethyl Alcohol	64-17-5		3.74	Poor instrument integration
1,2-Dichlorotrifluoroethane	354-23-4		3.82	Split peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\DATA\122216\
Data File : I44369.D
Acq On : 22 Dec 2016 12:10 pm
Operator : WILFREDO
Sample : IC1214-6 Inst : MSVOA16
Misc : MS35881,VI1214,,,,,
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Dec 22 12:42:26 2016
Quant Method : C:\msdchem\2\METHODS\I-DEC22.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon Nov 28 10:18:42 2016
Response via : Initial Calibration





TIC: I44369.D\data.ms

(10) 1,2-Dichlorotrifluoroethane

3.776min (-0.006) 36.45ug/L

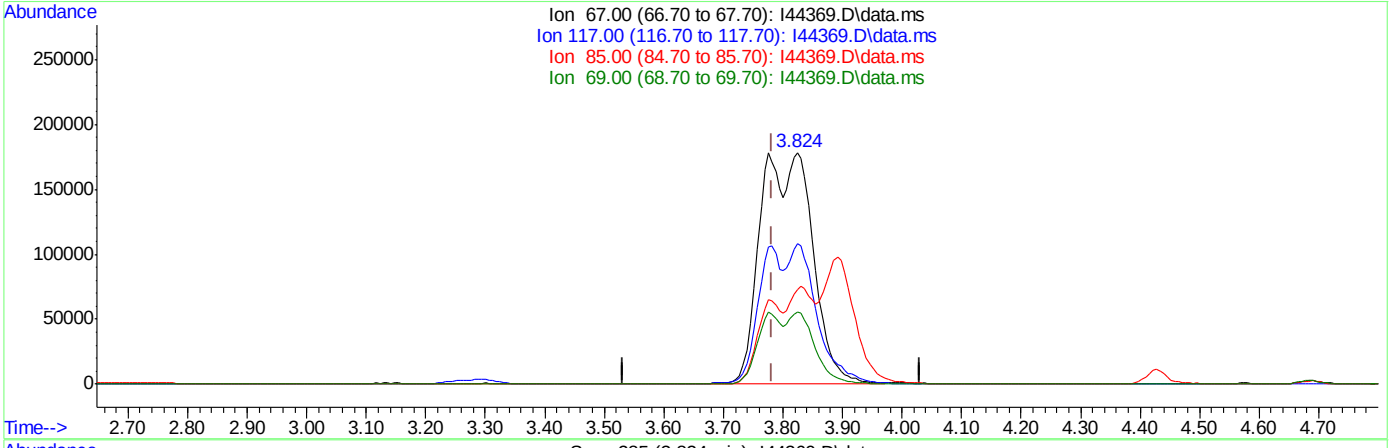
response 507162

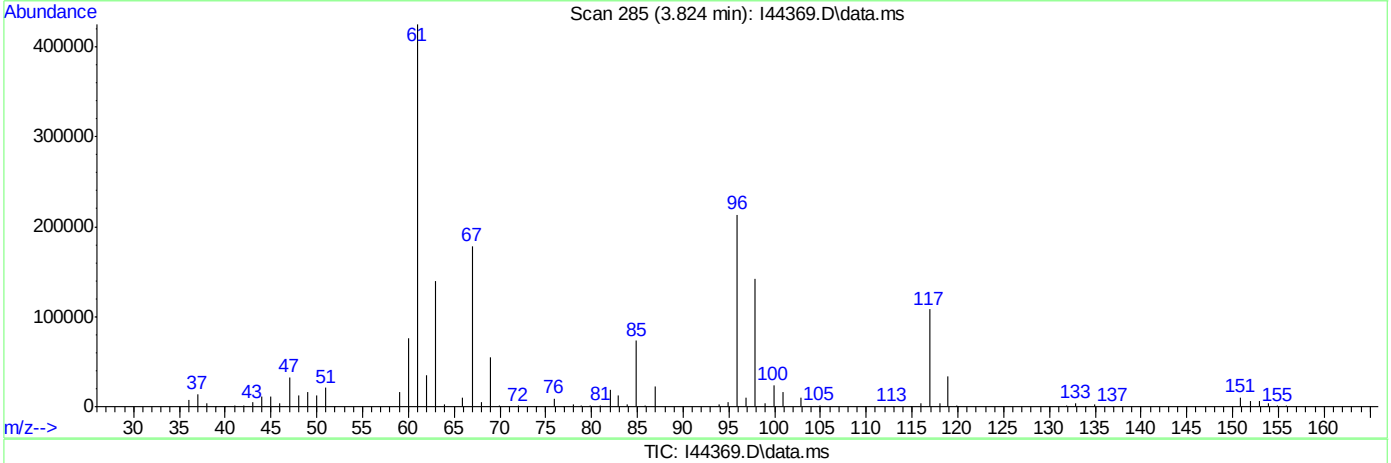
Ion	Exp%	Act%
67.00	100	100
117.00	64.40	59.54
85.00	38.00	36.62
69.00	32.20	31.06

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\DATA\122216\
Data File : I44369.D
Acq On : 22 Dec 2016 12:10 pm
Operator : WILFREDO
Sample : IC1214-6 Inst : MSVOA16
Misc : MS35881,VI1214,,,,,
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Dec 22 12:42:26 2016
Quant Method : C:\msdchem\2\METHODS\I-DEC22.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon Nov 28 10:18:42 2016
Response via : Initial Calibration





TIC: I44369.D\data.ms

(10) 1,2-Dichlorotrifluoroethane

3.824min (+0.043) 78.27ug/L m

response 1089212

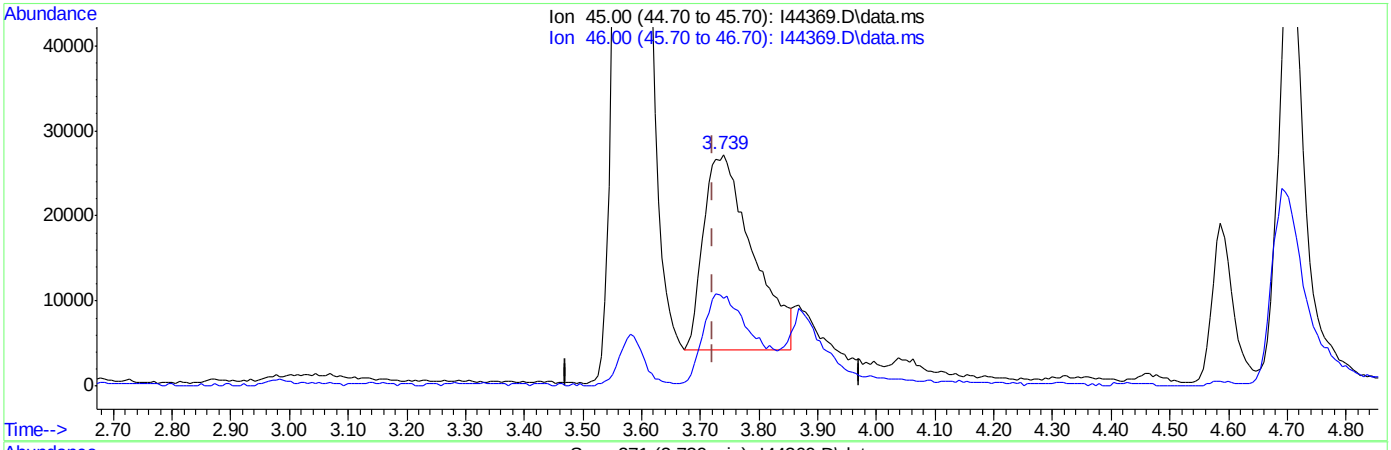
Ion	Exp%	Act%
67.00	100	100
117.00	64.40	60.70
85.00	38.00	41.03
69.00	32.20	31.04

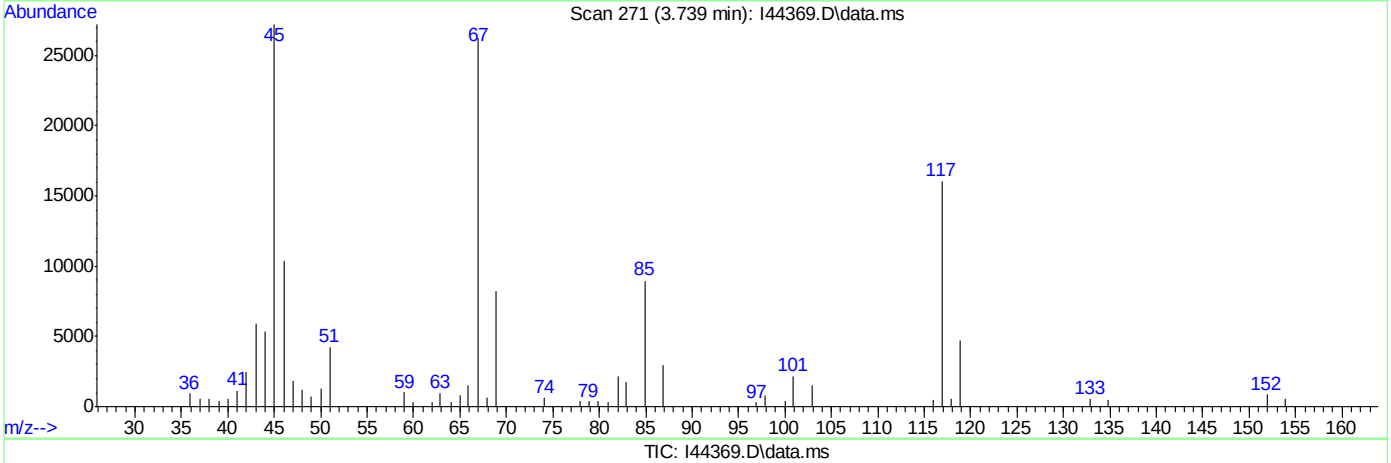
SGS ACCUTEST FA39742

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\DATA\122216\
Data File : I44369.D
Acq On : 22 Dec 2016 12:10 pm
Operator : WILFREDO
Sample : IC1214-6 Inst : MSVOA16
Misc : MS35881,VI1214,,,,,
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Dec 22 12:42:26 2016
Quant Method : C:\msdchem\2\METHODS\I-DEC22.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon Nov 28 10:18:42 2016
Response via : Initial Calibration





TIC: I44369.D\data.ms

(107) Ethanol

3.739min (+0.018) 891.02ug/L

response 133521

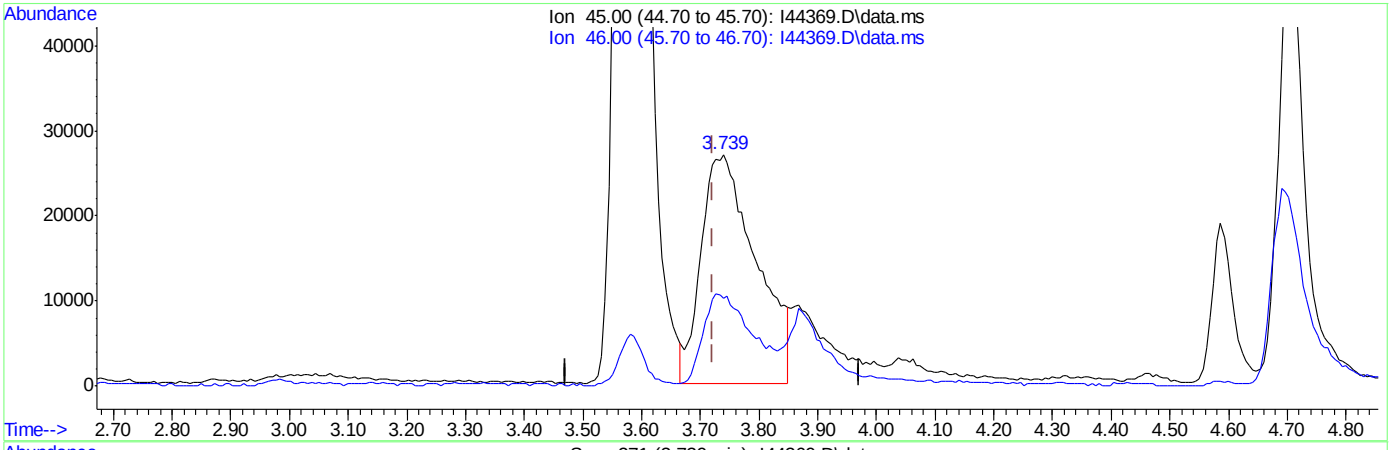
Ion	Exp%	Act%
45.00	100	100
46.00	39.10	42.83
0.00	0.00	0.00
0.00	0.00	0.00

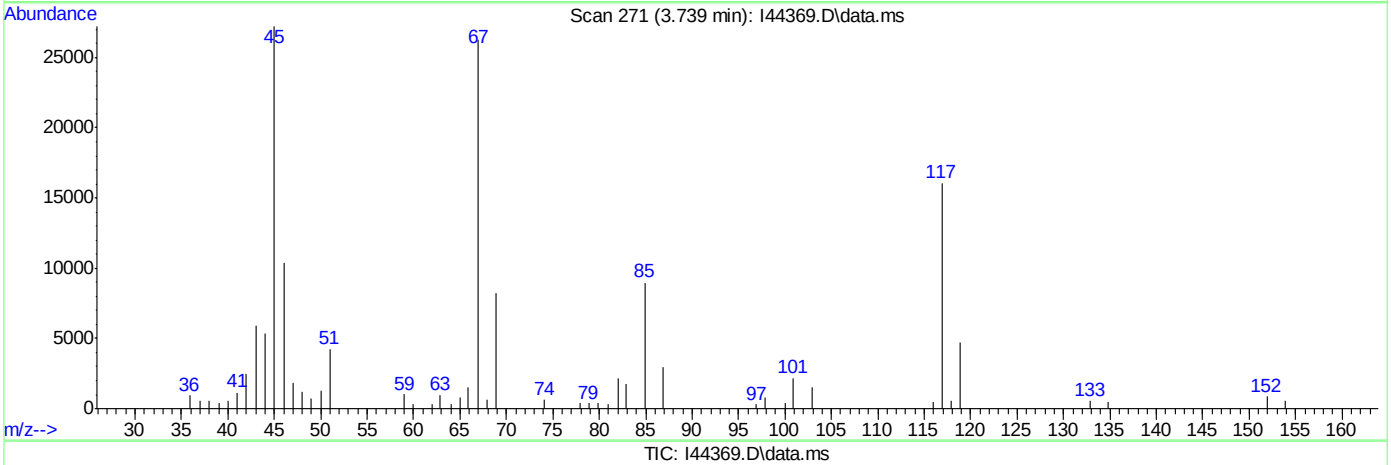
SGS ACCUTEST FA39742

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\DATA\122216\
Data File : I44369.D
Acq On : 22 Dec 2016 12:10 pm
Operator : WILFREDO
Sample : IC1214-6 Inst : MSVOA16
Misc : MS35881,VI1214,,,,,
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Dec 22 12:42:26 2016
Quant Method : C:\msdchem\2\METHODS\I-DEC22.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon Nov 28 10:18:42 2016
Response via : Initial Calibration





TIC: I44369.D\data.ms

(107) Ethanol

3.739min (+0.018) 1164.31ug/L m

response 174474

Ion	Exp%	Act%
45.00	100	100
46.00	39.10	38.04
0.00	0.00	0.00
0.00	0.00	0.00

SGS ACCUTEST FA39742

I44370.D

Manual Integrations APPROVED (compounds with "m" flag)

Juan Garcia
12/23/16 14:50

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\122216\
Data File : I44370.D
Acq On : 22 Dec 2016 12:33 pm
Operator : WILFREDO
Sample : IC1214-7 Inst : MSVOA16
Misc : MS35881,VI1214,,,,,
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Dec 22 13:44:15 2016
Quant Method : C:\msdchem\2\METHODS\I-DEC22.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon Nov 28 10:18:42 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.116	96	2363361	50.00	ug/L	0.00
56) Chlorobenzene-d5	10.226	117	1611752	50.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	12.591	152	780231	50.00	ug/L	0.00
106) Tert Butyl Alcohol-d10	4.702	65	259624	250.00	ug/L	0.01
System Monitoring Compounds						
36) Dibromofluoromethane	6.275	113	607547	51.58	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery	= 103.16%		
46) 1,2-Dichloroethane-d4	6.830	65	800865	51.25	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery	= 102.50%		
57) Toluene-d8	8.677	98	2263506	50.79	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery	= 101.58%		
79) 4-Bromofluorobenzene	11.439	174	586428	50.65	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery	= 101.30%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.270	85	1573443	91.90	ug/L	99
3) Chloromethane	2.483	50	2200424	107.34	ug/L	100
4) 1,3-Butadiene	2.611	39	1422497	97.93	ug/L	99
5) Vinyl Chloride	2.611	62	1752806	110.09	ug/L	99
6) Bromomethane	2.971	94	364381	69.54	ug/L	98
7) Chloroethane	3.129	64	323766	52.88	ug/L	96
8) Trichlorofluoromethane	3.288	101	1505327	98.82	ug/L	98
9) Ethyl Ether	3.587	59	1348303	111.95	ug/L	98
10) 1,2-Dichlorotrifluoroe...	3.824	67	1594038m	113.54	ug/L	
11) 1,1-Dichloroethene	3.818	61	2347400	117.38	ug/L	99
12) Freon 113	3.891	101	1278150	113.34	ug/L	99
13) Carbon Disulfide	3.873	76	4306598	121.90	ug/L	99
14) Iodomethane	3.983	142	1844606	106.64	ug/L	100
15) Allyl chloride	4.318	41	2084154	139.08	ug/L	98
16) Methylene Chloride	4.428	49	2149741	109.51	ug/L	96
17) Acetone	4.471	43	1716425	510.16	ug/L	100
18) Methyl acetate	4.592	43	4863302	608.32	ug/L	100
19) trans-1,2-Dichloroethene	4.611	61	2153887	119.26	ug/L	99
20) Hexane	4.684	56	1618170	113.22	ug/L	91
21) Methyl Tert Butyl Ether	4.708	73	3413183	110.03	ug/L	80
22) Acetonitrile	4.958	41	1300429	1232.95	ug/L	99
23) Di-isopropyl ether	5.086	45	5190985	114.45	ug/L	99
24) Chloroprene	5.226	53	2524798	114.06	ug/L	99
25) 1,1-Dichloroethane	5.245	63	2544251	109.19	ug/L	99
26) Acrylonitrile	5.281	53	2797197	576.28	ug/L	99
27) ETBE	5.470	59	4730413	112.93	ug/L	100
28) Vinyl acetate	5.470	43	15453102	570.93	ug/L	98
29) cis-1,2-Dichloroethene	5.812	96	1340165	102.71	ug/L	97
30) 2,2-Dichloropropane	5.928	77	1223510	107.41	ug/L	100
31) Bromochloromethane	6.025	128	619372	107.65	ug/L	96
32) Cyclohexane	6.062	56	2855878	114.91	ug/L	99
33) Chloroform	6.086	83	2311524	104.81	ug/L	99
34) Ethyl acetate	6.171	43	6638266	607.04	ug/L	100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\122216\
Data File : I44370.D
Acq On : 22 Dec 2016 12:33 pm
Operator : WILFREDO
Sample : IC1214-7 Inst : MSVOA16
Misc : MS35881,VI1214,,,,,
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Dec 22 13:44:15 2016
Quant Method : C:\msdchem\2\METHODS\I-DEC22.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon Nov 28 10:18:42 2016
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
35)	Tetrahydrofuran	6.269	42	355823	111.89	ug/L		98
37)	Carbon Tetrachloride	6.263	117	1499509	113.73	ug/L		99
38)	1,1,1-Trichloroethane	6.330	97	1897300	107.46	ug/L		98
39)	2-Butanone	6.385	43	2735163	591.39	ug/L		99
40)	1,1-Dichloropropene	6.452	75	1752181	107.09	ug/L		99
41)	tert-Butyl formate	6.537	59	10308836	1214.80	ug/L		94
42)	Propionitrile	6.690	54	1907841	1079.01	ug/L	#	74
43)	Methacrylonitrile	6.720	41	6758384	975.13	ug/L		99
44)	Benzene	6.702	78	4375296	95.00	ug/L		99
45)	TAME	6.793	73	3336463	109.48	ug/L		99
47)	1,2-Dichloroethane	6.903	62	1874160	101.97	ug/L		98
48)	Trichloroethene	7.293	95	1305410	103.64	ug/L		99
49)	Methylcyclohexane	7.305	83	2341156	112.95	ug/L		99
50)	Dibromomethane	7.720	93	773028	108.10	ug/L		99
51)	1,2-Dichloropropane	7.811	63	1454286	109.51	ug/L		99
52)	Bromodichloromethane	7.860	83	1622900	115.98	ug/L		99
53)	Methyl methacrylate	7.976	41	1083487	121.70	ug/L		96
54)	2-Chloroethyl vinyl ether	8.397	63	4309284	599.36	ug/L		98
55)	cis-1,3-Dichloropropene	8.482	75	1987320	127.06	ug/L		98
58)	Toluene	8.726	91	4595839	95.66	ug/L		100
59)	2-Nitropropane	8.933	41	1530882	642.34	ug/L		100
60)	4-Methyl-2-pentanone	9.061	43	6395070	585.27	ug/L		99
61)	trans-1,3-Dichloropropene	9.122	75	1670831	130.25	ug/L		99
62)	Tetrachloroethene	9.128	166	1226667	107.48	ug/L		99
63)	Ethyl methacrylate	9.244	69	1541956	117.64	ug/L		99
64)	1,1,2-Trichloroethane	9.281	83	913028	104.56	ug/L		99
65)	Dibromochloromethane	9.476	129	1100253	122.85	ug/L		100
66)	1,3-Dichloropropane	9.561	76	1910625	103.13	ug/L		98
67)	1,2-Dibromoethane	9.732	107	1038114	106.97	ug/L		98
68)	2-hexanone	9.884	43	4489561	627.91	ug/L		99
69)	1-Chlorohexane	10.189	91	1825375	112.20	ug/L		97
70)	Ethylbenzene	10.250	91	5068124	94.65	ug/L		99
71)	Chlorobenzene	10.244	112	3143409	101.58	ug/L		99
72)	1,1,1,2-Tetrachloroethane	10.299	131	1036594	106.55	ug/L		100
73)	m,p-Xylene	10.390	91	8094874	200.40	ug/L		99
74)	o-Xylene	10.829	91	4450817	107.99	ug/L		98
75)	Styrene	10.878	104	3095178	105.54	ug/L		99
76)	Bromoform	10.927	173	568086	141.64	ug/L		99
77)	Isopropylbenzene	11.134	105	5260680	107.87	ug/L		99
80)	cis-1,4-Dichloro-2-butene	11.481	53	214201	203.09	ug/L		89
81)	n-Propylbenzene	11.555	91	6478671	108.17	ug/L		100
82)	Bromobenzene	11.561	156	1142398	94.01	ug/L		100
83)	1,1,2,2-Tetrachloroethane	11.615	83	1376041	104.22	ug/L		99
84)	1,3,5-Trimethylbenzene	11.743	105	4143168	100.01	ug/L		100
85)	2-Chlorotoluene	11.737	91	4264946	105.60	ug/L		99
86)	trans-1,4-Dichloro-2-B...	11.798	53	281680	209.15	ug/L		98
87)	1,2,3-Trichloropropane	11.768	110	354456	101.86	ug/L		98
88)	Cyclohexanone	11.829	55	317028	688.12	ug/L		99
89)	4-Chlorotoluene	11.902	91	3956458	106.10	ug/L		99
90)	tert-Butylbenzene	12.079	91	2632925	106.94	ug/L		99

SGS ACCUTEST FA39742

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\122216\
Data File : I44370.D
Acq On : 22 Dec 2016 12:33 pm
Operator : WILFREDO
Sample : IC1214-7 Inst : MSVOA16
Misc : MS35881,VI1214,,,,,
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Dec 22 13:44:15 2016
Quant Method : C:\msdchem\2\METHODS\I-DEC22.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon Nov 28 10:18:42 2016
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
91)	a-Methyl styrene	12.006	118	2397080	116.64	ug/L		100
92)	1,2,4-Trimethylbenzene	12.152	105	4004714	97.89	ug/L		99
93)	Pentachloroethane	12.121	167	565290	111.12	ug/L		99
94)	sec-Butylbenzene	12.262	105	5605491	106.06	ug/L		99
95)	4-Isopropyltoluene	12.402	119	4356487	102.51	ug/L		99
96)	1,3-Dichlorobenzene	12.518	146	2342738	105.41	ug/L		99
97)	1,4-Dichlorobenzene	12.609	146	2369121	100.16	ug/L		97
98)	n-Butylbenzene	12.841	92	2695832	104.42	ug/L		95
99)	Benzyl Chloride	12.847	126	481110	141.35	ug/L	#	81
100)	1,2-Dichlorobenzene	13.048	146	2310503	107.47	ug/L		99
101)	1,2-Dibromo-3-Chloropr...	13.828	75	224986	131.02	ug/L		98
102)	Hexachlorobutadiene	14.414	225	627404	102.80	ug/L		99
103)	1,2,4-Trichlorobenzene	14.450	180	1451931	102.24	ug/L		99
104)	Naphthalene	14.731	128	3241275	106.66	ug/L		100
105)	1,2,3-Trichlorobenzene	14.889	180	1293004	100.44	ug/L		100
107)	Ethanol	3.739	45	241830m	1488.21	ug/L		
108)	Acrolein	4.166	56	1210288	502.07	ug/L		99
109)	Tert Butyl Alcohol	4.781	59	1241609	997.85	ug/L		97
110)	Isobutyl alcohol	6.842	43	1089016	2186.36	ug/L		94
111)	Tert Amyl Alcohol	6.958	59	1096071	1151.25	ug/L		96
112)	1,4-Dioxane	8.049	88	215814	1907.96	ug/L		97
113)	3,3-Dimethyl-1-butanol	9.848	57	6448060	6062.88	ug/L		99

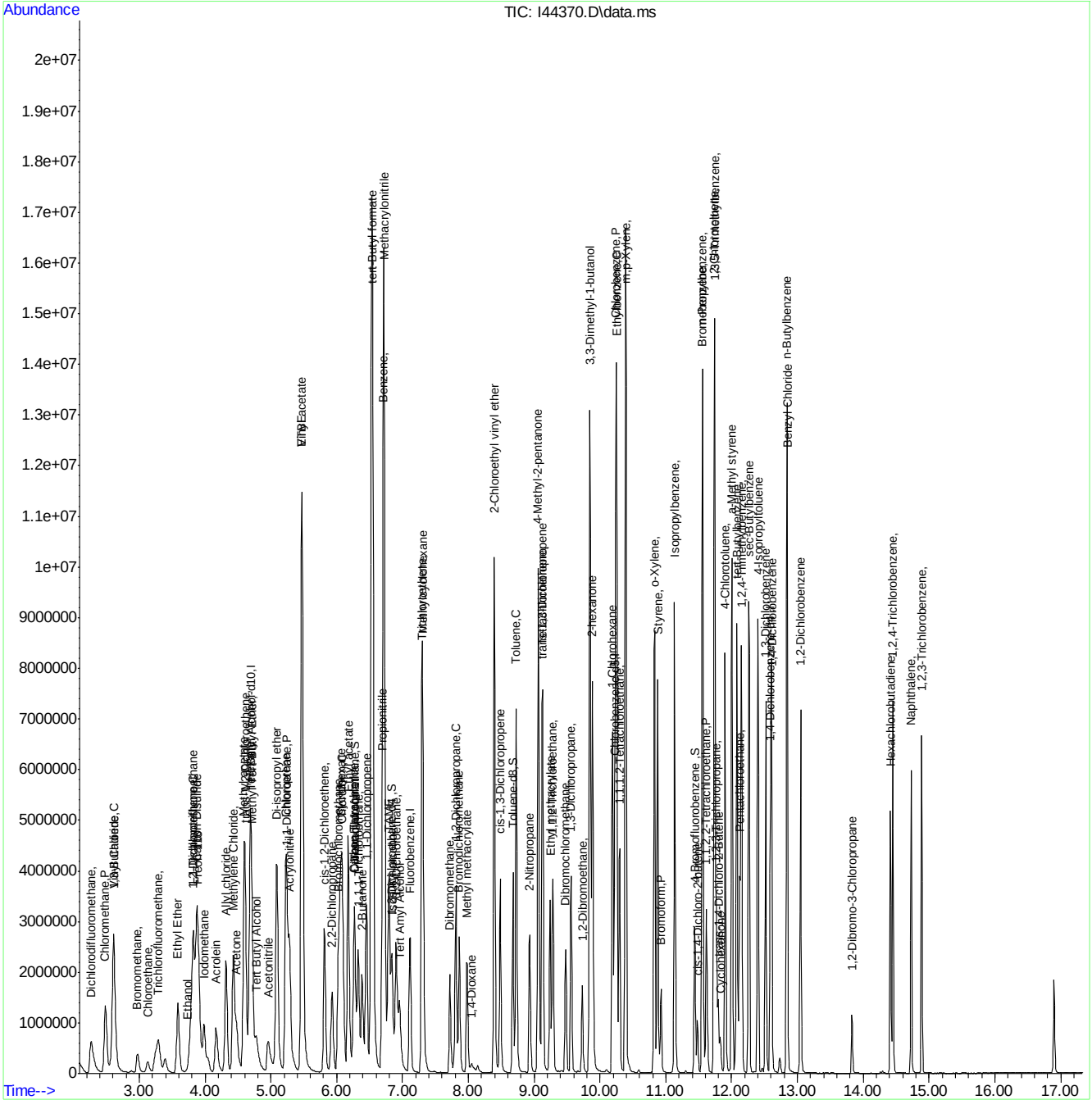
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST FA39742

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\122216\
Data File : I44370.D
Acq On : 22 Dec 2016 12:33 pm
Operator : WILFREDO
Sample : IC1214-7 Inst : MSVOA16
Misc : MS35881,VI1214,,,,,
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Dec 22 13:44:15 2016
Quant Method : C:\msdchem\2\METHODS\I-DEC22.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon Nov 28 10:18:42 2016
Response via : Initial Calibration



Manual Integration Approval Summary

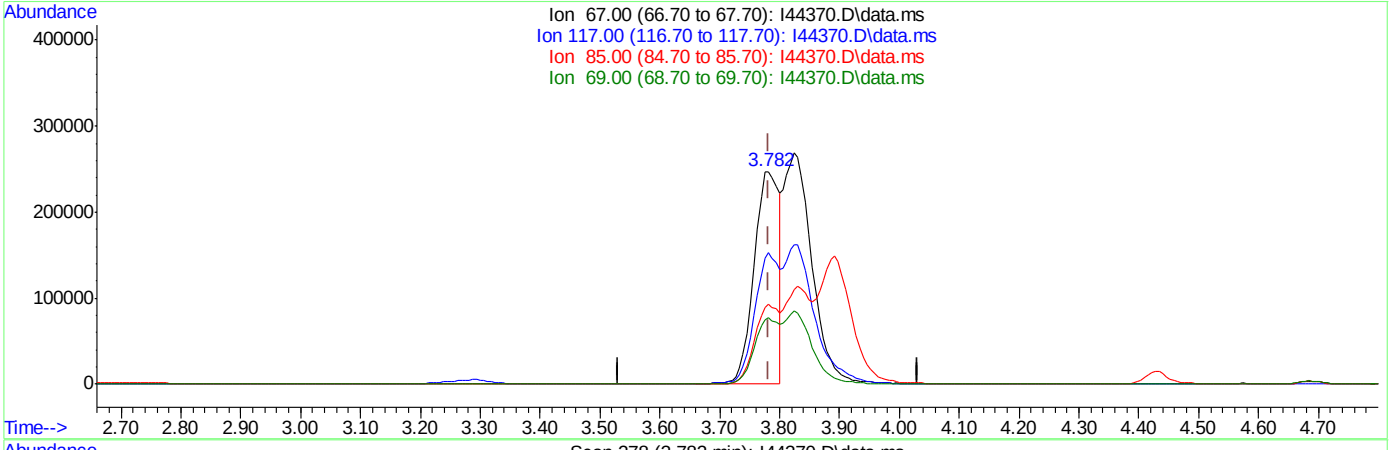
Sample Number:	VI1214-IC1214	**Method:**	SW846 8260B
Lab FileID:	I44370.D	**Analyst approved:**	12/23/16 14:46 Wilfredo Vazquez
Injection Time:	12/22/16 12:33	**Supervisor approved:**	12/23/16 14:50 Juan Garcia

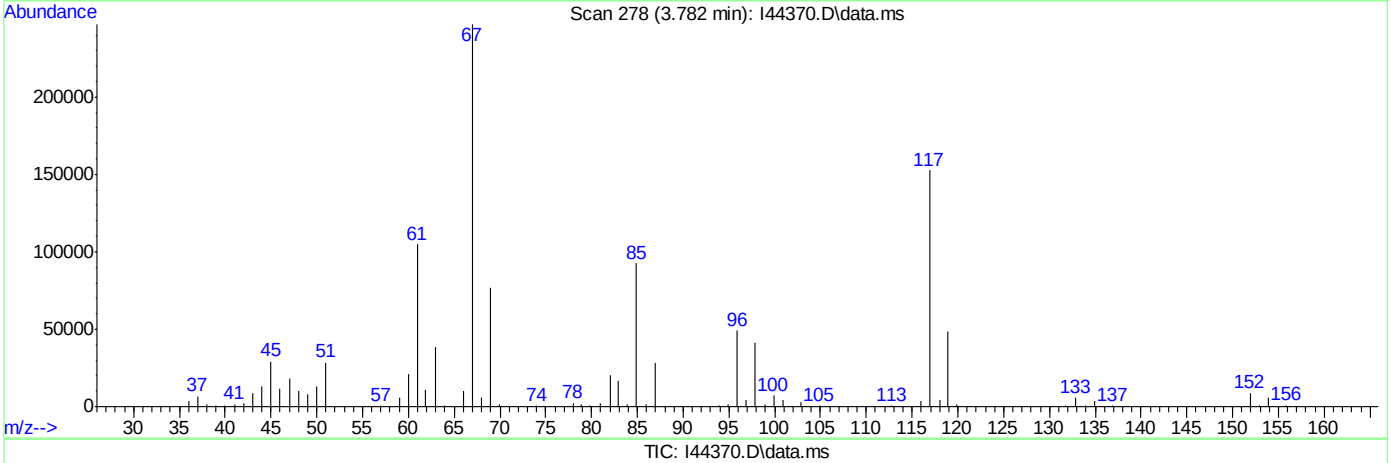
Parameter	CAS	Sig#	R.T. (min.)	Reason
Ethyl Alcohol	64-17-5		3.74	Poor instrument integration
1,2-Dichlorotrifluoroethane	354-23-4		3.82	Split peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\DATA\122216\
Data File : I44370.D
Acq On : 22 Dec 2016 12:33 pm
Operator : WILFREDO
Sample : IC1214-7 Inst : MSVOA16
Misc : MS35881,VI1214,,,,,
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Dec 22 13:43:39 2016
Quant Method : C:\msdchem\2\METHODS\I-DEC22.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon Nov 28 10:18:42 2016
Response via : Initial Calibration





(10) 1,2-Dichlorotrifluoroethane

3.782min (+0.000) 50.56ug/L

response 709783

Ion	Exp%	Act%
67.00	100	100
117.00	64.40	61.96
85.00	38.00	37.54
69.00	32.20	31.27

SGS ACCUTEST FA39742

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\DATA\122216\
Data File : I44370.D
Acq On : 22 Dec 2016 12:33 pm
Operator : WILFREDO
Sample : IC1214-7 Inst : MSVOA16
Misc : MS35881,VI1214,,,,,
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Dec 22 13:43:39 2016
Quant Method : C:\msdchem\2\METHODS\I-DEC22.M
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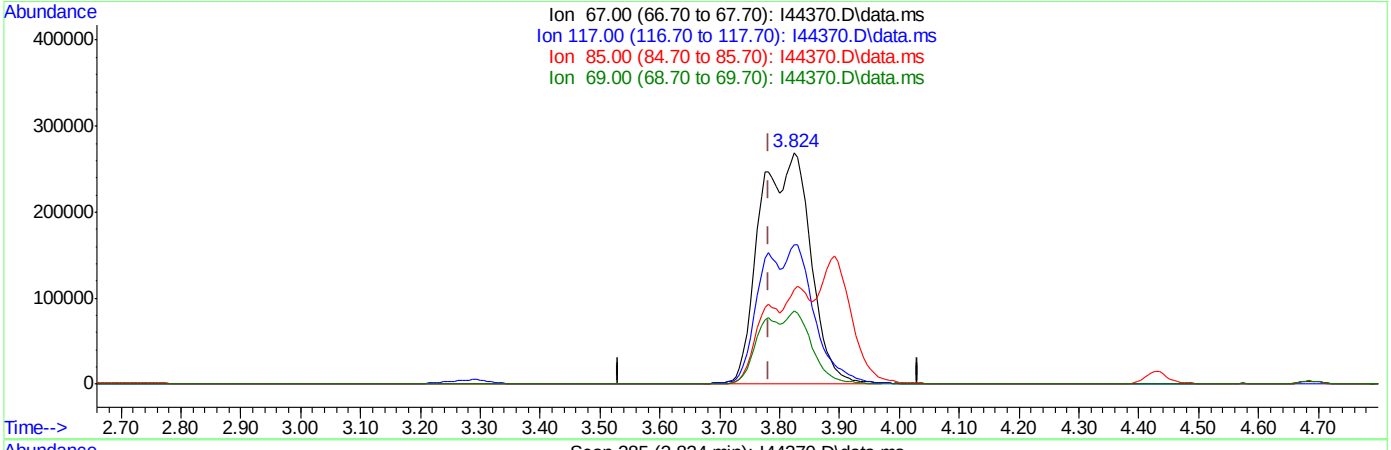
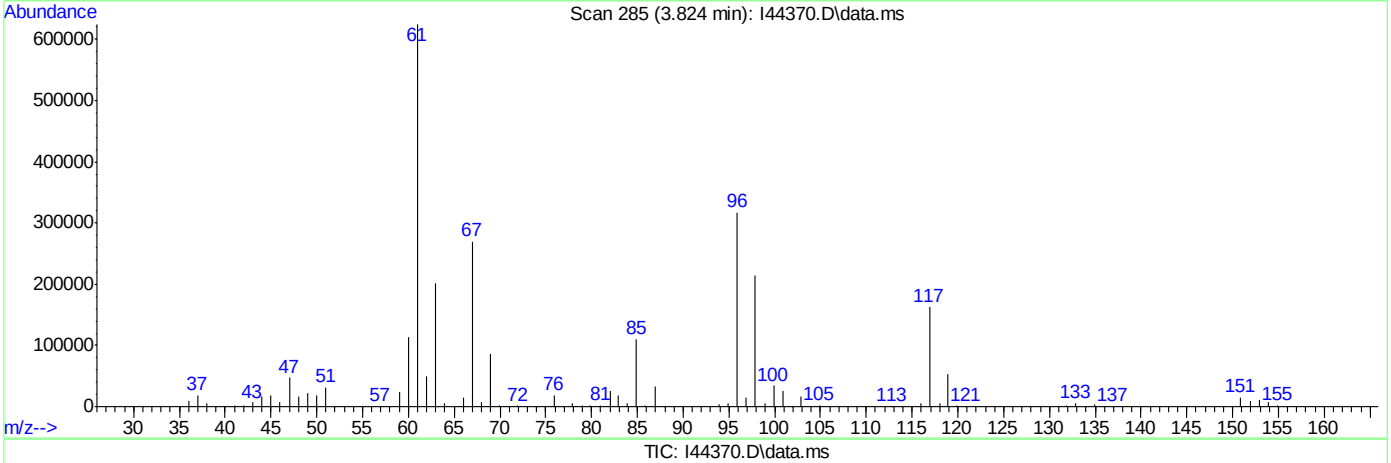




(10) 1,2-Dichlorotrifluoroethane

3.824min (+0.043) 113.54ug/L m

response 1594038

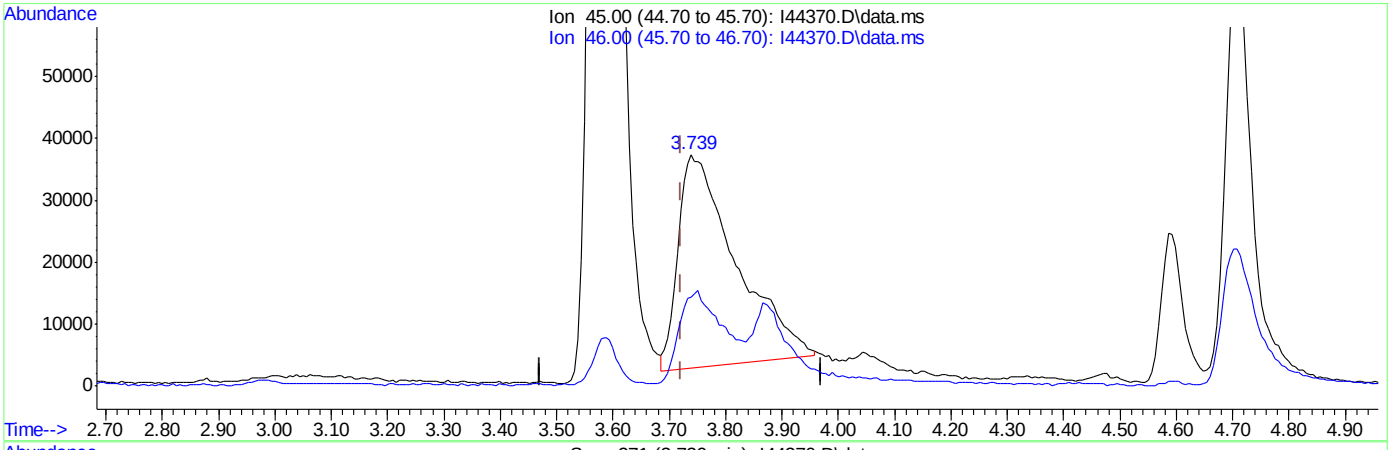
Ion	Exp%	Act%
67.00	100	100
117.00	64.40	60.42
85.00	38.00	40.84
69.00	32.20	31.81

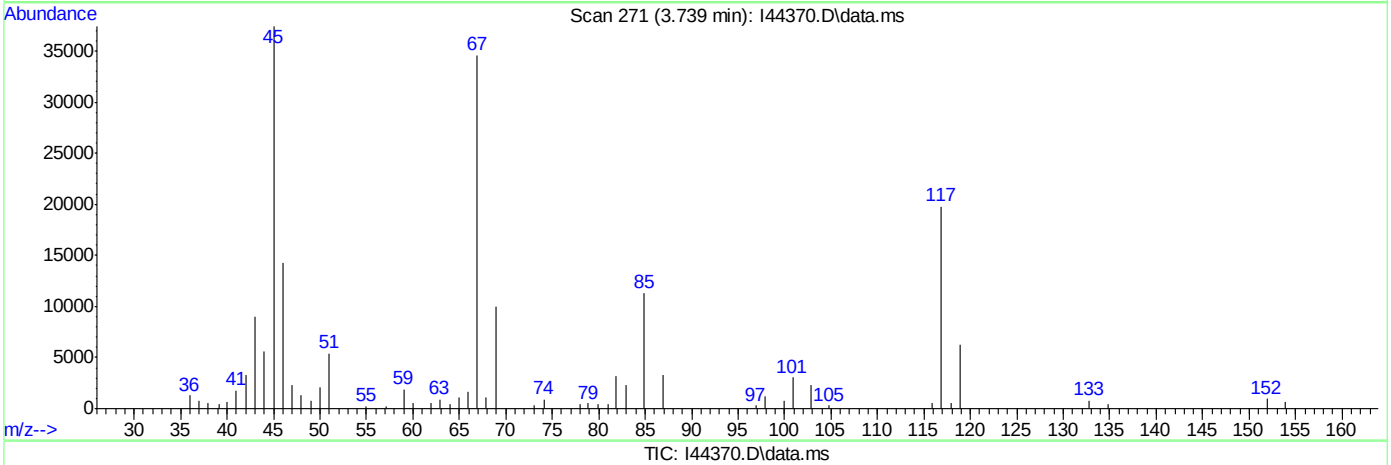
SGS ACCUTEST FA39742

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\DATA\122216\
Data File : I44370.D
Acq On : 22 Dec 2016 12:33 pm
Operator : WILFREDO
Sample : IC1214-7 Inst : MSVOA16
Misc : MS35881,VI1214,,,,,
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Dec 22 13:43:39 2016
Quant Method : C:\msdchem\2\METHODS\I-DEC22.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon Nov 28 10:18:42 2016
Response via : Initial Calibration





TIC: I44370.D\data.ms

(107) Ethanol

3.739min (+0.018) 1502.15ug/L

response 244096

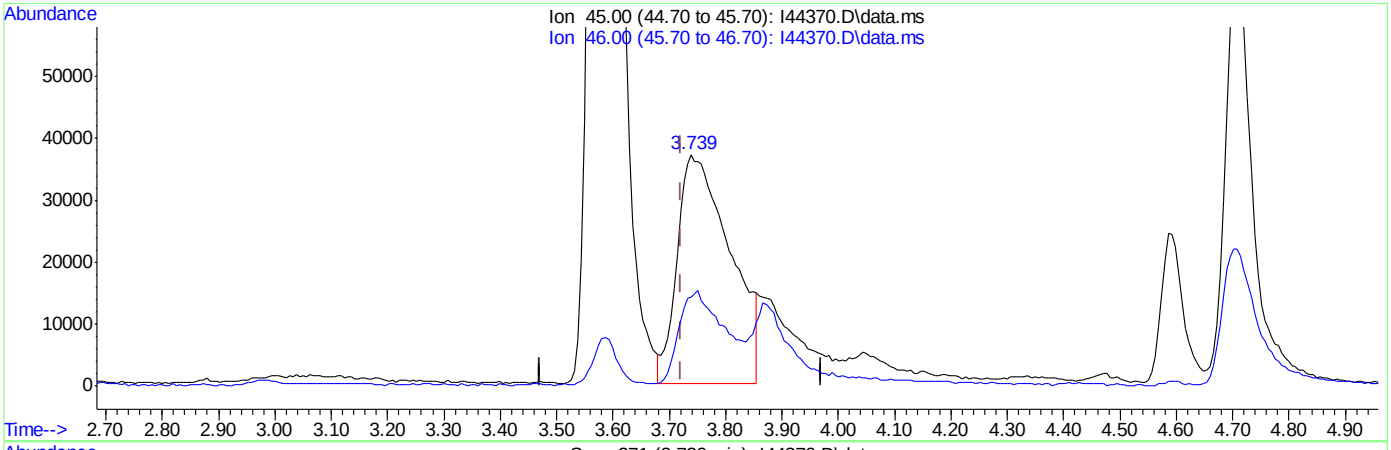
Ion	Exp%	Act%
45.00	100	100
46.00	39.10	42.20
0.00	0.00	0.00
0.00	0.00	0.00

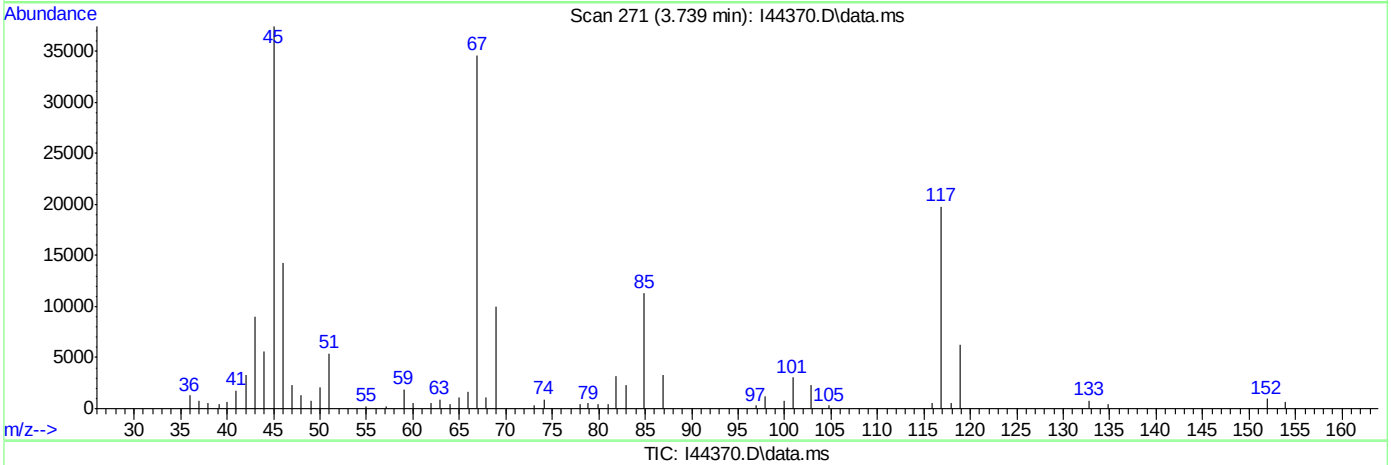
SGS ACCUTEST FA39742

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\DATA\122216\
Data File : I44370.D
Acq On : 22 Dec 2016 12:33 pm
Operator : WILFREDO
Sample : IC1214-7 Inst : MSVOA16
Misc : MS35881,VI1214,,,,,
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Dec 22 13:43:39 2016
Quant Method : C:\msdchem\2\METHODS\I-DEC22.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon Nov 28 10:18:42 2016
Response via : Initial Calibration





TIC: I44370.D\data.ms

(107) Ethanol

3.739min (+0.018) 1488.21ug/L m

response 241830

Ion	Exp%	Act%
45.00	100	100
46.00	39.10	38.28
0.00	0.00	0.00
0.00	0.00	0.00

SGS ACCUTEST FA39742

Manual Integrations APPROVED (compounds with "m" flag)
Juan Garcia
12/23/16 14:50

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\122216\
Data File : I44372.D
Acq On : 22 Dec 2016 1:20 pm
Operator : WILFREDO
Sample : ICV1214-5 Inst : MSVOA16
Misc : MS35881,VI1214,,,,,
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Dec 23 09:58:22 2016
Quant Method : C:\msdchem\2\METHODS\I-DEC22.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Dec 23 08:49:58 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.116	96	2419153	50.00	ug/L	0.00
56) Chlorobenzene-d5	10.225	117	1642610	50.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	12.591	152	804252	50.00	ug/L	0.00
106) Tert Butyl Alcohol-d10	4.696	65	208623	250.00	ug/L	0.00
System Monitoring Compounds						
36) Dibromofluoromethane	6.275	113	603517	49.42	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 98.84%			
46) 1,2-Dichloroethane-d4	6.830	65	817155	47.38	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 94.76%			
57) Toluene-d8	8.677	98	2220223	49.43	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 98.86%			
79) 4-Bromofluorobenzene	11.439	174	572437	48.87	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 97.74%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.270	85	651897	40.45	ug/L	98
3) Chloromethane	2.483	50	818573	33.69	ug/L	100
5) Vinyl Chloride	2.605	62	660355	35.62	ug/L	98
6) Bromomethane	2.977	94	182452	34.36	ug/L	99
7) Chloroethane	3.135	64	235689	35.40	ug/L	100
8) Trichlorofluoromethane	3.294	101	690732	38.88	ug/L	100
9) Ethyl Ether	3.586	59	535068	37.71	ug/L	96
10) 1,2-Dichlorotrifluoroe...	3.782	67	662915m	40.48	ug/L	
11) 1,1-Dichloroethene	3.818	61	935533	40.15	ug/L	99
12) Freon 113	3.891	101	461996	36.30	ug/L	99
13) Carbon Disulfide	3.879	76	1546046	38.64	ug/L	97
14) Iodomethane	3.989	142	706595	39.27	ug/L	100
15) Allyl chloride	4.324	41	703133	33.02	ug/L	99
16) Methylene Chloride	4.428	49	895332	40.11	ug/L	98
17) Acetone	4.470	43	638321	175.00	ug/L	98
18) Methyl acetate	4.592	43	1900021	198.38	ug/L	99
19) trans-1,2-Dichloroethene	4.611	61	898407	40.91	ug/L	97
20) Hexane	4.690	56	641139	37.40	ug/L	97
21) Methyl Tert Butyl Ether	4.708	73	1363049	40.65	ug/L	93
22) Acetonitrile	4.964	41	387722	334.17	ug/L	98
23) Di-isopropyl ether	5.086	45	2081488	39.71	ug/L	99
24) Chloroprene	5.226	53	888784	37.04	ug/L	99
25) 1,1-Dichloroethane	5.251	63	1102336	42.61	ug/L	99
26) Acrylonitrile	5.281	53	982886	187.94	ug/L	99
27) ETBE	5.470	59	1863652	40.08	ug/L	99
28) Vinyl acetate	5.470	43	6240655	198.17	ug/L	100
29) cis-1,2-Dichloroethene	5.818	96	554547	42.77	ug/L	97
30) 2,2-Dichloropropane	5.934	77	560996	44.25	ug/L	99
31) Bromochloromethane	6.025	128	245657	40.78	ug/L	95
32) Cyclohexane	6.062	56	1122760	39.49	ug/L	97
33) Chloroform	6.086	83	981802	39.91	ug/L	98
34) Ethyl acetate	6.171	43	2422598	177.99	ug/L	99
35) Tetrahydrofuran	6.269	42	138862	38.05	ug/L	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\122216\
Data File : I44372.D
Acq On : 22 Dec 2016 1:20 pm
Operator : WILFREDO
Sample : ICV1214-5 Inst : MSVOA16
Misc : MS35881,VI1214,,,,,
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Dec 23 09:58:22 2016
Quant Method : C:\msdchem\2\METHODS\I-DEC22.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Dec 23 08:49:58 2016
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37)	Carbon Tetrachloride	6.269	117	610930	42.24	ug/L	99
38)	1,1,1-Trichloroethane	6.330	97	757185	39.16	ug/L	99
39)	2-Butanone	6.385	43	1089682	205.37	ug/L	97
40)	1,1-Dichloropropene	6.452	75	718415	41.45	ug/L	99
41)	tert-Butyl formate	6.537	59	1988103	210.27	ug/L	99
42)	Propionitrile	6.690	54	740116	379.02	ug/L	93
43)	Methacrylonitrile	6.714	41	2896276	362.14	ug/L	98
44)	Benzene	6.708	78	2051121	44.51	ug/L	93
45)	TAME	6.793	73	1336389	41.41	ug/L	97
47)	1,2-Dichloroethane	6.903	62	808797	39.13	ug/L	98
48)	Trichloroethene	7.293	95	550750	40.86	ug/L	99
49)	Methylcyclohexane	7.305	83	923094	40.99	ug/L	98
50)	Dibromomethane	7.720	93	317177	41.93	ug/L	98
51)	1,2-Dichloropropane	7.811	63	607560	42.17	ug/L	99
52)	Bromodichloromethane	7.866	83	678403	45.06	ug/L	98
53)	Methyl methacrylate	7.982	41	398161	36.29	ug/L	98
54)	2-Chloroethyl vinyl ether	8.390	63	1756783	200.65	ug/L	99
55)	cis-1,3-Dichloropropene	8.482	75	819854	40.70	ug/L	97
58)	Toluene	8.726	91	2058637	44.41	ug/L	100
59)	2-Nitropropane	8.933	41	567226	184.61	ug/L	99
60)	4-Methyl-2-pentanone	9.061	43	2495963	193.32	ug/L	99
61)	trans-1,3-Dichloropropene	9.122	75	725963	43.25	ug/L	98
62)	Tetrachloroethene	9.128	166	480922	38.76	ug/L	99
63)	Ethyl methacrylate	9.244	69	539933	34.85	ug/L	96
64)	1,1,2-Trichloroethane	9.280	83	388422	42.31	ug/L	98
65)	Dibromochloromethane	9.476	129	431920	39.29	ug/L	98
66)	1,3-Dichloropropane	9.561	76	781107	41.12	ug/L	96
67)	1,2-Dibromoethane	9.732	107	431057	44.87	ug/L	100
68)	2-hexanone	9.884	43	1751949	188.72	ug/L	96
69)	1-Chlorohexane	10.189	91	724148	43.24	ug/L	98
70)	Ethylbenzene	10.250	91	2379171	45.57	ug/L	99
71)	Chlorobenzene	10.244	112	1372551	41.93	ug/L	99
72)	1,1,1,2-Tetrachloroethane	10.299	131	450895	46.22	ug/L	99
73)	m,p-Xylene	10.390	91	3633416	90.67	ug/L	100
74)	o-Xylene	10.829	91	1817596	43.84	ug/L	99
75)	Styrene	10.878	104	1385380	44.31	ug/L	99
76)	Bromoform	10.926	173	213649	38.27	ug/L	99
77)	Isopropylbenzene	11.134	105	2188365	44.79	ug/L	100
80)	cis-1,4-Dichloro-2-butene	11.481	53	64203	38.44	ug/L	97
81)	n-Propylbenzene	11.554	91	2798339	43.15	ug/L	99
82)	Bromobenzene	11.561	156	534032	46.07	ug/L	99
83)	1,1,2,2-Tetrachloroethane	11.615	83	572608	40.10	ug/L	100
84)	1,3,5-Trimethylbenzene	11.743	105	1847601	46.36	ug/L	99
85)	2-Chlorotoluene	11.737	91	1809982	41.72	ug/L	99
86)	trans-1,4-Dichloro-2-B...	11.798	53	85620	37.06	ug/L	98
87)	1,2,3-Trichloropropane	11.768	110	151405	40.89	ug/L	97
88)	Cyclohexanone	11.829	55	99602	176.59	ug/L	99
89)	4-Chlorotoluene	11.902	91	1699546	43.07	ug/L	100
90)	tert-Butylbenzene	12.079	91	1095411	41.35	ug/L	98
92)	1,2,4-Trimethylbenzene	12.146	105	1831467	46.51	ug/L	99

SGS ACCUTEST FA39742

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\122216\
Data File : I44372.D
Acq On : 22 Dec 2016 1:20 pm
Operator : WILFREDO
Sample : ICV1214-5 Inst : MSVOA16
Misc : MS35881,VI1214,,,,,
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Dec 23 09:58:22 2016
Quant Method : C:\msdchem\2\METHODS\I-DEC22.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Dec 23 08:49:58 2016
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
93)	Pentachloroethane	12.121	167	231551	43.61	ug/L		99
94)	sec-Butylbenzene	12.262	105	2438875	43.93	ug/L		100
95)	4-Isopropyltoluene	12.402	119	1942229	43.37	ug/L		99
96)	1,3-Dichlorobenzene	12.518	146	976450	41.77	ug/L		99
97)	1,4-Dichlorobenzene	12.603	146	1028379	42.26	ug/L		98
98)	n-Butylbenzene	12.841	92	1177148	42.24	ug/L		96
99)	Benzyl Chloride	12.847	126	178953	39.75	ug/L	#	87
100)	1,2-Dichlorobenzene	13.048	146	944534	41.87	ug/L		99
101)	1,2-Dibromo-3-Chloropr...	13.828	75	79285	35.35	ug/L		99
102)	Hexachlorobutadiene	14.414	225	247143	41.59	ug/L		100
103)	1,2,4-Trichlorobenzene	14.450	180	621016	41.96	ug/L		99
104)	Naphthalene	14.731	128	1461756	44.31	ug/L		100
105)	1,2,3-Trichlorobenzene	14.889	180	550833	46.71	ug/L		99
107)	Ethanol	3.733	45	80862m	705.73	ug/L		
108)	Acrolein	4.166	56	379452	192.16	ug/L		99
109)	Tert Butyl Alcohol	4.775	59	554984	531.87	ug/L		86
110)	Isobutyl alcohol	6.842	43	337572	749.14	ug/L		89
111)	Tert Amyl Alcohol	6.952	59	308975	378.68	ug/L		97
112)	1,4-Dioxane	8.049	88	78166	857.07	ug/L		94
113)	3,3-Dimethyl-1-butanol	9.841	57	2061365	2016.96	ug/L		99

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

7.6.8

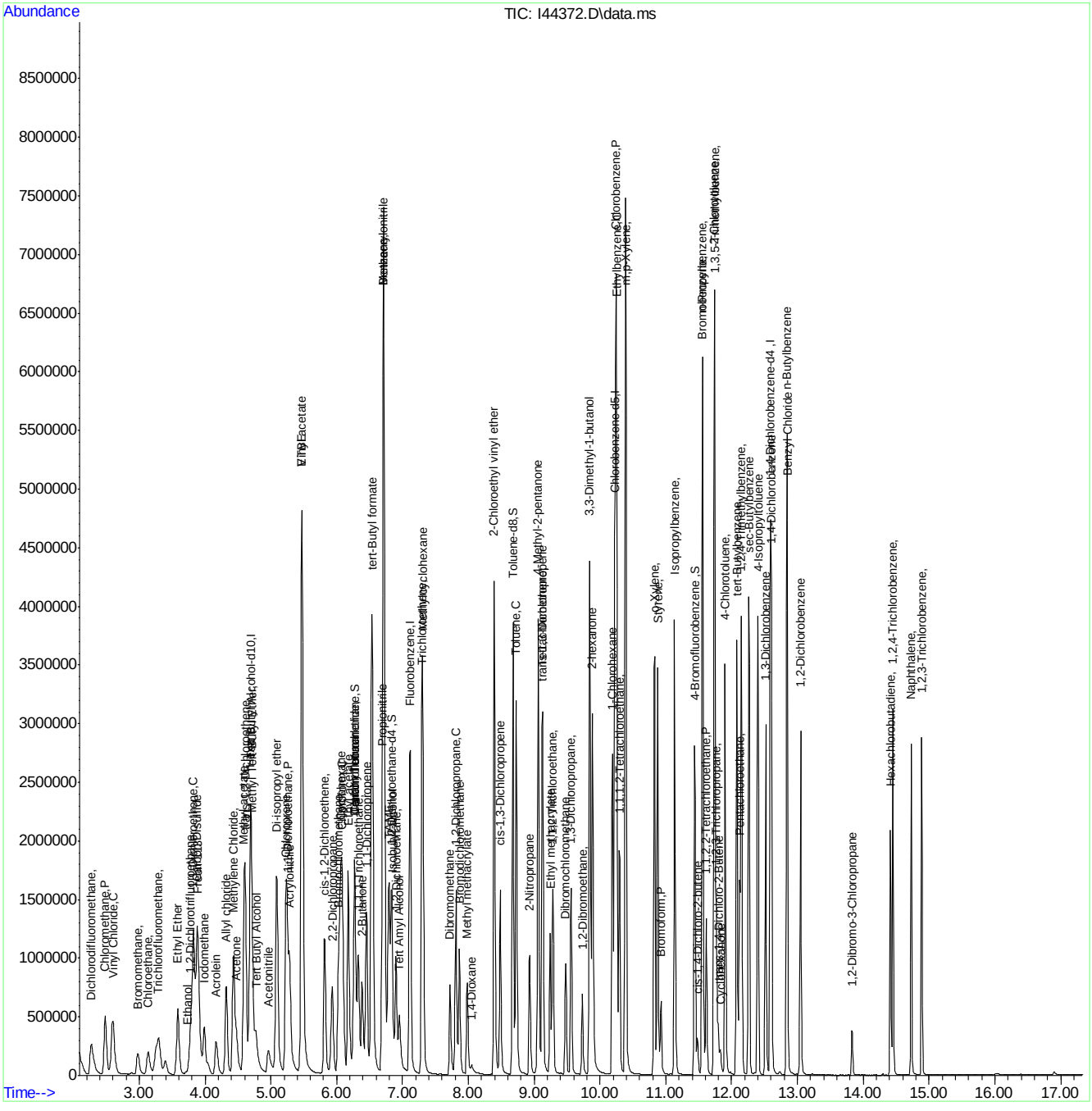
7

SGS ACCUTEST FA39742

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\122216\
Data File : I44372.D
Acq On : 22 Dec 2016 1:20 pm
Operator : WILFREDO
Sample : ICV1214-5 Inst : MSVOA16
Misc : MS35881,VI1214,,,,,
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Dec 23 09:58:22 2016
Quant Method : C:\msdchem\2\METHODS\I-DEC22.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Dec 23 08:49:58 2016
Response via : Initial Calibration



SGS ACCUTEST FA39742

Manual Integration Approval Summary

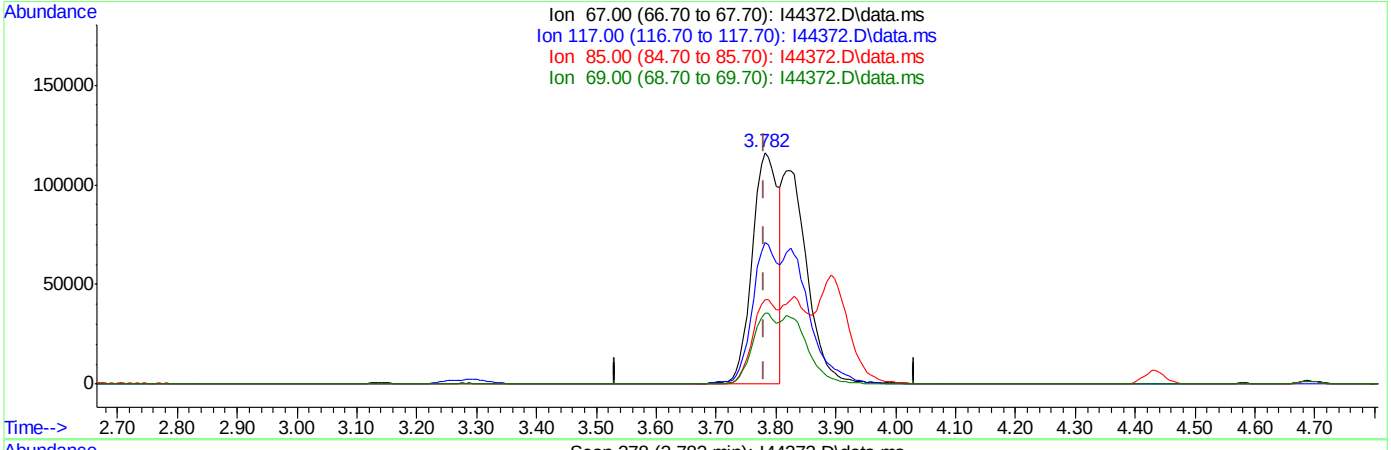
Sample Number:	VI1214-ICV1214	**Method:**	SW846 8260B
Lab FileID:	I44372.D	**Analyst approved:**	12/23/16 10:11 Wilfredo Vazquez
Injection Time:	12/22/16 13:20	**Supervisor approved:**	12/23/16 14:50 Juan Garcia

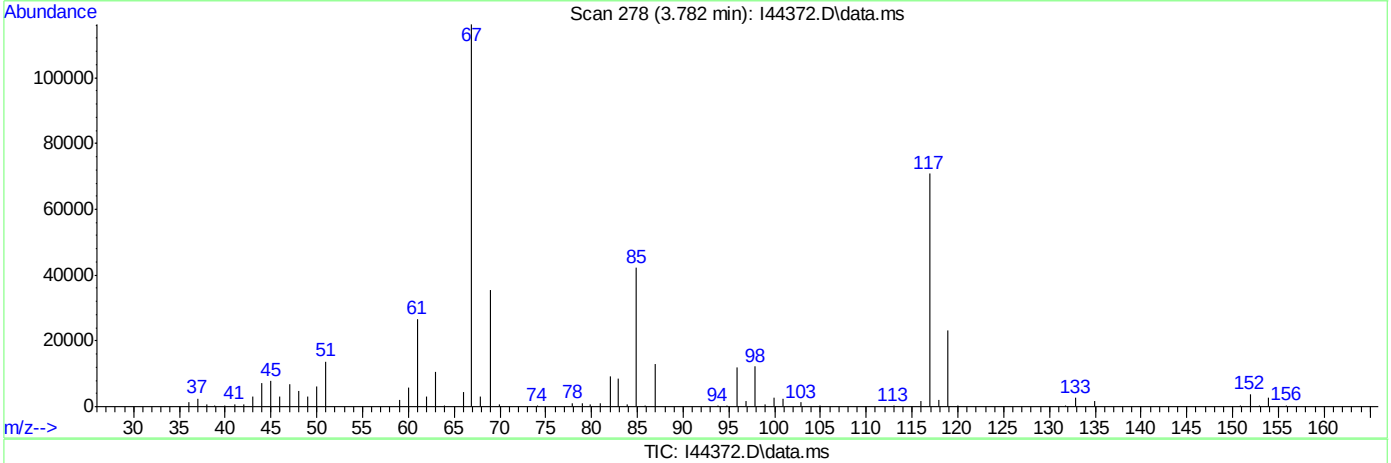
Parameter	CAS	Sig#	R.T. (min.)	Reason
Ethyl Alcohol	64-17-5		3.73	Poor instrument integration
1,2-Dichlorotrifluoroethane	354-23-4		3.78	Split peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\DATA\122216\
Data File : I44372.D
Acq On : 22 Dec 2016 1:20 pm
Operator : WILFREDO
Sample : ICV1214-5 Inst : MSVOA16
Misc : MS35881,VI1214,,,,,
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Dec 23 09:06:36 2016
Quant Method : C:\msdchem\2\METHODS\I-DEC22.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Dec 23 08:49:58 2016
Response via : Initial Calibration





(10) 1,2-Dichlorotrifluoroethane

3.782min (-0.000) 21.35ug/L

response 349673

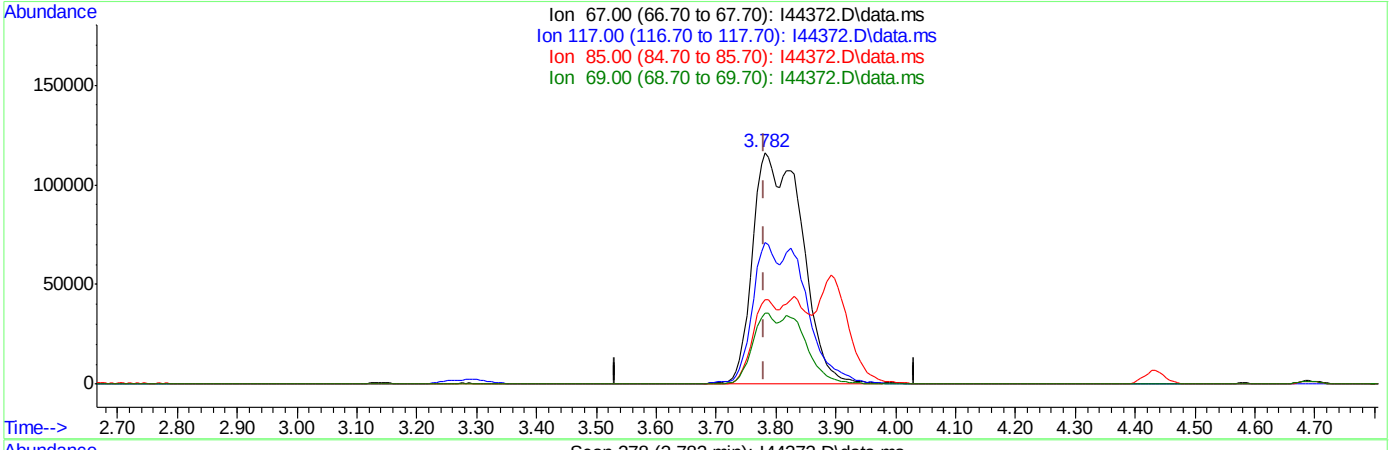
Ion	Exp%	Act%
67.00	100	100
117.00	57.70	60.91
85.00	36.80	36.32
69.00	29.70	30.58

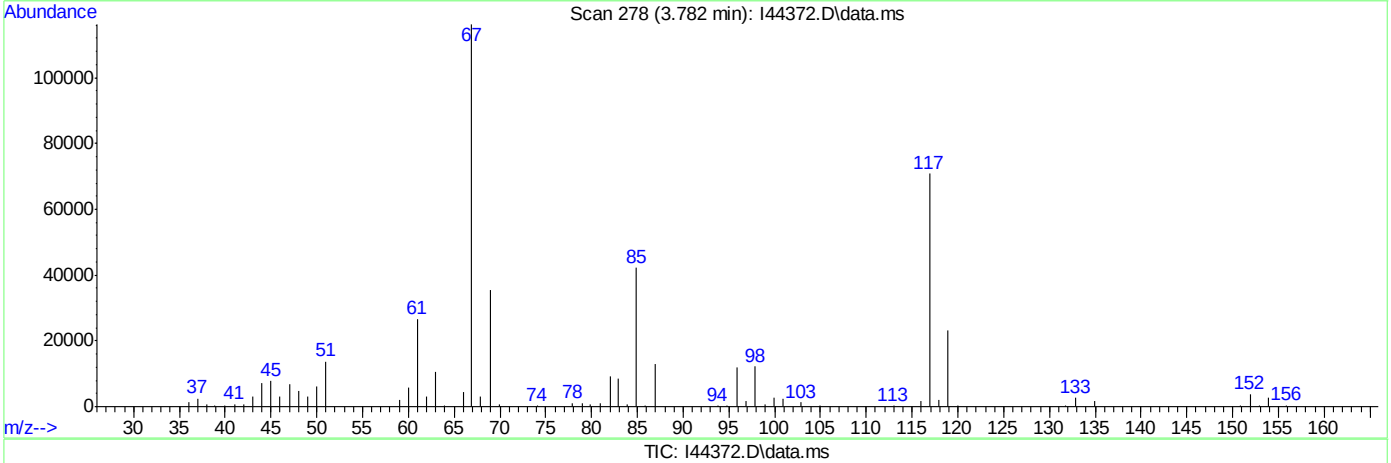
SGS ACCUTEST FA39742

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\DATA\122216\
Data File : I44372.D
Acq On : 22 Dec 2016 1:20 pm
Operator : WILFREDO
Sample : ICV1214-5 Inst : MSVOA16
Misc : MS35881,VI1214,,,,,
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Dec 23 09:06:36 2016
Quant Method : C:\msdchem\2\METHODS\I-DEC22.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Dec 23 08:49:58 2016
Response via : Initial Calibration





(10) 1,2-Dichlorotrifluoroethane

3.782min (-0.000) 40.48ug/L m

response 662915

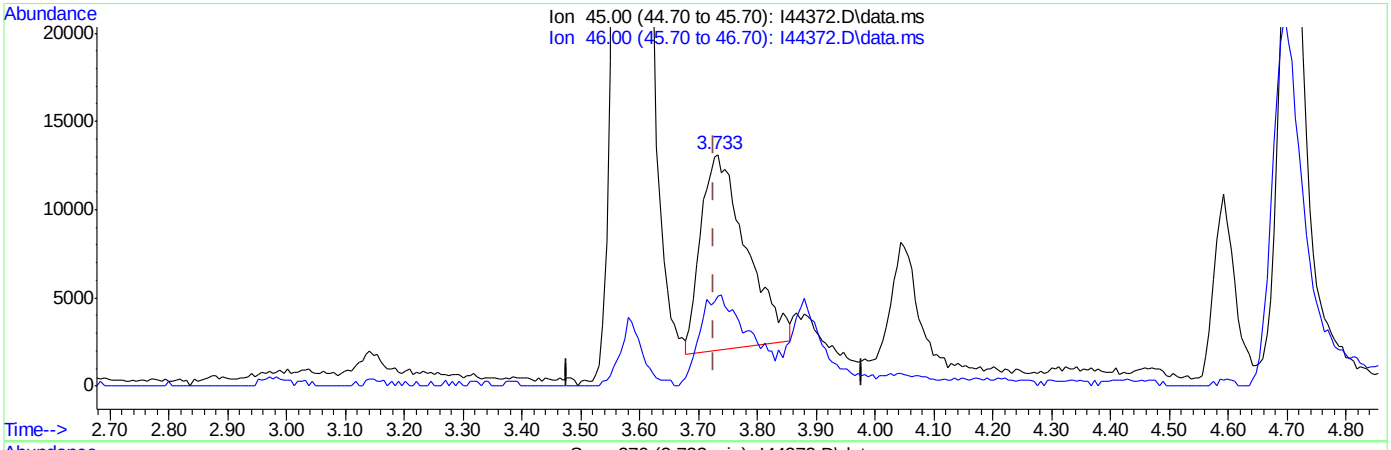
Ion	Exp%	Act%
67.00	100	100
117.00	57.70	60.91
85.00	36.80	36.32
69.00	29.70	30.58

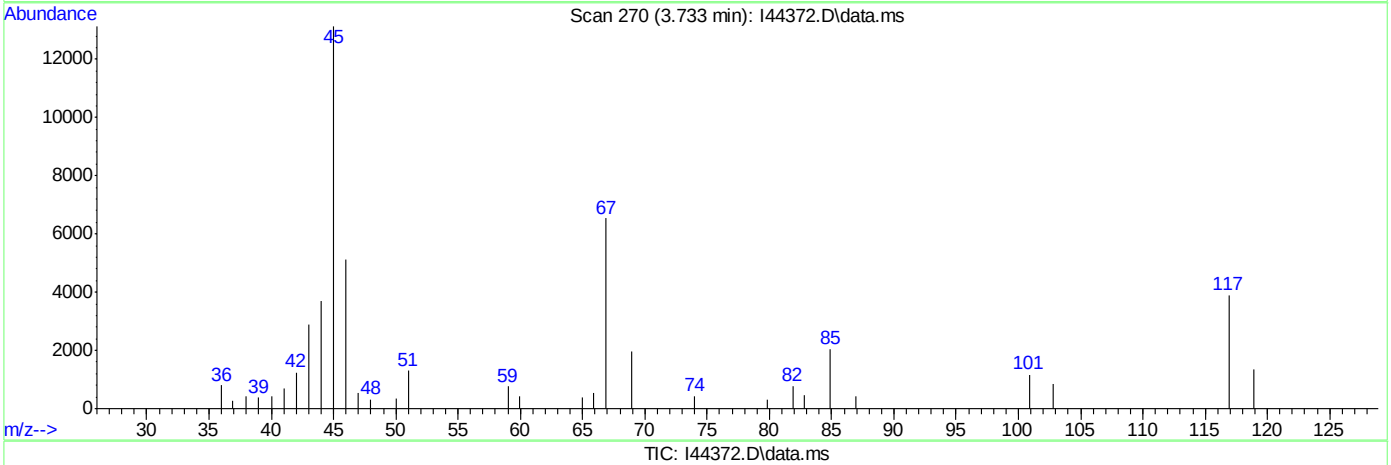
SGS ACCUTEST FA39742

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\DATA\122216\
Data File : I44372.D
Acq On : 22 Dec 2016 1:20 pm
Operator : WILFREDO
Sample : ICV1214-5 Inst : MSVOA16
Misc : MS35881,VI1214,,,,,
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Dec 23 09:06:36 2016
Quant Method : C:\msdchem\2\METHODS\I-DEC22.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Dec 23 08:49:58 2016
Response via : Initial Calibration





TIC: I44372.D\data.ms

(107) Ethanol

3.733min (+0.006) 518.80ug/L

response 59444

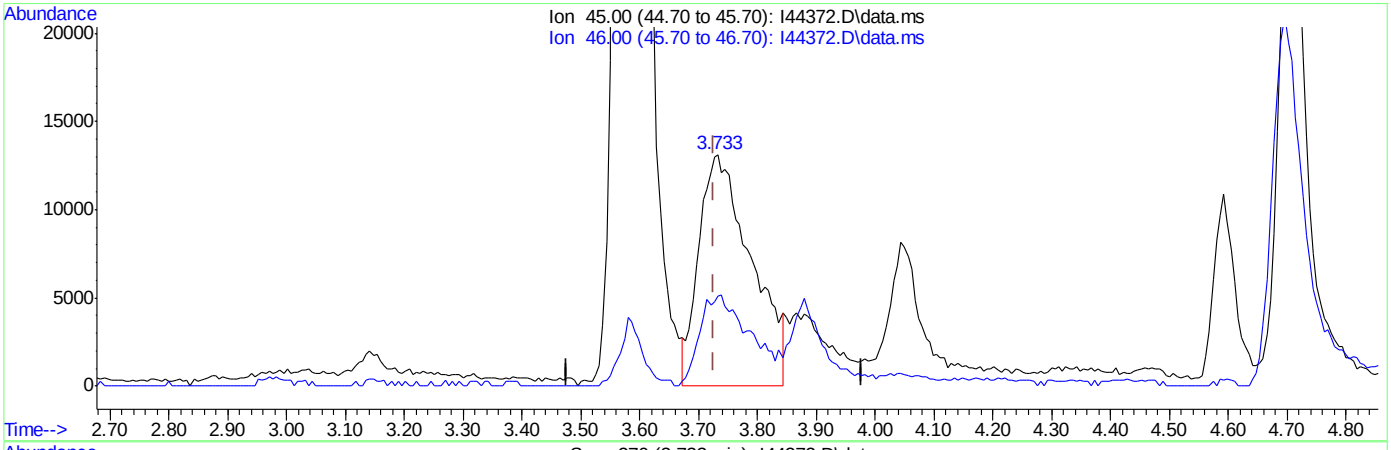
Ion	Exp%	Act%
45.00	100	100
46.00	37.40	44.02
0.00	0.00	0.00
0.00	0.00	0.00

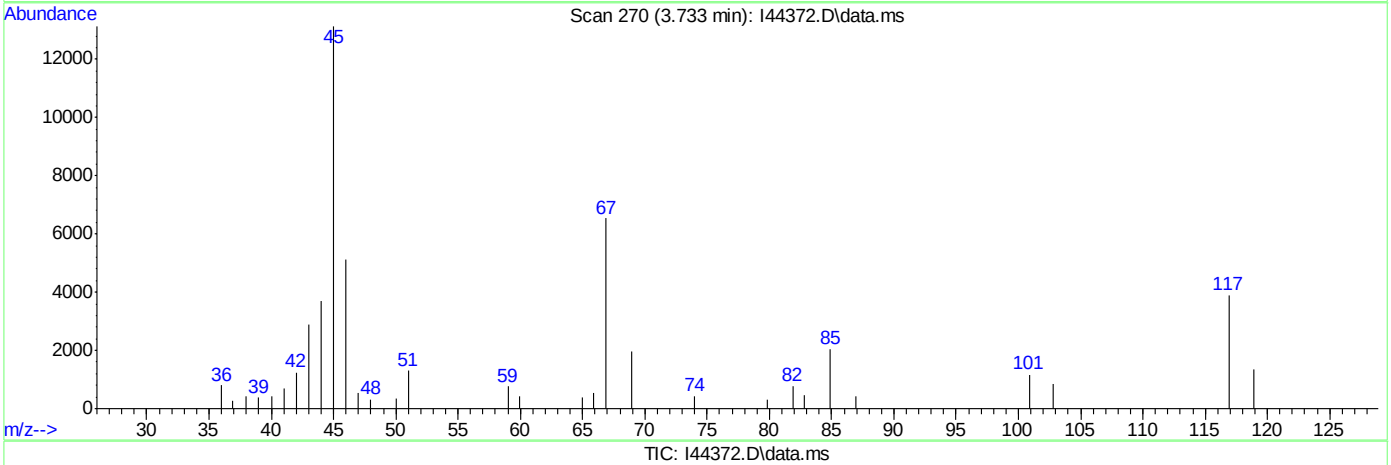
SGS ACCUTEST FA39742

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\DATA\122216\
Data File : I44372.D
Acq On : 22 Dec 2016 1:20 pm
Operator : WILFREDO
Sample : ICV1214-5 Inst : MSVOA16
Misc : MS35881,VI1214,,,,,
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Dec 23 09:06:36 2016
Quant Method : C:\msdchem\2\METHODS\I-DEC22.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Dec 23 08:49:58 2016
Response via : Initial Calibration





TIC: I44372.D\data.ms

(107) Ethanol

3.733min (+0.006) 705.73ug/L m

response 80862

Ion	Exp%	Act%
45.00	100	100
46.00	37.40	38.98
0.00	0.00	0.00
0.00	0.00	0.00

SGS ACCUTEST FA39742

Manual Integrations APPROVED (compounds with "m" flag)
Juan Garcia
12/28/16 16:26

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\122816\
Data File : I44535.D
Acq On : 28 Dec 2016 8:43 am
Operator : WILFREDO
Sample : CC1214-5 Inst : MSVOA16
Misc : MS35920,VI1222,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Dec 28 09:57:13 2016
Quant Method : C:\msdchem\2\METHODS\I-DEC22.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Dec 23 09:02:35 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.110	96	2294697	50.00	ug/L	0.00
56) Chlorobenzene-d5	10.225	117	1576548	50.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	12.591	152	765622	50.00	ug/L	0.00
106) Tert Butyl Alcohol-d10	4.690	65	196280	250.00	ug/L	0.00
System Monitoring Compounds						
36) Dibromofluoromethane	6.275	113	571788	49.36	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 98.72%			
46) 1,2-Dichloroethane-d4	6.830	65	767571	46.92	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 93.84%			
57) Toluene-d8	8.671	98	2141502	49.68	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 99.36%			
79) 4-Bromofluorobenzene	11.439	174	556005	49.86	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 99.72%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.264	85	449890	29.43	ug/L	98
3) Chloromethane	2.477	50	778192	33.76	ug/L	98
4) 1,3-Butadiene	2.605	39	483395	30.30	ug/L	99
5) Vinyl Chloride	2.599	62	608843	34.63	ug/L	100
6) Bromomethane	2.971	94	176644	35.21	ug/L	99
7) Chloroethane	3.129	64	236698	38.40	ug/L	98
8) Trichlorofluoromethane	3.288	101	643489	38.18	ug/L	100
9) Ethyl Ether	3.580	59	487438	36.22	ug/L	97
10) 1,2-Dichlorotrifluoroe...	3.818	67	569007m	36.63	ug/L	
11) 1,1-Dichloroethene	3.818	61	797831	36.09	ug/L	98
12) Freon 113	3.885	101	436224	36.13	ug/L	99
13) Carbon Disulfide	3.879	76	1426145	37.58	ug/L	97
14) Iodomethane	3.983	142	638387	37.40	ug/L	98
15) Allyl chloride	4.318	41	766087	37.93	ug/L	98
16) Methylene Chloride	4.428	49	782235	36.94	ug/L	98
17) Acetone	4.464	43	658084	190.20	ug/L	98
18) Methyl acetate	4.586	43	1651012	181.73	ug/L	99
19) trans-1,2-Dichloroethene	4.605	61	760821	36.52	ug/L	97
20) Hexane	4.684	56	565509	34.78	ug/L	98
21) Methyl Tert Butyl Ether	4.702	73	1189842	37.41	ug/L	99
22) Acetonitrile	4.958	41	421499	382.98	ug/L	100
23) Di-isopropyl ether	5.080	45	1869847	37.61	ug/L	98
24) Chloroprene	5.226	53	924166	40.60	ug/L	99
25) 1,1-Dichloroethane	5.245	63	923878	37.65	ug/L	99
26) Acrylonitrile	5.281	53	978023	197.15	ug/L	98
27) ETBE	5.464	59	1702767	38.60	ug/L	99
28) Vinyl acetate	5.470	43	6323870	211.70	ug/L	100
29) cis-1,2-Dichloroethene	5.812	96	471703	38.35	ug/L	99
30) 2,2-Dichloropropane	5.928	77	472183	39.27	ug/L	100
31) Bromochloromethane	6.025	128	227295	39.78	ug/L	93
32) Cyclohexane	6.056	56	1002728	37.18	ug/L	98
33) Chloroform	6.080	83	855495	36.67	ug/L	99
34) Ethyl acetate	6.171	43	2403623	186.17	ug/L	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\122816\
Data File : I44535.D
Acq On : 28 Dec 2016 8:43 am
Operator : WILFREDO
Sample : CC1214-5 Inst : MSVOA16
Misc : MS35920,VI1222,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Dec 28 09:57:13 2016
Quant Method : C:\msdchem\2\METHODS\I-DEC22.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Dec 23 09:02:35 2016
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
35)	Tetrahydrofuran	6.263	42	123991	35.82	ug/L	98
37)	Carbon Tetrachloride	6.263	117	541861	39.49	ug/L	98
38)	1,1,1-Trichloroethane	6.324	97	703987	38.38	ug/L	99
39)	2-Butanone	6.379	43	1016088	201.89	ug/L	98
40)	1,1-Dichloropropene	6.452	75	636427	38.71	ug/L	97
41)	tert-Butyl formate	6.531	59	4141192	461.74	ug/L	97
42)	Propionitrile	6.683	54	709647	383.12	ug/L	84
43)	Methacrylonitrile	6.714	41	2783287	366.89	ug/L	99
44)	Benzene	6.702	78	1666654	38.13	ug/L	93
45)	TAME	6.787	73	1189826	38.87	ug/L	97
47)	1,2-Dichloroethane	6.897	62	690928	35.24	ug/L	98
48)	Trichloroethene	7.293	95	470623	36.81	ug/L	98
49)	Methylcyclohexane	7.305	83	815747	38.19	ug/L	98
50)	Dibromomethane	7.720	93	272329	37.96	ug/L	98
51)	1,2-Dichloropropane	7.805	63	524711	38.40	ug/L	100
52)	Bromodichloromethane	7.860	83	601689	42.13	ug/L	99
53)	Methyl methacrylate	7.982	41	362536	34.84	ug/L	97
54)	2-Chloroethyl vinyl ether	8.390	63	1624324	195.58	ug/L	99
55)	cis-1,3-Dichloropropene	8.482	75	712721	37.30	ug/L	98
58)	Toluene	8.726	91	1681440	37.79	ug/L	99
59)	2-Nitropropane	8.927	41	498999	169.21	ug/L	99
60)	4-Methyl-2-pentanone	9.061	43	2462449	198.72	ug/L	99
61)	trans-1,3-Dichloropropene	9.122	75	601563	37.34	ug/L	97
62)	Tetrachloroethene	9.128	166	407479	34.21	ug/L	99
63)	Ethyl methacrylate	9.244	69	542933	36.52	ug/L	96
64)	1,1,2-Trichloroethane	9.281	83	333759	37.88	ug/L	98
65)	Dibromochloromethane	9.476	129	391354	37.09	ug/L	97
66)	1,3-Dichloropropane	9.561	76	698386	38.31	ug/L	95
67)	1,2-Dibromoethane	9.732	107	366900	39.79	ug/L	97
68)	2-hexanone	9.884	43	1728608	194.00	ug/L	98
69)	1-Chlorohexane	10.189	91	658604	40.98	ug/L	96
70)	Ethylbenzene	10.250	91	1914971	38.21	ug/L	99
71)	Chlorobenzene	10.244	112	1188698	37.83	ug/L	99
72)	1,1,1,2-Tetrachloroethane	10.293	131	380349	40.62	ug/L	99
73)	m,p-Xylene	10.390	91	3041049	79.06	ug/L	100
74)	o-Xylene	10.829	91	1608976	40.43	ug/L	99
75)	Styrene	10.878	104	1095569	36.51	ug/L	99
76)	Bromoform	10.927	173	202562	37.81	ug/L	99
77)	Isopropylbenzene	11.134	105	1918391	40.91	ug/L	99
80)	cis-1,4-Dichloro-2-butene	11.481	53	91612	53.10	ug/L	93
81)	n-Propylbenzene	11.554	91	2406858	38.98	ug/L	100
82)	Bromobenzene	11.561	156	425669	38.58	ug/L	100
83)	1,1,2,2-Tetrachloroethane	11.615	83	504326	37.10	ug/L	100
84)	1,3,5-Trimethylbenzene	11.743	105	1553393	40.95	ug/L	99
85)	2-Chlorotoluene	11.737	91	1606443	38.90	ug/L	100
86)	trans-1,4-Dichloro-2-B...	11.798	53	112325	48.57	ug/L	96
87)	1,2,3-Trichloropropane	11.768	110	132766	37.66	ug/L	95
88)	Cyclohexanone	11.829	55	109390	201.18	ug/L	99
89)	4-Chlorotoluene	11.902	91	1475724	39.29	ug/L	99
90)	tert-Butylbenzene	12.079	91	970021	38.46	ug/L	98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\122816\
Data File : I44535.D
Acq On : 28 Dec 2016 8:43 am
Operator : WILFREDO
Sample : CC1214-5 Inst : MSVOA16
Misc : MS35920,VI1222,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Dec 28 09:57:13 2016
Quant Method : C:\msdchem\2\METHODS\I-DEC22.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Dec 23 09:02:35 2016
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
91)	a-Methyl styrene	12.006	118	874266	37.11	ug/L		99
92)	1,2,4-Trimethylbenzene	12.146	105	1514482	40.40	ug/L		99
93)	Pentachloroethane	12.121	167	255525	50.56	ug/L		99
94)	sec-Butylbenzene	12.262	105	2116746	40.05	ug/L		100
95)	4-Isopropyltoluene	12.402	119	1552951	36.43	ug/L		99
96)	1,3-Dichlorobenzene	12.518	146	882973	39.68	ug/L		99
97)	1,4-Dichlorobenzene	12.603	146	896372	38.70	ug/L		98
98)	n-Butylbenzene	12.841	92	976501	36.81	ug/L		99
99)	Benzyl Chloride	12.847	126	171527	40.01	ug/L	#	93
100)	1,2-Dichlorobenzene	13.048	146	834527	38.86	ug/L		99
101)	1,2-Dibromo-3-Chloropr...	13.828	75	70216	32.89	ug/L		98
102)	Hexachlorobutadiene	14.414	225	218545	38.63	ug/L		100
103)	1,2,4-Trichlorobenzene	14.450	180	515309	36.58	ug/L		99
104)	Naphthalene	14.731	128	1088361	34.66	ug/L		100
105)	1,2,3-Trichlorobenzene	14.889	180	455604	40.58	ug/L		100
107)	Ethanol	3.727	45	84228m	781.33	ug/L		
108)	Acrolein	4.166	56	414311	223.01	ug/L		100
109)	Tert Butyl Alcohol	4.763	59	369010	375.88	ug/L		93
110)	Isobutyl alcohol	6.836	43	338850	799.27	ug/L		96
111)	Tert Amyl Alcohol	6.946	59	313662	408.60	ug/L		100
112)	1,4-Dioxane	8.049	88	67676m	788.71	ug/L		
113)	3,3-Dimethyl-1-butanol	9.841	57	1933943	2011.28	ug/L		99

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

7.6.9

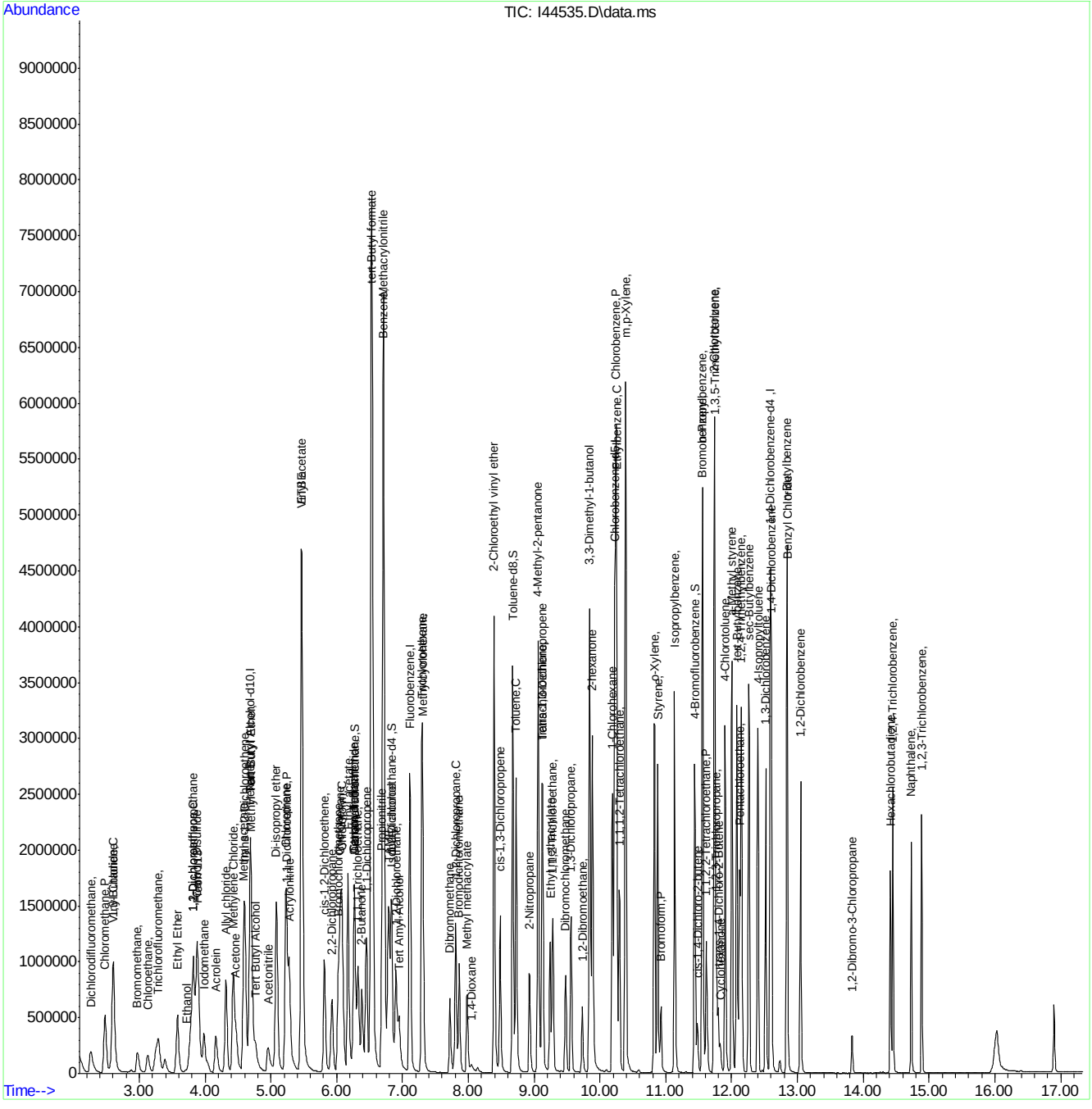
7

SGS ACCUTEST FA39742

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\122816\
Data File : I44535.D
Acq On : 28 Dec 2016 8:43 am
Operator : WILFREDO
Sample : CC1214-5 Inst : MSVOA16
Misc : MS35920,VI1222,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Dec 28 09:57:13 2016
Quant Method : C:\msdchem\2\METHODS\I-DEC22.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Dec 23 09:02:35 2016
Response via : Initial Calibration



SGS ACCUTEST FA39742

Manual Integration Approval Summary

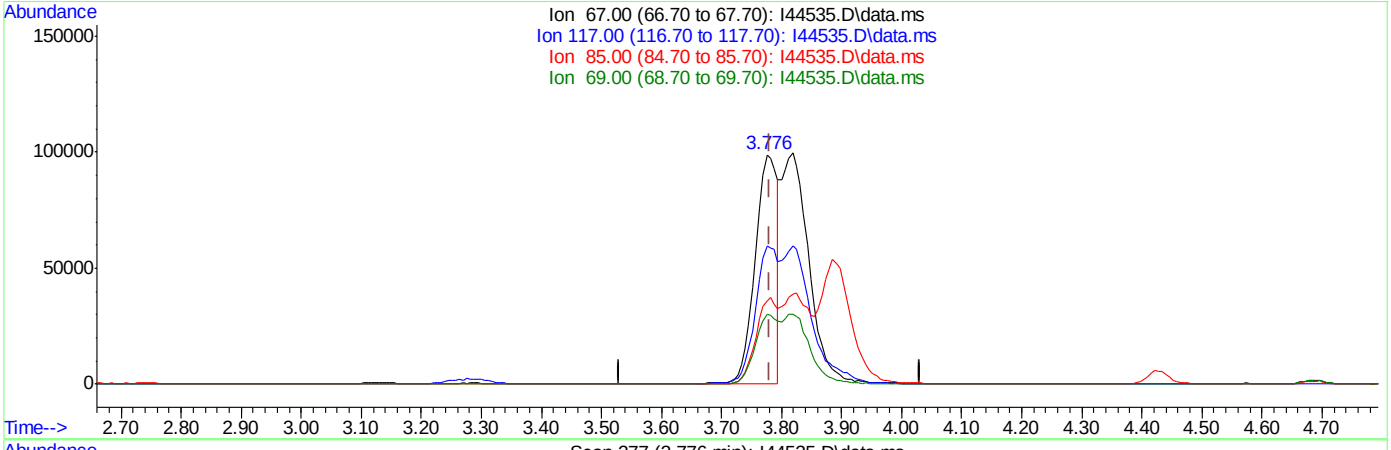
Sample Number:	VI1222-CC1214	**Method:**	SW846 8260B
Lab FileID:	I44535.D	**Analyst approved:**	12/28/16 09:59 Wilfredo Vazquez
Injection Time:	12/28/16 08:43	**Supervisor approved:**	12/28/16 16:26 Juan Garcia

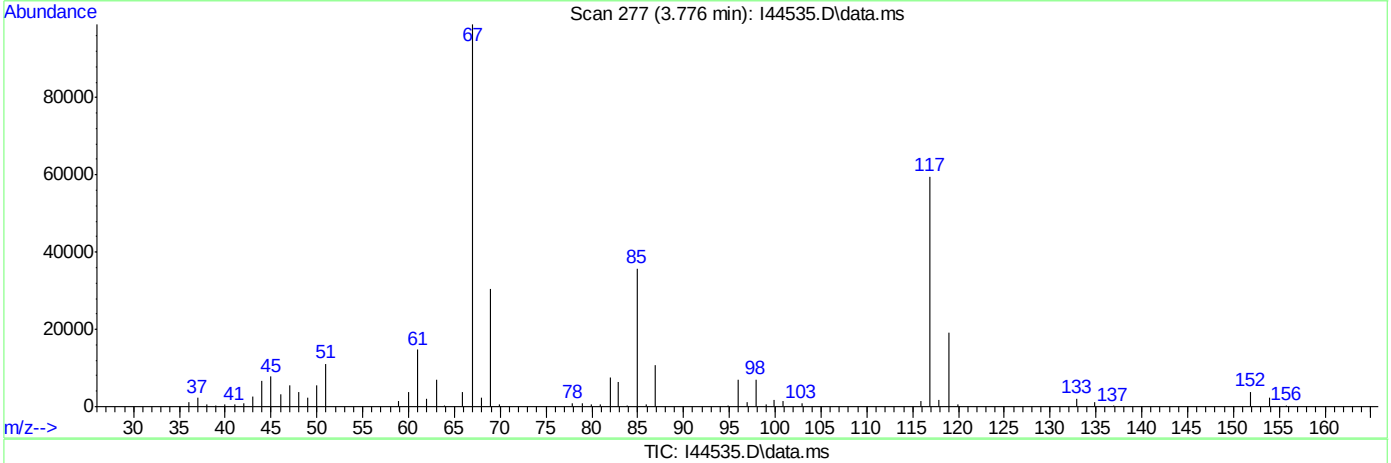
Parameter	CAS	Sig#	R.T. (min.)	Reason
Ethyl Alcohol	64-17-5		3.73	Poor instrument integration
1,2-Dichlorotrifluoroethane	354-23-4		3.82	Split peak
1,4-Dioxane	123-91-1		8.05	Poor instrument integration

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\DATA\122816\
Data File : I44535.D
Acq On : 28 Dec 2016 8:43 am
Operator : WILFREDO
Sample : CC1214-5 Inst : MSVOA16
Misc : MS35920,VI1222,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Dec 28 09:56:25 2016
Quant Method : C:\msdchem\2\METHODS\I-DEC22.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Dec 23 09:02:35 2016
Response via : Initial Calibration





(10) 1,2-Dichlorotrifluoroethane

3.776min (-0.006) 16.54ug/L

response 256909

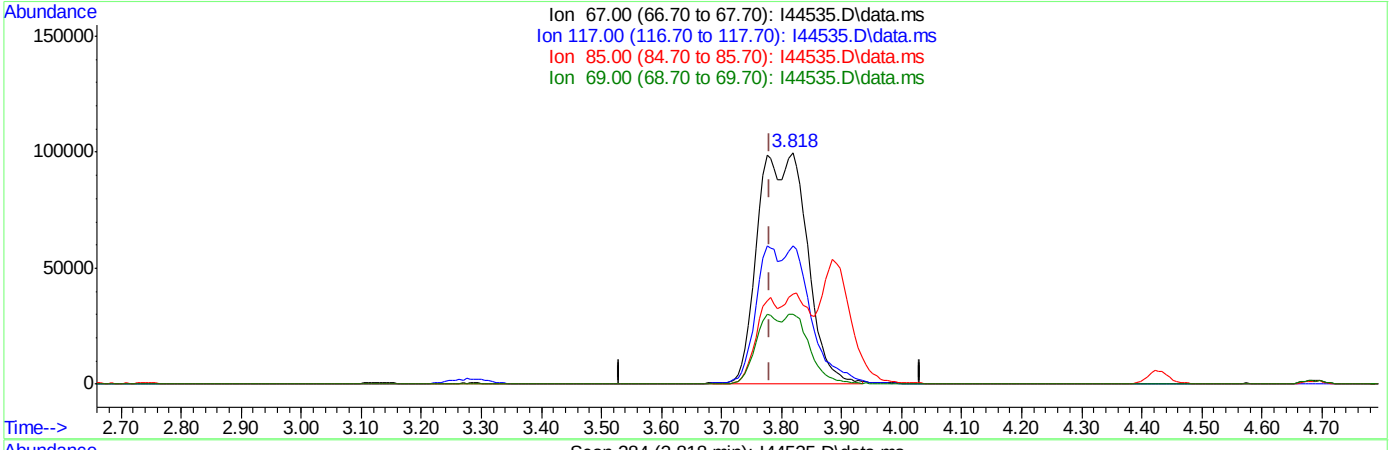
Ion	Exp%	Act%
67.00	100	100
117.00	57.70	60.22
85.00	36.80	36.14
69.00	29.70	30.70

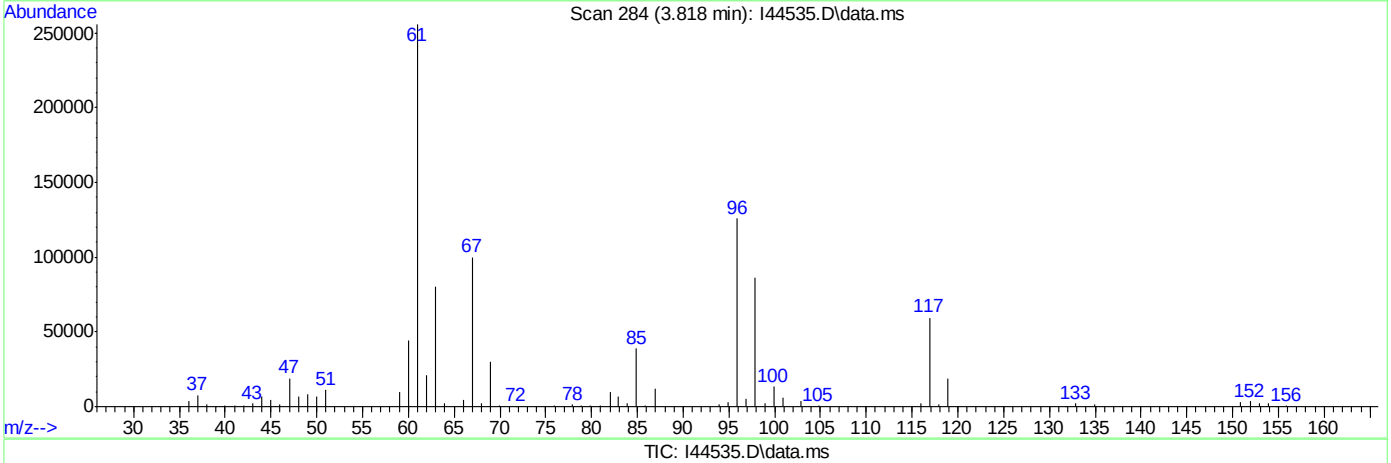
SGS ACCUTEST FA39742

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\DATA\122816\
Data File : I44535.D
Acq On : 28 Dec 2016 8:43 am
Operator : WILFREDO
Sample : CC1214-5 Inst : MSVOA16
Misc : MS35920,VI1222,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Dec 28 09:56:25 2016
Quant Method : C:\msdchem\2\METHODS\I-DEC22.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Dec 23 09:02:35 2016
Response via : Initial Calibration





(10) 1,2-Dichlorotrifluoroethane

3.818min (+0.037) 36.63ug/L m

response 569007

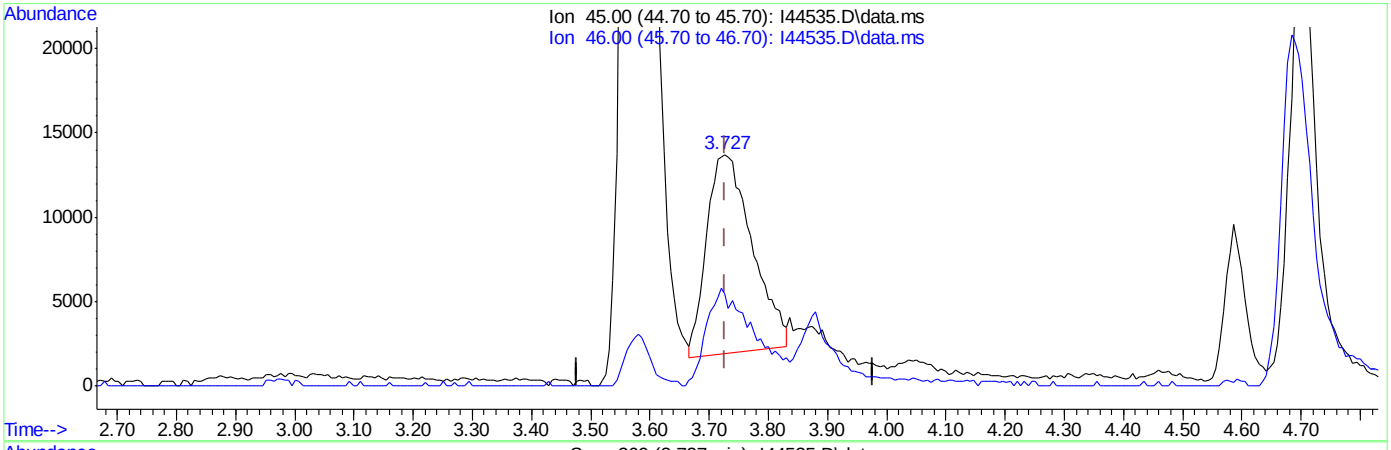
Ion	Exp%	Act%
67.00	100	100
117.00	57.70	59.54
85.00	36.80	38.82
69.00	29.70	30.12

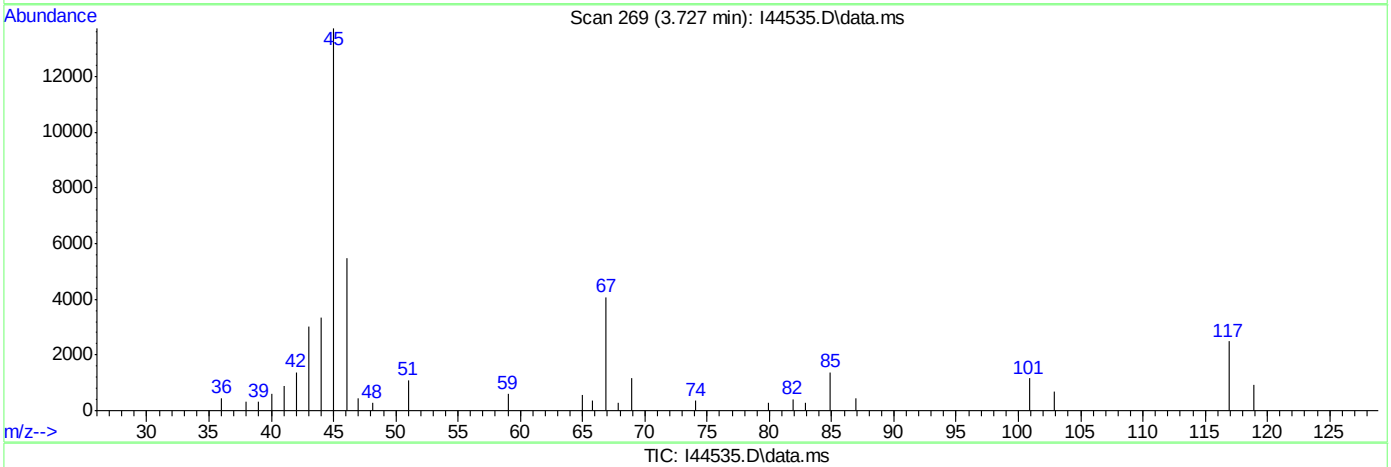
SGS ACCUTEST FA39742

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\DATA\122816\
Data File : I44535.D
Acq On : 28 Dec 2016 8:43 am
Operator : WILFREDO
Sample : CC1214-5 Inst : MSVOA16
Misc : MS35920,VI1222,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Dec 28 09:56:25 2016
Quant Method : C:\msdchem\2\METHODS\I-DEC22.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Dec 23 09:02:35 2016
Response via : Initial Calibration





TIC: I44535.D\data.ms

(107) Ethanol

3.727min (-0.000) 583.26ug/L

response 62875

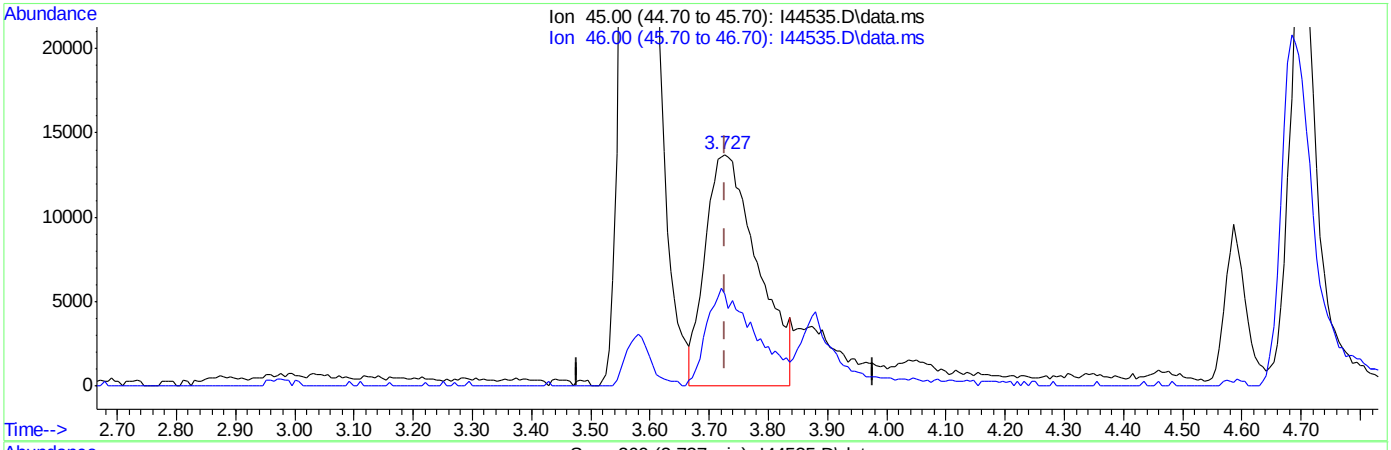
Ion	Exp%	Act%
45.00	100	100
46.00	37.40	45.24
0.00	0.00	0.00
0.00	0.00	0.00

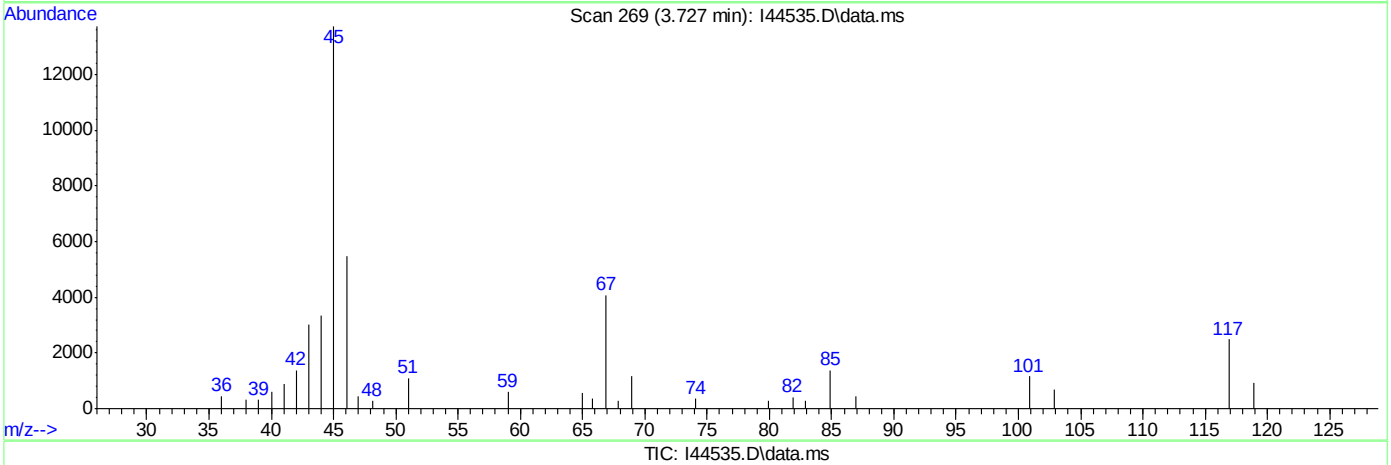
SGS ACCUTEST FA39742

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\DATA\122816\
Data File : I44535.D
Acq On : 28 Dec 2016 8:43 am
Operator : WILFREDO
Sample : CC1214-5 Inst : MSVOA16
Misc : MS35920,VI1222,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Dec 28 09:56:25 2016
Quant Method : C:\msdchem\2\METHODS\I-DEC22.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Dec 23 09:02:35 2016
Response via : Initial Calibration





TIC: I44535.D\data.ms

(107) Ethanol

3.727min (-0.000) 781.33ug/L m

response 84228

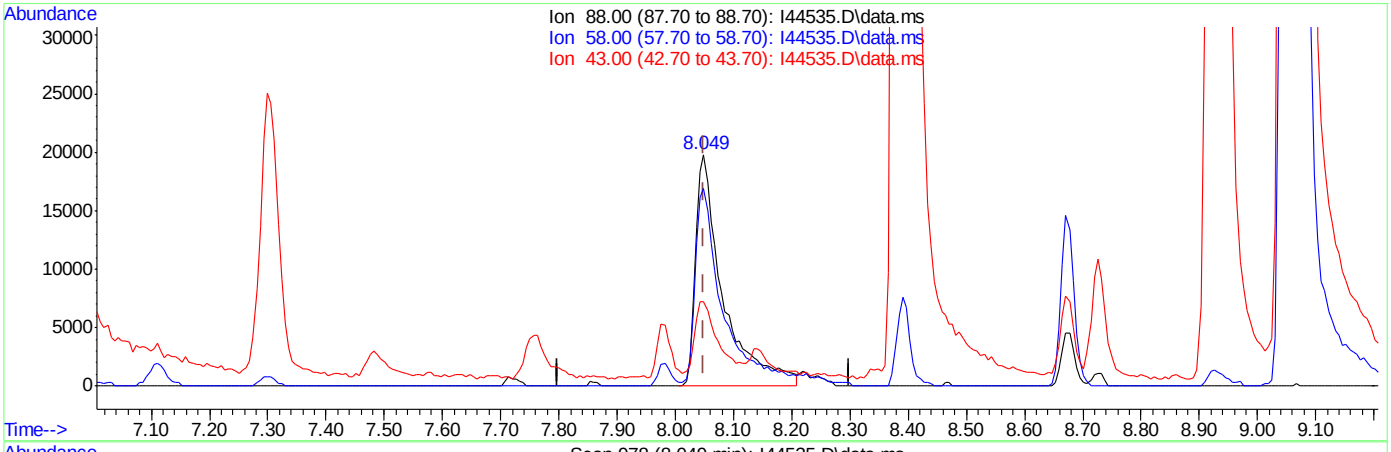
Ion	Exp%	Act%
45.00	100	100
46.00	37.40	39.91
0.00	0.00	0.00
0.00	0.00	0.00

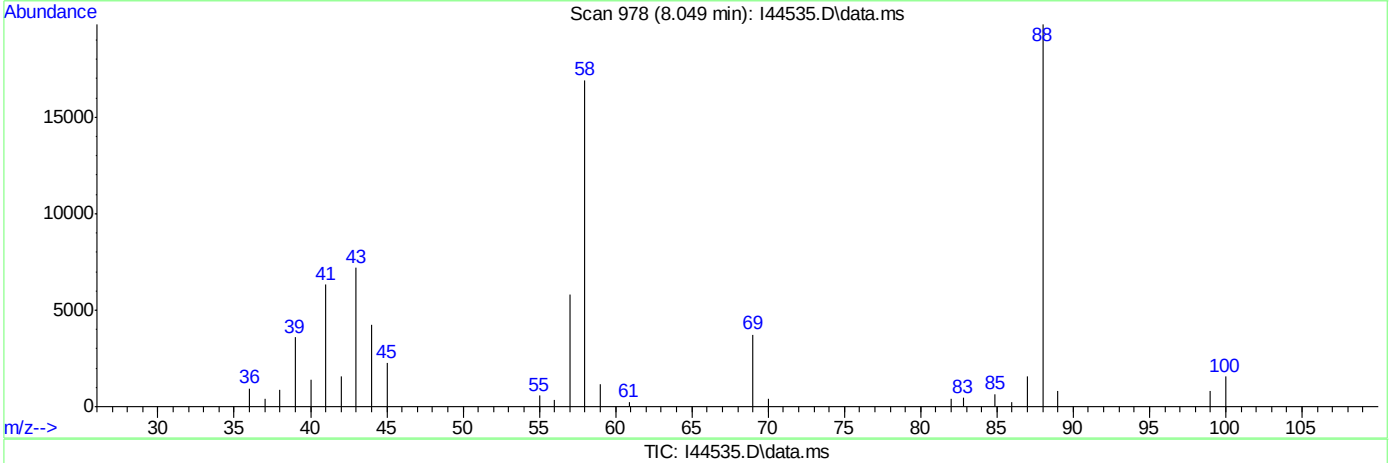
SGS ACCUTEST FA39742

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\DATA\122816\
Data File : I44535.D
Acq On : 28 Dec 2016 8:43 am
Operator : WILFREDO
Sample : CC1214-5 Inst : MSVOA16
Misc : MS35920,VI1222,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Dec 28 09:56:25 2016
Quant Method : C:\msdchem\2\METHODS\I-DEC22.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Dec 23 09:02:35 2016
Response via : Initial Calibration





TIC: I44535.D\data.ms

(112) 1,4-Dioxane

8.049min (+0.000) 754.24ug/L

response 64718

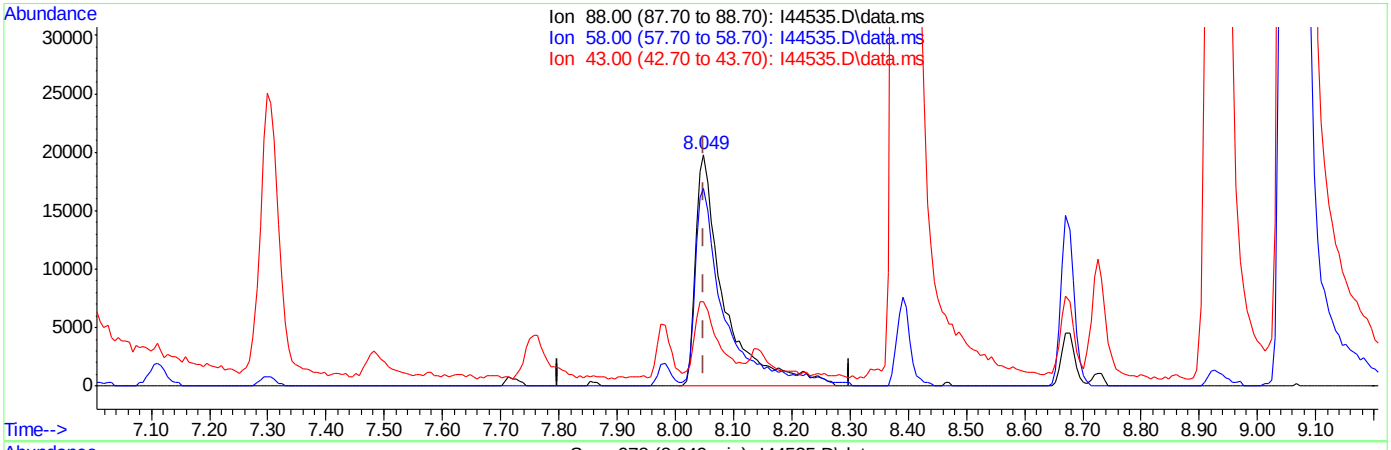
Ion	Exp%	Act%
88.00	100	100
58.00	90.10	83.74
43.00	33.30	29.95
0.00	0.00	0.00

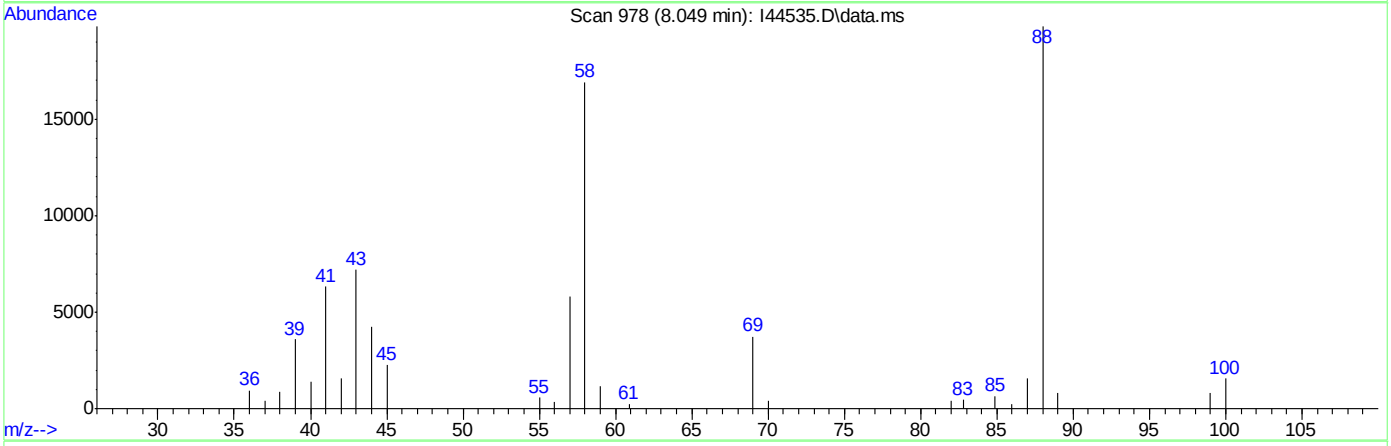
SGS ACCUTEST FA39742

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\DATA\122816\
Data File : I44535.D
Acq On : 28 Dec 2016 8:43 am
Operator : WILFREDO
Sample : CC1214-5 Inst : MSVOA16
Misc : MS35920,VI1222,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Dec 28 09:56:25 2016
Quant Method : C:\msdchem\2\METHODS\I-DEC22.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Dec 23 09:02:35 2016
Response via : Initial Calibration





TIC: I44535.D\data.ms

(112) 1,4-Dioxane

8.049min (+0.000) 788.71ug/L m

response 67676

Ion	Exp%	Act%
88.00	100	100
58.00	90.10	85.34
43.00	33.30	36.28
0.00	0.00	0.00

SGS ACCUTEST FA39742

Manual Integrations APPROVED (compounds with "m" flag)
Juan Garcia
12/29/16 16:48

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\122816\
Data File : I44561.D
Acq On : 28 Dec 2016 8:09 pm
Operator : WILFREDO
Sample : ECC1214-5 Inst : MSVOA16
Misc : MS35941,VI1222,,,,,
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Dec 29 08:28:54 2016
Quant Method : C:\msdchem\2\METHODS\I-DEC22.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Dec 23 09:02:35 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.116	96	1743789	50.00	ug/L	0.00
56) Chlorobenzene-d5	10.225	117	1204731	50.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	12.591	152	589250	50.00	ug/L	0.00
106) Tert Butyl Alcohol-d10	4.690	65	157549	250.00	ug/L	0.00
System Monitoring Compounds						
36) Dibromofluoromethane	6.275	113	441224	50.12	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 100.24%			
46) 1,2-Dichloroethane-d4	6.830	65	657332	52.87	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 105.74%			
57) Toluene-d8	8.677	98	1633437	49.58	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 99.16%			
79) 4-Bromofluorobenzene	11.439	174	415292	48.39	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 96.78%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.270	85	476759	41.04	ug/L	99
3) Chloromethane	2.483	50	805108	45.96	ug/L	98
4) 1,3-Butadiene	2.611	39	562902	46.43	ug/L	91
5) Vinyl Chloride	2.605	62	659147	49.33	ug/L	99
6) Bromomethane	2.983	94	177860	50.22	ug/L	99
7) Chloroethane	3.135	64	246762	77.28	ug/L	98
8) Trichlorofluoromethane	3.294	101	658676	51.43	ug/L	98
9) Ethyl Ether	3.586	59	432274	42.27	ug/L	93
10) 1,2-Dichlorotrifluoroe...	3.781	67	495296m	41.95	ug/L	
11) 1,1-Dichloroethene	3.818	61	718399	42.77	ug/L	96
12) Freon 113	3.897	101	367797	40.09	ug/L	96
13) Carbon Disulfide	3.879	76	1217875	42.23	ug/L	95
14) Iodomethane	3.989	142	490441	37.81	ug/L	98
15) Allyl chloride	4.318	41	634457	41.34	ug/L	98
16) Methylene Chloride	4.428	49	759876	47.22	ug/L	92
17) Acetone	4.470	43	583233	221.82	ug/L	95
18) Methyl acetate	4.592	43	1651482	239.22	ug/L	96
19) trans-1,2-Dichloroethene	4.611	61	669706	42.30	ug/L	98
20) Hexane	4.690	56	527771	42.71	ug/L	92
21) Methyl Tert Butyl Ether	4.708	73	974972	40.34	ug/L	93
22) Acetonitrile	4.958	41	417448	499.14	ug/L	98
23) Di-isopropyl ether	5.086	45	1744336	46.17	ug/L	98
24) Chloroprene	5.226	53	771672	44.61	ug/L	97
25) 1,1-Dichloroethane	5.251	63	806449	43.25	ug/L	100
26) Acrylonitrile	5.281	53	831924	220.68	ug/L	99
27) ETBE	5.470	59	1455440	43.42	ug/L	98
28) Vinyl acetate	5.470	43	5457946	240.44	ug/L	100
29) cis-1,2-Dichloroethene	5.818	96	385184	41.21	ug/L	96
30) 2,2-Dichloropropane	5.934	77	365260	39.97	ug/L	98
31) Bromochloromethane	6.025	128	174088	40.09	ug/L #	86
32) Cyclohexane	6.062	56	892370	43.55	ug/L	94
33) Chloroform	6.086	83	735350	41.47	ug/L	98
34) Ethyl acetate	6.171	43	2241205	228.44	ug/L	99

SGS ACCUTEST FA39742

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\122816\
Data File : I44561.D
Acq On : 28 Dec 2016 8:09 pm
Operator : WILFREDO
Sample : ECC1214-5 Inst : MSVOA16
Misc : MS35941,VI1222,,,,,
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Dec 29 08:28:54 2016
Quant Method : C:\msdchem\2\METHODS\I-DEC22.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Dec 23 09:02:35 2016
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
35)	Tetrahydrofuran	6.269	42	124103	47.18	ug/L	94
37)	Carbon Tetrachloride	6.269	117	442550	42.45	ug/L	99
38)	1,1,1-Trichloroethane	6.330	97	582057	41.76	ug/L	98
39)	2-Butanone	6.385	43	951755	248.85	ug/L	95
40)	1,1-Dichloropropene	6.452	75	548831	43.93	ug/L	93
41)	tert-Butyl formate	6.531	59	3065568	449.80	ug/L	98
42)	Propionitrile	6.689	54	634175	450.54	ug/L	91
43)	Methacrylonitrile	6.714	41	2833872	491.57	ug/L	98
44)	Benzene	6.708	78	1413097	42.54	ug/L	92
45)	TAME	6.793	73	973046	41.83	ug/L	93
47)	1,2-Dichloroethane	6.903	62	629588	42.25	ug/L	98
48)	Trichloroethene	7.293	95	397157	40.88	ug/L	97
49)	Methylcyclohexane	7.305	83	674229	41.54	ug/L	93
50)	Dibromomethane	7.720	93	229961	42.18	ug/L	98
51)	1,2-Dichloropropane	7.811	63	463650	44.65	ug/L	96
52)	Bromodichloromethane	7.860	83	498452	45.93	ug/L	97
53)	Methyl methacrylate	7.982	41	328930	41.60	ug/L	94
54)	2-Chloroethyl vinyl ether	8.390	63	1333589	211.31	ug/L	91
55)	cis-1,3-Dichloropropene	8.482	75	593966	40.91	ug/L	93
58)	Toluene	8.726	91	1391130	40.91	ug/L	99
59)	2-Nitropropane	8.933	41	495086	219.69	ug/L	98
60)	4-Methyl-2-pentanone	9.061	43	2383558	251.72	ug/L	95
61)	trans-1,3-Dichloropropene	9.122	75	500006	40.62	ug/L	92
62)	Tetrachloroethene	9.128	166	407886	44.82	ug/L	98
63)	Ethyl methacrylate	9.244	69	428117	37.68	ug/L	89
64)	1,1,2-Trichloroethane	9.280	83	284149	42.20	ug/L	97
65)	Dibromochloromethane	9.476	129	305073	37.83	ug/L	98
66)	1,3-Dichloropropane	9.561	76	601286	43.16	ug/L	92
67)	1,2-Dibromoethane	9.732	107	300315	42.62	ug/L	99
68)	2-hexanone	9.884	43	1662653	244.19	ug/L	94
69)	1-Chlorohexane	10.189	91	522093	42.51	ug/L	85
70)	Ethylbenzene	10.250	91	1656893	43.27	ug/L	98
71)	Chlorobenzene	10.244	112	997420	41.54	ug/L	94
72)	1,1,1,2-Tetrachloroethane	10.292	131	317307	44.35	ug/L	99
73)	m,p-Xylene	10.390	91	2632927	89.58	ug/L	98
74)	o-Xylene	10.829	91	1358363	44.67	ug/L	99
75)	Styrene	10.878	104	908327	39.61	ug/L	97
76)	Bromoform	10.926	173	151922	37.11	ug/L	98
77)	Isopropylbenzene	11.134	105	1604700	44.78	ug/L	98
80)	cis-1,4-Dichloro-2-butene	11.481	53	61831	47.90	ug/L	95
81)	n-Propylbenzene	11.554	91	2069567	43.55	ug/L	98
82)	Bromobenzene	11.560	156	345651	40.70	ug/L	99
83)	1,1,2,2-Tetrachloroethane	11.615	83	448434	42.86	ug/L	99
84)	1,3,5-Trimethylbenzene	11.743	105	1305870	44.72	ug/L	99
85)	2-Chlorotoluene	11.737	91	1382584	43.50	ug/L	98
86)	trans-1,4-Dichloro-2-B...	11.798	53	86271	48.49	ug/L	89
87)	1,2,3-Trichloropropane	11.768	110	112559	41.49	ug/L	95
88)	Cyclohexanone	11.829	55	70485	171.06	ug/L	96
89)	4-Chlorotoluene	11.902	91	1255769	43.44	ug/L	98
90)	tert-Butylbenzene	12.079	91	851253	43.85	ug/L	96

SGS ACCUTEST FA39742

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\122816\
Data File : I44561.D
Acq On : 28 Dec 2016 8:09 pm
Operator : WILFREDO
Sample : ECC1214-5 Inst : MSVOA16
Misc : MS35941,VI1222,,,,,
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Dec 29 08:28:54 2016
Quant Method : C:\msdchem\2\METHODS\I-DEC22.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Dec 23 09:02:35 2016
Response via : Initial Calibration

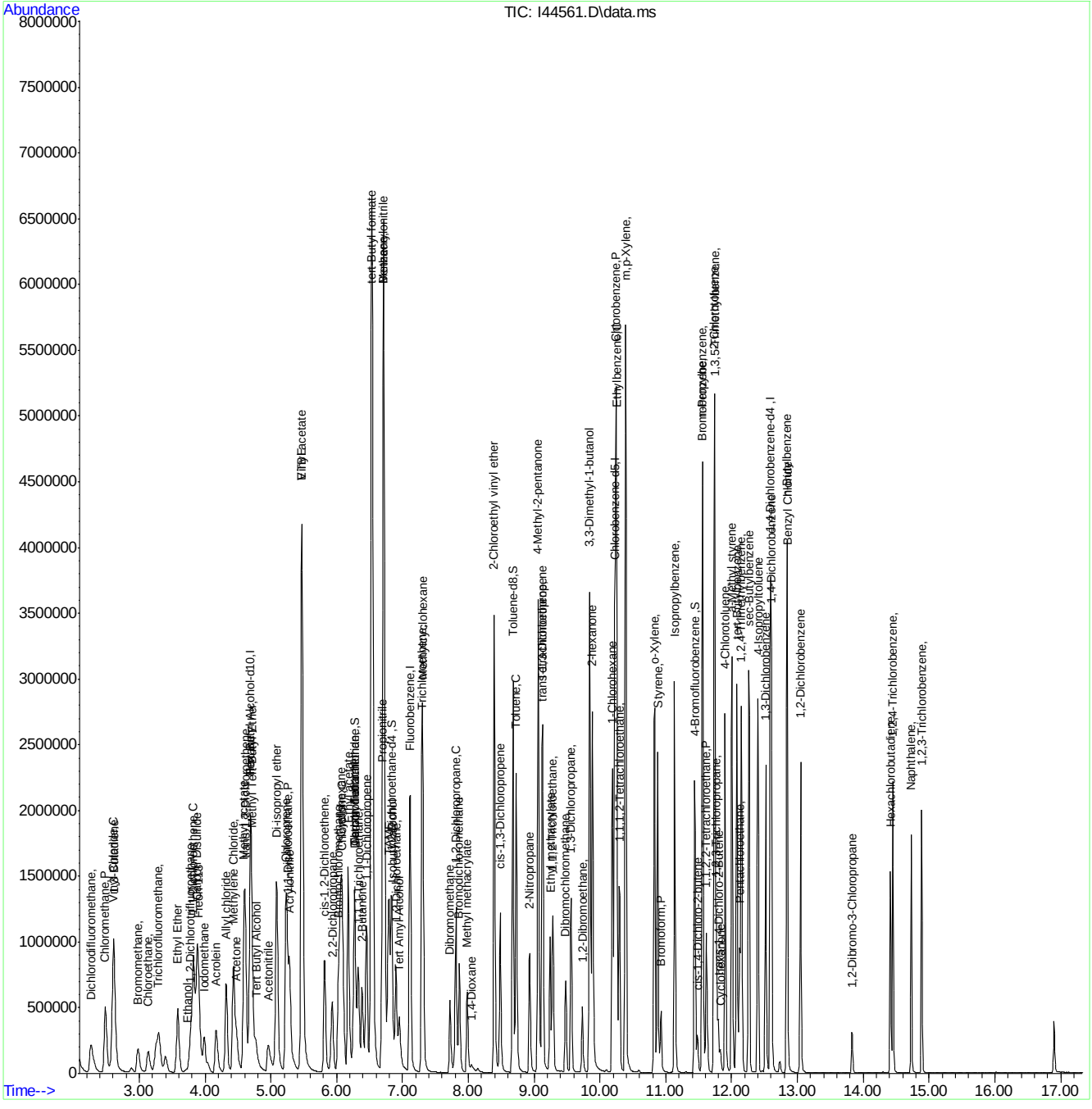
	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
91)	a-Methyl styrene	12.006	118	691505	38.13	ug/L		99
92)	1,2,4-Trimethylbenzene	12.146	105	1276353	44.24	ug/L		99
93)	Pentachloroethane	12.121	167	121110	31.13	ug/L		95
94)	sec-Butylbenzene	12.262	105	1786530	43.92	ug/L		99
95)	4-Isopropyltoluene	12.402	119	1329760	40.53	ug/L		98
96)	1,3-Dichlorobenzene	12.518	146	719975	42.04	ug/L		99
97)	1,4-Dichlorobenzene	12.603	146	738676	41.43	ug/L		98
98)	n-Butylbenzene	12.841	92	846447	41.45	ug/L		95
99)	Benzyl Chloride	12.847	126	121268	36.96	ug/L	#	64
100)	1,2-Dichlorobenzene	13.048	146	701551	42.45	ug/L		98
101)	1,2-Dibromo-3-Chloropr...	13.828	75	60984	37.11	ug/L		91
102)	Hexachlorobutadiene	14.414	225	175371	40.28	ug/L		97
103)	1,2,4-Trichlorobenzene	14.450	180	417649	38.52	ug/L		100
104)	Naphthalene	14.731	128	905567	37.47	ug/L		99
105)	1,2,3-Trichlorobenzene	14.889	180	369101	42.72	ug/L		99
107)	Ethanol	3.733	45	82757m	956.41	ug/L		
108)	Acrolein	4.172	56	409565	274.65	ug/L		99
109)	Tert Butyl Alcohol	4.775	59	322116	408.77	ug/L		95
110)	Isobutyl alcohol	6.842	43	335847	986.93	ug/L		89
111)	Tert Amyl Alcohol	6.952	59	244238	396.38	ug/L		92
112)	1,4-Dioxane	8.049	88	52499	762.25	ug/L		93
113)	3,3-Dimethyl-1-butanol	9.841	57	1593503	2064.63	ug/L		97

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\122816\
Data File : I44561.D
Acq On : 28 Dec 2016 8:09 pm
Operator : WILFREDO
Sample : ECC1214-5 Inst : MSVOA16
Misc : MS35941,VI1222,,,,,
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Dec 29 08:28:54 2016
Quant Method : C:\msdchem\2\METHODS\I-DEC22.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Dec 23 09:02:35 2016
Response via : Initial Calibration



