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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: FA34891

Sampling Dates: 06/16/16 - 06/20/16

Report to:

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Total number of pages in report: 399

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Norm Farmer
Technical Director

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SGS Accutest

Sample Summary

Anderson, Mulholland & Associates

Job No: FA34891

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

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
FA34891-1	06/16/16	15:45	NR	06/21/16	AQ	Ground Water	MW-3
FA34891-2	06/17/16	11:10	NR	06/21/16	AQ	Ground Water	MW-5
FA34891-3	06/17/16	12:43	NR	06/21/16	AQ	Ground Water	MW-13
FA34891-4	06/17/16	15:05	NR	06/21/16	AQ	Ground Water	BR-4
FA34891-5	06/17/16	16:02	NR	06/21/16	AQ	Ground Water	MW-16
FA34891-6	06/17/16	18:34	NR	06/21/16	AQ	Ground Water	MW-9
FA34891-7	06/20/16	12:35	NR	06/21/16	AQ	Ground Water	MW-23S
FA34891-8	06/20/16	15:47	NR	06/21/16	AQ	Ground Water	MW-21S
FA34891-9	06/20/16	15:47	NR	06/21/16	AQ	Trip Blank Water	TB062016

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: Anderson, Mulholland & Associates **Job** FA34891

Site: BMSMC, Building 5 Area, Humacao, PR **Report Date** 7/5/2016 2:38:18 PM

8 Samples and 1 Trip Blank were collected on/between 06/16/2016 and 06/20/2016 and were received at SGS Accutest Southeast (SASE) on 06/21/2016 properly preserved, at 2.8 Deg. C and intact. These Samples received an SASE job number of FA34891. 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:** VJ5358

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA34891-2MS, FA34891-2MSD were used as the QC samples indicated.

Matrix Spike Recovery(s) for 1,1,2,2-Tetrachloroethane, Bromoform, Dibromochloromethane are outside control limits. Probable cause is due to matrix interference. For method performance in a clean matrix, refer to Blank Spike.

Matrix Spike Duplicate Recovery(s) for 1,1,2,2-Tetrachloroethane, Benzene, Bromoform are outside control limits. Probable cause is due to matrix interference. For method performance in a clean matrix, refer to Blank Spike.

RPD(s) for MSD for 1,1-Dichloroethane, Benzene are outside control limits for sample FA34891-2MSD. Probable cause is due to sample non-homogeneity.

Sample(s) FA34891-6, FA34891-7 have surrogates outside control limits. Probable cause is due to matrix interference.

FA34891-6 for Toluene-D8: Outside control limits; however, sample is ND.

FA34891-7 for Toluene-D8: Outside control limits; however, sample is ND.

FA34891-1 for Dichlorodifluoromethane: Associated CCV outside control limits.

FA34891-3 for Dichlorodifluoromethane: Associated CCV outside control limits.

FA34891-4 for Dichlorodifluoromethane: Associated CCV outside control limits.

FA34891-5 for Dichlorodifluoromethane: Associated CCV outside control limits.

FA34891-6 for Dichlorodifluoromethane: Associated CCV outside control limits.

FA34891-7 for Dichlorodifluoromethane: Associated CCV outside control limits.

Matrix: AQ **Batch ID:** VJ5360

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 Tetrachloroethylene, trans-1,2-Dichloroethylene, trans-1,3-Dichloropropene are outside control limits. Recoveries are biased high. Analytes are non-detect in associated samples; therefore data is not adversely affected.

VJ5360-BS: No sample available for MS/MSD.

FA34891-2 for Tetrachloroethylene: Associated BS recovery outside control limits.

FA34891-2 for trans-1,2-Dichloroethylene: Associated BS recovery outside control limits.

FA34891-2 for trans-1,3-Dichloropropene: Associated BS recovery outside control limits.

FA34891-8 for Tetrachloroethylene: Associated BS recovery outside control limits.

FA34891-8 for trans-1,2-Dichloroethylene: Associated BS recovery outside control limits.

FA34891-8 for trans-1,3-Dichloropropene: Associated BS recovery outside control limits.

FA34891-9 for Tetrachloroethylene: Associated BS recovery outside control limits.

FA34891-9 for trans-1,2-Dichloroethylene: Associated BS recovery outside control limits.

FA34891-9 for trans-1,3-Dichloropropene: Associated BS recovery outside control limits.

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: July 5, 2016

Lovelie Metzgar, QA Officer (signature on file)

Manual Integration Summary

Lab Sample ID	Analysis Type	File ID	Manual Integrations
FA34891-2MS	MSVOA	J0977739.D	Ethyl Alcohol
FA34891-2MSD	MSVOA	J0977740.D	Carbon Tetrachloride, Ethyl Alcohol
FA34891-5	MSVOA	J0977733.D	Dichlorodifluoromethane
VJ5340-IC5340	MSVOA	J0977352.D	1,4-Dichlorobenzene, Acetone, Acetonitrile, Acrolein, Dichlorodifluoromethane, Ethyl Ether, Isobutyl Alcohol, Methyl Methacrylate, Trichlorofluoromethane
VJ5340-IC5340	MSVOA	J0977353.D	1,4-Dioxane, Dichlorodifluoromethane, Ethyl Alcohol
VJ5340-IC5340	MSVOA	J0977354.D	Carbon Tetrachloride, Ethyl Alcohol
VJ5340-IC5340	MSVOA	J0977355.D	Ethyl Alcohol
VJ5340-IC5340	MSVOA	J0977357.D	Carbon Tetrachloride, Ethyl Alcohol
VJ5340-IC5340	MSVOA	J0977358.D	Carbon Tetrachloride, Ethyl Alcohol
VJ5340-ICC5340	MSVOA	J0977356.D	Acrolein, Ethyl Alcohol
VJ5340-ICV5340	MSVOA	J0977360.D	Ethyl Alcohol
VJ5357-CC5340	MSVOA	J0977716.D	Carbon Tetrachloride, Ethyl Alcohol
VJ5358-BS	MSVOA	J0977717.D	Ethyl Alcohol
VJ5359-IC5359	MSVOA	J0977747.D	Ethyl Alcohol, Tert-Butyl Alcohol
VJ5359-IC5359	MSVOA	J0977748.D	Ethyl Alcohol
VJ5359-IC5359	MSVOA	J0977749.D	Carbon Tetrachloride, Ethyl Alcohol
VJ5359-IC5359	MSVOA	J0977751.D	Ethyl Alcohol, Tert-Amyl Alcohol
VJ5359-IC5359	MSVOA	J0977752.D	Carbon Tetrachloride, Ethyl Alcohol
VJ5359-IC5359	MSVOA	J0977754.D	1,4-Dichlorobenzene, 1,4-Dioxane, Acetone, Acetonitrile, Acrylonitrile, cis-1,2-Dichloroethylene, Dichlorodifluoromethane, Ethyl Ether, Isobutyl Alcohol, Methyl Acetate, Methyl Bromide, Methyl Tert Butyl Ether, Tert-Amyl Alcohol, Tert-Butyl Alcohol, Trichlorofluoromethane,
VJ5359-ICC5359	MSVOA	J0977750.D	Carbon Tetrachloride, Ethyl Alcohol, Tert-Amyl Alcohol, Trichlorofluoromethane
VJ5359-ICV5359	MSVOA	J0977755.D	Carbon Tetrachloride, Ethyl Alcohol
VJ5360-BS	MSVOA	J0977756.D	Carbon Tetrachloride, Ethyl Alcohol

22 Manual Integrations were found for FA34891

Summary of Hits

Job Number: FA34891
Account: Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, Humacao, PR
Collected: 06/16/16 thru 06/20/16

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
FA34891-1	**MW-3**					
Carbon Disulfide		0.52 J	2.0	0.23	ug/l	SW846 8260C
Chlorobenzene		0.37 J	1.0	0.20	ug/l	SW846 8260C
Cyclohexane		2.3	1.0	0.26	ug/l	SW846 8260C
Isopropylbenzene		10.0	1.0	0.33	ug/l	SW846 8260C
Methylcyclohexane		1.8	1.0	0.23	ug/l	SW846 8260C
Toluene		0.33 J	1.0	0.20	ug/l	SW846 8260C
1,2,4-Trimethylbenzene		0.30 J	1.0	0.20	ug/l	SW846 8260C
o-Xylene		0.58 J	1.0	0.26	ug/l	SW846 8260C
FA34891-2	**MW-5**					
Benzene		3.3	1.0	0.20	ug/l	SW846 8260C
Ethylbenzene		76.7	1.0	0.25	ug/l	SW846 8260C
Isopropylbenzene		14.2	1.0	0.33	ug/l	SW846 8260C
Methyl Tert Butyl Ether		6.1	1.0	0.20	ug/l	SW846 8260C
Tert-Butyl Alcohol		290	20	9.1	ug/l	SW846 8260C
Toluene		0.46 J	1.0	0.20	ug/l	SW846 8260C
1,2,4-Trimethylbenzene		0.28 J	1.0	0.20	ug/l	SW846 8260C
m,p-Xylene		273	10	1.5	ug/l	SW846 8260C
FA34891-3	**MW-13**					
1,2-Dichlorobenzene		1.0	1.0	0.27	ug/l	SW846 8260C
Freon 113		10.4	1.0	0.32	ug/l	SW846 8260C
FA34891-4	**BR-4**					
1,2,4-Trimethylbenzene		0.30 J	1.0	0.20	ug/l	SW846 8260C
FA34891-5	**MW-16**					
1,2-Dichlorobenzene		8.0	1.0	0.27	ug/l	SW846 8260C
1,4-Dichlorobenzene		1.6	1.0	0.39	ug/l	SW846 8260C
Freon 113		70.2	1.0	0.32	ug/l	SW846 8260C

FA34891-6 **MW-9**

No hits reported in this sample.

FA34891-7 **MW-23S**

No hits reported in this sample.

Summary of Hits

Job Number: FA34891
Account: Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, Humacao, PR
Collected: 06/16/16 thru 06/20/16

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
FA34891-8	**MW-21S**					
1,2-Dichlorobenzene		0.82 J	1.0	0.27	ug/l	SW846 8260C
1,1-Dichloroethylene		0.84 J	1.0	0.22	ug/l	SW846 8260C
Freon 113		4.4	1.0	0.32	ug/l	SW846 8260C
FA34891-9	**TB062016**					

No hits reported in this sample.

Sample Results

Report of Analysis

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Report of Analysis

Client Sample ID:	MW-3		
Lab Sample ID:	FA34891-1	**Date Sampled:**	06/16/16
Matrix:	AQ - Ground Water	**Date Received:**	06/21/16
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	J0977725.D	1	06/30/16	DP	n/a	n/a	VJ5358
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	0.52	2.0	0.23	ug/l	J
56-23-5	Carbon Tetrachloride	ND	1.0	0.30	ug/l	
108-90-7	Chlorobenzene	0.37	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	2.3	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	10.0	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-3		
Lab Sample ID:	FA34891-1	**Date Sampled:**	06/16/16
Matrix:	AQ - Ground Water	**Date Received:**	06/21/16
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	1.8	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	0.30	1.0	0.20	ug/l	J
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	0.58	1.0	0.26	ug/l	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	94%		83-118%
17060-07-0	1,2-Dichloroethane-D4	86%		79-125%
2037-26-5	Toluene-D8	104%		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

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Report of Analysis

Client Sample ID:	MW-5		
Lab Sample ID:	FA34891-2	**Date Sampled:**	06/17/16
Matrix:	AQ - Ground Water	**Date Received:**	06/21/16
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	J0977759.D	1	07/01/16	DP	n/a	n/a	VJ5360
Run #2	J0977730.D	5	06/30/16	DP	n/a	n/a	VJ5358

	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	3.3	1.0	0.20	ug/l	
100-44-7	Benzyl Chloride	ND	2.0	0.44	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.42	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.24	ug/l	
75-25-2	Bromoform	ND	1.0	0.46	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.6	ug/l	
75-15-0	Carbon Disulfide	ND	2.0	0.23	ug/l	
56-23-5	Carbon Tetrachloride	ND	1.0	0.30	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	2.0	0.63	ug/l	
67-66-3	Chloroform	ND	1.0	0.30	ug/l	
110-82-7	Cyclohexane	ND	1.0	0.26	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.26	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	0.81	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.33	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.50	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.27	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.24	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.39	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.26	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.28	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.22	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.31	ug/l	
156-60-5	trans-1,2-Dichloroethylene [a]	ND	1.0	0.33	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.34	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.26	ug/l	
10061-02-6	trans-1,3-Dichloropropene [a]	ND	1.0	0.25	ug/l	
100-41-4	Ethylbenzene	76.7	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	14.2	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-5		
Lab Sample ID:	FA34891-2	**Date Sampled:**	06/17/16
Matrix:	AQ - Ground Water	**Date Received:**	06/21/16
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	6.1	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	290	20	9.1	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.33	ug/l	
127-18-4	Tetrachloroethylene [a]	ND	1.0	0.30	ug/l	
109-99-9	Tetrahydrofuran	ND	5.0	1.4	ug/l	
108-88-3	Toluene	0.46	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	0.28	1.0	0.20	ug/l	J
75-01-4	Vinyl Chloride	ND	1.0	0.31	ug/l	
	m,p-Xylene	273 [b]	10	1.5	ug/l	
95-47-6	o-Xylene	ND [b]	5.0	1.3	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	95%	95%	83-118%
17060-07-0	1,2-Dichloroethane-D4	92%	84%	79-125%
2037-26-5	Toluene-D8	103%	95%	85-112%
460-00-4	4-Bromofluorobenzene	103%	97%	83-118%

(a) Associated BS recovery outside control limits.
(b) Result is from Run# 2

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:	FA34891-3	**Date Sampled:**	06/17/16
Matrix:	AQ - Ground Water	**Date Received:**	06/21/16
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	J0977731.D	1	06/30/16	DP	n/a	n/a	VJ5358
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	1.0	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	10.4	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-13		
Lab Sample ID:	FA34891-3	**Date Sampled:**	06/17/16
Matrix:	AQ - Ground Water	**Date Received:**	06/21/16
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	BMSMC, Building 5 Area, Humacao, PR		

VOA TCL List (SOM02.0)

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

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%		83-118%
17060-07-0	1,2-Dichloroethane-D4	90%		79-125%
2037-26-5	Toluene-D8	98%		85-112%
460-00-4	4-Bromofluorobenzene	107%		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:	BR-4		
Lab Sample ID:	FA34891-4	**Date Sampled:**	06/17/16
Matrix:	AQ - Ground Water	**Date Received:**	06/21/16
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	J0977732.D	1	06/30/16	DP	n/a	n/a	VJ5358
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 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:	BR-4		
Lab Sample ID:	FA34891-4	**Date Sampled:**	06/17/16
Matrix:	AQ - Ground Water	**Date Received:**	06/21/16
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	0.30	1.0	0.20	ug/l	J
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	96%		83-118%
17060-07-0	1,2-Dichloroethane-D4	89%		79-125%
2037-26-5	Toluene-D8	98%		85-112%
460-00-4	4-Bromofluorobenzene	108%		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:	MW-16		
Lab Sample ID:	FA34891-5	**Date Sampled:**	06/17/16
Matrix:	AQ - Ground Water	**Date Received:**	06/21/16
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	J0977733.D	1	06/30/16	DP	n/a	n/a	VJ5358
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	8.0	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	1.6	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	70.2	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-16		
Lab Sample ID:	FA34891-5	**Date Sampled:**	06/17/16
Matrix:	AQ - Ground Water	**Date Received:**	06/21/16
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	96%		83-118%
17060-07-0	1,2-Dichloroethane-D4	81%		79-125%
2037-26-5	Toluene-D8	98%		85-112%
460-00-4	4-Bromofluorobenzene	109%		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:	MW-9		
Lab Sample ID:	FA34891-6	**Date Sampled:**	06/17/16
Matrix:	AQ - Ground Water	**Date Received:**	06/21/16
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	J0977734.D	1	06/30/16	DP	n/a	n/a	VJ5358
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-9		
Lab Sample ID:	FA34891-6	**Date Sampled:**	06/17/16
Matrix:	AQ - Ground Water	**Date Received:**	06/21/16
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	113%		83-118%
17060-07-0	1,2-Dichloroethane-D4	92%		79-125%
2037-26-5	Toluene-D8	120% [b]		85-112%
460-00-4	4-Bromofluorobenzene	110%		83-118%

(a) Associated CCV outside control limits.
(b) Outside control limits; however, sample is ND.

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-23S		
Lab Sample ID:	FA34891-7	**Date Sampled:**	06/20/16
Matrix:	AQ - Ground Water	**Date Received:**	06/21/16
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	J0977735.D	1	06/30/16	DP	n/a	n/a	VJ5358
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 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-23S		
Lab Sample ID:	FA34891-7	**Date Sampled:**	06/20/16
Matrix:	AQ - Ground Water	**Date Received:**	06/21/16
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	90%		83-118%
17060-07-0	1,2-Dichloroethane-D4	89%		79-125%
2037-26-5	Toluene-D8	116% [b]		85-112%
460-00-4	4-Bromofluorobenzene	104%		83-118%

(a) Associated CCV outside control limits.
(b) Outside control limits; however, sample is ND.

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-21S		
Lab Sample ID:	FA34891-8	**Date Sampled:**	06/20/16
Matrix:	AQ - Ground Water	**Date Received:**	06/21/16
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	J0977760.D	1	07/01/16	DP	n/a	n/a	VJ5360
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	0.82	1.0	0.27	ug/l	J
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	0.84	1.0	0.22	ug/l	J
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.31	ug/l	
156-60-5	trans-1,2-Dichloroethylene [a]	ND	1.0	0.33	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.34	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.26	ug/l	
10061-02-6	trans-1,3-Dichloropropene [a]	ND	1.0	0.25	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.25	ug/l	
76-13-1	Freon 113	4.4	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-21S		
Lab Sample ID:	FA34891-8	**Date Sampled:**	06/20/16
Matrix:	AQ - Ground Water	**Date Received:**	06/21/16
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 [a]	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	95%		79-125%
2037-26-5	Toluene-D8	105%		85-112%
460-00-4	4-Bromofluorobenzene	103%		83-118%

(a) Associated BS recovery outside control limits.

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

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

SGS Accutest

Report of Analysis

Client Sample ID:	TB062016		
Lab Sample ID:	FA34891-9	**Date Sampled:**	06/20/16
Matrix:	AQ - Trip Blank Water	**Date Received:**	06/21/16
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	J0977761.D	1	07/01/16	DP	n/a	n/a	VJ5360
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List (SOM02.0)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	25	10	ug/l	
71-43-2	Benzene	ND	1.0	0.20	ug/l	
100-44-7	Benzyl Chloride	ND	2.0	0.44	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.42	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.24	ug/l	
75-25-2	Bromoform	ND	1.0	0.46	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.6	ug/l	
75-15-0	Carbon Disulfide	ND	2.0	0.23	ug/l	
56-23-5	Carbon Tetrachloride	ND	1.0	0.30	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	2.0	0.63	ug/l	
67-66-3	Chloroform	ND	1.0	0.30	ug/l	
110-82-7	Cyclohexane	ND	1.0	0.26	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.26	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	0.81	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.33	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.50	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.27	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.24	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.39	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.26	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.28	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.22	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.31	ug/l	
156-60-5	trans-1,2-Dichloroethylene [a]	ND	1.0	0.33	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.34	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.26	ug/l	
10061-02-6	trans-1,3-Dichloropropene [a]	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:	TB062016		
Lab Sample ID:	FA34891-9	**Date Sampled:**	06/20/16
Matrix:	AQ - Trip Blank Water	**Date Received:**	06/21/16
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 [a]	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	92%		79-125%
2037-26-5	Toluene-D8	106%		85-112%
460-00-4	4-Bromofluorobenzene	105%		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

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

SGS ACCUTEST - FL

CHAIN OF CUSTODY

SGS Accutest ~~Dayton~~ Florida
~~2235 Route 130, Dayton, NJ 08810~~ 1405 Vineland
TEL. 732-329-0200 FAX: 732-329-3499/3480
www.accutest.com Orlando FL

FA34891

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80996056220 7

Bottle Order Control #

SGS Accutest Quote #

SGS Accutest Job # Get from NJ

Client / Reporting Information

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

Project Information

Project Name: BMS 2Q 2016 Groundwater
Street:
City / State: Humacao PR
Project #:
Client Purchase Order #:
Project Manager:

Billing Information (if different from Report to)

Company Name:
Street Address:
City / State / Zip:
Attention:

Requested Analysis (see TEST CODE sheet)

VOC - Method 8260C

Matrix Codes

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

SGS Accutest Sample #	Field ID / Point of Collection	MEOH/DI Vial #	Collection Date	Collection Time	Sampled by	Matrix	# of bottles	HCl	NaOH	HNO3	H2SO4	NONE	DI Water	MEOH	ENCORE	VOC - Method 8260C	LAB USE ONLY
1	MW-3		6/16/16	1545	NR	GW	3	3								X	
2	MW-5		6/17/16	1110	NR	GW	3	3								X	
3	MW-13		6/17/16	1243	NR	GW	3	3								X	
4	BR-4		6/17/16	1505	NR	GW	3	3								X	
5	MW-16		6/17/16	1602	NR	GW	3	3								X	
6	MW-9		6/17/16	1834	NR	GW	3	3								X	
7	MW-23S		6/20/16	1235	NR	GW	3	3								X	
8	MW-21S		6/20/16	1547	NR	GW	3	3								X	
9	TB 062016		6/20/16	1547		TB	2	2								X	

Turn Around Time (Business days)

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

Approved By (SGS Accutest PM): / Date:

Emergency & Rush T/A data available VIA Lablink

Data Deliverable Information

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

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

Comments / Special Instructions

Add to Report: Tetrahydrofuran, P-Isopropyl toluene, Benzyl Chloride, 1-2-4 Trimethyl benzene, Tetra Amyl chloride

Sample inventory is verified upon receipt in the Laboratory

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

	Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
1	[signature]	6/20/16 1500	Fed Ex	Fx		[signature] 6/21/16 900
2	Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
3						
4	Relinquished by:	Date Time:	Received By:	Custody Seal # 447	Preserved where applicable	On Ice (1) Cooler Temp. 2.8
5				[ ] Intact [ ] Not intact	[ ]	

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FA34891: Chain of Custody
Page 1 of 3

ACCUTEST LABORATORIES SAMPLE RECEIPT CONFIRMATION

ACCUTEST'S JOB NUMBER: FA34891 CLIENT: Anderson Mulholland PROJECT: BMS 2Q 2016

DATE/TIME RECEIVED: 6/21/16 900 {MM/DD/YY 24:00} NUMBER OF COOLERS RECEIVED: 1

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

AIRBILL NUMBERS: 8099 6056 2207

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

TEMPERATURE INFORMATION

- [ ] IR THERM ID 1 CORR. FACTOR +0.0
- [ ] OBSERVED TEMPS: 2.8
- [ ] CORRECTED TEMPS: 2.8 (USED FOR LIMS)

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

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}

MISC. INFORMATION

NUMBER OF ENCORES ? 25-GRAM 5-GRAM

NUMBER OF 5035 FIELD KITS ?

NUMBER OF LAB FILTERED METALS ?

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

SUMMARY OF COMMENTS:

TECHNICIAN SIGNATURE/DATE 6/21/16 REVIEWER SIGNATURE/DATE 6/21/16

NF 11/15 RECEIPTLOG040416.xls

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FedEx Express International Air Waybill

Origin Copy

1 From

Date 06 2016 Sender's FedEx Account Number

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

Company Anderson Mulholland Assoc. Inc.

Address BMS in care of

Address State Rd #3, Km 77.5

City Humacao State Province PR

Country USA ZIP Postal Code

2 To

Recipient's Name Sample Receiving Phone 407-425-6200

Company SGS Accutest Florida

Address 4405 Vineland Rd Dept/Floor

Address

City Orlando State Province FL

Country USA ZIP Postal Code 32811

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

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

Total Packages (Shipper's Load and Count/SLAC) 1 Total Weight 18 lbs. ☒ kg ☐ DIM 13 x 16 x ☒ in. ☐ cm

Commodity Description	Harmonized Code	Country of Manufacture	Value for Customs
Groundwater samples		USA	0

Has EEI been filed in AES? For U.S. Export Only: Check One
☐ No EEI required, value $2,500 or less per Sch. B Number, no license required (NLR), not subject to ITAR.
☐ No EEI required, enter exemption number:
☐ Yes – Enter AES proof of filing citation:
If other than NLR, enter License Exception:

Total Declared Value for Carriage

Total Value for Customs (Specify Currency) $0

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

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

1 ☒ FedEx Intl. Priority 6 ☐ FedEx Intl. First (Available to select locations.)
☐ 3 ☐ FedEx Intl. Economy (FedEx Envelope and FedEx Pak rate not available.)

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

6 ☐ FedEx Envelope 2 ☐ FedEx Pak 3 ☐ FedEx Box 4 ☐ FedEx Tube
1 ☒ Other PW ☐ FedEx 10kg Box* PX ☐ FedEx 25kg Box*

6 Special Handling
1 ☐ HOLD at FedEx Location 3 ☐ SATURDAY Delivery (Available to select locations for FedEx Intl. Priority only.)

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

Bill transportation charges to: Enter FedEx Acct. No. or Credit Card No. below.
1 ☐ Sender (Acct. No. in Section 1 will be billed.) 2 ☐ Recipient 3 ☒ Third Party 4 ☐ Credit Card 5 ☐ Cash/Check/Cheque
FedEx Acct. No. 3620-6423-6 Total Transportation
Credit Card Exp. Date Specify Currency

Bill duties and taxes to: Enter FedEx Acct. No. below. ALL shipments may be subject to Customs charges, which FedEx does not estimate prior to clearance.
1 ☐ Sender (Acct. No. in Section 1 will be billed.) 2 ☐ Recipient 3 ☐ Third Party 5 ☐ Cash/Check/Cheque
FedEx Acct. No.

8 Your Internal Billing Reference First 24 characters will appear on invoice.
BMS 2Q GW

9 Required Signature
Use of this Air Waybill constitutes your agreement to the Conditions of Contract on the back of this Air Waybill, and you represent that this shipment does not require a U.S. State Department license or contain dangerous goods. Certain international treaties, including the Warsaw Convention, may apply to this shipment and limit our liability for damage, loss, or delay, as described in the Conditions of Contract. **WARNING:** These commodities, technology, or software were exported from the United States in accordance with Export Administration Regulations. Diversion contrary to U.S. law prohibited.
Sender's Signature:
This is not authorization to deliver this shipment without a recipient signature.
Received above shipment in good order and condition. We agree to pay all charges, including Customs duties and taxes as applicable, and we agree to the Conditions of Carriage as stated on the reverse side of the Recipient's Copy.
Recipient's Signature:

568

PART 150410 Rev. Date 11/08 ©1994–2008 FedEx PRINTED IN U.S.A. RRDA

FedEx Tracking Number 8099 6056 2207 0402 Form ID No.

Origin Station ID	Country Code/Destination Station ID	URSA Routing	Handling Units
NYYHC	XHTIXH	TIPA	Total Volume (cm)

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

Forms Attached: ☐ CI ☐ CO

Base Charges FedEx Emp. # 223721 Declared Val. Chrg. Audit Emp. # Other ODA/DPA 1605 Date 6-20-16 Time Del. Courier Emp. # Credit Card Auth. Date Time

RRDA 12/15

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FA34891: Chain of Custody
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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: FA34891
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, Humacao, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VJ5358-MB	J0977738.D	1	06/30/16	DP	n/a	n/a	VJ5358

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

FA34891-1, FA34891-2, FA34891-3, FA34891-4, FA34891-5, FA34891-6, FA34891-7

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: FA34891
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, Humacao, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VJ5358-MB	J0977738.D	1	06/30/16	DP	n/a	n/a	VJ5358

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

FA34891-1, FA34891-2, FA34891-3, FA34891-4, FA34891-5, FA34891-6, FA34891-7

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	92%	83-118%
17060-07-0	1,2-Dichloroethane-D4	90%	79-125%
2037-26-5	Toluene-D8	105%	85-112%
460-00-4	4-Bromofluorobenzene	102%	83-118%

Method Blank Summary

Job Number: FA34891
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, Humacao, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VJ5360-MB	J0977757.D	1	07/01/16	DP	n/a	n/a	VJ5360

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

FA34891-2, FA34891-8, FA34891-9

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

Method Blank Summary

Job Number: FA34891
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, Humacao, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VJ5360-MB	J0977757.D	1	07/01/16	DP	n/a	n/a	VJ5360

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

FA34891-2, FA34891-8, FA34891-9

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

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

Blank Spike Summary

Job Number: FA34891
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, Humacao, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VJ5358-BS	J0977717.D	1	06/30/16	DP	n/a	n/a	VJ5358

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

FA34891-1, FA34891-2, FA34891-3, FA34891-4, FA34891-5, FA34891-6, FA34891-7

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
67-64-1	Acetone	125	129	103	50-147
71-43-2	Benzene	25	28.8	115	81-122
100-44-7	Benzyl Chloride	25	22.6	90	54-122
74-97-5	Bromochloromethane	25	24.1	96	76-123
75-27-4	Bromodichloromethane	25	22.0	88	79-123
75-25-2	Bromoform	25	19.8	79	66-123
78-93-3	2-Butanone (MEK)	125	117	94	56-143
75-15-0	Carbon Disulfide	25	27.5	110	66-148
56-23-5	Carbon Tetrachloride	25	23.4	94	76-136
108-90-7	Chlorobenzene	25	28.9	116	82-124
75-00-3	Chloroethane	25	24.8	99	62-144
67-66-3	Chloroform	25	24.3	97	80-124
110-82-7	Cyclohexane	25	28.7	115	73-138
124-48-1	Dibromochloromethane	25	22.1	88	78-122
96-12-8	1,2-Dibromo-3-chloropropane	25	23.7	95	64-123
106-93-4	1,2-Dibromoethane	25	25.3	101	75-120
75-71-8	Dichlorodifluoromethane	25	16.1	64	42-167
95-50-1	1,2-Dichlorobenzene	25	28.6	114	82-124
541-73-1	1,3-Dichlorobenzene	25	29.6	118	84-125
106-46-7	1,4-Dichlorobenzene	25	28.1	112	78-120
75-34-3	1,1-Dichloroethane	25	27.9	112	81-122
107-06-2	1,2-Dichloroethane	25	19.5	78	75-125
75-35-4	1,1-Dichloroethylene	25	25.6	102	78-137
156-59-2	cis-1,2-Dichloroethylene	25	25.1	100	78-120
156-60-5	trans-1,2-Dichloroethylene	25	29.4	118	76-127
78-87-5	1,2-Dichloropropane	25	28.2	113	76-124
10061-01-5	cis-1,3-Dichloropropene	25	22.8	91	75-118
10061-02-6	trans-1,3-Dichloropropene	25	24.7	99	80-120
100-41-4	Ethylbenzene	25	27.7	111	81-121
76-13-1	Freon 113	25	24.4	98	72-134
591-78-6	2-Hexanone	125	121	97	61-129
98-82-8	Isopropylbenzene	25	28.2	113	83-132
99-87-6	p-Isopropyltoluene	25	29.2	117	79-130
79-20-9	Methyl Acetate	125	125	100	65-126
74-83-9	Methyl Bromide	25	23.3	93	59-143
74-87-3	Methyl Chloride	25	22.5	90	50-159

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA34891
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, Humacao, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VJ5358-BS	J0977717.D	1	06/30/16	DP	n/a	n/a	VJ5358

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

FA34891-1, FA34891-2, FA34891-3, FA34891-4, FA34891-5, FA34891-6, FA34891-7

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	27.0	108	69-135
108-10-1	4-Methyl-2-pentanone (MIBK)	125	122	98	66-122
1634-04-4	Methyl Tert Butyl Ether	25	19.2	77	72-117
100-42-5	Styrene	25	25.6	102	78-119
75-85-4	Tert-Amyl Alcohol	250	217	87	65-124
75-65-0	Tert-Butyl Alcohol	250	204	82	63-129
79-34-5	1,1,2,2-Tetrachloroethane	25	30.1	120	72-120
127-18-4	Tetrachloroethylene	25	25.1	100	76-135
109-99-9	Tetrahydrofuran	25	24.4	98	56-122
108-88-3	Toluene	25	28.7	115	80-120
87-61-6	1,2,3-Trichlorobenzene	25	24.0	96	68-131
120-82-1	1,2,4-Trichlorobenzene	25	21.8	87	73-129
71-55-6	1,1,1-Trichloroethane	25	22.5	90	75-130
79-00-5	1,1,2-Trichloroethane	25	27.5	110	76-119
79-01-6	Trichloroethylene	25	26.4	106	81-126
75-69-4	Trichlorofluoromethane	25	23.4	94	71-156
95-63-6	1,2,4-Trimethylbenzene	25	28.6	114	79-120
75-01-4	Vinyl Chloride	25	24.2	97	69-159
	m,p-Xylene	50	55.0	110	79-126
95-47-6	o-Xylene	25	26.1	104	80-127

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	95%	83-118%
17060-07-0	1,2-Dichloroethane-D4	82%	79-125%
2037-26-5	Toluene-D8	106%	85-112%
460-00-4	4-Bromofluorobenzene	107%	83-118%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA34891
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, Humacao, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VJ5360-BS [a]	J0977756.D	1	07/01/16	DP	n/a	n/a	VJ5360

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

FA34891-2, FA34891-8, FA34891-9

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
67-64-1	Acetone	125	134	107	50-147
71-43-2	Benzene	25	27.4	110	81-122
100-44-7	Benzyl Chloride	25	24.2	97	54-122
74-97-5	Bromochloromethane	25	25.7	103	76-123
75-27-4	Bromodichloromethane	25	30.5	122	79-123
75-25-2	Bromoform	25	27.8	111	66-123
78-93-3	2-Butanone (MEK)	125	127	102	56-143
75-15-0	Carbon Disulfide	25	28.5	114	66-148
56-23-5	Carbon Tetrachloride	25	30.0	120	76-136
108-90-7	Chlorobenzene	25	29.3	117	82-124
75-00-3	Chloroethane	25	34.4	138	62-144
67-66-3	Chloroform	25	28.0	112	80-124
110-82-7	Cyclohexane	25	29.6	118	73-138
124-48-1	Dibromochloromethane	25	27.4	110	78-122
96-12-8	1,2-Dibromo-3-chloropropane	25	27.6	110	64-123
106-93-4	1,2-Dibromoethane	25	27.5	110	75-120
75-71-8	Dichlorodifluoromethane	25	28.9	116	42-167
95-50-1	1,2-Dichlorobenzene	25	28.5	114	82-124
541-73-1	1,3-Dichlorobenzene	25	26.6	106	84-125
106-46-7	1,4-Dichlorobenzene	25	26.9	108	78-120
75-34-3	1,1-Dichloroethane	25	29.8	119	81-122
107-06-2	1,2-Dichloroethane	25	23.1	92	75-125
75-35-4	1,1-Dichloroethylene	25	33.0	132	78-137
156-59-2	cis-1,2-Dichloroethylene	25	24.8	99	78-120
156-60-5	trans-1,2-Dichloroethylene	25	33.7	135*	76-127
78-87-5	1,2-Dichloropropane	25	26.0	104	76-124
10061-01-5	cis-1,3-Dichloropropene	25	28.1	112	75-118
10061-02-6	trans-1,3-Dichloropropene	25	30.5	122*	80-120
100-41-4	Ethylbenzene	25	28.3	113	81-121
76-13-1	Freon 113	25	28.1	112	72-134
591-78-6	2-Hexanone	125	113	90	61-129
98-82-8	Isopropylbenzene	25	29.8	119	83-132
99-87-6	p-Isopropyltoluene	25	27.4	110	79-130
79-20-9	Methyl Acetate	125	140	112	65-126
74-83-9	Methyl Bromide	25	32.6	130	59-143
74-87-3	Methyl Chloride	25	33.0	132	50-159

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA34891
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, Humacao, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VJ5360-BS [a]	J0977756.D	1	07/01/16	DP	n/a	n/a	VJ5360

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

FA34891-2, FA34891-8, FA34891-9

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
108-87-2	Methylcyclohexane	25	26.3	105	76-129
75-09-2	Methylene Chloride	25	27.7	111	69-135
108-10-1	4-Methyl-2-pentanone (MIBK)	125	140	112	66-122
1634-04-4	Methyl Tert Butyl Ether	25	26.5	106	72-117
100-42-5	Styrene	25	28.2	113	78-119
75-85-4	Tert-Amyl Alcohol	250	191	76	65-124
75-65-0	Tert-Butyl Alcohol	250	216	86	63-129
79-34-5	1,1,2,2-Tetrachloroethane	25	25.4	102	72-120
127-18-4	Tetrachloroethylene	25	38.9	156*	76-135
109-99-9	Tetrahydrofuran	25	29.9	120	56-122
108-88-3	Toluene	25	25.9	104	80-120
87-61-6	1,2,3-Trichlorobenzene	25	28.2	113	68-131
120-82-1	1,2,4-Trichlorobenzene	25	26.7	107	73-129
71-55-6	1,1,1-Trichloroethane	25	27.5	110	75-130
79-00-5	1,1,2-Trichloroethane	25	29.0	116	76-119
79-01-6	Trichloroethylene	25	28.9	116	81-126
75-69-4	Trichlorofluoromethane	25	34.7	139	71-156
95-63-6	1,2,4-Trimethylbenzene	25	27.0	108	79-120
75-01-4	Vinyl Chloride	25	30.8	123	69-159
	m,p-Xylene	50	57.4	115	79-126
95-47-6	o-Xylene	25	27.7	111	80-127

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	104%	83-118%
17060-07-0	1,2-Dichloroethane-D4	98%	79-125%
2037-26-5	Toluene-D8	108%	85-112%
460-00-4	4-Bromofluorobenzene	103%	83-118%

(a) No sample available for MS/MSD.

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA34891
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, Humacao, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA34891-2MS	J0977739.D	5	06/30/16	DP	n/a	n/a	VJ5358
FA34891-2MSD	J0977740.D	5	06/30/16	DP	n/a	n/a	VJ5358
FA34891-2	J0977730.D	5	06/30/16	DP	n/a	n/a	VJ5358

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

FA34891-1, FA34891-2, FA34891-3, FA34891-4, FA34891-5, FA34891-6, FA34891-7

CAS No.	Compound	FA34891-2 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		625	668	107	625	570	91	16	50-147/21
71-43-2	Benzene	3.3	J	125	132	103	125	158	124*	18*	81-122/14
100-44-7	Benzyl Chloride	ND		125	97.1	78	125	83.9	67	15	54-122/18
74-97-5	Bromochloromethane	ND		125	108	86	125	115	92	6	76-123/14
75-27-4	Bromodichloromethane	ND		125	107	86	125	112	90	5	79-123/19
75-25-2	Bromoform	ND		125	70.4	56*	125	81.6	65*	15	66-123/21
78-93-3	2-Butanone (MEK)	ND		625	586	94	625	650	104	10	56-143/18
75-15-0	Carbon Disulfide	ND		125	139	111	125	111	89	22	66-148/23
56-23-5	Carbon Tetrachloride	ND		125	122	98	125	122	98	0	76-136/23
108-90-7	Chlorobenzene	ND		125	133	106	125	136	109	2	82-124/14
75-00-3	Chloroethane	ND		125	114	91	125	127	102	11	62-144/20
67-66-3	Chloroform	ND		125	113	90	125	129	103	13	80-124/15
110-82-7	Cyclohexane	ND		125	129	103	125	137	110	6	73-138/18
124-48-1	Dibromochloromethane	ND		125	95.4	76*	125	100	80	5	78-122/19
96-12-8	1,2-Dibromo-3-chloropropane	ND		125	114	91	125	118	94	3	64-123/18
106-93-4	1,2-Dibromoethane	ND		125	129	103	125	131	105	2	75-120/13
75-71-8	Dichlorodifluoromethane	ND		125	72.4	58	125	73.1	58	1	42-167/19
95-50-1	1,2-Dichlorobenzene	ND		125	145	116	125	150	120	3	82-124/14
541-73-1	1,3-Dichlorobenzene	ND		125	146	117	125	151	121	3	84-125/14
106-46-7	1,4-Dichlorobenzene	ND		125	134	107	125	146	117	9	78-120/15
75-34-3	1,1-Dichloroethane	ND		125	123	98	125	147	118	18*	81-122/15
107-06-2	1,2-Dichloroethane	ND		125	107	86	125	123	98	14	75-125/14
75-35-4	1,1-Dichloroethylene	ND		125	143	114	125	133	106	7	78-137/18
156-59-2	cis-1,2-Dichloroethylene	ND		125	117	94	125	133	106	13	78-120/15
156-60-5	trans-1,2-Dichloroethylene	ND		125	146	117	125	141	113	3	76-127/17
78-87-5	1,2-Dichloropropane	ND		125	141	113	125	135	108	4	76-124/14
10061-01-5	cis-1,3-Dichloropropene	ND		125	101	81	125	106	85	5	75-118/23
10061-02-6	trans-1,3-Dichloropropene	ND		125	131	105	125	116	93	12	80-120/22
100-41-4	Ethylbenzene	78.4		125	205	101	125	208	104	1	81-121/14
76-13-1	Freon 113	ND		125	136	109	125	117	94	15	72-134/20
591-78-6	2-Hexanone	ND		625	659	105	625	681	109	3	61-129/18
98-82-8	Isopropylbenzene	12.4		125	159	117	125	159	117	0	83-132/15
99-87-6	p-Isopropyltoluene	ND		125	145	116	125	149	119	3	79-130/16
79-20-9	Methyl Acetate	ND		625	577	92	625	574	92	1	65-126/18
74-83-9	Methyl Bromide	ND		125	118	94	125	129	103	9	59-143/19
74-87-3	Methyl Chloride	ND		125	99.4	80	125	92.3	74	7	50-159/19

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA34891
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, Humacao, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA34891-2MS	J0977739.D	5	06/30/16	DP	n/a	n/a	VJ5358
FA34891-2MSD	J0977740.D	5	06/30/16	DP	n/a	n/a	VJ5358
FA34891-2	J0977730.D	5	06/30/16	DP	n/a	n/a	VJ5358

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

FA34891-1, FA34891-2, FA34891-3, FA34891-4, FA34891-5, FA34891-6, FA34891-7

CAS No.	Compound	FA34891-2 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		125	122	98	125	130	104	6	76-129/17
75-09-2	Methylene Chloride	ND		125	140	112	125	125	100	11	69-135/16
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		625	664	106	625	679	109	2	66-122/16
1634-04-4	Methyl Tert Butyl Ether	4.6	J	125	104	80	125	108	83	4	72-117/14
100-42-5	Styrene	ND		125	124	99	125	134	107	8	78-119/23
75-85-4	Tert-Amyl Alcohol	ND		1250	1010	81	1250	1070	86	6	65-124/23
75-65-0	Tert-Butyl Alcohol	260		1250	1600	107	1250	1720	117	7	63-129/27
79-34-5	1,1,2,2-Tetrachloroethane	ND		125	151	121*	125	153	122*	1	72-120/14
127-18-4	Tetrachloroethylene	ND		125	135	108	125	120	96	12	76-135/16
109-99-9	Tetrahydrofuran	ND		125	106	85	125	131	105	21	56-122/21
108-88-3	Toluene	ND		125	135	108	125	137	110	1	80-120/14
87-61-6	1,2,3-Trichlorobenzene	ND		125	126	101	125	131	105	4	68-131/25
120-82-1	1,2,4-Trichlorobenzene	ND		125	116	93	125	117	94	1	73-129/20
71-55-6	1,1,1-Trichloroethane	ND		125	112	90	125	123	98	9	75-130/16
79-00-5	1,1,2-Trichloroethane	ND		125	132	106	125	135	108	2	76-119/14
79-01-6	Trichloroethylene	ND		125	125	100	125	140	112	11	81-126/15
75-69-4	Trichlorofluoromethane	ND		125	128	102	125	125	100	2	71-156/21
95-63-6	1,2,4-Trimethylbenzene	ND		125	139	111	125	142	114	2	79-120/18
75-01-4	Vinyl Chloride	ND		125	105	84	125	110	88	5	69-159/18
	m,p-Xylene	273		250	523	100	250	530	103	1	79-126/15
95-47-6	o-Xylene	ND		125	123	98	125	136	109	10	80-127/14

CAS No.	Surrogate Recoveries	MS	MSD	FA34891-2	Limits
1868-53-7	Dibromofluoromethane	92%	101%	95%	83-118%
17060-07-0	1,2-Dichloroethane-D4	91%	94%	84%	79-125%
2037-26-5	Toluene-D8	102%	107%	95%	85-112%
460-00-4	4-Bromofluorobenzene	100%	103%	97%	83-118%

* = Outside of Control Limits.

Instrument Performance Check (BFB)

Job Number: FA34891
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, Humacao, PR

Sample: VJ5340-BFB
Lab File ID: J0977350.D
Instrument ID: GCMSJ
Injection Date: 06/21/16
Injection Time: 07:44

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	15.0 - 40.0% of mass 95	31261	23.3		Pass
75	30.0 - 60.0% of mass 95	78256	58.4		Pass
95	Base peak, 100% relative abundance	134093	100.0		Pass
96	5.0 - 9.0% of mass 95	9296	6.93		Pass
173	Less than 2.0% of mass 174	650	0.48	(0.60) [a]	Pass
174	50.0 - 100.0% of mass 95	108475	80.9		Pass
175	5.0 - 9.0% of mass 174	8418	6.28	(7.76) [a]	Pass
176	95.0 - 101.0% of mass 174	108896	81.2	(100.4) [a]	Pass
177	5.0 - 9.0% of mass 176	7295	5.44	(6.70) [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
VJ5340-IC5340	J0977352.D	06/21/16	08:38	00:54	Initial cal 1
VJ5340-IC5340	J0977353.D	06/21/16	09:01	01:17	Initial cal 2
VJ5340-IC5340	J0977354.D	06/21/16	09:24	01:40	Initial cal 3
VJ5340-IC5340	J0977355.D	06/21/16	09:47	02:03	Initial cal 4
VJ5340-ICC5340	J0977356.D	06/21/16	10:09	02:25	Initial cal 5
VJ5340-IC5340	J0977357.D	06/21/16	10:32	02:48	Initial cal 6
VJ5340-IC5340	J0977358.D	06/21/16	10:55	03:11	Initial cal 7
VJ5340-ICV5340	J0977360.D	06/21/16	11:51	04:07	Initial cal verification 5
VJ5340-BS	J0977361.D	06/21/16	12:44	05:00	Blank Spike
VJ5340-MB	J0977362.D	06/21/16	13:07	05:23	Method Blank
ZZZZZZ	J0977363.D	06/21/16	13:30	05:46	(unrelated sample)
FA34698-2	J0977364.D	06/21/16	13:53	06:09	(used for QC only; not part of job FA34891)
ZZZZZZ	J0977366.D	06/21/16	14:38	06:54	(unrelated sample)
ZZZZZZ	J0977368.D	06/21/16	15:24	07:40	(unrelated sample)
ZZZZZZ	J0977369.D	06/21/16	15:47	08:03	(unrelated sample)
ZZZZZZ	J0977370.D	06/21/16	16:10	08:26	(unrelated sample)
ZZZZZZ	J0977371.D	06/21/16	16:32	08:48	(unrelated sample)
FA34698-2MS	J0977372.D	06/21/16	16:55	09:11	Matrix Spike
FA34698-2MSD	J0977373.D	06/21/16	17:18	09:34	Matrix Spike Duplicate
VJ5340-ECC5340	J0977374.D	06/21/16	17:41	09:57	Ending cal 5

Instrument Performance Check (BFB)

Job Number: FA34891
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, Humacao, PR

Sample: VJ5357-BFB
Lab File ID: J0977714.D
Instrument ID: GCMSJ
Injection Date: 06/30/16
Injection Time: 08:13

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	15.0 - 40.0% of mass 95	42120	19.5		Pass
75	30.0 - 60.0% of mass 95	117424	54.5		Pass
95	Base peak, 100% relative abundance	215467	100.0		Pass
96	5.0 - 9.0% of mass 95	13120	6.09		Pass
173	Less than 2.0% of mass 174	0	0.00	(0.00) [a]	Pass
174	50.0 - 100.0% of mass 95	174763	81.1		Pass
175	5.0 - 9.0% of mass 174	14308	6.64	(8.19) [a]	Pass
176	95.0 - 101.0% of mass 174	174677	81.1	(100.0) [a]	Pass
177	5.0 - 9.0% of mass 176	10177	4.72	(5.83) [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
VJ5357-CC5340	J0977716.D	06/30/16	09:13	01:00	Continuing cal 5
VJ5358-BS	J0977717.D	06/30/16	09:41	01:28	Blank Spike
VJ5357-BS	J0977717.D	06/30/16	09:41	01:28	Blank Spike
ZZZZZZ	J0977719.D	06/30/16	10:56	02:43	(unrelated sample)
ZZZZZZ	J0977720.D	06/30/16	11:19	03:06	(unrelated sample)
ZZZZZZ	J0977721.D	06/30/16	11:42	03:29	(unrelated sample)
ZZZZZZ	J0977722.D	06/30/16	12:05	03:52	(unrelated sample)
ZZZZZZ	J0977723.D	06/30/16	12:28	04:15	(unrelated sample)
ZZZZZZ	J0977724.D	06/30/16	12:51	04:38	(unrelated sample)
FA34891-1	J0977725.D	06/30/16	13:14	05:01	MW-3
ZZZZZZ	J0977726.D	06/30/16	13:37	05:24	(unrelated sample)
FA34834-29	J0977727.D	06/30/16	13:59	05:46	(used for QC only; not part of job FA34891)
ZZZZZZ	J0977728.D	06/30/16	14:22	06:09	(unrelated sample)
ZZZZZZ	J0977729.D	06/30/16	14:45	06:32	(unrelated sample)
FA34891-2	J0977730.D	06/30/16	15:08	06:55	MW-5
FA34891-3	J0977731.D	06/30/16	15:31	07:18	MW-13
FA34891-4	J0977732.D	06/30/16	15:54	07:41	BR-4
FA34891-5	J0977733.D	06/30/16	16:17	08:04	MW-16
FA34891-6	J0977734.D	06/30/16	16:40	08:27	MW-9
FA34891-7	J0977735.D	06/30/16	17:03	08:50	MW-23S
VJ5358-MB	J0977738.D	06/30/16	18:11	09:58	Method Blank
VJ5357-MB	J0977738.D	06/30/16	18:11	09:58	Method Blank
FA34891-2MS	J0977739.D	06/30/16	18:34	10:21	Matrix Spike
FA34891-2MSD	J0977740.D	06/30/16	18:57	10:44	Matrix Spike Duplicate

Instrument Performance Check (BFB)

Job Number: FA34891
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, Humacao, PR

Sample: VJ5357-BFB
Lab File ID: J0977714.D
Instrument ID: GCMSJ
Injection Date: 06/30/16
Injection Time: 08:13

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
FA34834-29MS	J0977741.D	06/30/16	19:19	11:06	Matrix Spike
FA34834-29MSD	J0977742.D	06/30/16	19:42	11:29	Matrix Spike Duplicate
VJ5357-ECC5340	J0977743.D	06/30/16	20:05	11:52	Ending cal 5

Instrument Performance Check (BFB)

Job Number: FA34891
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, Humacao, PR

Sample: VJ5359-BFB
Lab File ID: J0977746.D
Instrument ID: GCMSJ
Injection Date: 07/01/16
Injection Time: 08:55

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	15.0 - 40.0% of mass 95	20293	22.4		Pass
75	30.0 - 60.0% of mass 95	49184	54.4		Pass
95	Base peak, 100% relative abundance	90469	100.0		Pass
96	5.0 - 9.0% of mass 95	8041	8.89		Pass
173	Less than 2.0% of mass 174	205	0.23	(0.29) [a]	Pass
174	50.0 - 100.0% of mass 95	71411	78.9		Pass
175	5.0 - 9.0% of mass 174	5567	6.15	(7.80) [a]	Pass
176	95.0 - 101.0% of mass 174	67861	75.0	(95.0) [a]	Pass
177	5.0 - 9.0% of mass 176	4547	5.03	(6.70) [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
VJ5359-IC5359	J0977747.D	07/01/16	09:19	00:24	Initial cal 2
VJ5359-IC5359	J0977748.D	07/01/16	09:42	00:47	Initial cal 3
VJ5359-IC5359	J0977749.D	07/01/16	10:05	01:10	Initial cal 4
VJ5359-ICC5359	J0977750.D	07/01/16	10:28	01:33	Initial cal 5
VJ5359-IC5359	J0977751.D	07/01/16	10:51	01:56	Initial cal 6
VJ5359-IC5359	J0977752.D	07/01/16	11:14	02:19	Initial cal 7
VJ5359-IC5359	J0977754.D	07/01/16	12:00	03:05	Initial cal 1
VJ5359-ICV5359	J0977755.D	07/01/16	12:23	03:28	Initial cal verification 5
VJ5360-BS	J0977756.D	07/01/16	13:16	04:21	Blank Spike
VJ5359-BS	J0977756.D	07/01/16	13:16	04:21	Blank Spike
VJ5359-MB	J0977757.D	07/01/16	13:39	04:44	Method Blank
VJ5360-MB	J0977757.D	07/01/16	13:39	04:44	Method Blank
FA35005-1	J0977758.D	07/01/16	14:02	05:07	(used for QC only; not part of job FA34891)
FA34891-2	J0977759.D	07/01/16	14:25	05:30	MW-5
FA34891-8	J0977760.D	07/01/16	14:48	05:53	MW-21S
FA34891-9	J0977761.D	07/01/16	15:11	06:16	TB062016
ZZZZZZ	J0977762.D	07/01/16	15:34	06:39	(unrelated sample)
ZZZZZZ	J0977763.D	07/01/16	15:57	07:02	(unrelated sample)
ZZZZZZ	J0977764.D	07/01/16	16:20	07:25	(unrelated sample)
ZZZZZZ	J0977765.D	07/01/16	16:43	07:48	(unrelated sample)
ZZZZZZ	J0977766.D	07/01/16	17:06	08:11	(unrelated sample)
ZZZZZZ	J0977767.D	07/01/16	17:28	08:33	(unrelated sample)
ZZZZZZ	J0977768.D	07/01/16	17:51	08:56	(unrelated sample)
ZZZZZZ	J0977769.D	07/01/16	18:14	09:19	(unrelated sample)

Instrument Performance Check (BFB)

Job Number: FA34891
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, Humacao, PR

Sample: VJ5359-BFB
Lab File ID: J0977746.D
Instrument ID: GCMSJ
Injection Date: 07/01/16
Injection Time: 08:55

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
ZZZZZZ	J0977770.D	07/01/16	18:37	09:42	(unrelated sample)
ZZZZZZ	J0977771.D	07/01/16	19:00	10:05	(unrelated sample)
ZZZZZZ	J0977772.D	07/01/16	19:23	10:28	(unrelated sample)
ZZZZZZ	J0977773.D	07/01/16	19:46	10:51	(unrelated sample)
ZZZZZZ	J0977774.D	07/01/16	20:09	11:14	(unrelated sample)
ZZZZZZ	J0977775.D	07/01/16	20:32	11:37	(unrelated sample)
ZZZZZZ	J0977776.D	07/01/16	20:54	11:59	(unrelated sample)
FA35005-1MS	J0977777.D	07/01/16	21:17	12:22	Matrix Spike
FA35005-1MSD	J0977778.D	07/01/16	21:40	12:45	Matrix Spike Duplicate
VJ5359-ECC5359	J0977779.D	07/01/16	22:03	13:08	Ending cal 5

Volatile Internal Standard Area Summary

Job Number: FA34891
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, Humacao, PR

Check Std:	VJ5357-CC5340	**Injection Date:**	06/30/16
Lab File ID:	J0977716.D	**Injection Time:**	09:13
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]	514943	7.75	379568	10.83	202128	13.19	39582	5.30
Check Std [b]	550646	7.74	381439	10.83	187315	13.19	40877	5.28
Upper Limit [c]	1101292	8.24	762878	11.33	374630	13.69	81754	5.78
Lower Limit [d]	275323	7.24	190720	10.33	93658	12.69	20439	4.78

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT
VJ5358-BS	619510	7.74	429644	10.83	209332	13.19	40797	5.28
VJ5357-BS	619510	7.74	429644	10.83	209332	13.19	40797	5.28
ZZZZZZ	489254	7.74	336373	10.83	156756	13.19	33680	5.28
ZZZZZZ	513022	7.74	368125	10.83	176929	13.19	29088	5.28
ZZZZZZ	470158	7.74	321989	10.83	144893	13.19	24917	5.28
ZZZZZZ	465807	7.74	334990	10.83	141065	13.19	28686	5.28
ZZZZZZ	457811	7.75	300571	10.83	145146	13.19	24690	5.28
ZZZZZZ	439740	7.74	305148	10.83	150257	13.19	22633	5.28
FA34891-1	466913	7.75	316547	10.83	158368	13.19	27379	5.30
ZZZZZZ	417441	7.74	315453	10.83	143164	13.19	25103	5.29
FA34834-29	385934	7.74	314516	10.83	145899	13.19	24308	5.30
ZZZZZZ	464437	7.74	325305	10.83	142071	13.19	28461	5.28
ZZZZZZ	405311	7.74	282542	10.83	118601	13.19	25360	5.28
FA34891-2	442335	7.75	296907	10.83	143560	13.19	30852	5.30
FA34891-3	370742	7.75	289813	10.83	125898	13.19	26979	5.28
FA34891-4	409866	7.74	295733	10.83	131822	13.19	27929	5.29
FA34891-5	392841	7.75	295485	10.83	128172	13.19	21616	5.29
FA34891-6	326754	7.74	251255	10.83	118468	13.19	22409	5.28
FA34891-7	400194	7.74	253275	10.83	121014	13.19	26350	5.28
VJ5358-MB	342468	7.74	247285	10.83	109008	13.19	21485	5.28
VJ5357-MB	342468	7.74	247285	10.83	109008	13.19	21485	5.28
FA34891-2MS	414356	7.75	255916	10.84	124696	13.19	27009	5.29
FA34891-2MSD	390934	7.74	280232	10.83	145701	13.19	26895	5.28
FA34834-29MS	365477	7.74	280573	10.83	141388	13.19	26410	5.28
FA34834-29MSD	400474	7.74	298423	10.83	143029	13.19	29148	5.27
VJ5357-ECC5340	562970	7.74	370797	10.83	181672	13.19	34361	5.27

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

(a) Initial Cal is: VJ5340-ICC5340 J0977356.D 06/21/16 10:09

Volatile Internal Standard Area Summary

Job Number: FA34891
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, Humacao, PR

Check Std:	VJ5357-CC5340	**Injection Date:**	06/30/16
Lab File ID:	J0977716.D	**Injection Time:**	09:13
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**

(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: FA34891
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, Humacao, PR

Check Std:	VJ5359-ICC5359	**Injection Date:**	07/01/16
Lab File ID:	J0977750.D	**Injection Time:**	10:28
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]	556525	7.74	411386	10.83	209898	13.19	33688	5.28
Check Std [b]	556525	7.74	411386	10.83	209898	13.19	33688	5.28
Upper Limit [c]	1113050	8.24	822772	11.33	419796	13.69	67376	5.78
Lower Limit [d]	278263	7.24	205693	10.33	104949	12.69	16844	4.78

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT
VJ5359-BS	511709	7.74	377532	10.83	186182	13.19	41415	5.30
VJ5360-BS [e]	511709	7.74	377532	10.83	186182	13.19	41415	5.30
VJ5360-MB	463405	7.75	329426	10.83	151876	13.19	33941	5.28
VJ5359-MB	463405	7.75	329426	10.83	151876	13.19	33941	5.28
FA35005-1	424388	7.75	298738	10.83	149637	13.19	32252	5.30
FA34891-2	544843	7.74	383772	10.83	176027	13.19	29595	5.28
FA34891-8	533086	7.74	378269	10.83	177956	13.19	28951	5.29
FA34891-9	528104	7.74	370381	10.83	169132	13.19	29487	5.28
ZZZZZZ	503390	7.74	345624	10.83	162441	13.19	28383	5.30
ZZZZZZ	503045	7.75	344807	10.83	161586	13.19	25679	5.28
ZZZZZZ	467383	7.74	321868	10.83	145563	13.19	25558	5.29
ZZZZZZ	454436	7.74	314346	10.83	143023	13.19	23186	5.28
ZZZZZZ	424471	7.74	298616	10.83	137041	13.19	22807	5.27
ZZZZZZ	396422	7.74	279605	10.83	125779	13.19	23495	5.27
ZZZZZZ	375750	7.74	265137	10.83	121609	13.19	21145	5.28
ZZZZZZ	360529	7.74	254408	10.83	118022	13.19	22885	5.27
ZZZZZZ	360737	7.74	250978	10.83	113296	13.19	21291	5.28
ZZZZZZ	347851	7.74	239230	10.83	112104	13.19	22675	5.28
ZZZZZZ	336046	7.74	234343	10.83	107369	13.19	22650	5.29
ZZZZZZ	320835	7.74	225537	10.83	101623*	13.19	25441	5.29
ZZZZZZ	316920	7.74	224720	10.83	115745	13.19	24202	5.29
ZZZZZZ	464707	7.74	309544	10.83	139000	13.19	27474	5.28
ZZZZZZ	462010	7.74	332579	10.83	150846	13.19	29385	5.29
FA35005-1MS	488877	7.74	351223	10.83	181126	13.19	33487	5.30
FA35005-1MSD	620550	7.74	438795	10.83	208825	13.19	41161	5.28
VJ5359-ECC5359	669470	7.74	474705	10.83	221347	13.19	38513	5.29

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

(a) Initial Cal is: VJ5359-ICC5359 J0977750.D 07/01/16 10:28

Volatile Internal Standard Area Summary

Job Number: FA34891
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, Humacao, PR

Check Std:	VJ5359-ICC5359	**Injection Date:**	07/01/16
Lab File ID:	J0977750.D	**Injection Time:**	10:28
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**

(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 Surrogate Recovery Summary

Job Number: FA34891
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
FA34891-1	J0977725.D	94	86	104	101
FA34891-2	J0977759.D	95	92	103	103
FA34891-2	J0977730.D	95	84	95	97
FA34891-3	J0977731.D	102	90	98	107
FA34891-4	J0977732.D	96	89	98	108
FA34891-5	J0977733.D	96	81	98	109
FA34891-6	J0977734.D	113	92	120* [a]	110
FA34891-7	J0977735.D	90	89	116* [a]	104
FA34891-8	J0977760.D	97	95	105	103
FA34891-9	J0977761.D	99	92	106	105
FA34891-2MS	J0977739.D	92	91	102	100
FA34891-2MSD	J0977740.D	101	94	107	103
VJ5358-BS	J0977717.D	95	82	106	107
VJ5358-MB	J0977738.D	92	90	105	102
VJ5360-BS	J0977756.D	104	98	108	103
VJ5360-MB	J0977757.D	101	100	105	101

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

(a) Outside control limits; however, sample is ND.

Initial Calibration Summary

Job Number: FA34891
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, Humacao, PR
Sample: VJ5340-ICC5340
Lab FileID: J0977356.D

Response Factor Report MSVOA6

```
Method       : C:\msdchem\1\methods\MSJ062116a.M (RTE Integrator)
Title        : SW-846 Method 5030B/8260B & EPA 624
Last Update  : Wed Jun 22 07:48:34 2016
Response via : Initial Calibration

Calibration Files
1   =J0977352.D  2   =J0977353.D  3   =J0977354.D  4   =J0977355.D
5   =J0977356.D  6   =J0977357.D  7   =J0977358.D

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

1) I   Fluorobenzene         ----------------ISTD---------------------
2)  Dichlorodifluorom 0.330 0.371 0.356 0.336 0.391 0.309 0.319 0.345   8.49
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9929
              Response Ratio = 0.00000 + 0.36915 *A + -0.02742 *A^2

3)P Chloromethane     0.279 0.427 0.370 0.343 0.396 0.322 0.335 0.353  13.89
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9942
              Response Ratio = 0.00000 + 0.37269 *A + -0.02114 *A^2

4)C Vinyl Chloride    0.325 0.386 0.376 0.344 0.387 0.314 0.322 0.351   9.11
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9948
              Response Ratio = 0.00000 + 0.37340 *A + -0.02817 *A^2

5)  1,3-Butadiene     0.206 0.253 0.310 0.252 0.259 0.249 0.225 0.251  12.76
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9989
              Response Ratio = 0.00000 + 0.28358 *A + -0.02830 *A^2

6)  Bromomethane      0.333 0.349 0.277 0.275 0.318 0.267 0.255 0.296  12.32
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9966
              Response Ratio = 0.00000 + 0.31804 *A + -0.03206 *A^2

7)  Chloroethane      0.163 0.249 0.206 0.219 0.247 0.197 0.172 0.208  16.23
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9958
              Response Ratio = 0.00000 + 0.26390 *A + -0.04586 *A^2

8)  Trichlorofluorome 0.536 0.668 0.621 0.570 0.655 0.545 0.557 0.593   9.14
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9957
              Response Ratio = 0.00000 + 0.62587 *A + -0.03761 *A^2

9)  Ethyl Ether       0.253 0.226 0.229 0.241 0.234 0.239 0.243 0.238   3.89
10)  1,2-Dichlorotrifl 0.298 0.310 0.325 0.305 0.301 0.304 0.292 0.305   3.49
11)C 1,1-Dichloroethen 0.398 0.409 0.459 0.436 0.433 0.439 0.401 0.425   5.35
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9989
              Response Ratio = 0.00000 + 0.47098 *A + -0.03302 *A^2

12)  Freon 113        0.146 0.251 0.286 0.264 0.266 0.265 0.246 0.246  18.74
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9994
              Response Ratio = 0.00000 + 0.28376 *A + -0.01778 *A^2

13)  Carbon Disulfide 0.837 0.821 0.840 0.853 0.823 0.867 0.816 0.837   2.23
14)  Iodomethane      0.562 0.409 0.418 0.422 0.402 0.408 0.394 0.431  13.58
15)  Allyl chloride   0.368 0.336 0.458 0.382 0.389 0.390 0.371 0.385   9.65
16)  Methylene Chlorid 0.376 0.436 0.437 0.400 0.383 0.395 0.384 0.402   6.28
17)  Acetone          0.015 0.019 0.015 0.015 0.017 0.018 0.017 0.017  11.32
18)  Methyl acetate   0.028 0.030 0.033 0.029 0.030 0.032 0.032 0.030   5.40
19)  trans-1,2-Dichlor 0.345 0.349 0.399 0.389 0.383 0.386 0.363 0.373   5.66
```

Initial Calibration Summary

Job Number: FA34891 **Sample:** VJ5340-ICC5340
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** J0977356.D
Project: BMSMC, Building 5 Area, Humacao, PR

```
20)  Hexane            0.277 0.236 0.233 0.258 0.247 0.256 0.242 0.250   6.12
21)  Methyl Tert Butyl 0.924 0.809 0.788 0.809 0.761 0.792 0.771 0.808   6.72
22)  Acetonitrile      0.006 0.014 0.015 0.012 0.012 0.012       0.012  24.50
             ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9985
               Response Ratio = 0.00000 + 0.01258 *A + -0.00002 *A^2

23)  Di-isopropyl ethe 0.921 1.017 0.988 1.008 0.945 0.970 0.934 0.969   3.83
24)  Chloroprene       0.376 0.411 0.570 0.484 0.523 0.503 0.477 0.478  13.82
             ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9991
               Response Ratio = 0.00000 + 0.53791 *A + -0.02944 *A^2

25)P 1,1-Dichloroethan 0.434 0.531 0.533 0.514 0.499 0.513 0.498 0.503   6.64
26)  Acrylonitrile     0.071 0.078 0.070 0.072 0.073 0.071 0.071 0.072   3.68
             ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9999
               Response Ratio = 0.00000 + 0.07366 *A + -0.00031 *A^2

27)  ETBE              1.042 1.048 1.022 1.021 0.980 0.996 0.987 1.014   2.64
28)  Vinyl acetate     0.432 0.557 0.551 0.567 0.555 0.546 0.525 0.533   8.71
29)  cis-1,2-Dichloroe 0.350 0.273 0.293 0.336 0.295 0.308 0.295 0.307   8.78
30)  2,2-Dichloropropa 0.417 0.399 0.426 0.463 0.422 0.435 0.413 0.425   4.76
31)  Bromochloromethan 0.136 0.143 0.142 0.130 0.128 0.132 0.131 0.135   4.51
32)  Cyclohexane       0.465 0.466 0.503 0.479 0.482 0.467 0.443 0.472   3.99
33)C Chloroform        0.740 0.554 0.564 0.597 0.538 0.560 0.535 0.584  12.30
             ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9991
               Response Ratio = 0.00000 + 0.58251 *A + -0.02290 *A^2

34)  Ethyl acetate     0.185 0.212 0.187 0.190 0.198 0.193 0.193 0.194   4.65
35)  Tetrahydrofuran   0.050 0.085 0.060 0.059 0.054 0.055 0.056 0.060  19.38
             ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9990
               Response Ratio = 0.00000 + 0.05579 *A + 0.00001 *A^2

36)S Dibromofluorometh 0.273 0.262 0.270 0.261 0.259 0.264 0.253 0.263   2.50
37)  Carbon Tetrachlor 0.414 0.407 0.420 0.407 0.417 0.412 0.397 0.411   1.87
38)  1,1,1-Trichloroet 0.495 0.468 0.547 0.520 0.508 0.515 0.480 0.505   5.24
39)  2-Butanone        0.068 0.079 0.073 0.074 0.081 0.081 0.078 0.076   6.41
40)  1,1-Dichloroprope 0.334 0.347 0.401 0.396 0.366 0.372 0.356 0.368   6.73
41)  tert-Butyl Format 0.127 0.145 0.149 0.178 0.178 0.178 0.184 0.163  13.62
             ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9997
               Response Ratio = 0.00000 + 0.17009 *A + 0.00066 *A^2

42)  Propionitrile     0.026 0.026 0.030 0.027 0.026 0.027 0.027 0.027   6.24
43)  Methacrylonitrile 0.105 0.123 0.138 0.120 0.128 0.127 0.121 0.123   7.96
44)  Benzene           1.069 1.030 1.064 1.031 0.995 1.019 0.992 1.029   2.91
             ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9998
               Response Ratio = 0.00000 + 1.03527 *A + -0.02006 *A^2

45)  TAME              0.998 0.828 0.759 0.791 0.756 0.789 0.763 0.812  10.57
46)S 1,2-Dichloroethan 0.354 0.404 0.396 0.379 0.398 0.384 0.373 0.384   4.52
47)  1,2-Dichloroethan 0.615 0.499 0.468 0.481 0.441 0.454 0.434 0.485  12.71
             ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9994
               Response Ratio = 0.00000 + 0.47541 *A + -0.01992 *A^2

48)  Trichloroethene   0.284 0.258 0.291 0.289 0.272 0.282 0.269 0.278   4.37
49)  Methylcyclohexane 0.630 0.459 0.458 0.477 0.461 0.464 0.441 0.484  13.40
50)  Dibromomethane    0.225 0.147 0.154 0.172 0.148 0.160 0.163 0.167  16.24
             ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9987
               Response Ratio = 0.00000 + 0.15215 *A + 0.00544 *A^2

51)C 1,2-Dichloropropa 0.283 0.259 0.271 0.276 0.266 0.274 0.267 0.271   2.89
52)  Bromodichlorometh 0.426 0.415 0.414 0.431 0.411 0.414 0.402 0.416   2.29
```

Initial Calibration Summary

Job Number: FA34891 **Sample:** VJ5340-ICC5340
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** J0977356.D
Project: BMSMC, Building 5 Area, Humacao, PR

```
53)  Methyl methacryla 0.090 0.179 0.201 0.167 0.193 0.197 0.188 0.174  22.33
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9981
              Response Ratio = 0.00000 + 0.19190 *A + -0.00099 *A^2

54)  2-Chloroethyl vin       0.134 0.146 0.145 0.147 0.150 0.147 0.145   3.69
55)  cis-1,3-Dichlorop 0.485 0.462 0.458 0.443 0.418 0.447 0.430 0.449   4.96

56) I   Chlorobenzene-d5      ----------------ISTD--------------------
57)S Toluene-d8        1.326 1.383 1.322 1.355 1.300 1.273 1.292 1.322   2.85
58)C Toluene           1.966 1.600 1.567 1.626 1.463 1.523 1.434 1.597  11.09
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9990
              Response Ratio = 0.00000 + 1.60620 *A + -0.08260 *A^2

59)  2-Nitropropane    0.089 0.092 0.088 0.095 0.085 0.087 0.086 0.089   3.93
60)  4-Methyl-2-pentan 0.229 0.233 0.231 0.257 0.264 0.262 0.259 0.248   6.40
61)  trans-1,3-Dichlor 0.556 0.505 0.525 0.562 0.508 0.520 0.523 0.528   4.21
62)  Tetrachloroethene 0.363 0.379 0.370 0.422 0.383 0.396 0.373 0.384   5.15
63)  Ethyl methacrylat 0.378 0.351 0.420 0.406 0.387 0.405 0.394 0.392   5.71
64)  1,1,2-Trichloroet 0.342 0.306 0.261 0.285 0.235 0.249 0.238 0.274  14.45
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9976
              Response Ratio = 0.00000 + 0.26411 *A + -0.01288 *A^2

65)  Dibromochlorometh 0.454 0.392 0.347 0.364 0.351 0.362 0.353 0.375  10.15
66)  1,3-Dichloropropa 0.657 0.615 0.552 0.607 0.513 0.531 0.528 0.572   9.51
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9984
              Response Ratio = 0.00000 + 0.55152 *A + -0.01279 *A^2

67)  1,2-Dibromoethane 0.405 0.368 0.336 0.315 0.297 0.303 0.299 0.332  12.34
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9997
              Response Ratio = 0.00000 + 0.30968 *A + -0.00535 *A^2

68)  2-hexanone        0.150 0.146 0.173 0.174 0.177 0.179 0.180 0.168   8.51
69)  1-Chlorohexane    0.495 0.506 0.485 0.537 0.497 0.498 0.471 0.498   4.11
70)C Ethylbenzene      2.081 1.847 1.854 1.972 1.760 1.804 1.740 1.866   6.52
71)P Chlorobenzene     1.571 1.099 0.994 1.048 0.964 0.948 0.925 1.079  20.91
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9997
              Response Ratio = 0.00000 + 1.02198 *A + -0.04939 *A^2

72)  1,1,1,2-Tetrachlo 0.505 0.342 0.357 0.387 0.328 0.340 0.346 0.372  16.49
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9983
              Response Ratio = 0.00000 + 0.34365 *A + 0.00041 *A^2

73)  m,p-Xylene        1.622 1.479 1.430 1.513 1.368 1.378 1.305 1.442   7.34
74)  o-Xylene          1.937 1.534 1.506 1.615 1.438 1.475 1.421 1.561  11.40
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9992
              Response Ratio = 0.00000 + 1.55299 *A + -0.06499 *A^2

75)  Styrene           1.273 1.173 1.066 1.159 1.072 1.081 1.060 1.126   7.05
76)P Bromoform         0.269 0.212 0.199 0.219 0.205 0.206 0.214 0.218  10.86
77)  Isopropylbenzene  1.874 1.787 1.736 1.866 1.669 1.693 1.635 1.751   5.40

78) I   1,4-Dichlorobenzene-d ----------------ISTD--------------------
79)S 4-Bromofluorobenz 0.826 0.965 0.995 0.935 0.978 0.947 1.079 0.961   7.87
80)  cis-1,4-Dichloro- 0.139 0.251 0.263 0.244 0.247 0.257 0.271 0.239  18.82
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9998
              Response Ratio = 0.00000 + 0.23269 *A + 0.01883 *A^2

81)  n-Propylbenzene   4.501 3.909 3.999 4.106 3.802 3.865 3.728 3.987   6.48
82)  Bromobenzene      1.063 0.861 0.789 0.752 0.752 0.805 0.744 0.824  13.74
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9979
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```
                Response Ratio = 0.00000 + 0.80766 *A + -0.02731 *A^2

 83)P 1,1,2,2-Tetrachlo 0.953 0.787 0.680 0.730 0.667 0.677 0.693 0.741  13.79
             ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9994
                Response Ratio = 0.00000 + 0.67635 *A + 0.00667 *A^2

 84)  1,3,5-Trimethylbe 3.087 2.710 3.084 3.078 2.860 2.936 2.984 2.963   4.75
 85)  2-Chlorotoluene   3.053 2.820 2.750 2.819 2.672 2.726 2.711 2.793   4.55
 86)  trans-1,4-Dichlor 0.092 0.215 0.222 0.215 0.224 0.236 0.212 0.202  24.33
             ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9970
                Response Ratio = 0.00000 + 0.24228 *A + -0.01351 *A^2

 87)  1,2,3-Trichloropr 0.295 0.241 0.197 0.212 0.207 0.193 0.204 0.221  16.31
             ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9984
                Response Ratio = 0.00000 + 0.19993 *A + 0.00082 *A^2

 88)  Cyclohexanone     0.045 0.015 0.014 0.018 0.018 0.016 0.017 0.020  53.03
             ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9977
                Response Ratio = 0.00000 + 0.01661 *A + 0.00007 *A^2

 89)  4-Chlorotoluene   3.173 2.691 2.668 2.699 2.476 2.552 2.325 2.655  10.01
             ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9987
                Response Ratio = 0.00000 + 2.77661 *A + -0.21636 *A^2

 90)  a-Methyl Styrene  1.087 1.279 1.640 1.395 1.493 1.497 1.520 1.416  12.92
 91)  tert-Butylbenzene 2.024 1.739 1.687 1.749 1.645 1.700 1.528 1.725   8.77
 92)  1,2,4-Trimethylbe 3.404 2.994 3.074 2.984 2.880 2.930 2.685 2.993   7.30
 93)  Pentachloroethane 0.436 0.426 0.519 0.434 0.456 0.458 0.431 0.451   7.18
 94)  sec-Butylbenzene  3.837 3.468 3.580 3.619 3.413 3.473 3.422 3.544   4.24
 95)  4-Isopropyltoluen 3.383 2.969 3.008 3.079 2.902 2.951 2.720 3.002   6.72
 96)  1,3-Dichlorobenze 2.057 1.472 1.418 1.472 1.379 1.404 1.338 1.506  16.45
             ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9996
                Response Ratio = 0.00000 + 1.47589 *A + -0.06648 *A^2

 97)  1,4-Dichlorobenze 2.240 1.519 1.497 1.455 1.367 1.449 1.332 1.551  20.03
             ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9983
                Response Ratio = 0.00000 + 1.51012 *A + -0.08220 *A^2

 98)  n-Butylbenzene    1.733 1.656 1.695 1.779 1.717 1.763 1.659 1.715   2.80
 99)  Benzyl Chloride   0.309 0.219 0.207 0.236 0.252 0.249 0.274 0.249  13.75
100)  1,2-Dichlorobenze 2.085 1.440 1.364 1.397 1.314 1.353 1.358 1.473  18.50
             ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9998
                Response Ratio = 0.00000 + 1.34041 *A + 0.00824 *A^2

101)  1,2-Dibromo-3-Chl 0.103 0.125 0.121 0.125 0.117 0.115 0.123 0.118   6.46
102)  Hexachlorobutadie 0.599 0.590 0.547 0.597 0.540 0.580 0.617 0.581   4.83
103)  1,2,4-Trichlorobe 1.290 1.079 1.057 1.046 0.980 1.004 1.089 1.078   9.39
104)  Naphthalene       1.981 1.550 1.578 1.692 1.664 1.663 1.953 1.726  10.00
             ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9974
                Response Ratio = 0.00000 + 1.39204 *A + 0.26638 *A^2

105)  1,2,3-Trichlorobe 1.133 0.810 0.832 0.833 0.824 0.836 0.905 0.882  13.04
             ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9995
                Response Ratio = 0.00000 + 0.76057 *A + 0.06925 *A^2


106) I   Tert Butyl Alcohol-d1 ----------------ISTD---------------------
107)  Ethanol                 0.117 0.151 0.120 0.134 0.136 0.125 0.130   9.69
108)  acrolein          1.998 2.788 3.036 3.014 2.479 2.603 2.561 2.640  13.52
             ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9976
```

```
                Response Ratio = 0.00000 + 2.73481 *A + -0.09087 *A^2

109)  Tert Butyl Alcoho 1.943 1.641 1.281 1.536 1.418 1.395 1.417 1.519  14.41
              ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9992
                Response Ratio = 0.00000 + 1.43641 *A + -0.00649 *A^2

110)  tert Amyl alcohol 1.241 1.078 0.992 1.203 1.082 1.102 1.110 1.115   7.45
111)  Isobutyl alcohol  0.238 0.351 0.470 0.443 0.421 0.428 0.422 0.396  19.83
              ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9996
                Response Ratio = 0.00000 + 0.43635 *A + -0.00182 *A^2

112)  1,4-Dioxane       0.260 0.144 0.127 0.127 0.131 0.123 0.125 0.148  33.69
              ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9995
                Response Ratio = 0.00000 + 0.12918 *A + -0.00065 *A^2

113)  3,3-Dimethyl-1-bu 0.774 0.823 0.816 1.124 1.035 1.056 1.143 0.967  16.29
              ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9985
                Response Ratio = 0.00000 + 0.96164 *A + 0.00871 *A^2

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

           MSJ062116a.M        Wed Jun 22 07:53:15 2016
```

Initial Calibration Verification

Job Number: FA34891 **Sample:** VJ5340-ICV5340
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** J0977360.D
Project: BMSMC, Building 5 Area, Humacao, PR

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\data\062116\J0977360.D          Vial: 1
Acq On    : 21 Jun 2016  11:51 am                    Operator: darshnap
Sample    : icv5340-5                                Inst    : MSVOA6
Misc      : MS34179,vj5340,,,,,                      Multiplr: 1.00
MS Integration Params: RTEINT.P

Method       : C:\msdchem\1\methods\MSJ062116a.M (RTE Integrator)
Title        : SW-846 Method 5030B/8260B & EPA 624
Last Update  : Wed Jun 22 07:48:34 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	7.74
		Amount	Calc.	%Drift			
2	Dichlorodifluoromethane	40.000	37.005	7.5	89	-0.01	2.67
3 P	Chloromethane	40.000	37.784	5.5	92	0.00	2.89
4 C	Vinyl Chloride	40.000	37.167	7.1	91	0.00	3.03
5	1,3-Butadiene		----------NA----------				
6	Bromomethane	40.000	33.805	15.5	85	-0.01	3.44
7	Chloroethane	40.000	37.269	6.8	94	0.00	3.60
8	Trichlorofluoromethane	40.000	39.007	2.5	96	0.04	3.81
		AvgRF	CCRF	%Dev			
9	Ethyl Ether	0.238	0.221	7.1	102	0.00	4.11
10	1,2-Dichlorotrifluoroetha	0.305	0.358	-17.4	129	0.01	4.34
		Amount	Calc.	%Drift			
11 C	1,1-Dichloroethene	40.000	39.755	0.6	110	-0.01	4.38
12	Freon 113	40.000	40.307	-0.8	110	0.00	4.44
		AvgRF	CCRF	%Dev			
13	Carbon Disulfide	0.837	0.904	-8.0	119	-0.01	4.46
14	Iodomethane	0.431	0.395	8.4	106	-0.01	4.57
15	Allyl chloride	0.385	0.356	7.5	99	0.00	4.91
16	Methylene Chloride	0.402	0.403	-0.2	114	0.00	5.03
17	Acetone	0.017	0.018	-5.9	114	0.00	5.05
18	Methyl acetate	0.030	0.031	-3.3	115	0.00	5.18
19	trans-1,2-Dichloroethene	0.373	0.424	-13.7	120	-0.01	5.21
20	Hexane	0.250	0.267	-6.8	117	0.00	5.28
21	Methyl Tert Butyl Ether	0.808	0.739	8.5	105	0.00	5.32
		Amount	Calc.	%Drift			
22	Acetonitrile	400.000	359.577	10.1	98	0.00	5.57
		AvgRF	CCRF	%Dev			
23	Di-isopropyl ether	0.969	0.932	3.8	107	0.00	5.71
		Amount	Calc.	%Drift			
24	Chloroprene	40.000	34.930	12.7	93	0.00	5.86
		AvgRF	CCRF	%Dev			
25 P	1,1-Dichloroethane	0.503	0.538	-7.0	117	0.00	5.88

Initial Calibration Verification

Job Number: FA34891 **Sample:** VJ5340-ICV5340
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** J0977360.D
Project: BMSMC, Building 5 Area, Humacao, PR

			Amount	Calc.	%Drift			
26		Acrylonitrile	200.000	205.538	-2.8	110	0.00	5.91
			AvgRF	CCRF	%Dev			
27		ETBE	1.014	0.938	7.5	103	0.00	6.10
28		Vinyl acetate	0.533	0.462	13.3	90	0.00	6.09
29		cis-1,2-Dichloroethene	0.307	0.306	0.3	112	0.00	6.46
30		2,2-Dichloropropane	0.425	0.458	-7.8	117	0.00	6.59
31		Bromochloromethane	0.135	0.132	2.2	111	0.00	6.67
32		Cyclohexane	0.472	0.489	-3.6	110	0.00	6.71
			Amount	Calc.	%Drift			
33	C	Chloroform	40.000	38.709	3.2	110	0.00	6.72
			AvgRF	CCRF	%Dev			
34		Ethyl acetate	0.194	0.190	2.1	104	0.00	6.79
			Amount	Calc.	%Drift			
35		Tetrahydrofuran	40.000	36.021	9.9	101	0.00	6.91
			AvgRF	CCRF	%Dev			
36	S	Dibromofluoromethane	0.263	0.267	-1.5	112	0.00	6.91
37		Carbon Tetrachloride	0.411	0.428	-4.1	111	0.00	6.92
38		1,1,1-Trichloroethane	0.505	0.498	1.4	106	0.00	6.98
39		2-Butanone	0.076	0.080	-5.3	107	0.00	7.01
40		1,1-Dichloropropene	0.368	0.364	1.1	107	0.00	7.09
			Amount	Calc.	%Drift			
41		tert-Butyl Formate	400.000	445.905	-11.5	119	0.00	7.18
			AvgRF	CCRF	%Dev			
42		Propionitrile	0.027	0.027	0.0	114	0.00	7.32
43		Methacrylonitrile	0.123	0.123	0.0	104	0.00	7.35
			Amount	Calc.	%Drift			
44		Benzene	40.000	40.426	-1.1	112	0.00	7.34
			AvgRF	CCRF	%Dev			
45		TAME	0.812	0.726	10.6	104	0.00	7.42
46	S	1,2-Dichloroethane-d4	0.384	0.392	-2.1	106	0.00	7.46
			Amount	Calc.	%Drift			
47		1,2-Dichloroethane	40.000	37.582	6.0	106	0.00	7.53
			AvgRF	CCRF	%Dev			
48		Trichloroethene	0.278	0.277	0.4	110	0.00	7.92
49		Methylcyclohexane	0.484	0.481	0.6	113	0.00	7.94
			Amount	Calc.	%Drift			
50		Dibromomethane	40.000	41.369	-3.4	118	0.00	8.35
			AvgRF	CCRF	%Dev			
51	C	1,2-Dichloropropane	0.271	0.275	-1.5	112	0.00	8.43
52		Bromodichloromethane	0.416	0.388	6.7	102	0.00	8.48
			Amount	Calc.	%Drift			
53		Methyl methacrylate	40.000	41.882	-4.7	112	0.00	8.58
			AvgRF	CCRF	%Dev			
54		2-Chloroethyl vinyl ether	0.145	0.154	-6.2	113	0.00	8.99

Initial Calibration Verification

Job Number: FA34891 **Sample:** VJ5340-ICV5340
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** J0977360.D
Project: BMSMC, Building 5 Area, Humacao, PR

55		cis-1,3-Dichloropropene	0.449	0.429	4.5	111	0.00	9.10
56	I	Chlorobenzene-d5	1.000	1.000	0.0	108	0.00	10.83
57	S	Toluene-d8	1.322	1.342	-1.5	112	0.00	9.29
		----------	Amount	Calc.	%Drift	----------		
58	C	Toluene	40.000	38.551	3.6	110	0.00	9.34
		----------	AvgRF	CCRF	%Dev	----------		
59		2-Nitropropane	0.089	0.079	11.2	100	0.00	9.54
60		4-Methyl-2-pentanone	0.248	0.256	-3.2	105	0.00	9.66
61		trans-1,3-Dichloropropene	0.528	0.564	-6.8	120	0.00	9.72
62		Tetrachloroethene	0.384	0.363	5.5	103	0.00	9.74
63		Ethyl methacrylate	0.392	0.340	13.3	95	0.00	9.83
		----------	Amount	Calc.	%Drift	----------		
64		1,1,2-Trichloroethane	40.000	39.081	2.3	114	0.00	9.88
		----------	AvgRF	CCRF	%Dev	----------		
65		Dibromochloromethane	0.375	0.333	11.2	103	0.00	10.08
		----------	Amount	Calc.	%Drift	----------		
66		1,3-Dichloropropane	40.000	37.176	7.1	106	0.00	10.17
67		1,2-Dibromoethane	40.000	39.926	0.2	111	0.00	10.35
		----------	AvgRF	CCRF	%Dev	----------		
68		2-hexanone	0.168	0.180	-7.1	110	0.00	10.48
69		1-Chlorohexane	0.498	0.502	-0.8	109	0.00	10.78
70	C	Ethylbenzene	1.866	1.804	3.3	111	0.00	10.85
		----------	Amount	Calc.	%Drift	----------		
71	P	Chlorobenzene	40.000	39.454	1.4	109	0.00	10.85
72		1,1,1,2-Tetrachloroethane	40.000	43.813	-9.5	124	0.00	10.90
		----------	AvgRF	CCRF	%Dev	----------		
73		m,p-Xylene	1.442	1.409	2.3	111	0.00	10.98
		----------	Amount	Calc.	%Drift	----------		
74		o-Xylene	40.000	38.440	3.9	109	0.00	11.42
		----------	AvgRF	CCRF	%Dev	----------		
75		Styrene	1.126	1.071	4.9	108	0.00	11.47
76	P	Bromoform	0.218	0.202	7.3	107	0.00	11.54
77		Isopropylbenzene	1.751	1.788	-2.1	116	0.00	11.73
78	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	108	0.00	13.19
79	S	4-Bromofluorobenzene	0.961	0.946	1.6	105	0.00	12.04
		----------	Amount	Calc.	%Drift	----------		
80		cis-1,4-Dichloro-2-butene	40.000	34.319	14.2	92	0.00	12.07
		----------	AvgRF	CCRF	%Dev	----------		
81		n-Propylbenzene	3.987	4.066	-2.0	116	0.00	12.15
		----------	Amount	Calc.	%Drift	----------		
82		Bromobenzene	40.000	38.476	3.8	109	0.00	12.17
83	P	1,1,2,2-Tetrachloroethane	40.000	39.686	0.8	110	0.00	12.21
		----------	AvgRF	CCRF	%Dev	----------		
84		1,3,5-Trimethylbenzene	2.963	2.867	3.2	109	0.00	12.33

Initial Calibration Verification

Job Number: FA34891 **Sample:** VJ5340-ICV5340
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** J0977360.D
Project: BMSMC, Building 5 Area, Humacao, PR

85	2-Chlorotoluene	2.793	2.693	3.6	109	0.00	12.34
	----------	Amount	Calc.	%Drift		----------	
86	trans-1,4-Dichloro-2-Bute	40.000	37.212	7.0	104	0.00	12.39
87	1,2,3-Trichloropropane	40.000	39.537	1.2	104	0.00	12.36
88	Cyclohexanone	200.000	256.081	-28.0#	134	0.00	12.44
89	4-Chlorotoluene	40.000	38.784	3.0	111	0.00	12.50
	----------	AvgRF	CCRF	%Dev		----------	
90	a-Methyl Styrene	1.416	0.021	98.5#	2#	0.08	12.68
91	tert-Butylbenzene	1.725	1.684	2.4	111	0.00	12.67
92	1,2,4-Trimethylbenzene	2.993	2.874	4.0	108	0.00	12.74
93	Pentachloroethane	0.451	0.493	-9.3	117	0.00	12.72
94	sec-Butylbenzene	3.544	3.656	-3.2	116	0.00	12.86
95	4-Isopropyltoluene	3.002	3.018	-0.5	113	0.00	12.99
	----------	Amount	Calc.	%Drift		----------	
96	1,3-Dichlorobenzene	40.000	40.271	-0.7	113	0.00	13.12
97	1,4-Dichlorobenzene	40.000	39.320	1.7	113	0.00	13.20
	----------	AvgRF	CCRF	%Dev		----------	
98	n-Butylbenzene	1.715	1.760	-2.6	111	0.00	13.42
99	Benzyl Chloride	0.249	0.243	2.4	105	0.00	13.43
	----------	Amount	Calc.	%Drift		----------	
100	1,2-Dichlorobenzene	40.000	38.978	2.6	108	0.00	13.63
	----------	AvgRF	CCRF	%Dev		----------	
101	1,2-Dibromo-3-Chloropropa	0.118	0.112	5.1	104	0.00	14.37
102	Hexachlorobutadiene	0.581	0.584	-0.5	117	0.00	14.91
103	1,2,4-Trichlorobenzene	1.078	0.991	8.1	110	0.00	14.96
	----------	Amount	Calc.	%Drift		----------	
104	Naphthalene	40.000	42.726	-6.8	113	0.00	15.24
105	1,2,3-Trichlorobenzene	40.000	39.844	0.4	107	0.00	15.41
	----------	AvgRF	CCRF	%Dev		----------	
106 I	Tert Butyl Alcohol-d10	1.000	1.000	0.0	110	-0.01	5.28
107	Ethanol	0.130	0.132	-1.5	109	0.00	4.27
	----------	Amount	Calc.	%Drift		----------	
108	acrolein	200.000	182.258	8.9	108	0.00	4.74
109	Tert Butyl Alcohol	400.000	352.318	11.9	98	0.00	5.37
	----------	AvgRF	CCRF	%Dev		----------	
110	tert Amyl alcohol	1.115	0.925	17.0	94	0.00	7.56
	----------	Amount	Calc.	%Drift		----------	
111	Isobutyl alcohol	800.000	740.909	7.4	104	0.00	7.44
112	1,4-Dioxane	800.000	724.635	9.4	97	0.00	8.66
113	3,3-Dimethyl-1-butanol	2000.000	2052.828	-2.6	113	0.00	10.42

(#) = Out of Range SPCC's out = 0 CCC's out = 0
J0977356.D MSJ062116a.M Wed Jun 22 07:52:59 2016

6.7.2 6

Continuing Calibration Summary

Job Number: FA34891 **Sample:** VJ5357-CC5340
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** J0977716.D
Project: BMSMC, Building 5 Area, Humacao, PR

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\data\063016\J0977716.D          Vial: 1
Acq On    : 30 Jun 2016   9:13 am                    Operator: darshnap
Sample    : cc5340-5                                 Inst    : MSVOA6
Misc      : MS34260,vj5357,,,,,                      Multiplr: 1.00
MS Integration Params: RTEINT.P

Method       : C:\msdchem\1\methods\MSJ062116a.M (RTE Integrator)
Title        : SW-846 Method 5030B/8260B & EPA 624
Last Update  : Tue Jun 21 11:35:53 2016
Response via : Multiple Level Calibration

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

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1 I	Fluorobenzene	1.000	1.000	0.0	107	0.00	7.74
		Amount	Calc.	%Drift			
2	Dichlorodifluoromethane	40.000	23.921	40.2#	58	0.00	2.67
3 P	Chloromethane	40.000	36.055	9.9	87	0.00	2.89
4 C	Vinyl Chloride	40.000	36.798	8.0	90	0.00	3.03
5	1,3-Butadiene	40.000	41.515	-3.8	111	0.00	3.03
6	Bromomethane	40.000	40.756	-1.9	100	-0.01	3.44
7	Chloroethane	40.000	37.524	6.2	93	0.00	3.60
8	Trichlorofluoromethane	40.000	33.536	16.2	82	0.00	3.77
		AvgRF	CCRF	%Dev			
9	Ethyl Ether	0.238	0.261	-9.7	119	-0.01	4.11
10	1,2-Dichlorotrifluoroetha	0.305	0.323	-5.9	115	0.02	4.35
		Amount	Calc.	%Drift			
11 C	1,1-Dichloroethene	40.000	34.024	14.9	94	-0.01	4.38
12	Freon 113	40.000	38.099	4.8	103	0.00	4.44
		AvgRF	CCRF	%Dev			
13	Carbon Disulfide	0.837	0.869	-3.8	113	0.00	4.46
14	Iodomethane	0.431	0.416	3.5	111	0.00	4.57
15	Allyl chloride	0.385	0.341	11.4	94	0.00	4.91
16	Methylene Chloride	0.402	0.405	-0.7	113	0.00	5.03
17	Acetone	0.017	0.020	-17.6	125	0.00	5.05
18	Methyl acetate	0.030	0.034	-13.3	124	0.00	5.18
19	trans-1,2-Dichloroethene	0.373	0.367	1.6	102	0.00	5.22
20	Hexane	0.250	0.246	1.6	106	0.00	5.28
21	Methyl Tert Butyl Ether	0.808	0.740	8.4	104	0.00	5.32
		Amount	Calc.	%Drift			
22	Acetonitrile	400.000	430.821	-7.7	116	0.00	5.58
		AvgRF	CCRF	%Dev			
23	Di-isopropyl ether	0.969	0.963	0.6	109	0.00	5.71
		Amount	Calc.	%Drift			
24	Chloroprene	40.000	32.273	19.3	86	-0.01	5.85
		AvgRF	CCRF	%Dev			
25 P	1,1-Dichloroethane	0.503	0.526	-4.6	113	0.00	5.88

Continuing Calibration Summary

Job Number: FA34891 **Sample:** VJ5357-CC5340
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** J0977716.D
Project: BMSMC, Building 5 Area, Humacao, PR

			Amount	Calc.	%Drift			
26		Acrylonitrile	200.000	229.473	-14.7	121	-0.01	5.91

			AvgRF	CCRF	%Dev			
27		ETBE	1.014	0.998	1.6	109	0.00	6.11
28		Vinyl acetate	0.533	0.550	-3.2	106	0.00	6.09
29		cis-1,2-Dichloroethene	0.307	0.333	-8.5	121	0.00	6.46
30		2,2-Dichloropropane	0.425	0.381	10.4	97	0.00	6.59
31		Bromochloromethane	0.135	0.135	0.0	112	0.00	6.68
32		Cyclohexane	0.472	0.490	-3.8	109	0.00	6.72

			Amount	Calc.	%Drift			
33	C	Chloroform	40.000	38.207	4.5	107	0.00	6.72

			AvgRF	CCRF	%Dev			
34		Ethyl acetate	0.194	0.182	6.2	99	0.00	6.79

			Amount	Calc.	%Drift			
35		Tetrahydrofuran	40.000	36.715	8.2	101	0.00	6.91

			AvgRF	CCRF	%Dev			
36	S	Dibromofluoromethane	0.263	0.243	7.6	100	0.00	6.91
37		Carbon Tetrachloride	0.411	0.335	18.5	86	0.00	6.92
38		1,1,1-Trichloroethane	0.505	0.411	18.6	87	0.00	6.98
39		2-Butanone	0.076	0.076	0.0	100	0.00	7.01
40		1,1-Dichloropropene	0.368	0.326	11.4	95	0.00	7.09

			Amount	Calc.	%Drift			
41		tert-Butyl Formate	400.000	337.524	15.6	89	0.00	7.18

			AvgRF	CCRF	%Dev			
42		Propionitrile	0.027	0.028	-3.7	114	0.00	7.32
43		Methacrylonitrile	0.123	0.113	8.1	95	0.00	7.34

			Amount	Calc.	%Drift			
44		Benzene	40.000	42.240	-5.6	116	0.00	7.34

			AvgRF	CCRF	%Dev			
45		TAME	0.812	0.733	9.7	104	0.00	7.42
46	S	1,2-Dichloroethane-d4	0.384	0.325	15.4	87	0.00	7.46

			Amount	Calc.	%Drift			
47		1,2-Dichloroethane	40.000	33.166	17.1	93	0.00	7.53

			AvgRF	CCRF	%Dev			
48		Trichloroethene	0.278	0.254	8.6	100	0.00	7.92
49		Methylcyclohexane	0.484	0.452	6.6	105	0.00	7.94

			Amount	Calc.	%Drift			
50		Dibromomethane	40.000	40.118	-0.3	113	0.00	8.34

			AvgRF	CCRF	%Dev			
51	C	1,2-Dichloropropane	0.271	0.287	-5.9	115	0.00	8.44
52		Bromodichloromethane	0.416	0.341	18.0	89	0.00	8.48

			Amount	Calc.	%Drift			
53		Methyl methacrylate	40.000	32.386	19.0	86	0.00	8.57

			AvgRF	CCRF	%Dev			
54		2-Chloroethyl vinyl ether	0.145	0.147	-1.4	107	0.00	8.99

Continuing Calibration Summary

Job Number: FA34891 **Sample:** VJ5357-CC5340
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** J0977716.D
Project: BMSMC, Building 5 Area, Humacao, PR

55		cis-1,3-Dichloropropene	0.449	0.402	10.5	103	0.00	9.09
56	I	Chlorobenzene-d5	1.000	1.000	0.0	100	0.00	10.83
57	S	Toluene-d8	1.322	1.343	-1.6	104	0.00	9.28
		----------	Amount	Calc.	%Drift		----------	
58	C	Toluene	40.000	39.863	0.3	105	0.00	9.34
		----------	AvgRF	CCRF	%Dev		----------	
59		2-Nitropropane	0.089	0.064	28.1#	75	0.00	9.54
60		4-Methyl-2-pentanone	0.248	0.260	-4.8	99	0.00	9.66
61		trans-1,3-Dichloropropene	0.528	0.469	11.2	93	0.00	9.72
62		Tetrachloroethene	0.384	0.323	15.9	85	0.00	9.74
63		Ethyl methacrylate	0.392	0.394	-0.5	102	0.00	9.83
		----------	Amount	Calc.	%Drift		----------	
64		1,1,2-Trichloroethane	40.000	42.674	-6.7	116	0.00	9.89
		----------	AvgRF	CCRF	%Dev		----------	
65		Dibromochloromethane	0.375	0.334	10.9	96	0.00	10.08
		----------	Amount	Calc.	%Drift		----------	
66		1,3-Dichloropropane	40.000	40.699	-1.7	108	0.00	10.17
67		1,2-Dibromoethane	40.000	38.331	4.2	99	0.00	10.34
		----------	AvgRF	CCRF	%Dev		----------	
68		2-hexanone	0.168	0.181	-7.7	103	0.00	10.47
69		1-Chlorohexane	0.498	0.454	8.8	92	0.00	10.78
70	C	Ethylbenzene	1.866	1.794	3.9	102	0.00	10.85
		----------	Amount	Calc.	%Drift		----------	
71	P	Chlorobenzene	40.000	41.625	-4.1	106	0.00	10.85
72		1,1,1,2-Tetrachloroethane	40.000	37.830	5.4	100	0.00	10.89
		----------	AvgRF	CCRF	%Dev		----------	
73		m,p-Xylene	1.442	1.352	6.2	99	0.00	10.98
		----------	Amount	Calc.	%Drift		----------	
74		o-Xylene	40.000	37.123	7.2	98	0.00	11.42
		----------	AvgRF	CCRF	%Dev		----------	
75		Styrene	1.126	1.078	4.3	101	0.00	11.47
76	P	Bromoform	0.218	0.177	18.8	87	0.00	11.54
77		Isopropylbenzene	1.751	1.627	7.1	98	0.00	11.73
78	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	93	0.00	13.19
79	S	4-Bromofluorobenzene	0.961	0.969	-0.8	92	0.00	12.04
		----------	Amount	Calc.	%Drift		----------	
80		cis-1,4-Dichloro-2-butene	40.000	38.597	3.5	89	0.00	12.07
		----------	AvgRF	CCRF	%Dev		----------	
81		n-Propylbenzene	3.987	4.127	-3.5	101	0.00	12.15
		----------	Amount	Calc.	%Drift		----------	
82		Bromobenzene	40.000	39.933	0.2	97	0.00	12.17
83	P	1,1,2,2-Tetrachloroethane	40.000	47.918	-19.8	114	0.00	12.21
		----------	AvgRF	CCRF	%Dev		----------	
84		1,3,5-Trimethylbenzene	2.963	2.997	-1.1	97	0.00	12.33

Continuing Calibration Summary

Job Number: FA34891 **Sample:** VJ5357-CC5340
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** J0977716.D
Project: BMSMC, Building 5 Area, Humacao, PR

85	2-Chlorotoluene	2.793	2.874	-2.9	100	0.00	12.33
	----------	Amount	Calc.	%Drift		----------	
86	trans-1,4-Dichloro-2-Bute	40.000	36.885	7.8	88	0.00	12.38
87	1,2,3-Trichloropropane	40.000	40.338	-0.8	91	0.00	12.36
88	Cyclohexanone	200.000	233.204	-16.6	104	0.00	12.43
89	4-Chlorotoluene	40.000	40.859	-2.1	99	0.00	12.50
	----------	AvgRF	CCRF	%Dev		----------	
90	a-Methyl Styrene	1.416	1.615	-14.1	100	0.00	12.59
91	tert-Butylbenzene	1.725	1.659	3.8	93	0.00	12.67
92	1,2,4-Trimethylbenzene	2.993	3.129	-4.5	101	0.00	12.74
93	Pentachloroethane	0.451	0.499	-10.6	101	0.00	12.72
94	sec-Butylbenzene	3.544	3.635	-2.6	99	0.00	12.86
95	4-Isopropyltoluene	3.002	3.038	-1.2	97	0.00	12.99
	----------	Amount	Calc.	%Drift		----------	
96	1,3-Dichlorobenzene	40.000	43.078	-7.7	103	0.00	13.12
97	1,4-Dichlorobenzene	40.000	44.641	-11.6	109	0.00	13.20
	----------	AvgRF	CCRF	%Dev		----------	
98	n-Butylbenzene	1.715	1.847	-7.7	100	0.00	13.42
99	Benzyl Chloride	0.249	0.268	-7.6	99	0.00	13.43
	----------	Amount	Calc.	%Drift		----------	
100	1,2-Dichlorobenzene	40.000	44.331	-10.8	105	0.00	13.63
	----------	AvgRF	CCRF	%Dev		----------	
101	1,2-Dibromo-3-Chloropropa	0.118	0.109	7.6	87	0.00	14.37
102	Hexachlorobutadiene	0.581	0.451	22.4#	77	0.00	14.91
103	1,2,4-Trichlorobenzene	1.078	0.942	12.6	89	0.00	14.96
	----------	Amount	Calc.	%Drift		----------	
104	Naphthalene	40.000	43.188	-8.0	98	0.00	15.24
105	1,2,3-Trichlorobenzene	40.000	37.067	7.3	85	0.00	15.41
	----------	AvgRF	CCRF	%Dev		----------	
106 I	Tert Butyl Alcohol-d10	1.000	1.000	0.0	103	-0.01	5.28
107	Ethanol	0.130	0.159	-22.3#	123	0.02	4.30
	----------	Amount	Calc.	%Drift		----------	
108	acrolein	200.000	220.916	-10.5	122	0.00	4.74
109	Tert Butyl Alcohol	400.000	361.473	9.6	94	0.00	5.37
	----------	AvgRF	CCRF	%Dev		----------	
110	tert Amyl alcohol	1.115	0.912	18.2	87	0.00	7.56
	----------	Amount	Calc.	%Drift		----------	
111	Isobutyl alcohol	800.000	730.572	8.7	96	0.00	7.43
112	1,4-Dioxane	800.000	833.998	-4.2	105	0.00	8.66
113	3,3-Dimethyl-1-butanol	2000.000	2216.930	-10.8	115	0.00	10.42

(#) = Out of Range SPCC's out = 0 CCC's out = 0
J0977356.D MSJ062116a.M Fri Jul 01 08:07:32 2016

6.7.3

6

Continuing Calibration Summary

Job Number: FA34891 **Sample:** VJ5357-ECC5340
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** J0977743.D
Project: BMSMC, Building 5 Area, Humacao, PR

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\data\063016\J0977743.D          Vial: 23
Acq On    : 30 Jun 2016   8:05 pm                    Operator: darshnap
Sample    : ecc5340-5                                Inst    : MSVOA6
Misc      : MS34274,vj5357,,,,,                      Multiplr: 1.00
MS Integration Params: RTEINT.P

Method       : C:\msdchem\1\methods\MSJ062116a.M (RTE Integrator)
Title        : SW-846 Method 5030B/8260B & EPA 624
Last Update  : Tue Jun 21 11:35:53 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	109	0.00	7.74
		----------	Amount	Calc.	%Drift	----------		
2		Dichlorodifluoromethane	40.000	23.421	41.4	58	0.00	2.67
3	P	Chloromethane	40.000	30.081	24.8	75	0.00	2.89
4	C	Vinyl Chloride	40.000	33.538	16.2	84	0.00	3.03
5		1,3-Butadiene	40.000	42.029	-5.1	115	0.00	3.03
6		Bromomethane	40.000	36.362	9.1	92	0.00	3.45
7		Chloroethane	40.000	36.800	8.0	94	0.00	3.60
8		Trichlorofluoromethane	40.000	35.014	12.5	88	-0.01	3.76
		----------	AvgRF	CCRF	%Dev	----------		
9		Ethyl Ether	0.238	0.202	15.1	94	-0.02	4.10
10		1,2-Dichlorotrifluoroetha	0.305	0.274	10.2	100	0.00	4.33
		----------	Amount	Calc.	%Drift	----------		
11	C	1,1-Dichloroethene	40.000	31.630	20.9#	90	0.00	4.38
12		Freon 113	40.000	33.577	16.1	94	0.00	4.44
		----------	AvgRF	CCRF	%Dev	----------		
13		Carbon Disulfide	0.837	0.745	11.0	99	0.00	4.46
14		Iodomethane	0.431	0.343	20.4	93	0.00	4.57
15		Allyl chloride	0.385	0.332	13.8	93	0.00	4.91
16		Methylene Chloride	0.402	0.366	9.0	105	0.00	5.04
17		Acetone	0.017	0.016	5.9	102	0.00	5.05
18		Methyl acetate	0.030	0.029	3.3	107	0.00	5.18
19		trans-1,2-Dichloroethene	0.373	0.351	5.9	100	0.00	5.22
20		Hexane	0.250	0.258	-3.2	114	0.00	5.28
21		Methyl Tert Butyl Ether	0.808	0.616	23.8	89	-0.01	5.31
		----------	Amount	Calc.	%Drift	----------		
22		Acetonitrile	400.000	379.812	5.0	104	0.00	5.58
		----------	AvgRF	CCRF	%Dev	----------		
23		Di-isopropyl ether	0.969	0.832	14.1	96	0.00	5.71
		----------	Amount	Calc.	%Drift	----------		
24		Chloroprene	40.000	35.656	10.9	96	-0.01	5.85
		----------	AvgRF	CCRF	%Dev	----------		
25	P	1,1-Dichloroethane	0.503	0.479	4.8	105	-0.01	5.88

Continuing Calibration Summary

Job Number: FA34891 **Sample:** VJ5357-ECC5340
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** J0977743.D
Project: BMSMC, Building 5 Area, Humacao, PR

			Amount	Calc.	%Drift			
26		Acrylonitrile	200.000	175.943	12.0	95	0.00	5.91
			AvgRF	CCRF	%Dev			
27		ETBE	1.014	0.804	20.7	90	0.00	6.10
28		Vinyl acetate	0.533	0.409	23.3	80	0.00	6.09
29		cis-1,2-Dichloroethene	0.307	0.282	8.1	105	0.00	6.46
30		2,2-Dichloropropane	0.425	0.327	23.1	85	0.00	6.59
31		Bromochloromethane	0.135	0.127	5.9	108	0.00	6.68
32		Cyclohexane	0.472	0.484	-2.5	110	0.00	6.72
			Amount	Calc.	%Drift			
33	C	Chloroform	40.000	34.635	13.4	100	0.00	6.72
			AvgRF	CCRF	%Dev			
34		Ethyl acetate	0.194	0.158	18.6	88	0.00	6.79
			Amount	Calc.	%Drift			
35		Tetrahydrofuran	40.000	33.399	16.5	94	-0.01	6.90
			AvgRF	CCRF	%Dev			
36	S	Dibromofluoromethane	0.263	0.241	8.4	102	0.00	6.91
37		Carbon Tetrachloride	0.411	0.355	13.6	93	0.00	6.92
38		1,1,1-Trichloroethane	0.505	0.407	19.4	88	0.00	6.98
39		2-Butanone	0.076	0.066	13.2	88	0.00	7.01
40		1,1-Dichloropropene	0.368	0.373	-1.4	111	0.00	7.09
			Amount	Calc.	%Drift			
41		tert-Butyl Formate	400.000	264.107	34.0	70	0.00	7.18
			AvgRF	CCRF	%Dev			
42		Propionitrile	0.027	0.027	0.0	115	0.00	7.31
43		Methacrylonitrile	0.123	0.113	8.1	97	0.00	7.35
			Amount	Calc.	%Drift			
44		Benzene	40.000	39.846	0.4	112	0.00	7.34
			AvgRF	CCRF	%Dev			
45		TAME	0.812	0.724	10.8	105	0.00	7.42
46	S	1,2-Dichloroethane-d4	0.384	0.324	15.6	89	0.00	7.46
			Amount	Calc.	%Drift			
47		1,2-Dichloroethane	40.000	33.468	16.3	96	0.00	7.53
			AvgRF	CCRF	%Dev			
48		Trichloroethene	0.278	0.274	1.4	110	0.00	7.92
49		Methylcyclohexane	0.484	0.521	-7.6	123	0.00	7.94
			Amount	Calc.	%Drift			
50		Dibromomethane	40.000	35.046	12.4	101	0.00	8.34
			AvgRF	CCRF	%Dev			
51	C	1,2-Dichloropropane	0.271	0.255	5.9	105	0.00	8.43
52		Bromodichloromethane	0.416	0.326	21.6	87	0.00	8.48
			Amount	Calc.	%Drift			
53		Methyl methacrylate	40.000	33.449	16.4	91	0.00	8.57
			AvgRF	CCRF	%Dev			
54		2-Chloroethyl vinyl ether	0.145	0.150	-3.4	111	0.00	8.99

Continuing Calibration Summary

Job Number: FA34891 **Sample:** VJ5357-ECC5340
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** J0977743.D
Project: BMSMC, Building 5 Area, Humacao, PR

55		cis-1,3-Dichloropropene	0.449	0.411	8.5	108	0.00	9.10
56	I	Chlorobenzene-d5	1.000	1.000	0.0	98	0.00	10.83
57	S	Toluene-d8	1.322	1.530	-15.7	115	0.00	9.29
		----------	Amount	Calc.	%Drift	----------		
58	C	Toluene	40.000	46.409	-16.0	119	0.00	9.34
		----------	AvgRF	CCRF	%Dev	----------		
59		2-Nitropropane	0.089	0.062	30.3	72	0.00	9.54
60		4-Methyl-2-pentanone	0.248	0.261	-5.2	97	0.00	9.66
61		trans-1,3-Dichloropropene	0.528	0.467	11.6	90	0.00	9.73
62		Tetrachloroethene	0.384	0.460	-19.8	117	0.00	9.74
63		Ethyl methacrylate	0.392	0.391	0.3	99	0.00	9.83
		----------	Amount	Calc.	%Drift	----------		
64		1,1,2-Trichloroethane	40.000	39.872	0.3	105	0.00	9.88
		----------	AvgRF	CCRF	%Dev	----------		
65		Dibromochloromethane	0.375	0.328	12.5	91	0.00	10.08
		----------	Amount	Calc.	%Drift	----------		
66		1,3-Dichloropropane	40.000	36.868	7.8	95	0.00	10.17
67		1,2-Dibromoethane	40.000	41.811	-4.5	105	0.00	10.35
		----------	AvgRF	CCRF	%Dev	----------		
68		2-hexanone	0.168	0.170	-1.2	94	0.00	10.47
69		1-Chlorohexane	0.498	0.567	-13.9	112	0.00	10.78
70	C	Ethylbenzene	1.866	1.910	-2.4	106	0.00	10.85
		----------	Amount	Calc.	%Drift	----------		
71	P	Chlorobenzene	40.000	41.761	-4.4	104	0.00	10.85
72		1,1,1,2-Tetrachloroethane	40.000	40.788	-2.0	104	0.00	10.89
		----------	AvgRF	CCRF	%Dev	----------		
73		m,p-Xylene	1.442	1.449	-0.5	103	0.00	10.98
		----------	Amount	Calc.	%Drift	----------		
74		o-Xylene	40.000	41.528	-3.8	106	0.00	11.42
		----------	AvgRF	CCRF	%Dev	----------		
75		Styrene	1.126	1.204	-6.9	110	0.00	11.47
76	P	Bromoform	0.218	0.166	23.9	79	0.00	11.54
77		Isopropylbenzene	1.751	1.738	0.7	102	0.00	11.73
78	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	90	0.00	13.19
79	S	4-Bromofluorobenzene	0.961	1.043	-8.5	96	0.00	12.04
		----------	Amount	Calc.	%Drift	----------		
80		cis-1,4-Dichloro-2-butene	40.000	40.466	-1.2	91	0.00	12.07
		----------	AvgRF	CCRF	%Dev	----------		
81		n-Propylbenzene	3.987	4.913	-23.2	116	0.00	12.15
		----------	Amount	Calc.	%Drift	----------		
82		Bromobenzene	40.000	41.237	-3.1	97	0.00	12.17
83	P	1,1,2,2-Tetrachloroethane	40.000	50.075	-25.2	115	0.00	12.21
		----------	AvgRF	CCRF	%Dev	----------		
84		1,3,5-Trimethylbenzene	2.963	3.249	-9.7	102	0.00	12.33

Continuing Calibration Summary

Job Number: FA34891 **Sample:** VJ5357-ECC5340
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** J0977743.D
Project: BMSMC, Building 5 Area, Humacao, PR

85	2-Chlorotoluene	2.793	3.146	-12.6	106	0.00	12.33
	----------	Amount	Calc.	%Drift		----------	
86	trans-1,4-Dichloro-2-Bute	40.000	34.493	13.8	80	0.00	12.39
87	1,2,3-Trichloropropane	40.000	42.273	-5.7	92	0.00	12.36
88	Cyclohexanone	200.000	239.449	-19.7	103	0.00	12.43
89	4-Chlorotoluene	40.000	42.879	-7.2	101	0.00	12.50
	----------	AvgRF	CCRF	%Dev		----------	
90	a-Methyl Styrene	1.416	1.829	-29.2	110	0.00	12.59
91	tert-Butylbenzene	1.725	1.833	-6.3	100	0.00	12.67
92	1,2,4-Trimethylbenzene	2.993	3.181	-6.3	99	0.00	12.74
93	Pentachloroethane	0.451	0.341	24.4	67	0.00	12.72
94	sec-Butylbenzene	3.544	4.007	-13.1	106	0.00	12.86
95	4-Isopropyltoluene	3.002	3.232	-7.7	100	0.00	12.99
	----------	Amount	Calc.	%Drift		----------	
96	1,3-Dichlorobenzene	40.000	43.715	-9.3	101	0.00	13.12
97	1,4-Dichlorobenzene	40.000	42.694	-6.7	101	0.00	13.20
	----------	AvgRF	CCRF	%Dev		----------	
98	n-Butylbenzene	1.715	1.861	-8.5	97	0.00	13.42
99	Benzyl Chloride	0.249	0.212	14.9	76	0.00	13.43
	----------	Amount	Calc.	%Drift		----------	
100	1,2-Dichlorobenzene	40.000	44.505	-11.3	103	0.00	13.63
	----------	AvgRF	CCRF	%Dev		----------	
101	1,2-Dibromo-3-Chloropropa	0.118	0.103	12.7	79	0.00	14.37
102	Hexachlorobutadiene	0.581	0.470	19.1	78	0.00	14.91
103	1,2,4-Trichlorobenzene	1.078	0.922	14.5	85	0.00	14.96
	----------	Amount	Calc.	%Drift		----------	
104	Naphthalene	40.000	39.357	1.6	85	0.00	15.24
105	1,2,3-Trichlorobenzene	40.000	35.527	11.2	78	0.00	15.41
	----------	AvgRF	CCRF	%Dev		----------	
106 I	Tert Butyl Alcohol-d10	1.000	1.000	0.0	87	-0.02	5.27
107	Ethanol	0.130	0.124	4.6	80	-0.01	4.27
	----------	Amount	Calc.	%Drift		----------	
108	acrolein	200.000	185.695	7.2	87	0.00	4.74
109	Tert Butyl Alcohol	400.000	359.414	10.1	79	0.00	5.37
	----------	AvgRF	CCRF	%Dev		----------	
110	tert Amyl alcohol	1.115	1.057	5.2	85	0.00	7.56
	----------	Amount	Calc.	%Drift		----------	
111	Isobutyl alcohol	800.000	987.651	-23.5	109	0.00	7.44
112	1,4-Dioxane	800.000	982.238	-22.8	103	0.00	8.65
113	3,3-Dimethyl-1-butanol	2000.000	2242.658	-12.1	98	0.00	10.42

(#) = Out of Range SPCC's out = 0 CCC's out = 1
J0977356.D MSJ062116a.M Fri Jul 01 08:10:03 2016

Initial Calibration Summary

Job Number: FA34891 **Sample:** VJ5359-ICC5359
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** J0977750.D
Project: BMSMC, Building 5 Area, Humacao, PR

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                    Response Factor Report  MSVOA6

Method       : C:\msdchem\1\methods\MSJ070116a.M (RTE Integrator)
Title        : SW-846 Method 5030B/8260B & EPA 624
Last Update  : Fri Jul 01 12:56:34 2016
Response via : Initial Calibration

Calibration Files
1   =J0977754.D  2   =J0977747.D  3   =J0977748.D  4   =J0977749.D
5   =J0977750.D  6   =J0977751.D  7   =J0977752.D

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

1) I   Fluorobenzene         ----------------ISTD---------------------
2)  Dichlorodifluorom 0.331 0.289 0.254 0.237 0.250 0.255       0.269  12.91
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9996
              Response Ratio = 0.00000 + 0.24071 *A + 0.00990 *A^2

3)P Chloromethane     0.427 0.369 0.325 0.350 0.367 0.297 0.294 0.347  13.45
            ---- Linear regr., Force(0,0) ----  Coefficient =  0.9906
              Response Ratio = 0.00000 + 0.30408 *A

4)C Vinyl Chloride    0.560 0.392 0.337 0.339 0.329 0.350 0.299 0.372  23.47
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9950
              Response Ratio = 0.00000 + 0.38024 *A + -0.03774 *A^2

5)  1,3-Butadiene     0.337 0.264 0.276 0.251 0.256 0.262 0.229 0.268  12.58
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9971
              Response Ratio = 0.00000 + 0.28615 *A + -0.02666 *A^2

6)  Bromomethane      0.519 0.348 0.313 0.313 0.291 0.345       0.355  23.46
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9976
              Response Ratio = 0.00000 + 0.26577 *A + 0.05501 *A^2

7)  Chloroethane      0.320 0.266 0.215 0.228 0.209 0.246       0.247  16.73
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9974
              Response Ratio = 0.00000 + 0.19421 *A + 0.03550 *A^2

8)  Trichlorofluorome 0.716 0.593 0.555 0.558 0.510 0.687       0.603  13.43
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9953
              Response Ratio = 0.00000 + 0.40492 *A + 0.19683 *A^2

9)  Ethyl Ether       0.248 0.176 0.224 0.242 0.192 0.261 0.236 0.226  13.70
10)  1,2-Dichlorotrifl 0.283 0.224 0.327 0.321 0.294 0.334 0.315 0.300  12.68
11)C 1,1-Dichloroethen 0.459 0.334 0.373 0.361 0.383 0.432 0.386 0.390  10.90
12)  Freon 113        0.238 0.188 0.242 0.247 0.274 0.268 0.243 0.243  11.48
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9978
              Response Ratio = 0.00000 + 0.28474 *A + -0.01909 *A^2

13)  Carbon Disulfide  1.005 0.614 0.818 0.840 0.871 0.922 0.878 0.850  14.18
14)  Iodomethane      0.439 0.317 0.377 0.377 0.386 0.414 0.395 0.386   9.78
15)  Allyl chloride   0.302 0.296 0.288 0.279 0.336 0.315 0.310 0.304   6.16
16)  Methylene Chlorid 2.500 0.554 0.461 0.345 0.381 0.377 0.343 0.709  112.00
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9940
              Response Ratio = 0.00000 + 0.41108 *A + -0.03280 *A^2

17)  Acetone          0.022 0.012 0.015 0.015 0.016 0.017 0.016 0.016  17.62
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9988
              Response Ratio = 0.00000 + 0.01640 *A + -0.00001 *A^2
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18)  Methyl acetate    0.034 0.026 0.028 0.025 0.031 0.032 0.032 0.030  11.23
19)  trans-1,2-Dichlor 0.412 0.281 0.342 0.314 0.339 0.347 0.337 0.339  11.64
20)  Hexane            0.294 0.179 0.268 0.244 0.255 0.263 0.238 0.249  14.38
21)  Methyl Tert Butyl 0.936 0.521 0.625 0.597 0.638 0.708 0.656 0.669  19.59
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9964
              Response Ratio = 0.00000 + 0.66091 *A + 0.00343 *A^2

22)  Acetonitrile      0.021 0.004 0.010 0.010 0.010 0.010 0.010 0.011  47.44
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9985
              Response Ratio = 0.00000 + 0.01002 *A + 0.00001 *A^2

23)  Di-isopropyl ethe 1.164 0.728 0.831 0.812 0.881 0.894 0.759 0.867  16.61
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9949
              Response Ratio = 0.00000 + 0.97580 *A + -0.09985 *A^2

24)  Chloroprene       0.390 0.364 0.385 0.379 0.415 0.413 0.359 0.386   5.65
25)P 1,1-Dichloroethan 0.783 0.425 0.467 0.448 0.480 0.494 0.474 0.510  24.00
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9990
              Response Ratio = 0.00000 + 0.48374 *A + -0.00266 *A^2

26)  Acrylonitrile     0.055 0.073 0.071 0.078 0.074 0.072 0.078 0.071  11.06
27)  ETBE              0.930 0.694 0.661 0.805 0.875 0.942 0.908 0.831  13.75
28)  Vinyl acetate     0.418 0.435 0.392 0.494 0.495 0.491 0.454 0.454   9.10
29)  cis-1,2-Dichloroe 0.380 0.266 0.266 0.294 0.307 0.306 0.376 0.314  14.99
30)  2,2-Dichloropropa 0.327 0.268 0.325 0.325 0.342 0.367 0.422 0.339  13.85
31)  Bromochloromethan 0.132 0.105 0.120 0.121 0.135 0.132 0.153 0.128  11.72
32)  Cyclohexane       0.637 0.364 0.476 0.453 0.490 0.483 0.573 0.496  17.55
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9974
              Response Ratio = 0.00000 + 0.39057 *A + 0.08712 *A^2

33)C Chloroform        0.574 0.402 0.447 0.479 0.503 0.551 0.593 0.507  13.79
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  1.0000
              Response Ratio = 0.00000 + 0.44338 *A + 0.07514 *A^2

34)  Ethyl acetate     0.155 0.148 0.152 0.177 0.177 0.176 0.197 0.169  10.47
35)  Tetrahydrofuran   0.083 0.038 0.060 0.051 0.052 0.047 0.057 0.056  25.47
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9921
              Response Ratio = 0.00000 + 0.04338 *A + 0.00611 *A^2

36)S Dibromofluorometh 0.250 0.224 0.244 0.241 0.249 0.264 0.265 0.248   5.66
37)  Carbon Tetrachlor 0.420 0.270 0.275 0.319 0.352 0.382 0.392 0.344  16.95
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9993
              Response Ratio = 0.00000 + 0.32065 *A + 0.03710 *A^2

38)  1,1,1-Trichloroet 0.595 0.373 0.412 0.419 0.434 0.461 0.485 0.454  15.78
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  1.0000
              Response Ratio = 0.00000 + 0.40106 *A + 0.04202 *A^2

39)  2-Butanone        0.058 0.059 0.065 0.068 0.072 0.073 0.076 0.067  10.61
40)  1,1-Dichloroprope 0.476 0.296 0.306 0.350 0.356 0.366 0.328 0.354  16.91
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9975
              Response Ratio = 0.00000 + 0.38339 *A + -0.02517 *A^2

41)  tert-Butyl Format 0.086 0.104 0.127 0.120 0.122 0.144 0.130 0.119  15.75
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9939
              Response Ratio = 0.00000 + 0.13124 *A + 0.00011 *A^2

42)  Propionitrile     0.024 0.023 0.028 0.027 0.027 0.027 0.029 0.027   8.51
43)  Methacrylonitrile 0.118 0.103 0.109 0.108 0.112 0.109 0.109 0.110   4.13
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44)  Benzene           1.374 0.881 1.032 1.002 1.120 1.119 1.165 1.099  14.00
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9995
              Response Ratio = 0.00000 + 1.02493 *A + 0.07033 *A^2

45)  TAME              0.857 0.576 0.619 0.631 0.697 0.743 0.715 0.691  13.56
46)S 1,2-Dichloroethan 0.311 0.316 0.335 0.323 0.321 0.344 0.286 0.319   5.76
47)  1,2-Dichloroethan 0.578 0.330 0.373 0.368 0.384 0.407 0.363 0.400  20.37
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9964
              Response Ratio = 0.00000 + 0.41554 *A + -0.02314 *A^2

48)  Trichloroethene   0.336 0.235 0.264 0.252 0.264 0.282 0.304 0.277  12.38
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9999
              Response Ratio = 0.00000 + 0.23653 *A + 0.03340 *A^2

49)  Methylcyclohexane 0.540 0.419 0.466 0.444 0.466 0.493 0.513 0.477   8.68
50)  Dibromomethane    0.282 0.102 0.140 0.139 0.159 0.157 0.155 0.162  34.85
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9986
              Response Ratio = 0.00000 + 0.15223 *A + 0.00166 *A^2

51)C 1,2-Dichloropropa 0.359 0.260 0.261 0.267 0.286 0.290 0.295 0.288  11.89
52)  Bromodichlorometh 0.311 0.260 0.319 0.346 0.371 0.391 0.368 0.338  13.31
53)  Methyl methacryla 0.112 0.126 0.153 0.144 0.154 0.149 0.152 0.141  11.39
54)  2-Chloroethyl vin 0.199 0.151 0.153 0.149 0.150 0.157 0.153 0.159  11.36
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9995
              Response Ratio = 0.00000 + 0.15313 *A + 0.00004 *A^2

55)  cis-1,3-Dichlorop 0.394 0.305 0.346 0.358 0.419 0.433 0.482 0.391  15.28
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9993
              Response Ratio = 0.00000 + 0.34271 *A + 0.06908 *A^2


56) I   Chlorobenzene-d5      ----------------ISTD---------------------
57)S Toluene-d8        1.360 1.352 1.372 1.499 1.258 1.035 1.271 1.307  11.00
58)C Toluene           2.420 1.362 1.521 1.725 1.533 1.267       1.638  25.29
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9978
              Response Ratio = 0.00000 + 1.86837 *A + -0.42732 *A^2

59)  2-Nitropropane    0.081 0.044 0.046 0.060 0.056 0.052 0.062 0.057  21.65
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9932
              Response Ratio = 0.00000 + 0.04709 *A + 0.00136 *A^2

60)  4-Methyl-2-pentan 0.247 0.216 0.238 0.255 0.249 0.251 0.338 0.256  15.01
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9922
              Response Ratio = 0.00000 + 0.16685 *A + 0.01631 *A^2

61)  trans-1,3-Dichlor 0.437 0.376 0.421 0.440 0.490 0.477       0.440   9.29
62)  Tetrachloroethene 0.473 0.265 0.303 0.344 0.325 0.332       0.341  20.67
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9991
              Response Ratio = 0.00000 + 0.32636 *A + 0.00410 *A^2

63)  Ethyl methacrylat 0.216 0.326 0.345 0.373 0.379 0.404 0.435 0.354  19.97
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9999
              Response Ratio = 0.00000 + 0.34119 *A + 0.04670 *A^2

64)  1,1,2-Trichloroet 0.368 0.212 0.252 0.255 0.266 0.269 0.305 0.275  17.96
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9989
              Response Ratio = 0.00000 + 0.22576 *A + 0.03814 *A^2

65)  Dibromochlorometh 0.388 0.242 0.280 0.311 0.327 0.321 0.363 0.319  15.29
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9984
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                Response Ratio = 0.00000 + 0.27797 *A + 0.04058 *A^2

66)  1,3-Dichloropropa 0.536 0.420 0.505 0.525 0.503 0.547 0.551 0.513   8.77
67)  1,2-Dibromoethane 0.354 0.216 0.267 0.282 0.295 0.307 0.333 0.294  15.35
             ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9998
                Response Ratio = 0.00000 + 0.26157 *A + 0.03519 *A^2

68)  2-hexanone        0.132 0.123 0.167 0.174 0.171 0.170 0.178 0.159  13.88
             ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9995
                Response Ratio = 0.00000 + 0.16345 *A + 0.00137 *A^2

69)  1-Chlorohexane    0.528 0.385 0.470 0.480 0.502 0.532 0.542 0.491  11.01
70)C Ethylbenzene      2.804 1.721 1.780 1.857 1.876 1.768 1.923 1.961  19.28
             ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9983
                Response Ratio = 0.00000 + 1.72738 *A + 0.08715 *A^2

71)P Chlorobenzene     1.568 0.893 0.991 1.020 0.999 0.982 1.101 1.079  20.76
             ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9982
                Response Ratio = 0.00000 + 0.89459 *A + 0.09633 *A^2

72)  1,1,1,2-Tetrachlo 0.362 0.272 0.287 0.338 0.335 0.327 0.363 0.326  10.75
73)  m,p-Xylene        1.912 1.122 1.352 1.362 1.421 1.315 1.489 1.425  17.07
             ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9969
                Response Ratio = 0.00000 + 1.23949 *A + 0.05695 *A^2

74)  o-Xylene          1.914 1.122 1.332 1.420 1.478 1.434 1.613 1.473  16.65
             ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9983
                Response Ratio = 0.00000 + 1.27849 *A + 0.15848 *A^2

75)  Styrene           0.912 0.861 0.910 0.929 1.129 1.116 1.208 1.009  13.61
             ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9988
                Response Ratio = 0.00000 + 0.95371 *A + 0.12644 *A^2

76)P Bromoform         0.194 0.121 0.129 0.136 0.177 0.172 0.188 0.160  18.64
             ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9977
                Response Ratio = 0.00000 + 0.14396 *A + 0.02170 *A^2

77)  Isopropylbenzene  2.166 1.398 1.414 1.458 1.757 1.696 1.623 1.645  16.41
             ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9976
                Response Ratio = 0.00000 + 1.69889 *A + -0.03035 *A^2


78) I   1,4-Dichlorobenzene-d ----------------ISTD---------------------
79)S 4-Bromofluorobenz 1.012 1.000 0.938 1.058 0.974 1.004 0.855 0.977   6.66
80)  cis-1,4-Dichloro- 0.260 0.174 0.206 0.242 0.217 0.213 0.204 0.216  12.86
             ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9991
                Response Ratio = 0.00000 + 0.23364 *A + -0.01499 *A^2

81)  n-Propylbenzene   4.687 3.857 4.269 4.100 4.244 4.244 4.238 4.234   5.84
82)  Bromobenzene      0.979 0.671 0.731 0.694 0.761 0.772 0.734 0.763  13.32
83)P 1,1,2,2-Tetrachlo 0.970 0.646 0.717 0.730 0.814 0.820 0.825 0.789  13.16
84)  1,3,5-Trimethylbe 3.338 2.391 2.808 2.889 3.098 3.104 3.258 2.984  10.77
85)  2-Chlorotoluene   3.104 2.532 2.718 2.785 2.917 2.887 3.006 2.850   6.68
86)  trans-1,4-Dichlor 0.260 0.163 0.185 0.211 0.209 0.201 0.197 0.204  14.68
             ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9996
                Response Ratio = 0.00000 + 0.21231 *A + -0.00778 *A^2

87)  1,2,3-Trichloropr 0.395 0.193 0.180 0.183 0.212 0.211 0.200 0.225  33.77
             ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9978
                Response Ratio = 0.00000 + 0.20951 *A + -0.00347 *A^2
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 88)  Cyclohexanone     0.027 0.018 0.021 0.022 0.019 0.020 0.020 0.021  13.11
             ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9986
               Response Ratio = 0.00000 + 0.02023 *A + -0.00000 *A^2

 89)  4-Chlorotoluene   3.459 2.167 2.389 2.432 2.806 2.778 2.590 2.660  15.71
             ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9976
               Response Ratio = 0.00000 + 2.81608 *A + -0.09678 *A^2

 90)  a-Methyl Styrene  1.212 1.440 1.615 1.491 1.704 1.633 1.657 1.536  11.11
 91)  tert-Butylbenzene 2.082 1.467 1.515 1.592 1.808 1.749 1.797 1.716  12.32
 92)  1,2,4-Trimethylbe 3.745 2.745 2.802 2.896 3.266 3.079 2.894 3.061  11.41
 93)  Pentachloroethane 0.346 0.376 0.401 0.463 0.485 0.465 0.460 0.428  12.44
 94)  sec-Butylbenzene  4.318 3.177 3.442 3.650 3.972 3.830 3.917 3.758   9.95
 95)  4-Isopropyltoluen 3.987 2.591 2.958 2.923 3.226 3.166 3.184 3.148  13.66
 96)  1,3-Dichlorobenze 2.006 1.389 1.479 1.450 1.568 1.553 1.638 1.583  12.87
             ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9996
               Response Ratio = 0.00000 + 1.43932 *A + 0.09715 *A^2

 97)  1,4-Dichlorobenze 2.105 1.264 1.374 1.431 1.661 1.598 1.623 1.579  17.32
             ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9988
               Response Ratio = 0.00000 + 1.53763 *A + 0.04409 *A^2

 98)  n-Butylbenzene    1.826 1.434 1.637 1.686 1.953 1.940 1.979 1.779  11.38
 99)  Benzyl Chloride   0.262 0.118 0.162 0.216 0.247 0.276 0.263 0.221  26.89
             ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9959
               Response Ratio = 0.00000 + 0.23651 *A + 0.01587 *A^2

100)  1,2-Dichlorobenze 1.836 1.148 1.307 1.372 1.448 1.475 1.530 1.445  14.77
             ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9999
               Response Ratio = 0.00000 + 1.35113 *A + 0.08982 *A^2

101)  1,2-Dibromo-3-Chl       0.080 0.104 0.108 0.110 0.088 0.121 0.102  14.83
102)  Hexachlorobutadie 0.472 0.325 0.420 0.437 0.434 0.379 0.517 0.426  14.57
103)  1,2,4-Trichlorobe 1.310 0.844 0.822 0.822 0.956 0.784       0.923  21.49
             ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9923
               Response Ratio = 0.00000 + 0.98933 *A + -0.13963 *A^2

104)  Naphthalene       2.379 1.212 1.423 1.481 1.708 1.510       1.619  25.02
             ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9949
               Response Ratio = 0.00000 + 1.66691 *A + -0.10060 *A^2

105)  1,2,3-Trichlorobe 0.989 0.641 0.655 0.692 0.795 0.670 0.571 0.716  19.25
             ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9960
               Response Ratio = 0.00000 + 0.85548 *A + -0.13973 *A^2


106) I   Tert Butyl Alcohol-d1 ----------------ISTD---------------------
107)  Ethanol                 0.131 0.150 0.148 0.156 0.130 0.139 0.142   7.56
108)  acrolein          4.356 2.658 2.773 2.348 3.138 2.794 2.744 2.973  21.95
             ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9952
               Response Ratio = 0.00000 + 2.91834 *A + -0.08348 *A^2

109)  Tert Butyl Alcoho 1.283 1.172 1.218 1.122 1.293 1.221 1.163 1.210   5.21
             ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9985
               Response Ratio = 0.00000 + 1.28941 *A + -0.02995 *A^2

110)  tert Amyl alcohol 1.139 0.917 0.993 0.858 1.008 1.011 1.139 1.009  10.36
111)  Isobutyl alcohol  0.487 0.472 0.427 0.510 0.467 0.447 0.437 0.464   6.25
112)  1,4-Dioxane       0.276 0.159 0.146 0.137 0.158 0.143 0.176 0.171  28.22
```

Initial Calibration Summary

Job Number: FA34891 **Sample:** VJ5359-ICC5359
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** J0977750.D
Project: BMSMC, Building 5 Area, Humacao, PR

```
              ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9937
                Response Ratio = 0.00000 + 0.12059 *A + 0.00642 *A^2

113)  3,3-Dimethyl-1-bu 0.848 0.959 1.106 0.979 1.339 2.380       1.268  44.91
              ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9975
                Response Ratio = 0.00000 + 0.20271 *A + 0.15434 *A^2

