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Automated Report

Technical Report for

Anderson, Mulholland & Associates

BMSMC, Building 5 Area, PR

SM04.00.06

SGS Accutest Job Number: JC21347

Sampling Dates: 05/31/16 - 06/01/16

Report to:

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ATTN: Terry Taylor

Total number of pages in report: **901**

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

Nancy Cole
Laboratory Director

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Certifications: NJ(12129), NY(10983), CA, CT, DE, FL, IL, IN, KS, KY, LA, MA, MD, MI, MT, NC, OH VAP (CL0056), AK (UST-103), AZ (AZ0786), PA, RI, SC, TN, TX, VA, WV, DoD ELAP (L-A-B L2248)

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SGS Accutest

Sample Summary

Anderson, Mulholland & Associates

Job No: JC21347

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

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
JC21347-1	05/31/16	14:55	TT	06/02/16	AQ	Ground Water	SB101-GWS
JC21347-2	06/01/16	11:00	TT	06/02/16	SO	Soil	RA12(15-16)
JC21347-3	06/01/16	13:50	TT	06/02/16	AQ	Ground Water	RA12-GWS

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

CASE NARRATIVE / CONFORMANCE SUMMARY

Client:	Anderson, Mulholland & Associates	**Job No**	JC21347
Site:	BMSMC, Building 5 Area, PR	**Report Date**	6/16/2016 10:12:58 A

On 06/02/2016, 3 Sample(s), 0 Trip Blank(s) and 0 Field Blank(s) were received at SGS Accutest at a maximum corrected temperature of 5.6 C. Samples were intact and chemically preserved, unless noted below. A SGS Accutest Job Number of JC21347 was assigned to the project. Laboratory sample ID, client sample ID and dates of sample collection are detailed in the report's Results Summary Section.

Specified quality control criteria were achieved for this job except as noted below. For more information, please refer to the analytical results and QC summary pages.

Extractables by GCMS By Method SW846 8270D

Matrix: AQ **Batch ID:** OP94425

- All samples were extracted within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JC21116-5MS, JC21116-5MSD were used as the QC samples indicated.
- RPD(s) for MSD for 1,1'-Biphenyl, 1,2,4,5-Tetrachlorobenzene, 2,3,4,6-Tetrachlorophenol, 2,4,5-Trichlorophenol, 2,4,6-Trichlorophenol, 2,4-Dichlorophenol, 2,4-Dinitrophenol, 2-Chloronaphthalene, 2-Methylnaphthalene, 2-Nitroaniline, 2-Nitrophenol, 3&4-Methylphenol, 4-Bromophenyl phenyl ether, 4-Chloro-3-methyl phenol, 4-Chlorophenyl phenyl ether, Acenaphthene, Acenaphthylene, Acetophenone, Atrazine, bis(2-Chloroethoxy)methane, Carbazole, Di-n-butyl phthalate, Dibenzofuran, Fluorene, Isophorone, N-Nitroso-di-n-propylamine, Pentachlorophenol, Phenanthrene are outside control limits for sample OP94425-MSD. Analytical precision exceeds in-house control limits.

Matrix: SO **Batch ID:** OP94471

- All samples were extracted within the recommended method holding time.
- Sample(s) JC21338-1AMS, JC21338-1AMSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.

Extractables by GCMS By Method SW846 8270D BY SIM

Matrix: AQ **Batch ID:** OP94425A

- All samples were extracted within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JC21116-6MS, JC21116-6MSD were used as the QC samples indicated.

Matrix: SO **Batch ID:** OP94471A

- All samples were extracted within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JC21347-2MS, JC21347-2MSD were used as the QC samples indicated.
- JC21347-2 for 1,4-Dioxane: Not accredited for this compound at the time of analysis, but all method requirements were followed.

Volatiles by GC By Method SW846-8015C (DAI)

Matrix: AQ	Batch ID: GGH5309

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JC21347-1MS, JC21347-1MSD were used as the QC samples indicated.

Matrix: SO	Batch ID: GGH5310

- All samples were analyzed within the recommended method holding time.
- Sample(s) JC21347-2MS, JC21347-2MSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.

Extractables by GC By Method SW846 8081B

Matrix: AQ	Batch ID: OP94431

- All samples were extracted within the recommended method holding time.
- Sample(s) JC21347-3MS, JC21347-3MSD, OP94431-MSMSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.

Matrix: SO	Batch ID: OP94442

- All samples were extracted within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JC21347-2MS, JC21347-2MSD, OP94442-MSMSD were used as the QC samples indicated.

Wet Chemistry By Method SM2540 G-97

Matrix: SO	Batch ID: GN47068

- The data for SM2540 G-97 meets quality control requirements.

SGS Accutest certifies that data reported for samples received, listed on the associated custody chain or analytical task order, were produced to specifications meeting the Quality System precision, accuracy and completeness objectives except as noted.

Estimated non-standard method measurement uncertainty data is available on request, based on quality control bias and implicit for standard methods. Acceptable uncertainty requires tested parameter quality control data to meet method criteria.

SGS Accutest is not responsible for data quality assumptions if partial reports are used and recommends that this report be used in its entirety. Data release is authorized by SGS Accutest indicated via signature on the report cover

Summary of Hits

Job Number: JC21347
Account: Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR
Collected: 05/31/16 thru 06/01/16

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Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
JC21347-1	**SB101-GWS**					
Naphthalene		0.161	0.11	0.031	ug/l	SW846 8270D BY SIM
1,4-Dioxane		0.639	0.11	0.051	ug/l	SW846 8270D BY SIM
Methanol		308	200	71	ug/l	SW846-8015C (DAI)
JC21347-2	**RA12(15-16)**					
No hits reported in this sample.						
JC21347-3	**RA12-GWS**					
1,4-Dioxane		24.0	1.1	0.73	ug/l	SW846 8270D

Sample Results

Report of Analysis

SGS Accutest

Report of Analysis

Client Sample ID:	SB101-GWS		
Lab Sample ID:	JC21347-1	**Date Sampled:**	05/31/16
Matrix:	AQ - Ground Water	**Date Received:**	06/02/16
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	BMSMC, Building 5 Area, PR		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	F157721.D	1	06/03/16	JJ	06/02/16	OP94425	EF6637
Run #2							

	Initial Volume	Final Volume
Run #1	950 ml	1.0 ml
Run #2		

ABN TCL Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	5.3	0.86	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	5.3	0.94	ug/l	
120-83-2	2,4-Dichlorophenol	ND	2.1	1.3	ug/l	
105-67-9	2,4-Dimethylphenol	ND	5.3	2.6	ug/l	
51-28-5	2,4-Dinitrophenol	ND	11	1.6	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	5.3	1.4	ug/l	
95-48-7	2-Methylphenol	ND	2.1	0.93	ug/l	
	3&4-Methylphenol	ND	2.1	0.93	ug/l	
88-75-5	2-Nitrophenol	ND	5.3	1.0	ug/l	
100-02-7	4-Nitrophenol	ND	11	1.2	ug/l	
87-86-5	Pentachlorophenol	ND	5.3	1.5	ug/l	
108-95-2	Phenol	ND	2.1	0.41	ug/l	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	5.3	1.5	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	5.3	1.4	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	5.3	0.97	ug/l	
83-32-9	Acenaphthene	ND	1.1	0.20	ug/l	
208-96-8	Acenaphthylene	ND	1.1	0.14	ug/l	
98-86-2	Acetophenone	ND	2.1	0.22	ug/l	
120-12-7	Anthracene	ND	1.1	0.22	ug/l	
1912-24-9	Atrazine	ND	2.1	0.47	ug/l	
100-52-7	Benzaldehyde	ND	5.3	0.30	ug/l	
56-55-3	Benzo(a)anthracene	ND	1.1	0.21	ug/l	
50-32-8	Benzo(a)pyrene	ND	1.1	0.22	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	1.1	0.22	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	1.1	0.36	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	1.1	0.22	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	2.1	0.43	ug/l	
85-68-7	Butyl benzyl phthalate	ND	2.1	0.48	ug/l	
92-52-4	1,1'-Biphenyl	ND	1.1	0.22	ug/l	
91-58-7	2-Chloronaphthalene	ND	2.1	0.25	ug/l	
106-47-8	4-Chloroaniline	ND	5.3	0.36	ug/l	
86-74-8	Carbazole	ND	1.1	0.24	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:	SB101-GWS		
Lab Sample ID:	JC21347-1	**Date Sampled:**	05/31/16
Matrix:	AQ - Ground Water	**Date Received:**	06/02/16
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	BMSMC, Building 5 Area, PR		

ABN TCL Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
105-60-2	Caprolactam	ND	2.1	0.68	ug/l	
218-01-9	Chrysene	ND	1.1	0.19	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	2.1	0.29	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	2.1	0.26	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	2.1	0.42	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	2.1	0.39	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	1.1	0.58	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	1.1	0.50	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	2.1	0.53	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	1.1	0.35	ug/l	
132-64-9	Dibenzofuran	ND	5.3	0.23	ug/l	
84-74-2	Di-n-butyl phthalate	ND	2.1	0.52	ug/l	
117-84-0	Di-n-octyl phthalate	ND	2.1	0.25	ug/l	
84-66-2	Diethyl phthalate	ND	2.1	0.28	ug/l	
131-11-3	Dimethyl phthalate	ND	2.1	0.23	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.1	1.7	ug/l	
206-44-0	Fluoranthene	ND	1.1	0.18	ug/l	
86-73-7	Fluorene	ND	1.1	0.18	ug/l	
118-74-1	Hexachlorobenzene	ND	1.1	0.34	ug/l	
87-68-3	Hexachlorobutadiene	ND	1.1	0.52	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	11	2.9	ug/l	
67-72-1	Hexachloroethane	ND	2.1	0.41	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	1.1	0.35	ug/l	
78-59-1	Isophorone	ND	2.1	0.29	ug/l	
90-12-0	1-Methylnaphthalene	ND	1.1	0.28	ug/l	
91-57-6	2-Methylnaphthalene	ND	1.1	0.22	ug/l	
88-74-4	2-Nitroaniline	ND	5.3	0.29	ug/l	
99-09-2	3-Nitroaniline	ND	5.3	0.41	ug/l	
100-01-6	4-Nitroaniline	ND	5.3	0.46	ug/l	
98-95-3	Nitrobenzene	ND	2.1	0.68	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	2.1	0.51	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.3	0.23	ug/l	
85-01-8	Phenanthrene	ND	1.1	0.18	ug/l	
129-00-0	Pyrene	ND	1.1	0.23	ug/l	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	2.1	0.39	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	34%		14-88%
4165-62-2	Phenol-d5	26%		10-110%

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:	SB101-GWS		
Lab Sample ID:	JC21347-1	**Date Sampled:**	05/31/16
Matrix:	AQ - Ground Water	**Date Received:**	06/02/16
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	BMSMC, Building 5 Area, PR		

ABN TCL Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	77%		39-149%
4165-60-0	Nitrobenzene-d5	62%		32-128%
321-60-8	2-Fluorobiphenyl	51%		35-119%
1718-51-0	Terphenyl-d14	54%		10-126%

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:	SB101-GWS		
Lab Sample ID:	JC21347-1	**Date Sampled:**	05/31/16
Matrix:	AQ - Ground Water	**Date Received:**	06/02/16
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	BMSMC, Building 5 Area, PR		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3M61912.D	1	06/03/16	AD	06/02/16	OP94425A	E3M2918
Run #2							

	Initial Volume	Final Volume
Run #1	950 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
91-20-3	Naphthalene	0.161	0.11	0.031	ug/l	
123-91-1	1,4-Dioxane	0.639	0.11	0.051	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	48%		24-125%
321-60-8	2-Fluorobiphenyl	52%		19-127%
1718-51-0	Terphenyl-d14	56%		10-119%

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:	SB101-GWS		
Lab Sample ID:	JC21347-1	**Date Sampled:**	05/31/16
Matrix:	AQ - Ground Water	**Date Received:**	06/02/16
Method:	SW846-8015C (DAI)	**Percent Solids:**	n/a
Project:	BMSMC, Building 5 Area, PR		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	GH105343.D	1	06/02/16	XPL	n/a	n/a	GGH5309
Run #2							

Low Molecular Alcohol List

CAS No.	Compound	Result	RL	MDL	Units	Q
64-17-5	Ethanol	ND	100	55	ug/l	
78-83-1	Isobutyl Alcohol	ND	100	36	ug/l	
67-63-0	Isopropyl Alcohol	ND	100	68	ug/l	
71-23-8	n-Propyl Alcohol	ND	100	43	ug/l	
71-36-3	n-Butyl Alcohol	ND	100	87	ug/l	
78-92-2	sec-Butyl Alcohol	ND	100	66	ug/l	
67-56-1	Methanol	308	200	71	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
111-27-3	Hexanol	84%		56-145%
111-27-3	Hexanol	88%		56-145%

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:	RA12(15-16)		
Lab Sample ID:	JC21347-2	**Date Sampled:**	06/01/16
Matrix:	SO - Soil	**Date Received:**	06/02/16
Method:	SW846 8270D SW846 3546	**Percent Solids:**	77.6
Project:	BMSMC, Building 5 Area, PR		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2P59954.D	1	06/08/16	RL	06/04/16	OP94471	E2P2614
Run #2							

	Initial Weight	Final Volume
Run #1	30.1 g	1.0 ml
Run #2		

ABN TCL Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	86	21	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	210	26	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	210	37	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	210	76	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	210	160	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	210	46	ug/kg	
95-48-7	2-Methylphenol	ND	86	27	ug/kg	
	3&4-Methylphenol	ND	86	35	ug/kg	
88-75-5	2-Nitrophenol	ND	210	28	ug/kg	
100-02-7	4-Nitrophenol	ND	430	110	ug/kg	
87-86-5	Pentachlorophenol	ND	210	40	ug/kg	
108-95-2	Phenol	ND	86	22	ug/kg	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	210	28	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	210	32	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	210	26	ug/kg	
83-32-9	Acenaphthene	ND	43	15	ug/kg	
208-96-8	Acenaphthylene	ND	43	22	ug/kg	
98-86-2	Acetophenone	ND	210	9.2	ug/kg	
120-12-7	Anthracene	ND	43	26	ug/kg	
1912-24-9	Atrazine	ND	86	18	ug/kg	
56-55-3	Benzo(a)anthracene	ND	43	12	ug/kg	
50-32-8	Benzo(a)pyrene	ND	43	19	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	43	19	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	43	21	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	43	20	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	86	17	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	86	10	ug/kg	
92-52-4	1,1'-Biphenyl	ND	86	5.9	ug/kg	
100-52-7	Benzaldehyde	ND	210	11	ug/kg	
91-58-7	2-Chloronaphthalene	ND	86	10	ug/kg	
106-47-8	4-Chloroaniline	ND	210	15	ug/kg	
86-74-8	Carbazole	ND	86	6.2	ug/kg	

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

Report of Analysis

Client Sample ID:	RA12(15-16)		
Lab Sample ID:	JC21347-2	**Date Sampled:**	06/01/16
Matrix:	SO - Soil	**Date Received:**	06/02/16
Method:	SW846 8270D SW846 3546	**Percent Solids:**	77.6
Project:	BMSMC, Building 5 Area, PR		

ABN TCL Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
105-60-2	Caprolactam	ND	86	17	ug/kg	
218-01-9	Chrysene	ND	43	13	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	86	9.2	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	86	18	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	86	15	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	86	14	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	43	13	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	43	21	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	86	36	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	43	19	ug/kg	
132-64-9	Dibenzofuran	ND	86	17	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	86	7.0	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	86	11	ug/kg	
84-66-2	Diethyl phthalate	ND	86	9.1	ug/kg	
131-11-3	Dimethyl phthalate	ND	86	7.6	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	86	10	ug/kg	
206-44-0	Fluoranthene	ND	43	19	ug/kg	
86-73-7	Fluorene	ND	43	20	ug/kg	
118-74-1	Hexachlorobenzene	ND	86	11	ug/kg	
87-68-3	Hexachlorobutadiene	ND	43	17	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	430	17	ug/kg	
67-72-1	Hexachloroethane	ND	210	21	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	43	20	ug/kg	
78-59-1	Isophorone	ND	86	9.2	ug/kg	
90-12-0	1-Methylnaphthalene	ND	86	8.4	ug/kg	
91-57-6	2-Methylnaphthalene	ND	86	9.7	ug/kg	
88-74-4	2-Nitroaniline	ND	210	10	ug/kg	
99-09-2	3-Nitroaniline	ND	210	11	ug/kg	
100-01-6	4-Nitroaniline	ND	210	11	ug/kg	
98-95-3	Nitrobenzene	ND	86	17	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	86	12	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	210	16	ug/kg	
85-01-8	Phenanthrene	ND	43	14	ug/kg	
129-00-0	Pyrene	ND	43	14	ug/kg	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	210	11	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	72%		30-106%
4165-62-2	Phenol-d5	76%		30-106%

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:	RA12(15-16)		
Lab Sample ID:	JC21347-2	**Date Sampled:**	06/01/16
Matrix:	SO - Soil	**Date Received:**	06/02/16
Method:	SW846 8270D SW846 3546	**Percent Solids:**	77.6
Project:	BMSMC, Building 5 Area, PR		

ABN TCL Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	96%		24-140%
4165-60-0	Nitrobenzene-d5	83%		26-122%
321-60-8	2-Fluorobiphenyl	91%		36-112%
1718-51-0	Terphenyl-d14	99%		36-132%

ND = Not detected MDL = Method Detection Limit
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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:	RA12(15-16)		
Lab Sample ID:	JC21347-2	**Date Sampled:**	06/01/16
Matrix:	SO - Soil	**Date Received:**	06/02/16
Method:	SW846 8270D BY SIM SW846 3546	**Percent Solids:**	77.6
Project:	BMSMC, Building 5 Area, PR		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3M62165.D	1	06/11/16	JJ	06/04/16	OP94471A	E3M2930
Run #2							

	Initial Weight	Final Volume
Run #1	30.1 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
123-91-1	1,4-Dioxane [a]	ND	4.3	0.86	ug/kg	
91-20-3	Naphthalene	ND	4.3	0.52	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	82%		15-138%
321-60-8	2-Fluorobiphenyl	91%		12-148%
1718-51-0	Terphenyl-d14	98%		10-157%

(a) Not accredited for this compound at the time of analysis, but all method requirements were followed.

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:	RA12(15-16)		
Lab Sample ID:	JC21347-2	**Date Sampled:**	06/01/16
Matrix:	SO - Soil	**Date Received:**	06/02/16
Method:	SW846-8015C (DAI)	**Percent Solids:**	77.6
Project:	BMSMC, Building 5 Area, PR		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	GH105352.D	1	06/03/16	XPL	n/a	n/a	GGH5310
Run #2							

	Initial Weight
Run #1	5.0 g
Run #2	

Low Molecular Alcohol List

CAS No.	Compound	Result	RL	MDL	Units	Q
64-17-5	Ethanol	ND	130	89	ug/kg	
78-83-1	Isobutyl Alcohol	ND	130	76	ug/kg	
67-63-0	Isopropyl Alcohol	ND	130	74	ug/kg	
71-23-8	n-Propyl Alcohol	ND	130	52	ug/kg	
71-36-3	n-Butyl Alcohol	ND	130	70	ug/kg	
78-92-2	sec-Butyl Alcohol	ND	130	69	ug/kg	
67-56-1	Methanol	ND	260	62	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
111-27-3	Hexanol	104%		52-141%
111-27-3	Hexanol	107%		52-141%

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:	RA12(15-16)		
Lab Sample ID:	JC21347-2	**Date Sampled:**	06/01/16
Matrix:	SO - Soil	**Date Received:**	06/02/16
Method:	SW846 8081B SW846 3546	**Percent Solids:**	77.6
Project:	BMSMC, Building 5 Area, PR		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	1G123987.D	1	06/08/16	KD	06/03/16	OP94442	G1G4005
Run #2							

	Initial Weight	Final Volume
Run #1	16.0 g	10.0 ml
Run #2		

Pesticide TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
309-00-2	Aldrin	ND	0.81	0.72	ug/kg	
319-84-6	alpha-BHC	ND	0.81	0.54	ug/kg	
319-85-7	beta-BHC	ND	0.81	0.50	ug/kg	
319-86-8	delta-BHC	ND	0.81	0.32	ug/kg	
58-89-9	gamma-BHC (Lindane)	ND	0.81	0.37	ug/kg	
5103-71-9	alpha-Chlordane	ND	0.81	0.43	ug/kg	
5103-74-2	gamma-Chlordane	ND	0.81	0.61	ug/kg	
60-57-1	Dieldrin	ND	0.81	0.63	ug/kg	
72-54-8	4,4'-DDD	ND	0.81	0.30	ug/kg	
72-55-9	4,4'-DDE	ND	0.81	0.27	ug/kg	
50-29-3	4,4'-DDT	ND	0.81	0.31	ug/kg	
72-20-8	Endrin	ND	0.81	0.28	ug/kg	
1031-07-8	Endosulfan sulfate	ND	0.81	0.46	ug/kg	
7421-93-4	Endrin aldehyde	ND	0.81	0.60	ug/kg	
959-98-8	Endosulfan-I	ND	0.81	0.26	ug/kg	
33213-65-9	Endosulfan-II	ND	0.81	0.76	ug/kg	
76-44-8	Heptachlor	ND	0.81	0.66	ug/kg	
1024-57-3	Heptachlor epoxide	ND	0.81	0.33	ug/kg	
72-43-5	Methoxychlor	ND	1.6	0.45	ug/kg	
53494-70-5	Endrin ketone	ND	0.81	0.42	ug/kg	
8001-35-2	Toxaphene	ND	20	14	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	73%		24-136%
877-09-8	Tetrachloro-m-xylene	71%		24-136%
2051-24-3	Decachlorobiphenyl	69%		10-153%
2051-24-3	Decachlorobiphenyl	81%		10-153%

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:	RA12-GWS		
Lab Sample ID:	JC21347-3	**Date Sampled:**	06/01/16
Matrix:	AQ - Ground Water	**Date Received:**	06/02/16
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	BMSMC, Building 5 Area, PR		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	F157722.D	1	06/03/16	JJ	06/02/16	OP94425	EF6637
Run #2							

	Initial Volume	Final Volume
Run #1	900 ml	1.0 ml
Run #2		

ABN TCL Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	5.6	0.91	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	5.6	0.99	ug/l	
120-83-2	2,4-Dichlorophenol	ND	2.2	1.4	ug/l	
105-67-9	2,4-Dimethylphenol	ND	5.6	2.7	ug/l	
51-28-5	2,4-Dinitrophenol	ND	11	1.7	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	5.6	1.4	ug/l	
95-48-7	2-Methylphenol	ND	2.2	0.99	ug/l	
	3&4-Methylphenol	ND	2.2	0.98	ug/l	
88-75-5	2-Nitrophenol	ND	5.6	1.1	ug/l	
100-02-7	4-Nitrophenol	ND	11	1.3	ug/l	
87-86-5	Pentachlorophenol	ND	5.6	1.5	ug/l	
108-95-2	Phenol	ND	2.2	0.44	ug/l	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	5.6	1.6	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	5.6	1.5	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	5.6	1.0	ug/l	
83-32-9	Acenaphthene	ND	1.1	0.21	ug/l	
208-96-8	Acenaphthylene	ND	1.1	0.15	ug/l	
98-86-2	Acetophenone	ND	2.2	0.23	ug/l	
120-12-7	Anthracene	ND	1.1	0.23	ug/l	
1912-24-9	Atrazine	ND	2.2	0.50	ug/l	
100-52-7	Benzaldehyde	ND	5.6	0.32	ug/l	
56-55-3	Benzo(a)anthracene	ND	1.1	0.23	ug/l	
50-32-8	Benzo(a)pyrene	ND	1.1	0.24	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	1.1	0.23	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	1.1	0.38	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	1.1	0.23	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	2.2	0.45	ug/l	
85-68-7	Butyl benzyl phthalate	ND	2.2	0.51	ug/l	
92-52-4	1,1'-Biphenyl	ND	1.1	0.24	ug/l	
91-58-7	2-Chloronaphthalene	ND	2.2	0.26	ug/l	
106-47-8	4-Chloroaniline	ND	5.6	0.38	ug/l	
86-74-8	Carbazole	ND	1.1	0.25	ug/l	

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Report of Analysis

Client Sample ID:	RA12-GWS		
Lab Sample ID:	JC21347-3	**Date Sampled:**	06/01/16
Matrix:	AQ - Ground Water	**Date Received:**	06/02/16
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	BMSMC, Building 5 Area, PR		

ABN TCL Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
105-60-2	Caprolactam	ND	2.2	0.72	ug/l	
218-01-9	Chrysene	ND	1.1	0.20	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	2.2	0.31	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	2.2	0.28	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	2.2	0.45	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	2.2	0.41	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	1.1	0.61	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	1.1	0.53	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	2.2	0.56	ug/l	
123-91-1	1,4-Dioxane	24.0	1.1	0.73	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	1.1	0.37	ug/l	
132-64-9	Dibenzofuran	ND	5.6	0.24	ug/l	
84-74-2	Di-n-butyl phthalate	ND	2.2	0.55	ug/l	
117-84-0	Di-n-octyl phthalate	ND	2.2	0.26	ug/l	
84-66-2	Diethyl phthalate	ND	2.2	0.29	ug/l	
131-11-3	Dimethyl phthalate	ND	2.2	0.24	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.2	1.8	ug/l	
206-44-0	Fluoranthene	ND	1.1	0.19	ug/l	
86-73-7	Fluorene	ND	1.1	0.19	ug/l	
118-74-1	Hexachlorobenzene	ND	1.1	0.36	ug/l	
87-68-3	Hexachlorobutadiene	ND	1.1	0.55	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	11	3.1	ug/l	
67-72-1	Hexachloroethane	ND	2.2	0.43	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	1.1	0.37	ug/l	
78-59-1	Isophorone	ND	2.2	0.31	ug/l	
90-12-0	1-Methylnaphthalene	ND	1.1	0.29	ug/l	
91-57-6	2-Methylnaphthalene	ND	1.1	0.23	ug/l	
88-74-4	2-Nitroaniline	ND	5.6	0.31	ug/l	
99-09-2	3-Nitroaniline	ND	5.6	0.43	ug/l	
100-01-6	4-Nitroaniline	ND	5.6	0.49	ug/l	
98-95-3	Nitrobenzene	ND	2.2	0.71	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	2.2	0.53	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.6	0.25	ug/l	
85-01-8	Phenanthrene	ND	1.1	0.19	ug/l	
129-00-0	Pyrene	ND	1.1	0.24	ug/l	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	2.2	0.41	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	37%		14-88%

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:	RA12-GWS		
Lab Sample ID:	JC21347-3	**Date Sampled:**	06/01/16
Matrix:	AQ - Ground Water	**Date Received:**	06/02/16
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	BMSMC, Building 5 Area, PR		

ABN TCL Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-62-2	Phenol-d5	25%		10-110%
118-79-6	2,4,6-Tribromophenol	87%		39-149%
4165-60-0	Nitrobenzene-d5	76%		32-128%
321-60-8	2-Fluorobiphenyl	60%		35-119%
1718-51-0	Terphenyl-d14	46%		10-126%

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:	RA12-GWS		
Lab Sample ID:	JC21347-3	**Date Sampled:**	06/01/16
Matrix:	AQ - Ground Water	**Date Received:**	06/02/16
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	BMSMC, Building 5 Area, PR		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3M61913.D	1	06/03/16	AD	06/02/16	OP94425A	E3M2918
Run #2							

	Initial Volume	Final Volume
Run #1	900 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
91-20-3	Naphthalene	ND	0.11	0.033	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	57%		24-125%
321-60-8	2-Fluorobiphenyl	63%		19-127%
1718-51-0	Terphenyl-d14	47%		10-119%

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:	RA12-GWS		
Lab Sample ID:	JC21347-3	**Date Sampled:**	06/01/16
Matrix:	AQ - Ground Water	**Date Received:**	06/02/16
Method:	SW846-8015C (DAI)	**Percent Solids:**	n/a
Project:	BMSMC, Building 5 Area, PR		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	GH105346.D	1	06/02/16	XPL	n/a	n/a	GGH5309
Run #2							

Low Molecular Alcohol List

CAS No.	Compound	Result	RL	MDL	Units	Q
64-17-5	Ethanol	ND	100	55	ug/l	
78-83-1	Isobutyl Alcohol	ND	100	36	ug/l	
67-63-0	Isopropyl Alcohol	ND	100	68	ug/l	
71-23-8	n-Propyl Alcohol	ND	100	43	ug/l	
71-36-3	n-Butyl Alcohol	ND	100	87	ug/l	
78-92-2	sec-Butyl Alcohol	ND	100	66	ug/l	
67-56-1	Methanol	ND	200	71	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
111-27-3	Hexanol	66%		56-145%
111-27-3	Hexanol	71%		56-145%

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:	RA12-GWS		
Lab Sample ID:	JC21347-3	**Date Sampled:**	06/01/16
Matrix:	AQ - Ground Water	**Date Received:**	06/02/16
Method:	SW846 8081B SW846 3510C	**Percent Solids:**	n/a
Project:	BMSMC, Building 5 Area, PR		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	1G123822.D	1	06/03/16	KD	06/02/16	OP94431	G1G4003
Run #2							

	Initial Volume	Final Volume
Run #1	910 ml	10.0 ml
Run #2		

Pesticide TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
309-00-2	Aldrin	ND	0.011	0.0066	ug/l	
319-84-6	alpha-BHC	ND	0.011	0.0066	ug/l	
319-85-7	beta-BHC	ND	0.011	0.0063	ug/l	
319-86-8	delta-BHC	ND	0.011	0.0050	ug/l	
58-89-9	gamma-BHC (Lindane)	ND	0.011	0.0031	ug/l	
5103-71-9	alpha-Chlordane	ND	0.011	0.0051	ug/l	
5103-74-2	gamma-Chlordane	ND	0.011	0.0050	ug/l	
60-57-1	Dieldrin	ND	0.011	0.0040	ug/l	
72-54-8	4,4'-DDD	ND	0.011	0.0042	ug/l	
72-55-9	4,4'-DDE	ND	0.011	0.0068	ug/l	
50-29-3	4,4'-DDT	ND	0.011	0.0054	ug/l	
72-20-8	Endrin	ND	0.011	0.0055	ug/l	
1031-07-8	Endosulfan sulfate	ND	0.011	0.0058	ug/l	
7421-93-4	Endrin aldehyde	ND	0.011	0.0056	ug/l	
53494-70-5	Endrin ketone	ND	0.011	0.0056	ug/l	
959-98-8	Endosulfan-I	ND	0.011	0.0055	ug/l	
33213-65-9	Endosulfan-II	ND	0.011	0.0047	ug/l	
76-44-8	Heptachlor	ND	0.011	0.0042	ug/l	
1024-57-3	Heptachlor epoxide	ND	0.011	0.0072	ug/l	
72-43-5	Methoxychlor	ND	0.022	0.0062	ug/l	
8001-35-2	Toxaphene	ND	0.27	0.20	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	74%		26-132%
877-09-8	Tetrachloro-m-xylene	73%		26-132%
2051-24-3	Decachlorobiphenyl	31%		10-118%
2051-24-3	Decachlorobiphenyl	36%		10-118%

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

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody
- Sample Tracking Chronicle
- Internal Chain of Custody

GW
SO - Foreign

SGS ACCUTEST—NJ

CHAIN OF CUSTODY

SGS Accutest - Dayton
2235 Route 130, Dayton, NJ 08810
TEL. 732-329-0200 FAX: 732-329-3499/3480
www.accutest.com

PAGE 1 OF 1

801219535916

SGS Accutest Quote #

Bottle Order Control #

SGS Accutest Job # JC21347

Client / Reporting Information

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

Project Information

Project Name: BMS Release Assessment
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)

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	SVOC - Method 8270D	LMA - Method 8015B	Pesticides - Method 8081B	1,4 Dioxane + Naphthalene by Method 8270D SIM	LAB USE ONLY
1	SB101-GWS		05/31/16	1455	TT	GW	5	3				2				X	X		X	E107
2	RA12 (15-16)		06/01/16	1100	TT	SO	2					2				X	X	X	X	V258
3	RA12-GWS		06/01/16	1350	TT	GW	6	3				3				X	X	X	X	F51

INITIAL ASESSMENT BL 2A

LABEL VERIFICATION BL

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

Turnaround Time (Business days)

Approved By (SGS Accutest PM): / Date:

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

Emergency & Rush T/A data available VIA Lablink

Data Deliverable Information

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

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

Comments / Special Instructions

Add to Report: 1-methyl naphthalene with SVOC Method 8270D

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]	06/01/16	1 Fed EX	2 FEDEX	940 6216	2 DL
Relinquished by Sampler: 3	Date Time:	Received By: 3	Relinquished By: 4	Date Time:	Received By: 4
Relinquished by: 5	Date Time:	Received By: 5	Custody Seal: 337 [x] Intact [ ] Not intact	Preserved where applicable [ ]	On Ice [x] Cooler Temp. 4.7 °C TD

JC21347: Chain of Custody
Page 1 of 3

SGS Accutest Sample Receipt Summary

Job Number: JC21347 **Client:** Anderson Mulholland **Project:** BMS Release

Date / Time Received: 6/2/2016 9:40:00 AM **Delivery Method:** FedEx **Airbill #'s:** 801219535916

Cooler Temps (Raw Measured) °C: Cooler 1: (4.7);

Cooler Temps (Corrected) °C: Cooler 1: (5.6);

Cooler Security	Y	or	N		Y	or	N
1. Custody Seals Present:	☑		☐	3. COC Present:	☑		☐
2. Custody Seals Intact:	☑		☐	4. Smpl Dates/Time OK	☑		☐

Cooler Temperature	Y	or	N
1. Temp criteria achieved:	☑		☐
2. Cooler temp verification:	IR Gun		
3. Cooler media:	Ice (Bag)		
4. No. Coolers:	1		

Quality Control _Preservation	Y	or	N	N/A
1. Trip Blank present / cooler:	☐		☑	☐
2. Trip Blank listed on COC:	☐		☑	☐
3. Samples preserved properly:	☑		☐	
4. VOCs headspace free:	☑		☐	☐

Sample Integrity - Documentation	Y	or	N
1. Sample labels present on bottles:	☑		☐
2. Container labeling complete:	☑		☐
3. Sample container label / COC agree:	☑		☐

Sample Integrity - Condition	Y	or	N
1. Sample recvd within HT:	☑		☐
2. All containers accounted for:	☑		☐
3. Condition of sample:	Intact		

Sample Integrity - Instructions	Y	or	N	N/A
1. Analysis requested is clear:	☑		☐	
2. Bottles received for unspecified tests	☐		☑	
3. Sufficient volume recvd for analysis:	☑		☐	
4. Compositing instructions clear:	☐		☐	☑
5. Filtering instructions clear:	☐		☐	☑

Comments

1) -3: Rec'd 1 x 950ml for PEST, limited volume.

SGS Accutest Sample Receipt Summary

6/2/2016

Problem Note Response: Proceed with analysis

JC21347: Chain of Custody
Page 3 of 3

Internal Sample Tracking Chronicle

Anderson, Mulholland & Associates

Job No: JC21347

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

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
JC21347-1	Collected: 31-MAY-16 14:55 By: TT		Received: 02-JUN-16 By: DDH			
SB101-GWS						
JC21347-1	SW846-8015C (DAI)	02-JUN-16 13:54	XPL			D8015LMA
JC21347-1	SW846 8270D	03-JUN-16 02:44	JJ	02-JUN-16	RF	AB8270SL
JC21347-1	SW846 8270D BY SIM	03-JUN-16 09:31	AD	02-JUN-16	RF	B8270SIM14DIOX,BSIM + NAP
JC21347-2	Collected: 01-JUN-16 11:00 By: TT		Received: 02-JUN-16 By: DDH			
RA12(15-16)						
JC21347-2	SW846-8015C (DAI)	03-JUN-16 10:42	XPL			D8015LMA
JC21347-2	SM2540 G-97	06-JUN-16 17:00	KP			SOL104
JC21347-2	SW846 8081B	08-JUN-16 06:34	KD	03-JUN-16	RG	P8081PESTTCL
JC21347-2	SW846 8270D	08-JUN-16 18:15	RL	04-JUN-16	SA	AB8270SL
JC21347-2	SW846 8270D BY SIM	11-JUN-16 06:34	JJ	04-JUN-16	SA	B8270SIM14DIOX,BSIM + NAP
JC21347-3	Collected: 01-JUN-16 13:50 By: TT		Received: 02-JUN-16 By: DDH			
RA12-GWS						
JC21347-3	SW846-8015C (DAI)	02-JUN-16 14:44	XPL			D8015LMA
JC21347-3	SW846 8270D	03-JUN-16 03:13	JJ	02-JUN-16	RF	AB8270SL
JC21347-3	SW846 8270D BY SIM	03-JUN-16 10:04	AD	02-JUN-16	RF	BSIM + NAP
JC21347-3	SW846 8081B	03-JUN-16 11:24	KD	02-JUN-16	RF	P8081PESTTCL

SGS Accutest Internal Chain of Custody

Job Number: JC21347
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR
Received: 06/02/16

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JC21347-1.2	Secured Storage	Sahara Feliciano	06/02/16 12:29	Retrieve from Storage
JC21347-1.2	Sahara Feliciano	Secured Staging Area	06/02/16 12:29	Return to Storage
JC21347-1.2	Secured Staging Area	Ryan Fantasia	06/02/16 15:00	Retrieve from Storage
JC21347-1.2	Max Ponce		06/03/16 22:54	Depleted
Analyst unavailable for custody transfer.				
JC21347-1.2.1	Ryan Fantasia	Organics Prep	06/02/16 15:18	Extract from JC21347-1.2
JC21347-1.2.1	Organics Prep	Ryan Fantasia	06/02/16 22:20	Extract from JC21347-1.2
JC21347-1.2.1	Ryan Fantasia	Extract Storage	06/02/16 22:20	Return to Storage
JC21347-1.2.1	Extract Storage	Julius Johnson	06/03/16 00:24	Retrieve from Storage
JC21347-1.2.1	Julius Johnson	GCMSF	06/03/16 00:24	Load on Instrument
JC21347-1.2.1	GCMSF	Linsey Kirschmann	06/03/16 08:30	Unload from Instrument
JC21347-1.2.1	Linsey Kirschmann	GCMS3M	06/03/16 08:30	Load on Instrument
JC21347-1.2.1	GCMS3M	Linsey Kirschmann	06/03/16 16:13	Unload from Instrument
JC21347-1.2.1	Linsey Kirschmann	Extract Freezer	06/03/16 16:13	Return to Storage
JC21347-1.3	Secured Storage	Xu Liu	06/02/16 12:44	Retrieve from Storage
JC21347-1.3	Xu Liu	Secured Storage	06/02/16 14:47	Return to Storage
JC21347-2.1	Secured Storage	Shanice Grant	06/03/16 06:11	Retrieve from Storage
JC21347-2.1	Shanice Grant	Secured Storage	06/03/16 10:24	Return to Storage
JC21347-2.1	Secured Storage	Sauvelson Auguste	06/04/16 06:41	Retrieve from Storage
JC21347-2.1	Sauvelson Auguste	Meilly Arbelo	06/04/16 06:50	Custody Transfer
JC21347-2.1	Meilly Arbelo	Secured Storage	06/04/16 11:45	Return to Storage
JC21347-2.1.1	Shanice Grant	Organics Prep	06/03/16 07:47	Extract from JC21347-2.1
JC21347-2.1.1	Organics Prep	Rebecca Gluckman	06/03/16 17:59	Extract from JC21347-2.1
JC21347-2.1.1	Rebecca Gluckman	Extract Storage	06/03/16 17:59	Return to Storage
JC21347-2.1.2	Sauvelson Auguste	Organics Prep	06/04/16 06:50	Extract from JC21347-2.1
JC21347-2.1.2	Organics Prep	Sauvelson Auguste	06/04/16 15:20	Extract from JC21347-2.1
JC21347-2.1.2	Sauvelson Auguste	Extract Storage	06/04/16 15:20	Return to Storage
JC21347-2.1.2	Extract Storage	Robert LaPosta	06/08/16 11:55	Retrieve from Storage
JC21347-2.1.2	Robert LaPosta	GCMS2P	06/08/16 11:55	Load on Instrument
JC21347-2.1.2	GCMS2P	Julius Johnson	06/10/16 22:44	Unload from Instrument
JC21347-2.1.2	Julius Johnson	GCMS3M	06/10/16 22:44	Load on Instrument
JC21347-2.1.2	GCMS3M	Linsey Kirschmann	06/14/16 13:22	Unload from Instrument
JC21347-2.1.2	Linsey Kirschmann	Extract Freezer	06/14/16 13:22	Return to Storage
JC21347-2.2	Secured Storage	Xu Liu	06/02/16 12:59	Retrieve from Storage
JC21347-2.2	Xu Liu	Secured Storage	06/02/16 14:47	Return to Storage
JC21347-2.2	Secured Storage	Luis Villanueva	06/03/16 11:40	Retrieve from Storage
JC21347-2.2	Luis Villanueva	Secured Staging Area	06/03/16 11:40	Return to Storage
JC21347-2.2	Secured Staging Area	Krimesh Patel	06/03/16 12:30	Retrieve from Storage

SGS Accutest Internal Chain of Custody

Job Number: JC21347
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR
Received: 06/02/16

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JC21347-2.2	Krimesh Patel	Secured Storage	06/03/16 14:56	Return to Storage
JC21347-2.2	Secured Storage	Todd Shoemaker	06/06/16 09:59	Retrieve from Storage
JC21347-2.2	Todd Shoemaker	Secured Staging Area	06/06/16 09:59	Return to Storage
JC21347-2.2	Secured Staging Area	Krimesh Patel	06/06/16 12:45	Retrieve from Storage
JC21347-2.2	Krimesh Patel	Secured Storage	06/06/16 13:06	Return to Storage
JC21347-3.1	Secured Storage	Sahara Feliciano	06/02/16 12:29	Retrieve from Storage
JC21347-3.1	Sahara Feliciano	Secured Staging Area	06/02/16 12:29	Return to Storage
JC21347-3.1	Secured Staging Area	Ryan Fantasia	06/02/16 15:00	Retrieve from Storage
JC21347-3.1	Max Ponce		06/03/16 22:54	Depleted
Analyst unavailable for custody transfer.				
JC21347-3.1.1	Ryan Fantasia	Organics Prep	06/02/16 15:18	Extract from JC21347-3.1
JC21347-3.1.1	Organics Prep	Ryan Fantasia	06/02/16 22:20	Extract from JC21347-3.1
JC21347-3.1.1	Ryan Fantasia	Extract Storage	06/02/16 22:20	Return to Storage
JC21347-3.1.1	Extract Storage	Julius Johnson	06/03/16 00:24	Retrieve from Storage
JC21347-3.1.1	Julius Johnson	GCMSF	06/03/16 00:24	Load on Instrument
JC21347-3.1.1	GCMSF	Linsey Kirschmann	06/03/16 08:30	Unload from Instrument
JC21347-3.1.1	Linsey Kirschmann	GCMS3M	06/03/16 08:30	Load on Instrument
JC21347-3.1.1	GCMS3M	Linsey Kirschmann	06/03/16 16:13	Unload from Instrument
JC21347-3.1.1	Linsey Kirschmann	Extract Freezer	06/03/16 16:13	Return to Storage
JC21347-3.1.2	Ryan Fantasia	Organics Prep	06/02/16 15:29	Extract from JC21347-3.1
JC21347-3.1.2	Organics Prep	Ryan Fantasia	06/02/16 22:19	Extract from JC21347-3.1
JC21347-3.1.2	Ryan Fantasia	Extract Storage	06/02/16 22:19	Return to Storage
JC21347-3.1.2	Extract Storage	Kristen Drake	06/03/16 10:36	Retrieve from Storage
JC21347-3.1.2	Kristen Drake	GC1G	06/03/16 10:36	Load on Instrument
JC21347-3.1.2	GC1G	Dhara Saparia	06/09/16 16:34	Unload from Instrument
JC21347-3.1.2	Dhara Saparia	Extract Freezer	06/09/16 16:34	Return to Storage
JC21347-3.2	Secured Storage	Sahara Feliciano	06/02/16 12:29	Retrieve from Storage
JC21347-3.2	Sahara Feliciano	Secured Staging Area	06/02/16 12:29	Return to Storage
JC21347-3.2	Secured Staging Area	Ryan Fantasia	06/02/16 15:00	Retrieve from Storage
JC21347-3.2	Max Ponce		06/03/16 22:54	Depleted
Analyst unavailable for custody transfer.				
JC21347-3.3	Secured Storage	Sahara Feliciano	06/02/16 12:29	Retrieve from Storage
JC21347-3.3	Sahara Feliciano	Secured Staging Area	06/02/16 12:29	Return to Storage
JC21347-3.3	Secured Staging Area	Ryan Fantasia	06/02/16 15:00	Retrieve from Storage
JC21347-3.3	Max Ponce		06/03/16 22:54	Depleted
Analyst unavailable for custody transfer.				
JC21347-3.5	Secured Storage	Xu Liu	06/02/16 12:44	Retrieve from Storage
JC21347-3.5	Xu Liu	Secured Storage	06/02/16 14:47	Return to Storage

GC/MS Semi-volatiles

QC Data Summaries

Includes the following where applicable:

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

Method Blank Summary

Job Number: JC21347
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP94425-MB1	F157716.D	1	06/03/16	JJ	06/02/16	OP94425	EF6637

The QC reported here applies to the following samples: **Method:** SW846 8270D

JC21347-1, JC21347-3

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	5.0	0.82	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	5.0	0.89	ug/l	
120-83-2	2,4-Dichlorophenol	ND	2.0	1.3	ug/l	
105-67-9	2,4-Dimethylphenol	ND	5.0	2.4	ug/l	
51-28-5	2,4-Dinitrophenol	ND	10	1.6	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	5.0	1.3	ug/l	
95-48-7	2-Methylphenol	ND	2.0	0.89	ug/l	
	3&4-Methylphenol	ND	2.0	0.88	ug/l	
88-75-5	2-Nitrophenol	ND	5.0	0.96	ug/l	
100-02-7	4-Nitrophenol	ND	10	1.2	ug/l	
87-86-5	Pentachlorophenol	ND	5.0	1.4	ug/l	
108-95-2	Phenol	ND	2.0	0.39	ug/l	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	5.0	1.5	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	5.0	1.3	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	5.0	0.92	ug/l	
83-32-9	Acenaphthene	ND	1.0	0.19	ug/l	
208-96-8	Acenaphthylene	ND	1.0	0.14	ug/l	
98-86-2	Acetophenone	ND	2.0	0.21	ug/l	
120-12-7	Anthracene	ND	1.0	0.21	ug/l	
1912-24-9	Atrazine	ND	2.0	0.45	ug/l	
100-52-7	Benzaldehyde	ND	5.0	0.29	ug/l	
56-55-3	Benzo(a)anthracene	ND	1.0	0.20	ug/l	
50-32-8	Benzo(a)pyrene	ND	1.0	0.21	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	1.0	0.21	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	1.0	0.34	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	1.0	0.21	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	2.0	0.40	ug/l	
85-68-7	Butyl benzyl phthalate	ND	2.0	0.46	ug/l	
92-52-4	1,1'-Biphenyl	ND	1.0	0.21	ug/l	
91-58-7	2-Chloronaphthalene	ND	2.0	0.24	ug/l	
106-47-8	4-Chloroaniline	ND	5.0	0.34	ug/l	
86-74-8	Carbazole	ND	1.0	0.23	ug/l	
105-60-2	Caprolactam	ND	2.0	0.65	ug/l	
218-01-9	Chrysene	ND	1.0	0.18	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	2.0	0.28	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	2.0	0.25	ug/l	

Method Blank Summary

Job Number: JC21347
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP94425-MB1	F157716.D	1	06/03/16	JJ	06/02/16	OP94425	EF6637

The QC reported here applies to the following samples: **Method:** SW846 8270D

JC21347-1, JC21347-3

CAS No.	Compound	Result	RL	MDL	Units	Q
108-60-1	bis(2-Chloroisopropyl)ether	ND	2.0	0.40	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	2.0	0.37	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	1.0	0.55	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	1.0	0.48	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	2.0	0.51	ug/l	
123-91-1	1,4-Dioxane	ND	1.0	0.66	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	1.0	0.33	ug/l	
132-64-9	Dibenzofuran	ND	5.0	0.22	ug/l	
84-74-2	Di-n-butyl phthalate	ND	2.0	0.50	ug/l	
117-84-0	Di-n-octyl phthalate	ND	2.0	0.23	ug/l	
84-66-2	Diethyl phthalate	ND	2.0	0.26	ug/l	
131-11-3	Dimethyl phthalate	ND	2.0	0.22	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.0	1.7	ug/l	
206-44-0	Fluoranthene	ND	1.0	0.17	ug/l	
86-73-7	Fluorene	ND	1.0	0.17	ug/l	
118-74-1	Hexachlorobenzene	ND	1.0	0.33	ug/l	
87-68-3	Hexachlorobutadiene	ND	1.0	0.49	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	10	2.8	ug/l	
67-72-1	Hexachloroethane	ND	2.0	0.39	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	1.0	0.33	ug/l	
78-59-1	Isophorone	ND	2.0	0.28	ug/l	
90-12-0	1-Methylnaphthalene	ND	1.0	0.26	ug/l	
91-57-6	2-Methylnaphthalene	ND	1.0	0.21	ug/l	
88-74-4	2-Nitroaniline	ND	5.0	0.28	ug/l	
99-09-2	3-Nitroaniline	ND	5.0	0.39	ug/l	
100-01-6	4-Nitroaniline	ND	5.0	0.44	ug/l	
98-95-3	Nitrobenzene	ND	2.0	0.64	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	2.0	0.48	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.0	0.22	ug/l	
85-01-8	Phenanthrene	ND	1.0	0.18	ug/l	
129-00-0	Pyrene	ND	1.0	0.22	ug/l	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	2.0	0.37	ug/l	

Method Blank Summary

Job Number: JC21347
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP94425-MB1	F157716.D	1	06/03/16	JJ	06/02/16	OP94425	EF6637

The QC reported here applies to the following samples: **Method:** SW846 8270D

JC21347-1, JC21347-3

CAS No.	Surrogate Recoveries		Limits
367-12-4	2-Fluorophenol	36%	14-88%
4165-62-2	Phenol-d5	25%	10-110%
118-79-6	2,4,6-Tribromophenol	98%	39-149%
4165-60-0	Nitrobenzene-d5	79%	32-128%
321-60-8	2-Fluorobiphenyl	66%	35-119%
1718-51-0	Terphenyl-d14	89%	10-126%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Semi-Volatile		0	ug/l	

Method Blank Summary

Job Number: JC21347
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP94471-MB1	2P59934.D	1	06/08/16	RL	06/04/16	OP94471	E2P2614

The QC reported here applies to the following samples: **Method:** SW846 8270D

JC21347-2

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	67	16	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	170	20	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	170	28	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	170	59	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	170	130	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	170	36	ug/kg	
95-48-7	2-Methylphenol	ND	67	21	ug/kg	
	3&4-Methylphenol	ND	67	27	ug/kg	
88-75-5	2-Nitrophenol	ND	170	22	ug/kg	
100-02-7	4-Nitrophenol	ND	330	89	ug/kg	
87-86-5	Pentachlorophenol	ND	170	31	ug/kg	
108-95-2	Phenol	ND	67	17	ug/kg	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	170	22	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	170	25	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	170	20	ug/kg	
83-32-9	Acenaphthene	ND	33	11	ug/kg	
208-96-8	Acenaphthylene	ND	33	17	ug/kg	
98-86-2	Acetophenone	ND	170	7.2	ug/kg	
120-12-7	Anthracene	ND	33	20	ug/kg	
1912-24-9	Atrazine	ND	67	14	ug/kg	
56-55-3	Benzo(a)anthracene	ND	33	9.4	ug/kg	
50-32-8	Benzo(a)pyrene	ND	33	15	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	33	15	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	33	17	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	33	16	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	67	13	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	67	8.1	ug/kg	
92-52-4	1,1'-Biphenyl	ND	67	4.6	ug/kg	
100-52-7	Benzaldehyde	ND	170	8.3	ug/kg	
91-58-7	2-Chloronaphthalene	ND	67	7.9	ug/kg	
106-47-8	4-Chloroaniline	ND	170	12	ug/kg	
86-74-8	Carbazole	ND	67	4.8	ug/kg	
105-60-2	Caprolactam	ND	67	13	ug/kg	
218-01-9	Chrysene	ND	33	10	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	67	7.1	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	67	14	ug/kg	

Method Blank Summary

Job Number: JC21347
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP94471-MB1	2P59934.D	1	06/08/16	RL	06/04/16	OP94471	E2P2614

The QC reported here applies to the following samples: **Method:** SW846 8270D

JC21347-2

CAS No.	Compound	Result	RL	MDL	Units	Q
108-60-1	bis(2-Chloroisopropyl)ether	ND	67	12	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	67	11	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	33	10	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	33	17	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	67	28	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	33	15	ug/kg	
132-64-9	Dibenzofuran	ND	67	14	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	67	5.4	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	67	8.3	ug/kg	
84-66-2	Diethyl phthalate	ND	67	7.1	ug/kg	
131-11-3	Dimethyl phthalate	ND	67	5.9	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	67	7.8	ug/kg	
206-44-0	Fluoranthene	ND	33	15	ug/kg	
86-73-7	Fluorene	ND	33	15	ug/kg	
118-74-1	Hexachlorobenzene	ND	67	8.4	ug/kg	
87-68-3	Hexachlorobutadiene	ND	33	13	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	330	13	ug/kg	
67-72-1	Hexachloroethane	ND	170	16	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	33	16	ug/kg	
78-59-1	Isophorone	ND	67	7.1	ug/kg	
90-12-0	1-Methylnaphthalene	ND	67	6.5	ug/kg	
91-57-6	2-Methylnaphthalene	ND	67	7.5	ug/kg	
88-74-4	2-Nitroaniline	ND	170	7.9	ug/kg	
99-09-2	3-Nitroaniline	ND	170	8.3	ug/kg	
100-01-6	4-Nitroaniline	ND	170	8.6	ug/kg	
98-95-3	Nitrobenzene	ND	67	13	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	67	9.6	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	170	12	ug/kg	
85-01-8	Phenanthrene	ND	33	11	ug/kg	
129-00-0	Pyrene	ND	33	11	ug/kg	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	170	8.5	ug/kg	

CAS No.	Surrogate Recoveries		Limits
367-12-4	2-Fluorophenol	65%	30-106%

Method Blank Summary

Job Number: JC21347
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP94471-MB1	2P59934.D	1	06/08/16	RL	06/04/16	OP94471	E2P2614

The QC reported here applies to the following samples: **Method:** SW846 8270D

JC21347-2

CAS No.	Surrogate Recoveries		Limits
4165-62-2	Phenol-d5	68%	30-106%
118-79-6	2,4,6-Tribromophenol	80%	24-140%
4165-60-0	Nitrobenzene-d5	74%	26-122%
321-60-8	2-Fluorobiphenyl	78%	36-112%
1718-51-0	Terphenyl-d14	81%	36-132%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	system artifact	3.06	520	ug/kg	J
	system artifact	3.27	160	ug/kg	J
	system artifact	3.40	430	ug/kg	J
	system artifact/aldol-condensation	3.47	3400	ug/kg	J
	Total TIC, Semi-Volatile		0	ug/kg	

Method Blank Summary

Job Number: JC21347
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP94425A-MB1	3M61910.D	1	06/03/16	AD	06/02/16	OP94425A	E3M2918

The QC reported here applies to the following samples: **Method:** SW846 8270D BY SIM

JC21347-1, JC21347-3

CAS No.	Compound	Result	RL	MDL	Units	Q
91-20-3	Naphthalene	ND	0.10	0.029	ug/l	
123-91-1	1,4-Dioxane	ND	0.10	0.049	ug/l	

CAS No.	Surrogate Recoveries		Limits
367-12-4	2-Fluorophenol	32%	14-81%
4165-62-2	Phenol-d5	20%	11-54%
118-79-6	2,4,6-Tribromophenol	82%	35-145%
4165-60-0	Nitrobenzene-d5	58%	24-125%
321-60-8	2-Fluorobiphenyl	69%	19-127%
1718-51-0	Terphenyl-d14	98%	10-119%

Method Blank Summary

Job Number: JC21347
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP94425A-MB1	3M61938.D	1	06/03/16	LK	06/02/16	OP94425A	E3M2919

The QC reported here applies to the following samples: **Method:** SW846 8270D BY SIM

JC21347-1, JC21347-3

CAS No.	Compound	Result	RL	MDL	Units	Q
91-20-3	Naphthalene	ND	0.10	0.029	ug/l	
123-91-1	1,4-Dioxane	ND	0.10	0.049	ug/l	

CAS No.	Surrogate Recoveries		Limits
367-12-4	2-Fluorophenol	34%	14-81%
4165-62-2	Phenol-d5	23%	11-54%
118-79-6	2,4,6-Tribromophenol	78%	35-145%
4165-60-0	Nitrobenzene-d5	71%	24-125%
321-60-8	2-Fluorobiphenyl	69%	19-127%
1718-51-0	Terphenyl-d14	94%	10-119%

Method Blank Summary

Job Number: JC21347
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP94471A-MB1	3M62161.D	1	06/11/16	JJ	06/04/16	OP94471A	E3M2930

The QC reported here applies to the following samples: **Method:** SW846 8270D BY SIM

JC21347-2

CAS No.	Compound	Result	RL	MDL	Units	Q
123-91-1	1,4-Dioxane	ND	3.3	0.67	ug/kg	
91-20-3	Naphthalene	ND	3.3	0.41	ug/kg	

CAS No.	Surrogate Recoveries		Limits
4165-60-0	Nitrobenzene-d5	83%	15-138%
321-60-8	2-Fluorobiphenyl	99%	12-148%
1718-51-0	Terphenyl-d14	102%	10-157%

Blank Spike Summary

Job Number: JC21347
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP94425-BS1	F157717.D	1	06/03/16	JJ	06/02/16	OP94425	EF6637

The QC reported here applies to the following samples: **Method:** SW846 8270D

JC21347-1, JC21347-3

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
95-57-8	2-Chlorophenol	50	30.5	61	48-106
59-50-7	4-Chloro-3-methyl phenol	50	37.3	75	49-113
120-83-2	2,4-Dichlorophenol	50	29.9	60	49-111
105-67-9	2,4-Dimethylphenol	50	39.4	79	42-117
51-28-5	2,4-Dinitrophenol	100	74.9	75	37-132
534-52-1	4,6-Dinitro-o-cresol	50	41.2	82	49-119
95-48-7	2-Methylphenol	50	32.0	64	42-103
	3&4-Methylphenol	50	31.3	63	39-110
88-75-5	2-Nitrophenol	50	28.6	57	49-114
100-02-7	4-Nitrophenol	50	22.9	46	16-95
87-86-5	Pentachlorophenol	50	36.8	74	30-136
108-95-2	Phenol	50	17.4	35	10-110
58-90-2	2,3,4,6-Tetrachlorophenol	50	35.8	72	47-118
95-95-4	2,4,5-Trichlorophenol	50	34.0	68	55-116
88-06-2	2,4,6-Trichlorophenol	50	39.3	79	56-115
83-32-9	Acenaphthene	50	35.2	70	54-112
208-96-8	Acenaphthylene	50	34.6	69	49-99
98-86-2	Acetophenone	50	42.1	84	52-111
120-12-7	Anthracene	50	36.9	74	58-112
1912-24-9	Atrazine	50	44.0	88	62-134
100-52-7	Benzaldehyde	50	34.5	69	40-129
56-55-3	Benzo(a)anthracene	50	35.0	70	44-120
50-32-8	Benzo(a)pyrene	50	35.6	71	41-127
205-99-2	Benzo(b)fluoranthene	50	38.1	76	41-129
191-24-2	Benzo(g,h,i)perylene	50	36.5	73	34-128
207-08-9	Benzo(k)fluoranthene	50	38.3	77	42-122
101-55-3	4-Bromophenyl phenyl ether	50	37.5	75	54-121
85-68-7	Butyl benzyl phthalate	50	35.6	71	20-143
92-52-4	1,1'-Biphenyl	50	36.3	73	51-106
91-58-7	2-Chloronaphthalene	50	32.7	65	48-104
106-47-8	4-Chloroaniline	50	26.4	53	10-110
86-74-8	Carbazole	50	37.9	76	56-110
105-60-2	Caprolactam	50	8.7	17	10-110
218-01-9	Chrysene	50	35.1	70	45-125
111-91-1	bis(2-Chloroethoxy)methane	50	31.1	62	47-117
111-44-4	bis(2-Chloroethyl)ether	50	36.7	73	48-115

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JC21347
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP94425-BS1	F157717.D	1	06/03/16	JJ	06/02/16	OP94425	EF6637

The QC reported here applies to the following samples: **Method:** SW846 8270D

JC21347-1, JC21347-3

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
108-60-1	bis(2-Chloroisopropyl)ether	50	29.4	59	44-112
7005-72-3	4-Chlorophenyl phenyl ether	50	37.9	76	50-117
121-14-2	2,4-Dinitrotoluene	50	39.7	79	57-122
606-20-2	2,6-Dinitrotoluene	50	38.1	76	58-122
91-94-1	3,3'-Dichlorobenzidine	100	51.7	52	10-110
123-91-1	1,4-Dioxane	50	14.7	29	10-110
53-70-3	Dibenzo(a,h)anthracene	50	39.8	80	36-130
132-64-9	Dibenzofuran	50	36.5	73	55-108
84-74-2	Di-n-butyl phthalate	50	40.2	80	45-123
117-84-0	Di-n-octyl phthalate	50	37.7	75	37-144
84-66-2	Diethyl phthalate	50	39.0	78	23-130
131-11-3	Dimethyl phthalate	50	37.8	76	10-140
117-81-7	bis(2-Ethylhexyl)phthalate	50	36.6	73	36-138
206-44-0	Fluoranthene	50	37.7	75	58-116
86-73-7	Fluorene	50	39.4	79	57-113
118-74-1	Hexachlorobenzene	50	41.0	82	49-122
87-68-3	Hexachlorobutadiene	50	23.3	47	24-112
77-47-4	Hexachlorocyclopentadiene	100	43.6	44	14-119
67-72-1	Hexachloroethane	50	23.7	47	31-107
193-39-5	Indeno(1,2,3-cd)pyrene	50	37.5	75	34-128
78-59-1	Isophorone	50	39.6	79	52-119
90-12-0	1-Methylnaphthalene	50	32.0	64	46-103
91-57-6	2-Methylnaphthalene	50	30.9	62	45-107
88-74-4	2-Nitroaniline	50	51.2	102	51-127
99-09-2	3-Nitroaniline	50	28.8	58	10-110
100-01-6	4-Nitroaniline	50	35.0	70	50-112
98-95-3	Nitrobenzene	50	36.9	74	44-116
621-64-7	N-Nitroso-di-n-propylamine	50	42.8	86	49-117
86-30-6	N-Nitrosodiphenylamine	50	37.2	74	51-113
85-01-8	Phenanthrene	50	37.7	75	56-111
129-00-0	Pyrene	50	34.4	69	47-120
95-94-3	1,2,4,5-Tetrachlorobenzene	50	29.4	59	36-114

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JC21347
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP94425-BS1	F157717.D	1	06/03/16	JJ	06/02/16	OP94425	EF6637

The QC reported here applies to the following samples: **Method:** SW846 8270D

JC21347-1, JC21347-3

CAS No.	Surrogate Recoveries	BSP	Limits
367-12-4	2-Fluorophenol	38%	14-88%
4165-62-2	Phenol-d5	30%	10-110%
118-79-6	2,4,6-Tribromophenol	91%	39-149%
4165-60-0	Nitrobenzene-d5	74%	32-128%
321-60-8	2-Fluorobiphenyl	71%	35-119%
1718-51-0	Terphenyl-d14	77%	10-126%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JC21347
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP94471-BS1	2P59935.D	1	06/08/16	RL	06/04/16	OP94471	E2P2614

The QC reported here applies to the following samples: **Method:** SW846 8270D

JC21347-2

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
95-57-8	2-Chlorophenol	1670	1260	76	54-98
59-50-7	4-Chloro-3-methyl phenol	1670	1290	77	52-107
120-83-2	2,4-Dichlorophenol	1670	1310	79	53-105
105-67-9	2,4-Dimethylphenol	1670	1220	73	49-115
51-28-5	2,4-Dinitrophenol	3330	2760	83	30-127
534-52-1	4,6-Dinitro-o-cresol	1670	1520	91	41-114
95-48-7	2-Methylphenol	1670	1220	73	53-103
	3&4-Methylphenol	1670	1240	74	53-102
88-75-5	2-Nitrophenol	1670	1390	83	52-104
100-02-7	4-Nitrophenol	1670	1350	81	36-143
87-86-5	Pentachlorophenol	1670	1160	70	29-128
108-95-2	Phenol	1670	1170	70	45-106
58-90-2	2,3,4,6-Tetrachlorophenol	1670	1250	75	47-113
95-95-4	2,4,5-Trichlorophenol	1670	1230	74	55-112
88-06-2	2,4,6-Trichlorophenol	1670	1280	77	57-108
83-32-9	Acenaphthene	1670	1280	77	60-108
208-96-8	Acenaphthylene	1670	1230	74	54-94
98-86-2	Acetophenone	1670	1280	77	53-110
120-12-7	Anthracene	1670	1290	77	59-109
1912-24-9	Atrazine	1670	1500	90	59-126
56-55-3	Benzo(a)anthracene	1670	1320	79	52-113
50-32-8	Benzo(a)pyrene	1670	1350	81	56-122
205-99-2	Benzo(b)fluoranthene	1670	1340	80	53-119
191-24-2	Benzo(g,h,i)perylene	1670	1220	73	48-117
207-08-9	Benzo(k)fluoranthene	1670	1390	83	52-115
101-55-3	4-Bromophenyl phenyl ether	1670	1360	82	58-114
85-68-7	Butyl benzyl phthalate	1670	1490	89	44-132
92-52-4	1,1'-Biphenyl	1670	1210	73	54-101
100-52-7	Benzaldehyde	1670	1420	85	39-117
91-58-7	2-Chloronaphthalene	1670	1220	73	54-103
106-47-8	4-Chloroaniline	1670	712	43	10-110
86-74-8	Carbazole	1670	1320	79	55-105
105-60-2	Caprolactam	1670	1290	77	42-111
218-01-9	Chrysene	1670	1330	80	51-119
111-91-1	bis(2-Chloroethoxy)methane	1670	1280	77	51-106
111-44-4	bis(2-Chloroethyl)ether	1670	1280	77	48-107

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JC21347
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP94471-BS1	2P59935.D	1	06/08/16	RL	06/04/16	OP94471	E2P2614

The QC reported here applies to the following samples: **Method:** SW846 8270D

JC21347-2

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
108-60-1	bis(2-Chloroisopropyl)ether	1670	1090	65	46-103
7005-72-3	4-Chlorophenyl phenyl ether	1670	1270	76	54-112
121-14-2	2,4-Dinitrotoluene	1670	1320	79	56-116
606-20-2	2,6-Dinitrotoluene	1670	1360	82	56-115
91-94-1	3,3'-Dichlorobenzidine	3330	1900	57	22-103
53-70-3	Dibenzo(a,h)anthracene	1670	1270	76	49-118
132-64-9	Dibenzofuran	1670	1220	73	55-103
84-74-2	Di-n-butyl phthalate	1670	1410	85	56-117
117-84-0	Di-n-octyl phthalate	1670	1580	95	47-137
84-66-2	Diethyl phthalate	1670	1300	78	54-112
131-11-3	Dimethyl phthalate	1670	1270	76	56-108
117-81-7	bis(2-Ethylhexyl)phthalate	1670	1480	89	45-130
206-44-0	Fluoranthene	1670	1380	83	58-110
86-73-7	Fluorene	1670	1250	75	59-108
118-74-1	Hexachlorobenzene	1670	1280	77	55-114
87-68-3	Hexachlorobutadiene	1670	1290	77	44-118
77-47-4	Hexachlorocyclopentadiene	3330	2280	68	41-137
67-72-1	Hexachloroethane	1670	1230	74	50-107
193-39-5	Indeno(1,2,3-cd)pyrene	1670	1270	76	48-120
78-59-1	Isophorone	1670	1300	78	54-109
90-12-0	1-Methylnaphthalene	1670	1240	74	50-110
91-57-6	2-Methylnaphthalene	1670	1220	73	48-104
88-74-4	2-Nitroaniline	1670	1340	80	49-124
99-09-2	3-Nitroaniline	1670	918	55	22-110
100-01-6	4-Nitroaniline	1670	1290	77	50-107
98-95-3	Nitrobenzene	1670	1240	74	47-108
621-64-7	N-Nitroso-di-n-propylamine	1670	1190	71	49-106
86-30-6	N-Nitrosodiphenylamine	1670	1350	81	53-112
85-01-8	Phenanthrene	1670	1280	77	57-105
129-00-0	Pyrene	1670	1480	89	50-117
95-94-3	1,2,4,5-Tetrachlorobenzene	1670	1350	81	52-109

CAS No.	Surrogate Recoveries	BSP	Limits
367-12-4	2-Fluorophenol	77%	30-106%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JC21347
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP94471-BS1	2P59935.D	1	06/08/16	RL	06/04/16	OP94471	E2P2614

The QC reported here applies to the following samples: **Method:** SW846 8270D

JC21347-2

CAS No.	Surrogate Recoveries	BSP	Limits
4165-62-2	Phenol-d5	73%	30-106%
118-79-6	2,4,6-Tribromophenol	85%	24-140%
4165-60-0	Nitrobenzene-d5	76%	26-122%
321-60-8	2-Fluorobiphenyl	75%	36-112%
1718-51-0	Terphenyl-d14	90%	36-132%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JC21347
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP94425A-BS12	3M61911.D	1	06/03/16	AD	06/02/16	OP94425A	E3M2918

The QC reported here applies to the following samples: **Method:** SW846 8270D BY SIM

JC21347-1, JC21347-3

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
91-20-3	Naphthalene	1	0.543	54	40-119
123-91-1	1,4-Dioxane	1	0.255	26	20-160

CAS No.	Surrogate Recoveries	BSP	Limits
367-12-4	2-Fluorophenol	32%	14-81%
4165-62-2	Phenol-d5	21%	11-54%
118-79-6	2,4,6-Tribromophenol	66%	35-145%
4165-60-0	Nitrobenzene-d5	53%	24-125%
321-60-8	2-Fluorobiphenyl	64%	19-127%
1718-51-0	Terphenyl-d14	75%	10-119%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JC21347
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP94425A-BS12	3M61939.D	1	06/03/16	LK	06/02/16	OP94425A	E3M2919

The QC reported here applies to the following samples: **Method:** SW846 8270D BY SIM

JC21347-1, JC21347-3

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
91-20-3	Naphthalene	1	0.603	60	40-119
123-91-1	1,4-Dioxane	1	0.351	35	20-160

CAS No.	Surrogate Recoveries	BSP	Limits
367-12-4	2-Fluorophenol	36%	14-81%
4165-62-2	Phenol-d5	23%	11-54%
118-79-6	2,4,6-Tribromophenol	64%	35-145%
4165-60-0	Nitrobenzene-d5	64%	24-125%
321-60-8	2-Fluorobiphenyl	62%	19-127%
1718-51-0	Terphenyl-d14	69%	10-119%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JC21347
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP94471A-BS12	3M62162.D	1	06/11/16	JJ	06/04/16	OP94471A	E3M2930

The QC reported here applies to the following samples: **Method:** SW846 8270D BY SIM

JC21347-2

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
123-91-1	1,4-Dioxane	33.3	26.1	78	10-100
91-20-3	Naphthalene	33.3	30.0	90	35-142

CAS No.	Surrogate Recoveries	BSP	Limits
4165-60-0	Nitrobenzene-d5	88%	15-138%
321-60-8	2-Fluorobiphenyl	105%	12-148%
1718-51-0	Terphenyl-d14	109%	10-157%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JC21347
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP94425-MS	F157718.D	1	06/03/16	JJ	06/02/16	OP94425	EF6637
OP94425-MSD	F157719.D	1	06/03/16	JJ	06/02/16	OP94425	EF6637
JC21116-5	F157723.D	1	06/03/16	JJ	06/02/16	OP94425	EF6637

The QC reported here applies to the following samples: **Method:** SW846 8270D

JC21347-1, JC21347-3

CAS No.	Compound	JC21116-5 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
95-57-8	2-Chlorophenol	ND		111	65.8	59	111	78.7	71	18	49-110/20
59-50-7	4-Chloro-3-methyl phenol	ND		111	77.2	69	111	98.9	89	25* [a]	44-121/18
120-83-2	2,4-Dichlorophenol	ND		111	58.0	52	111	75.3	68	26* [a]	42-120/19
105-67-9	2,4-Dimethylphenol	ND		111	81.7	74	111	101	91	21	33-132/23
51-28-5	2,4-Dinitrophenol	ND		222	157	71	222	209	94	28* [a]	21-145/26
534-52-1	4,6-Dinitro-o-cresol	ND		111	89.8	81	111	113	102	23	25-134/27
95-48-7	2-Methylphenol	ND		111	76.4	69	111	90.9	82	17	47-112/18
	3&4-Methylphenol	ND		111	77.5	70	111	97.5	88	23* [a]	44-113/19
88-75-5	2-Nitrophenol	ND		111	59.8	54	111	75.8	68	24* [a]	45-118/20
100-02-7	4-Nitrophenol	ND		111	94.2	85	111	112	101	17	23-144/28
87-86-5	Pentachlorophenol	ND		111	74.8	67	111	97.8	88	27* [a]	25-151/25
108-95-2	Phenol	ND		111	66.3	60	111	77.8	70	16	22-100/22
58-90-2	2,3,4,6-Tetrachlorophenol	ND		111	69.9	63	111	88.5	80	23* [a]	44-122/21
95-95-4	2,4,5-Trichlorophenol	ND		111	64.6	58	111	86.7	78	29* [a]	51-124/20
88-06-2	2,4,6-Trichlorophenol	ND		111	69.9	63	111	92.2	83	28* [a]	53-120/21
83-32-9	Acenaphthene	ND		111	67.2	60	111	89.5	81	28* [a]	52-120/23
208-96-8	Acenaphthylene	ND		111	65.2	59	111	85.8	77	27* [a]	50-101/22
98-86-2	Acetophenone	ND		111	77.4	70	111	99.7	90	25* [a]	31-141/23
120-12-7	Anthracene	ND		111	73.5	66	111	91.7	83	22	54-117/22
1912-24-9	Atrazine	ND		111	81.4	73	111	104	94	24* [a]	42-152/23
100-52-7	Benzaldehyde	ND		111	64.9	58	111	73.5	66	12	10-164/30
56-55-3	Benzo(a)anthracene	ND		111	71.0	64	111	88.4	80	22	40-123/24
50-32-8	Benzo(a)pyrene	ND		111	72.1	65	111	88.0	79	20	41-127/25
205-99-2	Benzo(b)fluoranthene	ND		111	76.7	69	111	94.3	85	21	39-127/27
191-24-2	Benzo(g,h,i)perylene	ND		111	70.4	63	111	90.3	81	25	34-128/28
207-08-9	Benzo(k)fluoranthene	ND		111	76.0	68	111	94.5	85	22	39-122/26
101-55-3	4-Bromophenyl phenyl ether	ND		111	75.7	68	111	96.1	86	24* [a]	51-124/23
85-68-7	Butyl benzyl phthalate	ND		111	73.7	66	111	90.5	81	20	21-146/28
92-52-4	1,1'-Biphenyl	ND		111	67.8	61	111	88.9	80	27* [a]	27-142/23
91-58-7	2-Chloronaphthalene	ND		111	64.2	58	111	82.9	75	25* [a]	51-109/23
106-47-8	4-Chloroaniline	ND		111	60.7	55	111	53.8	48	12	10-110/55
86-74-8	Carbazole	ND		111	73.4	66	111	96.2	87	27* [a]	52-116/22
105-60-2	Caprolactam	ND		111	40.8	37	111	45.9	41	12	10-106/34
218-01-9	Chrysene	ND		111	70.4	63	111	87.9	79	22	41-128/24
111-91-1	bis(2-Chloroethoxy)methane	ND		111	63.5	57	111	81.3	73	25* [a]	46-120/24
111-44-4	bis(2-Chloroethyl)ether	ND		111	71.1	64	111	88.5	80	22	42-123/28

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JC21347
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP94425-MS	F157718.D	1	06/03/16	JJ	06/02/16	OP94425	EF6637
OP94425-MSD	F157719.D	1	06/03/16	JJ	06/02/16	OP94425	EF6637
JC21116-5	F157723.D	1	06/03/16	JJ	06/02/16	OP94425	EF6637

The QC reported here applies to the following samples: **Method:** SW846 8270D

JC21347-1, JC21347-3

CAS No.	Compound	JC21116-5 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
108-60-1	bis(2-Chloroisopropyl)ether	ND		111	57.2	51	111	69.0	62	19	41-117/25
7005-72-3	4-Chlorophenyl phenyl ether	ND		111	74.6	67	111	94.3	85	23* [a]	48-121/21
121-14-2	2,4-Dinitrotoluene	ND		111	76.7	69	111	100	90	26	54-123/27
606-20-2	2,6-Dinitrotoluene	ND		111	76.9	69	111	97.0	87	23	55-125/26
91-94-1	3,3'-Dichlorobenzidine	ND		222	88.5	40	222	87.9	40	1	10-107/47
123-91-1	1,4-Dioxane	ND		111	49.2	44	111	53.0	48	7	10-119/31
53-70-3	Dibenzo(a,h)anthracene	ND		111	79.1	71	111	98.1	88	21	35-130/27
132-64-9	Dibenzofuran	ND		111	68.8	62	111	91.3	82	28* [a]	53-112/22
84-74-2	Di-n-butyl phthalate	ND		111	79.4	71	111	102	92	25* [a]	38-129/23
117-84-0	Di-n-octyl phthalate	ND		111	75.2	68	111	90.2	81	18	35-145/26
84-66-2	Diethyl phthalate	ND		111	76.7	69	111	97.4	88	24	16-136/30
131-11-3	Dimethyl phthalate	ND		111	72.2	65	111	92.4	83	25	10-143/39
117-81-7	bis(2-Ethylhexyl)phthalate	ND		111	71.9	65	111	90.7	82	23	34-141/28
206-44-0	Fluoranthene	ND		111	76.0	68	111	95.7	86	23	47-123/24
86-73-7	Fluorene	ND		111	74.3	67	111	96.7	87	26* [a]	56-117/22
118-74-1	Hexachlorobenzene	ND		111	84.4	76	111	103	93	20	46-125/24
87-68-3	Hexachlorobutadiene	ND		111	54.3	49	111	64.4	58	17	26-121/24
77-47-4	Hexachlorocyclopentadiene	ND		222	98.4	44	222	128	58	26	10-133/31
67-72-1	Hexachloroethane	ND		111	52.7	47	111	63.2	57	18	35-111/26
193-39-5	Indeno(1,2,3-cd)pyrene	ND		111	72.9	66	111	92.8	84	24	32-130/30
78-59-1	Isophorone	ND		111	78.4	71	111	100	90	24* [a]	47-126/23
90-12-0	1-Methylnaphthalene	ND		111	63.1	57	111	79.1	71	23	34-124/25
91-57-6	2-Methylnaphthalene	ND		111	60.3	54	111	78.8	71	27* [a]	34-123/24
88-74-4	2-Nitroaniline	ND		111	93.4	84	111	122	110	27* [a]	46-137/23
99-09-2	3-Nitroaniline	ND		111	62.3	56	111	62.0	56	0	10-110/50
100-01-6	4-Nitroaniline	ND		111	61.6	55	111	77.4	70	23	38-118/25
98-95-3	Nitrobenzene	ND		111	80.8	73	111	99.5	90	21	35-130/25
621-64-7	N-Nitroso-di-n-propylamine	ND		111	83.2	75	111	105	95	23* [a]	45-123/22
86-30-6	N-Nitrosodiphenylamine	ND		111	72.2	65	111	92.1	83	24	46-123/24
85-01-8	Phenanthrene	ND		111	73.4	66	111	94.2	85	25* [a]	48-121/23
129-00-0	Pyrene	ND		111	70.5	63	111	87.7	79	22	43-124/26
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		111	57.6	52	111	79.2	71	32* [a]	25-142/24

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JC21347
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP94425-MS	F157718.D	1	06/03/16	JJ	06/02/16	OP94425	EF6637
OP94425-MSD	F157719.D	1	06/03/16	JJ	06/02/16	OP94425	EF6637
JC21116-5	F157723.D	1	06/03/16	JJ	06/02/16	OP94425	EF6637

The QC reported here applies to the following samples: **Method:** SW846 8270D

JC21347-1, JC21347-3

CAS No.	Surrogate Recoveries	MS	MSD	JC21116-5	Limits
367-12-4	2-Fluorophenol	55%	66%	37%	14-88%
4165-62-2	Phenol-d5	55%	66%	25%	10-110%
118-79-6	2,4,6-Tribromophenol	81%	104%	95%	39-149%
4165-60-0	Nitrobenzene-d5	67%	84%	80%	32-128%
321-60-8	2-Fluorobiphenyl	61%	79%	66%	35-119%
1718-51-0	Terphenyl-d14	70%	84%	75%	10-126%

(a) Analytical precision exceeds in-house control limits.

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JC21347
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP94471-MS	2P59952.D	1	06/08/16	RL	06/04/16	OP94471	E2P2614
OP94471-MSD	2P59953.D	1	06/08/16	RL	06/04/16	OP94471	E2P2614
JC21338-1A	2P59944.D	1	06/08/16	RL	06/04/16	OP94471	E2P2614

The QC reported here applies to the following samples: **Method:** SW846 8270D

JC21347-2

CAS No.	Compound	JC21338-1A ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	Spike ug/kg	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
95-57-8	2-Chlorophenol	ND		1770	1210	68	1800	1260	70	4	33-106/35
59-50-7	4-Chloro-3-methyl phenol	ND		1770	1310	74	1800	1350	75	3	27-124/34
120-83-2	2,4-Dichlorophenol	ND		1770	1290	73	1800	1330	74	3	25-122/34
105-67-9	2,4-Dimethylphenol	ND		1770	1280	72	1800	1330	74	4	23-133/34
51-28-5	2,4-Dinitrophenol	ND		3540	694	20	3600	843	23	19	10-110/51
534-52-1	4,6-Dinitro-o-cresol	ND		1770	486	27	1800	576	32	17	10-113/49
95-48-7	2-Methylphenol	ND		1770	1190	67	1800	1250	69	5	32-111/34
	3&4-Methylphenol	ND		1770	1240	70	1800	1300	72	5	32-113/34
88-75-5	2-Nitrophenol	ND		1770	1260	71	1800	1300	72	3	17-118/37
100-02-7	4-Nitrophenol	ND		1770	1380	78	1800	1420	79	3	14-154/39
87-86-5	Pentachlorophenol	ND		1770	1010	57	1800	1070	59	6	10-131/43
108-95-2	Phenol	ND		1770	1140	64	1800	1180	66	3	25-112/33
58-90-2	2,3,4,6-Tetrachlorophenol	ND		1770	1230	69	1800	1250	69	2	19-125/37
95-95-4	2,4,5-Trichlorophenol	ND		1770	1250	71	1800	1270	70	2	30-125/35
88-06-2	2,4,6-Trichlorophenol	ND		1770	1320	74	1800	1320	73	0	26-126/35
83-32-9	Acenaphthene	ND		1770	1260	71	1800	1230	68	2	34-125/36
208-96-8	Acenaphthylene	ND		1770	1210	68	1800	1190	66	2	28-113/34
98-86-2	Acetophenone	ND		1770	1200	68	1800	1250	69	4	26-120/34
120-12-7	Anthracene	ND		1770	1280	72	1800	1290	72	1	31-131/41
1912-24-9	Atrazine	ND		1770	1370	77	1800	1420	79	4	34-138/36
56-55-3	Benzo(a)anthracene	ND		1770	1310	74	1800	1310	73	0	23-136/43
50-32-8	Benzo(a)pyrene	ND		1770	1320	74	1800	1350	75	2	22-144/42
205-99-2	Benzo(b)fluoranthene	ND		1770	1310	74	1800	1330	74	2	18-145/43
191-24-2	Benzo(g,h,i)perylene	ND		1770	1220	69	1800	1260	70	3	20-138/43
207-08-9	Benzo(k)fluoranthene	ND		1770	1380	78	1800	1380	77	0	27-129/43
101-55-3	4-Bromophenyl phenyl ether	ND		1770	1340	76	1800	1360	75	1	39-124/33
85-68-7	Butyl benzyl phthalate	74.3		1770	1650	89	1800	1620	86	2	27-143/35
92-52-4	1,1'-Biphenyl	ND		1770	1170	66	1800	1190	66	2	33-116/32
100-52-7	Benzaldehyde	ND		1770	1370	77	1800	1340	74	2	20-129/34
91-58-7	2-Chloronaphthalene	ND		1770	1180	67	1800	1160	64	2	38-110/32
106-47-8	4-Chloroaniline	ND		1770	708	40	1800	710	39	0	10-110/49
86-74-8	Carbazole	ND		1770	1300	73	1800	1320	73	2	27-129/38
105-60-2	Caprolactam	ND		1770	1220	69	1800	1220	68	0	18-127/35
218-01-9	Chrysene	ND		1770	1330	75	1800	1330	74	0	21-142/43
111-91-1	bis(2-Chloroethoxy)methane	ND		1770	1230	69	1800	1240	69	1	32-116/33
111-44-4	bis(2-Chloroethyl)ether	ND		1770	1220	69	1800	1250	69	2	30-113/37

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JC21347
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP94471-MS	2P59952.D	1	06/08/16	RL	06/04/16	OP94471	E2P2614
OP94471-MSD	2P59953.D	1	06/08/16	RL	06/04/16	OP94471	E2P2614
JC21338-1A	2P59944.D	1	06/08/16	RL	06/04/16	OP94471	E2P2614

The QC reported here applies to the following samples: **Method:** SW846 8270D

JC21347-2

CAS No.	Compound	JC21338-1A ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	Spike ug/kg	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
108-60-1	bis(2-Chloroisopropyl)ether	ND		1770	1040	59	1800	1050	58	1	28-110/33
7005-72-3	4-Chlorophenyl phenyl ether	ND		1770	1250	71	1800	1240	69	1	38-119/33
121-14-2	2,4-Dinitrotoluene	ND		1770	1220	69	1800	1200	67	2	28-126/36
606-20-2	2,6-Dinitrotoluene	ND		1770	1280	72	1800	1260	70	2	31-126/34
91-94-1	3,3'-Dichlorobenzidine	ND		3540	2360	67	3600	2430	67	3	10-115/44
53-70-3	Dibenzo(a,h)anthracene	ND		1770	1270	72	1800	1300	72	2	25-135/41
132-64-9	Dibenzofuran	ND		1770	1230	69	1800	1230	68	0	30-125/35
84-74-2	Di-n-butyl phthalate	ND		1770	1390	78	1800	1430	79	3	32-131/34
117-84-0	Di-n-octyl phthalate	ND		1770	1540	87	1800	1560	87	1	28-144/35
84-66-2	Diethyl phthalate	ND		1770	1320	74	1800	1290	72	2	35-124/32
131-11-3	Dimethyl phthalate	ND		1770	1270	72	1800	1240	69	2	36-121/33
117-81-7	bis(2-Ethylhexyl)phthalate	ND		1770	1530	86	1800	1520	84	1	25-146/35
206-44-0	Fluoranthene	ND		1770	1330	75	1800	1340	74	1	15-143/46
86-73-7	Fluorene	ND		1770	1250	71	1800	1230	68	2	30-129/37
118-74-1	Hexachlorobenzene	ND		1770	1260	71	1800	1250	69	1	34-125/34
87-68-3	Hexachlorobutadiene	ND		1770	1230	69	1800	1240	69	1	29-120/34
77-47-4	Hexachlorocyclopentadiene	ND		3540	778	22	3600	877	24	12	10-127/46
67-72-1	Hexachloroethane	ND		1770	1030	58	1800	1050	58	2	21-109/38
193-39-5	Indeno(1,2,3-cd)pyrene	ND		1770	1280	72	1800	1320	73	3	23-141/44
78-59-1	Isophorone	ND		1770	1280	72	1800	1280	71	0	31-124/32
90-12-0	1-Methylnaphthalene	ND		1770	1180	67	1800	1200	67	2	24-122/33
91-57-6	2-Methylnaphthalene	ND		1770	1200	68	1800	1220	68	2	21-125/33
88-74-4	2-Nitroaniline	ND		1770	1370	77	1800	1380	77	1	29-138/33
99-09-2	3-Nitroaniline	ND		1770	1090	62	1800	1050	58	4	12-112/38
100-01-6	4-Nitroaniline	ND		1770	1230	69	1800	1270	70	3	21-117/38
98-95-3	Nitrobenzene	ND		1770	1200	68	1800	1200	67	0	28-118/32
621-64-7	N-Nitroso-di-n-propylamine	ND		1770	1170	66	1800	1200	67	3	26-121/34
86-30-6	N-Nitrosodiphenylamine	ND		1770	1380	78	1800	1400	78	1	24-142/35
85-01-8	Phenanthrene	ND		1770	1290	73	1800	1290	72	0	14-144/44
129-00-0	Pyrene	ND		1770	1570	89	1800	1560	87	1	16-147/46
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		1770	1350	76	1800	1320	73	2	37-115/32

CAS No.	Surrogate Recoveries	MS	MSD	JC21338-1A	Limits
367-12-4	2-Fluorophenol	68%	69%	65%	30-106%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JC21347
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP94471-MS	2P59952.D	1	06/08/16	RL	06/04/16	OP94471	E2P2614
OP94471-MSD	2P59953.D	1	06/08/16	RL	06/04/16	OP94471	E2P2614
JC21338-1A	2P59944.D	1	06/08/16	RL	06/04/16	OP94471	E2P2614

The QC reported here applies to the following samples: **Method:** SW846 8270D

JC21347-2

CAS No.	Surrogate Recoveries	MS	MSD	JC21338-1A	Limits
4165-62-2	Phenol-d5	65%	67%	70%	30-106%
118-79-6	2,4,6-Tribromophenol	79%	80%	94%	24-140%
4165-60-0	Nitrobenzene-d5	70%	71%	81%	26-122%
321-60-8	2-Fluorobiphenyl	70%	70%	86%	36-112%
1718-51-0	Terphenyl-d14	88%	89%	104%	36-132%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JC21347
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP94425A-MS	3M62203.D	1	06/14/16	LK	06/02/16	OP94425A	E3M2934
OP94425A-MSD	3M62204.D	1	06/14/16	LK	06/02/16	OP94425A	E3M2934
JC21116-6 [a]	3M61941.D	1	06/04/16	LK	06/02/16	OP94425A	E3M2919

The QC reported here applies to the following samples: **Method:** SW846 8270D BY SIM

JC21347-1, JC21347-3

CAS No.	Compound	JC21116-6 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
91-20-3	Naphthalene	ND		2	1.63	82	2	1.20	60	30	23-140/36
123-91-1	1,4-Dioxane	ND		2	1.04	52	2	0.843	42	21	20-160/30

CAS No.	Surrogate Recoveries	MS	MSD	JC21116-6	Limits
367-12-4	2-Fluorophenol	62%	54%	48%	14-81%
4165-62-2	Phenol-d5	50%	44%	34%	11-54%
118-79-6	2,4,6-Tribromophenol	87%	64%	87%	35-145%
4165-60-0	Nitrobenzene-d5	65%	51%	79%	24-125%
321-60-8	2-Fluorobiphenyl	79%	59%	77%	19-127%
1718-51-0	Terphenyl-d14	81%	65%	78%	10-119%

(a) Elevated detection limit due to low volume of sample extracted.

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JC21347
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP94471A-MS	3M62163.D	1	06/11/16	JJ	06/04/16	OP94471A	E3M2930
OP94471A-MSD	3M62164.D	1	06/11/16	JJ	06/04/16	OP94471A	E3M2930
JC21347-2	3M62165.D	1	06/11/16	JJ	06/04/16	OP94471A	E3M2930

The QC reported here applies to the following samples: **Method:** SW846 8270D BY SIM

JC21347-2

CAS No.	Compound	JC21347-2 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	Spike ug/kg	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
123-91-1	1,4-Dioxane	ND		42.5	29.9	70	42.5	30.7	72	3	50-150/30
91-20-3	Naphthalene	ND		42.5	31.3	74	42.7	33.3	78	6	10-190/36

CAS No.	Surrogate Recoveries	MS	MSD	JC21347-2	Limits
4165-60-0	Nitrobenzene-d5	77%	83%	82%	15-138%
321-60-8	2-Fluorobiphenyl	92%	100%	91%	12-148%
1718-51-0	Terphenyl-d14	102%	105%	98%	10-157%

* = Outside of Control Limits.

Instrument Performance Check (DFTPP)

Job Number: JC21347
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample: E2P2606-DFTPP
Lab File ID: 2P59745.D
Instrument ID: GCMS2P
Injection Date: 06/02/16
Injection Time: 10:31

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	40658	59.8		Pass
68	Less than 2.0% of mass 69	504	0.74	(1.63) [a]	Pass
69	Mass 69 relative abundance	30884	45.5		Pass
70	Less than 2.0% of mass 69	93	0.14	(0.30) [a]	Pass
127	40.0 - 60.0% of mass 198	34024	50.1		Pass
197	Less than 1.0% of mass 198	0	0.00		Pass
198	Base peak, 100% relative abundance	67944	100.0		Pass
199	5.0 - 9.0% of mass 198	5265	7.75		Pass
275	10.0 - 30.0% of mass 198	14189	20.9		Pass
365	1.0 - 100.0% of mass 198	2136	3.14		Pass
441	Present, but less than mass 443	8745	12.9	(82.7) [b]	Pass
442	40.0 - 100.0% of mass 198	57280	84.3		Pass
443	17.0 - 23.0% of mass 442	10576	15.6	(18.5) [c]	Pass

(a) Value is % of mass 69
(b) Value is % of mass 443
(c) Value is % of mass 442

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
E2P2606-ICC2606	2P59746.D	06/02/16	10:43	00:12	Initial cal 50
E2P2606-IC2606	2P59747.D	06/02/16	11:17	00:46	Initial cal 2
E2P2606-IC2606	2P59748.D	06/02/16	11:39	01:08	Initial cal 1
E2P2606-IC2606	2P59749.D	06/02/16	12:00	01:29	Initial cal 100
E2P2606-IC2606	2P59750.D	06/02/16	12:22	01:51	Initial cal 80
E2P2606-IC2606	2P59751.D	06/02/16	12:44	02:13	Initial cal 25
E2P2606-IC2606	2P59752.D	06/02/16	13:05	02:34	Initial cal 10
E2P2606-IC2606	2P59753.D	06/02/16	13:27	02:56	Initial cal 5

Instrument Performance Check (DFTPP)

Job Number: JC21347
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample: E2P2607-DFTPP
Lab File ID: 2P59754.D
Instrument ID: GCMS2P
Injection Date: 06/02/16
Injection Time: 14:58

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	40122	56.7		Pass
68	Less than 2.0% of mass 69	593	0.84	(1.99) [a]	Pass
69	Mass 69 relative abundance	29838	42.2		Pass
70	Less than 2.0% of mass 69	102	0.14	(0.34) [a]	Pass
127	40.0 - 60.0% of mass 198	34499	48.7		Pass
197	Less than 1.0% of mass 198	0	0.00		Pass
198	Base peak, 100% relative abundance	70773	100.0		Pass
199	5.0 - 9.0% of mass 198	4797	6.78		Pass
275	10.0 - 30.0% of mass 198	16083	22.7		Pass
365	1.0 - 100.0% of mass 198	2370	3.35		Pass
441	Present, but less than mass 443	11331	16.0	(93.7) [b]	Pass
442	40.0 - 100.0% of mass 198	61827	87.4		Pass
443	17.0 - 23.0% of mass 442	12088	17.1	(19.6) [c]	Pass

(a) Value is % of mass 69
(b) Value is % of mass 443
(c) Value is % of mass 442

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
E2P2607-ICC2607	2P59755.D	06/02/16	15:08	00:10	Initial cal 50
E2P2607-IC2607	2P59756.D	06/02/16	15:30	00:32	Initial cal 1
E2P2607-IC2607	2P59757.D	06/02/16	15:51	00:53	Initial cal 100
E2P2607-IC2607	2P59758.D	06/02/16	16:13	01:15	Initial cal 2
E2P2607-IC2607	2P59759.D	06/02/16	16:35	01:37	Initial cal 80
E2P2607-IC2607	2P59760.D	06/02/16	16:57	01:59	Initial cal 5
E2P2607-IC2607	2P59761.D	06/02/16	17:19	02:21	Initial cal 25
E2P2607-IC2607	2P59762.D	06/02/16	17:41	02:43	Initial cal 10
E2P2607-ICV2607	2P59763A.D	06/02/16	18:02	03:04	Initial cal verification 50
E2P2607-ICV2606	2P59763.D	06/02/16	18:02	03:04	Initial cal verification 50
E2P2607-ICV2607	2P59764A.D	06/02/16	18:24	03:26	Initial cal verification 50
E2P2607-ICV2606	2P59764.D	06/02/16	18:24	03:26	Initial cal verification 50
E2P2607-ICV2606	2P59765.D	06/02/16	18:46	03:48	Initial cal verification 50
E2P2607-ICV2606	2P59766.D	06/02/16	19:08	04:10	Initial cal verification 50
E2P2607-ICV2606	2P59767.D	06/02/16	19:30	04:32	Initial cal verification 50
E2P2607-ICV2607	2P59768.D	06/02/16	19:52	04:54	Initial cal verification 50

Instrument Performance Check (DFTPP)

Job Number: JC21347
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample: E2P2614-DFTPP
Lab File ID: 2P59931.D
Instrument ID: GCMS2P
Injection Date: 06/08/16
Injection Time: 09:54

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	39282	59.4		Pass
68	Less than 2.0% of mass 69	272	0.41	(0.94) [a]	Pass
69	Mass 69 relative abundance	28801	43.6		Pass
70	Less than 2.0% of mass 69	244	0.37	(0.85) [a]	Pass
127	40.0 - 60.0% of mass 198	31563	47.8		Pass
197	Less than 1.0% of mass 198	0	0.00		Pass
198	Base peak, 100% relative abundance	66100	100.0		Pass
199	5.0 - 9.0% of mass 198	4463	6.75		Pass
275	10.0 - 30.0% of mass 198	15322	23.2		Pass
365	1.0 - 100.0% of mass 198	2372	3.59		Pass
441	Present, but less than mass 443	10239	15.5	(96.0) [b]	Pass
442	40.0 - 100.0% of mass 198	57003	86.2		Pass
443	17.0 - 23.0% of mass 442	10663	16.1	(18.7) [c]	Pass

(a) Value is % of mass 69
(b) Value is % of mass 443
(c) Value is % of mass 442

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
E2P2614-CC2606	2P59932.D	06/08/16	10:09	00:15	Continuing cal 25
E2P2614-CC2607	2P59933.D	06/08/16	10:35	00:41	Continuing cal 25
OP94471-MB1	2P59934.D	06/08/16	11:01	01:07	Method Blank
OP94471-BS1	2P59935.D	06/08/16	11:22	01:28	Blank Spike
ZZZZZZ	2P59936.D	06/08/16	11:44	01:50	(unrelated sample)
ZZZZZZ	2P59937.D	06/08/16	12:06	02:12	(unrelated sample)
ZZZZZZ	2P59938.D	06/08/16	12:27	02:33	(unrelated sample)
ZZZZZZ	2P59939.D	06/08/16	12:49	02:55	(unrelated sample)
ZZZZZZ	2P59940.D	06/08/16	13:11	03:17	(unrelated sample)
ZZZZZZ	2P59941.D	06/08/16	13:33	03:39	(unrelated sample)
JC21338-1A	2P59944.D	06/08/16	14:38	04:44	(used for QC only; not part of job JC21347)
ZZZZZZ	2P59945.D	06/08/16	14:59	05:05	(unrelated sample)
ZZZZZZ	2P59946.D	06/08/16	15:21	05:27	(unrelated sample)
ZZZZZZ	2P59947.D	06/08/16	15:43	05:49	(unrelated sample)
ZZZZZZ	2P59948.D	06/08/16	16:05	06:11	(unrelated sample)
ZZZZZZ	2P59949.D	06/08/16	16:26	06:32	(unrelated sample)
ZZZZZZ	2P59950.D	06/08/16	16:48	06:54	(unrelated sample)
ZZZZZZ	2P59951.D	06/08/16	17:10	07:16	(unrelated sample)
OP94471-MS	2P59952.D	06/08/16	17:32	07:38	Matrix Spike

Instrument Performance Check (DFTPP)

Job Number: JC21347
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample: E2P2614-DFTPP
Lab File ID: 2P59931.D
Instrument ID: GCMS2P
Injection Date: 06/08/16
Injection Time: 09:54

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
OP94471-MSD	2P59953.D	06/08/16	17:53	07:59	Matrix Spike Duplicate
JC21347-2	2P59954.D	06/08/16	18:15	08:21	RA12(15-16)
ZZZZZZ	2P59955.D	06/08/16	18:37	08:43	(unrelated sample)
ZZZZZZ	2P59956.D	06/08/16	18:59	09:05	(unrelated sample)
ZZZZZZ	2P59957.D	06/08/16	19:20	09:26	(unrelated sample)
OP94470-MS	2P59958.D	06/08/16	19:42	09:48	Matrix Spike
OP94470-MSD	2P59959.D	06/08/16	20:04	10:10	Matrix Spike Duplicate
ZZZZZZ	2P59960.D	06/08/16	20:25	10:31	(unrelated sample)
ZZZZZZ	2P59961.D	06/08/16	20:47	10:53	(unrelated sample)
ZZZZZZ	2P59962.D	06/08/16	21:09	11:15	(unrelated sample)
ZZZZZZ	2P59963.D	06/08/16	21:30	11:36	(unrelated sample)
ZZZZZZ	2P59964.D	06/08/16	21:52	11:58	(unrelated sample)

Instrument Performance Check (DFTPP)

Job Number: JC21347
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample: E3M2887-DFTPP
Lab File ID: 3M61384.D
Instrument ID: GCMS3M
Injection Date: 05/17/16
Injection Time: 08:56

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	227219	38.4		Pass
68	Less than 2.0% of mass 69	0	0.00	(0.00) [a]	Pass
69	Mass 69 relative abundance	310061	52.4		Pass
70	Less than 2.0% of mass 69	1471	0.25	(0.47) [a]	Pass
127	40.0 - 60.0% of mass 198	300411	50.8		Pass
197	Less than 1.0% of mass 198	0	0.00		Pass
198	Base peak, 100% relative abundance	591701	100.0		Pass
199	5.0 - 9.0% of mass 198	40848	6.90		Pass
275	10.0 - 30.0% of mass 198	147552	24.9		Pass
365	1.0 - 100.0% of mass 198	16496	2.79		Pass
441	Present, but less than mass 443	77365	13.1	(84.8) [b]	Pass
442	40.0 - 100.0% of mass 198	455819	77.0		Pass
443	17.0 - 23.0% of mass 442	91195	15.4	(20.0) [c]	Pass

(a) Value is % of mass 69
(b) Value is % of mass 443
(c) Value is % of mass 442

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
E3M2887-ICC2887	3M61387A.D	05/17/16	12:27	03:31	Initial cal 1
E3M2887-IC2887	3M61388A.D	05/17/16	12:59	04:03	Initial cal .5
E3M2887-IC2887	3M61390A.D	05/17/16	14:04	05:08	Initial cal .1
E3M2887-IC2887	3M61391A.D	05/17/16	14:36	05:40	Initial cal .05
E3M2887-IC2887	3M61393.D	05/17/16	15:41	06:45	Initial cal .01
E3M2887-IC2887	3M61394.D	05/17/16	16:13	07:17	Initial cal 5
E3M2887-IC2887	3M61395.D	05/17/16	16:46	07:50	Initial cal 2.5
E3M2887-IC2887	3M61389B.D	05/17/16	17:18	08:22	Initial cal .2
E3M2887-IC2887	3M61392B.D	05/17/16	18:08	09:12	Initial cal .02
E3M2887-ICV2887	3M61397.D	05/17/16	19:13	10:17	Initial cal verification 1
E3M2887-ICV2887	3M61398.D	05/17/16	19:45	10:49	Initial cal verification 1

Instrument Performance Check (DFTPP)

Job Number: JC21347
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample: E3M2888-DFTPP
Lab File ID: 3M61399.D
Instrument ID: GCMS3M
Injection Date: 05/18/16
Injection Time: 09:00

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	267029	39.1		Pass
68	Less than 2.0% of mass 69	0	0.00	(0.00) [a]	Pass
69	Mass 69 relative abundance	357507	52.4		Pass
70	Less than 2.0% of mass 69	1860	0.27	(0.52) [a]	Pass
127	40.0 - 60.0% of mass 198	345301	50.6		Pass
197	Less than 1.0% of mass 198	0	0.00		Pass
198	Base peak, 100% relative abundance	682517	100.0		Pass
199	5.0 - 9.0% of mass 198	47960	7.03		Pass
275	10.0 - 30.0% of mass 198	161619	23.7		Pass
365	1.0 - 100.0% of mass 198	18721	2.74		Pass
441	Present, but less than mass 443	91392	13.4	(84.3) [b]	Pass
442	40.0 - 100.0% of mass 198	550485	80.7		Pass
443	17.0 - 23.0% of mass 442	108472	15.9	(19.7) [c]	Pass

(a) Value is % of mass 69
(b) Value is % of mass 443
(c) Value is % of mass 442

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
E3M2888-ICV2887	3M61400.D	05/18/16	09:12	00:12	Initial cal verification 1

Instrument Performance Check (DFTPP)

Job Number: JC21347
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample: E3M2918-DFTPP
Lab File ID: 3M61908.D
Instrument ID: GCMS3M
Injection Date: 06/03/16
Injection Time: 07:44

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	246251	39.8		Pass
68	Less than 2.0% of mass 69	0	0.00	(0.00) [a]	Pass
69	Mass 69 relative abundance	330004	53.4		Pass
70	Less than 2.0% of mass 69	2202	0.36	(0.67) [a]	Pass
127	40.0 - 60.0% of mass 198	310162	50.2		Pass
197	Less than 1.0% of mass 198	0	0.00		Pass
198	Base peak, 100% relative abundance	618240	100.0		Pass
199	5.0 - 9.0% of mass 198	44680	7.23		Pass
275	10.0 - 30.0% of mass 198	143512	23.2		Pass
365	1.0 - 100.0% of mass 198	13729	2.22		Pass
441	Present, but less than mass 443	82136	13.3	(94.7) [b]	Pass
442	40.0 - 100.0% of mass 198	462571	74.8		Pass
443	17.0 - 23.0% of mass 442	86747	14.0	(18.8) [c]	Pass

(a) Value is % of mass 69
(b) Value is % of mass 443
(c) Value is % of mass 442

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
E3M2918-CC2887	3M61909.D	06/03/16	07:55	00:11	Continuing cal 0.5
OP94425A-MB1	3M61910.D	06/03/16	08:27	00:43	Method Blank
OP94425A-BS12	3M61911.D	06/03/16	08:59	01:15	Blank Spike
JC21347-1	3M61912.D	06/03/16	09:31	01:47	SB101-GWS
JC21347-3	3M61913.D	06/03/16	10:04	02:20	RA12-GWS
OP94215A-MB1	3M61914.D	06/03/16	10:36	02:52	Method Blank
OP94255A-MB1	3M61915.D	06/03/16	11:08	03:24	Method Blank
ZZZZZZ	3M61916.D	06/03/16	11:40	03:56	(unrelated sample)
ZZZZZZ	3M61917.D	06/03/16	12:12	04:28	(unrelated sample)
ZZZZZZ	3M61918.D	06/03/16	12:44	05:00	(unrelated sample)
ZZZZZZ	3M61919.D	06/03/16	13:17	05:33	(unrelated sample)
ZZZZZZ	3M61920.D	06/03/16	13:49	06:05	(unrelated sample)
ZZZZZZ	3M61921.D	06/03/16	14:21	06:37	(unrelated sample)

Instrument Performance Check (DFTPP)

Job Number: JC21347
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample: E3M2919-DFTPP
Lab File ID: 3M61922.D
Instrument ID: GCMS3M
Injection Date: 06/03/16
Injection Time: 15:08

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	288709	41.4		Pass
68	Less than 2.0% of mass 69	0	0.00	(0.00) [a]	Pass
69	Mass 69 relative abundance	377380	54.1		Pass
70	Less than 2.0% of mass 69	1928	0.28	(0.51) [a]	Pass
127	40.0 - 60.0% of mass 198	364553	52.3		Pass
197	Less than 1.0% of mass 198	0	0.00		Pass
198	Base peak, 100% relative abundance	697304	100.0		Pass
199	5.0 - 9.0% of mass 198	45385	6.51		Pass
275	10.0 - 30.0% of mass 198	157773	22.6		Pass
365	1.0 - 100.0% of mass 198	16365	2.35		Pass
441	Present, but less than mass 443	78400	11.2	(84.3) [b]	Pass
442	40.0 - 100.0% of mass 198	489979	70.3		Pass
443	17.0 - 23.0% of mass 442	92959	13.3	(19.0) [c]	Pass

(a) Value is % of mass 69
(b) Value is % of mass 443
(c) Value is % of mass 442

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
E3M2919-CC2887	3M61923.D	06/03/16	15:20	00:12	Continuing cal 1
OP94245A-MB1	3M61924.D	06/03/16	15:52	00:44	Method Blank
OP94245A-BS12	3M61925.D	06/03/16	16:25	01:17	Blank Spike
OP94245A-MS	3M61926.D	06/03/16	16:57	01:49	Matrix Spike
OP94245A-MSD	3M61927.D	06/03/16	17:29	02:21	Matrix Spike Duplicate
ZZZZZZ	3M61928.D	06/03/16	18:02	02:54	(unrelated sample)
JC20816-10	3M61929.D	06/03/16	18:34	03:26	(used for QC only; not part of job JC21347)
ZZZZZZ	3M61930.D	06/03/16	19:06	03:58	(unrelated sample)
ZZZZZZ	3M61931.D	06/03/16	19:39	04:31	(unrelated sample)
ZZZZZZ	3M61932.D	06/03/16	20:11	05:03	(unrelated sample)
OP94253A-MB1	3M61933.D	06/03/16	20:43	05:35	Method Blank
OP94253A-BS12	3M61934.D	06/03/16	21:16	06:08	Blank Spike
ZZZZZZ	3M61935.D	06/03/16	21:48	06:40	(unrelated sample)
ZZZZZZ	3M61936.D	06/03/16	22:20	07:12	(unrelated sample)
ZZZZZZ	3M61937.D	06/03/16	22:52	07:44	(unrelated sample)
OP94425A-MB1	3M61938.D	06/03/16	23:25	08:17	Method Blank
OP94425A-BS12	3M61939.D	06/03/16	23:57	08:49	Blank Spike
ZZZZZZ	3M61940.D	06/04/16	00:29	09:21	(unrelated sample)
JC21116-6	3M61941.D	06/04/16	01:01	09:53	(used for QC only; not part of job JC21347)

Instrument Performance Check (DFTPP)

Job Number: JC21347
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample:	E3M2919-DFTPP	**Injection Date:**	06/03/16
Lab File ID:	3M61922.D	**Injection Time:**	15:08
Instrument ID:	GCMS3M		

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
ZZZZZZ	3M61942.D	06/04/16	01:33	10:25	(unrelated sample)
ZZZZZZ	3M61943.D	06/04/16	02:05	10:57	(unrelated sample)
ZZZZZZ	3M61944.D	06/04/16	02:37	11:29	(unrelated sample)

Instrument Performance Check (DFTPP)

Job Number: JC21347
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample: E3M2930-DFTPP
Lab File ID: 3M62146.D
Instrument ID: GCMS3M
Injection Date: 06/10/16
Injection Time: 20:33

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	323739	41.6		Pass
68	Less than 2.0% of mass 69	0	0.00	(0.00) [a]	Pass
69	Mass 69 relative abundance	412956	53.1		Pass
70	Less than 2.0% of mass 69	1226	0.16	(0.30) [a]	Pass
127	40.0 - 60.0% of mass 198	397848	51.2		Pass
197	Less than 1.0% of mass 198	3174	0.41		Pass
198	Base peak, 100% relative abundance	777323	100.0		Pass
199	5.0 - 9.0% of mass 198	51112	6.58		Pass
275	10.0 - 30.0% of mass 198	177221	22.8		Pass
365	1.0 - 100.0% of mass 198	18811	2.42		Pass
441	Present, but less than mass 443	98712	12.7	(87.5) [b]	Pass
442	40.0 - 100.0% of mass 198	577067	74.2		Pass
443	17.0 - 23.0% of mass 442	112776	14.5	(19.5) [c]	Pass

(a) Value is % of mass 69
(b) Value is % of mass 443
(c) Value is % of mass 442

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
E3M2930-CC2887	3M62147.D	06/10/16	20:54	00:21	Continuing cal 0.5
OP94470A-MB1	3M62155.D	06/11/16	01:16	04:43	Method Blank
OP94470A-BS12	3M62156.D	06/11/16	01:48	05:15	Blank Spike
OP94470A-MS	3M62157.D	06/11/16	02:20	05:47	Matrix Spike
OP94470A-MSD	3M62158.D	06/11/16	02:51	06:18	Matrix Spike Duplicate
JC21261-2	3M62159.D	06/11/16	03:23	06:50	(used for QC only; not part of job JC21347)
ZZZZZZ	3M62160.D	06/11/16	03:55	07:22	(unrelated sample)
OP94471A-MB1	3M62161.D	06/11/16	04:27	07:54	Method Blank
OP94471A-BS12	3M62162.D	06/11/16	04:59	08:26	Blank Spike
OP94471A-MS	3M62163.D	06/11/16	05:31	08:58	Matrix Spike
OP94471A-MSD	3M62164.D	06/11/16	06:02	09:29	Matrix Spike Duplicate
JC21347-2	3M62165.D	06/11/16	06:34	10:01	RA12(15-16)
OP94419A-MB1	3M62166.D	06/11/16	07:06	10:33	Method Blank
OP94419A-BS12	3M62167.D	06/11/16	07:38	11:05	Blank Spike
JC21229-1	3M62168.D	06/11/16	08:09	11:36	(used for QC only; not part of job JC21347)

Instrument Performance Check (DFTPP)

Job Number: JC21347
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample: E3M2931-DFTPP
Lab File ID: 3M62181A.D
Instrument ID: GCMS3M
Injection Date: 06/13/16
Injection Time: 19:51

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	134859	44.0		Pass
68	Less than 2.0% of mass 69	0	0.00	(0.00) [a]	Pass
69	Mass 69 relative abundance	175800	57.4		Pass
70	Less than 2.0% of mass 69	1996	0.65	(1.14) [a]	Pass
127	40.0 - 60.0% of mass 198	173124	56.5		Pass
197	Less than 1.0% of mass 198	513	0.17		Pass
198	Base peak, 100% relative abundance	306219	100.0		Pass
199	5.0 - 9.0% of mass 198	20593	6.72		Pass
275	10.0 - 30.0% of mass 198	72536	23.7		Pass
365	1.0 - 100.0% of mass 198	8599	2.81		Pass
441	Present, but less than mass 443	24651	8.05	(86.4) [b]	Pass
442	40.0 - 100.0% of mass 198	146504	47.8		Pass
443	17.0 - 23.0% of mass 442	28524	9.31	(19.5) [c]	Pass

(a) Value is % of mass 69
(b) Value is % of mass 443
(c) Value is % of mass 442

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
E3M2931-ICC2931	3M62182.D	06/13/16	20:20	00:29	Initial cal 1.0
E3M2931-IC2931	3M62183.D	06/13/16	20:52	01:01	Initial cal 0.5
E3M2931-IC2931	3M62184.D	06/13/16	21:24	01:33	Initial cal 0.2
E3M2931-IC2931	3M62185.D	06/13/16	21:57	02:06	Initial cal 0.1
E3M2931-IC2931	3M62186.D	06/13/16	22:29	02:38	Initial cal 0.05
E3M2931-IC2931	3M62187.D	06/13/16	23:01	03:10	Initial cal 0.02
E3M2931-IC2931	3M62188.D	06/13/16	23:33	03:42	Initial cal 0.01
E3M2931-IC2931	3M62189.D	06/14/16	00:05	04:14	Initial cal 5
E3M2931-IC2931	3M62190.D	06/14/16	00:37	04:46	Initial cal 2.5

Instrument Performance Check (DFTPP)

Job Number: JC21347
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample: E3M2932-DFTPP
Lab File ID: 3M62194.D
Instrument ID: GCMS3M
Injection Date: 06/14/16
Injection Time: 09:32

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	155646	46.1		Pass
68	Less than 2.0% of mass 69	0	0.00	(0.00) [a]	Pass
69	Mass 69 relative abundance	205619	60.9		Pass
70	Less than 2.0% of mass 69	1271	0.38	(0.62) [a]	Pass
127	40.0 - 60.0% of mass 198	187315	55.5		Pass
197	Less than 1.0% of mass 198	0	0.00		Pass
198	Base peak, 100% relative abundance	337421	100.0		Pass
199	5.0 - 9.0% of mass 198	24433	7.24		Pass
275	10.0 - 30.0% of mass 198	80176	23.8		Pass
365	1.0 - 100.0% of mass 198	9763	2.89		Pass
441	Present, but less than mass 443	28643	8.49	(86.0) [b]	Pass
442	40.0 - 100.0% of mass 198	177891	52.7		Pass
443	17.0 - 23.0% of mass 442	33296	9.87	(18.7) [c]	Pass

(a) Value is % of mass 69
(b) Value is % of mass 443
(c) Value is % of mass 442

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
E3M2932-ICV2931	3M62197.D	06/14/16	10:04	00:32	Initial cal verification 1
E3M2932-ICV2931	3M62198.D	06/14/16	10:36	01:04	Initial cal verification 1

Instrument Performance Check (DFTPP)

Job Number: JC21347
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample: E3M2934-DFTPP
Lab File ID: 3M62201.D
Instrument ID: GCMS3M
Injection Date: 06/14/16
Injection Time: 12:30

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	173508	47.2		Pass
68	Less than 2.0% of mass 69	0	0.00	(0.00) [a]	Pass
69	Mass 69 relative abundance	226175	61.5		Pass
70	Less than 2.0% of mass 69	650	0.18	(0.29) [a]	Pass
127	40.0 - 60.0% of mass 198	211709	57.6		Pass
197	Less than 1.0% of mass 198	0	0.00		Pass
198	Base peak, 100% relative abundance	367509	100.0		Pass
199	5.0 - 9.0% of mass 198	24122	6.56		Pass
275	10.0 - 30.0% of mass 198	84125	22.9		Pass
365	1.0 - 100.0% of mass 198	11075	3.01		Pass
441	Present, but less than mass 443	27469	7.47	(82.7) [b]	Pass
442	40.0 - 100.0% of mass 198	169176	46.0		Pass
443	17.0 - 23.0% of mass 442	33201	9.03	(19.6) [c]	Pass

(a) Value is % of mass 69
(b) Value is % of mass 443
(c) Value is % of mass 442

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
E3M2934-CC2931	3M62202.D	06/14/16	12:42	00:12	Continuing cal 1
OP94425A-MS	3M62203.D	06/14/16	13:14	00:44	Matrix Spike
OP94425A-MSD	3M62204.D	06/14/16	13:47	01:17	Matrix Spike Duplicate
ZZZZZZ	3M62205.D	06/14/16	14:51	02:21	(unrelated sample)
OP94576A-MB1	3M62215.D	06/14/16	15:24	02:54	Method Blank
ZZZZZZ	3M62216.D	06/14/16	15:56	03:26	(unrelated sample)
ZZZZZZ	3M62217.D	06/14/16	16:28	03:58	(unrelated sample)
ZZZZZZ	3M62218.D	06/14/16	17:01	04:31	(unrelated sample)
ZZZZZZ	3M62206.D	06/14/16	17:33	05:03	(unrelated sample)
ZZZZZZ	3M62207.D	06/14/16	18:05	05:35	(unrelated sample)
ZZZZZZ	3M62208.D	06/14/16	18:38	06:08	(unrelated sample)
ZZZZZZ	3M62209.D	06/14/16	19:10	06:40	(unrelated sample)

Instrument Performance Check (DFTPP)

Job Number: JC21347
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample: EF6563-DFTPP
Lab File ID: F156050.D
Instrument ID: GCMSF
Injection Date: 04/04/16
Injection Time: 18:54

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	108584	30.9		Pass
68	Less than 2.0% of mass 69	596	0.17	(0.43) [a]	Pass
69	Mass 69 relative abundance	140032	39.9		Pass
70	Less than 2.0% of mass 69	642	0.18	(0.46) [a]	Pass
127	40.0 - 60.0% of mass 198	175460	50.0		Pass
197	Less than 1.0% of mass 198	0	0.00		Pass
198	Base peak, 100% relative abundance	351082	100.0		Pass
199	5.0 - 9.0% of mass 198	23024	6.56		Pass
275	10.0 - 30.0% of mass 198	62466	17.8		Pass
365	1.0 - 100.0% of mass 198	5730	1.63		Pass
441	Present, but less than mass 443	29498	8.40	(76.5) [b]	Pass
442	40.0 - 100.0% of mass 198	194704	55.5		Pass
443	17.0 - 23.0% of mass 442	38575	11.0	(19.8) [c]	Pass

(a) Value is % of mass 69
(b) Value is % of mass 443
(c) Value is % of mass 442

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
EF6563-IC6563	F156051.D	04/04/16	19:09	00:15	Initial cal 100
EF6563-IC6563	F156052.D	04/04/16	19:38	00:44	Initial cal 80
EF6563-ICC6563	F156053.D	04/04/16	20:07	01:13	Initial cal 50
EF6563-IC6563	F156054.D	04/04/16	20:37	01:43	Initial cal 25
EF6563-IC6563	F156055.D	04/04/16	21:06	02:12	Initial cal 10
EF6563-IC6563	F156056.D	04/04/16	21:35	02:41	Initial cal 5
EF6563-IC6563	F156057.D	04/04/16	22:04	03:10	Initial cal 2
EF6563-IC6563	F156058.D	04/04/16	22:33	03:39	Initial cal 1

Instrument Performance Check (DFTPP)

Job Number: JC21347
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample: EF6564-DFTPP
Lab File ID: F156059.D
Instrument ID: GCMSF
Injection Date: 04/04/16
Injection Time: 23:06

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	115179	32.1		Pass
68	Less than 2.0% of mass 69	157	0.04	(0.10) [a]	Pass
69	Mass 69 relative abundance	151437	42.2		Pass
70	Less than 2.0% of mass 69	785	0.22	(0.52) [a]	Pass
127	40.0 - 60.0% of mass 198	186202	51.9		Pass
197	Less than 1.0% of mass 198	0	0.00		Pass
198	Base peak, 100% relative abundance	358677	100.0		Pass
199	5.0 - 9.0% of mass 198	23181	6.46		Pass
275	10.0 - 30.0% of mass 198	63472	17.7		Pass
365	1.0 - 100.0% of mass 198	5413	1.51		Pass
441	Present, but less than mass 443	27575	7.69	(79.8) [b]	Pass
442	40.0 - 100.0% of mass 198	177434	49.5		Pass
443	17.0 - 23.0% of mass 442	34561	9.64	(19.5) [c]	Pass

(a) Value is % of mass 69
(b) Value is % of mass 443
(c) Value is % of mass 442

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
EF6564-IC6564	F156060.D	04/04/16	23:27	00:21	Initial cal 100
EF6564-IC6564	F156061.D	04/04/16	23:56	00:50	Initial cal 80
EF6564-ICC6564	F156062.D	04/05/16	00:25	01:19	Initial cal 50
EF6564-IC6564	F156063.D	04/05/16	00:53	01:47	Initial cal 25
EF6564-IC6564	F156064.D	04/05/16	01:22	02:16	Initial cal 10
EF6564-IC6564	F156065.D	04/05/16	01:51	02:45	Initial cal 5
EF6564-IC6564	F156066.D	04/05/16	02:19	03:13	Initial cal 2
EF6564-IC6564	F156067.D	04/05/16	02:48	03:42	Initial cal 1
EF6564-ICV6563	F156069.D	04/05/16	03:46	04:40	Initial cal verification 50
EF6564-ICV6563	F156070.D	04/05/16	04:15	05:09	Initial cal verification 50
EF6564-ICV6563	F156071.D	04/05/16	04:44	05:38	Initial cal verification 50
EF6564-ICV6564	F156071A.D	04/05/16	04:44	05:38	Initial cal verification 50
EF6564-ICV6563	F156072.D	04/05/16	05:13	06:07	Initial cal verification 50
EF6564-ICV6564	F156072A.D	04/05/16	05:13	06:07	Initial cal verification 50
EF6564-ICV6563	F156073.D	04/05/16	05:42	06:36	Initial cal verification 50
EF6564-ICV6564	F156073A.D	04/05/16	05:42	06:36	Initial cal verification 50

Instrument Performance Check (DFTPP)

Job Number: JC21347
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample: EF6565-DFTPP
Lab File ID: F156077.D
Instrument ID: GCMSF
Injection Date: 04/05/16
Injection Time: 12:39

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	113770	36.5		Pass
68	Less than 2.0% of mass 69	0	0.00	(0.00) [a]	Pass
69	Mass 69 relative abundance	155286	49.9		Pass
70	Less than 2.0% of mass 69	624	0.20	(0.40) [a]	Pass
127	40.0 - 60.0% of mass 198	168986	54.3		Pass
197	Less than 1.0% of mass 198	0	0.00		Pass
198	Base peak, 100% relative abundance	311320	100.0		Pass
199	5.0 - 9.0% of mass 198	22221	7.14		Pass
275	10.0 - 30.0% of mass 198	56352	18.1		Pass
365	1.0 - 100.0% of mass 198	5287	1.70		Pass
441	Present, but less than mass 443	24638	7.91	(73.1) [b]	Pass
442	40.0 - 100.0% of mass 198	165610	53.2		Pass
443	17.0 - 23.0% of mass 442	33689	10.8	(20.3) [c]	Pass

(a) Value is % of mass 69
(b) Value is % of mass 443
(c) Value is % of mass 442

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
EF6565-ICV6563	F156078.D	04/05/16	12:56	00:17	Initial cal verification 50

Instrument Performance Check (DFTPP)

Job Number: JC21347
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample: EF6567-DFTPP
Lab File ID: F156088.D
Instrument ID: GCMSF
Injection Date: 04/05/16
Injection Time: 18:00

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	102858	36.1		Pass
68	Less than 2.0% of mass 69	0	0.00	(0.00) [a]	Pass
69	Mass 69 relative abundance	139965	49.1		Pass
70	Less than 2.0% of mass 69	764	0.27	(0.55) [a]	Pass
127	40.0 - 60.0% of mass 198	155093	54.5		Pass
197	Less than 1.0% of mass 198	0	0.00		Pass
198	Base peak, 100% relative abundance	284778	100.0		Pass
199	5.0 - 9.0% of mass 198	18151	6.37		Pass
275	10.0 - 30.0% of mass 198	55232	19.4		Pass
365	1.0 - 100.0% of mass 198	5389	1.89		Pass
441	Present, but less than mass 443	28740	10.1	(74.0) [b]	Pass
442	40.0 - 100.0% of mass 198	192210	67.5		Pass
443	17.0 - 23.0% of mass 442	38818	13.6	(20.2) [c]	Pass

(a) Value is % of mass 69
(b) Value is % of mass 443
(c) Value is % of mass 442

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
EF6567-IC6567	F156089.D	04/05/16	18:25	00:25	Initial cal 100
EF6567-IC6567	F156090.D	04/05/16	18:54	00:54	Initial cal 80
EF6567-ICC6567	F156091.D	04/05/16	19:23	01:23	Initial cal 50
EF6567-IC6567	F156092.D	04/05/16	19:51	01:51	Initial cal 25
EF6567-IC6567	F156093.D	04/05/16	20:20	02:20	Initial cal 10
EF6567-IC6567	F156094.D	04/05/16	20:49	02:49	Initial cal 5
EF6567-IC6567	F156095.D	04/05/16	21:18	03:18	Initial cal 2
EF6567-IC6567	F156096.D	04/05/16	21:47	03:47	Initial cal 1
EF6567-ICV6564	F156097.D	04/05/16	22:16	04:16	Initial cal verification 50
EF6567-ICV6567	F156098.D	04/05/16	22:45	04:45	Initial cal verification 50
EF6567-ICV6567	F156099.D	04/05/16	23:14	05:14	Initial cal verification 50
EF6567-ICV6567	F156100.D	04/05/16	23:43	05:43	Initial cal verification 50
EF6567-ICV6567	F156101.D	04/06/16	00:12	06:12	Initial cal verification 50
EF6567-ICV6566	F156102.D	04/06/16	00:41	06:41	Initial cal verification 50
EF6567-ICV6566	F156104.D	04/06/16	01:39	07:39	Initial cal verification 50
EF6567-ICV6566	F156105.D	04/06/16	02:08	08:08	Initial cal verification 50
EF6567-ICV6566	F156106.D	04/06/16	02:38	08:38	Initial cal verification 50

Instrument Performance Check (DFTPP)

Job Number: JC21347
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample: EF6637-DFTPP
Lab File ID: F157712.D
Instrument ID: GCMSF
Injection Date: 06/02/16
Injection Time: 21:31

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	103298	42.1		Pass
68	Less than 2.0% of mass 69	0	0.00	(0.00) [a]	Pass
69	Mass 69 relative abundance	146433	59.6		Pass
70	Less than 2.0% of mass 69	1230	0.50	(0.84) [a]	Pass
127	40.0 - 60.0% of mass 198	145074	59.1		Pass
197	Less than 1.0% of mass 198	0	0.00		Pass
198	Base peak, 100% relative abundance	245546	100.0		Pass
199	5.0 - 9.0% of mass 198	17264	7.03		Pass
275	10.0 - 30.0% of mass 198	59797	24.4		Pass
365	1.0 - 100.0% of mass 198	6167	2.51		Pass
441	Present, but less than mass 443	35552	14.5	(77.5) [b]	Pass
442	40.0 - 100.0% of mass 198	240960	98.1		Pass
443	17.0 - 23.0% of mass 442	45880	18.7	(19.0) [c]	Pass

(a) Value is % of mass 69
(b) Value is % of mass 443
(c) Value is % of mass 442

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
EF6637-CC6563	F157713.D	06/02/16	21:51	00:20	Continuing cal 50
EF6637-CC6564	F157714.D	06/02/16	22:19	00:48	Continuing cal 50
OP94425-MB1	F157716.D	06/03/16	00:19	02:48	Method Blank
OP94425-BS1	F157717.D	06/03/16	00:49	03:18	Blank Spike
OP94425-MS	F157718.D	06/03/16	01:18	03:47	Matrix Spike
OP94425-MSD	F157719.D	06/03/16	01:47	04:16	Matrix Spike Duplicate
ZZZZZZ	F157720.D	06/03/16	02:16	04:45	(unrelated sample)
JC21347-1	F157721.D	06/03/16	02:44	05:13	SB101-GWS
JC21347-3	F157722.D	06/03/16	03:13	05:42	RA12-GWS
JC21116-5	F157723.D	06/03/16	03:42	06:11	(used for QC only; not part of job JC21347)
ZZZZZZ	F157724.D	06/03/16	04:11	06:40	(unrelated sample)
ZZZZZZ	F157725.D	06/03/16	04:39	07:08	(unrelated sample)
ZZZZZZ	F157726.D	06/03/16	05:08	07:37	(unrelated sample)
ZZZZZZ	F157727.D	06/03/16	05:37	08:06	(unrelated sample)
ZZZZZZ	F157728.D	06/03/16	06:06	08:35	(unrelated sample)
ZZZZZZ	F157729.D	06/03/16	06:34	09:03	(unrelated sample)

Semivolatile Internal Standard Area Summary

Job Number: JC21347
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Check Std:	E2P2614-CC2606	**Injection Date:**	06/08/16
Lab File ID:	2P59932.D	**Injection Time:**	10:09
Instrument ID:	GCMS2P	**Method:**	SW846 8270D

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
Check Std	311932	4.86	1030774	5.92	587875	7.37	1027159	8.71	993729	12.08	745113	14.09
Upper Limit [a]	623864	5.36	2061548	6.42	1175750	7.87	2054318	9.21	1987458	12.58	1490226	14.59
Lower Limit [b]	155966	4.36	515387	5.42	293938	6.87	513580	8.21	496865	11.58	372557	13.59

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
OP94471-MB1	422318	4.86	1540062	5.92	854549	7.37	1407731	8.70	1262030	12.07	872767	14.09
OP94471-BS1	348569	4.86	1198737	5.92	671201	7.37	1147813	8.71	1061939	12.08	849605	14.09
ZZZZZZ	504863	4.86	1786051	5.92	973737	7.37	1592876	8.71	1377689	12.08	1128422	14.10
ZZZZZZ	378168	4.86	936201	5.92	478634	7.37	842304	8.72	998881	12.08	873815	14.10
ZZZZZZ	424647	4.86	1530221	5.92	799941	7.37	1266546	8.71	1121410	12.08	928084	14.10
ZZZZZZ	327737	4.86	1131497	5.92	545857	7.37	851866	8.71	688810	12.09	577189	14.12
ZZZZZZ	356139	4.86	1186879	5.92	560715	7.37	813277	8.72	644020	12.12	544717	14.17
ZZZZZZ	340857	4.87	1216625	5.93	570013	7.38	787572	8.74	531630	12.16	505460	14.19
JC21338-1A	300266	4.87	1043581	5.93	580751	7.38	886614	8.72	617855	12.10	469538	14.13
ZZZZZZ	339309	4.87	1219705	5.93	669612	7.38	1072166	8.72	748273	12.10	558940	14.12
ZZZZZZ	299301	4.87	1091534	5.93	616329	7.38	977105	8.72	674853	12.10	514108	14.12
ZZZZZZ	353444	4.87	1270339	5.93	711541	7.38	1136603	8.72	831520	12.10	624613	14.12
ZZZZZZ	351026	4.87	1136853	5.93	551764	7.38	921315	8.72	768045	12.10	606441	14.12
ZZZZZZ	329256	4.87	1172027	5.92	640983	7.38	1038283	8.72	798735	12.09	591444	14.12
ZZZZZZ	396377	4.87	1415835	5.93	779050	7.38	1247146	8.72	985651	12.09	742252	14.12
ZZZZZZ	332522	4.87	1128006	5.93	599468	7.38	969667	8.72	857265	12.09	661482	14.12
OP94471-MS	337342	4.87	1140252	5.93	632985	7.37	1058388	8.72	891596	12.09	718984	14.12
OP94471-MSD	342377	4.87	1180502	5.93	659979	7.37	1091584	8.71	936473	12.09	741081	14.11
JC21347-2	340543	4.87	1230568	5.92	676462	7.37	1089445	8.71	950761	12.09	676495	14.11
ZZZZZZ	401096	4.87	1427795	5.92	794440	7.37	1288455	8.71	1100653	12.09	789742	14.11
ZZZZZZ	386444	4.87	1391135	5.92	778556	7.37	1277738	8.71	1150496	12.09	805289	14.11
ZZZZZZ	398005	4.87	1427736	5.92	799799	7.37	1296028	8.71	1105761	12.09	821769	14.11
OP94470-MS	336914	4.87	1149836	5.92	643735	7.37	1049490	8.71	888300	12.09	754399	14.11
OP94470-MSD	308112	4.87	1069257	5.93	593055	7.37	968024	8.72	817894	12.10	682723	14.12
ZZZZZZ	301299	4.87	1094198	5.92	594153	7.37	956612	8.71	782504	12.09	621222	14.12
ZZZZZZ	315775	4.87	1142201	5.92	613471	7.37	987328	8.71	776534	12.09	621672	14.12
ZZZZZZ	221439	4.87	637119	5.93	280943*	7.38	452115*	8.74	420795*	12.13	373680	14.16
ZZZZZZ	284280	4.87	1030568	5.93	524575	7.38	758592	8.72	593481	12.10	468073	14.13
ZZZZZZ	287790	4.87	1028711	5.93	560525	7.38	846978	8.72	650581	12.10	483541	14.13

IS 1 = 1,4-Dichlorobenzene-d4
IS 2 = Naphthalene-d8
IS 3 = Acenaphthene-D10
IS 4 = Phenanthrene-d10
IS 5 = Chrysene-d12

Semivolatile Internal Standard Area Summary

Job Number: JC21347
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Check Std:	E2P2614-CC2606	**Injection Date:**	06/08/16
Lab File ID:	2P59932.D	**Injection Time:**	10:09
Instrument ID:	GCMS2P	**Method:**	SW846 8270D

Lab	IS 1		IS 2		IS 3		IS 4		IS 5		IS 6	
Sample ID	**AREA**	**RT**	**AREA**	**RT**	**AREA**	**RT**	**AREA**	**RT**	**AREA**	**RT**	**AREA**	**RT**

IS 6 = Perylene-d12

(a) Upper Limit = +100% of check standard area; Retention time +0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Semivolatile Internal Standard Area Summary

Job Number: JC21347
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Check Std:	E3M2918-CC2887	**Injection Date:**	06/03/16
Lab File ID:	3M61909.D	**Injection Time:**	07:55
Instrument ID:	GCMS3M	**Method:**	SW846 8270D BY SIM

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT
Check Std	514179	10.12	667553	13.11	1044113	17.34	875594	21.96
Upper Limit [a]	1028358	10.62	1335106	13.61	2088226	17.84	1751188	22.46
Lower Limit [b]	257090	9.62	333777	12.61	522057	16.84	437797	21.46

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT
OP94425A-MB1	566434	10.12	747327	13.11	1171554	17.34	983383	21.96
OP94425A-BS12	607603	10.12	794639	13.11	1206092	17.34	1016414	21.96
JC21347-1	620851	10.12	852621	13.11	1295949	17.34	1051072	21.96
JC21347-3	575947	10.12	771299	13.11	1227379	17.34	1017394	21.96
OP94215A-MB1	748212[c]	10.12	1389079[c]	13.11	2285643[c]	17.34	1806338[c]	21.96
OP94255A-MB1	620730	10.12	807200	13.11	1258153	17.34	1060604	21.96
ZZZZZZ	537323	10.12	747236	13.11	1228810	17.34	949862	21.96
ZZZZZZ	791545[c]	10.12	1444139[c]	13.11	2531785[c]	17.36	2009219[c]	21.98
ZZZZZZ	865606[c]	10.12	1699779[c]	13.11	3034787[c]	17.36	2294541[c]	21.98
ZZZZZZ	628205	10.12	874762	13.11	1361584	17.34	1097389	21.98
ZZZZZZ	575625	10.12	825310	13.11	1234683	17.34	1062187	21.98
ZZZZZZ	677120	10.12	1001787	13.11	1550210	17.36	1321168	21.98

IS 1 = 1-Methylnaphthalene-d10
IS 2 = Fluorene-d10
IS 3 = Fluoranthene-d10
IS 4 = Benzo(a)pyrene-d12

(a) Upper Limit = +100% of check standard area; Retention time +0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.
(c) Possibly double spiked.