SGS ACCUTEST FA39742

Manual Integration Approval Summary

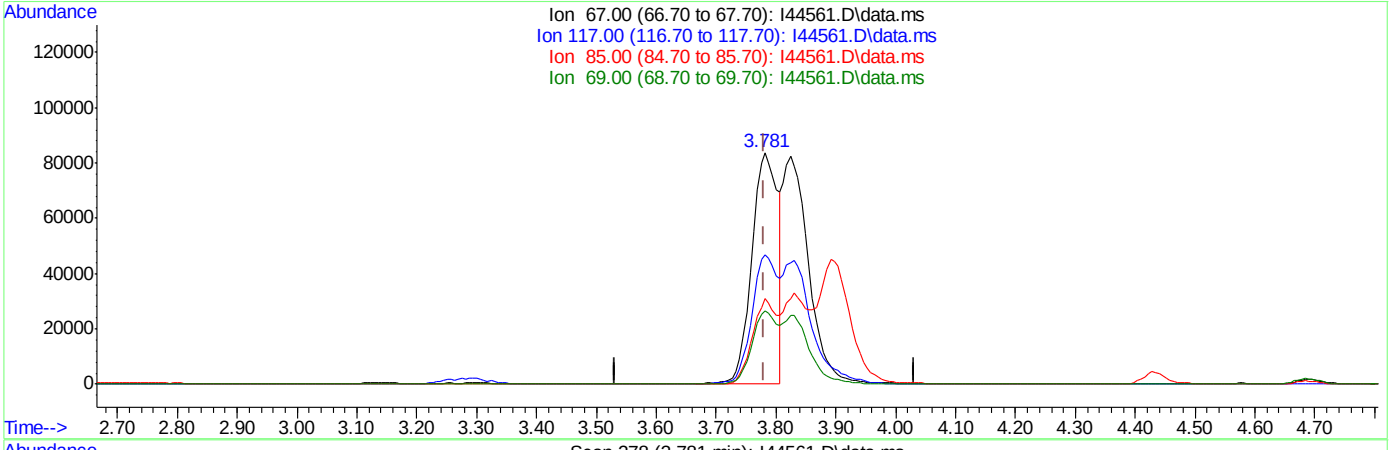
Sample Number:	VI1222-ECC1214	**Method:**	SW846 8260B
Lab FileID:	I44561.D	**Analyst approved:**	12/29/16 08:57 Wilfredo Vazquez
Injection Time:	12/28/16 20:09	**Supervisor approved:**	12/29/16 16:48 Juan Garcia

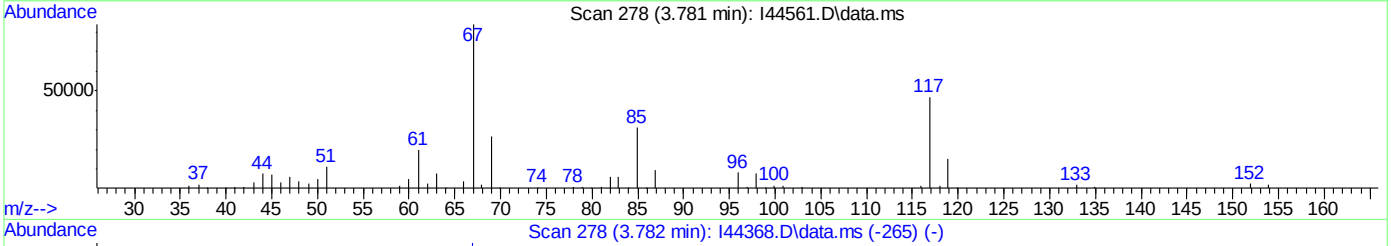
Parameter	CAS	Sig#	R.T. (min.)	Reason
Ethyl Alcohol	64-17-5		3.73	Poor instrument integration
1,2-Dichlorotrifluoroethane	354-23-4		3.78	Split peak

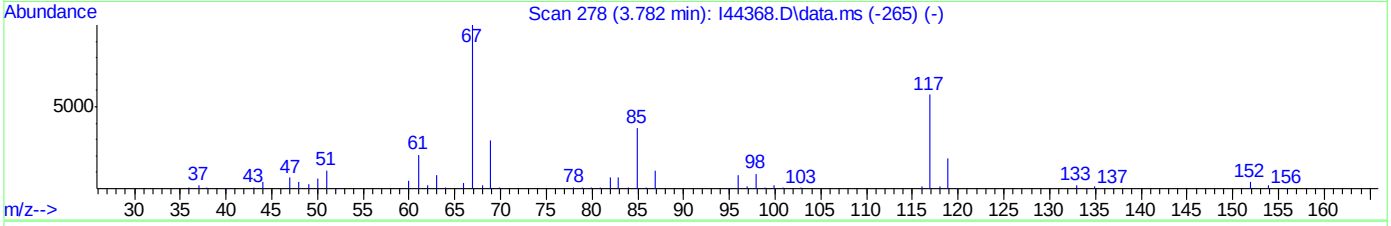
Quantitation Report (Qedit)

Data Path : C:\msdchem\2\DATA\122816\
Data File : I44561.D
Acq On : 28 Dec 2016 8:09 pm
Operator : WILFREDO
Sample : ECC1214-5 Inst : MSVOA16
Misc : MS35941,VI1222,,,,,
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Dec 29 08:02:28 2016
Quant Method : C:\msdchem\2\METHODS\I-DEC22.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Dec 23 09:02:35 2016
Response via : Initial Calibration







TIC: I44561.D\data.ms

(10) 1,2-Dichlorotrifluoroethane

3.781min (-0.000) 21.35ug/L

response 252040

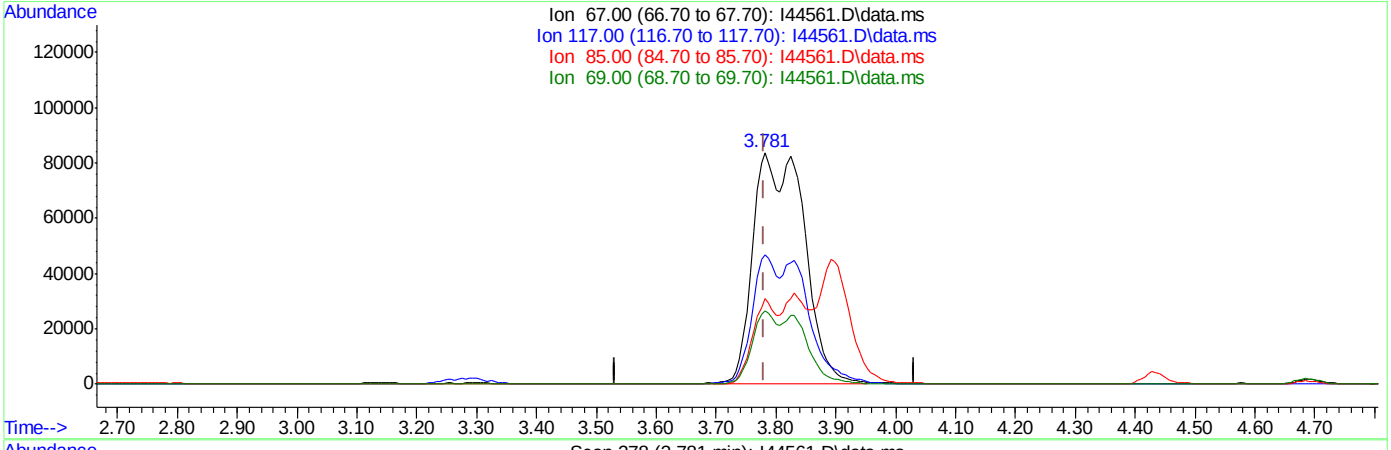
Ion	Exp%	Act%
67.00	100	100
117.00	57.70	55.72
85.00	36.80	37.08
69.00	29.70	31.60

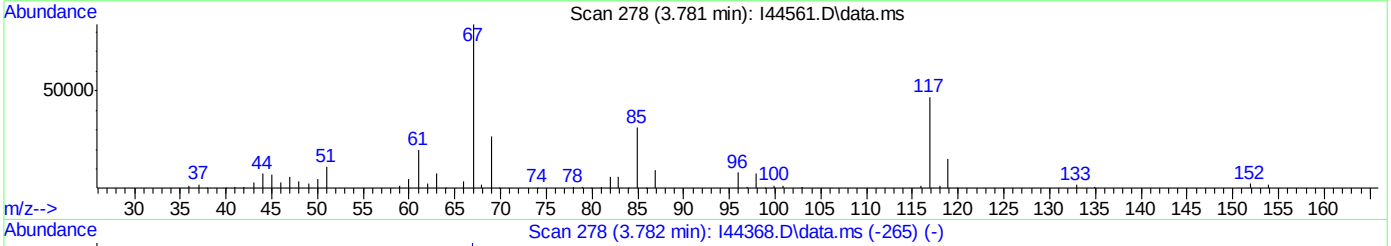
SGS ACCUTEST FA39742

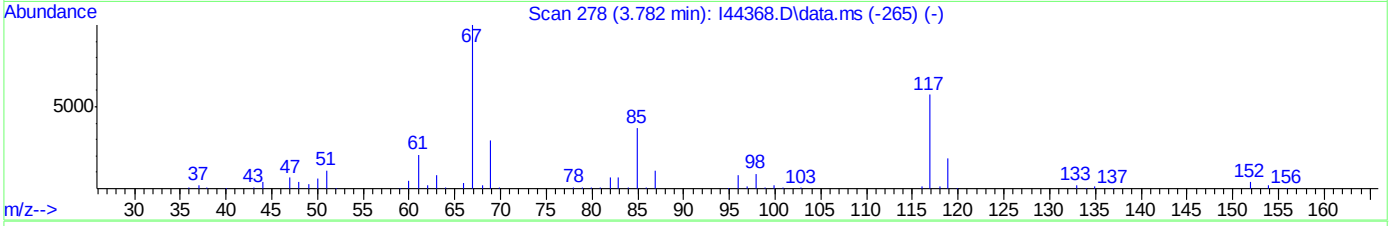
Quantitation Report (Qedit)

Data Path : C:\msdchem\2\DATA\122816\
Data File : I44561.D
Acq On : 28 Dec 2016 8:09 pm
Operator : WILFREDO
Sample : ECC1214-5 Inst : MSVOA16
Misc : MS35941,VI1222,,,,,
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Dec 29 08:02:28 2016
Quant Method : C:\msdchem\2\METHODS\I-DEC22.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Dec 23 09:02:35 2016
Response via : Initial Calibration







TIC: I44561.D\data.ms

(10) 1,2-Dichlorotrifluoroethane

3.781min (-0.000) 41.95ug/L m

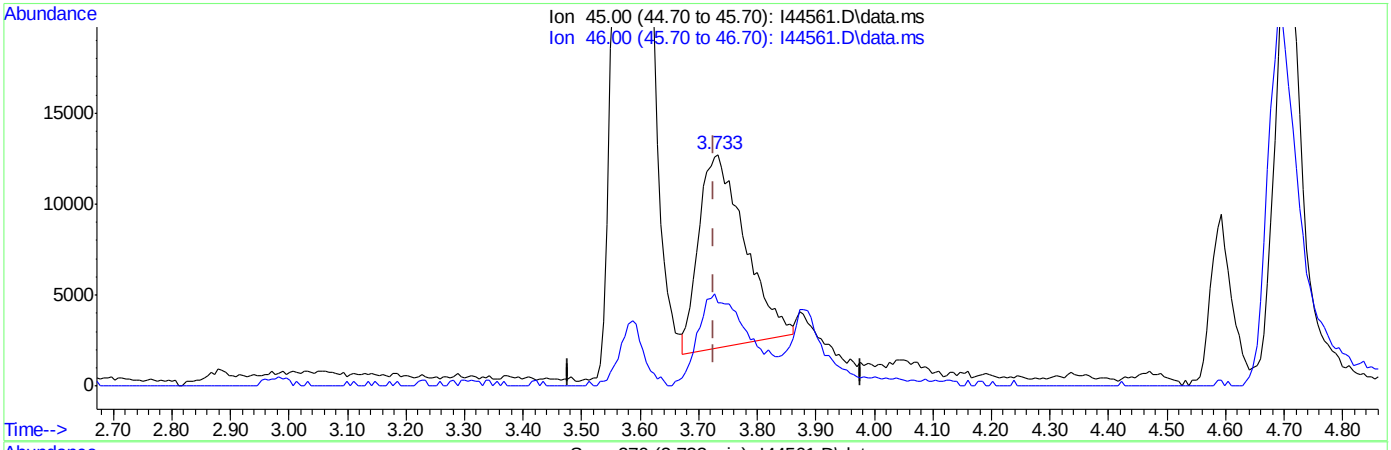
response 495296

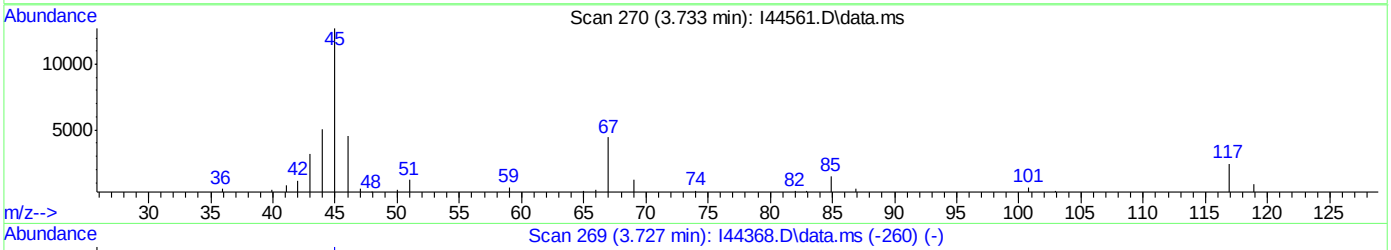
Ion	Exp%	Act%
67.00	100	100
117.00	57.70	55.72
85.00	36.80	37.08
69.00	29.70	31.60

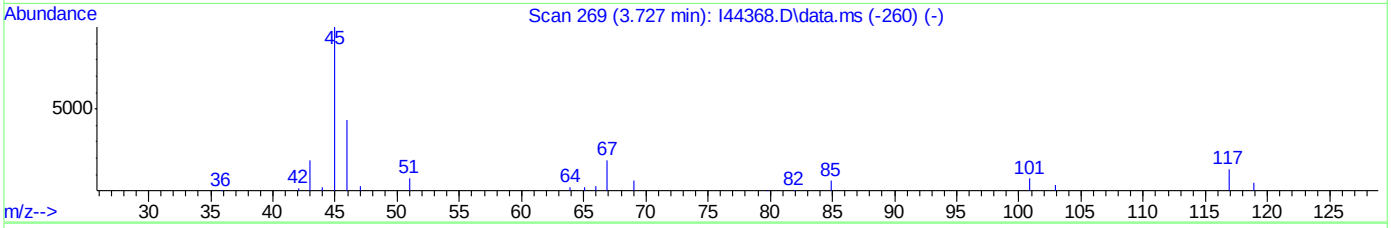
Quantitation Report (Qedit)

Data Path : C:\msdchem\2\DATA\122816\
Data File : I44561.D
Acq On : 28 Dec 2016 8:09 pm
Operator : WILFREDO
Sample : ECC1214-5 Inst : MSVOA16
Misc : MS35941,VI1222,,,,,
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Dec 29 08:02:28 2016
Quant Method : C:\msdchem\2\METHODS\I-DEC22.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Dec 23 09:02:35 2016
Response via : Initial Calibration







TIC: I44561.D\data.ms

(107) Ethanol

3.733min (+0.006) 672.08ug/L

response 58154

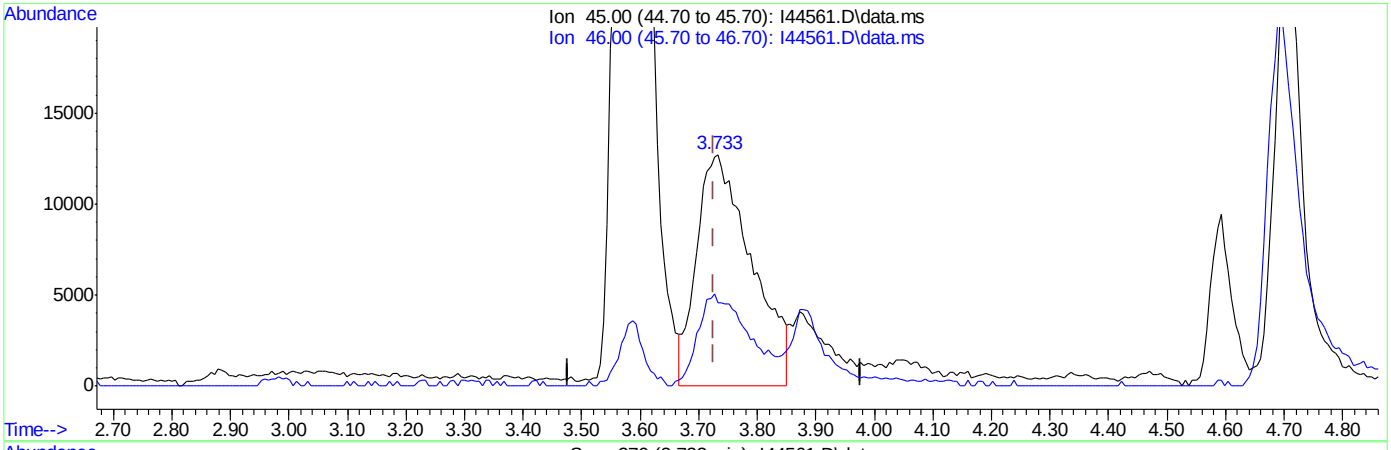
Ion	Exp%	Act%
45.00	100	100
46.00	37.40	41.62
0.00	0.00	0.00
0.00	0.00	0.00

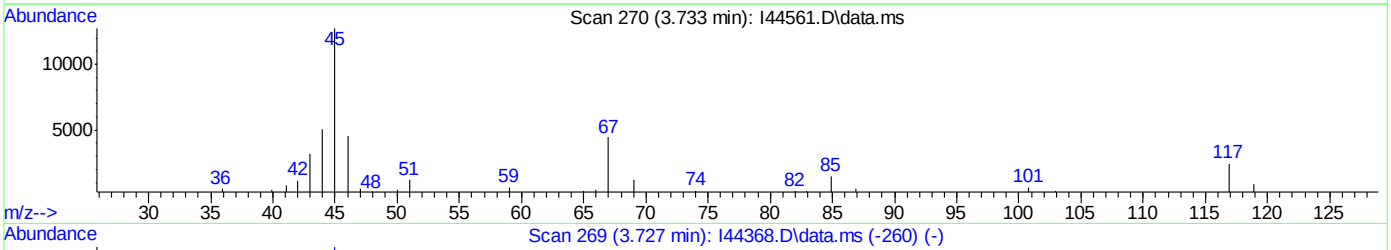
SGS ACCUTEST FA39742

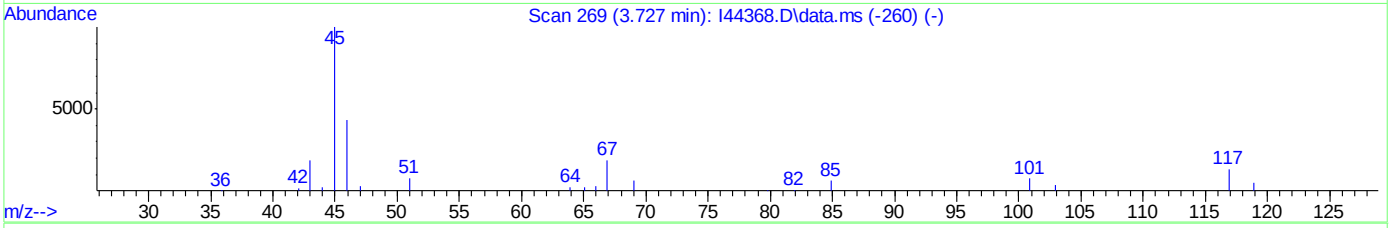
Quantitation Report (Qedit)

Data Path : C:\msdchem\2\DATA\122816\
Data File : I44561.D
Acq On : 28 Dec 2016 8:09 pm
Operator : WILFREDO
Sample : ECC1214-5 Inst : MSVOA16
Misc : MS35941,VI1222,,,,,
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Dec 29 08:02:28 2016
Quant Method : C:\msdchem\2\METHODS\I-DEC22.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Dec 23 09:02:35 2016
Response via : Initial Calibration







TIC: I44561.D\data.ms

(107) Ethanol

3.733min (+0.006) 956.41ug/L m

response 82757

Ion	Exp%	Act%
45.00	100	100
46.00	37.40	35.93
0.00	0.00	0.00
0.00	0.00	0.00

SGS ACCUTEST FA39742

Manual Integrations APPROVED (compounds with "m" flag)
Juan Garcia
12/30/16 14:51

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\122916\
Data File : I44592.D
Acq On : 29 Dec 2016 8:30 am
Operator : WILFREDO
Sample : CC1214-5 Inst : MSVOA16
Misc : MS35941,VI1226,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Dec 29 09:17:03 2016
Quant Method : C:\msdchem\2\METHODS\I-DEC22.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Dec 23 09:02:35 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.110	96	2194690	50.00	ug/L	0.00
56) Chlorobenzene-d5	10.225	117	1521198	50.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	12.591	152	748485	50.00	ug/L	0.00
106) Tert Butyl Alcohol-d10	4.690	65	200365	250.00	ug/L	0.00
System Monitoring Compounds						
36) Dibromofluoromethane	6.275	113	567447	51.22	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 102.44%			
46) 1,2-Dichloroethane-d4	6.830	65	768203	49.10	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 98.20%			
57) Toluene-d8	8.677	98	2103567	50.57	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 101.14%			
79) 4-Bromofluorobenzene	11.439	174	530550	48.67	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 97.34%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.270	85	619287	42.36	ug/L	99
3) Chloromethane	2.477	50	896222	40.65	ug/L	100
4) 1,3-Butadiene	2.605	39	636779	41.73	ug/L	99
5) Vinyl Chloride	2.605	62	703098	41.81	ug/L	100
6) Bromomethane	2.977	94	208926	45.85	ug/L	98
7) Chloroethane	3.129	64	257720	47.04	ug/L	98
8) Trichlorofluoromethane	3.288	101	711044	44.11	ug/L	99
9) Ethyl Ether	3.587	59	531409	41.28	ug/L	99
10) 1,2-Dichlorotrifluoroe...	3.776	67	594884m	40.04	ug/L	
11) 1,1-Dichloroethene	3.818	61	878334	41.55	ug/L	99
12) Freon 113	3.891	101	472472	40.92	ug/L	99
13) Carbon Disulfide	3.879	76	1557515	42.91	ug/L	100
14) Iodomethane	3.983	142	682942	41.84	ug/L	99
15) Allyl chloride	4.318	41	800569	41.44	ug/L	100
16) Methylene Chloride	4.428	49	845987	41.77	ug/L	99
17) Acetone	4.464	43	686188	207.36	ug/L	100
18) Methyl acetate	4.586	43	1826473	210.21	ug/L	99
19) trans-1,2-Dichloroethene	4.611	61	819290	41.12	ug/L	98
20) Hexane	4.690	56	626841	40.31	ug/L	99
21) Methyl Tert Butyl Ether	4.702	73	1240405	40.78	ug/L	89
22) Acetonitrile	4.958	41	481437	457.38	ug/L	99
23) Di-isopropyl ether	5.086	45	2006614	42.20	ug/L	100
24) Chloroprene	5.226	53	1072026	49.24	ug/L	99
25) 1,1-Dichloroethane	5.245	63	977596	41.65	ug/L	99
26) Acrylonitrile	5.281	53	1011993	213.29	ug/L	98
27) ETBE	5.464	59	1762955	41.79	ug/L	100
28) Vinyl acetate	5.470	43	6640211	232.42	ug/L	99
29) cis-1,2-Dichloroethene	5.812	96	489657	41.62	ug/L	98
30) 2,2-Dichloropropane	5.928	77	510859	44.42	ug/L	99
31) Bromochloromethane	6.025	128	227089	41.55	ug/L	99
32) Cyclohexane	6.056	56	1091193	42.31	ug/L	99
33) Chloroform	6.086	83	885917	39.70	ug/L	100
34) Ethyl acetate	6.171	43	2574344	208.48	ug/L	100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\122916\
Data File : I44592.D
Acq On : 29 Dec 2016 8:30 am
Operator : WILFREDO
Sample : CC1214-5 Inst : MSVOA16
Misc : MS35941,VI1226,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Dec 29 09:17:03 2016
Quant Method : C:\msdchem\2\METHODS\I-DEC22.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Dec 23 09:02:35 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
35) Tetrahydrofuran	6.269	42	140000	42.28	ug/L	99
37) Carbon Tetrachloride	6.263	117	572561	43.63	ug/L	99
38) 1,1,1-Trichloroethane	6.324	97	738343	42.09	ug/L	99
39) 2-Butanone	6.385	43	1072749	222.86	ug/L	99
40) 1,1-Dichloropropene	6.452	75	670397	42.64	ug/L	100
41) tert-Butyl formate	6.531	59	3906937	455.47	ug/L	99
42) Propionitrile	6.690	54	802636	453.07	ug/L	88
43) Methacrylonitrile	6.714	41	3144030	433.33	ug/L	100
44) Benzene	6.702	78	1716621	41.06	ug/L	96
45) TAME	6.787	73	1214552	41.49	ug/L	99
47) 1,2-Dichloroethane	6.897	62	732924	39.08	ug/L	99
48) Trichloroethene	7.293	95	503736	41.19	ug/L	99
49) Methylcyclohexane	7.305	83	862257	42.21	ug/L	99
50) Dibromomethane	7.720	93	288227	42.00	ug/L	99
51) 1,2-Dichloropropane	7.811	63	550873	42.15	ug/L	99
52) Bromodichloromethane	7.860	83	606993	44.44	ug/L	99
53) Methyl methacrylate	7.982	41	426012	42.81	ug/L	98
54) 2-Chloroethyl vinyl ether	8.390	63	1656834	208.59	ug/L	99
55) cis-1,3-Dichloropropene	8.482	75	715247	39.14	ug/L	100
58) Toluene	8.726	91	1738064	40.48	ug/L	100
59) 2-Nitropropane	8.933	41	539166	189.48	ug/L	100
60) 4-Methyl-2-pentanone	9.061	43	2568143	214.79	ug/L	100
61) trans-1,3-Dichloropropene	9.122	75	595868	38.33	ug/L	99
62) Tetrachloroethene	9.128	166	420740	36.61	ug/L	100
63) Ethyl methacrylate	9.244	69	590135	41.14	ug/L	99
64) 1,1,2-Trichloroethane	9.281	83	339678	39.95	ug/L	99
65) Dibromochloromethane	9.476	129	383271	37.64	ug/L	99
66) 1,3-Dichloropropane	9.561	76	722211	41.05	ug/L	99
67) 1,2-Dibromoethane	9.732	107	385857	43.37	ug/L	99
68) 2-hexanone	9.884	43	1790855	208.30	ug/L	99
69) 1-Chlorohexane	10.189	91	669063	43.14	ug/L	99
70) Ethylbenzene	10.250	91	1958636	40.51	ug/L	100
71) Chlorobenzene	10.244	112	1206079	39.78	ug/L	99
72) 1,1,1,2-Tetrachloroethane	10.299	131	381883	42.27	ug/L	99
73) m,p-Xylene	10.390	91	3125741	84.22	ug/L	100
74) o-Xylene	10.829	91	1669512	43.48	ug/L	99
75) Styrene	10.878	104	1128979	38.99	ug/L	99
76) Bromoform	10.927	173	178269	34.48	ug/L	99
77) Isopropylbenzene	11.134	105	2005874	44.33	ug/L	99
80) cis-1,4-Dichloro-2-butene	11.481	53	32446	22.94	ug/L	96
81) n-Propylbenzene	11.554	91	2508899	41.56	ug/L	99
82) Bromobenzene	11.561	156	436754	40.49	ug/L	98
83) 1,1,2,2-Tetrachloroethane	11.615	83	528350	39.75	ug/L	99
84) 1,3,5-Trimethylbenzene	11.743	105	1557203	41.99	ug/L	99
85) 2-Chlorotoluene	11.737	91	1637164	40.55	ug/L	99
86) trans-1,4-Dichloro-2-B...	11.798	53	50617	24.90	ug/L	99
87) 1,2,3-Trichloropropane	11.768	110	132784	38.53	ug/L	99
88) Cyclohexanone	11.829	55	114709	214.35	ug/L	97
89) 4-Chlorotoluene	11.902	91	1521622	41.44	ug/L	100
90) tert-Butylbenzene	12.079	91	1005923	40.80	ug/L	100

SGS ACCUTEST FA39742

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\122916\
Data File : I44592.D
Acq On : 29 Dec 2016 8:30 am
Operator : WILFREDO
Sample : CC1214-5 Inst : MSVOA16
Misc : MS35941,VI1226,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Dec 29 09:17:03 2016
Quant Method : C:\msdchem\2\METHODS\I-DEC22.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Dec 23 09:02:35 2016
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
91)	a-Methyl styrene	12.006	118	939225	40.78	ug/L		99
92)	1,2,4-Trimethylbenzene	12.152	105	1516625	41.38	ug/L		98
93)	Pentachloroethane	12.121	167	247727	50.14	ug/L		99
94)	sec-Butylbenzene	12.262	105	2189139	42.37	ug/L		100
95)	4-Isopropyltoluene	12.402	119	1598261	38.35	ug/L		100
96)	1,3-Dichlorobenzene	12.518	146	865771	39.80	ug/L		100
97)	1,4-Dichlorobenzene	12.609	146	924974	40.84	ug/L		95
98)	n-Butylbenzene	12.841	92	1004866	38.74	ug/L		99
99)	Benzyl Chloride	12.847	126	167867	40.05	ug/L	#	96
100)	1,2-Dichlorobenzene	13.048	146	846394	40.32	ug/L		100
101)	1,2-Dibromo-3-Chloropr...	13.828	75	72208	34.60	ug/L		97
102)	Hexachlorobutadiene	14.414	225	228318	41.28	ug/L		99
103)	1,2,4-Trichlorobenzene	14.450	180	514129	37.33	ug/L		99
104)	Naphthalene	14.731	128	1159732	37.77	ug/L		100
105)	1,2,3-Trichlorobenzene	14.889	180	455486	41.50	ug/L		99
107)	Ethanol	3.733	45	92107m	837.00	ug/L		
108)	Acrolein	4.166	56	413749	218.17	ug/L		98
109)	Tert Butyl Alcohol	4.769	59	371832	371.03	ug/L		98
110)	Isobutyl alcohol	6.842	43	389947	901.04	ug/L		97
111)	Tert Amyl Alcohol	6.952	59	313478	400.03	ug/L		100
112)	1,4-Dioxane	8.049	88	68354	780.37	ug/L		91
113)	3,3-Dimethyl-1-butanol	9.841	57	1876897	1912.16	ug/L		99

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

7.6.11

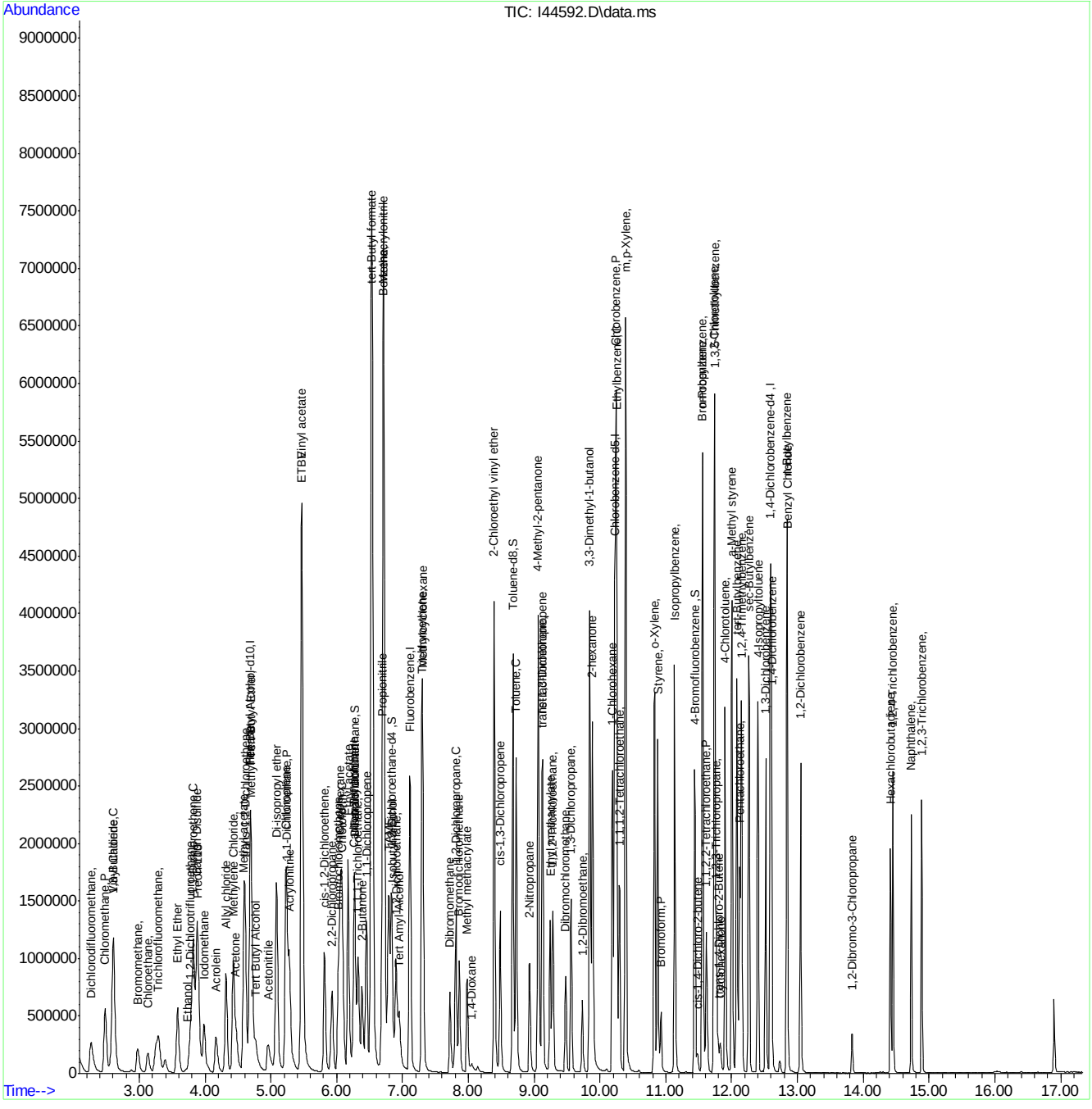
7

SGS ACCUTEST FA39742

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\122916\
Data File : I44592.D
Acq On : 29 Dec 2016 8:30 am
Operator : WILFREDO
Sample : CC1214-5 Inst : MSVOA16
Misc : MS35941,VI1226,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Dec 29 09:17:03 2016
Quant Method : C:\msdchem\2\METHODS\I-DEC22.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Dec 23 09:02:35 2016
Response via : Initial Calibration



SGS ACCUTEST FA39742

Manual Integration Approval Summary

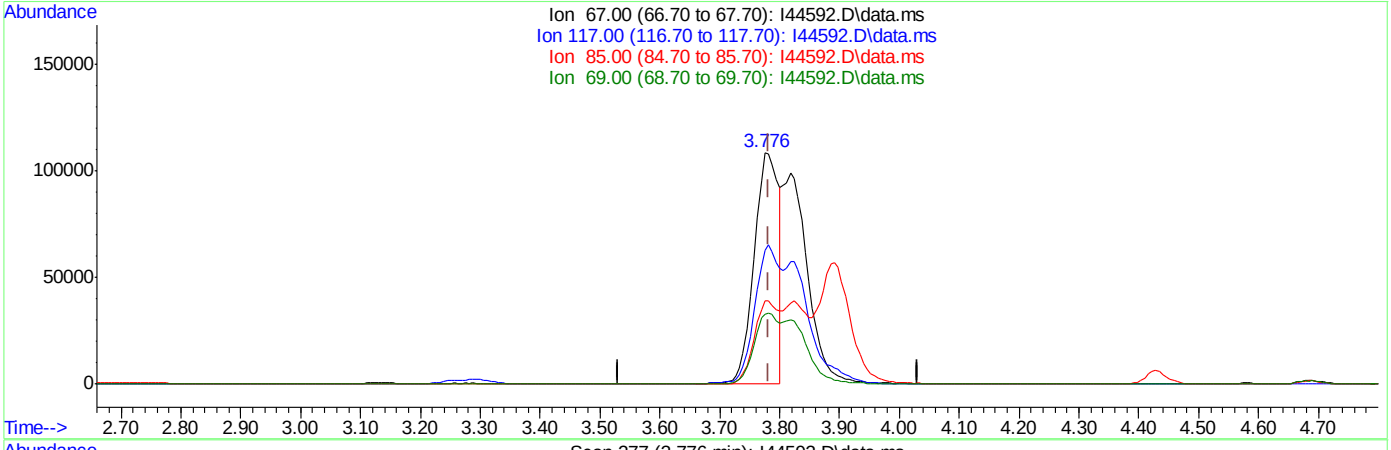
Sample Number:	VI1226-CC1214	**Method:**	SW846 8260B
Lab FileID:	I44592.D	**Analyst approved:**	12/29/16 09:18 Wilfredo Vazquez
Injection Time:	12/29/16 08:30	**Supervisor approved:**	12/30/16 14:51 Juan Garcia

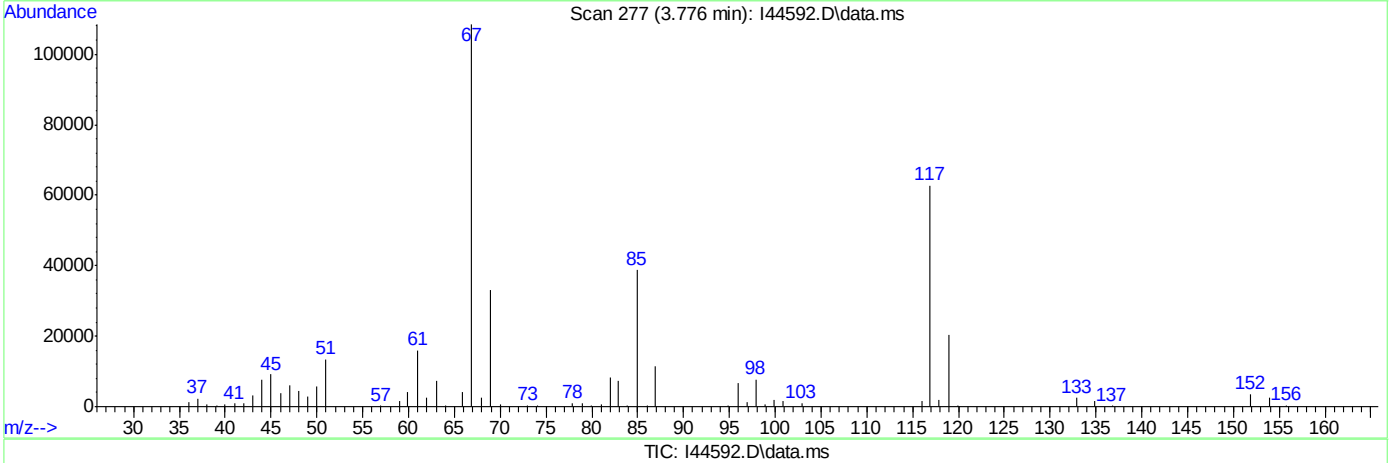
Parameter	CAS	Sig#	R.T. (min.)	Reason
Ethyl Alcohol	64-17-5		3.73	Poor instrument integration
1,2-Dichlorotrifluoroethane	354-23-4		3.78	Split peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\DATA\122916\
Data File : I44592.D
Acq On : 29 Dec 2016 8:30 am
Operator : WILFREDO
Sample : CC1214-5 Inst : MSVOA16
Misc : MS35941,VI1226,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Dec 29 09:14:13 2016
Quant Method : C:\msdchem\2\METHODS\I-DEC22.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Dec 23 09:02:35 2016
Response via : Initial Calibration





TIC: I44592.D\data.ms

(10) 1,2-Dichlorotrifluoroethane

3.776min (-0.006) 20.65ug/L

response 306805

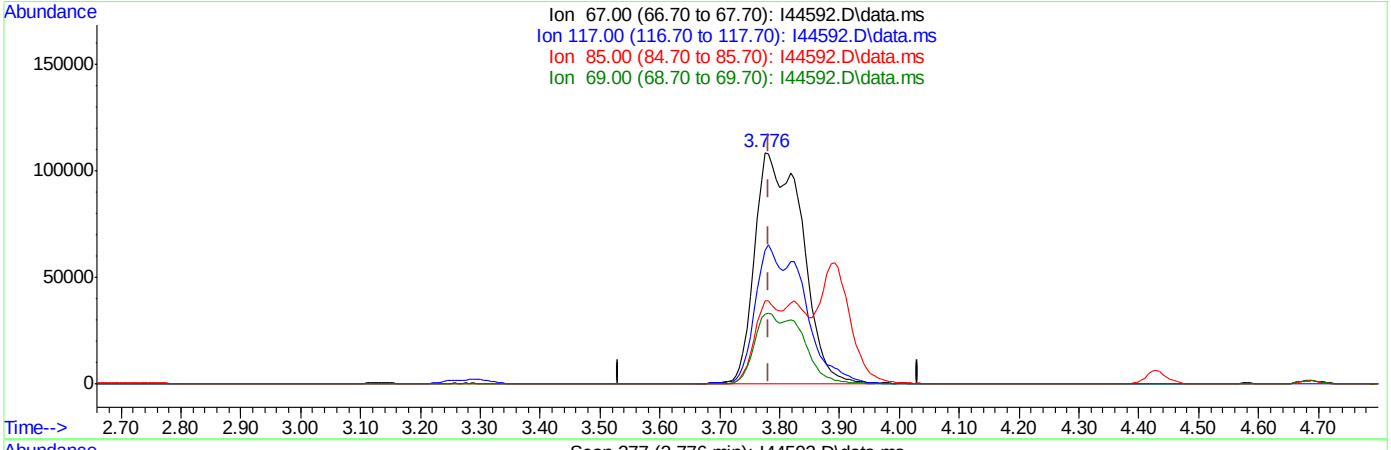
Ion	Exp%	Act%
67.00	100	100
117.00	57.70	57.82
85.00	36.80	35.77
69.00	29.70	30.41

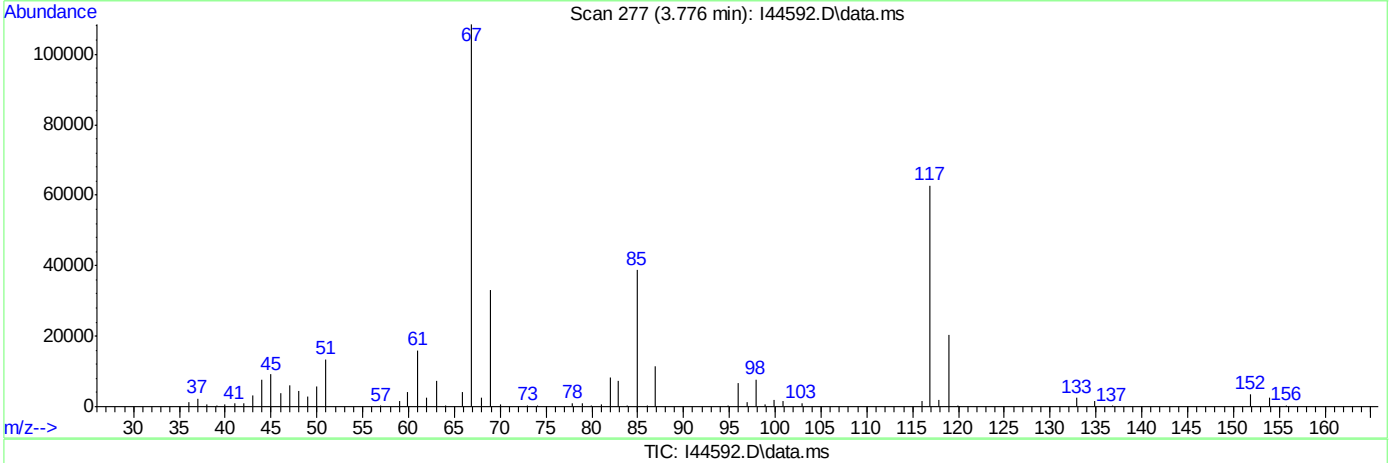
SGS ACCUTEST FA39742

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\DATA\122916\
Data File : I44592.D
Acq On : 29 Dec 2016 8:30 am
Operator : WILFREDO
Sample : CC1214-5 Inst : MSVOA16
Misc : MS35941,VI1226,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Dec 29 09:14:13 2016
Quant Method : C:\msdchem\2\METHODS\I-DEC22.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Dec 23 09:02:35 2016
Response via : Initial Calibration





TIC: I44592.D\data.ms

(10) 1,2-Dichlorotrifluoroethane

3.776min (-0.006) 40.04ug/L m

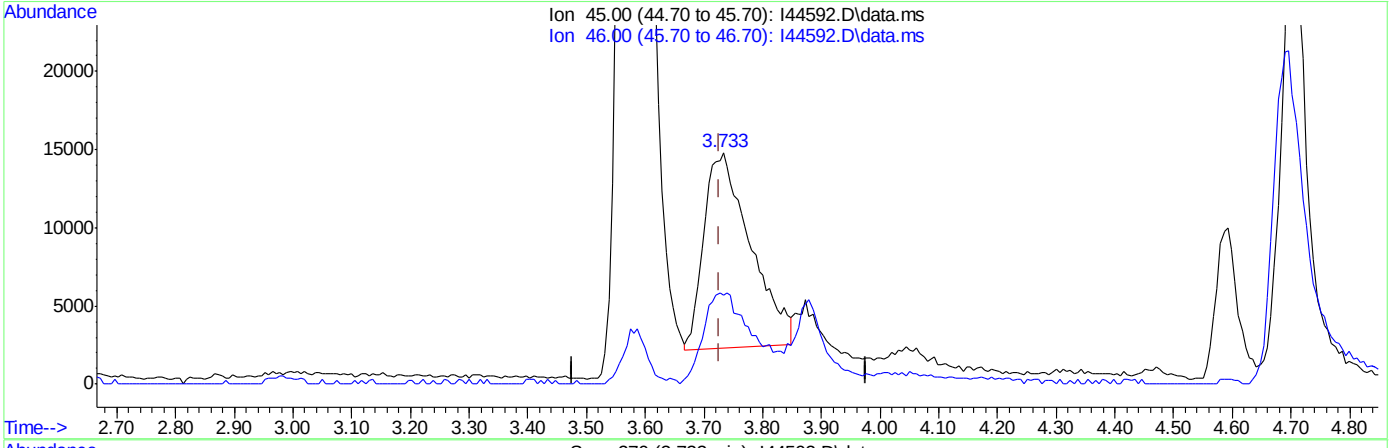
response 594884

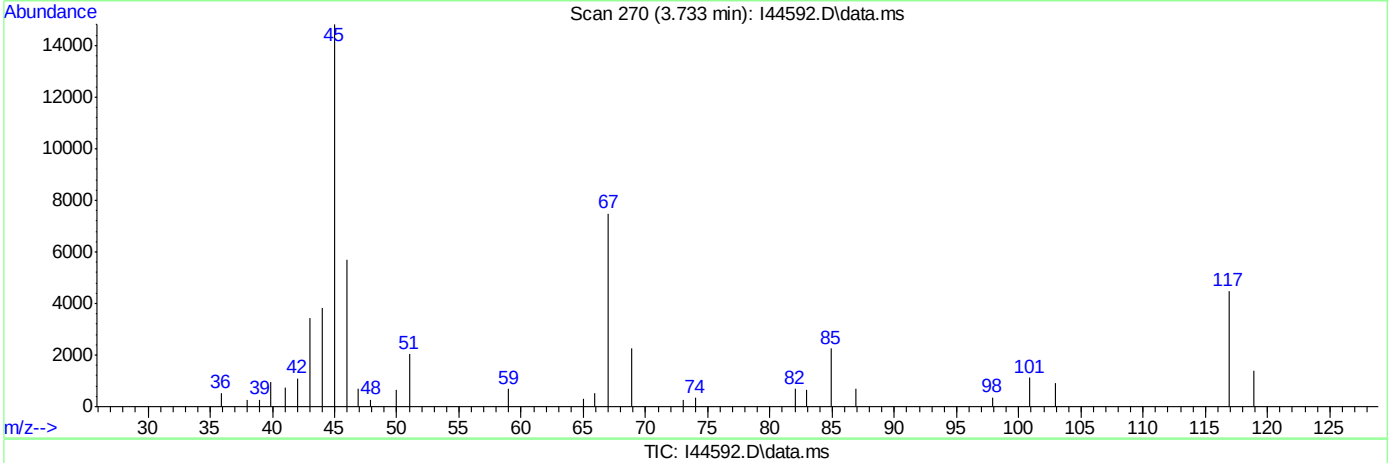
Ion	Exp%	Act%
67.00	100	100
117.00	57.70	57.82
85.00	36.80	35.77
69.00	29.70	30.41

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\DATA\122916\
Data File : I44592.D
Acq On : 29 Dec 2016 8:30 am
Operator : WILFREDO
Sample : CC1214-5 Inst : MSVOA16
Misc : MS35941,VI1226,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Dec 29 09:15:28 2016
Quant Method : C:\msdchem\2\METHODS\I-DEC22.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Dec 23 09:02:35 2016
Response via : Initial Calibration





TIC: I44592.D\data.ms

(107) Ethanol

3.733min (+0.006) 627.93ug/L

response 69100

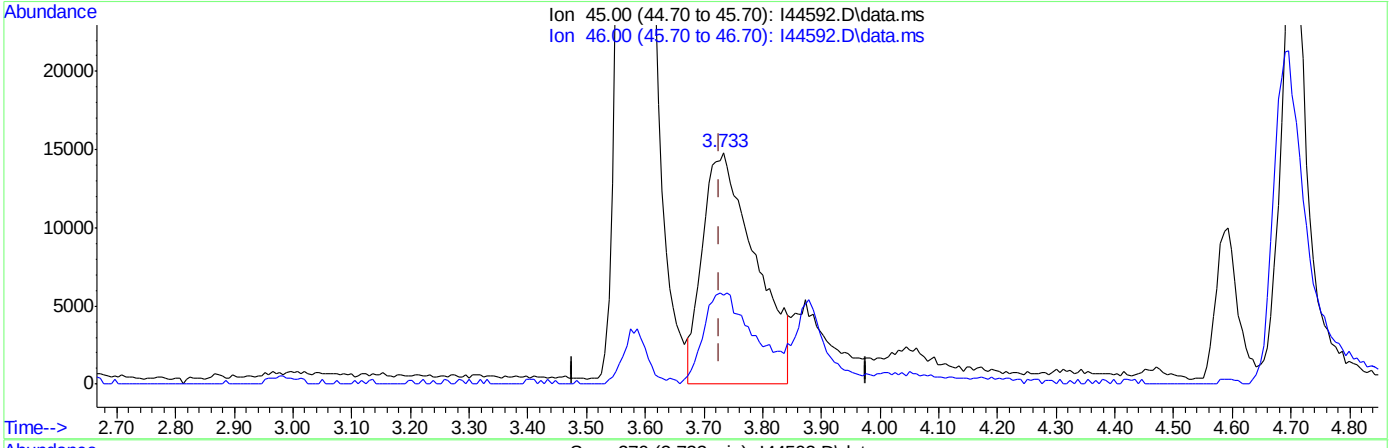
Ion	Exp%	Act%
45.00	100	100
46.00	37.40	43.49
0.00	0.00	0.00
0.00	0.00	0.00

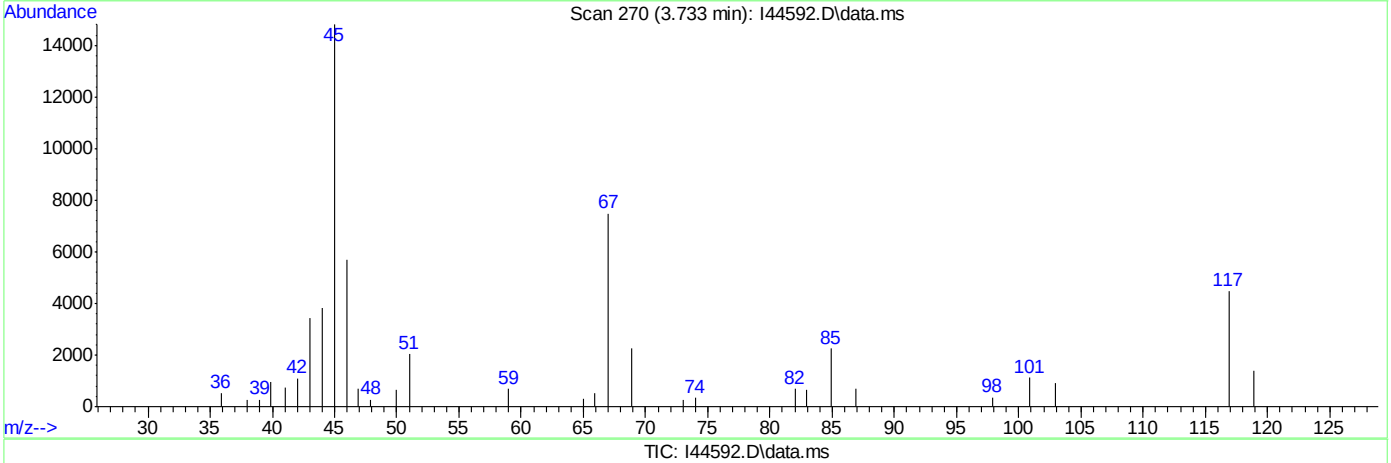
SGS ACCUTEST FA39742

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\DATA\122916\
Data File : I44592.D
Acq On : 29 Dec 2016 8:30 am
Operator : WILFREDO
Sample : CC1214-5 Inst : MSVOA16
Misc : MS35941,VI1226,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Dec 29 09:15:28 2016
Quant Method : C:\msdchem\2\METHODS\I-DEC22.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Dec 23 09:02:35 2016
Response via : Initial Calibration





TIC: I44592.D\data.ms

(107) Ethanol

3.733min (+0.006) 837.00ug/L m

response 92107

Ion	Exp%	Act%
45.00	100	100
46.00	37.40	38.45
0.00	0.00	0.00
0.00	0.00	0.00

SGS ACCUTEST FA39742

Manual Integrations APPROVED (compounds with "m" flag)
Juan Garcia
12/30/16 14:51

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\122916\
Data File : I44618.D
Acq On : 29 Dec 2016 7:07 pm
Operator : WILFREDO
Sample : ECC1214-5 Inst : MSVOA16
Misc : MS35961,VI1226,,,,,
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Dec 30 09:20:53 2016
Quant Method : C:\msdchem\2\METHODS\I-DEC22.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Dec 23 09:02:35 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.116	96	1650030	50.00	ug/L	0.00
56) Chlorobenzene-d5	10.225	117	1183884	50.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	12.591	152	580621	50.00	ug/L	0.00
106) Tert Butyl Alcohol-d10	4.690	65	162905	250.00	ug/L	0.00
System Monitoring Compounds						
36) Dibromofluoromethane	6.275	113	424185	50.92	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 101.84%			
46) 1,2-Dichloroethane-d4	6.830	65	632088	53.73	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 107.46%			
57) Toluene-d8	8.677	98	1593475	49.22	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 98.44%			
79) 4-Bromofluorobenzene	11.439	174	403179	47.68	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 95.36%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.264	85	427070	38.85	ug/L	99
3) Chloromethane	2.477	50	753764	45.48	ug/L	100
4) 1,3-Butadiene	2.611	39	547826	47.75	ug/L	93
5) Vinyl Chloride	2.599	62	601397	47.57	ug/L	98
6) Bromomethane	2.983	94	171237	51.40	ug/L	98
7) Chloroethane	3.135	64	214702	57.31	ug/L	99
8) Trichlorofluoromethane	3.288	101	584557	48.24	ug/L	100
9) Ethyl Ether	3.586	59	415955	42.98	ug/L	94
10) 1,2-Dichlorotrifluoroe...	3.775	67	440715m	39.45	ug/L	
11) 1,1-Dichloroethene	3.818	61	645763	40.63	ug/L	96
12) Freon 113	3.897	101	326814	37.65	ug/L	98
13) Carbon Disulfide	3.879	76	1100184	40.31	ug/L	95
14) Iodomethane	3.989	142	471313	38.40	ug/L	99
15) Allyl chloride	4.318	41	630348	43.40	ug/L	96
16) Methylene Chloride	4.428	49	725581	47.66	ug/L	94
17) Acetone	4.470	43	586989	235.94	ug/L	94
18) Methyl acetate	4.592	43	1608013	246.15	ug/L	97
19) trans-1,2-Dichloroethene	4.611	61	619750	41.37	ug/L	98
20) Hexane	4.690	56	475523	40.67	ug/L #	91
21) Methyl Tert Butyl Ether	4.702	73	932433	40.77	ug/L	78
22) Acetonitrile	4.958	41	429512	542.74	ug/L	98
23) Di-isopropyl ether	5.086	45	1704793	47.68	ug/L	97
24) Chloroprene	5.226	53	740607	45.25	ug/L	96
25) 1,1-Dichloroethane	5.245	63	753528	42.70	ug/L	97
26) Acrylonitrile	5.281	53	810625	227.25	ug/L	99
27) ETBE	5.470	59	1395440	43.99	ug/L	97
28) Vinyl acetate	5.470	43	5732529	266.88	ug/L	100
29) cis-1,2-Dichloroethene	5.818	96	364050	41.16	ug/L	96
30) 2,2-Dichloropropane	5.927	77	350863	40.58	ug/L	97
31) Bromochloromethane	6.025	128	166663	40.56	ug/L #	84
32) Cyclohexane	6.062	56	795050	41.00	ug/L	95
33) Chloroform	6.086	83	689670	41.11	ug/L	97
34) Ethyl acetate	6.171	43	2242177	241.52	ug/L	99

SGS ACCUTEST FA39742

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\122916\
Data File : I44618.D
Acq On : 29 Dec 2016 7:07 pm
Operator : WILFREDO
Sample : ECC1214-5 Inst : MSVOA16
Misc : MS35961,VI1226,,,,,
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Dec 30 09:20:53 2016
Quant Method : C:\msdchem\2\METHODS\I-DEC22.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Dec 23 09:02:35 2016
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
35)	Tetrahydrofuran	6.269	42	119170	47.87	ug/L	94
37)	Carbon Tetrachloride	6.269	117	396077	40.15	ug/L	98
38)	1,1,1-Trichloroethane	6.324	97	524405	39.76	ug/L	97
39)	2-Butanone	6.385	43	923856	255.28	ug/L	96
40)	1,1-Dichloropropene	6.452	75	489494	41.41	ug/L	92
41)	tert-Butyl formate	6.531	59	3020931	468.43	ug/L	97
42)	Propionitrile	6.689	54	633638	475.74	ug/L	88
43)	Methacrylonitrile	6.714	41	2856351	523.63	ug/L	98
44)	Benzene	6.708	78	1301486	41.41	ug/L	87
45)	TAME	6.793	73	924116	41.99	ug/L	93
47)	1,2-Dichloroethane	6.897	62	598026	42.42	ug/L	97
48)	Trichloroethene	7.293	95	367029	39.92	ug/L	99
49)	Methylcyclohexane	7.305	83	602217	39.21	ug/L	94
50)	Dibromomethane	7.720	93	219579	42.56	ug/L	96
51)	1,2-Dichloropropane	7.811	63	436369	44.41	ug/L	96
52)	Bromodichloromethane	7.860	83	473115	46.07	ug/L	98
53)	Methyl methacrylate	7.982	41	335449	44.83	ug/L	92
54)	2-Chloroethyl vinyl ether	8.390	63	1297286	217.23	ug/L	90
55)	cis-1,3-Dichloropropene	8.482	75	556424	40.50	ug/L	92
58)	Toluene	8.726	91	1294773	38.75	ug/L	100
59)	2-Nitropropane	8.933	41	471342	212.84	ug/L	99
60)	4-Methyl-2-pentanone	9.061	43	2252504	242.07	ug/L	95
61)	trans-1,3-Dichloropropene	9.122	75	472964	39.10	ug/L	93
62)	Tetrachloroethene	9.128	166	330093	36.91	ug/L	100
63)	Ethyl methacrylate	9.244	69	430670	38.57	ug/L	87
64)	1,1,2-Trichloroethane	9.287	83	271850	41.08	ug/L	98
65)	Dibromochloromethane	9.482	129	280485	35.40	ug/L	98
66)	1,3-Dichloropropane	9.561	76	570057	41.64	ug/L	91
67)	1,2-Dibromoethane	9.732	107	285949	41.30	ug/L	99
68)	2-hexanone	9.884	43	1607524	240.25	ug/L	93
69)	1-Chlorohexane	10.189	91	463824	38.43	ug/L	83
70)	Ethylbenzene	10.250	91	1533408	40.75	ug/L	98
71)	Chlorobenzene	10.244	112	935518	39.65	ug/L	95
72)	1,1,1,2-Tetrachloroethane	10.299	131	295891	42.08	ug/L	98
73)	m,p-Xylene	10.390	91	2410368	83.45	ug/L	99
74)	o-Xylene	10.829	91	1259833	42.16	ug/L	99
75)	Styrene	10.878	104	846425	37.56	ug/L	95
76)	Bromoform	10.926	173	131799	32.76	ug/L	98
77)	Isopropylbenzene	11.134	105	1445661	41.05	ug/L	99
80)	cis-1,4-Dichloro-2-butene	11.481	53	47136	38.97	ug/L	95
81)	n-Propylbenzene	11.554	91	1885675	40.27	ug/L	97
82)	Bromobenzene	11.560	156	324524	38.78	ug/L	98
83)	1,1,2,2-Tetrachloroethane	11.615	83	424253	41.15	ug/L	100
84)	1,3,5-Trimethylbenzene	11.743	105	1201370	41.76	ug/L	97
85)	2-Chlorotoluene	11.737	91	1281327	40.91	ug/L	98
86)	trans-1,4-Dichloro-2-B...	11.798	53	66207	39.30	ug/L	90
87)	1,2,3-Trichloropropane	11.768	110	104863	39.23	ug/L	93
88)	Cyclohexanone	11.829	55	105386	249.43	ug/L	94
89)	4-Chlorotoluene	11.902	91	1171984	41.14	ug/L	98
90)	tert-Butylbenzene	12.079	91	769359	40.22	ug/L	96

SGS ACCUTEST FA39742

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\122916\
Data File : I44618.D
Acq On : 29 Dec 2016 7:07 pm
Operator : WILFREDO
Sample : ECC1214-5 Inst : MSVOA16
Misc : MS35961,VI1226,,,,,
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Dec 30 09:20:53 2016
Quant Method : C:\msdchem\2\METHODS\I-DEC22.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Dec 23 09:02:35 2016
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
91)	a-Methyl styrene	12.006	118	674374	37.74	ug/L		99
92)	1,2,4-Trimethylbenzene	12.152	105	1180864	41.53	ug/L		99
93)	Pentachloroethane	12.121	167	145888	38.06	ug/L		97
94)	sec-Butylbenzene	12.262	105	1601171	39.95	ug/L		99
95)	4-Isopropyltoluene	12.402	119	1195102	36.96	ug/L		99
96)	1,3-Dichlorobenzene	12.518	146	673048	39.88	ug/L		99
97)	1,4-Dichlorobenzene	12.609	146	696528	39.65	ug/L		97
98)	n-Butylbenzene	12.841	92	778475	38.69	ug/L		96
99)	Benzyl Chloride	12.847	126	118832	36.77	ug/L	#	64
100)	1,2-Dichlorobenzene	13.048	146	656864	40.34	ug/L		97
101)	1,2-Dibromo-3-Chloropr...	13.834	75	55630	34.36	ug/L		92
102)	Hexachlorobutadiene	14.414	225	156693	36.52	ug/L		97
103)	1,2,4-Trichlorobenzene	14.450	180	385149	36.05	ug/L		99
104)	Naphthalene	14.731	128	874367	36.71	ug/L		100
105)	1,2,3-Trichlorobenzene	14.889	180	343651	40.36	ug/L		98
107)	Ethanol	3.721	45	76324m	853.07	ug/L		
108)	Acrolein	4.166	56	351069	227.68	ug/L		98
109)	Tert Butyl Alcohol	4.769	59	310065	380.54	ug/L		91
110)	Isobutyl alcohol	6.842	43	334518	950.70	ug/L		98
111)	Tert Amyl Alcohol	6.952	59	261760	410.85	ug/L		95
112)	1,4-Dioxane	8.049	88	51268	719.90	ug/L		98
113)	3,3-Dimethyl-1-butanol	9.841	57	1531653	1919.25	ug/L		97

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

7.6.12

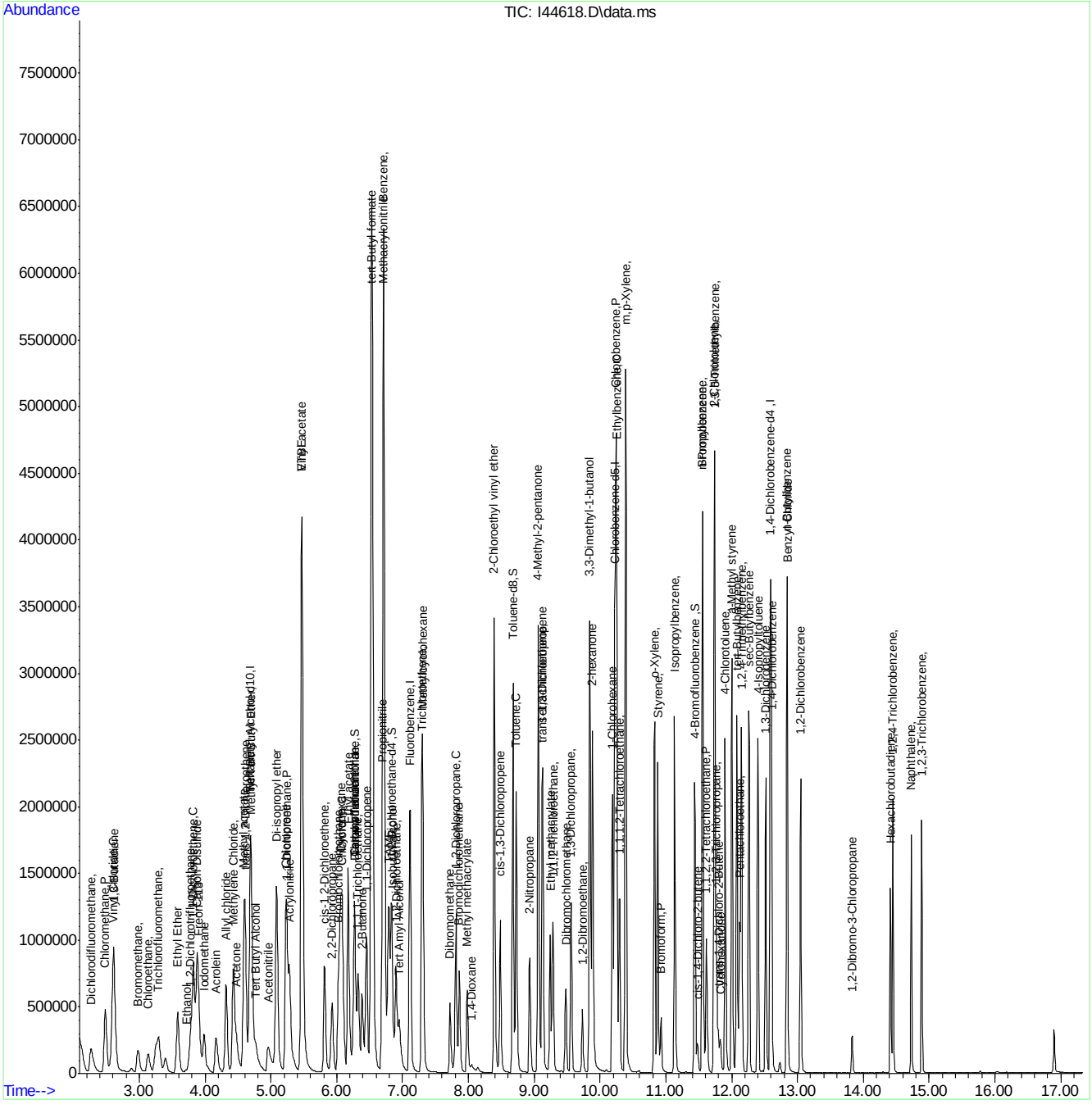
7

SGS ACCUTEST FA39742

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\122916\
Data File : I44618.D
Acq On : 29 Dec 2016 7:07 pm
Operator : WILFREDO
Sample : ECC1214-5 Inst : MSVOA16
Misc : MS35961,VI1226,,,,,
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Dec 30 09:20:53 2016
Quant Method : C:\msdchem\2\METHODS\I-DEC22.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Dec 23 09:02:35 2016
Response via : Initial Calibration



SGS ACCUTEST FA39742

Manual Integration Approval Summary

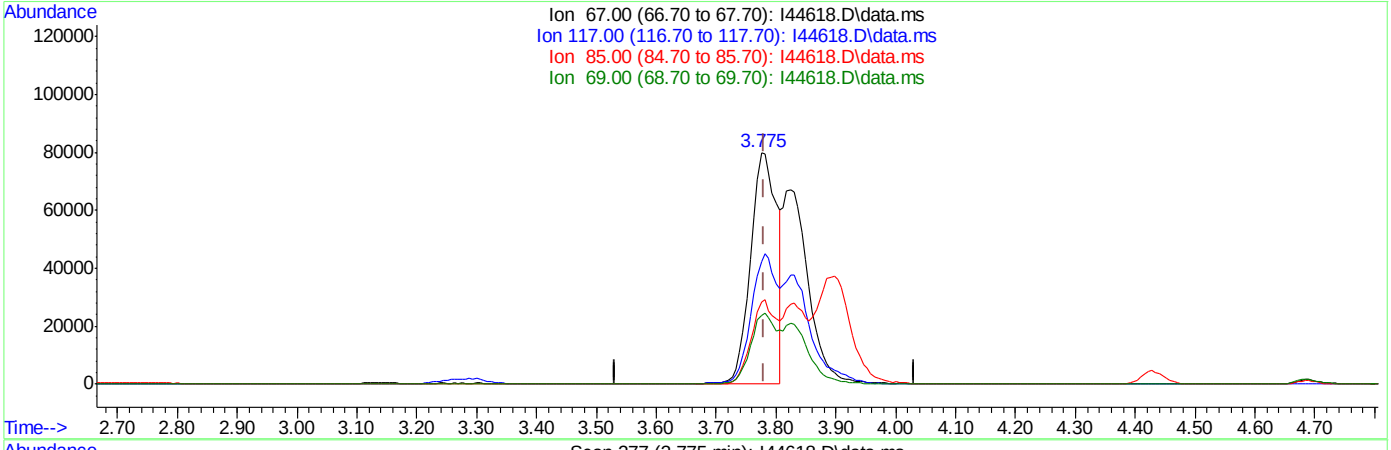
Sample Number:	VI1226-ECC1214	**Method:**	SW846 8260B
Lab FileID:	I44618.D	**Analyst approved:**	12/30/16 09:53 Wilfredo Vazquez
Injection Time:	12/29/16 19:07	**Supervisor approved:**	12/30/16 14:51 Juan Garcia

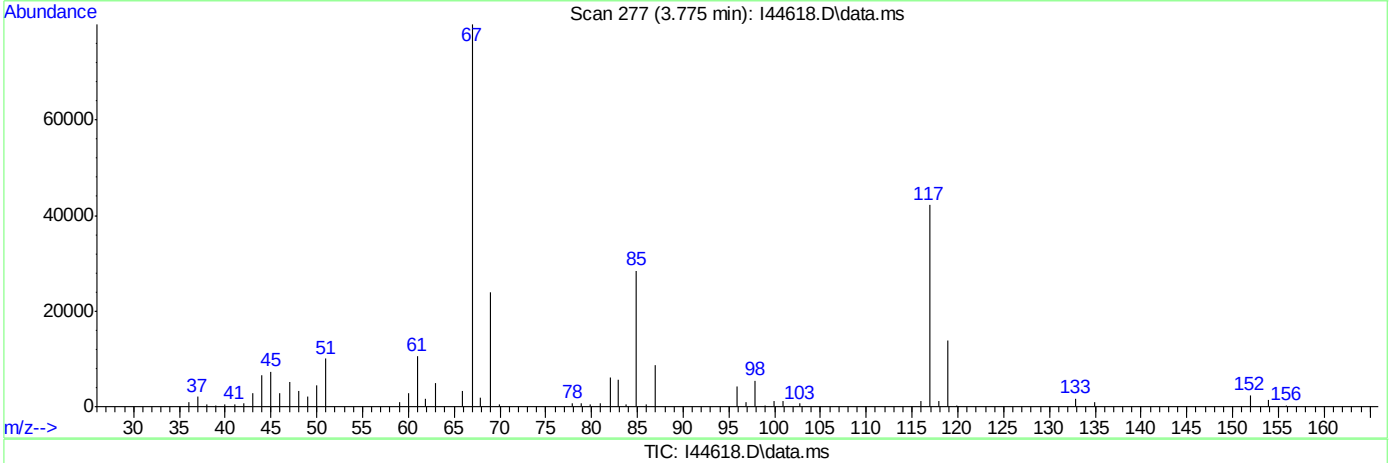
Parameter	CAS	Sig#	R.T. (min.)	Reason
Ethyl Alcohol	64-17-5		3.72	Poor instrument integration
1,2-Dichlorotrifluoroethane	354-23-4		3.78	Split peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\DATA\122916\
Data File : I44618.D
Acq On : 29 Dec 2016 7:07 pm
Operator : WILFREDO
Sample : ECC1214-5 Inst : MSVOA16
Misc : MS35961,VI1226,,,,,
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Dec 30 08:57:29 2016
Quant Method : C:\msdchem\2\METHODS\I-DEC22.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Dec 23 09:02:35 2016
Response via : Initial Calibration





TIC: I44618.D\data.ms

(10) 1,2-Dichlorotrifluoroethane

3.775min (-0.006) 21.72ug/L

response 242660

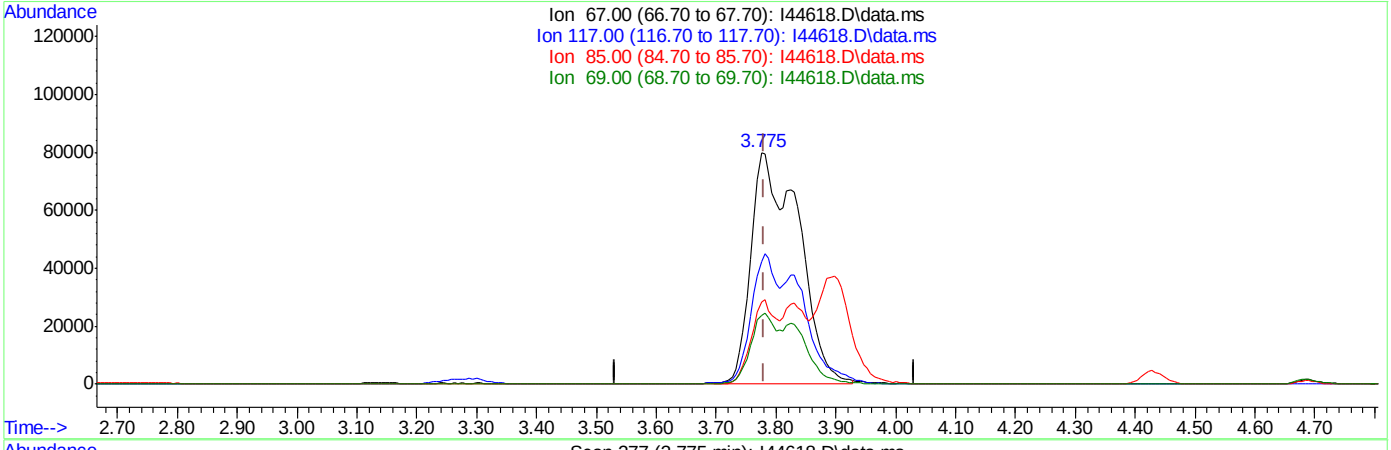
Ion	Exp%	Act%
67.00	100	100
117.00	57.70	52.73
85.00	36.80	35.55
69.00	29.70	29.85

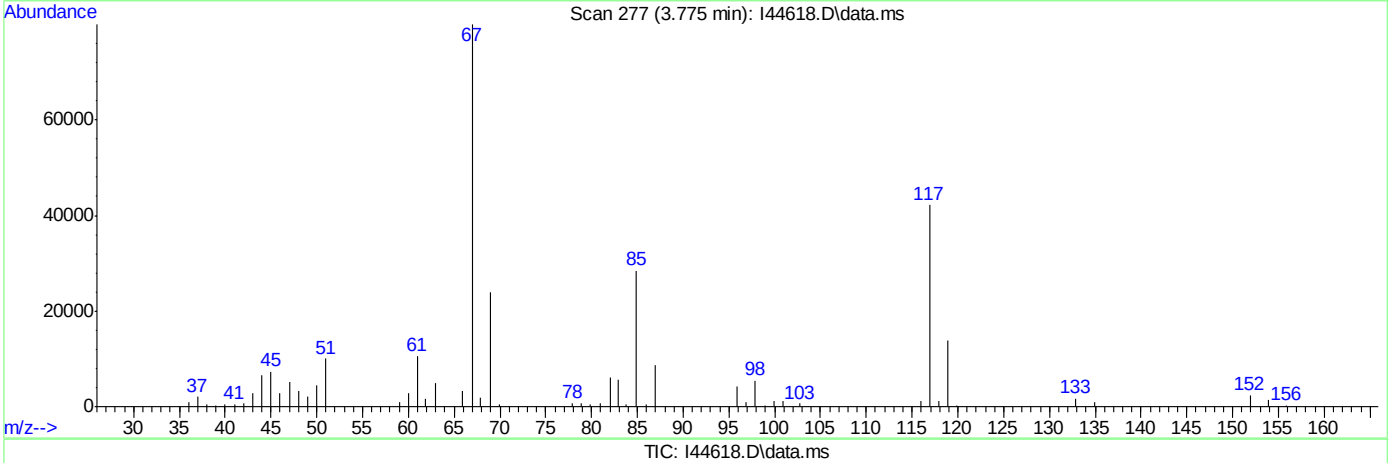
SGS ACCUTEST FA39742

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\DATA\122916\
Data File : I44618.D
Acq On : 29 Dec 2016 7:07 pm
Operator : WILFREDO
Sample : ECC1214-5 Inst : MSVOA16
Misc : MS35961,VI1226,,,,,
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Dec 30 08:57:29 2016
Quant Method : C:\msdchem\2\METHODS\I-DEC22.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Dec 23 09:02:35 2016
Response via : Initial Calibration





TIC: I44618.D\data.ms

(10) 1,2-Dichlorotrifluoroethane

3.775min (-0.006) 39.45ug/L m

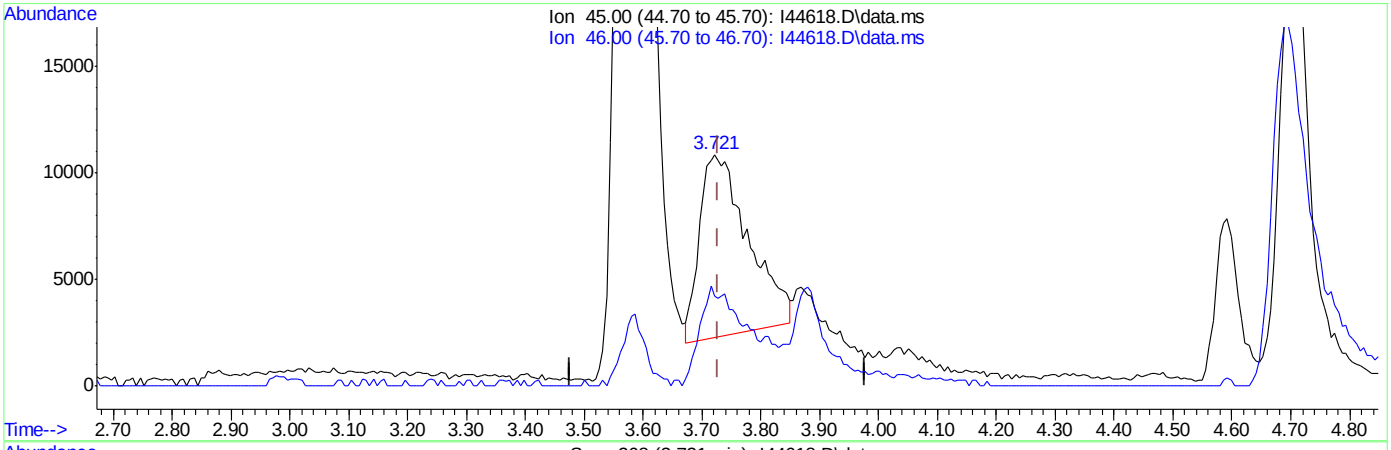
response 440715

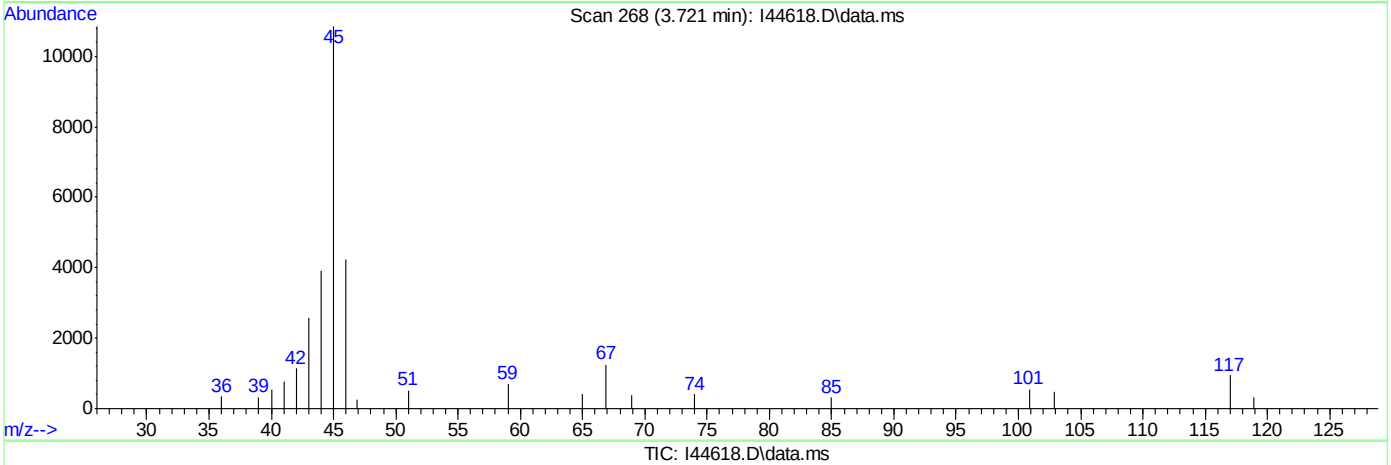
Ion	Exp%	Act%
67.00	100	100
117.00	57.70	52.73
85.00	36.80	35.55
69.00	29.70	29.85

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\DATA\122916\
Data File : I44618.D
Acq On : 29 Dec 2016 7:07 pm
Operator : WILFREDO
Sample : ECC1214-5 Inst : MSVOA16
Misc : MS35961,VI1226,,,,,
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Dec 30 08:57:29 2016
Quant Method : C:\msdchem\2\METHODS\I-DEC22.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Dec 23 09:02:35 2016
Response via : Initial Calibration





TIC: I44618.D\data.ms

(107) Ethanol

3.721min (-0.006) 545.66ug/L

response 48820

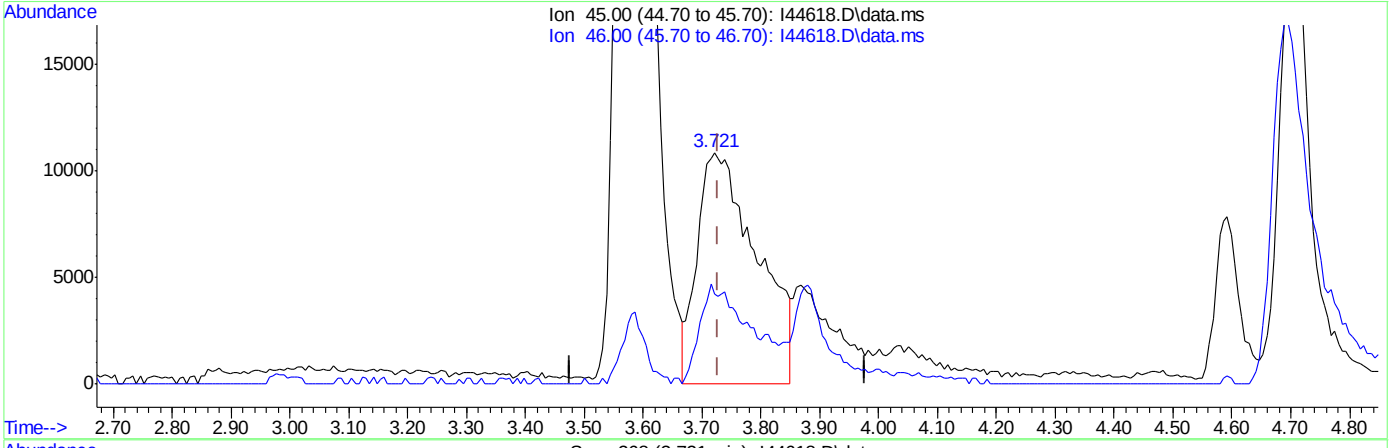
Ion	Exp%	Act%
45.00	100	100
46.00	37.40	49.01
0.00	0.00	0.00
0.00	0.00	0.00

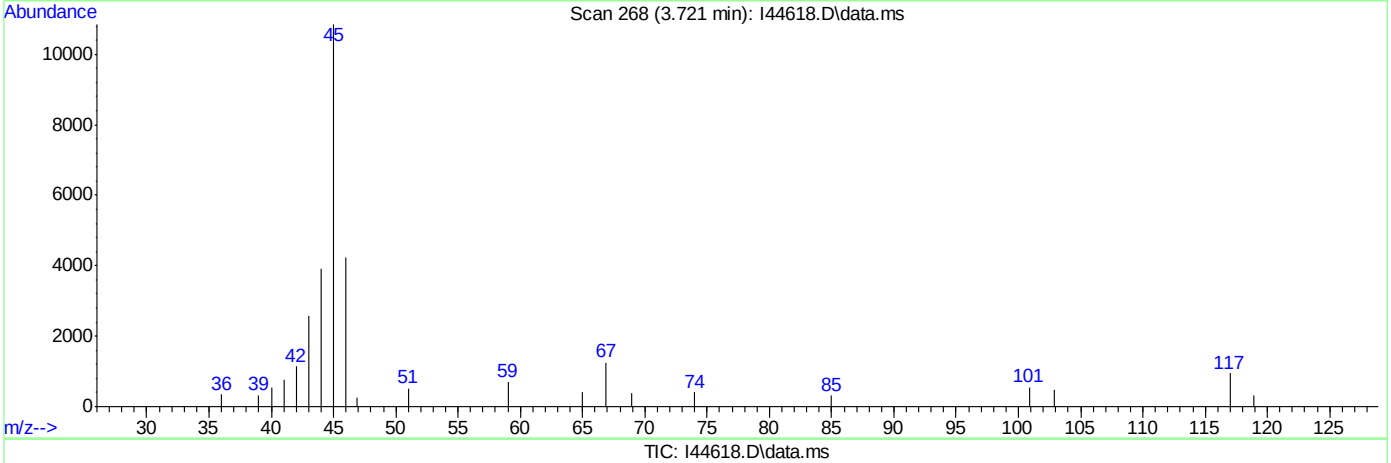
SGS ACCUTEST FA39742

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\DATA\122916\
Data File : I44618.D
Acq On : 29 Dec 2016 7:07 pm
Operator : WILFREDO
Sample : ECC1214-5 Inst : MSVOA16
Misc : MS35961,VI1226,,,,,
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Dec 30 08:57:29 2016
Quant Method : C:\msdchem\2\METHODS\I-DEC22.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Dec 23 09:02:35 2016
Response via : Initial Calibration





TIC: I44618.D\data.ms

(107) Ethanol

3.721min (-0.006) 853.07ug/L m

response 76324

Ion	Exp%	Act%
45.00	100	100
46.00	37.40	38.87
0.00	0.00	0.00
0.00	0.00	0.00

SGS ACCUTEST FA39742

Manual Integrations APPROVED (compounds with "m" flag)
Juan Garcia
01/03/17 16:18

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\123016\
Data File : I44649.D
Acq On : 30 Dec 2016 9:35 am
Operator : WILFREDO
Sample : CC1214-5 Inst : MSVOA16
Misc : MS35962,VI1229,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Dec 30 11:08:36 2016
Quant Method : C:\msdchem\2\METHODS\I-DEC22.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Dec 23 09:02:35 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.110	96	2411072	50.00	ug/L	0.00
56) Chlorobenzene-d5	10.226	117	1605742	50.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	12.591	152	784301	50.00	ug/L	0.00
106) Tert Butyl Alcohol-d10	4.696	65	231442	250.00	ug/L	0.00
System Monitoring Compounds						
36) Dibromofluoromethane	6.275	113	604712	49.68	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 99.36%			
46) 1,2-Dichloroethane-d4	6.830	65	797661	46.40	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 92.80%			
57) Toluene-d8	8.677	98	2256196	51.39	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 102.78%			
79) 4-Bromofluorobenzene	11.439	174	590548	51.70	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 103.40%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.270	85	630455	39.25	ug/L	97
3) Chloromethane	2.483	50	882219	36.43	ug/L	99
4) 1,3-Butadiene	2.611	39	472448	28.18	ug/L	99
5) Vinyl Chloride	2.605	62	674506	36.51	ug/L	100
6) Bromomethane	2.977	94	180473	34.05	ug/L	100
7) Chloroethane	3.135	64	218978	32.17	ug/L	98
8) Trichlorofluoromethane	3.288	101	675440	38.14	ug/L	99
9) Ethyl Ether	3.587	59	523968	37.05	ug/L	96
10) 1,2-Dichlorotrifluoroe...	3.830	67	602249m	36.90	ug/L	
11) 1,1-Dichloroethene	3.818	61	877339	37.78	ug/L	98
12) Freon 113	3.897	101	484560	38.20	ug/L	99
13) Carbon Disulfide	3.879	76	1576692	39.54	ug/L	97
14) Iodomethane	3.989	142	718959	40.09	ug/L	99
15) Allyl chloride	4.318	41	760541	35.84	ug/L	97
16) Methylene Chloride	4.428	49	825434	37.10	ug/L	97
17) Acetone	4.471	43	678067	186.52	ug/L	97
18) Methyl acetate	4.592	43	1787709	187.28	ug/L	98
19) trans-1,2-Dichloroethene	4.611	61	828668	37.86	ug/L	96
20) Hexane	4.690	56	633297	37.07	ug/L	97
21) Methyl Tert Butyl Ether	4.708	73	1296605	38.80	ug/L	92
22) Acetonitrile	4.958	41	486812	420.98	ug/L	99
23) Di-isopropyl ether	5.086	45	1974594	37.80	ug/L	99
24) Chloroprene	5.226	53	958230	40.07	ug/L	99
25) 1,1-Dichloroethane	5.251	63	980117	38.01	ug/L	99
26) Acrylonitrile	5.281	53	1011121	193.98	ug/L	99
27) ETBE	5.470	59	1799443	38.82	ug/L	99
28) Vinyl acetate	5.470	43	6332295	201.75	ug/L	99
29) cis-1,2-Dichloroethene	5.812	96	513450	39.73	ug/L	97
30) 2,2-Dichloropropane	5.928	77	502437	39.77	ug/L	100
31) Bromochloromethane	6.025	128	241816	40.28	ug/L	91
32) Cyclohexane	6.056	56	1105158	39.01	ug/L	97
33) Chloroform	6.086	83	918225	37.45	ug/L	98
34) Ethyl acetate	6.171	43	2499977	184.29	ug/L	100

SGS ACCUTEST FA39742

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\123016\
Data File : I44649.D
Acq On : 30 Dec 2016 9:35 am
Operator : WILFREDO
Sample : CC1214-5 Inst : MSVOA16
Misc : MS35962,VI1229,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Dec 30 11:08:36 2016
Quant Method : C:\msdchem\2\METHODS\I-DEC22.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Dec 23 09:02:35 2016
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
35)	Tetrahydrofuran	6.269	42	136681	37.58	ug/L	95
37)	Carbon Tetrachloride	6.263	117	576209	39.97	ug/L	100
38)	1,1,1-Trichloroethane	6.324	97	763850	39.64	ug/L	98
39)	2-Butanone	6.385	43	1057324	199.94	ug/L	96
40)	1,1-Dichloropropene	6.452	75	692565	40.09	ug/L	97
41)	tert-Butyl formate	6.531	59	4106355	435.76	ug/L	97
42)	Propionitrile	6.690	54	762141	391.60	ug/L	94
43)	Methacrylonitrile	6.714	41	2893392	362.99	ug/L	99
44)	Benzene	6.702	78	1776881	38.69	ug/L	91
45)	TAME	6.793	73	1269974	39.49	ug/L	96
47)	1,2-Dichloroethane	6.897	62	727749	35.32	ug/L	99
48)	Trichloroethene	7.293	95	506994	37.74	ug/L	98
49)	Methylcyclohexane	7.305	83	886760	39.51	ug/L	98
50)	Dibromomethane	7.720	93	293771	38.97	ug/L	96
51)	1,2-Dichloropropane	7.811	63	570691	39.74	ug/L	99
52)	Bromodichloromethane	7.860	83	643261	42.87	ug/L	99
53)	Methyl methacrylate	7.982	41	390853	35.75	ug/L	96
54)	2-Chloroethyl vinyl ether	8.391	63	1682801	192.84	ug/L	98
55)	cis-1,3-Dichloropropene	8.482	75	751435	37.43	ug/L	97
58)	Toluene	8.726	91	1791056	39.52	ug/L	99
59)	2-Nitropropane	8.933	41	540221	179.85	ug/L	98
60)	4-Methyl-2-pentanone	9.061	43	2489157	197.22	ug/L	98
61)	trans-1,3-Dichloropropene	9.122	75	633897	38.63	ug/L	97
62)	Tetrachloroethene	9.128	166	442443	36.48	ug/L	98
63)	Ethyl methacrylate	9.244	69	582054	38.44	ug/L	95
64)	1,1,2-Trichloroethane	9.281	83	359273	40.03	ug/L	97
65)	Dibromochloromethane	9.476	129	415075	38.62	ug/L	98
66)	1,3-Dichloropropane	9.561	76	743190	40.02	ug/L	96
67)	1,2-Dibromoethane	9.732	107	403127	42.93	ug/L	100
68)	2-hexanone	9.884	43	1758435	193.76	ug/L	96
69)	1-Chlorohexane	10.189	91	696383	42.54	ug/L	95
70)	Ethylbenzene	10.250	91	2015428	39.49	ug/L	100
71)	Chlorobenzene	10.244	112	1240750	38.77	ug/L	99
72)	1,1,1,2-Tetrachloroethane	10.293	131	398859	41.82	ug/L	99
73)	m,p-Xylene	10.390	91	3262889	83.29	ug/L	99
74)	o-Xylene	10.829	91	1739681	42.92	ug/L	99
75)	Styrene	10.878	104	1190956	38.96	ug/L	99
76)	Bromoform	10.927	173	207219	37.97	ug/L	98
77)	Isopropylbenzene	11.134	105	2063359	43.20	ug/L	100
80)	cis-1,4-Dichloro-2-butene	11.481	53	77630	45.73	ug/L	95
81)	n-Propylbenzene	11.555	91	2563818	40.53	ug/L	100
82)	Bromobenzene	11.561	156	452622	40.04	ug/L	98
83)	1,1,2,2-Tetrachloroethane	11.616	83	542677	38.97	ug/L	99
84)	1,3,5-Trimethylbenzene	11.744	105	1600163	41.17	ug/L	99
85)	2-Chlorotoluene	11.737	91	1650009	39.00	ug/L	100
86)	trans-1,4-Dichloro-2-B...	11.798	53	103113	44.33	ug/L	96
87)	1,2,3-Trichloropropane	11.768	110	142756	39.53	ug/L	96
88)	Cyclohexanone	11.829	55	123976	220.41	ug/L	97
89)	4-Chlorotoluene	11.902	91	1568346	40.76	ug/L	99
90)	tert-Butylbenzene	12.079	91	1020592	39.50	ug/L	97

SGS ACCUTEST FA39742

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\123016\
Data File : I44649.D
Acq On : 30 Dec 2016 9:35 am
Operator : WILFREDO
Sample : CC1214-5 Inst : MSVOA16
Misc : MS35962,VI1229,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Dec 30 11:08:36 2016
Quant Method : C:\msdchem\2\METHODS\I-DEC22.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Dec 23 09:02:35 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
91) a-Methyl styrene	12.006	118	904383	37.47	ug/L	99
92) 1,2,4-Trimethylbenzene	12.146	105	1593983	41.51	ug/L	99
93) Pentachloroethane	12.121	167	251387	48.55	ug/L	99
94) sec-Butylbenzene	12.262	105	2234263	41.27	ug/L	99
95) 4-Isopropyltoluene	12.402	119	1642169	37.60	ug/L	100
96) 1,3-Dichlorobenzene	12.518	146	926926	40.66	ug/L	98
97) 1,4-Dichlorobenzene	12.603	146	948728	39.98	ug/L	98
98) n-Butylbenzene	12.841	92	1053912	38.78	ug/L	100
99) Benzyl Chloride	12.847	126	182409	41.42	ug/L	100
100) 1,2-Dichlorobenzene	13.048	146	869442	39.52	ug/L	99
101) 1,2-Dibromo-3-Chloropr...	13.828	75	74500	34.06	ug/L	97
102) Hexachlorobutadiene	14.414	225	237964	41.06	ug/L	99
103) 1,2,4-Trichlorobenzene	14.450	180	536932	37.20	ug/L	99
104) Naphthalene	14.731	128	1217370	37.84	ug/L	100
105) 1,2,3-Trichlorobenzene	14.889	180	476330	41.42	ug/L	99
107) Ethanol	3.733	45	99833m	785.40	ug/L	
108) Acrolein	4.166	56	429791	196.20	ug/L	100
109) Tert Butyl Alcohol	4.769	59	454732	392.82	ug/L	94
110) Isobutyl alcohol	6.842	43	393872	787.90	ug/L	96
111) Tert Amyl Alcohol	6.952	59	376772	416.24	ug/L	97
112) 1,4-Dioxane	8.049	88	81885	809.32	ug/L	93
113) 3,3-Dimethyl-1-butanol	9.841	57	2112780	1863.45	ug/L	99

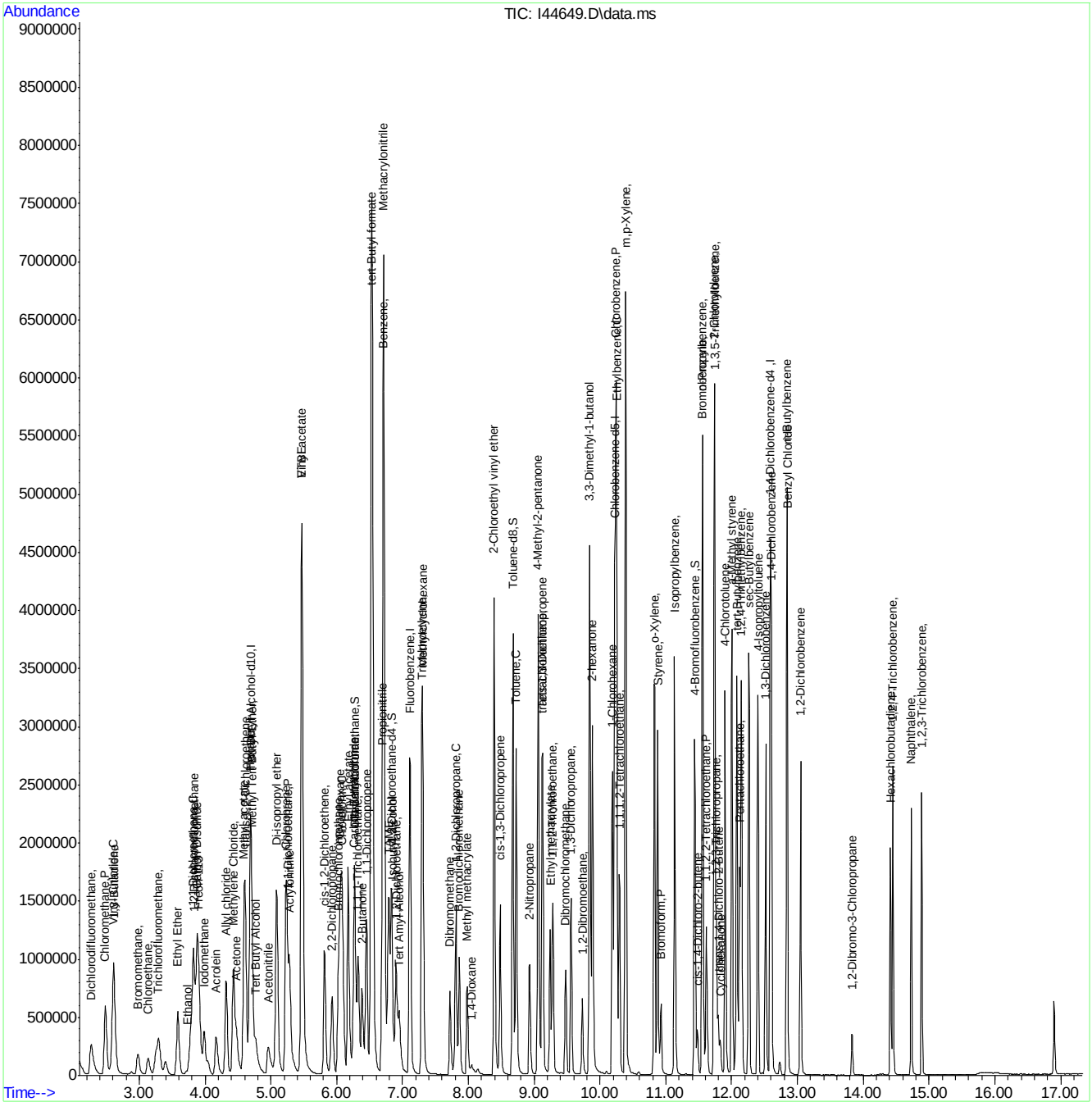
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST FA39742

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\123016\
Data File : I44649.D
Acq On : 30 Dec 2016 9:35 am
Operator : WILFREDO
Sample : CC1214-5 Inst : MSVOA16
Misc : MS35962,VI1229,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Dec 30 11:08:36 2016
Quant Method : C:\msdchem\2\METHODS\I-DEC22.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Dec 23 09:02:35 2016
Response via : Initial Calibration



SGS ACCUTEST FA39742

Manual Integration Approval Summary

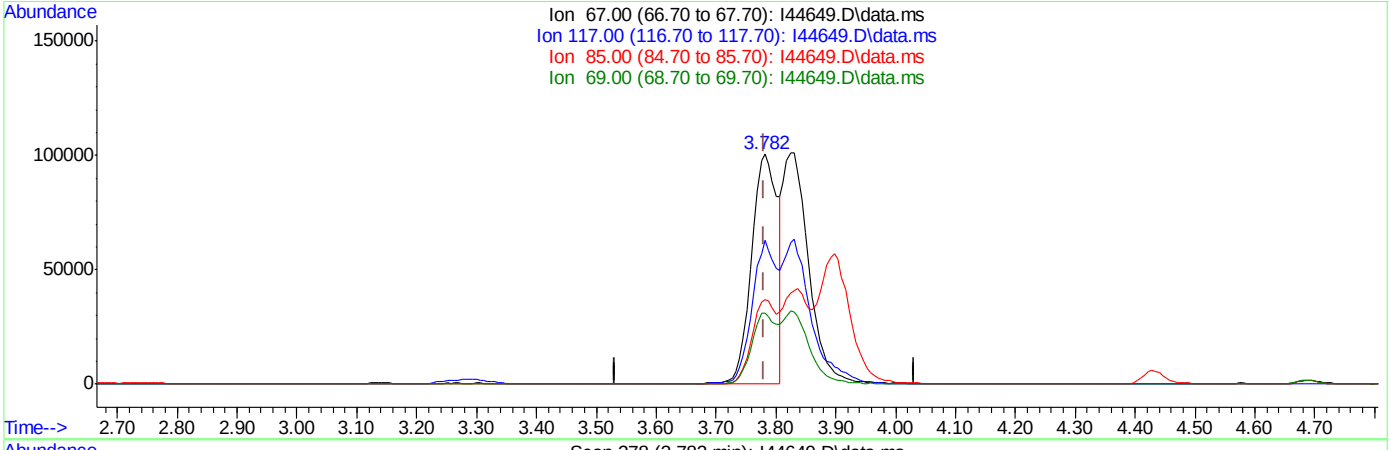
Sample Number:	VI1229-CC1214	**Method:**	SW846 8260B
Lab FileID:	I44649.D	**Analyst approved:**	12/30/16 11:11 Wilfredo Vazquez
Injection Time:	12/30/16 09:35	**Supervisor approved:**	01/03/17 16:18 Juan Garcia

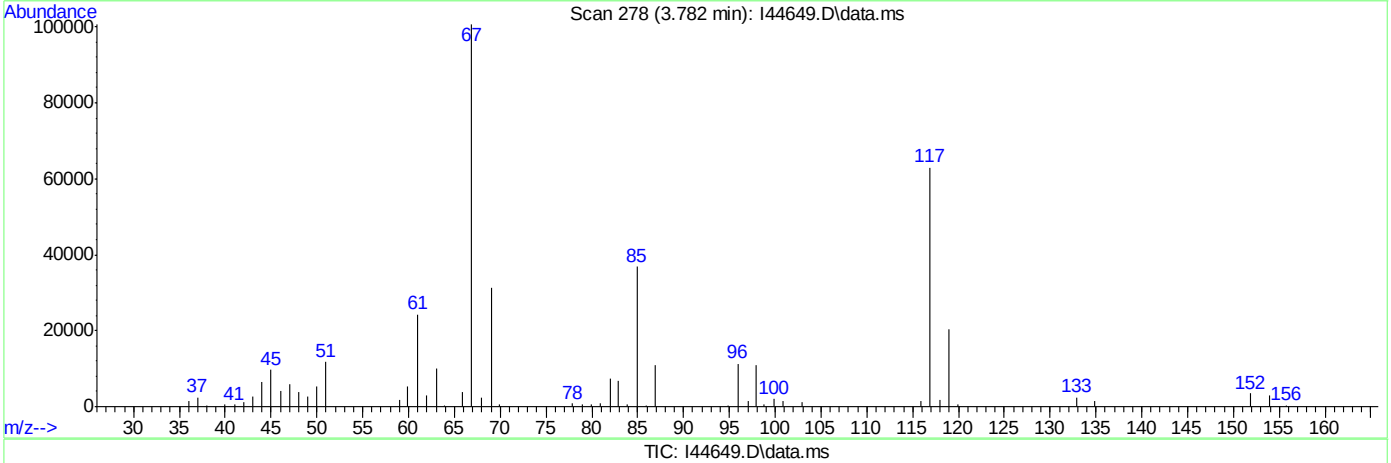
Parameter	CAS	Sig#	R.T. (min.)	Reason
Ethyl Alcohol	64-17-5		3.73	Poor instrument integration
1,2-Dichlorotrifluoroethane	354-23-4		3.83	Split peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\DATA\123016\
Data File : I44649.D
Acq On : 30 Dec 2016 9:35 am
Operator : WILFREDO
Sample : CC1214-5 Inst : MSVOA16
Misc : MS35962,VI1229,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Dec 30 11:03:36 2016
Quant Method : C:\msdchem\2\METHODS\I-DEC22.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Dec 23 09:02:35 2016
Response via : Initial Calibration





TIC: I44649.D\data.ms

(10) 1,2-Dichlorotrifluoroethane

3.782min (+0.000) 18.57ug/L

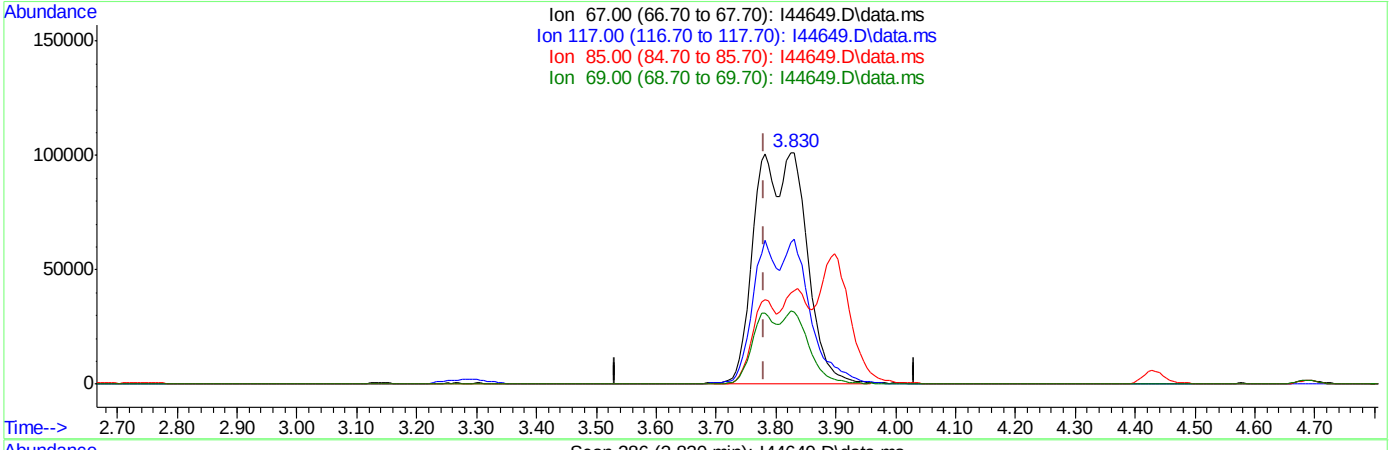
response 303107

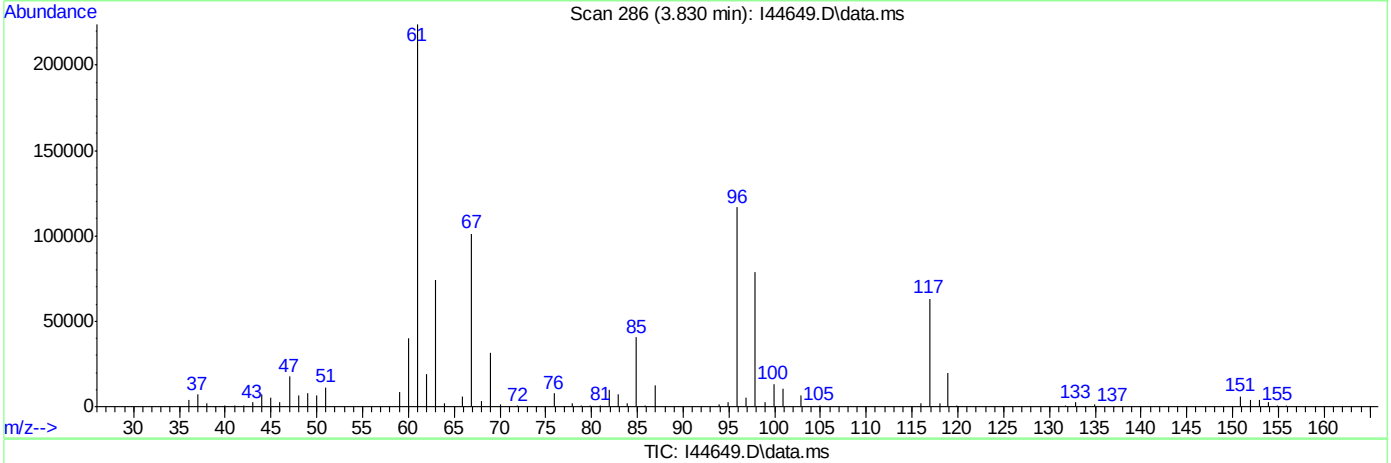
Ion	Exp%	Act%
67.00	100	100
117.00	57.70	62.53
85.00	36.80	36.57
69.00	29.70	31.09

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\DATA\123016\
Data File : I44649.D
Acq On : 30 Dec 2016 9:35 am
Operator : WILFREDO
Sample : CC1214-5 Inst : MSVOA16
Misc : MS35962,VI1229,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Dec 30 11:03:36 2016
Quant Method : C:\msdchem\2\METHODS\I-DEC22.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Dec 23 09:02:35 2016
Response via : Initial Calibration





TIC: I44649.D\data.ms

(10) 1,2-Dichlorotrifluoroethane

3.830min (+0.049) 36.90ug/L m

response 602249

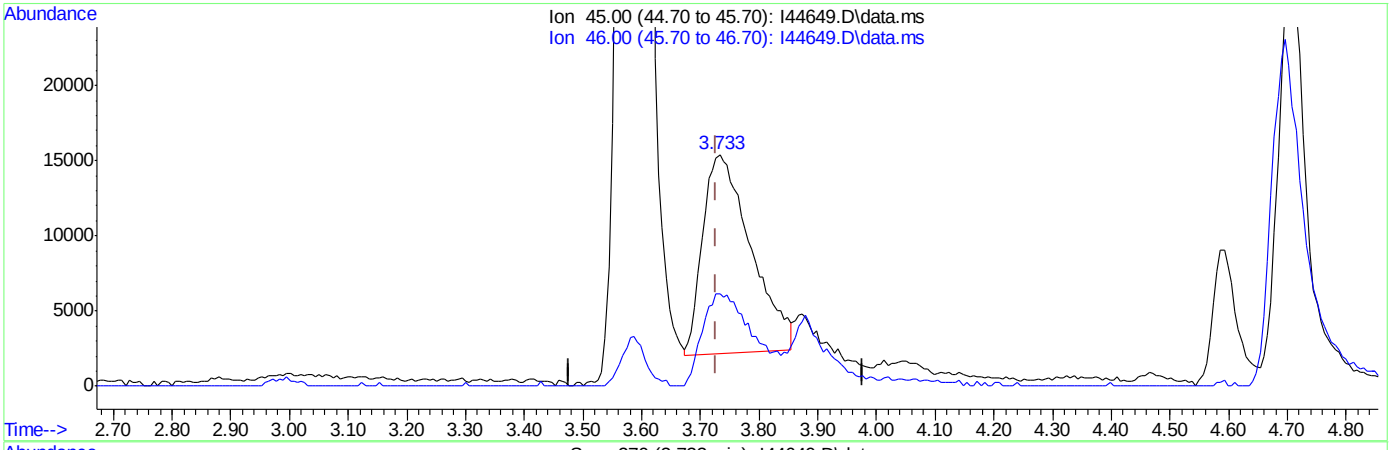
Ion	Exp%	Act%
67.00	100	100
117.00	57.70	62.55
85.00	36.80	40.11
69.00	29.70	31.30

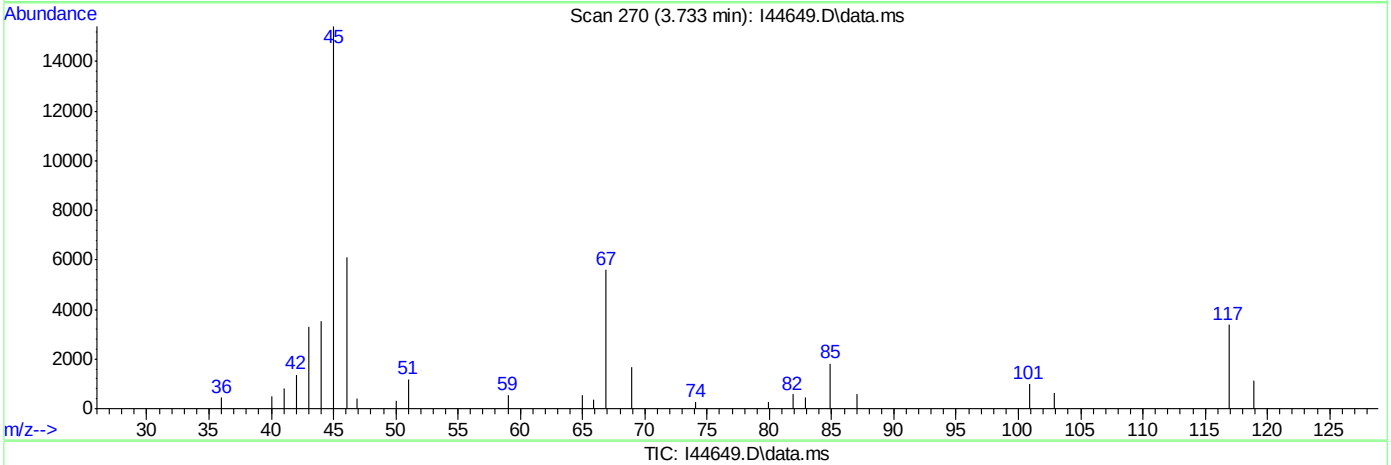
SGS ACCUTEST FA39742

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\DATA\123016\
Data File : I44649.D
Acq On : 30 Dec 2016 9:35 am
Operator : WILFREDO
Sample : CC1214-5 Inst : MSVOA16
Misc : MS35962,VI1229,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Dec 30 11:03:36 2016
Quant Method : C:\msdchem\2\METHODS\I-DEC22.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Dec 23 09:02:35 2016
Response via : Initial Calibration





TIC: I44649.D\data.ms

(107) Ethanol

3.733min (+0.006) 592.18ug/L

response 75273

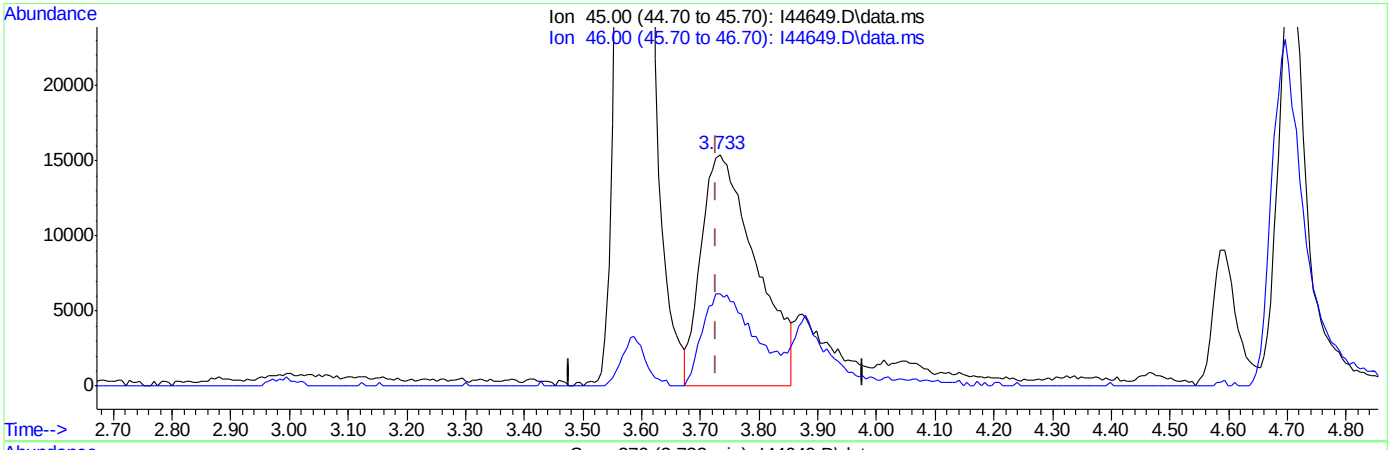
Ion	Exp%	Act%
45.00	100	100
46.00	37.40	47.09
0.00	0.00	0.00
0.00	0.00	0.00

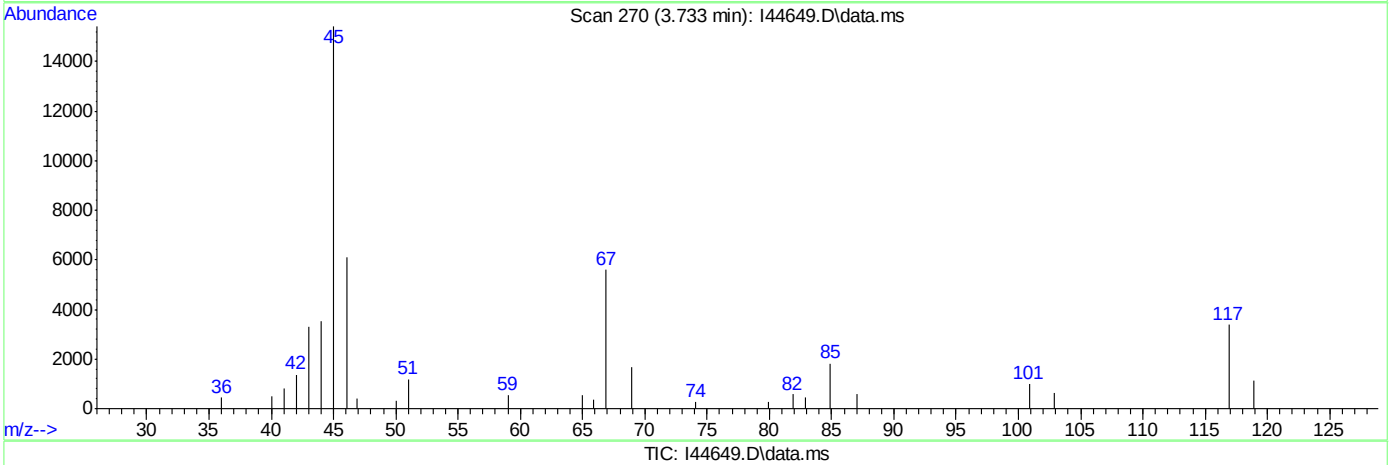
SGS ACCUTEST FA39742

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\DATA\123016\
Data File : I44649.D
Acq On : 30 Dec 2016 9:35 am
Operator : WILFREDO
Sample : CC1214-5 Inst : MSVOA16
Misc : MS35962,VI1229,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Dec 30 11:03:36 2016
Quant Method : C:\msdchem\2\METHODS\I-DEC22.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Dec 23 09:02:35 2016
Response via : Initial Calibration





TIC: I44649.D\data.ms

(107) Ethanol

3.733min (+0.006) 785.40ug/L m

response 99833

Ion	Exp%	Act%
45.00	100	100
46.00	37.40	39.66
0.00	0.00	0.00
0.00	0.00	0.00

SGS ACCUTEST FA39742

Manual Integrations APPROVED (compounds with "m" flag)
Juan Garcia
01/03/17 16:18

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\123016\
Data File : I44678.D
Acq On : 30 Dec 2016 9:19 pm
Operator : WILFREDO
Sample : ECC1214-5 Inst : MSVOA16
Misc : MS35973,VI1229,,,,,
ALS Vial : 27 Sample Multiplier: 1

Quant Time: Dec 31 11:33:05 2016
Quant Method : C:\msdchem\2\METHODS\I-DEC22.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Dec 23 09:02:35 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.110	96	2308963	50.00	ug/L	0.00
56) Chlorobenzene-d5	10.226	117	1551471	50.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	12.591	152	743281	50.00	ug/L	0.00
106) Tert Butyl Alcohol-d10	4.696	65	224493	250.00	ug/L	0.00
System Monitoring Compounds						
36) Dibromofluoromethane	6.275	113	585920	50.27	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 100.54%			
46) 1,2-Dichloroethane-d4	6.830	65	783062	47.57	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 95.14%			
57) Toluene-d8	8.677	98	2178296	51.35	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 102.70%			
79) 4-Bromofluorobenzene	11.439	174	552521	51.04	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 102.08%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.270	85	530089	34.46	ug/L	100
3) Chloromethane	2.483	50	854185	36.83	ug/L	100
4) 1,3-Butadiene	2.611	39	499896	31.14	ug/L	99
5) Vinyl Chloride	2.605	62	662505	37.45	ug/L	99
6) Bromomethane	2.977	94	169721	33.33	ug/L	98
7) Chloroethane	3.136	64	216952	33.67	ug/L	99
8) Trichlorofluoromethane	3.294	101	630231	37.17	ug/L	99
9) Ethyl Ether	3.587	59	525655	38.82	ug/L	99
10) 1,2-Dichlorotrifluoroe...	3.824	67	583668m	37.34	ug/L	
11) 1,1-Dichloroethene	3.824	61	861044	38.71	ug/L	99
12) Freon 113	3.898	101	458592	37.75	ug/L	99
13) Carbon Disulfide	3.879	76	1534844	40.19	ug/L	99
14) Iodomethane	3.989	142	664766	38.71	ug/L	99
15) Allyl chloride	4.318	41	826664	40.67	ug/L	98
16) Methylene Chloride	4.428	49	831927	39.05	ug/L	99
17) Acetone	4.471	43	646418	185.67	ug/L	99
18) Methyl acetate	4.593	43	1860591	203.54	ug/L	99
19) trans-1,2-Dichloroethene	4.611	61	809868	38.63	ug/L	97
20) Hexane	4.690	56	595248	36.38	ug/L	98
21) Methyl Tert Butyl Ether	4.708	73	1258335	39.32	ug/L	96
22) Acetonitrile	4.958	41	524207	473.36	ug/L	99
23) Di-isopropyl ether	5.086	45	2028960	40.56	ug/L	99
24) Chloroprene	5.227	53	1042106	45.50	ug/L	100
25) 1,1-Dichloroethane	5.251	63	972741	39.39	ug/L	99
26) Acrylonitrile	5.281	53	999133	200.16	ug/L	98
27) ETBE	5.470	59	1798462	40.52	ug/L	100
28) Vinyl acetate	5.470	43	5714102	190.11	ug/L	99
29) cis-1,2-Dichloroethene	5.812	96	501590	40.53	ug/L	98
30) 2,2-Dichloropropane	5.934	77	443954	36.69	ug/L	98
31) Bromochloromethane	6.025	128	230412	40.07	ug/L	96
32) Cyclohexane	6.056	56	1085617	40.01	ug/L	100
33) Chloroform	6.086	83	894081	38.08	ug/L	98
34) Ethyl acetate	6.172	43	2580535	198.64	ug/L	100

SGS ACCUTEST FA39742

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\123016\
Data File : I44678.D
Acq On : 30 Dec 2016 9:19 pm
Operator : WILFREDO
Sample : ECC1214-5 Inst : MSVOA16
Misc : MS35973,VI1229,,,,,
ALS Vial : 27 Sample Multiplier: 1

Quant Time: Dec 31 11:33:05 2016
Quant Method : C:\msdchem\2\METHODS\I-DEC22.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Dec 23 09:02:35 2016
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
35)	Tetrahydrofuran	6.269	42	139350	40.01	ug/L	96
37)	Carbon Tetrachloride	6.269	117	555082	40.21	ug/L	99
38)	1,1,1-Trichloroethane	6.330	97	733803	39.76	ug/L	99
39)	2-Butanone	6.385	43	1072474	211.78	ug/L	98
40)	1,1-Dichloropropene	6.452	75	670615	40.54	ug/L	99
41)	tert-Butyl formate	6.531	59	3660100	405.58	ug/L	98
42)	Propionitrile	6.690	54	831208	445.98	ug/L	92
43)	Methacrylonitrile	6.714	41	3227289	422.79	ug/L	98
44)	Benzene	6.702	78	1725678	39.24	ug/L	97
45)	TAME	6.793	73	1242753	40.35	ug/L	97
47)	1,2-Dichloroethane	6.897	62	714559	36.22	ug/L	99
48)	Trichloroethene	7.293	95	493346	38.35	ug/L	98
49)	Methylcyclohexane	7.305	83	852022	39.64	ug/L	100
50)	Dibromomethane	7.720	93	286252	39.65	ug/L	99
51)	1,2-Dichloropropane	7.811	63	552297	40.16	ug/L	98
52)	Bromodichloromethane	7.860	83	604005	42.03	ug/L	100
53)	Methyl methacrylate	7.982	41	434885	41.53	ug/L	99
54)	2-Chloroethyl vinyl ether	8.391	63	1629863	195.04	ug/L	100
55)	cis-1,3-Dichloropropene	8.482	75	721704	37.54	ug/L	99
58)	Toluene	8.726	91	1724187	39.38	ug/L	100
59)	2-Nitropropane	8.933	41	542155	186.81	ug/L	99
60)	4-Methyl-2-pentanone	9.061	43	2603874	213.53	ug/L	100
61)	trans-1,3-Dichloropropene	9.122	75	603842	38.09	ug/L	98
62)	Tetrachloroethene	9.128	166	601565	51.33	ug/L	98
63)	Ethyl methacrylate	9.244	69	623618	42.62	ug/L	98
64)	1,1,2-Trichloroethane	9.281	83	343738	39.64	ug/L	99
65)	Dibromochloromethane	9.482	129	386629	37.23	ug/L	99
66)	1,3-Dichloropropane	9.561	76	727333	40.54	ug/L	99
67)	1,2-Dibromoethane	9.732	107	378348	41.70	ug/L	99
68)	2-hexanone	9.884	43	1826068	208.25	ug/L	98
69)	1-Chlorohexane	10.189	91	664418	42.01	ug/L	99
70)	Ethylbenzene	10.250	91	1998729	40.53	ug/L	99
71)	Chlorobenzene	10.244	112	1204764	38.96	ug/L	100
72)	1,1,1,2-Tetrachloroethane	10.293	131	385890	41.88	ug/L	98
73)	m,p-Xylene	10.390	91	3131814	82.74	ug/L	100
74)	o-Xylene	10.829	91	1663198	42.47	ug/L	99
75)	Styrene	10.878	104	1107212	37.49	ug/L	99
76)	Bromoform	10.927	173	193057	36.61	ug/L	98
77)	Isopropylbenzene	11.134	105	1965991	42.60	ug/L	100
80)	cis-1,4-Dichloro-2-butene	11.481	53	84540	51.04	ug/L	94
81)	n-Propylbenzene	11.555	91	2445921	40.81	ug/L	100
82)	Bromobenzene	11.561	156	425493	39.72	ug/L	100
83)	1,1,2,2-Tetrachloroethane	11.616	83	514929	39.02	ug/L	99
84)	1,3,5-Trimethylbenzene	11.744	105	1558074	42.30	ug/L	99
85)	2-Chlorotoluene	11.737	91	1625105	40.53	ug/L	99
86)	trans-1,4-Dichloro-2-B...	11.798	53	98466	44.61	ug/L	98
87)	1,2,3-Trichloropropane	11.768	110	135455	39.58	ug/L	99
88)	Cyclohexanone	11.829	55	81180	157.31	ug/L	99
89)	4-Chlorotoluene	11.902	91	1479151	40.56	ug/L	100
90)	tert-Butylbenzene	12.079	91	994683	40.62	ug/L	100

SGS ACCUTEST FA39742

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\123016\
Data File : I44678.D
Acq On : 30 Dec 2016 9:19 pm
Operator : WILFREDO
Sample : ECC1214-5 Inst : MSVOA16
Misc : MS35973,VI1229,,,,,
ALS Vial : 27 Sample Multiplier: 1

Quant Time: Dec 31 11:33:05 2016
Quant Method : C:\msdchem\2\METHODS\I-DEC22.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Dec 23 09:02:35 2016
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
91)	a-Methyl styrene	12.006	118	962948	42.10	ug/L		99
92)	1,2,4-Trimethylbenzene	12.152	105	1516296	41.66	ug/L		99
93)	Pentachloroethane	12.122	167	117090	23.86	ug/L		97
94)	sec-Butylbenzene	12.262	105	2107811	41.08	ug/L		99
95)	4-Isopropyltoluene	12.402	119	1577884	38.12	ug/L		100
96)	1,3-Dichlorobenzene	12.518	146	858048	39.72	ug/L		100
97)	1,4-Dichlorobenzene	12.609	146	909136	40.43	ug/L		96
98)	n-Butylbenzene	12.841	92	972901	37.77	ug/L		94
99)	Benzyl Chloride	12.847	126	143874	34.90	ug/L	#	67
100)	1,2-Dichlorobenzene	13.048	146	835857	40.09	ug/L		100
101)	1,2-Dibromo-3-Chloropr...	13.829	75	72461	34.96	ug/L		96
102)	Hexachlorobutadiene	14.414	225	219105	39.89	ug/L		98
103)	1,2,4-Trichlorobenzene	14.450	180	500263	36.57	ug/L		99
104)	Naphthalene	14.731	128	1127242	36.97	ug/L		100
105)	1,2,3-Trichlorobenzene	14.889	180	462270	42.42	ug/L		100
107)	Ethanol	3.727	45	103122m	836.38	ug/L		
108)	Acrolein	4.166	56	444402	209.14	ug/L		99
109)	Tert Butyl Alcohol	4.769	59	472481	420.79	ug/L		100
110)	Isobutyl alcohol	6.842	43	440101	907.63	ug/L		89
111)	Tert Amyl Alcohol	6.952	59	350622	399.35	ug/L		98
112)	1,4-Dioxane	8.049	88	73795	751.94	ug/L		98
113)	3,3-Dimethyl-1-butanol	9.842	57	2060208	1873.33	ug/L		100

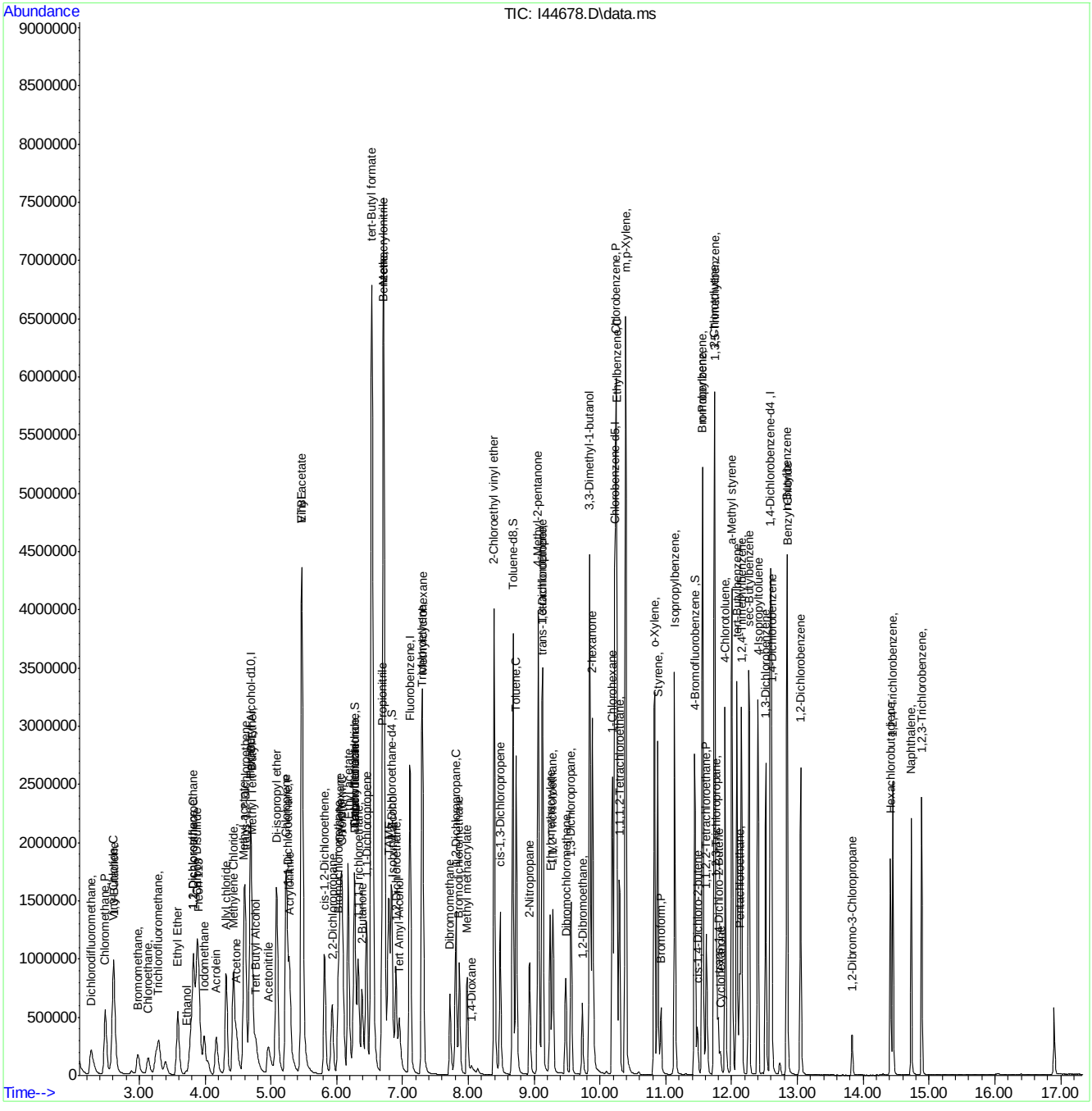
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST FA39742

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\123016\
Data File : I44678.D
Acq On : 30 Dec 2016 9:19 pm
Operator : WILFREDO
Sample : ECC1214-5 Inst : MSVOA16
Misc : MS35973,VI1229,,,,,
ALS Vial : 27 Sample Multiplier: 1

Quant Time: Dec 31 11:33:05 2016
Quant Method : C:\msdchem\2\METHODS\I-DEC22.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Dec 23 09:02:35 2016
Response via : Initial Calibration



SGS ACCUTEST FA39742

Manual Integration Approval Summary

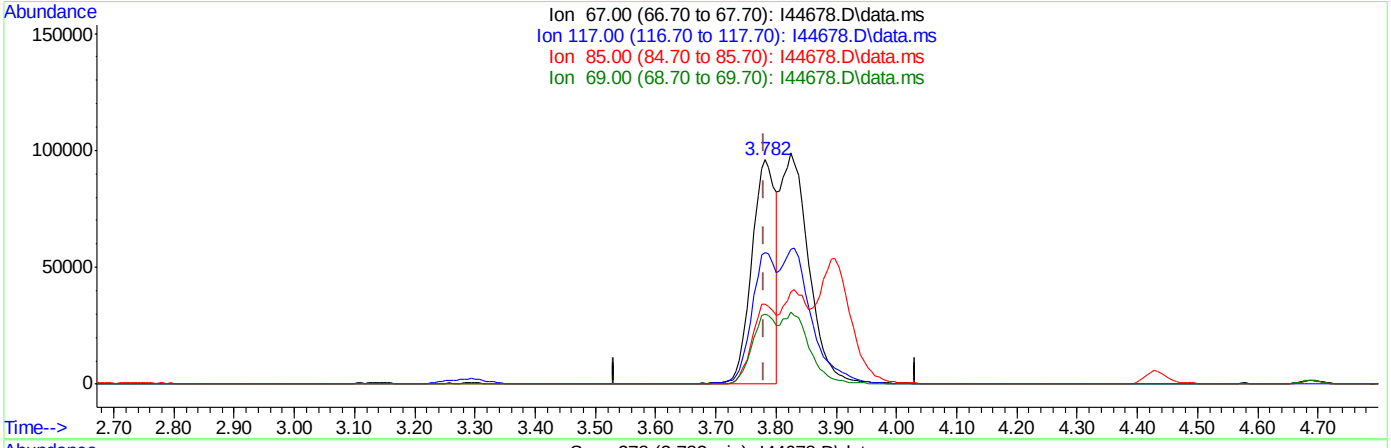
Sample Number:	VI1229-ECC1214	**Method:**	SW846 8260B
Lab FileID:	I44678.D	**Analyst approved:**	12/31/16 11:38 Wilfredo Vazquez
Injection Time:	12/30/16 21:19	**Supervisor approved:**	01/03/17 16:18 Juan Garcia

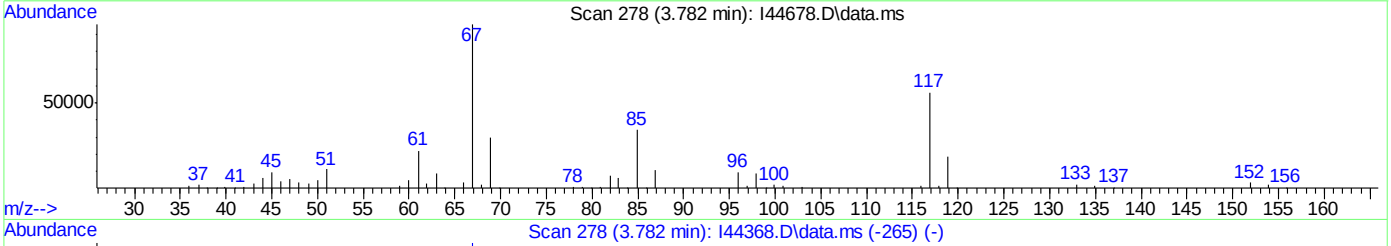
Parameter	CAS	Sig#	R.T. (min.)	Reason
Ethyl Alcohol	64-17-5		3.73	Poor instrument integration
1,2-Dichlorotrifluoroethane	354-23-4		3.82	Split peak

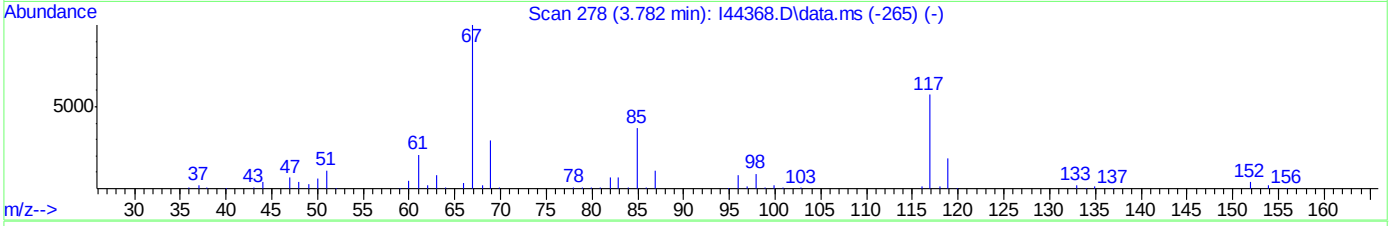
Quantitation Report (Qedit)

Data Path : C:\msdchem\2\DATA\123016\
Data File : I44678.D
Acq On : 30 Dec 2016 9:19 pm
Operator : WILFREDO
Sample : ECC1214-5 Inst : MSVOA16
Misc : MS35973,VI1229,,,,,
ALS Vial : 27 Sample Multiplier: 1

Quant Time: Dec 31 10:57:40 2016
Quant Method : C:\msdchem\2\METHODS\I-DEC22.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Dec 23 09:02:35 2016
Response via : Initial Calibration