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

          MSJ070116a.M        Tue Jul 05 07:54:26 2016
```

Initial Calibration Verification

Job Number: FA34891 **Sample:** VJ5359-ICV5359
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** J0977755.D
Project: BMSMC, Building 5 Area, Humacao, PR

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\data\070116\J0977755.D          Vial: 10
Acq On    :  1 Jul 2016  12:23 pm                     Operator: darshnap
Sample    : icV5359-5                                 Inst    : MSVOA6
Misc      : MS34274,vj5359,,,,,                       Multiplr: 1.00
MS Integration Params: RTEINT.P

Method       : C:\msdchem\1\methods\MSJ070116a.M (RTE Integrator)
Title        : SW-846 Method 5030B/8260B & EPA 624
Last Update  : Fri Jul 01 12:56:34 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	7.74
		Amount	Calc.	%Drift			
2	Dichlorodifluoromethane	40.000	32.767	18.1	83	0.00	2.69
3 P	Chloromethane	40.000	35.776	10.6	76	0.00	2.89
4 C	Vinyl Chloride	40.000	32.968	17.6	92	0.00	3.03
5	1,3-Butadiene	40.000	0.569	98.6#	2	-0.01	3.02
6	Bromomethane	40.000	33.815	15.5	91	-0.01	3.44
7	Chloroethane	40.000	36.727	8.2	100	0.00	3.60
8	Trichlorofluoromethane	40.000	36.119	9.7	100	0.00	3.76
		AvgRF	CCRF	%Dev			
9	Ethyl Ether	0.226	0.228	-0.9	122	0.01	4.11
10	1,2-Dichlorotrifluoroetha	0.300	0.333	-11.0	116	0.00	4.34
11 C	1,1-Dichloroethene	0.390	0.393	-0.8	106	0.00	4.38
		Amount	Calc.	%Drift			
12	Freon 113	40.000	34.356	14.1	88	0.00	4.45
		AvgRF	CCRF	%Dev			
13	Carbon Disulfide	0.850	0.814	4.2	96	0.00	4.47
14	Iodomethane	0.386	0.377	2.3	101	0.00	4.57
15	Allyl chloride	0.304	0.314	-3.3	96	0.00	4.91
		Amount	Calc.	%Drift			
16	Methylene Chloride	40.000	40.090	-0.2	104	0.00	5.03
17	Acetone	200.000	238.358	-19.2	123	0.00	5.06
		AvgRF	CCRF	%Dev			
18	Methyl acetate	0.030	0.032	-6.7	109	0.00	5.17
19	trans-1,2-Dichloroethene	0.339	0.416	-22.7#	126	0.00	5.22
20	Hexane	0.249	0.266	-6.8	107	0.00	5.29
		Amount	Calc.	%Drift			
21	Methyl Tert Butyl Ether	40.000	39.670	0.8	106	0.00	5.33
22	Acetonitrile	400.000	482.558	-20.6#	120	0.00	5.58
23	Di-isopropyl ether	40.000	37.805	5.5	100	0.00	5.71
		AvgRF	CCRF	%Dev			
24	Chloroprene	0.386	0.375	2.8	93	0.00	5.86
		Amount	Calc.	%Drift			

Initial Calibration Verification

Job Number: FA34891 **Sample:** VJ5359-ICV5359
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** J0977755.D
Project: BMSMC, Building 5 Area, Humacao, PR

25	P	1,1-Dichloroethane	40.000	44.782	-12.0	116	0.00	5.89
		----------	AvgRF	CCRF	%Dev	----------		
26		Acrylonitrile	0.071	0.075	-5.6	105	0.00	5.91
27		ETBE	0.831	0.795	4.3	94	0.00	6.10
28		Vinyl acetate	0.454	0.442	2.6	92	0.00	6.09
29		cis-1,2-Dichloroethene	0.314	0.293	6.7	98	0.00	6.46
30		2,2-Dichloropropane	0.339	0.363	-7.1	110	0.00	6.59
31		Bromochloromethane	0.128	0.126	1.6	96	0.00	6.68
		----------	Amount	Calc.	%Drift	----------		
32		Cyclohexane	40.000	41.644	-4.1	101	0.00	6.72
33	C	Chloroform	40.000	40.586	-1.5	105	0.00	6.73
		----------	AvgRF	CCRF	%Dev	----------		
34		Ethyl acetate	0.169	0.165	2.4	96	0.00	6.79
		----------	Amount	Calc.	%Drift	----------		
35		Tetrahydrofuran	40.000	43.957	-9.9	106	0.01	6.91
		----------	AvgRF	CCRF	%Dev	----------		
36	S	Dibromofluoromethane	0.248	0.244	1.6	101	0.00	6.92
		----------	Amount	Calc.	%Drift	----------		
37		Carbon Tetrachloride	40.000	40.913	-2.3	105	0.00	6.92
38		1,1,1-Trichloroethane	40.000	39.481	1.3	102	0.00	6.98
		----------	AvgRF	CCRF	%Dev	----------		
39		2-Butanone	0.067	0.075	-11.9	108	0.00	7.01
		----------	Amount	Calc.	%Drift	----------		
40		1,1-Dichloropropene	40.000	39.381	1.5	104	0.00	7.09
41		tert-Butyl Formate	400.000	389.859	2.5	109	0.00	7.17
		----------	AvgRF	CCRF	%Dev	----------		
42		Propionitrile	0.027	0.028	-3.7	106	0.00	7.32
43		Methacrylonitrile	0.110	0.112	-1.8	103	0.00	7.35
		----------	Amount	Calc.	%Drift	----------		
44		Benzene	40.000	40.730	-1.8	101	0.00	7.34
		----------	AvgRF	CCRF	%Dev	----------		
45		TAME	0.691	0.661	4.3	98	0.00	7.42
46	S	1,2-Dichloroethane-d4	0.319	0.316	0.9	101	0.00	7.46
		----------	Amount	Calc.	%Drift	----------		
47		1,2-Dichloroethane	40.000	37.675	5.8	101	0.00	7.53
48		Trichloroethene	40.000	43.049	-7.6	112	0.00	7.92
		----------	AvgRF	CCRF	%Dev	----------		
49		Methylcyclohexane	0.477	0.482	-1.0	107	0.00	7.95
		----------	Amount	Calc.	%Drift	----------		
50		Dibromomethane	40.000	40.293	-0.7	100	0.00	8.35
		----------	AvgRF	CCRF	%Dev	----------		
51	C	1,2-Dichloropropane	0.288	0.284	1.4	102	0.00	8.43
52		Bromodichloromethane	0.338	0.363	-7.4	101	0.00	8.48
53		Methyl methacrylate	0.141	0.167	-18.4	112	0.00	8.58

Initial Calibration Verification

Job Number: FA34891 **Sample:** VJ5359-ICV5359
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** J0977755.D
Project: BMSMC, Building 5 Area, Humacao, PR

			Amount	Calc.	%Drift			
54		2-Chloroethyl vinyl ether	200.000	196.433	1.8	104	0.00	8.99
55		cis-1,3-Dichloropropene	40.000	41.160	-2.9	101	0.00	9.10

			AvgRF	CCRF	%Dev			
56	I	Chlorobenzene-d5	1.000	1.000	0.0	97	0.00	10.83
57	S	Toluene-d8	1.307	1.339	-2.4	104	0.00	9.29

			Amount	Calc.	%Drift			
58	C	Toluene	40.000	41.960	-4.9	101	0.00	9.34
59		2-Nitropropane	200.000	209.953	-5.0	97	0.00	9.54
60		4-Methyl-2-pentanone	200.000	212.796	-6.4	98	0.00	9.66

			AvgRF	CCRF	%Dev			
61		trans-1,3-Dichloropropene	0.440	0.544	-23.6#	108	0.00	9.72

			Amount	Calc.	%Drift			
62		Tetrachloroethene	40.000	44.060	-10.2	109	0.00	9.74
63		Ethyl methacrylate	40.000	35.565	11.1	85	0.00	9.83
64		1,1,2-Trichloroethane	40.000	42.593	-6.5	101	0.00	9.88
65		Dibromochloromethane	40.000	42.022	-5.1	97	0.00	10.08

			AvgRF	CCRF	%Dev			
66		1,3-Dichloropropane	0.513	0.525	-2.3	101	0.00	10.17

			Amount	Calc.	%Drift			
67		1,2-Dibromoethane	40.000	40.892	-2.2	98	0.00	10.34
68		2-hexanone	200.000	204.365	-2.2	98	0.00	10.47

			AvgRF	CCRF	%Dev			
69		1-Chlorohexane	0.491	0.489	0.4	95	0.00	10.78

			Amount	Calc.	%Drift			
70	C	Ethylbenzene	40.000	40.931	-2.3	96	0.00	10.85
71	P	Chlorobenzene	40.000	42.640	-6.6	101	0.00	10.85

			AvgRF	CCRF	%Dev			
72		1,1,1,2-Tetrachloroethane	0.326	0.348	-6.7	101	0.00	10.90

			Amount	Calc.	%Drift			
73		m,p-Xylene	80.000	86.609	-8.3	99	0.00	10.98
74		o-Xylene	40.000	41.518	-3.8	96	0.00	11.42
75		Styrene	40.000	42.102	-5.3	96	0.00	11.47
76	P	Bromoform	40.000	42.130	-5.3	94	0.00	11.54
77		Isopropylbenzene	40.000	43.197	-8.0	100	0.00	11.73

			AvgRF	CCRF	%Dev			
78	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	97	0.00	13.19
79	S	4-Bromofluorobenzene	0.977	0.942	3.6	94	0.00	12.04

			Amount	Calc.	%Drift			
80		cis-1,4-Dichloro-2-butene	40.000	33.304	16.7	83	0.00	12.08

			AvgRF	CCRF	%Dev			
81		n-Propylbenzene	4.234	4.409	-4.1	101	0.00	12.15
82		Bromobenzene	0.763	0.771	-1.0	98	0.00	12.17
83	P	1,1,2,2-Tetrachloroethane	0.789	0.776	1.6	92	0.00	12.21
84		1,3,5-Trimethylbenzene	2.984	2.975	0.3	93	0.00	12.33

Initial Calibration Verification

Job Number: FA34891 **Sample:** VJ5359-ICV5359
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** J0977755.D
Project: BMSMC, Building 5 Area, Humacao, PR

85	2-Chlorotoluene	2.850	2.886	-1.3	96	0.00	12.33
	----------	Amount	Calc.	%Drift		----------	
86	trans-1,4-Dichloro-2-Bute	40.000	37.474	6.3	90	0.00	12.39
87	1,2,3-Trichloropropane	40.000	39.794	0.5	94	0.00	12.36
88	Cyclohexanone	200.000	163.202	18.4	84	0.00	12.43
89	4-Chlorotoluene	40.000	38.710	3.2	91	0.00	12.50
	----------	AvgRF	CCRF	%Dev		----------	
90	a-Methyl Styrene	1.536	0.018	98.8#	1#	0.08	12.67
91	tert-Butylbenzene	1.716	1.719	-0.2	92	0.00	12.67
92	1,2,4-Trimethylbenzene	3.061	3.021	1.3	90	0.00	12.73
93	Pentachloroethane	0.428	0.487	-13.8	97	0.00	12.72
94	sec-Butylbenzene	3.758	3.985	-6.0	97	0.00	12.85
95	4-Isopropyltoluene	3.148	3.124	0.8	94	0.00	12.99
	----------	Amount	Calc.	%Drift		----------	
96	1,3-Dichlorobenzene	40.000	40.669	-1.7	95	0.00	13.12
97	1,4-Dichlorobenzene	40.000	39.993	0.0	92	0.00	13.20
	----------	AvgRF	CCRF	%Dev		----------	
98	n-Butylbenzene	1.779	1.960	-10.2	97	0.00	13.42
	----------	Amount	Calc.	%Drift		----------	
99	Benzyl Chloride	40.000	39.308	1.7	96	0.00	13.43
100	1,2-Dichlorobenzene	40.000	40.884	-2.2	97	0.00	13.63
	----------	AvgRF	CCRF	%Dev		----------	
101	1,2-Dibromo-3-Chloropropa	0.102	0.111	-8.8	97	0.00	14.37
102	Hexachlorobutadiene	0.426	0.467	-9.6	104	0.00	14.91
	----------	Amount	Calc.	%Drift		----------	
103	1,2,4-Trichlorobenzene	40.000	44.826	-12.1	98	0.00	14.96
104	Naphthalene	40.000	49.094	-22.7#	109	0.00	15.24
105	1,2,3-Trichlorobenzene	40.000	43.059	-7.6	96	0.00	15.41
	----------	AvgRF	CCRF	%Dev		----------	
106 I	Tert Butyl Alcohol-d10	1.000	1.000	0.0	119	0.00	5.28
107	Ethanol	0.142	0.135	4.9	103	0.00	4.27
	----------	Amount	Calc.	%Drift		----------	
108	acrolein	200.000	230.781	-15.4	124	0.00	4.75
109	Tert Butyl Alcohol	400.000	358.490	10.4	102	0.00	5.37
	----------	AvgRF	CCRF	%Dev		----------	
110	tert Amyl alcohol	1.009	0.879	12.9	103	0.00	7.56
111	Isobutyl alcohol	0.464	0.415	10.6	105	0.00	7.44
	----------	Amount	Calc.	%Drift		----------	
112	1,4-Dioxane	800.000	795.072	0.6	105	0.00	8.66
113	3,3-Dimethyl-1-butanol	2000.000	1766.613	11.7	101	0.00	10.42

(#) = Out of Range SPCC's out = 0 CCC's out = 0
J0977750.D MSJ070116a.M Tue Jul 05 07:54:05 2016

Continuing Calibration Summary

Job Number: FA34891 **Sample:** VJ5359-ECC5359
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** J0977779.D
Project: BMSMC, Building 5 Area, Humacao, PR

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\data\070116\J0977779.D          Vial: 23
Acq On    :  1 Jul 2016  10:03 pm                     Operator: darshnap
Sample    : ecc5359-5                                 Inst    : MSVOA6
Misc      : MS34309,vj5359,,,,,                       Multiplr: 1.00
MS Integration Params: RTEINT.P

Method       : C:\msdchem\1\methods\MSJ070116a.M (RTE Integrator)
Title        : SW-846 Method 5030B/8260B & EPA 624
Last Update  : Fri Jul 01 12:56:34 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	120	0.00	7.74
			Amount	Calc.	%Drift			
2		Dichlorodifluoromethane	40.000	32.873	17.8	98	0.00	2.69
3	P	Chloromethane	40.000	39.090	2.3	97	0.00	2.89
4	C	Vinyl Chloride	40.000	35.059	12.4	113	0.00	3.03
5		1,3-Butadiene	40.000	42.144	-5.4	130	0.00	3.03
6		Bromomethane	40.000	35.709	10.7	113	0.00	3.46
7		Chloroethane	40.000	36.399	9.0	115	0.00	3.61
8		Trichlorofluoromethane	40.000	34.361	14.1	109	0.00	3.76
			AvgRF	CCRF	%Dev			
9		Ethyl Ether	0.226	0.243	-7.5	152	0.01	4.11
10		1,2-Dichlorotrifluoroetha	0.300	0.300	0.0	123	0.00	4.34
11	C	1,1-Dichloroethene	0.390	0.349	10.5	110	0.00	4.39
			Amount	Calc.	%Drift			
12		Freon 113	40.000	34.341	14.1	102	0.00	4.45
			AvgRF	CCRF	%Dev			
13		Carbon Disulfide	0.850	0.813	4.4	112	0.00	4.46
14		Iodomethane	0.386	0.391	-1.3	122	0.00	4.58
15		Allyl chloride	0.304	0.299	1.6	107	0.00	4.92
			Amount	Calc.	%Drift			
16		Methylene Chloride	40.000	36.900	7.8	113	0.00	5.04
17		Acetone	200.000	209.601	-4.8	126	0.00	5.05
			AvgRF	CCRF	%Dev			
18		Methyl acetate	0.030	0.032	-6.7	126	0.00	5.18
19		trans-1,2-Dichloroethene	0.339	0.325	4.1	115	0.00	5.22
20		Hexane	0.249	0.237	4.8	112	0.00	5.28
			Amount	Calc.	%Drift			
21		Methyl Tert Butyl Ether	40.000	38.628	3.4	121	0.00	5.32
22		Acetonitrile	400.000	416.752	-4.2	121	0.00	5.58
23		Di-isopropyl ether	40.000	36.214	9.5	112	0.00	5.70
			AvgRF	CCRF	%Dev			
24		Chloroprene	0.386	0.360	6.7	104	0.00	5.86
			Amount	Calc.	%Drift			

Continuing Calibration Summary

Job Number: FA34891 **Sample:** VJ5359-ECC5359
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** J0977779.D
Project: BMSMC, Building 5 Area, Humacao, PR

25	P	1,1-Dichloroethane	40.000	39.010	2.5	118	0.00	5.88
		----------	AvgRF	CCRF	%Dev	----------		
26		Acrylonitrile	0.071	0.069	2.8	113	0.00	5.91
27		ETBE	0.831	0.839	-1.0	115	0.00	6.10
28		Vinyl acetate	0.454	0.356	21.6	87	0.00	6.09
29		cis-1,2-Dichloroethene	0.314	0.292	7.0	114	0.00	6.46
30		2,2-Dichloropropane	0.339	0.269	20.6	95	0.00	6.60
31		Bromochloromethane	0.128	0.127	0.8	113	0.00	6.67
		----------	Amount	Calc.	%Drift	----------		
32		Cyclohexane	40.000	37.260	6.9	104	0.00	6.72
33	C	Chloroform	40.000	38.171	4.6	114	0.00	6.72
		----------	AvgRF	CCRF	%Dev	----------		
34		Ethyl acetate	0.169	0.154	8.9	105	0.00	6.79
		----------	Amount	Calc.	%Drift	----------		
35		Tetrahydrofuran	40.000	39.580	1.1	110	0.00	6.91
		----------	AvgRF	CCRF	%Dev	----------		
36	S	Dibromofluoromethane	0.248	0.237	4.4	115	0.00	6.91
		----------	Amount	Calc.	%Drift	----------		
37		Carbon Tetrachloride	40.000	36.332	9.2	108	0.00	6.92
38		1,1,1-Trichloroethane	40.000	35.614	11.0	106	0.00	6.98
		----------	AvgRF	CCRF	%Dev	----------		
39		2-Butanone	0.067	0.066	1.5	111	0.00	7.01
		----------	Amount	Calc.	%Drift	----------		
40		1,1-Dichloropropene	40.000	33.655	15.9	104	0.00	7.09
41		tert-Butyl Formate	400.000	284.705	28.8	93	0.00	7.18
		----------	AvgRF	CCRF	%Dev	----------		
42		Propionitrile	0.027	0.025	7.4	110	0.00	7.32
43		Methacrylonitrile	0.110	0.098	10.9	105	0.00	7.35
		----------	Amount	Calc.	%Drift	----------		
44		Benzene	40.000	38.544	3.6	112	0.00	7.34
		----------	AvgRF	CCRF	%Dev	----------		
45		TAME	0.691	0.669	3.2	115	0.00	7.42
46	S	1,2-Dichloroethane-d4	0.319	0.291	8.8	109	0.00	7.46
		----------	Amount	Calc.	%Drift	----------		
47		1,2-Dichloroethane	40.000	32.453	18.9	102	0.00	7.53
48		Trichloroethene	40.000	38.067	4.8	114	0.00	7.92
		----------	AvgRF	CCRF	%Dev	----------		
49		Methylcyclohexane	0.477	0.435	8.8	112	0.00	7.95
		----------	Amount	Calc.	%Drift	----------		
50		Dibromomethane	40.000	36.739	8.2	106	0.00	8.34
		----------	AvgRF	CCRF	%Dev	----------		
51	C	1,2-Dichloropropane	0.288	0.268	6.9	113	0.00	8.44
52		Bromodichloromethane	0.338	0.321	5.0	104	0.00	8.48
53		Methyl methacrylate	0.141	0.139	1.4	108	0.00	8.58

Continuing Calibration Summary

Job Number: FA34891 **Sample:** VJ5359-ECC5359
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** J0977779.D
Project: BMSMC, Building 5 Area, Humacao, PR

			Amount	Calc.	%Drift			
54		2-Chloroethyl vinyl ether	200.000	177.358	11.3	109	0.00	8.99
55		cis-1,3-Dichloropropene	40.000	37.090	7.3	105	0.00	9.10
			AvgRF	CCRF	%Dev			
56	I	Chlorobenzene-d5	1.000	1.000	0.0	115	0.00	10.83
57	S	Toluene-d8	1.307	1.331	-1.8	122	0.00	9.29
			Amount	Calc.	%Drift			
58	C	Toluene	40.000	38.340	4.1	111	0.00	9.34
59		2-Nitropropane	200.000	190.491	4.8	103	0.00	9.54
60		4-Methyl-2-pentanone	200.000	206.099	-3.0	112	0.00	9.66
			AvgRF	CCRF	%Dev			
61		trans-1,3-Dichloropropene	0.440	0.429	2.5	101	0.00	9.72
			Amount	Calc.	%Drift			
62		Tetrachloroethene	40.000	60.104	-50.3#	177	0.00	9.74
63		Ethyl methacrylate	40.000	40.705	-1.8	117	0.00	9.83
64		1,1,2-Trichloroethane	40.000	39.663	0.8	110	0.00	9.88
65		Dibromochloromethane	40.000	38.452	3.9	105	0.00	10.08
			AvgRF	CCRF	%Dev			
66		1,3-Dichloropropane	0.513	0.494	3.7	113	0.00	10.17
			Amount	Calc.	%Drift			
67		1,2-Dibromoethane	40.000	39.319	1.7	111	0.00	10.35
68		2-hexanone	200.000	195.143	2.4	111	0.00	10.47
			AvgRF	CCRF	%Dev			
69		1-Chlorohexane	0.491	0.448	8.8	103	0.00	10.78
			Amount	Calc.	%Drift			
70	C	Ethylbenzene	40.000	38.704	3.2	107	0.00	10.85
71	P	Chlorobenzene	40.000	40.277	-0.7	113	0.00	10.85
			AvgRF	CCRF	%Dev			
72		1,1,1,2-Tetrachloroethane	0.326	0.318	2.5	109	0.00	10.90
			Amount	Calc.	%Drift			
73		m,p-Xylene	80.000	77.833	2.7	105	0.00	10.98
74		o-Xylene	40.000	38.440	3.9	105	0.00	11.42
75		Styrene	40.000	38.711	3.2	104	0.00	11.47
76	P	Bromoform	40.000	37.860	5.4	99	0.00	11.53
77		Isopropylbenzene	40.000	36.832	7.9	101	0.00	11.73
			AvgRF	CCRF	%Dev			
78	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	105	0.00	13.19
79	S	4-Bromofluorobenzene	0.977	0.961	1.6	104	0.00	12.04
			Amount	Calc.	%Drift			
80		cis-1,4-Dichloro-2-butene	40.000	31.366	21.6	86	0.00	12.07
			AvgRF	CCRF	%Dev			
81		n-Propylbenzene	4.234	4.111	2.9	102	0.00	12.15
82		Bromobenzene	0.763	0.775	-1.6	107	0.00	12.17
83	P	1,1,2,2-Tetrachloroethane	0.789	0.783	0.8	101	0.00	12.21
84		1,3,5-Trimethylbenzene	2.984	3.037	-1.8	103	0.00	12.33

Continuing Calibration Summary

Job Number: FA34891 **Sample:** VJ5359-ECC5359
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** J0977779.D
Project: BMSMC, Building 5 Area, Humacao, PR

85	2-Chlorotoluene	2.850	2.800	1.8	101	0.00	12.33
	----------	Amount	Calc.	%Drift		----------	
86	trans-1,4-Dichloro-2-Bute	40.000	33.463	16.3	87	0.00	12.39
87	1,2,3-Trichloropropane	40.000	39.392	1.5	101	0.00	12.37
88	Cyclohexanone	200.000	153.591	23.2	86	0.00	12.43
89	4-Chlorotoluene	40.000	36.714	8.2	95	0.00	12.50
	----------	AvgRF	CCRF	%Dev		----------	
90	a-Methyl Styrene	1.536	1.606	-4.6	99	0.00	12.59
91	tert-Butylbenzene	1.716	1.570	8.5	92	0.00	12.67
92	1,2,4-Trimethylbenzene	3.061	2.944	3.8	95	0.00	12.74
93	Pentachloroethane	0.428	0.172	59.8#	37#	0.00	12.72
94	sec-Butylbenzene	3.758	3.582	4.7	95	0.00	12.85
95	4-Isopropyltoluene	3.148	2.931	6.9	96	0.00	12.99
	----------	Amount	Calc.	%Drift		----------	
96	1,3-Dichlorobenzene	40.000	41.492	-3.7	106	0.00	13.12
97	1,4-Dichlorobenzene	40.000	39.293	1.8	98	0.00	13.20
	----------	AvgRF	CCRF	%Dev		----------	
98	n-Butylbenzene	1.779	1.682	5.5	91	0.00	13.42
	----------	Amount	Calc.	%Drift		----------	
99	Benzyl Chloride	40.000	30.894	22.8	81	0.00	13.43
100	1,2-Dichlorobenzene	40.000	40.812	-2.0	106	0.00	13.63
	----------	AvgRF	CCRF	%Dev		----------	
101	1,2-Dibromo-3-Chloropropa	0.102	0.096	5.9	92	0.00	14.37
102	Hexachlorobutadiene	0.426	0.397	6.8	96	0.00	14.91
	----------	Amount	Calc.	%Drift		----------	
103	1,2,4-Trichlorobenzene	40.000	40.609	-1.5	98	0.00	14.96
104	Naphthalene	40.000	50.840	-27.1	123	0.00	15.24
105	1,2,3-Trichlorobenzene	40.000	37.555	6.1	94	0.00	15.41
	----------	AvgRF	CCRF	%Dev		----------	
106 I	Tert Butyl Alcohol-d10	1.000	1.000	0.0	114	0.01	5.29
107	Ethanol	0.142	0.133	6.3	97	0.03	4.30
	----------	Amount	Calc.	%Drift		----------	
108	acrolein	200.000	199.099	0.5	103	0.00	4.74
109	Tert Butyl Alcohol	400.000	479.124	-19.8	130	0.00	5.37
	----------	AvgRF	CCRF	%Dev		----------	
110	tert Amyl alcohol	1.009	1.040	-3.1	118	0.00	7.56
111	Isobutyl alcohol	0.464	0.471	-1.5	115	0.00	7.44
	----------	Amount	Calc.	%Drift		----------	
112	1,4-Dioxane	800.000	769.008	3.9	98	0.00	8.66
113	3,3-Dimethyl-1-butanol	2000.000	2007.488	-0.4	124	0.00	10.42

(#) = Out of Range SPCC's out = 0 CCC's out = 0
J0977750.D MSJ070116a.M Tue Jul 05 07:59:18 2016

6.7.7

6

GC/MS Volatiles

Raw Data

Manual Integrations APPROVED (compounds with "m" flag)
Juan Garcia
07/01/16 12:07

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\063016\
Data File : J0977725.D
Acq On : 30 Jun 2016 1:14 pm
Operator : darshnap
Sample : fa34891-1ma Inst : MSVOA6
Misc : MS34294,vj5358,,,,,
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 30 14:17:38 2016
Quant Method : C:\msdchem\1\methods\MSJ062116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 21 11:35:53 2016
Response via : Initial Calibration

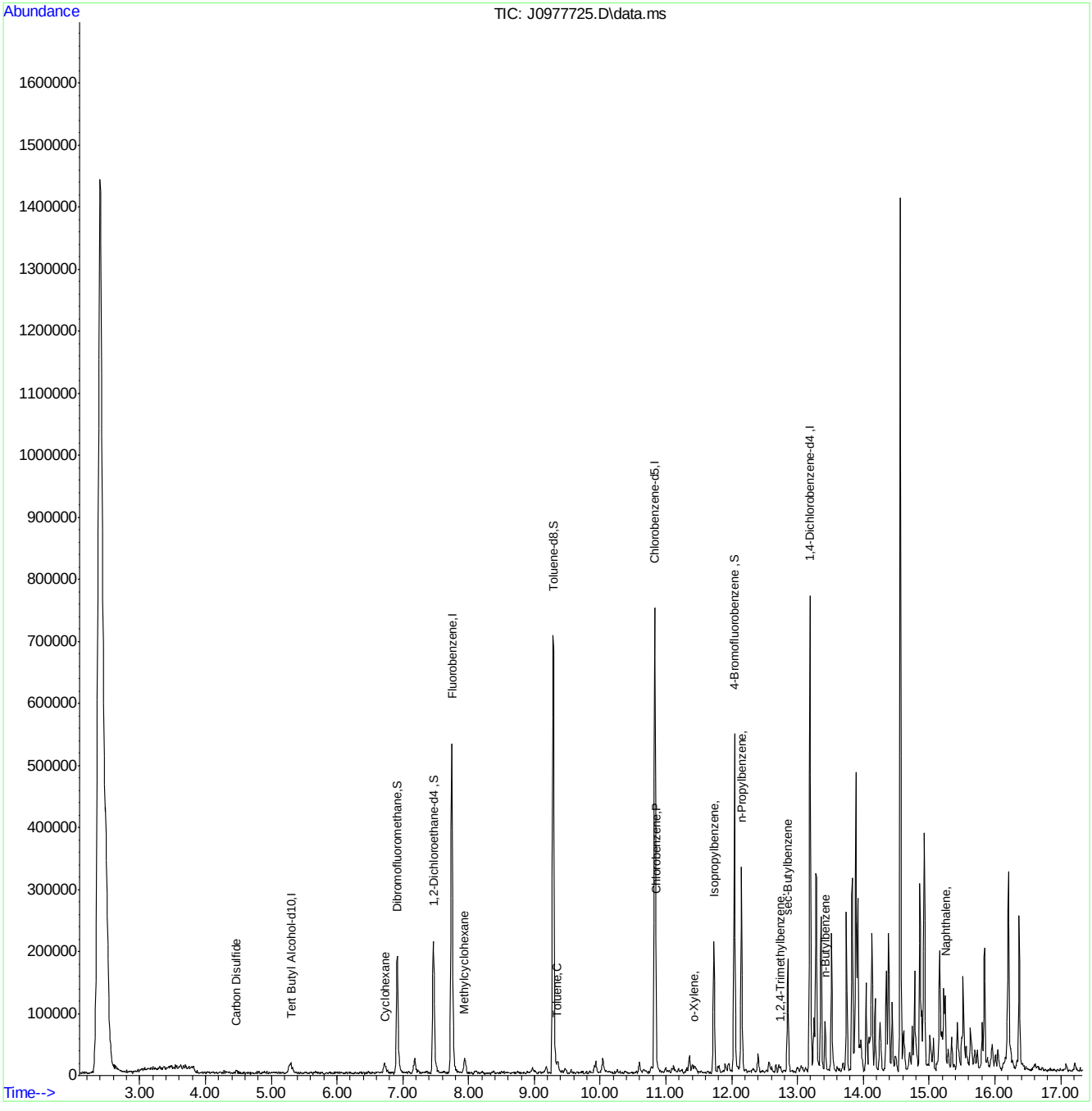
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.746	96	466913	50.00	ug/L	0.00
56) Chlorobenzene-d5	10.830	117	316547	50.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	13.192	152	158368	50.00	ug/L	0.00
106) Tert Butyl Alcohol-d10	5.301	65	27379	250.00	ug/L	0.00
System Monitoring Compounds						
36) Dibromofluoromethane	6.917	113	115317	46.93	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 93.86%			
46) 1,2-Dichloroethane-d4	7.469	65	153978	42.94	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 85.88%			
57) Toluene-d8	9.285	98	433600	51.82	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 103.64%			
79) 4-Bromofluorobenzene	12.041	95	153133	50.33	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 100.66%			
Target Compounds						Qvalue
13) Carbon Disulfide	4.467	76	4103	0.52	ug/L	78
32) Cyclohexane	6.735	56	10025	2.27	ug/L #	68
49) Methylcyclohexane	7.940	83	8308	1.84	ug/L	89
58) Toluene	9.344	91	3403	0.33	ug/L	68
71) Chlorobenzene	10.848	112	2377	0.37	ug/L	77
74) o-Xylene	11.424	91	5667	0.58	ug/L	81
77) Isopropylbenzene	11.729	105	111096	10.02	ug/L	100
81) n-Propylbenzene	12.146	91	218663	17.31	ug/L	97
92) 1,2,4-Trimethylbenzene	12.740	105	2835	0.30	ug/L	74
94) sec-Butylbenzene	12.852	105	84794	7.55	ug/L	89
98) n-Butylbenzene	13.421	92	19453	3.58	ug/L #	77
104) Naphthalene	15.249	128	19893m	4.44	ug/L	

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

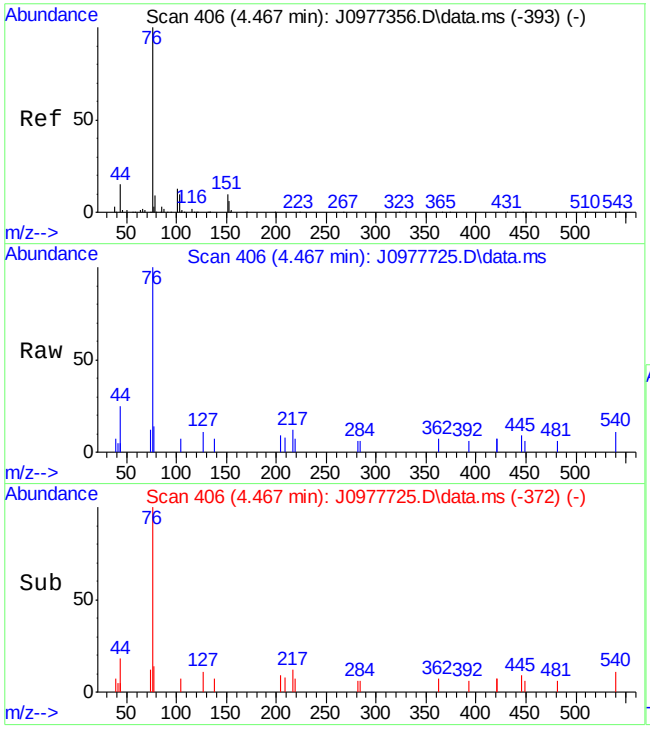
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\063016\
Data File : J0977725.D
Acq On : 30 Jun 2016 1:14 pm
Operator : darshnap
Sample : fa34891-1ma Inst : MSVOA6
Misc : MS34294,vj5358,,,,,
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 30 14:17:38 2016
Quant Method : C:\msdchem\1\methods\MSJ062116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 21 11:35:53 2016
Response via : Initial Calibration



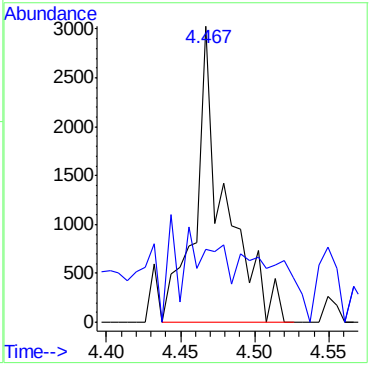
MSJ062116a.M Fri Jul 01 08:06:28 2016 Page: 2

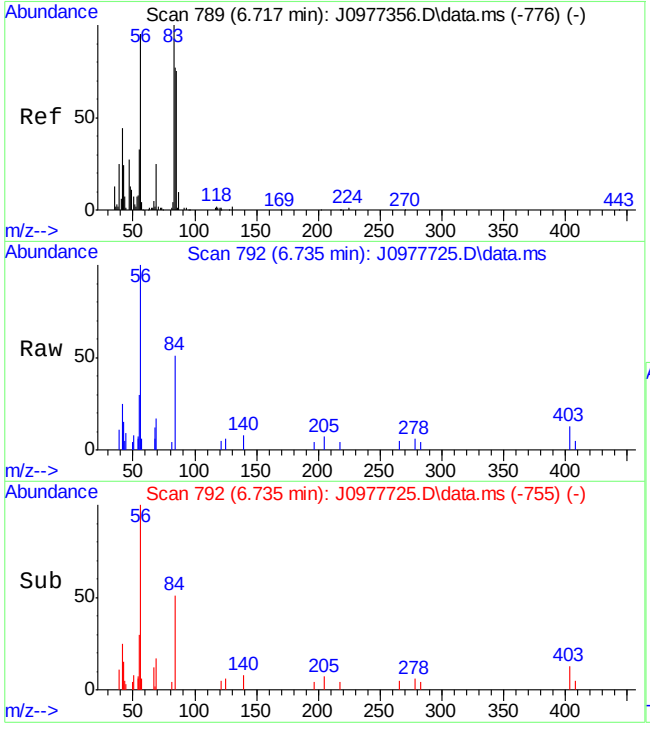


#13
Carbon Disulfide
Concen: 0.52 ug/L
RT: 4.467 min Scan# 406
Delta R.T. 0.000 min
Lab File: J0977725.D
Acq: 30 Jun 2016 1:14 pm

Tgt Ion: 76 Resp: 4103

Ion	Ratio	Lower	Upper
76	100		
44	24.8	0.0	45.5

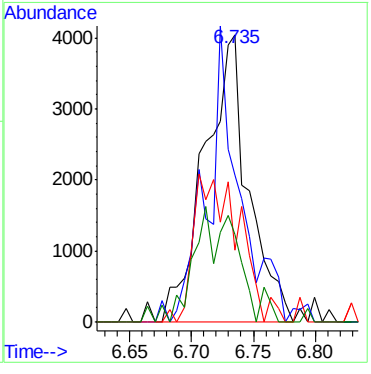


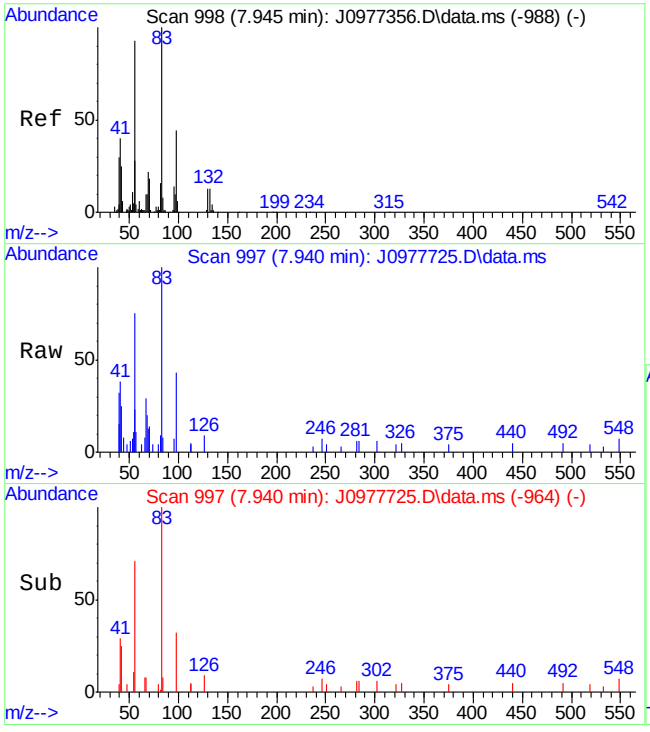


#32
Cyclohexane
Concen: 2.27 ug/L
RT: 6.735 min Scan# 792
Delta R.T. 0.018 min
Lab File: J0977725.D
Acq: 30 Jun 2016 1:14 pm

Tgt Ion: 56 Resp: 10025

Ion	Ratio	Lower	Upper
56	100		
84	46.8	61.3	101.3#
41	25.2	30.1	70.1#
55	30.4	15.2	55.2

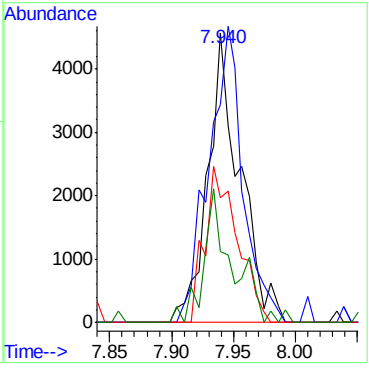


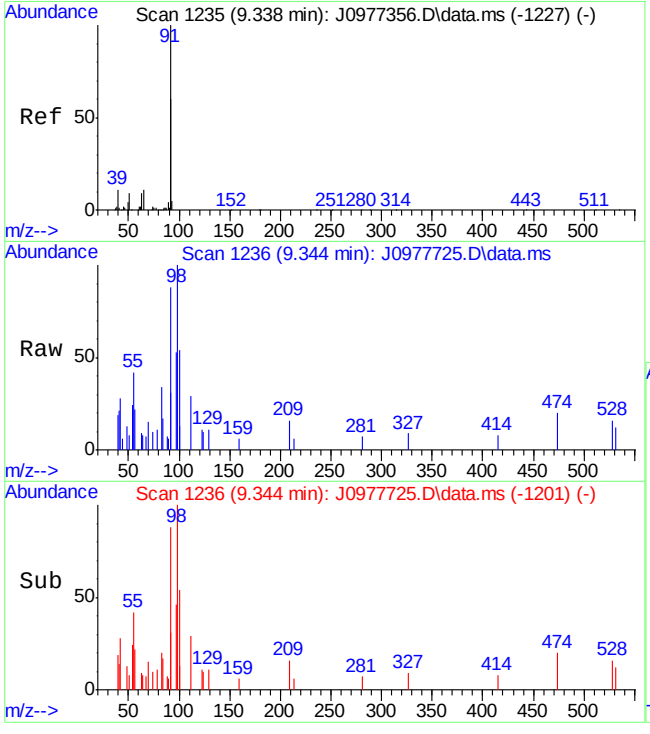


#49
Methylcyclohexane
Concen: 1.84 ug/L
RT: 7.940 min Scan# 997
Delta R.T. -0.006 min
Lab File: J0977725.D
Acq: 30 Jun 2016 1:14 pm

Tgt Ion: 83 Resp: 8308

Ion	Ratio	Lower	Upper
83	100		
55	75.1	72.8	112.8
98	43.1	23.8	63.8
42	24.6	4.8	44.8

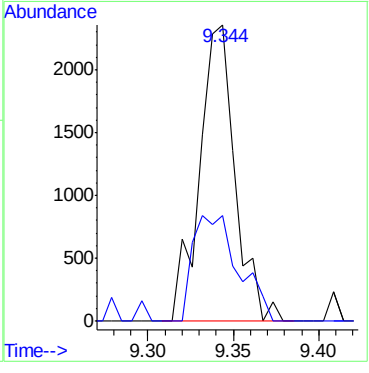


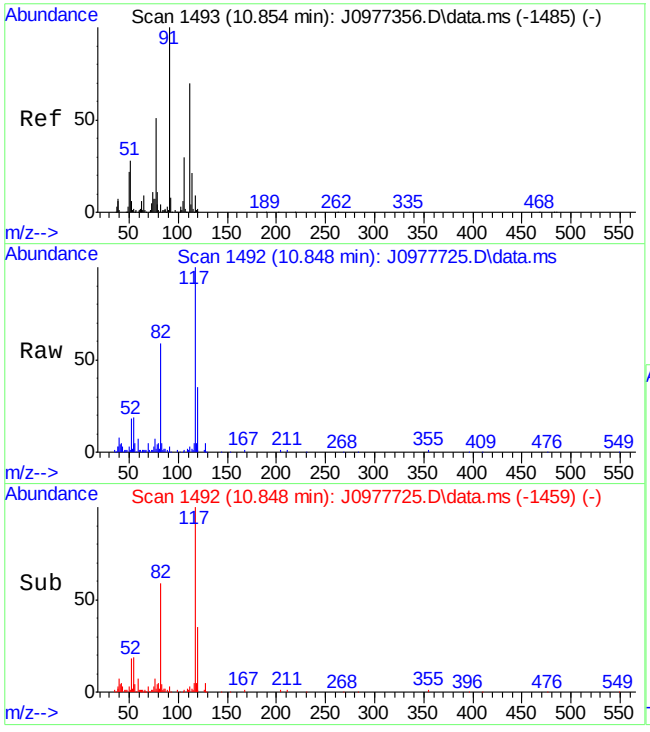


#58
Toluene
Concen: 0.33 ug/L
RT: 9.344 min Scan# 1236
Delta R.T. 0.006 min
Lab File: J0977725.D
Acq: 30 Jun 2016 1:14 pm

Tgt Ion: 91 Resp: 3403

Ion	Ratio	Lower	Upper
91	100		
92	35.7	30.0	90.0

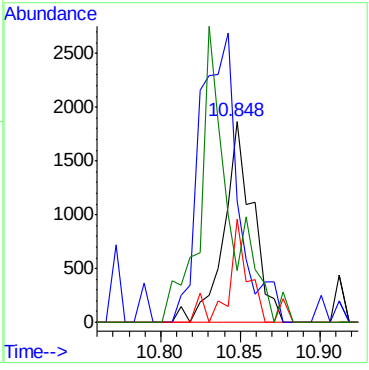


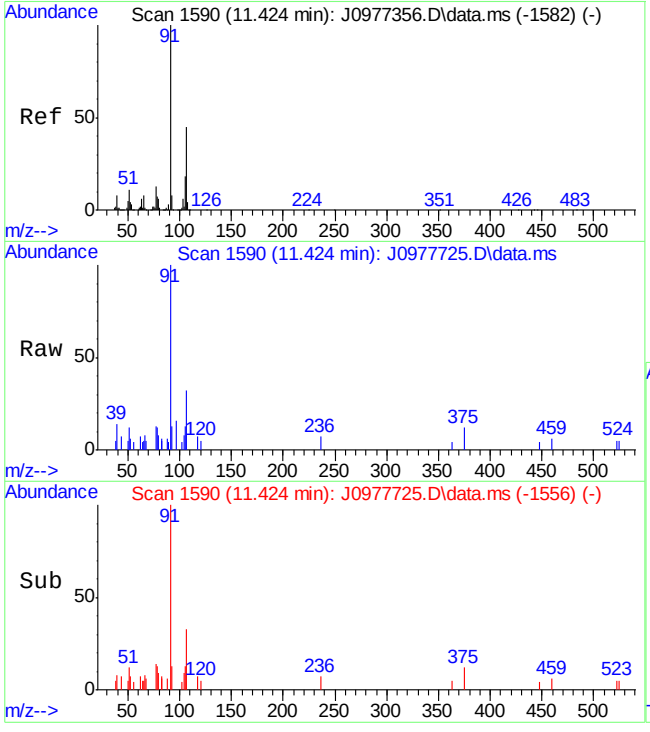


#71
Chlorobenzene
Concen: 0.37 ug/L
RT: 10.848 min Scan# 1492
Delta R.T. -0.006 min
Lab File: J0977725.D
Acq: 30 Jun 2016 1:14 pm

Tgt Ion:112 Resp: 2377

Ion	Ratio	Lower	Upper
112	100		
77	60.2	42.9	102.9
114	51.5	0.0	59.4
51	25.5	9.3	69.3

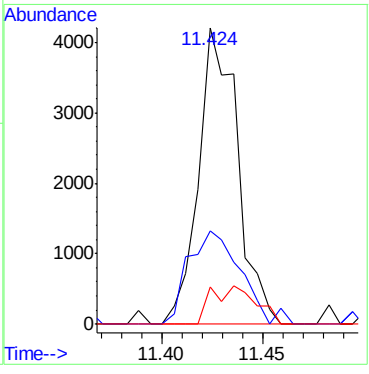


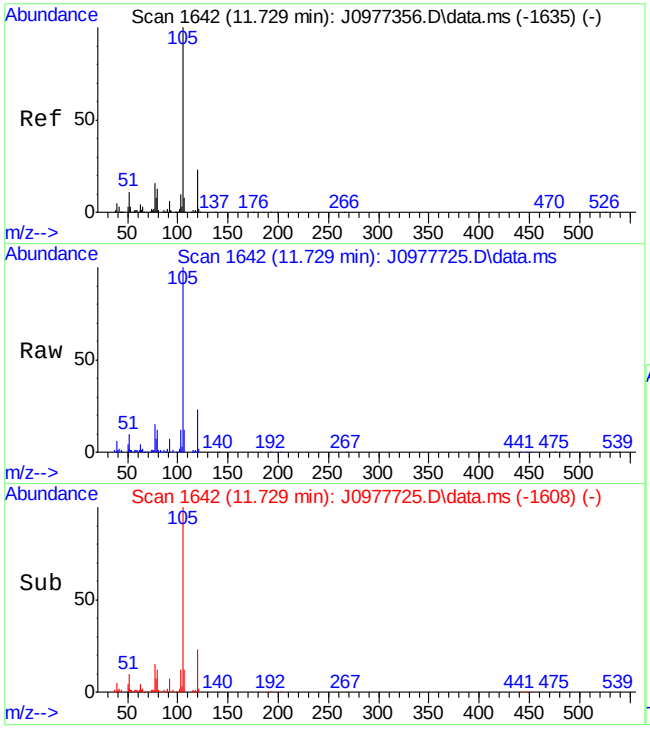


#74
o-Xylene
Concen: 0.58 ug/L
RT: 11.424 min Scan# 1590
Delta R.T. 0.000 min
Lab File: J0977725.D
Acq: 30 Jun 2016 1:14 pm

Tgt Ion: 91 Resp: 5667

Ion	Ratio	Lower	Upper
91	100		
106	31.5	15.4	75.4
105	12.7	0.0	47.9

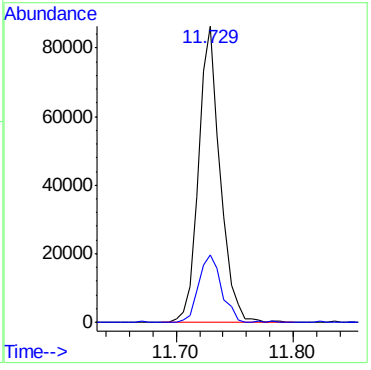


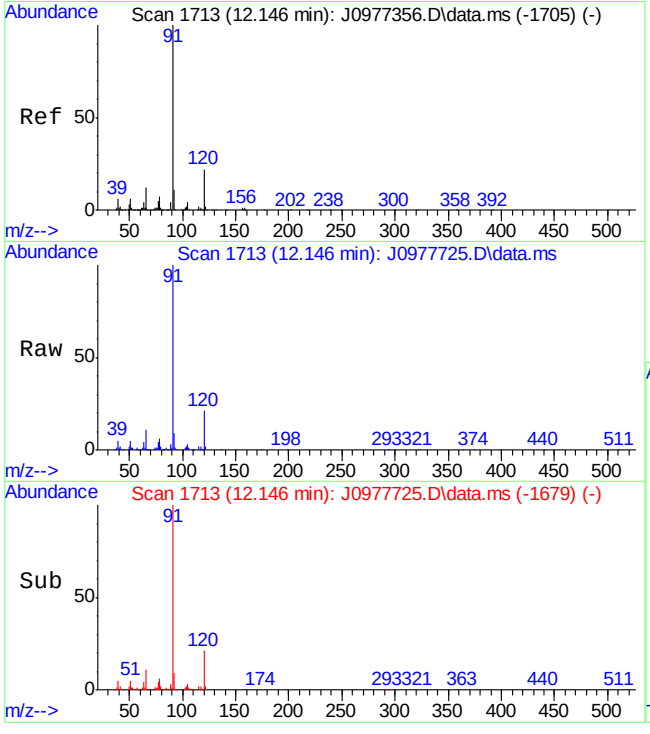


#77
Isopropylbenzene
Concen: 10.02 ug/L
RT: 11.729 min Scan# 1642
Delta R.T. 0.000 min
Lab File: J0977725.D
Acq: 30 Jun 2016 1:14 pm

Tgt Ion:105 Resp: 111096

Ion	Ratio	Lower	Upper
105	100		
120	22.9	0.0	52.9

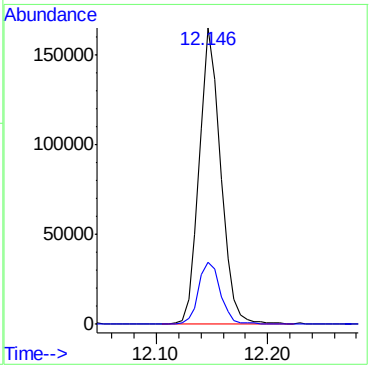


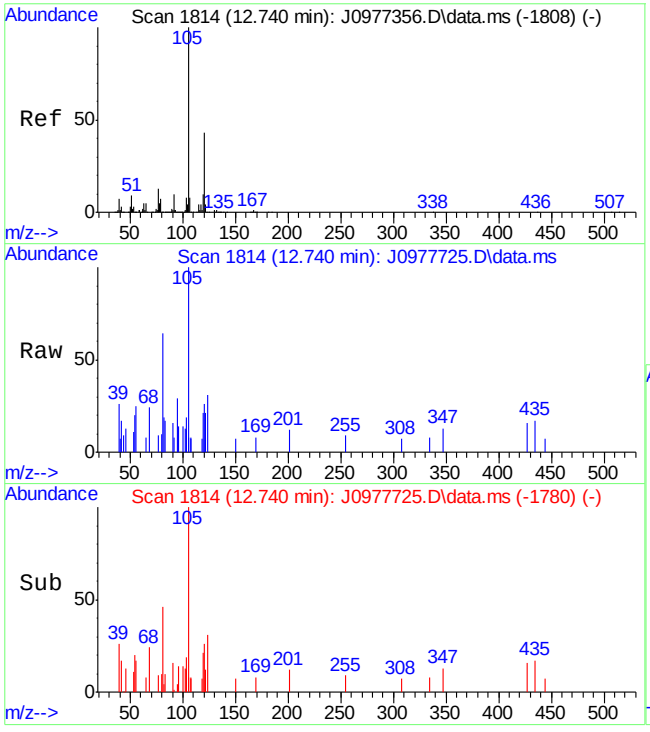


#81
n-Propylbenzene
Concen: 17.31 ug/L
RT: 12.146 min Scan# 1713
Delta R.T. 0.000 min
Lab File: J0977725.D
Acq: 30 Jun 2016 1:14 pm

Tgt Ion: 91 Resp: 218663

Ion	Ratio	Lower	Upper
91	100		
120	20.7	0.0	52.4

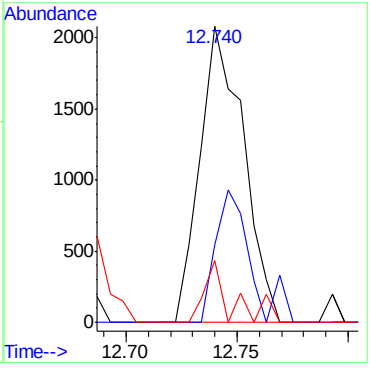


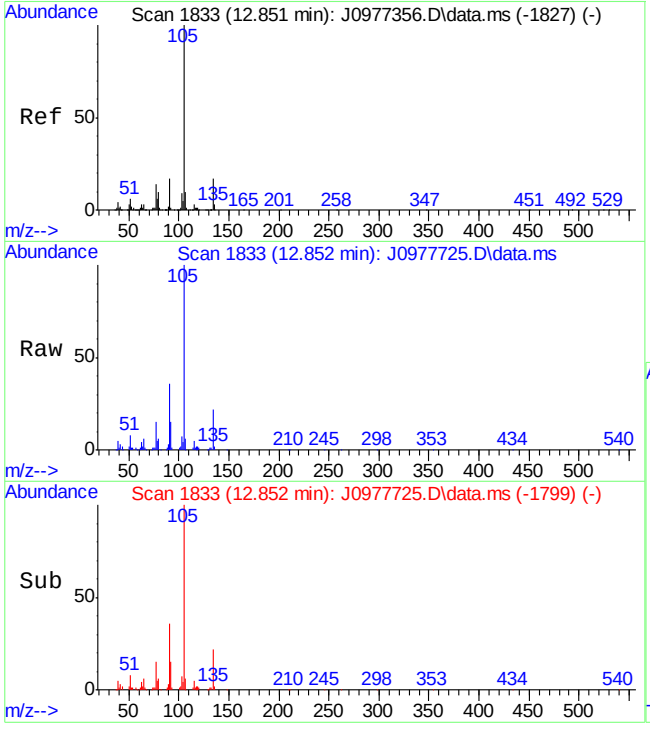


#92
1,2,4-Trimethylbenzene
Concen: 0.30 ug/L
RT: 12.740 min Scan# 1814
Delta R.T. 0.000 min
Lab File: J0977725.D
Acq: 30 Jun 2016 1:14 pm

Tgt Ion:105 Resp: 2835

Ion	Ratio	Lower	Upper
105	100		
120	26.2	13.4	73.4
119	20.8	0.0	42.4

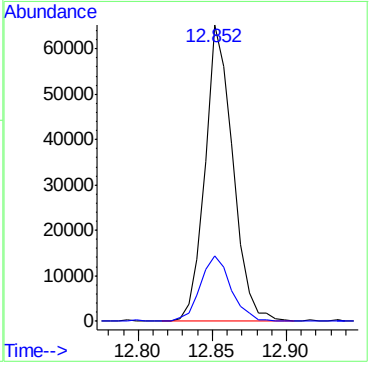


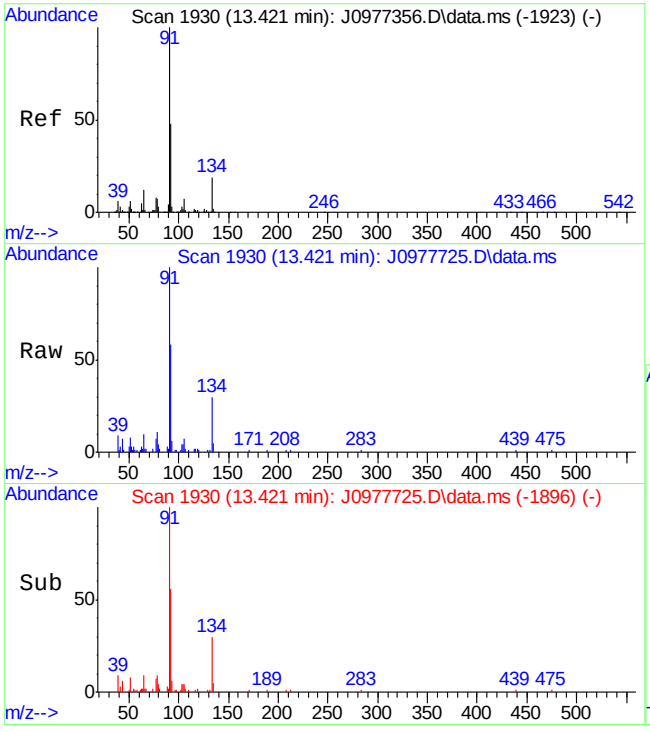


#94
sec-Butylbenzene
Concen: 7.55 ug/L
RT: 12.852 min Scan# 1833
Delta R.T. 0.000 min
Lab File: J0977725.D
Acq: 30 Jun 2016 1:14 pm

Tgt Ion:105 Resp: 84794

Ion	Ratio	Lower	Upper
105	100		
134	22.2	0.0	47.4

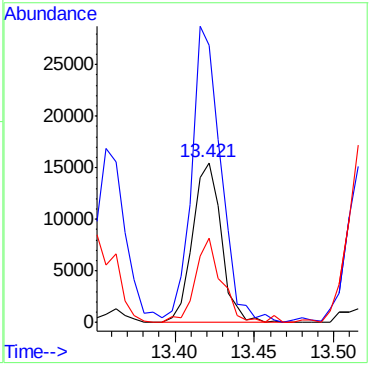


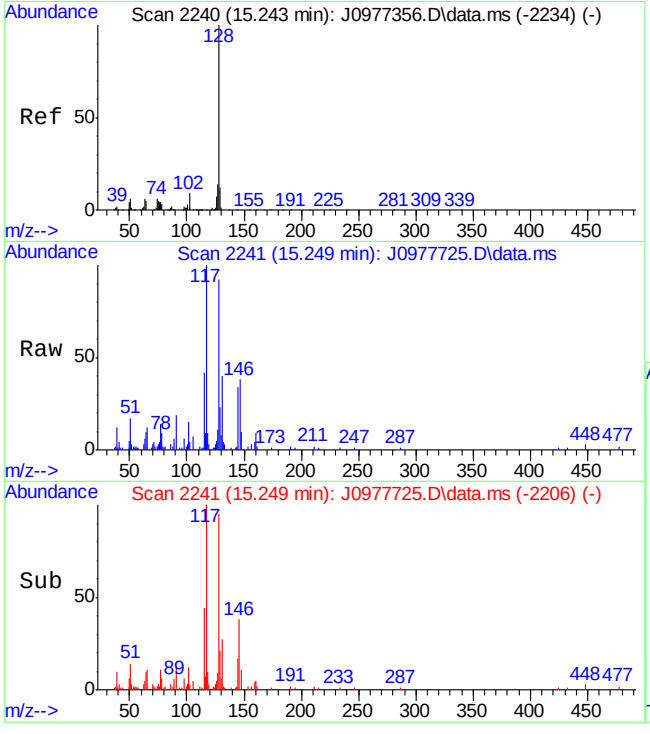


#98
n-Butylbenzene
Concen: 3.58 ug/L
RT: 13.421 min Scan# 1930
Delta R.T. 0.000 min
Lab File: J0977725.D
Acq: 30 Jun 2016 1:14 pm

Tgt Ion: 92 Resp: 19453

Ion	Ratio	Lower	Upper
92	100		
91	172.2	178.7	238.7#
134	53.0	9.5	69.5

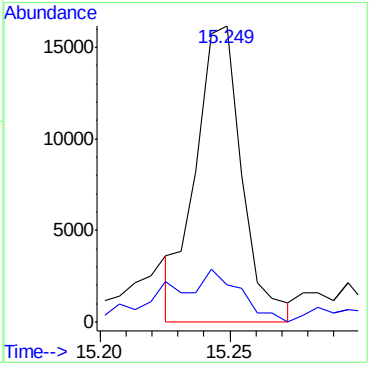




#104
Naphthalene
Concen: 4.44 ug/L m
RT: 15.249 min Scan# 2241
Delta R.T. 0.006 min
Lab File: J0977725.D
Acq: 30 Jun 2016 1:14 pm

Tgt Ion:128 Resp: 19893

Ion	Ratio	Lower	Upper
128	100		
127	12.5	0.0	43.9



Manual Integration Approval Summary

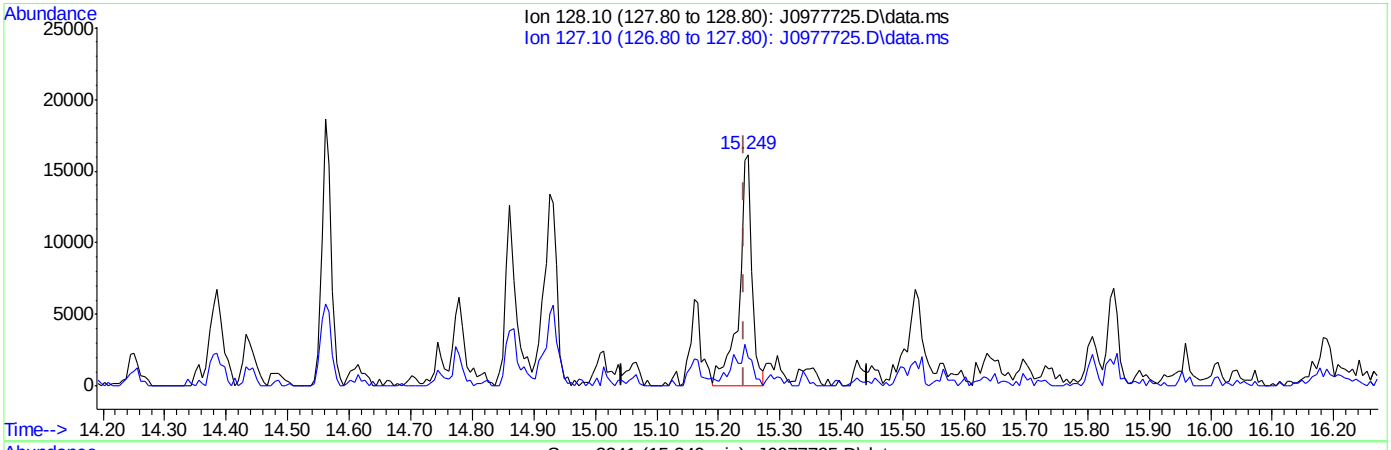
Sample Number:	FA34891-1	**Method:**	SW846 8260C
Lab FileID:	J0977725.D	**Analyst approved:**	07/01/16 10:25 Darshna Patel
Injection Time:	06/30/16 13:14	**Supervisor approved:**	07/01/16 12:07 Juan Garcia

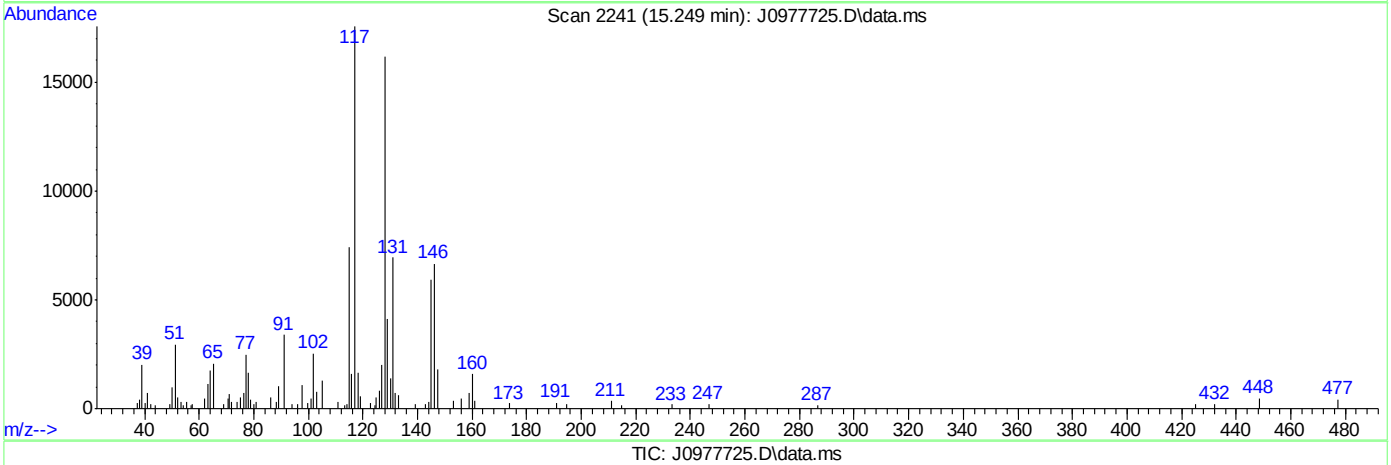
Parameter	CAS	Sig#	R.T. (min.)	Reason
Naphthalene	91-20-3		15.25	Poor instrument integration

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\063016\
Data File : J0977725.D
Acq On : 30 Jun 2016 1:14 pm
Operator : darshnap
Sample : fa34891-1ma Inst : MSVOA6
Misc : MS34294,vj5358,,,,,
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 30 14:15:59 2016
Quant Method : C:\msdchem\1\methods\MSJ062116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 21 11:35:53 2016
Response via : Initial Calibration





(104) Naphthalene ( )

15.249min (+0.006) 5.38ug/L

response 24208

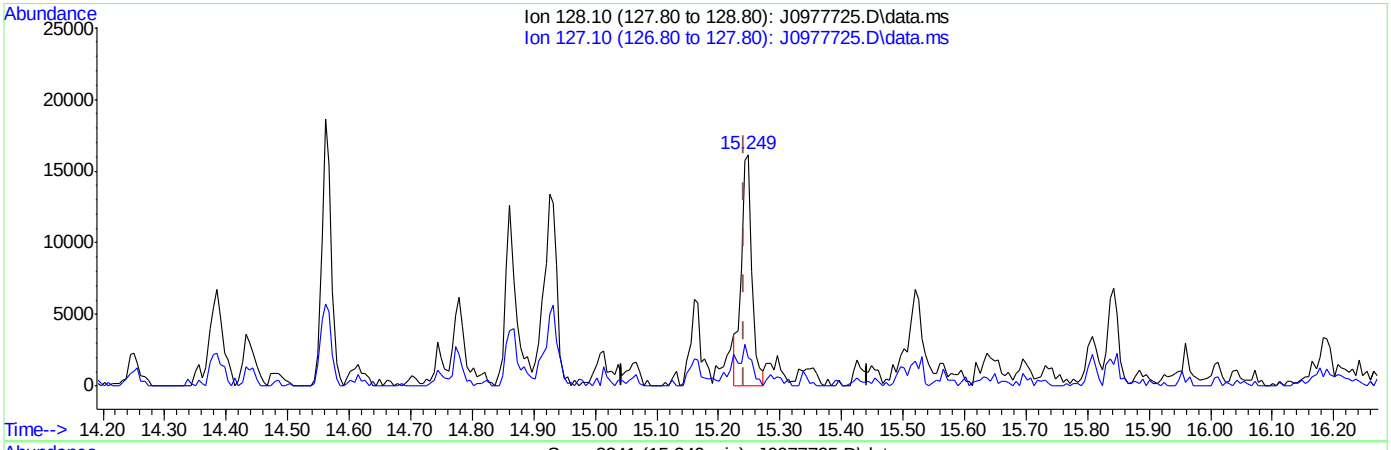
Ion	Exp%	Act%
128.10	100	100
127.10	13.90	12.62
0.00	0.00	0.00
0.00	0.00	0.00

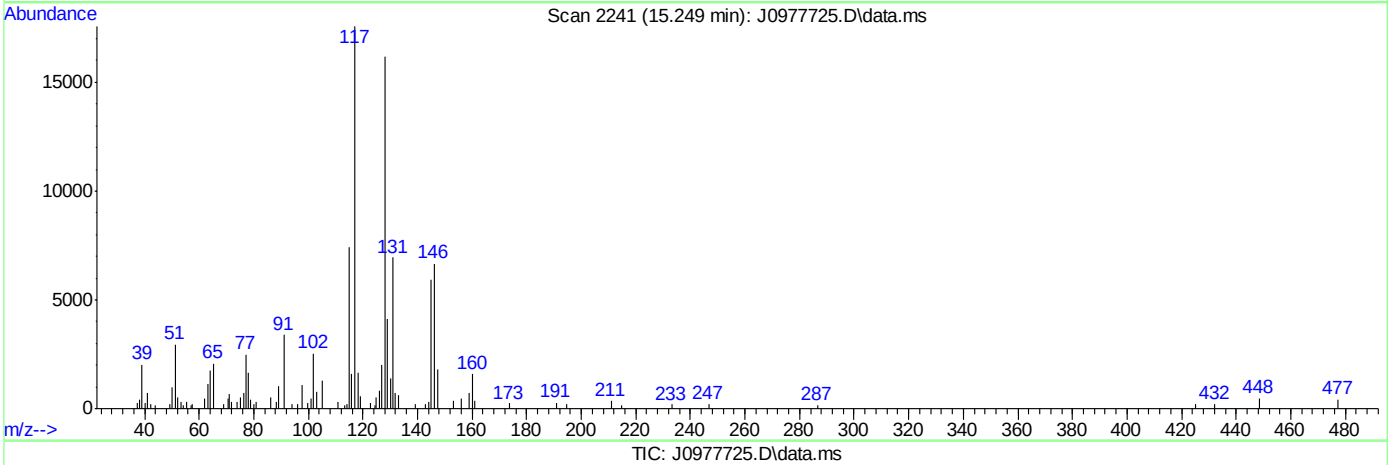
SGS ACCUTEST FA34891

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\063016\
Data File : J0977725.D
Acq On : 30 Jun 2016 1:14 pm
Operator : darshnap
Sample : fa34891-1ma Inst : MSVOA6
Misc : MS34294,vj5358,,,,,
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 30 14:15:59 2016
Quant Method : C:\msdchem\1\methods\MSJ062116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 21 11:35:53 2016
Response via : Initial Calibration





(104) Naphthalene ( )

15.249min (+0.006) 4.44ug/L m

response 19893

Ion	Exp%	Act%
128.10	100	100
127.10	13.90	12.50
0.00	0.00	0.00
0.00	0.00	0.00

SGS ACCUTEST FA34891

Manual Integrations APPROVED (compounds with "m" flag)
Juan Garcia
07/05/16 13:51

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\063016\
Data File : J0977730.D
Acq On : 30 Jun 2016 3:08 pm
Operator : darshnap
Sample : fa34891-2 ma Inst : MSVOA6
Misc : MS34294,vj5358,,,,,5
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jul 01 07:55:39 2016
Quant Method : C:\msdchem\1\methods\MSJ062116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 21 11:35:53 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.746	96	442335	50.00	ug/L	0.00
56) Chlorobenzene-d5	10.830	117	296907	50.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	13.192	152	143560	50.00	ug/L	0.00
106) Tert Butyl Alcohol-d10	5.301	65	30852m	250.00	ug/L	0.00
System Monitoring Compounds						
36) Dibromofluoromethane	6.917	113	110809	47.60	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 95.20%			
46) 1,2-Dichloroethane-d4	7.464	65	142822	42.04	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 84.08%			
57) Toluene-d8	9.285	98	372115	47.42	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 94.84%			
79) 4-Bromofluorobenzene	12.041	95	133456	48.39	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 96.78%			
Target Compounds						Qvalue
21) Methyl Tert Butyl Ether	5.319	73	6612	0.93	ug/L #	70
44) Benzene	7.358	78	5972	0.65	ug/L	58
70) Ethylbenzene	10.848	91	173816	15.69	ug/L	89
73) m,p-Xylene	10.983	91	468257	54.68	ug/L	97
77) Isopropylbenzene	11.729	105	25814	2.48	ug/L	57
81) n-Propylbenzene	12.146	91	13549	1.18	ug/L	82
109) Tert Butyl Alcohol	5.378	59	9201m	51.95	ug/L	

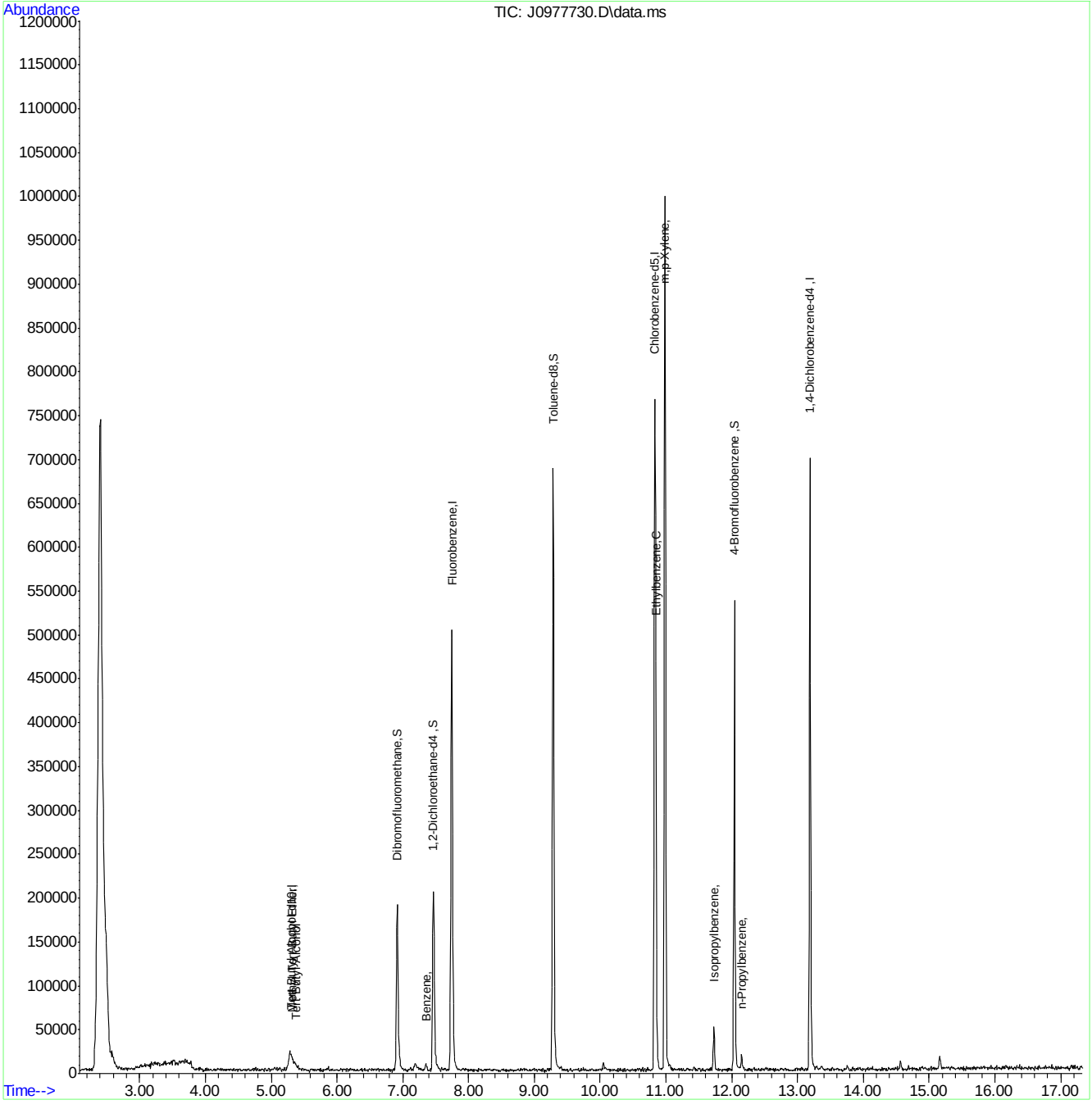
(#) = qualifier out of range (m) = manual integration (+) = signals summed

7.1.2
7

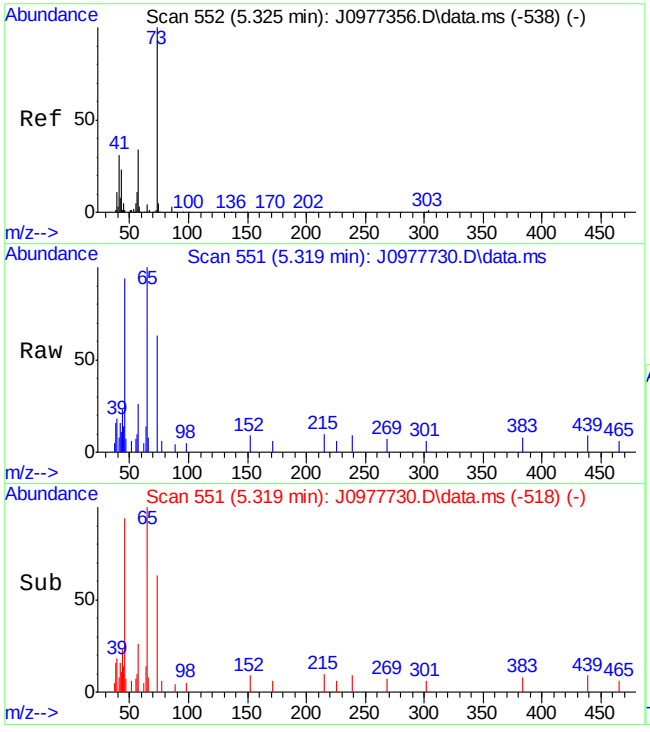
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\063016\
Data File : J0977730.D
Acq On : 30 Jun 2016 3:08 pm
Operator : darshnap
Sample : fa34891-2 ma Inst : MSVOA6
Misc : MS34294,vj5358,,,,,5
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jul 01 07:55:39 2016
Quant Method : C:\msdchem\1\methods\MSJ062116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 21 11:35:53 2016
Response via : Initial Calibration



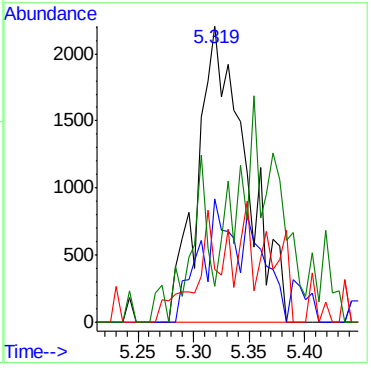
MSJ062116a.M Fri Jul 01 08:06:39 2016 Page: 2

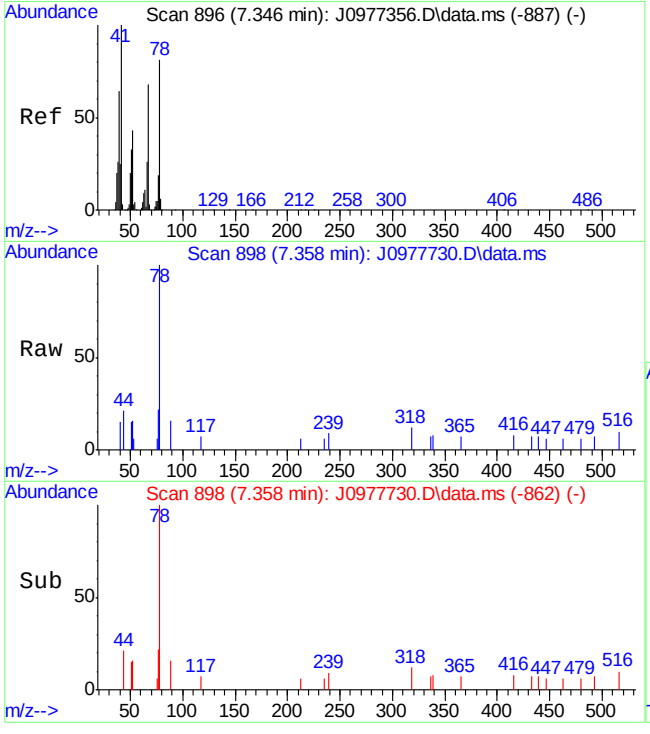


#21
Methyl Tert Butyl Ether
Concen: 0.93 ug/L
RT: 5.319 min Scan# 551
Delta R.T. -0.006 min
Lab File: J0977730.D
Acq: 30 Jun 2016 3:08 pm

Tgt Ion: 73 Resp: 6612

Ion	Ratio	Lower	Upper
73	100		
57	41.8	5.3	65.3
43	18.0	0.7	60.7
41	0.0	1.7	61.7#

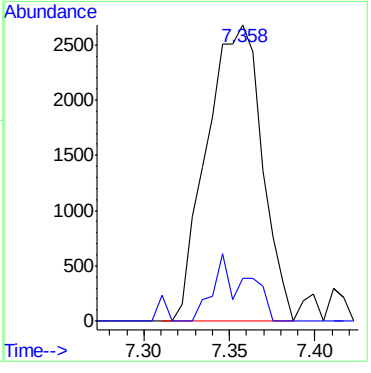


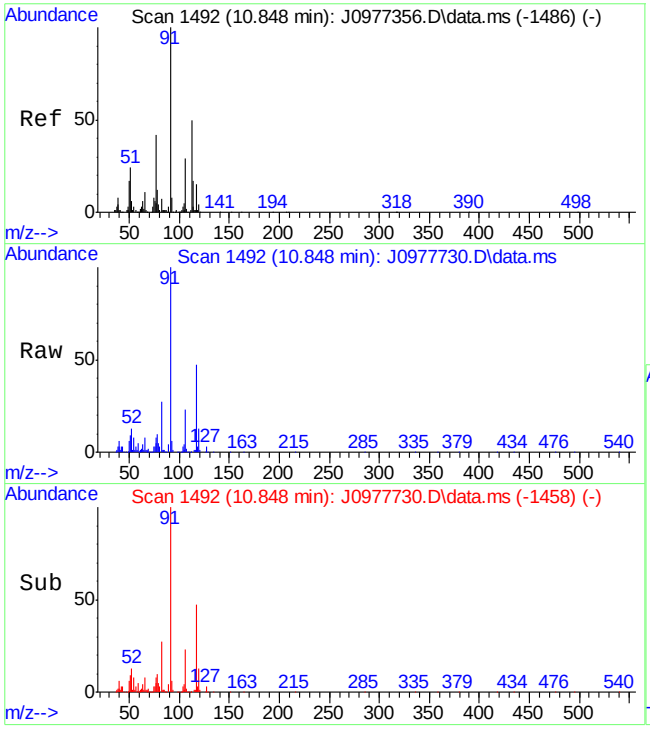


#44
Benzene
Concen: 0.65 ug/L
RT: 7.358 min Scan# 898
Delta R.T. 0.012 min
Lab File: J0977730.D
Acq: 30 Jun 2016 3:08 pm

Tgt Ion: 78 Resp: 5972

Ion	Ratio	Lower	Upper
78	100		
51	14.6	10.9	70.9

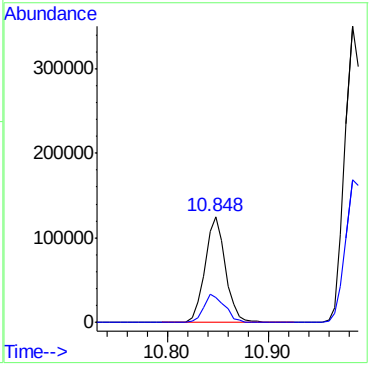


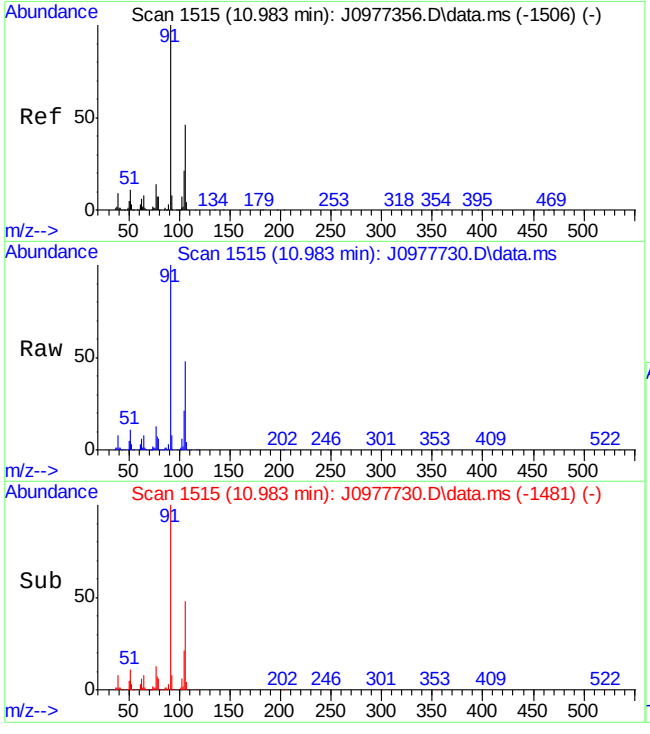


#70
Ethylbenzene
Concen: 15.69 ug/L
RT: 10.848 min Scan# 1492
Delta R.T. 0.000 min
Lab File: J0977730.D
Acq: 30 Jun 2016 3:08 pm

Tgt Ion: 91 Resp: 173816

Ion	Ratio	Lower	Upper
91	100		
106	23.5	0.0	59.4

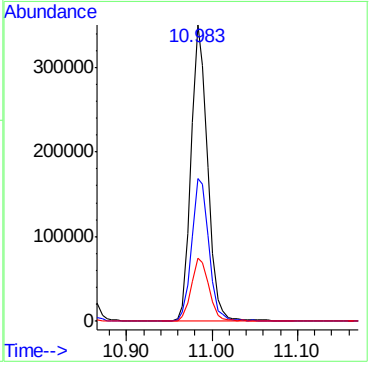




#73
m,p-Xylene
Concen: 54.68 ug/L
RT: 10.983 min Scan# 1515
Delta R.T. 0.000 min
Lab File: J0977730.D
Acq: 30 Jun 2016 3:08 pm

Tgt Ion: 91 Resp: 468257

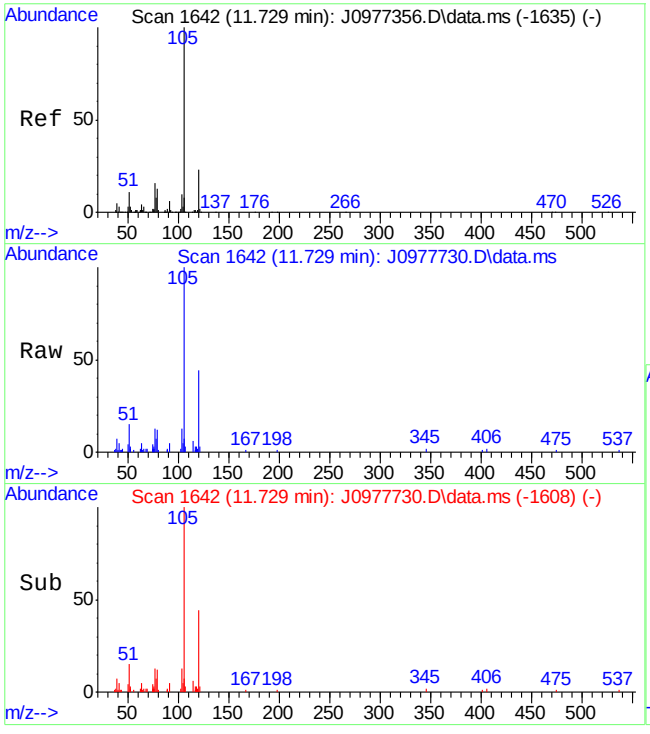
Ion	Ratio	Lower	Upper
91	100		
106	48.1	15.7	75.7
105	21.2	0.0	50.9



7.1.2

7

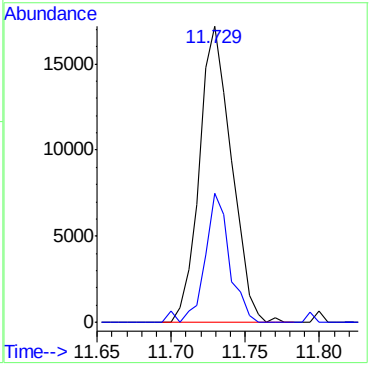
SGS ACCUTEST FA34891

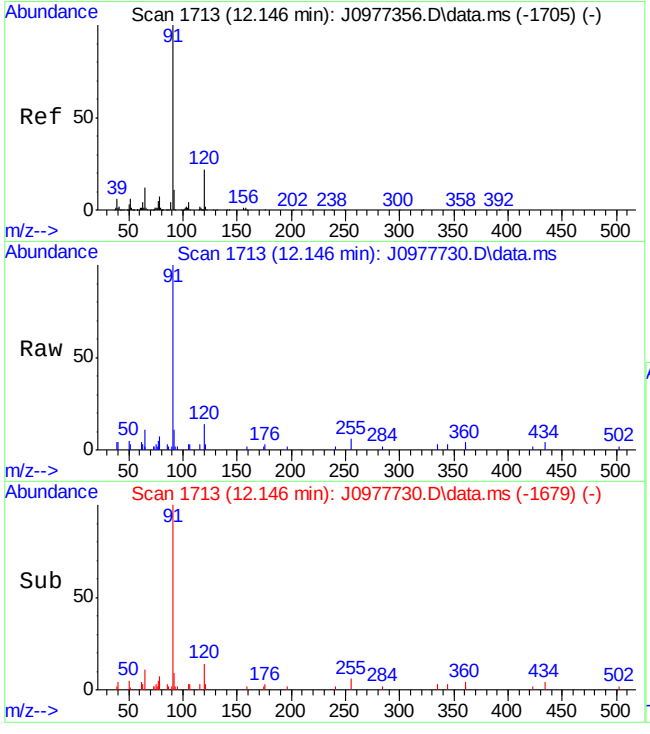


#77
Isopropylbenzene
Concen: 2.48 ug/L
RT: 11.729 min Scan# 1642
Delta R.T. 0.000 min
Lab File: J0977730.D
Acq: 30 Jun 2016 3:08 pm

Tgt Ion:105 Resp: 25814

Ion	Ratio	Lower	Upper
105	100		
120	43.7	0.0	52.9

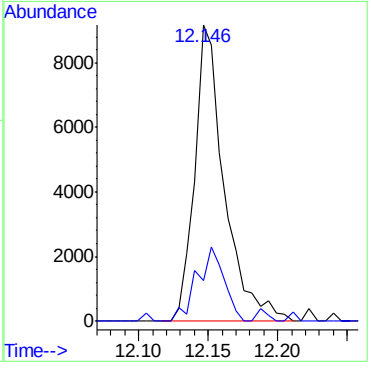


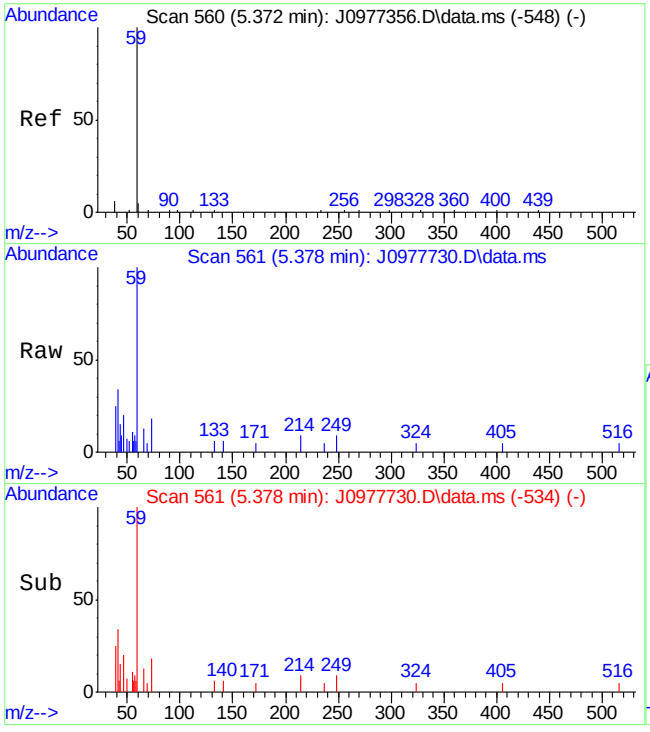


#81
n-Propylbenzene
Concen: 1.18 ug/L
RT: 12.146 min Scan# 1713
Delta R.T. 0.000 min
Lab File: J0977730.D
Acq: 30 Jun 2016 3:08 pm

Tgt Ion: 91 Resp: 13549

Ion	Ratio	Lower	Upper
91	100		
120	13.8	0.0	52.4

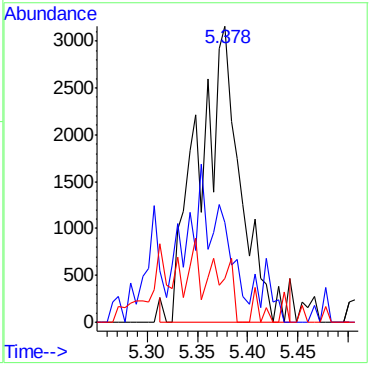




#109
Tert Butyl Alcohol
Concen: 51.95 ug/L m
RT: 5.378 min Scan# 561
Delta R.T. 0.006 min
Lab File: J0977730.D
Acq: 30 Jun 2016 3:08 pm

Tgt Ion: 59 Resp: 9201

Ion	Ratio	Lower	Upper
59	100		
41	33.7	20.7	60.7
43	14.9	11.2	51.2



7.1.2

7

SGS ACCUTEST FA34891

Manual Integration Approval Summary

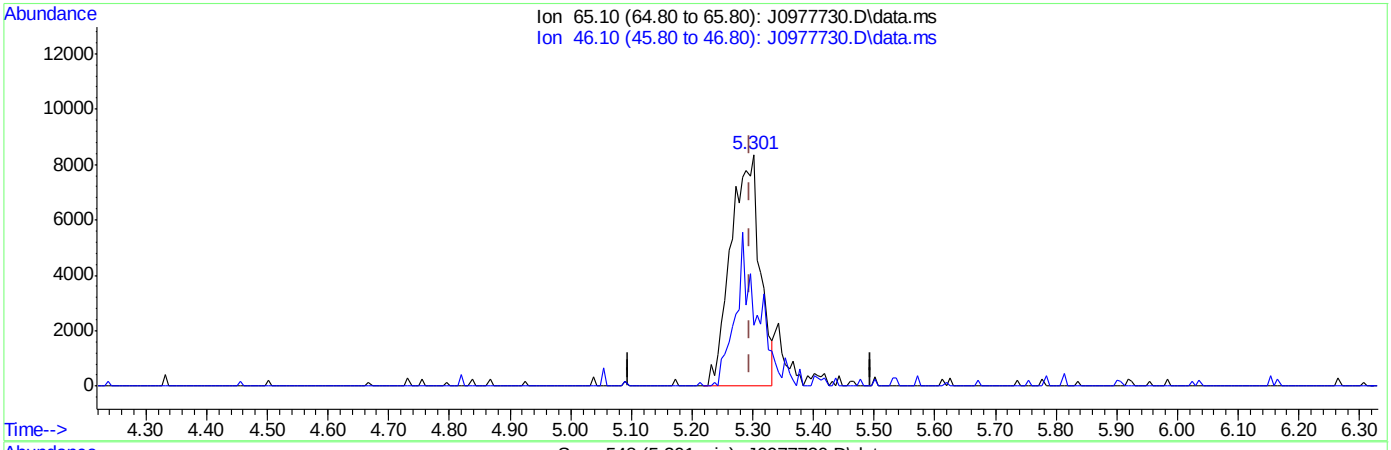
Sample Number:	FA34891-2	**Method:**	SW846 8260C
Lab FileID:	J0977730.D	**Analyst approved:**	07/01/16 10:25 Darshna Patel
Injection Time:	06/30/16 15:08	**Supervisor approved:**	07/05/16 13:51 Juan Garcia

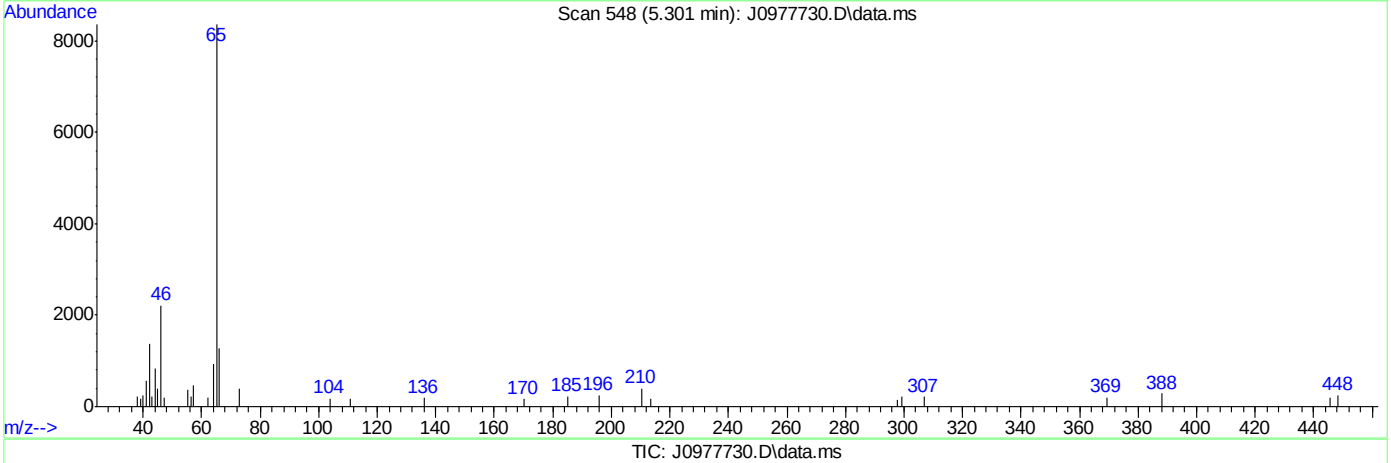
Parameter	CAS	Sig#	R.T. (min.)	Reason
Tert Butyl Alcohol-D10			5.30	Poor instrument integration
Tert-Butyl Alcohol	75-65-0		5.38	Poor instrument integration

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\063016\
Data File : J0977730.D
Acq On : 30 Jun 2016 3:08 pm
Operator : darshnap
Sample : fa34891-2 ma Inst : MSVOA6
Misc : MS34294,vj5358,,,,,5
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jul 01 07:52:59 2016
Quant Method : C:\msdchem\1\methods\MSJ062116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 21 11:35:53 2016
Response via : Initial Calibration





TIC: J0977730.D\data.ms

(106) Tert Butyl Alcohol-d10 (I)

5.301min (+0.006) 250.00ug/L

response 27717

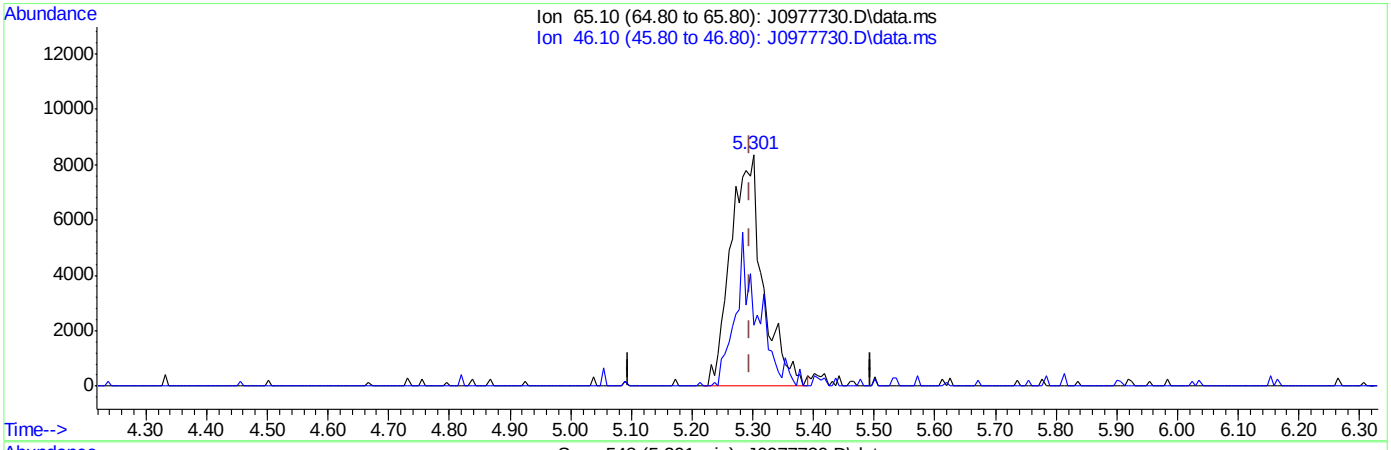
Ion	Exp%	Act%
65.10	100	100
46.10	20.40	26.43
0.00	0.00	0.00
0.00	0.00	0.00

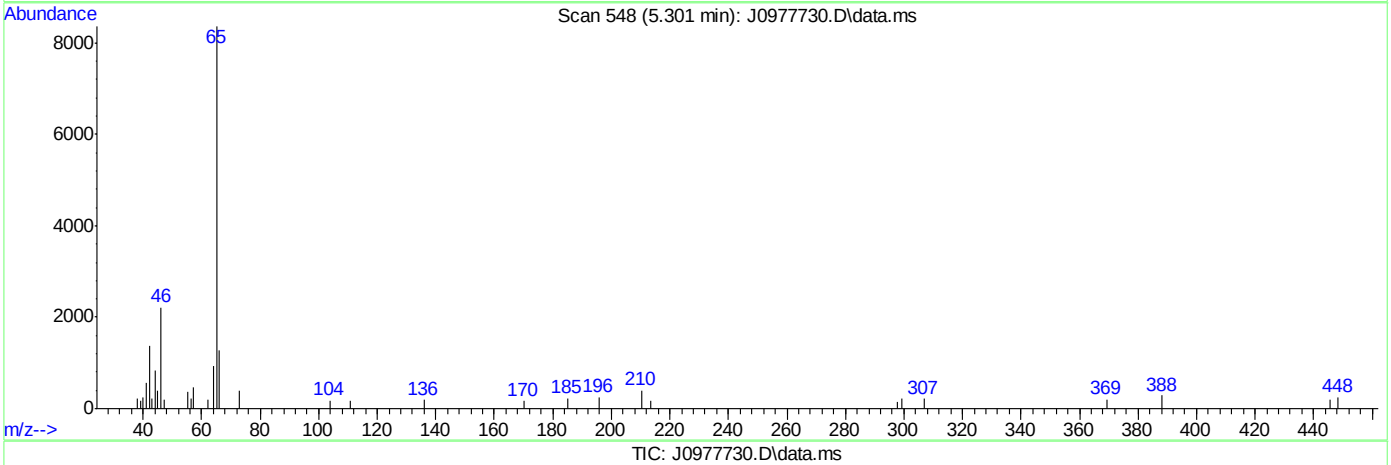
SGS ACCUTEST FA34891

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\063016\
Data File : J0977730.D
Acq On : 30 Jun 2016 3:08 pm
Operator : darshnap
Sample : fa34891-2 ma Inst : MSVOA6
Misc : MS34294,vj5358,,,,,5
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jul 01 07:52:59 2016
Quant Method : C:\msdchem\1\methods\MSJ062116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 21 11:35:53 2016
Response via : Initial Calibration





TIC: J0977730.D\data.ms

(106) Tert Butyl Alcohol-d10 (I)

5.301min (+0.006) 250.00ug/L m

response 30852

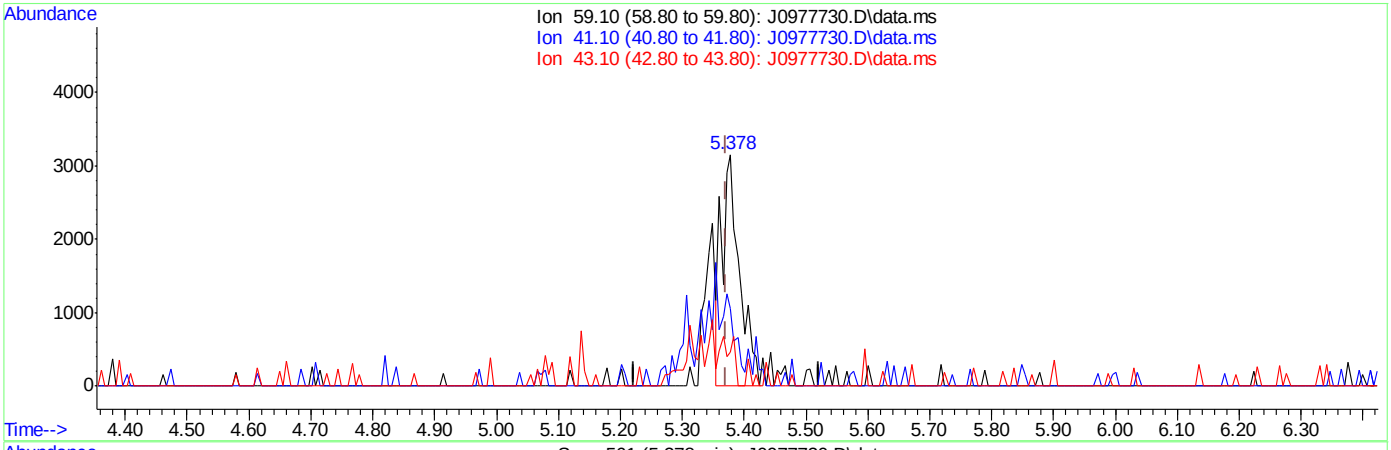
Ion	Exp%	Act%
65.10	100	100
46.10	20.40	26.43
0.00	0.00	0.00
0.00	0.00	0.00

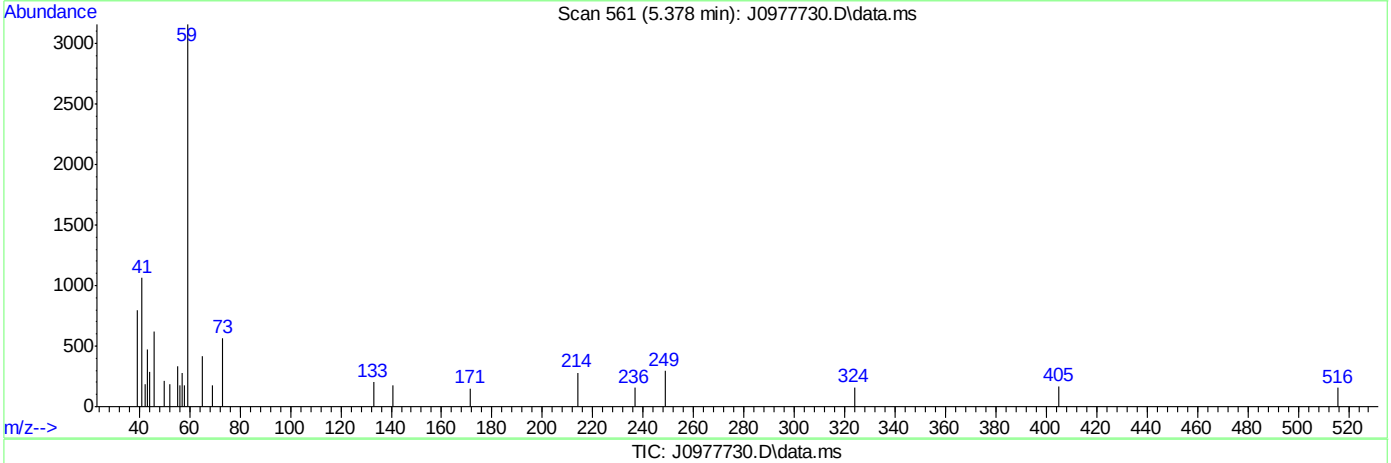
SGS ACCUTEST FA34891

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\063016\
Data File : J0977730.D
Acq On : 30 Jun 2016 3:08 pm
Operator : darshnap
Sample : fa34891-2 ma Inst : MSVOA6
Misc : MS34294,vj5358,,,,,5
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jul 01 07:52:59 2016
Quant Method : C:\msdchem\1\methods\MSJ062116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 21 11:35:53 2016
Response via : Initial Calibration





TIC: J0977730.D\data.ms

(109) Tert Butyl Alcohol

5.378min (+0.006) 35.54ug/L

response 6296

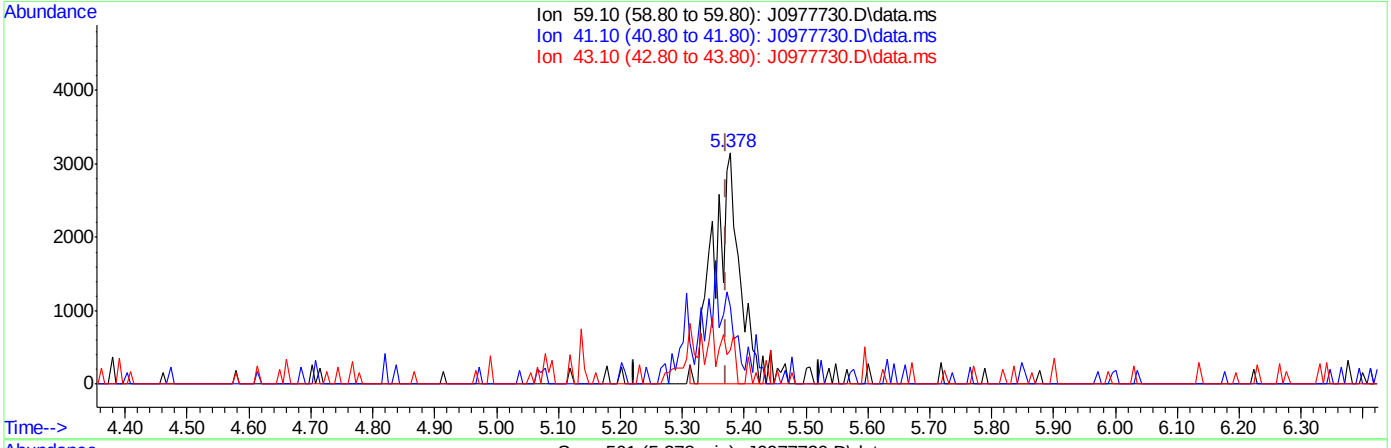
Ion	Exp%	Act%
59.10	100	100
41.10	40.70	26.67
43.10	31.20	14.92
0.00	0.00	0.00

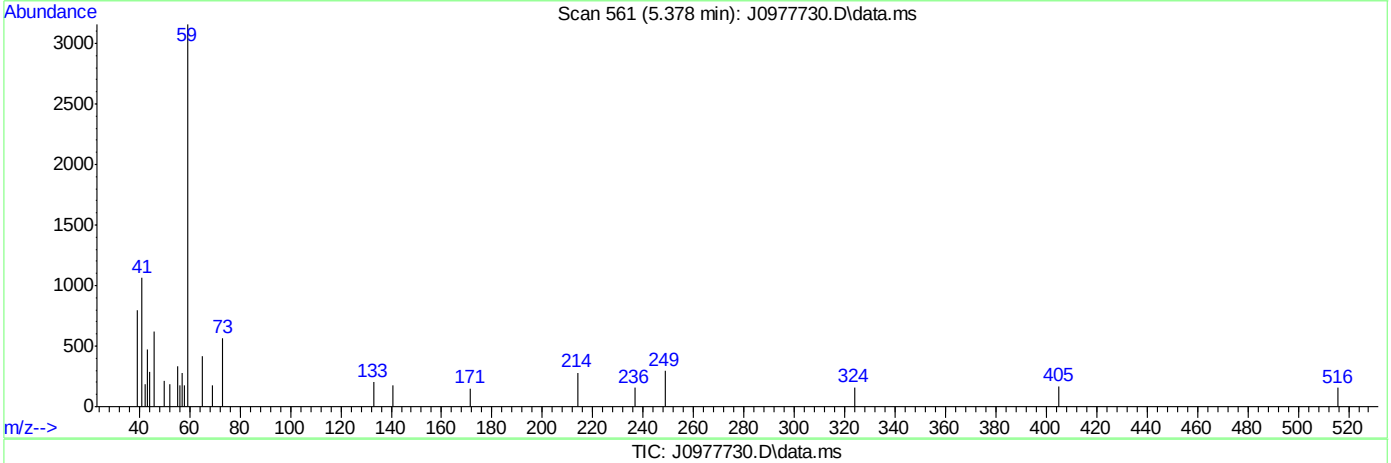
SGS ACCUTEST FA34891

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\063016\
Data File : J0977730.D
Acq On : 30 Jun 2016 3:08 pm
Operator : darshnap
Sample : fa34891-2 ma Inst : MSVOA6
Misc : MS34294,vj5358,,,,,5
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jul 01 07:52:59 2016
Quant Method : C:\msdchem\1\methods\MSJ062116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 21 11:35:53 2016
Response via : Initial Calibration





TIC: J0977730.D\data.ms

(109) Tert Butyl Alcohol

5.378min (+0.006) 51.95ug/L m

response 9201

Ion	Exp%	Act%
59.10	100	100
41.10	40.70	33.70
43.10	31.20	14.92
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\070116\
Data File : J0977759.D
Acq On : 1 Jul 2016 2:25 pm
Operator : darshnap
Sample : fa34891-2 ma Inst : MSVOA6
Misc : MS34294,vj5360,,,,,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jul 05 07:29:17 2016
Quant Method : C:\msdchem\1\methods\MSJ070116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Jul 01 12:56:34 2016
Response via : Initial Calibration

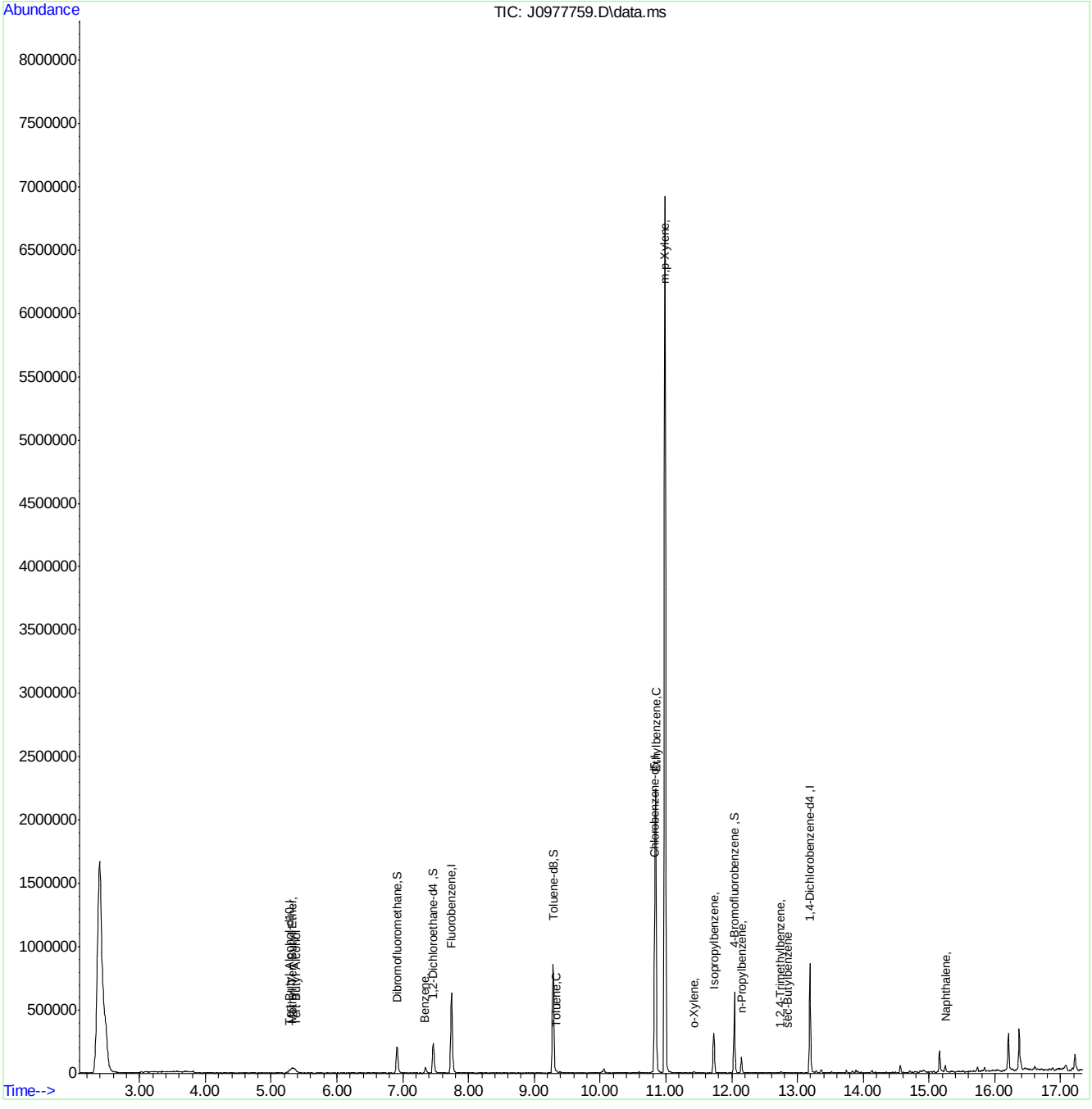
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.740	96	544843	50.00	ug/L	0.00
56) Chlorobenzene-d5	10.830	117	383772	50.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	13.192	152	176027	50.00	ug/L	0.00
106) Tert Butyl Alcohol-d10	5.278	65	29595	250.00	ug/L	0.00
System Monitoring Compounds						
36) Dibromofluoromethane	6.911	113	128726	47.58	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 95.16%			
46) 1,2-Dichloroethane-d4	7.464	65	160757	46.18	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 92.36%			
57) Toluene-d8	9.285	98	514232	51.27	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 102.54%			
79) 4-Bromofluorobenzene	12.041	95	177303	51.53	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 103.06%			
Target Compounds						Qvalue
21) Methyl Tert Butyl Ether	5.325	73	44053	6.11	ug/L	83
44) Benzene	7.340	78	36738	3.27	ug/L	72
58) Toluene	9.338	91	6537	0.46	ug/L	87
70) Ethylbenzene	10.848	91	1094953	76.66	ug/L	98
73) m,p-Xylene	10.983	91	3132476	264.82	ug/L	91
74) o-Xylene	11.424	91	5551	0.56	ug/L	93
77) Isopropylbenzene	11.729	105	184005	14.18	ug/L	99
81) n-Propylbenzene	12.146	91	84683	5.68	ug/L	96
92) 1,2,4-Trimethylbenzene	12.746	105	3008	0.28	ug/L	89
94) sec-Butylbenzene	12.857	105	4213	0.32	ug/L	65
104) Naphthalene	15.249	128	33129	5.68	ug/L	90
109) Tert Butyl Alcohol	5.372	59	43124	290.35	ug/L	68

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

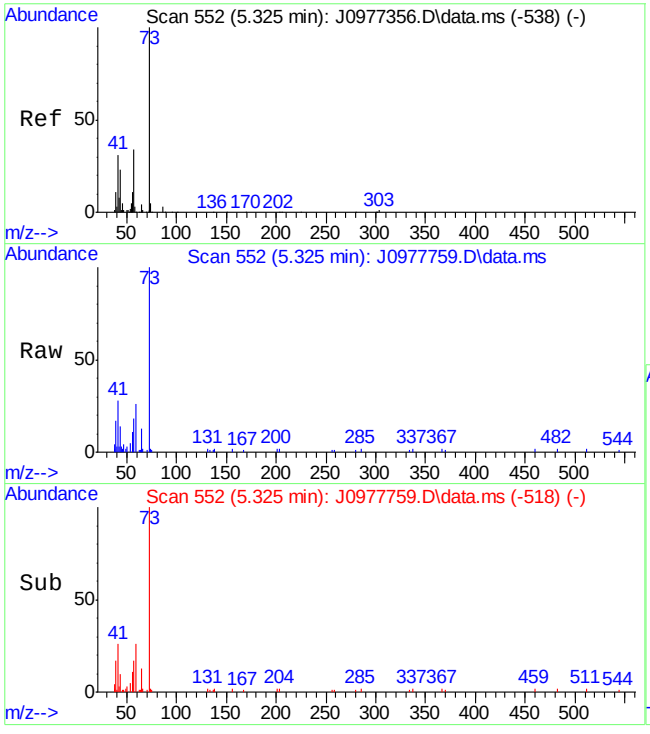
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\070116\
Data File : J0977759.D
Acq On : 1 Jul 2016 2:25 pm
Operator : darshnap
Sample : fa34891-2 ma Inst : MSVOA6
Misc : MS34294,vj5360,,,,,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jul 05 07:29:17 2016
Quant Method : C:\msdchem\1\methods\MSJ070116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Jul 01 12:56:34 2016
Response via : Initial Calibration



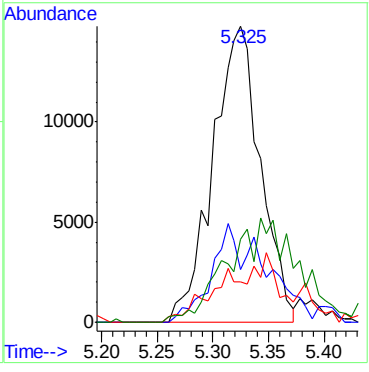
MSJ070116a.M Tue Jul 05 07:53:10 2016 Page: 2

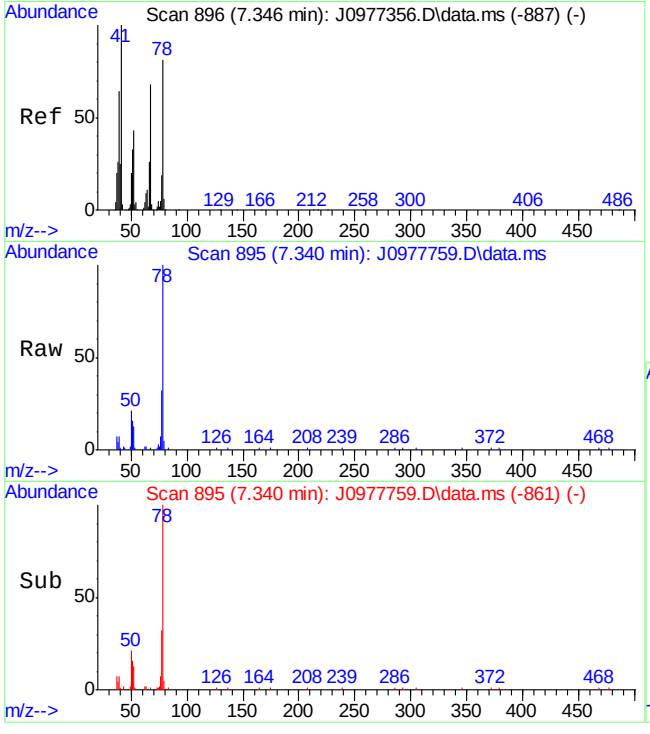


#21
Methyl Tert Butyl Ether
Concen: 6.11 ug/L
RT: 5.325 min Scan# 552
Delta R.T. -0.000 min
Lab File: J0977759.D
Acq: 1 Jul 2016 2:25 pm

Tgt Ion: 73 Resp: 44053

Ion	Ratio	Lower	Upper
73	100		
57	17.8	3.1	63.1
43	13.6	0.0	54.6
41	28.2	0.0	59.5

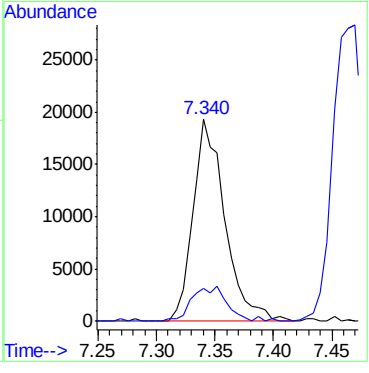


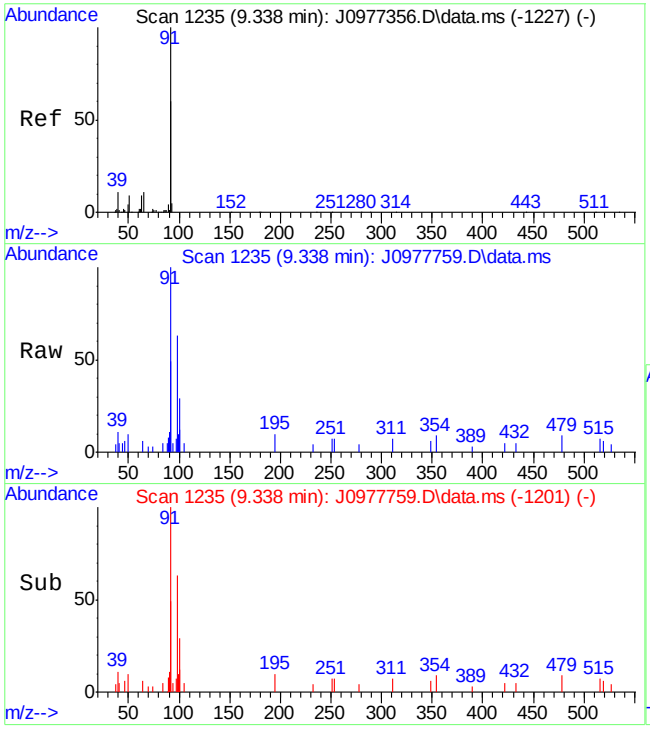


#44
Benzene
Concen: 3.27 ug/L
RT: 7.340 min Scan# 895
Delta R.T. 0.000 min
Lab File: J0977759.D
Acq: 1 Jul 2016 2:25 pm

Tgt Ion: 78 Resp: 36738

Ion	Ratio	Lower	Upper
78	100		
51	16.2	2.0	62.0

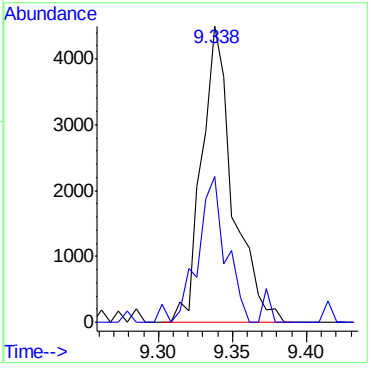


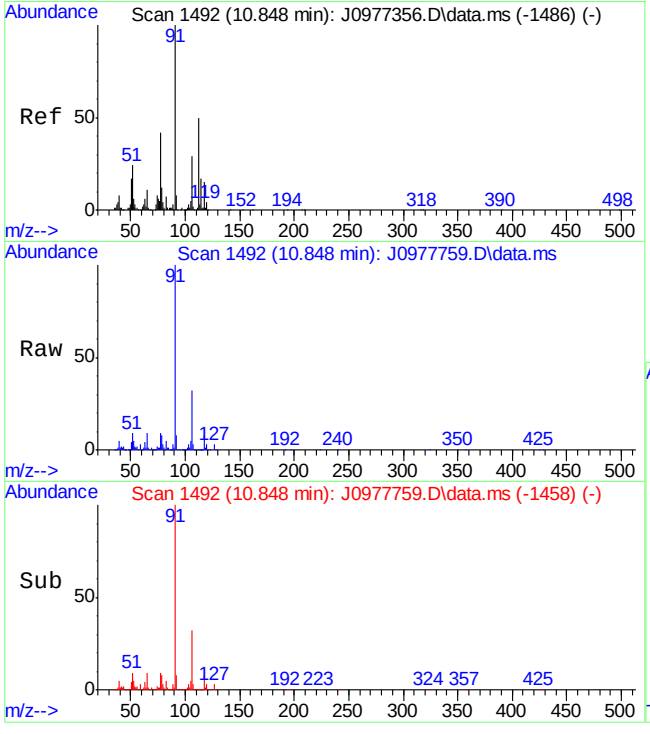


#58
Toluene
Concen: 0.46 ug/L
RT: 9.338 min Scan# 1235
Delta R.T. -0.000 min
Lab File: J0977759.D
Acq: 1 Jul 2016 2:25 pm

Tgt Ion: 91 Resp: 6537

Ion	Ratio	Lower	Upper
91	100		
92	49.2	28.7	88.7

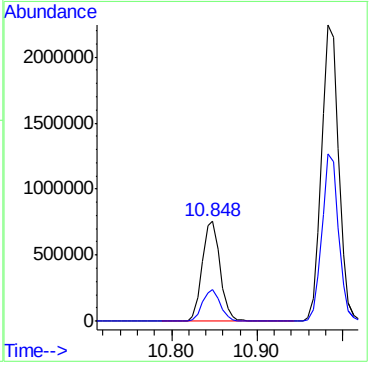


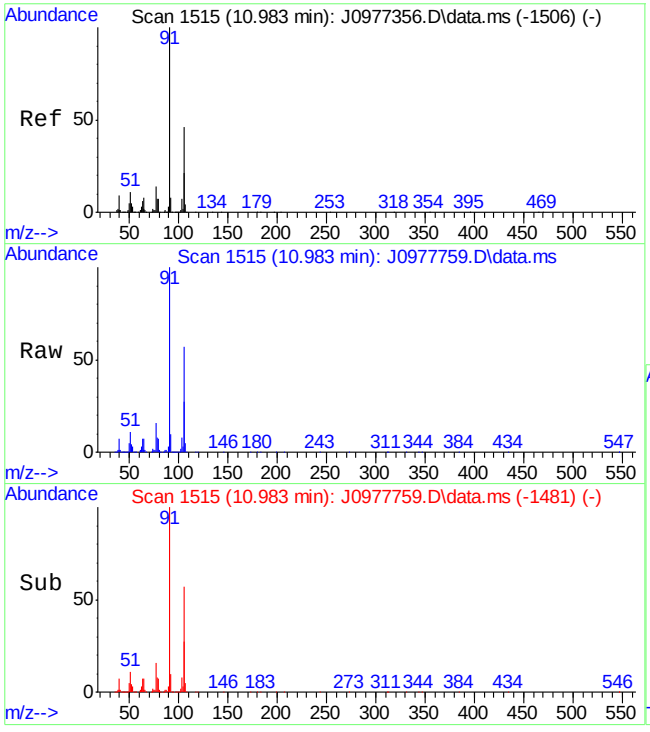


#70
Ethylbenzene
Concen: 76.66 ug/L
RT: 10.848 min Scan# 1492
Delta R.T. -0.000 min
Lab File: J0977759.D
Acq: 1 Jul 2016 2:25 pm

Tgt Ion: 91 Resp: 1094953

Ion	Ratio	Lower	Upper
91	100		
106	31.7	0.6	60.6

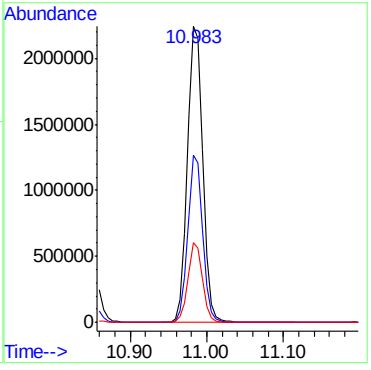


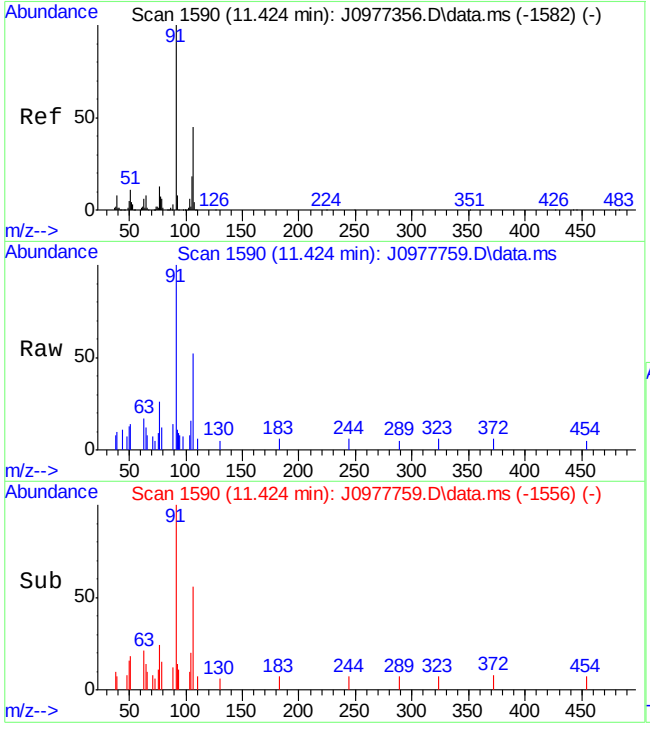


#73
m,p-Xylene
Concen: 264.82 ug/L
RT: 10.983 min Scan# 1515
Delta R.T. 0.000 min
Lab File: J0977759.D
Acq: 1 Jul 2016 2:25 pm

Tgt Ion: 91 Resp: 3132476

Ion	Ratio	Lower	Upper
91	100		
106	56.6	20.5	80.5
105	27.0	0.0	51.8

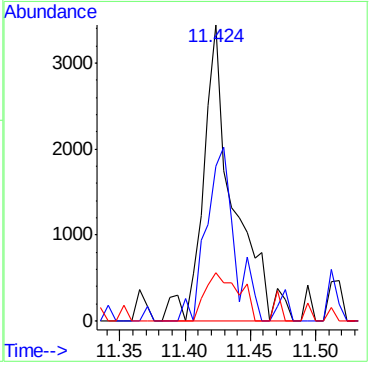


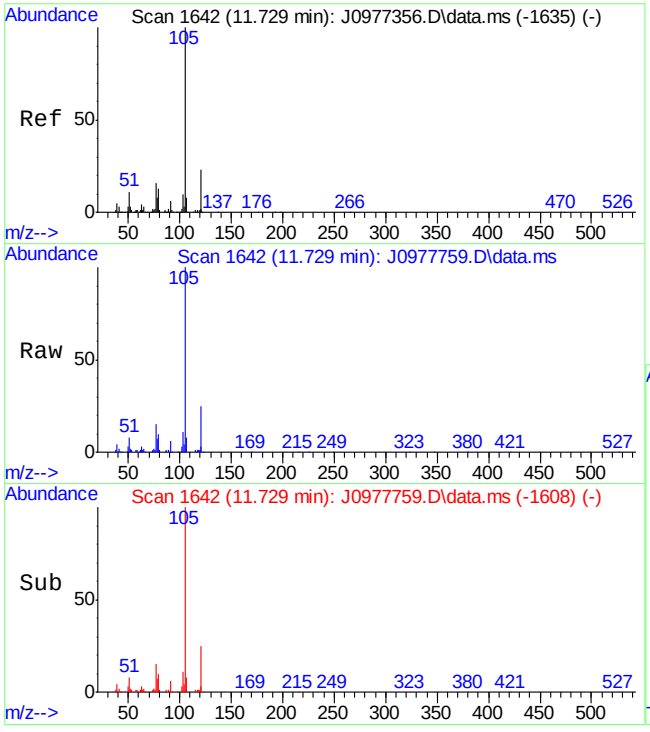


#74
o-Xylene
Concen: 0.56 ug/L
RT: 11.424 min Scan# 1590
Delta R.T. -0.000 min
Lab File: J0977759.D
Acq: 1 Jul 2016 2:25 pm

Tgt Ion: 91 Resp: 5551

Ion	Ratio	Lower	Upper
91	100		
106	52.4	16.3	76.3
105	16.4	0.0	47.3

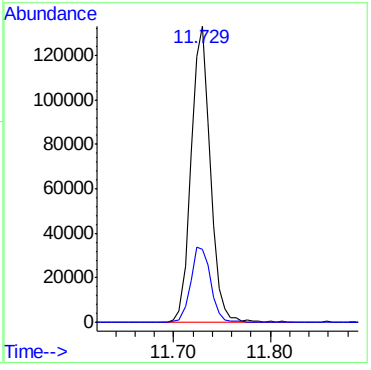


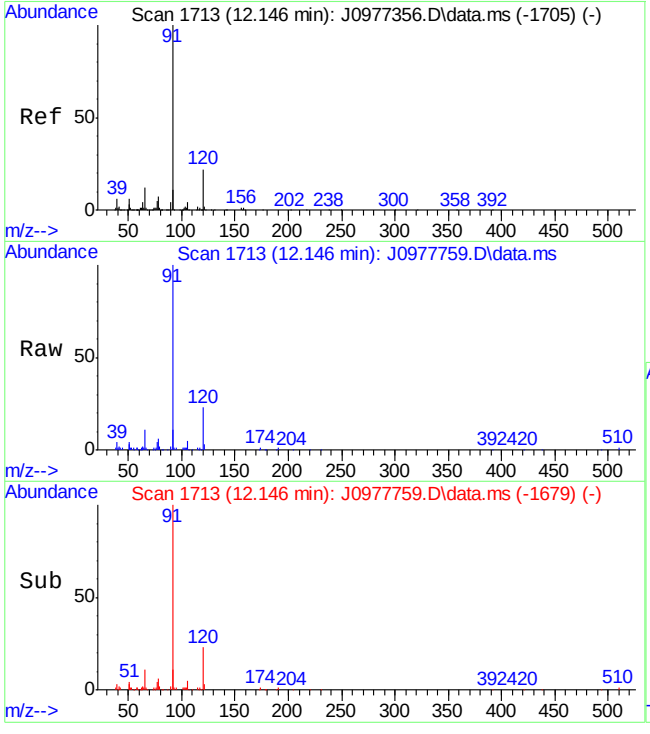


#77
Isopropylbenzene
Concen: 14.18 ug/L
RT: 11.729 min Scan# 1642
Delta R.T. 0.000 min
Lab File: J0977759.D
Acq: 1 Jul 2016 2:25 pm

Tgt Ion:105 Resp: 184005

Ion	Ratio	Lower	Upper
105	100		
120	24.6	0.0	55.1

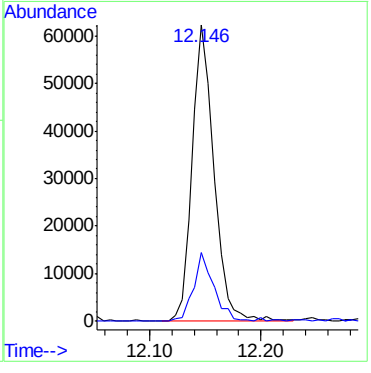


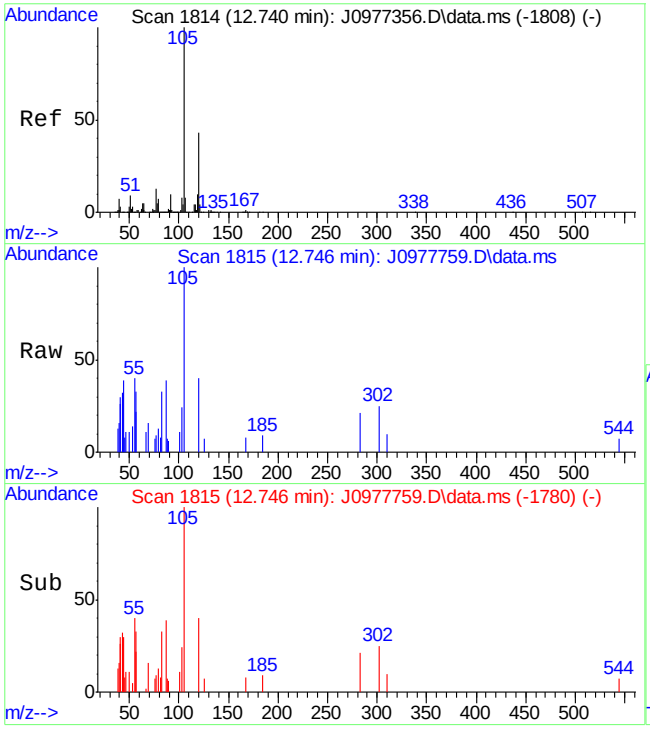


#81
n-Propylbenzene
Concen: 5.68 ug/L
RT: 12.146 min Scan# 1713
Delta R.T. 0.000 min
Lab File: J0977759.D
Acq: 1 Jul 2016 2:25 pm

Tgt Ion: 91 Resp: 84683

Ion	Ratio	Lower	Upper
91	100		
120	23.0	0.0	51.2

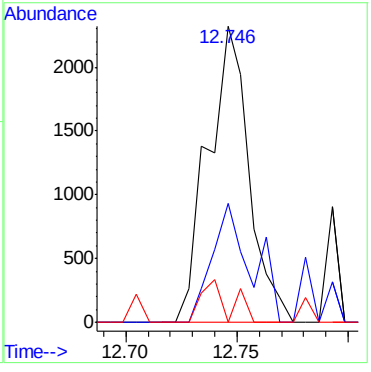


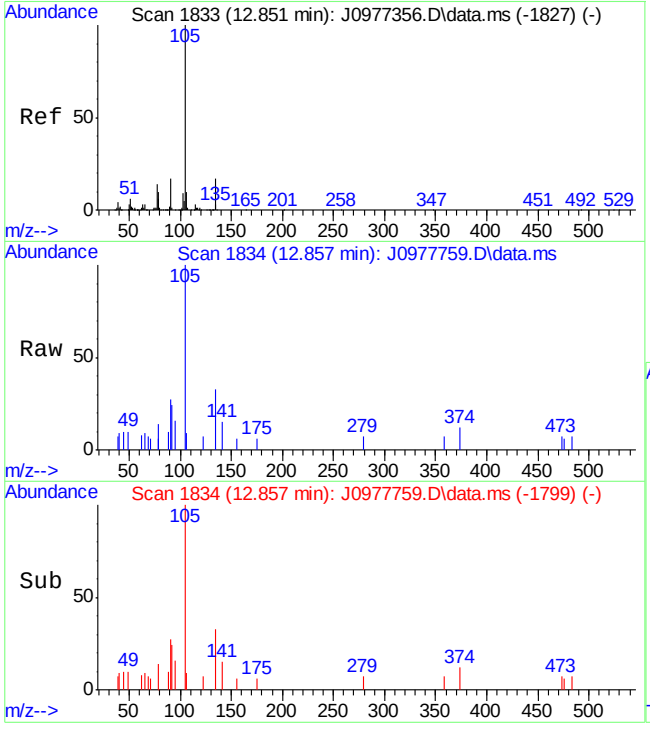


#92
1,2,4-Trimethylbenzene
Concen: 0.28 ug/L
RT: 12.746 min Scan# 1815
Delta R.T. 0.006 min
Lab File: J0977759.D
Acq: 1 Jul 2016 2:25 pm

Tgt Ion:105 Resp: 3008

Ion	Ratio	Lower	Upper
105	100		
120	40.2	12.9	72.9
119	0.0	0.0	43.5

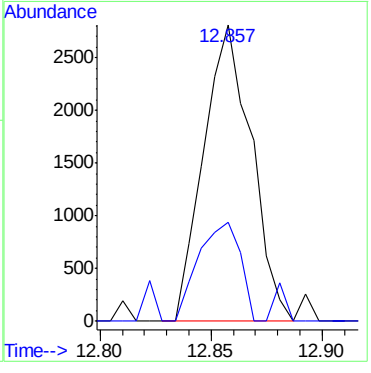




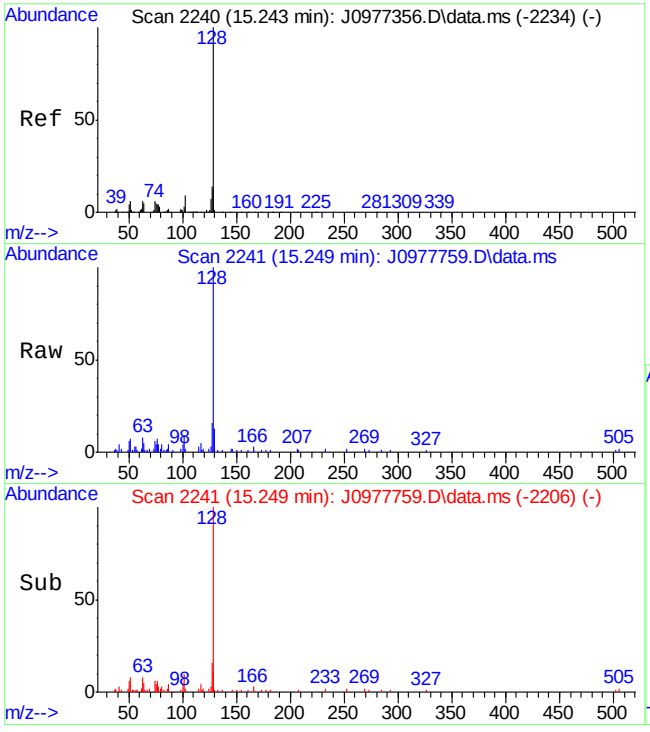
#94
sec-Butylbenzene
Concen: 0.32 ug/L
RT: 12.857 min Scan# 1834
Delta R.T. 0.006 min
Lab File: J0977759.D
Acq: 1 Jul 2016 2:25 pm

Tgt Ion:105 Resp: 4213

Ion	Ratio	Lower	Upper
105	100		
134	33.3	0.0	47.8



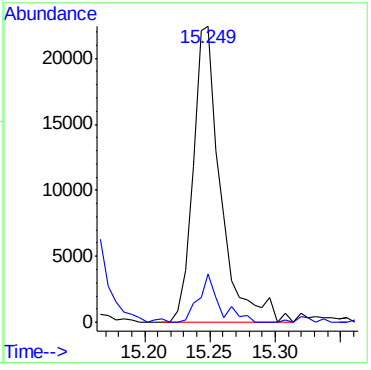
SGS ACCUTEST FA34891

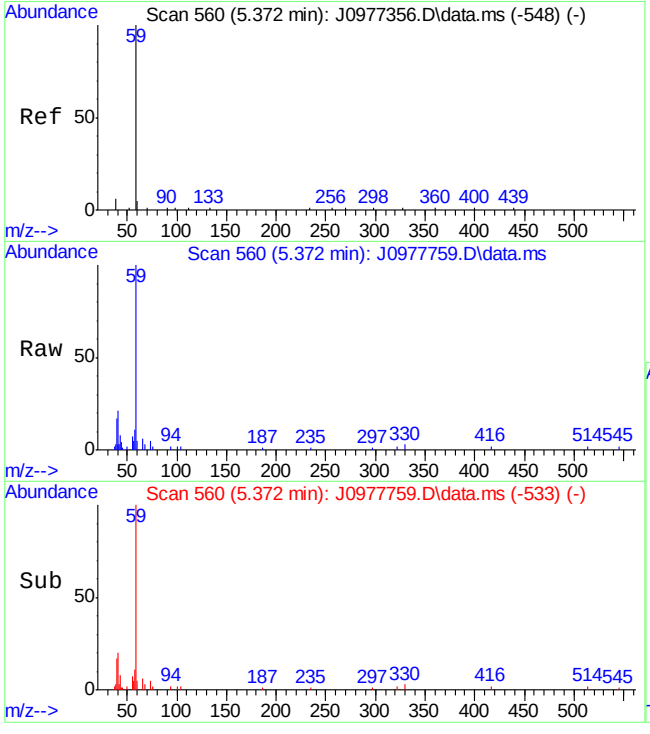


#104
Naphthalene
Concen: 5.68 ug/L
RT: 15.249 min Scan# 2241
Delta R.T. 0.006 min
Lab File: J0977759.D
Acq: 1 Jul 2016 2:25 pm

Tgt Ion:128 Resp: 33129

Ion	Ratio	Lower	Upper
128	100		
127	16.2	0.0	42.5

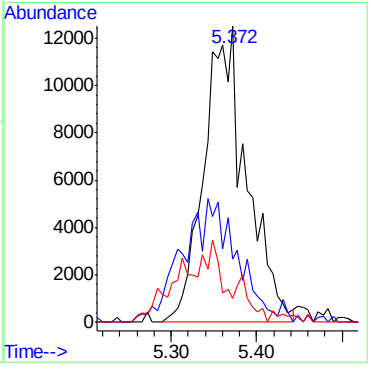




#109
Tert Butyl Alcohol
Concen: 290.35 ug/L
RT: 5.372 min Scan# 560
Delta R.T. 0.006 min
Lab File: J0977759.D
Acq: 1 Jul 2016 2:25 pm

Tgt Ion: 59 Resp: 43124

Ion	Ratio	Lower	Upper
59	100		
41	21.4	21.3	61.3
43	5.8	0.9	40.9



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\063016\
Data File : J0977731.D
Acq On : 30 Jun 2016 3:31 pm
Operator : darshnap
Sample : fa34891-3 ma Inst : MSVOA6
Misc : MS34294,vj5358,,,,,
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jul 01 12:23:12 2016
Quant Method : C:\msdchem\1\methods\MSJ062116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 21 11:35:53 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.746	96	370742	50.00	ug/L	0.00
56) Chlorobenzene-d5	10.830	117	289813	50.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	13.192	152	125898	50.00	ug/L	0.00
106) Tert Butyl Alcohol-d10	5.278	65	26979	250.00	ug/L	#-0.02
System Monitoring Compounds						
36) Dibromofluoromethane	6.917	113	99848	51.17	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 102.34%			
46) 1,2-Dichloroethane-d4	7.470	65	128206	45.02	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 90.04%			
57) Toluene-d8	9.285	98	375216	48.98	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 97.96%			
79) 4-Bromofluorobenzene	12.041	95	129089	53.37	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 106.74%			
Target Compounds						Qvalue
10) 1,2-Dichlorotrifluoroe...	4.344	67	85591	37.83	ug/L	93
12) Freon 113	4.467	101	21617	10.41	ug/L #	78
100) 1,2-Dichlorobenzene	13.633	146	3519	1.04	ug/L #	65

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

7.1.4

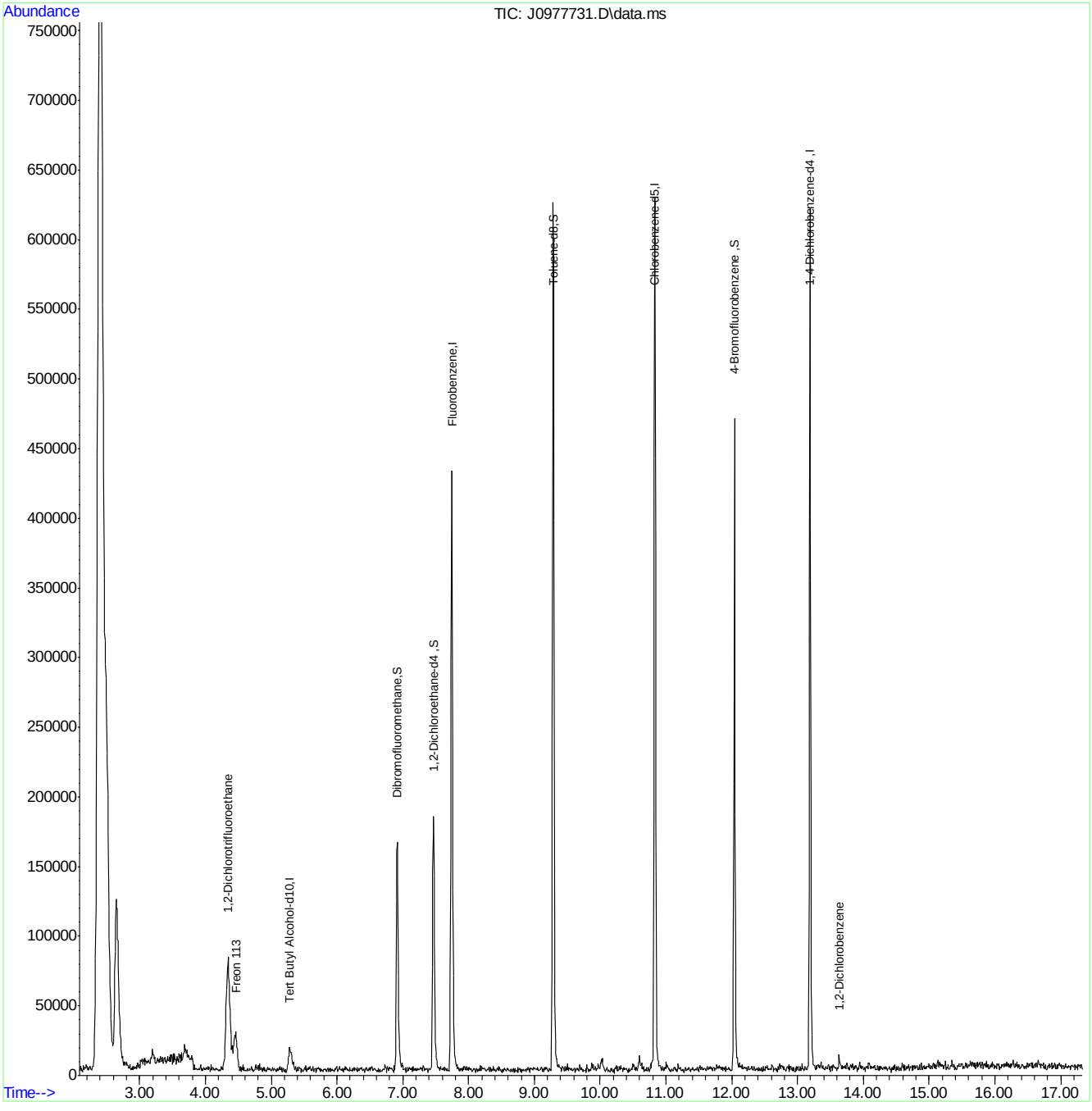
7

SGS ACCUTEST FA34891

Quantitation Report (QT Reviewed)

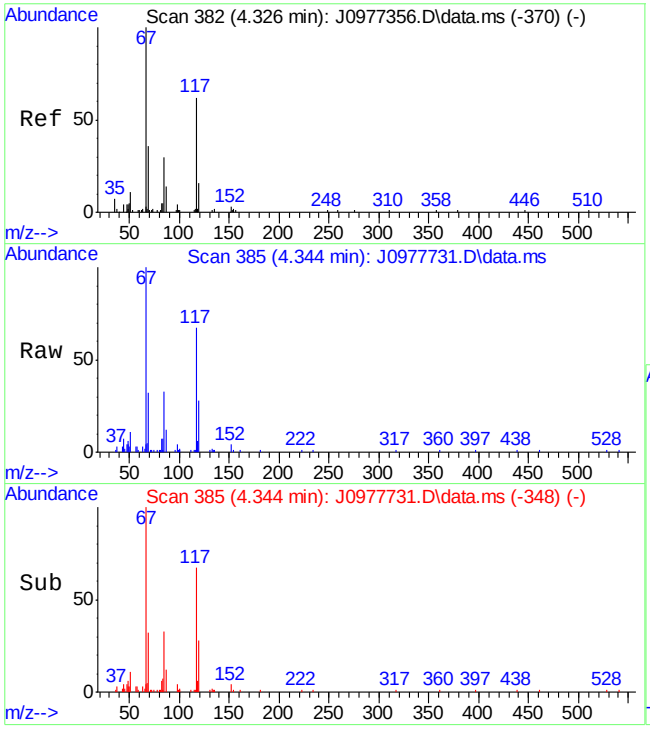
Data Path : C:\msdchem\1\data\063016\
Data File : J0977731.D
Acq On : 30 Jun 2016 3:31 pm
Operator : darshnap
Sample : fa34891-3 ma Inst : MSVOA6
Misc : MS34294,vj5358,,,,,
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jul 01 12:23:12 2016
Quant Method : C:\msdchem\1\methods\MSJ062116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 21 11:35:53 2016
Response via : Initial Calibration



MSJ070116a.M Fri Jul 01 12:24:08 2016 Page: 2

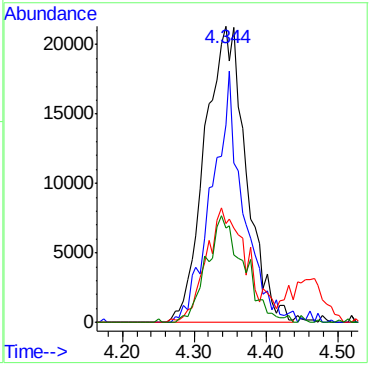
SGS ACCUTEST FA34891

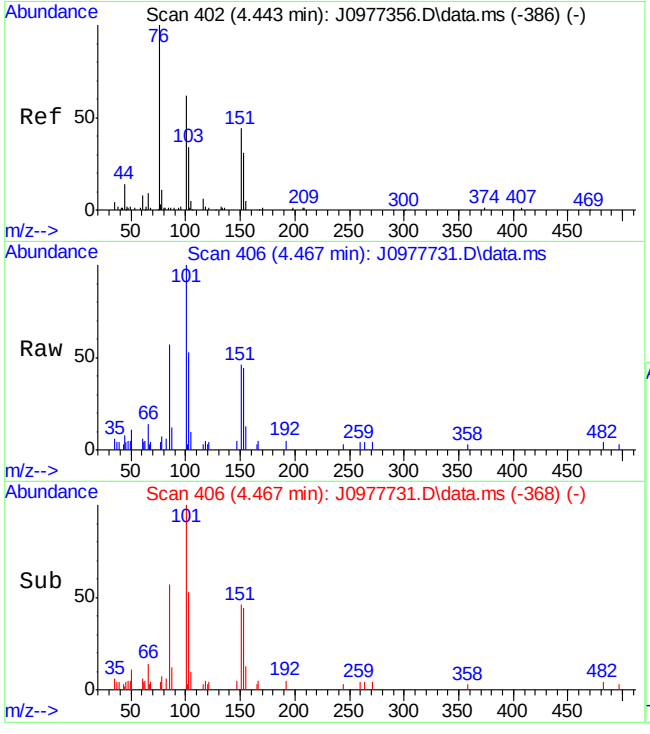


#10
1,2-Dichlorotrifluoroethane
Concen: 37.83 ug/L
RT: 4.344 min Scan# 385
Delta R.T. 0.018 min
Lab File: J0977731.D
Acq: 30 Jun 2016 3:31 pm

Tgt Ion: 67 Resp: 85591

Ion	Ratio	Lower	Upper
67	100		
117	66.6	41.5	81.5
85	33.3	9.6	49.6
69	31.9	16.2	56.2

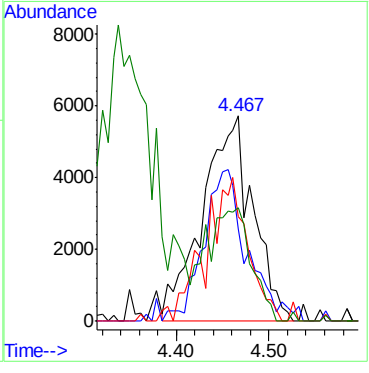


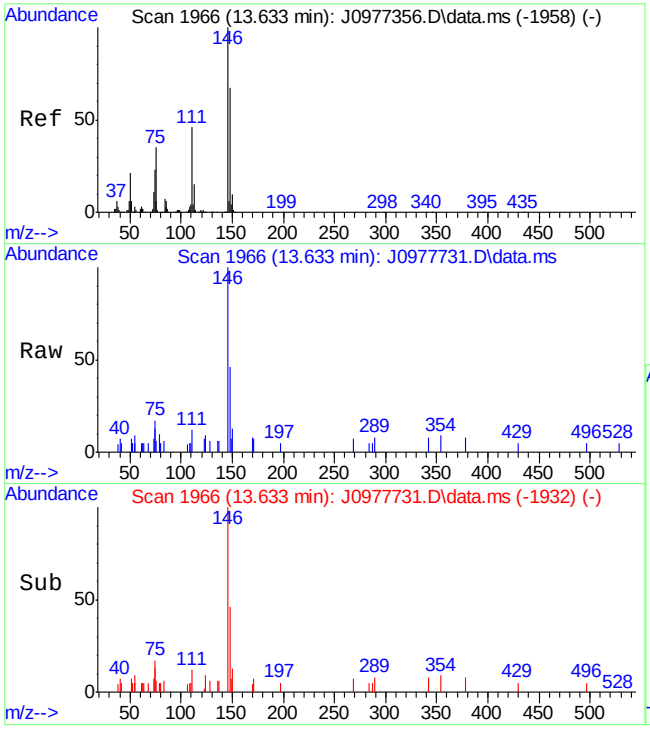


#12
Freon 113
Concen: 10.41 ug/L
RT: 4.467 min Scan# 406
Delta R.T. 0.024 min
Lab File: J0977731.D
Acq: 30 Jun 2016 3:31 pm

Tgt Ion:101 Resp: 21617

Ion	Ratio	Lower	Upper
101	100		
151	45.1	51.4	91.4#
103	46.3	35.2	75.2
85	50.9	19.3	59.3

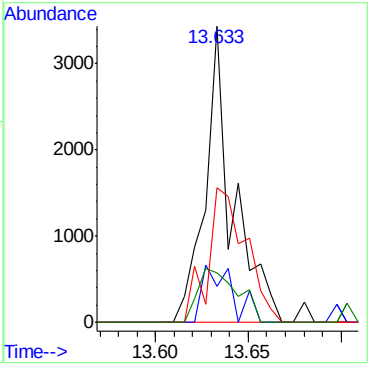




#100
1,2-Dichlorobenzene
Concen: 1.04 ug/L
RT: 13.633 min Scan# 1966
Delta R.T. 0.000 min
Lab File: J0977731.D
Acq: 30 Jun 2016 3:31 pm

Tgt Ion:146 Resp: 3519

Ion	Ratio	Lower	Upper
146	100		
111	12.1	16.0	76.0#
148	45.5	37.0	97.0
75	16.6	4.7	64.7



7.1.4

7

SGS ACCUTEST FA34891

Manual Integrations APPROVED (compounds with "m" flag)
Juan Garcia
07/01/16 12:07

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\063016\
Data File : J0977732.D
Acq On : 30 Jun 2016 3:54 pm
Operator : darshnap
Sample : fa34891-4 ma Inst : MSVOA6
Misc : MS34294,vj5358,,,,,
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Jul 01 07:57:29 2016
Quant Method : C:\msdchem\1\methods\MSJ062116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 21 11:35:53 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.740	96	409866	50.00	ug/L	0.00
56) Chlorobenzene-d5	10.830	117	295733	50.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	13.186	152	131822	50.00	ug/L	0.00
106) Tert Butyl Alcohol-d10	5.290	65	27929m	250.00	ug/L	0.00
System Monitoring Compounds						
36) Dibromofluoromethane	6.911	113	103014	47.75	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 95.50%			
46) 1,2-Dichloroethane-d4	7.464	65	140378	44.59	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 89.18%			
57) Toluene-d8	9.285	98	384217	49.15	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 98.30%			
79) 4-Bromofluorobenzene	12.041	95	136574	53.93	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 107.86%			
Target Compounds						Qvalue
92) 1,2,4-Trimethylbenzene	12.746	105	2340	0.30	ug/L	70

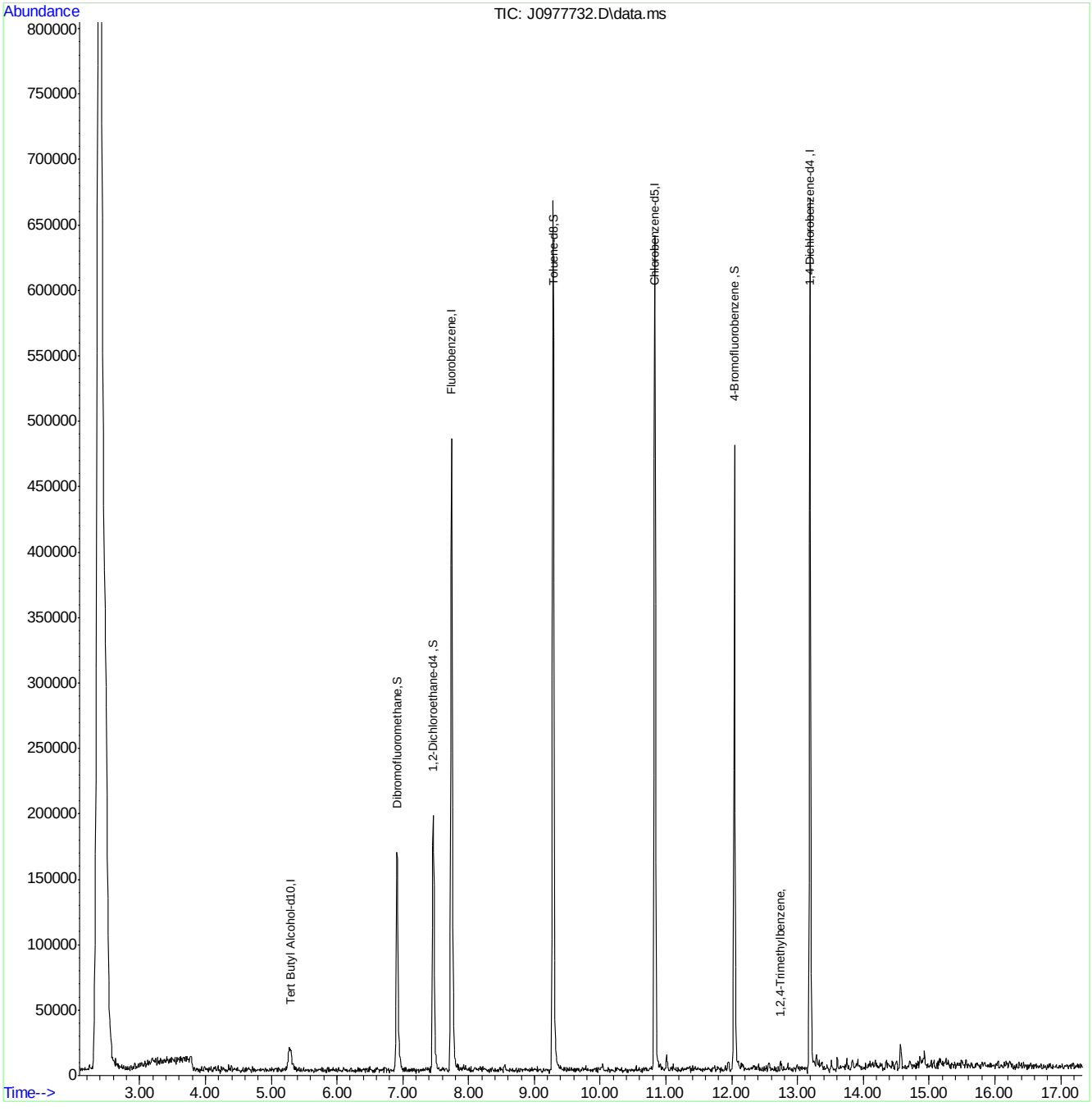
(#) = qualifier out of range (m) = manual integration (+) = signals summed

7.1.5
7

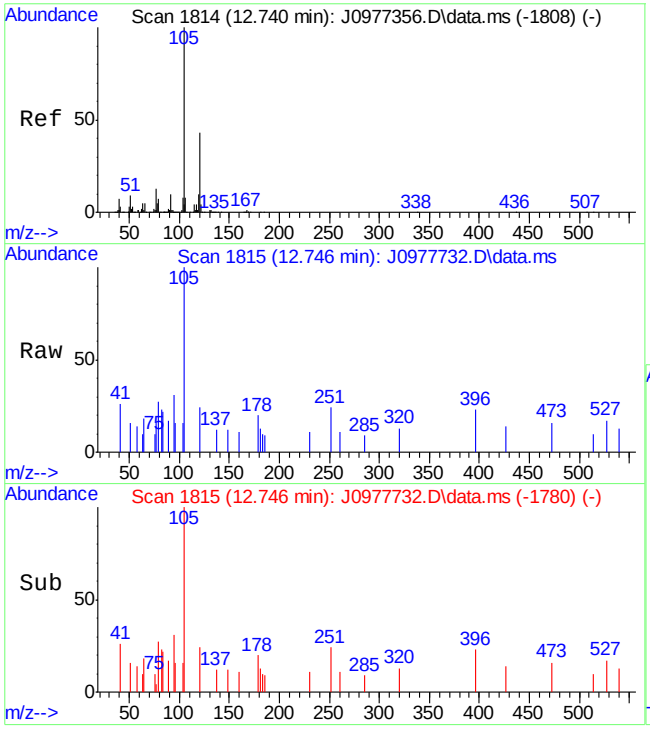
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\063016\
Data File : J0977732.D
Acq On : 30 Jun 2016 3:54 pm
Operator : darshnap
Sample : fa34891-4 ma Inst : MSVOA6
Misc : MS34294,vj5358,,,,,
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Jul 01 07:57:29 2016
Quant Method : C:\msdchem\1\methods\MSJ062116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 21 11:35:53 2016
Response via : Initial Calibration



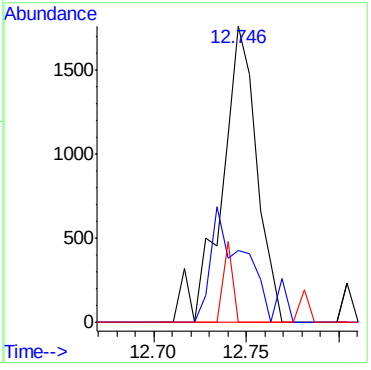
MSJ062116a.M Fri Jul 01 08:06:44 2016 Page: 2



#92
1,2,4-Trimethylbenzene
Concen: 0.30 ug/L
RT: 12.746 min Scan# 1815
Delta R.T. 0.006 min
Lab File: J0977732.D
Acq: 30 Jun 2016 3:54 pm

Tgt Ion:105 Resp: 2340

Ion	Ratio	Lower	Upper
105	100		
120	24.4	13.4	73.4
119	0.0	0.0	42.4



Manual Integration Approval Summary

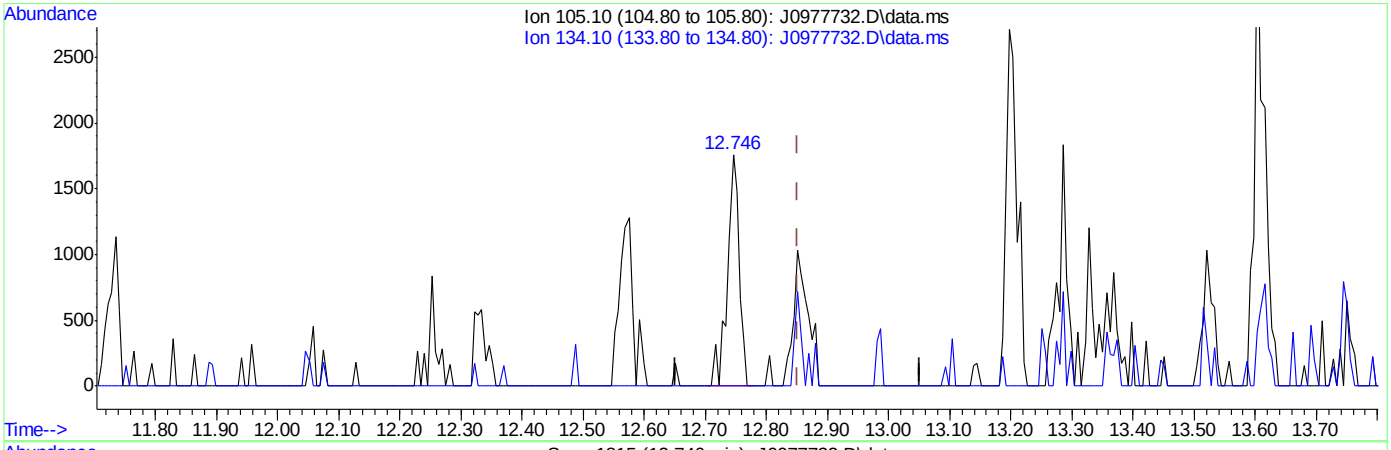
Sample Number:	FA34891-4	**Method:**	SW846 8260C
Lab FileID:	J0977732.D	**Analyst approved:**	07/01/16 10:25 Darshna Patel
Injection Time:	06/30/16 15:54	**Supervisor approved:**	07/01/16 12:07 Juan Garcia

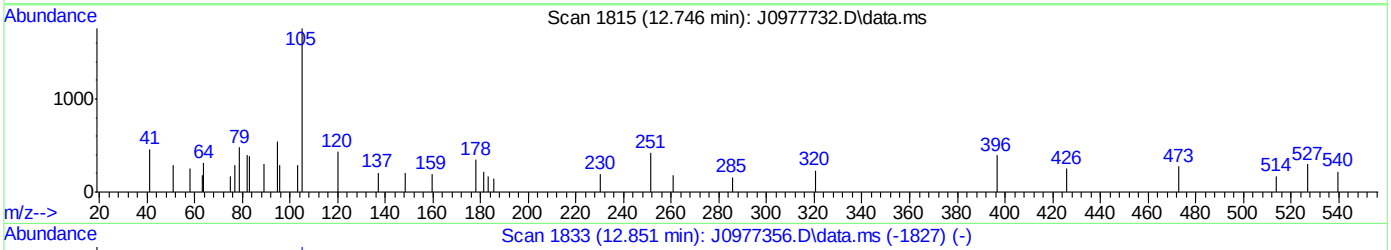
Parameter	CAS	Sig#	R.T. (min.)	Reason
Tert Butyl Alcohol-D10			5.29	Poor instrument integration

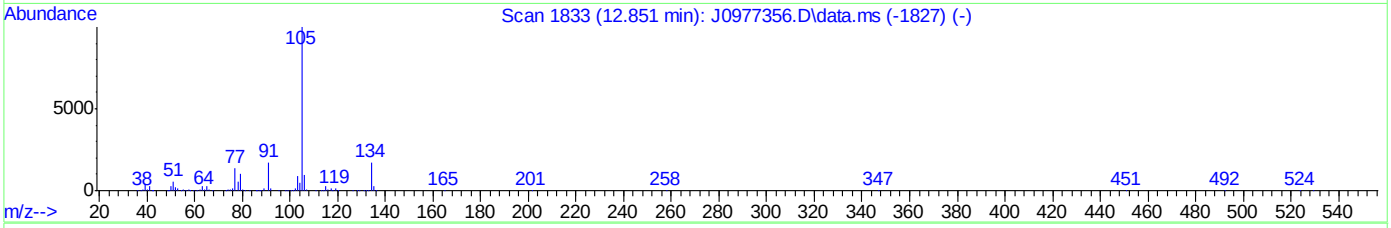
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\063016\
Data File : J0977732.D
Acq On : 30 Jun 2016 3:54 pm
Operator : darshnap
Sample : fa34891-4 ma Inst : MSVOA6
Misc : MS34294,vj5358,,,,,
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Jul 01 07:53:03 2016
Quant Method : C:\msdchem\1\methods\MSJ062116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 21 11:35:53 2016
Response via : Initial Calibration







TIC: J0977732.D\data.ms

(94) sec-Butylbenzene

12.746min (-0.106) 0.25ug/L

response 2340

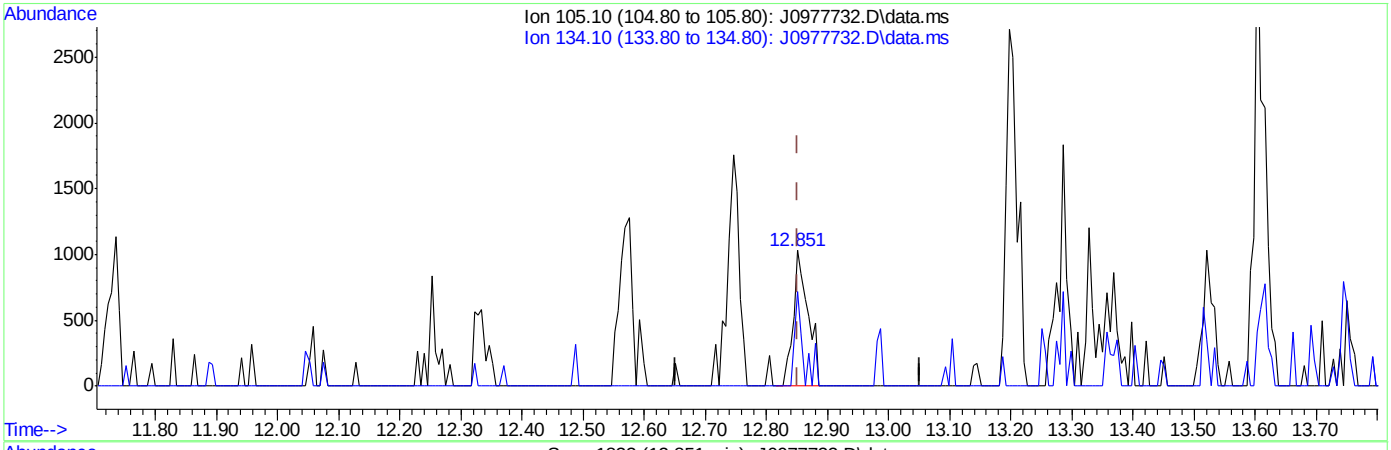
Ion	Exp%	Act%
105.10	100	100
134.10	17.40	0.00
0.00	0.00	0.00
0.00	0.00	0.00

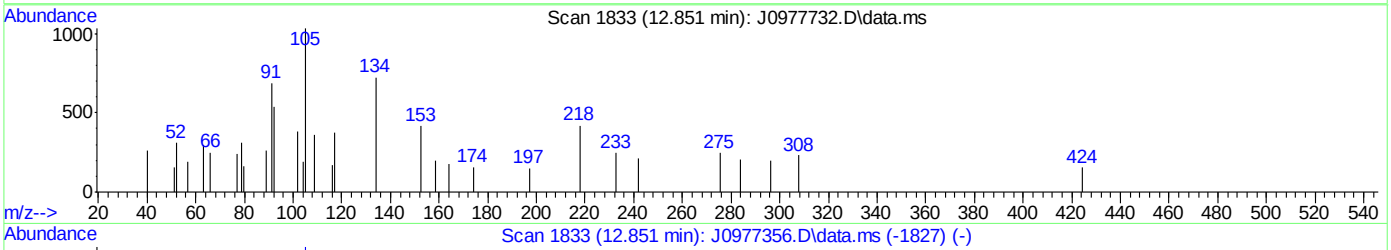
SGS ACCUTEST FA34891

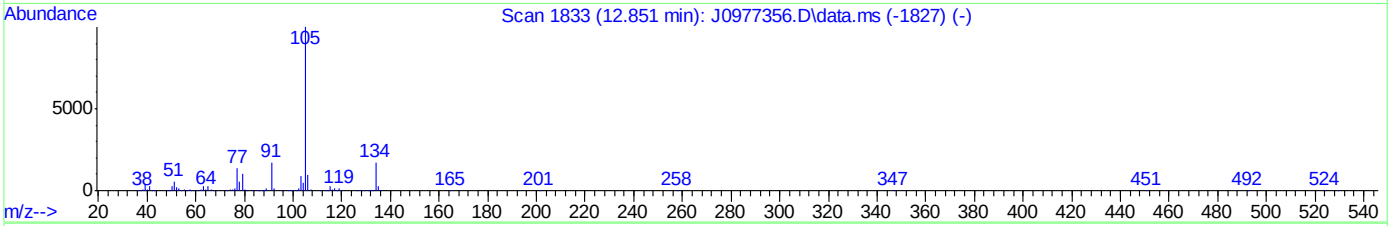
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\063016\
Data File : J0977732.D
Acq On : 30 Jun 2016 3:54 pm
Operator : darshnap
Sample : fa34891-4 ma Inst : MSVOA6
Misc : MS34294,vj5358,,,,,
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Jul 01 07:53:03 2016
Quant Method : C:\msdchem\1\methods\MSJ062116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 21 11:35:53 2016
Response via : Initial Calibration







TIC: J0977732.D\data.ms

(94) sec-Butylbenzene

12.851min (+0.000) 0.19ug/L m

response 1749

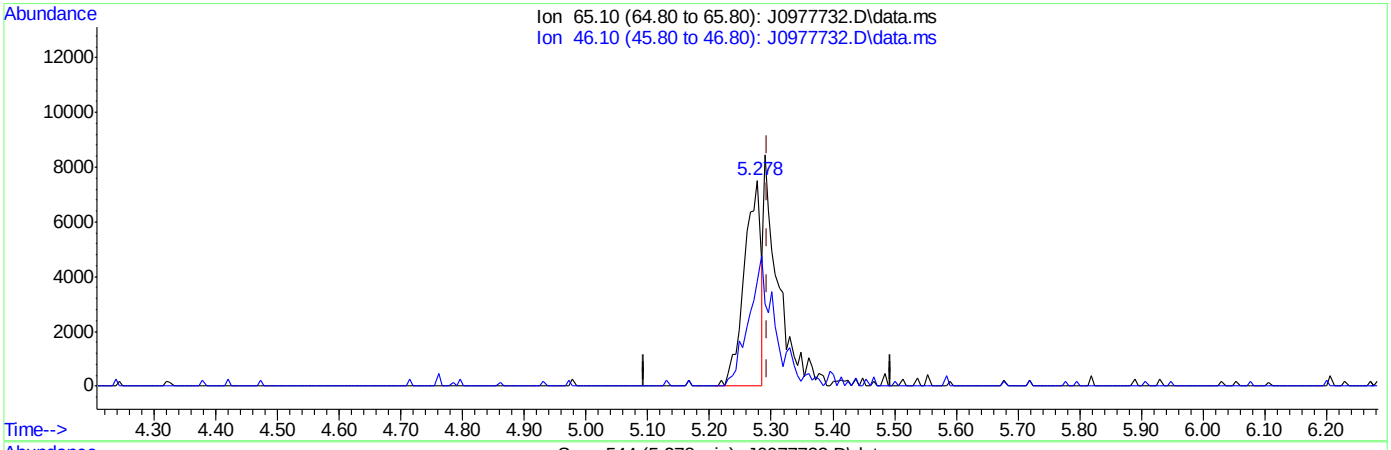
Ion	Exp%	Act%
105.10	100	100
134.10	17.40	69.96#
0.00	0.00	0.00
0.00	0.00	0.00

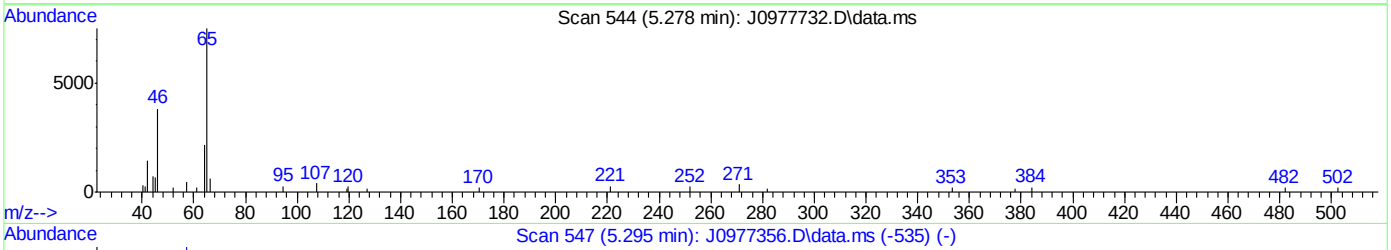
SGS ACCUTEST FA34891

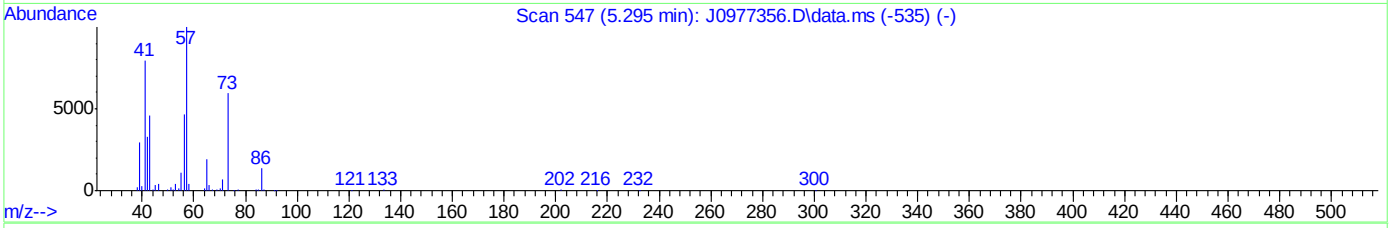
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\063016\
Data File : J0977732.D
Acq On : 30 Jun 2016 3:54 pm
Operator : darshnap
Sample : fa34891-4 ma Inst : MSVOA6
Misc : MS34294,vj5358,,,,,
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Jul 01 07:53:03 2016
Quant Method : C:\msdchem\1\methods\MSJ062116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 21 11:35:53 2016
Response via : Initial Calibration







TIC: J0977732.D\data.ms

(106) Tert Butyl Alcohol-d10 (I)

5.278min (-0.017) 250.00ug/L

response 13825

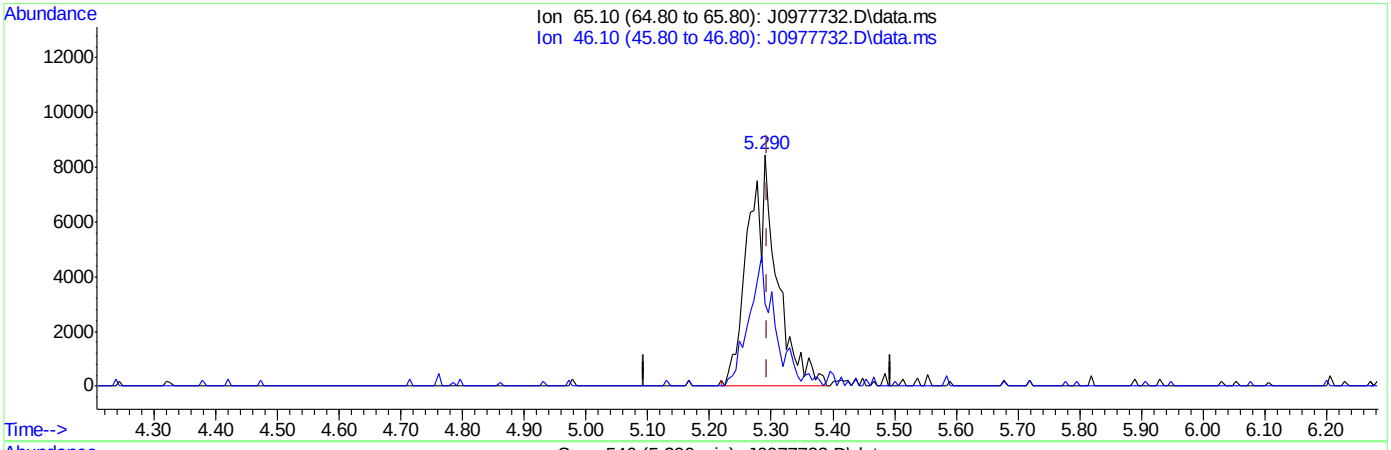
Ion	Exp%	Act%
65.10	100	100
46.10	20.40	50.79#
0.00	0.00	0.00
0.00	0.00	0.00

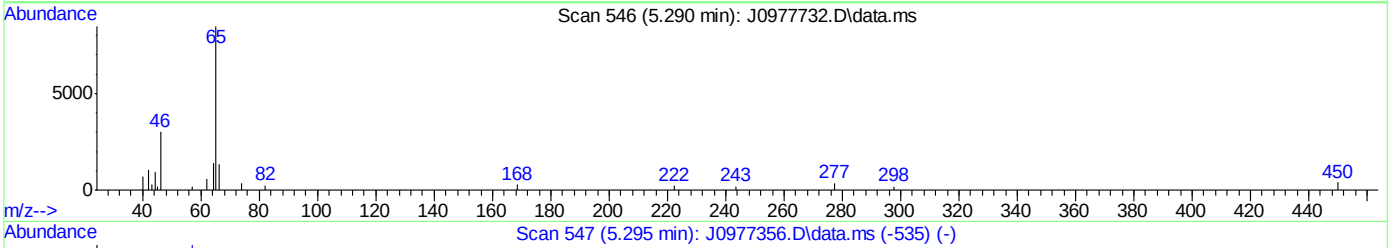
SGS ACCUTEST FA34891

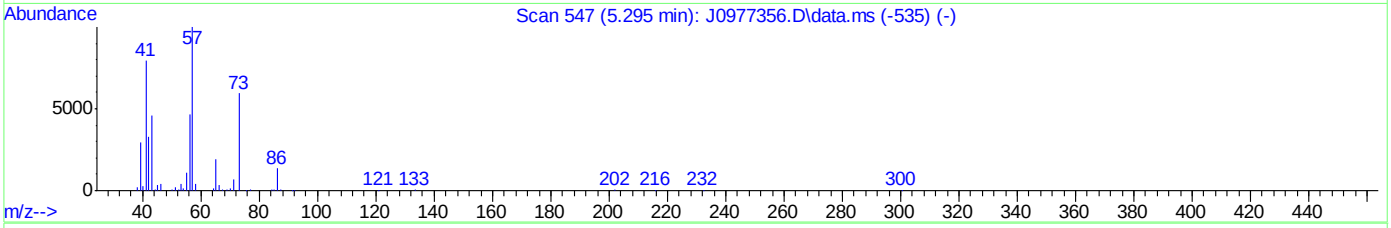
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\063016\
Data File : J0977732.D
Acq On : 30 Jun 2016 3:54 pm
Operator : darshnap
Sample : fa34891-4 ma Inst : MSVOA6
Misc : MS34294,vj5358,,,,,
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Jul 01 07:53:03 2016
Quant Method : C:\msdchem\1\methods\MSJ062116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 21 11:35:53 2016
Response via : Initial Calibration







TIC: J0977732.D\data.ms

(106) Tert Butyl Alcohol-d10 (I)

5.290min (-0.005) 250.00ug/L m

response 27929

Ion	Exp%	Act%
65.10	100	100
46.10	20.40	35.59
0.00	0.00	0.00
0.00	0.00	0.00

SGS ACCUTEST FA34891

Manual Integrations APPROVED (compounds with "m" flag)
Juan Garcia
07/05/16 14:12

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\063016\
Data File : J0977733.D
Acq On : 30 Jun 2016 4:17 pm
Operator : darshnap
Sample : fa34891-5 ma Inst : MSVOA6
Misc : MS34294,vj5358,,,,,
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Jul 01 12:23:46 2016
Quant Method : C:\msdchem\1\methods\MSJ062116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 21 11:35:53 2016
Response via : Initial Calibration

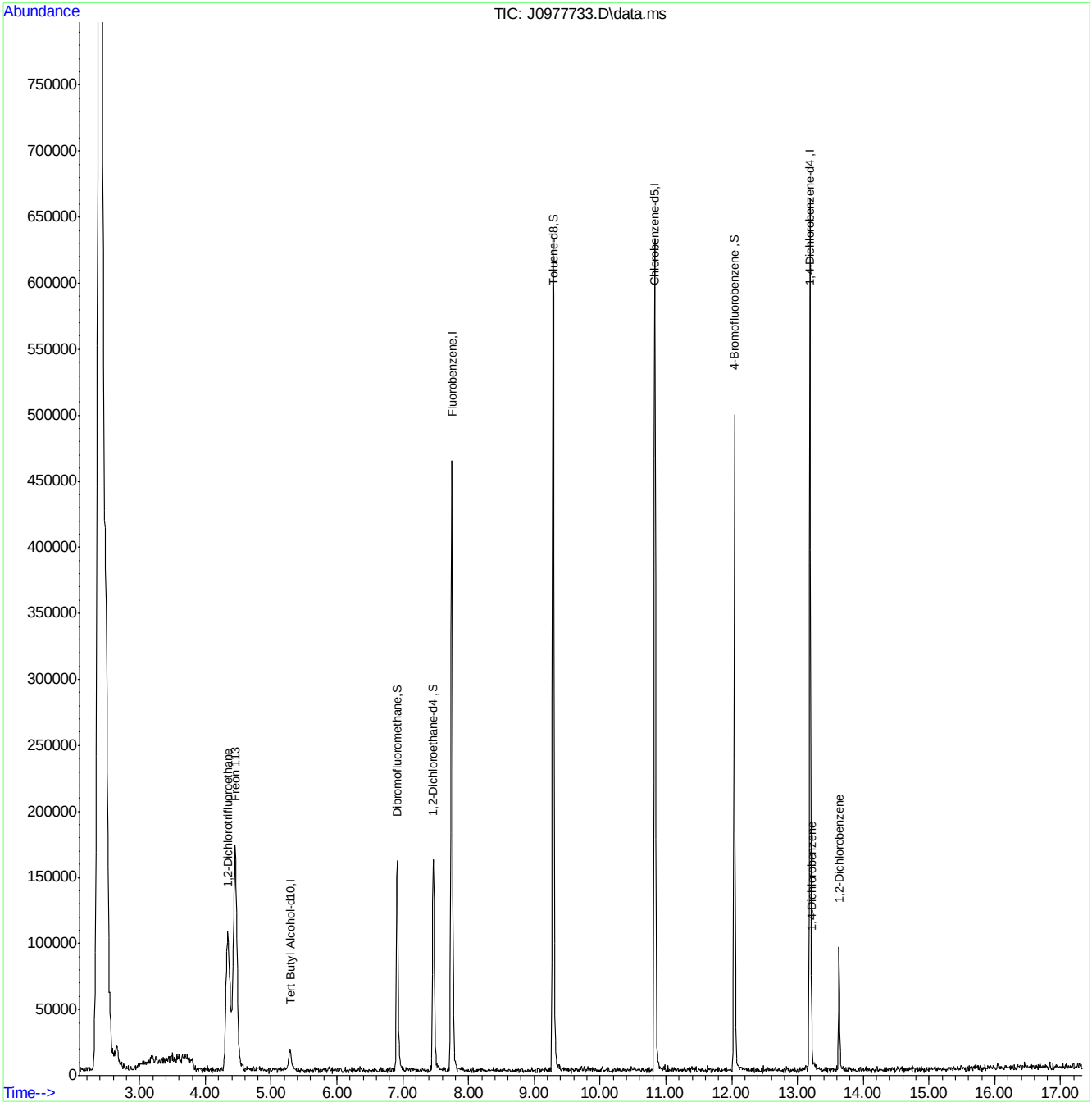
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.746	96	392841	50.00	ug/L	0.00
56) Chlorobenzene-d5	10.830	117	295485	50.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	13.192	152	128172	50.00	ug/L	0.00
106) Tert Butyl Alcohol-d10	5.290	65	21616	250.00	ug/L	# 0.00
System Monitoring Compounds						
36) Dibromofluoromethane	6.917	113	99121	47.94	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 95.88%			
46) 1,2-Dichloroethane-d4	7.464	65	121677	40.33	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 80.66%			
57) Toluene-d8	9.285	98	383033	49.04	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 98.08%			
79) 4-Bromofluorobenzene	12.041	95	133645	54.27	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 108.54%			
Target Compounds						Qvalue
10) 1,2-Dichlorotrifluoroe...	4.338	67	121021	50.48	ug/L	92
12) Freon 113	4.449	101	142777	70.22	ug/L	97
97) 1,4-Dichlorobenzene	13.210	146	6120	1.58	ug/L	77
100) 1,2-Dichlorobenzene	13.633	146	27493	7.99	ug/L	91

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

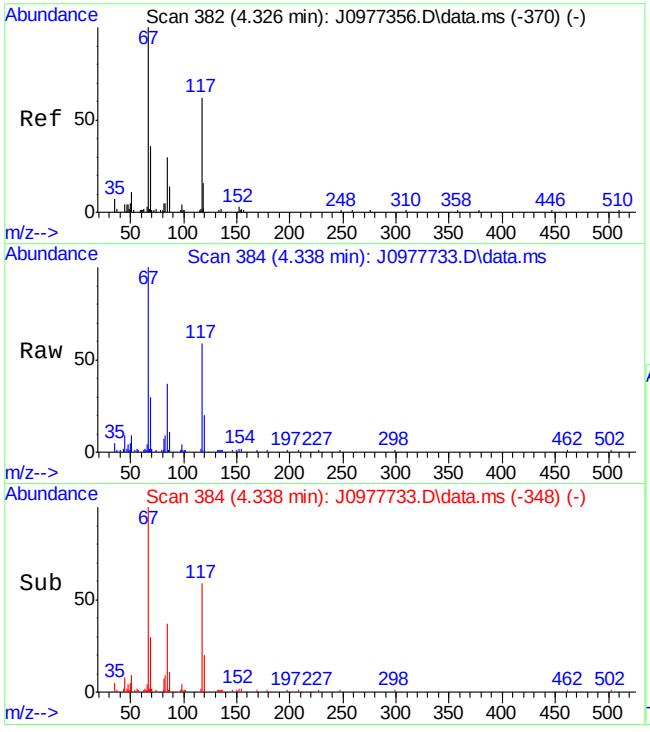
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\063016\
Data File : J0977733.D
Acq On : 30 Jun 2016 4:17 pm
Operator : darshnap
Sample : fa34891-5 ma Inst : MSVOA6
Misc : MS34294,vj5358,,,,,
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Jul 01 12:23:46 2016
Quant Method : C:\msdchem\1\methods\MSJ062116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 21 11:35:53 2016
Response via : Initial Calibration



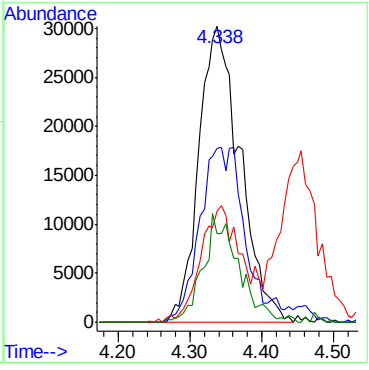
MSJ070116a.M Fri Jul 01 12:24:11 2016 Page: 2

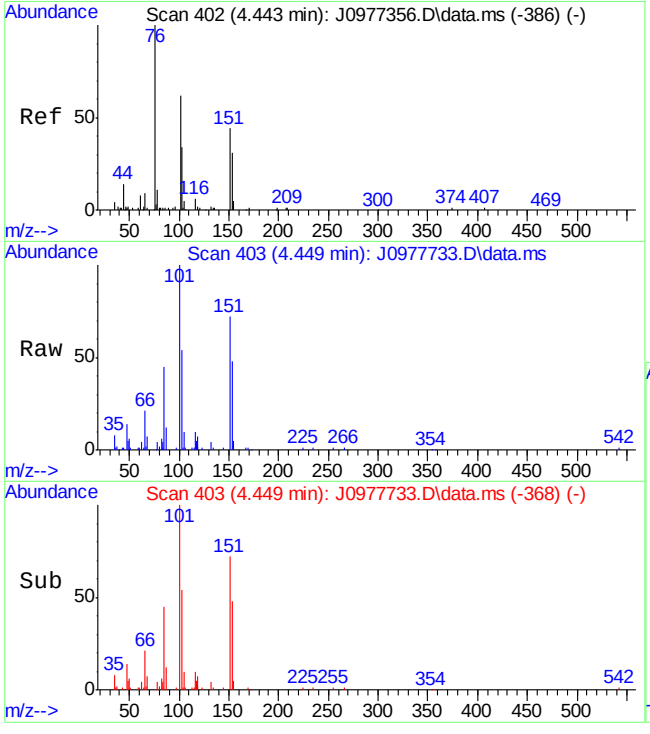


#10
1,2-Dichlorotrifluoroethane
Concen: 50.48 ug/L
RT: 4.338 min Scan# 384
Delta R.T. 0.012 min
Lab File: J0977733.D
Acq: 30 Jun 2016 4:17 pm

Tgt Ion: 67 Resp: 121021

Ion	Ratio	Lower	Upper
67	100		
117	58.9	41.5	81.5
85	37.4	9.6	49.6
69	30.1	16.2	56.2

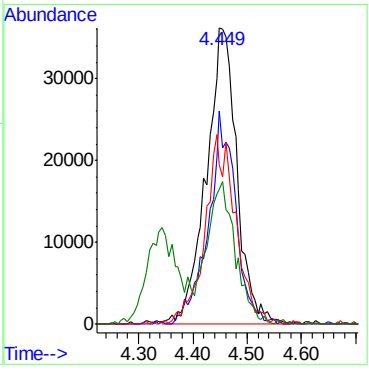


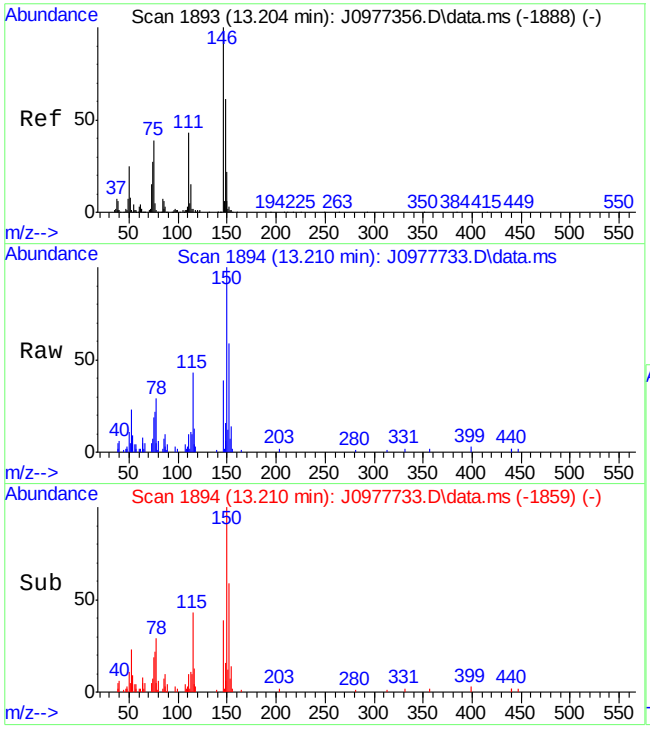


#12
Freon 113
Concen: 70.22 ug/L
RT: 4.449 min Scan# 403
Delta R.T. 0.006 min
Lab File: J0977733.D
Acq: 30 Jun 2016 4:17 pm

Tgt Ion:101 Resp: 142777

Ion	Ratio	Lower	Upper
101	100		
151	71.3	51.4	91.4
103	52.7	35.2	75.2
85	45.4	19.3	59.3

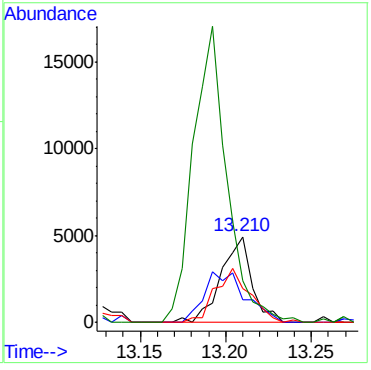


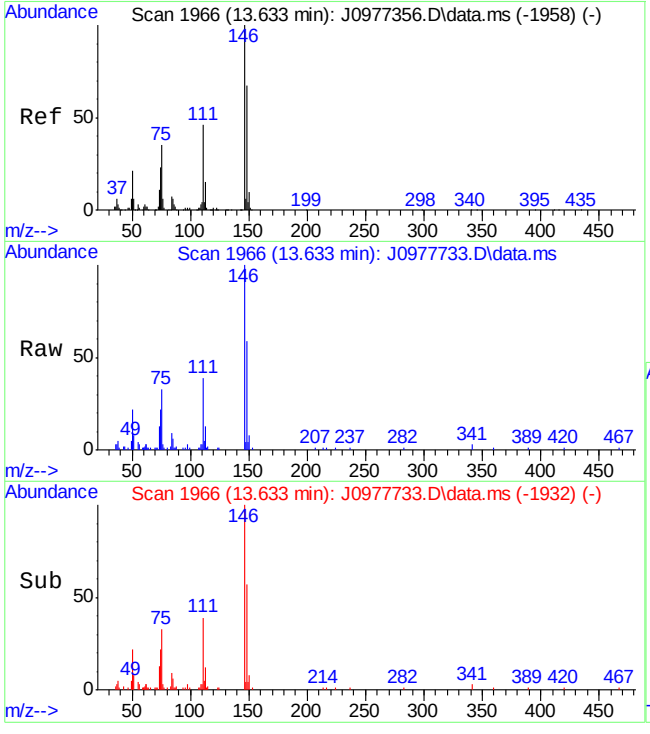


#97
1,4-Dichlorobenzene
Concen: 1.58 ug/L
RT: 13.210 min Scan# 1894
Delta R.T. 0.006 min
Lab File: J0977733.D
Acq: 30 Jun 2016 4:17 pm

Tgt Ion:146 Resp: 6120

Ion	Ratio	Lower	Upper
146	100		
111	26.2	13.1	73.1
148	39.9	30.6	90.6
75	49.1	10.8	70.8

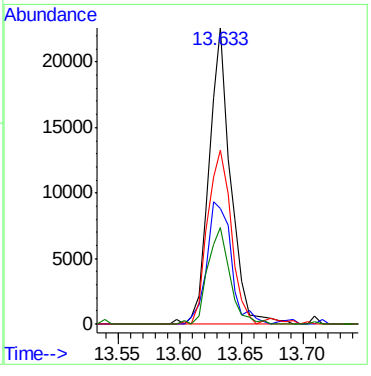




#100
1,2-Dichlorobenzene
Concen: 7.99 ug/L
RT: 13.633 min Scan# 1966
Delta R.T. 0.000 min
Lab File: J0977733.D
Acq: 30 Jun 2016 4:17 pm

Tgt Ion:146 Resp: 27493

Ion	Ratio	Lower	Upper
146	100		
111	38.9	16.0	76.0
148	58.7	37.0	97.0
75	32.6	4.7	64.7



Manual Integration Approval Summary

Sample Number:	FA34891-5	**Method:**	SW846 8260C
Lab FileID:	J0977733.D	**Analyst approved:**	07/01/16 10:25 Darshna Patel
Injection Time:	06/30/16 16:17	**Supervisor approved:**	07/05/16 14:12 Juan Garcia

Parameter	CAS	Sig#	R.T. (min.)	Reason
Dichlorodifluoromethane	75-71-8		2.66	Poor instrument integration

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\063016\
Data File : J0977734.D
Acq On : 30 Jun 2016 4:40 pm
Operator : darshnap
Sample : fa34891-6 ma Inst : MSVOA6
Misc : MS34294,vj5358,,,,,
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Jul 01 07:58:22 2016