Semivolatile Internal Standard Area Summary

Job Number: JC21347
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Check Std:	E3M2919-CC2887	**Injection Date:**	06/03/16
Lab File ID:	3M61923.D	**Injection Time:**	15:20
Instrument ID:	GCMS3M	**Method:**	SW846 8270D BY SIM

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT
Check Std	621950	10.12	821873	13.11	1292968	17.34	1012502	21.96
Upper Limit [a]	1243900	10.62	1643746	13.61	2585936	17.84	2025004	22.46
Lower Limit [b]	310975	9.62	410937	12.61	646484	16.84	506251	21.46

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT
OP94245A-MB1	798988	10.12	1301435	13.11	2032264	17.34	1557929	21.96
OP94245A-BS12	800139	10.12	1241742	13.11	2014138	17.34	1520222	21.96
OP94245A-MS	767056	10.12	1167709	13.11	1937443	17.34	1490589	21.96
OP94245A-MSD	824321	10.12	1290806	13.11	2044502	17.34	1601696	21.96
ZZZZZZ	837619	10.12	1311841	13.11	2146331	17.34	1641190	21.96
JC20816-10	562423	10.12	751890	13.11	1161138	17.34	938689	21.96
ZZZZZZ	513419	10.12	649830	13.11	1047093	17.34	875603	21.96
ZZZZZZ	540509	10.12	710600	13.11	1075200	17.34	909556	21.96
ZZZZZZ	569693	10.12	739243	13.11	1154097	17.34	967228	21.96
OP94253A-MB1	608540	10.12	810493	13.11	1292995	17.34	1060314	21.96
OP94253A-BS12	644266	10.12	866865	13.11	1362551	17.34	1110580	21.96
ZZZZZZ	633274	10.12	840576	13.11	1326783	17.34	1087262	21.96
ZZZZZZ	824100	10.14	1092320	13.13	1662334	17.36	1107804	21.96
ZZZZZZ	597400	10.12	797466	13.11	1295830	17.34	1050848	21.96
OP94425A-MB1	622690	10.12	872889	13.11	1377085	17.34	1096162	21.96
OP94425A-BS12	633565	10.12	861635	13.11	1372962	17.34	1080266	21.96
ZZZZZZ	561108	10.12	765082	13.11	1214989	17.34	979516	21.96
JC21116-6	544906	10.12	756205	13.11	1219496	17.34	976620	21.96
ZZZZZZ	566649	10.12	749246	13.11	1193662	17.34	960351	21.96
ZZZZZZ	545091	10.12	745159	13.11	1199411	17.34	956066	21.96
ZZZZZZ	570038	10.12	752340	13.11	1200162	17.34	953623	21.96

IS 1 = 1-Methylnaphthalene-d10
IS 2 = Fluorene-d10
IS 3 = Fluoranthene-d10
IS 4 = Benzo(a)pyrene-d12

(a) Upper Limit = +100% of check standard area; Retention time +0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Semivolatile Internal Standard Area Summary

Job Number: JC21347
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Check Std:	E3M2930-CC2887	**Injection Date:**	06/10/16
Lab File ID:	3M62147.D	**Injection Time:**	20:54
Instrument ID:	GCMS3M	**Method:**	SW846 8270D BY SIM

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT
Check Std	871013	10.16	1068108	13.17	1746157	17.40	1477786	22.04
Upper Limit [a]	1742026	10.66	2136216	13.67	3492314	17.90	2955572	22.54
Lower Limit [b]	435507	9.66	534054	12.67	873079	16.90	738893	21.54

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT
OP94470A-MB1	763347	10.20	938275	13.21	1546647	17.46	1493116	22.11
OP94470A-BS12	672649	10.20	830498	13.21	1289502	17.46	1232049	22.11
OP94470A-MS	610842	10.20	825284	13.21	1277921	17.46	1198693	22.10
OP94470A-MSD	594154	10.20	783167	13.21	1285480	17.45	1199530	22.10
JC21261-2	586663	10.20	842960	13.21	1374179	17.45	1269236	22.10
ZZZZZZ	559002	10.20	767933	13.21	1276152	17.45	1179851	22.10
OP94471A-MB1	605657	10.18	847178	13.21	1380621	17.45	1260453	22.10
OP94471A-BS12	512240	10.18	688718	13.19	1163091	17.45	1072474	22.10
OP94471A-MS	538492	10.18	714733	13.19	1187875	17.45	1112794	22.08
OP94471A-MSD	521157	10.18	684537	13.19	1105473	17.45	1029085	22.08
JC21347-2	502631	10.18	707711	13.19	1122478	17.45	1044712	22.08
OP94419A-MB1	550097	10.18	728814	13.19	1124104	17.45	1091708	22.08
OP94419A-BS12	580691	10.18	755479	13.19	1217487	17.45	1170004	22.08
JC21229-1	593431	10.18	795195	13.19	1187017	17.43	1146283	22.08

IS 1 = 1-Methylnaphthalene-d10
IS 2 = Fluorene-d10
IS 3 = Fluoranthene-d10
IS 4 = Benzo(a)pyrene-d12

(a) Upper Limit = +100% of check standard area; Retention time +0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Semivolatile Internal Standard Area Summary

Job Number: JC21347
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Check Std:	E3M2934-CC2931	**Injection Date:**	06/14/16
Lab File ID:	3M62202.D	**Injection Time:**	12:42
Instrument ID:	GCMS3M	**Method:**	SW846 8270D BY SIM

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT
Check Std	180784	10.69	263462	13.69	467776	17.91	385560	22.49
Upper Limit [a]	361568	11.19	526924	14.19	935552	18.41	771120	22.99
Lower Limit [b]	90392	10.19	131731	13.19	233888	17.41	192780	21.99

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT
OP94425A-MS	177835	10.69	263124	13.69	436247	17.89	336639	22.49
OP94425A-MSD	174532	10.71	252379	13.69	424959	17.91	338868	22.49
ZZZZZZ	176261	10.71	272442	13.69	451066	17.91	363621	22.49
OP94576A-MB1	264681	10.71	390612	13.69	655770	17.91	534845	22.49
ZZZZZZ	213535	10.71	313637	13.69	536519	17.91	435061	22.49
ZZZZZZ	187682	10.71	284174	13.69	476839	17.91	377201	22.49
ZZZZZZ	214475	10.71	322708	13.69	552047	17.91	449643	22.49
ZZZZZZ	196008	10.71	285281	13.69	486618	17.91	396552	22.49
ZZZZZZ	196747	10.71	284418	13.69	471588	17.91	386127	22.49
ZZZZZZ	201393	10.71	302510	13.69	467631	17.91	371267	22.49
ZZZZZZ	197758	10.71	294932	13.69	473093	17.91	379987	22.49

IS 1 = 1-Methylnaphthalene-d10
IS 2 = Fluorene-d10
IS 3 = Fluoranthene-d10
IS 4 = Benzo(a)pyrene-d12

(a) Upper Limit = +100% of check standard area; Retention time +0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Semivolatile Internal Standard Area Summary

Job Number: JC21347
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Check Std:	EF6637-CC6563	**Injection Date:**	06/02/16
Lab File ID:	F157713.D	**Injection Time:**	21:51
Instrument ID:	GCMSF	**Method:**	SW846 8270D

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
Check Std	461583	4.55	1889831	5.48	1103192	6.84	1767205	8.64	1629180	13.82	1502505	16.84
Upper Limit [a]	923166	5.05	3779662	5.98	2206384	7.34	3534410	9.14	3258360	14.32	3005010	17.34
Lower Limit [b]	230792	4.05	944916	4.98	551596	6.34	883603	8.14	814590	13.32	751253	16.34

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
OP94425-MB1	387036	4.55	1626922	5.47	945896	6.84	1508032	8.64	1377583	13.80	1289154	16.83
OP94425-BS1	416164	4.55	1843367	5.47	973984	6.84	1532661	8.64	1413309	13.81	1268554	16.83
OP94425-MS	416617	4.55	1726271	5.47	971393	6.84	1502005	8.64	1387808	13.80	1263194	16.83
OP94425-MSD	420629	4.55	1734144	5.47	941318	6.84	1455026	8.64	1350348	13.81	1265978	16.83
ZZZZZZ	401415	4.56	1658806	5.47	977167	6.84	1503561	8.63	1336308	13.80	1287383	16.83
JC21347-1	382456	4.55	1606357	5.47	930579	6.84	1485142	8.63	1377072	13.80	1276200	16.83
JC21347-3	367403	4.55	1495448	5.47	886623	6.84	1416116	8.63	1288971	13.80	1200487	16.83
JC21116-5	378807	4.55	1551757	5.47	905842	6.84	1403229	8.63	1307390	13.80	1239191	16.83
ZZZZZZ	366458	4.55	1551151	5.47	897633	6.84	1414165	8.63	1294912	13.80	1239064	16.83
ZZZZZZ	372502	4.55	1517389	5.47	873615	6.84	1387794	8.63	1284550	13.80	1243809	16.83
ZZZZZZ	376398	4.55	1566281	5.47	902292	6.84	1417099	8.63	1281777	13.80	1217708	16.83
ZZZZZZ	388527	4.55	1563285	5.47	928534	6.84	1450913	8.63	1332468	13.80	1273631	16.83
ZZZZZZ	382438	4.55	1612027	5.47	914419	6.84	1436622	8.64	1361415	13.81	1297444	16.84
ZZZZZZ	384329	4.55	1615042	5.47	943581	6.84	1486017	8.63	1354115	13.80	1278117	16.83

IS 1 = 1,4-Dichlorobenzene-d4
IS 2 = Naphthalene-d8
IS 3 = Acenaphthene-D10
IS 4 = Phenanthrene-d10
IS 5 = Chrysene-d12
IS 6 = Perylene-d12

(a) Upper Limit = +100% of check standard area; Retention time +0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Semivolatile Surrogate Recovery Summary

Job Number: JC21347
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Method: SW846 8270D **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3	S4	S5	S6
JC21347-1	F157721.D	34	26	77	62	51	54
JC21347-3	F157722.D	37	25	87	76	60	46
OP94425-BS1	F157717.D	38	30	91	74	71	77
OP94425-MB1	F157716.D	36	25	98	79	66	89
OP94425-MS	F157718.D	55	55	81	67	61	70
OP94425-MSD	F157719.D	66	66	104	84	79	84

Surrogate Compounds	Recovery Limits
S1 = 2-Fluorophenol	14-88%
S2 = Phenol-d5	10-110%
S3 = 2,4,6-Tribromophenol	39-149%
S4 = Nitrobenzene-d5	32-128%
S5 = 2-Fluorobiphenyl	35-119%
S6 = Terphenyl-d14	10-126%

Semivolatile Surrogate Recovery Summary

Job Number: JC21347
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Method: SW846 8270D **Matrix:** SO

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3	S4	S5	S6
JC21347-2	2P59954.D	72	76	96	83	91	99
OP94471-BS1	2P59935.D	77	73	85	76	75	90
OP94471-MB1	2P59934.D	65	68	80	74	78	81
OP94471-MS	2P59952.D	68	65	79	70	70	88
OP94471-MSD	2P59953.D	69	67	80	71	70	89

Surrogate Compounds	Recovery Limits
S1 = 2-Fluorophenol	30-106%
S2 = Phenol-d5	30-106%
S3 = 2,4,6-Tribromophenol	24-140%
S4 = Nitrobenzene-d5	26-122%
S5 = 2-Fluorobiphenyl	36-112%
S6 = Terphenyl-d14	36-132%

Semivolatile Surrogate Recovery Summary

Job Number: JC21347
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Method: SW846 8270D BY SIM **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3
JC21347-1	3M61912.D	48	52	56
JC21347-3	3M61913.D	57	63	47
OP94425A-BS12	3M61911.D	53	64	75
OP94425A-BS12	3M61939.D	64	62	69
OP94425A-MB1	3M61910.D	58	69	98
OP94425A-MB1	3M61938.D	71	69	94
OP94425A-MS	3M62203.D	65	79	81
OP94425A-MSD	3M62204.D	51	59	65

Surrogate Compounds	Recovery Limits
S1 = Nitrobenzene-d5	24-125%
S2 = 2-Fluorobiphenyl	19-127%
S3 = Terphenyl-d14	10-119%

Semivolatile Surrogate Recovery Summary

Job Number: JC21347
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Method: SW846 8270D BY SIM **Matrix:** SO

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3
JC21347-2	3M62165.D	82	91	98
OP94471A-BS12	3M62162.D	88	105	109
OP94471A-MB1	3M62161.D	83	99	102
OP94471A-MS	3M62163.D	77	92	102
OP94471A-MSD	3M62164.D	83	100	105

Surrogate Compounds	Recovery Limits
S1 = Nitrobenzene-d5	15-138%
S2 = 2-Fluorobiphenyl	12-148%
S3 = Terphenyl-d14	10-157%

Initial Calibration Summary

Job Number: JC21347
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR
Sample: E2P2606-ICC2606
Lab FileID: 2P59746.D

Response Factor Report MS2P

Method : C:\MSDCHEM\1\METHODS\M2P2606.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Jun 03 09:18:53 2016
Response via : Initial Calibration

Calibration Files
2 =2p59747.D 5 =2p59753.D 25 =2p59751.D 80 =2p59750.D
100 =2p59749.D 50 =2p59746.D 1 =2p59748.D 10 =2p59752.D

Compound	2	5	25	80	100	50	1	10	Avg	%RSD
1) I 1,4-Dichlorobenzene-d	----------ISTD----------									
2) 1,4-Dioxane	0.641	0.648	0.666	0.676	0.744	0.707	0.692	0.645	0.677	5.26
3) Pyridine	1.557	1.592	1.613	1.559	1.694	1.679	1.296	1.577	1.571	7.79
4) N-Nitrosodim	0.820	0.854	0.898	0.918	1.020	0.982	0.774	0.889	0.894	9.02
5) 2-Fluorophen	1.525	1.478	1.485	1.503	1.538	1.544	1.498	1.464	1.504	1.93
6) Indene	2.563	2.419	2.078	1.785	1.667	1.891	2.571	2.331	2.163	16.50
7) Cumene	3.554	3.472	3.380	3.237	3.147	3.403	3.560	3.493	3.406	4.35
8) Phenol-d5	1.900	1.796	1.759	1.754	1.726	1.781	1.753	1.820	1.786	3.04
9) Phenol	1.913	1.931	1.834	1.830	1.754	1.933	1.987	1.913	1.887	3.97
10) Aniline	2.296	2.317	2.147	1.963	1.895	2.021	2.402	2.266	2.163	8.59
11) bis(2-Chloro	1.355	1.299	1.200	1.097	1.064	1.154	1.316	1.308	1.224	9.03
12) 2-Chlorophen	1.623	1.618	1.486	1.294	1.249	1.371	1.686	1.621	1.493	11.31
13) Decane	2.331	2.279	1.987	1.720	1.623	1.813	2.315	2.191	2.032	14.05
14) 1,3-Dichloro	1.840	1.862	1.635	1.482	1.429	1.561	1.949	1.783	1.693	11.36
15) 1,4-Dichloro	1.758	1.726	1.577	1.455	1.381	1.488	1.929	1.698	1.626	11.26
16) Benzyl alcoh	0.910	0.891	0.832	0.766	0.721	0.810	0.887	0.913	0.841	8.49
17) 1,2-Dichloro	1.760	1.641	1.441	1.272	1.219	1.361	1.796	1.598	1.511	14.52
18) Acetophenone	1.890	1.823	1.519	1.321	1.255	1.379	1.983	1.746	1.614	17.41
19) 2-Methylphen	1.322	1.281	1.128	0.995	0.933	1.054	1.319	1.275	1.163	13.41
20) 2,2'-oxybis(	0.479	0.447	0.389	0.352	0.345	0.375	0.480	0.430	0.412	13.16
21) 3&4-Methylph	1.383	1.341	1.179	1.014	0.944	1.059	1.443	1.344	1.213	15.64
22) n-Nitroso-di	0.948	0.906	0.756	0.677	0.657	0.693	0.961	0.867	0.808	15.65
23) Hexachloroet	0.609	0.582	0.523	0.501	0.481	0.501	0.596	0.559	0.544	8.99
24) I Naphthalene-d8	----------ISTD----------									
25) Nitrobenzene	0.421	0.391	0.368	0.345	0.329	0.355	0.419	0.393	0.378	9.00
26) Nitrobenzene	0.394	0.390	0.352	0.316	0.302	0.331	0.408	0.374	0.359	10.95
27) Quinoline	0.797	0.784	0.737	0.721	0.709	0.722	0.835	0.764	0.758	5.82
28) Isophorone	0.708	0.694	0.646	0.621	0.616	0.636	0.709	0.687	0.665	5.88
29) 2-Nitropheno	0.214	0.215	0.212	0.191	0.177	0.203	0.220	0.223	0.207	7.56
30) 2,4-Dimethyl	0.422	0.381	0.358	0.315	0.303	0.333	0.395	0.385	0.362	11.53
31) Benzoic acid	0.219	0.241	0.271	0.287	0.291	0.277	0.225	0.273	0.261	10.75
32) bis(2-Chloro	0.424	0.407	0.378	0.344	0.328	0.350	0.433	0.410	0.384	10.35
33) 2,4-Dichloro	0.360	0.355	0.332	0.301	0.287	0.311	0.367	0.351	0.333	9.01
34) 2,6-Dichloro	0.340	0.334	0.298	0.261	0.248	0.275	0.353	0.325	0.304	13.01
35) 1,3,5-Trichl	0.419	0.402	0.360	0.317	0.294	0.338	0.430	0.394	0.369	13.52
36) 1,2,4-Trichl	0.402	0.386	0.346	0.316	0.300	0.326	0.379	0.367	0.353	10.34
37) 1,2,3-Trichl	0.374	0.361	0.321	0.283	0.271	0.301	0.388	0.335	0.329	13.05
38) Naphthalene	1.198	1.150	1.013	0.900	0.853	0.955	1.234	1.113	1.052	13.52
39) 4-Chloroanil	0.500	0.505	0.443	0.377	0.354	0.398	0.499	0.480	0.444	13.70
40) 2,3-Dichloro	0.458	0.436	0.378	0.322	0.306	0.339	0.467	0.425	0.392	16.22
41) Caprolactam	0.124	0.118	0.118	0.121	0.121	0.119	0.129	0.123	0.122	3.14
42) Hexachlorobu	0.212	0.212	0.182	0.171	0.160	0.178	0.215	0.196	0.191	10.90
43) 4-Chloro-3-m	0.349	0.324	0.310	0.290	0.287	0.304	0.366	0.325	0.319	8.62
44) 2-Methylnaph	0.680	0.656	0.612	0.547	0.520	0.577	0.706	0.655	0.619	10.68
45) 1-Methylnaph	0.687	0.698	0.622	0.556	0.519	0.580	0.736	0.681	0.635	12.19

Initial Calibration Summary

Job Number: JC21347 **Sample:** E2P2606-ICC2606
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 2P59746.D
Project: BMSMC, Building 5 Area, PR

```
46) Dimethylnaph 0.708 0.709 0.630 0.546 0.517 0.582 0.762 0.684 0.642  13.63

47) I   Acenaphthene-d10      ----------------ISTD---------------------
48) Hexachlorocy 0.406 0.396 0.398 0.354 0.322 0.375 0.386 0.405 0.380   7.67
49) 2,4,6-Trichl 0.461 0.440 0.397 0.343 0.322 0.372 0.454 0.425 0.402  12.93
50) 2,4,5-Trichl 0.462 0.464 0.425 0.394 0.373 0.409 0.471 0.462 0.433   8.63
51) 2-Fluorobiph 1.567 1.474 1.311 1.151 1.069 1.216 1.620 1.460 1.358  14.85
52) 2-Chloronaph 1.411 1.313 1.138 0.985 0.930 1.043 1.446 1.265 1.191  16.46
53) Biphenyl     1.789 1.672 1.498 1.297 1.192 1.369 1.909 1.638 1.545  16.14
54) 2-Nitroanili 0.386 0.382 0.367 0.360 0.344 0.362 0.424 0.387 0.377   6.43
55) Dimethylphth 1.459 1.419 1.288 1.207 1.160 1.253 1.553 1.415 1.344  10.19
56) Acenaphthyle 2.215 2.136 1.931 1.728 1.595 1.808 2.268 2.121 1.975  12.48
57) 2,6-Dinitrot 0.309 0.296 0.300 0.284 0.277 0.292 0.298 0.306 0.295   3.68
58) 3-Nitroanili 0.394 0.377 0.369 0.353 0.345 0.360 0.405 0.396 0.375   5.81
59) Acenaphthene 1.283 1.260 1.149 1.005 0.957 1.071 1.371 1.238 1.167  12.50
60) 2,4-Dinitrop 0.089 0.112 0.165 0.173 0.171 0.171       0.154 0.148  22.62
         ----- Quadratic regression -----                Coefficient =  0.9999
              Response Ratio = -0.01351 + 0.17996 *A + -0.00119 *A^2

61) 4-Nitropheno 0.169 0.167 0.167 0.171 0.168 0.175 0.164 0.171 0.169   2.06
62) Dibenzofuran 1.825 1.750 1.547 1.340 1.244 1.447 1.906 1.704 1.595  14.95
63) 2,4-Dinitrot 0.394 0.383 0.394 0.369 0.351 0.381 0.356 0.402 0.379   4.91
64) 2,3,4,6-Tetr 0.408 0.364 0.361 0.349 0.331 0.362 0.356 0.384 0.364   6.36
65) Diethylphtha 1.419 1.345 1.247 1.170 1.131 1.230 1.461 1.382 1.298   9.31
66) Fluorene     1.546 1.437 1.262 1.054 0.993 1.149 1.543 1.381 1.296  16.60
67) 4-Chlorophen 0.705 0.656 0.580 0.505 0.473 0.541 0.705 0.650 0.602  14.97
68) 4-Nitroanili 0.362 0.389 0.373 0.342 0.332 0.351 0.422 0.389 0.370   8.01

69) I   Phenanthrene-d10      ----------------ISTD---------------------
70) 4,6-Dinitro- 0.089 0.113 0.139 0.139 0.136 0.141       0.131 0.127  15.06
71) n-Nitrosodip 0.620 0.579 0.536 0.468 0.449 0.491 0.604 0.584 0.541  12.06
72) 1,2-Diphenyl 0.770 0.777 0.683 0.588 0.559 0.623 0.828 0.735 0.695  14.03
73) 2,4,6-Tribro 0.113 0.109 0.109 0.103 0.101 0.105 0.108 0.113 0.108   4.05
74) 4-Bromopheny 0.249 0.235 0.227 0.215 0.207 0.217 0.242 0.229 0.228   6.33
75) Hexachlorobe 0.278 0.266 0.245 0.225 0.217 0.228 0.279 0.253 0.249   9.75
76) Pentachlorop 0.167 0.166 0.173 0.163 0.157 0.171 0.153 0.177 0.166   4.83
77) Phenanthrene 1.232 1.215 1.084 0.960 0.912 0.997 1.298 1.142 1.105  12.67
78) Anthracene   1.248 1.201 1.100 0.961 0.909 1.004 1.220 1.181 1.103  11.77
79) Carbazole    1.203 1.172 1.074 0.969 0.931 1.006 1.234 1.131 1.090  10.35
80) Di-n-butylph 1.367 1.384 1.371 1.277 1.234 1.342 1.319 1.400 1.337   4.28
81) Fluoranthene 1.362 1.350 1.348 1.276 1.237 1.308 1.311 1.387 1.322   3.73
82) Octadecane   0.628 0.626 0.599 0.512 0.470 0.544 0.656 0.629 0.583  11.40

83) I   Chrysene-d12          ----------------ISTD---------------------
84) Pyrene       1.429 1.424 1.341 1.275 1.229 1.293 1.478 1.404 1.359   6.45
85) Terphenyl-d1 0.843 0.853 0.813 0.817 0.800 0.808 0.898 0.843 0.835   3.82
86) Butylbenzylp 0.576 0.591 0.607 0.636 0.632 0.627 0.583 0.608 0.608   3.76
87) Benzo[a]anth 1.318 1.246 1.179 1.161 1.145 1.155 1.383 1.243 1.229   7.00
88) 3,3'-Dichlor 0.423 0.451 0.446 0.447 0.426 0.436 0.449 0.456 0.442   2.74
89) Chrysene     1.200 1.185 1.077 1.054 1.026 1.050 1.264 1.142 1.125   7.63
90) bis(2-Ethylh 0.695 0.743 0.756 0.740 0.716 0.743 0.716 0.742 0.731   2.76

91) I   Perylene-d12          ----------------ISTD---------------------
92) Di-n-octylph 1.380 1.425 1.582 1.557 1.501 1.583 1.333 1.534 1.487   6.46
93) Benzo[b]fluo 1.435 1.373 1.315 1.241 1.264 1.254 1.423 1.385 1.336   5.85
94) Benzo[k]fluo 1.272 1.298 1.156 1.014 0.890 1.095 1.309 1.240 1.159  13.00
95) Benzo[a]pyre 1.230 1.180 1.168 1.140 1.103 1.152 1.235 1.210 1.177   3.91
96) Indeno[1,2,3 1.094 1.027 1.070 1.091 1.087 1.079 1.049 1.075 1.072   2.12
97) Dibenz(a,h)a 1.085 0.967 0.975 0.984 1.003 0.999 0.963 0.998 0.997   3.88
98) Dibenz[a,h]a 1.095 1.041 1.085 1.031 0.992 1.050 1.091 1.113 1.062   3.82
```

Initial Calibration Summary

Job Number: JC21347 **Sample:** E2P2606-ICC2606
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 2P59746.D
Project: BMSMC, Building 5 Area, PR

```
 99) 7,12-Dimethy 0.643 0.604 0.585 0.540 0.524 0.558 0.618 0.623 0.587   7.24
100) Benzo[g,h,i] 1.148 1.110 1.114 1.127 1.105 1.122 1.203 1.141 1.134   2.80
 ---------------------------------------------------------------------------
 (#) = Out of Range  ###  Number of calibration levels exceeded format  ###

          M2P2606.M         Fri Jun 03 10:51:01 2016   RPT1
```

Initial Calibration Summary

Job Number: JC21347 **Sample:** E2P2607-ICC2607
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 2P59755.D
Project: BMSMC, Building 5 Area, PR

```
                          Response Factor Report  MS2P

  Method       : C:\MSDCHEM\1\METHODS\M2P2607.M (RTE Integrator)
  Title        : Semi Volatile Extractables by GC/MS
  Last Update  : Fri Jun 03 09:18:53 2016
  Response via : Initial Calibration

  Calibration Files
  2   =2p59758.D  5   =2p59760.D  25  =2p59761.D  80  =2p59759.D
  100 =2p59757.D  50  =2p59755.D  1   =2p59756.D  10  =2p59762.D

   Compound          2     5     25    80    100   50    1     10    Avg %RSD
  ---------------------------------------------------------------------------
101) I   1,4-Dichlorobenzene-d ----------------ISTD---------------------
102) Benzaldehyde 1.091 1.098 0.988 0.756       0.946 0.979 0.994 0.979  11.64

103) I   Naphthalene-d8a       ----------------ISTD---------------------
104) Hydroquinone 0.269 0.322 0.342 0.329 0.326 0.340 0.215 0.316 0.307  14.19

105) I   Acenaphthene-d10a     ----------------ISTD---------------------
106) Atrazine     0.184 0.184 0.179 0.167 0.159 0.177 0.175 0.175 0.175   4.84
107) 1,2,4,5-Tetr 0.656 0.675 0.583 0.528 0.488 0.560 0.674 0.588 0.594  11.69

108) I   Chrysene-d12a         ----------------ISTD---------------------
109) Benzidine                0.490 0.361 0.381 0.436       0.376 0.409  13.17

110) I   Phenanthrene-d10a     ----------------ISTD---------------------
111) 1-chloroocta 0.437 0.456 0.446 0.404 0.380 0.417 0.414 0.440 0.424   5.90
112) O-terphenyl  0.603 0.615 0.545 0.494 0.474 0.524 0.593 0.555 0.550   9.30


 ---------------------------------------------------------------------------
 (#) = Out of Range  ###  Number of calibration levels exceeded format  ###

           M2P2606.M         Fri Jun 03 09:51:49 2016   RPT1
```

Initial Calibration Verification

Job Number: JC21347 **Sample:** E2P2607-ICV2606
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 2P59763.D
Project: BMSMC, Building 5 Area, PR

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\2P2607\2p59763.D Vial: 10
Acq On : 2 Jun 2016 6:02 pm Operator: robertl1
Sample : ICV2606-50 Inst : MS2P
Misc : op94078,e2p2607 Multiplr: 1.00
MS Integration Params: lscint.p

Method : C:\MSDCHEM\1\METHODS\M2P2606.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Jun 03 09:18:53 2016
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	144	0.00	4.91
4	t	N-Nitrosodimethylamine	0.894	0.888	0.7	130	0.01	2.56
11	t	bis(2-Chloroethyl)ether	1.224	1.276	-4.2	159	0.00	4.69
14	t	1,3-Dichlorobenzene	1.693	1.574	7.0	145	0.00	4.86
15	t	1,4-Dichlorobenzene	1.626	1.418	12.8	137	0.00	4.92
17	t	1,2-Dichlorobenzene	1.511	1.347	10.9	142	0.00	5.04
20	t	2,2'-oxybis(1-Chloropropa	0.412	0.353	14.3	135	0.00	5.14
22	t	n-Nitroso-di-n-propylamin	0.808	0.735	9.0	152	-0.01	5.24
23	t	Hexachloroethane	0.544	0.465	14.5	133	0.00	5.33
24	I	Naphthalene-d8	1.000	1.000	0.0	131	0.00	5.96
26	t	Nitrobenzene	0.359	0.327	8.9	130	0.00	5.38
28	t	Isophorone	0.665	0.621	6.6	128	-0.01	5.58
32	t	bis(2-Chloroethoxy)methan	0.384	0.374	2.6	140	0.00	5.77
36	t	1,2,4-Trichlorobenzene	0.353	0.326	7.6	132	0.00	5.92
38	t	Naphthalene	1.052	0.938	10.8	129	0.00	5.98
42	t	Hexachlorobutadiene	0.191	0.175	8.4	129	0.00	6.08
47	I	Acenaphthene-d10	1.000	1.000	0.0	128	0.00	7.41
48	t	Hexachlorocyclopentadiene	0.380	0.306	19.5	104	0.00	6.68
52	t	2-Chloronaphthalene	1.191	1.136	4.6	140	0.00	6.95
55	t	Dimethylphthalate	1.344	1.214	9.7	124	0.00	7.19
56	t	Acenaphthylene	1.975	1.659	16.0	118	0.00	7.29
57	t	2,6-Dinitrotoluene	0.295	0.266	9.8	117	0.00	7.24
59	t	Acenaphthene	1.167	1.004	14.0	120	0.00	7.44
63	t	2,4-Dinitrotoluene	0.379	0.330	12.9	111	0.00	7.56
65	t	Diethylphthalate	1.298	1.152	11.2	120	0.00	7.77
66	t	Fluorene	1.296	1.031	20.4	115	0.00	7.87
67	t	4-Chlorophenyl-phenylethe	0.602	0.477	20.8	113	0.00	7.87
69	I	Phenanthrene-d10	1.000	1.000	0.0	125	0.00	8.76
71	t	n-Nitrosodiphenylamine	0.541	0.465	14.0	119	0.00	7.98
72	t	1,2-Diphenylhydrazine	0.695	0.571	17.8	115	0.00	8.01
74	t	4-Bromophenyl-phenylether	0.228	0.203	11.0	117	0.00	8.31
75	t	Hexachlorobenzene	0.249	0.203	18.5	112	0.00	8.37
77	t	Phenanthrene	1.105	0.941	14.8	118	0.00	8.78
78	t	Anthracene	1.103	0.886	19.7	111	0.00	8.83
80	t	Di-n-butylphthalate	1.337	1.203	10.0	112	0.00	9.41
81	t	Fluoranthene	1.322	1.152	12.9	111	0.00	10.15
83	I	Chrysene-d12	1.000	1.000	0.0	105	0.00	12.13
84	t	Pyrene	1.359	1.322	2.7	107	0.00	10.44

Initial Calibration Verification

Job Number: JC21347 **Sample:** E2P2607-ICV2606
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 2P59763.D
Project: BMSMC, Building 5 Area, PR

86	t	Butylbenzylphthalate	0.608	0.637	-4.8	106	0.00	11.38
87	t	Benzo[a]anthracene	1.229	1.111	9.6	101	0.00	12.11
88	t	3,3'-Dichlorobenzidine	0.442	0.574	-29.9	138	0.00	12.12
89	t	Chrysene	1.125	1.024	9.0	102	0.00	12.17
90	t	bis(2-Ethylhexyl)phthalat	0.731	0.748	-2.3	105	0.00	12.27
91	I	Perylene-d12	1.000	1.000	0.0	105	0.00	14.14
92	t	Di-n-octylphthalate	1.487	1.529	-2.8	102	0.00	13.22
93	t	Benzo[b]fluoranthene	1.336	1.190	10.9	100	0.00	13.63
94	t	Benzo[k]fluoranthene	1.159	1.129	2.6	108	0.00	13.68
95	t	Benzo[a]pyrene	1.177	1.075	8.7	98	0.00	14.06
96	t	Indeno[1,2,3-cd]pyrene	1.072	1.074	-0.2	105	0.00	15.68
98	t	Dibenz[a,h]anthracene	1.062	1.018	4.1	102	0.00	15.73
100	t	Benzo[g,h,i]perylene	1.134	1.069	5.7	100	0.00	16.12

(#) = Out of Range SPCC's out = 0 CCC's out = 0
2p59755a.D M2P2606.M Fri Jun 03 15:04:07 2016 RPT1

6.7.3

6

Initial Calibration Verification

Job Number: JC21347
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR
Sample: E2P2607-ICV2607
Lab FileID: 2P59763A.D

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\2P2607\2p59763a.D Vial: 10
Acq On : 2 Jun 2016 6:02 pm Operator: robertl1
Sample : ICV2607-50 Inst : MS2P
Misc : op94078,e2p2607 Multiplr: 1.00
MS Integration Params: lscint.p

Method : C:\MSDCHEM\1\METHODS\M2P2606.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Jun 03 09:18:53 2016
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
105 I	Acenaphthene-d10a	1.000	1.000	0.0	127	0.00	7.41
107	1,2,4,5-Tetrachlorobenzen	0.594	0.602	-1.3	136	0.00	6.69
108 I	Chrysene-d12a	1.000	1.000	0.0	114	0.00	12.13
109	Benzidine	0.409	0.425	-3.9	120	0.00	10.34

(#) = Out of Range SPCC's out = 0 CCC's out = 0
2p59755a.D M2P2606.M Fri Jun 03 15:04:09 2016 RPT1

Initial Calibration Verification

Job Number: JC21347 **Sample:** E2P2607-ICV2607
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 2P59764A.D
Project: BMSMC, Building 5 Area, PR

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\DATA\2P2607\2p59764a.D          Vial: 11
Acq On    :  2 Jun 2016   6:24 pm                    Operator: robertl1
Sample    : ICV2607-50                               Inst    : MS2P
Misc      : op94078,e2p2607                          Multiplr: 1.00
MS Integration Params: lscint.p

Method       : C:\MSDCHEM\1\METHODS\M2P2606.M (RTE Integrator)
Title        : Semi Volatile Extractables by GC/MS
Last Update  : Fri Jun 03 09:18:53 2016
Response via : Multiple Level Calibration

Min. RRF     :   0.050  Min. Rel. Area :  50%  Max. R.T. Dev  0.50min
Max. RRF Dev :  30%     Max. Rel. Area : 200%
```

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
101 I	1,4-Dichlorobenzene-d4a	1.000	1.000	0.0	119	0.00	4.91
102	Benzaldehyde	0.979	0.976	0.3	123	0.00	4.54
105 I	Acenaphthene-d10a	1.000	1.000	0.0	115	0.00	7.41
106	Atrazine	0.175	0.167	4.6	108	0.00	8.47

(#) = Out of Range SPCC's out = 0 CCC's out = 0
2p59755a.D M2P2606.M Fri Jun 03 15:12:17 2016 RPT1

Initial Calibration Verification

Job Number: JC21347 **Sample:** E2P2607-ICV2606
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 2P59764.D
Project: BMSMC, Building 5 Area, PR

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\2P2607\2p59764.D Vial: 11
Acq On : 2 Jun 2016 6:24 pm Operator: robertl1
Sample : ICV2606-50 Inst : MS2P
Misc : op94078,e2p2607 Multiplr: 1.00
MS Integration Params: lscint.p

Method : C:\MSDCHEM\1\METHODS\M2P2606.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Jun 03 09:18:53 2016
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	120	0.00	4.91
2	t	1,4-Dioxane	0.677	0.561	17.1	96	0.00	2.26
6	t	Indene	2.163	1.987	8.1	127	0.00	5.12
7	t	Cumene	3.406	2.851	16.3	101	0.00	4.24
13	t	Decane	2.032	1.731	14.8	115	0.00	4.78
18	t	Acetophenone	1.614	1.397	13.4	122	0.00	5.24
24	I	Naphthalene-d8	1.000	1.000	0.0	126	0.00	5.96
27	t	Quinoline	0.758	0.591	22.0	103	-0.01	6.25
40	t	2,3-Dichloroaniline	0.392	0.264	32.7#	98	0.00	6.78
41	t	Caprolactam	0.122	0.089	27.0	94	-0.04	6.30
45	t	1-Methylnaphthalene	0.635	0.481	24.3	104	0.00	6.63
46	t	Dimethylnaphthalene	0.642	0.480	25.2	104	0.00	7.07
47	I	Acenaphthene-d10	1.000	1.000	0.0	116	0.00	7.41
53	t	Biphenyl	1.545	1.245	19.4	106	0.00	6.93
69	I	Phenanthrene-d10	1.000	1.000	0.0	106	0.00	8.75
82	t	Octadecane	0.583	0.511	12.3	100	0.00	8.65
91	I	Perylene-d12	1.000	1.000	0.0	100	0.00	14.14
99	t	7,12-Dimethylbenz(a)anthr	0.587	0.412	29.8	74	-0.02	13.63

(#) = Out of Range SPCC's out = 0 CCC's out = 0
2p59755a.D M2P2606.M Fri Jun 03 15:12:15 2016 RPT1

Initial Calibration Verification

Job Number: JC21347 **Sample:** E2P2607-ICV2606
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 2P59765.D
Project: BMSMC, Building 5 Area, PR

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\2P2607\2p59765.D Vial: 12
Acq On : 2 Jun 2016 6:46 pm Operator: robertl1
Sample : ICV2606-50 Inst : MS2P
Misc : op94078,e2p2607 Multiplr: 1.00
MS Integration Params: lscint.p

Method : C:\MSDCHEM\1\METHODS\M2P2606.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Jun 03 09:18:53 2016
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	166	0.00	4.91
9	t	Phenol	1.887	1.666	11.7	143	0.00	4.61
12	t	2-Chlorophenol	1.493	1.364	8.6	165	0.00	4.73
19	t	2-Methylphenol	1.163	1.097	5.7	173	0.00	5.11
21	t	3&4-Methylphenol	1.213	1.125	7.3	176	0.00	5.24
24	I	Naphthalene-d8	1.000	1.000	0.0	151	0.00	5.96
29	t	2-Nitrophenol	0.207	0.216	-4.3	160	0.00	5.65
30	t	2,4-Dimethylphenol	0.362	0.339	6.4	153	0.00	5.68
31	t	Benzoic acid	0.261	0.273	-4.6	148	0.00	5.79
33	t	2,4-Dichlorophenol	0.333	0.296	11.1	144	0.00	5.84
34	t	2,6-Dichlorophenol	0.304	0.284	6.6	156	0.00	6.03
43	t	4-Chloro-3-methylphenol	0.319	0.286	10.3	142	0.00	6.42
47	I	Acenaphthene-d10	1.000	1.000	0.0	161	0.00	7.41
49	t	2,4,6-Trichlorophenol	0.402	0.371	7.7	161	0.00	6.78
50	t	2,4,5-Trichlorophenol	0.433	0.355	18.0	140	-0.01	6.80
		----------	True	Calc.	% Drift	----------		
60	t	2,4-Dinitrophenol	50.000	55.598	-11.1	142	0.00	7.46
		----------	AvgRF	CCRF	% Dev	----------		
61	t	4-Nitrophenol	0.169	0.153	9.5	140	0.00	7.51
64		2,3,4,6-Tetrachlorophenol	0.364	0.302	17.0	134	0.00	7.68
69	I	Phenanthrene-d10	1.000	1.000	0.0	148	0.00	8.76
70	t	4,6-Dinitro-2-methylpheno	0.127	0.136	-7.1	143	-0.01	7.91
76	t	Pentachlorophenol	0.166	0.162	2.4	140	0.00	8.55

(#) = Out of Range SPCC's out = 0 CCC's out = 0
2p59755a.D M2P2606.M Fri Jun 03 15:47:05 2016 RPT1

Initial Calibration Verification

Job Number: JC21347
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR
Sample: E2P2607-ICV2606
Lab FileID: 2P59766.D

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\DATA\2P2607\2p59766.D          Vial: 13
Acq On    :  2 Jun 2016   7:08 pm                   Operator: robertl1
Sample    : ICV2606-50                              Inst    : MS2P
Misc      : op94078,e2p2607                         Multiplr: 1.00
MS Integration Params: lscint.p

Method       : C:\MSDCHEM\1\METHODS\M2P2606.M (RTE Integrator)
Title        : Semi Volatile Extractables by GC/MS
Last Update  : Fri Jun 03 09:18:53 2016
Response via : Multiple Level Calibration

Min. RRF     :   0.050  Min. Rel. Area :  50%  Max. R.T. Dev  0.50min
Max. RRF Dev :  30%     Max. Rel. Area : 200%
```

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	116	0.00	4.91
3	t	Pyridine	1.571	1.448	7.8	100	0.11	2.69
10		Aniline	2.163	1.998	7.6	114	0.00	4.64
16	t	Benzyl alcohol	0.841	0.839	0.2	120	0.00	5.03
24	I	Naphthalene-d8	1.000	1.000	0.0	122	0.00	5.96
39	t	4-Chloroaniline	0.444	0.410	7.7	126	0.00	6.02
44	t	2-Methylnaphthalene	0.619	0.508	17.9	108	0.00	6.55
47	I	Acenaphthene-d10	1.000	1.000	0.0	113	0.00	7.41
54	t	2-Nitroaniline	0.377	0.351	6.9	109	0.00	7.03
58	t	3-Nitroaniline	0.375	0.350	6.7	109	0.00	7.37
62	t	Dibenzofuran	1.595	1.487	6.8	116	0.00	7.58
68	t	4-Nitroaniline	0.370	0.326	11.9	105	-0.01	7.88
69	I	Phenanthrene-d10	1.000	1.000	0.0	111	0.00	8.75
79	t	Carbazole	1.090	0.956	12.3	106	0.00	9.00

```
(#) = Out of Range              SPCC's out = 0  CCC's out = 0
 2p59755a.D M2P2606.M        Fri Jun 03 09:19:26 2016   RPT1
```

Initial Calibration Verification

Job Number: JC21347 **Sample:** E2P2607-ICV2606
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 2P59767.D
Project: BMSMC, Building 5 Area, PR

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\2P2607\2p59767.D Vial: 14
Acq On : 2 Jun 2016 7:30 pm Operator: robertl1
Sample : ICV2606-50 Inst : MS2P
Misc : op94078,e2p2607 Multiplr: 1.00
MS Integration Params: lscint.p

Method : C:\MSDCHEM\1\METHODS\M2P2606.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Jun 03 09:18:53 2016
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	115	0.00	4.91
5	S	2-Fluorophenol	1.504	1.377	8.4	103	0.00	3.79
8	S	Phenol-d5	1.786	1.595	10.7	103	0.00	4.60
24	I	Naphthalene-d8	1.000	1.000	0.0	118	0.00	5.96
25	S	Nitrobenzene-d5	0.378	0.357	5.6	118	0.00	5.37
47	I	Acenaphthene-d10	1.000	1.000	0.0	110	0.00	7.41
51	S	2-Fluorobiphenyl	1.358	1.358	0.0	123	0.00	6.85
69	I	Phenanthrene-d10	1.000	1.000	0.0	101	0.00	8.75
73	S	2,4,6-Tribromophenol	0.108	0.106	1.9	102	0.00	8.08
83	I	Chrysene-d12	1.000	1.000	0.0	95	-0.01	12.12
85	S	Terphenyl-d14	0.835	0.800	4.2	94	0.00	10.67

(#) = Out of Range SPCC's out = 0 CCC's out = 0
2p59755a.D M2P2606.M Fri Jun 03 09:19:28 2016 RPT1

Initial Calibration Verification

Job Number: JC21347
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR
Sample: E2P2607-ICV2607
Lab FileID: 2P59768.D

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\DATA\2P2607\2p59768.D          Vial: 15
Acq On    :  2 Jun 2016   7:52 pm                   Operator: robertl1
Sample    : ICV2607-50                              Inst    : MS2P
Misc      : op94078,e2p2607                         Multiplr: 1.00
MS Integration Params: lscint.p

Method       : C:\MSDCHEM\1\METHODS\M2P2606.M (RTE Integrator)
Title        : Semi Volatile Extractables by GC/MS
Last Update  : Fri Jun 03 09:18:53 2016
Response via : Multiple Level Calibration

Min. RRF     :   0.050  Min. Rel. Area :  50%  Max. R.T. Dev  0.50min
Max. RRF Dev :  30%     Max. Rel. Area : 200%
```

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
103 I	Naphthalene-d8a	1.000	1.000	0.0	140	0.00	5.96
104	Hydroquinone	0.307	0.348	-13.4	143	0.01	6.30

(#) = Out of Range SPCC's out = 0 CCC's out = 0
2p59755a.D M2P2606.M Fri Jun 03 09:19:30 2016 RPT1

Continuing Calibration Summary

Job Number: JC21347 **Sample:** E2P2614-CC2606
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 2P59932.D
Project: BMSMC, Building 5 Area, PR

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\2P2614\2p59932.D Vial: 2
Acq On : 8 Jun 2016 10:09 am Operator: robertl1
Sample : CC2606-25 Inst : MS2P
Misc : op94078,e2p2614 Multiplr: 1.00
MS Integration Params: lscint.p

Method : C:\MSDCHEM\1\METHODS\M2P2606.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Jun 03 09:18:53 2016
Response via : Multiple Level Calibration

Min. RRF : 0.050 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	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	76	-0.04	4.86
2	t	1,4-Dioxane	0.677	0.660	2.5	76	-0.07	2.18
3	t	Pyridine	1.571	1.561	0.6	74	-0.06	2.52
4	t	N-Nitrosodimethylamine	0.894	0.899	-0.6	76	-0.06	2.48
5	S	2-Fluorophenol	1.504	1.494	0.7	77	-0.02	3.77
6	t	Indene	2.163	2.183	-0.9	80	-0.05	5.07
7	t	Cumene	3.406	3.462	-1.6	78	-0.05	4.18
8	S	Phenol-d5	1.786	1.706	4.5	74	-0.02	4.58
9	t	Phenol	1.887	1.895	-0.4	79	-0.02	4.59
10		Aniline	2.163	1.980	8.5	70	-0.04	4.59
11	t	bis(2-Chloroethyl)ether	1.224	1.183	3.3	75	-0.05	4.64
12	t	2-Chlorophenol	1.493	1.493	0.0	77	-0.04	4.69
13	t	Decane	2.032	2.056	-1.2	79	-0.05	4.72
14	t	1,3-Dichlorobenzene	1.693	1.662	1.8	78	-0.05	4.81
15	t	1,4-Dichlorobenzene	1.626	1.606	1.2	78	-0.05	4.87
16	t	Benzyl alcohol	0.841	0.834	0.8	77	-0.04	4.99
17	t	1,2-Dichlorobenzene	1.511	1.476	2.3	78	-0.04	5.00
18	t	Acetophenone	1.614	1.619	-0.3	81	-0.05	5.20
19	t	2-Methylphenol	1.163	1.121	3.6	76	-0.03	5.09
20	t	2,2'-oxybis(1-Chloropropa	0.412	0.389	5.6	76	-0.05	5.09
21	t	3&4-Methylphenol	1.213	1.219	-0.5	79	-0.03	5.22
22	t	n-Nitroso-di-n-propylamin	0.808	0.783	3.1	79	-0.05	5.20
23	t	Hexachloroethane	0.544	0.532	2.2	78	-0.05	5.28
24	I	Naphthalene-d8	1.000	1.000	0.0	74	-0.05	5.92
25	S	Nitrobenzene-d5	0.378	0.381	-0.8	77	-0.05	5.32
26	t	Nitrobenzene	0.359	0.362	-0.8	76	-0.05	5.34
27	t	Quinoline	0.758	0.749	1.2	75	-0.05	6.22
28	t	Isophorone	0.665	0.655	1.5	75	-0.05	5.54
29	t	2-Nitrophenol	0.207	0.224	-8.2	79	-0.04	5.61
30	t	2,4-Dimethylphenol	0.362	0.354	2.2	73	-0.04	5.65
31	t	Benzoic acid	0.261	0.236	9.6	64	-0.05	5.74
32	t	bis(2-Chloroethoxy)methan	0.384	0.386	-0.5	76	-0.05	5.72
33	t	2,4-Dichlorophenol	0.333	0.338	-1.5	76	-0.04	5.81
34	t	2,6-Dichlorophenol	0.304	0.319	-4.9	80	-0.04	5.99
35		1,3,5-Trichlorobenzene	0.369	0.376	-1.9	78	-0.04	5.61
36	t	1,2,4-Trichlorobenzene	0.353	0.362	-2.5	78	-0.05	5.87
37		1,2,3-Trichlorobenzene	0.329	0.337	-2.4	78	-0.04	6.06
38	t	Naphthalene	1.052	1.068	-1.5	78	-0.04	5.94
39	t	4-Chloroaniline	0.444	0.449	-1.1	75	-0.04	5.99
40	t	2,3-Dichloroaniline	0.392	0.398	-1.5	78	-0.04	6.74
41	t	Caprolactam	0.122	0.120	1.6	76	-0.06	6.27

Continuing Calibration Summary

Job Number: JC21347 **Sample:** E2P2614-CC2606
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 2P59932.D
Project: BMSMC, Building 5 Area, PR

42	t	Hexachlorobutadiene	0.191	0.197	-3.1	80	-0.05	6.03
43	t	4-Chloro-3-methylphenol	0.319	0.327	-2.5	78	-0.03	6.40
44	t	2-Methylnaphthalene	0.619	0.625	-1.0	76	-0.05	6.50
45	t	1-Methylnaphthalene	0.635	0.649	-2.2	78	-0.04	6.59
46	t	Dimethylnaphthalene	0.642	0.655	-2.0	77	-0.04	7.02
47	I	Acenaphthene-d10	1.000	1.000	0.0	75	-0.04	7.37
48	t	Hexachlorocyclopentadiene	0.380	0.337	11.3	64	-0.05	6.63
49	t	2,4,6-Trichlorophenol	0.402	0.418	-4.0	79	-0.04	6.75
50	t	2,4,5-Trichlorophenol	0.433	0.446	-3.0	79	-0.03	6.78
51	S	2-Fluorobiphenyl	1.358	1.356	0.1	78	-0.04	6.81
52	t	2-Chloronaphthalene	1.191	1.185	0.5	79	-0.04	6.91
53	t	Biphenyl	1.545	1.533	0.8	77	-0.05	6.89
54	t	2-Nitroaniline	0.377	0.390	-3.4	80	-0.04	7.00
55	t	Dimethylphthalate	1.344	1.320	1.8	77	-0.05	7.14
56	t	Acenaphthylene	1.975	1.994	-1.0	78	-0.05	7.25
57	t	2,6-Dinitrotoluene	0.295	0.305	-3.4	77	-0.04	7.19
58	t	3-Nitroaniline	0.375	0.383	-2.1	78	-0.04	7.33
59	t	Acenaphthene	1.167	1.162	0.4	76	-0.04	7.39
		----------	True	Calc.	% Drift	----------		
60	t	2,4-Dinitrophenol	50.000	47.624	4.8	73	-0.04	7.42
		----------	AvgRF	CCRF	% Dev	----------		
61	t	4-Nitrophenol	0.169	0.172	-1.8	78	-0.01	7.49
62	t	Dibenzofuran	1.595	1.598	-0.2	78	-0.04	7.54
63	t	2,4-Dinitrotoluene	0.379	0.396	-4.5	76	-0.04	7.53
64		2,3,4,6-Tetrachlorophenol	0.364	0.361	0.8	75	-0.04	7.64
65	t	Diethylphthalate	1.298	1.323	-1.9	80	-0.05	7.73
66	t	Fluorene	1.296	1.310	-1.1	78	-0.05	7.83
67	t	4-Chlorophenyl-phenylethe	0.602	0.605	-0.5	79	-0.04	7.83
68	t	4-Nitroaniline	0.370	0.386	-4.3	78	-0.05	7.85
69	I	Phenanthrene-d10	1.000	1.000	0.0	78	-0.05	8.71
70	t	4,6-Dinitro-2-methylpheno	0.127	0.138	-8.7	77	-0.04	7.87
71	t	n-Nitrosodiphenylamine	0.541	0.538	0.6	78	-0.05	7.93
72	t	1,2-Diphenylhydrazine	0.695	0.671	3.5	77	-0.05	7.96
73	S	2,4,6-Tribromophenol	0.108	0.109	-0.9	78	-0.04	8.04
74	t	4-Bromophenyl-phenylether	0.228	0.224	1.8	77	-0.05	8.26
75	t	Hexachlorobenzene	0.249	0.242	2.8	77	-0.05	8.32
76	t	Pentachlorophenol	0.166	0.148	10.8	67	-0.04	8.52
77	t	Phenanthrene	1.105	1.099	0.5	79	-0.05	8.73
78	t	Anthracene	1.103	1.119	-1.5	79	-0.05	8.78
79	t	Carbazole	1.090	1.071	1.7	78	-0.04	8.96
80	t	Di-n-butylphthalate	1.337	1.360	-1.7	77	-0.06	9.35
81	t	Fluoranthene	1.322	1.365	-3.3	79	-0.05	10.09
82	t	Octadecane	0.583	0.631	-8.2	82	-0.06	8.59
83	I	Chrysene-d12	1.000	1.000	0.0	72	-0.05	12.08
84	t	Pyrene	1.359	1.436	-5.7	77	-0.05	10.38
85	S	Terphenyl-d14	0.835	0.873	-4.6	78	-0.05	10.61
86	t	Butylbenzylphthalate	0.608	0.645	-6.1	77	-0.06	11.32
87	t	Benzo[a]anthracene	1.229	1.205	2.0	74	-0.05	12.06
88	t	3,3'-Dichlorobenzidine	0.442	0.458	-3.6	74	-0.05	12.06
89	t	Chrysene	1.125	1.122	0.3	75	-0.06	12.11
90	t	bis(2-Ethylhexyl)phthalat	0.731	0.792	-8.3	76	-0.06	12.20
91	I	Perylene-d12	1.000	1.000	0.0	61	-0.05	14.09
92	t	Di-n-octylphthalate	1.487	1.777	-19.5	68	-0.06	13.15
93	t	Benzo[b]fluoranthene	1.336	1.344	-0.6	62	-0.05	13.58

Continuing Calibration Summary

Job Number: JC21347 **Sample:** E2P2614-CC2606
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 2P59932.D
Project: BMSMC, Building 5 Area, PR

94	t	Benzo[k]fluoranthene	1.159	1.256	-8.4	66	-0.06	13.62
95	t	Benzo[a]pyrene	1.177	1.180	-0.3	61	-0.05	14.01
96	t	Indeno[1,2,3-cd]pyrene	1.072	1.029	4.0	58	-0.07	15.61
97	t	Dibenz(a,h)acridine	0.997	0.912	8.5	57	-0.06	15.27
98	t	Dibenz[a,h]anthracene	1.062	1.034	2.6	58	-0.07	15.66
99	t	7,12-Dimethylbenz(a)anthr	0.587	0.596	-1.5	62	-0.06	13.58
100	t	Benzo[g,h,i]perylene	1.134	1.055	7.0	57	-0.08	16.05

(#) = Out of Range SPCC's out = 0 CCC's out = 0
2p59761a.D M2P2606.M Thu Jun 09 14:10:52 2016 RPT1

Continuing Calibration Summary

Job Number: JC21347 **Sample:** E2P2614-CC2607
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 2P59933.D
Project: BMSMC, Building 5 Area, PR

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\DATA\2P2614\2p59933.D          Vial: 3
Acq On    :  8 Jun 2016  10:35 am                   Operator: robertl1
Sample    : CC2607-25                               Inst    : MS2P
Misc      : op94078,e2p2614                         Multiplr: 1.00
MS Integration Params: lscint.p

Method       : C:\MSDCHEM\1\METHODS\M2P2606.M (RTE Integrator)
Title        : Semi Volatile Extractables by GC/MS
Last Update  : Fri Jun 03 09:18:53 2016
Response via : Multiple Level Calibration

Min. RRF     :   0.050  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.
101	I	1,4-Dichlorobenzene-d4a	1.000	1.000	0.0	83	-0.04	4.86
102		Benzaldehyde	0.979	0.959	2.0	81	-0.04	4.49
103	I	Naphthalene-d8a	1.000	1.000	0.0	83	-0.04	5.92
104		Hydroquinone	0.307	0.329	-7.2	80	-0.02	6.27
105	I	Acenaphthene-d10a	1.000	1.000	0.0	86	-0.04	7.37
106		Atrazine	0.175	0.175	0.0	84	-0.04	8.43
107		1,2,4,5-Tetrachlorobenzen	0.594	0.566	4.7	83	-0.04	6.64
108	I	Chrysene-d12a	1.000	1.000	0.0	80	-0.05	12.07
109		Benzidine	0.409	0.622	-52.1#	102	-0.05	10.29

(#) = Out of Range SPCC's out = 0 CCC's out = 0
2p59761a.D M2P2606.M Thu Jun 09 14:10:54 2016 RPT1

Initial Calibration Summary

Job Number: JC21347 **Sample:** E3M2887-ICC2887
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 3M61387A.D
Project: BMSMC, Building 5 Area, PR

```
                    Response Factor Report  MS3M

Method       : C:\MSDCHEM\1\METHODS\M3M2887SIM.M (RTE Integrator)
Title        : Semi Volatile Extractables by GC/MS
Last Update  : Wed May 18 08:07:34 2016
Response via : Initial Calibration

Calibration Files
2.5 =3m61395.D   1.0 =3m61387a.D  0.5 =3m61388a.D  0.2 =3m61389b.D
0.1 =3m61390a.D  0.05=3m61391a.D  0.02=3m61392b.D  0.01=3m61393.D
5   =3m61394.D       =                =                =

Compound
            2.5   1.0   0.5   0.2   0.1   0.05  0.02  0.01  5            Avg    %RSD
-----------------------------------------------------------------------------

1) I   1-Methylnaphthalene-d ----------------ISTD---------------------
2)  1,4-dioxane
          0.205 0.217 0.222 0.230 0.235 0.293             0.188        0.227   14.56
3)  2-Fluorophenol
          0.493 0.535 0.540 0.507 0.506 0.510             0.490        0.512    3.78
4)  Phenol-d5
          0.796 0.863 0.882 0.827 0.805 0.810             0.782        0.824    4.42
5)  Phenol
          0.849 0.911 0.919 0.853 0.829 0.823 0.897       0.821        0.863    4.70
6)  bis(2-Chloroethyl)ether
          0.603 0.646 0.641 0.595 0.592 0.569 0.786 0.501 0.630        0.618   12.42
7)  Nitrobenzene-d5
          0.786 0.742 0.714 0.679 0.658 0.643             0.643        0.695    7.84
8)  Nitrobenzene
          0.762 0.824 0.806 0.712 0.723 0.653 0.675 0.636 0.663        0.717    9.47
9)  Naphthalene
          2.218 2.305 2.341 2.229 2.177 2.224 2.459 2.159 2.209        2.258    4.21
10)  Hexachlorobutadiene
          0.337 0.364 0.365 0.339 0.352 0.344 0.385 0.339 0.345        0.352    4.58
11)  2-Methylnaphthalene
          1.121 1.180 1.182 1.082 1.105 1.112 1.325 1.372 1.151        1.181    8.59
12)  1-Methylnaphthalene
          1.211 1.338 1.328 1.261 1.257 1.272 1.411 1.806 1.277        1.351   13.34
13)  Hexachlorocyclopentadiene
          0.239 0.196 0.146 0.061 0.029 0.019             0.298        0.141   77.28
           ---- Quadratic regression ----  Coefficient =  0.9999
             Response Ratio = -0.00933 + 0.18976 *A + 0.04493 *A^2


14) I   Fluorene-d10          ----------------ISTD---------------------
15)  2-Fluorobiphenyl
          0.866 0.923 1.007 1.023 0.998 1.002 1.156 0.939              0.989    8.66
16)  Acenaphthylene
          1.290 1.351 1.397 1.265 1.245 1.241 1.339 1.148 1.275        1.283    5.67
17)  Acenaphthene
          0.819 0.870 0.893 0.842 0.844 0.832 0.941 0.804 0.788        0.848    5.57
18)  4,6-dinitro-2-methylphenol
          0.131 0.096 0.062 0.022 0.010                   0.133        0.076   70.44
           ---- Quadratic regression ----  Coefficient =  0.9981
             Response Ratio = -0.03220 + 0.13569 *A + 0.00039 *A^2

19)  Fluorene
          0.994 1.064 1.107 1.037 1.029 1.000 1.158 0.949 0.982        1.036    6.34
20)  2,4,6-Tribromophenol
```

Initial Calibration Summary

Job Number: JC21347 **Sample:** E3M2887-ICC2887
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 3M61387A.D
Project: BMSMC, Building 5 Area, PR

```
          0.101 0.104 0.105 0.091 0.083                   0.100        0.097    9.06

21) I   Fluoranthene-d10      ----------------ISTD---------------------
22)  Hexachlorobenzene
          0.179 0.173 0.175 0.175 0.169 0.162 0.205 0.173 0.182        0.177    6.74
23)  Pentachlorophenol
          0.086 0.070 0.059 0.032 0.025 0.020             0.098        0.056   55.46
           ---- Quadratic regression ----  Coefficient =  0.9998
             Response Ratio = -0.00819 + 0.07481 *A + 0.00397 *A^2

24)  Phenanthrene
          0.947 0.926 0.938 0.925 0.874 0.861 1.077 0.879 0.969        0.933    7.00
25)  Anthracene
          0.936 0.909 0.887 0.815 0.776 0.748 0.869 0.730 0.970        0.849   10.08
26)  Fluoranthene
          1.073 1.069 1.078 1.090 1.091 1.101 1.502       1.082        1.136   13.05
27)  Pyrene
          1.061 1.052 1.046 0.978 0.963 0.922 1.130 0.927 1.106        1.021    7.46
28)  Terphenyl-d14
          0.568 0.555 0.586 0.607 0.585 0.584             0.426        0.558   10.86
29)  Benzo[a]anthracene
          0.965 0.925 0.947 0.830 0.826 0.788 1.011 0.846 1.002        0.904    9.20
30)  Chrysene
          0.965 0.954 0.973 0.886 0.867 0.870             1.003        0.931    5.94

31) I   Benzo(a)pyrene-d12    ----------------ISTD---------------------
32)  Benzo[b]fluoranthene
          1.269 1.216 1.266 1.151 1.131 1.109 1.510       1.262        1.239   10.22
33)  Benzo[k]fluoranthene
          1.199 1.139 1.189 1.036 1.011 0.983 0.956 1.032 1.241        1.087    9.69
34)  Benzo[a]pyrene
          1.163 1.115 1.178 1.069 1.053 1.042             1.166        1.112    5.23
35)  Indeno[1,2,3-cd]pyrene
          1.354 1.323 1.376 1.305 1.279 1.209 1.488 1.117 1.389        1.316    8.18
36)  Dibenz[a,h]anthracene
          1.047 1.084 1.050 1.060 1.037 1.013 1.119 0.902 1.070        1.042    5.82
37)  Benzo[g,h,i]perylene
          1.147 1.104 1.167 1.070 1.071 1.092 1.288 1.048 1.166        1.128    6.55
-------------------------------------------------------------------------------
(#) = Out of Range  ###  Number of calibration levels exceeded format  ###

         M3M2887SIM.M        Wed May 18 09:42:08 2016   RPT1
```

Initial Calibration Verification

Job Number: JC21347 **Sample:** E3M2887-ICV2887
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 3M61397.D
Project: BMSMC, Building 5 Area, PR

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\DATA\E3M2887\3m61397.D          Vial: 12
Acq On    : 17 May 2016   7:13 pm                    Operator: linseyk
Sample    : icv2887-1                                Inst    : MS3M
Misc      : op93884a,e3m2887                         Multiplr: 1.00
MS Integration Params: lscint.p

Method       : C:\MSDCHEM\1\METHODS\M3M2887SIM.M (RTE Integrator)
Title        : Semi Volatile Extractables by GC/MS
Last Update  : Wed May 18 08:07:34 2016
Response via : Multiple Level Calibration

Min. RRF     :   0.050  Min. Rel. Area :  50%  Max. R.T. Dev  0.50min
Max. RRF Dev :  30%     Max. Rel. Area : 200%
```

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	1-Methylnaphthalene-d10	1.000	1.000	0.0	80	0.00	10.26
6	t	bis(2-Chloroethyl)ether	0.618	0.712	-15.2	88	0.00	5.97
8	t	Nitrobenzene	0.717	0.758	-5.7	74	0.00	7.42
9	t	Naphthalene	2.258	2.524	-11.8	88	0.00	8.77
10	t	Hexachlorobutadiene	0.352	0.375	-6.5	82	0.00	9.06
11	t	2-Methylnaphthalene	1.181	1.215	-2.9	82	0.00	10.16
		----------	AvgRF	CCRF	% Dev	----------		
14	I	Fluorene-d10	1.000	1.000	0.0	72	0.00	13.26
16	t	Acenaphthylene	1.283	1.451	-13.1	78	0.00	11.91
17	t	Acenaphthene	0.848	1.004	-18.4	83	0.00	12.27
		----------	AvgRF	CCRF	% Dev	----------		
19	t	Fluorene	1.036	1.158	-11.8	79	0.00	13.32
21	I	Fluoranthene-d10	1.000	1.000	0.0	63	0.00	17.48
22	t	Hexachlorobenzene	0.177	0.201	-13.6	73	0.00	14.40
		----------	AvgRF	CCRF	% Dev	----------		
24	t	Phenanthrene	0.933	1.095	-17.4	75	0.00	15.22
25	t	Anthracene	0.849	0.972	-14.5	67	-0.02	15.32
26	t	Fluoranthene	1.136	1.263	-11.2	74	0.00	17.51
27	t	Pyrene	1.021	1.196	-17.1	72	0.00	17.90
29	t	Benzo[a]anthracene	0.904	0.995	-10.1	68	0.00	20.00
30	t	Chrysene	0.931	1.029	-10.5	68	0.00	20.06
31	I	Benzo(a)pyrene-d12	1.000	1.000	0.0	57	0.00	22.08
32	t	Benzo[b]fluoranthene	1.239	1.254	-1.2	59	0.00	21.67
33	t	Benzo[k]fluoranthene	1.087	1.279	-17.7	64	0.00	21.71
34	t	Benzo[a]pyrene	1.112	1.257	-13.0	65	0.00	22.11
35	t	Indeno[1,2,3-cd]pyrene	1.316	1.441	-9.5	62	0.00	23.56
36	t	Dibenz[a,h]anthracene	1.042	1.157	-11.0	61	0.00	23.60
37	t	Benzo[g,h,i]perylene	1.128	1.186	-5.1	62	0.00	23.92

(#) = Out of Range SPCC's out = 0 CCC's out = 0
3m61387a.D M3M2887SIM.M Wed May 18 09:42:36 2016 RPT1

Initial Calibration Verification

Job Number: JC21347
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR
Sample: E3M2887-ICV2887
Lab FileID: 3M61398.D

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\DATA\E3M2887\3m61398.D          Vial: 13
Acq On    : 17 May 2016   7:45 pm                    Operator: linseyk
Sample    : icv2887-1                                Inst    : MS3M
Misc      : op93884a,e3m2887                         Multiplr: 1.00
MS Integration Params: lscint.p

Method       : C:\MSDCHEM\1\METHODS\M3M2887SIM.M (RTE Integrator)
Title        : Semi Volatile Extractables by GC/MS
Last Update  : Wed May 18 08:07:34 2016
Response via : Multiple Level Calibration

Min. RRF     :   0.050  Min. Rel. Area :  50%  Max. R.T. Dev  0.50min
Max. RRF Dev :  30%     Max. Rel. Area : 200%
```

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	1-Methylnaphthalene-d10	1.000	1.000	0.0	123	0.00	10.26
2	t	1,4-dioxane	0.227	0.220	3.1	125	-0.02	2.04
12	t	1-Methylnaphthalene	1.351	1.275	5.6	117	0.00	10.34
		----------	True	Calc.	% Drift	----------		
13		Hexachlorocyclopentadiene	2.000	1.942	2.9	98	0.00	10.49

(#) = Out of Range SPCC's out = 0 CCC's out = 0
3m61387a.D M3M2887SIM.M Wed May 18 09:42:38 2016 RPT1

Initial Calibration Verification

Job Number: JC21347
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR
Sample: E3M2888-ICV2887
Lab FileID: 3M61400.D

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\DATA\E3M2888\3m61400.D          Vial: 2
Acq On    : 18 May 2016   9:12 am                    Operator: linseyk
Sample    : icv2887-1                                Inst    : MS3M
Misc      : op93884a,e3m2888                         Multiplr: 1.00
MS Integration Params: lscint.p

Method       : C:\MSDCHEM\1\METHODS\M3M2887SIM.M (RTE Integrator)
Title        : Semi Volatile Extractables by GC/MS
Last Update  : Wed May 18 08:07:34 2016
Response via : Multiple Level Calibration

Min. RRF     :   0.050  Min. Rel. Area :  50%  Max. R.T. Dev  0.50min
Max. RRF Dev :  30%     Max. Rel. Area : 200%
```

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	1-Methylnaphthalene-d10	1.000	1.000	0.0	89	0.00	10.26
5		Phenol	0.863	0.774	10.3	76	-0.01	5.87
		----------	AvgRF	CCRF	% Dev	----------		
14	I	Fluorene-d10	1.000	1.000	0.0	64	0.00	13.26
		----------	True	Calc.	% Drift	----------		
18	t	4,6-dinitro-2-methylpheno	5.000	4.814	3.7	70	0.00	13.51
21	I	Fluoranthene-d10	1.000	1.000	0.0	67	0.00	17.48
		----------	True	Calc.	% Drift	----------		
23	t	Pentachlorophenol	5.000	5.286	-5.7	74	-0.03	14.85

(#) = Out of Range SPCC's out = 0 CCC's out = 0
3m61387a.D M3M2887SIM.M Wed May 18 09:44:14 2016 RPT1

Continuing Calibration Summary

Job Number: JC21347 **Sample:** E3M2918-CC2887
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 3M61909.D
Project: BMSMC, Building 5 Area, PR

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\DATA\E3M2918\3m61909.D          Vial: 2
Acq On    :  3 Jun 2016   7:55 am                    Operator: ashleyd
Sample    : cc2887-0.5                               Inst    : MS3M
Misc      : op94207a,e3m2918                         Multiplr: 1.00
MS Integration Params: lscint.p

Method       : C:\MSDCHEM\1\METHODS\M3M2887SIM.M (RTE Integrator)
Title        : Semi Volatile Extractables by GC/MS
Last Update  : Fri Jun 03 12:29:24 2016
Response via : Multiple Level Calibration

Min. RRF     :   0.050  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	1-Methylnaphthalene-d10	1.000	1.000	0.0	81	-0.10	10.12
2	t	1,4-dioxane	0.227	0.225	0.9	82	-0.06	1.93
3	S	2-Fluorophenol	0.512	0.499	2.5	75	-0.09	4.14
4	S	Phenol-d5	0.824	0.782	5.1	72	-0.07	5.77
5		Phenol	0.863	0.841	2.5	74	-0.07	5.79
6	t	bis(2-Chloroethyl)ether	0.618	0.590	4.5	74	-0.08	5.82
7	S	Nitrobenzene-d5	0.695	0.685	1.4	77	-0.12	7.25
8	t	Nitrobenzene	0.717	0.736	-2.6	74	-0.10	7.29
9	t	Naphthalene	2.258	1.987	12.0	69	-0.12	8.62
10	t	Hexachlorobutadiene	0.352	0.320	9.1	71	-0.11	8.91
11	t	2-Methylnaphthalene	1.181	1.138	3.6	78	-0.12	10.00
12	t	1-Methylnaphthalene	1.351	1.228	9.1	75	-0.12	10.18
		----------	True	Calc.	% Drift	----------		
13		Hexachlorocyclopentadiene	1.000	0.437	56.3#	26	-0.10	10.32
		----------	AvgRF	CCRF	% Dev	----------		
14	I	Fluorene-d10	1.000	1.000	0.0	62	-0.11	13.11
15	S	2-Fluorobiphenyl	0.989	1.132	-14.5	70	-0.11	10.80
16	t	Acenaphthylene	1.283	1.402	-9.3	62	-0.10	11.77
17	t	Acenaphthene	0.848	0.977	-15.2	68	-0.10	12.13
		----------	True	Calc.	% Drift	----------		
18	t	4,6-dinitro-2-methylpheno	2.500	2.332	6.7	76	-0.07	13.39
		----------	AvgRF	CCRF	% Dev	----------		
19	t	Fluorene	1.036	1.167	-12.6	66	-0.11	13.17
20	S	2,4,6-Tribromophenol	0.097	0.111	-14.4	66	-0.11	13.68
21	I	Fluoranthene-d10	1.000	1.000	0.0	59	-0.02	17.34
22	t	Hexachlorobenzene	0.177	0.182	-2.8	61	-0.05	14.25
		----------	True	Calc.	% Drift	----------		
23	t	Pentachlorophenol	2.500	1.187	52.5#	23	-0.05	14.73
		----------	AvgRF	CCRF	% Dev	----------		
24	t	Phenanthrene	0.933	1.037	-11.1	65	-0.01	15.07
25	t	Anthracene	0.849	0.958	-12.8	64	-0.05	15.18
26	t	Fluoranthene	1.136	1.196	-5.3	65	-0.02	17.37
27	t	Pyrene	1.021	1.211	-18.6	68	0.00	17.77
28	S	Terphenyl-d14	0.558	0.659	-18.1	66	-0.01	18.16

Continuing Calibration Summary

Job Number: JC21347 **Sample:** E3M2918-CC2887
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 3M61909.D
Project: BMSMC, Building 5 Area, PR

29	t	Benzo[a]anthracene	0.904	1.141	-26.2#	71	-0.02	19.87
30	t	Chrysene	0.931	1.085	-16.5	66	-0.02	19.92
31	I	Benzo(a)pyrene-d12	1.000	1.000	0.0	62	-0.02	21.96
32	t	Benzo[b]fluoranthene	1.239	1.332	-7.5	66	0.00	21.54
33	t	Benzo[k]fluoranthene	1.087	1.271	-16.9	67	0.00	21.59
34	t	Benzo[a]pyrene	1.112	1.279	-15.0	68	0.00	21.99
35	t	Indeno[1,2,3-cd]pyrene	1.316	1.570	-19.3	71	-0.04	23.43
36	t	Dibenz[a,h]anthracene	1.042	1.282	-23.0#	76	0.00	23.47
37	t	Benzo[g,h,i]perylene	1.128	1.347	-19.4	72	0.00	23.77

(#) = Out of Range SPCC's out = 0 CCC's out = 0
3m61388a.D M3M2887SIM.M Fri Jun 03 12:30:30 2016 RPT1

6.7.17

6

Continuing Calibration Summary

Job Number: JC21347 **Sample:** E3M2919-CC2887
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 3M61923.D
Project: BMSMC, Building 5 Area, PR

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\DATA\E3M2919\3m61923.D          Vial: 2
Acq On    :  3 Jun 2016   3:20 pm                     Operator: linseyk
Sample    : cc2887-1                                  Inst    : MS3M
Misc      : op94255a,e3m2919                          Multiplr: 1.00
MS Integration Params: lscint.p

Method       : C:\MSDCHEM\1\METHODS\M3M2887SIM.M (RTE Integrator)
Title        : Semi Volatile Extractables by GC/MS
Last Update  : Sun Jun 05 17:11:29 2016
Response via : Multiple Level Calibration

Min. RRF     :   0.050  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	1-Methylnaphthalene-d10	1.000	1.000	0.0	100	0.00	10.12
2	t	1,4-dioxane	0.227	0.196	13.7	90	-0.04	1.93
3	S	2-Fluorophenol	0.512	0.461	10.0	86	-0.05	4.14
4	S	Phenol-d5	0.824	0.723	12.3	84	-0.03	5.76
5		Phenol	0.863	0.790	8.5	87	-0.01	5.79
6	t	bis(2-Chloroethyl)ether	0.618	0.555	10.2	86	0.00	5.82
7	S	Nitrobenzene-d5	0.695	0.652	6.2	88	-0.05	7.25
8	t	Nitrobenzene	0.717	0.733	-2.2	89	-0.03	7.29
9	t	Naphthalene	2.258	1.944	13.9	84	-0.03	8.62
10	t	Hexachlorobutadiene	0.352	0.325	7.7	89	-0.02	8.91
11	t	2-Methylnaphthalene	1.181	1.167	1.2	99	-0.02	10.00
12	t	1-Methylnaphthalene	1.351	1.254	7.2	94	-0.02	10.18
		----------	True	Calc.	% Drift		----------	
13		Hexachlorocyclopentadiene	2.000	1.399	30.0#	64	0.00	10.32
		----------	AvgRF	CCRF	% Dev		----------	
14	I	Fluorene-d10	1.000	1.000	0.0	76	0.00	13.11
15	S	2-Fluorobiphenyl	0.989	1.007	-1.8	83	-0.02	10.79
16	t	Acenaphthylene	1.283	1.312	-2.3	74	-0.02	11.76
17	t	Acenaphthene	0.848	0.912	-7.5	79	-0.01	12.11
		----------	True	Calc.	% Drift		----------	
18	t	4,6-dinitro-2-methylpheno	5.000	5.516	-10.3	98	0.02	13.37
		----------	AvgRF	CCRF	% Dev		----------	
19	t	Fluorene	1.036	1.039	-0.3	74	0.00	13.17
20	S	2,4,6-Tribromophenol	0.097	0.104	-7.2	75	0.00	13.68
21	I	Fluoranthene-d10	1.000	1.000	0.0	72	-0.02	17.34
22	t	Hexachlorobenzene	0.177	0.168	5.1	70	-0.05	14.25
		----------	True	Calc.	% Drift		----------	
23	t	Pentachlorophenol	5.000	4.114	17.7	60	-0.05	14.73
		----------	AvgRF	CCRF	% Dev		----------	
24	t	Phenanthrene	0.933	0.972	-4.2	76	-0.01	15.07
25	t	Anthracene	0.849	0.962	-13.3	77	-0.05	15.18
26	t	Fluoranthene	1.136	1.079	5.0	73	-0.02	17.37
27	t	Pyrene	1.021	1.125	-10.2	77	-0.01	17.76
28	S	Terphenyl-d14	0.558	0.606	-8.6	79	-0.01	18.16

Continuing Calibration Summary

Job Number: JC21347 **Sample:** E3M2919-CC2887
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 3M61923.D
Project: BMSMC, Building 5 Area, PR

29	t	Benzo[a]anthracene	0.904	1.020	-12.8	80	-0.02	19.87
30	t	Chrysene	0.931	1.018	-9.3	77	-0.02	19.92
31	I	Benzo(a)pyrene-d12	1.000	1.000	0.0	69	-0.02	21.96
32	t	Benzo[b]fluoranthene	1.239	1.299	-4.8	74	0.00	21.54
33	t	Benzo[k]fluoranthene	1.087	1.190	-9.5	72	-0.01	21.57
34	t	Benzo[a]pyrene	1.112	1.233	-10.9	76	0.00	21.99
35	t	Indeno[1,2,3-cd]pyrene	1.316	1.451	-10.3	76	-0.04	23.43
36	t	Dibenz[a,h]anthracene	1.042	1.244	-19.4	79	0.00	23.47
37	t	Benzo[g,h,i]perylene	1.128	1.262	-11.9	79	0.00	23.77

(#) = Out of Range SPCC's out = 0 CCC's out = 0
3m61387a.D M3M2887SIM.M Sun Jun 05 17:34:35 2016 RPT1

Continuing Calibration Summary

Job Number: JC21347 **Sample:** E3M2930-CC2887
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 3M62147.D
Project: BMSMC, Building 5 Area, PR

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\DATA\E3M2930\3m62147.D          Vial: 2
Acq On    : 10 Jun 2016   8:54 pm                    Operator: juliusj
Sample    : cc2887-0.5                               Inst    : MS3M
Misc      : op94389a,e3m2930                         Multiplr: 1.00
MS Integration Params: lscint.p

Method       : C:\MSDCHEM\1\METHODS\M3M2887SIM.M (RTE Integrator)
Title        : Semi Volatile Extractables by GC/MS
Last Update  : Thu Jun 09 10:49:16 2016
Response via : Multiple Level Calibration

Min. RRF     :   0.050  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	1-Methylnaphthalene-d10	1.000	1.000	0.0	137	0.04	10.16
2	t	1,4-dioxane	0.227	0.242	-6.6	149	-0.02	1.96
3	S	2-Fluorophenol	0.512	0.516	-0.8	131	0.03	4.21
4	S	Phenol-d5	0.824	0.739	10.3	115	0.07	5.86
5		Phenol	0.863	0.781	9.5	116	0.08	5.88
6	t	bis(2-Chloroethyl)ether	0.618	0.722	-16.8	154	0.01	5.86
7	S	Nitrobenzene-d5	0.695	0.721	-3.7	138	0.00	7.29
8	t	Nitrobenzene	0.717	0.818	-14.1	139	0.01	7.33
9	t	Naphthalene	2.258	2.064	8.6	121	0.01	8.66
10	t	Hexachlorobutadiene	0.352	0.339	3.7	127	0.01	8.94
11	t	2-Methylnaphthalene	1.181	1.272	-7.7	147	0.02	10.04
12	t	1-Methylnaphthalene	1.351	1.228	9.1	127	0.02	10.22
		----------	True	Calc.	% Drift	----------		
13		Hexachlorocyclopentadiene	1.000	0.917	8.3	137	0.04	10.36
		----------	AvgRF	CCRF	% Dev	----------		
14	I	Fluorene-d10	1.000	1.000	0.0	100	0.06	13.17
15	S	2-Fluorobiphenyl	0.989	1.258	-27.2#	124	0.02	10.83
16	t	Acenaphthylene	1.283	1.452	-13.2	104	0.04	11.82
17	t	Acenaphthene	0.848	1.041	-22.8#	116	0.05	12.18
		----------	True	Calc.	% Drift	----------		
18	t	4,6-dinitro-2-methylpheno	2.500	2.539	-1.6	139	0.10	13.45
		----------	AvgRF	CCRF	% Dev	----------		
19	t	Fluorene	1.036	1.202	-16.0	108	0.04	13.21
20	S	2,4,6-Tribromophenol	0.097	0.103	-6.2	97	0.06	13.73
21	I	Fluoranthene-d10	1.000	1.000	0.0	99	0.05	17.40
22	t	Hexachlorobenzene	0.177	0.171	3.4	97	0.00	14.30
		----------	True	Calc.	% Drift	----------		
23	t	Pentachlorophenol	2.500	1.778	28.9#	69	0.01	14.79
		----------	AvgRF	CCRF	% Dev	----------		
24	t	Phenanthrene	0.933	1.044	-11.9	110	0.05	15.13
25	t	Anthracene	0.849	0.966	-13.8	107	0.00	15.22
26	t	Fluoranthene	1.136	1.166	-2.6	107	0.05	17.43
27	t	Pyrene	1.021	1.187	-16.3	112	0.06	17.83
28	S	Terphenyl-d14	0.558	0.663	-18.8	112	0.05	18.22

Continuing Calibration Summary

Job Number: JC21347 **Sample:** E3M2930-CC2887
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 3M62147.D
Project: BMSMC, Building 5 Area, PR

29	t	Benzo[a]anthracene	0.904	1.119	-23.8#	117	0.05	19.94
30	t	Chrysene	0.931	1.100	-18.2	112	0.06	20.00
31	I	Benzo(a)pyrene-d12	1.000	1.000	0.0	105	0.06	22.04
32	t	Benzo[b]fluoranthene	1.239	1.367	-10.3	114	0.08	21.62
33	t	Benzo[k]fluoranthene	1.087	1.203	-10.7	106	0.07	21.65
34	t	Benzo[a]pyrene	1.112	1.249	-12.3	111	0.08	22.07
35	t	Indeno[1,2,3-cd]pyrene	1.316	1.512	-14.9	116	0.06	23.52
36	t	Dibenz[a,h]anthracene	1.042	1.220	-17.1	122	0.09	23.56
37	t	Benzo[g,h,i]perylene	1.128	1.290	-14.4	116	0.09	23.86

(#) = Out of Range SPCC's out = 0 CCC's out = 0
3m61388a.D M3M2887SIM.M Mon Jun 13 10:29:49 2016 RPT1

Initial Calibration Summary

Job Number: JC21347 **Sample:** E3M2931-ICC2931
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 3M62182.D
Project: BMSMC, Building 5 Area, PR

Response Factor Report MS3M

Method : C:\MSDCHEM\1\METHODS\M3M2931SIM.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Jun 14 08:40:29 2016
Response via : Initial Calibration

Calibration Files
2.5 =3m62190.D 1.0 =3m62182.D 0.5 =3m62183.D 0.2 =3m62184.D
0.1 =3m62185.D 0.05=3m62186.D 0.02=3m62187.D 0.01=3m62188.D
5 =3m62189.D = = =

Compound	2.5	1.0	0.5	0.2	0.1	0.05	0.02	0.01	5	Avg	%RSD
1) I 1-Methylnaphthalene-d ----------ISTD----------											
2) 1,4-dioxane	0.190	0.217	0.201	0.260	0.217				0.199	0.214	11.65
3) 2-Fluorophenol	0.507	0.578	0.564	0.604	0.536	0.531			0.505	0.546	6.82
4) Phenol-d5	0.795	0.901	0.888	0.955	0.833	0.829			0.808	0.858	6.74
5) Phenol	0.819	0.912	0.931	1.000	0.867	0.875	0.844		0.853	0.888	6.52
6) bis(2-Chloroethyl)ether	0.571	0.648	0.636	0.691	0.603	0.633	0.609	0.582	0.573	0.616	6.45
7) Nitrobenzene-d5	0.895	1.089	1.075	1.139	0.978	0.957			0.858	0.998	10.52
8) Nitrobenzene	1.058	1.217	1.103	1.149	1.129	0.984	0.850	1.350	1.048	1.099	12.86
9) Naphthalene	2.087	2.543	2.480	2.601	2.311	2.248	2.221	2.269	2.188	2.328	7.49
10) Hexachlorobutadiene	0.452	0.488	0.481	0.519	0.453	0.466	0.483	0.480	0.453	0.475	4.64
11) 2-Methylnaphthalene	1.189	1.272	1.241	1.402	1.157	1.445			1.193	1.271	8.75
12) 1-Methylnaphthalene	1.191	1.495	1.436	1.572	1.340	1.440	1.348	1.232	1.223	1.364	9.68
13) Hexachlorocyclopentadiene	0.540	0.556	0.520	0.523	0.426	0.393			0.577	0.505	13.61
14) I Fluorene-d10 ----------ISTD----------											
15) 2-Fluorobiphenyl	1.118	1.233	1.270	1.188	1.104	1.106	1.081	1.034		1.142	7.07
16) Acenaphthylene	1.486	1.660	1.667	1.551	1.406	1.427	1.404	1.439	1.350	1.488	7.69
17) Acenaphthene	0.955	1.061	1.076	0.985	0.912	0.924	0.929	0.958	0.873	0.964	7.00
18) 4,6-dinitro-2-methylphenol	0.152	0.149	0.121	0.095	0.064				0.173	0.126	32.24
---- Quadratic regression ---- Coefficient = 0.9997											
Response Ratio = -0.00899 + 0.13958 *A + 0.00549 *A^2											
19) Fluorene	1.143	1.198	1.213	1.156	1.061	1.116	1.141	1.139	0.969	1.126	6.53
20) 2,4,6-Tribromophenol	0.121	0.148	0.138	0.123	0.106				0.119	0.126	11.99
21) I Fluoranthene-d10 ----------ISTD----------											

Initial Calibration Summary

Job Number: JC21347 **Sample:** E3M2931-ICC2931
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 3M62182.D
Project: BMSMC, Building 5 Area, PR

```
22)  Hexachlorobenzene
           0.172 0.204 0.206 0.188 0.175 0.168 0.177 0.194 0.171        0.184    7.85
23)  Pentachlorophenol
           0.101 0.123 0.096 0.085 0.056 0.067             0.110        0.091   25.78
            ---- Quadratic regression ----  Coefficient =  0.9976
              Response Ratio = -0.00056 + 0.10136 *A + 0.00128 *A^2

24)  Phenanthrene
           0.930 1.077 1.078 0.936 0.857 0.829 0.882 0.884 0.900        0.930    9.66
25)  Anthracene
           0.909 1.077 1.048 0.931 0.815 0.787 0.810 0.813 0.907        0.900   11.78
26)  Fluoranthene
           1.071 1.253 1.251 1.143 1.092 1.146 1.325       1.041        1.165    8.66
27)  Pyrene
           1.091 1.279 1.253 1.110 1.028 0.971 1.015 1.011 1.068        1.092    9.87
28)  Terphenyl-d14
           0.553 0.657 0.708 0.635 0.581 0.545             0.555        0.605   10.34
29)  Benzo[a]anthracene
           1.002 1.243 1.191 1.023 0.948 0.897 0.920 0.970 0.984        1.020   11.69
30)  Chrysene
           1.033 1.205 1.221 1.081 0.996 0.972             1.031        1.077    9.20

31) I   Benzo(a)pyrene-d12    ----------------ISTD---------------------
32)  Benzo[b]fluoranthene
           1.431 1.405 1.533 1.474 1.335 1.492 1.453       1.362        1.436    4.64
33)  Benzo[k]fluoranthene
           1.041 1.258 1.380 1.270 1.123 1.175 1.065 1.089 1.203        1.178    9.43
34)  Benzo[a]pyrene
           1.211 1.265 1.371 1.346 1.166 1.219             1.246        1.261    5.86
35)  Indeno[1,2,3-cd]pyrene
           1.345 1.431 1.474 1.398 1.268 1.356 1.359 1.598 1.307        1.393    7.08
36)  Dibenz[a,h]anthracene
           1.094 1.213 1.181 1.111 1.004 1.066 1.068 1.203 1.016        1.106    7.01
37)  Benzo[g,h,i]perylene
           1.134 1.214 1.254 1.189 1.110 1.159 1.203 1.321 1.120        1.189    5.75
-------------------------------------------------------------------------------
(#) = Out of Range  ###  Number of calibration levels exceeded format  ###

          M3M2931SIM.M        Tue Jun 14 12:33:59 2016   RPT1
```

Initial Calibration Verification

Job Number: JC21347
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR
Sample: E3M2932-ICV2931
Lab FileID: 3M62197.D

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\DATA\E3M2932\3m62197.D          Vial: 2
Acq On    : 14 Jun 2016  10:04 am                    Operator: linseyk
Sample    : icv2931-1                                Inst    : MS3M
Misc      : op94419a,e3m2932                         Multiplr: 1.00
MS Integration Params: lscint.p

Method       : C:\MSDCHEM\1\METHODS\M3M2931SIM.M (RTE Integrator)
Title        : Semi Volatile Extractables by GC/MS
Last Update  : Tue Jun 14 08:40:29 2016
Response via : Multiple Level Calibration

Min. RRF     :   0.050  Min. Rel. Area :  50%  Max. R.T. Dev  0.50min
Max. RRF Dev :  30%     Max. Rel. Area : 200%
```

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	1-Methylnaphthalene-d10	1.000	1.000	0.0	169	0.00	10.71
5		Phenol	0.888	0.576	35.1#	106	-0.01	6.23
14	I	Fluorene-d10	1.000	1.000	0.0	171	0.00	13.71
		----------	True	Calc.	% Drift	----------		
18	t	4,6-dinitro-2-methylpheno	5.000	3.668	26.6	113	-0.02	13.92
21	I	Fluoranthene-d10	1.000	1.000	0.0	174	-0.01	17.91
		----------	True	Calc.	% Drift	----------		
23	t	Pentachlorophenol	5.000	3.518	29.6	101	-0.01	15.29

(#) = Out of Range SPCC's out = 0 CCC's out = 0
3m62182.D M3M2931SIM.M Tue Jun 14 12:37:10 2016 RPT1

Initial Calibration Verification

Job Number: JC21347 **Sample:** E3M2932-ICV2931
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 3M62198.D
Project: BMSMC, Building 5 Area, PR

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\DATA\E3M2932\3m62198.D          Vial: 3
Acq On    : 14 Jun 2016  10:36 am                    Operator: linseyk
Sample    : icv2931-1                                Inst    : MS3M
Misc      : op94419a,e3m2932                         Multiplr: 1.00
MS Integration Params: lscint.p

Method       : C:\MSDCHEM\1\METHODS\M3M2931SIM.M (RTE Integrator)
Title        : Semi Volatile Extractables by GC/MS
Last Update  : Tue Jun 14 08:40:29 2016
Response via : Multiple Level Calibration

Min. RRF     :   0.050  Min. Rel. Area :  50%  Max. R.T. Dev  0.50min
Max. RRF Dev :  30%     Max. Rel. Area : 200%
```

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	1-Methylnaphthalene-d10	1.000	1.000	0.0	167	0.00	10.71
2	t	1,4-dioxane	0.214	0.174	18.7	134	0.03	2.41
6	t	bis(2-Chloroethyl)ether	0.616	0.564	8.4	146	-0.01	6.37
8	t	Nitrobenzene	1.099	0.941	14.4	129	-0.02	7.83
9	t	Naphthalene	2.328	2.111	9.3	139	-0.02	9.21
10	t	Hexachlorobutadiene	0.475	0.453	4.6	155	0.00	9.53
11	t	2-Methylnaphthalene	1.271	1.197	5.8	157	0.00	10.59
14	I	Fluorene-d10	1.000	1.000	0.0	151	0.00	13.71
16	t	Acenaphthylene	1.488	1.430	3.9	130	0.00	12.36
17	t	Acenaphthene	0.964	0.986	-2.3	141	-0.02	12.72
		----------	AvgRF	CCRF	% Dev	----------		
19	t	Fluorene	1.126	1.096	2.7	139	0.00	13.77
21	I	Fluoranthene-d10	1.000	1.000	0.0	137	-0.02	17.91
22	t	Hexachlorobenzene	0.184	0.198	-7.6	133	-0.02	14.88
		----------	AvgRF	CCRF	% Dev	----------		
24	t	Phenanthrene	0.930	1.031	-10.9	131	-0.02	15.66
25	t	Anthracene	0.900	0.971	-7.9	123	-0.02	15.77
26	t	Fluoranthene	1.165	1.162	0.3	127	-0.02	17.94
27	t	Pyrene	1.092	1.199	-9.8	128	0.00	18.34
29	t	Benzo[a]anthracene	1.020	1.014	0.6	112	0.00	20.42
30	t	Chrysene	1.077	1.000	7.1	114	-0.02	20.47
31	I	Benzo(a)pyrene-d12	1.000	1.000	0.0	117	0.00	22.51
32	t	Benzo[b]fluoranthene	1.436	1.151	19.8	96	-0.02	22.08
33	t	Benzo[k]fluoranthene	1.178	1.138	3.4	106	-0.02	22.12
34	t	Benzo[a]pyrene	1.261	1.081	14.3	100	-0.02	22.53
35	t	Indeno[1,2,3-cd]pyrene	1.393	1.247	10.5	102	0.00	24.07
36	t	Dibenz[a,h]anthracene	1.106	0.983	11.1	95	0.00	24.11
37	t	Benzo[g,h,i]perylene	1.189	1.058	11.0	102	-0.02	24.45

(#) = Out of Range SPCC's out = 0 CCC's out = 0
3m62182.D M3M2931SIM.M Tue Jun 14 12:37:12 2016 RPT1

Continuing Calibration Summary

Job Number: JC21347 **Sample:** E3M2934-CC2931
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 3M62202.D
Project: BMSMC, Building 5 Area, PR

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\DATA\E3M2934\3m62202.D          Vial: 2
Acq On    : 14 Jun 2016  12:42 pm                    Operator: linseyk
Sample    : cc2931-1                                 Inst    : MS3M
Misc      : op94419a,e3m2934                         Multiplr: 1.00
MS Integration Params: lscint.p

Method       : C:\MSDCHEM\1\METHODS\M3M2931SIM.M (RTE Integrator)
Title        : Semi Volatile Extractables by GC/MS
Last Update  : Tue Jun 14 16:02:01 2016
Response via : Multiple Level Calibration

Min. RRF     :   0.050  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	1-Methylnaphthalene-d10	1.000	1.000	0.0	110	-0.02	10.69
2	t	1,4-dioxane	0.214	0.213	0.5	108	0.00	2.38
3	S	2-Fluorophenol	0.546	0.573	-4.9	109	-0.02	4.62
4	S	Phenol-d5	0.858	0.885	-3.1	108	-0.02	6.21
5		Phenol	0.888	0.927	-4.4	112	-0.01	6.23
6	t	bis(2-Chloroethyl)ether	0.616	0.646	-4.9	110	-0.02	6.35
7	S	Nitrobenzene-d5	0.998	1.053	-5.5	107	-0.02	7.80
8	t	Nitrobenzene	1.099	1.053	4.2	96	-0.02	7.83
9	t	Naphthalene	2.328	2.554	-9.7	111	-0.02	9.21
10	t	Hexachlorobutadiene	0.475	0.503	-5.9	114	0.00	9.53
11	t	2-Methylnaphthalene	1.271	1.255	1.3	109	-0.02	10.57
12	t	1-Methylnaphthalene	1.364	1.437	-5.4	106	-0.02	10.77
13		Hexachlorocyclopentadiene	0.505	0.524	-3.8	104	-0.02	10.94
14	I	Fluorene-d10	1.000	1.000	0.0	104	-0.02	13.69
15	S	2-Fluorobiphenyl	1.142	1.298	-13.7	110	-0.03	11.36
16	t	Acenaphthylene	1.488	1.702	-14.4	107	-0.02	12.35
17	t	Acenaphthene	0.964	1.116	-15.8	110	-0.03	12.70
		----------	True	Calc.	% Drift	----------		
18	t	4,6-dinitro-2-methylpheno	5.000	5.170	-3.4	101	-0.04	13.90
		----------	AvgRF	CCRF	% Dev	----------		
19	t	Fluorene	1.126	1.399	-24.2#	122	-0.02	13.75
20	S	2,4,6-Tribromophenol	0.126	0.149	-18.3	105	-0.04	14.24
21	I	Fluoranthene-d10	1.000	1.000	0.0	110	-0.01	17.91
22	t	Hexachlorobenzene	0.184	0.210	-14.1	113	-0.02	14.88
		----------	True	Calc.	% Drift	----------		
23	t	Pentachlorophenol	5.000	5.893	-17.9	109	-0.03	15.28
		----------	AvgRF	CCRF	% Dev	----------		
24	t	Phenanthrene	0.930	1.091	-17.3	112	-0.02	15.67
25	t	Anthracene	0.900	1.053	-17.0	108	-0.03	15.76
26	t	Fluoranthene	1.165	1.231	-5.7	109	-0.03	17.92
27	t	Pyrene	1.092	1.279	-17.1	110	-0.02	18.32
28	S	Terphenyl-d14	0.605	0.666	-10.1	112	-0.03	18.69
29	t	Benzo[a]anthracene	1.020	1.085	-6.4	96	-0.02	20.41
30	t	Chrysene	1.077	1.201	-11.5	110	-0.03	20.46
31	I	Benzo(a)pyrene-d12	1.000	1.000	0.0	104	-0.02	22.49

Continuing Calibration Summary

Job Number: JC21347 **Sample:** E3M2934-CC2931
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 3M62202.D
Project: BMSMC, Building 5 Area, PR

32	t	Benzo[b]fluoranthene	1.436	1.377	4.1	102	0.00	22.06
33	t	Benzo[k]fluoranthene	1.178	1.273	-8.1	105	-0.04	22.10
34	t	Benzo[a]pyrene	1.261	1.235	2.1	102	-0.04	22.51
35	t	Indeno[1,2,3-cd]pyrene	1.393	1.445	-3.7	105	-0.04	24.04
36	t	Dibenz[a,h]anthracene	1.106	1.054	4.7	90	-0.04	24.07
37	t	Benzo[g,h,i]perylene	1.189	1.216	-2.3	104	-0.04	24.43

(#) = Out of Range SPCC's out = 0 CCC's out = 0
3m62182.D M3M2931SIM.M Tue Jun 14 16:02:41 2016 RPT1

Initial Calibration Summary

Job Number: JC21347 **Sample:** EF6563-ICC6563
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** F156053.D
Project: BMSMC, Building 5 Area, PR

Response Factor Report MSF

Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Wed Apr 06 08:33:31 2016
Response via : Initial Calibration

Calibration Files
2 =F156057.D 5 =F156056.D 25 =F156054.D 80 =F156052.D
100 =F156051.D 50 =F156053.D 10 =F156055.D 1 =F156058.D