TIC: I44678.D\data.ms

(10) 1,2-Dichlorotrifluoroethane

3.782min (+0.000) 16.75ug/L

response 261864

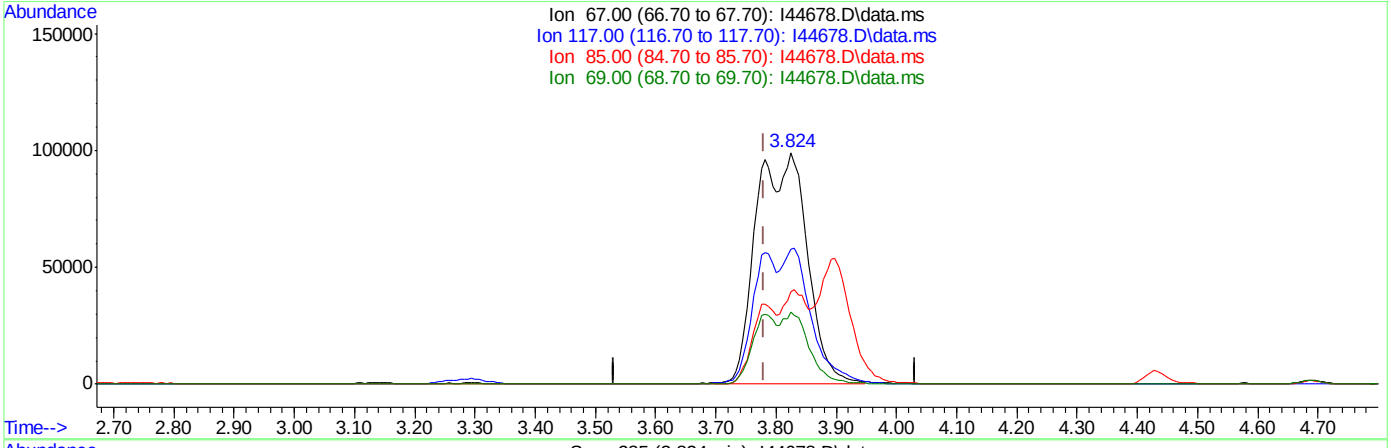
Ion	Exp%	Act%
67.00	100	100
117.00	57.70	58.48
85.00	36.80	35.75
69.00	29.70	31.20

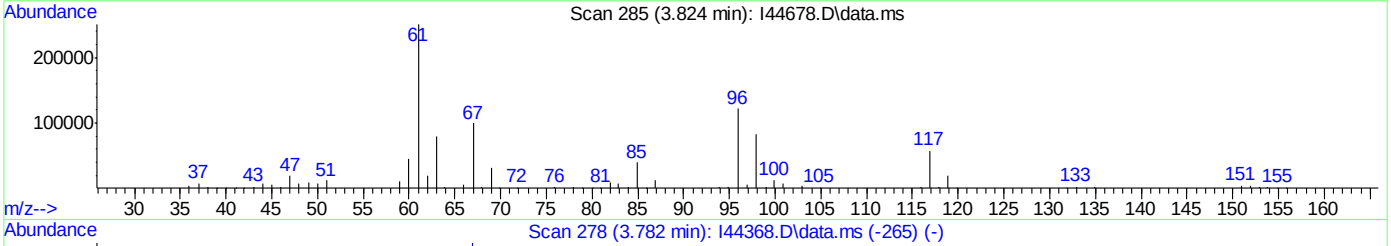
SGS ACCUTEST FA39742

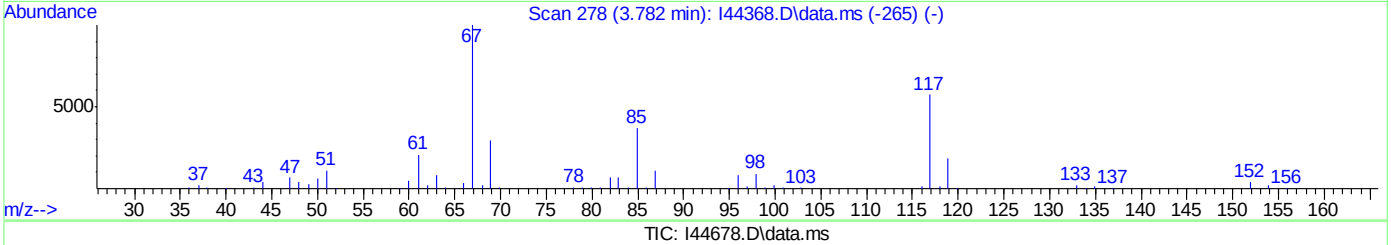
Quantitation Report (Qedit)

Data Path : C:\msdchem\2\DATA\123016\
Data File : I44678.D
Acq On : 30 Dec 2016 9:19 pm
Operator : WILFREDO
Sample : ECC1214-5 Inst : MSVOA16
Misc : MS35973,VI1229,,,,,
ALS Vial : 27 Sample Multiplier: 1

Quant Time: Dec 31 10:57:40 2016
Quant Method : C:\msdchem\2\METHODS\I-DEC22.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Dec 23 09:02:35 2016
Response via : Initial Calibration







TIC: I44678.D\data.ms

(10) 1,2-Dichlorotrifluoroethane

3.824min (+0.043) 37.34ug/L m

response 583668

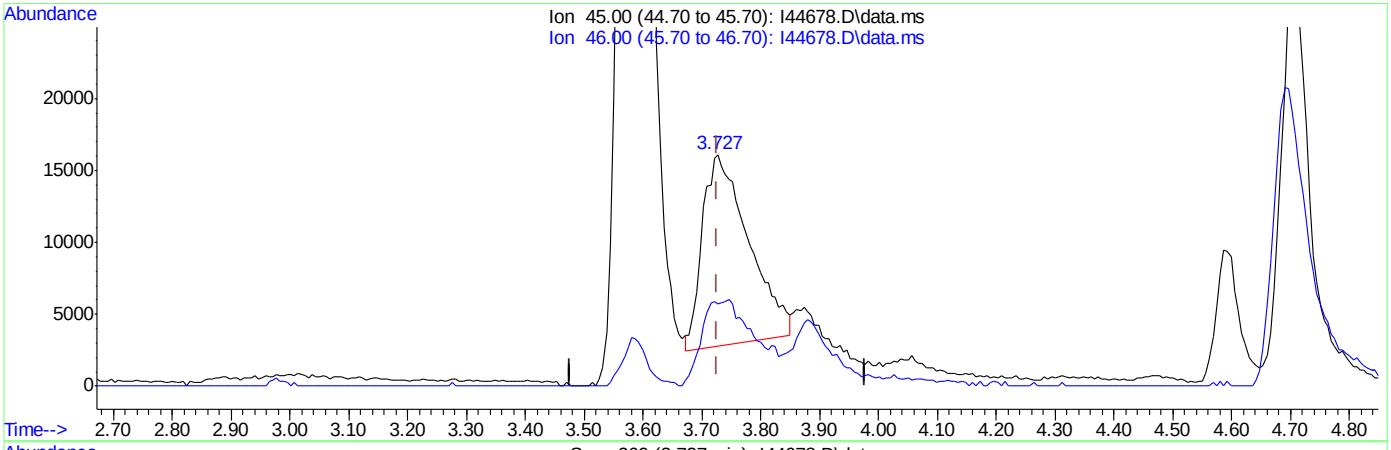
Ion	Exp%	Act%
67.00	100	100
117.00	57.70	58.09
85.00	36.80	40.07
69.00	29.70	31.08

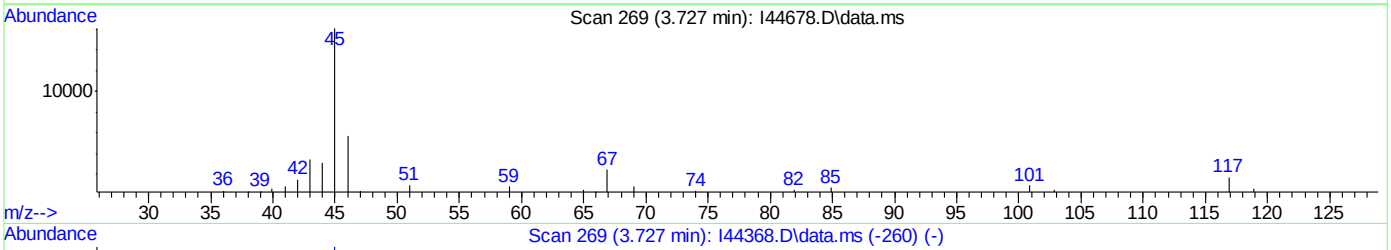
SGS ACCUTEST FA39742

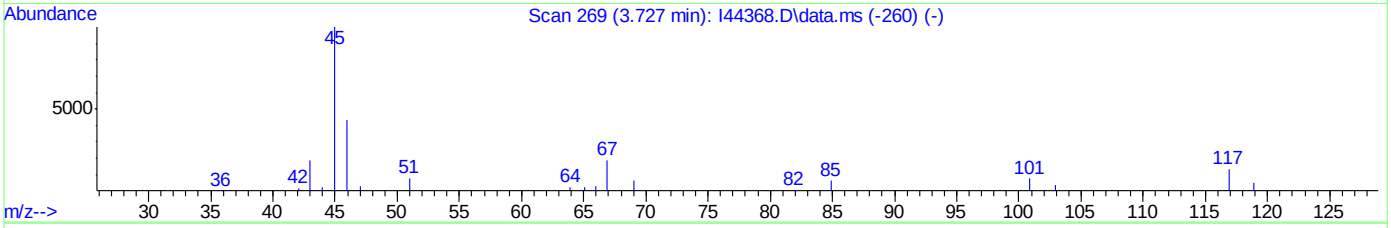
Quantitation Report (Qedit)

Data Path : C:\msdchem\2\DATA\123016\
Data File : I44678.D
Acq On : 30 Dec 2016 9:19 pm
Operator : WILFREDO
Sample : ECC1214-5 Inst : MSVOA16
Misc : MS35973,VI1229,,,,,
ALS Vial : 27 Sample Multiplier: 1

Quant Time: Dec 31 10:57:40 2016
Quant Method : C:\msdchem\2\METHODS\I-DEC22.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Dec 23 09:02:35 2016
Response via : Initial Calibration







TIC: I44678.D\data.ms

(107) Ethanol

3.727min (-0.000) 591.14ug/L

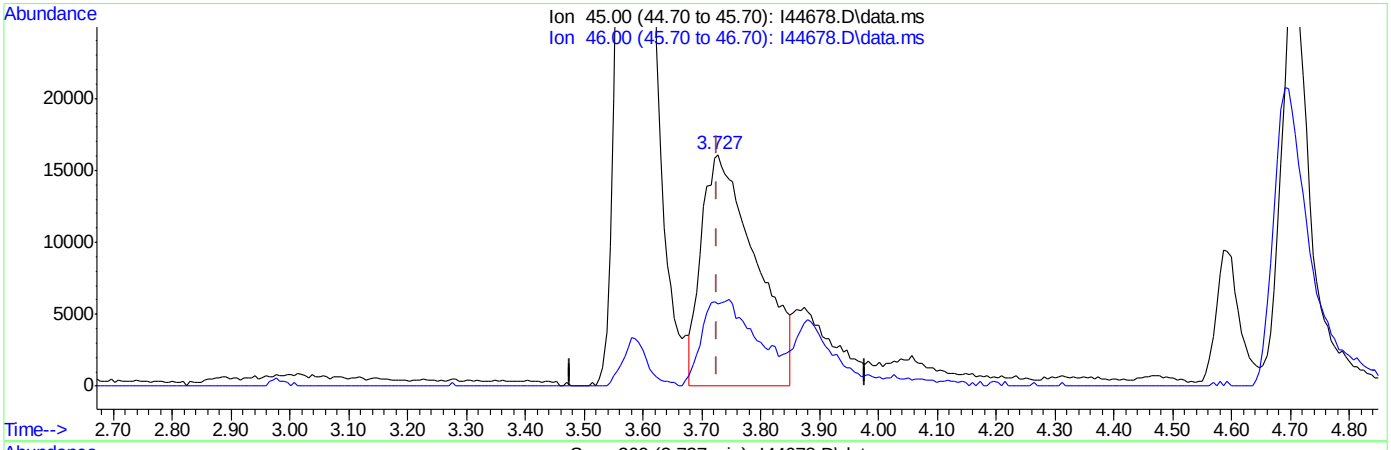
response 72885

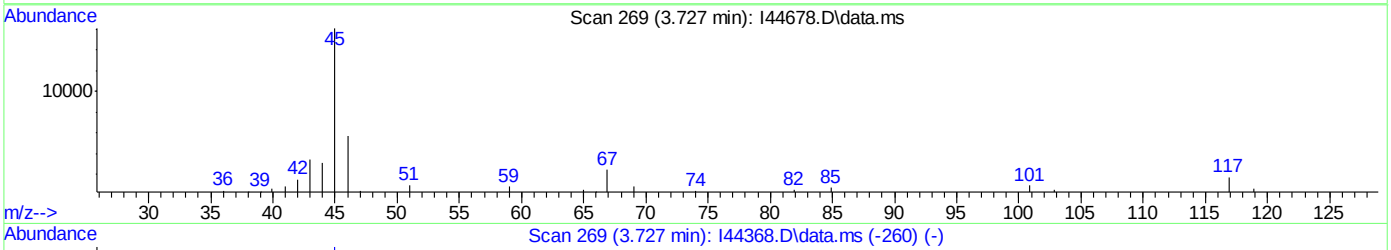
Ion	Exp%	Act%
45.00	100	100
46.00	37.40	42.29
0.00	0.00	0.00
0.00	0.00	0.00

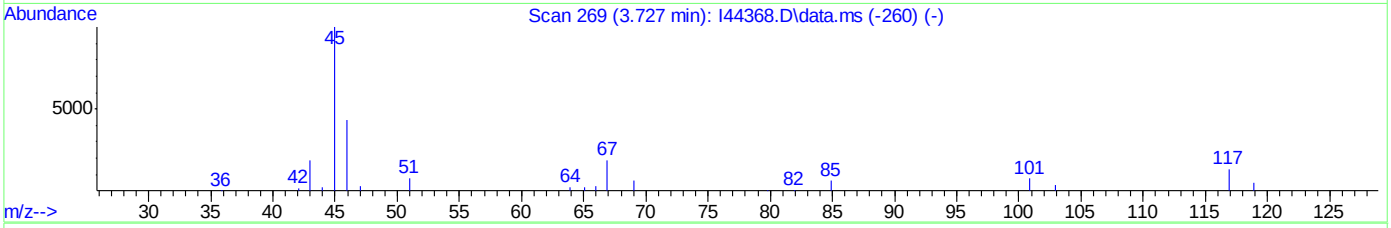
Quantitation Report (Qedit)

Data Path : C:\msdchem\2\DATA\123016\
Data File : I44678.D
Acq On : 30 Dec 2016 9:19 pm
Operator : WILFREDO
Sample : ECC1214-5 Inst : MSVOA16
Misc : MS35973,VI1229,,,,,
ALS Vial : 27 Sample Multiplier: 1

Quant Time: Dec 31 10:57:40 2016
Quant Method : C:\msdchem\2\METHODS\I-DEC22.M
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri Dec 23 09:02:35 2016
Response via : Initial Calibration







TIC: I44678.D\data.ms

(107) Ethanol

3.727min (-0.000) 836.38ug/L m

response 103122

Ion	Exp%	Act%
45.00	100	100
46.00	37.40	35.61
0.00	0.00	0.00
0.00	0.00	0.00

SGS ACCUTEST FA39742

Manual Integrations APPROVED (compounds with "m" flag)
Juan Garcia
01/03/17 15:48

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\123016\
Data File : J0981876.D
Acq On : 30 Dec 2016 12:50 pm
Operator : melissam
Sample : ic5529-1 Inst : MSVOA6
Misc : MS35465,VJ5529,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 03 08:16:27 2017
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Dec 30 13:30:44 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.734	96	711241	50.00	ug/L	0.00
56) Chlorobenzene-d5	10.824	117	528113	50.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	13.181	152	273614	50.00	ug/L	0.00
106) Tert Butyl Alcohol-d10	5.278	65	90811	250.00	ug/L	-0.01
System Monitoring Compounds						
36) Dibromofluoromethane	6.900	113	175184	43.01	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 86.02%			
46) 1,2-Dichloroethane-d4	7.452	65	232869	40.95	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 81.90%			
57) Toluene-d8	9.279	98	691212	52.80	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 105.60%			
79) 4-Bromofluorobenzene	12.035	95	281376	62.11	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 124.22%#			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.651	85	6792	0.81	ug/L	82
3) Chloromethane	2.863	50	10848	0.75	ug/L	83
4) Vinyl Chloride	3.004	62	6478	0.51	ug/L	76
5) 1,3-Butadiene	2.998	54	6412	0.63	ug/L #	79
6) Bromomethane	3.421	94	6497m	0.87	ug/L	
7) Chloroethane	3.592	64	4824m	0.82	ug/L	
8) Trichlorofluoromethane	3.803	101	7578m	0.39	ug/L	
9) Ethyl Ether	4.103	59	5922	0.78	ug/L #	76
10) 1,2-Dichlorotrifluoroe...	4.344	67	7306m	0.74	ug/L	
11) 1,1-Dichloroethene	4.373	61	9084	0.72	ug/L	75
12) Freon 113	4.432	101	4756m	0.53	ug/L	
13) Carbon Disulfide	4.449	76	19440	0.74	ug/L	95
14) Iodomethane	4.561	142	10505	0.77	ug/L #	74
15) Allyl chloride	4.896	41	14546	0.95	ug/L #	72
16) Methylene Chloride	5.025	49	16882	1.08	ug/L	88
17) Acetone	5.055	58	2937	4.26	ug/L #	44
18) Methyl acetate	5.196	74	3660	3.40	ug/L #	14
19) trans-1,2-Dichloroethene	5.207	61	9348	0.82	ug/L	87
20) Hexane	5.278	56	6180	0.64	ug/L #	52
21) Methyl Tert Butyl Ether	5.307	73	18635	0.89	ug/L	78
22) Acetonitrile	5.583	40	6093m	10.17	ug/L	
23) Di-isopropyl ether	5.689	45	24244	0.74	ug/L	81
24) Chloroprene	5.848	53	10405	0.72	ug/L	94
25) 1,1-Dichloroethane	5.865	63	11264	0.67	ug/L	93
26) Acrylonitrile	5.918	53	10405m	3.16	ug/L	
27) ETBE	6.095	59	22588	0.77	ug/L	89
28) Vinyl acetate	6.100	43	67633	3.05	ug/L	97
29) cis-1,2-Dichloroethene	6.453	96	7680	1.04	ug/L #	77
30) 2,2-Dichloropropane	6.582	77	9775	0.83	ug/L	93
31) Bromochloromethane	6.665	128	3874	0.95	ug/L #	75
32) Cyclohexane	6.706	56	11643m	0.71	ug/L	
33) Chloroform	6.723	83	12871	0.84	ug/L	93
34) Ethyl acetate	6.794	43	27853	3.20	ug/L	98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\123016\
Data File : J0981876.D
Acq On : 30 Dec 2016 12:50 pm
Operator : melissam
Sample : ic5529-1 Inst : MSVOA6
Misc : MS35465,VJ5529,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 03 08:16:27 2017
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Dec 30 13:30:44 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
35) Tetrahydrofuran	6.911	42	4098	1.73 ug/L #	69
37) Carbon Tetrachloride	6.905	117	7215	0.60 ug/L #	58
38) 1,1,1-Trichloroethane	6.976	97	9704	0.75 ug/L	74
39) 2-Butanone	7.029	43	18192m	5.41 ug/L	
40) 1,1-Dichloropropene	7.076	75	7930	1.53 ug/L #	78
41) tert-Butyl Formate	7.164	59	71755	10.35 ug/L #	71
42) Propionitrile	7.317	54	9682	8.22 ug/L	75
43) Methacrylonitrile	7.340	41	47259	8.37 ug/L	98
44) Benzene	7.334	78	20978	0.82 ug/L	87
45) TAME	7.405	73	16964	0.75 ug/L	85
47) 1,2-Dichloroethane	7.528	62	8808	0.71 ug/L	68
48) Trichloroethene	7.916	95	6435	0.84 ug/L #	76
49) Methylcyclohexane	7.934	83	9546	0.66 ug/L #	82
50) Dibromomethane	8.345	93	3788	0.80 ug/L	89
51) 1,2-Dichloropropane	8.433	63	6200	0.79 ug/L	89
52) Bromodichloromethane	8.474	83	8761	0.84 ug/L	85
53) Methyl methacrylate	8.586	41	9454m	1.39 ug/L	
54) 2-Chloroethyl vinyl ether	8.991	63	18874	3.60 ug/L	92
55) cis-1,3-Dichloropropene	9.085	75	9138	0.70 ug/L	95
58) Toluene	9.332	91	24452	0.95 ug/L	98
59) 2-Nitropropane	9.538	41	9882m	4.80 ug/L	
60) 4-Methyl-2-pentanone	9.655	43	34111	4.14 ug/L	90
61) trans-1,3-Dichloropropene	9.726	75	8081	0.79 ug/L	86
62) Tetrachloroethene	9.743	166	5405	0.67 ug/L #	83
63) Ethyl methacrylate	9.837	69	9255	1.16 ug/L	77
64) 1,1,2-Trichloroethane	9.884	83	3784	0.70 ug/L #	77
65) Dibromochloromethane	10.084	129	5556	0.85 ug/L	86
66) 1,3-Dichloropropane	10.160	76	10465	0.94 ug/L	78
67) 1,2-Dibromoethane	10.354	107	5223	0.85 ug/L	77
68) 2-hexanone	10.478	43	21891m	3.70 ug/L	
69) 1-Chlorohexane	10.777	91	8106m	0.85 ug/L	
70) Ethylbenzene	10.842	91	28006	0.95 ug/L	96
71) Chlorobenzene	10.848	112	15492	0.79 ug/L	98
72) 1,1,1,2-Tetrachloroethane	10.895	131	6080	0.78 ug/L	90
73) m,p-Xylene	10.977	91	42150	1.56 ug/L	90
74) o-Xylene	11.424	91	25600	0.94 ug/L	97
75) Styrene	11.471	104	14812m	0.78 ug/L	
76) Bromoform	11.529	173	4076	0.93 ug/L #	68
77) Isopropylbenzene	11.723	105	28179	0.85 ug/L	89
81) n-Propylbenzene	12.146	91	35779	0.87 ug/L	95
82) Bromobenzene	12.164	156	7444	1.01 ug/L	99
83) 1,1,2,2-Tetrachloroethane	12.199	83	9242	1.21 ug/L	88
84) 1,3,5-Trimethylbenzene	12.323	105	23048	0.88 ug/L	91
85) 2-Chlorotoluene	12.334	91	25678m	0.92 ug/L	
86) trans-1,4-Dichloro-2-B...	12.387	53	2641	1.02 ug/L	86
87) 1,2,3-Trichloropropane	12.364	110	1863	0.78 ug/L	78
88) Cyclohexanone	12.428	55	2518m	8.38 ug/L	
89) 4-Chlorotoluene	12.505	91	21367	0.83 ug/L	91
90) a-Methyl Styrene	12.593	118	15663	1.06 ug/L	92
91) tert-Butylbenzene	12.663	91	17288	0.97 ug/L	91

SGS ACCUTEST FA39742

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\123016\
Data File : J0981876.D
Acq On : 30 Dec 2016 12:50 pm
Operator : melissam
Sample : ic5529-1 Inst : MSVOA6
Misc : MS35465,VJ5529,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 03 08:16:27 2017
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Dec 30 13:30:44 2016
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
92)	1,2,4-Trimethylbenzene	12.734	105	22008	0.81	ug/L		92
93)	Pentachloroethane	12.722	167	5131	1.03	ug/L	#	78
94)	sec-Butylbenzene	12.851	105	31466	0.85	ug/L		95
95)	4-Isopropyltoluene	12.981	119	23356	0.85	ug/L		96
96)	1,3-Dichlorobenzene	13.122	146	14356	0.93	ug/L		87
97)	1,4-Dichlorobenzene	13.198	146	16533m	1.00	ug/L		
98)	n-Butylbenzene	13.421	92	14260	0.87	ug/L	#	71
99)	Benzyl Chloride	13.433	126	2868	0.94	ug/L	#	73
100)	1,2-Dichlorobenzene	13.633	146	16885	1.09	ug/L		83
101)	1,2-Dibromo-3-Chloropr...	14.367	75	1629	1.16	ug/L	#	70
102)	Hexachlorobutadiene	14.914	225	6062	1.12	ug/L		93
103)	1,2,4-Trichlorobenzene	14.961	180	10778	1.08	ug/L		85
104)	Naphthalene	15.243	128	19413	1.00	ug/L		88
105)	1,2,3-Trichlorobenzene	15.413	180	10090	1.04	ug/L		94
108)	acrolein	4.755	56	5399m	3.05	ug/L		
109)	Tert Butyl Alcohol	5.366	59	9150m	10.12	ug/L		
110)	tert Amyl alcohol	7.546	59	6454	9.23	ug/L		83
111)	Isobutyl alcohol	7.434	42	5811	15.44	ug/L	#	71
112)	1,4-Dioxane	8.674	88	1375m	16.43	ug/L		
113)	3,3-Dimethyl-1-butanol	10.419	57	32283	38.03	ug/L		87

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

7.6.15

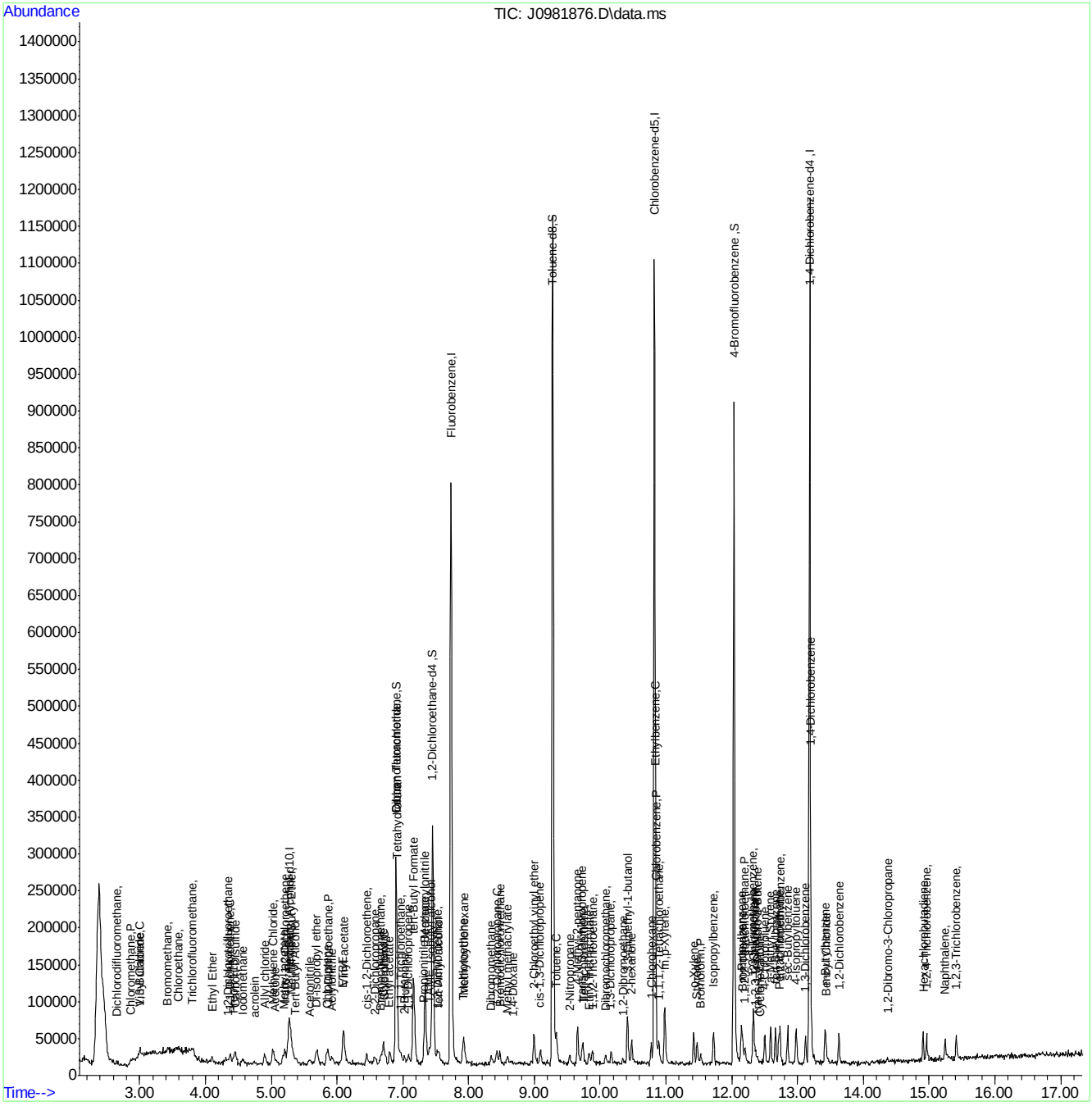
7

SGS ACCUTEST FA39742

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\123016\
Data File : J0981876.D
Acq On : 30 Dec 2016 12:50 pm
Operator : melissam
Sample : ic5529-1 Inst : MSVOA6
Misc : MS35465,VJ5529,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 03 08:16:27 2017
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Dec 30 13:30:44 2016
Response via : Initial Calibration



SGS ACCUTEST FA39742

Manual Integration Approval Summary

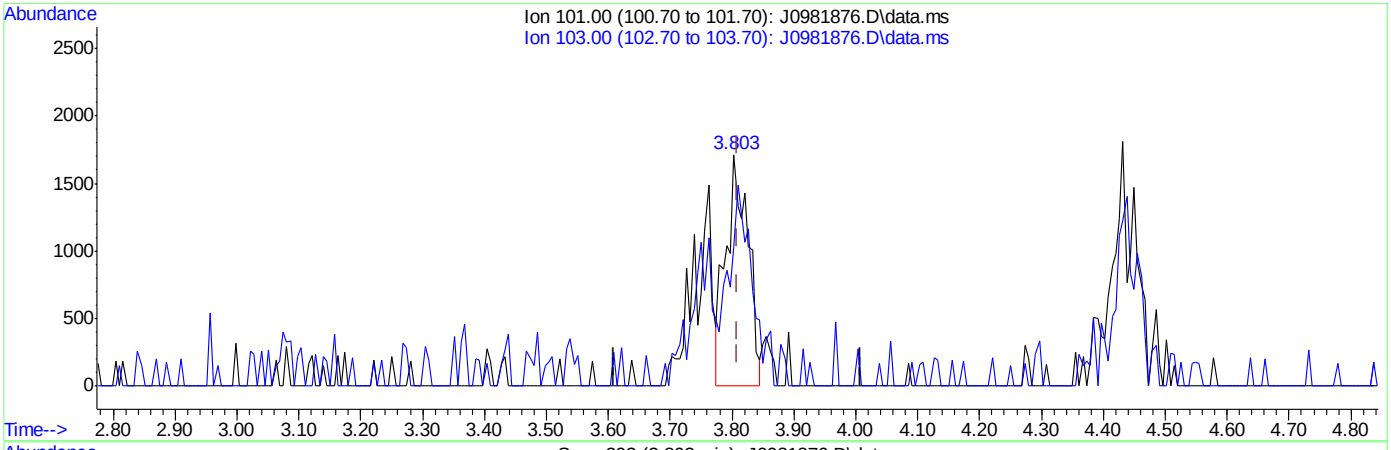
Sample Number: VJ5529-IC5529 **Method:** SW846 8260B
Lab FileID: J0981876.D **Analyst approved:** 01/03/17 10:07 Darshna Patel
Injection Time: 12/30/16 12:50 **Supervisor approved:** 01/03/17 15:48 Juan Garcia

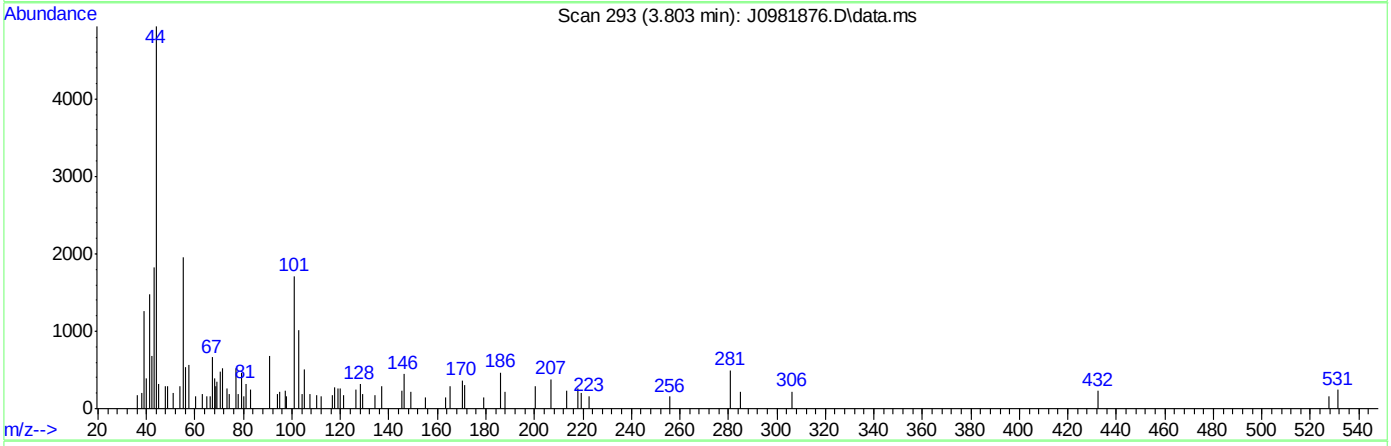
Parameter	CAS	Sig#	R.T. (min.)	Reason
Methyl Bromide	74-83-9		3.42	Poor instrument integration
Chloroethane	75-00-3		3.59	Poor instrument integration
Trichlorofluoromethane	75-69-4		3.80	Split peak
1,2-Dichlorotrifluoroethane	354-23-4		4.34	Poor instrument integration
Freon 113	76-13-1		4.43	Poor instrument integration
Acrolein	107-02-8		4.75	Poor instrument integration
Tert-Butyl Alcohol	75-65-0		5.37	Poor instrument integration
Acetonitrile	75-05-8		5.58	Poor instrument integration
Acrylonitrile	107-13-1		5.92	Poor instrument integration
Cyclohexane	110-82-7		6.71	Poor instrument integration
2-Butanone (MEK)	78-93-3		7.03	Poor instrument integration
Methyl Methacrylate	80-62-6		8.59	Poor instrument integration
1,4-Dioxane	123-91-1		8.67	Poor instrument integration
2-Nitropropane	79-46-9		9.54	Poor instrument integration
2-Hexanone	591-78-6		10.48	Poor instrument integration
1-Chlorohexane	544-10-5		10.78	Poor instrument integration
Styrene	100-42-5		11.47	Poor instrument integration
o-Chlorotoluene	95-49-8		12.33	Poor instrument integration
Cyclohexanone	108-94-1		12.43	Poor instrument integration
1,4-Dichlorobenzene	106-46-7		13.20	Poor instrument integration

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\123016\
Data File : J0981876.D
Acq On : 30 Dec 2016 12:50 pm
Operator : melissam
Sample : ic5529-1 Inst : MSVOA6
Misc : MS35465,VJ5529,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 30 15:43:47 2016
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Dec 30 13:30:44 2016
Response via : Initial Calibration





TIC: J0981876.D\data.ms

(8) Trichlorofluoromethane ( )

3.803min (-0.006) 0.22ug/L

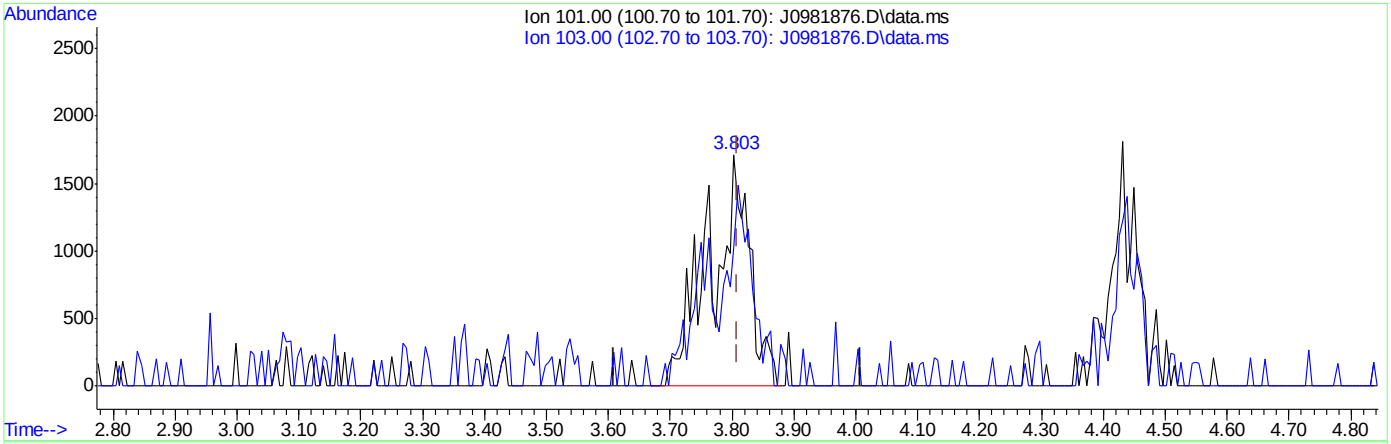
response 4225

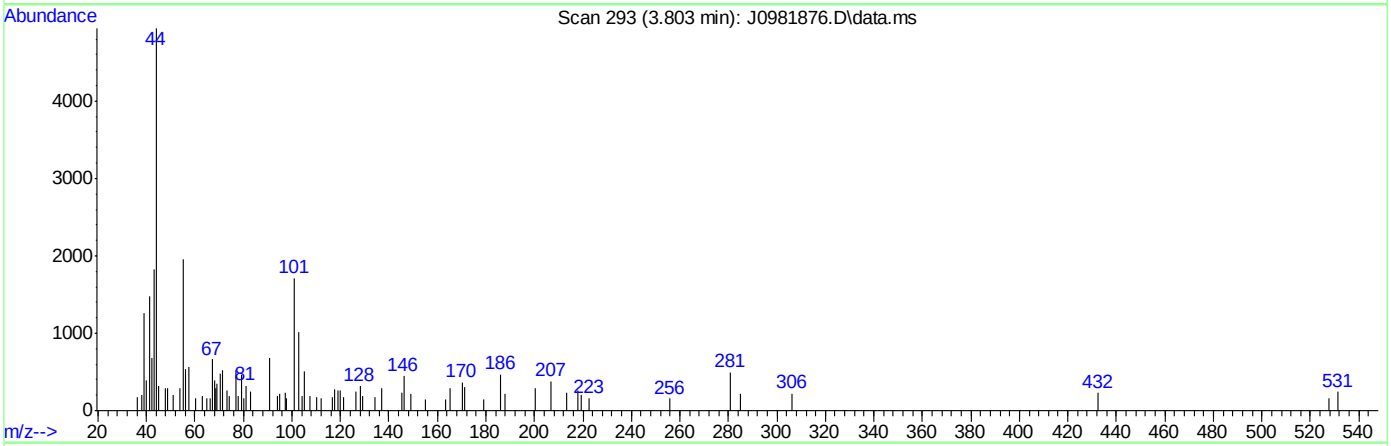
Ion	Exp%	Act%
101.00	100	100
103.00	61.00	34.63
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\123016\
Data File : J0981876.D
Acq On : 30 Dec 2016 12:50 pm
Operator : melissam
Sample : ic5529-1 Inst : MSVOA6
Misc : MS35465,VJ5529,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 30 15:43:47 2016
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Dec 30 13:30:44 2016
Response via : Initial Calibration





TIC: J0981876.D\data.ms

(8) Trichlorofluoromethane ( )

3.803min (-0.006) 0.39ug/L m

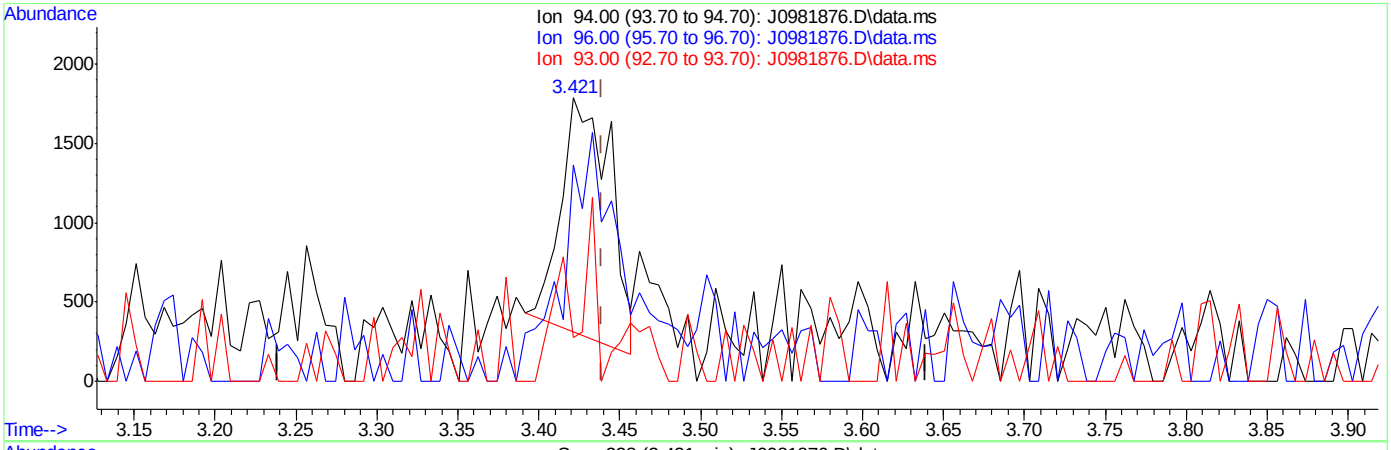
response 7578

Ion	Exp%	Act%
101.00	100	100
103.00	61.00	59.57
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\123016\
Data File : J0981876.D
Acq On : 30 Dec 2016 12:50 pm
Operator : melissam
Sample : ic5529-1 Inst : MSVOA6
Misc : MS35465,VJ5529,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 30 15:43:47 2016
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Dec 30 13:30:44 2016
Response via : Initial Calibration



(6) Bromomethane ( )

3.421min (-0.018) 0.42ug/L

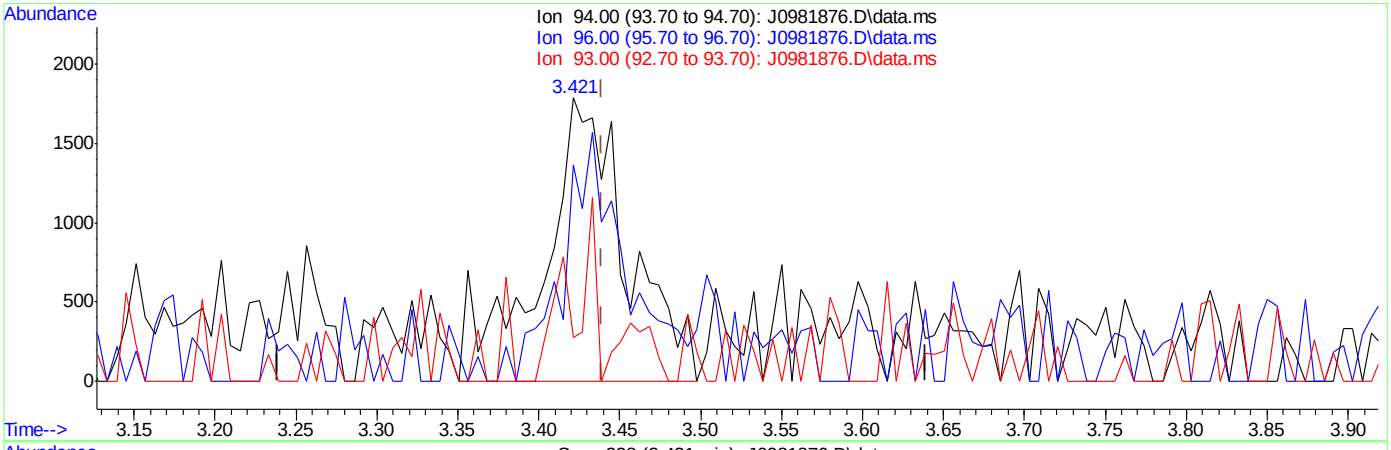
response 3157

Ion	Exp%	Act%
94.00	100	100
96.00	82.50	77.87
93.00	25.00	20.44
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\123016\
Data File : J0981876.D
Acq On : 30 Dec 2016 12:50 pm
Operator : melissam
Sample : ic5529-1 Inst : MSVOA6
Misc : MS35465,VJ5529,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 30 15:43:47 2016
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Dec 30 13:30:44 2016
Response via : Initial Calibration



(6) Bromomethane ( )

3.421min (-0.018) 0.87ug/L m

response 6497

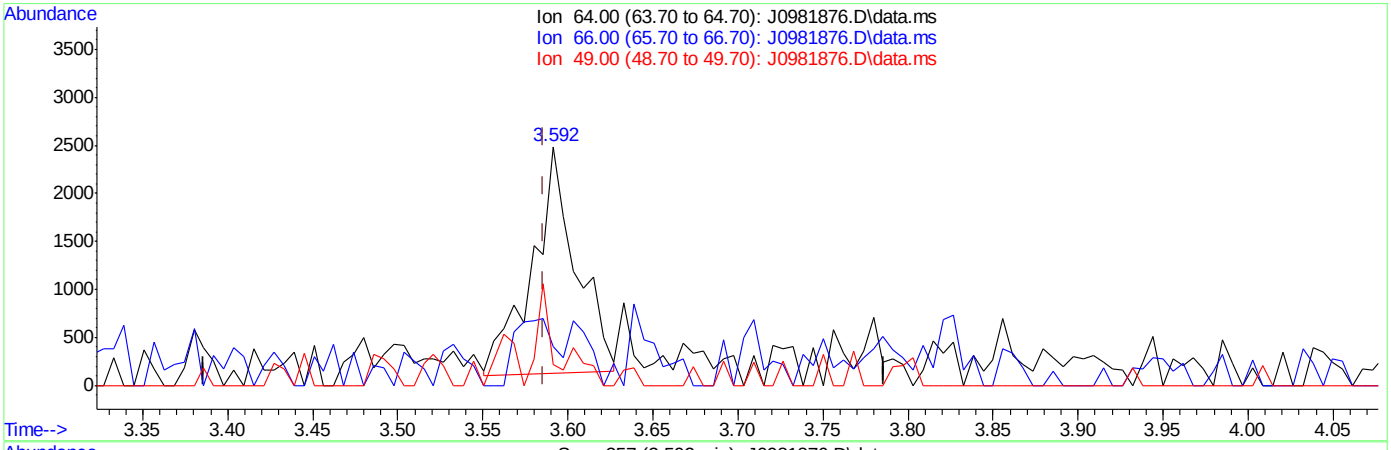
Ion	Exp%	Act%
94.00	100	100
96.00	82.50	76.19
93.00	25.00	15.54
0.00	0.00	0.00

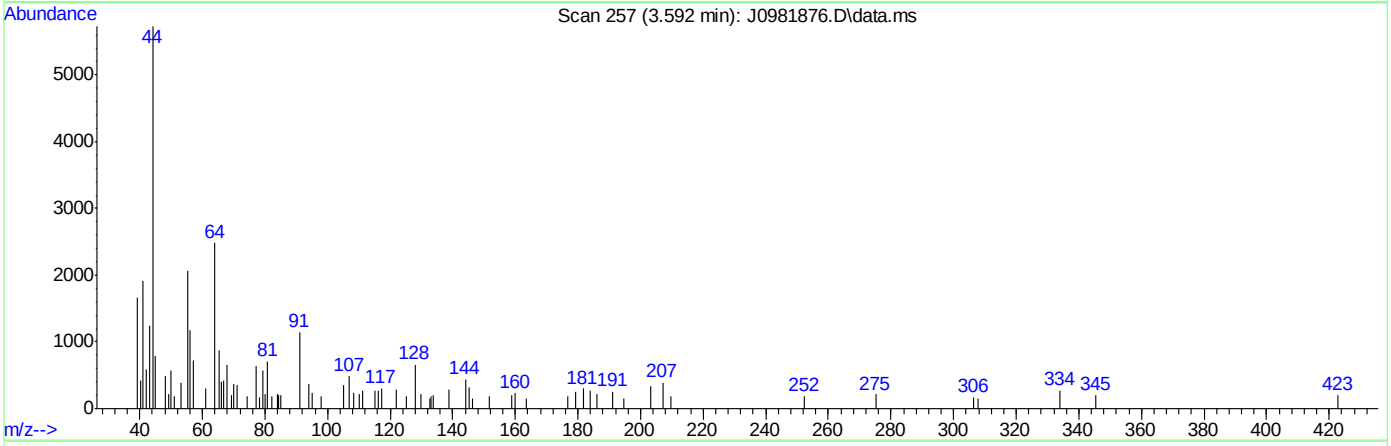
SGS ACCUTEST FA39742

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\123016\
Data File : J0981876.D
Acq On : 30 Dec 2016 12:50 pm
Operator : melissam
Sample : ic5529-1 Inst : MSVOA6
Misc : MS35465,VJ5529,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 30 15:43:47 2016
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Dec 30 13:30:44 2016
Response via : Initial Calibration





TIC: J0981876.D\data.ms

(7) Chloroethane ( )

3.592min (+0.006) 0.72ug/L

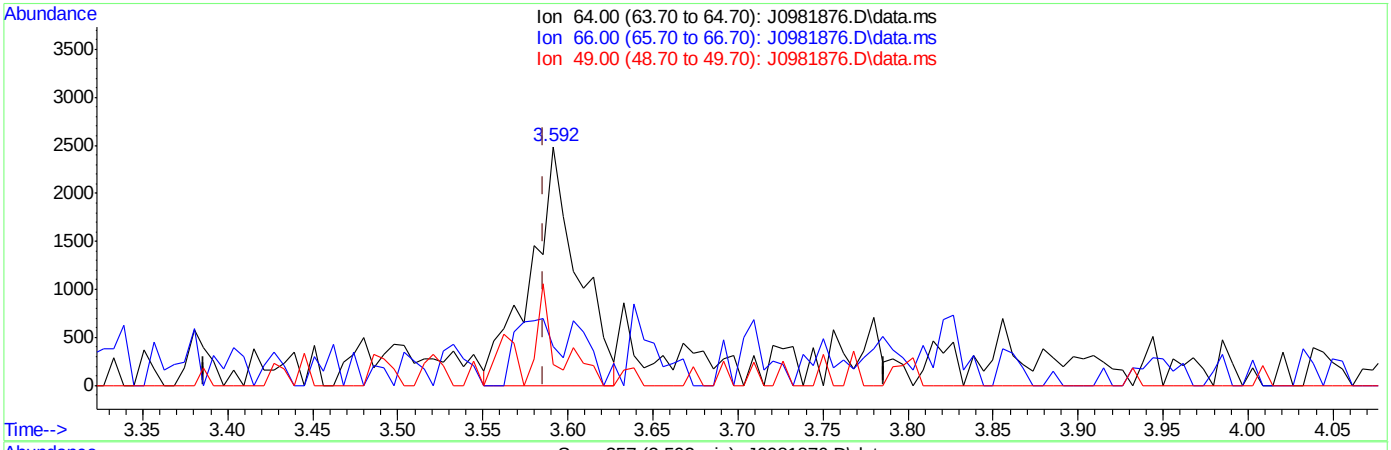
response 4244

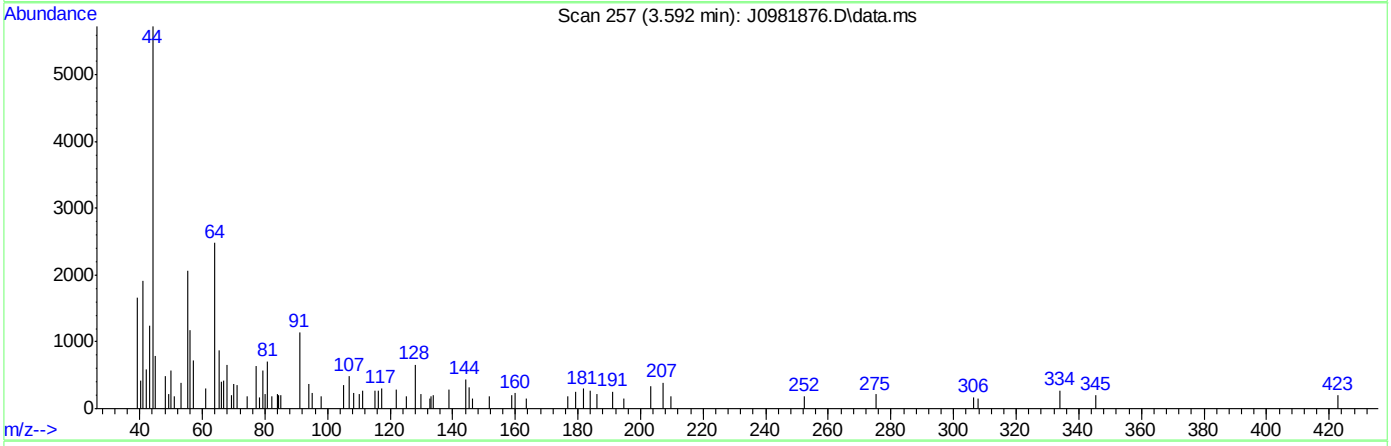
Ion	Exp%	Act%
64.00	100	100
66.00	25.90	17.46
49.00	30.40	9.52
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\123016\
Data File : J0981876.D
Acq On : 30 Dec 2016 12:50 pm
Operator : melissam
Sample : ic5529-1 Inst : MSVOA6
Misc : MS35465,VJ5529,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 30 15:43:47 2016
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Dec 30 13:30:44 2016
Response via : Initial Calibration





TIC: J0981876.D\data.ms

(7) Chloroethane ( )

3.592min (+0.006) 0.82ug/L m

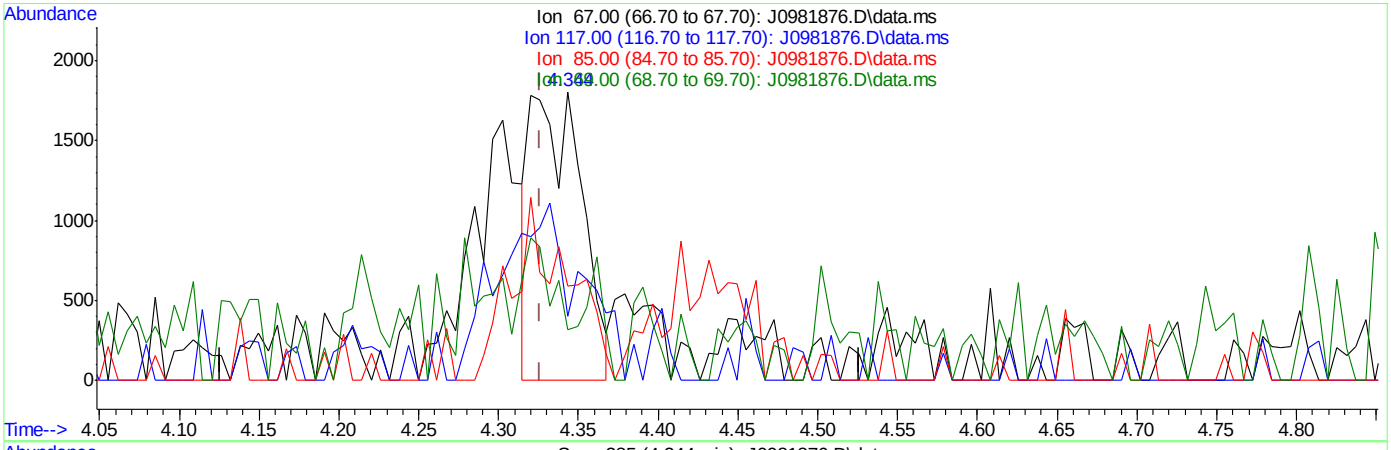
response 4824

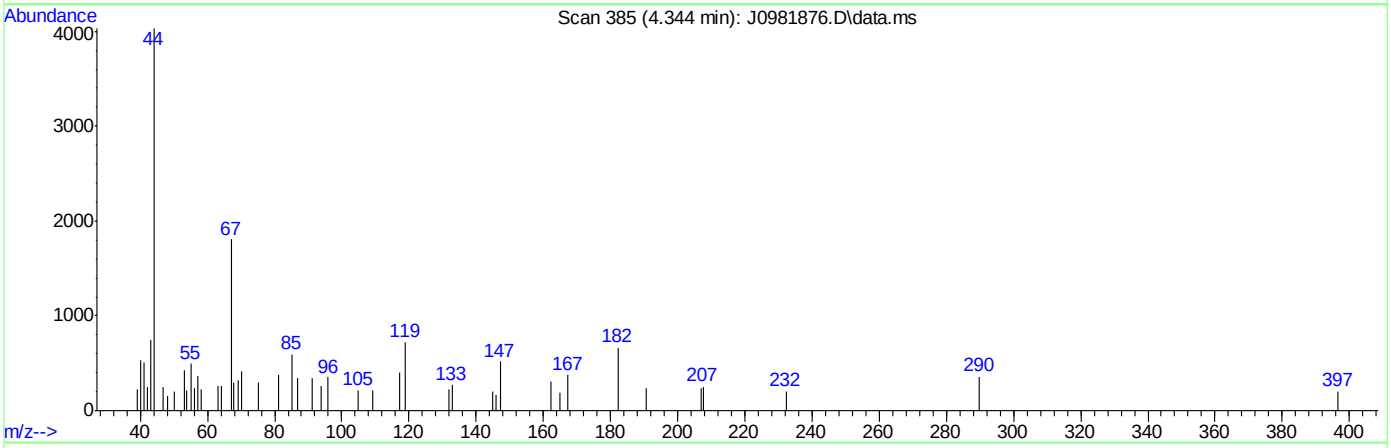
Ion	Exp%	Act%
64.00	100	100
66.00	25.90	16.38
49.00	30.40	8.93
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\123016\
Data File : J0981876.D
Acq On : 30 Dec 2016 12:50 pm
Operator : melissam
Sample : ic5529-1 Inst : MSVOA6
Misc : MS35465,VJ5529,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 30 15:43:47 2016
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Dec 30 13:30:44 2016
Response via : Initial Calibration





TIC: J0981876.D\data.ms

(10) 1,2-Dichlorotrifluoroethane

4.344min (+0.018) 0.41ug/L

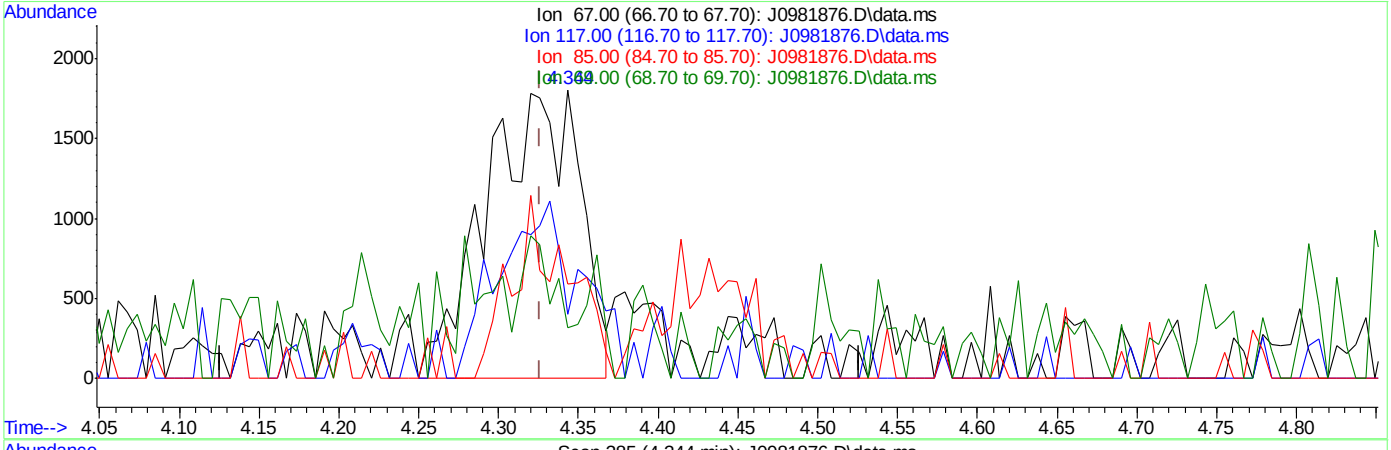
response 3989

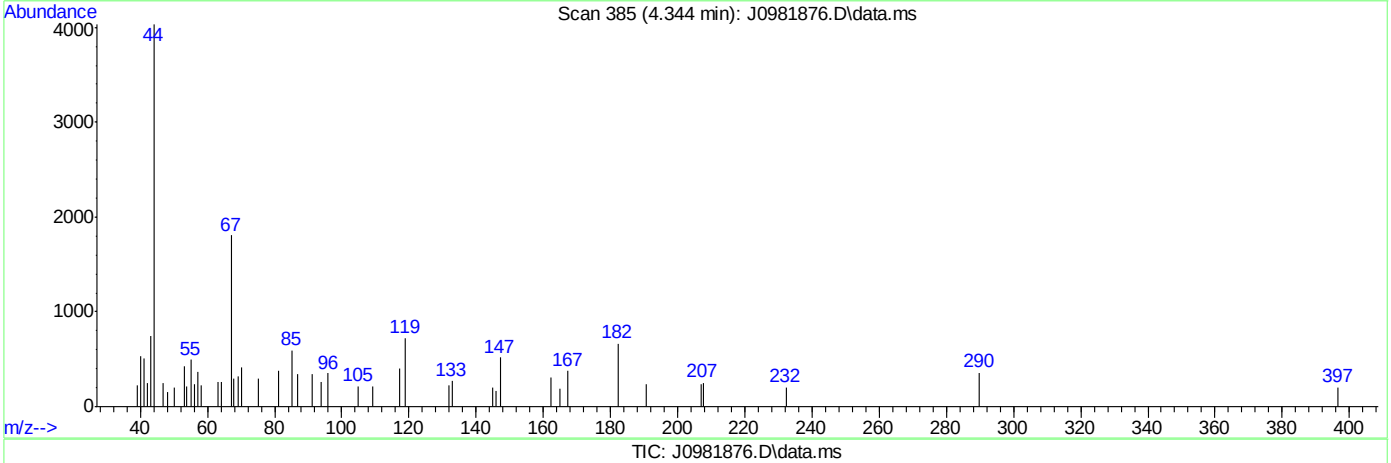
Ion	Exp%	Act%
67.00	100	100
117.00	60.40	0.00#
85.00	33.50	27.92
69.00	30.20	0.00#

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\123016\
Data File : J0981876.D
Acq On : 30 Dec 2016 12:50 pm
Operator : melissam
Sample : ic5529-1 Inst : MSVOA6
Misc : MS35465,VJ5529,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 30 15:43:47 2016
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Dec 30 13:30:44 2016
Response via : Initial Calibration





TIC: J0981876.D\data.ms

(10) 1,2-Dichlorotrifluoroethane

4.344min (+0.018) 0.74ug/L m

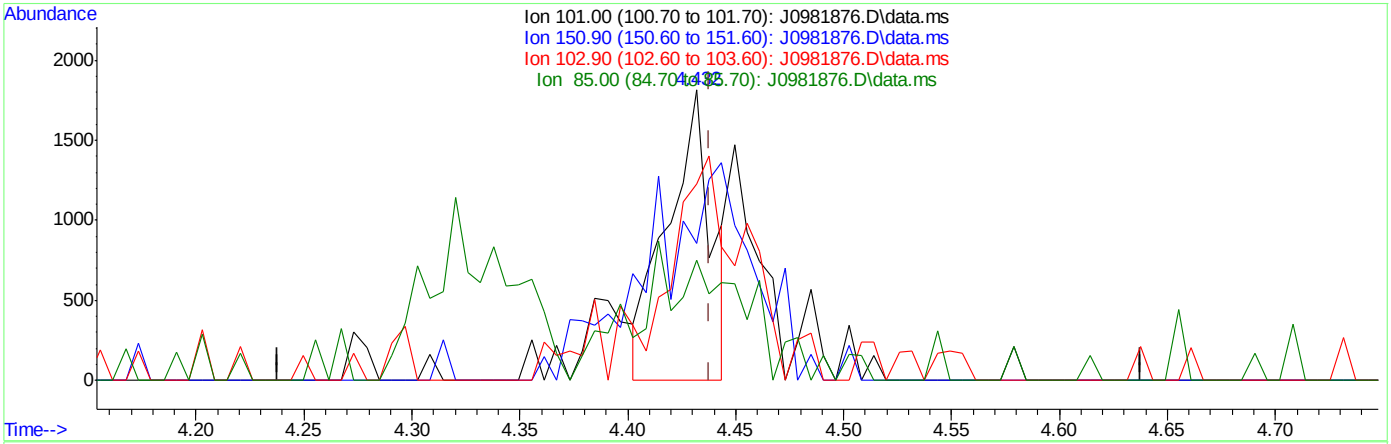
response 7306

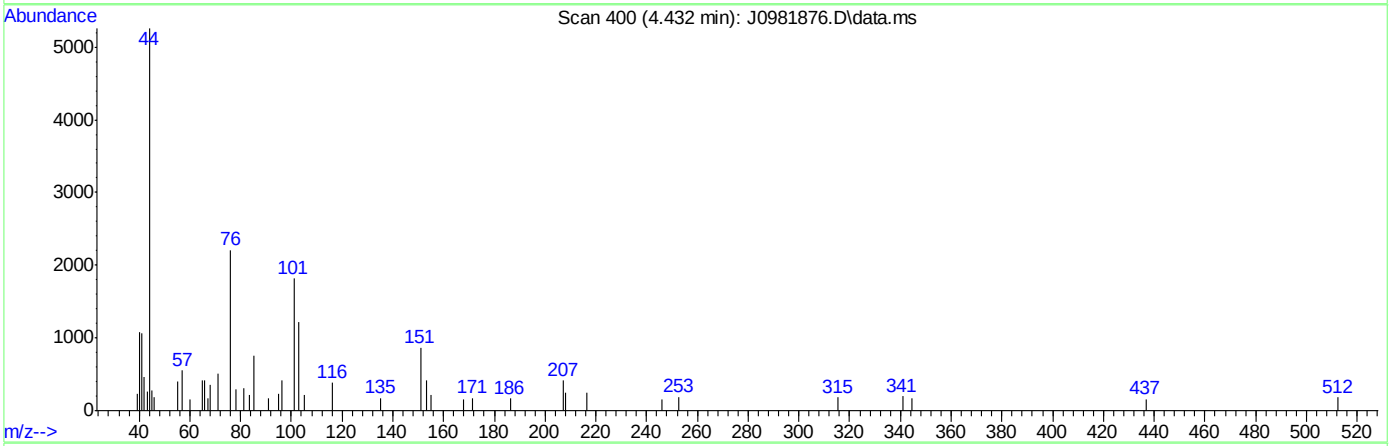
Ion	Exp%	Act%
67.00	100	100
117.00	60.40	22.25#
85.00	33.50	32.76
69.00	30.20	17.54

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\123016\
Data File : J0981876.D
Acq On : 30 Dec 2016 12:50 pm
Operator : melissam
Sample : ic5529-1 Inst : MSVOA6
Misc : MS35465,VJ5529,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 30 15:43:47 2016
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Dec 30 13:30:44 2016
Response via : Initial Calibration





TIC: J0981876.D\data.ms

(12) Freon 113

4.432min (-0.006) 0.29ug/L

response 2580

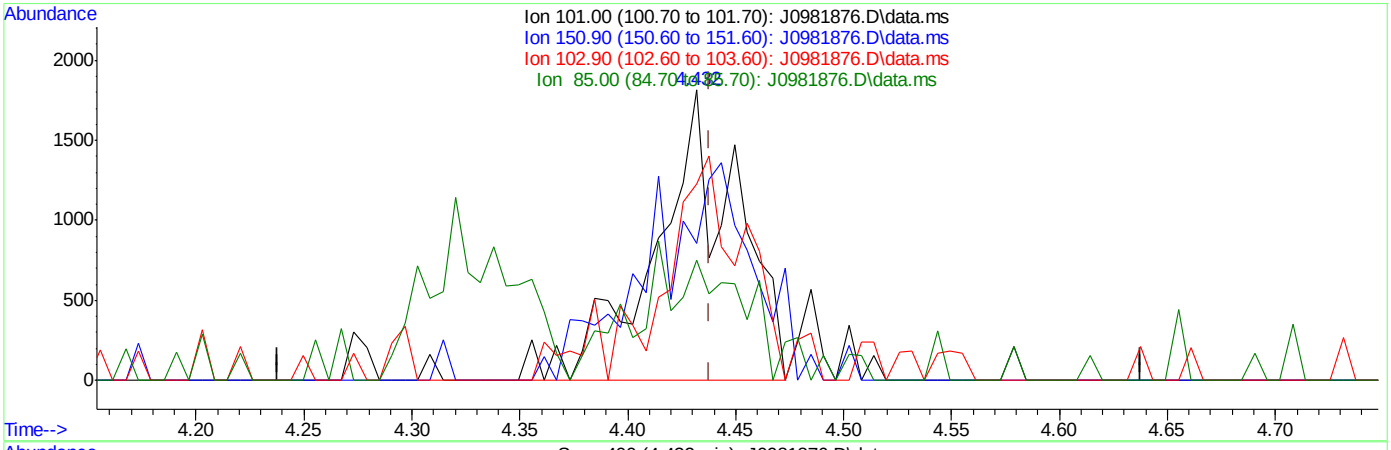
Ion	Exp%	Act%
101.00	100	100
150.90	77.10	12.79#
102.90	60.70	60.12
85.00	41.90	32.90

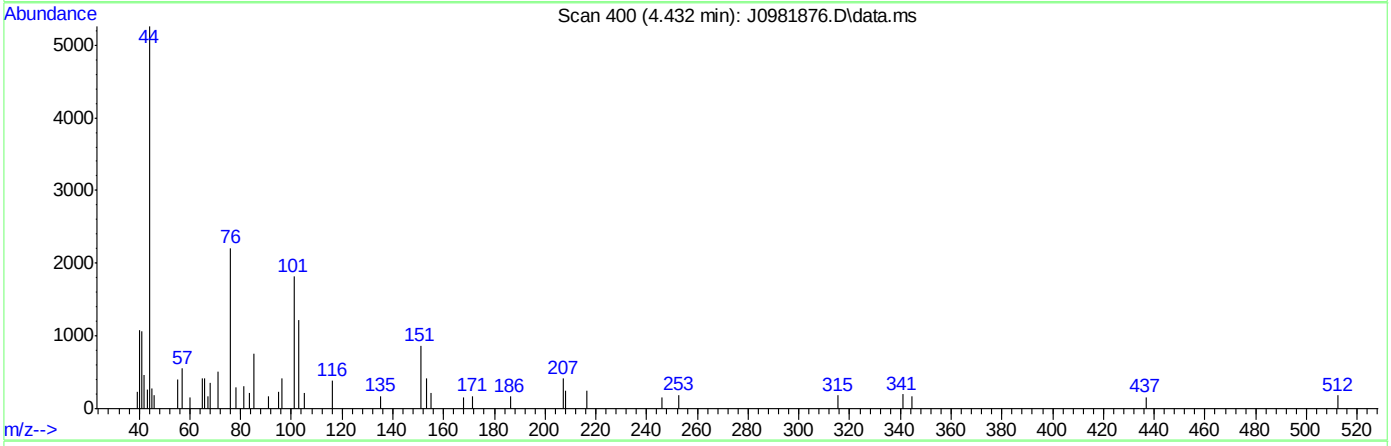
SGS ACCUTEST FA39742

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\123016\
Data File : J0981876.D
Acq On : 30 Dec 2016 12:50 pm
Operator : melissam
Sample : ic5529-1 Inst : MSVOA6
Misc : MS35465,VJ5529,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 30 15:43:47 2016
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Dec 30 13:30:44 2016
Response via : Initial Calibration





TIC: J0981876.D\data.ms

(12) Freon 113

4.432min (-0.006) 0.53ug/L m

response 4756

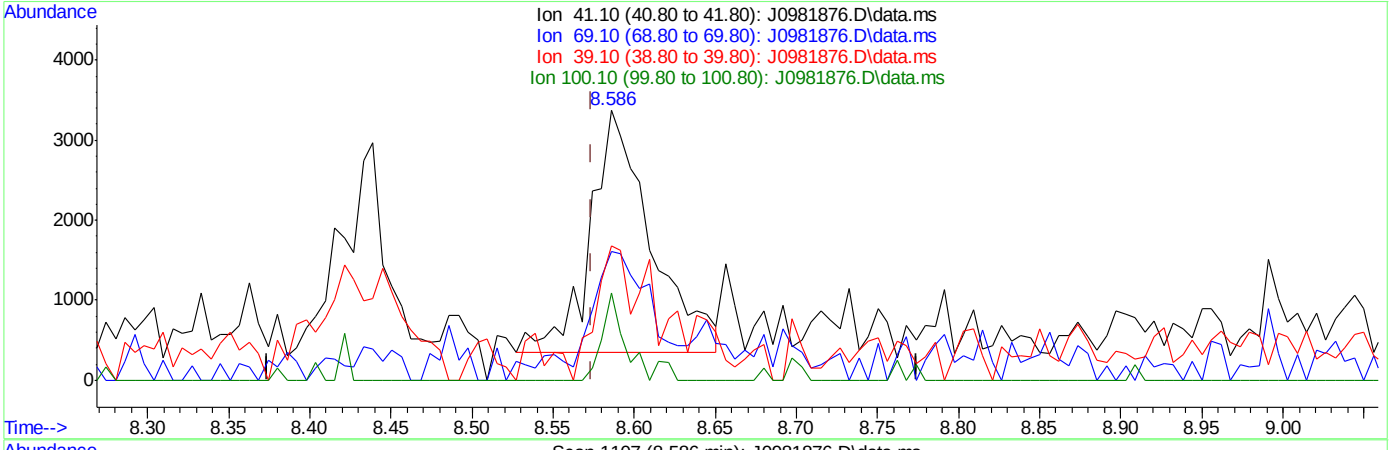
Ion	Exp%	Act%
101.00	100	100
150.90	77.10	47.27#
102.90	60.70	67.51
85.00	41.90	41.37

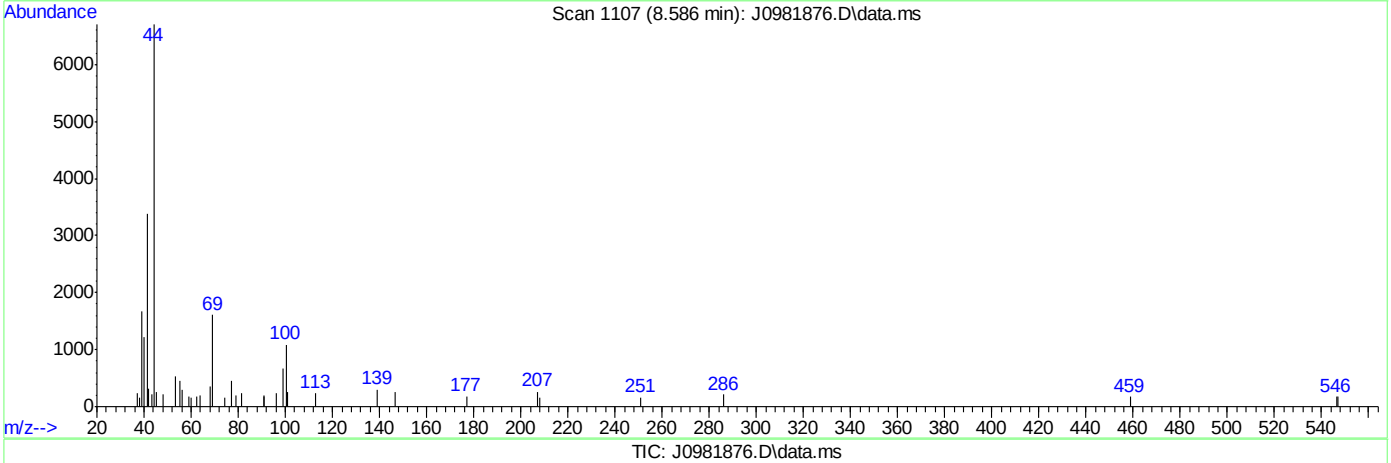
SGS ACCUTEST FA39742

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\123016\
Data File : J0981876.D
Acq On : 30 Dec 2016 12:50 pm
Operator : melissam
Sample : ic5529-1 Inst : MSVOA6
Misc : MS35465,VJ5529,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 30 15:43:47 2016
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Dec 30 13:30:44 2016
Response via : Initial Calibration





TIC: J0981876.D\data.ms

(53) Methyl methacrylate

8.586min (+0.012) 1.15ug/L

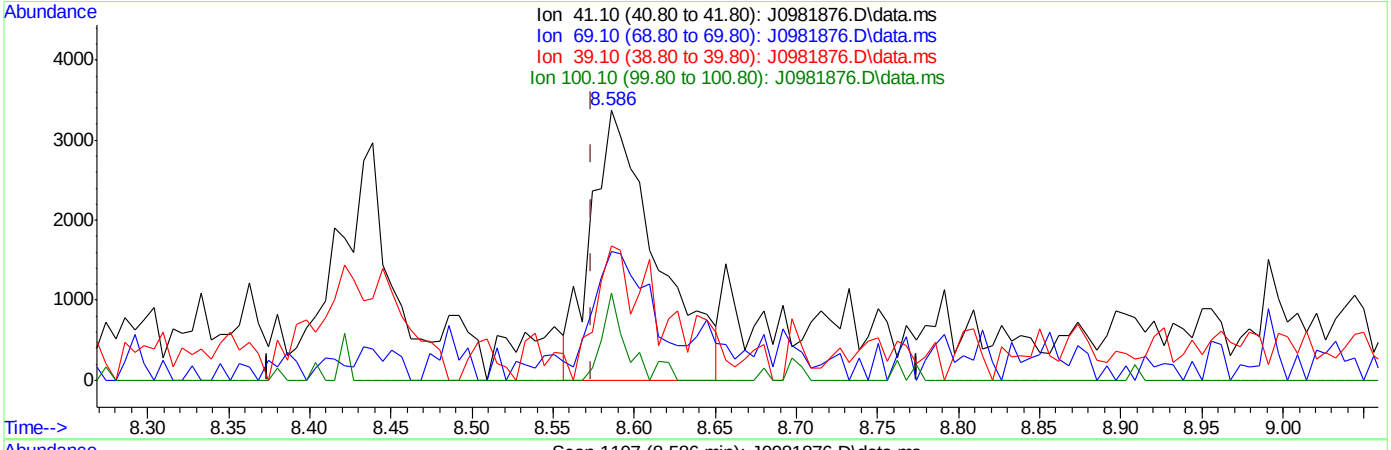
response 7840

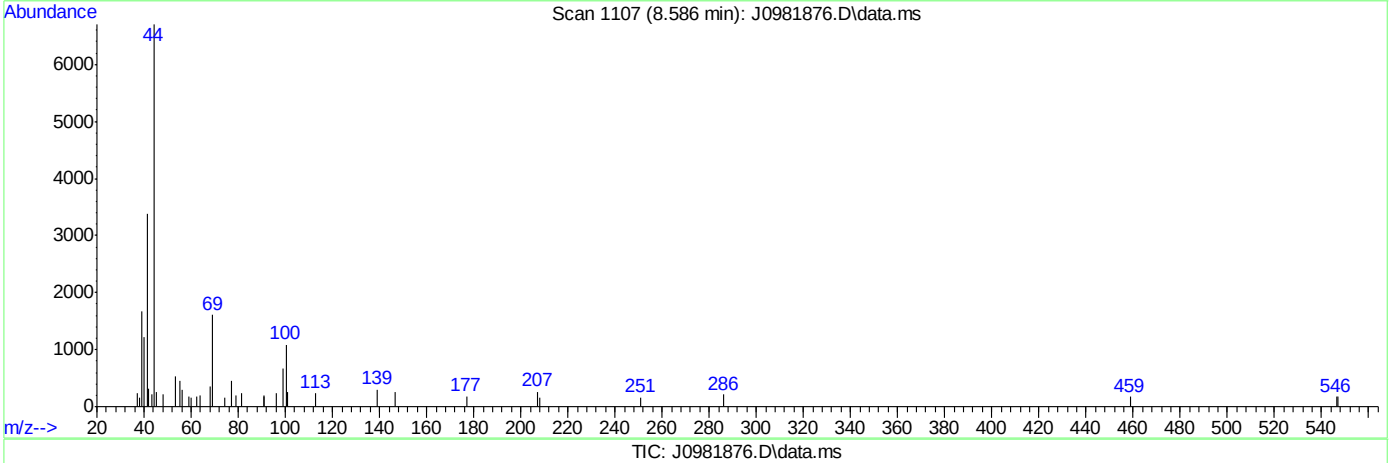
Ion	Exp%	Act%
41.10	100	100
69.10	57.20	45.29
39.10	51.30	55.51
100.10	22.30	36.09

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\123016\
Data File : J0981876.D
Acq On : 30 Dec 2016 12:50 pm
Operator : melissam
Sample : ic5529-1 Inst : MSVOA6
Misc : MS35465,VJ5529,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 30 15:43:47 2016
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Dec 30 13:30:44 2016
Response via : Initial Calibration





TIC: J0981876.D\data.ms

(53) Methyl methacrylate

8.586min (+0.012) 1.39ug/L m

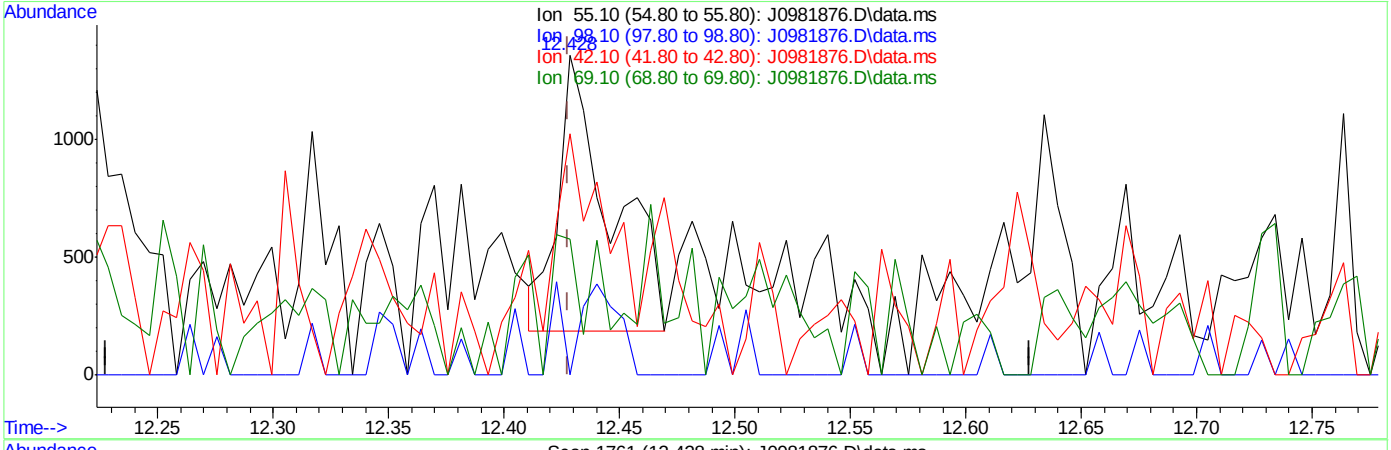
response 9454

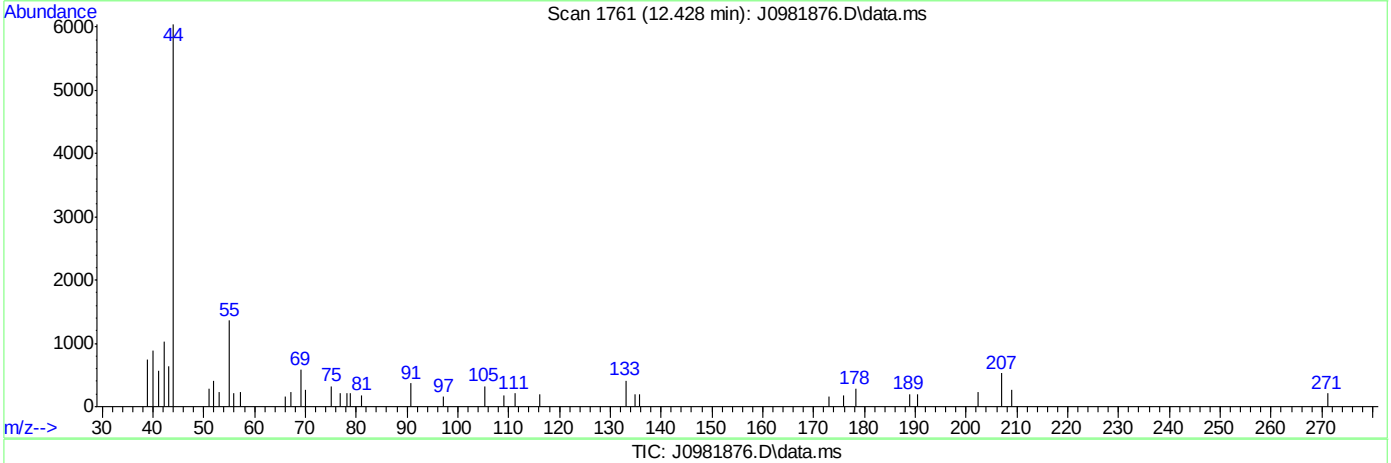
Ion	Exp%	Act%
41.10	100	100
69.10	57.20	47.59
39.10	51.30	49.69
100.10	22.30	32.31

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\123016\
Data File : J0981876.D
Acq On : 30 Dec 2016 12:50 pm
Operator : melissam
Sample : ic5529-1 Inst : MSVOA6
Misc : MS35465,VJ5529,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 30 15:43:47 2016
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Dec 30 13:30:44 2016
Response via : Initial Calibration





TIC: J0981876.D\data.ms

(88) Cyclohexanone

12.428min (+0.000) 6.17ug/L

response 1855

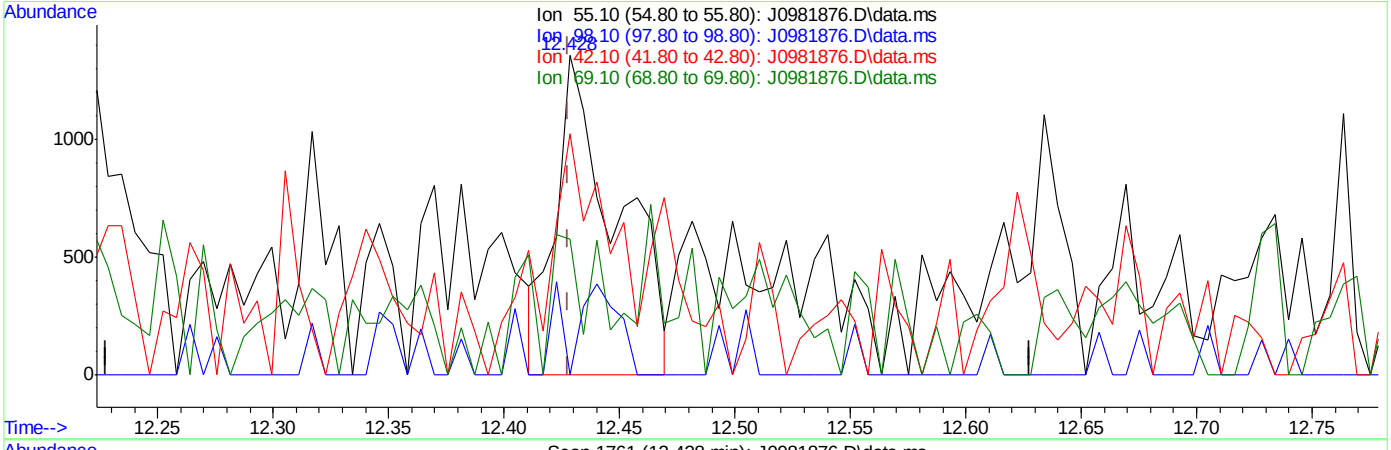
Ion	Exp%	Act%
55.10	100	100
98.10	33.60	0.00#
42.10	70.70	42.05#
69.10	22.10	30.43

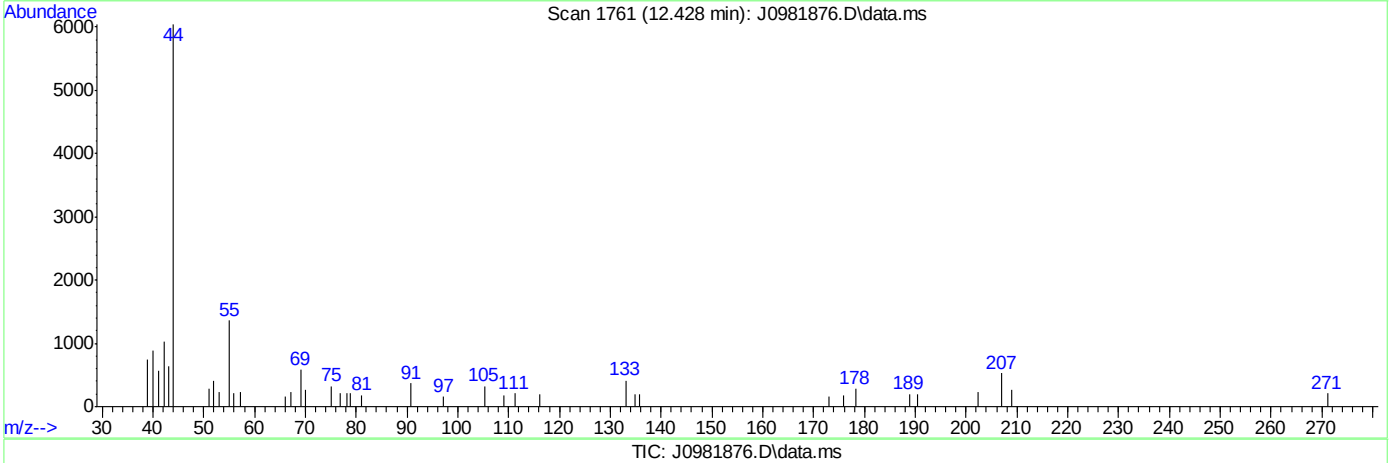
SGS ACCUTEST FA39742

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\123016\
Data File : J0981876.D
Acq On : 30 Dec 2016 12:50 pm
Operator : melissam
Sample : ic5529-1 Inst : MSVOA6
Misc : MS35465,VJ5529,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 30 15:43:47 2016
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Dec 30 13:30:44 2016
Response via : Initial Calibration





TIC: J0981876.D\data.ms

(88) Cyclohexanone

12.428min (+0.000) 8.38ug/L m

response 2518

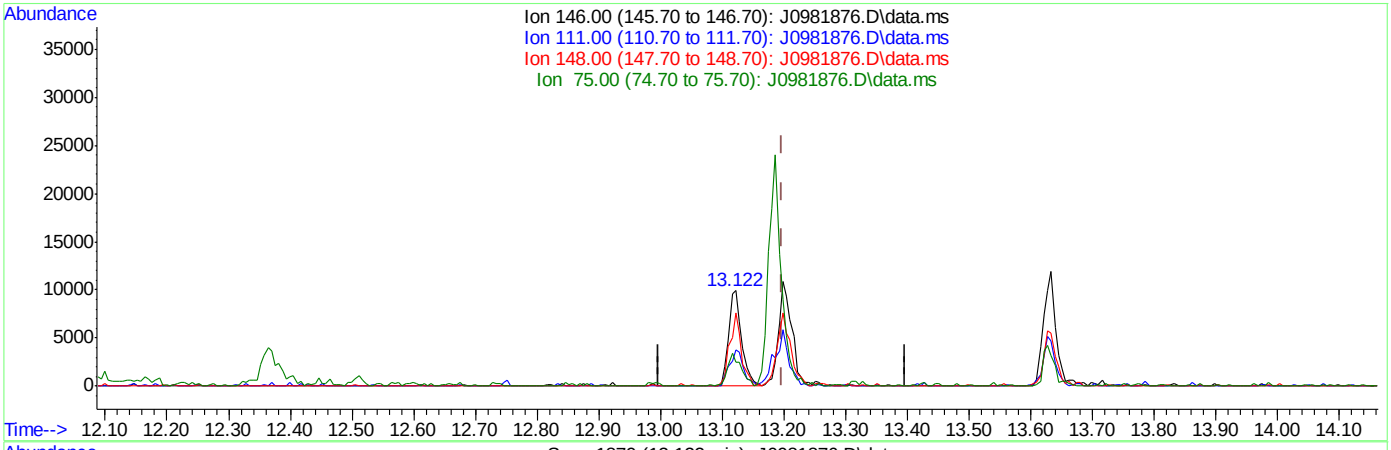
Ion	Exp%	Act%
55.10	100	100
98.10	33.60	0.00#
42.10	70.70	75.41
69.10	22.10	42.64#

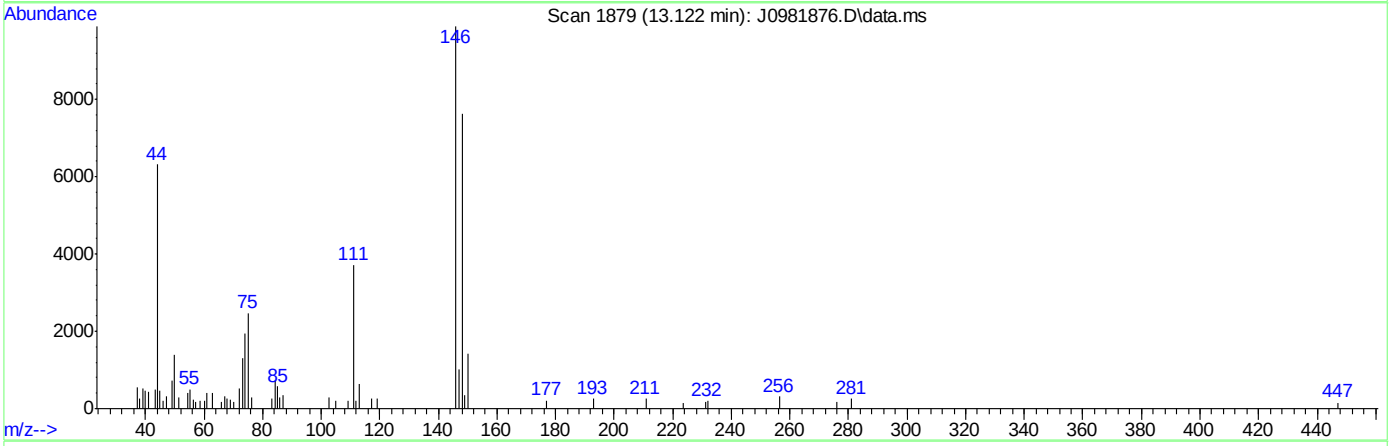
SGS ACCUTEST FA39742

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\123016\
Data File : J0981876.D
Acq On : 30 Dec 2016 12:50 pm
Operator : melissam
Sample : ic5529-1 Inst : MSVOA6
Misc : MS35465,VJ5529,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 30 15:43:47 2016
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Dec 30 13:30:44 2016
Response via : Initial Calibration





TIC: J0981876.D\data.ms

(97) 1,4-Dichlorobenzene

13.122min (-0.076) 0.87ug/L

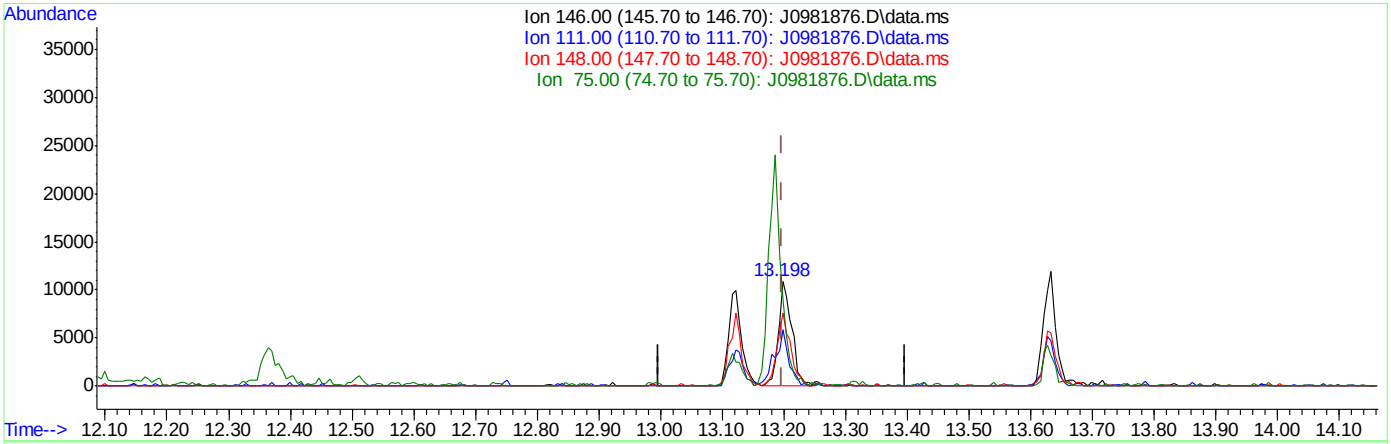
response 14356

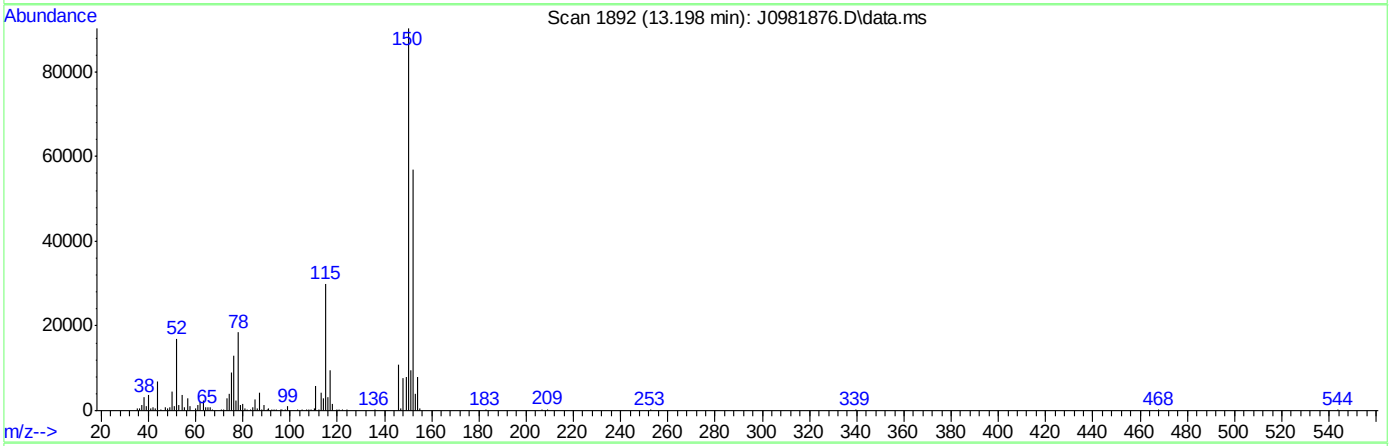
Ion	Exp%	Act%
146.00	100	100
111.00	40.80	37.68
148.00	60.00	77.02
75.00	36.30	24.96

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\123016\
Data File : J0981876.D
Acq On : 30 Dec 2016 12:50 pm
Operator : melissam
Sample : ic5529-1 Inst : MSVOA6
Misc : MS35465,VJ5529,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 30 15:43:47 2016
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Dec 30 13:30:44 2016
Response via : Initial Calibration





TIC: J0981876.D\data.ms

(97) 1,4-Dichlorobenzene

13.198min (+0.000) 1.00ug/L m

response 16533

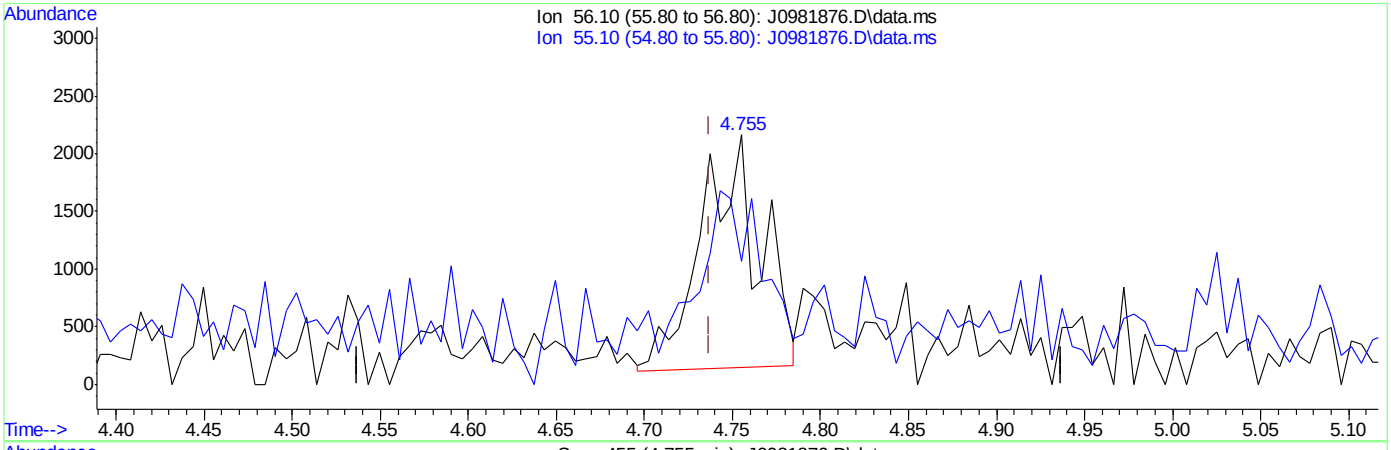
Ion	Exp%	Act%
146.00	100	100
111.00	40.80	53.43
148.00	60.00	70.16
75.00	36.30	82.95#

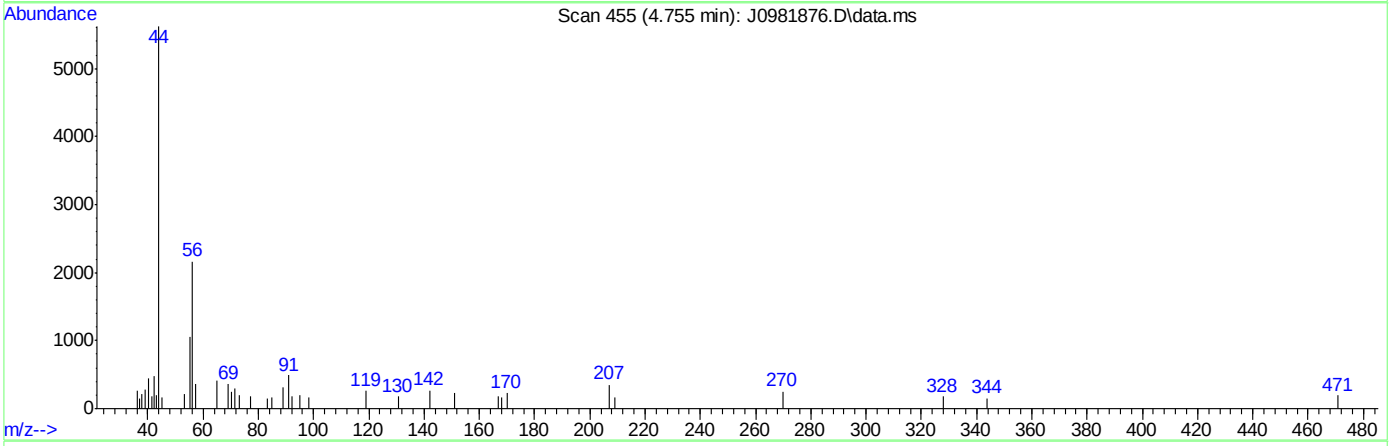
SGS ACCUTEST FA39742

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\123016\
Data File : J0981876.D
Acq On : 30 Dec 2016 12:50 pm
Operator : melissam
Sample : ic5529-1 Inst : MSVOA6
Misc : MS35465,VJ5529,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 30 15:43:47 2016
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Dec 30 13:30:44 2016
Response via : Initial Calibration





TIC: J0981876.D\data.ms

(108) acrolein

4.755min (+0.018) 2.63ug/L

response 4648

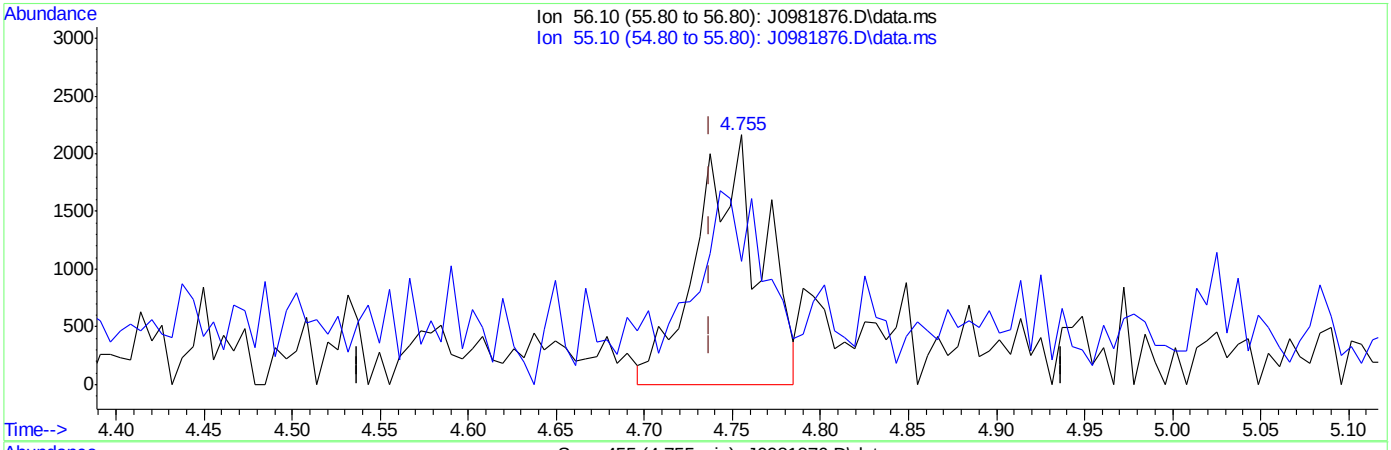
Ion	Exp%	Act%
56.10	100	100
55.10	72.60	33.18#
0.00	0.00	0.00
0.00	0.00	0.00

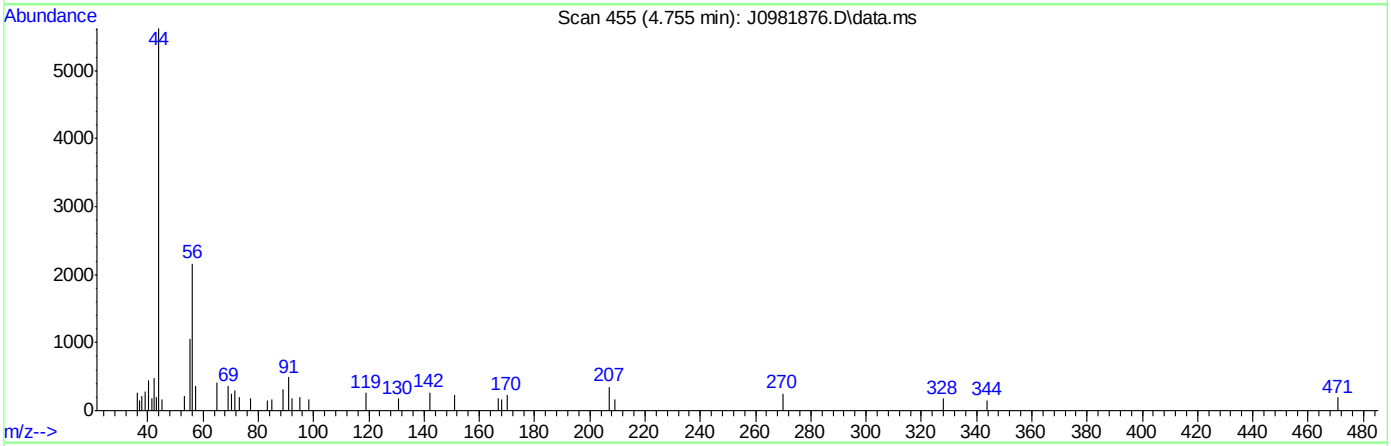
SGS ACCUTEST FA39742

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\123016\
Data File : J0981876.D
Acq On : 30 Dec 2016 12:50 pm
Operator : melissam
Sample : ic5529-1 Inst : MSVOA6
Misc : MS35465,VJ5529,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 30 15:43:47 2016
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Dec 30 13:30:44 2016
Response via : Initial Calibration





TIC: J0981876.D\data.ms

(108) acrolein

4.755min (+0.018) 3.05ug/L m

response 5399

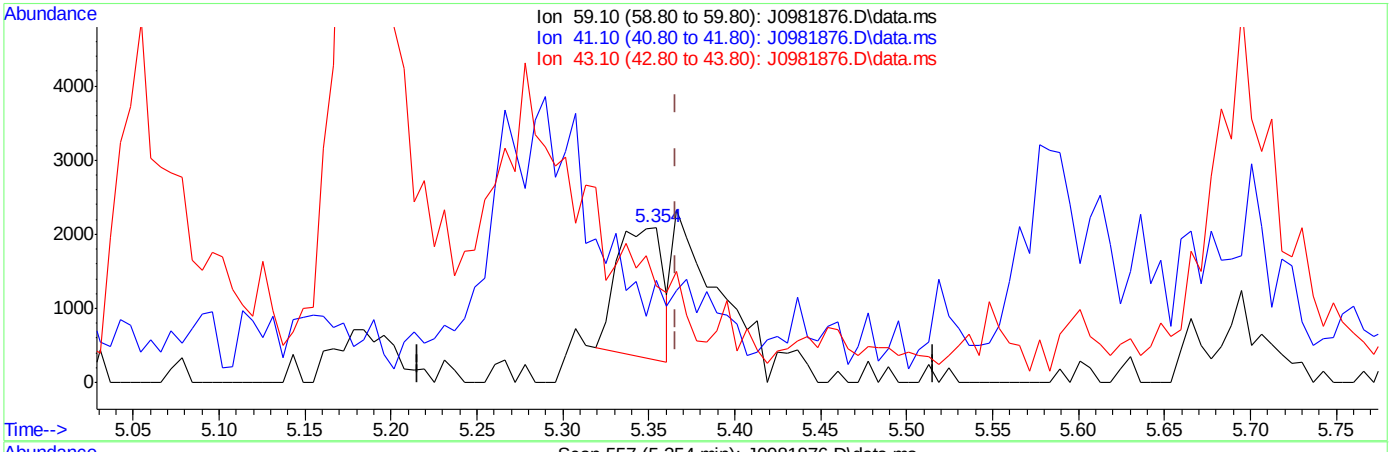
Ion	Exp%	Act%
56.10	100	100
55.10	72.60	49.14#
0.00	0.00	0.00
0.00	0.00	0.00

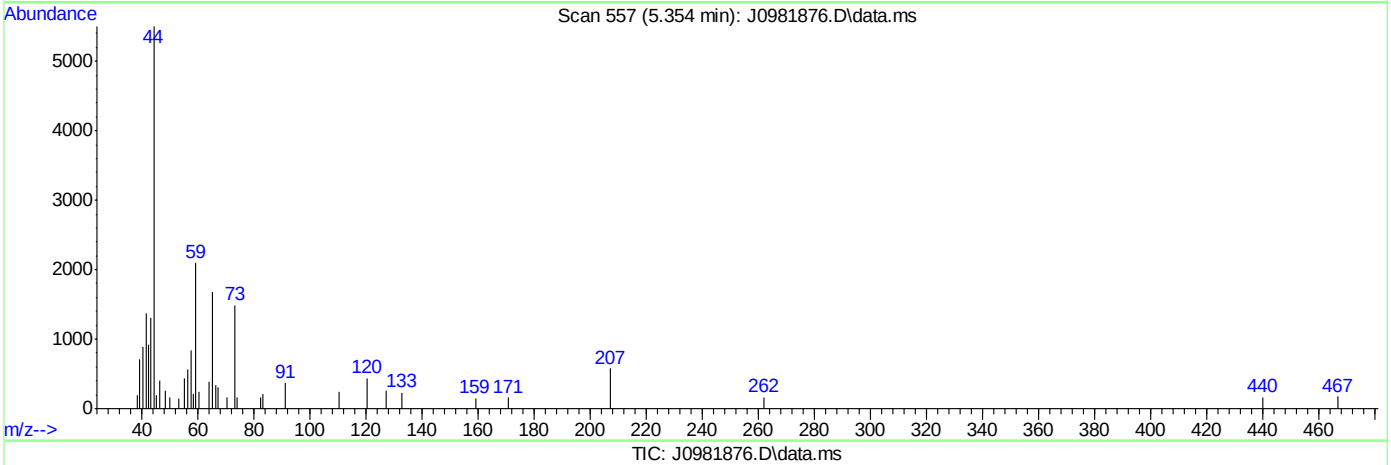
SGS ACCUTEST FA39742

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\123016\
Data File : J0981876.D
Acq On : 30 Dec 2016 12:50 pm
Operator : melissam
Sample : ic5529-1 Inst : MSVOA6
Misc : MS35465,VJ5529,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 30 15:43:47 2016
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Dec 30 13:30:44 2016
Response via : Initial Calibration





TIC: J0981876.D\data.ms

(109) Tert Butyl Alcohol

5.354min (-0.012) 3.59ug/L

response 3245

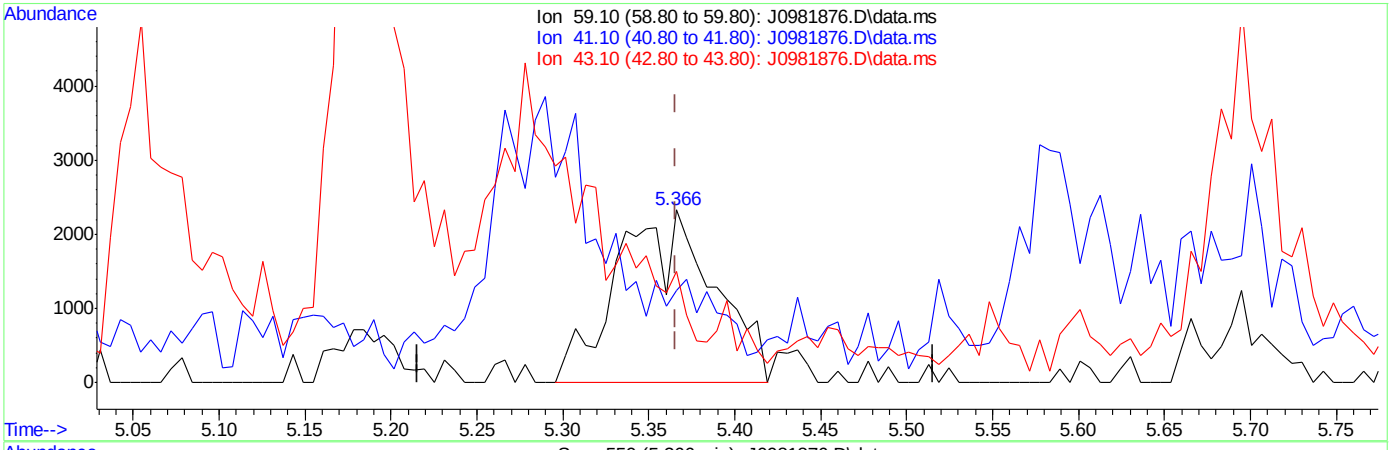
Ion	Exp%	Act%
59.10	100	100
41.10	35.00	21.78
43.10	26.80	6.40#
0.00	0.00	0.00

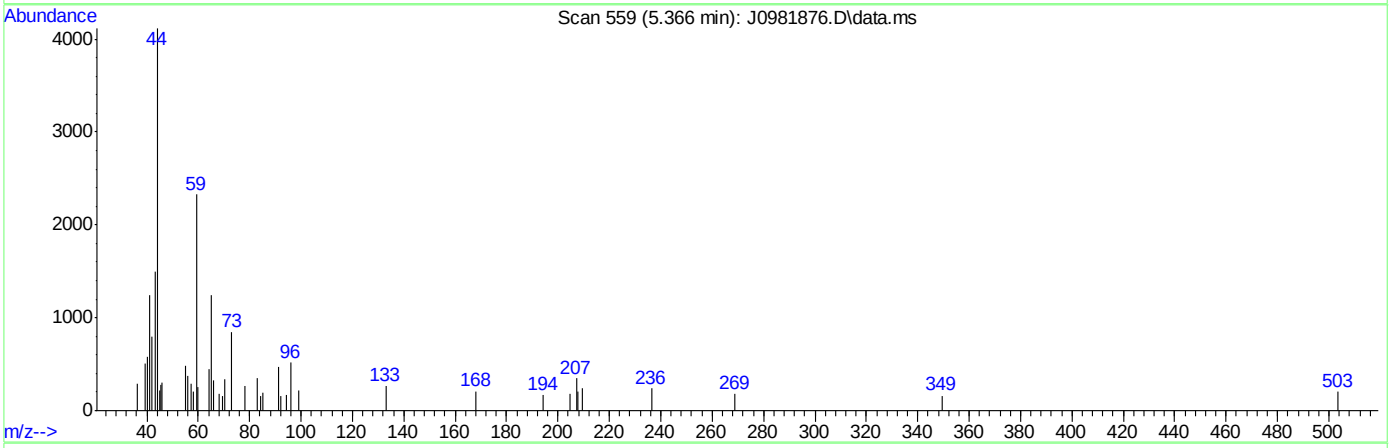
SGS ACCUTEST FA39742

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\123016\
Data File : J0981876.D
Acq On : 30 Dec 2016 12:50 pm
Operator : melissam
Sample : ic5529-1 Inst : MSVOA6
Misc : MS35465,VJ5529,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 30 15:43:47 2016
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Dec 30 13:30:44 2016
Response via : Initial Calibration





(109) Tert Butyl Alcohol

5.366min (0.000) 10.12ug/L m

response 9150

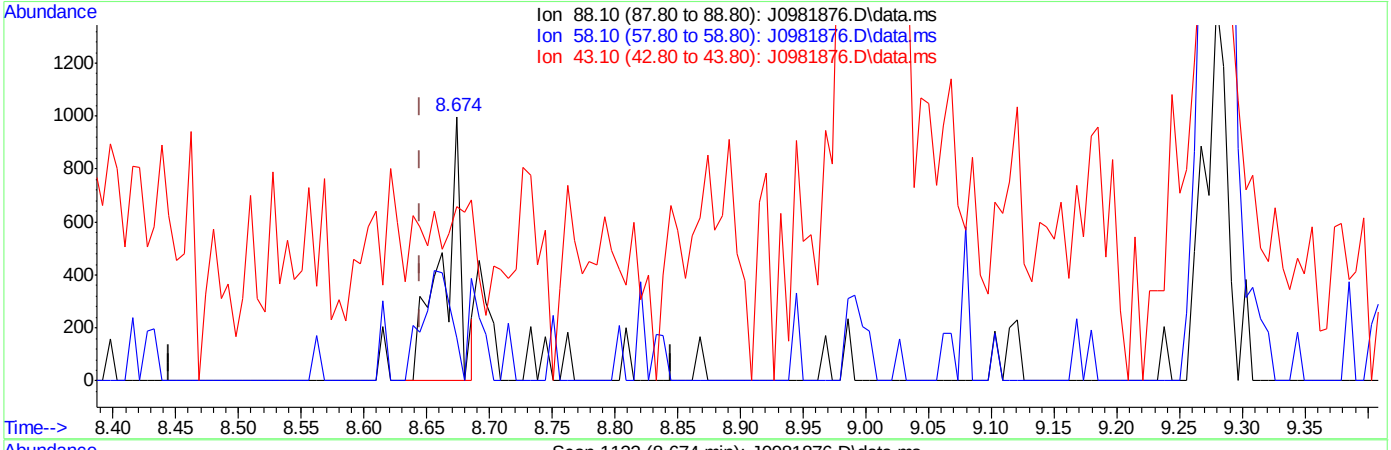
Ion	Exp%	Act%
59.10	100	100
41.10	35.00	53.68
43.10	26.80	64.60#
0.00	0.00	0.00

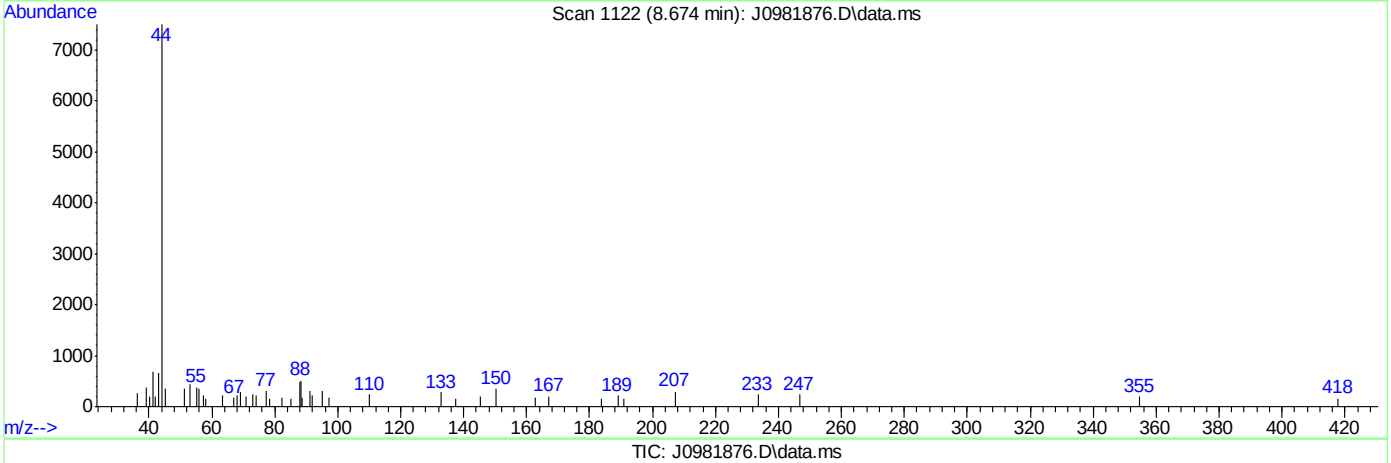
SGS ACCUTEST FA39742

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\123016\
Data File : J0981876.D
Acq On : 30 Dec 2016 12:50 pm
Operator : melissam
Sample : ic5529-1 Inst : MSVOA6
Misc : MS35465,VJ5529,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 30 15:43:47 2016
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Dec 30 13:30:44 2016
Response via : Initial Calibration





TIC: J0981876.D\data.ms

(112) 1,4-Dioxane

8.674min (+0.029) 12.36ug/L

response 1035

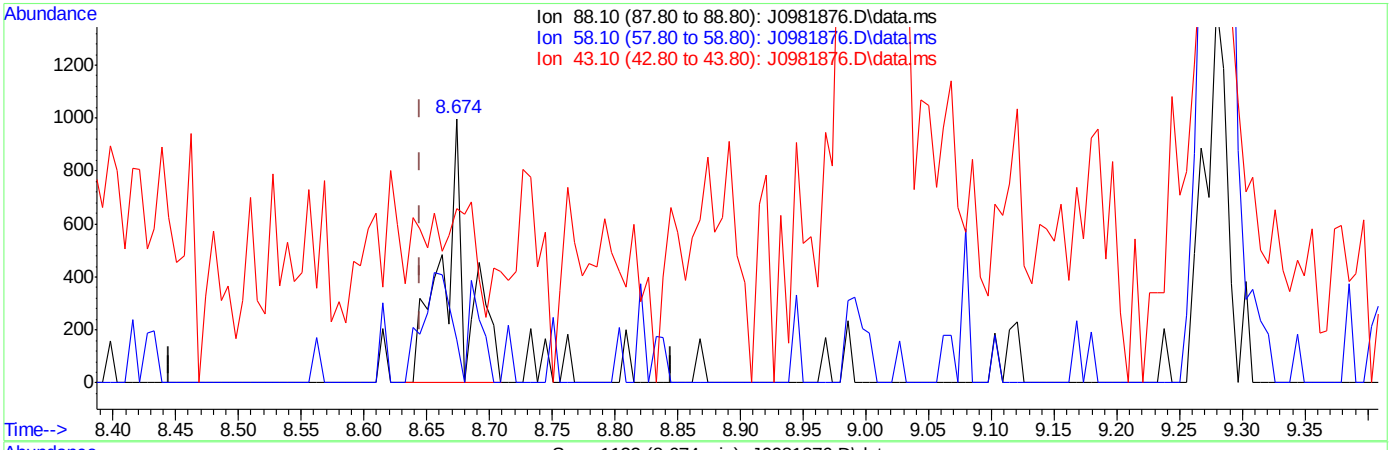
Ion	Exp%	Act%
88.10	100	100
58.10	74.80	13.78#
43.10	35.10	24.57
0.00	0.00	0.00

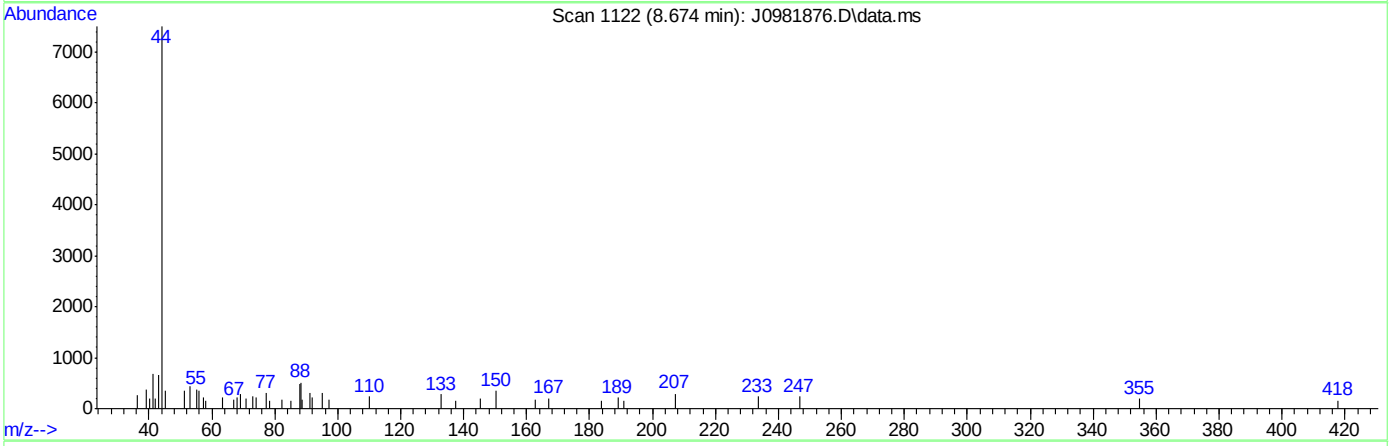
SGS ACCUTEST FA39742

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\123016\
Data File : J0981876.D
Acq On : 30 Dec 2016 12:50 pm
Operator : melissam
Sample : ic5529-1 Inst : MSVOA6
Misc : MS35465,VJ5529,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 30 15:43:47 2016
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Dec 30 13:30:44 2016
Response via : Initial Calibration





TIC: J0981876.D\data.ms

(112) 1,4-Dioxane

8.674min (+0.029) 16.43ug/L m

response 1375

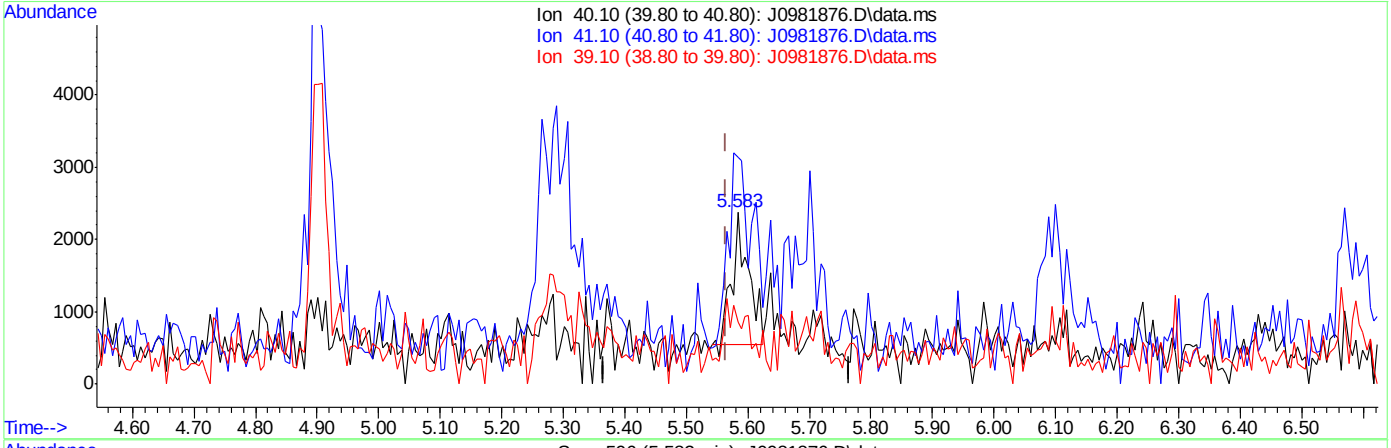
Ion	Exp%	Act%
88.10	100	100
58.10	74.80	31.45#
43.10	35.10	128.91#
0.00	0.00	0.00

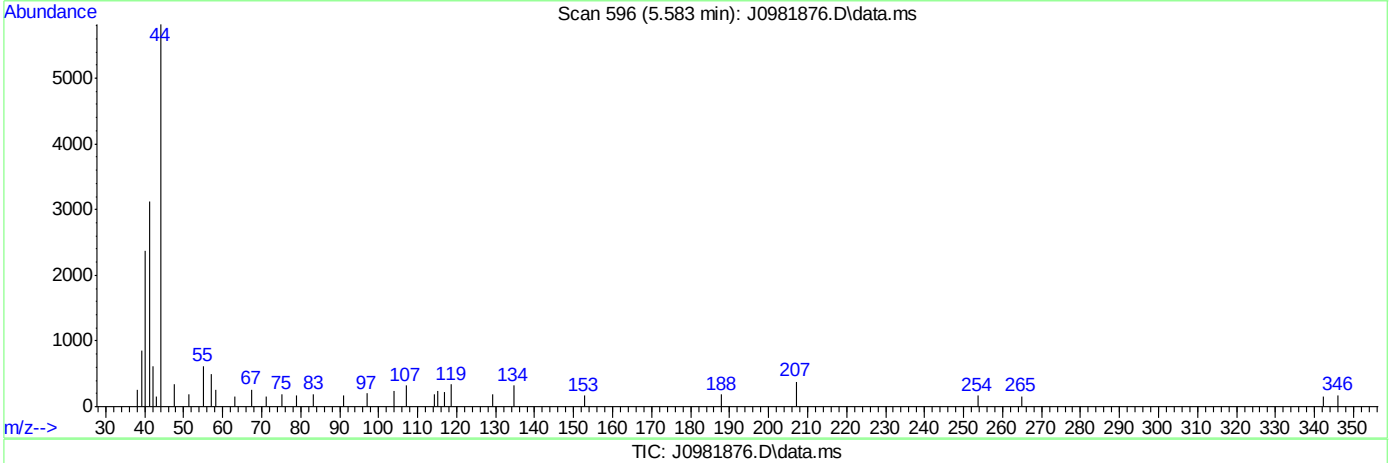
SGS ACCUTEST FA39742

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\123016\
Data File : J0981876.D
Acq On : 30 Dec 2016 12:50 pm
Operator : melissam
Sample : ic5529-1 Inst : MSVOA6
Misc : MS35465,VJ5529,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 30 15:47:05 2016
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Dec 30 13:30:44 2016
Response via : Initial Calibration





TIC: J0981876.D\data.ms

(22) Acetonitrile

5.583min (+0.017) 5.80ug/L

response 3477

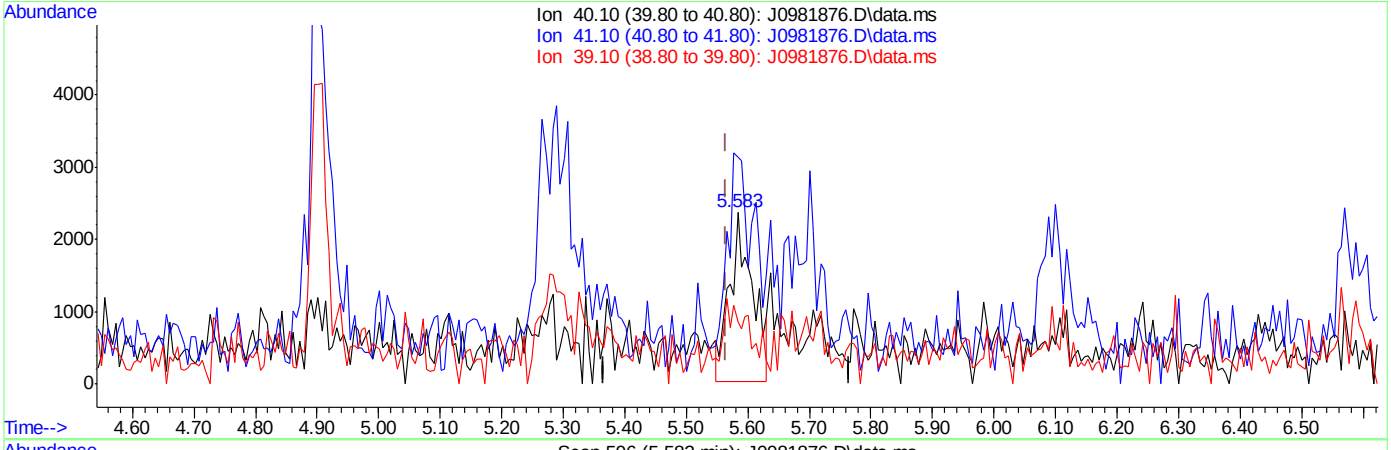
Ion	Exp%	Act%
40.10	100	100
41.10	210.50	143.57#
39.10	32.10	28.52
0.00	0.00	0.00

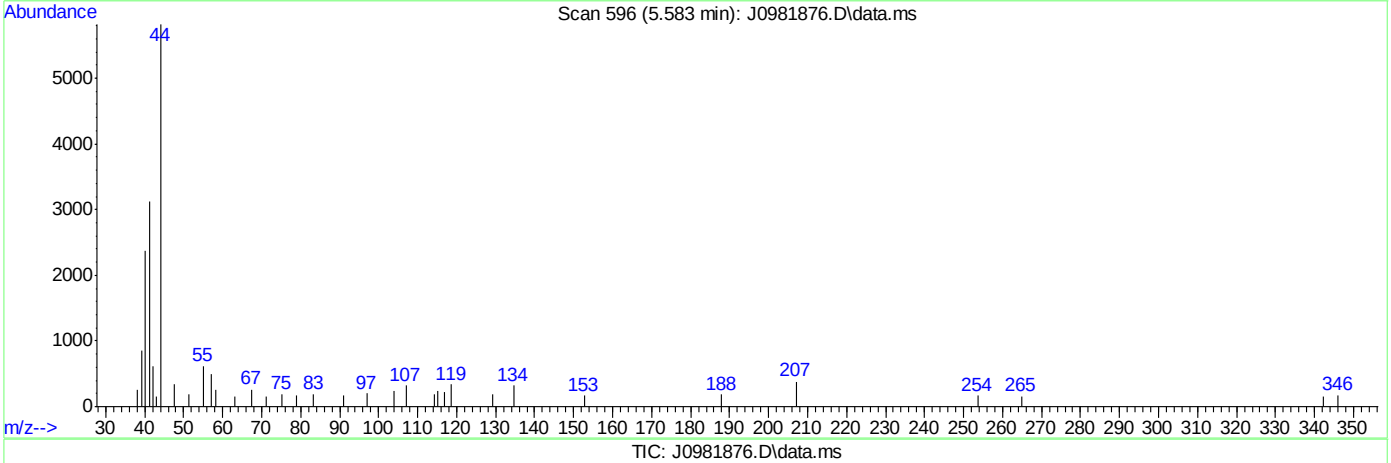
SGS ACCUTEST FA39742

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\123016\
Data File : J0981876.D
Acq On : 30 Dec 2016 12:50 pm
Operator : melissam
Sample : ic5529-1 Inst : MSVOA6
Misc : MS35465,VJ5529,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 30 15:47:05 2016
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Dec 30 13:30:44 2016
Response via : Initial Calibration





TIC: J0981876.D\data.ms

(22) Acetonitrile

5.583min (+0.017) 10.17ug/L m

response 6093

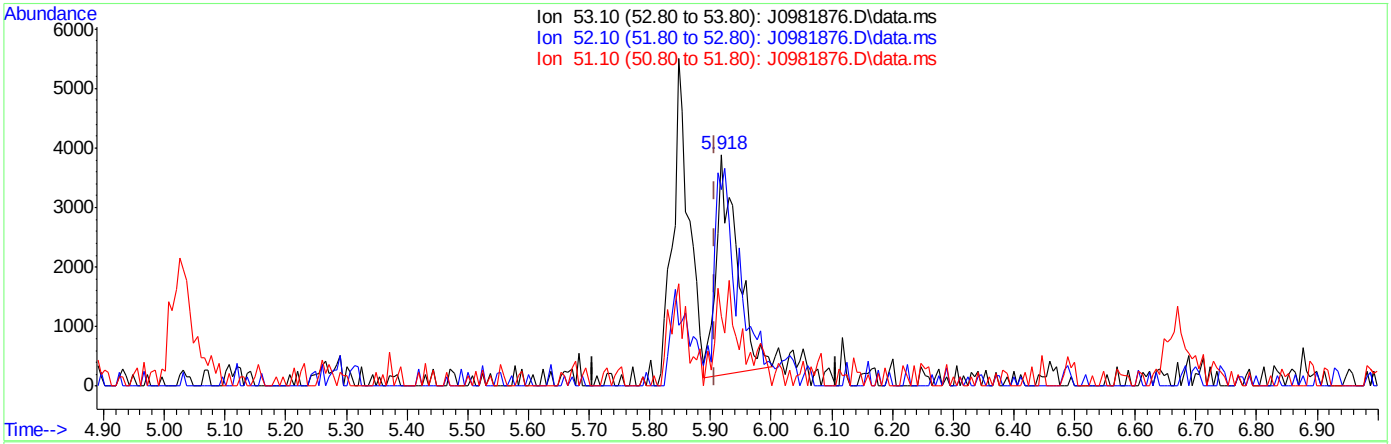
Ion	Exp%	Act%
40.10	100	100
41.10	210.50	131.50#
39.10	32.10	35.87
0.00	0.00	0.00

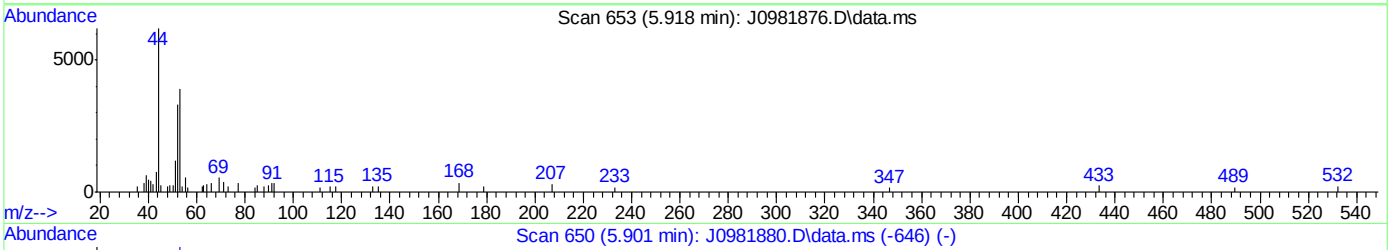
SGS ACCUTEST FA39742

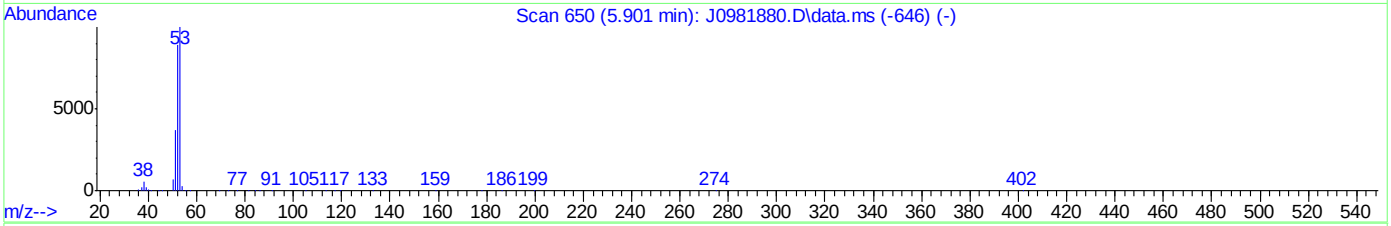
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\123016\
Data File : J0981876.D
Acq On : 30 Dec 2016 12:50 pm
Operator : melissam
Sample : ic5529-1 Inst : MSVOA6
Misc : MS35465,VJ5529,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 30 15:47:05 2016
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Dec 30 13:30:44 2016
Response via : Initial Calibration







TIC: J0981876.D\data.ms

(26) Acrylonitrile

5.918min (+0.011) 2.74ug/L

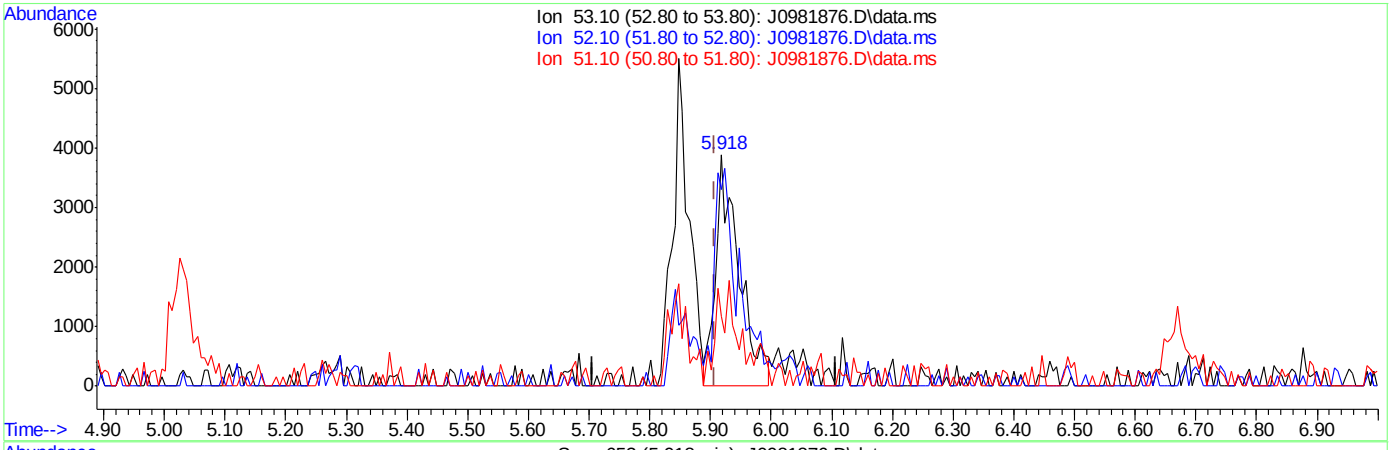
response 9015

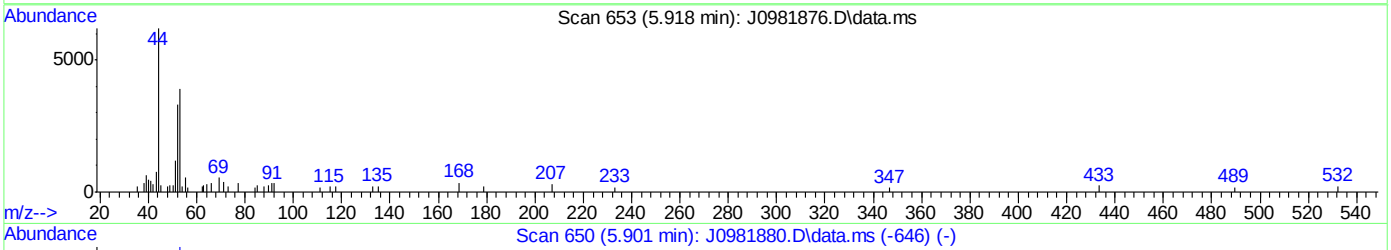
Ion	Exp%	Act%
53.10	100	100
52.10	76.10	82.98
51.10	37.50	33.09
0.00	0.00	0.00