Quant Method : C:\msdchem\1\methods\MSJ062116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 21 11:35:53 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.740	96	326754	50.00	ug/L	0.00
56) Chlorobenzene-d5	10.830	117	251255	50.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	13.192	152	118468	50.00	ug/L	0.00
106) Tert Butyl Alcohol-d10	5.284	65	22409	250.00	ug/L	-0.01
System Monitoring Compounds						
36) Dibromofluoromethane	6.917	113	96990	56.40	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 112.80%			
46) 1,2-Dichloroethane-d4	7.463	65	114928	45.79	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 91.58%			
57) Toluene-d8	9.285	98	399246	60.12	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 120.24%#			
79) 4-Bromofluorobenzene	12.041	95	125440	55.12	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 110.24%			

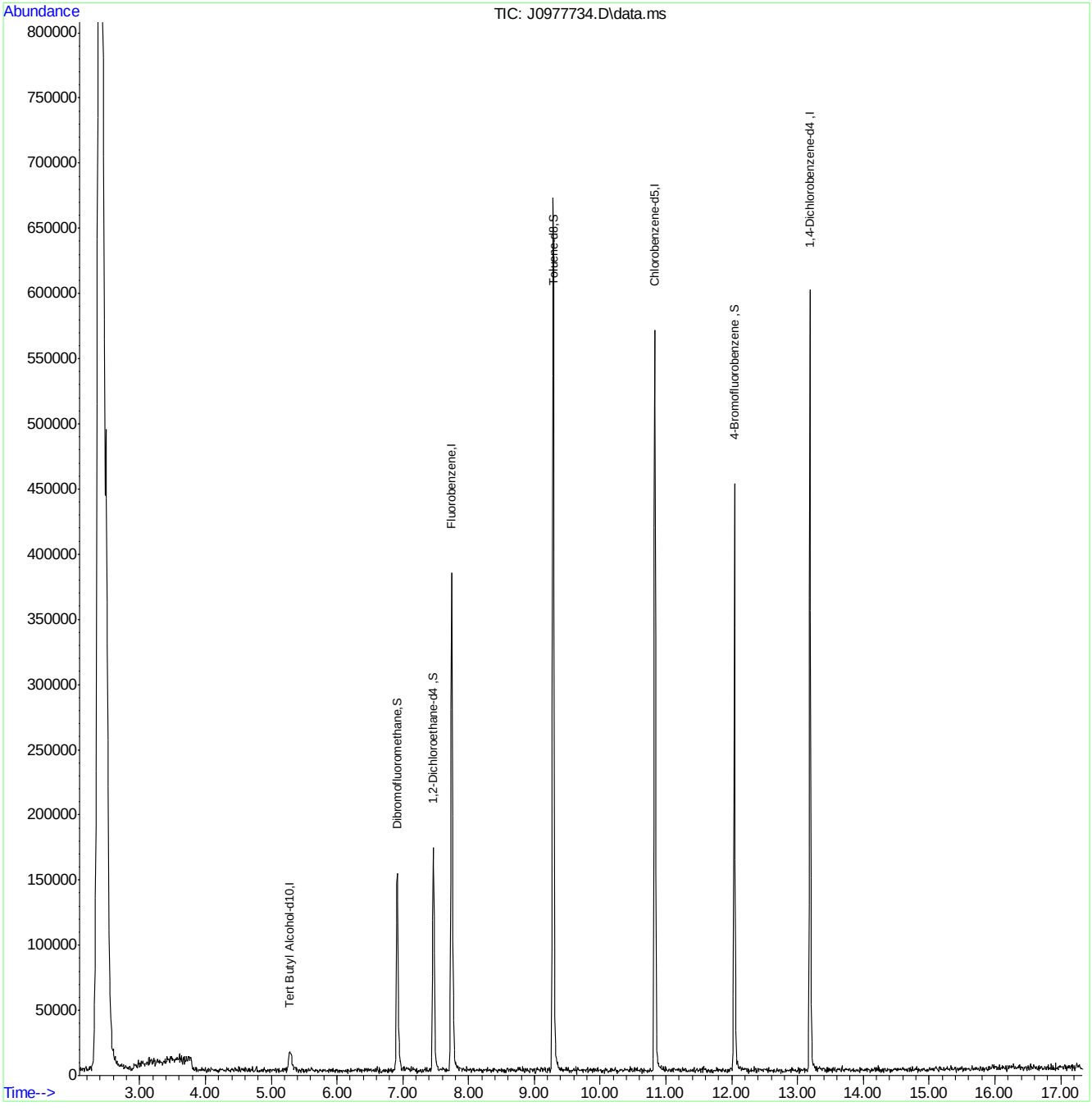
Target Compounds Qvalue

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\063016\
Data File : J0977734.D
Acq On : 30 Jun 2016 4:40 pm
Operator : darshnap
Sample : fa34891-6 ma Inst : MSVOA6
Misc : MS34294,vj5358,,,,,
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Jul 01 07:58:22 2016
Quant Method : C:\msdchem\1\methods\MSJ062116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 21 11:35:53 2016
Response via : Initial Calibration



MSJ062116a.M Fri Jul 01 08:06:48 2016 Page: 2

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\063016\
Data File : J0977735.D
Acq On : 30 Jun 2016 5:03 pm
Operator : darshnap
Sample : fa34891-7 ma Inst : MSVOA6
Misc : MS34294,vj5358,,,,,
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Jul 01 07:58:54 2016
Quant Method : C:\msdchem\1\methods\MSJ062116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 21 11:35:53 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.740	96	400194	50.00	ug/L	0.00
56) Chlorobenzene-d5	10.830	117	253275	50.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	13.192	152	121014	50.00	ug/L	0.00
106) Tert Butyl Alcohol-d10	5.284	65	26350	250.00	ug/L	-0.01
System Monitoring Compounds						
36) Dibromofluoromethane	6.911	113	95152	45.18	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 90.36%			
46) 1,2-Dichloroethane-d4	7.463	65	136886	44.53	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 89.06%			
57) Toluene-d8	9.285	98	386977	57.80	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 115.60%#			
79) 4-Bromofluorobenzene	12.041	95	120924	52.01	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 104.02%			

Target Compounds Qvalue

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

7.1.8

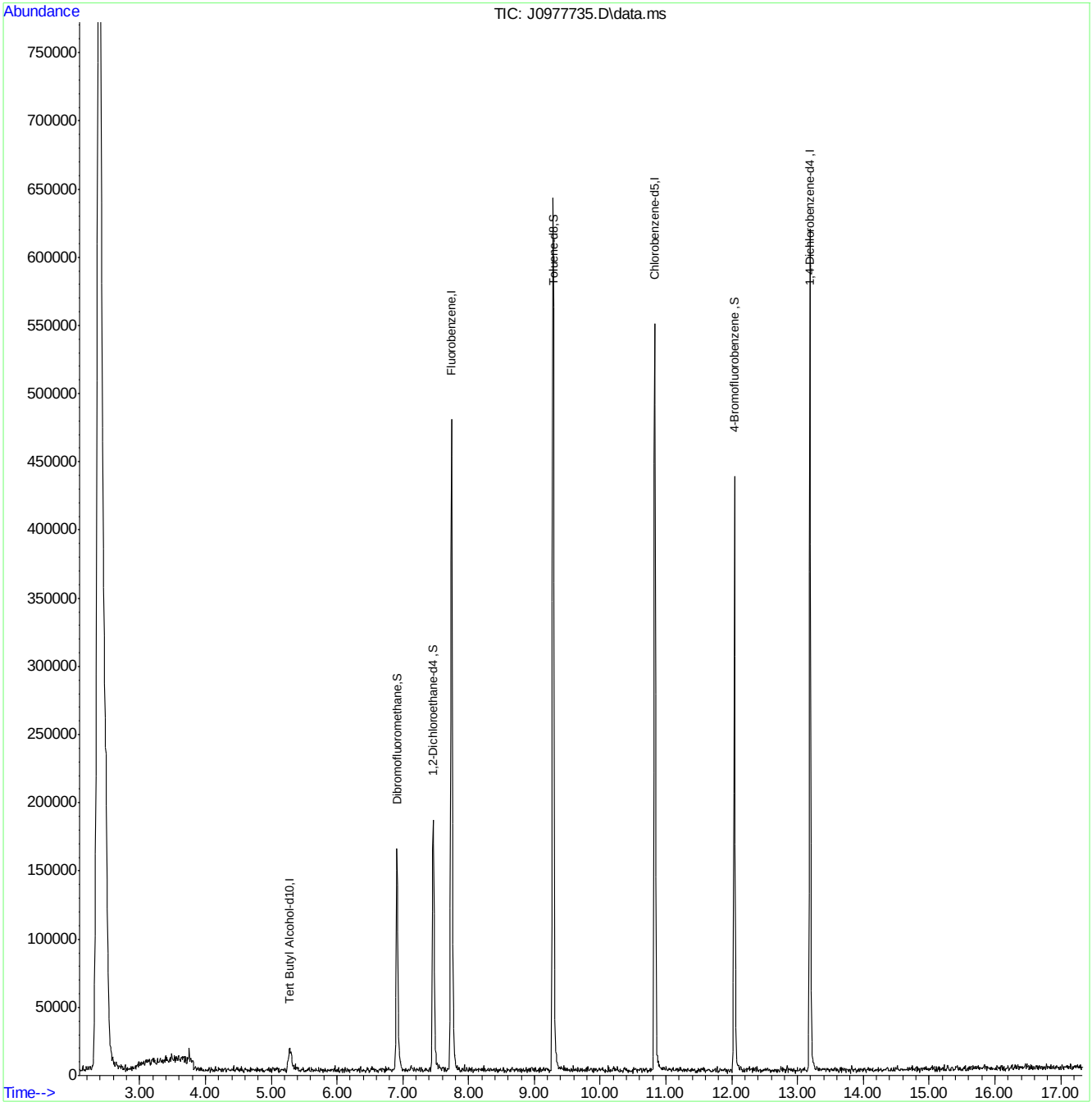
7

SGS ACCUTEST FA34891

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\063016\
Data File : J0977735.D
Acq On : 30 Jun 2016 5:03 pm
Operator : darshnap
Sample : fa34891-7 ma Inst : MSVOA6
Misc : MS34294,vj5358,,,,,
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Jul 01 07:58:54 2016
Quant Method : C:\msdchem\1\methods\MSJ062116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 21 11:35:53 2016
Response via : Initial Calibration



MSJ062116a.M Fri Jul 01 08:06:50 2016 Page: 2

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\070116\
Data File : J0977760.D
Acq On : 1 Jul 2016 2:48 pm
Operator : darshnap
Sample : fa34891-8 ma Inst : MSVOA6
Misc : MS34294,vj5360,,,,,
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jul 05 07:29:53 2016
Quant Method : C:\msdchem\1\methods\MSJ070116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Jul 01 12:56:34 2016
Response via : Initial Calibration

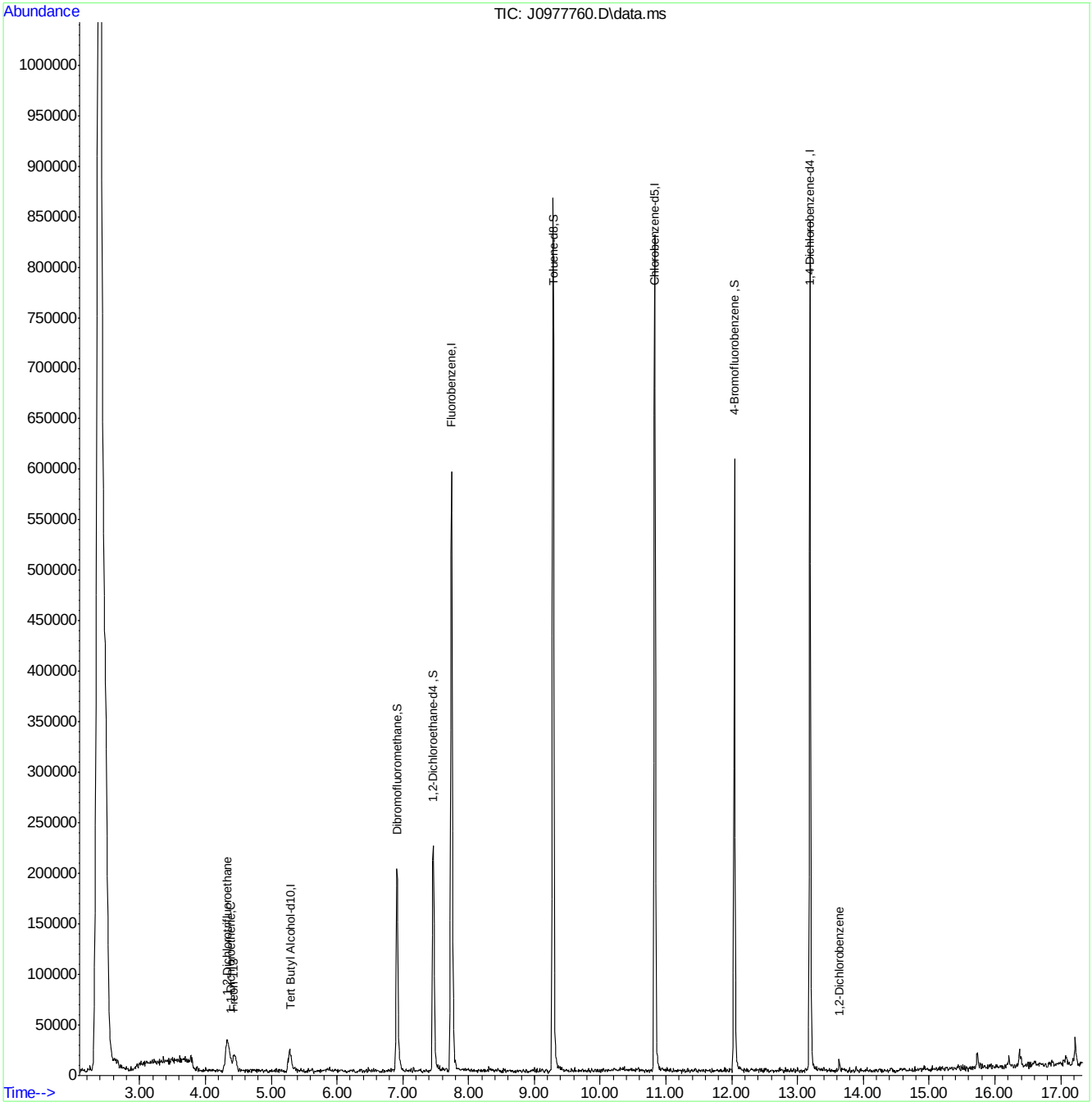
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.740	96	533086	50.00	ug/L	0.00
56) Chlorobenzene-d5	10.830	117	378269	50.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	13.186	152	177956	50.00	ug/L	0.00
106) Tert Butyl Alcohol-d10	5.290	65	28951	250.00	ug/L	0.01
System Monitoring Compounds						
36) Dibromofluoromethane	6.917	113	128392	48.51	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 97.02%			
46) 1,2-Dichloroethane-d4	7.464	65	161332	47.37	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 94.74%			
57) Toluene-d8	9.285	98	518859	52.48	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 104.96%			
79) 4-Bromofluorobenzene	12.041	95	179209	51.52	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 103.04%			
Target Compounds						Qvalue
10) 1,2-Dichlorotrifluoroe...	4.332	67	35378	11.07	ug/L	91
11) 1,1-Dichloroethene	4.391	61	3511	0.84	ug/L	92
12) Freon 113	4.432	101	13404	4.44	ug/L #	80
100) 1,2-Dichlorobenzene	13.639	146	3939	0.82	ug/L	76

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

Quantitation Report (QT Reviewed)

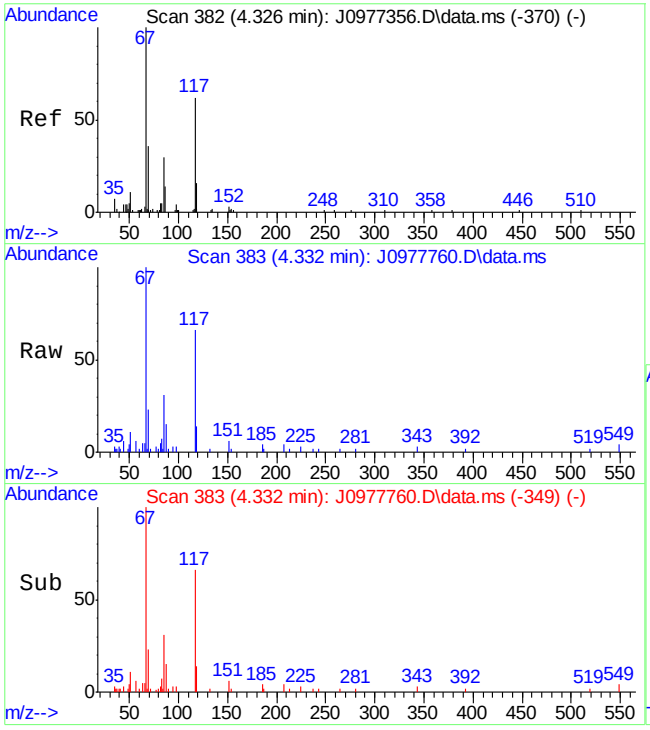
Data Path : C:\msdchem\1\data\070116\
Data File : J0977760.D
Acq On : 1 Jul 2016 2:48 pm
Operator : darshnap
Sample : fa34891-8 ma Inst : MSVOA6
Misc : MS34294,vj5360,,,,,
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jul 05 07:29:53 2016
Quant Method : C:\msdchem\1\methods\MSJ070116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Jul 01 12:56:34 2016
Response via : Initial Calibration



MSJ070116a.M Tue Jul 05 07:53:13 2016 Page: 2

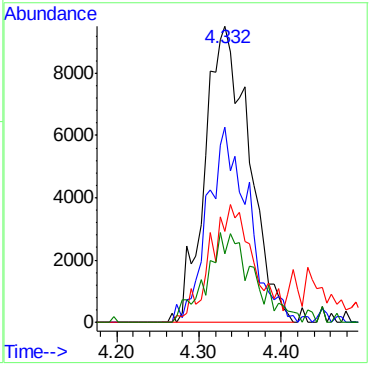
SGS ACCUTEST FA34891

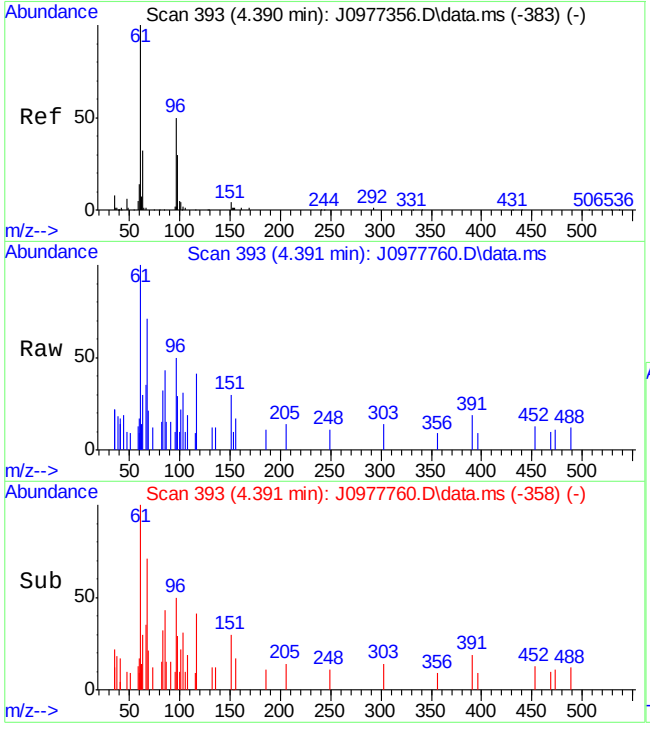


#10
1,2-Dichlorotrifluoroethane
Concen: 11.07 ug/L
RT: 4.332 min Scan# 383
Delta R.T. -0.000 min
Lab File: J0977760.D
Acq: 1 Jul 2016 2:48 pm

Tgt Ion: 67 Resp: 35378

Ion	Ratio	Lower	Upper
67	100		
117	66.0	37.9	77.9
85	30.7	16.2	56.2
69	23.1	5.8	45.8

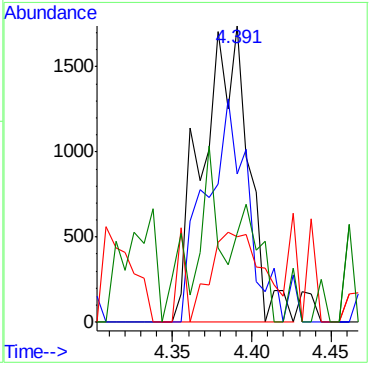




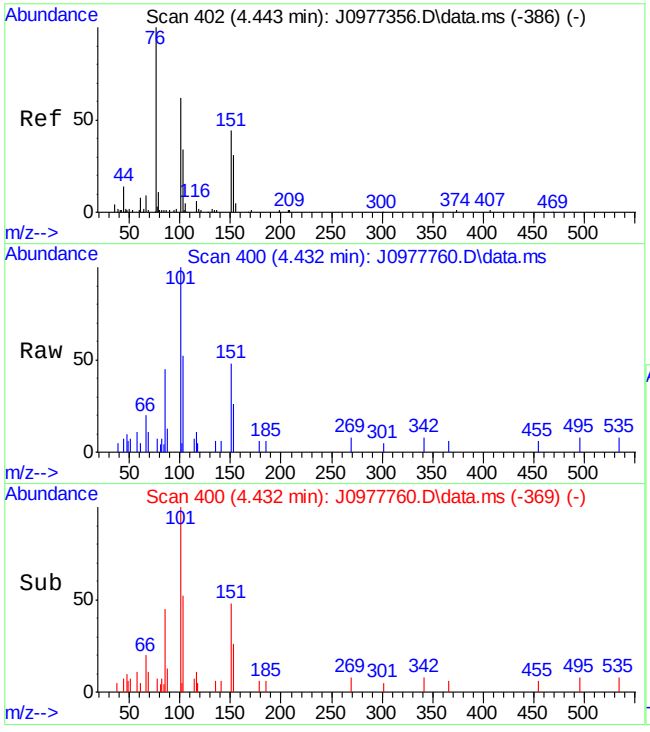
#11
1,1-Dichloroethene
Concen: 0.84 ug/L
RT: 4.391 min Scan# 393
Delta R.T. 0.006 min
Lab File: J0977760.D
Acq: 1 Jul 2016 2:48 pm

Tgt Ion: 61 Resp: 3511

Ion	Ratio	Lower	Upper
61	100		
96	50.2	27.1	87.1
98	28.7	4.6	64.6
63	30.1	0.0	59.3



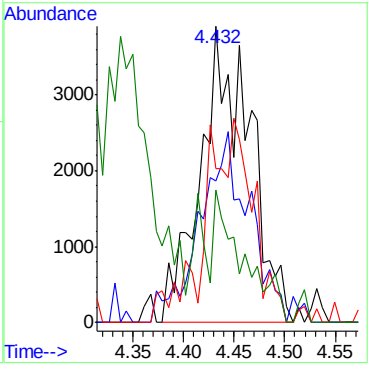
SGS ACCUTEST FA34891

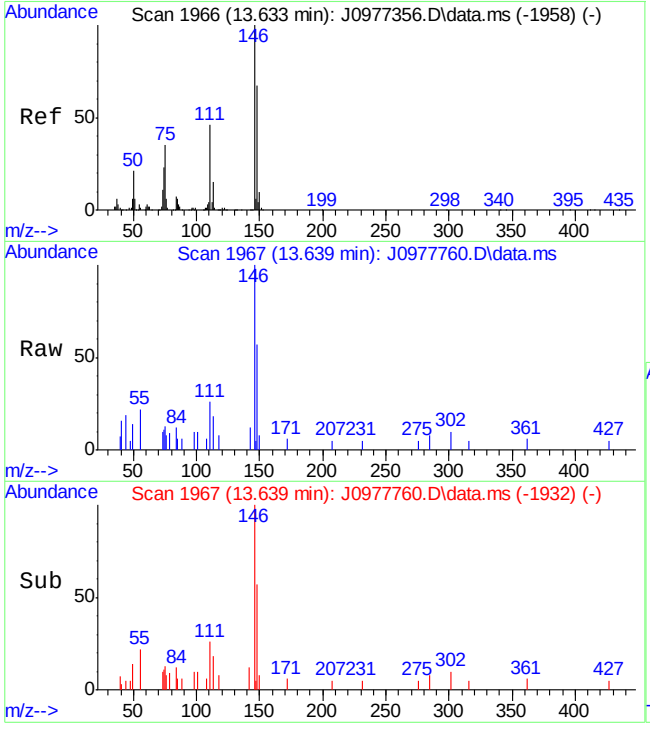


#12
Freon 113
Concen: 4.44 ug/L
RT: 4.432 min Scan# 400
Delta R.T. -0.017 min
Lab File: J0977760.D
Acq: 1 Jul 2016 2:48 pm

Tgt Ion:101 Resp: 13404

Ion	Ratio	Lower	Upper
101	100		
151	40.5	43.0	83.0#
103	52.0	49.8	89.8
85	44.8	22.8	62.8

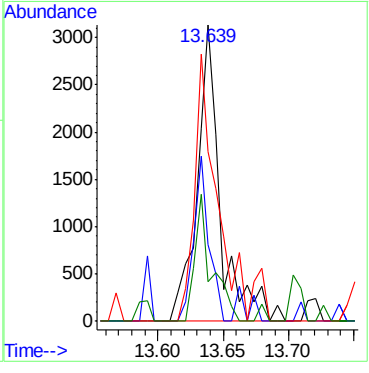




#100
1,2-Dichlorobenzene
Concen: 0.82 ug/L
RT: 13.639 min Scan# 1967
Delta R.T. 0.006 min
Lab File: J0977760.D
Acq: 1 Jul 2016 2:48 pm

Tgt Ion:146 Resp: 3939

Ion	Ratio	Lower	Upper
146	100		
111	25.7	18.1	78.1
148	57.3	34.9	94.9
75	13.4	6.7	66.7



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\070116\
Data File : J0977761.D
Acq On : 1 Jul 2016 3:11 pm
Operator : darshnap
Sample : fa34891-9 ma Inst : MSVOA6
Misc : MS34294,vj5360,,,,,
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jul 05 07:30:17 2016
Quant Method : C:\msdchem\1\methods\MSJ070116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Jul 01 12:56:34 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.740	96	528104	50.00	ug/L	0.00
56) Chlorobenzene-d5	10.830	117	370381	50.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	13.186	152	169132	50.00	ug/L	0.00
106) Tert Butyl Alcohol-d10	5.278	65	29487	250.00	ug/L	0.00
System Monitoring Compounds						
36) Dibromofluoromethane	6.911	113	129230	49.28	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 98.56%			
46) 1,2-Dichloroethane-d4	7.464	65	155677	46.14	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 92.28%			
57) Toluene-d8	9.285	98	514854	53.19	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 106.38%			
79) 4-Bromofluorobenzene	12.041	95	173772	52.56	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 105.12%			

Target Compounds Qvalue

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

7.1.10

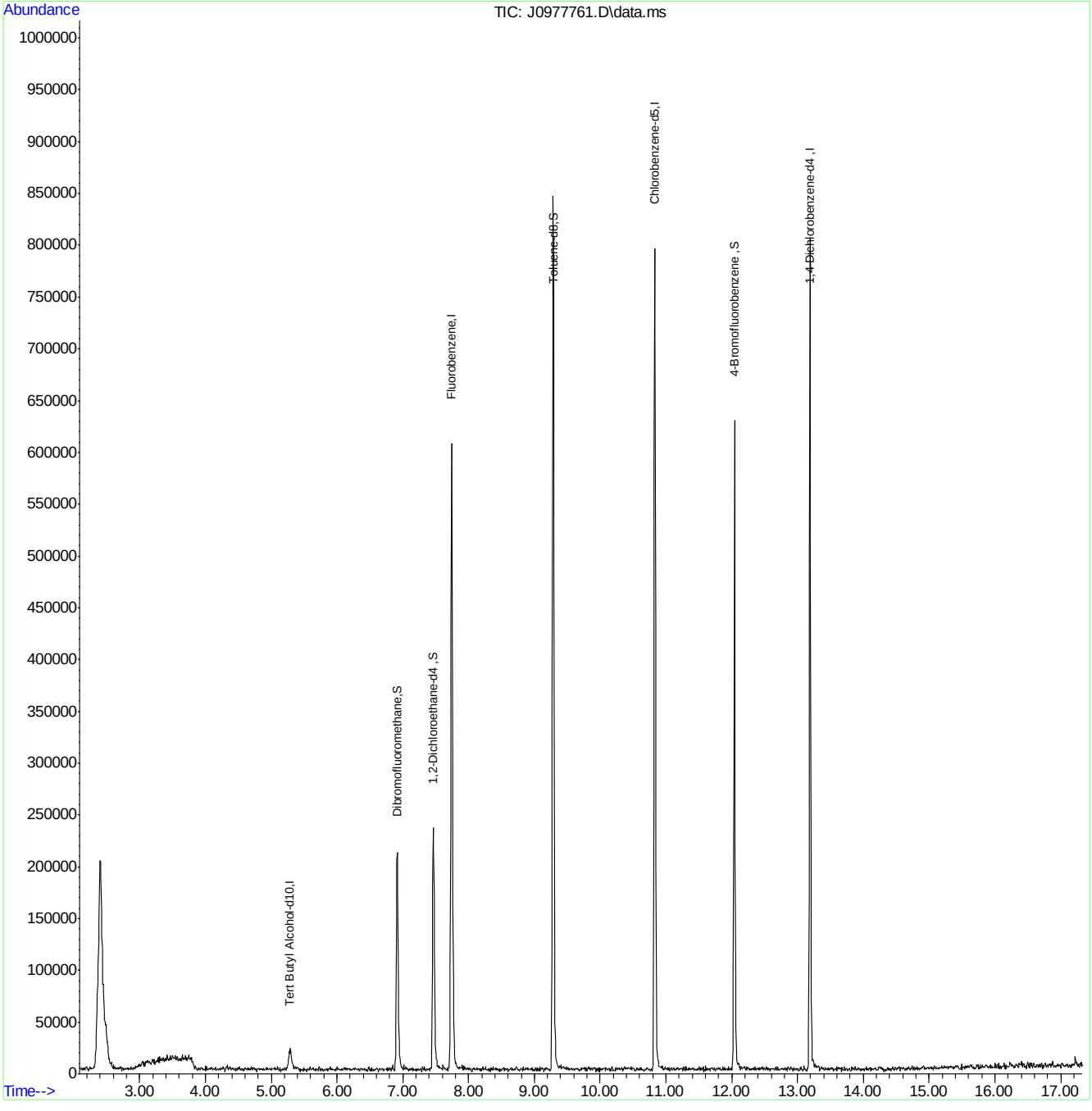
7

SGS ACCUTEST FA34891

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\070116\
Data File : J0977761.D
Acq On : 1 Jul 2016 3:11 pm
Operator : darshnap
Sample : fa34891-9 ma Inst : MSVOA6
Misc : MS34294,vj5360,,,,,
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jul 05 07:30:17 2016
Quant Method : C:\msdchem\1\methods\MSJ070116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Jul 01 12:56:34 2016
Response via : Initial Calibration



MSJ070116a.M Tue Jul 05 07:53:15 2016 Page: 2

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\063016\
Data File : J0977738.D
Acq On : 30 Jun 2016 6:11 pm
Operator : darshnap
Sample : MB ma Inst : MSVOA6
Misc : MS34294,vj5358,,,,,
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Jul 01 08:00:46 2016
Quant Method : C:\msdchem\1\methods\MSJ062116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 21 11:35:53 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.740	96	342468	50.00	ug/L	0.00
56) Chlorobenzene-d5	10.830	117	247285	50.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	13.186	152	109008	50.00	ug/L	0.00
106) Tert Butyl Alcohol-d10	5.278	65	21485	250.00	ug/L	-0.02
System Monitoring Compounds						
36) Dibromofluoromethane	6.911	113	83028	46.06	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 92.12%			
46) 1,2-Dichloroethane-d4	7.464	65	117720	44.75	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 89.50%			
57) Toluene-d8	9.285	98	342806	52.45	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 104.90%			
79) 4-Bromofluorobenzene	12.041	95	106282	50.75	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 101.50%			

Target Compounds Qvalue

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

7.2.1

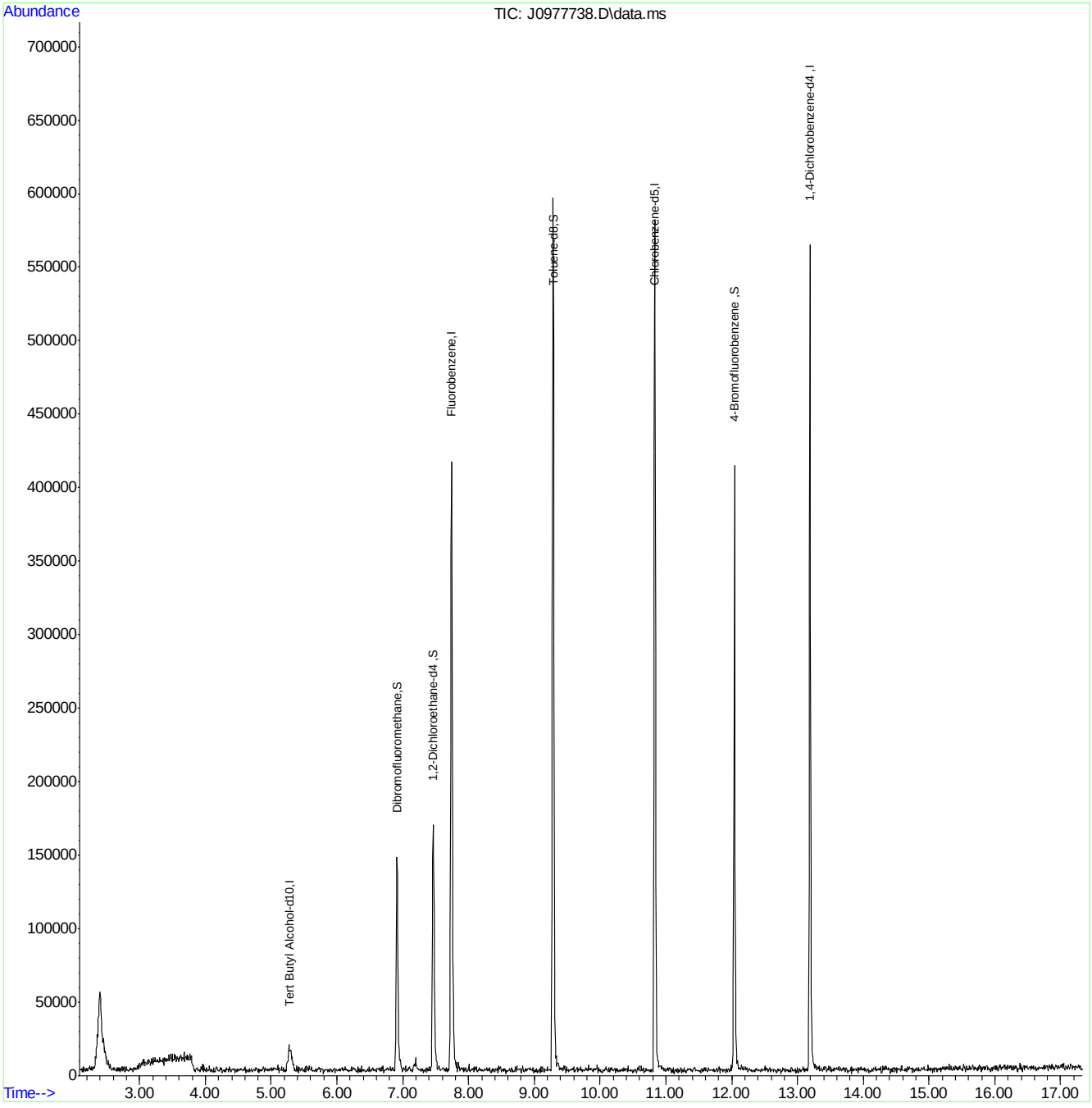
7

SGS ACCUTEST FA34891

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\063016\
Data File : J0977738.D
Acq On : 30 Jun 2016 6:11 pm
Operator : darshnap
Sample : MB ma Inst : MSVOA6
Misc : MS34294,vj5358,,,,,
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Jul 01 08:00:46 2016
Quant Method : C:\msdchem\1\methods\MSJ062116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 21 11:35:53 2016
Response via : Initial Calibration



MSJ062116a.M Fri Jul 01 08:14:33 2016 Page: 2

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\070116\
Data File : J0977757.D
Acq On : 1 Jul 2016 1:39 pm
Operator : darshnap
Sample : mb ma Inst : MSVOA6
Misc : MS34294,vj5360,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 05 07:25:21 2016
Quant Method : C:\msdchem\1\methods\MSJ070116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Jul 01 12:56:34 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.745	96	463405	50.00	ug/L	0.00
56) Chlorobenzene-d5	10.830	117	329426	50.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	13.186	152	151876	50.00	ug/L	0.00
106) Tert Butyl Alcohol-d10	5.284	65	33941	250.00	ug/L	0.00
System Monitoring Compounds						
36) Dibromofluoromethane	6.917	113	116437	50.61	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 101.22%			
46) 1,2-Dichloroethane-d4	7.463	65	147688	49.88	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 99.76%			
57) Toluene-d8	9.285	98	450871	52.37	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 104.74%			
79) 4-Bromofluorobenzene	12.041	95	150242	50.61	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 101.22%			

Target Compounds Qvalue

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

7.2.2

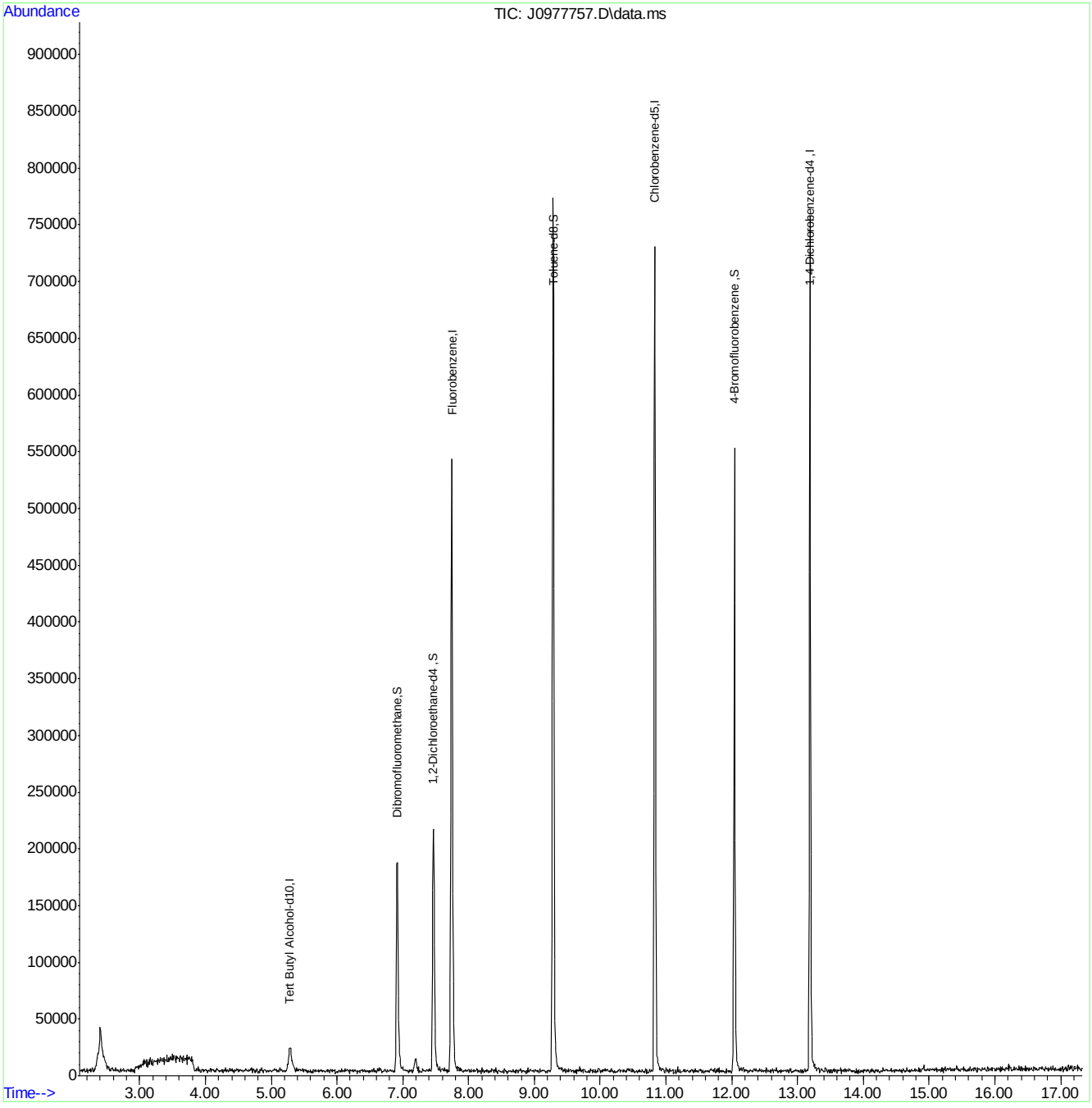
7

SGS ACCUTEST FA34891

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\070116\
Data File : J0977757.D
Acq On : 1 Jul 2016 1:39 pm
Operator : darshnap
Sample : mb ma Inst : MSVOA6
Misc : MS34294,vj5360,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 05 07:25:21 2016
Quant Method : C:\msdchem\1\methods\MSJ070116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Jul 01 12:56:34 2016
Response via : Initial Calibration



MSJ070116a.M Tue Jul 05 09:44:45 2016 Page: 2

Manual Integrations APPROVED (compounds with "m" flag)
Juan Garcia
07/01/16 12:04

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\063016\
Data File : J0977717.D
Acq On : 30 Jun 2016 9:41 am
Operator : darshnap
Sample : bs ma Inst : MSVOA6
Misc : MS34294,vj5358,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 30 10:07:44 2016
Quant Method : C:\msdchem\1\methods\MSJ062116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 21 11:35:53 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.740	96	619510	50.00	ug/L	0.00
56) Chlorobenzene-d5	10.830	117	429644	50.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	13.192	152	209332	50.00	ug/L	0.00
106) Tert Butyl Alcohol-d10	5.284	65	40797	250.00	ug/L	#-0.01
System Monitoring Compounds						
36) Dibromofluoromethane	6.911	113	155369	47.65	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 95.30%			
46) 1,2-Dichloroethane-d4	7.464	65	195895	41.17	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 82.34%			
57) Toluene-d8	9.285	98	599737	52.81	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 105.62%			
79) 4-Bromofluorobenzene	12.041	95	214989	53.46	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 106.92%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.669	85	71870	16.10	ug/L	88
3) Chloromethane	2.892	50	101221	22.49	ug/L	93
4) Vinyl Chloride	3.033	62	107758	24.17	ug/L	90
5) 1,3-Butadiene	2.998	54	1849	0.53	ug/L #	77
6) Bromomethane	3.445	94	87554	23.31	ug/L	97
7) Chloroethane	3.597	64	74061	24.79	ug/L	93
8) Trichlorofluoromethane	3.768	101	176298	23.39	ug/L	99
9) Ethyl Ether	4.109	59	73068	24.80	ug/L	95
10) 1,2-Dichlorotrifluoroe...	4.338	67	122835	32.49	ug/L	87
11) 1,1-Dichloroethene	4.391	61	144234	25.64	ug/L	92
12) Freon 113	4.455	101	83098	24.38	ug/L #	85
13) Carbon Disulfide	4.461	76	284760	27.46	ug/L	91
14) Iodomethane	4.579	142	123315	23.11	ug/L	95
15) Allyl chloride	4.914	41	102051	21.42	ug/L	86
16) Methylene Chloride	5.031	49	134098	26.96	ug/L	98
17) Acetone	5.055	58	26662	129.38	ug/L #	45
18) Methyl acetate	5.184	74	47149	125.27	ug/L #	71
19) trans-1,2-Dichloroethene	5.219	61	136168	29.43	ug/L	88
20) Hexane	5.290	56	86144	27.83	ug/L	93
21) Methyl Tert Butyl Ether	5.319	73	191926	19.18	ug/L	96
22) Acetonitrile	5.577	40	32127	207.52	ug/L #	82
23) Di-isopropyl ether	5.701	45	265904	22.14	ug/L	96
24) Chloroprene	5.854	53	126030	19.32	ug/L	93
25) 1,1-Dichloroethane	5.889	63	173992	27.92	ug/L	95
26) Acrylonitrile	5.918	53	101538	112.34	ug/L	93
27) ETBE	6.100	59	253852	20.21	ug/L	96
28) Vinyl acetate	6.095	43	662742	100.32	ug/L	100
29) cis-1,2-Dichloroethene	6.459	96	95391	25.06	ug/L	83
30) 2,2-Dichloropropane	6.594	77	127068	24.12	ug/L	96
31) Bromochloromethane	6.670	128	40229	24.13	ug/L	94
32) Cyclohexane	6.717	56	167622	28.65	ug/L	92
33) Chloroform	6.723	83	171883	24.28	ug/L	98
34) Ethyl acetate	6.788	43	242387	100.88	ug/L	97

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\063016\
Data File : J0977717.D
Acq On : 30 Jun 2016 9:41 am
Operator : darshnap
Sample : bs ma Inst : MSVOA6
Misc : MS34294,vj5358,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 30 10:07:44 2016
Quant Method : C:\msdchem\1\methods\MSJ062116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 21 11:35:53 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
35) Tetrahydrofuran	6.905	42	16873	24.41 ug/L #	68
37) Carbon Tetrachloride	6.923	117	119080	23.41 ug/L	91
38) 1,1,1-Trichloroethane	6.982	97	140632	22.49 ug/L	96
39) 2-Butanone	7.005	43	110461	116.63 ug/L	90
40) 1,1-Dichloropropene	7.088	75	119896	26.33 ug/L	89
41) tert-Butyl Formate	7.176	59	465518	217.22 ug/L #	79
42) Propionitrile	7.317	54	86477	258.03 ug/L	90
43) Methacrylonitrile	7.340	41	332233	218.01 ug/L	95
44) Benzene	7.346	78	365025	28.78 ug/L	85
45) TAME	7.422	73	213785	21.25 ug/L	93
47) 1,2-Dichloroethane	7.528	62	113211	19.54 ug/L	89
48) Trichloroethene	7.922	95	90962	26.43 ug/L	92
49) Methylcyclohexane	7.945	83	159892	26.65 ug/L	87
50) Dibromomethane	8.345	93	48500	25.27 ug/L	87
51) 1,2-Dichloropropane	8.433	63	94495	28.17 ug/L	82
52) Bromodichloromethane	8.480	83	113607	22.03 ug/L	96
53) Methyl methacrylate	8.580	41	41730	17.58 ug/L #	59
54) 2-Chloroethyl vinyl ether	8.991	63	219987	122.56 ug/L	93
55) cis-1,3-Dichloropropene	9.097	75	126794	22.79 ug/L	84
58) Toluene	9.338	91	384534	28.71 ug/L	98
59) 2-Nitropropane	9.543	41	62089	81.38 ug/L	91
60) 4-Methyl-2-pentanone	9.661	43	260589	122.39 ug/L	96
61) trans-1,3-Dichloropropene	9.720	75	112092	24.68 ug/L	97
62) Tetrachloroethene	9.743	166	82666	25.07 ug/L	93
63) Ethyl methacrylate	9.831	69	68126	20.25 ug/L #	72
64) 1,1,2-Trichloroethane	9.890	83	60681	27.47 ug/L	92
65) Dibromochloromethane	10.084	129	71259	22.13 ug/L	96
66) 1,3-Dichloropropane	10.166	76	116673	24.91 ug/L	84
67) 1,2-Dibromoethane	10.348	107	66851	25.34 ug/L	97
68) 2-hexanone	10.472	43	175290	121.11 ug/L	93
69) 1-Chlorohexane	10.777	91	118530	27.68 ug/L	86
70) Ethylbenzene	10.848	91	443353	27.66 ug/L	99
71) Chlorobenzene	10.848	112	246310	28.85 ug/L	96
72) 1,1,1,2-Tetrachloroethane	10.901	131	77324	26.17 ug/L	96
73) m,p-Xylene	10.983	91	682113	55.04 ug/L	95
74) o-Xylene	11.424	91	340244	26.07 ug/L	91
75) Styrene	11.471	104	247864	25.61 ug/L	96
76) Bromoform	11.535	173	37083	19.81 ug/L	93
77) Isopropylbenzene	11.729	105	424191	28.19 ug/L	97
80) cis-1,4-Dichloro-2-butene	12.076	53	20684	20.55 ug/L #	87
81) n-Propylbenzene	12.146	91	519747	31.14 ug/L	96
82) Bromobenzene	12.170	156	84858	25.54 ug/L	97
83) 1,1,2,2-Tetrachloroethane	12.205	83	85629	30.06 ug/L	98
84) 1,3,5-Trimethylbenzene	12.329	105	342832	27.64 ug/L	87
85) 2-Chlorotoluene	12.334	91	343016	29.33 ug/L	96
86) trans-1,4-Dichloro-2-B...	12.387	53	19606	19.76 ug/L #	67
87) 1,2,3-Trichloropropane	12.364	110	24015	28.62 ug/L	92
88) Cyclohexanone	12.434	55	10157	144.38 ug/L	89
89) 4-Chlorotoluene	12.505	91	304531	27.36 ug/L	95
90) a-Methyl Styrene	12.675	118	3590	0.61 ug/L #	1

SGS ACCUTEST FA34891

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\063016\
Data File : J0977717.D
Acq On : 30 Jun 2016 9:41 am
Operator : darshnap
Sample : bs ma Inst : MSVOA6
Misc : MS34294,vj5358,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 30 10:07:44 2016
Quant Method : C:\msdchem\1\methods\MSJ062116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 21 11:35:53 2016
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
91)	tert-Butylbenzene	12.669	91	200556	27.78	ug/L		92
92)	1,2,4-Trimethylbenzene	12.740	105	358078	28.58	ug/L		96
93)	Pentachloroethane	12.722	167	49509	26.20	ug/L		89
94)	sec-Butylbenzene	12.851	105	463138	31.21	ug/L		97
95)	4-Isopropyltoluene	12.987	119	367460	29.24	ug/L		96
96)	1,3-Dichlorobenzene	13.122	146	177903	29.58	ug/L		92
97)	1,4-Dichlorobenzene	13.204	146	171930	28.05	ug/L		97
98)	n-Butylbenzene	13.416	92	209181	29.14	ug/L		93
99)	Benzyl Chloride	13.433	126	23546	22.55	ug/L	#	73
100)	1,2-Dichlorobenzene	13.633	146	161190	28.62	ug/L		94
101)	1,2-Dibromo-3-Chloropr...	14.367	75	11731	23.66	ug/L	#	70
102)	Hexachlorobutadiene	14.914	225	54960	22.58	ug/L		90
103)	1,2,4-Trichlorobenzene	14.961	180	98156	21.75	ug/L		96
104)	Naphthalene	15.243	128	193931	29.86	ug/L		100
105)	1,2,3-Trichlorobenzene	15.413	180	79776	24.00	ug/L		91
107)	Ethanol	4.255	45	13167m	618.33	ug/L		
108)	acrolein	4.743	56	70148	160.61	ug/L	#	71
109)	Tert Butyl Alcohol	5.366	59	47753	204.47	ug/L		90
110)	tert Amyl alcohol	7.563	59	39489	216.97	ug/L		84
111)	Isobutyl alcohol	7.434	42	35704	505.67	ug/L	#	87
112)	1,4-Dioxane	8.656	88	10066	482.19	ug/L		84
113)	3,3-Dimethyl-1-butanol	10.419	57	257112	1551.26	ug/L		88

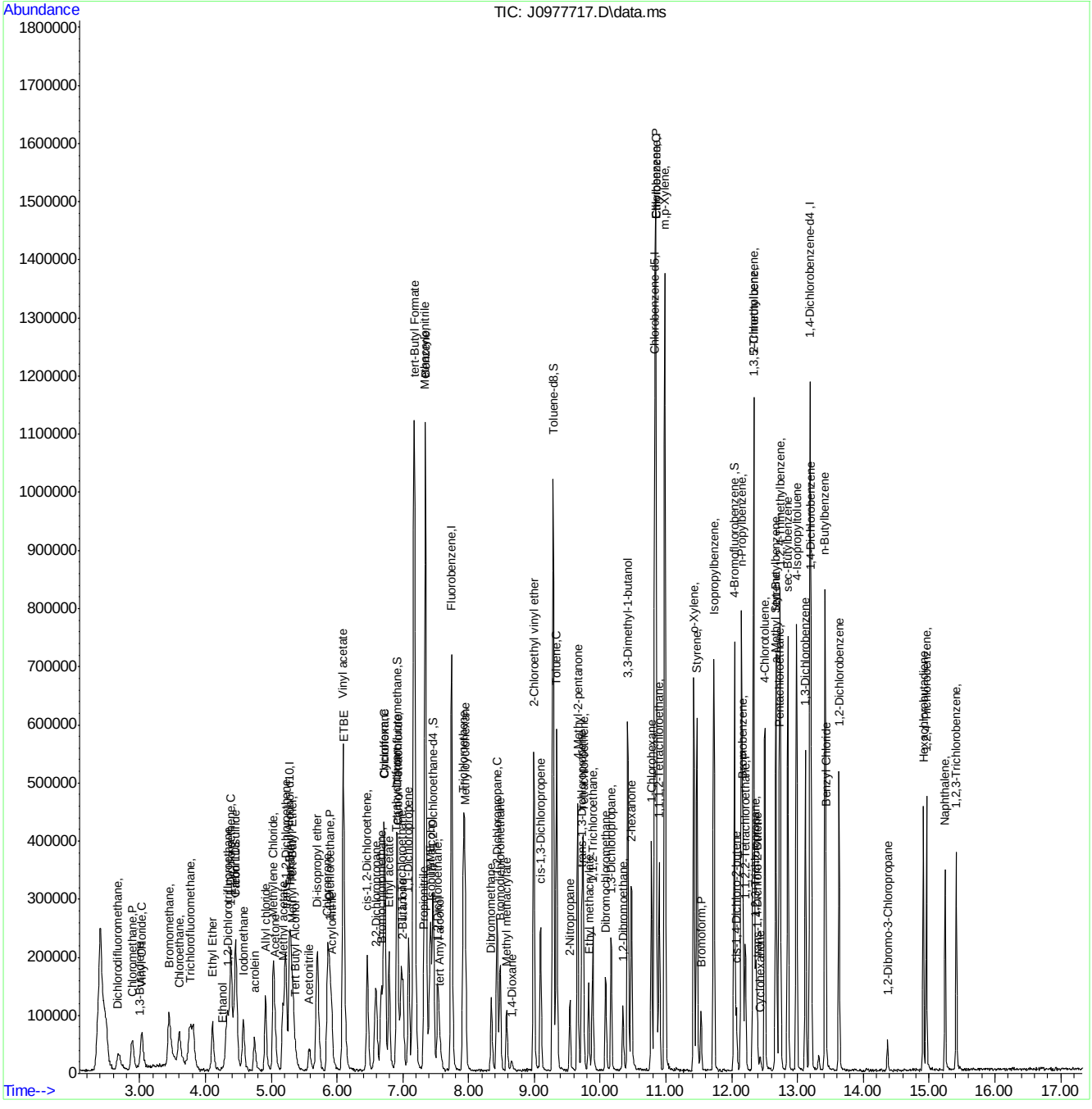
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST FA34891

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\063016\
Data File : J0977717.D
Acq On : 30 Jun 2016 9:41 am
Operator : darshnap
Sample : bs ma Inst : MSVOA6
Misc : MS34294,vj5358,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 30 10:07:44 2016
Quant Method : C:\msdchem\1\methods\MSJ062116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 21 11:35:53 2016
Response via : Initial Calibration



MSJ062116a.M Fri Jul 01 08:14:00 2016 Page: 4

SGS ACCUTEST FA34891

Manual Integration Approval Summary

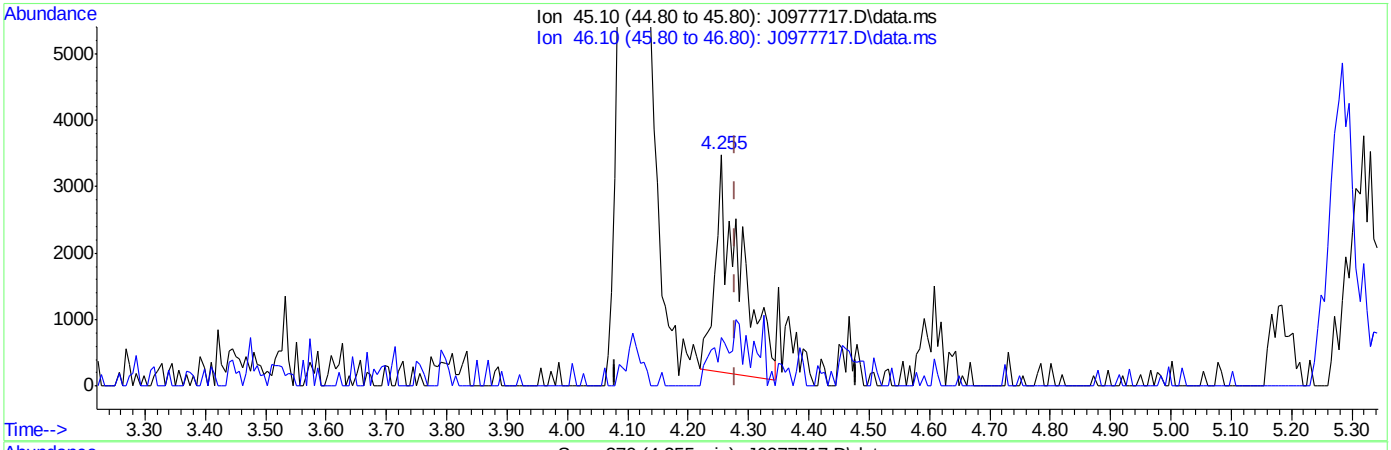
Sample Number:	VJ5358-BS	**Method:**	SW846 8260C
Lab FileID:	J0977717.D	**Analyst approved:**	07/01/16 10:25 Darshna Patel
Injection Time:	06/30/16 09:41	**Supervisor approved:**	07/01/16 12:04 Juan Garcia

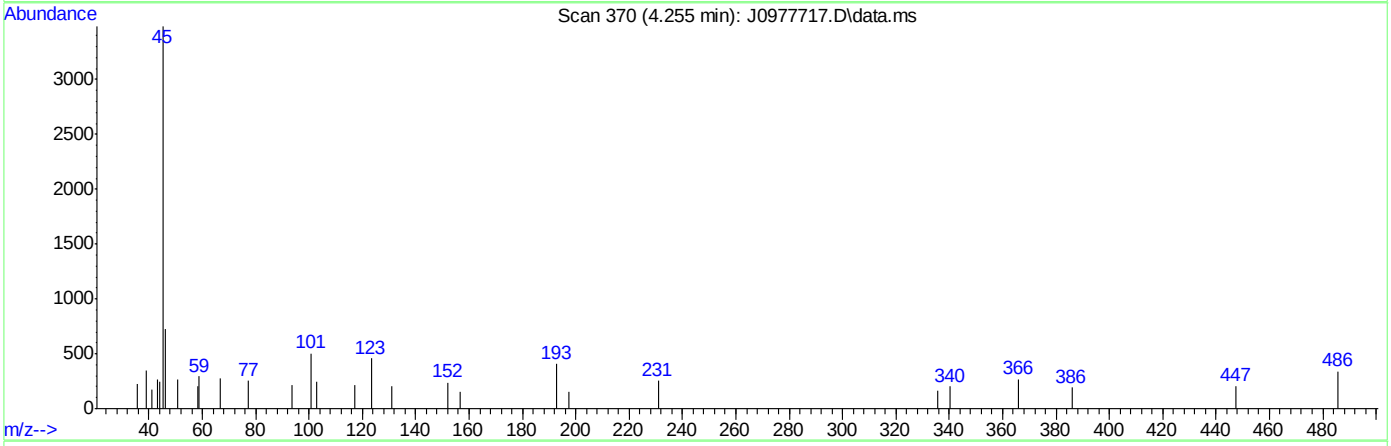
Parameter	CAS	Sig#	R.T. (min.)	Reason
Ethyl Alcohol	64-17-5		4.26	Poor instrument integration

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\063016\
Data File : J0977717.D
Acq On : 30 Jun 2016 9:41 am
Operator : darshnap
Sample : bs Inst : MSVOA6
Misc : MS34260,vj5357,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 30 10:07:28 2016
Quant Method : C:\msdchem\1\methods\MSJ062116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 21 11:35:53 2016
Response via : Initial Calibration





TIC: J0977717.D\data.ms

(107) Ethanol

4.255min (-0.023) 444.71ug/L

response 9470

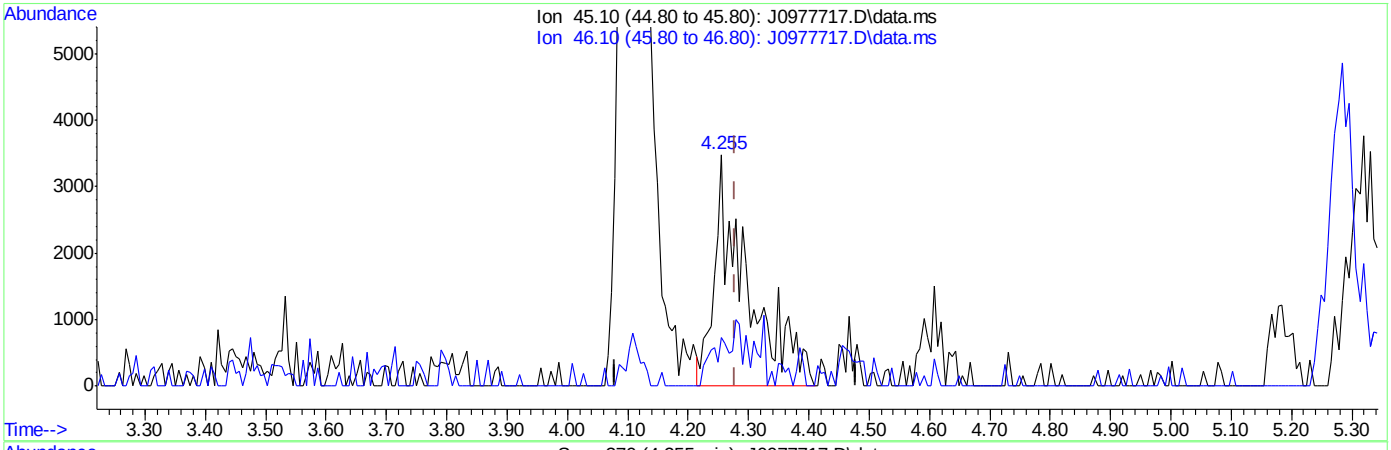
Ion	Exp%	Act%
45.10	100	100
46.10	23.90	22.47
0.00	0.00	0.00
0.00	0.00	0.00

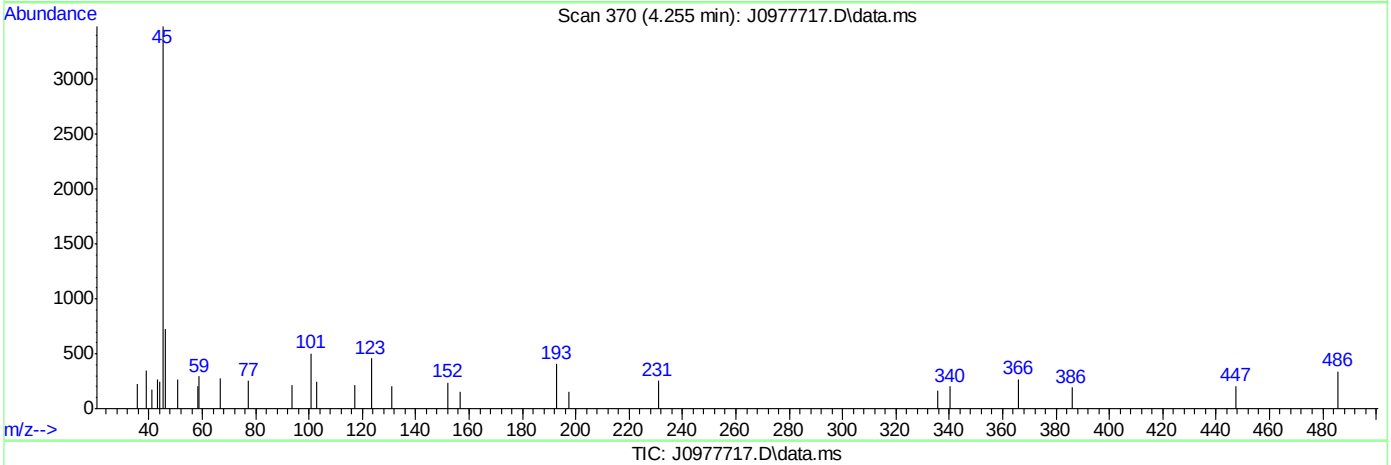
SGS ACCUTEST FA34891

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\063016\
Data File : J0977717.D
Acq On : 30 Jun 2016 9:41 am
Operator : darshnap
Sample : bs Inst : MSVOA6
Misc : MS34260,vj5357,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 30 10:07:28 2016
Quant Method : C:\msdchem\1\methods\MSJ062116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 21 11:35:53 2016
Response via : Initial Calibration





TIC: J0977717.D\data.ms

(107) Ethanol

4.255min (-0.023) 618.33ug/L m

response 13167

Ion	Exp%	Act%
45.10	100	100
46.10	23.90	20.75
0.00	0.00	0.00
0.00	0.00	0.00

SGS ACCUTEST FA34891

Manual Integrations APPROVED (compounds with "m" flag)
Juan Garcia
07/05/16 13:50

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\070116\
Data File : J0977756.D
Acq On : 1 Jul 2016 1:16 pm
Operator : darshnap
Sample : bs ma Inst : MSVOA6
Misc : MS34294,vj5360,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 01 13:35:11 2016
Quant Method : C:\msdchem\1\methods\MSJ070116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Jul 01 12:56:34 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.740	96	511709	50.00	ug/L	0.00
56) Chlorobenzene-d5	10.830	117	377532	50.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	13.192	152	186182	50.00	ug/L	0.00
106) Tert Butyl Alcohol-d10	5.295	65	41415	250.00	ug/L	0.02
System Monitoring Compounds						
36) Dibromofluoromethane	6.911	113	132456	52.13	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 104.26%			
46) 1,2-Dichloroethane-d4	7.463	65	160343	49.04	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 98.08%			
57) Toluene-d8	9.285	98	532950	54.01	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 108.02%			
79) 4-Bromofluorobenzene	12.041	95	186636	51.28	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 102.56%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.663	85	72879	28.90	ug/L	83
3) Chloromethane	2.892	50	102806	33.04	ug/L	93
4) Vinyl Chloride	3.033	62	112379	30.76	ug/L	94
6) Bromomethane	3.445	94	100560	32.58	ug/L	82
7) Chloroethane	3.597	64	76997	34.41	ug/L	95
8) Trichlorofluoromethane	3.768	101	192594	34.74	ug/L	95
9) Ethyl Ether	4.109	59	61440	26.59	ug/L	91
10) 1,2-Dichlorotrifluoroe...	4.338	67	103887	33.87	ug/L	90
11) 1,1-Dichloroethene	4.385	61	131527	32.96	ug/L	95
12) Freon 113	4.449	101	78708	28.07	ug/L	90
13) Carbon Disulfide	4.461	76	247636	28.47	ug/L	96
14) Iodomethane	4.579	142	110963	28.06	ug/L	97
15) Allyl chloride	4.913	41	83256	26.79	ug/L	91
16) Methylene Chloride	5.025	49	111548	27.74	ug/L	92
17) Acetone	5.049	58	22376	133.63	ug/L	92
18) Methyl acetate	5.178	74	42568	139.73	ug/L #	76
19) trans-1,2-Dichloroethene	5.219	61	117051	33.73	ug/L	88
20) Hexane	5.284	56	73459	28.83	ug/L #	88
21) Methyl Tert Butyl Ether	5.319	73	179486	26.46	ug/L	98
22) Acetonitrile	5.572	40	27398	266.40	ug/L	85
23) Di-isopropyl ether	5.701	45	226668	23.86	ug/L	96
24) Chloroprene	5.854	53	105458	26.68	ug/L	86
25) 1,1-Dichloroethane	5.889	63	147009	29.79	ug/L	97
26) Acrylonitrile	5.912	53	87912	120.17	ug/L	76
27) ETBE	6.106	59	224606	26.42	ug/L	96
28) Vinyl acetate	6.094	43	481810	103.67	ug/L	99
29) cis-1,2-Dichloroethene	6.459	96	79554	24.79	ug/L	90
30) 2,2-Dichloropropane	6.588	77	109559	31.54	ug/L	96
31) Bromochloromethane	6.664	128	33755	25.69	ug/L	91
32) Cyclohexane	6.717	56	133857	29.58	ug/L	93
33) Chloroform	6.723	83	139174	28.01	ug/L	88
34) Ethyl acetate	6.788	43	186180	107.87	ug/L	94
35) Tetrahydrofuran	6.905	42	14377	29.87	ug/L	81

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\070116\
Data File : J0977756.D
Acq On : 1 Jul 2016 1:16 pm
Operator : darshnap
Sample : bs ma Inst : MSVOA6
Misc : MS34294,vj5360,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 01 13:35:11 2016
Quant Method : C:\msdchem\1\methods\MSJ070116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Jul 01 12:56:34 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
37) Carbon Tetrachloride	6.917	117	105127m	29.96 ug/L	
38) 1,1,1-Trichloroethane	6.976	97	119365	27.50 ug/L	96
39) 2-Butanone	7.005	43	87362	126.95 ug/L	88
40) 1,1-Dichloropropene	7.087	75	99688	26.32 ug/L	93
41) tert-Butyl Formate	7.170	59	315263	233.83 ug/L	91
42) Propionitrile	7.317	54	69967	256.91 ug/L	98
43) Methacrylonitrile	7.346	41	283168	251.80 ug/L	93
44) Benzene	7.340	78	297765	27.36 ug/L	99
45) TAME	7.416	73	163098	23.06 ug/L	93
47) 1,2-Dichloroethane	7.528	62	95732	23.11 ug/L	98
48) Trichloroethene	7.916	95	75652	28.89 ug/L	84
49) Methylcyclohexane	7.939	83	128723	26.35 ug/L	98
50) Dibromomethane	8.345	93	39409	25.16 ug/L	97
51) 1,2-Dichloropropane	8.433	63	76817	26.03 ug/L	95
52) Bromodichloromethane	8.480	83	105615	30.55 ug/L	94
53) Methyl methacrylate	8.574	41	42150	29.13 ug/L	90
54) 2-Chloroethyl vinyl ether	8.985	63	194155	123.81 ug/L	87
55) cis-1,3-Dichloropropene	9.091	75	109675	28.09 ug/L	87
58) Toluene	9.338	91	321563	25.85 ug/L	95
59) 2-Nitropropane	9.538	41	54221	140.99 ug/L	92
60) 4-Methyl-2-pentanone	9.655	43	224503	139.92 ug/L	95
61) trans-1,3-Dichloropropene	9.720	75	101447	30.53 ug/L	96
62) Tetrachloroethene	9.743	166	96916	38.95 ug/L	87
63) Ethyl methacrylate	9.825	69	62139	22.71 ug/L	94
64) 1,1,2-Trichloroethane	9.890	83	54374	29.05 ug/L	94
65) Dibromochloromethane	10.084	129	62124	27.41 ug/L	92
66) 1,3-Dichloropropane	10.166	76	100045	25.85 ug/L	98
67) 1,2-Dibromoethane	10.348	107	58427	27.54 ug/L	92
68) 2-hexanone	10.478	43	142739	113.50 ug/L	95
69) 1-Chlorohexane	10.783	91	100317	27.04 ug/L	92
70) Ethylbenzene	10.848	91	379942	28.32 ug/L	98
71) Chlorobenzene	10.848	112	210621	29.33 ug/L	95
72) 1,1,1,2-Tetrachloroethane	10.901	131	68966	27.99 ug/L	96
73) m,p-Xylene	10.983	91	565246	57.37 ug/L	98
74) o-Xylene	11.424	91	285624	27.69 ug/L	98
75) Styrene	11.471	104	218635	28.25 ug/L	97
76) Bromoform	11.529	173	32794	27.83 ug/L	92
77) Isopropylbenzene	11.729	105	377580	29.75 ug/L	100
80) cis-1,4-Dichloro-2-butene	12.076	53	18844	22.30 ug/L	87
81) n-Propylbenzene	12.146	91	442093	28.04 ug/L	97
82) Bromobenzene	12.170	156	76503	26.92 ug/L	87
83) 1,1,2,2-Tetrachloroethane	12.205	83	74476	25.35 ug/L	92
84) 1,3,5-Trimethylbenzene	12.328	105	311989	28.08 ug/L	99
85) 2-Chlorotoluene	12.334	91	295410	27.83 ug/L	95
86) trans-1,4-Dichloro-2-B...	12.387	53	18350	23.62 ug/L	91
87) 1,2,3-Trichloropropane	12.370	110	20339	26.30 ug/L	84
88) Cyclohexanone	12.434	55	7872	104.54 ug/L	94
89) 4-Chlorotoluene	12.505	91	270132	26.23 ug/L	95
90) a-Methyl Styrene	12.669	118	3596	0.63 ug/L #	1
91) tert-Butylbenzene	12.669	91	171038	26.77 ug/L	96

SGS ACCUTEST FA34891

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\070116\
Data File : J0977756.D
Acq On : 1 Jul 2016 1:16 pm
Operator : darshnap
Sample : bs ma Inst : MSVOA6
Misc : MS34294,vj5360,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 01 13:35:11 2016
Quant Method : C:\msdchem\1\methods\MSJ070116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Jul 01 12:56:34 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
92) 1,2,4-Trimethylbenzene	12.740	105	308249	27.04	ug/L	98
93) Pentachloroethane	12.722	167	29994	18.82	ug/L	86
94) sec-Butylbenzene	12.857	105	413596	29.56	ug/L	100
95) 4-Isopropyltoluene	12.987	119	320869	27.37	ug/L	100
96) 1,3-Dichlorobenzene	13.122	146	147932	26.64	ug/L	96
97) 1,4-Dichlorobenzene	13.204	146	156501	26.92	ug/L	88
98) n-Butylbenzene	13.415	92	193871	29.26	ug/L	96
99) Benzyl Chloride	13.433	126	21967	24.16	ug/L #	56
100) 1,2-Dichlorobenzene	13.633	146	148677	28.47	ug/L	93
101) 1,2-Dibromo-3-Chloropr...	14.367	75	10457	27.57	ug/L	88
102) Hexachlorobutadiene	14.920	225	50812	32.02	ug/L	83
103) 1,2,4-Trichlorobenzene	14.961	180	91032	26.73	ug/L	93
104) Naphthalene	15.243	128	183043	30.62	ug/L	95
105) 1,2,3-Trichlorobenzene	15.413	180	81549	28.20	ug/L	95
107) Ethanol	4.261	45	11679m	495.16	ug/L	
108) acrolein	4.743	56	64573	135.67	ug/L	87
109) Tert Butyl Alcohol	5.360	59	45170	215.79	ug/L	90
110) tert Amyl alcohol	7.563	59	31894	190.74	ug/L	84
111) Isobutyl alcohol	7.440	42	29120	378.90	ug/L #	87
112) 1,4-Dioxane	8.662	88	10749	487.50	ug/L #	69
113) 3,3-Dimethyl-1-butanol	10.419	57	222382	1319.53	ug/L	93

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

7.3.2

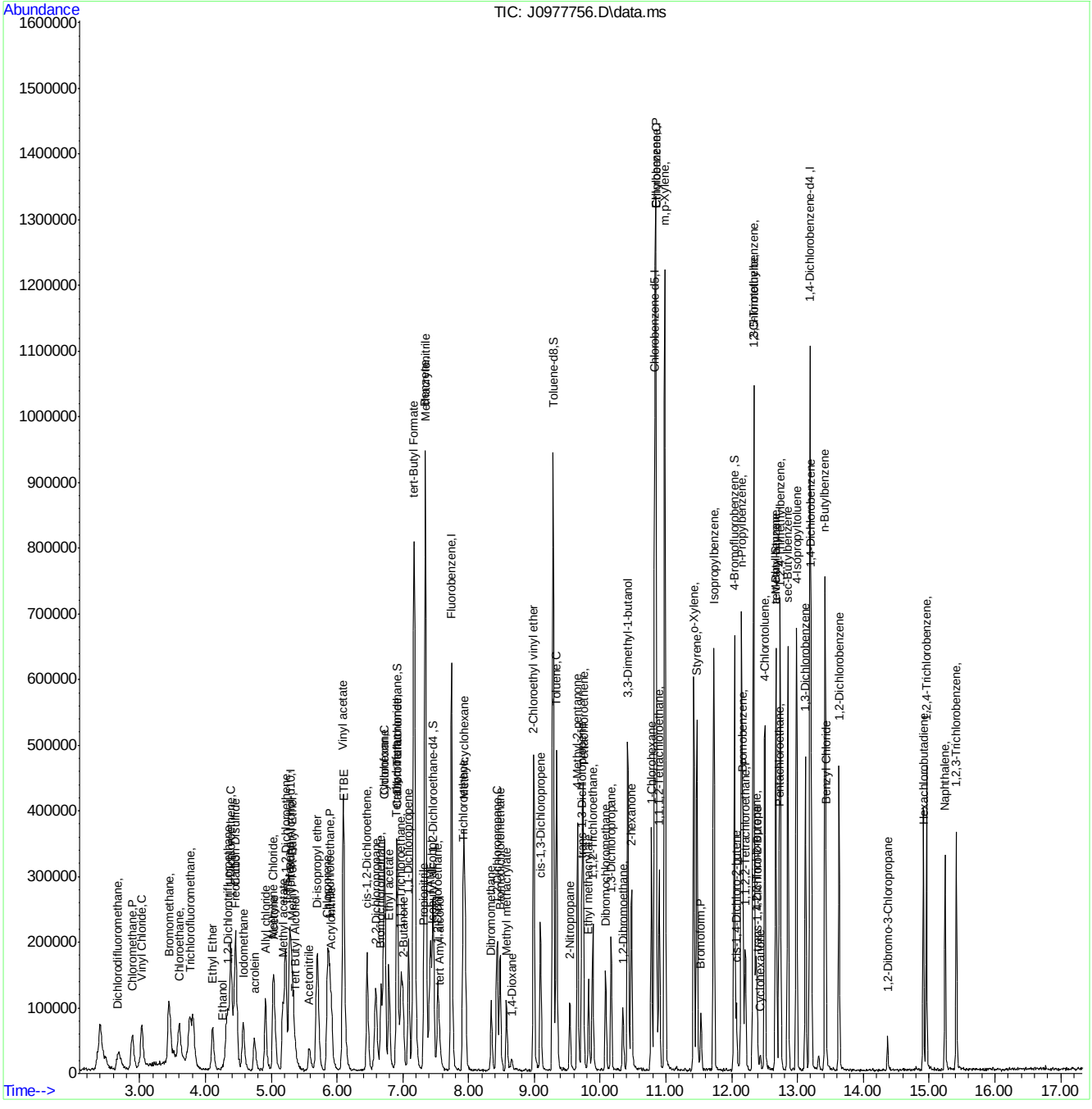
7

SGS ACCUTEST FA34891

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\070116\
Data File : J0977756.D
Acq On : 1 Jul 2016 1:16 pm
Operator : darshnap
Sample : bs ma Inst : MSVOA6
Misc : MS34294,vj5360,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 01 13:35:11 2016
Quant Method : C:\msdchem\1\methods\MSJ070116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Jul 01 12:56:34 2016
Response via : Initial Calibration



SGS ACCUTEST FA34891

Manual Integration Approval Summary

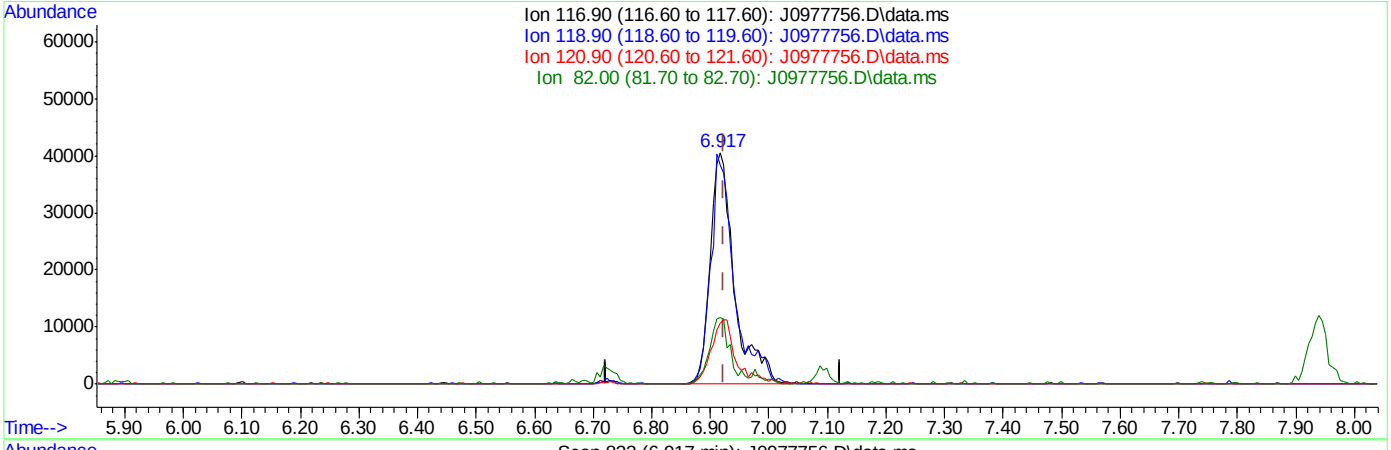
Sample Number:	VJ5360-BS	**Method:**	SW846 8260C
Lab FileID:	J0977756.D	**Analyst approved:**	07/05/16 10:45 Darshna Patel
Injection Time:	07/01/16 13:16	**Supervisor approved:**	07/05/16 13:50 Juan Garcia

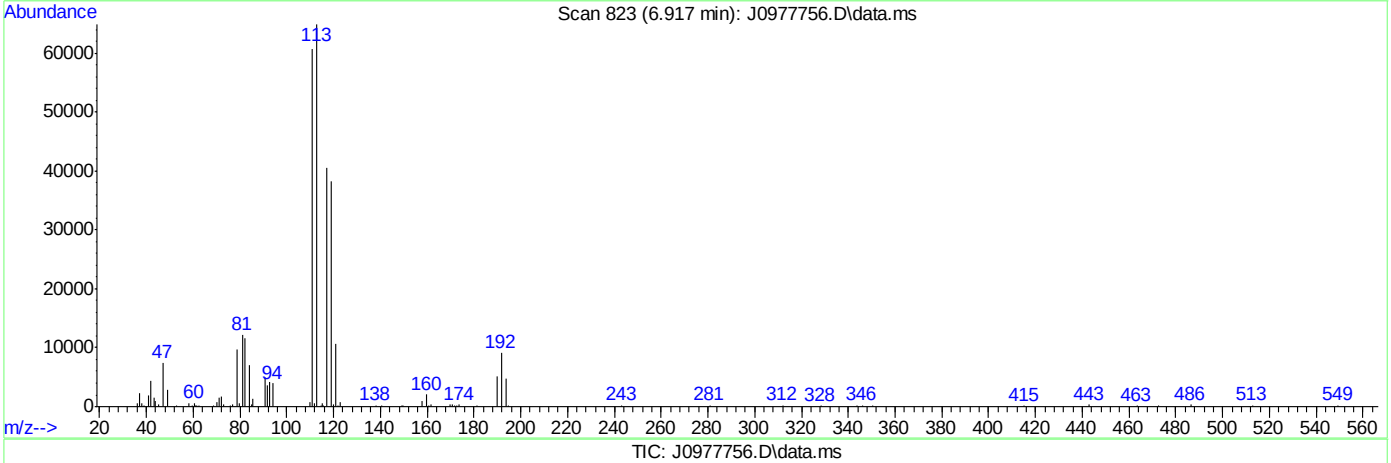
Parameter	CAS	Sig#	R.T. (min.)	Reason
Ethyl Alcohol	64-17-5		4.26	Poor instrument integration
Carbon Tetrachloride	56-23-5		6.92	Overlapping peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\070116\
Data File : J0977756.D
Acq On : 1 Jul 2016 1:16 pm
Operator : darshnap
Sample : bs Inst : MSVOA6
Misc : MS34274,vj5359,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 01 13:34:43 2016
Quant Method : C:\msdchem\1\methods\MSJ070116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Jul 01 12:56:34 2016
Response via : Initial Calibration





(37) Carbon Tetrachloride ( )

6.917min (-0.006) 33.24ug/L

response 117472

Ion	Exp%	Act%
116.90	100	100
118.90	94.30	94.48
120.90	30.90	26.49
82.00	27.90	28.63

SGS ACCUTEST FA34891

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\070116\
Data File : J0977756.D
Acq On    :  1 Jul 2016   1:16 pm
Operator  : darshnap
Sample    : bs                                    Inst     : MSVOA6
Misc      : MS34274,vj5359,,,,,
ALS Vial  : 1   Sample Multiplier: 1

Quant Time: Jul 01 13:34:43 2016
Quant Method : C:\msdchem\1\methods\MSJ070116a.M
Quant Title  : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Jul 01 12:56:34 2016
Response via : Initial Calibration
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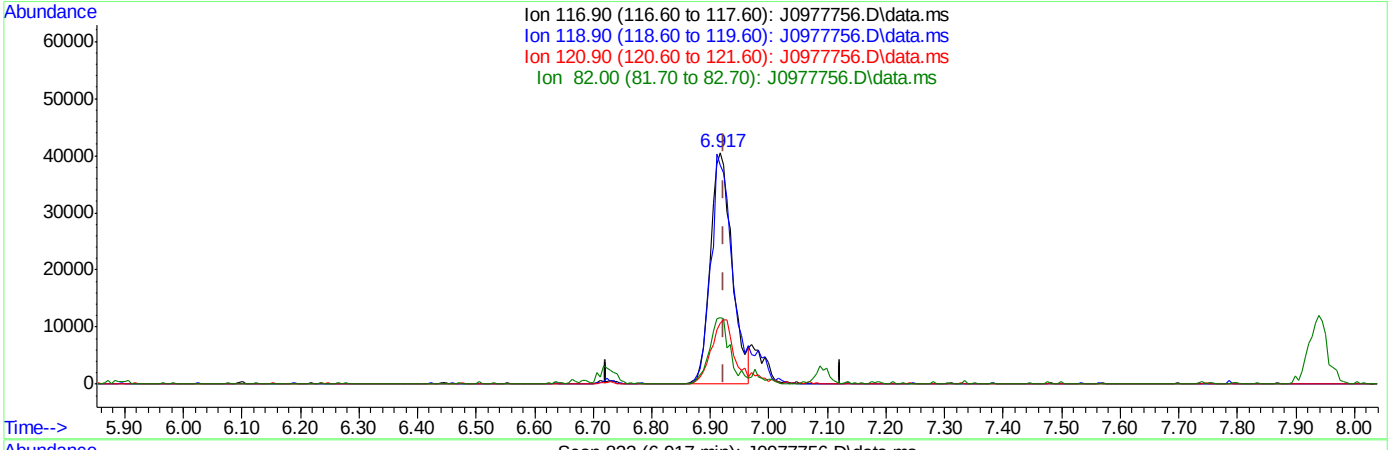
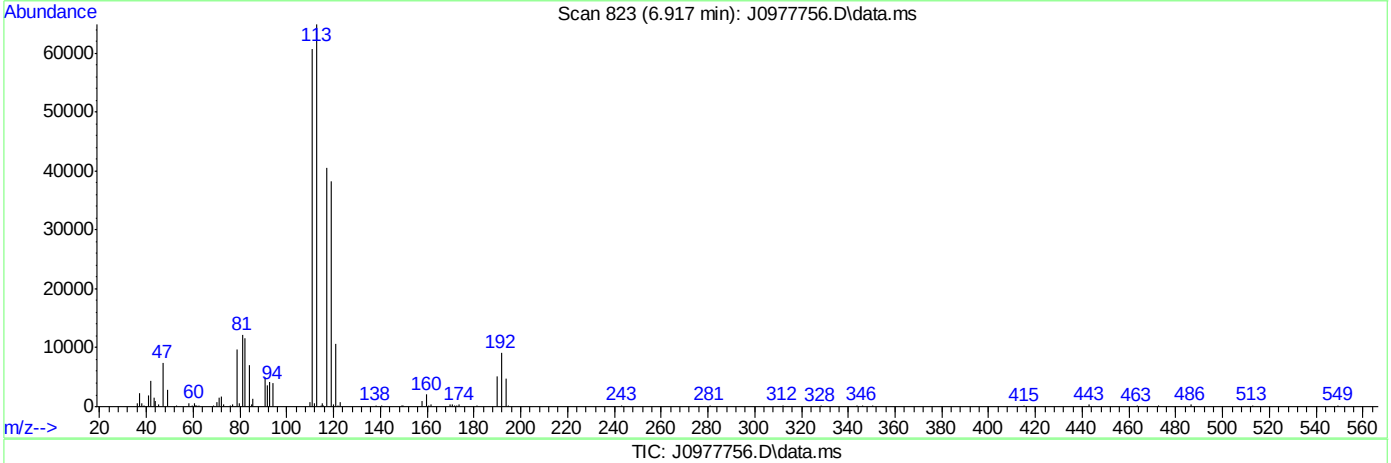




(37) Carbon Tetrachloride ( )

6.917min (-0.006) 29.96ug/L m

response 105127

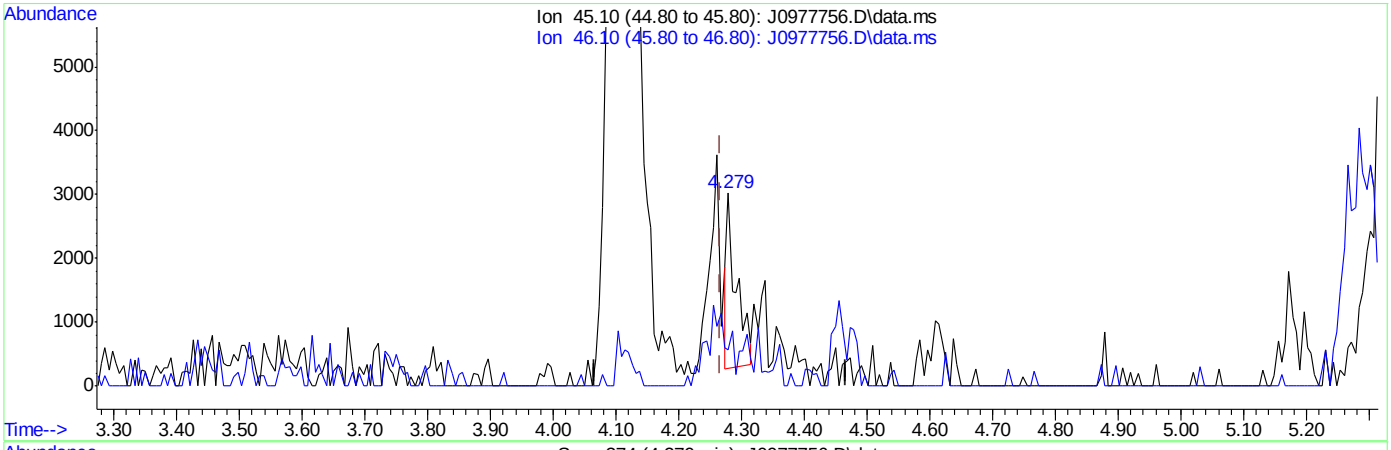
Ion	Exp%	Act%
116.90	100	100
118.90	94.30	94.48
120.90	30.90	26.49
82.00	27.90	28.63

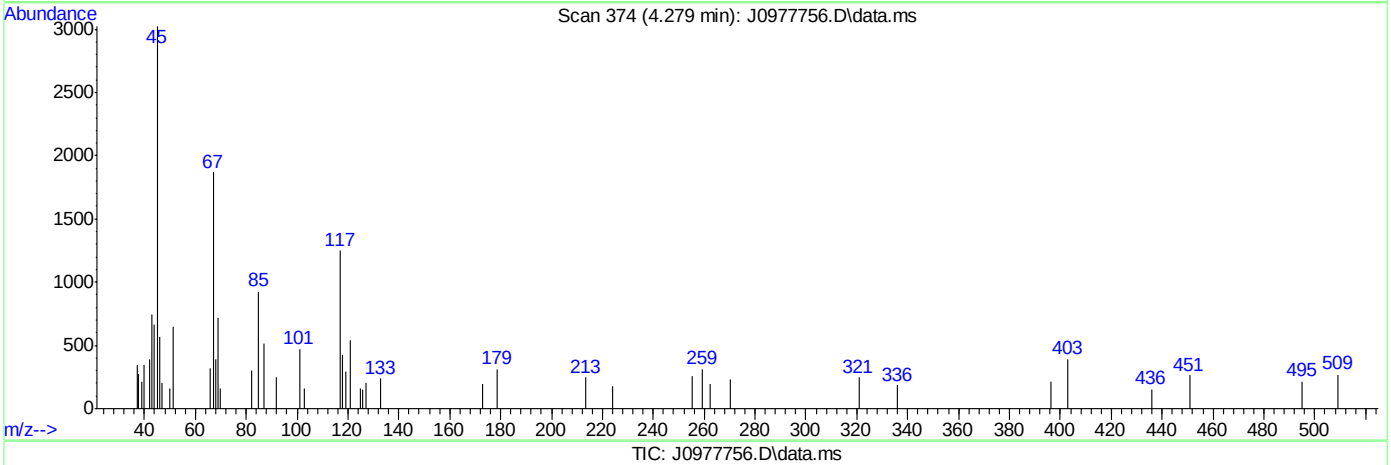
SGS ACCUTEST FA34891

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\070116\
Data File : J0977756.D
Acq On : 1 Jul 2016 1:16 pm
Operator : darshnap
Sample : bs Inst : MSVOA6
Misc : MS34274,vj5359,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 01 13:34:43 2016
Quant Method : C:\msdchem\1\methods\MSJ070116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Jul 01 12:56:34 2016
Response via : Initial Calibration





TIC: J0977756.D\data.ms

(107) Ethanol

4.279min (+0.012) 123.25ug/L

response 2907

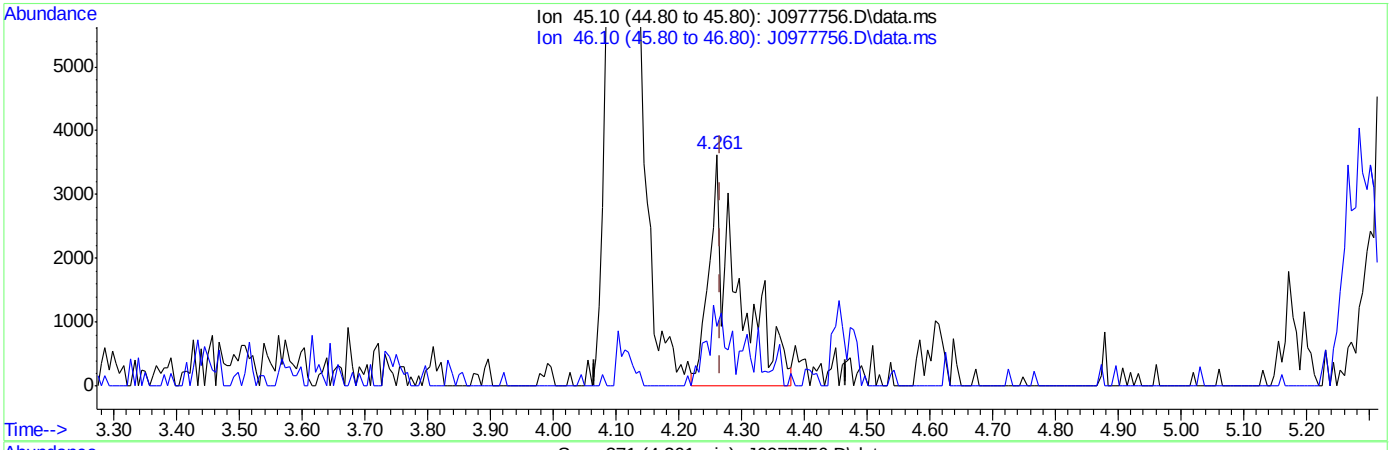
Ion	Exp%	Act%
45.10	100	100
46.10	24.20	5.43
0.00	0.00	0.00
0.00	0.00	0.00

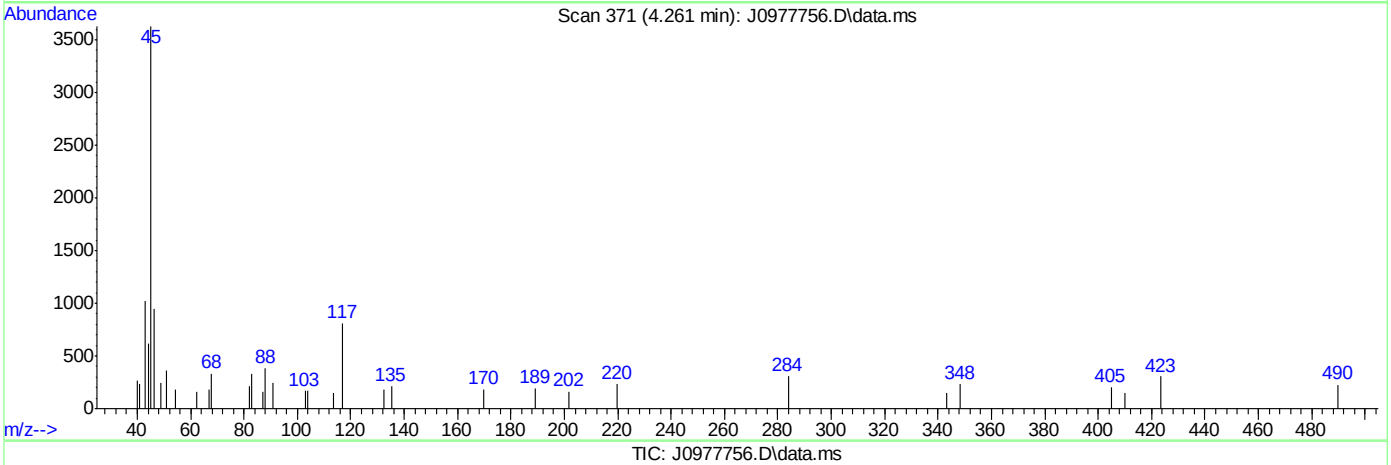
SGS ACCUTEST FA34891

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\070116\
Data File : J0977756.D
Acq On : 1 Jul 2016 1:16 pm
Operator : darshnap
Sample : bs Inst : MSVOA6
Misc : MS34274,vj5359,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 01 13:34:43 2016
Quant Method : C:\msdchem\1\methods\MSJ070116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Jul 01 12:56:34 2016
Response via : Initial Calibration





TIC: J0977756.D\data.ms

(107) Ethanol

4.261min (-0.006) 495.16ug/L m

response 11679

Ion	Exp%	Act%
45.10	100	100
46.10	24.20	25.96
0.00	0.00	0.00
0.00	0.00	0.00

SGS ACCUTEST FA34891

Manual Integrations APPROVED (compounds with "m" flag)
Juan Garcia
07/05/16 13:51

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\063016\
Data File : J0977739.D
Acq On : 30 Jun 2016 6:34 pm
Operator : darshnap
Sample : fa34891-2ms ma Inst : MSVOA6
Misc : MS34294,vj5358,,,,,5
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Jul 01 08:01:50 2016
Quant Method : C:\msdchem\1\methods\MSJ062116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 21 11:35:53 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.745	96	414356	50.00	ug/L	0.00
56) Chlorobenzene-d5	10.836	117	255916	50.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	13.186	152	124696	50.00	ug/L	0.00
106) Tert Butyl Alcohol-d10	5.289	65	27009m	250.00	ug/L	0.00
System Monitoring Compounds						
36) Dibromofluoromethane	6.911	113	100105	45.90	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 91.80%			
46) 1,2-Dichloroethane-d4	7.463	65	145255	45.64	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 91.28%			
57) Toluene-d8	9.285	98	346261	51.19	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 102.38%			
79) 4-Bromofluorobenzene	12.041	95	120227	50.19	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 100.38%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.675	85	43364	14.49	ug/L	89
3) Chloromethane	2.886	50	60030	19.88	ug/L	98
4) Vinyl Chloride	3.027	62	63019	21.03	ug/L	96
5) 1,3-Butadiene	3.033	54	1114	0.47	ug/L #	10
6) Bromomethane	3.450	94	59382	23.66	ug/L	87
7) Chloroethane	3.603	64	45999	22.85	ug/L	95
8) Trichlorofluoromethane	3.774	101	128380	25.54	ug/L	98
9) Ethyl Ether	4.114	59	47901	24.31	ug/L #	75
10) 1,2-Dichlorotrifluoroe...	4.349	67	85035	33.63	ug/L	90
11) 1,1-Dichloroethene	4.385	61	107371	28.66	ug/L	88
12) Freon 113	4.455	101	61820	27.22	ug/L #	78
13) Carbon Disulfide	4.467	76	193353	27.88	ug/L	95
14) Iodomethane	4.579	142	87590	24.54	ug/L	88
15) Allyl chloride	4.913	41	74573	23.40	ug/L	88
16) Methylene Chloride	5.037	49	93055	27.97	ug/L	90
17) Acetone	5.054	58	18402	133.51	ug/L #	30
18) Methyl acetate	5.184	74	29061	115.44	ug/L #	88
19) trans-1,2-Dichloroethene	5.219	61	90307	29.18	ug/L	95
20) Hexane	5.295	56	57345	27.70	ug/L #	80
21) Methyl Tert Butyl Ether	5.325	73	138632	20.71	ug/L	87
22) Acetonitrile	5.601	40	21051	203.27	ug/L #	58
23) Di-isopropyl ether	5.707	45	158082	19.68	ug/L	93
24) Chloroprene	5.859	53	79269	18.14	ug/L	93
25) 1,1-Dichloroethane	5.889	63	102765	24.65	ug/L	88
26) Acrylonitrile	5.912	53	68971	114.11	ug/L	92
27) ETBE	6.112	59	161324	19.20	ug/L	95
28) Vinyl acetate	6.094	43	420448	95.15	ug/L	98
29) cis-1,2-Dichloroethene	6.465	96	59611	23.42	ug/L	97
30) 2,2-Dichloropropane	6.588	77	71026	20.16	ug/L	95
31) Bromochloromethane	6.676	128	24185	21.69	ug/L	89
32) Cyclohexane	6.723	56	100872	25.78	ug/L	93
33) Chloroform	6.729	83	107270	22.62	ug/L	91
34) Ethyl acetate	6.794	43	159764	99.41	ug/L	98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\063016\
Data File : J0977739.D
Acq On : 30 Jun 2016 6:34 pm
Operator : darshnap
Sample : fa34891-2ms ma Inst : MSVOA6
Misc : MS34294,vj5358,,,,,5
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Jul 01 08:01:50 2016
Quant Method : C:\msdchem\1\methods\MSJ062116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 21 11:35:53 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
35) Tetrahydrofuran	6.905	42	9778	21.15	ug/L		86
37) Carbon Tetrachloride	6.923	117	83353	24.50	ug/L		90
38) 1,1,1-Trichloroethane	6.976	97	93354	22.33	ug/L		93
39) 2-Butanone	7.017	43	74288	117.27	ug/L		93
40) 1,1-Dichloropropene	7.093	75	77530	25.46	ug/L		87
41) tert-Butyl Formate	7.176	59	119765	84.41	ug/L	#	70
42) Propionitrile	7.322	54	52568	234.51	ug/L		83
43) Methacrylonitrile	7.346	41	214704	210.64	ug/L		94
44) Benzene	7.340	78	224530	26.44	ug/L		90
45) TAME	7.422	73	135958	20.20	ug/L		91
47) 1,2-Dichloroethane	7.534	62	83043	21.46	ug/L		86
48) Trichloroethene	7.928	95	57672	25.05	ug/L		92
49) Methylcyclohexane	7.945	83	98100	24.44	ug/L		87
50) Dibromomethane	8.351	93	35426	27.55	ug/L		78
51) 1,2-Dichloropropane	8.439	63	63252	28.19	ug/L		87
52) Bromodichloromethane	8.480	83	73563	21.33	ug/L		99
53) Methyl methacrylate	8.580	41	29193	18.39	ug/L		84
55) cis-1,3-Dichloropropene	9.097	75	75014	20.16	ug/L		89
58) Toluene	9.338	91	216015	27.03	ug/L		99
59) 2-Nitropropane	9.538	41	37453	82.42	ug/L		96
60) 4-Methyl-2-pentanone	9.655	43	168484	132.85	ug/L		95
61) trans-1,3-Dichloropropene	9.720	75	70653	26.12	ug/L		93
62) Tetrachloroethene	9.737	166	53072	27.02	ug/L		99
63) Ethyl methacrylate	9.825	69	39921	19.92	ug/L	#	79
64) 1,1,2-Trichloroethane	9.890	83	34837	26.45	ug/L		90
65) Dibromochloromethane	10.084	129	36590	19.08	ug/L		97
66) 1,3-Dichloropropane	10.166	76	62905	22.52	ug/L		90
67) 1,2-Dibromoethane	10.342	107	40595	25.84	ug/L		98
68) 2-hexanone	10.478	43	113647	131.83	ug/L		88
69) 1-Chlorohexane	10.783	91	70023	27.45	ug/L		91
70) Ethylbenzene	10.848	91	390708	40.92	ug/L		96
71) Chlorobenzene	10.854	112	135821	26.65	ug/L		94
72) 1,1,1,2-Tetrachloroethane	10.901	131	43906	24.95	ug/L		91
73) m,p-Xylene	10.983	91	771745	104.55	ug/L		96
74) o-Xylene	11.424	91	191644	24.62	ug/L		99
75) Styrene	11.471	104	143464	24.89	ug/L		94
76) Bromoform	11.535	173	15705	14.08	ug/L		96
77) Isopropylbenzene	11.729	105	285272	31.82	ug/L		91
80) cis-1,4-Dichloro-2-butene	12.070	53	10644	17.83	ug/L		86
81) n-Propylbenzene	12.146	91	324011	32.58	ug/L		99
82) Bromobenzene	12.170	156	51087	25.81	ug/L		98
83) 1,1,2,2-Tetrachloroethane	12.205	83	51386	30.28	ug/L		100
84) 1,3,5-Trimethylbenzene	12.328	105	197060	26.67	ug/L		94
85) 2-Chlorotoluene	12.340	91	199489	28.64	ug/L		92
86) trans-1,4-Dichloro-2-B...	12.387	53	10498	17.72	ug/L	#	59
87) 1,2,3-Trichloropropane	12.370	110	13983	27.98	ug/L		92
88) Cyclohexanone	12.434	55	5462	130.49	ug/L		83
89) 4-Chlorotoluene	12.499	91	178022	26.83	ug/L		93
90) a-Methyl Styrene	12.669	118	2880	0.82	ug/L	#	1
91) tert-Butylbenzene	12.669	91	121393	28.23	ug/L		100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\063016\
Data File : J0977739.D
Acq On : 30 Jun 2016 6:34 pm
Operator : darshnap
Sample : fa34891-2ms ma Inst : MSVOA6
Misc : MS34294,vj5358,,,,,5
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Jul 01 08:01:50 2016
Quant Method : C:\msdchem\1\methods\MSJ062116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 21 11:35:53 2016
Response via : Initial Calibration

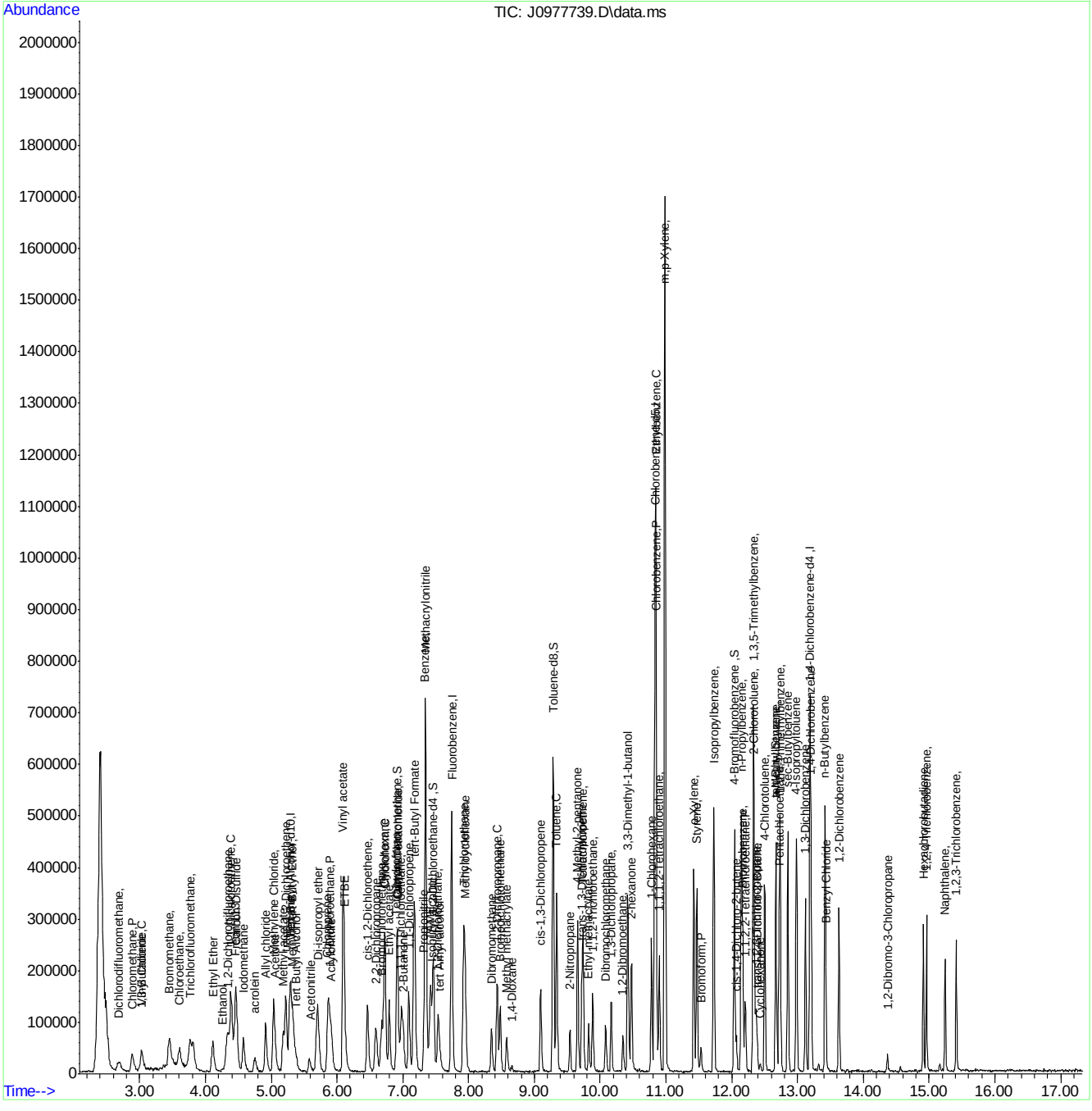
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
92) 1,2,4-Trimethylbenzene	12.740	105	207487	27.80	ug/L	98
93) Pentachloroethane	12.722	167	30810	27.38	ug/L	91
94) sec-Butylbenzene	12.851	105	280315	31.71	ug/L	97
95) 4-Isopropyltoluene	12.981	119	217213	29.02	ug/L	98
96) 1,3-Dichlorobenzene	13.122	146	104689	29.21	ug/L	92
97) 1,4-Dichlorobenzene	13.204	146	98303	26.89	ug/L	94
98) n-Butylbenzene	13.415	92	124765	29.17	ug/L	93
99) Benzyl Chloride	13.433	126	12076	19.42	ug/L #	83
100) 1,2-Dichlorobenzene	13.633	146	97368	29.02	ug/L	96
101) 1,2-Dibromo-3-Chloropr...	14.367	75	6750	22.85	ug/L	86
102) Hexachlorobutadiene	14.914	225	32002	22.07	ug/L	91
103) 1,2,4-Trichlorobenzene	14.961	180	62564	23.27	ug/L	93
104) Naphthalene	15.243	128	127677	32.69	ug/L	92
105) 1,2,3-Trichlorobenzene	15.413	180	49960	25.18	ug/L	96
107) Ethanol	4.255	45	9497m	673.65	ug/L	
108) acrolein	4.755	56	32813	112.75	ug/L	93
109) Tert Butyl Alcohol	5.378	59	49315	319.63	ug/L	74
110) tert Amyl alcohol	7.557	59	24299	201.66	ug/L	84
111) Isobutyl alcohol	7.440	42	25728	550.81	ug/L #	77
112) 1,4-Dioxane	8.662	88	5756	415.92	ug/L	81
113) 3,3-Dimethyl-1-butanol	10.419	57	138644	1275.58	ug/L	94

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\063016\
Data File : J0977739.D
Acq On : 30 Jun 2016 6:34 pm
Operator : darshnap
Sample : fa34891-2ms ma Inst : MSVOA6
Misc : MS34294,vj5358,,,,,5
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Jul 01 08:01:50 2016
Quant Method : C:\msdchem\1\methods\MSJ062116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 21 11:35:53 2016
Response via : Initial Calibration



MSJ062116a.M Fri Jul 01 08:05:00 2016 Page: 4

Manual Integration Approval Summary

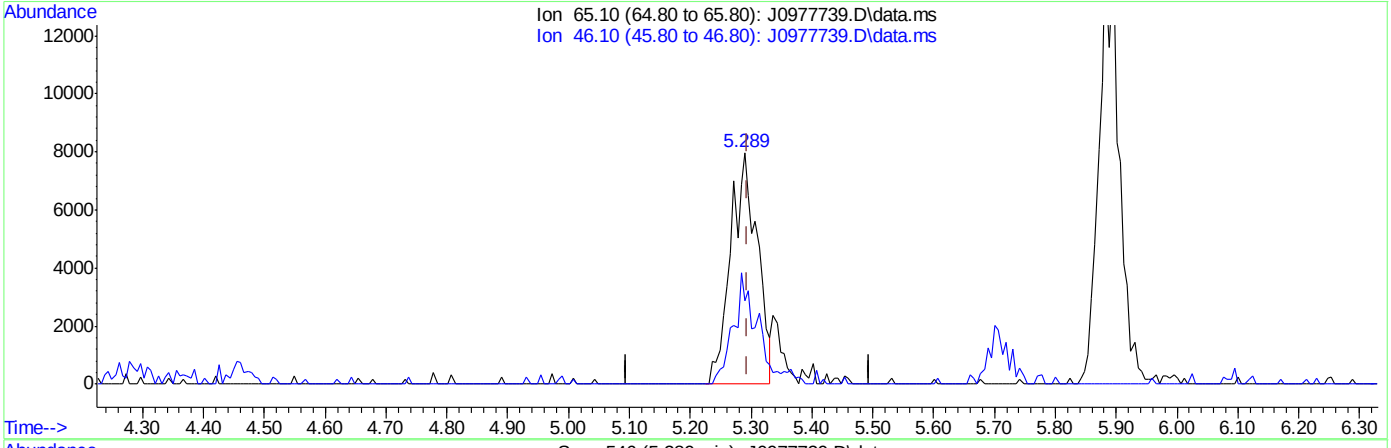
Sample Number:	FA34891-2MS	**Method:**	SW846 8260C
Lab FileID:	J0977739.D	**Analyst approved:**	07/01/16 10:25 Darshna Patel
Injection Time:	06/30/16 18:34	**Supervisor approved:**	07/05/16 13:51 Juan Garcia

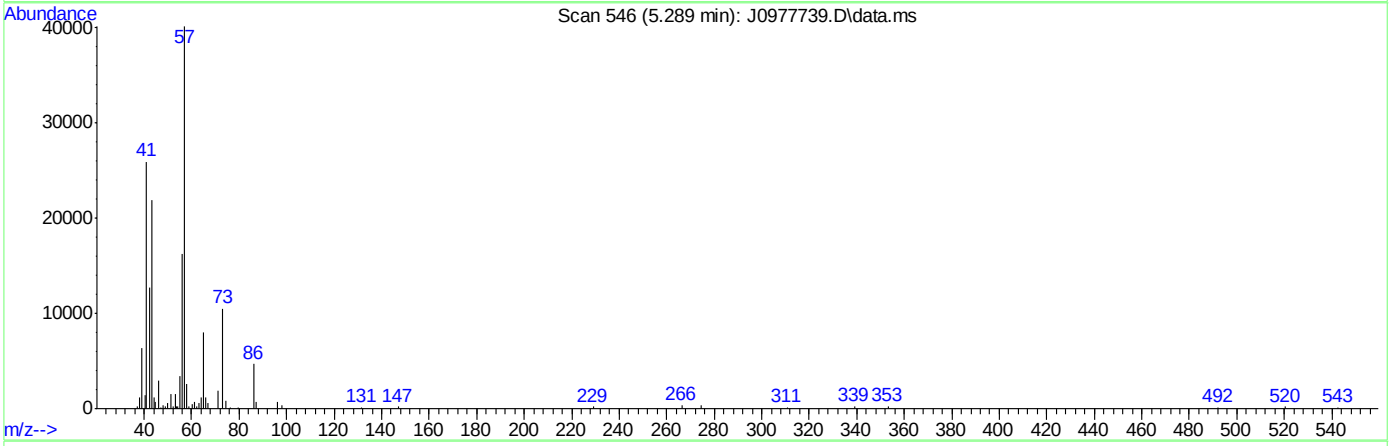
Parameter	CAS	Sig#	R.T. (min.)	Reason
Ethyl Alcohol	64-17-5		4.26	Poor instrument integration
Tert Butyl Alcohol-D10			5.29	Poor instrument integration

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\063016\
Data File : J0977739.D
Acq On : 30 Jun 2016 6:34 pm
Operator : darshnap
Sample : fa34891-2ms ma Inst : MSVOA6
Misc : MS34294,vj5358,,,,,5
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Jul 01 07:53:17 2016
Quant Method : C:\msdchem\1\methods\MSJ062116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 21 11:35:53 2016
Response via : Initial Calibration





TIC: J0977739.D\data.ms

(106) Tert Butyl Alcohol-d10 (I)

5.289min (-0.006) 250.00ug/L

response 24254

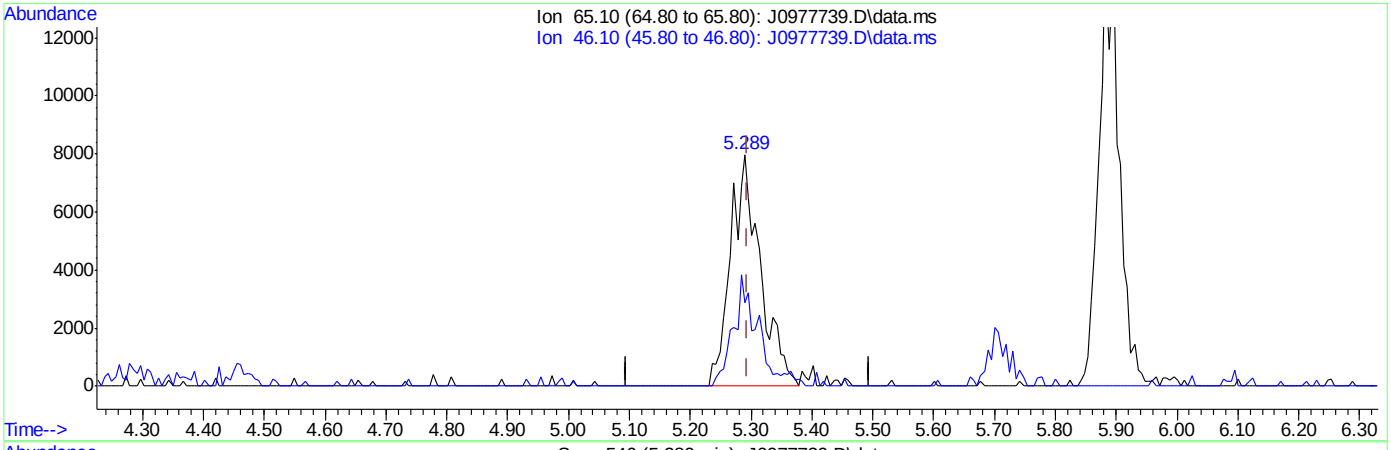
Ion	Exp%	Act%
65.10	100	100
46.10	20.40	36.16
0.00	0.00	0.00
0.00	0.00	0.00

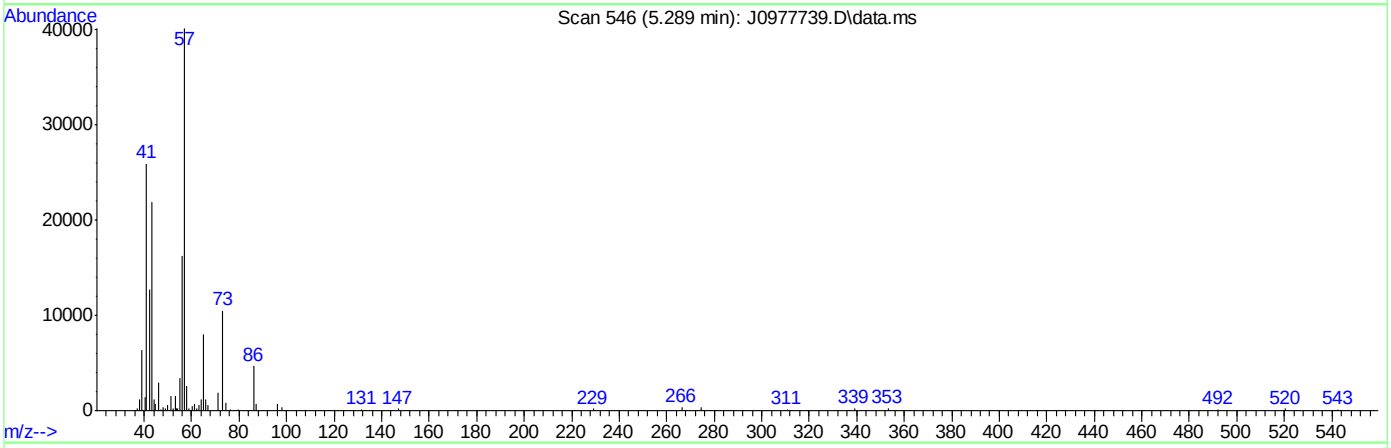
SGS ACCUTEST FA34891

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\063016\
Data File : J0977739.D
Acq On : 30 Jun 2016 6:34 pm
Operator : darshnap
Sample : fa34891-2ms ma Inst : MSVOA6
Misc : MS34294,vj5358,,,,,5
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Jul 01 07:53:17 2016
Quant Method : C:\msdchem\1\methods\MSJ062116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 21 11:35:53 2016
Response via : Initial Calibration





TIC: J0977739.D\data.ms

(106) Tert Butyl Alcohol-d10 (I)

5.289min (-0.006) 250.00ug/L m

response 27009

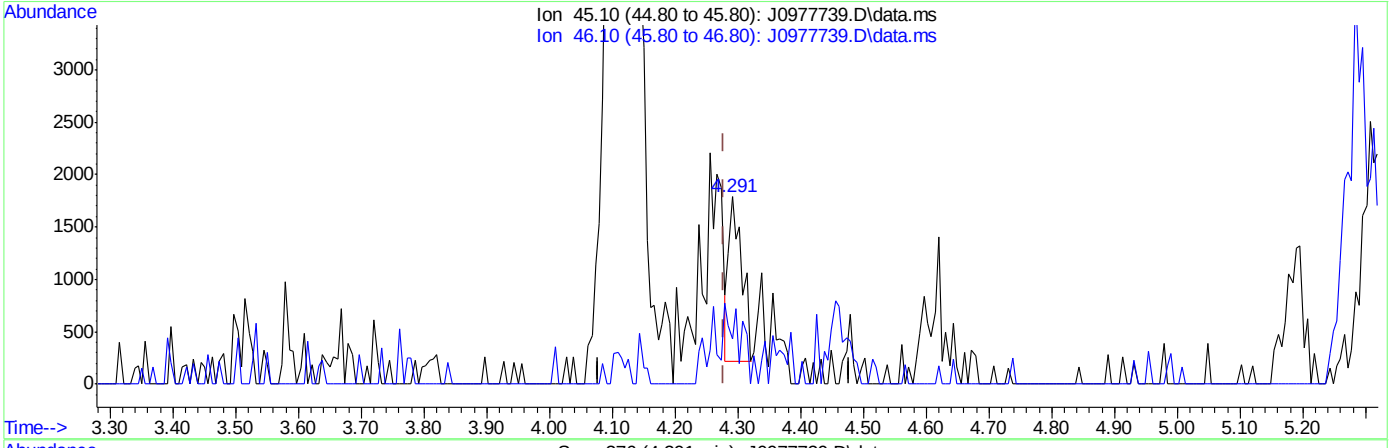
Ion	Exp%	Act%
65.10	100	100
46.10	20.40	36.16
0.00	0.00	0.00
0.00	0.00	0.00

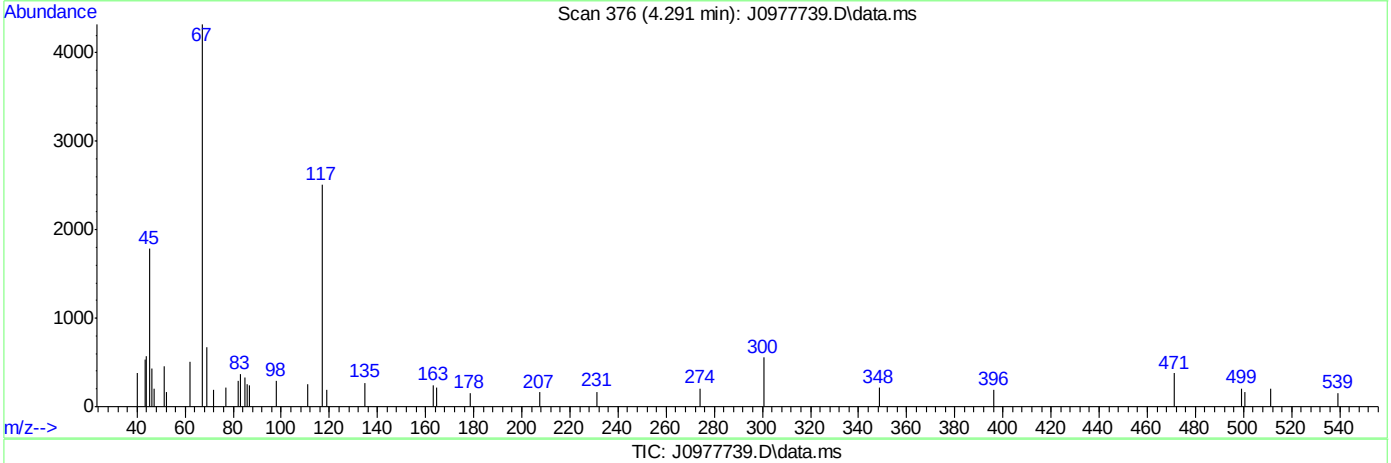
SGS ACCUTEST FA34891

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\063016\
Data File : J0977739.D
Acq On : 30 Jun 2016 6:34 pm
Operator : darshnap
Sample : fa34891-2ms ma Inst : MSVOA6
Misc : MS34294,vj5358,,,,,5
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Jul 01 07:53:17 2016
Quant Method : C:\msdchem\1\methods\MSJ062116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 21 11:35:53 2016
Response via : Initial Calibration





TIC: J0977739.D\data.ms

(107) Ethanol

4.291min (+0.012) 163.71ug/L

response 2308

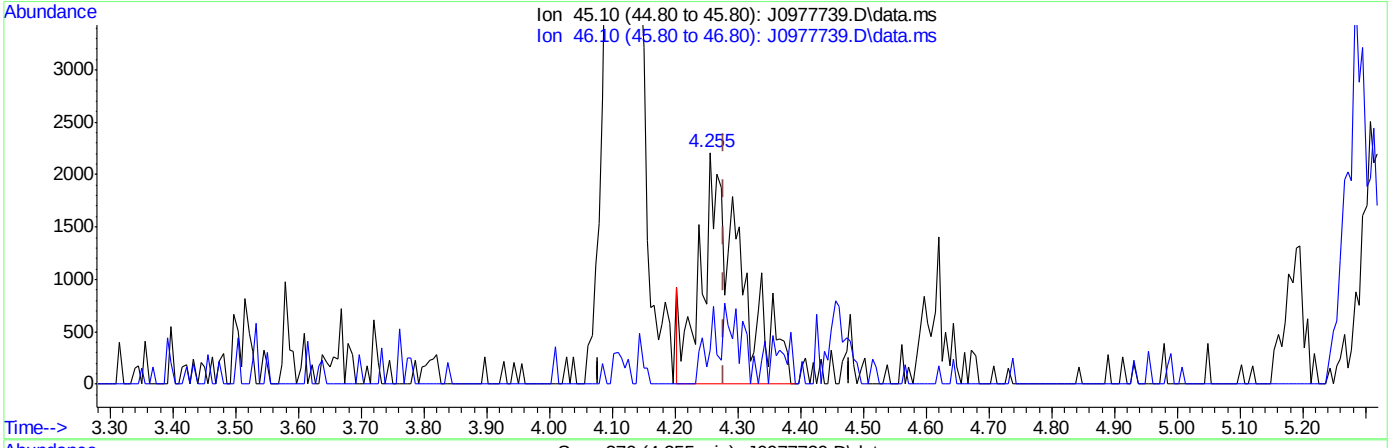
Ion	Exp%	Act%
45.10	100	100
46.10	23.90	27.26
0.00	0.00	0.00
0.00	0.00	0.00

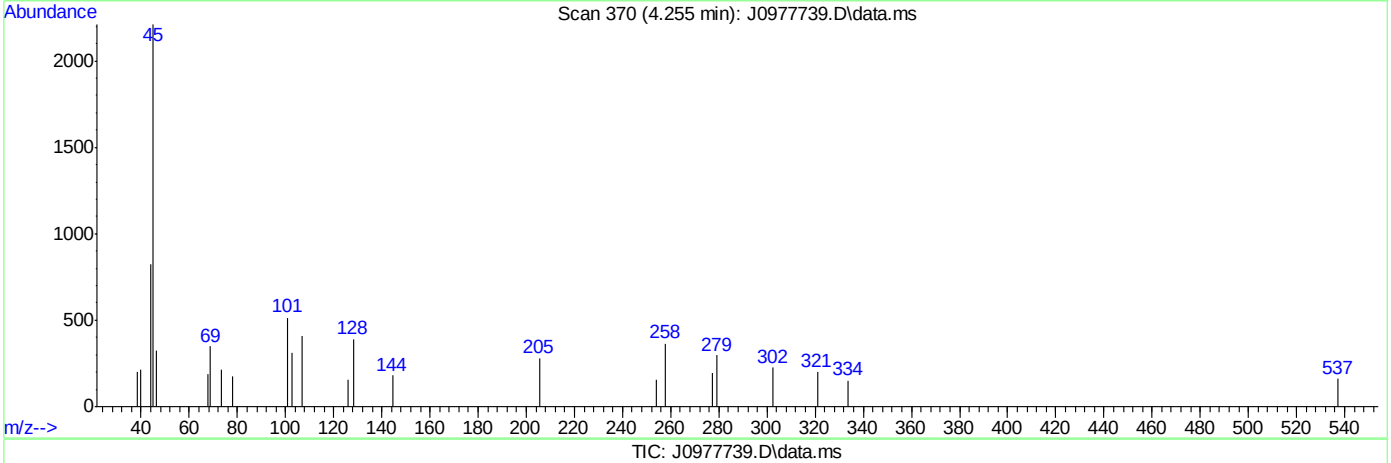
SGS ACCUTEST FA34891

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\063016\
Data File : J0977739.D
Acq On : 30 Jun 2016 6:34 pm
Operator : darshnap
Sample : fa34891-2ms ma Inst : MSVOA6
Misc : MS34294,vj5358,,,,,5
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Jul 01 07:53:17 2016
Quant Method : C:\msdchem\1\methods\MSJ062116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 21 11:35:53 2016
Response via : Initial Calibration





TIC: J0977739.D\data.ms

(107) Ethanol

4.255min (-0.023) 673.65ug/L m

response 9497

Ion	Exp%	Act%
45.10	100	100
46.10	23.90	14.74
0.00	0.00	0.00
0.00	0.00	0.00

SGS ACCUTEST FA34891

Manual Integrations APPROVED (compounds with "m" flag)
Juan Garcia
07/05/16 13:51

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\063016\
Data File : J0977740.D
Acq On : 30 Jun 2016 6:57 pm
Operator : darshnap
Sample : fa34891-2msd ma Inst : MSVOA6
Misc : MS34294,vj5358,,,,,5
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Jul 01 08:02:31 2016
Quant Method : C:\msdchem\1\methods\MSJ062116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 21 11:35:53 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.740	96	390934	50.00	ug/L	0.00
56) Chlorobenzene-d5	10.830	117	280232	50.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	13.186	152	145701	50.00	ug/L	0.00
106) Tert Butyl Alcohol-d10	5.284	65	26895	250.00	ug/L	#-0.01
System Monitoring Compounds						
36) Dibromofluoromethane	6.911	113	103423	50.27	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 100.54%			
46) 1,2-Dichloroethane-d4	7.464	65	141044	46.97	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 93.94%			
57) Toluene-d8	9.285	98	396090	53.47	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 106.94%			
79) 4-Bromofluorobenzene	12.041	95	143622	51.31	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 102.62%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.681	85	41277	14.62	ug/L	82
3) Chloromethane	2.887	50	52651	18.45	ug/L	91
4) Vinyl Chloride	3.022	62	61976	21.96	ug/L	98
5) 1,3-Butadiene	3.010	54	6616	3.00	ug/L #	69
6) Bromomethane	3.445	94	61028	25.89	ug/L	97
7) Chloroethane	3.592	64	47944	25.50	ug/L	91
8) Trichlorofluoromethane	3.756	101	118828	25.04	ug/L	89
9) Ethyl Ether	4.103	59	43717	23.52	ug/L	84
10) 1,2-Dichlorotrifluoroe...	4.338	67	73641	30.87	ug/L	87
11) 1,1-Dichloroethene	4.385	61	94451	26.64	ug/L	92
12) Freon 113	4.444	101	50374	23.39	ug/L	94
13) Carbon Disulfide	4.461	76	145600	22.25	ug/L	93
14) Iodomethane	4.573	142	75206	22.34	ug/L	98
15) Allyl chloride	4.914	41	55561	18.48	ug/L	88
16) Methylene Chloride	5.031	49	78243	24.92	ug/L	94
17) Acetone	5.061	58	14821	113.97	ug/L #	65
18) Methyl acetate	5.178	74	27267	114.80	ug/L #	91
19) trans-1,2-Dichloroethene	5.213	61	82317	28.19	ug/L	93
20) Hexane	5.284	56	56016	28.67	ug/L	93
21) Methyl Tert Butyl Ether	5.325	73	136348	21.59	ug/L	93
22) Acetonitrile	5.578	40	18980	194.19	ug/L	87
23) Di-isopropyl ether	5.701	45	165617	21.86	ug/L	99
24) Chloroprene	5.860	53	84325	20.51	ug/L	91
25) 1,1-Dichloroethane	5.883	63	115642	29.41	ug/L	92
26) Acrylonitrile	5.912	53	64590	113.25	ug/L	92
27) ETBE	6.100	59	174314	21.99	ug/L	90
28) Vinyl acetate	6.095	43	457413	109.72	ug/L	98
29) cis-1,2-Dichloroethene	6.459	96	63816	26.57	ug/L	87
30) 2,2-Dichloropropane	6.594	77	66948	20.14	ug/L	89
31) Bromochloromethane	6.670	128	24188	22.99	ug/L #	77
32) Cyclohexane	6.717	56	100838	27.31	ug/L	95
33) Chloroform	6.723	83	115080	25.79	ug/L	97
34) Ethyl acetate	6.794	43	170665	112.56	ug/L	100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\063016\
Data File : J0977740.D
Acq On : 30 Jun 2016 6:57 pm
Operator : darshnap
Sample : fa34891-2msd ma Inst : MSVOA6
Misc : MS34294,vj5358,,,,,5
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Jul 01 08:02:31 2016
Quant Method : C:\msdchem\1\methods\MSJ062116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 21 11:35:53 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
35) Tetrahydrofuran	6.911	42	11411	26.16 ug/L #	73
37) Carbon Tetrachloride	6.917	117	78527m	24.46 ug/L	
38) 1,1,1-Trichloroethane	6.982	97	97317	24.67 ug/L	98
39) 2-Butanone	7.005	43	77660	129.94 ug/L	72
40) 1,1-Dichloropropene	7.093	75	76825	26.73 ug/L	94
41) tert-Butyl Formate	7.176	59	119765	89.43 ug/L #	64
42) Propionitrile	7.317	54	58900	278.50 ug/L	93
43) Methacrylonitrile	7.340	41	244464	254.20 ug/L	94
44) Benzene	7.340	78	252836	31.62 ug/L	95
45) TAME	7.417	73	141570	22.30 ug/L	89
47) 1,2-Dichloroethane	7.534	62	89627	24.62 ug/L	88
48) Trichloroethene	7.922	95	60603	27.91 ug/L	91
49) Methylcyclohexane	7.945	83	98707	26.07 ug/L	91
50) Dibromomethane	8.345	93	36021	29.65 ug/L	81
51) 1,2-Dichloropropane	8.433	63	56991	26.92 ug/L	90
52) Bromodichloromethane	8.480	83	72616	22.32 ug/L	96
53) Methyl methacrylate	8.580	41	32794	21.91 ug/L	80
55) cis-1,3-Dichloropropene	9.097	75	74184	21.13 ug/L	94
58) Toluene	9.338	91	240120	27.45 ug/L	98
59) 2-Nitropropane	9.538	41	44336	89.10 ug/L	85
60) 4-Methyl-2-pentanone	9.655	43	188693	135.87 ug/L	97
61) trans-1,3-Dichloropropene	9.720	75	68597	23.16 ug/L	87
62) Tetrachloroethene	9.743	166	51773	24.07 ug/L	95
63) Ethyl methacrylate	9.826	69	42909	19.55 ug/L	88
64) 1,1,2-Trichloroethane	9.890	83	38982	27.05 ug/L	88
65) Dibromochloromethane	10.084	129	42165	20.08 ug/L	88
66) 1,3-Dichloropropane	10.172	76	83618	27.40 ug/L	89
67) 1,2-Dibromoethane	10.349	107	45103	26.22 ug/L	92
68) 2-hexanone	10.472	43	128615	136.24 ug/L	98
69) 1-Chlorohexane	10.777	91	71287	25.52 ug/L	93
70) Ethylbenzene	10.848	91	435004	41.60 ug/L	100
71) Chlorobenzene	10.848	112	151598	27.18 ug/L	90
72) 1,1,1,2-Tetrachloroethane	10.901	131	47881	24.85 ug/L	92
73) m,p-Xylene	10.983	91	856444	105.96 ug/L	97
74) o-Xylene	11.424	91	231556	27.22 ug/L	99
75) Styrene	11.471	104	168871	26.75 ug/L	92
76) Bromoform	11.535	173	19931	16.32 ug/L	88
77) Isopropylbenzene	11.729	105	312296	31.82 ug/L	89
80) cis-1,4-Dichloro-2-butene	12.070	53	13102	18.75 ug/L #	75
81) n-Propylbenzene	12.146	91	382399	32.91 ug/L	96
82) Bromobenzene	12.170	156	61615	26.66 ug/L	87
83) 1,1,2,2-Tetrachloroethane	12.205	83	60854	30.69 ug/L	89
84) 1,3,5-Trimethylbenzene	12.329	105	245895	28.48 ug/L	98
85) 2-Chlorotoluene	12.334	91	245976	30.22 ug/L	95
86) trans-1,4-Dichloro-2-B...	12.381	53	13310	19.27 ug/L #	83
87) 1,2,3-Trichloropropane	12.370	110	17047	29.19 ug/L	91
88) Cyclohexanone	12.434	55	6787	138.68 ug/L	94
89) 4-Chlorotoluene	12.505	91	216405	27.96 ug/L	97
90) a-Methyl Styrene	12.669	118	2812	0.68 ug/L #	1
91) tert-Butylbenzene	12.669	91	146813	29.21 ug/L	96

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\063016\
Data File : J0977740.D
Acq On : 30 Jun 2016 6:57 pm
Operator : darshnap
Sample : fa34891-2msd ma Inst : MSVOA6
Misc : MS34294,vj5358,,,,,5
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Jul 01 08:02:31 2016
Quant Method : C:\msdchem\1\methods\MSJ062116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 21 11:35:53 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
92) 1,2,4-Trimethylbenzene	12.740	105	247845	28.42	ug/L	93
93) Pentachloroethane	12.722	167	34277	26.07	ug/L	97
94) sec-Butylbenzene	12.852	105	323100	31.28	ug/L	98
95) 4-Isopropyltoluene	12.987	119	260008	29.73	ug/L	99
96) 1,3-Dichlorobenzene	13.122	146	126257	30.18	ug/L	90
97) 1,4-Dichlorobenzene	13.204	146	124310	29.18	ug/L	96
98) n-Butylbenzene	13.416	92	152991	30.62	ug/L	88
99) Benzyl Chloride	13.433	126	12196	16.78	ug/L #	69
100) 1,2-Dichlorobenzene	13.627	146	117380	29.94	ug/L	95
101) 1,2-Dibromo-3-Chloropr...	14.362	75	8132	23.56	ug/L	82
102) Hexachlorobutadiene	14.914	225	37401	22.08	ug/L	88
103) 1,2,4-Trichlorobenzene	14.961	180	73246	23.32	ug/L	96
104) Naphthalene	15.243	128	146203	32.10	ug/L	98
105) 1,2,3-Trichlorobenzene	15.413	180	60631	26.11	ug/L	94
107) Ethanol	4.273	45	7792m	555.06	ug/L	
108) acrolein	4.743	56	34524	119.23	ug/L	90
109) Tert Butyl Alcohol	5.360	59	52719	343.29	ug/L	85
110) tert Amyl alcohol	7.558	59	25707	214.25	ug/L #	70
111) Isobutyl alcohol	7.434	42	23870	512.87	ug/L #	86
112) 1,4-Dioxane	8.650	88	9945	726.23	ug/L	95
113) 3,3-Dimethyl-1-butanol	10.419	57	184113	1677.73	ug/L	86

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

7.4.2

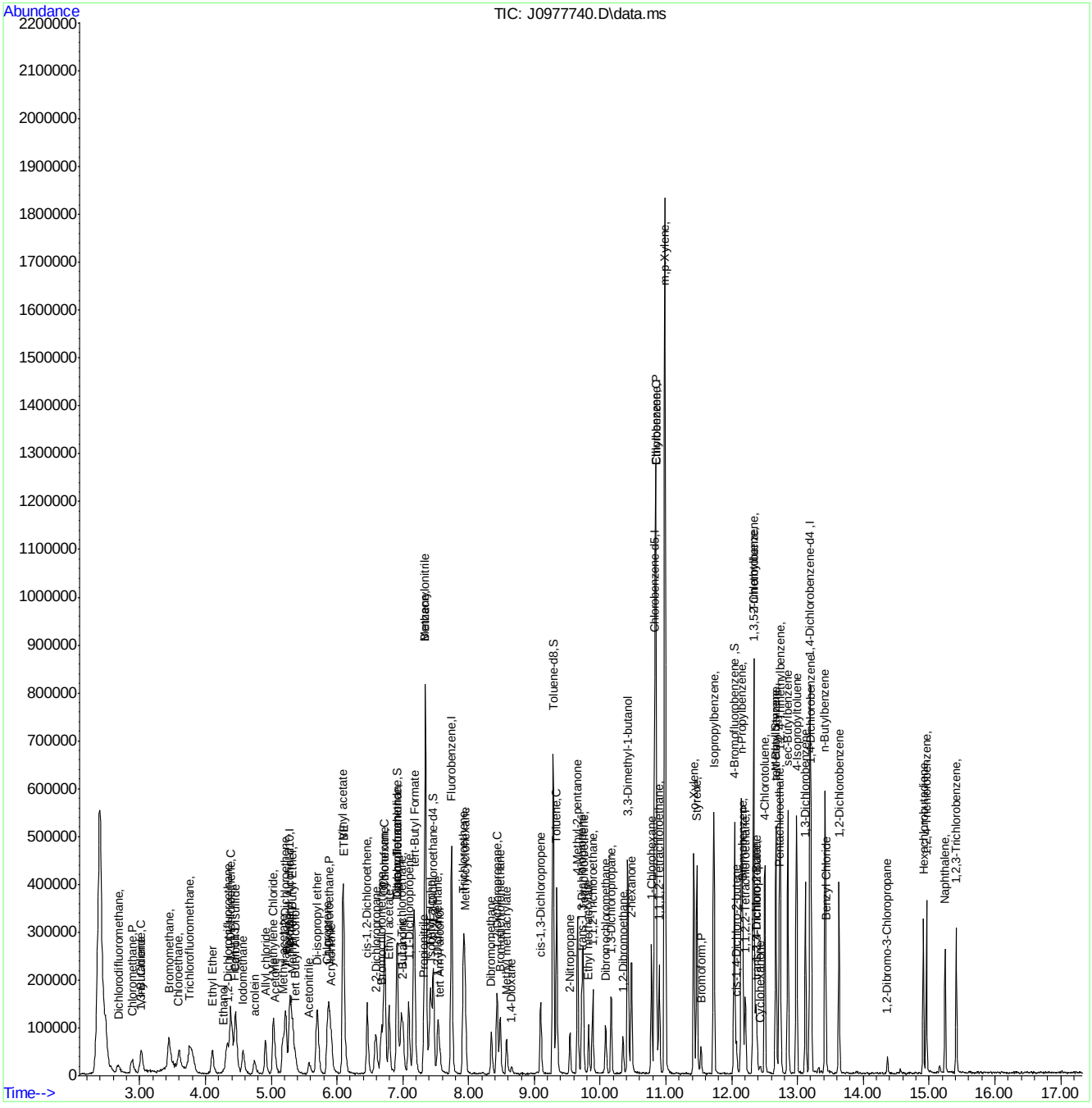
7

SGS ACCUTEST FA34891

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\063016\
Data File : J0977740.D
Acq On : 30 Jun 2016 6:57 pm
Operator : darshnap
Sample : fa34891-2msd ma Inst : MSVOA6
Misc : MS34294,vj5358,,,,,5
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Jul 01 08:02:31 2016
Quant Method : C:\msdchem\1\methods\MSJ062116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 21 11:35:53 2016
Response via : Initial Calibration



MSJ062116a.M Fri Jul 01 08:05:02 2016 Page: 4

Manual Integration Approval Summary

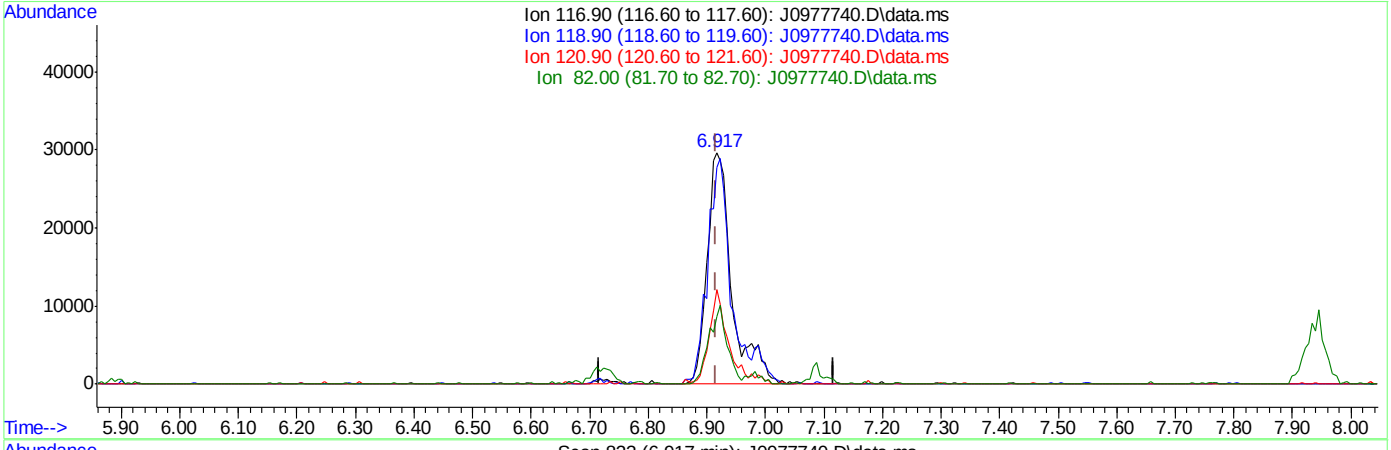