Compound	2	5	25	80	100	50	10	1	Avg	%RSD
1) I 1,4-Dichlorobenzene-d					ISTD					
2) 1,4-Dioxane	0.435	0.754	0.557	0.575	0.554	0.612	0.690	0.779	0.619	18.58
3) Pyridine	1.365	1.512	1.488	1.487	1.463	1.471	1.542	1.345	1.459	4.72
4) N-Nitrosodim	0.543	0.544	0.495	0.517	0.510	0.518	0.499	0.573	0.525	5.05
5) 2-Fluorophen	1.468	1.471	1.393	1.349	1.313	1.386	1.406	1.467	1.407	4.18
6) Indene	2.666	2.624	2.377	2.021	1.886	2.207	2.519	2.639	2.367	12.66
7) Cumene	3.433	3.411	3.202	2.915	2.701	3.053	3.298	3.427	3.180	8.47
8) Phenol-d5	1.803	1.781	1.689	1.611	1.551	1.667	1.761	1.822	1.711	5.68
9) Phenol	1.900	1.860	1.778	1.806	1.715	1.740	1.819	1.950	1.821	4.36
10) Aniline	2.277	2.212	1.926	1.735	1.611	1.803	2.109	2.271	1.993	13.03
11) bis(2-Chloro	1.382	1.395	1.284	1.231	1.184	1.273	1.336	1.395	1.310	6.07
12) 2-Chlorophen	1.593	1.585	1.471	1.360	1.308	1.430	1.522	1.612	1.485	7.60
13) Decane	1.432	1.362	1.270	1.113	1.067	1.177	1.318	1.482	1.278	11.67
14) 1,3-Dichloro	1.778	1.750	1.645	1.489	1.422	1.574	1.731	1.787	1.647	8.44
15) 1,4-Dichloro	1.757	1.794	1.643	1.495	1.421	1.564	1.736	1.736	1.643	8.31
16) Benzyl alcoh	1.001	0.995	0.930	0.879	0.857	0.917	0.984	1.012	0.947	6.30
17) 1,2-Dichloro	1.685	1.678	1.556	1.352	1.294	1.465	1.623	1.707	1.545	10.27
18) Acetophenone	2.011	2.022	1.799	1.511	1.427	1.643	1.941	1.967	1.790	13.16
19) 2-Methylphen	1.341	1.350	1.271	1.169	1.116	1.238	1.323	1.368	1.272	7.19
20) 2,2'-oxybis(	0.519	0.515	0.457	0.414	0.397	0.444	0.476	0.558	0.472	11.71
21) 3&4-Methylph	1.394	1.437	1.313	1.146	1.075	1.236	1.397	1.437	1.304	10.61
22) n-Nitroso-di	1.093	1.062	0.939	0.859	0.831	0.894	1.003	1.050	0.966	10.31
23) Hexachloroet	0.542	0.548	0.505	0.467	0.445	0.489	0.516	0.560	0.509	8.00
24) I Naphthalene-d8					ISTD					
25) Nitrobenzene	0.382	0.394	0.374	0.357	0.348	0.373	0.387	0.374	0.374	4.05
26) Nitrobenzene	0.398	0.419	0.397	0.372	0.356	0.390	0.411	0.388	0.391	5.14
27) Quinoline	0.814	0.815	0.776	0.728	0.694	0.750	0.806	0.802	0.773	5.81
28) Isophorone	0.695	0.714	0.677	0.616	0.588	0.648	0.701	0.705	0.668	6.90
29) 2-Nitropheno	0.205	0.219	0.210	0.186	0.177	0.200	0.217	0.210	0.203	7.26
30) 2,4-Dimethyl	0.317	0.325	0.320	0.323	0.312	0.330	0.322	0.308	0.320	2.22
31) Benzoic acid	0.238	0.266	0.282	0.304	0.269	0.296	0.273	0.211	0.267	11.38
32) bis(2-Chloro	0.458	0.456	0.418	0.381	0.364	0.400	0.440	0.452	0.421	8.62
33) 2,4-Dichloro	0.337	0.338	0.325	0.295	0.280	0.311	0.337	0.332	0.319	6.90
34) 2,6-Dichloro	0.337	0.336	0.309	0.264	0.247	0.286	0.328	0.345	0.307	12.01
35) 1,3,5-Trichl	0.373	0.382	0.340	0.279	0.265	0.311	0.362	0.377	0.336	13.70
36) 1,2,4-Trichl	0.357	0.355	0.333	0.295	0.277	0.318	0.349	0.356	0.330	9.34
37) 1,2,3-Trichl	0.361	0.353	0.324	0.286	0.270	0.313	0.338	0.361	0.326	10.48
38) Naphthalene	1.244	1.223	1.108	0.902	0.815	1.014	1.196	1.235	1.092	15.11
39) 4-Chloroanil	0.503	0.506	0.454	0.380	0.354	0.414	0.497	0.500	0.451	13.52
40) 2,3-Dichloro	0.426	0.411	0.376	0.304	0.284	0.332	0.413	0.430	0.372	15.57
41) Caprolactam	0.152	0.150	0.152	0.151	0.144	0.151	0.155	0.158	0.152	2.70
42) Hexachlorobu	0.178	0.165	0.160	0.137	0.128	0.148	0.167	0.167	0.156	11.01
43) 4-Chloro-3-m	0.317	0.341	0.316	0.299	0.283	0.309	0.328	0.314	0.313	5.66
44) 2-Methylnaph	0.684	0.678	0.621	0.539	0.508	0.582	0.663	0.653	0.616	10.80
45) 1-Methylnaph	0.696	0.700	0.639	0.552	0.524	0.602	0.680	0.679	0.634	10.71

Job Number: JC21347 **Sample:** EF6563-ICC6563
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** F156053.D
Project: BMSMC, Building 5 Area, PR

```
46) Dimethylnaph 0.704 0.711 0.655 0.561 0.526 0.611 0.686 0.685 0.642  10.79

47) I   Acenaphthene-d10      ----------------ISTD---------------------
48) Hexachlorocy 0.282 0.297 0.293 0.246 0.228 0.268 0.299 0.260 0.271   9.49
49) 2,4,6-Trichl 0.393 0.378 0.339 0.281 0.259 0.313 0.371 0.382 0.339  14.82
50) 2,4,5-Trichl 0.398 0.405 0.378 0.353 0.334 0.357 0.384 0.381 0.374   6.38
51) 2-Fluorobiph 1.441 1.396 1.288 1.112 1.046 1.185 1.361 1.384 1.277  11.40
52) 2-Chloronaph 1.266 1.268 1.154 1.024 0.963 1.087 1.227 1.257 1.156  10.30
53) Biphenyl     1.656 1.637 1.515 1.274 1.190 1.381 1.585 1.636 1.484  12.18
54) 2-Nitroanili 0.328 0.346 0.335 0.331 0.317 0.334 0.340 0.289 0.328   5.41
55) Dimethylphth 1.390 1.383 1.309 1.191 1.117 1.234 1.355 1.370 1.293   7.86
56) Acenaphthyle 2.072 2.049 1.907 1.660 1.516 1.758 1.992 2.035 1.874  11.02
57) 2,6-Dinitrot 0.260 0.292 0.287 0.279 0.266 0.287 0.292 0.274 0.280   4.29
58) 3-Nitroanili 0.350 0.364 0.367 0.349 0.334 0.354 0.368 0.315 0.350   5.16
59) Acenaphthene 1.304 1.315 1.193 1.026 0.962 1.091 1.233 1.290 1.177  11.47
60) 2,4-Dinitrop 0.079 0.109 0.154 0.169 0.164 0.164 0.132 0.056 0.129  33.34
         ----- Quadratic regression -----                Coefficient =  0.9994
              Response Ratio = -0.01316 + 0.17125 *A + -0.00057 *A^2

61) 4-Nitropheno 0.152 0.164 0.172 0.176 0.169 0.169 0.163 0.151 0.164   5.39
62) Dibenzofuran 1.767 1.778 1.615 1.414 1.331 1.493 1.707 1.742 1.606  10.77
63) 2,4-Dinitrot 0.372 0.398 0.402 0.385 0.368 0.389 0.395 0.322 0.379   6.84
64) 2,3,4,6-Tetr 0.290 0.297 0.291 0.273 0.255 0.279 0.294 0.275 0.282   4.99
65) Diethylphtha 1.365 1.347 1.288 1.180 1.123 1.236 1.314 1.374 1.278   7.15
66) Fluorene     1.404 1.425 1.247 1.024 0.952 1.101 1.348 1.385 1.236  15.07
67) 4-Chlorophen 0.658 0.618 0.540 0.437 0.407 0.477 0.592 0.629 0.545  17.38
68) 4-Nitroanili 0.354 0.373 0.358 0.353 0.338 0.349 0.372 0.332 0.353   4.12

69) I   Phenanthrene-d10      ----------------ISTD---------------------
70) 4,6-Dinitro-       0.100 0.130 0.139 0.135 0.139 0.115       0.126  12.21
71) n-Nitrosodip 0.603 0.630 0.578 0.523 0.491 0.550 0.597 0.609 0.572   8.30
72) 1,2-Diphenyl 0.825 0.848 0.798 0.745 0.715 0.774 0.823 0.802 0.791   5.61
73) 2,4,6-Tribro 0.086 0.085 0.083 0.079 0.076 0.084 0.084 0.077 0.082   4.52
74) 4-Bromopheny 0.210 0.211 0.197 0.176 0.164 0.183 0.199 0.200 0.192   8.62
75) Hexachlorobe 0.198 0.203 0.182 0.167 0.157 0.176 0.192 0.194 0.184   8.80
76) Pentachlorop 0.123 0.132 0.133 0.115 0.108 0.123 0.129 0.105 0.121   8.73
77) Phenanthrene 1.263 1.260 1.159 1.018 0.949 1.069 1.225 1.264 1.151  10.79
78) Anthracene   1.250 1.272 1.164 1.030 0.963 1.096 1.211 1.229 1.152   9.69
79) Carbazole    1.162 1.163 1.109 0.982 0.930 1.024 1.142 1.127 1.080   8.25
80) Di-n-butylph 1.378 1.461 1.400 1.262 1.170 1.324 1.413 1.382 1.349   6.94
81) Fluoranthene 1.200 1.228 1.163 1.058 1.000 1.105 1.185 1.191 1.141   6.94
82) Octadecane   0.485 0.512 0.484 0.425 0.409 0.456 0.499 0.476 0.468   7.66

83) I   Chrysene-d12          ----------------ISTD---------------------
84) Pyrene       1.431 1.461 1.433 1.397 1.341 1.430 1.429 1.425 1.419   2.52
85) Terphenyl-d1 0.821 0.833 0.822 0.805 0.769 0.825 0.818 0.806 0.812   2.43
86) Butylbenzylp 0.660 0.694 0.706 0.733 0.705 0.726 0.684 0.665 0.697   3.81
87) Butyl steara 0.340 0.377 0.394 0.398 0.386 0.410 0.382 0.334 0.378   7.18
88) Benzo[a]anth 1.264 1.198 1.198 1.204 1.158 1.210 1.186 1.274 1.212   3.22
89) 3,3'-Dichlor 0.414 0.432 0.427 0.442 0.426 0.430 0.428 0.377 0.422   4.64
90) Chrysene     1.228 1.241 1.201 1.193 1.137 1.202 1.208 1.224 1.204   2.62
91) bis(2-Ethylh 0.915 0.943 0.999 1.006 0.983 1.020 0.962 0.896 0.966   4.60

92) I   Perylene-d12          ----------------ISTD---------------------
93) Di-n-octylph 1.708 1.820 1.853 1.727 1.647 1.823 1.823 1.621 1.753   5.09
94) Benzo[b]fluo 1.257 1.309 1.254 1.168 1.101 1.210 1.289 1.300 1.236   5.84
95) Benzo[k]fluo 1.257 1.247 1.241 1.125 1.084 1.186 1.265 1.275 1.210   5.89
96) Benzo[a]pyre 1.158 1.179 1.152 1.082 1.030 1.124 1.150 1.175 1.132   4.55
97) Indeno[1,2,3 1.063 1.065 1.077 1.016 0.969 1.047 1.071 1.045 1.044   3.43
98) Dibenz(a,h)a 0.885 0.929 0.931 0.877 0.838 0.901 0.930 0.883 0.897   3.65
```

Initial Calibration Summary

Job Number: JC21347 **Sample:** EF6563-ICC6563
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** F156053.D
Project: BMSMC, Building 5 Area, PR

```
 99) Dibenz[a,h]a 1.026 1.044 1.043 1.012 0.945 1.014 1.061 0.937 1.010   4.54
100) 7,12-Dimethy 0.460 0.490 0.528 0.499 0.469 0.519 0.495 0.401 0.483   8.27
101) Benzo[g,h,i] 1.148 1.180 1.162 1.086 1.015 1.104 1.164 1.169 1.128   5.00
 ---------------------------------------------------------------------------
 (#) = Out of Range  ###  Number of calibration levels exceeded format  ###

          MF6563.M          Wed Apr 06 08:34:20 2016   RT1
```

Initial Calibration Summary

Job Number: JC21347 **Sample:** EF6564-ICC6564
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** F156062.D
Project: BMSMC, Building 5 Area, PR

```
                          Response Factor Report  MSF

  Method       : C:\MSDCHEM\1\METHODS\MF6564.M (RTE Integrator)
  Title        : Semi Volatile Extractables by GC/MS
  Last Update  : Wed Apr 06 08:33:31 2016
  Response via : Initial Calibration

  Calibration Files
  2   =F156066.D  5   =F156065.D  25  =F156063.D  80  =F156061.D
  100 =F156060.D  50  =F156062.D  10  =F156064.D  1   =F156067.D

   Compound          2     5     25    80    100   50    10    1     Avg %RSD
  ---------------------------------------------------------------------------
159) I   1,4-Dichlorobenzene-d ----------------ISTD---------------------
160) Benzaldehyde 1.314 1.266 1.115 0.952 0.817 1.052 1.157 1.340 1.126  16.20

161) I   Naphthalene-d8b       ----------------ISTD---------------------
162) Hydroquinone 0.268 0.329 0.362 0.349 0.321 0.376 0.354 0.252 0.326  13.67

163)     Acenaphthene-d10b     ----------------ISTD---------------------
164) 1,2,4,5-Tetr 0.648 0.642 0.534 0.466 0.440 0.496 0.569 0.657 0.557  15.50

165)     Phenanthrene-d10b     ----------------ISTD---------------------
166) Atrazine     0.203 0.217 0.192 0.178 0.168 0.186 0.193 0.200 0.192   7.94

167)     Chrysene-d12b         ----------------ISTD---------------------
168) Benzidine    0.740 0.852 0.774 0.574 0.440 0.740 0.776 0.664 0.695  19.00
 ---------------------------------------------------------------------------
 (#) = Out of Range  ###  Number of calibration levels exceeded format  ###

           MF6563.M          Wed Apr 06 09:12:35 2016   RT1
```

Initial Calibration Verification

Job Number: JC21347 **Sample:** EF6564-ICV6563
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** F156069.D
Project: BMSMC, Building 5 Area, PR

Evaluate Continuing Calibration Report

```
Data File : C:\MSDCHEM\1\DATA\EF6564\F156069.D          Vial: 11
Acq On    :  5 Apr 2016   3:46 am                   Operator: sarad
Sample    : icv6563-50                              Inst    : MSF
Misc      : op92661,ef6564,100                      Multiplr: 1.00
MS Integration Params: LSCINT.P

Method       : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title        : Semi Volatile Extractables by GC/MS
Last Update  : Wed Apr 06 08:33:31 2016
Response via : Multiple Level Calibration

Min. RRF     :   0.050  Min. Rel. Area :  50%  Max. R.T. Dev  0.50min
Max. RRF Dev :  30%     Max. Rel. Area : 200%
```

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	99	0.00	4.88
3	t	Pyridine	1.459	1.468	-0.6	99	0.07	2.86
10	t	Aniline	1.993	2.110	-5.9	116	0.00	4.64
16	t	Benzyl alcohol	0.947	0.920	2.9	99	0.00	4.98
24	I	Naphthalene-d8	1.000	1.000	0.0	106	0.00	5.80
39	t	4-Chloroaniline	0.451	0.416	7.8	106	0.00	5.85
44	t	2-Methylnaphthalene	0.616	0.531	13.8	96	0.00	6.33
47	I	Acenaphthene-d10	1.000	1.000	0.0	103	0.00	7.27
54	t	2-Nitroaniline	0.328	0.291	11.3	90	0.00	6.82
58	t	3-Nitroaniline	0.350	0.305	12.9	89	0.00	7.21
62	t	Dibenzofuran	1.606	1.408	12.3	97	0.00	7.49
68	t	4-Nitroaniline	0.353	0.292	17.3	86	-0.01	7.90
69	I	Phenanthrene-d10	1.000	1.000	0.0	99	-0.01	9.21
79	t	Carbazole	1.080	0.973	9.9	94	0.00	9.61

(#) = Out of Range SPCC's out = 0 CCC's out = 0
F156062A.D MF6563.M Wed Apr 06 08:50:50 2016 RT1

Initial Calibration Verification

Job Number: JC21347 **Sample:** EF6564-ICV6563
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** F156070.D
Project: BMSMC, Building 5 Area, PR

Evaluate Continuing Calibration Report

```
Data File : C:\MSDCHEM\1\DATA\EF6564\F156070.D          Vial: 12
Acq On    :  5 Apr 2016   4:15 am                   Operator: sarad
Sample    : icv6563-50                              Inst    : MSF
Misc      : op92661,ef6564,100                      Multiplr: 1.00
MS Integration Params: LSCINT.P

Method       : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title        : Semi Volatile Extractables by GC/MS
Last Update  : Wed Apr 06 08:33:31 2016
Response via : Multiple Level Calibration

Min. RRF     :   0.050  Min. Rel. Area :  50%  Max. R.T. Dev  0.50min
Max. RRF Dev :  30%     Max. Rel. Area : 200%
```

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	102	0.00	4.88
5	S	2-Fluorophenol	1.407	1.228	12.7	90	0.00	3.89
8	S	Phenol-d5	1.711	1.474	13.9	90	0.00	4.60
24	I	Naphthalene-d8	1.000	1.000	0.0	101	0.00	5.80
25	S	Nitrobenzene-d5	0.374	0.331	11.5	89	0.00	5.28
47	I	Acenaphthene-d10	1.000	1.000	0.0	97	0.00	7.27
51	S	2-Fluorobiphenyl	1.277	1.106	13.4	90	0.00	6.63
69	I	Phenanthrene-d10	1.000	1.000	0.0	91	-0.01	9.21
73	S	2,4,6-Tribromophenol	0.082	0.072	12.2	78	-0.01	8.19
83	I	Chrysene-d12	1.000	1.000	0.0	95	-0.02	14.53
85	S	Terphenyl-d14	0.812	0.700	13.8	80	0.00	12.30

(#) = Out of Range SPCC's out = 0 CCC's out = 0
F156062A.D MF6563.M Wed Apr 06 08:50:51 2016 RT1

Initial Calibration Verification

Job Number: JC21347 **Sample:** EF6564-ICV6563
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** F156071.D
Project: BMSMC, Building 5 Area, PR

Evaluate Continuing Calibration Report

Data File : C:\MSDCHEM\1\DATA\EF6564\F156071.D Vial: 13
Acq On : 5 Apr 2016 4:44 am Operator: sarad
Sample : icv6563-50 Inst : MSF
Misc : op92661,ef6564,100 Multiplr: 1.00
MS Integration Params: LSCINT.P

Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Wed Apr 06 08:33:31 2016
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	91	0.00	4.88
4	t	N-Nitrosodimethylamine	0.525	0.491	6.5	86	0.00	2.76
11	t	bis(2-Chloroethyl)ether	1.310	1.262	3.7	90	0.00	4.68
14	t	1,3-Dichlorobenzene	1.647	1.531	7.0	88	0.00	4.84
15	t	1,4-Dichlorobenzene	1.643	1.547	5.8	90	0.00	4.89
17	t	1,2-Dichlorobenzene	1.545	1.468	5.0	91	0.00	5.00
20	t	2,2'-oxybis(1-Chloropropa	0.472	0.407	13.8	83	0.00	5.08
22		n-Nitroso-di-n-propylamin	0.966	0.892	7.7	91	0.00	5.17
23	t	Hexachloroethane	0.509	0.474	6.9	88	0.00	5.25
24	I	Naphthalene-d8	1.000	1.000	0.0	91	0.00	5.80
26	t	Nitrobenzene	0.391	0.361	7.7	84	0.00	5.29
28	t	Isophorone	0.668	0.657	1.6	92	-0.01	5.46
32	t	bis(2-Chloroethoxy)methan	0.421	0.383	9.0	87	0.00	5.62
36	t	1,2,4-Trichlorobenzene	0.330	0.300	9.1	86	0.00	5.76
38	t	Naphthalene	1.092	1.031	5.6	92	0.00	5.82
42	t	Hexachlorobutadiene	0.156	0.146	6.4	89	0.00	5.90
47	I	Acenaphthene-d10	1.000	1.000	0.0	85	0.00	7.27
52	t	2-Chloronaphthalene	1.156	1.074	7.1	84	0.00	6.74
55	t	Dimethylphthalate	1.293	1.139	11.9	78	0.00	6.98
56	t	Acenaphthylene	1.874	1.715	8.5	83	0.00	7.13
57	t	2,6-Dinitrotoluene	0.280	0.250	10.7	74	0.00	7.05
59	t	Acenaphthene	1.177	1.104	6.2	86	0.00	7.30
63	t	2,4-Dinitrotoluene	0.379	0.317	16.4	69	0.00	7.46
65	t	Diethylphthalate	1.278	1.093	14.5	75	-0.01	7.74
66	t	Fluorene	1.236	1.107	10.4	85	0.00	7.89
67	t	4-Chlorophenyl-phenylethe	0.545	0.466	14.5	83	0.00	7.89
69	I	Phenanthrene-d10	1.000	1.000	0.0	80	0.00	9.21
71	t	n-Nitrosodiphenylamine	0.572	0.506	11.5	74	0.00	8.03
72	t	1,2-Diphenylhydrazine	0.791	0.781	1.3	81	0.00	8.08
74	t	4-Bromophenyl-phenylether	0.192	0.180	6.3	79	0.00	8.54
75	t	Hexachlorobenzene	0.184	0.176	4.3	80	0.00	8.62
77	t	Phenanthrene	1.151	1.081	6.1	81	0.00	9.25
78	t	Anthracene	1.152	1.079	6.3	79	-0.01	9.33
80	t	Di-n-butylphthalate	1.349	1.228	9.0	74	0.00	10.32
81	t	Fluoranthene	1.141	1.063	6.8	77	-0.01	11.42
83	I	Chrysene-d12	1.000	1.000	0.0	81	-0.01	14.54
84	t	Pyrene	1.419	1.406	0.9	79	0.00	11.88
86	t	Butylbenzylphthalate	0.697	0.638	8.5	71	-0.01	13.48

Initial Calibration Verification

Job Number: JC21347 **Sample:** EF6564-ICV6563
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** F156071.D
Project: BMSMC, Building 5 Area, PR

88	t	Benzo[a]anthracene	1.212	1.111	8.3	74	-0.01	14.52
90	t	Chrysene	1.204	1.116	7.3	75	-0.02	14.59
91	t	bis(2-Ethylhexyl)phthalat	0.966	0.878	9.1	70	0.00	14.89
92	I	Perylene-d12	1.000	1.000	0.0	76	-0.01	17.58
93	t	Di-n-octylphthalate	1.753	1.614	7.9	67	0.00	16.35
94	t	Benzo[b]fluoranthene	1.236	1.149	7.0	72	-0.01	16.83
95	t	Benzo[k]fluoranthene	1.210	1.203	0.6	77	-0.02	16.89
96	t	Benzo[a]pyrene	1.132	1.096	3.2	74	-0.01	17.47
97	t	Indeno[1,2,3-cd]pyrene	1.044	1.002	4.0	72	-0.02	19.53
99	t	Dibenz[a,h]anthracene	1.010	0.973	3.7	73	-0.02	19.59
101	t	Benzo[g,h,i]perylene	1.128	1.079	4.3	74	-0.02	19.95

(#) = Out of Range SPCC's out = 0 CCC's out = 0
F156062A.D MF6563.M Thu Apr 07 09:55:37 2016 RT1

Initial Calibration Verification

Job Number: JC21347
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR
Sample: EF6564-ICV6564
Lab FileID: F156071A.D

Evaluate Continuing Calibration Report

```
Data File : C:\MSDCHEM\1\DATA\EF6564\F156071A.D          Vial: 13
Acq On    :  5 Apr 2016   4:44 am                    Operator: sarad
Sample    : icv6564-50                               Inst    : MSF
Misc      : op92661,ef6564,100                       Multiplr: 1.00
MS Integration Params: LSCINT.P

Method       : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title        : Semi Volatile Extractables by GC/MS
Last Update  : Wed Apr 06 08:33:31 2016
Response via : Multiple Level Calibration

Min. RRF     :   0.050  Min. Rel. Area :  50%  Max. R.T. Dev  0.50min
Max. RRF Dev :  30%     Max. Rel. Area : 200%
```

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
163	Acenaphthene-d10b	1.000	1.000	0.0	103	0.00	7.27
164	1,2,4,5-Tetrachlorobenzen	0.557	0.496	11.0	103	0.00	6.46

(#) = Out of Range SPCC's out = 0 CCC's out = 0
F156062A.D MF6563.M Thu Apr 07 09:55:38 2016 RT1

Initial Calibration Verification

Job Number: JC21347 **Sample:** EF6564-ICV6563
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** F156072.D
Project: BMSMC, Building 5 Area, PR

Evaluate Continuing Calibration Report

```
Data File : C:\MSDCHEM\1\DATA\EF6564\F156072.D          Vial: 14
Acq On    :  5 Apr 2016   5:13 am                   Operator: sarad
Sample    : icv6563-50                              Inst    : MSF
Misc      : op92661,ef6564,100                      Multiplr: 1.00
MS Integration Params: LSCINT.P

Method       : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title        : Semi Volatile Extractables by GC/MS
Last Update  : Wed Apr 06 08:33:31 2016
Response via : Multiple Level Calibration

Min. RRF     :   0.050  Min. Rel. Area :  50%  Max. R.T. Dev  0.50min
Max. RRF Dev :  30%     Max. Rel. Area : 200%
```

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	98	0.00	4.88
2	t	1,4-Dioxane	0.619	0.548	11.5	88	0.00	2.49
6	t	Indene	2.367	2.240	5.4	100	0.00	5.07
7	t	Cumene	3.180	2.825	11.2	91	0.00	4.29
13	t	Decane	1.278	1.119	12.4	94	0.00	4.76
18	t	Acetophenone	1.790	1.667	6.9	100	0.00	5.17
24	I	Naphthalene-d8	1.000	1.000	0.0	110	0.00	5.80
27	t	Quinoline	0.773	0.578	25.2	85	-0.02	6.05
41	t	Caprolactam	0.152	0.112	26.3	82	-0.03	6.09
45	t	1-Methylnaphthalene	0.634	0.469	26.0	86	0.00	6.41
46	t	Dimethylnaphthalene	0.642	0.480	25.2	87	0.00	6.86
47	I	Acenaphthene-d10	1.000	1.000	0.0	93	0.00	7.27
48	t	Hexachlorocyclopentadiene	0.271	0.278	-2.6	96	0.00	6.46
53	t	Biphenyl	1.484	1.284	13.5	87	0.00	6.72
69	I	Phenanthrene-d10	1.000	1.000	0.0	88	0.00	9.21
82	t	Octadecane	0.468	0.437	6.6	84	0.00	9.10
92	I	Perylene-d12	1.000	1.000	0.0	79	-0.01	17.58
100	t	7,12-Dimethylbenz(a)anthr	0.483	0.447	7.5	68	-0.02	16.84

(#) = Out of Range SPCC's out = 0 CCC's out = 0
F156062A.D MF6563.M Thu Apr 07 09:55:39 2016 RT1

Initial Calibration Verification

Job Number: JC21347 **Sample:** EF6564-ICV6564
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** F156072A.D
Project: BMSMC, Building 5 Area, PR

Evaluate Continuing Calibration Report

```
Data File : C:\MSDCHEM\1\DATA\EF6564\F156072A.D          Vial: 14
Acq On    :  5 Apr 2016   5:13 am                    Operator: sarad
Sample    : icv6564-50                               Inst    : MSF
Misc      : op92661,ef6564,100                       Multiplr: 1.00
MS Integration Params: LSCINT.P

Method       : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title        : Semi Volatile Extractables by GC/MS
Last Update  : Wed Apr 06 08:33:31 2016
Response via : Multiple Level Calibration

Min. RRF     :   0.050  Min. Rel. Area :  50%  Max. R.T. Dev  0.50min
Max. RRF Dev :  30%     Max. Rel. Area : 200%
```

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
159 I	1,4-Dichlorobenzene-d4b	1.000	1.000	0.0	109	0.00	4.88
160 t	Benzaldehyde	1.126	1.021	9.3	105	0.00	4.56
165	Phenanthrene-d10b	1.000	1.000	0.0	97	0.00	9.21
166	Atrazine	0.192	0.172	10.4	90	0.00	8.79

(#) = Out of Range SPCC's out = 0 CCC's out = 0
F156062A.D MF6563.M Thu Apr 07 09:55:40 2016 RT1

Initial Calibration Verification

Job Number: JC21347
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR
Sample: EF6564-ICV6563
Lab FileID: F156073.D

Evaluate Continuing Calibration Report

```
Data File : C:\MSDCHEM\1\DATA\EF6564\F156073.D          Vial: 15
Acq On    :  5 Apr 2016   5:42 am                   Operator: sarad
Sample    : icv6563-50                              Inst    : MSF
Misc      : op92661,ef6564,100                      Multiplr: 1.00
MS Integration Params: LSCINT.P

Method       : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title        : Semi Volatile Extractables by GC/MS
Last Update  : Wed Apr 06 08:33:31 2016
Response via : Multiple Level Calibration

Min. RRF     :   0.050  Min. Rel. Area :  50%  Max. R.T. Dev  0.50min
Max. RRF Dev :  30%     Max. Rel. Area : 200%
```

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
83 I	Chrysene-d12	1.000	1.000	0.0	108	-0.02	14.53
89 t	3,3'-Dichlorobenzidine	0.422	0.396	6.2	100	-0.01	14.55

(#) = Out of Range SPCC's out = 0 CCC's out = 0
F156062A.D MF6563.M Thu Apr 07 09:55:41 2016 RT1

Initial Calibration Verification

Job Number: JC21347
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR
Sample: EF6564-ICV6564
Lab FileID: F156073A.D

Evaluate Continuing Calibration Report

```
Data File : C:\MSDCHEM\1\DATA\EF6564\F156073A.D          Vial: 15
Acq On    :  5 Apr 2016   5:42 am                    Operator: sarad
Sample    : icv6564-50                               Inst    : MSF
Misc      : op92661,ef6564,100                       Multiplr: 1.00
MS Integration Params: LSCINT.P

Method       : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title        : Semi Volatile Extractables by GC/MS
Last Update  : Wed Apr 06 08:33:31 2016
Response via : Multiple Level Calibration

Min. RRF     :   0.050  Min. Rel. Area :  50%  Max. R.T. Dev  0.50min
Max. RRF Dev :  30%     Max. Rel. Area : 200%
```

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
167	Chrysene-d12b	1.000	1.000	0.0	104	0.00	14.53
168	Benzidine	0.695	0.912	-31.2#	128	0.00	11.76

(#) = Out of Range SPCC's out = 0 CCC's out = 0
F156062A.D MF6563.M Thu Apr 07 09:55:42 2016 RT1

Initial Calibration Verification

Job Number: JC21347
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR
Sample: EF6565-ICV6563
Lab FileID: F156078.D

Evaluate Continuing Calibration Report

```
Data File : C:\MSDCHEM\1\DATA\EF6565\F156078.D          Vial: 2
Acq On    :  5 Apr 2016  12:56 pm                   Operator: linseyk
Sample    : icv6563-50                              Inst    : MSF
Misc      : op92661,ef6565                          Multiplr: 1.00
MS Integration Params: LSCINT.P

Method       : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title        : Semi Volatile Extractables by GC/MS
Last Update  : Wed Apr 06 08:33:31 2016
Response via : Multiple Level Calibration

Min. RRF     :   0.050  Min. Rel. Area :  50%  Max. R.T. Dev  0.50min
Max. RRF Dev :  30%     Max. Rel. Area : 200%
```

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	85	0.00	4.88
9	t	Phenol	1.821	1.660	8.8	81	0.00	4.61
12	t	2-Chlorophenol	1.485	1.304	12.2	78	0.00	4.72
19	t	2-Methylphenol	1.272	1.187	6.7	82	0.00	5.05
21	t	3&4-Methylphenol	1.304	1.268	2.8	88	-0.01	5.16
24	I	Naphthalene-d8	1.000	1.000	0.0	87	0.00	5.80
29	t	2-Nitrophenol	0.203	0.180	11.3	78	0.00	5.52
30	t	2,4-Dimethylphenol	0.320	0.339	-5.9	89	0.00	5.55
31	t	Benzoic acid	0.267	0.276	-3.4	81	0.00	5.62
33	t	2,4-Dichlorophenol	0.319	0.276	13.5	77	0.00	5.70
34		2,6-Dichlorophenol	0.307	0.263	14.3	80	0.00	5.86
43	t	4-Chloro-3-methylphenol	0.313	0.285	8.9	80	0.00	6.20
47	I	Acenaphthene-d10	1.000	1.000	0.0	84	0.00	7.27
49	t	2,4,6-Trichlorophenol	0.339	0.312	8.0	84	0.00	6.56
50	t	2,4,5-Trichlorophenol	0.374	0.315	15.8	74	-0.01	6.58
		----------	True	Calc.	% Drift	----------		
60	t	2,4-Dinitrophenol	50.00	40.157	19.7	64	0.00	7.32
		----------	AvgRF	CCRF	% Dev	----------		
61	t	4-Nitrophenol	0.164	0.175	-6.7	87	0.00	7.37
64		2,3,4,6-Tetrachlorophenol	0.282	0.245	13.1	74	0.00	7.62
69	I	Phenanthrene-d10	1.000	1.000	0.0	82	0.00	9.22
70	t	4,6-Dinitro-2-methylpheno	0.126	0.117	7.1	69	0.00	7.94
76	t	Pentachlorophenol	0.121	0.122	-0.8	82	0.00	8.91

(#) = Out of Range SPCC's out = 0 CCC's out = 0
F156062A.D MF6563.M Wed Apr 06 09:15:27 2016 RT1

Initial Calibration Verification

Job Number: JC21347
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR
Sample: EF6567-ICV6564
Lab FileID: F156097.D

Evaluate Continuing Calibration Report

```
Data File : C:\MSDCHEM\1\DATA\EF6567\F156097.D          Vial: 10
Acq On    :  5 Apr 2016  10:16 pm                   Operator: sarad
Sample    : icv6564-50                              Inst    : MSF
Misc      : op92661,ef6567                          Multiplr: 1.00
MS Integration Params: LSCINT.P

Method       : C:\MSDCHEM\1\METHODS\MF6563AP9.M (RTE Integrator)
Title        : Semi Volatile Extractables by GC/MS
Last Update  : Fri Apr 08 17:01:57 2016
Response via : Multiple Level Calibration

Min. RRF     :   0.050  Min. Rel. Area :  50%  Max. R.T. Dev  0.50min
Max. RRF Dev :  30%     Max. Rel. Area : 200%
```

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
161	I	Naphthalene-d8b	1.000	1.000	0.0	71	0.00	5.80
162	t	Hydroquinone	0.326	0.369	-13.2	69	0.00	6.07

(#) = Out of Range SPCC's out = 0 CCC's out = 0
F156091A.D MF6563AP9.M Fri Apr 08 17:30:38 2016 RT1

Continuing Calibration Summary

Job Number: JC21347 **Sample:** EF6637-CC6563
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** F157713.D
Project: BMSMC, Building 5 Area, PR

Evaluate Continuing Calibration Report

Data File : C:\MSDCHEM\1\DATA\EF6637\F157713.D Vial: 2
Acq On : 2 Jun 2016 9:51 pm Operator: juliusj
Sample : cc6563-50 Inst : MSF
Misc : op93756,ef6637 Multiplr: 1.00
MS Integration Params: LSCINT.P

Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Jun 03 11:39:27 2016
Response via : Multiple Level Calibration

Min. RRF : 0.050 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	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	53	-0.15	4.55
2	t	1,4-Dioxane	0.619	0.602	2.7	52	-0.20	2.08
3	t	Pyridine	1.459	1.484	-1.7	53	-0.08	2.42
4	t	N-Nitrosodimethylamine	0.525	0.674	-28.4#	69	-0.16	2.38
5	S	2-Fluorophenol	1.407	1.396	0.8	53	-0.16	3.57
6	t	Indene	2.367	2.584	-9.2	62	-0.16	4.74
7	t	Cumene	3.180	3.639	-14.4	63	-0.16	3.95
8	S	Phenol-d5	1.711	1.875	-9.6	60	-0.15	4.31
9	t	Phenol	1.821	2.119	-16.4	64	-0.12	4.32
10	t	Aniline	1.993	1.651	17.2	48#	-0.15	4.32
11	t	bis(2-Chloroethyl)ether	1.310	1.423	-8.6	59	-0.15	4.37
12	t	2-Chlorophenol	1.485	1.472	0.9	54	-0.16	4.40
13	t	Decane	1.278	1.193	6.7	54	-0.15	4.43
14	t	1,3-Dichlorobenzene	1.647	1.571	4.6	53	-0.15	4.51
15	t	1,4-Dichlorobenzene	1.643	1.592	3.1	54	-0.16	4.56
16	t	Benzyl alcohol	0.947	0.995	-5.1	57	-0.16	4.66
17	t	1,2-Dichlorobenzene	1.545	1.558	-0.8	56	-0.16	4.68
18	t	Acetophenone	1.790	2.195	-22.6#	71	-0.16	4.85
19	t	2-Methylphenol	1.272	1.407	-10.6	60	-0.15	4.76
20	t	2,2'-oxybis(1-Chloropropa	0.472	0.470	0.4	56	-0.16	4.76
21	t	3&4-Methylphenol	1.304	1.550	-18.9	66	-0.15	4.87
22		n-Nitroso-di-n-propylamin	0.966	1.276	-32.1#	76	-0.15	4.86
23	t	Hexachloroethane	0.509	0.487	4.3	53	-0.16	4.92
24	I	Naphthalene-d8	1.000	1.000	0.0	58	-0.15	5.48
25	S	Nitrobenzene-d5	0.374	0.449	-20.1#	70	-0.15	4.96
26	t	Nitrobenzene	0.391	0.461	-17.9	69	-0.15	4.97
27	t	Quinoline	0.773	0.717	7.2	56	-0.15	5.74
28	t	Isophorone	0.668	0.742	-11.1	67	-0.15	5.15
29	t	2-Nitrophenol	0.203	0.204	-0.5	59	-0.15	5.20
30	t	2,4-Dimethylphenol	0.320	0.354	-10.6	63	-0.15	5.25
31	t	Benzoic acid	0.267	0.305	-14.2	60	-0.12	5.36
32	t	bis(2-Chloroethoxy)methan	0.421	0.423	-0.5	62	-0.15	5.31
33	t	2,4-Dichlorophenol	0.319	0.283	11.3	53	-0.15	5.39
34		2,6-Dichlorophenol	0.307	0.277	9.8	56	-0.16	5.54
35		1,3,5-Trichlorobenzene	0.336	0.307	8.6	58	-0.16	5.21
36	t	1,2,4-Trichlorobenzene	0.330	0.293	11.2	54	-0.15	5.43
37		1,2,3-Trichlorobenzene	0.326	0.290	11.0	54	-0.17	5.59
38	t	Naphthalene	1.092	1.108	-1.5	64	-0.15	5.49
39	t	4-Chloroaniline	0.451	0.393	12.9	55	-0.16	5.54
40	t	2,3-Dichloroaniline	0.372	0.344	7.5	60	-0.17	6.20
41	t	Caprolactam	0.152	0.140	7.9	54	-0.14	5.81

Continuing Calibration Summary

Job Number: JC21347 **Sample:** EF6637-CC6563
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** F157713.D
Project: BMSMC, Building 5 Area, PR

42	t	Hexachlorobutadiene	0.156	0.151	3.2	60	-0.16	5.58
43	t	4-Chloro-3-methylphenol	0.313	0.334	-6.7	63	-0.15	5.89
44	t	2-Methylnaphthalene	0.616	0.590	4.2	59	-0.17	5.98
45	t	1-Methylnaphthalene	0.634	0.609	3.9	59	-0.17	6.06
46	t	Dimethylnaphthalene	0.642	0.620	3.4	59	-0.18	6.47
47	I	Acenaphthene-d10	1.000	1.000	0.0	57	-0.20	6.84
48	t	Hexachlorocyclopentadiene	0.271	0.289	-6.6	61	-0.17	6.10
49	t	2,4,6-Trichlorophenol	0.339	0.327	3.5	59	-0.18	6.20
50	t	2,4,5-Trichlorophenol	0.374	0.360	3.7	57	-0.18	6.24
51	S	2-Fluorobiphenyl	1.277	1.217	4.7	58	-0.18	6.26
52	t	2-Chloronaphthalene	1.156	1.098	5.0	57	-0.18	6.36
53	t	Biphenyl	1.484	1.438	3.1	59	-0.18	6.34
54	t	2-Nitroaniline	0.328	0.440	-34.1#	74	-0.18	6.45
55	t	Dimethylphthalate	1.293	1.277	1.2	59	-0.19	6.60
56	t	Acenaphthylene	1.874	1.829	2.4	59	-0.20	6.72
57	t	2,6-Dinitrotoluene	0.280	0.291	-3.9	58	-0.19	6.66
58	t	3-Nitroaniline	0.350	0.324	7.4	52	-0.24	6.82
59	t	Acenaphthene	1.177	1.163	1.2	60	-0.20	6.88
		----------	True	Calc.	% Drift	----------		
60	t	2,4-Dinitrophenol	100.000	100.176	-0.2	57	-0.20	6.92
		----------	AvgRF	CCRF	% Dev	----------		
61	t	4-Nitrophenol	0.164	0.227	-38.4#	76	-0.21	7.00
62	t	Dibenzofuran	1.606	1.540	4.1	58	-0.21	7.05
63	t	2,4-Dinitrotoluene	0.379	0.409	-7.9	60	-0.20	7.04
64		2,3,4,6-Tetrachlorophenol	0.282	0.267	5.3	54	-0.22	7.18
65	t	Diethylphthalate	1.278	1.305	-2.1	60	-0.21	7.29
66	t	Fluorene	1.236	1.286	-4.0	66	-0.23	7.41
67	t	4-Chlorophenyl-phenylethe	0.545	0.562	-3.1	67	-0.23	7.41
68	t	4-Nitroaniline	0.353	0.326	7.6	53	-0.22	7.45
69	I	Phenanthrene-d10	1.000	1.000	0.0	56	-0.28	8.64
70	t	4,6-Dinitro-2-methylpheno	0.126	0.143	-13.5	58	-0.23	7.49
71	t	n-Nitrosodiphenylamine	0.572	0.524	8.4	53	-0.23	7.55
72	t	1,2-Diphenylhydrazine	0.791	0.996	-25.9#	72	-0.24	7.60
73	S	2,4,6-Tribromophenol	0.082	0.099	-20.7#	66	-0.24	7.70
74	t	4-Bromophenyl-phenylether	0.192	0.185	3.6	57	-0.26	8.01
75	t	Hexachlorobenzene	0.184	0.193	-4.9	61	-0.26	8.09
76	t	Pentachlorophenol	0.121	0.133	-9.9	61	-0.27	8.38
77	t	Phenanthrene	1.151	1.121	2.6	59	-0.28	8.68
78	t	Anthracene	1.152	1.127	2.2	58	-0.28	8.76
79	t	Carbazole	1.080	1.022	5.4	56	-0.29	9.03
80	t	Di-n-butylphthalate	1.349	1.415	-4.9	60	-0.30	9.71
81	t	Fluoranthene	1.141	1.127	1.2	57	-0.34	10.76
82	t	Octadecane	0.468	0.490	-4.7	60	-0.27	8.55
83	I	Chrysene-d12	1.000	1.000	0.0	64	-0.38	13.82
84	t	Pyrene	1.419	1.273	10.3	57	-0.35	11.19
85	S	Terphenyl-d14	0.812	0.798	1.7	62	-0.34	11.63
86	t	Butylbenzylphthalate	0.697	0.675	3.2	60	-0.36	12.80
88	t	Benzo[a]anthracene	1.212	1.124	7.3	60	-0.38	13.79
89	t	3,3'-Dichlorobenzidine	0.422	0.433	-2.6	65	-0.37	13.85
90	t	Chrysene	1.204	1.116	7.3	60	-0.37	13.87
91	t	bis(2-Ethylhexyl)phthalat	0.966	0.949	1.8	60	-0.37	14.19
92	I	Perylene-d12	1.000	1.000	0.0	60	-0.40	16.84
93	t	Di-n-octylphthalate	1.753	1.800	-2.7	59	-0.36	15.64
94	t	Benzo[b]fluoranthene	1.236	1.267	-2.5	63	-0.31	16.10

Continuing Calibration Summary

Job Number: JC21347 **Sample:** EF6637-CC6563
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** F157713.D
Project: BMSMC, Building 5 Area, PR

95	t	Benzo[k]fluoranthene	1.210	1.186	2.0	60	-0.38	16.16
96	t	Benzo[a]pyrene	1.132	1.105	2.4	59	-0.39	16.73
97	t	Indeno[1,2,3-cd]pyrene	1.044	1.097	-5.1	63	-0.36	18.79
98	t	Dibenz(a,h)acridine	0.897	0.952	-6.1	63	-0.36	18.42
99	t	Dibenz[a,h]anthracene	1.010	1.088	-7.7	64	-0.41	18.85
100	t	7,12-Dimethylbenz(a)anthr	0.483	0.561	-16.1	65	-0.28	16.11
101	t	Benzo[g,h,i]perylene	1.128	1.153	-2.2	63	-0.42	19.21

(#) = Out of Range SPCC's out = 0 CCC's out = 0
F156062A.D MF6563.M Fri Jun 03 12:09:31 2016 RT1

Continuing Calibration Summary

Job Number: JC21347 **Sample:** EF6637-CC6564
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** F157714.D
Project: BMSMC, Building 5 Area, PR