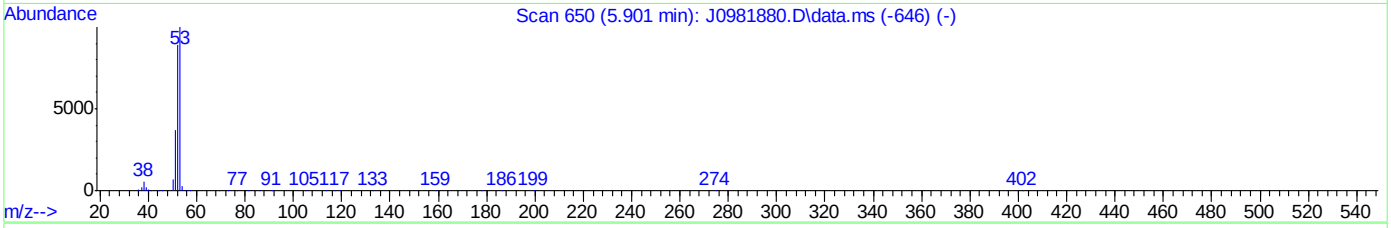
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\123016\
Data File : J0981876.D
Acq On : 30 Dec 2016 12:50 pm
Operator : melissam
Sample : ic5529-1 Inst : MSVOA6
Misc : MS35465,VJ5529,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 30 15:47:05 2016
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Dec 30 13:30:44 2016
Response via : Initial Calibration







TIC: J0981876.D\data.ms

(26) Acrylonitrile

5.918min (+0.011) 3.16ug/L m

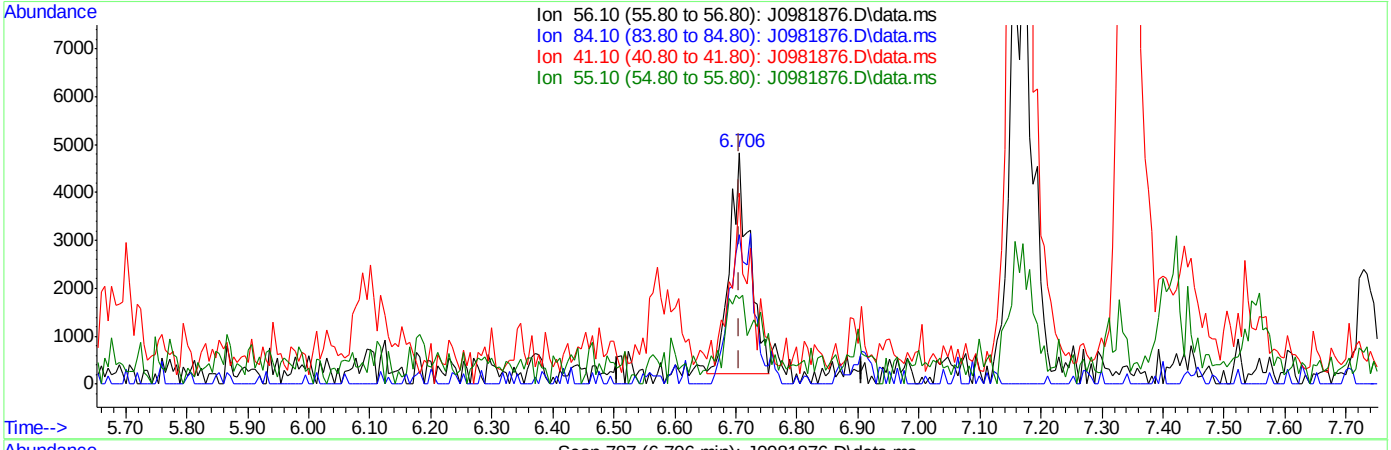
response 10405

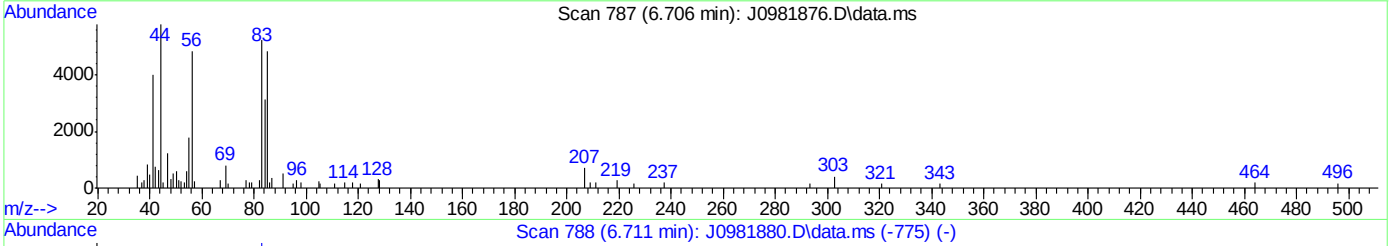
Ion	Exp%	Act%
53.10	100	100
52.10	76.10	84.86
51.10	37.50	30.38
0.00	0.00	0.00

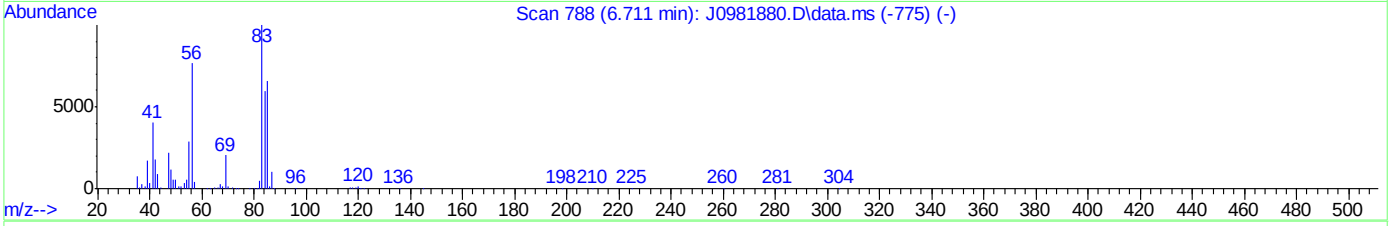
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\123016\
Data File : J0981876.D
Acq On : 30 Dec 2016 12:50 pm
Operator : melissam
Sample : ic5529-1 Inst : MSVOA6
Misc : MS35465,VJ5529,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 30 15:47:05 2016
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Dec 30 13:30:44 2016
Response via : Initial Calibration







TIC: J0981876.D\data.ms

(32) Cyclohexane

6.706min (-0.000) 0.63ug/L

response 10425

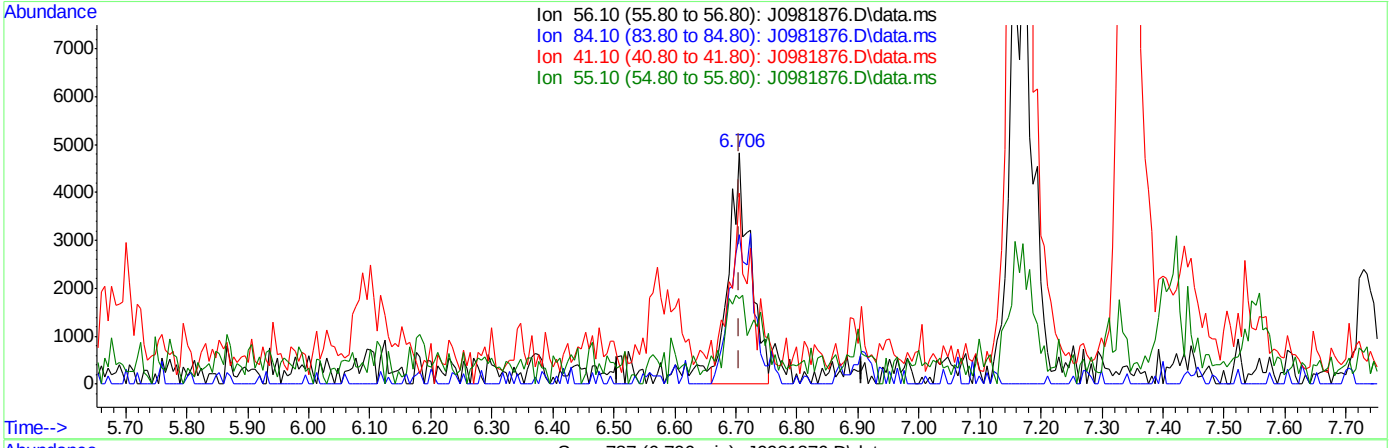
Ion	Exp%	Act%
56.10	100	100
84.10	80.30	67.49
41.10	61.60	75.45
55.10	38.90	32.40

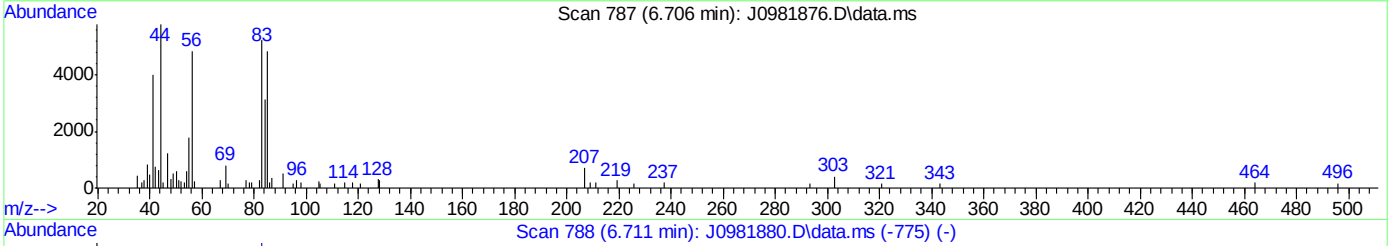
SGS ACCUTEST FA39742

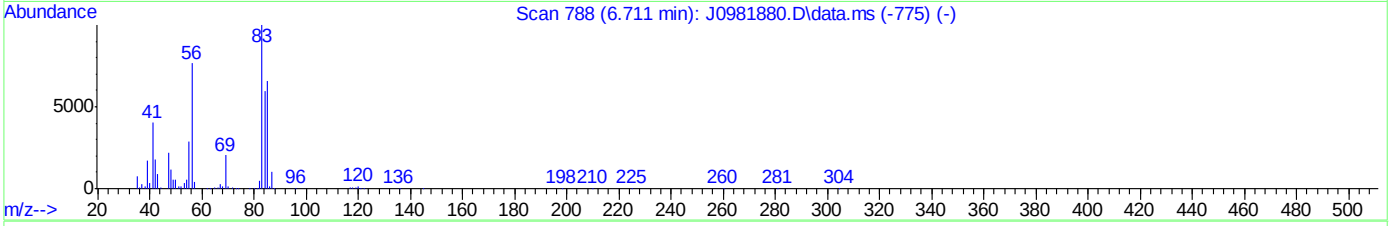
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\123016\
Data File : J0981876.D
Acq On : 30 Dec 2016 12:50 pm
Operator : melissam
Sample : ic5529-1 Inst : MSVOA6
Misc : MS35465,VJ5529,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 30 15:47:05 2016
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Dec 30 13:30:44 2016
Response via : Initial Calibration







TIC: J0981876.D\data.ms

(32) Cyclohexane

6.706min (-0.000) 0.71ug/L m

response 11643

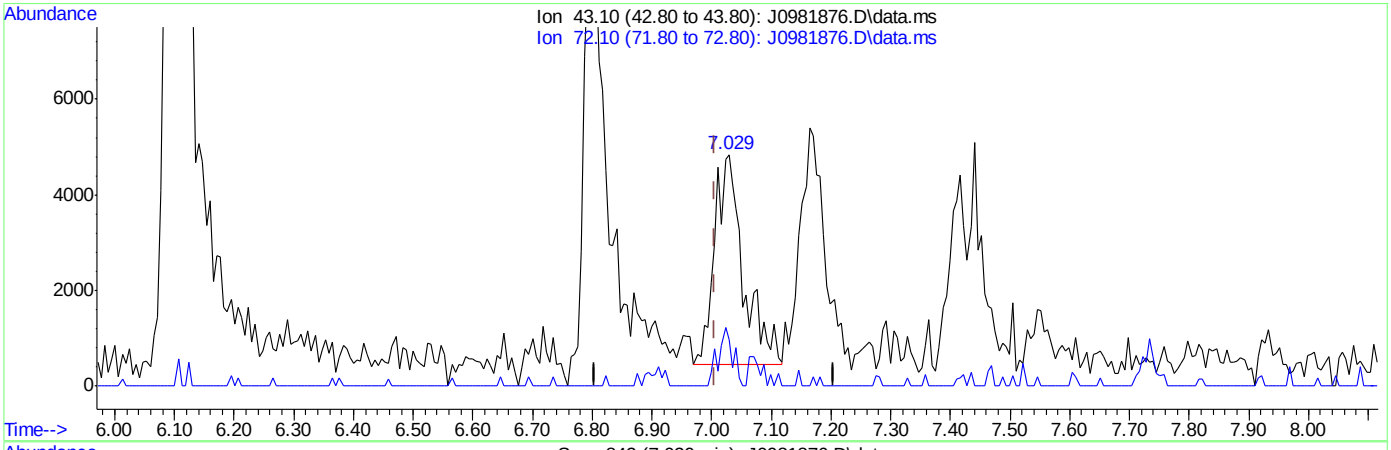
Ion	Exp%	Act%
56.10	100	100
84.10	80.30	64.36
41.10	61.60	82.59#
55.10	38.90	36.96

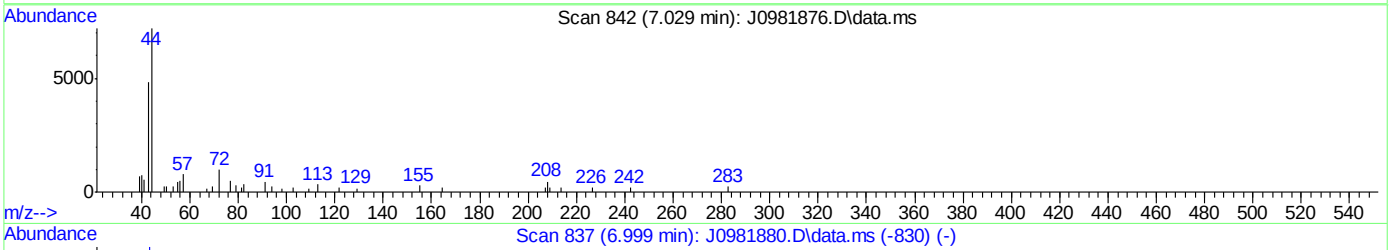
SGS ACCUTEST FA39742

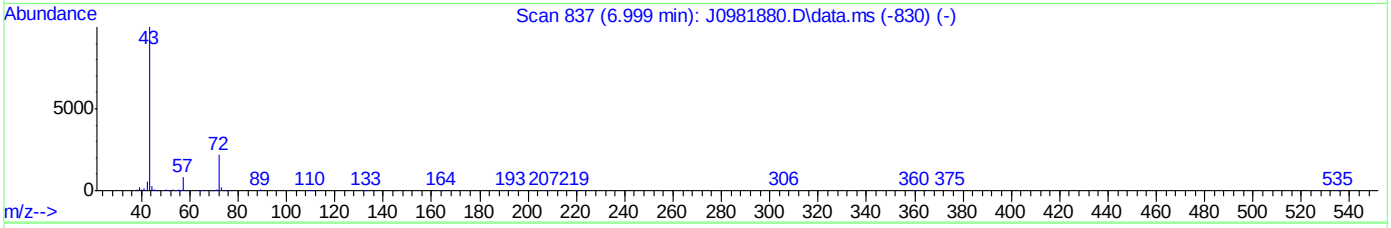
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\123016\
Data File : J0981876.D
Acq On : 30 Dec 2016 12:50 pm
Operator : melissam
Sample : ic5529-1 Inst : MSVOA6
Misc : MS35465,VJ5529,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 30 15:47:05 2016
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Dec 30 13:30:44 2016
Response via : Initial Calibration







TIC: J0981876.D\data.ms

(39) 2-Butanone

7.029min (+0.024) 4.38ug/L

response 14709

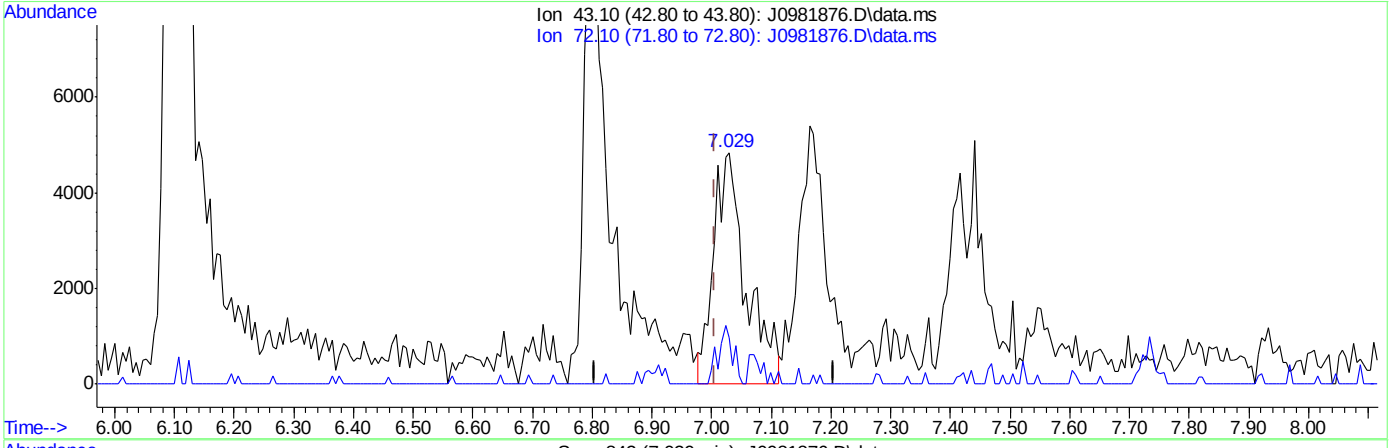
Ion	Exp%	Act%
43.10	100	100
72.10	21.90	21.92
0.00	0.00	0.00
0.00	0.00	0.00

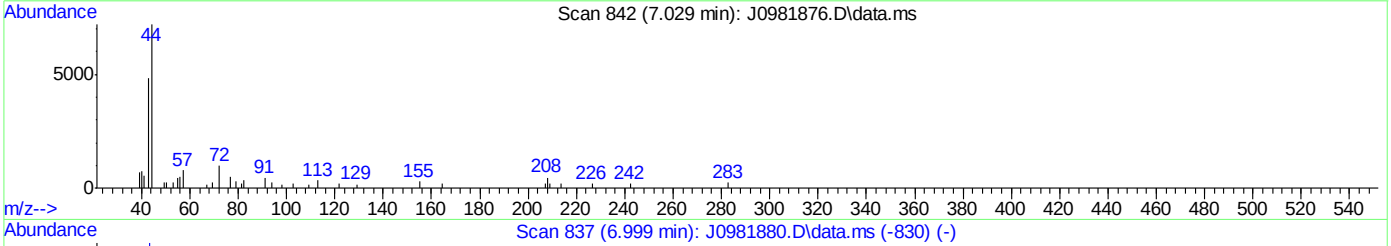
SGS ACCUTEST FA39742

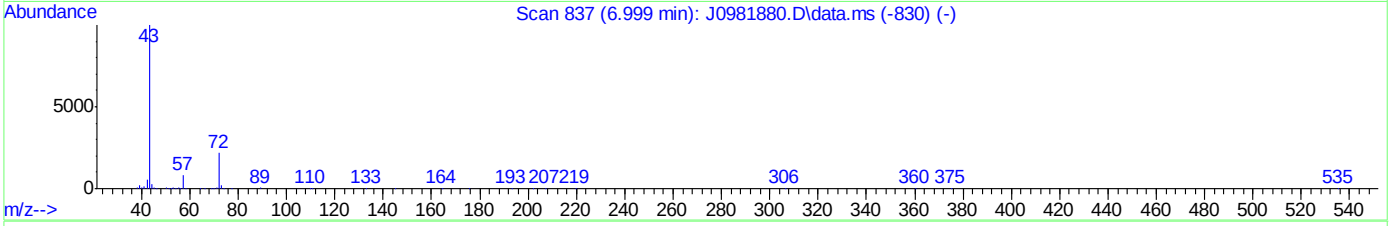
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\123016\
Data File : J0981876.D
Acq On : 30 Dec 2016 12:50 pm
Operator : melissam
Sample : ic5529-1 Inst : MSVOA6
Misc : MS35465,VJ5529,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 30 15:47:05 2016
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Dec 30 13:30:44 2016
Response via : Initial Calibration







TIC: J0981876.D\data.ms

(39) 2-Butanone

7.029min (+0.024) 5.41ug/L m

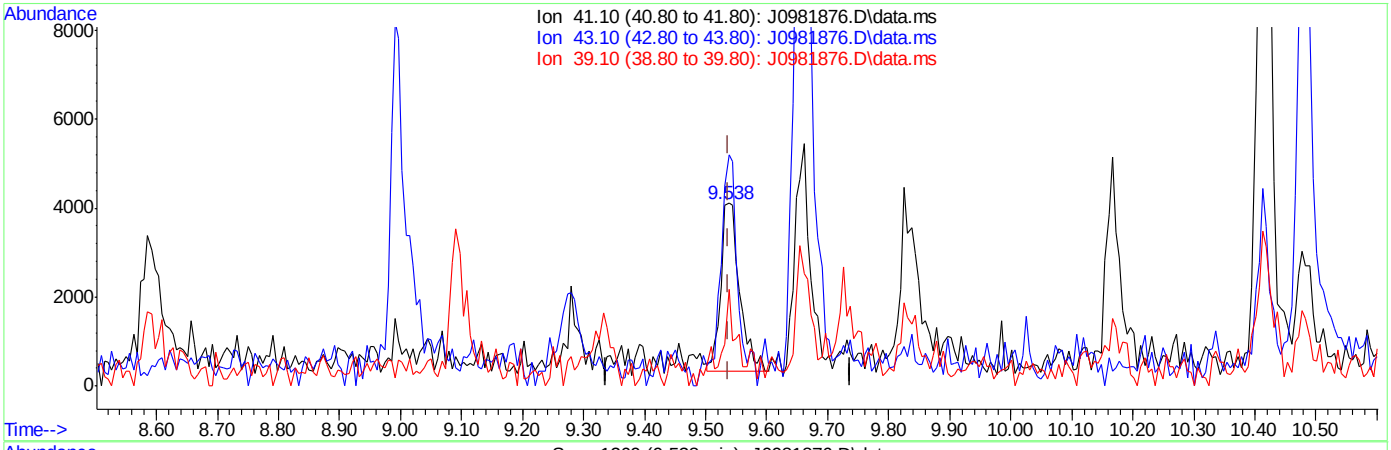
response 18192

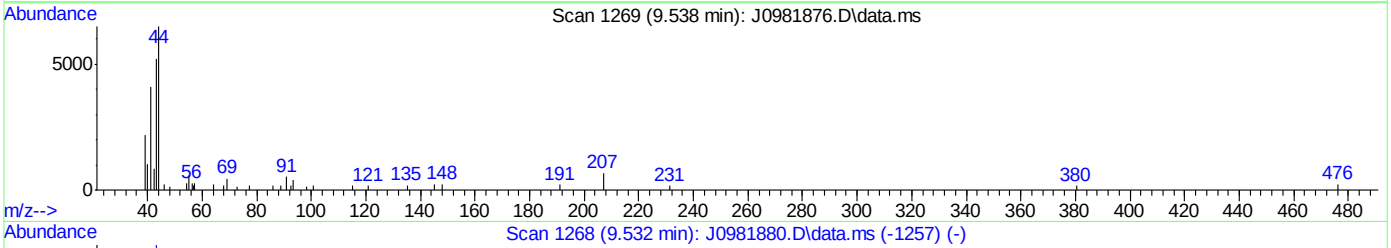
Ion	Exp%	Act%
43.10	100	100
72.10	21.90	19.92
0.00	0.00	0.00
0.00	0.00	0.00

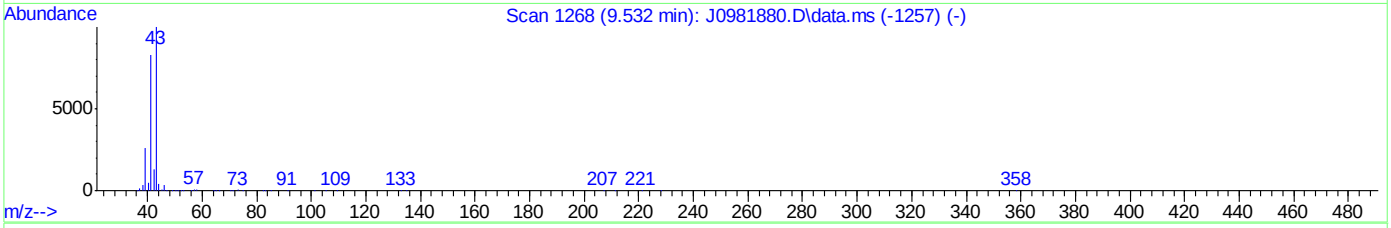
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\123016\
Data File : J0981876.D
Acq On : 30 Dec 2016 12:50 pm
Operator : melissam
Sample : ic5529-1 Inst : MSVOA6
Misc : MS35465,VJ5529,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 30 15:47:05 2016
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Dec 30 13:30:44 2016
Response via : Initial Calibration







TIC: J0981876.D\data.ms

(59) 2-Nitropropane

9.538min (-0.000) 3.87ug/L

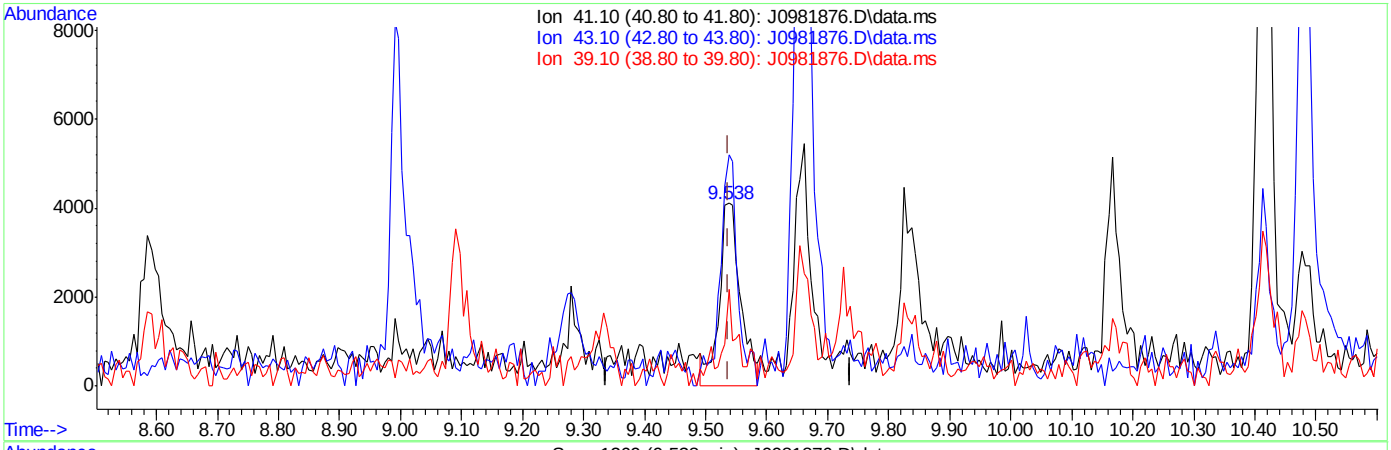
response 7980

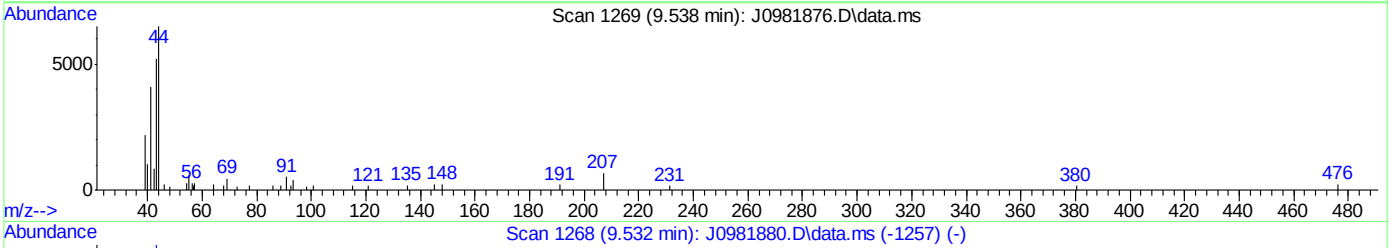
Ion	Exp%	Act%
41.10	100	100
43.10	114.90	125.53
39.10	35.20	45.41
0.00	0.00	0.00

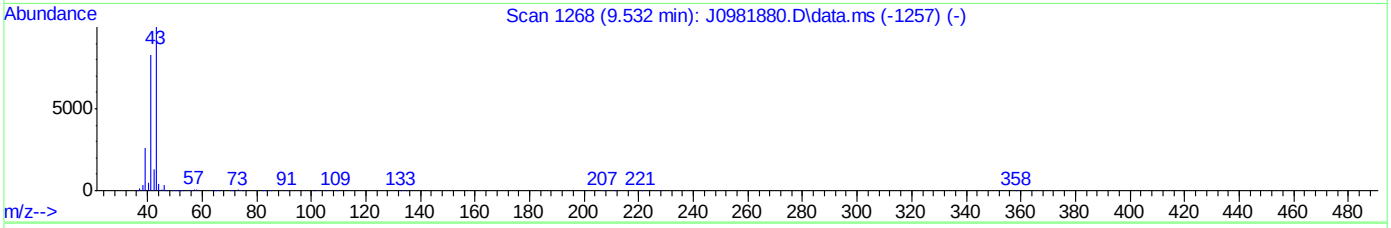
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\123016\
Data File : J0981876.D
Acq On : 30 Dec 2016 12:50 pm
Operator : melissam
Sample : ic5529-1 Inst : MSVOA6
Misc : MS35465,VJ5529,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 30 15:47:05 2016
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Dec 30 13:30:44 2016
Response via : Initial Calibration







TIC: J0981876.D\data.ms

(59) 2-Nitropropane

9.538min (-0.000) 4.80ug/L m

response 9882

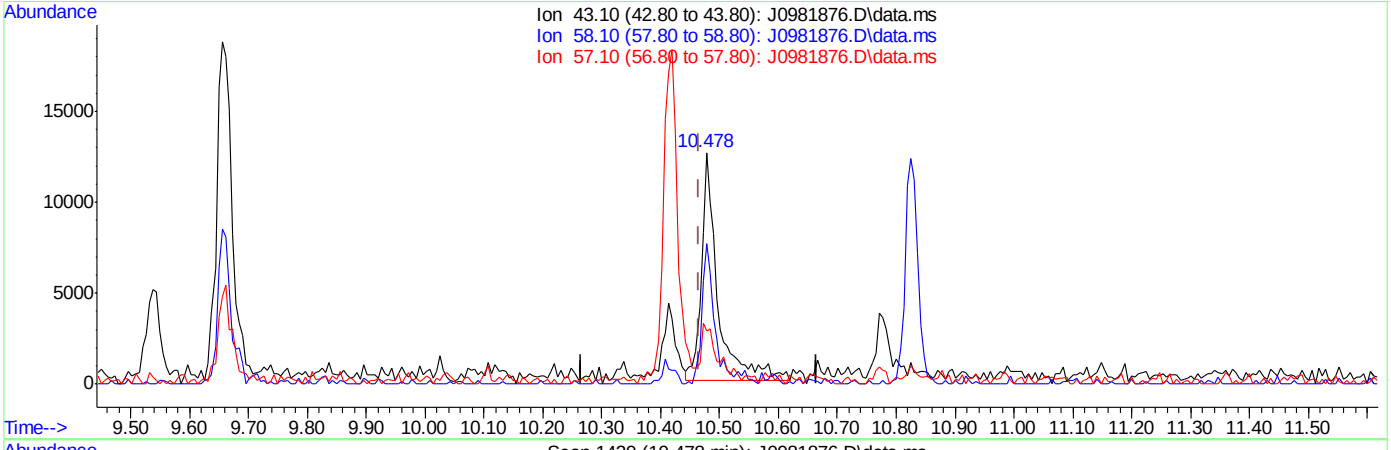
Ion	Exp%	Act%
41.10	100	100
43.10	114.90	126.71
39.10	35.20	53.20
0.00	0.00	0.00

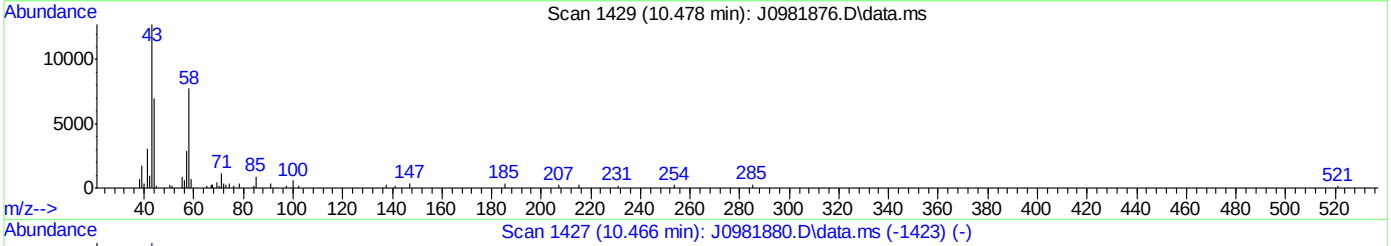
SGS ACCUTEST FA39742

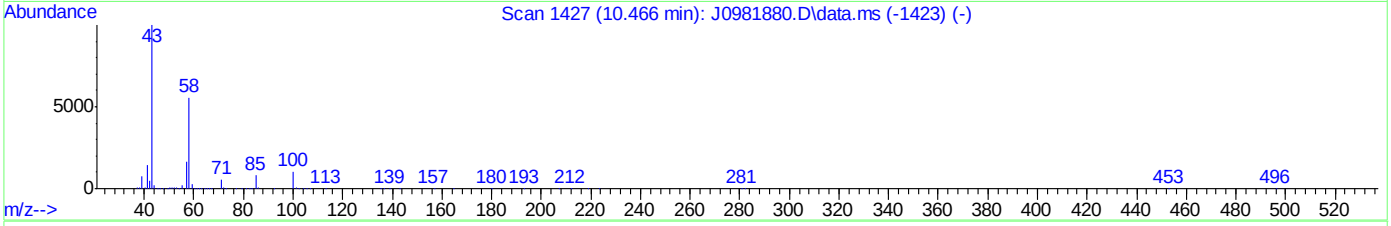
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\123016\
Data File : J0981876.D
Acq On : 30 Dec 2016 12:50 pm
Operator : melissam
Sample : ic5529-1 Inst : MSVOA6
Misc : MS35465,VJ5529,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 30 15:47:05 2016
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Dec 30 13:30:44 2016
Response via : Initial Calibration







TIC: J0981876.D\data.ms

(68) 2-hexanone

10.478min (+0.012) 4.09ug/L

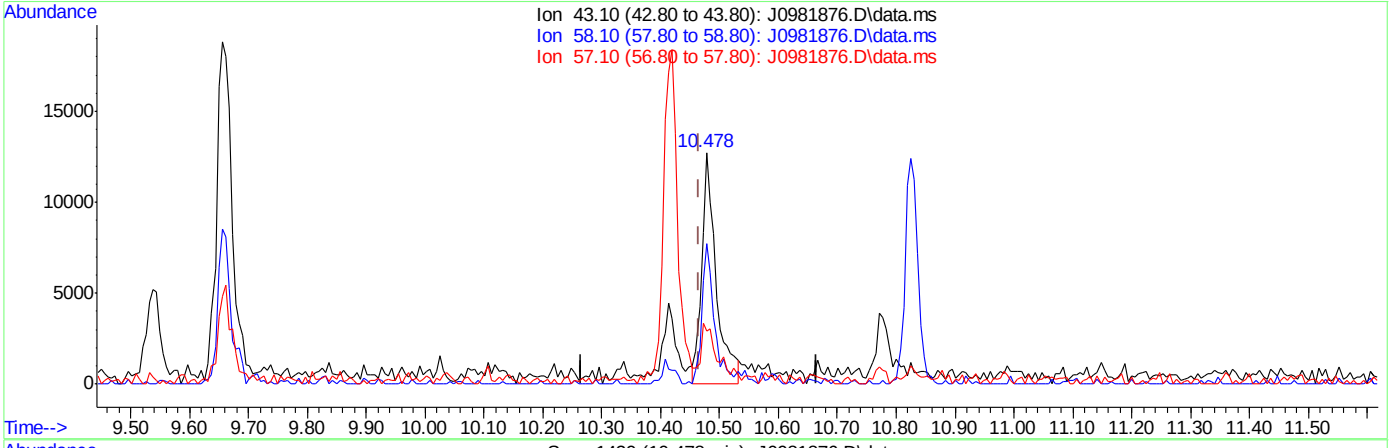
response 24197

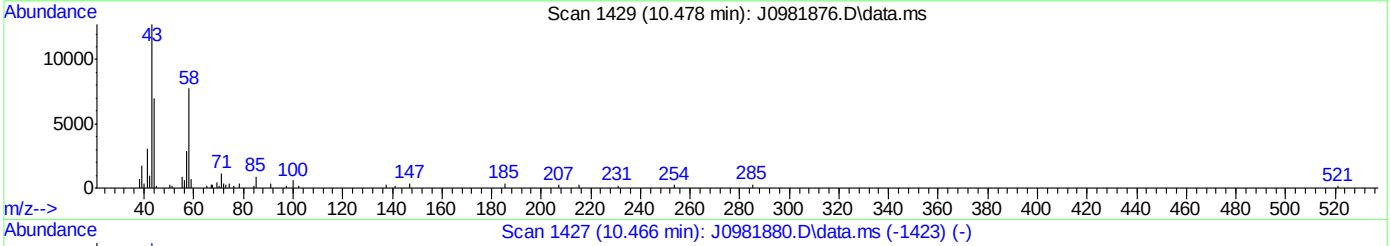
Ion	Exp%	Act%
43.10	100	100
58.10	50.30	61.95
57.10	18.90	19.28
0.00	0.00	0.00

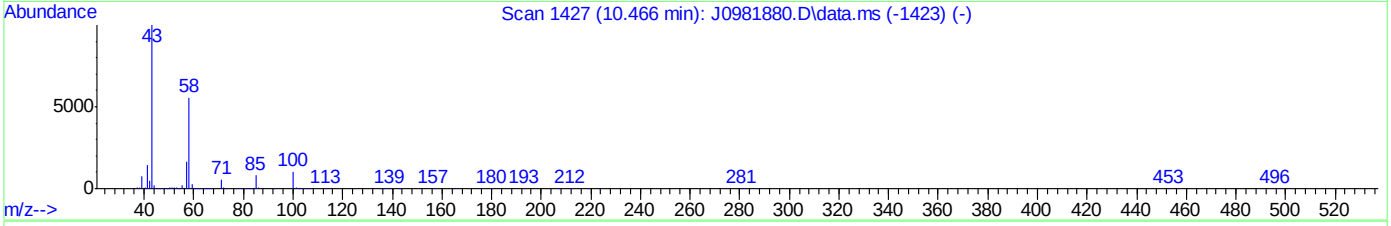
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\123016\
Data File : J0981876.D
Acq On : 30 Dec 2016 12:50 pm
Operator : melissam
Sample : ic5529-1 Inst : MSVOA6
Misc : MS35465,VJ5529,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 30 15:47:05 2016
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Dec 30 13:30:44 2016
Response via : Initial Calibration







TIC: J0981876.D\data.ms

(68) 2-hexanone

10.478min (+0.012) 3.70ug/L m

response 21891

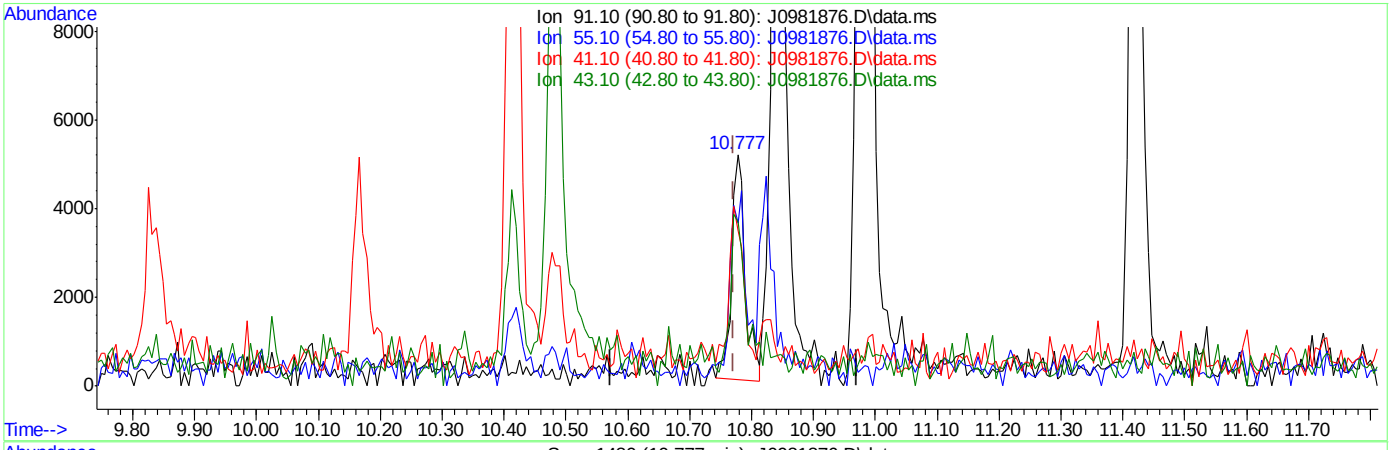
Ion	Exp%	Act%
43.10	100	100
58.10	50.30	60.79
57.10	18.90	22.87
0.00	0.00	0.00

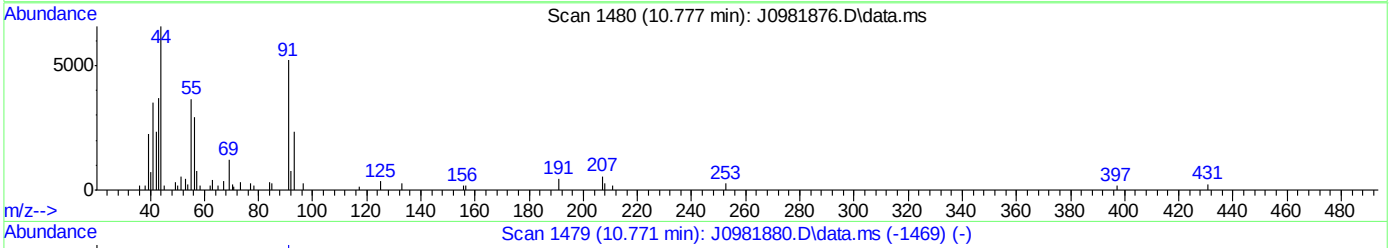
SGS ACCUTEST FA39742

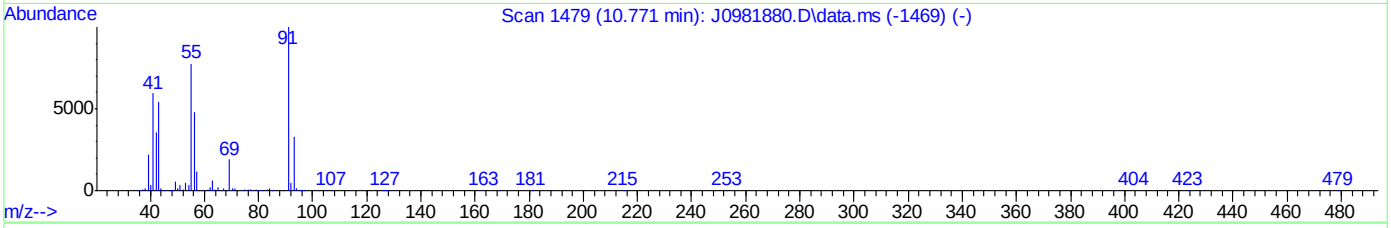
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\123016\
Data File : J0981876.D
Acq On : 30 Dec 2016 12:50 pm
Operator : melissam
Sample : ic5529-1 Inst : MSVOA6
Misc : MS35465,VJ5529,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 30 15:47:05 2016
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Dec 30 13:30:44 2016
Response via : Initial Calibration







TIC: J0981876.D\data.ms

(69) 1-Chlorohexane

10.777min (+0.005) 0.80ug/L

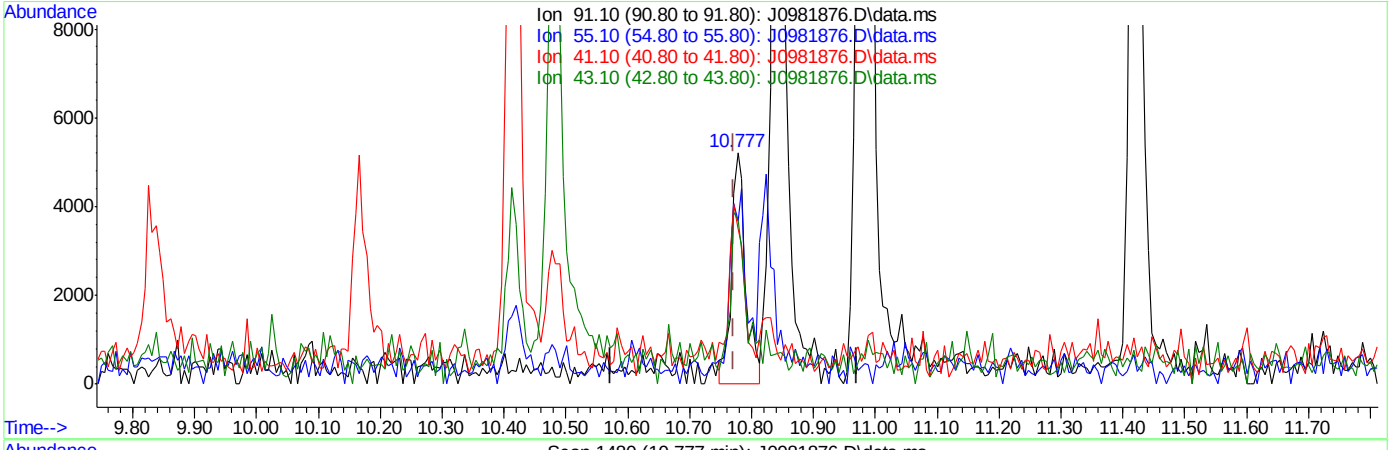
response 7652

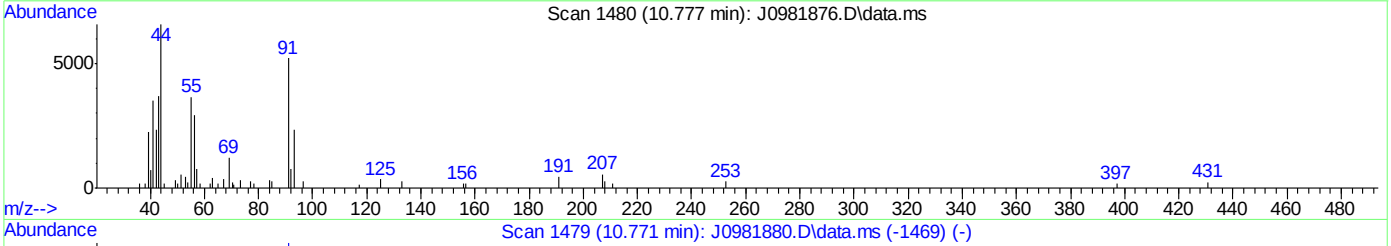
Ion	Exp%	Act%
91.10	100	100
55.10	86.10	63.66#
41.10	74.90	59.26
43.10	57.40	65.33

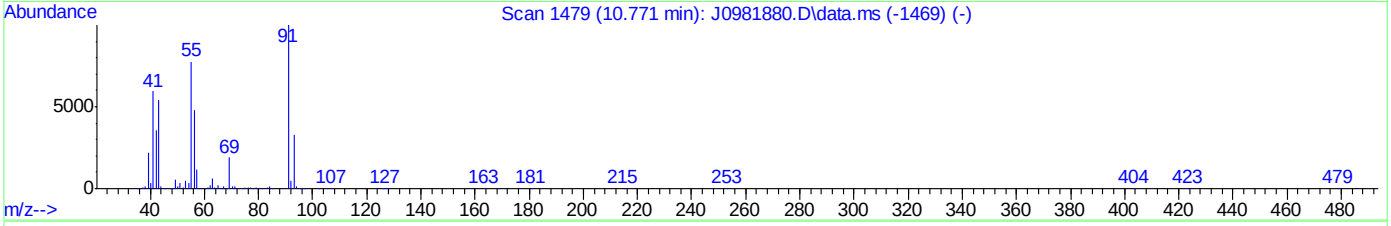
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\123016\
Data File : J0981876.D
Acq On : 30 Dec 2016 12:50 pm
Operator : melissam
Sample : ic5529-1 Inst : MSVOA6
Misc : MS35465,VJ5529,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 30 15:47:05 2016
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Dec 30 13:30:44 2016
Response via : Initial Calibration







TIC: J0981876.D\data.ms

(69) 1-Chlorohexane

10.777min (+0.005) 0.85ug/L m

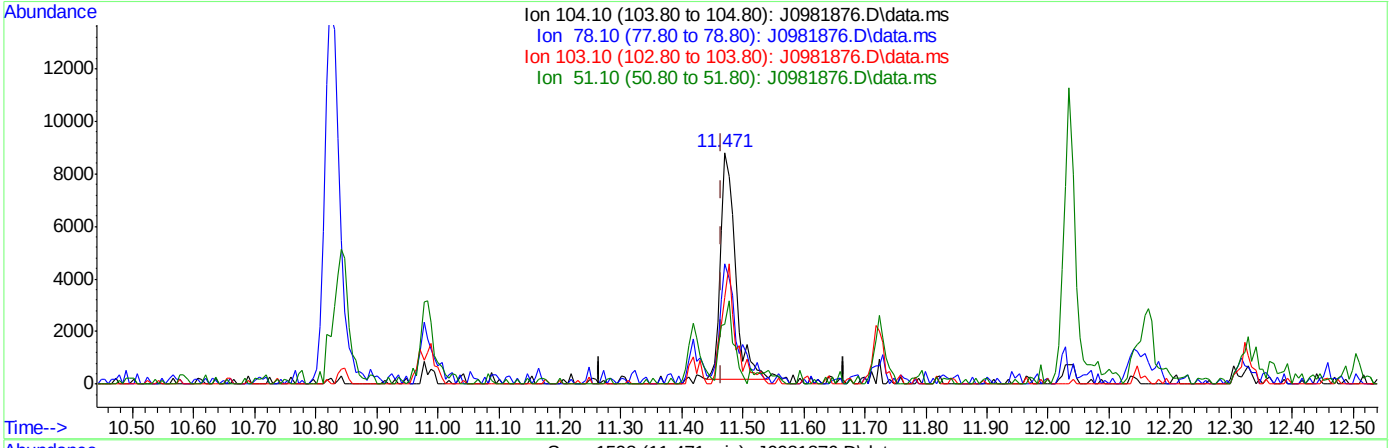
response 8106

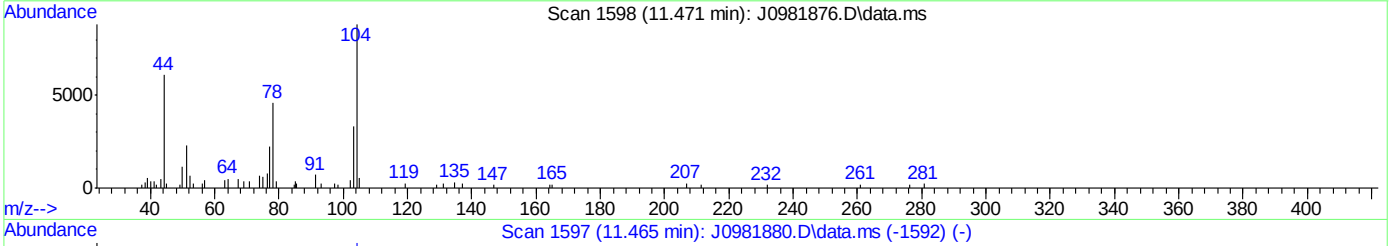
Ion	Exp%	Act%
91.10	100	100
55.10	86.10	70.34
41.10	74.90	67.18
43.10	57.40	70.63

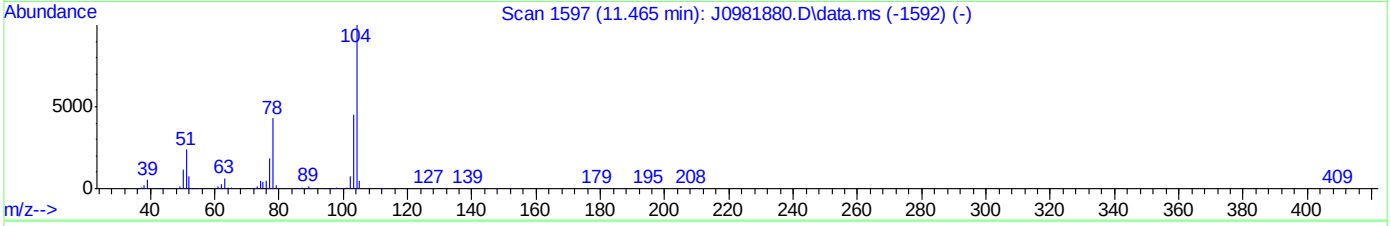
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\123016\
Data File : J0981876.D
Acq On : 30 Dec 2016 12:50 pm
Operator : melissam
Sample : ic5529-1 Inst : MSVOA6
Misc : MS35465,VJ5529,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 30 15:47:05 2016
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Dec 30 13:30:44 2016
Response via : Initial Calibration







TIC: J0981876.D\data.ms

(75) Styrene ( )

11.471min (+0.006) 0.76ug/L

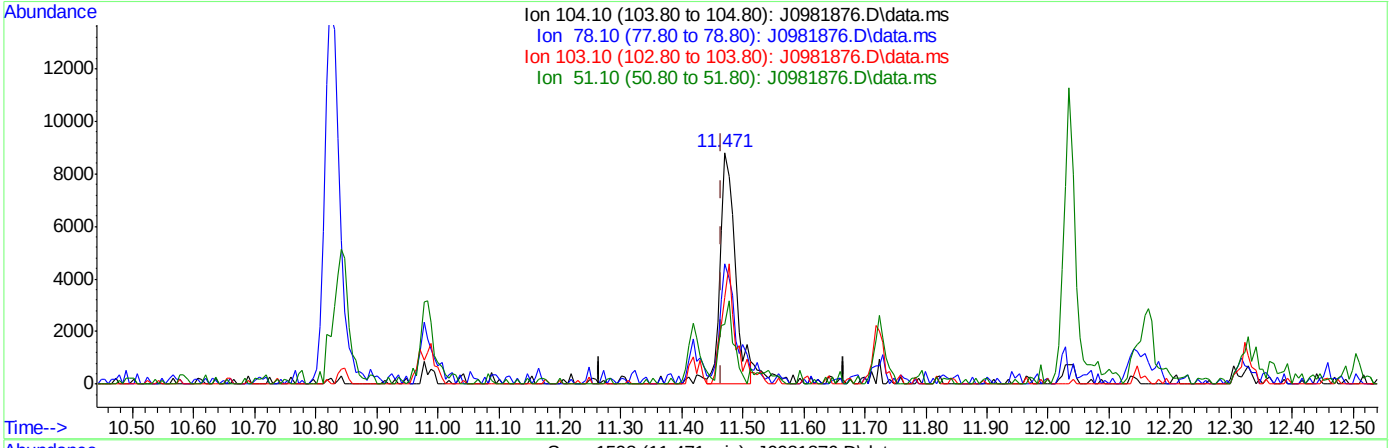
response 14415

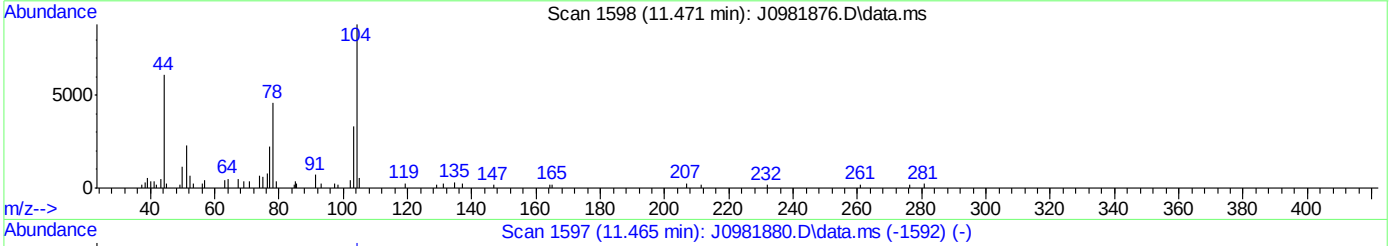
Ion	Exp%	Act%
104.10	100	100
78.10	49.20	49.95
103.10	49.10	38.26
51.10	29.40	20.94

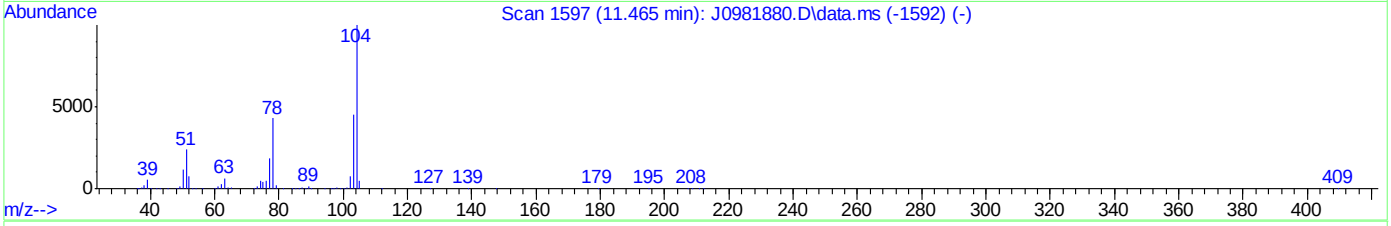
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\123016\
Data File : J0981876.D
Acq On : 30 Dec 2016 12:50 pm
Operator : melissam
Sample : ic5529-1 Inst : MSVOA6
Misc : MS35465,VJ5529,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 30 15:47:05 2016
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Dec 30 13:30:44 2016
Response via : Initial Calibration







TIC: J0981876.D\data.ms

(75) Styrene ( )

11.471min (+0.006) 0.78ug/L m

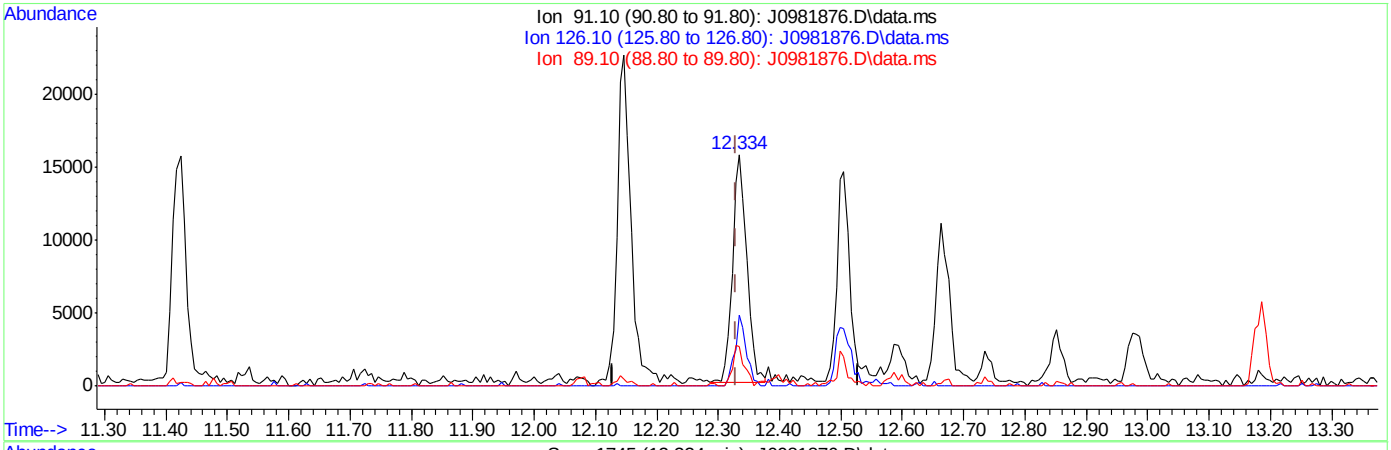
response 14812

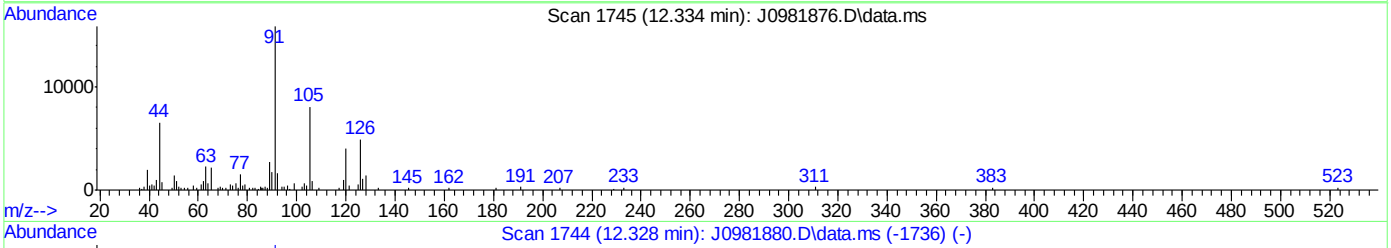
Ion	Exp%	Act%
104.10	100	100
78.10	49.20	51.77
103.10	49.10	37.37
51.10	29.40	25.89

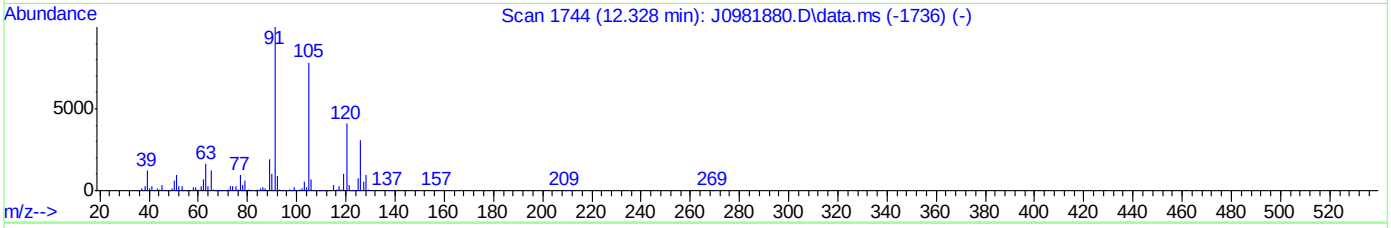
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\123016\
Data File : J0981876.D
Acq On : 30 Dec 2016 12:50 pm
Operator : melissam
Sample : ic5529-1 Inst : MSVOA6
Misc : MS35465,VJ5529,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 30 15:47:05 2016
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Dec 30 13:30:44 2016
Response via : Initial Calibration







TIC: J0981876.D\data.ms

(85) 2-Chlorotoluene ( )

12.334min (+0.005) 0.90ug/L

response 24926

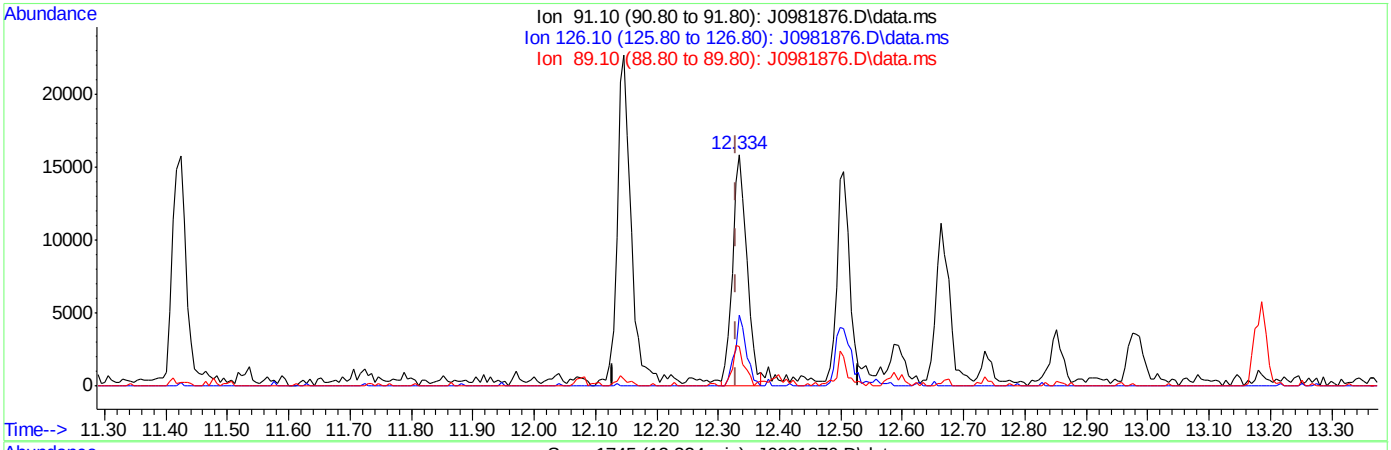
Ion	Exp%	Act%
91.10	100	100
126.10	29.80	31.34
89.10	19.70	16.20
0.00	0.00	0.00

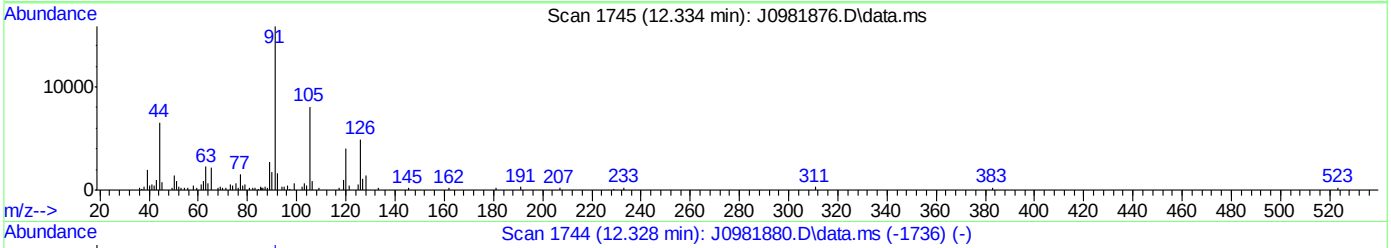
SGS ACCUTEST FA39742

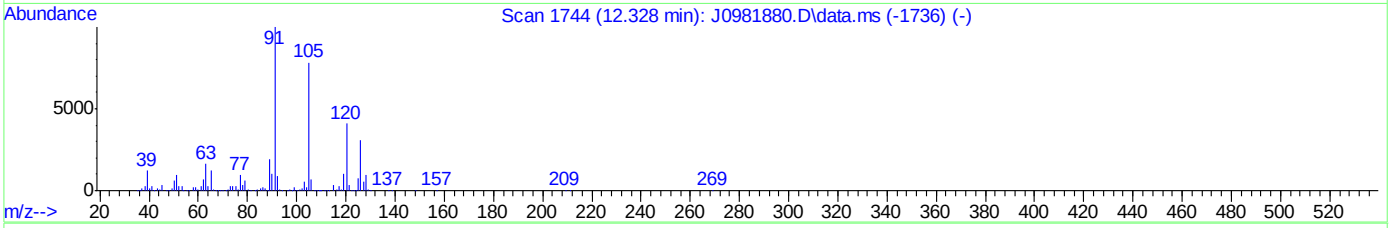
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\123016\
Data File : J0981876.D
Acq On : 30 Dec 2016 12:50 pm
Operator : melissam
Sample : ic5529-1 Inst : MSVOA6
Misc : MS35465,VJ5529,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 30 15:47:05 2016
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Dec 30 13:30:44 2016
Response via : Initial Calibration







TIC: J0981876.D\data.ms

(85) 2-Chlorotoluene ( )

12.334min (+0.005) 0.92ug/L m

response 25678

Ion	Exp%	Act%
91.10	100	100
126.10	29.80	30.84
89.10	19.70	16.95
0.00	0.00	0.00

Manual Integrations APPROVED (compounds with "m" flag)
Juan Garcia
01/03/17 15:48

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\123016\
Data File : J0981877.D
Acq On : 30 Dec 2016 1:13 pm
Operator : melissam
Sample : ic5529-2 Inst : MSVOA6
Misc : MS35465,VJ5529,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jan 03 08:18:04 2017
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Dec 30 13:30:44 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.734	96	651969	50.00	ug/L	0.00
56) Chlorobenzene-d5	10.824	117	481887	50.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	13.186	152	254610	50.00	ug/L	0.00
106) Tert Butyl Alcohol-d10	5.278	65	85080	250.00	ug/L	-0.01
System Monitoring Compounds						
36) Dibromofluoromethane	6.905	113	156413	41.89	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 83.78%			
46) 1,2-Dichloroethane-d4	7.452	65	207678	39.84	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 79.68%			
57) Toluene-d8	9.279	98	622468	52.11	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 104.22%			
79) 4-Bromofluorobenzene	12.035	95	255392	60.58	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 121.16%#			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.652	85	38984	5.07	ug/L	97
3) Chloromethane	2.863	50	56662	4.28	ug/L	92
4) Vinyl Chloride	2.998	62	34010	2.97	ug/L	80
5) 1,3-Butadiene	3.010	54	19288	2.08	ug/L #	82
6) Bromomethane	3.427	94	20711	3.04	ug/L	83
7) Chloroethane	3.592	64	15924	2.95	ug/L	86
8) Trichlorofluoromethane	3.809	101	41959m	2.39	ug/L	
9) Ethyl Ether	4.103	59	29306	4.22	ug/L	91
10) 1,2-Dichlorotrifluoroe...	4.332	67	36883	4.10	ug/L	90
11) 1,1-Dichloroethene	4.379	61	52500	4.53	ug/L	88
12) Freon 113	4.438	101	31031	3.76	ug/L	93
13) Carbon Disulfide	4.449	76	105823	4.38	ug/L	98
14) Iodomethane	4.561	142	54842	4.37	ug/L	98
15) Allyl chloride	4.902	41	57328	4.11	ug/L	86
16) Methylene Chloride	5.025	49	57719	4.07	ug/L	98
17) Acetone	5.049	58	12557	19.89	ug/L #	84
18) Methyl acetate	5.178	74	21646	21.90	ug/L	96
19) trans-1,2-Dichloroethene	5.207	61	51044	4.90	ug/L	97
20) Hexane	5.278	56	38158	4.36	ug/L #	84
21) Methyl Tert Butyl Ether	5.313	73	98055	5.08	ug/L	93
22) Acetonitrile	5.583	40	19922	36.38	ug/L #	61
23) Di-isopropyl ether	5.695	45	134941	4.52	ug/L	93
24) Chloroprene	5.848	53	45921	3.47	ug/L	84
25) 1,1-Dichloroethane	5.871	63	59570	3.92	ug/L	90
26) Acrylonitrile	5.907	53	65699	21.90	ug/L	98
27) ETBE	6.095	59	124064	4.66	ug/L	98
28) Vinyl acetate	6.089	43	396482	19.74	ug/L	92
29) cis-1,2-Dichloroethene	6.453	96	37345	5.51	ug/L	85
30) 2,2-Dichloropropane	6.576	77	52496	4.85	ug/L	99
31) Bromochloromethane	6.670	128	15668	4.19	ug/L #	86
32) Cyclohexane	6.706	56	68755	4.57	ug/L	91
33) Chloroform	6.712	83	61752	4.39	ug/L	97
34) Ethyl acetate	6.788	43	157669	19.89	ug/L	91

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\123016\
Data File : J0981877.D
Acq On : 30 Dec 2016 1:13 pm
Operator : melissam
Sample : ic5529-2 Inst : MSVOA6
Misc : MS35465,VJ5529,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jan 03 08:18:04 2017
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Dec 30 13:30:44 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
35) Tetrahydrofuran	6.900	42	12167m	5.62	ug/L		
37) Carbon Tetrachloride	6.905	117	40446m	3.67	ug/L		
38) 1,1,1-Trichloroethane	6.970	97	53878	4.54	ug/L		89
39) 2-Butanone	7.005	43	66743	21.67	ug/L		92
40) 1,1-Dichloropropene	7.076	75	41855	4.99	ug/L		89
41) tert-Butyl Formate	7.164	59	377105	59.73	ug/L	#	80
42) Propionitrile	7.311	54	45249	42.13	ug/L		97
43) Methacrylonitrile	7.340	41	206810	40.35	ug/L		92
44) Benzene	7.334	78	116098	4.93	ug/L		92
45) TAME	7.411	73	99915	4.85	ug/L		87
47) 1,2-Dichloroethane	7.528	62	46766	4.10	ug/L		94
48) Trichloroethene	7.916	95	31987	4.58	ug/L		94
49) Methylcyclohexane	7.934	83	59638	4.48	ug/L		90
50) Dibromomethane	8.339	93	18691	4.33	ug/L		89
51) 1,2-Dichloropropane	8.427	63	34622	4.81	ug/L		86
52) Bromodichloromethane	8.468	83	42887	4.50	ug/L		91
53) Methyl methacrylate	8.574	41	27492m	4.41	ug/L		
54) 2-Chloroethyl vinyl ether	8.985	63	104629	21.88	ug/L		97
55) cis-1,3-Dichloropropene	9.085	75	54154	4.51	ug/L		97
58) Toluene	9.332	91	125263	5.36	ug/L		99
59) 2-Nitropropane	9.532	41	38394	20.42	ug/L		96
60) 4-Methyl-2-pentanone	9.655	43	173095	23.16	ug/L		95
61) trans-1,3-Dichloropropene	9.720	75	43431	4.66	ug/L		94
62) Tetrachloroethene	9.737	166	34173	4.66	ug/L		83
63) Ethyl methacrylate	9.820	69	40428	5.50	ug/L		92
64) 1,1,2-Trichloroethane	9.878	83	24264	4.88	ug/L		82
65) Dibromochloromethane	10.084	129	29814	4.93	ug/L		100
66) 1,3-Dichloropropane	10.161	76	49194	4.83	ug/L		95
67) 1,2-Dibromoethane	10.343	107	28039	5.02	ug/L		95
68) 2-hexanone	10.472	43	113734	21.22	ug/L		100
69) 1-Chlorohexane	10.772	91	41916	4.80	ug/L		94
70) Ethylbenzene	10.842	91	145750	5.42	ug/L		93
71) Chlorobenzene	10.842	112	90634	5.06	ug/L		92
72) 1,1,1,2-Tetrachloroethane	10.895	131	30989	4.38	ug/L		95
73) m,p-Xylene	10.977	91	238080	9.73	ug/L		94
74) o-Xylene	11.418	91	124739	5.02	ug/L		96
75) Styrene	11.465	104	86368	4.97	ug/L		98
76) Bromoform	11.524	173	19633	4.91	ug/L		97
77) Isopropylbenzene	11.723	105	155475	5.12	ug/L		95
80) cis-1,4-Dichloro-2-butene	12.076	53	10386	4.76	ug/L	#	70
81) n-Propylbenzene	12.141	91	191427	5.07	ug/L		98
82) Bromobenzene	12.164	156	37814	5.52	ug/L		91
83) 1,1,2,2-Tetrachloroethane	12.199	83	38985	5.46	ug/L		92
84) 1,3,5-Trimethylbenzene	12.323	105	121157	4.97	ug/L		97
85) 2-Chlorotoluene	12.329	91	128199	4.99	ug/L		99
86) trans-1,4-Dichloro-2-B...	12.381	53	11560	4.81	ug/L	#	78
87) 1,2,3-Trichloropropane	12.364	110	10138	4.58	ug/L		96
88) Cyclohexanone	12.428	55	8707	31.50	ug/L		79
89) 4-Chlorotoluene	12.499	91	119194	5.00	ug/L		100
90) a-Methyl Styrene	12.587	118	67677	4.94	ug/L		96

SGS ACCUTEST FA39742

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\123016\
Data File : J0981877.D
Acq On : 30 Dec 2016 1:13 pm
Operator : melissam
Sample : ic5529-2 Inst : MSVOA6
Misc : MS35465,VJ5529,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jan 03 08:18:04 2017
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Dec 30 13:30:44 2016
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
91)	tert-Butylbenzene	12.664	91	75771	4.60	ug/L		96
92)	1,2,4-Trimethylbenzene	12.734	105	123976	4.92	ug/L		99
93)	Pentachloroethane	12.716	167	21326	4.58	ug/L		93
94)	sec-Butylbenzene	12.846	105	165731	4.82	ug/L		97
95)	4-Isopropyltoluene	12.981	119	129498	5.06	ug/L		98
96)	1,3-Dichlorobenzene	13.116	146	76715	5.35	ug/L		95
97)	1,4-Dichlorobenzene	13.198	146	79766	5.17	ug/L		94
98)	n-Butylbenzene	13.416	92	78432	5.13	ug/L		92
99)	Benzyl Chloride	13.433	126	14609	5.14	ug/L	#	57
100)	1,2-Dichlorobenzene	13.627	146	73910	5.15	ug/L		94
101)	1,2-Dibromo-3-Chloropr...	14.367	75	8094	6.12	ug/L	#	75
102)	Hexachlorobutadiene	14.908	225	32744	6.35	ug/L		83
103)	1,2,4-Trichlorobenzene	14.955	180	54327	5.77	ug/L		98
104)	Naphthalene	15.243	128	103330	5.68	ug/L		95
105)	1,2,3-Trichlorobenzene	15.407	180	48561	5.35	ug/L		97
107)	Ethanol	4.250	45	8598m	86.95	ug/L		
108)	acrolein	4.743	56	31635	19.20	ug/L		82
109)	Tert Butyl Alcohol	5.354	59	37240	44.20	ug/L		89
110)	tert Amyl alcohol	7.564	59	28274	43.35	ug/L		83
111)	Isobutyl alcohol	7.440	42	22834	65.25	ug/L	#	82
112)	1,4-Dioxane	8.656	88	5748	73.74	ug/L		81
113)	3,3-Dimethyl-1-butanol	10.413	57	149574	189.66	ug/L		98

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

7.6.16

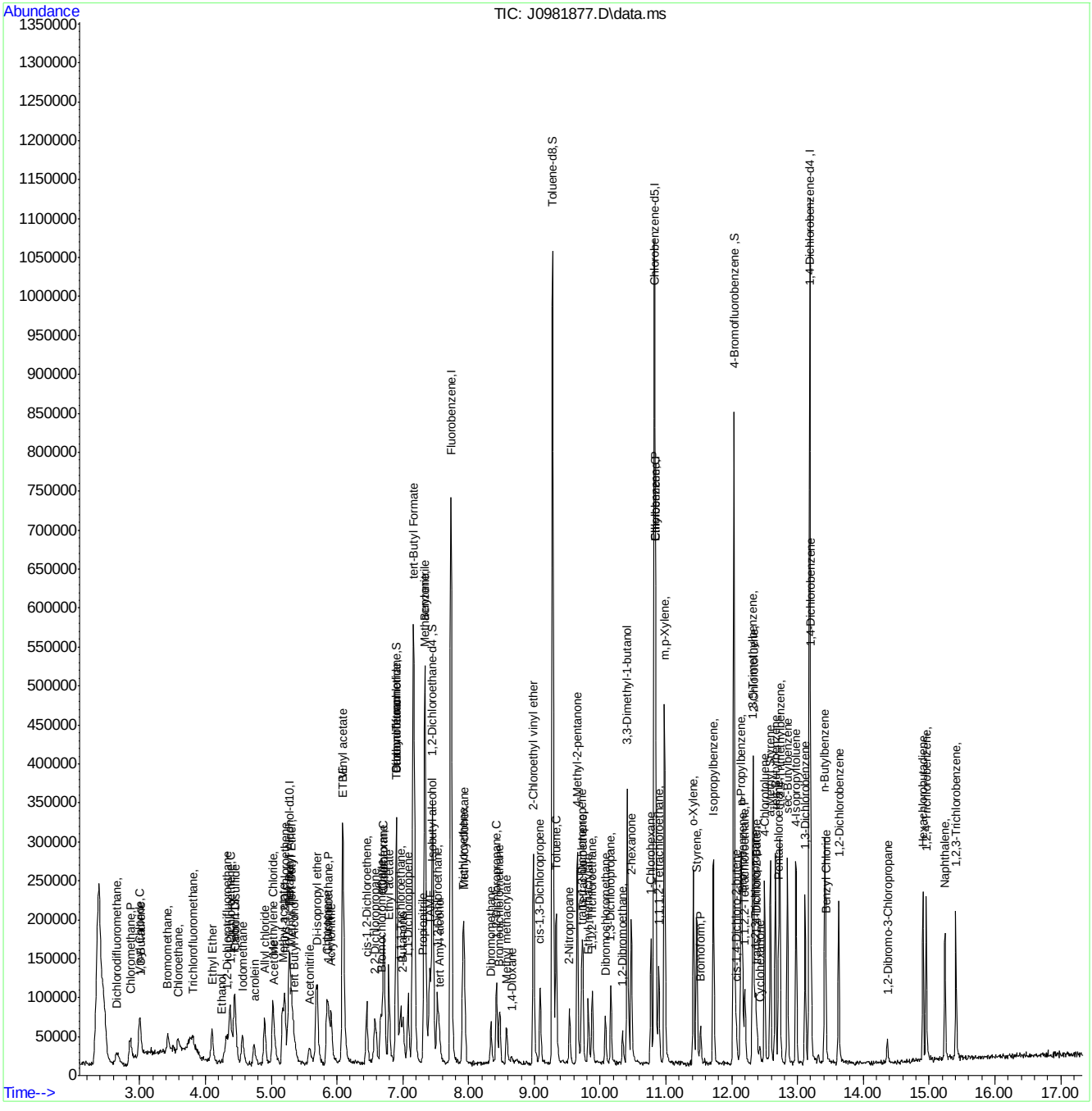
7

SGS ACCUTEST FA39742

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\123016\
Data File : J0981877.D
Acq On : 30 Dec 2016 1:13 pm
Operator : melissam
Sample : ic5529-2 Inst : MSVOA6
Misc : MS35465,VJ5529,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jan 03 08:18:04 2017
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Dec 30 13:30:44 2016
Response via : Initial Calibration



Manual Integration Approval Summary

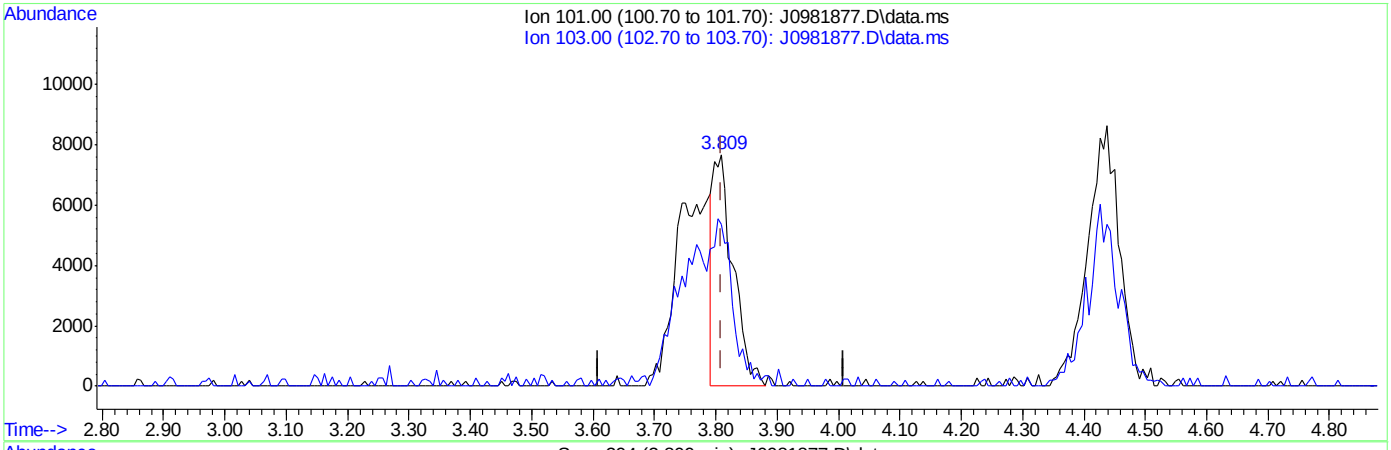
Sample Number:	VJ5529-IC5529	**Method:**	SW846 8260B
Lab FileID:	J0981877.D	**Analyst approved:**	01/03/17 10:07 Darshna Patel
Injection Time:	12/30/16 13:13	**Supervisor approved:**	01/03/17 15:48 Juan Garcia

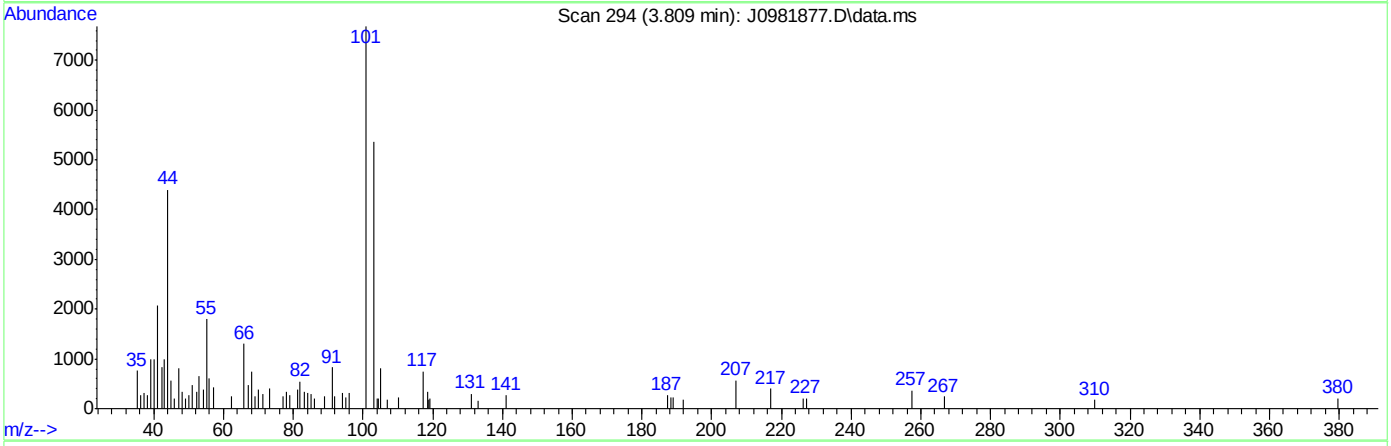
Parameter	CAS	Sig#	R.T. (min.)	Reason
Trichlorofluoromethane	75-69-4		3.81	Split peak
Ethyl Alcohol	64-17-5		4.25	Poor instrument integration
Tetrahydrofuran	109-99-9		6.90	Poor instrument integration
Carbon Tetrachloride	56-23-5		6.91	Overlapping peak
Methyl Methacrylate	80-62-6		8.57	Poor instrument integration

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\123016\
Data File : J0981877.D
Acq On : 30 Dec 2016 1:13 pm
Operator : melissam
Sample : ic5529-2 Inst : MSVOA6
Misc : MS35465,VJ5529,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 30 15:43:49 2016
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Dec 30 13:30:44 2016
Response via : Initial Calibration





TIC: J0981877.D\data.ms

(8) Trichlorofluoromethane ( )

3.809min (+0.000) 0.98ug/L

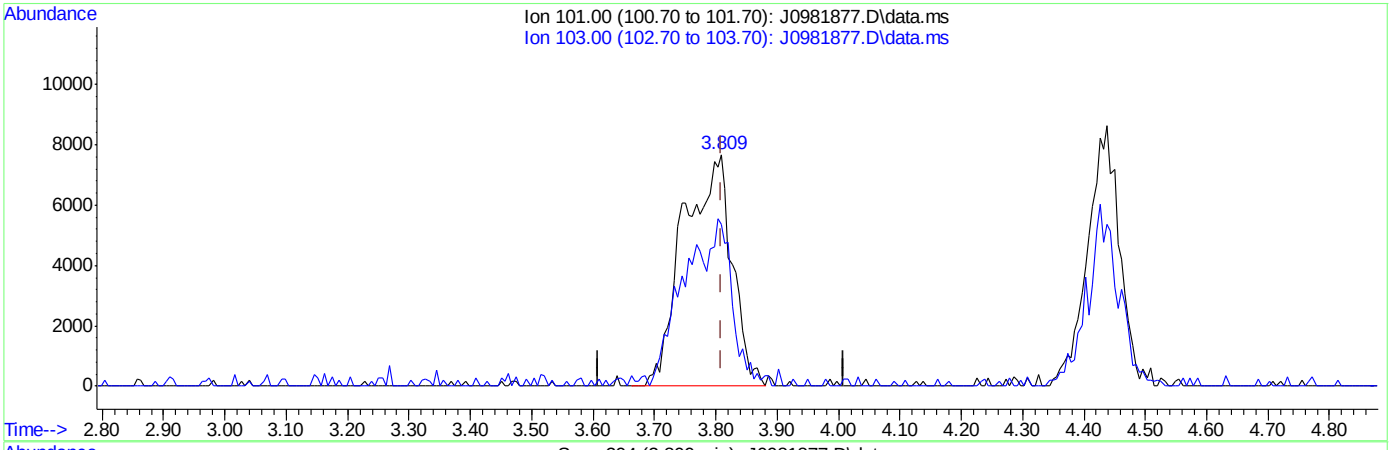
response 17150

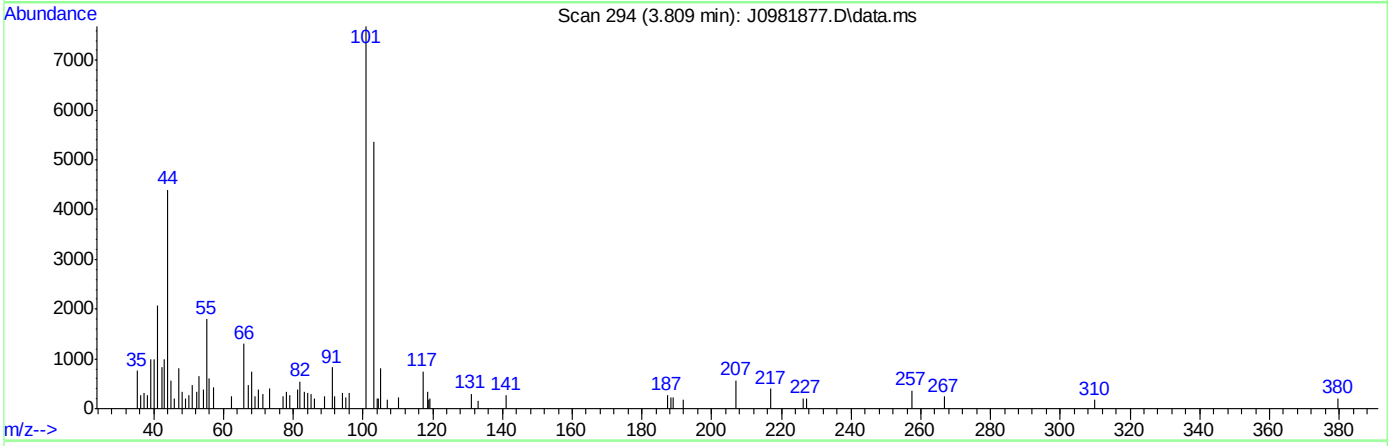
Ion	Exp%	Act%
101.00	100	100
103.00	61.00	65.50
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\123016\
Data File : J0981877.D
Acq On : 30 Dec 2016 1:13 pm
Operator : melissam
Sample : ic5529-2 Inst : MSVOA6
Misc : MS35465,VJ5529,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 30 15:43:49 2016
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Dec 30 13:30:44 2016
Response via : Initial Calibration





(8) Trichlorofluoromethane ( )

3.809min (+0.000) 2.39ug/L m

response 41959

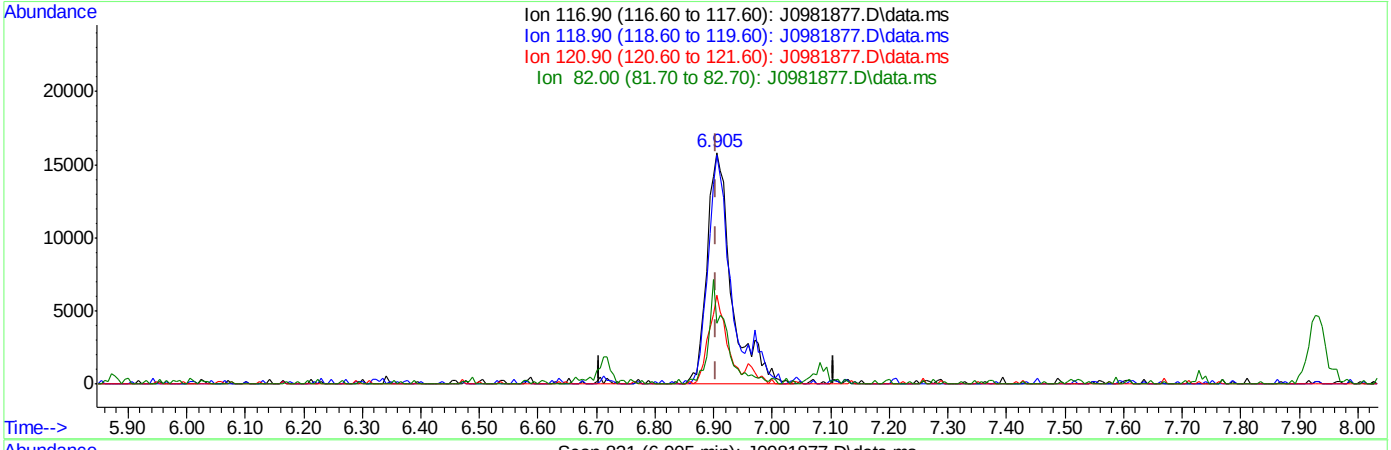
Ion	Exp%	Act%
101.00	100	100
103.00	61.00	69.82
0.00	0.00	0.00
0.00	0.00	0.00

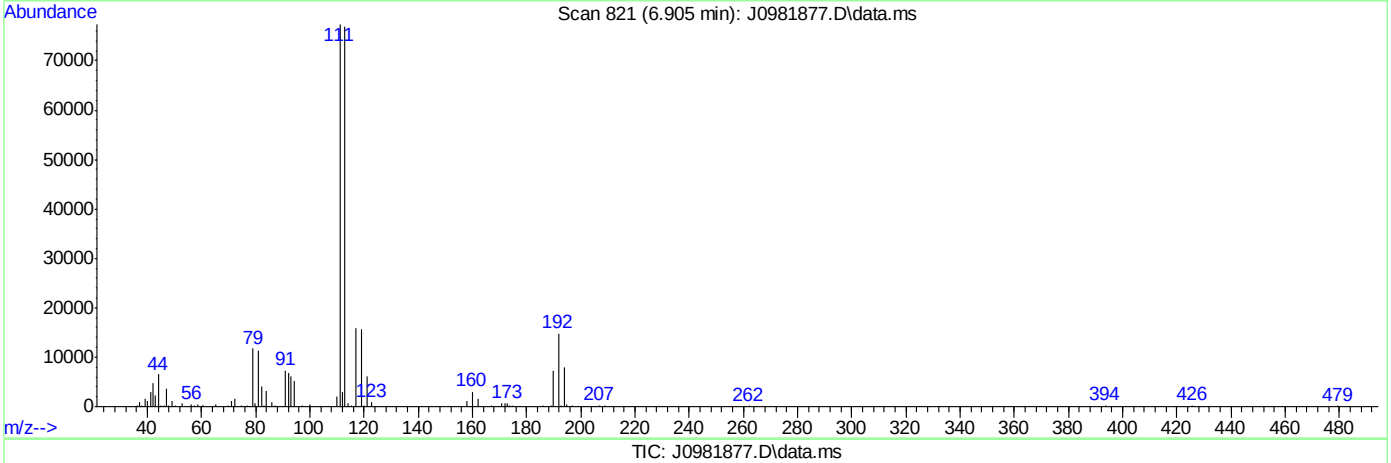
SGS ACCUTEST FA39742

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\123016\
Data File : J0981877.D
Acq On : 30 Dec 2016 1:13 pm
Operator : melissam
Sample : ic5529-2 Inst : MSVOA6
Misc : MS35465,VJ5529,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 30 15:43:49 2016
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Dec 30 13:30:44 2016
Response via : Initial Calibration





TIC: J0981877.D\data.ms

(37) Carbon Tetrachloride ( )

6.905min (+0.000) 4.27ug/L

response 47036

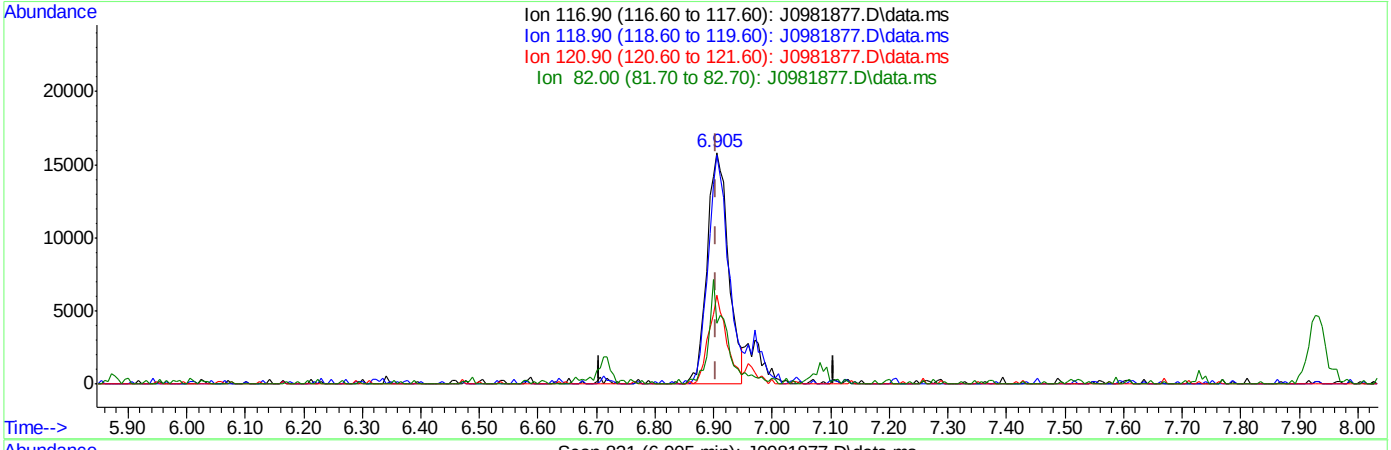
Ion	Exp%	Act%
116.90	100	100
118.90	92.50	98.68
120.90	28.60	38.25
82.00	22.10	26.50

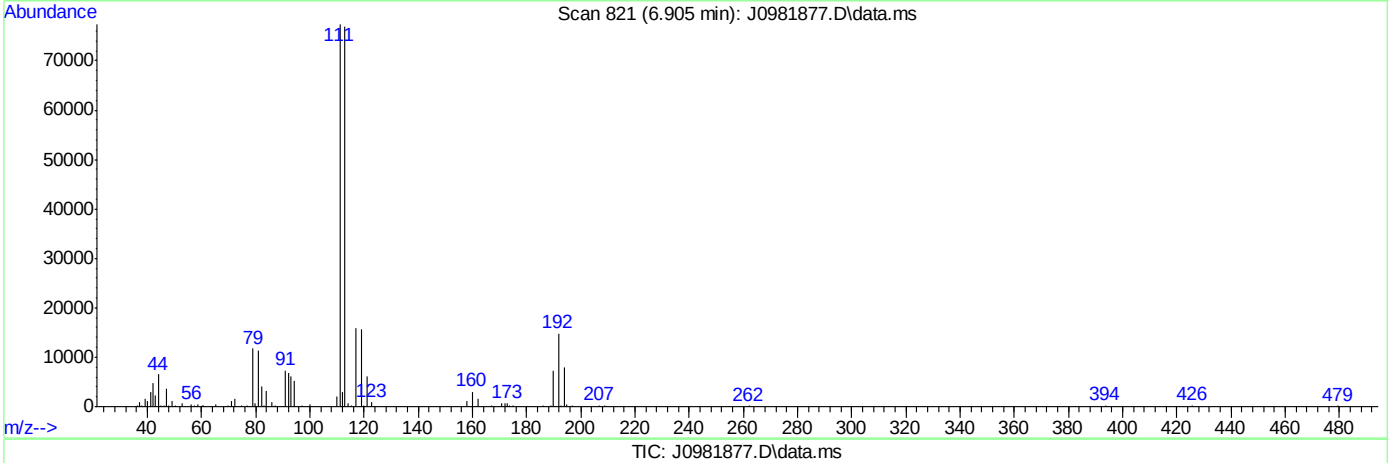
SGS ACCUTEST FA39742

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\123016\
Data File : J0981877.D
Acq On : 30 Dec 2016 1:13 pm
Operator : melissam
Sample : ic5529-2 Inst : MSVOA6
Misc : MS35465,VJ5529,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 30 15:43:49 2016
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Dec 30 13:30:44 2016
Response via : Initial Calibration





TIC: J0981877.D\data.ms

(37) Carbon Tetrachloride ( )

6.905min (+0.000) 3.67ug/L m

response 40446

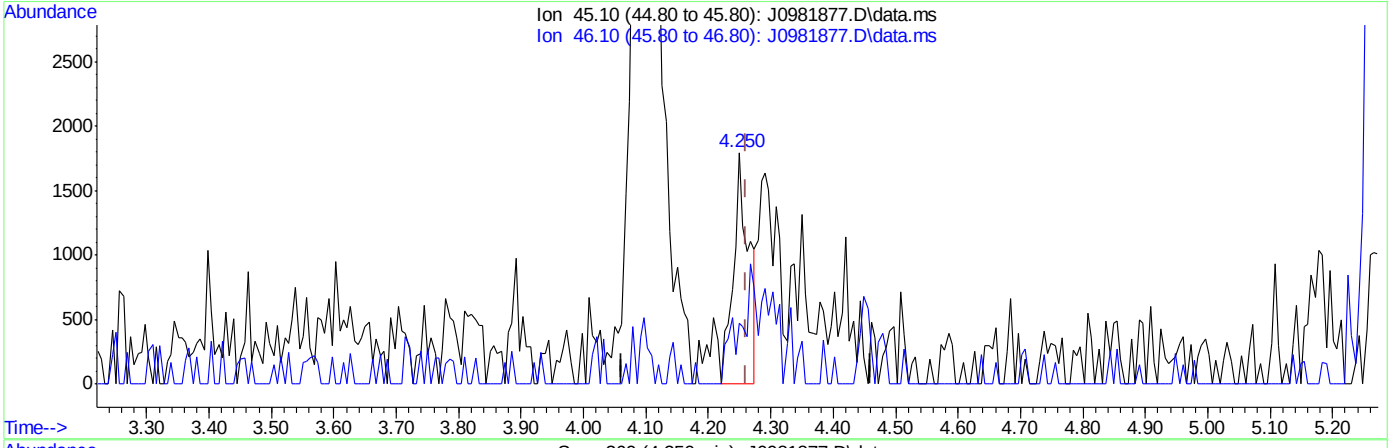
Ion	Exp%	Act%
116.90	100	100
118.90	92.50	98.68
120.90	28.60	38.25
82.00	22.10	26.50

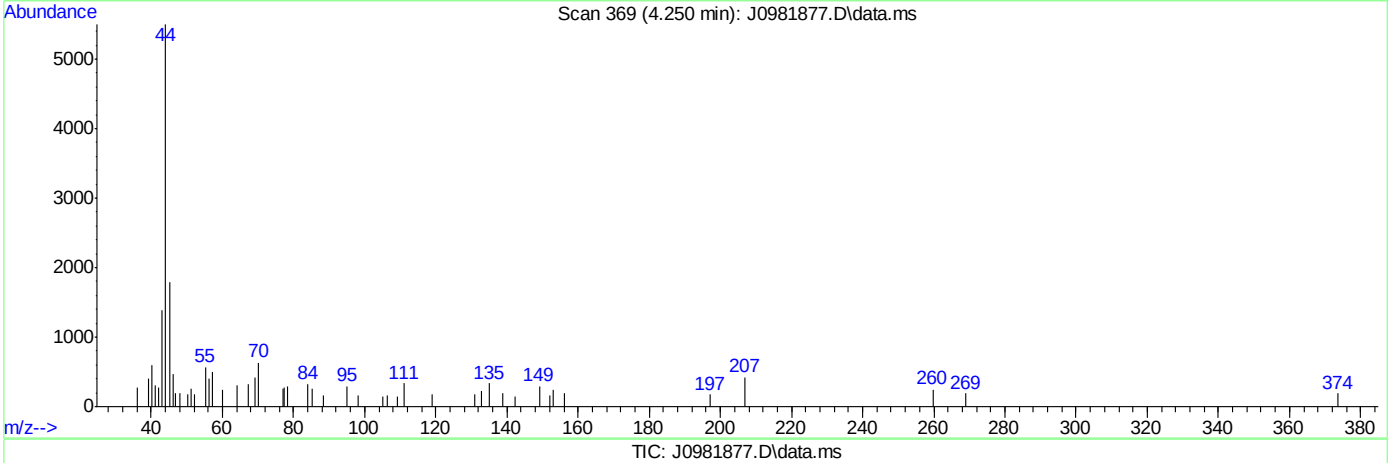
SGS ACCUTEST FA39742

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\123016\
Data File : J0981877.D
Acq On : 30 Dec 2016 1:13 pm
Operator : melissam
Sample : ic5529-2 Inst : MSVOA6
Misc : MS35465,VJ5529,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 30 15:43:49 2016
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Dec 30 13:30:44 2016
Response via : Initial Calibration





TIC: J0981877.D\data.ms

(107) Ethanol

4.250min (-0.011) 31.37ug/L

response 3125

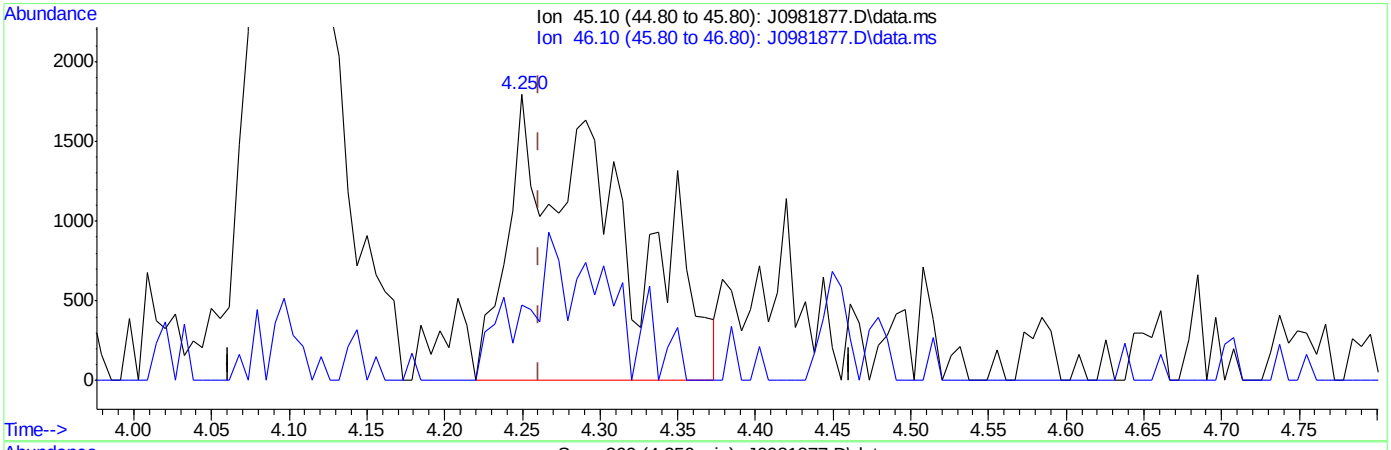
Ion	Exp%	Act%
45.10	100	100
46.10	42.10	26.21
0.00	0.00	0.00
0.00	0.00	0.00

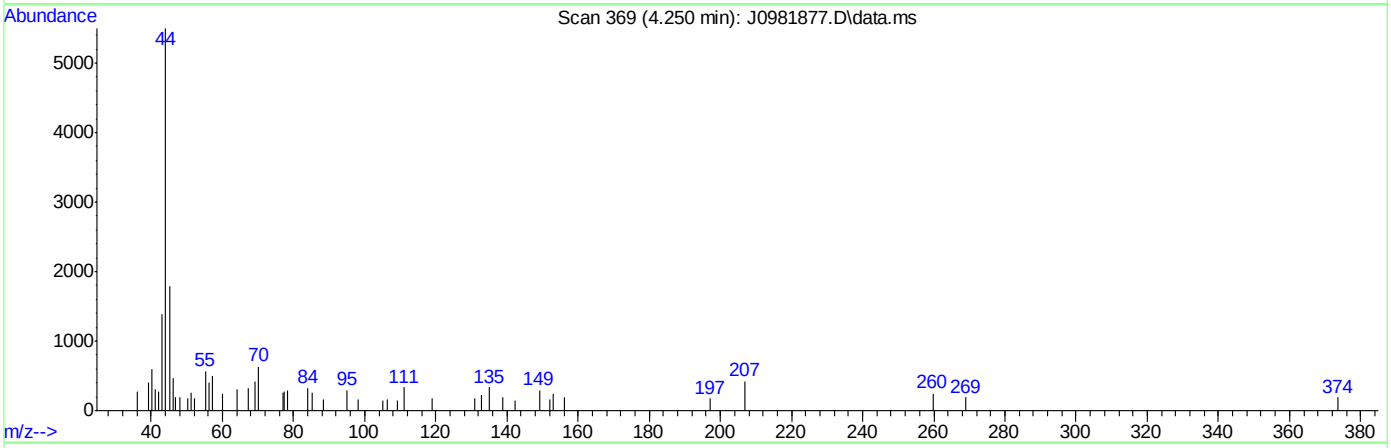
SGS ACCUTEST FA39742

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\123016\
Data File : J0981877.D
Acq On : 30 Dec 2016 1:13 pm
Operator : melissam
Sample : ic5529-2 Inst : MSVOA6
Misc : MS35465,VJ5529,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 30 15:43:49 2016
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Dec 30 13:30:44 2016
Response via : Initial Calibration





TIC: J0981877.D\data.ms

(107) Ethanol

4.250min (-0.011) 86.95ug/L m

response 8598

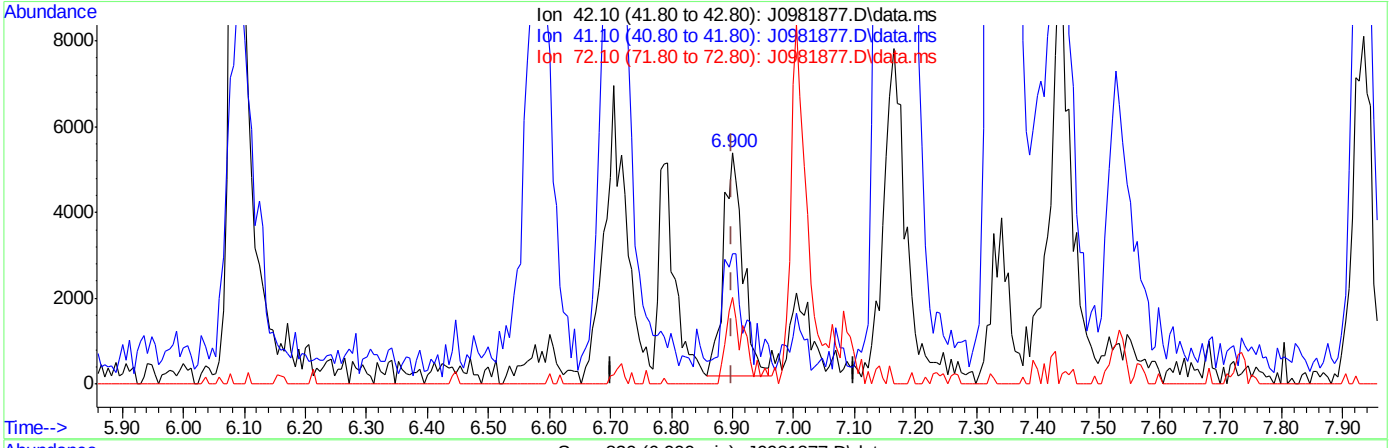
Ion	Exp%	Act%
45.10	100	100
46.10	42.10	26.21
0.00	0.00	0.00
0.00	0.00	0.00

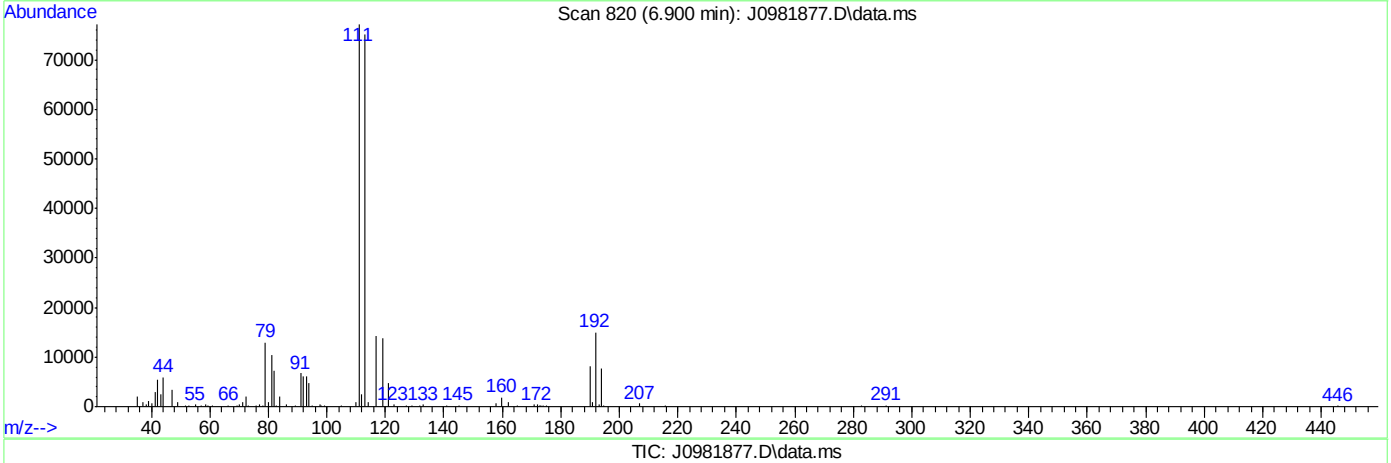
SGS ACCUTEST FA39742

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\123016\
Data File : J0981877.D
Acq On : 30 Dec 2016 1:13 pm
Operator : melissam
Sample : ic5529-2 Inst : MSVOA6
Misc : MS35465,VJ5529,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 30 15:47:36 2016
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Dec 30 13:30:44 2016
Response via : Initial Calibration





TIC: J0981877.D\data.ms

(35) Tetrahydrofuran

6.900min (-0.000) 5.29ug/L

response 11455

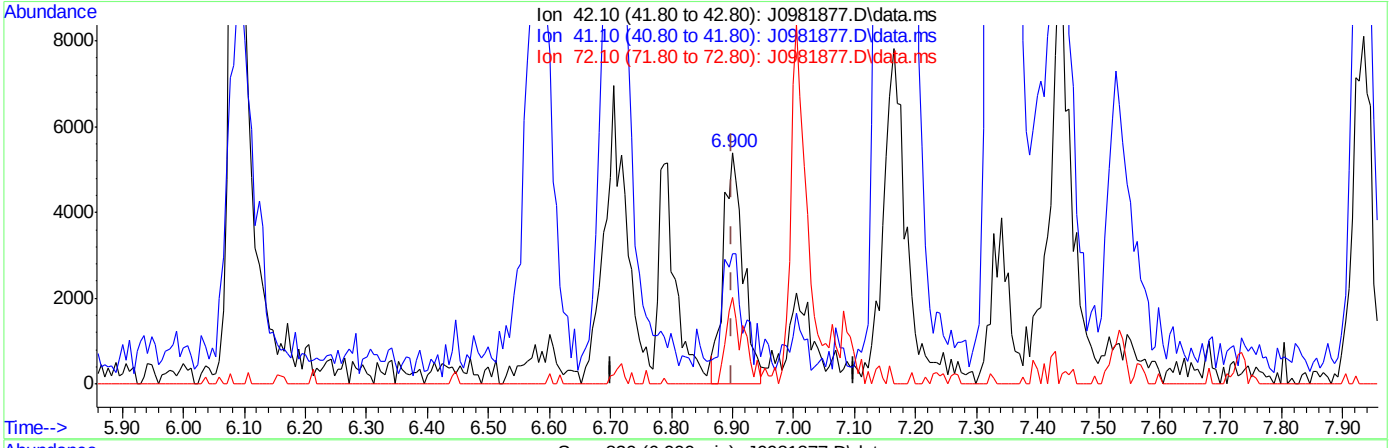
Ion	Exp%	Act%
42.10	100	100
41.10	51.70	48.60
72.10	37.20	38.84
0.00	0.00	0.00

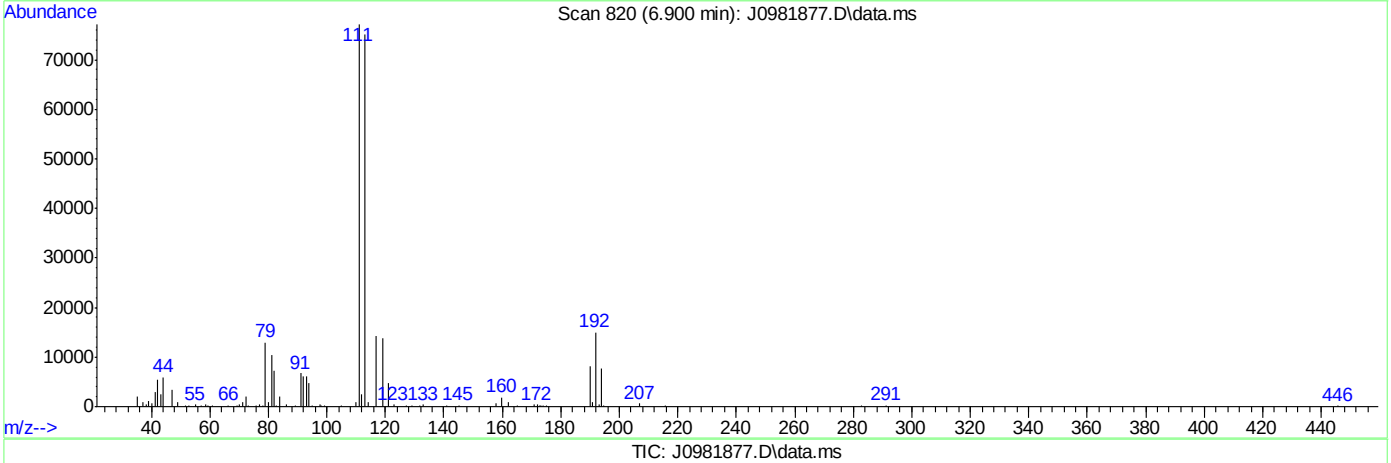
SGS ACCUTEST FA39742

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\123016\
Data File : J0981877.D
Acq On : 30 Dec 2016 1:13 pm
Operator : melissam
Sample : ic5529-2 Inst : MSVOA6
Misc : MS35465,VJ5529,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 30 15:47:36 2016
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Dec 30 13:30:44 2016
Response via : Initial Calibration





TIC: J0981877.D\data.ms

(35) Tetrahydrofuran

6.900min (-0.000) 5.62ug/L m

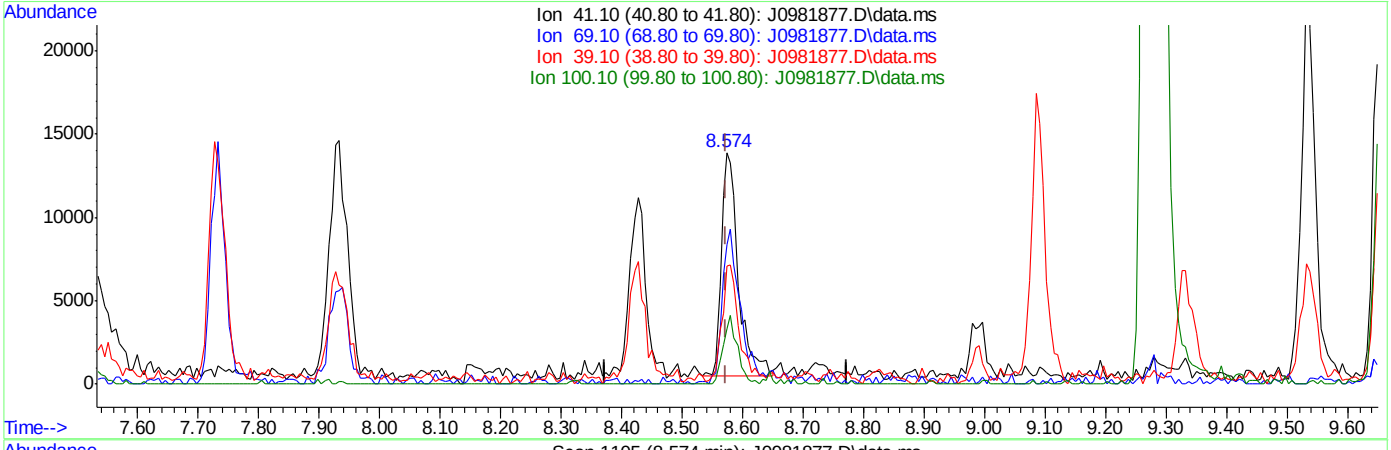
response 12167

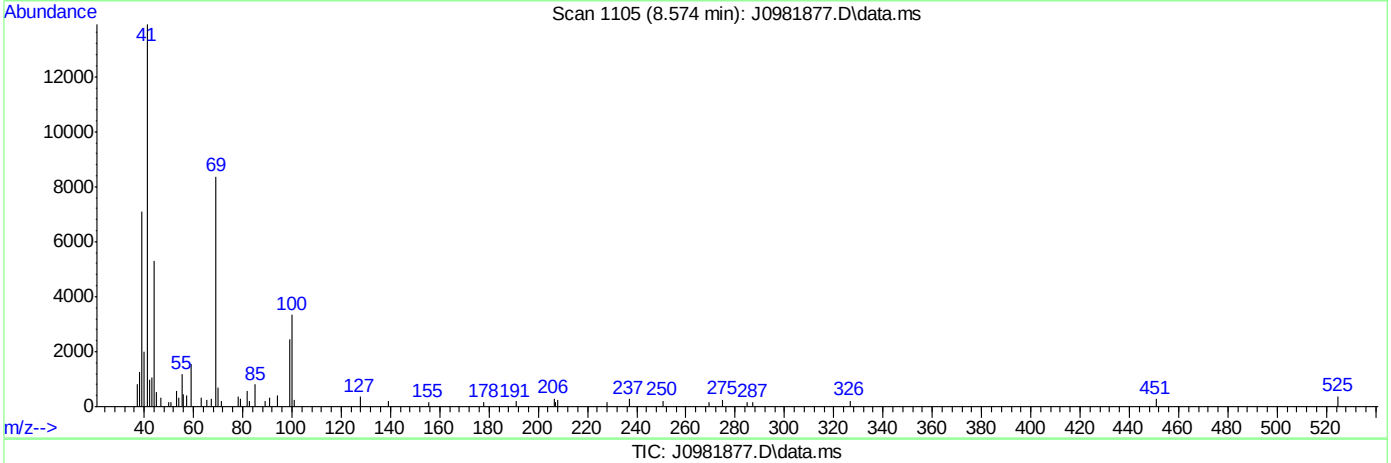
Ion	Exp%	Act%
42.10	100	100
41.10	51.70	56.47
72.10	37.20	37.40
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\123016\
Data File : J0981877.D
Acq On : 30 Dec 2016 1:13 pm
Operator : melissam
Sample : ic5529-2 Inst : MSVOA6
Misc : MS35465,VJ5529,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 30 15:47:36 2016
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Dec 30 13:30:44 2016
Response via : Initial Calibration





(53) Methyl methacrylate

8.574min (+0.000) 4.19ug/L

response 26117

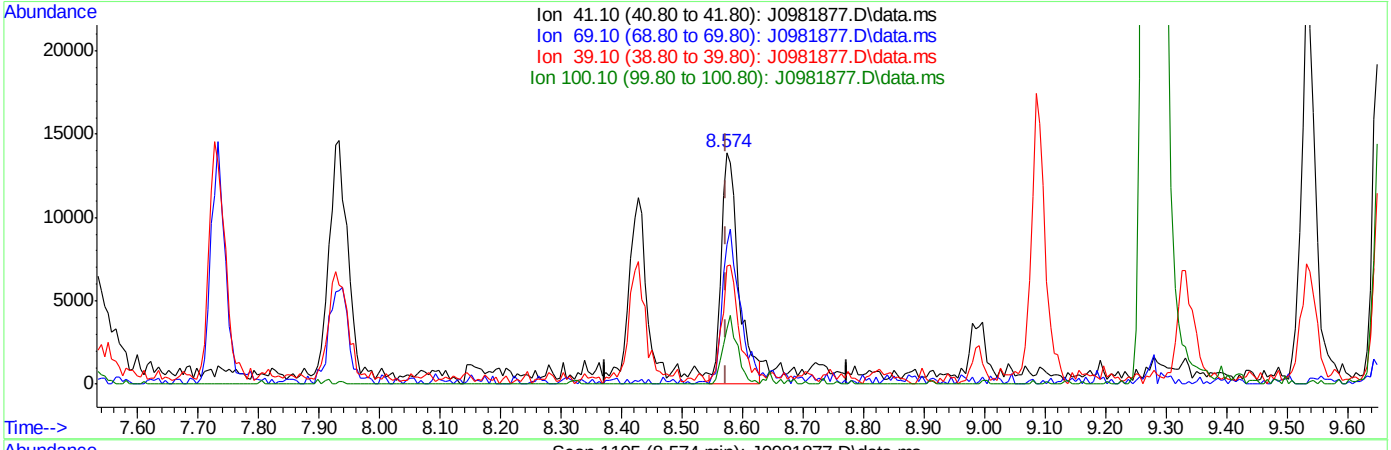
Ion	Exp%	Act%
41.10	100	100
69.10	57.20	61.07
39.10	51.30	49.27
100.10	22.30	24.86

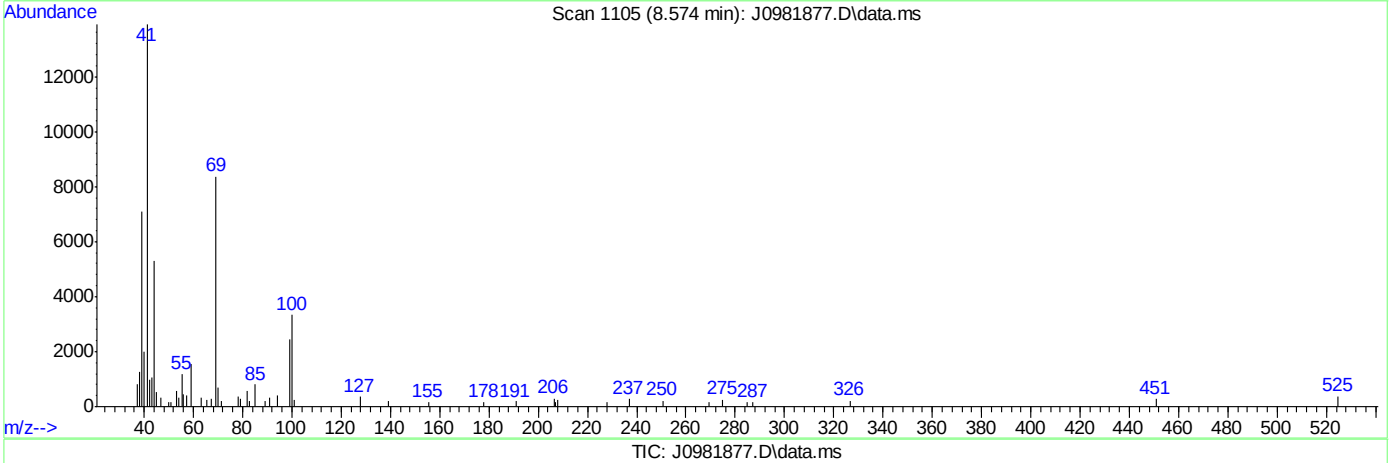
SGS ACCUTEST FA39742

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\123016\
Data File : J0981877.D
Acq On : 30 Dec 2016 1:13 pm
Operator : melissam
Sample : ic5529-2 Inst : MSVOA6
Misc : MS35465,VJ5529,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 30 15:47:36 2016
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Dec 30 13:30:44 2016
Response via : Initial Calibration





(53) Methyl methacrylate

8.574min (+0.000) 4.41ug/L m

response 27492

Ion	Exp%	Act%
41.10	100	100
69.10	57.20	60.23
39.10	51.30	50.93
100.10	22.30	24.01

SGS ACCUTEST FA39742

Manual Integrations APPROVED (compounds with "m" flag)
Juan Garcia
01/03/17 15:48

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\123016\
Data File : J0981878.D
Acq On : 30 Dec 2016 1:37 pm
Operator : melissam
Sample : ic5529-3 Inst : MSVOA6
Misc : MS35465,VJ5529,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Dec 30 15:48:02 2016
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Dec 30 13:30:44 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.728	96	658942	50.00	ug/L	0.00
56) Chlorobenzene-d5	10.824	117	462577	50.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	13.181	152	255817	50.00	ug/L	0.00
106) Tert Butyl Alcohol-d10	5.266	65	80659	250.00	ug/L	-0.02
System Monitoring Compounds						
36) Dibromofluoromethane	6.900	113	156618	41.51	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 83.02%			
46) 1,2-Dichloroethane-d4	7.452	65	206938	39.28	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 78.56%#			
57) Toluene-d8	9.279	98	626462	54.63	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 109.26%			
79) 4-Bromofluorobenzene	12.035	95	245710	58.01	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 116.02%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.663	85	76162	9.80	ug/L	98
3) Chloromethane	2.863	50	113335	8.53	ug/L	93
4) Vinyl Chloride	3.010	62	63847	5.54	ug/L	89
5) 1,3-Butadiene	3.004	54	40330	4.32	ug/L	91
6) Bromomethane	3.433	94	38888	5.67	ug/L	86
7) Chloroethane	3.592	64	31106	5.75	ug/L	85
8) Trichlorofluoromethane	3.821	101	85856m	4.86	ug/L	
9) Ethyl Ether	4.097	59	60638	8.65	ug/L	95
10) 1,2-Dichlorotrifluoroe...	4.332	67	70247	7.72	ug/L	96
11) 1,1-Dichloroethene	4.379	61	99049	8.45	ug/L	90
12) Freon 113	4.432	101	60188	7.24	ug/L	89
13) Carbon Disulfide	4.455	76	212395	8.69	ug/L	98
14) Iodomethane	4.561	142	103032	8.13	ug/L	95
15) Allyl chloride	4.896	41	112143	7.99	ug/L	88
16) Methylene Chloride	5.019	49	103844	7.30	ug/L	98
17) Acetone	5.049	58	27001	42.32	ug/L	97
18) Methyl acetate	5.166	74	43247	43.30	ug/L #	91
19) trans-1,2-Dichloroethene	5.207	61	96374	9.16	ug/L	93
20) Hexane	5.272	56	65275	7.42	ug/L	91
21) Methyl Tert Butyl Ether	5.301	73	187436	9.61	ug/L	95
22) Acetonitrile	5.572	40	42538	77.20	ug/L	89
23) Di-isopropyl ether	5.683	45	255142	8.49	ug/L	96
24) Chloroprene	5.842	53	102575	7.67	ug/L	88
25) 1,1-Dichloroethane	5.871	63	114127	7.47	ug/L	99
26) Acrylonitrile	5.901	53	118388	39.25	ug/L	92
27) ETBE	6.089	59	242188	9.05	ug/L	95
28) Vinyl acetate	6.083	43	777012	38.75	ug/L	91
29) cis-1,2-Dichloroethene	6.447	96	71485	10.44	ug/L	83
30) 2,2-Dichloropropane	6.576	77	98013	8.97	ug/L	96
31) Bromochloromethane	6.665	128	32478	8.59	ug/L	95
32) Cyclohexane	6.706	56	133421	8.81	ug/L	93
33) Chloroform	6.712	83	119859	8.43	ug/L	93
34) Ethyl acetate	6.788	43	294156	36.95	ug/L	100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\123016\
Data File : J0981878.D
Acq On : 30 Dec 2016 1:37 pm
Operator : melissam
Sample : ic5529-3 Inst : MSVOA6
Misc : MS35465,VJ5529,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Dec 30 15:48:02 2016
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Dec 30 13:30:44 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
35) Tetrahydrofuran	6.894	42	19866	9.09	ug/L		89
37) Carbon Tetrachloride	6.900	117	82912	7.45	ug/L		91
38) 1,1,1-Trichloroethane	6.964	97	102104	8.51	ug/L		94
39) 2-Butanone	7.005	43	132798	42.66	ug/L		100
40) 1,1-Dichloropropene	7.082	75	81890	8.93	ug/L		91
41) tert-Butyl Formate	7.158	59	673605	106.25	ug/L	#	77
42) Propionitrile	7.311	54	88798	82.29	ug/L		87
43) Methacrylonitrile	7.334	41	403337	78.82	ug/L		99
44) Benzene	7.334	78	221037	9.29	ug/L		87
45) TAME	7.405	73	196492	9.49	ug/L		90
47) 1,2-Dichloroethane	7.522	62	88374	7.66	ug/L		98
48) Trichloroethene	7.916	95	64154	9.08	ug/L		95
49) Methylcyclohexane	7.928	83	118336	8.83	ug/L		97
50) Dibromomethane	8.339	93	39528	9.06	ug/L		97
51) 1,2-Dichloropropane	8.421	63	66610	9.15	ug/L		89
52) Bromodichloromethane	8.474	83	82411	8.56	ug/L		92
53) Methyl methacrylate	8.574	41	57959	9.18	ug/L		92
54) 2-Chloroethyl vinyl ether	8.985	63	198130	41.21	ug/L		98
55) cis-1,3-Dichloropropene	9.091	75	103129	8.54	ug/L		89
58) Toluene	9.332	91	243196	10.84	ug/L		98
59) 2-Nitropropane	9.538	41	76279	42.23	ug/L		93
60) 4-Methyl-2-pentanone	9.649	43	313590	43.97	ug/L		94
61) trans-1,3-Dichloropropene	9.714	75	87408	9.76	ug/L		93
62) Tetrachloroethene	9.737	166	66968	9.52	ug/L		92
63) Ethyl methacrylate	9.820	69	79380	11.15	ug/L		92
64) 1,1,2-Trichloroethane	9.878	83	42871	8.99	ug/L		98
65) Dibromochloromethane	10.078	129	57539	9.80	ug/L		98
66) 1,3-Dichloropropane	10.160	76	94350	9.64	ug/L		92
67) 1,2-Dibromoethane	10.343	107	55656	10.38	ug/L		88
68) 2-hexanone	10.472	43	216960	42.49	ug/L		93
69) 1-Chlorohexane	10.777	91	90001	10.71	ug/L		89
70) Ethylbenzene	10.842	91	269245	10.44	ug/L		96
71) Chlorobenzene	10.842	112	168232	9.78	ug/L		93
72) 1,1,1,2-Tetrachloroethane	10.889	131	57187	8.42	ug/L		95
73) m,p-Xylene	10.977	91	452440	19.45	ug/L		98
74) o-Xylene	11.418	91	252067	10.56	ug/L		100
75) Styrene	11.465	104	166452	9.97	ug/L		97
76) Bromoform	11.524	173	37965	9.90	ug/L		96
77) Isopropylbenzene	11.723	105	295962	10.14	ug/L		97
80) cis-1,4-Dichloro-2-butene	12.070	53	20101	9.18	ug/L	#	79
81) n-Propylbenzene	12.141	91	355302	9.46	ug/L		99
82) Bromobenzene	12.164	156	67092	9.74	ug/L		93
83) 1,1,2,2-Tetrachloroethane	12.199	83	71560	9.98	ug/L		92
84) 1,3,5-Trimethylbenzene	12.323	105	239191	9.81	ug/L		97
85) 2-Chlorotoluene	12.334	91	234190	9.15	ug/L		96
86) trans-1,4-Dichloro-2-B...	12.381	53	21633	8.98	ug/L	#	73
87) 1,2,3-Trichloropropane	12.358	110	18583	8.38	ug/L		89
88) Cyclohexanone	12.428	55	16010	58.43	ug/L		92
89) 4-Chlorotoluene	12.499	91	229528	9.65	ug/L		99
90) a-Methyl Styrene	12.587	118	136298	9.93	ug/L		96

SGS ACCUTEST FA39742

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\123016\
Data File : J0981878.D
Acq On : 30 Dec 2016 1:37 pm
Operator : melissam
Sample : ic5529-3 Inst : MSVOA6
Misc : MS35465,VJ5529,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Dec 30 15:48:02 2016
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Dec 30 13:30:44 2016
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
91)	tert-Butylbenzene	12.663	91	148118	9.01	ug/L		97
92)	1,2,4-Trimethylbenzene	12.734	105	234225	9.31	ug/L		99
93)	Pentachloroethane	12.716	167	43300	9.20	ug/L		90
94)	sec-Butylbenzene	12.846	105	313741	9.14	ug/L		100
95)	4-Isopropyltoluene	12.981	119	246918	9.63	ug/L		99
96)	1,3-Dichlorobenzene	13.116	146	141483	9.81	ug/L		98
97)	1,4-Dichlorobenzene	13.198	146	150885	9.73	ug/L		95
98)	n-Butylbenzene	13.416	92	147873	9.66	ug/L		94
99)	Benzyl Chloride	13.427	126	30161	10.57	ug/L	#	87
100)	1,2-Dichlorobenzene	13.627	146	143155	9.92	ug/L		96
101)	1,2-Dibromo-3-Chloropr...	14.367	75	13059	9.76	ug/L		89
102)	Hexachlorobutadiene	14.908	225	61435	11.58	ug/L		88
103)	1,2,4-Trichlorobenzene	14.955	180	102486	10.72	ug/L		96
104)	Naphthalene	15.237	128	195377	10.63	ug/L		99
105)	1,2,3-Trichlorobenzene	15.407	180	94744	10.29	ug/L		98
107)	Ethanol	4.261	45	16023m	172.95	ug/L		
108)	acrolein	4.731	56	61291	39.51	ug/L		81
109)	Tert Butyl Alcohol	5.354	59	70713	89.17	ug/L		93
110)	tert Amyl alcohol	7.546	59	52023	84.60	ug/L		85
111)	Isobutyl alcohol	7.434	42	42610	129.78	ug/L	#	83
112)	1,4-Dioxane	8.645	88	11432	156.07	ug/L		81
113)	3,3-Dimethyl-1-butanol	10.413	57	277836	375.55	ug/L		94

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

7.6.17

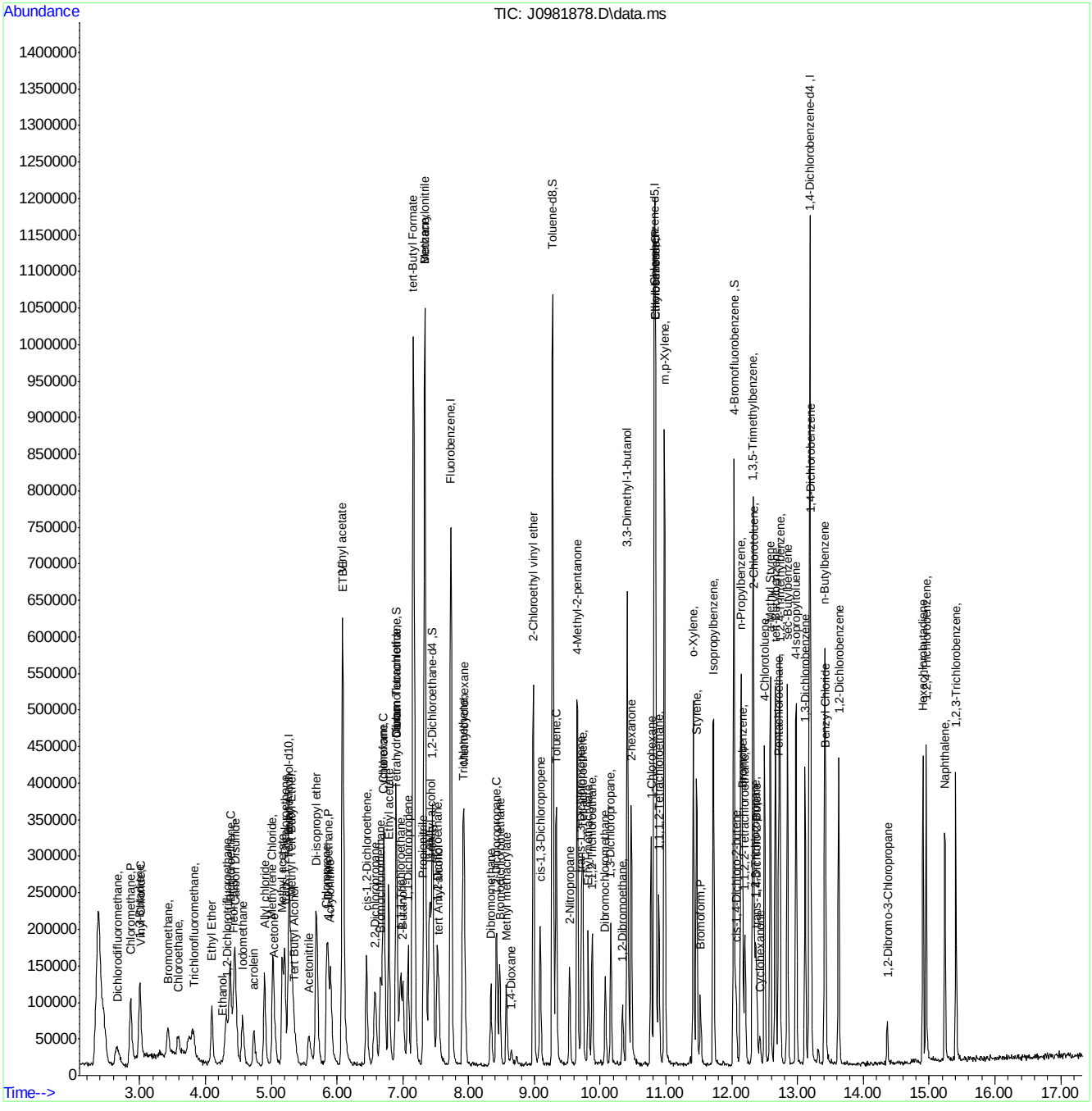
7

SGS ACCUTEST FA39742

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\123016\
Data File : J0981878.D
Acq On : 30 Dec 2016 1:37 pm
Operator : melissam
Sample : ic5529-3 Inst : MSVOA6
Misc : MS35465,VJ5529,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Dec 30 15:48:02 2016
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Dec 30 13:30:44 2016
Response via : Initial Calibration