Sample Number:	FA34891-2MSD	**Method:**	SW846 8260C
Lab FileID:	J0977740.D	**Analyst approved:**	07/01/16 10:25 Darshna Patel
Injection Time:	06/30/16 18:57	**Supervisor approved:**	07/05/16 13:51 Juan Garcia

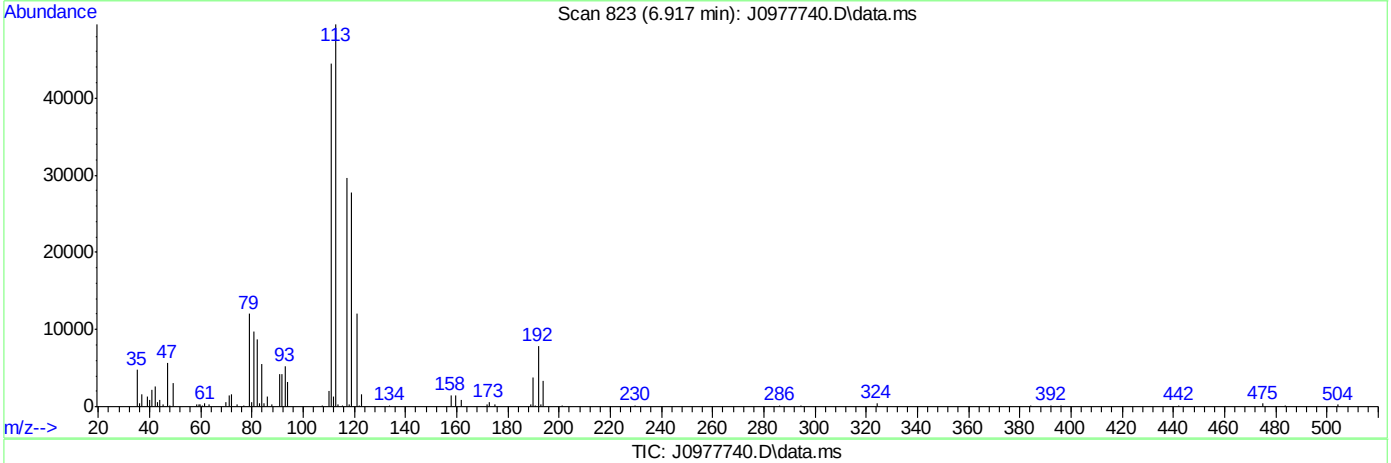
Parameter	CAS	Sig#	R.T. (min.)	Reason
Ethyl Alcohol	64-17-5		4.27	Poor instrument integration
Carbon Tetrachloride	56-23-5		6.92	Overlapping peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\063016\
Data File : J0977740.D
Acq On : 30 Jun 2016 6:57 pm
Operator : darshnap
Sample : fa34891-2msd ma Inst : MSVOA6
Misc : MS34294,vj5358,,,,,5
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Jul 01 07:53:20 2016
Quant Method : C:\msdchem\1\methods\MSJ062116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 21 11:35:53 2016
Response via : Initial Calibration





TIC: J0977740.D\data.ms

(37) Carbon Tetrachloride ( )

6.917min (+0.000) 27.65ug/L

response 88751

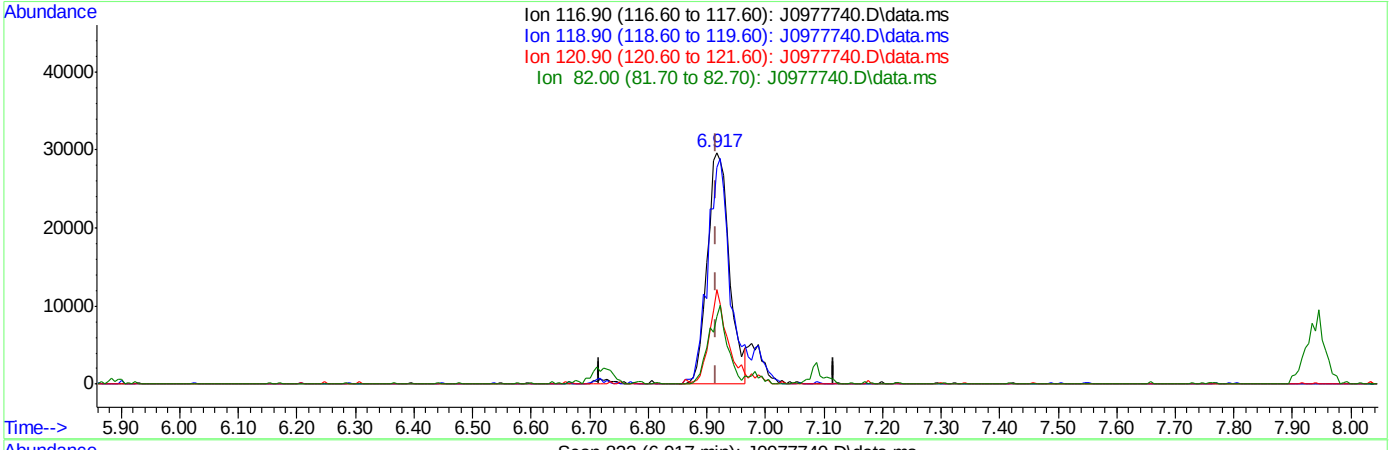
Ion	Exp%	Act%
116.90	100	100
118.90	91.80	93.34
120.90	27.00	40.67
82.00	24.80	29.35

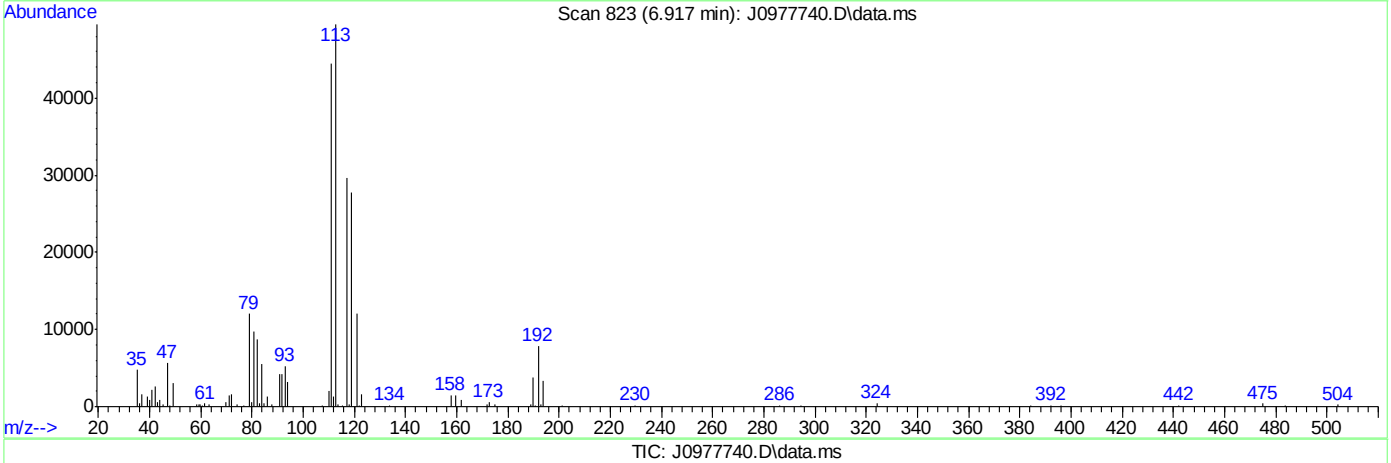
SGS ACCUTEST FA34891

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\063016\
Data File : J0977740.D
Acq On : 30 Jun 2016 6:57 pm
Operator : darshnap
Sample : fa34891-2msd ma Inst : MSVOA6
Misc : MS34294,vj5358,,,,,5
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Jul 01 07:53:20 2016
Quant Method : C:\msdchem\1\methods\MSJ062116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 21 11:35:53 2016
Response via : Initial Calibration





TIC: J0977740.D\data.ms

(37) Carbon Tetrachloride ( )

6.917min (+0.000) 24.46ug/L m

response 78527

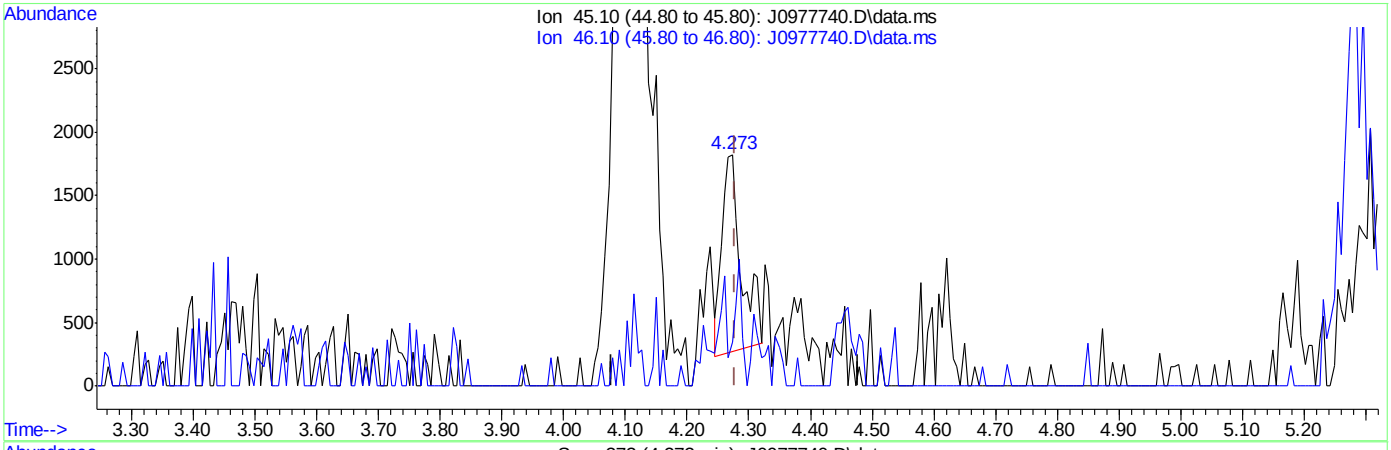
Ion	Exp%	Act%
116.90	100	100
118.90	91.80	93.34
120.90	27.00	40.67
82.00	24.80	29.35

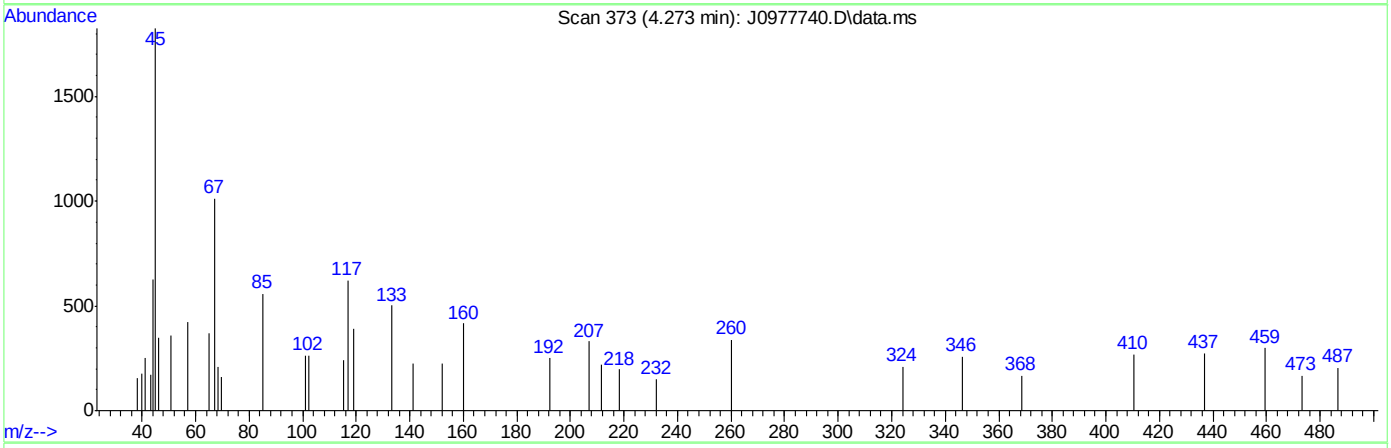
SGS ACCUTEST FA34891

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\063016\
Data File : J0977740.D
Acq On : 30 Jun 2016 6:57 pm
Operator : darshnap
Sample : fa34891-2msd ma Inst : MSVOA6
Misc : MS34294,vj5358,,,,,5
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Jul 01 07:53:20 2016
Quant Method : C:\msdchem\1\methods\MSJ062116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 21 11:35:53 2016
Response via : Initial Calibration





TIC: J0977740.D\data.ms

(107) Ethanol

4.273min (-0.006) 243.98ug/L

response 3425

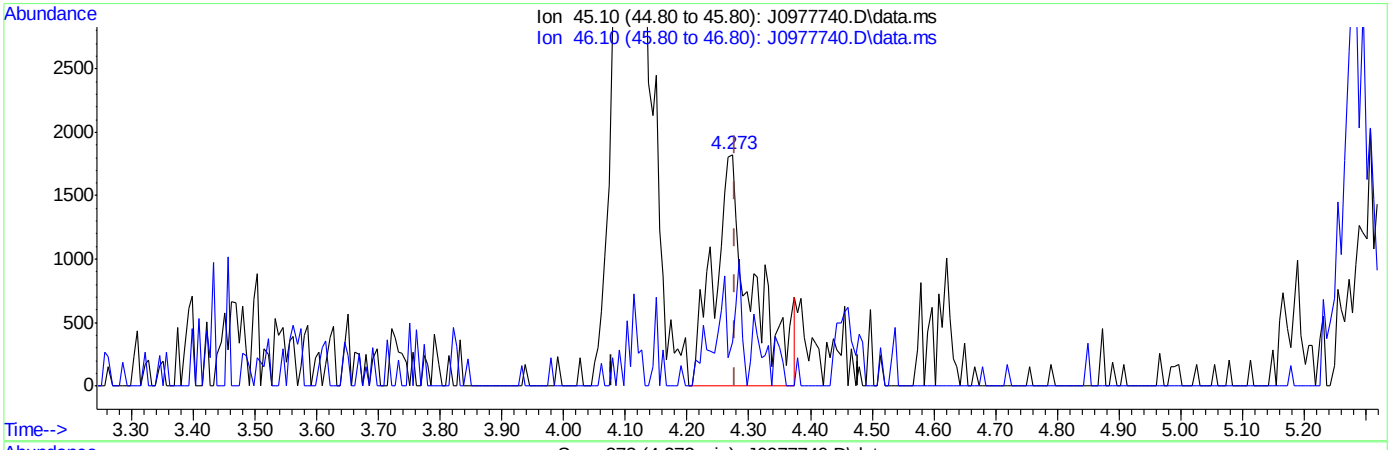
Ion	Exp%	Act%
45.10	100	100
46.10	23.90	8.26
0.00	0.00	0.00
0.00	0.00	0.00

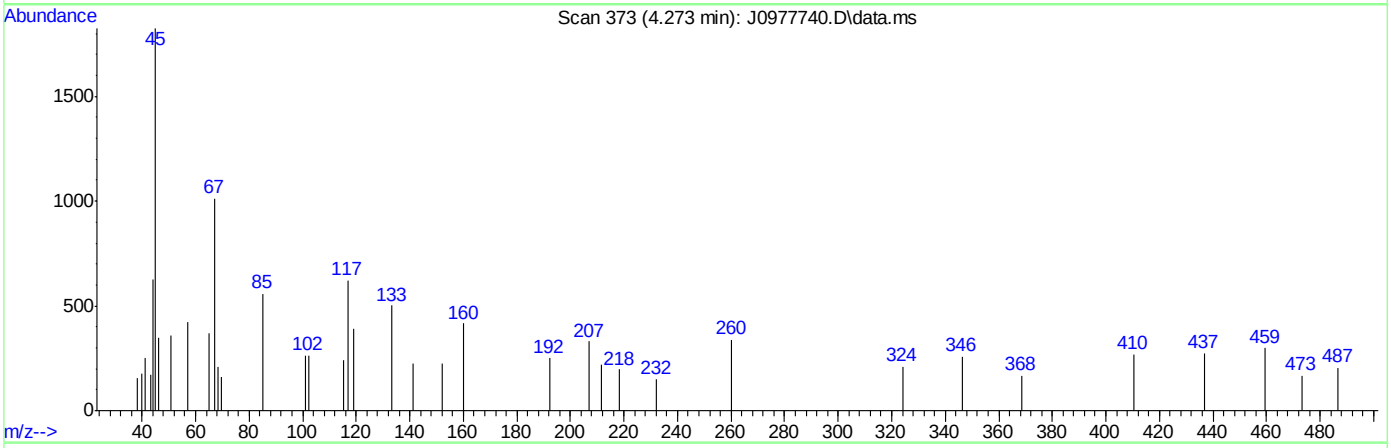
SGS ACCUTEST FA34891

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\063016\
Data File : J0977740.D
Acq On : 30 Jun 2016 6:57 pm
Operator : darshnap
Sample : fa34891-2msd ma Inst : MSVOA6
Misc : MS34294,vj5358,,,,,5
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Jul 01 07:53:20 2016
Quant Method : C:\msdchem\1\methods\MSJ062116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 21 11:35:53 2016
Response via : Initial Calibration





TIC: J0977740.D\data.ms

(107) Ethanol

4.273min (-0.006) 555.06ug/L m

response 7792

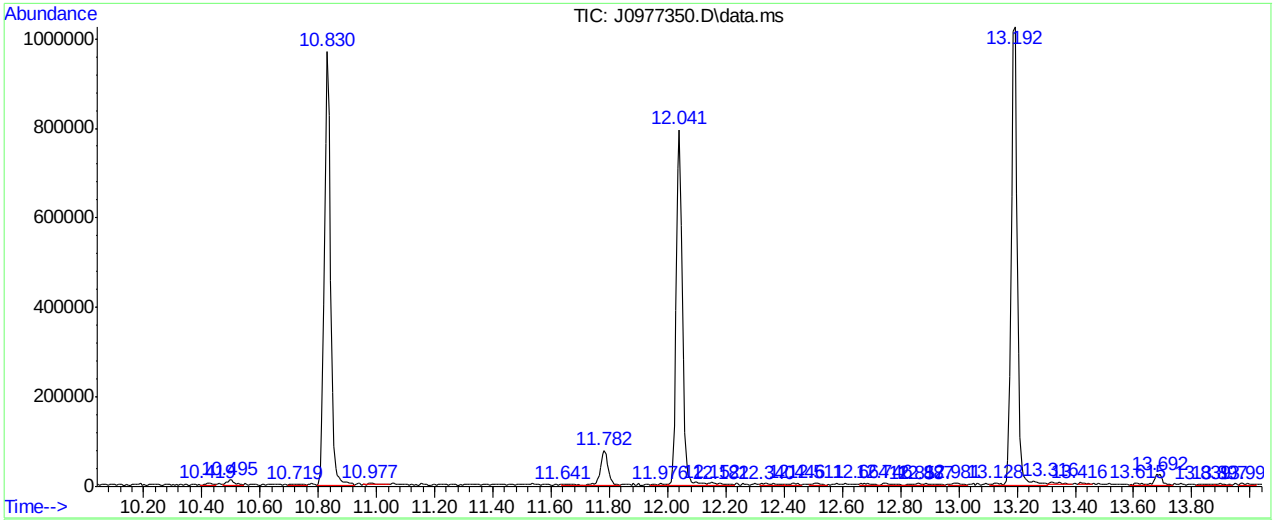
Ion	Exp%	Act%
45.10	100	100
46.10	23.90	19.18
0.00	0.00	0.00
0.00	0.00	0.00

SGS ACCUTEST FA34891

Methods: SW-846 8260B

Data File : C:\msdchem\1\data\062116\J0977350.D Vial: 1
Acq On : 21 Jun 2016 7:44 am Operator: darshnap
Sample : bfb Inst : MSVOA6
Misc : MS34057,vj5340,,,,, Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\msdchem\1\methods\MSJ062116a.M (RTE Integrator)
Title : SW-846 Method 5030B/8260B & EPA 624



AutoFind: Scans 1694, 1695, 1696; Background Corrected with Scan 1687

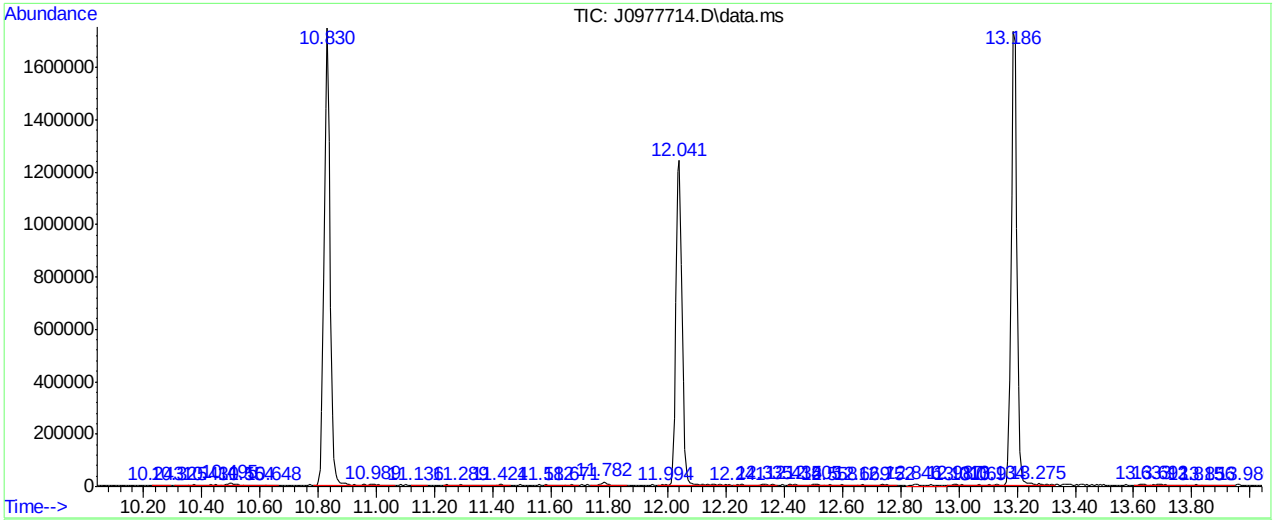
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	23.3	31261	PASS
75	95	30	60	58.4	78256	PASS
95	95	100	100	100.0	134093	PASS
96	95	5	9	6.9	9296	PASS
173	174	0.00	2	0.6	650	PASS
174	95	50	100	80.9	108475	PASS
175	174	5	9	7.8	8418	PASS
176	174	95	101	100.4	108896	PASS
177	176	5	9	6.7	7295	PASS

J0977350.D MSJ062116a.M Wed Jun 22 07:58:19 2016

Methods: SW-846 8260B

Data File : C:\msdchem\1\data\063016\J0977714.D Vial: 1
Acq On : 30 Jun 2016 8:13 am Operator: darshnap
Sample : BFB Inst : MSVOA6
Misc : MS34057,vj5357,,,,, Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\msdchem\1\methods\MSJ062116a.M (RTE Integrator)
Title : SW-846 Method 5030B/8260B & EPA 624



AutoFind: Scans 1694, 1695, 1696; Background Corrected with Scan 1686

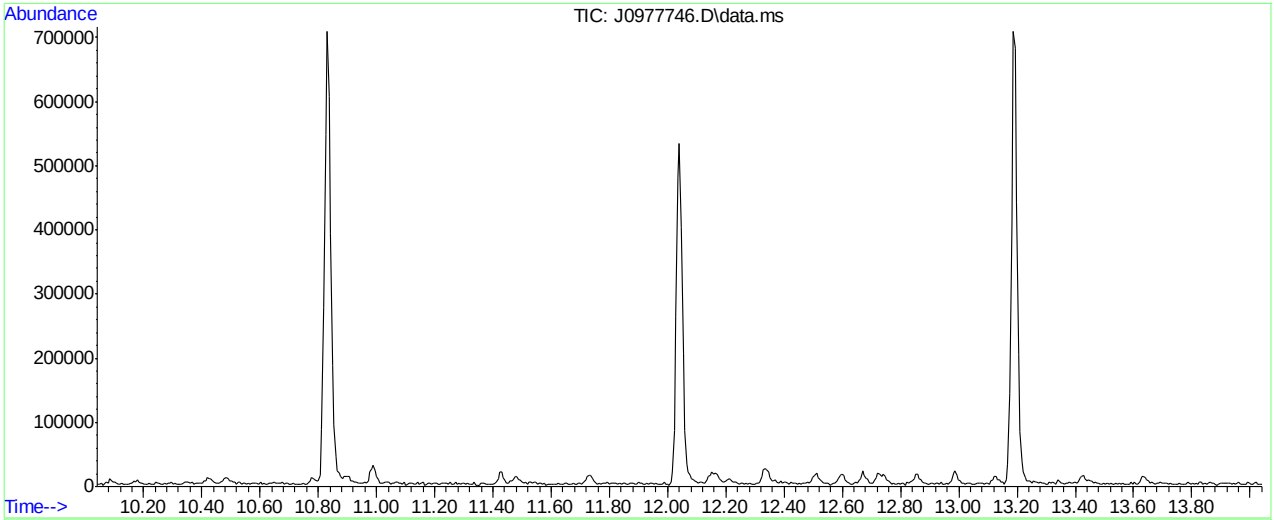
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	19.5	42120	PASS
75	95	30	60	54.5	117424	PASS
95	95	100	100	100.0	215467	PASS
96	95	5	9	6.1	13120	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	81.1	174763	PASS
175	174	5	9	8.2	14308	PASS
176	174	95	101	100.0	174677	PASS
177	176	5	9	5.8	10177	PASS

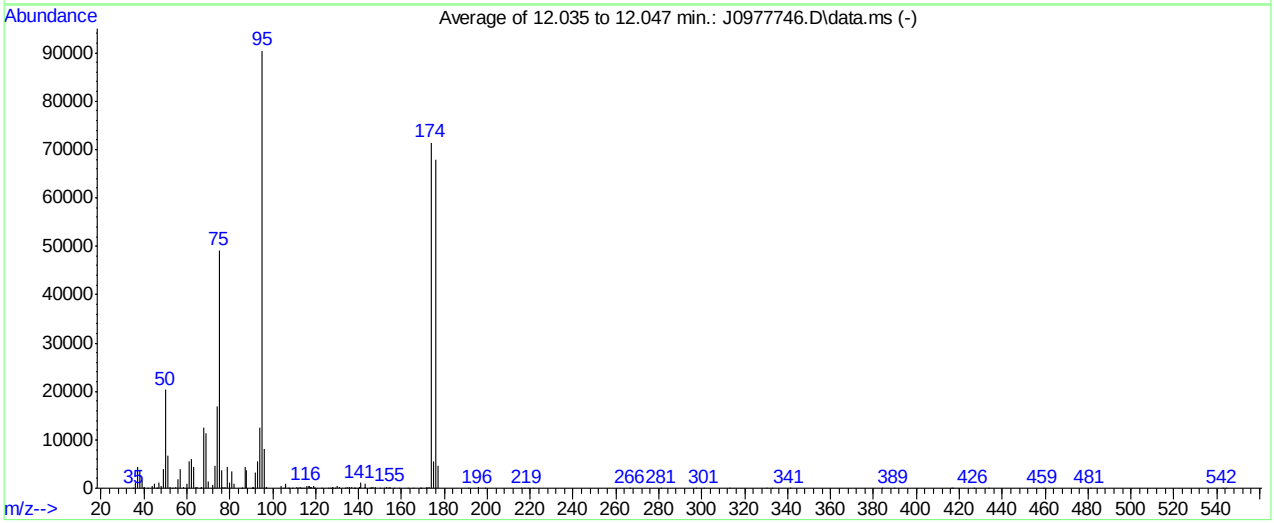
J0977714.D MSJ062116a.M Fri Jul 01 08:08:27 2016

Methods: SW-846 8260B

Data File : C:\msdchem\1\data\070116\J0977746.D Vial: 1
Acq On : 1 Jul 2016 8:57 am Operator: darshnap
Sample : bfb Inst : MSVOA6
Misc : MS34274,vj5359,,,,, Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\msdchem\1\methods\MSJ070116a.M (RTE Integrator)
Title : SW-846 Method 5030B/8260B & EPA 624





AutoFind: Scans 1694, 1695, 1696; Background Corrected with Scan 1687

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	22.4	20293	PASS
75	95	30	60	54.4	49184	PASS
95	95	100	100	100.0	90469	PASS
96	95	5	9	8.9	8041	PASS
173	174	0.00	2	0.3	205	PASS
174	95	50	100	78.9	71411	PASS
175	174	5	9	7.8	5567	PASS
176	174	95	101	95.0	67861	PASS
177	176	5	9	6.7	4547	PASS

J0977746.D MSJ070116a.M Tue Jul 05 08:01:10 2016

Manual Integrations APPROVED (compounds with "m" flag)
Juan Garcia
06/22/16 11:19

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\062116\
Data File : J0977352.D
Acq On : 21 Jun 2016 8:38 am
Operator : darshnap
Sample : ic5340-1 Inst : MSVOA6
Misc : MS34179,vj5340,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 21 10:52:09 2016
Quant Method : C:\msdchem\1\methods\MSJ062116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Mon Jun 20 14:13:55 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.740	96	609784	50.00	ug/L	0.00
56) Chlorobenzene-d5	10.830	117	439537	50.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	13.192	152	252669	50.00	ug/L	0.00
106) Tert Butyl Alcohol-d10	5.290	65	43013	250.00	ug/L	0.00
System Monitoring Compounds						
36) Dibromofluoromethane	6.917	113	166488	53.89	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 107.78%			
46) 1,2-Dichloroethane-d4	7.464	65	215933	51.17	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 102.34%			
57) Toluene-d8	9.285	98	582763	50.41	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 100.82%			
79) 4-Bromofluorobenzene	12.041	95	208801	43.26	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 86.52%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.675	85	4029m	1.20	ug/L	
3) Chloromethane	2.887	50	3404	0.87	ug/L	78
4) Vinyl Chloride	3.033	62	3961	1.13	ug/L	62
5) 1,3-Butadiene	3.010	54	2518	0.89	ug/L #	28
6) Bromomethane	3.456	94	4061	1.46	ug/L	73
7) Chloroethane	3.621	64	1986	0.86	ug/L #	43
8) Trichlorofluoromethane	3.821	101	6535m	1.18	ug/L	
9) Ethyl Ether	4.103	59	3087m	1.25	ug/L	
10) 1,2-Dichlorotrifluoroe...	4.355	67	3634	1.15	ug/L #	67
11) 1,1-Dichloroethene	4.385	61	4856	1.14	ug/L	78
12) Freon 113	4.455	101	1777	0.69	ug/L #	75
13) Carbon Disulfide	4.473	76	10212	1.17	ug/L	100
14) Iodomethane	4.579	142	6848	1.51	ug/L	83
15) Allyl chloride	4.914	41	4485	1.01	ug/L	96
16) Methylene Chloride	5.037	49	4580	1.06	ug/L	76
17) Acetone	5.066	58	912m	4.67	ug/L	
18) Methyl acetate	5.196	74	1686	5.01	ug/L #	51
19) trans-1,2-Dichloroethene	5.219	61	4208	1.03	ug/L	80
20) Hexane	5.301	56	3380	1.35	ug/L #	41
21) Methyl Tert Butyl Ether	5.313	73	11269	1.30	ug/L	85
22) Acetonitrile	5.595	40	788m	6.00	ug/L	
23) Di-isopropyl ether	5.713	45	11238	1.07	ug/L #	72
24) Chloroprene	5.865	53	4582	0.86	ug/L #	74
25) 1,1-Dichloroethane	5.889	63	5291	0.96	ug/L	96
26) Acrylonitrile	5.936	53	4350	5.17	ug/L	79
27) ETBE	6.106	59	12706	1.15	ug/L	80
28) Vinyl acetate	6.112	43	26349	4.22	ug/L	89
29) cis-1,2-Dichloroethene	6.482	96	4271	1.21	ug/L #	44
30) 2,2-Dichloropropane	6.588	77	5084	1.06	ug/L	68
31) Bromochloromethane	6.688	128	1656	1.07	ug/L #	57
32) Cyclohexane	6.723	56	5671	1.16	ug/L #	76
33) Chloroform	6.729	83	9026	1.46	ug/L	70
34) Ethyl acetate	6.800	43	11281	5.23	ug/L	100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\062116\
Data File : J0977352.D
Acq On : 21 Jun 2016 8:38 am
Operator : darshnap
Sample : ic5340-1 Inst : MSVOA6
Misc : MS34179,vj5340,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 21 10:52:09 2016
Quant Method : C:\msdchem\1\methods\MSJ062116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Mon Jun 20 14:13:55 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
35) Tetrahydrofuran	6.905	42	607	1.03 ug/L #	58
37) Carbon Tetrachloride	6.923	117	5052	1.18 ug/L	76
38) 1,1,1-Trichloroethane	6.976	97	6034	1.13 ug/L	78
39) 2-Butanone	7.029	43	4169	4.88 ug/L	79
40) 1,1-Dichloropropene	7.093	75	4074	0.99 ug/L #	63
41) tert-Butyl Formate	7.170	59	15472	6.07 ug/L #	80
42) Propionitrile	7.328	54	3119	10.06 ug/L	93
43) Methacrylonitrile	7.352	41	12862	9.36 ug/L	92
44) Benzene	7.346	78	13034	1.20 ug/L	96
45) TAME	7.417	73	12172	1.35 ug/L	81
47) 1,2-Dichloroethane	7.540	62	7498	1.54 ug/L	65
48) Trichloroethene	7.922	95	3468	1.11 ug/L #	69
49) Methylcyclohexane	7.934	83	7678	1.56 ug/L #	58
50) Dibromomethane	8.345	93	2748	1.52 ug/L #	71
51) 1,2-Dichloropropane	8.433	63	3449	1.12 ug/L #	73
52) Bromodichloromethane	8.486	83	5195	1.24 ug/L #	84
53) Methyl methacrylate	8.580	41	1092m	0.52 ug/L	
55) cis-1,3-Dichloropropene	9.109	75	5916	1.20 ug/L	88
58) Toluene	9.332	91	17283	1.31 ug/L	81
59) 2-Nitropropane	9.538	41	3895	5.98 ug/L #	78
60) 4-Methyl-2-pentanone	9.661	43	10084	4.64 ug/L	92
61) trans-1,3-Dichloropropene	9.726	75	4887	1.17 ug/L	80
62) Tetrachloroethene	9.737	166	3191	1.08 ug/L #	68
63) Ethyl methacrylate	9.837	69	3323	0.99 ug/L #	80
64) 1,1,2-Trichloroethane	9.896	83	3008	1.37 ug/L	89
65) Dibromochloromethane	10.090	129	3991	1.32 ug/L	65
66) 1,3-Dichloropropane	10.172	76	5773	1.28 ug/L	95
67) 1,2-Dibromoethane	10.354	107	3557	1.42 ug/L	93
68) 2-hexanone	10.484	43	6576	4.43 ug/L	80
69) 1-Chlorohexane	10.777	91	4348	1.06 ug/L	94
70) Ethylbenzene	10.848	91	18292	1.21 ug/L	95
71) Chlorobenzene	10.848	112	13814	1.76 ug/L #	79
72) 1,1,1,2-Tetrachloroethane	10.901	131	4438	1.44 ug/L #	76
73) m,p-Xylene	10.989	91	28519	2.45 ug/L	90
74) o-Xylene	11.424	91	17025	1.37 ug/L	97
75) Styrene	11.483	104	11193	1.20 ug/L	90
76) Bromoform	11.541	173	2369	1.30 ug/L	84
77) Isopropylbenzene	11.729	105	16478	1.16 ug/L	99
80) cis-1,4-Dichloro-2-butene	12.082	53	703	0.63 ug/L #	18
81) n-Propylbenzene	12.152	91	22746	1.23 ug/L	98
82) Bromobenzene	12.170	156	5372	1.31 ug/L	97
83) 1,1,2,2-Tetrachloroethane	12.205	83	4814	1.41 ug/L	95
84) 1,3,5-Trimethylbenzene	12.329	105	15598	1.13 ug/L	96
85) 2-Chlorotoluene	12.340	91	15430	1.16 ug/L	94
86) trans-1,4-Dichloro-2-B...	12.405	53	466	0.47 ug/L	89
87) 1,2,3-Trichloropropane	12.376	110	1489	1.53 ug/L #	59
88) Cyclohexanone	12.440	55	1135	13.47 ug/L #	47
89) 4-Chlorotoluene	12.505	91	16036	1.31 ug/L	95
90) a-Methyl Styrene	12.593	118	5495	0.74 ug/L #	74
91) tert-Butylbenzene	12.669	91	10226	1.31 ug/L	73

SGS ACCUTEST FA34891

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\062116\
Data File : J0977352.D
Acq On : 21 Jun 2016 8:38 am
Operator : darshnap
Sample : ic5340-1 Inst : MSVOA6
Misc : MS34179,vj5340,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 21 10:52:09 2016
Quant Method : C:\msdchem\1\methods\MSJ062116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Mon Jun 20 14:13:55 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
92) 1,2,4-Trimethylbenzene	12.740	105	17200	1.20	ug/L		85
93) Pentachloroethane	12.728	167	2201	0.86	ug/L		87
94) sec-Butylbenzene	12.857	105	19388	1.19	ug/L		91
95) 4-Isopropyltoluene	12.987	119	17094	1.22	ug/L		84
96) 1,3-Dichlorobenzene	13.122	146	10394	1.45	ug/L		90
97) 1,4-Dichlorobenzene	13.204	146	11318m	1.56	ug/L		
98) n-Butylbenzene	13.427	92	8758	1.08	ug/L		85
99) Benzyl Chloride	13.427	126	1561	1.26	ug/L	#	47
100) 1,2-Dichlorobenzene	13.633	146	10534	1.56	ug/L		94
101) 1,2-Dibromo-3-Chloropr...	14.373	75	522	0.98	ug/L	#	79
102) Hexachlorobutadiene	14.920	225	3025	1.05	ug/L		81
103) 1,2,4-Trichlorobenzene	14.967	180	6518	1.27	ug/L		91
104) Naphthalene	15.255	128	10011	1.24	ug/L		91
105) 1,2,3-Trichlorobenzene	15.419	180	5727	1.34	ug/L	#	69
108) acrolein	4.761	56	1719m	4.55	ug/L		
109) Tert Butyl Alcohol	5.366	59	3343	14.76	ug/L	#	76
110) tert Amyl alcohol	7.558	59	2135	13.22	ug/L		91
111) Isobutyl alcohol	7.434	42	818m	13.47	ug/L		
112) 1,4-Dioxane	8.674	88	895	50.54	ug/L	#	26
113) 3,3-Dimethyl-1-butanol	10.425	57	6657	40.91	ug/L	#	77

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

7.6.1

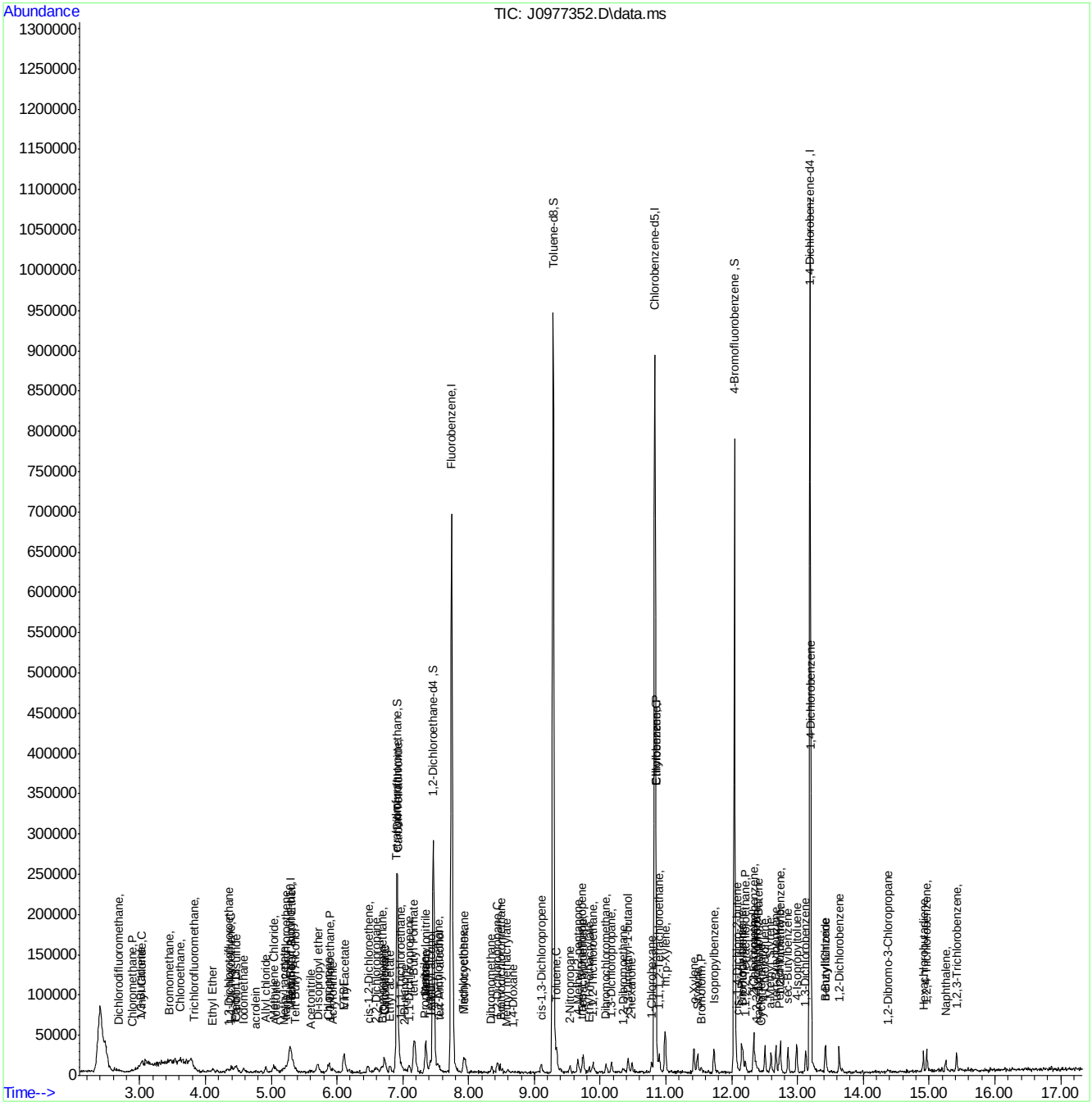
7

SGS ACCUTEST FA34891

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\062116\
Data File : J0977352.D
Acq On : 21 Jun 2016 8:38 am
Operator : darshnap
Sample : ic5340-1 Inst : MSVOA6
Misc : MS34179,vj5340,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 21 10:52:09 2016
Quant Method : C:\msdchem\1\methods\MSJ062116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Mon Jun 20 14:13:55 2016
Response via : Initial Calibration



MSJ062116a.M Wed Jun 22 07:50:51 2016 Page: 4

Manual Integration Approval Summary

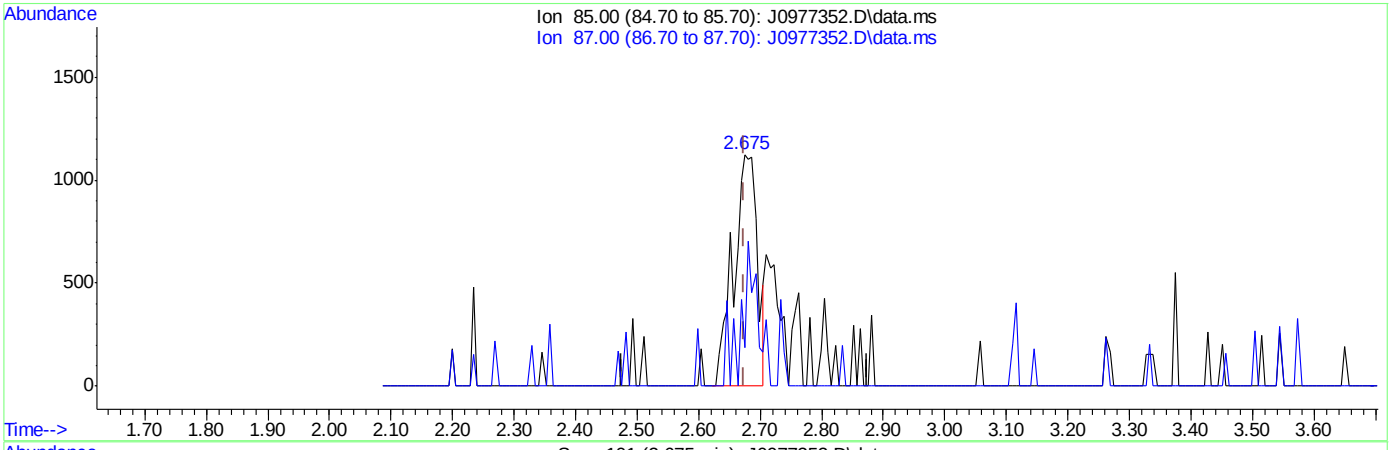
Sample Number:	VJ5340-IC5340	**Method:**	SW846 8260B
Lab FileID:	J0977352.D	**Analyst approved:**	06/22/16 10:10 Darshna Patel
Injection Time:	06/21/16 08:38	**Supervisor approved:**	06/22/16 11:19 Juan Garcia

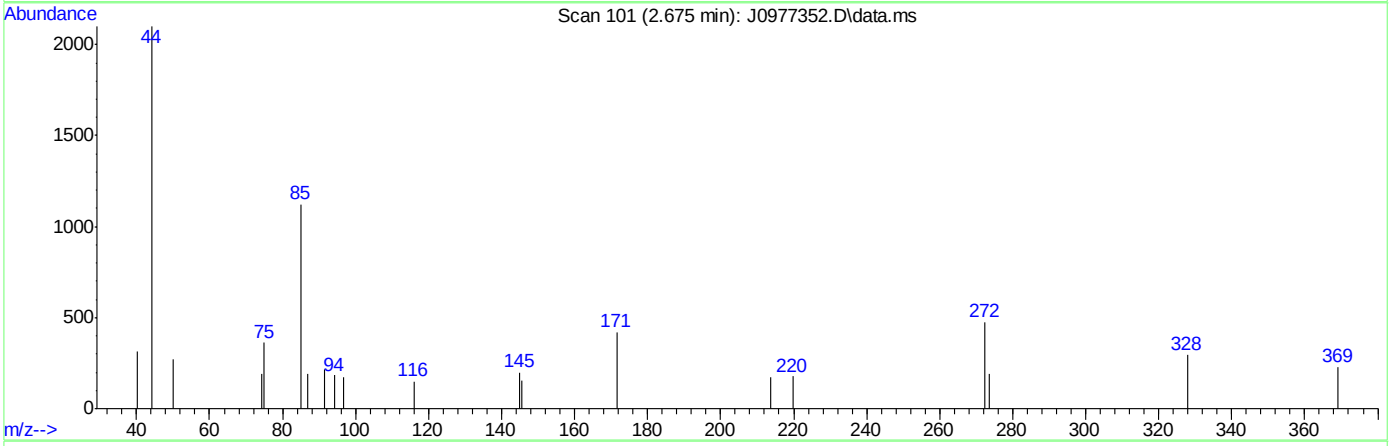
Parameter	CAS	Sig#	R.T. (min.)	Reason
Dichlorodifluoromethane	75-71-8		2.68	Poor instrument integration
Trichlorofluoromethane	75-69-4		3.82	Split peak
Ethyl Ether	60-29-7		4.10	Poor instrument integration
Acrolein	107-02-8		4.76	Poor instrument integration
Acetone	67-64-1		5.07	Poor instrument integration
Acetonitrile	75-05-8		5.60	Poor instrument integration
Isobutyl Alcohol	78-83-1		7.43	Poor instrument integration
Methyl Methacrylate	80-62-6		8.58	Poor instrument integration
1,4-Dichlorobenzene	106-46-7		13.20	Poor instrument integration

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\062116\
Data File : J0977352.D
Acq On : 21 Jun 2016 8:38 am
Operator : darshnap
Sample : ic5340-1 Inst : MSVOA6
Misc : MS34179,vj5340,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 21 10:48:12 2016
Quant Method : C:\msdchem\1\methods\MSJ062116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Mon Jun 20 14:13:55 2016
Response via : Initial Calibration





TIC: J0977352.D\data.ms

(2) Dichlorodifluoromethane ( )

2.675min (+0.000) 0.90ug/L

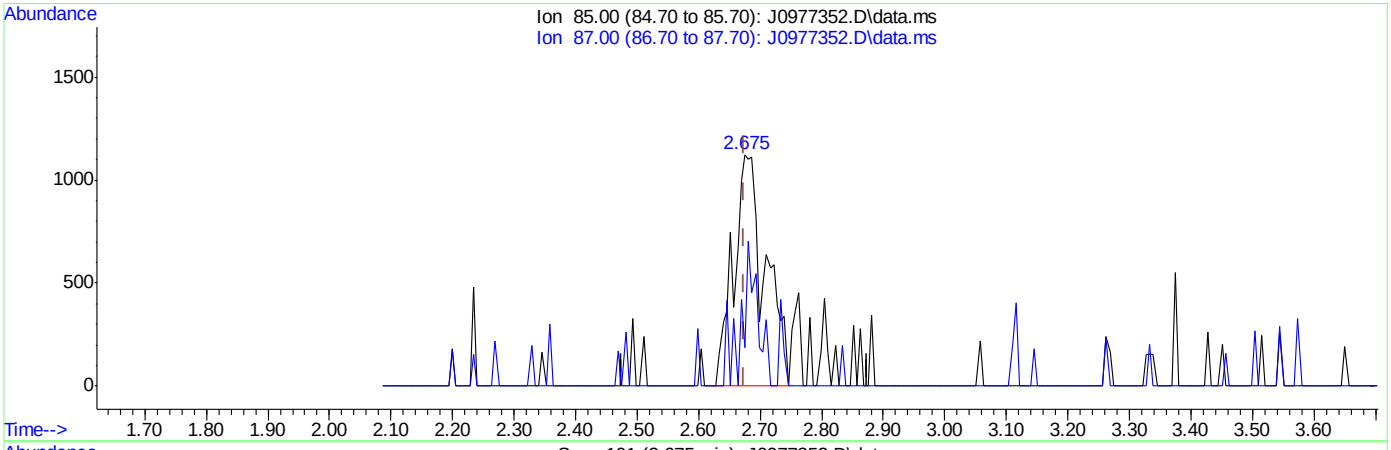
response 3027

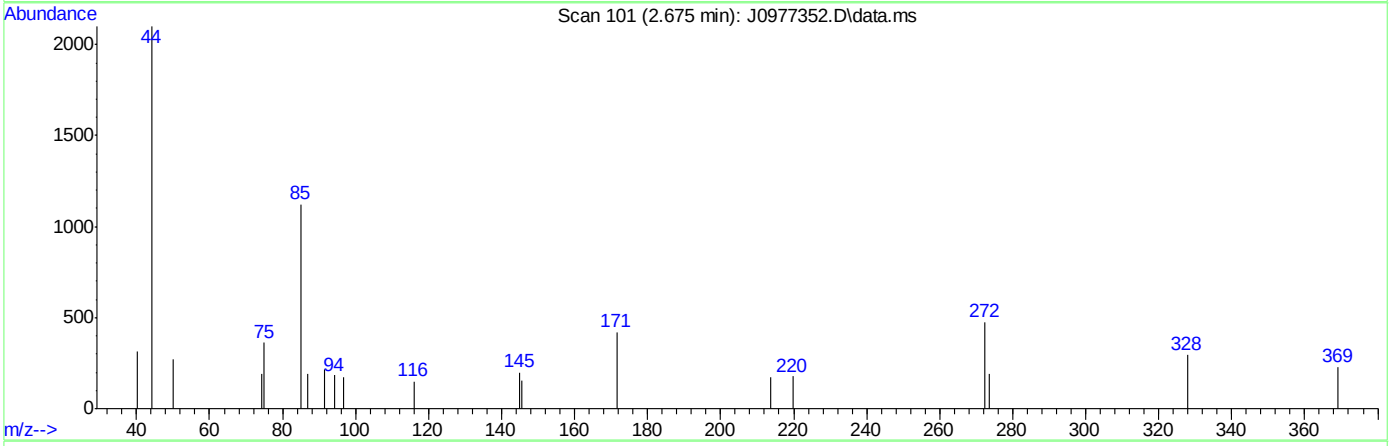
Ion	Exp%	Act%
85.00	100	100
87.00	28.80	16.81
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\062116\
Data File : J0977352.D
Acq On : 21 Jun 2016 8:38 am
Operator : darshnap
Sample : ic5340-1 Inst : MSVOA6
Misc : MS34179,vj5340,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 21 10:48:12 2016
Quant Method : C:\msdchem\1\methods\MSJ062116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Mon Jun 20 14:13:55 2016
Response via : Initial Calibration





TIC: J0977352.D\data.ms

(2) Dichlorodifluoromethane ( )

2.675min (+0.000) 1.20ug/L m

response 4029

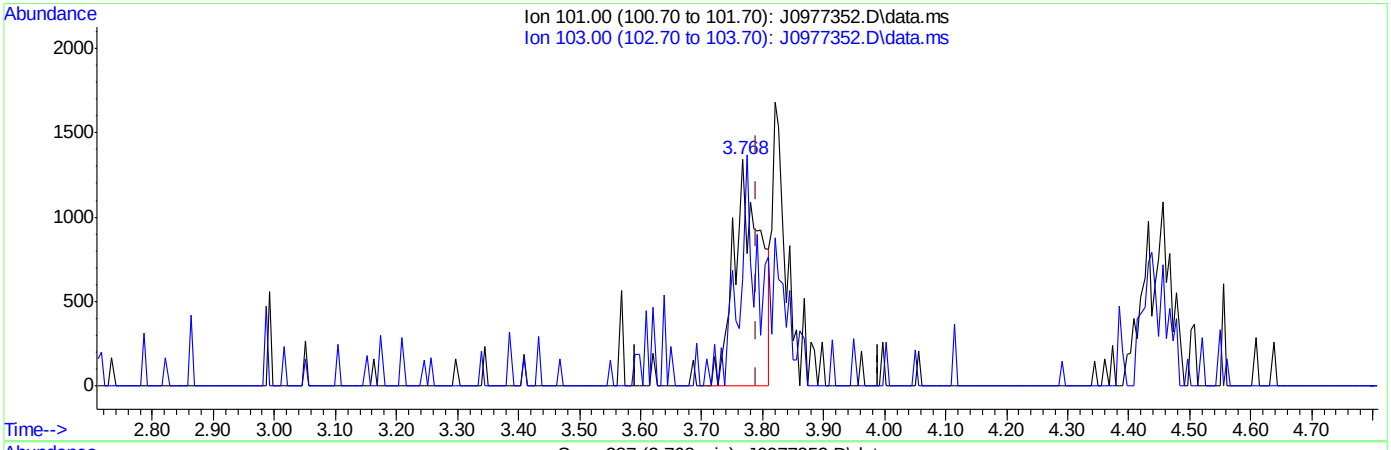
Ion	Exp%	Act%
85.00	100	100
87.00	28.80	16.81
0.00	0.00	0.00
0.00	0.00	0.00

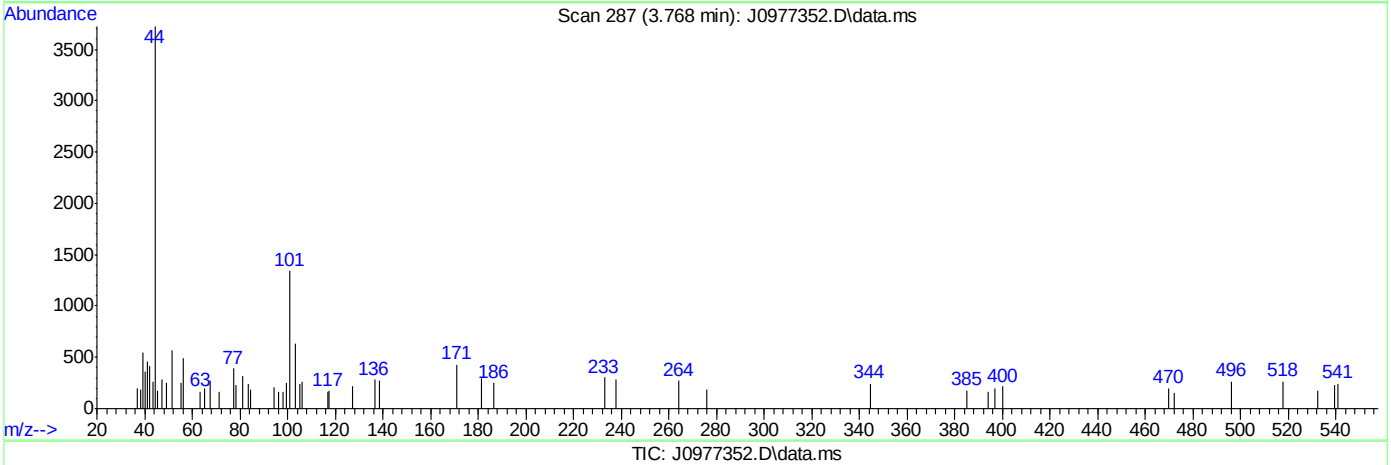
SGS ACCUTEST FA34891

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\062116\
Data File : J0977352.D
Acq On : 21 Jun 2016 8:38 am
Operator : darshnap
Sample : ic5340-1 Inst : MSVOA6
Misc : MS34179,vj5340,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 21 10:48:12 2016
Quant Method : C:\msdchem\1\methods\MSJ062116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Mon Jun 20 14:13:55 2016
Response via : Initial Calibration





TIC: J0977352.D\data.ms

(8) Trichlorofluoromethane ( )

3.768min (-0.023) 0.72ug/L

response 3954

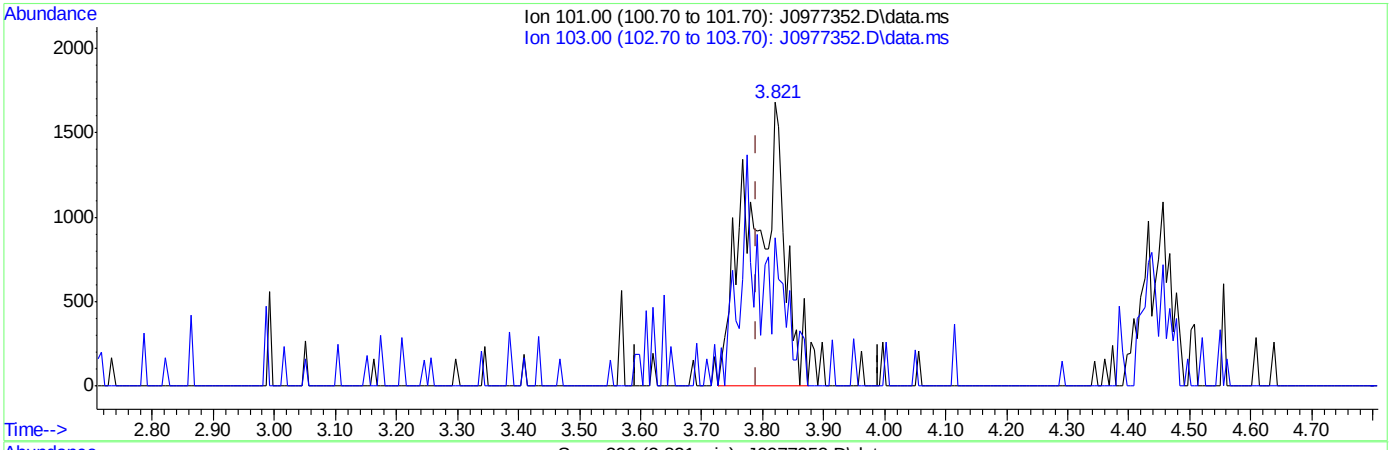
Ion	Exp%	Act%
101.00	100	100
103.00	54.80	35.52
0.00	0.00	0.00
0.00	0.00	0.00

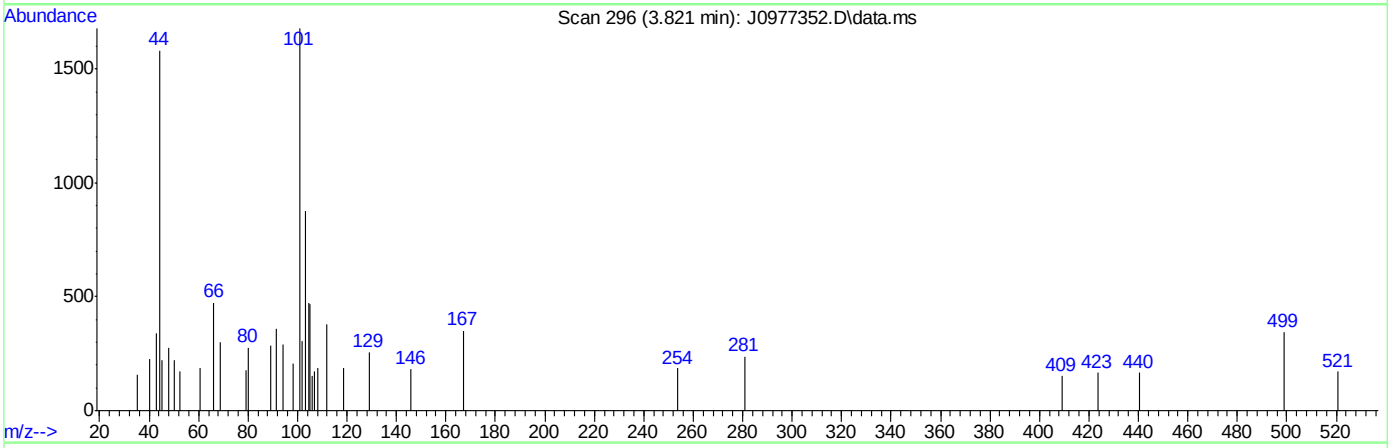
SGS ACCUTEST FA34891

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\062116\
Data File : J0977352.D
Acq On : 21 Jun 2016 8:38 am
Operator : darshnap
Sample : ic5340-1 Inst : MSVOA6
Misc : MS34179,vj5340,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 21 10:48:12 2016
Quant Method : C:\msdchem\1\methods\MSJ062116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Mon Jun 20 14:13:55 2016
Response via : Initial Calibration





TIC: J0977352.D\data.ms

(8) Trichlorofluoromethane ( )

3.821min (+0.030) 1.18ug/L m

response 6535

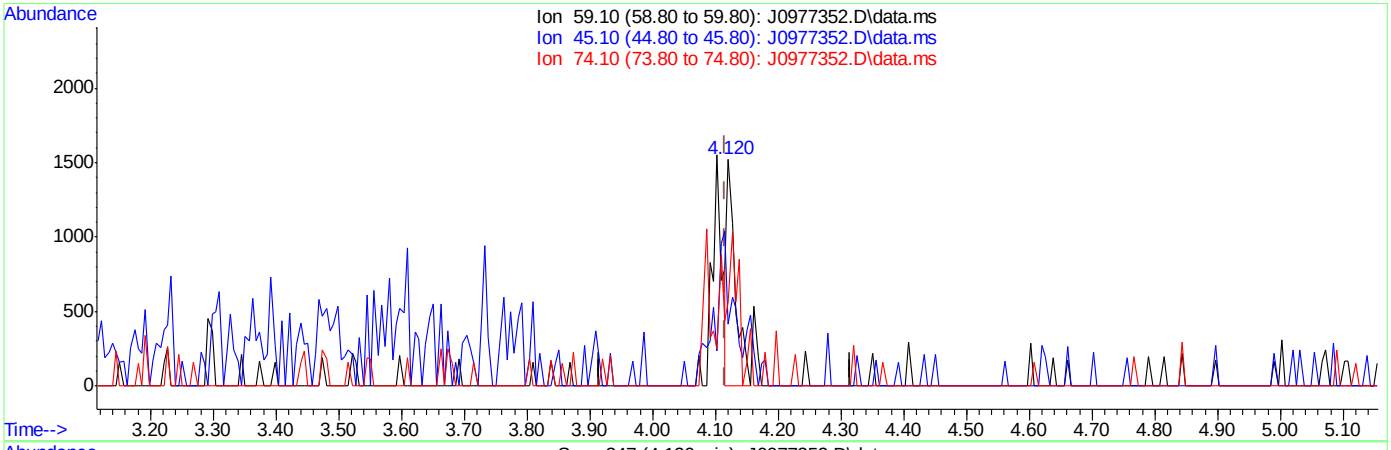
Ion	Exp%	Act%
101.00	100	100
103.00	54.80	52.15
0.00	0.00	0.00
0.00	0.00	0.00

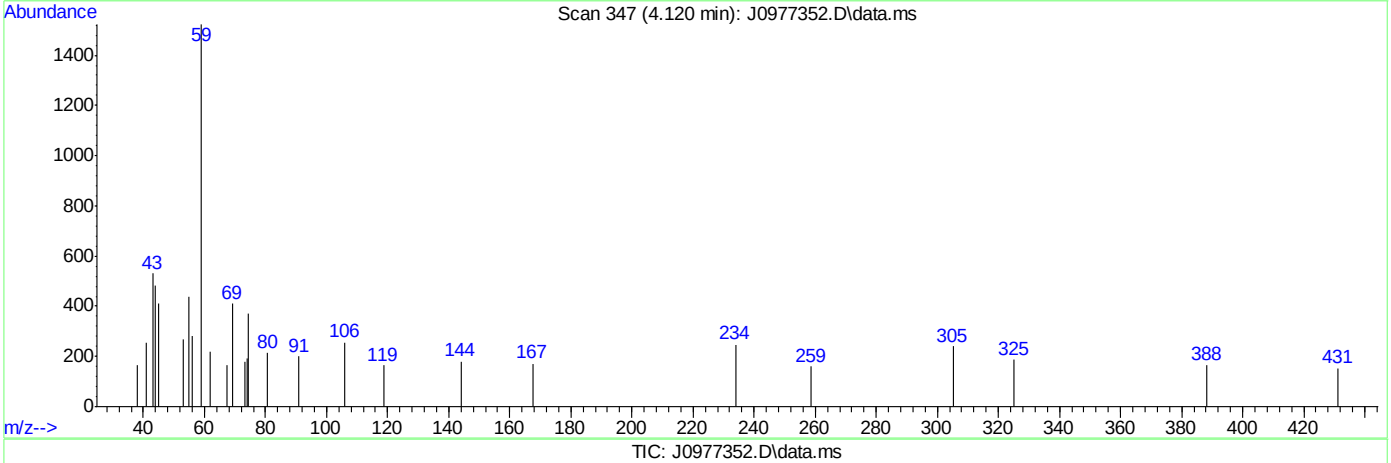
SGS ACCUTEST FA34891

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\062116\
Data File : J0977352.D
Acq On : 21 Jun 2016 8:38 am
Operator : darshnap
Sample : ic5340-1 Inst : MSVOA6
Misc : MS34179,vj5340,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 21 10:48:12 2016
Quant Method : C:\msdchem\1\methods\MSJ062116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Mon Jun 20 14:13:55 2016
Response via : Initial Calibration





TIC: J0977352.D\data.ms

(9) Ethyl Ether

4.120min (+0.005) 0.57ug/L

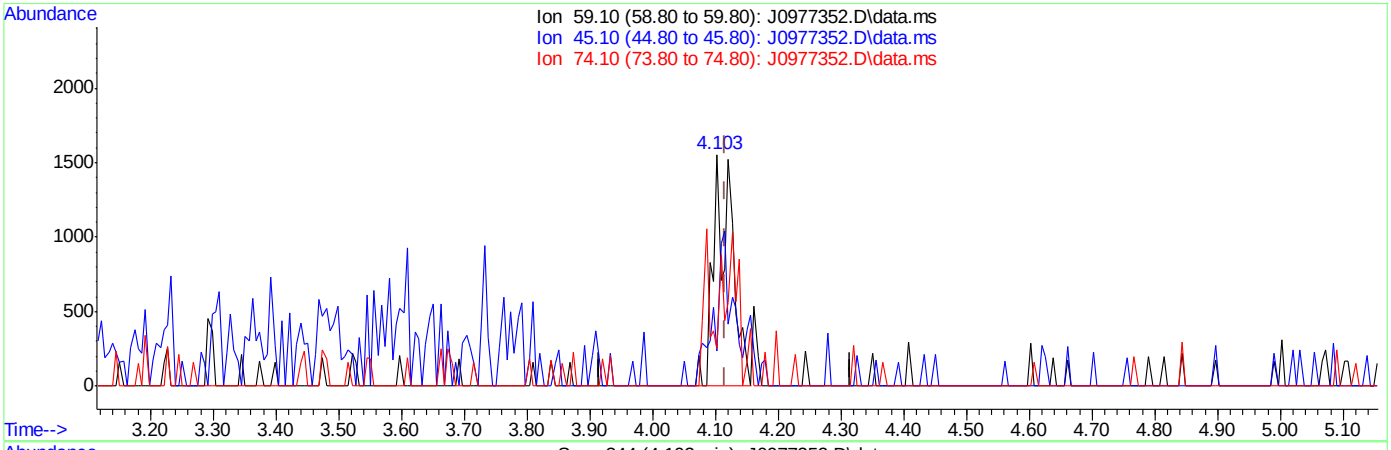
response 1400

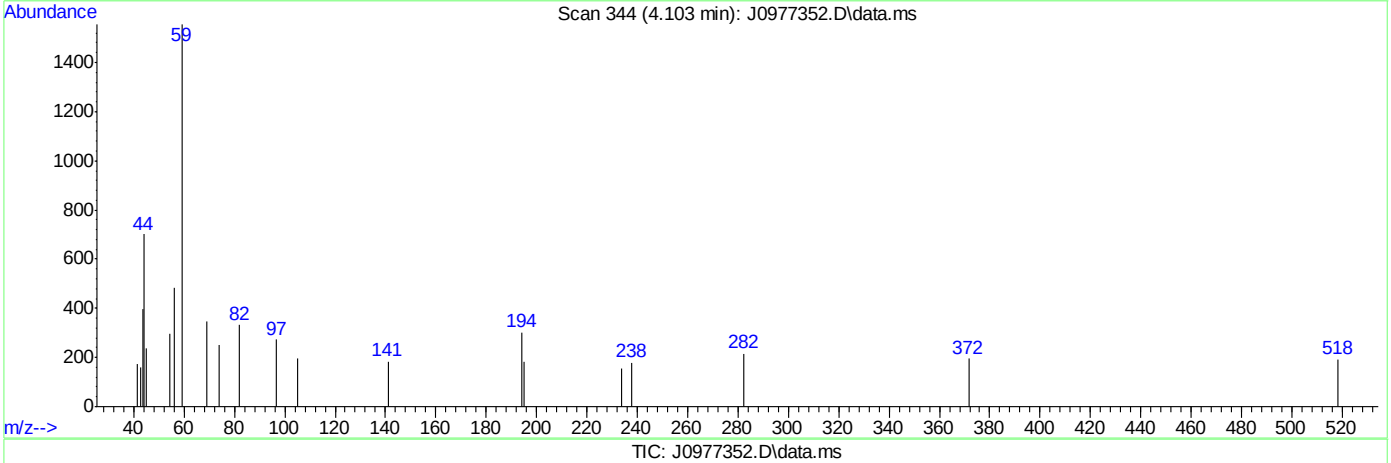
Ion	Exp%	Act%
59.10	100	100
45.10	60.20	0.00#
74.10	52.50	11.49#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\062116\
Data File : J0977352.D
Acq On : 21 Jun 2016 8:38 am
Operator : darshnap
Sample : ic5340-1 Inst : MSVOA6
Misc : MS34179,vj5340,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 21 10:48:12 2016
Quant Method : C:\msdchem\1\methods\MSJ062116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Mon Jun 20 14:13:55 2016
Response via : Initial Calibration





TIC: J0977352.D\data.ms

(9) Ethyl Ether

4.103min (-0.012) 1.25ug/L m

response 3087

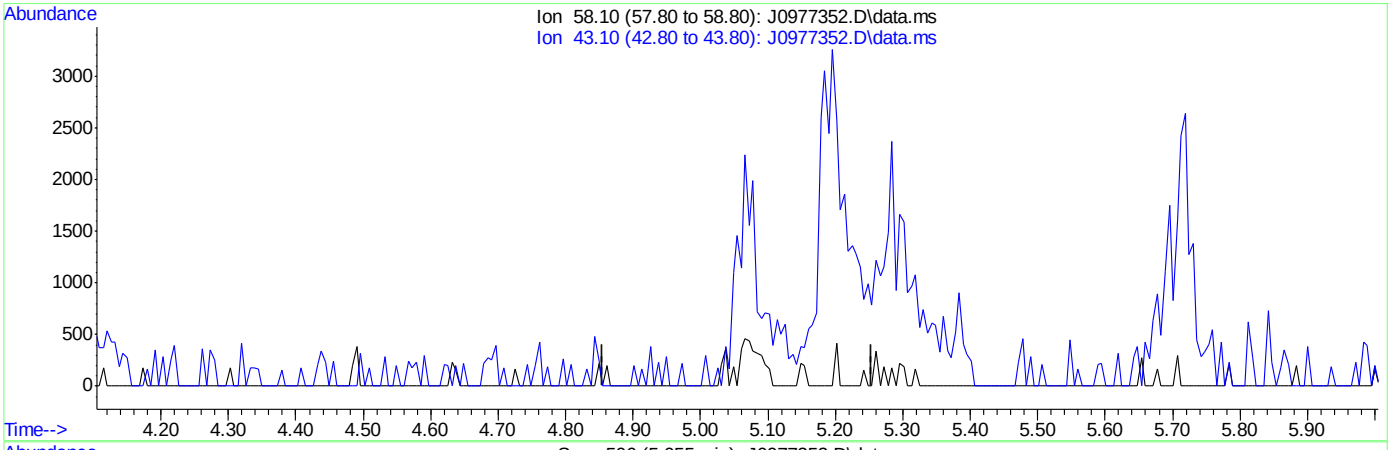
Ion	Exp%	Act%
59.10	100	100
45.10	60.20	15.37#
74.10	52.50	16.21#
0.00	0.00	0.00

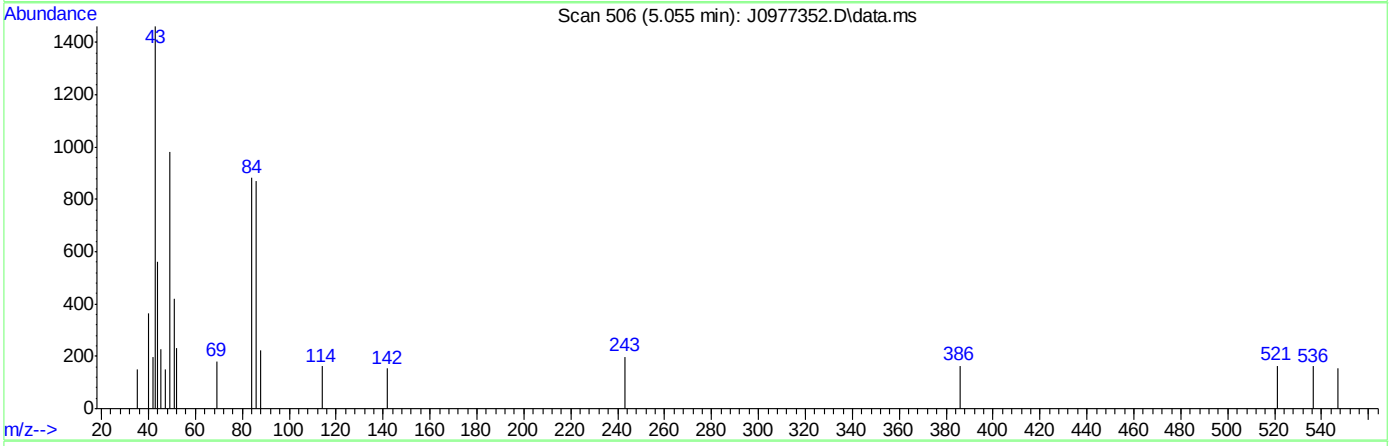
SGS ACCUTEST FA34891

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\062116\
Data File : J0977352.D
Acq On : 21 Jun 2016 8:38 am
Operator : darshnap
Sample : ic5340-1 Inst : MSVOA6
Misc : MS34179,vj5340,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 21 10:48:12 2016
Quant Method : C:\msdchem\1\methods\MSJ062116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Mon Jun 20 14:13:55 2016
Response via : Initial Calibration





TIC: J0977352.D\data.ms

(17) Acetone

5.055min (-5.055) 0.00ug/L

response 0

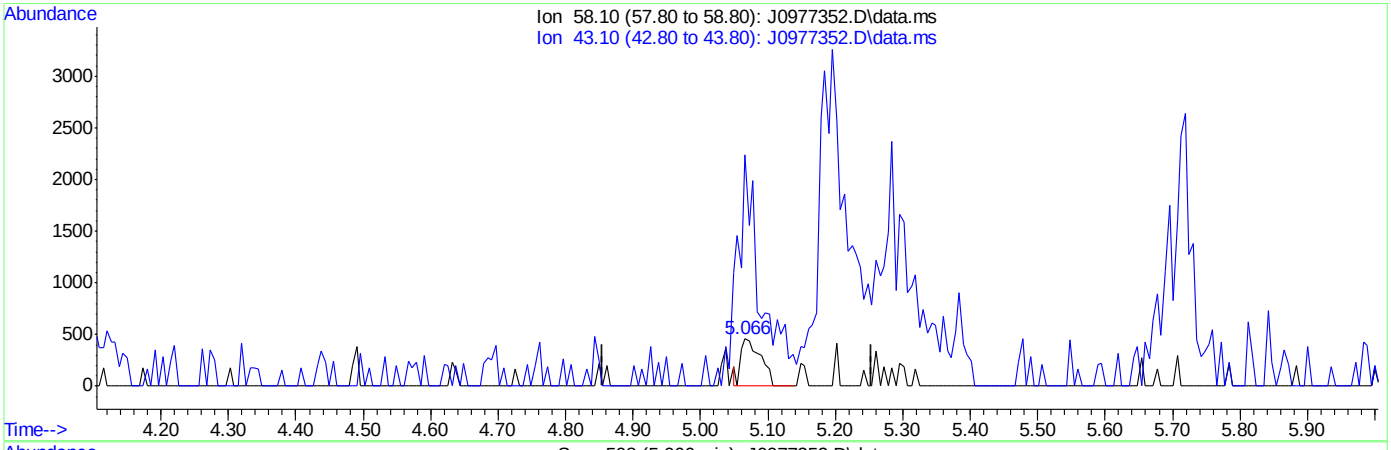
Ion	Exp%	Act%
58.10	100	0.00
43.10	334.40	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

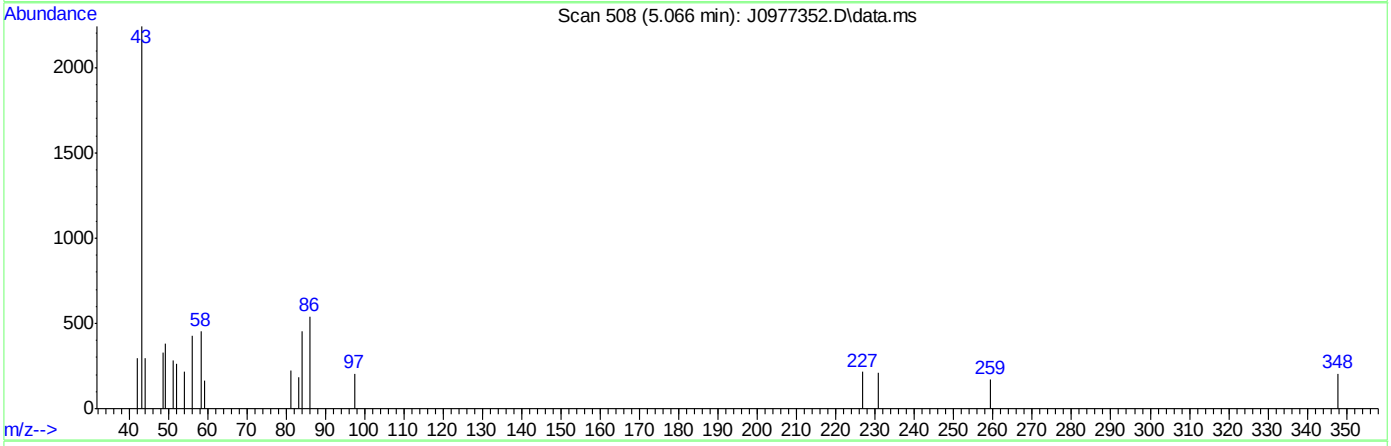
SGS ACCUTEST FA34891

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\062116\
Data File : J0977352.D
Acq On : 21 Jun 2016 8:38 am
Operator : darshnap
Sample : ic5340-1 Inst : MSVOA6
Misc : MS34179,vj5340,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 21 10:48:12 2016
Quant Method : C:\msdchem\1\methods\MSJ062116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Mon Jun 20 14:13:55 2016
Response via : Initial Calibration





TIC: J0977352.D\data.ms

(17) Acetone

5.066min (+0.011) 4.67ug/L m

response 912

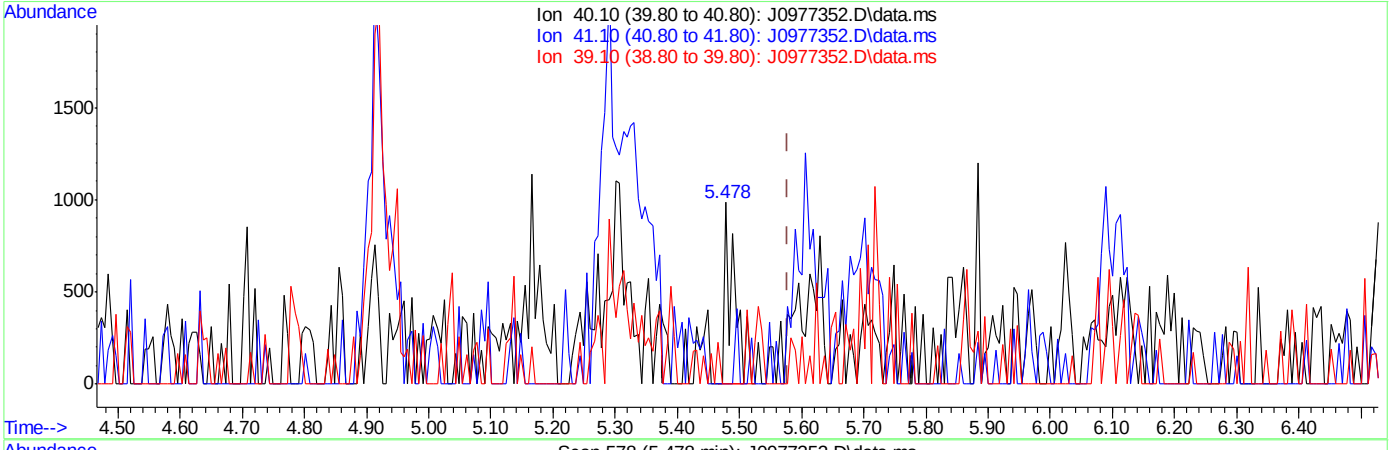
Ion	Exp%	Act%
58.10	100	100
43.10	334.40	492.75#
0.00	0.00	0.00
0.00	0.00	0.00

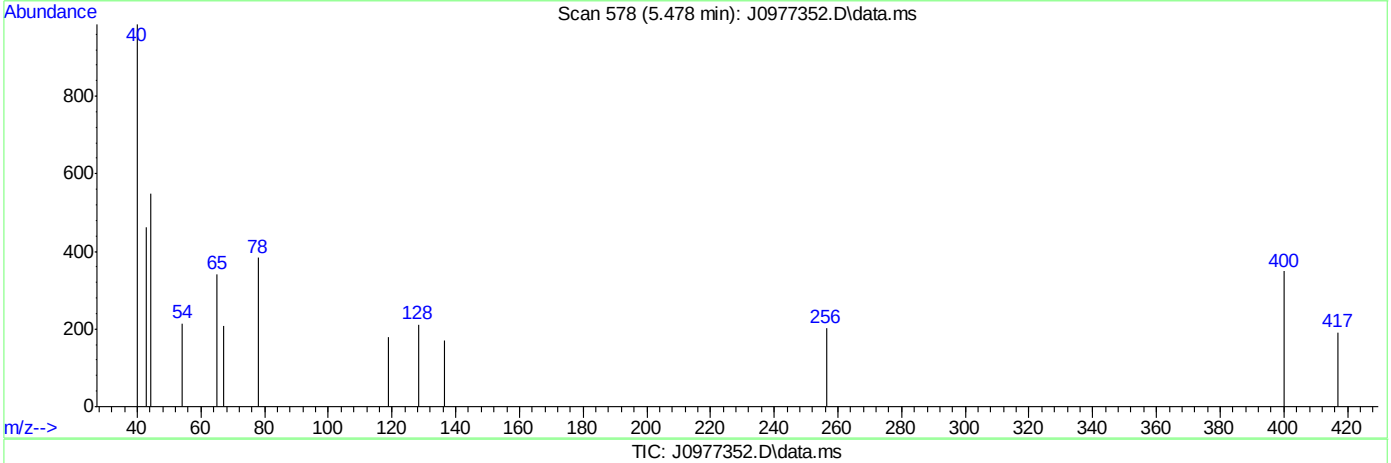
SGS ACCUTEST FA34891

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\062116\
Data File : J0977352.D
Acq On : 21 Jun 2016 8:38 am
Operator : darshnap
Sample : ic5340-1 Inst : MSVOA6
Misc : MS34179,vj5340,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 21 10:48:12 2016
Quant Method : C:\msdchem\1\methods\MSJ062116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Mon Jun 20 14:13:55 2016
Response via : Initial Calibration





TIC: J0977352.D\data.ms

(22) Acetonitrile

5.478min (-0.100) 8.28ug/L

response 1089

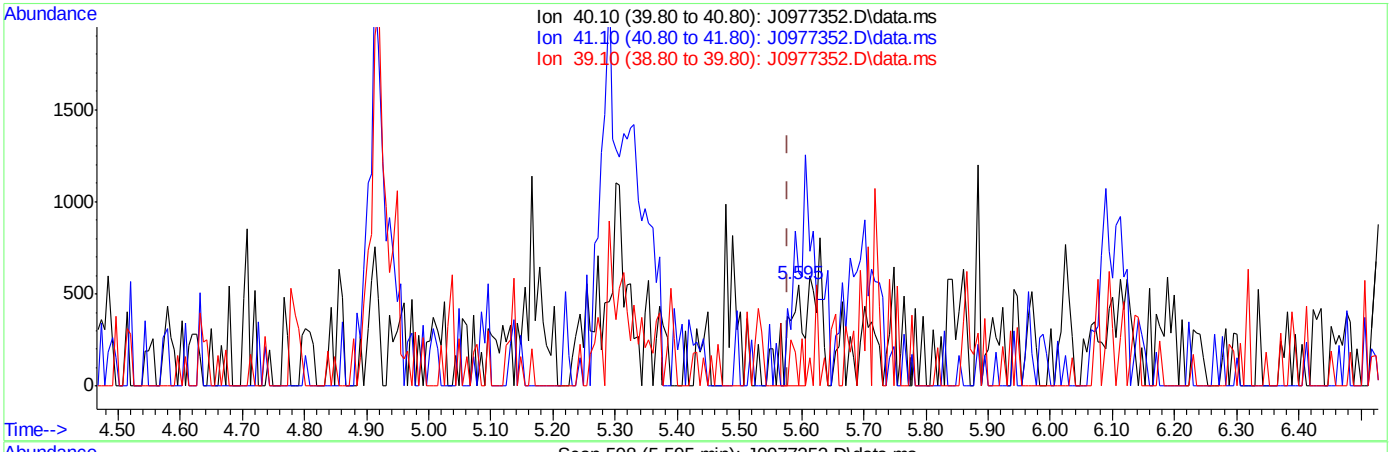
Ion	Exp%	Act%
40.10	100	100
41.10	184.40	0.00#
39.10	30.10	0.00#
0.00	0.00	0.00

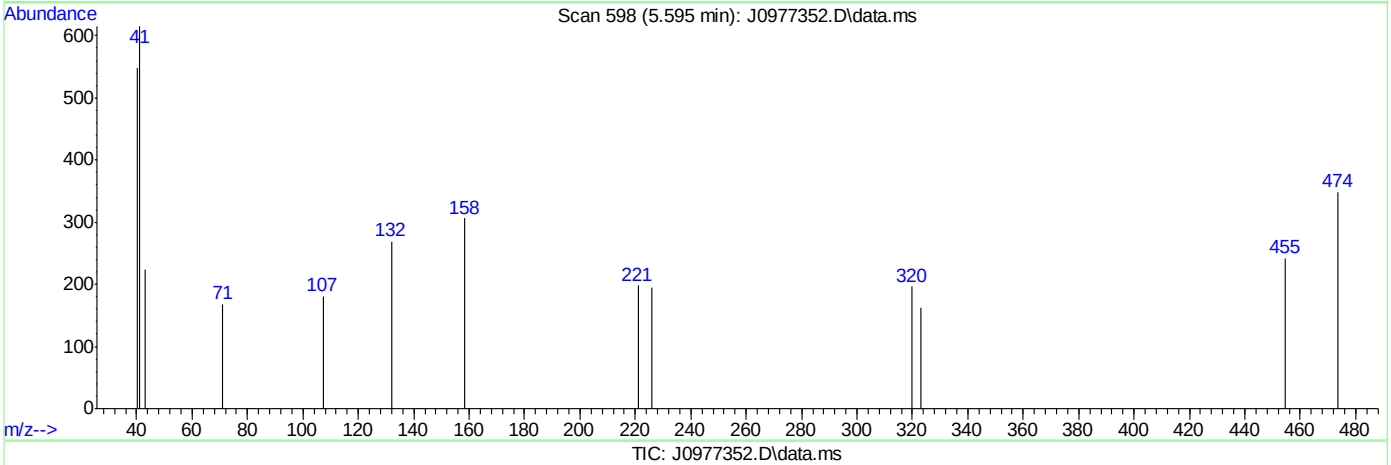
SGS ACCUTEST FA34891

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\062116\
Data File : J0977352.D
Acq On : 21 Jun 2016 8:38 am
Operator : darshnap
Sample : ic5340-1 Inst : MSVOA6
Misc : MS34179,vj5340,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 21 10:48:12 2016
Quant Method : C:\msdchem\1\methods\MSJ062116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Mon Jun 20 14:13:55 2016
Response via : Initial Calibration





TIC: J0977352.D\data.ms

(22) Acetonitrile

5.595min (+0.017) 6.00ug/L m

response 788

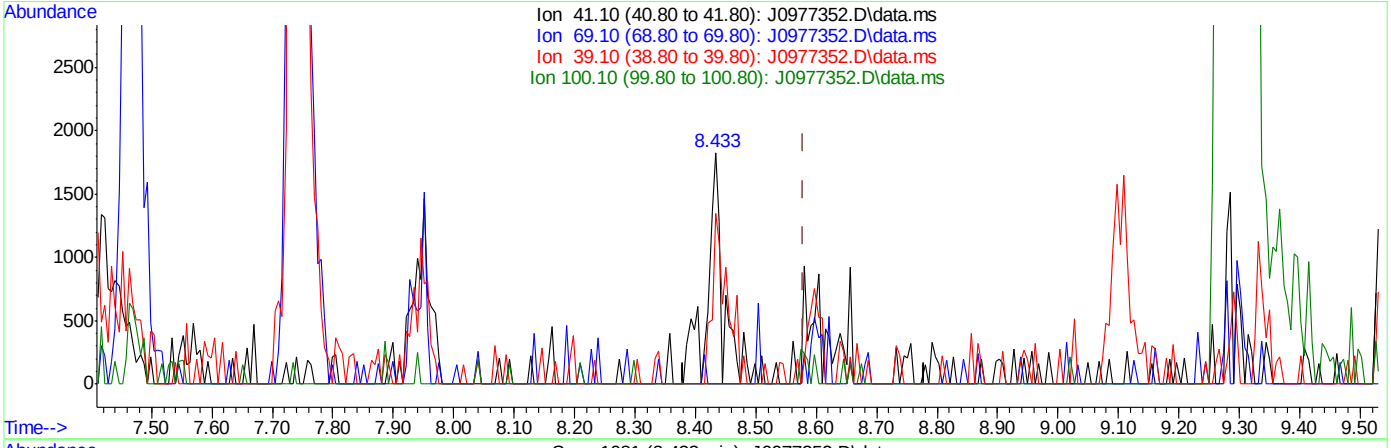
Ion	Exp%	Act%
40.10	100	100
41.10	184.40	112.02#
39.10	30.10	0.00#
0.00	0.00	0.00

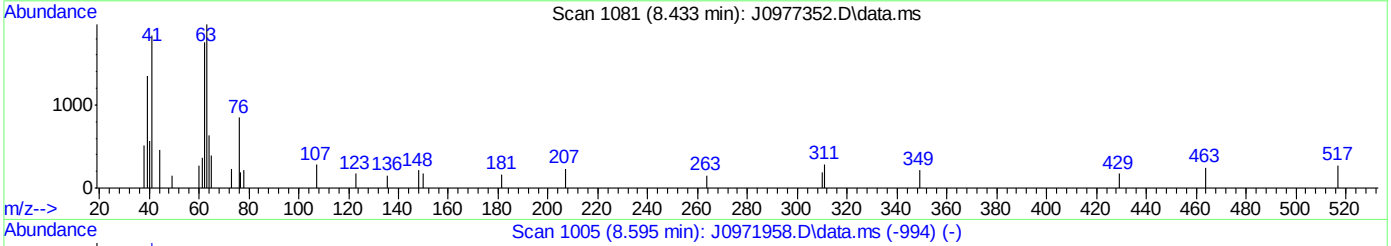
SGS ACCUTEST FA34891

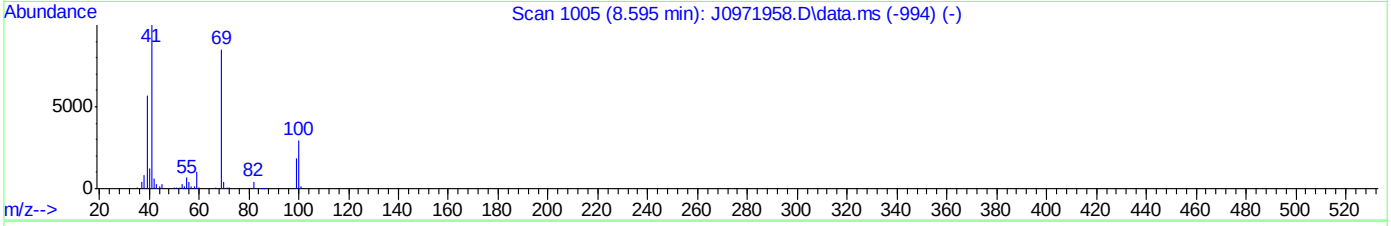
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\062116\
Data File : J0977352.D
Acq On : 21 Jun 2016 8:38 am
Operator : darshnap
Sample : ic5340-1 Inst : MSVOA6
Misc : MS34179,vj5340,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 21 10:48:12 2016
Quant Method : C:\msdchem\1\methods\MSJ062116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Mon Jun 20 14:13:55 2016
Response via : Initial Calibration







TIC: J0977352.D\data.ms

(53) Methyl methacrylate

8.433min (-0.147) 1.19ug/L

response 2502

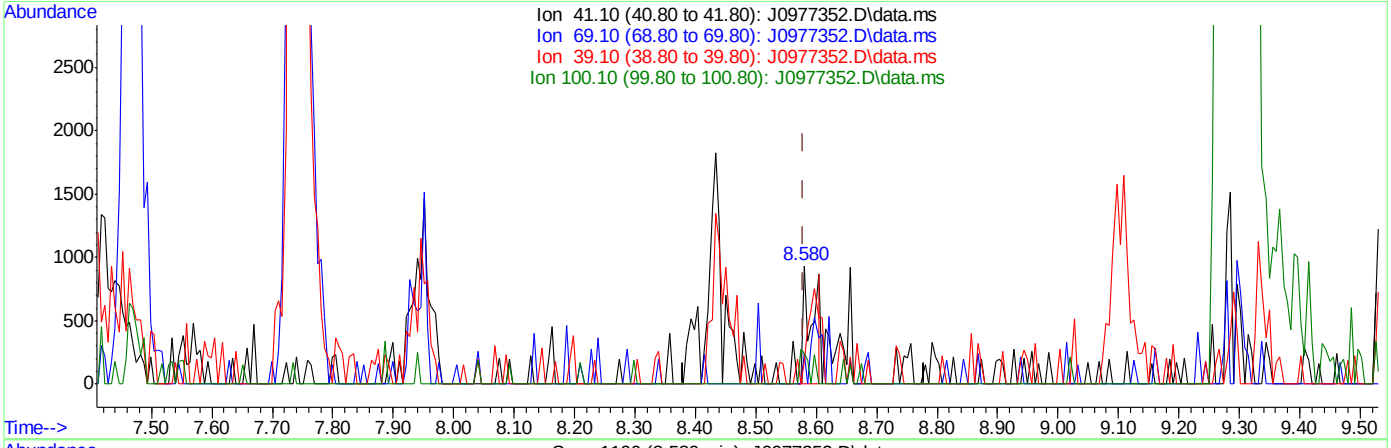
Ion	Exp%	Act%
41.10	100	100
69.10	73.50	0.00#
39.10	56.40	73.80
100.10	27.10	0.00#

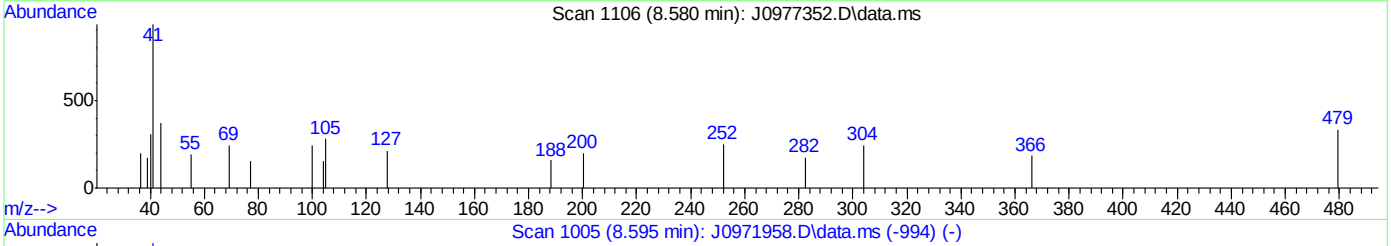
SGS ACCUTEST FA34891

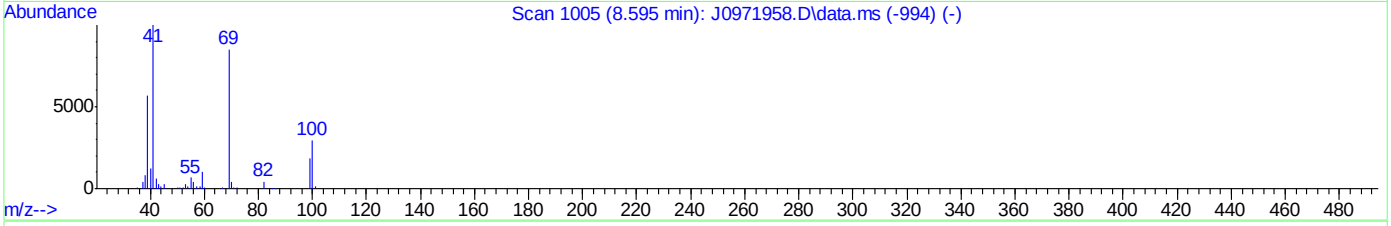
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\062116\
Data File : J0977352.D
Acq On : 21 Jun 2016 8:38 am
Operator : darshnap
Sample : ic5340-1 Inst : MSVOA6
Misc : MS34179,vj5340,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 21 10:48:12 2016
Quant Method : C:\msdchem\1\methods\MSJ062116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Mon Jun 20 14:13:55 2016
Response via : Initial Calibration







TIC: J0977352.D\data.ms

(53) Methyl methacrylate

8.580min (-0.000) 0.52ug/L m

response 1092

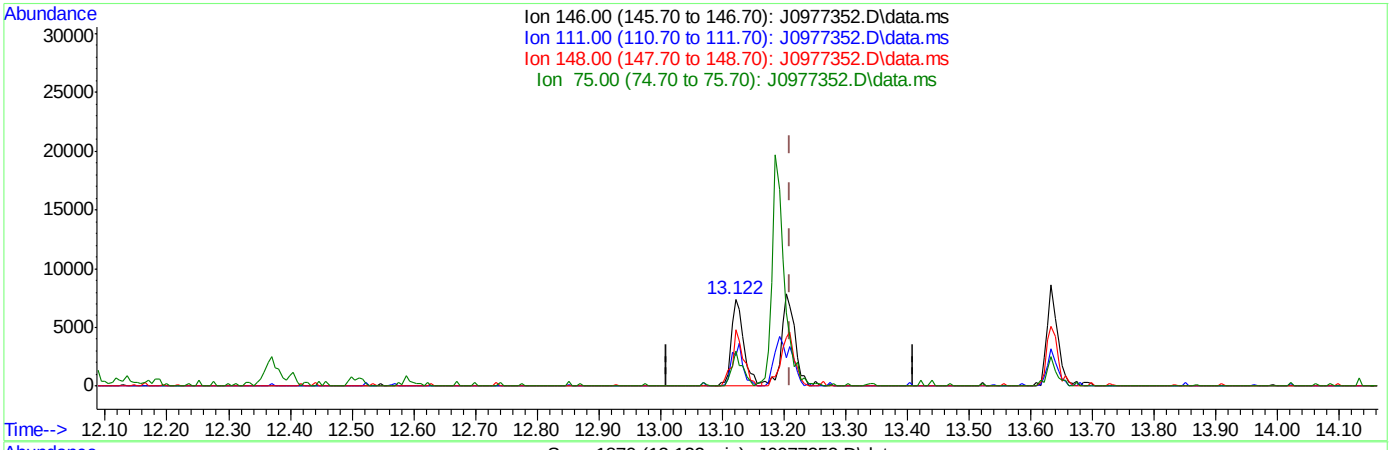
Ion	Exp%	Act%
41.10	100	100
69.10	73.50	26.31#
39.10	56.40	18.82#
100.10	27.10	26.10

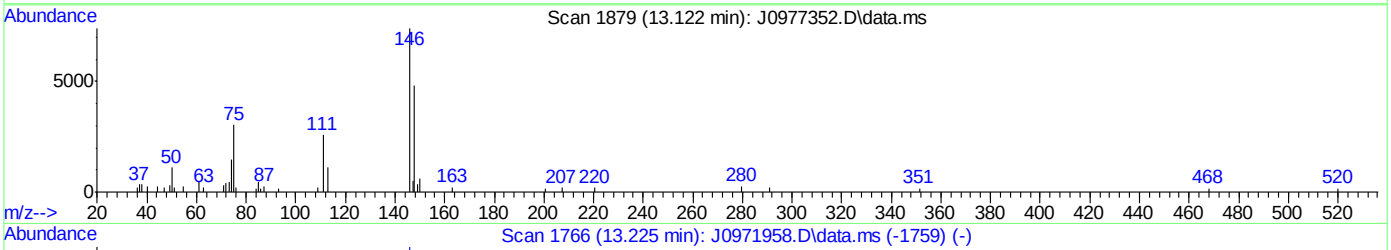
SGS ACCUTEST FA34891

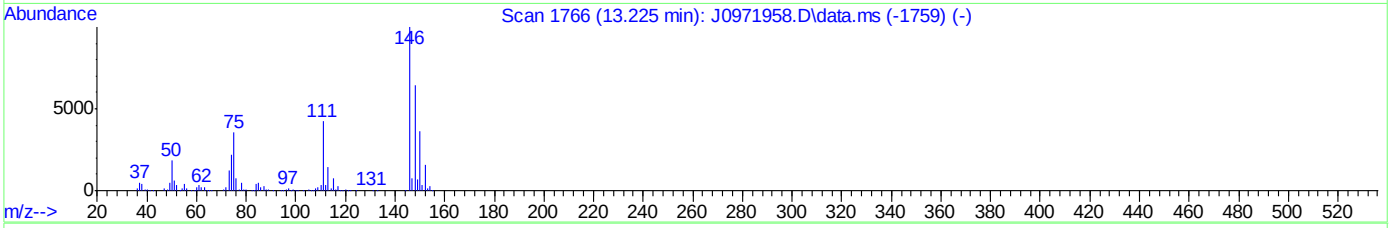
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\062116\
Data File : J0977352.D
Acq On : 21 Jun 2016 8:38 am
Operator : darshnap
Sample : ic5340-1 Inst : MSVOA6
Misc : MS34179,vj5340,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 21 10:48:12 2016
Quant Method : C:\msdchem\1\methods\MSJ062116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Mon Jun 20 14:13:55 2016
Response via : Initial Calibration







TIC: J0977352.D\data.ms

(97) 1,4-Dichlorobenzene

13.122min (-0.088) 1.43ug/L

response 10394

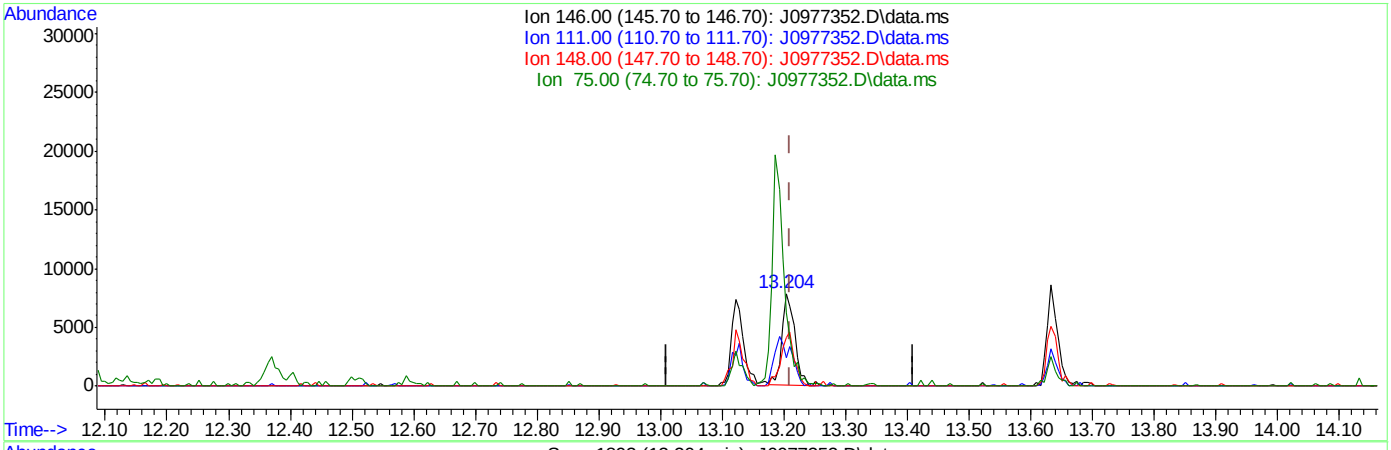
Ion	Exp%	Act%
146.00	100	100
111.00	38.20	34.68
148.00	60.20	64.90
75.00	33.00	40.82

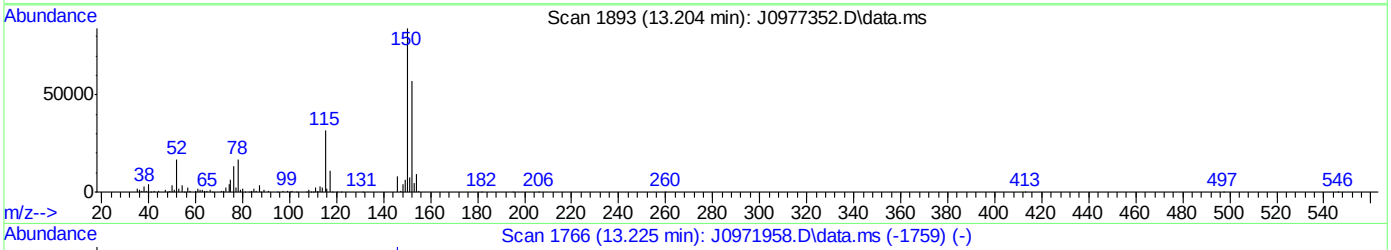
SGS ACCUTEST FA34891

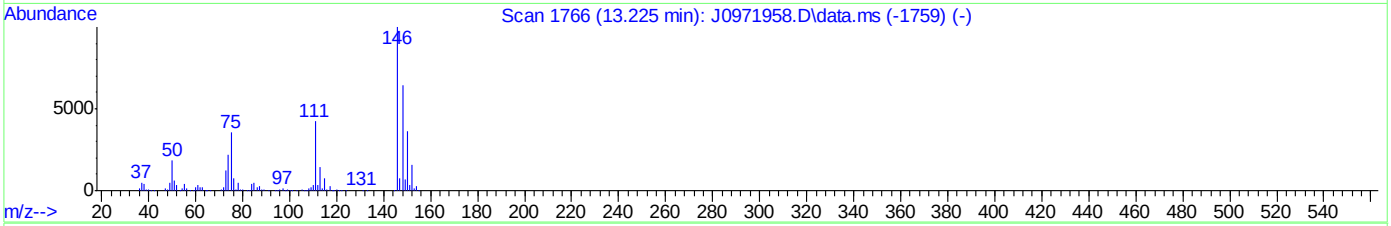
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\062116\
Data File : J0977352.D
Acq On : 21 Jun 2016 8:38 am
Operator : darshnap
Sample : ic5340-1 Inst : MSVOA6
Misc : MS34179,vj5340,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 21 10:48:12 2016
Quant Method : C:\msdchem\1\methods\MSJ062116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Mon Jun 20 14:13:55 2016
Response via : Initial Calibration







TIC: J0977352.D\data.ms

(97) 1,4-Dichlorobenzene

13.204min (-0.006) 1.56ug/L m

response 11318

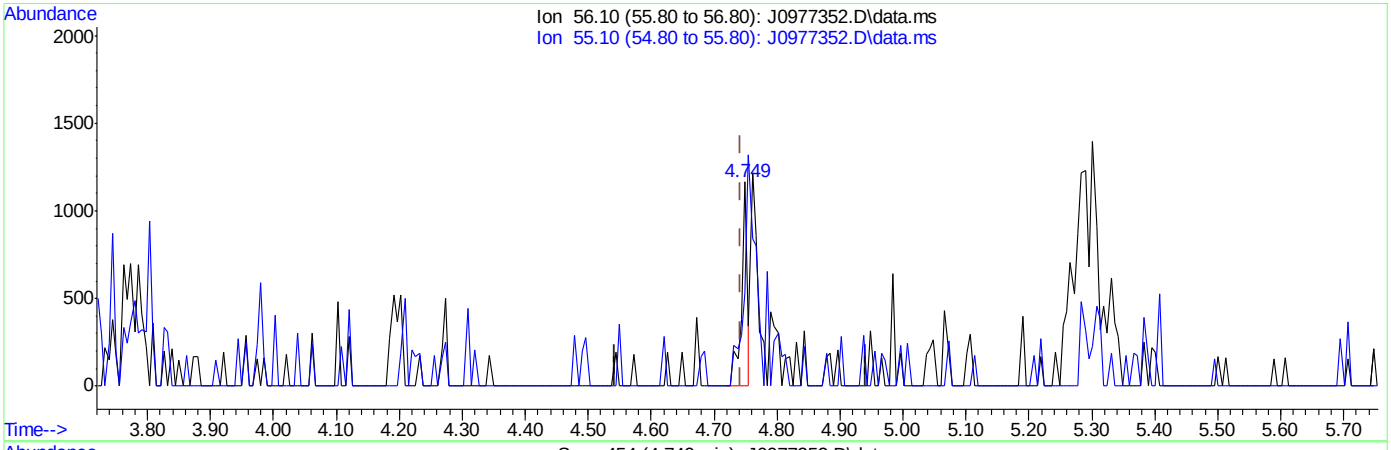
Ion	Exp%	Act%
146.00	100	100
111.00	38.20	30.50
148.00	60.20	52.36
75.00	33.00	79.68#

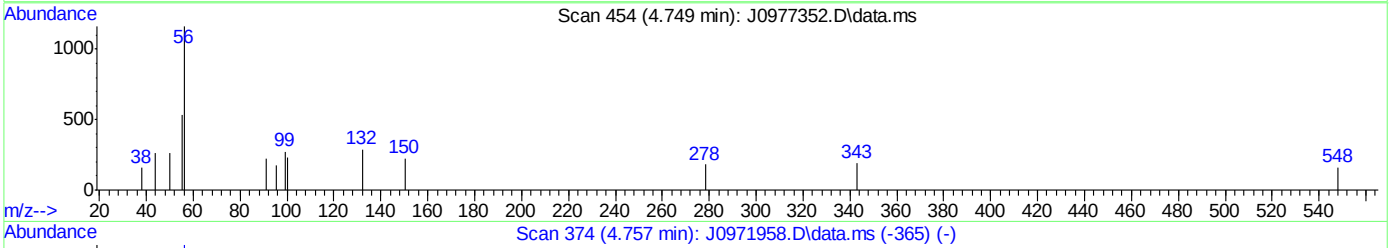
SGS ACCUTEST FA34891

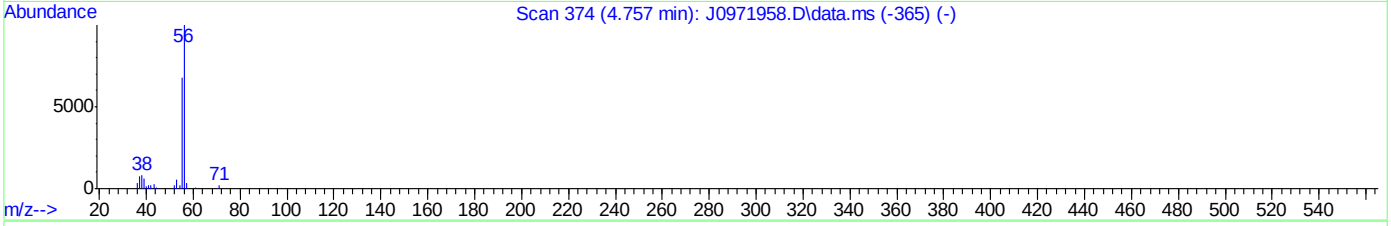
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\062116\
Data File : J0977352.D
Acq On : 21 Jun 2016 8:38 am
Operator : darshnap
Sample : ic5340-1 Inst : MSVOA6
Misc : MS34179,vj5340,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 21 10:48:12 2016
Quant Method : C:\msdchem\1\methods\MSJ062116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Mon Jun 20 14:13:55 2016
Response via : Initial Calibration







TIC: J0977352.D\data.ms

(108) acrolein

4.749min (+0.006) 2.09ug/L

response 790

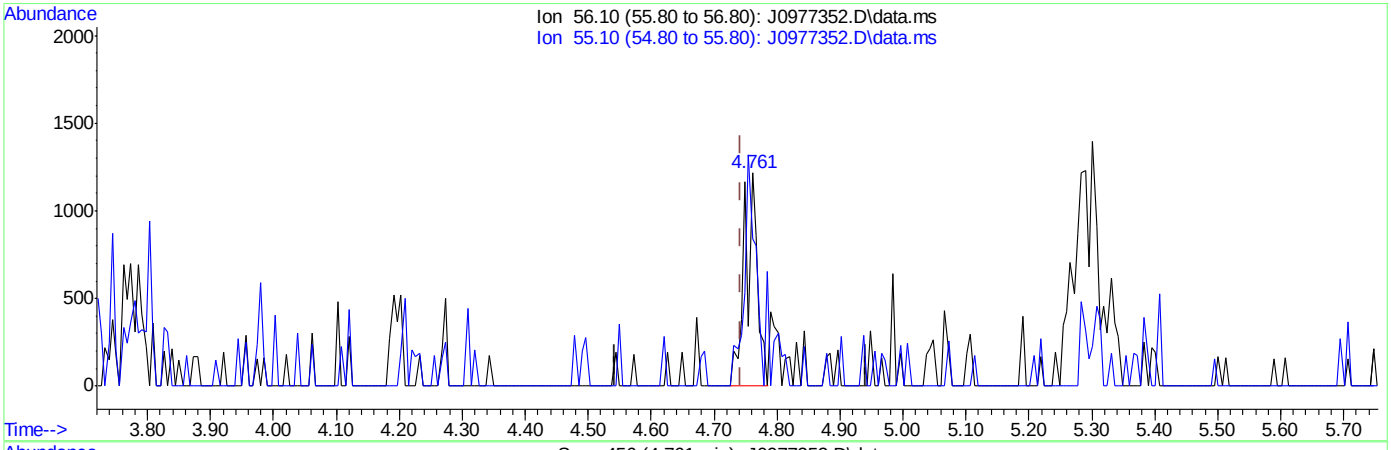
Ion	Exp%	Act%
56.10	100	100
55.10	55.10	45.66
0.00	0.00	0.00
0.00	0.00	0.00

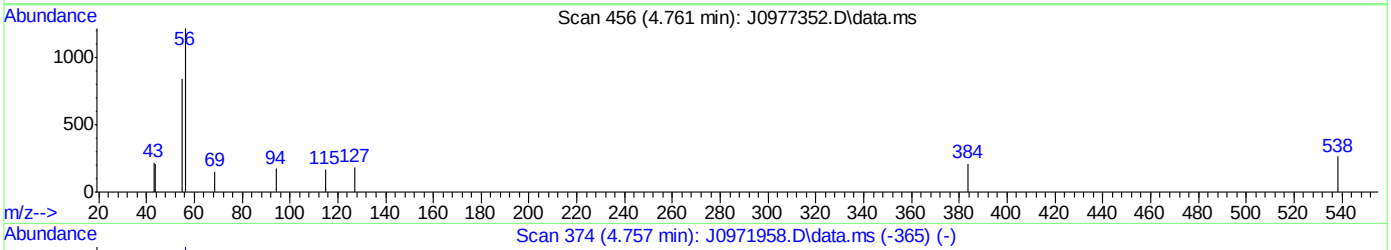
SGS ACCUTEST FA34891

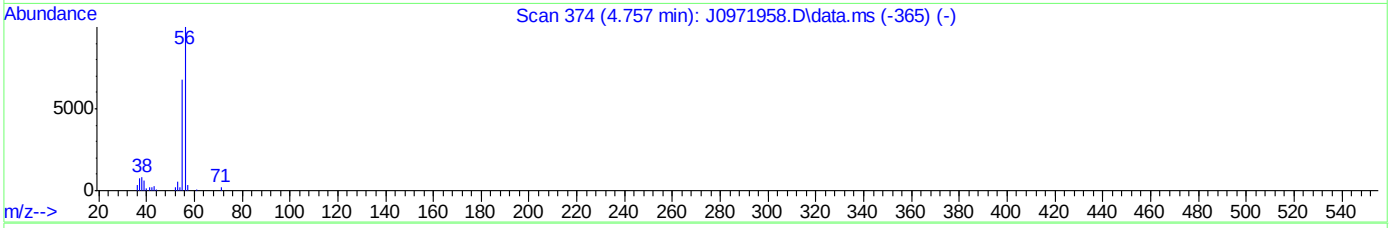
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\062116\
Data File : J0977352.D
Acq On : 21 Jun 2016 8:38 am
Operator : darshnap
Sample : ic5340-1 Inst : MSVOA6
Misc : MS34179,vj5340,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 21 10:48:12 2016
Quant Method : C:\msdchem\1\methods\MSJ062116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Mon Jun 20 14:13:55 2016
Response via : Initial Calibration







TIC: J0977352.D\data.ms

(108) acrolein

4.761min (+0.018) 4.55ug/L m

response 1719

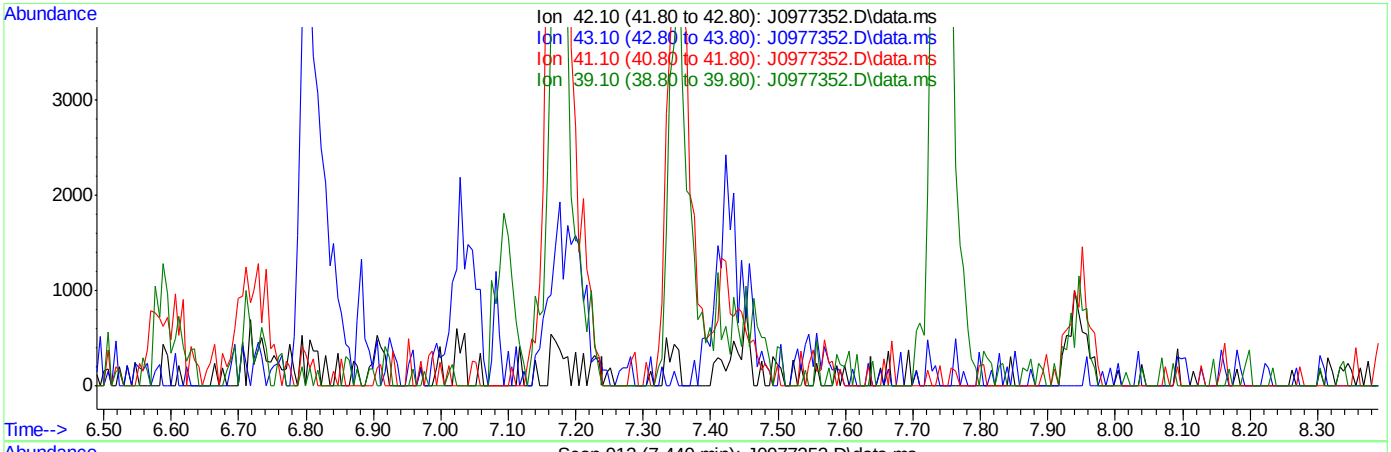
Ion	Exp%	Act%
56.10	100	100
55.10	55.10	69.36
0.00	0.00	0.00
0.00	0.00	0.00

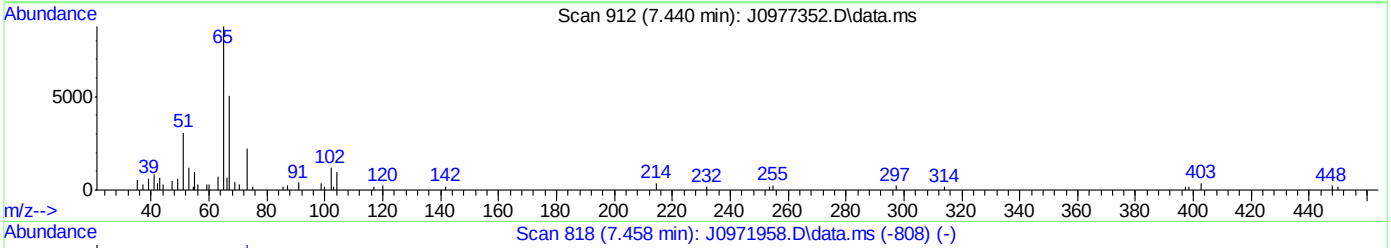
SGS ACCUTEST FA34891

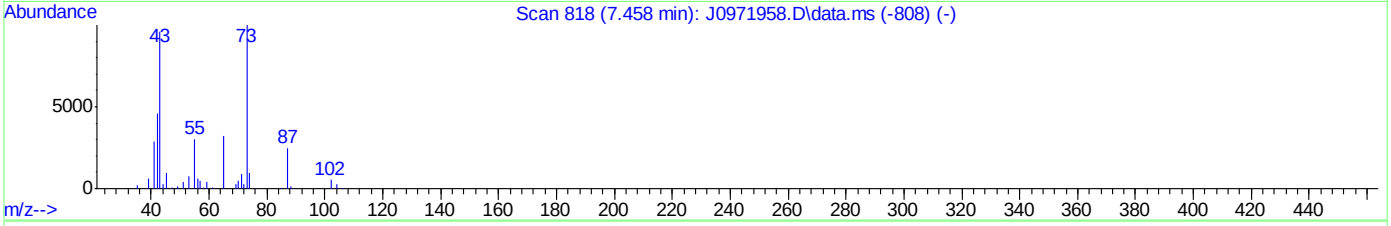
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\062116\
Data File : J0977352.D
Acq On : 21 Jun 2016 8:38 am
Operator : darshnap
Sample : ic5340-1 Inst : MSVOA6
Misc : MS34179,vj5340,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 21 10:48:12 2016
Quant Method : C:\msdchem\1\methods\MSJ062116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Mon Jun 20 14:13:55 2016
Response via : Initial Calibration







TIC: J0977352.D\data.ms

(111) Isobutyl alcohol

7.440min (-7.440) 0.00ug/L

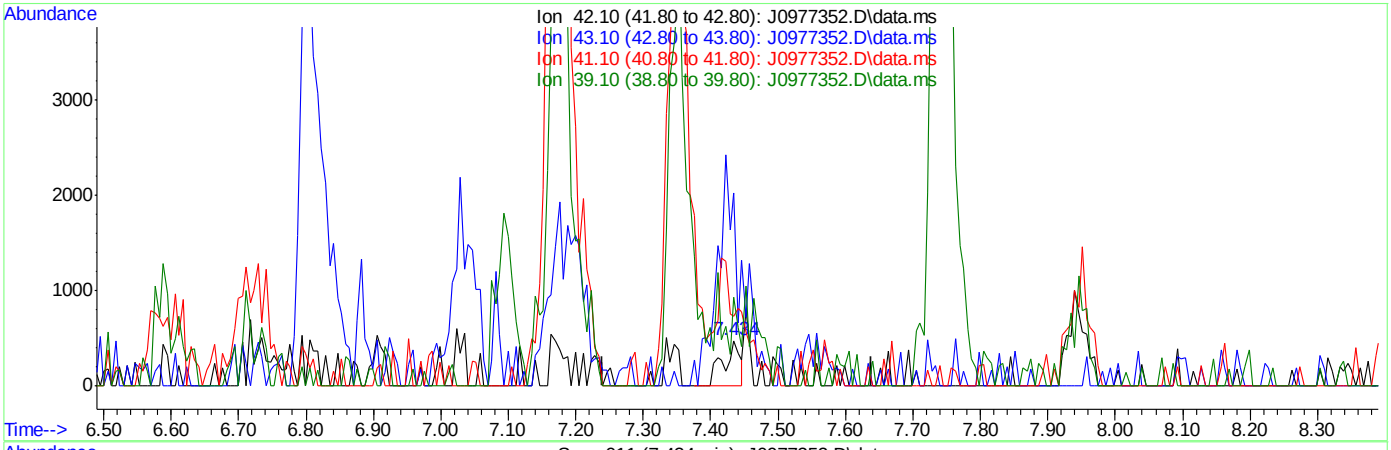
response 0

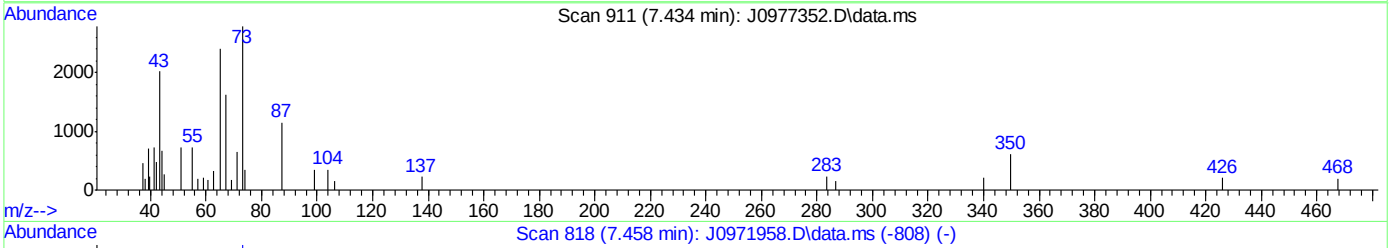
Ion	Exp%	Act%
42.10	100	0.00
43.10	231.90	0.00#
41.10	122.40	0.00#
39.10	52.60	0.00#

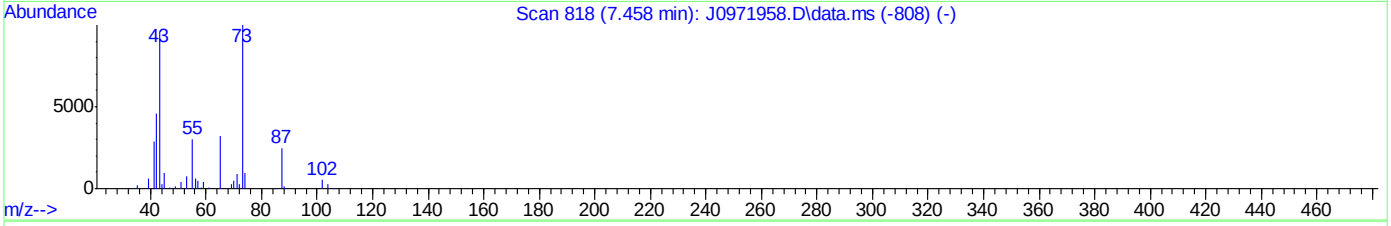
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\062116\
Data File : J0977352.D
Acq On : 21 Jun 2016 8:38 am
Operator : darshnap
Sample : ic5340-1 Inst : MSVOA6
Misc : MS34179,vj5340,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 21 10:48:12 2016
Quant Method : C:\msdchem\1\methods\MSJ062116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Mon Jun 20 14:13:55 2016
Response via : Initial Calibration







TIC: J0977352.D\data.ms

(111) Isobutyl alcohol

7.434min (-0.006) 13.47ug/L m

response 818

Ion	Exp%	Act%
42.10	100	100
43.10	231.90	425.74#
41.10	122.40	153.16#
39.10	52.60	149.16#

Manual Integrations APPROVED (compounds with "m" flag)
Juan Garcia
06/22/16 11:19

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\062116\
Data File : J0977353.D
Acq On : 21 Jun 2016 9:01 am
Operator : darshnap
Sample : ic5340-2 Inst : MSVOA6
Misc : MS34179,vj5340,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 21 10:53:28 2016
Quant Method : C:\msdchem\1\methods\MSJ062116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Mon Jun 20 14:13:55 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.740	96	510460	50.00	ug/L	0.00
56) Chlorobenzene-d5	10.830	117	360115	50.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	13.192	152	195883	50.00	ug/L	0.00
106) Tert Butyl Alcohol-d10	5.290	65	39837	250.00	ug/L	0.00
System Monitoring Compounds						
36) Dibromofluoromethane	6.911	113	133603	51.66	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 103.32%			
46) 1,2-Dichloroethane-d4	7.469	65	206421	58.43	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 116.86%			
57) Toluene-d8	9.285	98	497863	52.57	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 105.14%			
79) 4-Bromofluorobenzene	12.041	95	188999	50.51	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 101.02%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.681	85	18941m	6.64	ug/L	
3) Chloromethane	2.881	50	21805	6.66	ug/L	81
4) Vinyl Chloride	3.016	62	19714	6.70	ug/L	87
5) 1,3-Butadiene	3.033	54	12891	5.44	ug/L #	85
6) Bromomethane	3.445	94	17815	7.66	ug/L	96
7) Chloroethane	3.597	64	12725	6.65	ug/L	85
8) Trichlorofluoromethane	3.803	101	34111	7.28	ug/L	90
9) Ethyl Ether	4.103	59	11513	5.55	ug/L	88
10) 1,2-Dichlorotrifluoroe...	4.332	67	15847	5.97	ug/L #	74
11) 1,1-Dichloroethene	4.391	61	20864	5.86	ug/L	81
12) Freon 113	4.443	101	12794	5.94	ug/L	88
13) Carbon Disulfide	4.461	76	41901	5.71	ug/L	70
14) Iodomethane	4.573	142	20868	5.51	ug/L	97
15) Allyl chloride	4.925	41	17140	4.61	ug/L	87
16) Methylene Chloride	5.031	49	22254	6.16	ug/L	86
17) Acetone	5.060	58	4940	30.19	ug/L	97
18) Methyl acetate	5.172	74	7700	27.25	ug/L #	54
19) trans-1,2-Dichloroethene	5.225	61	17825	5.22	ug/L	86
20) Hexane	5.278	56	12040	5.75	ug/L #	76
21) Methyl Tert Butyl Ether	5.325	73	41310	5.71	ug/L	90
22) Acetonitrile	5.589	40	7000	63.22	ug/L #	34
23) Di-isopropyl ether	5.701	45	51919	5.89	ug/L	96
24) Chloroprene	5.865	53	21001	4.71	ug/L	85
25) 1,1-Dichloroethane	5.889	63	27089	5.90	ug/L	99
26) Acrylonitrile	5.918	53	19824	28.16	ug/L	81
27) ETBE	6.106	59	53509	5.77	ug/L	96
28) Vinyl acetate	6.094	43	142052	27.15	ug/L	90
29) cis-1,2-Dichloroethene	6.465	96	13935	4.71	ug/L	90
30) 2,2-Dichloropropane	6.588	77	20387	5.07	ug/L	82
31) Bromochloromethane	6.670	128	7318	5.66	ug/L	85
32) Cyclohexane	6.723	56	23763	5.82	ug/L #	87
33) Chloroform	6.729	83	28261	5.45	ug/L	91
34) Ethyl acetate	6.794	43	54102	29.97	ug/L	99

SGS ACCUTEST FA34891

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\062116\
Data File : J0977353.D
Acq On : 21 Jun 2016 9:01 am
Operator : darshnap
Sample : ic5340-2 Inst : MSVOA6
Misc : MS34179,vj5340,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 21 10:53:28 2016
Quant Method : C:\msdchem\1\methods\MSJ062116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Mon Jun 20 14:13:55 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
35) Tetrahydrofuran	6.905	42	4339	8.73	ug/L		80
37) Carbon Tetrachloride	6.923	117	20794	5.79	ug/L		77
38) 1,1,1-Trichloroethane	6.982	97	23865	5.33	ug/L		97
39) 2-Butanone	7.011	43	20263	28.35	ug/L		73
40) 1,1-Dichloropropene	7.093	75	17705	5.14	ug/L		92
41) tert-Butyl Formate	7.170	59	73788	34.56	ug/L	#	60
42) Propionitrile	7.322	54	13091	50.43	ug/L	#	65
43) Methacrylonitrile	7.346	41	62909	54.70	ug/L		95
44) Benzene	7.346	78	52584	5.76	ug/L		92
45) TAME	7.416	73	42286	5.62	ug/L		87
47) 1,2-Dichloroethane	7.534	62	25464	6.23	ug/L		92
48) Trichloroethene	7.922	95	13145	5.03	ug/L		94
49) Methylcyclohexane	7.939	83	23428	5.70	ug/L	#	78
50) Dibromomethane	8.351	93	7480	4.95	ug/L		97
51) 1,2-Dichloropropane	8.433	63	13207	5.12	ug/L		89
52) Bromodichloromethane	8.480	83	21204	6.01	ug/L	#	86
53) Methyl methacrylate	8.580	41	9144	5.19	ug/L		83
54) 2-Chloroethyl vinyl ether	8.997	63	34326	23.14	ug/L		96
55) cis-1,3-Dichloropropene	9.097	75	23607	5.73	ug/L		89
58) Toluene	9.344	91	57623	5.35	ug/L		95
59) 2-Nitropropane	9.543	41	16501	30.78	ug/L		84
60) 4-Methyl-2-pentanone	9.661	43	41971	23.59	ug/L		92
61) trans-1,3-Dichloropropene	9.726	75	18180	5.33	ug/L		88
62) Tetrachloroethene	9.737	166	13665	5.65	ug/L		83
63) Ethyl methacrylate	9.825	69	12651	4.59	ug/L		95
64) 1,1,2-Trichloroethane	9.890	83	11004	6.14	ug/L		94
65) Dibromochloromethane	10.084	129	14128	5.69	ug/L		95
66) 1,3-Dichloropropane	10.166	76	22151	6.02	ug/L		96
67) 1,2-Dibromoethane	10.354	107	13252	6.45	ug/L		96
68) 2-hexanone	10.484	43	26306	21.63	ug/L		97
69) 1-Chlorohexane	10.777	91	18217	5.43	ug/L		87
70) Ethylbenzene	10.848	91	66529	5.37	ug/L		98
71) Chlorobenzene	10.854	112	39577	6.13	ug/L		87
72) 1,1,1,2-Tetrachloroethane	10.901	131	12327	4.89	ug/L		90
73) m,p-Xylene	10.983	91	106522	11.15	ug/L		98
74) o-Xylene	11.424	91	55235	5.41	ug/L		92
75) Styrene	11.477	104	42242	5.51	ug/L		98
76) Bromoform	11.535	173	7623	5.09	ug/L		83
77) Isopropylbenzene	11.729	105	64340	5.55	ug/L		96
80) cis-1,4-Dichloro-2-butene	12.076	53	4910	5.63	ug/L	#	80
81) n-Propylbenzene	12.146	91	76577	5.33	ug/L		92
82) Bromobenzene	12.170	156	16861	5.31	ug/L		96
83) 1,1,2,2-Tetrachloroethane	12.211	83	15420	5.83	ug/L		86
84) 1,3,5-Trimethylbenzene	12.328	105	53086	4.96	ug/L		96
85) 2-Chlorotoluene	12.334	91	55240	5.35	ug/L		93
86) trans-1,4-Dichloro-2-B...	12.393	53	4210	5.44	ug/L	#	61
87) 1,2,3-Trichloropropane	12.370	110	4719	6.26	ug/L		93
88) Cyclohexanone	12.428	55	1466	22.43	ug/L	#	80
89) 4-Chlorotoluene	12.505	91	52713	5.57	ug/L		84
90) a-Methyl Styrene	12.599	118	25062	4.37	ug/L		98

SGS ACCUTEST FA34891

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\062116\
Data File : J0977353.D
Acq On : 21 Jun 2016 9:01 am
Operator : darshnap
Sample : ic5340-2 Inst : MSVOA6
Misc : MS34179,vj5340,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 21 10:53:28 2016
Quant Method : C:\msdchem\1\methods\MSJ062116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Mon Jun 20 14:13:55 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
91) tert-Butylbenzene	12.675	91	34071	5.62	ug/L	89
92) 1,2,4-Trimethylbenzene	12.740	105	58642	5.26	ug/L	89
93) Pentachloroethane	12.722	167	8345	4.20	ug/L #	87
94) sec-Butylbenzene	12.857	105	67929	5.38	ug/L	95
95) 4-Isopropyltoluene	12.987	119	58156	5.37	ug/L	97
96) 1,3-Dichlorobenzene	13.122	146	28828	5.17	ug/L	92
97) 1,4-Dichlorobenzene	13.204	146	29762	5.29	ug/L	88
98) n-Butylbenzene	13.421	92	32443	5.18	ug/L	95
99) Benzyl Chloride	13.433	126	4285	4.46	ug/L #	81
100) 1,2-Dichlorobenzene	13.627	146	28198	5.37	ug/L	86
101) 1,2-Dibromo-3-Chloropr...	14.373	75	2451	5.91	ug/L	84
102) Hexachlorobutadiene	14.914	225	11560	5.15	ug/L	83
103) 1,2,4-Trichlorobenzene	14.961	180	21144	5.30	ug/L	92
104) Naphthalene	15.249	128	30353	4.84	ug/L	92
105) 1,2,3-Trichlorobenzene	15.413	180	15872	4.79	ug/L	97
107) Ethanol	4.273	45	1859m	96.48	ug/L	
108) acrolein	4.749	56	11107	31.56	ug/L	92
109) Tert Butyl Alcohol	5.378	59	13075	62.34	ug/L	86
110) tert Amyl alcohol	7.557	59	8587	57.15	ug/L	85
111) Isobutyl alcohol	7.440	42	5600	99.16	ug/L #	65
112) 1,4-Dioxane	8.674	88	2302m	139.49	ug/L	
113) 3,3-Dimethyl-1-butanol	10.425	57	32803	216.73	ug/L	95

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

7.6.2

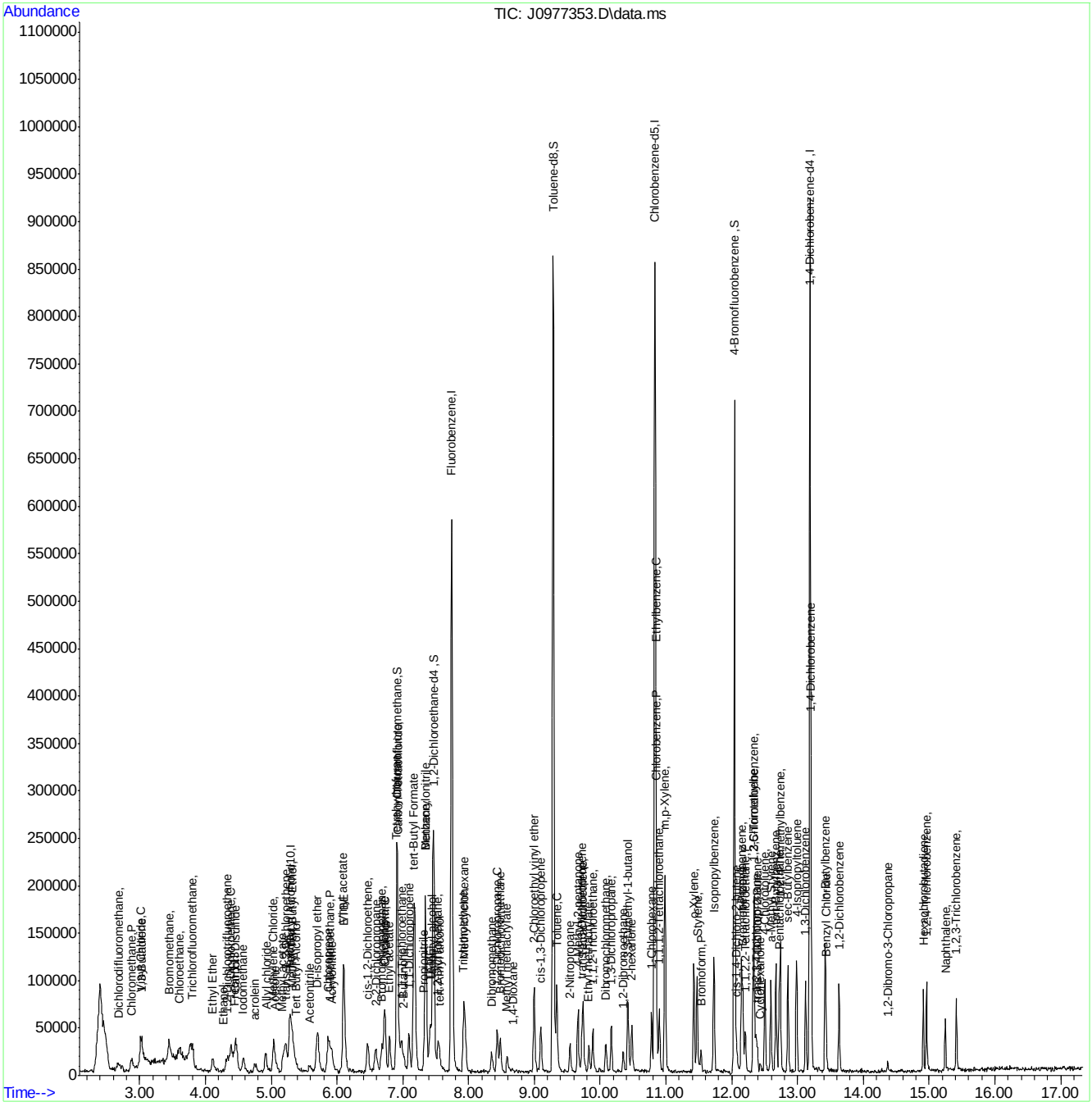
7

SGS ACCUTEST FA34891

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\062116\
Data File : J0977353.D
Acq On : 21 Jun 2016 9:01 am
Operator : darshnap
Sample : ic5340-2 Inst : MSVOA6
Misc : MS34179,vj5340,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 21 10:53:28 2016
Quant Method : C:\msdchem\1\methods\MSJ062116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Mon Jun 20 14:13:55 2016
Response via : Initial Calibration



Manual Integration Approval Summary

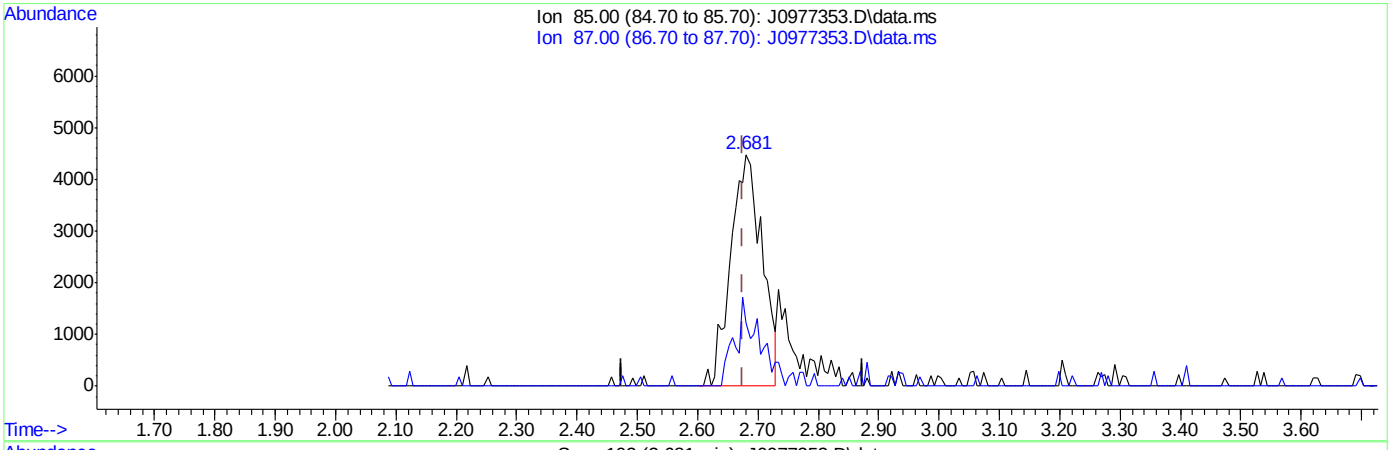
Sample Number:	VJ5340-IC5340	**Method:**	SW846 8260B
Lab FileID:	J0977353.D	**Analyst approved:**	06/22/16 10:10 Darshna Patel
Injection Time:	06/21/16 09:01	**Supervisor approved:**	06/22/16 11:19 Juan Garcia

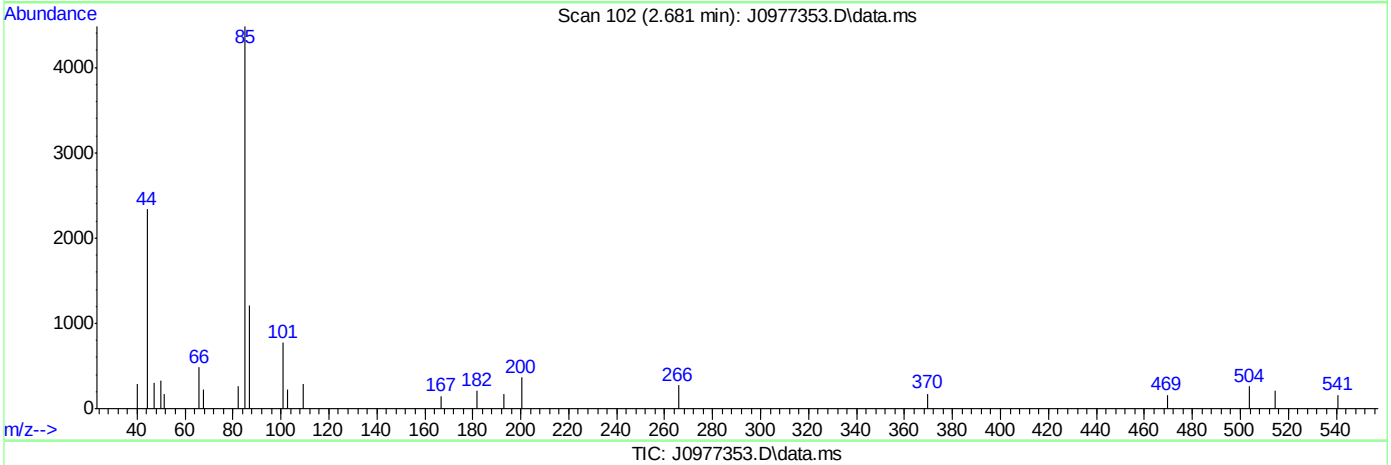
Parameter	CAS	Sig#	R.T. (min.)	Reason
Dichlorodifluoromethane	75-71-8		2.68	Split peak
Ethyl Alcohol	64-17-5		4.27	Poor instrument integration
1,4-Dioxane	123-91-1		8.67	Poor instrument integration

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\062116\
Data File : J0977353.D
Acq On : 21 Jun 2016 9:01 am
Operator : darshnap
Sample : ic5340-2 Inst : MSVOA6
Misc : MS34179,vj5340,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 21 10:48:15 2016
Quant Method : C:\msdchem\1\methods\MSJ062116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Mon Jun 20 14:13:55 2016
Response via : Initial Calibration





TIC: J0977353.D\data.ms

(2) Dichlorodifluoromethane ( )

2.681min (+0.006) 5.64ug/L

response 16064

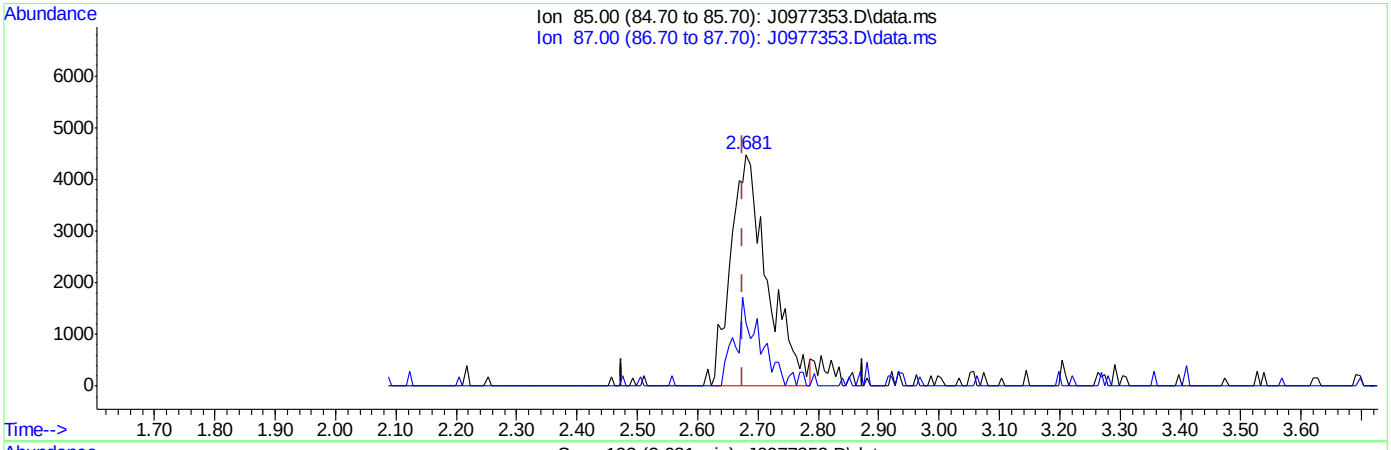
Ion	Exp%	Act%
85.00	100	100
87.00	28.80	27.09
0.00	0.00	0.00
0.00	0.00	0.00

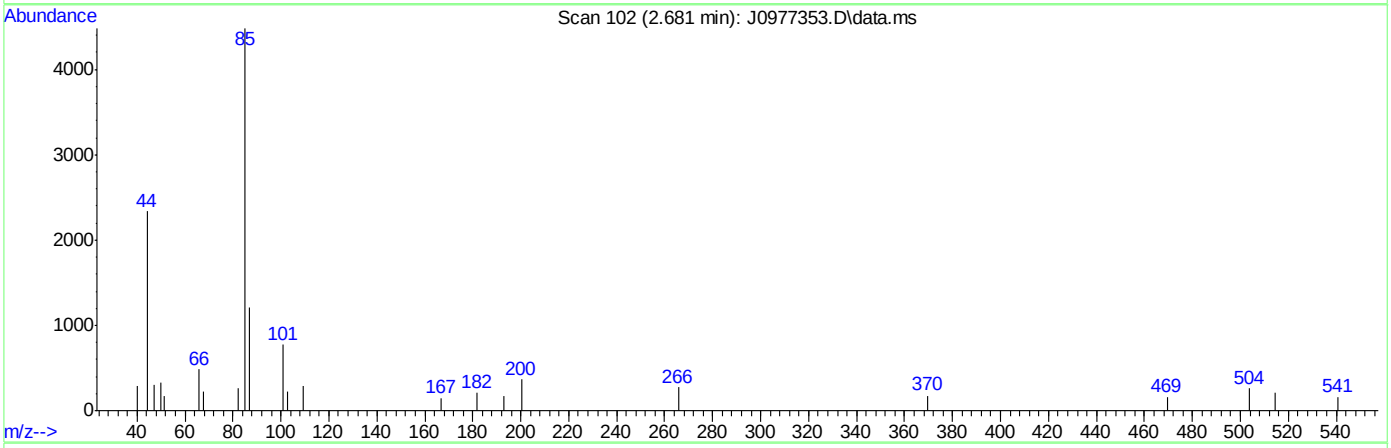
SGS ACCUTEST FA34891

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\062116\
Data File : J0977353.D
Acq On : 21 Jun 2016 9:01 am
Operator : darshnap
Sample : ic5340-2 Inst : MSVOA6
Misc : MS34179,vj5340,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 21 10:48:15 2016
Quant Method : C:\msdchem\1\methods\MSJ062116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Mon Jun 20 14:13:55 2016
Response via : Initial Calibration





TIC: J0977353.D\data.ms

(2) Dichlorodifluoromethane ( )

2.681min (+0.006) 6.64ug/L m

response 18941

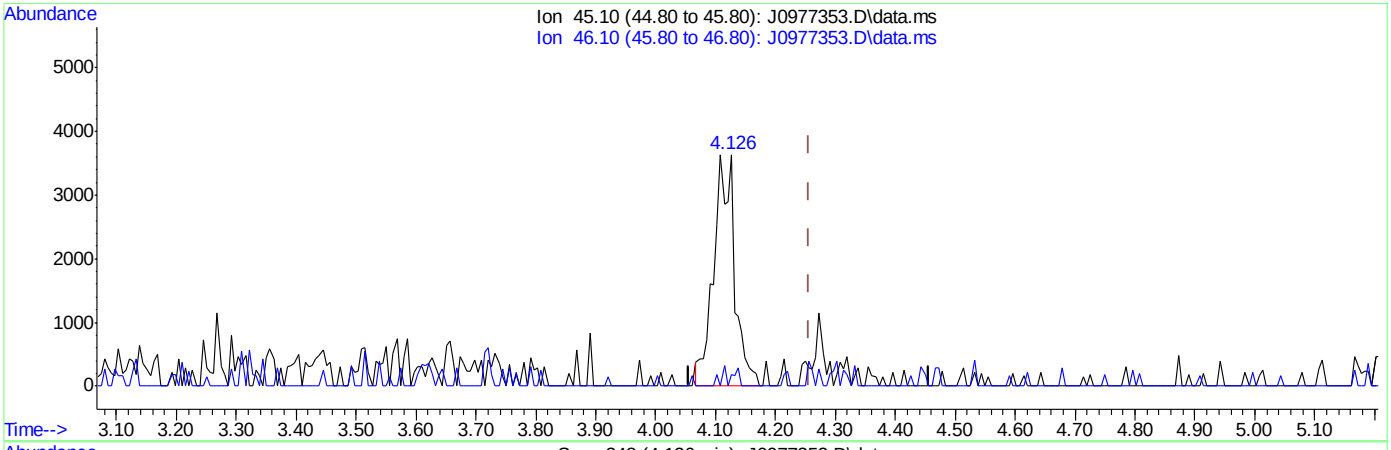
Ion	Exp%	Act%
85.00	100	100
87.00	28.80	27.09
0.00	0.00	0.00
0.00	0.00	0.00

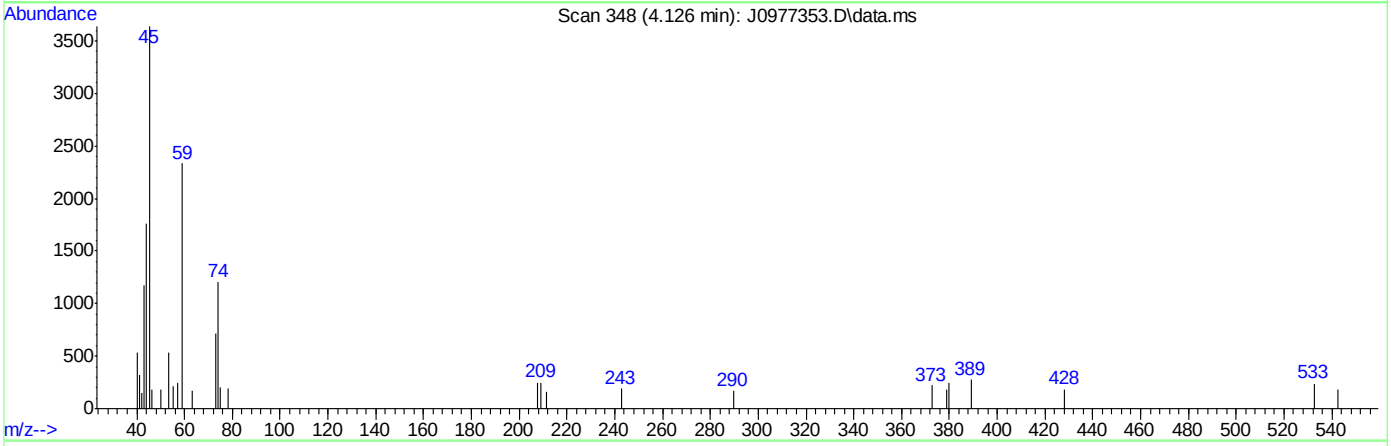
SGS ACCUTEST FA34891

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\062116\
Data File : J0977353.D
Acq On : 21 Jun 2016 9:01 am
Operator : darshnap
Sample : ic5340-2 Inst : MSVOA6
Misc : MS34179,vj5340,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 21 10:48:15 2016
Quant Method : C:\msdchem\1\methods\MSJ062116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Mon Jun 20 14:13:55 2016
Response via : Initial Calibration





TIC: J0977353.D\data.ms

(107) Ethanol

4.126min (-0.130) 450.44ug/L

response 8679

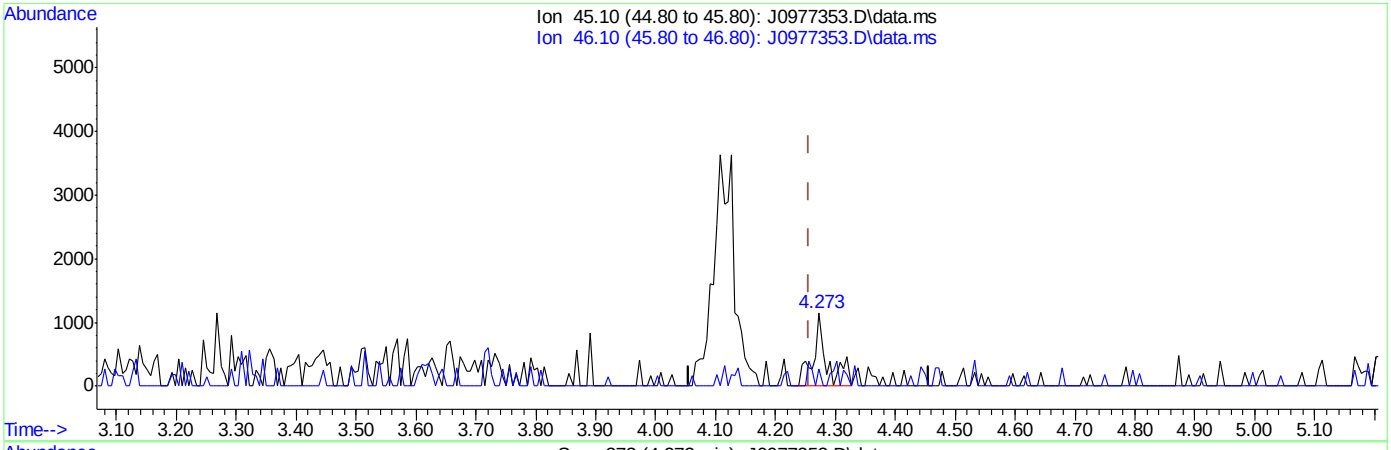
Ion	Exp%	Act%
45.10	100	100
46.10	36.70	5.14#
0.00	0.00	0.00
0.00	0.00	0.00

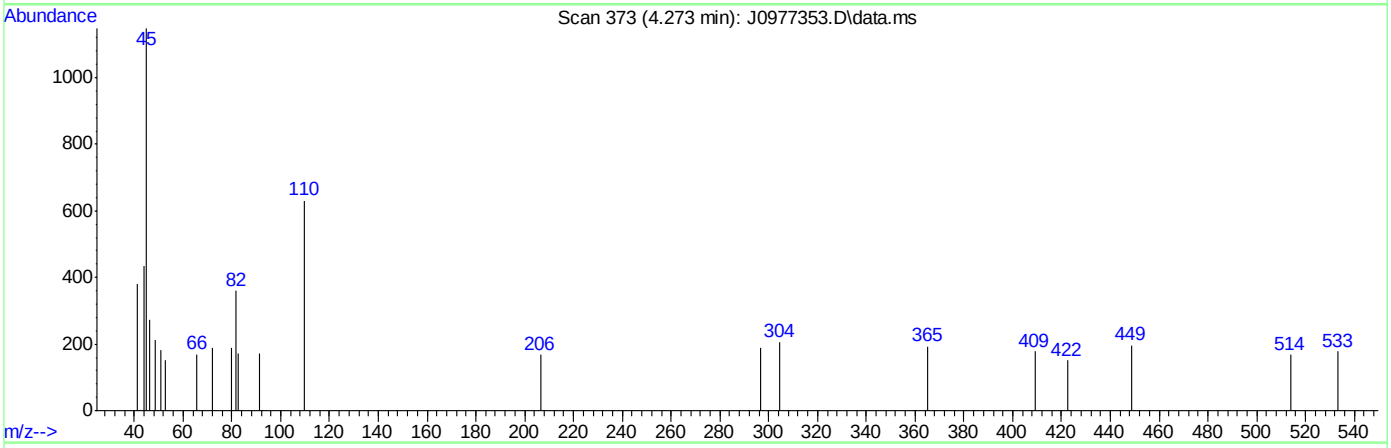
SGS ACCUTEST FA34891

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\062116\
Data File : J0977353.D
Acq On : 21 Jun 2016 9:01 am
Operator : darshnap
Sample : ic5340-2 Inst : MSVOA6
Misc : MS34179,vj5340,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 21 10:48:15 2016
Quant Method : C:\msdchem\1\methods\MSJ062116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Mon Jun 20 14:13:55 2016
Response via : Initial Calibration





TIC: J0977353.D\data.ms

(107) Ethanol

4.273min (+0.017) 96.48ug/L m

response 1859

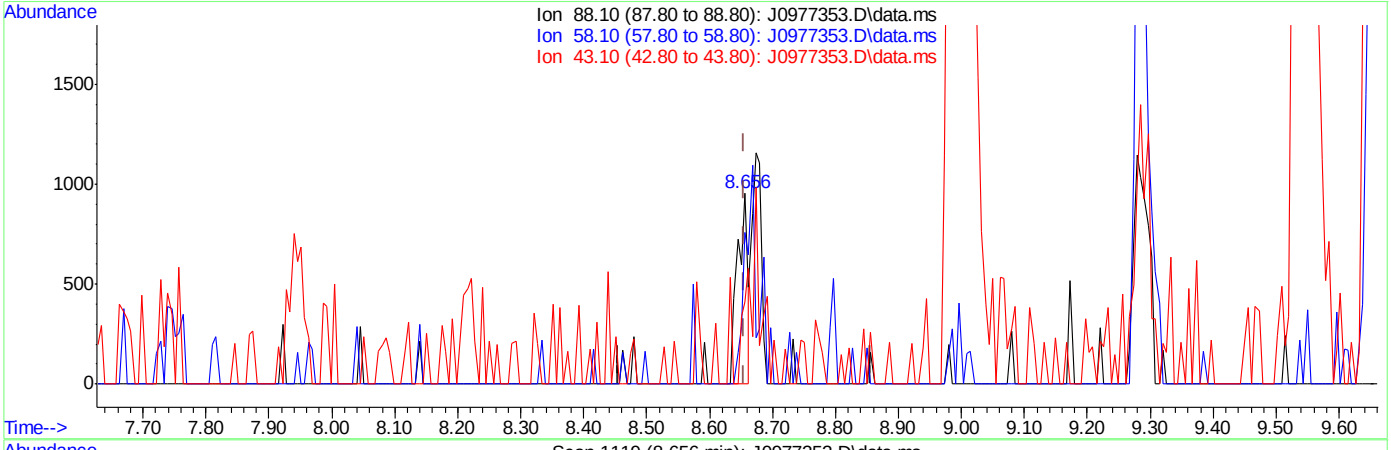
Ion	Exp%	Act%
45.10	100	100
46.10	36.70	23.78
0.00	0.00	0.00
0.00	0.00	0.00

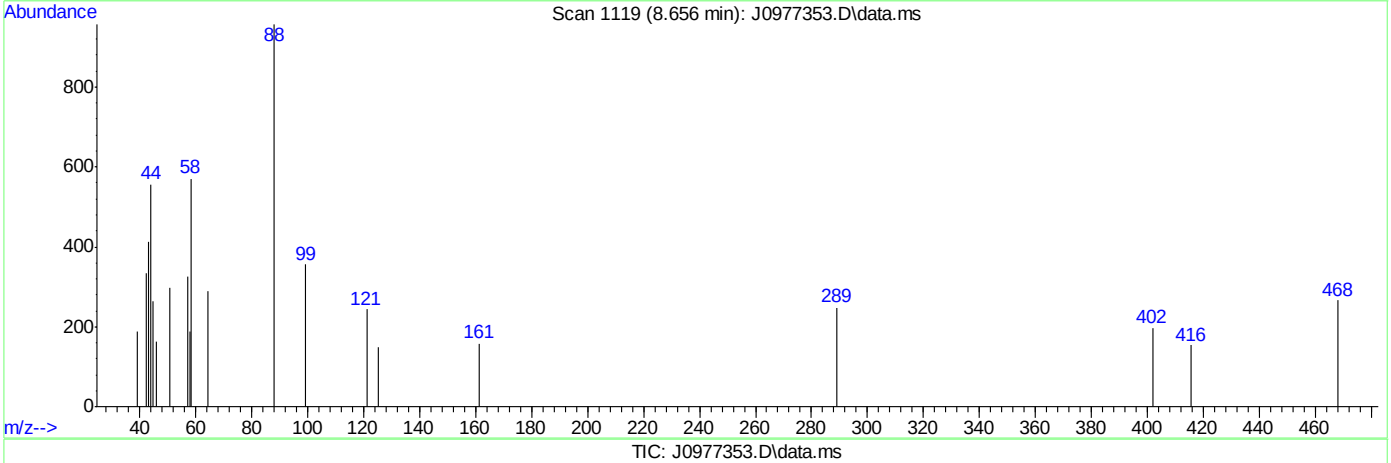
SGS ACCUTEST FA34891

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\062116\
Data File : J0977353.D
Acq On : 21 Jun 2016 9:01 am
Operator : darshnap
Sample : ic5340-2 Inst : MSVOA6
Misc : MS34179,vj5340,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 21 10:48:15 2016
Quant Method : C:\msdchem\1\methods\MSJ062116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Mon Jun 20 14:13:55 2016
Response via : Initial Calibration





TIC: J0977353.D\data.ms

(112) 1,4-Dioxane

8.656min (+0.000) 68.45ug/L

response 1124

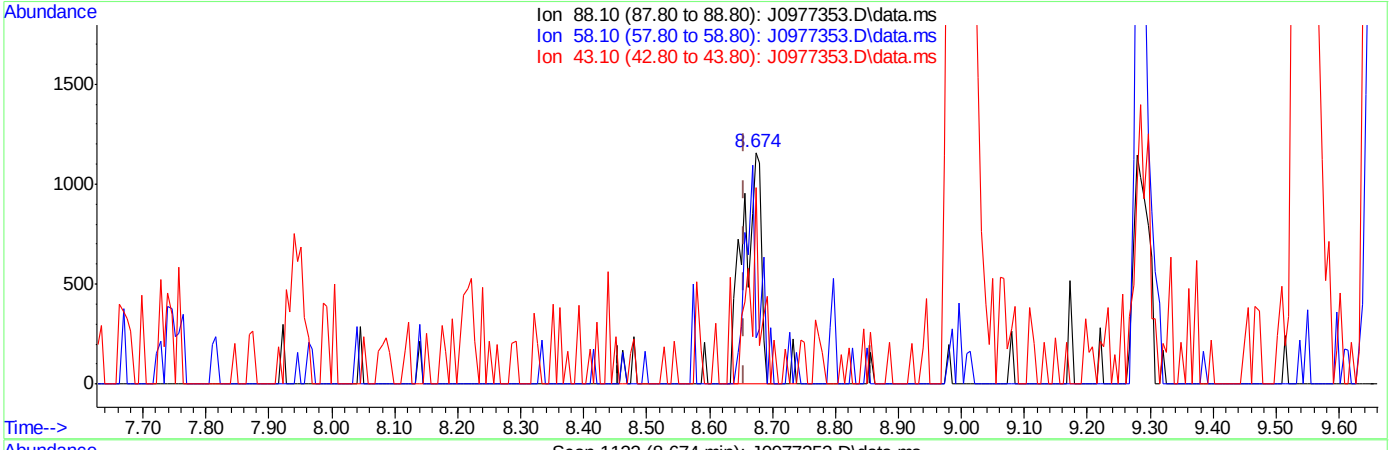
Ion	Exp%	Act%
88.10	100	100
58.10	66.40	79.31
43.10	25.40	43.05
0.00	0.00	0.00

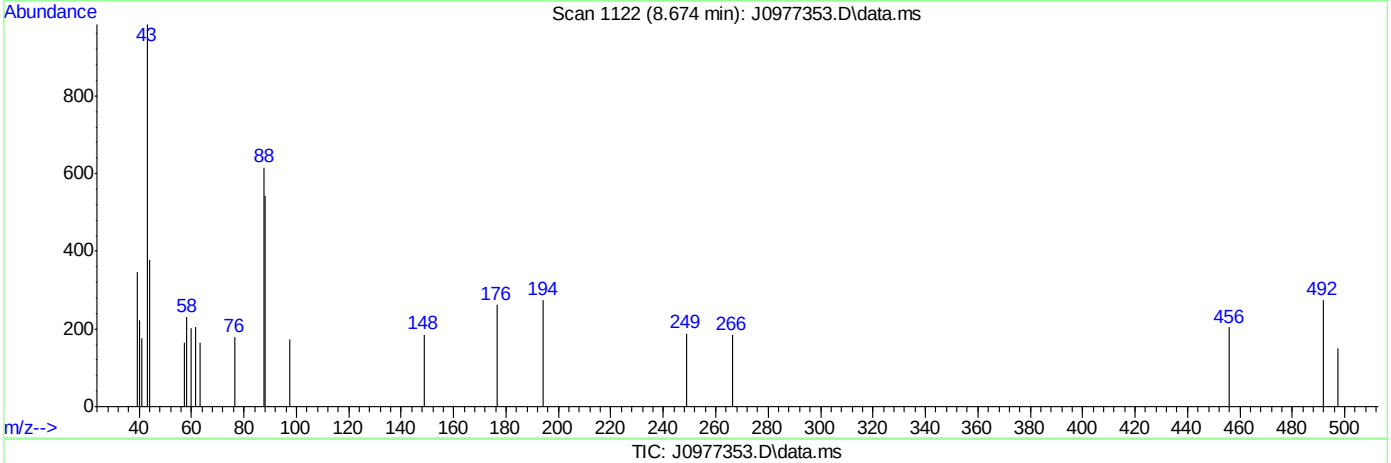
SGS ACCUTEST FA34891

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\062116\
Data File : J0977353.D
Acq On : 21 Jun 2016 9:01 am
Operator : darshnap
Sample : ic5340-2 Inst : MSVOA6
Misc : MS34179,vj5340,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 21 10:48:15 2016
Quant Method : C:\msdchem\1\methods\MSJ062116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Mon Jun 20 14:13:55 2016
Response via : Initial Calibration





TIC: J0977353.D\data.ms

(112) 1,4-Dioxane

8.674min (+0.018) 139.49ug/L m

response 2302

Ion	Exp%	Act%
88.10	100	100
58.10	66.40	37.40
43.10	25.40	160.00#
0.00	0.00	0.00

SGS ACCUTEST FA34891

Manual Integrations APPROVED (compounds with "m" flag)
Juan Garcia
06/22/16 11:19

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\062116\
Data File : J0977354.D
Acq On : 21 Jun 2016 9:24 am
Operator : darshnap
Sample : ic5340-3 Inst : MSVOA6
Misc : MS34179,vj5340,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 21 10:54:20 2016
Quant Method : C:\msdchem\1\methods\MSJ062116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Mon Jun 20 14:13:55 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.746	96	502416	50.00	ug/L	0.00
56) Chlorobenzene-d5	10.830	117	367587	50.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	13.192	152	191525	50.00	ug/L	0.00
106) Tert Butyl Alcohol-d10	5.278	65	38805	250.00	ug/L	-0.01
System Monitoring Compounds						
36) Dibromofluoromethane	6.917	113	135517	53.24	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 106.48%			
46) 1,2-Dichloroethane-d4	7.469	65	199096	57.26	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 114.52%			
57) Toluene-d8	9.285	98	485782	50.25	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 100.50%			
79) 4-Bromofluorobenzene	12.041	95	190592	52.09	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 104.18%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.687	85	35741	12.56	ug/L	75
3) Chloromethane	2.887	50	37198	11.52	ug/L	73
4) Vinyl Chloride	3.028	62	37770	12.94	ug/L	89
5) 1,3-Butadiene	3.033	54	31103	13.46	ug/L	96
6) Bromomethane	3.451	94	27856	12.17	ug/L	96
7) Chloroethane	3.597	64	20715	11.07	ug/L	89
8) Trichlorofluoromethane	3.821	101	62357	13.38	ug/L	85
9) Ethyl Ether	4.115	59	22989	11.27	ug/L #	84
10) 1,2-Dichlorotrifluoroe...	4.332	67	32707	12.52	ug/L	91
11) 1,1-Dichloroethene	4.385	61	46114	13.16	ug/L	95
12) Freon 113	4.455	101	28774	13.52	ug/L	93
13) Carbon Disulfide	4.473	76	84436	11.70	ug/L	100
14) Iodomethane	4.579	142	41954	11.26	ug/L	95
15) Allyl chloride	4.914	41	45994	12.57	ug/L	95
16) Methylene Chloride	5.043	49	43914	12.39	ug/L	89
17) Acetone	5.060	58	7374	45.78	ug/L	93
18) Methyl acetate	5.190	74	16330	58.53	ug/L	96
19) trans-1,2-Dichloroethene	5.225	61	40111	11.92	ug/L	93
20) Hexane	5.290	56	23414	11.37	ug/L #	86
21) Methyl Tert Butyl Ether	5.325	73	79212	11.13	ug/L	91
22) Acetonitrile	5.589	40	15115	137.56	ug/L #	72
23) Di-isopropyl ether	5.707	45	99292	11.44	ug/L	94
24) Chloroprene	5.860	53	57325	13.07	ug/L	91
25) 1,1-Dichloroethane	5.889	63	53539	11.84	ug/L	99
26) Acrylonitrile	5.924	53	34931	50.40	ug/L	92
27) ETBE	6.112	59	102695	11.24	ug/L	93
28) Vinyl acetate	6.100	43	277072	53.81	ug/L	94
29) cis-1,2-Dichloroethene	6.471	96	29438	10.11	ug/L	94
30) 2,2-Dichloropropane	6.588	77	42827	10.82	ug/L	100
31) Bromochloromethane	6.676	128	14285	11.23	ug/L	93
32) Cyclohexane	6.729	56	50587	12.60	ug/L	98
33) Chloroform	6.729	83	56673	11.10	ug/L	87
34) Ethyl acetate	6.794	43	93886	52.84	ug/L	92

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\062116\
Data File : J0977354.D
Acq On : 21 Jun 2016 9:24 am
Operator : darshnap
Sample : ic5340-3 Inst : MSVOA6
Misc : MS34179,vj5340,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 21 10:54:20 2016
Quant Method : C:\msdchem\1\methods\MSJ062116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Mon Jun 20 14:13:55 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
35) Tetrahydrofuran	6.911	42	5989	12.20 ug/L #	69
37) Carbon Tetrachloride	6.917	117	42182m	11.94 ug/L	
38) 1,1,1-Trichloroethane	6.982	97	54916	12.46 ug/L	95
39) 2-Butanone	7.011	43	36537	51.94 ug/L	93
40) 1,1-Dichloropropene	7.093	75	40336	11.89 ug/L	93
41) tert-Butyl Formate	7.176	59	149599	71.19 ug/L #	76
42) Propionitrile	7.323	54	30587	119.72 ug/L	83
43) Methacrylonitrile	7.346	41	138374	122.24 ug/L	96
44) Benzene	7.340	78	106877	11.86 ug/L	93
45) TAME	7.428	73	76274	10.30 ug/L	96
47) 1,2-Dichloroethane	7.534	62	47010	11.69 ug/L	91
48) Trichloroethene	7.922	95	29227	11.37 ug/L	86
49) Methylcyclohexane	7.940	83	46034	11.37 ug/L	92
50) Dibromomethane	8.351	93	15497	10.42 ug/L	82
51) 1,2-Dichloropropane	8.433	63	27259	10.73 ug/L	93
52) Bromodichloromethane	8.480	83	41550	11.91 ug/L	93
53) Methyl methacrylate	8.580	41	20200	11.65 ug/L	92
54) 2-Chloroethyl vinyl ether	8.991	63	73223	50.15 ug/L	94
55) cis-1,3-Dichloropropene	9.097	75	46033	11.35 ug/L	88
58) Toluene	9.344	91	115215	10.48 ug/L	98
59) 2-Nitropropane	9.544	41	32473	59.09 ug/L	93
60) 4-Methyl-2-pentanone	9.661	43	84765	46.68 ug/L	91
61) trans-1,3-Dichloropropene	9.726	75	38589	11.09 ug/L	88
62) Tetrachloroethene	9.743	166	27209	11.03 ug/L	93
63) Ethyl methacrylate	9.826	69	30862	10.97 ug/L	85
64) 1,1,2-Trichloroethane	9.890	83	19210	10.50 ug/L	93
65) Dibromochloromethane	10.090	129	25539	10.07 ug/L	97
66) 1,3-Dichloropropane	10.172	76	40576	10.80 ug/L	88
67) 1,2-Dibromoethane	10.349	107	24706	11.78 ug/L	95
68) 2-hexanone	10.478	43	63512	51.15 ug/L	91
69) 1-Chlorohexane	10.777	91	35666	10.42 ug/L #	84
70) Ethylbenzene	10.848	91	136336	10.78 ug/L	89
71) Chlorobenzene	10.848	112	73080	11.09 ug/L	93
72) 1,1,1,2-Tetrachloroethane	10.895	131	26239	10.21 ug/L	92
73) m,p-Xylene	10.983	91	210333	21.57 ug/L	99
74) o-Xylene	11.424	91	110736	10.62 ug/L	98
75) Styrene	11.477	104	78336	10.00 ug/L	96
76) Bromoform	11.541	173	14659	9.59 ug/L	85
77) Isopropylbenzene	11.729	105	127594	10.77 ug/L	100
80) cis-1,4-Dichloro-2-butene	12.076	53	10068	11.77 ug/L #	82
81) n-Propylbenzene	12.146	91	153199	10.90 ug/L	96
82) Bromobenzene	12.170	156	30234	9.74 ug/L	94
83) 1,1,2,2-Tetrachloroethane	12.205	83	26047	10.07 ug/L	100
84) 1,3,5-Trimethylbenzene	12.329	105	118139	11.30 ug/L	90
85) 2-Chlorotoluene	12.334	91	105330	10.44 ug/L	92
86) trans-1,4-Dichloro-2-B...	12.387	53	8490	11.22 ug/L	90
87) 1,2,3-Trichloropropane	12.370	110	7527	10.22 ug/L	82
88) Cyclohexanone	12.434	55	2709	42.37 ug/L #	76
89) 4-Chlorotoluene	12.505	91	102194	11.05 ug/L	94
90) a-Methyl Styrene	12.593	118	62838	11.20 ug/L	95

SGS ACCUTEST FA34891

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\062116\
Data File : J0977354.D
Acq On : 21 Jun 2016 9:24 am
Operator : darshnap
Sample : ic5340-3 Inst : MSVOA6
Misc : MS34179,vj5340,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 21 10:54:20 2016
Quant Method : C:\msdchem\1\methods\MSJ062116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Mon Jun 20 14:13:55 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
91) tert-Butylbenzene	12.669	91	64619	10.90	ug/L	90
92) 1,2,4-Trimethylbenzene	12.740	105	117749	10.79	ug/L	97
93) Pentachloroethane	12.722	167	19887	10.23	ug/L	96
94) sec-Butylbenzene	12.852	105	137119	11.11	ug/L	95
95) 4-Isopropyltoluene	12.987	119	115221	10.87	ug/L	96
96) 1,3-Dichlorobenzene	13.122	146	54333	9.97	ug/L	99
97) 1,4-Dichlorobenzene	13.204	146	57333	10.43	ug/L	92
98) n-Butylbenzene	13.421	92	64944	10.60	ug/L	93
99) Benzyl Chloride	13.433	126	7935	8.45	ug/L #	78
100) 1,2-Dichlorobenzene	13.627	146	52244	10.18	ug/L	94
101) 1,2-Dibromo-3-Chloropr...	14.373	75	4616	11.32	ug/L	86
102) Hexachlorobutadiene	14.914	225	20959	9.56	ug/L	98
103) 1,2,4-Trichlorobenzene	14.961	180	40490	10.38	ug/L	89
104) Naphthalene	15.249	128	60451	9.86	ug/L	99
105) 1,2,3-Trichlorobenzene	15.413	180	31853	9.84	ug/L	95
107) Ethanol	4.273	45	4691m	249.94	ug/L	
108) acrolein	4.755	56	23564	68.24	ug/L	73
109) Tert Butyl Alcohol	5.366	59	19882	97.31	ug/L	72
110) tert Amyl alcohol	7.569	59	15396	104.65	ug/L	84
111) Isobutyl alcohol	7.446	42	14587	263.30	ug/L #	67
112) 1,4-Dioxane	8.662	88	3935	243.04	ug/L	78
113) 3,3-Dimethyl-1-butanol	10.425	57	63331	427.33	ug/L	90

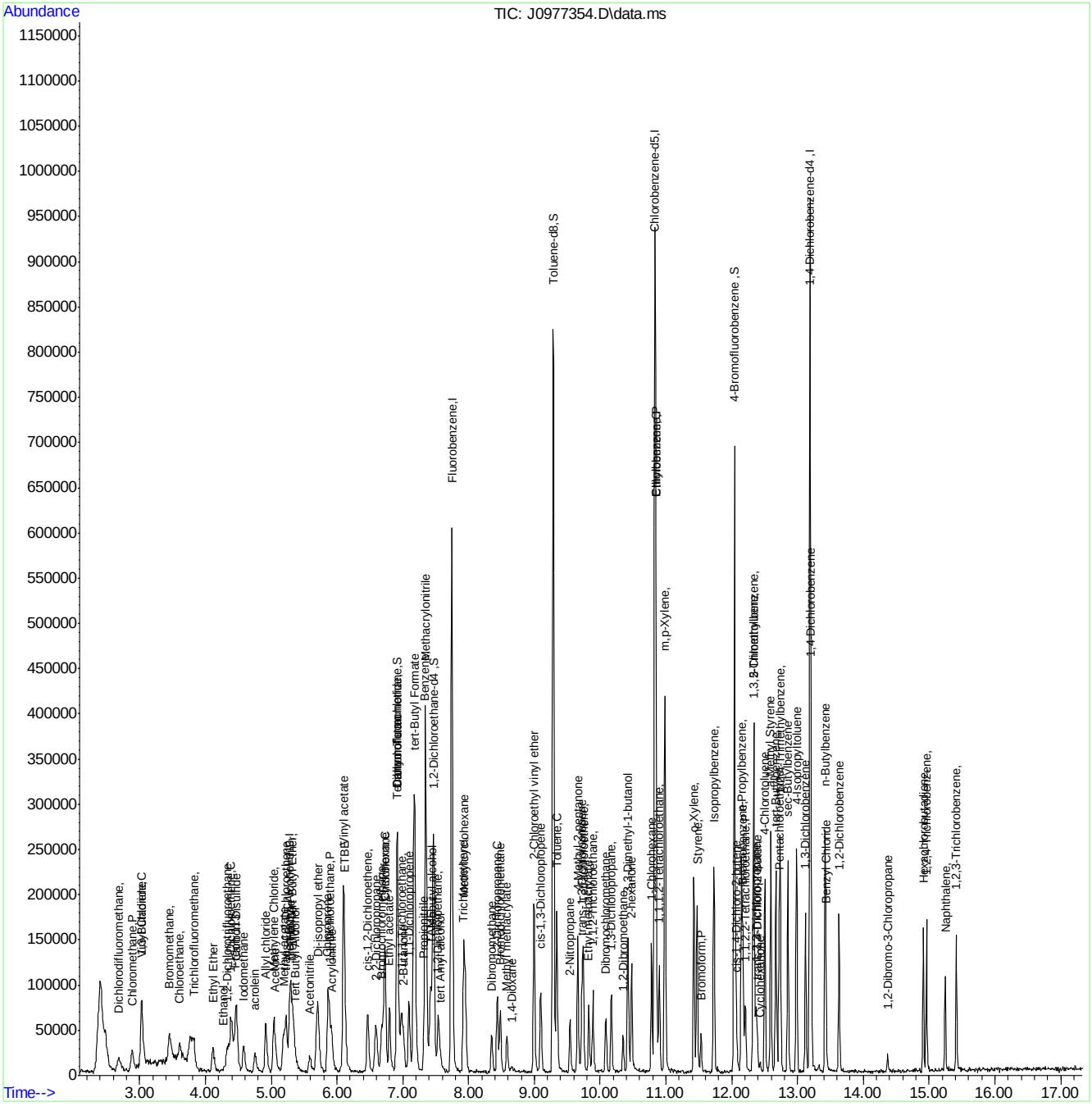
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST FA34891

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\062116\
Data File : J0977354.D
Acq On : 21 Jun 2016 9:24 am
Operator : darshnap
Sample : ic5340-3 Inst : MSVOA6
Misc : MS34179,vj5340,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 21 10:54:20 2016
Quant Method : C:\msdchem\1\methods\MSJ062116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Mon Jun 20 14:13:55 2016
Response via : Initial Calibration



SGS ACCUTEST FA34891

Manual Integration Approval Summary

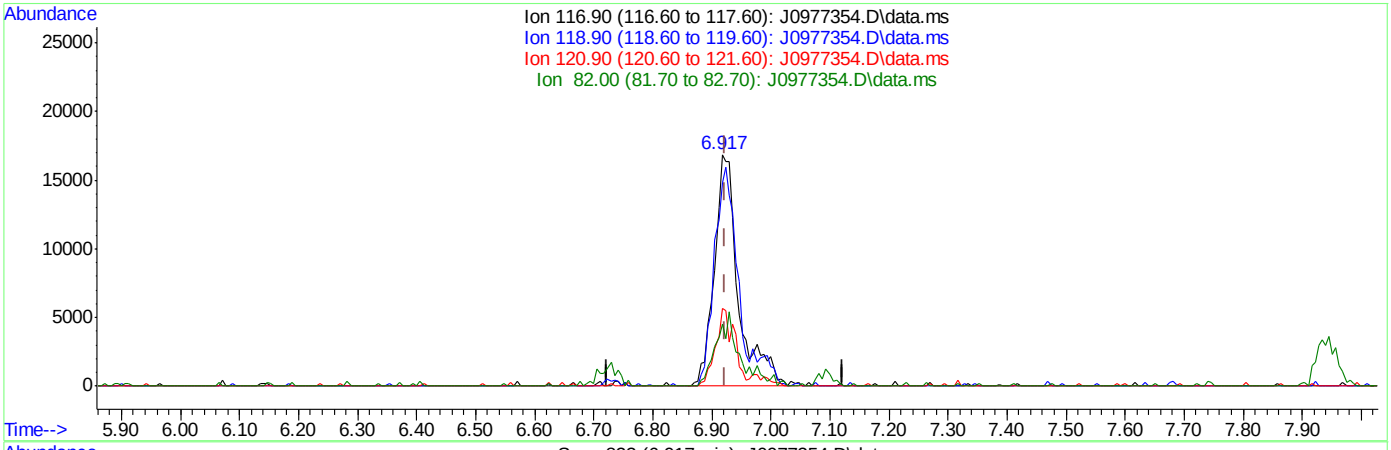
Sample Number:	VJ5340-IC5340	**Method:**	SW846 8260B
Lab FileID:	J0977354.D	**Analyst approved:**	06/22/16 10:10 Darshna Patel
Injection Time:	06/21/16 09:24	**Supervisor approved:**	06/22/16 11:19 Juan Garcia

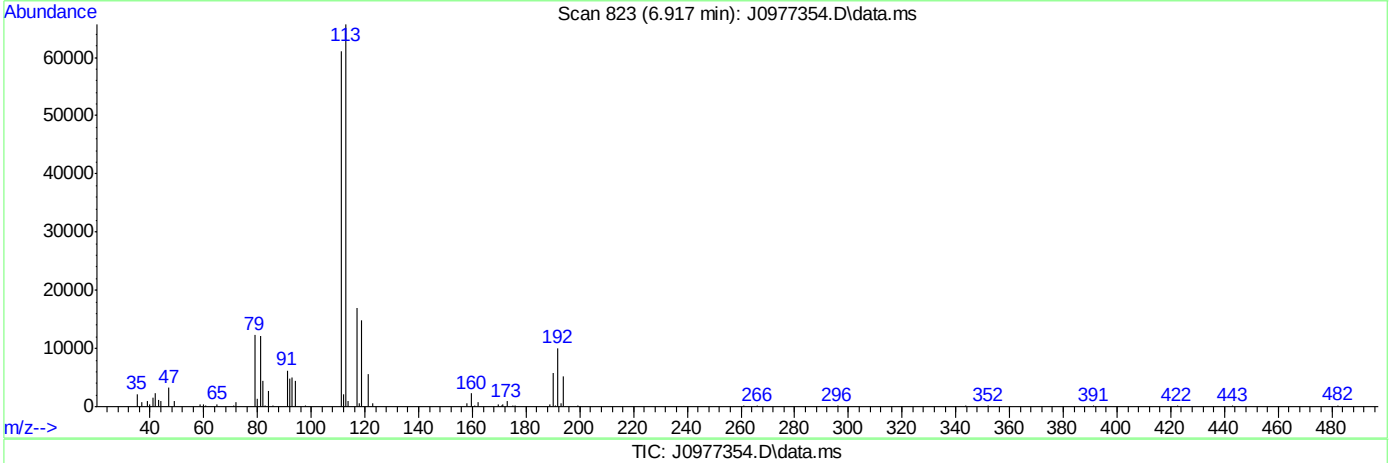
Parameter	CAS	Sig#	R.T. (min.)	Reason
Ethyl Alcohol	64-17-5		4.27	Poor instrument integration
Carbon Tetrachloride	56-23-5		6.92	Overlapping peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\062116\
Data File : J0977354.D
Acq On : 21 Jun 2016 9:24 am
Operator : darshnap
Sample : ic5340-3 Inst : MSVOA6
Misc : MS34179,vj5340,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 21 10:48:18 2016
Quant Method : C:\msdchem\1\methods\MSJ062116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Mon Jun 20 14:13:55 2016
Response via : Initial Calibration





TIC: J0977354.D\data.ms

(37) Carbon Tetrachloride ( )

6.917min (-0.006) 13.59ug/L

response 48036

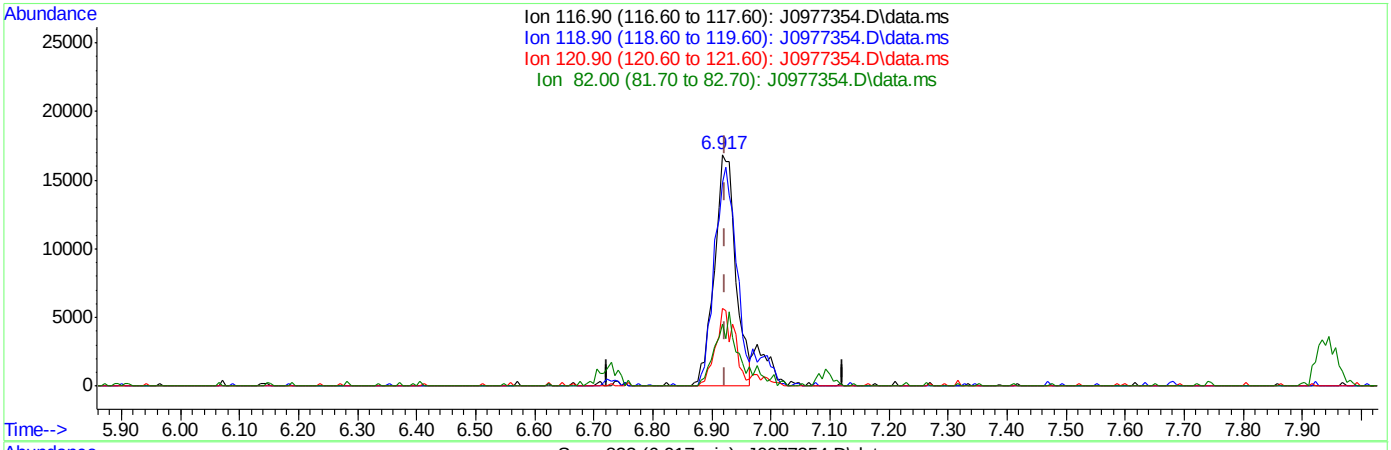
Ion	Exp%	Act%
116.90	100	100
118.90	93.00	87.63
120.90	28.00	33.38
82.00	26.30	26.83

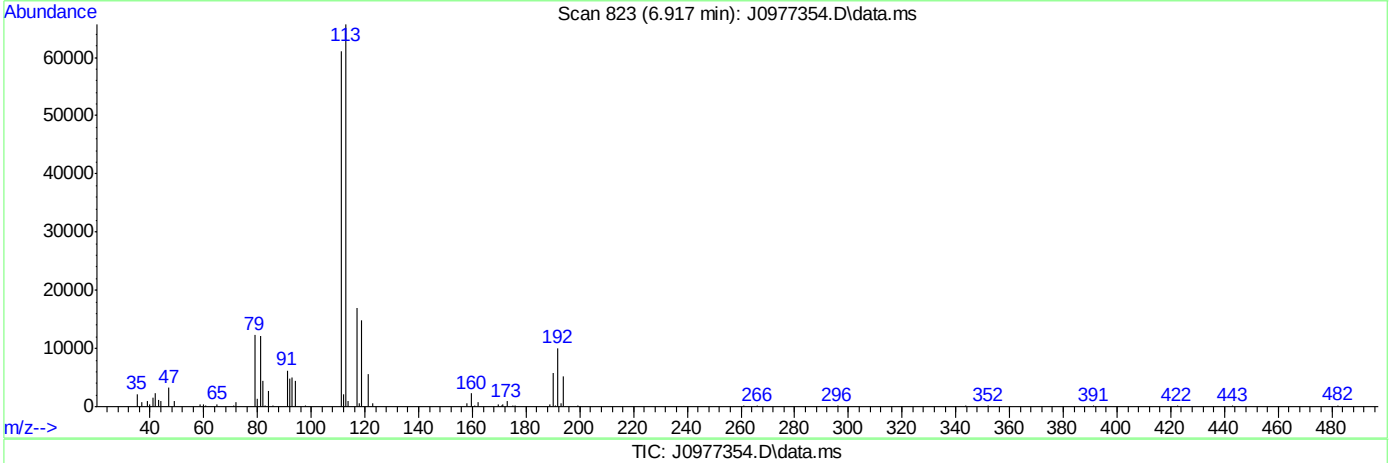
SGS ACCUTEST FA34891

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\062116\
Data File : J0977354.D
Acq On : 21 Jun 2016 9:24 am
Operator : darshnap
Sample : ic5340-3 Inst : MSVOA6
Misc : MS34179,vj5340,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 21 10:48:18 2016
Quant Method : C:\msdchem\1\methods\MSJ062116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Mon Jun 20 14:13:55 2016
Response via : Initial Calibration





TIC: J0977354.D\data.ms

(37) Carbon Tetrachloride ( )

6.917min (-0.006) 11.94ug/L m

response 42182

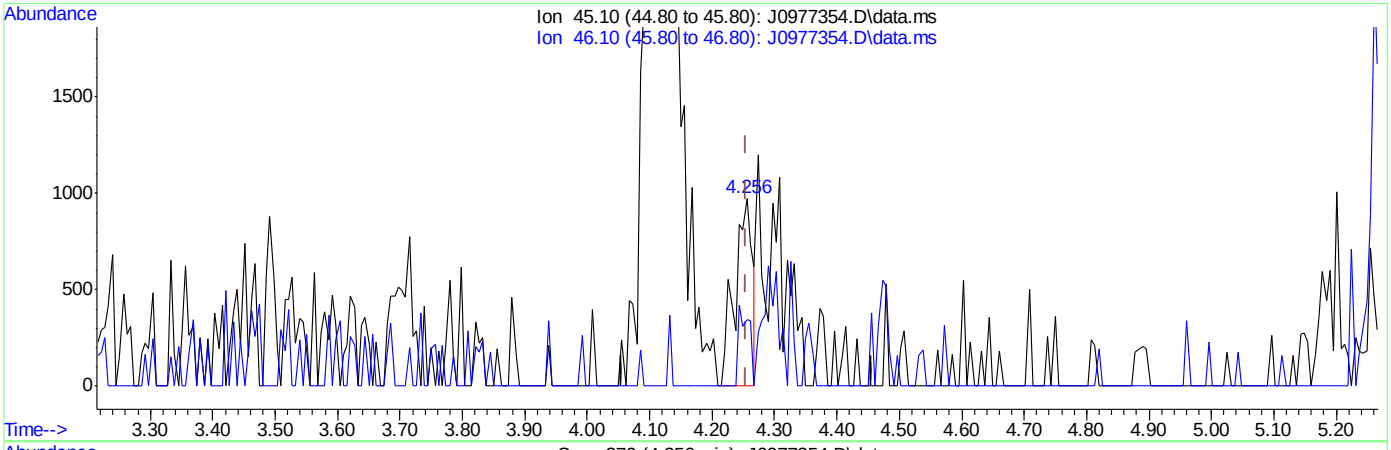
Ion	Exp%	Act%
116.90	100	100
118.90	93.00	87.63
120.90	28.00	33.38
82.00	26.30	26.83

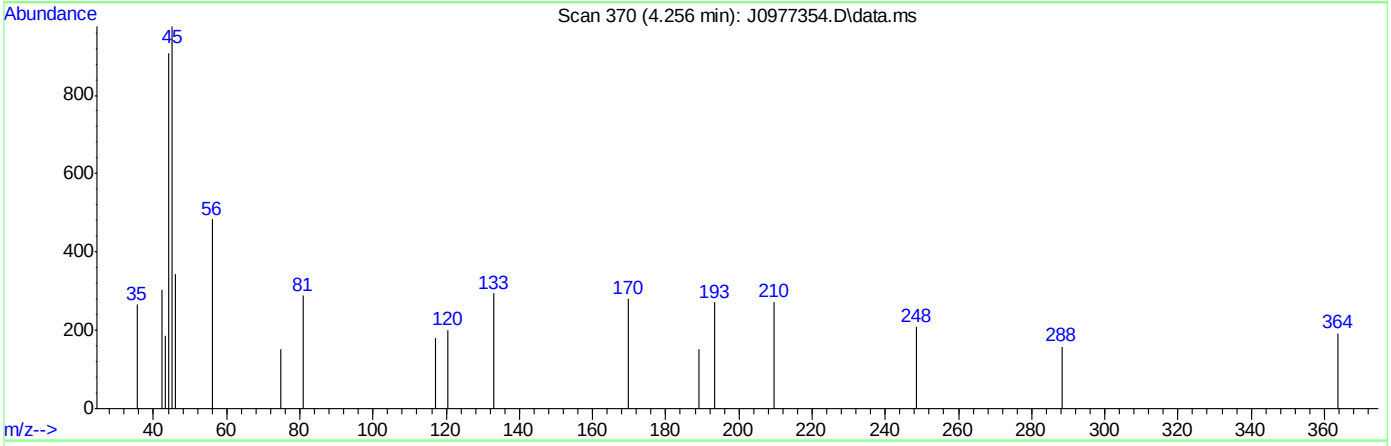
SGS ACCUTEST FA34891

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\062116\
Data File : J0977354.D
Acq On : 21 Jun 2016 9:24 am
Operator : darshnap
Sample : ic5340-3 Inst : MSVOA6
Misc : MS34179,vj5340,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 21 10:48:18 2016
Quant Method : C:\msdchem\1\methods\MSJ062116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Mon Jun 20 14:13:55 2016
Response via : Initial Calibration





TIC: J0977354.D\data.ms

(107) Ethanol

4.256min (-0.000) 101.61ug/L

response 1907

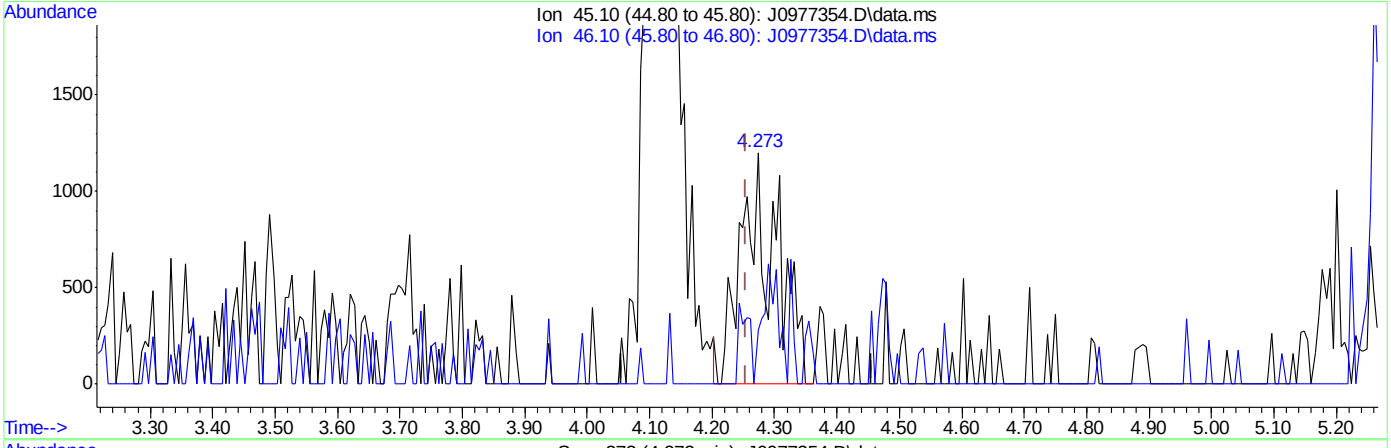
Ion	Exp%	Act%
45.10	100	100
46.10	36.70	35.14
0.00	0.00	0.00
0.00	0.00	0.00

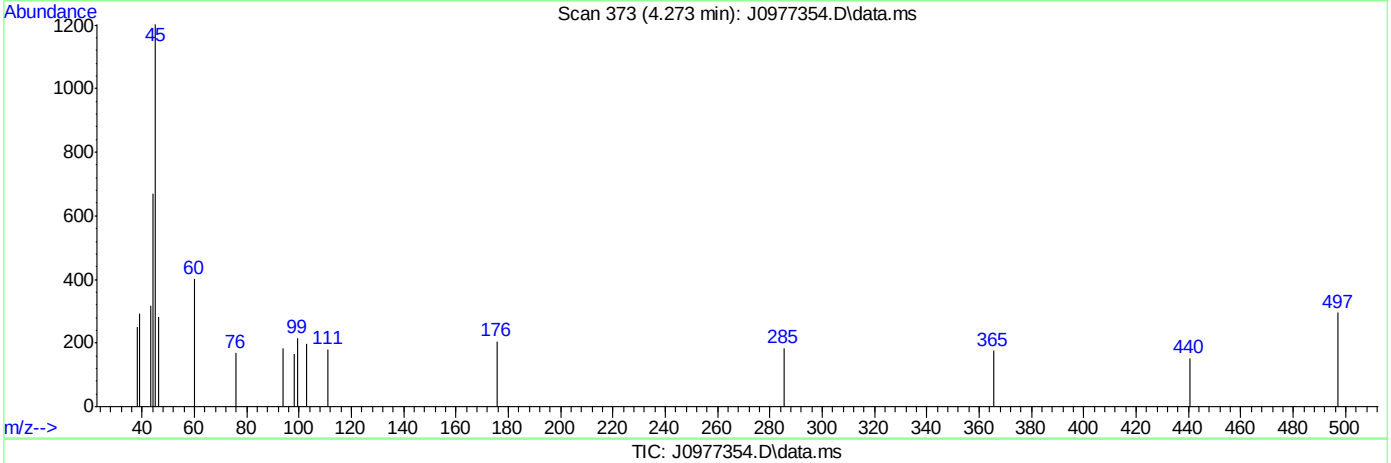
SGS ACCUTEST FA34891

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\062116\
Data File : J0977354.D
Acq On : 21 Jun 2016 9:24 am
Operator : darshnap
Sample : ic5340-3 Inst : MSVOA6
Misc : MS34179,vj5340,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 21 10:48:18 2016
Quant Method : C:\msdchem\1\methods\MSJ062116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Mon Jun 20 14:13:55 2016
Response via : Initial Calibration





TIC: J0977354.D\data.ms

(107) Ethanol

4.273min (+0.017) 249.94ug/L m

response 4691

Ion	Exp%	Act%
45.10	100	100
46.10	36.70	23.38
0.00	0.00	0.00
0.00	0.00	0.00

SGS ACCUTEST FA34891

Manual Integrations APPROVED (compounds with "m" flag)
Juan Garcia
06/22/16 11:19

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\062116\
Data File : J0977355.D
Acq On : 21 Jun 2016 9:47 am
Operator : darshnap
Sample : ic5340-4 Inst : MSVOA6
Misc : MS34179,vj5340,,,,,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 21 10:54:49 2016
Quant Method : C:\msdchem\1\methods\MSJ062116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Mon Jun 20 14:13:55 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.746	96	518842	50.00	ug/L	0.00
56) Chlorobenzene-d5	10.830	117	364305	50.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	13.186	152	200510	50.00	ug/L	0.00
106) Tert Butyl Alcohol-d10	5.272	65	35477	250.00	ug/L	-0.02
System Monitoring Compounds						
36) Dibromofluoromethane	6.917	113	135379	51.50	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 103.00%			
46) 1,2-Dichloroethane-d4	7.470	65	196383	54.69	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 109.38%			
57) Toluene-d8	9.285	98	493756	51.53	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 103.06%			
79) 4-Bromofluorobenzene	12.041	95	187411	48.93	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 97.86%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.681	85	87123	28.69	ug/L	98
3) Chloromethane	2.892	50	89107	26.54	ug/L	96
4) Vinyl Chloride	3.039	62	89161	29.02	ug/L	94