Evaluate Continuing Calibration Report

```
Data File : C:\MSDCHEM\1\DATA\EF6637\F157714.D          Vial: 3
Acq On    :  2 Jun 2016  10:19 pm                   Operator: juliusj
Sample    : cc6564-50                               Inst    : MSF
Misc      : op93756,ef6637                          Multiplr: 1.00
MS Integration Params: LSCINT.P

Method       : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title        : Semi Volatile Extractables by GC/MS
Last Update  : Fri Jun 03 11:39:27 2016
Response via : Multiple Level Calibration

Min. RRF     :   0.050  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.
102 I	1,4-Dichlorobenzene-d4b	1.000	1.000	0.0	61	-0.16	4.55
103 t	Benzaldehyde	1.126	0.841	25.3#	49#	-0.16	4.23
104 I	Naphthalene-d8b	1.000	1.000	0.0	65	-0.16	5.47
105 t	Hydroquinone	0.326	0.342	-4.9	59	-0.16	5.79
106	Acenaphthene-d10b	1.000	1.000	0.0	66	-0.20	6.84
107	1,2,4,5-Tetrachlorobenzen	0.557	0.487	12.6	65	-0.18	6.11
108	Phenanthrene-d10b	1.000	1.000	0.0	61	-0.28	8.64
109	Atrazine	0.192	0.206	-7.3	68	-0.27	8.28
110	Chrysene-d12b	1.000	1.000	0.0	63	-0.39	13.80
111	Benzidine	0.695	0.486	30.1#	41#	-0.35	11.11

(#) = Out of Range SPCC's out = 0 CCC's out = 0
F156062A.D MF6563.M Fri Jun 03 12:09:32 2016 RT1

GC/MS Semi-volatiles

Raw Data

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6637\F157721.D Vial: 10
Acq On : 3 Jun 2016 2:44 am Operator: juliusj
Sample : jc21347-1 Inst : MSF
Misc : op94425,ef6637,950 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 03 03:06:50 2016 Quant Results File: MF6563.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Thu Jun 02 12:50:20 2016
Response via : Initial Calibration
DataAcq Meth : MF6563

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.55	152	382456	40.00 ppm	-0.01
24) Naphthalene-d8	5.47	136	1606357	40.00 ppm	-0.02
47) Acenaphthene-d10	6.84	164	930579	40.00 ppm	-0.02
69) Phenanthrene-d10	8.63	188	1485142	40.00 ppm	-0.03
83) Chrysene-d12	13.80	240	1377072	40.00 ppm	-0.04
92) Perylene-d12	16.83	264	1276200	40.00 ppm	-0.04
102) 1,4-Dichlorobenzene-d4b	4.55	152	382456	40.00 ppm	-0.01
104) Naphthalene-d8b	5.47	136	1606357	40.00 ppm	-0.02
106) Acenaphthene-d10b	6.84	164	930579	40.00 ppm	-0.02
108) Phenanthrene-d10b	8.63	188	1485142	40.00 ppm	-0.03
110) Chrysene-d12b	13.80	240	1377072	40.00 ppm	-0.04

System Monitoring Compounds					
5) 2-Fluorophenol	3.57	112	226322	16.83 ppm	-0.04
Spiked Amount 50.000			Recovery = 33.66%		
8) Phenol-d5	4.31	99	210574	12.87 ppm	-0.02
Spiked Amount 50.000			Recovery = 25.74%		
25) Nitrobenzene-d5	4.96	82	467861	31.19 ppm	-0.02
Spiked Amount 50.000			Recovery = 62.38%		
51) 2-Fluorobiphenyl	6.26	172	763119	25.69 ppm	0.00
Spiked Amount 50.000			Recovery = 51.38%		
73) 2,4,6-Tribromophenol	7.69	330	116594	38.47 ppm	-0.02
Spiked Amount 50.000			Recovery = 76.94%		
85) Terphenyl-d14	11.61	244	757087	27.07 ppm	-0.06
Spiked Amount 50.000			Recovery = 54.14%		

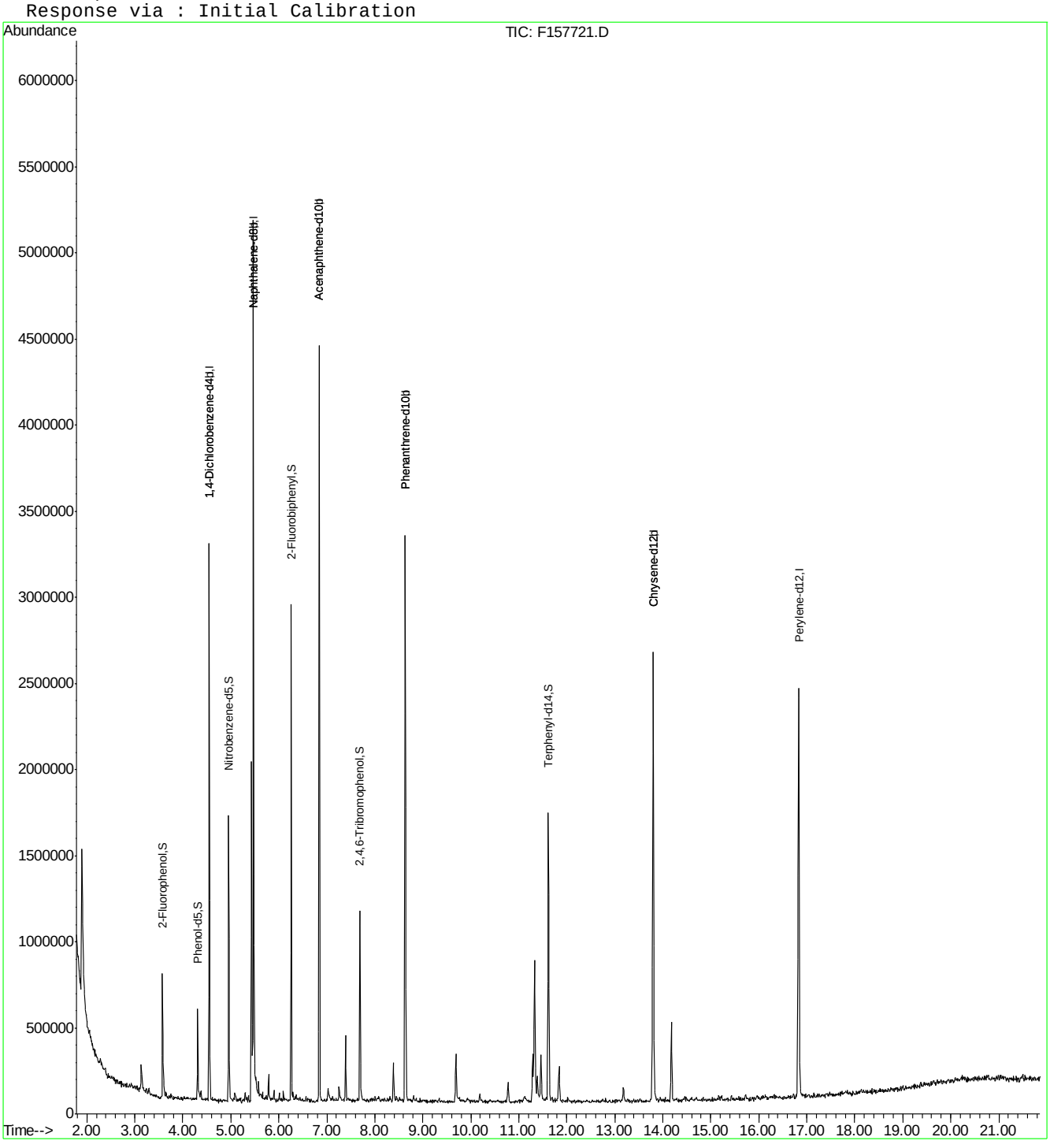
Target Compounds Qvalue

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

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6637\F157721.D Vial: 10
Acq On : 3 Jun 2016 2:44 am Operator: juliusj
Sample : jc21347-1 Inst : MSF
Misc : op94425,ef6637,950 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 3 14:42 2016 Quant Results File: MF6563.RES

Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Jun 03 14:41:29 2016
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P2614\
Data File : 2p59954.D
Acq On : 8 Jun 2016 6:15 pm
Operator : robertl1
Sample : JC21347-2
Misc : op94471,e2p2614,30.1
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Jun 09 16:43:34 2016
Quant Method : C:\MSDCHEM\1\METHODS\M2P2606.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri Jun 03 08:53:01 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.868	152	340543	40.00	ppm	-0.04
24) Naphthalene-d8	5.922	136	1230568	40.00	ppm	-0.04
47) Acenaphthene-d10	7.371	164	676462	40.00	ppm	-0.04
69) Phenanthrene-d10	8.714	188	1089445	40.00	ppm	-0.04
83) Chrysene-d12	12.089	240	950761	40.00	ppm	-0.04
91) Perylene-d12	14.110	264	676495	40.00	ppm	-0.03
101) 1,4-Dichlorobenzene-d4a	4.868	152	340543	40.00	ppm	-0.04
103) Naphthalene-d8a	5.922	136	1230568	40.00	ppm	-0.04
105) Acenaphthene-d10a	7.371	164	676462	40.00	ppm	-0.04
108) Chrysene-d12a	12.089	240	950761	40.00	ppm	-0.04
System Monitoring Compounds						
5) 2-Fluorophenol	3.777	112	461809	36.06	ppm	-0.01
Spiked Amount 50.000	Range 11 - 58		Recovery = 72.12%#			
8) Phenol-d5	4.590	99	578064	38.02	ppm	-0.01
Spiked Amount 50.000	Range 10 - 59		Recovery = 76.04%#			
25) Nitrobenzene-d5	5.328	82	482738	41.55	ppm	-0.04
Spiked Amount 50.000	Range 19 - 61		Recovery = 83.10%#			
51) 2-Fluorobiphenyl	6.815	172	1040503	45.29	ppm	-0.04
Spiked Amount 50.000	Range 21 - 58		Recovery = 90.58%#			
73) 2,4,6-Tribromophenol	8.050	330	140456	47.90	ppm	-0.03
Spiked Amount 50.000	Range 12 - 68		Recovery = 95.80%#			
85) Terphenyl-d14	10.629	244	984408	49.63	ppm	-0.04
Spiked Amount 50.000	Range 16 - 65		Recovery = 99.26%#			

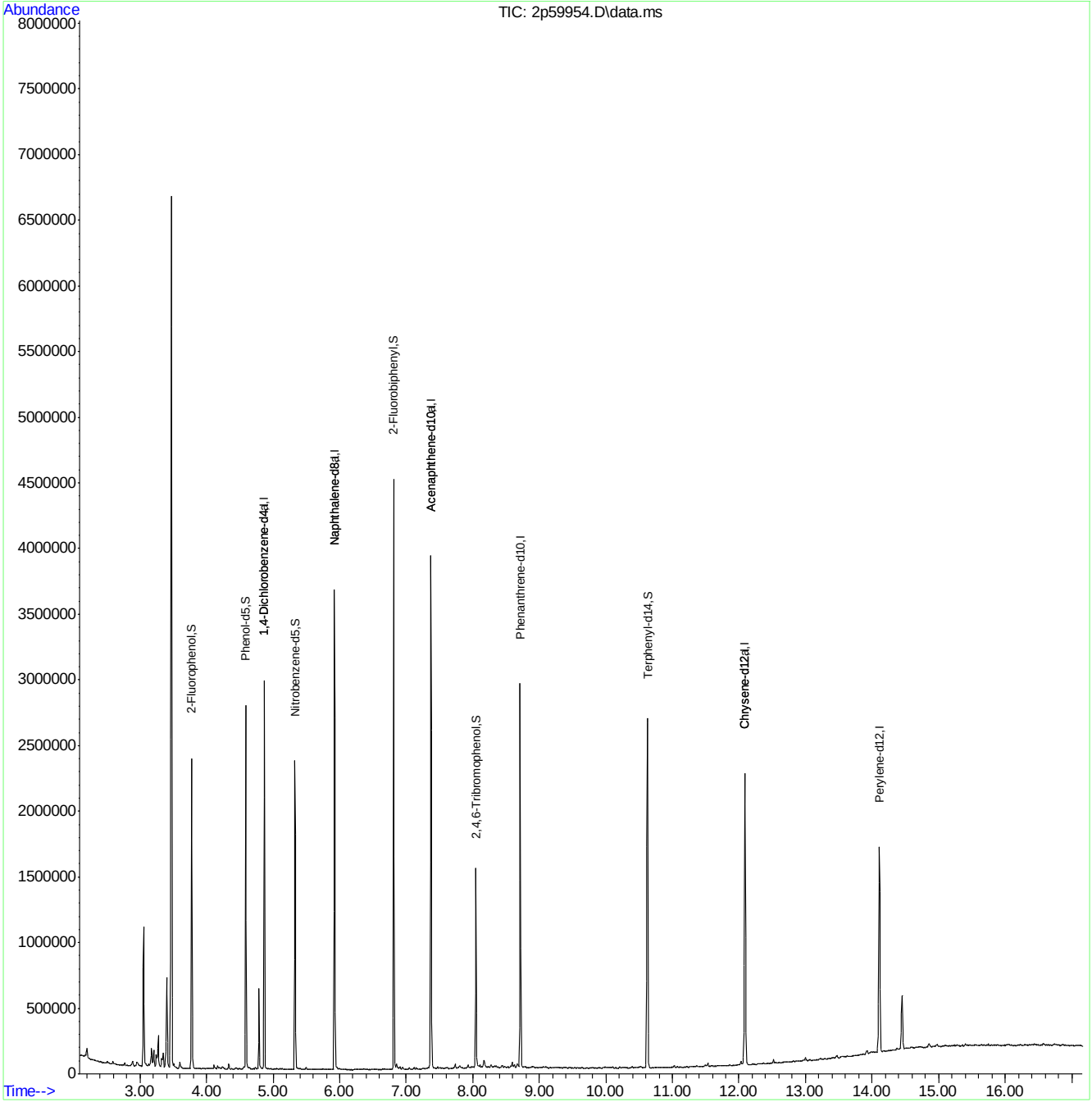
Target Compounds Qvalue

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P2614\
Data File : 2p59954.D
Acq On : 8 Jun 2016 6:15 pm
Operator : robertl1
Sample : JC21347-2
Misc : op94471,e2p2614,30.1
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Jun 09 16:43:34 2016
Quant Method : C:\MSDCHEM\1\METHODS\M2P2606.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri Jun 03 08:53:01 2016
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6637\F157722.D Vial: 11
Acq On : 3 Jun 2016 3:13 am Operator: juliusj
Sample : jc21347-3 Inst : MSF
Misc : op94425,ef6637,900 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 03 03:35:28 2016 Quant Results File: MF6563.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Thu Jun 02 12:50:20 2016
Response via : Initial Calibration
DataAcq Meth : MF6563

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.55	152	367403	40.00	ppm	-0.01
24) Naphthalene-d8	5.47	136	1495448	40.00	ppm	-0.02
47) Acenaphthene-d10	6.84	164	886623	40.00	ppm	-0.02
69) Phenanthrene-d10	8.63	188	1416116	40.00	ppm	-0.03
83) Chrysene-d12	13.80	240	1288971	40.00	ppm	-0.04
92) Perylene-d12	16.83	264	1200487	40.00	ppm	-0.05
102) 1,4-Dichlorobenzene-d4b	4.55	152	367403	40.00	ppm	-0.01
104) Naphthalene-d8b	5.47	136	1495448	40.00	ppm	-0.02
106) Acenaphthene-d10b	6.84	164	886623	40.00	ppm	-0.02
108) Phenanthrene-d10b	8.63	188	1416116	40.00	ppm	-0.03
110) Chrysene-d12b	13.80	240	1288714	40.00	ppm	-0.04

System Monitoring Compounds						
5) 2-Fluorophenol	3.57	112	237337	18.37	ppm	-0.04
Spiked Amount 50.000			Recovery = 36.74%			
8) Phenol-d5	4.31	99	194301	12.37	ppm	-0.02
Spiked Amount 50.000			Recovery = 24.74%			
25) Nitrobenzene-d5	4.96	82	534117	38.25	ppm	-0.02
Spiked Amount 50.000			Recovery = 76.50%			
51) 2-Fluorobiphenyl	6.26	172	853264	30.15	ppm	0.00
Spiked Amount 50.000			Recovery = 60.30%			
73) 2,4,6-Tribromophenol	7.69	330	125976	43.59	ppm	-0.02
Spiked Amount 50.000			Recovery = 87.18%			
85) Terphenyl-d14	11.61	244	608479	23.24	ppm	-0.06
Spiked Amount 50.000			Recovery = 46.48%			

Target Compounds						Qvalue
2) 1,4-Dioxane	2.08	88	122895	21.60	ppm	90

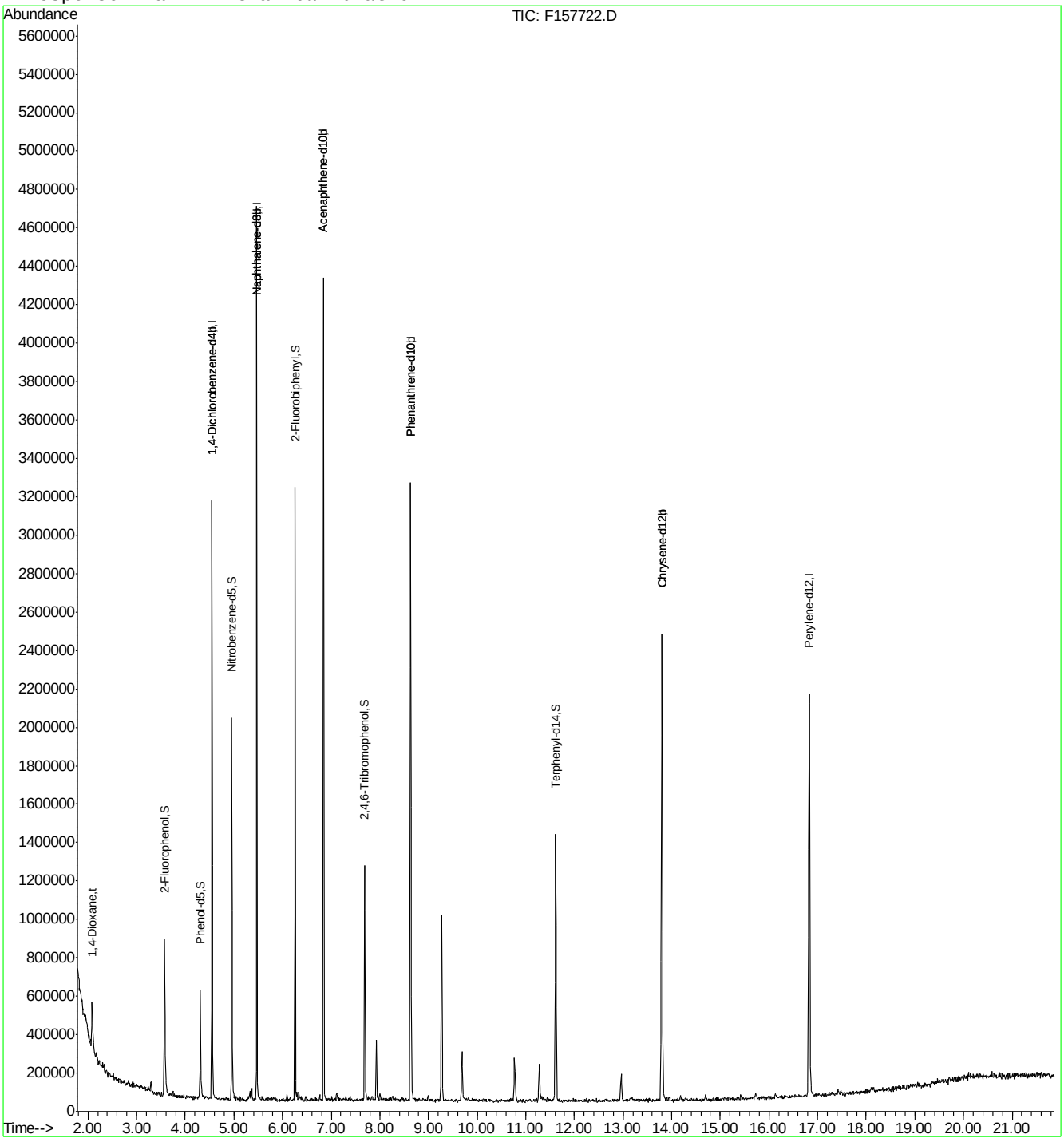
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC21347

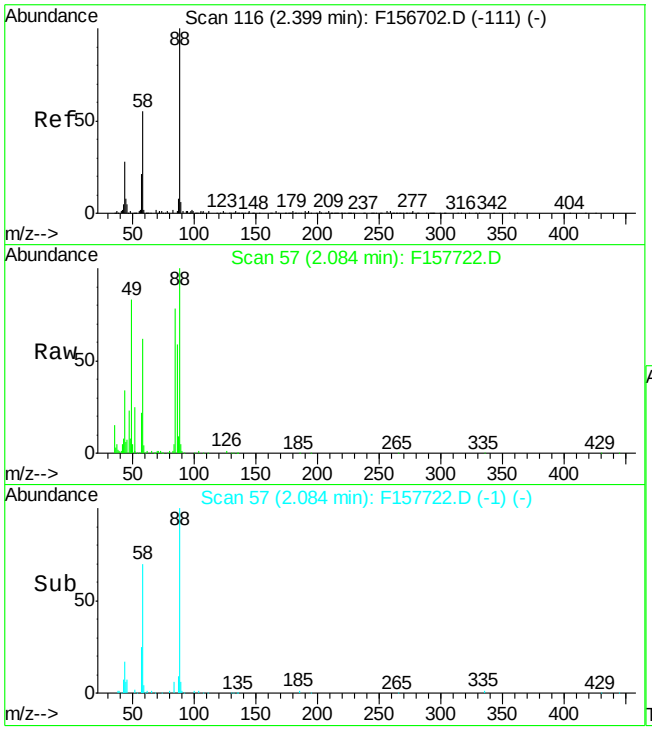
Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6637\F157722.D Vial: 11
Acq On : 3 Jun 2016 3:13 am Operator: juliusj
Sample : jc21347-3 Inst : MSF
Misc : op94425,ef6637,900 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 3 12:43 2016 Quant Results File: MF6563.RES

Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Jun 03 12:31:44 2016
Response via : Initial Calibration



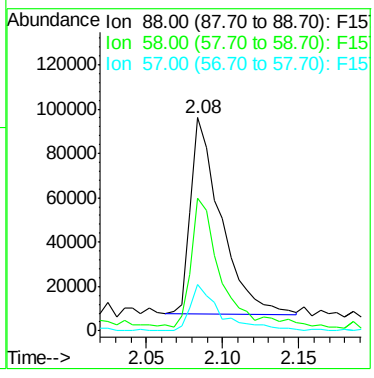
F157722.D MF6563.M Fri Jun 03 12:43:36 2016 RT1 Page 2



#2
1,4-Dioxane
Concen: 21.60 ppm
RT: 2.08 min Scan# 57
Delta R.T. -0.02 min
Lab File: F157722.D
Acq: 3 Jun 2016 3:13 am

Tgt Ion: 88 Resp: 122895

Ion	Ratio	Lower	Upper
88	100		
58	64.3	44.8	104.8
57	23.4	0.0	51.5



7.1.3

7

SGS ACCUTEST JC21347

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2918\
Data File : 3m61912.D
Acq On : 3 Jun 2016 9:31 am
Operator : ashleyd
Sample : jc21347-1
Misc : op94425a,e3m2918,950
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 03 12:36:55 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2887SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri Jun 03 08:51:03 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	10.118	150	620851	4.00	ppm	-0.10
14) Fluorene-d10	13.111	176	852621	4.00	ppm	-0.11
21) Fluoranthene-d10	17.340	212	1295949	4.00	ppm	-0.02
31) Benzo(a)pyrene-d12	21.960	264	1051072	4.00	ppm	-0.02
System Monitoring Compounds						
3) 2-Fluorophenol	4.152	112	1163448	14.65	ppm	-0.08
Spiked Amount 50.000			Recovery = 29.30%			
4) Phenol-d5	5.774	99	1361982	10.65	ppm	-0.07
Spiked Amount 50.000			Recovery = 21.30%			
7) Nitrobenzene-d5	7.250	82	2597431	24.08	ppm	-0.12
Spiked Amount 50.000			Recovery = 48.16%			
15) 2-Fluorobiphenyl	10.795	172	5488277	26.03	ppm	-0.11
Spiked Amount 50.000			Recovery = 52.06%			
20) 2,4,6-Tribromophenol	13.676	330	647029	31.24	ppm	-0.11
Spiked Amount 50.000			Recovery = 62.48%			
28) Terphenyl-d14	18.175	244	5075585	28.05	ppm	0.00
Spiked Amount 50.000			Recovery = 56.10%			
Target Compounds						Qvalue
2) 1,4-dioxane	1.942	88	21398	0.61	ppm	94
9) Naphthalene	8.643	128	53759	0.15	ppm	78

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

7.1.4

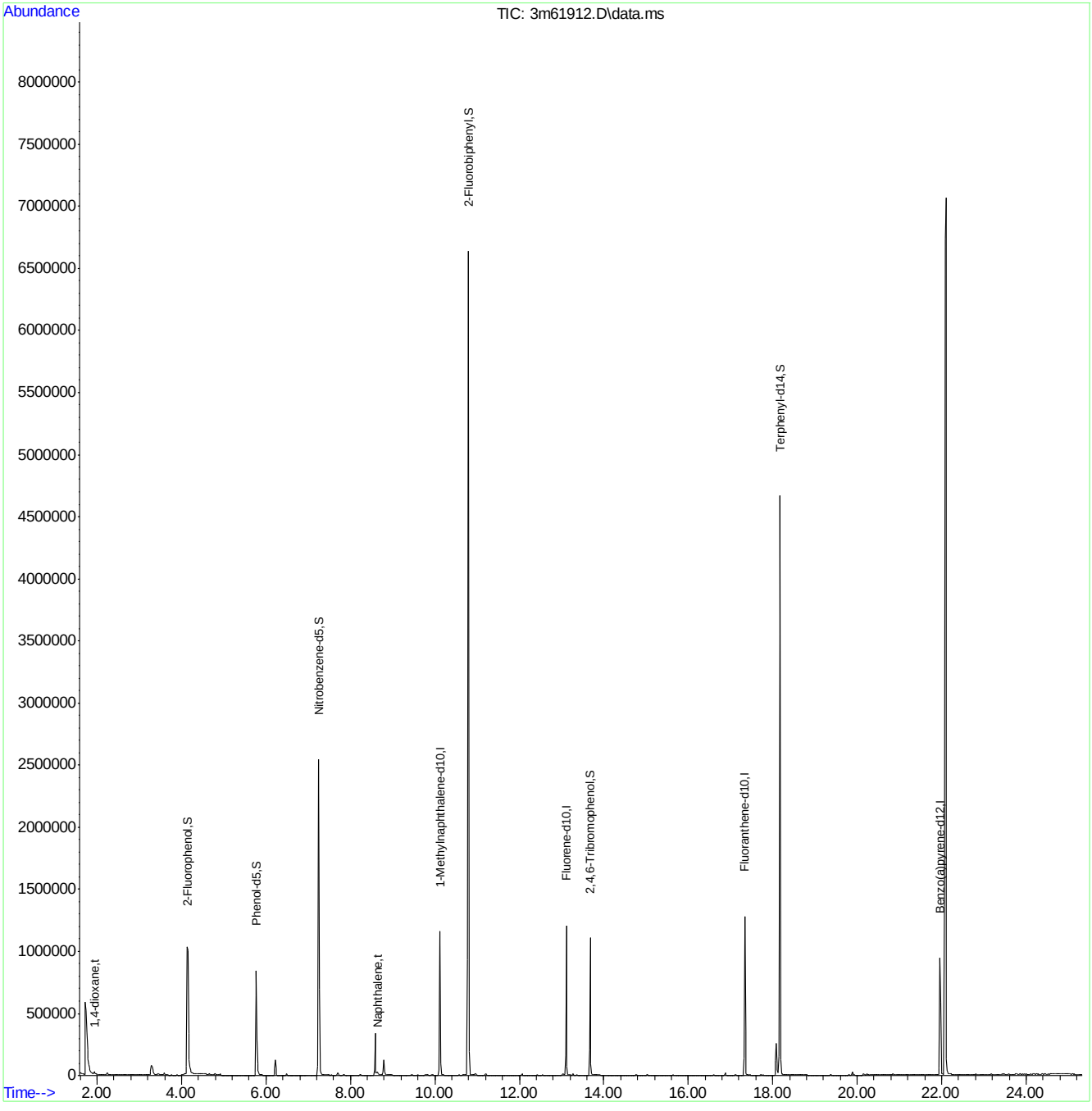
7

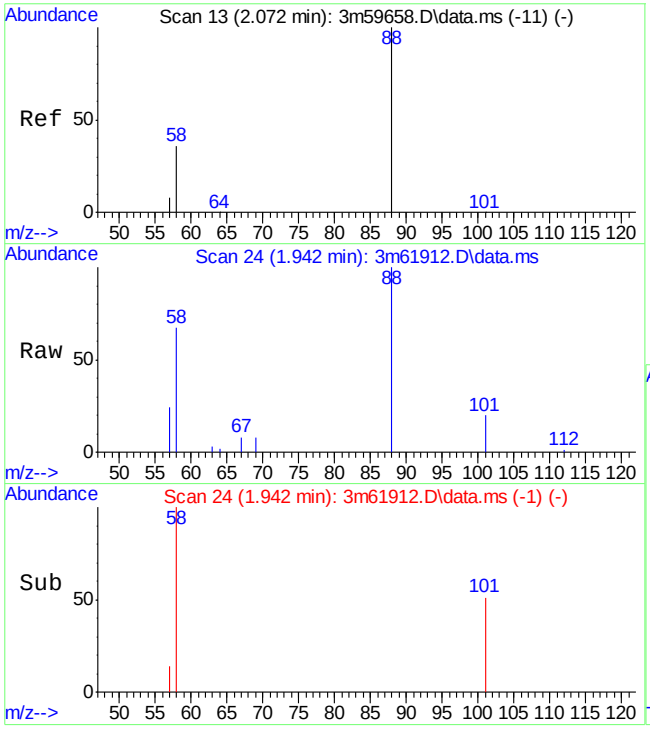
SGS ACCUTEST JC21347

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2918\
Data File : 3m61912.D
Acq On : 3 Jun 2016 9:31 am
Operator : ashleyd
Sample : jc21347-1
Misc : op94425a,e3m2918,950
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 03 12:36:55 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2887SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri Jun 03 08:51:03 2016
Response via : Initial Calibration

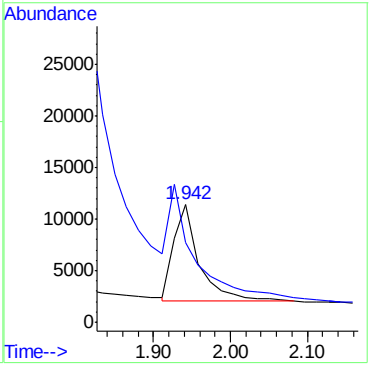


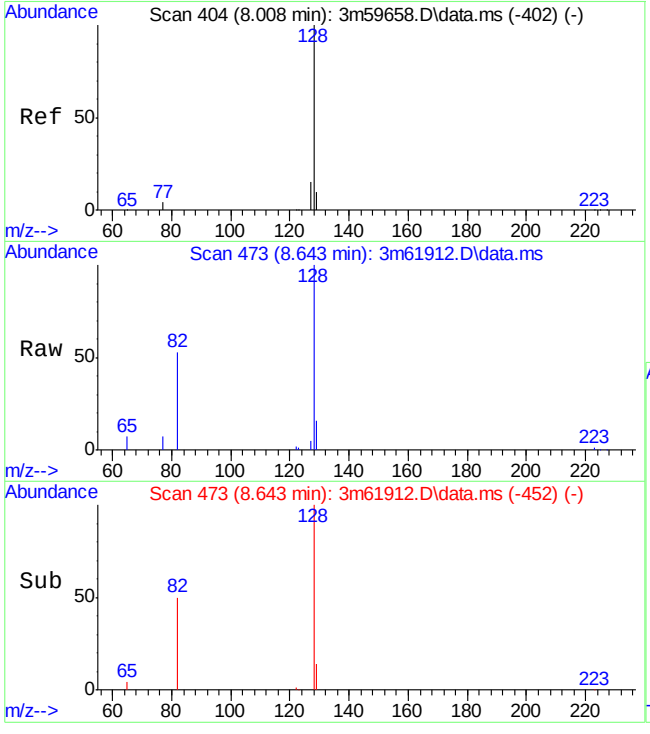


#2
1,4-dioxane
Concen: 0.61 ppm
RT: 1.942 min Scan# 24
Delta R.T. -0.046 min
Lab File: 3m61912.D
Acq: 3 Jun 2016 9:31 am

Tgt Ion: 88 Resp: 21398

Ion	Ratio	Lower	Upper
88	100		
58	34.3	17.9	57.9

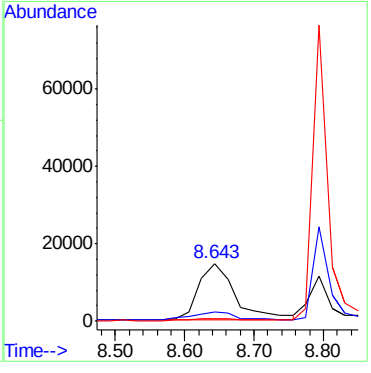




#9
Naphthalene
Concen: 0.15 ppm
RT: 8.643 min Scan# 473
Delta R.T. -0.096 min
Lab File: 3m61912.D
Acq: 3 Jun 2016 9:31 am

Tgt Ion:128 Resp: 53759

Ion	Ratio	Lower	Upper
128	100		
129	14.8	0.0	39.8
127	3.8	0.0	45.3



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2930\
Data File : 3m62165.D
Acq On : 11 Jun 2016 6:34 am
Operator : juliusj
Sample : jc21347-2
Misc : op94471a,e3m2930,30.1
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Jun 13 10:40:19 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2887SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu Jun 09 10:49:16 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	10.180	150	502631	4.00	ppm	0.06
14) Fluorene-d10	13.186	176	707711	4.00	ppm	0.08
21) Fluoranthene-d10	17.448	212	1122478	4.00	ppm	0.09
31) Benzo(a)pyrene-d12	22.084	264	1044712	4.00	ppm	0.11
System Monitoring Compounds						
3) 2-Fluorophenol	4.245	112	2997024	46.63	ppm	0.06
Spiked Amount 50.000			Recovery = 93.26%			
4) Phenol-d5	5.883	99	4400154	42.52	ppm	0.09
Spiked Amount 50.000			Recovery = 85.04%			
7) Nitrobenzene-d5	7.306	82	3572621	40.91	ppm	0.00
Spiked Amount 50.000			Recovery = 81.82%			
15) 2-Fluorobiphenyl	10.862	172	7972429	45.56	ppm	0.05
Spiked Amount 50.000			Recovery = 91.12%			
20) 2,4,6-Tribromophenol	13.770	330	746355	43.42	ppm	0.10
Spiked Amount 50.000			Recovery = 86.84%			
28) Terphenyl-d14	18.267	244	7706170	49.17	ppm	0.10
Spiked Amount 50.000			Recovery = 98.34%			

Target Compounds Qvalue

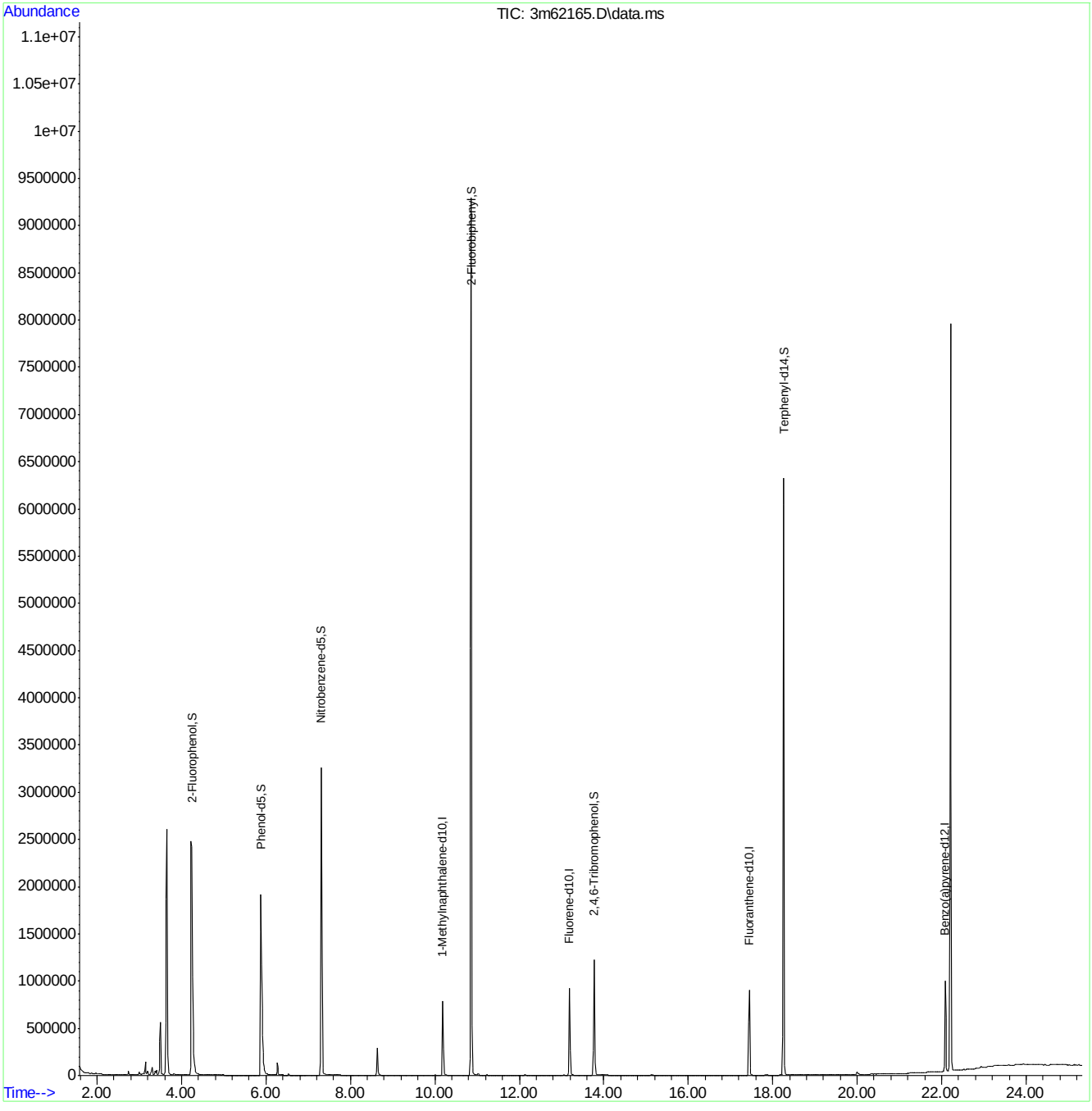
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC21347

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2930\
Data File : 3m62165.D
Acq On : 11 Jun 2016 6:34 am
Operator : juliusj
Sample : jc21347-2
Misc : op94471a,e3m2930,30.1
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Jun 13 10:40:19 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2887SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu Jun 09 10:49:16 2016
Response via : Initial Calibration



M3M2887SIM.M Mon Jun 13 10:40:23 2016 RPT1 Page: 2

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2918\
Data File : 3m61913.D
Acq On : 3 Jun 2016 10:04 am
Operator : ashleyd
Sample : jc21347-3
Misc : op94425a,e3m2918,900
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 03 12:37:25 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2887SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri Jun 03 08:51:03 2016
Response via : Initial Calibration

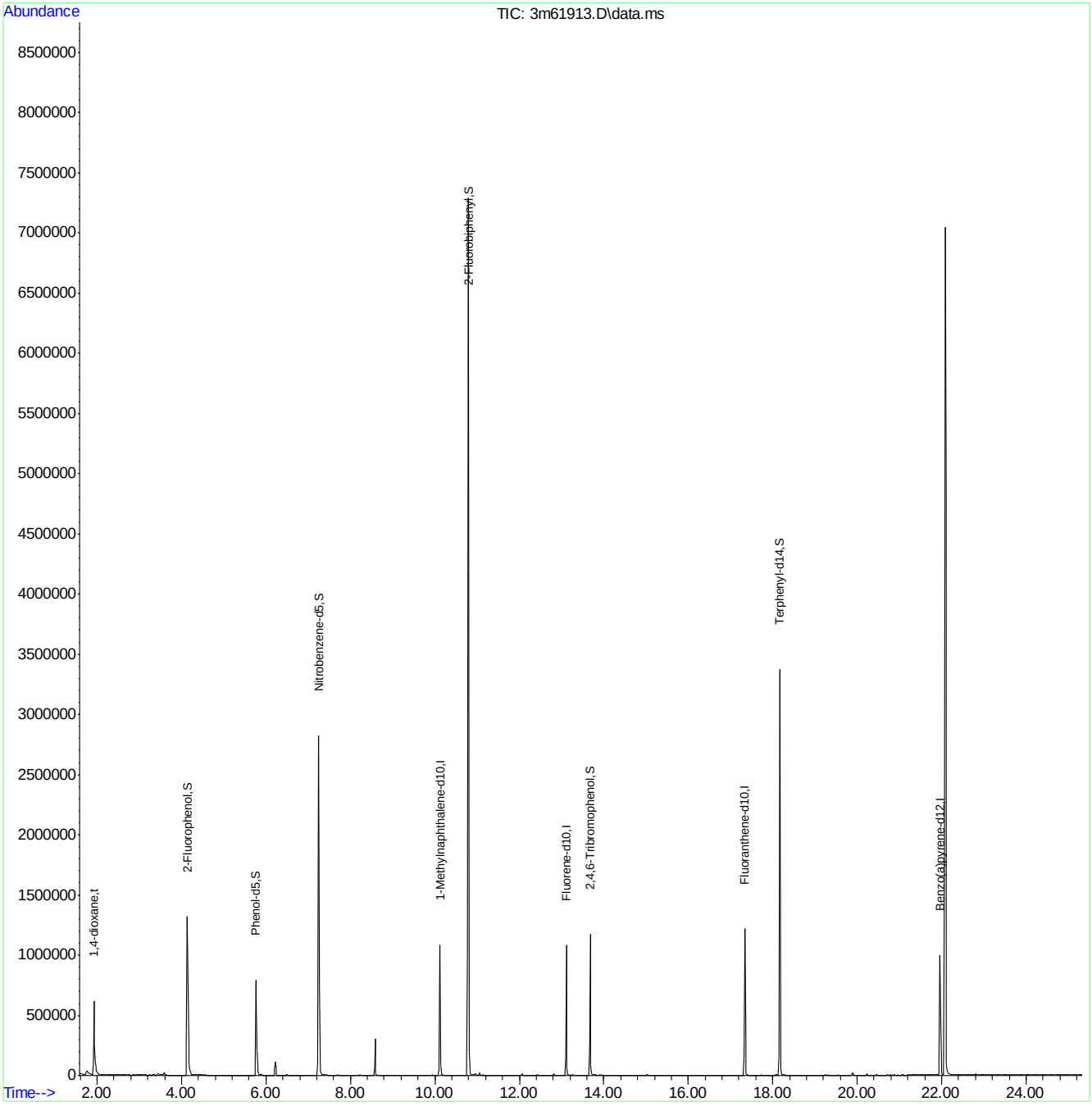
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	10.118	150	575947	4.00	ppm	-0.10
14) Fluorene-d10	13.111	176	771299	4.00	ppm	-0.11
21) Fluoranthene-d10	17.340	212	1227379	4.00	ppm	-0.02
31) Benzo(a)pyrene-d12	21.960	264	1017394	4.00	ppm	-0.02
System Monitoring Compounds						
3) 2-Fluorophenol	4.137	112	1242665	16.87	ppm	-0.09
Spiked Amount 50.000			Recovery = 33.74%			
4) Phenol-d5	5.762	99	1302642	10.99	ppm	-0.09
Spiked Amount 50.000			Recovery = 21.98%			
7) Nitrobenzene-d5	7.250	82	2870934	28.69	ppm	-0.12
Spiked Amount 50.000			Recovery = 57.38%			
15) 2-Fluorobiphenyl	10.795	172	5984610	31.38	ppm	-0.11
Spiked Amount 50.000			Recovery = 62.76%			
20) 2,4,6-Tribromophenol	13.676	330	687102	36.68	ppm	-0.11
Spiked Amount 50.000			Recovery = 73.36%			
28) Terphenyl-d14	18.159	244	4048973	23.63	ppm	-0.01
Spiked Amount 50.000			Recovery = 47.26%			
Target Compounds						Qvalue
2) 1,4-dioxane	1.927	88	644309	19.69	ppm	74

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

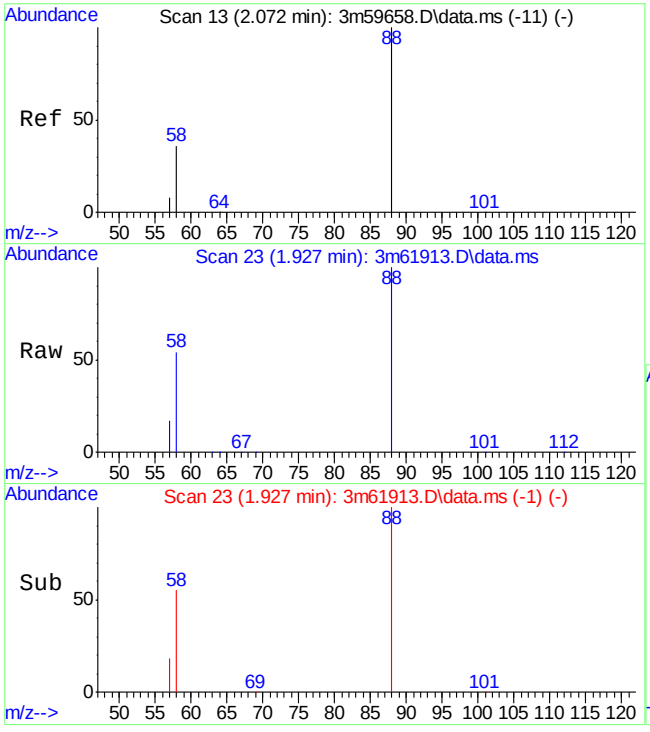
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2918\
Data File : 3m61913.D
Acq On : 3 Jun 2016 10:04 am
Operator : ashleyd
Sample : jc21347-3
Misc : op94425a,e3m2918,900
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 03 12:37:25 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2887SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri Jun 03 08:51:03 2016
Response via : Initial Calibration



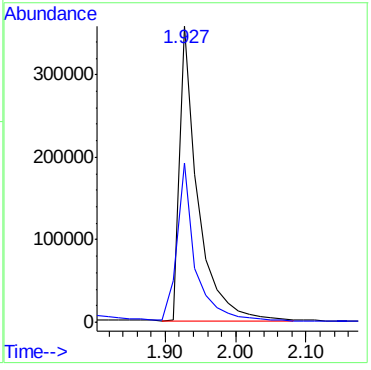
SGS ACCUTEST JC21347



#2
1,4-dioxane
Concen: 19.69 ppm
RT: 1.927 min Scan# 23
Delta R.T. -0.062 min
Lab File: 3m61913.D
Acq: 3 Jun 2016 10:04 am

Tgt Ion: 88 Resp: 644309

Ion	Ratio	Lower	Upper
88	100		
58	53.5	17.9	57.9



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6637\F157716.D Vial: 5
Acq On : 3 Jun 2016 12:19 am Operator: juliusj
Sample : op94425-mb1 Inst : MSF
Misc : op94425,ef6637,1000 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 03 00:41:50 2016 Quant Results File: MF6563.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Thu Jun 02 12:50:20 2016
Response via : Initial Calibration
DataAcq Meth : MF6563

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.55	152	387036	40.00	ppm	-0.01
24) Naphthalene-d8	5.47	136	1626922	40.00	ppm	-0.02
47) Acenaphthene-d10	6.84	164	945896	40.00	ppm	-0.02
69) Phenanthrene-d10	8.64	188	1508032	40.00	ppm	-0.03
83) Chrysene-d12	13.80	240	1377583	40.00	ppm	-0.04
92) Perylene-d12	16.83	264	1289154	40.00	ppm	-0.04
102) 1,4-Dichlorobenzene-d4b	4.55	152	387036	40.00	ppm	-0.01
104) Naphthalene-d8b	5.47	136	1626922	40.00	ppm	-0.02
106) Acenaphthene-d10b	6.84	164	945896	40.00	ppm	-0.02
108) Phenanthrene-d10b	8.64	188	1508032	40.00	ppm	-0.03
110) Chrysene-d12b	13.80	240	1374017	40.00	ppm	-0.04

System Monitoring Compounds

5) 2-Fluorophenol	3.57	112	247891	18.21	ppm	-0.04
Spiked Amount 50.000			Recovery = 36.42%			
8) Phenol-d5	4.31	99	204511	12.36	ppm	-0.01
Spiked Amount 50.000			Recovery = 24.72%			
25) Nitrobenzene-d5	4.96	82	600990	39.56	ppm	-0.02
Spiked Amount 50.000			Recovery = 79.12%			
51) 2-Fluorobiphenyl	6.26	172	998463	33.07	ppm	0.00
Spiked Amount 50.000			Recovery = 66.14%			
73) 2,4,6-Tribromophenol	7.69	330	150633	48.95	ppm	-0.02
Spiked Amount 50.000			Recovery = 97.90%			
85) Terphenyl-d14	11.62	244	1242811	44.42	ppm	-0.05
Spiked Amount 50.000			Recovery = 88.84%			

Target Compounds Qvalue

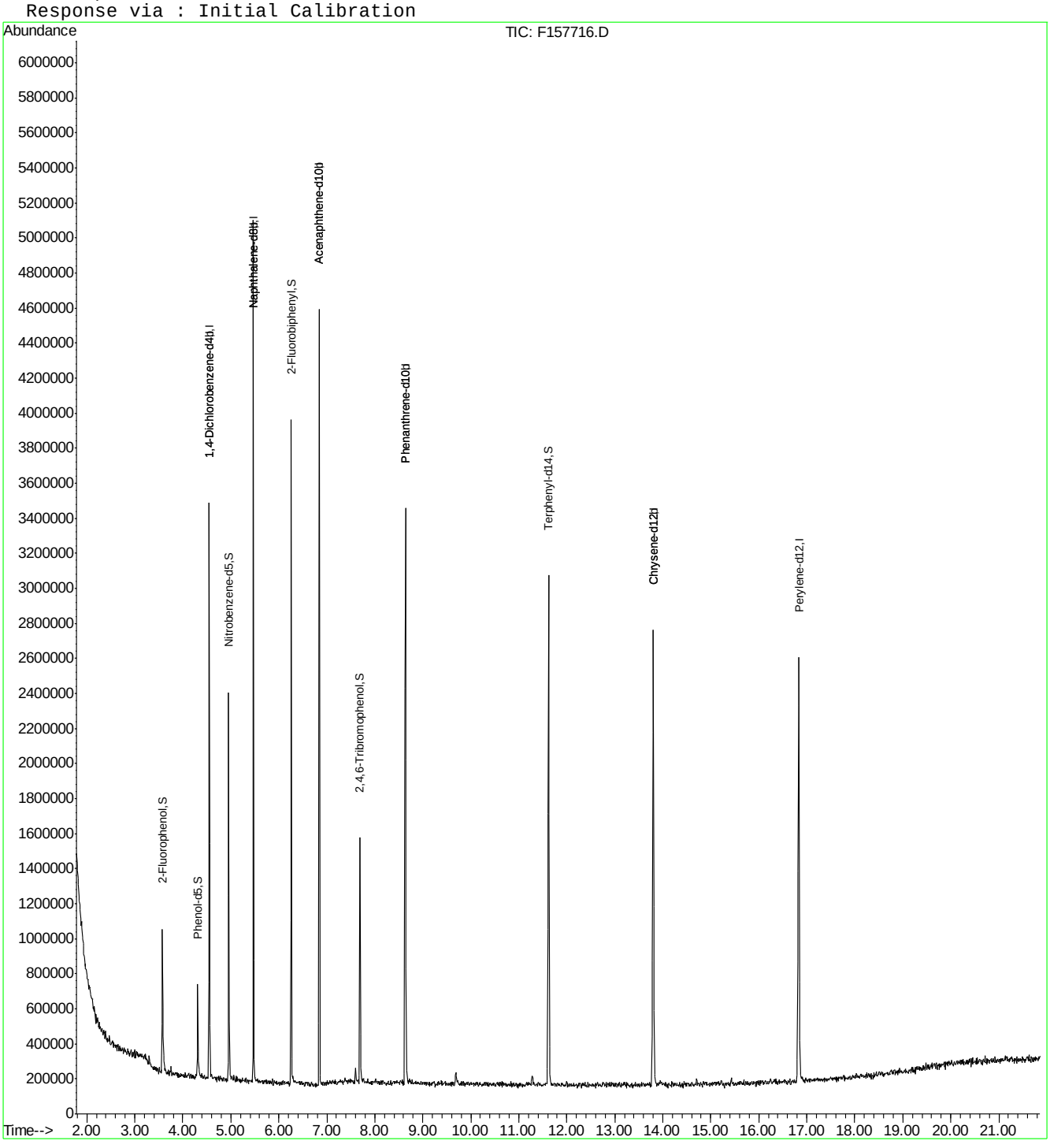
(#) = qualifier out of range (m) = manual integration (+) = signals summed
F157716.D MF6563.M Fri Jun 03 12:11:07 2016 RT1

SGS ACCUTEST JC21347

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6637\F157716.D Vial: 5
Acq On : 3 Jun 2016 12:19 am Operator: juliusj
Sample : op94425-mb1 Inst : MSF
Misc : op94425,ef6637,1000 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 3 12:11 2016 Quant Results File: MF6563.RES

Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Jun 03 11:39:27 2016
Response via : Initial Calibration



F157716.D MF6563.M Fri Jun 03 12:11:07 2016 RT1 Page 2

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P2614\
Data File : 2p59934.D
Acq On : 8 Jun 2016 11:01 am
Operator : robertl1
Sample : OP94471-MB1
Misc : op94471,e2p2614,30.0
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 09 16:02:22 2016
Quant Method : C:\MSDCHEM\1\METHODS\M2P2606.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri Jun 03 08:53:01 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.863	152	422318	40.00	ppm	-0.04
24) Naphthalene-d8	5.917	136	1540062	40.00	ppm	-0.05
47) Acenaphthene-d10	7.366	164	854549	40.00	ppm	-0.04
69) Phenanthrene-d10	8.703	188	1407731	40.00	ppm	-0.05
83) Chrysene-d12	12.073	240	1262030	40.00	ppm	-0.06
91) Perylene-d12	14.089	264	872767	40.00	ppm	-0.05
101) 1,4-Dichlorobenzene-d4a	4.863	152	422318	40.00	ppm	-0.04
103) Naphthalene-d8a	5.917	136	1540062	40.00	ppm	-0.04
105) Acenaphthene-d10a	7.366	164	854549	40.00	ppm	-0.04
108) Chrysene-d12a	12.073	240	1262030	40.00	ppm	-0.05
System Monitoring Compounds						
5) 2-Fluorophenol	3.772	112	518873	32.67	ppm	-0.02
Spiked Amount 50.000	Range 11 - 58		Recovery = 65.34%#			
8) Phenol-d5	4.579	99	644466	34.18	ppm	-0.02
Spiked Amount 50.000	Range 10 - 59		Recovery = 68.36%#			
25) Nitrobenzene-d5	5.323	82	539000	37.07	ppm	-0.05
Spiked Amount 50.000	Range 19 - 61		Recovery = 74.14%#			
51) 2-Fluorobiphenyl	6.810	172	1132254	39.01	ppm	-0.04
Spiked Amount 50.000	Range 21 - 58		Recovery = 78.02%#			
73) 2,4,6-Tribromophenol	8.040	330	152045	40.13	ppm	-0.04
Spiked Amount 50.000	Range 12 - 68		Recovery = 80.26%#			
85) Terphenyl-d14	10.613	244	1067065	40.53	ppm	-0.05
Spiked Amount 50.000	Range 16 - 65		Recovery = 81.06%#			

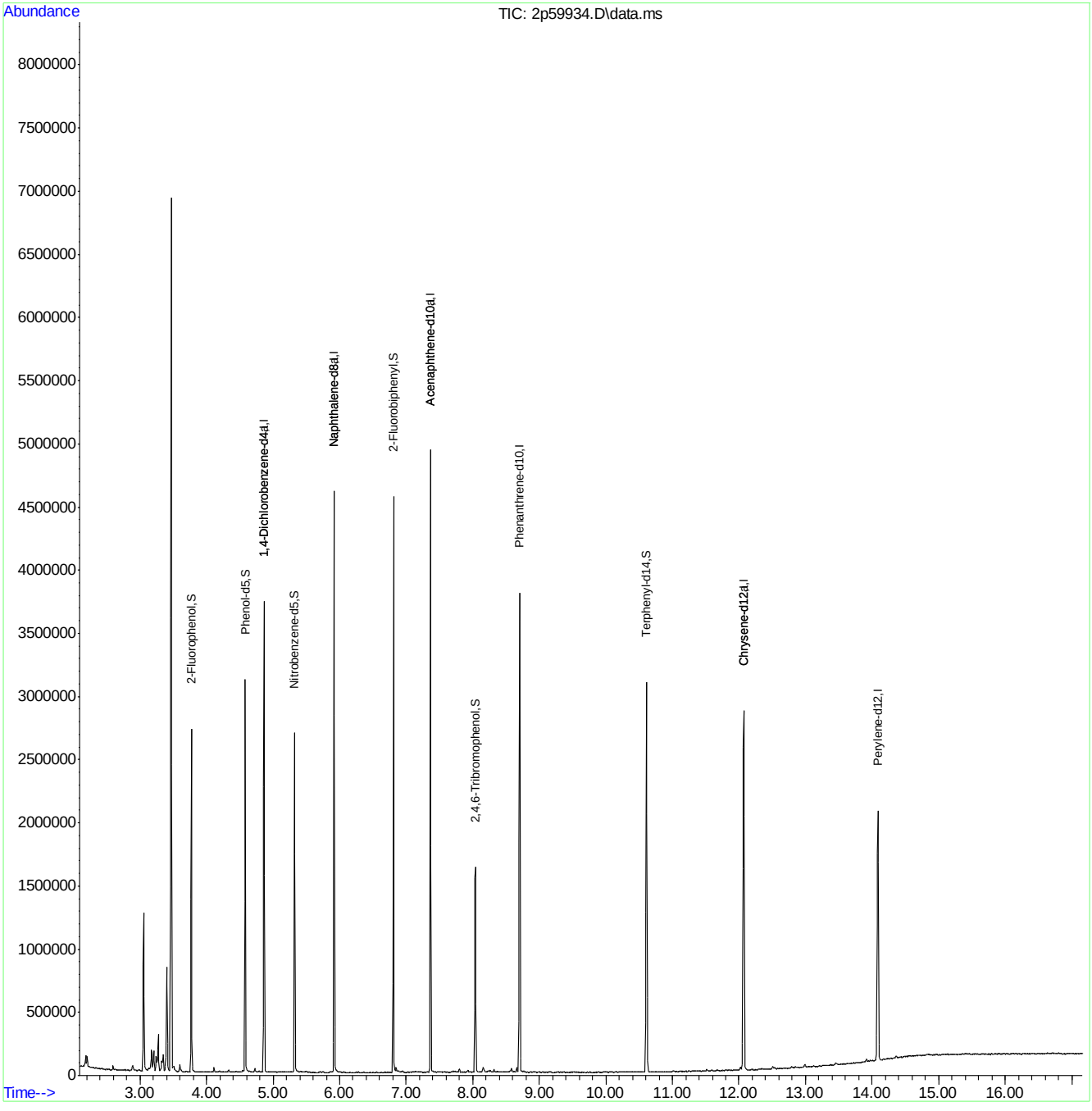
Target Compounds Qvalue

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P2614\
Data File : 2p59934.D
Acq On : 8 Jun 2016 11:01 am
Operator : robertl1
Sample : OP94471-MB1
Misc : op94471,e2p2614,30.0
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 09 16:02:22 2016
Quant Method : C:\MSDCHEM\1\METHODS\M2P2606.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri Jun 03 08:53:01 2016
Response via : Initial Calibration



SGS ACCUTEST JC21347

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2918\
Data File : 3m61910.D
Acq On : 3 Jun 2016 8:27 am
Operator : ashleyd
Sample : op94425a-mb1
Misc : op94425a,e3m2918,1000
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 03 12:35:05 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2887SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri Jun 03 08:51:03 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	10.118	150	566434	4.00	ppm	-0.10
14) Fluorene-d10	13.111	176	747327	4.00	ppm	-0.11
21) Fluoranthene-d10	17.340	212	1171554	4.00	ppm	-0.02
31) Benzo(a)pyrene-d12	21.960	264	983383	4.00	ppm	-0.02
System Monitoring Compounds						
3) 2-Fluorophenol	4.136	112	1155035	15.95	ppm	-0.09
Spiked Amount 50.000			Recovery = 31.90%			
4) Phenol-d5	5.774	99	1182936	10.14	ppm	-0.07
Spiked Amount 50.000			Recovery = 20.28%			
7) Nitrobenzene-d5	7.250	82	2838610	28.84	ppm	-0.12
Spiked Amount 50.000			Recovery = 57.68%			
15) 2-Fluorobiphenyl	10.795	172	6337818	34.30	ppm	-0.11
Spiked Amount 50.000			Recovery = 68.60%			
20) 2,4,6-Tribromophenol	13.676	330	745669	41.08	ppm	-0.11
Spiked Amount 50.000			Recovery = 82.16%			
28) Terphenyl-d14	18.175	244	8038223	49.14	ppm	0.00
Spiked Amount 50.000			Recovery = 98.28%			

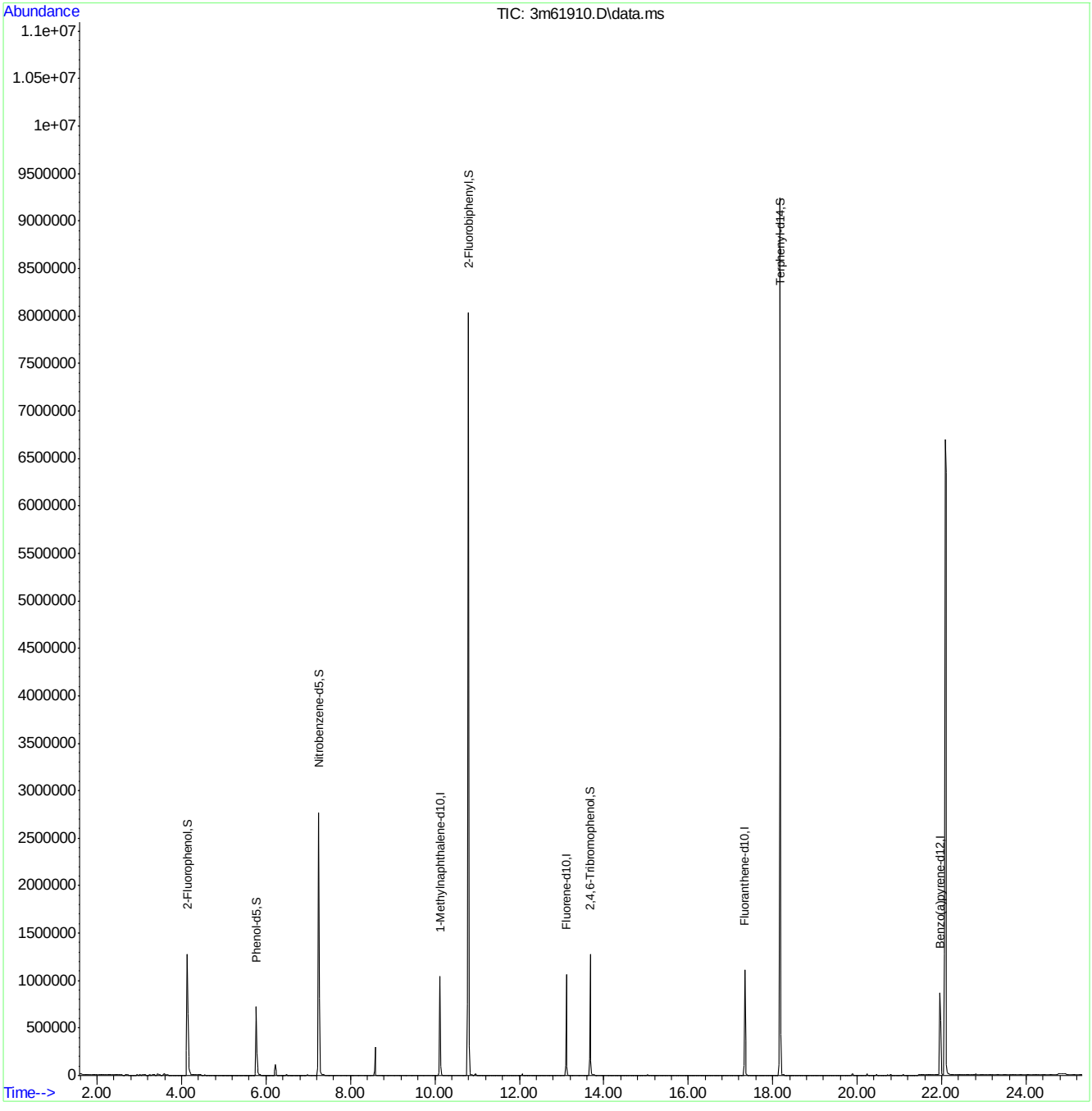
Target Compounds Qvalue

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2918\
Data File : 3m61910.D
Acq On : 3 Jun 2016 8:27 am
Operator : ashleyd
Sample : op94425a-mb1
Misc : op94425a,e3m2918,1000
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 03 12:35:05 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2887SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri Jun 03 08:51:03 2016
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2919\
Data File : 3m61938.D
Acq On : 3 Jun 2016 11:25 pm
Operator : linseyk
Sample : op94425a-mb1
Misc : op94425a,e3m2919,1000
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Jun 05 17:25:53 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2887SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri Jun 03 12:29:24 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	10.118	150	622690	4.00	ppm	-0.10
14) Fluorene-d10	13.111	176	872889	4.00	ppm	-0.11
21) Fluoranthene-d10	17.340	212	1377085	4.00	ppm	-0.02
31) Benzo(a)pyrene-d12	21.960	264	1096162	4.00	ppm	-0.02
System Monitoring Compounds						
3) 2-Fluorophenol	4.137	112	1371292	17.22	ppm	-0.09
Spiked Amount 50.000			Recovery = 34.44%			
4) Phenol-d5	5.750	99	1444799	11.27	ppm	-0.10
Spiked Amount 50.000			Recovery = 22.54%			
7) Nitrobenzene-d5	7.250	82	3832088	35.42	ppm	-0.12
Spiked Amount 50.000			Recovery = 70.84%			
15) 2-Fluorobiphenyl	10.795	172	7442996	34.48	ppm	-0.11
Spiked Amount 50.000			Recovery = 68.96%			
20) 2,4,6-Tribromophenol	13.676	330	828957	39.10	ppm	-0.11
Spiked Amount 50.000			Recovery = 78.20%			
28) Terphenyl-d14	18.159	244	9036985	47.00	ppm	-0.01
Spiked Amount 50.000			Recovery = 94.00%			

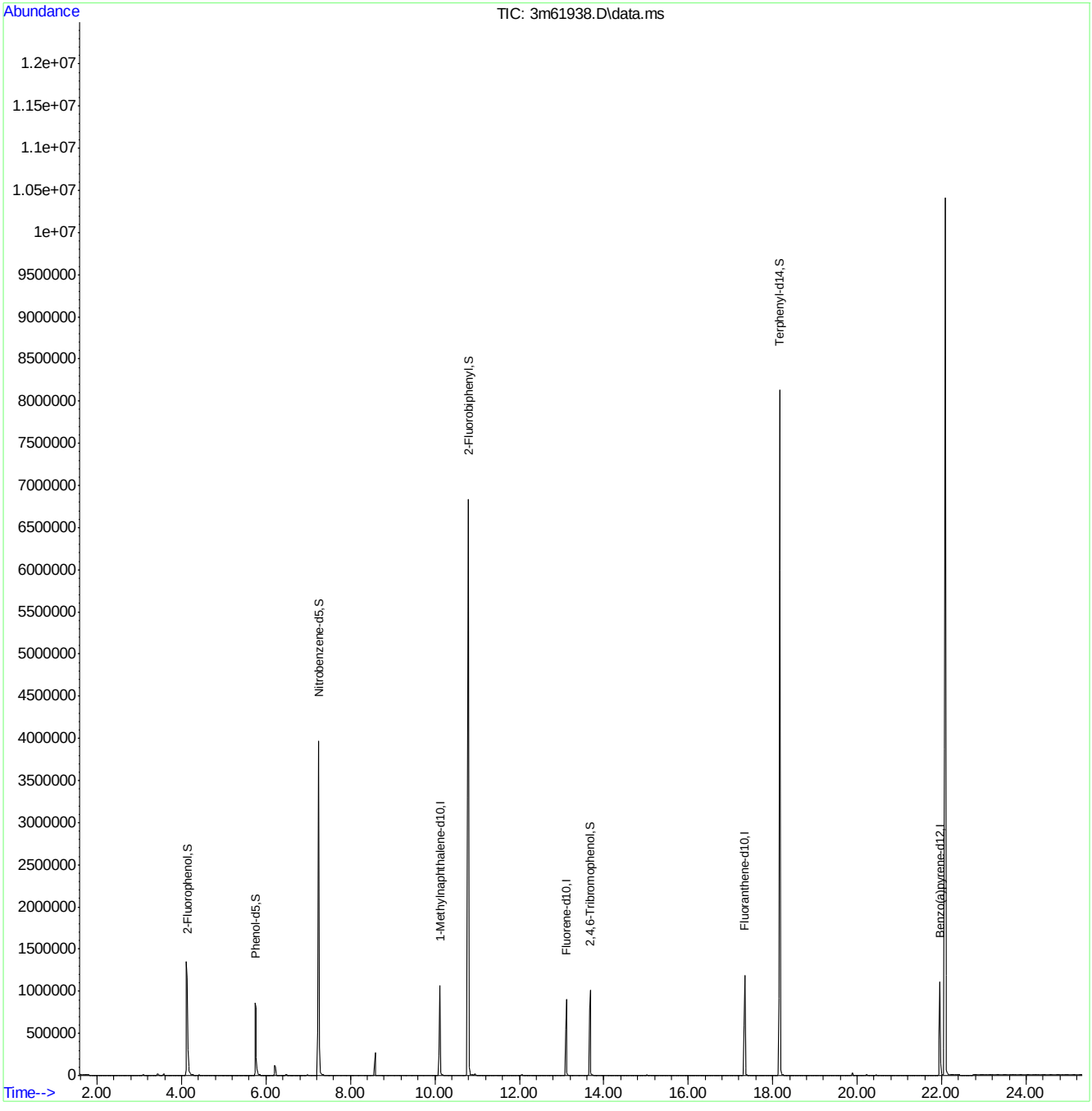
Target Compounds Qvalue

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2919\
Data File : 3m61938.D
Acq On : 3 Jun 2016 11:25 pm
Operator : linseyk
Sample : op94425a-mb1
Misc : op94425a,e3m2919,1000
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Jun 05 17:25:53 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2887SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri Jun 03 12:29:24 2016
Response via : Initial Calibration



M3M2887SIM.M Sun Jun 05 17:25:56 2016 RPT1 Page: 2

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2930\
Data File : 3m62161.D
Acq On : 11 Jun 2016 4:27 am
Operator : juliusj
Sample : op94471a-mb1
Misc : op94471a,e3m2930,30.0
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Jun 13 12:05:38 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2887SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu Jun 09 10:49:16 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	10.180	150	605657	4.00	ppm	0.06
14) Fluorene-d10	13.205	176	847178	4.00	ppm	0.09
21) Fluoranthene-d10	17.448	212	1380621	4.00	ppm	0.09
31) Benzo(a)pyrene-d12	22.099	264	1260453	4.00	ppm	0.12
System Monitoring Compounds						
3) 2-Fluorophenol	4.245	112	4171349	53.86	ppm	0.06
Spiked Amount 50.000			Recovery = 107.72%			
4) Phenol-d5	5.895	99	5701846	45.73	ppm	0.11
Spiked Amount 50.000			Recovery = 91.46%			
7) Nitrobenzene-d5	7.306	82	4359000	41.42	ppm	0.00
Spiked Amount 50.000			Recovery = 82.84%			
15) 2-Fluorobiphenyl	10.862	172	10327332	49.30	ppm	0.05
Spiked Amount 50.000			Recovery = 98.60%			
20) 2,4,6-Tribromophenol	13.770	330	945775	45.96	ppm	0.10
Spiked Amount 50.000			Recovery = 91.92%			
28) Terphenyl-d14	18.267	244	9826738	50.98	ppm	0.10
Spiked Amount 50.000			Recovery = 101.96%			

Target Compounds Qvalue

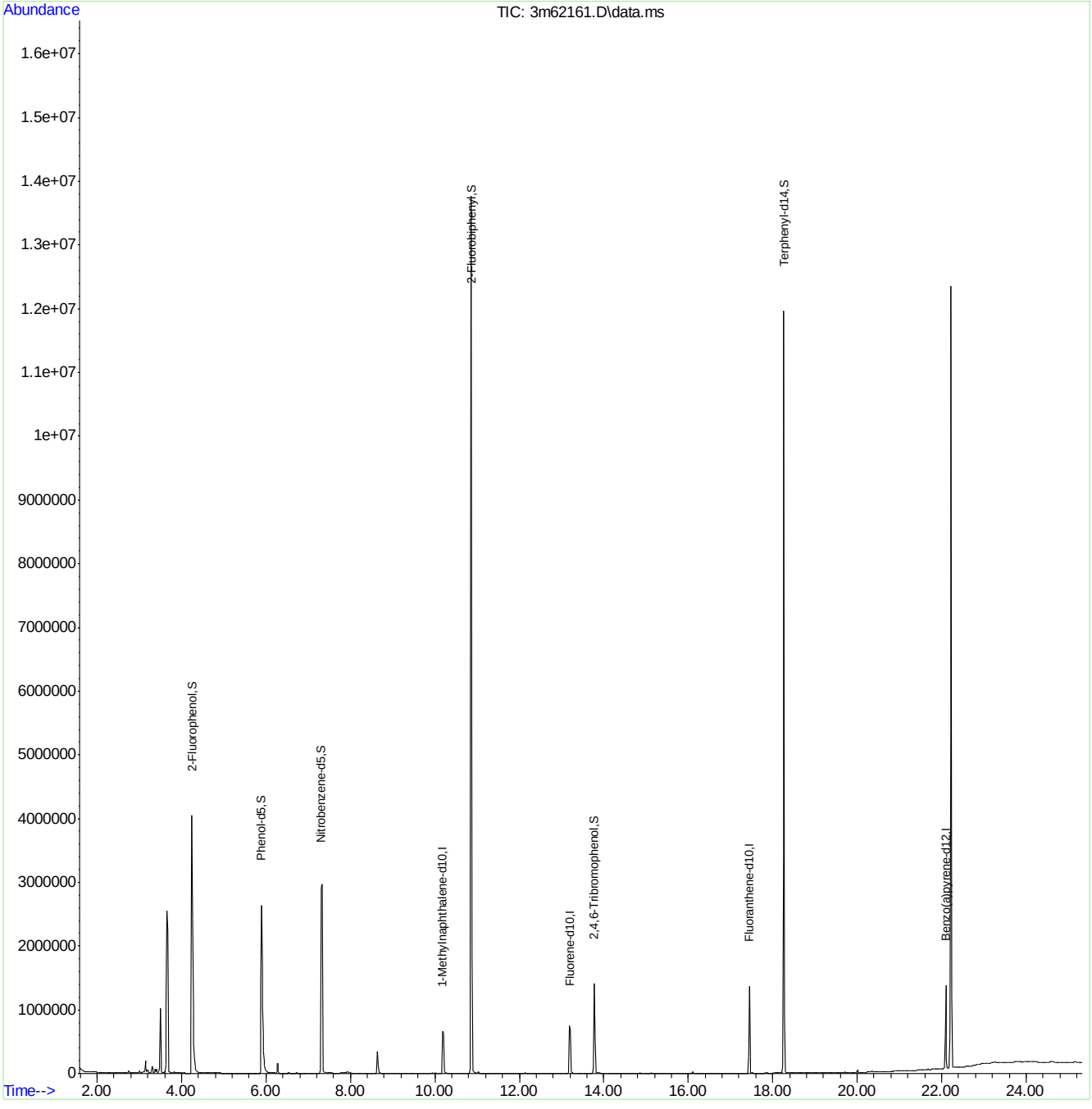
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC21347

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2930\
Data File : 3m62161.D
Acq On : 11 Jun 2016 4:27 am
Operator : juliusj
Sample : op94471a-mb1
Misc : op94471a,e3m2930,30.0
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Jun 13 12:05:38 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2887SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu Jun 09 10:49:16 2016
Response via : Initial Calibration



SGS ACCUTEST JC21347

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6637\F157717.D Vial: 6
Acq On : 3 Jun 2016 12:49 am Operator: juliusj
Sample : op94425-bs Inst : MSF
Misc : op94425,ef6637,1000 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 03 12:16:39 2016 Quant Results File: MF6563.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Jun 03 12:16:37 2016
Response via : Initial Calibration
DataAcq Meth : MF6563

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.55	152	416164	40.00	ppm	0.00
24) Naphthalene-d8	5.47	136	1843367	40.00	ppm	0.00
47) Acenaphthene-d10	6.84	164	973984	40.00	ppm	0.00
69) Phenanthrene-d10	8.64	188	1532661	40.00	ppm	0.00
83) Chrysene-d12	13.81	240	1413309	40.00	ppm	0.00
92) Perylene-d12	16.83	264	1268554	40.00	ppm	0.00
102) 1,4-Dichlorobenzene-d4b	4.55	152	416164	40.00	ppm	0.00
104) Naphthalene-d8b	5.47	136	1843367	40.00	ppm	0.00
106) Acenaphthene-d10b	6.84	164	973984	40.00	ppm	0.00
108) Phenanthrene-d10b	8.64	188	1532661	40.00	ppm	0.00
110) Chrysene-d12b	13.81	240	1413309	40.00	ppm	0.00

System Monitoring Compounds						
5) 2-Fluorophenol	3.58	112	275706	18.84	ppm	-0.03
Spiked Amount 50.000			Recovery = 37.68%			
8) Phenol-d5	4.31	99	269288	15.13	ppm	0.00
Spiked Amount 50.000			Recovery = 30.26%			
25) Nitrobenzene-d5	4.96	82	637981	37.06	ppm	0.00
Spiked Amount 50.000			Recovery = 74.12%			
51) 2-Fluorobiphenyl	6.26	172	1103354	35.49	ppm	0.00
Spiked Amount 50.000			Recovery = 70.98%			
73) 2,4,6-Tribromophenol	7.69	330	142976	45.71	ppm	0.00
Spiked Amount 50.000			Recovery = 91.42%			
85) Terphenyl-d14	11.62	244	1110446	38.69	ppm	-0.02
Spiked Amount 50.000			Recovery = 77.38%			

Target Compounds							Qvalue
2) 1,4-Dioxane	2.09	88	94985	14.74	ppm		99
3) Pyridine	2.42	79	228886	15.08	ppm		95
4) N-Nitrosodimethylamine	2.38	42	122021	22.34	ppm		98
6) Indene	4.74	116	890756	36.16	ppm		99
7) Cumene	3.95	105	1036292	31.32	ppm		93
9) Phenol	4.32	94	329783	17.41	ppm		86
10) Aniline	4.31	93	623108	30.05	ppm		87
11) bis(2-Chloroethyl)ether	4.36	93	499940	36.68	ppm		98
12) 2-Chlorophenol	4.40	128	470544	30.46	ppm		91
13) Decane	4.43	43	279611	21.04	ppm		95
14) 1,3-Dichlorobenzene	4.51	146	430876	25.15	ppm		98
15) 1,4-Dichlorobenzene	4.56	146	463373	27.10	ppm		97
16) Benzyl alcohol	4.66	108	302272	30.68	ppm		97
17) 1,2-Dichlorobenzene	4.68	146	445040	27.69	ppm		98
18) Acetophenone	4.85	105	784556	42.12	ppm		99
19) 2-Methylphenol	4.76	108	423945	32.04	ppm		82
20) 2,2'-oxybis(1-Chloropropan	4.76	121	144499	29.41	ppm	#	39
21) 3&4-Methylphenol	4.87	108	424621	31.29	ppm		93
22) n-Nitroso-di-n-propylamine	4.85	70	430771	42.84	ppm		96
23) Hexachloroethane	4.92	201	125365	23.67	ppm		94
26) Nitrobenzene	4.97	77	664875	36.88	ppm		82
27) Quinoline	5.73	129	1149930	32.28	ppm		96
28) Isophorone	5.15	82	1217893	39.55	ppm		95

(#) = qualifier out of range (m) = manual integration
F157717.D MF6563.M Fri Jun 03 12:17:16 2016 RT1

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6637\F157717.D Vial: 6
Acq On : 3 Jun 2016 12:49 am Operator: juliusj
Sample : op94425-bs Inst : MSF
Misc : op94425,ef6637,1000 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 03 12:16:39 2016 Quant Results File: MF6563.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Jun 03 12:16:37 2016
Response via : Initial Calibration
DataAcq Meth : MF6563

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
29)	2-Nitrophenol	5.20	139	267704	28.62	ppm		88
30)	2,4-Dimethylphenol	5.24	107	580402	39.39	ppm		98
31)	Benzoic acid	5.33	105	186839	15.17	ppm		93
32)	bis(2-Chloroethoxy)methane	5.30	93	603686	31.11	ppm		98
33)	2,4-Dichlorophenol	5.39	162	440553	29.94	ppm		96
34)	2,6-Dichlorophenol	5.54	162	431780	30.55	ppm		97
36)	1,2,4-Trichlorobenzene	5.43	180	359450	23.63	ppm		97
38)	Naphthalene	5.49	128	1489644	29.59	ppm		99
39)	4-Chloroaniline	5.54	127	549407	26.43	ppm		97
40)	2,3-Dichloroaniline	6.20	161	533623	31.13	ppm		93
41)	Caprolactam	5.79	55	61006	8.72	ppm		88
42)	Hexachlorobutadiene	5.57	225	168160	23.35	ppm		99
43)	4-Chloro-3-methylphenol	5.89	107	538860	37.34	ppm		96
44)	2-Methylnaphthalene	5.98	141	878441	30.95	ppm	#	69
45)	1-Methylnaphthalene	6.06	141	933562	31.95	ppm		98
46)	Dimethylnaphthalene	6.47	156	947353	32.00	ppm		96
48)	Hexachlorocyclopentadiene	6.10	237	288443	43.64	ppm		97
49)	2,4,6-Trichlorophenol	6.20	196	325128	39.34	ppm		99
50)	2,4,5-Trichlorophenol	6.24	196	309762	34.04	ppm		93
52)	2-Chloronaphthalene	6.36	162	920105	32.69	ppm		92
53)	Biphenyl	6.34	154	1312000	36.30	ppm		99
54)	2-Nitroaniline	6.45	65	408349	51.20	ppm		85
55)	Dimethylphthalate	6.60	163	1190725	37.81	ppm		98
56)	Acenaphthylene	6.71	152	1579105	34.61	ppm		99
57)	2,6-Dinitrotoluene	6.66	165	259362	38.10	ppm		100
58)	3-Nitroaniline	6.81	138	245013	28.75	ppm		95
59)	Acenaphthene	6.88	153	1008671	35.20	ppm		96
60)	2,4-Dinitrophenol	6.91	184	297350	74.85	ppm		92
61)	4-Nitrophenol	7.00	109	91705	22.91	ppm	#	70
62)	Dibenzofuran	7.04	168	1428144	36.52	ppm		96
63)	2,4-Dinitrotoluene	7.04	165	366347	39.71	ppm		85
64)	2,3,4,6-Tetrachlorophenol	7.18	232	245801	35.82	ppm		92
65)	Diethylphthalate	7.29	149	1213551	38.99	ppm		99
66)	Fluorene	7.41	166	1186415	39.43	ppm		99
67)	4-Chlorophenyl-phenylether	7.41	204	503166	37.95	ppm		99
68)	4-Nitroaniline	7.45	138	301261	35.01	ppm		96
70)	4,6-Dinitro-2-methylphenol	7.49	198	199459	41.20	ppm		88
71)	n-Nitrosodiphenylamine	7.55	169	817026	37.25	ppm		96
72)	1,2-Diphenylhydrazine	7.60	77	1523831	50.27	ppm		92
74)	4-Bromophenyl-phenylether	8.01	248	276461	37.50	ppm		89
75)	Hexachlorobenzene	8.09	284	288749	41.03	ppm		97
76)	Pentachlorophenol	8.38	266	170523	36.78	ppm		93
77)	Phenanthrene	8.68	178	1661729	37.69	ppm		99
78)	Anthracene	8.75	178	1627821	36.88	ppm		99
79)	Carbazole	9.03	167	1566484	37.86	ppm		99
80)	Di-n-butylphthalate	9.71	149	2077063	40.19	ppm		97
81)	Fluoranthene	10.75	202	1647856	37.69	ppm		97
82)	Octadecane	8.54	57	729780	40.68	ppm		91
84)	Pyrene	11.19	202	1722571	34.37	ppm		97

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6637\F157717.D Vial: 6
Acq On : 3 Jun 2016 12:49 am Operator: juliusj
Sample : op94425-bs Inst : MSF
Misc : op94425,ef6637,1000 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 03 12:16:39 2016 Quant Results File: MF6563.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Jun 03 12:16:37 2016
Response via : Initial Calibration
DataAcq Meth : MF6563

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
86)	Butylbenzylphthalate	12.79	149	875174	35.55	ppm	91
88)	Benzo[a]anthracene	13.79	228	1498570	35.01	ppm	97
89)	3,3'-Dichlorobenzidine	13.84	252	770929	51.70	ppm	98
90)	Chrysene	13.86	228	1492110	35.06	ppm	98
91)	bis(2-Ethylhexyl)phthalate	14.19	149	1249985	36.64	ppm	97
93)	Di-n-octylphthalate	15.64	149	2096444	37.72	ppm	100
94)	Benzo[b]fluoranthene	16.09	252	1493534	38.09	ppm	99
95)	Benzo[k]fluoranthene	16.15	252	1471467	38.35	ppm	100
96)	Benzo[a]pyrene	16.72	252	1278191	35.62	ppm	100
97)	Indeno[1,2,3-cd]pyrene	18.78	276	1241073	37.48	ppm	99
99)	Dibenz[a,h]anthracene	18.83	278	1276544	39.85	ppm	100
100)	7,12-Dimethylbenz(a)anthra	16.10	256	678683	44.33	ppm	100
101)	Benzo[g,h,i]perylene	19.20	276	1306346	36.50	ppm	100
103)	Benzaldehyde	4.23	105	404851	34.55	ppm	99
107)	1,2,4,5-Tetrachlorobenzene	6.11	216	398512	29.41	ppm	97
109)	Atrazine	8.27	200	323858	43.96	ppm	98
111)	Benzidine	11.11	184	747608	30.44	ppm	100

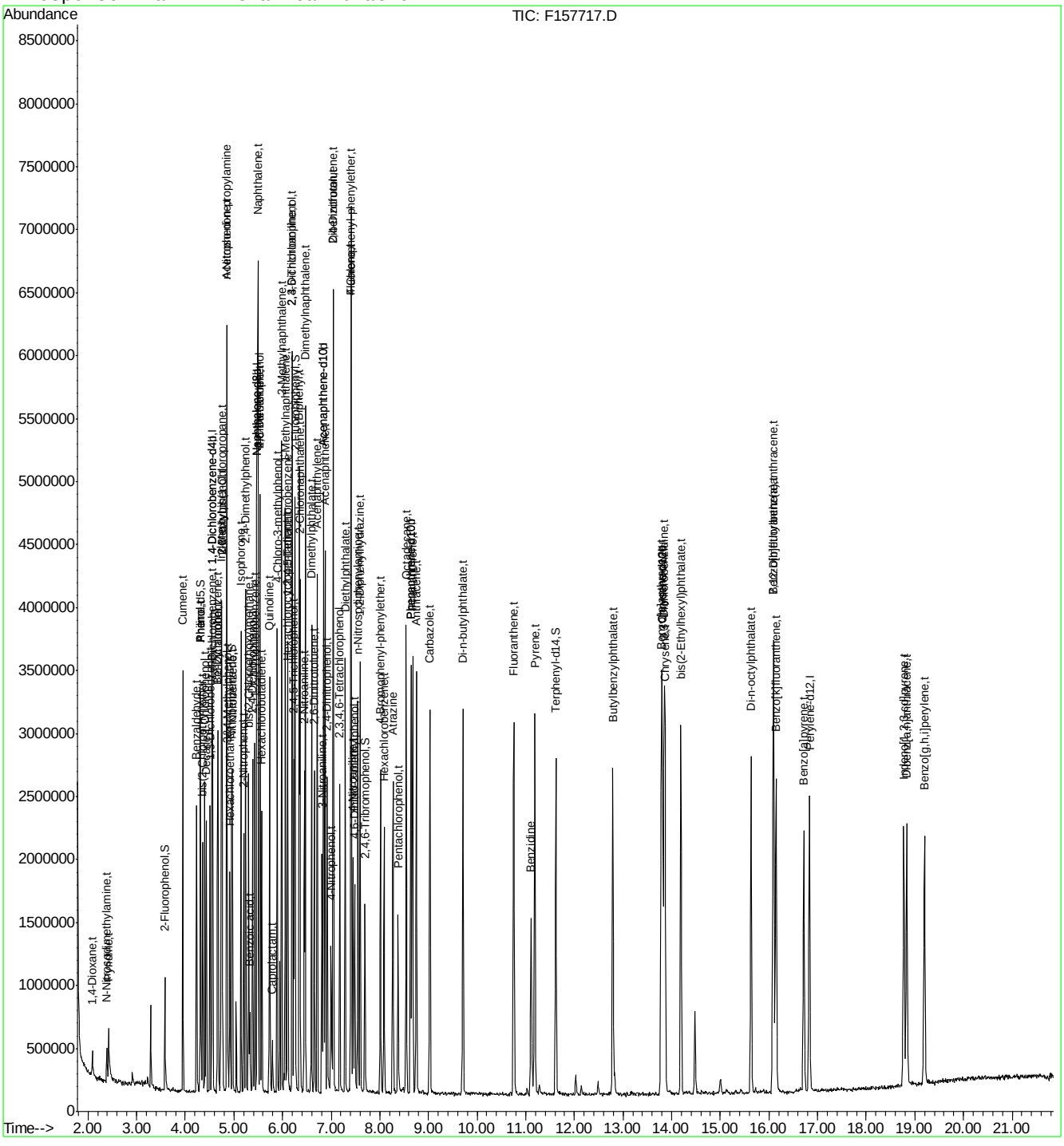
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC21347

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6637\F157717.D Vial: 6
Acq On : 3 Jun 2016 12:49 am Operator: juliusj
Sample : op94425-bs Inst : MSF
Misc : op94425,ef6637,1000 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 3 12:16 2016 Quant Results File: MF6563.RES

Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Jun 03 12:16:37 2016
Response via : Initial Calibration



SGS ACCUTEST JC21347

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P2614\
Data File : 2p59935.D
Acq On : 8 Jun 2016 11:22 am
Operator : robertl1
Sample : OP94471-BS1
Misc : op94471,e2p2614,30.0
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 09 16:03:49 2016
Quant Method : C:\MSDCHEM\1\METHODS\M2P2606.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri Jun 03 08:53:01 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.863	152	348569	40.00	ppm	-0.04
24) Naphthalene-d8	5.922	136	1198737	40.00	ppm	-0.04
47) Acenaphthene-d10	7.371	164	671201	40.00	ppm	-0.04
69) Phenanthrene-d10	8.714	188	1147813	40.00	ppm	-0.04
83) Chrysene-d12	12.084	240	1061939	40.00	ppm	-0.05
91) Perylene-d12	14.095	264	849605	40.00	ppm	-0.05
101) 1,4-Dichlorobenzene-d4a	4.863	152	348569	40.00	ppm	-0.04
103) Naphthalene-d8a	5.922	136	1198737	40.00	ppm	-0.04
105) Acenaphthene-d10a	7.371	164	671201	40.00	ppm	-0.04
108) Chrysene-d12a	12.084	240	1061939	40.00	ppm	-0.04
System Monitoring Compounds						
5) 2-Fluorophenol	3.772	112	502350	38.32	ppm	-0.02
Spiked Amount 50.000	Range 11 - 58		Recovery = 76.64%#			
8) Phenol-d5	4.585	99	567978	36.49	ppm	-0.02
Spiked Amount 50.000	Range 10 - 59		Recovery = 72.98%#			
25) Nitrobenzene-d5	5.328	82	432499	38.22	ppm	-0.04
Spiked Amount 50.000	Range 19 - 61		Recovery = 76.44%#			
51) 2-Fluorobiphenyl	6.815	172	852287	37.39	ppm	-0.04
Spiked Amount 50.000	Range 21 - 58		Recovery = 74.78%#			
73) 2,4,6-Tribromophenol	8.045	330	131445	42.55	ppm	-0.04
Spiked Amount 50.000	Range 12 - 68		Recovery = 85.10%#			
85) Terphenyl-d14	10.618	244	995250	44.92	ppm	-0.05
Spiked Amount 50.000	Range 16 - 65		Recovery = 89.84%#			
Target Compounds						Qvalue
2) 1,4-Dioxane	2.205	88	153509	26.01	ppm	94
3) Pyridine	2.531	79	406697	29.71	ppm	69
4) N-Nitrosodimethylamine	2.499	74	297394	38.16	ppm #	7
6) Indene	5.077	116	749139	39.74	ppm	100
7) Cumene	4.189	105	1035365	34.89	ppm	98
9) Phenol	4.596	94	578376	35.18	ppm	68
10) Aniline	4.590	93	450412	23.89	ppm #	32
11) bis(2-Chloroethyl)ether	4.649	93	408995	38.34	ppm	90
12) 2-Chlorophenol	4.697	128	491622	37.78	ppm	88
13) Decane	4.729	57	602296	34.01	ppm	81
14) 1,3-Dichlorobenzene	4.815	146	526293	35.68	ppm	99
15) 1,4-Dichlorobenzene	4.879	146	522525	36.87	ppm	98
16) Benzyl alcohol	4.986	108	298395	40.70	ppm	96
17) 1,2-Dichlorobenzene	5.002	146	487707	37.04	ppm	96
18) Acetophenone	5.200	105	539382	38.34	ppm	88
19) 2-Methylphenol	5.093	108	371087	36.61	ppm	94
20) 2,2'-oxybis(1-Chloropr...	5.098	121	117187	32.63	ppm #	52
21) 3&4-Methylphenol	5.216	108	392968	37.16	ppm	95
22) n-Nitroso-di-n-propyla...	5.205	70	251395	35.70	ppm #	63
23) Hexachloroethane	5.280	201	175458	37.01	ppm	84
26) Nitrobenzene	5.344	77	399066	37.13	ppm	93
27) Quinoline	6.216	129	868635	38.22	ppm	96
28) Isophorone	5.542	82	777221	39.01	ppm	83

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P2614\
Data File : 2p59935.D
Acq On : 8 Jun 2016 11:22 am
Operator : robertl1
Sample : OP94471-BS1
Misc : op94471,e2p2614,30.0
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 09 16:03:49 2016
Quant Method : C:\MSDCHEM\1\METHODS\M2P2606.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri Jun 03 08:53:01 2016
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
29)	2-Nitrophenol	5.606	139	259282	41.80	ppm		95
30)	2,4-Dimethylphenol	5.655	107	397012	36.64	ppm		98
31)	Benzoic acid	5.756	105	268376	34.36	ppm		95
32)	bis(2-Chloroethoxy)met...	5.724	93	441588	38.35	ppm		98
33)	2,4-Dichlorophenol	5.815	162	393225	39.41	ppm		94
34)	2,6-Dichlorophenol	5.997	162	344863	37.85	ppm		98
36)	1,2,4-Trichlorobenzene	5.874	180	399542	37.79	ppm		94
38)	Naphthalene	5.938	128	1180359	37.45	ppm		99
39)	4-Chloroaniline	5.991	127	284343	21.35	ppm		96
40)	2,3-Dichloroaniline	6.746	161	381671	32.53	ppm		95
41)	Caprolactam	6.291	113	141188	38.73	ppm	#	77
42)	Hexachlorobutadiene	6.034	225	221711	38.77	ppm		96
43)	4-Chloro-3-methylphenol	6.403	107	371623	38.85	ppm		92
44)	2-Methylnaphthalene	6.510	141	681128	36.72	ppm		95
45)	1-Methylnaphthalene	6.591	141	708229	37.23	ppm		95
46)	Dimethylnaphthalene	7.024	156	709028	36.84	ppm		97
48)	Hexachlorocyclopentadiene	6.639	237	436567	68.41	ppm		94
49)	2,4,6-Trichlorophenol	6.751	196	259492	38.50	ppm		98
50)	2,4,5-Trichlorophenol	6.788	196	267128	36.80	ppm		96
52)	2-Chloronaphthalene	6.911	162	729129	36.48	ppm		98
53)	Biphenyl	6.895	154	939847	36.24	ppm		95
54)	2-Nitroaniline	7.002	65	254553	40.29	ppm		87
55)	Dimethylphthalate	7.147	163	856478	37.97	ppm		99
56)	Acenaphthylene	7.254	152	1218181	36.76	ppm		100
57)	2,6-Dinitrotoluene	7.200	165	201983	40.78	ppm		85
58)	3-Nitroaniline	7.339	138	173176	27.53	ppm		89
59)	Acenaphthene	7.398	153	751434	38.38	ppm		97
60)	2,4-Dinitrophenol	7.430	184	237960	82.94	ppm	#	100
61)	4-Nitrophenol	7.500	109	115144	40.60	ppm		96
62)	Dibenzofuran	7.543	168	982298	36.69	ppm		97
63)	2,4-Dinitrotoluene	7.532	165	252533	39.73	ppm		81
64)	2,3,4,6-Tetrachlorophenol	7.644	232	229946	37.61	ppm		94
65)	Diethylphthalate	7.735	149	849668	39.01	ppm		93
66)	Fluorene	7.831	166	818459	37.65	ppm		97
67)	4-Chlorophenyl-phenyle...	7.826	204	383947	38.01	ppm		99
68)	4-Nitroaniline	7.858	138	240350	38.71	ppm		90
70)	4,6-Dinitro-2-methylph...	7.880	198	165429	45.46	ppm		89
71)	n-Nitrosodiphenylamine	7.933	169	628068	40.43	ppm		98
72)	1,2-Diphenylhydrazine	7.970	77	748348	37.50	ppm		82
74)	4-Bromophenyl-phenylether	8.270	248	265581	40.65	ppm		92
75)	Hexachlorobenzene	8.323	284	273737	38.35	ppm		88
76)	Pentachlorophenol	8.521	266	165653	34.81	ppm		97
77)	Phenanthrene	8.735	178	1215431	38.34	ppm		99
78)	Anthracene	8.789	178	1223956	38.66	ppm		99
79)	Carbazole	8.965	167	1236533	39.53	ppm		97
80)	Di-n-butylphthalate	9.356	149	1617778	42.18	ppm		99
81)	Fluoranthene	10.099	202	1569668	41.37	ppm		92
82)	Octadecane	8.596	43	712918	42.62	ppm	#	70
84)	Pyrene	10.388	202	1606187	44.51	ppm		98
86)	Butylbenzylphthalate	11.329	149	721214	44.70	ppm		91

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P2614\
Data File : 2p59935.D
Acq On : 8 Jun 2016 11:22 am
Operator : robertl1
Sample : OP94471-BS1
Misc : op94471,e2p2614,30.0
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 09 16:03:49 2016
Quant Method : C:\MSDCHEM\1\METHODS\M2P2606.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri Jun 03 08:53:01 2016
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
87)	Benzo[a]anthracene	12.068	228	1287569	39.48	ppm	99
88)	3,3'-Dichlorobenzidine	12.068	252	668552	57.03	ppm	95
89)	Chrysene	12.121	228	1192831	39.95	ppm	99
90)	bis(2-Ethylhexyl)phtha...	12.207	149	863256	44.45	ppm	99
92)	Di-n-octylphthalate	13.159	149	1500116	47.50	ppm	95
93)	Benzo[b]fluoranthene	13.592	252	1143902	40.30	ppm	92
94)	Benzo[k]fluoranthene	13.635	252	1028738	41.78	ppm	88
95)	Benzo[a]pyrene	14.020	252	1013367	40.53	ppm	92
96)	Indeno[1,2,3-cd]pyrene	15.624	276	869123	38.18	ppm	81
98)	Dibenz[a,h]anthracene	15.667	278	857735	38.02	ppm	89
99)	7,12-Dimethylbenz(a)an...	13.592	256	525686	42.18	ppm	93
100)	Benzo[g,h,i]perylene	16.063	276	880578	36.57	ppm	86
102)	Benzaldehyde	4.499	105	364213	42.69	ppm	91
106)	Atrazine	8.436	215	132115	45.00	ppm	89
107)	1,2,4,5-Tetrachloroben...	6.649	216	403909	40.52	ppm	97
109)	Benzidine	10.292	184	461050	42.49	ppm	97

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

7.3.2

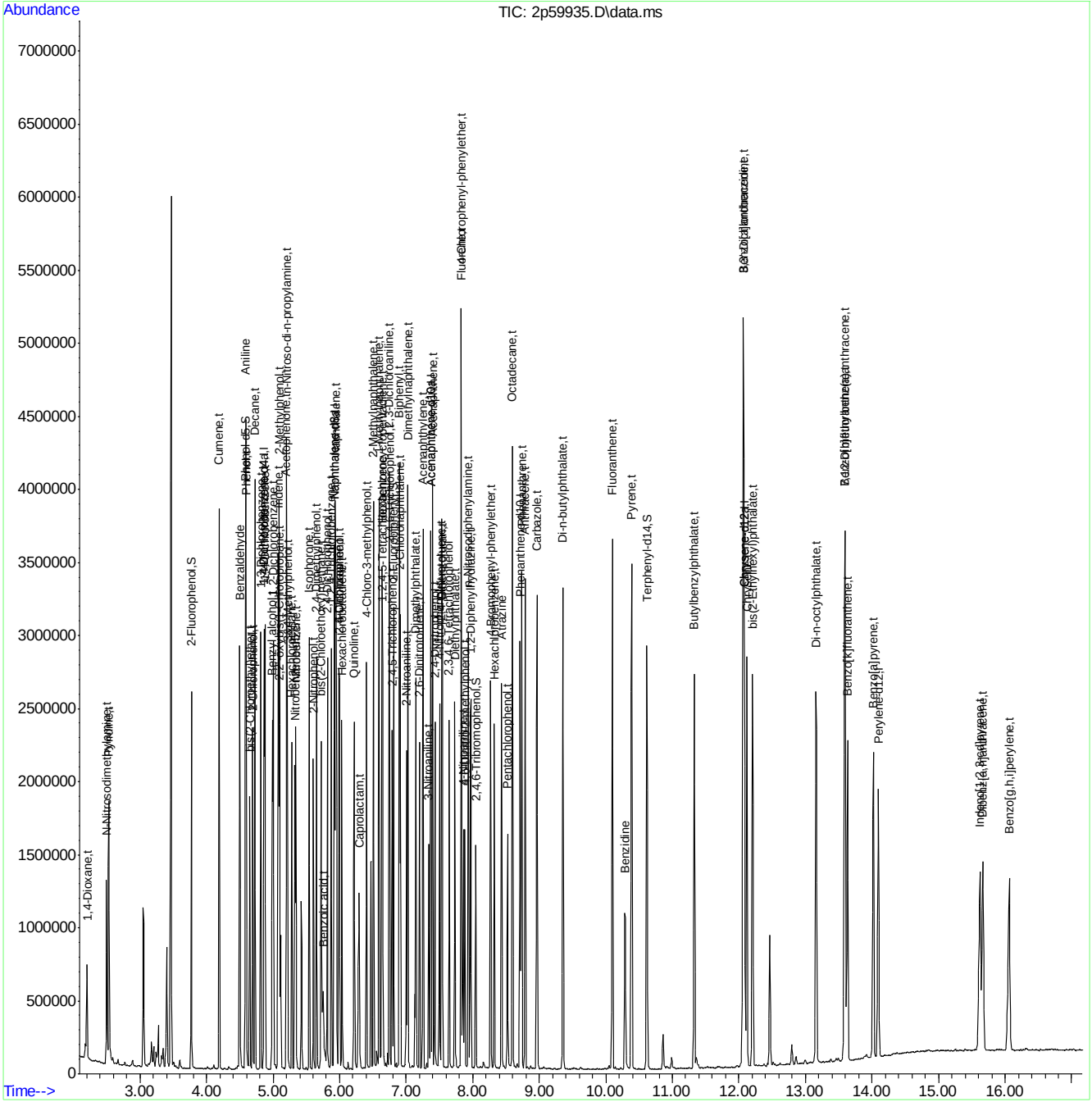
7

SGS ACCUTEST JC21347

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P2614\
Data File : 2p59935.D
Acq On : 8 Jun 2016 11:22 am
Operator : robertl1
Sample : OP94471-BS1
Misc : op94471,e2p2614,30.0
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 09 16:03:49 2016
Quant Method : C:\MSDCHEM\1\METHODS\M2P2606.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri Jun 03 08:53:01 2016
Response via : Initial Calibration



SGS ACCUTEST JC21347

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2918\
Data File : 3m61911.D
Acq On : 3 Jun 2016 8:59 am
Operator : ashleyd
Sample : op94425a-bs12
Misc : op94425a,e3m2918,1000
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 03 12:35:49 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2887SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri Jun 03 12:29:24 2016
Response via : Initial Calibration

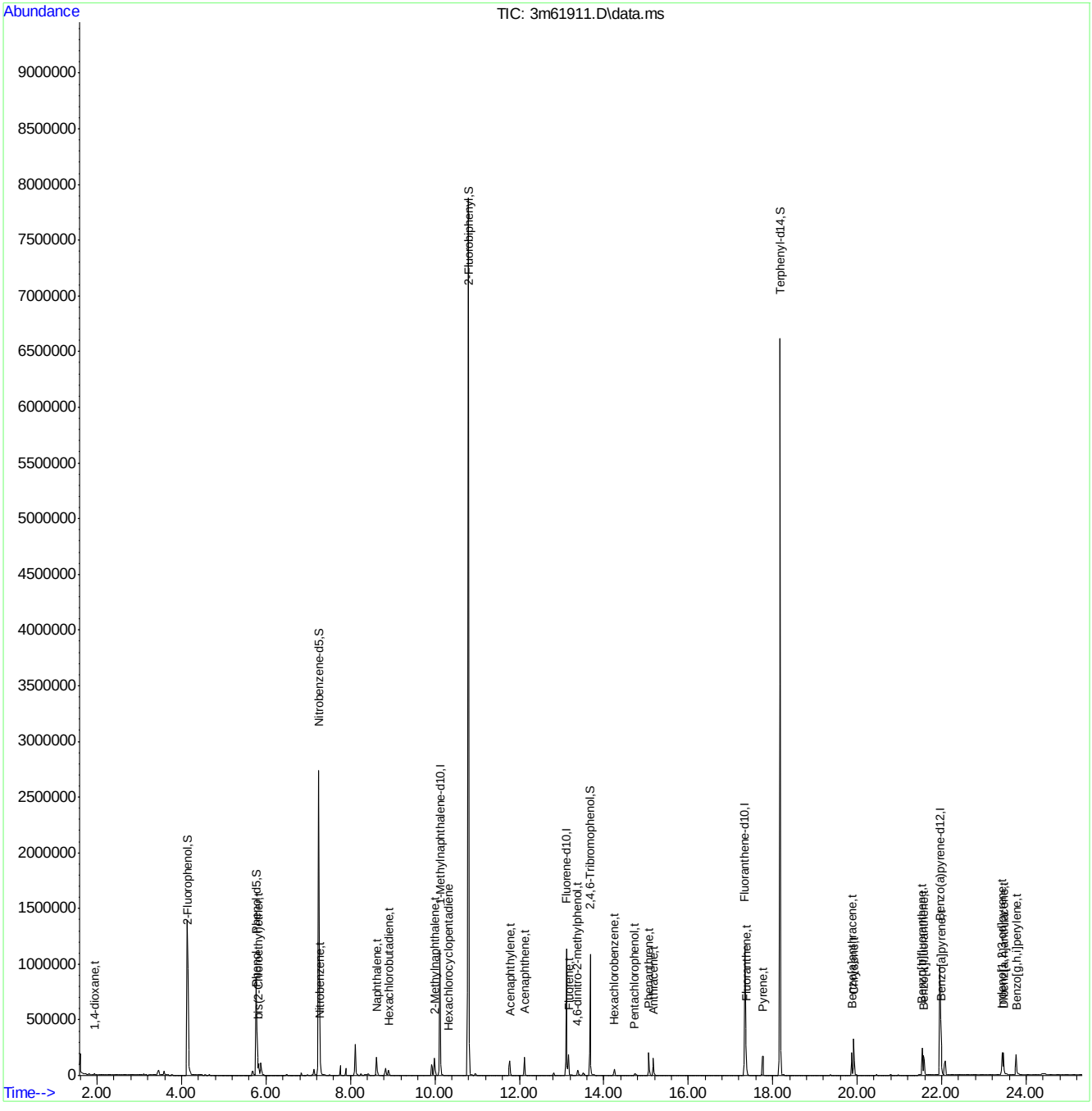
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	10.118	150	607603	4.00	ppm	-0.10
14) Fluorene-d10	13.111	176	794639	4.00	ppm	-0.11
21) Fluoranthene-d10	17.340	212	1206092	4.00	ppm	-0.02
31) Benzo(a)pyrene-d12	21.960	264	1016414	4.00	ppm	-0.02
System Monitoring Compounds						
3) 2-Fluorophenol	4.152	112	1261098	16.23	ppm	-0.08
Spiked Amount 50.000			Recovery = 32.46%			
4) Phenol-d5	5.774	99	1338841	10.70	ppm	-0.07
Spiked Amount 50.000			Recovery = 21.40%			
7) Nitrobenzene-d5	7.250	82	2812427	26.64	ppm	-0.12
Spiked Amount 50.000			Recovery = 53.28%			
15) 2-Fluorobiphenyl	10.795	172	6261046	31.86	ppm	-0.11
Spiked Amount 50.000			Recovery = 63.72%			
20) 2,4,6-Tribromophenol	13.676	330	634470	32.87	ppm	-0.11
Spiked Amount 50.000			Recovery = 65.74%			
28) Terphenyl-d14	18.175	244	6299986	37.41	ppm	0.00
Spiked Amount 50.000			Recovery = 74.82%			
Target Compounds						Qvalue
2) 1,4-dioxane	1.942	88	8796	0.25	ppm	75
5) Phenol	5.786	94	163637	1.25	ppm #	80
6) bis(2-Chloroethyl)ether	5.823	93	55492	0.59	ppm #	55
8) Nitrobenzene	7.287	77	59611	0.55	ppm	67
9) Naphthalene	8.624	128	186125	0.54	ppm	100
10) Hexachlorobutadiene	8.907	225	25994	0.49	ppm	91
11) 2-Methylnaphthalene	9.995	141	100392	0.56	ppm #	64
13) Hexachlorocyclopentadiene	10.323	237	907	0.23	ppm	94
16) Acenaphthylene	11.774	152	153746	0.60	ppm	90
17) Acenaphthene	12.129	153	114498	0.68	ppm	71
18) 4,6-dinitro-2-methylph...	13.375	198	54073	2.95	ppm #	25
19) Fluorene	13.168	166	136316	0.66	ppm	100
22) Hexachlorobenzene	14.249	284	32537	0.61	ppm	98
23) Pentachlorophenol	14.728	266	25806	1.55	ppm	99
24) Phenanthrene	15.068	178	202641	0.72	ppm	93
25) Anthracene	15.176	178	176441	0.69	ppm	90
26) Fluoranthene	17.371	202	246361	0.72	ppm	100
27) Pyrene	17.773	202	247396	0.80	ppm	86
29) Benzo[a]anthracene	19.874	228	220886	0.81	ppm	98
30) Chrysene	19.921	228	223960	0.80	ppm	98
32) Benzo[b]fluoranthene	21.543	252	214792	0.68	ppm	95
33) Benzo[k]fluoranthene	21.574	252	206231	0.75	ppm	87
34) Benzo[a]pyrene	21.991	252	204817	0.72	ppm	97
35) Indeno[1,2,3-cd]pyrene	23.431	276	244603	0.73	ppm	94
36) Dibenz[a,h]anthracene	23.468	278	192632	0.73	ppm	99
37) Benzo[g,h,i]perylene	23.769	276	201810	0.70	ppm	99

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2918\
Data File : 3m61911.D
Acq On : 3 Jun 2016 8:59 am
Operator : ashleyd
Sample : op94425a-bs12
Misc : op94425a,e3m2918,1000
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 03 12:35:49 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2887SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri Jun 03 12:29:24 2016
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2919\
Data File : 3m61939.D
Acq On : 3 Jun 2016 11:57 pm
Operator : linseyk
Sample : op94425a-bs12
Misc : op94425a,e3m2919,1000
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Jun 05 17:26:12 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2887SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Sun Jun 05 17:11:29 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	10.118	150	633565	4.00	ppm	0.00
14) Fluorene-d10	13.111	176	861635	4.00	ppm	0.00
21) Fluoranthene-d10	17.340	212	1372962	4.00	ppm	-0.02
31) Benzo(a)pyrene-d12	21.960	264	1080266	4.00	ppm	-0.02
System Monitoring Compounds						
3) 2-Fluorophenol	4.137	112	1447229	17.86	ppm	-0.05
Spiked Amount 50.000			Recovery = 35.72%			
4) Phenol-d5	5.762	99	1510999	11.58	ppm	-0.03
Spiked Amount 50.000			Recovery = 23.16%			
7) Nitrobenzene-d5	7.250	82	3496357	31.76	ppm	-0.05
Spiked Amount 50.000			Recovery = 63.52%			
15) 2-Fluorobiphenyl	10.795	172	6627815	31.11	ppm	-0.02
Spiked Amount 50.000			Recovery = 62.22%			
20) 2,4,6-Tribromophenol	13.657	330	664902	31.77	ppm	-0.01
Spiked Amount 50.000			Recovery = 63.54%			
28) Terphenyl-d14	18.159	244	6597197	34.42	ppm	-0.01
Spiked Amount 50.000			Recovery = 68.84%			
Target Compounds						Qvalue
2) 1,4-dioxane	1.927	88	12638	0.35	ppm	67
5) Phenol	5.774	94	186805	1.37	ppm #	82
6) bis(2-Chloroethyl)ether	5.823	93	61297	0.63	ppm	75
8) Nitrobenzene	7.287	77	77734	0.68	ppm #	42
9) Naphthalene	8.624	128	215656	0.60	ppm	95
10) Hexachlorobutadiene	8.907	225	32367	0.58	ppm	78
11) 2-Methylnaphthalene	9.995	141	120765	0.65	ppm	77
13) Hexachlorocyclopentadiene	10.323	237	1531	0.24	ppm	83
16) Acenaphthylene	11.758	152	176981	0.64	ppm	97
17) Acenaphthene	12.114	153	132988	0.73	ppm	91
18) 4,6-dinitro-2-methylph...	13.375	198	77053	3.58	ppm	96
19) Fluorene	13.149	166	153414	0.69	ppm	74
22) Hexachlorobenzene	14.249	284	36396	0.60	ppm	91
23) Pentachlorophenol	14.713	266	49404	2.29	ppm	98
24) Phenanthrene	15.068	178	226918	0.71	ppm	96
25) Anthracene	15.161	178	200829	0.69	ppm	98
26) Fluoranthene	17.371	202	273200	0.70	ppm	95
27) Pyrene	17.757	202	276418	0.79	ppm	94
29) Benzo[a]anthracene	19.859	228	230477	0.74	ppm	88
30) Chrysene	19.921	228	244377	0.76	ppm	93
32) Benzo[b]fluoranthene	21.527	252	241003	0.72	ppm	94
33) Benzo[k]fluoranthene	21.574	252	200985	0.68	ppm	95
34) Benzo[a]pyrene	21.991	252	205636	0.68	ppm	89
35) Indeno[1,2,3-cd]pyrene	23.431	276	234881	0.66	ppm	89
36) Dibenz[a,h]anthracene	23.468	278	176401	0.63	ppm	76
37) Benzo[g,h,i]perylene	23.750	276	202312	0.66	ppm	96

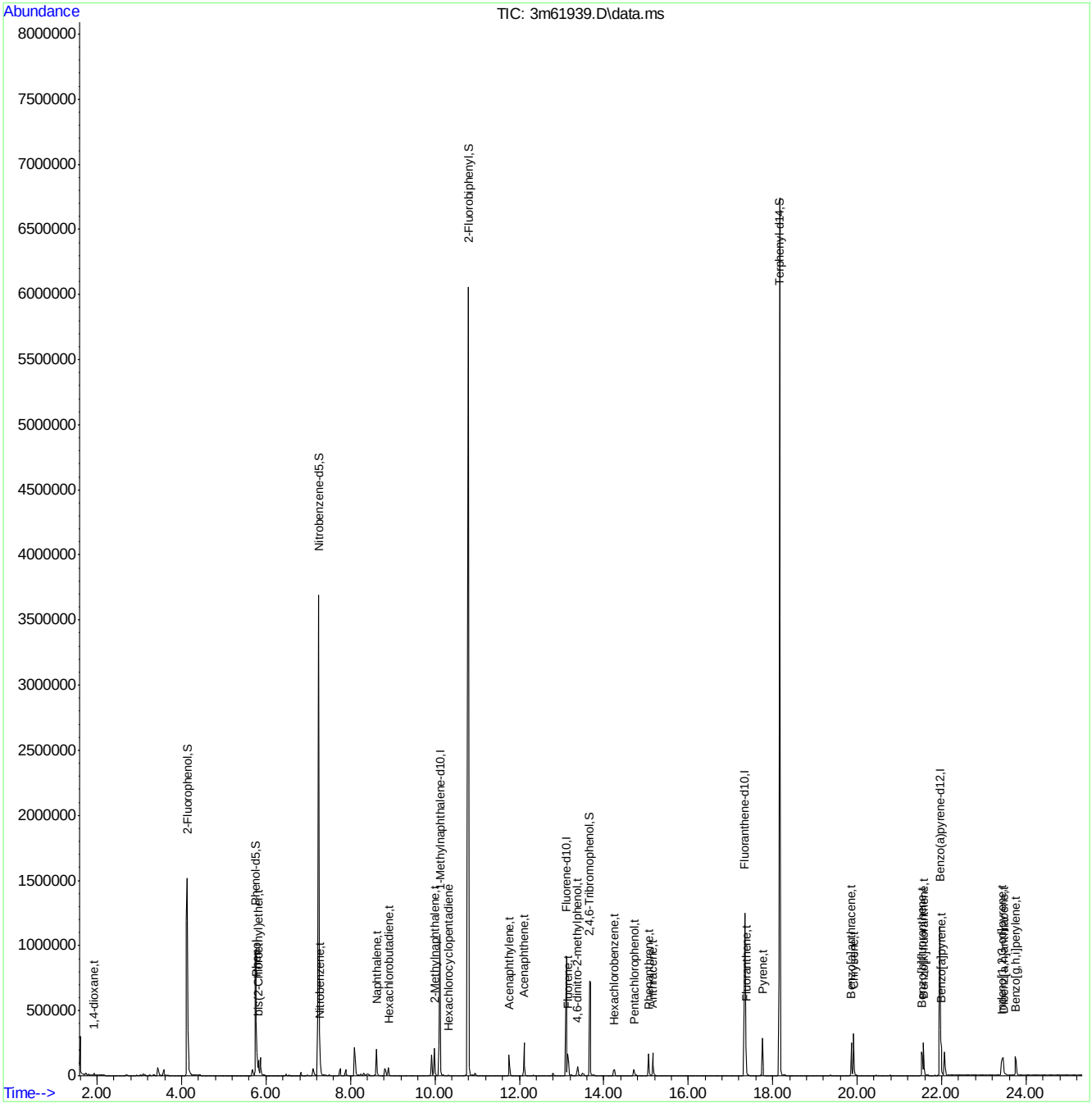
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC21347

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2919\
Data File : 3m61939.D
Acq On : 3 Jun 2016 11:57 pm
Operator : linseyk
Sample : op94425a-bs12
Misc : op94425a,e3m2919,1000
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Jun 05 17:26:12 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2887SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Sun Jun 05 17:11:29 2016
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2930\
Data File : 3m62162.D
Acq On : 11 Jun 2016 4:59 am
Operator : juliusj
Sample : op94471a-bs12
Misc : op94471a,e3m2930,30.0
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Jun 13 10:35:28 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2887SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu Jun 09 10:49:16 2016
Response via : Initial Calibration

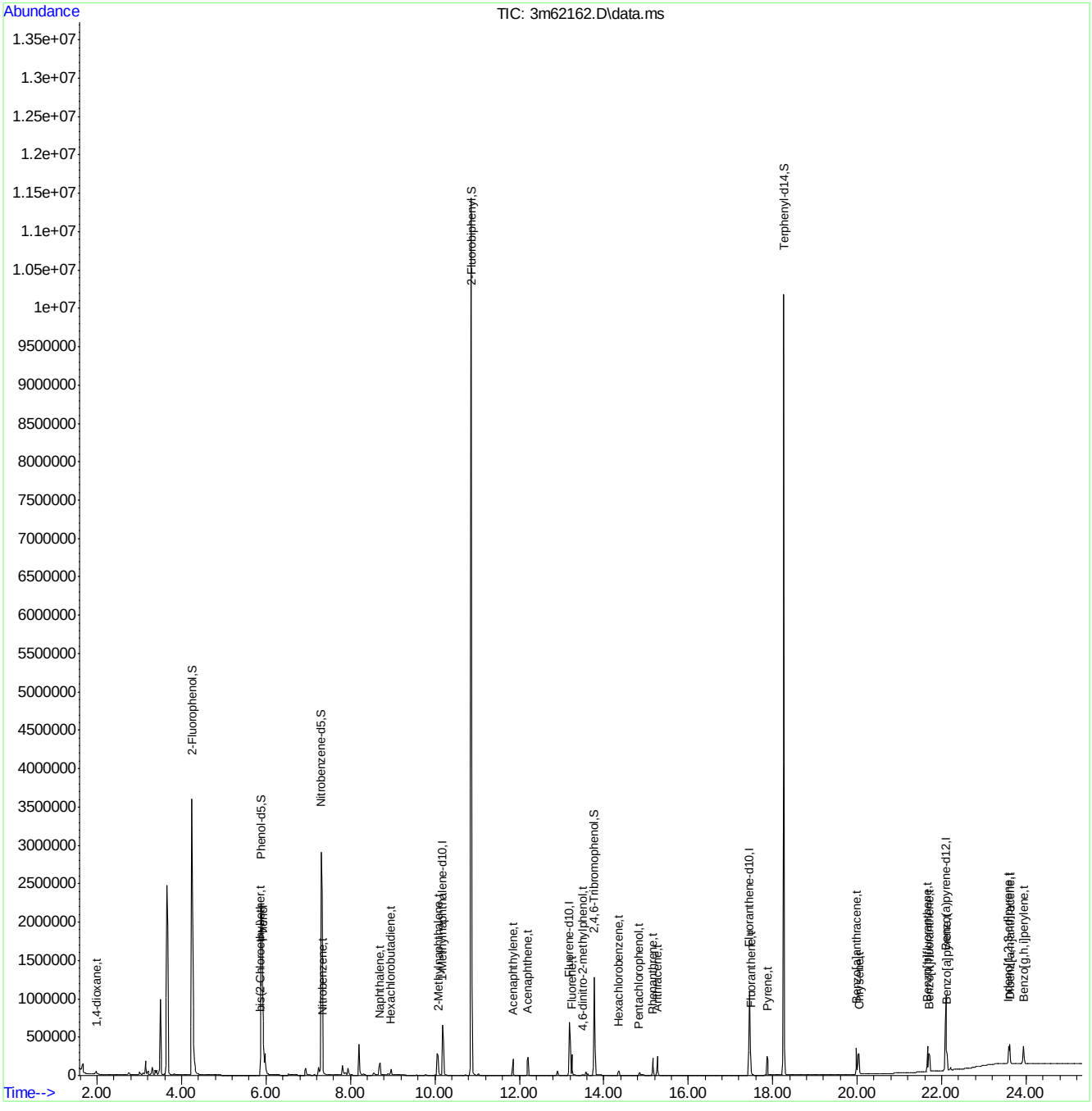
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	10.180	150	512240	4.00	ppm	0.06
14) Fluorene-d10	13.186	176	688718	4.00	ppm	0.08
21) Fluoranthene-d10	17.448	212	1163091	4.00	ppm	0.09
31) Benzo(a)pyrene-d12	22.099	264	1072474	4.00	ppm	0.12
System Monitoring Compounds						
3) 2-Fluorophenol	4.245	112	3696336	56.43	ppm	0.06
Spiked Amount 50.000			Recovery = 112.86%			
4) Phenol-d5	5.895	99	5088234	48.25	ppm	0.11
Spiked Amount 50.000			Recovery = 96.50%			
7) Nitrobenzene-d5	7.306	82	3903251	43.85	ppm	0.00
Spiked Amount 50.000			Recovery = 87.70%			
15) 2-Fluorobiphenyl	10.862	172	8907766	52.30	ppm	0.05
Spiked Amount 50.000			Recovery = 104.60%			
20) 2,4,6-Tribromophenol	13.770	330	813681	48.64	ppm	0.10
Spiked Amount 50.000			Recovery = 97.28%			
28) Terphenyl-d14	18.267	244	8882812	54.70	ppm	0.10
Spiked Amount 50.000			Recovery = 109.40%			
Target Compounds						Qvalue
2) 1,4-dioxane	1.989	88	22756	0.78	ppm #	30
5) Phenol	5.919	94	611854	5.54	ppm #	82
6) bis(2-Chloroethyl)ether	5.871	93	89239	1.13	ppm #	68
8) Nitrobenzene	7.344	77	115647	1.26	ppm	80
9) Naphthalene	8.699	128	260506	0.90	ppm	92
10) Hexachlorobutadiene	8.963	225	46025	1.02	ppm	75
11) 2-Methylnaphthalene	10.077	141	172914	1.14	ppm #	47
16) Acenaphthylene	11.851	152	242665	1.10	ppm	91
17) Acenaphthene	12.207	153	162559	1.11	ppm	74
18) 4,6-dinitro-2-methylph...	13.507	198	12426	1.48	ppm	91
19) Fluorene	13.243	166	190793	1.07	ppm	83
22) Hexachlorobenzene	14.357	284	43418	0.84	ppm	89
23) Pentachlorophenol	14.836	266	59873	3.07	ppm	95
24) Phenanthrene	15.161	178	263735	0.97	ppm	90
25) Anthracene	15.269	178	253711	1.03	ppm	95
26) Fluoranthene	17.479	202	310024	0.94	ppm	97
27) Pyrene	17.866	202	322455	1.09	ppm	99
29) Benzo[a]anthracene	19.982	228	306985	1.17	ppm	94
30) Chrysene	20.044	228	284491	1.05	ppm	89
32) Benzo[b]fluoranthene	21.666	252	285943	0.86	ppm	97
33) Benzo[k]fluoranthene	21.697	252	282320	0.97	ppm	86
34) Benzo[a]pyrene	22.115	252	270138	0.91	ppm	97
35) Indeno[1,2,3-cd]pyrene	23.581	276	302975	0.86	ppm	97
36) Dibenz[a,h]anthracene	23.619	278	257561	0.92	ppm	96
37) Benzo[g,h,i]perylene	23.938	276	253377	0.84	ppm	98

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2930\
Data File : 3m62162.D
Acq On : 11 Jun 2016 4:59 am
Operator : juliusj
Sample : op94471a-bs12
Misc : op94471a,e3m2930,30.0
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Jun 13 10:35:28 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2887SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu Jun 09 10:49:16 2016
Response via : Initial Calibration



M3M2887SIM.M Mon Jun 13 10:35:38 2016 RPT1 Page: 2

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6637\F157718.D Vial: 7
Acq On : 3 Jun 2016 1:18 am Operator: juliusj
Sample : op94425-ms Inst : MSF
Misc : op94425,ef6637,450 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 03 12:17:50 2016 Quant Results File: MF6563.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Jun 03 12:16:37 2016
Response via : Initial Calibration
DataAcq Meth : MF6563

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.55	152	416617	40.00	ppm	0.00
24) Naphthalene-d8	5.47	136	1726271	40.00	ppm	0.00
47) Acenaphthene-d10	6.84	164	971393	40.00	ppm	0.00
69) Phenanthrene-d10	8.64	188	1502005	40.00	ppm	0.00
83) Chrysene-d12	13.80	240	1387808	40.00	ppm	0.00
92) Perylene-d12	16.83	264	1263194	40.00	ppm	0.00
102) 1,4-Dichlorobenzene-d4b	4.55	152	416617	40.00	ppm	0.00
104) Naphthalene-d8b	5.47	136	1726271	40.00	ppm	0.00
106) Acenaphthene-d10b	6.84	164	971393	40.00	ppm	0.00
108) Phenanthrene-d10b	8.64	188	1502005	40.00	ppm	0.00
110) Chrysene-d12b	13.80	240	1387578	40.00	ppm	0.00

System Monitoring Compounds						
5) 2-Fluorophenol	3.57	112	401683	27.42	ppm	-0.04
Spiked Amount 50.000			Recovery = 54.84%			
8) Phenol-d5	4.31	99	492313	27.63	ppm	0.00
Spiked Amount 50.000			Recovery = 55.26%			
25) Nitrobenzene-d5	4.96	82	539340	33.46	ppm	0.00
Spiked Amount 50.000			Recovery = 66.92%			
51) 2-Fluorobiphenyl	6.26	172	939744	30.31	ppm	0.00
Spiked Amount 50.000			Recovery = 60.62%			
73) 2,4,6-Tribromophenol	7.69	330	123512	40.30	ppm	0.00
Spiked Amount 50.000			Recovery = 80.60%			
85) Terphenyl-d14	11.62	244	983790	34.91	ppm	-0.02
Spiked Amount 50.000			Recovery = 69.82%			

Target Compounds							Qvalue
2) 1,4-Dioxane	2.09	88	142916	22.15	ppm		81
3) Pyridine	2.42	79	220113	14.48	ppm		92
4) N-Nitrosodimethylamine	2.38	42	189976	34.74	ppm		94
6) Indene	4.74	116	766660	31.09	ppm		94
7) Cumene	3.95	105	946754	28.58	ppm		93
9) Phenol	4.32	94	565553	29.82	ppm	#	65
10) Aniline	4.31	93	666460	32.11	ppm		96
11) bis(2-Chloroethyl)ether	4.36	93	436291	31.98	ppm		98
12) 2-Chlorophenol	4.40	128	457972	29.61	ppm		97
13) Decane	4.43	43	287166	21.58	ppm		97
14) 1,3-Dichlorobenzene	4.51	146	399851	23.31	ppm		100
15) 1,4-Dichlorobenzene	4.56	146	431018	25.18	ppm		98
16) Benzyl alcohol	4.66	108	342792	34.75	ppm		95
17) 1,2-Dichlorobenzene	4.67	146	417060	25.92	ppm		96
18) Acetophenone	4.85	105	649795	34.85	ppm		97
19) 2-Methylphenol	4.76	108	455627	34.39	ppm		85
20) 2,2'-oxybis(1-Chloropropan	4.76	121	126668	25.75	ppm	#	28
21) 3&4-Methylphenol	4.87	108	474078	34.89	ppm		98
22) n-Nitroso-di-n-propylamine	4.85	70	376835	37.44	ppm		98
23) Hexachloroethane	4.92	201	125637	23.70	ppm		81
26) Nitrobenzene	4.97	77	613917	36.36	ppm		85
27) Quinoline	5.73	129	1159804	34.76	ppm		98
28) Isophorone	5.15	82	1017503	35.29	ppm		93

(#) = qualifier out of range (m) = manual integration
F157718.D MF6563.M Fri Jun 03 12:19:48 2016 RT1

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6637\F157718.D Vial: 7
Acq On : 3 Jun 2016 1:18 am Operator: juliusj
Sample : op94425-ms Inst : MSF
Misc : op94425,ef6637,450 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 03 12:17:50 2016 Quant Results File: MF6563.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Jun 03 12:16:37 2016
Response via : Initial Calibration
DataAcq Meth : MF6563

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
29)	2-Nitrophenol	5.20	139	235584	26.90	ppm		90
30)	2,4-Dimethylphenol	5.24	107	507346	36.77	ppm		99
31)	Benzoic acid	5.34	105	381774	33.10	ppm		88
32)	bis(2-Chloroethoxy)methane	5.30	93	519710	28.60	ppm		98
33)	2,4-Dichlorophenol	5.39	162	359563	26.09	ppm		97
34)	2,6-Dichlorophenol	5.54	162	367071	27.74	ppm		96
36)	1,2,4-Trichlorobenzene	5.43	180	327306	22.97	ppm		97
38)	Naphthalene	5.49	128	1308865	27.77	ppm		98
39)	4-Chloroaniline	5.54	127	531686	27.32	ppm		91
40)	2,3-Dichloroaniline	6.20	161	417947	26.04	ppm		93
41)	Caprolactam	5.79	55	120278	18.37	ppm		94
42)	Hexachlorobutadiene	5.57	225	164691	24.42	ppm		96
43)	4-Chloro-3-methylphenol	5.89	107	469287	34.72	ppm		97
44)	2-Methylnaphthalene	5.98	141	721506	27.14	ppm	#	72
45)	1-Methylnaphthalene	6.06	141	776979	28.40	ppm		99
46)	Dimethylnaphthalene	6.47	156	796394	28.73	ppm		97
48)	Hexachlorocyclopentadiene	6.10	237	291776	44.27	ppm		95
49)	2,4,6-Trichlorophenol	6.20	196	259123	31.44	ppm		93
50)	2,4,5-Trichlorophenol	6.24	196	263702	29.06	ppm		98
52)	2-Chloronaphthalene	6.36	162	810493	28.87	ppm		91
53)	Biphenyl	6.34	154	1099842	30.51	ppm		97
54)	2-Nitroaniline	6.45	65	334468	42.04	ppm		81
55)	Dimethylphthalate	6.60	163	1020901	32.50	ppm		99
56)	Acenaphthylene	6.71	152	1335102	29.34	ppm		98
57)	2,6-Dinitrotoluene	6.66	165	234899	34.60	ppm		93
58)	3-Nitroaniline	6.81	138	238317	28.04	ppm		100
59)	Acenaphthene	6.87	153	864567	30.25	ppm		95
60)	2,4-Dinitrophenol	6.91	184	279699	70.75	ppm		92
61)	4-Nitrophenol	7.00	109	169312	42.41	ppm	#	39
62)	Dibenzofuran	7.04	168	1206991	30.95	ppm		98
63)	2,4-Dinitrotoluene	7.04	165	317570	34.52	ppm		86
64)	2,3,4,6-Tetrachlorophenol	7.18	232	215183	31.44	ppm		91
65)	Diethylphthalate	7.29	149	1071302	34.51	ppm		99
66)	Fluorene	7.41	166	1002899	33.42	ppm		100
67)	4-Chlorophenyl-phenylether	7.41	204	444025	33.57	ppm		97
68)	4-Nitroaniline	7.45	138	238087	27.74	ppm		97
70)	4,6-Dinitro-2-methylphenol	7.49	198	191663	40.40	ppm		94
71)	n-Nitrosodiphenylamine	7.55	169	698491	32.49	ppm		96
72)	1,2-Diphenylhydrazine	7.60	77	1323498	44.55	ppm		91
74)	4-Bromophenyl-phenylether	8.01	248	246164	34.07	ppm		97
75)	Hexachlorobenzene	8.09	284	261820	37.96	ppm		97
76)	Pentachlorophenol	8.38	266	152886	33.65	ppm		98
77)	Phenanthrene	8.67	178	1427291	33.03	ppm		98
78)	Anthracene	8.75	178	1431213	33.09	ppm		98
79)	Carbazole	9.03	167	1339064	33.02	ppm		97
80)	Di-n-butylphthalate	9.71	149	1810120	35.74	ppm		98
81)	Fluoranthene	10.75	202	1466095	34.21	ppm		99
82)	Octadecane	8.54	57	626543	35.63	ppm		91
84)	Pyrene	11.19	202	1562589	31.75	ppm		98

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6637\F157718.D Vial: 7
Acq On : 3 Jun 2016 1:18 am Operator: juliusj
Sample : op94425-ms Inst : MSF
Misc : op94425,ef6637,450 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 03 12:17:50 2016 Quant Results File: MF6563.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Jun 03 12:16:37 2016
Response via : Initial Calibration
DataAcq Meth : MF6563

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
86)	Butylbenzylphthalate	12.79	149	801346	33.15	ppm	88
88)	Benzo[a]anthracene	13.79	228	1342747	31.94	ppm	98
89)	3,3'-Dichlorobenzidine	13.84	252	583393	39.84	ppm	98
90)	Chrysene	13.86	228	1322958	31.66	ppm	99
91)	bis(2-Ethylhexyl)phthalate	14.19	149	1084643	32.37	ppm	95
93)	Di-n-octylphthalate	15.63	149	1871858	33.82	ppm	98
94)	Benzo[b]fluoranthene	16.09	252	1348190	34.53	ppm	98
95)	Benzo[k]fluoranthene	16.14	252	1306330	34.19	ppm	99
96)	Benzo[a]pyrene	16.72	252	1158924	32.43	ppm	95
97)	Indeno[1,2,3-cd]pyrene	18.77	276	1082349	32.82	ppm	98
99)	Dibenz[a,h]anthracene	18.84	278	1135181	35.58	ppm	97
100)	7,12-Dimethylbenz(a)anthra	16.10	256	567010	37.20	ppm	93
101)	Benzo[g,h,i]perylene	19.20	276	1129596	31.70	ppm	100
103)	Benzaldehyde	4.23	105	342659	29.21	ppm	98
107)	1,2,4,5-Tetrachlorobenzene	6.11	216	350288	25.92	ppm	98
109)	Atrazine	8.27	200	264383	36.62	ppm	92
111)	Benzidine	11.11	184	73127	3.03	ppm	88

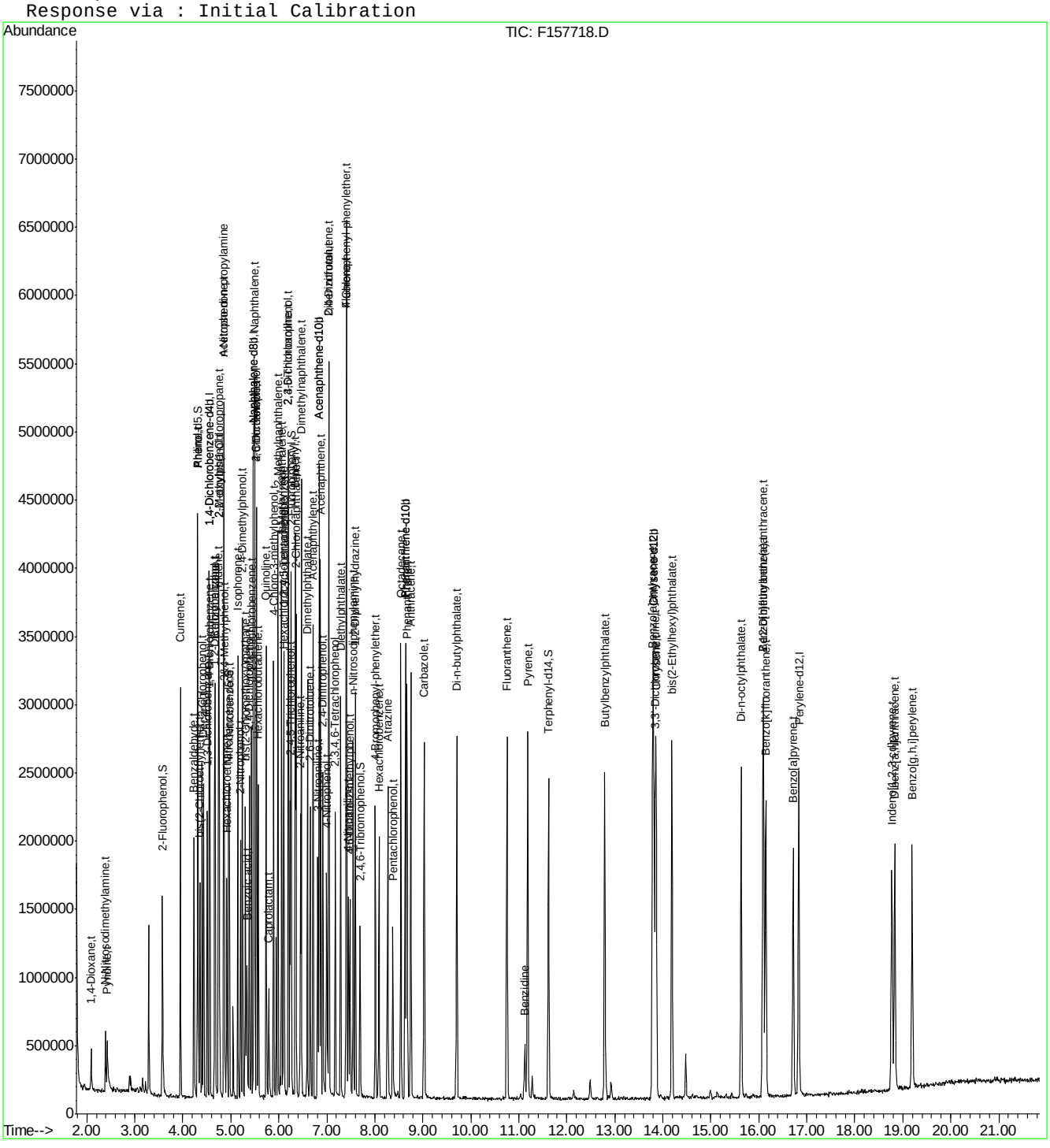
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC21347

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6637\F157718.D Vial: 7
Acq On : 3 Jun 2016 1:18 am Operator: juliusj
Sample : op94425-ms Inst : MSF
Misc : op94425,ef6637,450 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 3 12:19 2016 Quant Results File: MF6563.RES

Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Jun 03 12:16:37 2016
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6637\F157719.D Vial: 8
Acq On : 3 Jun 2016 1:47 am Operator: juliusj
Sample : op94425-msd Inst : MSF
Misc : op94425,ef6637,450 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 03 12:20:03 2016 Quant Results File: MF6563.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Jun 03 12:16:37 2016
Response via : Initial Calibration
DataAcq Meth : MF6563

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.55	152	420629	40.00	ppm	0.00
24) Naphthalene-d8	5.47	136	1734144	40.00	ppm	0.00
47) Acenaphthene-d10	6.84	164	941318	40.00	ppm	0.00
69) Phenanthrene-d10	8.64	188	1455026	40.00	ppm	0.00
83) Chrysene-d12	13.81	240	1350348	40.00	ppm	0.00
92) Perylene-d12	16.83	264	1265978	40.00	ppm	0.00
102) 1,4-Dichlorobenzene-d4b	4.55	152	420629	40.00	ppm	0.00
104) Naphthalene-d8b	5.47	136	1734144	40.00	ppm	0.00
106) Acenaphthene-d10b	6.84	164	941318	40.00	ppm	0.00
108) Phenanthrene-d10b	8.64	188	1455026	40.00	ppm	0.00
110) Chrysene-d12b	13.81	240	1350348	40.00	ppm	0.00

System Monitoring Compounds						
5) 2-Fluorophenol	3.57	112	489833	33.11	ppm	-0.04
Spiked Amount 50.000			Recovery = 66.22%			
8) Phenol-d5	4.31	99	589760	32.78	ppm	0.00
Spiked Amount 50.000			Recovery = 65.56%			
25) Nitrobenzene-d5	4.96	82	678699	41.91	ppm	0.00
Spiked Amount 50.000			Recovery = 83.82%			
51) 2-Fluorobiphenyl	6.26	172	1180347	39.29	ppm	0.00
Spiked Amount 50.000			Recovery = 78.58%			
73) 2,4,6-Tribromophenol	7.69	330	154805	52.14	ppm	0.00
Spiked Amount 50.000			Recovery = 104.28%			
85) Terphenyl-d14	11.62	244	1152619	42.03	ppm	-0.02
Spiked Amount 50.000			Recovery = 84.06%			

Target Compounds							Qvalue
2) 1,4-Dioxane	2.09	88	155360	23.85	ppm		69
3) Pyridine	2.42	79	360155	23.47	ppm		94
4) N-Nitrosodimethylamine	2.38	42	212797	38.54	ppm		99
6) Indene	4.74	116	972228	39.05	ppm		97
7) Cumene	3.95	105	1167171	34.90	ppm		92
9) Phenol	4.32	94	670822	35.03	ppm	#	63
10) Aniline	4.31	93	705967	33.69	ppm		88
11) bis(2-Chloroethyl)ether	4.36	93	548767	39.83	ppm		95
12) 2-Chlorophenol	4.40	128	553041	35.42	ppm		93
13) Decane	4.43	43	346605	25.80	ppm		93
14) 1,3-Dichlorobenzene	4.51	146	495073	28.58	ppm		96
15) 1,4-Dichlorobenzene	4.56	146	527867	30.55	ppm		98
16) Benzyl alcohol	4.66	108	398688	40.04	ppm		98
17) 1,2-Dichlorobenzene	4.67	146	513702	31.62	ppm		98
18) Acetophenone	4.85	105	844987	44.89	ppm		94
19) 2-Methylphenol	4.76	108	546931	40.89	ppm		79
20) 2,2'-oxybis(1-Chloropropan	4.76	121	154159	31.04	ppm	#	1
21) 3&4-Methylphenol	4.87	108	601884	43.88	ppm		96
22) n-Nitroso-di-n-propylamine	4.85	70	481010	47.33	ppm		96
23) Hexachloroethane	4.92	201	152166	28.43	ppm		87
26) Nitrobenzene	4.97	77	759102	44.76	ppm		85
27) Quinoline	5.74	129	1263715	37.71	ppm		97
28) Isophorone	5.14	82	1305386	45.06	ppm		94

(#) = qualifier out of range (m) = manual integration
F157719.D MF6563.M Fri Jun 03 12:20:28 2016 RT1

SGS ACCUTEST JC21347

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6637\F157719.D Vial: 8
Acq On : 3 Jun 2016 1:47 am Operator: juliusj
Sample : op94425-msd Inst : MSF
Misc : op94425,ef6637,450 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 03 12:20:03 2016 Quant Results File: MF6563.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Jun 03 12:16:37 2016
Response via : Initial Calibration
DataAcq Meth : MF6563

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
29)	2-Nitrophenol	5.20	139	299975	34.09	ppm		93
30)	2,4-Dimethylphenol	5.24	107	632591	45.64	ppm		98
31)	Benzoic acid	5.34	105	460512	39.74	ppm		94
32)	bis(2-Chloroethoxy)methane	5.30	93	667712	36.57	ppm		97
33)	2,4-Dichlorophenol	5.39	162	469227	33.90	ppm		95
34)	2,6-Dichlorophenol	5.54	162	467504	35.16	ppm		98
36)	1,2,4-Trichlorobenzene	5.43	180	410381	28.67	ppm		98
38)	Naphthalene	5.49	128	1684109	35.57	ppm		100
39)	4-Chloroaniline	5.53	127	473485	24.22	ppm		96
40)	2,3-Dichloroaniline	6.20	161	501859	31.12	ppm		91
41)	Caprolactam	5.80	55	135883	20.66	ppm		81
42)	Hexachlorobutadiene	5.57	225	196266	28.97	ppm		91
43)	4-Chloro-3-methylphenol	5.89	107	604090	44.49	ppm		96
44)	2-Methylnaphthalene	5.98	141	946731	35.45	ppm	#	70
45)	1-Methylnaphthalene	6.06	141	978745	35.61	ppm		99
46)	Dimethylnaphthalene	6.47	156	1011863	36.34	ppm		98
48)	Hexachlorocyclopentadiene	6.10	237	367137	57.48	ppm		93
49)	2,4,6-Trichlorophenol	6.20	196	331239	41.47	ppm		96
50)	2,4,5-Trichlorophenol	6.24	196	343192	39.02	ppm		97
52)	2-Chloronaphthalene	6.36	162	1014709	37.31	ppm		93
53)	Biphenyl	6.34	154	1396816	39.99	ppm		98
54)	2-Nitroaniline	6.45	65	423605	54.95	ppm		87
55)	Dimethylphthalate	6.60	163	1266220	41.60	ppm		99
56)	Acenaphthylene	6.71	152	1702411	38.61	ppm		99
57)	2,6-Dinitrotoluene	6.66	165	287156	43.65	ppm		99
58)	3-Nitroaniline	6.81	138	229661	27.88	ppm		98
59)	Acenaphthene	6.88	153	1115000	40.27	ppm		92
60)	2,4-Dinitrophenol	6.92	184	363057	93.90	ppm		97
61)	4-Nitrophenol	7.00	109	195469	50.52	ppm	#	82
62)	Dibenzofuran	7.04	168	1553174	41.10	ppm		94
63)	2,4-Dinitrotoluene	7.04	165	402239	45.11	ppm		83
64)	2,3,4,6-Tetrachlorophenol	7.18	232	264127	39.83	ppm		90
65)	Diethylphthalate	7.29	149	1318210	43.82	ppm		99
66)	Fluorene	7.41	166	1265303	43.51	ppm		96
67)	4-Chlorophenyl-phenylether	7.41	204	543871	42.44	ppm		95
68)	4-Nitroaniline	7.45	138	289857	34.85	ppm		95
70)	4,6-Dinitro-2-methylphenol	7.48	198	234260	50.97	ppm		90
71)	n-Nitrosodiphenylamine	7.55	169	863152	41.45	ppm		93
72)	1,2-Diphenylhydrazine	7.60	77	1609581	55.93	ppm		92
74)	4-Bromophenyl-phenylether	8.01	248	302570	43.23	ppm		87
75)	Hexachlorobenzene	8.09	284	308685	46.21	ppm		98
76)	Pentachlorophenol	8.38	266	193798	44.03	ppm		91
77)	Phenanthrene	8.68	178	1774216	42.38	ppm		98
78)	Anthracene	8.75	178	1728717	41.25	ppm		99
79)	Carbazole	9.03	167	1700297	43.28	ppm		98
80)	Di-n-butylphthalate	9.71	149	2244531	45.75	ppm		98
81)	Fluoranthene	10.75	202	1787726	43.07	ppm		97
82)	Octadecane	8.54	57	745021	43.74	ppm		93
84)	Pyrene	11.19	202	1890714	39.48	ppm		98

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6637\F157719.D Vial: 8
Acq On : 3 Jun 2016 1:47 am Operator: juliusj
Sample : op94425-msd Inst : MSF
Misc : op94425,ef6637,450 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 03 12:20:03 2016 Quant Results File: MF6563.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Jun 03 12:16:37 2016
Response via : Initial Calibration
DataAcq Meth : MF6563

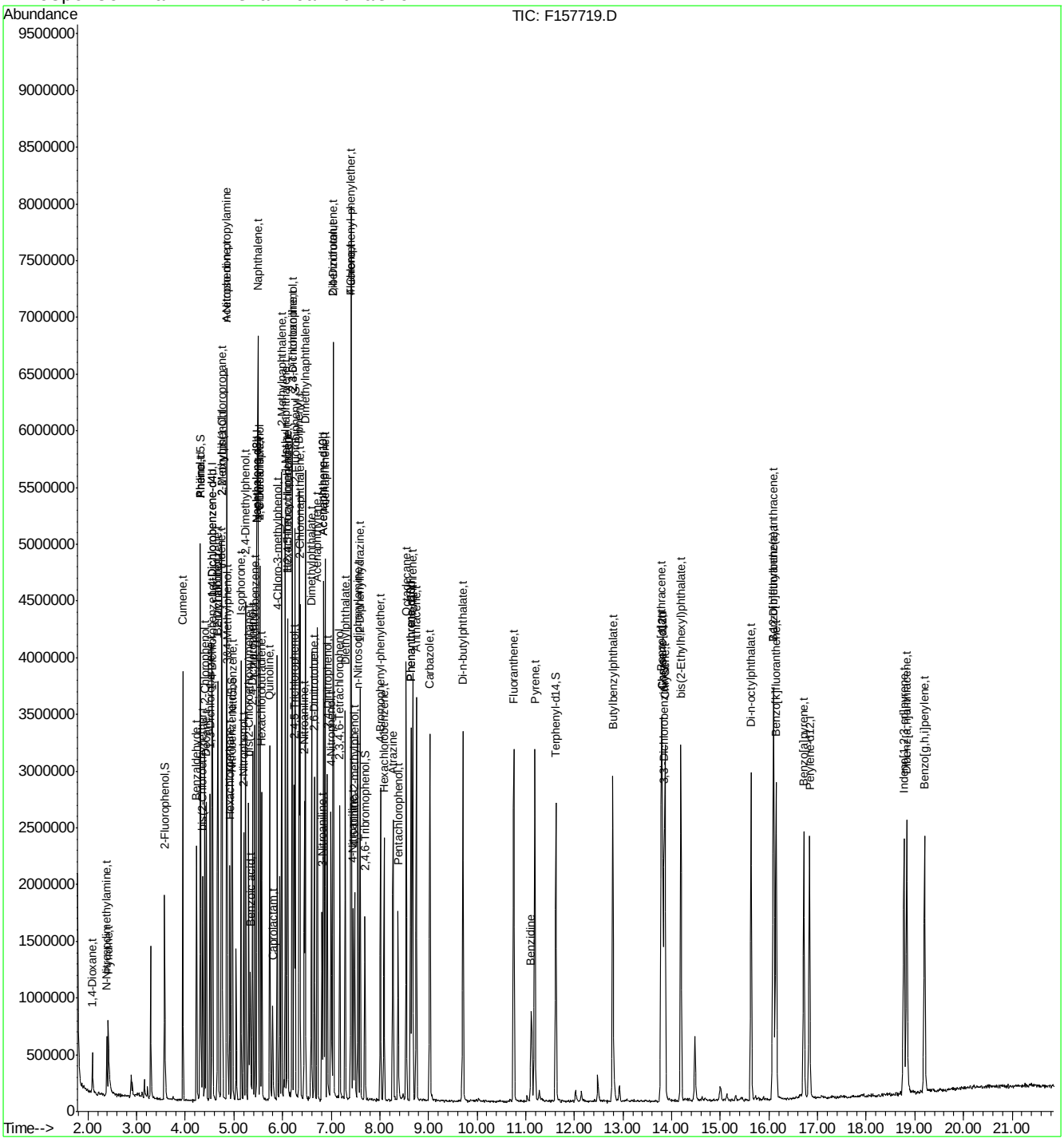
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
86)	Butylbenzylphthalate	12.79	149	957435	40.70	ppm	86
88)	Benzo[a]anthracene	13.79	228	1626650	39.77	ppm	99
89)	3,3'-Dichlorobenzidine	13.84	252	563251	39.53	ppm	97
90)	Chrysene	13.86	228	1608445	39.56	ppm	98
91)	bis(2-Ethylhexyl)phthalate	14.19	149	1330956	40.83	ppm	97
93)	Di-n-octylphthalate	15.64	149	2251624	40.59	ppm	99
94)	Benzo[b]fluoranthene	16.09	252	1660191	42.43	ppm	98
95)	Benzo[k]fluoranthene	16.15	252	1628848	42.54	ppm	99
96)	Benzo[a]pyrene	16.72	252	1418206	39.60	ppm	99
97)	Indeno[1,2,3-cd]pyrene	18.78	276	1380601	41.78	ppm	98
99)	Dibenz[a,h]anthracene	18.84	278	1411288	44.14	ppm	97
100)	7,12-Dimethylbenz(a)anthra	16.10	256	686901	44.96	ppm	96
101)	Benzo[g,h,i]perylene	19.20	276	1451512	40.64	ppm	97
103)	Benzaldehyde	4.23	105	391800	33.08	ppm	98
107)	1,2,4,5-Tetrachlorobenzene	6.11	216	466675	35.63	ppm	97
109)	Atrazine	8.27	200	327187	46.78	ppm	95
111)	Benzidine	11.11	184	405709	17.29	ppm	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed
F157719.D MF6563.M Fri Jun 03 12:20:28 2016 RT1

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6637\F157719.D Vial: 8
Acq On : 3 Jun 2016 1:47 am Operator: juliusj
Sample : op94425-msd Inst : MSF
Misc : op94425,ef6637,450 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 3 12:20 2016 Quant Results File: MF6563.RES

Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Jun 03 12:16:37 2016
Response via : Initial Calibration



SGS ACCUTEST JC21347

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P2614\
Data File : 2p59952.D
Acq On : 8 Jun 2016 5:32 pm
Operator : robertl1
Sample : OP94471-MS
Misc : op94471,e2p2614,30.9
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Jun 09 16:41:36 2016
Quant Method : C:\MSDCHEM\1\METHODS\M2P2606.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri Jun 03 08:53:01 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.868	152	337342	40.00	ppm	-0.04
24) Naphthalene-d8	5.927	136	1140252	40.00	ppm	-0.04
47) Acenaphthene-d10	7.371	164	632985	40.00	ppm	-0.04
69) Phenanthrene-d10	8.719	188	1058388	40.00	ppm	-0.04
83) Chrysene-d12	12.094	240	891596	40.00	ppm	-0.04
91) Perylene-d12	14.116	264	718984	40.00	ppm	-0.03
101) 1,4-Dichlorobenzene-d4a	4.868	152	337342	40.00	ppm	-0.04
103) Naphthalene-d8a	5.927	136	1140252	40.00	ppm	-0.03
105) Acenaphthene-d10a	7.371	164	632985	40.00	ppm	-0.04
108) Chrysene-d12a	12.094	240	891596	40.00	ppm	-0.03
System Monitoring Compounds						
5) 2-Fluorophenol	3.782	112	430434	33.93	ppm	0.00
Spiked Amount 50.000	Range 11 - 58		Recovery = 67.86%#			
8) Phenol-d5	4.595	99	491559	32.63	ppm	0.00
Spiked Amount 50.000	Range 10 - 59		Recovery = 65.26%#			
25) Nitrobenzene-d5	5.333	82	377867	35.10	ppm	-0.04
Spiked Amount 50.000	Range 19 - 61		Recovery = 70.20%#			
51) 2-Fluorobiphenyl	6.815	172	751666	34.97	ppm	-0.04
Spiked Amount 50.000	Range 21 - 58		Recovery = 69.94%#			
73) 2,4,6-Tribromophenol	8.051	330	112999	39.67	ppm	-0.03
Spiked Amount 50.000	Range 12 - 68		Recovery = 79.34%#			
85) Terphenyl-d14	10.623	244	816795	43.91	ppm	-0.04
Spiked Amount 50.000	Range 16 - 65		Recovery = 87.82%#			
Target Compounds						Qvalue
2) 1,4-Dioxane	2.205	88	135411	23.70	ppm	96
3) Pyridine	2.531	79	296167	22.36	ppm #	59
4) N-Nitrosodimethylamine	2.504	74	250821	33.26	ppm #	1
6) Indene	5.082	116	650418	35.65	ppm	99
7) Cumene	4.194	105	896725	31.22	ppm	97
9) Phenol	4.606	94	513470	32.27	ppm	84
10) Aniline	4.595	93	298445	16.36	ppm	65
11) bis(2-Chloroethyl)ether	4.654	93	356349	34.51	ppm	92