MSJ123016.M Tue Jan 03 10:01:31 2017 Page: 4

Manual Integration Approval Summary

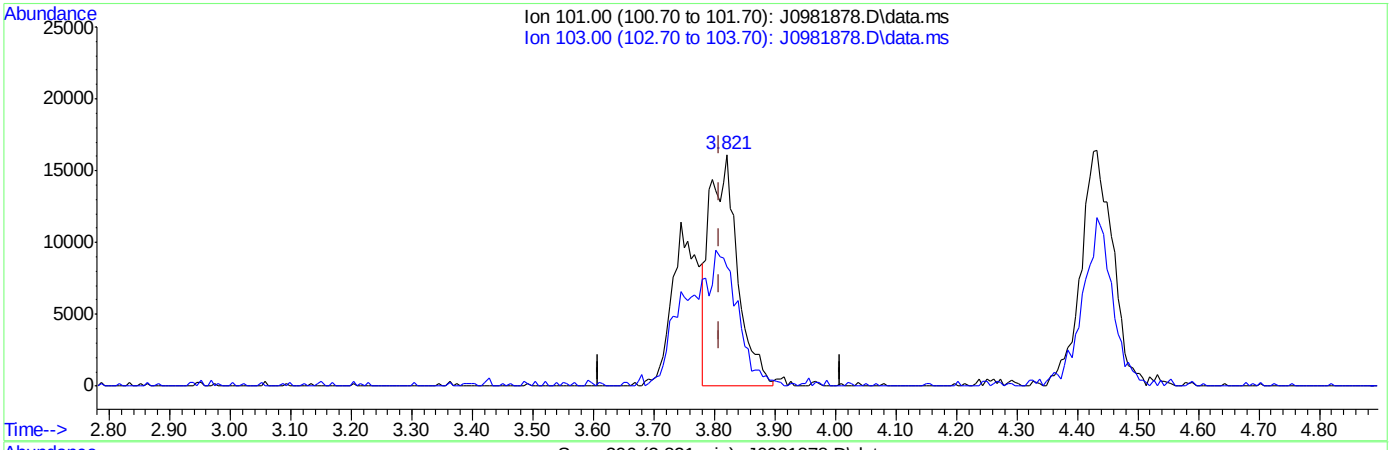
Sample Number:	VJ5529-IC5529	**Method:**	SW846 8260B
Lab FileID:	J0981878.D	**Analyst approved:**	01/03/17 10:07 Darshna Patel
Injection Time:	12/30/16 13:37	**Supervisor approved:**	01/03/17 15:48 Juan Garcia

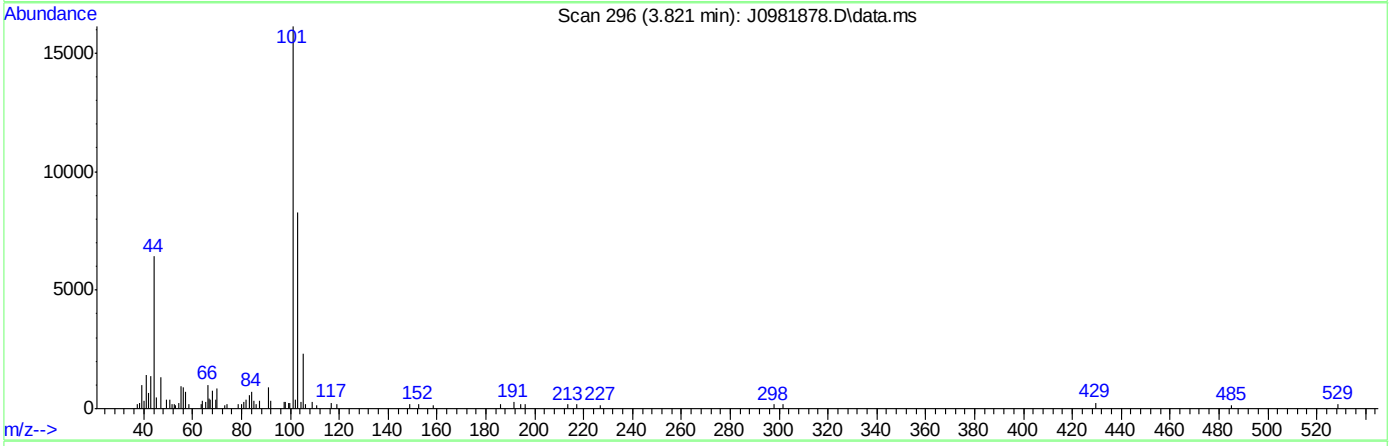
Parameter	CAS	Sig#	R.T. (min.)	Reason
Trichlorofluoromethane	75-69-4		3.82	Split peak
Ethyl Alcohol	64-17-5		4.26	Poor instrument integration

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\123016\
Data File : J0981878.D
Acq On : 30 Dec 2016 1:37 pm
Operator : melissam
Sample : ic5529-3 Inst : MSVOA6
Misc : MS35465,VJ5529,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Dec 30 15:43:52 2016
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Dec 30 13:30:44 2016
Response via : Initial Calibration





TIC: J0981878.D\data.ms

(8) Trichlorofluoromethane ( )

3.821min (+0.012) 2.92ug/L

response 51818

Ion	Exp%	Act%
101.00	100	100
103.00	61.00	49.70
0.00	0.00	0.00
0.00	0.00	0.00

SGS ACCUTEST FA39742

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\123016\
Data File : J0981878.D
Acq On : 30 Dec 2016 1:37 pm
Operator : melissam
Sample : ic5529-3 Inst : MSVOA6
Misc : MS35465,VJ5529,,,,,
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Quant Time: Dec 30 15:43:52 2016
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Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Dec 30 13:30:44 2016
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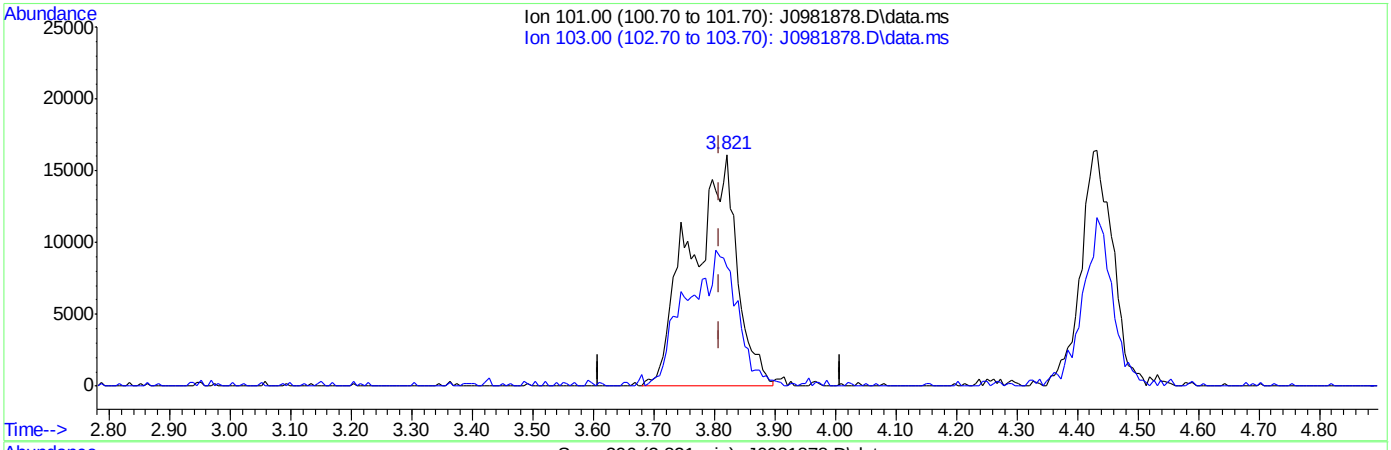
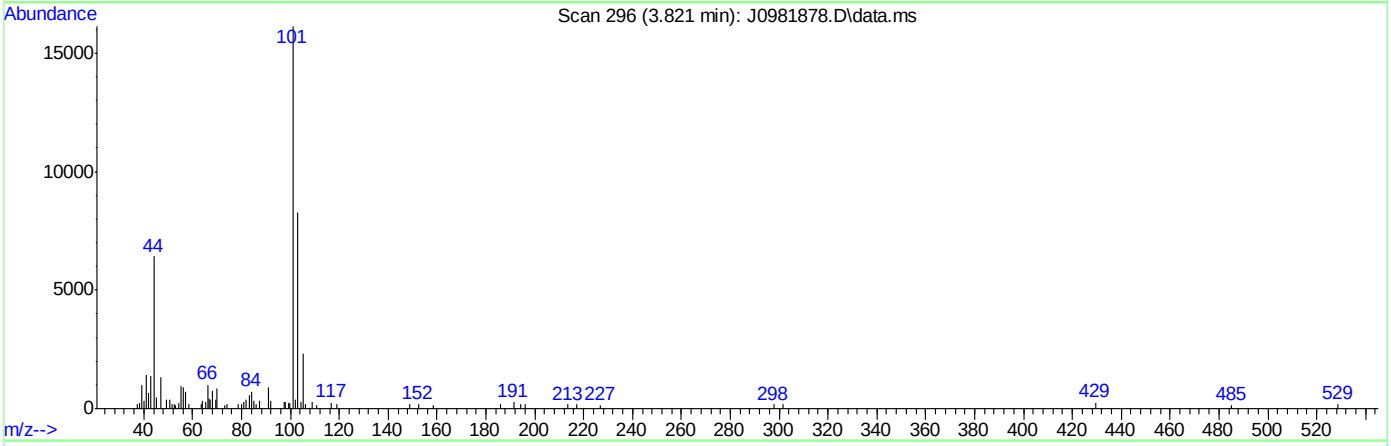




(8) Trichlorofluoromethane ( )

3.821min (+0.012) 4.86ug/L m

response 85856

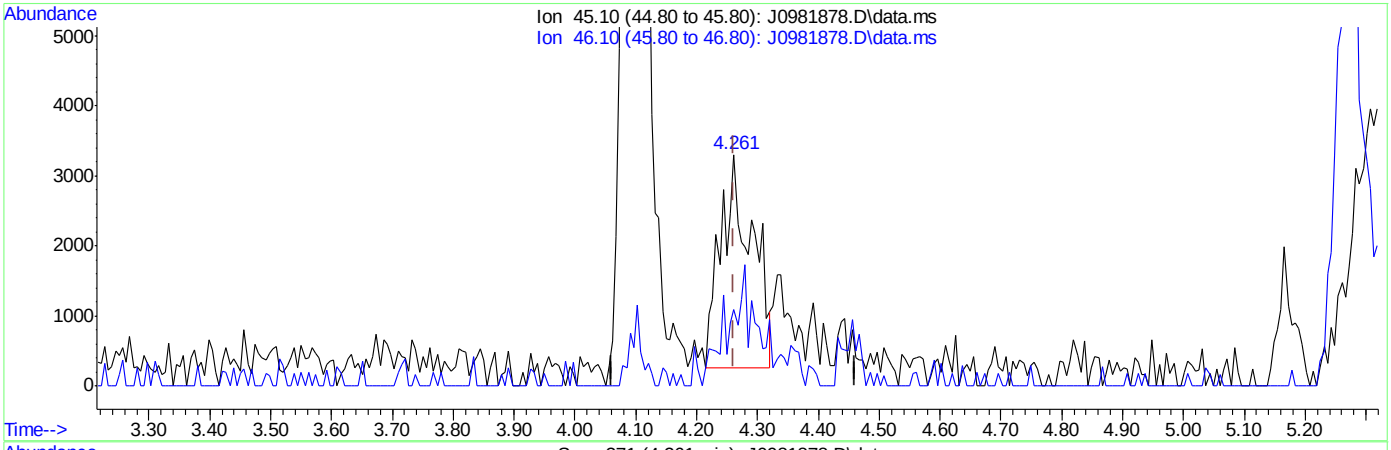
Ion	Exp%	Act%
101.00	100	100
103.00	61.00	51.41
0.00	0.00	0.00
0.00	0.00	0.00

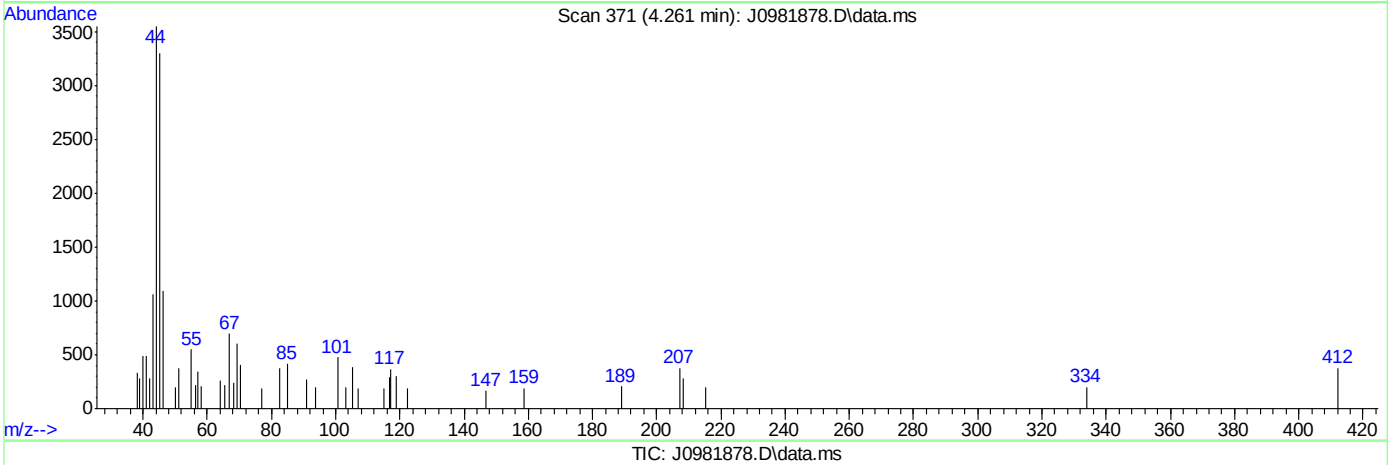
SGS ACCUTEST FA39742

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\123016\
Data File : J0981878.D
Acq On : 30 Dec 2016 1:37 pm
Operator : melissam
Sample : ic5529-3 Inst : MSVOA6
Misc : MS35465,VJ5529,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Dec 30 15:43:52 2016
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Dec 30 13:30:44 2016
Response via : Initial Calibration





TIC: J0981878.D\data.ms

(107) Ethanol

4.261min (+0.000) 115.67ug/L

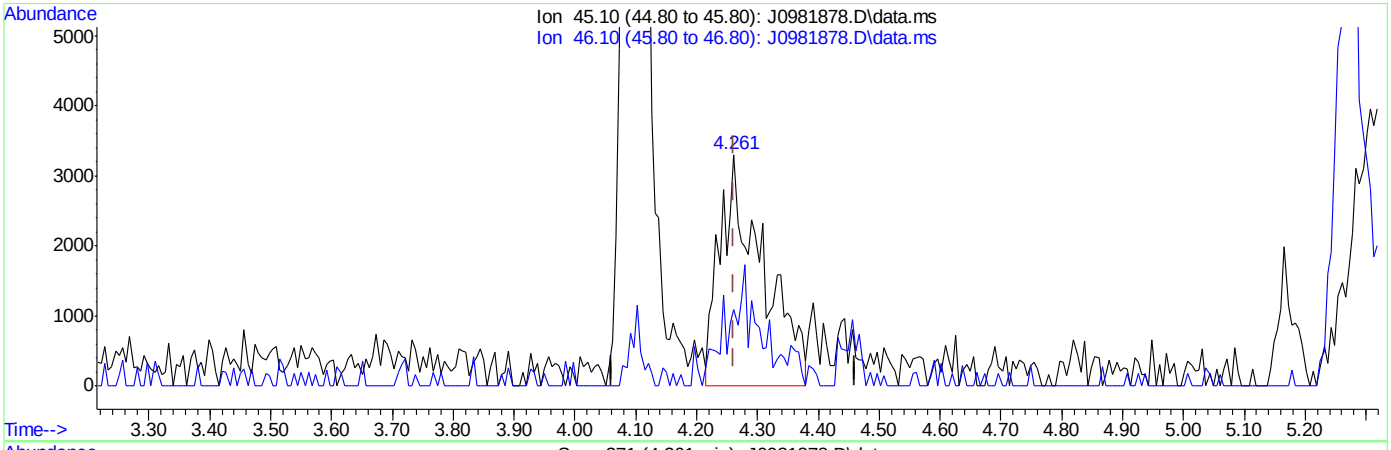
response 10801

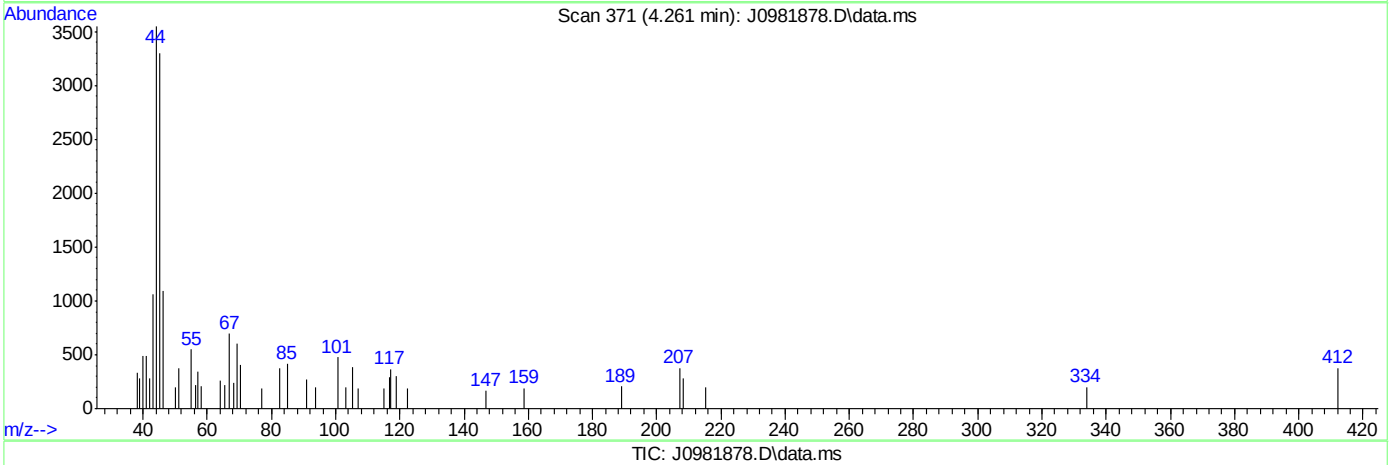
Ion	Exp%	Act%
45.10	100	100
46.10	42.10	27.32
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\123016\
Data File : J0981878.D
Acq On : 30 Dec 2016 1:37 pm
Operator : melissam
Sample : ic5529-3 Inst : MSVOA6
Misc : MS35465,VJ5529,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Dec 30 15:43:52 2016
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Dec 30 13:30:44 2016
Response via : Initial Calibration





(107) Ethanol

4.261min (+0.000) 172.95ug/L m

response 16023

Ion	Exp%	Act%
45.10	100	100
46.10	42.10	33.21
0.00	0.00	0.00
0.00	0.00	0.00

SGS ACCUTEST FA39742

Manual Integrations APPROVED (compounds with "m" flag)
Juan Garcia
01/03/17 15:48

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\123016\
Data File : J0981879.D
Acq On : 30 Dec 2016 2:00 pm
Operator : melissam
Sample : ic5529-4 Inst : MSVOA6
Misc : MS35465,VJ5529,,,,,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Dec 30 15:48:26 2016
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Dec 30 13:30:44 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.734	96	645793	50.00	ug/L	0.00
56) Chlorobenzene-d5	10.824	117	469637	50.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	13.186	152	254656	50.00	ug/L	0.00
106) Tert Butyl Alcohol-d10	5.272	65	84908	250.00	ug/L	-0.02
System Monitoring Compounds						
36) Dibromofluoromethane	6.899	113	154909	41.89	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 83.78%			
46) 1,2-Dichloroethane-d4	7.458	65	208403	40.37	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 80.74%			
57) Toluene-d8	9.279	98	615408	52.86	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 105.72%			
79) 4-Bromofluorobenzene	12.035	95	255562	60.61	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 121.22%#			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.663	85	157914	20.74	ug/L	97
3) Chloromethane	2.875	50	236994	18.54	ug/L	90
4) Vinyl Chloride	3.016	62	148613	13.41	ug/L	93
5) 1,3-Butadiene	3.010	54	85186	9.41	ug/L	89
6) Bromomethane	3.445	94	80964	12.19	ug/L	91
7) Chloroethane	3.592	64	61952	11.86	ug/L	84
8) Trichlorofluoromethane	3.809	101	180227m	10.50	ug/L	
9) Ethyl Ether	4.097	59	132411	19.26	ug/L	96
10) 1,2-Dichlorotrifluoroe...	4.326	67	158247	17.75	ug/L	96
11) 1,1-Dichloroethene	4.379	61	225058	19.58	ug/L	96
12) Freon 113	4.438	101	130895	16.19	ug/L	96
13) Carbon Disulfide	4.455	76	473081	19.75	ug/L	94
14) Iodomethane	4.567	142	241368	19.44	ug/L	99
15) Allyl chloride	4.902	41	255963	18.77	ug/L	88
16) Methylene Chloride	5.025	49	238364	17.48	ug/L	93
17) Acetone	5.049	58	62962	100.68	ug/L	90
18) Methyl acetate	5.166	74	101388	103.58	ug/L	98
19) trans-1,2-Dichloroethene	5.207	61	219547	21.29	ug/L	91
20) Hexane	5.272	56	139109	16.39	ug/L	93
21) Methyl Tert Butyl Ether	5.313	73	446604	23.37	ug/L	92
22) Acetonitrile	5.572	40	99363	186.26	ug/L #	86
23) Di-isopropyl ether	5.695	45	595979	20.45	ug/L	99
24) Chloroprene	5.848	53	234530	17.95	ug/L	93
25) 1,1-Dichloroethane	5.871	63	263730	18.01	ug/L	95
26) Acrylonitrile	5.901	53	289937	99.97	ug/L	96
27) ETBE	6.095	59	547443	21.23	ug/L	99
28) Vinyl acetate	6.083	43	1848452	97.89	ug/L	96
29) cis-1,2-Dichloroethene	6.453	96	154165	22.98	ug/L	92
30) 2,2-Dichloropropane	6.576	77	225595	21.06	ug/L	96
31) Bromochloromethane	6.664	128	69876	18.85	ug/L	90
32) Cyclohexane	6.706	56	281260	19.19	ug/L	99
33) Chloroform	6.711	83	259881	18.65	ug/L	95
34) Ethyl acetate	6.782	43	725124	95.10	ug/L	98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\123016\
Data File : J0981879.D
Acq On : 30 Dec 2016 2:00 pm
Operator : melissam
Sample : ic5529-4 Inst : MSVOA6
Misc : MS35465,VJ5529,,,,,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Dec 30 15:48:26 2016
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Dec 30 13:30:44 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
35) Tetrahydrofuran	6.894	42	43148	20.27 ug/L	88
37) Carbon Tetrachloride	6.905	117	181435m	16.63 ug/L	
38) 1,1,1-Trichloroethane	6.970	97	232166	19.74 ug/L	96
39) 2-Butanone	6.999	43	322447	105.69 ug/L	96
40) 1,1-Dichloropropene	7.082	75	188362	19.99 ug/L	85
41) tert-Butyl Formate	7.164	59	1637762	269.72 ug/L #	78
42) Propionitrile	7.311	54	198200	190.40 ug/L	92
43) Methacrylonitrile	7.334	41	868286	178.91 ug/L	96
44) Benzene	7.334	78	507620	21.76 ug/L	89
45) TAME	7.411	73	459529	22.99 ug/L	93
47) 1,2-Dichloroethane	7.522	62	208665	18.45 ug/L	94
48) Trichloroethene	7.910	95	139646	20.17 ug/L	96
49) Methylcyclohexane	7.934	83	252087	19.38 ug/L	91
50) Dibromomethane	8.339	93	88478	20.70 ug/L	89
51) 1,2-Dichloropropane	8.427	63	155799	21.84 ug/L	92
52) Bromodichloromethane	8.474	83	193865	20.54 ug/L	97
53) Methyl methacrylate	8.568	41	140600	22.64 ug/L	92
54) 2-Chloroethyl vinyl ether	8.985	63	486488	105.08 ug/L	92
55) cis-1,3-Dichloropropene	9.085	75	240590	20.57 ug/L	94
58) Toluene	9.332	91	555141	24.37 ug/L	96
59) 2-Nitropropane	9.532	41	178417	97.08 ug/L	95
60) 4-Methyl-2-pentanone	9.649	43	754353	106.14 ug/L	97
61) trans-1,3-Dichloropropene	9.714	75	212419	23.26 ug/L	94
62) Tetrachloroethene	9.737	166	149480	20.92 ug/L	95
63) Ethyl methacrylate	9.820	69	186404	25.18 ug/L	91
64) 1,1,2-Trichloroethane	9.878	83	106352	21.97 ug/L	95
65) Dibromochloromethane	10.078	129	137620	22.40 ug/L	97
66) 1,3-Dichloropropane	10.160	76	230152	23.14 ug/L	94
67) 1,2-Dibromoethane	10.337	107	131078	24.09 ug/L	99
68) 2-hexanone	10.466	43	519740	102.45 ug/L	97
69) 1-Chlorohexane	10.771	91	210851	24.52 ug/L	91
70) Ethylbenzene	10.842	91	636641	24.30 ug/L	95
71) Chlorobenzene	10.842	112	387073	22.17 ug/L	94
72) 1,1,1,2-Tetrachloroethane	10.895	131	141413	20.51 ug/L	96
73) m,p-Xylene	10.977	91	1026949	44.56 ug/L	99
74) o-Xylene	11.418	91	576163	23.75 ug/L	97
75) Styrene	11.465	104	414980	24.44 ug/L	94
76) Bromoform	11.524	173	97885	25.13 ug/L	94
77) Isopropylbenzene	11.723	105	664459	22.35 ug/L	98
80) cis-1,4-Dichloro-2-butene	12.064	53	50094	23.05 ug/L	88
81) n-Propylbenzene	12.140	91	827854	22.91 ug/L	100
82) Bromobenzene	12.164	156	169621	24.74 ug/L	97
83) 1,1,2,2-Tetrachloroethane	12.199	83	175659	24.62 ug/L	92
84) 1,3,5-Trimethylbenzene	12.323	105	544177	22.73 ug/L	94
85) 2-Chlorotoluene	12.329	91	564319	22.77 ug/L	97
86) trans-1,4-Dichloro-2-B...	12.381	53	53495	22.43 ug/L #	83
87) 1,2,3-Trichloropropane	12.358	110	46196	21.10 ug/L	92
88) Cyclohexanone	12.428	55	35075	133.69 ug/L	88
89) 4-Chlorotoluene	12.499	91	537417	23.23 ug/L	96
90) a-Methyl Styrene	12.587	118	329204	24.29 ug/L	95

SGS ACCUTEST FA39742

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\123016\
Data File : J0981879.D
Acq On : 30 Dec 2016 2:00 pm
Operator : melissam
Sample : ic5529-4 Inst : MSVOA6
Misc : MS35465,VJ5529,,,,,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Dec 30 15:48:26 2016
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Dec 30 13:30:44 2016
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
91)	tert-Butylbenzene	12.663	91	336802	20.90	ug/L	98
92)	1,2,4-Trimethylbenzene	12.734	105	552289	22.44	ug/L	98
93)	Pentachloroethane	12.716	167	104166	21.84	ug/L	91
94)	sec-Butylbenzene	12.846	105	742125	22.19	ug/L	99
95)	4-Isopropyltoluene	12.981	119	589349	23.36	ug/L	98
96)	1,3-Dichlorobenzene	13.116	146	352632	24.57	ug/L	97
97)	1,4-Dichlorobenzene	13.198	146	355037	23.00	ug/L	92
98)	n-Butylbenzene	13.415	92	356860	23.66	ug/L	92
99)	Benzyl Chloride	13.427	126	77084	27.12	ug/L	97
100)	1,2-Dichlorobenzene	13.627	146	346877	24.14	ug/L	95
101)	1,2-Dibromo-3-Chloropr...	14.361	75	35451	25.86	ug/L	90
102)	Hexachlorobutadiene	14.908	225	145270	25.86	ug/L	92
103)	1,2,4-Trichlorobenzene	14.955	180	247437	25.24	ug/L	94
104)	Naphthalene	15.237	128	494303	26.59	ug/L	99
105)	1,2,3-Trichlorobenzene	15.407	180	232150	24.65	ug/L	96
107)	Ethanol	4.273	45	33346m	350.50	ug/L	
108)	acrolein	4.737	56	143240	89.27	ug/L	99
109)	Tert Butyl Alcohol	5.354	59	160677	195.76	ug/L	94
110)	tert Amyl alcohol	7.552	59	131125	205.99	ug/L	85
111)	Isobutyl alcohol	7.434	42	101216	301.18	ug/L #	82
112)	1,4-Dioxane	8.656	88	25813	341.56	ug/L	95
113)	3,3-Dimethyl-1-butanol	10.413	57	696442	923.14	ug/L	94

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

7.6.18

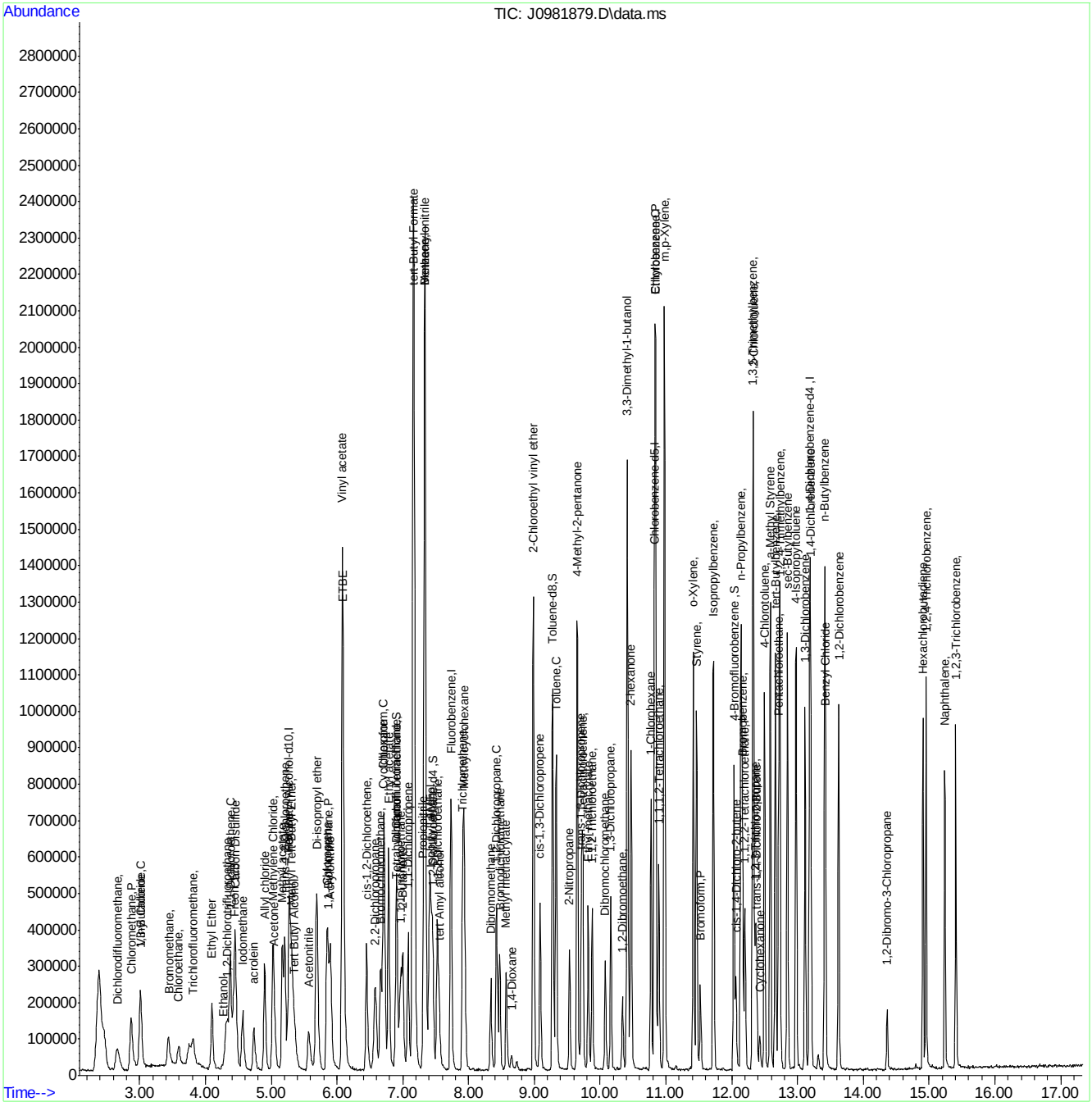
7

SGS ACCUTEST FA39742

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\123016\
Data File : J0981879.D
Acq On : 30 Dec 2016 2:00 pm
Operator : melissam
Sample : ic5529-4 Inst : MSVOA6
Misc : MS35465,VJ5529,,,,,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Dec 30 15:48:26 2016
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Dec 30 13:30:44 2016
Response via : Initial Calibration



MSJ123016.M Tue Jan 03 10:01:33 2017 Page: 4

Manual Integration Approval Summary

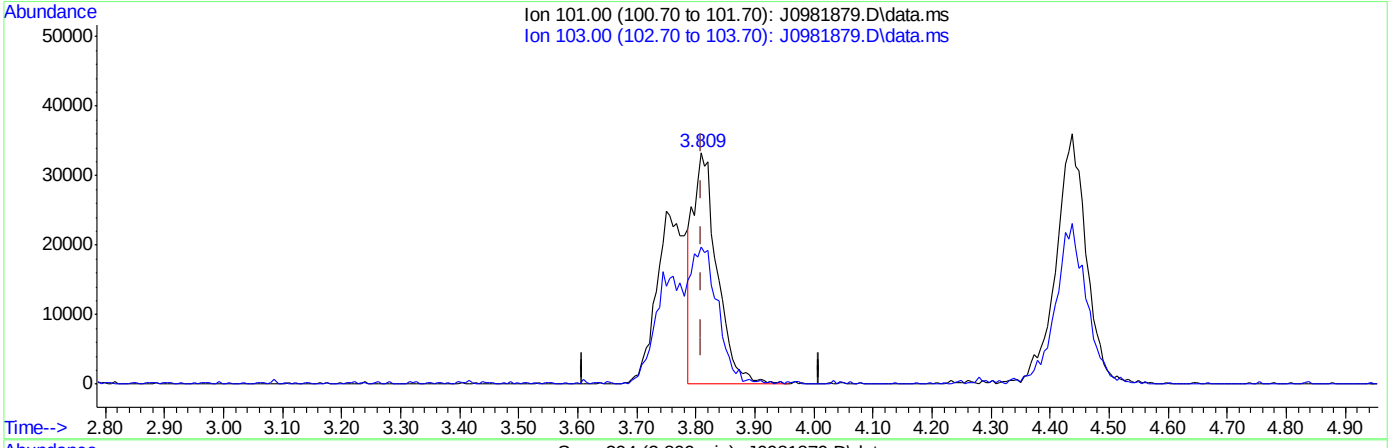
Sample Number:	VJ5529-IC5529	**Method:**	SW846 8260B
Lab FileID:	J0981879.D	**Analyst approved:**	01/03/17 10:07 Darshna Patel
Injection Time:	12/30/16 14:00	**Supervisor approved:**	01/03/17 15:48 Juan Garcia

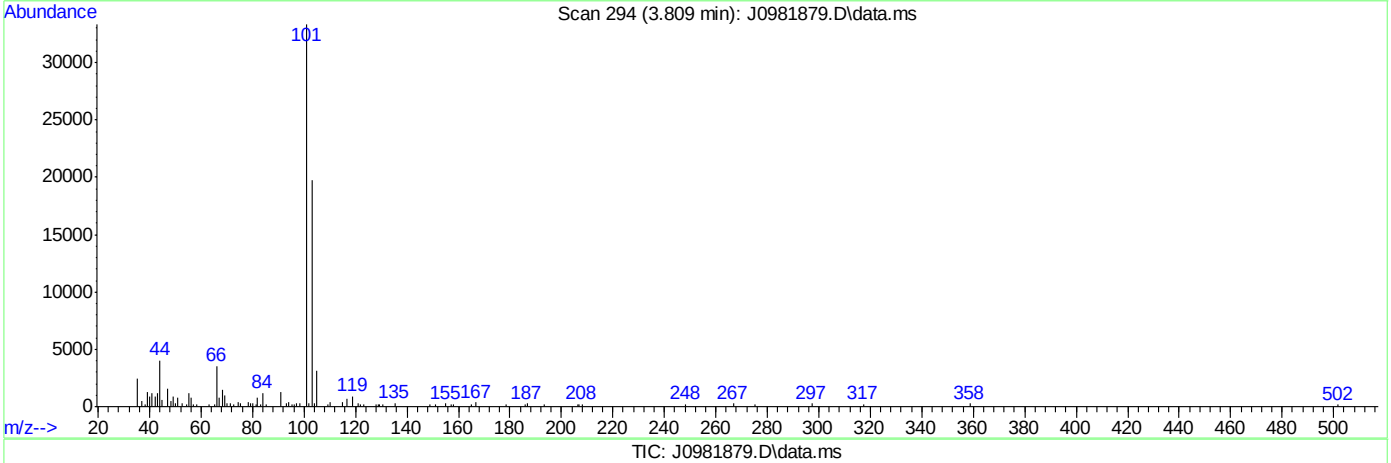
Parameter	CAS	Sig#	R.T. (min.)	Reason
Trichlorofluoromethane	75-69-4		3.81	Split peak
Ethyl Alcohol	64-17-5		4.27	Poor instrument integration
Carbon Tetrachloride	56-23-5		6.91	Overlapping peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\123016\
Data File : J0981879.D
Acq On : 30 Dec 2016 2:00 pm
Operator : melissam
Sample : ic5529-4 Inst : MSVOA6
Misc : MS35465,VJ5529,,,,,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Dec 30 15:43:56 2016
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Dec 30 13:30:44 2016
Response via : Initial Calibration





TIC: J0981879.D\data.ms

(8) Trichlorofluoromethane ( )

3.809min (-0.000) 5.57ug/L

response 96376

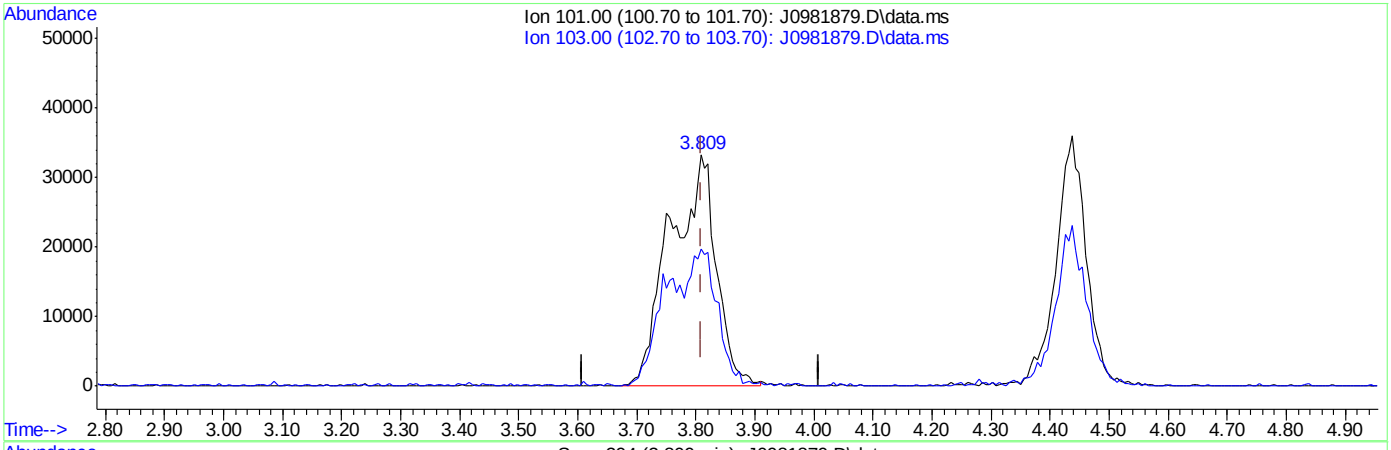
Ion	Exp%	Act%
101.00	100	100
103.00	61.00	58.17
0.00	0.00	0.00
0.00	0.00	0.00

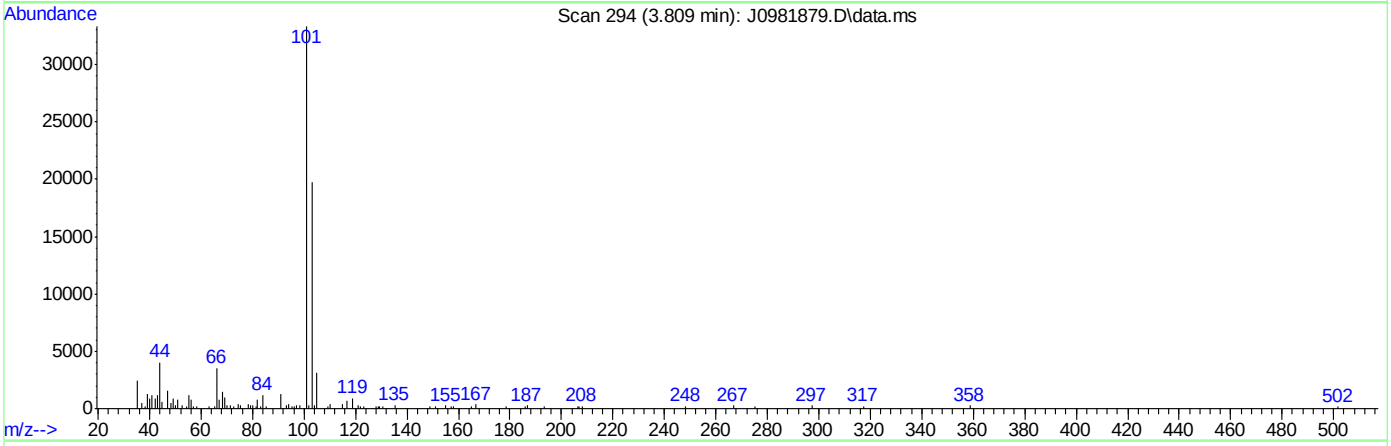
SGS ACCUTEST FA39742

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\123016\
Data File : J0981879.D
Acq On : 30 Dec 2016 2:00 pm
Operator : melissam
Sample : ic5529-4 Inst : MSVOA6
Misc : MS35465,VJ5529,,,,,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Dec 30 15:43:56 2016
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Dec 30 13:30:44 2016
Response via : Initial Calibration





TIC: J0981879.D\data.ms

(8) Trichlorofluoromethane ( )

3.809min (-0.000) 10.50ug/L m

response 180227

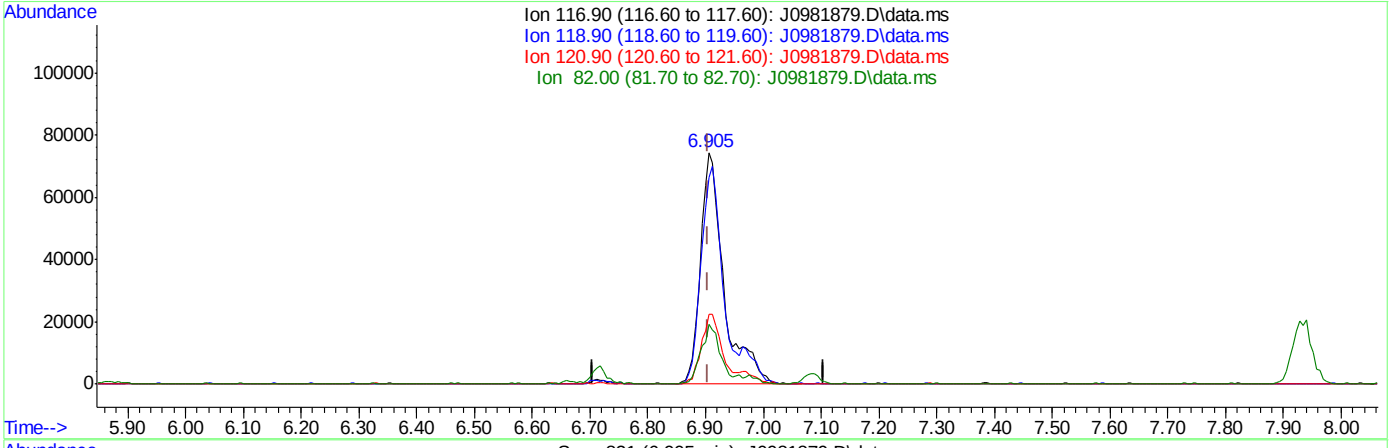
Ion	Exp%	Act%
101.00	100	100
103.00	61.00	59.28
0.00	0.00	0.00
0.00	0.00	0.00

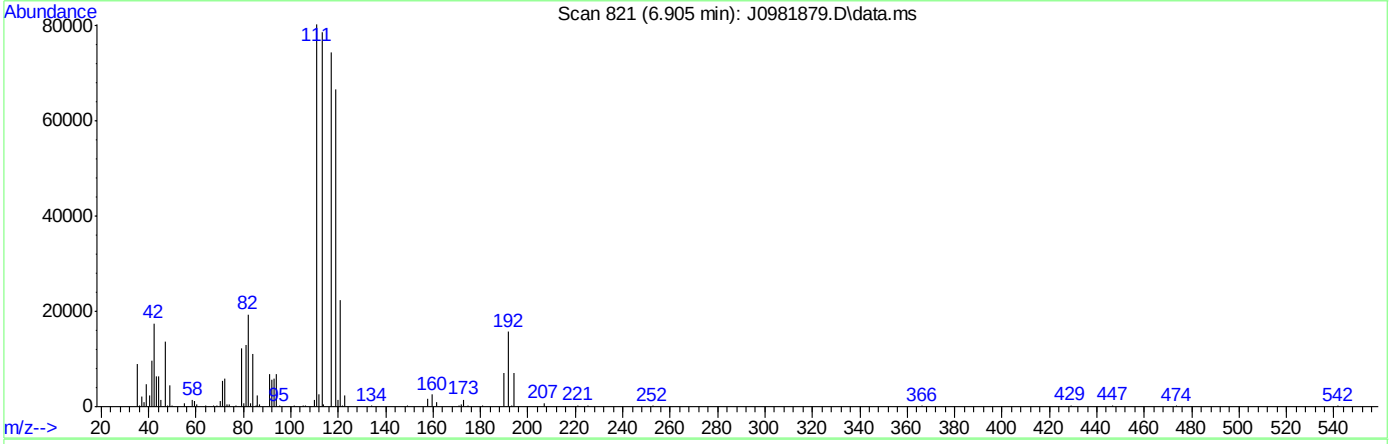
SGS ACCUTEST FA39742

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\123016\
Data File : J0981879.D
Acq On : 30 Dec 2016 2:00 pm
Operator : melissam
Sample : ic5529-4 Inst : MSVOA6
Misc : MS35465,VJ5529,,,,,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Dec 30 15:43:56 2016
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Dec 30 13:30:44 2016
Response via : Initial Calibration





TIC: J0981879.D\data.ms

(37) Carbon Tetrachloride ( )

6.905min (+0.000) 19.51ug/L

response 212839

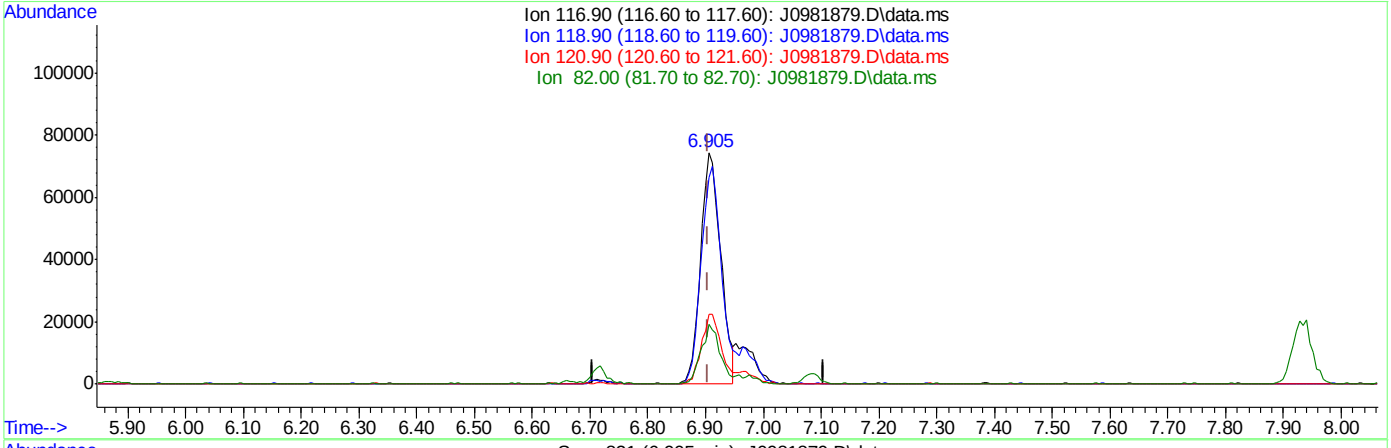
Ion	Exp%	Act%
116.90	100	100
118.90	92.50	89.36
120.90	28.60	30.18
82.00	22.10	25.94

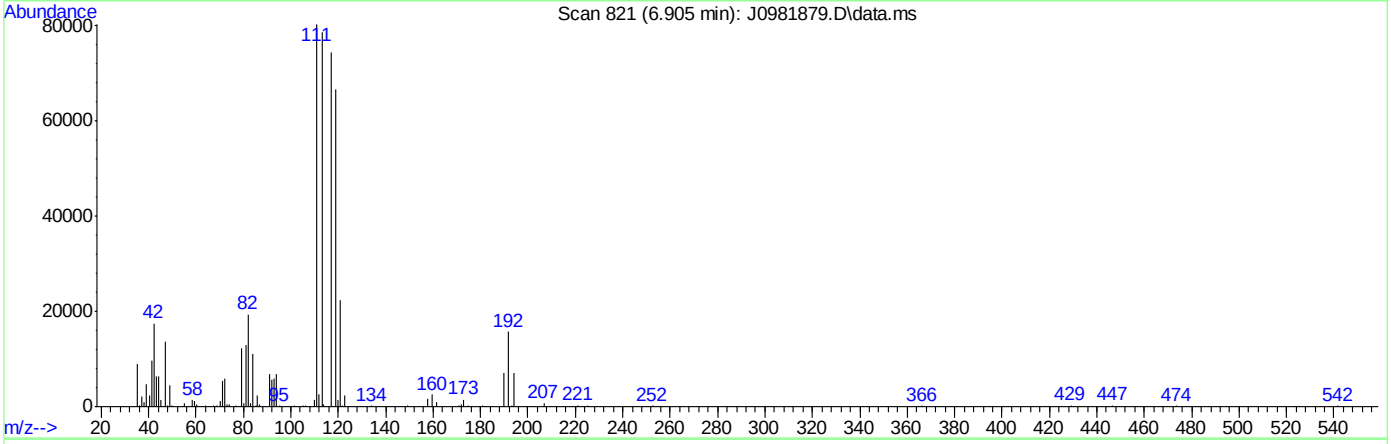
SGS ACCUTEST FA39742

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\123016\
Data File : J0981879.D
Acq On : 30 Dec 2016 2:00 pm
Operator : melissam
Sample : ic5529-4 Inst : MSVOA6
Misc : MS35465,VJ5529,,,,,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Dec 30 15:43:56 2016
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Dec 30 13:30:44 2016
Response via : Initial Calibration





TIC: J0981879.D\data.ms

(37) Carbon Tetrachloride ( )

6.905min (+0.000) 16.63ug/L m

response 181435

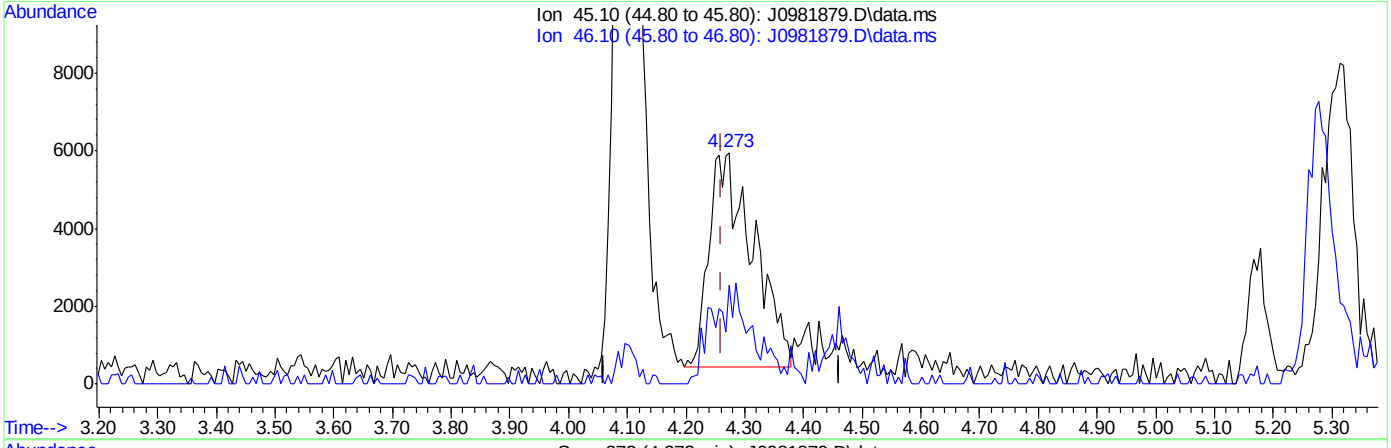
Ion	Exp%	Act%
116.90	100	100
118.90	92.50	89.36
120.90	28.60	30.18
82.00	22.10	25.94

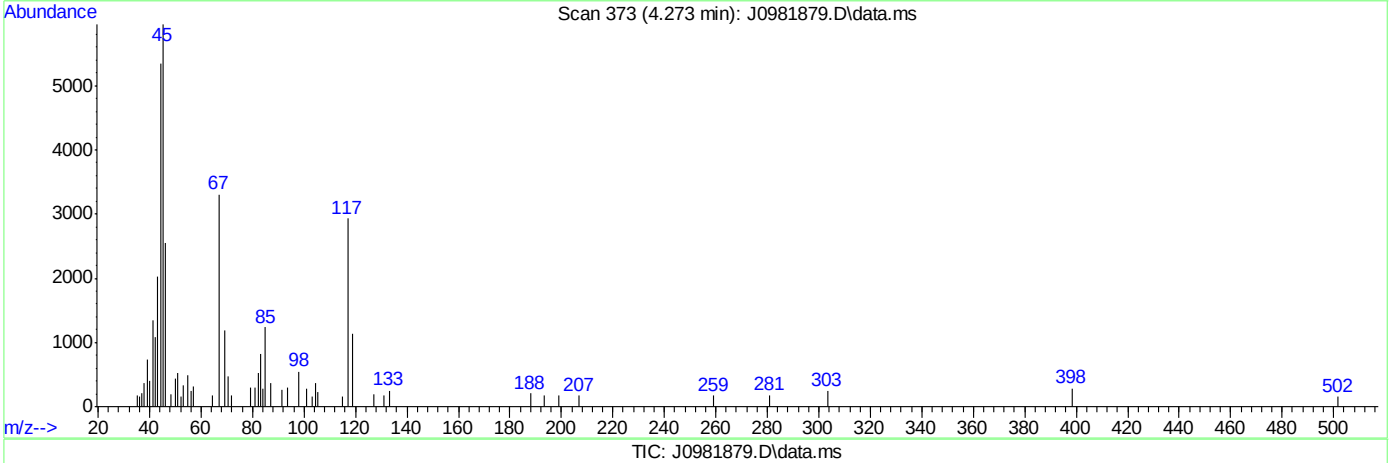
SGS ACCUTEST FA39742

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\123016\
Data File : J0981879.D
Acq On : 30 Dec 2016 2:00 pm
Operator : melissam
Sample : ic5529-4 Inst : MSVOA6
Misc : MS35465,VJ5529,,,,,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Dec 30 15:43:56 2016
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Dec 30 13:30:44 2016
Response via : Initial Calibration





TIC: J0981879.D\data.ms

(107) Ethanol

4.273min (+0.012) 298.69ug/L

response 28625

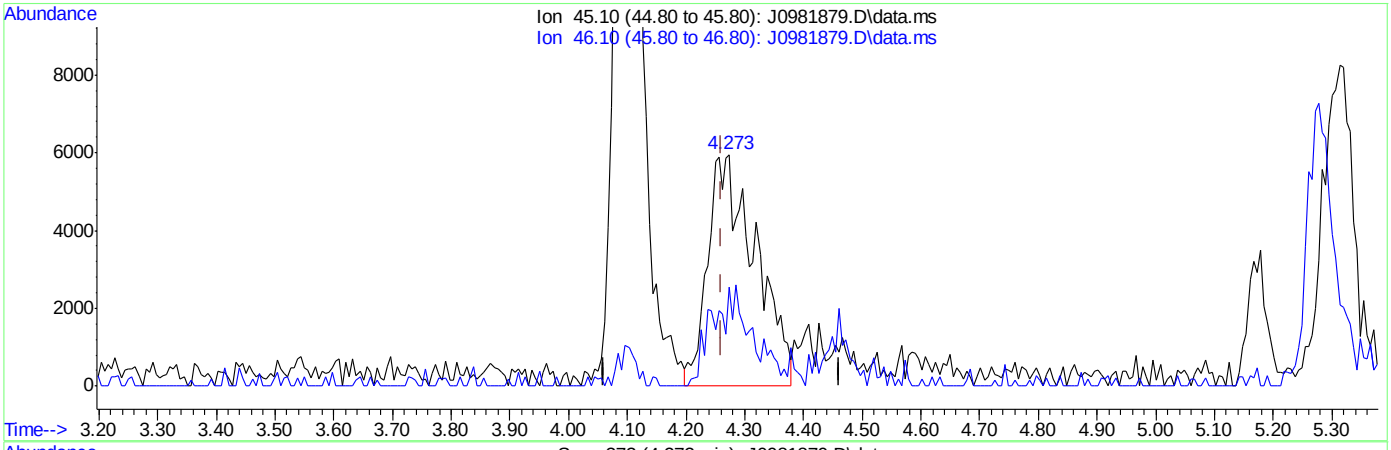
Ion	Exp%	Act%
45.10	100	100
46.10	42.10	46.04
0.00	0.00	0.00
0.00	0.00	0.00

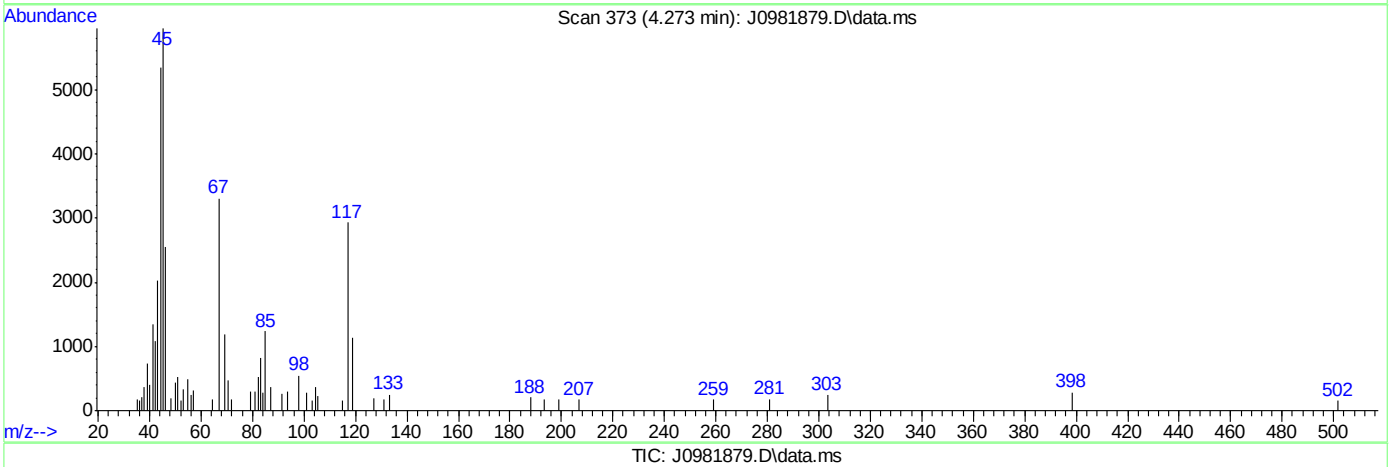
SGS ACCUTEST FA39742

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\123016\
Data File : J0981879.D
Acq On : 30 Dec 2016 2:00 pm
Operator : melissam
Sample : ic5529-4 Inst : MSVOA6
Misc : MS35465,VJ5529,,,,,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Dec 30 15:43:56 2016
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Dec 30 13:30:44 2016
Response via : Initial Calibration





TIC: J0981879.D\data.ms

(107) Ethanol

4.273min (+0.012) 350.50ug/L m

response 33346

Ion	Exp%	Act%
45.10	100	100
46.10	42.10	42.70
0.00	0.00	0.00
0.00	0.00	0.00

SGS ACCUTEST FA39742

Manual Integrations APPROVED (compounds with "m" flag)
Juan Garcia
01/03/17 15:48

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\123016\
Data File : J0981880.D
Acq On : 30 Dec 2016 2:24 pm
Operator : melissam
Sample : icc5529-5 Inst : MSVOA6
Misc : MS35465,VJ5529,,,,,
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Dec 30 15:49:13 2016
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Dec 30 13:30:44 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.728	96	659574	50.00	ug/L	0.00
56) Chlorobenzene-d5	10.824	117	466497	50.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	13.180	152	258974	50.00	ug/L	0.00
106) Tert Butyl Alcohol-d10	5.278	65	83169	250.00	ug/L	-0.01
System Monitoring Compounds						
36) Dibromofluoromethane	6.905	113	151736	40.17	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 80.34%#			
46) 1,2-Dichloroethane-d4	7.458	65	211828	40.17	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 80.34%			
57) Toluene-d8	9.279	98	613475	53.05	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 106.10%			
79) 4-Bromofluorobenzene	12.035	95	256904	59.91	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 119.82%#			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.657	85	287932	37.02	ug/L	99
3) Chloromethane	2.869	50	408247	32.10	ug/L	91
4) Vinyl Chloride	3.022	62	242311	21.84	ug/L	95
5) 1,3-Butadiene	3.010	54	164041	18.10	ug/L	97
6) Bromomethane	3.439	94	132710	19.83	ug/L	87
7) Chloroethane	3.586	64	92344	17.58	ug/L	86
8) Trichlorofluoromethane	3.803	101	303147m	17.48	ug/L	
9) Ethyl Ether	4.097	59	227963	32.47	ug/L	98
10) 1,2-Dichlorotrifluoroe...	4.326	67	280701	30.82	ug/L	95
11) 1,1-Dichloroethene	4.373	61	397983	33.91	ug/L	92
12) Freon 113	4.432	101	243240	29.79	ug/L	97
13) Carbon Disulfide	4.449	76	832935	34.05	ug/L	96
14) Iodomethane	4.567	142	410779	32.39	ug/L	99
15) Allyl chloride	4.896	41	472786	34.41	ug/L	91
16) Methylene Chloride	5.025	49	410434	30.36	ug/L	93
17) Acetone	5.049	58	111273	174.22	ug/L #	80
18) Methyl acetate	5.172	74	176848	176.90	ug/L	99
19) trans-1,2-Dichloroethene	5.201	61	376962	35.79	ug/L	97
20) Hexane	5.266	56	244803	28.86	ug/L	95
21) Methyl Tert Butyl Ether	5.313	73	767287	39.32	ug/L	91
22) Acetonitrile	5.572	40	191751	358.94	ug/L	93
23) Di-isopropyl ether	5.695	45	1044229	35.58	ug/L	96
24) Chloroprene	5.848	53	446790	33.65	ug/L	92
25) 1,1-Dichloroethane	5.871	63	453588	31.16	ug/L	92
26) Acrylonitrile	5.901	53	478053	164.77	ug/L	97
27) ETBE	6.094	59	938508	36.39	ug/L	99
28) Vinyl acetate	6.083	43	2883889	155.74	ug/L	97
29) cis-1,2-Dichloroethene	6.447	96	269918	39.39	ug/L	94
30) 2,2-Dichloropropane	6.576	77	394917	36.09	ug/L	93
31) Bromochloromethane	6.664	128	126306	33.36	ug/L	96
32) Cyclohexane	6.711	56	523950	35.70	ug/L	95
33) Chloroform	6.711	83	452349	31.79	ug/L	99
34) Ethyl acetate	6.782	43	1192975	157.07	ug/L	97

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\123016\
Data File : J0981880.D
Acq On : 30 Dec 2016 2:24 pm
Operator : melissam
Sample : icc5529-5 Inst : MSVOA6
Misc : MS35465,VJ5529,,,,,
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Dec 30 15:49:13 2016
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Dec 30 13:30:44 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
35) Tetrahydrofuran	6.894	42	75687	35.09 ug/L	97
37) Carbon Tetrachloride	6.905	117	331559m	29.75 ug/L	
38) 1,1,1-Trichloroethane	6.970	97	409022	34.05 ug/L	97
39) 2-Butanone	6.999	43	554424	177.92 ug/L	100
40) 1,1-Dichloropropene	7.082	75	335818	34.59 ug/L	90
41) tert-Butyl Formate	7.164	59	2653310	438.36 ug/L #	78
42) Propionitrile	7.311	54	350076	336.54 ug/L	94
43) Methacrylonitrile	7.334	41	1487646	314.31 ug/L	97
44) Benzene	7.334	78	869021	36.47 ug/L	92
45) TAME	7.416	73	797111	39.77 ug/L	88
47) 1,2-Dichloroethane	7.522	62	359673	31.14 ug/L	96
48) Trichloroethene	7.910	95	257356	36.39 ug/L	93
49) Methylcyclohexane	7.933	83	463103	35.34 ug/L	97
50) Dibromomethane	8.333	93	152052	34.84 ug/L	95
51) 1,2-Dichloropropane	8.427	63	273488	37.54 ug/L	91
52) Bromodichloromethane	8.474	83	328326	34.06 ug/L	93
53) Methyl methacrylate	8.568	41	249890	39.21 ug/L	92
54) 2-Chloroethyl vinyl ether	8.985	63	801095	172.66 ug/L	96
55) cis-1,3-Dichloropropene	9.085	75	415929	35.34 ug/L	94
58) Toluene	9.332	91	955598	42.23 ug/L	99
59) 2-Nitropropane	9.532	41	306735	167.57 ug/L	94
60) 4-Methyl-2-pentanone	9.649	43	1283929	186.35 ug/L	95
61) trans-1,3-Dichloropropene	9.714	75	360776	39.57 ug/L	96
62) Tetrachloroethene	9.731	166	292283	41.18 ug/L	95
63) Ethyl methacrylate	9.820	69	334733	44.13 ug/L	94
64) 1,1,2-Trichloroethane	9.878	83	179292	37.29 ug/L	98
65) Dibromochloromethane	10.078	129	241803	38.17 ug/L	93
66) 1,3-Dichloropropane	10.160	76	393164	39.74 ug/L	95
67) 1,2-Dibromoethane	10.337	107	225039	41.63 ug/L	100
68) 2-hexanone	10.466	43	883212	180.42 ug/L	93
69) 1-Chlorohexane	10.771	91	375713	43.55 ug/L	89
70) Ethylbenzene	10.842	91	1083208	41.63 ug/L	97
71) Chlorobenzene	10.842	112	663423	38.25 ug/L	94
72) 1,1,1,2-Tetrachloroethane	10.895	131	247939	36.20 ug/L	95
73) m,p-Xylene	10.977	91	1732804	78.28 ug/L	99
74) o-Xylene	11.418	91	993534	41.16 ug/L	97
75) Styrene	11.465	104	712385	42.13 ug/L	94
76) Bromoform	11.523	173	173465	44.83 ug/L	96
77) Isopropylbenzene	11.723	105	1158422	39.06 ug/L	99
80) cis-1,4-Dichloro-2-butene	12.064	53	85166	38.67 ug/L #	74
81) n-Propylbenzene	12.140	91	1402957	39.93 ug/L	96
82) Bromobenzene	12.164	156	296705	42.55 ug/L	98
83) 1,1,2,2-Tetrachloroethane	12.199	83	295735	40.76 ug/L	90
84) 1,3,5-Trimethylbenzene	12.323	105	948009	39.65 ug/L	98
85) 2-Chlorotoluene	12.328	91	956187	39.26 ug/L	99
86) trans-1,4-Dichloro-2-B...	12.381	53	92538	38.40 ug/L #	79
87) 1,2,3-Trichloropropane	12.364	110	82301	37.38 ug/L	96
88) Cyclohexanone	12.428	55	60316	239.39 ug/L	91
89) 4-Chlorotoluene	12.499	91	940964	41.30 ug/L	100
90) a-Methyl Styrene	12.587	118	610773	44.80 ug/L	95

SGS ACCUTEST FA39742

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\123016\
Data File : J0981880.D
Acq On : 30 Dec 2016 2:24 pm
Operator : melissam
Sample : icc5529-5 Inst : MSVOA6
Misc : MS35465,VJ5529,,,,,
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Dec 30 15:49:13 2016
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Dec 30 13:30:44 2016
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
91)	tert-Butylbenzene	12.663	91	605977	37.84	ug/L		97
92)	1,2,4-Trimethylbenzene	12.734	105	933451	38.10	ug/L		94
93)	Pentachloroethane	12.716	167	176791	35.76	ug/L		91
94)	sec-Butylbenzene	12.845	105	1296722	39.22	ug/L		96
95)	4-Isopropyltoluene	12.981	119	1035567	40.96	ug/L		98
96)	1,3-Dichlorobenzene	13.116	146	614095	42.07	ug/L		97
97)	1,4-Dichlorobenzene	13.198	146	612082	39.00	ug/L		95
98)	n-Butylbenzene	13.410	92	625445	41.32	ug/L		97
99)	Benzyl Chloride	13.427	126	135732	46.94	ug/L	#	82
100)	1,2-Dichlorobenzene	13.627	146	597585	40.90	ug/L		95
101)	1,2-Dibromo-3-Chloropr...	14.361	75	59681	41.65	ug/L		86
102)	Hexachlorobutadiene	14.908	225	253201	41.59	ug/L		90
103)	1,2,4-Trichlorobenzene	14.955	180	425721	41.34	ug/L		94
104)	Naphthalene	15.237	128	860531	44.71	ug/L		98
105)	1,2,3-Trichlorobenzene	15.407	180	400153	40.56	ug/L		96
107)	Ethanol	4.279	45	50682m	560.50	ug/L		
108)	acrolein	4.731	56	233693	152.10	ug/L		96
109)	Tert Butyl Alcohol	5.354	59	271320	345.78	ug/L		98
110)	tert Amyl alcohol	7.557	59	223345	366.35	ug/L		88
111)	Isobutyl alcohol	7.434	42	178901	568.70	ug/L	#	82
112)	1,4-Dioxane	8.656	88	45988	642.42	ug/L		94
113)	3,3-Dimethyl-1-butanol	10.413	57	1144267	1614.24	ug/L		95

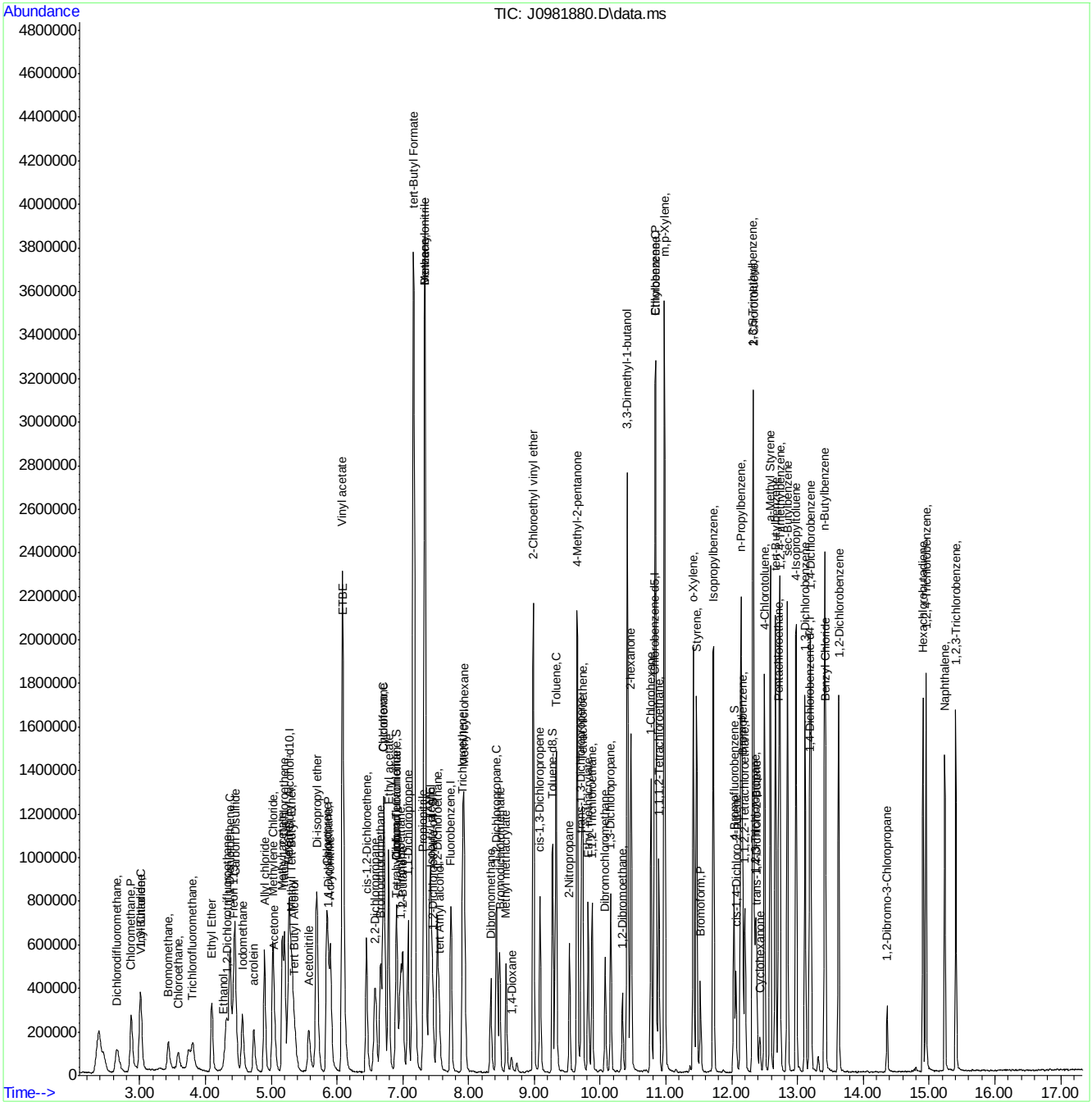
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST FA39742

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\123016\
Data File : J0981880.D
Acq On : 30 Dec 2016 2:24 pm
Operator : melissam
Sample : icc5529-5 Inst : MSVOA6
Misc : MS35465,VJ5529,,,,,
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Dec 30 15:49:13 2016
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Dec 30 13:30:44 2016
Response via : Initial Calibration



SGS ACCUTEST FA39742

Manual Integration Approval Summary

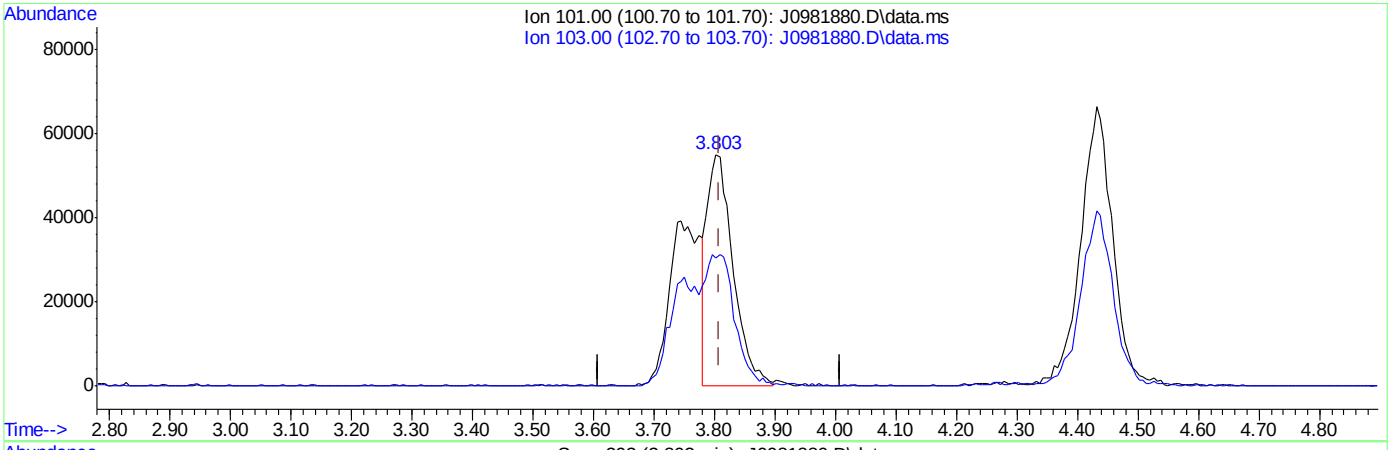
Sample Number:	VJ5529-ICC5529	**Method:**	SW846 8260B
Lab FileID:	J0981880.D	**Analyst approved:**	01/03/17 10:07 Darshna Patel
Injection Time:	12/30/16 14:24	**Supervisor approved:**	01/03/17 15:48 Juan Garcia

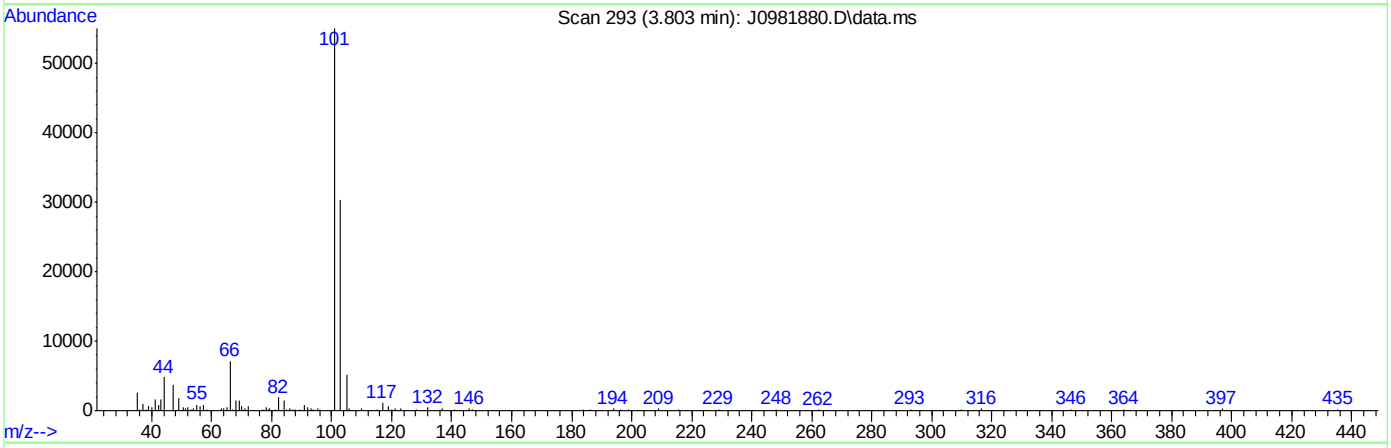
Parameter	CAS	Sig#	R.T. (min.)	Reason
Trichlorofluoromethane	75-69-4		3.80	Split peak
Ethyl Alcohol	64-17-5		4.28	Poor instrument integration
Carbon Tetrachloride	56-23-5		6.91	Overlapping peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\123016\
Data File : J0981880.D
Acq On : 30 Dec 2016 2:24 pm
Operator : melissam
Sample : icc5529-5 Inst : MSVOA6
Misc : MS35465,VJ5529,,,,,
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Dec 30 15:43:58 2016
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Dec 30 13:30:44 2016
Response via : Initial Calibration





TIC: J0981880.D\data.ms

(8) Trichlorofluoromethane ( )

3.803min (-0.006) 9.39ug/L

response 164867

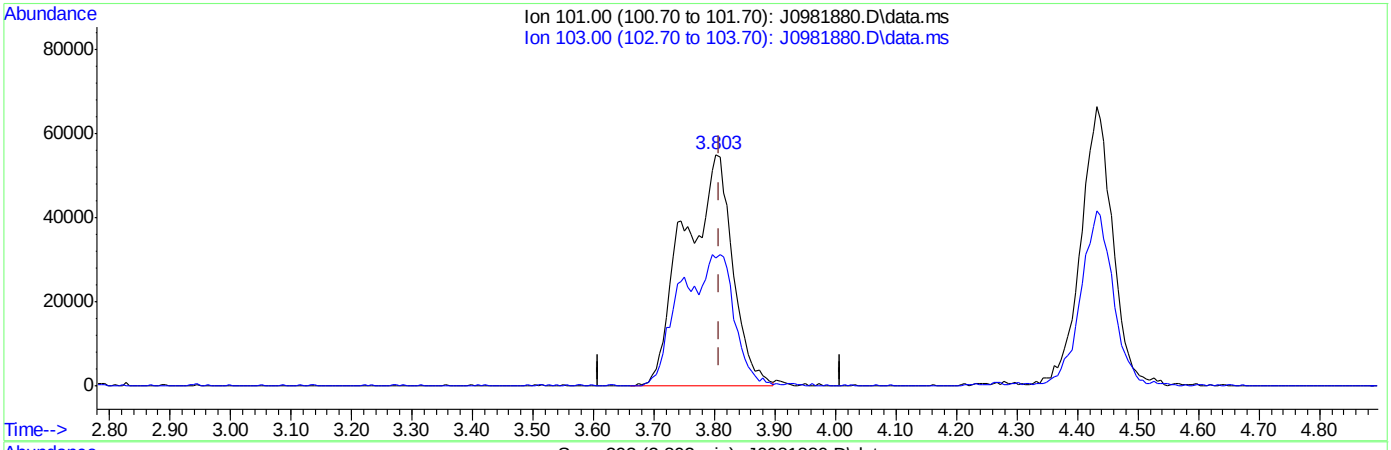
Ion	Exp%	Act%
101.00	100	100
103.00	61.00	55.17
0.00	0.00	0.00
0.00	0.00	0.00

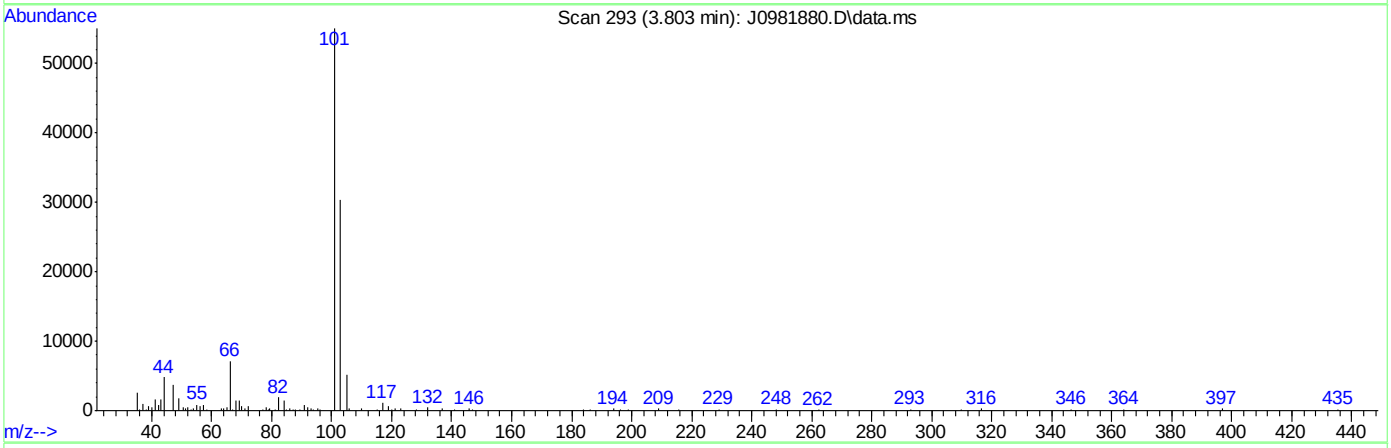
SGS ACCUTEST FA39742

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\123016\
Data File : J0981880.D
Acq On : 30 Dec 2016 2:24 pm
Operator : melissam
Sample : icc5529-5 Inst : MSVOA6
Misc : MS35465,VJ5529,,,,,
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Dec 30 15:43:58 2016
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Dec 30 13:30:44 2016
Response via : Initial Calibration





TIC: J0981880.D\data.ms

(8) Trichlorofluoromethane ( )

3.803min (-0.006) 17.48ug/L m

response 303147

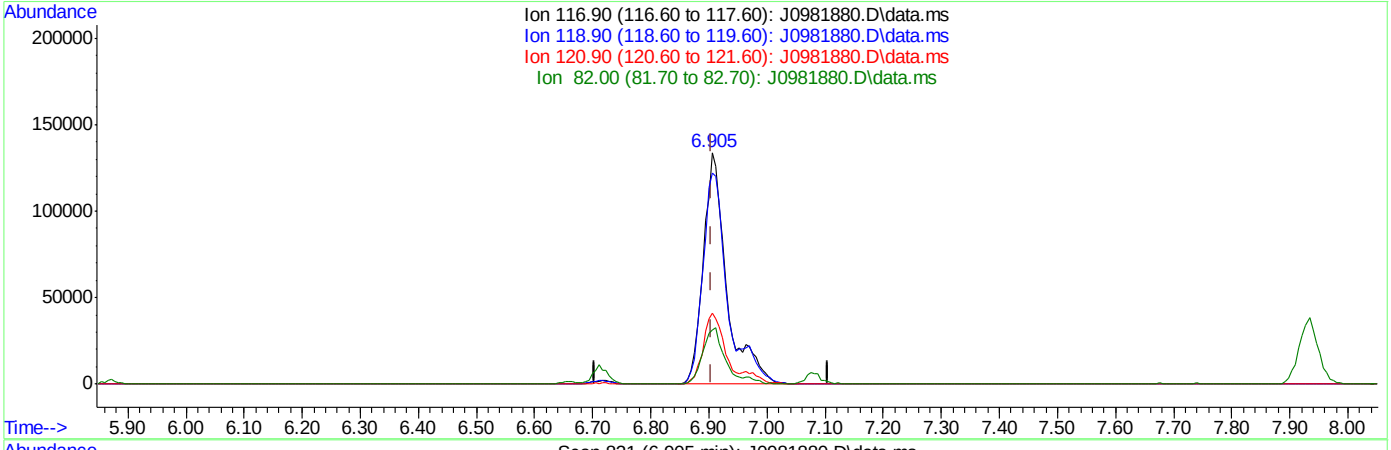
Ion	Exp%	Act%
101.00	100	100
103.00	61.00	55.21
0.00	0.00	0.00
0.00	0.00	0.00

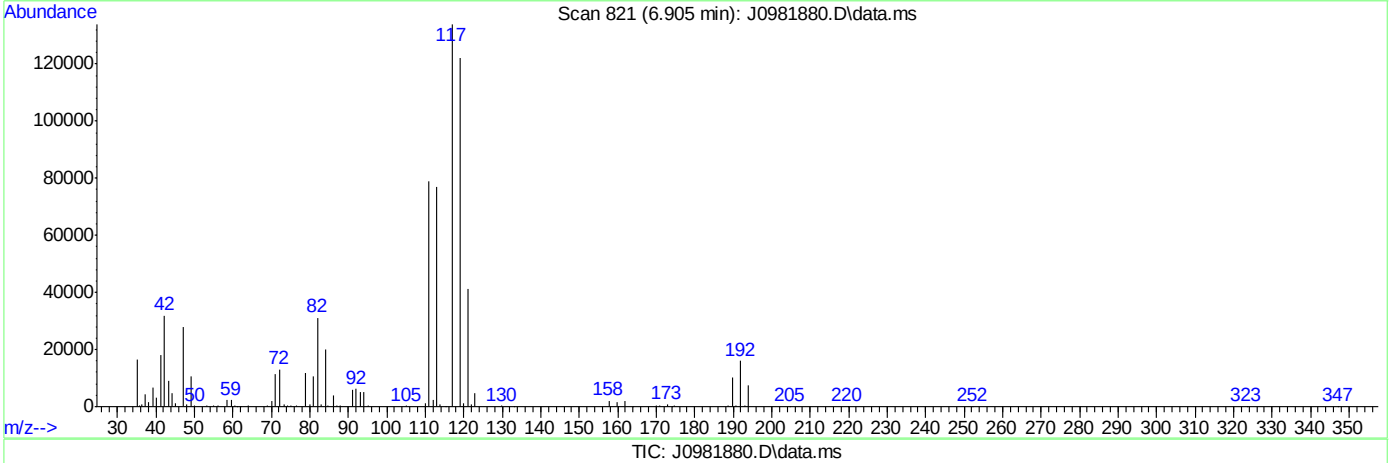
SGS ACCUTEST FA39742

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\123016\
Data File : J0981880.D
Acq On : 30 Dec 2016 2:24 pm
Operator : melissam
Sample : icc5529-5 Inst : MSVOA6
Misc : MS35465,VJ5529,,,,,
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Dec 30 15:43:58 2016
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Dec 30 13:30:44 2016
Response via : Initial Calibration





TIC: J0981880.D\data.ms

(37) Carbon Tetrachloride ( )

6.905min (+0.000) 33.91ug/L

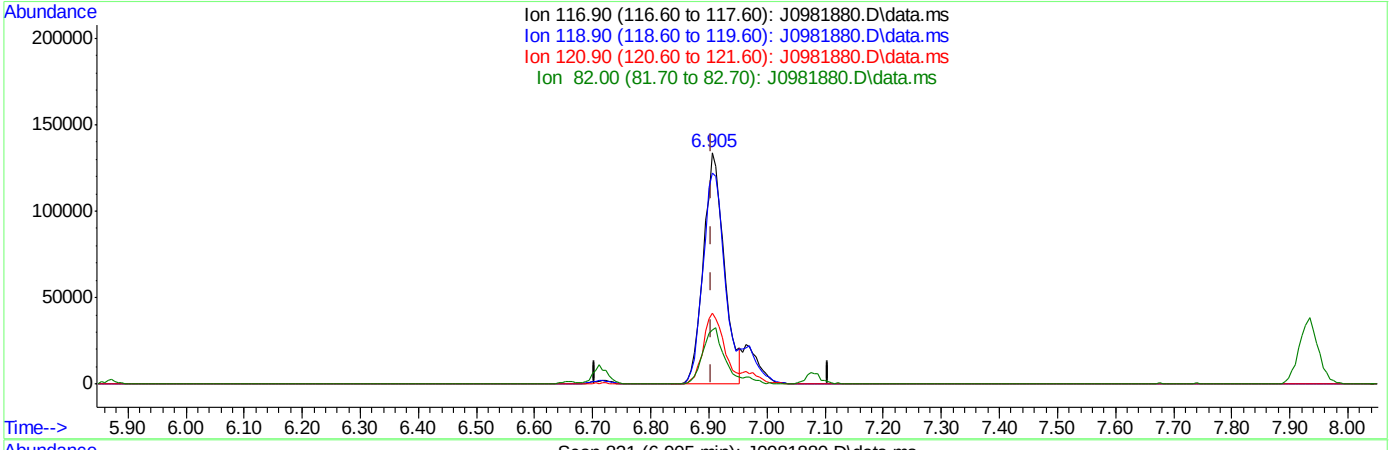
response 377876

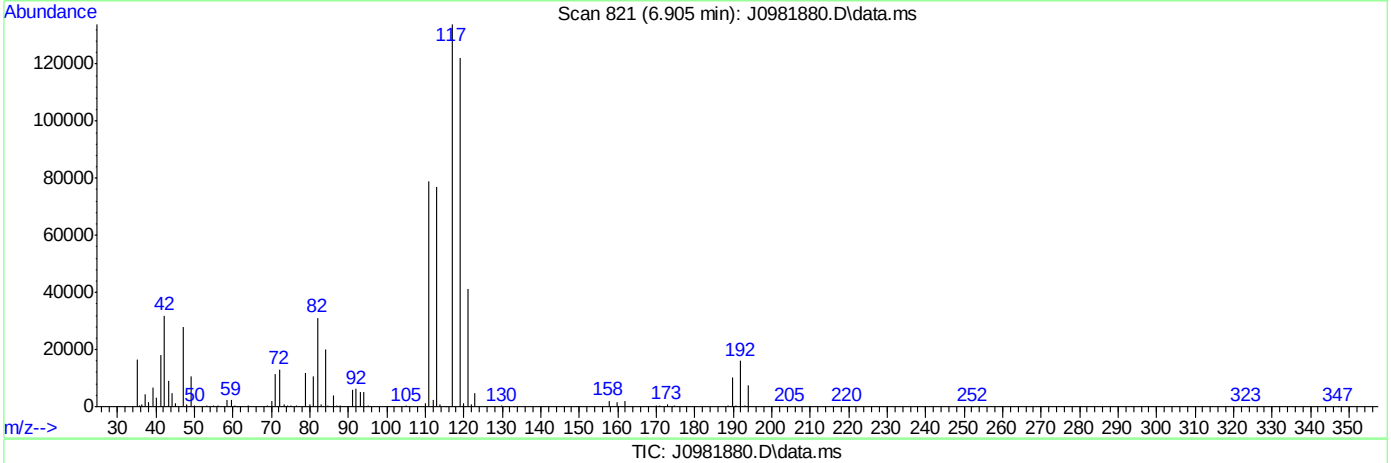
Ion	Exp%	Act%
116.90	100	100
118.90	92.50	91.32
120.90	28.60	30.83
82.00	22.10	22.95

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\123016\
Data File : J0981880.D
Acq On : 30 Dec 2016 2:24 pm
Operator : melissam
Sample : icc5529-5 Inst : MSVOA6
Misc : MS35465,VJ5529,,,,,
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Dec 30 15:43:58 2016
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Dec 30 13:30:44 2016
Response via : Initial Calibration





TIC: J0981880.D\data.ms

(37) Carbon Tetrachloride ( )

6.905min (+0.000) 29.75ug/L m

response 331559

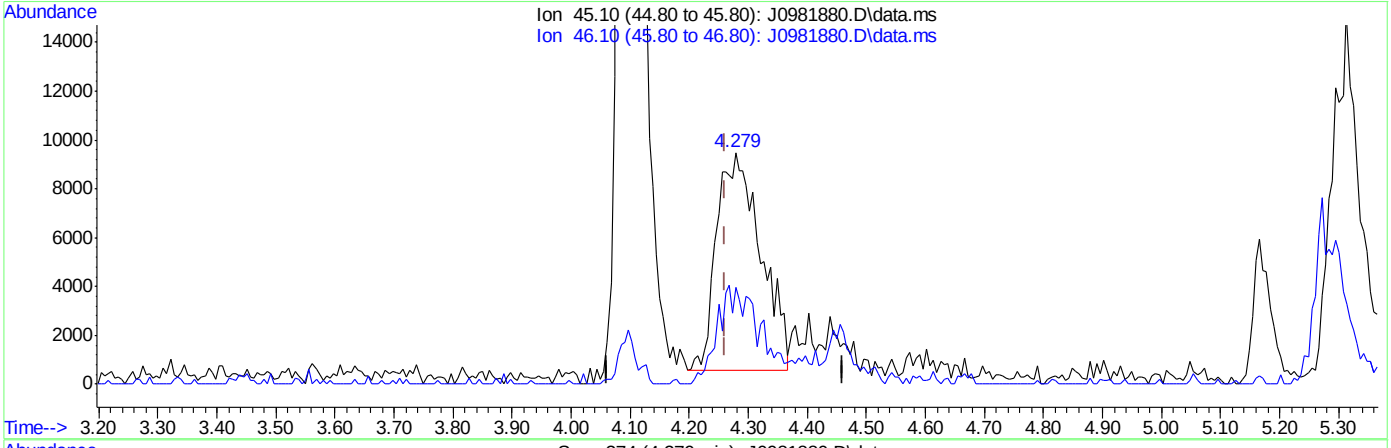
Ion	Exp%	Act%
116.90	100	100
118.90	92.50	91.32
120.90	28.60	30.83
82.00	22.10	23.30

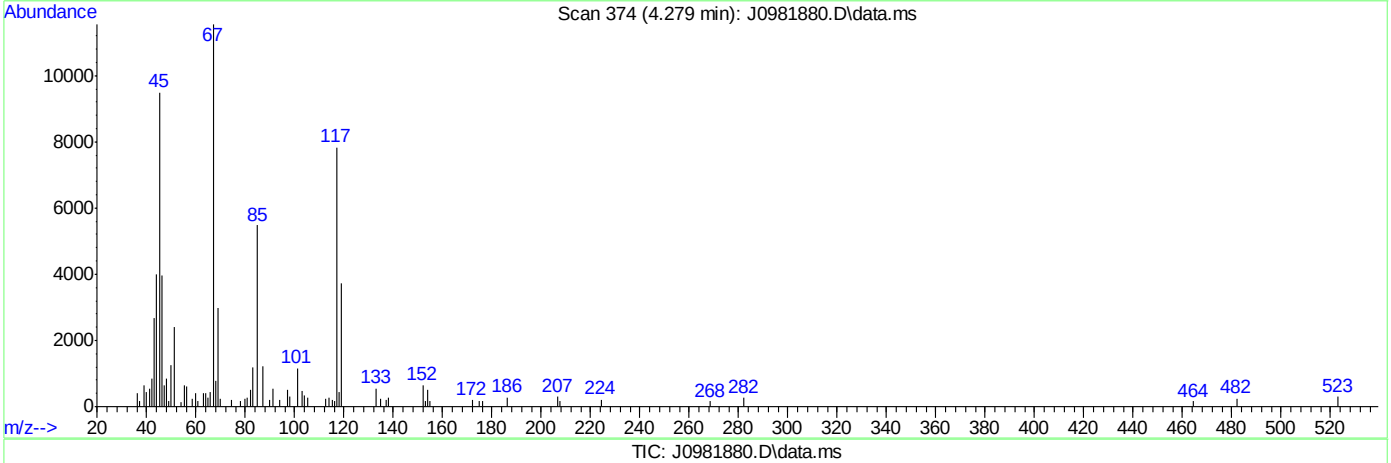
SGS ACCUTEST FA39742

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\123016\
Data File : J0981880.D
Acq On : 30 Dec 2016 2:24 pm
Operator : melissam
Sample : icc5529-5 Inst : MSVOA6
Misc : MS35465,VJ5529,,,,,
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Dec 30 15:43:58 2016
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Dec 30 13:30:44 2016
Response via : Initial Calibration





TIC: J0981880.D\data.ms

(107) Ethanol

4.279min (+0.018) 508.13ug/L

response 46297

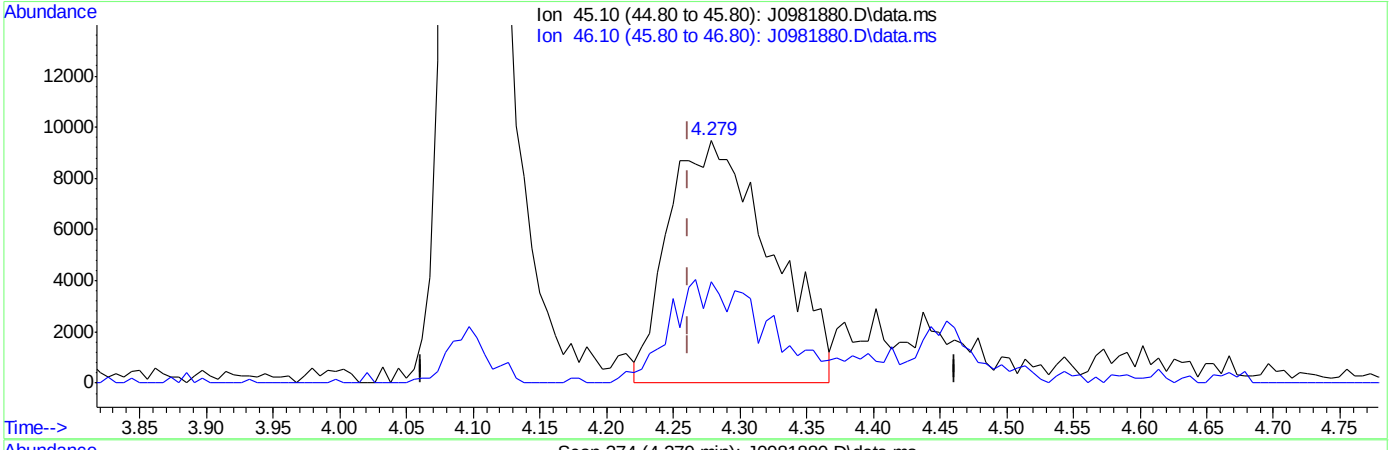
Ion	Exp%	Act%
45.10	100	100
46.10	42.10	44.17
0.00	0.00	0.00
0.00	0.00	0.00

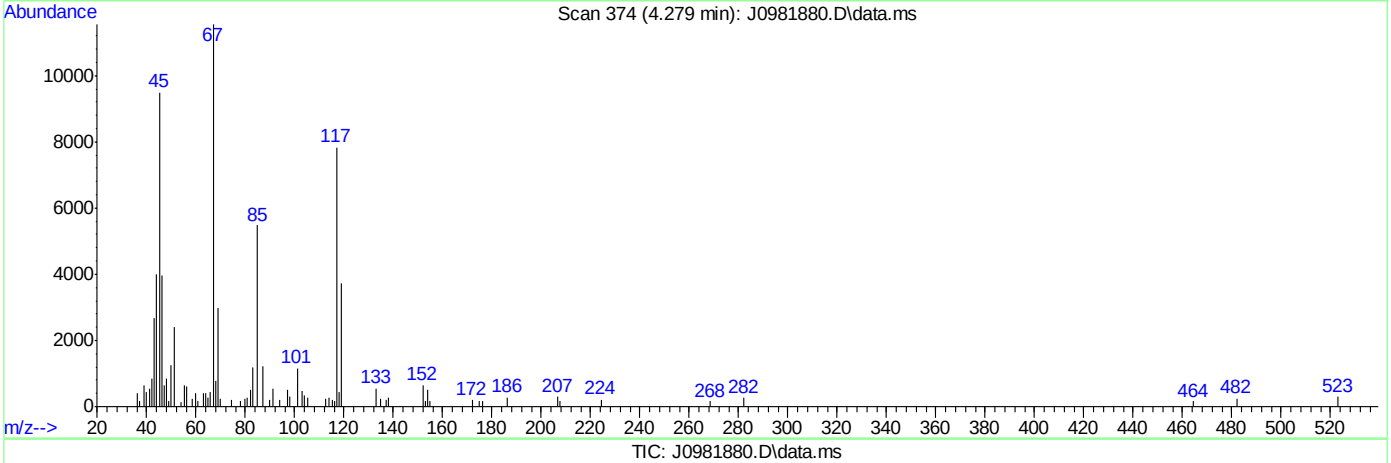
SGS ACCUTEST FA39742

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\123016\
Data File : J0981880.D
Acq On : 30 Dec 2016 2:24 pm
Operator : melissam
Sample : icc5529-5 Inst : MSVOA6
Misc : MS35465,VJ5529,,,,,
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Dec 30 15:43:58 2016
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Dec 30 13:30:44 2016
Response via : Initial Calibration





(107) Ethanol

4.279min (+0.018) 560.50ug/L m

response 50682

Ion	Exp%	Act%
45.10	100	100
46.10	42.10	41.60
0.00	0.00	0.00
0.00	0.00	0.00

SGS ACCUTEST FA39742

Manual Integrations APPROVED (compounds with "m" flag)
Juan Garcia
01/03/17 15:48

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\123016\
Data File : J0981881.D
Acq On : 30 Dec 2016 2:48 pm
Operator : melissam
Sample : ic5529-6 Inst : MSVOA6
Misc : MS35465,VJ5529,,,,,
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Dec 30 15:49:46 2016
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Dec 30 13:30:44 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.734	96	667152	50.00	ug/L	0.00
56) Chlorobenzene-d5	10.824	117	463726	50.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	13.186	152	262188	50.00	ug/L	0.00
106) Tert Butyl Alcohol-d10	5.284	65	82208	250.00	ug/L	# 0.00
System Monitoring Compounds						
36) Dibromofluoromethane	6.905	113	154586	40.46	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 80.92%#			
46) 1,2-Dichloroethane-d4	7.458	65	210254	39.42	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 78.84%#			
57) Toluene-d8	9.279	98	632980	55.07	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 110.14%			
79) 4-Bromofluorobenzene	12.035	95	254016	58.51	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 117.02%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.652	85	535981	68.13	ug/L	95
3) Chloromethane	2.875	50	736773	60.64	ug/L	93
4) Vinyl Chloride	3.028	62	456445	42.83	ug/L	96
5) 1,3-Butadiene	3.016	54	292259	33.02	ug/L	94
6) Bromomethane	3.439	94	227591	34.57	ug/L	88
7) Chloroethane	3.580	64	151709	29.48	ug/L	89
8) Trichlorofluoromethane	3.809	101	533080m	31.05	ug/L	
9) Ethyl Ether	4.103	59	382876	53.91	ug/L	98
10) 1,2-Dichlorotrifluoroe...	4.332	67	489461	53.14	ug/L	96
11) 1,1-Dichloroethene	4.373	61	693624	58.43	ug/L	96
12) Freon 113	4.426	101	412446	50.84	ug/L	97
13) Carbon Disulfide	4.455	76	1433093	57.92	ug/L	95
14) Iodomethane	4.567	142	732072	57.07	ug/L	95
15) Allyl chloride	4.902	41	791664	58.17	ug/L	90
16) Methylene Chloride	5.025	49	704481	54.61	ug/L	91
17) Acetone	5.049	58	190381	294.70	ug/L	99
18) Methyl acetate	5.172	74	307102	303.70	ug/L #	85
19) trans-1,2-Dichloroethene	5.207	61	661301	62.08	ug/L	94
20) Hexane	5.272	56	428361	52.10	ug/L #	88
21) Methyl Tert Butyl Ether	5.313	73	1319379	66.84	ug/L	91
22) Acetonitrile	5.566	40	289401	547.46	ug/L	88
23) Di-isopropyl ether	5.695	45	1761474	60.77	ug/L	98
24) Chloroprene	5.848	53	765851	57.46	ug/L	92
25) 1,1-Dichloroethane	5.871	63	793195	56.99	ug/L	92
26) Acrylonitrile	5.901	53	832445	296.25	ug/L	93
27) ETBE	6.095	59	1629617	65.11	ug/L	99
28) Vinyl acetate	6.083	43	4592141	266.28	ug/L	99
29) cis-1,2-Dichloroethene	6.447	96	479937	69.25	ug/L	93
30) 2,2-Dichloropropane	6.576	77	671134	60.64	ug/L	92
31) Bromochloromethane	6.659	128	221380	57.80	ug/L	97
32) Cyclohexane	6.712	56	905432	63.12	ug/L	94
33) Chloroform	6.712	83	753888	52.37	ug/L	96
34) Ethyl acetate	6.782	43	2011220	275.05	ug/L	95

SGS ACCUTEST FA39742

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\123016\
Data File : J0981881.D
Acq On : 30 Dec 2016 2:48 pm
Operator : melissam
Sample : ic5529-6 Inst : MSVOA6
Misc : MS35465,VJ5529,,,,,
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Dec 30 15:49:46 2016
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Dec 30 13:30:44 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
35) Tetrahydrofuran	6.900	42	135945	63.29	ug/L		96
37) Carbon Tetrachloride	6.905	117	574607m	50.97	ug/L		
38) 1,1,1-Trichloroethane	6.970	97	705208	58.04	ug/L		97
39) 2-Butanone	6.999	43	941730	298.78	ug/L		100
40) 1,1-Dichloropropene	7.082	75	570811	58.39	ug/L		89
41) tert-Butyl Formate	7.164	59	4381999	749.78	ug/L	#	78
42) Propionitrile	7.311	54	593422	586.06	ug/L		98
43) Methacrylonitrile	7.340	41	2333062	526.27	ug/L		98
44) Benzene	7.334	78	1449742	60.15	ug/L		88
45) TAME	7.411	73	1343328	68.46	ug/L		92
47) 1,2-Dichloroethane	7.522	62	606823	51.93	ug/L		95
48) Trichloroethene	7.910	95	427003	59.70	ug/L		96
49) Methylcyclohexane	7.934	83	808077	62.47	ug/L		96
50) Dibromomethane	8.333	93	262827	59.53	ug/L		91
51) 1,2-Dichloropropane	8.427	63	470017	63.79	ug/L		92
52) Bromodichloromethane	8.468	83	569753	58.43	ug/L		93
53) Methyl methacrylate	8.568	41	417474	64.29	ug/L		91
54) 2-Chloroethyl vinyl ether	8.985	63	1371443	303.50	ug/L		92
55) cis-1,3-Dichloropropene	9.085	75	721973	62.37	ug/L		93
58) Toluene	9.332	91	1616393	71.85	ug/L		95
59) 2-Nitropropane	9.532	41	520591	284.84	ug/L		92
60) 4-Methyl-2-pentanone	9.649	43	2062386	313.37	ug/L		93
61) trans-1,3-Dichloropropene	9.714	75	624856	68.33	ug/L		96
62) Tetrachloroethene	9.732	166	499794	70.84	ug/L		96
63) Ethyl methacrylate	9.814	69	580151	73.45	ug/L		94
64) 1,1,2-Trichloroethane	9.879	83	314606	65.82	ug/L		97
65) Dibromochloromethane	10.078	129	426216	63.89	ug/L		96
66) 1,3-Dichloropropane	10.161	76	664988	67.44	ug/L		93
67) 1,2-Dibromoethane	10.337	107	380303	70.78	ug/L		93
68) 2-hexanone	10.466	43	1466751	317.89	ug/L		90
69) 1-Chlorohexane	10.772	91	629188	72.25	ug/L		90
70) Ethylbenzene	10.842	91	1765200	68.24	ug/L		98
71) Chlorobenzene	10.842	112	1099290	63.76	ug/L		96
72) 1,1,1,2-Tetrachloroethane	10.895	131	430532	63.24	ug/L		93
73) m,p-Xylene	10.977	91	2745695	131.99	ug/L		94
74) o-Xylene	11.418	91	1664473	69.16	ug/L		96
75) Styrene	11.465	104	1215219	71.99	ug/L		94
76) Bromoform	11.524	173	305978	79.55	ug/L		96
77) Isopropylbenzene	11.723	105	1938297	65.31	ug/L		95
80) cis-1,4-Dichloro-2-butene	12.064	53	144028	64.98	ug/L	#	71
81) n-Propylbenzene	12.141	91	2294288	70.22	ug/L		94
82) Bromobenzene	12.164	156	513967	72.80	ug/L		96
83) 1,1,2,2-Tetrachloroethane	12.199	83	506193	68.91	ug/L		91
84) 1,3,5-Trimethylbenzene	12.323	105	1553417	66.06	ug/L		93
85) 2-Chlorotoluene	12.329	91	1540711	66.25	ug/L		97
86) trans-1,4-Dichloro-2-B...	12.382	53	160705	66.65	ug/L	#	82
87) 1,2,3-Trichloropropane	12.364	110	135812	61.98	ug/L		95
88) Cyclohexanone	12.429	55	102856	459.78	ug/L		87
89) 4-Chlorotoluene	12.499	91	1550759	71.00	ug/L		94
90) a-Methyl Styrene	12.587	118	1018653	75.03	ug/L		96

SGS ACCUTEST FA39742

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\123016\
Data File : J0981881.D
Acq On : 30 Dec 2016 2:48 pm
Operator : melissam
Sample : ic5529-6 Inst : MSVOA6
Misc : MS35465,VJ5529,,,,,
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Dec 30 15:49:46 2016
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Dec 30 13:30:44 2016
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
91)	tert-Butylbenzene	12.664	91	1017414	65.20	ug/L		98
92)	1,2,4-Trimethylbenzene	12.734	105	1540058	64.42	ug/L		93
93)	Pentachloroethane	12.716	167	307681	59.52	ug/L		97
94)	sec-Butylbenzene	12.846	105	2130678	66.78	ug/L		97
95)	4-Isopropyltoluene	12.981	119	1709873	68.37	ug/L		97
96)	1,3-Dichlorobenzene	13.116	146	1040441	70.41	ug/L		97
97)	1,4-Dichlorobenzene	13.198	146	1051194	66.15	ug/L		94
98)	n-Butylbenzene	13.410	92	1059404	70.72	ug/L		91
99)	Benzyl Chloride	13.427	126	224334	76.56	ug/L	#	89
100)	1,2-Dichlorobenzene	13.627	146	1016182	68.70	ug/L		96
101)	1,2-Dibromo-3-Chloropr...	14.362	75	103508	68.23	ug/L		91
102)	Hexachlorobutadiene	14.908	225	436612	64.90	ug/L		90
103)	1,2,4-Trichlorobenzene	14.955	180	736303	67.20	ug/L		94
104)	Naphthalene	15.237	128	1451673	72.53	ug/L		99
105)	1,2,3-Trichlorobenzene	15.407	180	684594	65.57	ug/L		95
107)	Ethanol	4.267	45	83817m	1002.28	ug/L		
108)	acrolein	4.737	56	404801	279.53	ug/L		98
109)	Tert Butyl Alcohol	5.360	59	473437	641.59	ug/L		94
110)	tert Amyl alcohol	7.558	59	376860	651.80	ug/L		90
111)	Isobutyl alcohol	7.434	42	297573	1042.78	ug/L	#	77
112)	1,4-Dioxane	8.651	88	84800	1293.96	ug/L		91
113)	3,3-Dimethyl-1-butanol	10.413	57	1986270	3125.04	ug/L		94

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

7.6.20

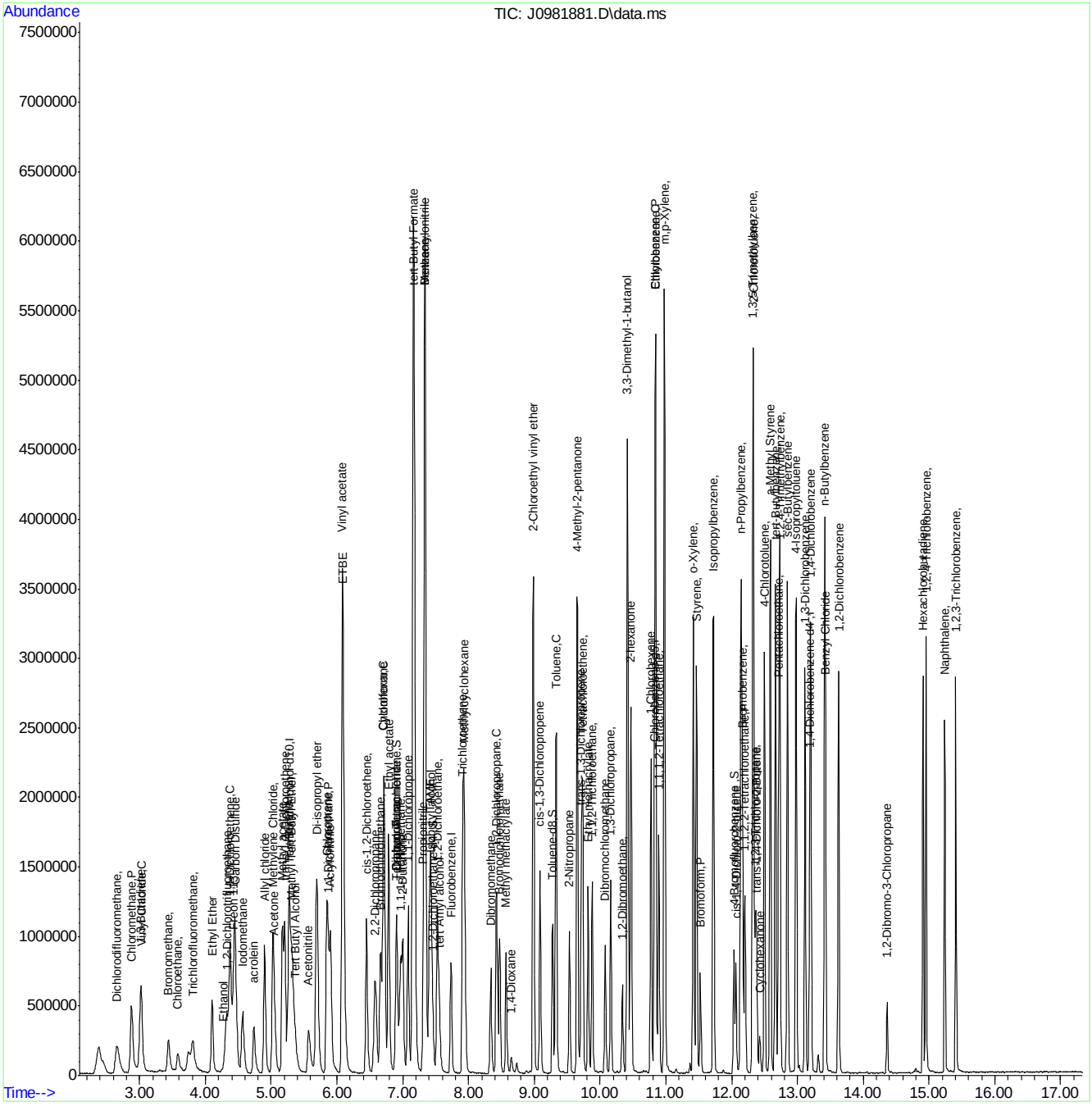
7

SGS ACCUTEST FA39742

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\123016\
Data File : J0981881.D
Acq On : 30 Dec 2016 2:48 pm
Operator : melissam
Sample : ic5529-6 Inst : MSVOA6
Misc : MS35465,VJ5529,,,,,
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Dec 30 15:49:46 2016
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Dec 30 13:30:44 2016
Response via : Initial Calibration



MSJ123016.M Tue Jan 03 10:01:37 2017 Page: 4

Manual Integration Approval Summary

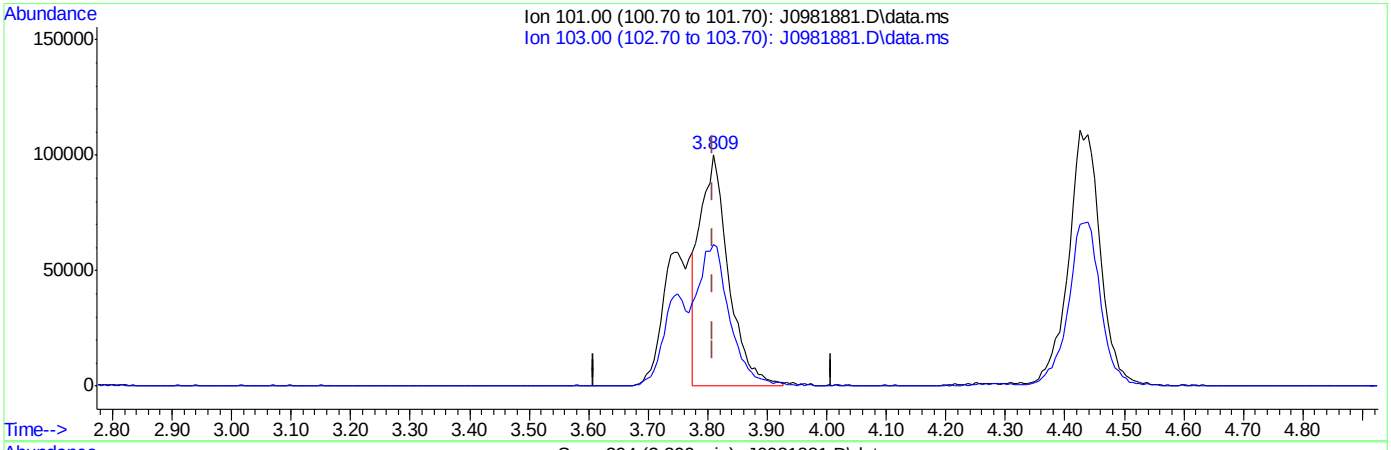
Sample Number:	VJ5529-IC5529	**Method:**	SW846 8260B
Lab FileID:	J0981881.D	**Analyst approved:**	01/03/17 10:07 Darshna Patel
Injection Time:	12/30/16 14:48	**Supervisor approved:**	01/03/17 15:48 Juan Garcia

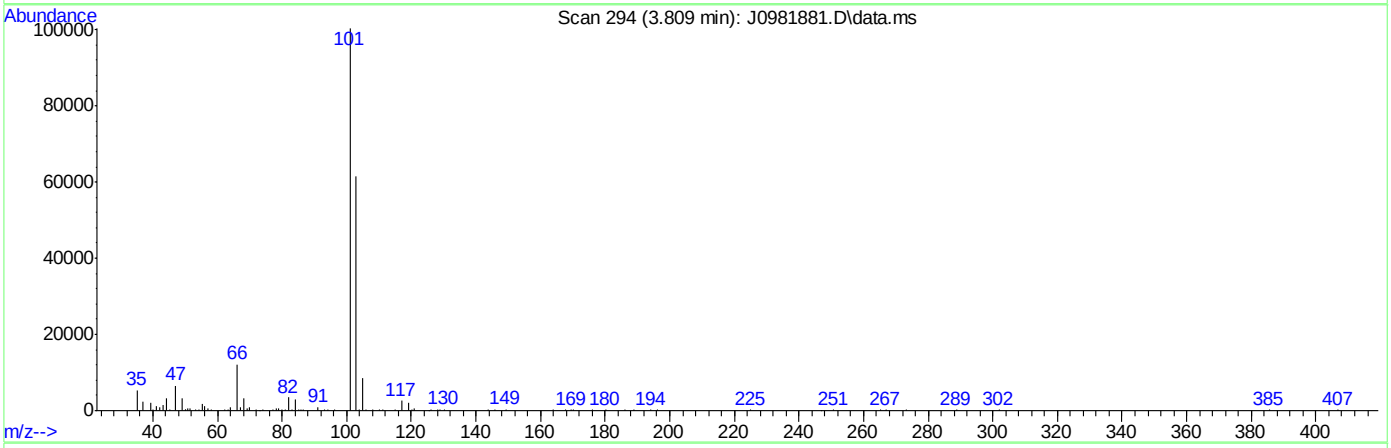
Parameter	CAS	Sig#	R.T. (min.)	Reason
Trichlorofluoromethane	75-69-4		3.81	Split peak
Ethyl Alcohol	64-17-5		4.27	Poor instrument integration
Carbon Tetrachloride	56-23-5		6.91	Overlapping peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\123016\
Data File : J0981881.D
Acq On : 30 Dec 2016 2:48 pm
Operator : melissam
Sample : ic5529-6 Inst : MSVOA6
Misc : MS35465,VJ5529,,,,,
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Dec 30 15:44:01 2016
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Dec 30 13:30:44 2016
Response via : Initial Calibration





TIC: J0981881.D\data.ms

(8) Trichlorofluoromethane ( )

3.809min (+0.000) 19.20ug/L

response 335949

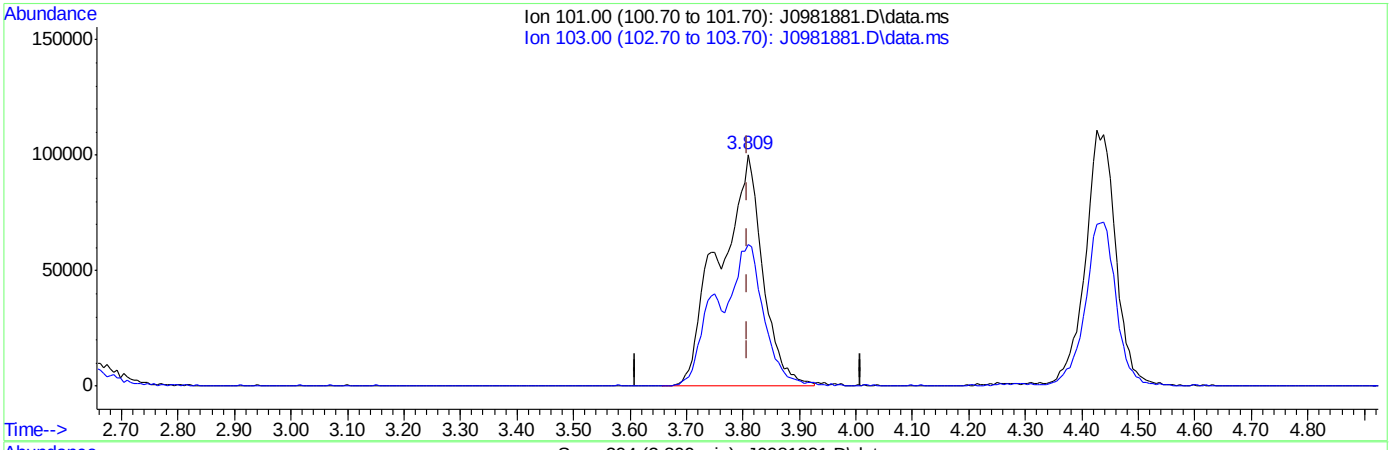
Ion	Exp%	Act%
101.00	100	100
103.00	61.00	60.55
0.00	0.00	0.00
0.00	0.00	0.00

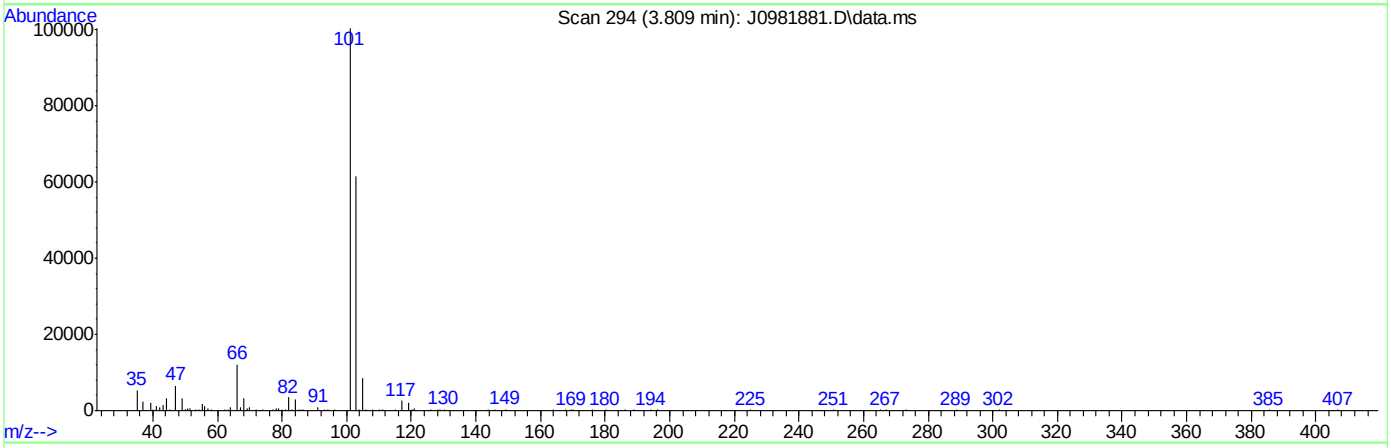
SGS ACCUTEST FA39742

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\123016\
Data File : J0981881.D
Acq On : 30 Dec 2016 2:48 pm
Operator : melissam
Sample : ic5529-6 Inst : MSVOA6
Misc : MS35465,VJ5529,,,,,
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Dec 30 15:44:01 2016
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Dec 30 13:30:44 2016
Response via : Initial Calibration





TIC: J0981881.D\data.ms

(8) Trichlorofluoromethane ( )

3.809min (+0.000) 31.05ug/L m

response 533080

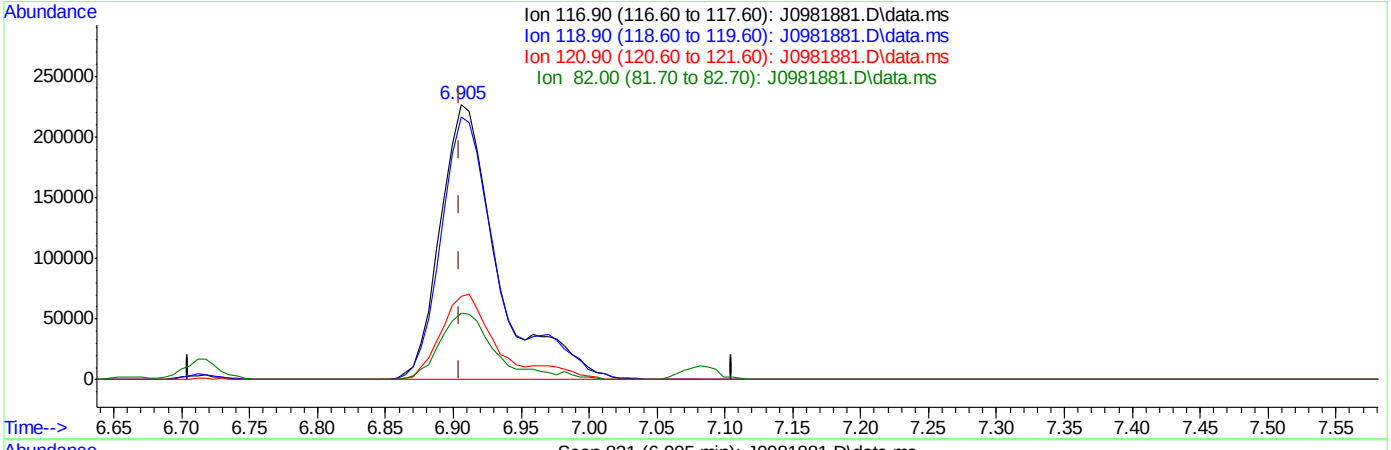
Ion	Exp%	Act%
101.00	100	100
103.00	61.00	61.38
0.00	0.00	0.00
0.00	0.00	0.00

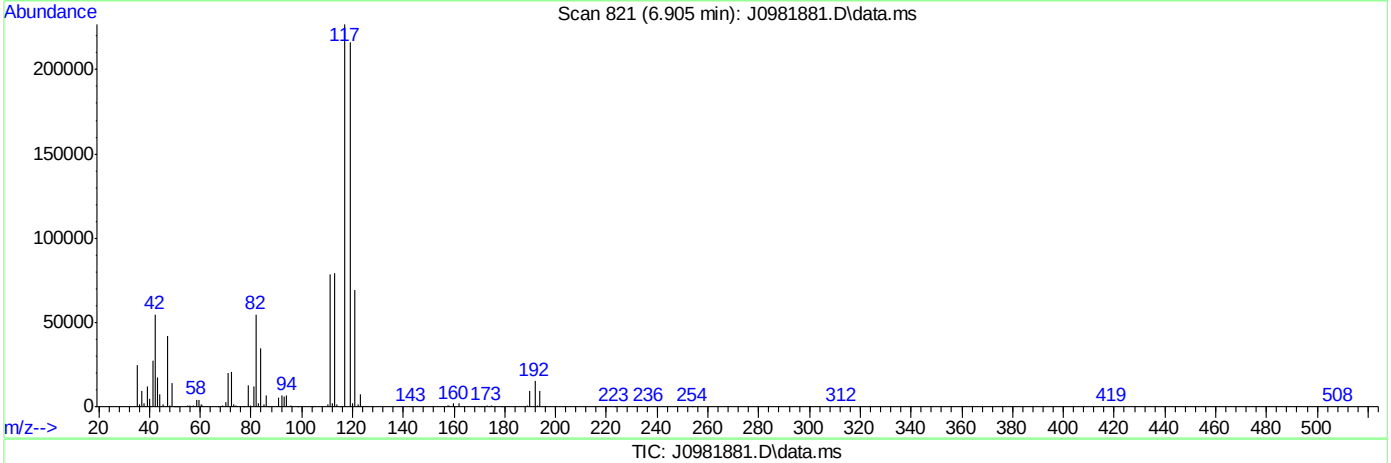
SGS ACCUTEST FA39742

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\123016\
Data File : J0981881.D
Acq On : 30 Dec 2016 2:48 pm
Operator : melissam
Sample : ic5529-6 Inst : MSVOA6
Misc : MS35465,VJ5529,,,,,
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Dec 30 15:44:01 2016
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Dec 30 13:30:44 2016
Response via : Initial Calibration





(37) Carbon Tetrachloride ( )

6.905min (+0.000) 58.90ug/L

response 663994

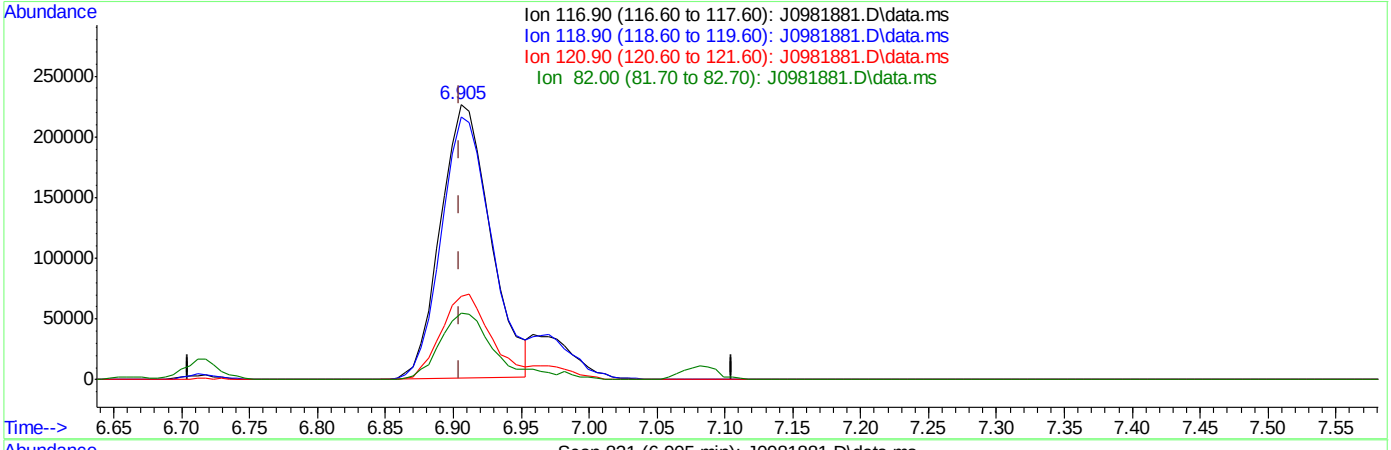
Ion	Exp%	Act%
116.90	100	100
118.90	92.50	95.26
120.90	28.60	30.49
82.00	22.10	24.12

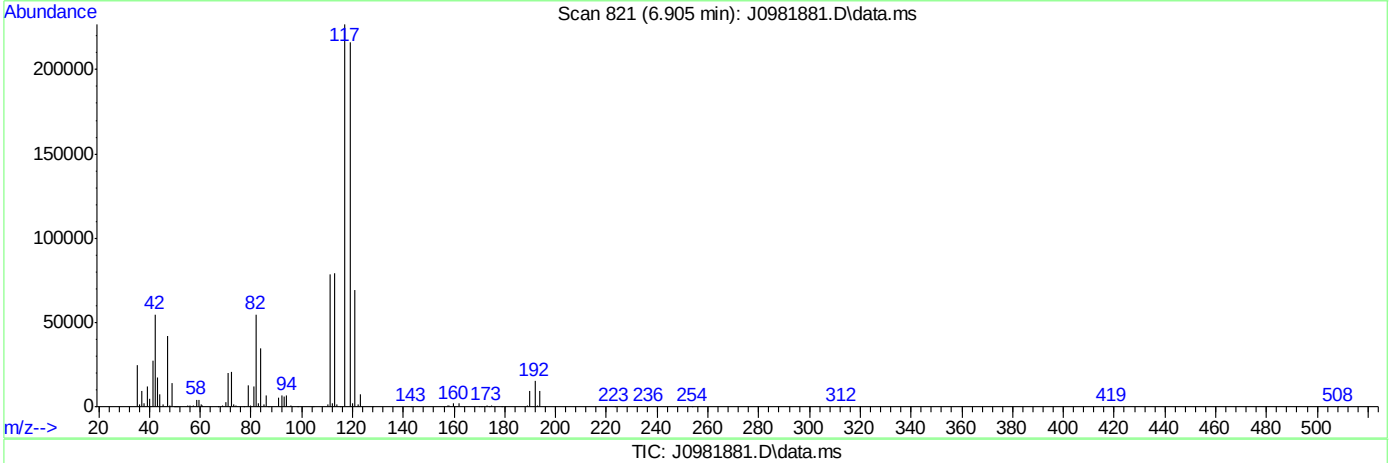
SGS ACCUTEST FA39742

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\123016\
Data File : J0981881.D
Acq On : 30 Dec 2016 2:48 pm
Operator : melissam
Sample : ic5529-6 Inst : MSVOA6
Misc : MS35465,VJ5529,,,,,
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Dec 30 15:44:01 2016
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Dec 30 13:30:44 2016
Response via : Initial Calibration





TIC: J0981881.D\data.ms

(37) Carbon Tetrachloride ( )

6.905min (+0.000) 50.97ug/L m

response 574607

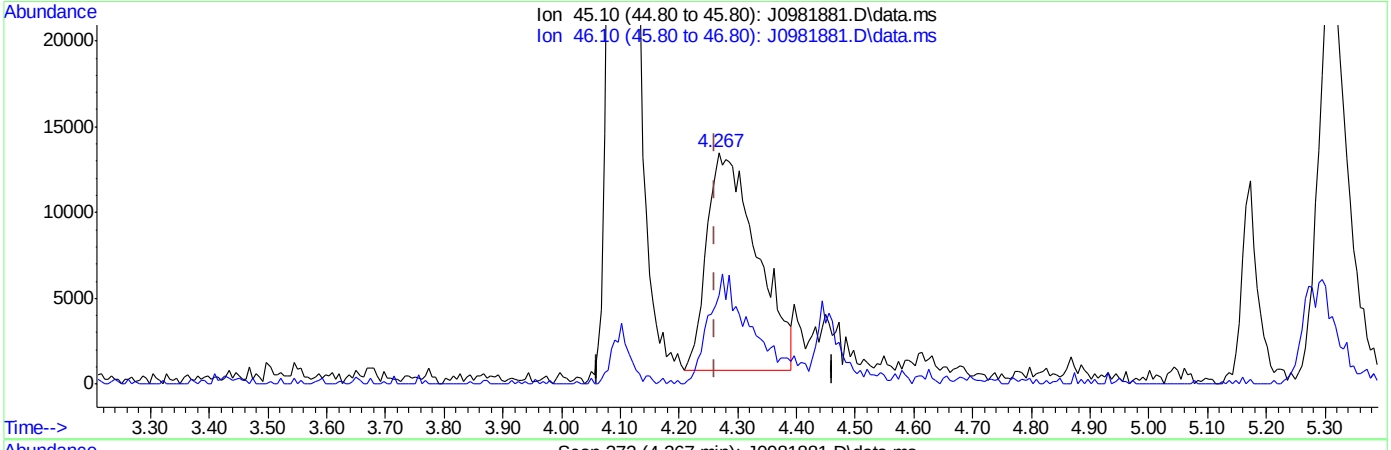
Ion	Exp%	Act%
116.90	100	100
118.90	92.50	95.26
120.90	28.60	30.49
82.00	22.10	24.12

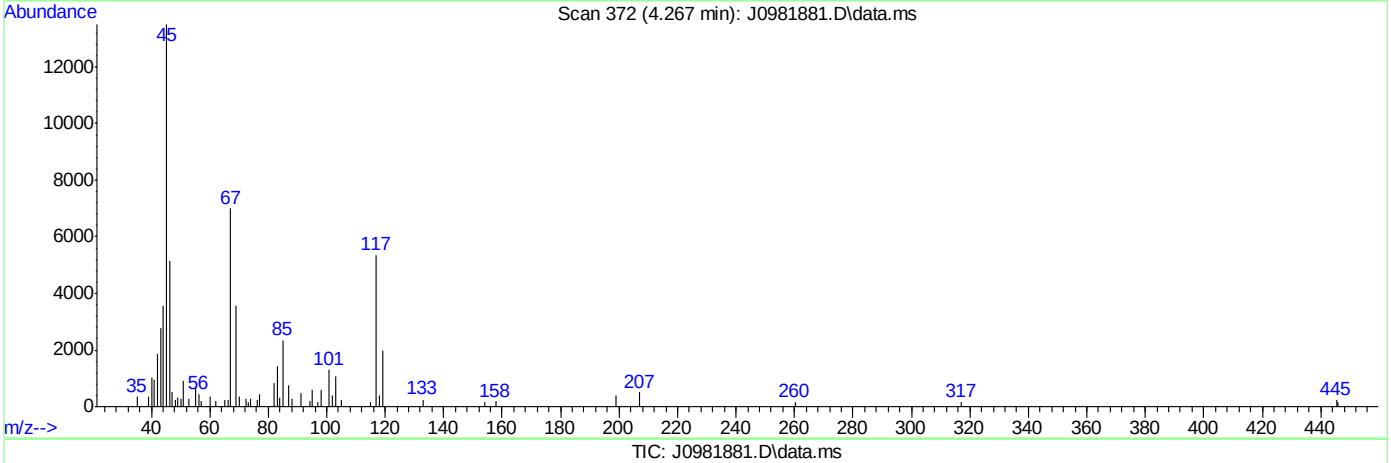
SGS ACCUTEST FA39742

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\123016\
Data File : J0981881.D
Acq On : 30 Dec 2016 2:48 pm
Operator : melissam
Sample : ic5529-6 Inst : MSVOA6
Misc : MS35465,VJ5529,,,,,
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Dec 30 15:44:01 2016
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Dec 30 13:30:44 2016
Response via : Initial Calibration