5) 1,3-Butadiene	3.028	54	65315	27.81	ug/L	91
6) Bromomethane	3.462	94	71353	30.13	ug/L	86
7) Chloroethane	3.609	64	56849	30.32	ug/L	92
8) Trichlorofluoromethane	3.774	101	147954	29.86	ug/L	82
9) Ethyl Ether	4.115	59	62470	29.65	ug/L	96
10) 1,2-Dichlorotrifluoroe...	4.350	67	79044	29.29	ug/L	91
11) 1,1-Dichloroethene	4.391	61	113095	31.19	ug/L	94
12) Freon 113	4.461	101	68368	30.86	ug/L	90
13) Carbon Disulfide	4.467	76	221402	29.70	ug/L	93
14) Iodomethane	4.579	142	109571	28.47	ug/L	81
15) Allyl chloride	4.920	41	99026	26.20	ug/L	95
16) Methylene Chloride	5.043	49	103851	28.64	ug/L	87
17) Acetone	5.066	58	19073	114.55	ug/L	95
18) Methyl acetate	5.196	74	38250	131.79	ug/L #	74
19) trans-1,2-Dichloroethene	5.225	61	101010	29.08	ug/L	94
20) Hexane	5.290	56	67012	31.50	ug/L	97
21) Methyl Tert Butyl Ether	5.325	73	209880	28.56	ug/L	76
22) Acetonitrile	5.578	40	31171	270.70	ug/L #	82
23) Di-isopropyl ether	5.713	45	261460	29.18	ug/L	91
24) Chloroprene	5.865	53	125442	27.70	ug/L	93
25) 1,1-Dichloroethane	5.895	63	133227	28.54	ug/L	97
26) Acrylonitrile	5.918	53	93407	130.32	ug/L	98
27) ETBE	6.112	59	264922	28.08	ug/L	92
28) Vinyl acetate	6.100	43	735093	138.23	ug/L	98
29) cis-1,2-Dichloroethene	6.471	96	87186	28.99	ug/L	85
30) 2,2-Dichloropropane	6.588	77	120225	29.41	ug/L	95
31) Bromochloromethane	6.676	128	33717	25.66	ug/L #	79
32) Cyclohexane	6.723	56	124378	29.99	ug/L	90
33) Chloroform	6.729	83	154991	29.41	ug/L	86
34) Ethyl acetate	6.794	43	246113	134.12	ug/L	97

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\062116\
Data File : J0977355.D
Acq On : 21 Jun 2016 9:47 am
Operator : darshnap
Sample : ic5340-4 Inst : MSVOA6
Misc : MS34179,vj5340,,,,,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 21 10:54:49 2016
Quant Method : C:\msdchem\1\methods\MSJ062116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Mon Jun 20 14:13:55 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
35) Tetrahydrofuran	6.917	42	15201	29.46	ug/L		90
37) Carbon Tetrachloride	6.923	117	105658	28.95	ug/L		90
38) 1,1,1-Trichloroethane	6.982	97	134980	29.65	ug/L		88
39) 2-Butanone	7.011	43	95677	131.70	ug/L		92
40) 1,1-Dichloropropene	7.093	75	102777	29.33	ug/L		96
41) tert-Butyl Formate	7.176	59	461313	212.59	ug/L	#	82
42) Propionitrile	7.323	54	70166	265.93	ug/L		83
43) Methacrylonitrile	7.346	41	310367	265.49	ug/L		97
44) Benzene	7.346	78	267486	28.57	ug/L		98
45) TAME	7.423	73	205185	26.83	ug/L		94
47) 1,2-Dichloroethane	7.534	62	124758	30.04	ug/L		91
48) Trichloroethene	7.922	95	75019	28.25	ug/L		92
49) Methylcyclohexane	7.945	83	123693	29.59	ug/L		97
50) Dibromomethane	8.351	93	44502	28.97	ug/L		80
51) 1,2-Dichloropropane	8.439	63	71613	27.30	ug/L		98
52) Bromodichloromethane	8.480	83	111738	30.57	ug/L		95
53) Methyl methacrylate	8.580	41	43373	24.22	ug/L		95
54) 2-Chloroethyl vinyl ether	8.991	63	188158	124.78	ug/L		94
55) cis-1,3-Dichloropropene	9.097	75	114904	27.43	ug/L		79
58) Toluene	9.338	91	296208	27.18	ug/L		97
59) 2-Nitropropane	9.544	41	86537	156.55	ug/L		94
60) 4-Methyl-2-pentanone	9.661	43	234241	130.14	ug/L		96
61) trans-1,3-Dichloropropene	9.726	75	102406	29.69	ug/L		95
62) Tetrachloroethene	9.743	166	76842	31.43	ug/L		92
63) Ethyl methacrylate	9.826	69	73896	26.50	ug/L		98
64) 1,1,2-Trichloroethane	9.890	83	51956	28.65	ug/L		84
65) Dibromochloromethane	10.090	129	66280	26.37	ug/L		93
66) 1,3-Dichloropropane	10.166	76	110484	29.66	ug/L		96
67) 1,2-Dibromoethane	10.349	107	57410	27.62	ug/L		85
68) 2-hexanone	10.478	43	158555	128.85	ug/L		94
69) 1-Chlorohexane	10.777	91	97866	28.85	ug/L		89
70) Ethylbenzene	10.848	91	359276	28.67	ug/L		96
71) Chlorobenzene	10.854	112	190898	29.15	ug/L		93
72) 1,1,1,2-Tetrachloroethane	10.901	131	70484	27.67	ug/L		96
73) m,p-Xylene	10.983	91	551185	57.04	ug/L		99
74) o-Xylene	11.424	91	294139	28.47	ug/L		97
75) Styrene	11.471	104	211042	27.19	ug/L		95
76) Bromoform	11.535	173	39874	26.33	ug/L		96
77) Isopropylbenzene	11.729	105	339911	28.96	ug/L		98
80) cis-1,4-Dichloro-2-butene	12.070	53	24431	27.04	ug/L	#	84
81) n-Propylbenzene	12.146	91	411638	27.99	ug/L		100
82) Bromobenzene	12.170	156	75394	23.19	ug/L		87
83) 1,1,2,2-Tetrachloroethane	12.205	83	73226	27.05	ug/L		93
84) 1,3,5-Trimethylbenzene	12.329	105	308563	28.18	ug/L		92
85) 2-Chlorotoluene	12.334	91	282626	26.75	ug/L		97
86) trans-1,4-Dichloro-2-B...	12.387	53	21525	27.18	ug/L		87
87) 1,2,3-Trichloropropane	12.364	110	21219	27.51	ug/L		90
88) Cyclohexanone	12.434	55	8987	133.83	ug/L	#	79
89) 4-Chlorotoluene	12.505	91	270557	27.95	ug/L		90
90) a-Methyl Styrene	12.593	118	139827	23.82	ug/L		97

SGS ACCUTEST FA34891

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\062116\
Data File : J0977355.D
Acq On : 21 Jun 2016 9:47 am
Operator : darshnap
Sample : ic5340-4 Inst : MSVOA6
Misc : MS34179,vj5340,,,,,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 21 10:54:49 2016
Quant Method : C:\msdchem\1\methods\MSJ062116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Mon Jun 20 14:13:55 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
91) tert-Butylbenzene	12.669	91	175300	28.23	ug/L	93
92) 1,2,4-Trimethylbenzene	12.740	105	299202	26.20	ug/L	96
93) Pentachloroethane	12.722	167	43489	21.37	ug/L	95
94) sec-Butylbenzene	12.852	105	362840	28.08	ug/L	94
95) 4-Isopropyltoluene	12.987	119	308706	27.83	ug/L	96
96) 1,3-Dichlorobenzene	13.122	146	147583	25.88	ug/L	97
97) 1,4-Dichlorobenzene	13.204	146	145826	25.34	ug/L	88
98) n-Butylbenzene	13.421	92	178384	27.81	ug/L	92
99) Benzyl Chloride	13.433	126	23663	24.06	ug/L #	89
100) 1,2-Dichlorobenzene	13.633	146	140067	26.07	ug/L	95
101) 1,2-Dibromo-3-Chloropr...	14.367	75	12524	28.82	ug/L	88
102) Hexachlorobutadiene	14.914	225	59807	26.05	ug/L	91
103) 1,2,4-Trichlorobenzene	14.961	180	104868	25.68	ug/L	97
104) Naphthalene	15.243	128	169592	26.41	ug/L	99
105) 1,2,3-Trichlorobenzene	15.413	180	83484	24.63	ug/L	89
107) Ethanol	4.256	45	8520m	496.53	ug/L	
108) acrolein	4.755	56	53462	166.15	ug/L	88
109) Tert Butyl Alcohol	5.366	59	54502	291.78	ug/L	84
110) tert Amyl alcohol	7.558	59	42668	310.37	ug/L	87
111) Isobutyl alcohol	7.440	42	31433	611.44	ug/L #	82
112) 1,4-Dioxane	8.656	88	9008	594.13	ug/L #	52
113) 3,3-Dimethyl-1-butanol	10.419	57	199440	1436.40	ug/L	96

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

7.6.4

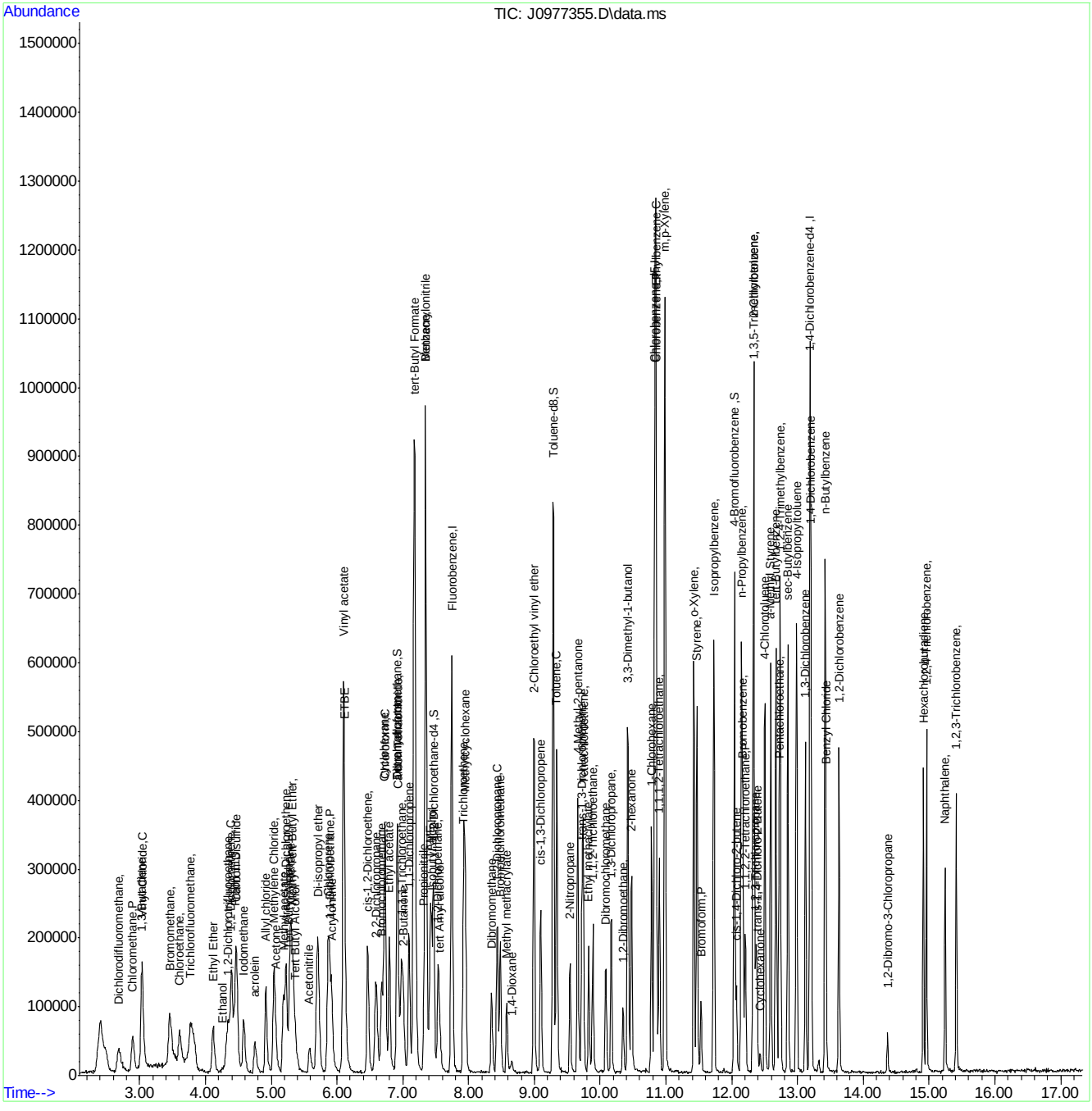
7

SGS ACCUTEST FA34891

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\062116\
Data File : J0977355.D
Acq On : 21 Jun 2016 9:47 am
Operator : darshnap
Sample : ic5340-4 Inst : MSVOA6
Misc : MS34179,vj5340,,,,,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 21 10:54:49 2016
Quant Method : C:\msdchem\1\methods\MSJ062116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Mon Jun 20 14:13:55 2016
Response via : Initial Calibration



SGS ACCUTEST FA34891

Manual Integration Approval Summary

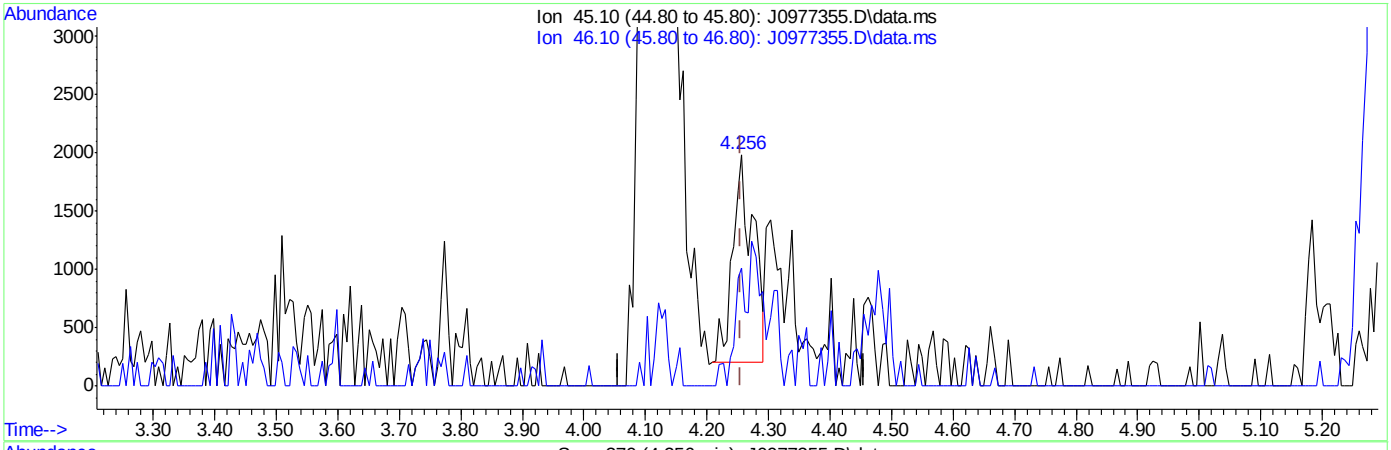
Sample Number:	VJ5340-IC5340	**Method:**	SW846 8260B
Lab FileID:	J0977355.D	**Analyst approved:**	06/22/16 10:10 Darshna Patel
Injection Time:	06/21/16 09:47	**Supervisor approved:**	06/22/16 11:19 Juan Garcia

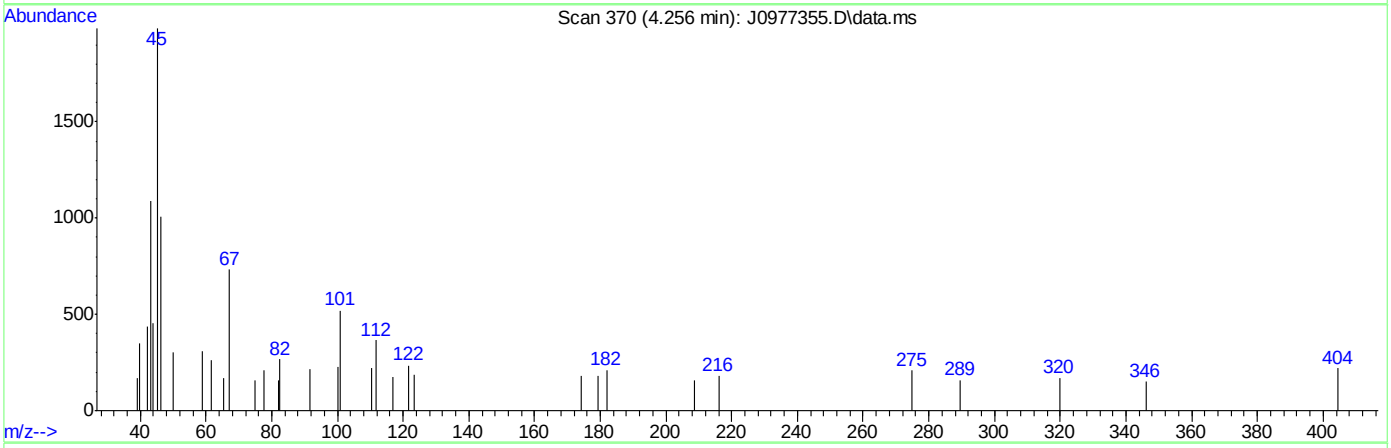
Parameter	CAS	Sig#	R.T. (min.)	Reason
Ethyl Alcohol	64-17-5		4.26	Poor instrument integration

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\062116\
Data File : J0977355.D
Acq On : 21 Jun 2016 9:47 am
Operator : darshnap
Sample : ic5340-4 Inst : MSVOA6
Misc : MS34179,vj5340,,,,,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 21 10:48:21 2016
Quant Method : C:\msdchem\1\methods\MSJ062116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Mon Jun 20 14:13:55 2016
Response via : Initial Calibration





TIC: J0977355.D\data.ms

(107) Ethanol

4.256min (-0.000) 239.70ug/L

response 4113

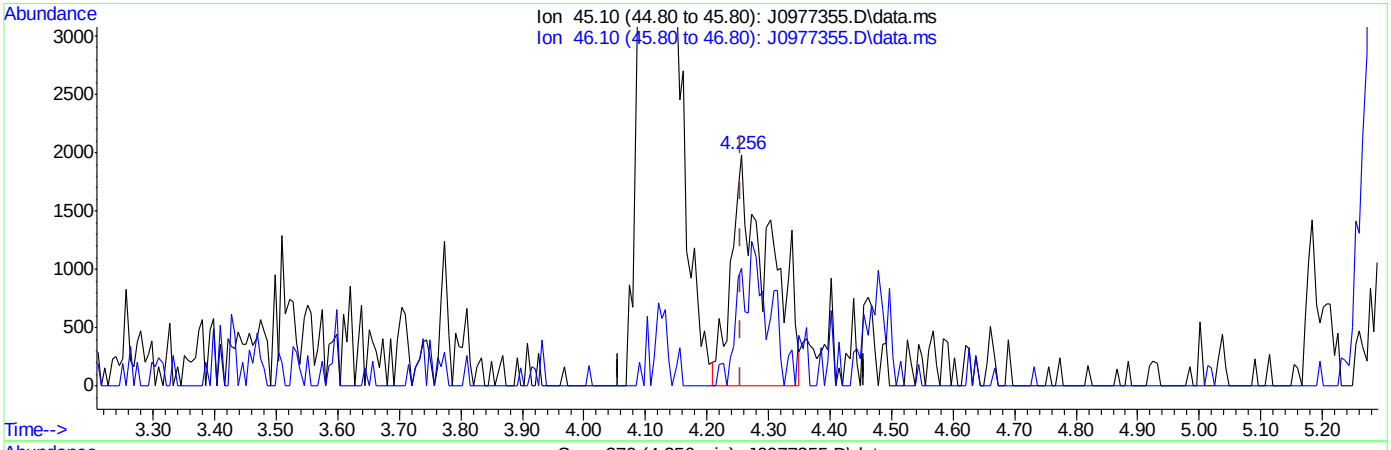
Ion	Exp%	Act%
45.10	100	100
46.10	36.70	56.60
0.00	0.00	0.00
0.00	0.00	0.00

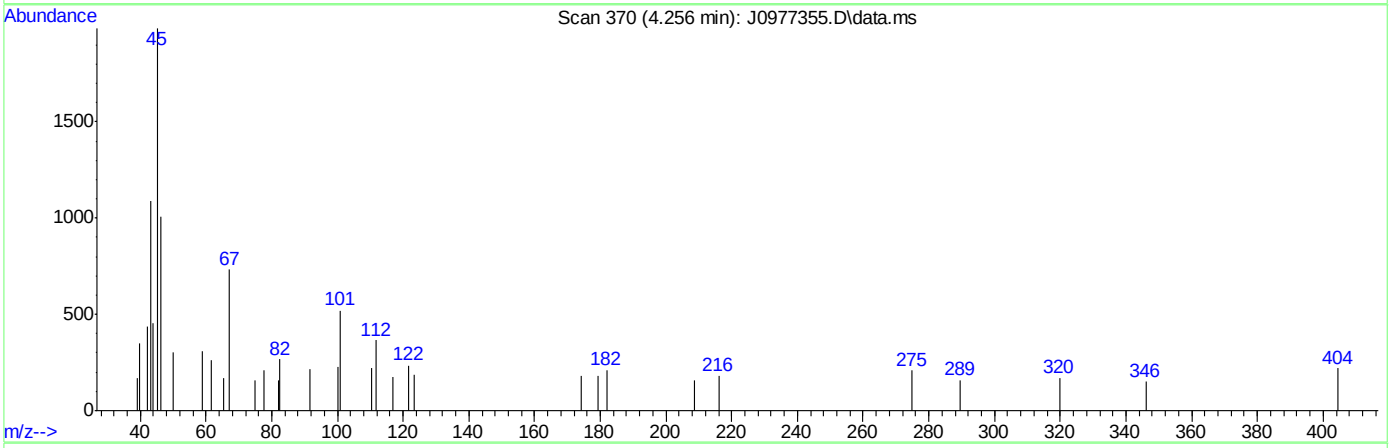
SGS ACCUTEST FA34891

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\062116\
Data File : J0977355.D
Acq On : 21 Jun 2016 9:47 am
Operator : darshnap
Sample : ic5340-4 Inst : MSVOA6
Misc : MS34179,vj5340,,,,,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 21 10:48:21 2016
Quant Method : C:\msdchem\1\methods\MSJ062116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Mon Jun 20 14:13:55 2016
Response via : Initial Calibration





TIC: J0977355.D\data.ms

(107) Ethanol

4.256min (-0.000) 496.53ug/L m

response 8520

Ion	Exp%	Act%
45.10	100	100
46.10	36.70	50.73
0.00	0.00	0.00
0.00	0.00	0.00

SGS ACCUTEST FA34891

Manual Integrations APPROVED (compounds with "m" flag)
Juan Garcia
06/22/16 11:19

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\062116\
Data File : J0977356.D
Acq On : 21 Jun 2016 10:09 am
Operator : darshnap
Sample : icc5340-5 Inst : MSVOA6
Misc : MS34179,vj5340,,,,,
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 21 11:34:00 2016
Quant Method : C:\msdchem\1\methods\MSJ062116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Mon Jun 20 14:13:55 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.745	96	514943	50.00	ug/L	0.00
56) Chlorobenzene-d5	10.830	117	379568	50.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	13.192	152	202128	50.00	ug/L	0.00
106) Tert Butyl Alcohol-d10	5.295	65	39582	250.00	ug/L	0.00
System Monitoring Compounds						
36) Dibromofluoromethane	6.917	113	133377	51.12	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 102.24%			
46) 1,2-Dichloroethane-d4	7.463	65	204975	57.52	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 115.04%			
57) Toluene-d8	9.285	98	493574	49.44	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 98.88%			
79) 4-Bromofluorobenzene	12.040	95	197585	51.17	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 102.34%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.681	85	160958	51.10	ug/L	99
3) Chloromethane	2.892	50	163042	48.44	ug/L	85
4) Vinyl Chloride	3.033	62	159572	51.01	ug/L	98
5) 1,3-Butadiene	3.027	54	106753	46.81	ug/L	90
6) Bromomethane	3.456	94	130939	55.57	ug/L	96
7) Chloroethane	3.603	64	101874	57.18	ug/L	98
8) Trichlorofluoromethane	3.774	101	269912	52.79	ug/L	100
9) Ethyl Ether	4.120	59	96503	46.14	ug/L	95
10) 1,2-Dichlorotrifluoroe...	4.326	67	124032	46.31	ug/L	91
11) 1,1-Dichloroethene	4.390	61	178504	49.51	ug/L	96
12) Freon 113	4.443	101	109553	49.41	ug/L	95
13) Carbon Disulfide	4.467	76	339189	45.84	ug/L	98
14) Iodomethane	4.578	142	165455	43.31	ug/L	92
15) Allyl chloride	4.913	41	160181	42.70	ug/L	97
16) Methylene Chloride	5.037	49	157701	44.22	ug/L	92
17) Acetone	5.054	58	35317	213.40	ug/L	89
18) Methyl acetate	5.184	74	61141	210.59	ug/L #	83
19) trans-1,2-Dichloroethene	5.225	61	157578	45.70	ug/L	92
20) Hexane	5.284	56	101627	48.13	ug/L #	81
21) Methyl Tert Butyl Ether	5.325	73	313331	42.97	ug/L	87
22) Acetonitrile	5.571	40	50836	436.88	ug/L #	79
23) Di-isopropyl ether	5.707	45	389242	43.77	ug/L	97
24) Chloroprene	5.865	53	215608	47.97	ug/L	94
25) 1,1-Dichloroethane	5.889	63	205531	44.36	ug/L	93
26) Acrylonitrile	5.918	53	150735	211.61	ug/L	96
27) ETBE	6.100	59	403792	43.13	ug/L	99
28) Vinyl acetate	6.094	43	1143558	216.67	ug/L	100
29) cis-1,2-Dichloroethene	6.465	96	121426	40.68	ug/L	85
30) 2,2-Dichloropropane	6.594	77	173747	42.82	ug/L	98
31) Bromochloromethane	6.670	128	52844	40.51	ug/L	85
32) Cyclohexane	6.717	56	198650	48.27	ug/L	97
33) Chloroform	6.729	83	221805	42.40	ug/L	94
34) Ethyl acetate	6.794	43	407184	223.58	ug/L	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\062116\
Data File : J0977356.D
Acq On : 21 Jun 2016 10:09 am
Operator : darshnap
Sample : icc5340-5 Inst : MSVOA6
Misc : MS34179,vj5340,,,,,
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 21 11:34:00 2016
Quant Method : C:\msdchem\1\methods\MSJ062116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Mon Jun 20 14:13:55 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
35) Tetrahydrofuran	6.911	42	22239	42.85	ug/L		88
37) Carbon Tetrachloride	6.917	117	171781	47.42	ug/L		98
38) 1,1,1-Trichloroethane	6.982	97	209194	46.30	ug/L		92
39) 2-Butanone	7.011	43	167435	232.22	ug/L		90
40) 1,1-Dichloropropene	7.093	75	150854	43.38	ug/L		96
41) tert-Butyl Formate	7.176	59	732948	340.32	ug/L	#	81
42) Propionitrile	7.317	54	106818	407.91	ug/L		97
43) Methacrylonitrile	7.346	41	525333	452.78	ug/L		97
44) Benzene	7.346	78	409956	43.87	ug/L		99
45) TAME	7.422	73	311314	41.01	ug/L		86
47) 1,2-Dichloroethane	7.534	62	181871	44.13	ug/L		93
48) Trichloroethene	7.922	95	112077	42.53	ug/L		92
49) Methylcyclohexane	7.945	83	190087	45.81	ug/L		99
50) Dibromomethane	8.351	93	61164	40.11	ug/L		88
51) 1,2-Dichloropropane	8.439	63	109624	42.11	ug/L		95
52) Bromodichloromethane	8.480	83	169371	46.13	ug/L		93
53) Methyl methacrylate	8.580	41	79517	44.74	ug/L		91
54) 2-Chloroethyl vinyl ether	8.991	63	303053	202.50	ug/L		95
55) cis-1,3-Dichloropropene	9.097	75	171999	41.37	ug/L		94
58) Toluene	9.338	91	444198	39.11	ug/L		97
59) 2-Nitropropane	9.543	41	129408	222.48	ug/L		99
60) 4-Methyl-2-pentanone	9.661	43	400760	213.71	ug/L		97
61) trans-1,3-Dichloropropene	9.726	75	154327	42.95	ug/L		93
62) Tetrachloroethene	9.743	166	116246	45.63	ug/L		91
63) Ethyl methacrylate	9.825	69	117508	40.44	ug/L		97
64) 1,1,2-Trichloroethane	9.890	83	71285	37.73	ug/L		89
65) Dibromochloromethane	10.084	129	106464	40.65	ug/L		98
66) 1,3-Dichloropropane	10.166	76	155857	40.16	ug/L		94
67) 1,2-Dibromoethane	10.348	107	90095	41.61	ug/L		100
68) 2-hexanone	10.478	43	268660	209.55	ug/L		98
69) 1-Chlorohexane	10.777	91	150865	42.69	ug/L		92
70) Ethylbenzene	10.848	91	534493	40.94	ug/L		95
71) Chlorobenzene	10.854	112	292616	42.80	ug/L		93
72) 1,1,1,2-Tetrachloroethane	10.901	131	99585	37.52	ug/L		97
73) m,p-Xylene	10.983	91	830796	82.52	ug/L		98
74) o-Xylene	11.424	91	436694	40.58	ug/L		97
75) Styrene	11.471	104	325524	40.25	ug/L		96
76) Bromoform	11.535	173	62359	39.51	ug/L		94
77) Isopropylbenzene	11.729	105	506695	41.43	ug/L		98
80) cis-1,4-Dichloro-2-butene	12.076	53	39988	43.50	ug/L	#	90
81) n-Propylbenzene	12.146	91	614791	41.46	ug/L		99
82) Bromobenzene	12.170	156	121591	37.11	ug/L		90
83) 1,1,2,2-Tetrachloroethane	12.205	83	107879	39.53	ug/L		95
84) 1,3,5-Trimethylbenzene	12.328	105	462445	41.90	ug/L		99
85) 2-Chlorotoluene	12.334	91	432050	40.57	ug/L		94
86) trans-1,4-Dichloro-2-B...	12.387	53	36294	45.46	ug/L	#	65
87) 1,2,3-Trichloropropane	12.370	110	33442	43.01	ug/L		94
88) Cyclohexanone	12.434	55	14242	209.85	ug/L		89
89) 4-Chlorotoluene	12.505	91	400318	41.03	ug/L		95
90) a-Methyl Styrene	12.593	118	241416	40.79	ug/L		97

SGS ACCUTEST FA34891

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\062116\
Data File : J0977356.D
Acq On : 21 Jun 2016 10:09 am
Operator : darshnap
Sample : icc5340-5 Inst : MSVOA6
Misc : MS34179,vj5340,,,,,
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 21 11:34:00 2016
Quant Method : C:\msdchem\1\methods\MSJ062116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Mon Jun 20 14:13:55 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
91) tert-Butylbenzene	12.669	91	266020	42.50	ug/L	97
92) 1,2,4-Trimethylbenzene	12.740	105	465768	40.46	ug/L	97
93) Pentachloroethane	12.722	167	73682	35.92	ug/L	92
94) sec-Butylbenzene	12.851	105	551837	42.36	ug/L	98
95) 4-Isopropyltoluene	12.986	119	469238	41.96	ug/L	94
96) 1,3-Dichlorobenzene	13.122	146	222972	38.78	ug/L	94
97) 1,4-Dichlorobenzene	13.204	146	221096	38.11	ug/L	94
98) n-Butylbenzene	13.421	92	277664	42.95	ug/L	99
99) Benzyl Chloride	13.433	126	40702	41.05	ug/L #	76
100) 1,2-Dichlorobenzene	13.633	146	212509	39.24	ug/L	95
101) 1,2-Dibromo-3-Chloropr...	14.367	75	18933	42.62	ug/L	92
102) Hexachlorobutadiene	14.914	225	87389	37.75	ug/L	82
103) 1,2,4-Trichlorobenzene	14.961	180	158489	38.50	ug/L	98
104) Naphthalene	15.243	128	269089	41.57	ug/L	94
105) 1,2,3-Trichlorobenzene	15.413	180	133270	39.01	ug/L	97
107) Ethanol	4.279	45	16985m	887.20	ug/L	
108) acrolein	4.749	56	78508m	216.59	ug/L	
109) Tert Butyl Alcohol	5.372	59	89793	430.86	ug/L	87
110) tert Amyl alcohol	7.557	59	68519	440.68	ug/L	91
111) Isobutyl alcohol	7.440	42	53368	918.51	ug/L #	80
112) 1,4-Dioxane	8.656	88	16535	954.29	ug/L	81
113) 3,3-Dimethyl-1-butanol	10.419	57	327707	2083.15	ug/L	97

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

7.6.5

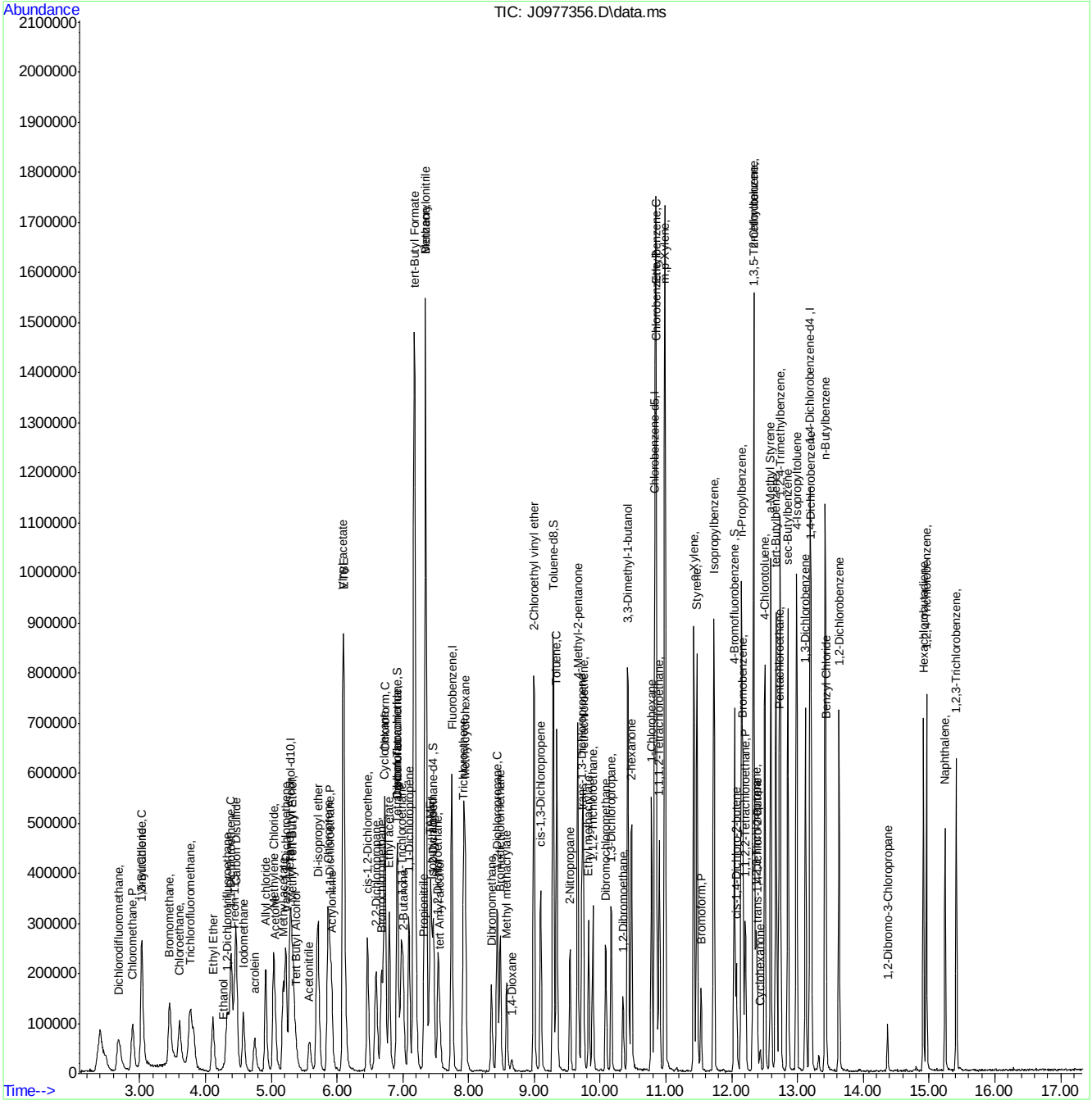
7

SGS ACCUTEST FA34891

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\062116\
Data File : J0977356.D
Acq On : 21 Jun 2016 10:09 am
Operator : darshnap
Sample : icc5340-5 Inst : MSVOA6
Misc : MS34179,vj5340,,,,,
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 21 11:34:00 2016
Quant Method : C:\msdchem\1\methods\MSJ062116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Mon Jun 20 14:13:55 2016
Response via : Initial Calibration



SGS ACCUTEST FA34891

Manual Integration Approval Summary

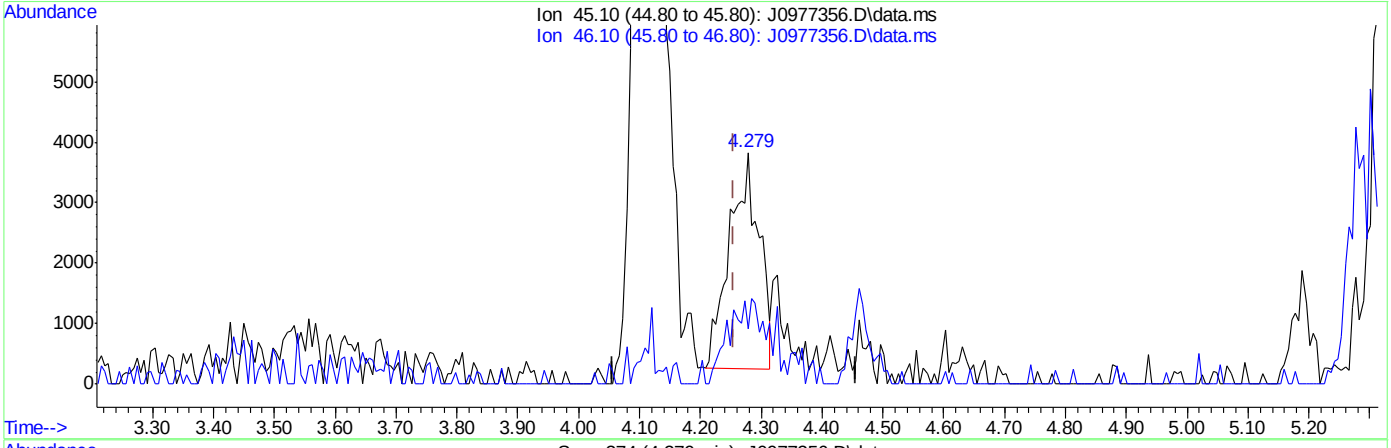
Sample Number:	VJ5340-ICC5340	**Method:**	SW846 8260B
Lab FileID:	J0977356.D	**Analyst approved:**	06/22/16 10:10 Darshna Patel
Injection Time:	06/21/16 10:09	**Supervisor approved:**	06/22/16 11:19 Juan Garcia

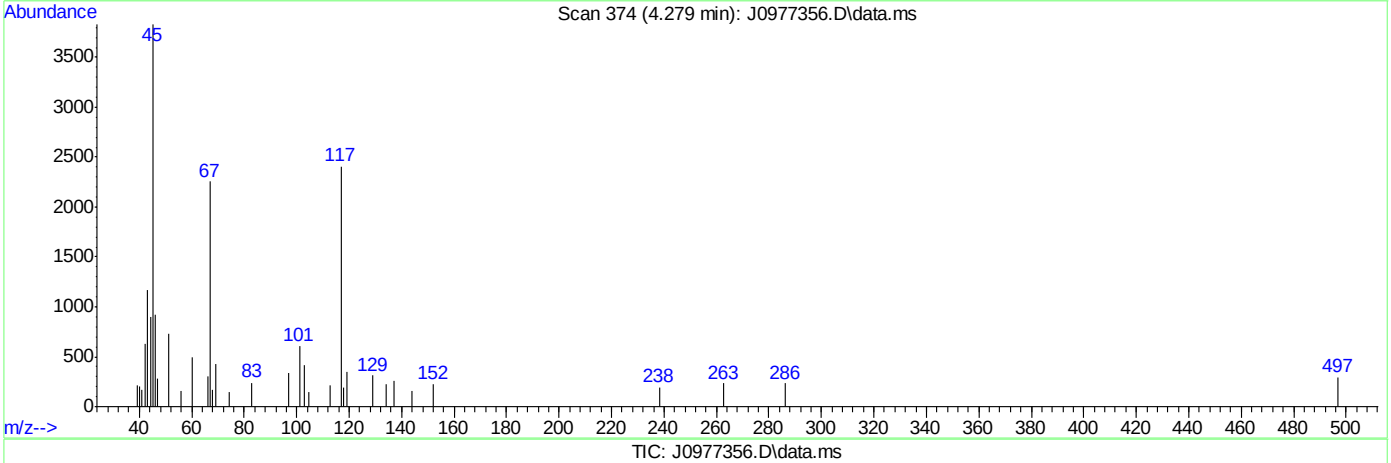
Parameter	CAS	Sig#	R.T. (min.)	Reason
Ethyl Alcohol	64-17-5		4.28	Poor instrument integration
Acrolein	107-02-8		4.75	Poor instrument integration

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\062116\
Data File : J0977356.D
Acq On : 21 Jun 2016 10:09 am
Operator : darshnap
Sample : icc5340-5 Inst : MSVOA6
Misc : MS34179,vj5340,,,,,
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 21 10:48:24 2016
Quant Method : C:\msdchem\1\methods\MSJ062116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Mon Jun 20 14:13:55 2016
Response via : Initial Calibration





TIC: J0977356.D\data.ms

(107) Ethanol

4.279min (+0.023) 629.27ug/L

response 12047

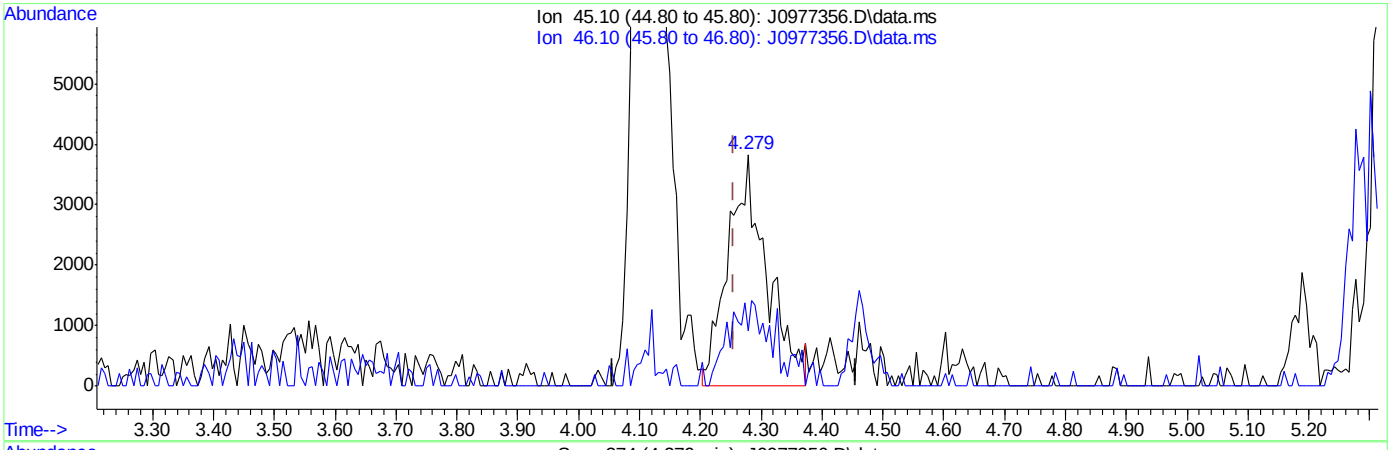
Ion	Exp%	Act%
45.10	100	100
46.10	36.70	25.74
0.00	0.00	0.00
0.00	0.00	0.00

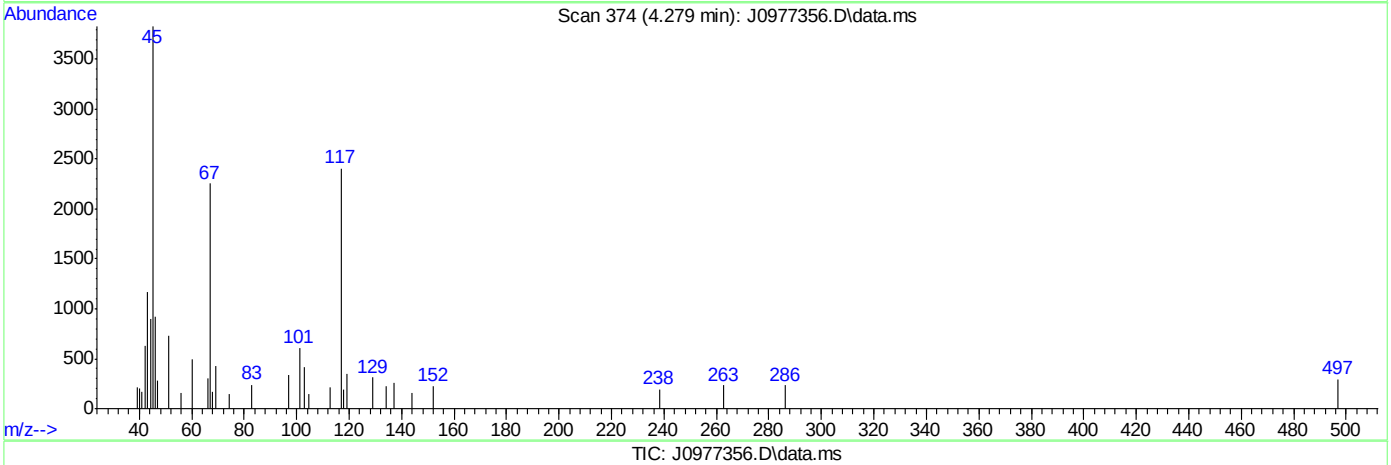
SGS ACCUTEST FA34891

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\062116\
Data File : J0977356.D
Acq On : 21 Jun 2016 10:09 am
Operator : darshnap
Sample : icc5340-5 Inst : MSVOA6
Misc : MS34179,vj5340,,,,,
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 21 10:48:24 2016
Quant Method : C:\msdchem\1\methods\MSJ062116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Mon Jun 20 14:13:55 2016
Response via : Initial Calibration





TIC: J0977356.D\data.ms

(107) Ethanol

4.279min (+0.023) 887.20ug/L m

response 16985

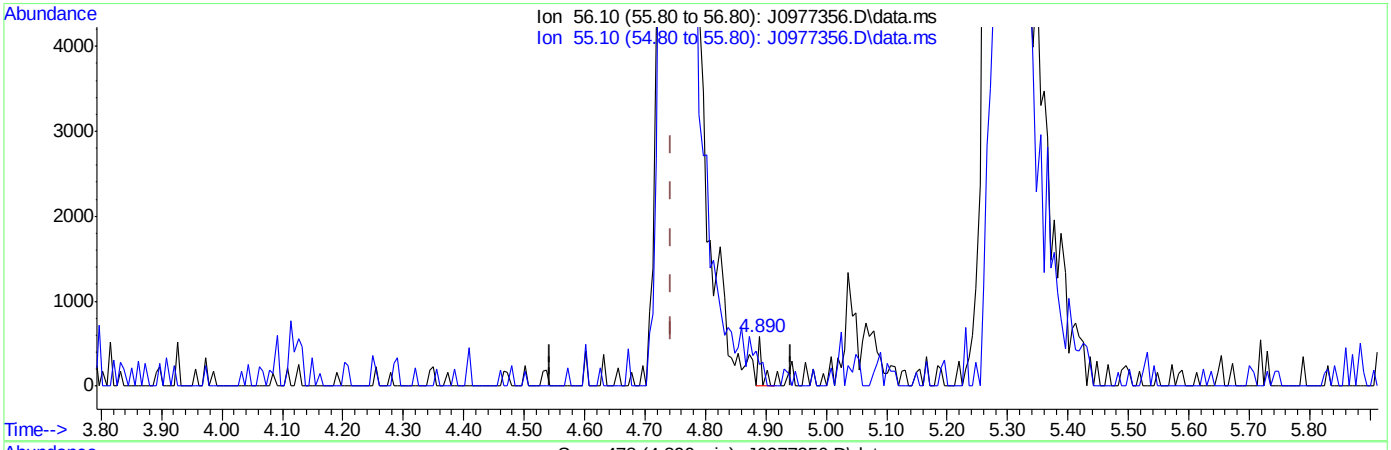
Ion	Exp%	Act%
45.10	100	100
46.10	36.70	23.92
0.00	0.00	0.00
0.00	0.00	0.00

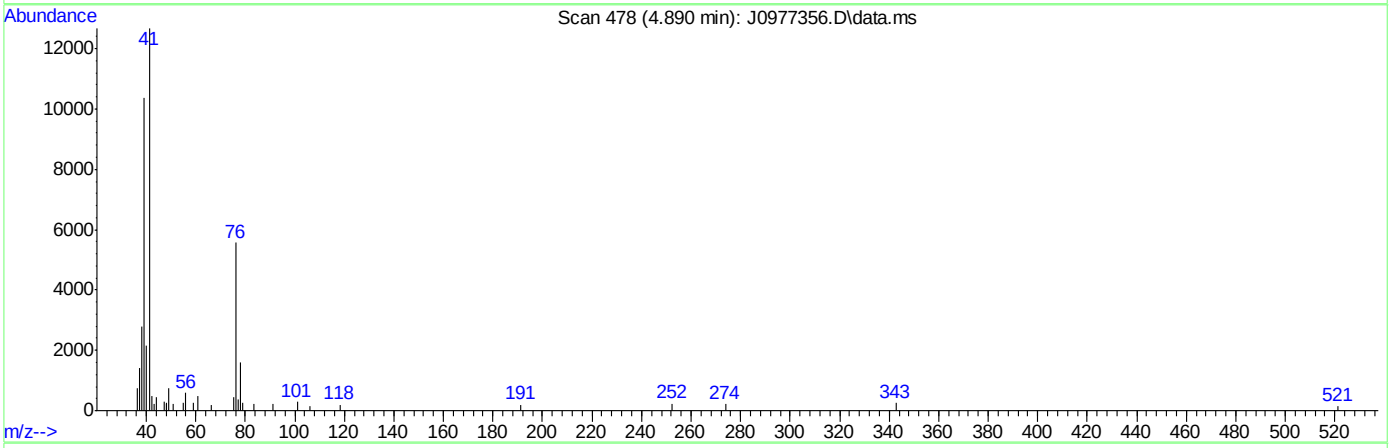
SGS ACCUTEST FA34891

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\062116\
Data File : J0977356.D
Acq On : 21 Jun 2016 10:09 am
Operator : darshnap
Sample : icc5340-5 Inst : MSVOA6
Misc : MS34179,vj5340,,,,,
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 21 10:55:14 2016
Quant Method : C:\msdchem\1\methods\MSJ062116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Mon Jun 20 14:13:55 2016
Response via : Initial Calibration





TIC: J0977356.D\data.ms

(108) acrolein

4.890min (+0.147) 0.78ug/L

response 272

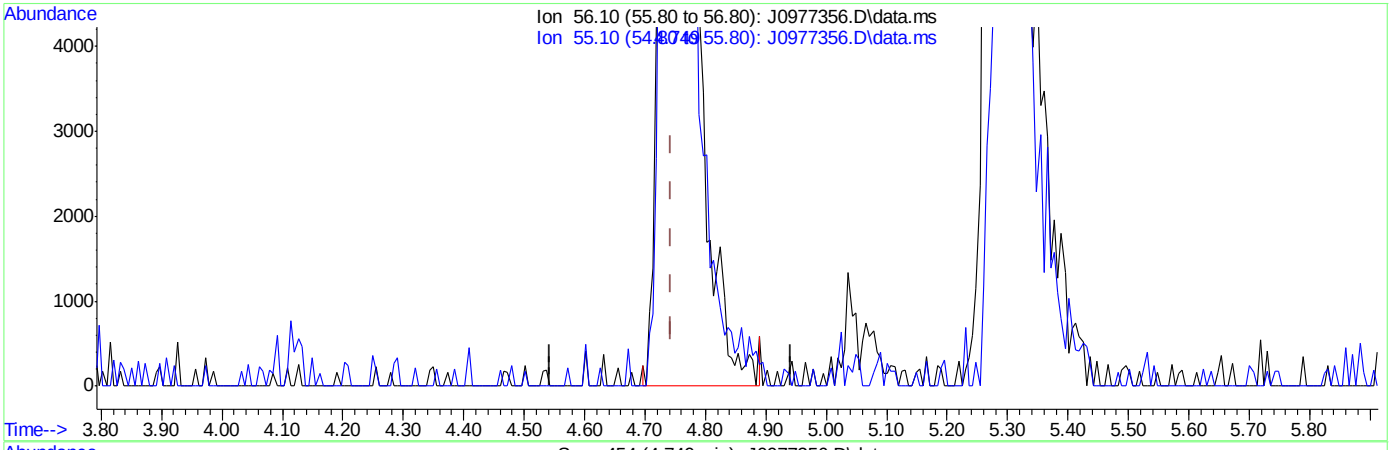
Ion	Exp%	Act%
56.10	100	100
55.10	55.10	43.64
0.00	0.00	0.00
0.00	0.00	0.00

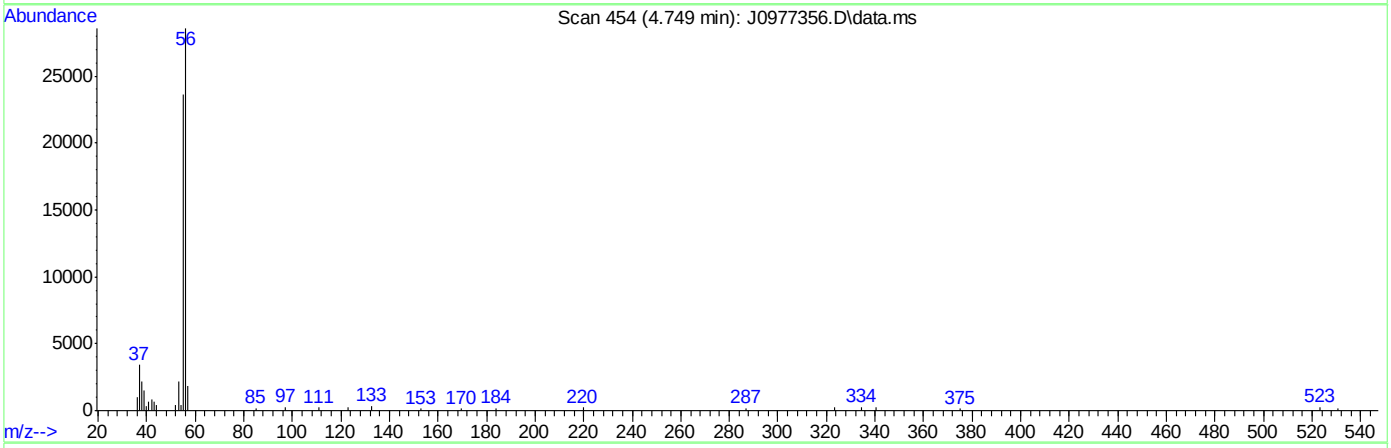
SGS ACCUTEST FA34891

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\062116\
Data File : J0977356.D
Acq On : 21 Jun 2016 10:09 am
Operator : darshnap
Sample : icc5340-5 Inst : MSVOA6
Misc : MS34179,vj5340,,,,,
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 21 10:55:14 2016
Quant Method : C:\msdchem\1\methods\MSJ062116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Mon Jun 20 14:13:55 2016
Response via : Initial Calibration





TIC: J0977356.D\data.ms

(108) acrolein

4.749min (+0.006) 216.59ug/L m

response 78508

Ion	Exp%	Act%
56.10	100	100
55.10	55.10	82.77#
0.00	0.00	0.00
0.00	0.00	0.00

SGS ACCUTEST FA34891

Manual Integrations APPROVED (compounds with "m" flag)
Juan Garcia
06/22/16 11:19

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\062116\
Data File : J0977357.D
Acq On : 21 Jun 2016 10:32 am
Operator : darshnap
Sample : ic5340-6 Inst : MSVOA6
Misc : MS34179,vj5340,,,,,
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 21 10:55:57 2016
Quant Method : C:\msdchem\1\methods\MSJ062116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Mon Jun 20 14:13:55 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.740	96	547569	50.00	ug/L	0.00
56) Chlorobenzene-d5	10.830	117	406369	50.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	13.192	152	214399	50.00	ug/L	0.00
106) Tert Butyl Alcohol-d10	5.296	65	40986	250.00	ug/L	0.00
System Monitoring Compounds						
36) Dibromofluoromethane	6.911	113	144673	52.15	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 104.30%			
46) 1,2-Dichloroethane-d4	7.464	65	210190	55.47	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 110.94%			
57) Toluene-d8	9.285	98	517499	48.42	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 96.84%			
79) 4-Bromofluorobenzene	12.041	95	202991	49.56	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 99.12%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.669	85	236915	68.44	ug/L	100
3) Chloromethane	2.887	50	246818	68.34	ug/L	80
4) Vinyl Chloride	3.028	62	241014	70.85	ug/L	100
5) 1,3-Butadiene	3.022	54	191132	82.20	ug/L	95
6) Bromomethane	3.451	94	204430	81.38	ug/L	95
7) Chloroethane	3.592	64	150825	83.19	ug/L	98
8) Trichlorofluoromethane	3.750	101	418021	74.23	ug/L	99
9) Ethyl Ether	4.109	59	183128	82.35	ug/L	89
10) 1,2-Dichlorotrifluoroe...	4.332	67	232994	81.81	ug/L	91
11) 1,1-Dichloroethene	4.379	61	336810	87.51	ug/L	93
12) Freon 113	4.444	101	203187	84.84	ug/L	94
13) Carbon Disulfide	4.455	76	664945	84.51	ug/L	99
14) Iodomethane	4.567	142	313007	77.06	ug/L	88
15) Allyl chloride	4.908	41	298860	74.92	ug/L	97
16) Methylene Chloride	5.031	49	302542	81.56	ug/L	93
17) Acetone	5.049	58	70197	397.81	ug/L	92
18) Methyl acetate	5.178	74	121072	385.47	ug/L #	72
19) trans-1,2-Dichloroethene	5.213	61	296205	80.79	ug/L	95
20) Hexane	5.284	56	196133	87.36	ug/L #	89
21) Methyl Tert Butyl Ether	5.319	73	607212	78.31	ug/L	90
22) Acetonitrile	5.578	40	94384	738.84	ug/L	95
23) Di-isopropyl ether	5.707	45	743972	78.68	ug/L	97
24) Chloroprene	5.860	53	385738	80.71	ug/L	94
25) 1,1-Dichloroethane	5.883	63	393256	79.82	ug/L	96
26) Acrylonitrile	5.907	53	273622	360.35	ug/L	94
27) ETBE	6.106	59	763322	76.67	ug/L	98
28) Vinyl acetate	6.095	43	2091627	372.68	ug/L	98
29) cis-1,2-Dichloroethene	6.459	96	236396	74.48	ug/L	90
30) 2,2-Dichloropropane	6.594	77	333768	77.36	ug/L	96
31) Bromochloromethane	6.670	128	101020	72.84	ug/L #	74
32) Cyclohexane	6.723	56	358040	81.81	ug/L	98
33) Chloroform	6.723	83	429324	77.18	ug/L	96
34) Ethyl acetate	6.788	43	738863	381.53	ug/L	97

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\062116\
Data File : J0977357.D
Acq On : 21 Jun 2016 10:32 am
Operator : darshnap
Sample : ic5340-6 Inst : MSVOA6
Misc : MS34179,vj5340,,,,,
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 21 10:55:57 2016
Quant Method : C:\msdchem\1\methods\MSJ062116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Mon Jun 20 14:13:55 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
35) Tetrahydrofuran	6.900	42	42458	74.54	ug/L	85
37) Carbon Tetrachloride	6.917	117	315462m	81.90	ug/L	
38) 1,1,1-Trichloroethane	6.982	97	394815	82.18	ug/L	98
39) 2-Butanone	7.005	43	310847	405.43	ug/L	90
40) 1,1-Dichloropropene	7.093	75	285027	77.08	ug/L	93
41) tert-Butyl Formate	7.176	59	1365639	596.31	ug/L	90
42) Propionitrile	7.317	54	208907	750.23	ug/L	94
43) Methacrylonitrile	7.346	41	971687	787.59	ug/L	98
44) Benzene	7.340	78	781224	77.69	ug/L	98
45) TAME	7.417	73	604716	74.92	ug/L	97
47) 1,2-Dichloroethane	7.534	62	348082	79.42	ug/L	99
48) Trichloroethene	7.922	95	215855	77.03	ug/L	93
49) Methylcyclohexane	7.945	83	355778	80.64	ug/L	93
50) Dibromomethane	8.345	93	122402	75.49	ug/L	95
51) 1,2-Dichloropropane	8.433	63	209910	75.83	ug/L	96
52) Bromodichloromethane	8.480	83	317707	79.35	ug/L	98
53) Methyl methacrylate	8.580	41	150776	79.78	ug/L	97
54) 2-Chloroethyl vinyl ether	8.991	63	574433	360.96	ug/L	97
55) cis-1,3-Dichloropropene	9.091	75	342677	77.51	ug/L	96
58) Toluene	9.338	91	866230	71.25	ug/L	100
59) 2-Nitropropane	9.544	41	247582	387.99	ug/L	98
60) 4-Methyl-2-pentanone	9.661	43	744436	370.80	ug/L	98
61) trans-1,3-Dichloropropene	9.720	75	295957	76.93	ug/L	99
62) Tetrachloroethene	9.743	166	225128	82.54	ug/L	92
63) Ethyl methacrylate	9.826	69	230168	73.99	ug/L	98
64) 1,1,2-Trichloroethane	9.890	83	141662	70.04	ug/L	94
65) Dibromochloromethane	10.090	129	205978	73.46	ug/L	97
66) 1,3-Dichloropropane	10.166	76	302109	72.71	ug/L	92
67) 1,2-Dibromoethane	10.349	107	172136	74.25	ug/L	93
68) 2-hexanone	10.472	43	510183	371.69	ug/L	98
69) 1-Chlorohexane	10.783	91	283472	74.92	ug/L	92
70) Ethylbenzene	10.848	91	1026184	73.42	ug/L	97
71) Chlorobenzene	10.848	112	539535	73.41	ug/L	96
72) 1,1,1,2-Tetrachloroethane	10.901	131	193458	68.07	ug/L	95
73) m,p-Xylene	10.983	91	1567617	145.43	ug/L	99
74) o-Xylene	11.424	91	839151	72.83	ug/L	98
75) Styrene	11.471	104	614971	71.03	ug/L	93
76) Bromoform	11.535	173	117066	69.29	ug/L	88
77) Isopropylbenzene	11.729	105	963214	73.57	ug/L	94
80) cis-1,4-Dichloro-2-butene	12.070	53	77151	77.62	ug/L	90
81) n-Propylbenzene	12.146	91	1160172	73.77	ug/L	100
82) Bromobenzene	12.170	156	241522	69.49	ug/L	100
83) 1,1,2,2-Tetrachloroethane	12.205	83	203174	70.18	ug/L	99
84) 1,3,5-Trimethylbenzene	12.329	105	881152	75.26	ug/L	98
85) 2-Chlorotoluene	12.334	91	818247	72.43	ug/L	97
86) trans-1,4-Dichloro-2-B...	12.387	53	70903	83.73	ug/L	80
87) 1,2,3-Trichloropropane	12.370	110	57905	70.22	ug/L	97
88) Cyclohexanone	12.434	55	24607	340.32	ug/L	83
89) 4-Chlorotoluene	12.505	91	766104	74.02	ug/L	95
90) a-Methyl Styrene	12.593	118	449372	71.58	ug/L	99

SGS ACCUTEST FA34891

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\062116\
Data File : J0977357.D
Acq On : 21 Jun 2016 10:32 am
Operator : darshnap
Sample : ic5340-6 Inst : MSVOA6
Misc : MS34179,vj5340,,,,,
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 21 10:55:57 2016
Quant Method : C:\msdchem\1\methods\MSJ062116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Mon Jun 20 14:13:55 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
91) tert-Butylbenzene	12.669	91	510378	76.88	ug/L	95
92) 1,2,4-Trimethylbenzene	12.740	105	879611	72.04	ug/L	96
93) Pentachloroethane	12.722	167	137512	63.19	ug/L	96
94) sec-Butylbenzene	12.852	105	1042378	75.43	ug/L	97
95) 4-Isopropyltoluene	12.987	119	885639	74.66	ug/L	98
96) 1,3-Dichlorobenzene	13.122	146	421517	69.12	ug/L	98
97) 1,4-Dichlorobenzene	13.204	146	434933	70.67	ug/L	92
98) n-Butylbenzene	13.416	92	529267	77.18	ug/L	86
99) Benzyl Chloride	13.433	126	74805	71.12	ug/L #	76
100) 1,2-Dichlorobenzene	13.633	146	406166	70.71	ug/L	93
101) 1,2-Dibromo-3-Chloropr...	14.367	75	34625	71.41	ug/L	93
102) Hexachlorobutadiene	14.914	225	174031	70.88	ug/L	93
103) 1,2,4-Trichlorobenzene	14.961	180	301442	69.03	ug/L	96
104) Naphthalene	15.243	128	499097	72.69	ug/L	97
105) 1,2,3-Trichlorobenzene	15.413	180	250864	69.22	ug/L	97
107) Ethanol	4.267	45	31231m	1575.45	ug/L	
108) acrolein	4.743	56	149386	385.60	ug/L	80
109) Tert Butyl Alcohol	5.372	59	160136	742.06	ug/L	96
110) tert Amyl alcohol	7.558	59	126432	760.08	ug/L	89
111) Isobutyl alcohol	7.440	42	98294	1589.17	ug/L	94
112) 1,4-Dioxane	8.656	88	28315	1521.33	ug/L	83
113) 3,3-Dimethyl-1-butanol	10.419	57	605746	3590.95	ug/L	95

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

7.6.6

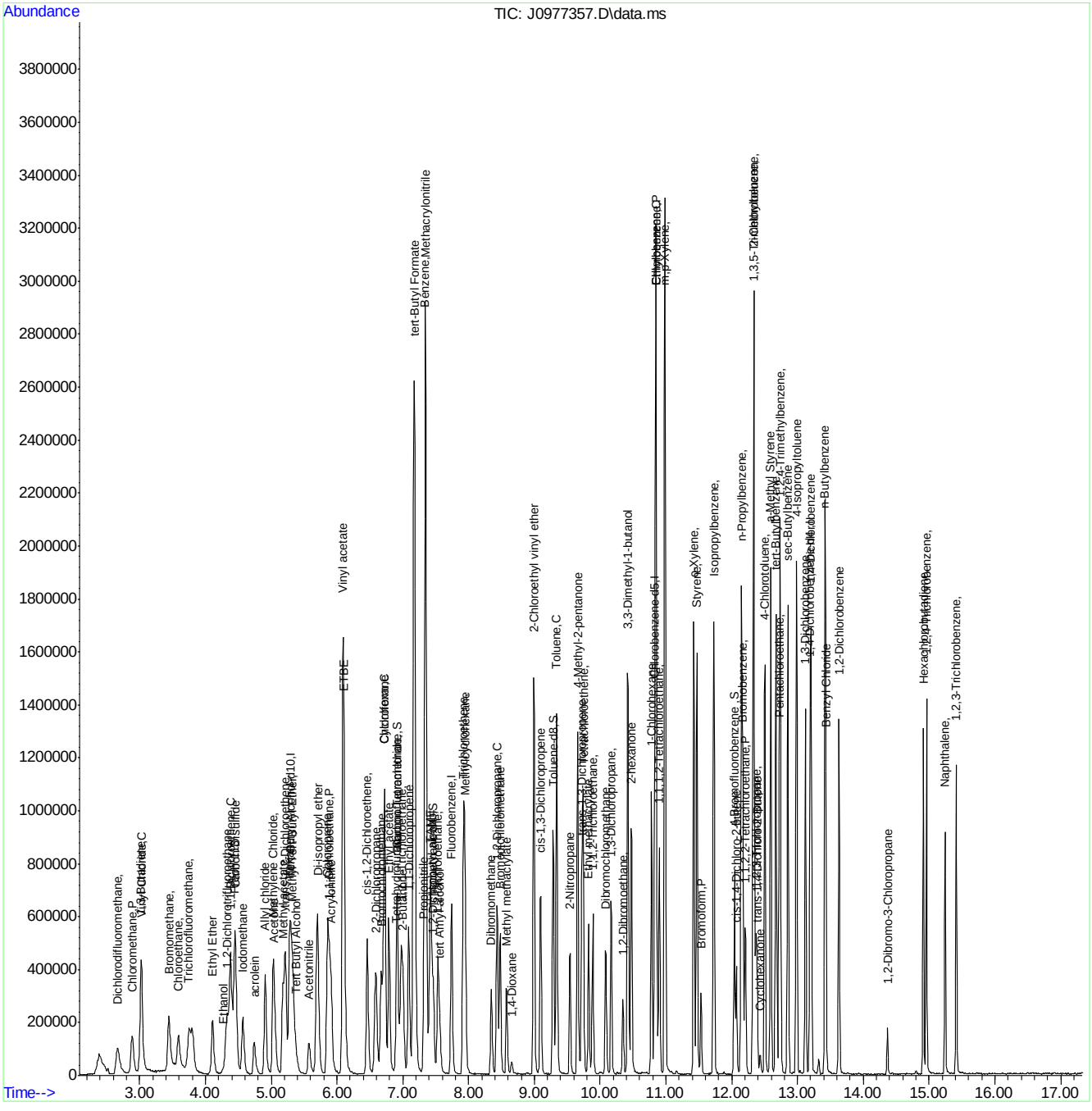
7

SGS ACCUTEST FA34891

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\062116\
Data File : J0977357.D
Acq On : 21 Jun 2016 10:32 am
Operator : darshnap
Sample : ic5340-6 Inst : MSVOA6
Misc : MS34179,vj5340,,,,,
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 21 10:55:57 2016
Quant Method : C:\msdchem\1\methods\MSJ062116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Mon Jun 20 14:13:55 2016
Response via : Initial Calibration



SGS ACCUTEST FA34891

Manual Integration Approval Summary

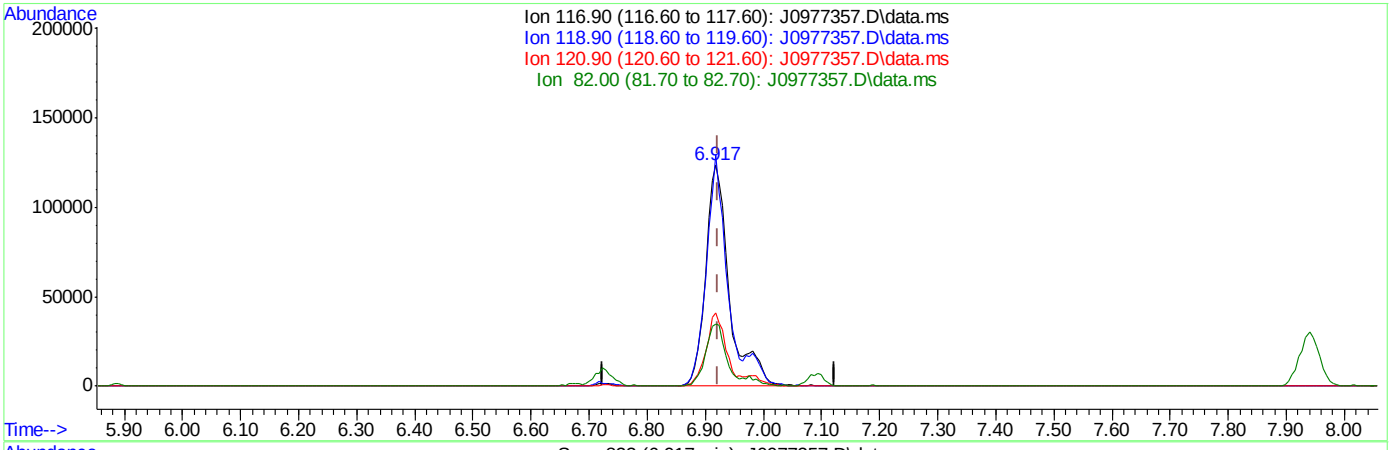
Sample Number:	VJ5340-IC5340	**Method:**	SW846 8260B
Lab FileID:	J0977357.D	**Analyst approved:**	06/22/16 10:10 Darshna Patel
Injection Time:	06/21/16 10:32	**Supervisor approved:**	06/22/16 11:19 Juan Garcia

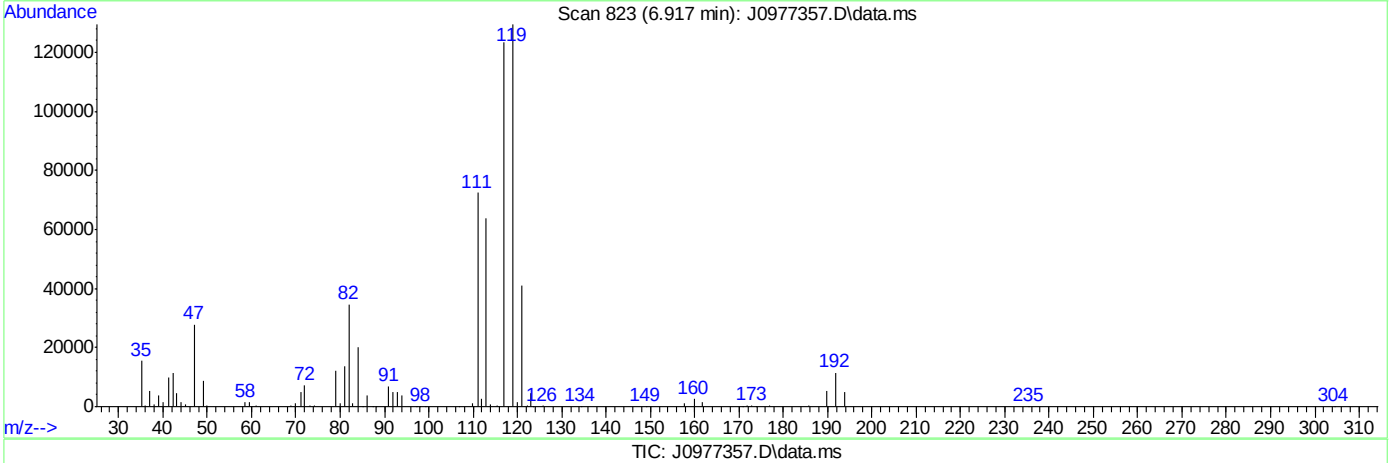
Parameter	CAS	Sig#	R.T. (min.)	Reason
Ethyl Alcohol	64-17-5		4.27	Poor instrument integration
Carbon Tetrachloride	56-23-5		6.92	Overlapping peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\062116\
Data File : J0977357.D
Acq On : 21 Jun 2016 10:32 am
Operator : darshnap
Sample : ic5340-6 Inst : MSVOA6
Misc : MS34179,vj5340,,,,,
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 21 10:55:31 2016
Quant Method : C:\msdchem\1\methods\MSJ062116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Mon Jun 20 14:13:55 2016
Response via : Initial Calibration





TIC: J0977357.D\data.ms

(37) Carbon Tetrachloride ( )

6.917min (-0.006) 91.88ug/L

response 353932

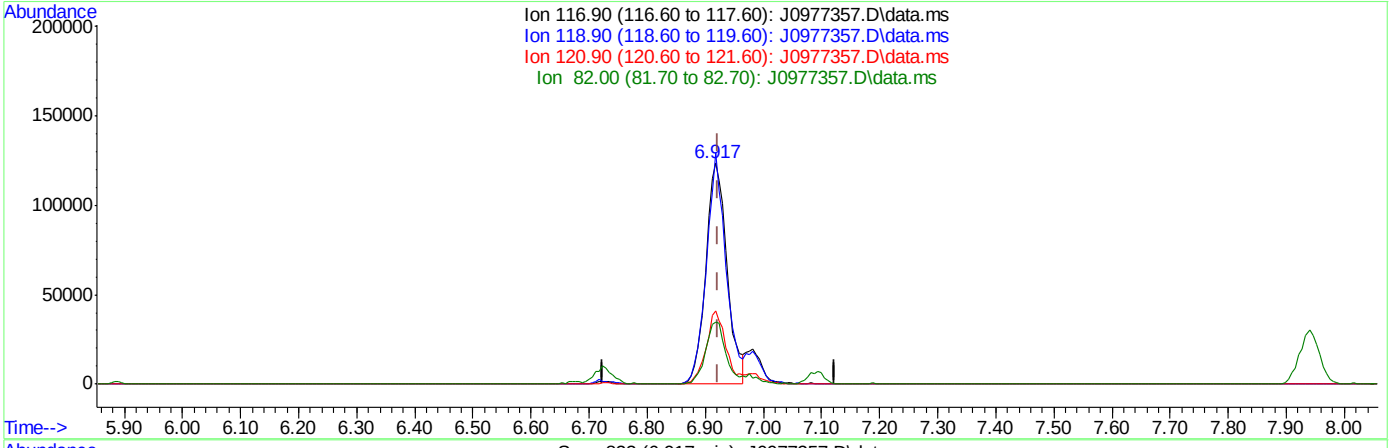
Ion	Exp%	Act%
116.90	100	100
118.90	93.00	104.85
120.90	28.00	33.22
82.00	26.30	27.74

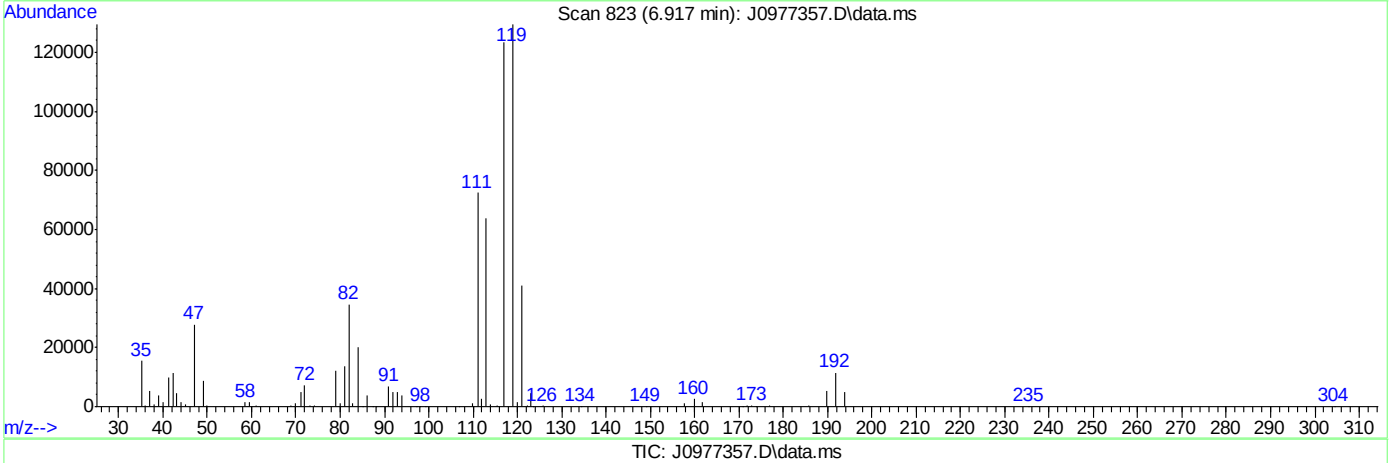
SGS ACCUTEST FA34891

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\062116\
Data File : J0977357.D
Acq On : 21 Jun 2016 10:32 am
Operator : darshnap
Sample : ic5340-6 Inst : MSVOA6
Misc : MS34179,vj5340,,,,,
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 21 10:55:31 2016
Quant Method : C:\msdchem\1\methods\MSJ062116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Mon Jun 20 14:13:55 2016
Response via : Initial Calibration





(37) Carbon Tetrachloride ( )

6.917min (-0.006) 81.90ug/L m

response 315462

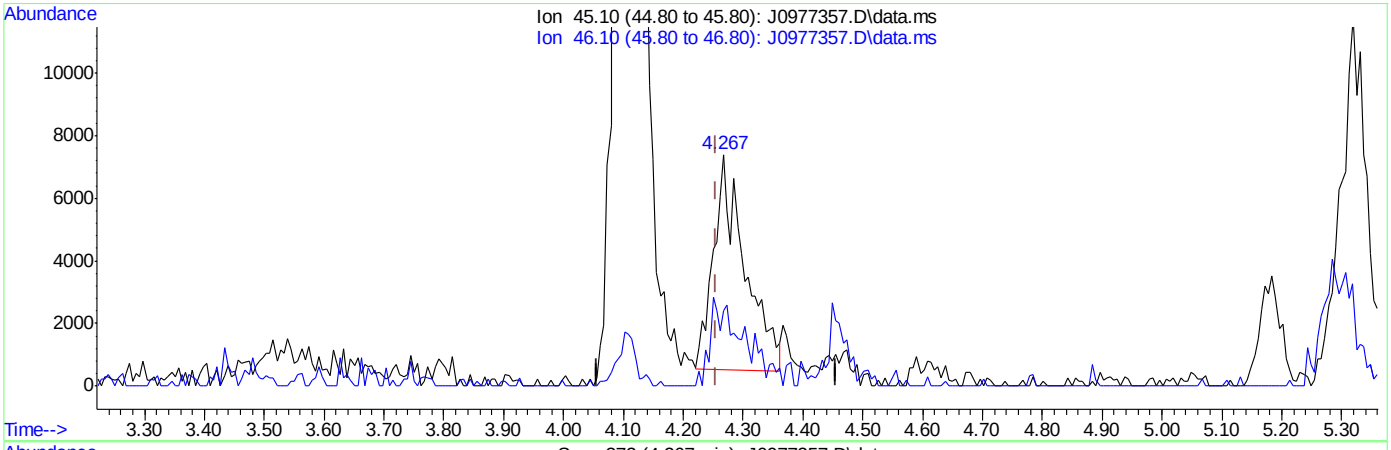
Ion	Exp%	Act%
116.90	100	100
118.90	93.00	104.85
120.90	28.00	33.22
82.00	26.30	28.03

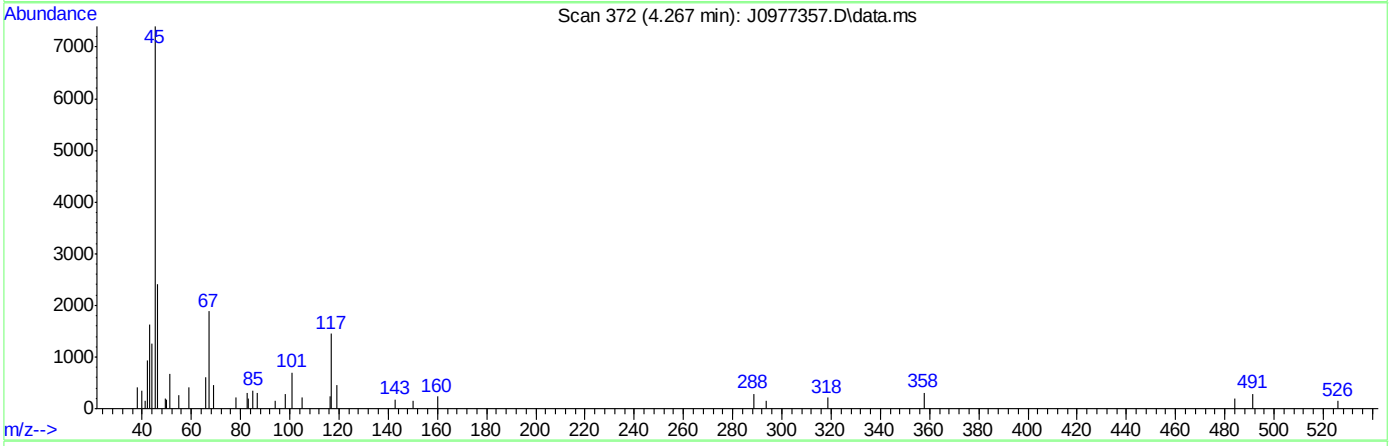
SGS ACCUTEST FA34891

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\062116\
Data File : J0977357.D
Acq On : 21 Jun 2016 10:32 am
Operator : darshnap
Sample : ic5340-6 Inst : MSVOA6
Misc : MS34179,vj5340,,,,,
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 21 10:55:31 2016
Quant Method : C:\msdchem\1\methods\MSJ062116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Mon Jun 20 14:13:55 2016
Response via : Initial Calibration





TIC: J0977357.D\data.ms

(107) Ethanol

4.267min (+0.011) 1251.09ug/L

response 24801

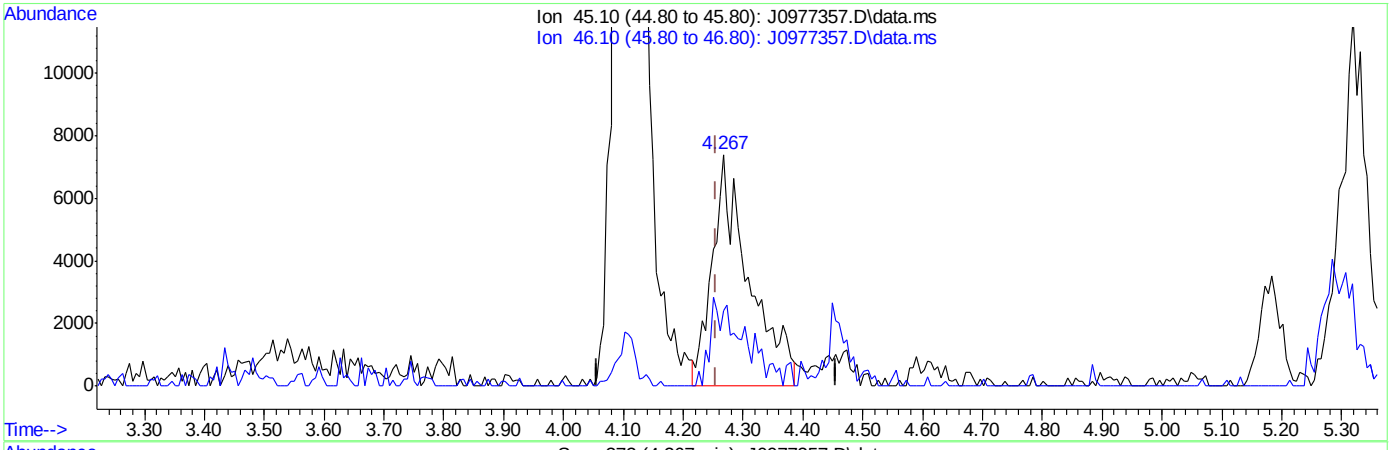
Ion	Exp%	Act%
45.10	100	100
46.10	36.70	35.57
0.00	0.00	0.00
0.00	0.00	0.00

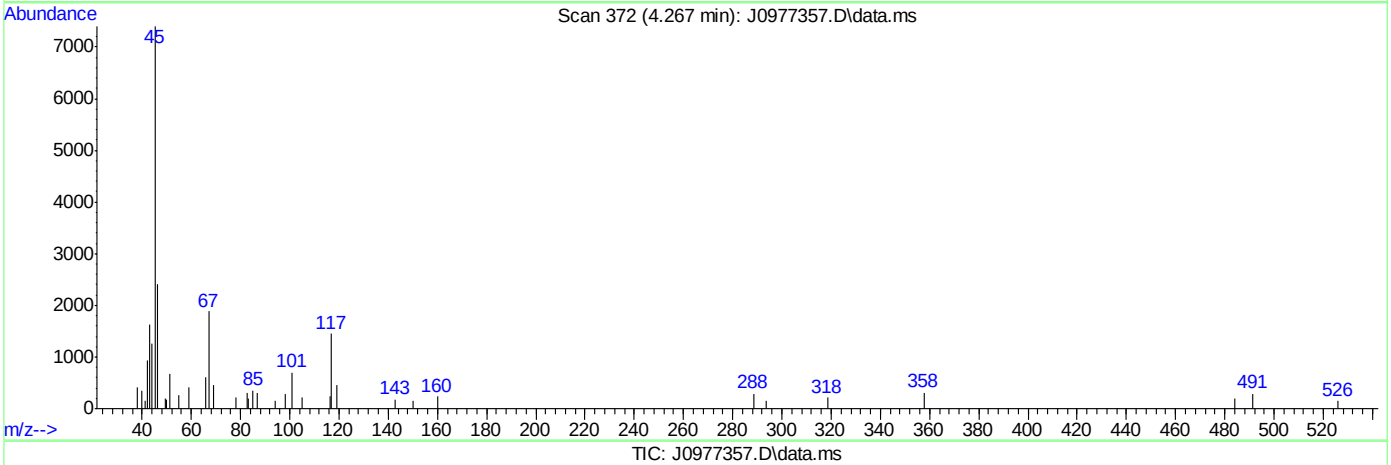
SGS ACCUTEST FA34891

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\062116\
Data File : J0977357.D
Acq On : 21 Jun 2016 10:32 am
Operator : darshnap
Sample : ic5340-6 Inst : MSVOA6
Misc : MS34179,vj5340,,,,,
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 21 10:55:31 2016
Quant Method : C:\msdchem\1\methods\MSJ062116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Mon Jun 20 14:13:55 2016
Response via : Initial Calibration





TIC: J0977357.D\data.ms

(107) Ethanol

4.267min (+0.011) 1575.45ug/L m

response 31231

Ion	Exp%	Act%
45.10	100	100
46.10	36.70	32.68
0.00	0.00	0.00
0.00	0.00	0.00

SGS ACCUTEST FA34891

J0977358.D

Manual Integrations APPROVED (compounds with "m" flag)

Juan Garcia
06/22/16 11:19

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\062116\
Data File : J0977358.D
Acq On : 21 Jun 2016 10:55 am
Operator : darshnap
Sample : ic5340-7 Inst : MSVOA6
Misc : MS34179,vj5340,,,,,
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 21 11:26:08 2016
Quant Method : C:\msdchem\1\methods\MSJ062116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Mon Jun 20 14:13:55 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.746	96	583271	50.00	ug/L	0.00
56) Chlorobenzene-d5	10.830	117	432353	50.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	13.192	152	240826	50.00	ug/L	0.00
106) Tert Butyl Alcohol-d10	5.301	65	44140	250.00	ug/L	0.01
System Monitoring Compounds						
36) Dibromofluoromethane	6.917	113	147826	50.02	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 100.04%			
46) 1,2-Dichloroethane-d4	7.469	65	217565	53.90	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 107.80%			
57) Toluene-d8	9.285	98	558698	49.13	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 98.26%			
79) 4-Bromofluorobenzene	12.041	95	259781	56.47	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 112.94%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.681	85	372473	96.06	ug/L	96
3) Chloromethane	2.904	50	391245	100.25	ug/L	82
4) Vinyl Chloride	3.045	62	375236	100.27	ug/L	97
5) 1,3-Butadiene	3.033	54	263041	109.90	ug/L	94
6) Bromomethane	3.462	94	297423	110.82	ug/L	97
7) Chloroethane	3.603	64	200995	108.93	ug/L	97
8) Trichlorofluoromethane	3.809	101	649737	103.44	ug/L	93
9) Ethyl Ether	4.114	59	283274	119.59	ug/L	94
10) 1,2-Dichlorotrifluoroe...	4.344	67	340780	112.34	ug/L	95
11) 1,1-Dichloroethene	4.391	61	467746	113.79	ug/L	96
12) Freon 113	4.444	101	287535	111.40	ug/L	97
13) Carbon Disulfide	4.461	76	952242	113.62	ug/L	99
14) Iodomethane	4.573	142	459856	106.28	ug/L	92
15) Allyl chloride	4.919	41	432233	101.73	ug/L	95
16) Methylene Chloride	5.037	49	448260	115.82	ug/L	93
17) Acetone	5.066	58	100728	534.81	ug/L	95
18) Methyl acetate	5.184	74	184079	541.93	ug/L #	82
19) trans-1,2-Dichloroethene	5.225	61	422932	108.30	ug/L	100
20) Hexane	5.290	56	282422	118.10	ug/L #	88
21) Methyl Tert Butyl Ether	5.325	73	899910	108.95	ug/L	90
22) Acetonitrile	5.583	40	139310	996.99	ug/L	92
23) Di-isopropyl ether	5.707	45	1089353	108.15	ug/L	97
24) Chloroprene	5.865	53	556223	109.25	ug/L	94
25) 1,1-Dichloroethane	5.889	63	580985	110.70	ug/L	99
26) Acrylonitrile	5.918	53	411224	507.19	ug/L	97
27) ETBE	6.106	59	1151108	108.55	ug/L	96
28) Vinyl acetate	6.100	43	3060253	511.90	ug/L	99
29) cis-1,2-Dichloroethene	6.465	96	343962	101.73	ug/L	90
30) 2,2-Dichloropropane	6.594	77	482144	104.91	ug/L	99
31) Bromochloromethane	6.676	128	152333	103.11	ug/L #	76
32) Cyclohexane	6.723	56	516355	110.76	ug/L	91
33) Chloroform	6.729	83	623716	105.27	ug/L	95
34) Ethyl acetate	6.794	43	1128242	546.93	ug/L	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\062116\
Data File : J0977358.D
Acq On : 21 Jun 2016 10:55 am
Operator : darshnap
Sample : ic5340-7 Inst : MSVOA6
Misc : MS34179,vj5340,,,,,
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 21 11:26:08 2016
Quant Method : C:\msdchem\1\methods\MSJ062116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Mon Jun 20 14:13:55 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
35) Tetrahydrofuran	6.905	42	65341	104.62 ug/L	97
37) Carbon Tetrachloride	6.923	117	462866m	112.81 ug/L	
38) 1,1,1-Trichloroethane	6.988	97	560122	109.45 ug/L	96
39) 2-Butanone	7.011	43	457559	560.25 ug/L	95
40) 1,1-Dichloropropene	7.093	75	415530	105.50 ug/L	94
41) tert-Butyl Formate	7.182	59	2141385	877.80 ug/L	92
42) Propionitrile	7.323	54	320268	1079.75 ug/L	83
43) Methacrylonitrile	7.352	41	1407542	1071.03 ug/L	98
44) Benzene	7.346	78	1157772	106.98 ug/L	99
45) TAME	7.422	73	890541	103.58 ug/L	94
47) 1,2-Dichloroethane	7.540	62	506563	108.51 ug/L	99
48) Trichloroethene	7.922	95	313533	105.04 ug/L	98
49) Methylcyclohexane	7.945	83	514554	109.48 ug/L	95
50) Dibromomethane	8.351	93	190499	110.30 ug/L	92
51) 1,2-Dichloropropane	8.439	63	310957	105.46 ug/L	96
52) Bromodichloromethane	8.480	83	468934	107.66 ug/L	98
53) Methyl methacrylate	8.580	41	219362	108.96 ug/L	96
54) 2-Chloroethyl vinyl ether	8.991	63	857046	505.58 ug/L	94
55) cis-1,3-Dichloropropene	9.097	75	501217	106.43 ug/L	95
58) Toluene	9.338	91	1240007	95.86 ug/L	98
59) 2-Nitropropane	9.543	41	370174	533.89 ug/L	97
60) 4-Methyl-2-pentanone	9.661	43	1117704	523.26 ug/L	97
61) trans-1,3-Dichloropropene	9.726	75	452405	110.53 ug/L	97
62) Tetrachloroethene	9.743	166	322842	111.25 ug/L	92
63) Ethyl methacrylate	9.826	69	340966	103.02 ug/L	95
64) 1,1,2-Trichloroethane	9.890	83	205919	95.68 ug/L	96
65) Dibromochloromethane	10.084	129	305198	102.30 ug/L	97
66) 1,3-Dichloropropane	10.166	76	456264	103.22 ug/L	99
67) 1,2-Dibromoethane	10.348	107	258753	104.91 ug/L	89
68) 2-hexanone	10.478	43	778879	533.35 ug/L	94
69) 1-Chlorohexane	10.783	91	407237	101.16 ug/L	87
70) Ethylbenzene	10.848	91	1504662	101.19 ug/L	97
71) Chlorobenzene	10.854	112	799983	101.90 ug/L	97
72) 1,1,1,2-Tetrachloroethane	10.901	131	299389	99.02 ug/L	93
73) m,p-Xylene	10.983	91	2257057	196.81 ug/L	96
74) o-Xylene	11.424	91	1228863	100.24 ug/L	98
75) Styrene	11.471	104	916919	99.54 ug/L	95
76) Bromoform	11.535	173	185414	103.15 ug/L	94
77) Isopropylbenzene	11.729	105	1413694	101.49 ug/L	95
80) cis-1,4-Dichloro-2-butene	12.076	53	130535	114.57 ug/L #	72
81) n-Propylbenzene	12.152	91	1795366	101.63 ug/L	83
82) Bromobenzene	12.170	156	358247	91.76 ug/L	88
83) 1,1,2,2-Tetrachloroethane	12.211	83	333695	102.62 ug/L	90
84) 1,3,5-Trimethylbenzene	12.329	105	1437308	109.29 ug/L	98
85) 2-Chlorotoluene	12.334	91	1305788	102.91 ug/L	95
86) trans-1,4-Dichloro-2-B...	12.387	53	101944	107.17 ug/L	87
87) 1,2,3-Trichloropropane	12.370	110	98164	105.97 ug/L	85
88) Cyclohexanone	12.434	55	42043	514.64 ug/L #	68
89) 4-Chlorotoluene	12.505	91	1119697	96.31 ug/L	97
90) a-Methyl Styrene	12.599	118	732077	103.81 ug/L	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\062116\
Data File : J0977358.D
Acq On : 21 Jun 2016 10:55 am
Operator : darshnap
Sample : ic5340-7 Inst : MSVOA6
Misc : MS34179,vj5340,,,,,
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 21 11:26:08 2016
Quant Method : C:\msdchem\1\methods\MSJ062116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Mon Jun 20 14:13:55 2016
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
91)	tert-Butylbenzene	12.669	91	735929	98.69	ug/L		97
92)	1,2,4-Trimethylbenzene	12.740	105	1293168	94.28	ug/L		94
93)	Pentachloroethane	12.722	167	207426	84.86	ug/L	#	59
94)	sec-Butylbenzene	12.857	105	1648385	106.20	ug/L		97
95)	4-Isopropyltoluene	12.987	119	1310227	98.33	ug/L		97
96)	1,3-Dichlorobenzene	13.122	146	644425	94.08	ug/L		99
97)	1,4-Dichlorobenzene	13.210	146	641731	92.83	ug/L		93
98)	n-Butylbenzene	13.421	92	798983	103.72	ug/L		94
99)	Benzyl Chloride	13.433	126	131994	111.72	ug/L	#	71
100)	1,2-Dichlorobenzene	13.633	146	653941	101.35	ug/L		94
101)	1,2-Dibromo-3-Chloropr...	14.367	75	59181	105.18	ug/L		88
102)	Hexachlorobutadiene	14.914	225	297244	107.78	ug/L		91
103)	1,2,4-Trichlorobenzene	14.961	180	524300	106.88	ug/L		88
104)	Naphthalene	15.243	128	940828	121.99	ug/L		93
105)	1,2,3-Trichlorobenzene	15.413	180	436070	107.12	ug/L		81
107)	Ethanol	4.285	45	44116m	2066.42	ug/L		
108)	acrolein	4.749	56	226068	527.97	ug/L		83
109)	Tert Butyl Alcohol	5.384	59	250237	1076.73	ug/L		90
110)	tert Amyl alcohol	7.563	59	196032	1062.06	ug/L		84
111)	Isobutyl alcohol	7.446	42	148842	2181.82	ug/L	#	88
112)	1,4-Dioxane	8.656	88	43973	2114.20	ug/L		98
113)	3,3-Dimethyl-1-butanol	10.425	57	1009418	5343.14	ug/L		94

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

7.6.7

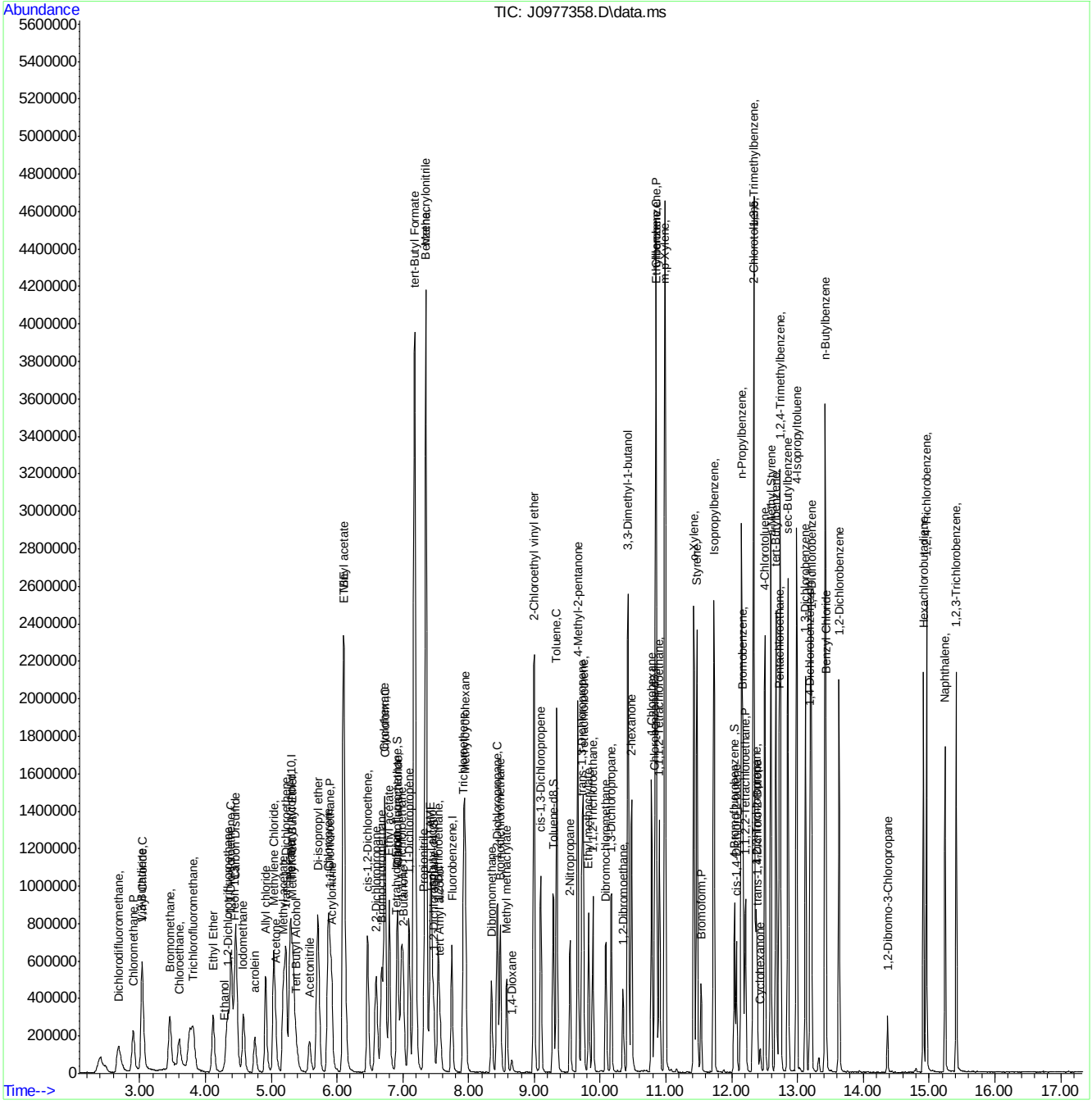
7

SGS ACCUTEST FA34891

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\062116\
Data File : J0977358.D
Acq On : 21 Jun 2016 10:55 am
Operator : darshnap
Sample : ic5340-7 Inst : MSVOA6
Misc : MS34179,vj5340,,,,,
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 21 11:26:08 2016
Quant Method : C:\msdchem\1\methods\MSJ062116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Mon Jun 20 14:13:55 2016
Response via : Initial Calibration



SGS ACCUTEST FA34891

Manual Integration Approval Summary

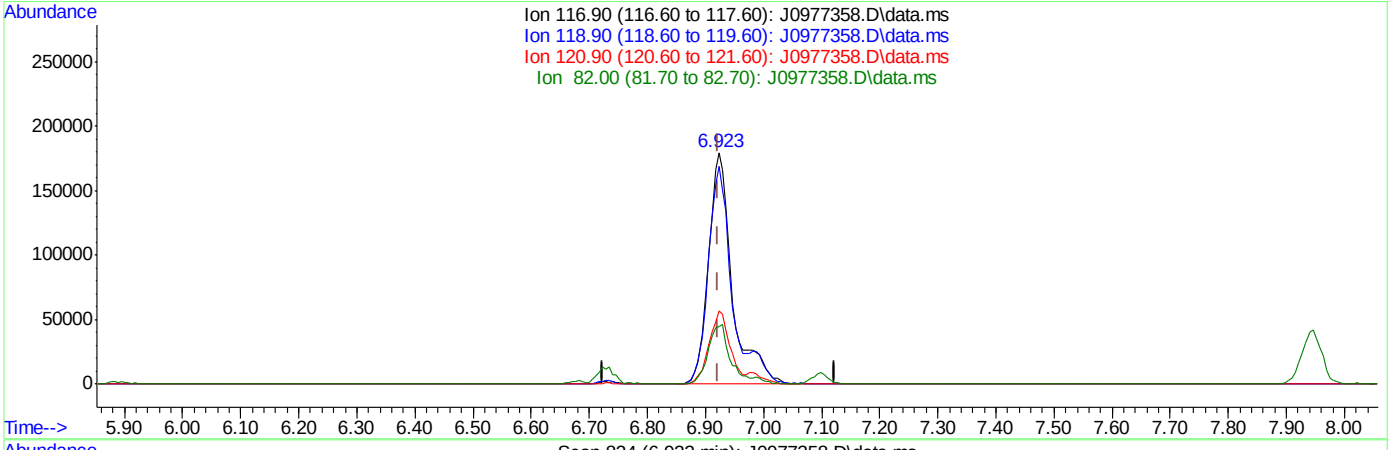
Sample Number:	VJ5340-IC5340	**Method:**	SW846 8260B
Lab FileID:	J0977358.D	**Analyst approved:**	06/22/16 10:10 Darshna Patel
Injection Time:	06/21/16 10:55	**Supervisor approved:**	06/22/16 11:19 Juan Garcia

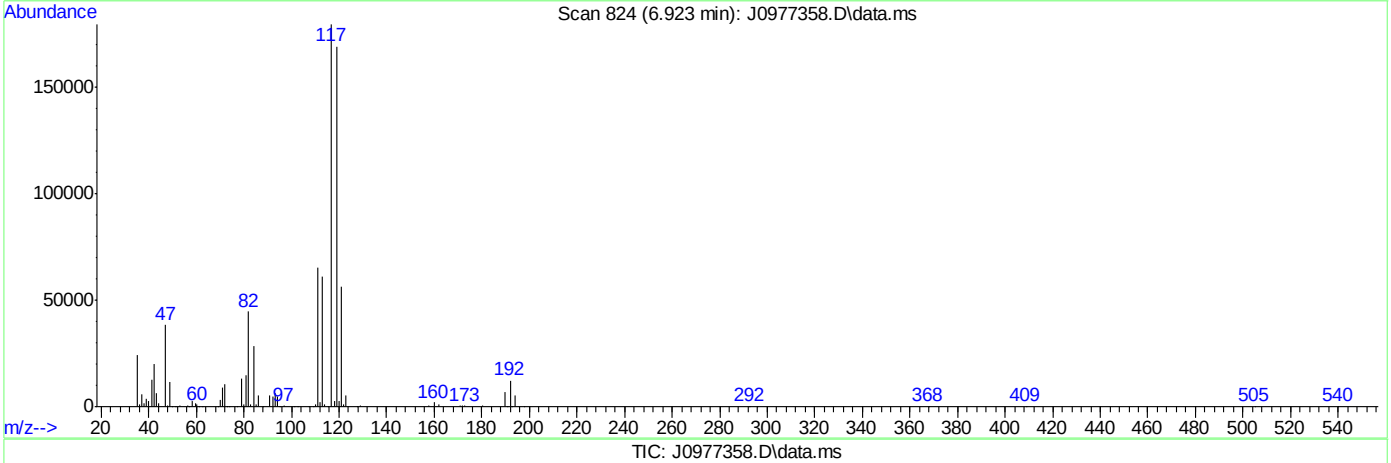
Parameter	CAS	Sig#	R.T. (min.)	Reason
Ethyl Alcohol	64-17-5		4.28	Poor instrument integration
Carbon Tetrachloride	56-23-5		6.92	Overlapping peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\062116\
Data File : J0977358.D
Acq On : 21 Jun 2016 10:55 am
Operator : darshnap
Sample : ic5340-7 Inst : MSVOA6
Misc : MS34179,vj5340,,,,,
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 21 11:25:50 2016
Quant Method : C:\msdchem\1\methods\MSJ062116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Mon Jun 20 14:13:55 2016
Response via : Initial Calibration





TIC: J0977358.D\data.ms

(37) Carbon Tetrachloride ( )

6.923min (0.000) 125.87ug/L

response 516469

Ion	Exp%	Act%
116.90	100	100
118.90	93.00	94.02
120.90	28.00	31.41
82.00	26.30	24.90

SGS ACCUTEST FA34891

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\062116\
Data File : J0977358.D
Acq On : 21 Jun 2016 10:55 am
Operator : darshnap
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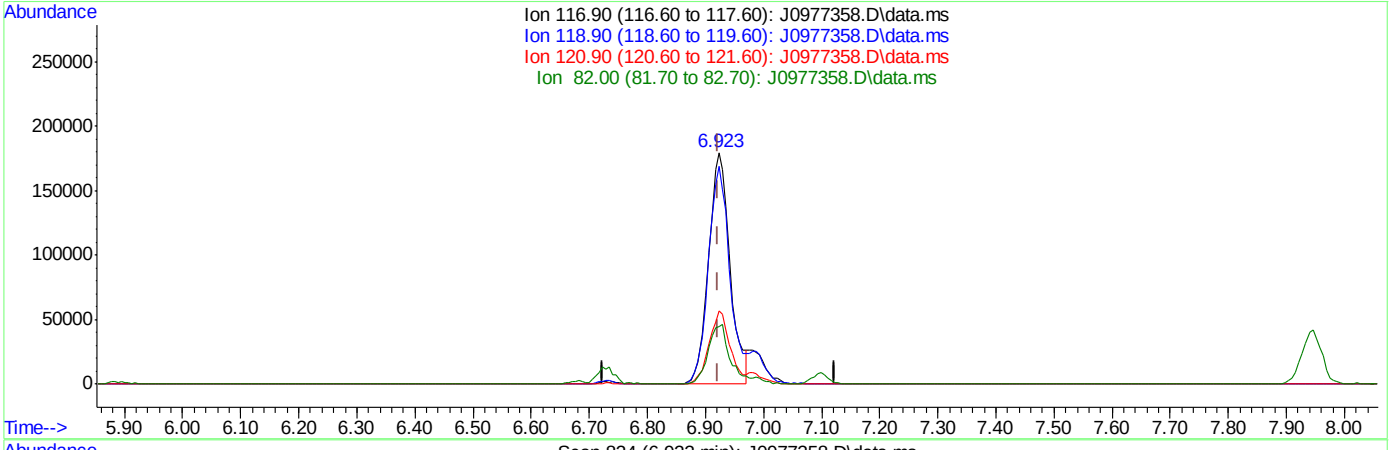
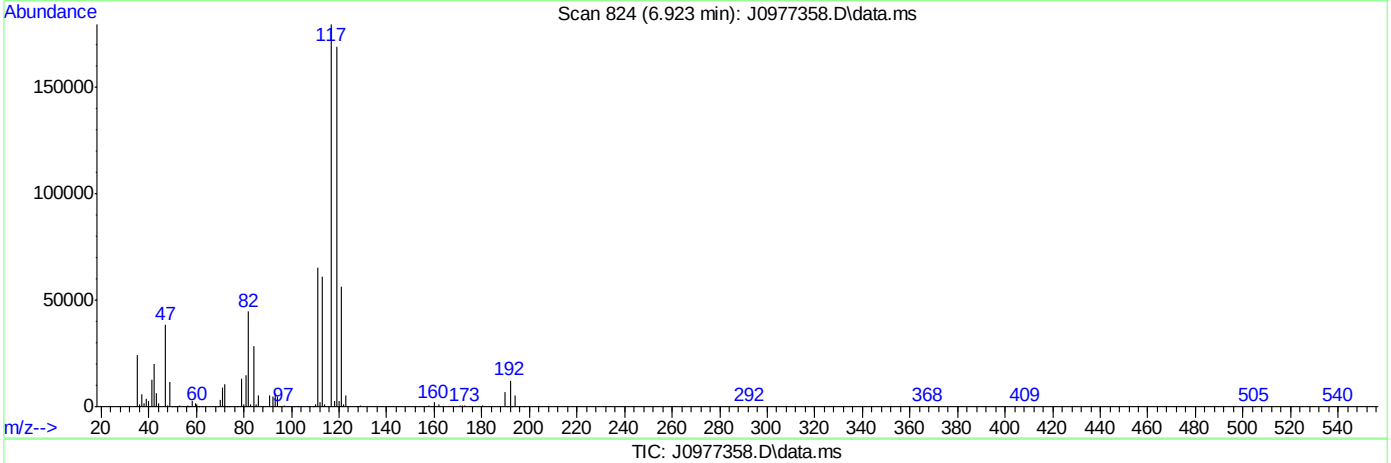




TIC: J0977358.D\data.ms

(37) Carbon Tetrachloride ( )

6.923min (0.000) 112.81ug/L m

response 462866

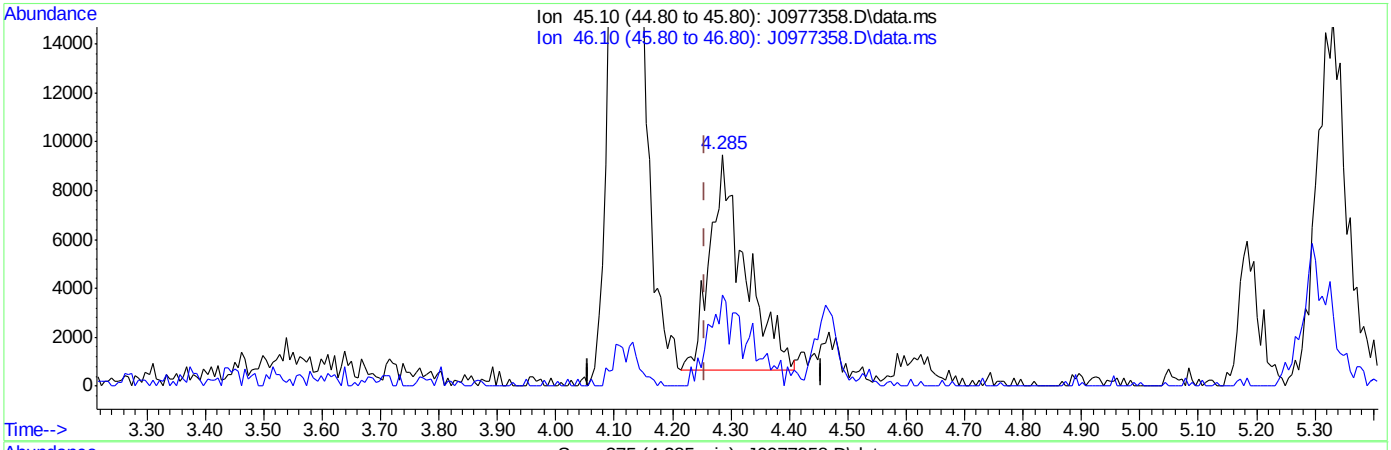
Ion	Exp%	Act%
116.90	100	100
118.90	93.00	94.02
120.90	28.00	31.41
82.00	26.30	24.90

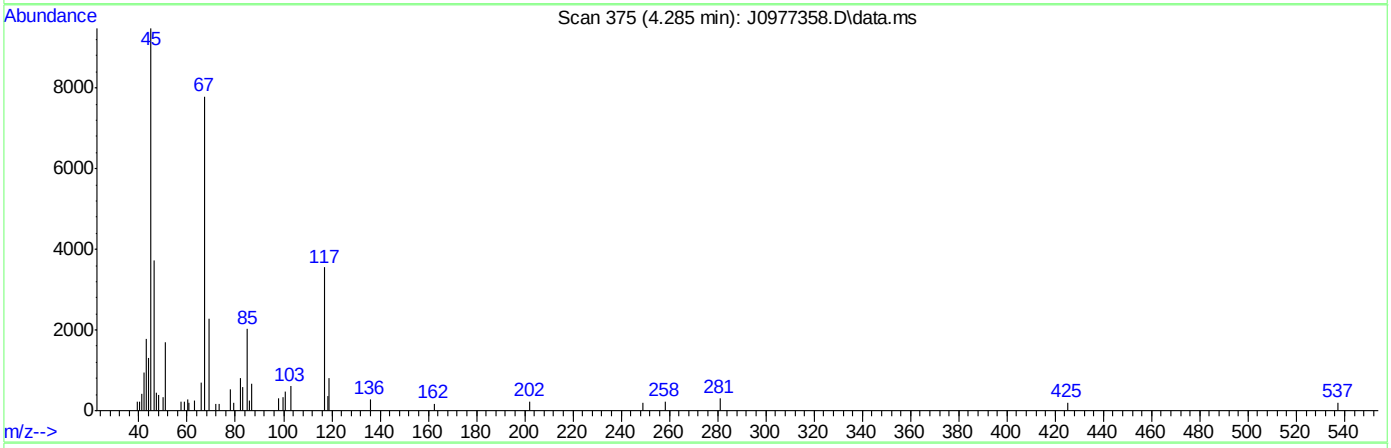
SGS ACCUTEST FA34891

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\062116\
Data File : J0977358.D
Acq On : 21 Jun 2016 10:55 am
Operator : darshnap
Sample : ic5340-7 Inst : MSVOA6
Misc : MS34179,vj5340,,,,,
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 21 11:25:50 2016
Quant Method : C:\msdchem\1\methods\MSJ062116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Mon Jun 20 14:13:55 2016
Response via : Initial Calibration





TIC: J0977358.D\data.ms

(107) Ethanol

4.285min (+0.029) 1723.50ug/L

response 36795

Ion	Exp%	Act%
45.10	100	100
46.10	36.70	42.18
0.00	0.00	0.00
0.00	0.00	0.00

SGS ACCUTEST FA34891

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\062116\
Data File : J0977358.D
Acq On : 21 Jun 2016 10:55 am
Operator : darshnap
Sample : ic5340-7 Inst : MSVOA6
Misc : MS34179,vj5340,,,,,
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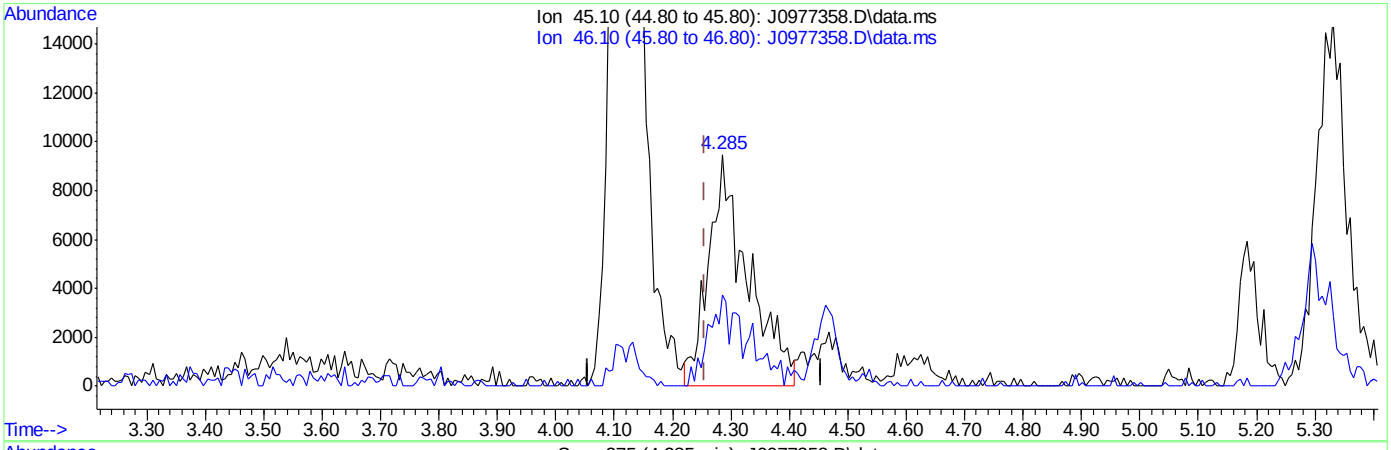
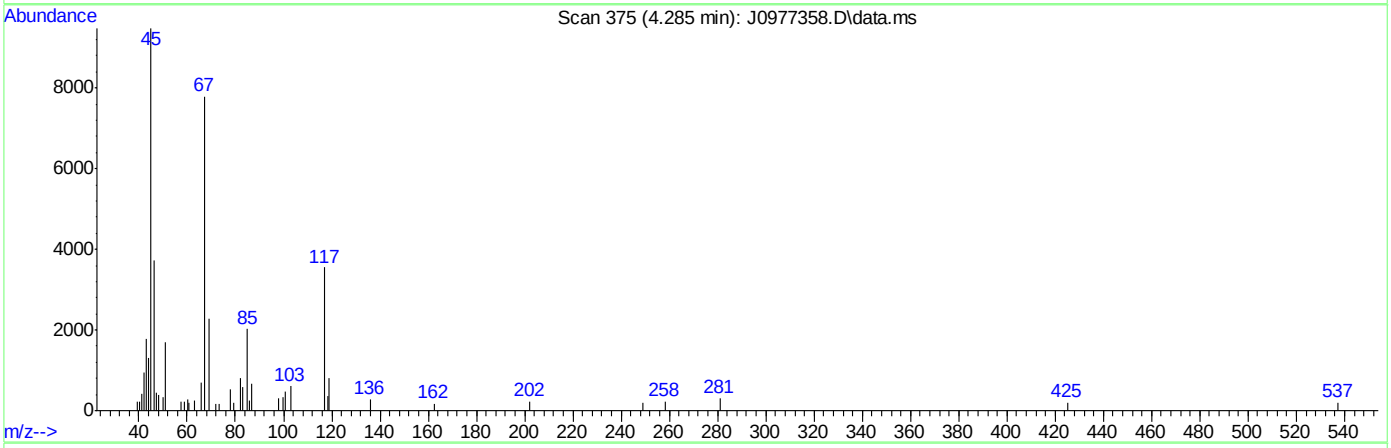
Quant Method : C:\msdchem\1\methods\MSJ062116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Mon Jun 20 14:13:55 2016
Response via : Initial Calibration





TIC: J0977358.D\data.ms

(107) Ethanol

4.285min (+0.029) 2066.42ug/L m

response 44116

Ion	Exp%	Act%
45.10	100	100
46.10	36.70	39.25
0.00	0.00	0.00
0.00	0.00	0.00

SGS ACCUTEST FA34891

Manual Integrations APPROVED (compounds with "m" flag)
Juan Garcia
06/22/16 11:19

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\062116\
Data File : J0977360.D
Acq On : 21 Jun 2016 11:51 am
Operator : darshnap
Sample : icv5340-5 Inst : MSVOA6
Misc : MS34179,vj5340,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 21 13:21:48 2016
Quant Method : C:\msdchem\1\methods\MSJ062116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 21 11:35:53 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.740	96	556517	50.00	ug/L	0.00
56) Chlorobenzene-d5	10.830	117	410904	50.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	13.192	152	219190	50.00	ug/L	0.00
106) Tert Butyl Alcohol-d10	5.284	65	43624	250.00	ug/L	-0.01
System Monitoring Compounds						
36) Dibromofluoromethane	6.911	113	148807	50.80	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 101.60%			
46) 1,2-Dichloroethane-d4	7.464	65	218079	51.02	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 102.04%			
57) Toluene-d8	9.285	98	551611	50.79	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 101.58%			
79) 4-Bromofluorobenzene	12.041	95	207440	49.26	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 98.52%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.669	85	143686	37.00	ug/L	98
3) Chloromethane	2.887	50	150019	37.78	ug/L	95
4) Vinyl Chloride	3.028	62	145807	37.17	ug/L	92
6) Bromomethane	3.445	94	111512	33.81	ug/L	96
7) Chloroethane	3.598	64	95291	37.27	ug/L	90
8) Trichlorofluoromethane	3.809	101	258987	39.01	ug/L	96
9) Ethyl Ether	4.115	59	98542	37.24	ug/L	84
10) 1,2-Dichlorotrifluoroe...	4.338	67	159607	47.00	ug/L	93
11) 1,1-Dichloroethene	4.379	61	196790	39.76	ug/L	98
12) Freon 113	4.438	101	120872	40.31	ug/L	91
13) Carbon Disulfide	4.455	76	402341	43.19	ug/L	99
14) Iodomethane	4.567	142	175736	36.67	ug/L	99
15) Allyl chloride	4.908	41	158504	37.03	ug/L	98
16) Methylene Chloride	5.031	49	179243	40.11	ug/L	98
17) Acetone	5.055	58	40133	216.80	ug/L	93
18) Methyl acetate	5.178	74	70095	207.32	ug/L	91
19) trans-1,2-Dichloroethene	5.213	61	188692	45.39	ug/L	97
20) Hexane	5.284	56	118747	42.70	ug/L	91
21) Methyl Tert Butyl Ether	5.325	73	328843	36.57	ug/L	93
22) Acetonitrile	5.572	40	49748	359.58	ug/L #	82
23) Di-isopropyl ether	5.707	45	415013	38.48	ug/L	94
24) Chloroprene	5.860	53	201131	34.93	ug/L	92
25) 1,1-Dichloroethane	5.883	63	239497	42.78	ug/L	100
26) Acrylonitrile	5.913	53	165547	205.54	ug/L	97
27) ETBE	6.101	59	417539	37.01	ug/L	95
28) Vinyl acetate	6.089	43	1029239	173.43	ug/L	99
29) cis-1,2-Dichloroethene	6.459	96	136287	39.86	ug/L	82
30) 2,2-Dichloropropane	6.594	77	203842	43.07	ug/L	97
31) Bromochloromethane	6.670	128	58581	39.11	ug/L	93
32) Cyclohexane	6.712	56	217861	41.45	ug/L	96
33) Chloroform	6.723	83	243333	38.71	ug/L	94
34) Ethyl acetate	6.788	43	423633	196.27	ug/L	99
35) Tetrahydrofuran	6.905	42	22369	36.02	ug/L	87

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\062116\
Data File : J0977360.D
Acq On : 21 Jun 2016 11:51 am
Operator : darshnap
Sample : icv5340-5 Inst : MSVOA6
Misc : MS34179,vj5340,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 21 13:21:48 2016
Quant Method : C:\msdchem\1\methods\MSJ062116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 21 11:35:53 2016
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
37)	Carbon Tetrachloride	6.917	117	190602	41.71	ug/L		95
38)	1,1,1-Trichloroethane	6.976	97	221511	39.44	ug/L		93
39)	2-Butanone	7.005	43	179156	210.57	ug/L		96
40)	1,1-Dichloropropene	7.088	75	161994	39.60	ug/L		90
41)	tert-Butyl Formate	7.176	59	873507	445.91	ug/L		98
42)	Propionitrile	7.317	54	121505	403.59	ug/L		92
43)	Methacrylonitrile	7.346	41	547675	400.05	ug/L		97
44)	Benzene	7.340	78	458526	40.43	ug/L		96
45)	TAME	7.417	73	323194	35.76	ug/L		88
47)	1,2-Dichloroethane	7.534	62	192600	37.58	ug/L		94
48)	Trichloroethene	7.916	95	123321	39.89	ug/L		88
49)	Methylcyclohexane	7.940	83	214020	39.70	ug/L		95
50)	Dibromomethane	8.345	93	72128	41.37	ug/L		92
51)	1,2-Dichloropropane	8.433	63	122444	40.63	ug/L		97
52)	Bromodichloromethane	8.480	83	172554	37.25	ug/L		91
53)	Methyl methacrylate	8.580	41	89069	41.88	ug/L		91
54)	2-Chloroethyl vinyl ether	8.991	63	342672	212.51	ug/L		93
55)	cis-1,3-Dichloropropene	9.097	75	191060	38.23	ug/L		94
58)	Toluene	9.338	91	488693	38.55	ug/L		100
59)	2-Nitropropane	9.538	41	129765	177.84	ug/L		94
60)	4-Methyl-2-pentanone	9.655	43	420032	206.27	ug/L		97
61)	trans-1,3-Dichloropropene	9.720	75	185425	42.69	ug/L		94
62)	Tetrachloroethene	9.743	166	119389	37.86	ug/L		96
63)	Ethyl methacrylate	9.826	69	111896	34.78	ug/L		96
64)	1,1,2-Trichloroethane	9.884	83	81591	39.08	ug/L		87
65)	Dibromochloromethane	10.084	129	109560	35.58	ug/L		96
66)	1,3-Dichloropropane	10.166	76	165592	37.18	ug/L		97
67)	1,2-Dibromoethane	10.349	107	100209	39.93	ug/L		88
68)	2-hexanone	10.478	43	295262	213.31	ug/L		98
69)	1-Chlorohexane	10.777	91	165119	40.31	ug/L		97
70)	Ethylbenzene	10.848	91	593142	38.69	ug/L		97
71)	Chlorobenzene	10.848	112	318726	39.45	ug/L		94
72)	1,1,1,2-Tetrachloroethane	10.901	131	123862	43.81	ug/L		95
73)	m,p-Xylene	10.983	91	926210	78.15	ug/L		96
74)	o-Xylene	11.424	91	474805	38.44	ug/L		96
75)	Styrene	11.471	104	351969	38.03	ug/L		97
76)	Bromoform	11.535	173	66520	37.15	ug/L		95
77)	Isopropylbenzene	11.729	105	587709	40.83	ug/L		98
80)	cis-1,4-Dichloro-2-butene	12.070	53	36952	34.32	ug/L		94
81)	n-Propylbenzene	12.147	91	712899	40.79	ug/L		98
82)	Bromobenzene	12.170	156	132683	38.48	ug/L		99
83)	1,1,2,2-Tetrachloroethane	12.205	83	118589	39.69	ug/L		96
84)	1,3,5-Trimethylbenzene	12.329	105	502740	38.71	ug/L		97
85)	2-Chlorotoluene	12.340	91	472193	38.56	ug/L		96
86)	trans-1,4-Dichloro-2-B...	12.387	53	37883	37.21	ug/L	#	67
87)	1,2,3-Trichloropropane	12.364	110	34766	39.54	ug/L		91
88)	Cyclohexanone	12.440	55	19033	256.08	ug/L		94
89)	4-Chlorotoluene	12.505	91	443551	38.78	ug/L		97
90)	a-Methyl Styrene	12.675	118	3708	0.60	ug/L	#	1
91)	tert-Butylbenzene	12.669	91	295375	39.07	ug/L		98

SGS ACCUTEST FA34891

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\062116\
Data File : J0977360.D
Acq On : 21 Jun 2016 11:51 am
Operator : darshnap
Sample : icv5340-5 Inst : MSVOA6
Misc : MS34179,vj5340,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 21 13:21:48 2016
Quant Method : C:\msdchem\1\methods\MSJ062116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 21 11:35:53 2016
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
92)	1,2,4-Trimethylbenzene	12.740	105	504028	38.41	ug/L		99
93)	Pentachloroethane	12.722	167	86500	43.72	ug/L		91
94)	sec-Butylbenzene	12.857	105	641099	41.26	ug/L		98
95)	4-Isopropyltoluene	12.987	119	529236	40.22	ug/L		99
96)	1,3-Dichlorobenzene	13.122	146	251102	40.27	ug/L		94
97)	1,4-Dichlorobenzene	13.204	146	249158	39.32	ug/L		96
98)	n-Butylbenzene	13.416	92	308600	41.05	ug/L		86
99)	Benzyl Chloride	13.433	126	42567	38.93	ug/L	#	62
100)	1,2-Dichlorobenzene	13.633	146	230134	38.98	ug/L		97
101)	1,2-Dibromo-3-Chloropr...	14.367	75	19651	37.84	ug/L		90
102)	Hexachlorobutadiene	14.914	225	102465	40.20	ug/L		88
103)	1,2,4-Trichlorobenzene	14.961	180	173806	36.78	ug/L		95
104)	Naphthalene	15.243	128	303371	42.73	ug/L		97
105)	1,2,3-Trichlorobenzene	15.413	180	142487	39.84	ug/L		97
107)	Ethanol	4.273	45	18467m	811.02	ug/L		
108)	acrolein	4.743	56	84869	182.26	ug/L		84
109)	Tert Butyl Alcohol	5.366	59	87746	352.32	ug/L		95
110)	tert Amyl alcohol	7.564	59	64537	331.61	ug/L		92
111)	Isobutyl alcohol	7.440	42	55718	740.91	ug/L	#	75
112)	1,4-Dioxane	8.656	88	16096	724.64	ug/L	#	47
113)	3,3-Dimethyl-1-butanol	10.419	57	370079	2052.83	ug/L		98

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

7.6.8

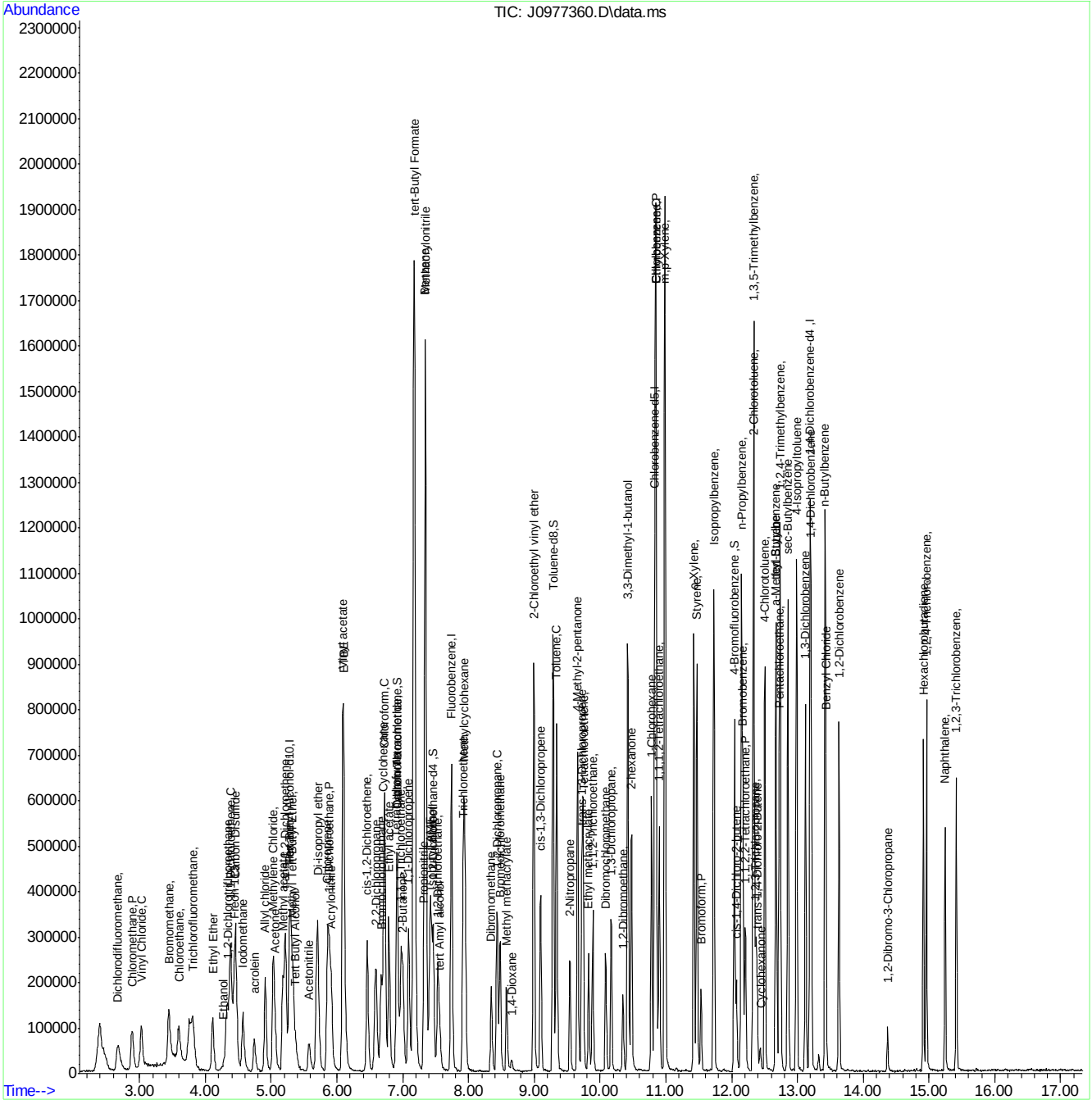
7

SGS ACCUTEST FA34891

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\062116\
Data File : J0977360.D
Acq On : 21 Jun 2016 11:51 am
Operator : darshnap
Sample : icv5340-5 Inst : MSVOA6
Misc : MS34179,vj5340,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 21 13:21:48 2016
Quant Method : C:\msdchem\1\methods\MSJ062116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 21 11:35:53 2016
Response via : Initial Calibration



MSJ062116a.M Wed Jun 22 07:51:05 2016 Page: 4

SGS ACCUTEST FA34891

Manual Integration Approval Summary

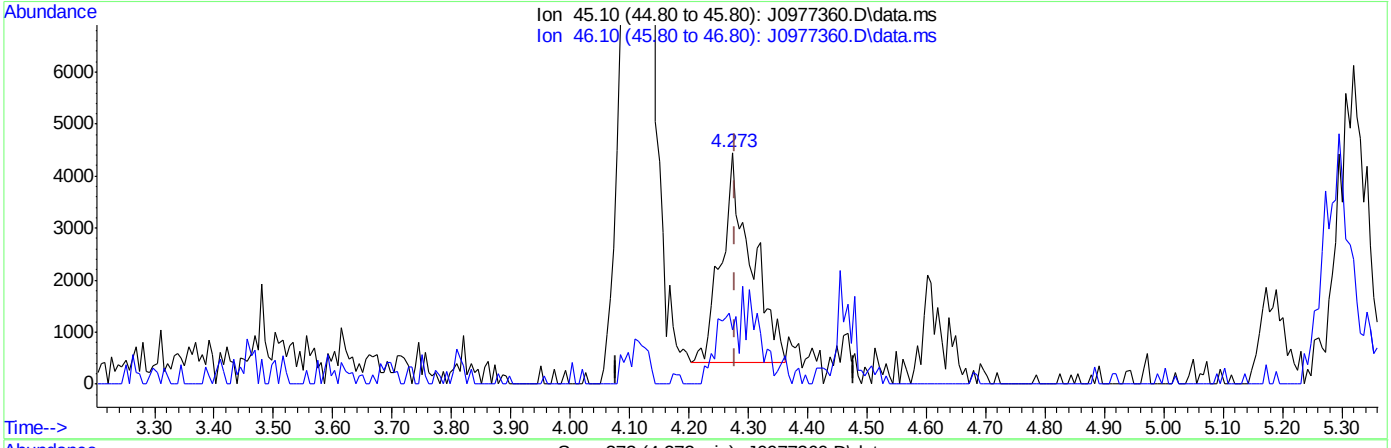
Sample Number:	VJ5340-ICV5340	**Method:**	SW846 8260B
Lab FileID:	J0977360.D	**Analyst approved:**	06/22/16 10:10 Darshna Patel
Injection Time:	06/21/16 11:51	**Supervisor approved:**	06/22/16 11:19 Juan Garcia

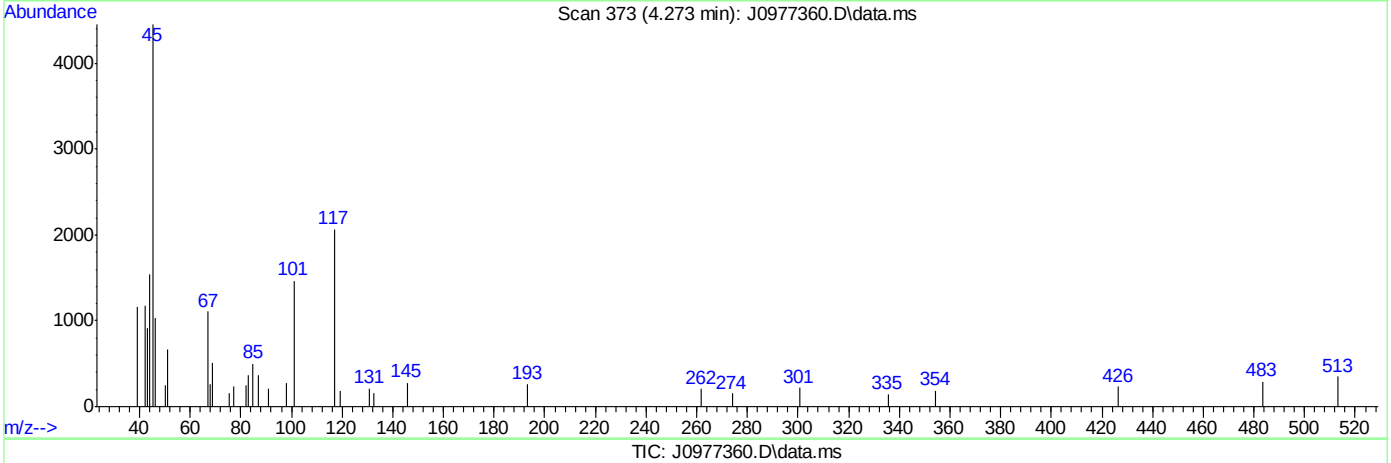
Parameter	CAS	Sig#	R.T. (min.)	Reason
Ethyl Alcohol	64-17-5		4.27	Poor instrument integration

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\062116\
Data File : J0977360.D
Acq On : 21 Jun 2016 11:51 am
Operator : darshnap
Sample : icv5340-5 Inst : MSVOA6
Misc : MS34179,vj5340,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 21 12:25:57 2016
Quant Method : C:\msdchem\1\methods\MSJ062116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 21 11:35:53 2016
Response via : Initial Calibration





TIC: J0977360.D\data.ms

(107) Ethanol

4.273min (-0.006) 626.87ug/L

response 14274

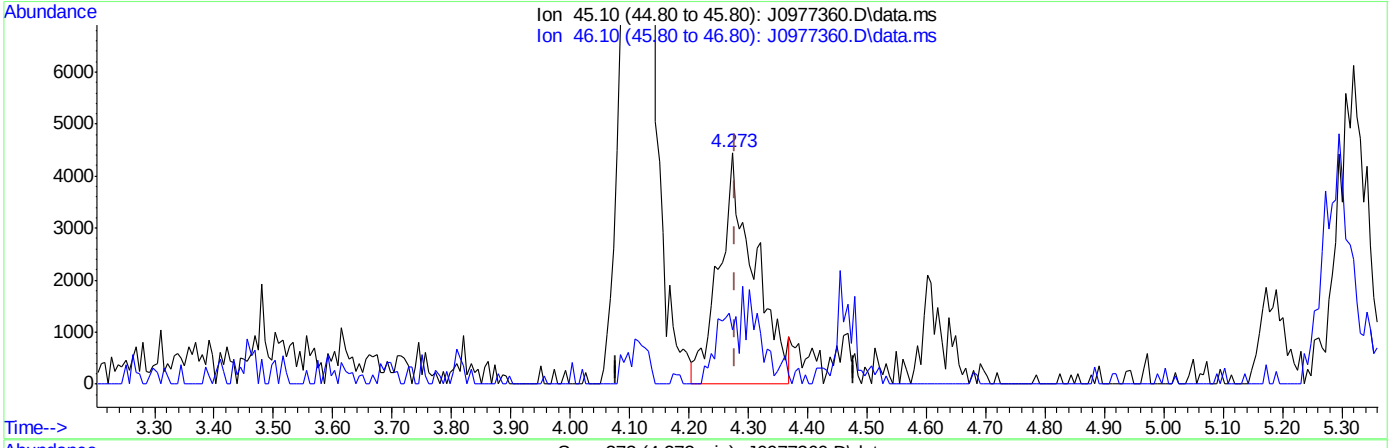
Ion	Exp%	Act%
45.10	100	100
46.10	23.90	25.53
0.00	0.00	0.00
0.00	0.00	0.00

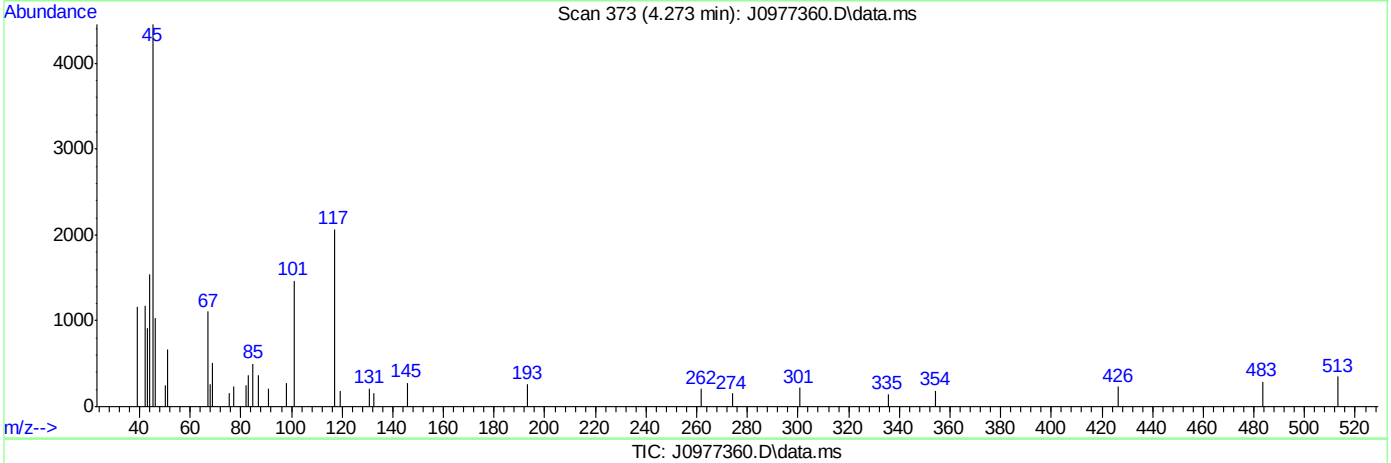
SGS ACCUTEST FA34891

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\062116\
Data File : J0977360.D
Acq On : 21 Jun 2016 11:51 am
Operator : darshnap
Sample : icv5340-5 Inst : MSVOA6
Misc : MS34179,vj5340,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 21 12:25:57 2016
Quant Method : C:\msdchem\1\methods\MSJ062116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 21 11:35:53 2016
Response via : Initial Calibration