12) 2-Chlorophenol	4.702	128	429521	34.10	ppm	90
13) Decane	4.729	57	540596	31.54	ppm	78
14) 1,3-Dichlorobenzene	4.820	146	457082	32.02	ppm	99
15) 1,4-Dichlorobenzene	4.884	146	450271	32.83	ppm	99
16) Benzyl alcohol	4.991	108	261681	36.88	ppm	96
17) 1,2-Dichlorobenzene	5.007	146	427073	33.51	ppm	96
18) Acetophenone	5.205	105	461834	33.92	ppm	88
19) 2-Methylphenol	5.098	108	330503	33.69	ppm	94
20) 2,2'-oxybis(1-Chloropr...	5.098	121	102331	29.44	ppm #	34
21) 3&4-Methylphenol	5.226	108	357170	34.90	ppm	97
22) n-Nitroso-di-n-propyla...	5.210	70	225597	33.10	ppm #	65
23) Hexachloroethane	5.285	201	133823	29.17	ppm #	76
26) Nitrobenzene	5.350	77	346451	33.89	ppm	91
27) Quinoline	6.221	129	722743	33.43	ppm	95
28) Isophorone	5.547	82	683287	36.06	ppm	81

SGS ACCUTEST JC21347

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P2614\
Data File : 2p59952.D
Acq On : 8 Jun 2016 5:32 pm
Operator : robertl1
Sample : OP94471-MS
Misc : op94471,e2p2614,30.9
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Jun 09 16:41:36 2016
Quant Method : C:\MSDCHEM\1\METHODS\M2P2606.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri Jun 03 08:53:01 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
29) 2-Nitrophenol	5.612	139	209044	35.43	ppm		94
30) 2,4-Dimethylphenol	5.660	107	370980	35.99	ppm		95
31) Benzoic acid	5.767	105	238008	32.03	ppm		92
32) bis(2-Chloroethoxy)met...	5.724	93	380511	34.74	ppm		96
33) 2,4-Dichlorophenol	5.820	162	345607	36.42	ppm		92
34) 2,6-Dichlorophenol	6.002	162	305928	35.30	ppm		97
36) 1,2,4-Trichlorobenzene	5.879	180	345057	34.31	ppm		95
38) Naphthalene	5.943	128	1027125	34.26	ppm		99
39) 4-Chloroaniline	5.991	127	253028	19.97	ppm		99
40) 2,3-Dichloroaniline	6.751	161	345855	30.99	ppm		94
41) Caprolactam	6.291	113	119392	34.44	ppm	#	79
42) Hexachlorobutadiene	6.040	225	189314	34.81	ppm		97
43) 4-Chloro-3-methylphenol	6.409	107	335211	36.84	ppm		97
44) 2-Methylnaphthalene	6.516	141	596114	33.78	ppm		96
45) 1-Methylnaphthalene	6.596	141	603891	33.37	ppm		94
46) Dimethylnaphthalene	7.029	156	615952	33.64	ppm		98
48) Hexachlorocyclopentadiene	6.639	237	132028	21.94	ppm		93
49) 2,4,6-Trichlorophenol	6.756	196	237147	37.31	ppm		97
50) 2,4,5-Trichlorophenol	6.794	196	241160	35.23	ppm		98
52) 2-Chloronaphthalene	6.917	162	627002	33.26	ppm		98
53) Biphenyl	6.901	154	808356	33.05	ppm		94
54) 2-Nitroaniline	7.008	65	230849	38.74	ppm		91
55) Dimethylphthalate	7.152	163	763209	35.88	ppm		99
56) Acenaphthylene	7.259	152	1067708	34.16	ppm		100
57) 2,6-Dinitrotoluene	7.205	165	168802	36.14	ppm		85
58) 3-Nitroaniline	7.345	138	182073	30.69	ppm		95
59) Acenaphthene	7.398	153	654121	35.43	ppm		97
60) 2,4-Dinitrophenol	7.435	184	47025	19.58	ppm	#	100
61) 4-Nitrophenol	7.510	109	103931	38.86	ppm		94
62) Dibenzofuran	7.542	168	874136	34.63	ppm		95
63) 2,4-Dinitrotoluene	7.537	165	206066	34.38	ppm		80
64) 2,3,4,6-Tetrachlorophenol	7.649	232	199369	34.58	ppm		96
65) Diethylphthalate	7.735	149	764694	37.23	ppm		94
66) Fluorene	7.831	166	722525	35.24	ppm		97
67) 4-Chlorophenyl-phenyle...	7.831	204	336775	35.35	ppm		97
68) 4-Nitroaniline	7.863	138	203536	34.76	ppm		89
70) 4,6-Dinitro-2-methylph...	7.890	198	46036	13.72	ppm		83
71) n-Nitrosodiphenylamine	7.938	169	558151	38.96	ppm		98
72) 1,2-Diphenylhydrazine	7.970	77	667330	36.27	ppm		88
74) 4-Bromophenyl-phenylether	8.270	248	227676	37.80	ppm		96
75) Hexachlorobenzene	8.334	284	233574	35.48	ppm		79
76) Pentachlorophenol	8.532	266	124789	28.44	ppm		97
77) Phenanthrene	8.741	178	1059800	36.26	ppm		98
78) Anthracene	8.794	178	1053056	36.07	ppm		99
79) Carbazole	8.971	167	1060766	36.78	ppm		97
80) Di-n-butylphthalate	9.361	149	1391691	39.35	ppm		99
81) Fluoranthene	10.110	202	1308879	37.41	ppm		91
82) Octadecane	8.596	43	645818	41.87	ppm	#	67
84) Pyrene	10.399	202	1342513	44.31	ppm		99
86) Butylbenzylphthalate	11.335	149	632036	46.65	ppm		90

SGS ACCUTEST JC21347

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P2614\
Data File : 2p59952.D
Acq On : 8 Jun 2016 5:32 pm
Operator : robertl1
Sample : OP94471-MS
Misc : op94471,e2p2614,30.9
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Jun 09 16:41:36 2016
Quant Method : C:\MSDCHEM\1\METHODS\M2P2606.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri Jun 03 08:53:01 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
87) Benzo[a]anthracene	12.078	228	1009152	36.85 ppm	98
88) 3,3'-Dichlorobenzidine	12.078	252	655440	66.59 ppm	96
89) Chrysene	12.132	228	941964	37.57 ppm	99
90) bis(2-Ethylhexyl)phtha...	12.206	149	704249	43.20 ppm	98
92) Di-n-octylphthalate	13.164	149	1162527	43.49 ppm	95
93) Benzo[b]fluoranthene	13.613	252	889853	37.04 ppm	90
94) Benzo[k]fluoranthene	13.651	252	810818	38.91 ppm	87
95) Benzo[a]pyrene	14.036	252	788888	37.28 ppm	92
96) Indeno[1,2,3-cd]pyrene	15.651	276	696804	36.18 ppm	79
98) Dibenz[a,h]anthracene	15.694	278	685350	35.89 ppm	89
99) 7,12-Dimethylbenz(a)an...	13.608	256	395589	37.51 ppm	96
100) Benzo[g,h,i]perylene	16.095	276	703688	34.53 ppm	86
102) Benzaldehyde	4.504	105	319421	38.69 ppm	89
106) Atrazine	8.436	215	107101	38.68 ppm	97
107) 1,2,4,5-Tetrachloroben...	6.649	216	359067	38.20 ppm	98
109) Benzidine	10.297	184	41223	4.53 ppm	96

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

7.4.3

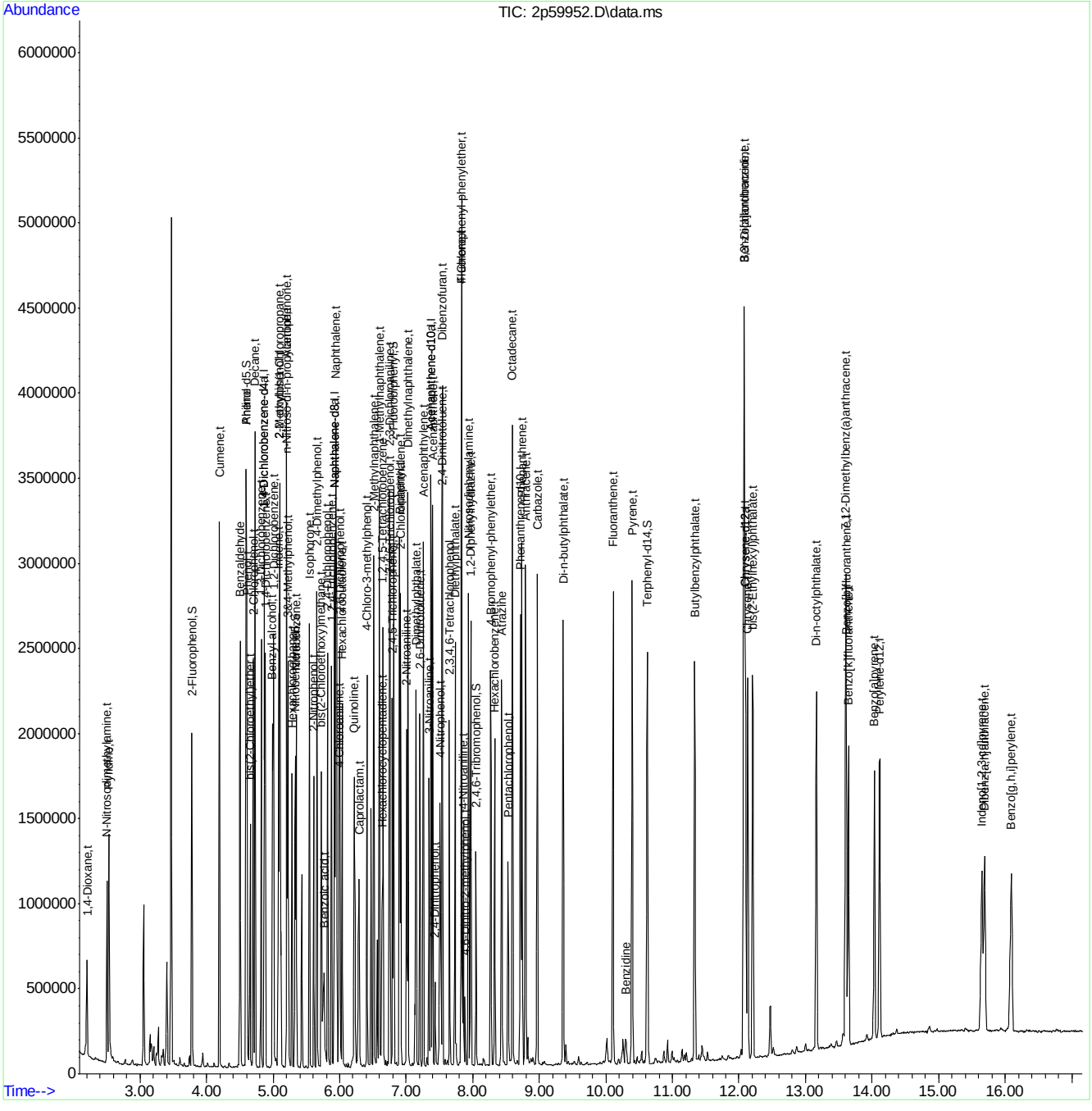
7

SGS ACCUTEST JC21347

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P2614\
Data File : 2p59952.D
Acq On : 8 Jun 2016 5:32 pm
Operator : robertl1
Sample : OP94471-MS
Misc : op94471,e2p2614,30.9
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Jun 09 16:41:36 2016
Quant Method : C:\MSDCHEM\1\METHODS\M2P2606.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri Jun 03 08:53:01 2016
Response via : Initial Calibration



M2P2606.M Thu Jun 09 16:41:40 2016 RPT1 Page: 4

SGS ACCUTEST JC21347

Manual Integrations APPROVED (compounds with "m" flag)
Owen McKenna 06/14/16 13:58

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P2614\
Data File : 2p59953.D
Acq On : 8 Jun 2016 5:53 pm
Operator : robertl1
Sample : OP94471-MSD
Misc : op94471,e2p2614,30.4
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Jun 09 16:50:55 2016
Quant Method : C:\MSDCHEM\1\METHODS\M2P2606.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri Jun 03 08:53:01 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.868	152	342377	40.00	ppm	-0.04
24) Naphthalene-d8	5.927	136	1180502	40.00	ppm	-0.04
47) Acenaphthene-d10	7.371	164	659979	40.00	ppm	-0.04
69) Phenanthrene-d10	8.714	188	1091584	40.00	ppm	-0.04
83) Chrysene-d12	12.089	240	936473	40.00	ppm	-0.04
91) Perylene-d12	14.111	264	741081	40.00	ppm	-0.03
101) 1,4-Dichlorobenzene-d4a	4.868	152	342377	40.00	ppm	-0.04
103) Naphthalene-d8a	5.927	136	1180502	40.00	ppm	-0.03
105) Acenaphthene-d10a	7.371	164	659979	40.00	ppm	-0.04
108) Chrysene-d12a	12.089	240	936473	40.00	ppm	-0.04
System Monitoring Compounds						
5) 2-Fluorophenol	3.777	112	446920	34.71	ppm	-0.01
Spiked Amount 50.000	Range 11 - 58		Recovery = 69.42%#			
8) Phenol-d5	4.590	99	510803	33.41	ppm	-0.01
Spiked Amount 50.000	Range 10 - 59		Recovery = 66.82%#			
25) Nitrobenzene-d5	5.334	82	397039	35.62	ppm	-0.04
Spiked Amount 50.000	Range 19 - 61		Recovery = 71.24%#			
51) 2-Fluorobiphenyl	6.815	172	780611	34.83	ppm	-0.04
Spiked Amount 50.000	Range 21 - 58		Recovery = 69.66%#			
73) 2,4,6-Tribromophenol	8.051	330	117451	39.98	ppm	-0.03
Spiked Amount 50.000	Range 12 - 68		Recovery = 79.96%#			
85) Terphenyl-d14	10.618	244	867146	44.38	ppm	-0.05
Spiked Amount 50.000	Range 16 - 65		Recovery = 88.76%#			
Target Compounds						Qvalue
2) 1,4-Dioxane	2.205	88	133470	23.02	ppm	96
3) Pyridine	2.531	79	303843	22.60	ppm #	57
4) N-Nitrosodimethylamine	2.504	74	242867	31.73	ppm #	1
6) Indene	5.077	116	665253	35.93	ppm	99
7) Cumene	4.194	105	919186	31.53	ppm	97
9) Phenol	4.601	94	531099	32.88	ppm	68
10) Aniline	4.595	93	308489	16.66	ppm	53
11) bis(2-Chloroethyl)ether	4.654	93	363694	34.71	ppm	91
12) 2-Chlorophenol	4.702	128	448154	35.06	ppm	90
13) Decane	4.729	57	547686	31.48	ppm	78
14) 1,3-Dichlorobenzene	4.820	146	459891	31.74	ppm	99
15) 1,4-Dichlorobenzene	4.884	146	448800	32.24	ppm	99
16) Benzyl alcohol	4.991	108	273407	37.96	ppm	98
17) 1,2-Dichlorobenzene	5.007	146	427627	33.06	ppm	97
18) Acetophenone	5.205	105	480099	34.74	ppm	87
19) 2-Methylphenol	5.098	108	345488	34.70	ppm	96
20) 2,2'-oxybis(1-Chloropr...	5.098	121	102919	29.18	ppm #	25
21) 3&4-Methylphenol	5.227	108	375406	36.15	ppm	96
22) n-Nitroso-di-n-propyla...	5.211	70	230945	33.39	ppm #	64
23) Hexachloroethane	5.285	201	135743	29.15	ppm #	74
26) Nitrobenzene	5.350	77	352400	33.30	ppm	92
27) Quinoline	6.221	129	754669	33.71	ppm	95
28) Isophorone	5.548	82	698937	35.63	ppm	81

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P2614\
Data File : 2p59953.D
Acq On : 8 Jun 2016 5:53 pm
Operator : robertl1
Sample : OP94471-MSD
Misc : op94471,e2p2614,30.4
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Jun 09 16:50:55 2016
Quant Method : C:\MSDCHEM\1\METHODS\M2P2606.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri Jun 03 08:53:01 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
29) 2-Nitrophenol	5.612	139	219687	35.96	ppm		94
30) 2,4-Dimethylphenol	5.660	107	395019	37.02	ppm		98
31) Benzoic acid	5.761	105	239185	31.09	ppm		93
32) bis(2-Chloroethoxy)met...	5.724	93	390842	34.46	ppm		96
33) 2,4-Dichlorophenol	5.820	162	361360	36.78	ppm		93
34) 2,6-Dichlorophenol	6.002	162	316437	35.27	ppm		98
36) 1,2,4-Trichlorobenzene	5.879	180	346993	33.32	ppm		93
38) Naphthalene	5.943	128	1025933	33.05	ppm		99
39) 4-Chloroaniline	5.991	127	258311	19.69	ppm		99
40) 2,3-Dichloroaniline	6.746	161	346691	30.00	ppm		92
41) Caprolactam	6.296	113	121226	33.77	ppm	#	77
42) Hexachlorobutadiene	6.040	225	193701	34.40	ppm		93
43) 4-Chloro-3-methylphenol	6.409	107	351991	37.36	ppm		81
44) 2-Methylnaphthalene	6.516	141	617600	33.81	ppm		97
45) 1-Methylnaphthalene	6.596	141	625006	33.36	ppm		94
46) Dimethylnaphthalene	7.029	156	626286	33.04	ppm		97
48) Hexachlorocyclopentadiene	6.639	237	152661	24.33	ppm		94
49) 2,4,6-Trichlorophenol	6.756	196	242692	36.62	ppm		99
50) 2,4,5-Trichlorophenol	6.794	196	251350	35.22	ppm		99
52) 2-Chloronaphthalene	6.917	162	630961	32.10	ppm		99
53) Biphenyl	6.895	154	843770	33.09	ppm		95
54) 2-Nitroaniline	7.008	65	237576	38.24	ppm		86
55) Dimethylphthalate	7.147	163	760825	34.31	ppm		98
56) Acenaphthylene	7.259	152	1073899	32.95	ppm		99
57) 2,6-Dinitrotoluene	7.206	165	170453	35.00	ppm		82
58) 3-Nitroaniline	7.345	138	180132	29.12	ppm		96
59) Acenaphthene	7.398	153	659778	34.27	ppm		97
60) 2,4-Dinitrophenol	7.436	184	60267	23.39	ppm	#	100
61) 4-Nitrophenol	7.510	109	110058	39.46	ppm		88
62) Dibenzofuran	7.543	168	894996	34.00	ppm		98
63) 2,4-Dinitrotoluene	7.537	165	207707	33.24	ppm		78
64) 2,3,4,6-Tetrachlorophenol	7.650	232	208909	34.75	ppm		94
65) Diethylphthalate	7.735	149	768596	35.89	ppm		95
66) Fluorene	7.831	166	727263	34.02	ppm		97
67) 4-Chlorophenyl-phenyle...	7.831	204	341137	34.34	ppm		96
68) 4-Nitroaniline	7.858	138	215346	35.28	ppm		96
70) 4,6-Dinitro-2-methylph...	7.890	198	55346	15.99	ppm		83
71) n-Nitrosodiphenylamine	7.938	169	573403	38.81	ppm		98
72) 1,2-Diphenylhydrazine	7.970	77	677515	35.70	ppm		88
74) 4-Bromophenyl-phenylether	8.275	248	233830	37.64	ppm		87
75) Hexachlorobenzene	8.334	284	235343	34.67	ppm		81
76) Pentachlorophenol	8.532	266	133950	29.60	ppm		96
77) Phenanthrene	8.741	178	1076981	35.72	ppm		98
78) Anthracene	8.794	178	1074080	35.68	ppm		99
79) Carbazole	8.971	167	1087850	36.57	ppm		97
80) Di-n-butylphthalate	9.356	149	1443998	39.59	ppm		99
81) Fluoranthene	10.105	202	1344978	37.27	ppm		92
82) Octadecane	8.596	43	678906m	42.68	ppm		
84) Pyrene	10.393	202	1381329	43.41	ppm		99
86) Butylbenzylphthalate	11.329	149	640601	45.02	ppm		92

SGS ACCUTEST JC21347

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P2614\
Data File : 2p59953.D
Acq On : 8 Jun 2016 5:53 pm
Operator : robertl1
Sample : OP94471-MSD
Misc : op94471,e2p2614,30.4
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Jun 09 16:50:55 2016
Quant Method : C:\MSDCHEM\1\METHODS\M2P2606.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri Jun 03 08:53:01 2016
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
87)	Benzo[a]anthracene	12.078	228	1045090	36.33	ppm	99
88)	3,3'-Dichlorobenzidine	12.073	252	696516	67.37	ppm	94
89)	Chrysene	12.126	228	974647	37.01	ppm	99
90)	bis(2-Ethylhexyl)phtha...	12.201	149	723434	42.25	ppm	99
92)	Di-n-octylphthalate	13.159	149	1193270m	43.31	ppm	
93)	Benzo[b]fluoranthene	13.603	252	911529	36.81	ppm	91
94)	Benzo[k]fluoranthene	13.640	252	823751	38.35	ppm	90
95)	Benzo[a]pyrene	14.030	252	817852	37.50	ppm	91
96)	Indeno[1,2,3-cd]pyrene	15.646	276	728584	36.70	ppm	79
98)	Dibenz[a,h]anthracene	15.683	278	707624	35.96	ppm	90
99)	7,12-Dimethylbenz(a)an...	13.597	256	402585	37.04	ppm	97
100)	Benzo[g,h,i]perylene	16.084	276	736849	35.08	ppm	86
102)	Benzaldehyde	4.505	105	312838	37.33	ppm	91
106)	Atrazine	8.436	215	113931	39.47	ppm	98
107)	1,2,4,5-Tetrachloroben...	6.649	216	360437	36.77	ppm	99
109)	Benzidine	10.292	184	40206	4.20	ppm	92

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

7.4.4

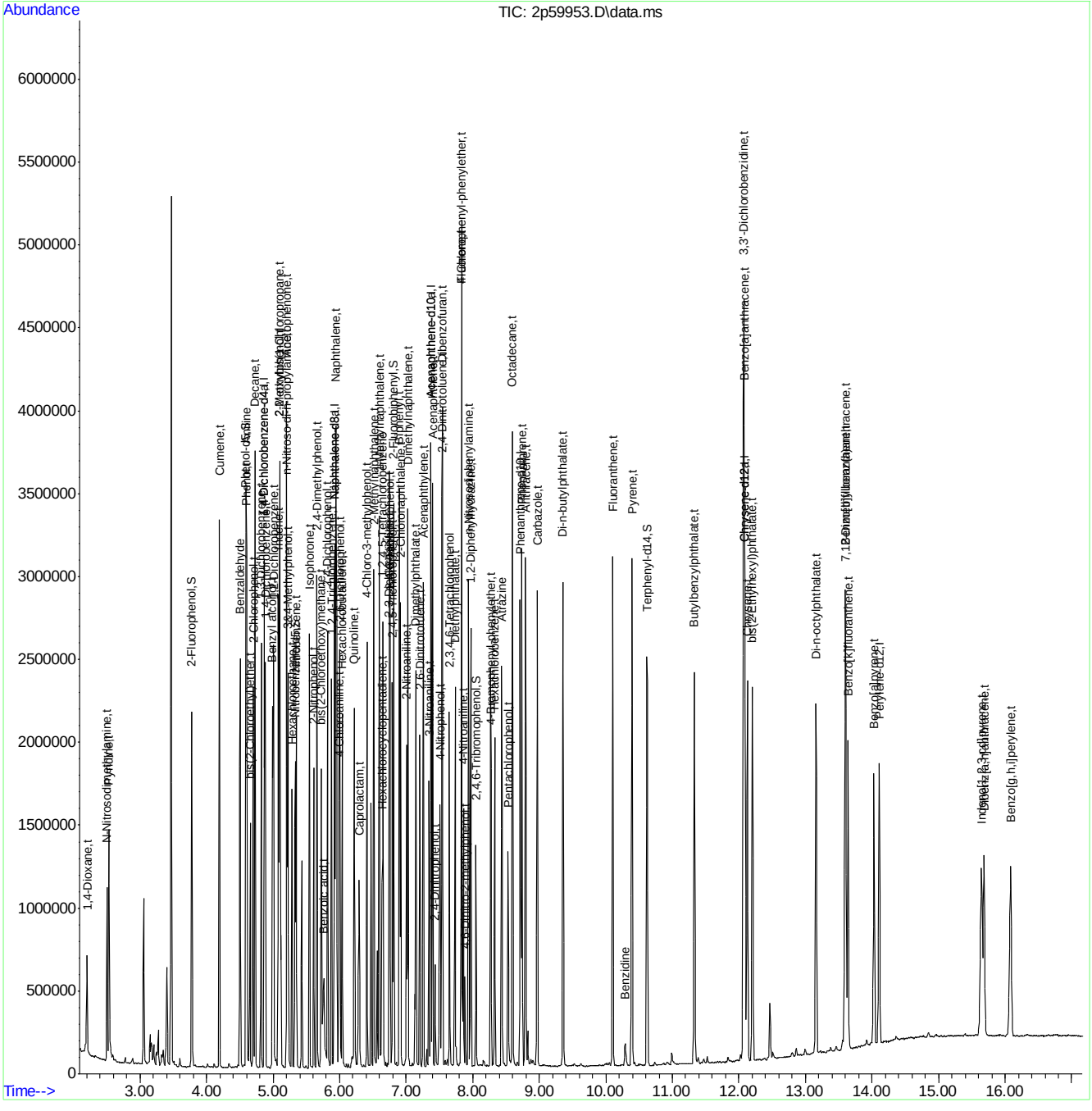
7

SGS ACCUTEST JC21347

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P2614\
Data File : 2p59953.D
Acq On : 8 Jun 2016 5:53 pm
Operator : robertl1
Sample : OP94471-MSD
Misc : op94471,e2p2614,30.4
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Jun 09 16:50:55 2016
Quant Method : C:\MSDCHEM\1\METHODS\M2P2606.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri Jun 03 08:53:01 2016
Response via : Initial Calibration



SGS ACCUTEST JC21347

Manual Integration Approval Summary

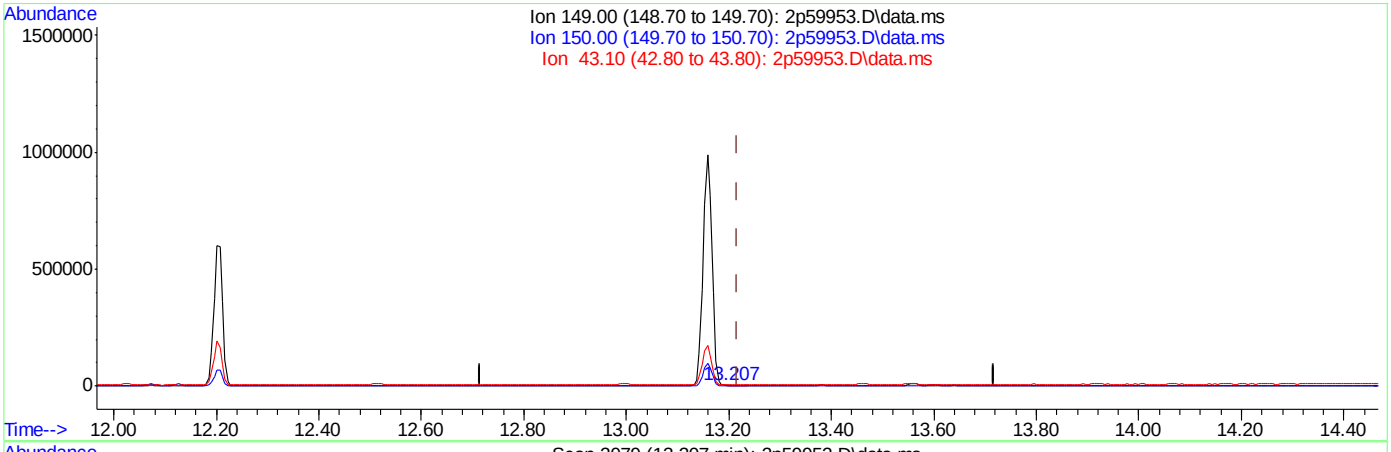
Sample Number:	OP94471-MSD	**Method:**	SW846 8270D
Lab FileID:	2P59953.D	**Analyst approved:**	06/09/16 16:53 Arielle Cocozza
Injection Time:	06/08/16 17:53	**Supervisor approved:**	06/14/16 13:58 Owen McKenna

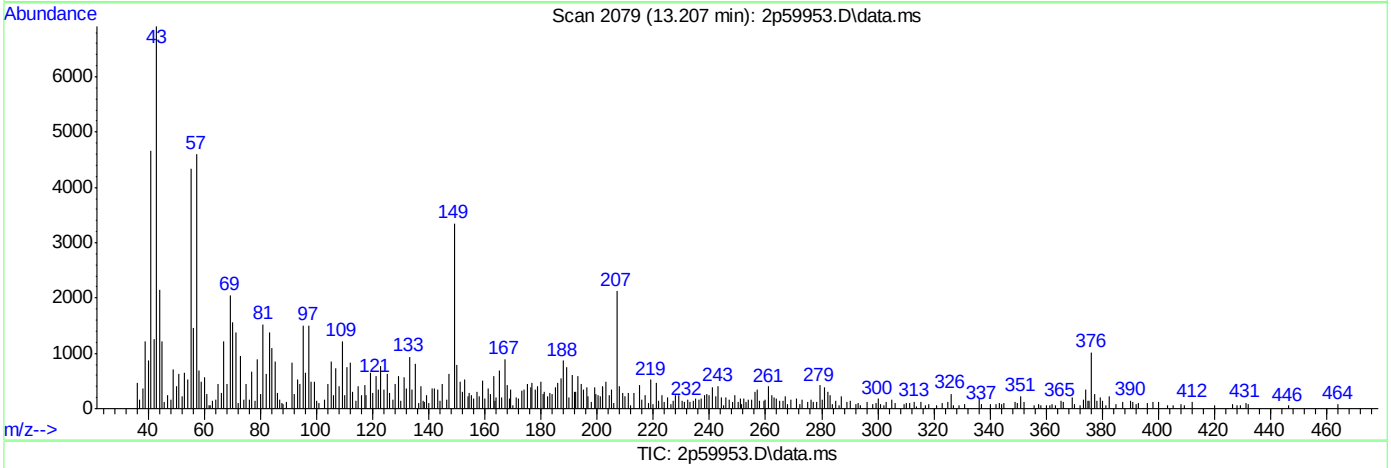
Parameter	CAS	Sig#	R.T. (min.)	Reason
Octadecane	593-45-3		8.60	Poor instrument integration
Di-n-octyl phthalate	117-84-0		13.16	Poor instrument integration

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2P2614\
Data File : 2p59953.D
Acq On : 8 Jun 2016 5:53 pm
Operator : robertl1
Sample : OP94471-MSD
Misc : op94471,e2p2614,30.4
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Jun 08 18:09:03 2016
Quant Method : C:\MSDCHEM\1\METHODS\M2P2606.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri Jun 03 08:53:01 2016
Response via : Initial Calibration





TIC: 2p59953.D\data.ms

(92) Di-n-octylphthalate (t)

13.207min (-0.010) 0.15ppm

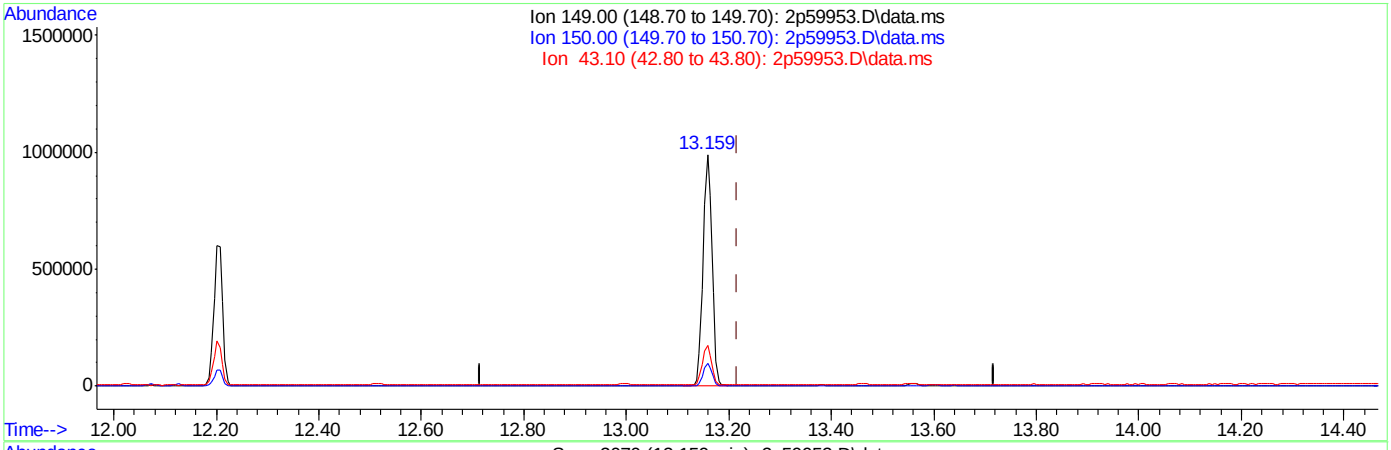
response 4144

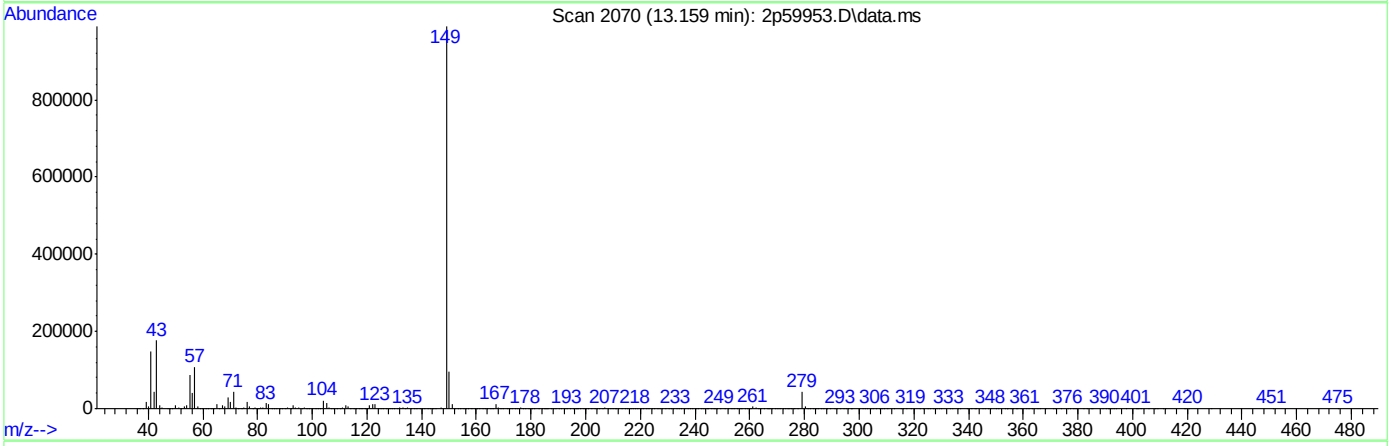
Ion	Exp%	Act%
149.00	100	100
150.00	10.30	25.01
43.10	14.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2P2614\
Data File : 2p59953.D
Acq On : 8 Jun 2016 5:53 pm
Operator : robertl1
Sample : OP94471-MSD
Misc : op94471,e2p2614,30.4
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Jun 08 18:09:03 2016
Quant Method : C:\MSDCHEM\1\METHODS\M2P2606.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri Jun 03 08:53:01 2016
Response via : Initial Calibration





TIC: 2p59953.D\data.ms

(92) Di-n-octylphthalate (t)

13.159min (-0.058) 43.31ppm m

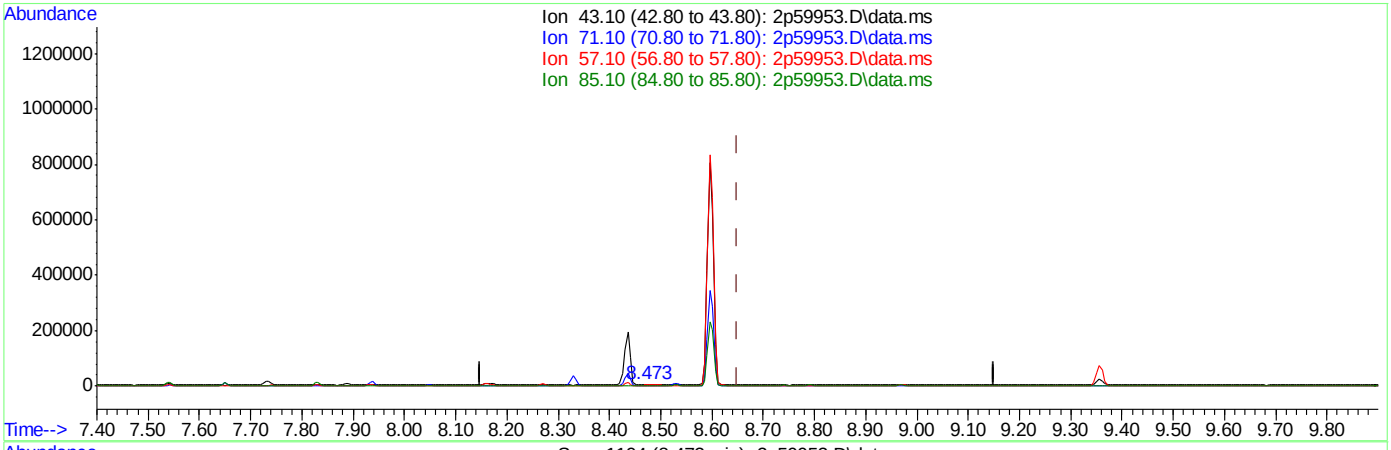
response 1193270

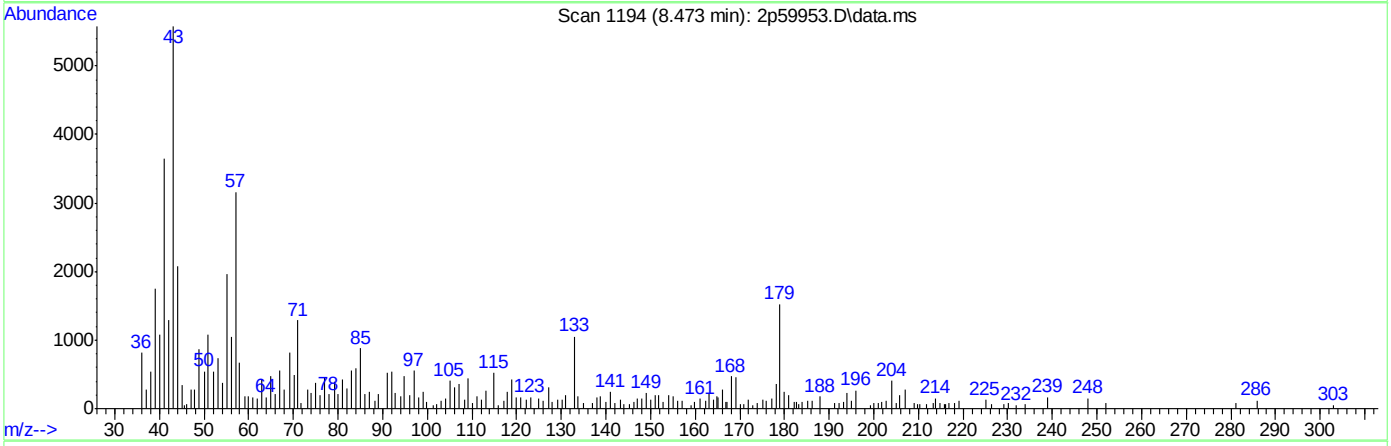
Ion	Exp%	Act%
149.00	100	100
150.00	10.30	9.78
43.10	14.00	17.76
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2P2614\
Data File : 2p59953.D
Acq On : 8 Jun 2016 5:53 pm
Operator : robertl1
Sample : OP94471-MSD
Misc : op94471,e2p2614,30.4
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Jun 09 16:42:20 2016
Quant Method : C:\MSDCHEM\1\METHODS\M2P2606.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri Jun 03 08:53:01 2016
Response via : Initial Calibration





TIC: 2p59953.D\data.ms

(82) Octadecane (t)

8.473min (-0.177) 0.10ppm

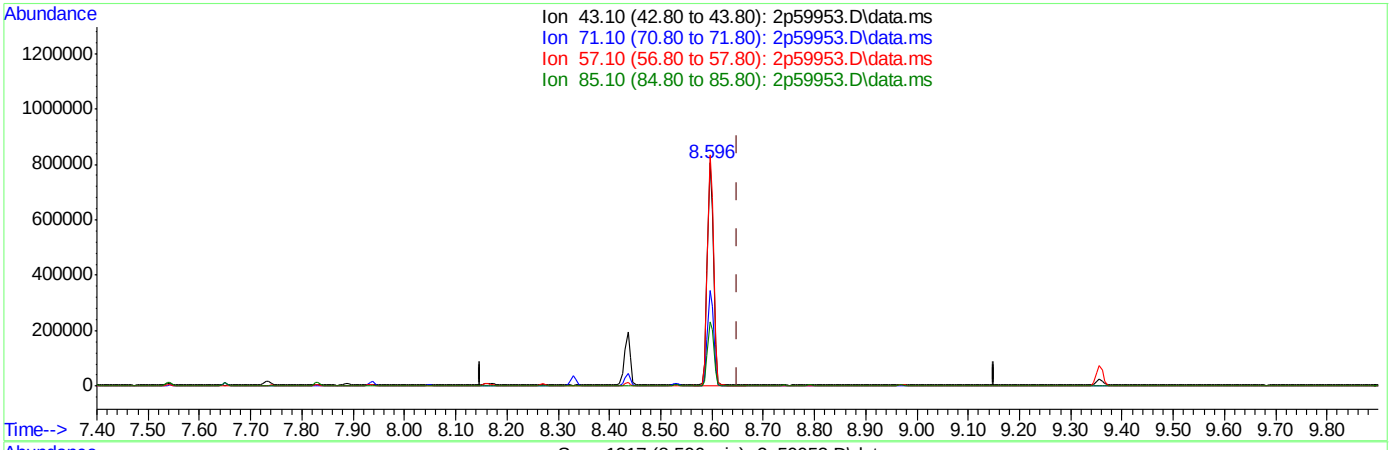
response 1644

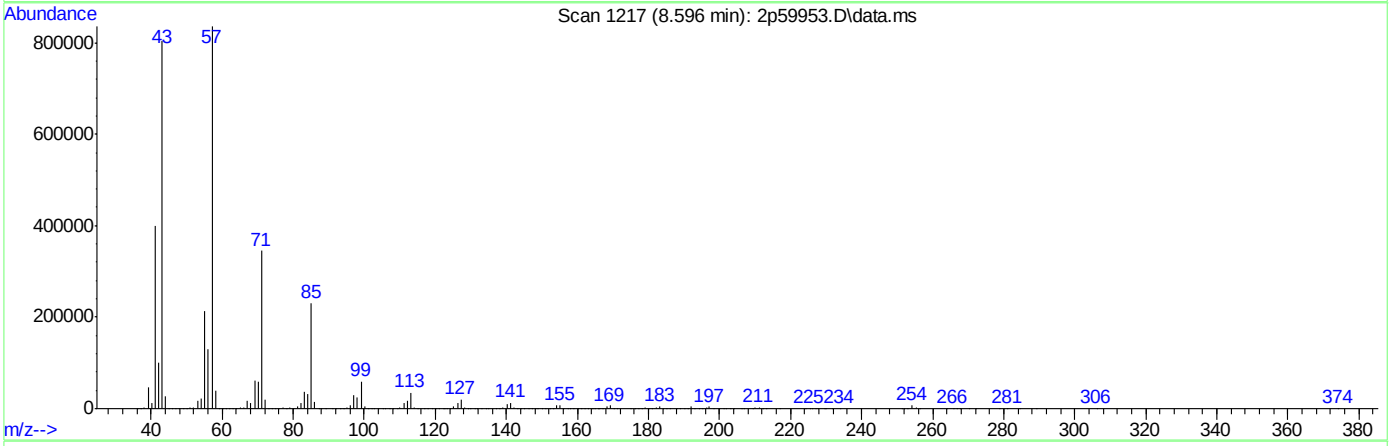
Ion	Exp%	Act%
43.10	100	100
71.10	74.90	79.27
57.10	146.10	146.12
85.10	45.30	19.73

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2P2614\
Data File : 2p59953.D
Acq On : 8 Jun 2016 5:53 pm
Operator : robertl1
Sample : OP94471-MSD
Misc : op94471,e2p2614,30.4
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Jun 09 16:42:20 2016
Quant Method : C:\MSDCHEM\1\METHODS\M2P2606.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri Jun 03 08:53:01 2016
Response via : Initial Calibration





TIC: 2p59953.D\data.ms

(82) Octadecane (t)

8.596min (-0.054) 42.68ppm m

response 678906

Ion	Exp%	Act%
43.10	100	100
71.10	74.90	42.78#
57.10	146.10	103.80#
85.10	45.30	28.63

SGS ACCUTEST JC21347

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2934\
Data File : 3m62203.D
Acq On : 14 Jun 2016 1:14 pm
Operator : linseyk
Sample : op94425a-ms
Misc : op94425a,e3m2934,500
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 14 16:03:49 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2931SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Tue Jun 14 16:02:01 2016
Response via : Initial Calibration

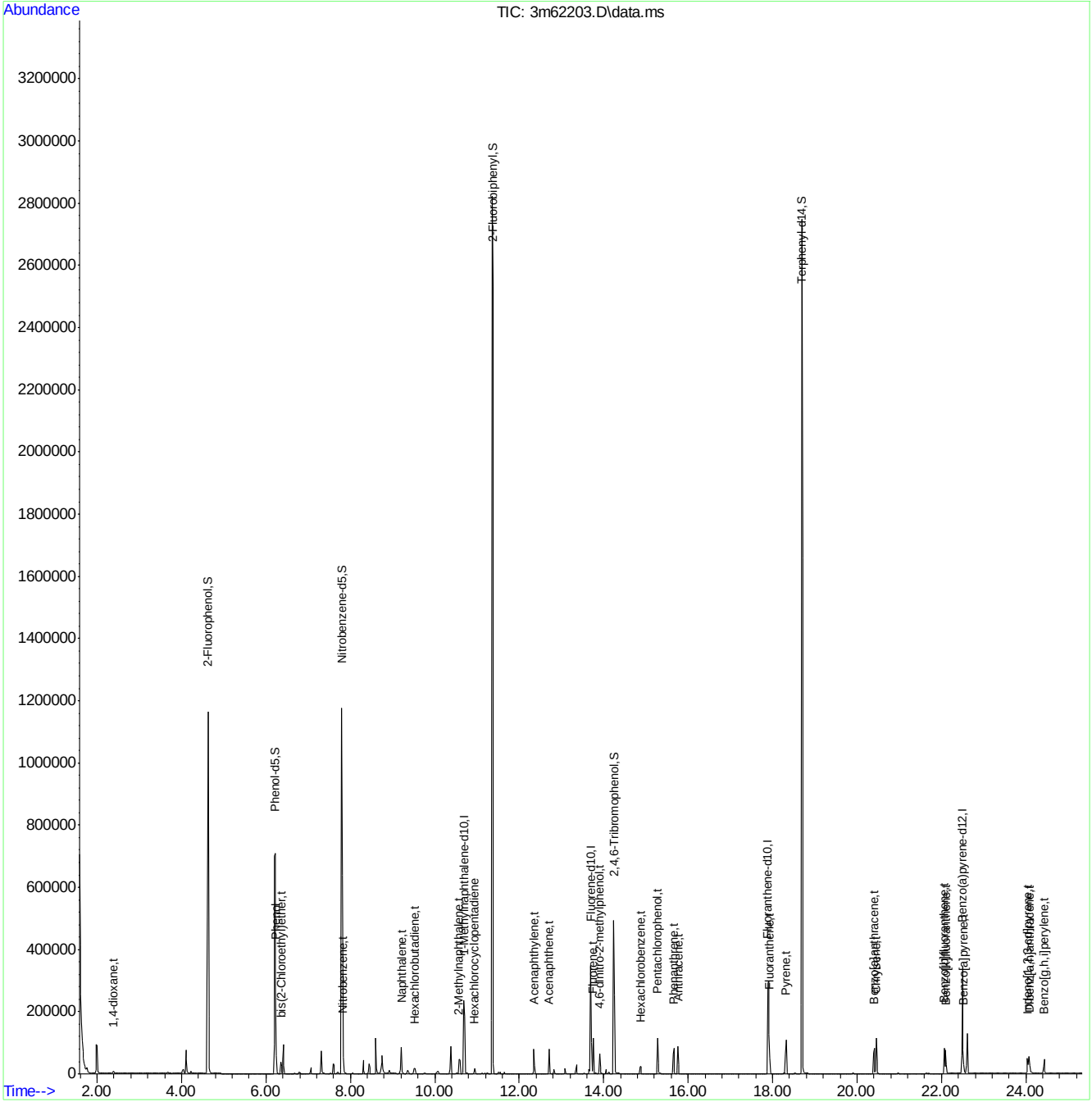
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	10.692	150	177835	4.00	ppm	-0.02
14) Fluorene-d10	13.692	176	263124	4.00	ppm	-0.02
21) Fluoranthene-d10	17.890	212	436247	4.00	ppm	-0.03
31) Benzo(a)pyrene-d12	22.494	264	336639	4.00	ppm	-0.02
System Monitoring Compounds						
3) 2-Fluorophenol	4.631	112	747711	30.78	ppm	0.00
Spiked Amount 50.000			Recovery = 61.56%			
4) Phenol-d5	6.209	99	947095	24.82	ppm	-0.02
Spiked Amount 50.000			Recovery = 49.64%			
7) Nitrobenzene-d5	7.796	82	1452544	32.72	ppm	-0.02
Spiked Amount 50.000			Recovery = 65.44%			
15) 2-Fluorobiphenyl	11.375	172	2953998	39.34	ppm	-0.02
Spiked Amount 50.000			Recovery = 78.68%			
20) 2,4,6-Tribromophenol	14.238	330	361037	43.60	ppm	-0.04
Spiked Amount 50.000			Recovery = 87.20%			
28) Terphenyl-d14	18.694	244	2680831	40.62	ppm	-0.03
Spiked Amount 50.000			Recovery = 81.24%			
Target Compounds						Qvalue
2) 1,4-dioxane	2.390	88	4952	0.52	ppm #	28
5) Phenol	6.234	94	128033	3.24	ppm #	88
6) bis(2-Chloroethyl)ether	6.355	93	20893	0.76	ppm #	28
8) Nitrobenzene	7.833	77	41538	0.85	ppm	92
9) Naphthalene	9.208	128	84379	0.82	ppm	100
10) Hexachlorobutadiene	9.528	225	14277	0.68	ppm #	57
11) 2-Methylnaphthalene	10.569	141	39527	0.70	ppm #	43
13) Hexachlorocyclopentadiene	10.939	237	12336	0.55	ppm	100
16) Acenaphthylene	12.349	152	78470	0.80	ppm	94
17) Acenaphthene	12.705	153	56002	0.88	ppm	87
18) 4,6-dinitro-2-methylph...	13.899	198	50464	5.46	ppm #	1
19) Fluorene	13.748	166	70426	0.95	ppm	75
22) Hexachlorobenzene	14.877	284	18177	0.91	ppm	70
23) Pentachlorophenol	15.279	266	69182	6.16	ppm	95
24) Phenanthrene	15.665	178	105514	1.04	ppm	99
25) Anthracene	15.758	178	90098	0.92	ppm	99
26) Fluoranthene	17.921	202	120634	0.95	ppm	100
27) Pyrene	18.323	202	120349	1.01	ppm	99
29) Benzo[a]anthracene	20.409	228	98064	0.88	ppm	97
30) Chrysene	20.455	228	99315	0.85	ppm	97
32) Benzo[b]fluoranthene	22.062	252	81843	0.68	ppm	97
33) Benzo[k]fluoranthene	22.099	252	80445	0.81	ppm	99
34) Benzo[a]pyrene	22.513	252	61126	0.58	ppm	99
35) Indeno[1,2,3-cd]pyrene	24.037	276	70806	0.60	ppm	94
36) Dibenz[a,h]anthracene	24.074	278	50295	0.54	ppm	84
37) Benzo[g,h,i]perylene	24.432	276	56129	0.56	ppm	100

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2934\
Data File : 3m62203.D
Acq On : 14 Jun 2016 1:14 pm
Operator : linseyk
Sample : op94425a-ms
Misc : op94425a,e3m2934,500
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 14 16:03:49 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2931SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Tue Jun 14 16:02:01 2016
Response via : Initial Calibration



SGS ACCUTEST JC21347

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2934\
Data File : 3m62204.D
Acq On : 14 Jun 2016 1:47 pm
Operator : linseyk
Sample : op94425a-msd
Misc : op94425a,e3m2934,500
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 14 16:04:18 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2931SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Tue Jun 14 16:02:01 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	10.713	150	174532	4.00	ppm	0.00
14) Fluorene-d10	13.692	176	252379	4.00	ppm	-0.02
21) Fluoranthene-d10	17.906	212	424959	4.00	ppm	-0.01
31) Benzo(a)pyrene-d12	22.494	264	338868	4.00	ppm	-0.02
System Monitoring Compounds						
3) 2-Fluorophenol	4.631	112	640551	26.87	ppm	0.00
Spiked Amount 50.000			Recovery = 53.74%			
4) Phenol-d5	6.210	99	821543	21.93	ppm	-0.02
Spiked Amount 50.000			Recovery = 43.86%			
7) Nitrobenzene-d5	7.796	82	1114319	25.58	ppm	-0.02
Spiked Amount 50.000			Recovery = 51.16%			
15) 2-Fluorobiphenyl	11.375	172	2108652	29.28	ppm	-0.02
Spiked Amount 50.000			Recovery = 58.56%			
20) 2,4,6-Tribromophenol	14.238	330	254966	32.10	ppm	-0.04
Spiked Amount 50.000			Recovery = 64.20%			
28) Terphenyl-d14	18.694	244	2074981	32.28	ppm	-0.03
Spiked Amount 50.000			Recovery = 64.56%			
Target Compounds						Qvalue
2) 1,4-dioxane	2.391	88	3939	0.42	ppm #	26
5) Phenol	6.234	94	100185	2.59	ppm #	78
6) bis(2-Chloroethyl)ether	6.355	93	15957	0.59	ppm #	22
8) Nitrobenzene	7.833	77	29140	0.61	ppm	93
9) Naphthalene	9.208	128	60897	0.60	ppm	100
10) Hexachlorobutadiene	9.528	225	11083	0.53	ppm #	58
11) 2-Methylnaphthalene	10.590	141	29362	0.53	ppm	98
13) Hexachlorocyclopentadiene	10.939	237	8704	0.40	ppm	100
16) Acenaphthylene	12.349	152	55844	0.59	ppm	94
17) Acenaphthene	12.705	153	37818	0.62	ppm	88
18) 4,6-dinitro-2-methylph...	13.899	198	26162	3.13	ppm #	1
19) Fluorene	13.749	166	48683	0.69	ppm	74
22) Hexachlorobenzene	14.877	284	12914	0.66	ppm	71
23) Pentachlorophenol	15.279	266	39146	3.62	ppm	97
24) Phenanthrene	15.665	178	71012	0.72	ppm	99
25) Anthracene	15.758	178	64117	0.67	ppm	99
26) Fluoranthene	17.922	202	82738	0.67	ppm	99
27) Pyrene	18.323	202	84732	0.73	ppm	99
29) Benzo[a]anthracene	20.409	228	70954	0.65	ppm	98
30) Chrysene	20.456	228	76249	0.67	ppm	99
32) Benzo[b]fluoranthene	22.062	252	65041	0.53	ppm	97
33) Benzo[k]fluoranthene	22.099	252	64680	0.65	ppm	98
34) Benzo[a]pyrene	22.513	252	55735	0.52	ppm	100
35) Indeno[1,2,3-cd]pyrene	24.037	276	65236	0.55	ppm	95
36) Dibenz[a,h]anthracene	24.074	278	45291	0.48	ppm	85
37) Benzo[g,h,i]perylene	24.432	276	52627	0.52	ppm	100

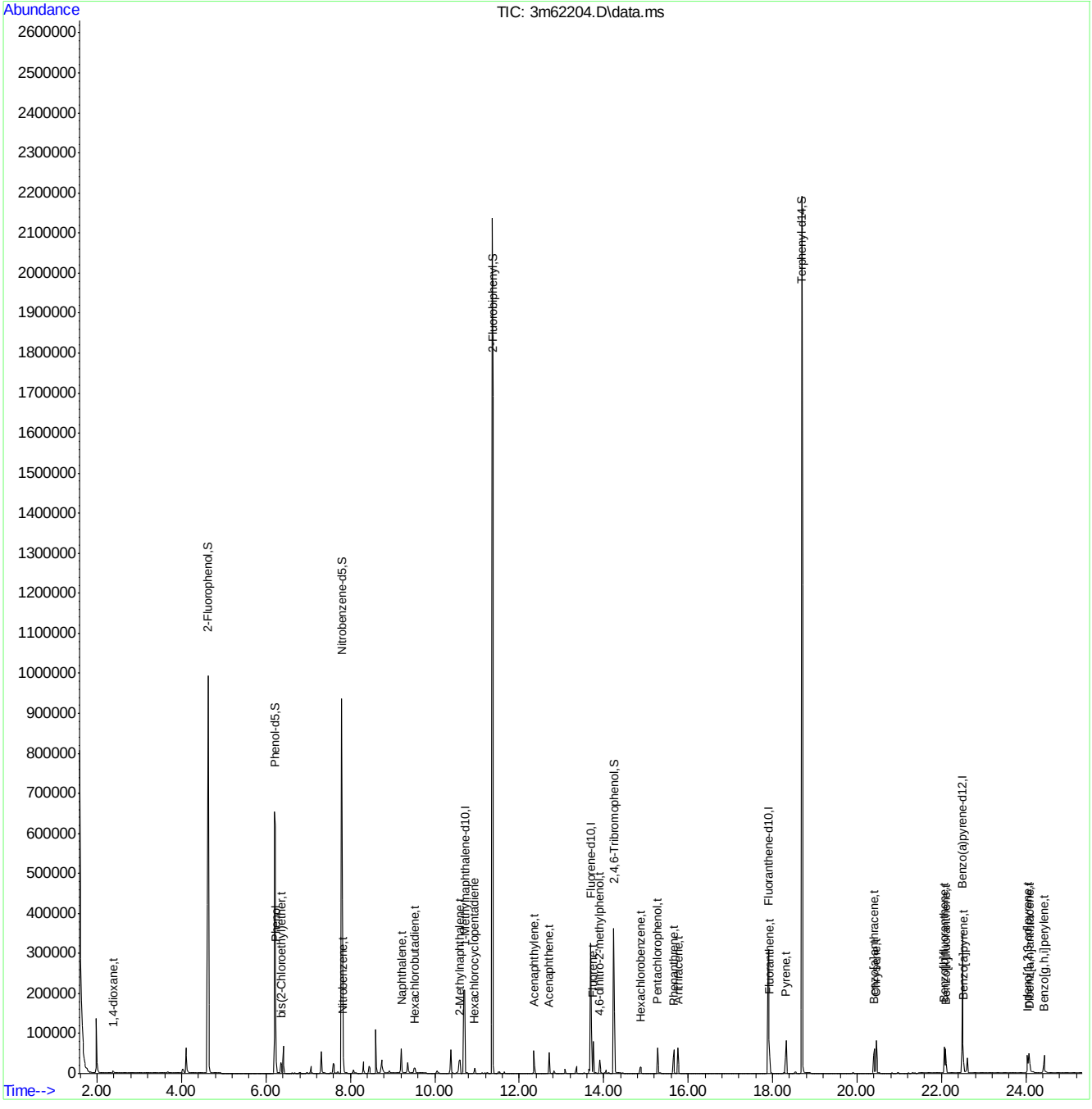
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC21347

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2934\
Data File : 3m62204.D
Acq On : 14 Jun 2016 1:47 pm
Operator : linseyk
Sample : op94425a-msd
Misc : op94425a,e3m2934,500
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 14 16:04:18 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2931SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Tue Jun 14 16:02:01 2016
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2930\
Data File : 3m62163.D
Acq On : 11 Jun 2016 5:31 am
Operator : juliusj
Sample : op94471a-ms
Misc : op94471a,e3m2930,30.3
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Jun 13 10:39:20 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2887SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu Jun 09 10:49:16 2016
Response via : Initial Calibration

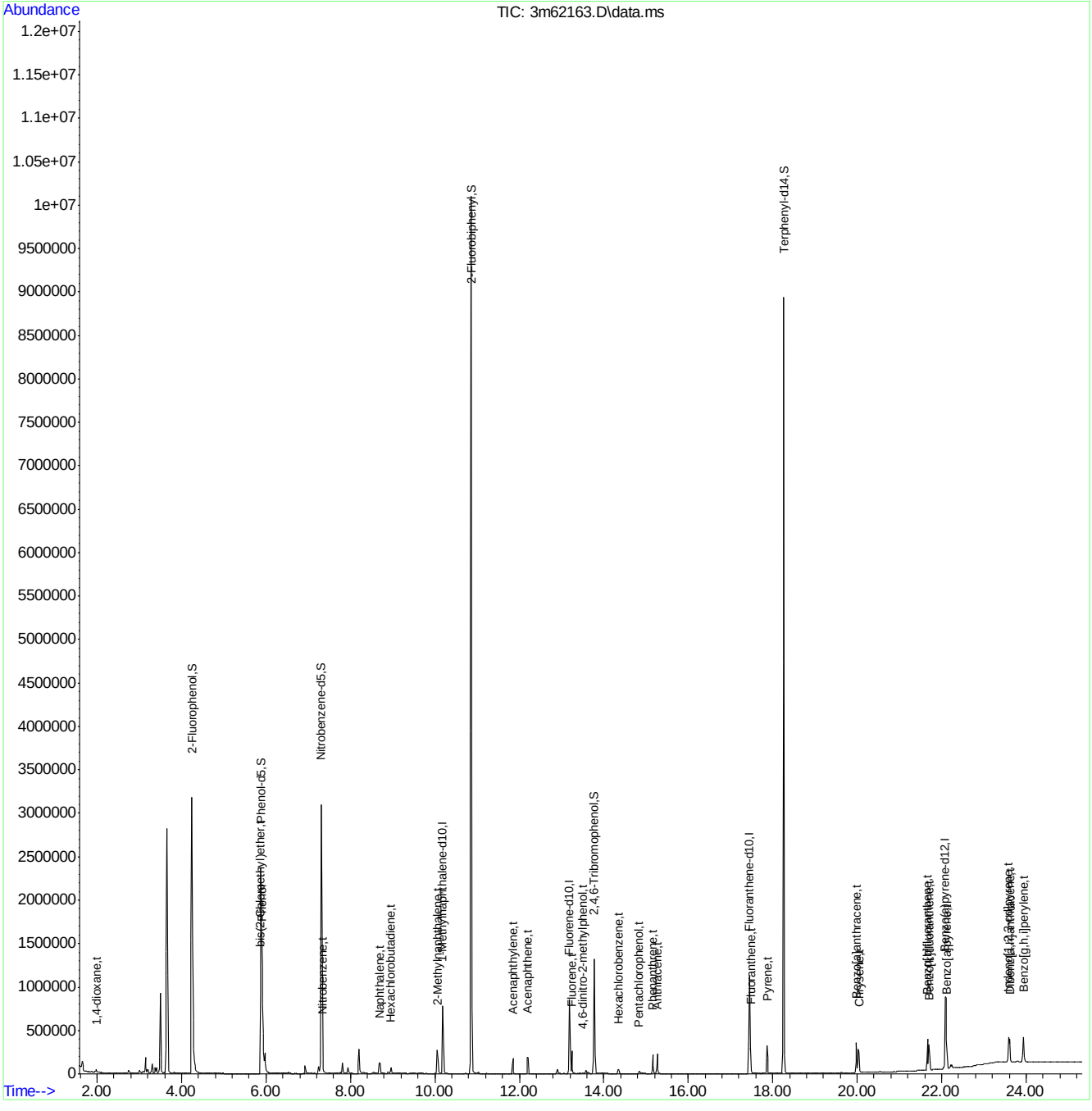
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	10.180	150	538492	4.00	ppm	0.06
14) Fluorene-d10	13.186	176	714733	4.00	ppm	0.08
21) Fluoranthene-d10	17.448	212	1187875	4.00	ppm	0.09
31) Benzo(a)pyrene-d12	22.084	264	1112794	4.00	ppm	0.11
System Monitoring Compounds						
3) 2-Fluorophenol	4.245	112	3228261	46.88	ppm	0.06
Spiked Amount 50.000			Recovery = 93.76%			
4) Phenol-d5	5.883	99	4553906	41.07	ppm	0.09
Spiked Amount 50.000			Recovery = 82.14%			
7) Nitrobenzene-d5	7.306	82	3599210	38.47	ppm	0.00
Spiked Amount 50.000			Recovery = 76.94%			
15) 2-Fluorobiphenyl	10.862	172	8169484	46.22	ppm	0.05
Spiked Amount 50.000			Recovery = 92.44%			
20) 2,4,6-Tribromophenol	13.770	330	799521	46.05	ppm	0.10
Spiked Amount 50.000			Recovery = 92.10%			
28) Terphenyl-d14	18.267	244	8461359	51.02	ppm	0.10
Spiked Amount 50.000			Recovery = 102.04%			
Target Compounds						Qvalue
2) 1,4-dioxane	1.989	88	21506	0.70	ppm #	8
5) Phenol	5.907	94	529204	4.56	ppm #	88
6) bis(2-Chloroethyl)ether	5.871	93	92494	1.11	ppm #	76
8) Nitrobenzene	7.344	77	88547	0.92	ppm	72
9) Naphthalene	8.699	128	223438	0.74	ppm	91
10) Hexachlorobutadiene	8.963	225	39965	0.84	ppm	74
11) 2-Methylnaphthalene	10.057	141	146331	0.92	ppm #	1
16) Acenaphthylene	11.851	152	214536	0.94	ppm	90
17) Acenaphthene	12.207	153	142568	0.94	ppm #	71
18) 4,6-dinitro-2-methylph...	13.507	198	7550	1.26	ppm	85
19) Fluorene	13.243	166	172514	0.93	ppm	84
22) Hexachlorobenzene	14.341	284	39256	0.75	ppm	85
23) Pentachlorophenol	14.836	266	45655	2.42	ppm	99
24) Phenanthrene	15.161	178	242335	0.87	ppm	91
25) Anthracene	15.269	178	243450	0.97	ppm	94
26) Fluoranthene	17.479	202	325018	0.96	ppm	96
27) Pyrene	17.866	202	362272	1.20	ppm	97
29) Benzo[a]anthracene	19.982	228	328644	1.22	ppm	96
30) Chrysene	20.044	228	296273	1.07	ppm	86
32) Benzo[b]fluoranthene	21.666	252	336003	0.97	ppm	95
33) Benzo[k]fluoranthene	21.697	252	299349	0.99	ppm	88
34) Benzo[a]pyrene	22.115	252	307450	0.99	ppm	98
35) Indeno[1,2,3-cd]pyrene	23.581	276	363214	0.99	ppm	97
36) Dibenz[a,h]anthracene	23.619	278	297704	1.03	ppm	92
37) Benzo[g,h,i]perylene	23.938	276	315254	1.00	ppm	99

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2930\
Data File : 3m62163.D
Acq On : 11 Jun 2016 5:31 am
Operator : juliusj
Sample : op94471a-ms
Misc : op94471a,e3m2930,30.3
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Jun 13 10:39:20 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2887SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu Jun 09 10:49:16 2016
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2930\
Data File : 3m62164.D
Acq On : 11 Jun 2016 6:02 am
Operator : juliusj
Sample : op94471a-msd
Misc : op94471a,e3m2930,30.2
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Jun 13 10:39:42 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2887SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu Jun 09 10:49:16 2016
Response via : Initial Calibration

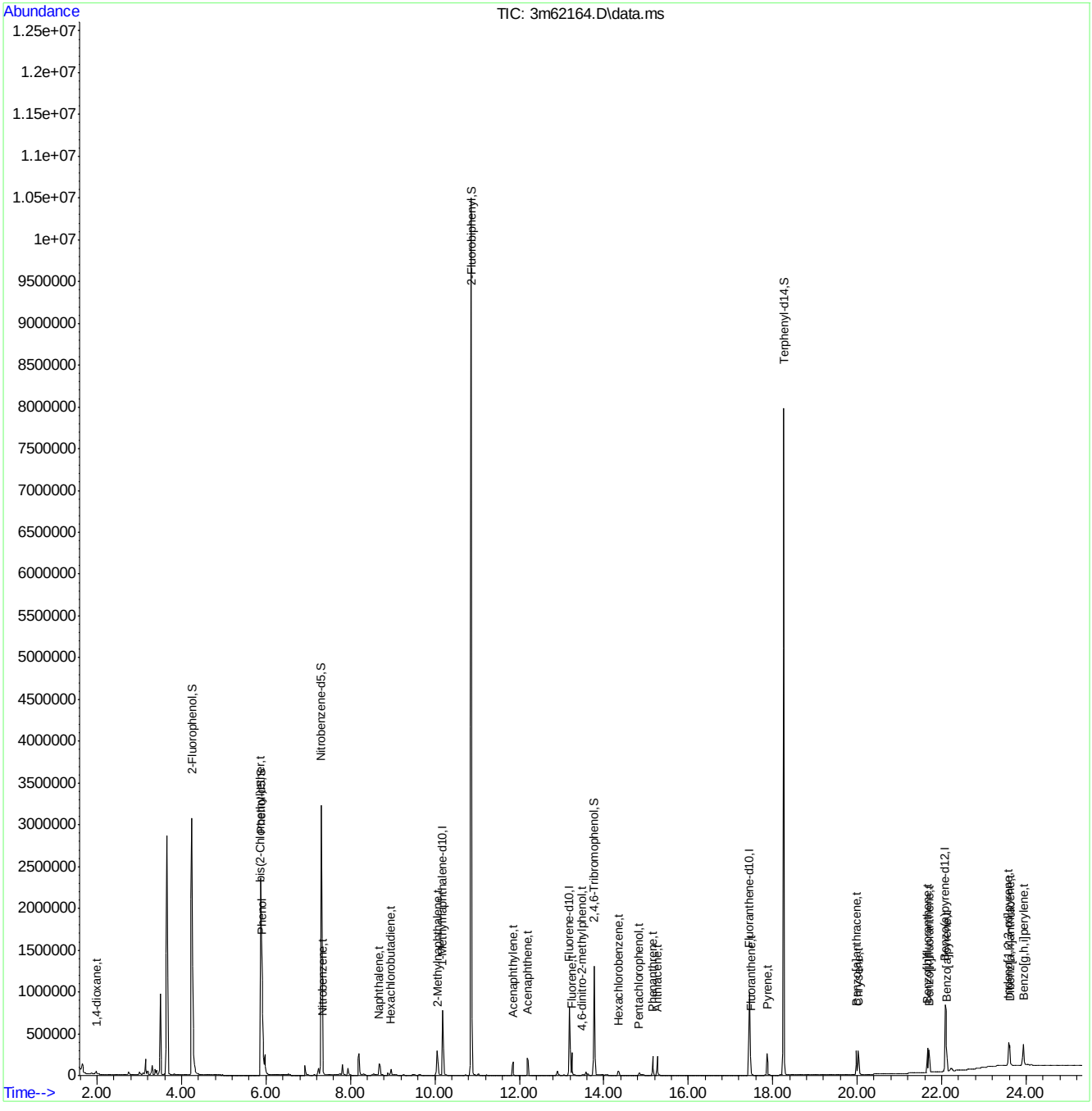
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	10.180	150	521157	4.00	ppm	0.06
14) Fluorene-d10	13.186	176	684537	4.00	ppm	0.08
21) Fluoranthene-d10	17.448	212	1105473	4.00	ppm	0.09
31) Benzo(a)pyrene-d12	22.084	264	1029085	4.00	ppm	0.11
System Monitoring Compounds						
3) 2-Fluorophenol	4.245	112	3199041	48.00	ppm	0.06
Spiked Amount 50.000			Recovery = 96.00%			
4) Phenol-d5	5.883	99	4799129	44.73	ppm	0.09
Spiked Amount 50.000			Recovery = 89.46%			
7) Nitrobenzene-d5	7.306	82	3744617	41.35	ppm	0.00
Spiked Amount 50.000			Recovery = 82.70%			
15) 2-Fluorobiphenyl	10.862	172	8442467	49.87	ppm	0.05
Spiked Amount 50.000			Recovery = 99.74%			
20) 2,4,6-Tribromophenol	13.770	330	794487	47.78	ppm	0.10
Spiked Amount 50.000			Recovery = 95.56%			
28) Terphenyl-d14	18.267	244	8121043	52.62	ppm	0.10
Spiked Amount 50.000			Recovery = 105.24%			
Target Compounds						Qvalue
2) 1,4-dioxane	1.989	88	21274	0.72	ppm #	4
5) Phenol	5.907	94	584618	5.20	ppm #	68
6) bis(2-Chloroethyl)ether	5.871	93	96646	1.20	ppm	75
8) Nitrobenzene	7.344	77	82913	0.89	ppm	71
9) Naphthalene	8.681	128	229365	0.78	ppm	97
10) Hexachlorobutadiene	8.963	225	40541	0.88	ppm	73
11) 2-Methylnaphthalene	10.057	141	154758	1.01	ppm #	1
16) Acenaphthylene	11.851	152	218067	0.99	ppm	89
17) Acenaphthene	12.191	153	149183	1.03	ppm	98
18) 4,6-dinitro-2-methylph...	13.488	198	10617	1.41	ppm #	57
19) Fluorene	13.243	166	180902	1.02	ppm	88
22) Hexachlorobenzene	14.341	284	39750	0.81	ppm	85
23) Pentachlorophenol	14.836	266	52960	2.89	ppm	99
24) Phenanthrene	15.161	178	244116	0.95	ppm	91
25) Anthracene	15.269	178	240837	1.03	ppm	94
26) Fluoranthene	17.479	202	282792	0.90	ppm	95
27) Pyrene	17.866	202	292931	1.04	ppm	97
29) Benzo[a]anthracene	19.982	228	286655	1.15	ppm	97
30) Chrysene	20.029	228	275842	1.07	ppm	98
32) Benzo[b]fluoranthene	21.666	252	289103	0.91	ppm	94
33) Benzo[k]fluoranthene	21.697	252	270271	0.97	ppm	89
34) Benzo[a]pyrene	22.115	252	271036	0.95	ppm	98
35) Indeno[1,2,3-cd]pyrene	23.581	276	336496	0.99	ppm	96
36) Dibenz[a,h]anthracene	23.619	278	282972	1.06	ppm	92
37) Benzo[g,h,i]perylene	23.938	276	291008	1.00	ppm	99

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2930\
Data File : 3m62164.D
Acq On : 11 Jun 2016 6:02 am
Operator : juliusj
Sample : op94471a-msd
Misc : op94471a,e3m2930,30.2
ALS Vial : 19 Sample Multiplier: 1

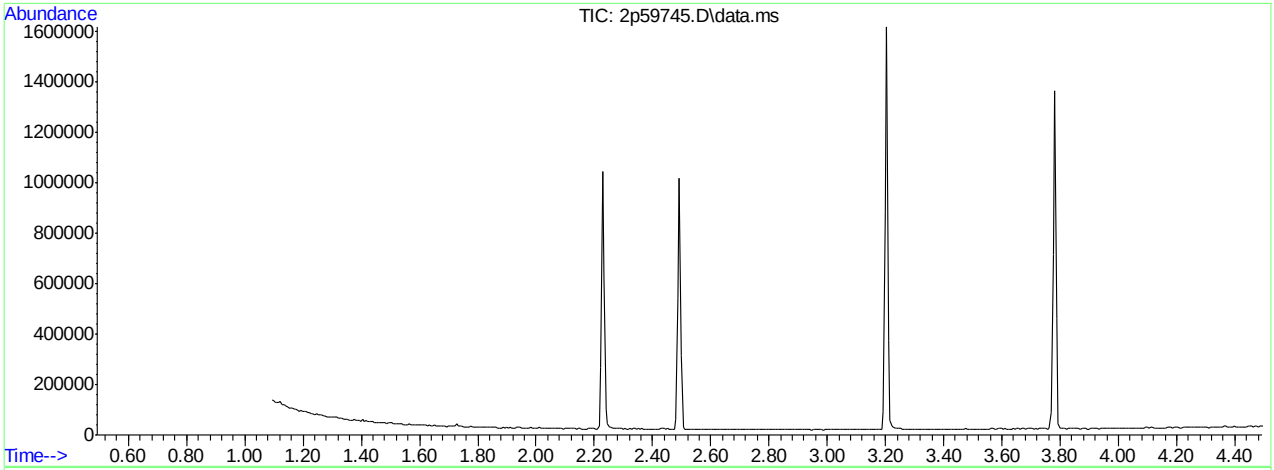
Quant Time: Jun 13 10:39:42 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2887SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu Jun 09 10:49:16 2016
Response via : Initial Calibration

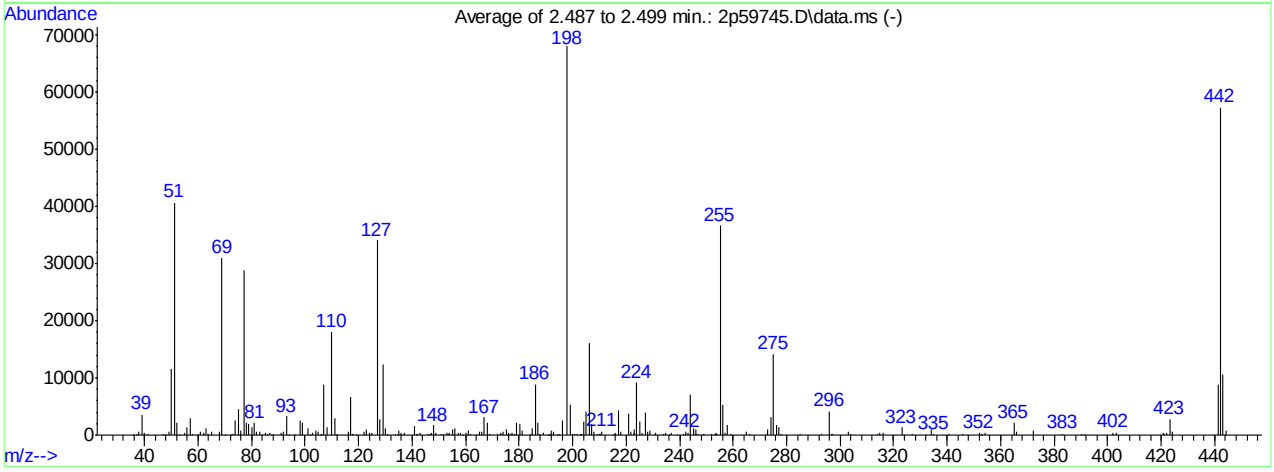


DFTPP

Data File : C:\msdchem\1\DATA\2P2606\2p59745.D Vial: 1
Acq On : 2 Jun 2016 10:31 am Operator: robertl1
Sample : DFTPP Inst : MS2P
Misc : op94078,e2p2606 Multiplr: 1.00
MS Integration Params: events.e

Method : C:\MSDCHEM\1\METHODS\DFTPP2P.M (ChemStation Integrator)
Title :





AutoFind: Scans 238, 239, 240; Background Corrected with Scan 235

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	59.8	40658	PASS
68	69	0.00	2	1.6	504	PASS
69	198	0.00	100	45.5	30884	PASS
70	69	0.00	2	0.3	93	PASS
127	198	40	60	50.1	34024	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	67944	PASS
199	198	5	9	7.7	5265	PASS
275	198	10	30	20.9	14189	PASS
365	198	1	100	3.1	2136	PASS
441	443	0.01	100	82.7	8745	PASS
442	198	40	100	84.3	57280	PASS
443	442	17	23	18.5	10576	PASS

2p59745.D DFTPP2P.M Fri Jun 03 10:04:08 2016 RPT1

Average of 2.487 to 2.499 min.: 2p59745.D\data.ms
DFTPP
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
35.95	40	52.05	2153	65.00	501	79.00	1884
36.95	200	53.00	95	67.95	504	79.95	1356
38.00	576	55.00	413	69.00	30884	81.05	2085
39.05	3534	56.00	1354	70.00	93	82.00	670
39.90	351	57.00	2930	72.80	110	83.00	546
41.00	193	57.80	133	73.10	259	83.95	82
46.95	166	60.00	188	74.00	2634	85.05	305
47.90	2	60.95	500	75.00	4595	85.90	300
49.00	521	62.10	468	76.10	792	86.90	334
50.00	11496	63.05	1228	77.10	28830	88.10	114
51.05	40658	64.00	225	78.10	2208	91.00	482

Average of 2.487 to 2.499 min.: 2p59745.D\data.ms
DFTPP
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
92.05	505	105.90	89	119.10	85	134.70	93
93.00	3304	106.10	195	121.95	632	135.00	775
94.00	102	107.05	8916	123.05	1014	135.95	332
95.90	100	108.05	1384	123.95	375	137.05	485
98.00	2510	110.00	17962	124.95	434	141.05	1638
99.00	2223	111.00	2961	127.05	34024	141.90	126
101.00	1132	112.00	137	128.10	2662	142.10	223
101.90	90	116.10	611	129.00	12299	143.00	320
102.90	424	117.00	6759	130.05	1188	145.95	224
104.05	781	117.80	122	131.00	125	146.95	299
105.05	503	118.00	233	133.90	273	147.20	345

Average of 2.487 to 2.499 min.: 2p59745.D\data.ms
DFTPP
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
148.00	1682	158.80	89	172.00	141	180.95	752
149.05	349	160.15	372	173.00	419	184.20	87
150.90	116	161.00	776	173.95	569	184.80	224
151.70	125	162.00	246	175.05	992	185.10	1163
152.95	369	164.10	86	175.80	104	186.10	8863
153.90	120	165.00	609	176.10	421	187.10	2181
154.05	312	166.10	529	177.00	109	188.00	139
155.05	962	167.00	3078	177.20	320	189.05	488
156.00	1212	168.00	2116	178.10	225	190.70	97
157.05	340	169.05	299	179.00	2156	191.10	105
157.90	384	171.80	103	180.10	2010	191.40	96

Average of 2.487 to 2.499 min.: 2p59745.D\data.ms
DFTPP
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
191.95	871	203.00	190	210.95	609	225.10	2357
192.80	225	203.20	293	214.90	95	226.15	317
193.00	675	203.50	111	215.80	87	227.00	3968
194.00	92	204.10	2422	216.10	324	228.00	588
195.00	164	205.10	4093	217.00	4329	228.95	814
196.05	2457	206.10	15981	218.05	596	230.70	85
198.00	67944	207.05	2005	221.05	3707	231.05	409
199.00	5265	207.95	532	221.85	548	233.90	210
200.10	247	209.00	135	223.00	329	234.95	370
201.00	144	209.95	244	223.20	943	236.00	101
201.60	269	210.50	231	224.05	9190	237.00	374

Average of 2.487 to 2.499 min.: 2p59745.D\data.ms
DFTPP
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
238.90	83	251.90	114	266.00	203	296.90	216
241.50	154	253.20	176	272.20	83	297.10	298
242.15	579	253.50	437	273.05	995	303.05	537
243.30	362	253.80	151	274.05	3222	304.00	120

244.10	7115	254.10	220	275.10	14189	313.90	137
245.05	1280	255.10	36627	276.10	1738	314.90	445
246.00	1055	256.10	5238	277.00	1423	316.05	344
246.20	155	256.95	381	278.00	228	323.00	1357
247.00	148	258.00	1843	285.20	203	324.10	88
248.80	114	258.95	234	293.00	176	327.00	183
249.05	281	265.00	676	296.10	4147	331.80	101

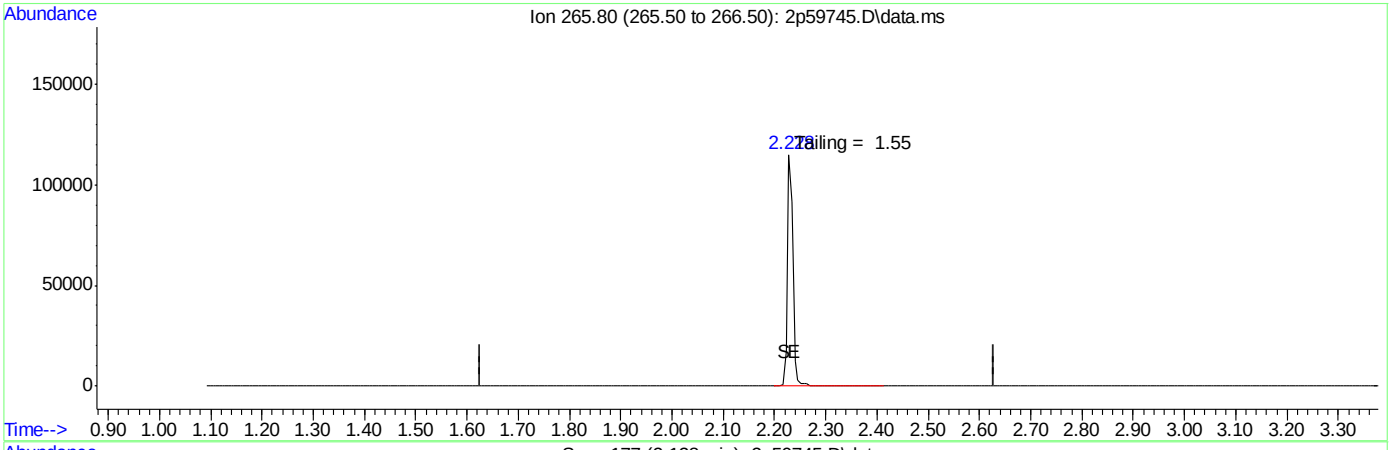
Average of 2.487 to 2.499 min.: 2p59745.D\data.ms
DFTPP
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
334.00	907	383.10	293	442.10	57280		
335.00	143	390.00	191	443.10	10576		
340.90	114	391.00	83	443.80	92		
345.95	250	402.00	449	444.05	766		
352.05	355	403.00	356				
352.90	100	420.90	318				
353.10	203	421.10	169				
354.10	475	422.10	372				
365.05	2136	423.10	2760				
366.05	523	424.05	642				
372.05	704	441.10	8745				

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2P2606\
Data File : 2p59745.D
Acq On : 2 Jun 2016 10:31 am
Operator : robertl1
Sample : DFTPP
Misc : op94078,e2p2606
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 02 10:35:02 2016
Quant Method : C:\MSDCHEM\1\METHODS\DFTPP2P.M
Quant Title :
QLast Update : Tue Aug 11 08:57:54 2015
Response via : Initial Calibration



(1) Pentacholorphenol

2.128min (-2.128) 0.00ppb

response 0

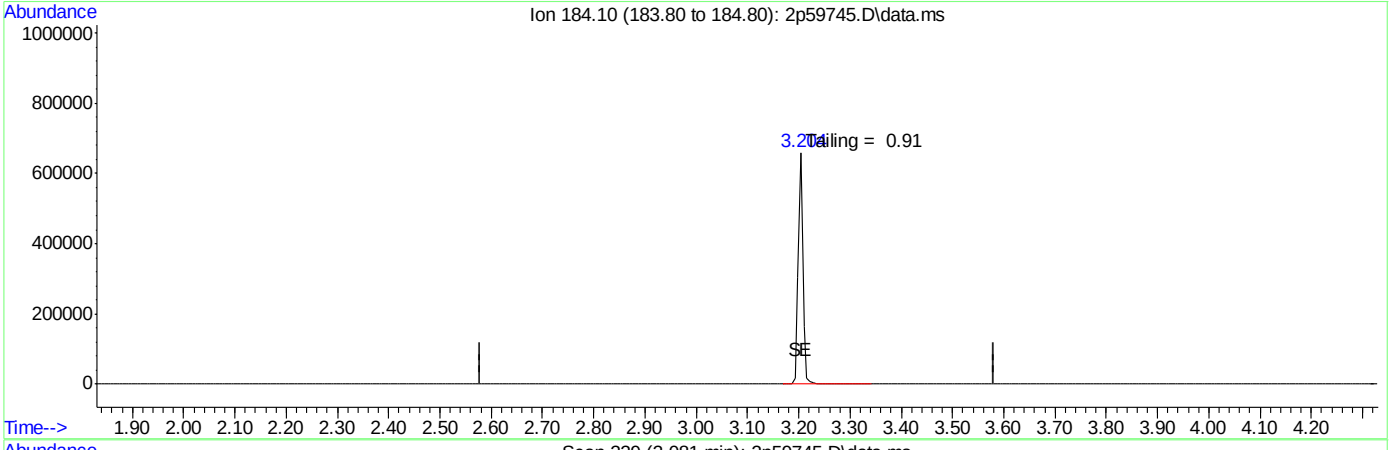
Ion	Exp%	Act%
265.80	100	0.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

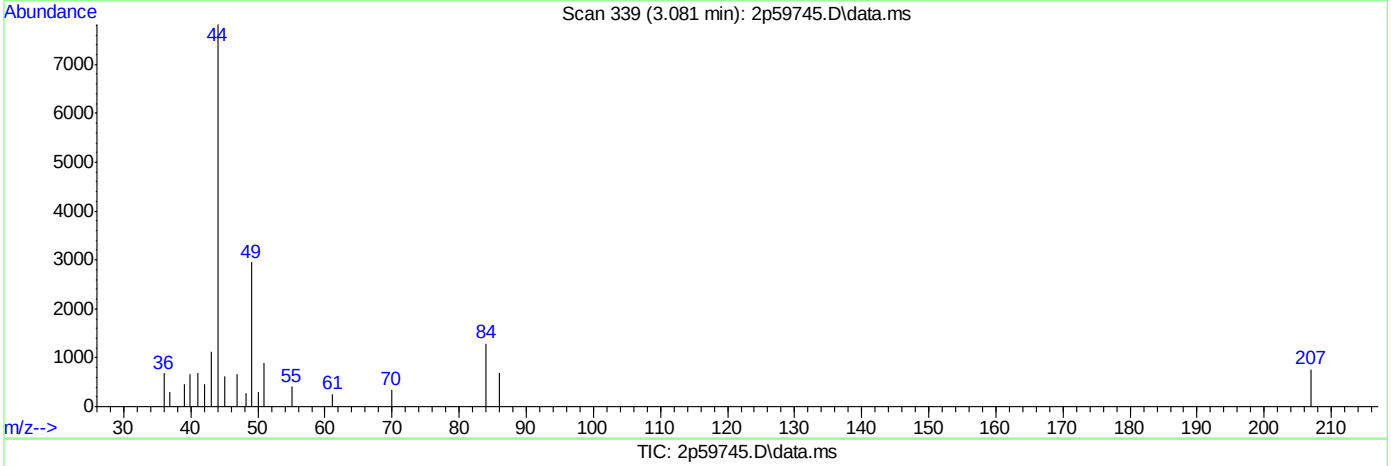
SGS ACCUTEST JC21347

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2P2606\
Data File : 2p59745.D
Acq On : 2 Jun 2016 10:31 am
Operator : robertl1
Sample : DFTPP
Misc : op94078,e2p2606
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 02 10:35:02 2016
Quant Method : C:\MSDCHEM\1\METHODS\DFTPP2P.M
Quant Title :
QLast Update : Tue Aug 11 08:57:54 2015
Response via : Initial Calibration





TIC: 2p59745.D\data.ms

(2) Benzidine

3.081min (-3.081) 0.00ppb

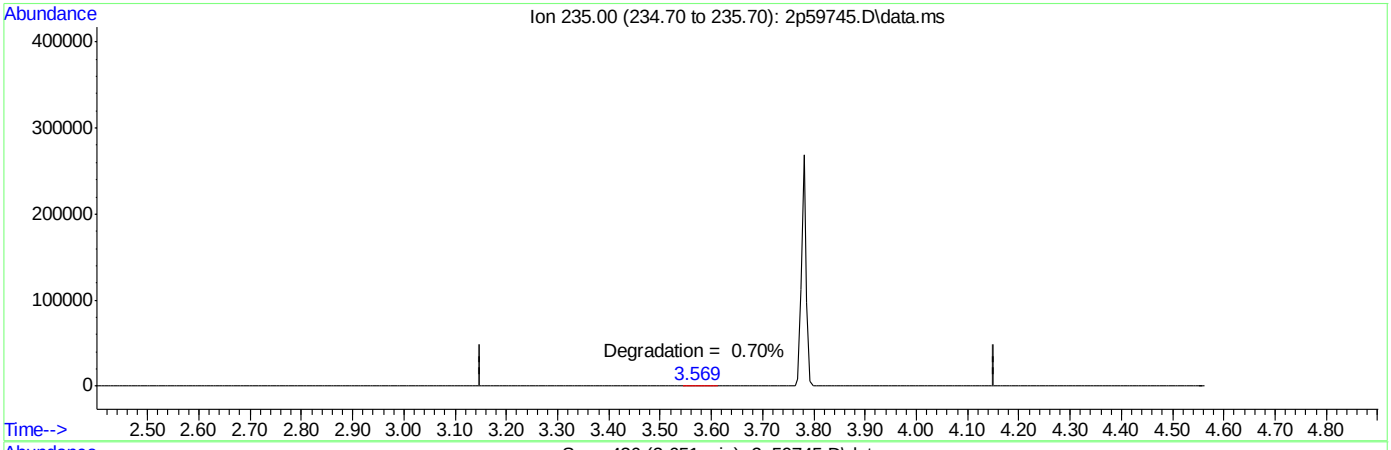
response 0

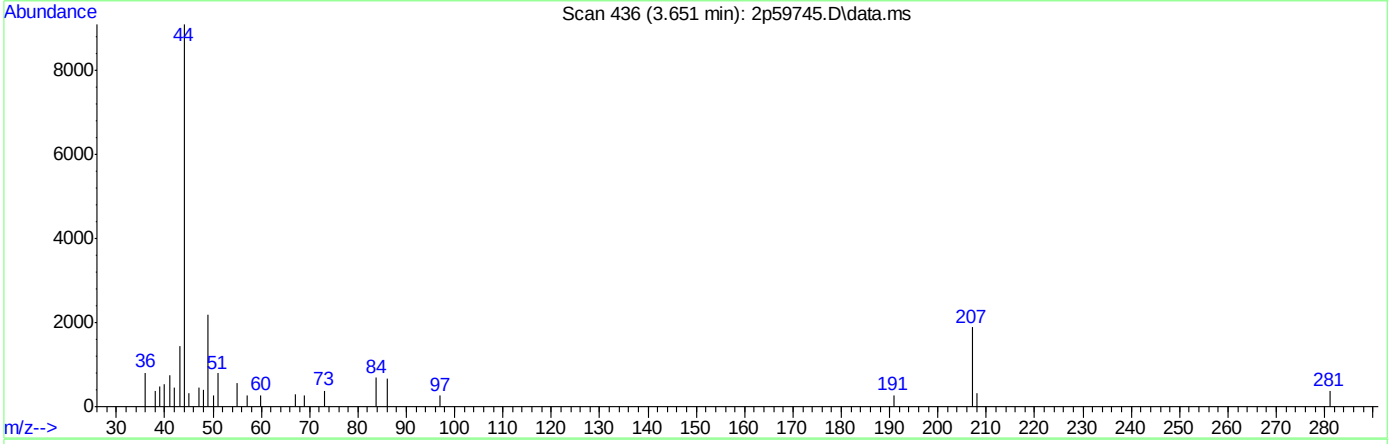
Ion	Exp%	Act%
184.10	100	0.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2P2606\
Data File : 2p59745.D
Acq On : 2 Jun 2016 10:31 am
Operator : robertl1
Sample : DFTPP
Misc : op94078,e2p2606
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 02 10:35:02 2016
Quant Method : C:\MSDCHEM\1\METHODS\DFTPP2P.M
Quant Title :
QLast Update : Tue Aug 11 08:57:54 2015
Response via : Initial Calibration





TIC: 2p59745.D\data.ms

(3) PP-DDT

3.651min (-3.651) 0.00ppb

response 0

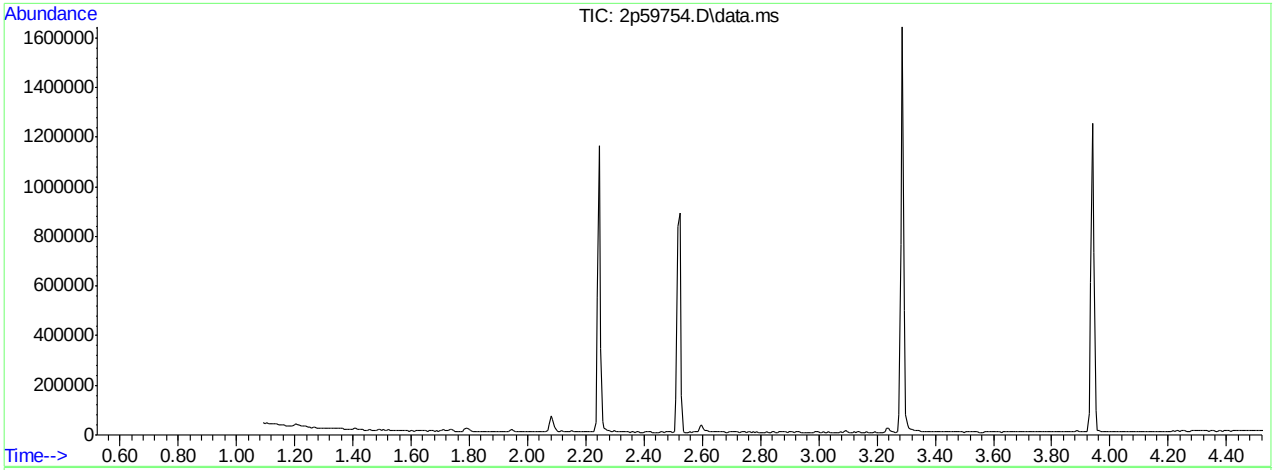
Ion	Exp%	Act%
235.00	100	0.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

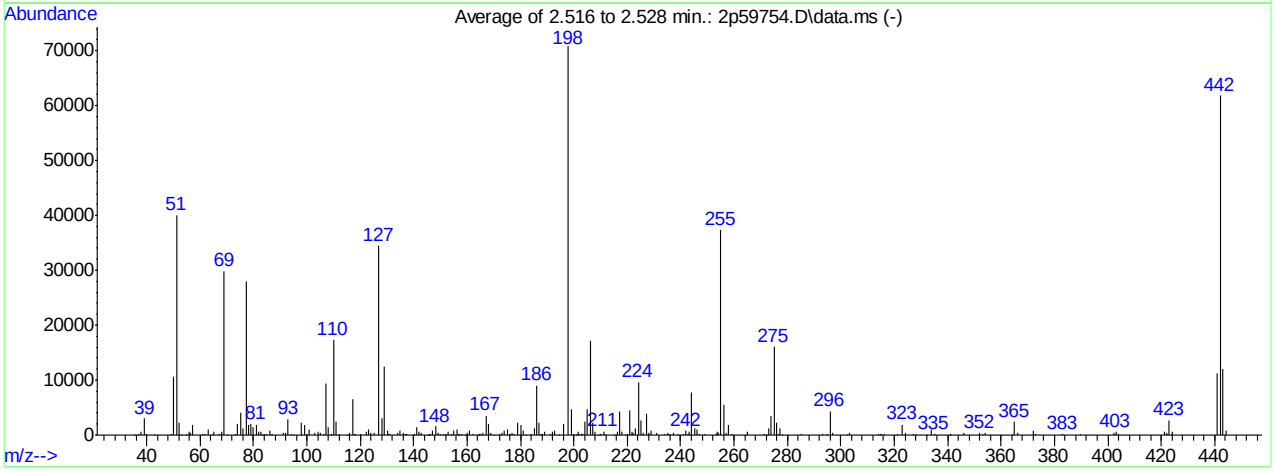
SGS ACCUTEST JC21347

DFTPP

Data File : C:\msdchem\1\DATA\2P2607\2p59754.D Vial: 1
Acq On : 2 Jun 2016 2:58 pm Operator: robertl1
Sample : DFTPP Inst : MS2P
Misc : op94078,e2p2607 Multiplr: 1.00
MS Integration Params: events.e

Method : C:\MSDCHEM\1\METHODS\DFTPP2P.M (ChemStation Integrator)
Title :





AutoFind: Scans 243, 244, 245; Background Corrected with Scan 238

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	56.7	40122	PASS
68	69	0.00	2	2.0	593	PASS
69	198	0.00	100	42.2	29838	PASS
70	69	0.00	2	0.3	102	PASS
127	198	40	60	48.7	34499	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	70773	PASS
199	198	5	9	6.8	4797	PASS
275	198	10	30	22.7	16083	PASS
365	198	1	100	3.3	2370	PASS
441	443	0.01	100	93.7	11331	PASS
442	198	40	100	87.4	61827	PASS
443	442	17	23	19.6	12088	PASS

2p59754.D DFTPP2P.M Thu Jun 02 15:03:29 2016 RPT1

Average of 2.516 to 2.528 min.: 2p59754.D\data.ms
DFTPP
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
35.10	88	55.05	304	69.00	29838	82.05	552
37.00	282	55.90	532	70.10	102	82.95	698
38.00	689	56.10	425	73.20	139	83.20	85
39.10	3033	57.00	1922	74.10	2084	83.80	167
40.00	283	60.90	235	75.00	4079	84.95	306
43.00	89	61.95	302	76.05	1269	86.00	889
49.00	176	63.05	1065	77.10	28063	86.90	134
50.10	10578	64.10	111	78.05	1893	90.95	460
51.05	40122	65.05	602	79.00	1970	92.05	482
52.05	2216	67.00	133	80.00	1407	93.00	2963
53.00	99	68.05	593	81.00	1845	93.95	259

Average of 2.516 to 2.528 min.: 2p59754.D\data.ms
DFTPP
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
95.00	100	107.95	1434	122.05	536	135.00	862
97.80	91	109.00	170	123.00	968	136.05	407
98.05	2258	110.00	17269	124.05	514	137.00	258
98.95	1818	111.05	2415	125.00	397	137.20	236
100.00	200	112.10	309	127.00	34499	140.20	121
100.95	1112	115.00	110	128.00	3013	141.00	1343
103.05	331	116.05	465	129.00	12525	142.05	595
104.00	576	117.00	6638	130.00	855	142.95	338
104.95	480	117.90	201	130.80	126	145.20	90
106.10	195	118.10	157	131.00	116	145.70	94
107.00	9421	120.00	129	133.95	352	146.05	191

Average of 2.516 to 2.528 min.: 2p59754.D\data.ms
DFTPP
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
147.00	869	157.00	227	168.05	1987	178.95	2159
148.05	1560	158.00	168	169.00	513	180.00	1793
149.10	447	159.00	84	170.10	101	181.05	847
150.05	212	160.00	446	172.05	299	182.00	88
151.00	263	161.05	750	172.90	351	184.10	126
151.85	219	162.00	136	174.05	755	185.10	1261
153.00	561	164.10	91	175.05	1048	186.10	9051
154.00	314	164.70	164	175.90	205	187.00	2340
155.00	886	165.00	263	176.10	132	187.80	128
156.10	969	166.05	492	177.00	467	188.10	118
156.80	89	167.00	3472	177.80	140	188.95	602

Average of 2.516 to 2.528 min.: 2p59754.D\data.ms
DFTPP
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
190.95	237	202.70	137	211.05	706	223.10	1198
192.00	699	203.00	266	211.50	259	224.10	9601
192.95	788	203.20	211	215.10	88	225.05	2567
194.30	102	204.10	2393	216.15	619	226.05	397
196.05	2073	205.05	4694	217.00	4339	227.00	3878
198.00	70773	206.10	17063	218.00	629	228.00	450
199.00	4797	207.05	2217	219.10	93	229.00	888
200.10	311	208.05	571	220.10	202	230.95	320
200.80	95	209.10	108	221.05	4571	234.10	130
201.45	583	209.80	133	221.80	557	235.05	341
202.10	143	210.15	292	222.10	407	235.85	206

Average of 2.516 to 2.528 min.: 2p59754.D\data.ms
DFTPP
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
237.10	342	253.10	157	271.20	129	295.00	115
239.10	153	253.65	616	272.00	88	296.00	4355
241.15	221	254.10	361	273.00	1302	297.00	505
242.10	730	255.10	37311	274.00	3393	302.20	83

242.90	275	256.05	5433	275.00	16083	303.05	476
243.10	644	257.00	498	276.05	2189	314.10	129
244.10	7846	257.70	135	276.80	125	314.90	122
245.05	1281	258.05	1898	277.05	1190	315.10	314
246.00	1121	258.95	226	278.00	93	316.15	250
247.00	254	264.10	105	285.00	116	321.15	191
248.90	282	265.00	660	293.05	295	323.05	1891

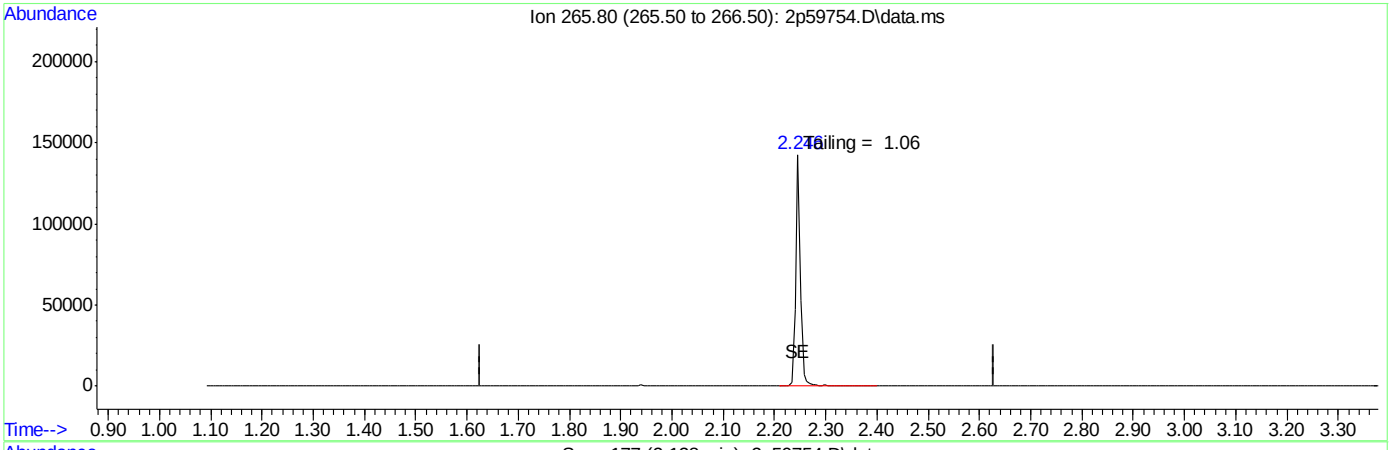
Average of 2.516 to 2.528 min.: 2p59754.D\data.ms
DFTPP
Modified:subtracted

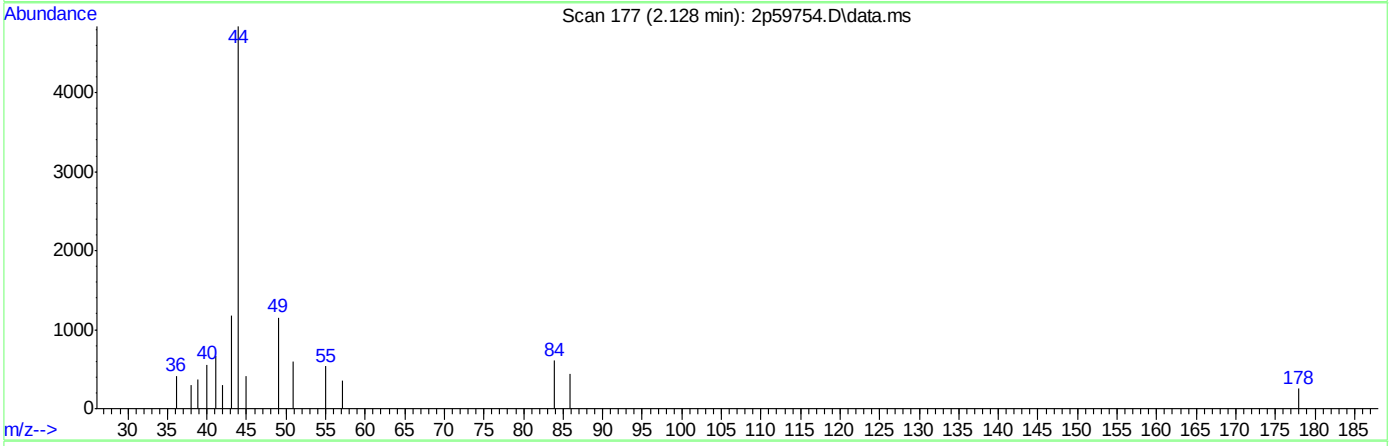
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
323.70	94	353.10	233	403.90	117		
324.10	320	354.05	405	421.15	551		
327.00	187	364.00	87	421.90	197		
328.10	86	365.00	2370	422.20	354		
332.10	89	366.05	316	423.05	2736		
334.05	1039	372.05	726	423.80	105		
335.00	144	373.10	176	424.15	722		
341.00	104	383.10	144	441.10	11331		
341.20	122	389.90	131	442.10	61827		
345.90	363	402.20	511	443.05	12088		
352.00	364	403.05	601	444.10	880		

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2P2607\
Data File : 2p59754.D
Acq On : 2 Jun 2016 2:58 pm
Operator : robertl1
Sample : DFTPP
Misc : op94078,e2p2607
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 02 15:02:30 2016
Quant Method : C:\MSDCHEM\1\METHODS\DFTPP2P.M
Quant Title :
QLast Update : Tue Aug 11 08:57:54 2015
Response via : Initial Calibration





TIC: 2p59754.D\data.ms

(1) Pentacholorphenol

2.128min (-2.128) 0.00ppb

response 0

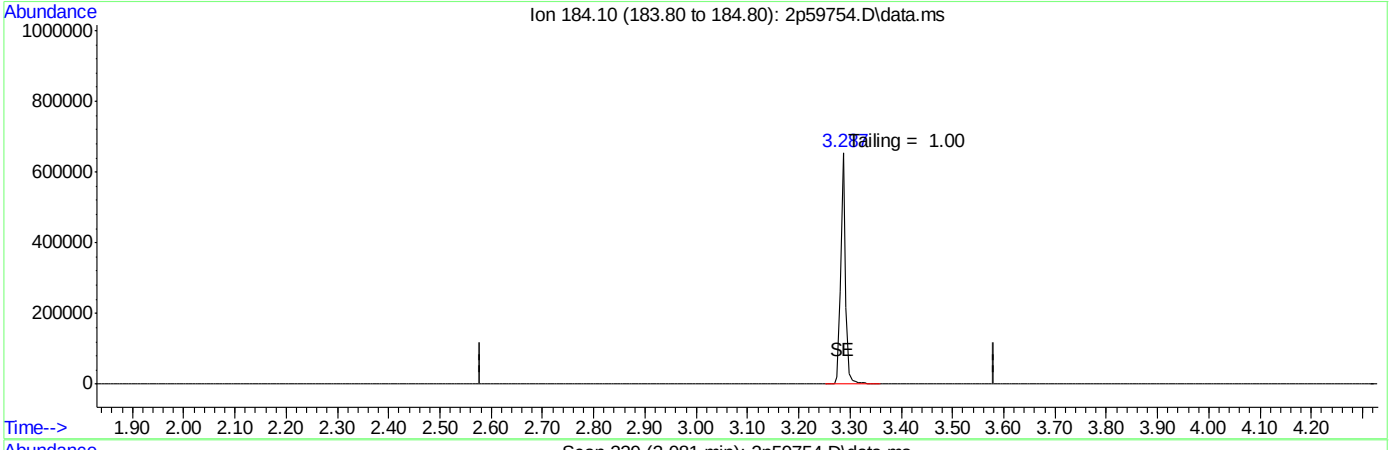
Ion	Exp%	Act%
265.80	100	0.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

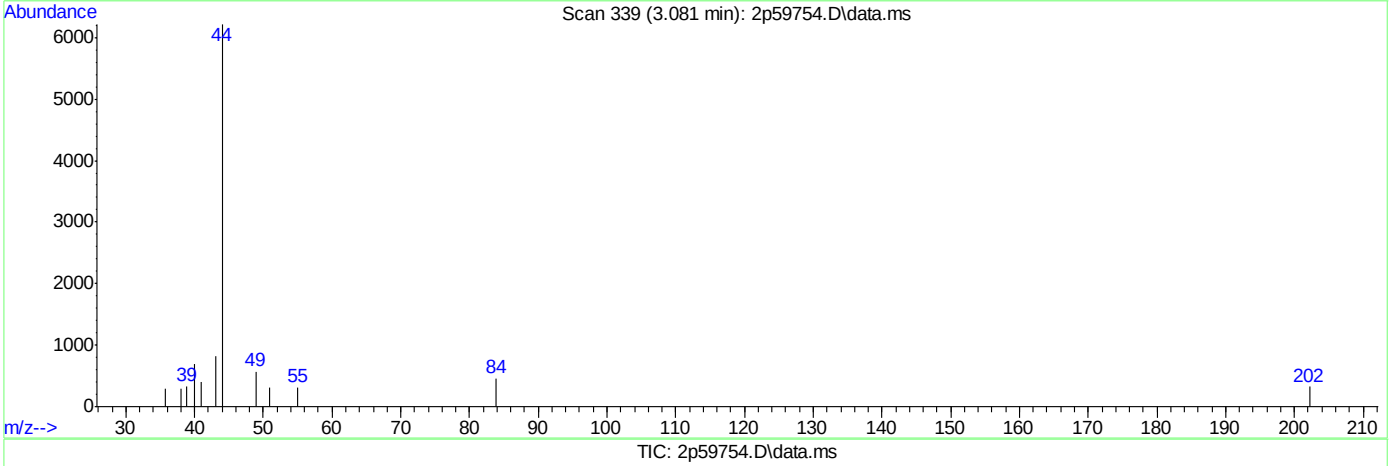
SGS ACCUTEST JC21347

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2P2607\
Data File : 2p59754.D
Acq On : 2 Jun 2016 2:58 pm
Operator : robertl1
Sample : DFTPP
Misc : op94078,e2p2607
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 02 15:02:30 2016
Quant Method : C:\MSDCHEM\1\METHODS\DFTPP2P.M
Quant Title :
QLast Update : Tue Aug 11 08:57:54 2015
Response via : Initial Calibration





TIC: 2p59754.D\data.ms

(2) Benzidine

3.081min (-3.081) 0.00ppb

response 0

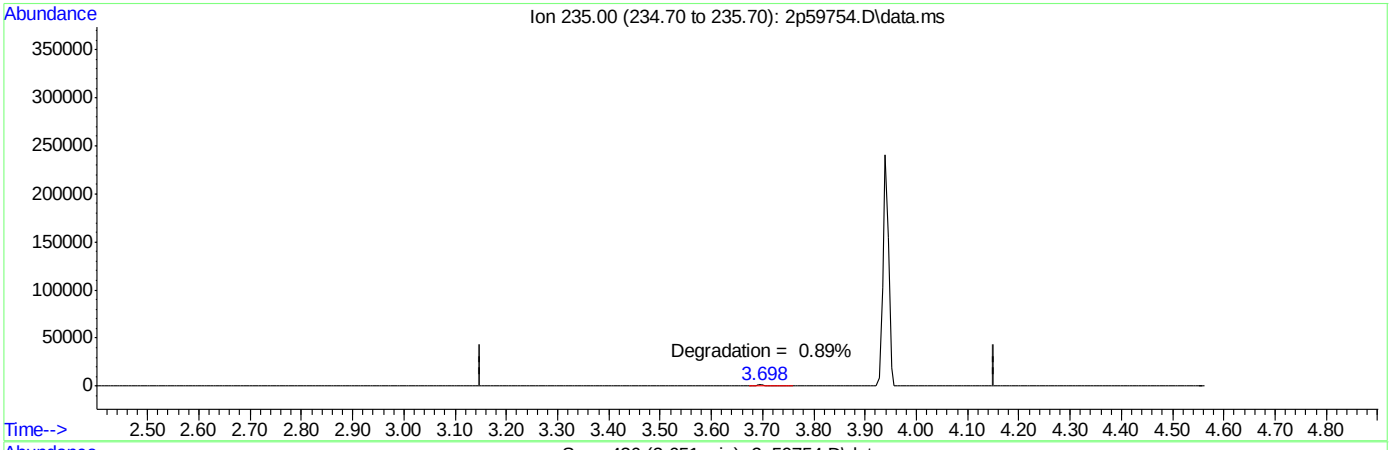
Ion	Exp%	Act%
184.10	100	0.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

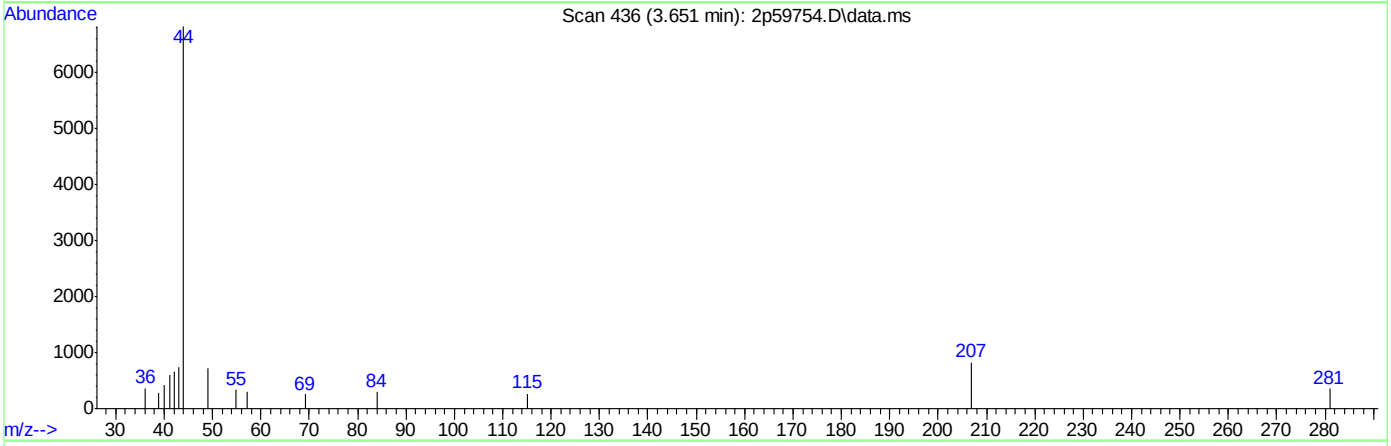
SGS ACCUTEST JC21347

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2P2607\
Data File : 2p59754.D
Acq On : 2 Jun 2016 2:58 pm
Operator : robertl1
Sample : DFTPP
Misc : op94078,e2p2607
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 02 15:02:30 2016
Quant Method : C:\MSDCHEM\1\METHODS\DFTPP2P.M
Quant Title :
QLast Update : Tue Aug 11 08:57:54 2015
Response via : Initial Calibration





TIC: 2p59754.D\data.ms

(3) PP-DDT

3.651min (-3.651) 0.00ppb

response 0

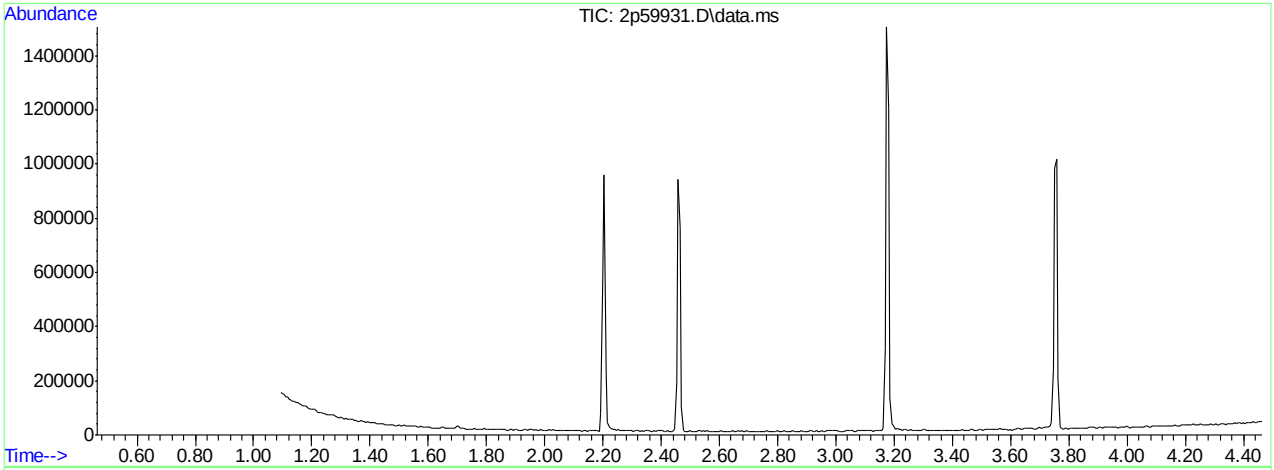
Ion	Exp%	Act%
235.00	100	0.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

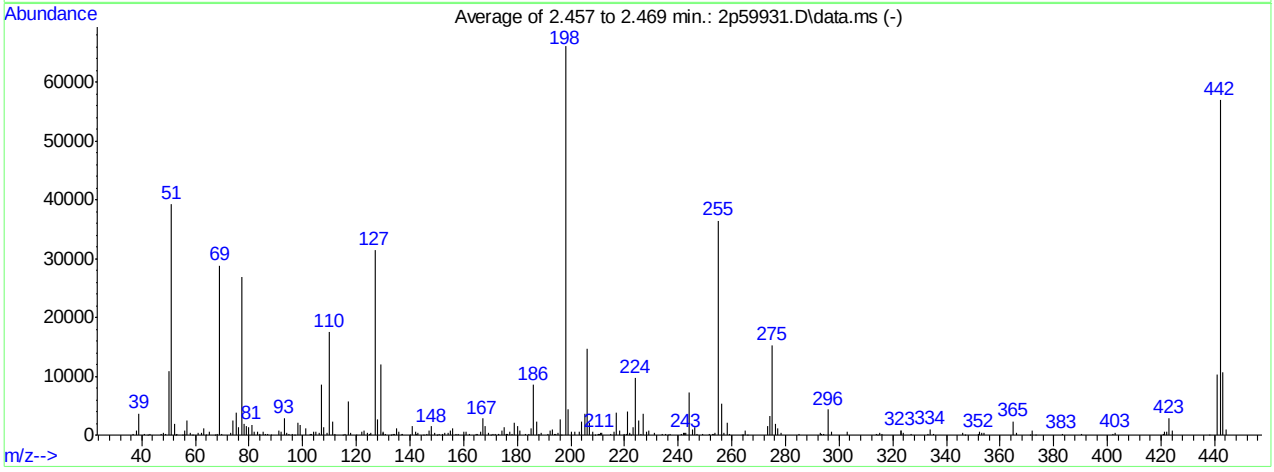
SGS ACCUTEST JC21347

DFTPP

Data File : C:\msdchem\1\DATA\2P2614\2p59931.D Vial: 1
Acq On : 8 Jun 2016 9:54 am Operator: robertl1
Sample : DFTPP Inst : MS2P
Misc : op94078,e2p2614 Multiplr: 1.00
MS Integration Params: events.e

Method : C:\MSDCHEM\1\METHODS\DFTPP2P.M (ChemStation Integrator)
Title :





AutoFind: Scans 233, 234, 235; Background Corrected with Scan 228

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	59.4	39282	PASS
68	69	0.00	2	0.9	272	PASS
69	198	0.00	100	43.6	28801	PASS
70	69	0.00	2	0.8	244	PASS
127	198	40	60	47.8	31563	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	66100	PASS
199	198	5	9	6.8	4463	PASS
275	198	10	30	23.2	15322	PASS
365	198	1	100	3.6	2372	PASS
441	443	0.01	100	96.0	10239	PASS
442	198	40	100	86.2	57003	PASS
443	442	17	23	18.7	10663	PASS

2p59931.D DFTPP2P.M Thu Jun 09 13:44:29 2016 RPT1

Average of 2.457 to 2.469 min.: 2p59931.D\data.ms
DFTPP
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.95	268	52.05	1893	63.05	1078	77.10	26941
38.00	682	52.80	97	64.00	88	78.05	1930
39.05	3625	53.00	104	65.10	591	79.00	1447
41.00	264	55.00	34	67.10	96	80.00	1286
42.00	99	55.90	685	67.90	272	81.00	1790
43.10	125	56.10	148	69.00	28801	81.95	578
47.00	221	57.00	2581	69.90	244	82.95	524
47.85	331	58.05	307	73.05	348	83.95	217
49.00	199	59.00	83	74.00	2395	85.05	525
50.00	10948	60.95	426	75.00	3750	85.95	273
51.05	39282	62.05	461	76.10	1422	86.90	155

Average of 2.457 to 2.469 min.: 2p59931.D\data.ms
DFTPP
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
88.10	96	102.90	235	115.10	88	128.05	2600
91.00	677	103.10	189	115.90	229	129.00	11975
92.05	504	103.90	577	117.00	5814	129.90	560
93.00	2926	104.95	551	117.90	382	130.10	379
93.90	300	106.10	353	119.80	99	130.95	209
95.05	239	107.00	8661	121.95	605	133.00	89
95.90	131	108.00	1415	123.00	855	133.80	191
97.10	101	108.90	461	123.95	420	134.10	121
98.05	2012	110.00	17521	124.80	169	135.05	1092
99.00	1801	111.00	2377	125.20	293	135.95	574
100.95	1169	111.95	271	127.00	31563	137.00	249

Average of 2.457 to 2.469 min.: 2p59931.D\data.ms
DFTPP
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
137.20	228	150.10	88	162.00	108	173.10	176
140.00	92	150.90	165	164.80	139	174.05	706
140.95	1464	152.00	188	165.10	225	175.00	1275
141.95	665	153.10	344	166.15	540	175.80	141
142.60	188	154.00	459	167.05	2858	176.10	219
142.95	315	155.00	798	168.00	1610	176.30	148
144.90	102	156.00	1070	169.05	437	177.00	608
146.20	126	157.10	221	170.20	98	178.20	164
147.10	718	157.90	208	170.95	184	179.00	2143
148.05	1498	160.00	558	171.90	274	180.05	1595
149.00	380	161.00	554	172.80	133	181.00	819

Average of 2.457 to 2.469 min.: 2p59931.D\data.ms
DFTPP
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
183.00	146	194.20	118	206.10	14776	217.00	3814
184.15	288	194.95	335	206.95	2117	218.00	676
185.05	1228	196.00	2593	208.05	503	219.90	148
186.10	8540	196.40	88	208.90	102	220.70	106
187.05	2268	198.00	66100	210.10	215	221.05	3987
187.95	250	199.00	4463	210.30	158	221.80	355
188.90	395	200.10	497	210.80	269	222.00	275
191.30	187	201.55	617	211.00	413	222.50	93
192.05	676	203.00	517	211.65	293	223.05	1343
193.05	925	204.10	2315	214.80	225	224.10	9667
194.00	188	205.10	3661	215.90	508	225.10	2531

Average of 2.457 to 2.469 min.: 2p59931.D\data.ms
DFTPP
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
226.20	118	242.20	332	255.10	36510	275.10	15322
227.00	3562	242.90	396	256.00	5360	276.10	1985
228.10	522	244.10	7282	257.05	340	277.00	1084
229.00	736	245.15	1026	258.10	2058	278.10	302

231.05	363	246.05	1330	259.15	206	285.10	155
233.90	146	247.00	273	263.70	92	292.95	339
235.10	125	249.10	205	264.00	89	293.20	171
236.20	89	251.70	204	264.95	801	294.30	115
237.05	290	252.80	167	265.70	100	296.05	4323
241.00	129	253.20	174	273.10	1514	297.05	530
242.00	312	253.80	342	274.05	3238	303.05	662

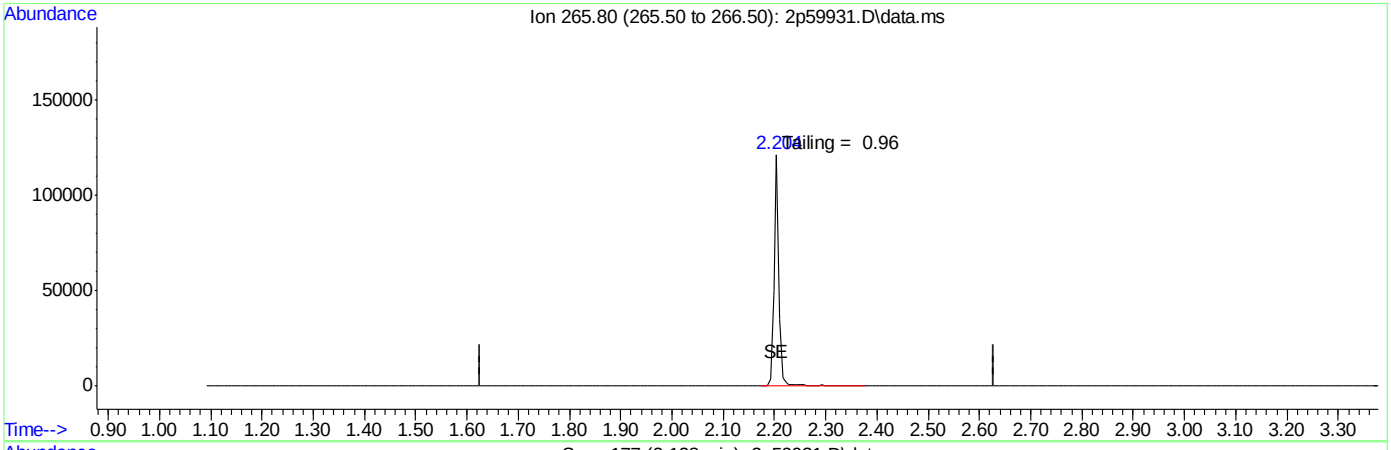
Average of 2.457 to 2.469 min.: 2p59931.D\data.ms
DFTPP
Modified:subtracted

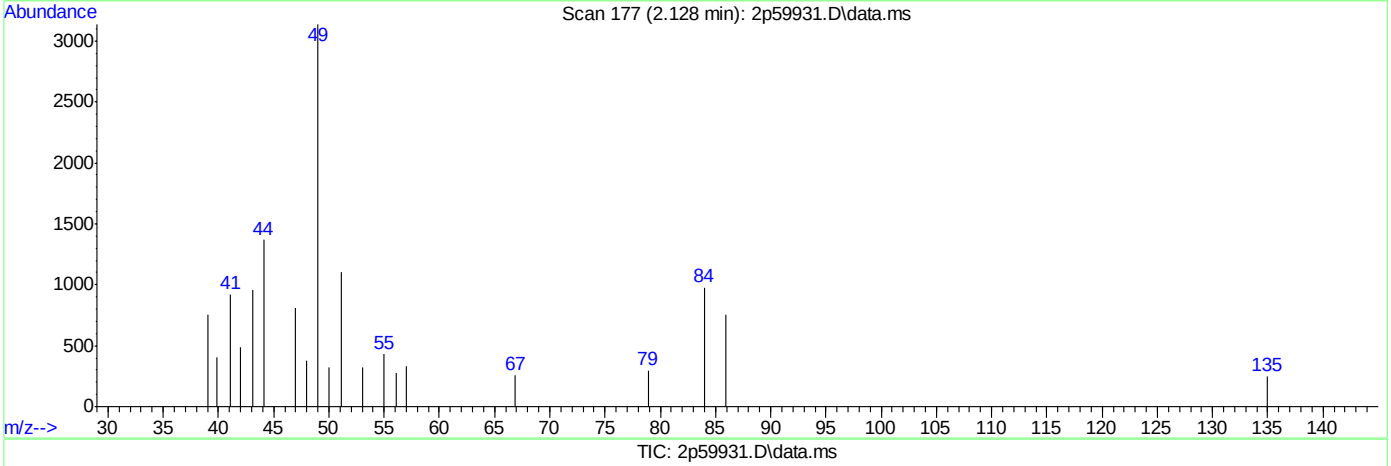
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
313.95	176	345.95	342	383.00	260	442.10	57003
314.40	84	346.70	94	390.10	106	443.10	10663
315.00	470	351.70	109	402.10	157	444.05	921
316.05	236	352.10	487	403.00	387		
323.00	837	353.00	303	420.80	171		
323.20	749	354.05	380	421.10	532		
324.00	309	365.00	2372	422.05	535		
326.90	256	365.95	367	423.00	2892		
333.00	155	371.10	84	424.10	682		
334.00	1018	372.00	761	437.80	89		
335.05	254	373.00	83	441.05	10239		

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2P2614\
Data File : 2p59931.D
Acq On : 8 Jun 2016 9:54 am
Operator : robertl1
Sample : DFTPP
Misc : op94078,e2p2614
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 08 09:58:18 2016
Quant Method : C:\MSDCHEM\1\METHODS\DFTPP2P.M
Quant Title :
QLast Update : Tue Aug 11 08:57:54 2015
Response via : Initial Calibration





TIC: 2p59931.D\data.ms

(1) Pentacholorphenol

2.128min (-2.128) 0.00ppb

response 0

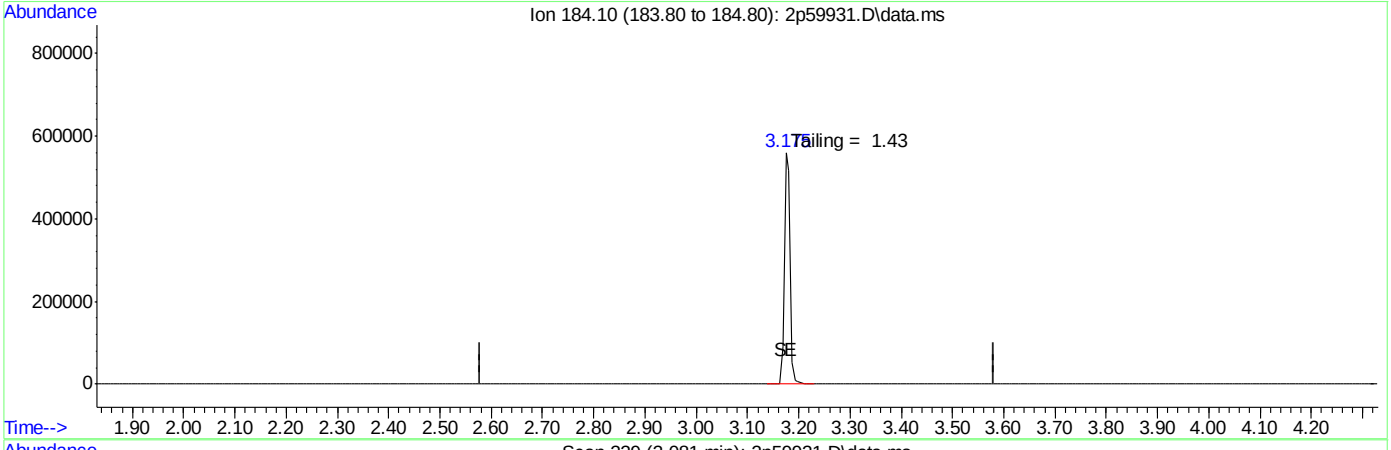
Ion	Exp%	Act%
265.80	100	0.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

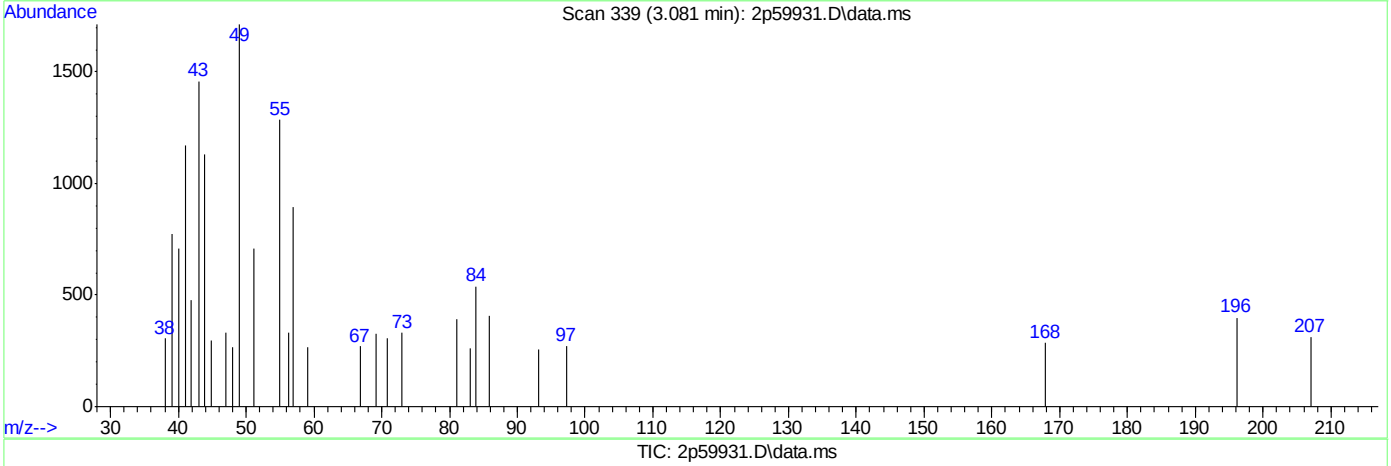
SGS ACCUTEST JC21347

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2P2614\
Data File : 2p59931.D
Acq On : 8 Jun 2016 9:54 am
Operator : robertl1
Sample : DFTPP
Misc : op94078,e2p2614
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 08 09:58:18 2016
Quant Method : C:\MSDCHEM\1\METHODS\DFTPP2P.M
Quant Title :
QLast Update : Tue Aug 11 08:57:54 2015
Response via : Initial Calibration





TIC: 2p59931.D\data.ms

(2) Benzidine

3.081min (-3.081) 0.00ppb

response 0

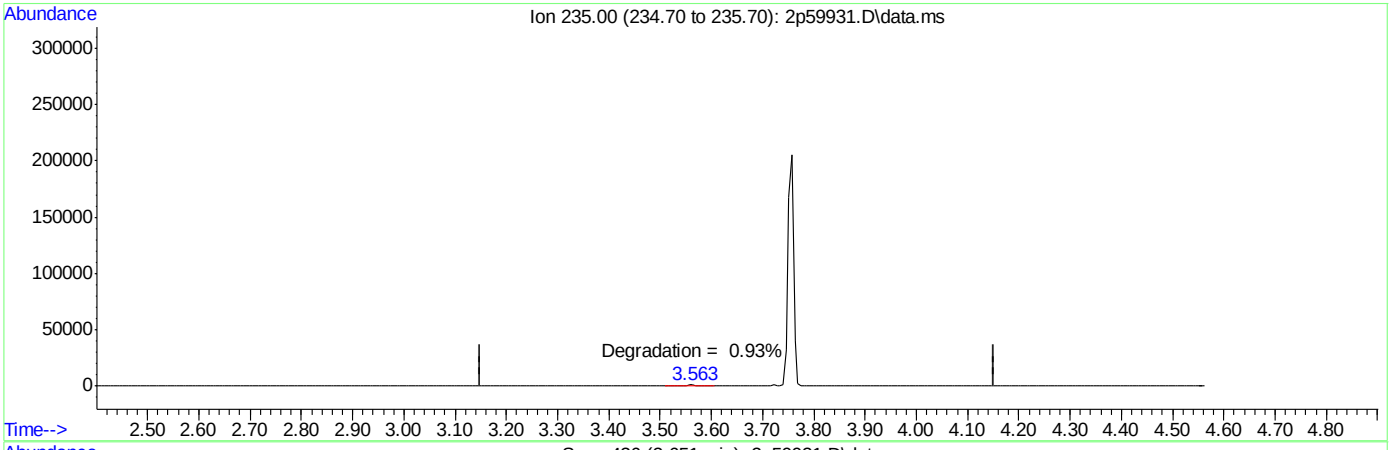
Ion	Exp%	Act%
184.10	100	0.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

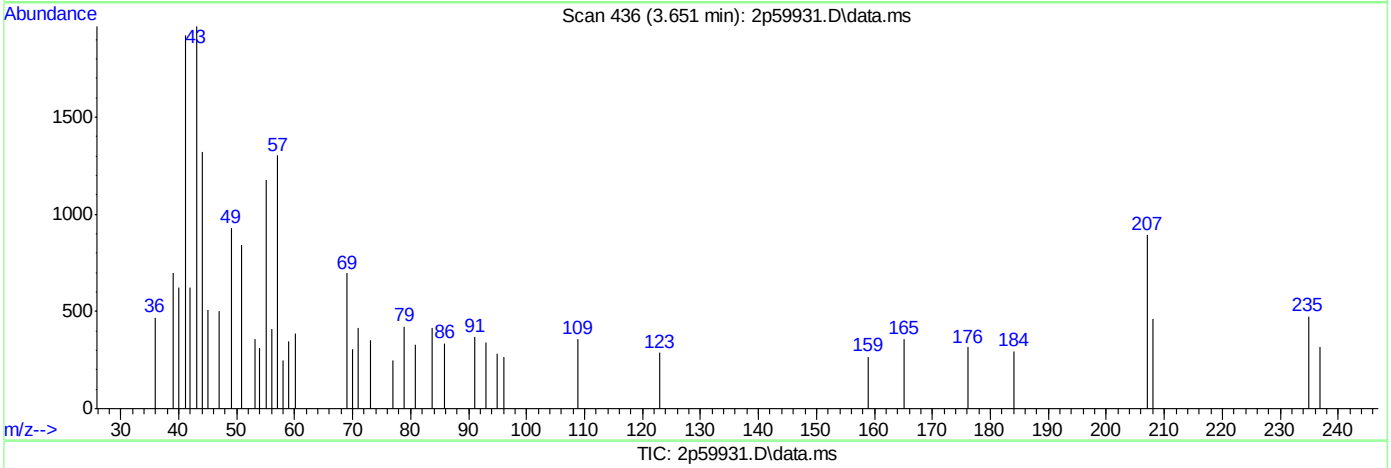
SGS ACCUTEST JC21347

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2P2614\
Data File : 2p59931.D
Acq On : 8 Jun 2016 9:54 am
Operator : robertl1
Sample : DFTPP
Misc : op94078,e2p2614
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 08 09:58:18 2016
Quant Method : C:\MSDCHEM\1\METHODS\DFTPP2P.M
Quant Title :
QLast Update : Tue Aug 11 08:57:54 2015
Response via : Initial Calibration





TIC: 2p59931.D\data.ms

(3) PP-DDT

3.651min (-3.651) 0.00ppb

response 0

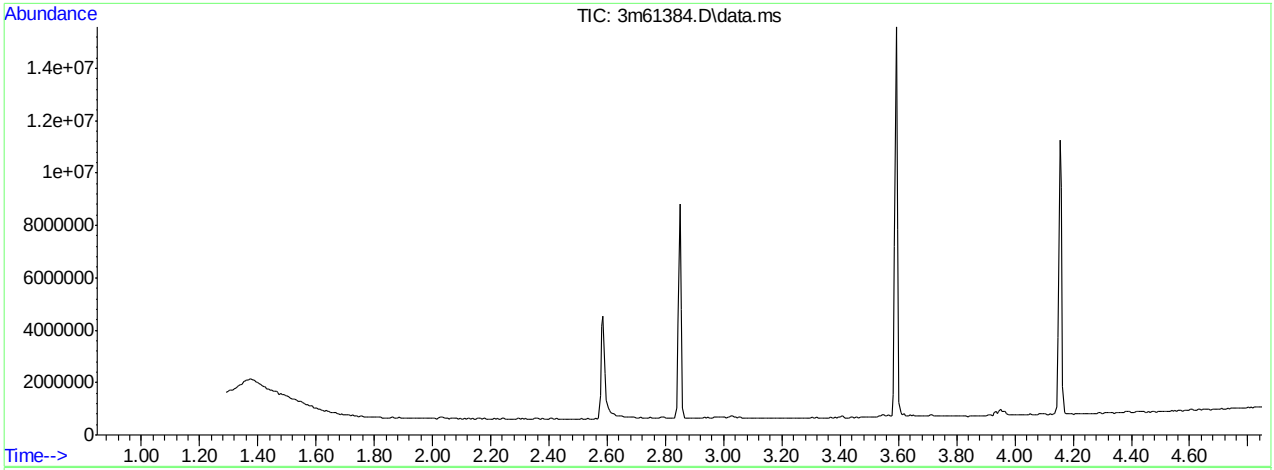
Ion	Exp%	Act%
235.00	100	0.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

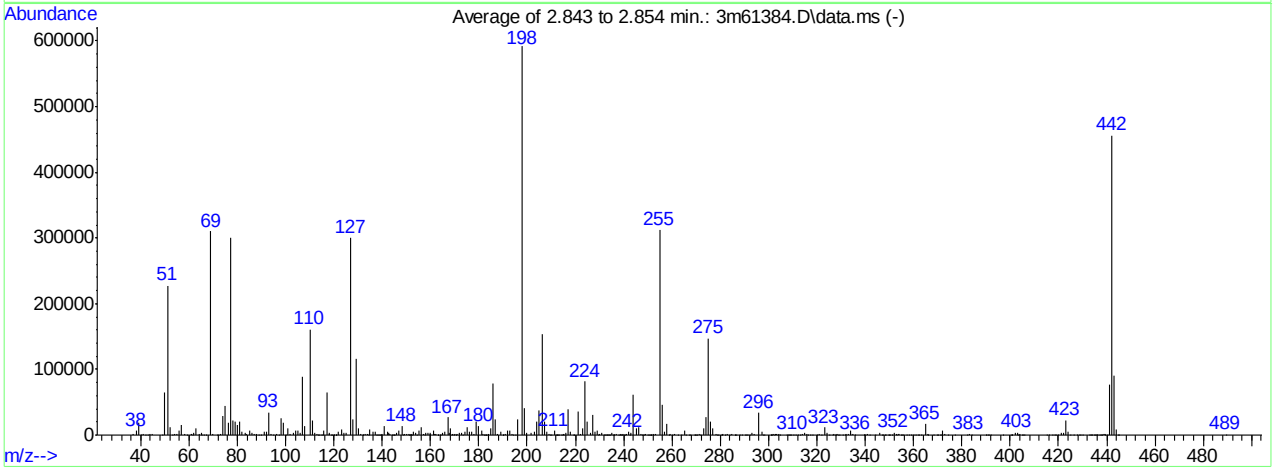
SGS ACCUTEST JC21347

DFTPP

Data File : C:\msdchem\1\DATA\E3M2887\3m61384.D Vial: 1
Acq On : 17 May 2016 8:56 am Operator: linseyk
Sample : dftpp Inst : MS3M
Misc : op99506a,e3m2887 Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\MSDCHEM\1\METHODS\DFTPP3M.M (RTE Integrator)
Title : DFTPP, RXI-5MS 30m x .25mm x .25um





AutoFind: Scans 291, 292, 293; Background Corrected with Scan 287

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	38.4	227219	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	52.4	310061	PASS
70	69	0.00	2	0.5	1471	PASS
127	198	40	60	50.8	300411	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	591701	PASS
199	198	5	9	6.9	40848	PASS
275	198	10	30	24.9	147552	PASS
365	198	1	100	2.8	16496	PASS
441	443	0.10	100	84.8	77365	PASS
442	198	40	100	77.0	455819	PASS
443	442	17	23	20.0	91195	PASS

3m61384.D DFTPP3M.M Wed May 18 09:43:06 2016 RPT1

Average of 2.843 to 2.854 min.: 3m61384.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
37.05	2615	51.00	227219	61.40	554	72.00	196
38.05	6223	52.05	11210	61.95	3838	73.00	2099
39.10	19192	52.95	443	63.05	9825	74.00	28547
40.00	631	54.05	1029	64.00	1768	75.00	44924
41.05	2257	55.05	1282	65.00	3226	76.15	18705
42.00	538	56.00	7481	65.20	854	77.00	300798
43.00	311	57.00	15541	66.15	773	78.00	21517
43.80	1146	58.00	1260	67.10	773	78.95	21256
44.90	1295	59.30	389	69.00	310061	80.00	15078
49.00	107	60.90	1960	70.00	1471	81.00	19872
50.00	64272	61.10	1981	71.60	402	81.90	5263

Average of 2.843 to 2.854 min.: 3m61384.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
83.10	4212	93.95	2087	104.95	7503	115.15	308
83.95	1928	94.80	514	106.00	3189	115.95	6170
85.05	6324	96.05	2007	107.00	89066	117.00	64083
85.95	4005	97.00	783	107.90	14158	117.90	2814
86.95	1240	97.95	25259	110.00	161368	118.10	2491
87.90	2247	99.00	19528	111.00	22314	118.95	751
88.95	119	100.05	828	112.05	3469	119.20	234
89.90	536	101.05	10186	112.95	1088	119.80	376
91.05	4416	101.85	1014	113.60	148	120.00	334
92.10	5085	103.05	4052	114.10	141	120.70	334
93.00	34869	103.95	7205	114.90	461	121.05	122

Average of 2.843 to 2.854 min.: 3m61384.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
121.95	5432	133.05	1297	139.95	998	148.05	14148
122.95	8842	134.00	1832	140.95	13243	148.80	462
123.95	4131	134.20	592	142.00	5297	149.05	2486
125.05	4265	135.00	8564	142.90	2726	150.05	1185
127.00	300411	136.00	4696	143.05	1142	150.90	55
127.95	23615	137.00	4366	144.05	569	151.25	1783
129.00	116983	137.70	899	144.50	301	151.70	350
129.95	10774	138.10	567	144.90	343	151.80	413
130.90	1863	138.60	511	145.10	467	151.95	1099
131.95	318	138.95	748	146.05	3481	152.30	881
132.20	652	139.60	318	146.95	7336	152.95	5418

Average of 2.843 to 2.854 min.: 3m61384.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
153.90	2784	161.75	1422	168.05	9787	175.00	11230
154.10	916	162.15	2071	168.80	439	176.00	4876
155.05	6785	162.90	325	169.05	1803	177.00	6014
156.05	11649	163.20	591	169.60	280	177.80	1610
156.90	2345	164.00	837	169.90	1047	179.00	19838
157.30	780	164.20	777	170.30	458	180.00	13702
157.95	3408	164.80	1795	171.05	1957	181.05	6284
159.00	2646	165.00	3386	172.05	3023	181.90	1013
159.80	1089	166.00	4502	173.05	3161	182.20	498
160.05	3780	167.05	26922	173.30	733	182.60	508
161.05	7479	167.85	2626	174.05	5377	182.90	898

Average of 2.843 to 2.854 min.: 3m61384.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
183.10	237	192.95	7610	205.05	37623	212.90	840
184.00	1523	193.85	1384	206.05	153891	213.15	74
185.00	10118	194.05	50	207.00	20073	213.95	411
186.00	79198	195.20	426	208.05	4388	214.70	301

187.00	24031	196.05	23739	208.95	2026	215.00	1230
187.90	2581	198.00	591701	209.50	297	215.20	397
189.00	4882	199.00	40848	210.20	473	215.90	2650
189.90	308	199.95	4090	211.15	6321	217.00	38520
190.05	561	201.55	3188	211.80	649	218.05	5158
191.00	2171	203.00	4472	212.10	598	219.10	495
191.90	6721	204.00	21253	212.40	149	219.50	147

Average of 2.843 to 2.854 min.: 3m61384.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
221.05	36245	230.95	2756	235.90	580	241.00	2388
222.10	1599	231.80	174	236.15	841	242.00	4898
223.00	9575	232.20	189	237.00	2486	242.70	687
224.00	81398	232.95	442	237.70	112	243.15	3125
225.05	20442	233.10	211	238.10	471	244.10	60875
226.05	2828	233.30	526	238.60	211	245.10	10114
227.00	31477	233.60	144	238.90	1197	246.05	11883
228.00	4612	233.90	826	239.20	344	247.05	2113
228.95	6422	234.15	894	239.85	999	247.80	121
229.70	463	235.00	3031	240.10	346	248.05	78
230.00	1329	235.70	189	240.50	398	248.30	355

Average of 2.843 to 2.854 min.: 3m61384.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
248.95	1832	257.00	4624	267.60	297	277.05	11132
249.85	289	257.95	17795	269.20	156	278.05	1639
250.25	388	258.80	496	269.60	230	278.90	149
250.95	478	259.05	2317	269.90	396	279.15	536
251.10	387	259.95	754	270.30	144	280.40	102
251.30	353	260.95	951	271.05	1187	280.60	196
252.00	289	262.25	294	271.80	158	280.90	1087
252.25	1136	263.90	233	273.05	10146	281.95	516
252.95	2596	265.00	6308	274.05	28204	283.05	1177
255.00	312256	265.85	753	275.05	147552	283.90	542
256.00	46237	267.05	666	276.05	19812	284.95	2281

Average of 2.843 to 2.854 min.: 3m61384.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
285.90	102	296.00	33822	303.80	196	312.95	321
286.20	180	297.05	4702	304.05	1226	314.15	2063
286.80	124	297.90	550	304.90	383	315.05	3393
288.00	221	298.20	125	307.50	96	315.95	1559
288.75	406	300.90	214	308.00	106	316.20	522
290.15	780	301.15	428	308.25	382	317.10	439
290.85	499	301.60	268	308.70	168	318.15	235
291.20	120	302.05	950	309.20	116	319.90	354
292.10	291	302.30	81	310.10	810	321.00	1333
293.05	2770	303.00	2570	311.30	113	321.75	680
294.15	943	303.20	1209	311.90	109	323.10	11317

Average of 2.843 to 2.854 min.: 3m61384.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
324.15	2738	332.05	1400	344.20	98	352.90	145
324.95	281	332.95	1735	346.05	2624	353.05	2557
326.35	385	333.90	1008	346.90	82	353.85	1705
327.05	2181	334.05	6750	347.20	359	354.10	1700
327.60	358	335.05	2609	348.20	187	354.90	567
327.90	177	335.85	220	348.40	296	355.20	673
328.15	1084	339.35	193	349.50	132	355.70	149
328.90	96	339.60	167	349.80	158	357.00	97
329.30	249	340.00	230	350.10	112	358.00	291
330.80	75	341.00	1755	351.10	416	359.15	280
331.60	186	341.90	513	352.00	3817	359.80	76

Average of 2.843 to 2.854 min.: 3m61384.D\data.ms

dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
360.90	99	371.30	280	391.20	223	404.80	76
361.70	104	372.05	6319	392.05	436	405.20	81
362.10	76	373.00	1598	397.05	286	406.10	197
363.35	373	374.10	76	400.50	345	414.95	240
365.00	16496	377.00	867	400.80	230	416.10	261
365.90	312	382.20	157	401.00	237	417.60	98
366.05	2056	383.00	1450	402.05	2797	418.50	115
368.50	183	383.95	427	402.90	168	419.10	119
369.60	198	389.90	482	403.10	3676	419.80	177
370.20	528	390.25	601	403.50	286	421.05	4154
371.00	457	390.80	324	404.05	1200	422.05	3704

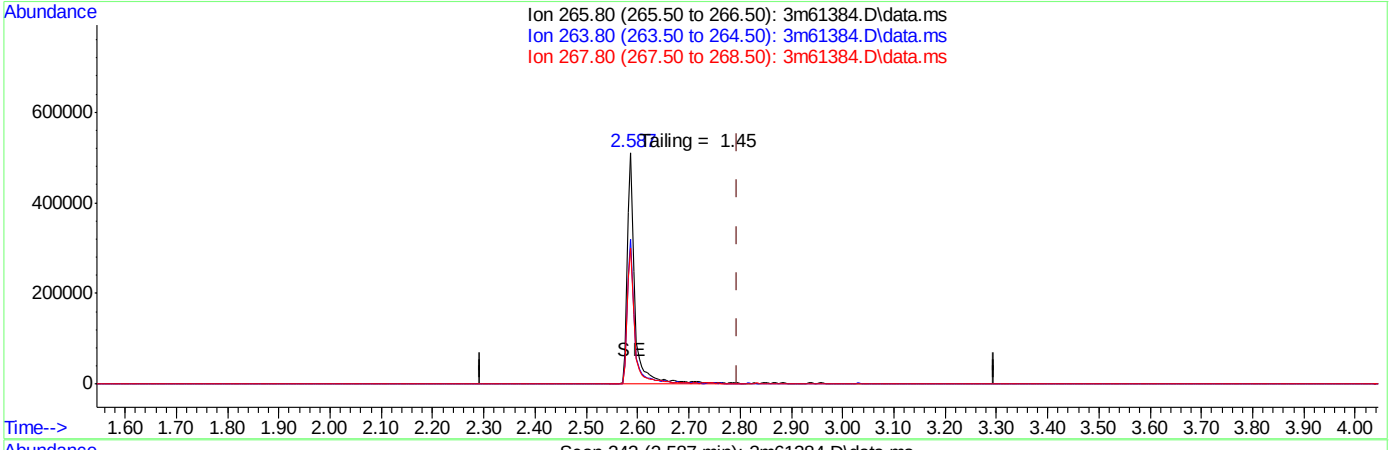
Average of 2.843 to 2.854 min.: 3m61384.D\data.ms
dftpp
Modified:subtracted

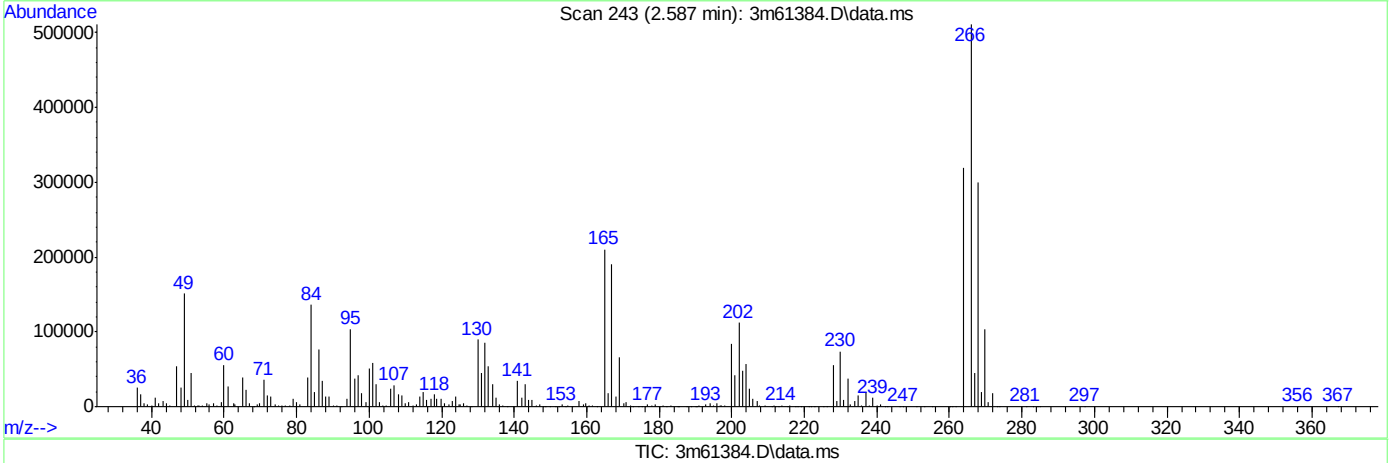
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
423.05	23041	433.90	493	439.30	232		
424.05	4533	434.65	477	439.50	1958		
425.00	625	435.10	761	440.00	219		
426.20	77	435.70	244	441.10	77365		
427.90	84	436.00	341	442.10	455819		
428.70	121	436.25	308	443.10	91195		
429.20	244	437.10	601	444.05	8879		
430.00	186	437.40	414	444.90	283		
432.70	111	437.80	477	445.10	310		
433.10	232	438.10	554	489.25	309		
433.50	257	438.65	1314				

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E3M2887\
Data File : 3m61384.D
Acq On : 17 May 2016 8:56 am
Operator : linseyk
Sample : dftpp
Misc : op99506a,e3m2887
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 17 09:01:04 2016
Quant Method : C:\MSDCHEM\1\METHODS\DFTPP3M.M
Quant Title : DFTPP, RXI-5MS 30m x .25mm x .25um
QLast Update : Wed Dec 09 10:32:40 2015
Response via : Initial Calibration





(1) Pentachlorophenol (t)

2.587min (-0.208) 138.51ppb

response 510851

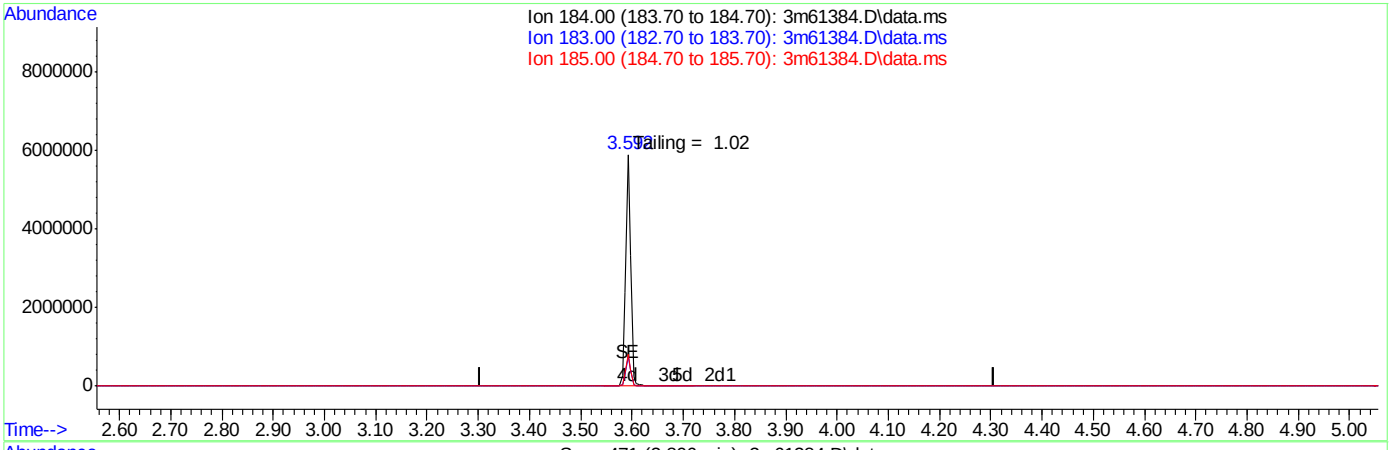
Ion	Exp%	Act%
265.80	100	100
263.80	62.80	62.48
267.80	64.10	58.75
0.00	0.00	0.00

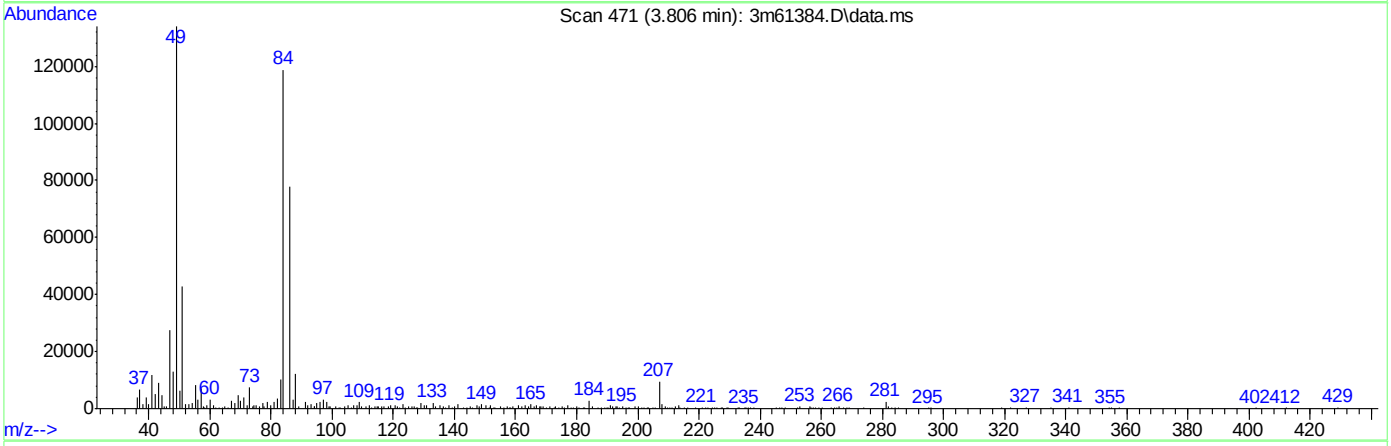
SGS ACCUTEST JC21347

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E3M2887\
Data File : 3m61384.D
Acq On : 17 May 2016 8:56 am
Operator : linseyk
Sample : dftpp
Misc : op99506a,e3m2887
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 17 09:01:04 2016
Quant Method : C:\MSDCHEM\1\METHODS\DFTPP3M.M
Quant Title : DFTPP, RXI-5MS 30m x .25mm x .25um
QLast Update : Wed Dec 09 10:32:40 2015
Response via : Initial Calibration





TIC: 3m61384.D\data.ms

(2) Benzidine (t)

3.806min 0.00ppb d

response 0

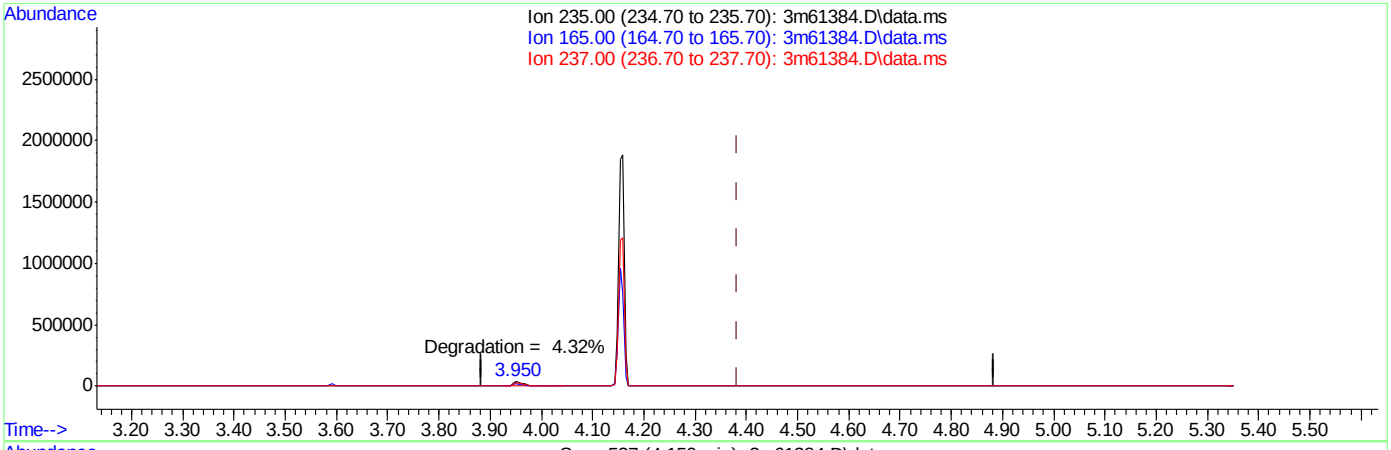
Ion	Exp%	Act%
184.00	100	0.00
183.00	11.50	0.00
185.00	14.40	0.00
0.00	0.00	0.00

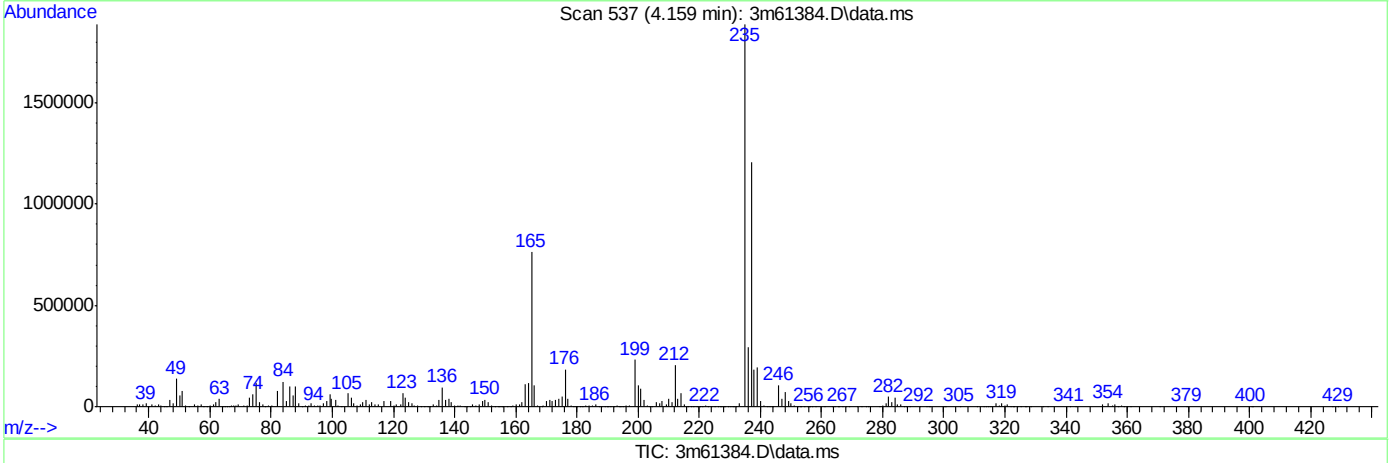
SGS ACCUTEST JC21347

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E3M2887\
Data File : 3m61384.D
Acq On : 17 May 2016 8:56 am
Operator : linseyk
Sample : dftpp
Misc : op99506a,e3m2887
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 17 09:01:04 2016
Quant Method : C:\MSDCHEM\1\METHODS\DFTPP3M.M
Quant Title : DFTPP, RXI-5MS 30m x .25mm x .25um
QLast Update : Wed Dec 09 10:32:40 2015
Response via : Initial Calibration





TIC: 3m61384.D\data.ms

(3) PP-DDT (t)

4.159min (-0.224) 191.01ppb

response 1422778

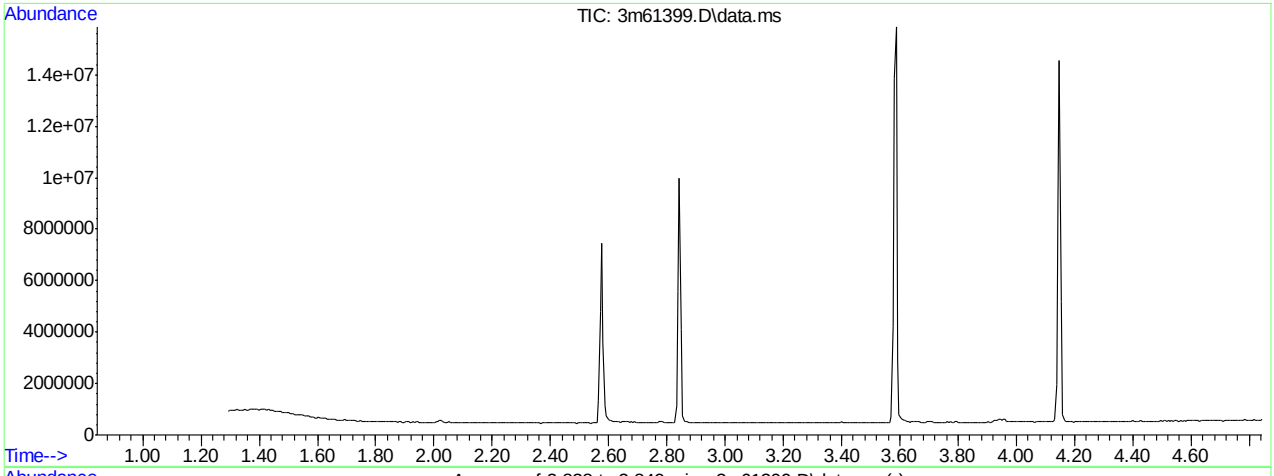
Ion	Exp%	Act%
235.00	100	100
165.00	0.00	47.17#
237.00	0.00	64.05#
0.00	0.00	0.00

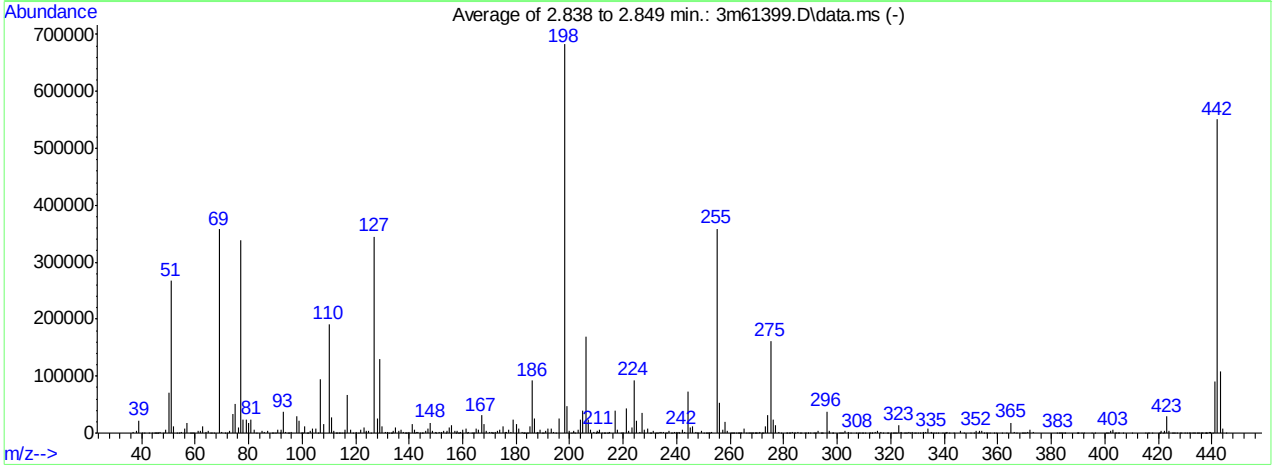
SGS ACCUTEST JC21347

DFTPP

Data File : C:\msdchem\1\DATA\E3M2888\3m61399.D Vial: 1
Acq On : 18 May 2016 9:00 am Operator: linseyk
Sample : dftpp Inst : MS3M
Misc : op99506a,e3m2888 Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\MSDCHEM\1\METHODS\DFTPP3M.M (RTE Integrator)
Title : DFTPP, RXI-5MS 30m x .25mm x .25um





AutoFind: Scans 290, 291, 292; Background Corrected with Scan 285

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	39.1	267029	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	52.4	357507	PASS
70	69	0.00	2	0.5	1860	PASS
127	198	40	60	50.6	345301	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	682517	PASS
199	198	5	9	7.0	47960	PASS
275	198	10	30	23.7	161619	PASS
365	198	1	100	2.7	18721	PASS
441	443	0.10	100	84.3	91392	PASS
442	198	40	100	80.7	550485	PASS
443	442	17	23	19.7	108472	PASS

3m61399.D DFTPP3M.M Wed May 18 09:43:38 2016 RPT1

Average of 2.838 to 2.849 min.: 3m61399.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
37.05	1688	46.00	212	56.00	7200	65.90	583
38.00	4660	46.20	376	57.00	18484	66.30	184
39.10	22610	47.00	2264	58.00	474	67.00	420
40.05	786	48.00	743	58.80	157	69.00	357507
41.05	976	49.00	5816	59.00	207	69.90	1860
42.90	912	50.05	71367	59.40	140	71.20	446
43.90	108	51.00	267029	61.05	4382	71.95	373
44.80	179	52.00	12504	62.05	4848	73.00	4199
45.10	874	53.05	550	63.00	11239	74.05	33919
45.40	340	54.00	636	64.15	1828	75.00	50988
45.70	82	55.00	2090	64.95	4933	76.05	9608

Average of 2.838 to 2.849 min.: 3m61399.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
77.05	339004	89.10	250	98.95	21371	106.95	94157
78.00	23602	90.10	151	99.80	841	108.00	15132
79.00	23976	91.00	5210	100.00	851	109.95	192022
80.00	18612	91.90	322	100.20	286	111.00	28146
80.95	24131	92.15	6003	101.00	12085	112.00	3402
81.95	5505	92.95	36918	101.85	618	112.70	481
82.95	242	93.95	2653	102.10	837	113.05	787
85.00	4819	94.80	471	103.05	4211	113.80	284
85.95	2664	94.90	131	104.00	8244	114.00	332
87.00	3625	95.95	1597	104.95	7560	114.85	502
88.85	636	97.95	28959	105.90	287	115.80	918

Average of 2.838 to 2.849 min.: 3m61399.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
116.15	6201	125.80	339	134.95	9698	142.90	2176
117.00	67587	127.00	345301	135.95	4779	143.10	2072
118.00	5215	128.05	26483	136.95	5032	143.95	958
119.10	1012	129.00	130107	137.90	1389	144.80	336
120.00	1452	129.95	11358	138.50	274	145.10	357
121.20	873	131.00	1448	138.80	183	146.05	3301
121.90	6612	131.95	1382	139.00	464	147.00	8475
122.95	10047	132.30	271	140.10	1990	148.00	17789
123.90	1340	133.05	530	141.00	16441	148.90	3586
124.10	3259	133.70	61	141.90	5288	149.80	252
125.00	4293	134.00	3194	142.10	128	150.15	1101

Average of 2.838 to 2.849 min.: 3m61399.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
151.15	2773	158.90	384	167.00	30770	175.95	2167
151.85	2615	159.15	1613	168.00	15634	176.20	2480
153.05	4981	160.10	5511	168.90	3255	177.00	6722
153.80	451	161.10	7690	170.00	1101	177.95	2664
154.10	4379	161.80	781	170.70	429	178.95	22724
155.05	9504	162.00	1491	170.90	1093	180.00	15260
156.00	13533	163.15	908	171.30	122	181.00	8636
157.15	3073	163.80	249	172.10	2901	182.05	1133
157.60	438	164.20	608	173.05	4226	182.60	326
157.85	3547	164.90	7995	173.95	6069	182.95	377
158.20	234	166.00	6138	175.00	12020	183.20	410

Average of 2.838 to 2.849 min.: 3m61399.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
183.85	505	191.95	7502	201.90	745	210.70	1494
184.20	1035	193.00	8183	202.95	5350	211.00	6679
185.15	12752	193.95	1494	204.05	23526	212.10	221
186.10	91755	194.95	588	205.00	39982	212.60	437

187.00	24834	196.05	26361	206.10	168520	213.10	268
187.80	434	198.00	682517	207.10	23188	213.90	394
188.05	2476	199.00	47960	207.95	6484	214.30	107
189.00	6268	200.00	4179	209.05	2038	214.95	1784
189.80	268	200.70	477	209.70	363	217.05	40003
190.05	755	201.30	1473	210.00	972	218.00	5748
191.10	3621	201.55	3460	210.30	3472	219.05	631

Average of 2.838 to 2.849 min.: 3m61399.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
219.40	234	229.85	880	236.95	3276	245.10	9481
220.00	231	230.20	365	237.85	667	246.00	12172
221.05	43871	231.10	3189	238.20	449	247.00	2673
221.85	3973	232.05	545	239.05	1518	247.70	224
223.10	10246	232.30	323	239.90	261	248.00	714
224.05	93416	233.00	738	240.20	1149	249.05	3204
225.10	22658	233.80	1129	240.80	685	250.00	628
226.10	1065	234.10	1333	241.00	1765	250.70	852
227.05	34536	234.95	2318	242.10	6551	251.30	112
228.00	5238	235.85	884	243.05	2668	251.95	826
229.00	7524	236.10	883	244.10	72051	252.10	308

Average of 2.838 to 2.849 min.: 3m61399.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
252.30	723	262.10	164	267.95	154	274.05	30963
253.00	2041	262.90	168	268.70	47	275.05	161619
255.00	358891	263.15	308	269.30	101	276.05	22885
256.00	53056	263.50	347	269.50	230	277.00	13123
257.05	5324	263.90	242	269.80	199	278.00	2311
258.05	19396	264.05	28	269.95	278	279.10	507
259.00	3488	265.00	7797	270.40	298	280.90	444
260.05	797	265.95	512	271.00	1114	281.20	438
260.50	153	266.85	414	271.75	531	282.00	674
261.00	249	267.25	460	272.10	956	282.50	137
261.40	136	267.60	252	273.00	11532	283.05	1574

Average of 2.838 to 2.849 min.: 3m61399.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
283.80	732	291.60	488	300.90	527	309.60	74
284.10	272	292.15	437	301.10	204	310.20	401
285.05	2966	293.00	3498	301.80	466	311.90	374
285.90	189	293.85	588	302.20	504	312.20	93
286.70	80	294.20	156	303.05	4692	312.90	317
287.90	202	294.40	436	304.00	1591	313.10	214
288.10	109	296.00	38237	305.10	209	314.10	2427
288.90	122	296.80	663	307.10	136	315.00	4984
289.05	392	297.05	4510	307.85	567	316.10	2751
290.05	385	298.10	530	308.10	146	317.00	260
291.05	311	298.40	261	309.05	328	318.70	77

Average of 2.838 to 2.849 min.: 3m61399.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
318.95	201	325.85	248	334.90	320	346.00	3451
320.00	173	326.90	2091	335.15	2312	347.15	679
320.80	98	327.10	753	335.95	332	349.70	146
321.10	1042	328.00	1143	336.60	98	351.20	238
321.80	146	328.90	110	337.80	81	352.05	4134
322.05	960	329.25	347	339.10	363	352.90	645
323.10	14226	330.10	121	340.20	85	353.10	3220
323.80	353	330.90	327	340.75	595	354.10	4734
324.00	2694	332.00	1123	341.05	1340	355.00	823
325.20	161	333.05	1958	341.95	406	355.70	170
325.60	178	334.05	8569	343.50	85	356.20	180

Average of 2.838 to 2.849 min.: 3m61399.D\data.ms

dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
356.70	117	370.50	115	389.50	258	403.05	5066
358.70	101	371.00	1200	389.90	124	403.90	831
359.30	93	372.05	6823	390.15	867	404.15	1054
361.70	83	373.10	2126	391.15	741	405.00	100
363.35	329	382.10	132	392.20	627	405.25	220
365.00	18721	382.85	1052	395.10	81	406.80	93
366.00	2622	383.10	1019	396.10	101	409.90	356
367.05	260	383.90	221	400.40	276	415.05	433
368.90	155	384.10	137	400.85	266	416.10	99
369.25	234	384.90	198	401.20	453	416.30	97
369.85	506	385.10	218	402.10	3295	417.70	221

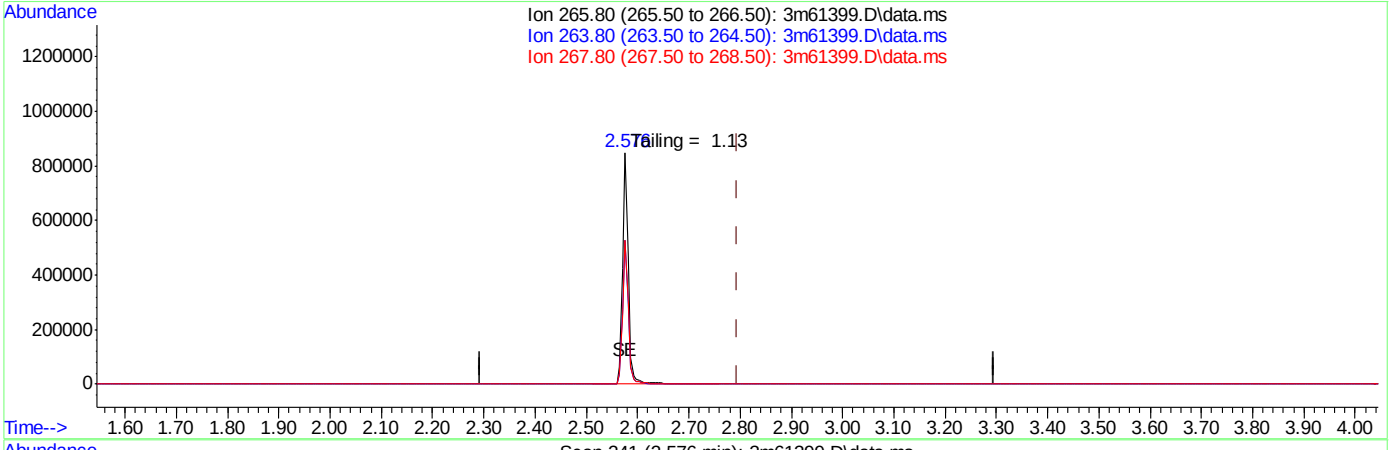
Average of 2.838 to 2.849 min.: 3m61399.D\data.ms
dftpp
Modified:subtracted

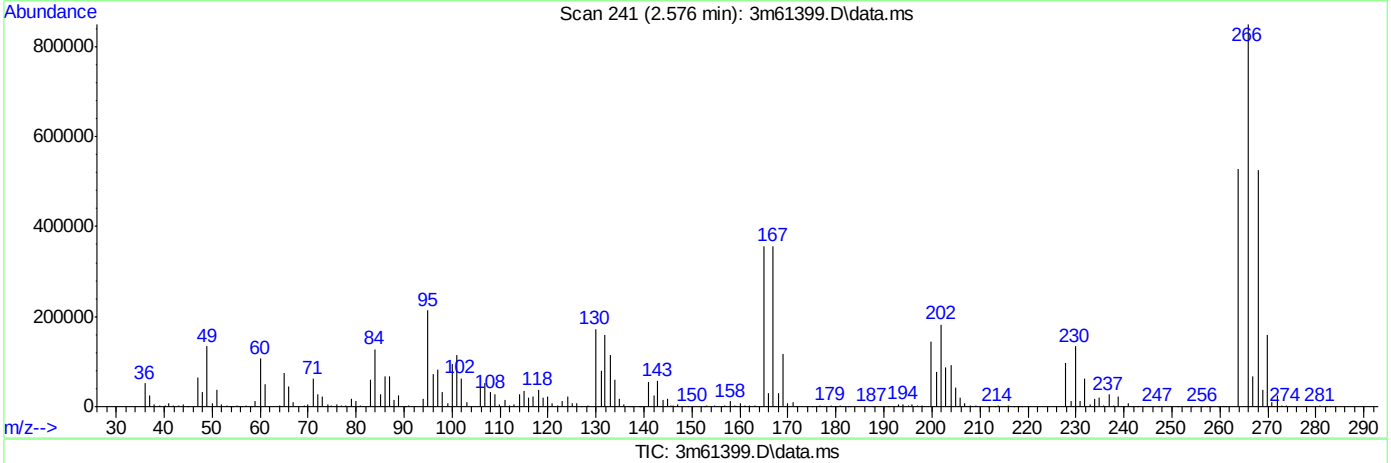
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
420.10	171	427.90	111	435.15	481	440.20	772
420.60	142	428.60	95	435.90	181	441.10	91392
421.10	4452	429.60	269	436.10	872	442.10	550485
421.80	563	430.60	174	436.60	493	443.10	108472
422.15	3623	431.25	478	437.30	574	444.05	8912
423.10	28779	431.85	296	437.60	539	445.10	564
424.10	4501	432.80	177	437.90	459		
425.05	622	433.10	122	438.30	567		
425.60	116	433.70	204	438.85	1857		
426.20	253	434.35	450	439.30	296		
426.90	96	434.80	550	439.50	3008		

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E3M2888\
Data File : 3m61399.D
Acq On : 18 May 2016 9:00 am
Operator : linseyk
Sample : dftpp
Misc : op99506a,e3m2888
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 18 09:04:21 2016
Quant Method : C:\MSDCHEM\1\METHODS\DFTPP3M.M
Quant Title : DFTPP, RXI-5MS 30m x .25mm x .25um
QLast Update : Wed Dec 09 10:32:40 2015
Response via : Initial Calibration





(1) Pentachlorophenol (t)

2.576min (-0.219) 175.96ppb

response 648978

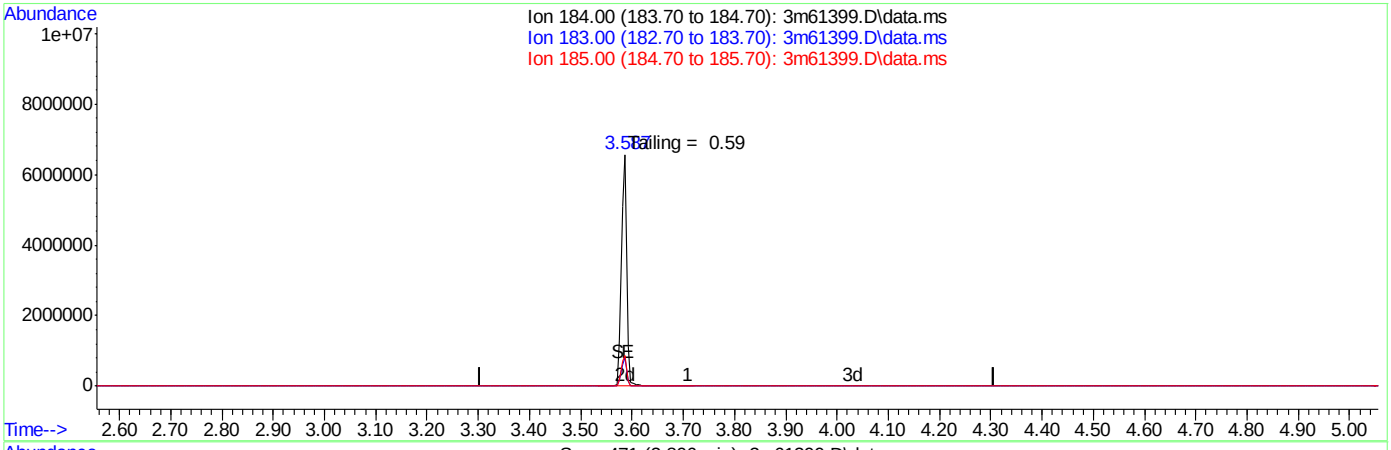
Ion	Exp%	Act%
265.80	100	100
263.80	62.80	62.25
267.80	64.10	61.83
0.00	0.00	0.00

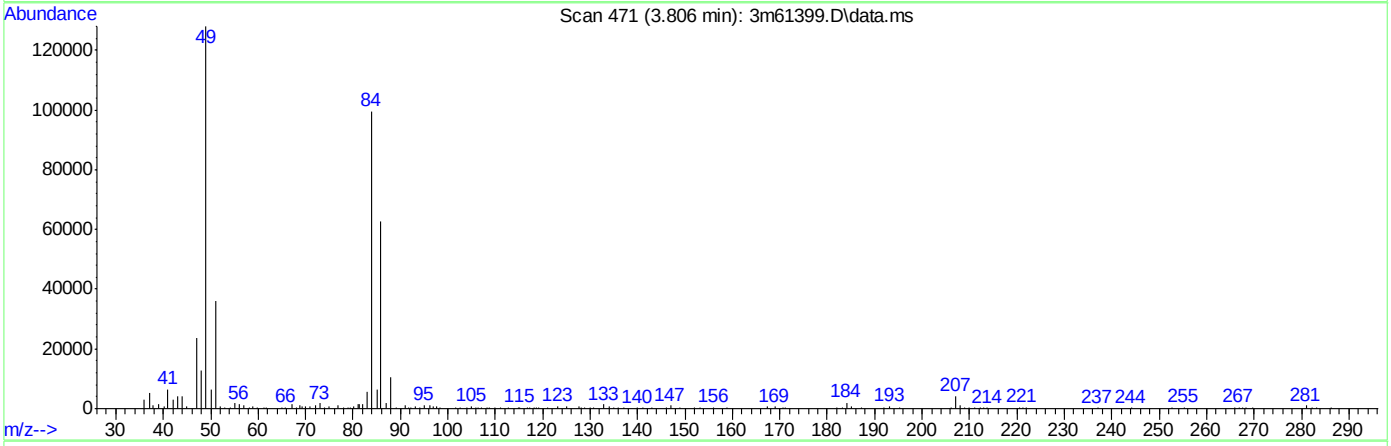
SGS ACCUTEST JC21347

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E3M2888\
Data File : 3m61399.D
Acq On : 18 May 2016 9:00 am
Operator : linseyk
Sample : dftpp
Misc : op99506a,e3m2888
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 18 09:04:21 2016
Quant Method : C:\MSDCHEM\1\METHODS\DFTPP3M.M
Quant Title : DFTPP, RXI-5MS 30m x .25mm x .25um
QLast Update : Wed Dec 09 10:32:40 2015
Response via : Initial Calibration





TIC: 3m61399.D\data.ms

(2) Benzidine (t)

3.806min 0.00ppb d

response 0

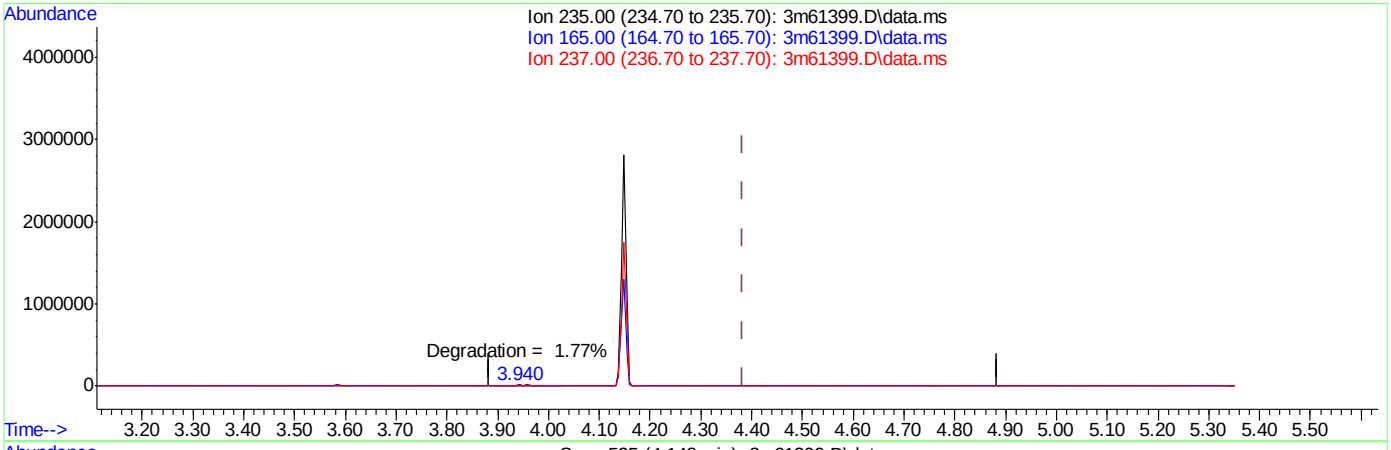
Ion	Exp%	Act%
184.00	100	0.00
183.00	11.50	0.00
185.00	14.40	0.00
0.00	0.00	0.00

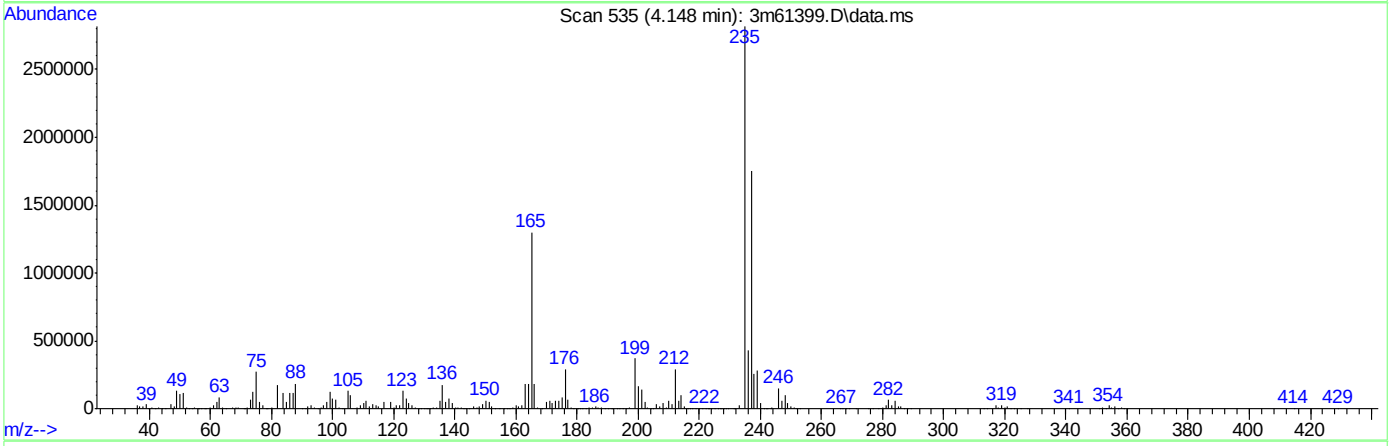
SGS ACCUTEST JC21347

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\DATA\E3M2888\
Data File : 3m61399.D
Acq On    : 18 May 2016   9:00 am
Operator  : linseyk
Sample    : dftpp
Misc      : op99506a,e3m2888
ALS Vial  : 1   Sample Multiplier: 1

Quant Time: May 18 09:04:21 2016
Quant Method : C:\MSDCHEM\1\METHODS\DFTPP3M.M
Quant Title  : DFTPP, RXI-5MS 30m x .25mm x .25um
QLast Update : Wed Dec 09 10:32:40 2015
Response via : Initial Calibration
```