TIC: J0981881.D\data.ms

(107) Ethanol

4.267min (+0.006) 881.10ug/L

response 75073

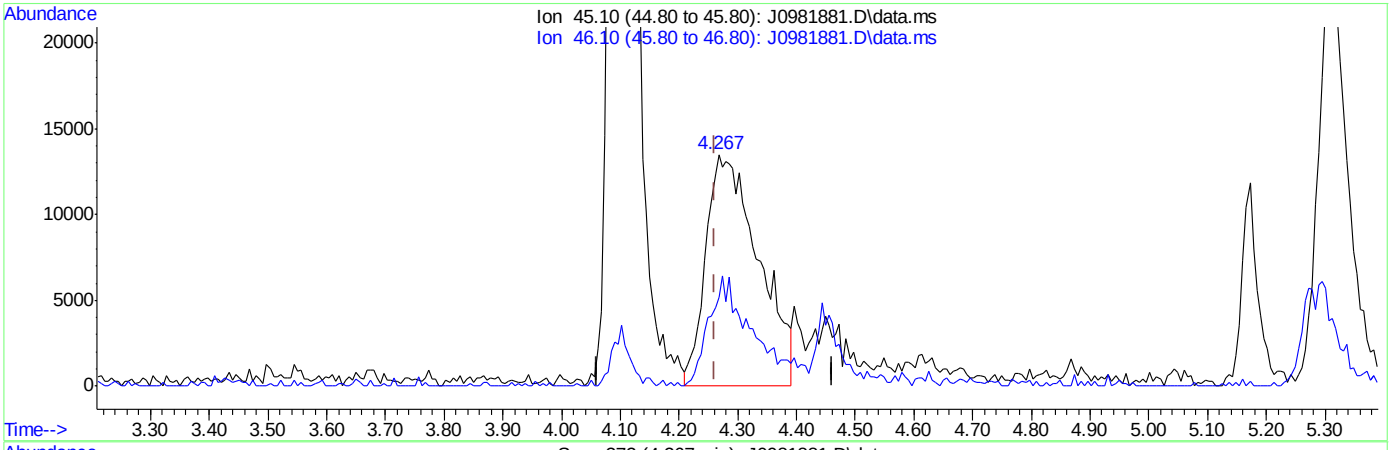
Ion	Exp%	Act%
45.10	100	100
46.10	42.10	40.58
0.00	0.00	0.00
0.00	0.00	0.00

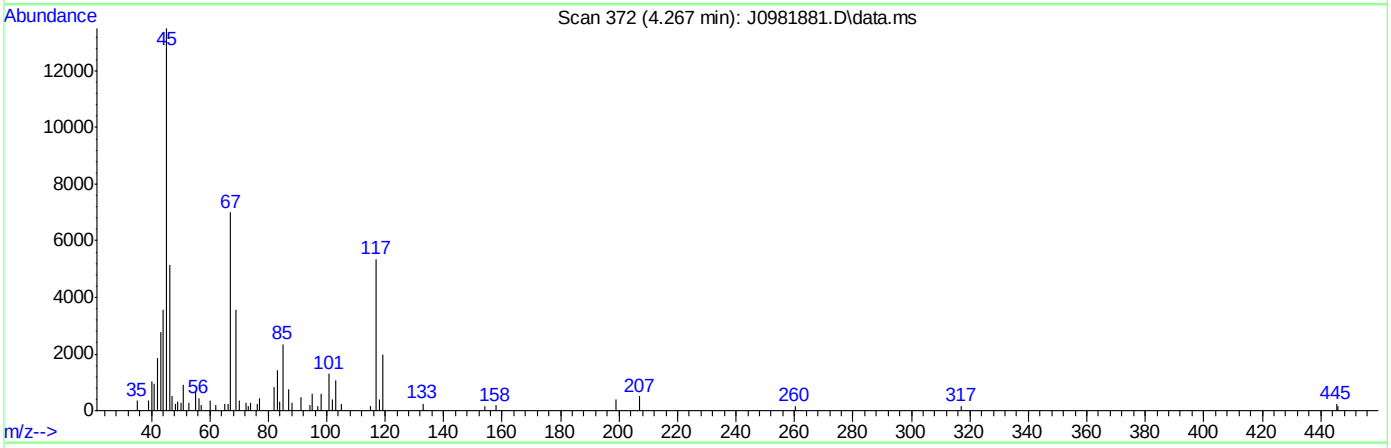
SGS ACCUTEST FA39742

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\123016\
Data File : J0981881.D
Acq On : 30 Dec 2016 2:48 pm
Operator : melissam
Sample : ic5529-6 Inst : MSVOA6
Misc : MS35465,VJ5529,,,,,
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Dec 30 15:44:01 2016
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Dec 30 13:30:44 2016
Response via : Initial Calibration





TIC: J0981881.D\data.ms

(107) Ethanol

4.267min (+0.006) 1002.28ug/L m

response 83817

Ion	Exp%	Act%
45.10	100	100
46.10	42.10	38.17
0.00	0.00	0.00
0.00	0.00	0.00

SGS ACCUTEST FA39742

J0981882.D

Manual Integrations APPROVED (compounds with "m" flag)
Juan Garcia
01/03/17 15:48

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\123016\
Data File : J0981882.D
Acq On : 30 Dec 2016 3:11 pm
Operator : melissam
Sample : ic5529-7 Inst : MSVOA6
Misc : MS35465,VJ5529,,,,,
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Dec 30 15:50:14 2016
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Dec 30 13:30:44 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.734	96	705883	50.00	ug/L	0.00
56) Chlorobenzene-d5	10.824	117	488948	50.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	13.186	152	267830	50.00	ug/L	0.00
106) Tert Butyl Alcohol-d10	5.278	65	87809	250.00	ug/L	-0.01
System Monitoring Compounds						
36) Dibromofluoromethane	6.899	113	160033	39.59	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 79.18%#			
46) 1,2-Dichloroethane-d4	7.458	65	213887	37.90	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 75.80%#			
57) Toluene-d8	9.279	98	659965	54.45	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 108.90%			
79) 4-Bromofluorobenzene	12.035	95	274528	61.90	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 123.80%#			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.657	85	769112	92.41	ug/L	98
3) Chloromethane	2.875	50	1025979	83.80	ug/L	92
4) Vinyl Chloride	3.021	62	676034	63.22	ug/L	97
5) 1,3-Butadiene	3.010	54	429425	47.49	ug/L	95
6) Bromomethane	3.433	94	321503	47.31	ug/L	88
7) Chloroethane	3.574	64	214766	40.70	ug/L	90
8) Trichlorofluoromethane	3.803	101	761806m	42.73	ug/L	
9) Ethyl Ether	4.097	59	553308	73.64	ug/L	99
10) 1,2-Dichlorotrifluoroe...	4.326	67	725082	74.40	ug/L	93
11) 1,1-Dichloroethene	4.373	61	1013551	80.69	ug/L	94
12) Freon 113	4.432	101	622148	73.95	ug/L	95
13) Carbon Disulfide	4.443	76	2092204	79.91	ug/L	94
14) Iodomethane	4.561	142	1063778	78.38	ug/L	100
15) Allyl chloride	4.896	41	1175352	83.52	ug/L	88
16) Methylene Chloride	5.019	49	1016506	79.32	ug/L	88
17) Acetone	5.049	58	274563	401.69	ug/L	93
18) Methyl acetate	5.172	74	453287	423.67	ug/L #	77
19) trans-1,2-Dichloroethene	5.201	61	970509	86.10	ug/L	94
20) Hexane	5.272	56	649524	78.54	ug/L	94
21) Methyl Tert Butyl Ether	5.313	73	1924843	92.16	ug/L	89
22) Acetonitrile	5.566	40	431553	794.70	ug/L	89
23) Di-isopropyl ether	5.695	45	2557699	85.43	ug/L	98
24) Chloroprene	5.842	53	1132149	80.88	ug/L	92
25) 1,1-Dichloroethane	5.871	63	1182316	85.81	ug/L	96
26) Acrylonitrile	5.901	53	1221011	430.13	ug/L	94
27) ETBE	6.094	59	2343409	92.15	ug/L	98
28) Vinyl acetate	6.083	43	6099574	360.87	ug/L	98
29) cis-1,2-Dichloroethene	6.447	96	715252	97.54	ug/L	94
30) 2,2-Dichloropropane	6.576	77	985003	84.12	ug/L	95
31) Bromochloromethane	6.658	128	323081	79.73	ug/L	93
32) Cyclohexane	6.705	56	1329283	90.76	ug/L	93
33) Chloroform	6.711	83	1115808	73.26	ug/L	98
34) Ethyl acetate	6.782	43	2896095	394.58	ug/L	96

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\123016\
Data File : J0981882.D
Acq On : 30 Dec 2016 3:11 pm
Operator : melissam
Sample : ic5529-7 Inst : MSVOA6
Misc : MS35465,VJ5529,,,,,
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Dec 30 15:50:14 2016
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Dec 30 13:30:44 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
35) Tetrahydrofuran	6.894	42	199374	88.99 ug/L	98
37) Carbon Tetrachloride	6.905	117	851398m	71.38 ug/L	
38) 1,1,1-Trichloroethane	6.964	97	1038852	80.81 ug/L	100
39) 2-Butanone	6.999	43	1377765	413.14 ug/L	99
40) 1,1-Dichloropropene	7.076	75	857586	83.85 ug/L	89
41) tert-Butyl Formate	7.164	59	6009199	1012.38 ug/L #	79
42) Propionitrile	7.311	54	870205	846.88 ug/L	92
43) Methacrylonitrile	7.340	41	3179265	736.00 ug/L	97
44) Benzene	7.334	78	2071648	81.24 ug/L	90
45) TAME	7.411	73	1936750	96.40 ug/L	91
47) 1,2-Dichloroethane	7.522	62	893196	72.25 ug/L	97
48) Trichloroethene	7.910	95	648775	85.73 ug/L	94
49) Methylcyclohexane	7.933	83	1186077	88.78 ug/L	95
50) Dibromomethane	8.333	93	399051	85.43 ug/L	93
51) 1,2-Dichloropropane	8.427	63	701906	90.03 ug/L	90
52) Bromodichloromethane	8.468	83	846648	82.07 ug/L	95
53) Methyl methacrylate	8.568	41	612265	88.51 ug/L	91
54) 2-Chloroethyl vinyl ether	8.985	63	1946369	421.80 ug/L	93
55) cis-1,3-Dichloropropene	9.085	75	1058701	88.92 ug/L	92
58) Toluene	9.332	91	2333442	98.37 ug/L	93
59) 2-Nitropropane	9.532	41	760967	393.27 ug/L	89
60) 4-Methyl-2-pentanone	9.649	43	2873227	430.12 ug/L	90
61) trans-1,3-Dichloropropene	9.714	75	901541	92.80 ug/L	95
62) Tetrachloroethene	9.731	166	722410	97.11 ug/L	95
63) Ethyl methacrylate	9.820	69	848136	98.10 ug/L	92
64) 1,1,2-Trichloroethane	9.878	83	455902	90.46 ug/L	95
65) Dibromochloromethane	10.078	129	632386	85.81 ug/L	94
66) 1,3-Dichloropropane	10.160	76	992397	95.21 ug/L	93
67) 1,2-Dibromoethane	10.337	107	565715	99.86 ug/L	99
68) 2-hexanone	10.466	43	2075030	450.21 ug/L	88
69) 1-Chlorohexane	10.777	91	936730	100.52 ug/L	87
70) Ethylbenzene	10.842	91	2474699	90.74 ug/L	98
71) Chlorobenzene	10.842	112	1609859	88.55 ug/L	94
72) 1,1,1,2-Tetrachloroethane	10.895	131	617967	86.09 ug/L	91
73) m,p-Xylene	10.977	91	3713448	178.15 ug/L	87
74) o-Xylene	11.418	91	2364110	92.93 ug/L	93
75) Styrene	11.465	104	1737630	97.28 ug/L	98
76) Bromoform	11.523	173	451502	111.33 ug/L	96
77) Isopropylbenzene	11.723	105	2702374	85.91 ug/L	94
80) cis-1,4-Dichloro-2-butene	12.064	53	217236	96.62 ug/L #	79
81) n-Propylbenzene	12.140	91	3178276	106.58 ug/L	89
82) Bromobenzene	12.164	156	730435	101.28 ug/L	93
83) 1,1,2,2-Tetrachloroethane	12.199	83	723790	96.45 ug/L	91
84) 1,3,5-Trimethylbenzene	12.323	105	2180902	93.66 ug/L	90
85) 2-Chlorotoluene	12.334	91	2175627	98.77 ug/L	93
86) trans-1,4-Dichloro-2-B...	12.381	53	226975	93.18 ug/L #	76
87) 1,2,3-Trichloropropane	12.364	110	208927	95.58 ug/L	97
88) Cyclohexanone	12.428	55	148637	918.96 ug/L	92
89) 4-Chlorotoluene	12.499	91	2199344	105.44 ug/L	93
90) a-Methyl Styrene	12.587	118	1464332	107.51 ug/L	95

SGS ACCUTEST FA39742

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\123016\
Data File : J0981882.D
Acq On : 30 Dec 2016 3:11 pm
Operator : melissam
Sample : ic5529-7 Inst : MSVOA6
Misc : MS35465,VJ5529,,,,,
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Dec 30 15:50:14 2016
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Dec 30 13:30:44 2016
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
91)	tert-Butylbenzene	12.663	91	1449376	94.95	ug/L		97
92)	1,2,4-Trimethylbenzene	12.734	105	2144514	91.32	ug/L		89
93)	Pentachloroethane	12.716	167	453623	83.28	ug/L		97
94)	sec-Butylbenzene	12.845	105	2945321	95.17	ug/L		92
95)	4-Isopropyltoluene	12.981	119	2390922	95.84	ug/L		96
96)	1,3-Dichlorobenzene	13.116	146	1476448	97.81	ug/L		96
97)	1,4-Dichlorobenzene	13.198	146	1480867	91.23	ug/L		94
98)	n-Butylbenzene	13.410	92	1503501	100.60	ug/L		88
99)	Benzyl Chloride	13.427	126	320690	107.05	ug/L	#	87
100)	1,2-Dichlorobenzene	13.627	146	1447273	95.78	ug/L		96
101)	1,2-Dibromo-3-Chloropr...	14.361	75	155654	96.06	ug/L		87
102)	Hexachlorobutadiene	14.908	225	658127	88.34	ug/L		89
103)	1,2,4-Trichlorobenzene	14.955	180	1059415	90.66	ug/L		93
104)	Naphthalene	15.237	128	2061258	98.40	ug/L		97
105)	1,2,3-Trichlorobenzene	15.407	180	993007	89.39	ug/L		94
107)	Ethanol	4.255	45	134822m	1690.52	ug/L		
108)	acrolein	4.737	56	603120	410.46	ug/L		92
109)	Tert Butyl Alcohol	5.360	59	681628	906.19	ug/L		95
110)	tert Amyl alcohol	7.552	59	562986	954.35	ug/L		90
111)	Isobutyl alcohol	7.434	42	425105	1539.10	ug/L	#	78
112)	1,4-Dioxane	8.650	88	125876	1956.90	ug/L		94
113)	3,3-Dimethyl-1-butanol	10.419	57	2822409	4629.11	ug/L		95

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

7.6.21

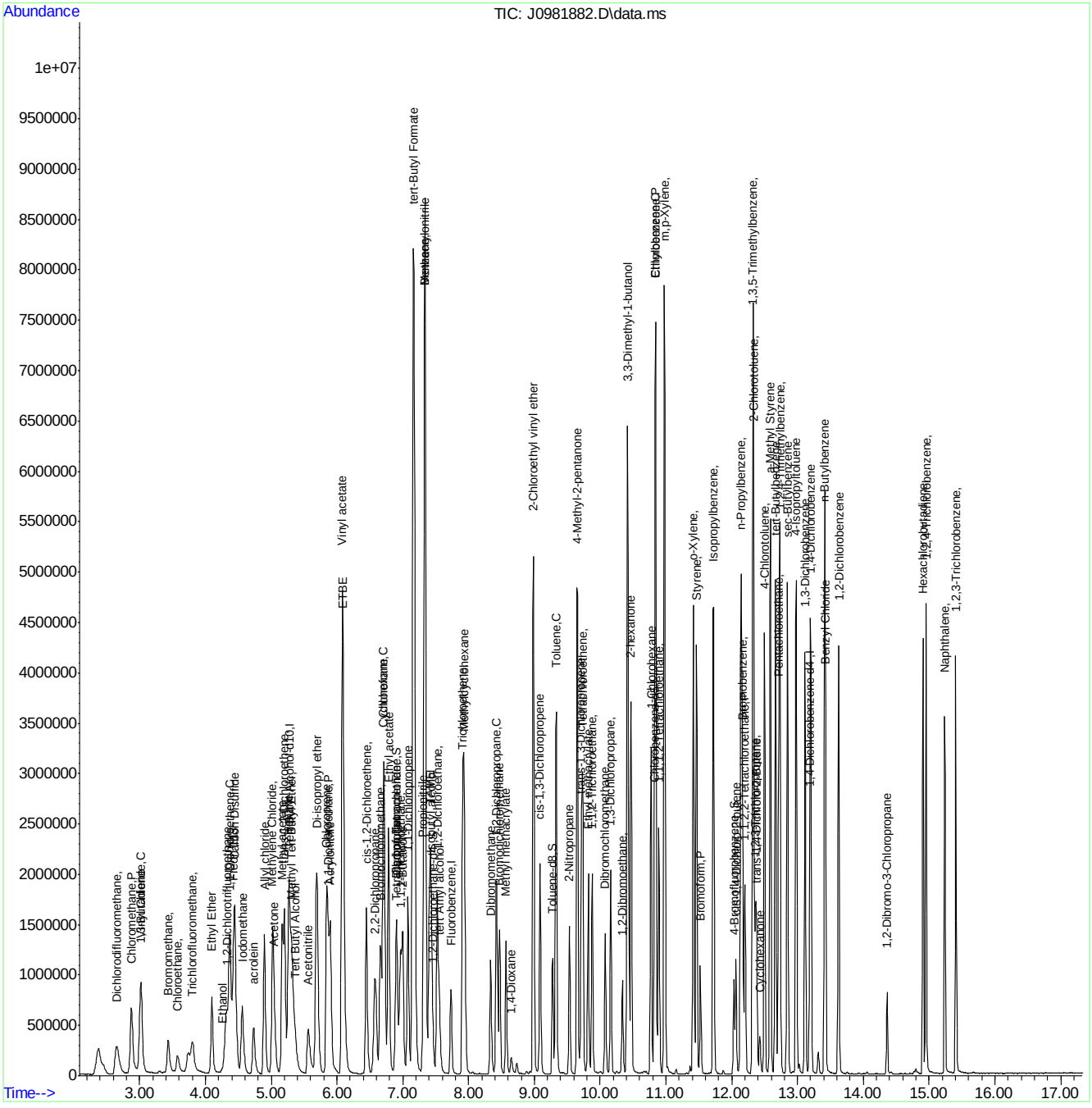
7

SGS ACCUTEST FA39742

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\123016\
Data File : J0981882.D
Acq On : 30 Dec 2016 3:11 pm
Operator : melissam
Sample : ic5529-7 Inst : MSVOA6
Misc : MS35465,VJ5529,,,,,
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Dec 30 15:50:14 2016
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Dec 30 13:30:44 2016
Response via : Initial Calibration



Manual Integration Approval Summary

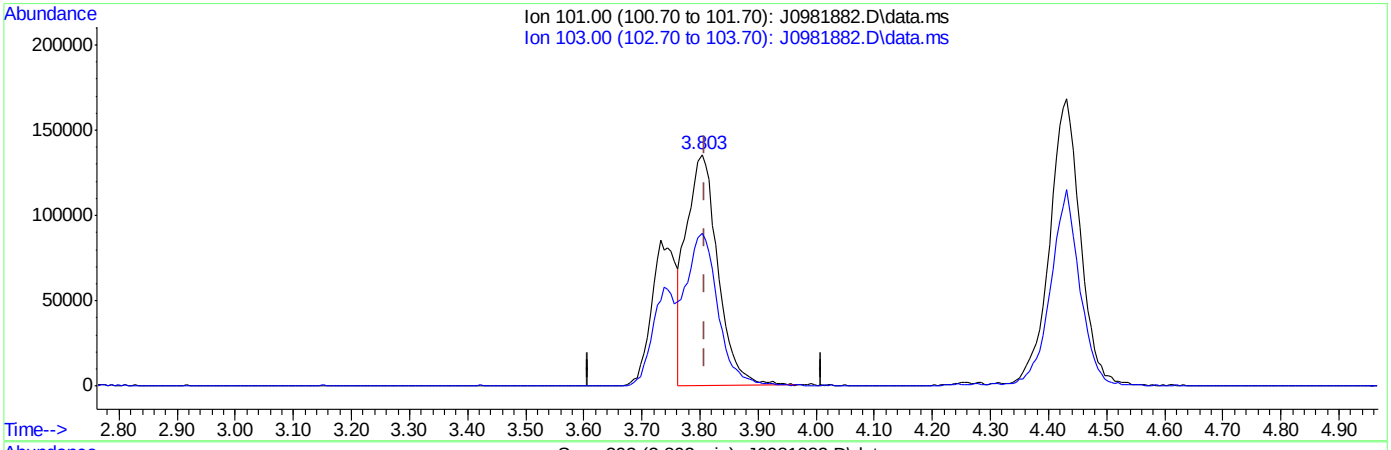
Sample Number:	VJ5529-IC5529	**Method:**	SW846 8260B
Lab FileID:	J0981882.D	**Analyst approved:**	01/03/17 10:07 Darshna Patel
Injection Time:	12/30/16 15:11	**Supervisor approved:**	01/03/17 15:48 Juan Garcia

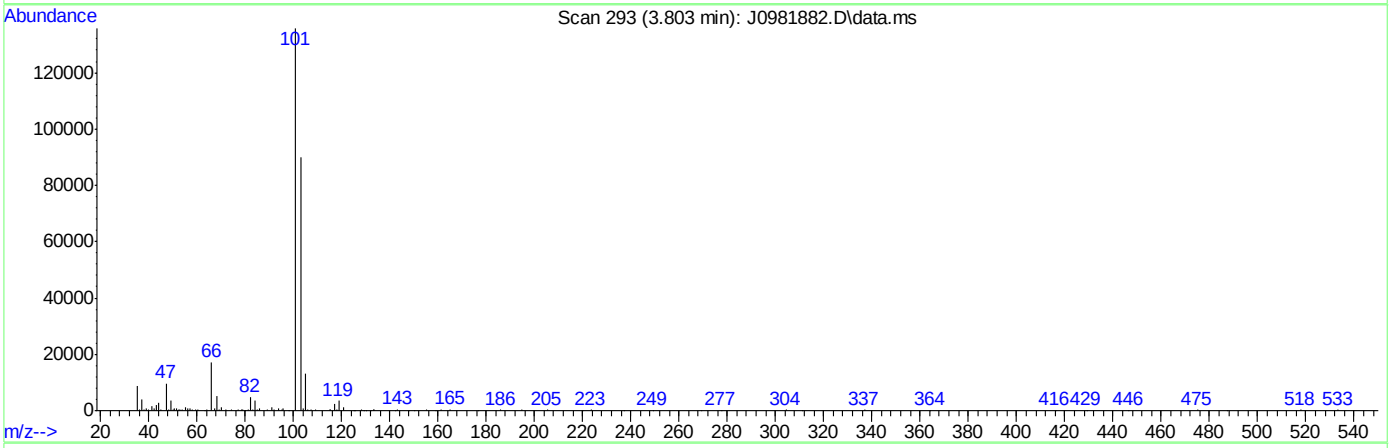
Parameter	CAS	Sig#	R.T. (min.)	Reason
Trichlorofluoromethane	75-69-4		3.80	Split peak
Ethyl Alcohol	64-17-5		4.26	Poor instrument integration
Carbon Tetrachloride	56-23-5		6.91	Overlapping peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\123016\
Data File : J0981882.D
Acq On : 30 Dec 2016 3:11 pm
Operator : melissam
Sample : ic5529-7 Inst : MSVOA6
Misc : MS35465,VJ5529,,,,,
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Dec 30 15:44:05 2016
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Dec 30 13:30:44 2016
Response via : Initial Calibration





TIC: J0981882.D\data.ms

(8) Trichlorofluoromethane ( )

3.803min (-0.006) 27.57ug/L

response 503683

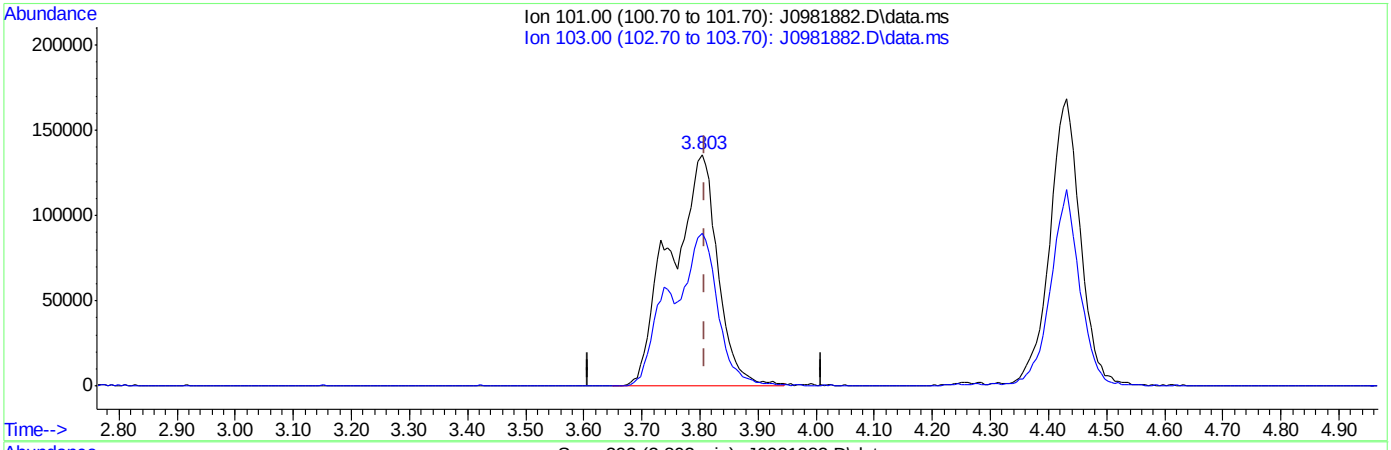
Ion	Exp%	Act%
101.00	100	100
103.00	61.00	66.00
0.00	0.00	0.00
0.00	0.00	0.00

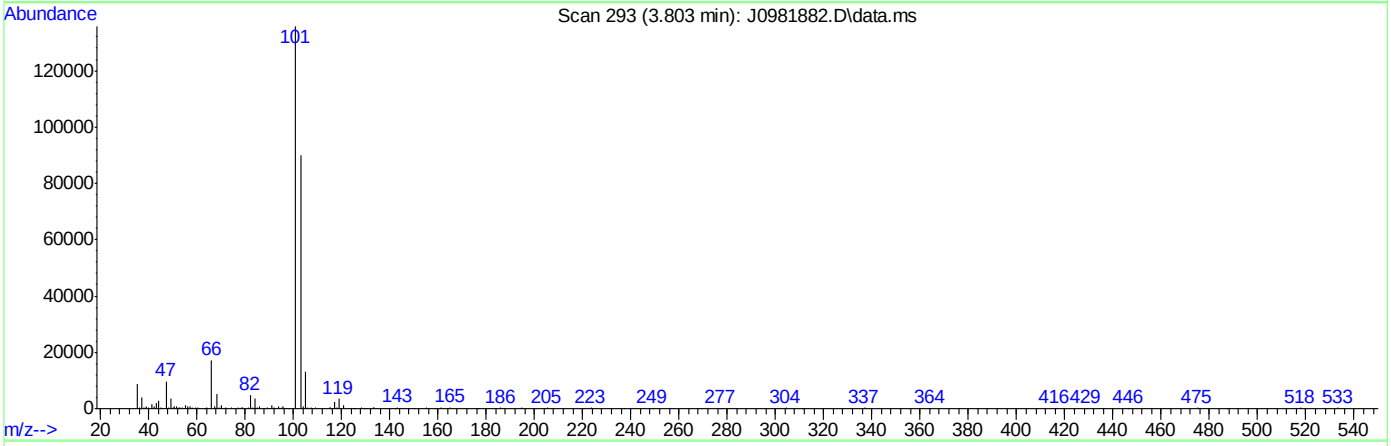
SGS ACCUTEST FA39742

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\123016\
Data File : J0981882.D
Acq On : 30 Dec 2016 3:11 pm
Operator : melissam
Sample : ic5529-7 Inst : MSVOA6
Misc : MS35465,VJ5529,,,,,
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Dec 30 15:44:05 2016
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Dec 30 13:30:44 2016
Response via : Initial Calibration





TIC: J0981882.D\data.ms

(8) Trichlorofluoromethane ( )

3.803min (-0.006) 42.73ug/L m

response 761806

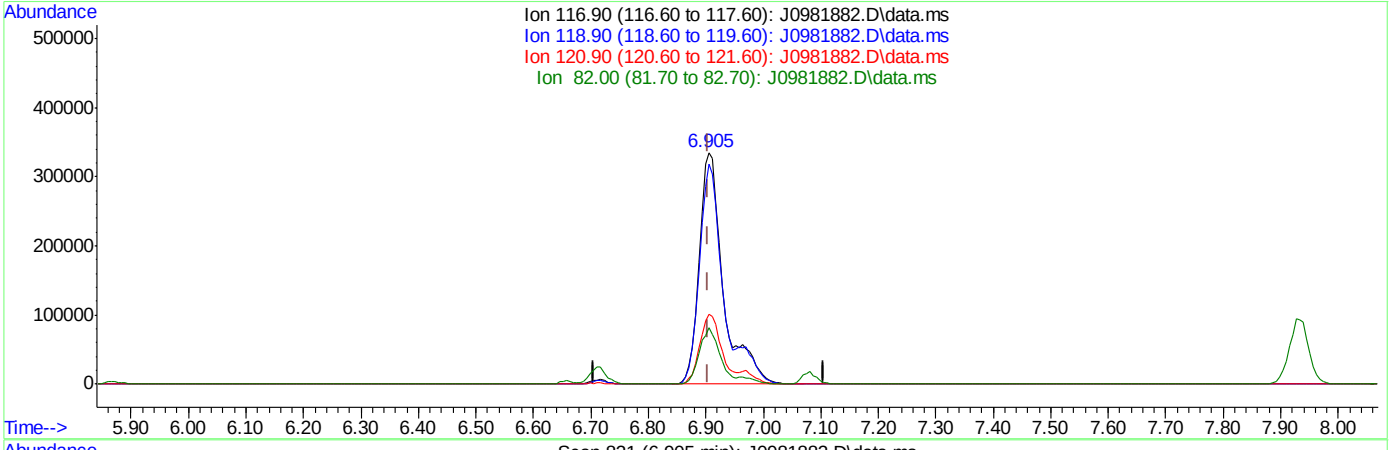
Ion	Exp%	Act%
101.00	100	100
103.00	61.00	66.20
0.00	0.00	0.00
0.00	0.00	0.00

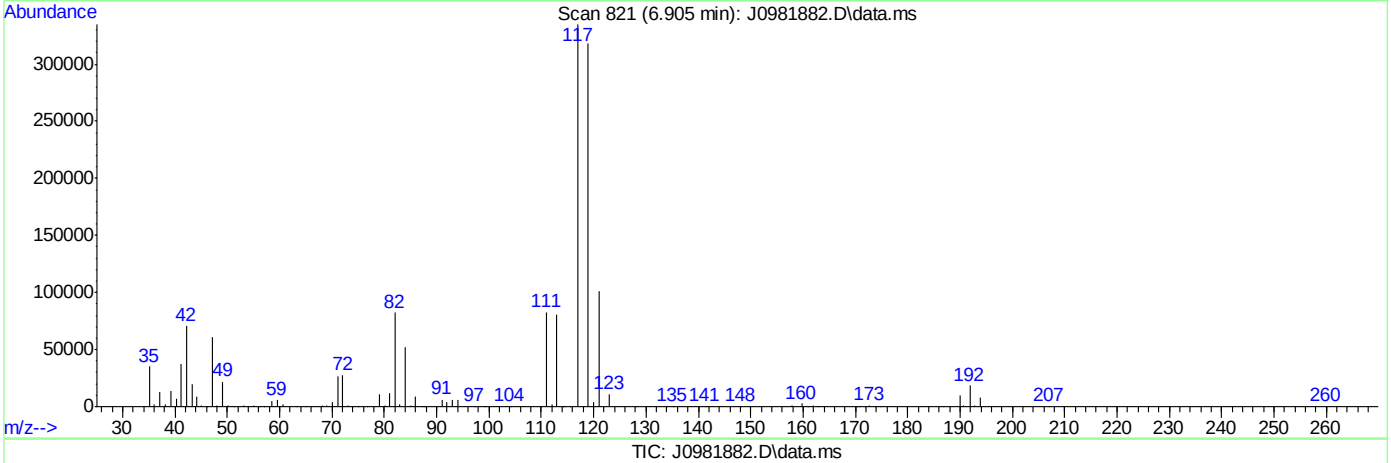
SGS ACCUTEST FA39742

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\123016\
Data File : J0981882.D
Acq On : 30 Dec 2016 3:11 pm
Operator : melissam
Sample : ic5529-7 Inst : MSVOA6
Misc : MS35465,VJ5529,,,,,
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Dec 30 15:44:05 2016
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Dec 30 13:30:44 2016
Response via : Initial Calibration





(37) Carbon Tetrachloride ( )

6.905min (+0.000) 82.79ug/L

response 987452

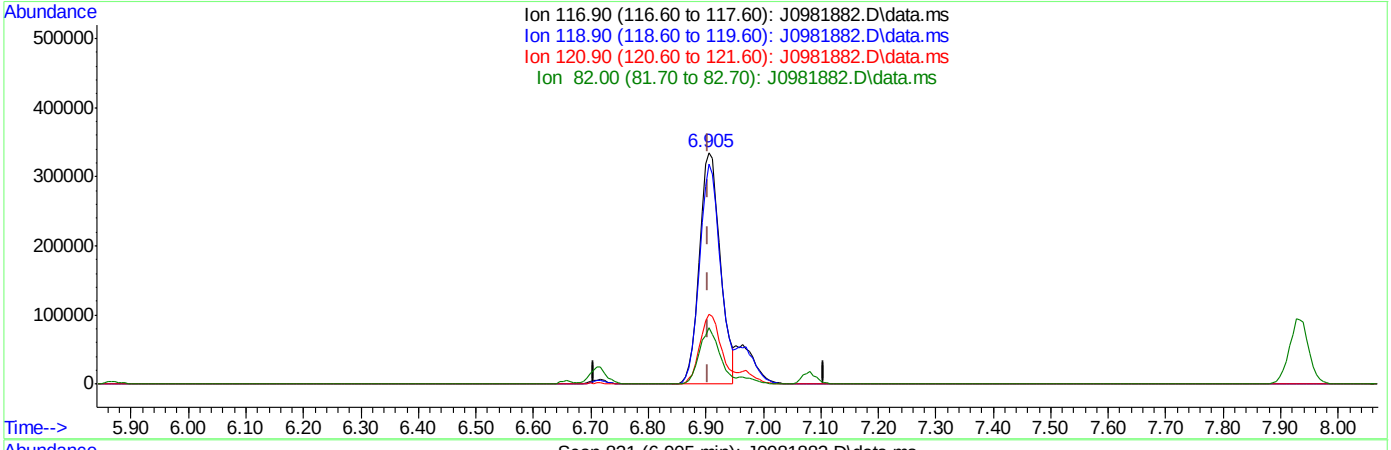
Ion	Exp%	Act%
116.90	100	100
118.90	92.50	95.05
120.90	28.60	30.08
82.00	22.10	24.60

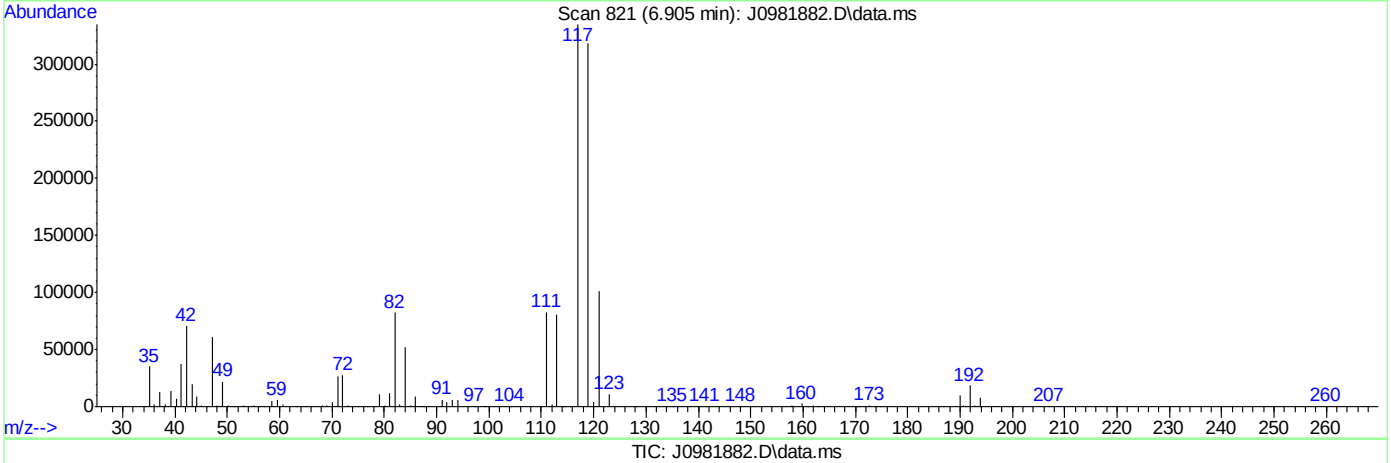
SGS ACCUTEST FA39742

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\123016\
Data File : J0981882.D
Acq On : 30 Dec 2016 3:11 pm
Operator : melissam
Sample : ic5529-7 Inst : MSVOA6
Misc : MS35465,VJ5529,,,,,
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Dec 30 15:44:05 2016
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Dec 30 13:30:44 2016
Response via : Initial Calibration





(37) Carbon Tetrachloride ( )

6.905min (+0.000) 71.38ug/L m

response 851398

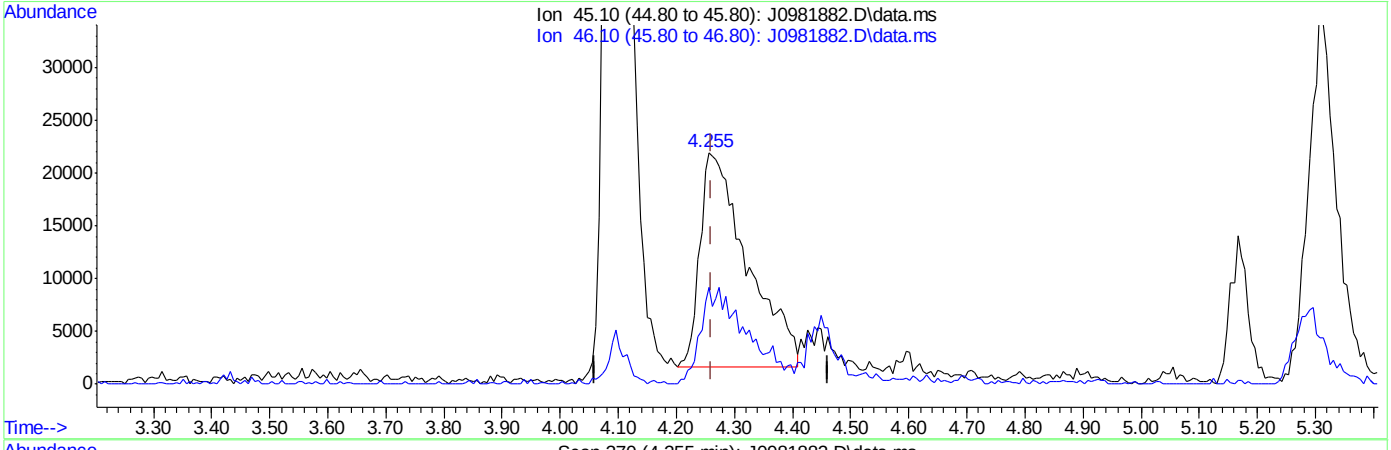
Ion	Exp%	Act%
116.90	100	100
118.90	92.50	95.05
120.90	28.60	30.08
82.00	22.10	24.60

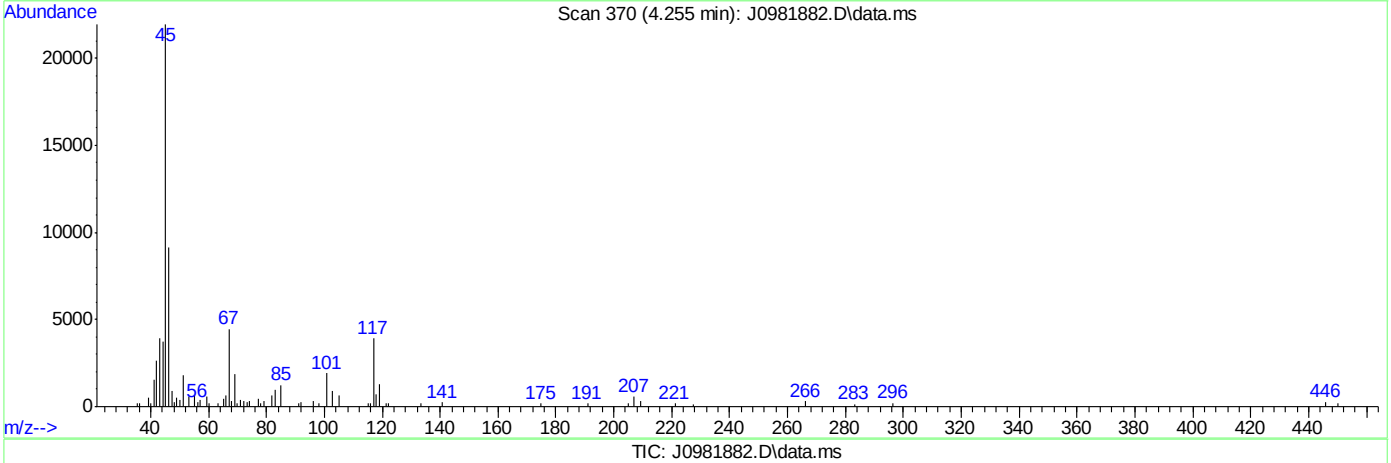
SGS ACCUTEST FA39742

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\123016\
Data File : J0981882.D
Acq On : 30 Dec 2016 3:11 pm
Operator : melissam
Sample : ic5529-7 Inst : MSVOA6
Misc : MS35465,VJ5529,,,,,
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Dec 30 15:44:05 2016
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Dec 30 13:30:44 2016
Response via : Initial Calibration





TIC: J0981882.D\data.ms

(107) Ethanol

4.255min (-0.006) 1350.16ug/L

response 114069

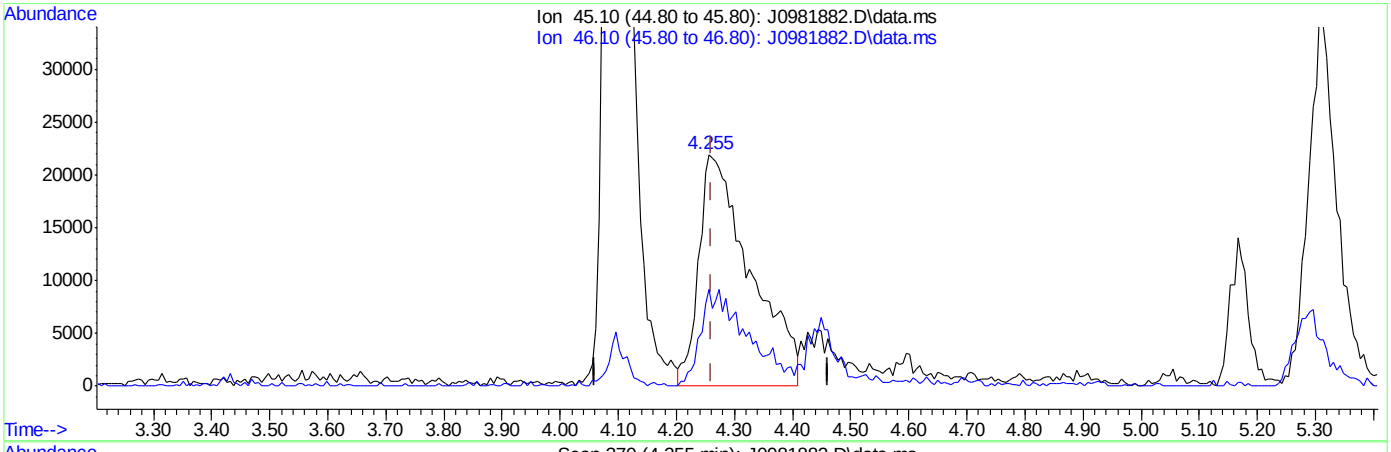
Ion	Exp%	Act%
45.10	100	100
46.10	42.10	45.21
0.00	0.00	0.00
0.00	0.00	0.00

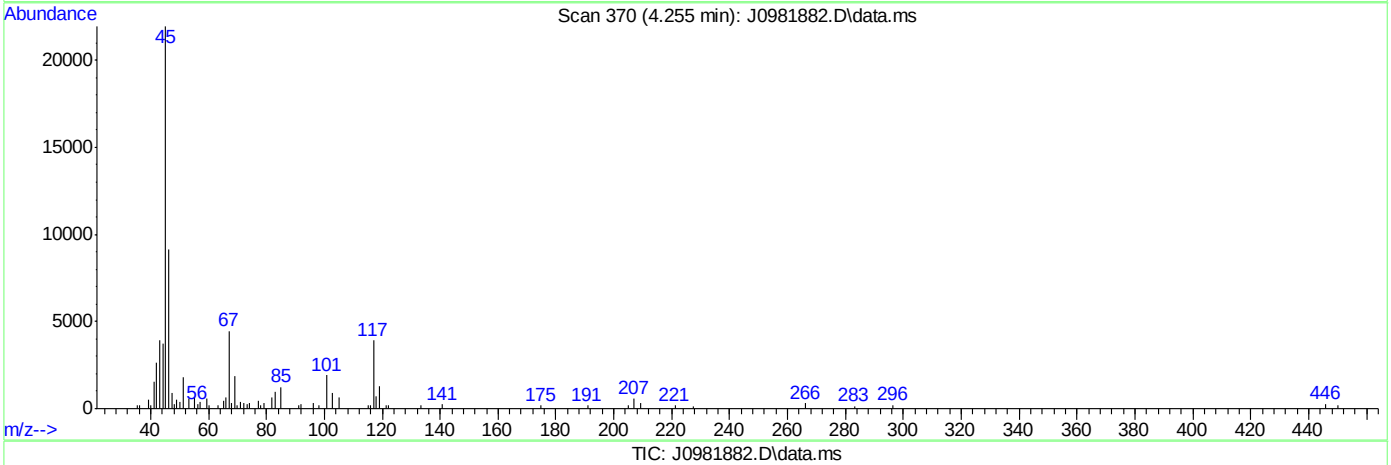
SGS ACCUTEST FA39742

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\123016\
Data File : J0981882.D
Acq On : 30 Dec 2016 3:11 pm
Operator : melissam
Sample : ic5529-7 Inst : MSVOA6
Misc : MS35465,VJ5529,,,,,
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Dec 30 15:44:05 2016
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Dec 30 13:30:44 2016
Response via : Initial Calibration





TIC: J0981882.D\data.ms

(107) Ethanol

4.255min (-0.006) 1690.52ug/L m

response 134822

Ion	Exp%	Act%
45.10	100	100
46.10	42.10	41.74
0.00	0.00	0.00
0.00	0.00	0.00

SGS ACCUTEST FA39742

Manual Integrations APPROVED (compounds with "m" flag)
Juan Garcia
01/03/17 15:48

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\123016\
Data File : J0981884.D
Acq On : 30 Dec 2016 3:58 pm
Operator : melissam
Sample : ICV5529-5 Inst : MSVOA6
Misc : MS35465,VJ5529,,,,,
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jan 03 10:00:23 2017
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jan 03 09:58:33 2017
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.728	96	660222	50.00	ug/L	0.00
56) Chlorobenzene-d5	10.824	117	482775	50.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	13.181	152	271962	50.00	ug/L	0.00
106) Tert Butyl Alcohol-d10	5.278	65	77309	250.00	ug/L	0.00
System Monitoring Compounds						
36) Dibromofluoromethane	6.900	113	162423	52.11	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 104.22%			
46) 1,2-Dichloroethane-d4	7.452	65	196660	46.92	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 93.84%			
57) Toluene-d8	9.279	98	617280	48.15	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 96.30%			
79) 4-Bromofluorobenzene	12.035	95	255085	47.02	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 94.04%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.646	85	294480	41.01	ug/L	94
3) Chloromethane	2.863	50	371738	35.73	ug/L	97
4) Vinyl Chloride	3.010	62	222126	35.17	ug/L	93
5) 1,3-Butadiene	2.981	54	1024	0.26	ug/L #	81
6) Bromomethane	3.427	94	121750	36.02	ug/L	91
7) Chloroethane	3.580	64	90090	37.88	ug/L	86
8) Trichlorofluoromethane	3.803	101	330857m	43.09	ug/L	
9) Ethyl Ether	4.097	59	204124	36.44	ug/L	95
10) 1,2-Dichlorotrifluoroe...	4.314	67	269123	38.85	ug/L	97
11) 1,1-Dichloroethene	4.367	61	400571	41.58	ug/L	97
12) Freon 113	4.432	101	234674	40.10	ug/L	96
13) Carbon Disulfide	4.444	76	790788	39.32	ug/L	100
14) Iodomethane	4.555	142	444149	43.40	ug/L	93
15) Allyl chloride	4.896	41	424464	36.76	ug/L	97
16) Methylene Chloride	5.019	49	398399	39.13	ug/L	98
17) Acetone	5.049	58	105176	197.98	ug/L #	80
18) Methyl acetate	5.166	74	182666	218.44	ug/L #	89
19) trans-1,2-Dichloroethene	5.202	61	389246	41.59	ug/L	95
20) Hexane	5.266	56	236950	39.22	ug/L	95
21) Methyl Tert Butyl Ether	5.307	73	779166	41.94	ug/L	96
22) Acetonitrile	5.572	40	168666	383.73	ug/L #	85
23) Di-isopropyl ether	5.689	45	1059603	42.45	ug/L	97
24) Chloroprene	5.842	53	409483	38.13	ug/L	99
25) 1,1-Dichloroethane	5.871	63	515592	46.06	ug/L	89
26) Acrylonitrile	5.901	53	491611	210.26	ug/L	97
27) ETBE	6.095	59	874263	37.97	ug/L	97
28) Vinyl acetate	6.083	43	2852547	198.80	ug/L	99
29) cis-1,2-Dichloroethene	6.447	96	299281	43.29	ug/L	93
30) 2,2-Dichloropropane	6.576	77	435765	45.30	ug/L	99
31) Bromochloromethane	6.659	128	137428	43.35	ug/L	90
32) Cyclohexane	6.706	56	481330	38.31	ug/L	97
33) Chloroform	6.712	83	468070	41.21	ug/L	99
34) Ethyl acetate	6.782	43	1135751	196.51	ug/L	98

SGS ACCUTEST FA39742

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\123016\
Data File : J0981884.D
Acq On : 30 Dec 2016 3:58 pm
Operator : melissam
Sample : ICV5529-5 Inst : MSVOA6
Misc : MS35465,VJ5529,,,,,
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jan 03 10:00:23 2017
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jan 03 09:58:33 2017
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
35) Tetrahydrofuran	6.894	42	77804	40.95	ug/L	97
37) Carbon Tetrachloride	6.905	117	372892m	47.46	ug/L	
38) 1,1,1-Trichloroethane	6.964	97	407038	40.96	ug/L	96
39) 2-Butanone	6.999	43	589045	212.61	ug/L	94
40) 1,1-Dichloropropene	7.076	75	344304	42.85	ug/L	98
41) tert-Butyl Formate	7.164	59	991094	150.17	ug/L	97
42) Propionitrile	7.305	54	328645	380.61	ug/L	88
43) Methacrylonitrile	7.334	41	1430411	394.25	ug/L	99
44) Benzene	7.329	78	1012410	47.96	ug/L	87
45) TAME	7.411	73	801986	42.69	ug/L	92
47) 1,2-Dichloroethane	7.522	62	377495	43.34	ug/L	99
48) Trichloroethene	7.910	95	274523	44.55	ug/L	92
49) Methylcyclohexane	7.934	83	472501	42.84	ug/L	96
50) Dibromomethane	8.333	93	172075	46.09	ug/L	93
51) 1,2-Dichloropropane	8.421	63	268408	40.96	ug/L	95
52) Bromodichloromethane	8.468	83	360740	44.15	ug/L	100
53) Methyl methacrylate	8.568	41	236260	39.07	ug/L	96
54) 2-Chloroethyl vinyl ether	8.985	63	784386	201.72	ug/L	99
55) cis-1,3-Dichloropropene	9.085	75	457229	45.63	ug/L	97
58) Toluene	9.332	91	1103704	46.14	ug/L	98
59) 2-Nitropropane	9.532	41	322309	204.30	ug/L	98
60) 4-Methyl-2-pentanone	9.649	43	1231038	189.49	ug/L	99
61) trans-1,3-Dichloropropene	9.714	75	414587	47.21	ug/L	99
62) Tetrachloroethene	9.732	166	310218	42.70	ug/L	98
63) Ethyl methacrylate	9.814	69	307776	37.03	ug/L	97
64) 1,1,2-Trichloroethane	9.879	83	198110	44.75	ug/L	93
65) Dibromochloromethane	10.078	129	275966	46.49	ug/L	98
66) 1,3-Dichloropropane	10.161	76	413089	42.16	ug/L	98
67) 1,2-Dibromoethane	10.337	107	256015	46.36	ug/L	98
68) 2-hexanone	10.466	43	842895	194.13	ug/L	97
69) 1-Chlorohexane	10.772	91	381753	42.96	ug/L	98
70) Ethylbenzene	10.842	91	1238675	46.17	ug/L	98
71) Chlorobenzene	10.842	112	741144	45.03	ug/L	97
72) 1,1,1,2-Tetrachloroethane	10.889	131	293292	46.45	ug/L	99
73) m,p-Xylene	10.977	91	1900956	87.54	ug/L	93
74) o-Xylene	11.418	91	1063858	43.25	ug/L	99
75) Styrene	11.465	104	838372	46.39	ug/L	98
76) Bromoform	11.524	173	196082	47.10	ug/L	94
77) Isopropylbenzene	11.718	105	1269994	44.32	ug/L	98
80) cis-1,4-Dichloro-2-butene	12.064	53	93707	43.01	ug/L	94
81) n-Propylbenzene	12.141	91	1509068	41.80	ug/L	98
82) Bromobenzene	12.158	156	363307	48.28	ug/L	99
83) 1,1,2,2-Tetrachloroethane	12.199	83	311351	39.45	ug/L	99
84) 1,3,5-Trimethylbenzene	12.323	105	1107765	46.29	ug/L	97
85) 2-Chlorotoluene	12.329	91	1031805	42.01	ug/L	94
86) trans-1,4-Dichloro-2-B...	12.382	53	95750	39.91	ug/L	97
87) 1,2,3-Trichloropropane	12.364	110	92379	45.34	ug/L	92
88) Cyclohexanone	12.429	55	59335	190.42	ug/L	94
89) 4-Chlorotoluene	12.493	91	992532	42.34	ug/L	94
91) tert-Butylbenzene	12.664	91	640882	41.08	ug/L	98

SGS ACCUTEST FA39742

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\123016\
Data File : J0981884.D
Acq On : 30 Dec 2016 3:58 pm
Operator : melissam
Sample : ICV5529-5 Inst : MSVOA6
Misc : MS35465,VJ5529,,,,,
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jan 03 10:00:23 2017
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jan 03 09:58:33 2017
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
92) 1,2,4-Trimethylbenzene	12.734	105	1103548	46.55	ug/L	99
93) Pentachloroethane	12.716	167	208060	44.79	ug/L	86
94) sec-Butylbenzene	12.846	105	1412413	43.50	ug/L	100
95) 4-Isopropyltoluene	12.981	119	1231089	48.11	ug/L	97
96) 1,3-Dichlorobenzene	13.116	146	702829	45.85	ug/L	99
97) 1,4-Dichlorobenzene	13.198	146	696149	43.76	ug/L	97
98) n-Butylbenzene	13.410	92	704337	45.12	ug/L	97
99) Benzyl Chloride	13.427	126	142983	44.26	ug/L	99
100) 1,2-Dichlorobenzene	13.627	146	673851	43.65	ug/L	97
101) 1,2-Dibromo-3-Chloropr...	14.362	75	62670	40.13	ug/L	91
102) Hexachlorobutadiene	14.908	225	277058	42.57	ug/L	98
103) 1,2,4-Trichlorobenzene	14.955	180	520109	47.51	ug/L	94
104) Naphthalene	15.237	128	1085230	49.79	ug/L	99
105) 1,2,3-Trichlorobenzene	15.407	180	493977	48.28	ug/L	99
107) Ethanol	4.285	45	52065m	888.58	ug/L	
108) acrolein	4.731	56	272974	253.99	ug/L	97
109) Tert Butyl Alcohol	5.354	59	342490	546.85	ug/L	87
110) tert Amyl alcohol	7.552	59	206822	406.62	ug/L	91
111) Isobutyl alcohol	7.428	42	166624	810.97	ug/L #	86
112) 1,4-Dioxane	8.645	88	49794	921.24	ug/L	99
113) 3,3-Dimethyl-1-butanol	10.413	57	1188672	2251.46	ug/L	99

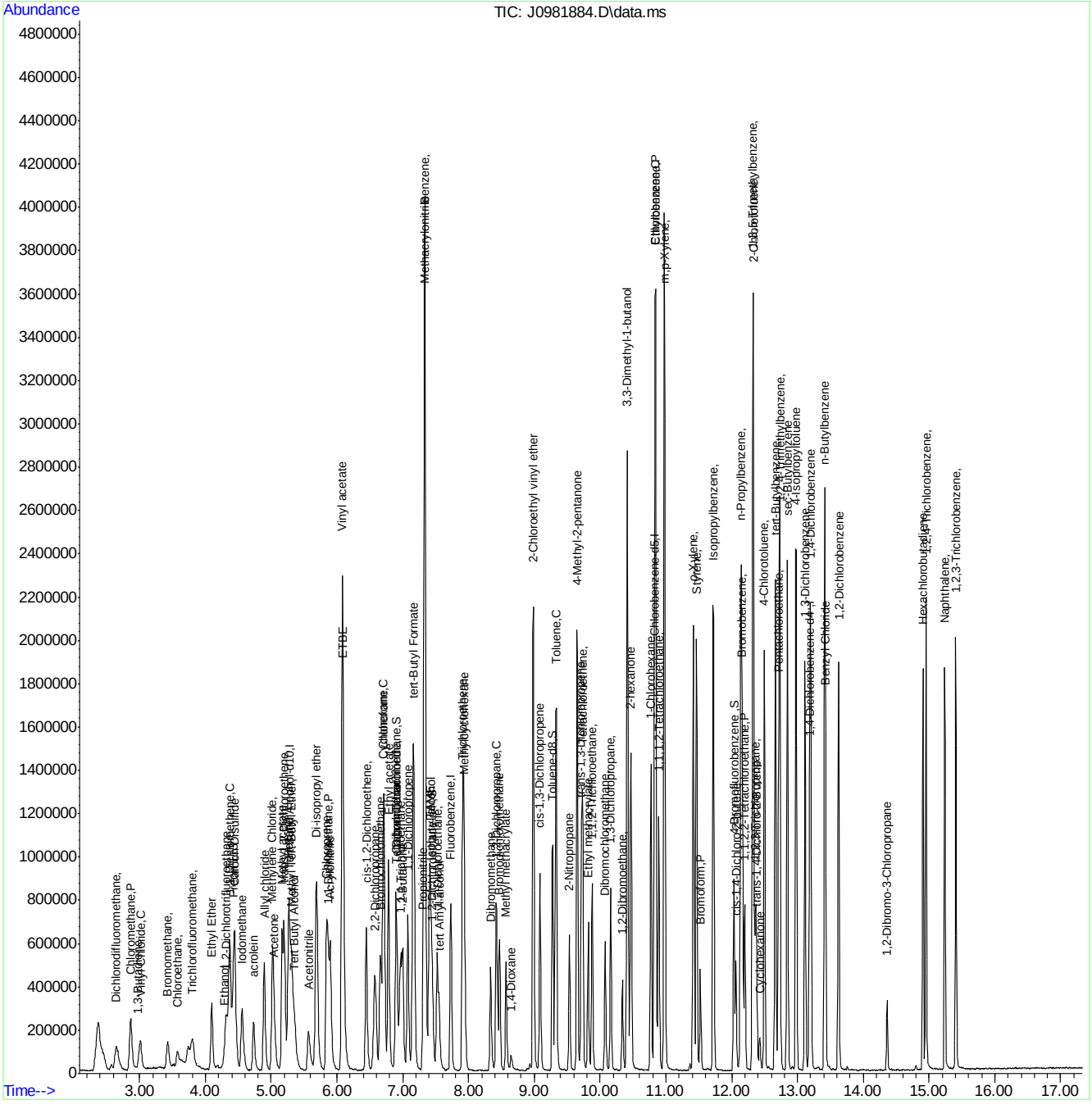
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST FA39742

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\123016\
Data File : J0981884.D
Acq On : 30 Dec 2016 3:58 pm
Operator : melissam
Sample : ICV5529-5 Inst : MSVOA6
Misc : MS35465,VJ5529,,,,,
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jan 03 10:00:23 2017
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jan 03 09:58:33 2017
Response via : Initial Calibration



SGS ACCUTEST FA39742

Manual Integration Approval Summary

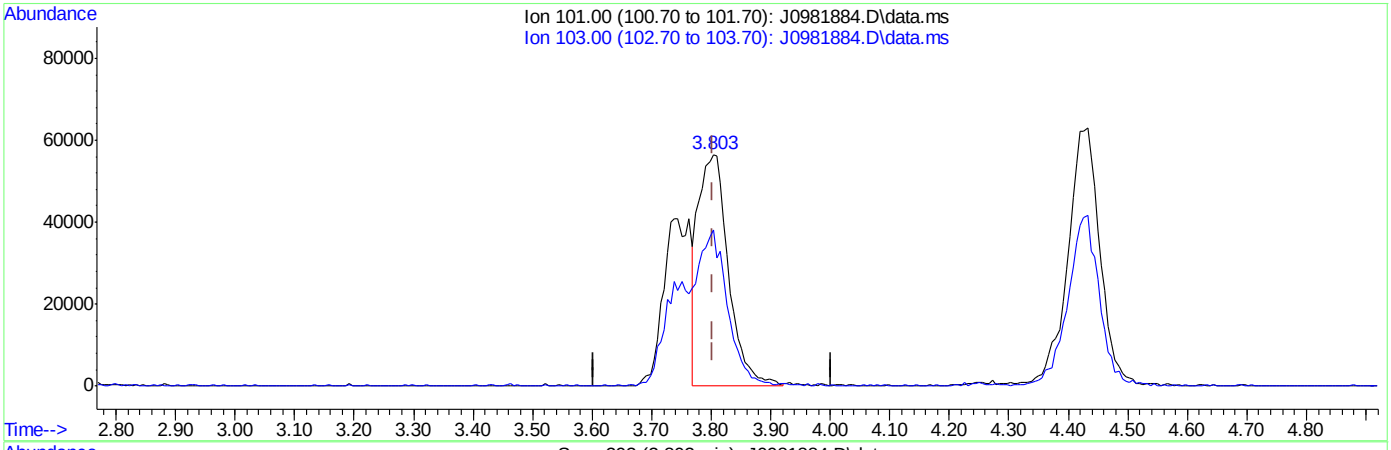
Sample Number:	VJ5529-ICV5529	**Method:**	SW846 8260B
Lab FileID:	J0981884.D	**Analyst approved:**	01/03/17 10:07 Darshna Patel
Injection Time:	12/30/16 15:58	**Supervisor approved:**	01/03/17 15:48 Juan Garcia

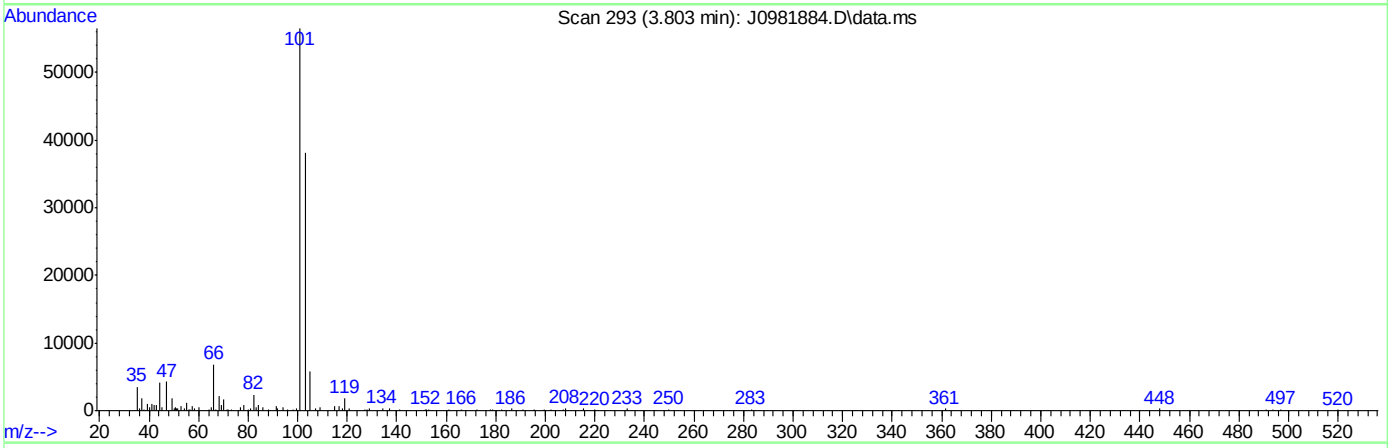
Parameter	CAS	Sig#	R.T. (min.)	Reason
Trichlorofluoromethane	75-69-4		3.80	Split peak
Ethyl Alcohol	64-17-5		4.28	Poor instrument integration
Carbon Tetrachloride	56-23-5		6.91	Overlapping peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\123016\
Data File : J0981884.D
Acq On : 30 Dec 2016 3:58 pm
Operator : melissam
Sample : ICV5529-5 Inst : MSVOA6
Misc : MS35465,VJ5529,,,,,
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jan 03 06:58:06 2017
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jan 03 06:58:04 2017
Response via : Initial Calibration





(8) Trichlorofluoromethane ( )

3.803min (+0.000) 25.65ug/L

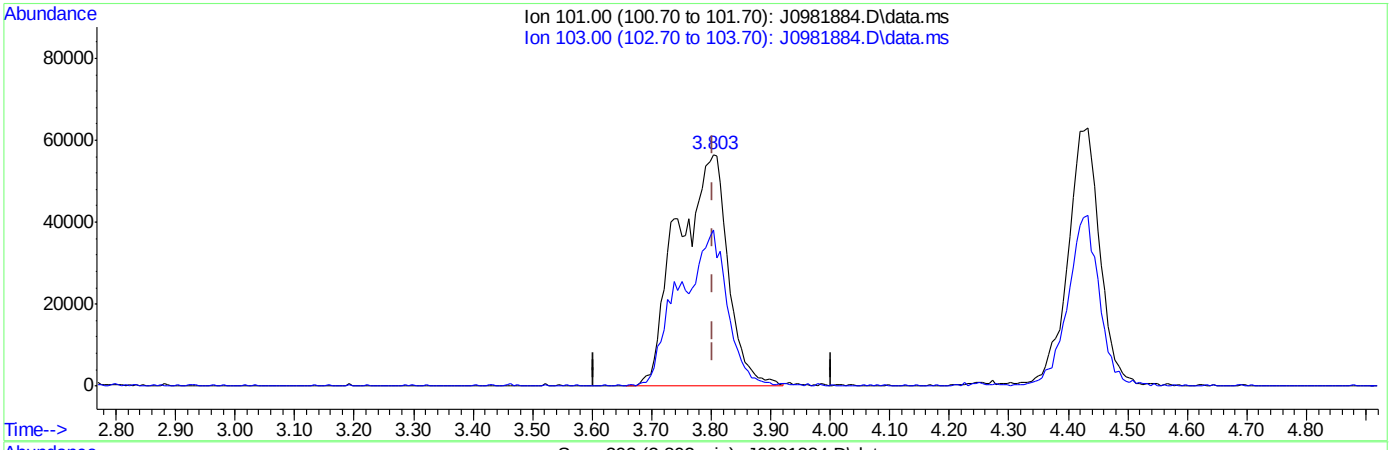
response 199489

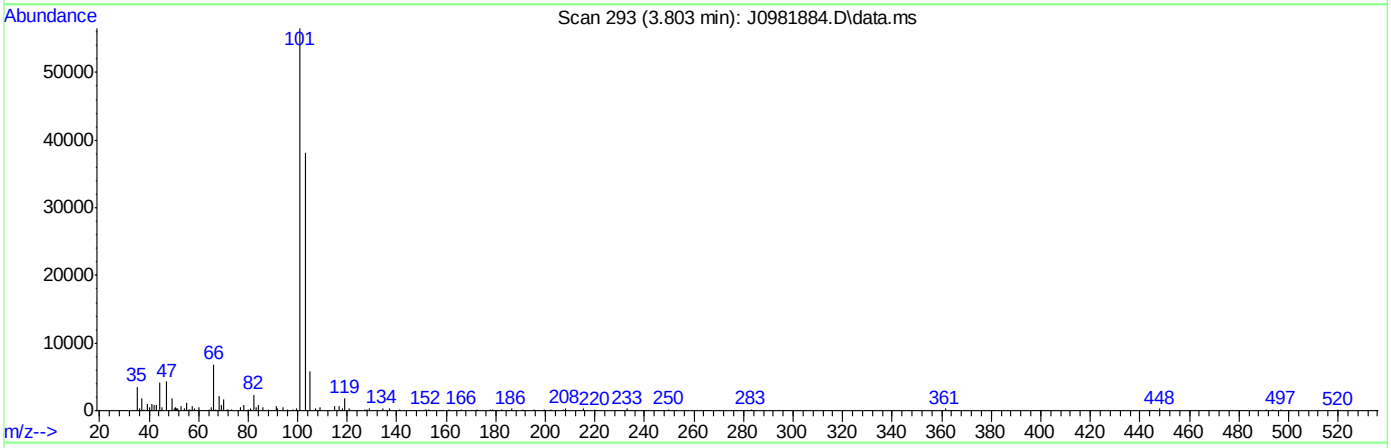
Ion	Exp%	Act%
101.00	100	100
103.00	55.20	67.07
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\123016\
Data File : J0981884.D
Acq On : 30 Dec 2016 3:58 pm
Operator : melissam
Sample : ICV5529-5 Inst : MSVOA6
Misc : MS35465,VJ5529,,,,,
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jan 03 06:58:06 2017
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jan 03 06:58:04 2017
Response via : Initial Calibration





TIC: J0981884.D\data.ms

(8) Trichlorofluoromethane ( )

3.803min (+0.000) 43.40ug/L m

response 331115

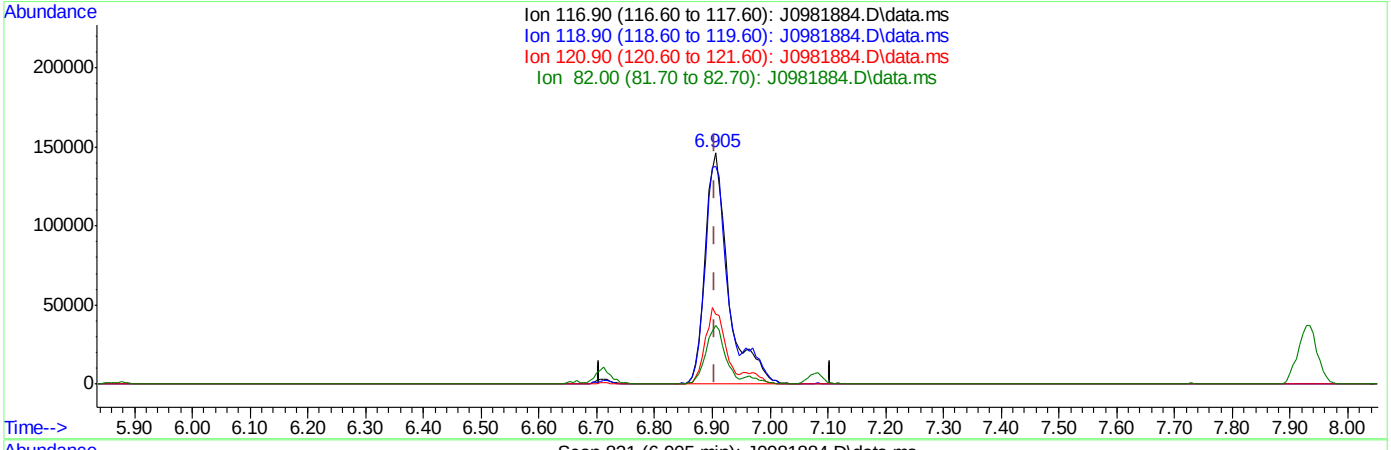
Ion	Exp%	Act%
101.00	100	100
103.00	55.20	67.53
0.00	0.00	0.00
0.00	0.00	0.00

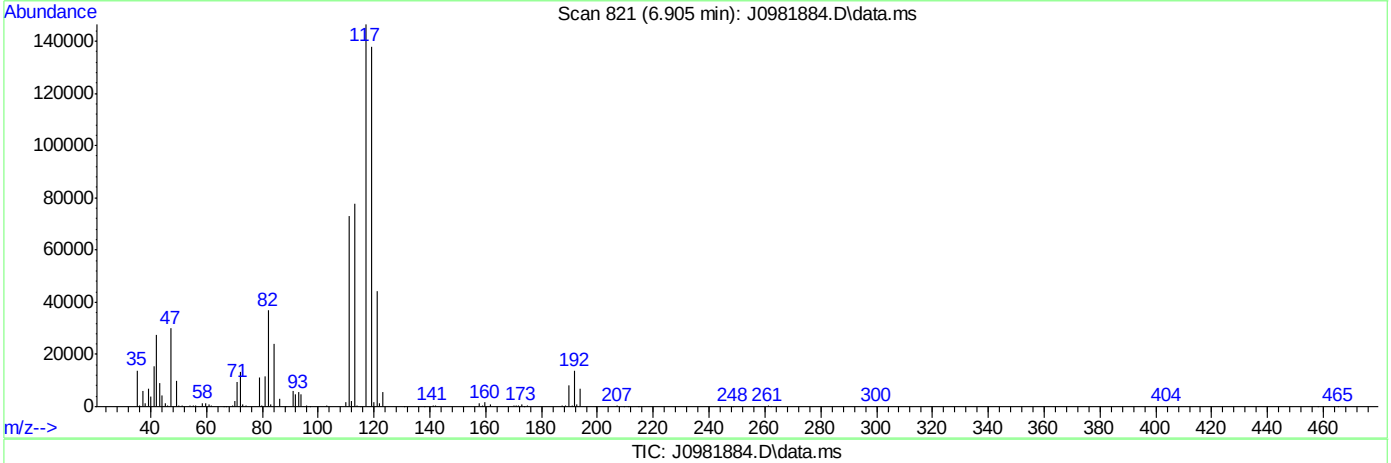
SGS ACCUTEST FA39742

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\123016\
Data File : J0981884.D
Acq On : 30 Dec 2016 3:58 pm
Operator : melissam
Sample : ICV5529-5 Inst : MSVOA6
Misc : MS35465,VJ5529,,,,,
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jan 03 06:58:06 2017
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jan 03 06:58:04 2017
Response via : Initial Calibration





TIC: J0981884.D\data.ms

(37) Carbon Tetrachloride ( )

6.905min (+0.000) 53.00ug/L

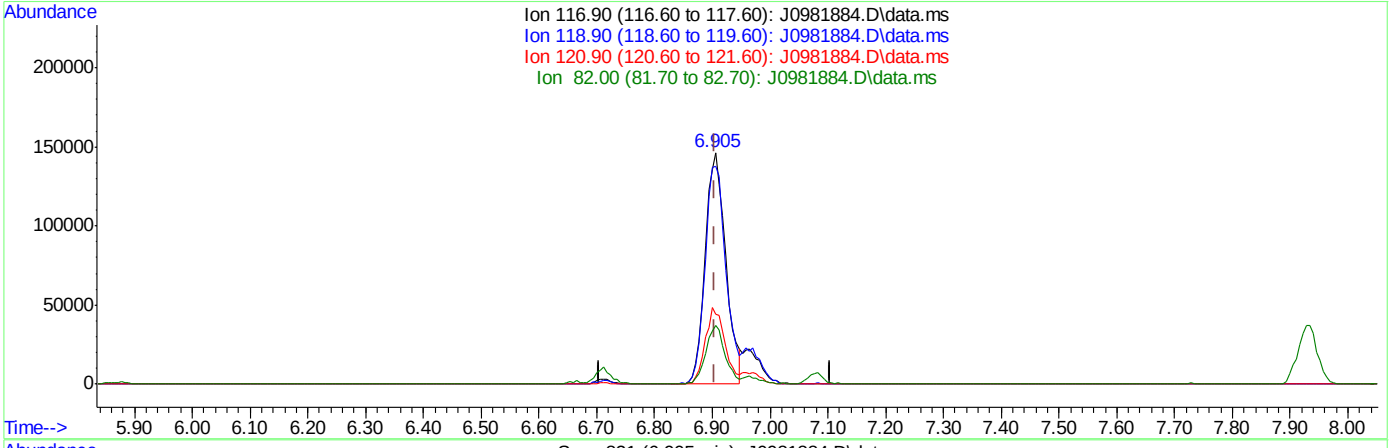
response 416425

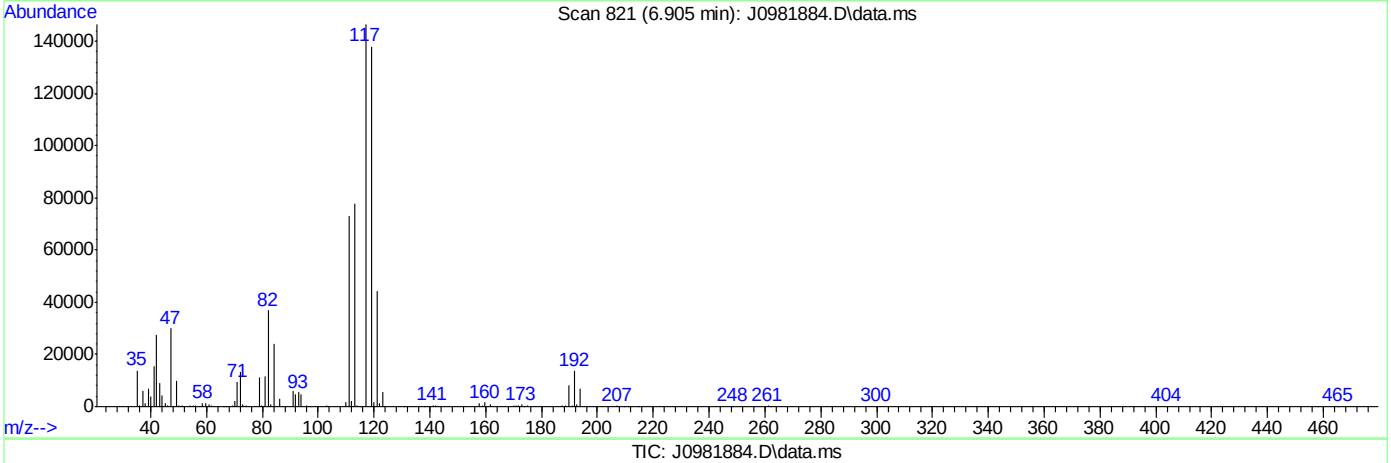
Ion	Exp%	Act%
116.90	100	100
118.90	91.30	94.06
120.90	30.80	30.23
82.00	23.30	25.18

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\123016\
Data File : J0981884.D
Acq On : 30 Dec 2016 3:58 pm
Operator : melissam
Sample : ICV5529-5 Inst : MSVOA6
Misc : MS35465,VJ5529,,,,,
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jan 03 06:58:06 2017
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jan 03 06:58:04 2017
Response via : Initial Calibration





TIC: J0981884.D\data.ms

(37) Carbon Tetrachloride ( )

6.905min (+0.000) 46.62ug/L m

response 366286

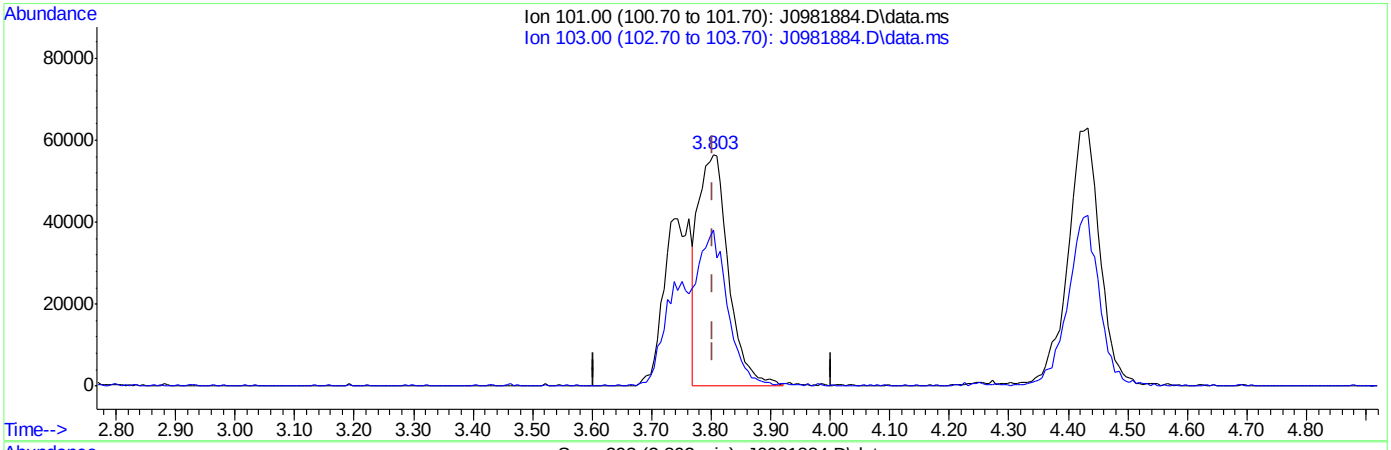
Ion	Exp%	Act%
116.90	100	100
118.90	91.30	94.06
120.90	30.80	30.23
82.00	23.30	25.18

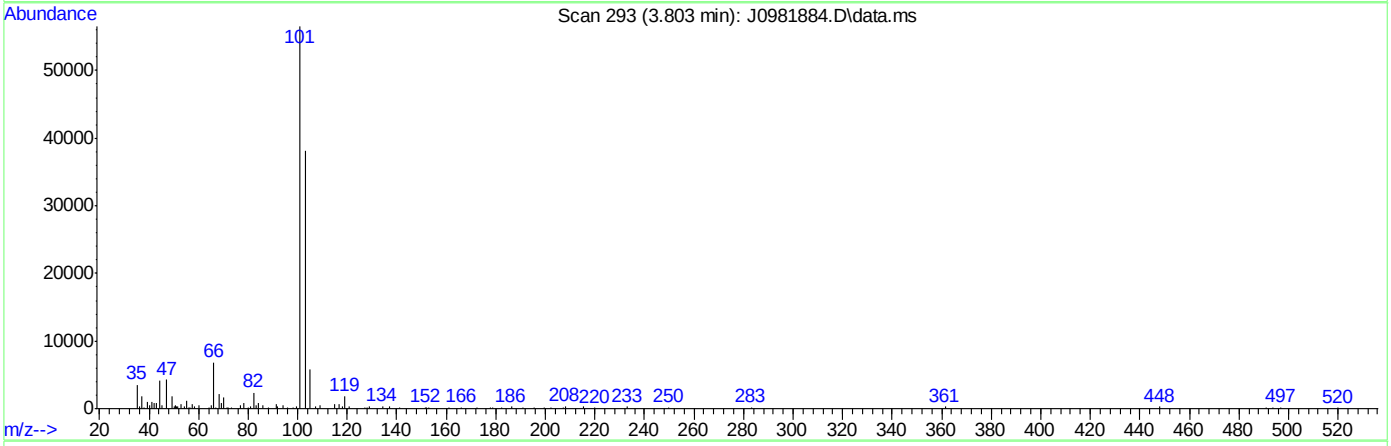
SGS ACCUTEST FA39742

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\123016\
Data File : J0981884.D
Acq On : 30 Dec 2016 3:58 pm
Operator : melissam
Sample : ICV5529-5 Inst : MSVOA6
Misc : MS35465,VJ5529,,,,,
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jan 03 09:42:26 2017
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jan 03 08:23:52 2017
Response via : Initial Calibration





TIC: J0981884.D\data.ms

(8) Trichlorofluoromethane ( )

3.803min (+0.000) 25.98ug/L

response 199489

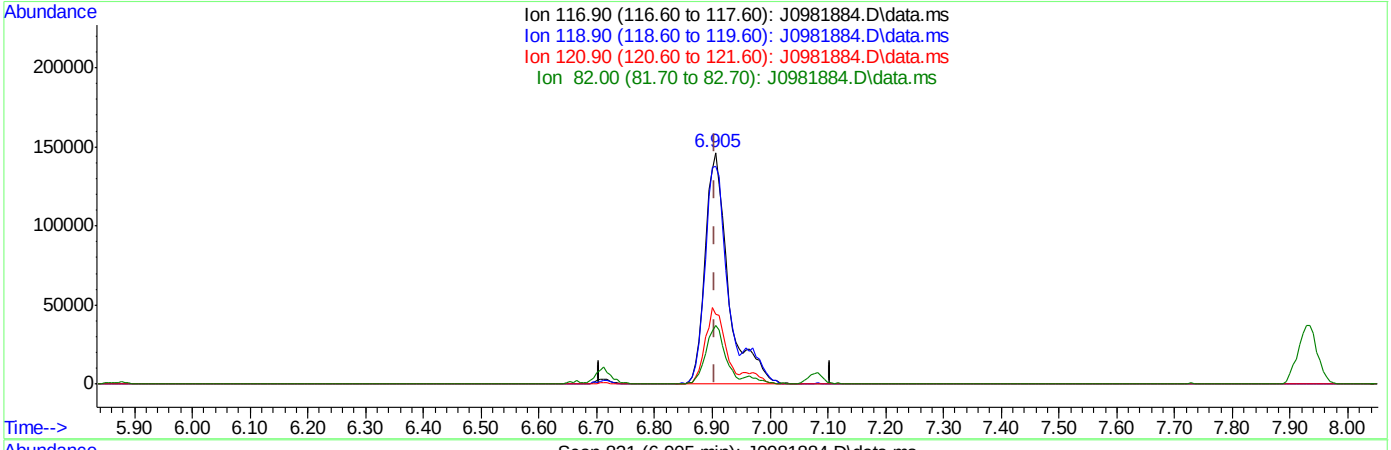
Ion	Exp%	Act%
101.00	100	100
103.00	55.20	67.07
0.00	0.00	0.00
0.00	0.00	0.00

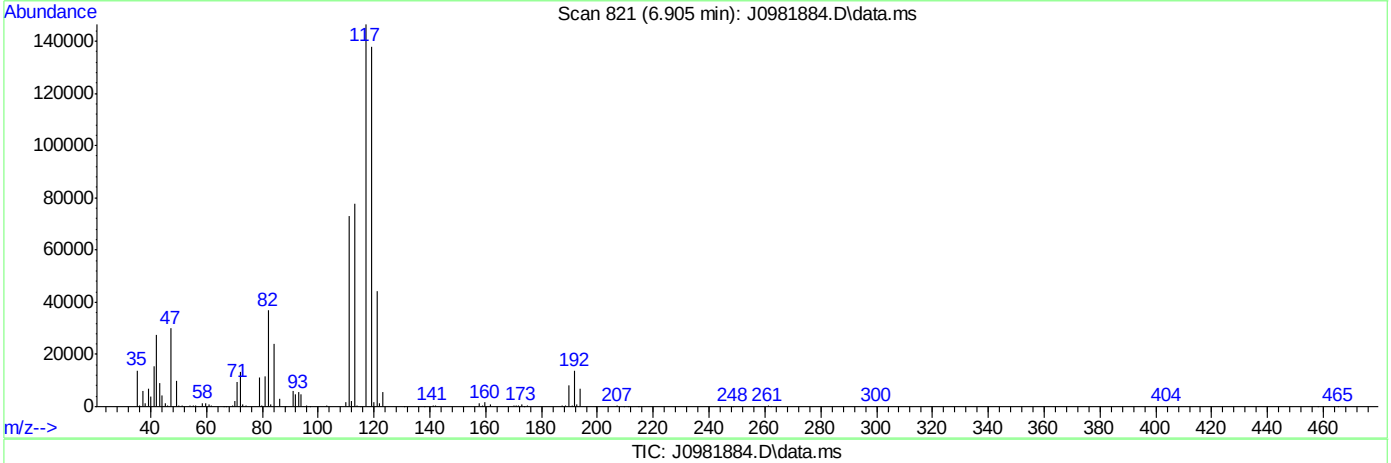
SGS ACCUTEST FA39742

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\123016\
Data File : J0981884.D
Acq On : 30 Dec 2016 3:58 pm
Operator : melissam
Sample : ICV5529-5 Inst : MSVOA6
Misc : MS35465,VJ5529,,,,,
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jan 03 09:42:26 2017
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jan 03 08:23:52 2017
Response via : Initial Calibration





TIC: J0981884.D\data.ms

(37) Carbon Tetrachloride ( )

6.905min (+0.000) 53.00ug/L

response 416425

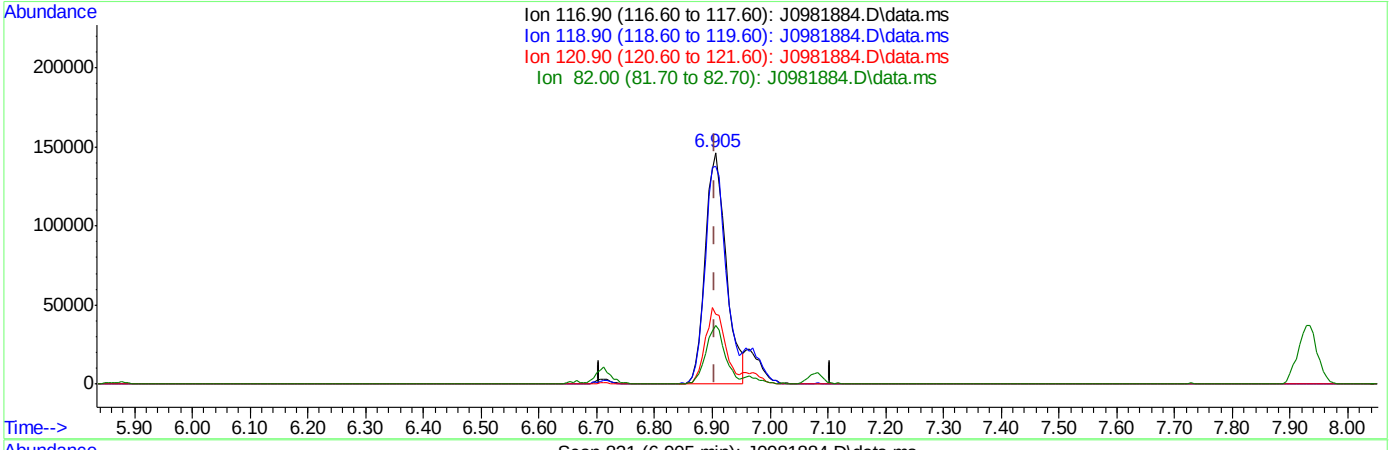
Ion	Exp%	Act%
116.90	100	100
118.90	91.30	94.06
120.90	30.80	30.23
82.00	23.30	25.18

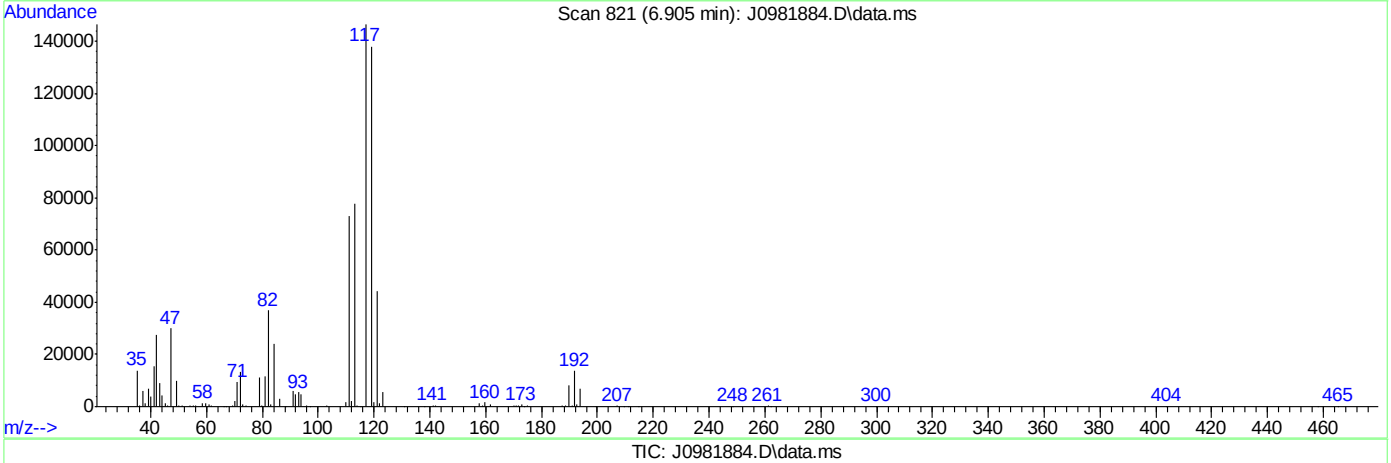
SGS ACCUTEST FA39742

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\123016\
Data File : J0981884.D
Acq On : 30 Dec 2016 3:58 pm
Operator : melissam
Sample : ICV5529-5 Inst : MSVOA6
Misc : MS35465,VJ5529,,,,,
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jan 03 09:42:26 2017
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jan 03 08:23:52 2017
Response via : Initial Calibration





TIC: J0981884.D\data.ms

(37) Carbon Tetrachloride ( )

6.905min (+0.000) 47.50ug/L m

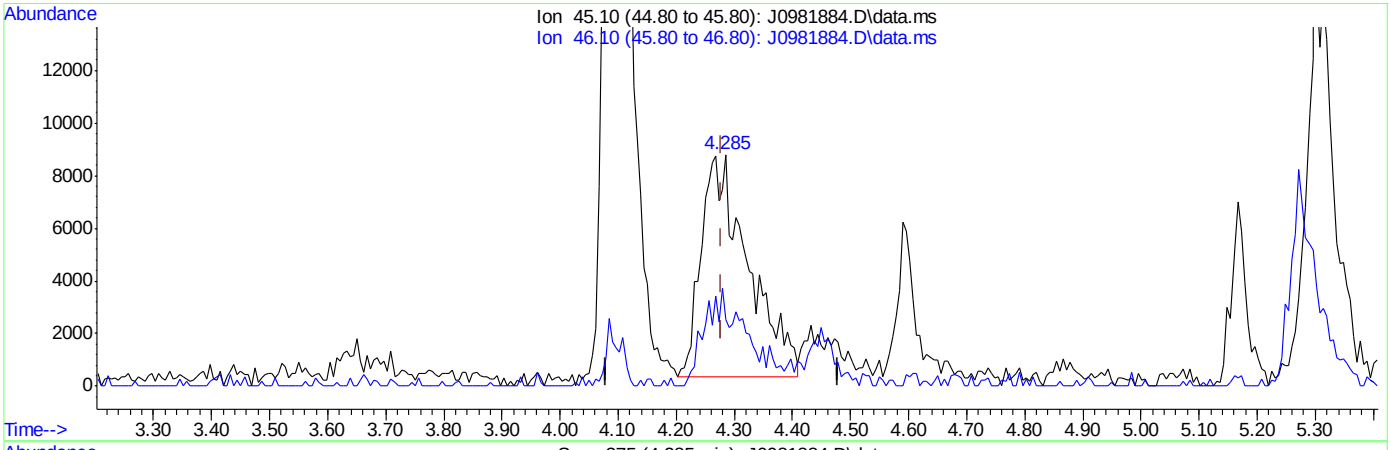
response 373194

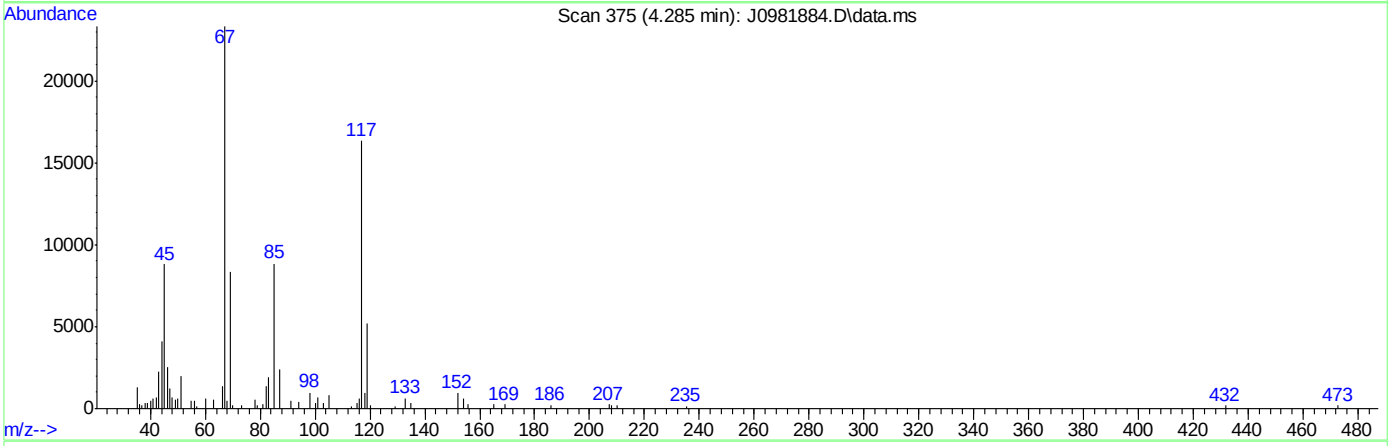
Ion	Exp%	Act%
116.90	100	100
118.90	91.30	94.06
120.90	30.80	30.23
82.00	23.30	25.18

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\123016\
Data File : J0981884.D
Acq On : 30 Dec 2016 3:58 pm
Operator : melissam
Sample : ICV5529-5 Inst : MSVOA6
Misc : MS35465,VJ5529,,,,,
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jan 03 09:42:26 2017
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jan 03 08:23:52 2017
Response via : Initial Calibration





TIC: J0981884.D\data.ms

(107) Ethanol

4.285min (+0.006) 803.30ug/L

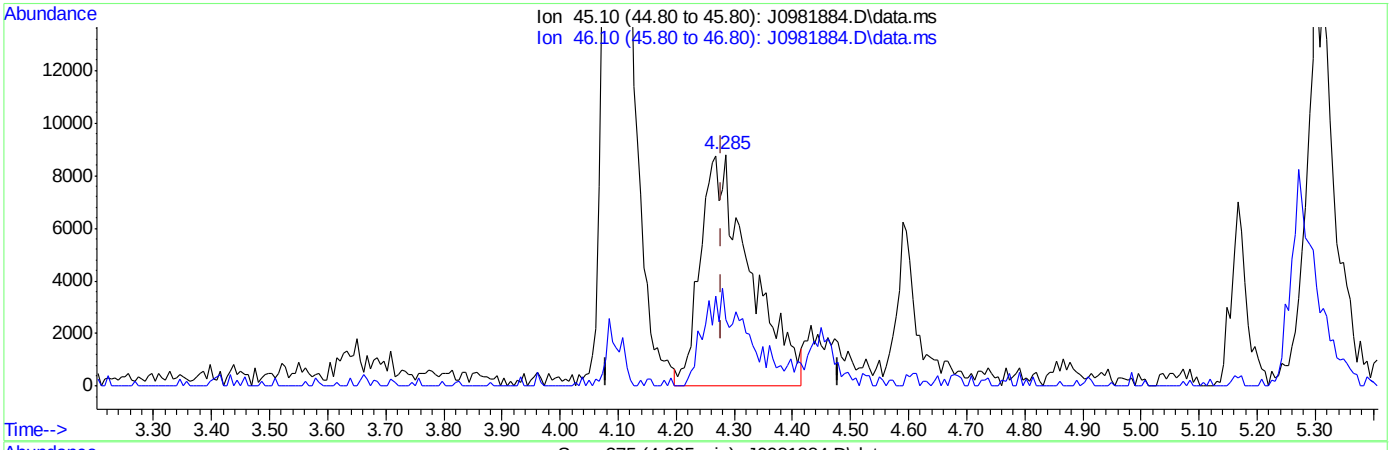
response 47066

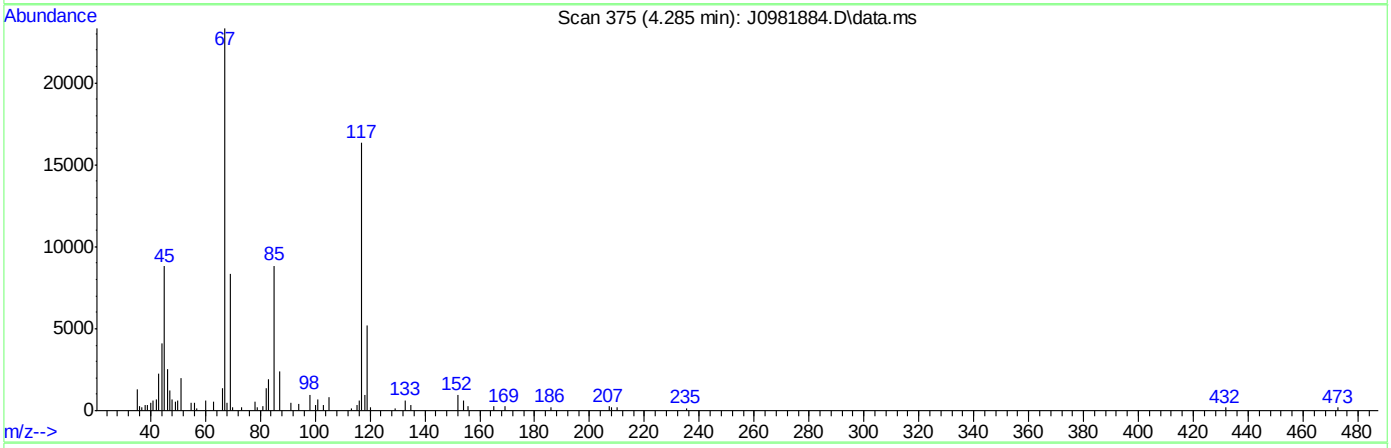
Ion	Exp%	Act%
45.10	100	100
46.10	41.60	30.20
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\123016\
Data File : J0981884.D
Acq On : 30 Dec 2016 3:58 pm
Operator : melissam
Sample : ICV5529-5 Inst : MSVOA6
Misc : MS35465,VJ5529,,,,,
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jan 03 09:42:26 2017
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jan 03 08:23:52 2017
Response via : Initial Calibration





TIC: J0981884.D\data.ms

(107) Ethanol

4.285min (+0.006) 890.80ug/L m

response 52195

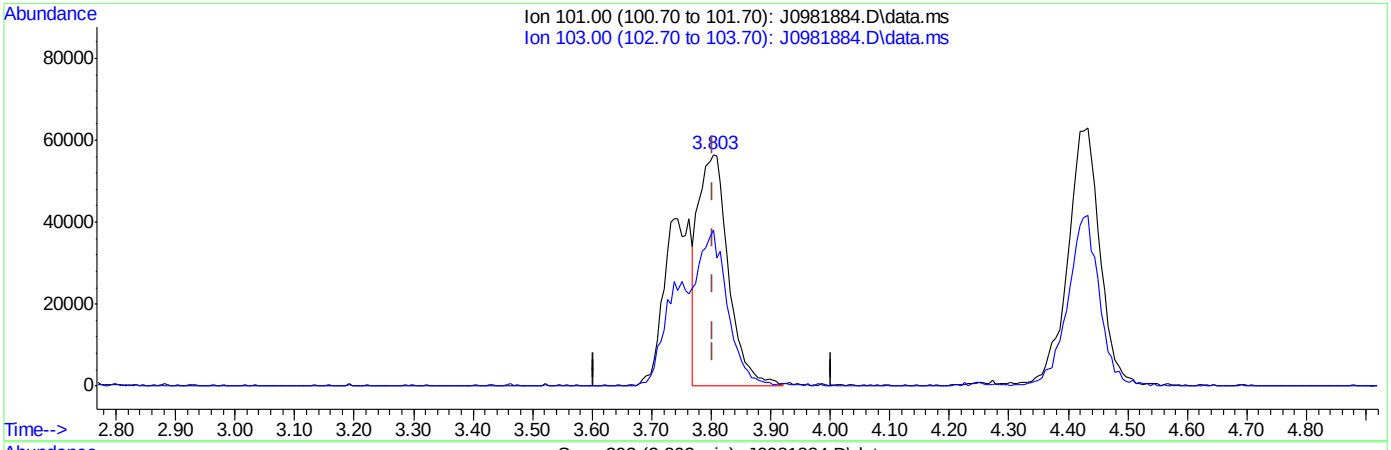
Ion	Exp%	Act%
45.10	100	100
46.10	41.60	28.95
0.00	0.00	0.00
0.00	0.00	0.00

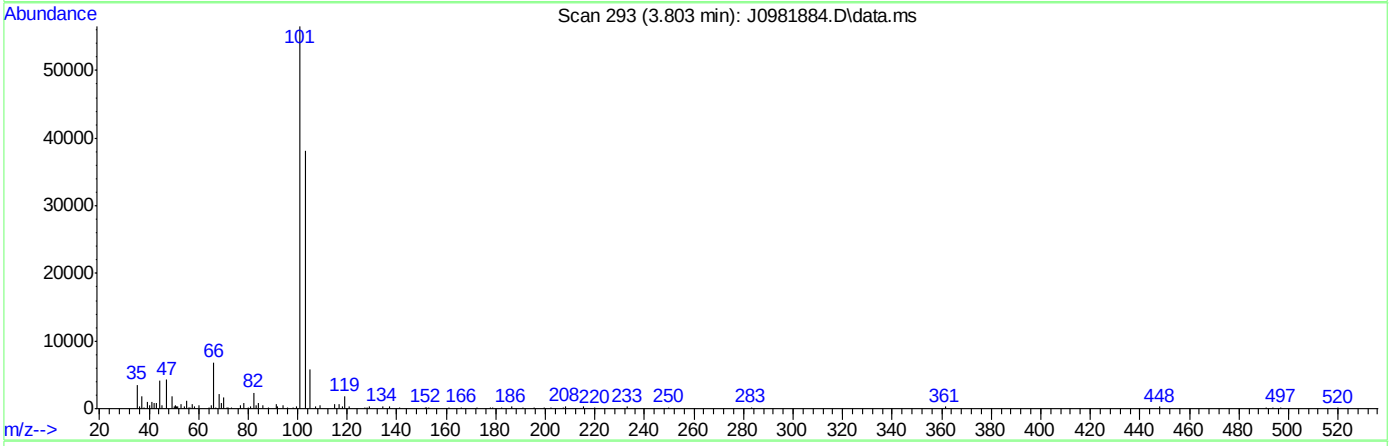
SGS ACCUTEST FA39742

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\123016\
Data File : J0981884.D
Acq On : 30 Dec 2016 3:58 pm
Operator : melissam
Sample : ICV5529-5 Inst : MSVOA6
Misc : MS35465,VJ5529,,,,,
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jan 03 09:51:16 2017
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jan 03 09:51:05 2017
Response via : Initial Calibration





TIC: J0981884.D\data.ms

(8) Trichlorofluoromethane ( )

3.803min (+0.000) 25.98ug/L

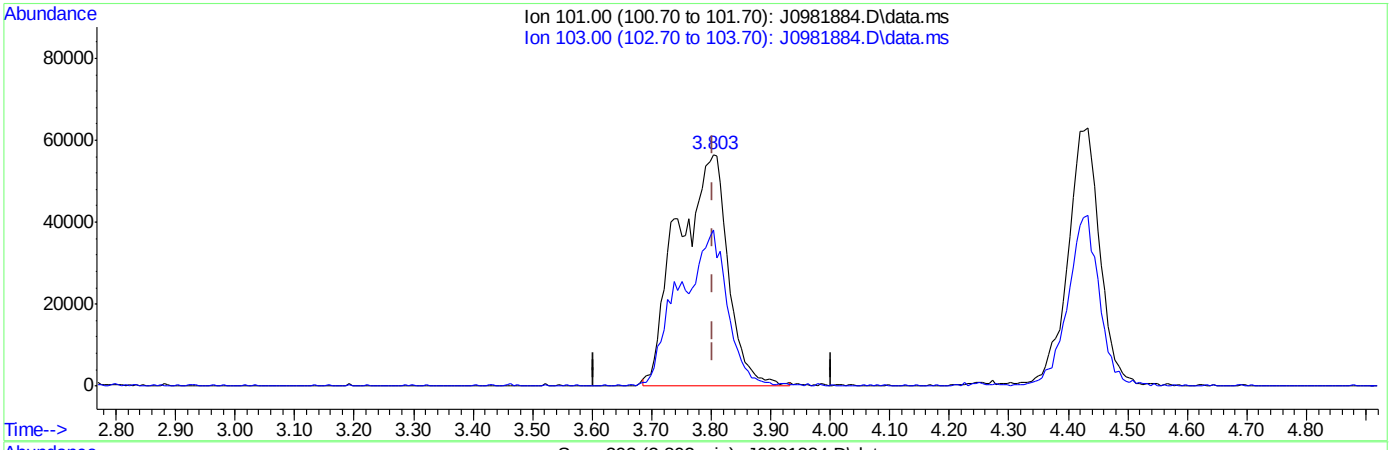
response 199489

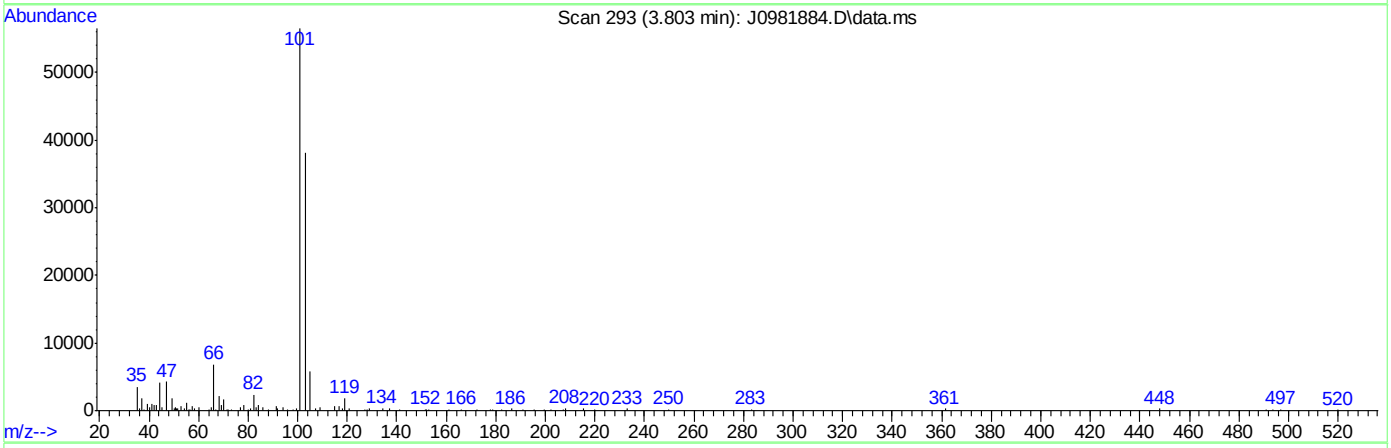
Ion	Exp%	Act%
101.00	100	100
103.00	55.20	67.07
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\123016\
Data File : J0981884.D
Acq On : 30 Dec 2016 3:58 pm
Operator : melissam
Sample : ICV5529-5 Inst : MSVOA6
Misc : MS35465,VJ5529,,,,,
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jan 03 09:51:16 2017
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jan 03 09:51:05 2017
Response via : Initial Calibration





TIC: J0981884.D\data.ms

(8) Trichlorofluoromethane ( )

3.803min (+0.000) 43.08ug/L m

response 330829

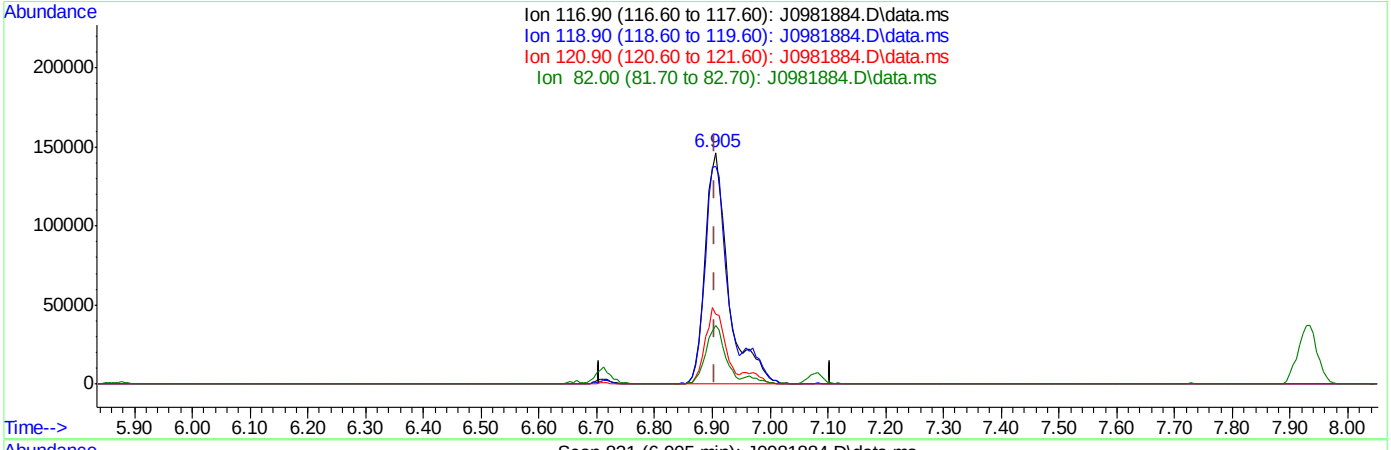
Ion	Exp%	Act%
101.00	100	100
103.00	55.20	67.53
0.00	0.00	0.00
0.00	0.00	0.00

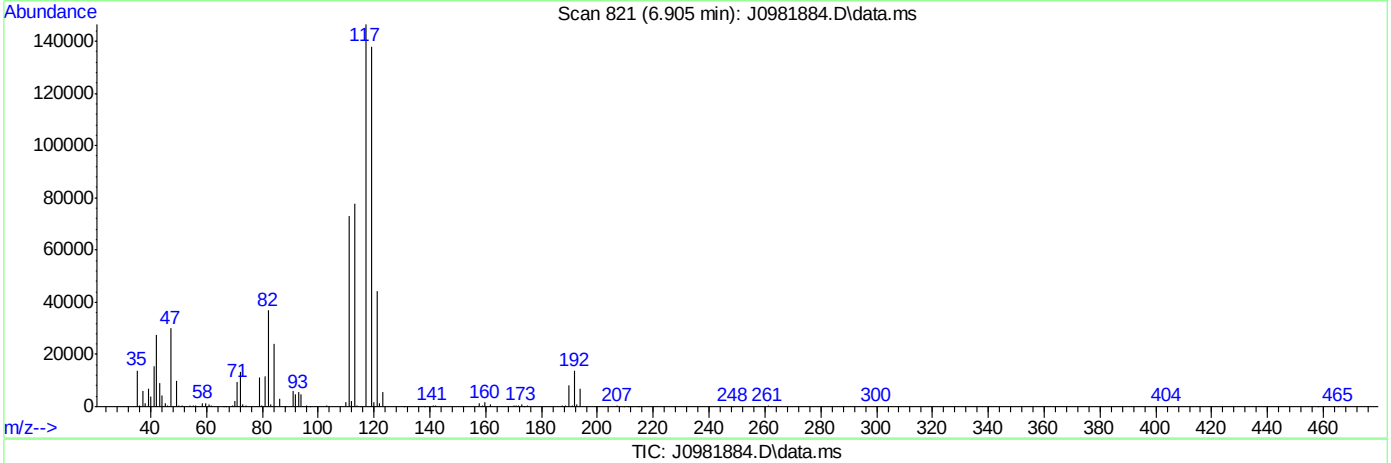
SGS ACCUTEST FA39742

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\123016\
Data File : J0981884.D
Acq On : 30 Dec 2016 3:58 pm
Operator : melissam
Sample : ICV5529-5 Inst : MSVOA6
Misc : MS35465,VJ5529,,,,,
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jan 03 09:51:16 2017
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jan 03 09:51:05 2017
Response via : Initial Calibration





TIC: J0981884.D\data.ms

(37) Carbon Tetrachloride ( )

6.905min (+0.000) 53.00ug/L

response 416425

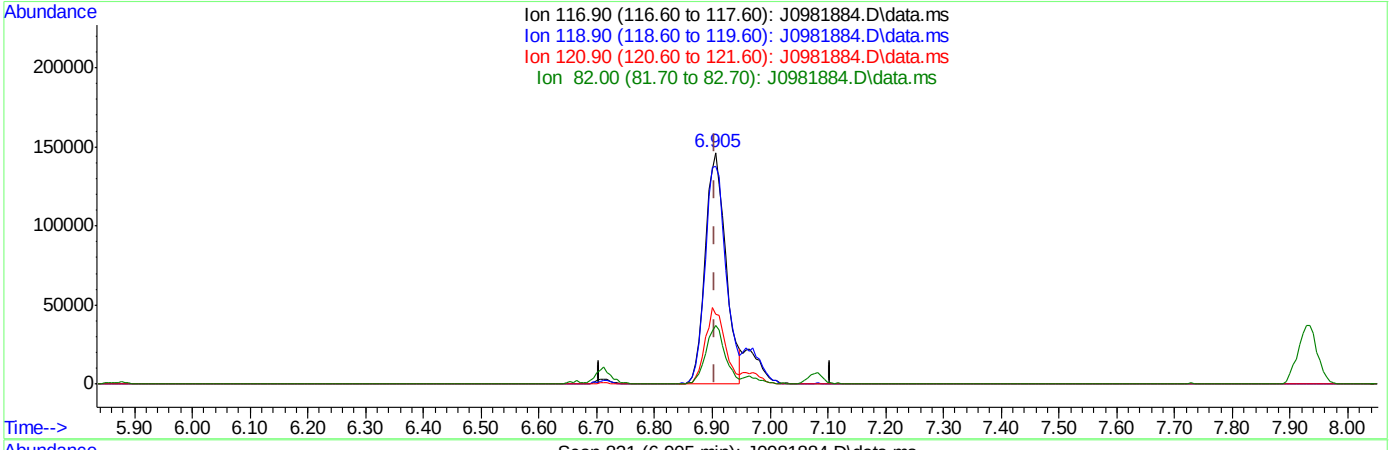
Ion	Exp%	Act%
116.90	100	100
118.90	91.30	94.06
120.90	30.80	30.23
82.00	23.30	25.18

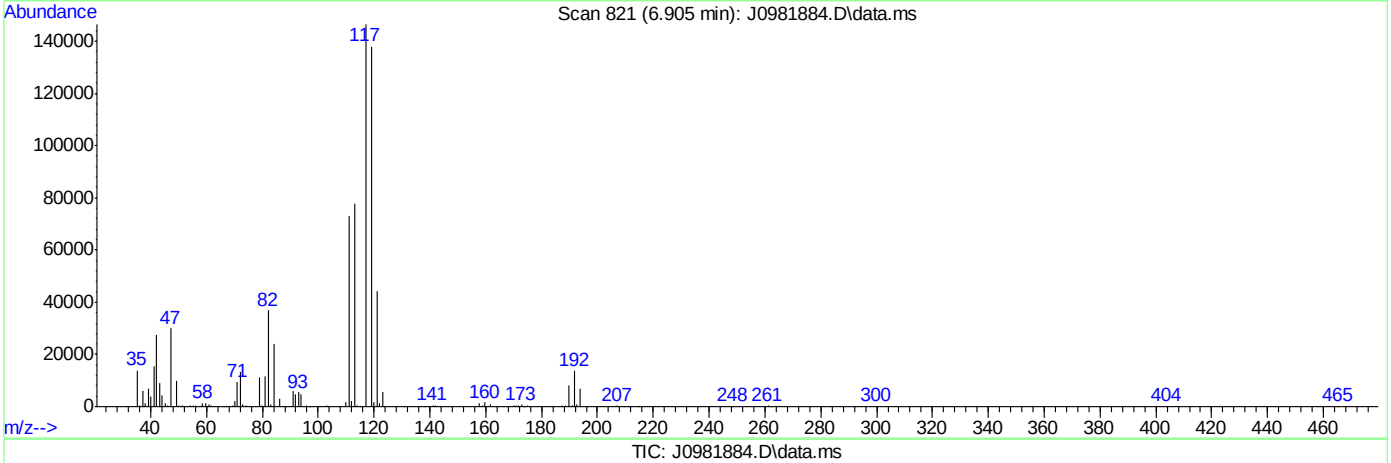
SGS ACCUTEST FA39742

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\123016\
Data File : J0981884.D
Acq On : 30 Dec 2016 3:58 pm
Operator : melissam
Sample : ICV5529-5 Inst : MSVOA6
Misc : MS35465,VJ5529,,,,,
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jan 03 09:51:16 2017
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jan 03 09:51:05 2017
Response via : Initial Calibration





TIC: J0981884.D\data.ms

(37) Carbon Tetrachloride ( )

6.905min (+0.000) 46.62ug/L m

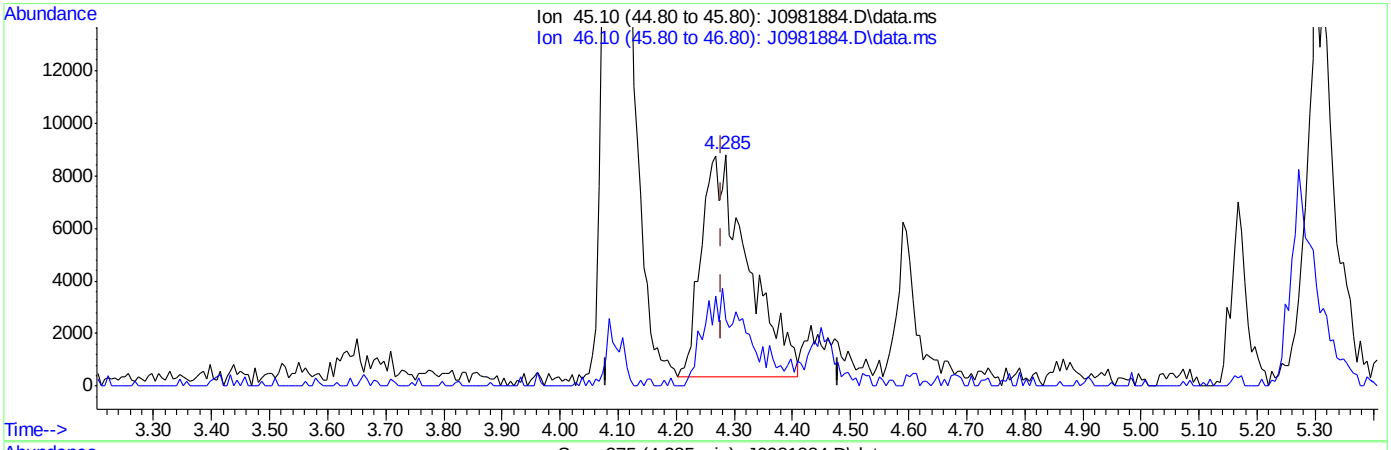
response 366286

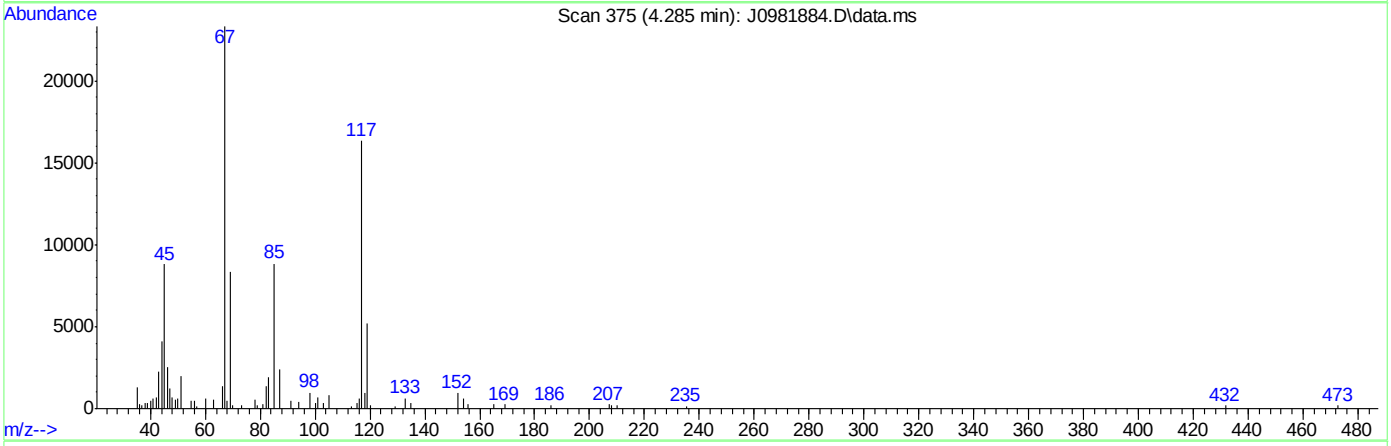
Ion	Exp%	Act%
116.90	100	100
118.90	91.30	94.06
120.90	30.80	30.23
82.00	23.30	25.18

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\123016\
Data File : J0981884.D
Acq On : 30 Dec 2016 3:58 pm
Operator : melissam
Sample : ICV5529-5 Inst : MSVOA6
Misc : MS35465,VJ5529,,,,,
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jan 03 09:51:16 2017
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jan 03 09:51:05 2017
Response via : Initial Calibration





TIC: J0981884.D\data.ms

(107) Ethanol

4.285min (+0.006) 803.30ug/L

response 47066

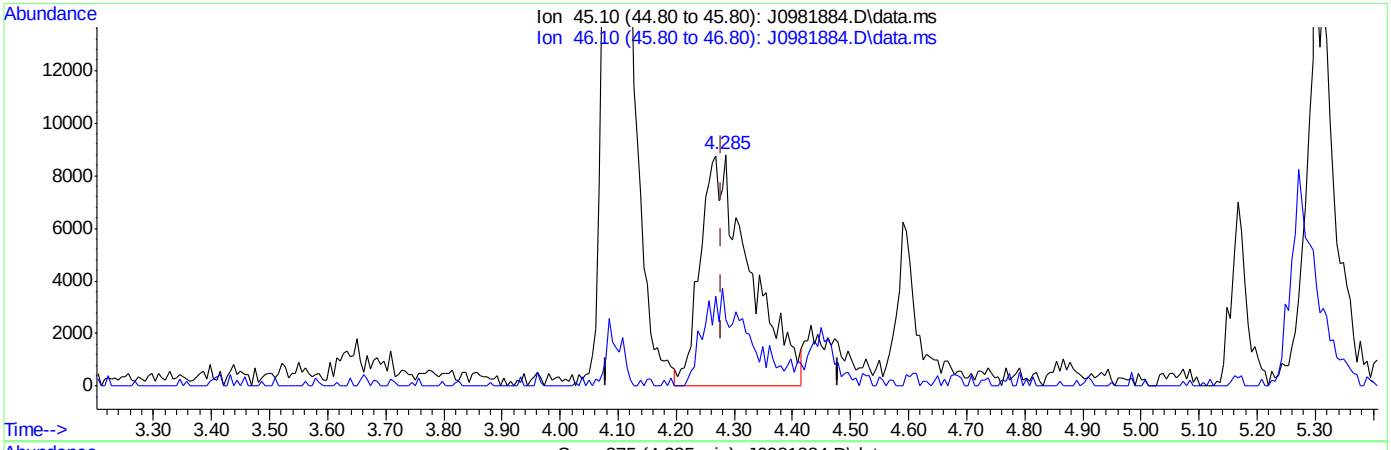
Ion	Exp%	Act%
45.10	100	100
46.10	41.60	30.20
0.00	0.00	0.00
0.00	0.00	0.00

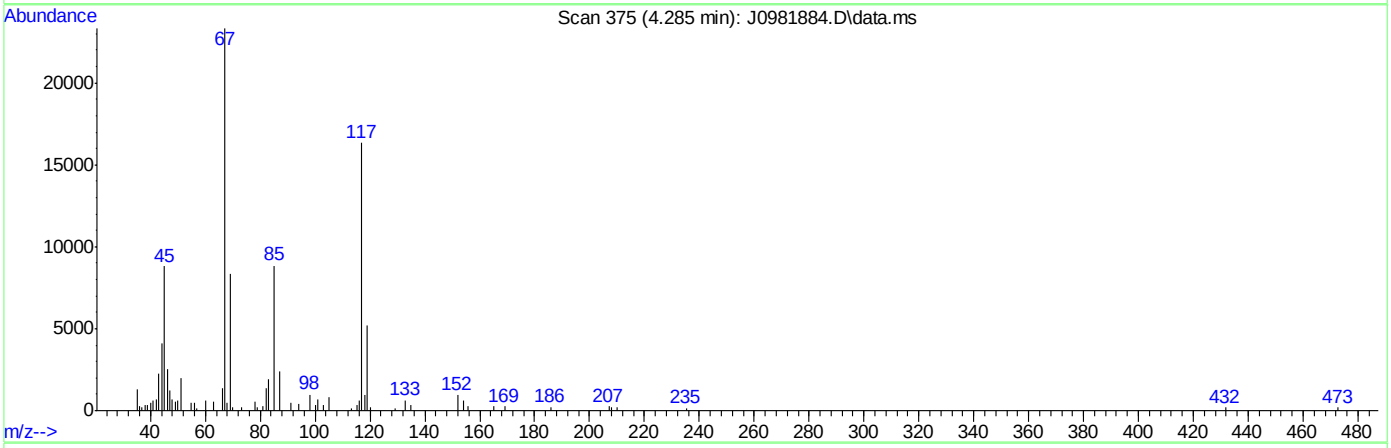
SGS ACCUTEST FA39742

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\123016\
Data File : J0981884.D
Acq On : 30 Dec 2016 3:58 pm
Operator : melissam
Sample : ICV5529-5 Inst : MSVOA6
Misc : MS35465,VJ5529,,,,,
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jan 03 09:51:16 2017
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jan 03 09:51:05 2017
Response via : Initial Calibration





TIC: J0981884.D\data.ms

(107) Ethanol

4.285min (+0.006) 890.80ug/L m

response 52195

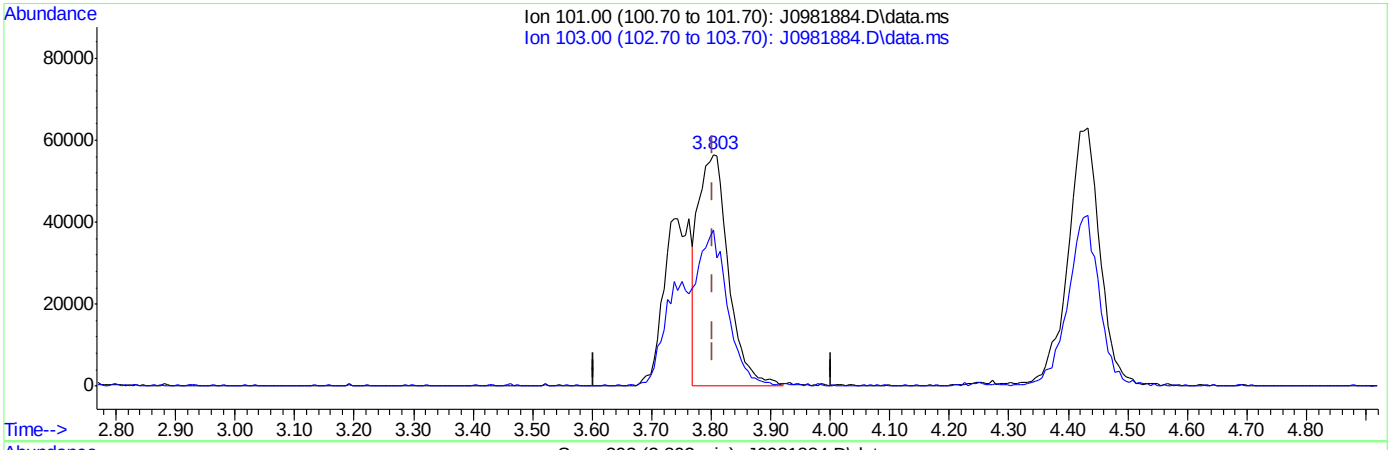
Ion	Exp%	Act%
45.10	100	100
46.10	41.60	28.95
0.00	0.00	0.00
0.00	0.00	0.00

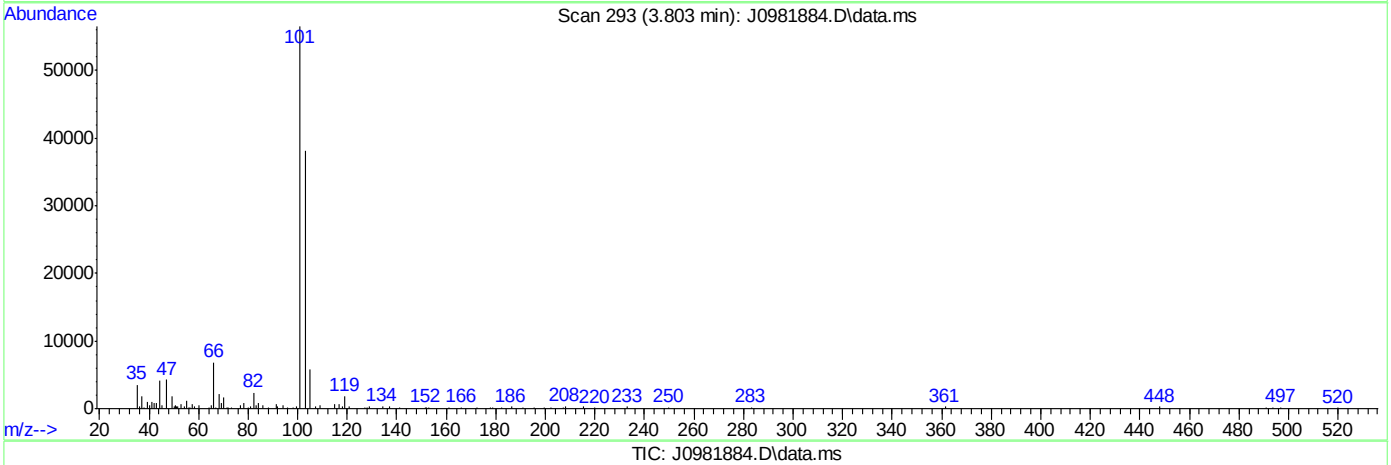
SGS ACCUTEST FA39742

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\123016\
Data File : J0981884.D
Acq On : 30 Dec 2016 3:58 pm
Operator : melissam
Sample : ICV5529-5 Inst : MSVOA6
Misc : MS35465,VJ5529,,,,,
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jan 03 09:59:37 2017
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jan 03 09:58:33 2017
Response via : Initial Calibration





TIC: J0981884.D\data.ms

(8) Trichlorofluoromethane ( )

3.803min (+0.000) 25.98ug/L

response 199489

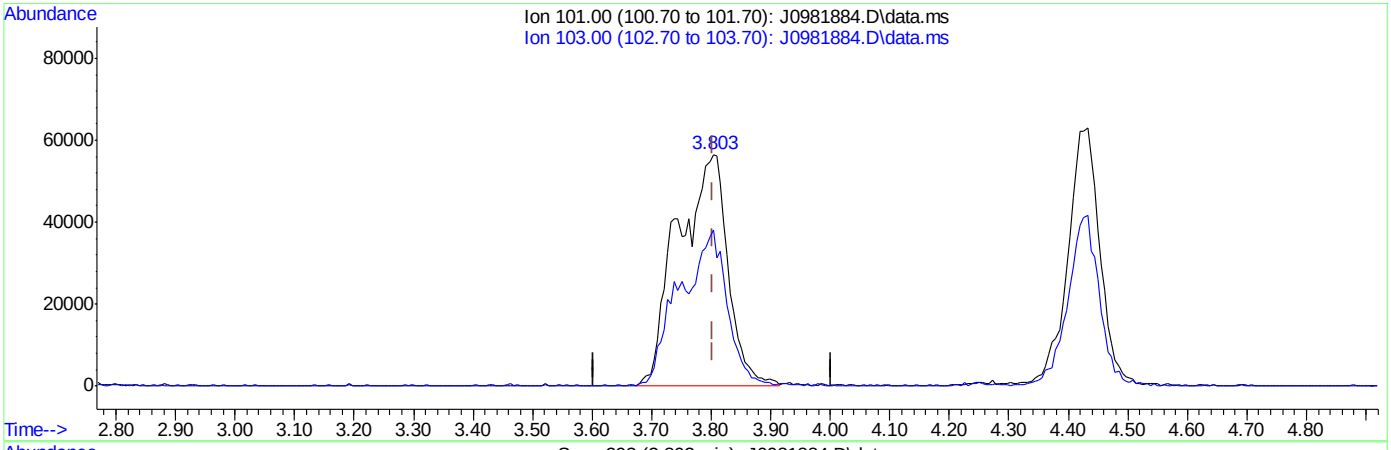
Ion	Exp%	Act%
101.00	100	100
103.00	55.20	67.07
0.00	0.00	0.00
0.00	0.00	0.00

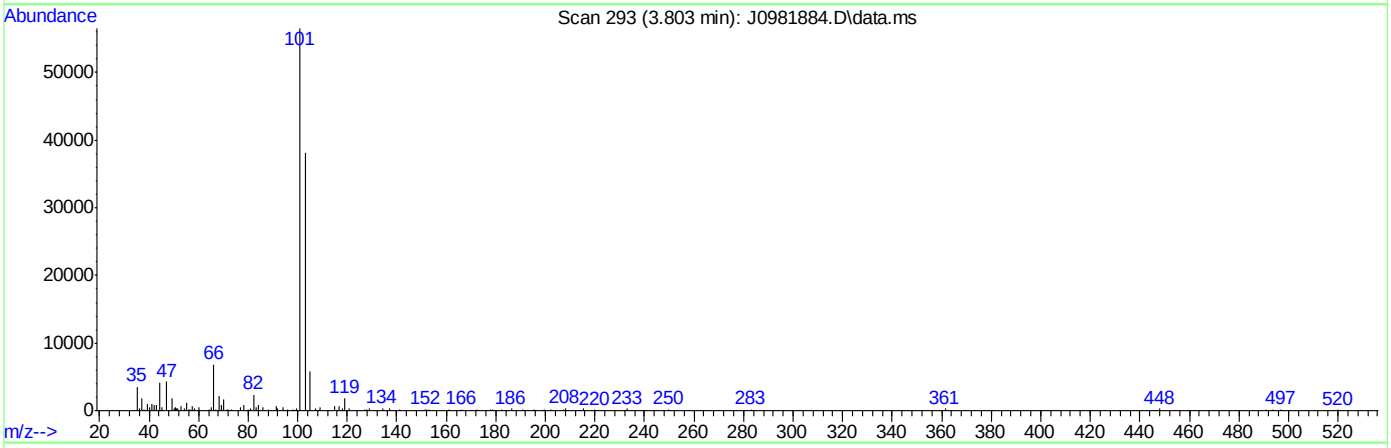
SGS ACCUTEST FA39742

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\123016\
Data File : J0981884.D
Acq On : 30 Dec 2016 3:58 pm
Operator : melissam
Sample : ICV5529-5 Inst : MSVOA6
Misc : MS35465,VJ5529,,,,,
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jan 03 09:59:37 2017
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jan 03 09:58:33 2017
Response via : Initial Calibration





TIC: J0981884.D\data.ms

(8) Trichlorofluoromethane ( )