TIC: J0977360.D\data.ms

(107) Ethanol

4.273min (-0.006) 811.02ug/L m

response 18467

Ion	Exp%	Act%
45.10	100	100
46.10	23.90	23.19
0.00	0.00	0.00
0.00	0.00	0.00

SGS ACCUTEST FA34891

Manual Integrations APPROVED (compounds with "m" flag)
Juan Garcia
07/01/16 11:59

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\063016\
Data File : J0977716.D
Acq On : 30 Jun 2016 9:13 am
Operator : darshnap
Sample : cc5340-5 Inst : MSVOA6
Misc : MS34260,vj5357,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 01 08:05:41 2016
Quant Method : C:\msdchem\1\methods\MSJ062116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 21 11:35:53 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.740	96	550646	50.00	ug/L	0.00
56) Chlorobenzene-d5	10.830	117	381439	50.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	13.192	152	187315	50.00	ug/L	0.00
106) Tert Butyl Alcohol-d10	5.284	65	40877	250.00	ug/L	-0.01
System Monitoring Compounds						
36) Dibromofluoromethane	6.911	113	134005	46.24	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 92.48%			
46) 1,2-Dichloroethane-d4	7.463	65	179219	42.38	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 84.76%			
57) Toluene-d8	9.285	98	512379	50.82	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 101.64%			
79) 4-Bromofluorobenzene	12.041	95	181490	50.43	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 100.86%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.675	85	93793	23.92	ug/L	98
3) Chloromethane	2.892	50	141934	36.06	ug/L	95
4) Vinyl Chloride	3.033	62	142919	36.80	ug/L	97
5) 1,3-Butadiene	3.027	54	118908	41.52	ug/L #	84
6) Bromomethane	3.445	94	131021	40.76	ug/L	96
7) Chloroethane	3.603	64	94833	37.52	ug/L	88
8) Trichlorofluoromethane	3.768	101	221832	33.54	ug/L	97
9) Ethyl Ether	4.108	59	115105	43.96	ug/L	83
10) 1,2-Dichlorotrifluoroe...	4.349	67	142482	42.40	ug/L	84
11) 1,1-Dichloroethene	4.379	61	168060	34.02	ug/L	96
12) Freon 113	4.443	101	113375	38.10	ug/L	90
13) Carbon Disulfide	4.461	76	382868	41.54	ug/L	96
14) Iodomethane	4.573	142	183269	38.64	ug/L	97
15) Allyl chloride	4.908	41	150094	35.44	ug/L	89
16) Methylene Chloride	5.031	49	178576	40.39	ug/L	85
17) Acetone	5.054	58	44086	240.69	ug/L #	50
18) Methyl acetate	5.178	74	75528	225.77	ug/L #	67
19) trans-1,2-Dichloroethene	5.219	61	161473	39.26	ug/L	85
20) Hexane	5.284	56	108217	39.33	ug/L #	88
21) Methyl Tert Butyl Ether	5.325	73	325841	36.63	ug/L	92
22) Acetonitrile	5.577	40	58832	430.82	ug/L #	67
23) Di-isopropyl ether	5.707	45	424303	39.76	ug/L	93
24) Chloroprene	5.854	53	184426	32.27	ug/L	93
25) 1,1-Dichloroethane	5.883	63	231771	41.84	ug/L	92
26) Acrylonitrile	5.906	53	182495	229.47	ug/L	96
27) ETBE	6.106	59	439676	39.38	ug/L	94
28) Vinyl acetate	6.089	43	1212160	206.43	ug/L	97
29) cis-1,2-Dichloroethene	6.459	96	146907	43.43	ug/L	86
30) 2,2-Dichloropropane	6.594	77	167800	35.83	ug/L	90
31) Bromochloromethane	6.676	128	59387	40.08	ug/L	97
32) Cyclohexane	6.723	56	215887	41.52	ug/L	97
33) Chloroform	6.723	83	237741	38.21	ug/L	92
34) Ethyl acetate	6.788	43	401878	188.17	ug/L	98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\063016\
Data File : J0977716.D
Acq On : 30 Jun 2016 9:13 am
Operator : darshnap
Sample : cc5340-5 Inst : MSVOA6
Misc : MS34260,vj5357,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 01 08:05:41 2016
Quant Method : C:\msdchem\1\methods\MSJ062116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 21 11:35:53 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
35) Tetrahydrofuran	6.905	42	22559	36.71 ug/L	88
37) Carbon Tetrachloride	6.917	117	147764m	32.68 ug/L	
38) 1,1,1-Trichloroethane	6.982	97	181047	32.58 ug/L	95
39) 2-Butanone	7.005	43	167174	198.59 ug/L	85
40) 1,1-Dichloropropene	7.087	75	143512	35.46 ug/L	87
41) tert-Butyl Formate	7.176	59	648875	337.52 ug/L	88
42) Propionitrile	7.317	54	121738	408.67 ug/L	85
43) Methacrylonitrile	7.340	41	498118	367.73 ug/L	95
44) Benzene	7.340	78	473704	42.24 ug/L	88
45) TAME	7.416	73	322976	36.11 ug/L	84
47) 1,2-Dichloroethane	7.528	62	168822	33.17 ug/L	91
48) Trichloroethene	7.916	95	111684	36.51 ug/L	92
49) Methylcyclohexane	7.939	83	199288	37.37 ug/L	89
50) Dibromomethane	8.345	93	69148	40.12 ug/L	88
51) 1,2-Dichloropropane	8.439	63	126594	42.45 ug/L	82
52) Bromodichloromethane	8.480	83	150374	32.81 ug/L	98
53) Methyl methacrylate	8.574	41	68215	32.39 ug/L	81
54) 2-Chloroethyl vinyl ether	8.991	63	322772	202.31 ug/L	89
55) cis-1,3-Dichloropropene	9.091	75	177076	35.81 ug/L	88
58) Toluene	9.338	91	468428	39.86 ug/L	96
59) 2-Nitropropane	9.538	41	97627	144.13 ug/L	96
60) 4-Methyl-2-pentanone	9.655	43	397299	210.18 ug/L	94
61) trans-1,3-Dichloropropene	9.720	75	142970	35.46 ug/L	92
62) Tetrachloroethene	9.737	166	98685	33.71 ug/L	96
63) Ethyl methacrylate	9.825	69	120286	40.27 ug/L	87
64) 1,1,2-Trichloroethane	9.890	83	82403	42.67 ug/L	83
65) Dibromochloromethane	10.084	129	102029	35.69 ug/L	93
66) 1,3-Dichloropropane	10.166	76	168007	40.70 ug/L	90
67) 1,2-Dibromoethane	10.342	107	89357	38.33 ug/L	99
68) 2-hexanone	10.472	43	276803	215.42 ug/L	90
69) 1-Chlorohexane	10.783	91	138486	36.42 ug/L	93
70) Ethylbenzene	10.848	91	547460	38.47 ug/L	96
71) Chlorobenzene	10.848	112	311469	41.62 ug/L	96
72) 1,1,1,2-Tetrachloroethane	10.895	131	99266	37.83 ug/L	94
73) m,p-Xylene	10.983	91	825345	75.02 ug/L	93
74) o-Xylene	11.424	91	426142	37.12 ug/L	99
75) Styrene	11.471	104	329034	38.30 ug/L	96
76) Bromoform	11.535	173	53941	32.46 ug/L	96
77) Isopropylbenzene	11.729	105	496408	37.15 ug/L	98
80) cis-1,4-Dichloro-2-butene	12.070	53	35748	38.60 ug/L	90
81) n-Propylbenzene	12.146	91	618444	41.40 ug/L	97
82) Bromobenzene	12.170	156	117565	39.93 ug/L	98
83) 1,1,2,2-Tetrachloroethane	12.205	83	122561	47.92 ug/L	93
84) 1,3,5-Trimethylbenzene	12.328	105	449140	40.47 ug/L	93
85) 2-Chlorotoluene	12.334	91	430713	41.16 ug/L	96
86) trans-1,4-Dichloro-2-B...	12.381	53	32102	36.88 ug/L #	90
87) 1,2,3-Trichloropropane	12.364	110	30314	40.34 ug/L	88
88) Cyclohexanone	12.434	55	14785	233.20 ug/L	87
89) 4-Chlorotoluene	12.505	91	397948	40.86 ug/L	92
90) a-Methyl Styrene	12.593	118	242063	45.63 ug/L	97

SGS ACCUTEST FA34891

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\063016\
Data File : J0977716.D
Acq On : 30 Jun 2016 9:13 am
Operator : darshnap
Sample : cc5340-5 Inst : MSVOA6
Misc : MS34260,vj5357,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 01 08:05:41 2016
Quant Method : C:\msdchem\1\methods\MSJ062116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 21 11:35:53 2016
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
91)	tert-Butylbenzene	12.669	91	248597	38.48	ug/L		91
92)	1,2,4-Trimethylbenzene	12.740	105	468822	41.81	ug/L		95
93)	Pentachloroethane	12.722	167	74755	44.22	ug/L		83
94)	sec-Butylbenzene	12.857	105	544675	41.02	ug/L		98
95)	4-Isopropyltoluene	12.986	119	455195	40.48	ug/L		97
96)	1,3-Dichlorobenzene	13.122	146	228938	43.08	ug/L		95
97)	1,4-Dichlorobenzene	13.204	146	240274	44.64	ug/L		96
98)	n-Butylbenzene	13.421	92	276752	43.08	ug/L		97
99)	Benzyl Chloride	13.433	126	40198	43.02	ug/L		96
100)	1,2-Dichlorobenzene	13.633	146	223827	44.33	ug/L		96
101)	1,2-Dibromo-3-Chloropr...	14.367	75	16405	36.97	ug/L		90
102)	Hexachlorobutadiene	14.914	225	67534	31.01	ug/L		95
103)	1,2,4-Trichlorobenzene	14.961	180	141227	34.97	ug/L		99
104)	Naphthalene	15.243	128	262455	43.19	ug/L		100
105)	1,2,3-Trichlorobenzene	15.413	180	112746	37.07	ug/L		86
107)	Ethanol	4.302	45	20814m	975.52	ug/L		
108)	acrolein	4.743	56	95885	220.92	ug/L		96
109)	Tert Butyl Alcohol	5.366	59	84343	361.47	ug/L		91
110)	tert Amyl alcohol	7.563	59	59639	327.04	ug/L	#	80
111)	Isobutyl alcohol	7.434	42	51490	730.57	ug/L		95
112)	1,4-Dioxane	8.656	88	17320	834.00	ug/L		93
113)	3,3-Dimethyl-1-butanol	10.419	57	376568	2216.93	ug/L		88

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

7.6.9

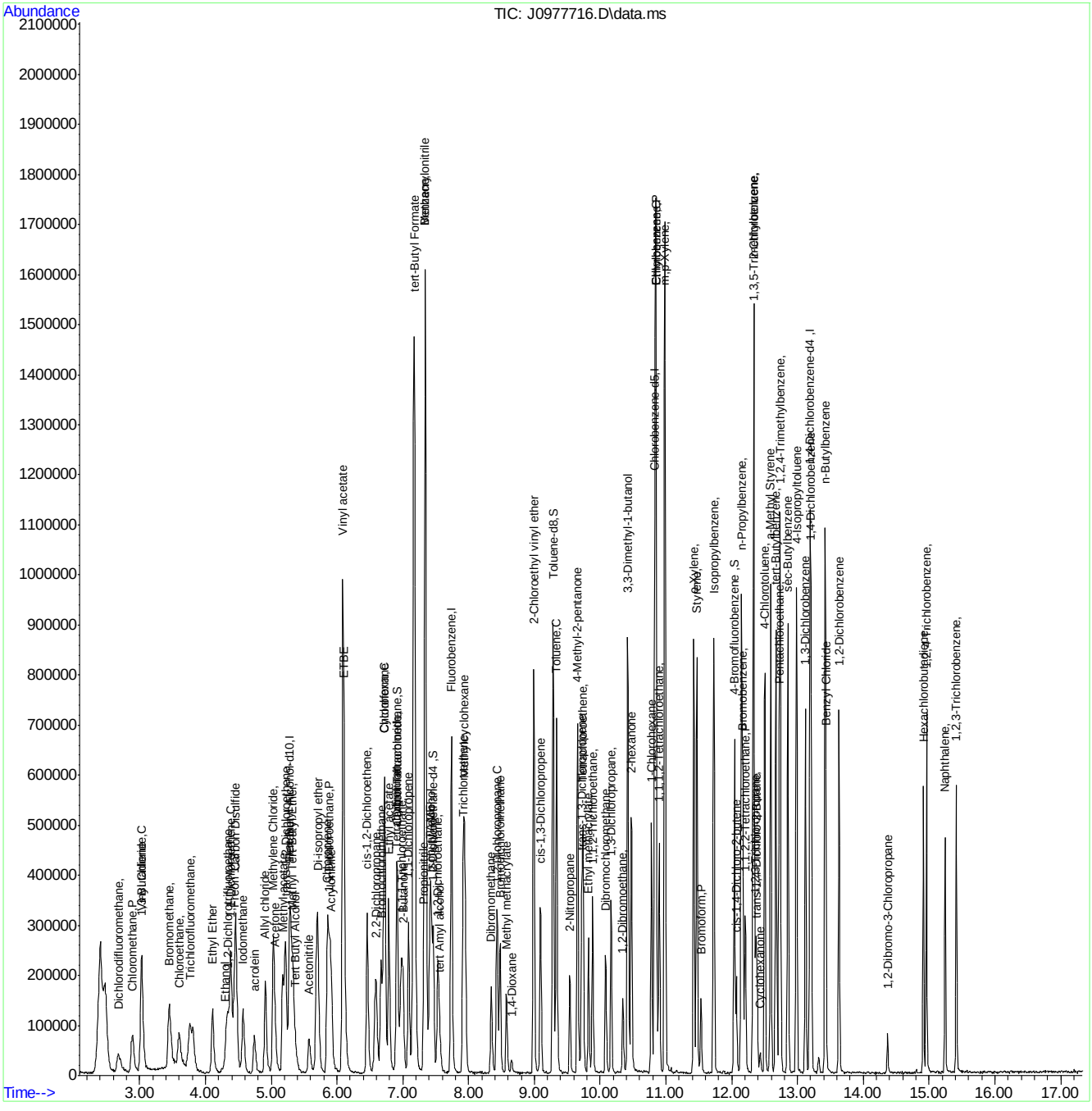
7

SGS ACCUTEST FA34891

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\063016\
Data File : J0977716.D
Acq On : 30 Jun 2016 9:13 am
Operator : darshnap
Sample : cc5340-5 Inst : MSVOA6
Misc : MS34260,vj5357,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 01 08:05:41 2016
Quant Method : C:\msdchem\1\methods\MSJ062116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 21 11:35:53 2016
Response via : Initial Calibration



MSJ062116a.M Fri Jul 01 08:05:53 2016 Page: 4

SGS ACCUTEST FA34891

Manual Integration Approval Summary

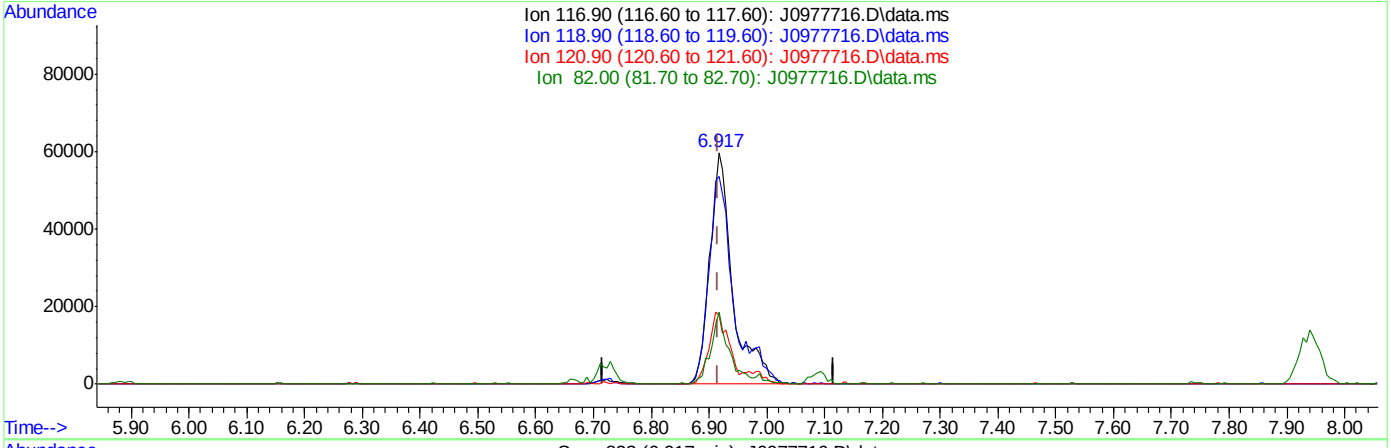
Sample Number:	VJ5357-CC5340	**Method:**	SW846 8260B
Lab FileID:	J0977716.D	**Analyst approved:**	07/01/16 09:26 Darshna Patel
Injection Time:	06/30/16 09:13	**Supervisor approved:**	07/01/16 11:59 Juan Garcia

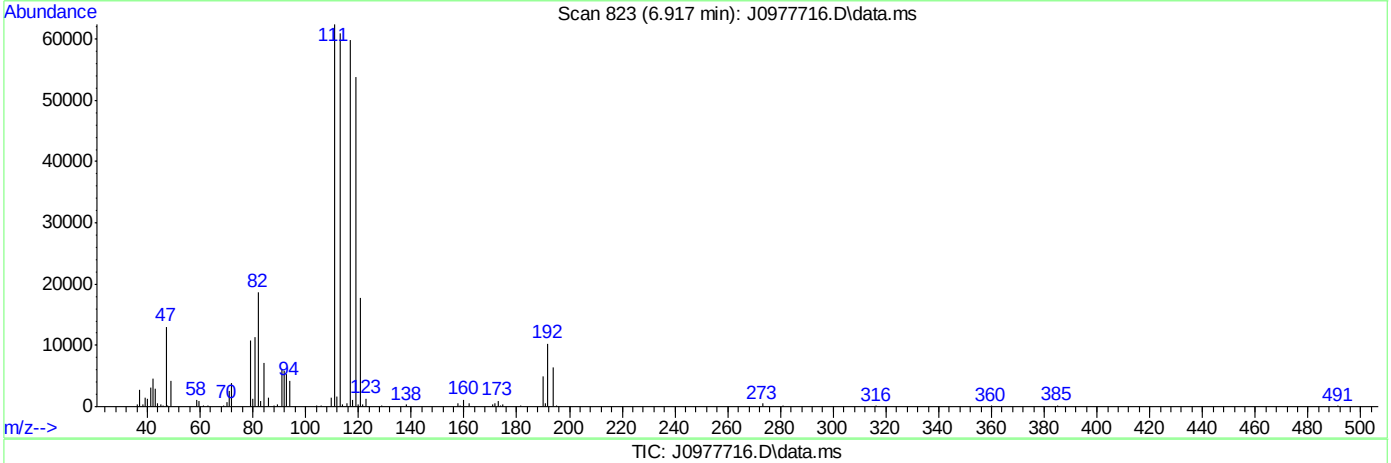
Parameter	CAS	Sig#	R.T. (min.)	Reason
Ethyl Alcohol	64-17-5		4.30	Poor instrument integration
Carbon Tetrachloride	56-23-5		6.92	Overlapping peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\063016\
Data File : J0977716.D
Acq On : 30 Jun 2016 9:13 am
Operator : darshnap
Sample : cc5340-5 Inst : MSVOA6
Misc : MS34260,vj5357,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 30 09:33:43 2016
Quant Method : C:\msdchem\1\methods\MSJ062116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 21 11:35:53 2016
Response via : Initial Calibration





TIC: J0977716.D\data.ms

(37) Carbon Tetrachloride ( )

6.917min (+0.000) 36.83ug/L

response 166521

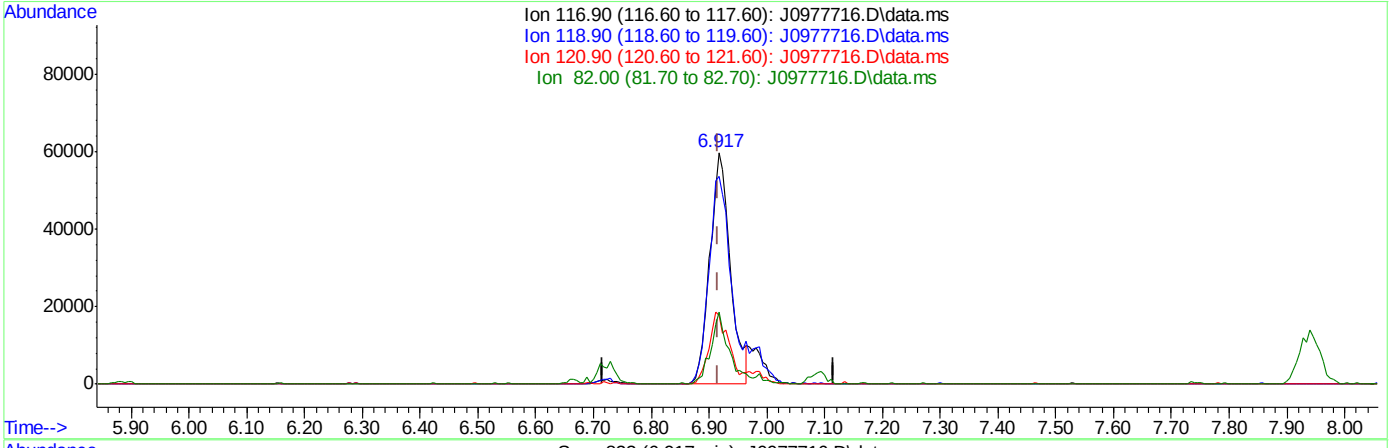
Ion	Exp%	Act%
116.90	100	100
118.90	91.80	89.89
120.90	27.00	29.73
82.00	24.80	31.24

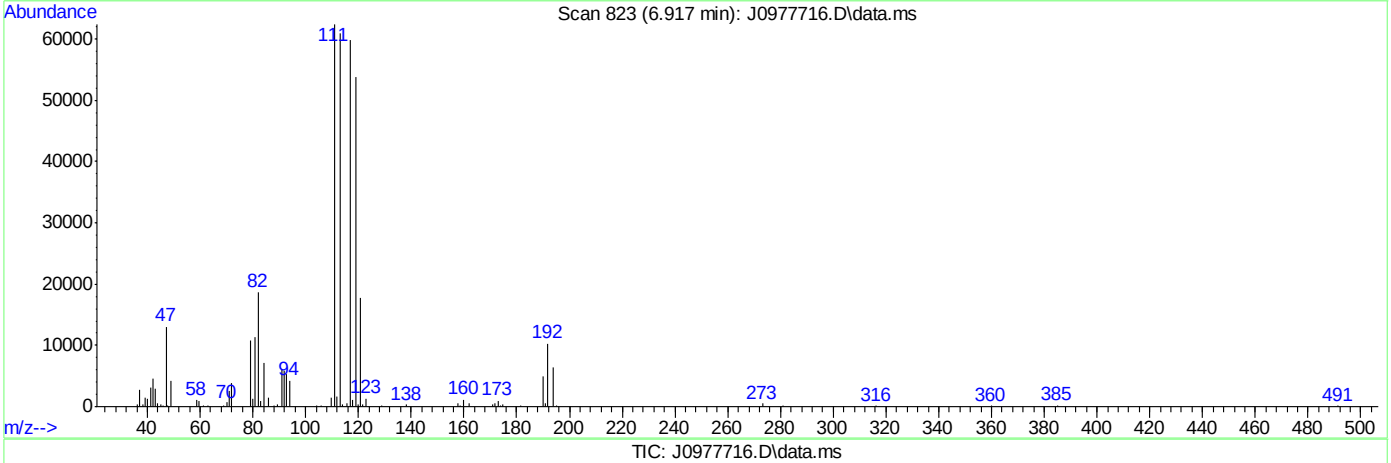
SGS ACCUTEST FA34891

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\063016\
Data File : J0977716.D
Acq On : 30 Jun 2016 9:13 am
Operator : darshnap
Sample : cc5340-5 Inst : MSVOA6
Misc : MS34260,vj5357,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 30 09:33:43 2016
Quant Method : C:\msdchem\1\methods\MSJ062116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 21 11:35:53 2016
Response via : Initial Calibration





TIC: J0977716.D\data.ms

(37) Carbon Tetrachloride ( )

6.917min (+0.000) 32.68ug/L m

response 147764

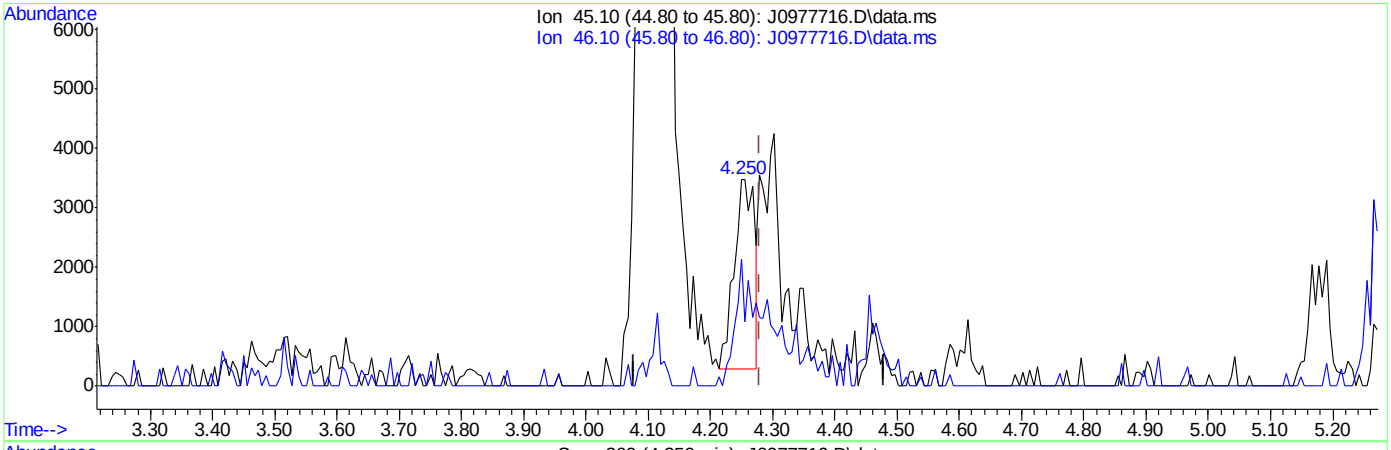
Ion	Exp%	Act%
116.90	100	100
118.90	91.80	89.89
120.90	27.00	29.73
82.00	24.80	31.24

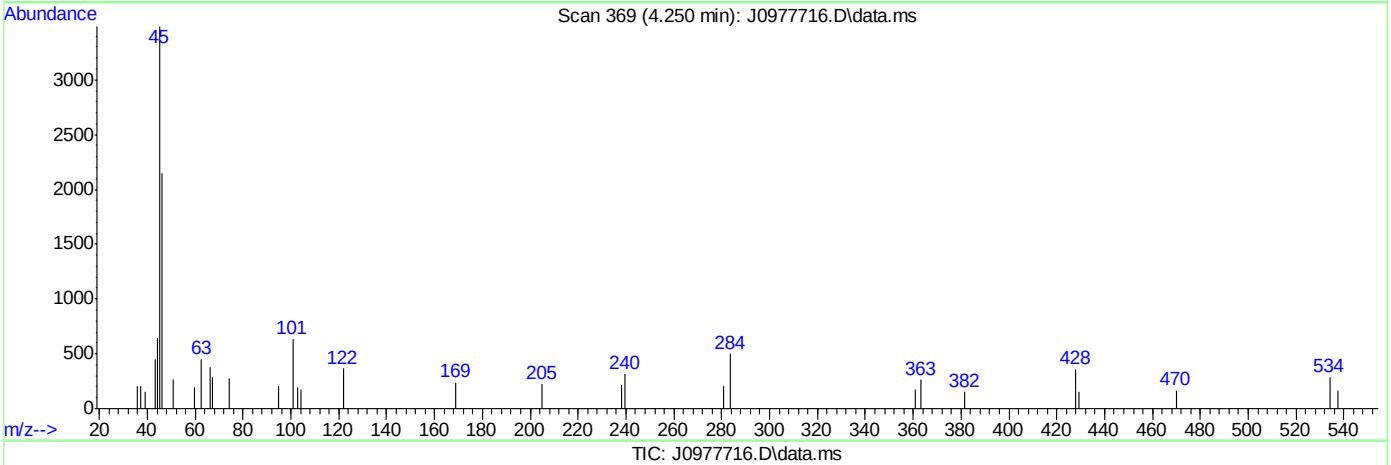
SGS ACCUTEST FA34891

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\063016\
Data File : J0977716.D
Acq On : 30 Jun 2016 9:13 am
Operator : darshnap
Sample : cc5340-5 Inst : MSVOA6
Misc : MS34260,vj5357,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 30 09:33:43 2016
Quant Method : C:\msdchem\1\methods\MSJ062116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 21 11:35:53 2016
Response via : Initial Calibration





TIC: J0977716.D\data.ms

(107) Ethanol

4.250min (-0.029) 335.25ug/L

response 7153

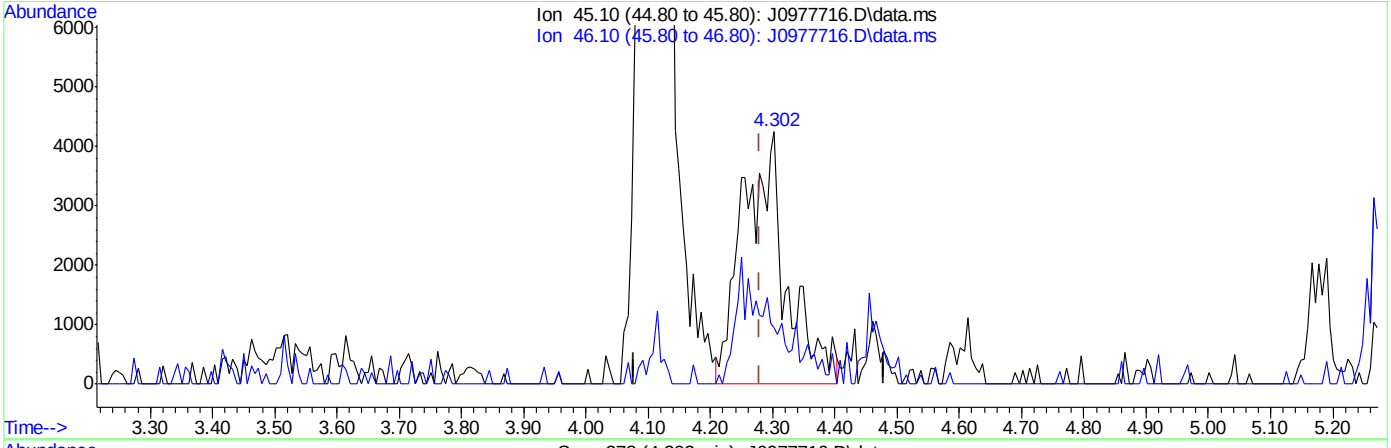
Ion	Exp%	Act%
45.10	100	100
46.10	23.90	62.48#
0.00	0.00	0.00
0.00	0.00	0.00

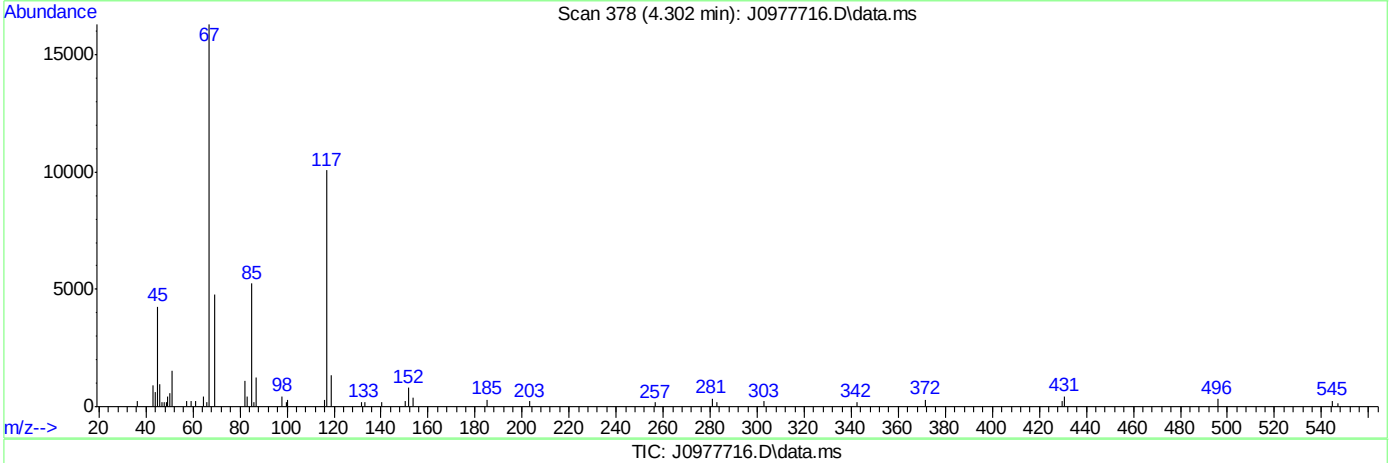
SGS ACCUTEST FA34891

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\063016\
Data File : J0977716.D
Acq On : 30 Jun 2016 9:13 am
Operator : darshnap
Sample : cc5340-5 Inst : MSVOA6
Misc : MS34260,vj5357,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 30 09:33:43 2016
Quant Method : C:\msdchem\1\methods\MSJ062116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 21 11:35:53 2016
Response via : Initial Calibration





(107) Ethanol

4.302min (+0.024) 975.52ug/L m

response 20814

Ion	Exp%	Act%
45.10	100	100
46.10	23.90	22.51
0.00	0.00	0.00
0.00	0.00	0.00

SGS ACCUTEST FA34891

Manual Integrations APPROVED (compounds with "m" flag)
Juan Garcia
07/01/16 11:59

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\063016\
Data File : J0977743.D
Acq On : 30 Jun 2016 8:05 pm
Operator : darshnap
Sample : ecc5340-5 Inst : MSVOA6
Misc : MS34274,vj5357,,,,,
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Jul 01 08:04:01 2016
Quant Method : C:\msdchem\1\methods\MSJ062116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 21 11:35:53 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.740	96	562970	50.00	ug/L	0.00
56) Chlorobenzene-d5	10.830	117	370797	50.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	13.186	152	181672	50.00	ug/L	0.00
106) Tert Butyl Alcohol-d10	5.272	65	34361	250.00	ug/L	-0.02
System Monitoring Compounds						
36) Dibromofluoromethane	6.911	113	135824	45.84	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 91.68%			
46) 1,2-Dichloroethane-d4	7.464	65	182318	42.16	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 84.32%			
57) Toluene-d8	9.285	98	567179	57.87	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 115.74%#			
79) 4-Bromofluorobenzene	12.041	95	189521	54.30	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 108.60%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.675	85	93961	23.42	ug/L	95
3) Chloromethane	2.892	50	121921	30.08	ug/L	94
4) Vinyl Chloride	3.033	62	133867	33.54	ug/L	95
5) 1,3-Butadiene	3.028	54	122937	42.03	ug/L #	80
6) Bromomethane	3.451	94	120664	36.36	ug/L	93
7) Chloroethane	3.603	64	95360	36.80	ug/L	97
8) Trichlorofluoromethane	3.762	101	236354	35.01	ug/L	95
9) Ethyl Ether	4.103	59	90914	33.96	ug/L	97
10) 1,2-Dichlorotrifluoroe...	4.332	67	123601	35.98	ug/L	92
11) 1,1-Dichloroethene	4.385	61	160294	31.63	ug/L	92
12) Freon 113	4.438	101	102761	33.58	ug/L	92
13) Carbon Disulfide	4.461	76	335639	35.61	ug/L	97
14) Iodomethane	4.573	142	154646	31.90	ug/L	98
15) Allyl chloride	4.914	41	149720	34.57	ug/L	90
16) Methylene Chloride	5.037	49	165050	36.51	ug/L	95
17) Acetone	5.049	58	36070	192.62	ug/L #	73
18) Methyl acetate	5.184	74	65595	191.78	ug/L #	89
19) trans-1,2-Dichloroethene	5.219	61	157966	37.57	ug/L	95
20) Hexane	5.284	56	116127	41.28	ug/L #	85
21) Methyl Tert Butyl Ether	5.313	73	277448	30.50	ug/L	89
22) Acetonitrile	5.578	40	53120	379.81	ug/L	91
23) Di-isopropyl ether	5.707	45	374709	34.34	ug/L	85
24) Chloroprene	5.854	53	207520	35.66	ug/L	93
25) 1,1-Dichloroethane	5.877	63	215510	38.05	ug/L	92
26) Acrylonitrile	5.912	53	143722	175.94	ug/L	86
27) ETBE	6.100	59	362282	31.74	ug/L	94
28) Vinyl acetate	6.095	43	920553	153.34	ug/L	96
29) cis-1,2-Dichloroethene	6.459	96	127007	36.72	ug/L	82
30) 2,2-Dichloropropane	6.588	77	147146	30.74	ug/L	93
31) Bromochloromethane	6.676	128	57126	37.71	ug/L	89
32) Cyclohexane	6.723	56	217991	41.00	ug/L	91
33) Chloroform	6.723	83	220976	34.64	ug/L	90
34) Ethyl acetate	6.788	43	356621	163.33	ug/L	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\063016\
Data File : J0977743.D
Acq On : 30 Jun 2016 8:05 pm
Operator : darshnap
Sample : ecc5340-5 Inst : MSVOA6
Misc : MS34274,vj5357,,,,,
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Jul 01 08:04:01 2016
Quant Method : C:\msdchem\1\methods\MSJ062116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 21 11:35:53 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
35) Tetrahydrofuran	6.900	42	20981	33.40 ug/L	95
37) Carbon Tetrachloride	6.917	117	160067	34.63 ug/L	88
38) 1,1,1-Trichloroethane	6.982	97	183350	32.27 ug/L	90
39) 2-Butanone	7.005	43	147514	171.40 ug/L	84
40) 1,1-Dichloropropene	7.088	75	168043	40.61 ug/L	82
41) tert-Butyl Formate	7.176	59	516201	264.11 ug/L #	78
42) Propionitrile	7.311	54	123350	405.02 ug/L	86
43) Methacrylonitrile	7.346	41	510718	368.78 ug/L	94
44) Benzene	7.340	78	457293	39.85 ug/L	93
45) TAME	7.417	73	326199	35.68 ug/L	89
47) 1,2-Dichloroethane	7.534	62	174123	33.47 ug/L	96
48) Trichloroethene	7.916	95	123625	39.53 ug/L	90
49) Methylcyclohexane	7.940	83	234725	43.05 ug/L	86
50) Dibromomethane	8.345	93	61540	35.05 ug/L	85
51) 1,2-Dichloropropane	8.433	63	114878	37.68 ug/L	89
52) Bromodichloromethane	8.480	83	146780	31.32 ug/L	89
53) Methyl methacrylate	8.574	41	72023	33.45 ug/L	88
54) 2-Chloroethyl vinyl ether	8.991	63	337858	207.13 ug/L	90
55) cis-1,3-Dichloropropene	9.097	75	185242	36.64 ug/L	88
58) Toluene	9.338	91	526414	46.41 ug/L	94
59) 2-Nitropropane	9.544	41	92653	140.72 ug/L	96
60) 4-Methyl-2-pentanone	9.655	43	387129	210.68 ug/L	97
61) trans-1,3-Dichloropropene	9.726	75	138478	35.33 ug/L	87
62) Tetrachloroethene	9.743	166	136567	47.99 ug/L	86
63) Ethyl methacrylate	9.826	69	115972	39.94 ug/L #	74
64) 1,1,2-Trichloroethane	9.884	83	75058	39.87 ug/L	92
65) Dibromochloromethane	10.084	129	97198	34.98 ug/L	95
66) 1,3-Dichloropropane	10.166	76	148213	36.87 ug/L	91
67) 1,2-Dibromoethane	10.349	107	94635	41.81 ug/L	94
68) 2-hexanone	10.472	43	252317	202.00 ug/L	79
69) 1-Chlorohexane	10.777	91	168313	45.54 ug/L	92
70) Ethylbenzene	10.848	91	566665	40.96 ug/L	99
71) Chlorobenzene	10.848	112	303729	41.76 ug/L	94
72) 1,1,1,2-Tetrachloroethane	10.895	131	104048	40.79 ug/L	96
73) m,p-Xylene	10.983	91	859421	80.36 ug/L	98
74) o-Xylene	11.424	91	461647	41.53 ug/L	99
75) Styrene	11.471	104	357293	42.78 ug/L	94
76) Bromoform	11.535	173	49180	30.44 ug/L	94
77) Isopropylbenzene	11.729	105	515601	39.70 ug/L	94
80) cis-1,4-Dichloro-2-butene	12.070	53	36453	40.47 ug/L	91
81) n-Propylbenzene	12.146	91	714077	49.29 ug/L	100
82) Bromobenzene	12.170	156	117638	41.24 ug/L	98
83) 1,1,2,2-Tetrachloroethane	12.205	83	124272	50.07 ug/L	96
84) 1,3,5-Trimethylbenzene	12.329	105	472168	43.86 ug/L	98
85) 2-Chlorotoluene	12.334	91	457168	45.05 ug/L	91
86) trans-1,4-Dichloro-2-B...	12.387	53	29197	34.49 ug/L	91
87) 1,2,3-Trichloropropane	12.364	110	30816	42.27 ug/L #	83
88) Cyclohexanone	12.428	55	14731	239.45 ug/L	87
89) 4-Chlorotoluene	12.505	91	403687	42.88 ug/L	96
90) a-Methyl Styrene	12.593	118	265767	51.66 ug/L	97

SGS ACCUTEST FA34891

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\063016\
Data File : J0977743.D
Acq On : 30 Jun 2016 8:05 pm
Operator : darshnap
Sample : ecc5340-5 Inst : MSVOA6
Misc : MS34274,vj5357,,,,,
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Jul 01 08:04:01 2016
Quant Method : C:\msdchem\1\methods\MSJ062116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 21 11:35:53 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
91) tert-Butylbenzene	12.669	91	266469	42.53 ug/L	98
92) 1,2,4-Trimethylbenzene	12.740	105	462353	42.51 ug/L	98
93) Pentachloroethane	12.722	167	49543	30.21 ug/L	91
94) sec-Butylbenzene	12.857	105	582396	45.22 ug/L	100
95) 4-Isopropyltoluene	12.987	119	469691	43.07 ug/L	94
96) 1,3-Dichlorobenzene	13.122	146	225193	43.72 ug/L	93
97) 1,4-Dichlorobenzene	13.204	146	223371	42.69 ug/L	89
98) n-Butylbenzene	13.416	92	270447	43.41 ug/L	96
99) Benzyl Chloride	13.433	126	30783	33.97 ug/L	97
100) 1,2-Dichlorobenzene	13.633	146	217939	44.51 ug/L	93
101) 1,2-Dibromo-3-Chloropr...	14.367	75	15037	34.94 ug/L #	75
102) Hexachlorobutadiene	14.914	225	68274	32.32 ug/L	91
103) 1,2,4-Trichlorobenzene	14.961	180	134009	34.22 ug/L	97
104) Naphthalene	15.243	128	229048	39.36 ug/L	98
105) 1,2,3-Trichlorobenzene	15.413	180	104530	35.53 ug/L	94
107) Ethanol	4.267	45	13623m	759.57 ug/L	
108) acrolein	4.743	56	68077	185.70 ug/L #	70
109) Tert Butyl Alcohol	5.366	59	70497	359.41 ug/L	91
110) tert Amyl alcohol	7.563	59	58109	379.07 ug/L	85
111) Isobutyl alcohol	7.440	42	58259	987.65 ug/L #	69
112) 1,4-Dioxane	8.650	88	17095	982.24 ug/L #	58
113) 3,3-Dimethyl-1-butanol	10.419	57	320491	2242.66 ug/L	89

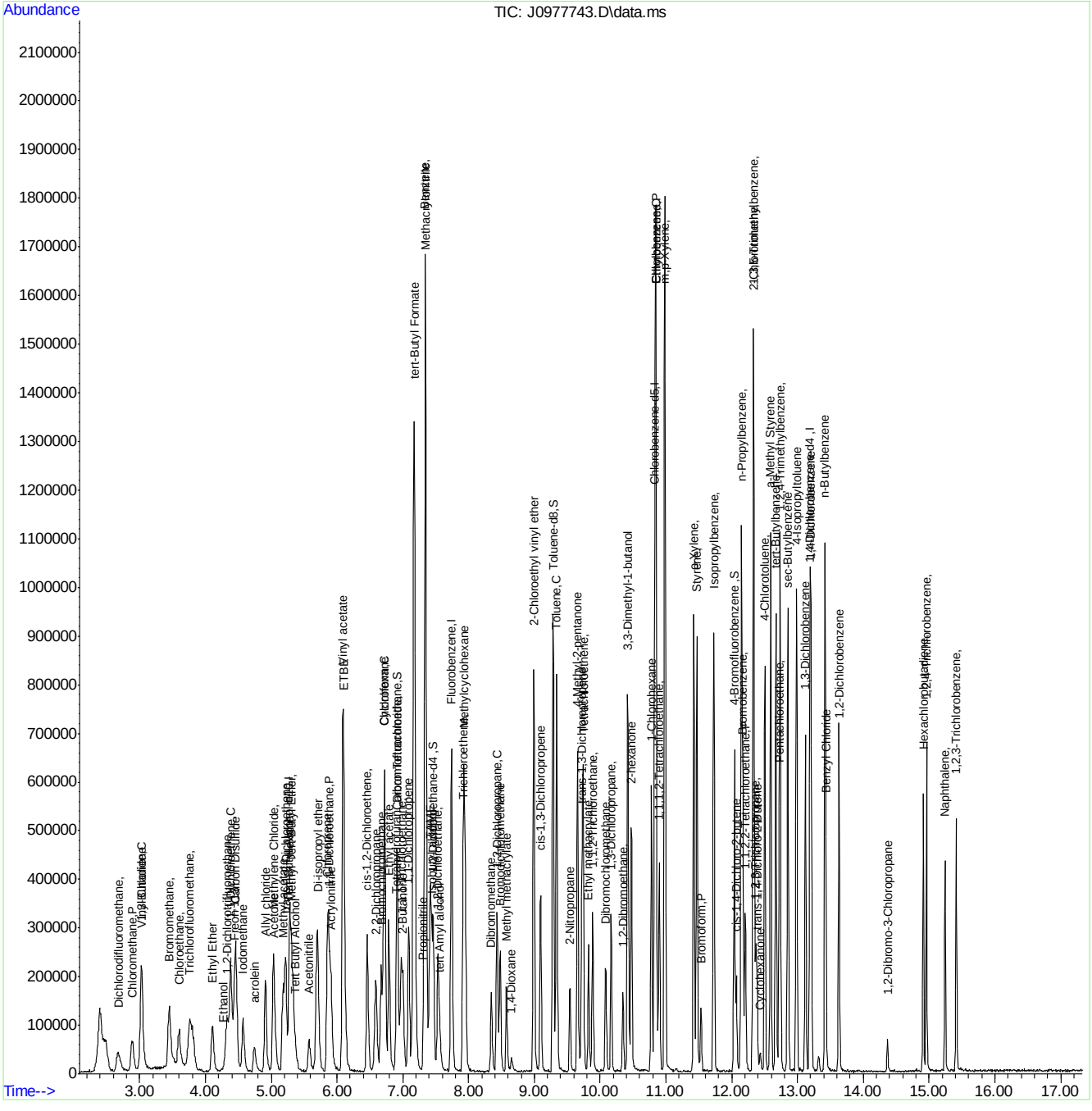
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST FA34891

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\063016\
Data File : J0977743.D
Acq On : 30 Jun 2016 8:05 pm
Operator : darshnap
Sample : ecc5340-5 Inst : MSVOA6
Misc : MS34274,vj5357,,,,,
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Jul 01 08:04:01 2016
Quant Method : C:\msdchem\1\methods\MSJ062116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 21 11:35:53 2016
Response via : Initial Calibration



SGS ACCUTEST FA34891

Manual Integration Approval Summary

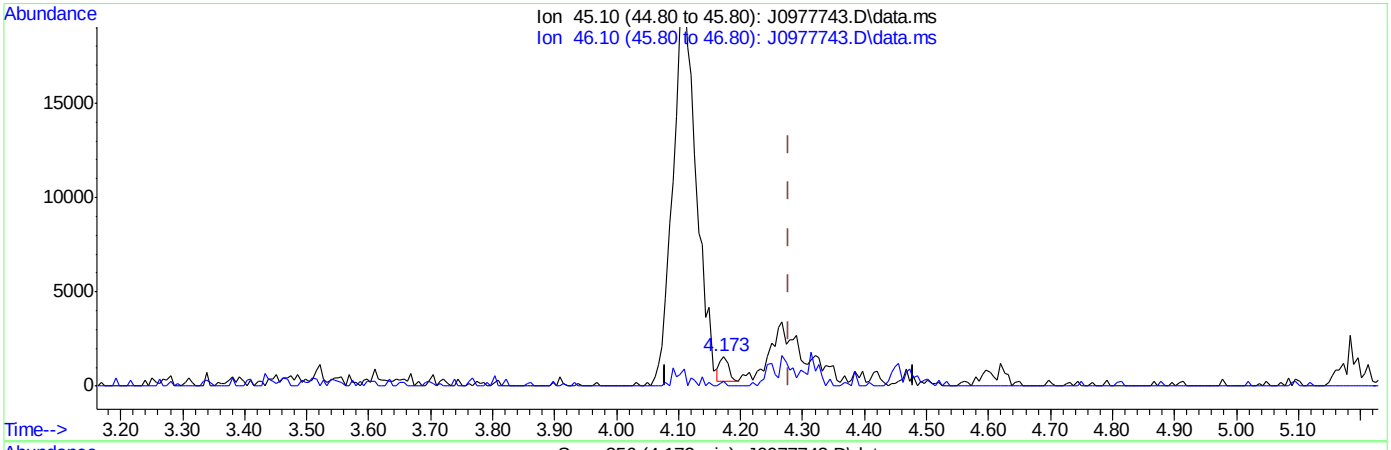
Sample Number:	VJ5357-ECC5340	**Method:**	SW846 8260B
Lab FileID:	J0977743.D	**Analyst approved:**	07/01/16 09:26 Darshna Patel
Injection Time:	06/30/16 20:05	**Supervisor approved:**	07/01/16 11:59 Juan Garcia

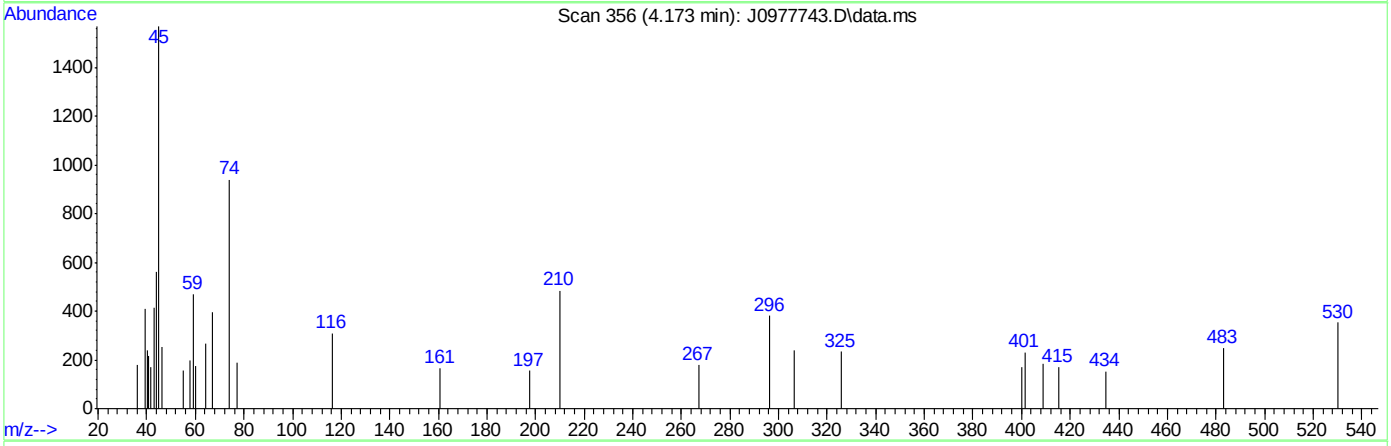
Parameter	CAS	Sig#	R.T. (min.)	Reason
Ethyl Alcohol	64-17-5		4.27	Poor instrument integration

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\063016\
Data File : J0977743.D
Acq On : 30 Jun 2016 8:05 pm
Operator : darshnap
Sample : ecc5340-5 Inst : MSVOA6
Misc : MS34274,vj5357,,,,,
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Jul 01 07:53:29 2016
Quant Method : C:\msdchem\1\methods\MSJ062116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 21 11:35:53 2016
Response via : Initial Calibration





TIC: J0977743.D\data.ms

(107) Ethanol

4.173min (-0.106) 73.21ug/L

response 1313

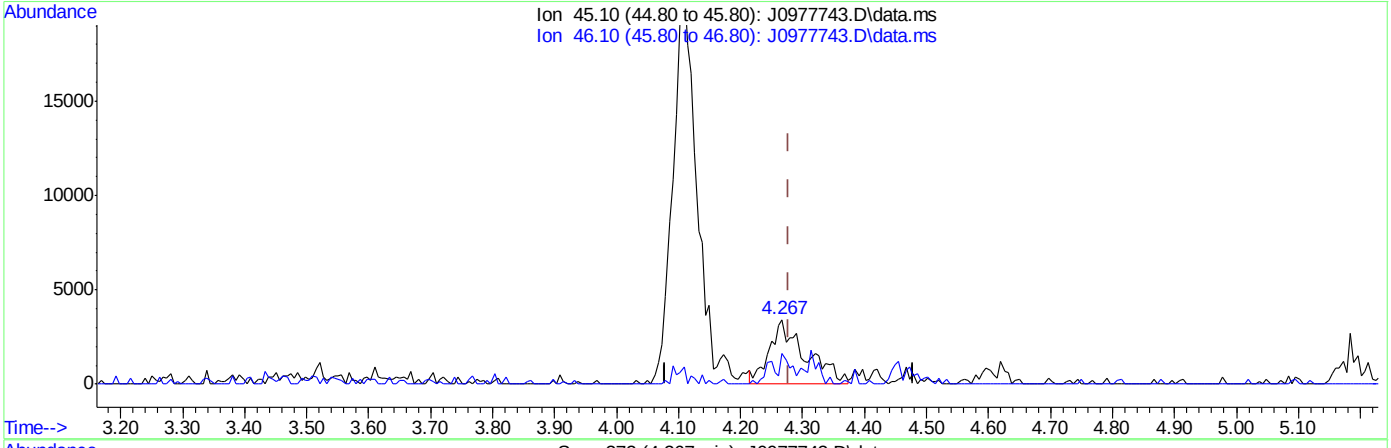
Ion	Exp%	Act%
45.10	100	100
46.10	23.90	18.87
0.00	0.00	0.00
0.00	0.00	0.00

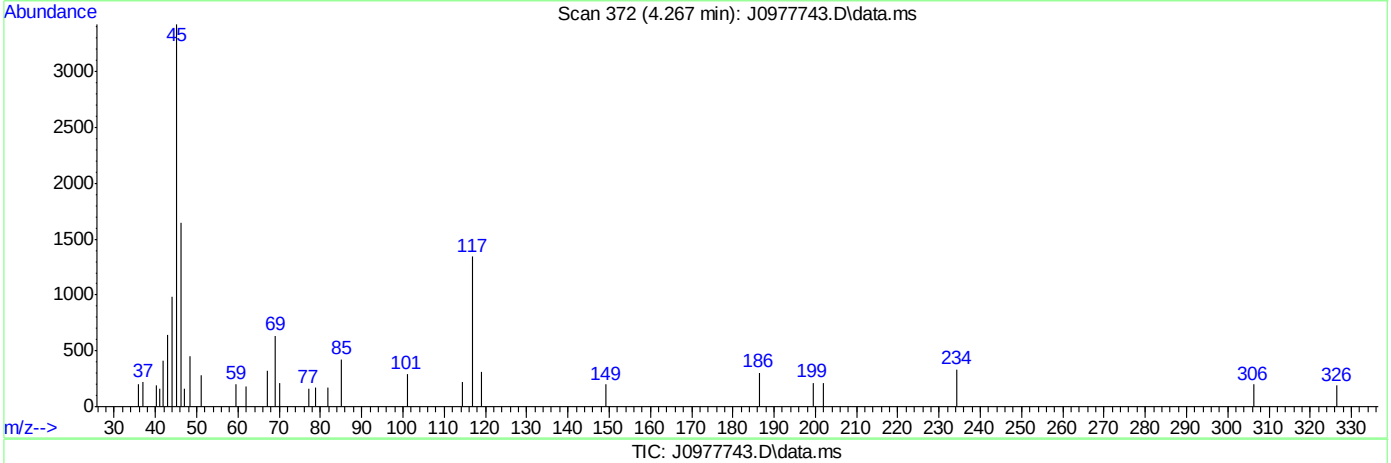
SGS ACCUTEST FA34891

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\063016\
Data File : J0977743.D
Acq On : 30 Jun 2016 8:05 pm
Operator : darshnap
Sample : ecc5340-5 Inst : MSVOA6
Misc : MS34274,vj5357,,,,,
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Jul 01 07:53:29 2016
Quant Method : C:\msdchem\1\methods\MSJ062116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 21 11:35:53 2016
Response via : Initial Calibration





TIC: J0977743.D\data.ms

(107) Ethanol

4.267min (-0.012) 759.57ug/L m

response 13623

Ion	Exp%	Act%
45.10	100	100
46.10	23.90	48.16#
0.00	0.00	0.00
0.00	0.00	0.00

SGS ACCUTEST FA34891

Manual Integrations APPROVED (compounds with "m" flag)
Juan Garcia
07/05/16 13:38

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\070116\
Data File : J0977747.D
Acq On : 1 Jul 2016 9:19 am
Operator : darshnap
Sample : ic5359-2 Inst : MSVOA6
Misc : MS34274,vj5359,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 01 10:51:59 2016
Quant Method : C:\msdchem\1\methods\MSJ070116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 21 11:35:53 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.740	96	485138	50.00	ug/L	0.00
56) Chlorobenzene-d5	10.830	117	337461	50.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	13.192	152	163323	50.00	ug/L	0.00
106) Tert Butyl Alcohol-d10	5.295	65	28623m	250.00	ug/L	0.00
System Monitoring Compounds						
36) Dibromofluoromethane	6.911	113	108802	42.61	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 85.22%			
46) 1,2-Dichloroethane-d4	7.464	65	153397	41.17	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 82.34%			
57) Toluene-d8	9.285	98	456318	51.16	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 102.32%			
79) 4-Bromofluorobenzene	12.041	95	163244	52.03	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 104.06%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.675	85	14022	3.94	ug/L	78
3) Chloromethane	2.875	50	17890	4.98	ug/L	96
4) Vinyl Chloride	3.016	62	19015	5.29	ug/L	95
5) 1,3-Butadiene	3.016	54	12790	4.69	ug/L #	81
6) Bromomethane	3.439	94	16874	5.53	ug/L	89
7) Chloroethane	3.597	64	12917	5.14	ug/L	92
8) Trichlorofluoromethane	3.774	101	28788	4.77	ug/L	81
9) Ethyl Ether	4.115	59	8546	3.70	ug/L #	73
10) 1,2-Dichlorotrifluoroe...	4.314	67	10861	3.67	ug/L #	74
11) 1,1-Dichloroethene	4.391	61	16227	3.57	ug/L	93
12) Freon 113	4.449	101	9118	3.33	ug/L #	74
13) Carbon Disulfide	4.455	76	29807	3.67	ug/L	88
14) Iodomethane	4.567	142	15375	3.68	ug/L	92
15) Allyl chloride	4.914	41	14372	3.85	ug/L #	71
16) Methylene Chloride	5.031	49	26889	6.90	ug/L	92
17) Acetone	5.055	58	2914	18.06	ug/L #	53
18) Methyl acetate	5.178	74	6279	21.30	ug/L #	89
19) trans-1,2-Dichloroethene	5.219	61	13654	3.77	ug/L	89
20) Hexane	5.290	56	8687	3.58	ug/L #	83
21) Methyl Tert Butyl Ether	5.319	73	25272	3.22	ug/L	86
22) Acetonitrile	5.595	40	1864	15.28	ug/L	85
23) Di-isopropyl ether	5.713	45	35334	3.76	ug/L	92
24) Chloroprene	5.860	53	17666	3.40	ug/L	88
25) 1,1-Dichloroethane	5.877	63	20617	4.22	ug/L	72
26) Acrylonitrile	5.918	53	17674	24.78	ug/L	94
27) ETBE	6.106	59	33647	3.42	ug/L	90
28) Vinyl acetate	6.095	43	105602	20.41	ug/L	94
29) cis-1,2-Dichloroethene	6.471	96	12907	4.33	ug/L #	65
30) 2,2-Dichloropropane	6.594	77	13010	3.15	ug/L	91
31) Bromochloromethane	6.665	128	5112	3.92	ug/L #	69
32) Cyclohexane	6.712	56	17649	3.85	ug/L	90
33) Chloroform	6.717	83	19483	3.46	ug/L	80
34) Ethyl acetate	6.800	43	35890	19.07	ug/L	99

SGS ACCUTEST FA34891

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\070116\
Data File : J0977747.D
Acq On : 1 Jul 2016 9:19 am
Operator : darshnap
Sample : ic5359-2 Inst : MSVOA6
Misc : MS34274,vj5359,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 01 10:51:59 2016
Quant Method : C:\msdchem\1\methods\MSJ070116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 21 11:35:53 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
35) Tetrahydrofuran	6.900	42	1841	3.40	ug/L #	67
37) Carbon Tetrachloride	6.911	117	13100	3.29	ug/L	88
38) 1,1,1-Trichloroethane	6.982	97	18104	3.70	ug/L	95
39) 2-Butanone	7.011	43	14286	19.26	ug/L	94
40) 1,1-Dichloropropene	7.093	75	14363	4.03	ug/L	85
41) tert-Butyl Formate	7.176	59	50601	30.59	ug/L #	47
42) Propionitrile	7.317	54	11289	43.01	ug/L	89
43) Methacrylonitrile	7.346	41	50154	42.03	ug/L	89
44) Benzene	7.346	78	42745	4.26	ug/L	85
45) TAME	7.417	73	27957	3.55	ug/L	88
47) 1,2-Dichloroethane	7.534	62	15995	3.48	ug/L	92
48) Trichloroethene	7.916	95	11389	4.23	ug/L	92
49) Methylcyclohexane	7.951	83	20334	4.33	ug/L #	79
50) Dibromomethane	8.351	93	4946	3.34	ug/L	88
51) 1,2-Dichloropropane	8.433	63	12610	4.80	ug/L	87
52) Bromodichloromethane	8.480	83	12590	3.12	ug/L	94
53) Methyl methacrylate	8.580	41	6109	3.28	ug/L #	79
54) 2-Chloroethyl vinyl ether	8.991	63	36714	26.12	ug/L	98
55) cis-1,3-Dichloropropene	9.097	75	14775	3.39	ug/L	94
58) Toluene	9.338	91	45973	4.26	ug/L	94
59) 2-Nitropropane	9.544	41	7418	12.38	ug/L	80
60) 4-Methyl-2-pentanone	9.661	43	36453	21.80	ug/L	92
61) trans-1,3-Dichloropropene	9.732	75	12674	3.55	ug/L	83
62) Tetrachloroethene	9.743	166	8959	3.46	ug/L	82
63) Ethyl methacrylate	9.831	69	11004	4.16	ug/L #	83
64) 1,1,2-Trichloroethane	9.884	83	7138	4.02	ug/L #	76
65) Dibromochloromethane	10.084	129	8172	3.23	ug/L	94
66) 1,3-Dichloropropane	10.166	76	14171	3.81	ug/L	86
67) 1,2-Dibromoethane	10.354	107	7301	3.50	ug/L #	37
68) 2-hexanone	10.478	43	20739	18.24	ug/L	76
69) 1-Chlorohexane	10.783	91	13001	3.86	ug/L #	79
70) Ethylbenzene	10.842	91	58081	4.61	ug/L	90
71) Chlorobenzene	10.848	112	30144	4.39	ug/L	90
72) 1,1,1,2-Tetrachloroethane	10.895	131	9165	3.95	ug/L	94
73) m,p-Xylene	10.983	91	75705	7.78	ug/L	96
74) o-Xylene	11.424	91	37879	3.62	ug/L	99
75) Styrene	11.477	104	29039	3.82	ug/L	87
76) Bromoform	11.535	173	4097	2.79	ug/L	75
77) Isopropylbenzene	11.729	105	47169	3.99	ug/L	87
80) cis-1,4-Dichloro-2-butene	12.070	53	2839	3.71	ug/L #	64
81) n-Propylbenzene	12.146	91	62989	4.84	ug/L	93
82) Bromobenzene	12.170	156	10956	4.16	ug/L #	52
83) 1,1,2,2-Tetrachloroethane	12.211	83	10549	4.77	ug/L	94
84) 1,3,5-Trimethylbenzene	12.329	105	39053	4.04	ug/L	83
85) 2-Chlorotoluene	12.334	91	41358	4.53	ug/L	91
86) trans-1,4-Dichloro-2-B...	12.393	53	2659	3.37	ug/L #	38
87) 1,2,3-Trichloropropane	12.364	110	3154	4.83	ug/L #	70
88) Cyclohexanone	12.440	55	1496	27.52	ug/L #	73
89) 4-Chlorotoluene	12.505	91	35390	3.93	ug/L	91
90) a-Methyl Styrene	12.593	118	23514	5.08	ug/L	94

SGS ACCUTEST FA34891

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\070116\
Data File : J0977747.D
Acq On : 1 Jul 2016 9:19 am
Operator : darshnap
Sample : ic5359-2 Inst : MSVOA6
Misc : MS34274,vj5359,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 01 10:51:59 2016
Quant Method : C:\msdchem\1\methods\MSJ070116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 21 11:35:53 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
91) tert-Butylbenzene	12.669	91	23966	4.25	ug/L	87
92) 1,2,4-Trimethylbenzene	12.740	105	44827	4.59	ug/L	95
93) Pentachloroethane	12.722	167	6138	4.16	ug/L	87
94) sec-Butylbenzene	12.852	105	51888	4.48	ug/L	93
95) 4-Isopropyltoluene	12.981	119	42320	4.32	ug/L	97
96) 1,3-Dichlorobenzene	13.122	146	22678	4.72	ug/L	99
97) 1,4-Dichlorobenzene	13.204	146	20645	4.20	ug/L	75
98) n-Butylbenzene	13.421	92	23416	4.18	ug/L	91
99) Benzyl Chloride	13.445	126	1935	2.38	ug/L #	1
100) 1,2-Dichlorobenzene	13.633	146	18751	4.28	ug/L	86
101) 1,2-Dibromo-3-Chloropr...	14.367	75	1311	3.39	ug/L #	55
102) Hexachlorobutadiene	14.914	225	5301	2.79	ug/L	87
103) 1,2,4-Trichlorobenzene	14.967	180	13789	3.92	ug/L	80
104) Naphthalene	15.249	128	19793	4.28	ug/L	97
105) 1,2,3-Trichlorobenzene	15.413	180	10461	4.18	ug/L	92
107) Ethanol	4.238	45	1498m	100.27	ug/L	
108) acrolein	4.743	56	7609	24.38	ug/L	93
109) Tert Butyl Alcohol	5.348	59	6711m	40.84	ug/L	
110) tert Amyl alcohol	7.552	59	5252	41.13	ug/L #	44
111) Isobutyl alcohol	7.434	42	5401	108.30	ug/L #	68
112) 1,4-Dioxane	8.650	88	1819	123.30	ug/L	74
113) 3,3-Dimethyl-1-butanol	10.419	57	27457	247.17	ug/L	84

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

7.6.11

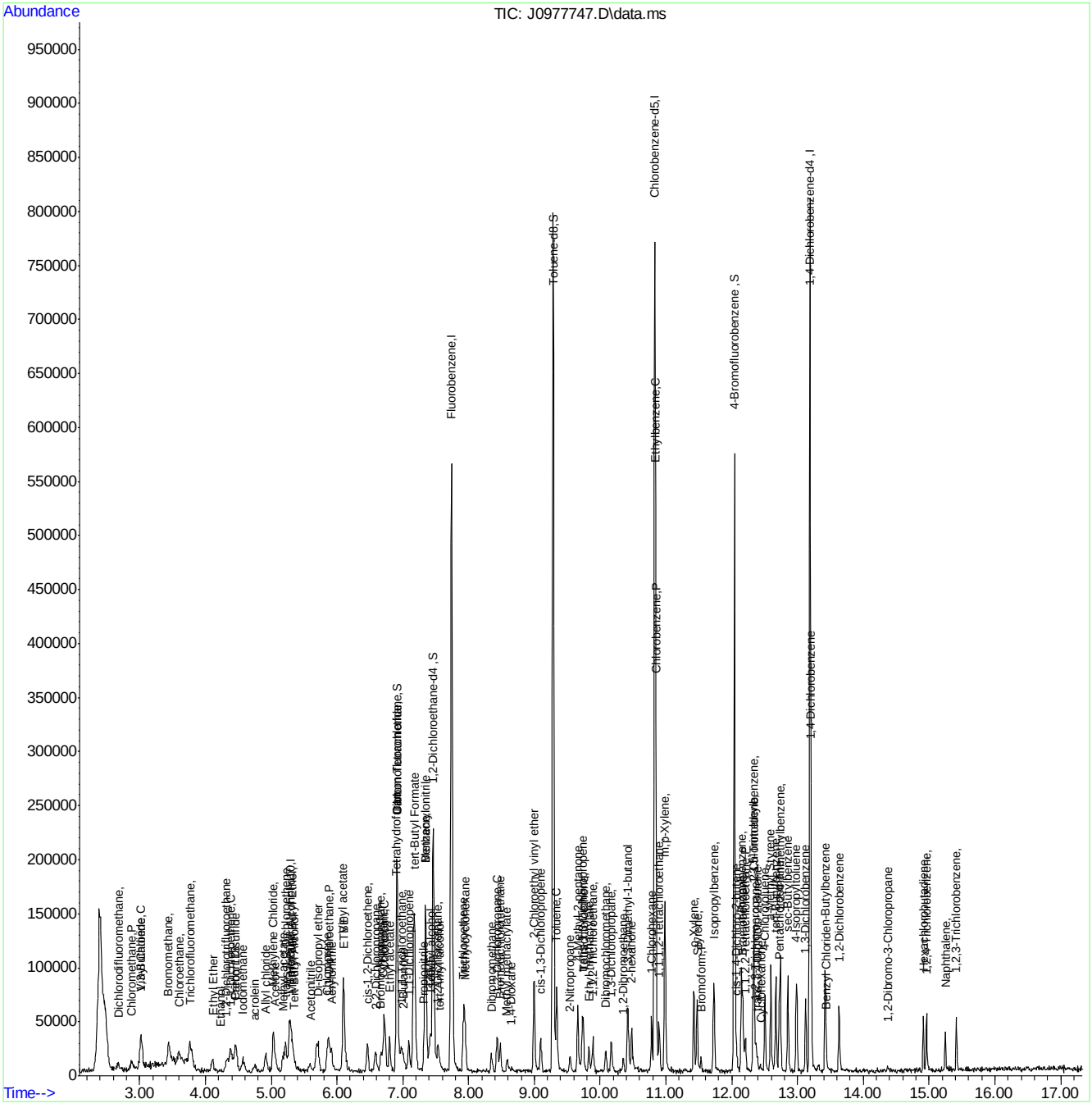
7

SGS ACCUTEST FA34891

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\070116\
Data File : J0977747.D
Acq On : 1 Jul 2016 9:19 am
Operator : darshnap
Sample : ic5359-2 Inst : MSVOA6
Misc : MS34274,vj5359,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 01 10:51:59 2016
Quant Method : C:\msdchem\1\methods\MSJ070116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 21 11:35:53 2016
Response via : Initial Calibration



SGS ACCUTEST FA34891

Manual Integration Approval Summary

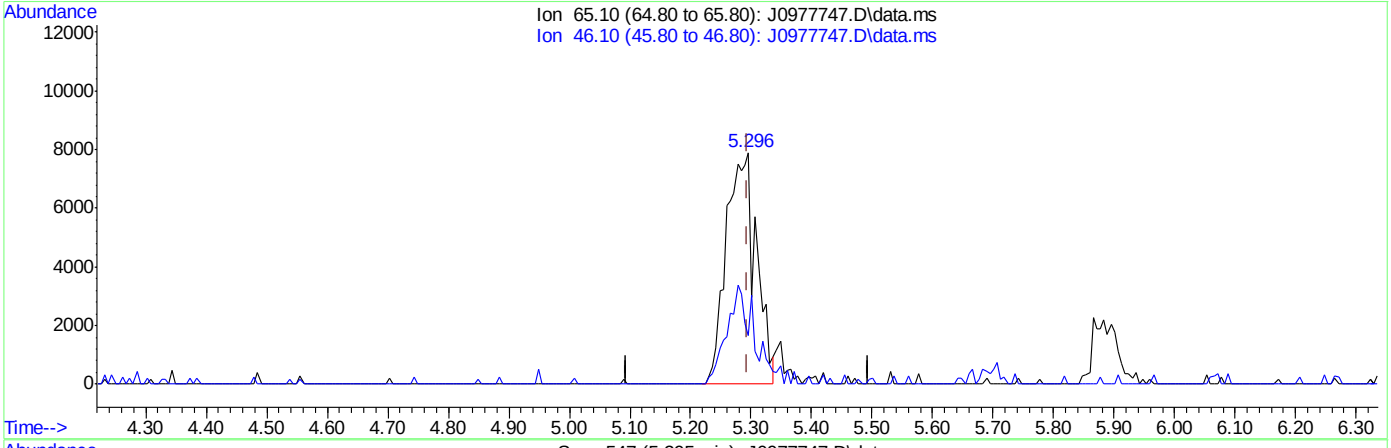
Sample Number:	VJ5359-IC5359	**Method:**	SW846 8260B
Lab FileID:	J0977747.D	**Analyst approved:**	07/05/16 08:03 Darshna Patel
Injection Time:	07/01/16 09:19	**Supervisor approved:**	07/05/16 13:38 Juan Garcia

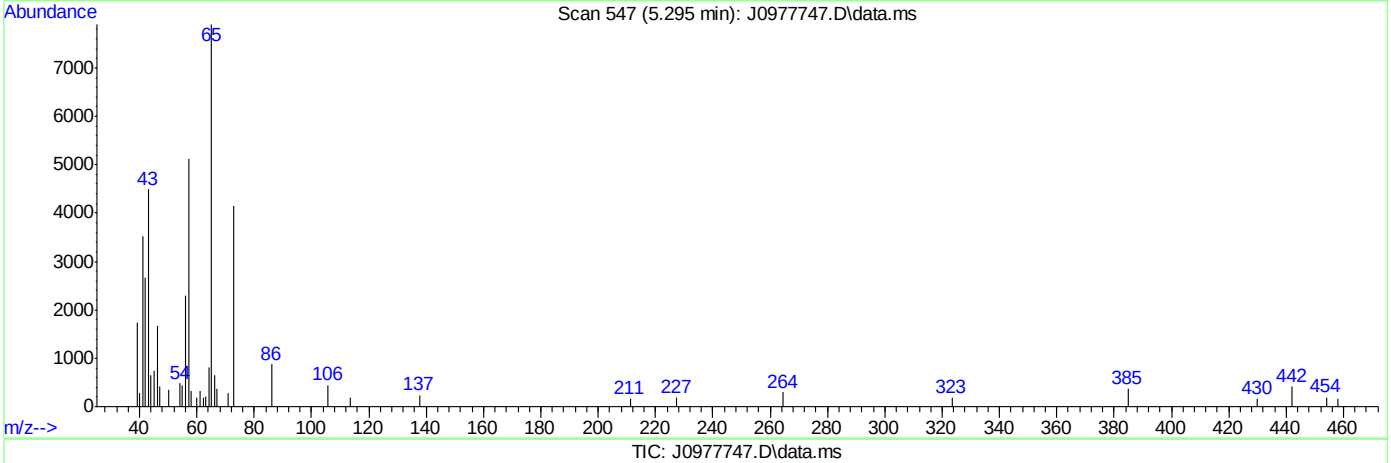
Parameter	CAS	Sig#	R.T. (min.)	Reason
Ethyl Alcohol	64-17-5		4.24	Poor instrument integration
Tert Butyl Alcohol-D10			5.30	Poor instrument integration
Tert-Butyl Alcohol	75-65-0		5.35	Poor instrument integration

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\070116\
Data File : J0977747.D
Acq On : 1 Jul 2016 9:19 am
Operator : darshnap
Sample : ic5359-2 Inst : MSVOA6
Misc : MS34274,vj5359,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 01 10:41:49 2016
Quant Method : C:\msdchem\1\methods\MSJ070116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 21 11:35:53 2016
Response via : Initial Calibration





TIC: J0977747.D\data.ms

(106) Tert Butyl Alcohol-d10 (I)

5.295min (+0.000) 250.00ug/L

response 27075

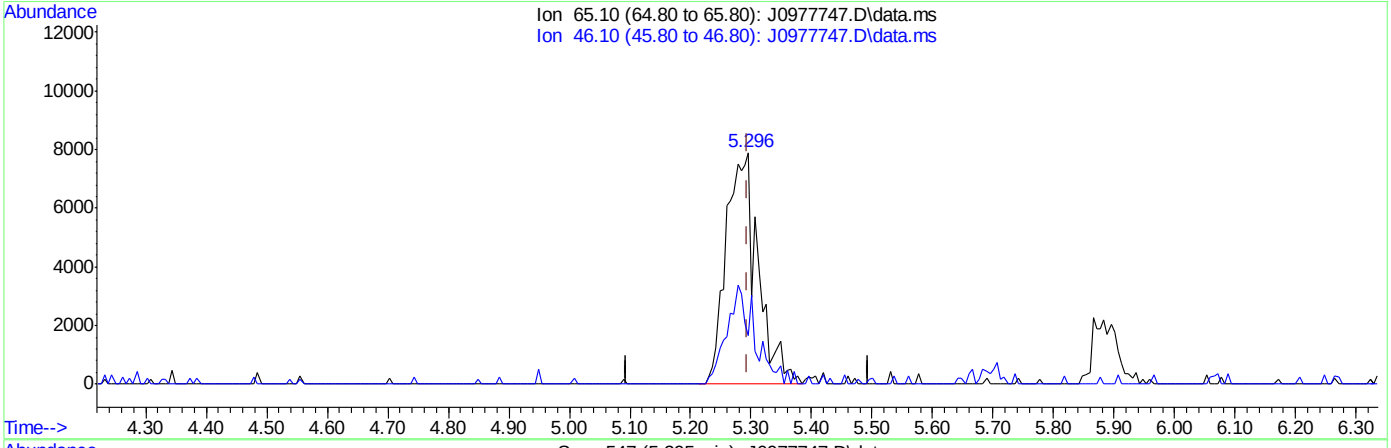
Ion	Exp%	Act%
65.10	100	100
46.10	20.40	15.59
0.00	0.00	0.00
0.00	0.00	0.00

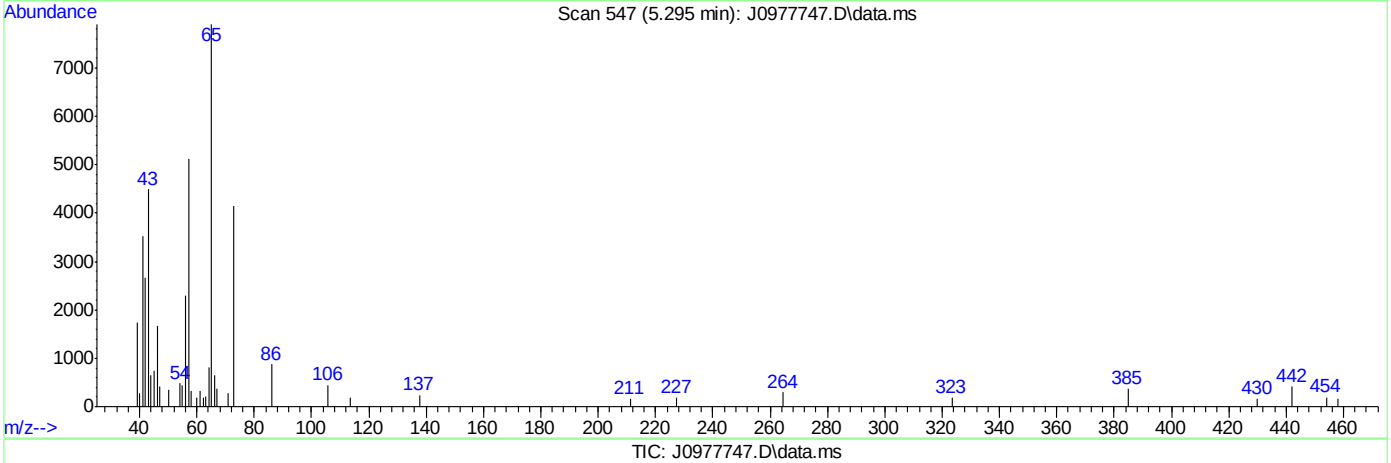
SGS ACCUTEST FA34891

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\070116\
Data File : J0977747.D
Acq On : 1 Jul 2016 9:19 am
Operator : darshnap
Sample : ic5359-2 Inst : MSVOA6
Misc : MS34274,vj5359,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 01 10:41:49 2016
Quant Method : C:\msdchem\1\methods\MSJ070116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 21 11:35:53 2016
Response via : Initial Calibration





TIC: J0977747.D\data.ms

(106) Tert Butyl Alcohol-d10 (I)

5.295min (+0.000) 250.00ug/L m

response 28623

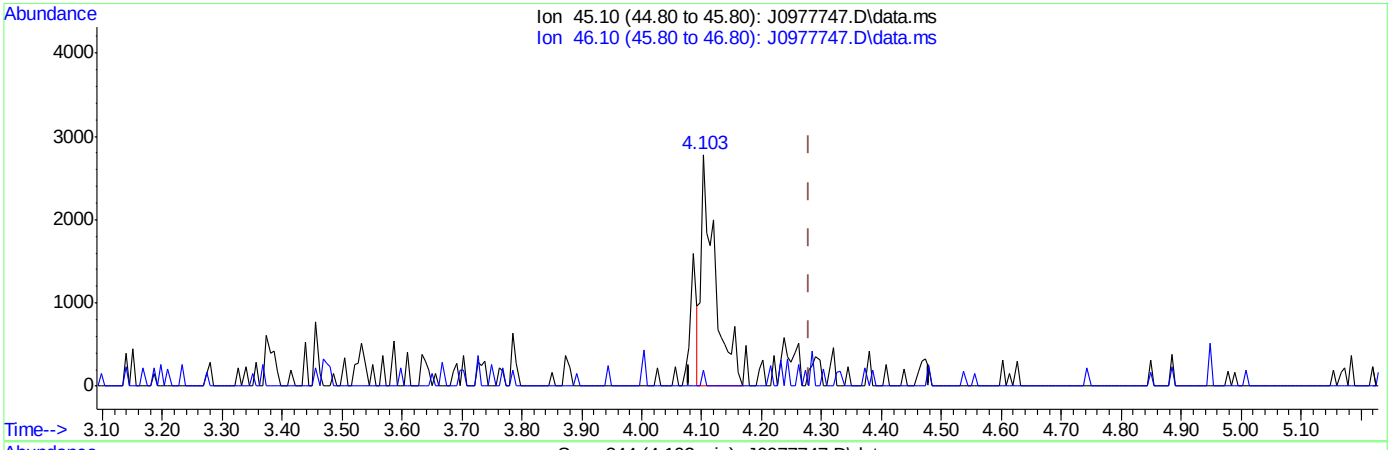
Ion	Exp%	Act%
65.10	100	100
46.10	20.40	21.21
0.00	0.00	0.00
0.00	0.00	0.00

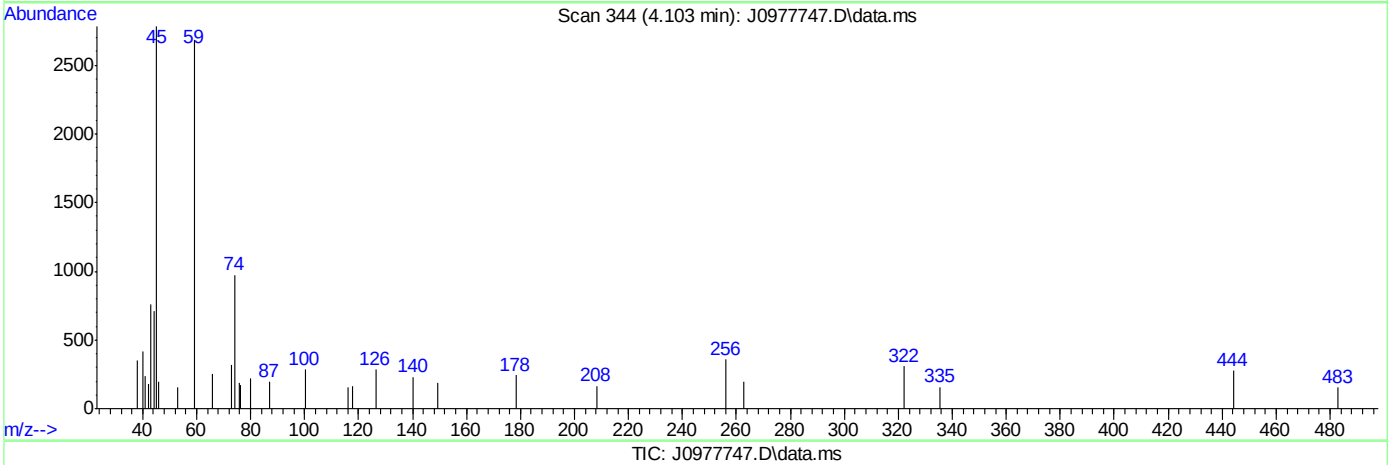
SGS ACCUTEST FA34891

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\070116\
Data File : J0977747.D
Acq On : 1 Jul 2016 9:19 am
Operator : darshnap
Sample : ic5359-2 Inst : MSVOA6
Misc : MS34274,vj5359,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 01 10:41:49 2016
Quant Method : C:\msdchem\1\methods\MSJ070116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 21 11:35:53 2016
Response via : Initial Calibration





TIC: J0977747.D\data.ms

(107) Ethanol

4.103min (-0.176) 300.73ug/L

response 4493

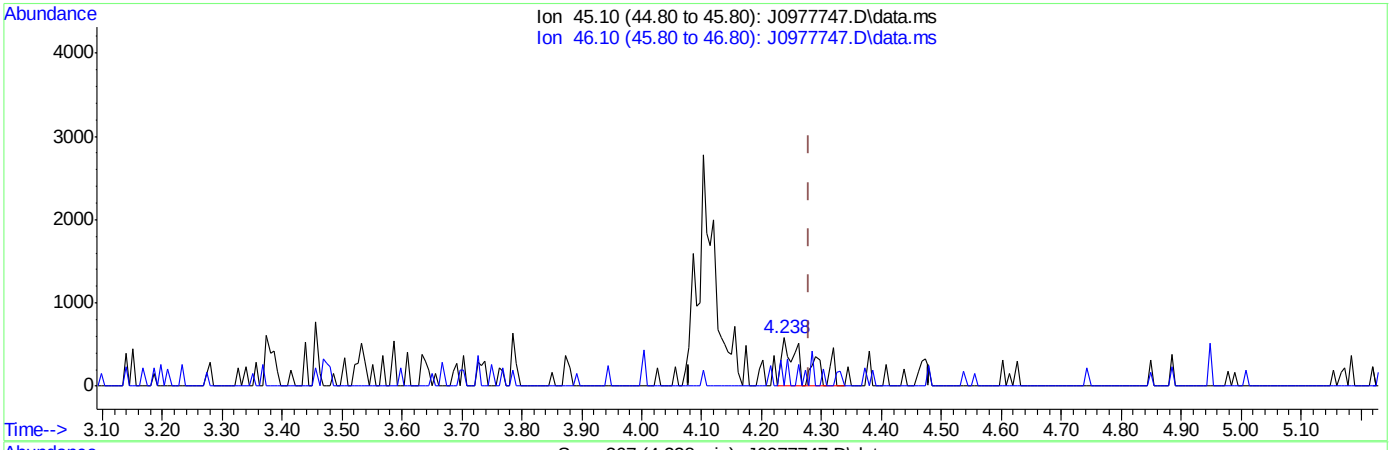
Ion	Exp%	Act%
45.10	100	100
46.10	23.90	7.04
0.00	0.00	0.00
0.00	0.00	0.00

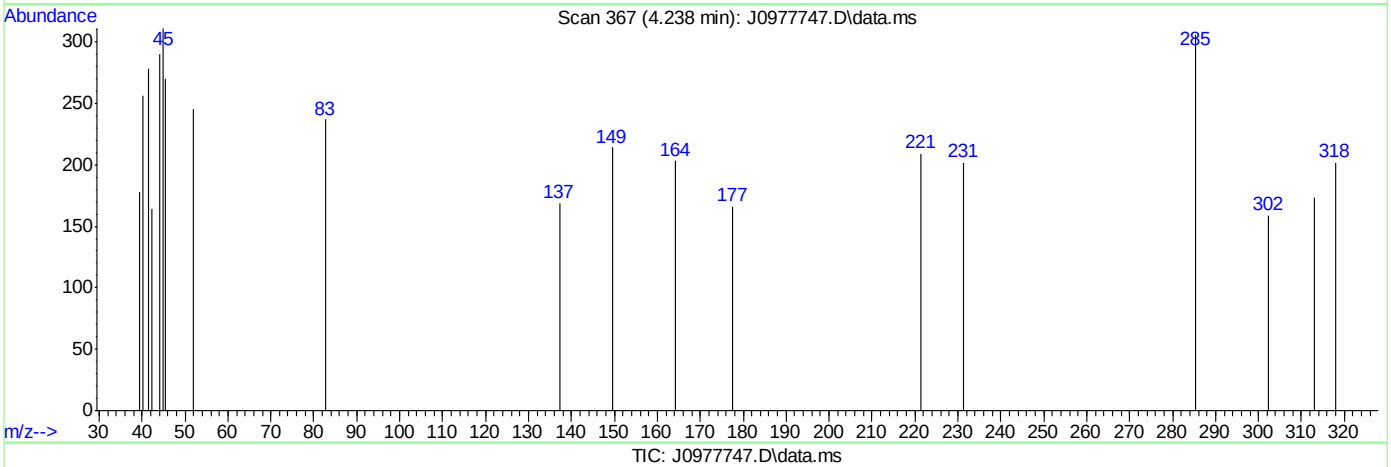
SGS ACCUTEST FA34891

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\070116\
Data File : J0977747.D
Acq On : 1 Jul 2016 9:19 am
Operator : darshnap
Sample : ic5359-2 Inst : MSVOA6
Misc : MS34274,vj5359,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 01 10:41:49 2016
Quant Method : C:\msdchem\1\methods\MSJ070116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 21 11:35:53 2016
Response via : Initial Calibration





TIC: J0977747.D\data.ms

(107) Ethanol

4.238min (-0.041) 100.27ug/L m

response 1498

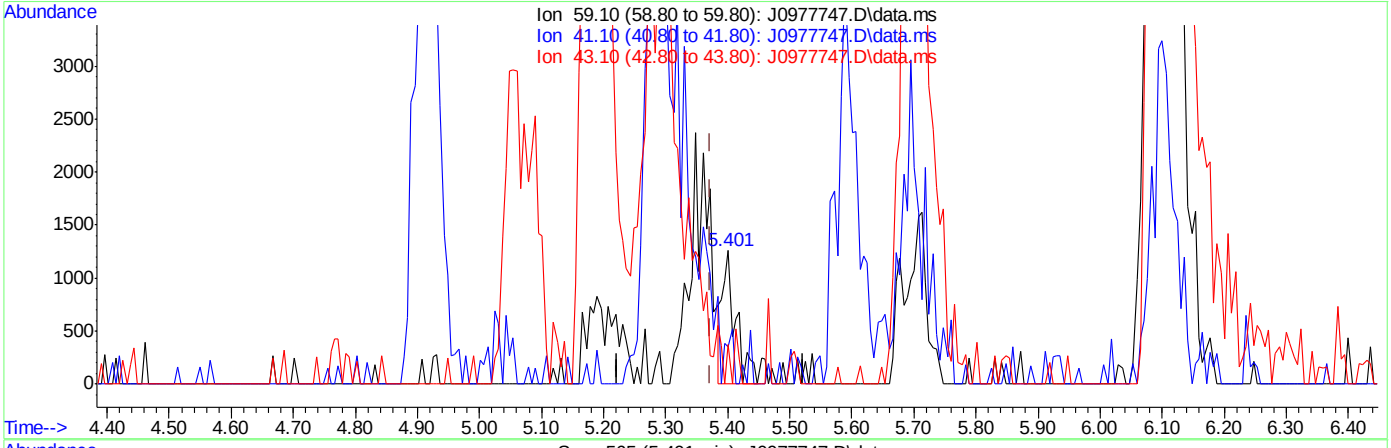
Ion	Exp%	Act%
45.10	100	100
46.10	23.90	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

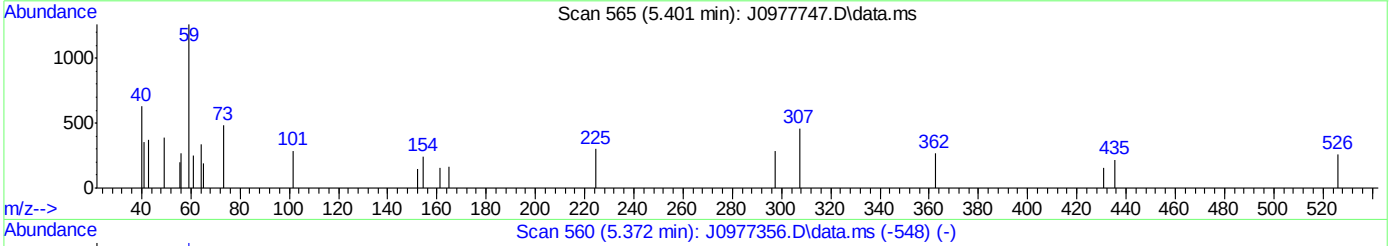
SGS ACCUTEST FA34891

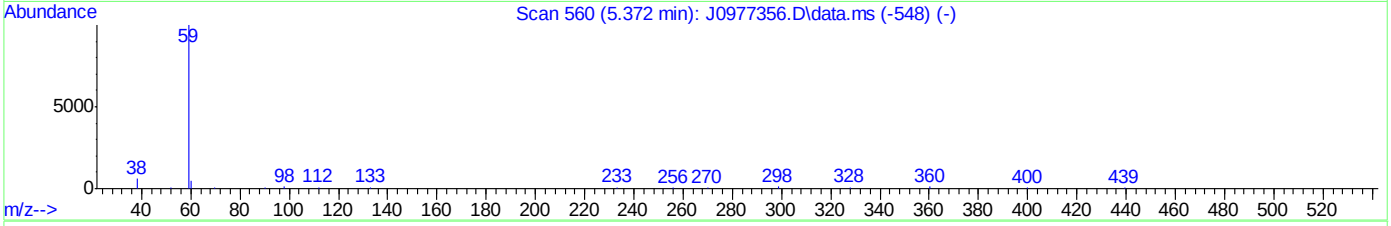
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\070116\
Data File : J0977747.D
Acq On : 1 Jul 2016 9:19 am
Operator : darshnap
Sample : ic5359-2 Inst : MSVOA6
Misc : MS34274,vj5359,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 01 10:41:49 2016
Quant Method : C:\msdchem\1\methods\MSJ070116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 21 11:35:53 2016
Response via : Initial Calibration







TIC: J0977747.D\data.ms

(109) Tert Butyl Alcohol

5.401min (+0.029) 11.83ug/L

response 1945

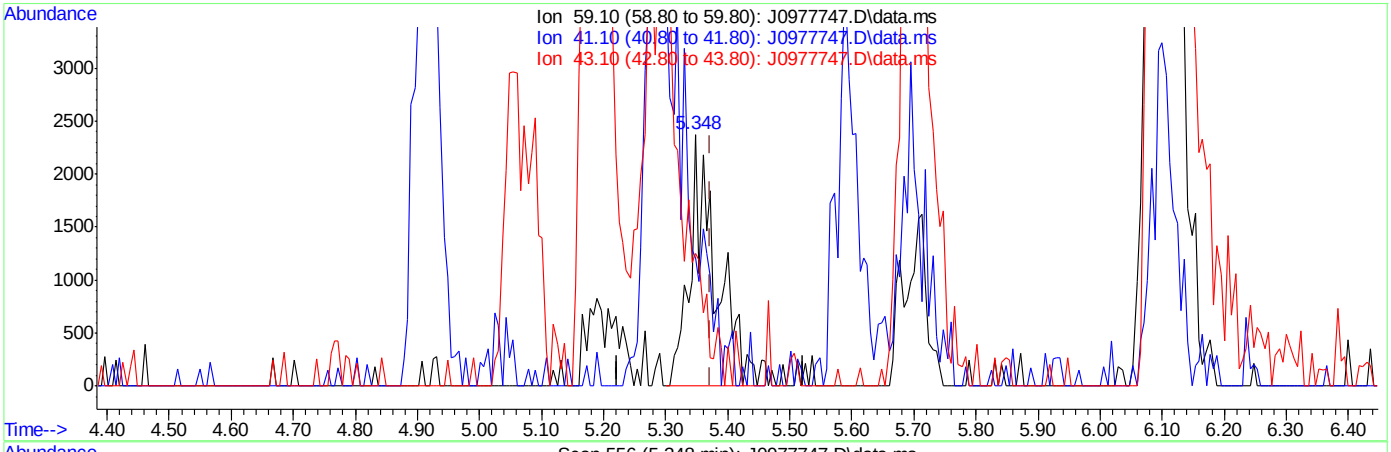
Ion	Exp%	Act%
59.10	100	100
41.10	40.70	28.15
43.10	31.20	29.34
0.00	0.00	0.00

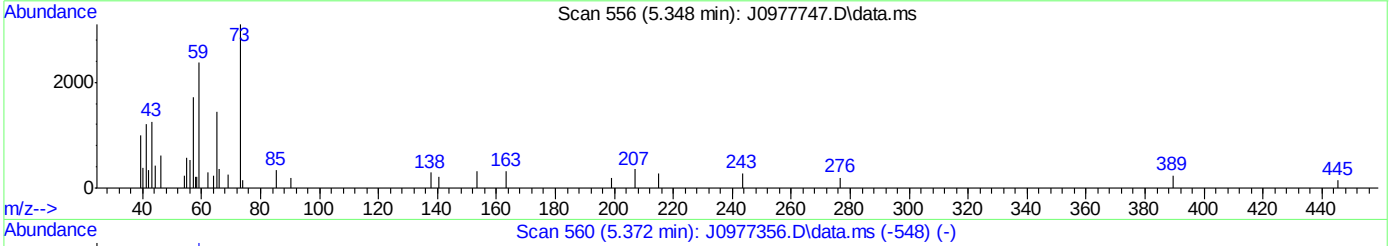
SGS ACCUTEST FA34891

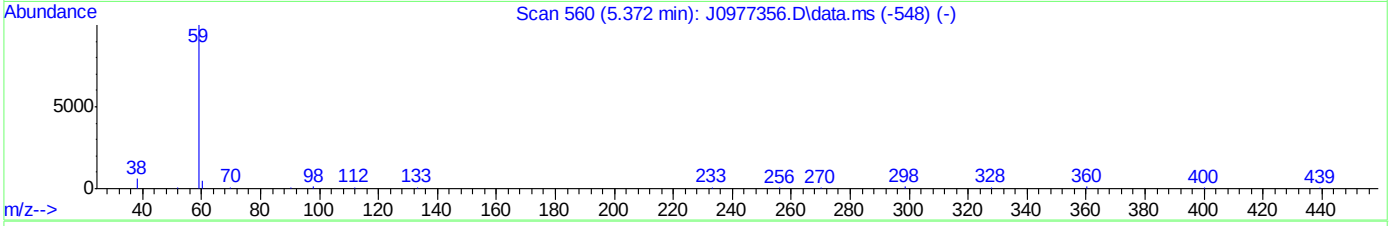
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\070116\
Data File : J0977747.D
Acq On : 1 Jul 2016 9:19 am
Operator : darshnap
Sample : ic5359-2 Inst : MSVOA6
Misc : MS34274,vj5359,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 01 10:41:49 2016
Quant Method : C:\msdchem\1\methods\MSJ070116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 21 11:35:53 2016
Response via : Initial Calibration







TIC: J0977747.D\data.ms

(109) Tert Butyl Alcohol

5.348min (-0.024) 40.84ug/L m

response 6711

Ion	Exp%	Act%
59.10	100	100
41.10	40.70	50.78
43.10	31.20	52.76#
0.00	0.00	0.00

Manual Integrations APPROVED (compounds with "m" flag)
Juan Garcia
07/05/16 13:38

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\070116\
Data File : J0977748.D
Acq On : 1 Jul 2016 9:42 am
Operator : darshnap
Sample : ic5359-3 Inst : MSVOA6
Misc : MS34274,vj5359,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 01 10:52:40 2016
Quant Method : C:\msdchem\1\methods\MSJ070116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 21 11:35:53 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.740	96	476532	50.00	ug/L	0.00
56) Chlorobenzene-d5	10.830	117	341780	50.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	13.186	152	160734	50.00	ug/L	0.00
106) Tert Butyl Alcohol-d10	5.284	65	29064	250.00	ug/L	-0.01
System Monitoring Compounds						
36) Dibromofluoromethane	6.911	113	116358	46.39	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 92.78%			
46) 1,2-Dichloroethane-d4	7.464	65	159655	43.62	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 87.24%			
57) Toluene-d8	9.285	98	468996	51.91	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 103.82%			
79) 4-Bromofluorobenzene	12.041	95	150759	48.82	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 97.64%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.663	85	24222	6.96	ug/L	82
3) Chloromethane	2.881	50	30978	8.81	ug/L	79
4) Vinyl Chloride	3.016	62	32132	9.16	ug/L	92
5) 1,3-Butadiene	3.022	54	26350	9.95	ug/L	84
6) Bromomethane	3.439	94	29841	10.05	ug/L	88
7) Chloroethane	3.609	64	20526	8.41	ug/L	89
8) Trichlorofluoromethane	3.768	101	52888	8.96	ug/L	80
9) Ethyl Ether	4.109	59	21385	9.44	ug/L	94
10) 1,2-Dichlorotrifluoroe...	4.326	67	31129	10.71	ug/L	89
11) 1,1-Dichloroethene	4.391	61	35541	8.01	ug/L	86
12) Freon 113	4.444	101	23103	8.64	ug/L #	68
13) Carbon Disulfide	4.461	76	77932	9.77	ug/L	88
14) Iodomethane	4.573	142	35958	8.76	ug/L	85
15) Allyl chloride	4.914	41	27412	7.48	ug/L	90
16) Methylene Chloride	5.031	49	43932	11.48	ug/L	89
17) Acetone	5.049	58	7317	46.16	ug/L #	48
18) Methyl acetate	5.178	74	13416	46.34	ug/L #	50
19) trans-1,2-Dichloroethene	5.225	61	32598	9.16	ug/L	86
20) Hexane	5.290	56	25547	10.73	ug/L #	77
21) Methyl Tert Butyl Ether	5.331	73	59549	7.73	ug/L	95
22) Acetonitrile	5.566	40	9603	80.29	ug/L #	66
23) Di-isopropyl ether	5.707	45	79181	8.57	ug/L	98
24) Chloroprene	5.854	53	36703	7.22	ug/L	93
25) 1,1-Dichloroethane	5.877	63	44518	9.29	ug/L	95
26) Acrylonitrile	5.912	53	33994	48.63	ug/L	97
27) ETBE	6.100	59	63041	6.53	ug/L	99
28) Vinyl acetate	6.089	43	186631	36.73	ug/L	96
29) cis-1,2-Dichloroethene	6.459	96	25395	8.67	ug/L #	81
30) 2,2-Dichloropropane	6.588	77	30944	7.64	ug/L	77
31) Bromochloromethane	6.676	128	11407	8.89	ug/L	91
32) Cyclohexane	6.717	56	45333	10.07	ug/L	82
33) Chloroform	6.723	83	42608	7.72	ug/L	96
34) Ethyl acetate	6.794	43	72329	39.13	ug/L	95

SGS ACCUTEST FA34891

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\070116\
Data File : J0977748.D
Acq On : 1 Jul 2016 9:42 am
Operator : darshnap
Sample : ic5359-3 Inst : MSVOA6
Misc : MS34274,vj5359,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 01 10:52:40 2016
Quant Method : C:\msdchem\1\methods\MSJ070116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 21 11:35:53 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
35) Tetrahydrofuran	6.905	42	5718	10.75 ug/L #	75
37) Carbon Tetrachloride	6.911	117	26226	6.70 ug/L	87
38) 1,1,1-Trichloroethane	6.982	97	39248	8.16 ug/L	88
39) 2-Butanone	7.011	43	30946	42.48 ug/L	99
40) 1,1-Dichloropropene	7.093	75	29125	8.31 ug/L	91
41) tert-Butyl Formate	7.176	59	120808	74.10 ug/L #	79
42) Propionitrile	7.323	54	26940	104.50 ug/L #	51
43) Methacrylonitrile	7.340	41	103913	88.64 ug/L	97
44) Benzene	7.346	78	98392	10.01 ug/L	87
45) TAME	7.417	73	58973	7.62 ug/L	86
47) 1,2-Dichloroethane	7.534	62	35568	7.90 ug/L	95
48) Trichloroethene	7.916	95	25118	9.49 ug/L	85
49) Methylcyclohexane	7.945	83	44428	9.63 ug/L #	82
50) Dibromomethane	8.351	93	13307	9.12 ug/L #	76
51) 1,2-Dichloropropane	8.433	63	24909	9.65 ug/L	92
52) Bromodichloromethane	8.474	83	30375	7.66 ug/L	96
53) Methyl methacrylate	8.580	41	14590	7.98 ug/L #	76
54) 2-Chloroethyl vinyl ether	8.991	63	73138	52.97 ug/L	91
55) cis-1,3-Dichloropropene	9.097	75	33003	7.71 ug/L	88
58) Toluene	9.338	91	103946	9.56 ug/L	93
59) 2-Nitropropane	9.538	41	15646	25.78 ug/L #	85
60) 4-Methyl-2-pentanone	9.661	43	81178	47.93 ug/L	88
61) trans-1,3-Dichloropropene	9.726	75	28784	7.97 ug/L	76
62) Tetrachloroethene	9.743	166	20742	7.91 ug/L	90
63) Ethyl methacrylate	9.831	69	23606	8.82 ug/L	81
64) 1,1,2-Trichloroethane	9.884	83	17257	9.65 ug/L	81
65) Dibromochloromethane	10.090	129	19155	7.48 ug/L	89
66) 1,3-Dichloropropane	10.166	76	34495	9.19 ug/L	90
67) 1,2-Dibromoethane	10.348	107	18276	8.66 ug/L	79
68) 2-hexanone	10.478	43	57163	49.65 ug/L	91
69) 1-Chlorohexane	10.783	91	32107	9.42 ug/L	88
70) Ethylbenzene	10.848	91	121641	9.54 ug/L	98
71) Chlorobenzene	10.854	112	67770	9.79 ug/L	85
72) 1,1,1,2-Tetrachloroethane	10.901	131	19607	8.35 ug/L	90
73) m,p-Xylene	10.983	91	184874	18.75 ug/L	97
74) o-Xylene	11.424	91	91046	8.64 ug/L	95
75) Styrene	11.477	104	62231	8.08 ug/L	94
76) Bromoform	11.529	173	8844	5.94 ug/L	94
77) Isopropylbenzene	11.729	105	96642	8.07 ug/L	93
80) cis-1,4-Dichloro-2-butene	12.076	53	6611	8.71 ug/L #	76
81) n-Propylbenzene	12.146	91	137234	10.71 ug/L	93
82) Bromobenzene	12.170	156	23501	9.11 ug/L	95
83) 1,1,2,2-Tetrachloroethane	12.205	83	23053	10.58 ug/L	87
84) 1,3,5-Trimethylbenzene	12.329	105	90255	9.48 ug/L	99
85) 2-Chlorotoluene	12.334	91	87391	9.73 ug/L	96
86) trans-1,4-Dichloro-2-B...	12.387	53	5951	7.71 ug/L #	52
87) 1,2,3-Trichloropropane	12.370	110	5781	8.99 ug/L #	76
88) Cyclohexanone	12.434	55	3346	62.36 ug/L	88
89) 4-Chlorotoluene	12.499	91	76783	8.72 ug/L	95
90) a-Methyl Styrene	12.593	118	51914	11.40 ug/L	95

SGS ACCUTEST FA34891

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\070116\
Data File : J0977748.D
Acq On : 1 Jul 2016 9:42 am
Operator : darshnap
Sample : ic5359-3 Inst : MSVOA6
Misc : MS34274,vj5359,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 01 10:52:40 2016
Quant Method : C:\msdchem\1\methods\MSJ070116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 21 11:35:53 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
91) tert-Butylbenzene	12.669	91	48700	8.78	ug/L	90
92) 1,2,4-Trimethylbenzene	12.734	105	90079	9.36	ug/L	92
93) Pentachloroethane	12.722	167	12894	8.89	ug/L	91
94) sec-Butylbenzene	12.851	105	110661	9.71	ug/L	99
95) 4-Isopropyltoluene	12.987	119	95090	9.85	ug/L	99
96) 1,3-Dichlorobenzene	13.122	146	47555	10.12	ug/L	92
97) 1,4-Dichlorobenzene	13.204	146	44179	9.19	ug/L	86
98) n-Butylbenzene	13.416	92	52634	9.55	ug/L	98
99) Benzyl Chloride	13.433	126	5212	6.50	ug/L #	94
100) 1,2-Dichlorobenzene	13.633	146	42019	9.74	ug/L	88
101) 1,2-Dibromo-3-Chloropr...	14.373	75	3331	8.75	ug/L #	65
102) Hexachlorobutadiene	14.914	225	13496	7.22	ug/L	90
103) 1,2,4-Trichlorobenzene	14.961	180	26425	7.63	ug/L	83
104) Naphthalene	15.243	128	45750	9.85	ug/L	98
105) 1,2,3-Trichlorobenzene	15.413	180	21072	8.49	ug/L	95
107) Ethanol	4.244	45	3498m	230.58	ug/L	
108) acrolein	4.749	56	16119	51.04	ug/L #	52
109) Tert Butyl Alcohol	5.372	59	14155	84.89	ug/L	91
110) tert Amyl alcohol	7.552	59	11543	89.02	ug/L #	71
111) Isobutyl alcohol	7.440	42	9938	196.55	ug/L #	61
112) 1,4-Dioxane	8.656	88	3396	227.17	ug/L #	48
113) 3,3-Dimethyl-1-butanol	10.425	57	64277	563.45	ug/L	96

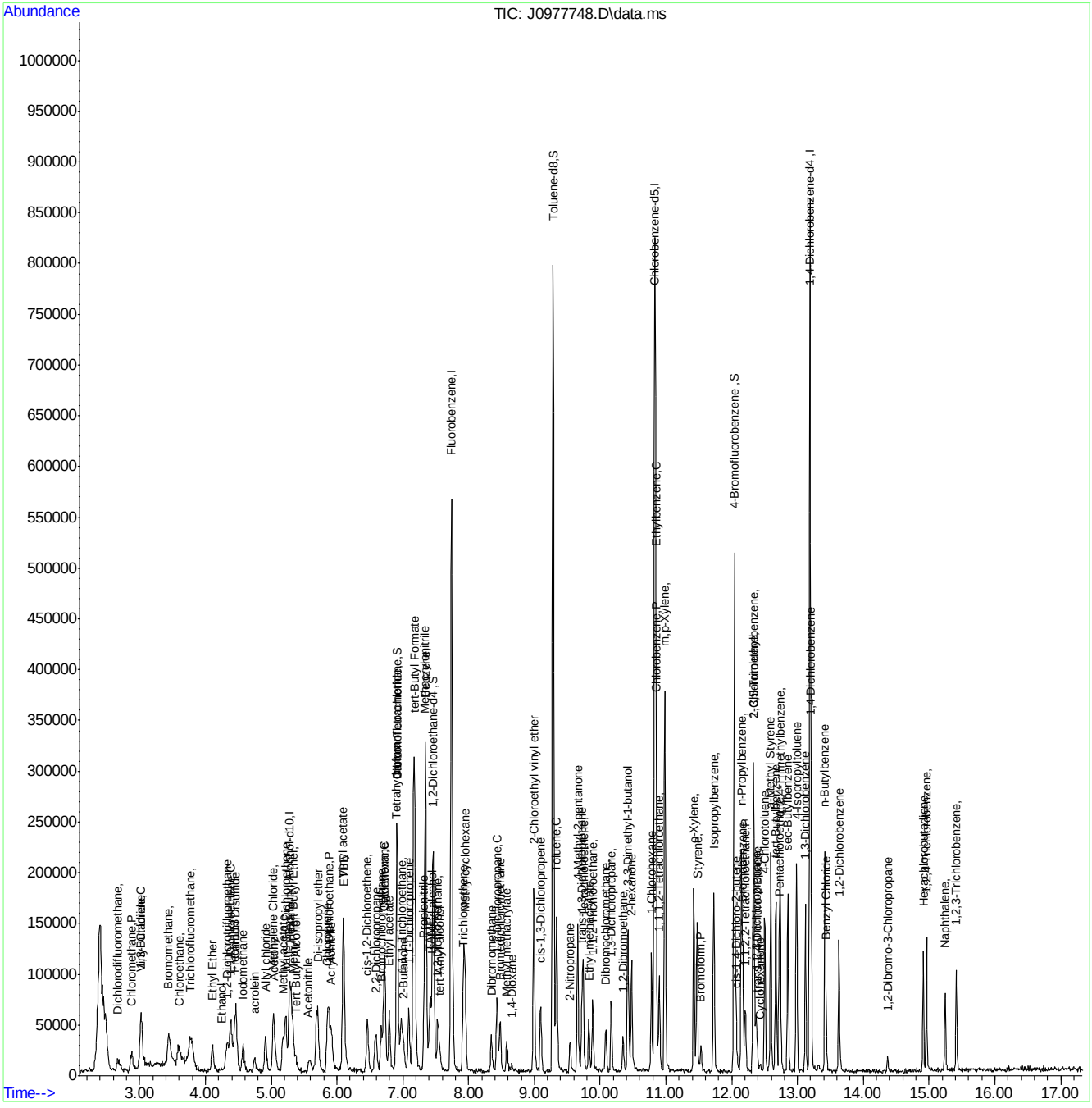
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST FA34891

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\070116\
Data File : J0977748.D
Acq On : 1 Jul 2016 9:42 am
Operator : darshnap
Sample : ic5359-3 Inst : MSVOA6
Misc : MS34274,vj5359,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 01 10:52:40 2016
Quant Method : C:\msdchem\1\methods\MSJ070116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 21 11:35:53 2016
Response via : Initial Calibration



SGS ACCUTEST FA34891

Manual Integration Approval Summary

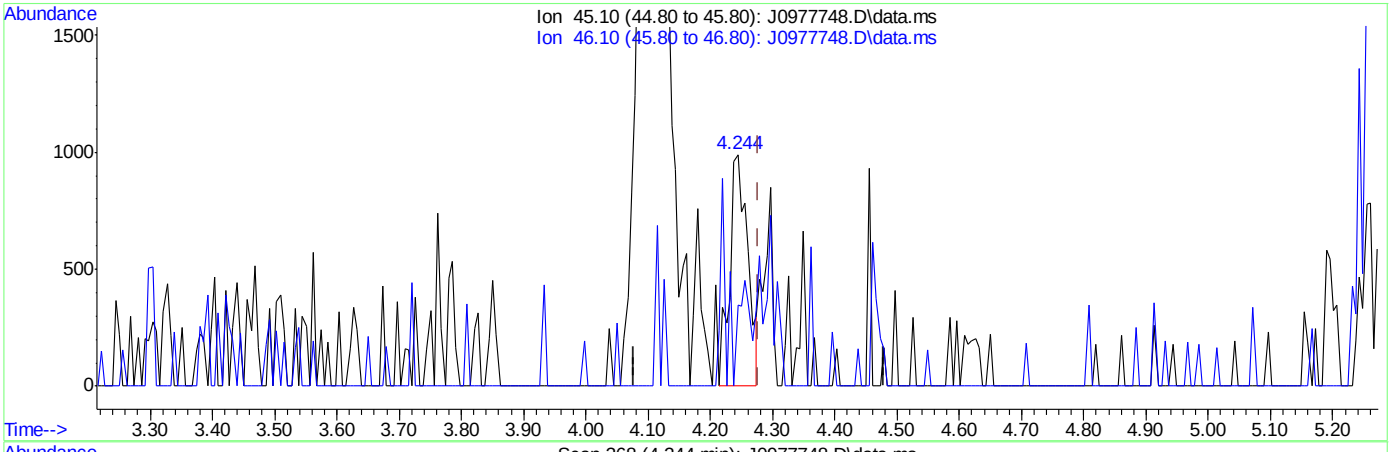
Sample Number:	VJ5359-IC5359	**Method:**	SW846 8260B
Lab FileID:	J0977748.D	**Analyst approved:**	07/05/16 08:03 Darshna Patel
Injection Time:	07/01/16 09:42	**Supervisor approved:**	07/05/16 13:38 Juan Garcia

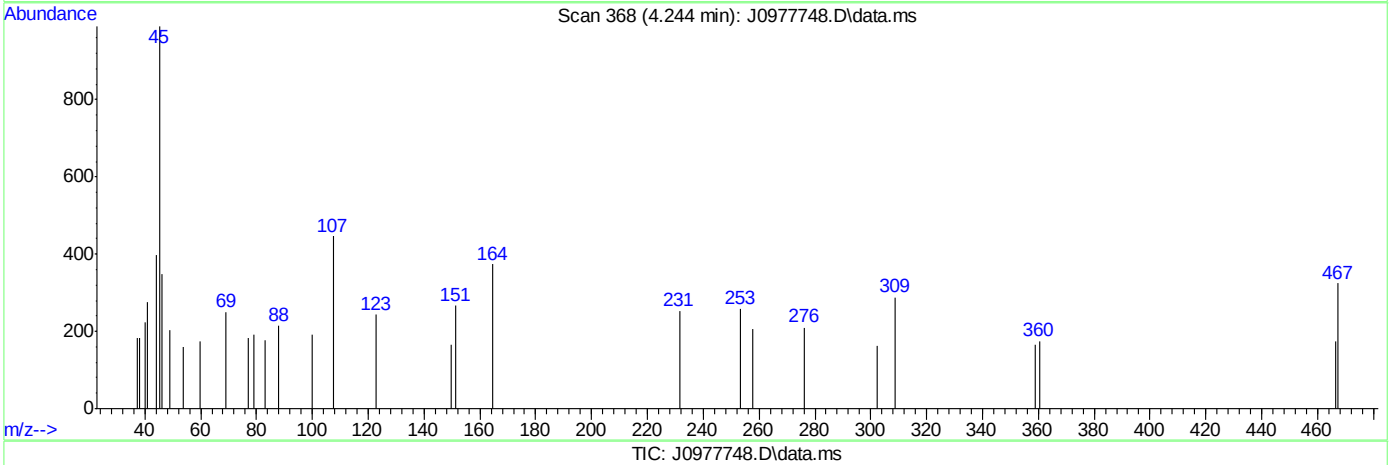
Parameter	CAS	Sig#	R.T. (min.)	Reason
Ethyl Alcohol	64-17-5		4.24	Poor instrument integration

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\070116\
Data File : J0977748.D
Acq On : 1 Jul 2016 9:42 am
Operator : darshnap
Sample : ic5359-3 Inst : MSVOA6
Misc : MS34274,vj5359,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 01 10:41:52 2016
Quant Method : C:\msdchem\1\methods\MSJ070116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 21 11:35:53 2016
Response via : Initial Calibration





TIC: J0977748.D\data.ms

(107) Ethanol

4.244min (-0.035) 129.99ug/L

response 1972

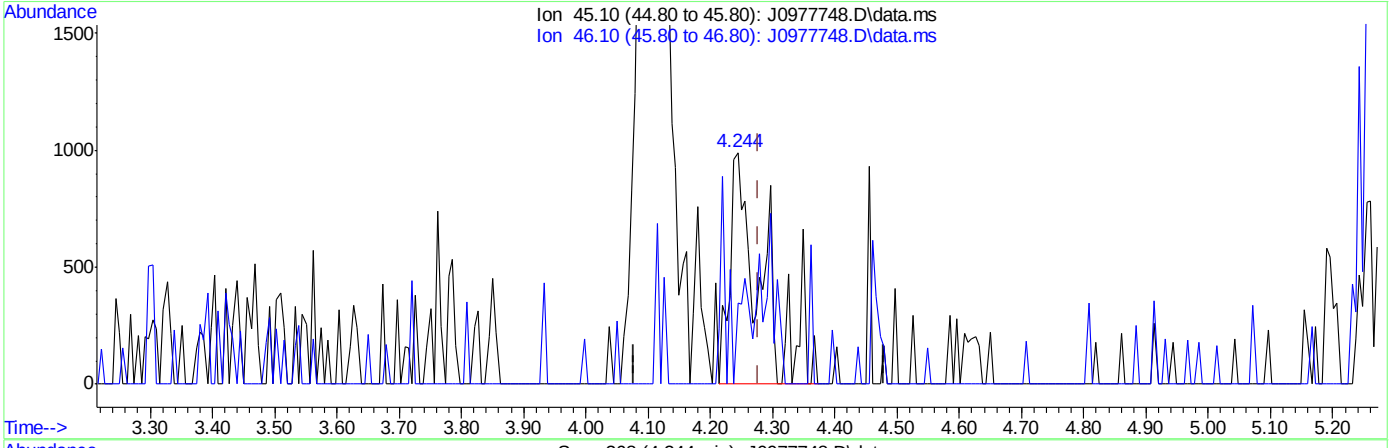
Ion	Exp%	Act%
45.10	100	100
46.10	23.90	11.31
0.00	0.00	0.00
0.00	0.00	0.00

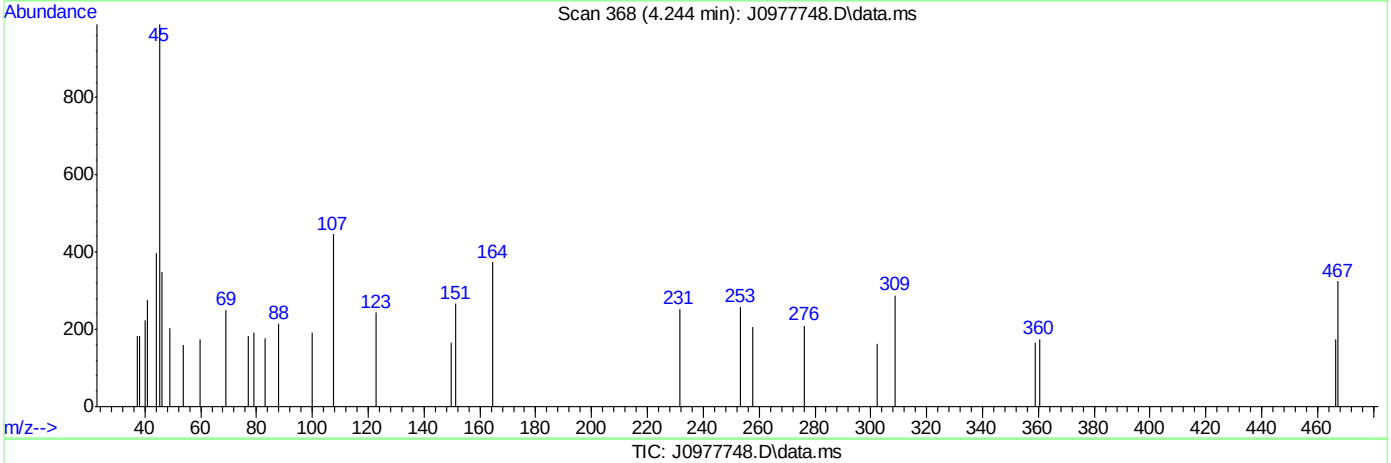
SGS ACCUTEST FA34891

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\070116\
Data File : J0977748.D
Acq On : 1 Jul 2016 9:42 am
Operator : darshnap
Sample : ic5359-3 Inst : MSVOA6
Misc : MS34274,vj5359,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 01 10:41:52 2016
Quant Method : C:\msdchem\1\methods\MSJ070116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 21 11:35:53 2016
Response via : Initial Calibration





TIC: J0977748.D\data.ms

(107) Ethanol

4.244min (-0.035) 230.58ug/L m

response 3498

Ion	Exp%	Act%
45.10	100	100
46.10	23.90	35.15
0.00	0.00	0.00
0.00	0.00	0.00

SGS ACCUTEST FA34891

Manual Integrations APPROVED (compounds with "m" flag)
Juan Garcia
07/05/16 13:38

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\070116\
Data File : J0977749.D
Acq On : 1 Jul 2016 10:05 am
Operator : darshnap
Sample : ic5359-4 Inst : MSVOA6
Misc : MS34274,vj5359,,,,,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jul 01 10:53:31 2016
Quant Method : C:\msdchem\1\methods\MSJ070116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 21 11:35:53 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.746	96	488972	50.00	ug/L	0.00
56) Chlorobenzene-d5	10.830	117	300117	50.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	13.186	152	137537	50.00	ug/L	0.00
106) Tert Butyl Alcohol-d10	5.290	65	32338	250.00	ug/L	# 0.00
System Monitoring Compounds						
36) Dibromofluoromethane	6.911	113	118038	45.87	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 91.74%			
46) 1,2-Dichloroethane-d4	7.464	65	157905	42.05	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 84.10%			
57) Toluene-d8	9.285	98	449917	56.72	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 113.44%#			
79) 4-Bromofluorobenzene	12.041	95	145539	55.08	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 110.16%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.681	85	57980	16.46	ug/L	87
3) Chloromethane	2.892	50	85494	24.12	ug/L	96
4) Vinyl Chloride	3.028	62	82986	23.56	ug/L	93
5) 1,3-Butadiene	3.033	54	61268	23.16	ug/L #	75
6) Bromomethane	3.457	94	76587	25.99	ug/L	94
7) Chloroethane	3.603	64	55770	23.53	ug/L	96
8) Trichlorofluoromethane	3.774	101	136534	22.94	ug/L	94
9) Ethyl Ether	4.115	59	59178	25.45	ug/L	89
10) 1,2-Dichlorotrifluoroe...	4.338	67	78579	26.34	ug/L	87
11) 1,1-Dichloroethene	4.391	61	88239	19.70	ug/L	93
12) Freon 113	4.455	101	60326	22.37	ug/L	85
13) Carbon Disulfide	4.467	76	205453	25.10	ug/L	97
14) Iodomethane	4.573	142	92286	21.91	ug/L	91
15) Allyl chloride	4.914	41	68273	18.15	ug/L	90
16) Methylene Chloride	5.043	49	84306	21.47	ug/L	90
17) Acetone	5.055	58	18604	114.38	ug/L #	62
18) Methyl acetate	5.184	74	31035	104.47	ug/L #	83
19) trans-1,2-Dichloroethene	5.219	61	76807	21.03	ug/L	91
20) Hexane	5.290	56	59724	24.44	ug/L #	81
21) Methyl Tert Butyl Ether	5.319	73	145964	18.48	ug/L	91
22) Acetonitrile	5.566	40	24604	201.31	ug/L #	80
23) Di-isopropyl ether	5.701	45	198623	20.96	ug/L	96
24) Chloroprene	5.860	53	92576	17.95	ug/L	95
25) 1,1-Dichloroethane	5.883	63	109457	22.25	ug/L	99
26) Acrylonitrile	5.913	53	95044	133.47	ug/L	96
27) ETBE	6.101	59	196765	19.85	ug/L	99
28) Vinyl acetate	6.095	43	604094	115.85	ug/L	100
29) cis-1,2-Dichloroethene	6.465	96	71839	23.91	ug/L #	81
30) 2,2-Dichloropropane	6.594	77	79402	19.10	ug/L	94
31) Bromochloromethane	6.676	128	29578	22.48	ug/L	88
32) Cyclohexane	6.717	56	110839	24.00	ug/L	95
33) Chloroform	6.723	83	117140	20.91	ug/L	91
34) Ethyl acetate	6.794	43	216105	113.95	ug/L	97

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\070116\
Data File : J0977749.D
Acq On : 1 Jul 2016 10:05 am
Operator : darshnap
Sample : ic5359-4 Inst : MSVOA6
Misc : MS34274,vj5359,,,,,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jul 01 10:53:31 2016
Quant Method : C:\msdchem\1\methods\MSJ070116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 21 11:35:53 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
35) Tetrahydrofuran	6.911	42	12537	22.98 ug/L	78
37) Carbon Tetrachloride	6.929	117	77916m	19.41 ug/L	
38) 1,1,1-Trichloroethane	6.982	97	102491	20.77 ug/L	93
39) 2-Butanone	7.011	43	83304	111.44 ug/L	99
40) 1,1-Dichloropropene	7.094	75	85452	23.77 ug/L	93
41) tert-Butyl Formate	7.176	59	293401	174.03 ug/L #	86
42) Propionitrile	7.311	54	66560	251.62 ug/L	89
43) Methacrylonitrile	7.346	41	265109	220.40 ug/L	96
44) Benzene	7.346	78	244996	24.43 ug/L	86
45) TAME	7.423	73	154365	19.44 ug/L	93
47) 1,2-Dichloroethane	7.534	62	90062	19.70 ug/L	96
48) Trichloroethene	7.922	95	61538	22.65 ug/L	94
49) Methylcyclohexane	7.945	83	108489	22.91 ug/L	91
50) Dibromomethane	8.351	93	33936	22.45 ug/L	93
51) 1,2-Dichloropropane	8.433	63	65238	24.64 ug/L	86
52) Bromodichloromethane	8.480	83	84538	20.77 ug/L	95
53) Methyl methacrylate	8.580	41	35142	18.76 ug/L #	77
54) 2-Chloroethyl vinyl ether	8.991	63	182124	128.55 ug/L	93
55) cis-1,3-Dichloropropene	9.097	75	87560	19.94 ug/L	92
58) Toluene	9.338	91	258888	27.64 ug/L	96
59) 2-Nitropropane	9.538	41	44960	84.36 ug/L	90
60) 4-Methyl-2-pentanone	9.655	43	191253	128.59 ug/L	93
61) trans-1,3-Dichloropropene	9.720	75	65966	20.79 ug/L	92
62) Tetrachloroethene	9.743	166	51694	22.44 ug/L	91
63) Ethyl methacrylate	9.826	69	55971	23.82 ug/L	86
64) 1,1,2-Trichloroethane	9.884	83	38254	24.73 ug/L	79
65) Dibromochloromethane	10.084	129	46656	20.74 ug/L	96
66) 1,3-Dichloropropane	10.166	76	78812	24.08 ug/L	88
67) 1,2-Dibromoethane	10.349	107	42320	22.95 ug/L	85
68) 2-hexanone	10.472	43	130464	129.05 ug/L	91
69) 1-Chlorohexane	10.783	91	71993	24.06 ug/L	88
70) Ethylbenzene	10.842	91	278654	24.88 ug/L	97
71) Chlorobenzene	10.848	112	153060	25.58 ug/L	89
72) 1,1,1,2-Tetrachloroethane	10.895	131	50722	24.58 ug/L	91
73) m,p-Xylene	10.983	91	408644	47.21 ug/L	97
74) o-Xylene	11.424	91	213079	23.31 ug/L	98
75) Styrene	11.471	104	139356	20.61 ug/L	97
76) Bromoform	11.530	173	20440	15.63 ug/L	96
77) Isopropylbenzene	11.729	105	218732	20.81 ug/L	97
80) cis-1,4-Dichloro-2-butene	12.070	53	16618	24.95 ug/L #	79
81) n-Propylbenzene	12.147	91	281979	25.71 ug/L	99
82) Bromobenzene	12.170	156	47743	21.81 ug/L	100
83) 1,1,2,2-Tetrachloroethane	12.205	83	50226	26.85 ug/L	95
84) 1,3,5-Trimethylbenzene	12.329	105	198652	24.38 ug/L	93
85) 2-Chlorotoluene	12.335	91	191533	24.93 ug/L	97
86) trans-1,4-Dichloro-2-B...	12.387	53	14499	22.31 ug/L #	56
87) 1,2,3-Trichloropropane	12.364	110	12572	22.82 ug/L	82
88) Cyclohexanone	12.434	55	7615	164.49 ug/L	82
89) 4-Chlorotoluene	12.499	91	167218	22.70 ug/L	87
90) a-Methyl Styrene	12.593	118	102555	26.33 ug/L	97

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\070116\
Data File : J0977749.D
Acq On : 1 Jul 2016 10:05 am
Operator : darshnap
Sample : ic5359-4 Inst : MSVOA6
Misc : MS34274,vj5359,,,,,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jul 01 10:53:31 2016
Quant Method : C:\msdchem\1\methods\MSJ070116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 21 11:35:53 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
91) tert-Butylbenzene	12.669	91	109482	23.08	ug/L	93
92) 1,2,4-Trimethylbenzene	12.734	105	199147	24.19	ug/L	94
93) Pentachloroethane	12.722	167	31828	25.64	ug/L	90
94) sec-Butylbenzene	12.852	105	250986	25.74	ug/L	98
95) 4-Isopropyltoluene	12.987	119	200997	24.34	ug/L	94
96) 1,3-Dichlorobenzene	13.122	146	99742	25.14	ug/L	94
97) 1,4-Dichlorobenzene	13.210	146	98420	24.34	ug/L	94
98) n-Butylbenzene	13.416	92	115917	24.57	ug/L	91
99) Benzyl Chloride	13.433	126	14833	21.62	ug/L #	91
100) 1,2-Dichlorobenzene	13.633	146	94372	25.52	ug/L	94
101) 1,2-Dibromo-3-Chloropr...	14.362	75	7419	22.77	ug/L #	63
102) Hexachlorobutadiene	14.914	225	30076	18.81	ug/L	94
103) 1,2,4-Trichlorobenzene	14.961	180	56558	19.08	ug/L	99
104) Naphthalene	15.243	128	101826	24.33	ug/L	100
105) 1,2,3-Trichlorobenzene	15.413	180	47575	21.87	ug/L	97
107) Ethanol	4.256	45	9544m	565.43	ug/L	
108) acrolein	4.743	56	37972	108.92	ug/L	80
109) Tert Butyl Alcohol	5.366	59	36270	195.90	ug/L	93
110) tert Amyl alcohol	7.564	59	27732	192.23	ug/L	94
111) Isobutyl alcohol	7.434	42	32999	590.45	ug/L #	69
112) 1,4-Dioxane	8.656	88	8864	536.26	ug/L	95
113) 3,3-Dimethyl-1-butanol	10.419	57	158252	1218.46	ug/L	87

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

7.6.13

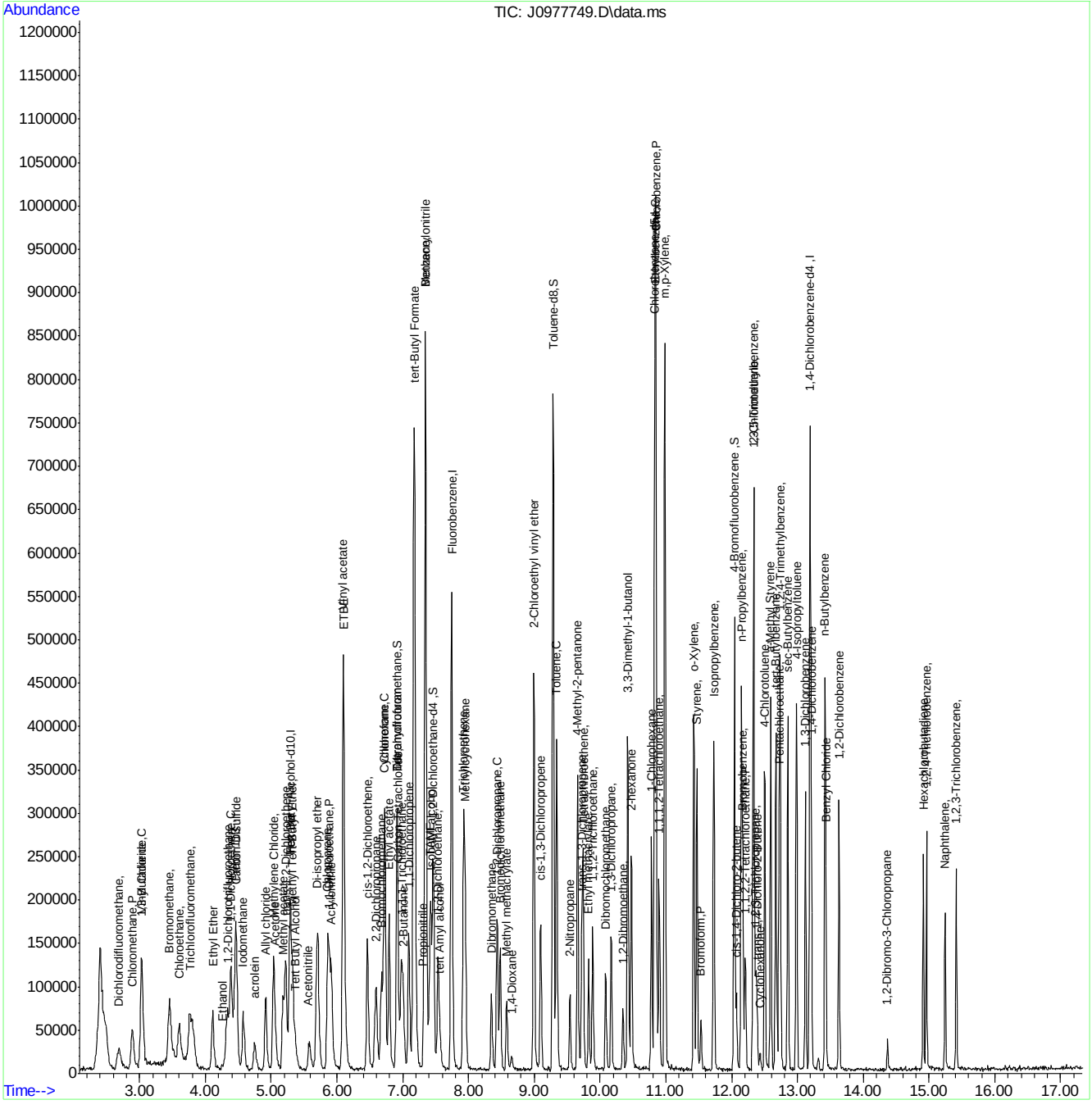
7

SGS ACCUTEST FA34891

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\070116\
Data File : J0977749.D
Acq On : 1 Jul 2016 10:05 am
Operator : darshnap
Sample : ic5359-4 Inst : MSVOA6
Misc : MS34274,vj5359,,,,,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jul 01 10:53:31 2016
Quant Method : C:\msdchem\1\methods\MSJ070116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 21 11:35:53 2016
Response via : Initial Calibration



SGS ACCUTEST FA34891

Manual Integration Approval Summary

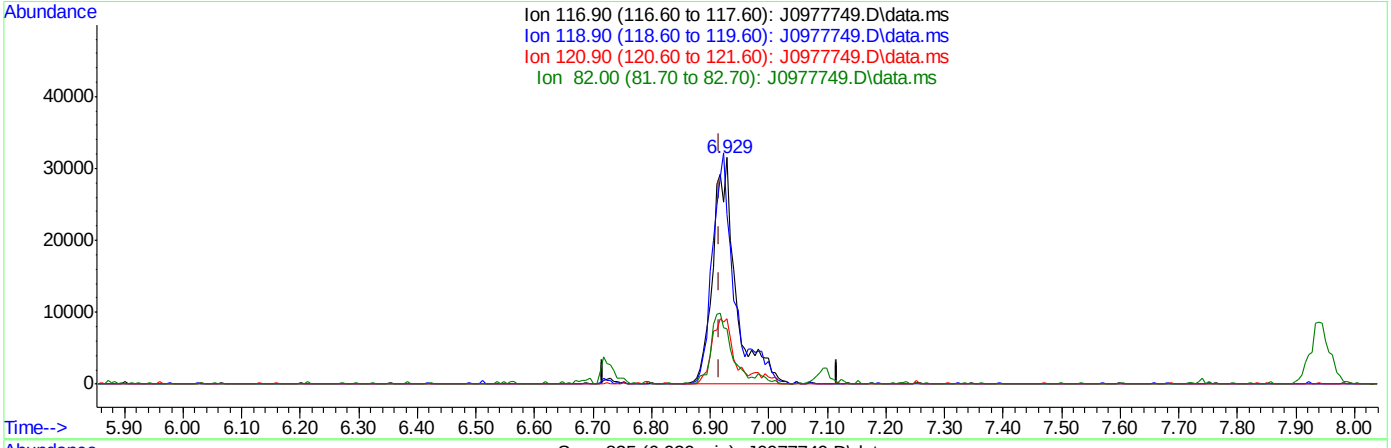
Sample Number:	VJ5359-IC5359	**Method:**	SW846 8260B
Lab FileID:	J0977749.D	**Analyst approved:**	07/05/16 08:03 Darshna Patel
Injection Time:	07/01/16 10:05	**Supervisor approved:**	07/05/16 13:38 Juan Garcia

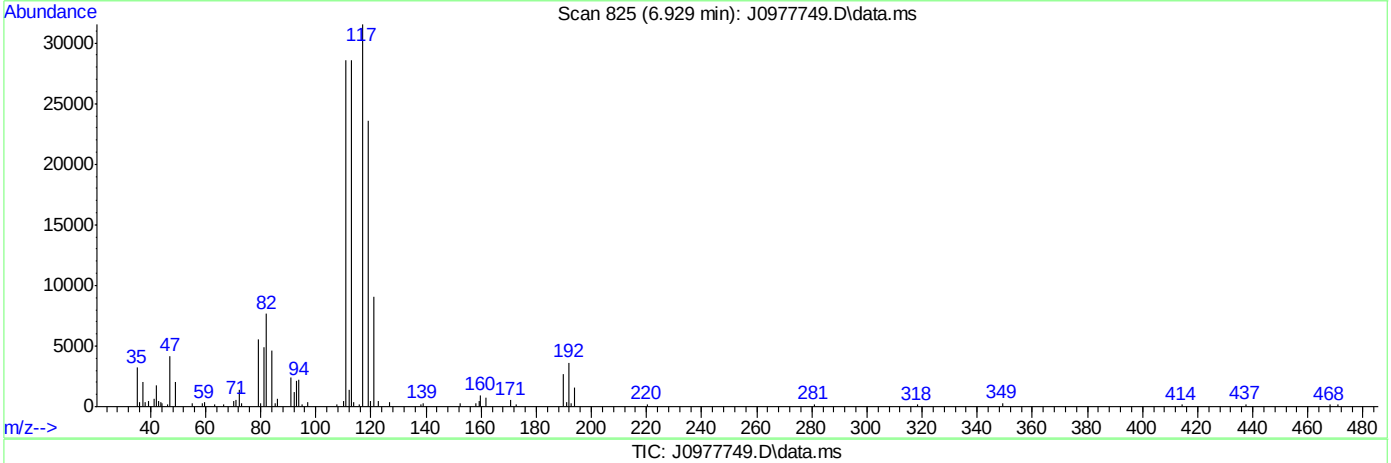
Parameter	CAS	Sig#	R.T. (min.)	Reason
Ethyl Alcohol	64-17-5		4.26	Poor instrument integration
Carbon Tetrachloride	56-23-5		6.93	Overlapping peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\070116\