TIC: 3m61399.D\data.ms

(3) PP-DDT (t)

4.148min (-0.235) 239.62ppb

response 1784877

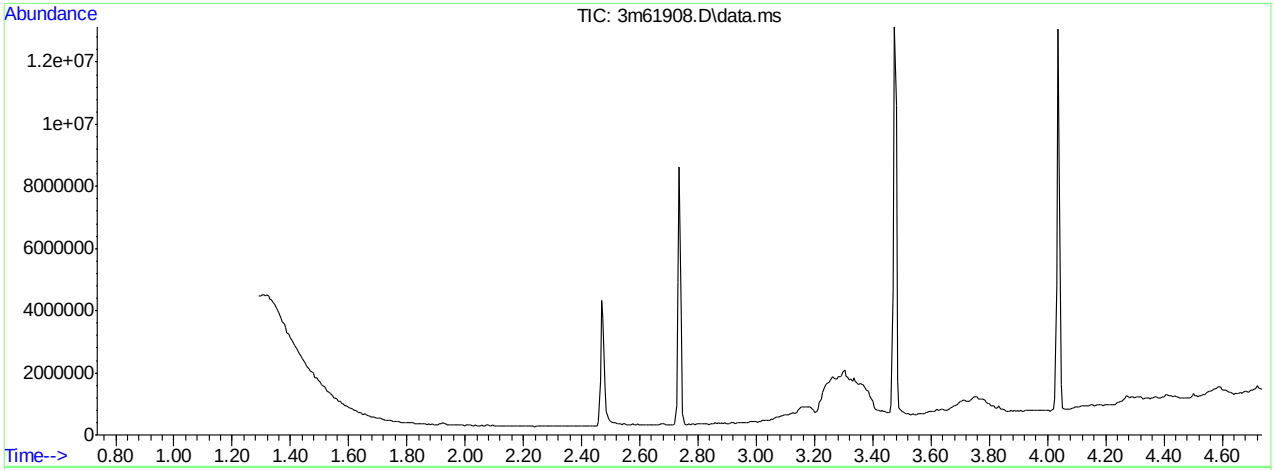
Ion	Exp%	Act%
235.00	100	100
165.00	0.00	47.41#
237.00	0.00	63.22#
0.00	0.00	0.00

SGS ACCUTEST JC21347

DFTPP

Data File : C:\msdchem\1\DATA\E3M2918\3m61908.D Vial: 1
Acq On : 3 Jun 2016 7:44 am Operator: ashleyd
Sample : dftpp Inst : MS3M
Misc : op94207a,e3m2918 Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\MSDCHEM\1\METHODS\DFTPP3M.M (RTE Integrator)
Title : DFTPP, RXI-5MS 30m x .25mm x .25um



AutoFind: Scans 270, 271, 272; Background Corrected with Scan 265

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	39.8	246251	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	53.4	330004	PASS
70	69	0.00	2	0.7	2202	PASS
127	198	40	60	50.2	310162	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	618240	PASS
199	198	5	9	7.2	44680	PASS
275	198	10	30	23.2	143512	PASS
365	198	1	100	2.2	13729	PASS
441	443	0.10	100	94.7	82136	PASS
442	198	40	100	74.8	462571	PASS
443	442	17	23	18.8	86747	PASS

3m61908.D DFTPP3M.M Fri Jun 03 12:28:30 2016 RPT1

Average of 2.731 to 2.742 min.: 3m61908.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.20	1703	45.10	1602	59.30	332	70.10	2202
36.90	1448	47.00	1076	61.00	3552	70.90	1486
37.20	542	49.00	9520	62.00	2666	71.05	149
38.10	4131	49.95	70320	63.00	10575	73.10	2927
39.00	22001	51.00	246251	63.80	137	73.95	31194
39.95	1473	52.05	12532	64.10	1426	74.95	46540
40.15	154	53.00	749	64.50	199	77.00	318878
41.05	632	53.80	174	65.00	4723	78.05	21501
41.90	610	55.05	776	65.85	728	79.00	21422
43.00	2902	56.00	8095	67.40	1266	79.95	16492
44.00	64	57.00	18512	69.00	330004	81.00	22475

Average of 2.731 to 2.742 min.: 3m61908.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
82.05	7988	92.15	4615	103.00	4813	113.10	277
83.05	5623	92.95	33463	104.00	7906	113.30	504
85.00	5832	93.90	2227	104.95	8730	113.70	198
85.90	3121	95.10	1650	105.85	730	114.50	383
86.90	2373	96.00	1351	107.00	85851	115.00	38
88.00	2039	98.00	26337	107.95	14540	116.00	3343
89.00	512	99.00	19508	109.15	849	117.00	62999
89.40	413	100.15	2164	110.00	177973	117.80	793
89.80	339	101.00	11928	110.95	25214	118.00	3516
90.10	138	101.95	1105	111.95	3849	119.05	214
91.00	6323	102.30	506	112.70	414	119.95	1312

Average of 2.731 to 2.742 min.: 3m61908.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
121.15	919	131.00	1807	139.05	1151	146.00	3138
122.00	4789	131.20	664	139.60	562	147.05	7279
122.95	8899	131.80	520	139.95	976	147.95	15668
123.95	4607	132.05	1091	141.00	14597	149.00	3127
124.70	487	133.00	786	141.90	1858	150.10	904
124.90	2812	134.05	3631	142.15	2580	151.20	1541
125.20	570	134.90	4029	143.00	3185	151.40	1813
127.00	310162	135.10	5191	143.70	234	151.90	944
128.10	28134	136.00	4020	143.95	875	152.30	630
129.00	127821	137.05	6326	145.00	341	153.00	4652
130.00	9882	137.95	1213	145.20	651	154.00	4242

Average of 2.731 to 2.742 min.: 3m61908.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
155.00	6945	163.10	488	170.80	807	176.10	3160
156.00	12037	163.20	130	171.00	312	177.00	6852
157.05	3469	163.70	501	171.30	321	177.70	659
157.90	991	164.15	684	171.90	2400	178.05	2598
158.05	2413	164.90	4985	172.30	666	179.00	20932
158.95	1966	166.10	4280	172.60	704	180.10	13467
159.90	1203	167.00	26980	172.90	1343	181.05	6948
160.10	3423	168.00	12561	173.10	1401	182.20	563
161.05	6776	168.95	2308	174.00	6701	183.05	1409
161.80	1033	169.80	637	175.05	10823	183.90	961
162.00	1476	170.10	407	175.80	858	184.10	984

Average of 2.731 to 2.742 min.: 3m61908.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
185.05	11703	194.80	411	204.05	20733	211.90	1587
185.95	82821	195.05	1294	205.05	38344	213.10	384
187.00	21915	196.05	23302	206.10	149899	214.00	541
187.95	2992	198.00	618240	207.00	21323	214.90	587

189.05	4705	199.00	44680	207.95	4515	215.20	1276
189.95	894	199.95	3479	208.70	557	216.10	118
190.95	1429	200.60	795	209.70	334	217.00	33518
191.80	2946	201.40	4135	209.90	861	218.00	4193
192.00	4079	201.60	993	210.75	5406	219.00	960
193.05	7826	202.90	1354	211.15	4779	219.50	317
194.00	1860	203.15	3311	211.60	544	221.00	40334

Average of 2.731 to 2.742 min.: 3m61908.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
221.90	3666	233.10	1078	240.05	1035	248.75	169
223.15	9383	233.95	2912	240.80	1393	249.15	1948
224.05	78600	234.70	628	241.05	855	249.40	245
225.00	20234	235.05	2737	242.05	4819	249.80	78
225.90	323	235.85	1582	243.05	5765	250.15	520
227.00	33004	236.30	220	244.10	61176	251.05	762
227.95	4719	237.10	3159	245.00	6949	251.40	112
229.05	6871	237.90	97	245.20	2047	251.70	386
230.15	1556	238.10	465	246.00	11726	252.00	657
231.15	3220	238.90	257	247.00	3184	252.30	462
232.00	219	239.20	930	247.95	970	253.15	2556

Average of 2.731 to 2.742 min.: 3m61908.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
253.50	696	261.80	85	269.10	324	277.05	10656
255.00	317781	262.20	127	269.90	398	278.10	2297
256.00	46858	262.90	137	270.20	498	279.05	445
256.95	4410	263.30	193	270.95	942	279.30	163
258.05	16056	264.10	440	271.30	384	280.80	348
259.05	2351	264.90	1574	271.85	817	281.10	448
260.00	269	265.00	4561	272.10	334	282.05	164
260.20	423	265.80	556	273.05	10386	282.80	262
260.60	131	266.00	407	274.05	25773	283.05	374
261.00	278	267.80	296	275.05	143512	284.10	830
261.30	302	268.85	511	276.05	19029	285.00	1510

Average of 2.731 to 2.742 min.: 3m61908.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
285.20	579	291.30	89	298.60	92	308.80	117
285.70	116	291.70	125	298.90	78	309.05	291
286.30	144	292.15	673	300.90	94	309.45	266
287.70	116	293.15	2741	301.20	455	309.70	183
288.15	374	294.00	559	301.90	1389	310.00	407
288.90	324	294.40	191	303.00	4517	312.00	240
289.10	256	294.70	371	303.80	301	313.15	608
289.40	201	294.90	932	304.05	1127	313.40	130
290.00	453	296.05	33605	305.10	517	314.20	2732
290.30	153	297.10	5523	307.20	445	314.95	3856
290.80	187	298.10	144	308.10	740	315.80	186

Average of 2.731 to 2.742 min.: 3m61908.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
316.05	1622	324.30	692	333.20	251	344.80	176
316.90	235	325.05	485	334.10	6169	345.30	285
318.40	183	326.20	944	335.15	2020	345.85	1122
319.20	277	326.80	497	336.20	129	346.15	1803
320.10	157	327.05	1390	338.90	89	347.20	658
320.50	544	327.70	650	339.10	318	350.40	84
320.70	503	328.10	1301	340.20	138	350.85	446
321.20	1177	329.10	110	340.80	186	351.15	623
321.90	489	329.90	404	341.05	1035	351.80	385
323.00	12325	331.40	330	341.90	195	352.05	3189
324.00	2545	332.05	914	343.10	84	352.90	244

Average of 2.731 to 2.742 min.: 3m61908.D\data.ms

dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
353.05	2664	363.70	243	372.80	284	390.15	708
353.90	993	364.10	322	372.95	1429	391.15	591
354.05	3605	365.05	13729	374.10	87	392.20	533
355.10	411	366.05	2480	381.20	90	401.00	228
355.30	360	366.70	78	382.10	75	401.30	301
356.10	92	367.20	469	382.80	147	402.05	2432
357.90	239	369.20	435	383.10	871	403.10	3483
358.95	246	369.80	204	383.30	475	403.95	1205
362.10	244	370.25	453	384.05	264	410.10	87
362.70	253	371.10	1185	385.15	275	415.30	158
363.50	210	372.10	5325	389.90	400	415.55	298

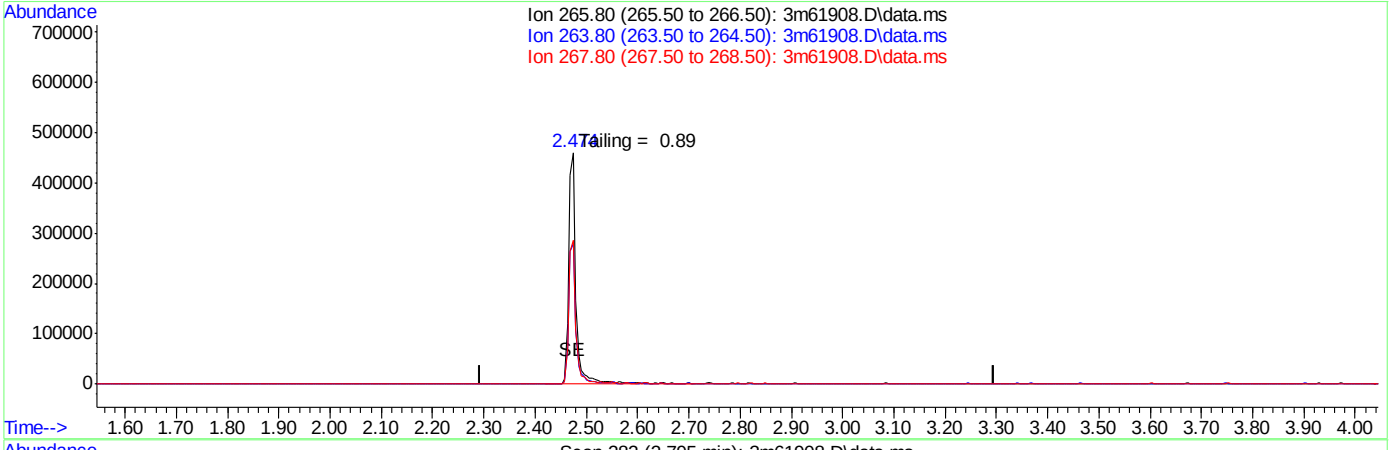
Average of 2.731 to 2.742 min.: 3m61908.D\data.ms
dftpp
Modified:subtracted

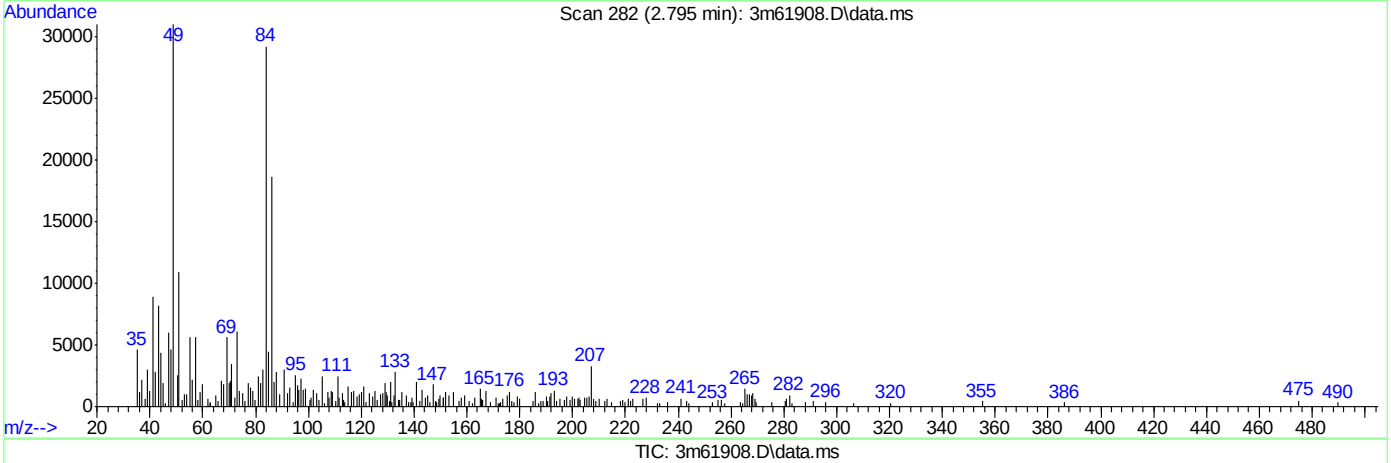
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
417.10	333	429.60	116	435.30	299	442.10	462571
418.80	761	430.10	369	435.65	410	443.10	86747
419.75	409	430.50	402	436.00	398	444.10	8911
420.70	307	431.60	244	436.30	446	445.15	594
421.15	2866	432.20	282	436.60	893		
422.05	4433	432.50	183	437.20	675		
423.10	24605	433.10	123	437.90	1256		
424.05	5970	433.30	195	438.30	109		
425.05	584	434.30	257	439.10	3514		
427.00	198	434.55	691	439.70	2372		
428.45	370	435.00	84	441.15	82136		

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E3M2918\
Data File : 3m61908.D
Acq On : 3 Jun 2016 7:44 am
Operator : ashleyd
Sample : dftpp
Misc : op94207a,e3m2918
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 03 07:48:29 2016
Quant Method : C:\MSDCHEM\1\METHODS\DFTPP3M.M
Quant Title : DFTPP, RXI-5MS 30m x .25mm x .25um
QLast Update : Wed Dec 09 10:32:40 2015
Response via : Initial Calibration





TIC: 3m61908.D\data.ms

(1) Pentachlorophenol (t)

2.795min 0.00ppb d

response 0

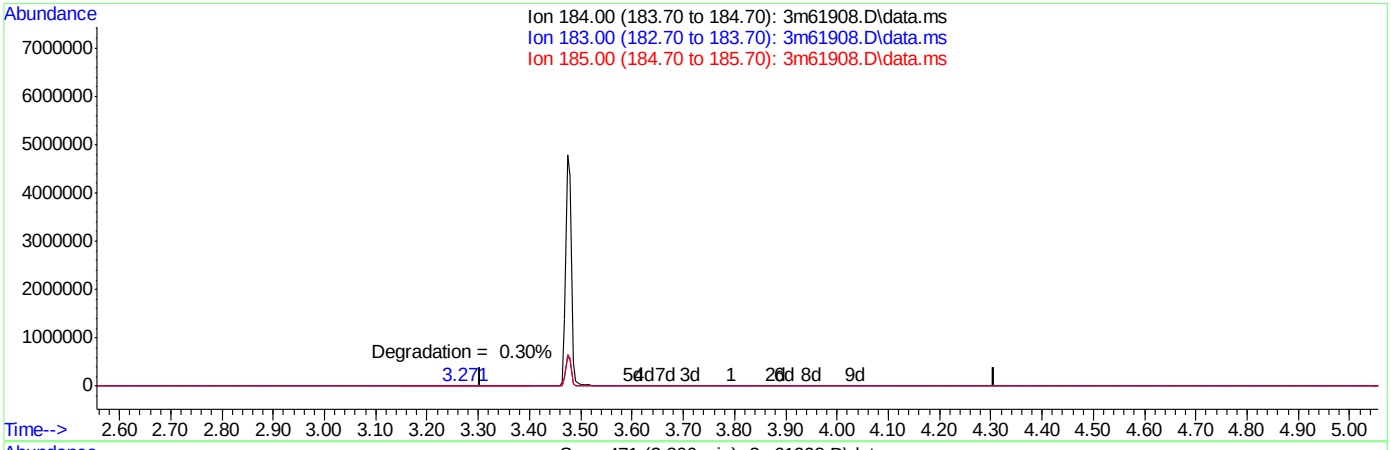
Ion	Exp%	Act%
265.80	100	0.00
263.80	62.80	0.00
267.80	64.10	0.00
0.00	0.00	0.00

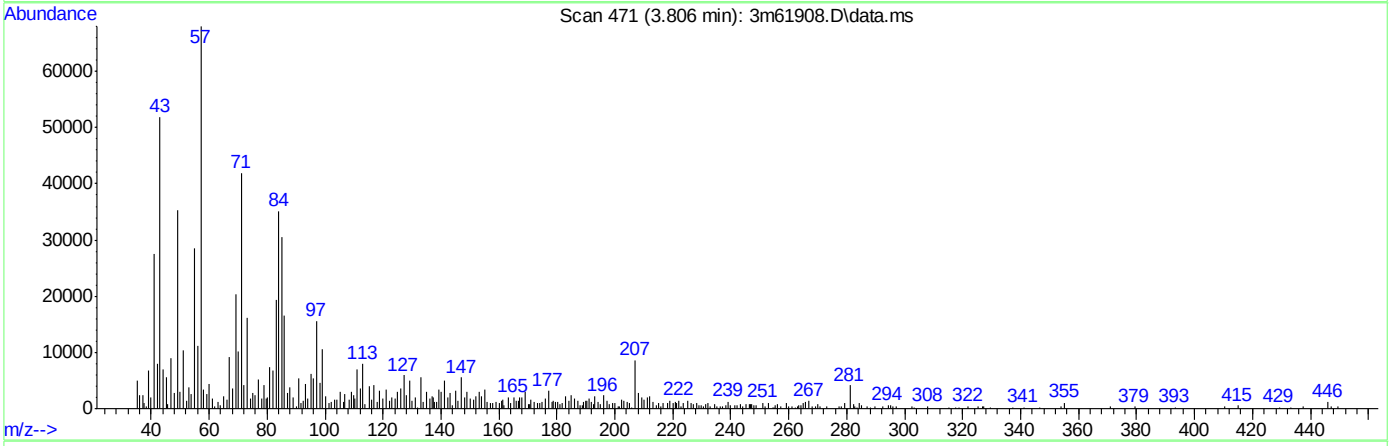
SGS ACCUTEST JC21347

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E3M2918\
Data File : 3m61908.D
Acq On : 3 Jun 2016 7:44 am
Operator : ashleyd
Sample : dftpp
Misc : op94207a,e3m2918
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 03 07:48:29 2016
Quant Method : C:\MSDCHEM\1\METHODS\DFTPP3M.M
Quant Title : DFTPP, RXI-5MS 30m x .25mm x .25um
QLast Update : Wed Dec 09 10:32:40 2015
Response via : Initial Calibration





TIC: 3m61908.D\data.ms

(2) Benzidine (t)

3.806min 0.00ppb d

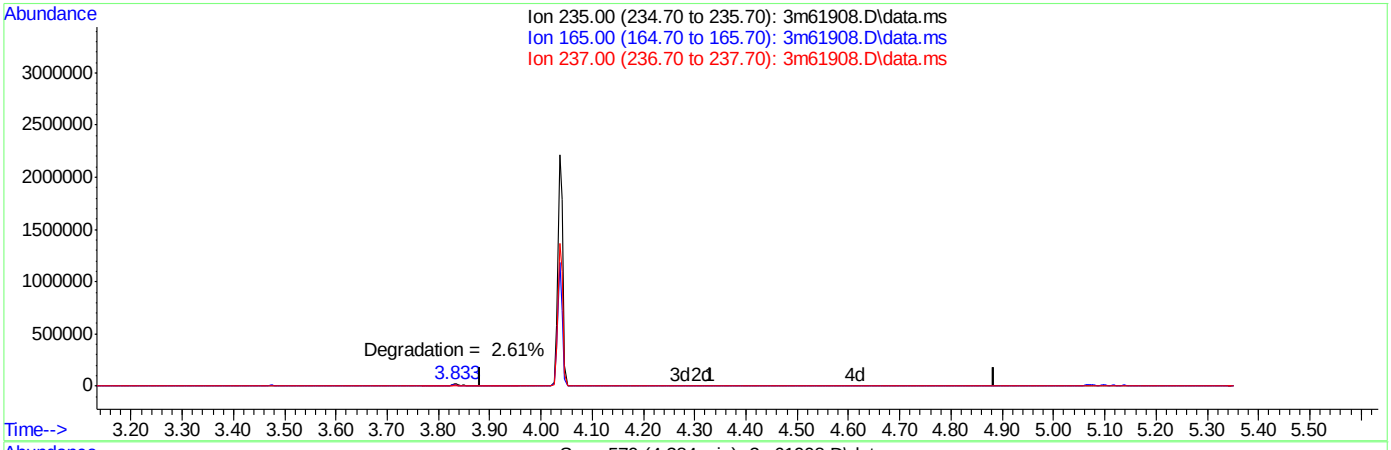
response 0

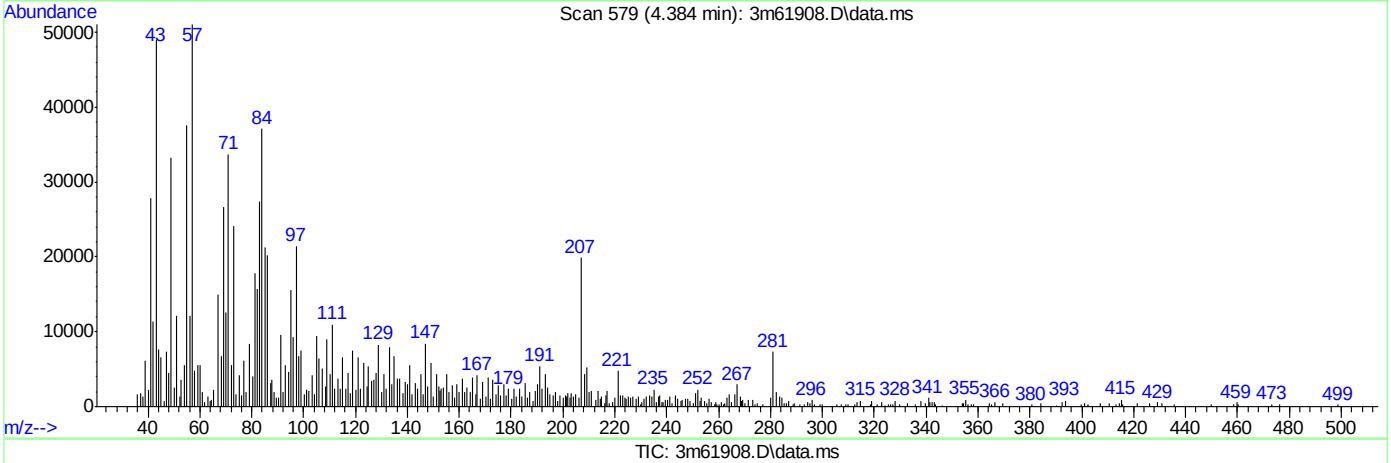
Ion	Exp%	Act%
184.00	100	0.00
183.00	11.50	0.00
185.00	14.40	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E3M2918\
Data File : 3m61908.D
Acq On : 3 Jun 2016 7:44 am
Operator : ashleyd
Sample : dftpp
Misc : op94207a,e3m2918
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 03 07:48:29 2016
Quant Method : C:\MSDCHEM\1\METHODS\DFTPP3M.M
Quant Title : DFTPP, RXI-5MS 30m x .25mm x .25um
QLast Update : Wed Dec 09 10:32:40 2015
Response via : Initial Calibration





TIC: 3m61908.D\data.ms

(3) PP-DDT (t)

4.384min 0.00ppb d

response 0

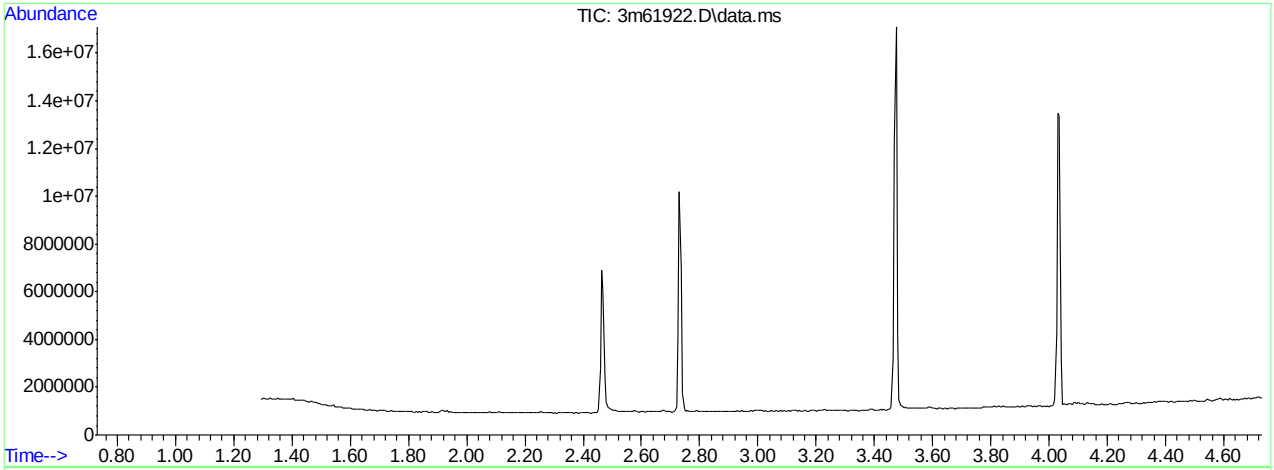
Ion	Exp%	Act%
235.00	100	0.00
165.00	0.00	0.00
237.00	0.00	0.00
0.00	0.00	0.00

SGS ACCUTEST JC21347

DFTPP

Data File : C:\msdchem\1\DATA\E3M2919\3m61922.D Vial: 1
Acq On : 3 Jun 2016 3:08 pm Operator: linseyk
Sample : dftpp Inst : MS3M
Misc : op94255a,e3m2919 Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\MSDCHEM\1\METHODS\DFTPP3M.M (RTE Integrator)
Title : DFTPP, RXI-5MS 30m x .25mm x .25um



AutoFind: Scans 269, 270, 271; Background Corrected with Scan 262

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	41.4	288709	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	54.1	377380	PASS
70	69	0.00	2	0.5	1928	PASS
127	198	40	60	52.3	364553	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	697304	PASS
199	198	5	9	6.5	45385	PASS
275	198	10	30	22.6	157773	PASS
365	198	1	100	2.3	16365	PASS
441	443	0.10	100	84.3	78400	PASS
442	198	40	100	70.3	489979	PASS
443	442	17	23	19.0	92959	PASS

3m61922.D DFTPP3M.M Sun Jun 05 17:02:21 2016 RPT1

Average of 2.726 to 2.736 min.: 3m61922.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
35.95	2059	52.00	16359	61.05	4175	73.10	4626
37.00	2454	53.00	717	62.05	4919	74.05	35917
38.05	3842	54.25	732	63.00	13109	74.95	53356
39.00	24745	55.05	2382	64.05	1994	77.00	362738
40.00	1209	56.00	8998	65.05	7183	78.05	23057
41.00	1666	56.95	20493	66.00	727	79.00	26808
43.00	749	57.90	1428	66.30	598	80.00	19465
44.00	173	58.60	184	69.00	377380	80.95	28284
45.00	1456	59.20	393	69.95	1928	81.95	4635
49.95	82122	59.35	1080	71.60	497	83.90	4480
51.00	288709	59.85	1304	72.10	911	85.90	7757

Average of 2.726 to 2.736 min.: 3m61922.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
87.00	792	96.85	1017	106.05	788	116.95	73917
87.90	3131	97.90	6584	107.00	103503	118.00	4001
89.05	162	98.00	22338	108.00	16388	118.90	691
89.80	89	99.00	20926	110.00	198031	119.20	468
90.30	224	100.00	2843	110.95	29001	119.85	746
90.90	7625	101.05	12896	111.95	3752	120.15	323
92.00	7594	101.90	583	113.10	1462	120.55	709
92.95	41511	102.20	920	114.00	332	121.95	7684
94.00	2722	103.00	4884	114.20	300	123.00	9661
94.80	799	103.95	8959	115.20	2006	123.90	1506
96.15	1715	105.00	6271	116.05	1566	124.10	2376

Average of 2.726 to 2.736 min.: 3m61922.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
125.10	3316	135.00	10220	143.10	2952	151.10	1919
127.00	364553	136.10	3960	144.05	949	151.95	2836
128.00	31162	137.00	4576	144.80	258	152.90	4789
128.95	140035	137.90	534	145.10	422	153.90	802
129.90	12516	138.30	485	145.85	1680	154.05	3348
131.05	2840	138.85	749	146.10	2411	155.00	9341
131.80	1045	139.05	188	146.90	1918	156.05	14402
132.10	1012	139.95	759	147.15	5963	157.15	3184
132.95	395	140.95	19438	147.90	17217	157.80	2135
133.20	678	142.05	4199	149.00	3345	158.10	1821
134.00	3751	142.80	2054	150.00	1090	159.10	2528

Average of 2.726 to 2.736 min.: 3m61922.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
160.05	4442	168.90	2367	177.15	234	183.95	1560
161.00	5850	170.05	1738	178.00	2674	184.20	1044
161.95	2020	171.00	2130	178.95	22258	184.90	1499
162.60	514	171.80	1166	180.00	17988	185.10	10615
162.80	449	172.00	2273	180.95	7114	186.00	98521
163.00	912	173.00	5098	181.20	308	187.00	26465
164.10	894	173.95	7076	181.80	538	187.80	12
165.05	7096	174.90	1232	182.15	1614	188.05	2390
165.95	5239	175.10	11688	182.75	591	188.95	5867
166.95	31971	176.00	5426	183.00	93	190.00	1469
168.10	13759	176.85	5400	183.45	634	191.20	3134

Average of 2.726 to 2.736 min.: 3m61922.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
191.90	7818	201.20	796	209.90	1729	215.30	717
193.00	7552	201.40	4201	210.10	1200	216.95	40242
194.00	468	201.85	8	210.50	3061	217.90	4985
194.15	1619	203.15	4045	210.70	3024	218.85	235

194.60	688	204.05	23866	211.10	3597	219.20	584
194.90	2132	205.00	42320	211.60	2743	219.50	266
195.95	25938	206.10	178327	212.80	390	219.85	194
197.95	697304	207.05	26641	213.10	19	221.10	45691
198.95	45385	207.95	6555	213.90	273	221.70	3498
199.90	968	208.85	2609	214.10	168	222.90	4480
200.00	2109	209.25	32	214.85	1821	224.00	95158

Average of 2.726 to 2.736 min.: 3m61922.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
225.00	23854	234.05	2749	244.10	69879	251.90	578
225.80	468	234.95	4153	245.05	10830	252.10	444
227.00	36865	235.70	322	246.00	12342	252.75	1314
228.00	4866	236.00	2491	247.05	2578	253.00	775
228.80	1147	236.40	172	248.05	835	255.00	352576
229.00	6545	237.00	2521	248.70	252	256.00	50749
230.15	166	238.15	1195	249.00	3053	256.90	549
231.00	3515	239.15	1099	249.80	570	257.05	4018
232.15	782	239.90	1343	250.15	411	258.00	16538
232.90	626	241.00	2909	250.60	378	258.80	349
233.15	909	242.05	4439	251.25	1270	259.05	2529

Average of 2.726 to 2.736 min.: 3m61922.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
260.00	297	267.05	336	275.05	157773	283.90	663
260.30	477	267.40	204	276.10	18110	284.20	705
260.95	758	267.80	533	277.00	12278	285.10	2590
261.90	119	268.90	17	278.00	2050	286.05	565
262.10	219	269.60	385	279.15	358	287.10	160
262.30	133	270.10	346	280.10	16	287.75	349
263.00	373	271.05	1102	281.05	634	288.50	312
263.80	381	271.50	410	281.90	626	289.00	382
264.15	1120	271.95	510	282.10	488	289.40	274
264.95	6839	273.05	11456	282.40	307	289.80	379
266.05	1625	274.10	32980	283.00	1134	290.10	228

Average of 2.726 to 2.736 min.: 3m61922.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
290.60	221	297.05	5327	306.40	144	313.70	602
290.90	521	297.90	317	307.00	112	314.30	1461
291.20	197	298.40	271	308.05	628	314.70	233
291.80	164	300.25	505	308.90	187	315.00	4282
292.15	585	300.85	579	309.15	402	315.70	138
292.70	259	301.50	123	309.55	391	315.90	1185
293.05	2498	301.70	340	310.25	675	316.15	1724
293.50	183	302.10	485	311.05	248	317.05	322
293.90	1096	303.15	5129	311.90	99	317.70	100
294.40	165	304.05	1642	312.65	455	320.10	145
296.05	38337	305.05	217	313.20	574	320.70	328

Average of 2.726 to 2.736 min.: 3m61922.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
320.90	763	329.20	198	335.90	319	347.35	394
321.10	822	329.80	100	338.70	254	349.95	489
322.10	95	330.40	90	339.30	74	350.70	230
323.00	11773	331.10	142	340.10	153	351.00	81
324.10	2539	331.30	236	341.10	1514	351.80	205
324.90	374	331.90	545	341.80	348	352.05	4023
325.50	335	332.20	892	342.00	453	352.30	276
326.80	227	333.10	1099	343.20	167	353.10	2814
327.05	2274	333.40	833	345.20	193	353.70	552
327.80	834	334.00	8211	345.90	2387	354.05	4005
328.95	331	335.05	1498	346.75	283	355.25	521

Average of 2.726 to 2.736 min.: 3m61922.D\data.ms

dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
357.30	101	367.20	171	382.90	899	402.10	2506
359.00	262	369.95	860	383.10	698	402.70	226
359.40	168	370.90	131	383.95	287	403.10	4642
361.10	196	371.05	1321	384.95	288	403.80	190
362.30	436	372.00	608	388.20	83	404.05	732
362.60	195	372.15	4682	390.15	824	405.00	73
363.10	345	373.10	840	390.95	662	406.40	107
365.05	16365	373.30	644	391.95	340	410.00	163
365.90	250	374.10	198	400.40	148	410.25	201
366.10	1737	374.80	194	401.15	665	411.40	112
366.90	94	380.90	121	401.70	114	415.25	164

Average of 2.726 to 2.736 min.: 3m61922.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
418.60	84	424.30	1898	433.80	656	438.30	851
419.10	98	424.90	609	434.25	600	438.70	123
419.70	380	427.70	117	434.80	245	439.10	1191
420.20	195	429.05	258	435.35	519	439.35	2168
420.90	352	429.60	84	435.70	234	440.00	3194
421.10	1201	430.10	222	436.25	413	441.10	78400
421.30	1724	430.40	92	436.40	630	442.10	489979
421.70	1028	431.00	180	436.60	353	443.10	92959
422.20	2487	431.80	323	437.25	1185	443.90	471
423.10	22679	432.75	529	437.60	556	444.10	8370
424.10	3355	433.40	461	438.10	407	444.90	170

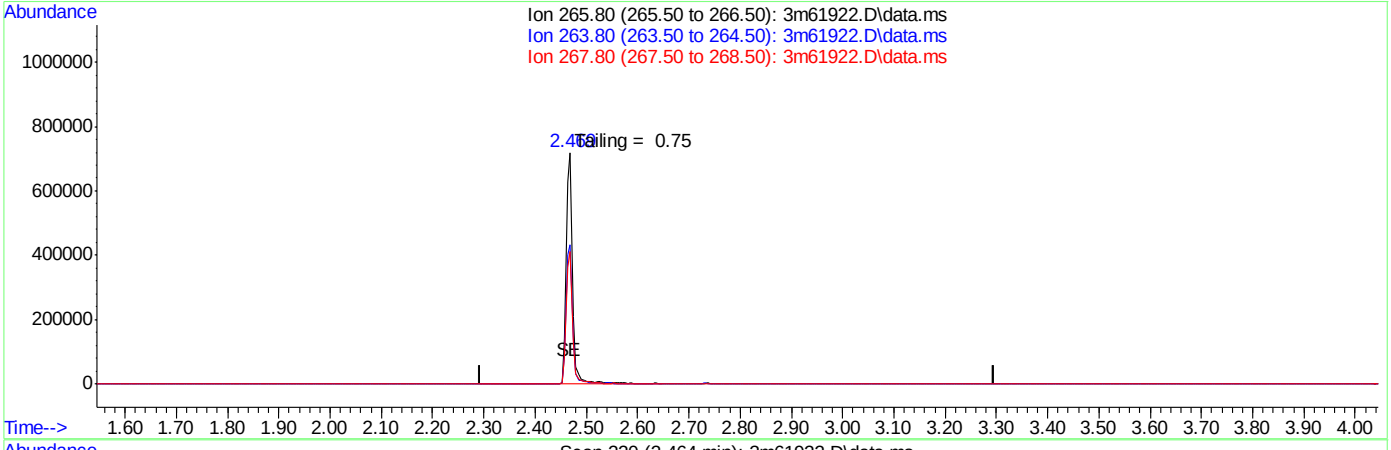
Average of 2.726 to 2.736 min.: 3m61922.D\data.ms
dftpp
Modified:subtracted

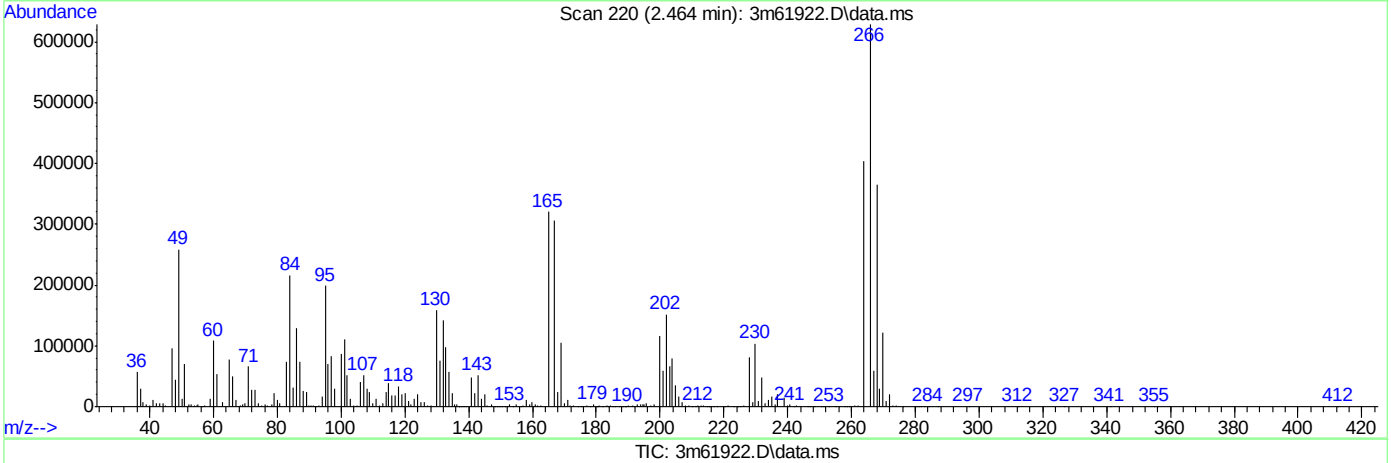
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
445.25	639						
488.90	87						

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E3M2919\
Data File : 3m61922.D
Acq On : 3 Jun 2016 3:08 pm
Operator : linseyk
Sample : dftpp
Misc : op94255a,e3m2919
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 03 17:27:28 2016
Quant Method : C:\MSDCHEM\1\METHODS\DFTPP3M.M
Quant Title : DFTPP, RXI-5MS 30m x .25mm x .25um
QLast Update : Wed Dec 09 10:32:40 2015
Response via : Initial Calibration





TIC: 3m61922.D\data.ms

(1) Pentachlorophenol (t)

2.795min 0.00ppb d

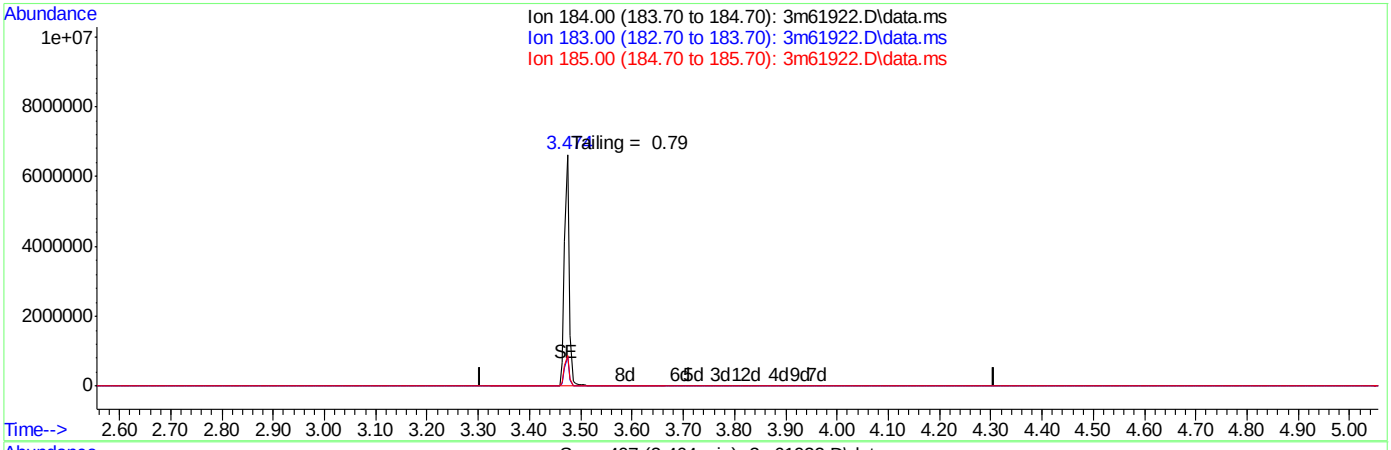
response 0

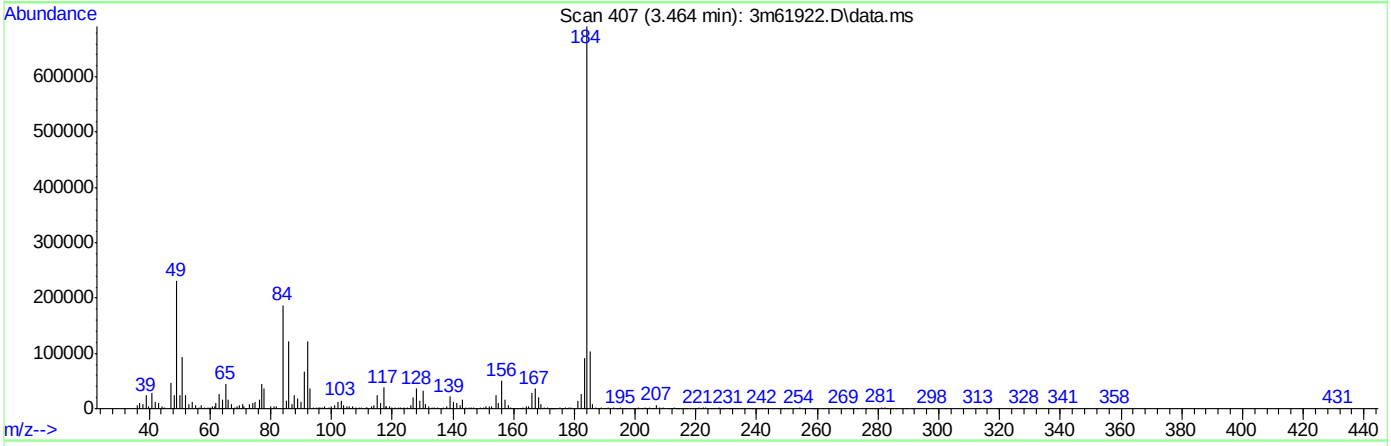
Ion	Exp%	Act%
265.80	100	0.00
263.80	62.80	0.00
267.80	64.10	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E3M2919\
Data File : 3m61922.D
Acq On : 3 Jun 2016 3:08 pm
Operator : linseyk
Sample : dftpp
Misc : op94255a,e3m2919
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 03 17:27:28 2016
Quant Method : C:\MSDCHEM\1\METHODS\DFTPP3M.M
Quant Title : DFTPP, RXI-5MS 30m x .25mm x .25um
QLast Update : Wed Dec 09 10:32:40 2015
Response via : Initial Calibration





TIC: 3m61922.D\data.ms

(2) Benzidine (t)

3.806min 0.00ppb d

response 0

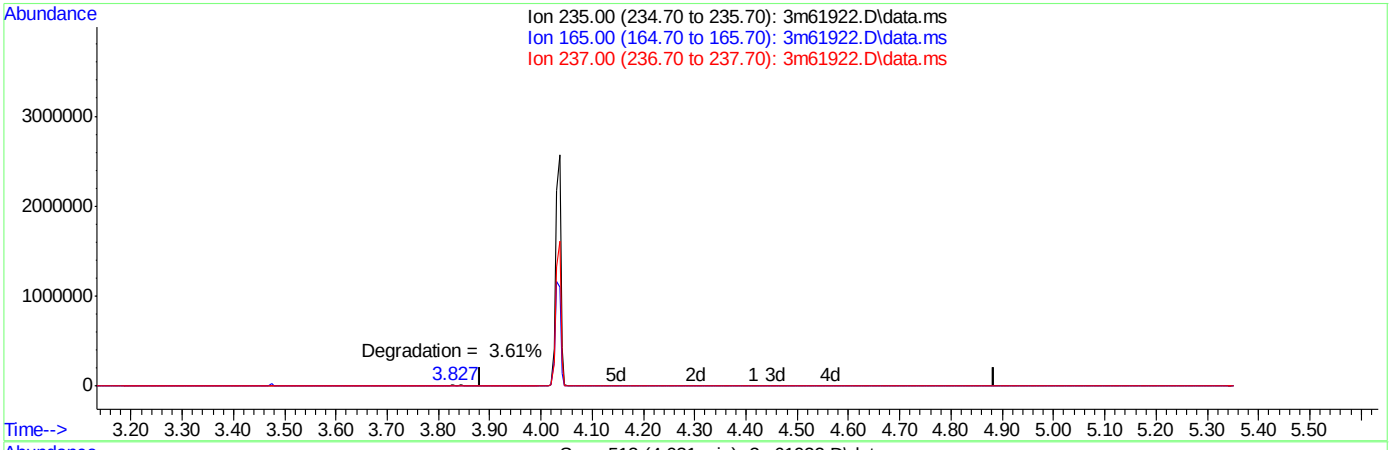
Ion	Exp%	Act%
184.00	100	0.00
183.00	11.50	0.00
185.00	14.40	0.00
0.00	0.00	0.00

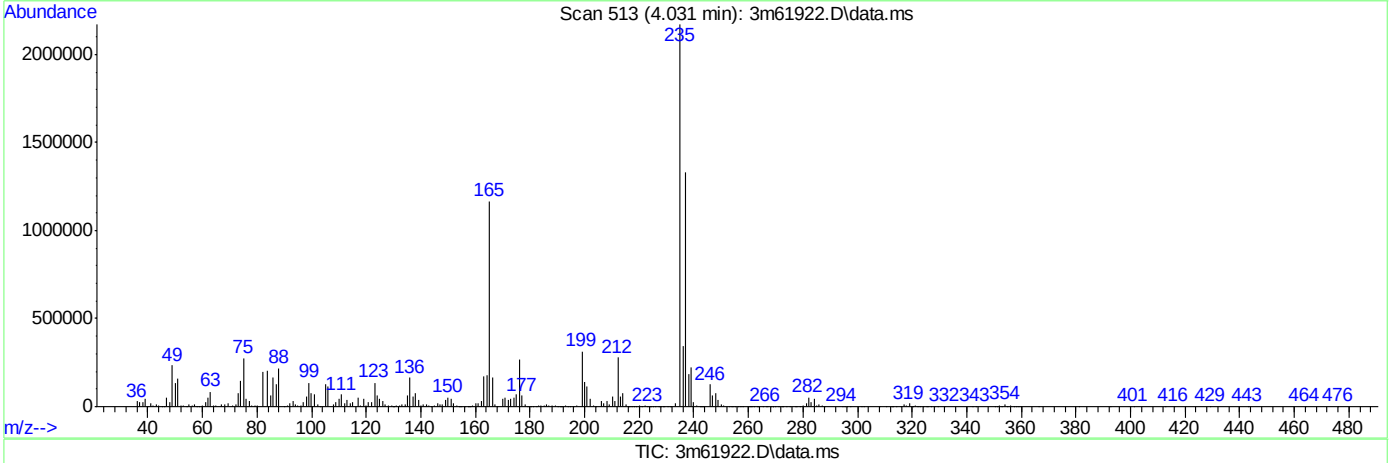
SGS ACCUTEST JC21347

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E3M2919\
Data File : 3m61922.D
Acq On : 3 Jun 2016 3:08 pm
Operator : linseyk
Sample : dftpp
Misc : op94255a,e3m2919
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 03 17:27:28 2016
Quant Method : C:\MSDCHEM\1\METHODS\DFTPP3M.M
Quant Title : DFTPP, RXI-5MS 30m x .25mm x .25um
QLast Update : Wed Dec 09 10:32:40 2015
Response via : Initial Calibration





TIC: 3m61922.D\data.ms

(3) PP-DDT (t)

4.384min 0.00ppb d

response 0

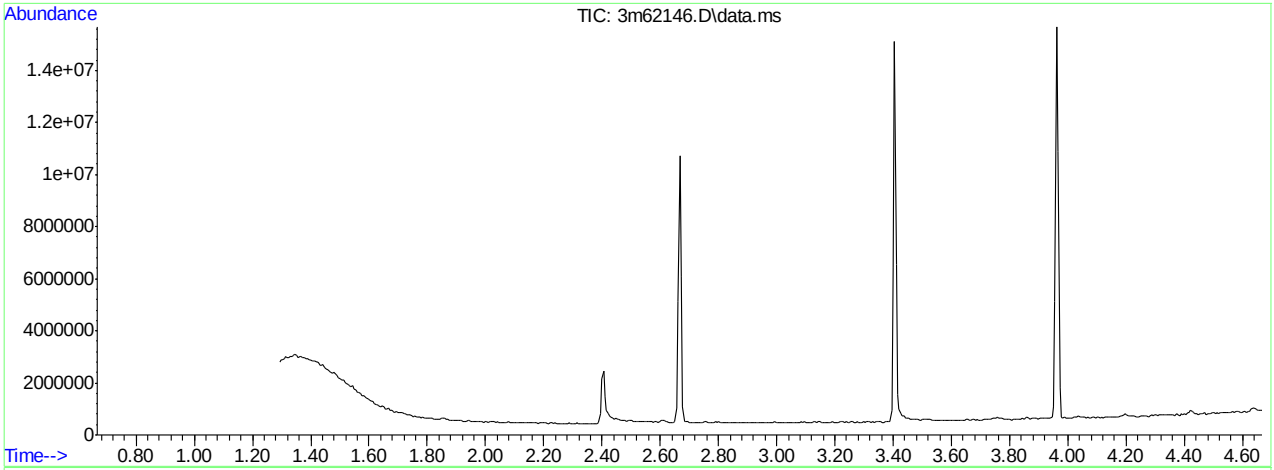
Ion	Exp%	Act%
235.00	100	0.00
165.00	0.00	0.00
237.00	0.00	0.00
0.00	0.00	0.00

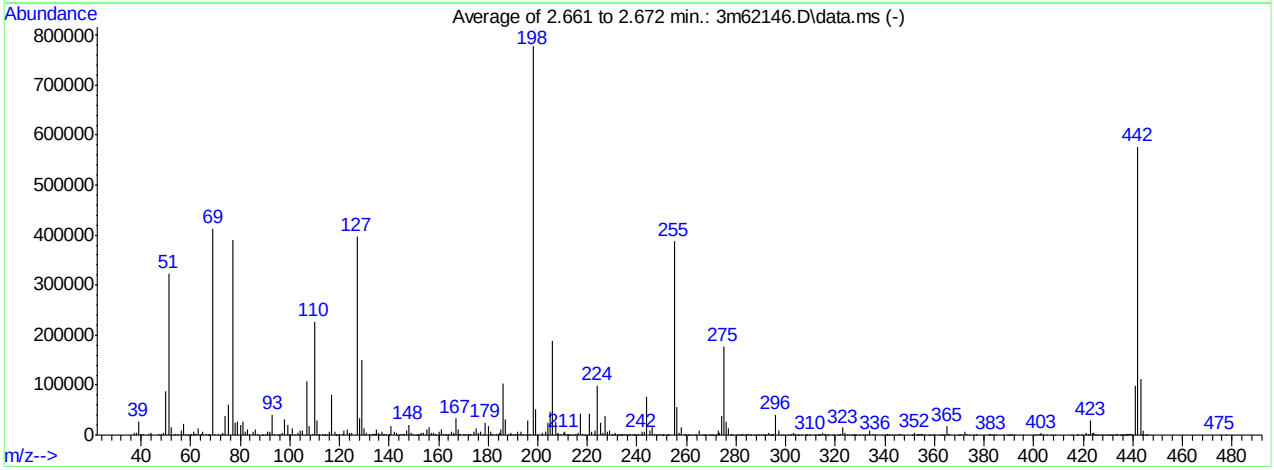
SGS ACCUTEST JC21347

DFTPP

Data File : C:\msdchem\1\DATA\E3M2930\3m62146.D Vial: 1
Acq On : 10 Jun 2016 8:33 pm Operator: juliusj
Sample : dftpp Inst : MS3M
Misc : op94389a,e3m2930 Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\MSDCHEM\1\METHODS\DFTPP3M.M (RTE Integrator)
Title : DFTPP, RXI-5MS 30m x .25mm x .25um





AutoFind: Scans 257, 258, 259; Background Corrected with Scan 251

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	41.6	323739	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	53.1	412956	PASS
70	69	0.00	2	0.3	1226	PASS
127	198	40	60	51.2	397848	PASS
197	198	0.00	1	0.4	3174	PASS
198	198	100	100	100.0	777323	PASS
199	198	5	9	6.6	51112	PASS
275	198	10	30	22.8	177221	PASS
365	198	1	100	2.4	18811	PASS
441	443	0.10	100	87.5	98712	PASS
442	198	40	100	74.2	577067	PASS
443	442	17	23	19.5	112776	PASS

3m62146.D DFTPP3M.M Mon Jun 13 10:28:13 2016 RPT1

Average of 2.661 to 2.672 min.: 3m62146.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
37.00	3742	51.00	323739	61.00	5738	69.95	1226
38.15	4956	52.05	16648	61.80	1216	70.95	2433
39.00	27247	53.05	1150	62.10	2899	71.95	141
40.10	2957	53.95	1947	63.05	13754	73.10	3923
41.00	1513	54.95	3415	63.90	660	74.00	38479
43.20	2400	56.05	9000	64.15	1242	75.00	59859
44.10	3486	57.00	21385	65.00	5983	77.00	390806
46.95	1679	58.05	2719	65.95	1961	78.00	25476
48.10	2920	58.80	136	67.00	926	78.95	26369
49.00	3640	59.80	525	67.30	1426	80.00	19397
50.00	88135	60.10	1246	69.00	412956	81.00	26849

Average of 2.661 to 2.672 min.: 3m62146.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
81.95	6864	93.00	41526	104.00	8575	114.00	56
83.05	11243	93.95	2399	104.95	8773	114.25	644
83.90	3120	95.05	155	107.00	108151	114.80	847
85.00	6202	96.00	1531	107.95	17621	116.00	7797
85.95	10600	97.05	5166	109.00	1456	117.00	79771
87.05	2745	98.00	31689	110.00	227627	117.95	7062
88.70	326	99.00	21281	110.95	30106	118.80	149
89.00	360	100.00	1626	111.70	930	119.10	781
90.00	87	100.95	12797	111.95	3386	119.95	2691
91.00	5838	101.90	256	112.95	1412	121.15	1452
92.05	7511	103.05	5427	113.70	140	121.95	8470

Average of 2.661 to 2.672 min.: 3m62146.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
123.00	10499	133.30	1500	140.10	1963	148.95	3963
123.80	929	133.95	1812	140.95	17435	150.00	1325
124.10	4450	134.20	1591	142.05	6606	150.70	471
124.95	4800	135.00	11001	142.80	1210	151.20	1185
127.00	397848	135.95	3811	143.05	4376	151.60	871
128.00	32945	136.20	1201	144.00	817	151.90	2754
128.95	149900	137.05	6945	144.95	2092	152.80	1297
129.90	12641	137.70	884	145.85	1769	153.00	4119
130.95	3972	138.15	2013	146.10	1848	154.00	5214
132.05	1465	139.05	1457	147.00	8503	155.00	10320
132.90	943	139.85	1159	147.95	20408	156.05	15916

Average of 2.661 to 2.672 min.: 3m62146.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
157.00	3751	164.20	1674	171.90	3357	180.90	5732
157.20	1120	164.95	7295	172.20	814	181.05	2416
157.85	3860	166.00	4535	172.80	2059	182.10	2103
158.70	699	166.20	1188	173.05	2684	183.15	1529
159.05	1928	166.90	34387	174.05	7567	184.00	1553
160.05	6482	168.00	11216	175.05	13777	184.80	3657
161.00	10188	168.20	2899	176.05	4514	185.05	10642
161.90	1995	168.95	2945	177.05	7865	186.00	103715
162.70	117	170.00	1821	178.00	228	187.00	31285
163.10	1352	170.20	361	178.95	25091	188.15	3151
163.80	386	170.85	2554	179.95	18364	188.70	271

Average of 2.661 to 2.672 min.: 3m62146.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
189.05	4937	198.00	777323	208.90	2823	217.00	41939
189.95	1862	199.00	51112	210.35	3842	217.95	3115
190.80	1646	200.00	3389	210.85	6030	218.20	2147
191.10	452	201.60	5155	211.15	1757	218.90	271

191.85	6892	203.05	6149	212.05	1280	219.15	708
192.90	2225	204.00	24035	212.65	293	221.00	43778
193.00	7203	205.10	46370	213.05	333	221.85	6290
194.05	1933	206.05	187387	213.90	464	222.85	2271
195.00	593	207.00	26522	214.80	756	223.05	9991
196.05	28749	207.90	1805	215.15	1784	224.05	98709
196.70	3174	208.10	3763	216.10	5690	225.10	24675

Average of 2.661 to 2.672 min.: 3m62146.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
226.05	3946	232.95	850	239.00	781	247.85	873
226.95	37840	233.30	661	239.30	280	248.50	479
228.05	7451	233.70	406	239.95	1106	249.05	3276
228.95	8579	233.95	2477	240.85	2722	250.00	536
229.85	521	234.90	2646	241.40	282	250.20	154
230.10	1474	235.85	1952	242.05	6326	250.50	285
231.05	3988	236.10	577	242.95	5781	250.80	530
231.40	684	236.95	2202	244.05	76656	252.25	787
231.95	396	237.20	690	245.15	9493	252.50	848
232.30	370	238.00	1187	246.00	14699	252.95	2034
232.60	138	238.80	1509	247.05	2898	255.00	388053

Average of 2.661 to 2.672 min.: 3m62146.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
256.00	56328	265.00	8188	272.20	1080	281.05	1208
257.10	4782	265.80	506	273.00	8568	281.90	154
258.05	16577	266.70	389	273.20	4767	282.05	634
259.10	3272	267.10	1001	274.10	37539	282.95	1602
259.70	166	267.90	186	275.05	177221	283.60	189
259.85	784	268.95	772	276.00	25870	283.85	280
260.75	389	269.80	25	277.00	12576	284.20	586
261.20	252	270.10	692	277.90	522	285.10	1564
262.00	328	270.65	286	278.10	1882	285.70	85
263.20	537	271.10	1125	278.85	337	285.90	342
263.90	813	271.80	560	280.40	133	287.10	256

Average of 2.661 to 2.672 min.: 3m62146.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
288.45	386	294.90	1374	304.85	234	313.30	411
289.10	493	296.05	40696	305.30	322	314.10	1301
290.10	847	297.00	8043	306.10	303	315.00	4514
290.80	340	298.10	260	307.90	481	315.95	1639
291.20	138	299.00	110	308.10	248	316.20	2001
291.70	240	300.95	1140	308.60	174	316.95	403
292.05	939	301.50	156	309.60	240	317.20	147
293.05	3882	302.10	1408	310.05	1105	319.10	117
293.70	367	303.00	5370	311.60	146	319.40	156
294.05	921	303.30	467	312.00	75	321.10	930
294.60	696	304.15	1548	312.95	719	321.30	485

Average of 2.661 to 2.672 min.: 3m62146.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
322.20	1229	331.80	95	341.95	151	353.05	2984
323.10	15684	332.05	1058	342.85	256	353.40	478
324.05	4063	333.10	974	344.30	166	353.95	2268
325.00	272	334.00	9081	344.95	592	354.20	2073
325.70	509	335.10	2983	345.85	1518	354.80	165
326.40	124	336.30	699	346.10	2086	355.15	1355
327.00	1183	338.70	202	346.95	900	356.20	504
328.00	1482	340.00	600	350.90	453	357.70	91
328.20	620	340.45	725	351.40	89	358.10	119
329.90	93	341.05	1717	352.05	4602	359.00	473
331.05	246	341.60	384	352.80	478	359.50	319

Average of 2.661 to 2.672 min.: 3m62146.D\data.ms

dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
360.05	273	370.50	163	383.20	644	396.00	78
362.00	333	371.05	1200	383.90	204	400.25	222
362.80	256	372.15	7834	384.10	350	400.60	124
363.00	137	373.15	1562	384.90	382	402.05	3323
363.40	398	374.00	276	387.80	136	402.70	146
364.10	256	375.90	78	389.35	415	403.10	3974
365.05	18811	376.80	151	389.80	515	403.90	618
365.70	473	377.00	80	390.20	704	404.10	636
365.95	2229	381.65	207	391.00	277	405.10	104
369.40	75	382.20	139	391.40	524	407.00	117
369.95	693	382.80	1837	392.20	552	408.30	128

Average of 2.661 to 2.672 min.: 3m62146.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
415.10	361	425.20	566	433.25	338	438.40	1266
417.40	94	425.90	178	433.95	1228	438.80	1310
418.15	276	427.10	110	434.65	868	439.00	1780
419.30	227	427.80	358	435.20	845	439.60	2518
421.05	5060	428.75	449	435.50	665	441.15	98712
421.80	370	429.65	343	436.00	801	442.10	577067
422.10	1822	430.10	179	436.30	636	443.10	112776
423.05	29197	430.50	146	436.70	644	443.80	684
423.90	3557	430.90	216	437.00	353	444.15	8423
424.10	3550	432.05	494	437.40	220	445.00	669
424.90	449	432.70	931	437.85	2657	445.50	121

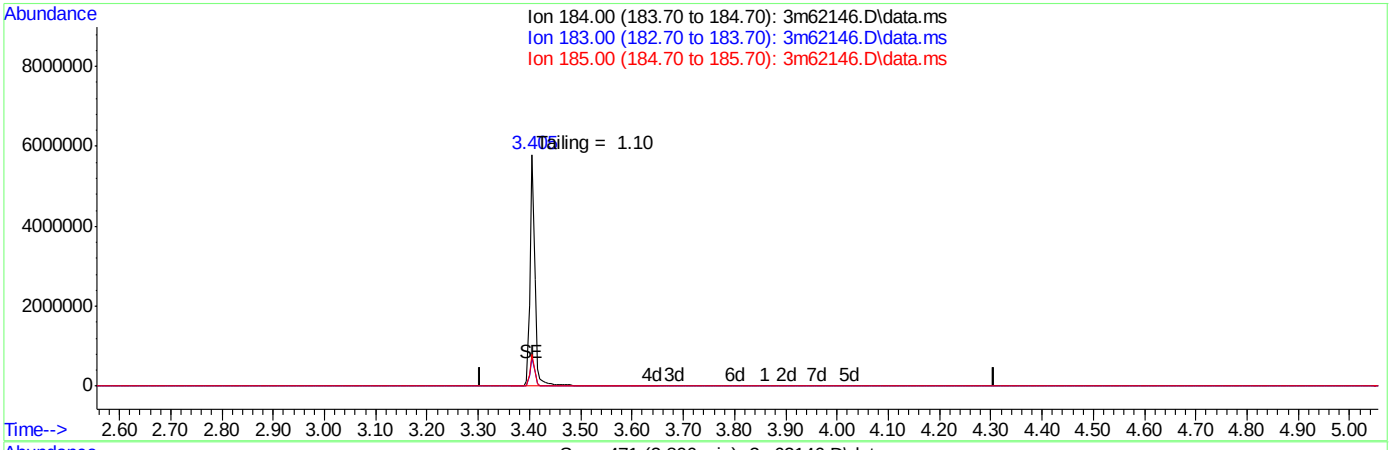
Average of 2.661 to 2.672 min.: 3m62146.D\data.ms
dftpp
Modified:subtracted

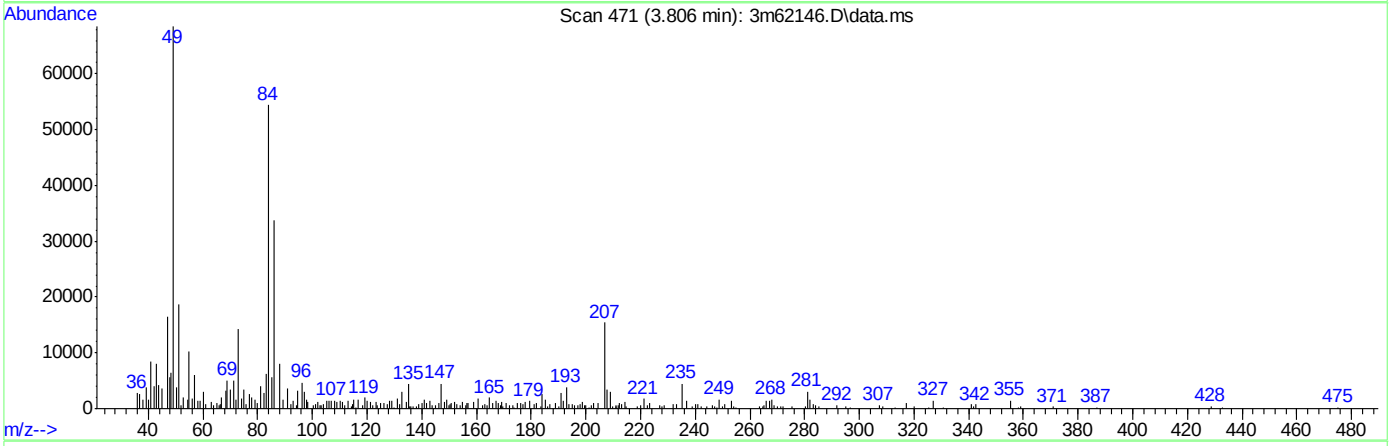
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
445.80	115						
475.10	172						
477.40	140						

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E3M2930\
Data File : 3m62146.D
Acq On : 10 Jun 2016 8:33 pm
Operator : juliusj
Sample : dftpp
Misc : op94389a,e3m2930
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 10 20:38:02 2016
Quant Method : C:\MSDCHEM\1\METHODS\DFTPP3M.M
Quant Title : DFTPP, RXI-5MS 30m x .25mm x .25um
QLast Update : Wed Dec 09 10:32:40 2015
Response via : Initial Calibration





TIC: 3m62146.D\data.ms

(2) Benzidine (t)

3.806min 0.00ppb d

response 0

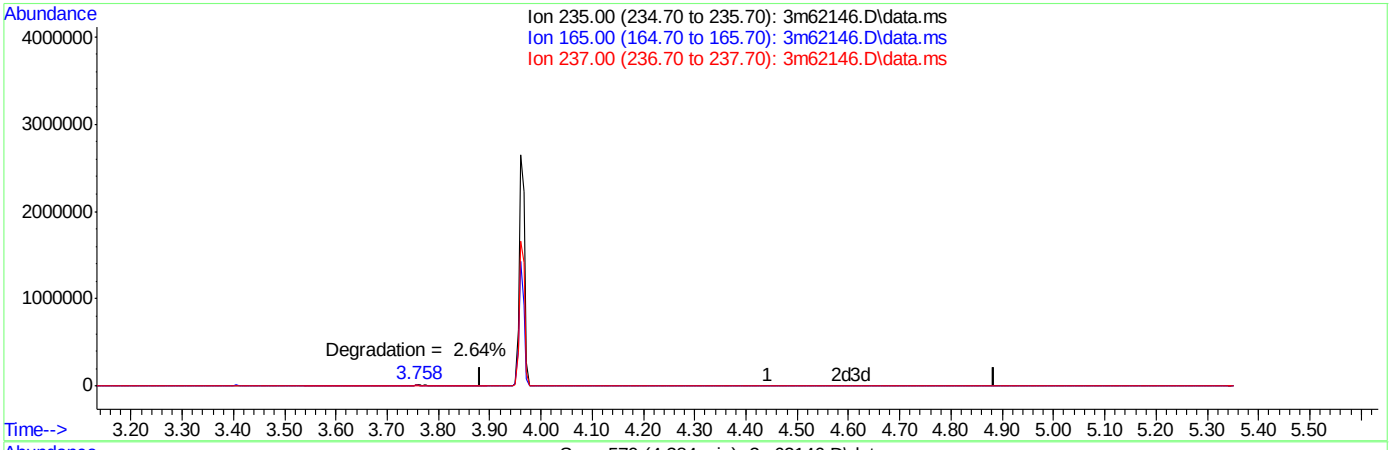
Ion	Exp%	Act%
184.00	100	0.00
183.00	11.50	0.00
185.00	14.40	0.00
0.00	0.00	0.00

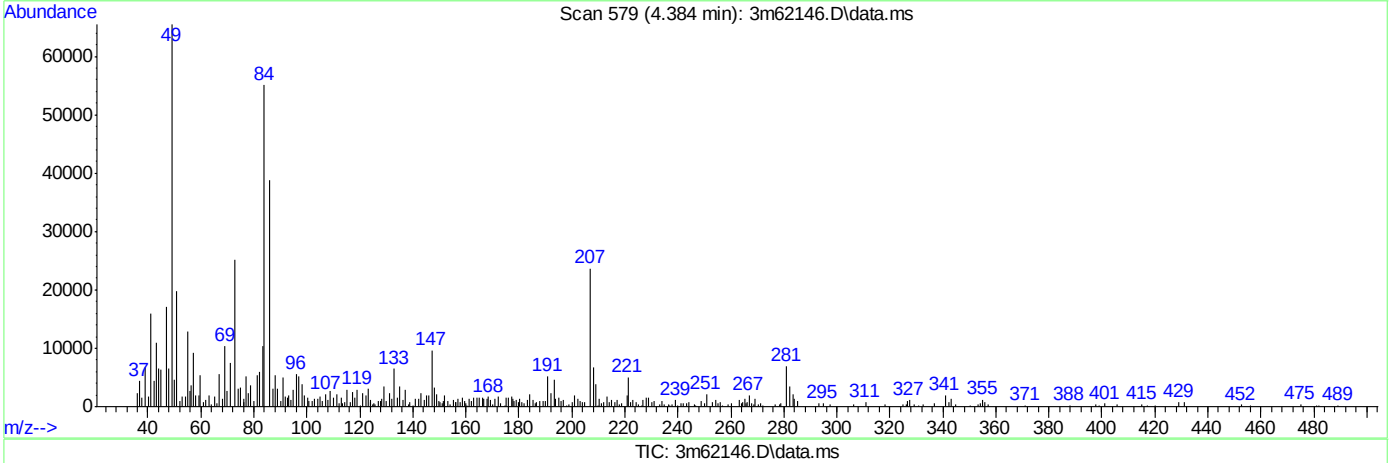
SGS ACCUTEST JC21347

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E3M2930\
Data File : 3m62146.D
Acq On : 10 Jun 2016 8:33 pm
Operator : juliusj
Sample : dftpp
Misc : op94389a,e3m2930
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 10 20:38:02 2016
Quant Method : C:\MSDCHEM\1\METHODS\DFTPP3M.M
Quant Title : DFTPP, RXI-5MS 30m x .25mm x .25um
QLast Update : Wed Dec 09 10:32:40 2015
Response via : Initial Calibration





TIC: 3m62146.D\data.ms

(3) PP-DDT (t)

4.384min 0.00ppb d

response 0

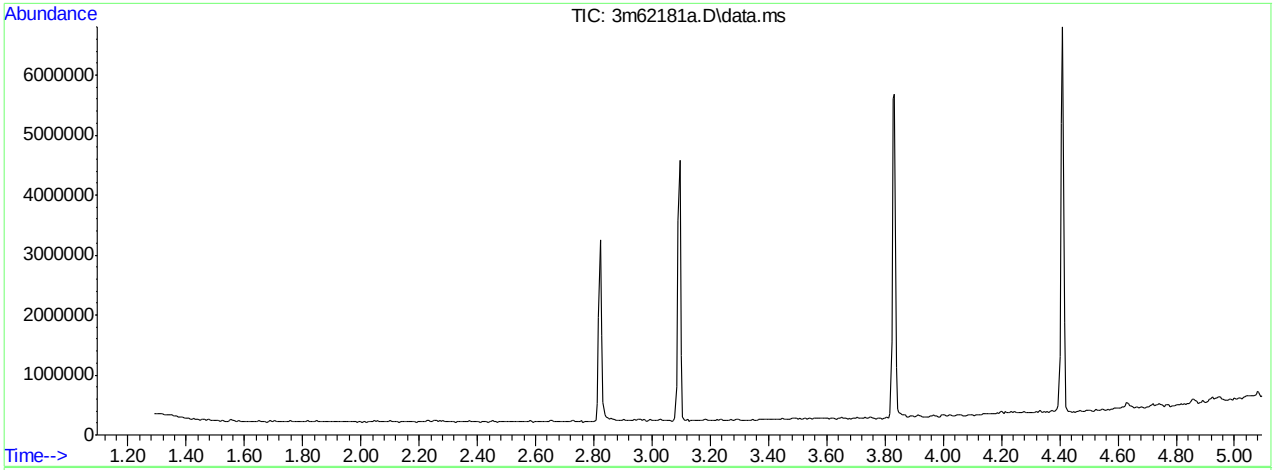
Ion	Exp%	Act%
235.00	100	0.00
165.00	0.00	0.00
237.00	0.00	0.00
0.00	0.00	0.00

SGS ACCUTEST JC21347

DFTPP

Data File : C:\msdchem\1\DATA\E3M2931\3m62181a.D Vial: 1
Acq On : 13 Jun 2016 7:51 pm Operator: juliusj
Sample : dftpp Inst : MS3M
Misc : op94419a,e3m2931 Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\MSDCHEM\1\METHODS\DFTPP3M.M (RTE Integrator)
Title : DFTPP, RXI-5MS 30m x .25mm x .25um



AutoFind: Scans 337, 338, 339; Background Corrected with Scan 331

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	44.0	134859	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	57.4	175800	PASS
70	69	0.00	2	1.1	1996	PASS
127	198	40	60	56.5	173124	PASS
197	198	0.00	1	0.2	513	PASS
198	198	100	100	100.0	306219	PASS
199	198	5	9	6.7	20593	PASS
275	198	10	30	23.7	72536	PASS
365	198	1	100	2.8	8599	PASS
441	443	0.10	100	86.4	24651	PASS
442	198	40	100	47.8	146504	PASS
443	442	17	23	19.5	28524	PASS

3m62181a.D DFTPP3M.M Tue Jun 14 08:05:11 2016 RPT1

Average of 3.089 to 3.100 min.: 3m62181a.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
35.90	852	46.10	508	57.10	8684	64.00	824
37.00	2227	47.00	1219	57.80	208	64.90	1251
38.05	2548	48.00	1545	58.10	664	65.10	1814
39.05	11119	49.00	4600	58.80	211	66.15	437
40.05	724	50.00	41518	59.95	233	66.90	185
41.00	1467	51.00	134859	60.30	93	67.20	719
41.90	100	52.05	7616	60.80	212	69.00	175800
42.90	1229	53.00	330	61.00	1561	70.05	1996
43.90	1867	53.80	169	61.70	220	71.00	424
44.95	202	55.05	432	62.05	2092	71.80	202
45.20	221	56.00	5191	63.05	6147	73.00	1516

Average of 3.089 to 3.100 min.: 3m62181a.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
74.05	18702	83.00	952	93.00	23751	102.05	498
75.00	26828	83.95	35	94.05	1414	103.00	2359
76.15	8876	85.05	1452	95.00	1005	103.70	223
77.05	162891	85.95	6040	96.00	768	104.05	4954
78.00	10358	87.05	1941	97.00	249	104.95	4601
78.30	504	88.00	226	97.30	225	105.80	119
79.00	13244	89.10	572	97.95	16693	107.00	57633
80.00	9279	89.90	118	99.00	12326	107.95	7578
81.00	12134	91.00	2213	100.00	788	110.00	88896
81.80	341	91.20	814	100.20	807	110.95	12259
82.05	2722	92.10	2942	101.00	6612	111.90	1464

Average of 3.089 to 3.100 min.: 3m62181a.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
112.20	241	120.20	186	130.70	230	138.95	842
112.95	436	120.90	635	131.10	1535	140.20	623
114.00	285	122.00	3958	131.90	703	141.00	9584
114.70	185	123.00	5533	132.80	58	141.95	3527
115.00	365	123.95	3316	133.05	292	142.60	183
116.00	3322	125.10	2239	133.90	2440	143.00	1883
116.20	607	125.30	327	135.05	5183	143.20	310
117.00	48109	126.95	173124	136.05	2589	143.90	429
118.00	3862	127.95	13630	136.70	292	144.20	506
119.00	812	128.95	72700	136.95	3498	145.05	493
119.95	1134	130.00	5979	138.15	926	146.00	1902

Average of 3.089 to 3.100 min.: 3m62181a.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
147.00	4322	153.95	2507	161.00	4366	170.50	399
147.95	11210	154.95	5220	161.95	1201	170.70	186
148.95	2272	156.10	6791	163.10	481	171.05	877
149.80	193	157.10	1733	163.40	214	172.10	2179
150.00	474	157.30	209	164.00	258	172.80	849
150.80	183	157.80	417	164.95	3377	173.00	1319
151.10	841	158.10	856	166.00	3717	174.00	4710
151.80	115	158.40	168	167.00	19067	175.05	6560
152.05	474	158.90	1314	167.95	8461	175.70	96
152.70	474	159.20	173	169.05	1704	176.10	1595
153.10	2222	160.00	2785	170.10	293	176.60	478

Average of 3.089 to 3.100 min.: 3m62181a.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
177.00	3729	185.10	6280	194.30	663	201.55	1984
178.10	887	186.00	48496	194.85	927	202.70	314
179.00	13324	187.00	12662	195.10	142	203.05	2766
180.00	9112	187.95	1118	195.90	6879	204.00	12955

181.00	4222	188.85	3642	196.20	938	205.05	23776
182.05	970	189.90	252	196.70	513	206.10	86797
182.50	180	190.05	461	198.00	306219	207.00	10542
183.00	272	191.00	1833	199.00	20593	208.05	3636
183.40	236	192.05	5387	200.05	1882	208.75	1079
184.00	1348	193.00	4533	200.90	404	210.10	1592
184.30	160	193.90	532	201.20	120	210.70	463

Average of 3.089 to 3.100 min.: 3m62181a.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
211.10	4282	220.00	442	229.60	253	236.50	177
211.90	119	221.05	11640	230.00	964	237.05	1137
212.20	211	221.70	1133	230.50	114	237.70	347
212.95	444	222.00	2357	231.05	1553	238.20	167
214.20	218	223.00	5876	231.70	109	239.10	991
215.00	961	224.00	47829	232.80	235	240.00	586
215.90	959	225.00	12580	233.10	275	240.40	334
217.00	23242	226.10	493	234.00	1678	240.70	153
217.90	3455	227.00	23209	234.20	377	241.00	1577
218.90	115	228.00	3156	235.10	1679	241.20	162
219.40	107	228.95	4463	235.95	1314	241.95	2650

Average of 3.089 to 3.100 min.: 3m62181a.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
243.05	3574	250.95	798	259.80	75	270.50	163
244.10	32684	251.80	201	260.05	431	270.70	169
244.95	3664	252.10	292	261.00	154	271.05	548
245.30	522	252.35	716	262.80	244	271.75	330
245.95	7736	252.90	593	264.00	807	272.50	432
247.05	1980	253.10	1196	265.05	5515	273.00	4843
248.00	402	255.00	175499	265.90	757	274.10	14254
248.95	1560	256.00	26628	267.05	226	275.00	72536
249.70	167	257.05	2792	268.90	104	276.15	8737
250.30	149	258.05	12048	269.70	331	277.05	7047
250.60	205	259.10	2333	270.10	109	278.05	1247