3.803min (+0.000) 43.09ug/L m

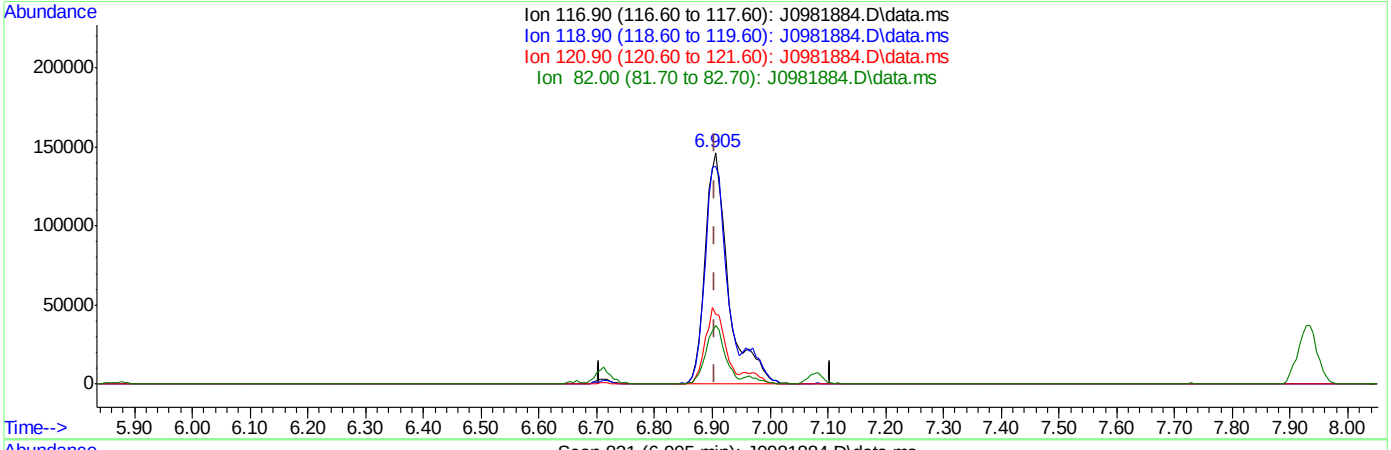
response 330857

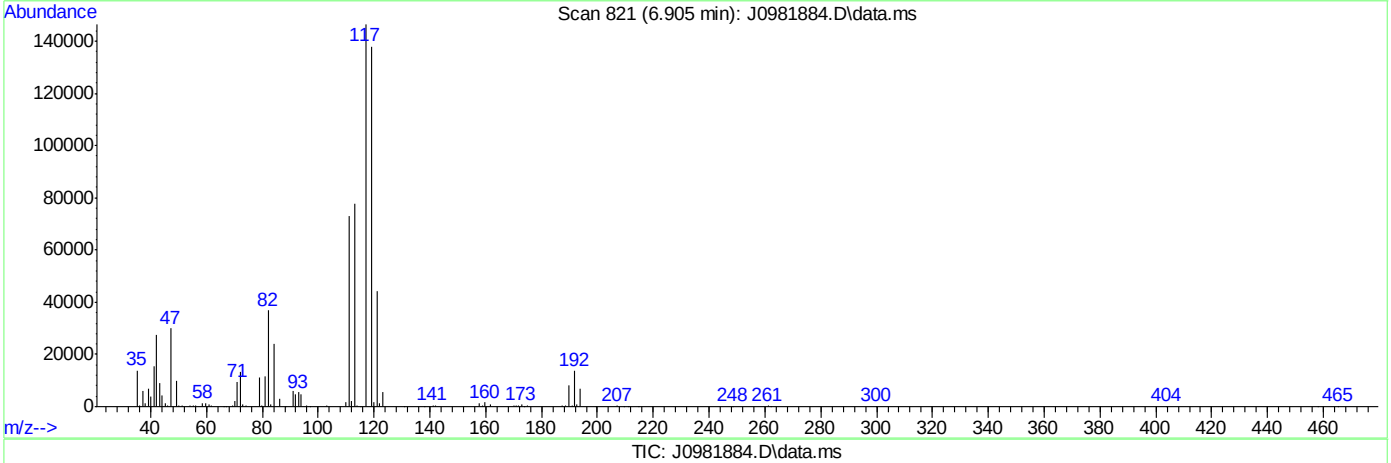
Ion	Exp%	Act%
101.00	100	100
103.00	55.20	67.53
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\123016\
Data File : J0981884.D
Acq On : 30 Dec 2016 3:58 pm
Operator : melissam
Sample : ICV5529-5 Inst : MSVOA6
Misc : MS35465,VJ5529,,,,,
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jan 03 09:59:37 2017
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jan 03 09:58:33 2017
Response via : Initial Calibration





TIC: J0981884.D\data.ms

(37) Carbon Tetrachloride ( )

6.905min (+0.000) 53.00ug/L

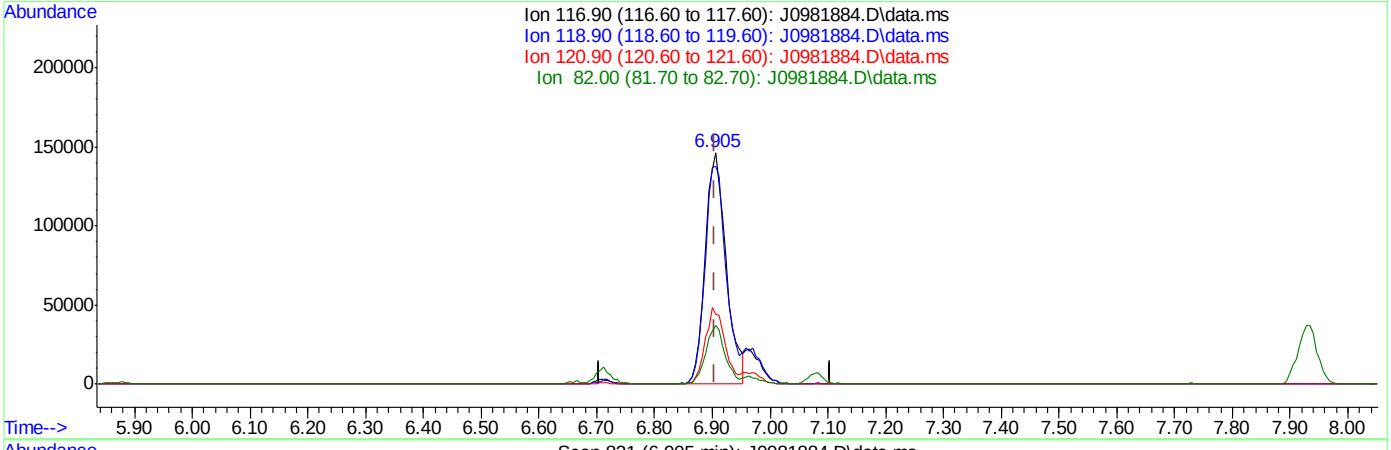
response 416425

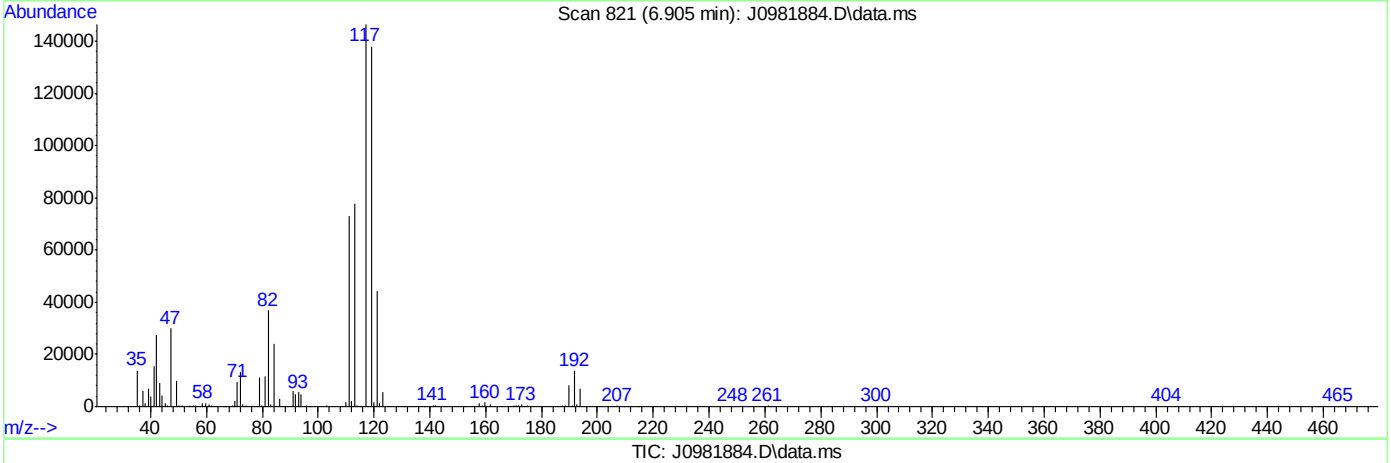
Ion	Exp%	Act%
116.90	100	100
118.90	91.30	94.06
120.90	30.80	30.23
82.00	23.30	25.18

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\123016\
Data File : J0981884.D
Acq On : 30 Dec 2016 3:58 pm
Operator : melissam
Sample : ICV5529-5 Inst : MSVOA6
Misc : MS35465,VJ5529,,,,,
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jan 03 09:59:37 2017
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jan 03 09:58:33 2017
Response via : Initial Calibration





TIC: J0981884.D\data.ms

(37) Carbon Tetrachloride ( )

6.905min (+0.000) 47.46ug/L m

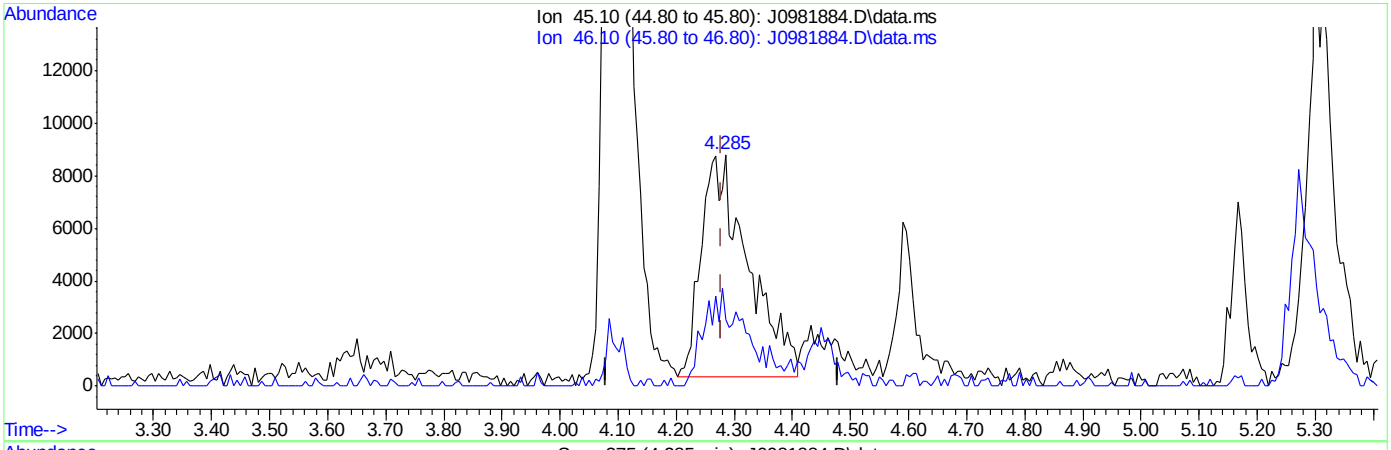
response 372892

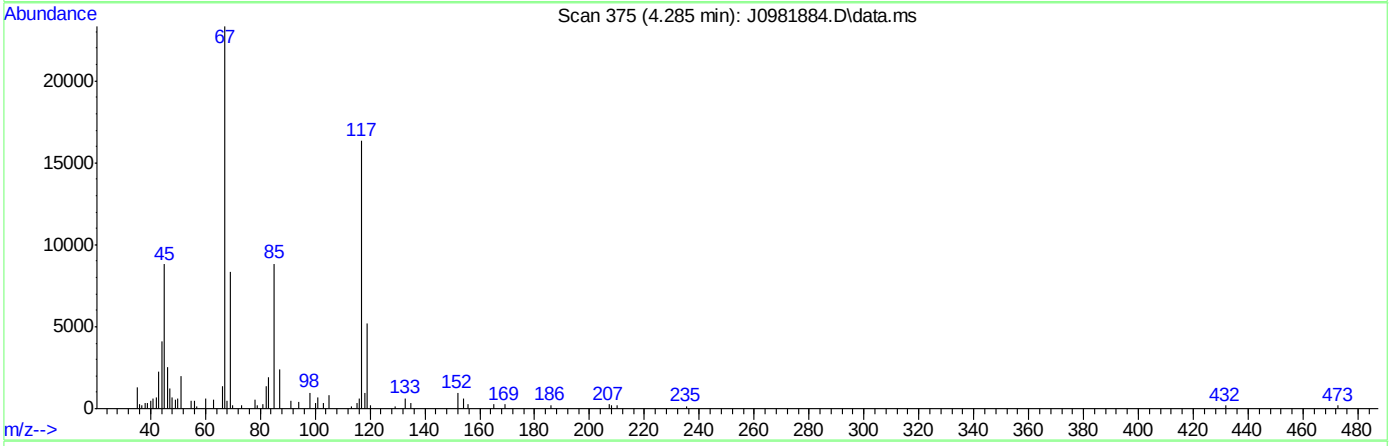
Ion	Exp%	Act%
116.90	100	100
118.90	91.30	94.06
120.90	30.80	30.23
82.00	23.30	25.18

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\123016\
Data File : J0981884.D
Acq On : 30 Dec 2016 3:58 pm
Operator : melissam
Sample : ICV5529-5 Inst : MSVOA6
Misc : MS35465,VJ5529,,,,,
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jan 03 09:59:37 2017
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jan 03 09:58:33 2017
Response via : Initial Calibration





TIC: J0981884.D\data.ms

(107) Ethanol

4.285min (+0.006) 803.30ug/L

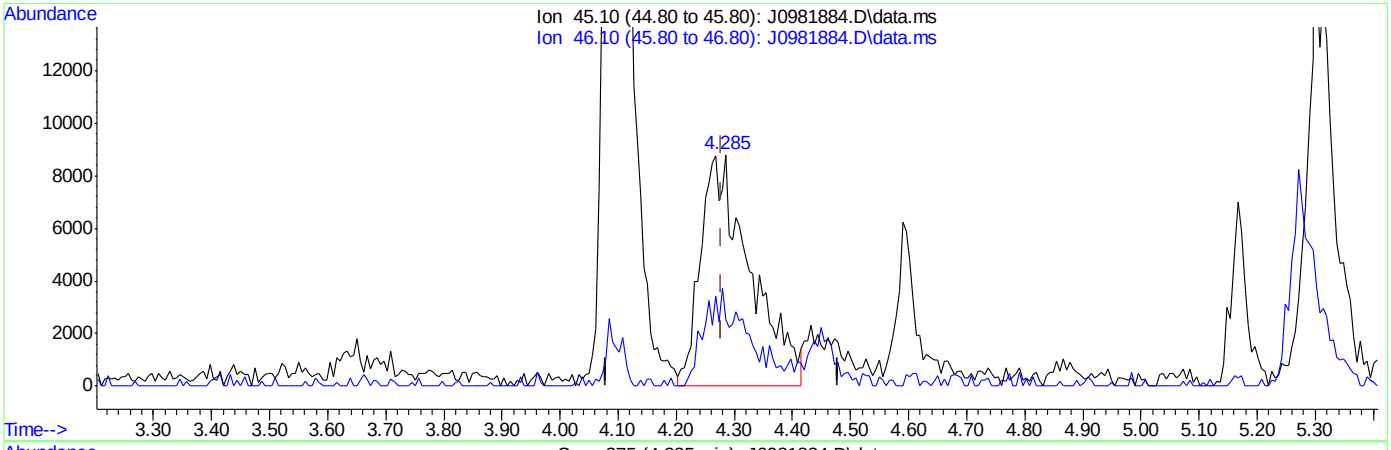
response 47066

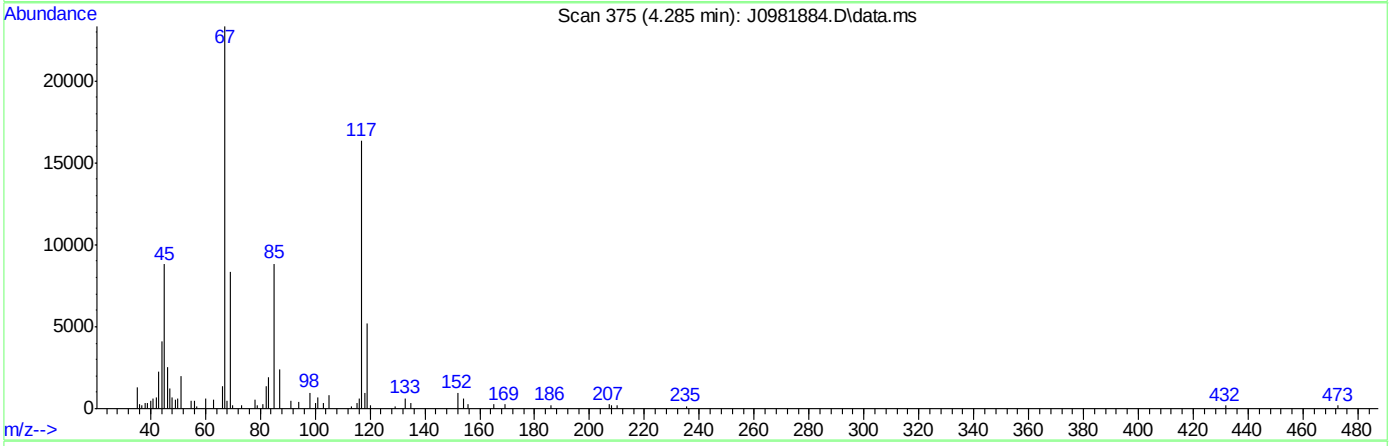
Ion	Exp%	Act%
45.10	100	100
46.10	41.60	30.20
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\123016\
Data File : J0981884.D
Acq On : 30 Dec 2016 3:58 pm
Operator : melissam
Sample : ICV5529-5 Inst : MSVOA6
Misc : MS35465,VJ5529,,,,,
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jan 03 09:59:37 2017
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jan 03 09:58:33 2017
Response via : Initial Calibration





TIC: J0981884.D\data.ms

(107) Ethanol

4.285min (+0.006) 888.58ug/L m

response 52065

Ion	Exp%	Act%
45.10	100	100
46.10	41.60	28.95
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integrations APPROVED (compounds with "m" flag)
Juan Garcia
01/04/17 11:16

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\010317\
Data File : J0981914.D
Acq On : 3 Jan 2017 9:16 am
Operator : darshnap
Sample : cc5529-5 Inst : MSVOA6
Misc : MS35465,VJ5530,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 03 10:53:38 2017
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jan 03 08:23:52 2017
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.734	96	742866	50.00	ug/L	0.00
56) Chlorobenzene-d5	10.824	117	531185	50.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	13.186	152	290691	50.00	ug/L	0.00
106) Tert Butyl Alcohol-d10	5.278	65	94854	250.00	ug/L	0.00
System Monitoring Compounds						
36) Dibromofluoromethane	6.905	113	171424	48.88	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 97.76%			
46) 1,2-Dichloroethane-d4	7.452	65	247248	52.43	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 104.86%			
57) Toluene-d8	9.279	98	686219	48.64	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 97.28%			
79) 4-Bromofluorobenzene	12.035	95	291171	50.22	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 100.44%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.651	85	316829	39.21	ug/L	99
3) Chloromethane	2.875	50	453235	38.72	ug/L	95
4) Vinyl Chloride	3.022	62	257941	36.29	ug/L	99
5) 1,3-Butadiene	3.016	54	170096	37.70	ug/L	94
6) Bromomethane	3.445	94	119985	31.30	ug/L	91
7) Chloroethane	3.591	64	90135	33.29	ug/L	85
8) Trichlorofluoromethane	3.815	101	330272m	38.23	ug/L	
9) Ethyl Ether	4.097	59	261374	41.46	ug/L	95
10) 1,2-Dichlorotrifluoroe...	4.326	67	319079	40.94	ug/L	97
11) 1,1-Dichloroethene	4.373	61	453553	41.84	ug/L	94
12) Freon 113	4.438	101	271949	41.30	ug/L	96
13) Carbon Disulfide	4.455	76	941999	41.63	ug/L	100
14) Iodomethane	4.567	142	458422	39.81	ug/L	94
15) Allyl chloride	4.902	41	559980	43.10	ug/L	97
16) Methylene Chloride	5.025	49	474914	41.56	ug/L	98
17) Acetone	5.043	58	136471	228.31	ug/L #	74
18) Methyl acetate	5.166	74	210741	223.98	ug/L	100
19) trans-1,2-Dichloroethene	5.207	61	427077	40.56	ug/L	97
20) Hexane	5.272	56	291585	42.87	ug/L	98
21) Methyl Tert Butyl Ether	5.313	73	877377	41.97	ug/L	97
22) Acetonitrile	5.566	40	250389	515.77	ug/L #	84
23) Di-isopropyl ether	5.689	45	1234187	43.94	ug/L	98
24) Chloroprene	5.848	53	496961	41.15	ug/L	97
25) 1,1-Dichloroethane	5.871	63	520262	41.30	ug/L	99
26) Acrylonitrile	5.901	53	592406	225.18	ug/L	96
27) ETBE	6.094	59	1110522	42.86	ug/L	97
28) Vinyl acetate	6.083	43	3544562	223.17	ug/L	98
29) cis-1,2-Dichloroethene	6.447	96	306826	39.45	ug/L	97
30) 2,2-Dichloropropane	6.576	77	463230	42.80	ug/L	99
31) Bromochloromethane	6.659	128	143512	40.23	ug/L #	88
32) Cyclohexane	6.705	56	591726	41.86	ug/L	95
33) Chloroform	6.711	83	502332	39.31	ug/L	93
34) Ethyl acetate	6.782	43	1474623	226.76	ug/L	96

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\010317\
Data File : J0981914.D
Acq On : 3 Jan 2017 9:16 am
Operator : darshnap
Sample : cc5529-5 Inst : MSVOA6
Misc : MS35465,VJ5530,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 03 10:53:38 2017
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jan 03 08:23:52 2017
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
35) Tetrahydrofuran	6.894	42	94407	44.20 ug/L	90
37) Carbon Tetrachloride	6.905	117	363053m	41.07 ug/L	
38) 1,1,1-Trichloroethane	6.964	97	453790	40.58 ug/L	96
39) 2-Butanone	6.999	43	686089	220.08 ug/L	99
40) 1,1-Dichloropropene	7.082	75	373023	41.26 ug/L	97
41) tert-Butyl Formate	7.164	59	3143854	423.35 ug/L	98
42) Propionitrile	7.305	54	431639	444.27 ug/L	88
43) Methacrylonitrile	7.334	41	1861852	465.99 ug/L	98
44) Benzene	7.334	78	962586	40.60 ug/L	95
45) TAME	7.411	73	915710	43.32 ug/L	99
47) 1,2-Dichloroethane	7.522	62	421201	42.98 ug/L	97
48) Trichloroethene	7.910	95	281548	40.61 ug/L	96
49) Methylcyclohexane	7.934	83	525343	42.33 ug/L	94
50) Dibromomethane	8.333	93	182179	43.37 ug/L	99
51) 1,2-Dichloropropane	8.421	63	320208	43.43 ug/L	94
52) Bromodichloromethane	8.468	83	383804	41.75 ug/L	99
53) Methyl methacrylate	8.568	41	317574	46.99 ug/L	95
54) 2-Chloroethyl vinyl ether	8.985	63	970331	221.78 ug/L	98
55) cis-1,3-Dichloropropene	9.085	75	489368	43.41 ug/L	97
58) Toluene	9.332	91	1071065	40.69 ug/L	99
59) 2-Nitropropane	9.532	41	387931	223.49 ug/L	97
60) 4-Methyl-2-pentanone	9.649	43	1523835	215.40 ug/L	98
61) trans-1,3-Dichloropropene	9.714	75	417677	43.23 ug/L	93
62) Tetrachloroethene	9.731	166	271694	33.95 ug/L	95
63) Ethyl methacrylate	9.820	69	422551	46.21 ug/L	96
64) 1,1,2-Trichloroethane	9.878	83	213579	43.85 ug/L	98
65) Dibromochloromethane	10.078	129	282599	43.27 ug/L	96
66) 1,3-Dichloropropane	10.160	76	452386	41.96 ug/L	96
67) 1,2-Dibromoethane	10.342	107	254273	41.85 ug/L	100
68) 2-hexanone	10.466	43	1094435	229.09 ug/L	96
69) 1-Chlorohexane	10.771	91	417614	42.72 ug/L	96
70) Ethylbenzene	10.842	91	1194820	40.48 ug/L	100
71) Chlorobenzene	10.842	112	742252	40.99 ug/L	98
72) 1,1,1,2-Tetrachloroethane	10.889	131	268787	40.26 ug/L	96
73) m,p-Xylene	10.977	91	1917197	79.37 ug/L	97
74) o-Xylene	11.418	91	1122567	41.47 ug/L	99
75) Styrene	11.465	104	798719	42.72 ug/L	97
76) Bromoform	11.523	173	191378	41.78 ug/L	98
77) Isopropylbenzene	11.723	105	1303311	41.33 ug/L	99
80) cis-1,4-Dichloro-2-butene	12.064	53	103325	44.37 ug/L	95
81) n-Propylbenzene	12.140	91	1574087	40.79 ug/L	96
82) Bromobenzene	12.164	156	323905	40.27 ug/L	100
83) 1,1,2,2-Tetrachloroethane	12.199	83	354605	42.04 ug/L	95
84) 1,3,5-Trimethylbenzene	12.323	105	1061759	41.51 ug/L	98
85) 2-Chlorotoluene	12.328	91	1059197	40.34 ug/L	99
86) trans-1,4-Dichloro-2-B...	12.381	53	113057	44.08 ug/L	94
87) 1,2,3-Trichloropropane	12.364	110	95907	44.04 ug/L	94
88) Cyclohexanone	12.428	55	80341	242.55 ug/L	99
89) 4-Chlorotoluene	12.499	91	1051281	41.96 ug/L	97
90) a-Methyl Styrene	12.587	118	705458	44.18 ug/L	99

SGS ACCUTEST FA39742

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\010317\
Data File : J0981914.D
Acq On : 3 Jan 2017 9:16 am
Operator : darshnap
Sample : cc5529-5 Inst : MSVOA6
Misc : MS35465,VJ5530,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 03 10:53:38 2017
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jan 03 08:23:52 2017
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
91)	tert-Butylbenzene	12.663	91	663508	39.79	ug/L		96
92)	1,2,4-Trimethylbenzene	12.734	105	1032592	40.75	ug/L		100
93)	Pentachloroethane	12.716	167	230088	46.34	ug/L		96
94)	sec-Butylbenzene	12.845	105	1439390	41.48	ug/L		97
95)	4-Isopropyltoluene	12.981	119	1140248	41.69	ug/L		96
96)	1,3-Dichlorobenzene	13.116	146	690342	42.14	ug/L		95
97)	1,4-Dichlorobenzene	13.198	146	680636	40.03	ug/L		99
98)	n-Butylbenzene	13.415	92	708643	42.47	ug/L		87
99)	Benzyl Chloride	13.427	126	157504	45.61	ug/L	#	79
100)	1,2-Dichlorobenzene	13.627	146	678846	41.14	ug/L		97
101)	1,2-Dibromo-3-Chloropr...	14.361	75	70484	42.22	ug/L		93
102)	Hexachlorobutadiene	14.908	225	258280	37.13	ug/L		98
103)	1,2,4-Trichlorobenzene	14.955	180	450455	38.50	ug/L		98
104)	Naphthalene	15.237	128	969348	42.81	ug/L		98
105)	1,2,3-Trichlorobenzene	15.407	180	422822	38.93	ug/L		99
107)	Ethanol	4.250	45	69339m	964.46	ug/L		
108)	acrolein	4.737	56	278756	211.40	ug/L		96
109)	Tert Butyl Alcohol	5.354	59	317001	394.42	ug/L		96
110)	tert Amyl alcohol	7.552	59	259926	416.50	ug/L		97
111)	Isobutyl alcohol	7.428	42	216960	860.64	ug/L	#	86
112)	1,4-Dioxane	8.650	88	55945	843.59	ug/L		93
113)	3,3-Dimethyl-1-butanol	10.413	57	1368056	2111.94	ug/L		99

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

7.6.23

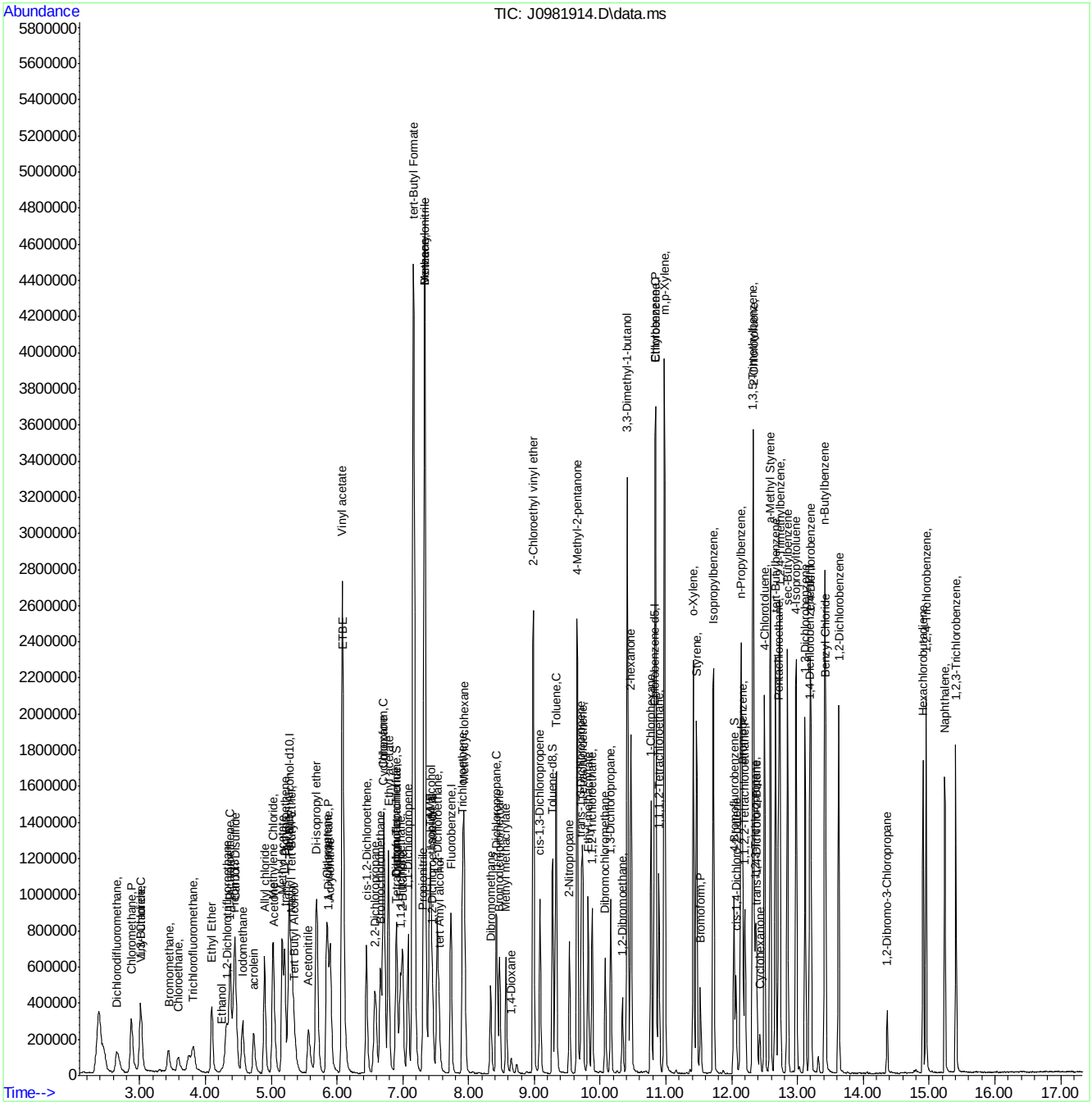
7

SGS ACCUTEST FA39742

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\010317\
Data File : J0981914.D
Acq On : 3 Jan 2017 9:16 am
Operator : darshnap
Sample : cc5529-5 Inst : MSVOA6
Misc : MS35465,VJ5530,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 03 10:53:38 2017
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jan 03 08:23:52 2017
Response via : Initial Calibration



SGS ACCUTEST FA39742

Manual Integration Approval Summary

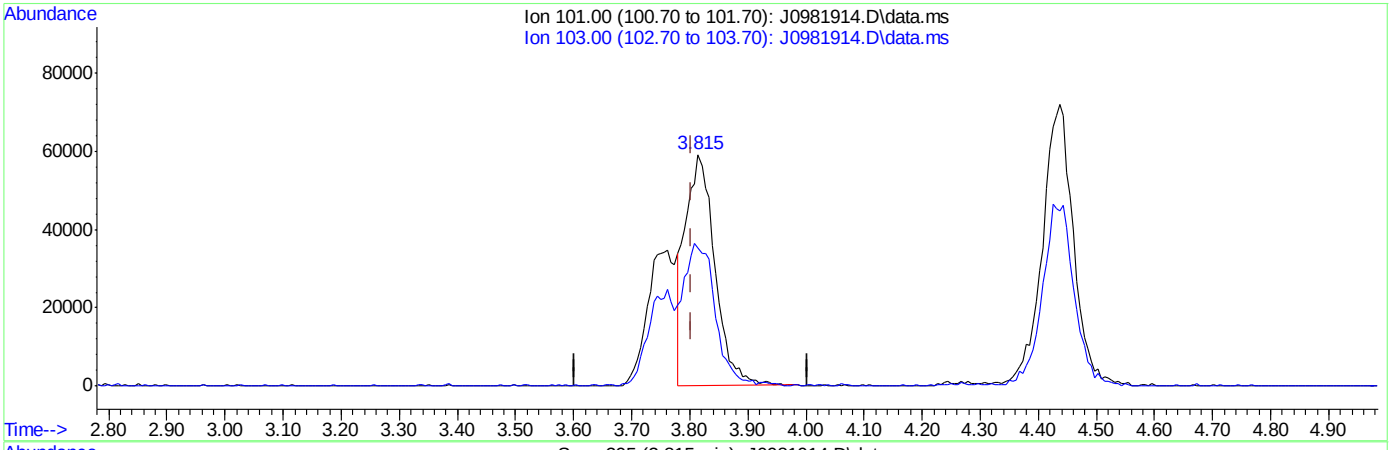
Sample Number:	VJ5530-CC5529	**Method:**	SW846 8260B
Lab FileID:	J0981914.D	**Analyst approved:**	01/03/17 10:58 Darshna Patel
Injection Time:	01/03/17 09:16	**Supervisor approved:**	01/04/17 11:16 Juan Garcia

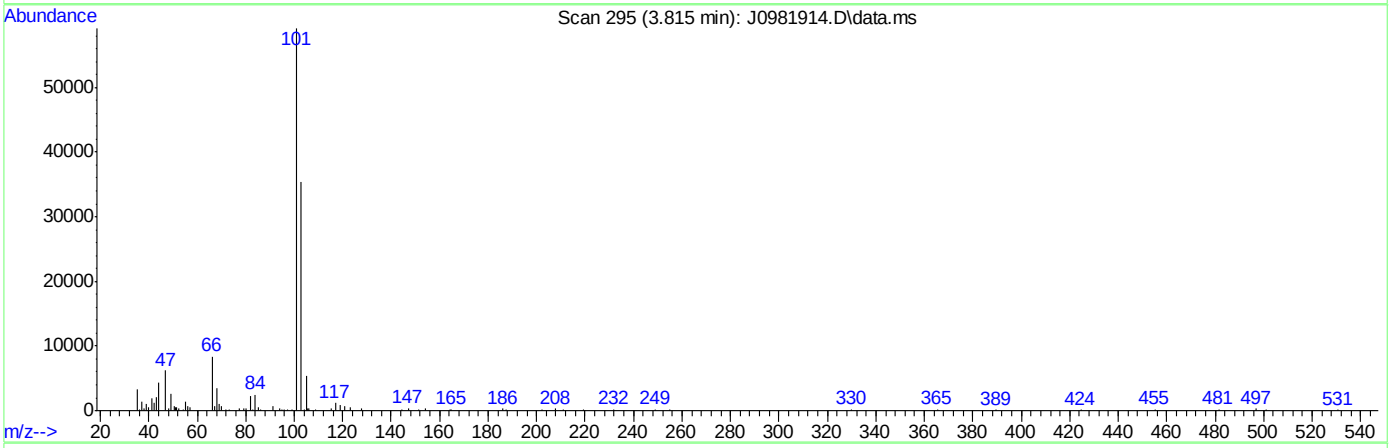
Parameter	CAS	Sig#	R.T. (min.)	Reason
Trichlorofluoromethane	75-69-4		3.81	Split peak
Ethyl Alcohol	64-17-5		4.25	Poor instrument integration
Carbon Tetrachloride	56-23-5		6.91	Overlapping peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\010317\
Data File : J0981914.D
Acq On : 3 Jan 2017 9:16 am
Operator : darshnap
Sample : cc5529-5 Inst : MSVOA6
Misc : MS35465,VJ5530,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 03 09:34:33 2017
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jan 03 08:23:52 2017
Response via : Initial Calibration





TIC: J0981914.D\data.ms

(8) Trichlorofluoromethane ( )

3.815min (+0.012) 23.78ug/L

response 205469

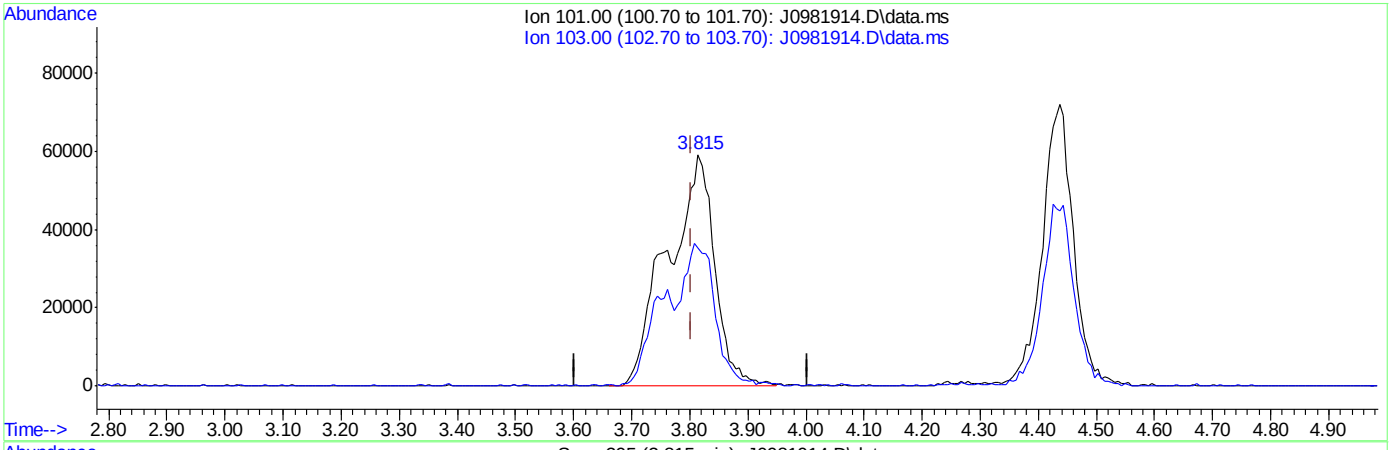
Ion	Exp%	Act%
101.00	100	100
103.00	55.20	59.46
0.00	0.00	0.00
0.00	0.00	0.00

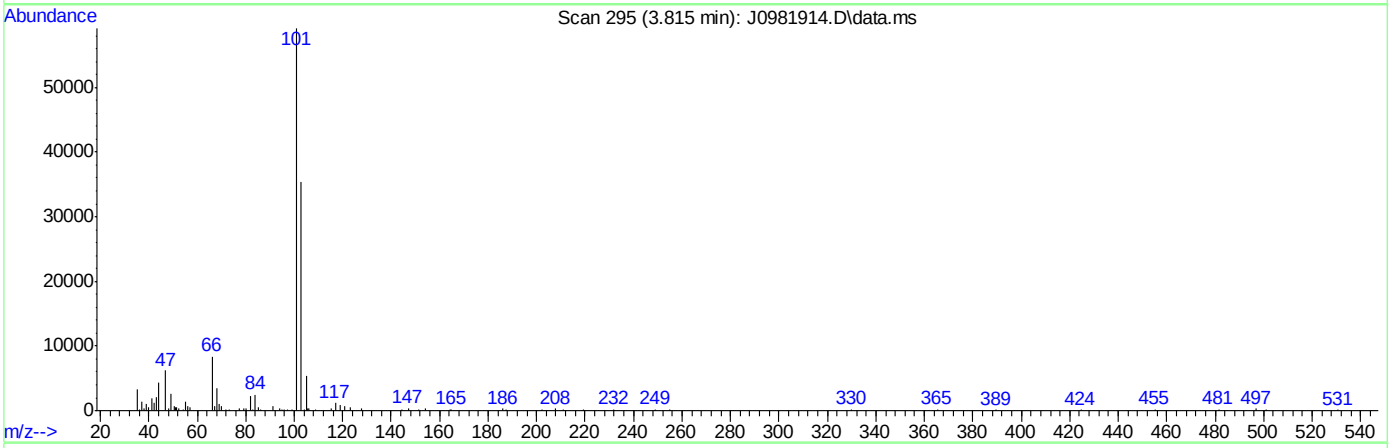
SGS ACCUTEST FA39742

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\010317\
Data File : J0981914.D
Acq On : 3 Jan 2017 9:16 am
Operator : darshnap
Sample : cc5529-5 Inst : MSVOA6
Misc : MS35465,VJ5530,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 03 09:34:33 2017
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jan 03 08:23:52 2017
Response via : Initial Calibration





TIC: J0981914.D\data.ms

(8) Trichlorofluoromethane ( )

3.815min (+0.012) 38.23ug/L m

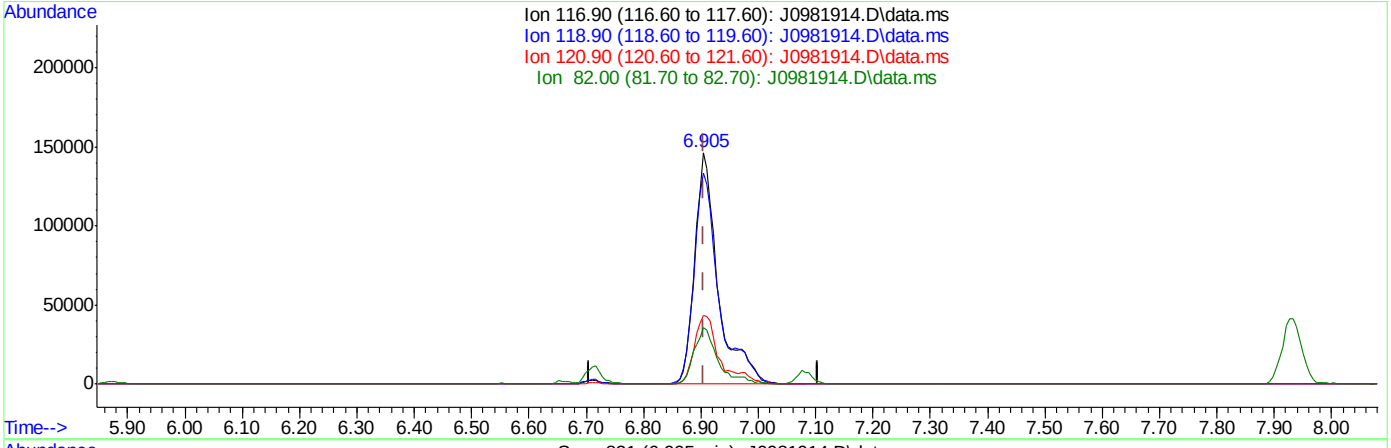
response 330272

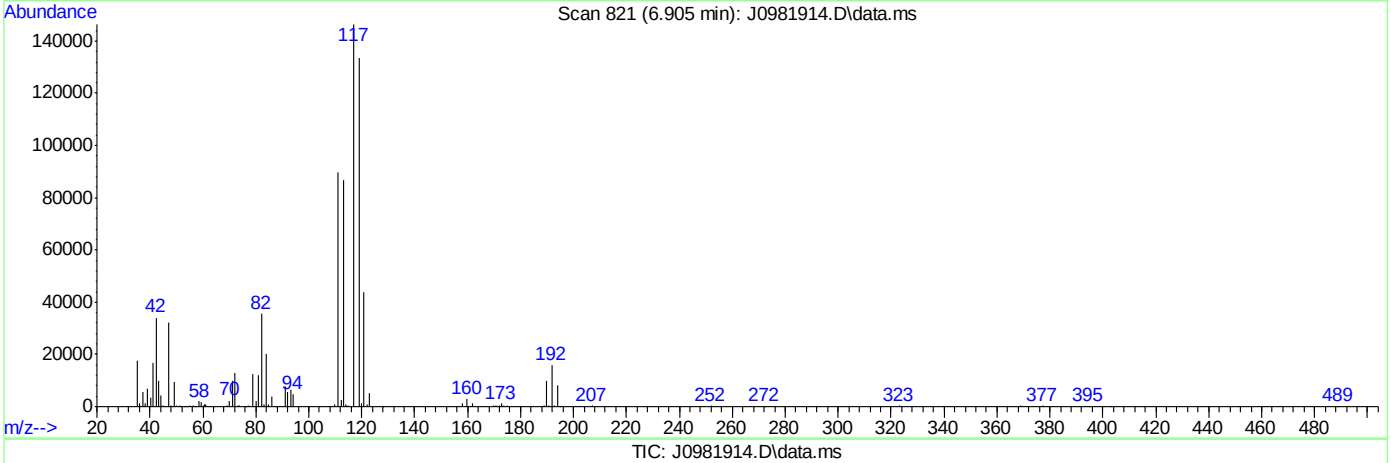
Ion	Exp%	Act%
101.00	100	100
103.00	55.20	59.71
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\010317\
Data File : J0981914.D
Acq On : 3 Jan 2017 9:16 am
Operator : darshnap
Sample : cc5529-5 Inst : MSVOA6
Misc : MS35465,VJ5530,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 03 09:34:33 2017
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jan 03 08:23:52 2017
Response via : Initial Calibration





TIC: J0981914.D\data.ms

(37) Carbon Tetrachloride ( )

6.905min (+0.000) 46.63ug/L

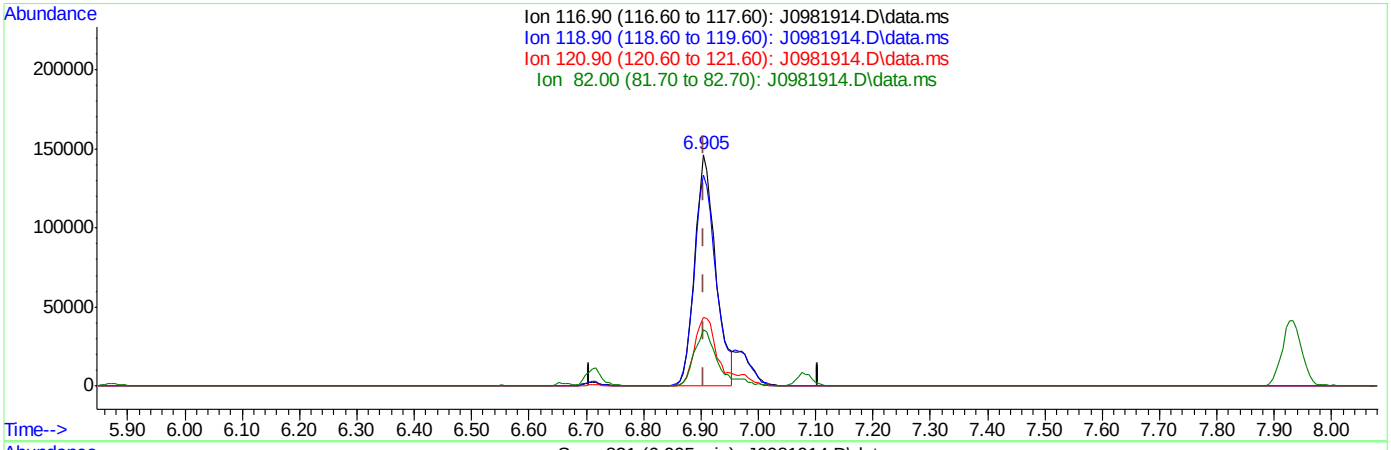
response 412225

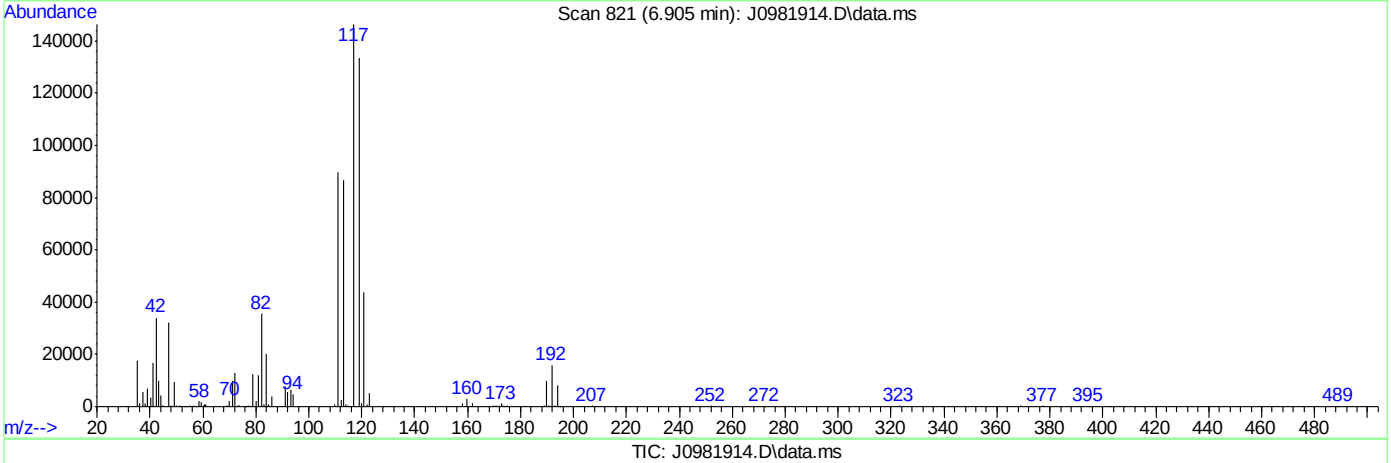
Ion	Exp%	Act%
116.90	100	100
118.90	91.30	91.06
120.90	30.80	29.89
82.00	23.30	24.23

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\010317\
Data File : J0981914.D
Acq On : 3 Jan 2017 9:16 am
Operator : darshnap
Sample : cc5529-5 Inst : MSVOA6
Misc : MS35465,VJ5530,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 03 09:34:33 2017
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jan 03 08:23:52 2017
Response via : Initial Calibration





TIC: J0981914.D\data.ms

(37) Carbon Tetrachloride ( )

6.905min (+0.000) 41.07ug/L m

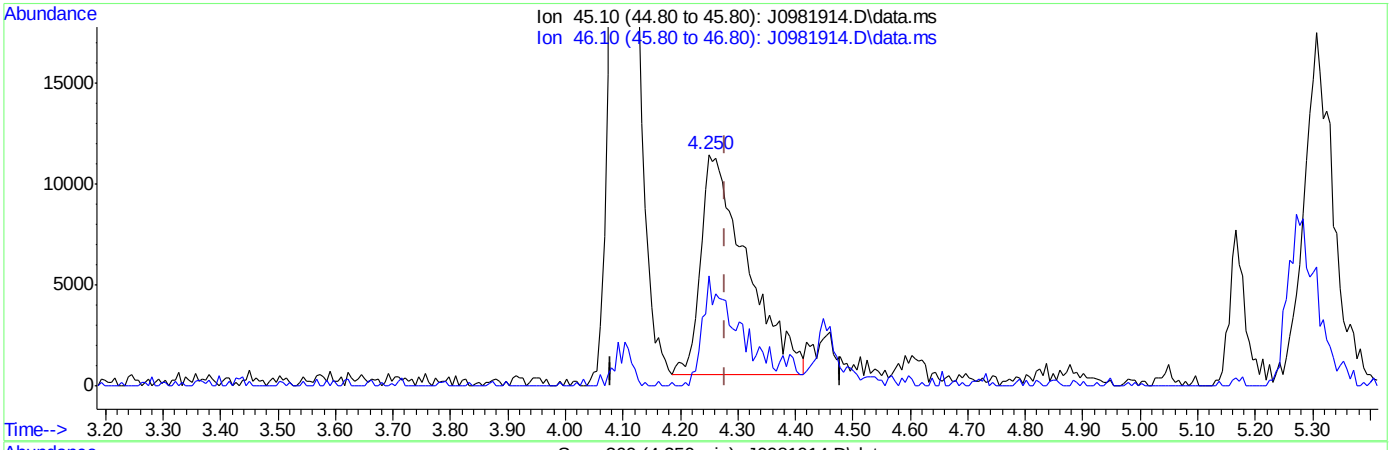
response 363053

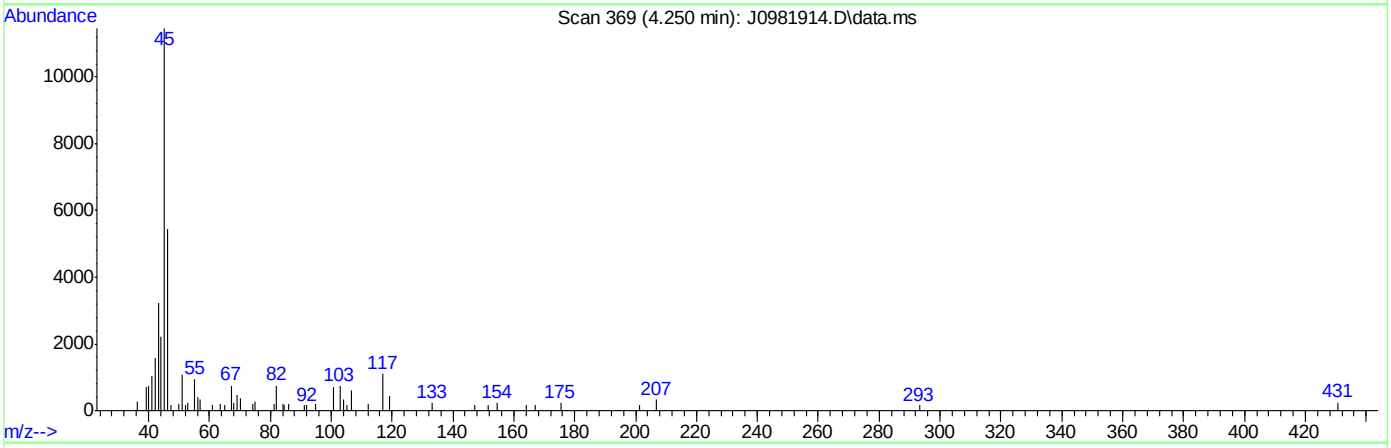
Ion	Exp%	Act%
116.90	100	100
118.90	91.30	91.17
120.90	30.80	29.89
82.00	23.30	24.23

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\010317\
Data File : J0981914.D
Acq On : 3 Jan 2017 9:16 am
Operator : darshnap
Sample : cc5529-5 Inst : MSVOA6
Misc : MS35465,VJ5530,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 03 09:34:33 2017
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jan 03 08:23:52 2017
Response via : Initial Calibration





TIC: J0981914.D\data.ms

(107) Ethanol

4.250min (-0.029) 848.68ug/L

response 61011

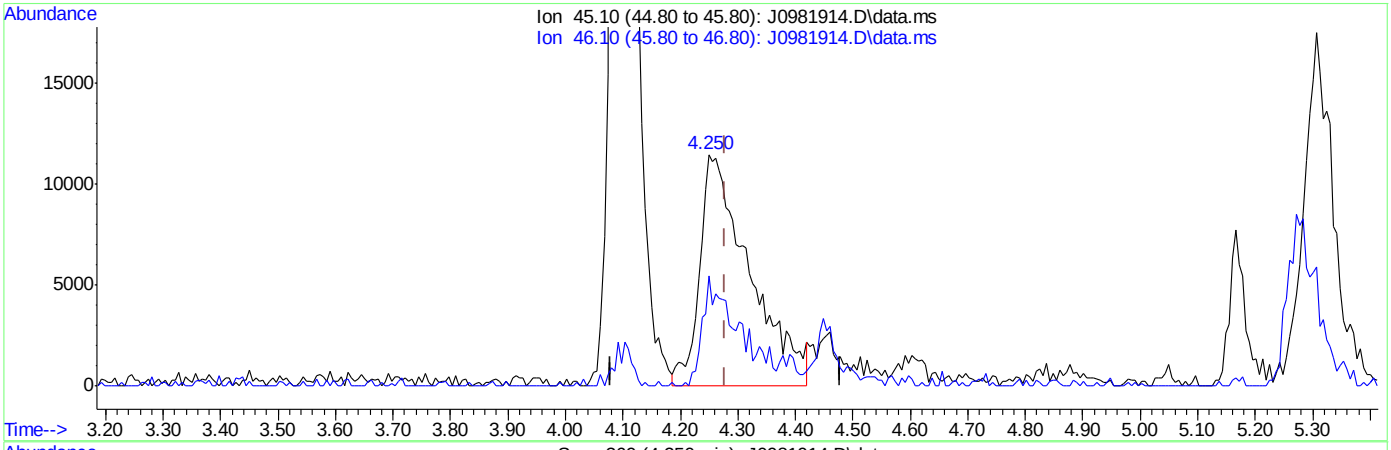
Ion	Exp%	Act%
45.10	100	100
46.10	41.60	48.26
0.00	0.00	0.00
0.00	0.00	0.00

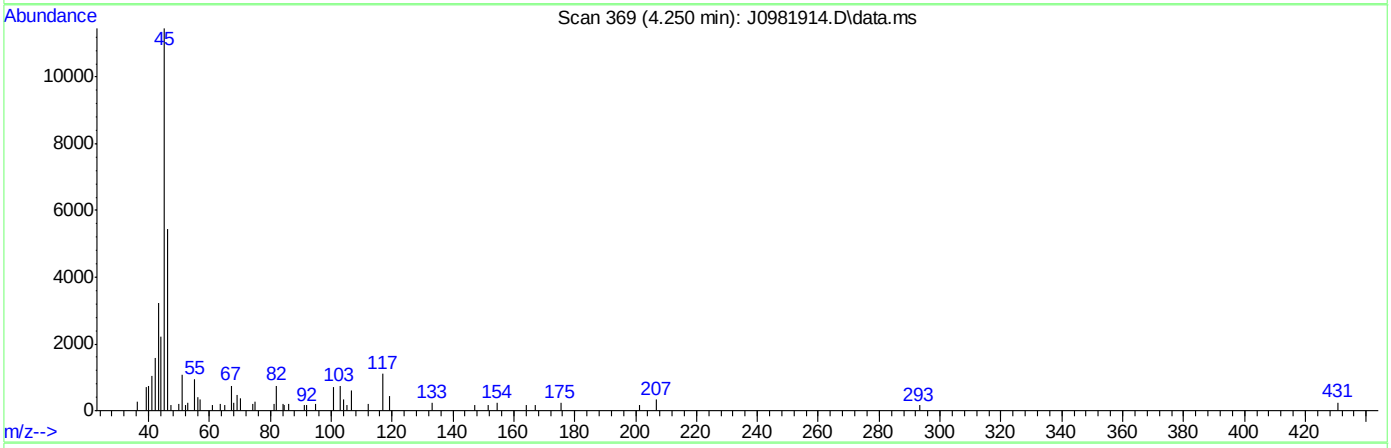
SGS ACCUTEST FA39742

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\010317\
Data File : J0981914.D
Acq On : 3 Jan 2017 9:16 am
Operator : darshnap
Sample : cc5529-5 Inst : MSVOA6
Misc : MS35465,VJ5530,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 03 09:34:33 2017
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jan 03 08:23:52 2017
Response via : Initial Calibration





TIC: J0981914.D\data.ms

(107) Ethanol

4.250min (-0.029) 964.46ug/L m

response 69339

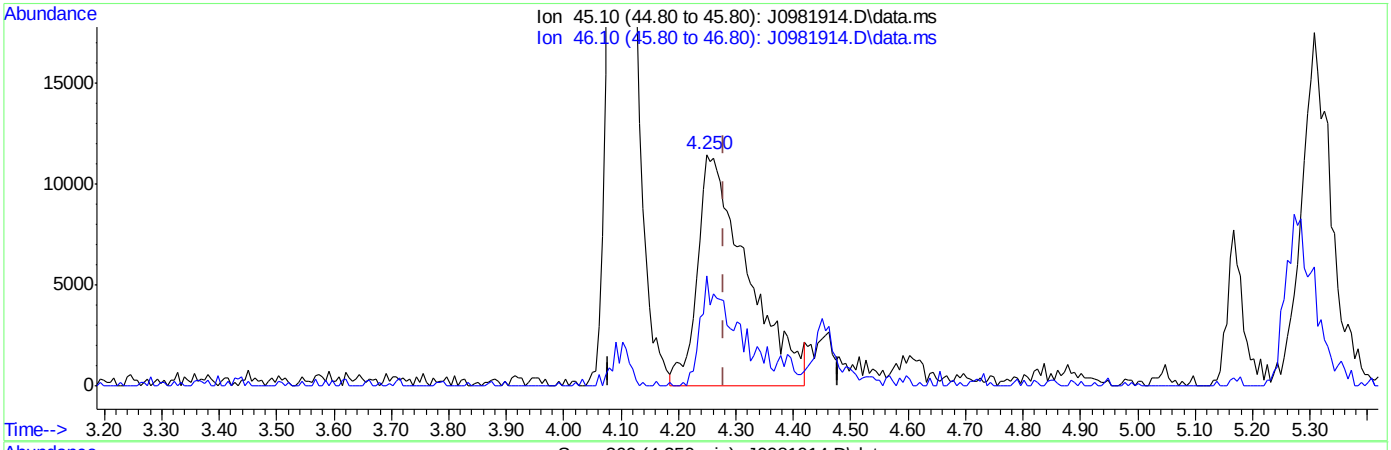
Ion	Exp%	Act%
45.10	100	100
46.10	41.60	47.56
0.00	0.00	0.00
0.00	0.00	0.00

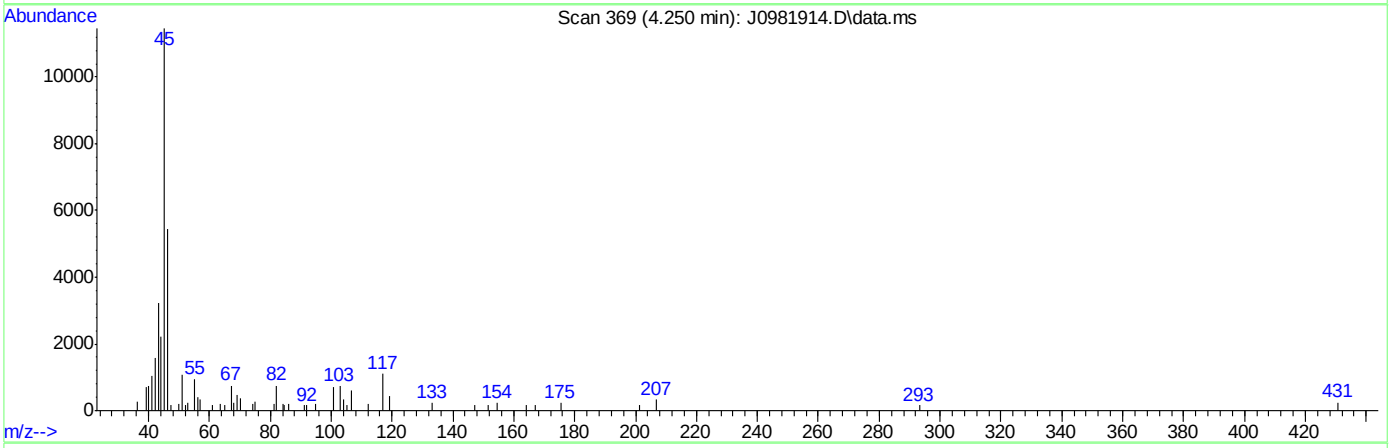
SGS ACCUTEST FA39742

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\010317\
Data File : J0981914.D
Acq On : 3 Jan 2017 9:16 am
Operator : darshnap
Sample : cc5529-5 Inst : MSVOA6
Misc : MS35465,VJ5530,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 03 10:53:38 2017
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jan 03 08:23:52 2017
Response via : Initial Calibration





TIC: J0981914.D\data.ms

(107) Ethanol

4.250min (-0.029) 964.46ug/L m

response 69339

Ion	Exp%	Act%
45.10	100	100
46.10	41.60	47.56
0.00	0.00	0.00
0.00	0.00	0.00

SGS ACCUTEST FA39742

Manual Integrations
APPROVED
(compounds with "m" flag)
Juan Garcia
01/04/17 11:08

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\010317\
Data File : J0981915.D
Acq On : 3 Jan 2017 9:52 am
Operator : darshnap
Sample : icv5529-5 Inst : MSVOA6
Misc : MS35465,VJ5529,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 04 09:52:14 2017
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jan 03 09:58:33 2017
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.728	96	759554	50.00	ug/L	0.00
56) Chlorobenzene-d5	10.824	117	524481	50.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	13.186	152	292682	50.00	ug/L	0.00
106) Tert Butyl Alcohol-d10	5.278	65	95563	250.00	ug/L	0.00
System Monitoring Compounds						
36) Dibromofluoromethane	6.905	113	174786m	48.75	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 97.50%			
46) 1,2-Dichloroethane-d4	7.458	65	242115	50.21	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 100.42%			
57) Toluene-d8	9.279	98	704614	50.59	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 101.18%			
79) 4-Bromofluorobenzene	12.035	95	305136	52.27	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 104.54%			
Target Compounds						Qvalue
4) Vinyl Chloride	3.022	62	243583m	33.52	ug/L	
11) 1,1-Dichloroethene	4.373	61	469397	42.35	ug/L	98
41) tert-Butyl Formate	7.164	59	3612818	475.81	ug/L	99
105) 1,2,3-Trichlorobenzene	15.407	180	508298	46.13	ug/L	97
109) Tert Butyl Alcohol	5.360	59	326965	418.29	ug/L	93

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

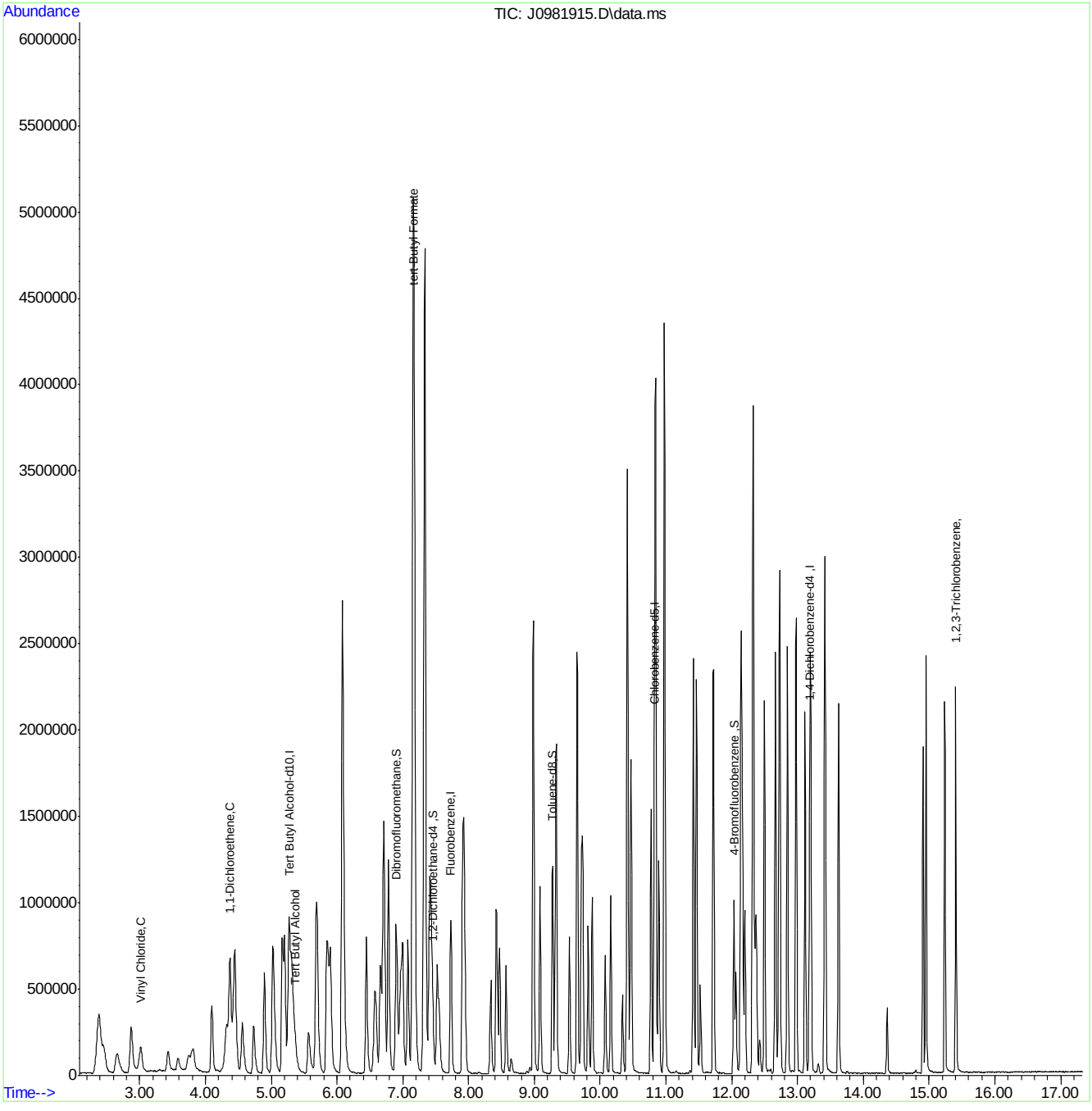
7.6.24
7

SGS ACCUTEST FA39742

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\010317\
Data File : J0981915.D
Acq On : 3 Jan 2017 9:52 am
Operator : darshnap
Sample : icv5529-5 Inst : MSVOA6
Misc : MS35465,VJ5529,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 04 09:52:14 2017
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jan 03 09:58:33 2017
Response via : Initial Calibration



MSJ123016.M Wed Jan 04 10:49:50 2017 Page: 2

Manual Integration Approval Summary

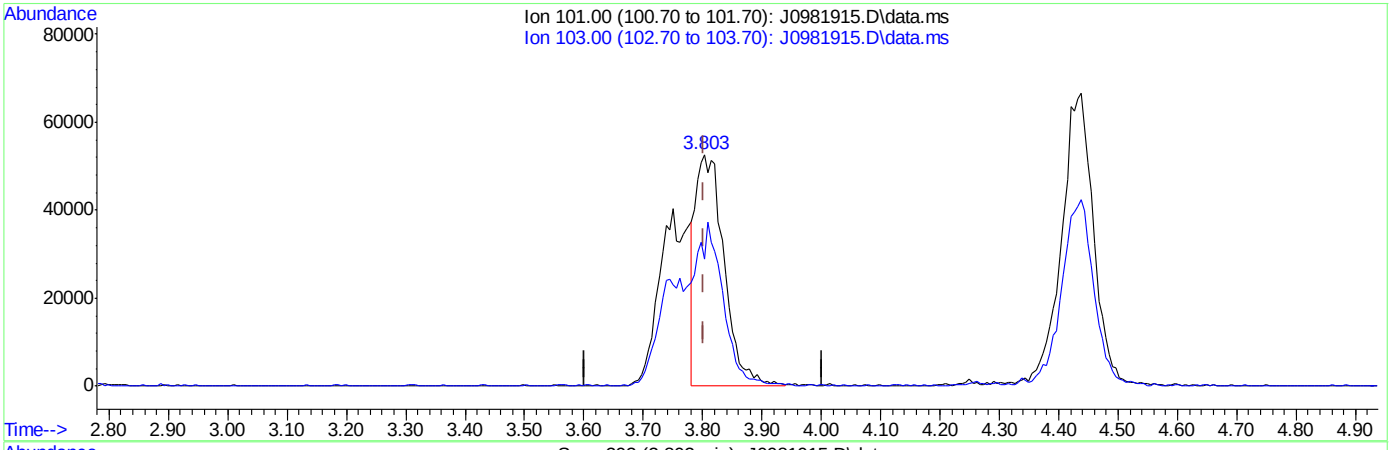
Sample Number:	VJ5529-ICV5529	**Method:**	SW846 8260B
Lab FileID:	J0981915.D	**Analyst approved:**	01/04/17 10:51 Darshna Patel
Injection Time:	01/03/17 09:52	**Supervisor approved:**	01/04/17 11:08 Juan Garcia

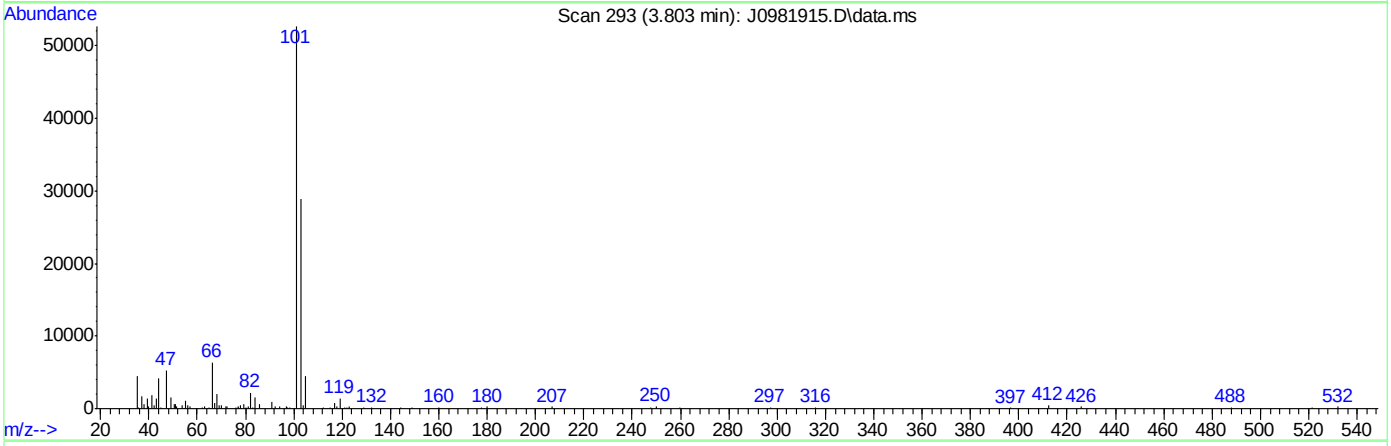
Parameter	CAS	Sig#	R.T. (min.)	Reason
Vinyl Chloride	75-01-4		3.02	Poor instrument integration
Dibromofluoromethane	1868-53-7		6.91	Poor instrument integration

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\010317\
Data File : J0981915.D
Acq On : 3 Jan 2017 9:52 am
Operator : darshnap
Sample : icv5529-5 Inst : MSVOA6
Misc : MS35465,VJ5530,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 03 10:10:09 2017
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jan 03 09:58:33 2017
Response via : Initial Calibration





TIC: J0981915.D\data.ms

(8) Trichlorofluoromethane ( )

3.803min (+0.000) 19.97ug/L

response 176422

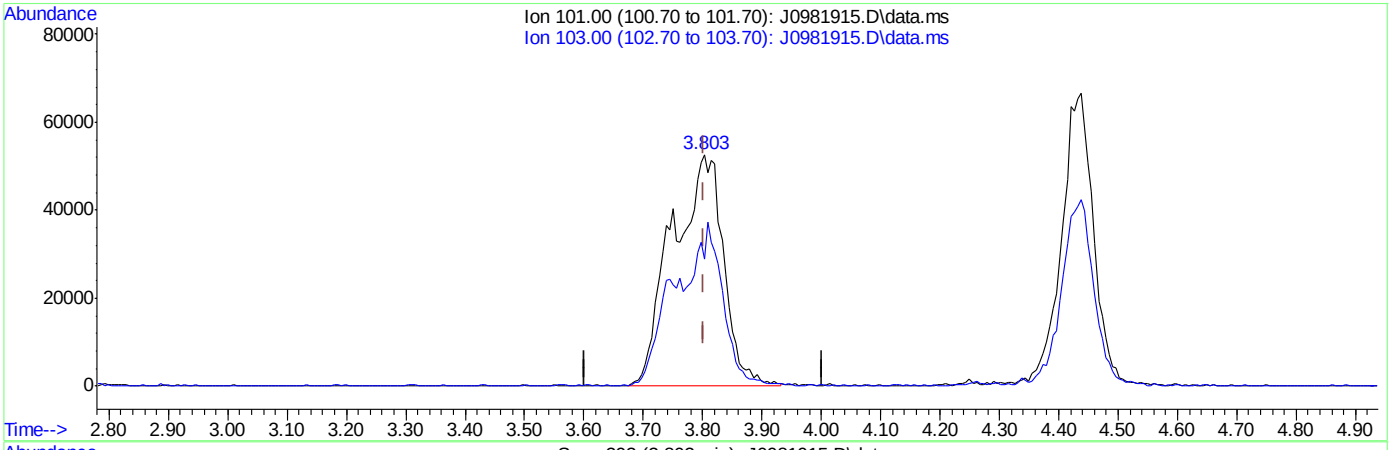
Ion	Exp%	Act%
101.00	100	100
103.00	55.20	54.80
0.00	0.00	0.00
0.00	0.00	0.00

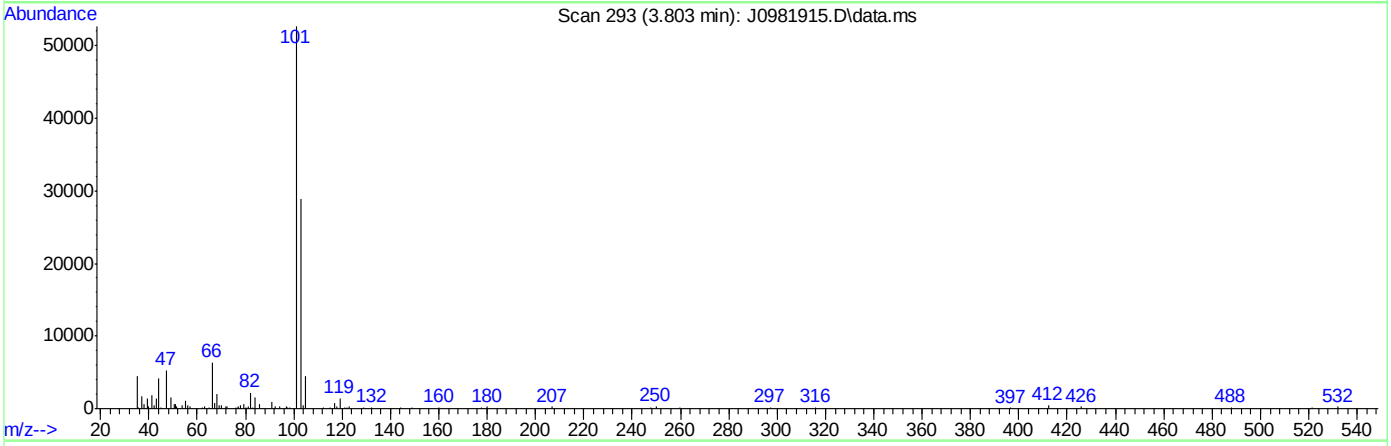
SGS ACCUTEST FA39742

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\010317\
Data File : J0981915.D
Acq On : 3 Jan 2017 9:52 am
Operator : darshnap
Sample : icv5529-5 Inst : MSVOA6
Misc : MS35465,VJ5530,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 03 10:10:09 2017
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jan 03 09:58:33 2017
Response via : Initial Calibration





TIC: J0981915.D\data.ms

(8) Trichlorofluoromethane ( )

3.803min (+0.000) 35.72ug/L m

response 315524

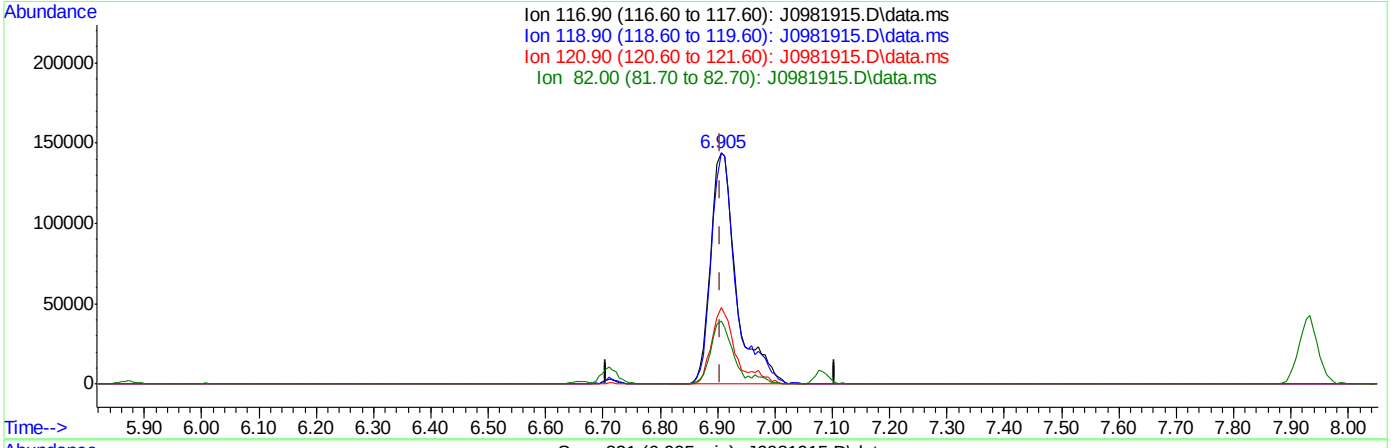
Ion	Exp%	Act%
101.00	100	100
103.00	55.20	54.94
0.00	0.00	0.00
0.00	0.00	0.00

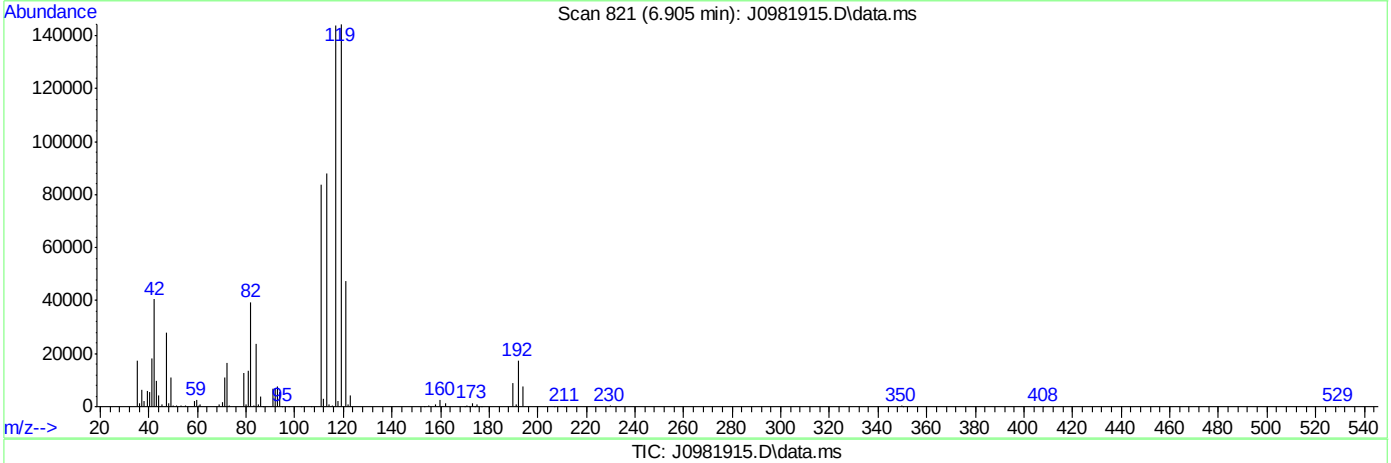
SGS ACCUTEST FA39742

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\010317\
Data File : J0981915.D
Acq On : 3 Jan 2017 9:52 am
Operator : darshnap
Sample : icv5529-5 Inst : MSVOA6
Misc : MS35465,VJ5530,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 03 10:10:09 2017
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jan 03 09:58:33 2017
Response via : Initial Calibration





TIC: J0981915.D\data.ms

(37) Carbon Tetrachloride ( )

6.905min (+0.000) 48.14ug/L

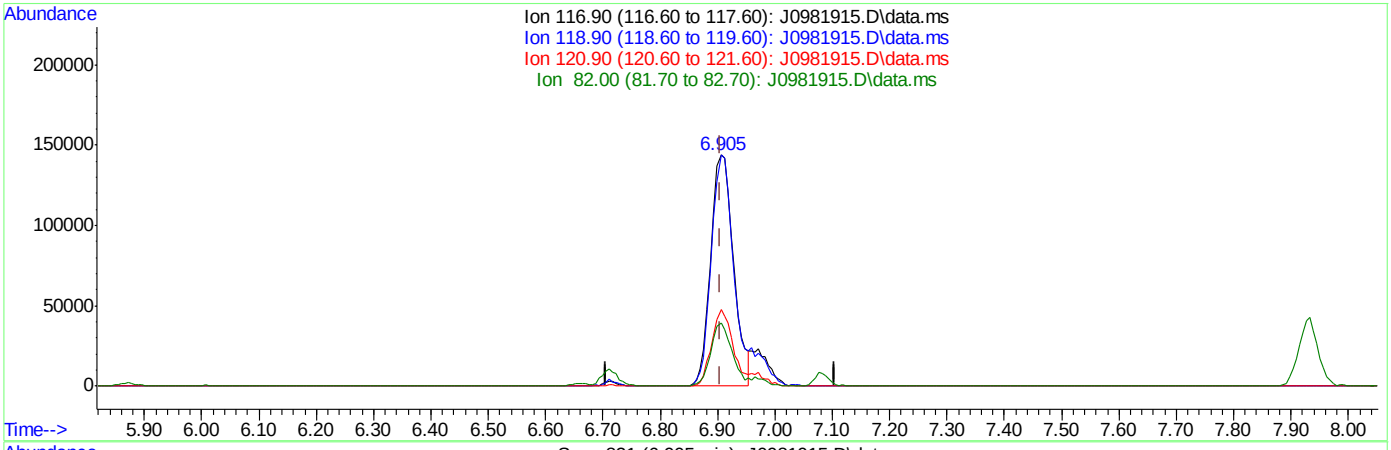
response 435174

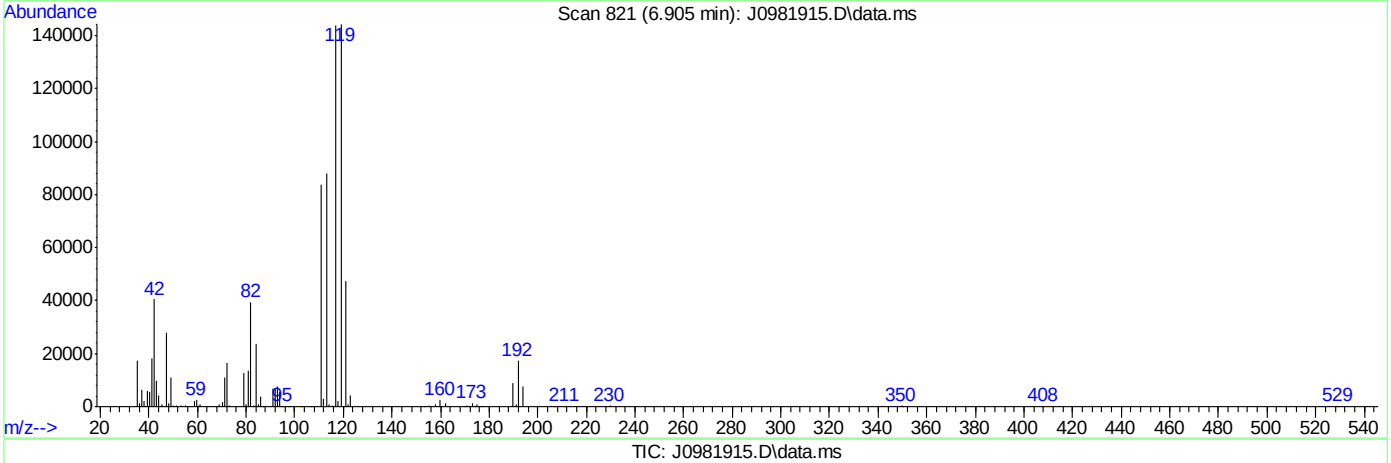
Ion	Exp%	Act%
116.90	100	100
118.90	91.30	100.31
120.90	30.80	33.03
82.00	23.30	27.36

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\010317\
Data File : J0981915.D
Acq On : 3 Jan 2017 9:52 am
Operator : darshnap
Sample : icv5529-5 Inst : MSVOA6
Misc : MS35465,VJ5530,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 03 10:10:09 2017
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jan 03 09:58:33 2017
Response via : Initial Calibration





TIC: J0981915.D\data.ms

(37) Carbon Tetrachloride ( )

6.905min (+0.000) 42.51ug/L m

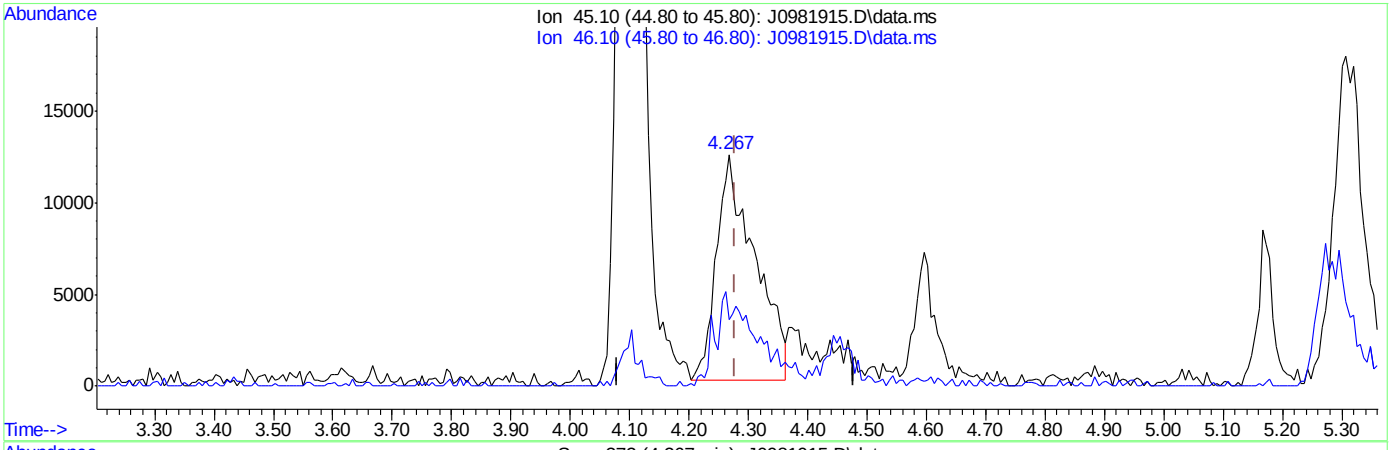
response 384290

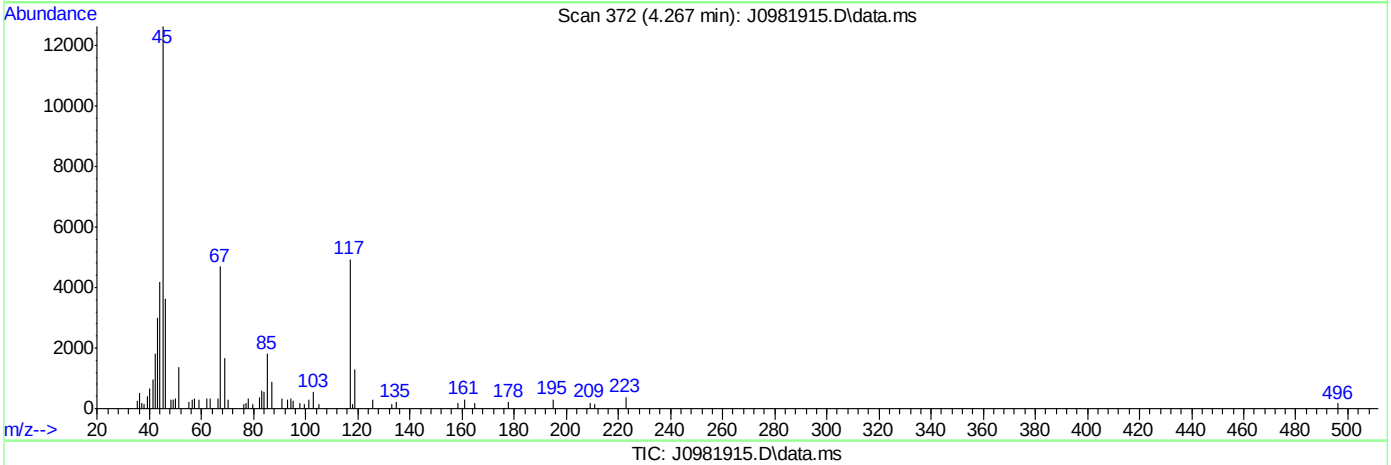
Ion	Exp%	Act%
116.90	100	100
118.90	91.30	100.31
120.90	30.80	33.03
82.00	23.30	27.36

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\010317\
Data File : J0981915.D
Acq On : 3 Jan 2017 9:52 am
Operator : darshnap
Sample : icv5529-5 Inst : MSVOA6
Misc : MS35465,VJ5530,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 03 10:10:09 2017
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jan 03 09:58:33 2017
Response via : Initial Calibration





TIC: J0981915.D\data.ms

(107) Ethanol

4.267min (-0.012) 757.98ug/L

response 54895

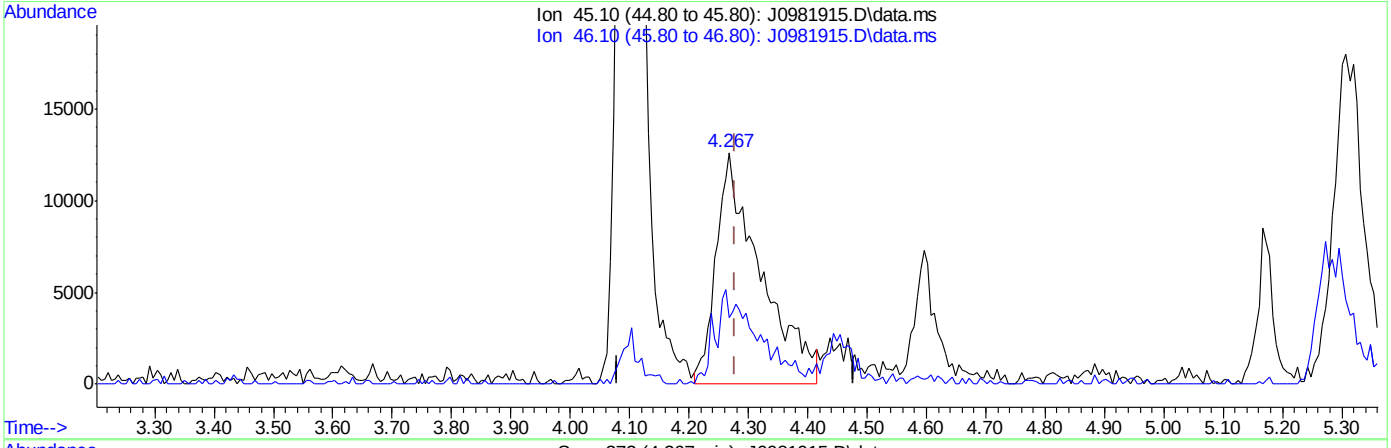
Ion	Exp%	Act%
45.10	100	100
46.10	41.60	28.29
0.00	0.00	0.00
0.00	0.00	0.00

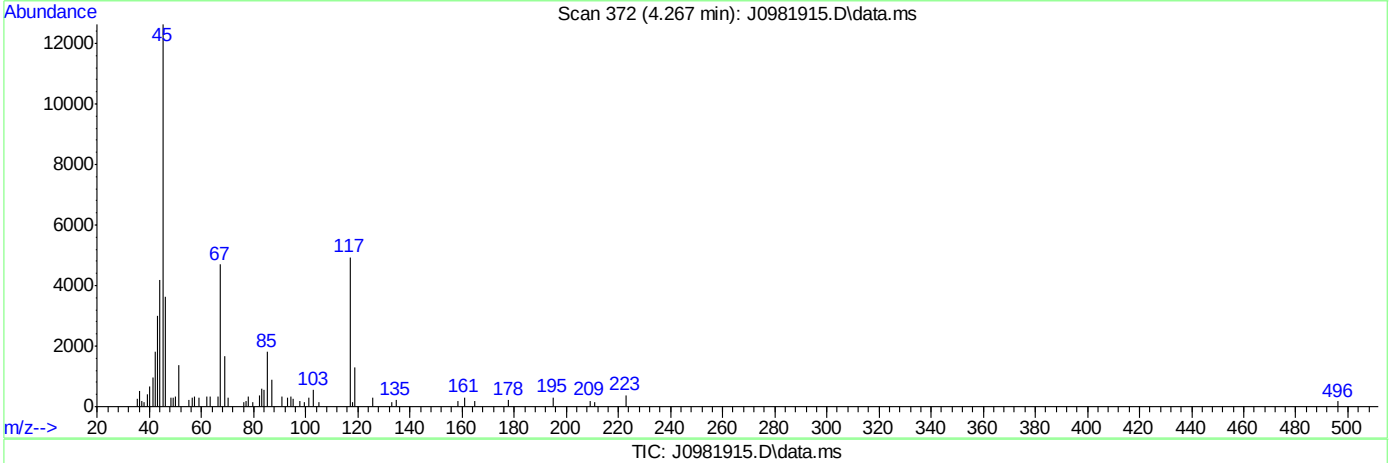
SGS ACCUTEST FA39742

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\010317\
Data File : J0981915.D
Acq On : 3 Jan 2017 9:52 am
Operator : darshnap
Sample : icv5529-5 Inst : MSVOA6
Misc : MS35465,VJ5530,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 03 10:10:09 2017
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jan 03 09:58:33 2017
Response via : Initial Calibration





TIC: J0981915.D\data.ms

(107) Ethanol

4.267min (-0.012) 905.95ug/L m

response 65617

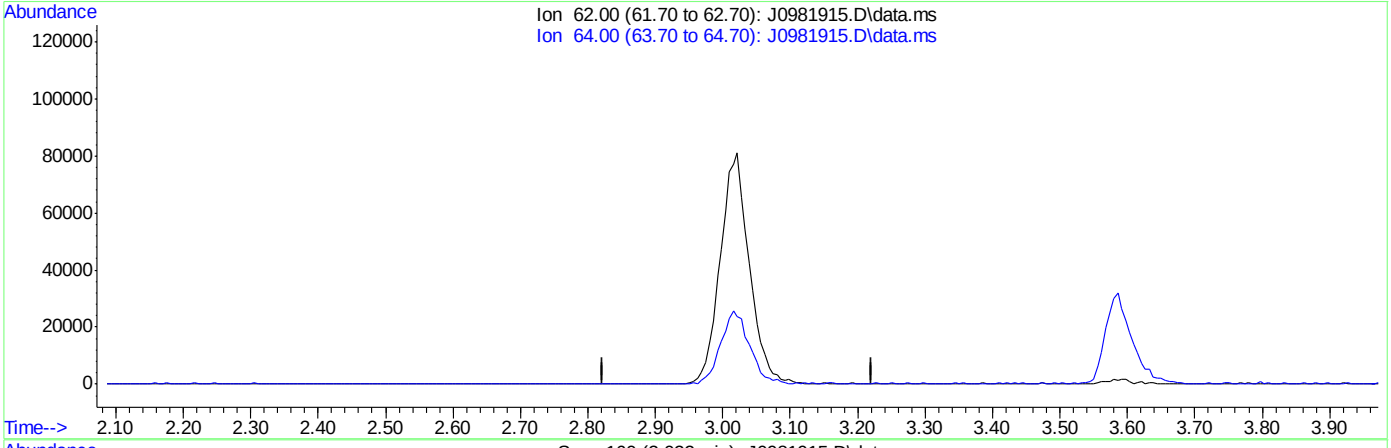
Ion	Exp%	Act%
45.10	100	100
46.10	41.60	28.84
0.00	0.00	0.00
0.00	0.00	0.00

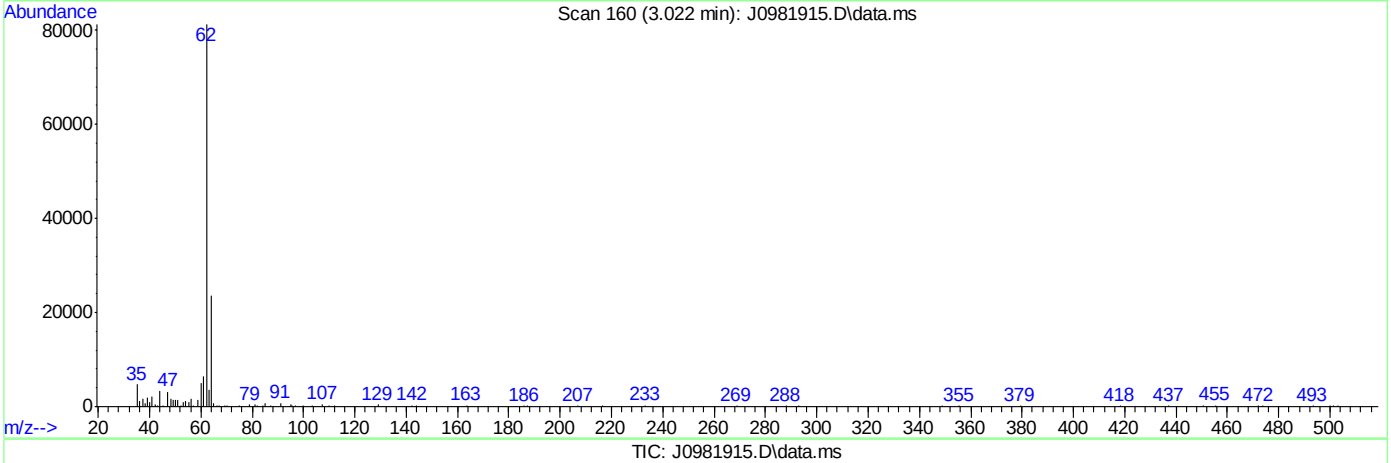
SGS ACCUTEST FA39742

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\010317\
Data File : J0981915.D
Acq On : 3 Jan 2017 9:52 am
Operator : darshnap
Sample : icv5529-5 Inst : MSVOA6
Misc : MS35465,VJ5530,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 03 10:17:09 2017
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jan 03 09:58:33 2017
Response via : Initial Calibration





TIC: J0981915.D\data.ms

(4) Vinyl Chloride (C)

3.022min 0.00ug/L d

response 0

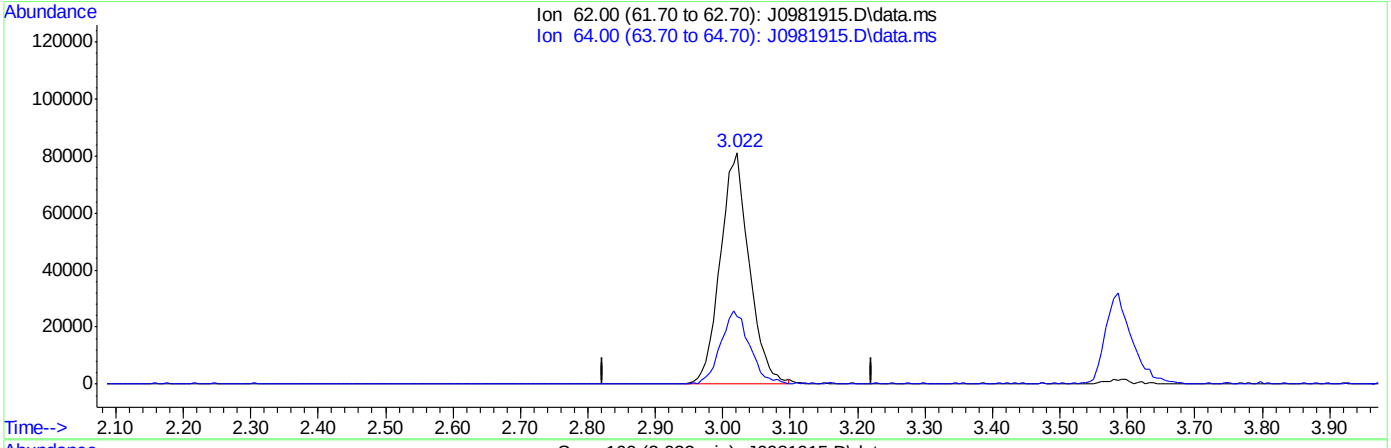
Ion	Exp%	Act%
62.00	100	0.00
64.00	28.90	0.00
0.00	0.00	0.00
0.00	0.00	0.00

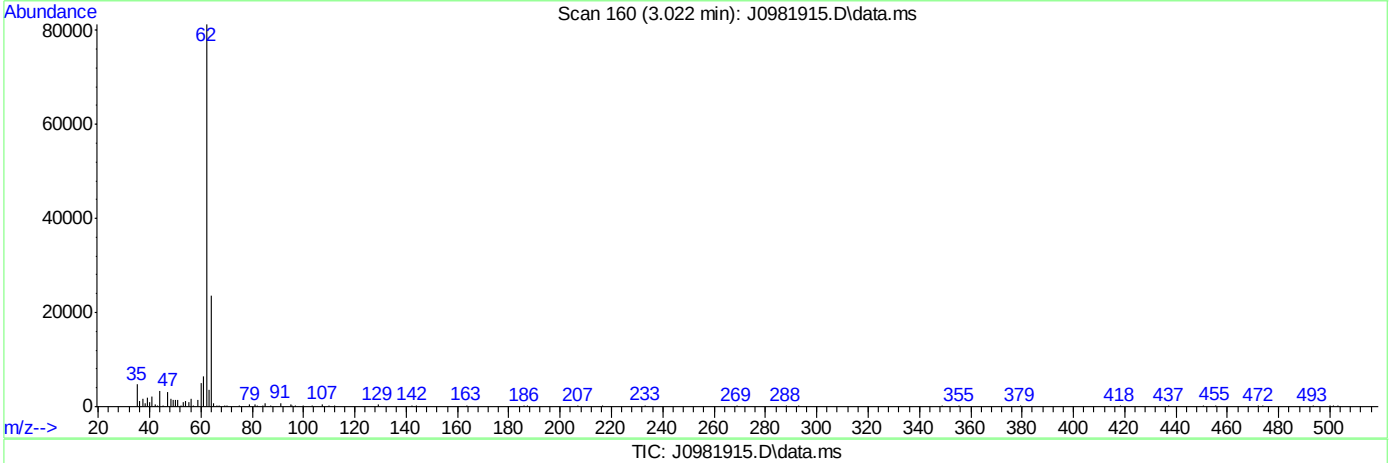
SGS ACCUTEST FA39742

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\010317\
Data File : J0981915.D
Acq On : 3 Jan 2017 9:52 am
Operator : darshnap
Sample : icv5529-5 Inst : MSVOA6
Misc : MS35465,VJ5530,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 03 10:17:09 2017
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jan 03 09:58:33 2017
Response via : Initial Calibration





TIC: J0981915.D\data.ms

(4) Vinyl Chloride (C)

3.022min (-0.000) 33.52ug/L m

response 243583

Ion	Exp%	Act%
62.00	100	100
64.00	28.90	29.13
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integrations APPROVED (compounds with "m" flag)
Juan Garcia
01/04/17 11:16

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\010317\
Data File : J0981943.D
Acq On : 3 Jan 2017 9:32 pm
Operator : darshnap
Sample : ecc5529-5 Inst : MSVOA6
Misc : MS35986,VJ5531,,,,,
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Jan 04 09:49:06 2017
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jan 03 09:58:33 2017
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.734	96	665139	50.00	ug/L	0.00
56) Chlorobenzene-d5	10.824	117	466783	50.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	13.186	152	254179	50.00	ug/L	0.00
106) Tert Butyl Alcohol-d10	5.284	65	88420	250.00	ug/L	0.00
System Monitoring Compounds						
36) Dibromofluoromethane	6.905	113	151498	48.25	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 96.50%			
46) 1,2-Dichloroethane-d4	7.458	65	224560	53.18	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 106.36%			
57) Toluene-d8	9.279	98	622613	50.22	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 100.44%			
79) 4-Bromofluorobenzene	12.035	95	267040	52.67	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 105.34%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.657	85	333143	46.05	ug/L	93
3) Chloromethane	2.869	50	474342	45.26	ug/L	95
4) Vinyl Chloride	3.016	62	290745	45.69	ug/L	92
5) 1,3-Butadiene	3.010	54	185448	45.84	ug/L	96
6) Bromomethane	3.439	94	116054	33.96	ug/L	95
7) Chloroethane	3.586	64	95507	40.10	ug/L	89
8) Trichlorofluoromethane	3.809	101	355295m	45.93	ug/L	
9) Ethyl Ether	4.097	59	267457	47.39	ug/L	98
10) 1,2-Dichlorotrifluoroe...	4.326	67	339695	48.68	ug/L	92
11) 1,1-Dichloroethene	4.373	61	468824	48.30	ug/L	96
12) Freon 113	4.438	101	279675	47.46	ug/L	90
13) Carbon Disulfide	4.449	76	945418	46.66	ug/L	100
14) Iodomethane	4.561	142	428542	41.57	ug/L	99
15) Allyl chloride	4.896	41	521031	44.79	ug/L	98
16) Methylene Chloride	5.025	49	471758	46.34	ug/L	96
17) Acetone	5.043	58	123558	230.86	ug/L #	73
18) Methyl acetate	5.172	74	210935	250.39	ug/L	96
19) trans-1,2-Dichloroethene	5.201	61	443074	46.99	ug/L	97
20) Hexane	5.272	56	296022	48.59	ug/L	87
21) Methyl Tert Butyl Ether	5.307	73	840700	44.91	ug/L	91
22) Acetonitrile	5.566	40	203001	463.59	ug/L	93
23) Di-isopropyl ether	5.689	45	1216996	48.40	ug/L	95
24) Chloroprene	5.848	53	486472	45.01	ug/L	95
25) 1,1-Dichloroethane	5.871	63	516804	45.82	ug/L	99
26) Acrylonitrile	5.901	53	567660	240.99	ug/L	95
27) ETBE	6.095	59	1061694	45.77	ug/L	98
28) Vinyl acetate	6.083	43	3002809	209.17	ug/L	99
29) cis-1,2-Dichloroethene	6.447	96	299089	42.95	ug/L	93
30) 2,2-Dichloropropane	6.582	77	384331	39.66	ug/L	99
31) Bromochloromethane	6.659	128	133072	41.66	ug/L	89
32) Cyclohexane	6.706	56	618744	48.88	ug/L	98
33) Chloroform	6.711	83	499115	43.62	ug/L	95
34) Ethyl acetate	6.782	43	1451307	249.25	ug/L	100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\010317\
Data File : J0981943.D
Acq On : 3 Jan 2017 9:32 pm
Operator : darshnap
Sample : ecc5529-5 Inst : MSVOA6
Misc : MS35986,VJ5531,,,,,
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Jan 04 09:49:06 2017
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jan 03 09:58:33 2017
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
35) Tetrahydrofuran	6.894	42	99343	52.03 ug/L	94
37) Carbon Tetrachloride	6.905	117	350166m	44.24 ug/L	
38) 1,1,1-Trichloroethane	6.970	97	450723	45.02 ug/L	98
39) 2-Butanone	6.999	43	636496	228.04 ug/L	97
40) 1,1-Dichloropropene	7.082	75	379249	46.85 ug/L	93
41) tert-Butyl Formate	7.164	59	2555767	384.37 ug/L	94
42) Propionitrile	7.311	54	387557	445.52 ug/L	98
43) Methacrylonitrile	7.334	41	1742187	490.66 ug/L	99
44) Benzene	7.334	78	959895	44.92 ug/L	99
45) TAME	7.411	73	874946	46.23 ug/L	94
47) 1,2-Dichloroethane	7.522	62	412542	47.01 ug/L	97
48) Trichloroethene	7.910	95	288806	46.52 ug/L	97
49) Methylcyclohexane	7.928	83	533153	47.98 ug/L	96
50) Dibromomethane	8.339	93	173187	46.05 ug/L	96
51) 1,2-Dichloropropane	8.427	63	312793	47.38 ug/L	94
52) Bromodichloromethane	8.474	83	357835	43.47 ug/L	97
53) Methyl methacrylate	8.568	41	288267	47.66 ug/L	97
54) 2-Chloroethyl vinyl ether	8.985	63	921854	235.32 ug/L	99
55) cis-1,3-Dichloropropene	9.085	75	447281	44.31 ug/L	94
58) Toluene	9.332	91	1049019	45.35 ug/L	98
59) 2-Nitropropane	9.532	41	363157	238.08 ug/L	97
60) 4-Methyl-2-pentanone	9.649	43	1477777	240.08 ug/L	98
61) trans-1,3-Dichloropropene	9.714	75	384525	45.28 ug/L	94
62) Tetrachloroethene	9.731	166	390388	55.69 ug/L	96
63) Ethyl methacrylate	9.820	69	365486	45.49 ug/L	94
64) 1,1,2-Trichloroethane	9.878	83	203721	47.60 ug/L	97
65) Dibromochloromethane	10.078	129	245530	42.78 ug/L	94
66) 1,3-Dichloropropane	10.160	76	448695	47.36 ug/L	94
67) 1,2-Dibromoethane	10.337	107	243411	45.59 ug/L	98
68) 2-hexanone	10.466	43	1031815	245.78 ug/L	98
69) 1-Chlorohexane	10.771	91	409056	47.61 ug/L	92
70) Ethylbenzene	10.842	91	1170547	45.13 ug/L	96
71) Chlorobenzene	10.842	112	689430	43.33 ug/L	93
72) 1,1,1,2-Tetrachloroethane	10.895	131	249279	40.72 ug/L	98
73) m,p-Xylene	10.977	91	1866780	89.10 ug/L	98
74) o-Xylene	11.418	91	1079547	45.39 ug/L	99
75) Styrene	11.465	104	751614	42.89 ug/L	95
76) Bromoform	11.524	173	157474	39.12 ug/L	96
77) Isopropylbenzene	11.723	105	1259345	45.45 ug/L	96
80) cis-1,4-Dichloro-2-butene	12.064	53	66845	32.83 ug/L	91
81) n-Propylbenzene	12.140	91	1533953	45.46 ug/L	94
82) Bromobenzene	12.164	156	292145	41.54 ug/L	98
83) 1,1,2,2-Tetrachloroethane	12.199	83	322163	43.68 ug/L	97
84) 1,3,5-Trimethylbenzene	12.323	105	1004385	44.91 ug/L	98
85) 2-Chlorotoluene	12.328	91	1022654	44.55 ug/L	99
86) trans-1,4-Dichloro-2-B...	12.381	53	86628	38.63 ug/L #	82
87) 1,2,3-Trichloropropane	12.364	110	89120	46.80 ug/L	94
88) Cyclohexanone	12.422	55	62243	214.27 ug/L	94
89) 4-Chlorotoluene	12.499	91	994903	45.42 ug/L	99
90) a-Methyl Styrene	12.587	118	606904	43.47 ug/L	97

SGS ACCUTEST FA39742

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\010317\
Data File : J0981943.D
Acq On : 3 Jan 2017 9:32 pm
Operator : darshnap
Sample : ecc5529-5 Inst : MSVOA6
Misc : MS35986,VJ5531,,,,,
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Jan 04 09:49:06 2017
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jan 03 09:58:33 2017
Response via : Initial Calibration

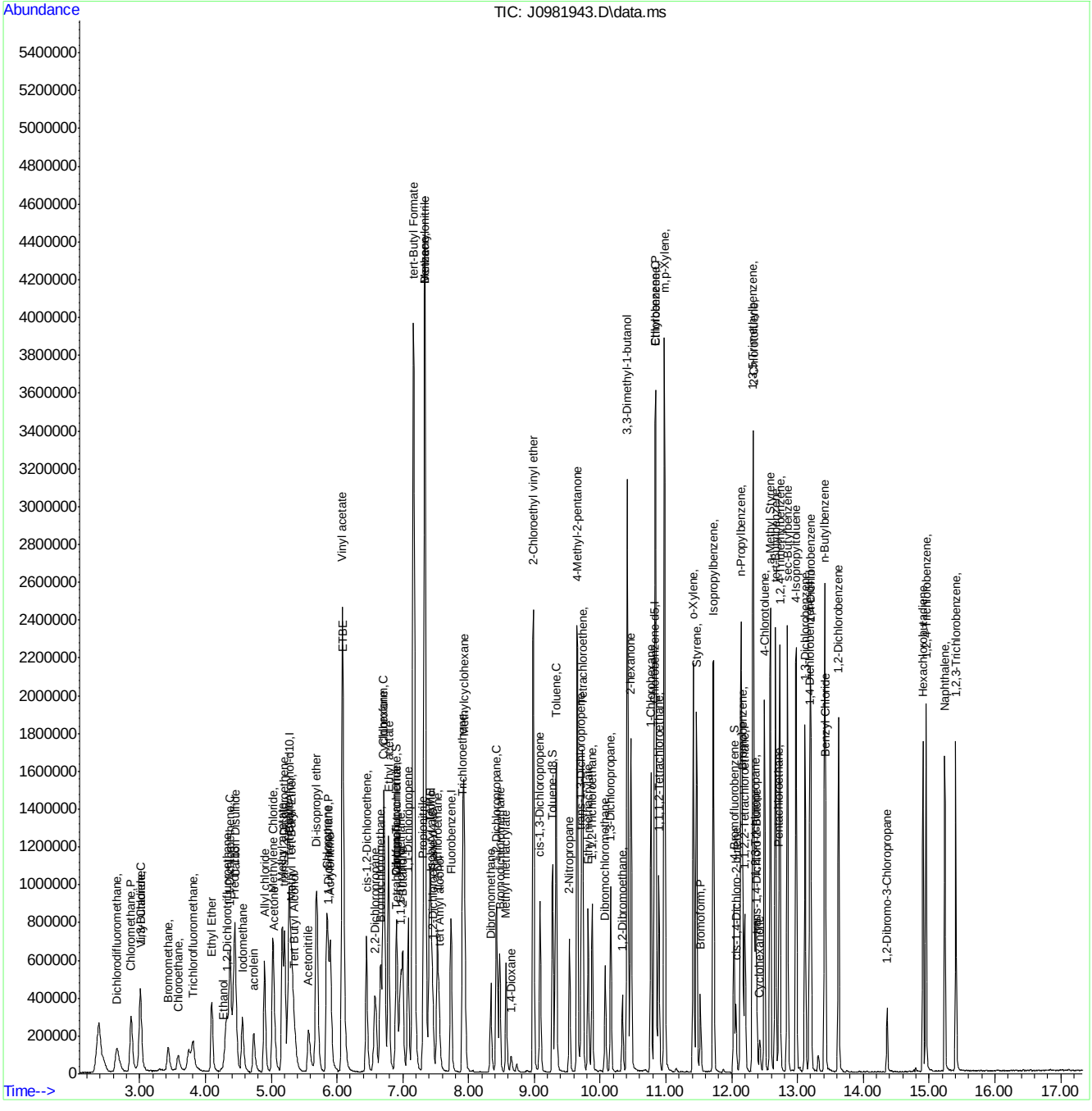
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
91)	tert-Butylbenzene	12.663	91	669190	45.89	ug/L	95
92)	1,2,4-Trimethylbenzene	12.734	105	1011838	45.66	ug/L	95
93)	Pentachloroethane	12.716	167	77096	17.76	ug/L	92
94)	sec-Butylbenzene	12.846	105	1422878	46.89	ug/L	96
95)	4-Isopropyltoluene	12.981	119	1086601	45.44	ug/L	96
96)	1,3-Dichlorobenzene	13.116	146	621404	43.38	ug/L	94
97)	1,4-Dichlorobenzene	13.198	146	625960	42.10	ug/L	98
98)	n-Butylbenzene	13.410	92	677216	46.41	ug/L	94
99)	Benzyl Chloride	13.427	126	109276	36.19	ug/L #	45
100)	1,2-Dichlorobenzene	13.621	146	615422	42.66	ug/L	96
101)	1,2-Dibromo-3-Chloropr...	14.361	75	68170	46.70	ug/L	87
102)	Hexachlorobutadiene	14.908	225	243877	40.09	ug/L	98
103)	1,2,4-Trichlorobenzene	14.955	180	428172	41.85	ug/L	96
104)	Naphthalene	15.237	128	937374	45.88	ug/L	98
105)	1,2,3-Trichlorobenzene	15.407	180	391157	40.82	ug/L	94
107)	Ethanol	4.267	45	60952m	909.52	ug/L	
108)	acrolein	4.731	56	250125	203.49	ug/L	91
109)	Tert Butyl Alcohol	5.348	59	322966	447.53	ug/L	90
110)	tert Amyl alcohol	7.552	59	252243	433.61	ug/L	94
111)	Isobutyl alcohol	7.434	42	210158	894.32	ug/L	95
112)	1,4-Dioxane	8.645	88	52146	843.52	ug/L	99
113)	3,3-Dimethyl-1-butanol	10.413	57	1301518	2155.42	ug/L	98

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\010317\
Data File : J0981943.D
Acq On : 3 Jan 2017 9:32 pm
Operator : darshnap
Sample : ecc5529-5 Inst : MSVOA6
Misc : MS35986,VJ5531,,,,,
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Jan 04 09:49:06 2017
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jan 03 09:58:33 2017
Response via : Initial Calibration



SGS ACCUTEST FA39742

Manual Integration Approval Summary

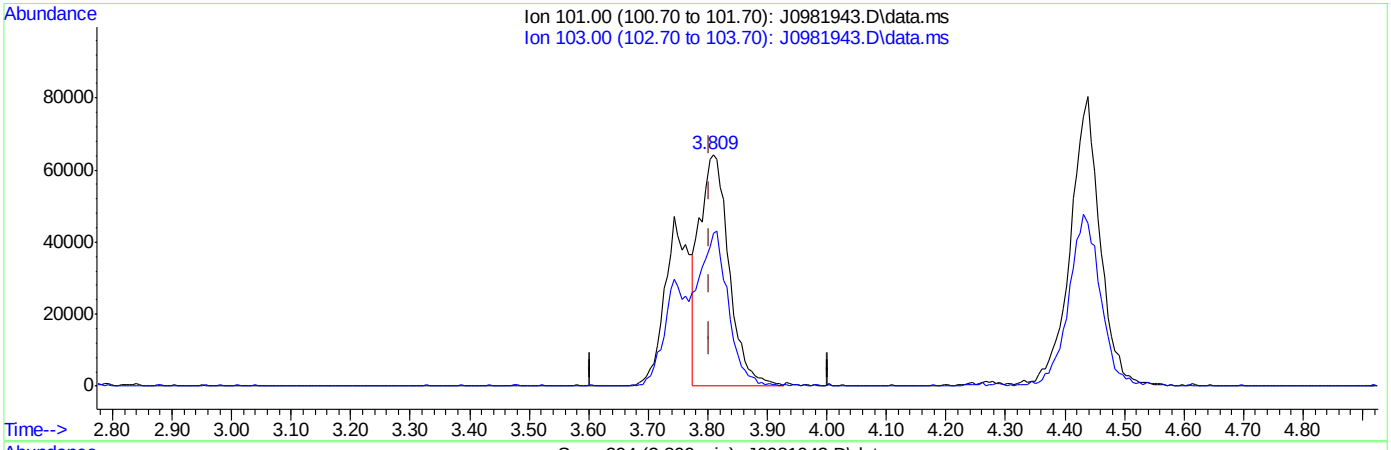
Sample Number:	VJ5530-ECC5529	**Method:**	SW846 8260B
Lab FileID:	J0981943.D	**Analyst approved:**	01/04/17 10:28 Darshna Patel
Injection Time:	01/03/17 21:32	**Supervisor approved:**	01/04/17 11:16 Juan Garcia

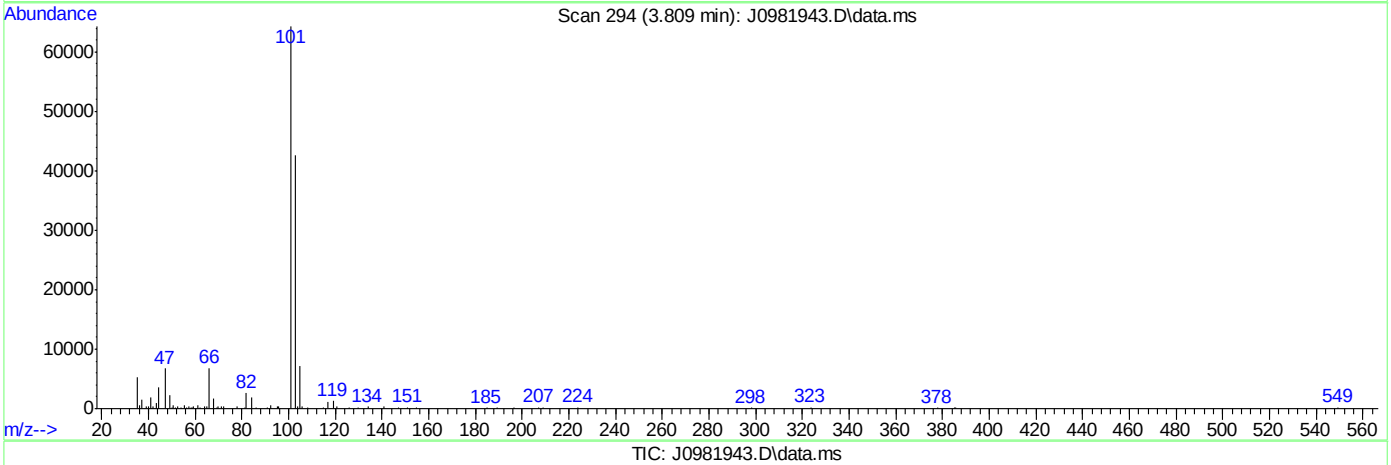
Parameter	CAS	Sig#	R.T. (min.)	Reason
Trichlorofluoromethane	75-69-4		3.81	Split peak
Ethyl Alcohol	64-17-5		4.27	Poor instrument integration
Carbon Tetrachloride	56-23-5		6.91	Overlapping peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\010317\
Data File : J0981943.D
Acq On : 3 Jan 2017 9:32 pm
Operator : darshnap
Sample : ecc5529-5 Inst : MSVOA6
Misc : MS35986,VJ5531,,,,,
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Jan 04 07:48:52 2017
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jan 03 09:58:33 2017
Response via : Initial Calibration





TIC: J0981943.D\data.ms

(8) Trichlorofluoromethane ( )

3.809min (+0.006) 28.59ug/L

response 221167

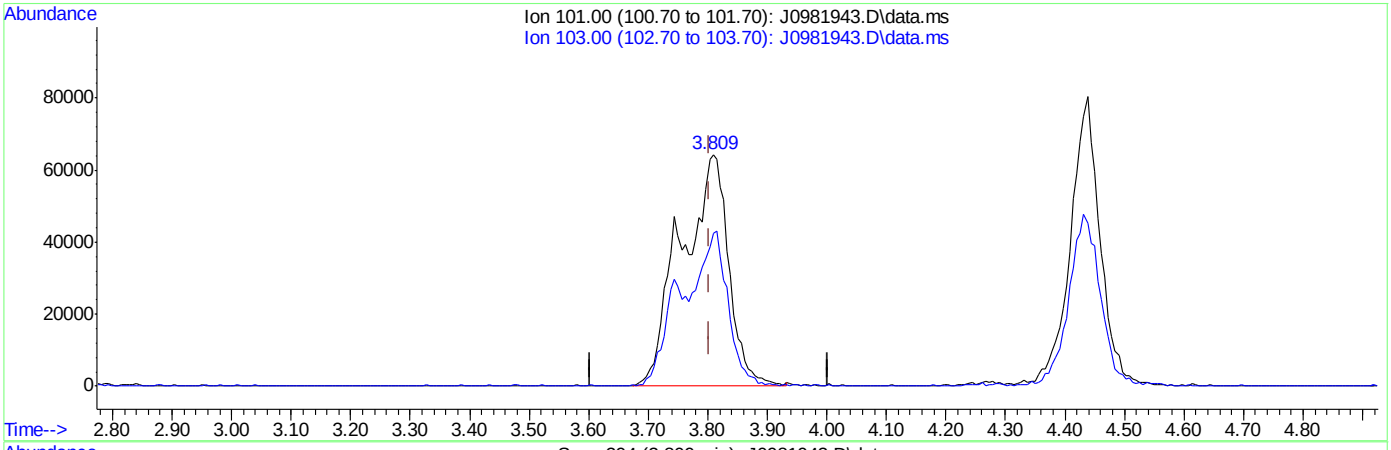
Ion	Exp%	Act%
101.00	100	100
103.00	55.20	65.90
0.00	0.00	0.00
0.00	0.00	0.00

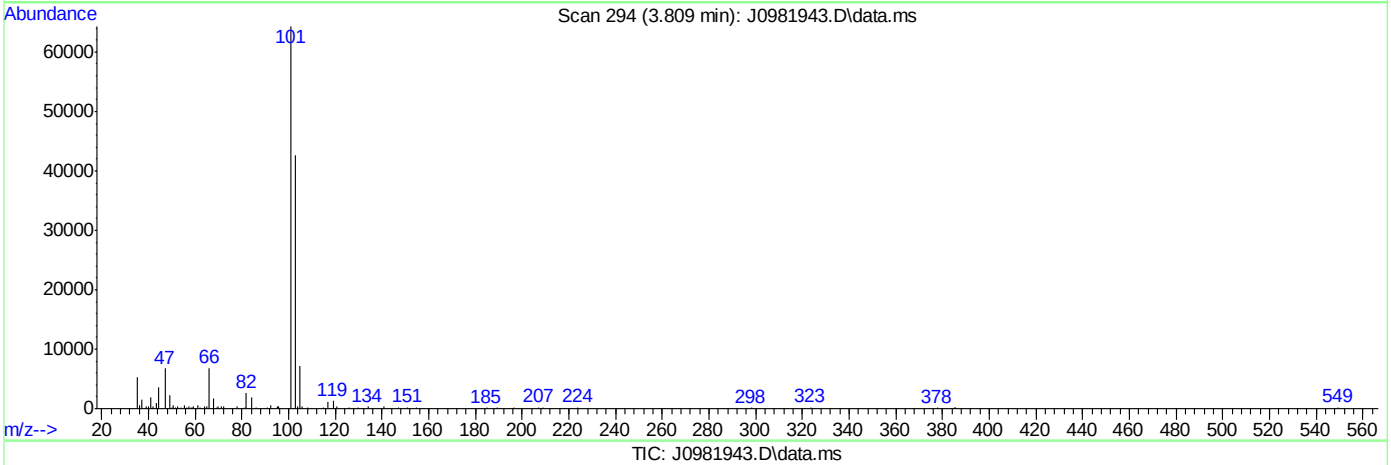
SGS ACCUTEST FA39742

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\010317\
Data File : J0981943.D
Acq On : 3 Jan 2017 9:32 pm
Operator : darshnap
Sample : ecc5529-5 Inst : MSVOA6
Misc : MS35986,VJ5531,,,,,
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Jan 04 07:48:52 2017
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jan 03 09:58:33 2017
Response via : Initial Calibration





TIC: J0981943.D\data.ms

(8) Trichlorofluoromethane ( )

3.809min (+0.006) 45.93ug/L m

response 355295

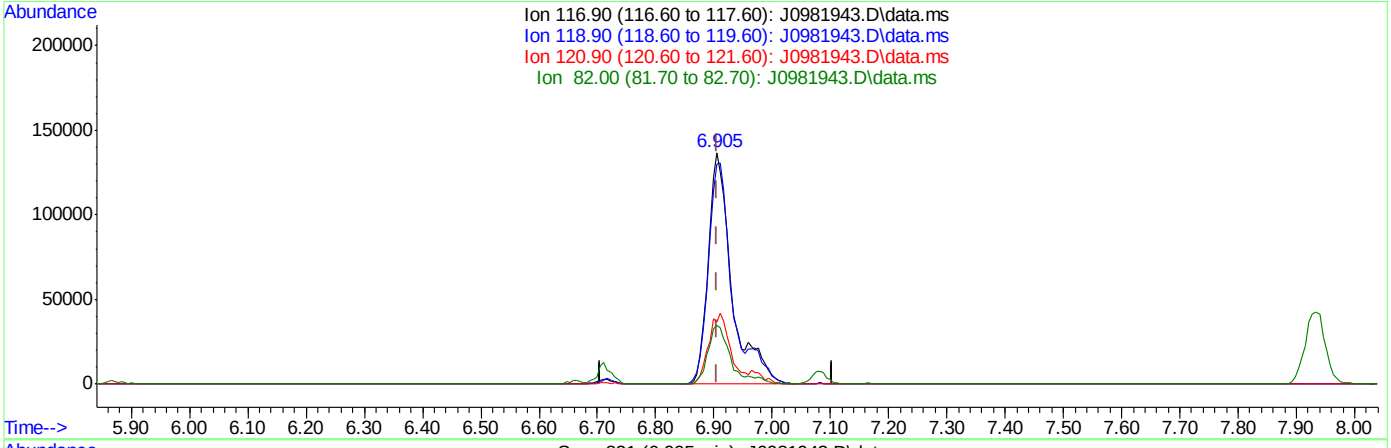
Ion	Exp%	Act%
101.00	100	100
103.00	55.20	66.23
0.00	0.00	0.00
0.00	0.00	0.00

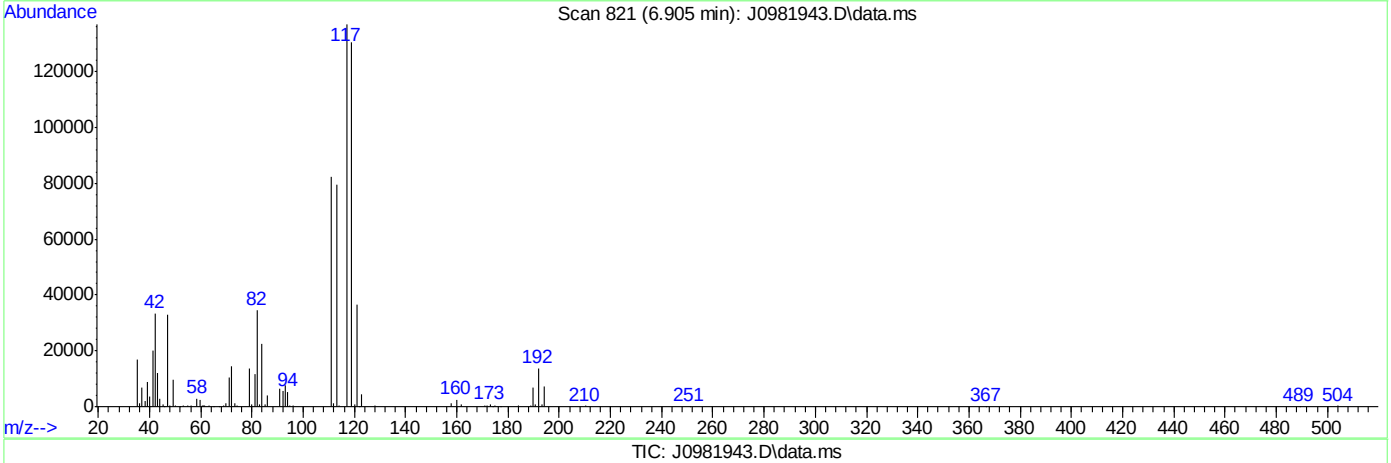
SGS ACCUTEST FA39742

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\010317\
Data File : J0981943.D
Acq On : 3 Jan 2017 9:32 pm
Operator : darshnap
Sample : ecc5529-5 Inst : MSVOA6
Misc : MS35986,VJ5531,,,,,
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Jan 04 07:48:52 2017
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jan 03 09:58:33 2017
Response via : Initial Calibration





TIC: J0981943.D\data.ms

(37) Carbon Tetrachloride ( )

6.905min (+0.000) 49.36ug/L

response 390684

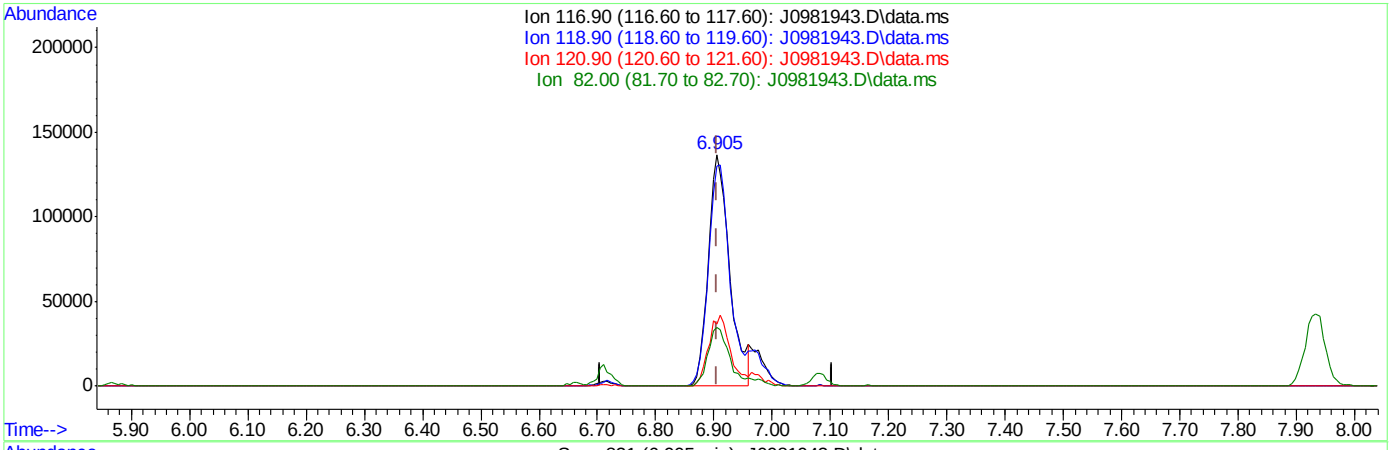
Ion	Exp%	Act%
116.90	100	100
118.90	91.30	95.21
120.90	30.80	26.79
82.00	23.30	25.29

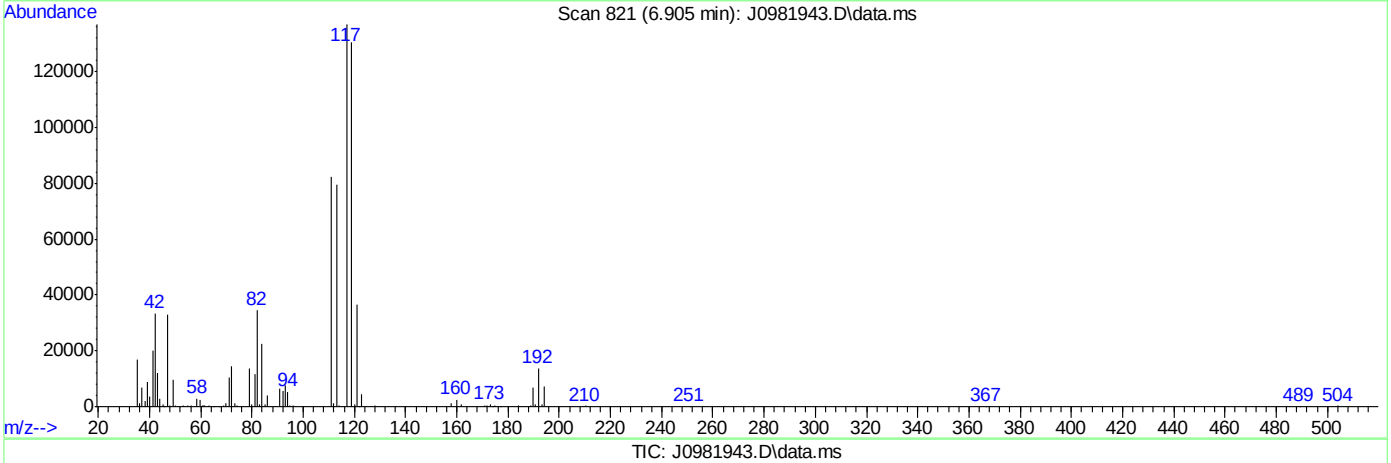
SGS ACCUTEST FA39742

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\010317\
Data File : J0981943.D
Acq On : 3 Jan 2017 9:32 pm
Operator : darshnap
Sample : ecc5529-5 Inst : MSVOA6
Misc : MS35986,VJ5531,,,,,
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Jan 04 07:48:52 2017
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jan 03 09:58:33 2017
Response via : Initial Calibration





TIC: J0981943.D\data.ms

(37) Carbon Tetrachloride ( )

6.905min (+0.000) 44.24ug/L m

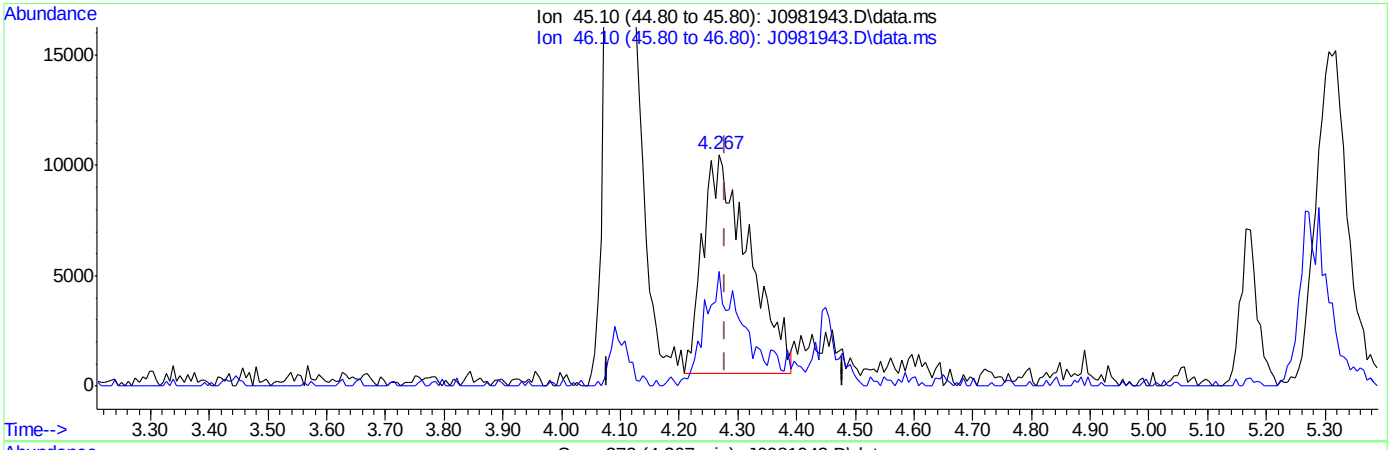
response 350166

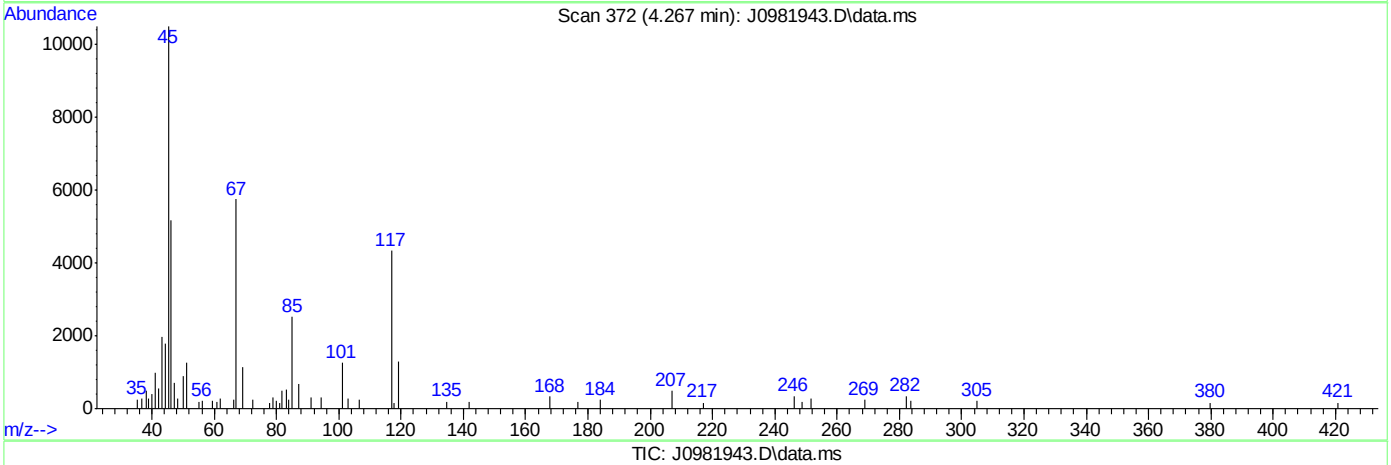
Ion	Exp%	Act%
116.90	100	100
118.90	91.30	95.21
120.90	30.80	26.79
82.00	23.30	25.29