Data File : J0977749.D
Acq On : 1 Jul 2016 10:05 am
Operator : darshnap
Sample : ic5359-4 Inst : MSVOA6
Misc : MS34274,vj5359,,,,,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jul 01 10:41:55 2016
Quant Method : C:\msdchem\1\methods\MSJ070116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 21 11:35:53 2016
Response via : Initial Calibration





TIC: J0977749.D\data.ms

(37) Carbon Tetrachloride ( )

6.929min (+0.012) 21.59ug/L

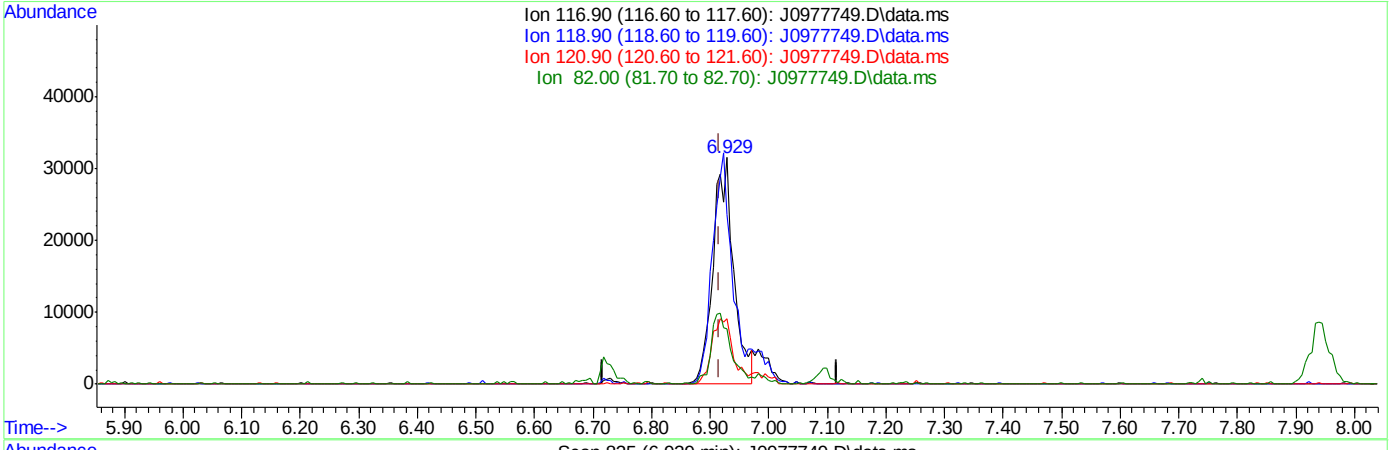
response 86705

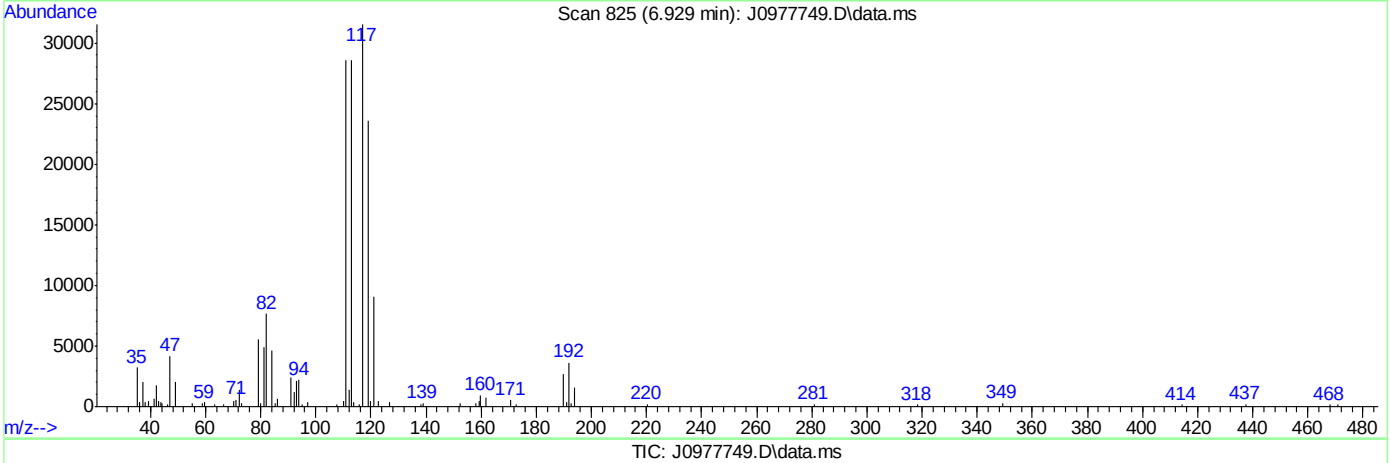
Ion	Exp%	Act%
116.90	100	100
118.90	91.80	74.86
120.90	27.00	28.85
82.00	24.80	24.22

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\070116\
Data File : J0977749.D
Acq On : 1 Jul 2016 10:05 am
Operator : darshnap
Sample : ic5359-4 Inst : MSVOA6
Misc : MS34274,vj5359,,,,,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jul 01 10:41:55 2016
Quant Method : C:\msdchem\1\methods\MSJ070116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 21 11:35:53 2016
Response via : Initial Calibration





TIC: J0977749.D\data.ms

(37) Carbon Tetrachloride ( )

6.929min (+0.012) 19.41ug/L m

response 77916

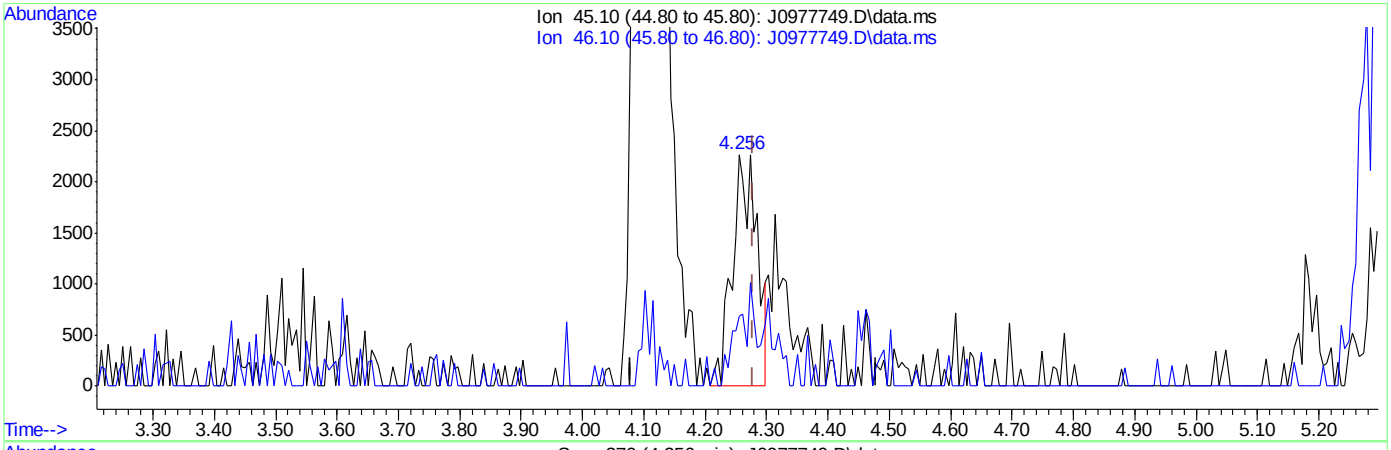
Ion	Exp%	Act%
116.90	100	100
118.90	91.80	74.86
120.90	27.00	28.85
82.00	24.80	24.22

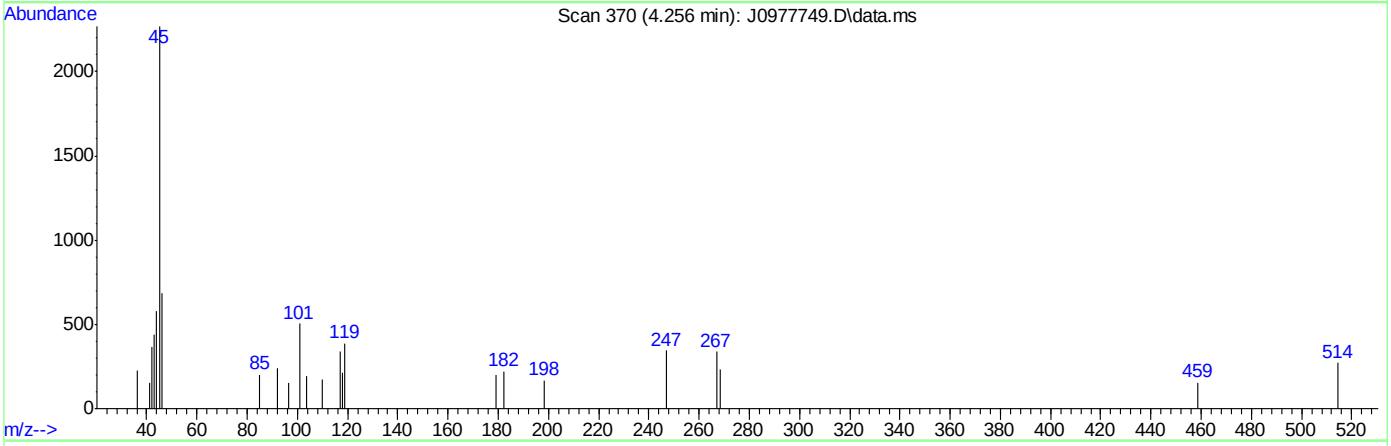
SGS ACCUTEST FA34891

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\070116\
Data File : J0977749.D
Acq On : 1 Jul 2016 10:05 am
Operator : darshnap
Sample : ic5359-4 Inst : MSVOA6
Misc : MS34274,vj5359,,,,,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jul 01 10:41:55 2016
Quant Method : C:\msdchem\1\methods\MSJ070116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 21 11:35:53 2016
Response via : Initial Calibration





TIC: J0977749.D\data.ms

(107) Ethanol

4.256min (-0.023) 372.47ug/L

response 6287

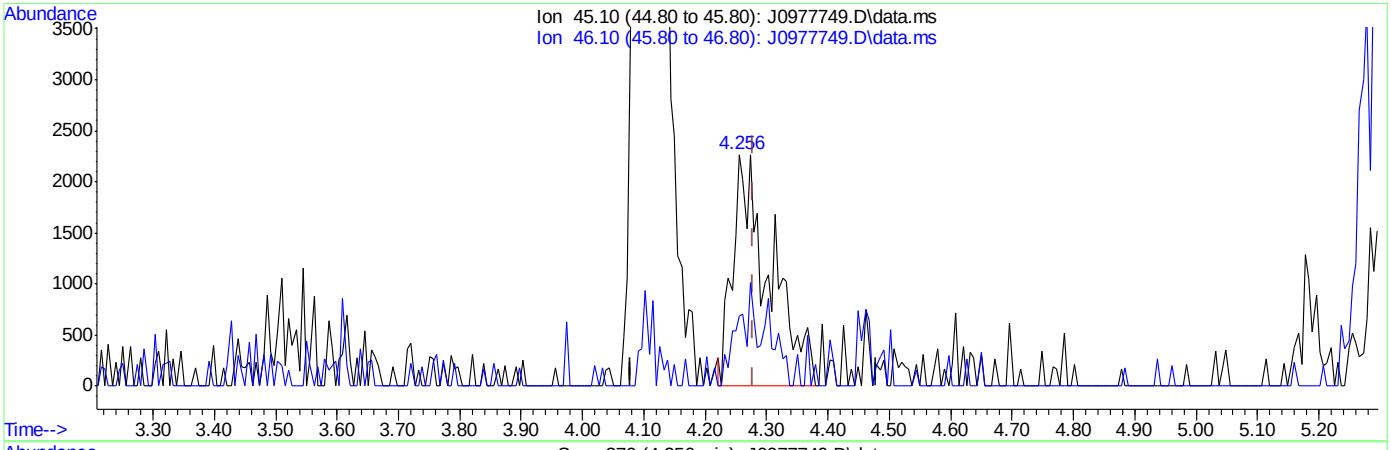
Ion	Exp%	Act%
45.10	100	100
46.10	23.90	30.25
0.00	0.00	0.00
0.00	0.00	0.00

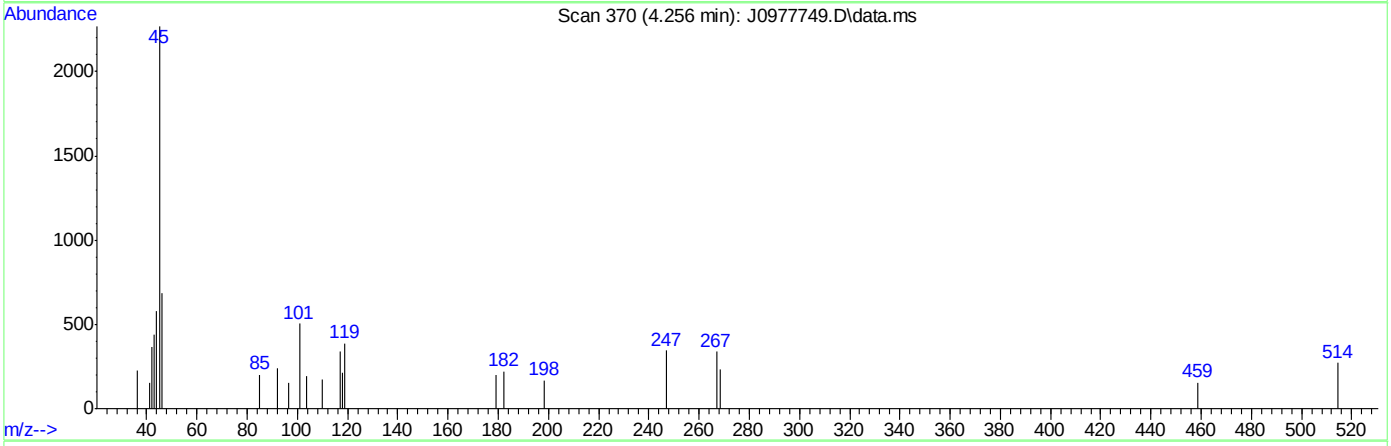
SGS ACCUTEST FA34891

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\070116\
Data File : J0977749.D
Acq On : 1 Jul 2016 10:05 am
Operator : darshnap
Sample : ic5359-4 Inst : MSVOA6
Misc : MS34274,vj5359,,,,,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jul 01 10:41:55 2016
Quant Method : C:\msdchem\1\methods\MSJ070116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 21 11:35:53 2016
Response via : Initial Calibration





TIC: J0977749.D\data.ms

(107) Ethanol

4.256min (-0.023) 565.43ug/L m

response 9544

Ion	Exp%	Act%
45.10	100	100
46.10	23.90	30.25
0.00	0.00	0.00
0.00	0.00	0.00

SGS ACCUTEST FA34891

Manual Integrations APPROVED (compounds with "m" flag)
Juan Garcia
07/05/16 13:38

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\070116\
Data File : J0977750.D
Acq On : 1 Jul 2016 10:28 am
Operator : darshnap
Sample : icc5359-5 Inst : MSVOA6
Misc : MS34274,vj5359,,,,,
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jul 01 10:54:45 2016
Quant Method : C:\msdchem\1\methods\MSJ070116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 21 11:35:53 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.740	96	556525	50.00	ug/L	0.00
56) Chlorobenzene-d5	10.830	117	411386	50.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	13.192	152	209898	50.00	ug/L	0.00
106) Tert Butyl Alcohol-d10	5.278	65	33688	250.00	ug/L	-0.02
System Monitoring Compounds						
36) Dibromofluoromethane	6.911	113	138417	47.26	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 94.52%			
46) 1,2-Dichloroethane-d4	7.463	65	178678	41.80	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 83.60%			
57) Toluene-d8	9.285	98	517692	47.61	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 95.22%			
79) 4-Bromofluorobenzene	12.040	95	204485	50.71	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 101.42%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.692	85	111508	28.33	ug/L	94
3) Chloromethane	2.886	50	163458	41.34	ug/L	98
4) Vinyl Chloride	3.033	62	146382	37.32	ug/L	97
5) 1,3-Butadiene	3.027	54	114164	39.24	ug/L	92
6) Bromomethane	3.456	94	129370	39.73	ug/L	90
7) Chloroethane	3.603	64	93001	36.22	ug/L	93
8) Trichlorofluoromethane	3.762	101	227111m	33.99	ug/L	
9) Ethyl Ether	4.103	59	85521	32.32	ug/L	90
10) 1,2-Dichlorotrifluoroe...	4.332	67	131114	38.61	ug/L	90
11) 1,1-Dichloroethene	4.385	61	170610	34.18	ug/L	93
12) Freon 113	4.449	101	122060	40.73	ug/L	88
13) Carbon Disulfide	4.461	76	387985	41.65	ug/L	100
14) Iodomethane	4.573	142	171817	35.85	ug/L	95
15) Allyl chloride	4.913	41	149464	34.92	ug/L	91
16) Methylene Chloride	5.037	49	169495	37.93	ug/L	95
17) Acetone	5.060	58	36270	195.93	ug/L #	60
18) Methyl acetate	5.178	74	67900	200.82	ug/L	97
19) trans-1,2-Dichloroethene	5.219	61	151107	36.35	ug/L	87
20) Hexane	5.284	56	113666	40.87	ug/L	92
21) Methyl Tert Butyl Ether	5.325	73	284146	31.60	ug/L	94
22) Acetonitrile	5.577	40	46319	334.50	ug/L	87
23) Di-isopropyl ether	5.701	45	392044	36.35	ug/L	91
24) Chloroprene	5.854	53	184671	31.96	ug/L	97
25) 1,1-Dichloroethane	5.883	63	213878	38.20	ug/L	92
26) Acrylonitrile	5.918	53	164595	204.33	ug/L	97
27) ETBE	6.100	59	389506	34.52	ug/L	98
28) Vinyl acetate	6.089	43	1102522	185.77	ug/L	99
29) cis-1,2-Dichloroethene	6.459	96	136798	40.01	ug/L	88
30) 2,2-Dichloropropane	6.594	77	152213	32.16	ug/L	100
31) Bromochloromethane	6.670	128	60145	40.16	ug/L	98
32) Cyclohexane	6.723	56	218227	41.52	ug/L	97
33) Chloroform	6.723	83	223740	35.50	ug/L	90
34) Ethyl acetate	6.794	43	393141	182.14	ug/L	96

SGS ACCUTEST FA34891

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\070116\
Data File : J0977750.D
Acq On : 1 Jul 2016 10:28 am
Operator : darshnap
Sample : icc5359-5 Inst : MSVOA6
Misc : MS34274,vj5359,,,,,
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jul 01 10:54:45 2016
Quant Method : C:\msdchem\1\methods\MSJ070116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 21 11:35:53 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
35) Tetrahydrofuran	6.899	42	23286	37.50 ug/L	83
37) Carbon Tetrachloride	6.923	117	156884m	34.33 ug/L	
38) 1,1,1-Trichloroethane	6.976	97	193267	34.41 ug/L	94
39) 2-Butanone	7.011	43	159924	187.97 ug/L	93
40) 1,1-Dichloropropene	7.087	75	158341	38.71 ug/L	88
41) tert-Butyl Formate	7.170	59	542285	280.32 ug/L #	82
42) Propionitrile	7.317	54	120343	399.72 ug/L	93
43) Methacrylonitrile	7.346	41	497414	363.33 ug/L	97
44) Benzene	7.340	78	498664	44.03 ug/L	86
45) TAME	7.416	73	310451	34.35 ug/L	82
47) 1,2-Dichloroethane	7.534	62	170891	33.22 ug/L	92
48) Trichloroethene	7.922	95	117476	38.00 ug/L	91
49) Methylcyclohexane	7.939	83	207279	38.45 ug/L	92
50) Dibromomethane	8.345	93	71007	40.74 ug/L	85
51) 1,2-Dichloropropane	8.433	63	127295	42.24 ug/L	88
52) Bromodichloromethane	8.480	83	165108	35.64 ug/L	89
53) Methyl methacrylate	8.580	41	68437	32.15 ug/L	83
54) 2-Chloroethyl vinyl ether	8.991	63	333366	206.74 ug/L	91
55) cis-1,3-Dichloropropene	9.097	75	186763	37.37 ug/L	84
58) Toluene	9.338	91	504470	39.80 ug/L	98
59) 2-Nitropropane	9.543	41	91678	125.50 ug/L	97
60) 4-Methyl-2-pentanone	9.655	43	409328	200.78 ug/L	97
61) trans-1,3-Dichloropropene	9.720	75	161165	37.06 ug/L	89
62) Tetrachloroethene	9.743	166	106976	33.88 ug/L	89
63) Ethyl methacrylate	9.825	69	124761	38.73 ug/L	86
64) 1,1,2-Trichloroethane	9.884	83	87501	41.99 ug/L	94
65) Dibromochloromethane	10.084	129	107773	34.95 ug/L	98
66) 1,3-Dichloropropane	10.172	76	165704	37.16 ug/L	86
67) 1,2-Dibromoethane	10.348	107	97138	38.64 ug/L	95
68) 2-hexanone	10.472	43	281181	202.90 ug/L	91
69) 1-Chlorohexane	10.783	91	165168	40.28 ug/L	91
70) Ethylbenzene	10.848	91	617403	40.22 ug/L	98
71) Chlorobenzene	10.848	112	328841	40.71 ug/L	98
72) 1,1,1,2-Tetrachloroethane	10.901	131	110399	39.01 ug/L	95
73) m,p-Xylene	10.983	91	935212	78.81 ug/L	94
74) o-Xylene	11.424	91	486296	39.35 ug/L	99
75) Styrene	11.471	104	371627	40.10 ug/L	95
76) Bromoform	11.529	173	58220	32.48 ug/L	94
77) Isopropylbenzene	11.729	105	578251	40.13 ug/L	95
80) cis-1,4-Dichloro-2-butene	12.070	53	36387	35.24 ug/L #	88
81) n-Propylbenzene	12.146	91	712661	42.58 ug/L	97
82) Bromobenzene	12.170	156	127768	38.70 ug/L	95
83) 1,1,2,2-Tetrachloroethane	12.205	83	136672	47.69 ug/L	99
84) 1,3,5-Trimethylbenzene	12.328	105	520237	41.83 ug/L	98
85) 2-Chlorotoluene	12.334	91	489870	41.78 ug/L	91
86) trans-1,4-Dichloro-2-B...	12.387	53	35076	35.93 ug/L #	84
87) 1,2,3-Trichloropropane	12.370	110	35611	42.28 ug/L	83
88) Cyclohexanone	12.434	55	15988	225.19 ug/L	98
89) 4-Chlorotoluene	12.505	91	471259	43.36 ug/L	97
90) a-Methyl Styrene	12.593	118	286091	48.13 ug/L	96

SGS ACCUTEST FA34891

Quantitation Report (QT Reviewed)

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Data File : J0977750.D
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Operator : darshnap
Sample : icc5359-5 Inst : MSVOA6
Misc : MS34274,vj5359,,,,,
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jul 01 10:54:45 2016
Quant Method : C:\msdchem\1\methods\MSJ070116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 21 11:35:53 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
91) tert-Butylbenzene	12.669	91	303648	41.94	ug/L		96
92) 1,2,4-Trimethylbenzene	12.740	105	548361	43.64	ug/L		99
93) Pentachloroethane	12.722	167	81471	43.00	ug/L		88
94) sec-Butylbenzene	12.851	105	667030	44.83	ug/L		99
95) 4-Isopropyltoluene	12.986	119	541634	42.98	ug/L		93
96) 1,3-Dichlorobenzene	13.122	146	263298	44.26	ug/L		93
97) 1,4-Dichlorobenzene	13.204	146	278854	46.32	ug/L		97
98) n-Butylbenzene	13.421	92	327875	45.55	ug/L		91
99) Benzyl Chloride	13.433	126	41534	39.67	ug/L		96
100) 1,2-Dichlorobenzene	13.633	146	243113	42.98	ug/L		97
101) 1,2-Dibromo-3-Chloropr...	14.367	75	18475	37.15	ug/L	#	73
102) Hexachlorobutadiene	14.914	225	72861	29.85	ug/L		97
103) 1,2,4-Trichlorobenzene	14.961	180	160514	35.47	ug/L		99
104) Naphthalene	15.243	128	286813	42.25	ug/L		97
105) 1,2,3-Trichlorobenzene	15.413	180	133439	39.02	ug/L		95
107) Ethanol	4.267	45	16852m	958.37	ug/L		
108) acrolein	4.743	56	84562	236.92	ug/L		84
109) Tert Butyl Alcohol	5.366	59	69709	362.52	ug/L		91
110) tert Amyl alcohol	7.557	59	54313m	361.39	ug/L		
111) Isobutyl alcohol	7.440	42	50347	868.82	ug/L	#	81
112) 1,4-Dioxane	8.656	88	16998	996.47	ug/L	#	52
113) 3,3-Dimethyl-1-butanol	10.419	57	360955	2550.01	ug/L		94

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

7.6.14

7

SGS ACCUTEST FA34891

Quantitation Report (QT Reviewed)

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Sample : icc5359-5 Inst : MSVOA6
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ALS Vial : 5 Sample Multiplier: 1

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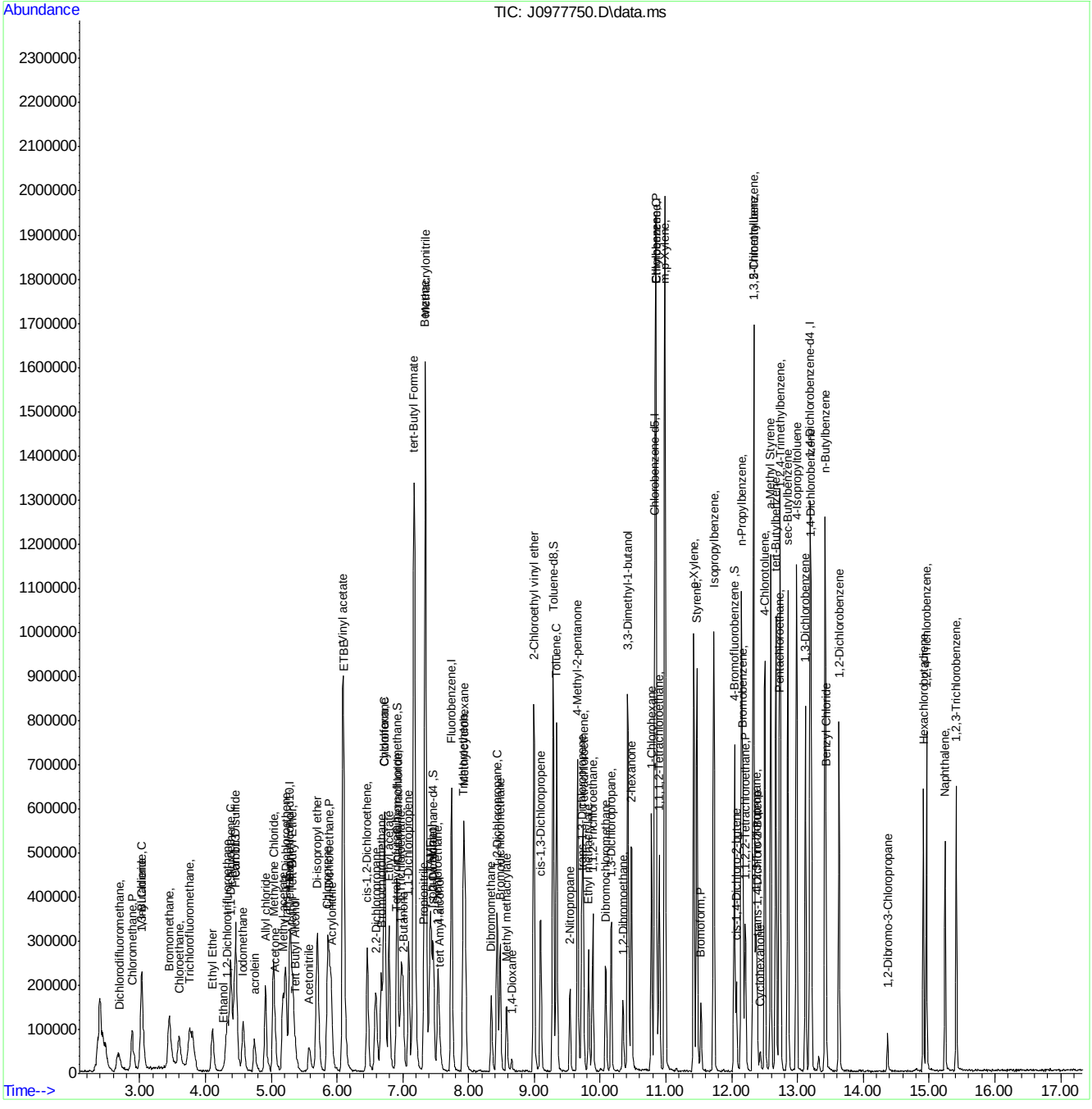
Quant Method : C:\msdchem\1\methods\MSJ070116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 21 11:35:53 2016
Response via : Initial Calibration



SGS ACCUTEST FA34891

Manual Integration Approval Summary

Sample Number:	VJ5359-ICC5359	**Method:**	SW846 8260B
Lab FileID:	J0977750.D	**Analyst approved:**	07/05/16 08:03 Darshna Patel
Injection Time:	07/01/16 10:28	**Supervisor approved:**	07/05/16 13:38 Juan Garcia

Parameter	CAS	Sig#	R.T. (min.)	Reason
Trichlorofluoromethane	75-69-4		3.76	Overlapping peak
Ethyl Alcohol	64-17-5		4.27	Poor instrument integration
Carbon Tetrachloride	56-23-5		6.92	Overlapping peak
Tert-Amyl Alcohol	75-85-4		7.56	Poor instrument integration

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\070116\
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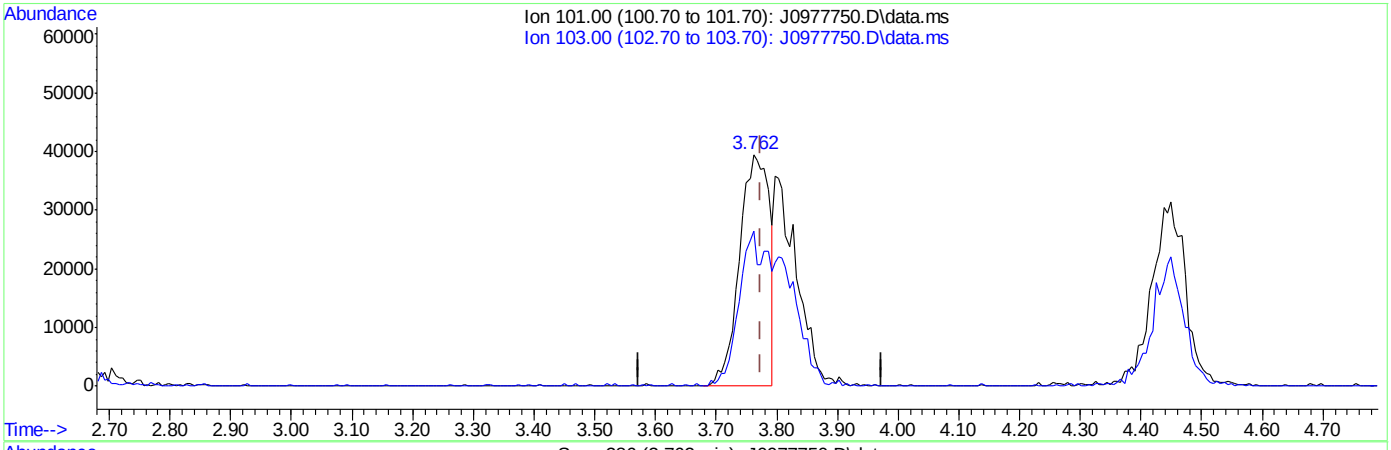
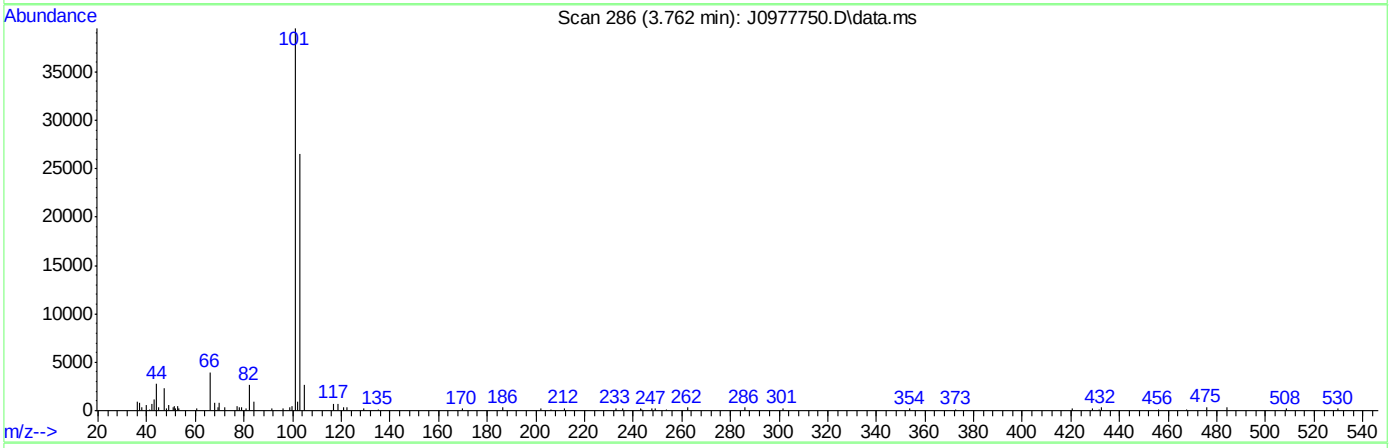
Quant Method : C:\msdchem\1\methods\MSJ070116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 21 11:35:53 2016
Response via : Initial Calibration





TIC: J0977750.D\data.ms

(8) Trichlorofluoromethane ( )

3.762min (-0.012) 19.56ug/L

response 133029

Ion	Exp%	Act%
101.00	100	100
103.00	54.90	67.04
0.00	0.00	0.00
0.00	0.00	0.00

SGS ACCUTEST FA34891

Quantitation Report (Qedit)

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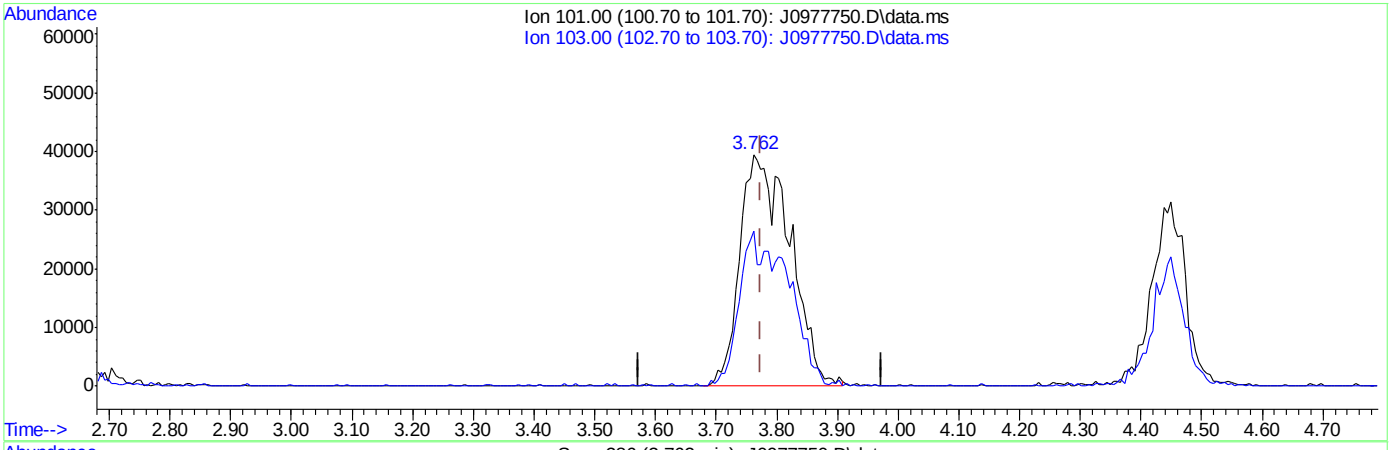
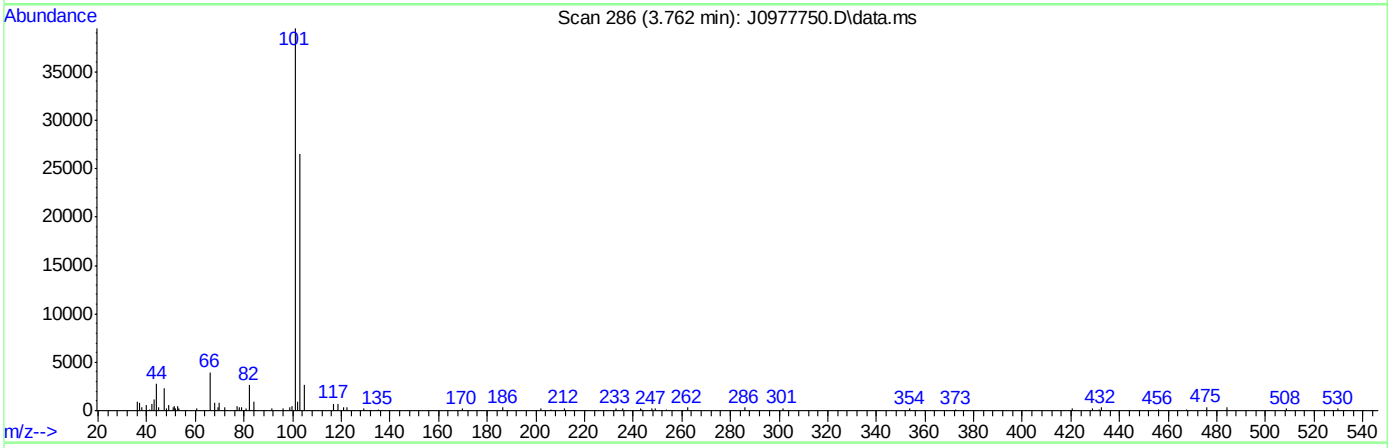
Quant Method : C:\msdchem\1\methods\MSJ070116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 21 11:35:53 2016
Response via : Initial Calibration





TIC: J0977750.D\data.ms

(8) Trichlorofluoromethane ( )

3.762min (-0.012) 33.99ug/L m

response 227111

Ion	Exp%	Act%
101.00	100	100
103.00	54.90	67.04
0.00	0.00	0.00
0.00	0.00	0.00

SGS ACCUTEST FA34891

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\070116\
Data File : J0977750.D
Acq On : 1 Jul 2016 10:28 am
Operator : darshnap
Sample : icc5359-5 Inst : MSVOA6
Misc : MS34274,vj5359,,,,,
ALS Vial : 5 Sample Multiplier: 1

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Quant Title : SW-846 Method 5030B/8260B & EPA 624
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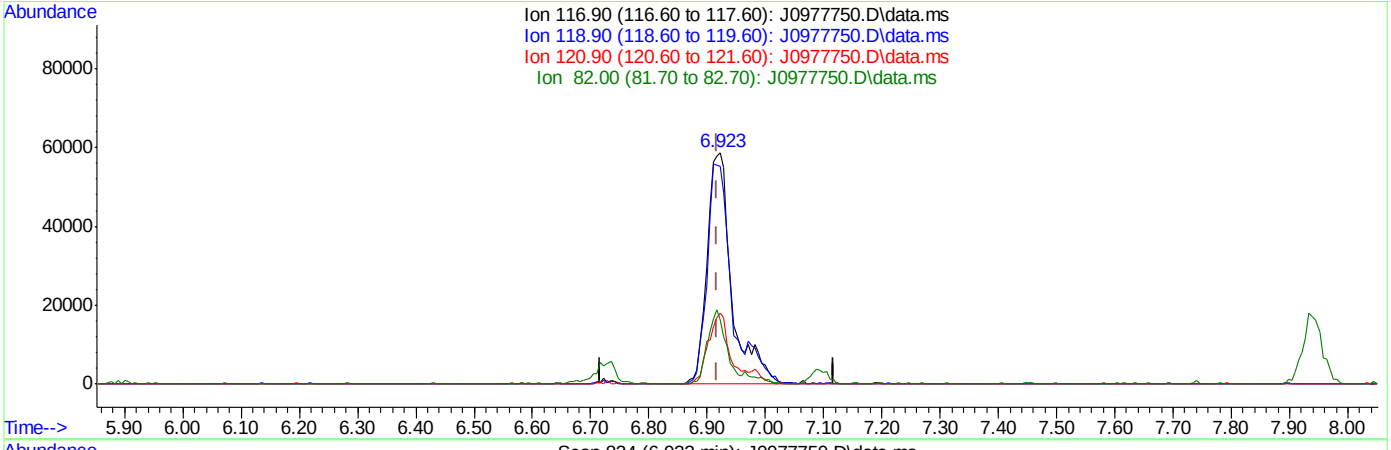

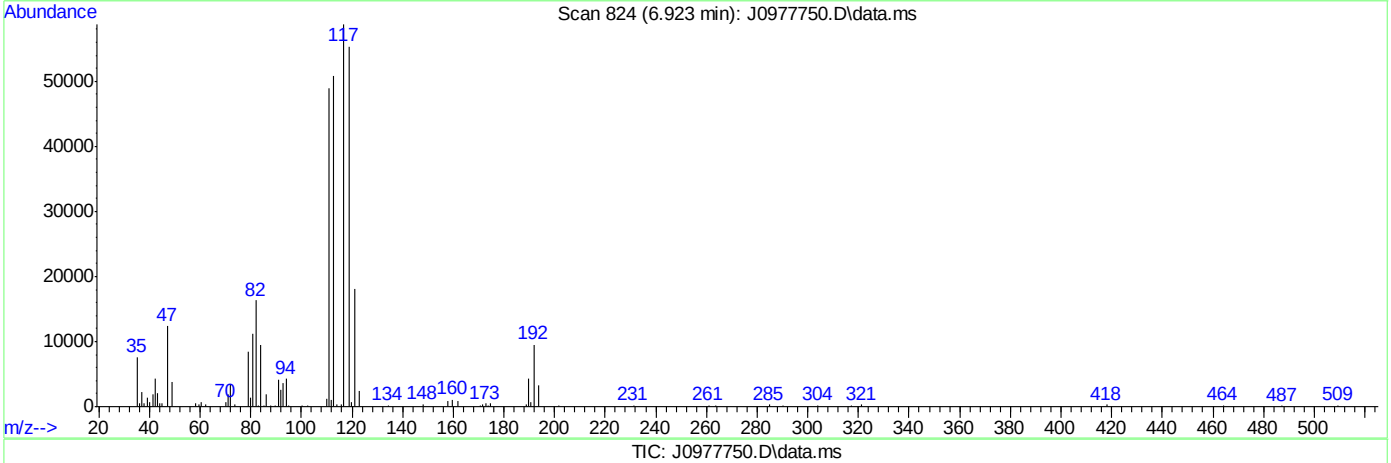

TIC: J0977750.D\data.ms

(37) Carbon Tetrachloride ( )

6.923min (+0.006) 38.56ug/L

response 176205

Ion	Exp%	Act%
116.90	100	100
118.90	91.80	94.25
120.90	27.00	30.89
82.00	24.80	27.85

SGS ACCUTEST FA34891

Quantitation Report (Qedit)

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Data File : J0977750.D
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Sample : icc5359-5 Inst : MSVOA6
Misc : MS34274,vj5359,,,,,
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Quant Method : C:\msdchem\1\methods\MSJ070116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
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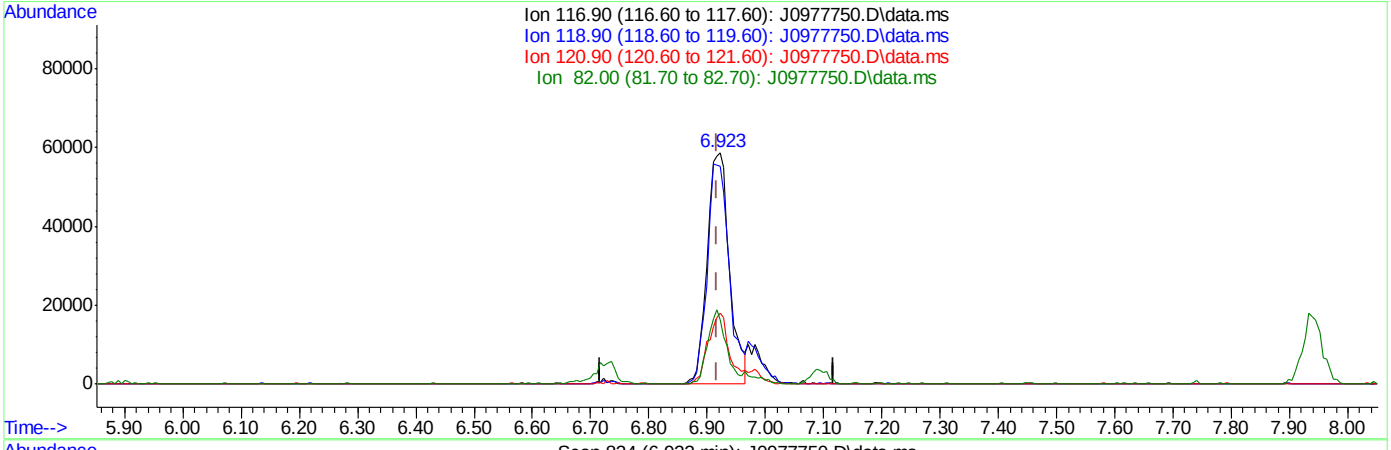

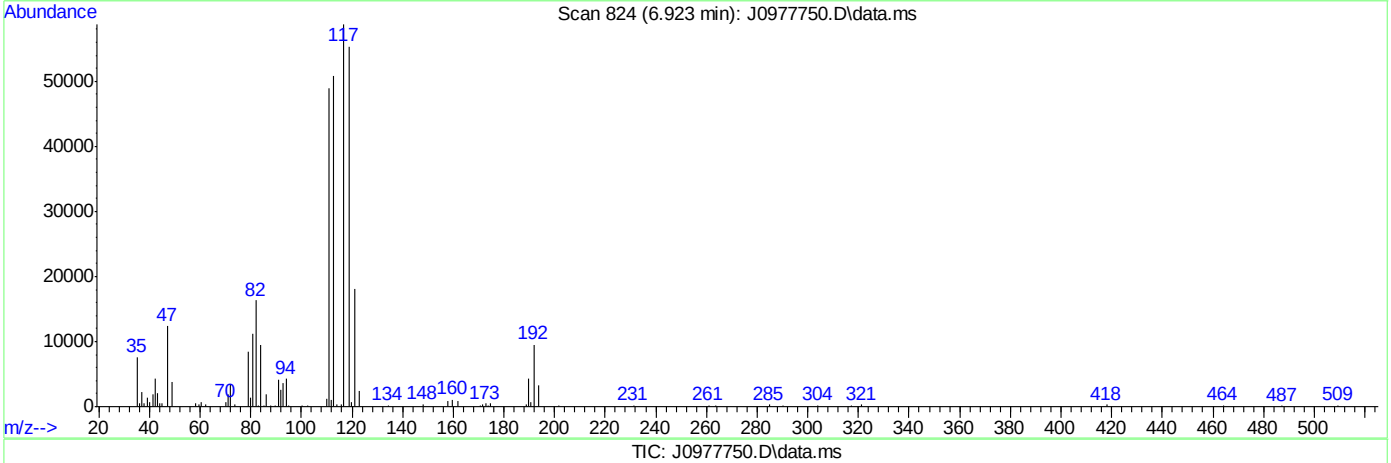

TIC: J0977750.D\data.ms

(37) Carbon Tetrachloride ( )

6.923min (+0.006) 34.33ug/L m

response 156884

Ion	Exp%	Act%
116.90	100	100
118.90	91.80	94.25
120.90	27.00	30.89
82.00	24.80	27.85

SGS ACCUTEST FA34891

Quantitation Report (Qedit)

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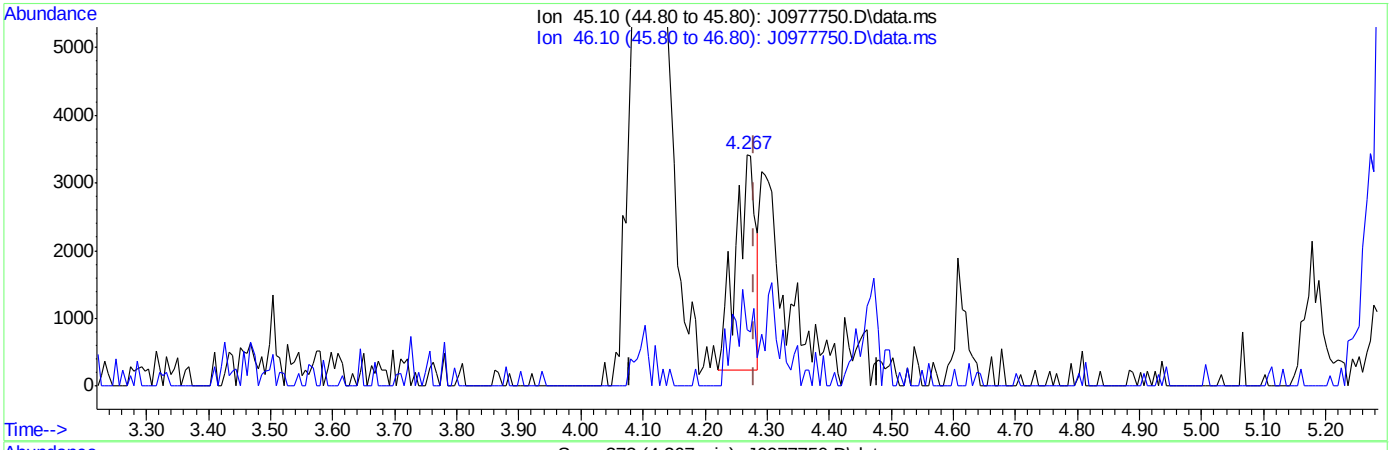

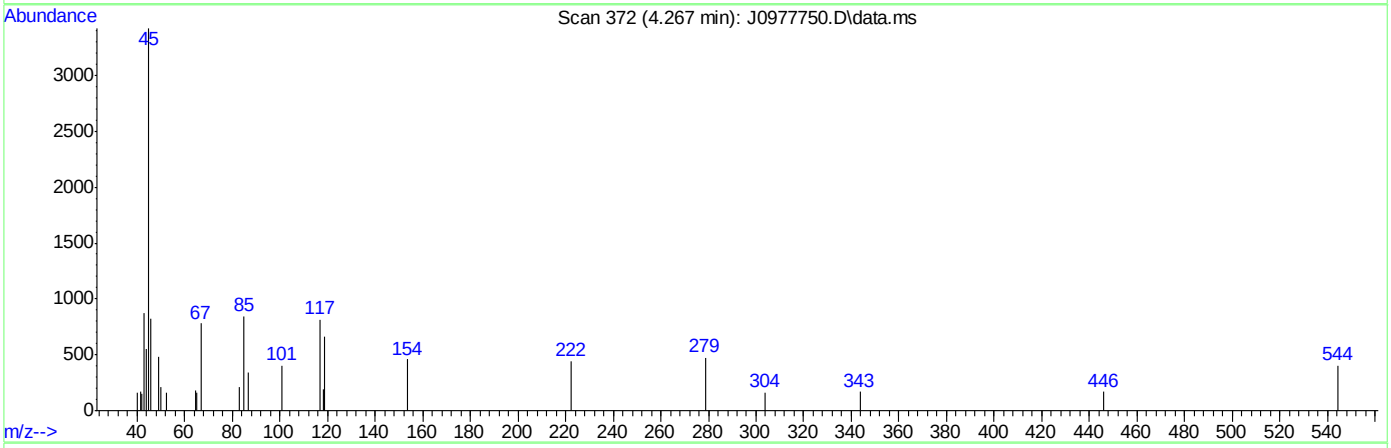

TIC: J0977750.D\data.ms

(107) Ethanol

4.267min (-0.012) 409.46ug/L

response 7200

Ion	Exp%	Act%
45.10	100	100
46.10	23.90	25.95
0.00	0.00	0.00
0.00	0.00	0.00

SGS ACCUTEST FA34891

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\070116\
Data File : J0977750.D
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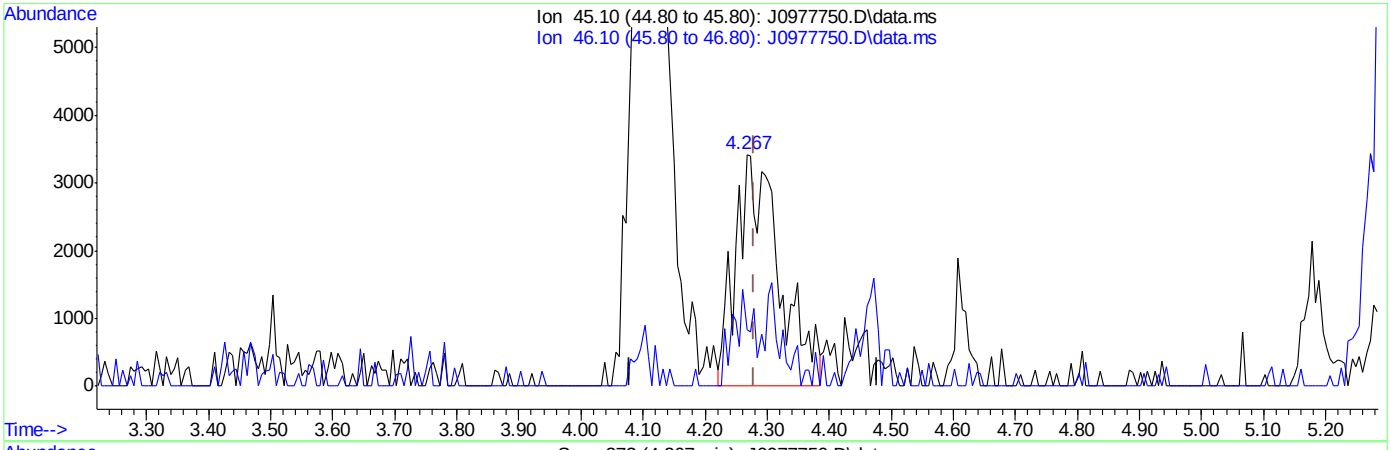

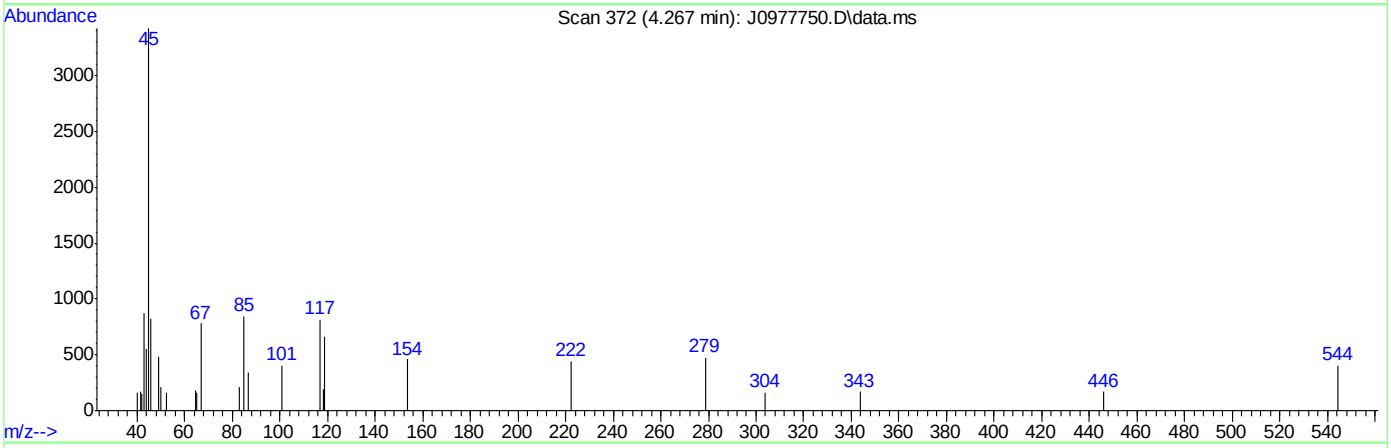

TIC: J0977750.D\data.ms

(107) Ethanol

4.267min (-0.012) 958.37ug/L m

response 16852

Ion	Exp%	Act%
45.10	100	100
46.10	23.90	24.17
0.00	0.00	0.00
0.00	0.00	0.00

SGS ACCUTEST FA34891

Quantitation Report (Qedit)

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Data File : J0977750.D
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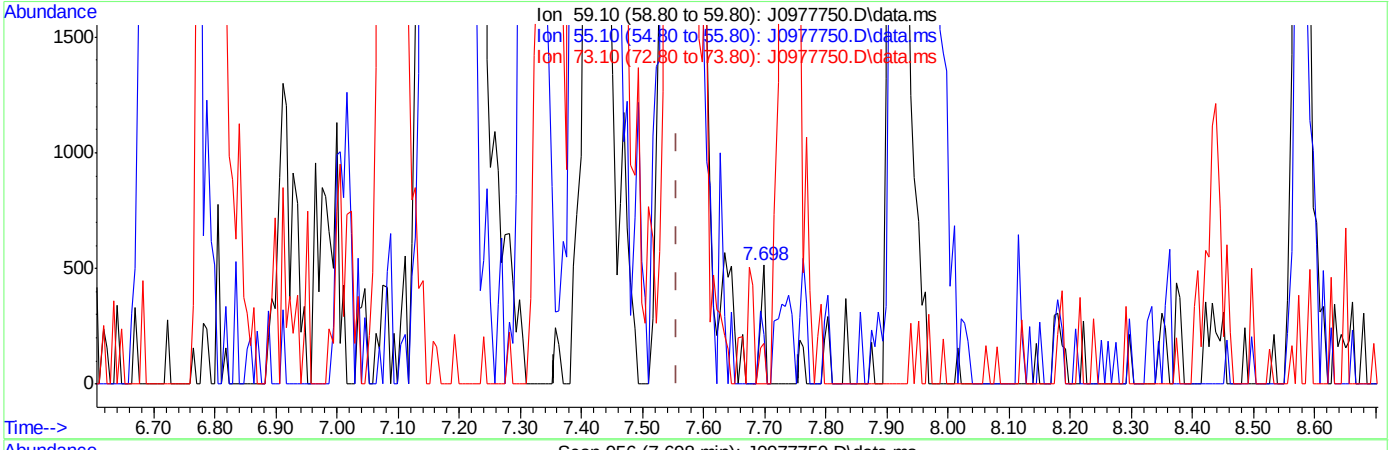

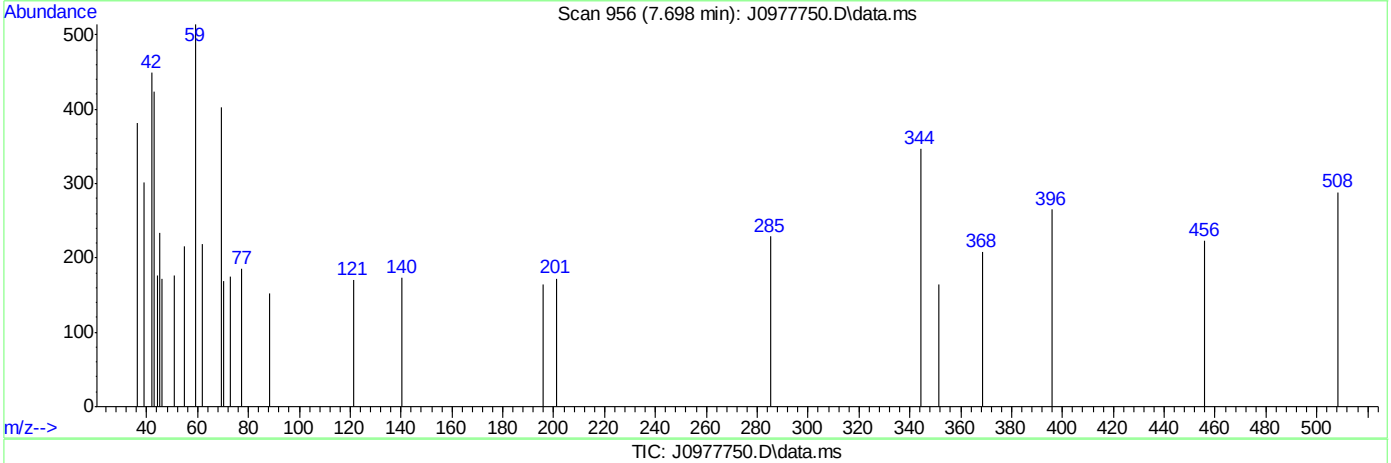

TIC: J0977750.D\data.ms

(110) tert Amyl alcohol

7.698min (+0.141) 1.84ug/L

response 276

Ion	Exp%	Act%
59.10	100	100
55.10	44.50	42.02
73.10	52.20	34.05
0.00	0.00	0.00

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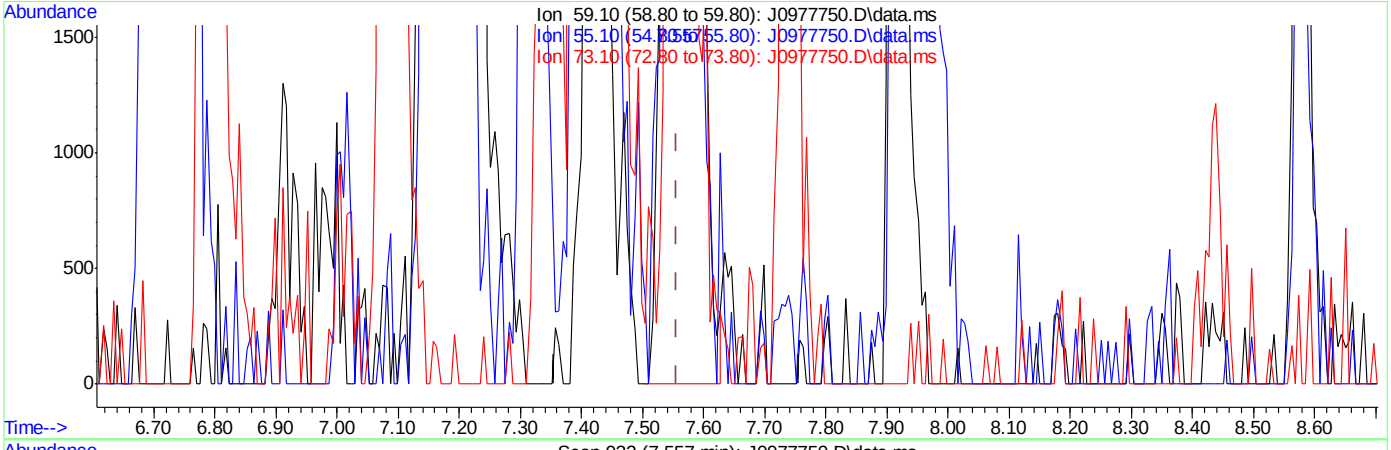
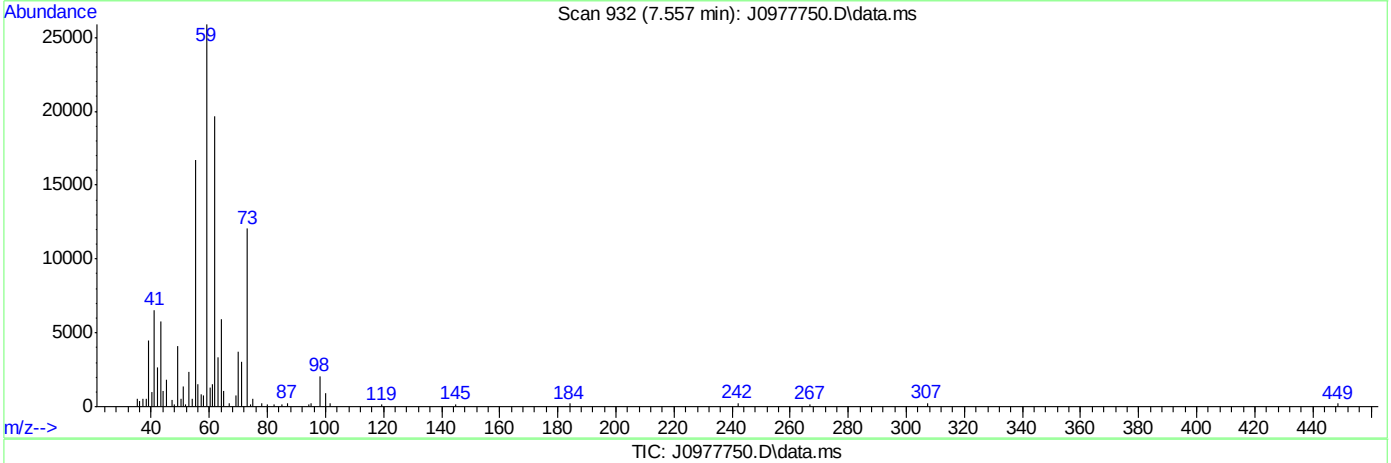
Response via : Initial Calibration





TIC: J0977750.D\data.ms

(110) tert Amyl alcohol

7.557min (+0.000) 361.39ug/L m

response 54313

Ion	Exp%	Act%
59.10	100	100
55.10	44.50	64.51#
73.10	52.20	46.50
0.00	0.00	0.00

SGS ACCUTEST FA34891

Manual Integrations APPROVED (compounds with "m" flag)
Juan Garcia
07/05/16 13:38

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\070116\
Data File : J0977751.D
Acq On : 1 Jul 2016 10:51 am
Operator : darshnap
Sample : ic5359-6 Inst : MSVOA6
Misc : MS34274,vj5359,,,,,
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jul 01 11:16:36 2016
Quant Method : C:\msdchem\1\methods\MSJ070116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 21 11:35:53 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.740	96	459387	50.00	ug/L	0.00
56) Chlorobenzene-d5	10.830	117	638982	50.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	13.192	152	307693	50.00	ug/L	0.00
106) Tert Butyl Alcohol-d10	5.295	65	32479	250.00	ug/L	0.00
System Monitoring Compounds						
36) Dibromofluoromethane	6.911	113	121375	50.20	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 100.40%			
46) 1,2-Dichloroethane-d4	7.463	65	157993	44.78	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 89.56%			
57) Toluene-d8	9.285	98	661087	39.14	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 78.28%#			
79) 4-Bromofluorobenzene	12.041	95	308902	52.26	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 104.52%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.675	85	163724	52.34	ug/L	98
3) Chloromethane	2.904	50	190872	59.80	ug/L	99
4) Vinyl Chloride	3.033	62	225160	73.86	ug/L	87
5) 1,3-Butadiene	3.027	54	168470	76.27	ug/L	83
6) Bromomethane	3.450	94	222090	93.71	ug/L	95
7) Chloroethane	3.603	64	158001	99.74	ug/L	97
8) Trichlorofluoromethane	3.803	101	442060	85.70	ug/L	99
9) Ethyl Ether	4.109	59	168101	76.96	ug/L	93
10) 1,2-Dichlorotrifluoroe...	4.344	67	214710	76.59	ug/L	94
11) 1,1-Dichloroethene	4.391	61	277776	71.32	ug/L	94
12) Freon 113	4.449	101	172323	72.73	ug/L	90
13) Carbon Disulfide	4.455	76	593209	77.14	ug/L	93
14) Iodomethane	4.573	142	266040	67.24	ug/L	97
15) Allyl chloride	4.914	41	202362	57.27	ug/L	91
16) Methylene Chloride	5.031	49	242159	65.64	ug/L	91
17) Acetone	5.060	58	54139	354.29	ug/L #	70
18) Methyl acetate	5.178	74	104101	372.99	ug/L #	84
19) trans-1,2-Dichloroethene	5.219	61	223416	65.11	ug/L	89
20) Hexane	5.284	56	169297	73.75	ug/L #	86
21) Methyl Tert Butyl Ether	5.319	73	455065	61.31	ug/L	92
22) Acetonitrile	5.577	40	64110	565.34	ug/L #	79
23) Di-isopropyl ether	5.701	45	574700	64.54	ug/L	93
24) Chloroprene	5.859	53	265716	57.37	ug/L	94
25) 1,1-Dichloroethane	5.889	63	317463	68.70	ug/L	97
26) Acrylonitrile	5.912	53	230030	350.39	ug/L	99
27) ETBE	6.106	59	605557	65.02	ug/L	98
28) Vinyl acetate	6.095	43	1578828	322.28	ug/L	100
29) cis-1,2-Dichloroethene	6.459	96	196708	69.70	ug/L	86
30) 2,2-Dichloropropane	6.594	77	236056	60.43	ug/L	99
31) Bromochloromethane	6.670	128	84808	68.60	ug/L	95
32) Cyclohexane	6.717	56	310731	71.62	ug/L	97
33) Chloroform	6.723	83	354490	70.10	ug/L	99
34) Ethyl acetate	6.794	43	566056	317.70	ug/L	99

SGS ACCUTEST FA34891

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\070116\
Data File : J0977751.D
Acq On : 1 Jul 2016 10:51 am
Operator : darshnap
Sample : ic5359-6 Inst : MSVOA6
Misc : MS34274,vj5359,,,,,
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jul 01 11:16:36 2016
Quant Method : C:\msdchem\1\methods\MSJ070116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 21 11:35:53 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
35) Tetrahydrofuran	6.899	42	30159	58.83 ug/L	89
37) Carbon Tetrachloride	6.923	117	245580	65.10 ug/L	93
38) 1,1,1-Trichloroethane	6.982	97	296766	64.01 ug/L	97
39) 2-Butanone	7.005	43	234967	334.56 ug/L	92
40) 1,1-Dichloropropene	7.093	75	235183	69.65 ug/L	92
41) tert-Butyl Formate	7.176	59	925895	567.39 ug/L	93
42) Propionitrile	7.317	54	176613	710.66 ug/L	100
43) Methacrylonitrile	7.346	41	703429	622.46 ug/L	94
44) Benzene	7.346	78	719753	78.03 ug/L	91
45) TAME	7.417	73	477553	64.01 ug/L	87
47) 1,2-Dichloroethane	7.534	62	261539	63.23 ug/L	95
48) Trichloroethene	7.922	95	181468	71.11 ug/L	89
49) Methylcyclohexane	7.939	83	317262	71.30 ug/L	87
50) Dibromomethane	8.345	93	100814	68.74 ug/L	90
51) 1,2-Dichloropropane	8.433	63	186801	75.09 ug/L	90
52) Bromodichloromethane	8.480	83	251368	65.74 ug/L	94
53) Methyl methacrylate	8.580	41	95744	54.61 ug/L	83
54) 2-Chloroethyl vinyl ether	8.991	63	505057	379.45 ug/L	93
55) cis-1,3-Dichloropropene	9.091	75	278338	67.48 ug/L	86
58) Toluene	9.338	91	1133117	58.75 ug/L	99
59) 2-Nitropropane	9.543	41	231486	204.01 ug/L	96
60) 4-Methyl-2-pentanone	9.661	43	1122927	354.62 ug/L	94
61) trans-1,3-Dichloropropene	9.720	75	426659	63.17 ug/L	89
62) Tetrachloroethene	9.743	166	297277	60.62 ug/L	93
63) Ethyl methacrylate	9.825	69	361623	72.27 ug/L	84
64) 1,1,2-Trichloroethane	9.884	83	240367	77.00 ug/L	89
65) Dibromochloromethane	10.084	129	286750	59.88 ug/L	96
66) 1,3-Dichloropropane	10.166	76	489257	71.81 ug/L	84
67) 1,2-Dibromoethane	10.343	107	274797	71.19 ug/L	99
68) 2-hexanone	10.472	43	760852	353.47 ug/L	84
69) 1-Chlorohexane	10.783	91	476309	74.78 ug/L	86
70) Ethylbenzene	10.848	91	1581460	66.33 ug/L	92
71) Chlorobenzene	10.848	112	878292	72.30 ug/L	95
72) 1,1,1,2-Tetrachloroethane	10.901	131	292912	66.59 ug/L	90
73) m,p-Xylene	10.983	91	2353421	127.69 ug/L	88
74) o-Xylene	11.424	91	1283069	68.59 ug/L	94
75) Styrene	11.471	104	998573	69.38 ug/L	95
76) Bromoform	11.529	173	153537	55.15 ug/L	97
77) Isopropylbenzene	11.729	105	1517425	67.80 ug/L	92
80) cis-1,4-Dichloro-2-butene	12.070	53	91924	58.63 ug/L	90
81) n-Propylbenzene	12.146	91	1828363	74.52 ug/L	97
82) Bromobenzene	12.170	156	332691	70.28 ug/L	95
83) 1,1,2,2-Tetrachloroethane	12.205	83	353323	83.51 ug/L	91
84) 1,3,5-Trimethylbenzene	12.328	105	1337005	73.33 ug/L	96
85) 2-Chlorotoluene	12.334	91	1243785	72.36 ug/L	94
86) trans-1,4-Dichloro-2-B...	12.387	53	86647	62.47 ug/L	92
87) 1,2,3-Trichloropropane	12.370	110	90914	73.45 ug/L	95
88) Cyclohexanone	12.428	55	43849	415.00 ug/L	89
89) 4-Chlorotoluene	12.505	91	1196838	80.02 ug/L	94
90) a-Methyl Styrene	12.593	118	703353	80.72 ug/L	95

SGS ACCUTEST FA34891

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\070116\
Data File : J0977751.D
Acq On : 1 Jul 2016 10:51 am
Operator : darshnap
Sample : ic5359-6 Inst : MSVOA6
Misc : MS34274,vj5359,,,,,
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jul 01 11:16:36 2016
Quant Method : C:\msdchem\1\methods\MSJ070116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 21 11:35:53 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
91) tert-Butylbenzene	12.669	91	753524	71.00 ug/L	95
92) 1,2,4-Trimethylbenzene	12.740	105	1326465	72.02 ug/L	94
93) Pentachloroethane	12.722	167	200349	72.14 ug/L	91
94) sec-Butylbenzene	12.851	105	1649803	75.64 ug/L	97
95) 4-Isopropyltoluene	12.987	119	1363890	73.84 ug/L	91
96) 1,3-Dichlorobenzene	13.122	146	669131	79.34 ug/L	98
97) 1,4-Dichlorobenzene	13.204	146	688232	81.24 ug/L	95
98) n-Butylbenzene	13.415	92	835615	79.19 ug/L	86
99) Benzyl Chloride	13.433	126	118793	77.40 ug/L #	69
100) 1,2-Dichlorobenzene	13.633	146	635438	76.32 ug/L	99
101) 1,2-Dibromo-3-Chloropr...	14.367	75	37911	52.01 ug/L	87
102) Hexachlorobutadiene	14.914	225	163187	45.61 ug/L	88
103) 1,2,4-Trichlorobenzene	14.961	180	337776	50.92 ug/L	99
104) Naphthalene	15.243	128	650625	61.48 ug/L	95
105) 1,2,3-Trichlorobenzene	15.413	180	288692	55.97 ug/L	96
107) Ethanol	4.255	45	23686m	1397.17 ug/L	
108) acrolein	4.743	56	127045	376.41 ug/L	99
109) Tert Butyl Alcohol	5.366	59	111054	601.64 ug/L	88
110) tert Amyl alcohol	7.563	59	91959m	634.65 ug/L	
111) Isobutyl alcohol	7.440	42	81383	1471.68 ug/L #	86
112) 1,4-Dioxane	8.656	88	25941	1596.99 ug/L	84
113) 3,3-Dimethyl-1-butanol	10.419	57	1082032	6924.41 ug/L	91

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

7.6.15

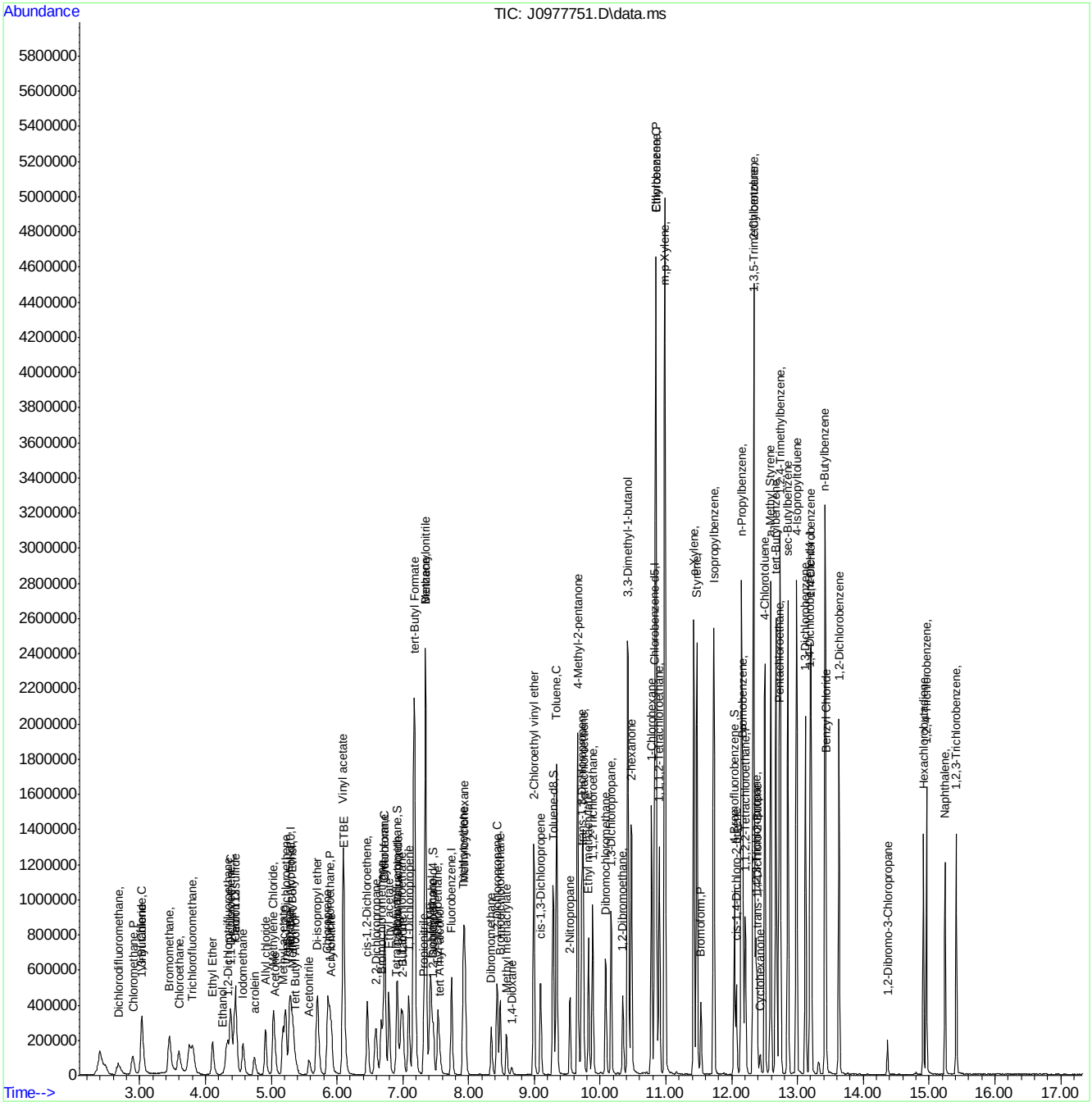
7

SGS ACCUTEST FA34891

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\070116\
Data File : J0977751.D
Acq On : 1 Jul 2016 10:51 am
Operator : darshnap
Sample : ic5359-6 Inst : MSVOA6
Misc : MS34274,vj5359,,,,,
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jul 01 11:16:36 2016
Quant Method : C:\msdchem\1\methods\MSJ070116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 21 11:35:53 2016
Response via : Initial Calibration



SGS ACCUTEST FA34891

Manual Integration Approval Summary

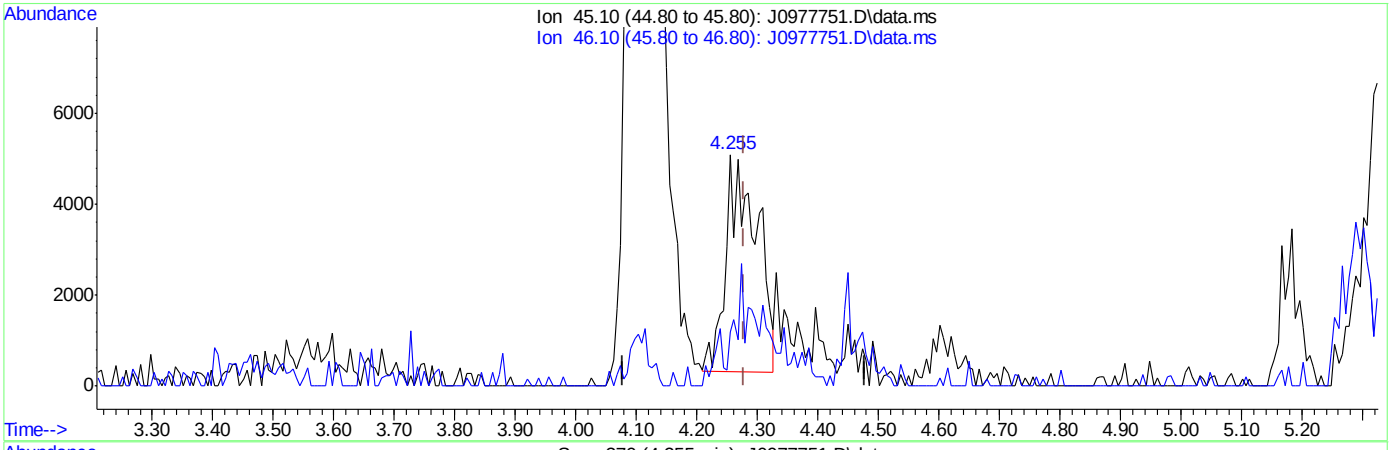
Sample Number:	VJ5359-IC5359	**Method:**	SW846 8260B
Lab FileID:	J0977751.D	**Analyst approved:**	07/05/16 08:03 Darshna Patel
Injection Time:	07/01/16 10:51	**Supervisor approved:**	07/05/16 13:38 Juan Garcia

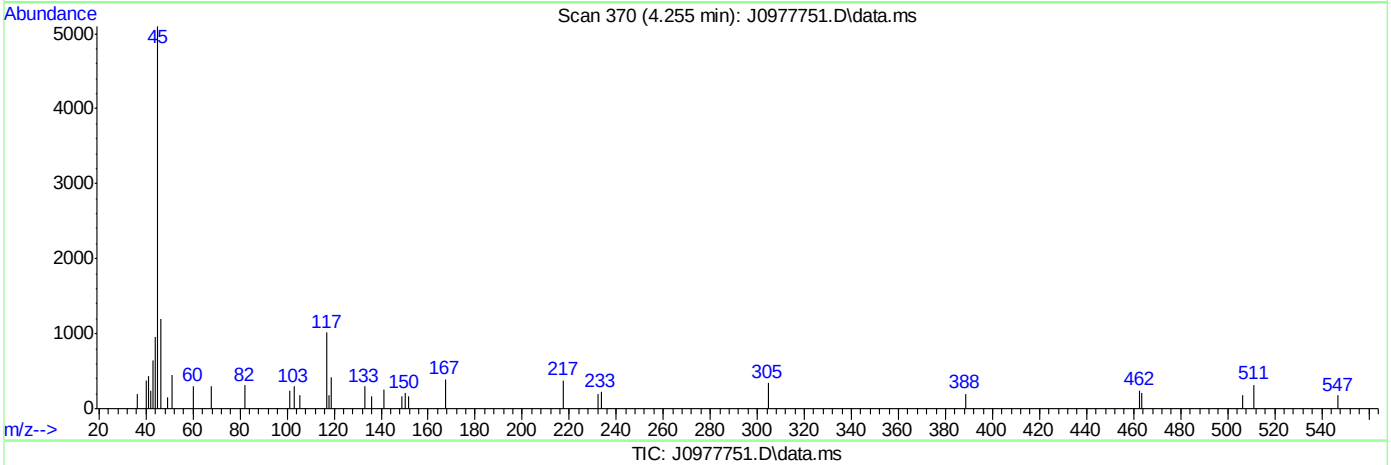
Parameter	CAS	Sig#	R.T. (min.)	Reason
Ethyl Alcohol	64-17-5		4.26	Poor instrument integration
Tert-Amyl Alcohol	75-85-4		7.56	Poor instrument integration

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\070116\
Data File : J0977751.D
Acq On : 1 Jul 2016 10:51 am
Operator : darshnap
Sample : ic5359-6 Inst : MSVOA6
Misc : MS34274,vj5359,,,,,
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jul 01 11:16:05 2016
Quant Method : C:\msdchem\1\methods\MSJ070116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 21 11:35:53 2016
Response via : Initial Calibration





TIC: J0977751.D\data.ms

(107) Ethanol

4.255min (-0.023) 996.70ug/L

response 16897

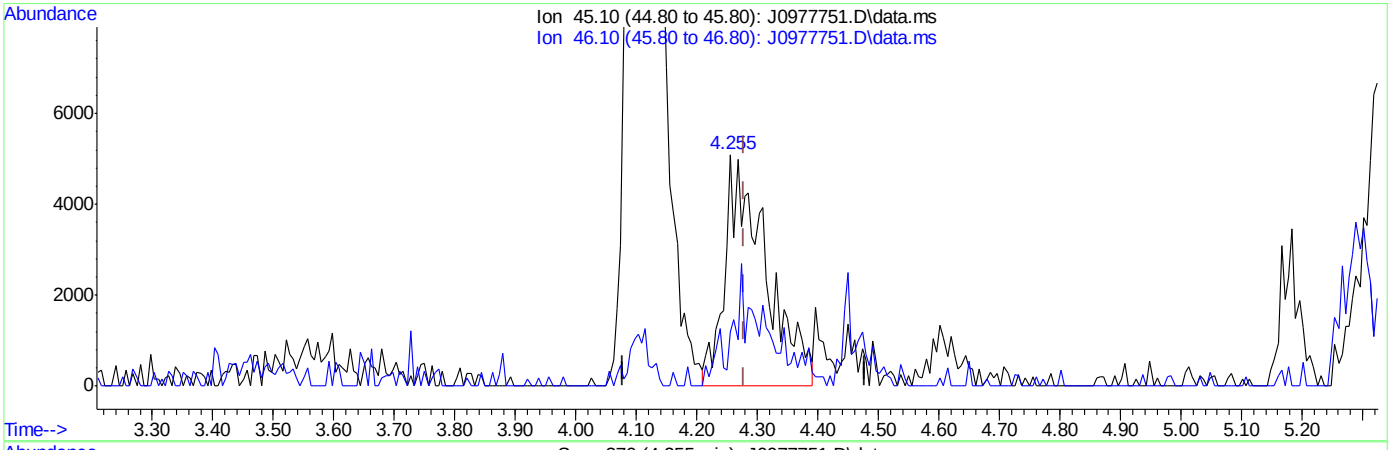
Ion	Exp%	Act%
45.10	100	100
46.10	23.90	25.11
0.00	0.00	0.00
0.00	0.00	0.00

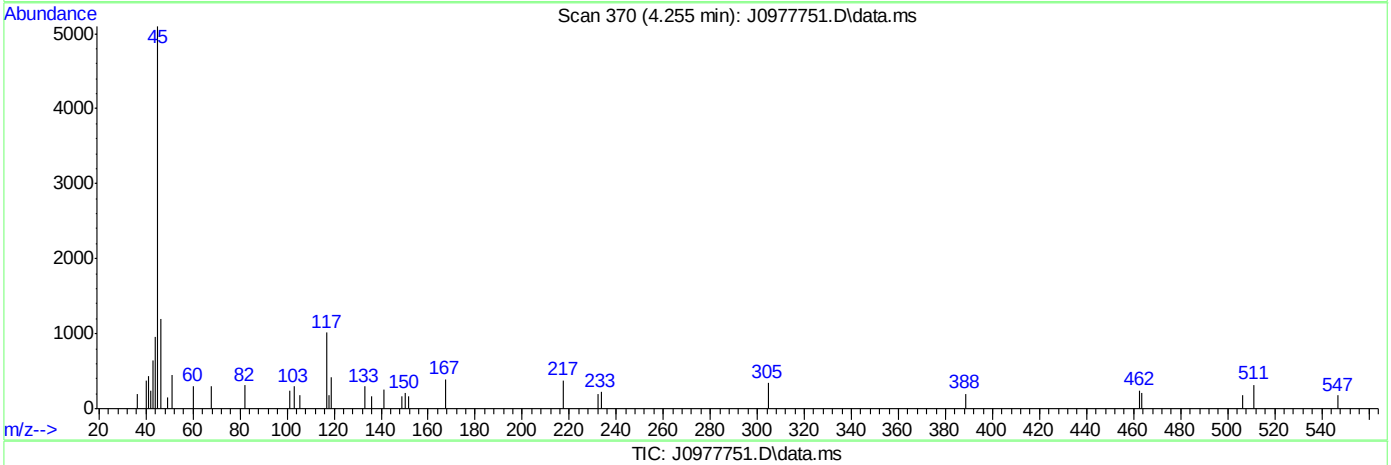
SGS ACCUTEST FA34891

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\070116\
Data File : J0977751.D
Acq On : 1 Jul 2016 10:51 am
Operator : darshnap
Sample : ic5359-6 Inst : MSVOA6
Misc : MS34274,vj5359,,,,,
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jul 01 11:16:05 2016
Quant Method : C:\msdchem\1\methods\MSJ070116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 21 11:35:53 2016
Response via : Initial Calibration





TIC: J0977751.D\data.ms

(107) Ethanol

4.255min (-0.023) 1397.17ug/L m

response 23686

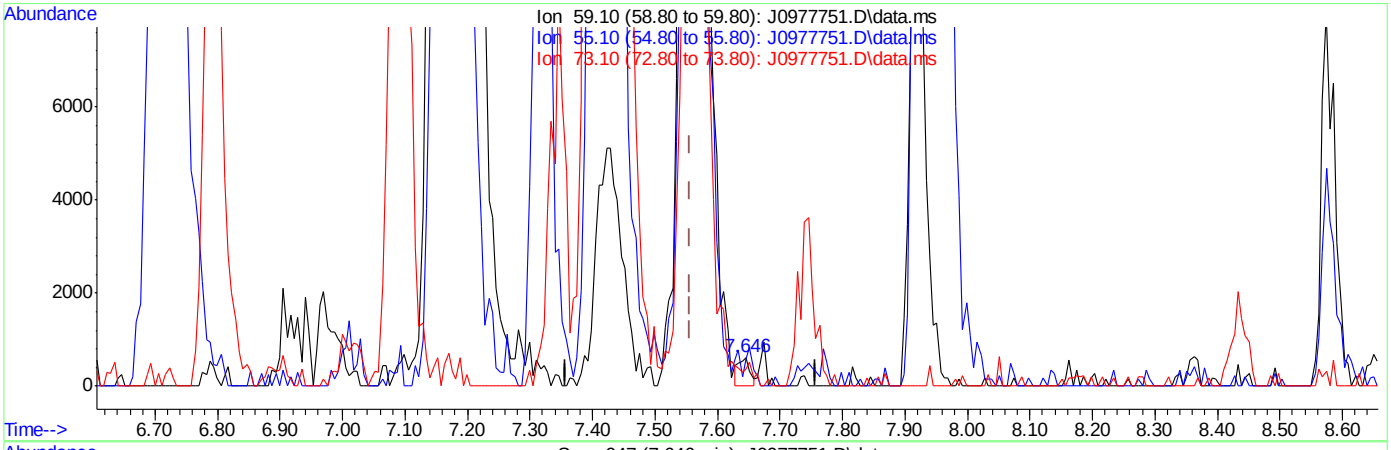
Ion	Exp%	Act%
45.10	100	100
46.10	23.90	23.37
0.00	0.00	0.00
0.00	0.00	0.00

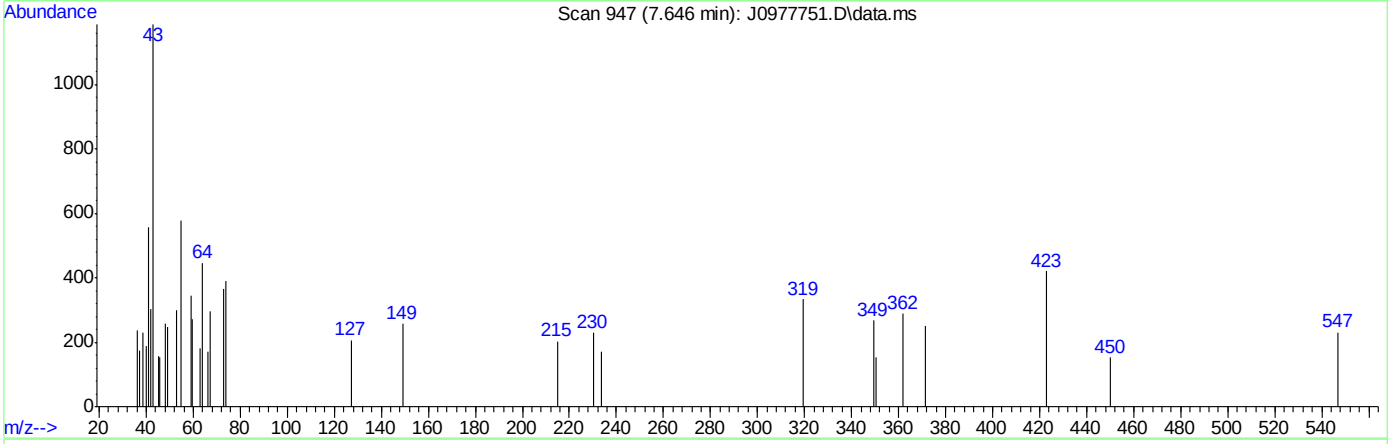
SGS ACCUTEST FA34891

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\070116\
Data File : J0977751.D
Acq On : 1 Jul 2016 10:51 am
Operator : darshnap
Sample : ic5359-6 Inst : MSVOA6
Misc : MS34274,vj5359,,,,,
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jul 01 11:16:05 2016
Quant Method : C:\msdchem\1\methods\MSJ070116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 21 11:35:53 2016
Response via : Initial Calibration





TIC: J0977751.D\data.ms

(110) tert Amyl alcohol

7.646min (+0.089) 5.15ug/L

response 746

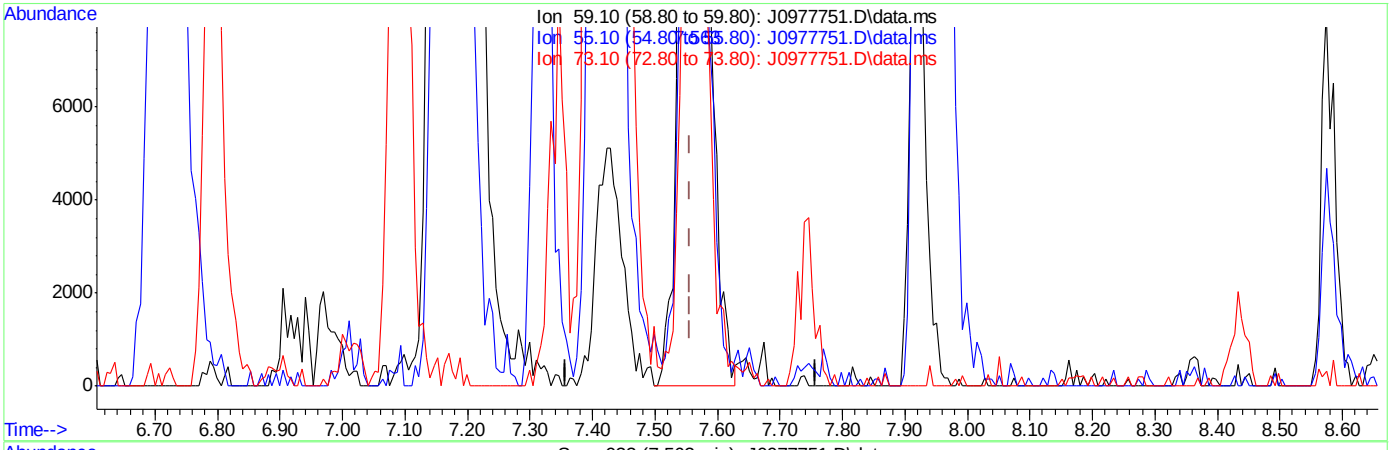
Ion	Exp%	Act%
59.10	100	100
55.10	44.50	49.67
73.10	52.20	39.26
0.00	0.00	0.00

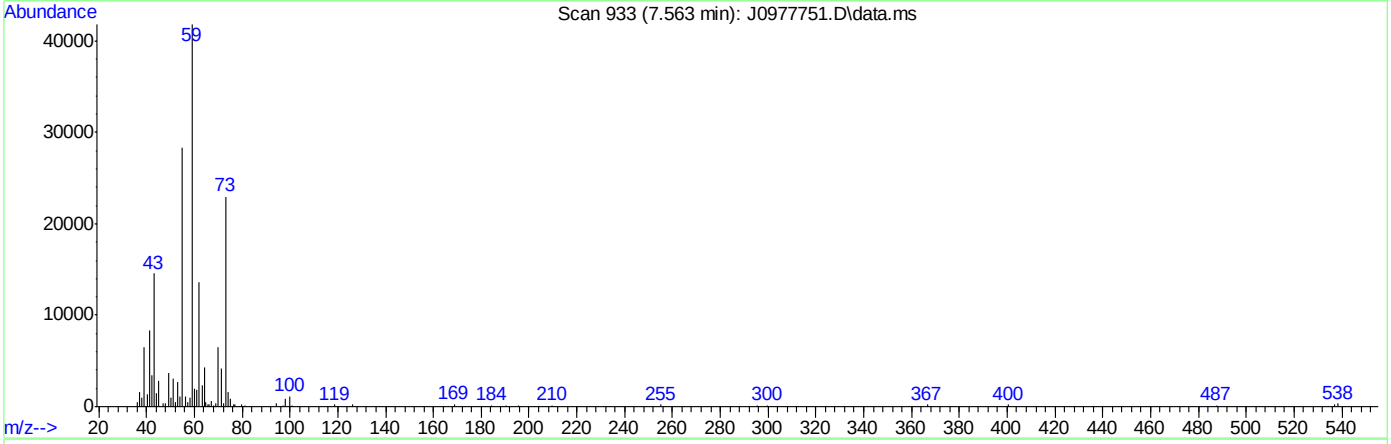
SGS ACCUTEST FA34891

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\070116\
Data File : J0977751.D
Acq On : 1 Jul 2016 10:51 am
Operator : darshnap
Sample : ic5359-6 Inst : MSVOA6
Misc : MS34274,vj5359,,,,,
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jul 01 11:16:05 2016
Quant Method : C:\msdchem\1\methods\MSJ070116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 21 11:35:53 2016
Response via : Initial Calibration





TIC: J0977751.D\data.ms

(110) tert Amyl alcohol

7.563min (+0.006) 634.65ug/L m

response 91959

Ion	Exp%	Act%
59.10	100	100
55.10	44.50	67.80#
73.10	52.20	54.93
0.00	0.00	0.00

SGS ACCUTEST FA34891

Manual Integrations APPROVED (compounds with "m" flag)
Juan Garcia
07/05/16 13:38

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\070116\
Data File : J0977752.D
Acq On : 1 Jul 2016 11:14 am
Operator : darshnap
Sample : ic5359-7 Inst : MSVOA6
Misc : MS34274,vj5359,,,,,
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jul 01 11:32:27 2016
Quant Method : C:\msdchem\1\methods\MSJ070116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 21 11:35:53 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.740	96	702085	50.00	ug/L	0.00
56) Chlorobenzene-d5	10.830	117	437973	50.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	13.186	152	262681	50.00	ug/L	0.00
106) Tert Butyl Alcohol-d10	5.301	65	48126	250.00	ug/L	0.00
System Monitoring Compounds						
36) Dibromofluoromethane	6.911	113	186185	50.39	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 100.78%			
46) 1,2-Dichloroethane-d4	7.464	65	201109	37.29	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 74.58%#			
57) Toluene-d8	9.285	98	556461	48.07	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 96.14%			
79) 4-Bromofluorobenzene	12.041	95	224703	44.53	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 89.06%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.669	85	298303	63.55	ug/L	98
3) Chloromethane	2.898	50	413286	87.70	ug/L	94
4) Vinyl Chloride	3.045	62	419450	93.07	ug/L	98
5) 1,3-Butadiene	3.028	54	321857	101.32	ug/L #	81
6) Bromomethane	3.451	94	351975	98.30	ug/L	96
7) Chloroethane	3.592	64	203832	74.08	ug/L	92
8) Trichlorofluoromethane	3.756	101	703993	89.80	ug/L	94
9) Ethyl Ether	4.115	59	332007	99.45	ug/L #	72
10) 1,2-Dichlorotrifluoroe...	4.338	67	442548	103.30	ug/L	93
11) 1,1-Dichloroethene	4.385	61	542523	94.57	ug/L	89
12) Freon 113	4.444	101	341693	97.72	ug/L	87
13) Carbon Disulfide	4.449	76	1232473	104.87	ug/L	88
14) Iodomethane	4.573	142	554507	91.70	ug/L	97
15) Allyl chloride	4.902	41	435344	80.61	ug/L	87
16) Methylene Chloride	5.031	49	480986	85.31	ug/L	92
17) Acetone	5.055	58	113101	484.29	ug/L #	47
18) Methyl acetate	5.172	74	225702	529.14	ug/L #	44
19) trans-1,2-Dichloroethene	5.219	61	473425	90.28	ug/L	92
20) Hexane	5.290	56	334859	95.45	ug/L #	92
21) Methyl Tert Butyl Ether	5.319	73	921291	81.22	ug/L	90
22) Acetonitrile	5.578	40	142780	831.47	ug/L #	73
23) Di-isopropyl ether	5.707	45	1066128	78.35	ug/L	96
24) Chloroprene	5.860	53	503530	72.40	ug/L	91
25) 1,1-Dichloroethane	5.889	63	666142	94.32	ug/L	97
26) Acrylonitrile	5.912	53	549383	557.74	ug/L	98
27) ETBE	6.106	59	1275422	89.60	ug/L	97
28) Vinyl acetate	6.095	43	3186158	425.56	ug/L	98
29) cis-1,2-Dichloroethene	6.459	96	527977	122.41	ug/L #	83
30) 2,2-Dichloropropane	6.588	77	592680	99.27	ug/L	98
31) Bromochloromethane	6.670	128	215428	114.02	ug/L	89
32) Cyclohexane	6.712	56	804036	121.27	ug/L	97
33) Chloroform	6.723	83	832490	111.57	ug/L	96
34) Ethyl acetate	6.788	43	1380165	506.85	ug/L	98

SGS ACCUTEST FA34891

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\070116\
Data File : J0977752.D
Acq On : 1 Jul 2016 11:14 am
Operator : darshnap
Sample : ic5359-7 Inst : MSVOA6
Misc : MS34274,vj5359,,,,,
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jul 01 11:32:27 2016
Quant Method : C:\msdchem\1\methods\MSJ070116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 21 11:35:53 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
35) Tetrahydrofuran	6.905	42	80023	102.12	ug/L		96
37) Carbon Tetrachloride	6.917	117	550326m	95.46	ug/L		
38) 1,1,1-Trichloroethane	6.982	97	680543	96.05	ug/L		94
39) 2-Butanone	7.011	43	535180	498.61	ug/L		82
40) 1,1-Dichloropropene	7.088	75	460498	89.23	ug/L		85
41) tert-Butyl Formate	7.176	59	1830628	725.45	ug/L		91
42) Propionitrile	7.317	54	411431	1083.25	ug/L		98
43) Methacrylonitrile	7.346	41	1527226	884.27	ug/L		94
44) Benzene	7.346	78	1636549	117.97	ug/L		90
45) TAME	7.422	73	1003397	88.00	ug/L		92
47) 1,2-Dichloroethane	7.534	62	509207	81.90	ug/L		93
48) Trichloroethene	7.922	95	426437	109.34	ug/L		92
49) Methylcyclohexane	7.951	83	720989	106.02	ug/L		90
50) Dibromomethane	8.345	93	217172	95.18	ug/L		85
51) 1,2-Dichloropropane	8.433	63	414252	108.96	ug/L		83
52) Bromodichloromethane	8.480	83	517294	88.52	ug/L		91
53) Methyl methacrylate	8.580	41	213818	80.01	ug/L		86
54) 2-Chloroethyl vinyl ether	8.991	63	1071253	526.61	ug/L		91
55) cis-1,3-Dichloropropene	9.097	75	676919	107.37	ug/L		80
58) Toluene	9.338	91	1321669	105.36	ug/L		99
59) 2-Nitropropane	9.538	41	271711	349.37	ug/L		94
60) 4-Methyl-2-pentanone	9.661	43	1482110	682.86	ug/L		92
61) trans-1,3-Dichloropropene	9.726	75	617556	133.40	ug/L		86
62) Tetrachloroethene	9.737	166	437767	130.23	ug/L		93
63) Ethyl methacrylate	9.820	69	381237	111.16	ug/L	#	76
64) 1,1,2-Trichloroethane	9.890	83	267019	132.55	ug/L	#	79
65) Dibromochloromethane	10.084	129	317733	96.80	ug/L		95
66) 1,3-Dichloropropane	10.166	76	482923	105.08	ug/L		84
67) 1,2-Dibromoethane	10.349	107	291533	111.79	ug/L		97
68) 2-hexanone	10.472	43	779450	528.30	ug/L		87
69) 1-Chlorohexane	10.783	91	474735	108.74	ug/L		87
70) Ethylbenzene	10.848	91	1684641	103.09	ug/L		92
71) Chlorobenzene	10.848	112	964007	122.10	ug/L		96
72) 1,1,1,2-Tetrachloroethane	10.901	131	318110	105.42	ug/L		95
73) m,p-Xylene	10.983	91	2608735	206.50	ug/L		88
74) o-Xylene	11.424	91	1412465	114.88	ug/L		96
75) Styrene	11.471	104	1058358	107.28	ug/L		97
76) Bromoform	11.529	173	164343	86.12	ug/L		92
77) Isopropylbenzene	11.723	105	1421739	92.68	ug/L		95
80) cis-1,4-Dichloro-2-butene	12.070	53	106915	77.69	ug/L	#	84
81) n-Propylbenzene	12.146	91	2226654	106.30	ug/L		92
82) Bromobenzene	12.164	156	385363	97.21	ug/L		99
83) 1,1,2,2-Tetrachloroethane	12.205	83	433316	119.15	ug/L		98
84) 1,3,5-Trimethylbenzene	12.329	105	1711439	109.96	ug/L		98
85) 2-Chlorotoluene	12.334	91	1579465	107.64	ug/L		93
86) trans-1,4-Dichloro-2-B...	12.381	53	103320	90.26	ug/L	#	64
87) 1,2,3-Trichloropropane	12.364	110	105320	99.45	ug/L		95
88) Cyclohexanone	12.434	55	53070	580.73	ug/L		89
89) 4-Chlorotoluene	12.499	91	1360891	113.30	ug/L		96
90) a-Methyl Styrene	12.593	118	870782	117.05	ug/L		97

SGS ACCUTEST FA34891

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\070116\
Data File : J0977752.D
Acq On : 1 Jul 2016 11:14 am
Operator : darshnap
Sample : ic5359-7 Inst : MSVOA6
Misc : MS34274,vj5359,,,,,
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jul 01 11:32:27 2016
Quant Method : C:\msdchem\1\methods\MSJ070116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 21 11:35:53 2016
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
91)	tert-Butylbenzene	12.669	91	944101	104.20	ug/L		91
92)	1,2,4-Trimethylbenzene	12.740	105	1520588	96.70	ug/L		87
93)	Pentachloroethane	12.722	167	241550	101.88	ug/L		92
94)	sec-Butylbenzene	12.852	105	2057763	110.51	ug/L		95
95)	4-Isopropyltoluene	12.987	119	1672957	106.09	ug/L		97
96)	1,3-Dichlorobenzene	13.122	146	860791	125.12	ug/L		82
97)	1,4-Dichlorobenzene	13.204	146	852657	124.29	ug/L		94
98)	n-Butylbenzene	13.421	92	1039486	115.39	ug/L		91
99)	Benzyl Chloride	13.433	126	138200	105.48	ug/L	#	79
100)	1,2-Dichlorobenzene	13.633	146	803925	112.60	ug/L		97
101)	1,2-Dibromo-3-Chloropr...	14.367	75	63698	102.36	ug/L		87
102)	Hexachlorobutadiene	14.914	225	271544	88.90	ug/L		80
103)	1,2,4-Trichlorobenzene	14.961	180	539780	95.32	ug/L		97
104)	Naphthalene	15.243	128	673401	72.15	ug/L		96
105)	1,2,3-Trichlorobenzene	15.413	180	299921	66.91	ug/L		97
107)	Ethanol	4.267	45	53462m	2128.26	ug/L		
108)	acrolein	4.749	56	264120	540.52	ug/L		82
109)	Tert Butyl Alcohol	5.366	59	223917	821.99	ug/L		96
110)	tert Amyl alcohol	7.563	59	219319	1021.51	ug/L		89
111)	Isobutyl alcohol	7.440	42	168291	2075.21	ug/L	#	69
112)	1,4-Dioxane	8.650	88	67588	2885.21	ug/L		83
113)	3,3-Dimethyl-1-butanol	10.425	57	1150190	5224.62	ug/L		92

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

7.6.16

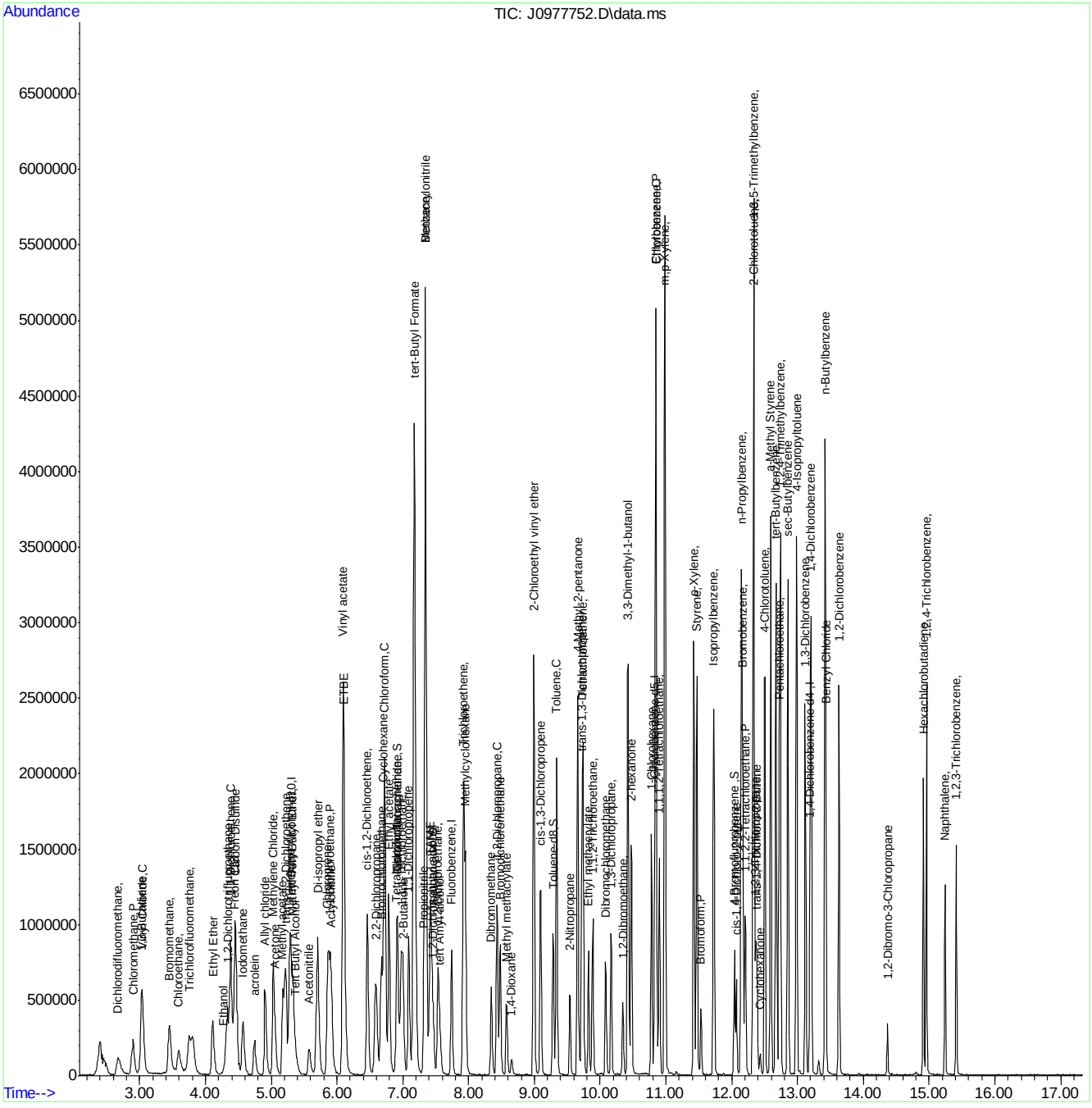
7

SGS ACCUTEST FA34891

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\070116\
Data File : J0977752.D
Acq On : 1 Jul 2016 11:14 am
Operator : darshnap
Sample : ic5359-7 Inst : MSVOA6
Misc : MS34274,vj5359,,,,,
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jul 01 11:32:27 2016
Quant Method : C:\msdchem\1\methods\MSJ070116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 21 11:35:53 2016
Response via : Initial Calibration



SGS ACCUTEST FA34891

Manual Integration Approval Summary

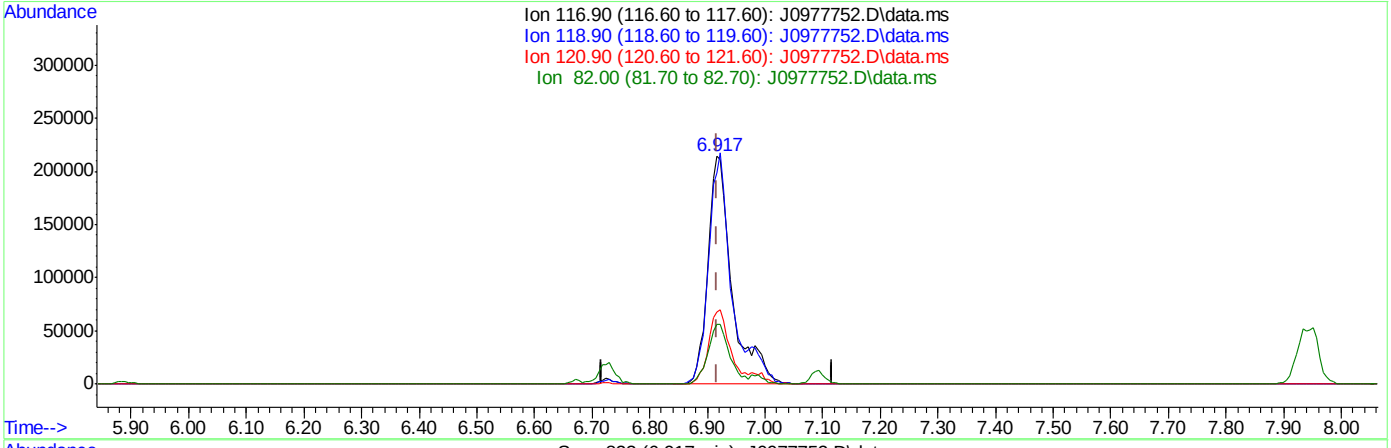
Sample Number:	VJ5359-IC5359	**Method:**	SW846 8260B
Lab FileID:	J0977752.D	**Analyst approved:**	07/05/16 08:03 Darshna Patel
Injection Time:	07/01/16 11:14	**Supervisor approved:**	07/05/16 13:38 Juan Garcia

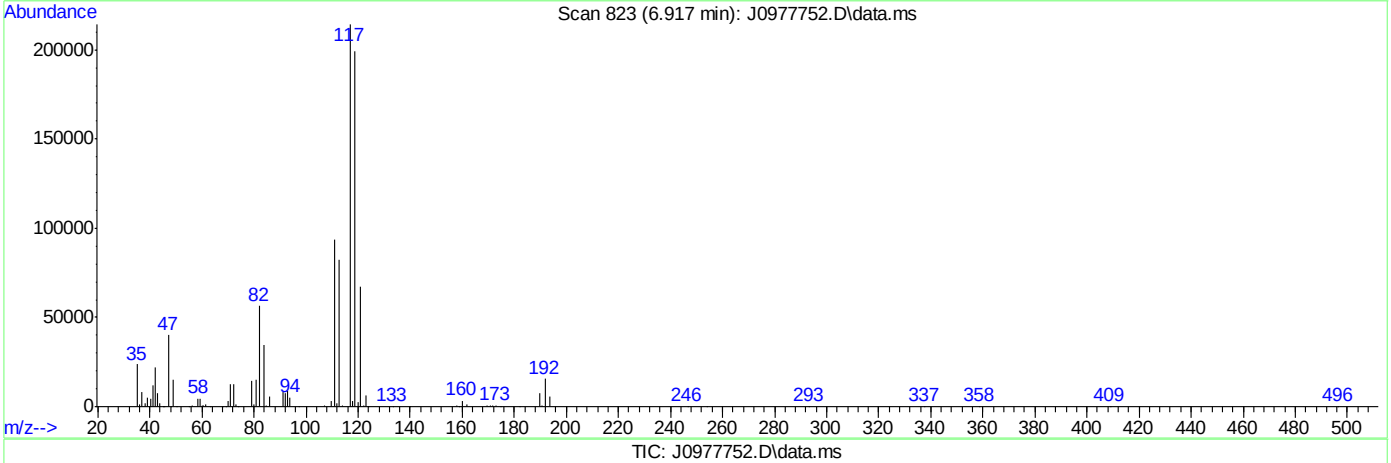
Parameter	CAS	Sig#	R.T. (min.)	Reason
Ethyl Alcohol	64-17-5		4.27	Poor instrument integration
Carbon Tetrachloride	56-23-5		6.92	Overlapping peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\070116\
Data File : J0977752.D
Acq On : 1 Jul 2016 11:14 am
Operator : darshnap
Sample : ic5359-7 Inst : MSVOA6
Misc : MS34274,vj5359,,,,,
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jul 01 11:31:58 2016
Quant Method : C:\msdchem\1\methods\MSJ070116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 21 11:35:53 2016
Response via : Initial Calibration





TIC: J0977752.D\data.ms

(37) Carbon Tetrachloride ( )

6.917min (+0.000) 108.12ug/L

response 623315

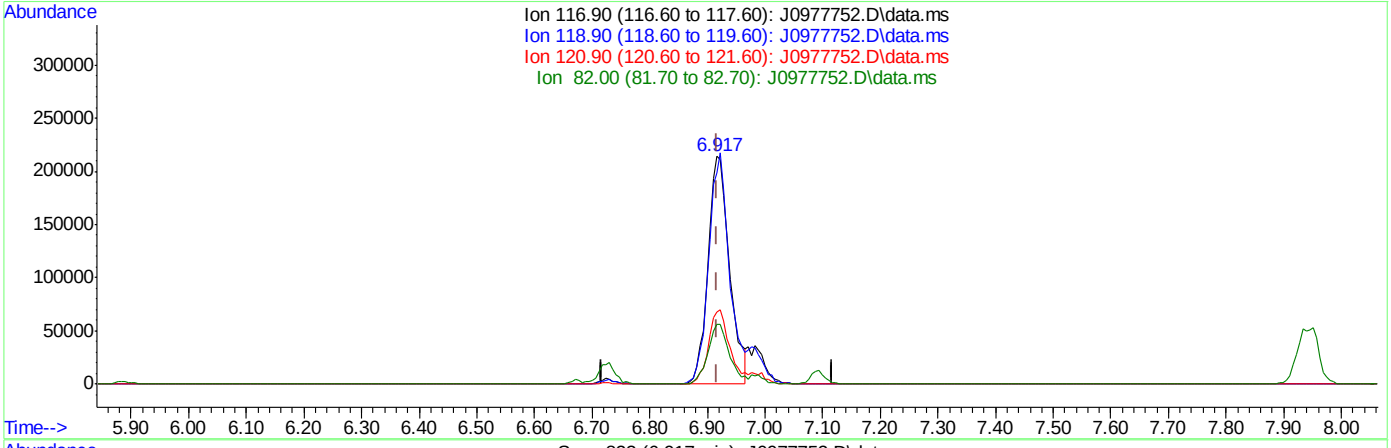
Ion	Exp%	Act%
116.90	100	100
118.90	91.80	92.83
120.90	27.00	31.45
82.00	24.80	26.23

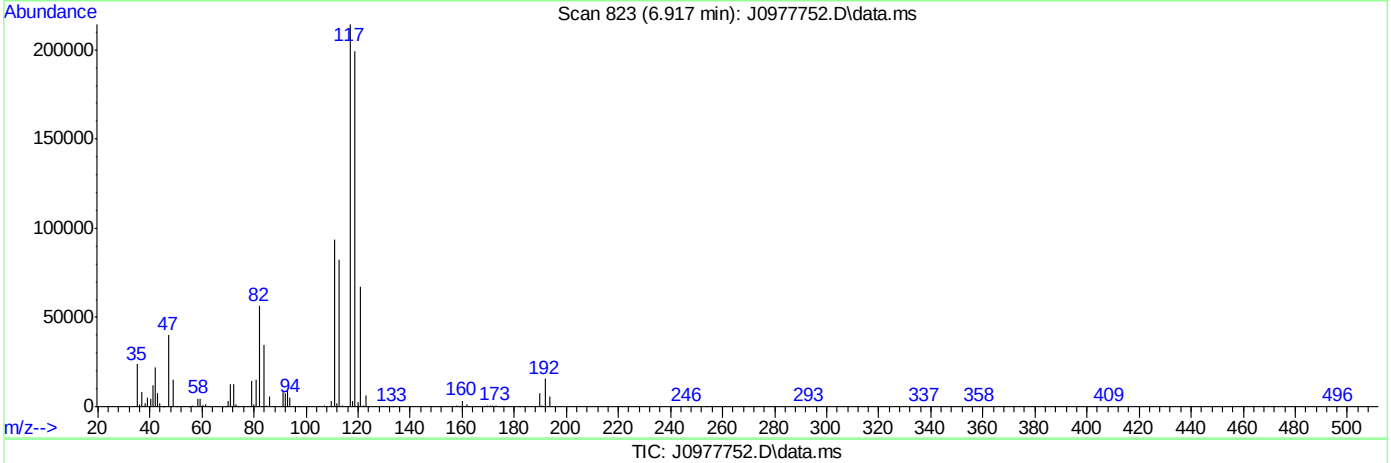
SGS ACCUTEST FA34891

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\070116\
Data File : J0977752.D
Acq On : 1 Jul 2016 11:14 am
Operator : darshnap
Sample : ic5359-7 Inst : MSVOA6
Misc : MS34274,vj5359,,,,,
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jul 01 11:31:58 2016
Quant Method : C:\msdchem\1\methods\MSJ070116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 21 11:35:53 2016
Response via : Initial Calibration





TIC: J0977752.D\data.ms

(37) Carbon Tetrachloride ( )

6.917min (+0.000) 95.46ug/L m

response 550326

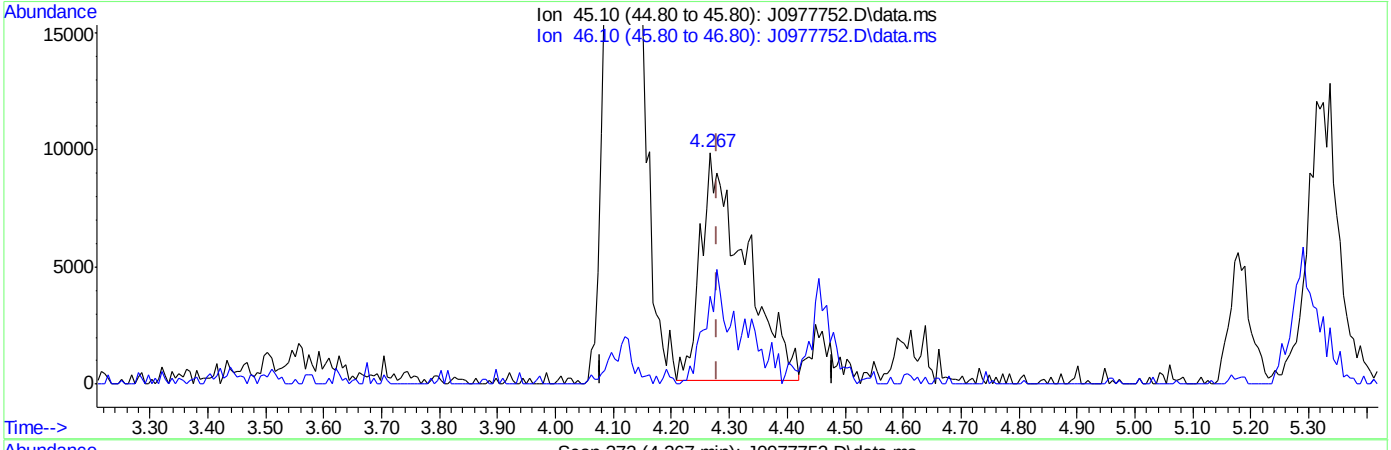
Ion	Exp%	Act%
116.90	100	100
118.90	91.80	92.83
120.90	27.00	31.45
82.00	24.80	26.30

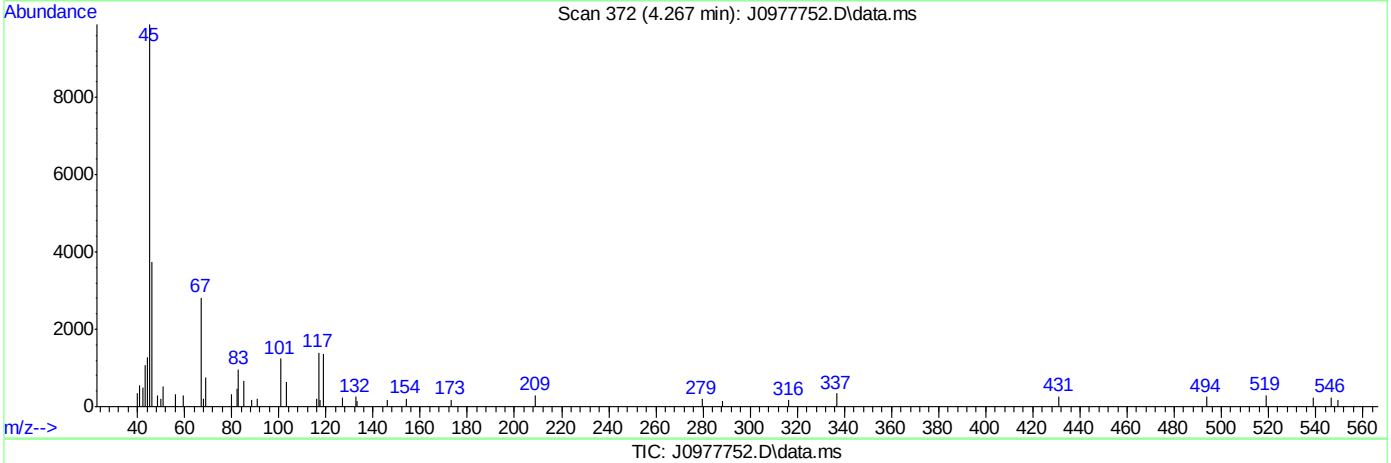
SGS ACCUTEST FA34891

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\070116\
Data File : J0977752.D
Acq On : 1 Jul 2016 11:14 am
Operator : darshnap
Sample : ic5359-7 Inst : MSVOA6
Misc : MS34274,vj5359,,,,,
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jul 01 11:31:58 2016
Quant Method : C:\msdchem\1\methods\MSJ070116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 21 11:35:53 2016
Response via : Initial Calibration





TIC: J0977752.D\data.ms

(107) Ethanol

4.267min (-0.012) 2050.43ug/L

response 51507

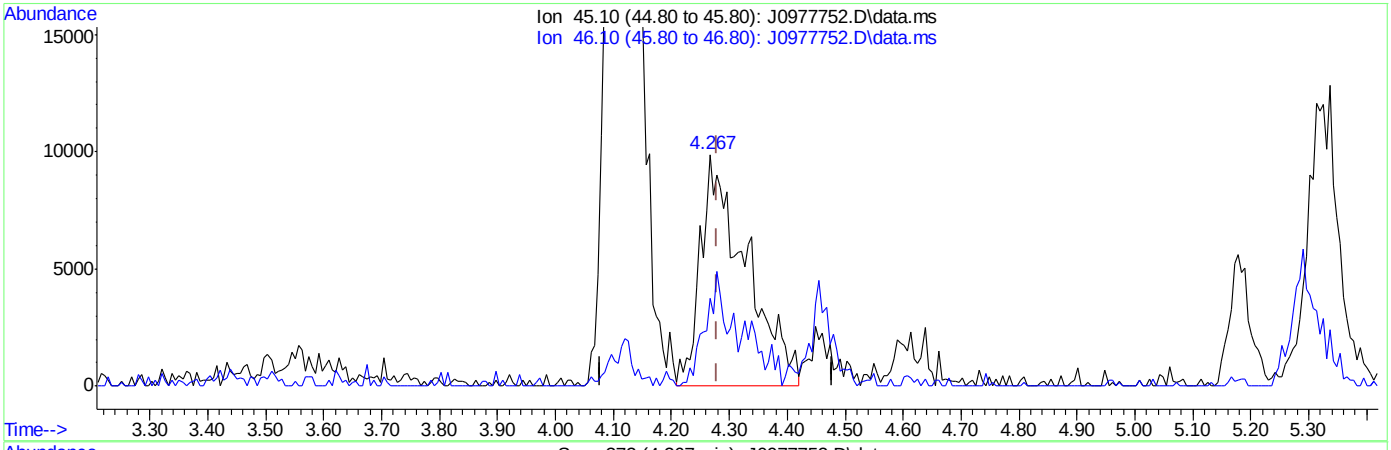
Ion	Exp%	Act%
45.10	100	100
46.10	23.90	38.57
0.00	0.00	0.00
0.00	0.00	0.00

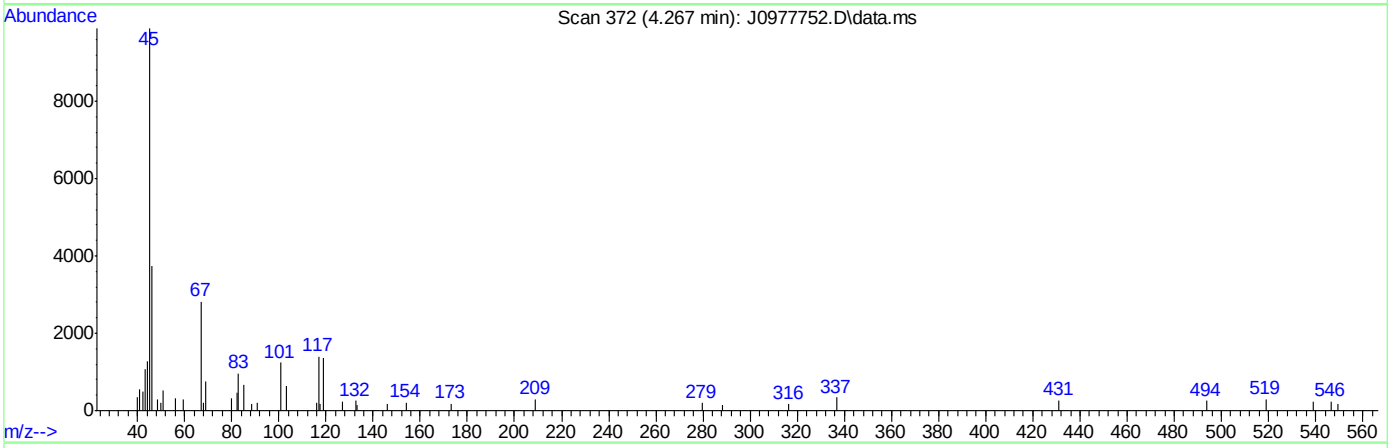
SGS ACCUTEST FA34891

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\070116\
Data File : J0977752.D
Acq On : 1 Jul 2016 11:14 am
Operator : darshnap
Sample : ic5359-7 Inst : MSVOA6
Misc : MS34274,vj5359,,,,,
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jul 01 11:31:58 2016
Quant Method : C:\msdchem\1\methods\MSJ070116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 21 11:35:53 2016
Response via : Initial Calibration





TIC: J0977752.D\data.ms

(107) Ethanol

4.267min (-0.012) 2128.26ug/L m

response 53462

Ion	Exp%	Act%
45.10	100	100
46.10	23.90	37.97
0.00	0.00	0.00
0.00	0.00	0.00

SGS ACCUTEST FA34891

J0977754.D

Manual Integrations APPROVED (compounds with "m" flag)

Juan Garcia
07/05/16 13:38

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\070116\
Data File : J0977754.D
Acq On : 1 Jul 2016 12:00 pm
Operator : darshnap
Sample : ic5359-1 Inst : MSVOA6
Misc : MS34274,vj5359,,,,,
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jul 01 12:34:41 2016
Quant Method : C:\msdchem\1\methods\MSJ070116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Jul 01 11:37:49 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.740	96	452521	50.00	ug/L	0.00
56) Chlorobenzene-d5	10.830	117	308837	50.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	13.192	152	173032	50.00	ug/L	0.00
106) Tert Butyl Alcohol-d10	5.295	65	28108	250.00	ug/L	0.02
System Monitoring Compounds						
36) Dibromofluoromethane	6.917	113	113060	50.14	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 100.28%			
46) 1,2-Dichloroethane-d4	7.469	65	140563	48.53	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 97.06%			
57) Toluene-d8	9.285	98	420116	52.61	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 105.22%			
79) 4-Bromofluorobenzene	12.041	95	175179	51.72	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 103.44%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.722	85	2997m	1.16	ug/L	
3) Chloromethane	2.869	50	3865	1.16	ug/L	93
4) Vinyl Chloride	3.033	62	5070m	1.48	ug/L	
5) 1,3-Butadiene	3.027	54	3049	1.18	ug/L	90
6) Bromomethane	3.439	94	4696m	1.36	ug/L	
7) Chloroethane	3.621	64	2900	1.05	ug/L	58
8) Trichlorofluoromethane	3.785	101	6478m	1.05	ug/L	
9) Ethyl Ether	4.120	59	2245m	1.11	ug/L	
10) 1,2-Dichlorotrifluoroe...	4.332	67	2558	0.97	ug/L #	54
11) 1,1-Dichloroethene	4.391	61	4157	1.12	ug/L	90
12) Freon 113	4.432	101	2154	0.84	ug/L #	59
13) Carbon Disulfide	4.479	76	9094	1.24	ug/L	82
14) Iodomethane	4.573	142	3973	1.15	ug/L	99
15) Allyl chloride	4.925	41	2733	1.01	ug/L	85
16) Methylene Chloride	5.043	49	22626	5.11	ug/L	99
17) Acetone	5.066	58	978m	6.83	ug/L	
18) Methyl acetate	5.219	74	1535m	5.93	ug/L	
19) trans-1,2-Dichloroethene	5.231	61	3729	1.26	ug/L	82
20) Hexane	5.284	56	2664	1.30	ug/L #	36
21) Methyl Tert Butyl Ether	5.331	73	8472m	1.49	ug/L	
22) Acetonitrile	5.325	40	1914m	20.62	ug/L	
23) Di-isopropyl ether	5.707	45	10537	1.42	ug/L	91
24) Chloroprene	5.871	53	3526	0.87	ug/L #	58
25) 1,1-Dichloroethane	5.883	63	7087	1.64	ug/L	67
26) Acrylonitrile	5.930	53	2475m	3.96	ug/L	
27) ETBE	6.106	59	8416	1.16	ug/L	84
28) Vinyl acetate	6.106	43	18900	4.55	ug/L	99
29) cis-1,2-Dichloroethene	6.471	96	3438m	1.29	ug/L	
30) 2,2-Dichloropropane	6.582	77	2961	1.00	ug/L	70
31) Bromochloromethane	6.670	128	1198	1.08	ug/L #	70
32) Cyclohexane	6.717	56	5761	1.39	ug/L #	85
33) Chloroform	6.729	83	5194	1.29	ug/L	91
34) Ethyl acetate	6.811	43	7004	4.60	ug/L	71

SGS ACCUTEST FA34891

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\070116\
Data File : J0977754.D
Acq On : 1 Jul 2016 12:00 pm
Operator : darshnap
Sample : ic5359-1 Inst : MSVOA6
Misc : MS34274,vj5359,,,,,
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jul 01 12:34:41 2016
Quant Method : C:\msdchem\1\methods\MSJ070116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Jul 01 11:37:49 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
35) Tetrahydrofuran	6.899	42	753	1.91 ug/L #	32
37) Carbon Tetrachloride	6.917	117	3802	1.29 ug/L	87
38) 1,1,1-Trichloroethane	6.988	97	5386	1.43 ug/L	71
39) 2-Butanone	7.023	43	2605	4.18 ug/L	52
40) 1,1-Dichloropropene	7.093	75	4310	1.43 ug/L	87
41) tert-Butyl Formate	7.170	59	7806	6.57 ug/L #	67
42) Propionitrile	7.334	54	2147	9.31 ug/L	67
43) Methacrylonitrile	7.352	41	10722	11.12 ug/L	84
44) Benzene	7.352	78	12434	1.34 ug/L	93
45) TAME	7.428	73	7756	1.34 ug/L	90
47) 1,2-Dichloroethane	7.534	62	5227	1.39 ug/L	67
48) Trichloroethene	7.928	95	3044	1.30 ug/L #	71
49) Methylcyclohexane	7.939	83	4890	1.22 ug/L	82
50) Dibromomethane	8.351	93	2551	1.85 ug/L #	48
51) 1,2-Dichloropropane	8.439	63	3250	1.34 ug/L #	70
52) Bromodichloromethane	8.486	83	2812	0.95 ug/L	94
53) Methyl methacrylate	8.598	41	1016	0.76 ug/L #	76
54) 2-Chloroethyl vinyl ether	8.997	63	9025	6.54 ug/L	88
55) cis-1,3-Dichloropropene	9.103	75	3570	1.04 ug/L	71
58) Toluene	9.344	91	14947	1.73 ug/L	84
59) 2-Nitropropane	9.555	41	2490	8.00 ug/L #	45
60) 4-Methyl-2-pentanone	9.667	43	7638	4.84 ug/L	87
61) trans-1,3-Dichloropropene	9.732	75	2702	0.96 ug/L	79
62) Tetrachloroethene	9.749	166	2919	1.43 ug/L #	42
63) Ethyl methacrylate	9.837	69	1334	0.62 ug/L #	34
64) 1,1,2-Trichloroethane	9.884	83	2275	1.62 ug/L #	55
65) Dibromochloromethane	10.096	129	2399	1.27 ug/L #	43
66) 1,3-Dichloropropane	10.172	76	3312	1.07 ug/L #	63
67) 1,2-Dibromoethane	10.348	107	2188	1.35 ug/L #	56
68) 2-hexanone	10.489	43	4082	3.97 ug/L	73
69) 1-Chlorohexane	10.783	91	3261	1.15 ug/L	87
70) Ethylbenzene	10.848	91	17318	1.55 ug/L	100
71) Chlorobenzene	10.848	112	9685	1.75 ug/L	84
72) 1,1,1,2-Tetrachloroethane	10.901	131	2234	1.21 ug/L	94
73) m,p-Xylene	10.983	91	23621	2.94 ug/L	95
74) o-Xylene	11.430	91	11822	1.49 ug/L	82
75) Styrene	11.482	104	5633	0.90 ug/L	93
76) Bromoform	11.535	173	1196	1.23 ug/L #	48
77) Isopropylbenzene	11.729	105	13381	1.40 ug/L	88
80) cis-1,4-Dichloro-2-butene	12.088	53	900	1.11 ug/L #	63
81) n-Propylbenzene	12.146	91	16220	1.15 ug/L	85
82) Bromobenzene	12.170	156	3389	1.27 ug/L	77
83) 1,1,2,2-Tetrachloroethane	12.205	83	3356	1.26 ug/L	64
84) 1,3,5-Trimethylbenzene	12.334	105	11553	1.17 ug/L	92
85) 2-Chlorotoluene	12.340	91	10742	1.11 ug/L	88
86) trans-1,4-Dichloro-2-B...	12.393	53	901	1.23 ug/L #	8
87) 1,2,3-Trichloropropane	12.364	110	1366	1.89 ug/L #	37
88) Cyclohexanone	12.452	55	462	6.60 ug/L #	44
89) 4-Chlorotoluene	12.511	91	11970	1.23 ug/L	90
90) a-Methyl Styrene	12.593	118	4194	0.78 ug/L #	81

SGS ACCUTEST FA34891

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\070116\
Data File : J0977754.D
Acq On : 1 Jul 2016 12:00 pm
Operator : darshnap
Sample : ic5359-1 Inst : MSVOA6
Misc : MS34274,vj5359,,,,,
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jul 01 12:34:41 2016
Quant Method : C:\msdchem\1\methods\MSJ070116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Jul 01 11:37:49 2016
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
91)	tert-Butylbenzene	12.669	91	7206	1.26	ug/L		98
92)	1,2,4-Trimethylbenzene	12.740	105	12961	1.30	ug/L		91
93)	Pentachloroethane	12.716	167	1198	0.79	ug/L	#	42
94)	sec-Butylbenzene	12.857	105	14943	1.19	ug/L		87
95)	4-Isopropyltoluene	12.987	119	13799	1.34	ug/L		74
96)	1,3-Dichlorobenzene	13.128	146	6941	1.39	ug/L		90
97)	1,4-Dichlorobenzene	13.204	146	7286m	1.37	ug/L		
98)	n-Butylbenzene	13.421	92	6320	1.04	ug/L		89
99)	Benzyl Chloride	13.439	126	905	1.25	ug/L	#	1
100)	1,2-Dichlorobenzene	13.633	146	6354	1.36	ug/L		92
102)	Hexachlorobutadiene	14.920	225	1634	1.10	ug/L		82
103)	1,2,4-Trichlorobenzene	14.967	180	4534	1.55	ug/L		79
104)	Naphthalene	15.255	128	8232	1.30	ug/L		82
105)	1,2,3-Trichlorobenzene	15.419	180	3424	1.16	ug/L		82
108)	acrolein	4.755	56	2449	7.47	ug/L		84
109)	Tert Butyl Alcohol	5.384	59	1442m	9.96	ug/L		
110)	tert Amyl alcohol	7.563	59	1281m	12.45	ug/L		
111)	Isobutyl alcohol	7.440	42	1094m	19.81	ug/L		
112)	1,4-Dioxane	8.662	88	620m	45.34	ug/L		
113)	3,3-Dimethyl-1-butanol	10.431	57	4768	19.50	ug/L	#	78

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

7.6.17

7

SGS ACCUTEST FA34891

Quantitation Report (QT Reviewed)

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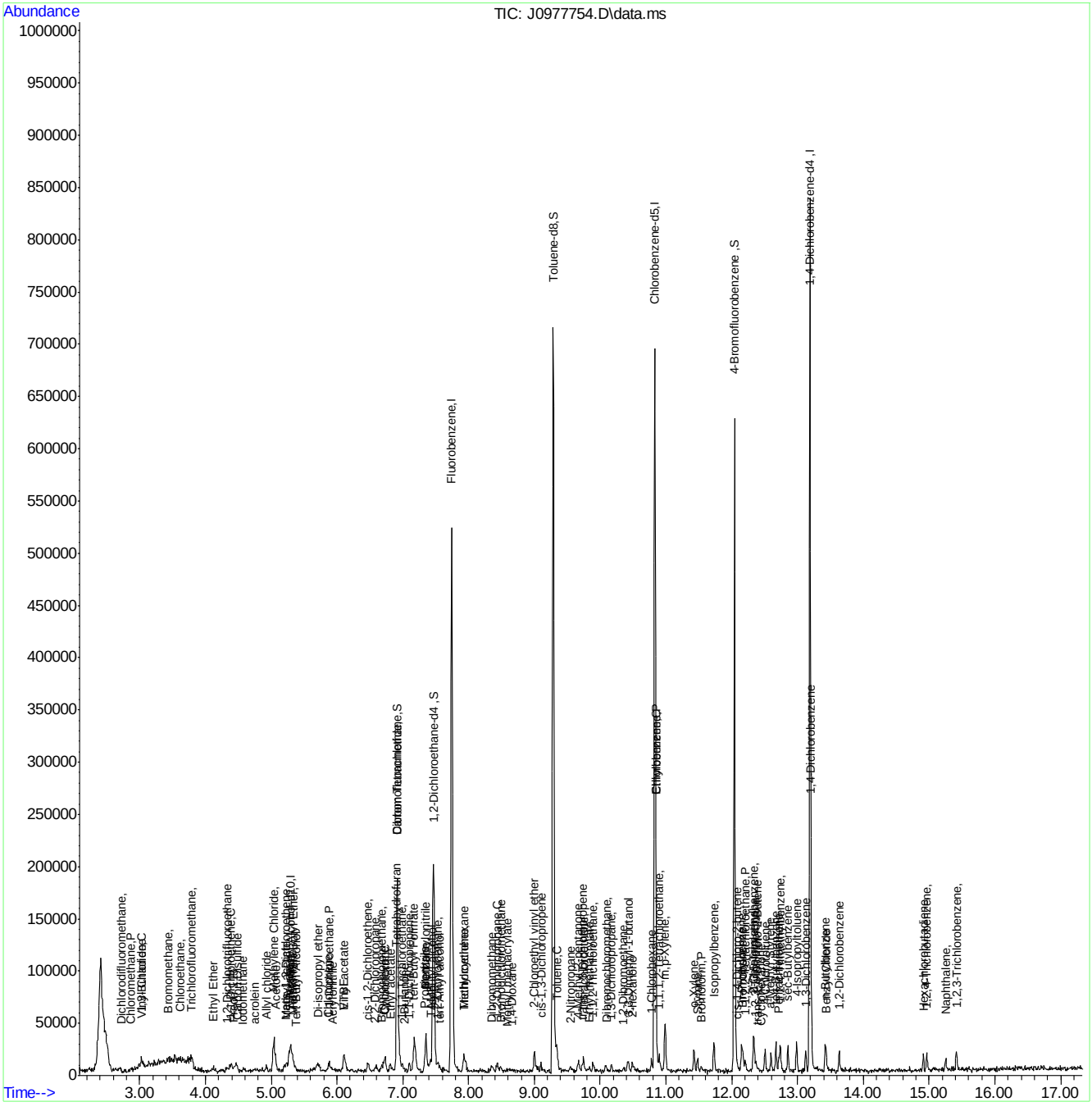
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Jul 01 11:37:49 2016
Response via : Initial Calibration



SGS ACCUTEST FA34891

Manual Integration Approval Summary

Sample Number: VJ5359-IC5359 **Method:** SW846 8260B
Lab FileID: J0977754.D **Analyst approved:** 07/05/16 08:03 Darshna Patel
Injection Time: 07/01/16 12:00 **Supervisor approved:** 07/05/16 13:38 Juan Garcia

Parameter	CAS	Sig#	R.T. (min.)	Reason
Dichlorodifluoromethane	75-71-8		2.72	Poor instrument integration
Vinyl Chloride	75-01-4		3.03	Poor instrument integration
Methyl Bromide	74-83-9		3.44	Poor instrument integration
Trichlorofluoromethane	75-69-4		3.79	Split peak
Ethyl Ether	60-29-7		4.12	Poor instrument integration
Acetone	67-64-1		5.07	Poor instrument integration
Methyl Acetate	79-20-9		5.22	Poor instrument integration
Acetonitrile	75-05-8		5.32	Poor instrument integration
Methyl Tert Butyl Ether	1634-04-4		5.33	Poor instrument integration
Tert-Butyl Alcohol	75-65-0		5.38	Poor instrument integration
Acrylonitrile	107-13-1		5.93	Poor instrument integration
cis-1,2-Dichloroethylene	156-59-2		6.47	Poor instrument integration
Isobutyl Alcohol	78-83-1		7.44	Poor instrument integration
Tert-Amyl Alcohol	75-85-4		7.56	Poor instrument integration
1,4-Dioxane	123-91-1		8.66	Poor instrument integration
1,4-Dichlorobenzene	106-46-7		13.20	Poor instrument integration

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\070116\
Data File : J0977754.D
Acq On : 1 Jul 2016 12:00 pm
Operator : darshnap
Sample : ic5359-1 Inst : MSVOA6
Misc : MS34274,vj5359,,,,,
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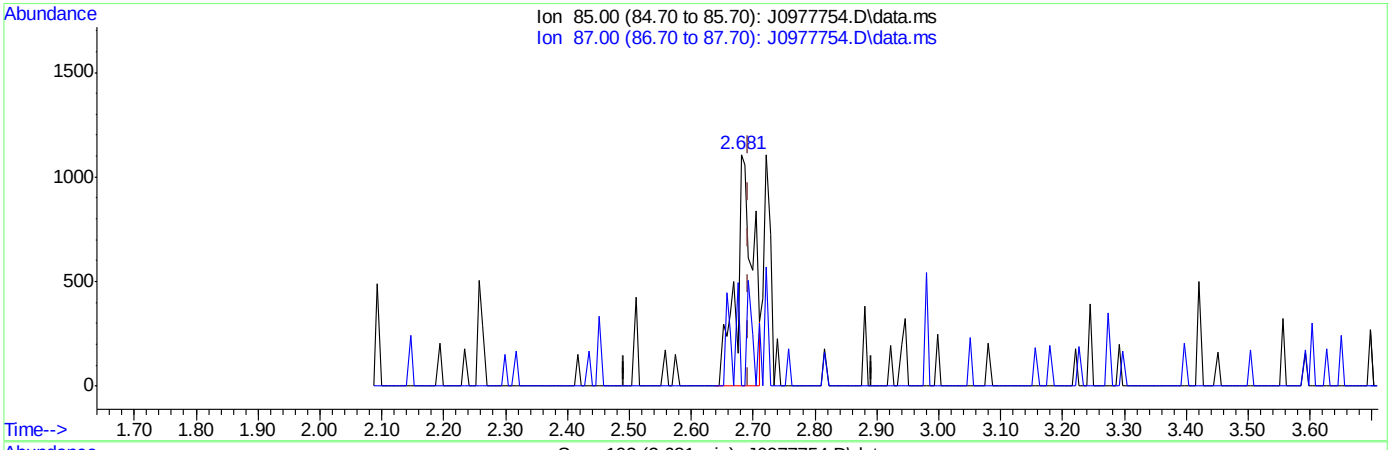
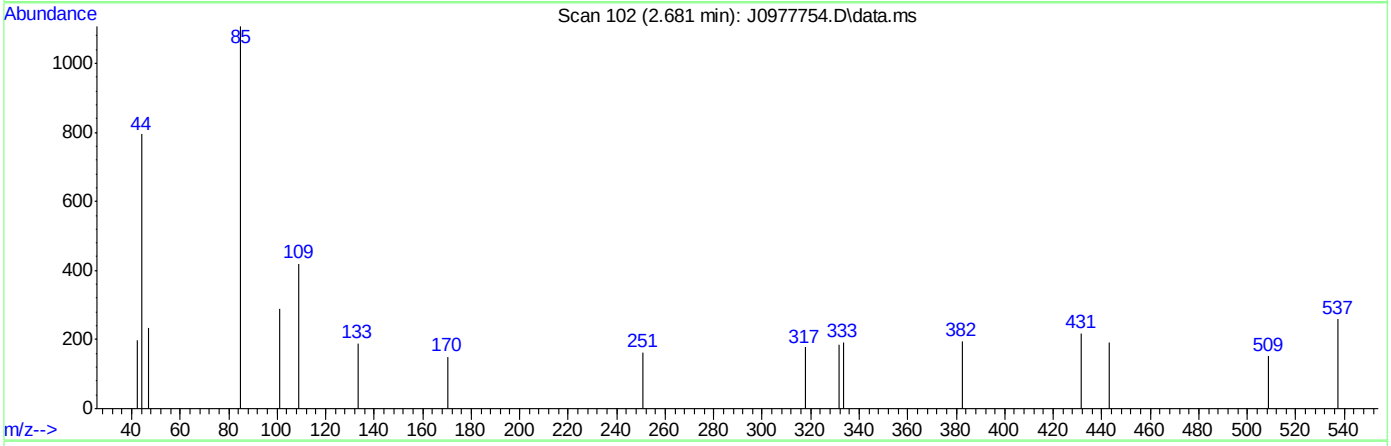
Quant Time: Jul 01 12:28:50 2016
Quant Method : C:\msdchem\1\methods\MSJ070116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Jul 01 11:37:49 2016
Response via : Initial Calibration





TIC: J0977754.D\data.ms

(2) Dichlorodifluoromethane ( )

2.681min (-0.012) 0.82ug/L

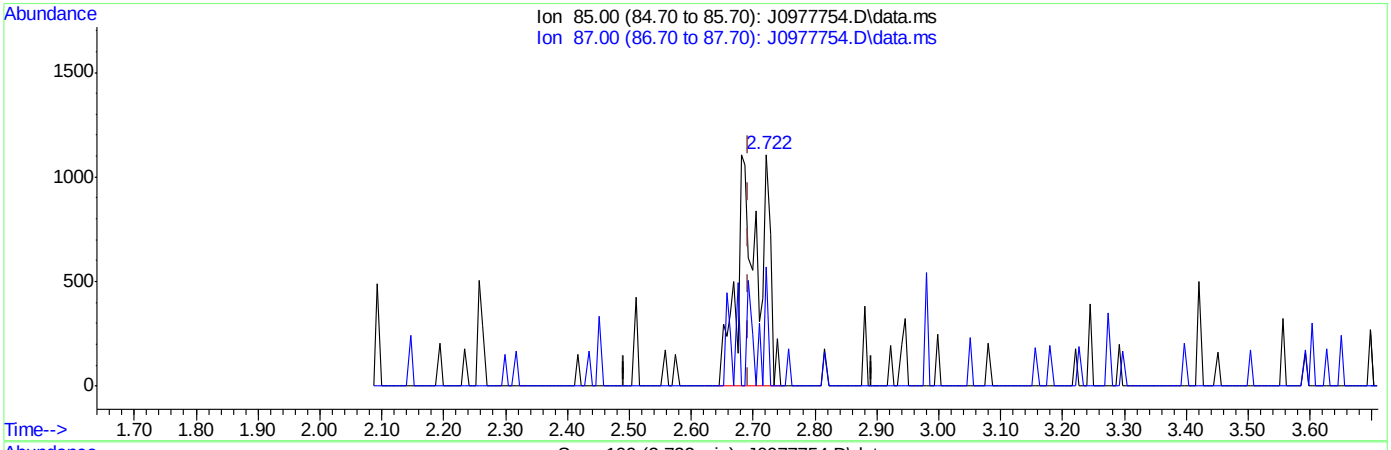
response 2123

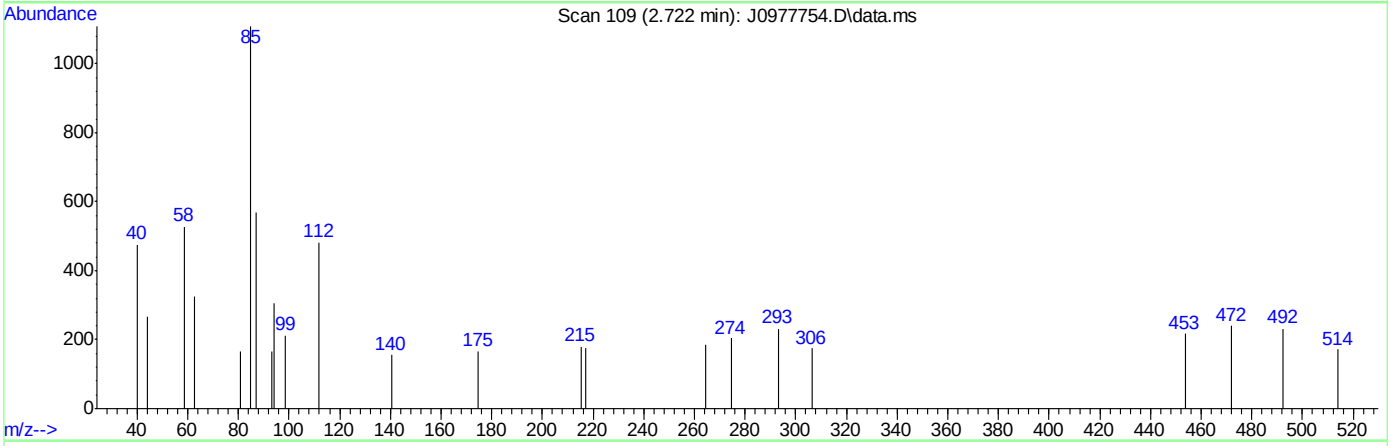
Ion	Exp%	Act%
85.00	100	100
87.00	25.30	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\070116\
Data File : J0977754.D
Acq On : 1 Jul 2016 12:00 pm
Operator : darshnap
Sample : ic5359-1 Inst : MSVOA6
Misc : MS34274,vj5359,,,,,
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jul 01 12:28:50 2016
Quant Method : C:\msdchem\1\methods\MSJ070116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Jul 01 11:37:49 2016
Response via : Initial Calibration





TIC: J0977754.D\data.ms

(2) Dichlorodifluoromethane ( )

2.722min (+0.030) 1.16ug/L m

response 2997

Ion	Exp%	Act%
85.00	100	100
87.00	25.30	51.44
0.00	0.00	0.00
0.00	0.00	0.00

SGS ACCUTEST FA34891

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\070116\
Data File : J0977754.D
Acq On : 1 Jul 2016 12:00 pm
Operator : darshnap
Sample : ic5359-1 Inst : MSVOA6
Misc : MS34274,vj5359,,,,,
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jul 01 12:28:50 2016
Quant Method : C:\msdchem\1\methods\MSJ070116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Jul 01 11:37:49 2016
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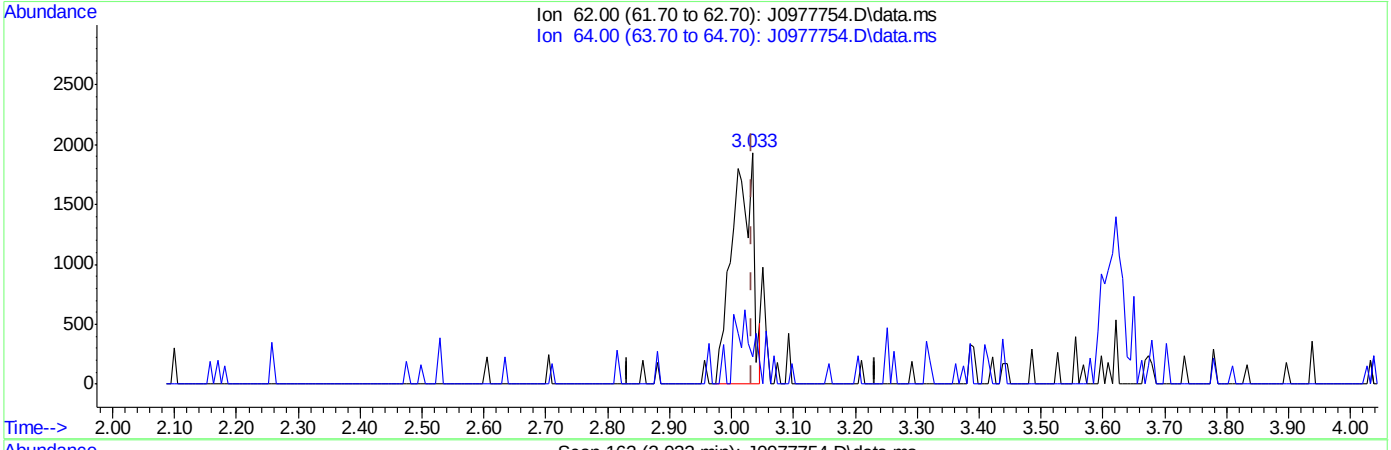
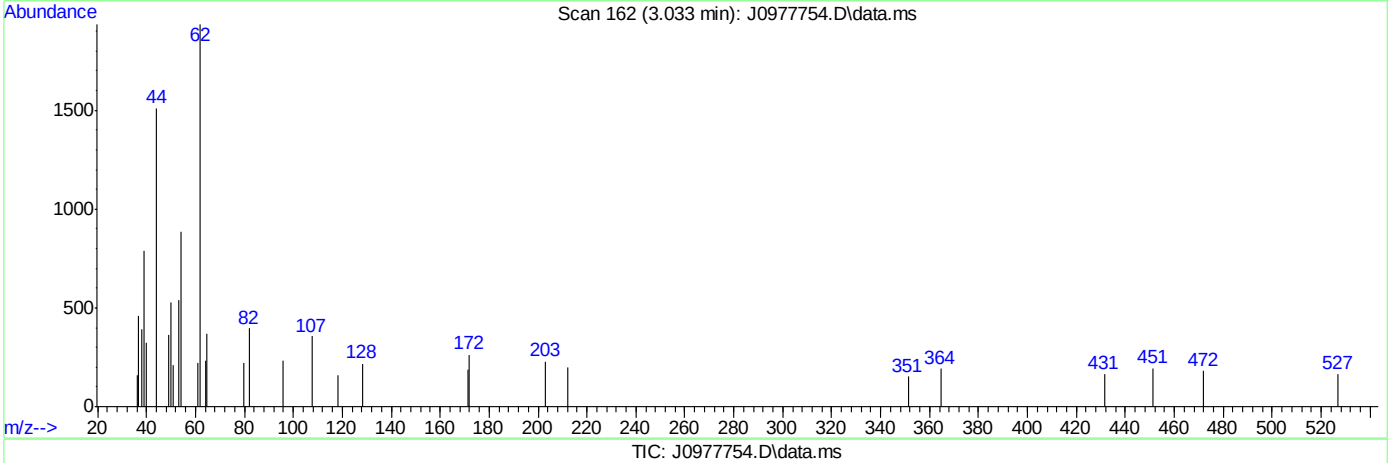




TIC: J0977754.D\data.ms

(4) Vinyl Chloride (C)

3.033min (+0.000) 1.31ug/L

response 4509

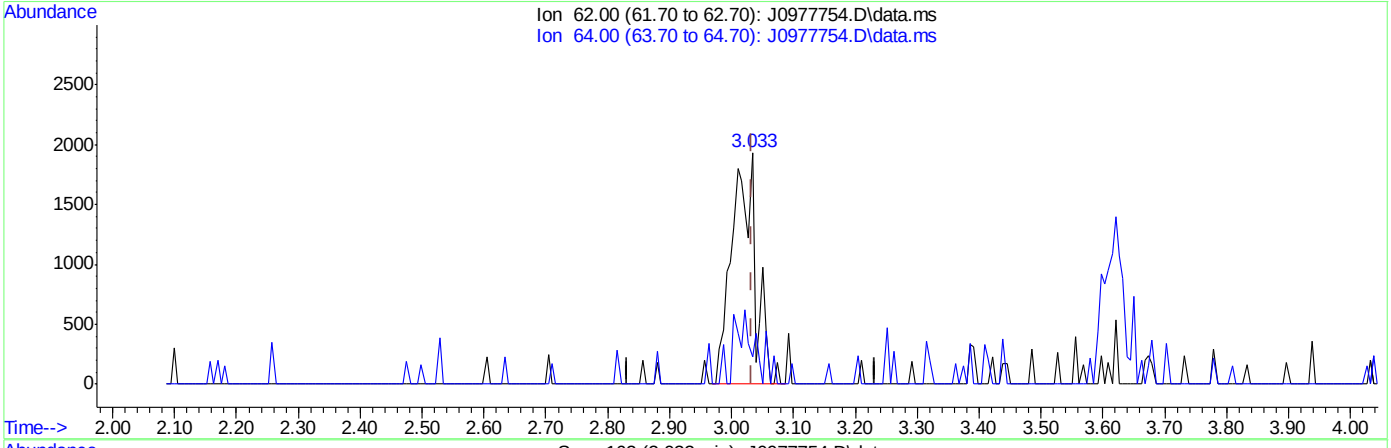
Ion	Exp%	Act%
62.00	100	100
64.00	34.40	11.99
0.00	0.00	0.00
0.00	0.00	0.00

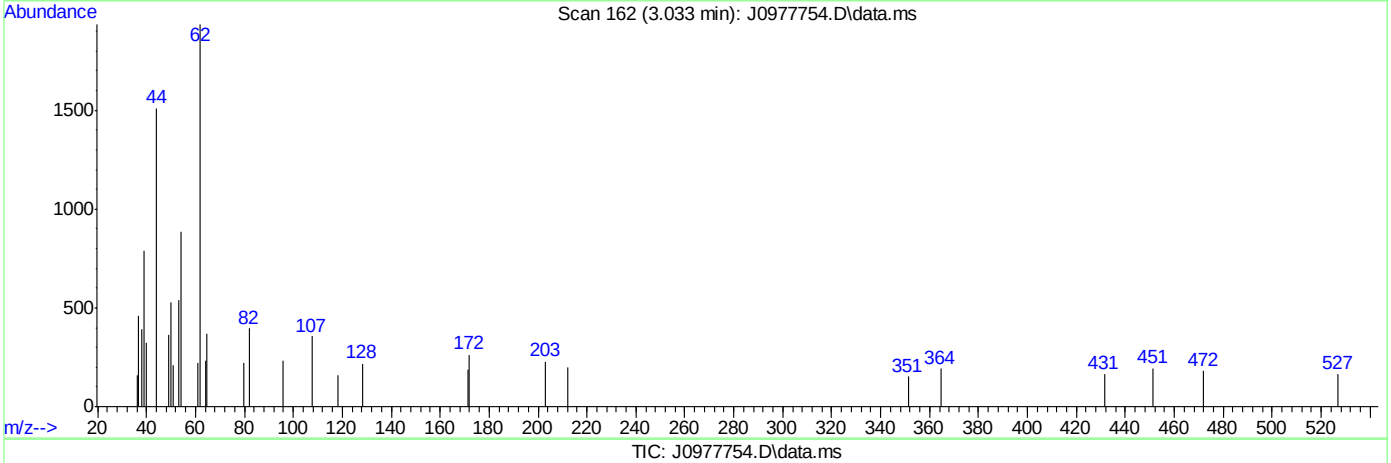
SGS ACCUTEST FA34891

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\070116\
Data File : J0977754.D
Acq On : 1 Jul 2016 12:00 pm
Operator : darshnap
Sample : ic5359-1 Inst : MSVOA6
Misc : MS34274,vj5359,,,,,
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jul 01 12:28:50 2016
Quant Method : C:\msdchem\1\methods\MSJ070116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Jul 01 11:37:49 2016
Response via : Initial Calibration





TIC: J0977754.D\data.ms

(4) Vinyl Chloride (C)

3.033min (+0.000) 1.48ug/L m

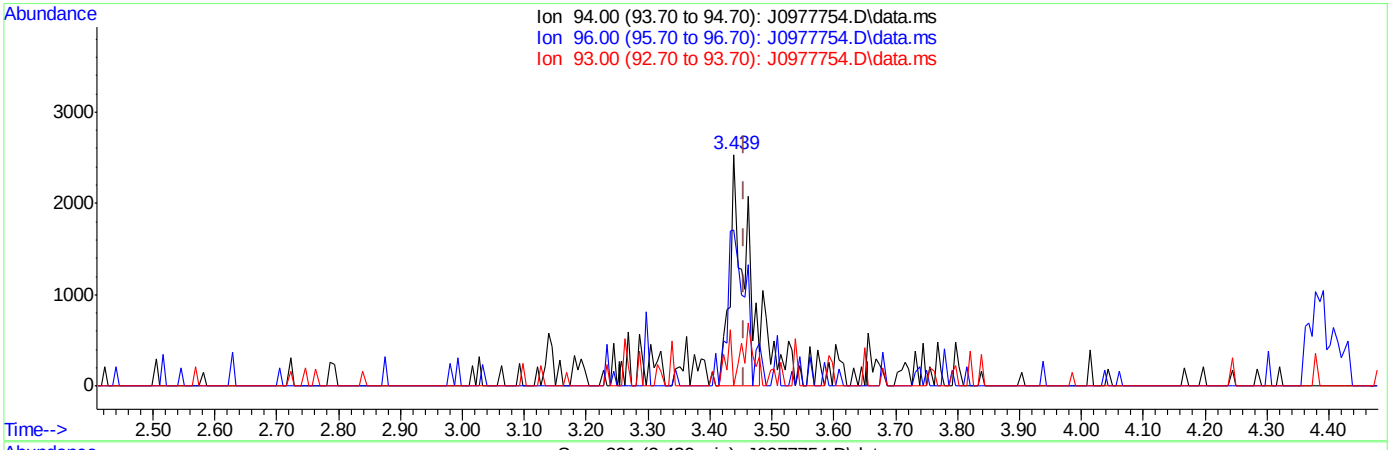
response 5070

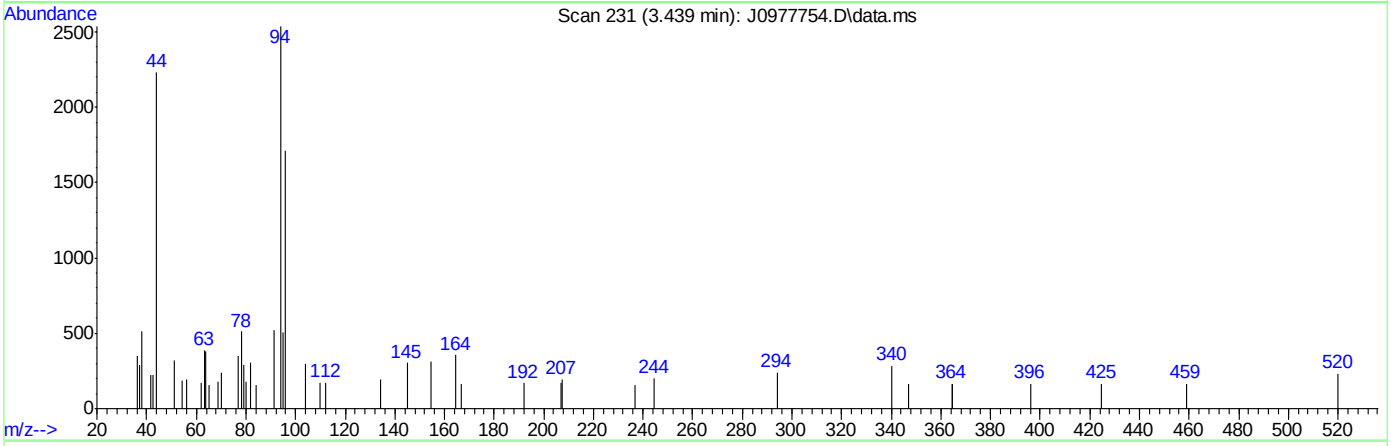
Ion	Exp%	Act%
62.00	100	100
64.00	34.40	11.99
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\070116\
Data File : J0977754.D
Acq On : 1 Jul 2016 12:00 pm
Operator : darshnap
Sample : ic5359-1 Inst : MSVOA6
Misc : MS34274,vj5359,,,,,
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jul 01 12:28:50 2016
Quant Method : C:\msdchem\1\methods\MSJ070116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Jul 01 11:37:49 2016
Response via : Initial Calibration





TIC: J0977754.D\data.ms

(6) Bromomethane ( )

3.439min (-0.018) 1.25ug/L

response 4326

Ion	Exp%	Act%
94.00	100	100
96.00	81.40	53.31
93.00	17.50	0.00
0.00	0.00	0.00

SGS ACCUTEST FA34891

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\070116\
Data File : J0977754.D
Acq On : 1 Jul 2016 12:00 pm
Operator : darshnap
Sample : ic5359-1 Inst : MSVOA6
Misc : MS34274,vj5359,,,,,
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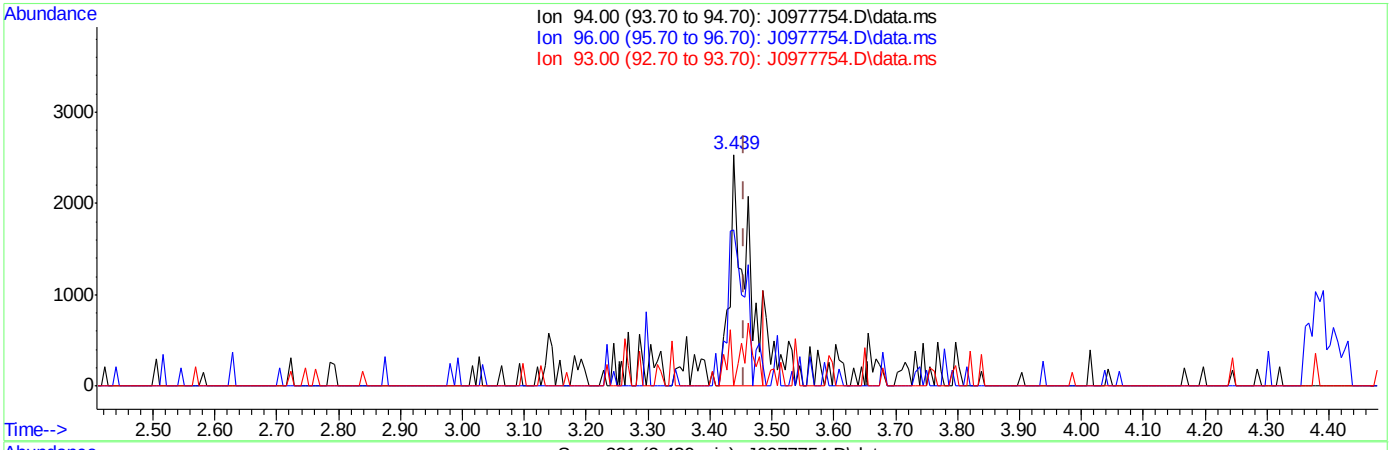

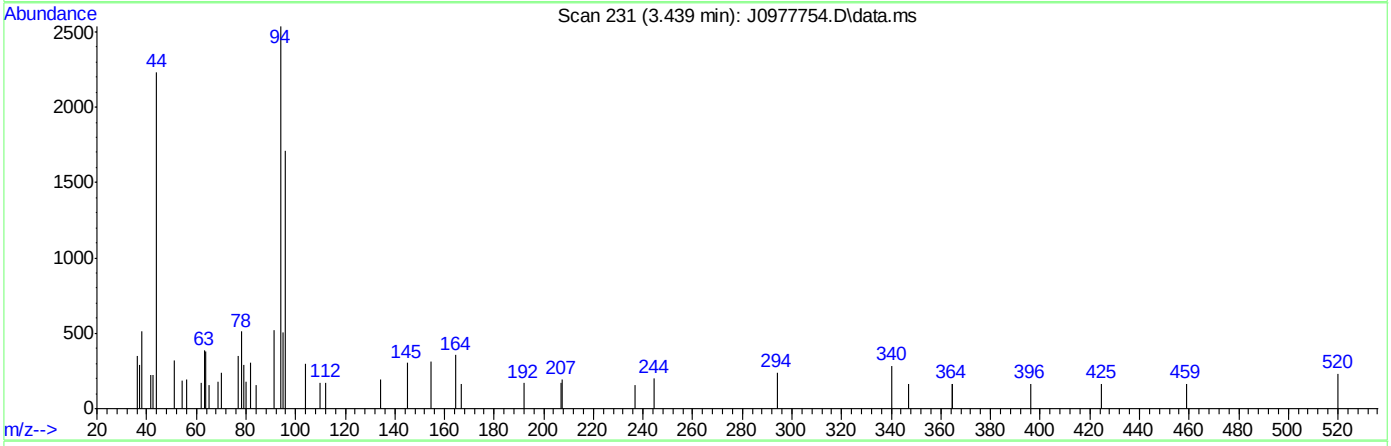

TIC: J0977754.D\data.ms

(6) Bromomethane ( )

3.439min (-0.018) 1.36ug/L m

response 4696

Ion	Exp%	Act%
94.00	100	100
96.00	81.40	67.55
93.00	17.50	0.00
0.00	0.00	0.00

SGS ACCUTEST FA34891

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\070116\
Data File : J0977754.D
Acq On : 1 Jul 2016 12:00 pm
Operator : darshnap
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Misc : MS34274,vj5359,,,,,
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QLast Update : Fri Jul 01 11:37:49 2016
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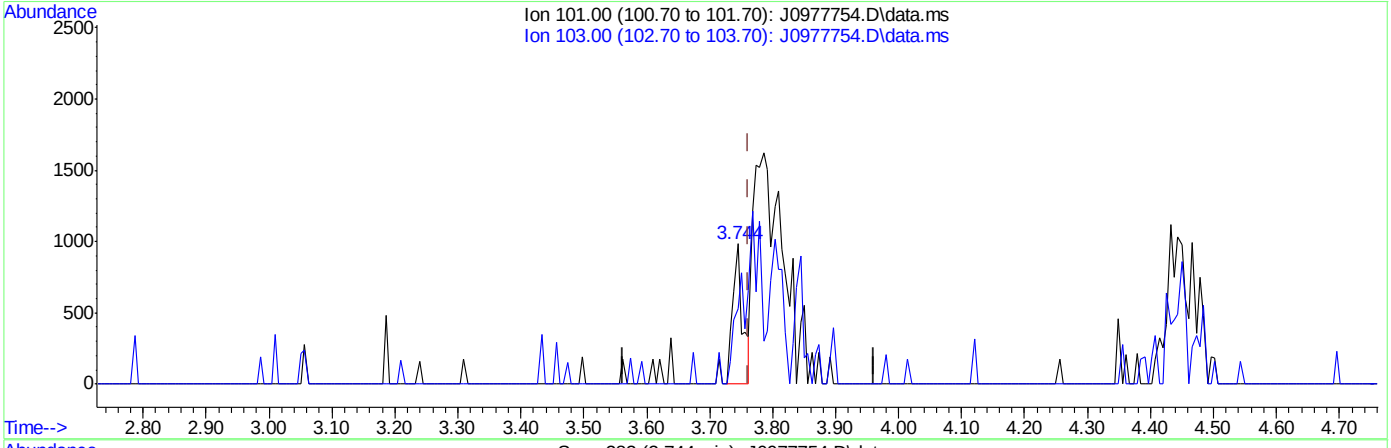

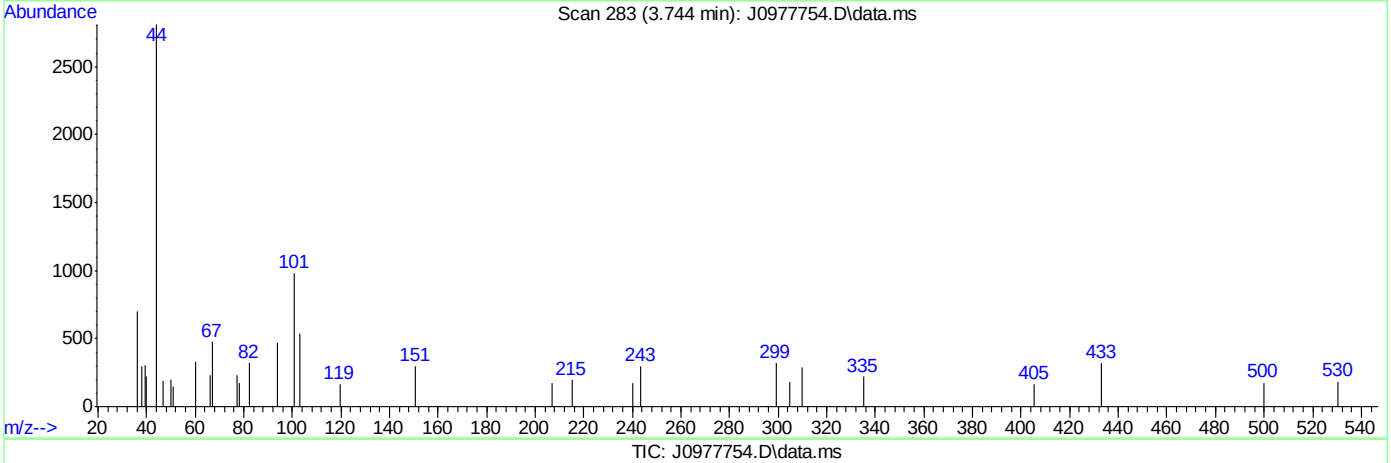

TIC: J0977754.D\data.ms

(8) Trichlorofluoromethane ( )

3.744min (-0.018) 0.17ug/L

response 1074

Ion	Exp%	Act%
101.00	100	100
103.00	67.00	54.18
0.00	0.00	0.00
0.00	0.00	0.00

SGS ACCUTEST FA34891

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\070116\
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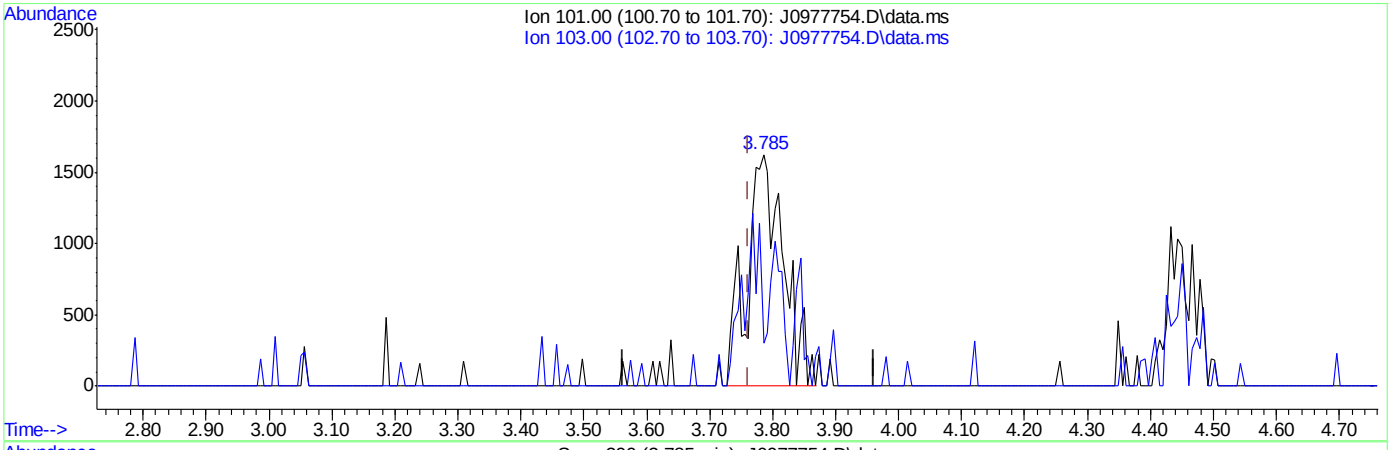

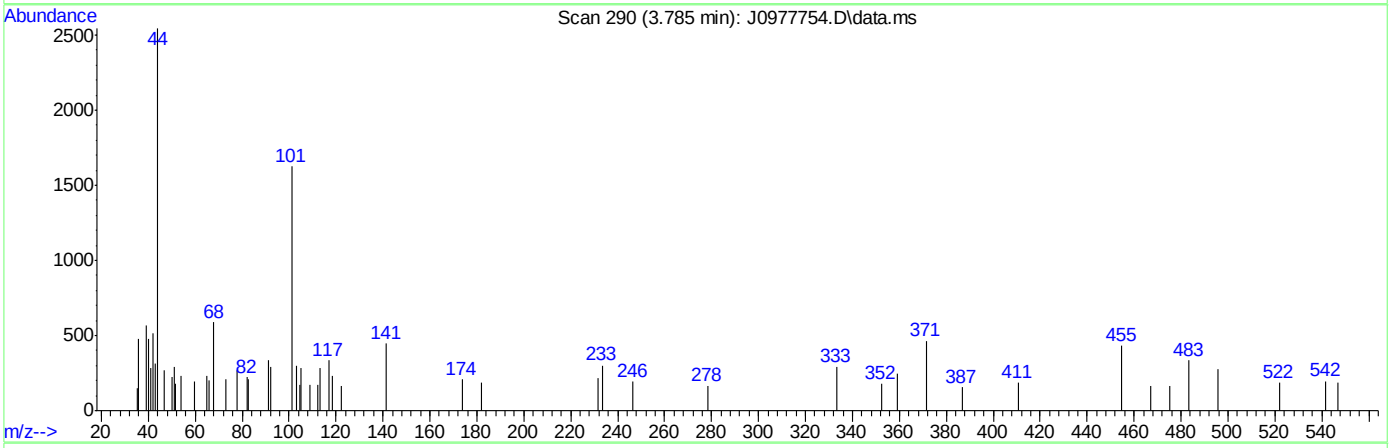

TIC: J0977754.D\data.ms

(8) Trichlorofluoromethane ( )

3.785min (+0.024) 1.05ug/L m

response 6478

Ion	Exp%	Act%
101.00	100	100
103.00	67.00	18.46#
0.00	0.00	0.00
0.00	0.00	0.00

SGS ACCUTEST FA34891

Quantitation Report (Qedit)