Average of 3.089 to 3.100 min.: 3m62181a.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
278.90	170	289.10	80	300.80	102	313.85	1005
279.30	123	289.80	127	301.30	357	314.00	243
279.90	139	290.15	257	302.10	411	314.20	490
281.10	375	291.25	194	303.05	2490	314.80	546
281.80	264	292.00	138	304.05	648	315.05	2070
283.05	934	292.20	114	306.70	139	316.15	1006
283.80	212	293.05	1723	307.80	277	317.00	84
284.10	714	294.10	180	308.90	84	321.00	710
285.05	1649	296.00	22783	312.10	184	321.20	318
286.00	273	297.05	3586	312.65	273	321.80	140
288.20	141	297.90	411	313.40	257	323.10	5653

Average of 3.089 to 3.100 min.: 3m62181a.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
323.90	1305	334.00	5212	345.80	585	362.10	126
324.90	89	335.00	698	346.05	688	363.05	172
325.60	141	335.70	130	346.90	375	363.70	278
326.60	98	335.95	229	350.65	229	363.90	119
327.00	1157	340.80	261	351.80	335	364.30	258
327.80	164	341.15	219	352.05	2068	364.95	8599
328.05	809	341.80	94	353.05	1578	365.80	447
330.10	82	342.20	180	354.05	1576	366.05	711
332.10	782	343.20	86	355.00	282	366.70	123
332.80	142	344.70	92	355.95	286	367.40	82
333.20	821	344.95	277	359.00	117	368.10	74

Average of 3.089 to 3.100 min.: 3m62181a.D\data.ms

dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
371.05	572	402.00	1027	427.10	121	434.20	362
372.20	2540	403.05	1533	428.85	395	434.55	664
372.80	156	403.90	94	429.25	359	435.30	291
373.10	413	404.05	537	429.85	281	435.55	895
382.90	439	405.60	183	430.70	384	436.10	853
383.15	523	419.65	336	431.40	96	436.50	730
383.70	125	420.95	1178	432.00	160	436.80	276
390.00	388	422.05	1894	432.35	384	437.25	1688
390.80	106	423.10	8360	432.85	333	437.70	1130
391.30	112	424.05	1882	433.60	395	438.10	711
400.70	99	425.20	528	433.90	86	438.45	1115

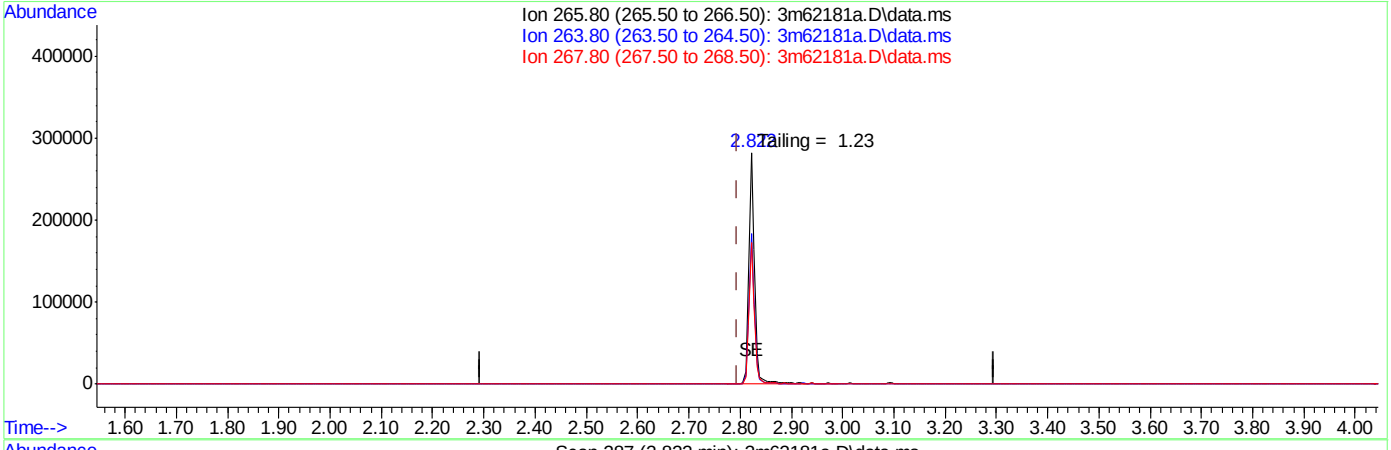
Average of 3.089 to 3.100 min.: 3m62181a.D\data.ms
dftpp
Modified:subtracted

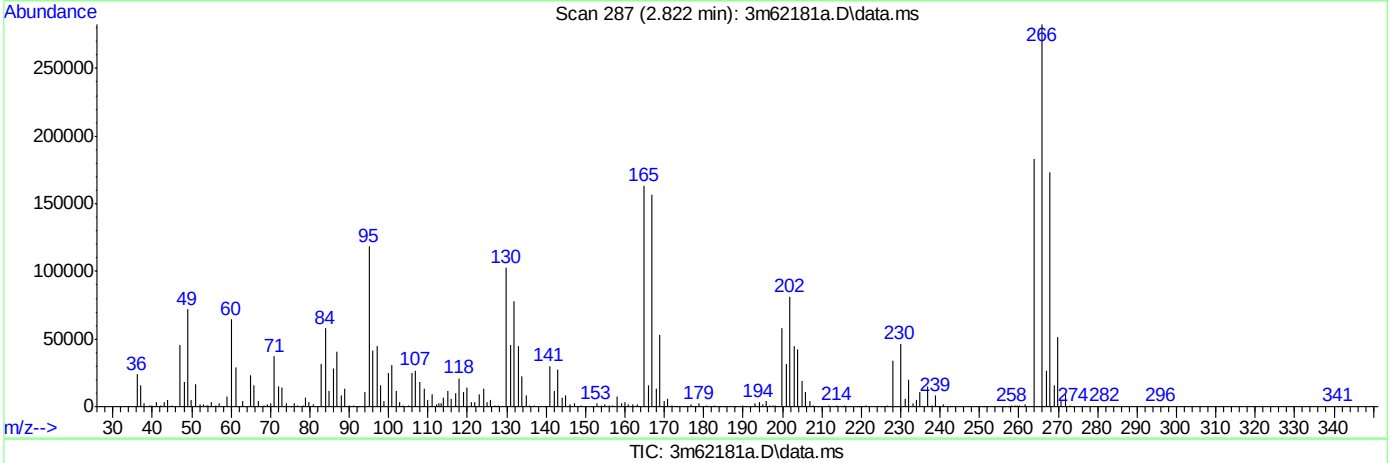
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
438.95	2064						
439.45	1281						
439.75	1006						
440.20	525						
441.10	24651						
442.10	146504						
443.10	28524						
444.05	2930						

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E3M2931\
Data File : 3m62181a.D
Acq On : 13 Jun 2016 7:51 pm
Operator : juliusj
Sample : dftpp
Misc : op94419a,e3m2931
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 13 19:55:51 2016
Quant Method : C:\MSDCHEM\1\METHODS\DFTPP3M.M
Quant Title : DFTPP, RXI-5MS 30m x .25mm x .25um
QLast Update : Wed Dec 09 10:32:40 2015
Response via : Initial Calibration





(1) Pentachlorophenol (t)

2.822min (+0.027) 57.73ppb

response 212925

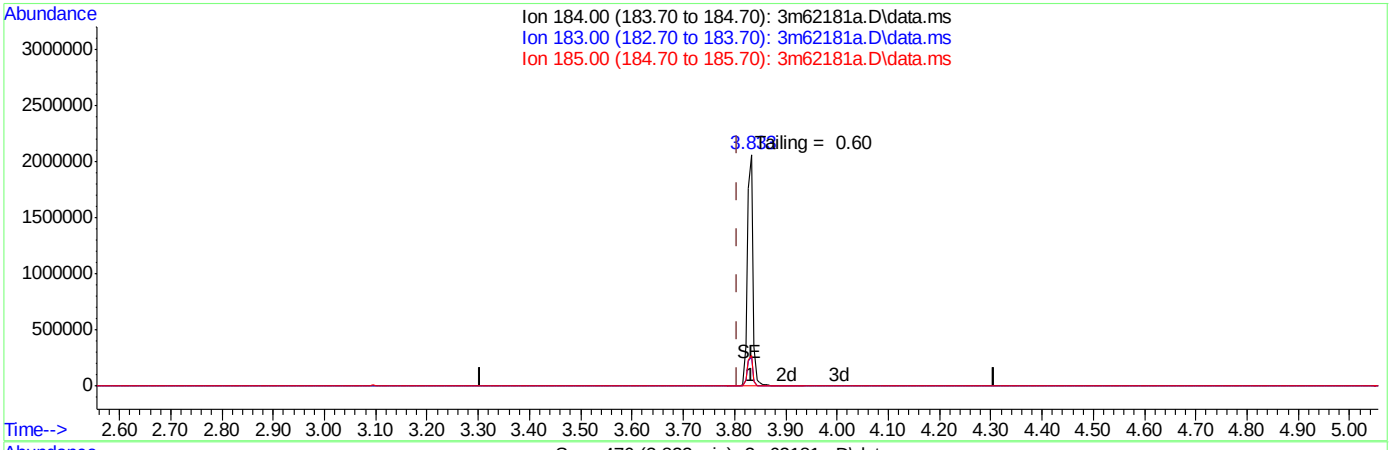
Ion	Exp%	Act%
265.80	100	100
263.80	62.80	64.87
267.80	64.10	61.23
0.00	0.00	0.00

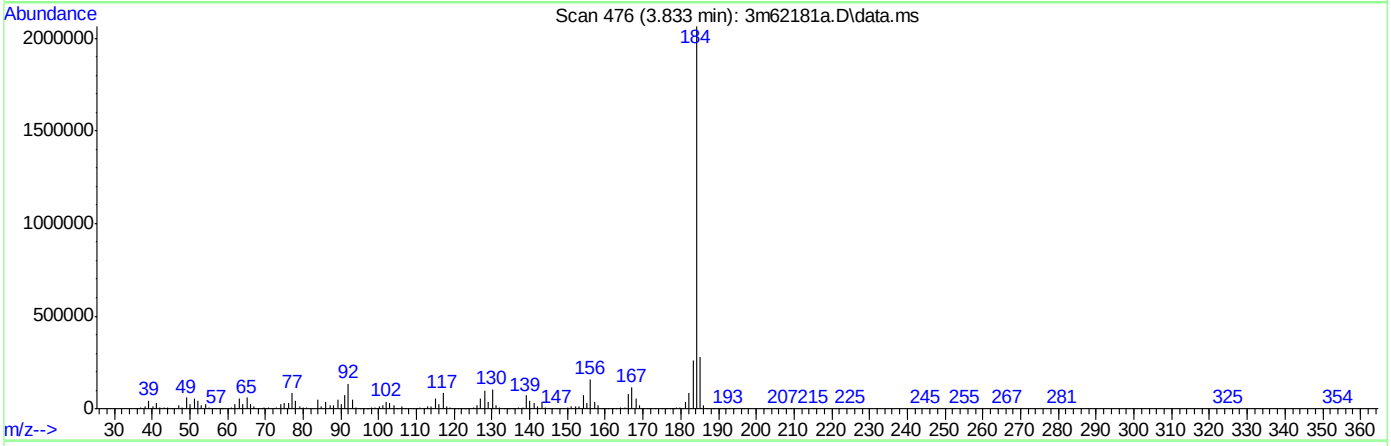
SGS ACCUTEST JC21347

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E3M2931\
Data File : 3m62181a.D
Acq On : 13 Jun 2016 7:51 pm
Operator : juliusj
Sample : dftpp
Misc : op94419a,e3m2931
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 13 19:55:51 2016
Quant Method : C:\MSDCHEM\1\METHODS\DFTPP3M.M
Quant Title : DFTPP, RXI-5MS 30m x .25mm x .25um
QLast Update : Wed Dec 09 10:32:40 2015
Response via : Initial Calibration





TIC: 3m62181a.D\data.ms

(2) Benzidine (t)

3.833min (+0.027) 83.17ppb

response 1513500

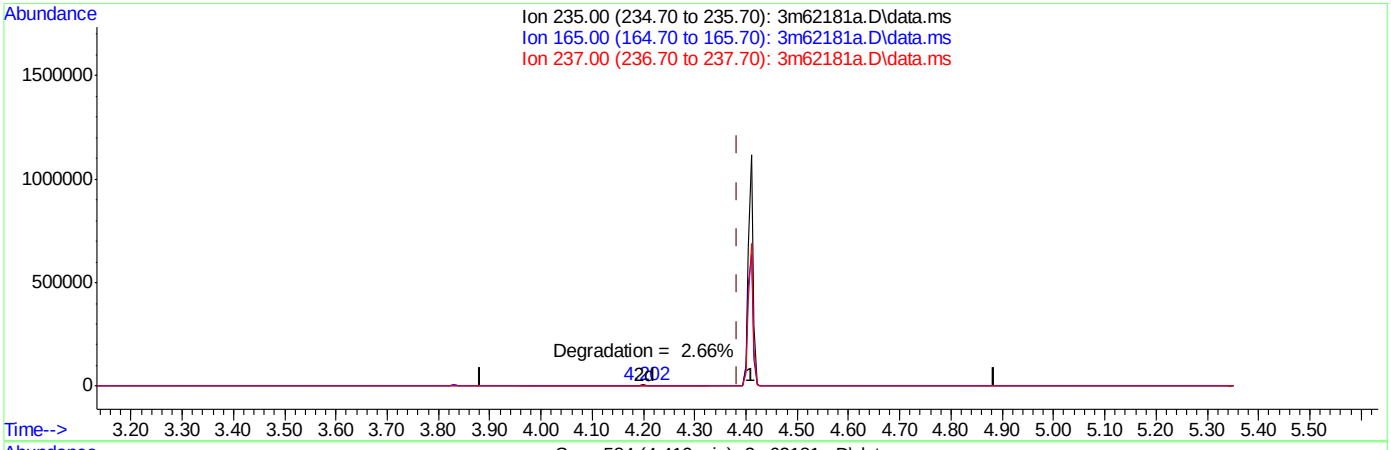
Ion	Exp%	Act%
184.00	100	100
183.00	11.50	12.73
185.00	14.40	13.42
0.00	0.00	0.00

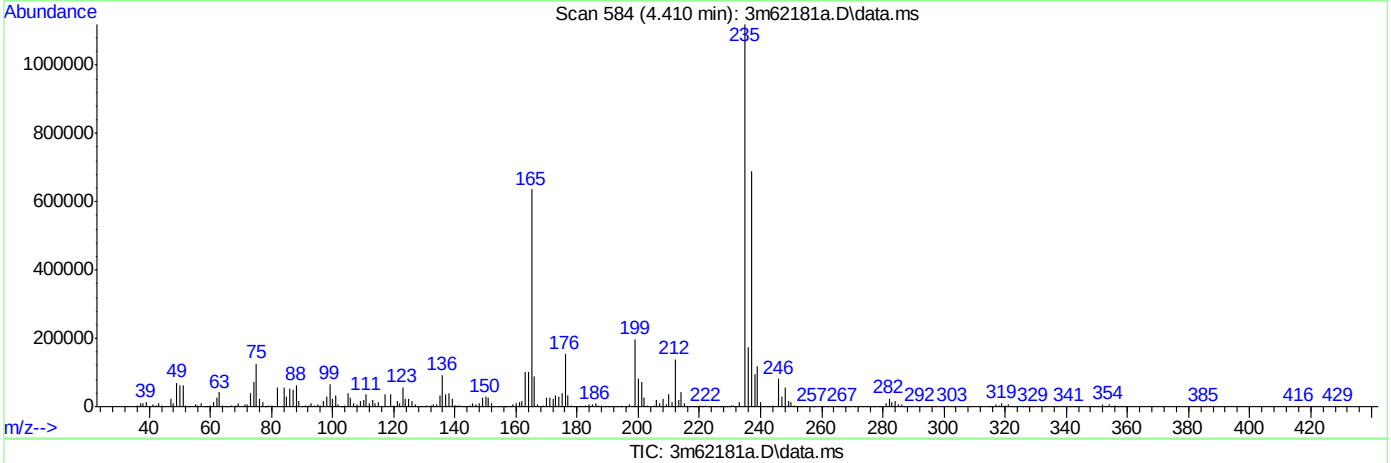
SGS ACCUTEST JC21347

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E3M2931\
Data File : 3m62181a.D
Acq On : 13 Jun 2016 7:51 pm
Operator : juliusj
Sample : dftpp
Misc : op94419a,e3m2931
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 13 19:55:51 2016
Quant Method : C:\MSDCHEM\1\METHODS\DFTPP3M.M
Quant Title : DFTPP, RXI-5MS 30m x .25mm x .25um
QLast Update : Wed Dec 09 10:32:40 2015
Response via : Initial Calibration





TIC: 3m62181a.D\data.ms

(3) PP-DDT (t)

4.410min (+0.027) 94.86ppb

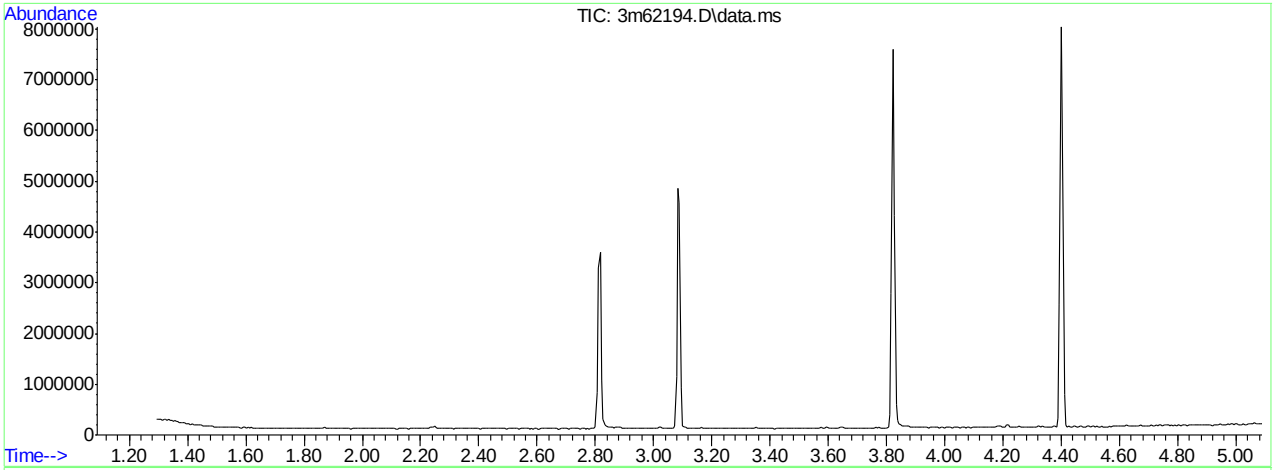
response 706601

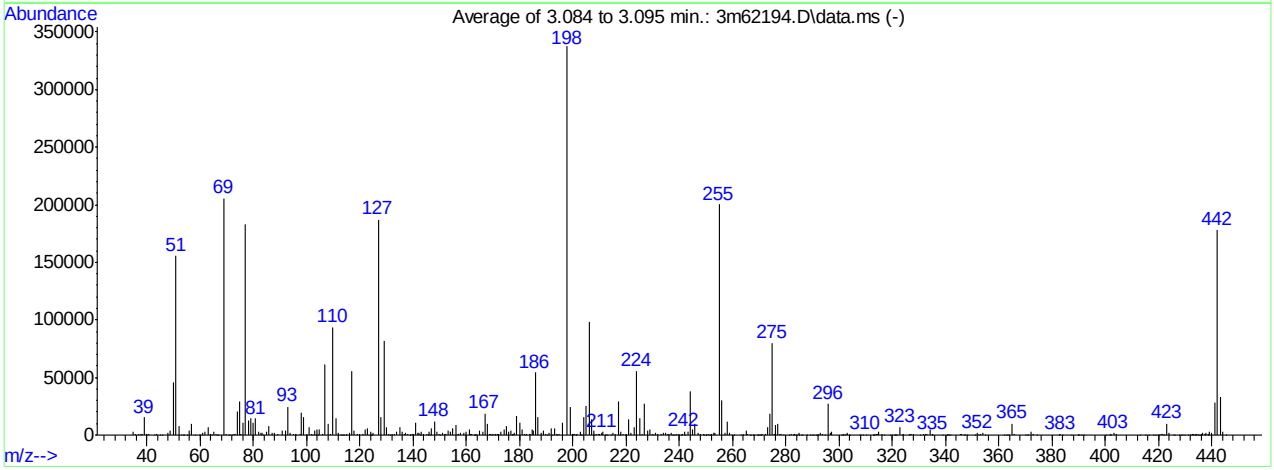
Ion	Exp%	Act%
235.00	100	100
165.00	0.00	61.53#
237.00	0.00	61.42#
0.00	0.00	0.00

DFTPP

Data File : C:\msdchem\1\DATA\E3M2932\3m62194.D Vial: 1
Acq On : 14 Jun 2016 9:32 am Operator: linseyk
Sample : dftpp Inst : MS3M
Misc : op94419a,e3m2932 Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\MSDCHEM\1\METHODS\DFTPP3M.M (RTE Integrator)
Title : DFTPP, RXI-5MS 30m x .25mm x .25um





AutoFind: Scans 336, 337, 338; Background Corrected with Scan 331

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	46.1	155646	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	60.9	205619	PASS
70	69	0.00	2	0.6	1271	PASS
127	198	40	60	55.5	187315	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	337421	PASS
199	198	5	9	7.2	24433	PASS
275	198	10	30	23.8	80176	PASS
365	198	1	100	2.9	9763	PASS
441	443	0.10	100	86.0	28643	PASS
442	198	40	100	52.7	177891	PASS
443	442	17	23	18.7	33296	PASS

3m62194.D DFTPP3M.M Tue Jun 14 12:34:51 2016 RPT1

Average of 3.084 to 3.095 min.: 3m62194.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
35.10	2568	44.95	159	55.90	4208	66.05	680
35.90	621	46.00	135	56.95	9839	66.50	100
36.95	1430	47.90	1649	58.05	358	67.00	349
37.90	1179	49.00	4067	59.95	27	68.95	205619
38.15	1135	50.05	46206	60.20	283	69.90	1271
39.05	15399	51.00	155646	61.00	2360	70.80	148
39.80	260	52.05	8037	61.90	2538	71.15	237
40.10	922	53.15	306	63.10	6957	72.05	224
40.80	607	53.70	74	64.00	631	73.00	676
42.95	177	53.90	123	64.20	432	73.20	1415
43.90	637	55.10	372	65.05	3267	74.05	20832

Average of 3.084 to 3.095 min.: 3m62194.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
75.00	28799	83.95	176	95.90	701	104.00	5360
75.20	911	85.00	2973	96.10	339	104.30	260
76.05	11223	86.00	7489	97.80	903	105.00	4516
77.10	183291	86.95	1545	98.05	19472	106.10	839
78.10	13019	87.95	1547	99.00	15623	107.00	61571
78.95	14720	89.05	645	100.10	801	108.00	9528
79.95	11118	90.90	3562	101.00	6870	108.90	797
80.95	14529	92.05	4293	101.90	732	110.00	93691
81.90	3155	93.00	24677	102.40	109	111.00	14743
82.90	1711	93.95	1864	103.00	3582	112.10	1512
83.20	1587	95.15	1004	103.70	141	112.90	289

Average of 3.084 to 3.095 min.: 3m62194.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
113.10	217	122.00	4689	129.95	6756	138.80	277
113.50	219	122.80	537	130.85	1026	139.10	319
114.10	182	123.10	6189	131.20	208	139.80	584
114.80	208	123.70	148	132.05	763	140.00	564
115.10	191	123.95	2805	133.00	539	141.00	10733
116.00	2272	124.20	267	134.00	3058	141.90	1612
117.00	55055	124.70	122	135.00	7142	142.10	1541
118.00	4079	125.00	2416	135.95	2917	142.70	114
119.05	739	127.00	187315	136.80	1289	143.00	2600
119.90	1153	128.00	15432	137.00	1760	144.10	1054
121.10	1007	129.00	82114	138.05	567	145.00	572

Average of 3.084 to 3.095 min.: 3m62194.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
145.60	106	153.05	3619	162.10	690	170.05	887
145.90	2527	153.95	3108	162.80	275	170.80	640
146.60	171	155.05	6028	163.10	202	171.00	470
146.95	5495	156.00	8859	163.90	812	171.80	826
148.00	12185	156.90	716	164.95	4390	172.00	1081
149.05	2602	157.20	1445	166.10	2683	173.05	3035
150.00	596	157.90	1560	167.00	18761	174.05	4888
150.20	361	159.15	2077	168.00	9691	175.05	7884
151.15	1671	160.00	3144	168.85	751	176.00	2727
151.85	777	161.05	5006	169.10	1442	176.95	3719
152.25	542	161.80	625	169.70	76	177.30	184

Average of 3.084 to 3.095 min.: 3m62194.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
177.70	621	185.10	4056	193.95	1395	202.80	214
178.15	1542	186.00	54343	194.20	338	203.05	2721
179.00	16324	187.00	15475	195.00	697	203.30	318
180.05	10776	188.05	1756	196.05	10963	204.05	15259

181.00	4481	188.95	4190	198.00	337421	205.05	25805
181.90	933	189.90	1143	199.00	24433	206.10	98427
182.30	387	190.30	156	200.00	1196	207.00	13860
182.80	630	190.90	1547	200.20	1165	207.80	397
183.90	535	192.00	5461	200.90	992	208.05	4299
184.10	814	192.50	385	201.30	208	208.95	1186
184.90	4576	193.00	6139	201.55	1038	209.70	642

Average of 3.084 to 3.095 min.: 3m62194.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
209.90	926	217.80	383	227.05	27691	236.05	812
210.20	804	218.05	3364	228.00	4133	237.00	2159
210.80	1981	219.05	1145	228.95	5329	237.20	229
211.10	2537	219.80	310	229.95	836	237.90	81
212.00	267	220.15	1142	230.40	102	238.20	390
212.60	234	221.00	13983	230.95	1698	238.95	1295
213.10	119	222.00	1989	232.05	773	239.85	889
214.10	101	223.05	6608	233.05	596	240.80	181
215.00	1552	224.05	55843	233.95	2185	241.10	1281
215.95	1001	225.05	14155	234.95	2082	241.90	3215
217.00	28897	226.10	741	235.90	530	242.10	204

Average of 3.084 to 3.095 min.: 3m62194.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
243.10	2654	251.30	112	260.70	371	269.50	81
244.10	38101	251.70	306	262.95	187	270.00	128
245.05	5254	252.20	817	263.85	431	270.20	278
246.00	9621	252.85	1814	264.00	146	270.75	322
247.10	2029	253.25	1711	265.05	4161	271.25	847
247.95	660	255.00	200421	265.80	1003	272.15	690
249.00	1406	256.00	30231	266.50	91	273.05	6380
249.20	112	257.00	2216	266.85	250	274.05	18681
250.00	227	258.05	12079	267.60	142	275.05	80176
250.20	452	258.90	2330	268.10	125	275.80	867
250.85	662	259.70	283	269.30	205	276.05	8972

Average of 3.084 to 3.095 min.: 3m62194.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
277.00	9584	284.80	96	292.20	137	303.00	1709
277.85	1034	285.10	1536	293.00	1831	303.20	1280
278.15	693	285.80	130	293.90	719	303.90	169
278.90	252	286.20	118	294.80	106	304.10	469
281.00	97	288.10	76	296.05	26961	307.70	78
282.05	531	289.10	157	296.90	1567	308.15	262
282.70	462	289.95	298	297.10	2583	308.90	185
283.00	394	290.30	180	300.85	454	310.10	439
283.20	664	291.10	126	301.30	88	312.75	251
283.80	446	291.60	123	302.00	555	313.00	184
284.30	244	292.00	189	302.30	75	313.30	177

Average of 3.084 to 3.095 min.: 3m62194.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
314.00	603	323.05	7026	334.10	4813	347.30	80
314.30	723	323.80	397	334.90	287	348.30	96
314.85	3081	324.20	1360	335.20	856	351.20	316
316.05	1240	326.30	454	338.80	127	352.00	1839
317.00	136	326.80	565	340.40	101	352.30	256
318.90	107	327.10	1255	341.00	1065	353.10	1345
320.00	198	328.00	928	341.20	299	354.15	2083
320.70	101	330.50	195	341.90	366	355.05	295
321.00	358	331.85	806	345.80	589	362.00	111
321.20	527	332.35	643	346.00	1106	362.70	119
321.60	155	333.10	1244	346.95	229	363.10	144

Average of 3.084 to 3.095 min.: 3m62194.D\data.ms

dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
363.90	148	383.85	436	403.15	1572	421.65	340
365.05	9763	387.30	90	404.10	728	422.30	466
366.00	1374	389.70	176	413.00	74	423.10	10145
369.80	105	389.90	146	414.90	146	424.05	1870
370.80	182	390.20	162	416.50	82	425.50	101
371.05	449	391.00	152	418.10	126	426.00	220
372.05	3237	392.10	342	418.90	348	427.80	78
373.05	1002	400.20	131	419.50	298	428.45	228
374.10	89	401.70	146	420.30	86	428.95	361
382.75	503	402.00	1500	421.00	746	429.80	101
383.20	631	402.20	109	421.20	931	430.90	408

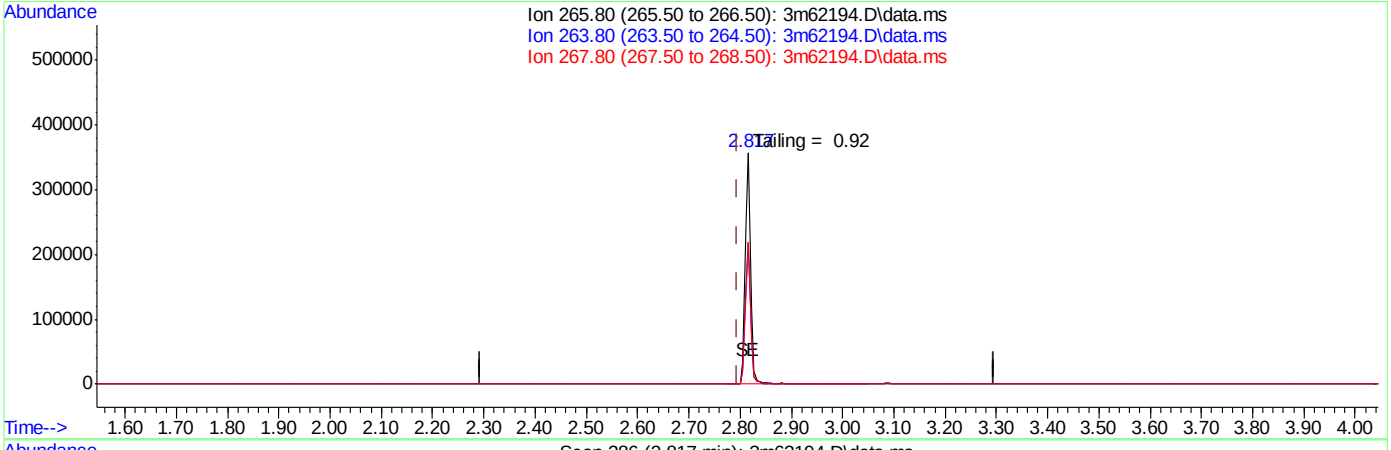
Average of 3.084 to 3.095 min.: 3m62194.D\data.ms
dftpp
Modified:subtracted

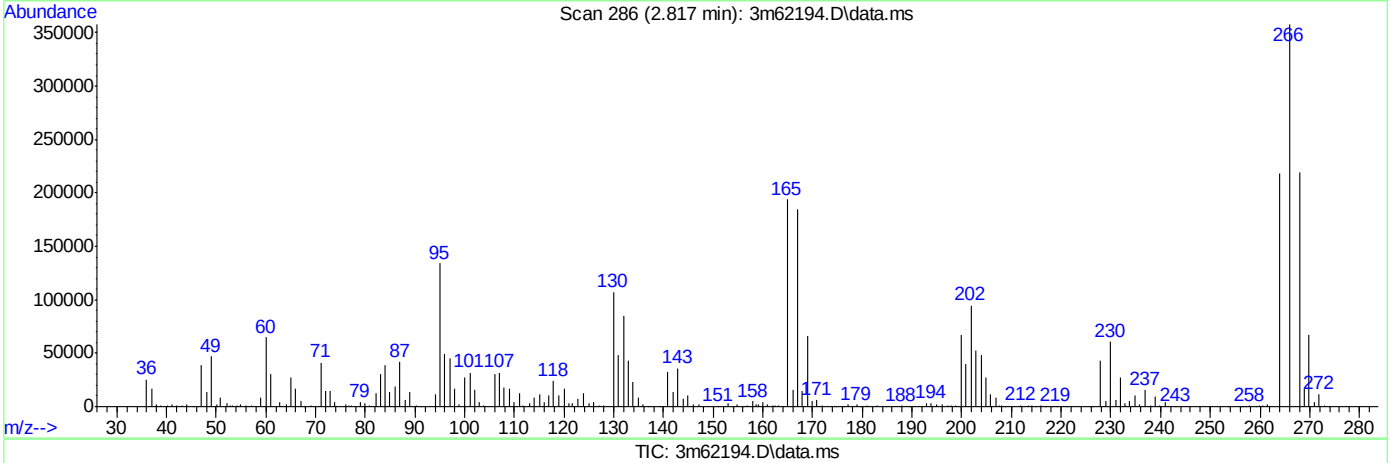
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
431.70	210	435.75	394	441.10	28643		
431.95	405	436.00	548	442.10	177891		
432.60	274	436.30	381	443.10	33296		
432.85	597	436.70	1683	444.00	3053		
433.25	659	437.20	1069	445.20	149		
433.50	398	437.40	208				
433.80	230	437.90	2104				
434.10	618	438.50	515				
434.55	806	438.70	664				
434.80	474	439.25	2800				
435.10	451	439.85	2311				

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E3M2932\
Data File : 3m62194.D
Acq On : 14 Jun 2016 9:32 am
Operator : linseyk
Sample : dftpp
Misc : op94419a,e3m2932
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 14 09:36:20 2016
Quant Method : C:\MSDCHEM\1\METHODS\DFTPP3M.M
Quant Title : DFTPP, RXI-5MS 30m x .25mm x .25um
QLast Update : Wed Dec 09 10:32:40 2015
Response via : Initial Calibration





TIC: 3m62194.D\data.ms

(1) Pentachlorophenol (t)

2.817min (+0.022) 69.29ppb

response 255563

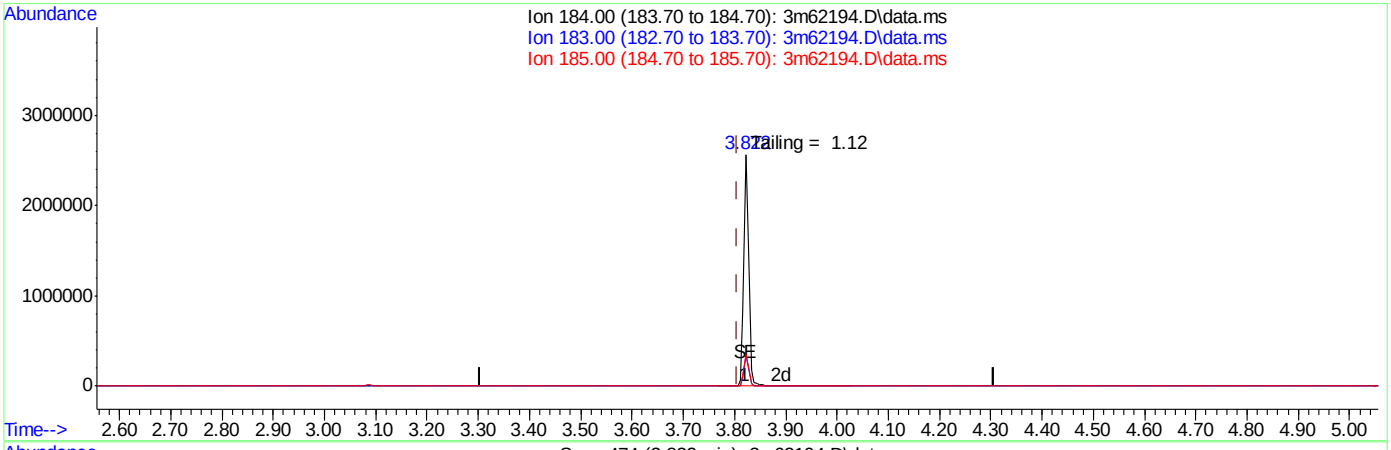
Ion	Exp%	Act%
265.80	100	100
263.80	62.80	61.05
267.80	64.10	61.23
0.00	0.00	0.00

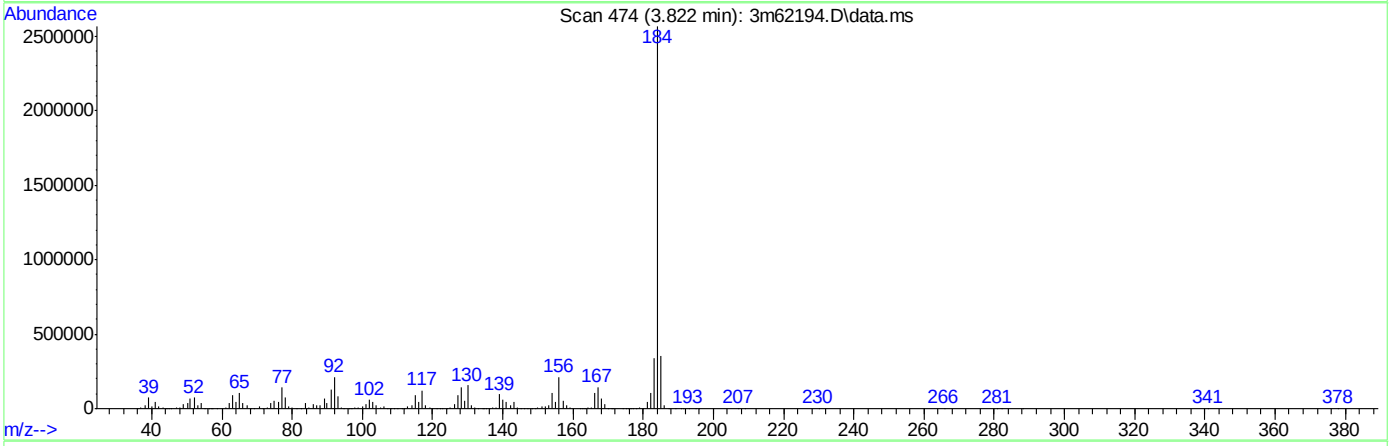
SGS ACCUTEST JC21347

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E3M2932\
Data File : 3m62194.D
Acq On : 14 Jun 2016 9:32 am
Operator : linseyk
Sample : dftpp
Misc : op94419a,e3m2932
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 14 09:36:20 2016
Quant Method : C:\MSDCHEM\1\METHODS\DFTPP3M.M
Quant Title : DFTPP, RXI-5MS 30m x .25mm x .25um
QLast Update : Wed Dec 09 10:32:40 2015
Response via : Initial Calibration





TIC: 3m62194.D\data.ms

(2) Benzidine (t)

3.822min (+0.016) 95.48ppb

response 1737505

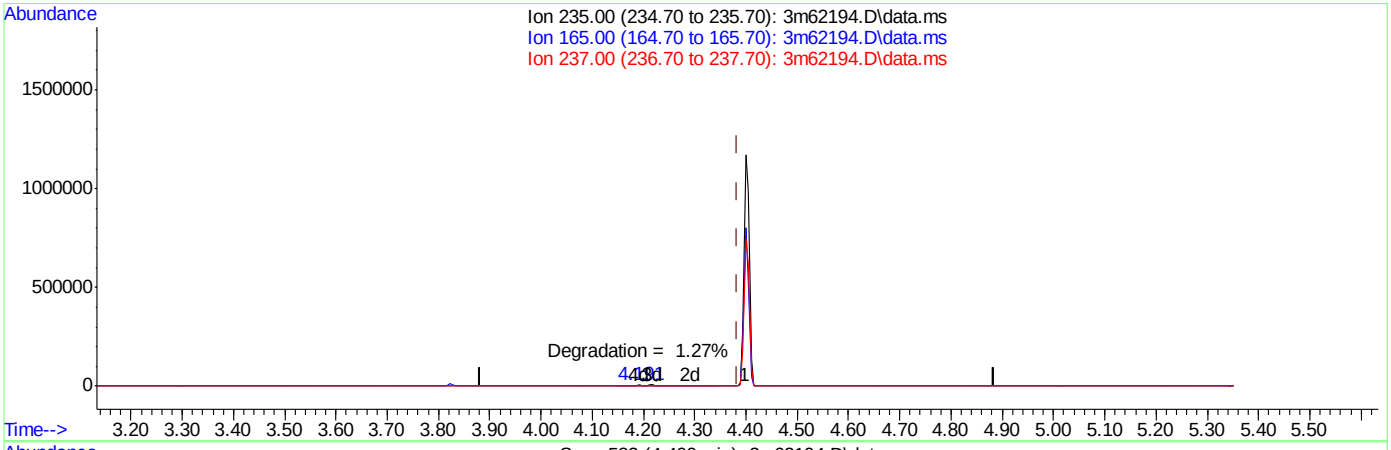
Ion	Exp%	Act%
184.00	100	100
183.00	11.50	13.22
185.00	14.40	13.81
0.00	0.00	0.00

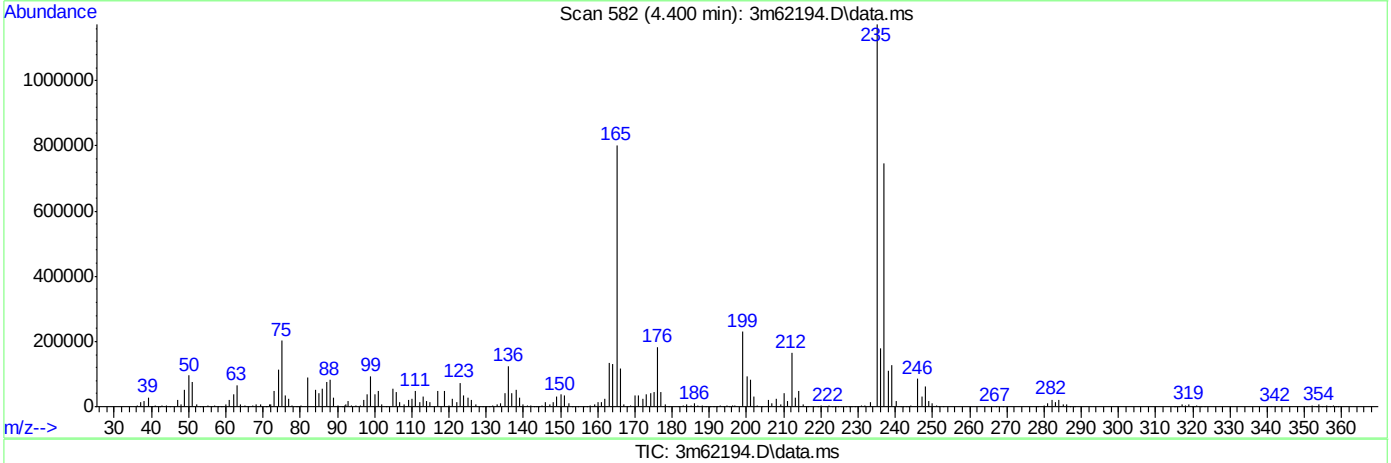
SGS ACCUTEST JC21347

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E3M2932\
Data File : 3m62194.D
Acq On : 14 Jun 2016 9:32 am
Operator : linseyk
Sample : dftpp
Misc : op94419a,e3m2932
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 14 09:36:20 2016
Quant Method : C:\MSDCHEM\1\METHODS\DFTPP3M.M
Quant Title : DFTPP, RXI-5MS 30m x .25mm x .25um
QLast Update : Wed Dec 09 10:32:40 2015
Response via : Initial Calibration





TIC: 3m62194.D\data.ms

(3) PP-DDT (t)

4.400min (+0.016) 111.71ppb

response 832084

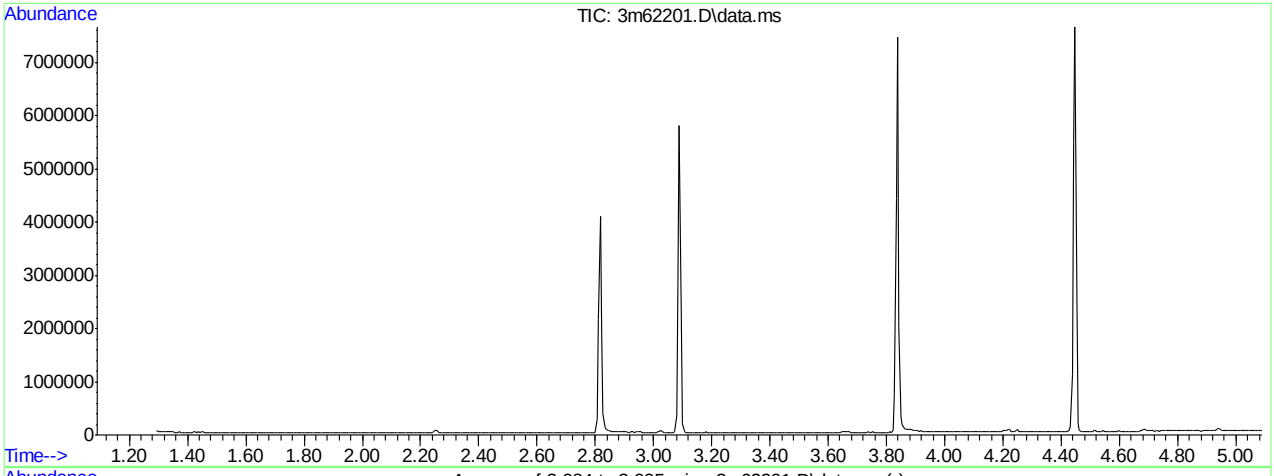
Ion	Exp%	Act%
235.00	100	100
165.00	0.00	63.69#
237.00	0.00	63.56#
0.00	0.00	0.00

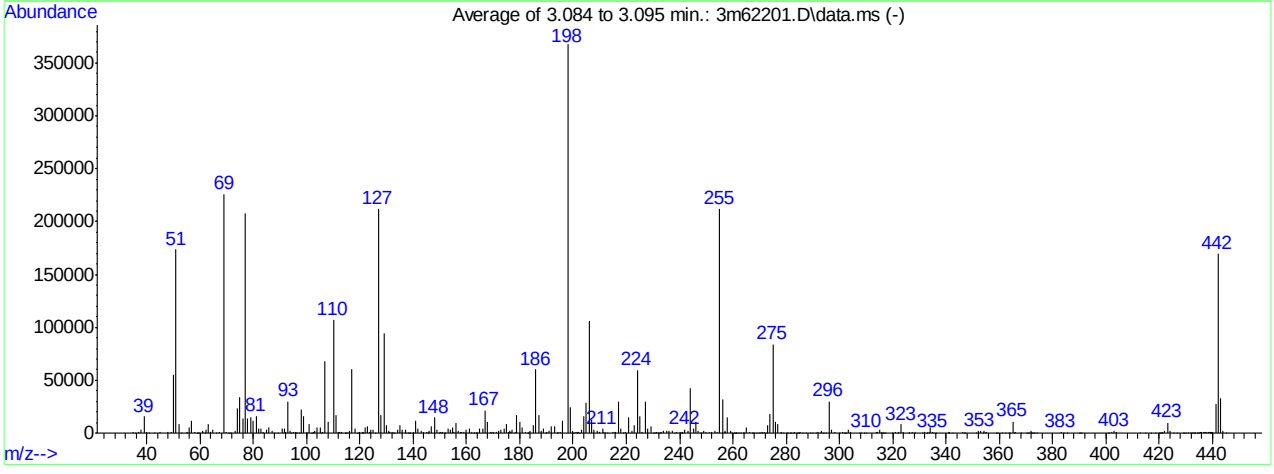
SGS ACCUTEST JC21347

DFTPP

Data File : C:\msdchem\1\DATA\E3M2934\3m62201.D Vial: 1
Acq On : 14 Jun 2016 12:30 pm Operator: linseyk
Sample : dftpp Inst : MS3M
Misc : op94419a,e3m2934 Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\MSDCHEM\1\METHODS\DFTPP3M.M (RTE Integrator)
Title : DFTPP, RXI-5MS 30m x .25mm x .25um





AutoFind: Scans 336, 337, 338; Background Corrected with Scan 331

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	47.2	173508	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	61.5	226175	PASS
70	69	0.00	2	0.3	650	PASS
127	198	40	60	57.6	211709	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	367509	PASS
199	198	5	9	6.6	24122	PASS
275	198	10	30	22.9	84125	PASS
365	198	1	100	3.0	11075	PASS
441	443	0.10	100	82.7	27469	PASS
442	198	40	100	46.0	169176	PASS
443	442	17	23	19.6	33201	PASS

3m62201.D DFTPP3M.M Tue Jun 14 16:00:40 2016 RPT1

Average of 3.084 to 3.095 min.: 3m62201.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
35.10	933	50.05	55091	59.70	146	69.90	650
35.90	387	51.00	173508	60.80	768	70.70	179
36.95	1103	52.05	8717	60.95	2019	71.05	199
38.00	3259	53.00	481	61.80	152	71.70	102
39.05	15498	55.00	500	62.10	2849	73.15	2607
40.15	1018	55.20	648	63.00	8193	74.00	23640
40.95	558	56.00	4869	63.90	1403	75.00	34458
42.90	465	56.95	11525	64.95	2970	76.10	13739
45.00	797	57.95	953	66.15	290	77.05	207613
47.95	596	58.80	333	67.10	761	78.00	14325
49.00	1494	59.10	150	69.00	226175	79.00	15274

Average of 3.084 to 3.095 min.: 3m62201.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
80.00	11854	91.90	3851	99.00	15757	107.00	67928
81.05	16075	92.10	779	100.05	1287	107.95	10312
82.10	3774	93.00	29899	101.00	8848	110.00	106645
83.05	3889	93.90	1656	101.90	510	111.00	17367
83.85	1616	94.10	426	102.10	147	111.90	1108
84.90	2998	94.95	844	102.80	823	112.10	1232
85.95	5013	95.80	250	103.10	1870	112.80	270
87.05	2306	96.00	1001	103.95	5774	113.00	792
88.00	287	96.20	356	105.00	4835	114.20	124
89.00	519	97.00	315	105.60	203	114.80	140
91.00	3816	98.00	22063	106.20	838	115.10	156

Average of 3.084 to 3.095 min.: 3m62201.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
115.95	2005	123.80	727	132.60	129	141.00	12084
117.00	60677	124.05	3559	132.95	497	141.95	3824
118.05	4007	125.05	3467	134.00	3470	142.90	2509
118.95	525	125.70	553	134.95	7955	144.00	670
119.50	192	127.00	211709	136.05	2914	145.05	877
119.95	1052	127.95	17492	136.95	3454	145.70	320
120.60	74	129.00	94104	137.20	461	146.05	2363
121.00	650	130.00	7831	137.90	546	147.00	6126
121.20	212	130.80	1639	138.20	103	147.95	14625
121.95	5100	131.20	990	138.80	554	149.00	2891
123.00	6271	132.10	1028	139.95	1476	149.80	161

Average of 3.084 to 3.095 min.: 3m62201.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
150.05	940	157.05	1889	163.80	523	171.90	2289
150.50	270	157.75	741	164.15	300	173.00	2867
150.80	675	158.15	1257	164.95	4243	174.00	4704
151.20	1249	158.95	1503	166.10	4207	175.10	8928
151.70	515	160.05	3712	167.00	21295	175.90	797
151.90	207	160.90	1322	167.95	10271	176.15	2223
153.00	3886	161.10	4086	168.90	1201	176.80	1359
154.00	2884	162.00	1194	169.20	266	177.00	3559
155.00	4882	162.60	162	169.80	447	178.15	1471
155.20	1021	163.00	149	170.05	615	178.95	16768
156.05	9748	163.50	99	171.00	1141	180.00	10343

Average of 3.084 to 3.095 min.: 3m62201.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
181.05	5468	189.90	288	199.70	365	206.05	106139
182.00	923	190.10	774	200.00	1805	207.05	12390
182.80	210	191.05	2307	200.20	415	207.95	3445
183.10	292	191.90	6248	200.95	678	209.00	1729

183.50	292	193.00	6019	201.40	1572	209.80	850
183.95	1749	193.90	402	201.60	490	210.05	1071
185.05	7289	194.15	1279	201.85	1224	211.10	3840
186.05	60069	195.10	787	202.20	258	211.80	762
187.00	17260	196.05	12062	203.00	3204	212.00	202
188.05	1955	198.00	367509	204.00	15986	213.05	449
188.95	4091	198.95	24122	205.05	28744	215.00	1105

Average of 3.084 to 3.095 min.: 3m62201.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
215.80	637	226.05	1615	233.15	866	241.95	3552
216.00	971	227.00	30008	234.05	1718	243.05	1837
217.00	29901	228.10	4095	235.00	2407	244.10	41987
218.05	4081	229.05	6762	236.00	2034	245.10	4807
218.90	563	229.90	209	237.05	2192	246.00	10175
219.75	709	230.60	240	237.90	232	247.05	2104
221.00	14841	230.90	524	239.10	1144	247.80	161
222.10	1794	231.20	1279	240.00	825	248.00	427
223.05	7031	231.95	337	240.50	140	249.05	2023
224.05	59661	232.40	96	240.95	1372	250.05	627
225.00	15644	232.80	95	241.20	451	251.00	806

Average of 3.084 to 3.095 min.: 3m62201.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
252.05	1011	260.80	87	268.00	100	276.00	11084
253.05	2102	261.10	141	268.90	88	277.00	8512
253.90	1384	261.30	225	269.60	76	277.90	404
255.00	211995	261.90	89	270.00	211	278.05	1352
256.05	32304	263.10	73	270.70	263	279.05	301
256.90	1766	263.95	276	271.10	637	280.10	75
257.10	636	264.20	180	271.85	597	280.65	184
258.00	14507	265.05	5542	272.40	231	281.40	162
259.05	2152	266.10	1240	273.05	7462	282.00	141
259.70	82	267.20	84	274.05	17539	282.80	380
260.25	462	267.70	88	275.05	84125	283.05	785

Average of 3.084 to 3.095 min.: 3m62201.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
284.05	487	293.05	1755	302.50	136	316.00	859
284.30	236	293.70	237	303.10	2796	316.20	537
284.90	508	294.20	336	304.10	1304	316.80	197
285.15	1224	294.70	356	307.70	85	317.05	347
286.10	148	296.00	29896	308.10	181	319.85	212
287.20	173	297.00	3431	309.00	371	321.00	951
289.10	415	298.15	658	310.10	553	321.90	242
290.00	126	299.90	152	314.00	1072	322.20	832
291.00	317	301.05	607	314.30	831	323.10	8311
291.95	626	301.50	192	315.10	2744	324.00	1304
292.60	97	301.95	380	315.70	129	325.90	132

Average of 3.084 to 3.095 min.: 3m62201.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
326.20	186	335.10	353	352.95	2042	365.00	11075
327.10	1356	336.00	98	353.70	145	365.70	98
328.00	570	340.70	120	354.15	2421	365.95	1015
328.15	399	341.00	259	354.70	106	368.10	202
331.20	123	341.25	739	355.05	615	370.20	280
332.05	710	342.25	441	358.80	128	370.70	115
332.60	108	346.10	1547	359.10	75	371.20	243
333.00	892	346.70	107	360.80	84	371.70	372
333.70	396	347.10	212	362.40	370	372.05	2622
334.10	5130	351.20	180	363.25	290	372.40	210
334.90	748	352.05	1914	364.00	536	372.90	468

Average of 3.084 to 3.095 min.: 3m62201.D\data.ms

dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
373.10	431	403.15	1781	422.05	1648	432.40	120
373.80	125	404.05	696	423.05	9620	432.80	513
383.10	813	412.80	106	424.05	2397	433.10	199
384.10	320	414.90	168	425.40	135	433.50	200
385.20	77	416.90	74	426.50	79	433.95	499
389.80	195	418.45	224	428.90	87	434.50	338
390.25	353	419.80	302	429.20	226	435.00	389
390.90	193	420.20	144	429.75	553	435.25	614
400.70	105	420.80	274	430.70	519	435.95	1130
401.10	220	421.10	990	431.50	360	436.60	1001
402.05	1242	421.30	301	431.95	566	437.05	863

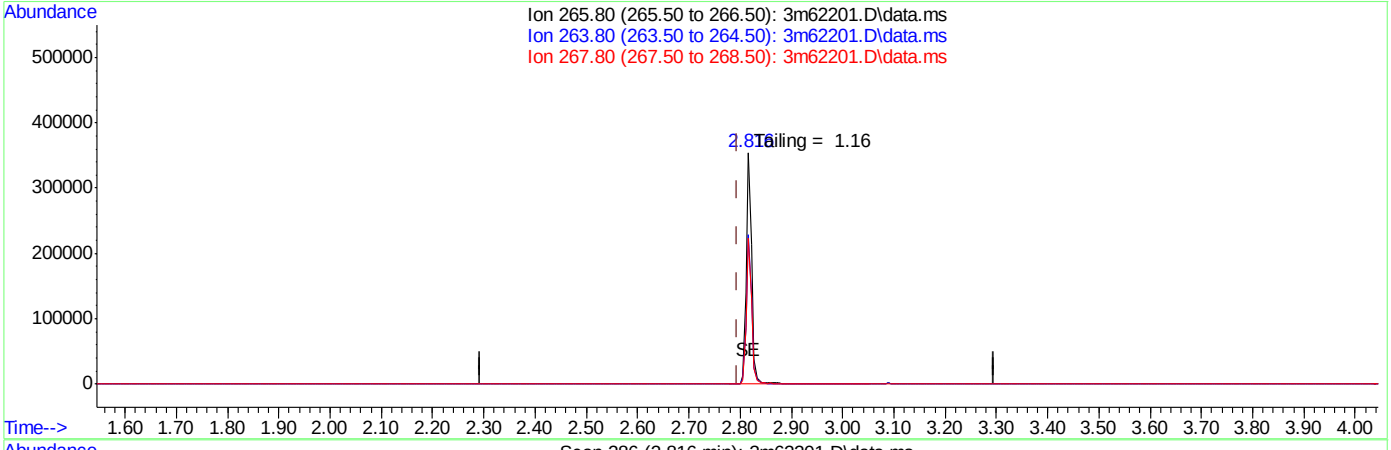
Average of 3.084 to 3.095 min.: 3m62201.D\data.ms
dftpp
Modified:subtracted

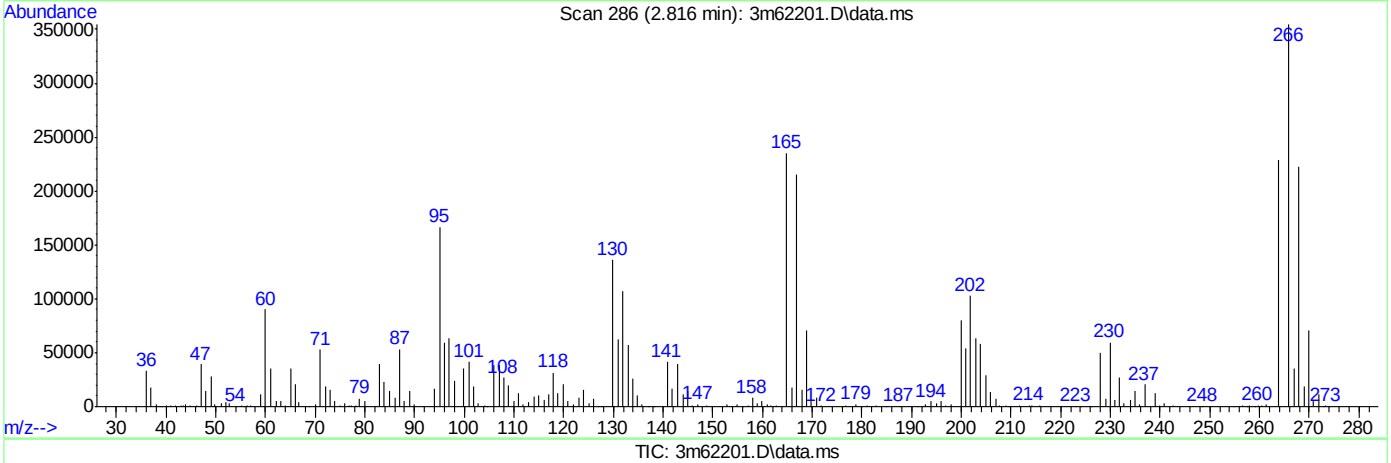
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
437.30	729	443.10	33201				
437.65	1002	444.00	2629				
438.20	879	444.90	228				
438.60	1061						
439.00	208						
439.30	782						
439.50	788						
439.80	299						
440.00	1254						
441.10	27469						
442.10	169176						

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E3M2934\
Data File : 3m62201.D
Acq On : 14 Jun 2016 12:30 pm
Operator : linseyk
Sample : dftpp
Misc : op94419a,e3m2934
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 14 12:35:05 2016
Quant Method : C:\MSDCHEM\1\METHODS\DFTPP3M.M
Quant Title : DFTPP, RXI-5MS 30m x .25mm x .25um
QLast Update : Wed Dec 09 10:32:40 2015
Response via : Initial Calibration





TIC: 3m62201.D\data.ms

(1) Pentachlorophenol (t)

2.816min (+0.021) 68.85ppb

response 253927

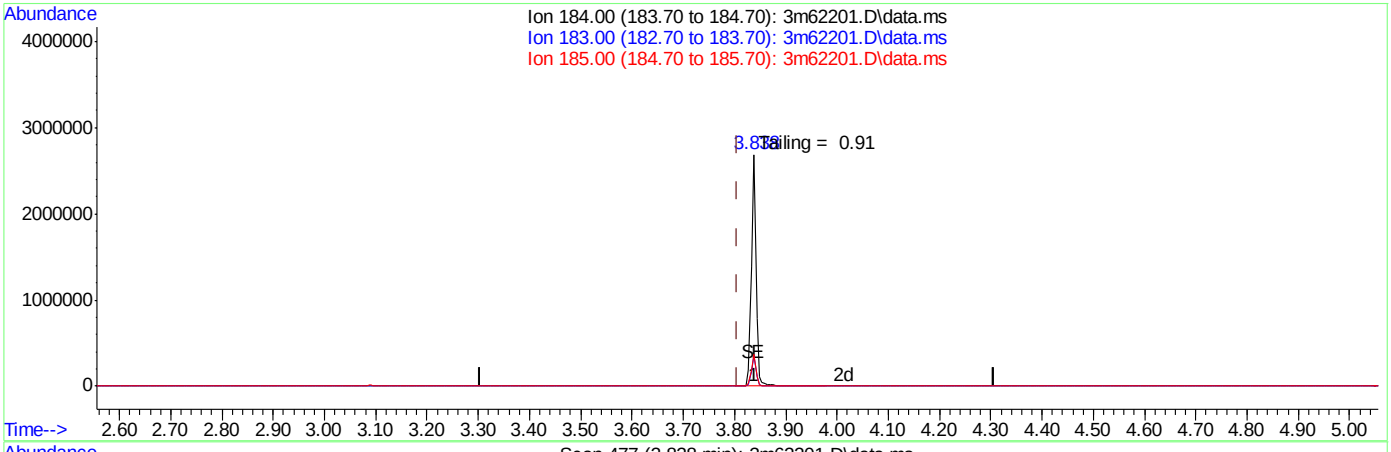
Ion	Exp%	Act%
265.80	100	100
263.80	62.80	64.64
267.80	64.10	62.86
0.00	0.00	0.00

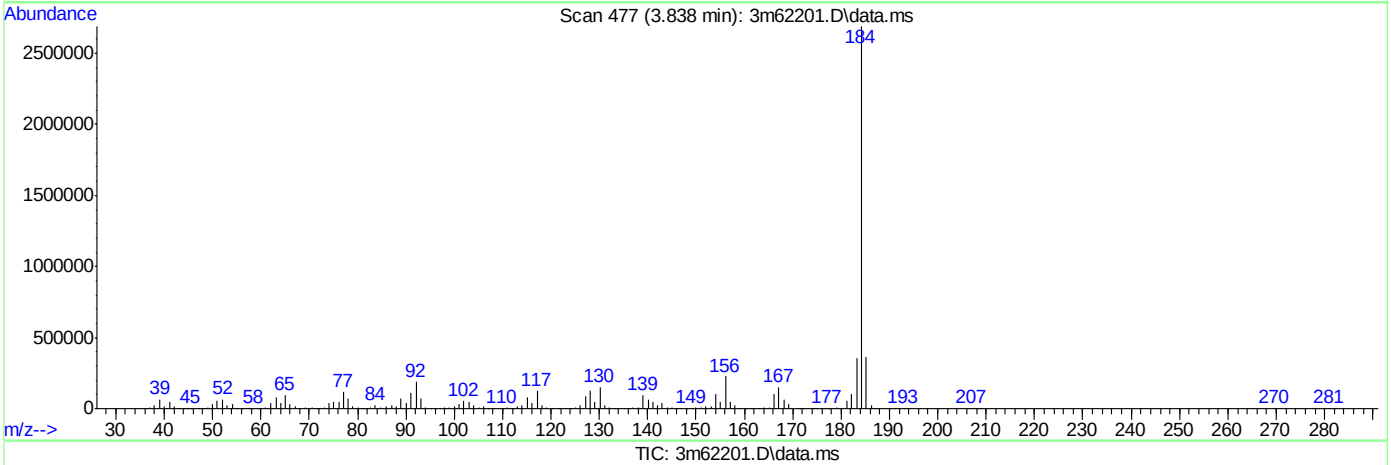
SGS ACCUTEST JC21347

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E3M2934\
Data File : 3m62201.D
Acq On : 14 Jun 2016 12:30 pm
Operator : linseyk
Sample : dftpp
Misc : op94419a,e3m2934
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 14 12:35:05 2016
Quant Method : C:\MSDCHEM\1\METHODS\DFTPP3M.M
Quant Title : DFTPP, RXI-5MS 30m x .25mm x .25um
QLast Update : Wed Dec 09 10:32:40 2015
Response via : Initial Calibration





TIC: 3m62201.D\data.ms

(2) Benzidine (t)

3.838min (+0.032) 94.46ppb

response 1718948

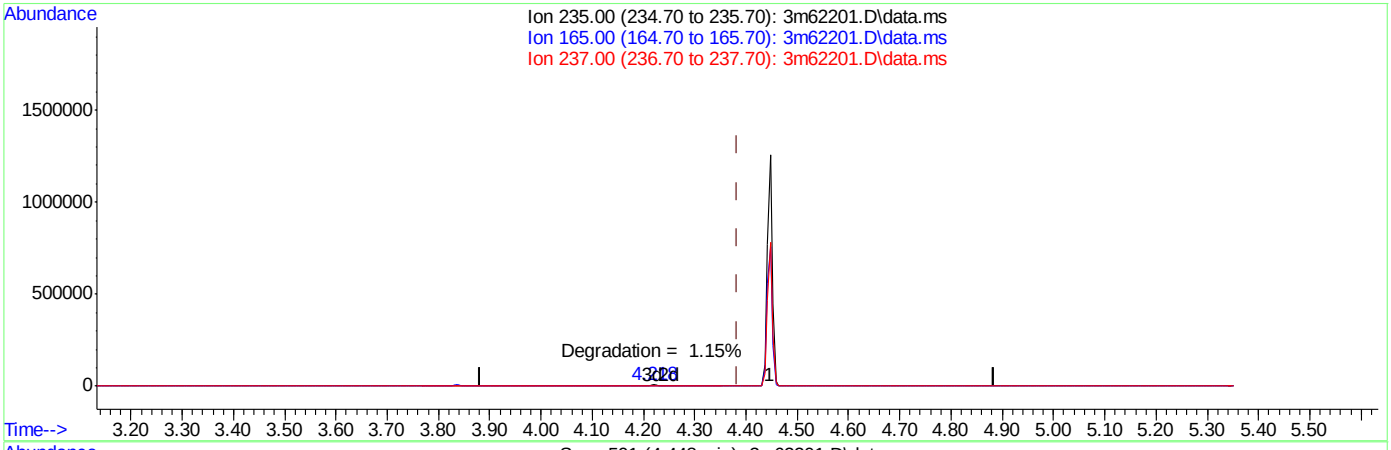
Ion	Exp%	Act%
184.00	100	100
183.00	11.50	13.07
185.00	14.40	13.60
0.00	0.00	0.00

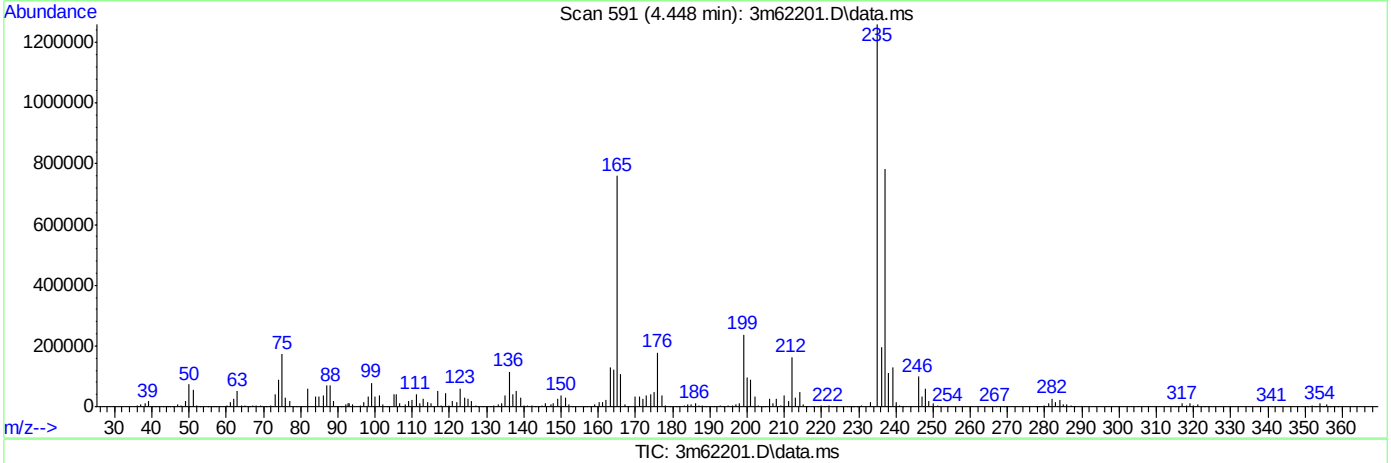
SGS ACCUTEST JC21347

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E3M2934\
Data File : 3m62201.D
Acq On : 14 Jun 2016 12:30 pm
Operator : linseyk
Sample : dftpp
Misc : op94419a,e3m2934
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 14 12:35:05 2016
Quant Method : C:\MSDCHEM\1\METHODS\DFTPP3M.M
Quant Title : DFTPP, RXI-5MS 30m x .25mm x .25um
QLast Update : Wed Dec 09 10:32:40 2015
Response via : Initial Calibration





TIC: 3m62201.D\data.ms

(3) PP-DDT (t)

4.448min (+0.064) 113.08ppb

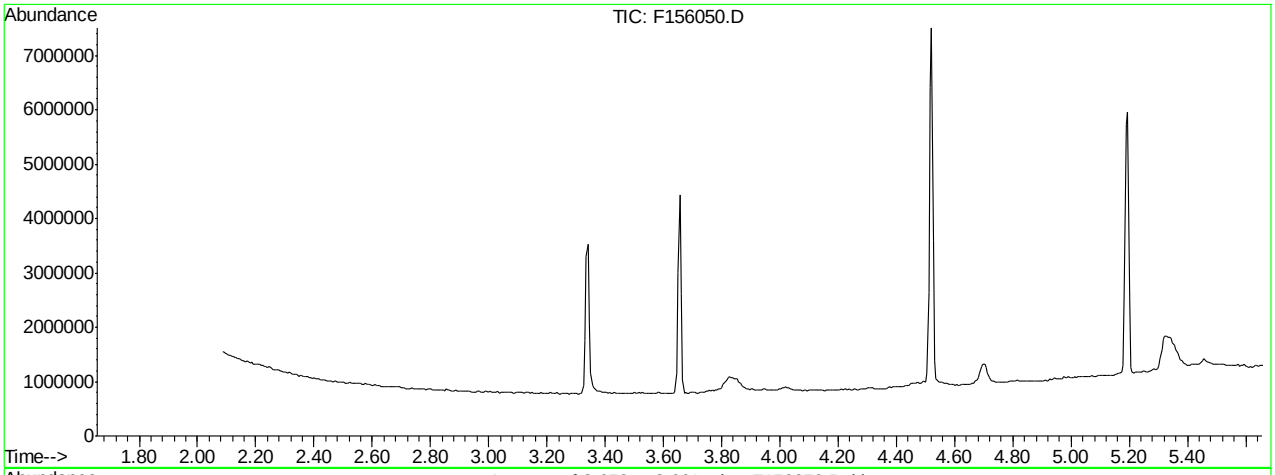
response 842273

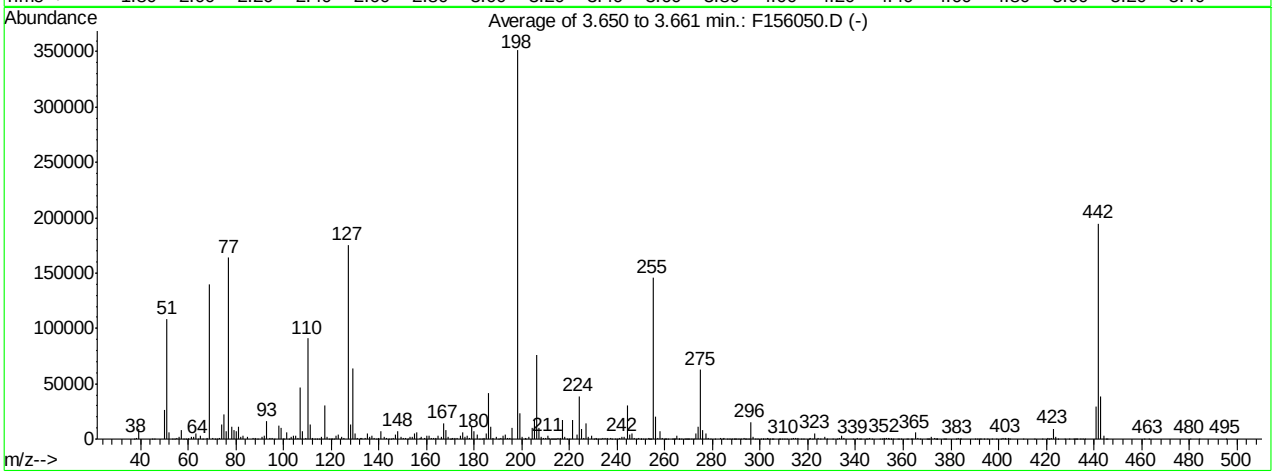
Ion	Exp%	Act%
235.00	100	100
165.00	0.00	62.83#
237.00	0.00	61.58#
0.00	0.00	0.00

SGS ACCUTEST JC21347

DFTPP

Data File : C:\MSDCHEM\1\DATA\EF6563\F156050.D Vial: 1
Acq On : 4 Apr 2016 6:54 pm Operator: sarad
Sample : dftpp Inst : MSF
Misc : op92661,ef6563,100 Multiplr: 1.00
MS Integration Params: RTEINT.P
Method : C:\MSDCHEM\1\METHODS\DFTPPF.M (RTE Integrator)
Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um





AutoFind: Scans 294, 295, 296; Background Corrected with Scan 289

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	30.9	108584	PASS
68	69	0.00	2	0.4	596	PASS
69	198	0.00	100	39.9	140032	PASS
70	69	0.00	2	0.5	642	PASS
127	198	40	60	50.0	175460	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	351082	PASS
199	198	5	9	6.6	23024	PASS
275	198	10	30	17.8	62466	PASS
365	198	1	100	1.6	5730	PASS
441	443	0.10	100	76.5	29498	PASS
442	198	40	100	55.5	194704	PASS
443	442	17	23	19.8	38575	PASS

F156050.D DFTPPF.M Tue Apr 05 08:58:18 2016 RT1

Average of 3.650 to 3.661 min.: F156050.D
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
37.10	121	56.10	2199	66.00	127	78.10	11499
38.10	1475	57.10	8176	68.05	596	79.05	8614
39.10	9324	58.10	323	69.00	140032	80.05	7248
45.00	511	59.05	46	70.05	642	81.05	10934
45.90	115	60.00	329	71.10	195	82.00	2181
50.10	26475	60.10	39	72.00	349	83.00	3331
51.10	108584	61.10	1880	73.05	1066	85.05	2334
52.05	5725	62.05	1771	74.10	12924	87.00	1216
53.10	215	63.05	4830	75.05	21814	88.00	1338
54.10	62	64.05	543	76.10	7484	89.05	289
55.10	911	65.10	2744	77.05	163988	91.00	2470

Average of 3.650 to 3.661 min.: F156050.D
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
92.05	2633	103.00	1713	113.85	350	124.10	1768
93.00	16334	104.05	3481	114.90	344	125.05	1397
94.10	1243	105.00	3203	115.95	2130	127.00	175460
95.10	687	106.10	1218	117.05	30135	128.00	12823
96.05	297	107.05	46722	118.00	2399	129.00	64327
98.00	11699	108.05	6997	119.00	151	129.95	5600
99.00	10166	109.10	753	120.00	387	131.05	599
99.90	353	110.00	90877	120.20	319	132.10	620
100.10	429	111.05	13190	121.15	409	133.00	595
101.05	5906	112.05	1333	122.00	2582	134.00	1539
102.00	451	113.00	458	123.00	3857	135.00	4877

Average of 3.650 to 3.661 min.: F156050.D
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
136.05	1744	147.05	4585	157.95	1596	169.00	1573
137.10	2951	147.95	7382	159.00	1240	170.10	239
138.00	646	149.05	1699	160.05	2858	170.30	64
138.90	204	150.00	628	161.00	2965	170.95	1211
140.05	843	151.05	1260	162.00	774	172.00	1359
141.00	6969	151.95	410	163.00	610	173.00	1278
142.00	2410	153.00	1882	164.00	741	174.05	3573
143.00	1540	154.05	1929	164.95	2736	175.05	5852
144.05	466	155.10	4621	166.00	2181	176.05	2477
145.00	528	156.05	6490	167.00	14623	177.00	2801
146.05	1548	157.10	1173	168.05	8099	177.95	1127

Average of 3.650 to 3.661 min.: F156050.D
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
179.00	11119	190.00	253	201.70	512	212.10	470
180.00	7086	191.05	899	203.00	1704	212.80	113
181.05	4124	192.00	3434	204.10	10276	213.10	360
182.00	455	193.05	3871	205.05	17348	213.70	51
183.05	461	194.05	910	206.10	75549	214.15	268
184.05	845	195.10	766	207.10	10008	214.90	577
185.05	5401	196.00	10568	208.05	1885	216.00	1141
186.10	41858	198.00	351082	209.00	601	217.00	17682
187.05	11420	199.00	23024	210.10	779	218.05	2187
188.05	931	199.95	1705	210.95	2624	219.00	209
189.05	1961	201.50	1343	211.55	1122	220.00	120

Average of 3.650 to 3.661 min.: F156050.D
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
221.05	16981	232.15	291	243.05	2187	253.00	879
223.00	4309	233.15	393	244.10	30309	253.25	26
224.00	38517	234.00	545	245.05	4332	253.80	466
225.10	9646	235.05	1129	246.00	4946	254.00	316

226.00	1104	236.00	714	247.05	1138	254.95	145383
227.00	14705	237.05	1154	248.00	436	256.00	20745
227.95	1957	237.80	56	248.95	897	256.95	1371
229.00	3117	239.05	301	249.90	236	258.00	7130
230.00	453	239.90	483	250.10	183	259.05	928
230.90	209	241.00	854	251.10	353	259.70	65
231.05	883	242.10	2069	251.90	364	260.05	182

Average of 3.650 to 3.661 min.: F156050.D
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
260.45	109	268.95	145	277.95	750	290.05	320
261.05	362	269.40	73	279.10	383	291.00	56
263.10	196	269.70	11	281.05	157	291.90	94
263.75	135	270.00	200	283.10	590	293.00	1314
264.00	199	271.00	363	284.10	413	293.90	81
264.20	127	272.00	387	284.95	670	294.10	199
264.95	2896	273.00	4768	286.25	243	294.90	201
265.70	276	273.95	11030	287.10	176	296.00	15656
266.00	166	275.00	62466	288.10	57	297.05	2264
267.10	268	276.00	8219	289.10	71	298.00	101
268.20	186	277.00	4810	289.25	277	298.70	52

Average of 3.650 to 3.661 min.: F156050.D
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
300.10	165	309.10	264	322.00	194	338.90	94
301.00	186	310.10	323	323.00	5205	340.95	626
301.20	67	311.00	66	324.05	1075	341.80	104
302.05	269	313.20	206	325.10	92	342.10	77
302.90	452	314.05	642	327.00	1660	344.30	67
303.05	1367	315.00	1345	328.00	316	344.80	55
303.90	401	315.95	1017	330.20	64	345.95	1123
304.80	118	317.00	123	332.05	295	346.95	337
305.30	72	318.10	97	333.00	554	350.30	57
307.90	97	320.30	55	334.00	3443	351.00	53
308.10	100	321.00	739	335.00	659	351.90	190

Average of 3.650 to 3.661 min.: F156050.D
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
352.10	1136	361.80	50	373.70	51	390.95	261
353.00	850	363.20	93	374.10	93	392.00	63
353.90	238	363.80	64	374.30	83	392.30	58
354.05	1167	365.00	5730	376.90	190	393.90	123
354.90	54	366.00	971	377.50	52	395.10	58
355.05	273	367.05	161	378.10	53	397.10	51
356.00	53	370.00	168	382.10	54	399.10	78
357.60	67	370.30	97	383.00	761	400.95	208
357.90	60	370.75	263	383.85	127	401.95	995
358.90	65	372.00	1944	384.10	53	402.80	239
361.20	167	373.00	674	390.05	446	403.00	1403

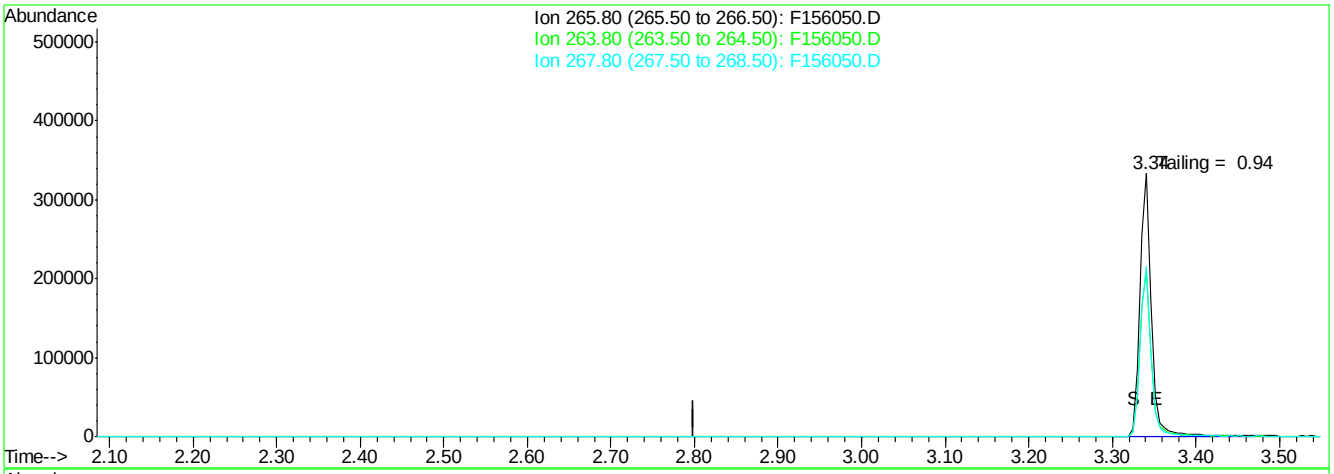
Average of 3.650 to 3.661 min.: F156050.D
dftpp
Modified:subtracted

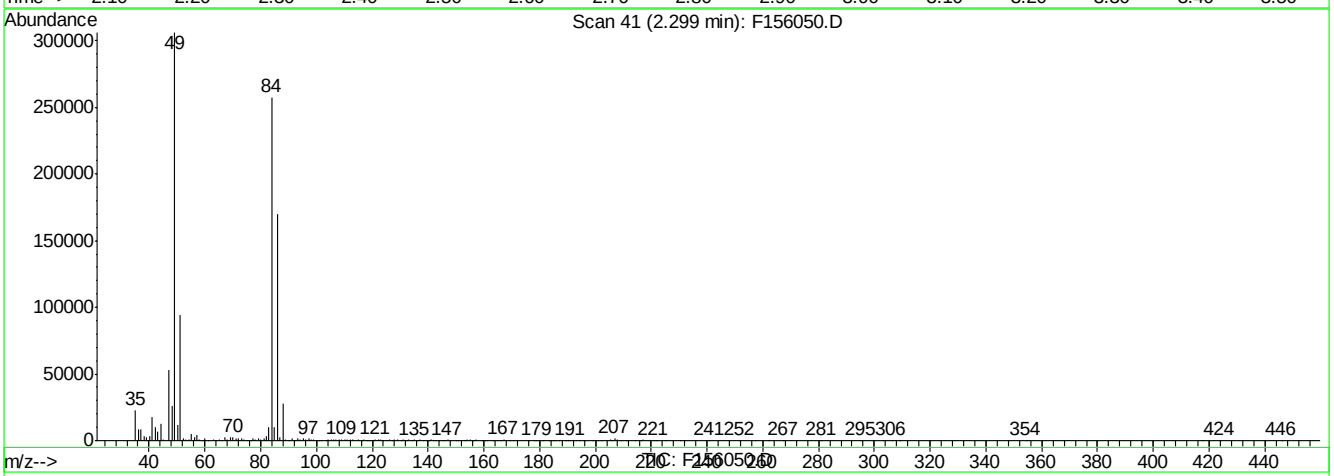
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
404.00	584	427.70	83	443.00	38575		
404.80	65	429.40	79	444.05	3498		
410.40	50	431.40	71	445.05	222		
415.10	112	432.10	134	445.50	51		
418.40	66	432.50	63	461.20	56		
420.90	861	432.90	122	463.00	83		
421.10	526	434.30	156	480.40	92		
421.95	1059	435.20	63	484.20	64		
423.00	9553	436.00	65	495.30	60		
424.00	2146	441.00	29498				
425.05	126	442.00	194704				

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF6563\F156050.D Vial: 1
Acq On : 4 Apr 2016 6:54 pm Operator: sarad
Sample : dftpp Inst : MSF
Misc : op92661,ef6563,100 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Apr 4 19:00 2016 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\DFTPPF.M (RTE Integrator)
Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
Last Update : Thu Mar 24 11:46:42 2016
Response via : Multiple Level Calibration





(1) Pentachlorophenol (t)

2.30min 0.00ppb

response 0

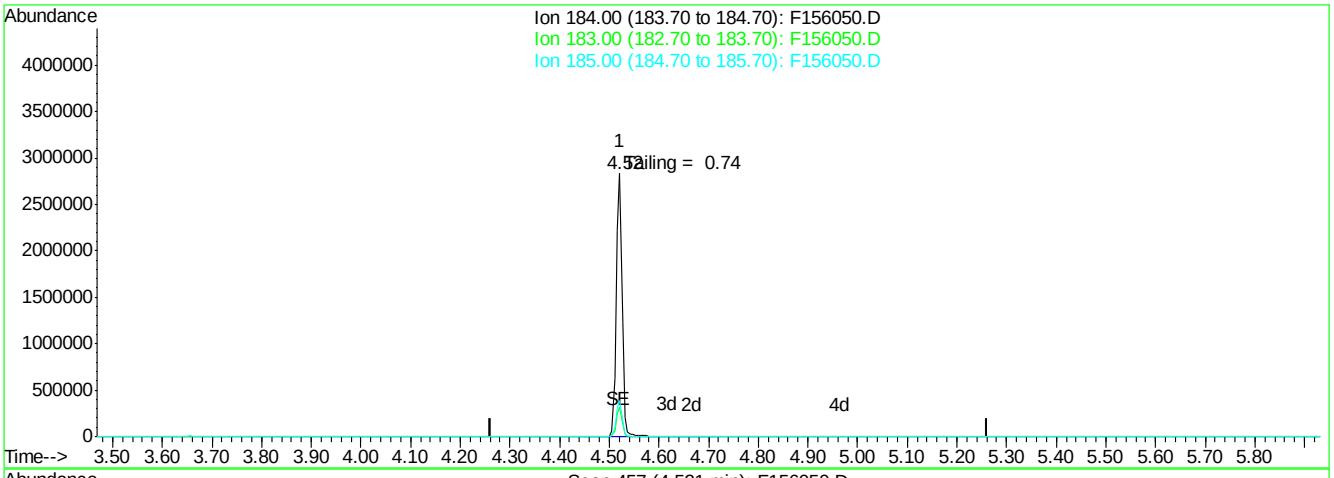
Ion	Exp%	Act%
265.80	100	0.00
263.80	63.00	0.00#
267.80	64.80	0.00#
0.00	0.00	0.00

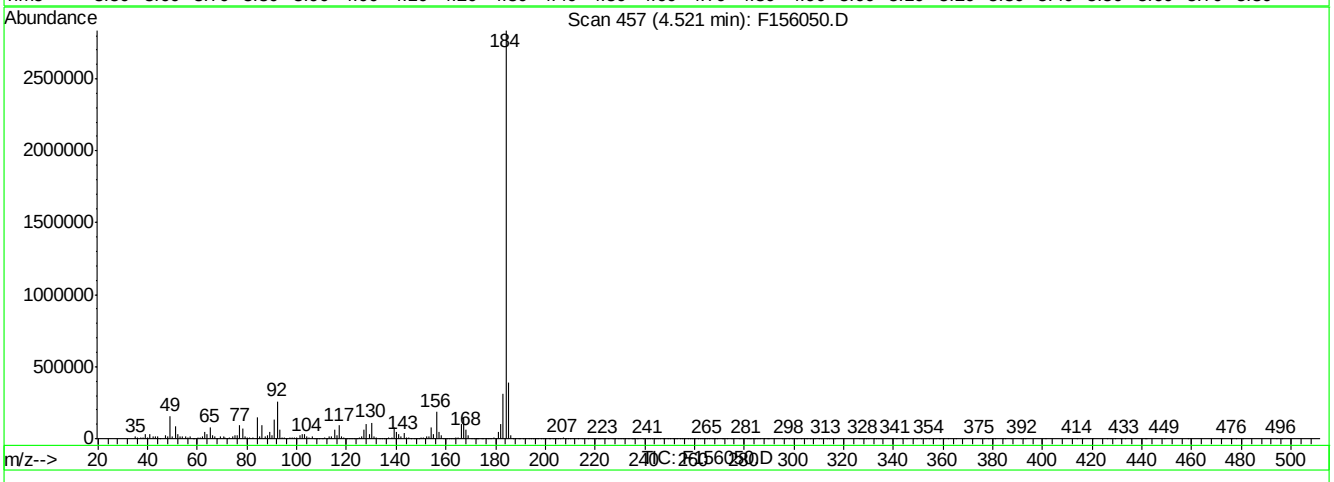
F156050.D DFTPPF.M Mon Apr 04 19:01:22 2016 RT1

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF6563\F156050.D Vial: 1
Acq On : 4 Apr 2016 6:54 pm Operator: sarad
Sample : dftpp Inst : MSF
Misc : op92661,ef6563,100 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Apr 4 19:01 2016 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\DFTPPF.M (RTE Integrator)
Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
Last Update : Thu Mar 24 11:46:42 2016
Response via : Multiple Level Calibration





(2) Benzidine (t)

4.52min 125.89ppb

response 2358304

Ion	Exp%	Act%
184.00	100	100
183.00	12.60	10.87
185.00	16.20	13.85
0.00	0.00	0.00

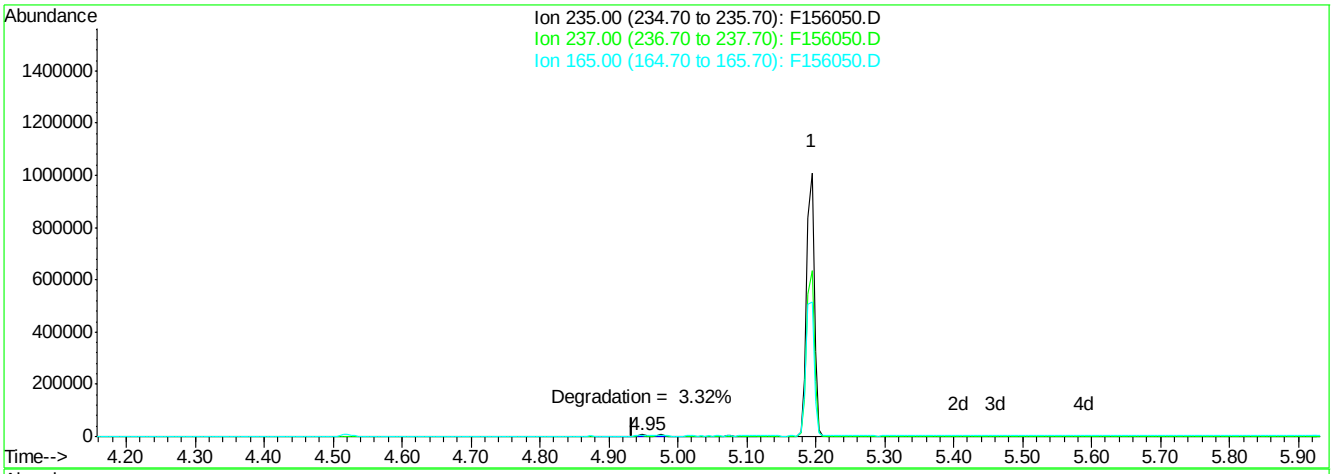
F156050.D DFTPPF.M Mon Apr 04 19:01:32 2016 RT1

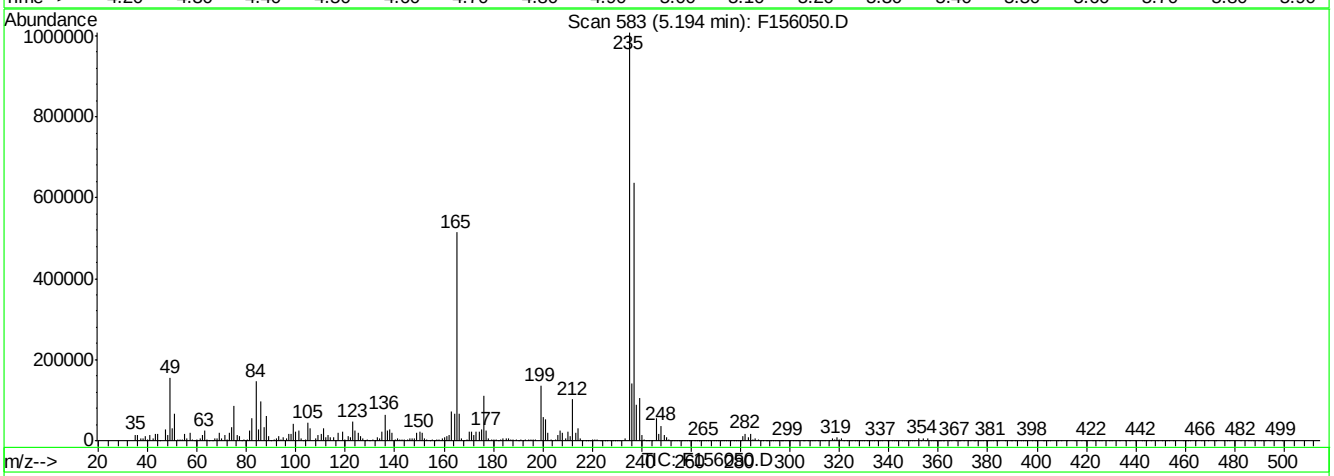
SGS ACCUTEST JC21347

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF6563\F156050.D Vial: 1
Acq On : 4 Apr 2016 6:54 pm Operator: sarad
Sample : dftpp Inst : MSF
Misc : op92661,ef6563,100 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Apr 4 19:01 2016 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\DFTPPF.M (RTE Integrator)
Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
Last Update : Thu Mar 24 11:46:42 2016
Response via : Single Level Calibration





(3) ddt (t)

5.19min 50.20ppb

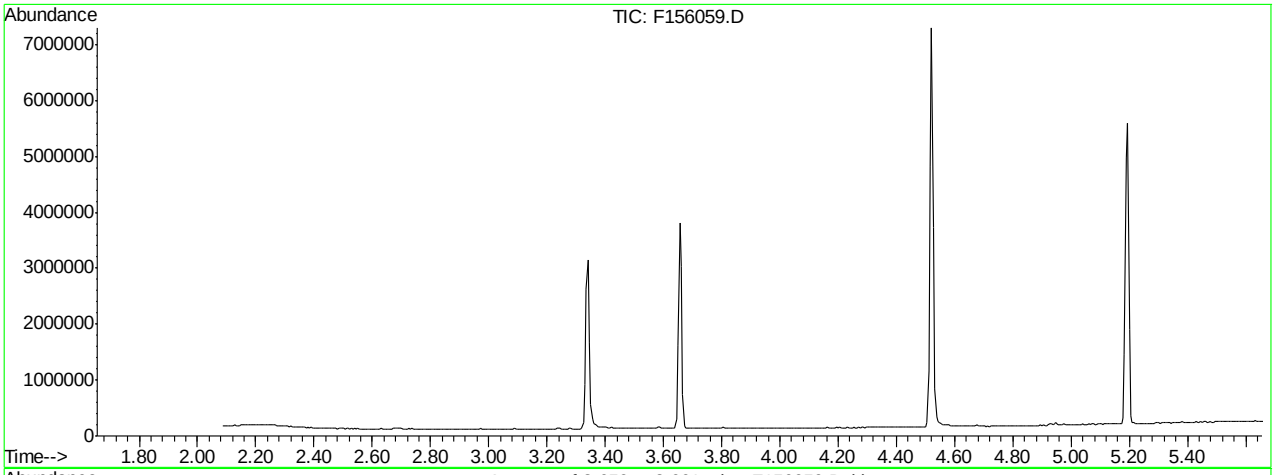
response 779578

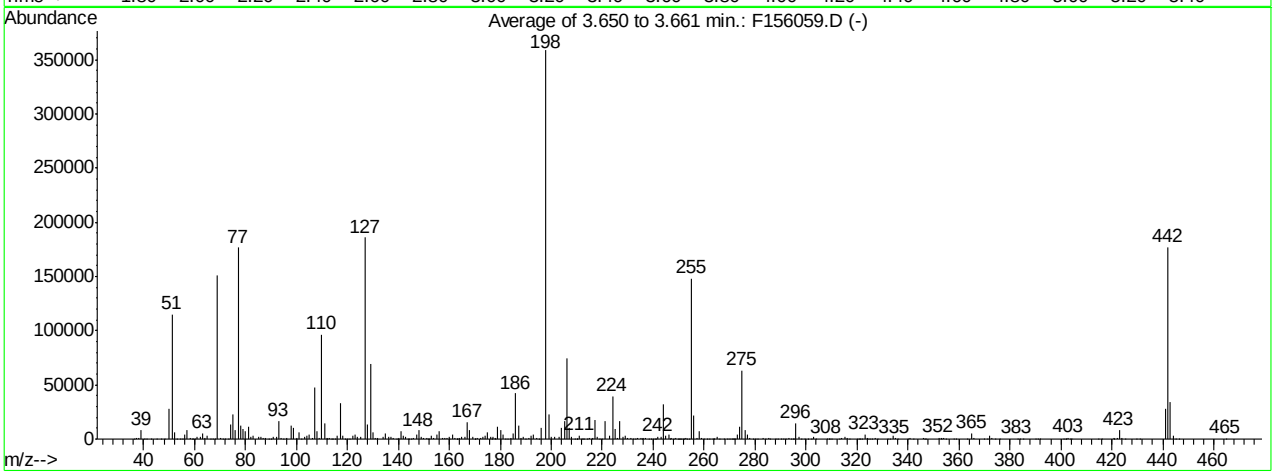
Ion	Exp%	Act%
235.00	100	100
237.00	66.70	64.25
165.00	59.50	54.99
0.00	0.00	0.00

F156050.D DFTPPF.M Mon Apr 04 19:01:45 2016 RT1

DFTPP

Data File : C:\MSDCHEM\1\DATA\EF6564\F156059.D Vial: 1
Acq On : 4 Apr 2016 11:06 pm Operator: sarad
Sample : dftpp Inst : MSF
Misc : op92661,ef6564,100 Multiplr: 1.00
MS Integration Params: RTEINT.P
Method : C:\MSDCHEM\1\METHODS\DFTPPF.M (RTE Integrator)
Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um





AutoFind: Scans 294, 295, 296; Background Corrected with Scan 289

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	32.1	115179	PASS
68	69	0.00	2	0.1	157	PASS
69	198	0.00	100	42.2	151437	PASS
70	69	0.00	2	0.5	785	PASS
127	198	40	60	51.9	186202	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	358677	PASS
199	198	5	9	6.5	23181	PASS
275	198	10	30	17.7	63472	PASS
365	198	1	100	1.5	5413	PASS
441	443	0.10	100	79.8	27575	PASS
442	198	40	100	49.5	177434	PASS
443	442	17	23	19.5	34561	PASS

F156059.D DFTPPF.M Tue Apr 05 09:44:21 2016 RT1

Average of 3.650 to 3.661 min.: F156059.D
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.10	101	51.10	115179	61.10	1746	71.80	73
37.10	647	52.10	6200	62.10	1793	73.10	554
38.10	1311	53.10	252	63.10	5611	74.10	13037
39.05	8323	54.15	204	64.10	860	75.10	23122
40.05	441	55.10	276	65.10	2866	76.05	8284
41.10	389	56.10	3758	66.10	219	77.10	176491
43.10	114	57.10	8251	67.10	39	78.10	12704
45.10	71	58.10	758	68.00	157	79.10	9634
47.05	483	59.05	34	69.00	151437	80.05	7703
48.05	346	59.40	63	70.05	785	81.00	11177
50.05	27956	60.10	262	71.20	313	82.00	2523

Average of 3.650 to 3.661 min.: F156059.D
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
83.10	2967	95.00	10	107.05	47593	116.05	2895
85.05	2033	96.05	697	108.05	7381	117.05	33243
86.00	2359	98.00	12220	109.05	1263	118.00	2779
87.00	1087	99.00	10890	110.00	96688	118.95	407
88.00	960	100.05	1205	111.00	14437	120.00	256
89.10	159	101.00	5862	111.90	459	121.00	284
90.00	72	102.00	482	112.05	1342	122.00	3048
91.00	2335	103.00	2269	112.90	627	123.05	4441
92.05	2422	104.05	3609	113.80	79	124.00	1683
93.05	17061	105.05	3684	114.00	101	125.00	2068
94.05	1272	106.10	1410	115.10	289	127.00	186202

Average of 3.650 to 3.661 min.: F156059.D
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
128.00	13730	139.95	594	149.95	896	159.90	554
128.95	69021	141.00	7558	151.05	1092	160.05	2046
130.00	5740	142.05	2861	151.60	283	161.05	3971
131.00	1240	142.95	1628	152.05	256	162.00	830
131.95	628	143.70	136	153.00	2738	162.85	316
134.00	1770	144.10	522	154.00	1359	163.10	248
135.00	5452	145.05	535	155.05	4416	164.05	629
136.05	2251	146.00	1211	156.05	6855	165.00	2524
137.05	2589	147.00	3706	157.15	1431	166.00	2604
138.10	583	148.00	8220	158.00	1275	167.05	15875
139.15	306	149.00	2077	159.00	1316	168.05	8364

Average of 3.650 to 3.661 min.: F156059.D
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
169.05	1700	177.90	192	188.10	1460	200.05	1677
170.00	168	178.05	832	189.00	2476	201.50	1904
170.25	453	179.00	11250	190.00	484	203.00	2172
171.00	804	180.05	7935	191.00	1054	204.00	10164
172.05	1051	181.05	4199	192.05	3300	205.05	17072
173.05	2277	181.95	497	193.05	4197	206.10	74245
174.00	2790	182.95	497	194.05	878	207.00	9933
175.05	6057	184.05	737	195.05	522	208.00	1997
176.05	1945	185.05	5325	196.00	10444	209.05	410
176.80	323	186.05	42413	198.00	358677	210.00	511
177.00	2145	187.05	12306	199.00	23181	210.30	455

Average of 3.650 to 3.661 min.: F156059.D
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
211.10	3591	219.80	171	232.00	337	240.95	501
211.90	163	221.05	16562	233.05	423	242.00	2453
212.10	158	223.00	3383	234.00	1016	243.05	2298
212.90	178	224.10	39349	235.00	1402	244.05	31834

214.20	57	225.05	9461	235.80	58	245.05	3589
215.00	855	226.05	1111	236.00	583	246.00	4699
215.90	205	227.00	16124	236.95	1420	246.70	89
216.05	1263	228.00	2042	238.05	330	247.05	1194
217.00	17655	229.00	3218	239.05	433	248.00	266
218.05	2283	229.95	590	239.95	427	248.90	1065
218.95	274	231.05	1351	240.80	107	249.85	224

Average of 3.650 to 3.661 min.: F156059.D
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
250.10	96	258.00	7545	268.90	54	277.95	633
250.70	225	259.00	1105	269.95	238	279.05	217
251.15	272	260.00	189	270.80	257	280.10	51
251.70	87	261.00	329	271.10	131	281.05	415
252.05	297	262.10	88	271.70	172	283.00	831
253.00	871	263.50	65	272.15	265	284.10	523
253.40	315	263.80	165	273.00	4245	285.15	817
254.00	454	264.00	143	274.00	11599	286.00	94
255.00	148034	265.05	2447	275.00	63472	288.00	54
256.00	22204	265.90	496	276.00	8397	288.85	195
257.00	1309	267.90	152	277.05	4502	290.20	61

Average of 3.650 to 3.661 min.: F156059.D
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
290.95	149	302.10	247	316.95	205	328.00	470
291.95	186	303.00	1987	320.20	51	332.10	412
293.05	1451	303.90	551	320.90	173	333.00	465
293.95	367	308.10	364	321.10	267	334.00	3432
294.90	70	309.00	106	322.05	284	335.05	767
295.10	145	309.20	88	323.05	4529	336.00	79
296.00	14754	309.95	185	323.90	146	340.00	178
297.05	2016	312.90	78	324.05	772	340.95	617
298.00	100	314.10	894	325.05	115	342.10	63
299.30	58	315.05	1782	326.00	63	346.05	1077
300.90	122	316.00	1001	326.95	849	346.70	169

Average of 3.650 to 3.661 min.: F156059.D
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
347.00	116	370.00	203	392.00	178	422.00	1337
352.00	1458	371.00	426	401.00	53	423.00	8310
352.90	88	372.05	2666	401.85	228	424.05	1589
353.05	1025	373.05	614	402.10	351	425.05	283
354.00	1462	374.00	76	403.00	1361	429.80	115
354.95	374	376.10	64	403.80	56	430.90	52
357.90	59	383.00	543	404.10	504	441.00	27575
358.95	197	383.80	175	414.90	69	442.00	177434
363.00	72	385.00	114	416.00	57	443.00	34561
365.00	5413	389.95	280	420.70	147	444.00	3599
366.00	914	390.90	385	421.00	983	445.00	148

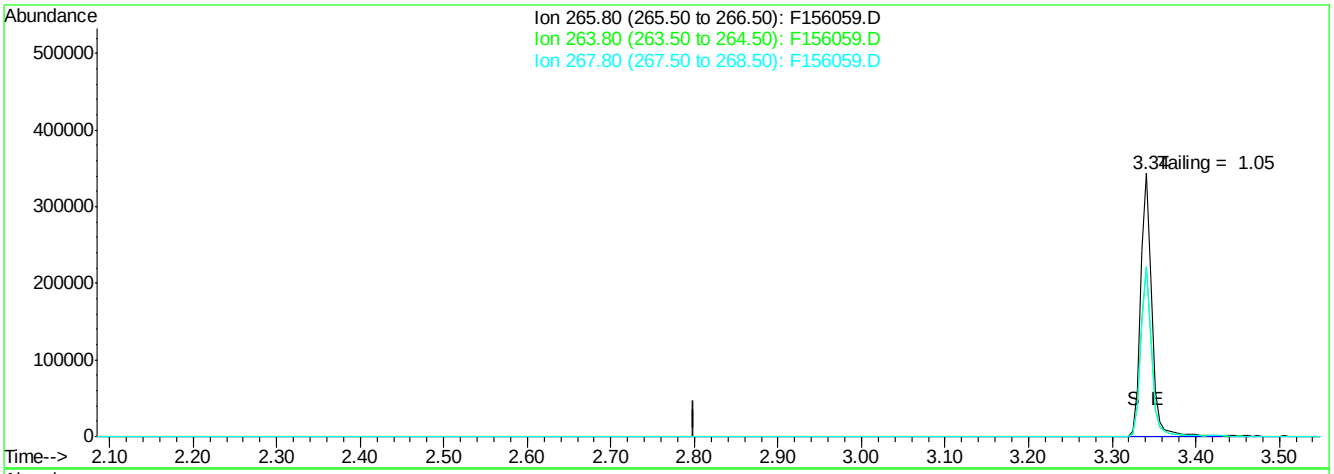
Average of 3.650 to 3.661 min.: F156059.D
dftpp
Modified:subtracted

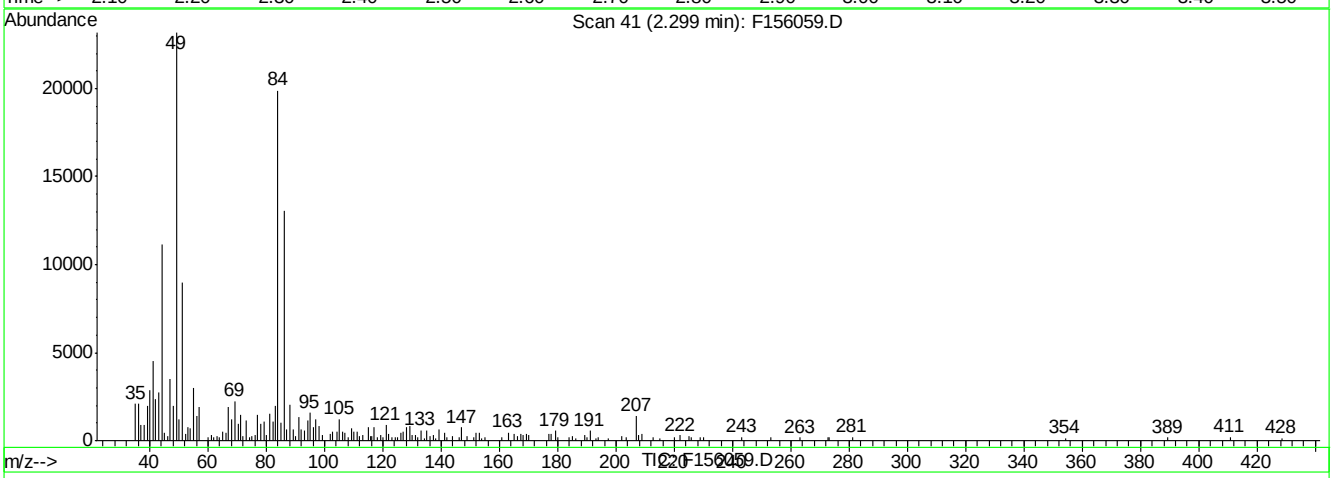
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
446.20	59						
464.70	59						

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF6564\F156059.D Vial: 1
Acq On : 4 Apr 2016 11:06 pm Operator: sarad
Sample : dftpp Inst : MSF
Misc : op92661,ef6564,100 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Apr 4 23:12 2016 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\DFTPPF.M (RTE Integrator)
Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
Last Update : Thu Mar 24 11:46:42 2016
Response via : Multiple Level Calibration





(1) Pentachlorophenol (t)

2.30min 0.00ppb

response 0

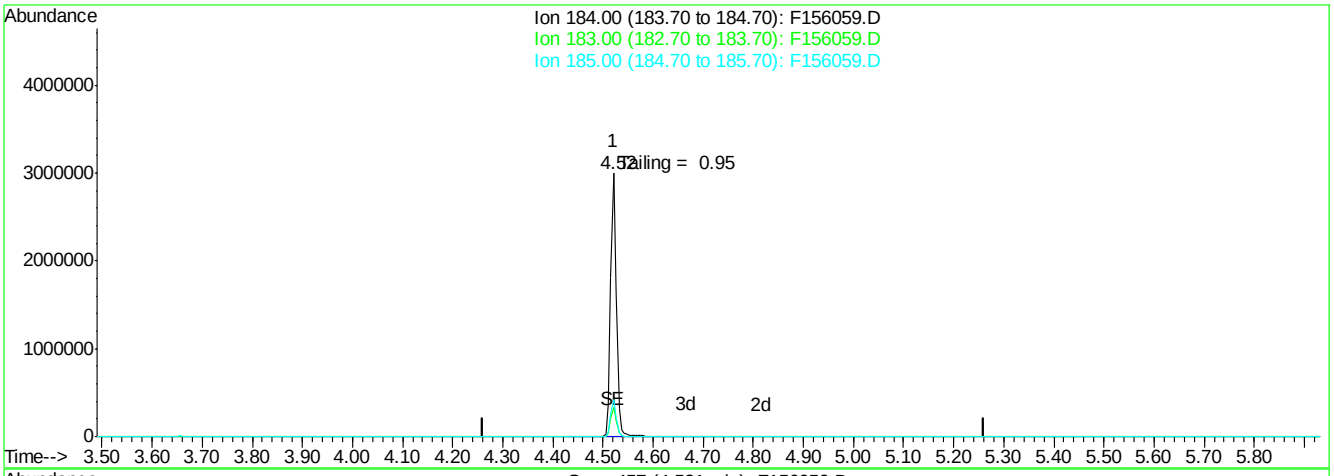
Ion	Exp%	Act%
265.80	100	0.00
263.80	63.00	0.00#
267.80	64.80	0.00#
0.00	0.00	0.00

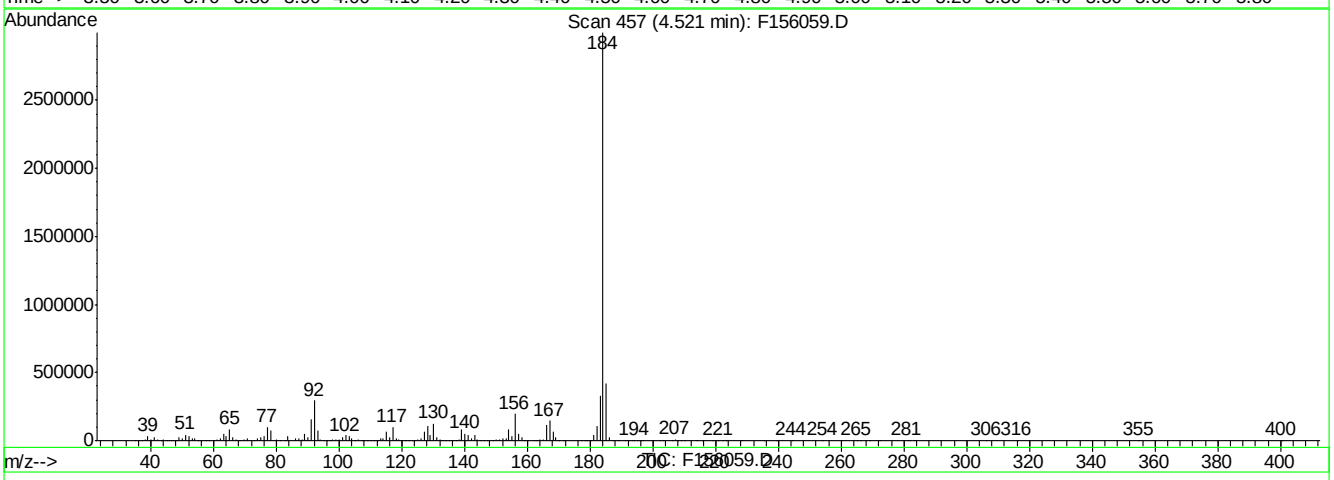
F156059.D DFTPPF.M Mon Apr 04 23:16:21 2016 RT1

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF6564\F156059.D Vial: 1
Acq On : 4 Apr 2016 11:06 pm Operator: sarad
Sample : dftpp Inst : MSF
Misc : op92661,ef6564,100 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Apr 4 23:12 2016 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\DFTPPF.M (RTE Integrator)
Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
Last Update : Thu Mar 24 11:46:42 2016
Response via : Multiple Level Calibration





(2) Benzidine (t)

4.52min 127.15ppb

response 2381841

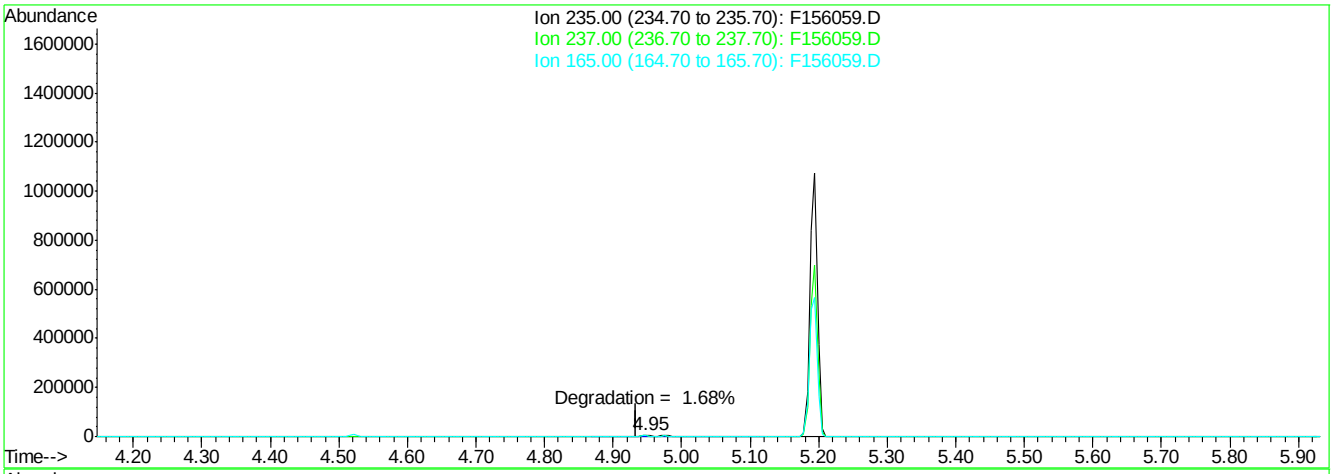
Ion	Exp%	Act%
184.00	100	100
183.00	12.60	10.83
185.00	16.20	13.82
0.00	0.00	0.00

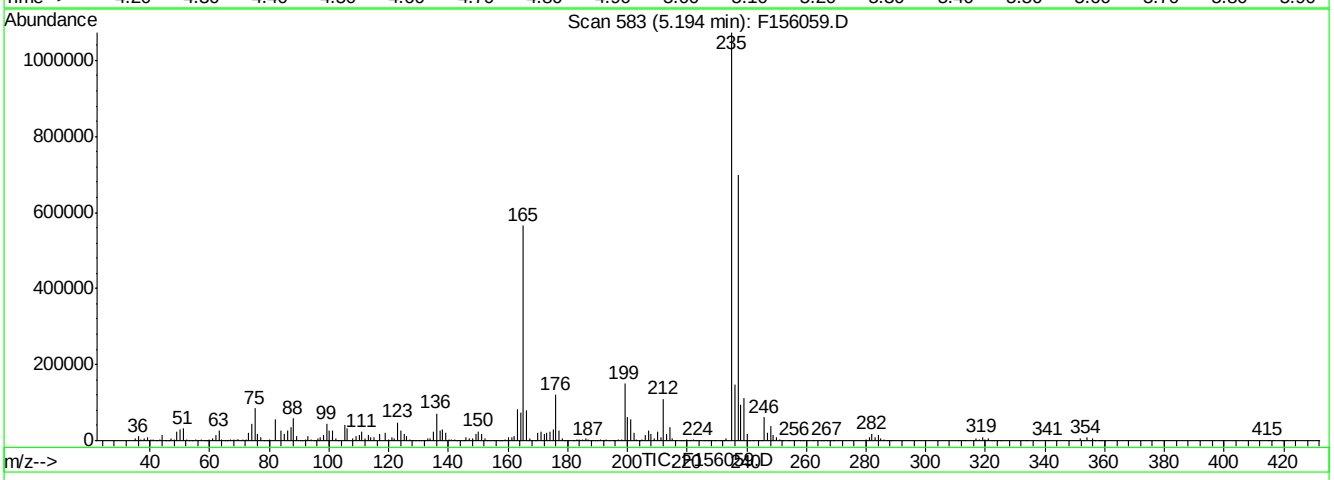
F156059.D DFTPPF.M Mon Apr 04 23:16:45 2016 RT1

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF6564\F156059.D Vial: 1
Acq On : 4 Apr 2016 11:06 pm Operator: sarad
Sample : dftpp Inst : MSF
Misc : op92661,ef6564,100 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Apr 4 23:12 2016 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\DFTPPF.M (RTE Integrator)
Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
Last Update : Thu Mar 24 11:46:42 2016
Response via : Single Level Calibration