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\010317\
Data File : J0981943.D
Acq On : 3 Jan 2017 9:32 pm
Operator : darshnap
Sample : ecc5529-5 Inst : MSVOA6
Misc : MS35986,VJ5531,,,,,
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Jan 04 07:48:52 2017
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jan 03 09:58:33 2017
Response via : Initial Calibration





TIC: J0981943.D\data.ms

(107) Ethanol

4.267min (-0.012) 803.27ug/L

response 53828

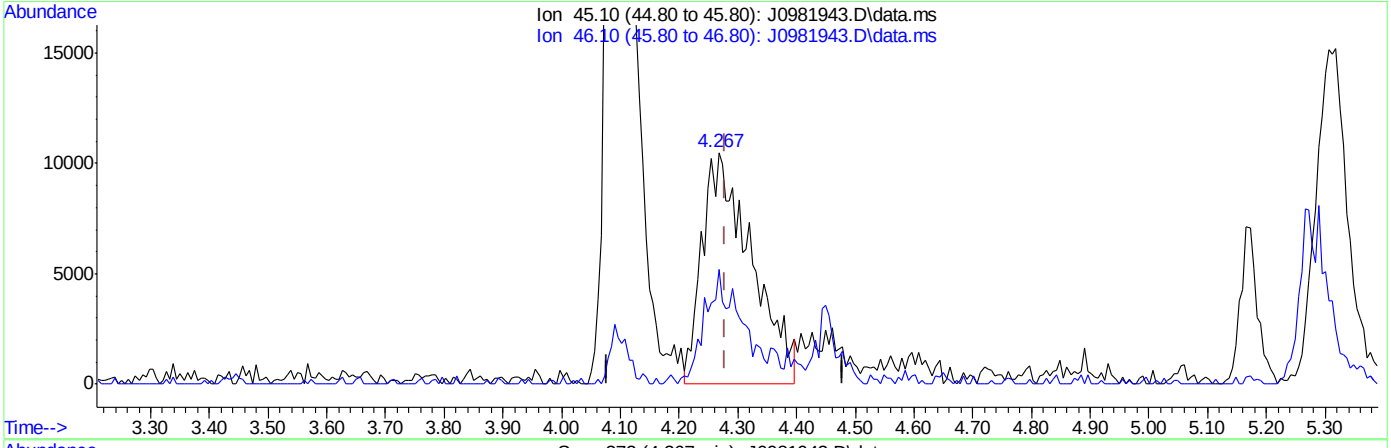
Ion	Exp%	Act%
45.10	100	100
46.10	41.60	48.48
0.00	0.00	0.00
0.00	0.00	0.00

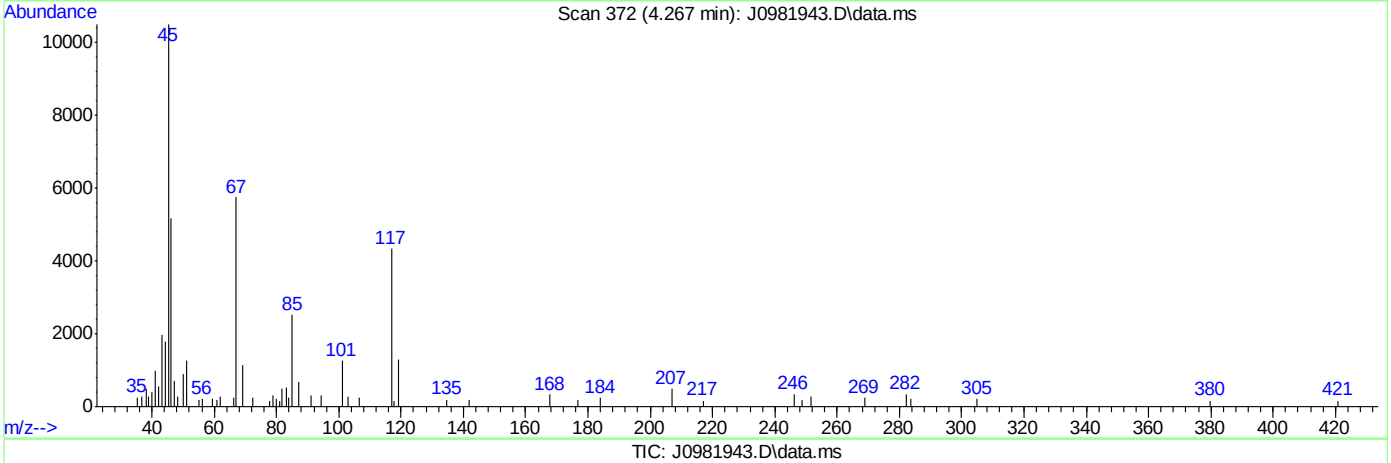
SGS ACCUTEST FA39742

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\010317\
Data File : J0981943.D
Acq On : 3 Jan 2017 9:32 pm
Operator : darshnap
Sample : ecc5529-5 Inst : MSVOA6
Misc : MS35986,VJ5531,,,,,
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Jan 04 07:48:52 2017
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jan 03 09:58:33 2017
Response via : Initial Calibration





TIC: J0981943.D\data.ms

(107) Ethanol

4.267min (-0.012) 909.52ug/L m

response 60952

Ion	Exp%	Act%
45.10	100	100
46.10	41.60	49.39
0.00	0.00	0.00
0.00	0.00	0.00

SGS ACCUTEST FA39742

Manual Integrations APPROVED (compounds with "m" flag)
Melissa Mangual
01/05/17 11:16

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\010417\
Data File : J0981946.D
Acq On : 4 Jan 2017 8:58 am
Operator : darshnap
Sample : CC5529-5 Inst : MSVOA6
Misc : MS35986,VJ5532,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 04 10:05:21 2017
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jan 03 08:23:52 2017
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.734	96	712752	50.00	ug/L	0.00
56) Chlorobenzene-d5	10.824	117	487238	50.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	13.186	152	269420	50.00	ug/L	0.00
106) Tert Butyl Alcohol-d10	5.278	65	89750	250.00	ug/L	0.00
System Monitoring Compounds						
36) Dibromofluoromethane	6.905	113	162357	48.25	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 96.50%			
46) 1,2-Dichloroethane-d4	7.458	65	234463	51.81	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 103.62%			
57) Toluene-d8	9.279	98	663596	51.28	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 102.56%			
79) 4-Bromofluorobenzene	12.035	95	282686	52.60	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 105.20%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.657	85	285776	36.86	ug/L	98
3) Chloromethane	2.875	50	447985	39.89	ug/L	96
4) Vinyl Chloride	3.016	62	253759	37.21	ug/L	94
5) 1,3-Butadiene	3.010	54	162880	37.62	ug/L	96
6) Bromomethane	3.439	94	113484	30.83	ug/L	90
7) Chloroethane	3.586	64	83462	32.02	ug/L	92
8) Trichlorofluoromethane	3.803	101	293145m	35.36	ug/L	
9) Ethyl Ether	4.097	59	257057	42.50	ug/L	96
10) 1,2-Dichlorotrifluoroe...	4.432	67	3401m	0.45	ug/L	
11) 1,1-Dichloroethene	4.373	61	468018	45.00	ug/L	96
12) Freon 113	4.438	101	252900	40.03	ug/L	92
13) Carbon Disulfide	4.455	76	911875	42.00	ug/L	100
14) Iodomethane	4.561	142	407369	36.88	ug/L	98
15) Allyl chloride	4.896	41	536111	43.00	ug/L	98
16) Methylene Chloride	5.019	49	513728	47.13	ug/L	96
17) Acetone	5.055	58	132395	230.85	ug/L #	78
18) Methyl acetate	5.172	74	205557	227.70	ug/L	98
19) trans-1,2-Dichloroethene	5.207	61	447118	44.26	ug/L	98
20) Hexane	5.272	56	279443	42.83	ug/L	95
21) Methyl Tert Butyl Ether	5.313	73	833142	41.54	ug/L	95
22) Acetonitrile	5.566	40	221674	473.04	ug/L	95
23) Di-isopropyl ether	5.695	45	1187422	44.07	ug/L	97
24) Chloroprene	5.842	53	468795	40.45	ug/L	95
25) 1,1-Dichloroethane	5.871	63	557005	46.09	ug/L	92
26) Acrylonitrile	5.901	53	598369	237.06	ug/L	95
27) ETBE	6.095	59	1038468	41.77	ug/L	98
28) Vinyl acetate	6.083	43	3607097	239.32	ug/L	98
29) cis-1,2-Dichloroethene	6.447	96	305984	41.00	ug/L	96
30) 2,2-Dichloropropane	6.582	77	464516	44.73	ug/L	93
31) Bromochloromethane	6.659	128	130352	38.08	ug/L #	79
32) Cyclohexane	6.712	56	562214	41.45	ug/L	95
33) Chloroform	6.712	83	490986	40.04	ug/L	97
34) Ethyl acetate	6.782	43	1495841	239.74	ug/L	98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\010417\
Data File : J0981946.D
Acq On : 4 Jan 2017 8:58 am
Operator : darshnap
Sample : CC5529-5 Inst : MSVOA6
Misc : MS35986,VJ5532,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 04 10:05:21 2017
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jan 03 08:23:52 2017
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
35) Tetrahydrofuran	6.894	42	93673	45.72	ug/L	92
37) Carbon Tetrachloride	6.905	117	343574m	40.51	ug/L	
38) 1,1,1-Trichloroethane	6.970	97	438952	40.91	ug/L	97
39) 2-Butanone	6.999	43	686704	229.59	ug/L	96
40) 1,1-Dichloropropene	7.082	75	359074	41.40	ug/L	95
41) tert-Butyl Formate	7.164	59	2960102	415.44	ug/L	94
42) Propionitrile	7.311	54	423974	454.82	ug/L	95
43) Methacrylonitrile	7.334	41	1804940	471.64	ug/L	98
44) Benzene	7.334	78	1041149	45.77	ug/L	100
45) TAME	7.411	73	854754	42.14	ug/L	98
47) 1,2-Dichloroethane	7.522	62	416980	44.35	ug/L	99
48) Trichloroethene	7.910	95	283875	42.67	ug/L	96
49) Methylcyclohexane	7.934	83	498736	41.88	ug/L	97
50) Dibromomethane	8.333	93	177877	44.13	ug/L	94
51) 1,2-Dichloropropane	8.427	63	318506	45.03	ug/L	94
52) Bromodichloromethane	8.468	83	373478	42.34	ug/L	97
53) Methyl methacrylate	8.568	41	299767	46.20	ug/L	92
54) 2-Chloroethyl vinyl ether	8.985	63	986776	235.07	ug/L	98
55) cis-1,3-Dichloropropene	9.085	75	466719	43.15	ug/L	99
58) Toluene	9.332	91	1124250	46.56	ug/L	99
59) 2-Nitropropane	9.532	41	368983	231.75	ug/L	97
60) 4-Methyl-2-pentanone	9.649	43	1547951	241.02	ug/L	99
61) trans-1,3-Dichloropropene	9.714	75	439879	49.63	ug/L	92
62) Tetrachloroethene	9.737	166	259568	35.36	ug/L	97
63) Ethyl methacrylate	9.820	69	383474	45.72	ug/L	94
64) 1,1,2-Trichloroethane	9.878	83	217724	48.73	ug/L	87
65) Dibromochloromethane	10.078	129	266132	44.42	ug/L	93
66) 1,3-Dichloropropane	10.160	76	437204	44.21	ug/L	96
67) 1,2-Dibromoethane	10.337	107	249974	44.85	ug/L	97
68) 2-hexanone	10.466	43	1075781	245.49	ug/L	96
69) 1-Chlorohexane	10.772	91	388937	43.37	ug/L	95
70) Ethylbenzene	10.842	91	1231876	45.50	ug/L	98
71) Chlorobenzene	10.842	112	700237	42.16	ug/L	94
72) 1,1,1,2-Tetrachloroethane	10.889	131	266326	43.49	ug/L	97
73) m,p-Xylene	10.977	91	1894629	86.31	ug/L	98
74) o-Xylene	11.418	91	1070019	43.10	ug/L	99
75) Styrene	11.465	104	804756	46.93	ug/L	97
76) Bromoform	11.524	173	168383	40.07	ug/L	95
77) Isopropylbenzene	11.723	105	1258466	43.51	ug/L	98
80) cis-1,4-Dichloro-2-butene	12.070	53	83596	38.73	ug/L	94
81) n-Propylbenzene	12.141	91	1531723	42.83	ug/L	97
82) Bromobenzene	12.164	156	325197	43.62	ug/L	100
83) 1,1,2,2-Tetrachloroethane	12.199	83	336207	43.01	ug/L	99
84) 1,3,5-Trimethylbenzene	12.323	105	1071847	45.21	ug/L	100
85) 2-Chlorotoluene	12.329	91	1031468	42.39	ug/L	99
86) trans-1,4-Dichloro-2-B...	12.381	53	95988	40.38	ug/L	89
87) 1,2,3-Trichloropropane	12.364	110	89006	44.10	ug/L	87
88) Cyclohexanone	12.423	55	87051	284.83	ug/L	88
89) 4-Chlorotoluene	12.499	91	1002849	43.19	ug/L	99
90) a-Methyl Styrene	12.587	118	628917	42.49	ug/L	98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\010417\
Data File : J0981946.D
Acq On : 4 Jan 2017 8:58 am
Operator : darshnap
Sample : CC5529-5 Inst : MSVOA6
Misc : MS35986,VJ5532,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 04 10:05:21 2017
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jan 03 08:23:52 2017
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
91) tert-Butylbenzene	12.663	91	651886	42.18	ug/L	96
92) 1,2,4-Trimethylbenzene	12.734	105	1074831	45.76	ug/L	96
93) Pentachloroethane	12.716	167	201601	43.81	ug/L	96
94) sec-Butylbenzene	12.846	105	1390418	43.23	ug/L	96
95) 4-Isopropyltoluene	12.981	119	1162881	45.88	ug/L	99
96) 1,3-Dichlorobenzene	13.116	146	646937	42.60	ug/L	97
97) 1,4-Dichlorobenzene	13.198	146	634134	40.24	ug/L	97
98) n-Butylbenzene	13.410	92	727609	47.05	ug/L	95
99) Benzyl Chloride	13.427	126	133192	41.62	ug/L #	68
100) 1,2-Dichlorobenzene	13.627	146	627230	41.02	ug/L	98
101) 1,2-Dibromo-3-Chloropr...	14.361	75	69025	44.61	ug/L	83
102) Hexachlorobutadiene	14.908	225	232820	36.11	ug/L	95
103) 1,2,4-Trichlorobenzene	14.955	180	454787	41.94	ug/L	98
104) Naphthalene	15.237	128	1072004	51.08	ug/L	99
105) 1,2,3-Trichlorobenzene	15.407	180	429672	42.69	ug/L	99
107) Ethanol	4.267	45	62473m	918.40	ug/L	
108) acrolein	4.731	56	262280	210.21	ug/L	92
109) Tert Butyl Alcohol	5.354	59	294966	387.88	ug/L	93
110) tert Amyl alcohol	7.552	59	236185	399.99	ug/L	99
111) Isobutyl alcohol	7.434	42	207757	871.00	ug/L	88
112) 1,4-Dioxane	8.645	88	47460	756.34	ug/L	96
113) 3,3-Dimethyl-1-butanol	10.413	57	1271156	2073.95	ug/L	99

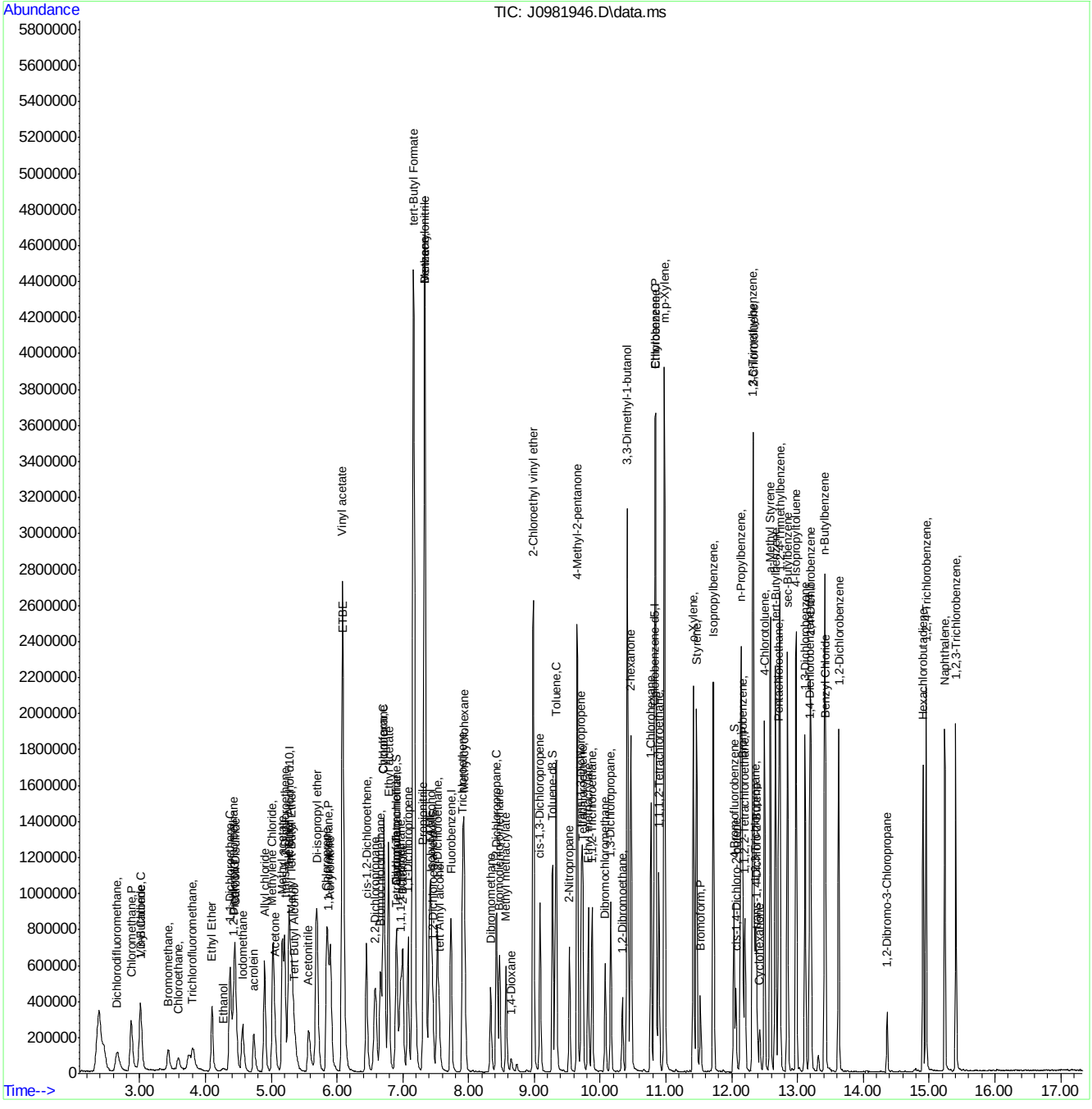
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST FA39742

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\010417\
Data File : J0981946.D
Acq On : 4 Jan 2017 8:58 am
Operator : darshnap
Sample : CC5529-5 Inst : MSVOA6
Misc : MS35986,VJ5532,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 04 10:05:21 2017
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jan 03 08:23:52 2017
Response via : Initial Calibration



MSJ123016.M Thu Jan 05 08:01:49 2017 Page: 4

Manual Integration Approval Summary

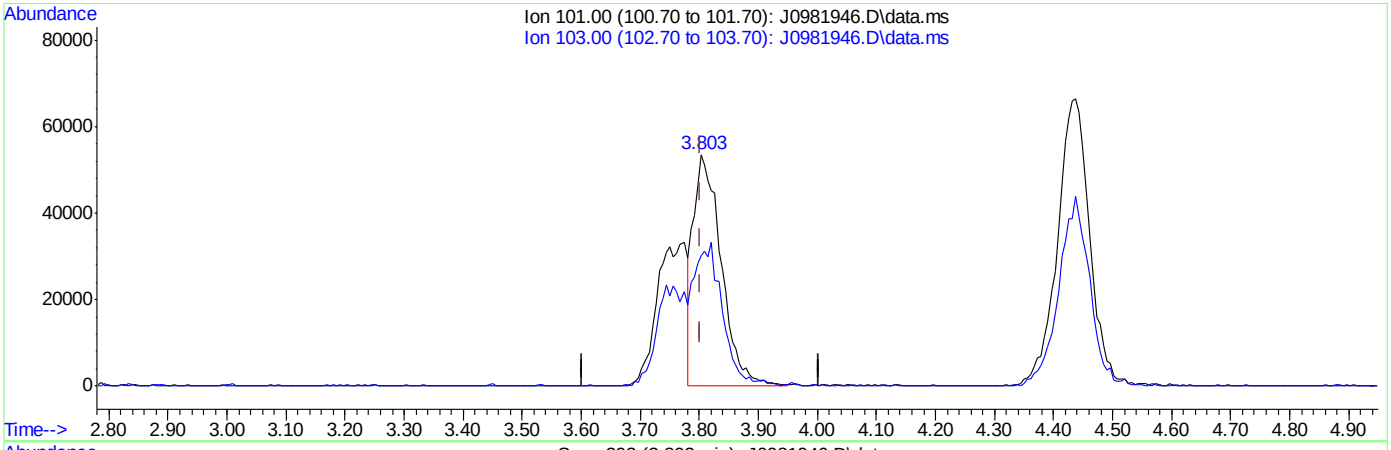
Sample Number:	VJ5532-CC5529	**Method:**	SW846 8260B
Lab FileID:	J0981946.D	**Analyst approved:**	01/04/17 10:07 Darshna Patel
Injection Time:	01/04/17 08:58	**Supervisor approved:**	01/05/17 11:16 Melissa Mangual

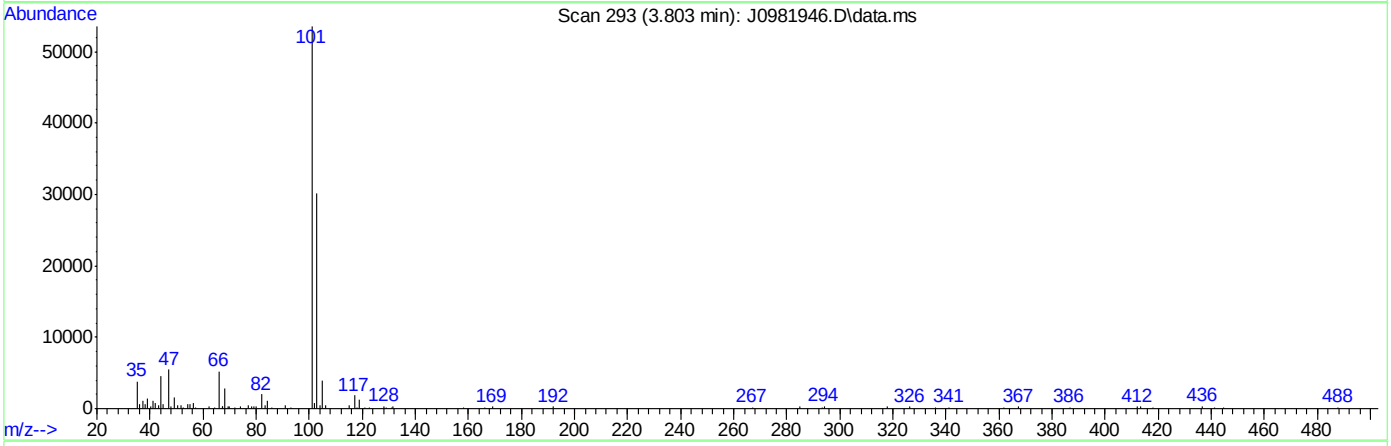
Parameter	CAS	Sig#	R.T. (min.)	Reason
Trichlorofluoromethane	75-69-4		3.80	Split peak
Ethyl Alcohol	64-17-5		4.27	Poor instrument integration
1,2-Dichlorotrifluoroethane	354-23-4		4.43	Poor instrument integration
Carbon Tetrachloride	56-23-5		6.91	Overlapping peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\010417\
Data File : J0981946.D
Acq On : 4 Jan 2017 8:58 am
Operator : darshnap
Sample : CC5529-5 Inst : MSVOA6
Misc : MS35986,VJ5532,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 04 09:22:23 2017
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jan 03 08:23:52 2017
Response via : Initial Calibration





TIC: J0981946.D\data.ms

(8) Trichlorofluoromethane ( )

3.803min (+0.000) 21.37ug/L

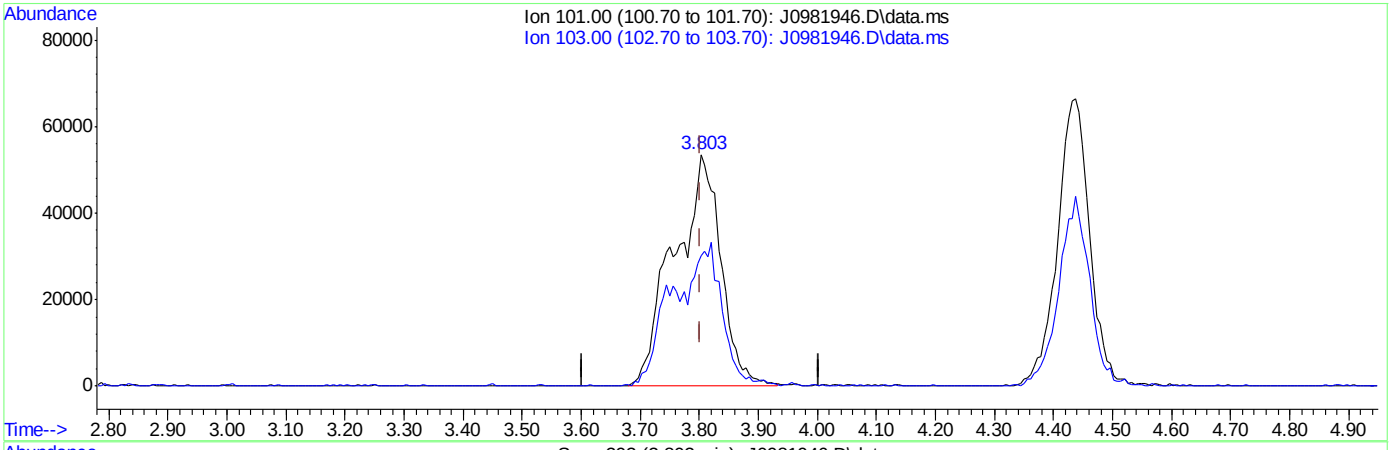
response 177145

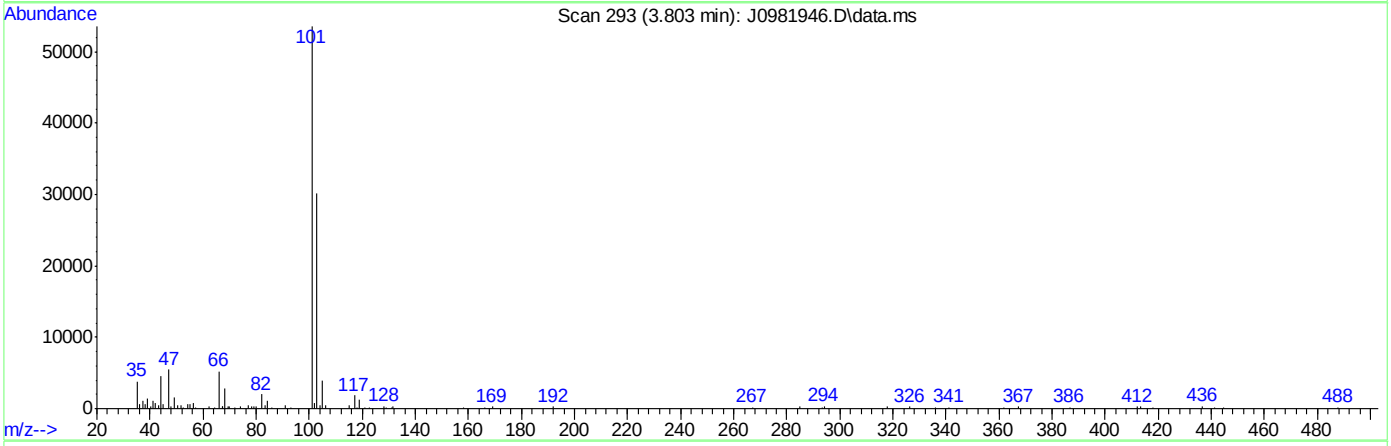
Ion	Exp%	Act%
101.00	100	100
103.00	55.20	55.92
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\010417\
Data File : J0981946.D
Acq On : 4 Jan 2017 8:58 am
Operator : darshnap
Sample : CC5529-5 Inst : MSVOA6
Misc : MS35986,VJ5532,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 04 09:22:23 2017
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jan 03 08:23:52 2017
Response via : Initial Calibration





TIC: J0981946.D\data.ms

(8) Trichlorofluoromethane ( )

3.803min (+0.000) 35.36ug/L m

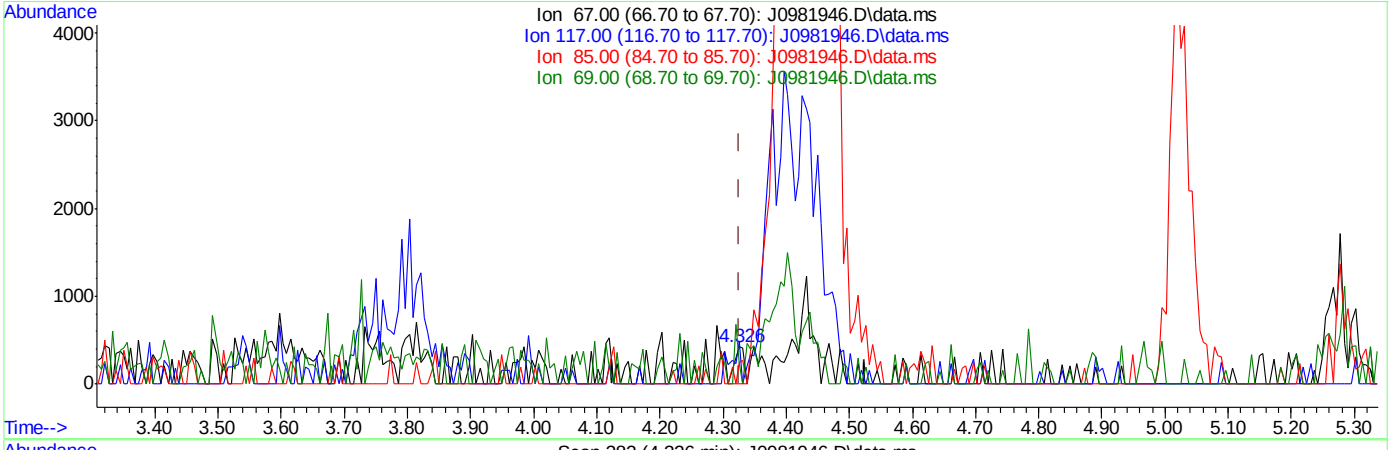
response 293145

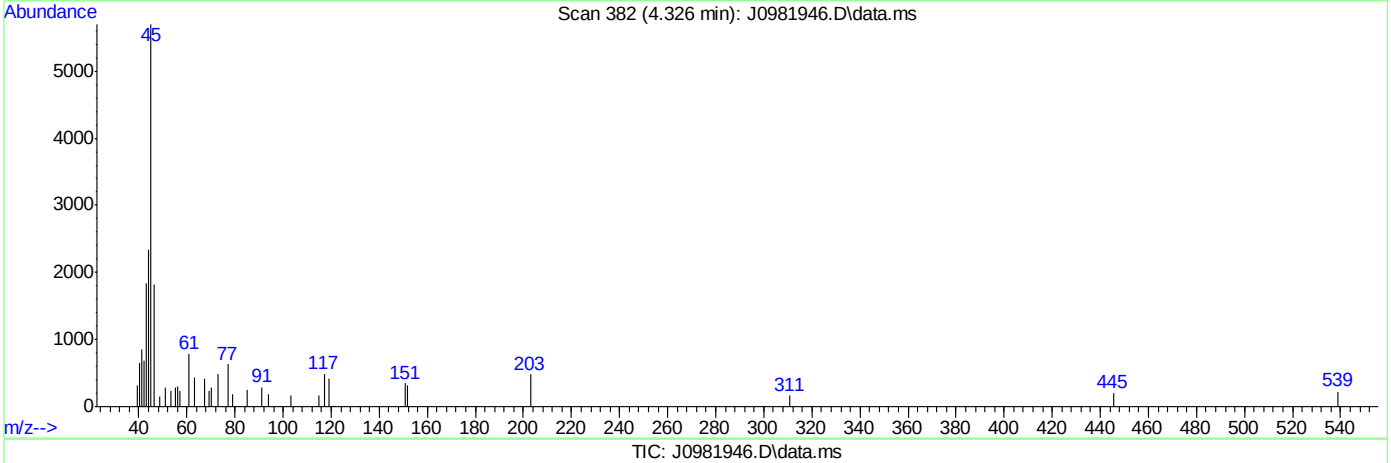
Ion	Exp%	Act%
101.00	100	100
103.00	55.20	56.23
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\010417\
Data File : J0981946.D
Acq On : 4 Jan 2017 8:58 am
Operator : darshnap
Sample : CC5529-5 Inst : MSVOA6
Misc : MS35986,VJ5532,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 04 09:22:23 2017
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jan 03 08:23:52 2017
Response via : Initial Calibration





TIC: J0981946.D\data.ms

(10) 1,2-Dichlorotrifluoroethane

4.326min (+0.000) 0.06ug/L

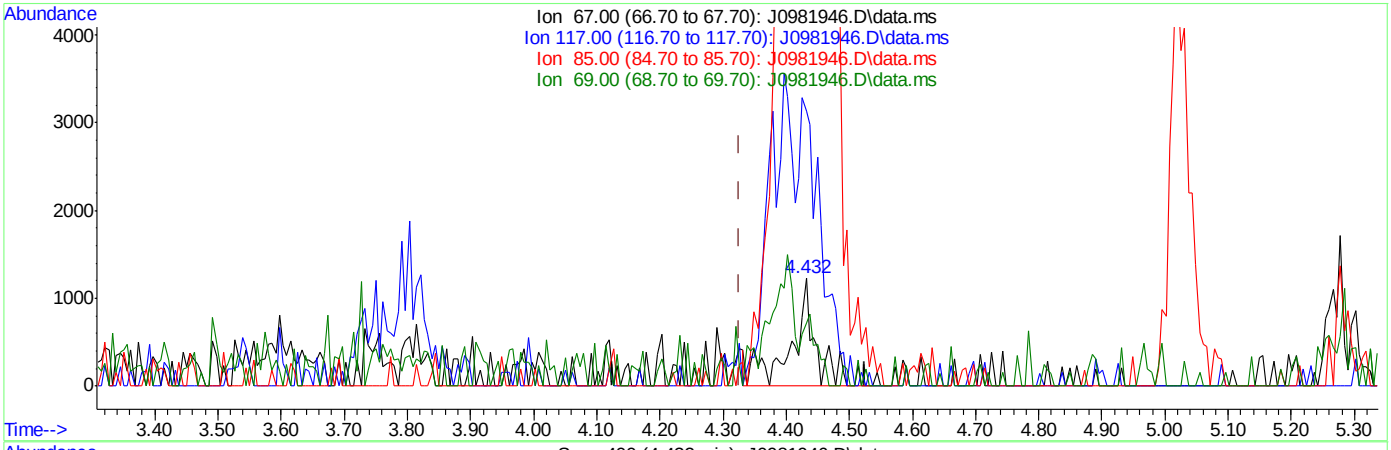
response 456

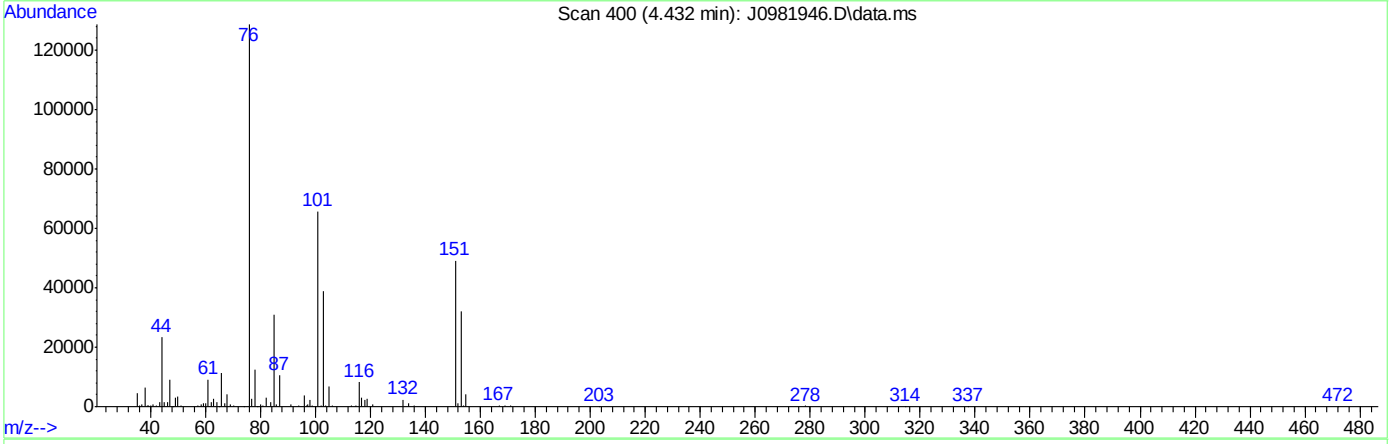
Ion	Exp%	Act%
67.00	100	100
117.00	66.40	67.70
85.00	34.80	59.86#
69.00	29.70	55.82#

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\010417\
Data File : J0981946.D
Acq On : 4 Jan 2017 8:58 am
Operator : darshnap
Sample : CC5529-5 Inst : MSVOA6
Misc : MS35986,VJ5532,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 04 09:22:23 2017
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jan 03 08:23:52 2017
Response via : Initial Calibration





TIC: J0981946.D\data.ms

(10) 1,2-Dichlorotrifluoroethane

4.432min (+0.106) 0.45ug/L m

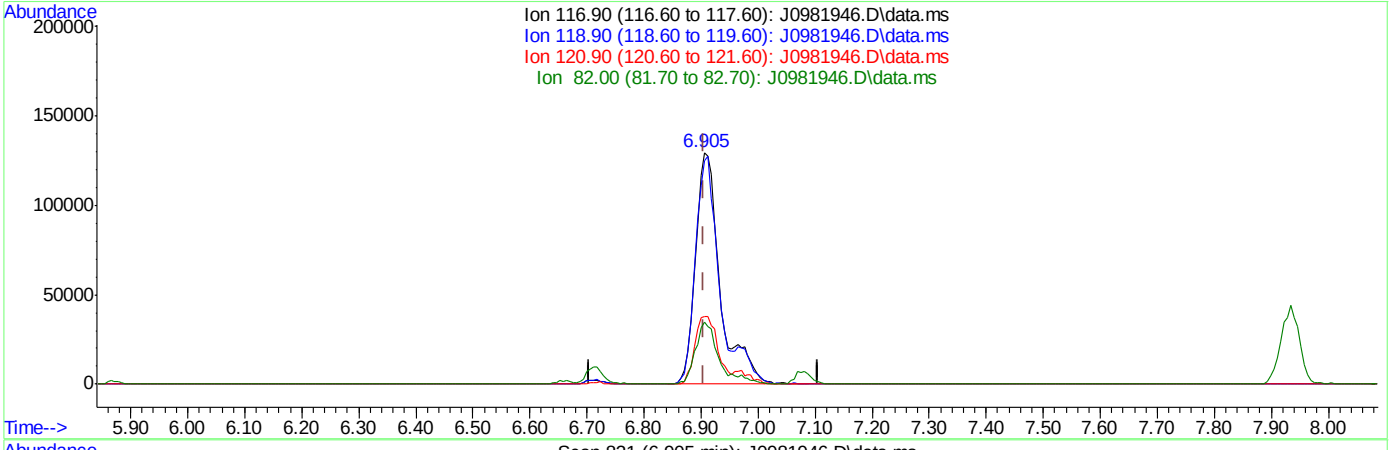
response 3401

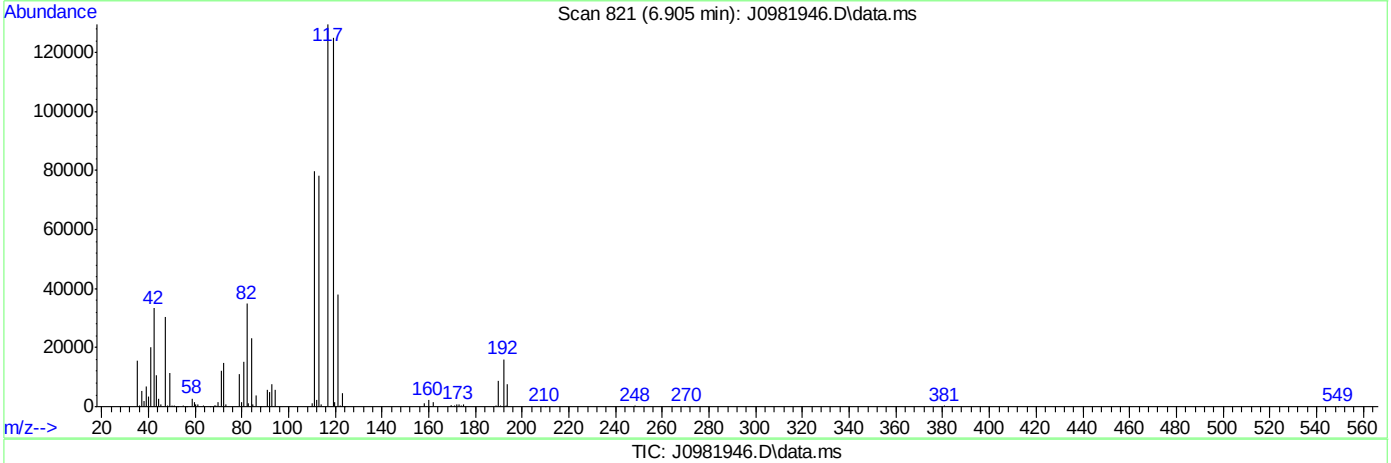
Ion	Exp%	Act%
67.00	100	100
117.00	66.40	254.51#
85.00	34.80	2505.93#
69.00	29.70	58.65#

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\010417\
Data File : J0981946.D
Acq On : 4 Jan 2017 8:58 am
Operator : darshnap
Sample : CC5529-5 Inst : MSVOA6
Misc : MS35986,VJ5532,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 04 09:22:23 2017
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jan 03 08:23:52 2017
Response via : Initial Calibration





TIC: J0981946.D\data.ms

(37) Carbon Tetrachloride ( )

6.905min (+0.000) 46.34ug/L

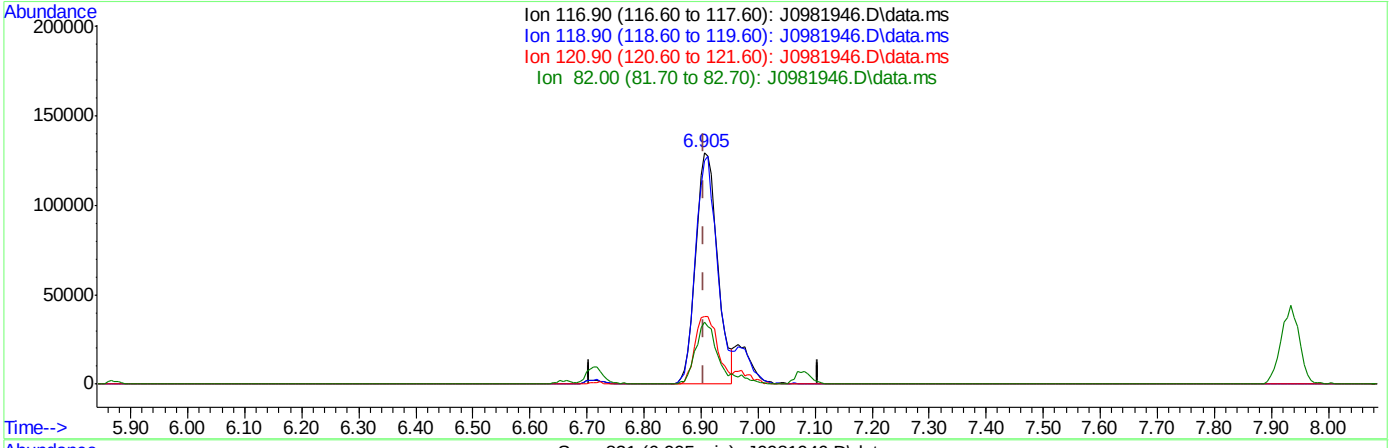
response 393051

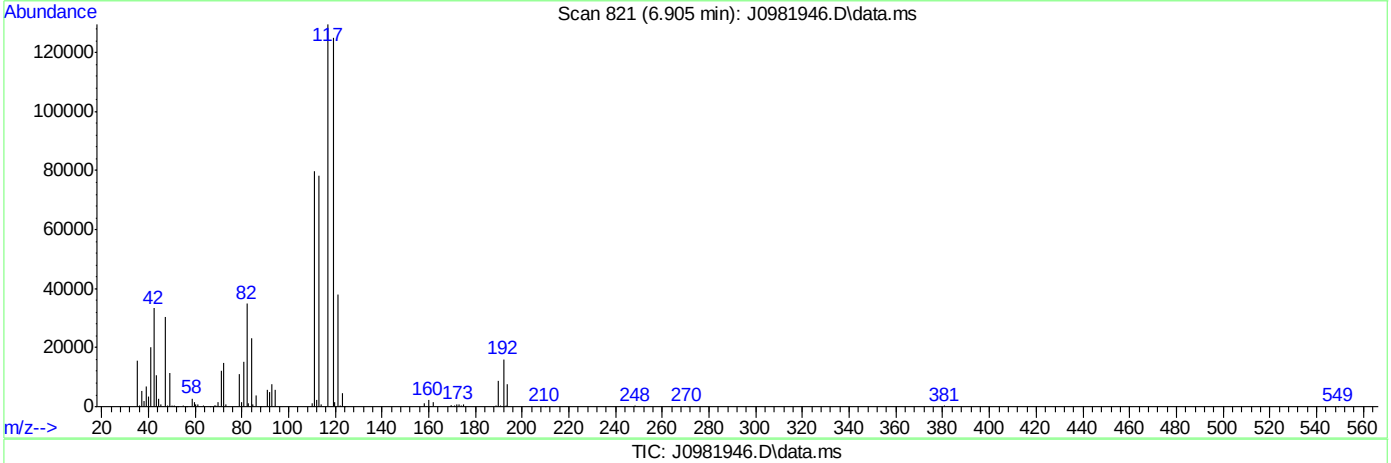
Ion	Exp%	Act%
116.90	100	100
118.90	91.30	96.60
120.90	30.80	29.33
82.00	23.30	26.97

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\010417\
Data File : J0981946.D
Acq On : 4 Jan 2017 8:58 am
Operator : darshnap
Sample : CC5529-5 Inst : MSVOA6
Misc : MS35986,VJ5532,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 04 09:22:23 2017
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jan 03 08:23:52 2017
Response via : Initial Calibration





TIC: J0981946.D\data.ms

(37) Carbon Tetrachloride ( )

6.905min (+0.000) 40.51ug/L m

response 343574

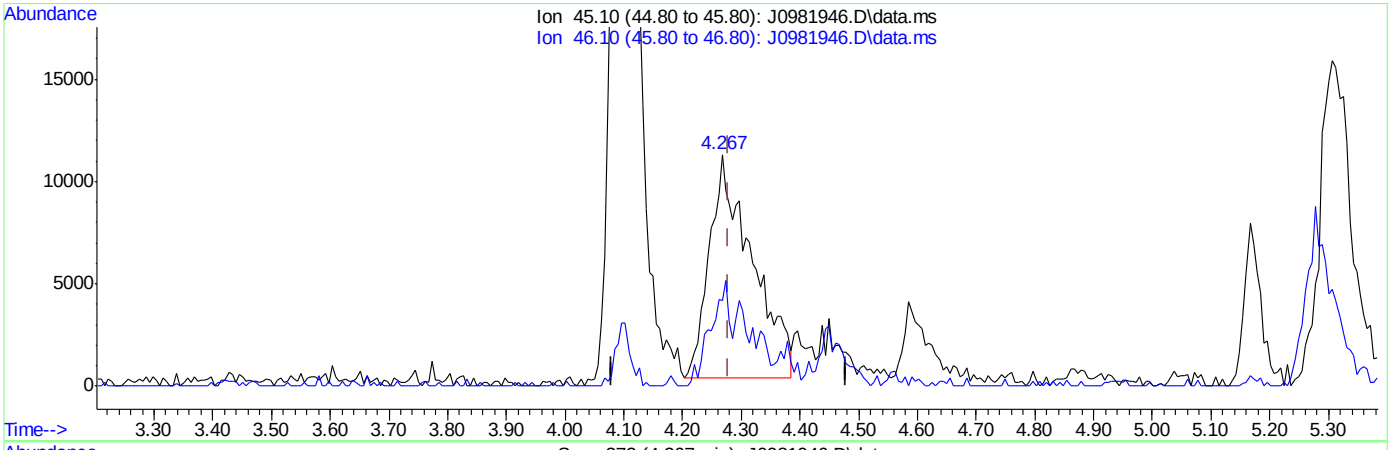
Ion	Exp%	Act%
116.90	100	100
118.90	91.30	96.60
120.90	30.80	29.33
82.00	23.30	26.97

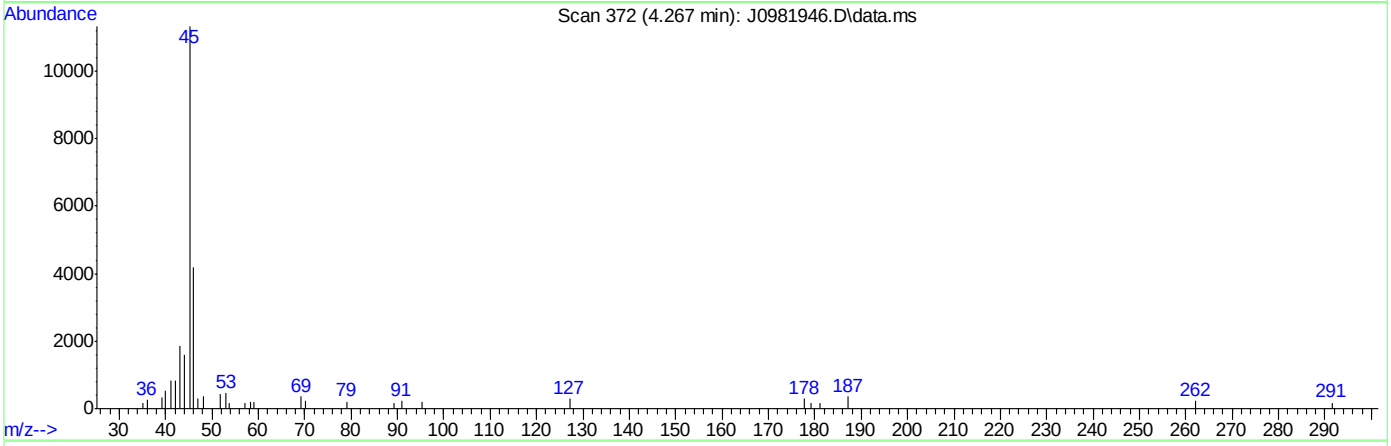
SGS ACCUTEST FA39742

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\010417\
Data File : J0981946.D
Acq On : 4 Jan 2017 8:58 am
Operator : darshnap
Sample : CC5529-5 Inst : MSVOA6
Misc : MS35986,VJ5532,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 04 09:22:23 2017
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jan 03 08:23:52 2017
Response via : Initial Calibration





TIC: J0981946.D\data.ms

(107) Ethanol

4.267min (-0.012) 806.17ug/L

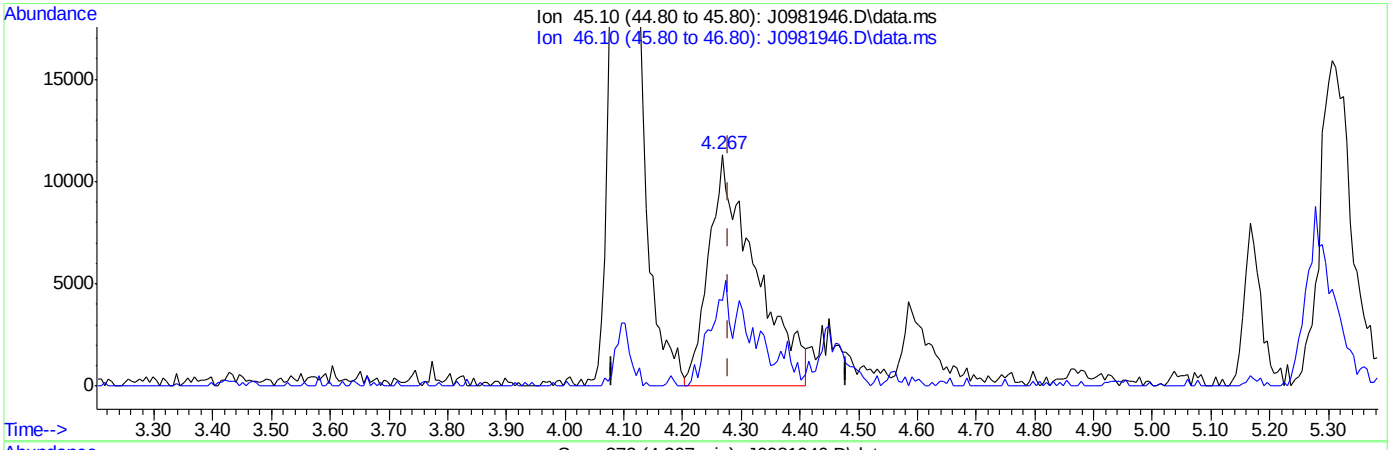
response 54835

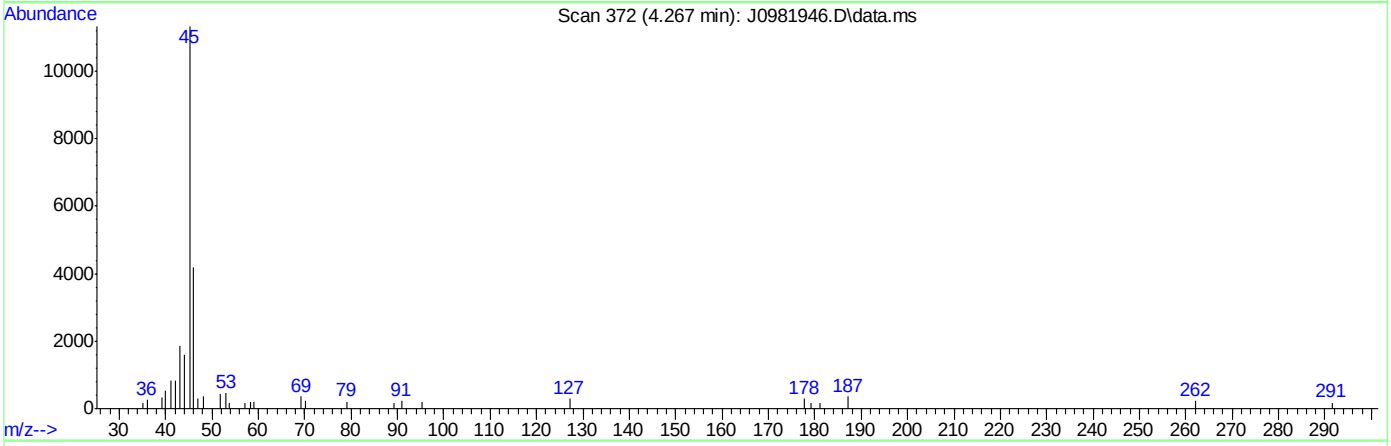
Ion	Exp%	Act%
45.10	100	100
46.10	41.60	38.44
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\010417\
Data File : J0981946.D
Acq On : 4 Jan 2017 8:58 am
Operator : darshnap
Sample : CC5529-5 Inst : MSVOA6
Misc : MS35986,VJ5532,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 04 09:22:23 2017
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jan 03 08:23:52 2017
Response via : Initial Calibration





TIC: J0981946.D\data.ms

(107) Ethanol

4.267min (-0.012) 918.40ug/L m

response 62473

Ion	Exp%	Act%
45.10	100	100
46.10	41.60	37.06
0.00	0.00	0.00
0.00	0.00	0.00

SGS ACCUTEST FA39742

Manual Integrations APPROVED (compounds with "m" flag)
Melissa Mangual
01/05/17 11:20

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\010417\
Data File : J0981967.D
Acq On : 4 Jan 2017 6:04 pm
Operator : darshnap
Sample : ecc5529-5 Inst : MSVOA6
Misc : MS35997,VJ5532,,,,,
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Jan 05 08:01:11 2017
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jan 03 08:23:52 2017
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.734	96	527220	50.00	ug/L	0.00
56) Chlorobenzene-d5	10.824	117	369693	50.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	13.181	152	201240	50.00	ug/L	0.00
106) Tert Butyl Alcohol-d10	5.278	65	67149	250.00	ug/L	0.00
System Monitoring Compounds						
36) Dibromofluoromethane	6.905	113	118506	47.61	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 95.22%			
46) 1,2-Dichloroethane-d4	7.458	65	186548	55.73	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 111.46%			
57) Toluene-d8	9.279	98	497260	50.65	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 101.30%			
79) 4-Bromofluorobenzene	12.035	95	210339	52.40	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 104.80%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.652	85	259275	45.22	ug/L	92
3) Chloromethane	2.869	50	411178	49.50	ug/L	91
4) Vinyl Chloride	3.016	62	250464	49.66	ug/L	93
5) 1,3-Butadiene	3.010	54	159930	49.85	ug/L	89
6) Bromomethane	3.433	94	93567	34.58	ug/L	89
7) Chloroethane	3.586	64	72483	38.20	ug/L	97
8) Trichlorofluoromethane	3.803	101	265049m	43.22	ug/L	
9) Ethyl Ether	4.097	59	204430	45.70	ug/L	92
10) 1,2-Dichlorotrifluoroe...	4.326	67	260485	47.09	ug/L	90
11) 1,1-Dichloroethene	4.373	61	362881	47.17	ug/L	93
12) Freon 113	4.438	101	207180	44.35	ug/L	90
13) Carbon Disulfide	4.455	76	720548	44.87	ug/L	93
14) Iodomethane	4.567	142	303963	37.20	ug/L	96
15) Allyl chloride	4.902	41	434778	47.15	ug/L	95
16) Methylene Chloride	5.025	49	396006	49.22	ug/L	91
17) Acetone	5.049	58	102903	242.57	ug/L #	79
18) Methyl acetate	5.166	74	161524	241.89	ug/L #	88
19) trans-1,2-Dichloroethene	5.207	61	339565	45.44	ug/L	94
20) Hexane	5.272	56	224756	46.55	ug/L #	87
21) Methyl Tert Butyl Ether	5.307	73	658188	44.36	ug/L	87
22) Acetonitrile	5.578	40	178005	516.71	ug/L #	86
23) Di-isopropyl ether	5.689	45	988713	49.60	ug/L	95
24) Chloroprene	5.848	53	408901	47.75	ug/L	94
25) 1,1-Dichloroethane	5.871	63	409266	45.78	ug/L	91
26) Acrylonitrile	5.901	53	477421	255.70	ug/L	97
27) ETBE	6.089	59	825773	44.91	ug/L	97
28) Vinyl acetate	6.083	43	2979503	273.70	ug/L	98
29) cis-1,2-Dichloroethene	6.453	96	231811	41.99	ug/L	96
30) 2,2-Dichloropropane	6.576	77	301623	39.27	ug/L	97
31) Bromochloromethane	6.659	128	101684	40.16	ug/L #	81
32) Cyclohexane	6.712	56	454890	45.34	ug/L	94
33) Chloroform	6.712	83	383565	42.29	ug/L	97
34) Ethyl acetate	6.782	43	1283787	278.16	ug/L	97

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\010417\
Data File : J0981967.D
Acq On : 4 Jan 2017 6:04 pm
Operator : darshnap
Sample : ecc5529-5 Inst : MSVOA6
Misc : MS35997,VJ5532,,,,,
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Jan 05 08:01:11 2017
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jan 03 08:23:52 2017
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
35) Tetrahydrofuran	6.900	42	80804	53.41 ug/L	92
37) Carbon Tetrachloride	6.911	117	243095m	38.74 ug/L	
38) 1,1,1-Trichloroethane	6.970	97	338365	42.64 ug/L	96
39) 2-Butanone	6.999	43	540721	244.40 ug/L	97
40) 1,1-Dichloropropene	7.082	75	289582	45.14 ug/L	88
41) tert-Butyl Formate	7.164	59	2155902	409.05 ug/L	90
42) Propionitrile	7.305	54	338614	491.08 ug/L	83
43) Methacrylonitrile	7.334	41	1550756	563.54 ug/L	97
44) Benzene	7.334	78	745882	44.32 ug/L	90
45) TAME	7.411	73	675856	45.05 ug/L	98
47) 1,2-Dichloroethane	7.522	62	316850	45.56 ug/L	93
48) Trichloroethene	7.910	95	212747	43.23 ug/L	95
49) Methylcyclohexane	7.934	83	397591	45.14 ug/L	90
50) Dibromomethane	8.339	93	133017	44.62 ug/L	91
51) 1,2-Dichloropropane	8.427	63	247801	47.36 ug/L	91
52) Bromodichloromethane	8.474	83	277128	42.47 ug/L	98
53) Methyl methacrylate	8.568	41	249982	52.35 ug/L	92
54) 2-Chloroethyl vinyl ether	8.985	63	765412	246.50 ug/L	97
55) cis-1,3-Dichloropropene	9.085	75	357392	44.67 ug/L	96
58) Toluene	9.332	91	805257	43.96 ug/L	98
59) 2-Nitropropane	9.532	41	302091	250.06 ug/L	94
60) 4-Methyl-2-pentanone	9.649	43	1290198	267.65 ug/L	95
61) trans-1,3-Dichloropropene	9.714	75	303374	45.11 ug/L	95
62) Tetrachloroethene	9.738	166	202304	36.33 ug/L	93
63) Ethyl methacrylate	9.820	69	314794	49.47 ug/L	95
64) 1,1,2-Trichloroethane	9.879	83	159330	47.00 ug/L	97
65) Dibromochloromethane	10.078	129	183053	40.27 ug/L	97
66) 1,3-Dichloropropane	10.161	76	351213	46.80 ug/L	92
67) 1,2-Dibromoethane	10.337	107	190716	45.10 ug/L	95
68) 2-hexanone	10.466	43	895008	269.18 ug/L	93
69) 1-Chlorohexane	10.772	91	314342	46.20 ug/L	93
70) Ethylbenzene	10.842	91	903920	44.00 ug/L	100
71) Chlorobenzene	10.842	112	537153	42.62 ug/L	92
72) 1,1,1,2-Tetrachloroethane	10.895	131	188480	40.57 ug/L	96
73) m,p-Xylene	10.977	91	1461198	87.92 ug/L	100
74) o-Xylene	11.418	91	844593	44.84 ug/L	98
75) Styrene	11.465	104	580819	44.64 ug/L	94
76) Bromoform	11.524	173	112625	35.33 ug/L	94
77) Isopropylbenzene	11.723	105	969990	44.20 ug/L	100
80) cis-1,4-Dichloro-2-butene	12.064	53	52217	32.39 ug/L #	76
81) n-Propylbenzene	12.141	91	1217592	45.58 ug/L	93
82) Bromobenzene	12.164	156	222448	39.95 ug/L	98
83) 1,1,2,2-Tetrachloroethane	12.199	83	265031	45.39 ug/L	94
84) 1,3,5-Trimethylbenzene	12.323	105	788753	44.54 ug/L	98
85) 2-Chlorotoluene	12.329	91	810868	44.61 ug/L	95
86) trans-1,4-Dichloro-2-B...	12.376	53	56105	31.60 ug/L #	55
87) 1,2,3-Trichloropropane	12.364	110	69041	45.80 ug/L	86
88) Cyclohexanone	12.423	55	48214	209.53 ug/L	90
89) 4-Chlorotoluene	12.499	91	799977	46.12 ug/L	99
90) a-Methyl Styrene	12.587	118	521004	47.13 ug/L	95

SGS ACCUTEST FA39742

Quantitation Report (QT Reviewed)

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Data File : J0981967.D
Acq On : 4 Jan 2017 6:04 pm
Operator : darshnap
Sample : ecc5529-5 Inst : MSVOA6
Misc : MS35997,VJ5532,,,,,
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Jan 05 08:01:11 2017
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jan 03 08:23:52 2017
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
91)	tert-Butylbenzene	12.664	91	530535	45.96	ug/L		90
92)	1,2,4-Trimethylbenzene	12.734	105	796431	45.40	ug/L		94
93)	Pentachloroethane	12.716	167	133472	38.83	ug/L		97
94)	sec-Butylbenzene	12.846	105	1103851	45.95	ug/L		93
95)	4-Isopropyltoluene	12.981	119	851484	44.97	ug/L		93
96)	1,3-Dichlorobenzene	13.116	146	490276	43.23	ug/L		96
97)	1,4-Dichlorobenzene	13.198	146	493084	41.89	ug/L		96
98)	n-Butylbenzene	13.410	92	536291	46.42	ug/L		96
99)	Benzyl Chloride	13.427	126	86281	36.09	ug/L	#	53
100)	1,2-Dichlorobenzene	13.627	146	481112	42.12	ug/L		98
101)	1,2-Dibromo-3-Chloropr...	14.362	75	50080	43.34	ug/L		84
102)	Hexachlorobutadiene	14.908	225	166786	34.63	ug/L		98
103)	1,2,4-Trichlorobenzene	14.955	180	318836	39.36	ug/L		97
104)	Naphthalene	15.237	128	731466	46.66	ug/L		98
105)	1,2,3-Trichlorobenzene	15.407	180	294703	39.20	ug/L		97
107)	Ethanol	4.267	45	54056m	1062.04	ug/L		
108)	acrolein	4.737	56	230211	246.61	ug/L		97
109)	Tert Butyl Alcohol	5.366	59	231468	406.83	ug/L		93
110)	tert Amyl alcohol	7.552	59	195128	441.68	ug/L		95
111)	Isobutyl alcohol	7.428	42	175898	985.64	ug/L	#	85
112)	1,4-Dioxane	8.651	88	38644	823.13	ug/L		95
113)	3,3-Dimethyl-1-butanol	10.413	57	982346	2142.19	ug/L		95

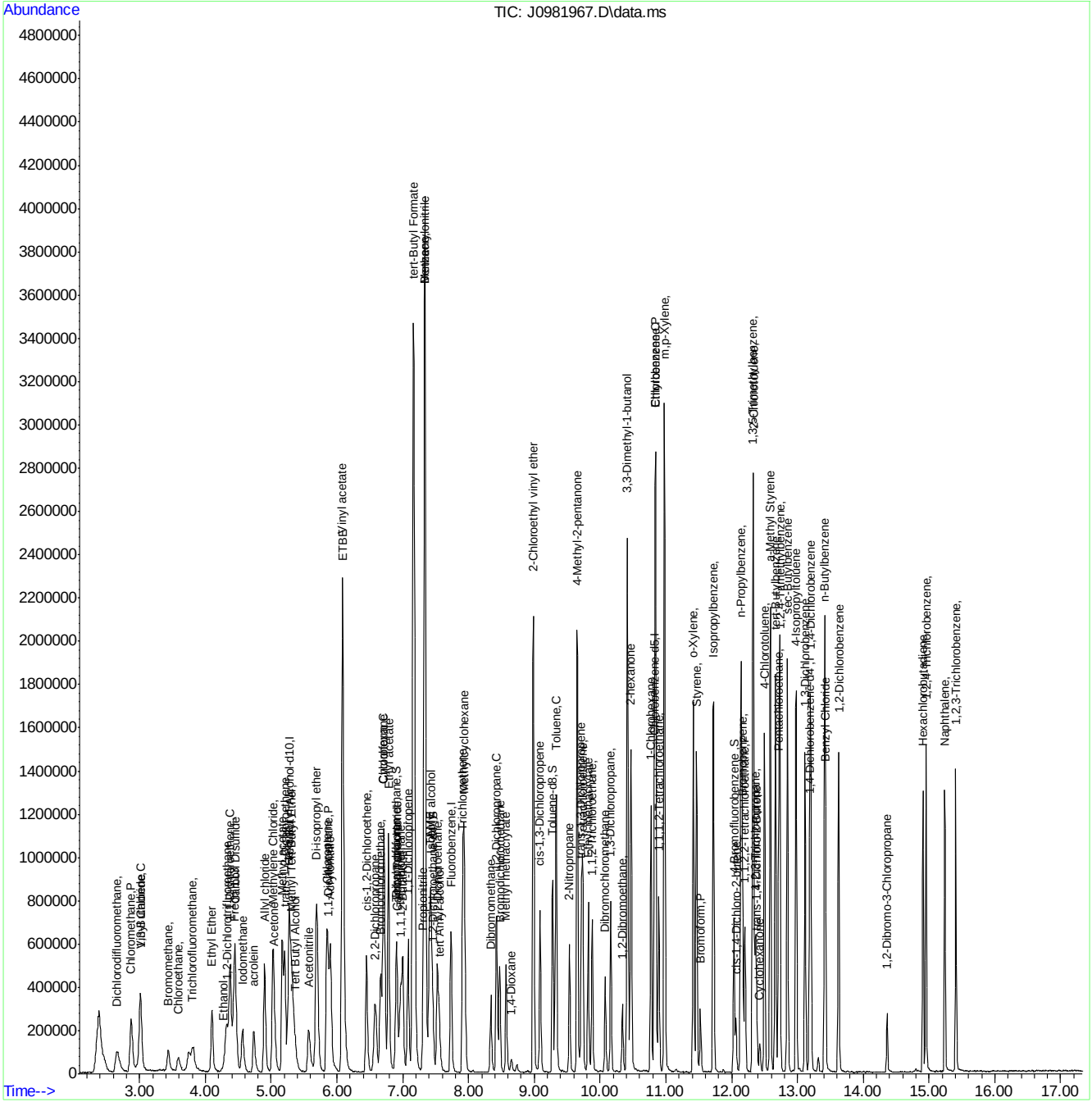
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST FA39742

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\010417\
Data File : J0981967.D
Acq On : 4 Jan 2017 6:04 pm
Operator : darshnap
Sample : ecc5529-5 Inst : MSVOA6
Misc : MS35997,VJ5532,,,,,
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Jan 05 08:01:11 2017
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jan 03 08:23:52 2017
Response via : Initial Calibration



SGS ACCUTEST FA39742

Manual Integration Approval Summary

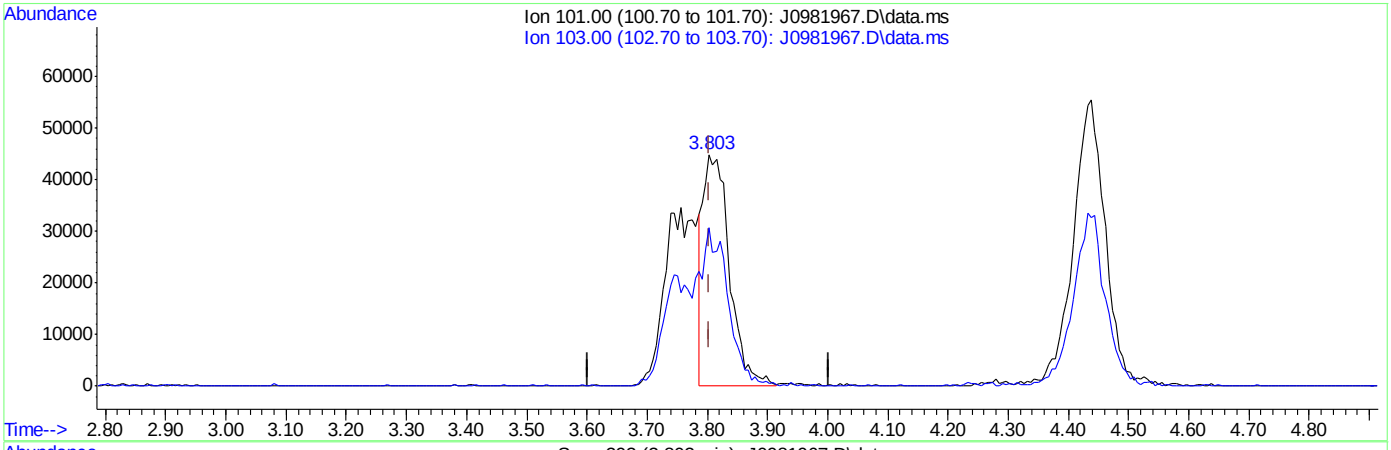
Sample Number:	VJ5532-ECC5529	**Method:**	SW846 8260B
Lab FileID:	J0981967.D	**Analyst approved:**	01/05/17 09:27 Darshna Patel
Injection Time:	01/04/17 18:04	**Supervisor approved:**	01/05/17 11:20 Melissa Mangual

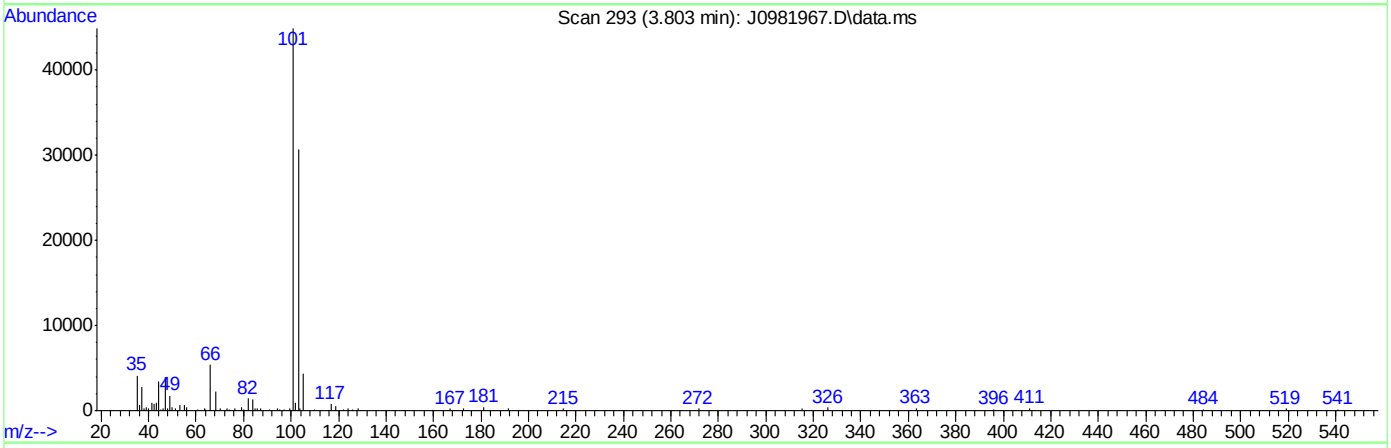
Parameter	CAS	Sig#	R.T. (min.)	Reason
Trichlorofluoromethane	75-69-4		3.80	Split peak
Ethyl Alcohol	64-17-5		4.27	Poor instrument integration
Carbon Tetrachloride	56-23-5		6.91	Overlapping peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\010417\
Data File : J0981967.D
Acq On : 4 Jan 2017 6:04 pm
Operator : darshnap
Sample : ecc5529-5 Inst : MSVOA6
Misc : MS35997,VJ5532,,,,,
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Jan 05 07:40:57 2017
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jan 03 08:23:52 2017
Response via : Initial Calibration





TIC: J0981967.D\data.ms

(8) Trichlorofluoromethane ( )

3.803min (+0.000) 22.31ug/L

response 136827

Ion	Exp%	Act%
101.00	100	100
103.00	55.20	68.32
0.00	0.00	0.00
0.00	0.00	0.00

SGS ACCUTEST FA39742

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\010417\
Data File : J0981967.D
Acq On : 4 Jan 2017 6:04 pm
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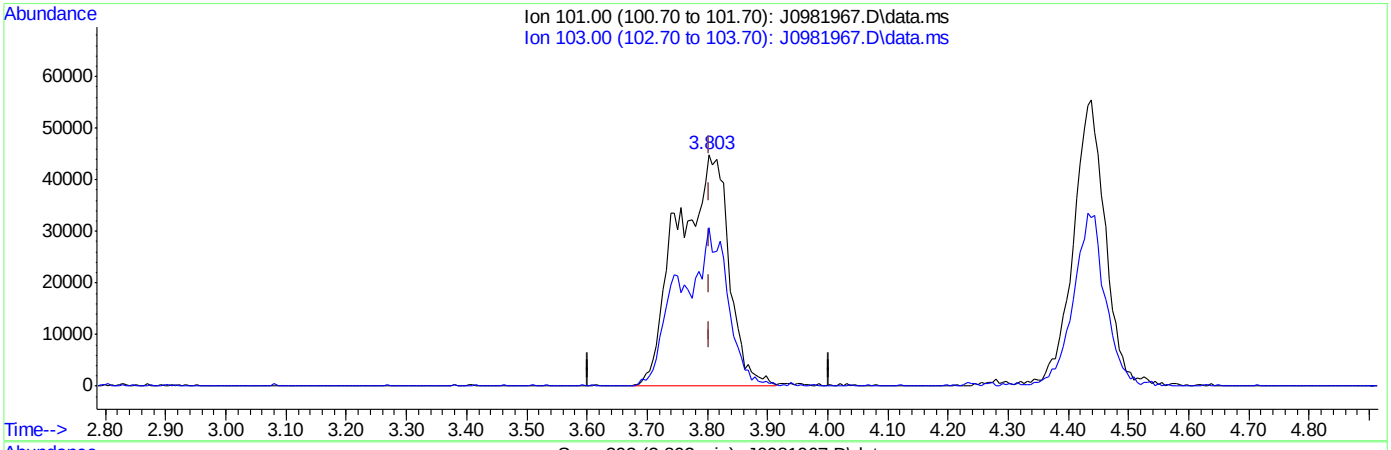
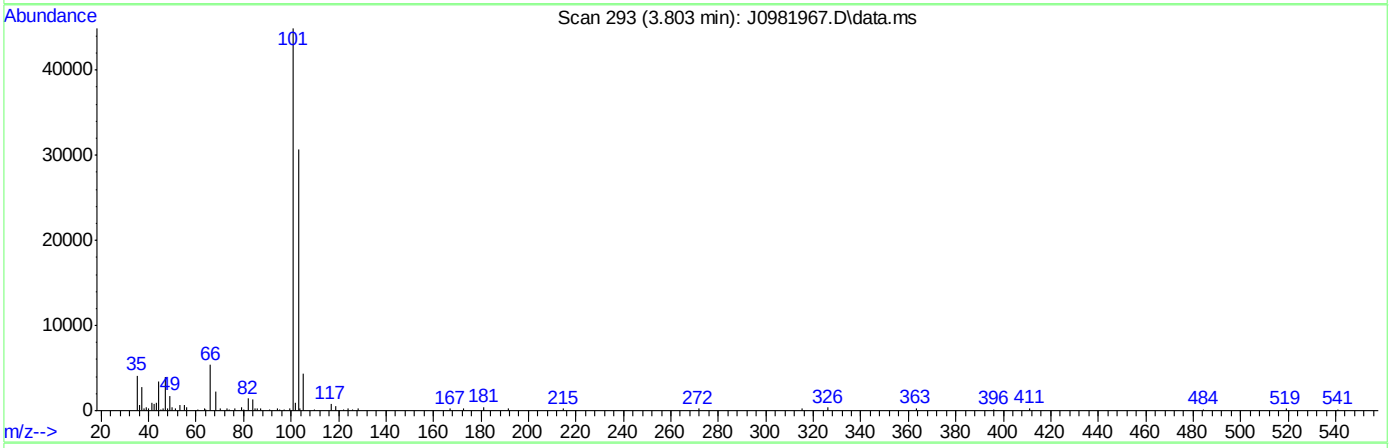
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jan 03 08:23:52 2017
Response via : Initial Calibration





(8) Trichlorofluoromethane ( )

3.803min (+0.000) 43.22ug/L m

response 265049

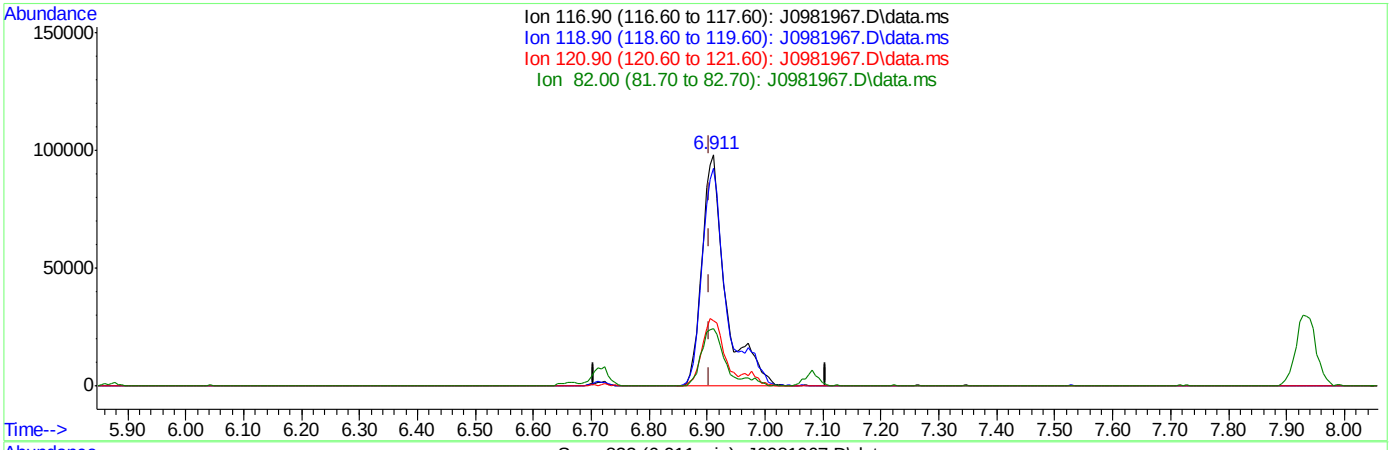
Ion	Exp%	Act%
101.00	100	100
103.00	55.20	68.42
0.00	0.00	0.00
0.00	0.00	0.00

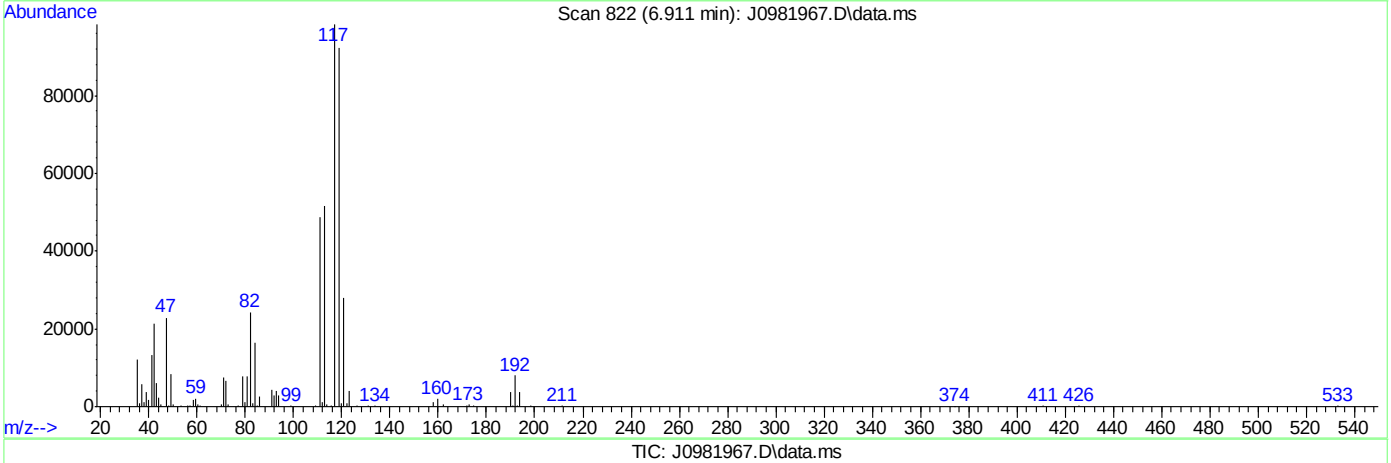
SGS ACCUTEST FA39742

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\010417\
Data File : J0981967.D
Acq On : 4 Jan 2017 6:04 pm
Operator : darshnap
Sample : ecc5529-5 Inst : MSVOA6
Misc : MS35997,VJ5532,,,,,
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Jan 05 07:40:57 2017
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jan 03 08:23:52 2017
Response via : Initial Calibration





TIC: J0981967.D\data.ms

(37) Carbon Tetrachloride ( )

6.911min (+0.006) 44.83ug/L

response 281301

Ion	Exp%	Act%
116.90	100	100
118.90	91.30	93.85
120.90	30.80	28.34
82.00	23.30	24.68

SGS ACCUTEST FA39742

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\010417\
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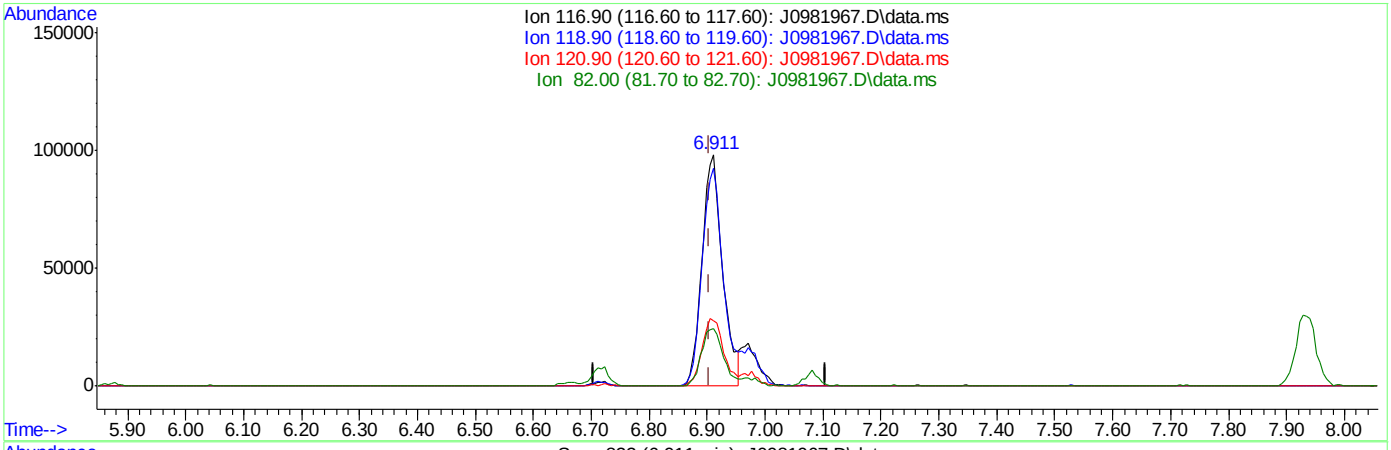

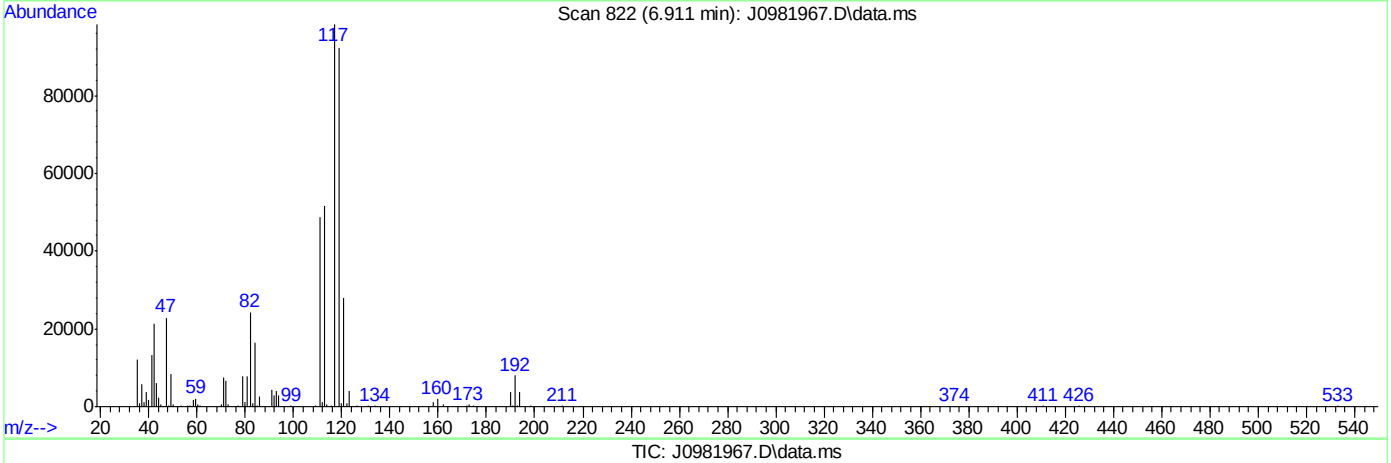

TIC: J0981967.D\data.ms

(37) Carbon Tetrachloride ( )

6.911min (+0.006) 38.74ug/L m

response 243095

Ion	Exp%	Act%
116.90	100	100
118.90	91.30	93.85
120.90	30.80	28.34
82.00	23.30	24.68

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\010417\
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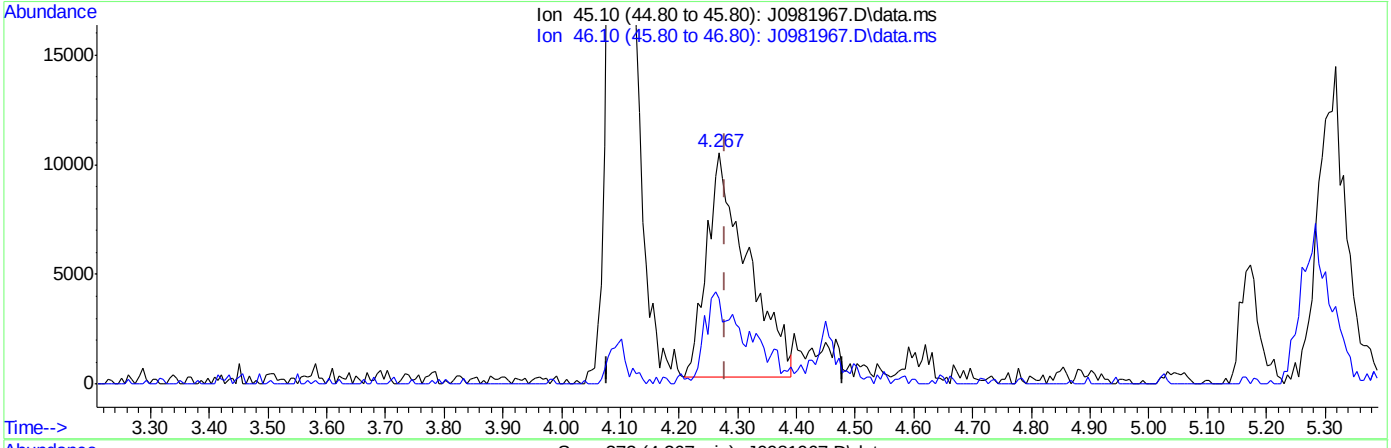

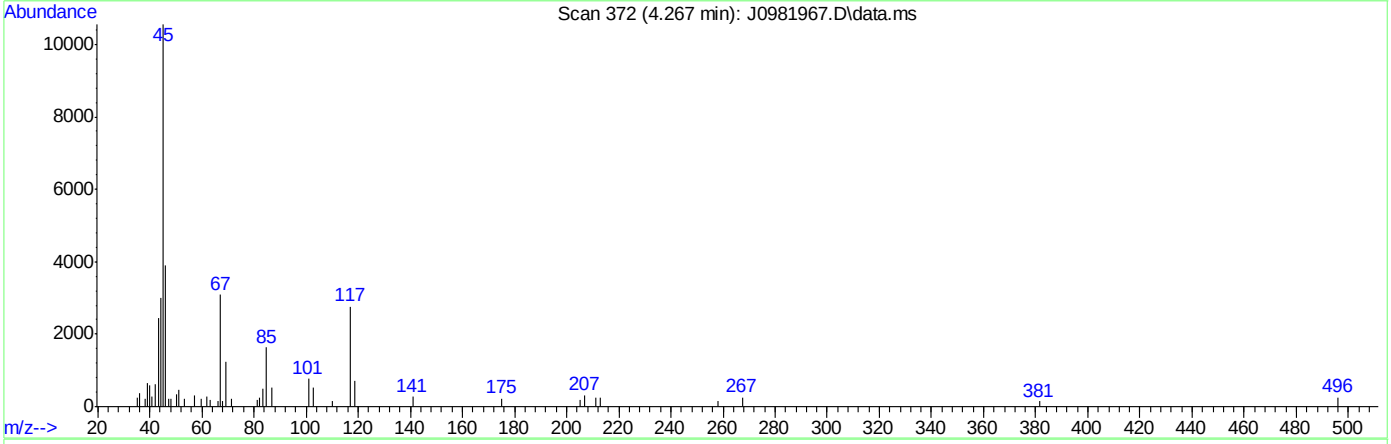

TIC: J0981967.D\data.ms

(107) Ethanol

4.267min (-0.012) 965.04ug/L

response 49116

Ion	Exp%	Act%
45.10	100	100
46.10	41.60	36.10
0.00	0.00	0.00
0.00	0.00	0.00

SGS ACCUTEST FA39742

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\010417\
Data File : J0981967.D
Acq On : 4 Jan 2017 6:04 pm
Operator : darshnap
Sample : ecc5529-5 Inst : MSVOA6
Misc : MS35997,VJ5532,,,,,
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Jan 05 07:40:57 2017
Quant Method : C:\msdchem\1\methods\MSJ123016.M
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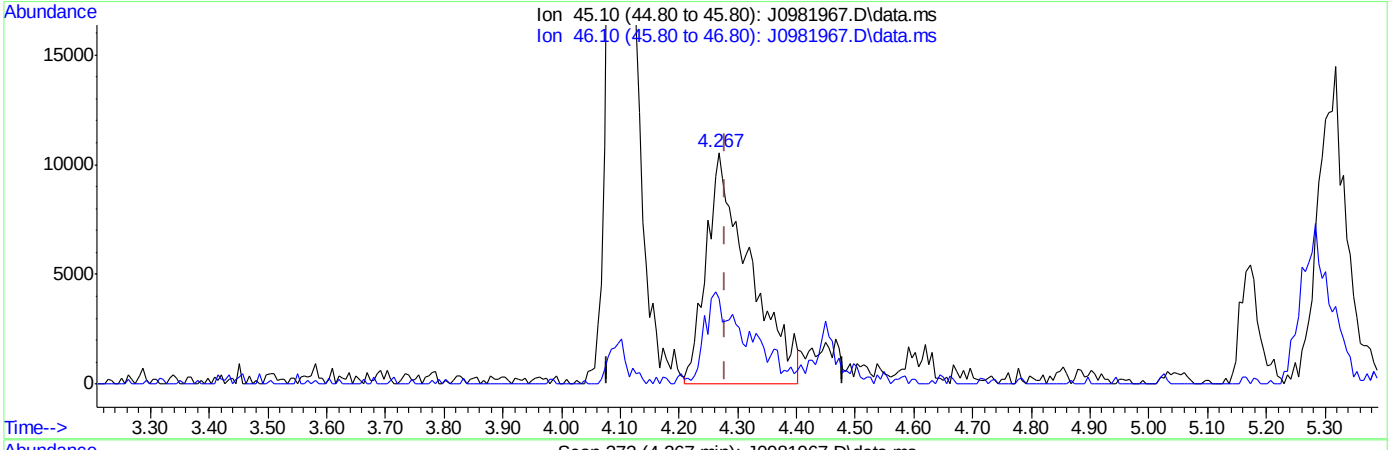

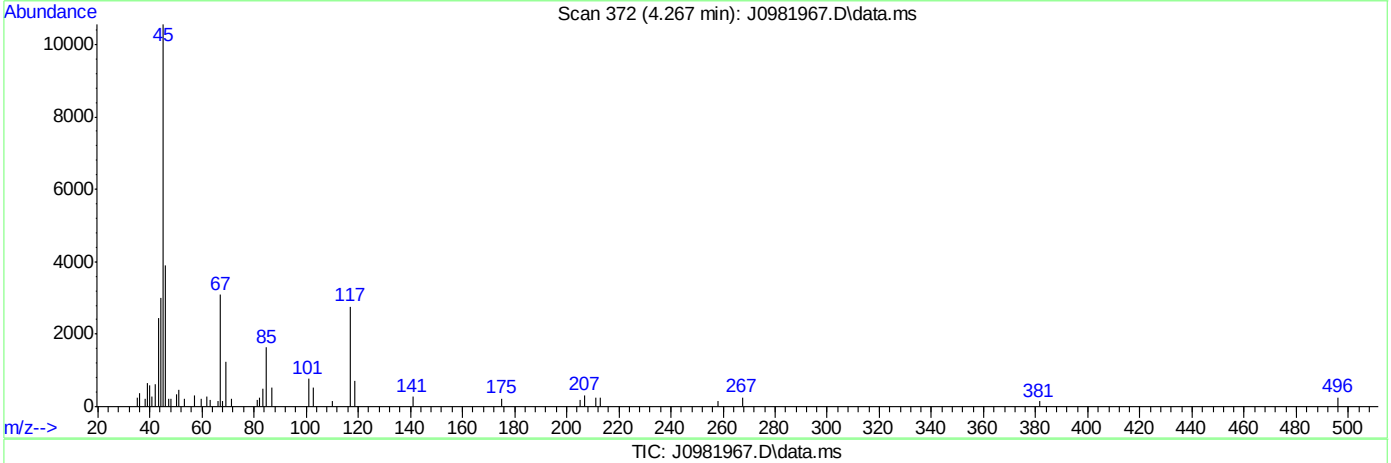

(107) Ethanol

4.267min (-0.012) 1062.04ug/L m

response 54056

Ion	Exp%	Act%
45.10	100	100
46.10	41.60	37.05
0.00	0.00	0.00
0.00	0.00	0.00

SGS ACCUTEST FA39742

SGS ACCUTEST-ORLANDO

DATE:	12/22/16
COLUMN TYPE:	RTX-VMS
DETECTOR:	5975 MSD
INSTRUMENT:	MSVOA16-I
PURGE PRESSURE:	8.9PSI
ANALYST:	WILFREDO V.

1-12pH
Lot 200814
0-3pH
Lot 230315

MS VOA16-I ANALYSIS LOG

METHODS:*	8260D
METHOD FILE:	I-DEC22
CALIB. DATE:	12/22/16
EM VOLTAGE:	1588
BFB RESPONSE:	33333332
RUN ID:	VI 1214

STANDARDS

BFB:	V21176
ICAL/CCV:	V21158, V21168, V21167, V21204, V21192, V21144, V21191, V21190
ISTD/SURR:	V21176
ICV/QC:	V21160, V21173, V21130, V21206, V21180, V21196, V21207, V21155
Purge Volume:	5ml

DATA FILE	SAMPLE ID, DIL.	Vial #	MATRIX	ALS POS.	SAMPLE METHOD	MANUALLY INTEGRATED PEAKS RATIONALE, PEAK #	PH	CI ?	RR	COMMENTS
I 44362	BLANK	NA	W	1	8260D		NA	NA	ND	
I 63	BFB			2						PASS-AUTOFIND
I 64	IC 12-14-1			1						10ml (DF1(2) INTO 50ml)
I 65	2			2						5ul INTO 100ml
I 66	3			3						5ul INTO 50ml
I 67	4			4						12.5ul INTO 50ml
I 68	5			5						20ul INTO 50ml
I 69	6			6						35ul INTO 50ml
I 70	7			7						50ul INTO 50ml
I 71	BLANK			8						
I 72	ICV 1214-5			9		SP: 12DCE PII: ETHOL				25ul → 50ml
I 73	BS			10		↓ PII: ETHOL, 14DIOX				12.5ul → 50ml
I 74	MB	↓		1			↓	↓		
I 75	FA39435-5	9		2			1	ND		
I 76	6	1		3			1			
I 77	FA39470-30	3		4			1			
I 78	31, 100X	3		5			1			0.5ml → 50ml
I 79	FA39493-1, 5X	3		6			1			10ml → 50ml
I 80	2	3		7			1			
I 81	3	3		8			1			
I 82	4	3		9			1			
I 83	5	3		10			1			
I 84	FA39437-1, 5X	2		11			1			10ml → 50ml
I 85	350X	2		12			1			1ml → 50ml
I 86	4, 25X	2		13		SP: TBA	1			2ml → 50ml
I 87	7	2		14			1			
I 88	FA39470-10, 1000X	3	↓	15	↓		1	↓		0.05ml → 50ml

* For NELAC purposes, Method 8260 includes analytes by SOP MS005

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: [signature]

msvoa16_i_log.xls ME 06/16

SGS ACCUTEST FA39742

SGS ACCUTEST-ORLANDO

DATE:	12/22/16
COLUMN TYPE:	27X-VMS
DETECTOR:	5975 MSD
INSTRUMENT:	MSVOA16-I
PURGE PRESSURE:	8.3 PSI
ANALYST:	WILFREDO

1-12 pH
Lot 200814
0-3 pH
Lot 230315

MS VOA16-I ANALYSIS LOG

METHODS:*	8260D
METHOD FILE:	I-DEC22
CALIB. DATE:	12/22/16
EM VOLTAGE:	1588
BFB RESPONSE:	3242487
RUN ID:	VI 1214, 1215

STANDARDS

BFB:	V21176
ICAL/CCV:	V21158, V21167, V21167, V21184, V21192, V21144, V21191, V21190
ISTD/SURR	V21176
ICV/QC:	V21160, V21173, V21150, V21206, V21196, V21207, V21155
Purge Volume	5ml

DATA FILE	SAMPLE ID, DIL.	Vial #	MATRIX	ALS POS.	SAMPLE METHOD	MANUALLY INTEGRATED PEAKS RATIONALE, PEAK #	PH	CI ?	RR	COMMENTS
1 4-4389	FA39685-1	2	W	16	8260D		1	ND		
1 90	FA39470-3MS,100	3		17		PII: ETHANOL	1			1ml→100ml +12.5ul→40ml
1 91	3MSD,100	3		18		SP: 12DTF PII: ETHANOL, 14DX	1			↓
1 92	ECL1214-5	NA		19		↓ ↓	NA	NA		20ul → 50ml
1 93	BLANK			20						
1 94	BFB			21						
1 95	CL1214-5			22		PII: 14DIOX, ETHANOL				20ul → 50ml
1 96	BS			23		SP: 12DTF, PII: 14DIOX, ETHANOL				12.5ul → 40ml
1 97	MB	↓		24			↓	↓		
1 98	FA39685-2	2		25			1	ND		
1 99	3	2		26			1			
1 400	4	2		27			1			
1 01	5	2		28			1			
1 02	6	2		29			1			
1 03	7	2		30			1			
1 04	8	3		31			1			
1 05	9	2		32			1			
1 06	10	2		33			1			
1 07	11	3		34			1			
1 08	12	2		35			1			
1 09	13	2		36			1			
1 10	14	2		37			1			
1 11	15	2		38			1			
1 12	16	1		39			1			
1 13	17	2		40			1			
1 14	5MS	7		41		PII: ETHANOL 14DIOX	1			12.5ul → 40ml
1 15	5MSD	7	↓	41	↓	↓	1	↓		12.5ul → 40ml
16	ECL1214-5	NA	W	42	8260D	20ul→50ml SP: 12DTF PII: ETHANOL, 14DIOX	NA	NA	ND	

* For NELAC purposes, Method 8260 includes analytes by SOP MS005

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: [signature]

msvoa16_i_log.xls ME 06/16

SGS ACCUTEST-ORLANDO

DATE:	12/28/16
COLUMN TYPE:	RTX-VMS
DETECTOR:	5975 MSD
INSTRUMENT:	MSVOA16-I
PURGE PRESSURE:	8.1PSI
ANALYST:	WILFREDO Y.

1-12pH
Lot 200814
0-3pH
Lot 230315

MS VOA16-I ANALYSIS LOG

METHODS:*	8260
METHOD FILE:	1-DEC22
CALIB. DATE:	12/22/16
EM VOLTAGE:	1588
BFB RESPONSE:	377584
RUN ID:	VI 1223,1222

STANDARDS

BFB:	V21176
ICAL/CCV:	V21213,V21167,V21168,V21222,V21192, V21221,V21214,V21223
ISTD/SURR:	V21176
ICV/QC:	V21160,V21173,V21130,V21224,V21180, V21196,V21207,V21226
Purge Volume:	5ml

DATA FILE	SAMPLE ID, DIL.	Vial #	MATRIX	ALS POS.	SAMPLE METHOD	MANUALLY INTEGRATED PEAKS RATIONALE, PEAK #	PH	CI ?	RR	COMMENTS
4-4533	CONDITIONING MIX									
1 4-4534	BFB	NA	W	2	8260		NA	NA	ND	PASS-AUTOFIND
1 35	CL12-.5			3						20ml → 50ml
1 36	BS			4						12.5ml → 40ml
1 37	MB			5						0.1ml w/ 12/28/16
1 38	FA39646-8 MA	3		1		500X		ND		~~2ml~~ → 50ml
1 39	FA39684-17,25X	5		2						2ml → 50ml
1 40	FA39834-6	2		3						
1 41	7	2		4						
1 42	8	2		5						
1 43	9	2		6						
1 44	10	2		7						
1 45	11	2		8						
1 46	12	2		9						
1 47	FA39684-17MS,25	5		10		SP:12DTF PII:ETHNOL,14DIOX				2ml → 100ml, 12.5ml → 40ml
1 48	17MSD,25	5		11						
1 49	FA39742-2	1		12						
1 ~~5050~~	3	1		13						
1 12/28/16 51	4	1		14						
1 52	5	1		15						
1 53	7	2		16		SP:12DTF				
1 54	8	2		17		MP:14DCB				
1 55	9	1		18						
1 56	10	2		19		SP:12DTF				
1 57	13	2		20						
1 58	14	1		21						
1 59	15	2		22						
1 60	FA39843-1D,1B	1		23		MB				
61	ELL1214-5,20ml→50ml		W	24	8260	SP:12DTF				

* For NELAC purposes, Method 8260 includes analytes by SOP MS005

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: [signature]

msvoa16_i_log.xls ME 06/16

SGS ACCUTEST-ORLANDO

DATE:	12/28/16
COLUMN TYPE:	RTX-VMS
DETECTOR:	5975 MSD
INSTRUMENT:	MSVOA16-I
PURGE PRESSURE:	8.1PSI
ANALYST:	WILFREDO V.

1-12pH
Lot 200814
0-3pH
Lot 230315

MS VOA16-I ANALYSIS LOG

METHODS:*	8260
METHOD FILE:	1-DEC22
CALIB. DATE:	12/22/16
EM VOLTAGE:	1588
BFB RESPONSE:	97758 41
RUN ID:	VI 1223,1222

STANDARDS

BFB:	V21176
ICAL/CCV:	V21213,V21167,V21168,V21222,V21192, V21221,V21214,V21223
ISTD/SURR:	V21176
ICV/QC:	V21160,V21173,V21130,V21224,V21180, V21196,V21207,V21226
Purge Volume:	5ml

DATA FILE	SAMPLE ID, DIL.	Vial #	MATRIX	ALS POS.	SAMPLE METHOD	MANUALLY INTEGRATED PEAKS RATIONALE, PEAK #	PH	CI ?	RR	COMMENTS
44533	CONDITIONING MIX									
1 44534	BFB	NA	W	2	8260		NA	NA	ND	PH, SS-AVIDF ND
1 35	CCL 12-14-5			3						20ml → 5DM
1 36	BS			4						12.5ml → 4DM
1 37	MB			5						0.1ml w/ 12/28/16
1 38	FA39646-8 MA	3		1		5DDX	1	ND		~~2ml~~ → 5DM
1 39	FA39684-17,25X	5		2			1			2ml → 5DM
1 40	FA39834-6	2		3			1			
1 41	7	2		4			1			
1 42	8	2		5			1			
1 43	9	2		6			1			
1 44	10	2		7			1			
1 45	11	2		8			1			
1 46	12	2		9			1			
1 47	FA39684-17MSD25	5		10		SP:12DTF PII:ETHNOL,14DIOX	1			2ml → 10DM + 12.5ml → 40ml
1 48	17MSD,25	5		11			1			
1 49	FA39742-2	1		12			1			
1 50 ~~50~~	3	1		13			1			
1 12/28/16 51	4	1		14			1			
1 52	5	1		15			1			
1 53	7	2		16		SP:12DTF	1			
1 54	8	2		17		MP:14DCB	1			
1 55	9	1		18			1			
1 56	10	2		19		SP:12DTF	1			
1 57	13	2		20			1			
1 58	14	1		21			1			
1 59	15	2		22			1			
1 60	FA39843-~~10MB~~	1		23		~~MB~~	1			
61	ECL 12-14-5, 20ml → 5DM		W	24	8260	SP:12DTF				

* For NELAC purposes, Method 8260 includes analytes by SOP MS005

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: [signature]

msvoa16_i_log.xls ME 06/16

SGS ACCUTEST FA39742

SGS ACCUTEST-ORLANDO

DATE:	12/29/16
COLUMN TYPE:	RTX-VMS
DETECTOR:	5975 MSD
INSTRUMENT:	MSVOA16-I
PURGE PRESSURE:	8.1 PSI
ANALYST:	WILFREDO Y.

1-12pH
Lot 200814
0-3pH
Lot 230315

MS VOA16-I ANALYSIS LOG

METHODS:*	8260D
METHOD FILE:	I-DEL22
CALIB. DATE:	12/22/16
EM VOLTAGE:	1588
BFB RESPONSE:	36/36.99
RUN ID:	VI 1226, 1227

STANDARDS

BFB:	V21176
ICAL/CCV:	V21218, V21168, V21167, V21213, V21221, V21214, V21223, V21241
ISTD/SURR:	V21176
ICV/QC:	V21173, V21130, V21160, V21224, V21180,
Purge Volume:	5ml V21196, V21207, V21226

DATA FILE	SAMPLE ID, DIL.	Vial #	MATRIX	ALS POS.	SAMPLE METHOD	MANUALLY INTEGRATED PEAKS RATIONALE, PEAK #	PH	CI ?	RR	COMMENTS
44590	CONDITIONING MIX									
44591	BFB	NA	W	2	8260		NA	NA	ND	PASS - AUTOFIND
92	CL1214-5			3						20ul → 50ml
93	BS			4						12.5ul → 40ml
94	MB			5						
95	FA39957-2,2.5X	3		1		RECEIVED W/1ml HEADSPACE		ND		20ml → 50ml
96	3,2.5X	2		2						20ml → 50ml
97	FA39678-1	3		3						
98	3	3		4						
99	4	2		5						
6000	2,20X	3		6						2.5ml → 50ml
01	FA39747-1	2		7		SP:12DCTF				
02	11	3		8						
03	12	2		9						
04	FA39678-2MS,20	3		10		SP:12DCTF PII:ETHANOL				5ml→100ml, 125ul→40ml
05	2MSD,20	3		11		PII:ETHANOL, 14DIOX				
06	FA39674-3	3		12						
07	5	3		13						
08	6	1		14						
09	FA39675-1	3		15						
10	3	2		16						
11	6	2		17						
12	FA39676-1	3		18						
13	2	3		19						
14	3	3		20						
15	4 - INV 12/29/16	32		21						
16	FA39674-1,100X	3		22						2.5ml → 50ml
17	FA39675-5,10X	3		23					50X	5ml → 50ml
18	CL1214-5,20ul→50ml	NA	W	24	8260D	SP:12DCTF	NA	NA	ND	

* For NELAC purposes, Method 8260 includes analytes by SOP MS005

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: [signature]

msvoa16_i_log.xls ME 06/16

SGS ACCUTEST FA39742

SGS ACCUTEST-ORLANDO

DATE:	12/29/16
COLUMN TYPE:	RTX-VMS
DETECTOR:	5975 MSD
INSTRUMENT:	MSVOA16-I
PURGE PRESSURE:	8.1 PSI
ANALYST:	WILFREDO V.

1-12pH
Lot 200814
0-3pH
Lot 230315

MS VOA16-I ANALYSIS LOG

METHODS:*	8260D
METHOD FILE:	I-DEL22
CALIB. DATE:	12/22/16
EM VOLTAGE:	1588
BFB RESPONSE:	36/36.99
RUN ID:	VI 1226, 1227

STANDARDS

BFB:	V21176
ICAL/CCV:	V21213, V21169, V21167, V21213, V21221, V21214, V21223, V21241
ISTD/SURR:	V21176
ICV/QC:	V21173, V21130, V21160, V21224, V21180,
Purge Volume:	5ml V21196, V21207, V21226

DATA FILE	SAMPLE ID, DIL.	Vial #	MATRIX	ALS POS.	SAMPLE METHOD	MANUALLY INTEGRATED PEAKS RATIONALE, PEAK #	PH	CI ?	RR	COMMENTS
44590	CONDITIONING MIX									
44591	BFB	NA	W	2	8260D		NA	NA	ND	PASS-AUTOFIND
92	CCI214-5			3						20ul → 50ml
93	BS			4						12.5ul → 40ml
94	MB			5						
95	FA39957-2,2.5X	3		1		RECEIVED W/1ml HEADSPACE		ND		20ml → 50ml
96	3,2.5X	2		2						20ml → 50ml
97	FA39678-1	3		3						
98	3	3		4						
99	4	2		5						
6000	2,20X	3		6						2.5ml → 50ml
01	FA39747-1	2		7		SP:12DCTF				
02	11	3		8						
03	12	2		9						
04	FA39678-2MB,20	3		10		SP:12DCTF PII:ETHANOL				5ml→100ml 1.25ul→40ml
05	2MB,20	3		11		PII:ETHANOL, 14DIOX				
06	FA39674-3	3		12						
07	5	3		13						
08	6	1		14						
09	FA39675-1	3		15						
10	3	2		16						
11	6	2		17						
12	FA39676-1	3		18						
13	2	3		19						
14	3	3		20						
15	4 12/29/16	2		21						
16	FA39674-1,100X	3		22						0.5ml → 50ml
17	FA39675-5,10X	3		23					50X	5ml → 50ml
18	CCI214-5,20ul→50ml	NA	W	24	8260D	SP:12DCTF	NA	NA	ND	

* For NELAC purposes, Method 8260 includes analytes by SOP MS005

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: [signature]

msvoa16_i_log.xls ME 06/16

SGS ACCUTEST FA39742

SGS ACCUTEST-ORLANDO

DATE:	12/30/16
COLUMN TYPE:	RTX-VMS
DETECTOR:	5975 MSD
INSTRUMENT:	MSVOA16-I
PURGE PRESSURE:	8.1PSI
ANALYST:	WILFREDO Y.

1-12 pH
Lot 200814
0-3 pH
Lot 230315

MS VOA16-I ANALYSIS LOG

METHODS:*	8260D, 8260DC
METHOD FILE:	I-DEC22
CALIB. DATE:	12/22/16
EM VOLTAGE:	1588
BFB RESPONSE:	3964632
RUN ID: VI	229, 230

STANDARDS

BFB:	V21247
ICAL/CCV:	V21213, V21168, V21167, V21243, V21244, V21221, V21214, V21228
ISTD/SURR:	V21247
ICV/QC:	V21160, V21130, V21173, V21224, V21180, V21196, V21207, V21226
Purge Volume:	5 ml

DATA FILE	SAMPLE ID, DIL.	Vial #	MATRIX	ALS POS.	SAMPLE METHOD	MANUALLY INTEGRATED PEAKS RATIONALE, PEAK #	PH	CI ?	RR	COMMENTS
44647	CONDITIONING MIX									
44648	BFB	NA	W	1	8260D		NA	NA	ND	PASS-AUTOFIND
49	CC1214-5			2						20 ul → 50 ml
50	DS			3						12.5 ul → 40 ml
51	MB			4						
52	FAB BS WV 12/30/16			1						12.5 ul → 40 ml
53	FA39770-1	3		2				ND		
54	3	2		3						
55	4	1		4						
56	5	2		5						
57	7	1		6						
58	8	2		7						
59	FA39721-2.5X	2		8						10 ml → 50 ml
60	FA39770-6.25X	2		9						2 ml → 50 ml
61	9.25X	2		10						2 ml → 50 ml
62	10.25X	2		11						2 ml → 50 ml
63	9MS, 200X	3		12		SP: 720CTF, PII: ETNR, MPDX				0.5 ml → 100 ml + 12.5 ul → 40 ml
64	9MSD, 200X	3		13						
65	9, 200X	3		14						0.25 ml → 50 ml
66	FA39833-1	1		15	8260DC					
67	2	1		16						
68	3	1		17						
69	4	1		18						
70	5	1		19						
71	6	1		20						
72	7	1		21						
73	FA39742-16	1		22						
74	16	6		23		MP: ETHB, XYL			SOX	

* For NELAC purposes, Method 8260 includes analytes by SOP MS005

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: [signature]

msvoa16_i_log.xls ME 06/16

SGS ACCUTEST-ORLANDO

DATE:	12/30/16
COLUMN TYPE:	RTX-VMS
DETECTOR:	5975 MSD
INSTRUMENT:	MSVOA16-I
PURGE PRESSURE:	8.1 PSI
ANALYST:	WILFREDO V.

MS VOA16-I ANALYSIS LOG

METHODS:*	8260, 8260DC
METHOD FILE:	I: DEC22
CALIB. DATE:	12/22/16
EM VOLTAGE:	1588
BFB RESPONSE:	39647632
RUN ID:	VI 1229, 1230

STANDARDS

BFB:	V21247
ICAL/CCV:	V21223, V21167, V21167, V21243, V21241, V21221, V21214, V21223
ISTD/SURR:	V21247
ICV/QC:	V21160, V21130, V21132, V21221, V21180, V21196
Purge Volume:	5ml V21207, V21226

DATA FILE	SAMPLE ID, DIL.	Vial #	MATRIX	ALS POS.	SAMPLE METHOD	MANUALLY INTEGRATED PEAKS RATIONALE, PEAK #	PH	CI ?	RR	COMMENTS
44675	FA39742-17	1	W	24	8260DC		1	ND	ND	
76	-16MS	9	↓	25	↓	MP: 69, 70, 73, PII: 107, 112, SP: 10	1	↓	↓	12.5ml → 40ml
77	16MSD	8	↓	26	↓	↓	1	↓	↓	12.5ml → 40ml
78	ECC1214-5	NA	↓	27	8260	↓ 12/30/16 ↓	NA	NA	↓	20ml → 50ml 12/27/16

WV 12/30/16

* For NELAC purposes, Method 8260 includes analytes by SOP MS005

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: [signature]

msvoa16_i_log.xls ME 06/16

SGS ACCUTEST-ORLANDO

DATE:	12/30/16
COLUMN TYPE:	RTX-VMS
DETECTOR:	5975 MSD
INSTRUMENT:	MSVOA16-I
PURGE PRESSURE:	8.1 PSI
ANALYST:	WILFREDO Y.

1-12 pH
Lot 200814
0-3 pH
Lot 230315

MS VOA16-I ANALYSIS LOG

METHODS:*	8260D, 8260DC
METHOD FILE:	I-DEL22
CALIB. DATE:	12/22/16
EM VOLTAGE:	1588
BFB RESPONSE:	39.64632
RUN ID:	VI 1229, 1230

STANDARDS

BFB:	V21247
ICAL/CCV:	V21243, V21168, V21167, V21243, V21244, V21221, V21224, V21228
ISTD/SURR:	V21247
ICV/QC:	V21160, V21130, V21173, V21224, V21180, V21196, V21207, V21226
Purge Volume:	5 ml

DATA FILE 44647	SAMPLE ID, DIL. CONDITIONING MIX	Vial #	MATRIX	ALS POS.	SAMPLE METHOD	MANUALLY INTEGRATED PEAKS RATIONALE, PEAK #	PH	CI ?	RR	COMMENTS
1 44648	BFB	NA	W	1	8260D		NA	NA	ND	PASS-AUTOFIND
1 49	CC1214-5			2						20 µl → 50 ml
1 50	DB			3						12.5 µl → 40 ml
1 51	MB			4						
1 52	FA3 BS w/ 12/30/16			1						12.5 µl → 40 ml
1 53	FA39770-1	3		2				ND		
1 54	3	2		3						
1 55	4	1		4						
1 56	5	2		5						
1 57	7	1		6						
1 58	8	2		7						
1 59	FA39721-2.5X	2		8						10 ml → 50 ml
1 60	FA39770-6.25X	2		9						2 ml → 50 ml
1 61	9.25X	2		10						2 ml → 50 ml
1 62	10.25X	2		11						2 ml → 50 ml
1 63	9MS, 200X	3		12		SP: 122DCTF, PII: ETNB, MDDX				0.5 ml → 100 ml + 12.5 µl → 40 ml
1 64	9MSD, 200X	3		13						
1 65	9, 200X	3		14						0.25 ml → 50 ml
1 66	FA39833-1	1		15	8260DC					
1 67	2	1		16						
1 68	3	1		17						
1 69	4	1		18						
1 70	5	1		19						
1 71	6	1		20						
1 72	7	1		21						
1 73	FA39742-16	1		22						
1 74	16	6		23		MP: ETHB, XYL			50X	

* For NELAC purposes, Method 8260 includes analytes by SOP MS005

Matrix: Designate "W" for Water, "S" for Soil, "O" for Oil, "Liq" for Non-aqueous Liquid, and "TCLP" or "SPLP" for Leachate

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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]

msvoa16_i_log.xls ME 06/16

SGS ACCUTEST-ORLANDO

DATE:	12/30/16
COLUMN TYPE:	RTX-VMS
DETECTOR:	5975 MSD
INSTRUMENT:	MSVOA16-I
PURGE PRESSURE:	8.1 PSI
ANALYST:	WILFREDO Y.

MS VOA16-I ANALYSIS LOG

METHODS:*	8260, 8260C
METHOD FILE:	I-DEC22
CALIB. DATE:	12/22/16
EM VOLTAGE:	1588
BFB RESPONSE:	39647632
RUN ID:	VI 1229, 1230

STANDARDS

BFB:	V21247
ICAL/CCV:	V21223, V21168, V21167, V21243, V21241, V21221, V21214, V21223
ISTD/SURR:	V21247
ICV/QC:	V21160, V21130, V21173, V21224, V21180, V21196
Purge Volume:	5ml V21207, V21222

DATA FILE	SAMPLE ID, DIL.	Vial #	MATRIX	ALS POS.	SAMPLE METHOD	MANUALLY INTEGRATED PEAKS RATIONALE, PEAK #	PH	CI ?	RR	COMMENTS
44675	FA39742-17	1	W	24	8260C		1	ND	ND	
76	-16MS	9	↓	25	↓	MP: 69, 70, 73, PII: 107, 112, SP: 10	1	↓	↓	12.5ml → 40ml
77	16MSD	8	↓	26	↓	↓	1	↓	↓	12.5ml → 40ml
78	ECC1214-5	NA	↓	27	8260	→ VI 1229/1230 ↓	NA	NA	↓	20ml → 50ml 12/14/16

W W 12/30/16

* For NELAC purposes, Method 8260 includes analytes by SOP MS005

Matrix: Designate "W" for Water, "S" for Soil, "O" for Oil, "Liq" for Non-aqueous Liquid, and "TCLP" or "SPLP" for Leachate

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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]

msvoa16_i_log.xls ME 06/16

SGS ACCUTEST-ORLANDO

DATE:	12-30-16
COLUMN TYPE:	RTX-VMS
DETECTOR:	5973 MSD
INSTRUMENT:	MSVOA6-J
PURGE PRESSURE:	65
ANALYST:	Melissa Hargett

1-12 pH
Lot 200814
0-3 pH
Lot 230315

MS VOA6-J ANALYSIS LOG

METHODS:*	8260
METHOD FILE:	MSJ123016.M
CALIB. DATE:	12-30-16
EM VOLTAGE:	1635V
BFB RESPONSE:	1296629 / 1217746
RUN ID:	VJ5529

STANDARDS

BFB:	V21166
ICAL/CCV:	V21269, V21262, V21262, V21207, V21226, V21126, V21263, V21130
ISTD/SURR:	V21166
ICV/QC:	V21257, V21241, V21223, V21213, V21214
Purge Volume:	5mL V21221, V21168, V21167

QC

DATA FILE	SAMPLE ID, DIL.	Vial #	MATRIX	ALS POS.	SAMPLE METHOD	MANUALLY INTEGRATED PEAKS RATIONALE, PEAK #	PH	CI ?	RR	COMMENTS
J 1081823	Blank	-	W	1	8260		-	-		-
J 74	Blank			1			N/A	N/A		-
J 75	Blank/BFB.			1						Pass as authorized.
J 76	IC5529-1			1		PII(6,7,8 12 53, 88, 1,4097, 108,109				1uL (-) 100mL
J 77	-2			2		PII(107) OP(37)				5uL (-) 100mL
J 78	-3			3		PII(107 OP(37)				10uL (-) 100mL
J 79	-4			4		PII(107 OP(37)				25uL (-) 100mL
J 80	-5			5		PII(107 OP(37)				20uL (-) ~~100mL~~ 50mL
J 81	-6			6		PII(107 OP(37)				35uL (-) 50mL 12-30-16
J 82	-7			7		PII(107) OP(37)				50uL (-) 50mL
J 83	Blank			8		PII(107) OP(37)				PASS ~~AFB~~ HH 12/30/16
J 84	IC5529-5			9		SP(2) PII(107) OP(37)				25uL (-) 50mL ✓
J 85	Blank/BFB			10						BFB Auto ✓
J 86	Blank			10						✓
J 87	CC5529-5			1		SP(2) PII(107) OP(37)				20uL (-) 50mL ✓
J 88	B5			2		SP(2) PII(107) OP(37)				12.5uL (-) 50mL ✓
J 89	HB			3						NO
J 90	FA39891-1, 10X	2		4		OP(32)	1	N	10x	5mL (-) 50mL ✓ Naph.
J 91	-2	2		5			1			NO
J 92	-3, 5X	2		6			1			10mL (-) 50mL ✓ Naph.
J 93	-4	2		7			1			✓
J 94	-5	2		8			1			✓
J 95	-6	2		9			1			✓
J 96	-7	2		10			1			NO
J 97	-8	2		11			1			NO
J 98	-9	2		12			1			NO
J 99	-10	2		13			1			NO

* For NELAC purposes, Method 8260 includes analytes by SOP MS005

Matrix: Designate "W" for Water, "S" for Soil, "O" for Oil, "Liq" for Non-aqueous Liquid, and "TCLP" or "SPLP" for Leachate

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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]

msvoa6_j_log.xls ME 06/16

SGS ACCUTEST-ORLANDO

DATE:	12-30-16
COLUMN TYPE:	13 TFUMS
DETECTOR:	5973 MSD
INSTRUMENT:	MSVOA6-J
PURGE PRESSURE:	psi
ANALYST:	Melissa Hampel

MS VOA6-J ANALYSIS LOG

METHODS:*	8260
METHOD FILE:	MSJ123016.M
CALIB. DATE:	12-30-16
EM VOLTAGE:	1635 V
BFB RESPONSE:	1296629 / 1217746
RUN ID:	VJ 5529

STANDARDS

BFB:	V21166
ICAL/CCV:	V21257, V21241, V21223, V21213, V21214, V21221, V21168, V21163
ISTD/SURR:	V21160
ICV/QC:	V21260, V21240, V21262, V21207, V21226
Purge Volume:	5ml / V21261, V21263, V21130

	DATA FILE	SAMPLE ID, DIL.	Vial #	MATRIX	ALS POS.	SAMPLE METHOD	MANUALLY INTEGRATED PEAKS RATIONALE, PEAK #	PH	CI ?	RR	COMMENTS
J	00	FA39891-11	2	W	14	8260		1	N		ND
J	01	-12	2		15			1		Sx	mp xylene ↑ Naph.
J	02	-13	2		16			1			✓
J	03	-14, 2X	2		17			1			25ml (.5ml) ✓
J	04	-15	2		18			1			ND
J	05	-16, 10X	2		19			1		Sx	5ml (.5ml)
J	06	-17	2		20		Sample drained	1		1X	
J	07	-20	1		21			1			ND
J	08	-21	1		22			1			ND
J	09	-1MS, 10X	2		23		SP(8) OP(37) PII(107)	1			10.5ml (.5ml) ✓
J	10	-1MSD, 10X	2		23		SP(8)	1			10.5ml (.5ml) ✓
J	11	FC035209-5	–		24		SP(8) OP(37) PII(107)	–	–		20ml (.5ml) ✓
J											
J											
J											
J											
J											
J											
J											
J						-0317	DP				
J											
J											
J											
J											
J											
J											
J											
J											

* For NELAC purposes, Method 8260 includes analytes by SOP MS005

Matrix: Designate "W" for Water, "S" for Soil, "O" for Oil, "Liq" for Non-aqueous Liquid, and "TCLP" or "SPLP" for Leachate

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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]

msvoa6_j_log.xls ME 06/16

SGS ACCUTEST FA39742

SGS ACCUTEST-ORLANDO

DATE:	01-03-17
COLUMN TYPE:	RTX-UMS
DETECTOR:	5973 MSD
INSTRUMENT:	MSVOA6-J
PURGE PRESSURE:	10 psi
ANALYST:	DP

1-12pH Lot 200814
0-3pH Lot 230315

MS VOA6-J ANALYSIS LOG

METHODS:*	8260
METHOD FILE:	MS123016.m
CALIB. DATE:	12-30-16
EM VOLTAGE:	1653V
BFB RESPONSE:	1460096
RUN ID:	VJ5530/5531

STANDARDS

BFB:	V21166
ICAL/CCV:	V21257 V21241 V21214 V21221 V21223 V21213 V21167 V21168
ISTD/SURR:	V21166
ICV/QC:	V21260 V21242 V21262 V21226
Purge Volume:	5ml V21261 V21207 V21263 V21264

DATA FILE	SAMPLE ID, DIL.	Vial #	MATRIX	ALS POS.	SAMPLE METHOD	MANUALLY INTEGRATED PEAKS RATIONALE, PEAK #	PH	CI ?	RR	COMMENTS
J0981912	BLK	N/A	W	1	8260		N/A	N/A		✓
J 13	BFB			1						Auto Passed
J 14	CC 5529-5			1		SP(8) PII(107) OP(37)				20ul→50ml
J 15	ICV 5529-5			1		SP(8) PII(107) OP(37)				~~1.5~~ 2.5ul→40ml OP 1-03-17
J 16	BS			2		SP(8) PII(107) OP(37)				12 ul→40ml ✓
J 17	MB			3						ND
J 18	BS			1						12 ul→40ml
J 19	FA39891-17	3		1				N		ND
J 20	~~FA39~~ FA40012-1	1		2						✓
J 21	-2	1		3		PII(30)				✓
J 22	FA39907-1 MA	2		4						✓
J 23	-2 MA	2		5						✓
J 24	-3 MA	1		6						ND
J 25	-4 MA	1		7						ND
J 26	-5 MA	1		8						✓
J 27	-6 MA	1		9						✓
J 28	-7 MA	2		10						✓
J 29	-8 MA	2		11						✓
J 30	-9 MA	2		12						✓
J 31	-10 MA	2		13						✓
J 32	-11 MA	2		14						✓
J 33	-12 MA	1		15						ND
J 34	-13 MA	1		16						ND
J 35	-14 MA	1		17						ND
J 36	7 -16 MA	2		18						✓ 1,4 Dioxane ↑
J 37	FA39942-16 ~~Sox~~ MA	7		19		~~Int→Sod.~~ DP 01-03-17				Sur-9 mp xylene ↑
J 38	FA39942-16 ~~17~~ MA, Sox	7		20		Int→Sod				✓

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Matrix: Designate "W" for Water, "S" for Soil, "O" for Oil, "Liq" for Non-aqueous Liquid, and "TCLP" or "SPLP" for Leachate

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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_i_log.xls ME 06/16

SGS ACCUTEST-ORLANDO

DATE:	01-03-17 DP 01-03-17
COLUMN TYPE:	RTx VMS1
DETECTOR:	5973 MSD
INSTRUMENT:	MSVOA6-J
PURGE PRESSURE:	10-1psi
ANALYST:	DP

MS VOA6-J ANALYSIS LOG

METHODS:*	8260
METHOD FILE:	MSJ123016.m
CALIB. DATE:	12-30-16
EM VOLTAGE:	1653V
BFB RESPONSE:	14100096
RUN ID:	VJ5530/5531

STANDARDS

BFB:	V21166
ICAL/CCV:	V21257 V21241 V21214 V21221 V21223 V21213 V21168 V21
ISTD/SURR:	V21166
ICV/QC:	V21260 V21242 V21262 · V21224
Purge Volume:	5 ml V21261 V21207 V21263 V21264

DATA FILE	SAMPLE ID, DIL.	Vial #	MATRIX	ALS POS.	SAMPLE METHOD	MANUALLY INTEGRATED PEAKS RATIONALE, PEAK #	PH	CI ?	RR	COMMENTS
J 39	FA39907-16MS MA	3	H2O	21	8260	SP(8) OP(37) PII(107)	1	N		12 5ml-40ml
J 40	-16MSD MA	3		21		SP(8) PII(107)	1			
J 41	~~FA3~~ FA40012-1MS	2		22		SP(8) PII(109)	1			
J 42	-1MSD	2		22		SP(8) PII(107)	1			
J 43	ECL SS29-S	-		23		SP(8) OP(37) PII(109)	-	-		20ml-25ml

01-03-17 DP

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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 ME 06/16

SGS ACCUTEST FA39742

SGS ACCUTEST-ORLANDO

DATE:	01-03-17
COLUMN TYPE:	RTX-UMS
DETECTOR:	5973 MSD
INSTRUMENT:	MSVOA6-J
PURGE PRESSURE:	10 psi
ANALYST:	DP

1-12pH Lot 200814
0-3pH Lot 230315

MS VOA6-J ANALYSIS LOG

METHODS:*	8260
METHOD FILE:	MSJ123016.m
CALIB. DATE:	12-30-16
EM VOLTAGE:	1653V
BFB RESPONSE:	1460096
RUN ID:	VJ5530/5531

STANDARDS

BFB:	V21166
ICAL/CCV:	V21257 V21241 V21214 V21221 V21223 V21213 V21167 V21168
ISTD/SURR:	V21166
ICV/QC:	V21260 V21242 V21262 V21226
Purge Volume:	Soil V21261 V21207 V21263 V21264

DATA FILE	SAMPLE ID, DIL.	Vial #	MATRIX	ALS POS.	SAMPLE METHOD	MANUALLY INTEGRATED PEAKS RATIONALE, PEAK #	PH	CI ?	RR	COMMENTS
J0981912	BIK	N/A	H2O	1	8260		N/A	N/A		✓
J 13	BFB			1						Auto Passed
J 14	CC 5529-5			1		SP(8) PII(107) OP(37)				20ul→50ml
J 15	ICV 5529-5			1		SP(8) PII(107) OP(37)				~~12ul~~ 40ml→40ml OP 1-03-17
J 16	BS			2		SP(8) PII(107) OP(37)				12 ul→40ml ✓
J 17	MB			3						ND
J 18	BS			1						12 ul→40ml
J 19	FA39891-17	3		1				N		ND
J 20	~~FA39~~ FA40012-1	1		2						✓
J 21	-2	1		3		PII(30)				✓
J 22	FA39907-1 MA	2		4						✓
J 23	-2 MA	2		5						✓
J 24	-3 MA	1		6						ND
J 25	-4 MA	1		7						ND
J 26	-5 MA	1		8						✓
J 27	-6 MA	1		9						✓
J 28	-7 MA	2		10						✓
J 29	-8 MA	2		11						✓
J 30	-9 MA	2		12						✓
J 31	-10 MA	2		13						✓
J 32	-11 MA	2		14						✓
J 33	-12 MA	1		15						ND
J 34	-13 MA	1		16						ND
J 35	-14 MA	1		17						ND
J 36	-16 MA	2		18						✓ 1,4 Dioxane ↑
J 37	FA39942-16 MA	7		19		~~Int→Scd~~ DP 01-03-17				Surr-9 m,p xylene ↑
J 38	FA39942-16-17 MA,Sox	7		20		Int→Scd				✓

* For NELAC purposes, Method 8260 includes analytes by SOP MS005

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: FCB

msvoa6_j_log.xls ME 06/16

SGS ACCUTEST-ORLANDO

DATE:	01-03-17 DP
COLUMN TYPE:	RTx VMS1
DETECTOR:	5973 MSD
INSTRUMENT:	MSVOA6-J
PURGE PRESSURE:	10-1psi
ANALYST:	DP

MS VOA6-J ANALYSIS LOG

METHODS:*	8260
METHOD FILE:	MSJ123016.m
CALIB. DATE:	12-30-16
EM VOLTAGE:	1653V
BFB RESPONSE:	14110096
RUN ID:	VJ5530/5531

STANDARDS

BFB:	V21166
ICAL/CCV:	V21257 V21241 V21214 V21221 V21223 V21213 V21168 V24
ISTD/SURR:	V21166
ICV/QC:	V21260 V21262 V21262 · V21224
Purge Volume:	5ml V21261 V21207 V21263 V21264

DATA FILE	SAMPLE ID, DIL.	Vial #	MATRIX	ALS POS.	SAMPLE METHOD	MANUALLY INTEGRATED PEAKS RATIONALE, PEAK #	PH	CI ?	RR	COMMENTS
J 39	FA39907-16MS mA	3	H2O	21	8260	SP(8) OP(37) PII(107)	1	N		12 5ml→240ml ✓
J 40	-16MSD mA	3		21		SP(8) PII(107)	1			
J 41	~~FAS~~ FA40012-1MS	2		22		SP(8) PII(107)	1			
J 42	-1MSD	2		22		SP(8) PII(107)	1			
J 43	ECC5529-S	–		23		SP(8) OP(37) PII(109)	–	–		20ml→5ml
J										
J										
J										
J										
J										
J										
J										
J										
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J										
J										
J										

01-03-17 DP

* For NELAC purposes, Method 8260 includes analytes by SOP MS005

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 ME 06/16

SGS ACCUTEST-ORLANDO

DATE:	01-04-17
COLUMN TYPE:	RTX-VMS
DETECTOR:	5973 MSD
INSTRUMENT:	MSVOA6-J
PURGE PRESSURE:	10.1psi
ANALYST:	DP

1-12 pH
Lot 200814
0-3 pH
Lot 230315

MS VOA6-J ANALYSIS LOG

METHODS:*	8260
METHOD FILE:	MSJ123016.m
CALIB. DATE:	12-30-16
EM VOLTAGE:	1635 V
BFB RESPONSE:	1265 2.69
RUN ID:	VJ 5532

STANDARDS

BFB:	V21166
ICAL/CCV:	V21257 V21266 V21221 V21223 V21268 V21213 V21167 V21168
ISTD/SURR:	V21166
ICV/QC:	V21260 V21242 V21256 V21262 V21180
Purge Volume:	50ml V21261 V21207 V21264 V21263

DATA FILE	SAMPLE ID, DIL.	Vial #	MATRIX	ALS POS.	SAMPLE METHOD	MANUALLY INTEGRATED PEAKS RATIONALE, PEAK #	PH	CI ?	RR	COMMENTS
J0981944	Blk	N/A	H_2O	1	8260		N/A	N/A		✓
J 45	BFB			1						Auto Passed
J 46	CCS529-5			1						20ul→50ml
J 47	BS			2						12.5ul→40ml
J 48	MB			3						ND
J 49	DS			1						12.5ul→40ml
J 50	FA39742-17 MA	2		1				N		✓
J 51	FA39907-15 MA	2		2						ND
J 52	-17 MA	1		3						ND
J 53	FA39942-1 MA	1		4						✓
J 54	-2 MA	1		5						ND
J 55	-3 MA	1		6						✓
J 56	-4 MA	1		7						✓ 1,4-Dioxane
J 57	-5 MA	1		8						✓
J 58	-6 MA	1		9						ND
J 59	-7 MA	1		10						ND
J 60	-8 MA	1		11						ND
J 61	-9 MA 25x	1		12		0.25 ml→5ml DP 01-04-16				✓
J 62	-10 MA	1		13						ND
J 63	-11 MA	1		14						✓
J 64	-12 MA	1		15						ND
J 65	-11MA MS	2		16		SP(8) OP(37) PII(107)				12.5ul→40ml ✓
J 66	-11MSD, MA	2		16		SP(8) OP(37) PII(107)				✓
J 67	ECC5529-5	–		17		SP(8) OP(37) PII(107)	–	–		20ul→50ml. ✓
J						~~01-04-16 DP~~				
J										
J										

* For NELAC purposes, Method 8260 includes analytes by SOP MS005

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 initiated 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: TS

msvoa6_j_log.xls ME 06/16