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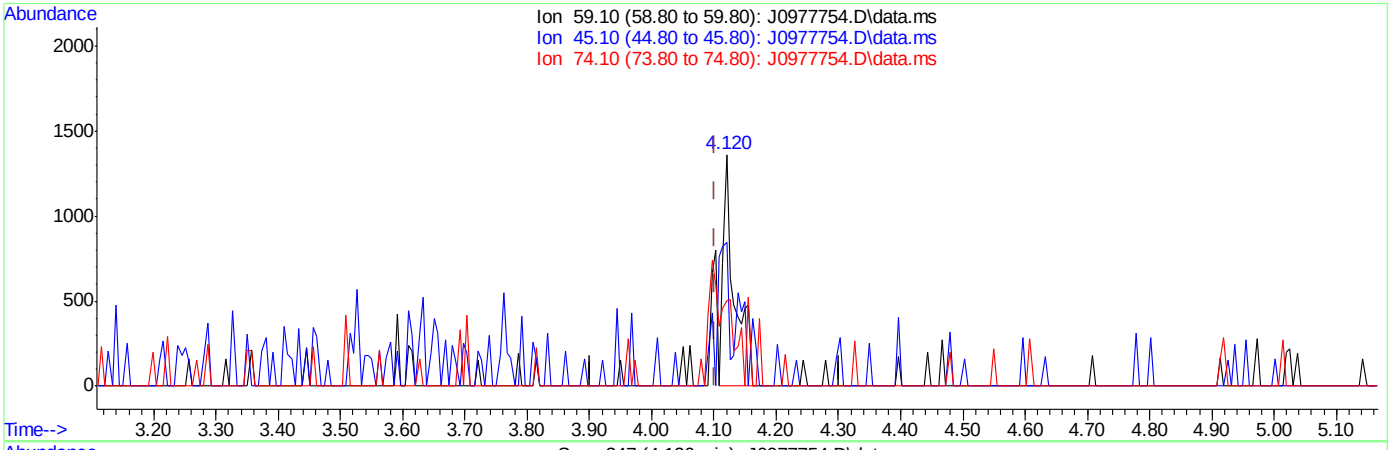

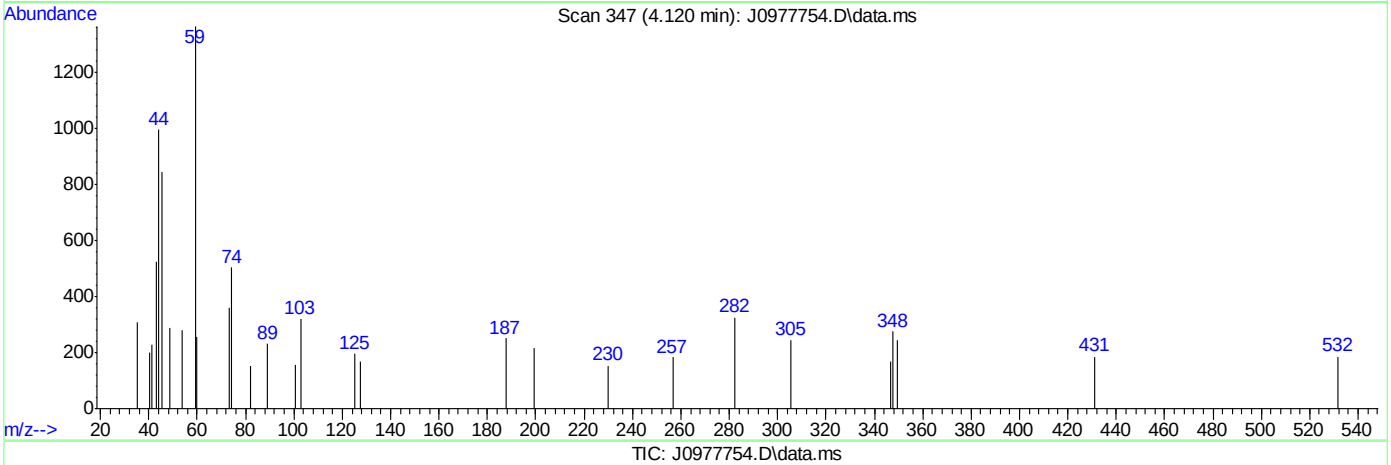

TIC: J0977754.D\data.ms

(9) Ethyl Ether

4.120min (+0.018) 0.85ug/L

response 1725

Ion	Exp%	Act%
59.10	100	100
45.10	54.90	45.15
74.10	59.50	36.86#
0.00	0.00	0.00

SGS ACCUTEST FA34891

Quantitation Report (Qedit)

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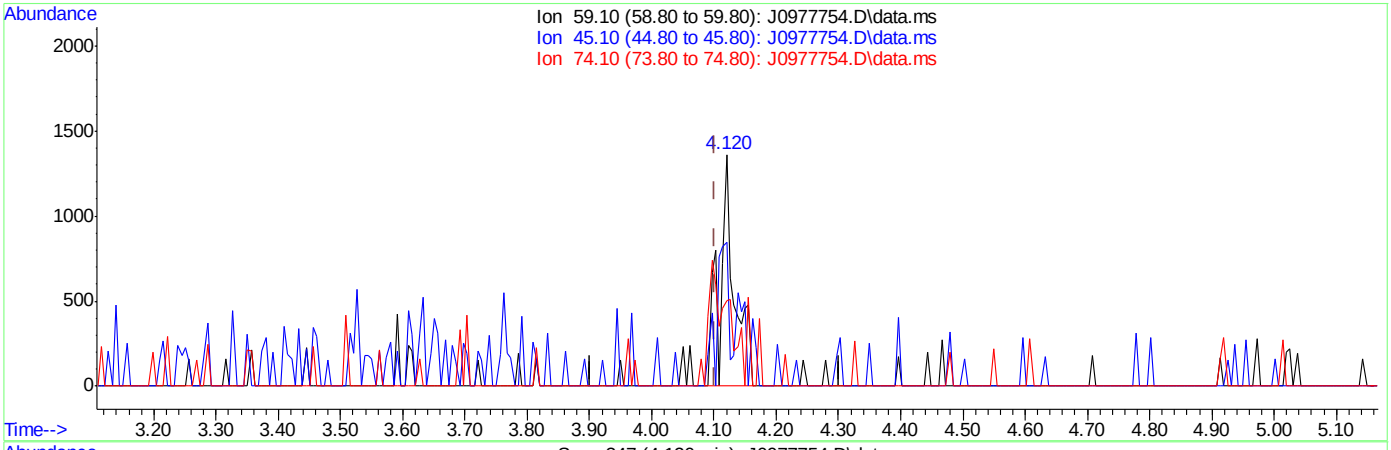
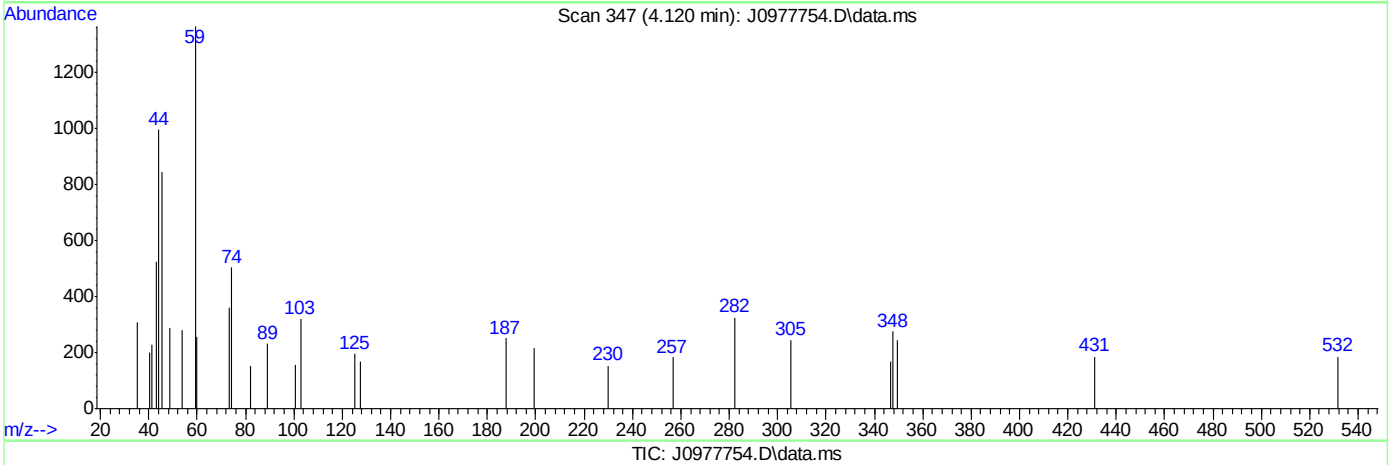
Quant Time: Jul 01 12:28:50 2016
Quant Method : C:\msdchem\1\methods\MSJ070116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Jul 01 11:37:49 2016
Response via : Initial Calibration





TIC: J0977754.D\data.ms

(9) Ethyl Ether

4.120min (+0.018) 1.11ug/L m

response 2245

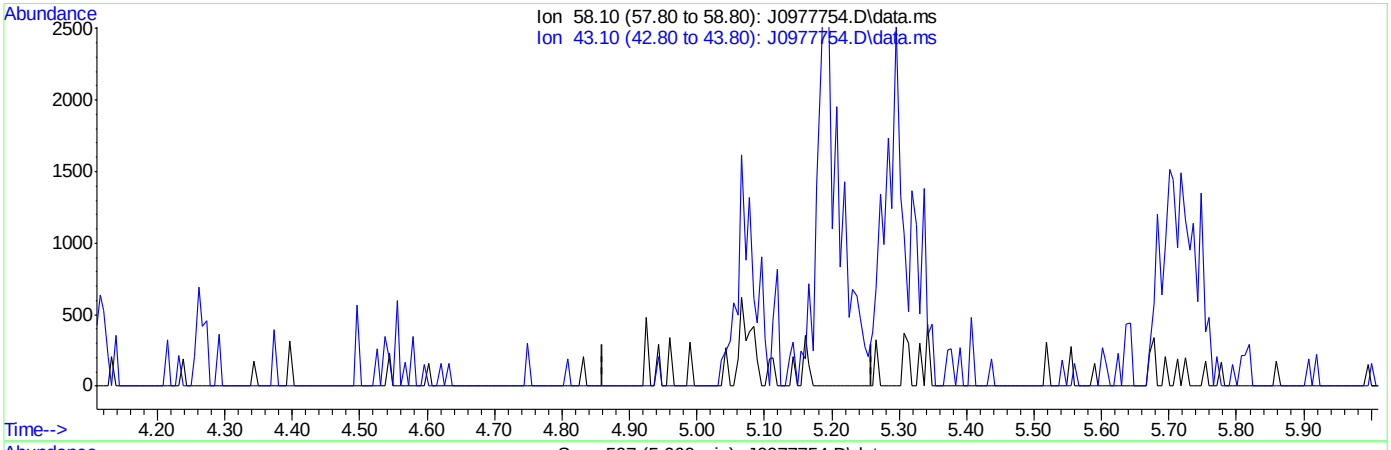
Ion	Exp%	Act%
59.10	100	100
45.10	54.90	61.97
74.10	59.50	36.86#
0.00	0.00	0.00

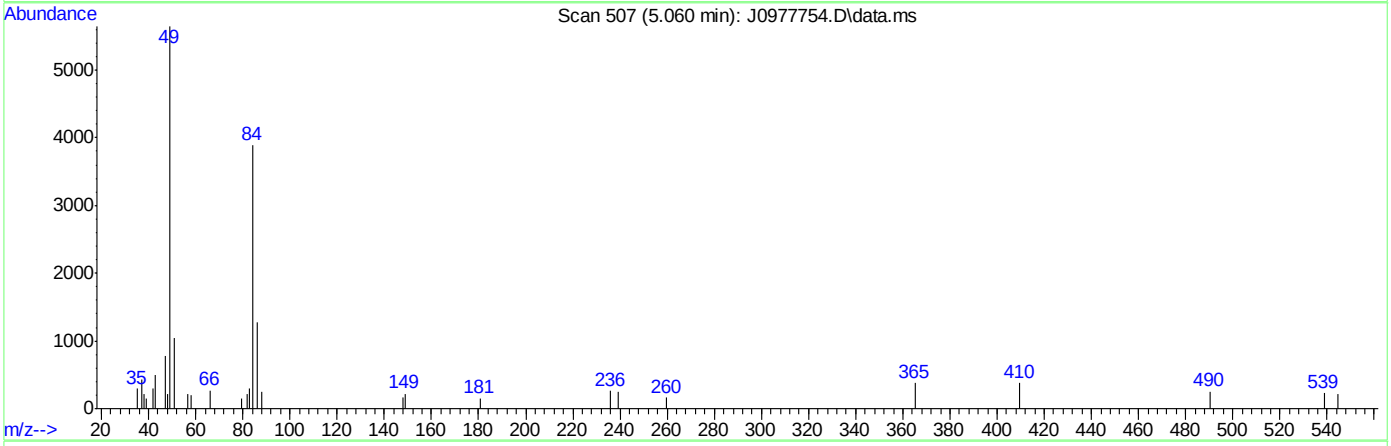
SGS ACCUTEST FA34891

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\070116\
Data File : J0977754.D
Acq On : 1 Jul 2016 12:00 pm
Operator : darshnap
Sample : ic5359-1 Inst : MSVOA6
Misc : MS34274,vj5359,,,,,
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jul 01 12:28:50 2016
Quant Method : C:\msdchem\1\methods\MSJ070116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Jul 01 11:37:49 2016
Response via : Initial Calibration





TIC: J0977754.D\data.ms

(17) Acetone

5.060min (-5.060) 0.00ug/L

response 0

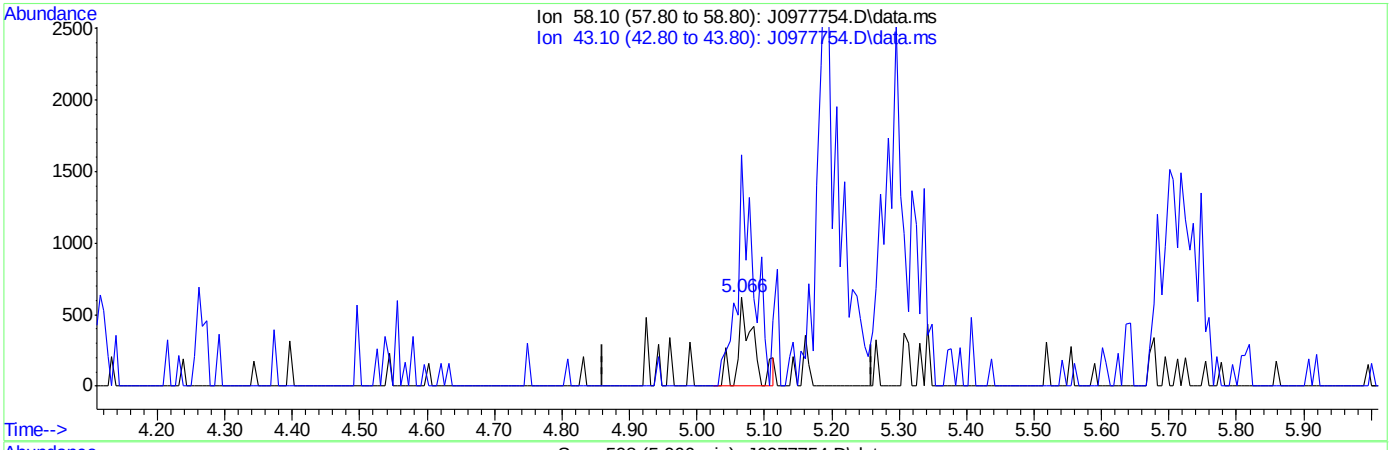
Ion	Exp%	Act%
58.10	100	0.00
43.10	269.20	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

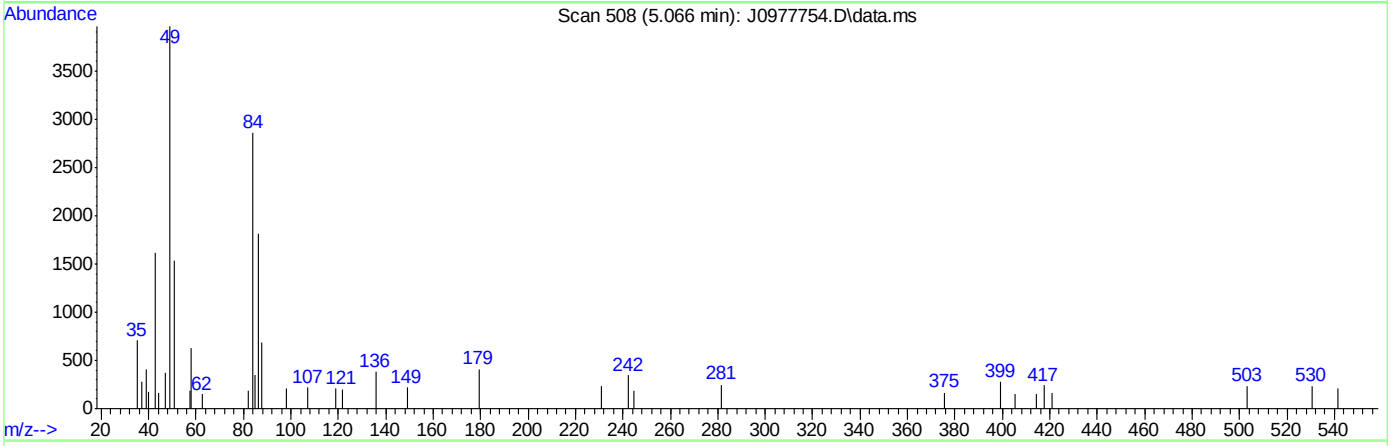
SGS ACCUTEST FA34891

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\070116\
Data File : J0977754.D
Acq On : 1 Jul 2016 12:00 pm
Operator : darshnap
Sample : ic5359-1 Inst : MSVOA6
Misc : MS34274,vj5359,,,,,
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jul 01 12:28:50 2016
Quant Method : C:\msdchem\1\methods\MSJ070116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Jul 01 11:37:49 2016
Response via : Initial Calibration





TIC: J0977754.D\data.ms

(17) Acetone

5.066min (+0.006) 6.83ug/L m

response 978

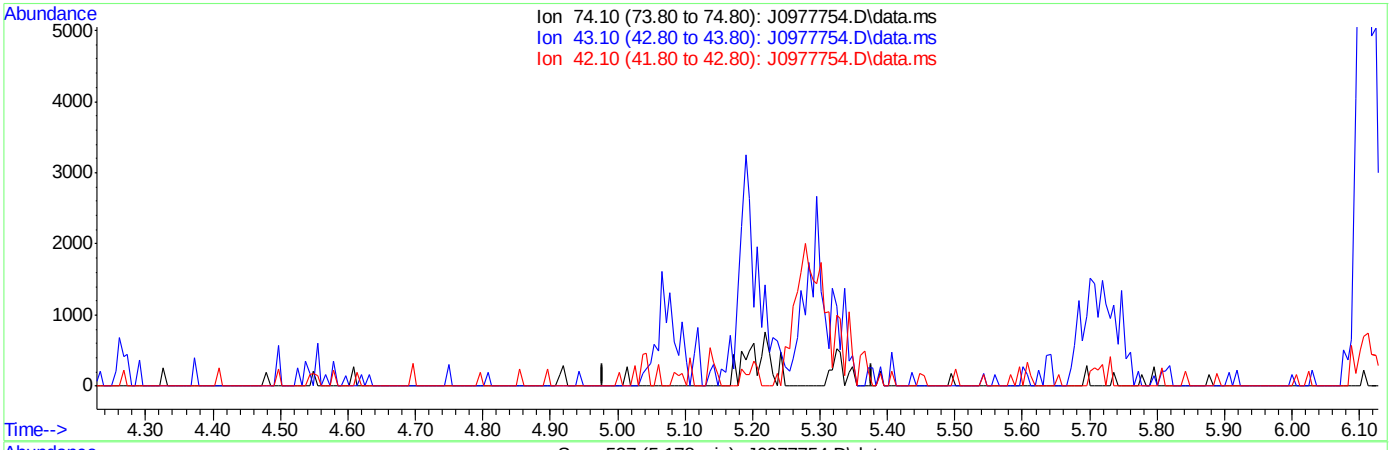
Ion	Exp%	Act%
58.10	100	100
43.10	269.20	259.20
0.00	0.00	0.00
0.00	0.00	0.00

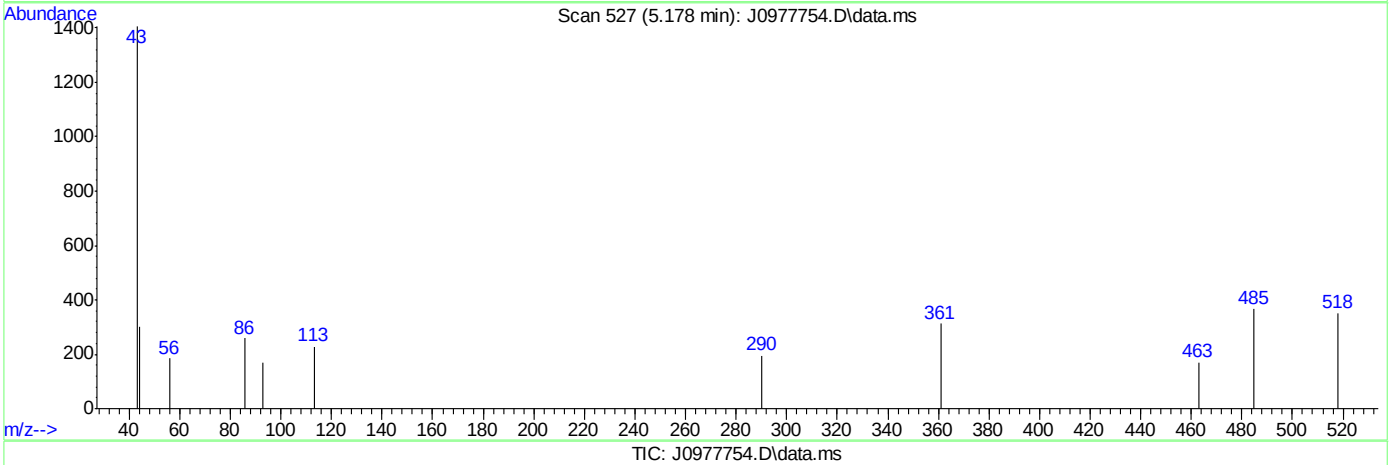
SGS ACCUTEST FA34891

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\070116\
Data File : J0977754.D
Acq On : 1 Jul 2016 12:00 pm
Operator : darshnap
Sample : ic5359-1 Inst : MSVOA6
Misc : MS34274,vj5359,,,,,
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jul 01 12:28:50 2016
Quant Method : C:\msdchem\1\methods\MSJ070116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Jul 01 11:37:49 2016
Response via : Initial Calibration





TIC: J0977754.D\data.ms

(18) Methyl acetate

5.178min (-5.178) 0.00ug/L

response 0

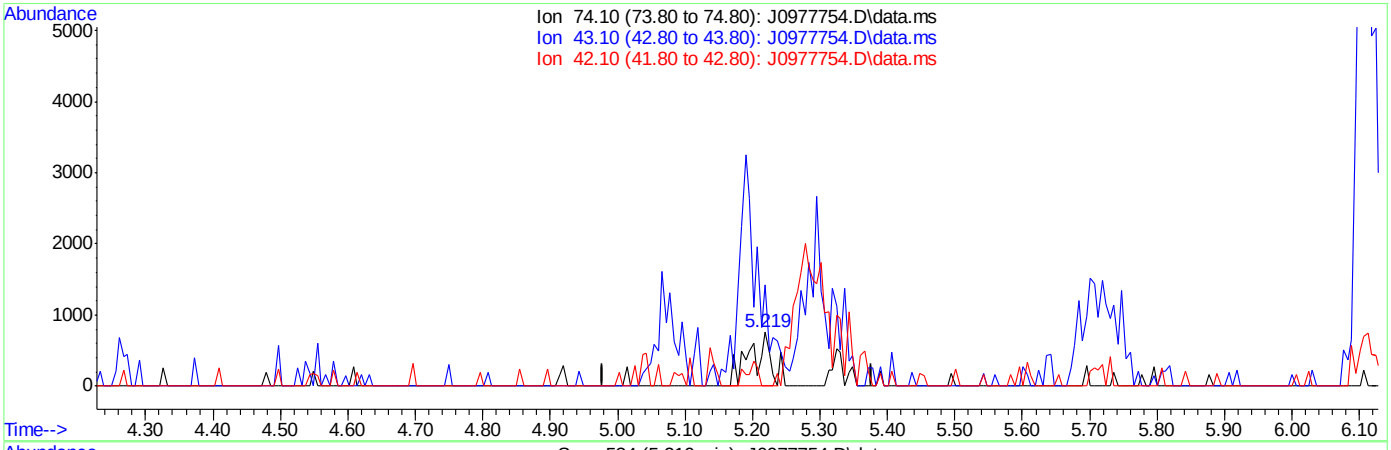
Ion	Exp%	Act%
74.10	100	0.00
43.10	435.50	0.00#
42.10	46.80	0.00#
0.00	0.00	0.00

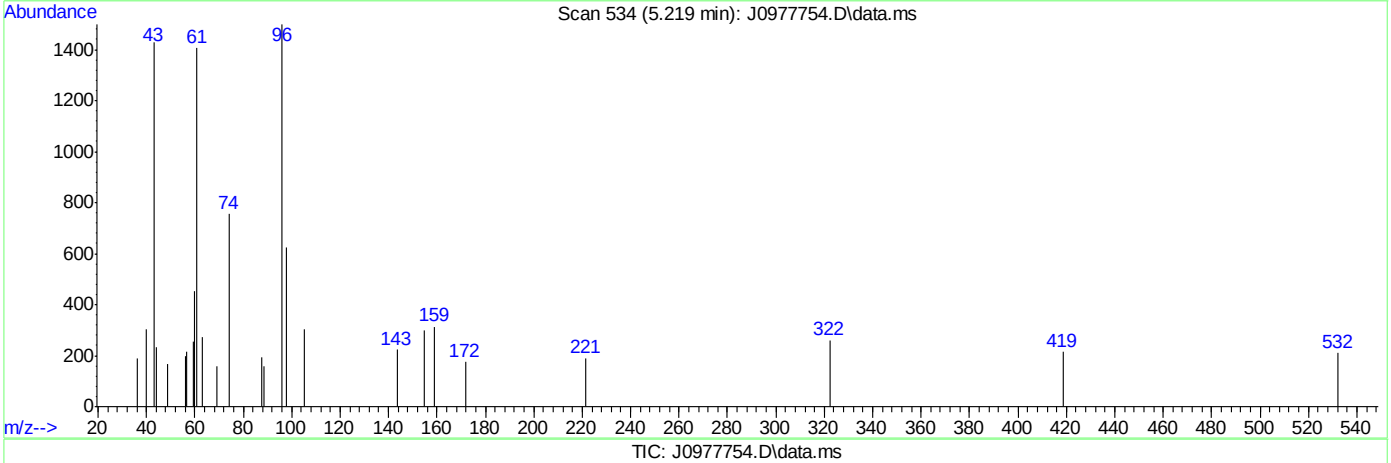
SGS ACCUTEST FA34891

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\070116\
Data File : J0977754.D
Acq On : 1 Jul 2016 12:00 pm
Operator : darshnap
Sample : ic5359-1 Inst : MSVOA6
Misc : MS34274,vj5359,,,,,
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jul 01 12:28:50 2016
Quant Method : C:\msdchem\1\methods\MSJ070116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Jul 01 11:37:49 2016
Response via : Initial Calibration





TIC: J0977754.D\data.ms

(18) Methyl acetate

5.219min (+0.041) 5.93ug/L m

response 1535

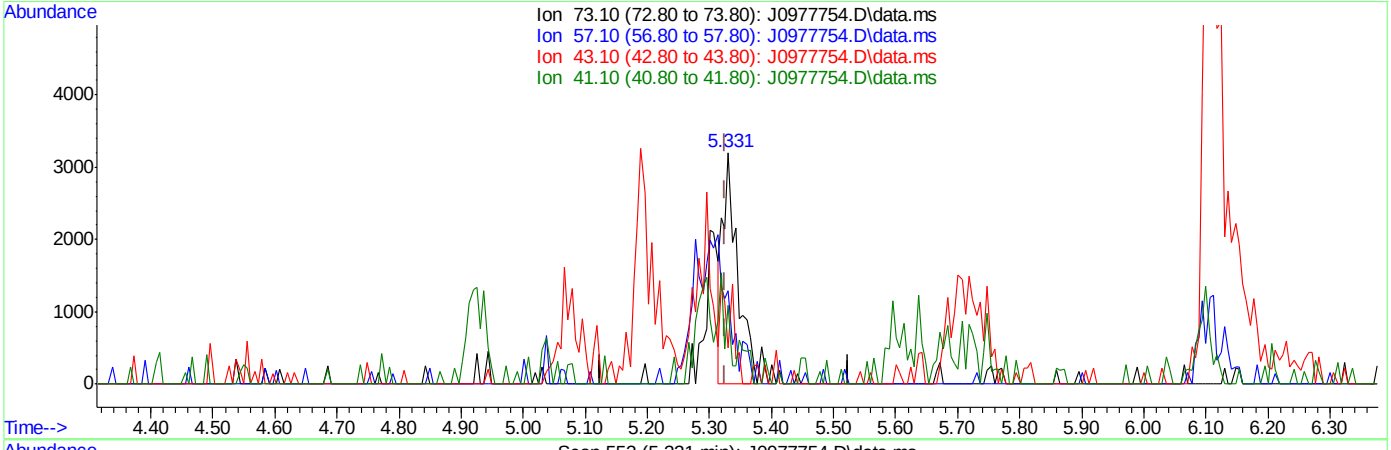
Ion	Exp%	Act%
74.10	100	100
43.10	435.50	189.54#
42.10	46.80	0.00#
0.00	0.00	0.00

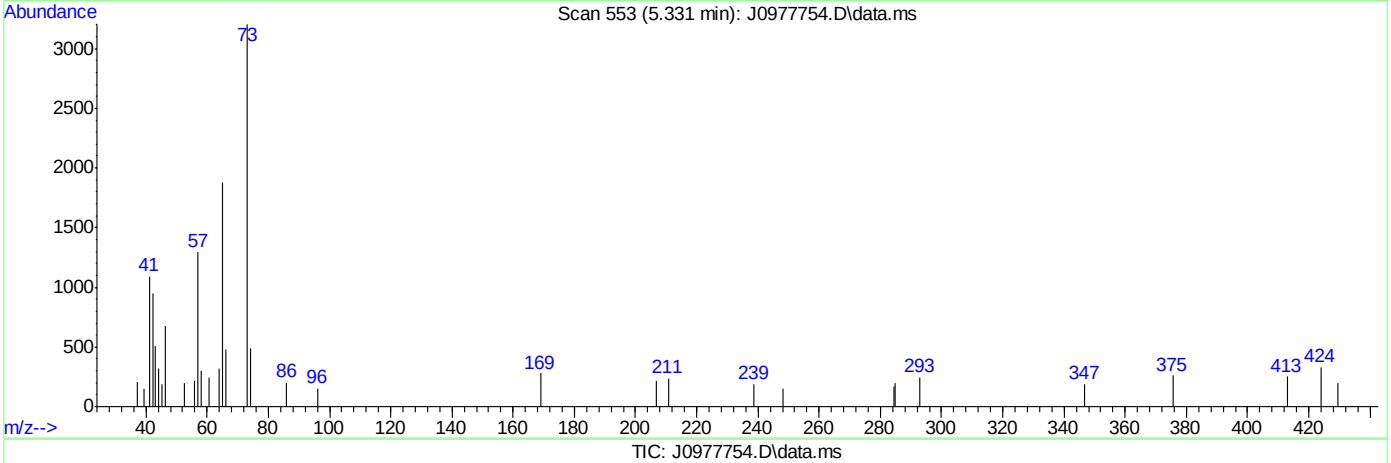
SGS ACCUTEST FA34891

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\070116\
Data File : J0977754.D
Acq On : 1 Jul 2016 12:00 pm
Operator : darshnap
Sample : ic5359-1 Inst : MSVOA6
Misc : MS34274,vj5359,,,,,
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jul 01 12:28:50 2016
Quant Method : C:\msdchem\1\methods\MSJ070116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Jul 01 11:37:49 2016
Response via : Initial Calibration





TIC: J0977754.D\data.ms

(21) Methyl Tert Butyl Ether ( )

5.331min (+0.006) 0.96ug/L

response 5436

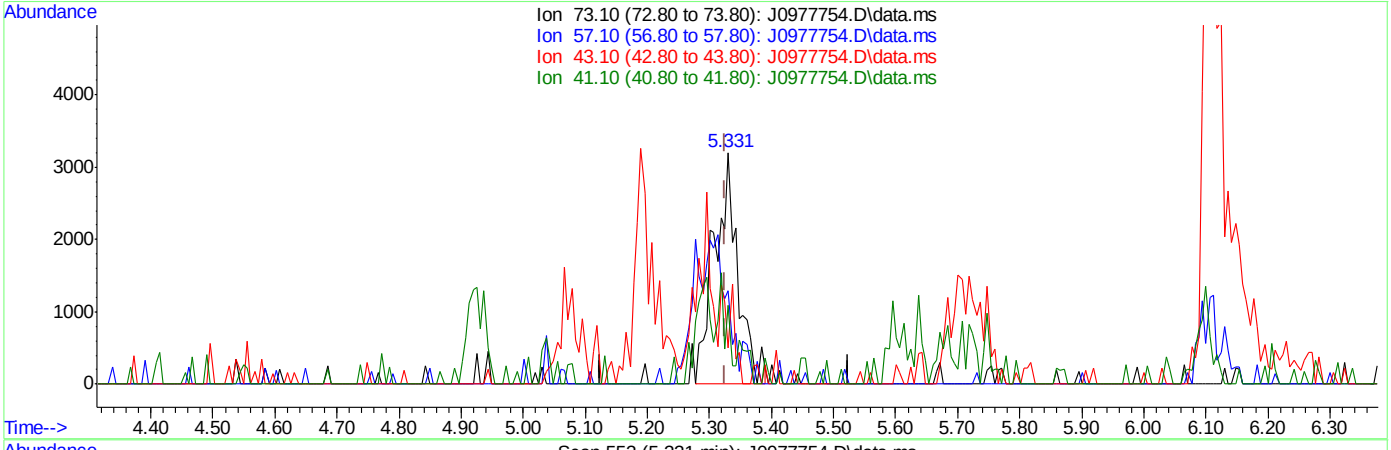
Ion	Exp%	Act%
73.10	100	100
57.10	33.10	30.66
43.10	24.60	7.56
41.10	29.50	34.16

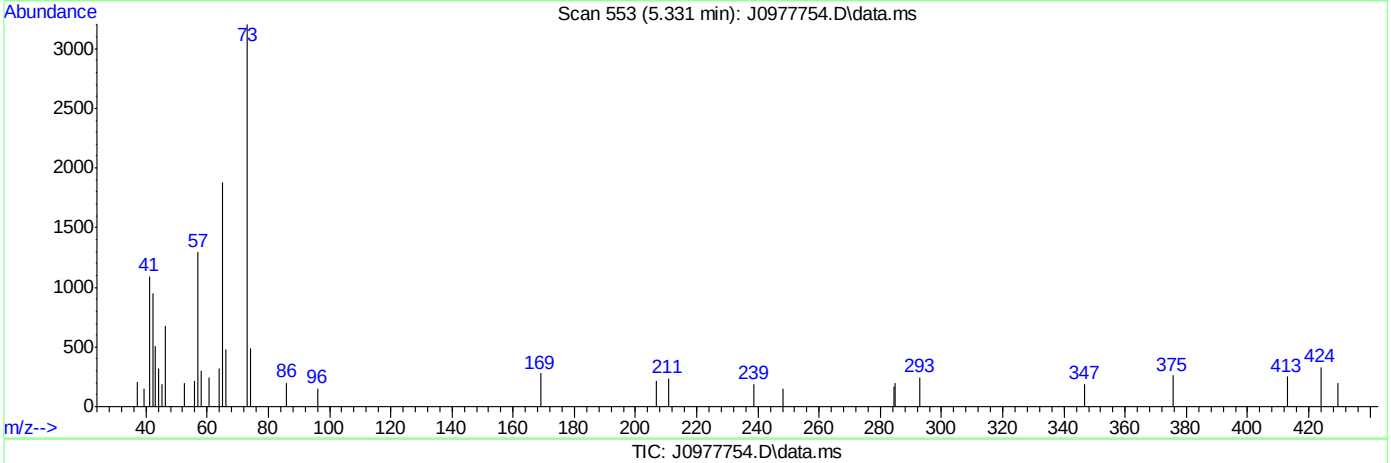
SGS ACCUTEST FA34891

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\070116\
Data File : J0977754.D
Acq On : 1 Jul 2016 12:00 pm
Operator : darshnap
Sample : ic5359-1 Inst : MSVOA6
Misc : MS34274,vj5359,,,,,
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jul 01 12:28:50 2016
Quant Method : C:\msdchem\1\methods\MSJ070116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Jul 01 11:37:49 2016
Response via : Initial Calibration





TIC: J0977754.D\data.ms

(21) Methyl Tert Butyl Ether ( )

5.331min (+0.006) 1.49ug/L m

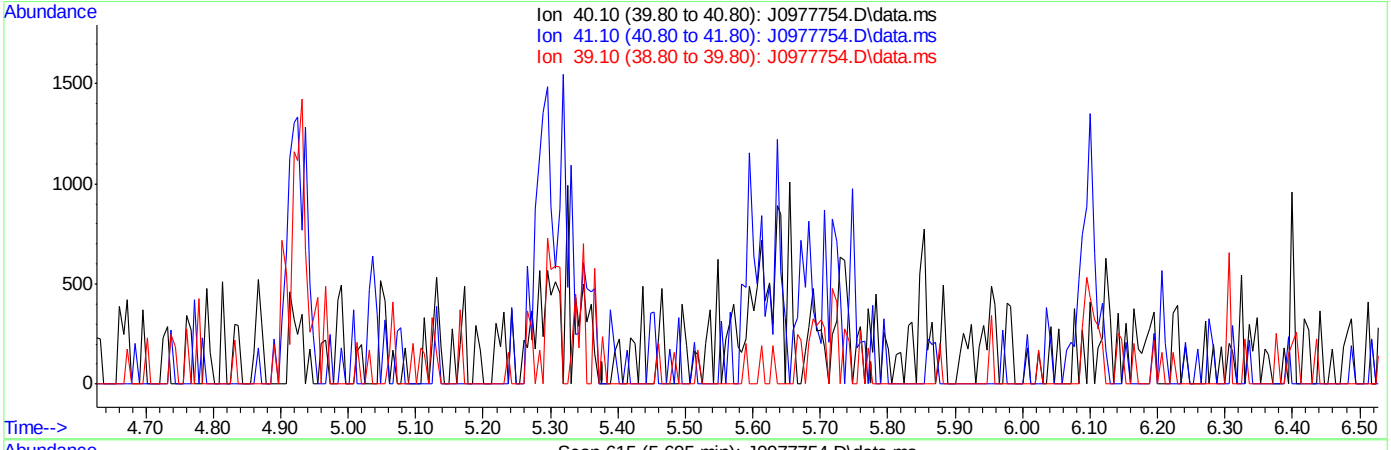
response 8472

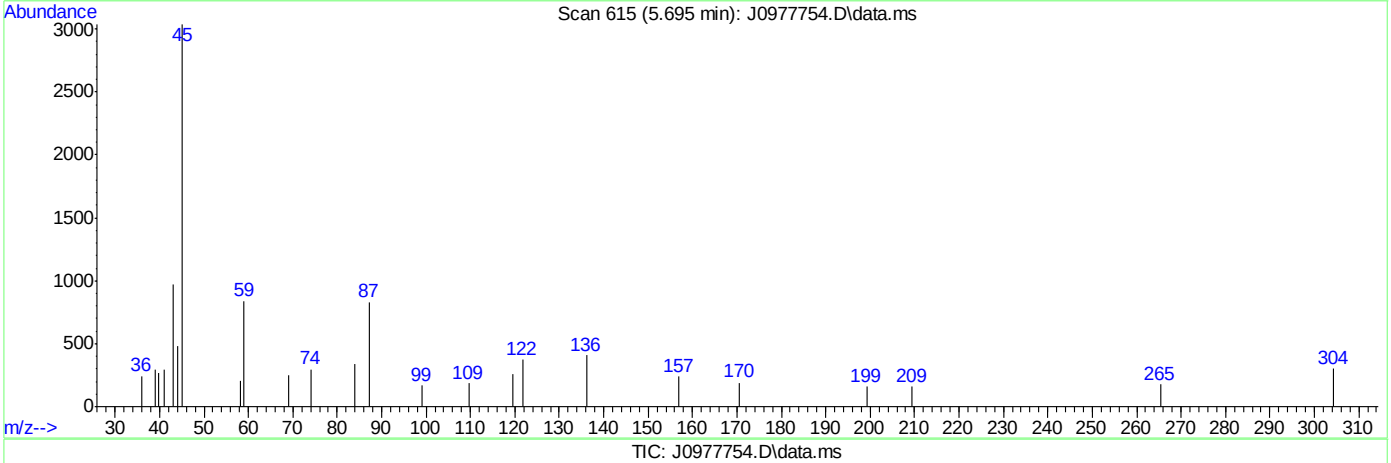
Ion	Exp%	Act%
73.10	100	100
57.10	33.10	40.43
43.10	24.60	15.83
41.10	29.50	34.16

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\070116\
Data File : J0977754.D
Acq On : 1 Jul 2016 12:00 pm
Operator : darshnap
Sample : ic5359-1 Inst : MSVOA6
Misc : MS34274,vj5359,,,,,
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jul 01 12:28:50 2016
Quant Method : C:\msdchem\1\methods\MSJ070116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Jul 01 11:37:49 2016
Response via : Initial Calibration





TIC: J0977754.D\data.ms

(22) Acetonitrile

5.577min (-5.577) 0.00ug/L

response 0

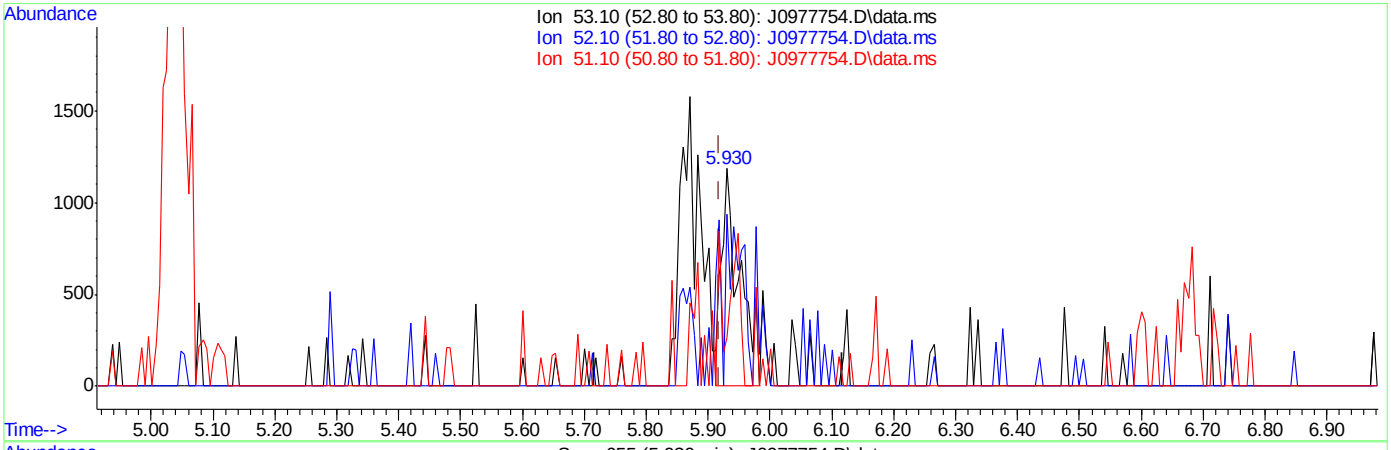
Ion	Exp%	Act%
40.10	100	0.00
41.10	170.10	0.00#
39.10	32.80	0.00#
0.00	0.00	0.00

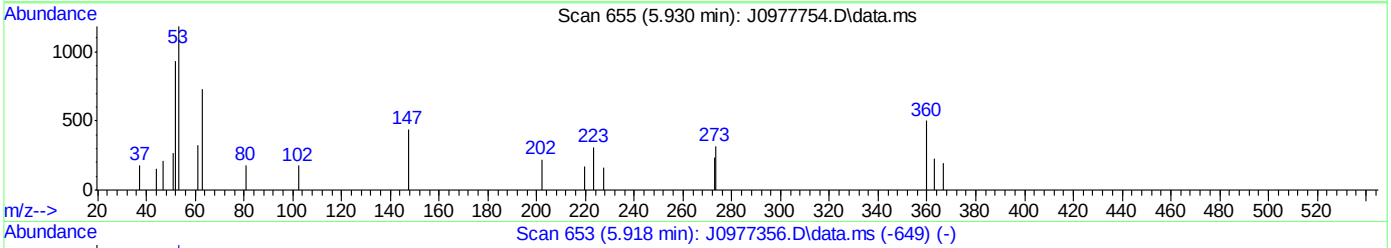
SGS ACCUTEST FA34891

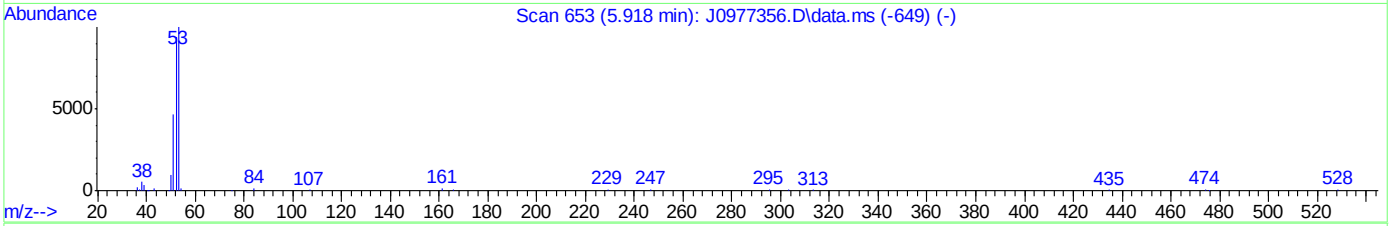
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\070116\
Data File : J0977754.D
Acq On : 1 Jul 2016 12:00 pm
Operator : darshnap
Sample : ic5359-1 Inst : MSVOA6
Misc : MS34274,vj5359,,,,,
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jul 01 12:28:50 2016
Quant Method : C:\msdchem\1\methods\MSJ070116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Jul 01 11:37:49 2016
Response via : Initial Calibration







TIC: J0977754.D\data.ms

(26) Acrylonitrile

5.930min (+0.012) 3.85ug/L

response 2408

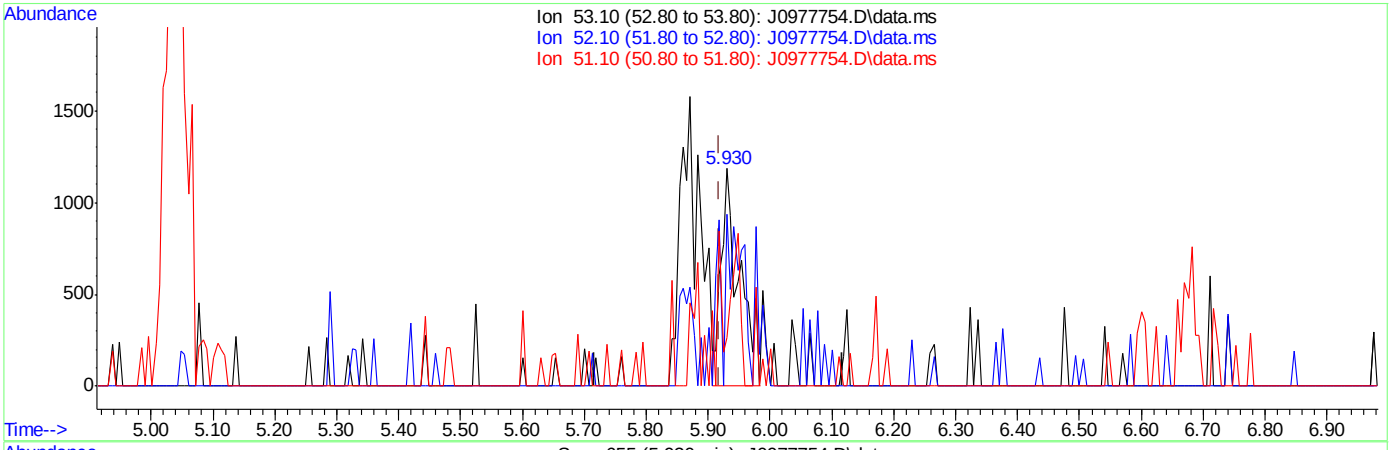
Ion	Exp%	Act%
53.10	100	100
52.10	75.40	64.53
51.10	29.40	22.38
0.00	0.00	0.00

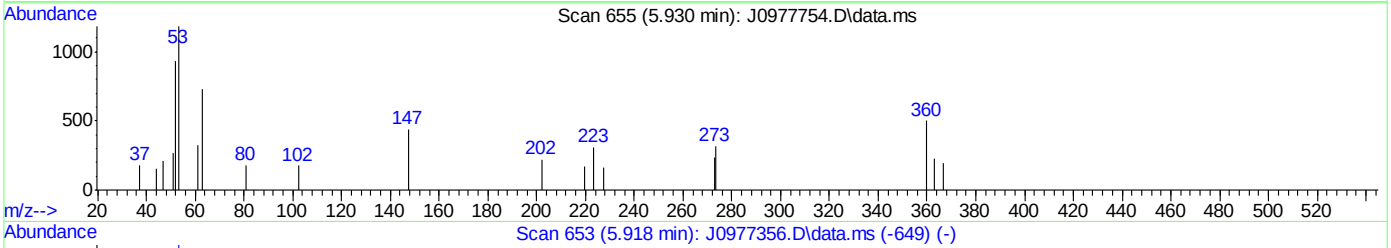
SGS ACCUTEST FA34891

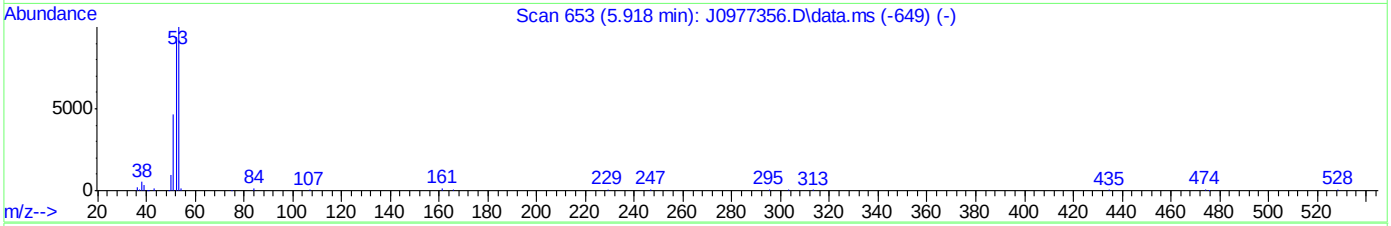
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\070116\
Data File : J0977754.D
Acq On : 1 Jul 2016 12:00 pm
Operator : darshnap
Sample : ic5359-1 Inst : MSVOA6
Misc : MS34274,vj5359,,,,,
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jul 01 12:28:50 2016
Quant Method : C:\msdchem\1\methods\MSJ070116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Jul 01 11:37:49 2016
Response via : Initial Calibration







TIC: J0977754.D\data.ms

(26) Acrylonitrile

5.930min (+0.012) 3.96ug/L m

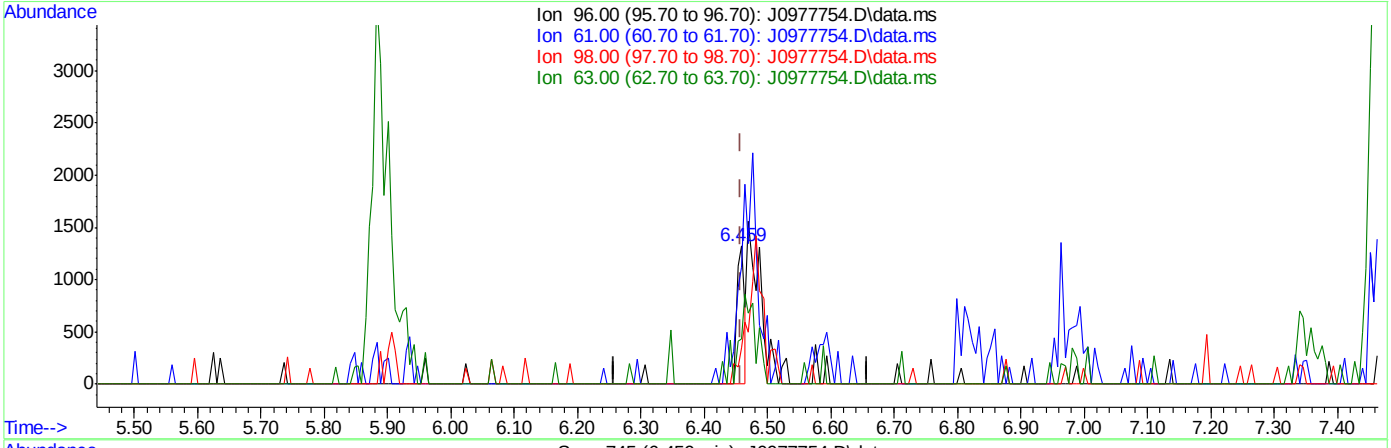
response 2475

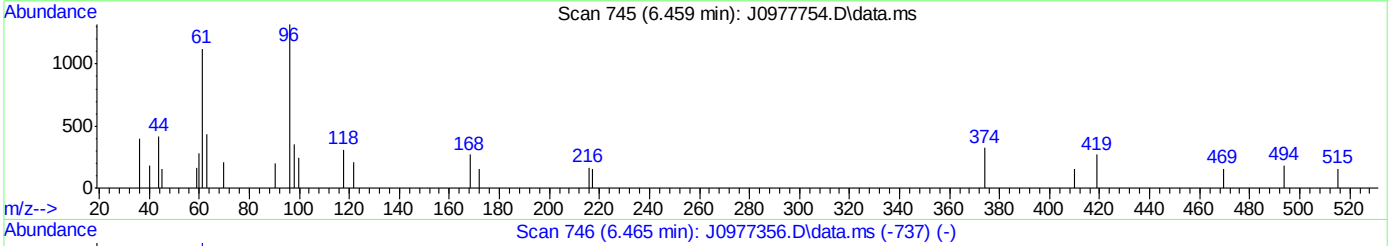
Ion	Exp%	Act%
53.10	100	100
52.10	75.40	78.97
51.10	29.40	22.38
0.00	0.00	0.00

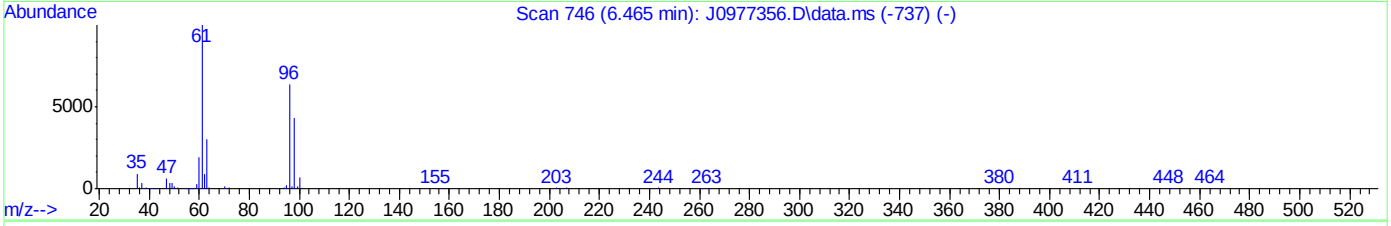
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\070116\
Data File : J0977754.D
Acq On : 1 Jul 2016 12:00 pm
Operator : darshnap
Sample : ic5359-1 Inst : MSVOA6
Misc : MS34274,vj5359,,,,,
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jul 01 12:28:50 2016
Quant Method : C:\msdchem\1\methods\MSJ070116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Jul 01 11:37:49 2016
Response via : Initial Calibration







TIC: J0977754.D\data.ms

(29) cis-1,2-Dichloroethene ( )

6.459min (+0.000) 0.42ug/L

response 1122

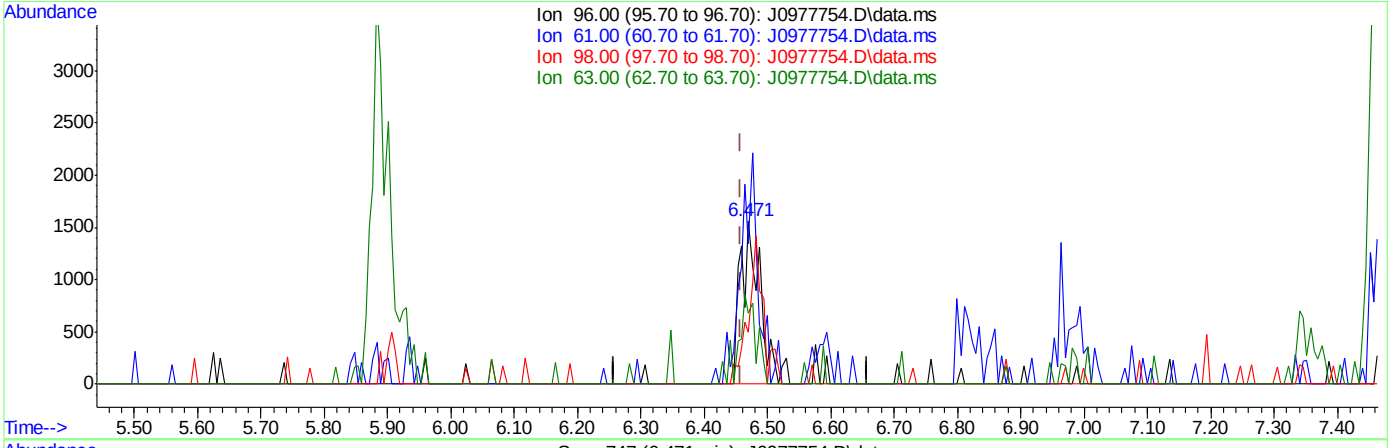
Ion	Exp%	Act%
96.00	100	100
61.00	133.40	72.73#
98.00	64.70	26.67#
63.00	44.40	1.29#

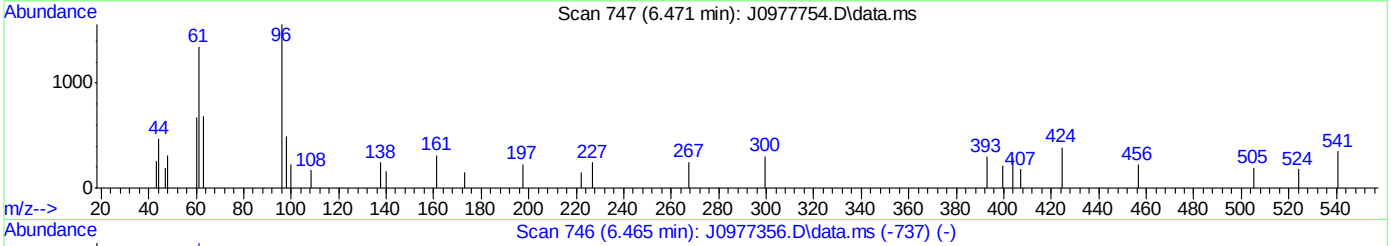
SGS ACCUTEST FA34891

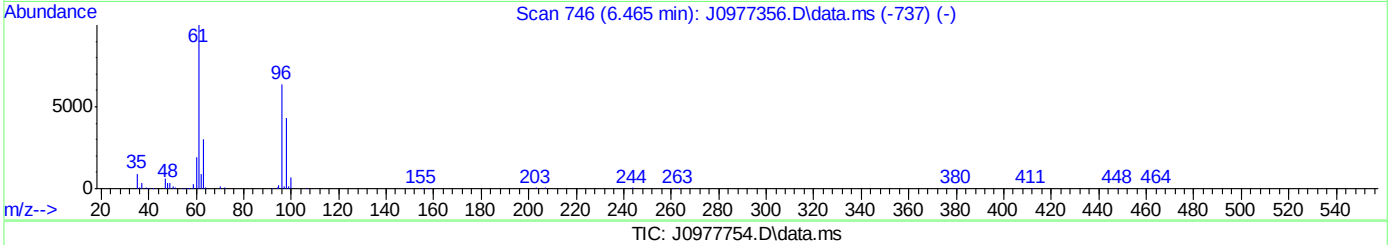
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\070116\
Data File : J0977754.D
Acq On : 1 Jul 2016 12:00 pm
Operator : darshnap
Sample : ic5359-1 Inst : MSVOA6
Misc : MS34274,vj5359,,,,,
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jul 01 12:28:50 2016
Quant Method : C:\msdchem\1\methods\MSJ070116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Jul 01 11:37:49 2016
Response via : Initial Calibration







TIC: J0977754.D\data.ms

(29) cis-1,2-Dichloroethene ( )

6.471min (+0.012) 1.29ug/L m

response 3438

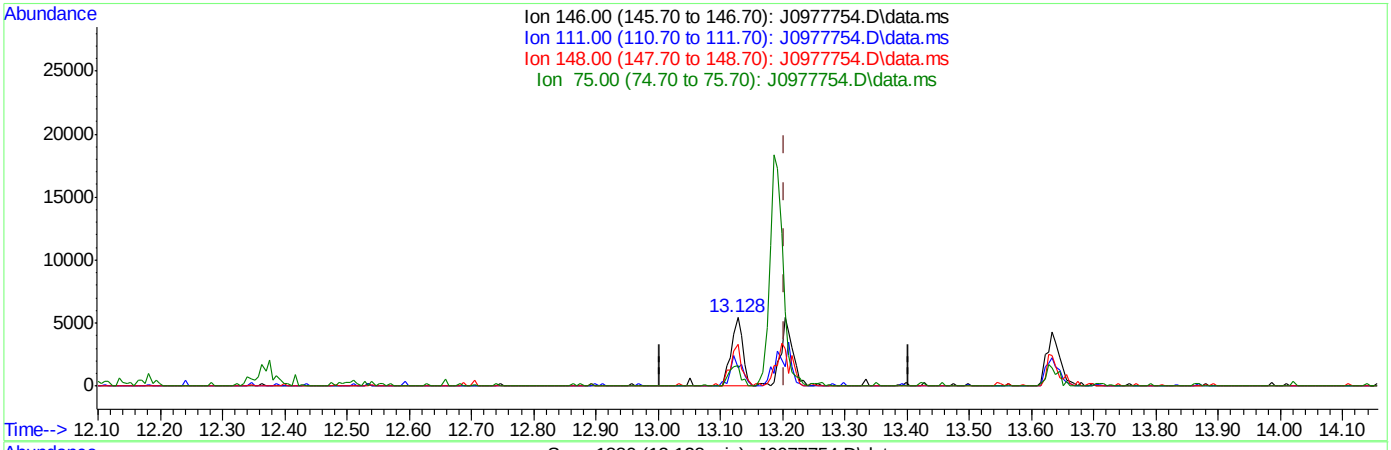
Ion	Exp%	Act%
96.00	100	100
61.00	133.40	86.09#
98.00	64.70	31.67#
63.00	44.40	43.59

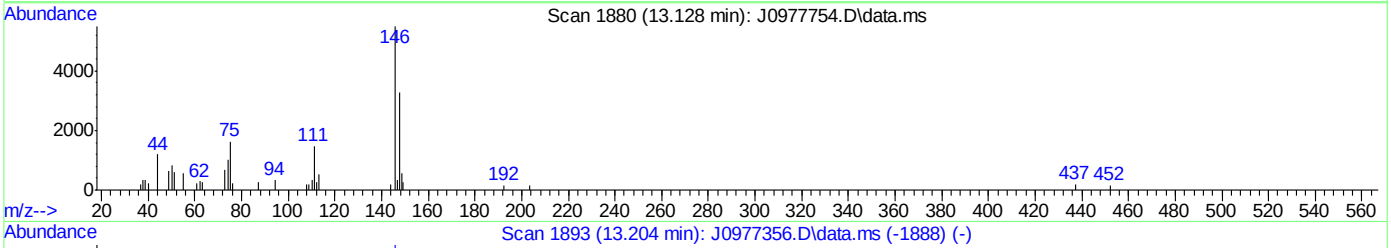
SGS ACCUTEST FA34891

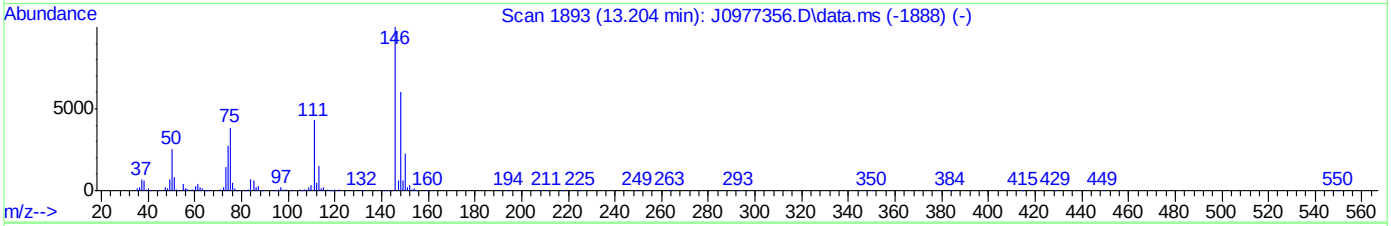
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\070116\
Data File : J0977754.D
Acq On : 1 Jul 2016 12:00 pm
Operator : darshnap
Sample : ic5359-1 Inst : MSVOA6
Misc : MS34274,vj5359,,,,,
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jul 01 12:28:50 2016
Quant Method : C:\msdchem\1\methods\MSJ070116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Jul 01 11:37:49 2016
Response via : Initial Calibration







TIC: J0977754.D\data.ms

(97) 1,4-Dichlorobenzene

13.128min (-0.076) 1.30ug/L

response 6941

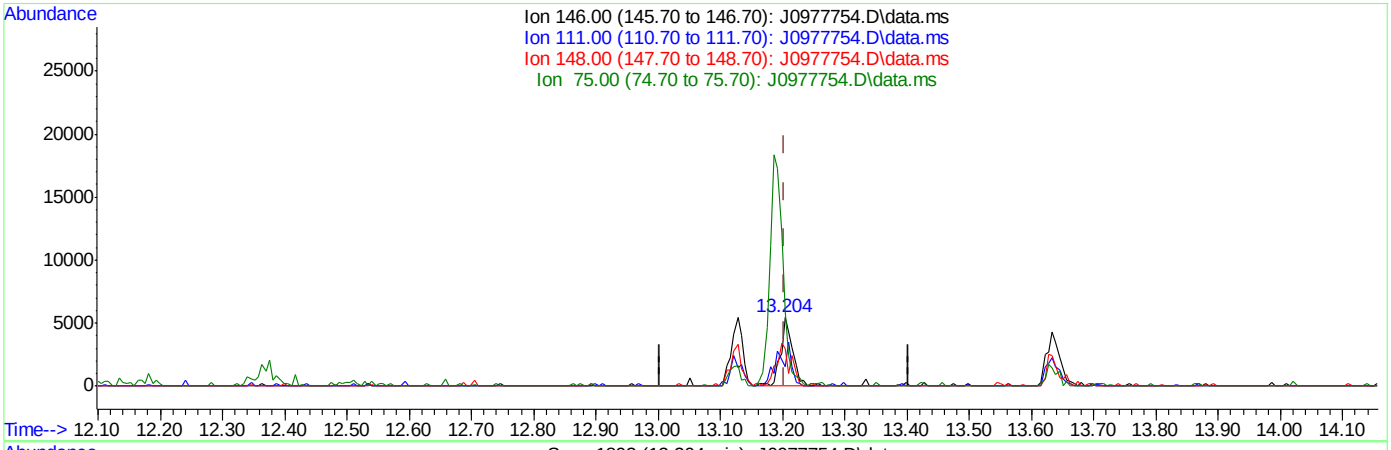
Ion	Exp%	Act%
146.00	100	100
111.00	44.90	26.99
148.00	58.40	59.92
75.00	38.60	29.81

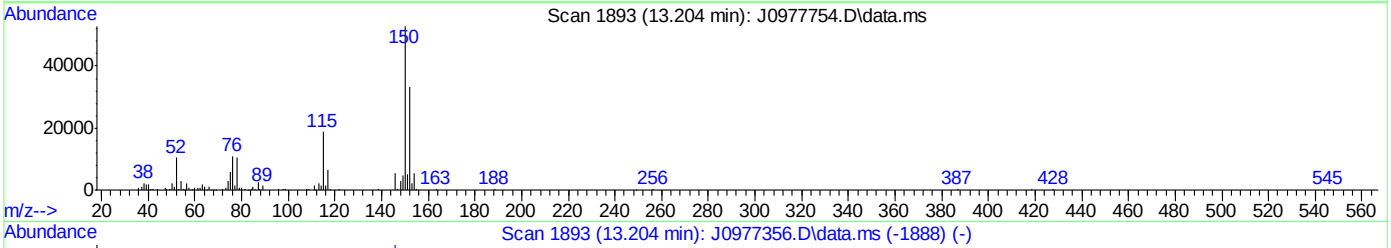
SGS ACCUTEST FA34891

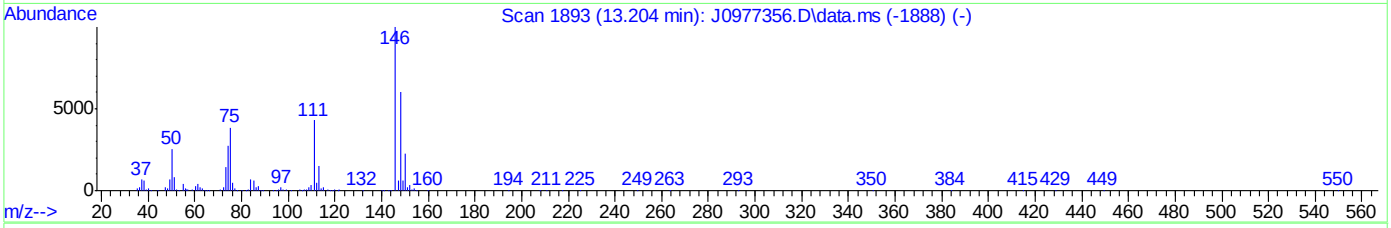
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\070116\
Data File : J0977754.D
Acq On : 1 Jul 2016 12:00 pm
Operator : darshnap
Sample : ic5359-1 Inst : MSVOA6
Misc : MS34274,vj5359,,,,,
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jul 01 12:28:50 2016
Quant Method : C:\msdchem\1\methods\MSJ070116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Jul 01 11:37:49 2016
Response via : Initial Calibration







TIC: J0977754.D\data.ms

(97) 1,4-Dichlorobenzene

13.204min (+0.000) 1.37ug/L m

response 7286

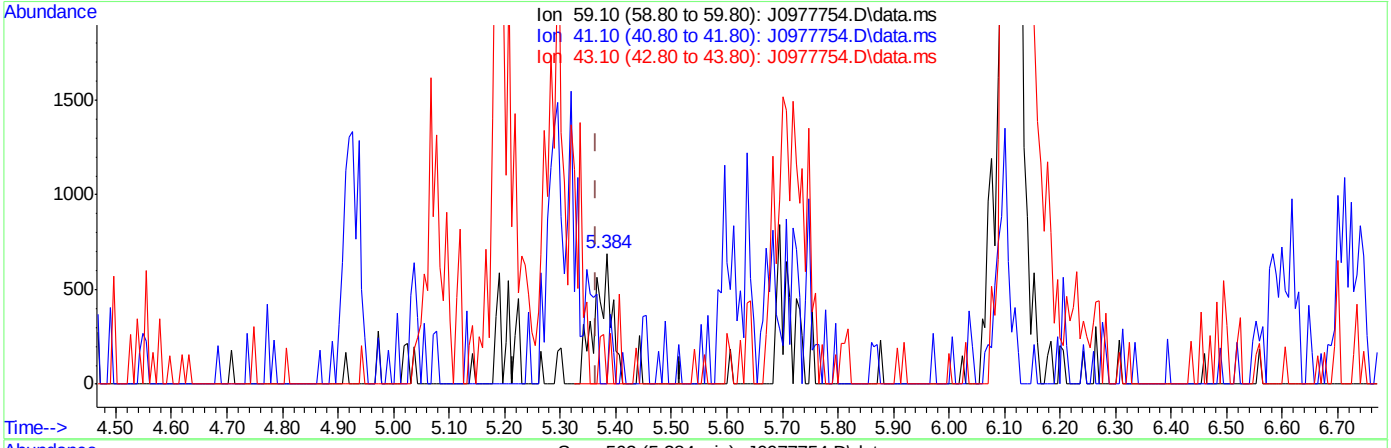
Ion	Exp%	Act%
146.00	100	100
111.00	44.90	28.26
148.00	58.40	53.25
75.00	38.60	106.95#

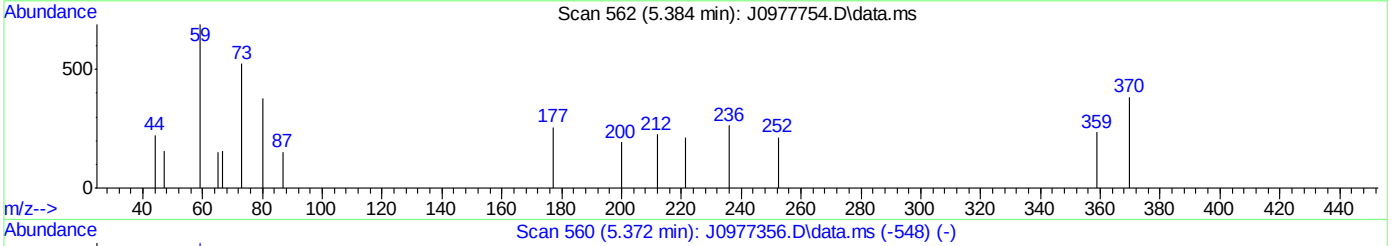
SGS ACCUTEST FA34891

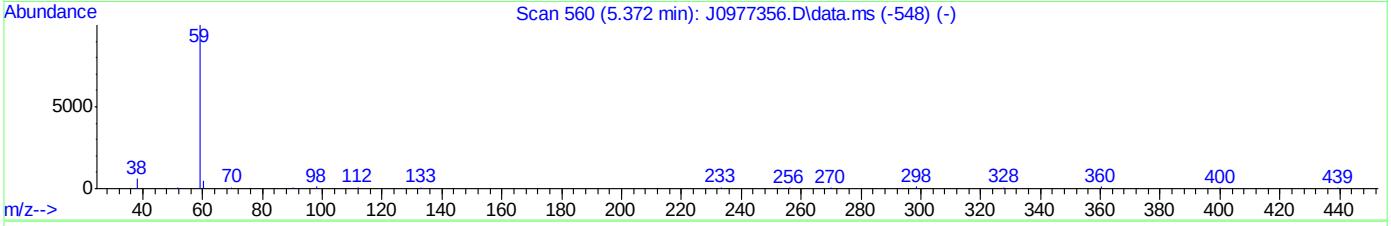
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\070116\
Data File : J0977754.D
Acq On : 1 Jul 2016 12:00 pm
Operator : darshnap
Sample : ic5359-1 Inst : MSVOA6
Misc : MS34274,vj5359,,,,,
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jul 01 12:28:50 2016
Quant Method : C:\msdchem\1\methods\MSJ070116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Jul 01 11:37:49 2016
Response via : Initial Calibration







TIC: J0977754.D\data.ms

(109) Tert Butyl Alcohol

5.384min (+0.018) 9.96ug/L m

response 1442

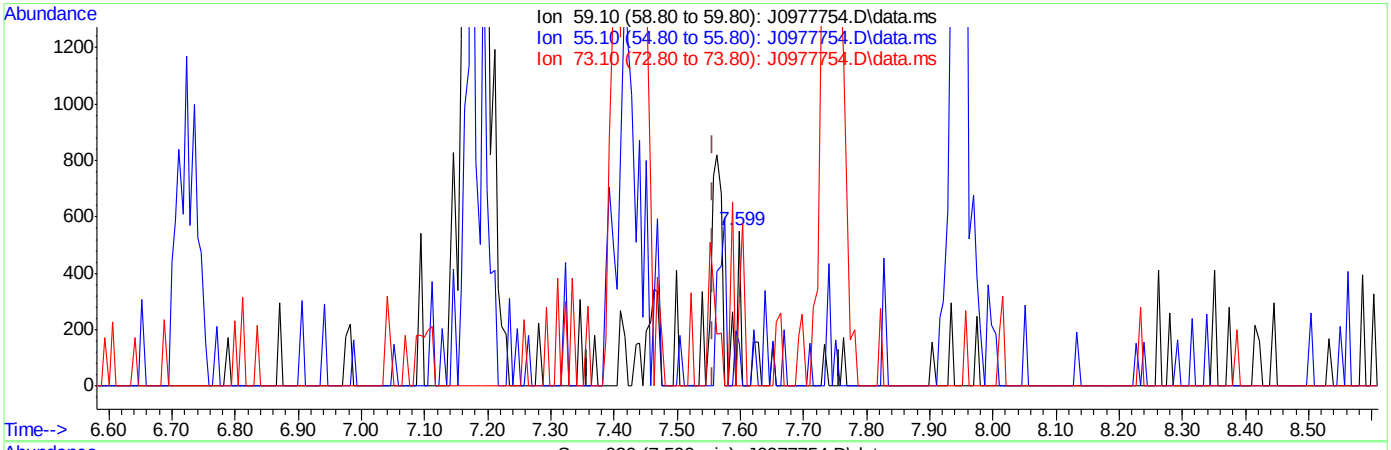
Ion	Exp%	Act%
59.10	100	100
41.10	41.30	0.00#
43.10	20.90	0.00#
0.00	0.00	0.00

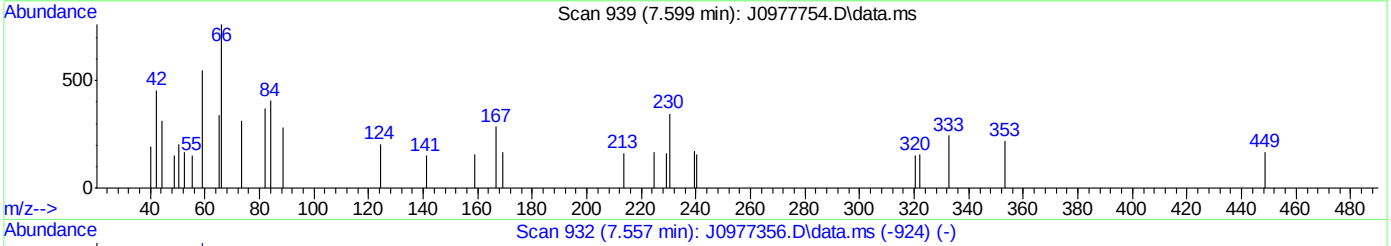
SGS ACCUTEST FA34891

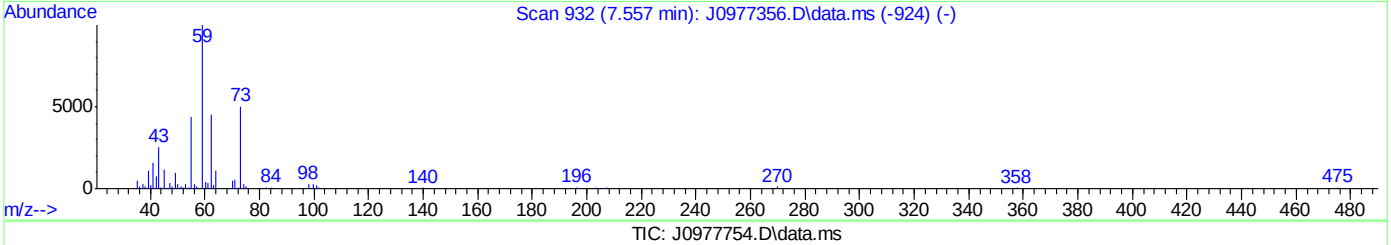
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\070116\
Data File : J0977754.D
Acq On : 1 Jul 2016 12:00 pm
Operator : darshnap
Sample : ic5359-1 Inst : MSVOA6
Misc : MS34274,vj5359,,,,,
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jul 01 12:28:50 2016
Quant Method : C:\msdchem\1\methods\MSJ070116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Jul 01 11:37:49 2016
Response via : Initial Calibration







TIC: J0977754.D\data.ms

(110) tert Amyl alcohol

7.599min (+0.041) 2.78ug/L

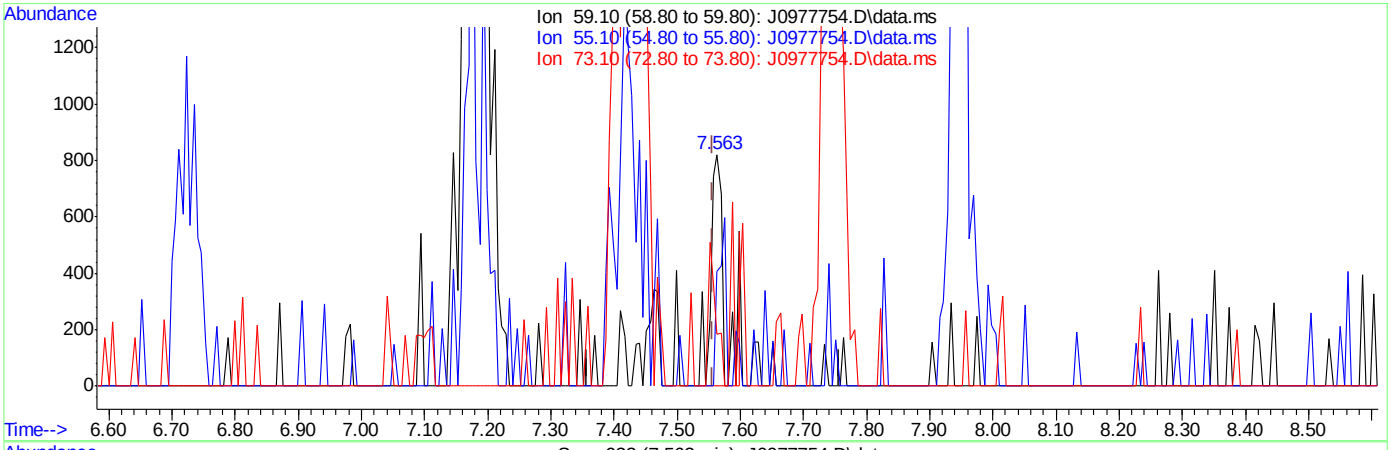
response 286

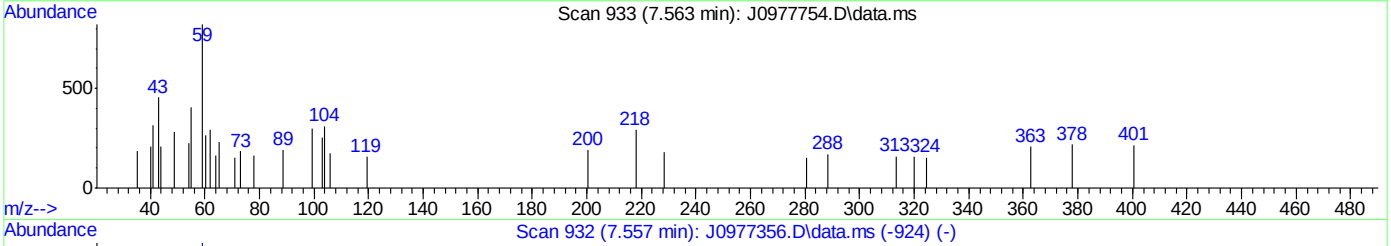
Ion	Exp%	Act%
59.10	100	100
55.10	64.50	28.00#
73.10	46.50	56.73
0.00	0.00	0.00

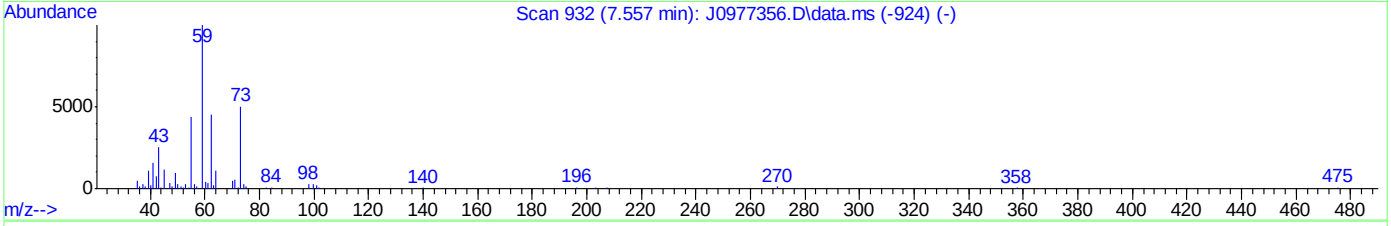
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\070116\
Data File : J0977754.D
Acq On : 1 Jul 2016 12:00 pm
Operator : darshnap
Sample : ic5359-1 Inst : MSVOA6
Misc : MS34274,vj5359,,,,,
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jul 01 12:28:50 2016
Quant Method : C:\msdchem\1\methods\MSJ070116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Jul 01 11:37:49 2016
Response via : Initial Calibration







TIC: J0977754.D\data.ms

(110) tert Amyl alcohol

7.563min (+0.006) 12.45ug/L m

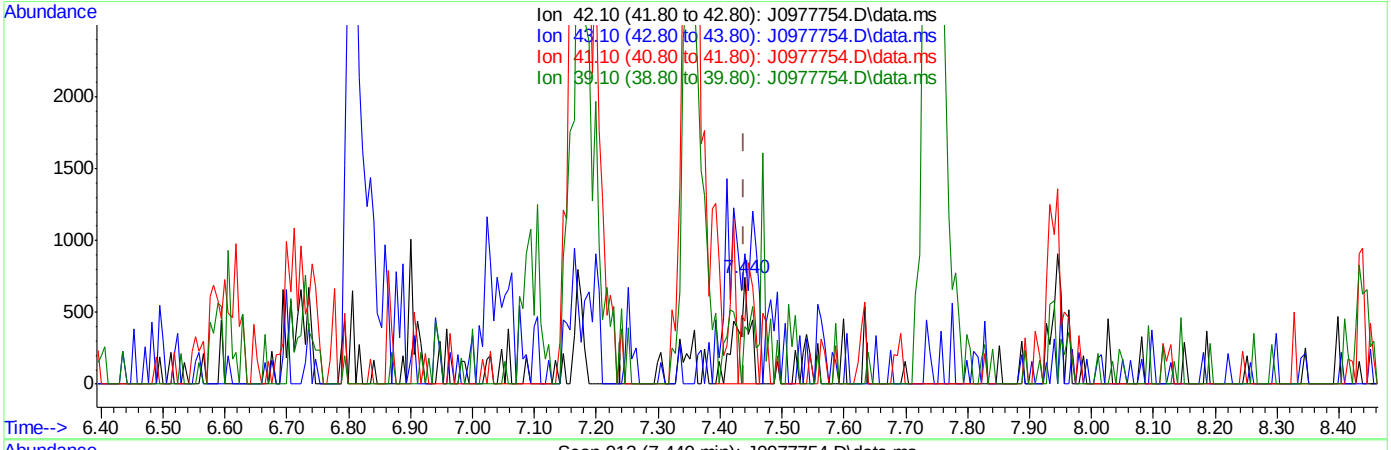
response 1281

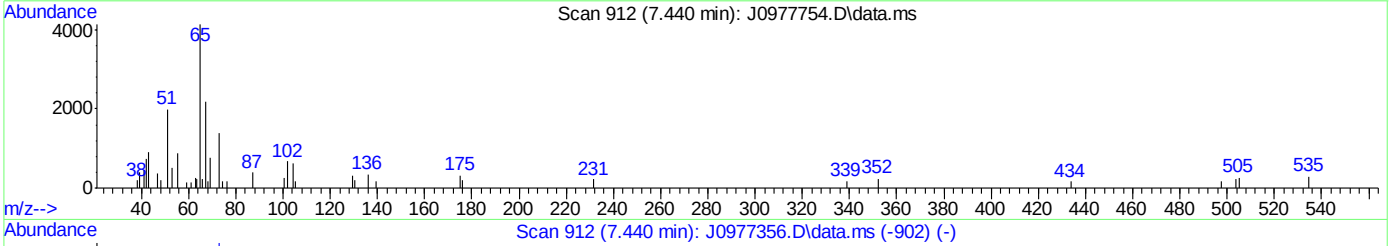
Ion	Exp%	Act%
59.10	100	100
55.10	64.50	49.45
73.10	46.50	22.53#
0.00	0.00	0.00

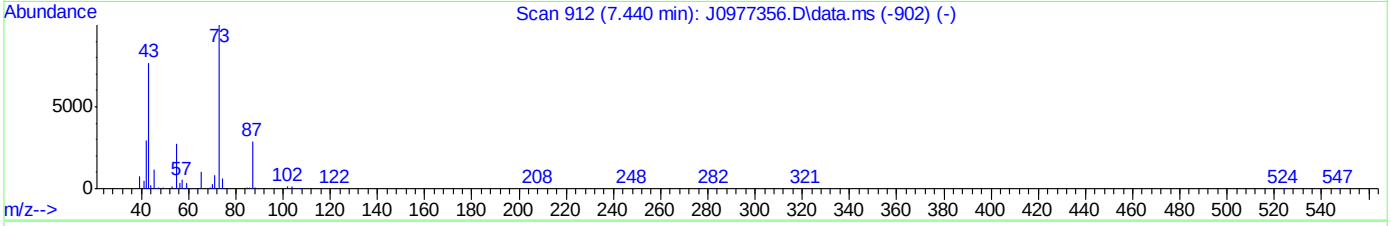
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\070116\
Data File : J0977754.D
Acq On : 1 Jul 2016 12:00 pm
Operator : darshnap
Sample : ic5359-1 Inst : MSVOA6
Misc : MS34274,vj5359,,,,,
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jul 01 12:28:50 2016
Quant Method : C:\msdchem\1\methods\MSJ070116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Jul 01 11:37:49 2016
Response via : Initial Calibration







TIC: J0977754.D\data.ms

(111) Isobutyl alcohol

7.440min (+0.000) 20.84ug/L

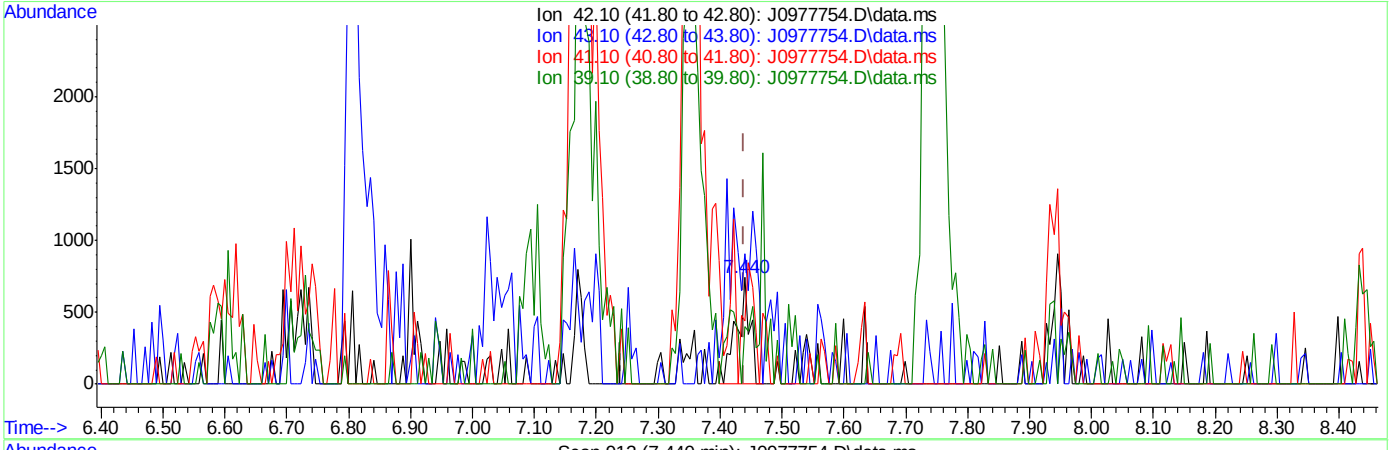
response 1151

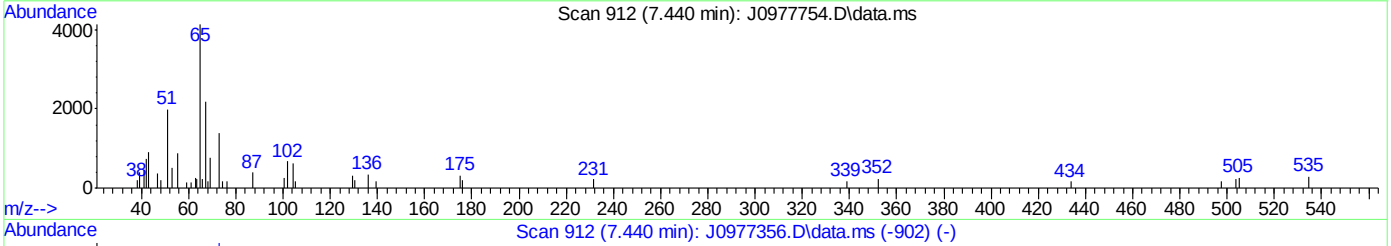
Ion	Exp%	Act%
42.10	100	100
43.10	209.80	62.08#
41.10	145.20	59.65#
39.10	63.10	17.00#

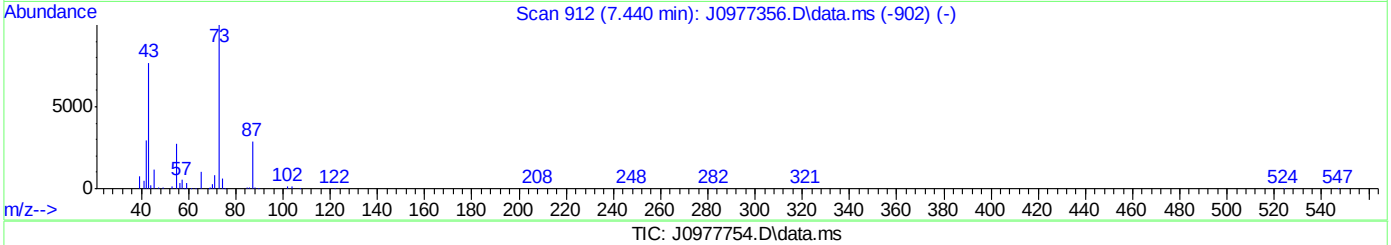
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\070116\
Data File : J0977754.D
Acq On : 1 Jul 2016 12:00 pm
Operator : darshnap
Sample : ic5359-1 Inst : MSVOA6
Misc : MS34274,vj5359,,,,,
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jul 01 12:28:50 2016
Quant Method : C:\msdchem\1\methods\MSJ070116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Jul 01 11:37:49 2016
Response via : Initial Calibration







TIC: J0977754.D\data.ms

(111) Isobutyl alcohol

7.440min (+0.000) 19.81ug/L m

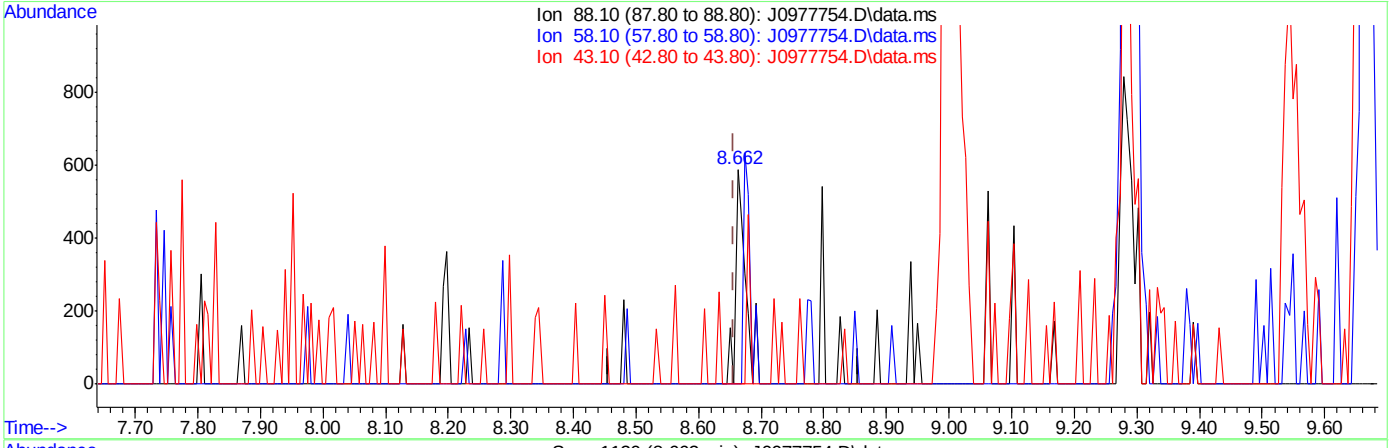
response 1094

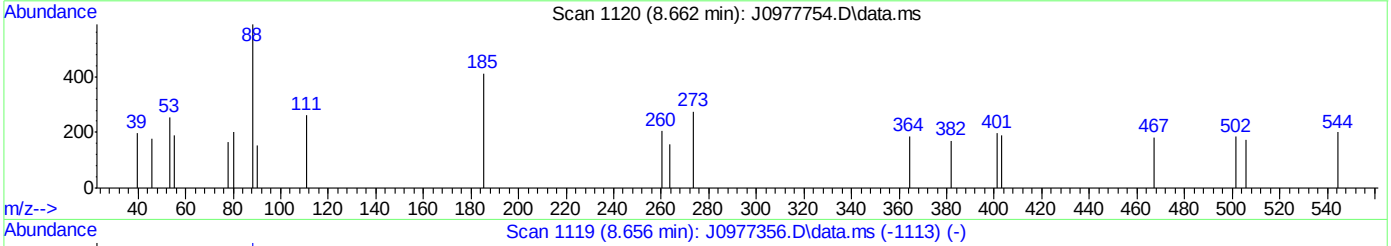
Ion	Exp%	Act%
42.10	100	100
43.10	209.80	122.13#
41.10	145.20	59.65#
39.10	63.10	54.39

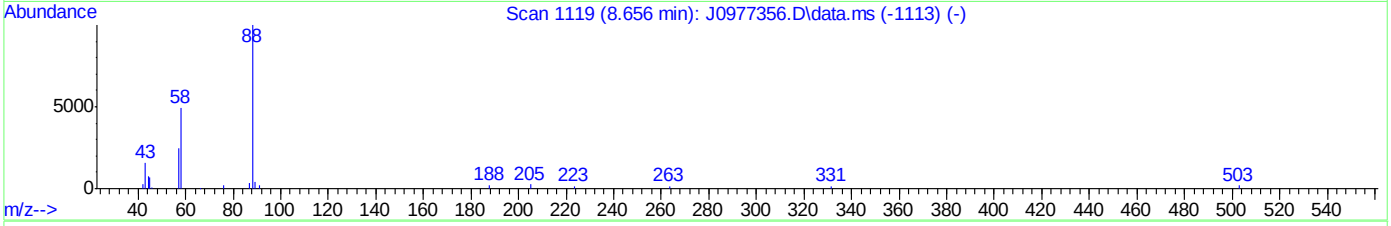
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\070116\
Data File : J0977754.D
Acq On : 1 Jul 2016 12:00 pm
Operator : darshnap
Sample : ic5359-1 Inst : MSVOA6
Misc : MS34274,vj5359,,,,,
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jul 01 12:28:50 2016
Quant Method : C:\msdchem\1\methods\MSJ070116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Jul 01 11:37:49 2016
Response via : Initial Calibration







TIC: J0977754.D\data.ms

(112) 1,4-Dioxane

8.662min (+0.006) 43.60ug/L

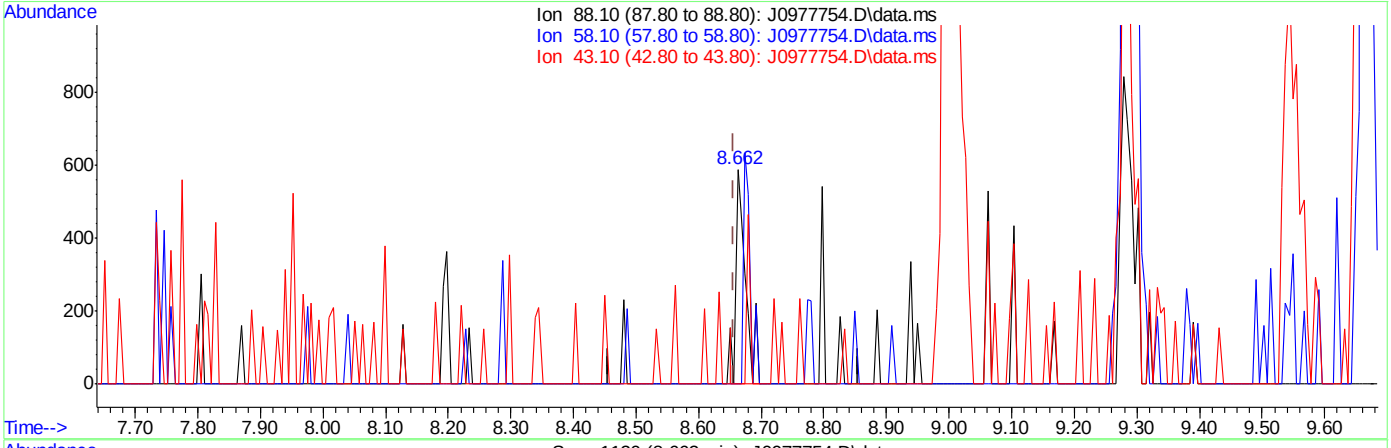
response 596

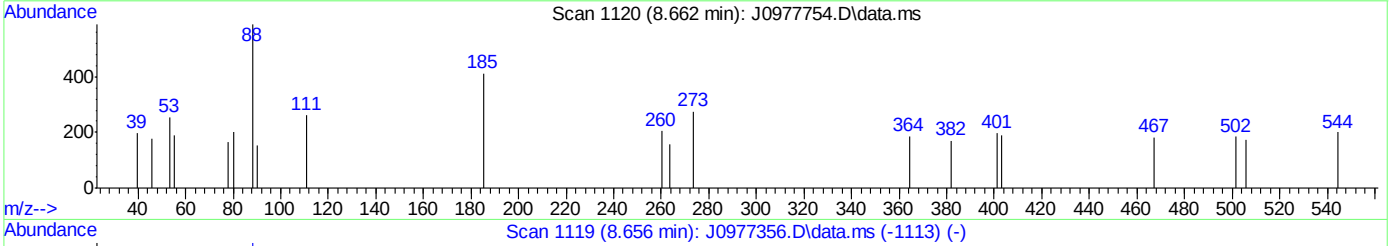
Ion	Exp%	Act%
88.10	100	100
58.10	87.20	0.00#
43.10	32.70	0.00#
0.00	0.00	0.00

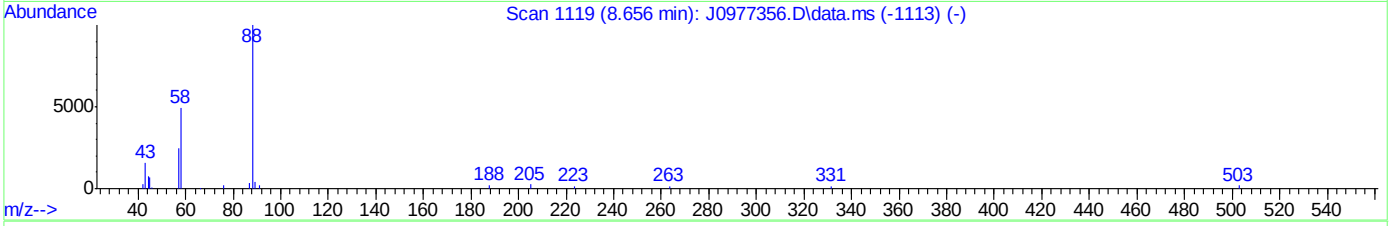
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\070116\
Data File : J0977754.D
Acq On : 1 Jul 2016 12:00 pm
Operator : darshnap
Sample : ic5359-1 Inst : MSVOA6
Misc : MS34274,vj5359,,,,,
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jul 01 12:28:50 2016
Quant Method : C:\msdchem\1\methods\MSJ070116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Jul 01 11:37:49 2016
Response via : Initial Calibration







TIC: J0977754.D\data.ms

(112) 1,4-Dioxane

8.662min (+0.006) 45.34ug/L m

response 620

Ion	Exp%	Act%
88.10	100	100
58.10	87.20	0.00#
43.10	32.70	0.00#
0.00	0.00	0.00

SGS ACCUTEST FA34891

Manual Integrations APPROVED (compounds with "m" flag)
Juan Garcia
07/05/16 13:38

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\070116\
Data File : J0977755.D
Acq On : 1 Jul 2016 12:23 pm
Operator : darshnap
Sample : icV5359-5 Inst : MSVOA6
Misc : MS34274,vj5359,,,,,
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jul 01 13:23:30 2016
Quant Method : C:\msdchem\1\methods\MSJ070116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Jul 01 12:56:34 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.740	96	573890	50.00	ug/L	0.00
56) Chlorobenzene-d5	10.830	117	400470	50.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	13.192	152	203119	50.00	ug/L	0.00
106) Tert Butyl Alcohol-d10	5.278	65	39964	250.00	ug/L	0.00
System Monitoring Compounds						
36) Dibromofluoromethane	6.917	113	140168	49.19	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 98.38%			
46) 1,2-Dichloroethane-d4	7.464	65	181202	49.42	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 98.84%			
57) Toluene-d8	9.285	98	536156	51.23	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 102.46%			
79) 4-Bromofluorobenzene	12.041	95	191388	48.20	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 96.40%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.693	85	92969	32.77	ug/L	97
3) Chloromethane	2.892	50	124863	35.78	ug/L	97
4) Vinyl Chloride	3.033	62	134466	32.97	ug/L	88
5) 1,3-Butadiene	3.016	54	1867	0.57	ug/L #	70
6) Bromomethane	3.445	94	117590	33.81	ug/L	81
7) Chloroethane	3.598	64	92859	36.73	ug/L	94
8) Trichlorofluoromethane	3.762	101	226815	36.12	ug/L	85
9) Ethyl Ether	4.115	59	104527	40.33	ug/L	84
10) 1,2-Dichlorotrifluoroe...	4.338	67	152657	44.38	ug/L	95
11) 1,1-Dichloroethene	4.385	61	180655	40.37	ug/L	91
12) Freon 113	4.449	101	107109	34.36	ug/L	94
13) Carbon Disulfide	4.467	76	373578	38.30	ug/L	96
14) Iodomethane	4.573	142	173170	39.04	ug/L	98
15) Allyl chloride	4.914	41	144152	41.36	ug/L	91
16) Methylene Chloride	5.031	49	177053	40.09	ug/L	93
17) Acetone	5.061	58	44690	238.36	ug/L	94
18) Methyl acetate	5.172	74	74172	217.09	ug/L #	78
19) trans-1,2-Dichloroethene	5.219	61	190909	49.05	ug/L	94
20) Hexane	5.290	56	122092	42.73	ug/L	97
21) Methyl Tert Butyl Ether	5.331	73	302164	39.67	ug/L	93
22) Acetonitrile	5.583	40	55812	482.56	ug/L	94
23) Di-isopropyl ether	5.707	45	390655	37.80	ug/L	94
24) Chloroprene	5.860	53	172224	38.84	ug/L	96
25) 1,1-Dichloroethane	5.889	63	247419	44.78	ug/L	99
26) Acrylonitrile	5.912	53	172771	210.58	ug/L	92
27) ETBE	6.101	59	364974	38.28	ug/L	95
28) Vinyl acetate	6.095	43	1014602	194.65	ug/L	98
29) cis-1,2-Dichloroethene	6.465	96	134636	37.40	ug/L	93
30) 2,2-Dichloropropane	6.588	77	166882	42.84	ug/L	82
31) Bromochloromethane	6.676	128	57807	39.23	ug/L	90
32) Cyclohexane	6.723	56	221369	41.64	ug/L	95
33) Chloroform	6.729	83	234956	40.59	ug/L	89
34) Ethyl acetate	6.794	43	378495	195.54	ug/L	97

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\070116\
Data File : J0977755.D
Acq On : 1 Jul 2016 12:23 pm
Operator : darshnap
Sample : icV5359-5 Inst : MSVOA6
Misc : MS34274,vj5359,,,,,
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jul 01 13:23:30 2016
Quant Method : C:\msdchem\1\methods\MSJ070116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Jul 01 12:56:34 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
35) Tetrahydrofuran	6.911	42	24599	43.96 ug/L	93
37) Carbon Tetrachloride	6.923	117	164830m	40.91 ug/L	
38) 1,1,1-Trichloroethane	6.982	97	196780	39.48 ug/L	92
39) 2-Butanone	7.005	43	172039	222.91 ug/L	92
40) 1,1-Dichloropropene	7.093	75	164335	39.38 ug/L	93
41) tert-Butyl Formate	7.170	59	590995	389.86 ug/L	97
42) Propionitrile	7.317	54	127015	415.85 ug/L	93
43) Methacrylonitrile	7.346	41	512836	406.62 ug/L	96
44) Benzene	7.340	78	505928	40.73 ug/L	100
45) TAME	7.417	73	303525	38.26 ug/L	96
47) 1,2-Dichloroethane	7.534	62	172149	37.67 ug/L	94
48) Trichloroethene	7.922	95	131084	43.05 ug/L	97
49) Methylcyclohexane	7.945	83	221267	40.38 ug/L	95
50) Dibromomethane	8.351	93	71023	40.29 ug/L	90
51) 1,2-Dichloropropane	8.433	63	130266	39.36 ug/L	94
52) Bromodichloromethane	8.480	83	166693	42.99 ug/L	97
53) Methyl methacrylate	8.580	41	76657	47.23 ug/L	92
54) 2-Chloroethyl vinyl ether	8.991	63	345609	196.43 ug/L	95
55) cis-1,3-Dichloropropene	9.097	75	188766	41.16 ug/L	91
58) Toluene	9.338	91	507395	41.96 ug/L	99
59) 2-Nitropropane	9.544	41	88809	209.95 ug/L	83
60) 4-Methyl-2-pentanone	9.661	43	402703	212.80 ug/L	96
61) trans-1,3-Dichloropropene	9.720	75	174222	49.43 ug/L	96
62) Tetrachloroethene	9.737	166	116444	44.06 ug/L	92
63) Ethyl methacrylate	9.826	69	106651	35.57 ug/L	94
64) 1,1,2-Trichloroethane	9.884	83	88100	42.59 ug/L	88
65) Dibromochloromethane	10.084	129	105034	42.02 ug/L	99
66) 1,3-Dichloropropane	10.166	76	168178	40.97 ug/L	95
67) 1,2-Dibromoethane	10.343	107	95095	40.89 ug/L	92
68) 2-hexanone	10.472	43	276725	204.37 ug/L	98
69) 1-Chlorohexane	10.783	91	156678	39.82 ug/L	95
70) Ethylbenzene	10.848	91	589673	40.93 ug/L	97
71) Chlorobenzene	10.848	112	333573	42.64 ug/L	96
72) 1,1,1,2-Tetrachloroethane	10.901	131	111519	42.67 ug/L	96
73) m,p-Xylene	10.983	91	928245	86.61 ug/L	96
74) o-Xylene	11.424	91	468904	41.52 ug/L	94
75) Styrene	11.471	104	357507	42.10 ug/L	98
76) Bromoform	11.535	173	54749	42.13 ug/L	95
77) Isopropylbenzene	11.729	105	578712	43.20 ug/L	98
80) cis-1,4-Dichloro-2-butene	12.076	53	30259	33.30 ug/L #	86
81) n-Propylbenzene	12.146	91	716495	41.65 ug/L	97
82) Bromobenzene	12.170	156	125278	40.41 ug/L	94
83) 1,1,2,2-Tetrachloroethane	12.205	83	126045	39.33 ug/L	87
84) 1,3,5-Trimethylbenzene	12.329	105	483386	39.88 ug/L	93
85) 2-Chlorotoluene	12.335	91	468883	40.50 ug/L	98
86) trans-1,4-Dichloro-2-B...	12.387	53	31433	37.47 ug/L	93
87) 1,2,3-Trichloropropane	12.364	110	33424	39.79 ug/L	78
88) Cyclohexanone	12.429	55	13406	163.20 ug/L #	71
89) 4-Chlorotoluene	12.499	91	431058	38.71 ug/L	96
90) a-Methyl Styrene	12.669	118	2960	0.47 ug/L #	1

SGS ACCUTEST FA34891

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\070116\
Data File : J0977755.D
Acq On : 1 Jul 2016 12:23 pm
Operator : darshnap
Sample : icV5359-5 Inst : MSVOA6
Misc : MS34274,vj5359,,,,,
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jul 01 13:23:30 2016
Quant Method : C:\msdchem\1\methods\MSJ070116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Jul 01 12:56:34 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
91) tert-Butylbenzene	12.669	91	279303	40.07 ug/L	99
92) 1,2,4-Trimethylbenzene	12.734	105	490921	39.48 ug/L	99
93) Pentachloroethane	12.722	167	79198	45.55 ug/L	93
94) sec-Butylbenzene	12.852	105	647592	42.42 ug/L	97
95) 4-Isopropyltoluene	12.987	119	507587	39.69 ug/L	100
96) 1,3-Dichlorobenzene	13.122	146	250848	40.67 ug/L	96
97) 1,4-Dichlorobenzene	13.204	146	255542	39.99 ug/L	95
98) n-Butylbenzene	13.421	92	318552	44.08 ug/L	99
99) Benzyl Chloride	13.433	126	39759	39.31 ug/L #	90
100) 1,2-Dichlorobenzene	13.633	146	236603	40.88 ug/L	94
101) 1,2-Dibromo-3-Chloropr...	14.367	75	17978	43.45 ug/L	87
102) Hexachlorobutadiene	14.914	225	75961	43.87 ug/L	92
103) 1,2,4-Trichlorobenzene	14.961	180	157363	44.83 ug/L	95
104) Naphthalene	15.243	128	312747	49.09 ug/L	99
105) 1,2,3-Trichlorobenzene	15.413	180	128593	43.06 ug/L	97
107) Ethanol	4.273	45	17310m	760.55 ug/L	
108) acrolein	4.749	56	104820	230.78 ug/L	92
109) Tert Butyl Alcohol	5.366	59	71431	358.49 ug/L	81
110) tert Amyl alcohol	7.564	59	56199	348.31 ug/L	99
111) Isobutyl alcohol	7.440	42	53011	714.81 ug/L	90
112) 1,4-Dioxane	8.656	88	17920	795.07 ug/L	74
113) 3,3-Dimethyl-1-butanol	10.419	57	365247	1766.61 ug/L	97

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

7.6.18

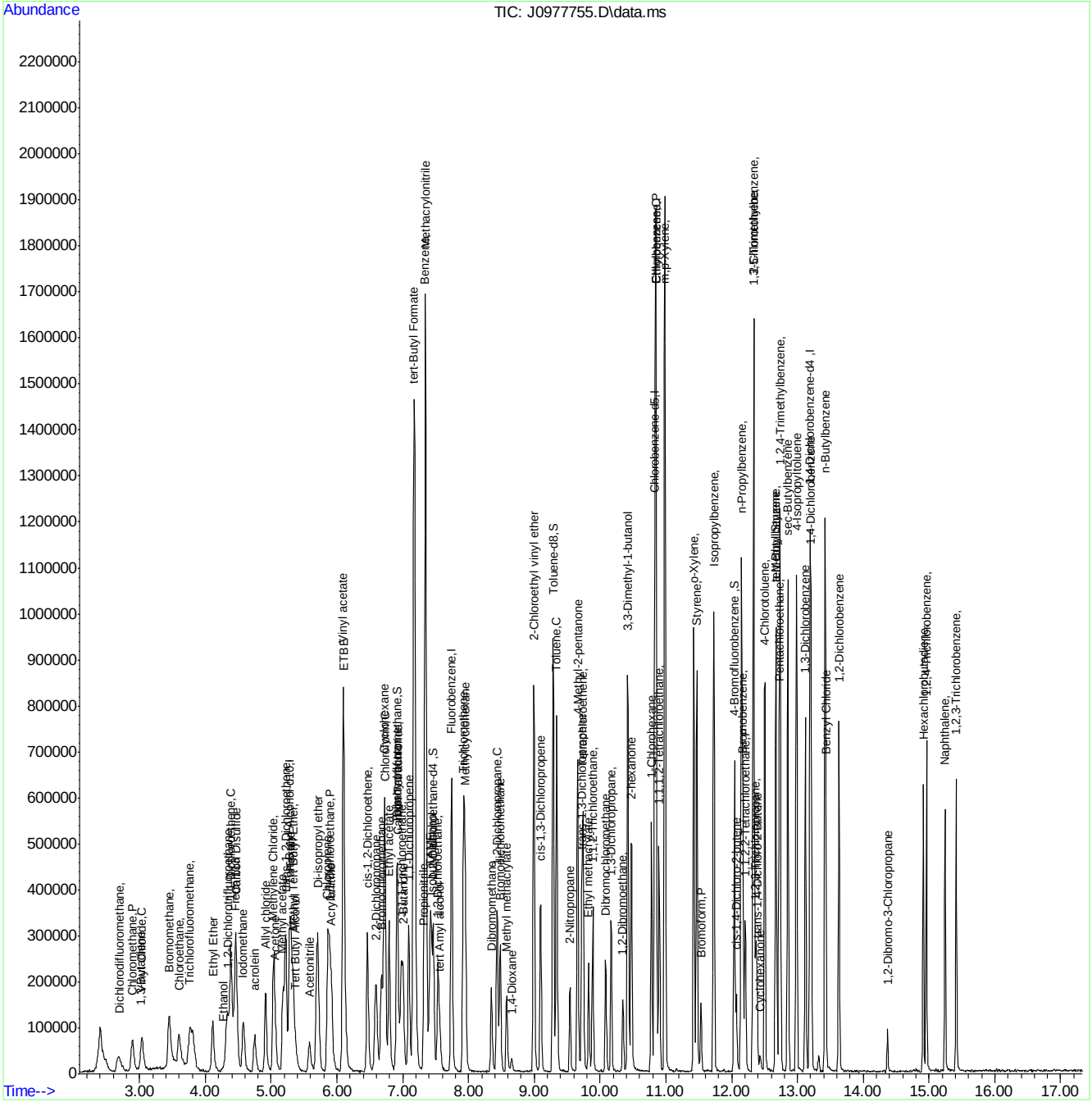
7

SGS ACCUTEST FA34891

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\070116\
Data File : J0977755.D
Acq On : 1 Jul 2016 12:23 pm
Operator : darshnap
Sample : icV5359-5 Inst : MSVOA6
Misc : MS34274,vj5359,,,,,
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jul 01 13:23:30 2016
Quant Method : C:\msdchem\1\methods\MSJ070116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Jul 01 12:56:34 2016
Response via : Initial Calibration



MSJ070116a.M Tue Jul 05 07:52:20 2016 Page: 4

SGS ACCUTEST FA34891

Manual Integration Approval Summary

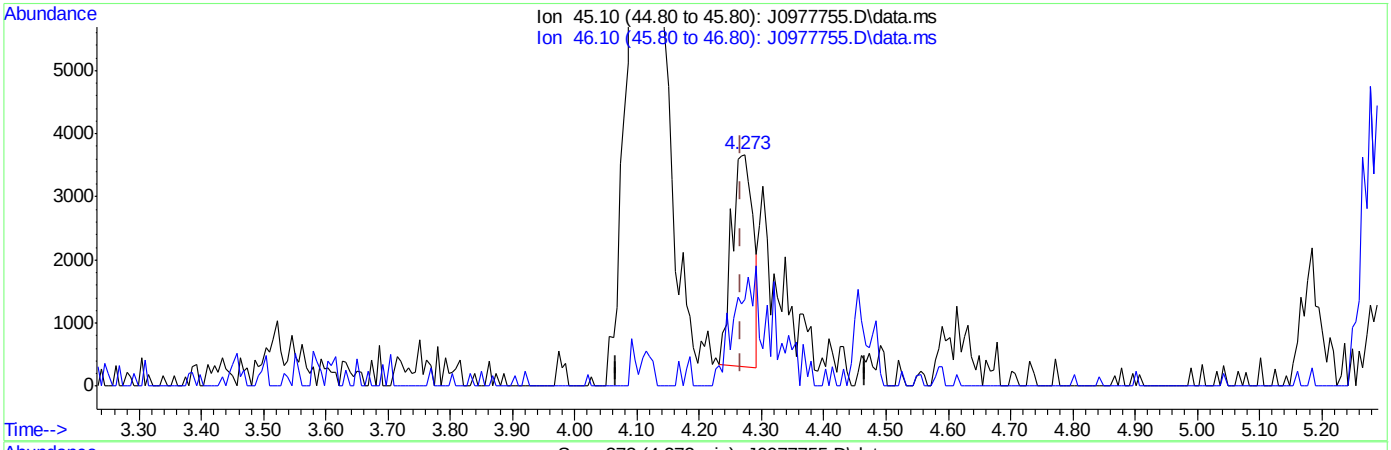
Sample Number:	VJ5359-ICV5359	**Method:**	SW846 8260B
Lab FileID:	J0977755.D	**Analyst approved:**	07/05/16 08:03 Darshna Patel
Injection Time:	07/01/16 12:23	**Supervisor approved:**	07/05/16 13:38 Juan Garcia

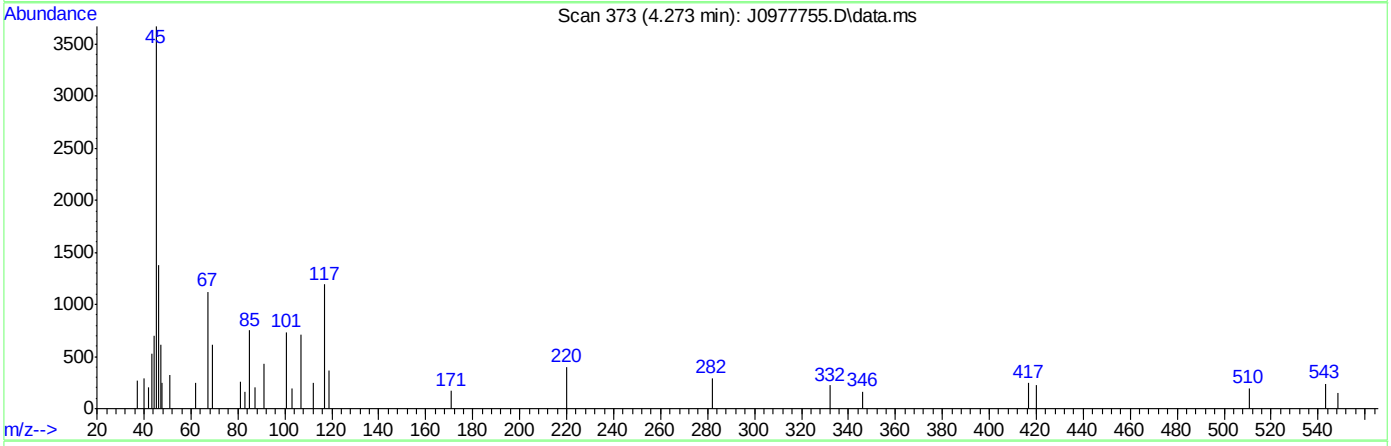
Parameter	CAS	Sig#	R.T. (min.)	Reason
Ethyl Alcohol	64-17-5		4.27	Poor instrument integration
Carbon Tetrachloride	56-23-5		6.92	Overlapping peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\070116\
Data File : J0977755.D
Acq On : 1 Jul 2016 12:23 pm
Operator : darshnap
Sample : icV5359-5 Inst : MSVOA6
Misc : MS34274,vj5359,,,,,
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jul 01 12:56:37 2016
Quant Method : C:\msdchem\1\methods\MSJ070116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Jul 01 12:56:34 2016
Response via : Initial Calibration





TIC: J0977755.D\data.ms

(107) Ethanol

4.273min (+0.006) 348.99ug/L

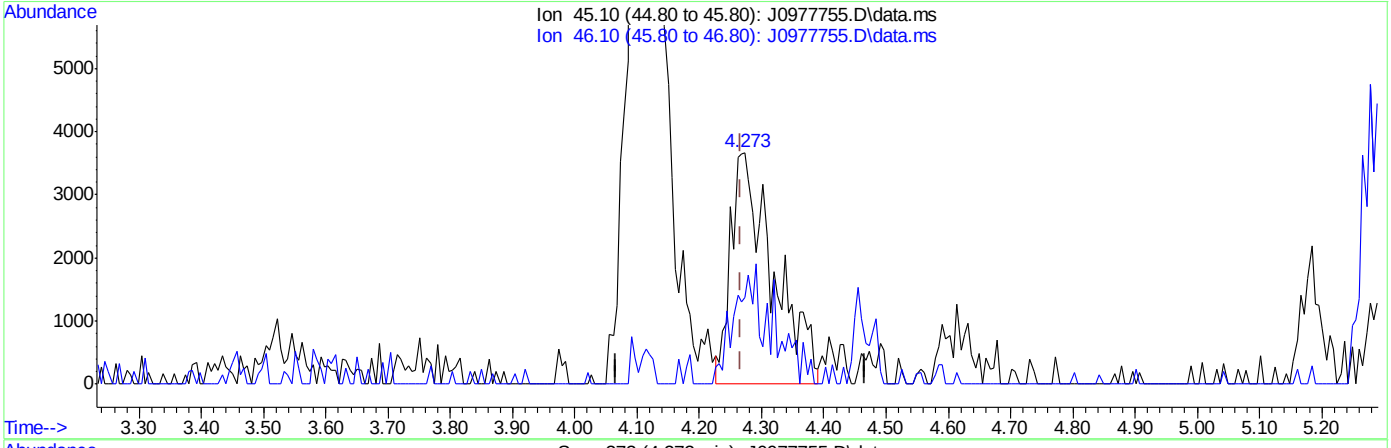
response 7943

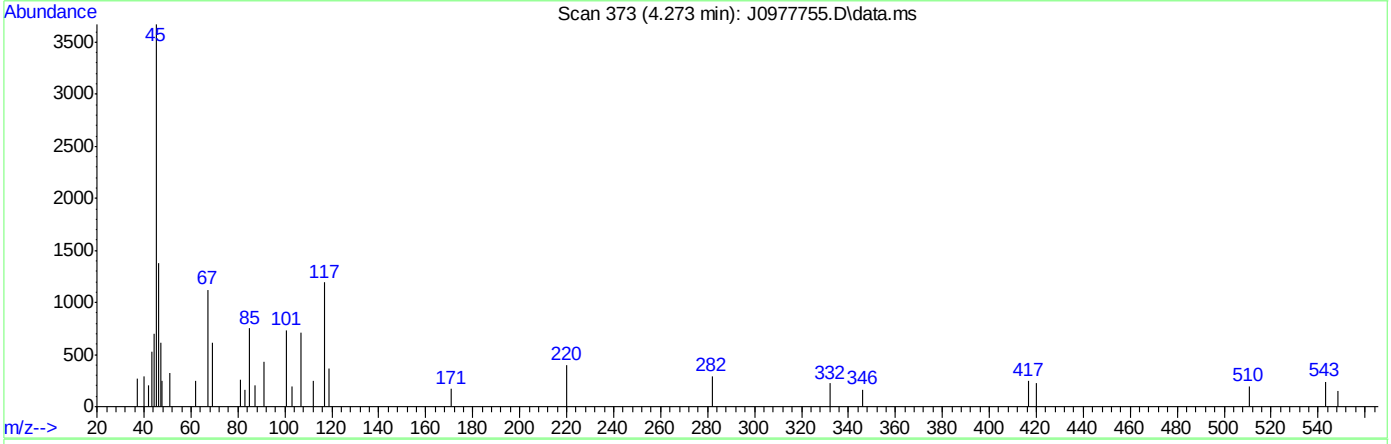
Ion	Exp%	Act%
45.10	100	100
46.10	24.20	31.62
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\070116\
Data File : J0977755.D
Acq On : 1 Jul 2016 12:23 pm
Operator : darshnap
Sample : icV5359-5 Inst : MSVOA6
Misc : MS34274,vj5359,,,,,
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jul 01 12:56:37 2016
Quant Method : C:\msdchem\1\methods\MSJ070116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Jul 01 12:56:34 2016
Response via : Initial Calibration





TIC: J0977755.D\data.ms

(107) Ethanol

4.273min (+0.006) 760.55ug/L m

response 17310

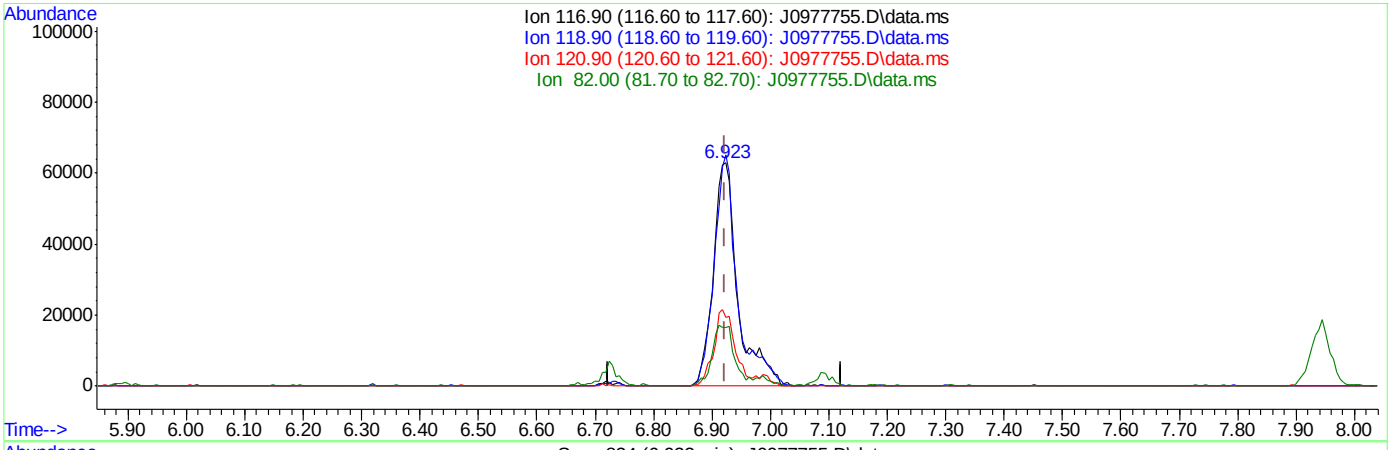
Ion	Exp%	Act%
45.10	100	100
46.10	24.20	37.48
0.00	0.00	0.00
0.00	0.00	0.00

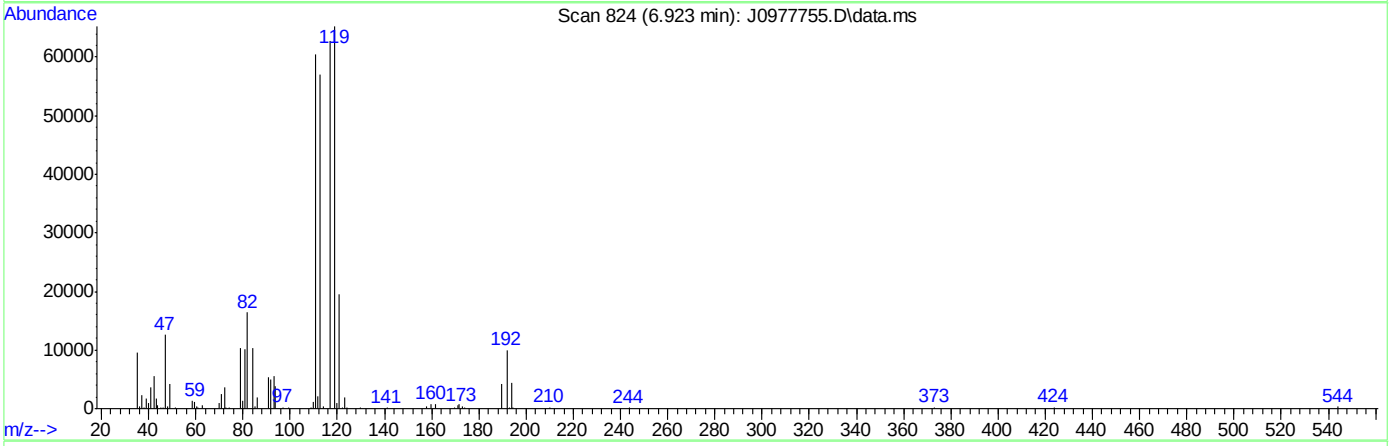
SGS ACCUTEST FA34891

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\070116\
Data File : J0977755.D
Acq On : 1 Jul 2016 12:23 pm
Operator : darshnap
Sample : icV5359-5 Inst : MSVOA6
Misc : MS34274,vj5359,,,,,
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jul 01 12:56:37 2016
Quant Method : C:\msdchem\1\methods\MSJ070116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Jul 01 12:56:34 2016
Response via : Initial Calibration





TIC: J0977755.D\data.ms

(37) Carbon Tetrachloride ( )

6.923min (+0.000) 45.56ug/L

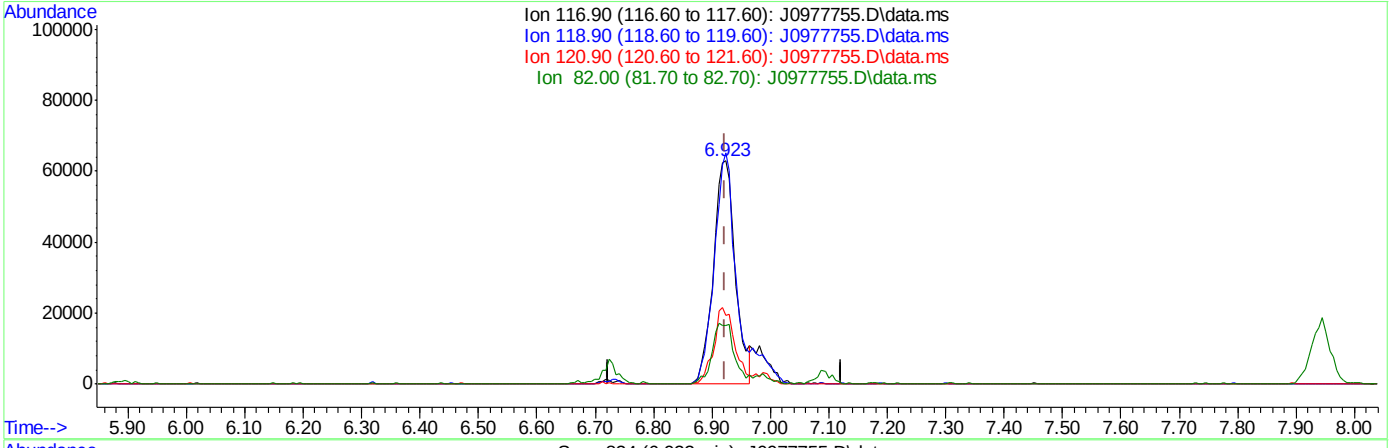
response 185376

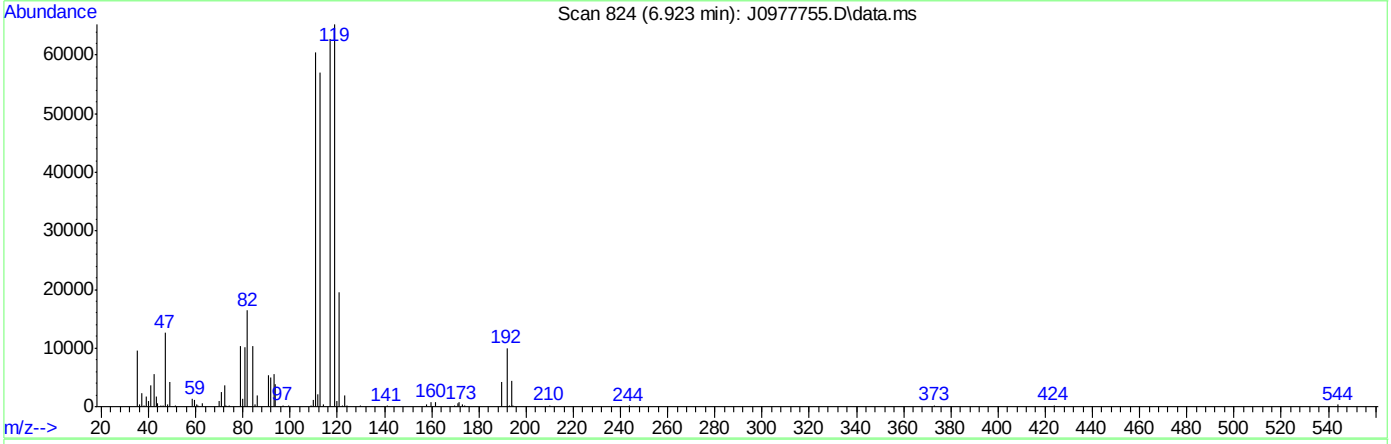
Ion	Exp%	Act%
116.90	100	100
118.90	94.30	103.81
120.90	30.90	30.93
82.00	27.90	26.07

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\070116\
Data File : J0977755.D
Acq On : 1 Jul 2016 12:23 pm
Operator : darshnap
Sample : icV5359-5 Inst : MSVOA6
Misc : MS34274,vj5359,,,,,
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jul 01 12:56:37 2016
Quant Method : C:\msdchem\1\methods\MSJ070116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Jul 01 12:56:34 2016
Response via : Initial Calibration





TIC: J0977755.D\data.ms

(37) Carbon Tetrachloride ( )

6.923min (+0.000) 40.91ug/L m

response 164830

Ion	Exp%	Act%
116.90	100	100
118.90	94.30	103.81
120.90	30.90	30.93
82.00	27.90	26.07

Manual Integrations APPROVED (compounds with "m" flag)
Juan Garcia
07/05/16 13:38

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\070116\
Data File : J0977779.D
Acq On : 1 Jul 2016 10:03 pm
Operator : darshnap
Sample : ecc5359-5 Inst : MSVOA6
Misc : MS34309,vj5359,,,,,
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Jul 05 07:43:28 2016
Quant Method : C:\msdchem\1\methods\MSJ070116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Jul 01 12:56:34 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.740	96	669470	50.00	ug/L	0.00
56) Chlorobenzene-d5	10.830	117	474705	50.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	13.186	152	221347	50.00	ug/L	0.00
106) Tert Butyl Alcohol-d10	5.290	65	38513	250.00	ug/L	0.01
System Monitoring Compounds						
36) Dibromofluoromethane	6.911	113	158603	47.71	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 95.42%			
46) 1,2-Dichloroethane-d4	7.464	65	194667	45.51	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 91.02%			
57) Toluene-d8	9.285	98	631968	50.94	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 101.88%			
79) 4-Bromofluorobenzene	12.041	95	212719	49.16	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 98.32%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.687	85	108813	32.87	ug/L	92
3) Chloromethane	2.892	50	159150	39.09	ug/L	97
4) Vinyl Chloride	3.033	62	166072	35.06	ug/L	98
5) 1,3-Butadiene	3.033	54	148788	42.14	ug/L	84
6) Bromomethane	3.456	94	145853	35.71	ug/L	100
7) Chloroethane	3.609	64	107245	36.40	ug/L	90
8) Trichlorofluoromethane	3.762	101	248531	34.36	ug/L	91
9) Ethyl Ether	4.115	59	130001	43.00	ug/L	87
10) 1,2-Dichlorotrifluoroe...	4.338	67	160674	40.04	ug/L	95
11) 1,1-Dichloroethene	4.391	61	187156	35.85	ug/L	98
12) Freon 113	4.449	101	124895	34.34	ug/L	94
13) Carbon Disulfide	4.461	76	435620	38.28	ug/L	87
14) Iodomethane	4.579	142	209665	40.52	ug/L	98
15) Allyl chloride	4.919	41	160028	39.36	ug/L	93
16) Methylene Chloride	5.037	49	191139	36.90	ug/L	99
17) Acetone	5.055	58	45864	209.60	ug/L	96
18) Methyl acetate	5.184	74	85360	214.17	ug/L #	83
19) trans-1,2-Dichloroethene	5.225	61	174087	38.34	ug/L	99
20) Hexane	5.284	56	127008	38.10	ug/L #	89
21) Methyl Tert Butyl Ether	5.325	73	343194	38.63	ug/L	94
22) Acetonitrile	5.578	40	56182	416.75	ug/L	93
23) Di-isopropyl ether	5.701	45	438084	36.21	ug/L	98
24) Chloroprene	5.860	53	192872	37.29	ug/L	92
25) 1,1-Dichloroethane	5.883	63	251586	39.01	ug/L	99
26) Acrylonitrile	5.912	53	185777	194.11	ug/L	94
27) ETBE	6.100	59	449525	40.42	ug/L	99
28) Vinyl acetate	6.095	43	953972	156.89	ug/L	98
29) cis-1,2-Dichloroethene	6.459	96	156530	37.28	ug/L	88
30) 2,2-Dichloropropane	6.600	77	143895	31.66	ug/L	89
31) Bromochloromethane	6.670	128	68201	39.67	ug/L	93
32) Cyclohexane	6.723	56	227235	37.26	ug/L	94
33) Chloroform	6.723	83	255927	38.17	ug/L	98
34) Ethyl acetate	6.788	43	411402	182.19	ug/L	97

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\070116\
Data File : J0977779.D
Acq On : 1 Jul 2016 10:03 pm
Operator : darshnap
Sample : ecc5359-5 Inst : MSVOA6
Misc : MS34309,vj5359,,,,,
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Jul 05 07:43:28 2016
Quant Method : C:\msdchem\1\methods\MSJ070116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Jul 01 12:56:34 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
35) Tetrahydrofuran	6.905	42	25555	39.58 ug/L	83
37) Carbon Tetrachloride	6.917	117	169099m	36.33 ug/L	
38) 1,1,1-Trichloroethane	6.982	97	205520	35.61 ug/L	93
39) 2-Butanone	7.011	43	177362	197.00 ug/L	88
40) 1,1-Dichloropropene	7.088	75	165129	33.65 ug/L	92
41) tert-Butyl Formate	7.176	59	502617	284.71 ug/L	97
42) Propionitrile	7.317	54	131829	369.99 ug/L	92
43) Methacrylonitrile	7.346	41	523821	356.04 ug/L	97
44) Benzene	7.340	78	556932	38.54 ug/L	99
45) TAME	7.417	73	358036	38.69 ug/L	92
47) 1,2-Dichloroethane	7.534	62	174038	32.45 ug/L	95
48) Trichloroethene	7.922	95	133520	38.07 ug/L	91
49) Methylcyclohexane	7.945	83	232854	36.43 ug/L	92
50) Dibromomethane	8.345	93	75485	36.74 ug/L	88
51) 1,2-Dichloropropane	8.439	63	143420	37.14 ug/L	97
52) Bromodichloromethane	8.480	83	172120	38.05 ug/L	99
53) Methyl methacrylate	8.580	41	74195	39.19 ug/L	91
54) 2-Chloroethyl vinyl ether	8.991	63	363981	177.36 ug/L	97
55) cis-1,3-Dichloropropene	9.097	75	195637	37.09 ug/L	93
58) Toluene	9.338	91	560818	38.34 ug/L	97
59) 2-Nitropropane	9.544	41	94554	190.49 ug/L	99
60) 4-Methyl-2-pentanone	9.655	43	458055	206.10 ug/L	95
61) trans-1,3-Dichloropropene	9.720	75	163030	39.02 ug/L	97
62) Tetrachloroethene	9.737	166	189041	60.10 ug/L	92
63) Ethyl methacrylate	9.826	69	146546	40.70 ug/L	93
64) 1,1,2-Trichloroethane	9.884	83	96407	39.66 ug/L	81
65) Dibromochloromethane	10.084	129	112868	38.45 ug/L	99
66) 1,3-Dichloropropane	10.166	76	187753	38.58 ug/L	94
67) 1,2-Dibromoethane	10.349	107	107974	39.32 ug/L	95
68) 2-hexanone	10.472	43	312749	195.14 ug/L	97
69) 1-Chlorohexane	10.783	91	170085	36.47 ug/L	96
70) Ethylbenzene	10.848	91	659537	38.70 ug/L	99
71) Chlorobenzene	10.848	112	371756	40.28 ug/L	97
72) 1,1,1,2-Tetrachloroethane	10.901	131	120749	38.98 ug/L	94
73) m,p-Xylene	10.983	91	981438	77.83 ug/L	99
74) o-Xylene	11.424	91	511055	38.44 ug/L	98
75) Styrene	11.471	104	386486	38.71 ug/L	99
76) Bromoform	11.530	173	57654	37.86 ug/L	92
77) Isopropylbenzene	11.729	105	586255	36.83 ug/L	97
80) cis-1,4-Dichloro-2-butene	12.070	53	31136	31.37 ug/L	88
81) n-Propylbenzene	12.146	91	727982	38.84 ug/L	99
82) Bromobenzene	12.170	156	137304	40.64 ug/L	92
83) 1,1,2,2-Tetrachloroethane	12.205	83	138681	39.71 ug/L	99
84) 1,3,5-Trimethylbenzene	12.329	105	537756	40.71 ug/L	94
85) 2-Chlorotoluene	12.334	91	495870	39.30 ug/L	98
86) trans-1,4-Dichloro-2-B...	12.387	53	30680	33.46 ug/L	95
87) 1,2,3-Trichloropropane	12.370	110	36060	39.39 ug/L	84
88) Cyclohexanone	12.434	55	13749	153.59 ug/L	94
89) 4-Chlorotoluene	12.505	91	446156	36.71 ug/L	95
90) a-Methyl Styrene	12.593	118	284441	41.83 ug/L	97

SGS ACCUTEST FA34891

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\070116\
Data File : J0977779.D
Acq On : 1 Jul 2016 10:03 pm
Operator : darshnap
Sample : ecc5359-5 Inst : MSVOA6
Misc : MS34309,vj5359,,,,,
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Jul 05 07:43:28 2016
Quant Method : C:\msdchem\1\methods\MSJ070116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Jul 01 12:56:34 2016
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
91)	tert-Butylbenzene	12.669	91	278000	36.60	ug/L		95
92)	1,2,4-Trimethylbenzene	12.740	105	521339	38.47	ug/L		96
93)	Pentachloroethane	12.722	167	30509	16.10	ug/L		86
94)	sec-Butylbenzene	12.852	105	634312	38.13	ug/L		99
95)	4-Isopropyltoluene	12.987	119	519018	37.24	ug/L		98
96)	1,3-Dichlorobenzene	13.122	146	279186	41.49	ug/L		97
97)	1,4-Dichlorobenzene	13.204	146	273493	39.29	ug/L		94
98)	n-Butylbenzene	13.416	92	297909	37.82	ug/L		97
99)	Benzyl Chloride	13.433	126	33687	30.89	ug/L	#	90
100)	1,2-Dichlorobenzene	13.633	146	257354	40.81	ug/L		92
101)	1,2-Dibromo-3-Chloropr...	14.367	75	16963	37.62	ug/L	#	72
102)	Hexachlorobutadiene	14.914	225	70306	37.26	ug/L		86
103)	1,2,4-Trichlorobenzene	14.961	180	157467	40.61	ug/L		98
104)	Naphthalene	15.243	128	352140	50.84	ug/L		98
105)	1,2,3-Trichlorobenzene	15.413	180	124780	37.56	ug/L		98
107)	Ethanol	4.297	45	16392m	747.35	ug/L		
108)	acrolein	4.743	56	87471	199.10	ug/L		80
109)	Tert Butyl Alcohol	5.372	59	90935	479.12	ug/L		97
110)	tert Amyl alcohol	7.558	59	64060	411.98	ug/L		92
111)	Isobutyl alcohol	7.440	42	58066	812.47	ug/L	#	92
112)	1,4-Dioxane	8.656	88	16624	769.01	ug/L		77
113)	3,3-Dimethyl-1-butanol	10.419	57	445967	2007.49	ug/L		96

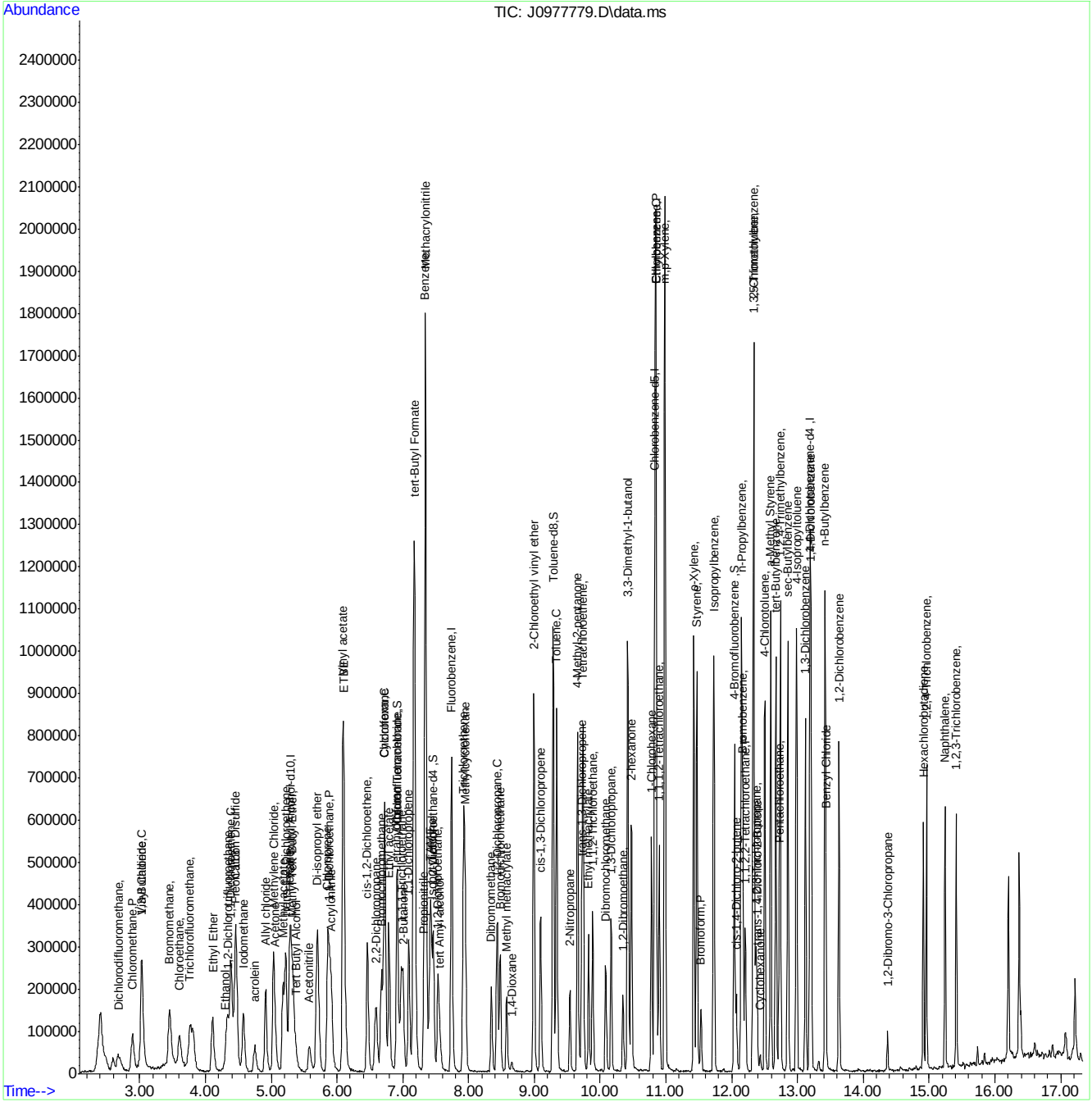
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST FA34891

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\070116\
Data File : J0977779.D
Acq On : 1 Jul 2016 10:03 pm
Operator : darshnap
Sample : ecc5359-5 Inst : MSVOA6
Misc : MS34309,vj5359,,,,,
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Jul 05 07:43:28 2016
Quant Method : C:\msdchem\1\methods\MSJ070116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Jul 01 12:56:34 2016
Response via : Initial Calibration



SGS ACCUTEST FA34891

Manual Integration Approval Summary

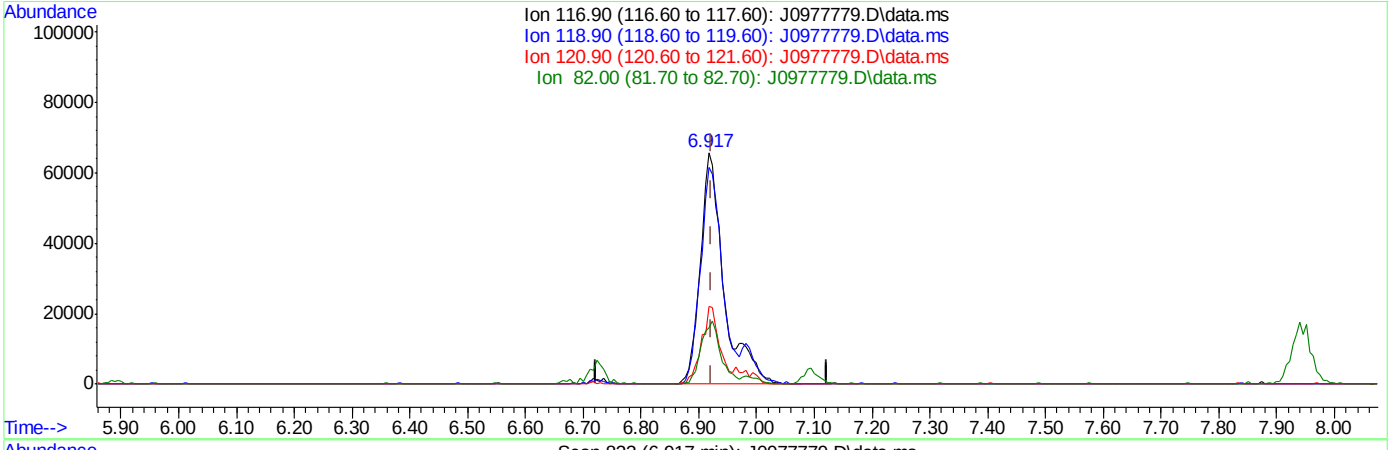
Sample Number:	VJ5359-ECC5359	**Method:**	SW846 8260B
Lab FileID:	J0977779.D	**Analyst approved:**	07/05/16 10:41 Darshna Patel
Injection Time:	07/01/16 22:03	**Supervisor approved:**	07/05/16 13:38 Juan Garcia

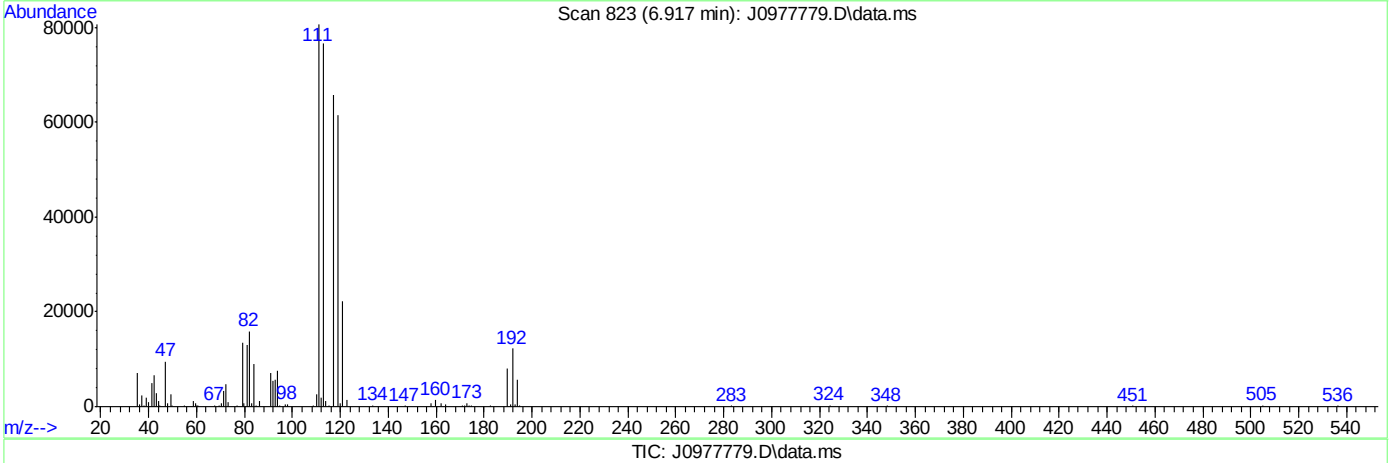
Parameter	CAS	Sig#	R.T. (min.)	Reason
Ethyl Alcohol	64-17-5		4.30	Poor instrument integration
Carbon Tetrachloride	56-23-5		6.92	Overlapping peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\070116\
Data File : J0977779.D
Acq On : 1 Jul 2016 10:03 pm
Operator : darshnap
Sample : ecc5359-5 Inst : MSVOA6
Misc : MS34309,vj5359,,,,,
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Jul 05 07:24:20 2016
Quant Method : C:\msdchem\1\methods\MSJ070116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Jul 01 12:56:34 2016
Response via : Initial Calibration





TIC: J0977779.D\data.ms

(37) Carbon Tetrachloride ( )

6.917min (-0.006) 40.15ug/L

response 188417

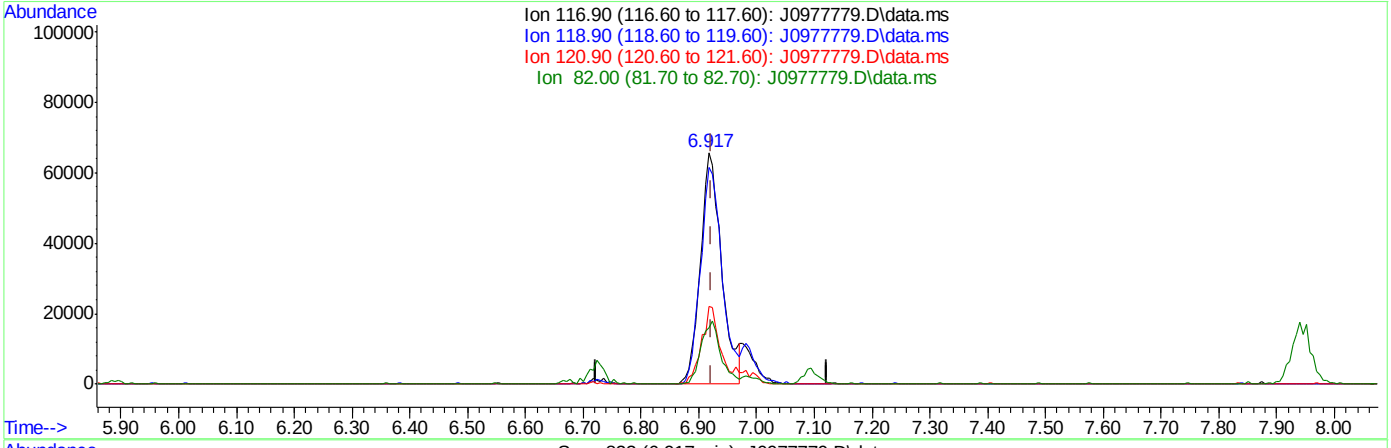
Ion	Exp%	Act%
116.90	100	100
118.90	94.30	93.35
120.90	30.90	33.72
82.00	27.90	23.82

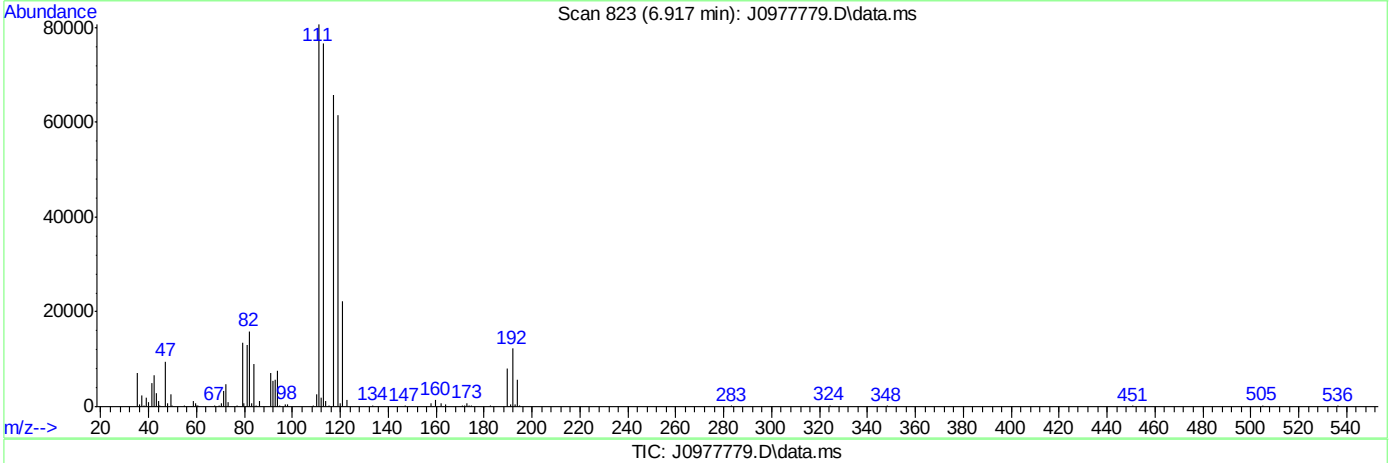
SGS ACCUTEST FA34891

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\070116\
Data File : J0977779.D
Acq On : 1 Jul 2016 10:03 pm
Operator : darshnap
Sample : ecc5359-5 Inst : MSVOA6
Misc : MS34309,vj5359,,,,,
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Jul 05 07:24:20 2016
Quant Method : C:\msdchem\1\methods\MSJ070116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Jul 01 12:56:34 2016
Response via : Initial Calibration





TIC: J0977779.D\data.ms

(37) Carbon Tetrachloride ( )

6.917min (-0.006) 36.33ug/L m

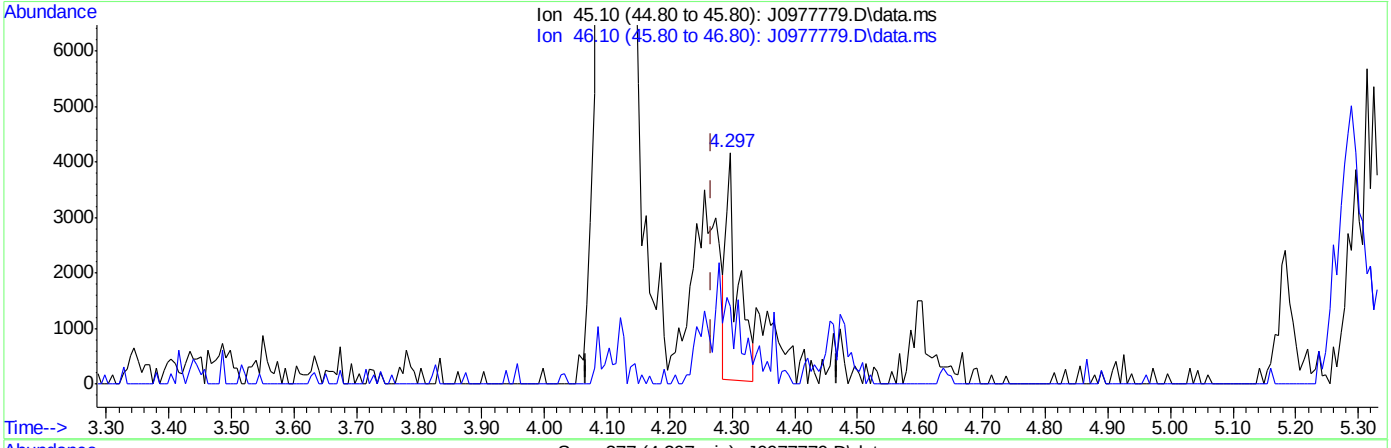
response 169099

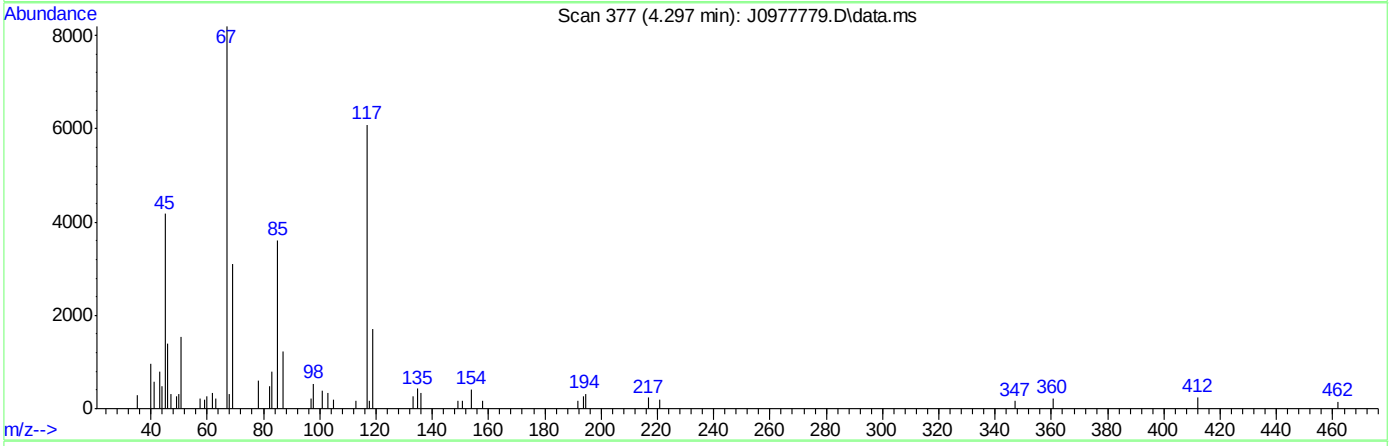
Ion	Exp%	Act%
116.90	100	100
118.90	94.30	93.35
120.90	30.90	33.72
82.00	27.90	24.20

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\070116\
Data File : J0977779.D
Acq On : 1 Jul 2016 10:03 pm
Operator : darshnap
Sample : ecc5359-5 Inst : MSVOA6
Misc : MS34309,vj5359,,,,,
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Jul 05 07:24:20 2016
Quant Method : C:\msdchem\1\methods\MSJ070116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Jul 01 12:56:34 2016
Response via : Initial Calibration





TIC: J0977779.D\data.ms

(107) Ethanol

4.297min (+0.030) 236.58ug/L

response 5189

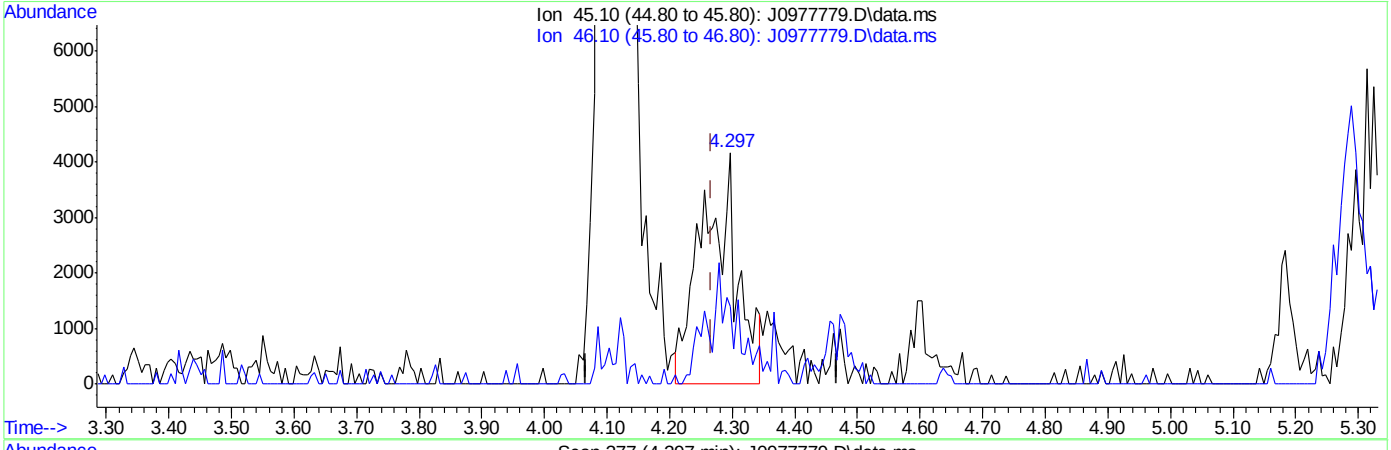
Ion	Exp%	Act%
45.10	100	100
46.10	24.20	30.64
0.00	0.00	0.00
0.00	0.00	0.00

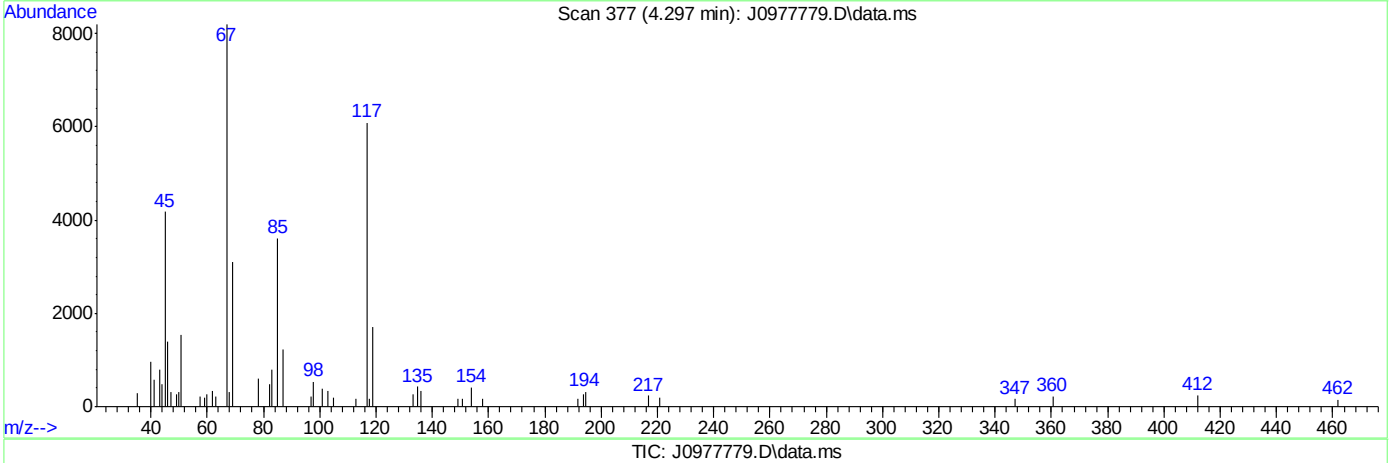
SGS ACCUTEST FA34891

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\070116\
Data File : J0977779.D
Acq On : 1 Jul 2016 10:03 pm
Operator : darshnap
Sample : ecc5359-5 Inst : MSVOA6
Misc : MS34309,vj5359,,,,,
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Jul 05 07:24:20 2016
Quant Method : C:\msdchem\1\methods\MSJ070116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Jul 01 12:56:34 2016
Response via : Initial Calibration





TIC: J0977779.D\data.ms

(107) Ethanol

4.297min (+0.030) 747.35ug/L m

response 16392

Ion	Exp%	Act%
45.10	100	100
46.10	24.20	33.61
0.00	0.00	0.00
0.00	0.00	0.00

SGS ACCUTEST FA34891

ACCUTEST LABORATORIES SE

DATE:	06-21-16
COLUMN TYPE:	RTX-DMS
DETECTOR:	5973 MSD
INSTRUMENT:	MSVOA6-J
PURGE PRESSURE:	11.1psi
ANALYST:	DP

1-12 pH
LOT 200814
0-3 pH
LOT 204413A

MS VOA6-J ANALYSIS LOG

METHODS:*	8260
METHOD FILE:	MSJ062116A.M
CALIB. DATE:	06-21-16
EM VOLTAGE:	1635 V
BFB RESPONSE:	1124242
RUN ID:	VJ5340

DP 06-21-16

STANDARDS

BFB:	V20346
ICAL/CCV:	V20357 V20359 V20312 V20356 V20351 V20352 V20350 V20349
ISTD/SURR:	V20363 V20346
ICV/QC:	~~V20337~~ V20320 V20311 V20305
Purge Volume	5.0ml V20294 V20296 V20362 V20306

DATA FILE	SAMPLE ID, DIL.	Vial #	MATRIX	ALS POS.	SAMPLE METHOD	MANUALLY INTEGRATED PEAKS RATIONALE, PEAK #	PH	CI ?	RR	COMMENTS
J09773350	BLK	N/A	H2O	1	8260		N/A	N/A		✓
J S1	BSB			1						Auto Passed
J S2	ICS340-1			1		PII(2)(8)(9)(17)(22)(52)(97)(108)(111)				0.5ul → 50ml
J S3	-2			2		PII(2) PII(107) (112)				2.5ul → 50ml
J S4	-3			3		OP(37) PII(107)				5ul → 50ml
J S5	-4			4		PII(107)				12.5ul → 50ml
J S6	-5			5		PII(107)				20ul → 50ml
J S7	-6			6		OP(37) PII(107)				35ul → 50ml
J S8	-7			7		OP(37) PII(107)				50ul → 50ml
J S9	BLK			8						✓
J 60	ICV S340-5			1		OP(37) PII(107)				25ul → 50ml ✓
J 61	BS			2		OP(37) PII(107)				12.5ul → 40ml ✓
J 62	MB	↓		3			↓	↓		ND
J 63	FA34698-1 MA	1		4			1	N		ND
J 64	-2 MA	2		4			1			✓
J 65	-3 MA	2		5		PII(106)	1			✓
J 66	-4 MA	2		6			1			✓
J 67	-5 MA	2		7			1			✓
J 68	-6 MA	2		8			1			✓
J 69	-7 MA	2		9			1			✓
J 70	-8 MA	1		10			1			✓
J 71	-9 MA	1		11			1			ND
J 72	-2MS MA	3		12		OP(37) PII(107)	1			12.5ul → 40ml ✓
J 73	-2MSD MA	3	DP 06-22-16	13		OP(37) PII(107)	1	↓		↓ ✓
J 74	ECS340-5	–		13	↓	OP(37) PII(107)	–	–		20ul → 50ml ✓
J										
J						06-22-16 DP				

* For NELAC purposes, Method 8260 includes analytes by SOP MS005 and Method 624 includes analytes by SOP MS003
Matrix: Designate "W" for Water, "S" for Soil, "O" for Oil, "Liq" for Non-aqueous Liquid, and "TCLP" or "SPLP" for Leachate
All strikeouts must be initialed and dated. If correction was not due to a transcription error, then list the reason for correction.
Manual Integration Rationale SOP QA029: **MP** Missed Peak, **OP** Overlapping Peak, **SP** Split Peak, **PDB** Poorly Defined Baseline, **BR** Baseline Ripple, **PII** Poor Instrument Integration

Analyst's Signature: DP

msvoa6_j_log.xls NF 06/10

ACCUTEST LABORATORIES SE

DATE:	06-20-16
COLUMN TYPE:	RTx-VMS
DETECTOR:	5973 MSD
INSTRUMENT:	MSVOA6-J
PURGE PRESSURE:	11.1psi
ANALYST:	DP

1-12 pH
LOT 200814
0-3 pH
LOT 204413A

MS VOA6-J ANALYSIS LOG

METHODS:*	8260
METHOD FILE:	MSJ062116A.M
CALIB. DATE:	06-21-16
EM VOLTAGE:	1635V
BFB RESPONSE:	1779062
RUN ID:	VJ5357/58

STANDARDS

BFB:	V20380D
ICAL/CCV:	V20375 V20393 V20341 V20394 V20374 V20356 V20350 V20340
ISTD/SURR:	V20400
ICV/QC:	V0384 V20390 V20398 V20397 V20388
Purge Volume	V20389 V20362 V20300

DATA FILE	SAMPLE ID, DIL.	Vial #	MATRIX	ALS POS.	SAMPLE METHOD	MANUALLY INTEGRATED PEAKS RATIONALE, PEAK #	PH	CI ?	RR	COMMENTS
J0977714	BLK/BFB	N/A	W	1	8260		N/A	N/A		Auto Passed
J 15	BLK			1						✓
J 16	CCS340-S			1		PII(107) OP37)				20ml→5ml
J 17	BS			2		PII(107)				12.5ml→40ml
J 18	MB			3						ND Surr↓
J 19	FA34867-32,100x	3		1						✓ E.comb.
J 20	FA34789-12	2		2						✓ Surr↓
J 21	FA34867-30	3		3						ND
J 22	-34	3		4						ND
J 23	FA34789-9	2		5						ND
J 24	FA34867-33, 20x	3		7		2.5ml→5ml				✓
J 25	FA34891-1MA	2		8		PII(104)				✓
J 26	FA34834-27	2		8						ND
J 27	~~329~~, 10x	3		9		5ml→5ml				✓
J 28	~~4~~30	2		10						✓
J 29	~~5~~26	2		11						ND
J 30	FA34891-~~6~~ 2, 5x	2		12		OP 06-30-16 ~~5ml~~ 10ml→5ml PII(106)(109)				✓
J 31	- ~~7~~ 3	3		13						✓
J 32	- ~~8~~ 4	2		14		PII(106)				✓
J 33	- ~~9~~ 5	2		15		PII(2)				✓
J 34	- 6	2		16						ND Surr↑
J 35	- 7	2		17						ND Surr↑
J 36	- 8	2		18		PII(12) (106) ~~X~~ OP 06-30-16			1X	✓ 15 fail
J 37	- 9	1		19					1X	ND
J 38	BLK ~~-2MSMA Sx~~ OP 06-30-16			20						ND
J 39	- 2MSD MA Sx OP 06-30-16	2		21		10ml→5ml PII(106)(107)				12.5ml→40ml ✓
J 40	- 2MSDMASx	2		21		OP 06-30-16 OP(37) PII(107) ~~5ml~~ 5ml→5ml OP06-30-16 PII(107)(106)				✓
41,42	FA34834-29ms/msD 10x	3		22						

Analyst's Signature: DP

* For NELAC purposes, Method 8260 includes analytes by SOP MS005 and Method 624 includes analytes by SOP MS003
Matrix: Designate "W" for Water, "S" for Soil, "O" for Oil, "Liq" for Non-aqueous Liquid, and "TCLP" or "SPLP" for Leachate
All strikeouts must be initialed and dated. If correction was not due to a transcription error, then list the reason for correction.
Manual Integration Rationale SOP QA029: **MP** Missed Peak, **OP** Overlapping Peak, **SP** Split Peak, **PDB** Poorly Defined Baseline, **BR** Baseline Ripple, **PII** Poor Instrument Integration

43 ECCS340-S — ↓ 23 ↓ msvoa6_i_log.xls NF 06/10 PII(107)(106) — — 20ml→5ml ✓

ACCUTEST LABORATORIES SE

DATE:	06-20-16
COLUMN TYPE:	RTx-VMS
DETECTOR:	5973 MSD
INSTRUMENT:	MSVOA6-J
PURGE PRESSURE:	11.1psi
ANALYST:	DP

1-12 pH
LOT 200814
0-3 pH
LOT 204413A

MS VOA6-J ANALYSIS LOG

METHODS:*	8260
METHOD FILE:	MSJ062116A.M
CALIB. DATE:	06-21-16
EM VOLTAGE:	1635V
BFB RESPONSE:	1779062
RUN ID:	VJ5357/58

STANDARDS

BFB:	V20380D
ICAL/CCV:	V20395 V20393 V20341 V20394 V20374 V20356 V20350 V20340
ISTD/SURR:	V20400
ICV/QC:	V0384 V20390 V20398 V20397 V20388
Purge Volume	V20389 V20362 V20300

DATA FILE	SAMPLE ID, DIL.	Vial #	MATRIX	ALS POS.	SAMPLE METHOD	MANUALLY INTEGRATED PEAKS RATIONALE, PEAK #	PH	CI ?	RR	COMMENTS
J0977714	BLK/BFB	N/A	W20	1	8260		N/A	N/A		Auto Passed
J 15	BLK			1						✓
J 16	CCS340-S			1		PII(107) OP37)				20ml→5ml
J 17	BS			2		PII(107)				12.5ml→40ml
J 18	MB			3						ND surr↓
J 19	FA34867-32,100x	3		1				N		✓ E.comb.
J 20	FA34789-12	2		2						✓ Surr↓
J 21	FA34867-30	3		3						ND
J 22	-24	3		4						ND
J 23	FA34789-9	2		5						ND
J 24	FA34867-33, 20x	3		7		2.5ml→5ml				✓
J 25	FA34891-1MA	2		8		PII(104)				✓
J 26	FA34834-27	2		8						ND
J 27	~~329~~, 10x	3		9		5ml→5ml				✓
J 28	~~4~~30	2		10						✓
J 29	~~5~~26	2		11						ND
J 30	FA34891-~~6~~2, 5x	2		12		OP06-30-16 ~~5m~~ 10ml→5ml PII(106)(109)				✓
J 31	-~~7~~3	3		13						✓
J 32	-~~8~~4	2		14		PII(106)				✓
J 33	-~~9~~5	2		15		PII(2)				✓
J 34	-6	2		16						ND Surr↑
J 35	-7	2		17						ND Surr↑
J 36	-8	2		18		PII(12)(106)~~(6)~~ OP06-30-16			1X	✓ 15 fail
J 37	-9	1		19					1X	ND
J 38	BLK ~~-2MS MA 5x~~ OP06-30-16	-		20						ND
J 39	-2ms~~D~~ MA 5x OP06-30-16	2		21		10ml→5ml PII(106)(107)				12.5ml→40ml ✓
J 40	-2MSDMA5x	2		21		OP06-30-16 OP(37) PII(107)				✓
41/42	FA34834-29ms/msD10x3			22		~~5~~ 5ml→5ml OP06-30-16 PII(107)(106)				✓
43	ECCS340-S			23		PII(107)(106)				20ml→5ml ✓

* For NELAC purposes, Method 8260 includes analytes by SOP MS005 and Method 624 includes analytes by SOP MS003

Matrix: Designate "W" for Water, "S" for Soil, "O" for Oil, "Liq" for Non-aqueous Liquid, and "TCLP" or "SPLP" for Leachate

All strikeouts must be initialed and dated. If correction was not due to a transcription error, then list the reason for correction.

Manual Integration Rationale SOP QA029: **MP** Missed Peak, **OP** Overlapping Peak, **SP** Split Peak, **PDB** Poorly Defined Baseline, **BR** Baseline Ripple, **PII** Poor Instrument Integration

Analyst's Signature: PDD

msvoa6_j_log.xls NF 06/10

ACCUTEST LABORATORIES SE

DATE:	07-01-16
COLUMN TYPE:	RTx-VMS
DETECTOR:	5973 MSD
INSTRUMENT:	MSVOA6-J
PURGE PRESSURE:	11.1psi
ANALYST:	DP

1-12 pH
LOT 200814
0-3 pH
LOT 204413A

MS VOA6-J ANALYSIS LOG

METHODS:*	8260
METHOD FILE:	MS5070146A.m
CALIB. DATE:	07-01-16
EM VOLTAGE:	1635V
BFB RESPONSE:	736982 / 774117
RUN ID:	VJ 5359 / 5360

STANDARDS

BFB:	V20400
ICAL/CCV:	V20395 V20393 V20374 V20354 V20356 V20401 V20350 V20349
ISTD/SURR:	V20400
ICV/QC:	V20390 V20399 V20397 V20398
Purge Volume	5.0ml V20388 V20389 V20362 V20360

DATA FILE	SAMPLE ID, DIL.	Vial #	MATRIX	ALS POS.	SAMPLE METHOD	MANUALLY INTEGRATED PEAKS RATIONALE, PEAK #	PH	CI ?	RR	COMMENTS
J0977744	BLK	N/A	W	1	8260		N/A	N/A		✓
J 45	BFB			1						Auto Passed
J 46	ICS359-1 / BFB			1		PII(4)(6)(8)(9)(30)(32)(33)(42)(49)				~~20ml→50ml~~ 0.5ml→50ml
J 47	-2			2		PII(107) OP(37)				2.5ml→50ml ✓
J 48	-3			3		PII(107) OP(37)				5ml→50ml ✓
J 49	-4			4		OP(37) PII(107) (110)				12.5ml→50ml ✓
J 50	-5			5		OP(37) PII(107) (110)				20ml→50ml ✓
J 51	-6			6		OP(37) PII(107) (110)				35ml→50ml ✓
J 52	-7			7		PII(107)(110)				50ml→50ml ✓
J 53	BLK			8						✓
J 54	ICS359-1			9						✓ 0.5ml→50ml
J 55	~~MB~~ ICV5359-5			1		PII(107) OP(37)				2.5ml→50ml
J 56	DP 07-01-16 ~~MB~~ BS			2		OP(37) PII(107)				12.5ml→40ml
J 57	MB			2						ND
J 58	FA35005-1			3		OP(32)	1	ND	20x	Naph.
J 59	FA34891-2 MA			4			1			✓
J 60	-8 MA			5			1			✓
J 61	-9 MA			6			1			ND
J 62	FA35005-2			7		PII(106)	1			✓
J 63	-3			8		PII(106)	1			ND
J 64	-4			9			1			ND
J 65	-5			10		DP 07-01-16	1		~~TX~~	Naph.
J 66	-6			11			1			✓
J 67	-7			12			1			ND
J 68	-8			13			G			ND
J 69	-9			14			1			✓
J 70	-10			15			1			ND

* For NELAC purposes, Method 8260 includes analytes by SOP MS005 and Method 624 includes analytes by SOP MS003
Matrix: Designate "W" for Water, "S" for Soil, "O" for Oil, "Liq" for Non-aqueous Liquid, and "TCLP" or "SPLP" for Leachate
All strikeouts must be initialed and dated. If correction was not due to a transcription error, then list the reason for correction.
Manual Integration Rationale SOP QA029: **MP** Missed Peak, **OP** Overlapping Peak, **SP** Split Peak, **PDB** Poorly Defined Baseline, **BR** Baseline Ripple, **PII** Poor Instrument Integration

Analyst's Signature: DP

msvoa6_j_log.xls NF 06/10

ACCUTEST LABORATORIES SE

DATE:	07-01-16
COLUMN TYPE:	RTX-UMS
DETECTOR:	5973 MSD
INSTRUMENT:	MSVOA6-J
PURGE PRESSURE:	11.1psi
ANALYST:	DP

MS VOA6-J ANALYSIS LOG

METHODS:*	8260
METHOD FILE:	MSJ0701 16A.M
CALIB. DATE:	07-01-16
EM VOLTAGE:	1635V
BFB RESPONSE:	736982
RUN ID:	VJ5359/5360

STANDARDS

BFB:	V20400
ICAL/CCV:	V20395 V20393 V20374 V20394 V20356 V20401 V20350 V20349
ISTD/SURR:	V20400
ICV/QC:	V20390 V20399 V20397 V20398
Purge Volume	5ml V20388 V20389 V20362 V20300

DATA FILE	SAMPLE ID, DIL.	Vial #	MATRIX	ALS POS.	SAMPLE METHOD	MANUALLY INTEGRATED PEAKS RATIONALE, PEAK #	PH	CI ?	RR	COMMENTS
J0977771	FA35005-11		H2O	16	8260	PII(106)	1	WD		✓
J 72	-12			17		PII(106)	1			✓
J 73	-13			18			1		1X	ND IS ↑
J 74	-14			19		07-01-16 DP	1		~~2X~~ 20X	Naph ↑
J 75	-15			20		~~0 of 12hrs window~~ DP 07-01-16	1		1X	CO
J 76	-16			21			1		~~1X~~	ND
J 77	-1MS			22		OP(37) PII(107)	1			12ml→40ml
J 78	-1MSD			22		OP(37) PII(107)	1			↓
J 79	Ecc 5359-5			23		OP(37) PII(107)	UR	N/A		20ml→50ml

07-01-16 DP

* For NELAC purposes, Method 8260 includes analytes by SOP MS005 and Method 624 includes analytes by SOP MS003
Matrix: Designate "W" for Water, "S" for Soil, "O" for Oil, "Liq" for Non-aqueous Liquid, and "TCLP" or "SPLP" for Leachate
All strikeouts must be initialed and dated. If correction was not due to a transcription error, then list the reason for correction.
Manual Integration Rationale SOP QA029: **MP** Missed Peak, **OP** Overlapping Peak, **SP** Split Peak, **PDB** Poorly Defined Baseline, **BR** Baseline Ripple, **PII** Poor Instrument Integration

Analyst's Signature: DP

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ACCUTEST LABORATORIES SE

DATE:	07-01-16
COLUMN TYPE:	RTX-VMS
DETECTOR:	5973 MSD
INSTRUMENT:	MSVOA6-J
PURGE PRESSURE:	11.1 psi
ANALYST:	DP

1-12 pH
LOT 200814
0-3 pH
LOT 204413A

MS VOA6-J ANALYSIS LOG

METHODS:*	8260
METHOD FILE:	MS5070116A.m
CALIB. DATE:	07-01-16
EM VOLTAGE:	1635V
BFB RESPONSE:	736982 / 774117
RUN ID:	VJ 5359 / 5360

STANDARDS

BFB:	V20400
ICAL/CCV:	V20395 V20393 V20374 V20396 V20356 V20401 V20350 V20349
ISTD/SURR:	V20400
ICV/QC:	V20390 V20399 V20397 V20398
Purge Volume	5.0ml V20388 V20389 V20362 V20360

DATA FILE	SAMPLE ID, DIL.	Vial #	MATRIX	ALS POS.	SAMPLE METHOD	MANUALLY INTEGRATED PEAKS RATIONALE, PEAK #	PH	CI ?	RR	COMMENTS
J0977744	BLK	N/A	W	1	8260		N/A	N/A		✓
J 45	BFB			1						Auto Passed
J 46	ICS359-1 / BFB			1		PII(4)(6)(8)(9)(30)(32)(35)(42)(44)				~~20ml→50ml~~ 0.5ml→50ml
J 47	-2			2		PII(107) OP(37)				2.5ml→50ml ✓
J 48	-3			3		PII(107) OP(37)				5ml→50ml ✓
J 49	-4			4		OP(37) PII(107) (110)				12.5ml→50ml ✓
J 50	-5			5		OP(37) PII(107) (110)				20ml→50ml ✓
J 51	-6			6		OP(37) PII(107) (110)				35ml→50ml ✓
J 52	-7			7		PII(107)(110)				50ml→50ml ✓
J 53	BLK			8						✓
J 54	ICS359-1			9						✓ 0.5ml→50ml
J 55	~~MB~~ ICV5359-5			1		PII(107) OP(37)				2.5ml→50ml
J 56	DP 07-01-16 ~~MB~~ BS			2		OP(37) PII(107)				12.5ml→40ml
J 57	MB			2						ND
J 58	FA35005-1			3		OP(32)	1	ND	20x	Naph.
J 59	FA34891-2 mA			4			1			✓
J 60	-8 mA			5			1			✓
J 61	-9 mA			6			1			ND
J 62	FA35005-2			7		PII(106)	1			✓
J 63	-3			8		PII(106)	1			ND
J 64	-4			9			1			ND
J 65	-5			10		DP 07-01-16	1		~~TX~~	Naph.
J 66	-6			11			1			✓
J 67	-7			12			1			ND
J 68	-8			13			G			ND
J 69	-9			14			1			✓
J 70	-10			15			1			ND

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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

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ACCUTEST LABORATORIES SE

DATE:	07-01-16
COLUMN TYPE:	RTX-UMS
DETECTOR:	5973 MSD
INSTRUMENT:	MSVOA6-J
PURGE PRESSURE:	11.1psi
ANALYST:	DP

MS VOA6-J ANALYSIS LOG

METHODS:*	8260
METHOD FILE:	MSJ070116A.m
CALIB. DATE:	07-01-16
EM VOLTAGE:	1635V
BFB RESPONSE:	736982
RUN ID:	VJ5359/5360

STANDARDS

BFB:	V20400
ICAL/CCV:	V20395 V20393 V20374 V20394 V20356 V20401 V20350 V20349
ISTD/SURR:	V20400
ICV/QC:	V20390 V20399 V20397 V20398
Purge Volume 5ml	V20388 V20389 V20362 V20300

DATA FILE	SAMPLE ID, DIL.	Vial #	MATRIX	ALS POS.	SAMPLE METHOD	MANUALLY INTEGRATED PEAKS RATIONALE, PEAK #	PH	CI ?	RR	COMMENTS
J0977771	FA35005-11		H2O	16	8260	PII(106)	1	WN		✓
J 72	-12			17		PII(106)	1			✓
J 73	-13			18			1		1X	ND 1s ↑
J 74	-14			19		02 OP 01/16	1		~~2ox~~ 3ox	Naph ↑
J 75	-15			20		~~OP (12hrs window)~~	1		1X	CO
J 76	-16			21		↓ DP 07-01-16	1		~~1X~~	ND
J 77	-1MS			22		OP(37) PII(107)	1			12Syl→40ml
J 78	-1MSD			22		OP(37) PII(107)	1			↓
J 79	Ecc 5359-5			23		OP(37) PII(107)	VA	N/A		20ml→50ml

07-01-16 DP

* For NELAC purposes, Method 8260 includes analytes by SOP MS005 and Method 624 includes analytes by SOP MS003
Matrix: Designate "W" for Water, "S" for Soil, "O" for Oil, "Liq" for Non-aqueous Liquid, and "TCLP" or "SPLP" for Leachate
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Analyst's Signature: DP

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