(3) ddt (t)

5.19min 51.98ppb

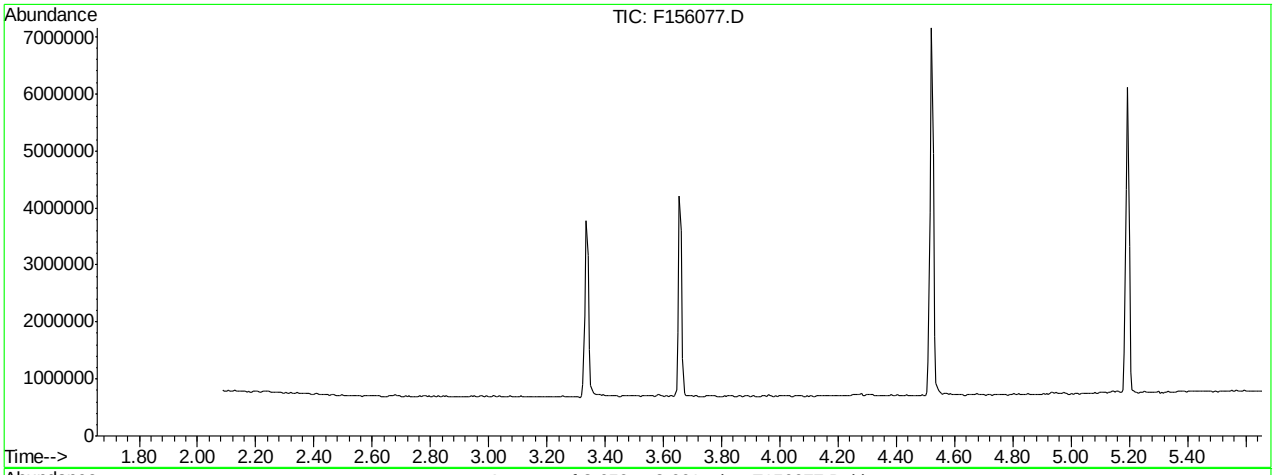
response 807232

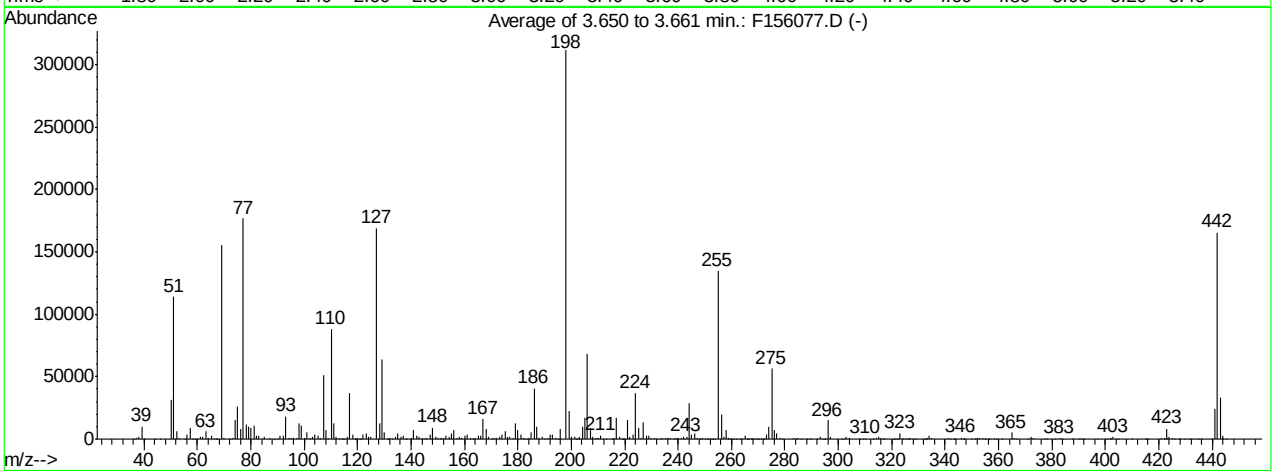
Ion	Exp%	Act%
235.00	100	100
237.00	66.70	64.82
165.00	59.50	55.83
0.00	0.00	0.00

F156059.D DFTPPF.M Mon Apr 04 23:16:54 2016 RT1

DFTPP

Data File : C:\MSDCHEM\1\DATA\EF6565\F156077.D Vial: 1
Acq On : 5 Apr 2016 12:39 pm Operator: linseyk
Sample : dftpp Inst : MSF
Misc : op92661,ef6565 Multiplr: 1.00
MS Integration Params: RTEINT.P
Method : C:\MSDCHEM\1\METHODS\DFTPPF.M (RTE Integrator)
Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um





AutoFind: Scans 294, 295, 296; Background Corrected with Scan 289

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	36.5	113770	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	49.9	155286	PASS
70	69	0.00	2	0.4	624	PASS
127	198	40	60	54.3	168986	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	311320	PASS
199	198	5	9	7.1	22221	PASS
275	198	10	30	18.1	56352	PASS
365	198	1	100	1.7	5287	PASS
441	443	0.10	100	73.1	24638	PASS
442	198	40	100	53.2	165610	PASS
443	442	17	23	20.3	33689	PASS

F156077.D DFTPPF.M Wed Apr 06 09:14:46 2016 RT1

Average of 3.650 to 3.661 min.: F156077.D
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.10	308	55.10	373	66.05	377	78.10	11792
37.10	932	56.00	3456	66.80	124	79.05	9624
38.05	1378	57.10	9358	67.15	52	80.00	8577
39.10	9909	58.05	277	69.00	155286	81.05	11195
40.10	95	59.10	123	70.00	624	82.00	2773
44.10	40	60.00	96	72.00	229	83.00	2437
45.95	201	61.00	1887	73.10	747	85.00	1540
50.10	31233	62.10	2188	74.10	15408	87.00	1228
51.10	113770	63.10	5964	75.05	25774	88.95	127
52.10	5967	64.10	1005	76.10	8166	89.90	55
53.15	648	65.15	2977	77.10	176604	91.05	2343

Average of 3.650 to 3.661 min.: F156077.D
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
92.00	2793	103.00	2050	113.90	72	122.00	3230
93.05	18365	104.05	3758	114.20	72	123.00	4356
94.05	1346	105.00	3055	115.00	27	124.05	2083
95.20	644	106.00	1316	116.00	2134	125.05	1495
96.10	982	107.05	50832	117.00	37059	127.05	168986
97.05	767	108.05	7251	118.05	3211	128.10	12943
98.05	12183	109.05	696	118.90	196	129.00	63960
99.05	10940	110.00	88268	119.10	176	130.00	5561
100.10	1128	111.05	12736	119.95	642	131.00	455
101.05	5678	112.00	1602	120.80	123	131.20	446
102.10	489	113.00	589	121.15	292	132.05	537

Average of 3.650 to 3.661 min.: F156077.D
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
132.80	478	143.05	2115	153.05	2490	164.10	518
134.05	1450	144.05	627	154.10	1977	165.00	2604
135.00	4975	145.10	369	155.05	4101	166.00	2491
136.10	1789	146.00	1359	156.05	7160	167.00	15800
137.05	2847	147.05	3808	157.05	1277	168.05	7878
137.90	70	148.00	9313	158.05	1388	168.95	1496
138.25	235	149.10	1985	159.05	975	170.05	291
139.80	105	150.15	652	160.05	2631	170.90	878
140.15	744	150.90	228	161.05	3369	171.95	1218
140.95	7346	151.15	1317	162.10	1273	173.10	1457
142.05	2651	152.05	854	163.05	301	174.00	3240

Average of 3.650 to 3.661 min.: F156077.D
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
175.10	6508	185.05	5069	196.00	8379	206.10	68464
176.10	1825	186.10	40680	198.00	311320	207.05	9263
176.95	1962	187.05	10248	199.00	22221	208.00	1757
178.15	959	188.00	1174	200.00	1723	209.10	517
179.00	12621	189.05	2281	201.45	1749	210.00	757
180.05	7435	190.00	393	201.80	122	210.30	556
181.00	3472	191.00	824	202.20	301	211.05	2862
181.95	764	192.00	3618	202.90	229	211.70	66
182.60	120	193.00	3850	203.05	1912	213.15	193
183.15	404	194.05	562	204.10	9802	215.00	255
184.05	1017	195.00	462	205.05	16686	216.10	993

Average of 3.650 to 3.661 min.: F156077.D
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
217.00	17267	227.00	13512	238.05	282	246.00	4133
218.05	1842	228.05	2393	239.05	571	247.00	1216
218.95	3	229.00	2559	239.50	56	248.00	135
219.50	73	229.95	566	239.70	56	248.20	99

219.85	395	231.05	1298	240.00	763	249.00	863
221.00	15498	232.05	297	241.10	796	250.05	201
221.90	1389	233.05	474	241.90	117	251.00	372
223.00	3687	234.05	874	242.10	1492	251.20	110
224.10	37258	235.10	1035	243.10	1878	252.15	296
225.10	9078	235.95	724	244.10	28718	252.80	459
226.10	814	237.00	1348	245.10	3721	253.00	279

Average of 3.650 to 3.661 min.: F156077.D
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
253.80	149	263.10	65	270.10	116	283.10	701
255.00	134557	263.90	1	271.05	257	284.05	322
256.10	19972	265.00	2832	271.70	56	284.95	678
257.00	1746	265.80	201	272.05	417	285.90	139
258.00	6840	266.00	143	273.00	3672	288.00	120
258.80	118	266.20	168	274.00	10236	288.90	8
259.00	909	267.00	86	275.00	56352	289.80	82
259.80	72	267.80	71	276.00	7067	291.80	79
260.10	145	267.95	88	277.00	4917	292.00	119
261.00	237	268.80	83	278.05	638	293.05	1560
261.70	67	269.85	128	279.05	161	294.05	347

Average of 3.650 to 3.661 min.: F156077.D
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
294.80	99	310.05	187	323.10	4593	334.10	2842
295.00	170	313.05	138	324.10	929	334.90	538
296.00	14971	314.05	515	325.05	176	341.00	529
297.00	2020	315.00	1632	325.90	58	342.10	168
301.05	183	316.10	827	326.20	72	343.30	63
302.05	427	316.90	185	327.00	745	343.80	66
303.00	1482	317.30	101	328.05	473	346.00	1161
304.05	659	320.90	185	329.00	98	346.90	77
307.80	100	321.10	339	332.15	274	347.10	83
308.00	87	321.70	106	332.90	58	349.80	82
309.00	62	322.00	259	333.10	502	351.00	62

Average of 3.650 to 3.661 min.: F156077.D
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
352.00	1122	366.00	757	390.15	362	415.00	152
353.00	931	366.70	60	391.00	230	415.60	56
354.00	1339	371.00	475	392.00	188	415.90	55
354.80	56	372.05	2161	397.10	51	421.00	1147
355.10	122	373.05	582	400.90	54	422.00	1102
356.10	61	377.00	80	401.80	80	422.30	75
356.70	54	378.10	51	402.00	933	422.90	353
358.10	58	380.90	76	403.00	1428	423.05	8489
359.20	56	383.05	592	404.05	471	424.00	1869
361.20	63	383.95	225	405.00	54	425.00	604
365.00	5287	387.50	50	409.90	53	426.10	98

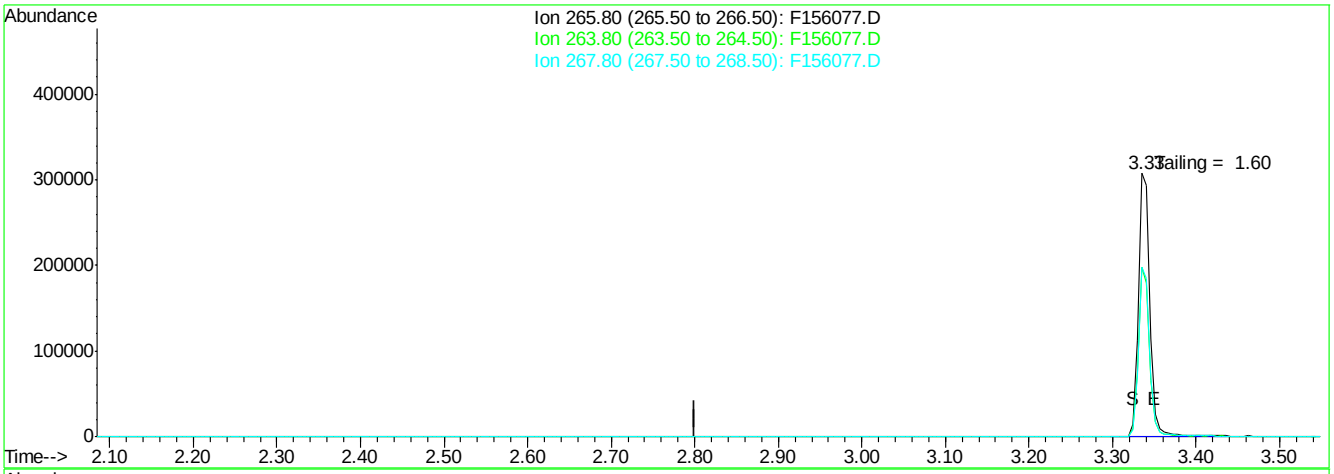
Average of 3.650 to 3.661 min.: F156077.D
dftpp
Modified:subtracted

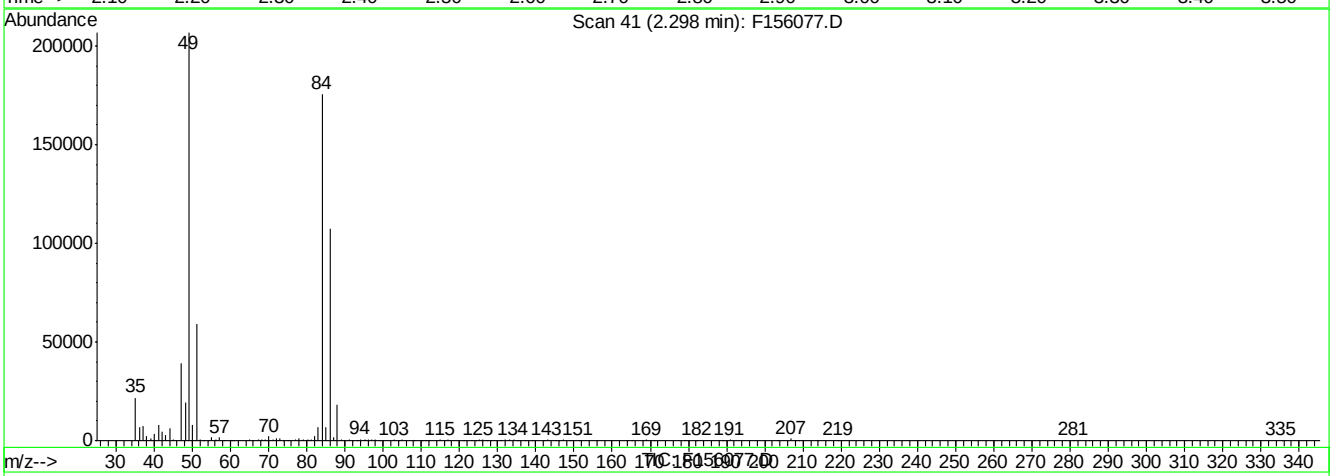
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
427.70	95	443.90	366				
428.00	58	444.10	2804				
429.70	83	445.05	263				
431.30	99						
432.10	59						
434.90	90						
435.90	79						
439.60	58						
441.05	24638						
442.00	165610						
443.05	33689						

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF6565\F156077.D Vial: 1
Acq On : 5 Apr 2016 12:39 pm Operator: linseyk
Sample : dftpp Inst : MSF
Misc : op92661,ef6565 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Apr 5 12:45 2016 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\DFTPPF.M (RTE Integrator)
Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
Last Update : Thu Mar 24 11:46:42 2016
Response via : Multiple Level Calibration





(1) Pentachlorophenol (t)

2.30min 0.00ppb

response 0

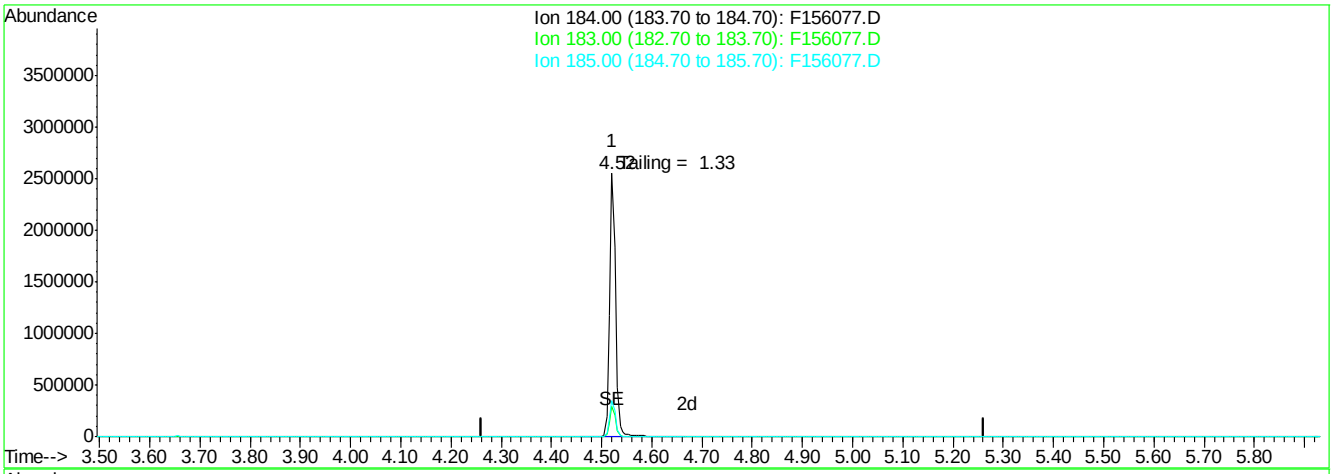
Ion	Exp%	Act%
265.80	100	0.00
263.80	63.00	0.00#
267.80	64.80	0.00#
0.00	0.00	0.00

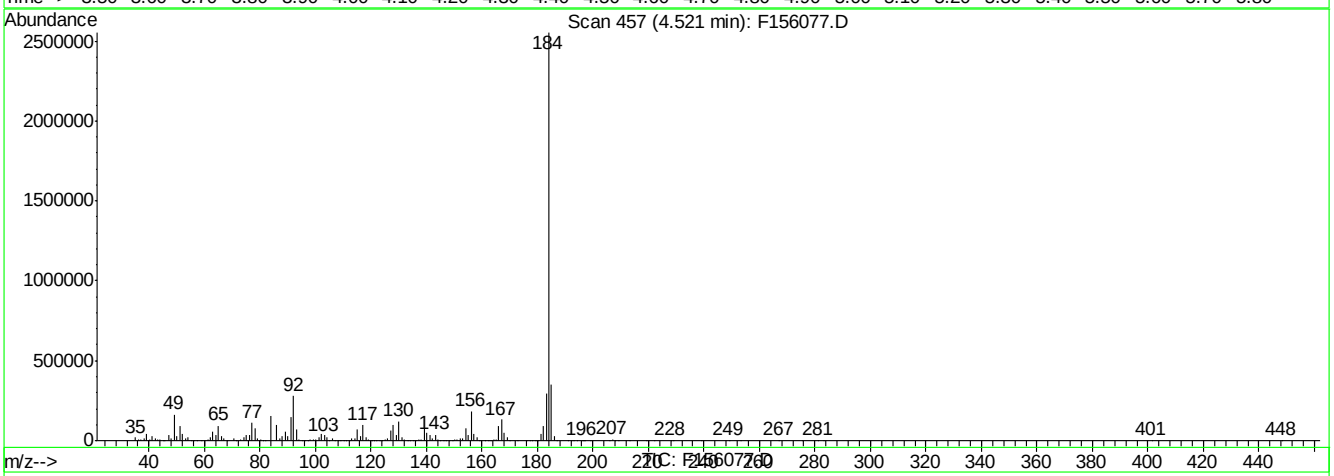
F156077.D DFTPPF.M Wed Apr 06 09:14:57 2016 RT1

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF6565\F156077.D Vial: 1
Acq On : 5 Apr 2016 12:39 pm Operator: linseyk
Sample : dftpp Inst : MSF
Misc : op92661,ef6565 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Apr 5 12:45 2016 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\DFTPPF.M (RTE Integrator)
Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
Last Update : Thu Mar 24 11:46:42 2016
Response via : Multiple Level Calibration





(2) Benzidine (t)

4.52min 111.69ppb

response 2092231

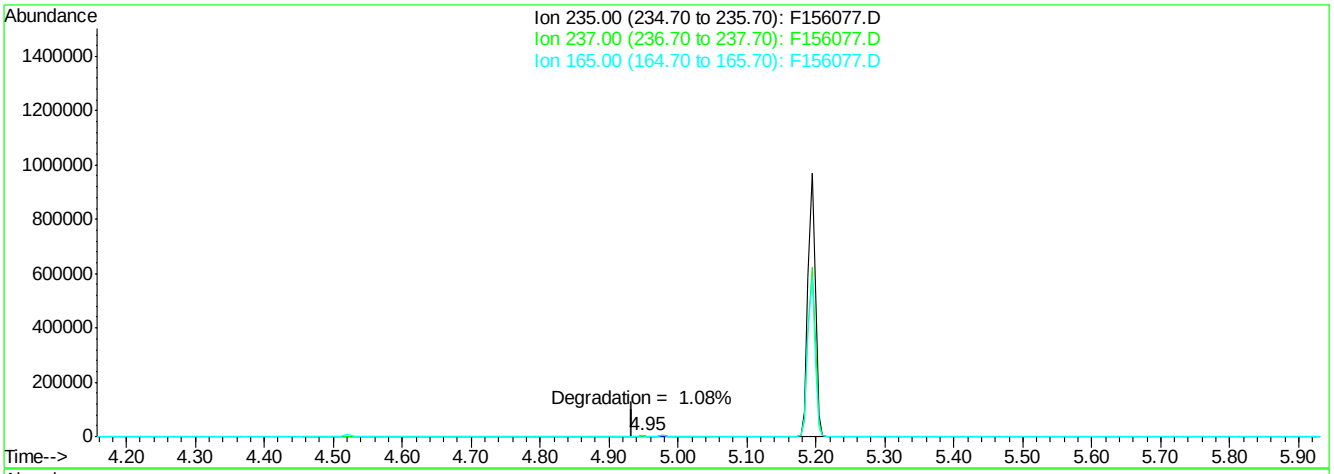
Ion	Exp%	Act%
184.00	100	100
183.00	12.60	11.33
185.00	16.20	13.69
0.00	0.00	0.00

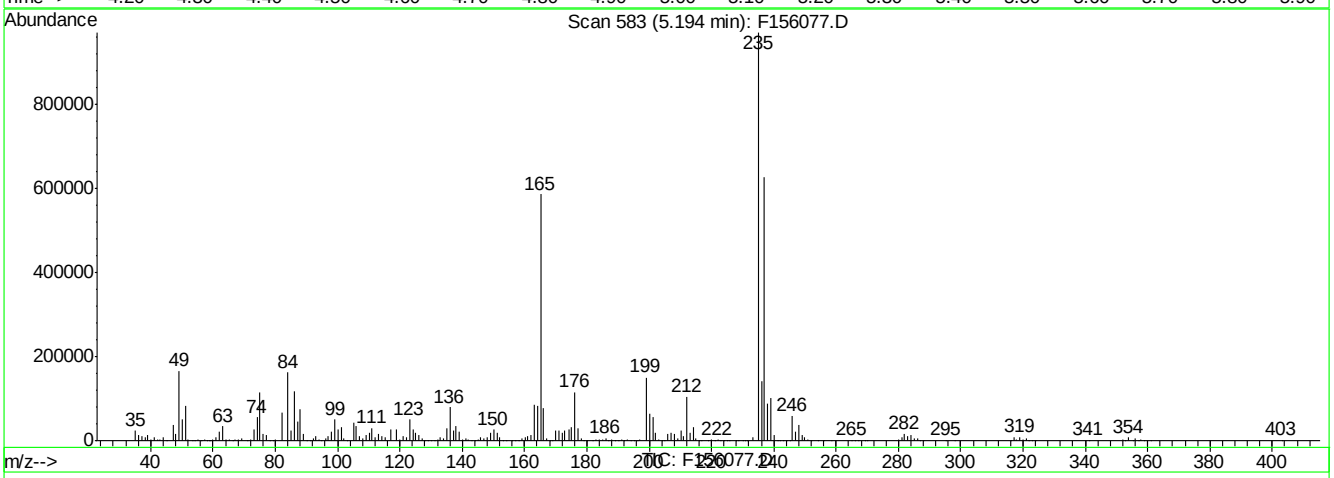
F156077.D DFTPPF.M Wed Apr 06 09:15:05 2016 RT1

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF6565\F156077.D Vial: 1
Acq On : 5 Apr 2016 12:39 pm Operator: linseyk
Sample : dftpp Inst : MSF
Misc : op92661,ef6565 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Apr 5 12:45 2016 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\DFTPPF.M (RTE Integrator)
Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
Last Update : Thu Mar 24 11:46:42 2016
Response via : Single Level Calibration





(3) ddt (t)

5.19min 46.80ppb

response 726795

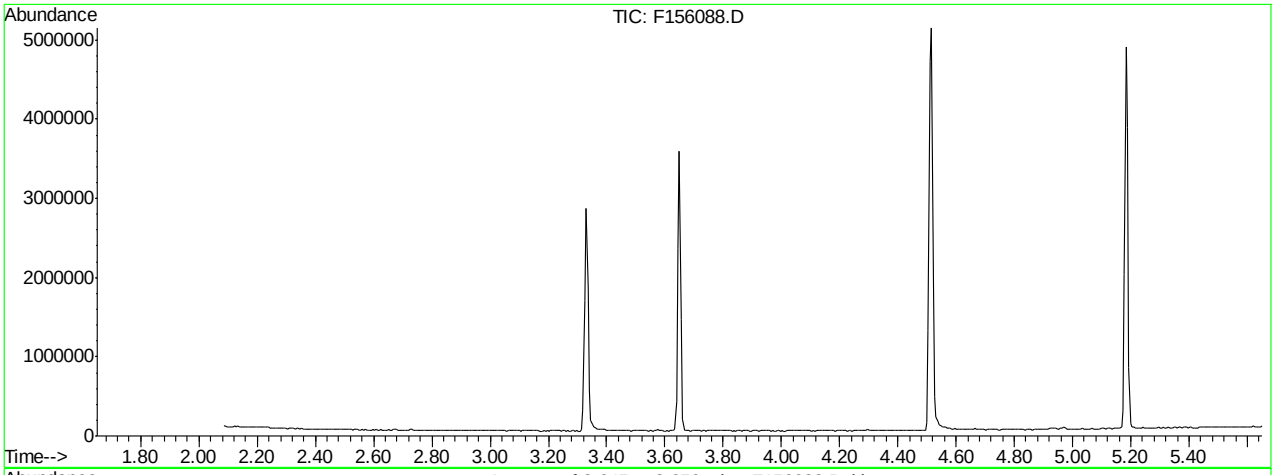
Ion	Exp%	Act%
235.00	100	100
237.00	66.70	64.99
165.00	59.50	59.00
0.00	0.00	0.00

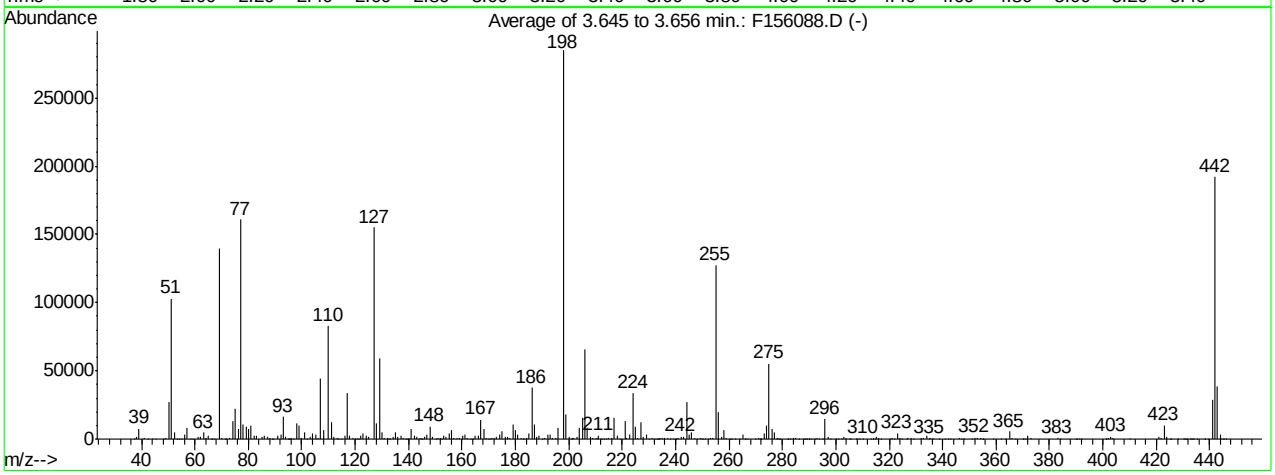
F156077.D DFTPPF.M Wed Apr 06 09:15:11 2016 RT1

SGS ACCUTEST JC21347

DFTPP

Data File : C:\MSDCHEM\1\DATA\EF6567\F156088.D Vial: 1
Acq On : 5 Apr 2016 6:00 pm Operator: ashleyd
Sample : dftpp Inst : MSF
Misc : op92661,ef6567 Multiplr: 1.00
MS Integration Params: RTEINT.P
Method : C:\MSDCHEM\1\METHODS\DFTPPF.M (RTE Integrator)
Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um





AutoFind: Scans 293, 294, 295; Background Corrected with Scan 288

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	36.1	102858	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	49.1	139965	PASS
70	69	0.00	2	0.5	764	PASS
127	198	40	60	54.5	155093	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	284778	PASS
199	198	5	9	6.4	18151	PASS
275	198	10	30	19.4	55232	PASS
365	198	1	100	1.9	5389	PASS
441	443	0.10	100	74.0	28740	PASS
442	198	40	100	67.5	192210	PASS
443	442	17	23	20.2	38818	PASS

F156088.D DFTPPF.M Fri Apr 08 16:29:12 2016 RT1

Average of 3.645 to 3.656 min.: F156088.D
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
37.05	422	52.15	5161	64.10	775	75.10	22161
38.10	1660	53.10	365	65.10	2825	76.15	7083
39.10	7784	53.90	50	66.00	72	77.10	160886
41.10	791	54.95	420	66.15	188	78.10	10930
42.20	116	56.10	3225	67.05	187	79.05	9279
44.10	315	57.05	7993	69.00	139965	80.00	7587
45.10	166	58.05	432	70.10	764	81.05	9790
48.00	164	59.05	112	71.05	136	82.10	2490
49.10	536	61.10	1593	71.80	56	83.00	2187
50.05	27320	62.10	1806	73.10	1142	85.05	1968
51.10	102858	63.10	4851	74.10	13287	86.00	2502

Average of 3.645 to 3.656 min.: F156088.D
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
87.05	1482	96.05	824	107.10	44368	118.90	475
88.00	469	96.95	24	108.05	6868	119.90	214
88.80	71	98.00	11504	110.00	82640	120.15	329
89.10	352	99.05	9765	111.05	12612	120.95	188
91.05	2330	100.00	753	112.00	1505	121.20	122
92.05	2954	101.00	5375	113.05	508	122.05	2348
93.00	16059	102.10	316	113.80	60	123.00	4021
94.00	1312	103.05	1449	114.75	165	124.05	2433
94.90	167	104.05	3890	116.10	2222	125.00	2039
95.10	168	105.10	3106	117.05	33584	127.10	155093
95.40	294	105.95	559	118.00	2268	128.10	11711

Average of 3.645 to 3.656 min.: F156088.D
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
129.00	59208	138.90	160	148.00	9076	158.10	1085
130.00	5206	139.10	111	149.00	1708	159.00	1147
130.95	1065	140.05	562	150.05	425	160.05	2284
132.05	459	141.05	7169	151.20	1208	161.10	3432
132.75	339	142.05	2414	151.70	525	162.10	1175
133.05	211	143.05	1603	152.10	233	163.00	402
134.10	1297	144.10	466	153.05	2092	164.00	363
135.05	4892	144.80	143	154.00	1787	165.05	2418
136.10	1858	145.05	325	155.10	4093	166.00	2135
137.00	2572	146.00	1329	156.10	6531	167.05	14023
137.90	830	147.00	3032	157.10	1044	168.05	7410

Average of 3.645 to 3.656 min.: F156088.D
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
169.10	1190	178.00	707	188.05	1274	200.10	1778
169.90	419	179.00	10755	189.00	2419	200.80	123
170.30	92	180.05	6796	190.00	346	201.40	812
171.05	879	181.00	2999	191.05	1220	201.70	599
172.05	1234	181.95	641	192.05	3064	203.00	1878
173.00	1613	182.80	134	193.00	3588	204.10	8551
174.10	3204	183.10	197	193.90	703	205.10	15920
175.10	5492	184.05	748	194.95	625	206.10	65842
176.10	1566	185.10	4417	196.05	8040	207.05	8584
176.90	864	186.10	37725	198.00	284778	208.00	1758
177.10	1510	187.10	10488	199.00	18151	209.00	492

Average of 3.645 to 3.656 min.: F156088.D
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
210.10	953	219.20	110	231.10	1223	240.00	115
210.50	388	221.05	13237	232.05	215	240.15	312
211.10	2663	221.70	523	232.95	278	241.05	998
211.90	185	223.00	3629	233.20	162	242.00	1829

212.20	77	224.10	33869	233.90	309	243.15	1575
213.00	97	225.05	8704	234.10	696	244.10	27274
214.10	52	225.90	831	235.05	1004	245.10	3432
214.95	570	227.00	12761	235.95	890	246.05	4873
216.00	1212	228.05	2041	237.00	1046	247.00	895
217.00	15507	229.05	3152	238.10	67	247.90	128
218.00	2173	229.80	302	239.00	436	249.05	776

Average of 3.645 to 3.656 min.: F156088.D
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
249.80	93	260.20	61	271.60	96	279.20	82
250.00	170	260.60	51	271.80	113	281.80	53
251.05	287	261.05	277	272.10	296	282.05	238
252.00	206	262.40	59	273.05	4058	283.00	317
253.05	816	263.80	214	274.00	9959	284.00	528
254.00	595	265.00	2944	275.00	55232	285.10	852
255.00	127522	266.00	188	276.10	7485	286.10	109
256.05	19434	266.15	298	277.00	4765	287.90	59
257.10	1335	266.95	140	277.90	393	288.10	52
258.00	6378	270.00	250	278.05	683	288.90	138
259.00	1069	270.95	457	278.80	80	289.20	56

Average of 3.645 to 3.656 min.: F156088.D
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
289.80	53	301.00	99	313.90	306	324.90	65
290.00	73	301.95	365	314.10	390	326.30	62
290.80	63	303.10	1857	314.80	284	327.00	766
291.95	169	304.00	489	315.05	1532	328.10	586
293.10	1244	305.05	133	316.00	843	328.90	67
293.95	289	305.70	50	317.05	160	331.95	697
294.90	108	307.80	194	320.00	62	333.00	508
296.00	14782	308.00	168	321.00	489	334.00	2716
296.95	1866	309.00	63	322.05	240	334.95	423
298.10	353	310.15	240	323.05	4530	335.20	468
300.00	58	312.90	65	324.05	1066	336.00	85

Average of 3.645 to 3.656 min.: F156088.D
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
336.25	148	354.05	1232	370.85	279	402.00	951
338.80	50	355.00	103	372.05	2563	403.05	1765
340.90	420	355.15	177	373.15	594	403.90	605
342.00	80	359.00	78	383.05	684	410.20	64
342.80	77	361.60	78	383.95	230	421.00	1693
346.05	977	363.30	63	389.95	284	421.95	1150
346.95	245	365.00	5389	390.20	100	423.00	10193
348.00	56	365.95	1063	391.05	307	424.10	1875
350.80	55	367.10	57	391.90	238	425.00	218
351.95	1195	370.00	63	401.05	168	425.70	124
353.05	845	370.30	84	401.40	86	428.20	100

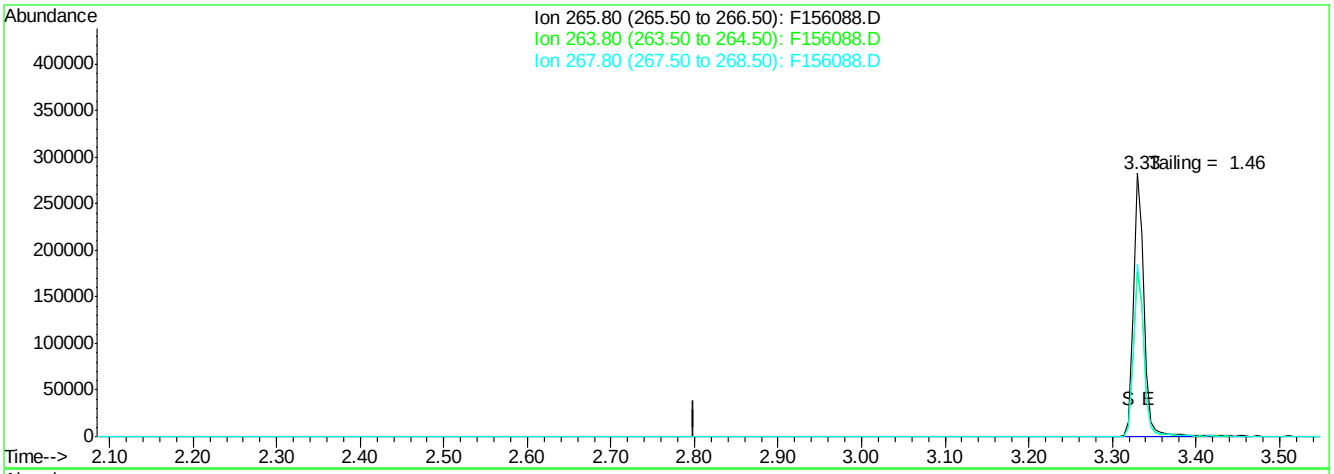
Average of 3.645 to 3.656 min.: F156088.D
dftpp
Modified:subtracted

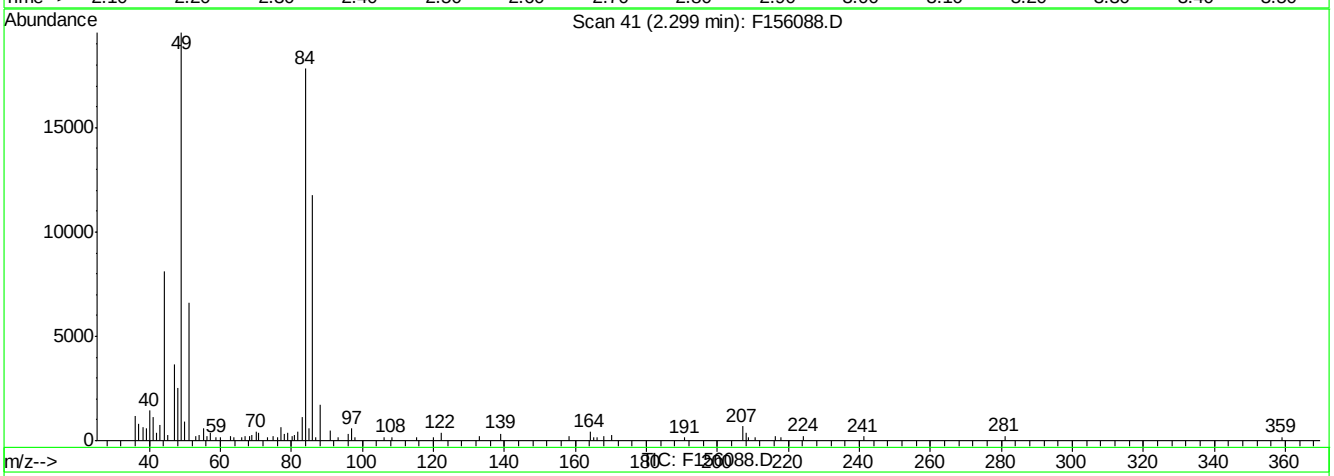
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
430.00	218	439.30	60				
430.50	68	441.05	28740				
431.10	89	442.00	192210				
431.45	133	443.00	38818				
432.65	134	443.90	401				
433.00	76	444.10	3354				
433.40	66	444.90	204				
433.90	59	445.20	184				
435.30	97	446.00	56				
438.10	60						
438.30	53						

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF6567\F156088.D Vial: 1
Acq On : 5 Apr 2016 6:00 pm Operator: ashleyd
Sample : dftpp Inst : MSF
Misc : op92661,ef6567 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Apr 5 18:06 2016 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\DFTPPF.M (RTE Integrator)
Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
Last Update : Thu Mar 24 11:46:42 2016
Response via : Multiple Level Calibration





(1) Pentachlorophenol (t)

2.30min 0.00ppb

response 0

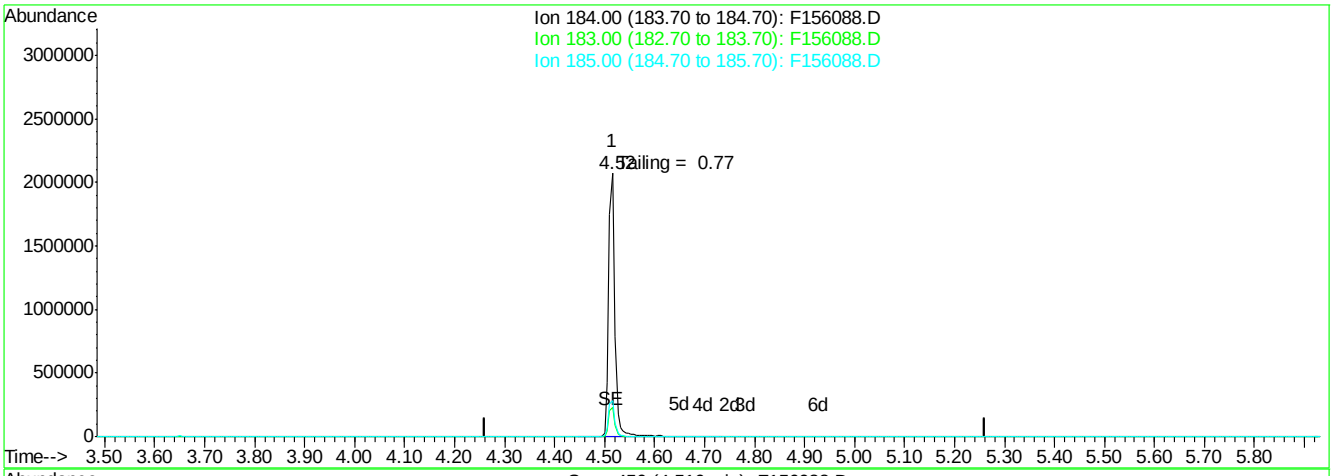
Ion	Exp%	Act%
265.80	100	0.00
263.80	63.00	0.00#
267.80	64.80	0.00#
0.00	0.00	0.00

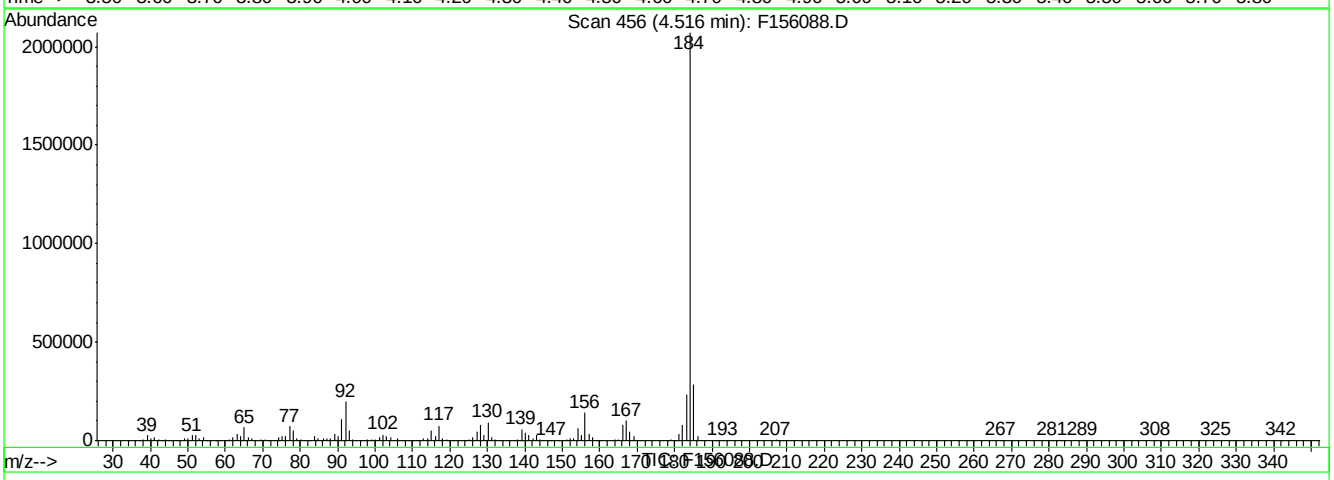
F156088.D DFTPPF.M Tue Apr 05 18:12:48 2016 RT1

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF6567\F156088.D Vial: 1
Acq On : 5 Apr 2016 6:00 pm Operator: ashleyd
Sample : dftpp Inst : MSF
Misc : op92661,ef6567 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Apr 5 18:06 2016 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\DFTPPF.M (RTE Integrator)
Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
Last Update : Thu Mar 24 11:46:42 2016
Response via : Multiple Level Calibration





(2) Benzidine (t)

4.52min 94.58ppb

response 1771832

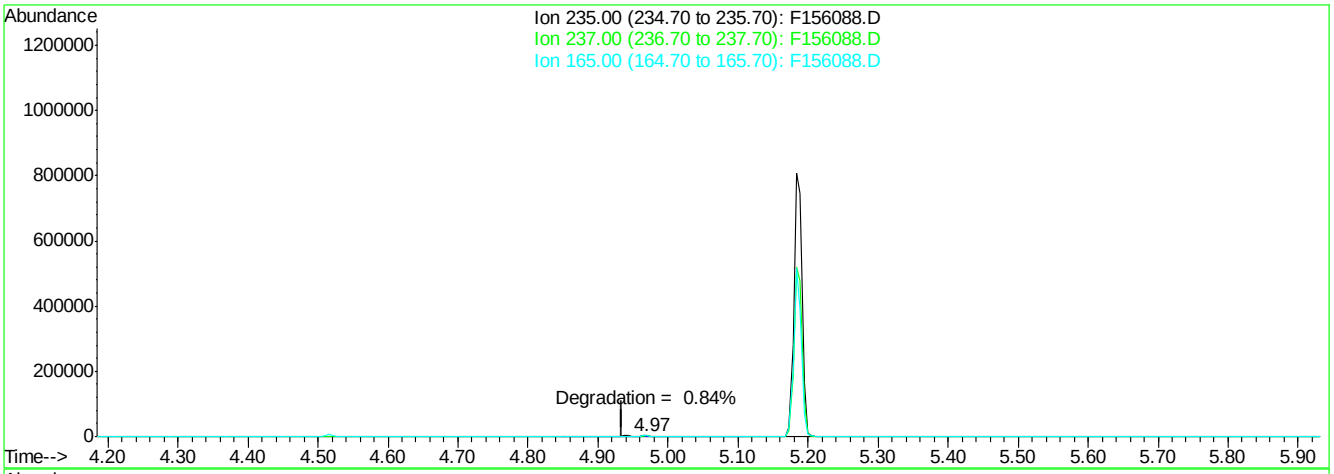
Ion	Exp%	Act%
184.00	100	100
183.00	12.60	11.25
185.00	16.20	14.07
0.00	0.00	0.00

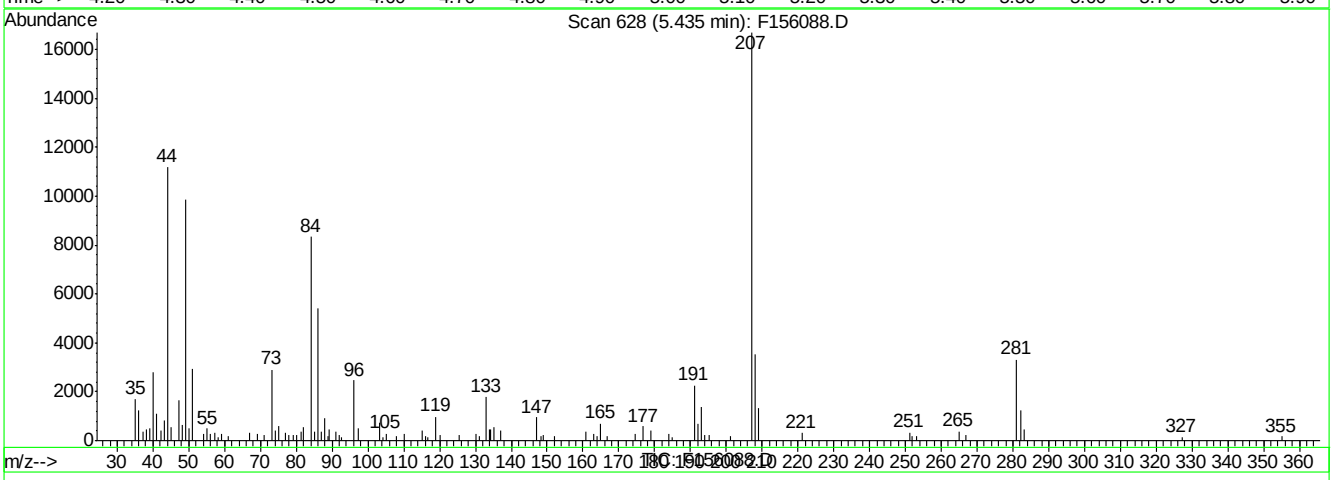
F156088.D DFTPPF.M Tue Apr 05 18:12:55 2016 RT1

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF6567\F156088.D Vial: 1
Acq On : 5 Apr 2016 6:00 pm Operator: ashleyd
Sample : dftpp Inst : MSF
Misc : op92661,ef6567 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Apr 5 18:06 2016 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\DFTPPF.M (RTE Integrator)
Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
Last Update : Thu Mar 24 11:46:42 2016
Response via : Single Level Calibration





(3) ddt (t)

5.43min 0.00ppb

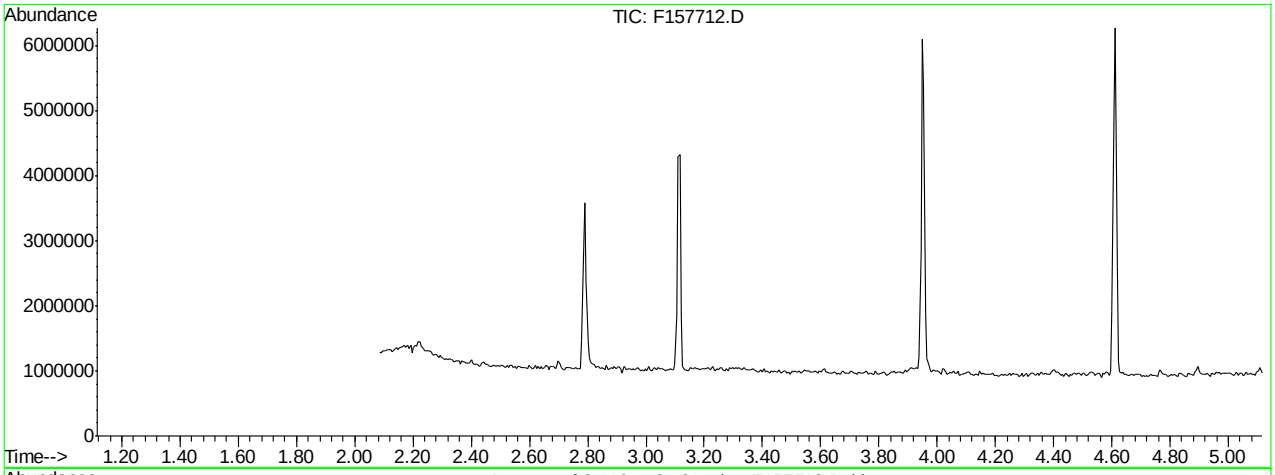
response 0

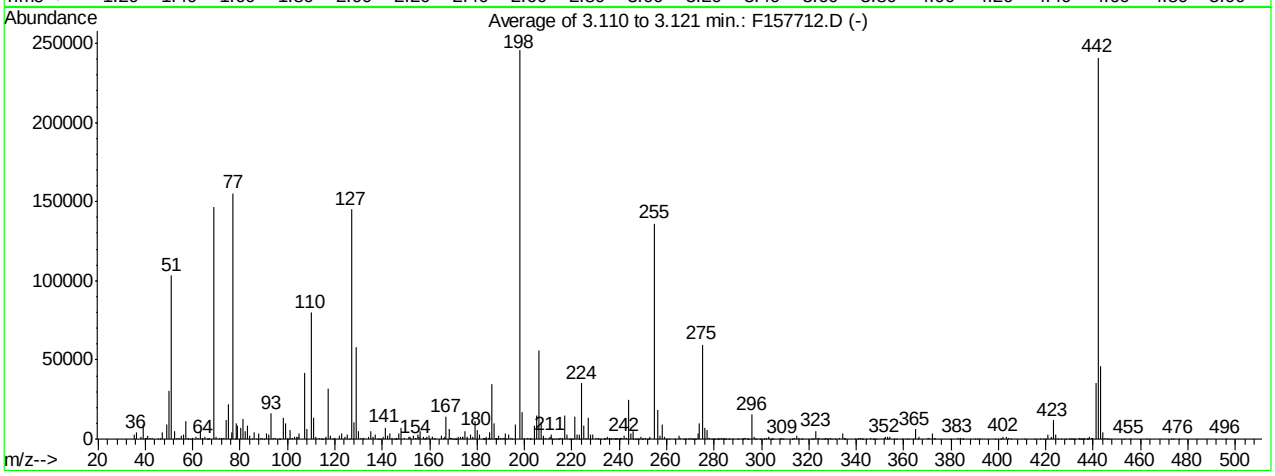
Ion	Exp%	Act%
235.00	100	0.00
237.00	66.70	0.00#
165.00	59.50	0.00#
0.00	0.00	0.00

F156088.D DFTPPF.M Tue Apr 05 18:13:03 2016 RT1

DFTPP

Data File : C:\MSDCHEM\1\DATA\EF6637\F157712.D Vial: 1
Acq On : 2 Jun 2016 9:31 pm Operator: juliusj
Sample : dftpp Inst : MSF
Misc : op93756,ef6637 Multiplr: 1.00
MS Integration Params: RTEINT.P
Method : C:\MSDCHEM\1\METHODS\DFTPPF.M (RTE Integrator)
Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um





AutoFind: Scans 193, 194, 195; Background Corrected with Scan 187

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	42.1	103298	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	59.6	146433	PASS
70	69	0.00	2	0.8	1230	PASS
127	198	40	60	59.1	145074	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	245546	PASS
199	198	5	9	7.0	17264	PASS
275	198	10	30	24.4	59797	PASS
365	198	1	100	2.5	6167	PASS
441	443	0.10	100	77.5	35552	PASS
442	198	40	100	98.1	240960	PASS
443	442	17	23	19.0	45880	PASS

F157712.D DFTPPF.M Fri Jun 03 09:36:21 2016 RT1

Average of 3.110 to 3.121 min.: F157712.D
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
35.10	3064	47.10	4026	58.00	418	67.10	389
36.15	4056	49.05	9450	59.15	164	69.05	146433
38.00	1532	50.10	30397	59.80	478	70.05	1230
39.10	8999	51.10	103298	60.00	1087	71.10	1039
40.05	505	52.10	5191	61.10	1403	72.00	690
40.30	502	53.15	484	62.05	600	72.20	409
41.10	2442	54.05	627	63.10	4836	73.10	807
42.05	1064	55.10	1822	64.20	635	74.05	12026
43.10	705	56.05	3109	65.10	1678	74.95	22147
45.00	75	57.05	11104	66.20	155	76.00	269
46.00	101	57.80	259	66.40	73	76.30	4332

Average of 3.110 to 3.121 min.: F157712.D
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
77.05	155472	86.95	173	96.80	236	107.05	41866
77.90	54	88.00	3298	98.00	13510	108.10	6158
78.15	9686	88.80	487	99.05	9626	110.00	79893
79.00	8223	89.30	241	100.00	444	111.10	13529
80.10	7286	90.30	224	100.40	353	112.15	1508
81.05	12966	91.10	3348	101.00	5932	113.15	732
81.95	5087	92.00	2949	102.05	514	114.10	369
83.05	8399	93.10	16156	103.00	1667	114.50	97
84.00	2432	93.95	566	104.00	1544	114.90	267
85.05	148	95.10	414	104.25	1731	115.90	285
86.00	4032	96.10	198	105.05	3683	116.20	1672

Average of 3.110 to 3.121 min.: F157712.D
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
117.05	32201	128.05	10522	138.30	67	147.10	3521
117.95	2135	129.05	57966	139.00	135	148.00	6950
119.00	129	130.10	4673	140.10	1357	149.10	728
119.30	10	131.05	966	141.05	7323	151.20	1232
119.95	1020	131.85	596	142.00	2324	151.90	1171
122.05	2011	132.25	671	143.00	3500	153.10	2359
123.05	3472	134.00	1287	144.05	523	153.90	386
124.05	1116	135.10	5267	145.10	69	154.15	561
125.05	2559	136.10	1688	145.50	265	155.05	2893
125.90	127	137.05	2555	145.80	460	155.30	1331
127.05	145074	138.10	379	146.05	329	156.05	5059

Average of 3.110 to 3.121 min.: F157712.D
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
157.20	1680	166.20	1348	173.05	1761	182.70	160
157.85	248	167.05	13941	173.90	1376	182.95	704
158.10	704	168.05	6210	174.10	1293	183.20	58
159.00	1161	168.90	520	175.05	4732	183.95	1255
159.90	2233	169.30	502	175.80	1784	184.80	394
161.00	1121	169.50	85	177.00	2693	185.10	3952
161.20	1767	170.00	321	178.00	1313	185.30	329
161.90	302	170.60	70	179.05	11510	186.10	34923
162.20	1061	171.00	352	180.05	5956	187.10	9940
164.95	1874	171.20	156	181.05	2703	187.80	181
166.00	882	172.15	1440	182.20	328	188.10	725

Average of 3.110 to 3.121 min.: F157712.D
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
188.30	126	194.10	461	204.10	8289	213.40	233
188.50	129	194.90	375	205.05	14859	214.20	175
188.80	158	196.05	9377	206.05	55912	214.80	70
189.05	2094	196.30	795	207.10	10493	215.15	655

189.40	50	198.00	245546	208.05	2386	216.15	989
189.95	617	199.00	17264	209.00	728	217.00	14967
191.00	473	199.95	867	210.30	790	218.00	2874
191.20	534	201.20	884	210.60	1217	219.00	272
191.95	3455	201.50	422	211.15	2753	219.50	108
192.15	177	202.20	309	211.70	117	219.90	329
193.10	2862	202.80	784	212.10	358	220.20	220

Average of 3.110 to 3.121 min.: F157712.D
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
221.05	14161	231.05	873	237.75	388	242.90	433
221.95	3178	231.30	76	238.20	84	243.10	1074
222.95	2832	232.15	304	238.40	78	244.10	25158
223.20	282	233.30	262	238.80	188	245.05	3246
224.10	35090	233.80	723	239.20	399	245.70	313
225.10	8702	234.20	165	239.70	178	246.00	4816
225.95	1060	235.05	1149	240.10	326	246.75	342
227.05	13235	235.70	316	240.30	86	247.15	326
228.00	2814	236.00	525	240.80	505	247.90	103
229.00	3195	236.30	347	241.10	529	248.10	230
230.05	525	237.05	1013	242.10	1860	249.00	1165

Average of 3.110 to 3.121 min.: F157712.D
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
249.80	204	259.90	141	270.80	59	279.10	50
250.10	210	260.85	120	271.30	233	279.30	232
251.10	443	263.30	366	271.90	208	280.00	52
252.10	267	265.20	2355	272.20	382	280.50	157
252.60	81	265.90	574	273.05	3832	281.40	119
253.05	1265	266.90	104	273.95	10081	281.70	100
255.05	136104	267.70	201	275.05	59797	282.00	174
256.00	18128	268.00	282	276.15	7185	282.40	103
257.00	2194	269.00	231	277.05	5626	283.10	510
258.00	9208	270.00	391	277.95	795	283.70	122
259.00	1454	270.20	124	278.20	456	283.90	85

Average of 3.110 to 3.121 min.: F157712.D
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
284.20	154	293.00	581	301.30	126	312.80	82
284.80	364	293.90	227	302.15	513	313.20	145
285.15	314	294.20	133	303.00	1782	313.85	538
285.85	257	294.60	86	303.30	414	315.00	2024
286.30	247	296.00	15305	304.10	301	316.05	878
288.00	72	296.90	1739	304.70	144	317.00	92
289.70	214	297.20	233	305.00	148	317.40	259
290.20	54	297.80	260	307.80	197	320.85	175
291.95	171	299.20	138	308.05	606	321.30	147
292.20	127	299.60	132	308.90	195	322.00	96
292.80	586	301.00	136	309.10	168	323.15	5058

Average of 3.110 to 3.121 min.: F157712.D
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
324.00	635	333.00	858	344.10	84	357.10	207
324.20	928	334.10	3766	345.95	902	359.15	226
325.10	289	334.80	87	347.10	92	361.20	289
326.10	379	335.10	441	347.50	55	362.30	88
326.65	328	335.30	140	348.50	117	363.90	91
327.10	690	339.70	104	351.70	394	365.00	6167
327.90	243	340.80	230	352.10	1299	366.00	351
328.20	293	341.10	402	353.00	1211	366.25	1324
329.00	390	341.90	512	353.20	286	370.05	712
329.50	90	342.20	80	354.05	1667	370.95	540
330.90	118	342.90	53	356.00	58	372.10	3919

Average of 3.110 to 3.121 min.: F157712.D

dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
373.00	881	400.90	175	421.10	3161	431.90	131
373.30	58	401.15	163	422.10	1708	432.30	218
379.50	79	402.05	1429	423.10	11827	433.90	78
383.00	901	403.30	1295	424.00	2729	434.30	511
383.90	584	404.20	543	424.95	225	434.60	199
384.80	117	405.20	99	426.70	136	435.10	89
385.00	110	411.10	83	428.60	79	435.30	165
390.10	81	415.10	148	430.00	104	435.70	183
390.90	90	417.60	85	430.50	53	436.00	273
392.05	188	418.90	73	431.00	105	436.65	535
398.50	89	420.00	110	431.20	98	437.25	289

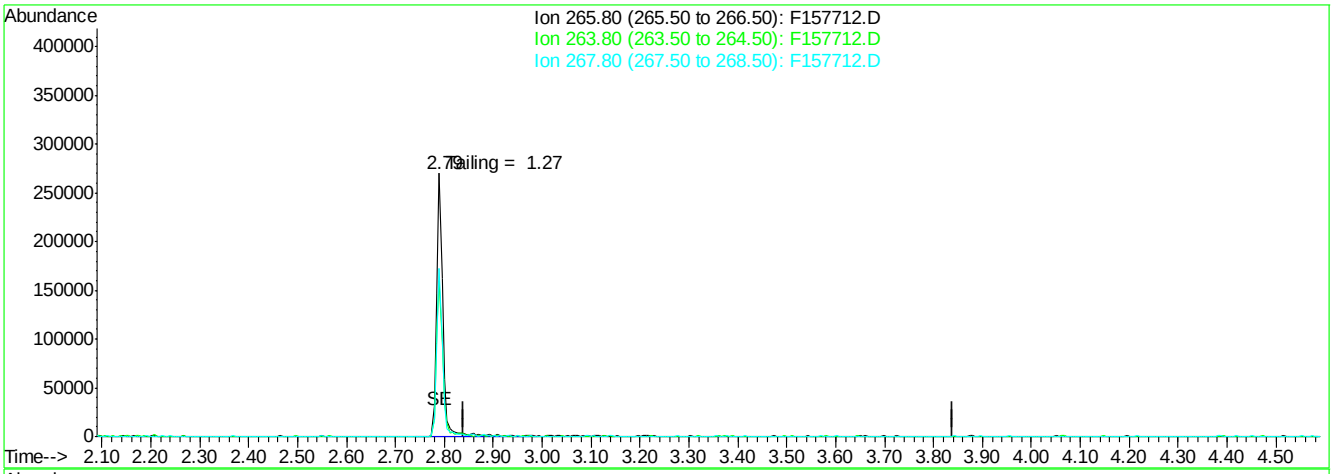
Average of 3.110 to 3.121 min.: F157712.D
dftpp
Modified:subtracted

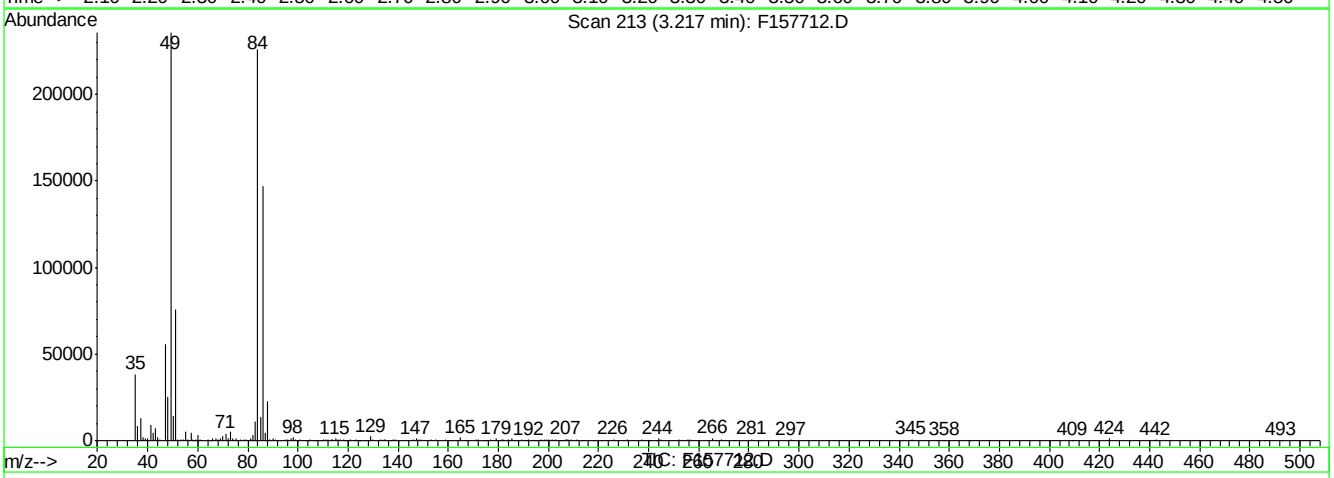
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
437.60	91	446.10	84				
437.80	120	447.00	114				
438.55	1353	453.00	125				
439.20	815	455.20	189				
439.80	479	462.60	97				
441.10	35552	473.00	85				
442.10	240960	473.80	76				
443.10	45880	476.20	195				
444.05	4270	495.90	68				
445.05	651						
445.90	236						

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF6637\F157712.D Vial: 1
Acq On : 2 Jun 2016 9:31 pm Operator: juliusj
Sample : dftpp Inst : MSF
Misc : op93756,ef6637 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jun 2 21:37 2016 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\DFTPPF.M (RTE Integrator)
Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
Last Update : Fri Apr 08 15:27:53 2016
Response via : Multiple Level Calibration





(1) Pentachlorophenol (t)

3.22min 0.65ppb

response 1207

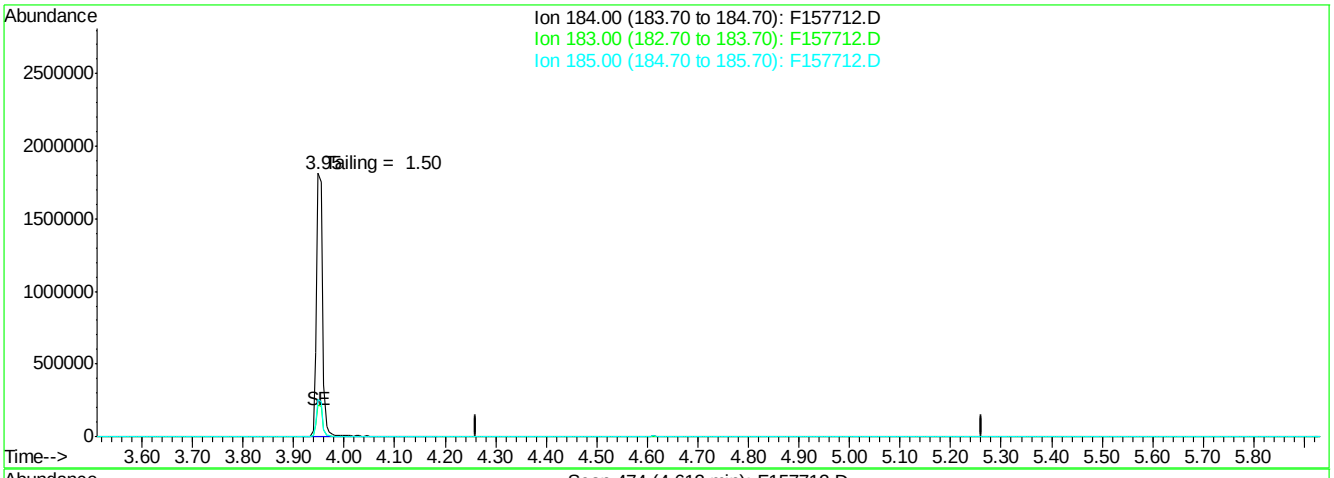
Ion	Exp%	Act%
265.80	100	100
263.80	63.00	0.00#
267.80	64.80	2.30#
0.00	0.00	0.00

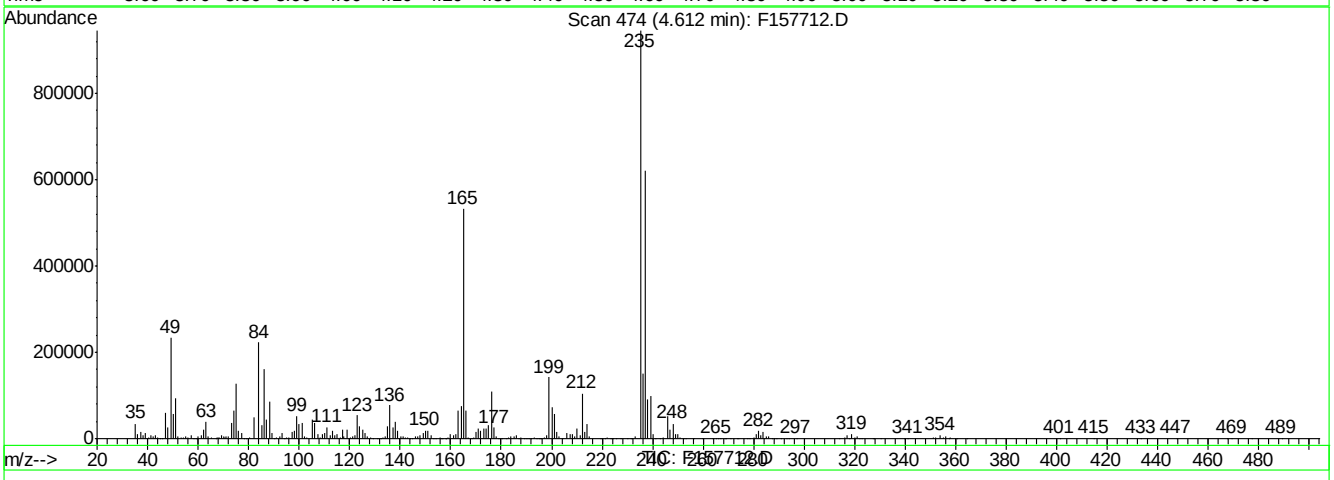
F157712.D DFTPPF.M Fri Jun 03 12:04:40 2016 RT1

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF6637\F157712.D Vial: 1
Acq On : 2 Jun 2016 9:31 pm Operator: juliusj
Sample : dftpp Inst : MSF
Misc : op93756,ef6637 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jun 2 21:37 2016 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\DFTPPF.M (RTE Integrator)
Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
Last Update : Fri Apr 08 15:27:53 2016
Response via : Multiple Level Calibration





(2) Benzidine (t)

4.61min 0.18ppb

response 3451

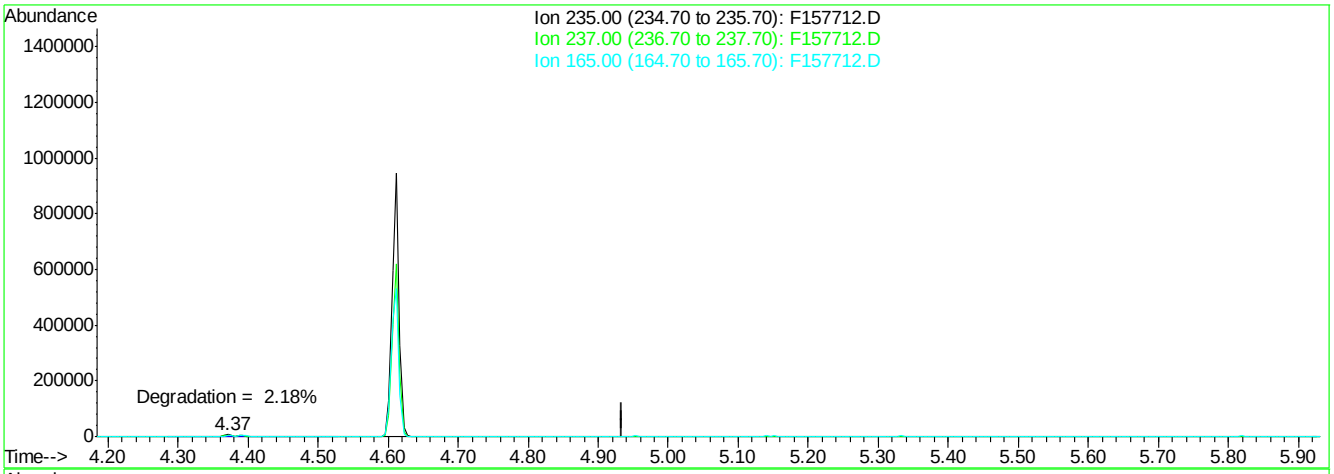
Ion	Exp%	Act%
184.00	100	100
183.00	12.60	34.34
185.00	16.20	101.51#
0.00	0.00	0.00

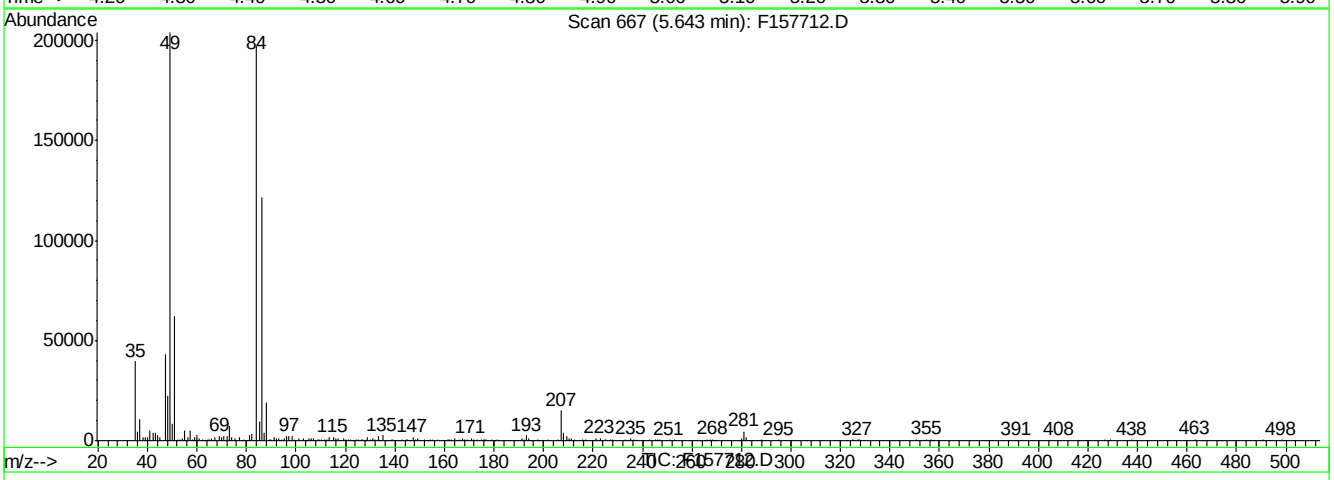
F157712.D DFTPPF.M Fri Jun 03 12:04:46 2016 RT1

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF6637\F157712.D Vial: 1
Acq On : 2 Jun 2016 9:31 pm Operator: juliusj
Sample : dftpp Inst : MSF
Misc : op93756,ef6637 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jun 2 21:37 2016 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\DFTPPF.M (RTE Integrator)
Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
Last Update : Fri Apr 08 15:27:53 2016
Response via : Single Level Calibration





(3) ddt (t)

5.64min 0.07ppb

response 1093

Ion	Exp%	Act%
235.00	100	100
237.00	66.70	0.00#
165.00	59.50	136.41#
0.00	0.00	0.00

F157712.D DFTPPF.M Fri Jun 03 12:04:53 2016 RT1

7.5.16.3

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P2606\
Data File : 2p59746.D
Acq On : 2 Jun 2016 10:43 am
Operator : robertl1
Sample : ICC2606-50
Misc : op94078,e2p2606
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 02 11:11:58 2016
Quant Method : C:\MSDCHEM\1\METHODS\M2P2606.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu Jun 02 11:11:08 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.905	152	397552	40.00	ppm	0.00
24) Naphthalene-d8	5.965	136	1376991	40.00	ppm	0.00
47) Acenaphthene-d10	7.409	164	773619	40.00	ppm	0.00
69) Phenanthrene-d10	8.757	188	1355192	40.00	ppm	0.00
83) Chrysene-d12	12.132	240	1370742	40.00	ppm	0.00
91) Perylene-d12	14.143	264	1279100	40.00	ppm	0.00
101) 1,4-Dichlorobenzene-d4a	4.905	152	397552	40.00	ppm	0.00
103) Naphthalene-d8a	5.965	136	1376991	40.00	ppm	0.00
105) Acenaphthene-d10a	7.409	164	773619	40.00	ppm	0.00
108) Chrysene-d12a	12.132	240	1370742	40.00	ppm	0.00
110) Phenanthrene-d10a	8.757	188	1355192	40.00	ppm	0.00
113) Chrysene-d12b	12.132	240	1370742	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	3.788	112	767364	50.00	ppm	0.00
Spiked Amount 50.000	Range 11 - 58		Recovery = 100.00%#			
8) Phenol-d5	4.601	99	885113	50.00	ppm	0.00
Spiked Amount 50.000	Range 10 - 59		Recovery = 100.00%#			
25) Nitrobenzene-d5	5.371	82	611809	50.00	ppm	0.00
Spiked Amount 50.000	Range 19 - 61		Recovery = 100.00%#			
51) 2-Fluorobiphenyl	6.852	172	1176185	50.00	ppm	0.00
Spiked Amount 50.000	Range 21 - 58		Recovery = 100.00%#			
73) 2,4,6-Tribromophenol	8.083	330	177085	50.00	ppm	0.00
Spiked Amount 50.000	Range 12 - 68		Recovery = 100.00%#			
85) Terphenyl-d14	10.666	244	1385009	50.00	ppm	0.00
Spiked Amount 50.000	Range 16 - 65		Recovery = 100.00%#			
111) 1-chlorooctadecane	0.000	57	0	0.00	ppm	
112) O-terphenyl	0.000	230	0	0.00	ppm	
Target Compounds						Qvalue
2) 1,4-Dioxane	2.253	88	351259	50.00	ppm	95
3) Pyridine	2.579	79	834352	50.00	ppm	76
4) N-Nitrosodimethylamine	2.547	74	487784	50.00	ppm #	28
6) Indene	5.119	116	939639	50.00	ppm	97
7) Cumene	4.237	105	1691072	50.00	ppm	97
9) Phenol	4.611	94	960345	50.00	ppm	87
10) Aniline	4.633	93	1004114	50.00	ppm	91
11) bis(2-Chloroethyl)ether	4.692	93	573525	50.00	ppm	92
12) 2-Chlorophenol	4.729	128	681264	50.00	ppm	92
13) Decane	4.777	57	901010	50.00	ppm	86
14) 1,3-Dichlorobenzene	4.857	146	775970	50.00	ppm	98
15) 1,4-Dichlorobenzene	4.922	146	739596	50.00	ppm	98
16) Benzyl alcohol	5.029	108	402634	50.00	ppm	92
17) 1,2-Dichlorobenzene	5.045	146	676373	50.00	ppm	96
18) Acetophenone	5.248	105	685381	50.00	ppm	98
19) 2-Methylphenol	5.114	108	523604	50.00	ppm	94
20) 2,2'-oxybis(1-Chloropr...	5.141	121	186235	50.00	ppm #	58
21) 3&4-Methylphenol	5.242	108	526091	50.00	ppm	96
22) n-Nitroso-di-n-propyla...	5.253	70	344188	50.00	ppm	73

SGS ACCUTEST JC21347

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P2606\
Data File : 2p59746.D
Acq On : 2 Jun 2016 10:43 am
Operator : robertl1
Sample : ICC2606-50
Misc : op94078,e2p2606
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 02 11:11:58 2016
Quant Method : C:\MSDCHEM\1\METHODS\M2P2606.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu Jun 02 11:11:08 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
23) Hexachloroethane	5.328	201	249174	50.00 ppm	#	80
26) Nitrobenzene	5.387	77	570342	50.00 ppm		92
27) Quinoline	6.264	129	1242860	50.00 ppm		95
28) Isophorone	5.590	82	1094355	50.00 ppm		86
29) 2-Nitrophenol	5.649	139	350052	50.00 ppm		95
30) 2,4-Dimethylphenol	5.686	107	573990	50.00 ppm		96
31) Benzoic acid	5.788	105	477162	50.00 ppm		89
32) bis(2-Chloroethoxy)met...	5.767	93	602414	50.00 ppm		98
33) 2,4-Dichlorophenol	5.847	162	535723	50.00 ppm		92
34) 2,6-Dichlorophenol	6.034	162	473499	50.00 ppm		99
35) 1,3,5-Trichlorobenzene	5.654	180	581793	50.00 ppm		97
36) 1,2,4-Trichlorobenzene	5.916	180	561096	50.00 ppm		93
37) 1,2,3-Trichlorobenzene	6.098	180	518175	50.00 ppm		91
38) Naphthalene	5.981	128	1643356	50.00 ppm		99
39) 4-Chloroaniline	6.029	127	684658	50.00 ppm		97
40) 2,3-Dichloroaniline	6.783	161	583726	50.00 ppm		94
41) Caprolactam	6.339	113	205474	50.00 ppm		86
42) Hexachlorobutadiene	6.082	225	306144	50.00 ppm		98
43) 4-Chloro-3-methylphenol	6.425	107	522962	50.00 ppm		95
44) 2-Methylnaphthalene	6.553	141	992708	50.00 ppm		95
45) 1-Methylnaphthalene	6.633	141	997840	50.00 ppm		96
46) Dimethylnaphthalene	7.066	156	1001773	50.00 ppm		98
48) Hexachlorocyclopentadiene	6.681	237	725054	100.00 ppm		95
49) 2,4,6-Trichlorophenol	6.783	196	359590	50.00 ppm		99
50) 2,4,5-Trichlorophenol	6.815	196	395557	50.00 ppm		99
52) 2-Chloronaphthalene	6.954	162	1008371	50.00 ppm		98
53) Biphenyl	6.938	154	1323865	50.00 ppm		96
54) 2-Nitroaniline	7.040	65	349852	50.00 ppm		86
55) Dimethylphthalate	7.189	163	1211582	50.00 ppm		99
56) Acenaphthylene	7.296	152	1748656	50.00 ppm		99
57) 2,6-Dinitrotoluene	7.237	165	282135	50.00 ppm		85
58) 3-Nitroaniline	7.377	138	348091	50.00 ppm		96
59) Acenaphthene	7.435	153	1035383	50.00 ppm		99
60) 2,4-Dinitrophenol	7.462	184	331635	100.00 ppm	#	100
61) 4-Nitrophenol	7.505	109	169669	50.00 ppm		96
62) Dibenzofuran	7.580	168	1398944	50.00 ppm		94
63) 2,4-Dinitrotoluene	7.569	165	368290	50.00 ppm		96
64) 2,3,4,6-Tetrachlorophenol	7.681	232	350329	50.00 ppm		87
65) Diethylphthalate	7.778	149	1189150	50.00 ppm		93
66) Fluorene	7.874	166	1110709	50.00 ppm		97
67) 4-Chlorophenyl-phenyle...	7.869	204	523462	50.00 ppm		100
68) 4-Nitroaniline	7.895	138	338959	50.00 ppm		89
70) 4,6-Dinitro-2-methylph...	7.917	198	238468	50.00 ppm		82
71) n-Nitrosodiphenylamine	7.976	169	831686	50.00 ppm		98
72) 1,2-Diphenylhydrazine	8.013	77	1054776	50.00 ppm		86
74) 4-Bromophenyl-phenylether	8.313	248	367433	50.00 ppm		96
75) Hexachlorobenzene	8.366	284	385677	50.00 ppm		88
76) Pentachlorophenol	8.559	266	578024	100.00 ppm		98
77) Phenanthrene	8.783	178	1688503	50.00 ppm		98
78) Anthracene	8.837	178	1701092	50.00 ppm		99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P2606\
Data File : 2p59746.D
Acq On : 2 Jun 2016 10:43 am
Operator : robertl1
Sample : ICC2606-50
Misc : op94078,e2p2606
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 02 11:11:58 2016
Quant Method : C:\MSDCHEM\1\METHODS\M2P2606.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu Jun 02 11:11:08 2016
Response via : Initial Calibration

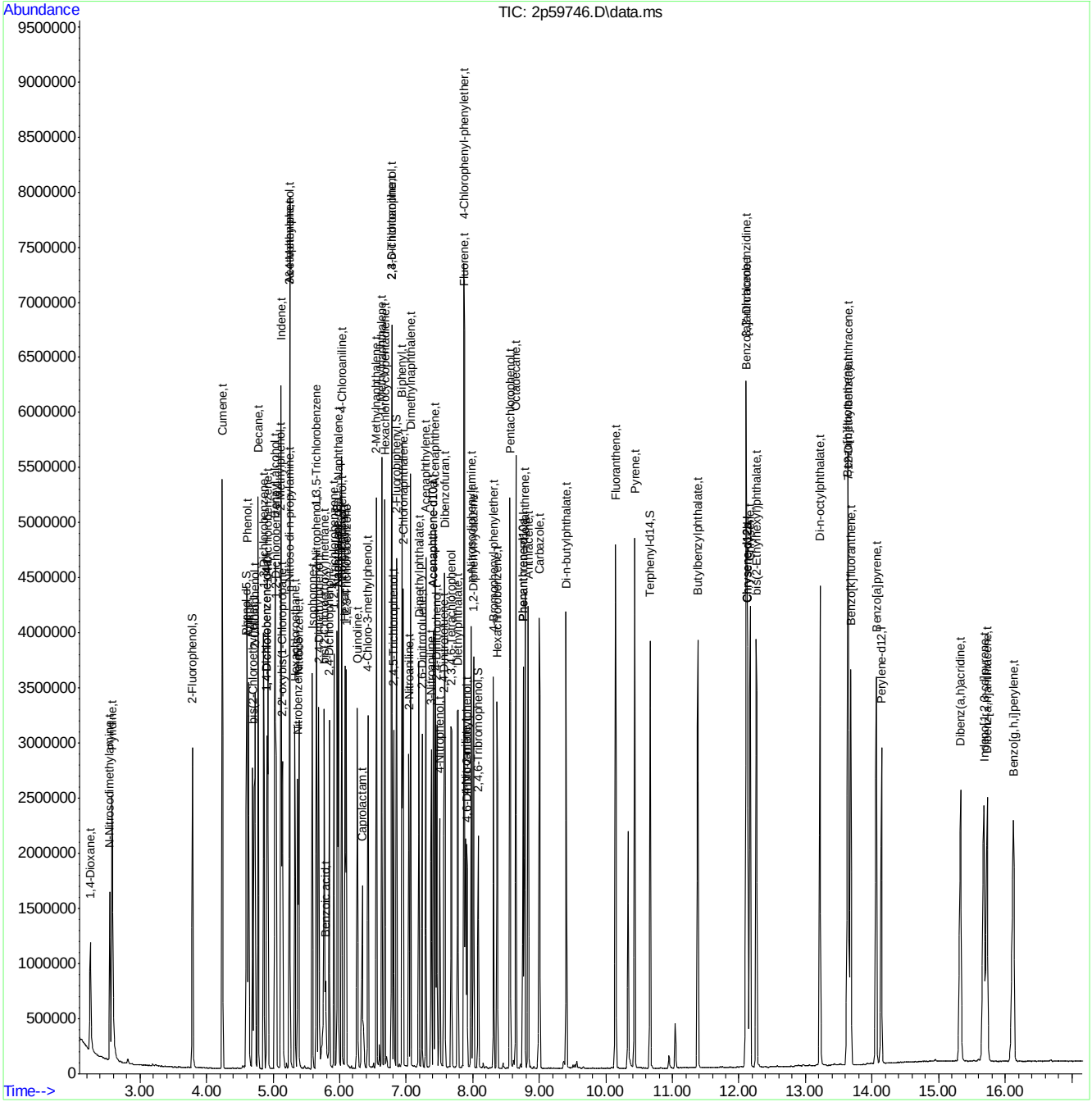
	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
79)	Carbazole	9.003	167	1704726	50.00	ppm		97
80)	Di-n-butylphthalate	9.409	149	2273823	50.00	ppm		98
81)	Fluoranthene	10.147	202	2215771	50.00	ppm		92
82)	Octadecane	8.650	43	921046	50.00	ppm	#	74
84)	Pyrene	10.436	202	2215695	50.00	ppm		99
86)	Butylbenzylphthalate	11.383	149	1074273	50.00	ppm		89
87)	Benzo[a]anthracene	12.115	228	1978216	50.00	ppm		100
88)	3,3'-Dichlorobenzidine	12.110	252	746274	50.00	ppm		95
89)	Chrysene	12.169	228	1799008	50.00	ppm		99
90)	bis(2-Ethylhexyl)phtha...	12.260	149	1272820	50.00	ppm		99
92)	Di-n-octylphthalate	13.217	149	2531761	50.00	ppm		97
93)	Benzo[b]fluoranthene	13.634	252	2004563	50.00	ppm		92
94)	Benzo[k]fluoranthene	13.683	252	1750728	50.00	ppm		88
95)	Benzo[a]pyrene	14.068	252	1841946	50.00	ppm		92
96)	Indeno[1,2,3-cd]pyrene	15.683	276	1725600	50.00	ppm		83
97)	Dibenz(a,h)acridine	15.330	279	1597498	50.00	ppm		93
98)	Dibenz[a,h]anthracene	15.731	278	1679576	50.00	ppm		90
99)	7,12-Dimethylbenz(a)an...	13.645	256	891602	50.00	ppm		93
100)	Benzo[g,h,i]perylene	16.127	276	1793928	50.00	ppm		86

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P2606\
Data File : 2p59746.D
Acq On : 2 Jun 2016 10:43 am
Operator : robertl1
Sample : ICC2606-50
Misc : op94078,e2p2606
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 02 11:11:58 2016
Quant Method : C:\MSDCHEM\1\METHODS\M2P2606.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu Jun 02 11:11:08 2016
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P2606\
Data File : 2p59747.D
Acq On : 2 Jun 2016 11:17 am
Operator : robertl1
Sample : IC2606-2
Misc : op94078,e2p2606
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 02 11:40:27 2016
Quant Method : C:\MSDCHEM\1\METHODS\M2P2606.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu Jun 02 11:39:30 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.906	152	447421	40.00	ppm	0.00
24) Naphthalene-d8	5.959	136	1515745	40.00	ppm	0.00
47) Acenaphthene-d10	7.409	164	831405	40.00	ppm	0.00
69) Phenanthrene-d10	8.757	188	1404938	40.00	ppm	0.00
83) Chrysene-d12	12.126	240	1407049	40.00	ppm	0.00
91) Perylene-d12	14.137	264	1220271	40.00	ppm	0.00
101) 1,4-Dichlorobenzene-d4a	4.906	152	447421	40.00	ppm	0.00
103) Naphthalene-d8a	5.959	136	1515745	40.00	ppm	0.00
105) Acenaphthene-d10a	7.409	164	831405	40.00	ppm	0.00
108) Chrysene-d12a	12.126	240	1407049	40.00	ppm	0.00
110) Phenanthrene-d10a	8.757	188	1404938	40.00	ppm	0.00
113) Chrysene-d12b	12.126	240	1407049	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	3.788	112	34118	1.99	ppm	0.00
Spiked Amount 50.000	Range 11 - 58		Recovery	=	3.98%#	
8) Phenol-d5	4.590	99	42494	2.06	ppm	-0.01
Spiked Amount 50.000	Range 10 - 59		Recovery	=	4.12%#	
25) Nitrobenzene-d5	5.366	82	31896	2.17	ppm	0.00
Spiked Amount 50.000	Range 19 - 61		Recovery	=	4.34%#	
51) 2-Fluorobiphenyl	6.853	172	65146	2.25	ppm	0.00
Spiked Amount 50.000	Range 21 - 58		Recovery	=	4.50%#	
73) 2,4,6-Tribromophenol	8.077	330	7908	2.07	ppm	0.00
Spiked Amount 50.000	Range 12 - 68		Recovery	=	4.14%#	
85) Terphenyl-d14	10.666	244	59331	2.04	ppm	0.00
Spiked Amount 50.000	Range 16 - 65		Recovery	=	4.08%#	
111) 1-chlorooctadecane	0.000	57	0	0.00	ppm	
112) O-terphenyl	0.000	230	0	0.00	ppm	
Target Compounds						Qvalue
2) 1,4-Dioxane	2.247	88	14347	1.90	ppm	94
3) Pyridine	2.590	79	34827	1.92	ppm	71
4) N-Nitrosodimethylamine	2.547	74	18352	1.82	ppm #	41
6) Indene	5.120	116	57346	2.30	ppm	95
7) Cumene	4.232	105	79507	2.04	ppm	98
9) Phenol	4.601	94	42806	1.99	ppm	95
10) Aniline	4.628	93	51373	2.13	ppm	92
11) bis(2-Chloroethyl)ether	4.686	93	30319	2.16	ppm	96
12) 2-Chlorophenol	4.724	128	36315	2.17	ppm	90
13) Decane	4.772	57	52141	2.25	ppm	85
14) 1,3-Dichlorobenzene	4.858	146	41164	2.16	ppm	99
15) 1,4-Dichlorobenzene	4.922	146	39324	2.17	ppm	99
16) Benzyl alcohol	5.018	108	20360	2.12	ppm	96
17) 1,2-Dichlorobenzene	5.045	146	39364	2.26	ppm	90
18) Acetophenone	5.237	105	42276	2.31	ppm	97
19) 2-Methylphenol	5.109	108	29568	2.23	ppm	91
20) 2,2'-oxybis(1-Chloropr...	5.136	121	10709	2.24	ppm #	78
21) 3&4-Methylphenol	5.237	108	30945	2.27	ppm	97
22) n-Nitroso-di-n-propyla...	5.237	70	21210	2.31	ppm	78

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P2606\
Data File : 2p59747.D
Acq On : 2 Jun 2016 11:17 am
Operator : robertl1
Sample : IC2606-2
Misc : op94078,e2p2606
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 02 11:40:27 2016
Quant Method : C:\MSDCHEM\1\METHODS\M2P2606.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu Jun 02 11:39:30 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
23) Hexachloroethane	5.328	201	13629	2.19	ppm	#	72
26) Nitrobenzene	5.376	77	29892	2.17	ppm		98
27) Quinoline	6.254	129	60369	2.10	ppm		93
28) Isophorone	5.580	82	53672	2.11	ppm		85
29) 2-Nitrophenol	5.644	139	16248	2.05	ppm		92
30) 2,4-Dimethylphenol	5.676	107	31962	2.23	ppm		95
31) Benzoic acid	5.713	105	16632	1.77	ppm		88
32) bis(2-Chloroethoxy)met...	5.761	93	32107	2.19	ppm		99
33) 2,4-Dichlorophenol	5.836	162	27310	2.15	ppm		91
34) 2,6-Dichlorophenol	6.029	162	25757	2.21	ppm		96
35) 1,3,5-Trichlorobenzene	5.655	180	31789	2.22	ppm		94
36) 1,2,4-Trichlorobenzene	5.911	180	30472	2.21	ppm		98
37) 1,2,3-Trichlorobenzene	6.093	180	28307	2.21	ppm		88
38) Naphthalene	5.975	128	90766	2.23	ppm		99
39) 4-Chloroaniline	6.024	127	37906	2.23	ppm		93
40) 2,3-Dichloroaniline	6.778	161	34721	2.30	ppm		91
41) Caprolactam	6.291	113	9391	2.04	ppm		95
42) Hexachlorobutadiene	6.082	225	16097	2.18	ppm		96
43) 4-Chloro-3-methylphenol	6.414	107	26433	2.14	ppm		93
44) 2-Methylnaphthalene	6.548	141	51510	2.16	ppm		96
45) 1-Methylnaphthalene	6.628	141	52081	2.17	ppm		97
46) Dimethylnaphthalene	7.061	156	53651	2.20	ppm		94
48) Hexachlorocyclopentadiene	6.676	237	33760	4.16	ppm		95
49) 2,4,6-Trichlorophenol	6.778	196	19154	2.21	ppm		92
50) 2,4,5-Trichlorophenol	6.804	196	19221	2.12	ppm		99
52) 2-Chloronaphthalene	6.949	162	58674	2.30	ppm		99
53) Biphenyl	6.933	154	74349	2.27	ppm		98
54) 2-Nitroaniline	7.029	65	16031	2.06	ppm		98
55) Dimethylphthalate	7.184	163	60650	2.15	ppm		98
56) Acenaphthylene	7.291	152	92079	2.20	ppm		98
57) 2,6-Dinitrotoluene	7.232	165	12829	2.06	ppm		82
58) 3-Nitroaniline	7.366	138	16376	2.09	ppm		87
59) Acenaphthene	7.436	153	53342	2.18	ppm		98
60) 2,4-Dinitrophenol	7.452	184	7440	2.74	ppm	#	100
61) 4-Nitrophenol	7.494	109	7013	1.96	ppm	#	75
62) Dibenzofuran	7.575	168	75876	2.23	ppm		91
63) 2,4-Dinitrotoluene	7.564	165	16377	2.03	ppm		92
64) 2,3,4,6-Tetrachlorophenol	7.676	232	16961	2.12	ppm		88
65) Diethylphthalate	7.767	149	58980	2.14	ppm		93
66) Fluorene	7.869	166	64281	2.30	ppm		99
67) 4-Chlorophenyl-phenyle...	7.869	204	29309	2.26	ppm		98
68) 4-Nitroaniline	7.880	138	15059	2.03	ppm		84
70) 4,6-Dinitro-2-methylph...	7.906	198	6267	1.55	ppm		80
71) n-Nitrosodiphenylamine	7.970	169	43549	2.23	ppm		94
72) 1,2-Diphenylhydrazine	8.008	77	54091	2.21	ppm		89
74) 4-Bromophenyl-phenylether	8.313	248	17489	2.14	ppm		91
75) Hexachlorobenzene	8.366	284	19497	2.20	ppm		80
76) Pentachlorophenol	8.553	266	23468	3.96	ppm		96
77) Phenanthrene	8.778	178	86536	2.21	ppm		97
78) Anthracene	8.832	178	87687	2.22	ppm		98

SGS ACCUTEST JC21347

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P2606\
Data File : 2p59747.D
Acq On : 2 Jun 2016 11:17 am
Operator : robertl1
Sample : IC2606-2
Misc : op94078,e2p2606
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 02 11:40:27 2016
Quant Method : C:\MSDCHEM\1\METHODS\M2P2606.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu Jun 02 11:39:30 2016
Response via : Initial Calibration

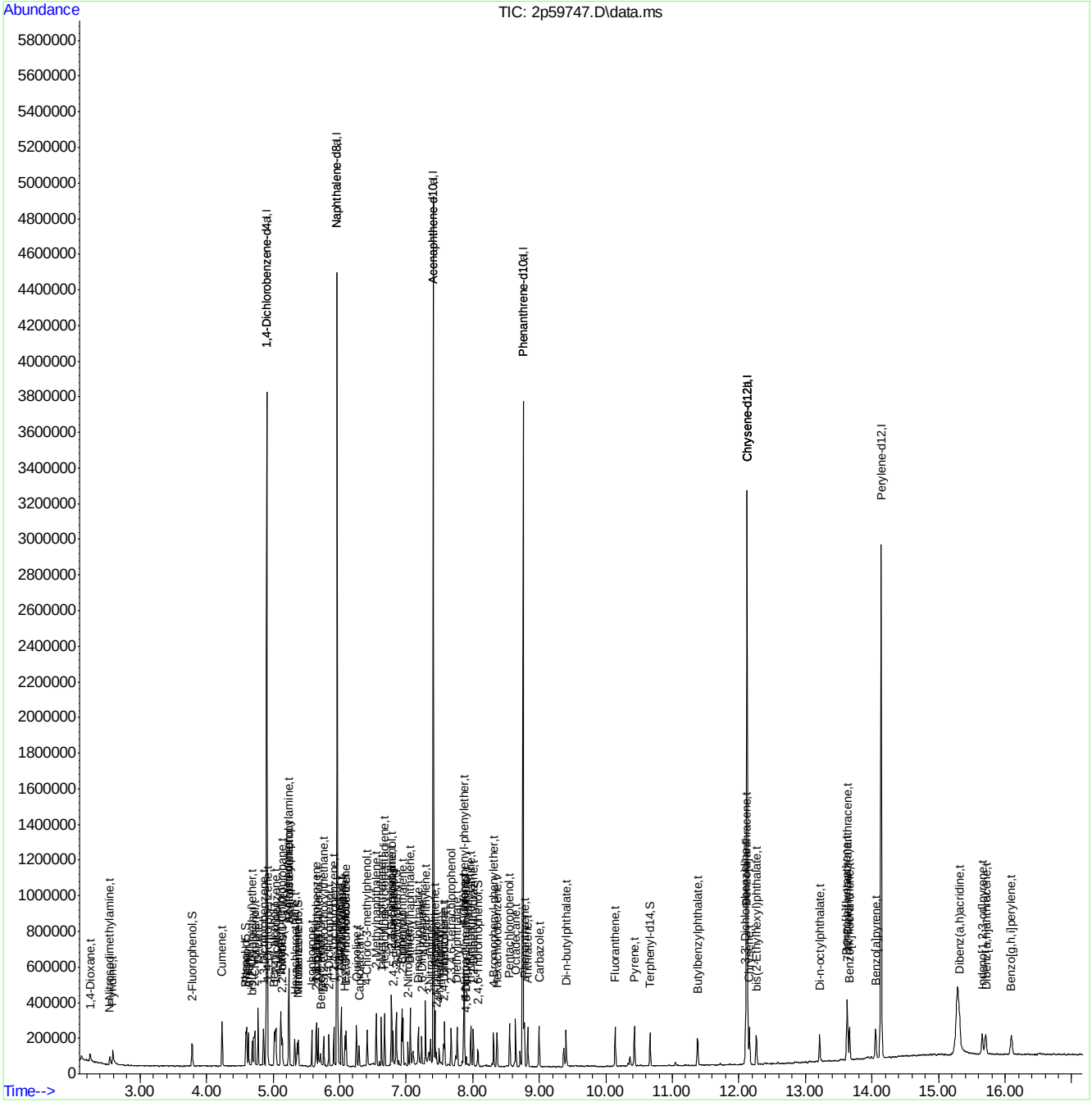
	Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
79)	Carbazole	8.997	167	84513	2.18 ppm	98
80)	Di-n-butylphthalate	9.404	149	95994	2.02 ppm	98
81)	Fluoranthene	10.142	202	95648	2.04 ppm	92
82)	Octadecane	8.644	43	44086	2.14 ppm	78
84)	Pyrene	10.431	202	100530	2.10 ppm	98
86)	Butylbenzylphthalate	11.378	149	40530	1.92 ppm	90
87)	Benzo[a]anthracene	12.105	228	92741	2.13 ppm	95
88)	3,3'-Dichlorobenzidine	12.100	252	29747	1.97 ppm	93
89)	Chrysene	12.158	228	84434	2.13 ppm	99
90)	bis(2-Ethylhexyl)phtha...	12.260	149	48911	1.93 ppm	98
92)	Di-n-octylphthalate	13.212	149	84208	1.86 ppm	99
93)	Benzo[b]fluoranthene	13.624	252	87577	2.14 ppm	93
94)	Benzo[k]fluoranthene	13.661	252	77606	2.15 ppm	90
95)	Benzo[a]pyrene	14.057	252	75037	2.07 ppm	89
96)	Indeno[1,2,3-cd]pyrene	15.656	276	66748	2.01 ppm	92
97)	Dibenz(a,h)acridine	15.320	279	66202	2.08 ppm	91
98)	Dibenz[a,h]anthracene	15.710	278	66781	2.04 ppm	91
99)	7,12-Dimethylbenz(a)an...	13.629	256	39207	2.14 ppm	92
100)	Benzo[g,h,i]perylene	16.095	276	70073	2.02 ppm	83

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P2606\
Data File : 2p59747.D
Acq On : 2 Jun 2016 11:17 am
Operator : robertl1
Sample : IC2606-2
Misc : op94078,e2p2606
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 02 11:40:27 2016
Quant Method : C:\MSDCHEM\1\METHODS\M2P2606.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu Jun 02 11:39:30 2016
Response via : Initial Calibration



SGS ACCUTEST JC21347

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\2P2606\
Data File : 2p59748.D
Acq On : 2 Jun 2016 11:39 am
Operator : robertl1
Sample : IC2606-1
Misc : op94078,e2p2606
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 02 11:57:55 2016
Quant Method : C:\MSDCHEM\1\METHODS\M2P2606.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu Jun 02 11:56:29 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.905	152	506221	40.00	ppm	0.00
24) Naphthalene-d8	5.959	136	1759673	40.00	ppm	0.00
47) Acenaphthene-d10	7.409	164	988964	40.00	ppm	0.00
69) Phenanthrene-d10	8.751	188	1670493	40.00	ppm	0.00
83) Chrysene-d12	12.126	240	1663793	40.00	ppm	0.00
91) Perylene-d12	14.137	264	1459135	40.00	ppm	0.00
101) 1,4-Dichlorobenzene-d4a	4.905	152	506221	40.00	ppm	0.00
103) Naphthalene-d8a	5.959	136	1759673	40.00	ppm	0.00
105) Acenaphthene-d10a	7.409	164	988964	40.00	ppm	0.00
108) Chrysene-d12a	12.126	240	1663793	40.00	ppm	0.00
110) Phenanthrene-d10a	8.751	188	1670493	40.00	ppm	0.00
113) Chrysene-d12b	12.126	240	1663793	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	3.788	112	18954	0.98	ppm	0.00
Spiked Amount 50.000	Range 11 - 58		Recovery = 1.96%#			
8) Phenol-d5	4.590	99	22187	0.97	ppm	-0.01
Spiked Amount 50.000	Range 10 - 59		Recovery = 1.94%#			
25) Nitrobenzene-d5	5.365	82	18447	1.05	ppm	0.00
Spiked Amount 50.000	Range 19 - 61		Recovery = 2.10%#			
51) 2-Fluorobiphenyl	6.852	172	40041	1.10	ppm	0.00
Spiked Amount 50.000	Range 21 - 58		Recovery = 2.20%#			
73) 2,4,6-Tribromophenol	8.077	330	4509	1.00	ppm	0.00
Spiked Amount 50.000	Range 12 - 68		Recovery = 2.00%#			
85) Terphenyl-d14	10.661	244	37336	1.06	ppm	0.00
Spiked Amount 50.000	Range 16 - 65		Recovery = 2.12%#			
111) 1-chlorooctadecane	9.741	57	1084	0.00	ppm	-0.20
112) O-terphenyl	0.000	230	0	0.00	ppm	
Target Compounds						Qvalue
2) 1,4-Dioxane	2.253	88	8763	1.02	ppm	92
3) Pyridine	2.600	79	16403	0.86	ppm	81
4) N-Nitrosodimethylamine	2.552	74	9791	0.90	ppm #	23
6) Indene	5.119	116	32537	1.10	ppm	96
7) Cumene	4.237	105	45048	1.02	ppm	97
9) Phenol	4.601	94	25148	1.02	ppm	91
10) Aniline	4.627	93	30398	1.07	ppm	95
11) bis(2-Chloroethyl)ether	4.686	93	16649	1.03	ppm	94
12) 2-Chlorophenol	4.724	128	21336	1.08	ppm	97
13) Decane	4.772	57	29298	1.08	ppm	82
14) 1,3-Dichlorobenzene	4.857	146	24662	1.09	ppm	96
15) 1,4-Dichlorobenzene	4.922	146	24416	1.12	ppm	97
16) Benzyl alcohol	5.018	108	11230	1.02	ppm	95
17) 1,2-Dichlorobenzene	5.045	146	22730	1.10	ppm	95
18) Acetophenone	5.237	105	25096	1.13	ppm	99
19) 2-Methylphenol	5.109	108	16698	1.07	ppm	95
20) 2,2'-oxybis(1-Chloropr...	5.135	121	6077	1.08	ppm #	67
21) 3&4-Methylphenol	5.237	108	18257	1.11	ppm	95
22) n-Nitroso-di-n-propyla...	5.242	70	12160	1.11	ppm	86

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\2P2606\
Data File : 2p59748.D
Acq On : 2 Jun 2016 11:39 am
Operator : robertl1
Sample : IC2606-1
Misc : op94078,e2p2606
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 02 11:57:55 2016
Quant Method : C:\MSDCHEM\1\METHODS\M2P2606.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu Jun 02 11:56:29 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
23) Hexachloroethane	5.328	201	7539	1.05	ppm	#	80
26) Nitrobenzene	5.382	77	17959	1.08	ppm		90
27) Quinoline	6.253	129	36727	1.06	ppm		94
28) Isophorone	5.579	82	31195	1.04	ppm		88
29) 2-Nitrophenol	5.644	139	9687	1.04	ppm		93
30) 2,4-Dimethylphenol	5.676	107	17391	1.03	ppm		93
31) Benzoic acid	5.708	105	9893	0.93	ppm		88
32) bis(2-Chloroethoxy)met...	5.761	93	19042	1.08	ppm		96
33) 2,4-Dichlorophenol	5.841	162	16125	1.06	ppm		94
34) 2,6-Dichlorophenol	6.029	162	15523	1.09	ppm		99
35) 1,3,5-Trichlorobenzene	5.654	180	18929	1.09	ppm		91
36) 1,2,4-Trichlorobenzene	5.911	180	16660	1.03	ppm		88
37) 1,2,3-Trichlorobenzene	6.093	180	17083	1.10	ppm		95
38) Naphthalene	5.981	128	54277	1.09	ppm		98
39) 4-Chloroaniline	6.023	127	21944	1.07	ppm		91
40) 2,3-Dichloroaniline	6.777	161	20542	1.11	ppm		85
41) Caprolactam	6.285	113	5689	1.04	ppm		89
42) Hexachlorobutadiene	6.082	225	9443	1.06	ppm		97
43) 4-Chloro-3-methylphenol	6.414	107	16092	1.08	ppm		98
44) 2-Methylnaphthalene	6.548	141	31039	1.08	ppm		90
45) 1-Methylnaphthalene	6.628	141	32396	1.10	ppm		95
46) Dimethylnaphthalene	7.061	156	33530	1.11	ppm		97
48) Hexachlorocyclopentadiene	6.676	237	19074	1.98	ppm		97
49) 2,4,6-Trichlorophenol	6.777	196	11219	1.06	ppm		98
50) 2,4,5-Trichlorophenol	6.804	196	11636	1.05	ppm		99
52) 2-Chloronaphthalene	6.949	162	35741	1.11	ppm		97
53) Biphenyl	6.933	154	47205	1.13	ppm		97
54) 2-Nitroaniline	7.029	65	10480	1.09	ppm		87
55) Dimethylphthalate	7.184	163	38388	1.09	ppm		97
56) Acenaphthylene	7.291	152	56064	1.08	ppm		98
57) 2,6-Dinitrotoluene	7.232	165	7379	1.00	ppm		82
58) 3-Nitroaniline	7.366	138	10004	1.05	ppm		90
59) Acenaphthene	7.435	153	33899	1.10	ppm		96
60) 2,4-Dinitrophenol	7.451	184	2954	1.12	ppm		100
61) 4-Nitrophenol	7.494	109	4054	0.97	ppm		86
62) Dibenzofuran	7.574	168	47122	1.10	ppm		92
63) 2,4-Dinitrotoluene	7.558	165	8813	0.95	ppm		77
64) 2,3,4,6-Tetrachlorophenol	7.676	232	8804	0.95	ppm		90
65) Diethylphthalate	7.767	149	36116	1.07	ppm		95
66) Fluorene	7.869	166	38142	1.09	ppm		99
67) 4-Chlorophenyl-phenyle...	7.869	204	17442	1.08	ppm		95
68) 4-Nitroaniline	7.874	138	10437	1.12	ppm		74
70) 4,6-Dinitro-2-methylph...	7.906	198	3016	0.72	ppm		96
71) n-Nitrosodiphenylamine	7.970	169	25222	1.06	ppm		97
72) 1,2-Diphenylhydrazine	8.008	77	34561	1.12	ppm		87
74) 4-Bromophenyl-phenylether	8.313	248	10116	1.03	ppm		93
75) Hexachlorobenzene	8.366	284	11665	1.07	ppm		86
76) Pentachlorophenol	8.553	266	12765	1.87	ppm		92
77) Phenanthrene	8.778	178	54187	1.10	ppm		98
78) Anthracene	8.826	178	50966	1.05	ppm		96

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\2P2606\
Data File : 2p59748.D
Acq On : 2 Jun 2016 11:39 am
Operator : robertl1
Sample : IC2606-1
Misc : op94078,e2p2606
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 02 11:57:55 2016
Quant Method : C:\MSDCHEM\1\METHODS\M2P2606.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu Jun 02 11:56:29 2016
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
79)	Carbazole	8.997	167	51527	1.07	ppm		100
80)	Di-n-butylphthalate	9.404	149	55083	0.98	ppm		98
81)	Fluoranthene	10.142	202	54770	0.99	ppm		95
82)	Octadecane	8.644	43	27416	1.08	ppm	#	73
84)	Pyrene	10.425	202	61472	1.06	ppm		99
86)	Butylbenzylphthalate	11.377	149	24269	0.98	ppm		84
87)	Benzo[a]anthracene	12.110	228	57505	1.08	ppm		94
88)	3,3'-Dichlorobenzidine	12.099	252	18674	1.03	ppm		83
89)	Chrysene	12.158	228	52557	1.08	ppm		99
90)	bis(2-Ethylhexyl)phtha...	12.260	149	29800	1.00	ppm		99
92)	Di-n-octylphthalate	13.212	149	48626	0.93	ppm		98
93)	Benzo[b]fluoranthene	13.624	252	51917	1.04	ppm		90
94)	Benzo[k]fluoranthene	13.661	252	47761	1.07	ppm		94
95)	Benzo[a]pyrene	14.052	252	45063	1.02	ppm		94
96)	Indeno[1,2,3-cd]pyrene	15.656	276	38278	0.98	ppm		86
97)	Dibenz(a,h)acridine	15.314	279	35119	0.95	ppm		89
98)	Dibenz[a,h]anthracene	15.704	278	39794	1.01	ppm		90
99)	7,12-Dimethylbenz(a)an...	13.624	256	22551	1.02	ppm		93
100)	Benzo[g,h,i]perylene	16.089	276	43890	1.04	ppm		88

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

Manual Integrations APPROVED (compounds with "m" flag)
Kristi Schollenberger 06/03/16 15:32

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P2606\
Data File : 2p59749.D
Acq On : 2 Jun 2016 12:00 pm
Operator : robertl1
Sample : IC2606-100
Misc : op94078,e2p2606
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 02 12:26:20 2016
Quant Method : C:\MSDCHEM\1\METHODS\M2P2606.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu Jun 02 12:25:14 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.911	152	364189	40.00	ppm	0.00
24) Naphthalene-d8	5.965	136	1307442	40.00	ppm	0.00
47) Acenaphthene-d10	7.414	164	750870	40.00	ppm	0.00
69) Phenanthrene-d10	8.757	188	1306712	40.00	ppm	0.00
83) Chrysene-d12	12.137	240	1236672	40.00	ppm	0.00
91) Perylene-d12	14.143	264	1227403	40.00	ppm	0.00
101) 1,4-Dichlorobenzene-d4a	4.911	152	364189	40.00	ppm	0.00
103) Naphthalene-d8a	5.965	136	1307442	40.00	ppm	0.00
105) Acenaphthene-d10a	7.414	164	750870	40.00	ppm	0.00
108) Chrysene-d12a	12.137	240	1236672	40.00	ppm	0.00
110) Phenanthrene-d10a	8.757	188	1306712	40.00	ppm	0.00
113) Chrysene-d12b	12.137	240	1236672	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	3.793	112	1400595	100.79	ppm	0.00
Spiked Amount 50.000	Range 11 - 58		Recovery	=	201.58%#	
8) Phenol-d5	4.606	99	1571041	96.41	ppm	0.00
Spiked Amount 50.000	Range 10 - 59		Recovery	=	192.82%#	
25) Nitrobenzene-d5	5.376	82	1073844	86.22	ppm	0.00
Spiked Amount 50.000	Range 19 - 61		Recovery	=	172.44%#	
51) 2-Fluorobiphenyl	6.858	172	2006215	78.13	ppm	0.00
Spiked Amount 50.000	Range 21 - 58		Recovery	=	156.26%#	
73) 2,4,6-Tribromophenol	8.088	330	330051	94.84	ppm	0.00
Spiked Amount 50.000	Range 12 - 68		Recovery	=	189.68%#	
85) Terphenyl-d14	10.671	244	2473580	95.55	ppm	0.00
Spiked Amount 50.000	Range 16 - 65		Recovery	=	191.10%#	
111) 1-chlorooctadecane	0.000	57	0	0.00	ppm	
112) O-terphenyl	0.000	230	0	0.00	ppm	
Target Compounds						Qvalue
2) 1,4-Dioxane	2.253	88	677336	106.87	ppm	99
3) Pyridine	2.579	79	1542230	108.83	ppm	76
4) N-Nitrosodimethylamine	2.552	74	928352	113.44	ppm #	35
6) Indene	5.125	116	1517415	76.70	ppm	97
7) Cumene	4.237	105	2865301	92.13	ppm	96
9) Phenol	4.622	94	1596840	92.47	ppm	83
10) Aniline	4.638	93	1725110	87.99	ppm	91
11) bis(2-Chloroethyl)ether	4.697	93	969151	87.08	ppm	92
12) 2-Chlorophenol	4.734	128	1137479	84.28	ppm	93
13) Decane	4.777	57	1477338	80.31	ppm	87
14) 1,3-Dichlorobenzene	4.863	146	1300964	84.31	ppm	98
15) 1,4-Dichlorobenzene	4.922	146	1257720	84.27	ppm	98
16) Benzyl alcohol	5.034	108	656312	86.63	ppm	94
17) 1,2-Dichlorobenzene	5.050	146	1109806	79.47	ppm	97
18) Acetophenone	5.253	105	1142201	77.12	ppm	91
19) 2-Methylphenol	5.120	108	849350	80.63	ppm	95
20) 2,2'-oxybis(1-Chloropr...	5.146	121	314198	82.23	ppm #	61
21) 3&4-Methylphenol	5.253	108	859631	78.21	ppm	95
22) n-Nitroso-di-n-propyla...	5.264	70	598334	80.67	ppm	77

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P2606\
Data File : 2p59749.D
Acq On : 2 Jun 2016 12:00 pm
Operator : robertl1
Sample : IC2606-100
Misc : op94078,e2p2606
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 02 12:26:20 2016
Quant Method : C:\MSDCHEM\1\METHODS\M2P2606.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu Jun 02 12:25:14 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
23) Hexachloroethane	5.328	201	438020	87.97	ppm	#	80
26) Nitrobenzene	5.392	77	986115	84.05	ppm		92
27) Quinoline	6.275	129	2317571	92.61	ppm		95
28) Isophorone	5.596	82	2014674	92.36	ppm		86
29) 2-Nitrophenol	5.654	139	579725	87.01	ppm		88
30) 2,4-Dimethylphenol	5.692	107	988797	83.28	ppm		97
31) Benzoic acid	5.826	105	952529m	115.12	ppm		
32) bis(2-Chloroethoxy)met...	5.772	93	1071857	85.49	ppm		98
33) 2,4-Dichlorophenol	5.852	162	937032	86.56	ppm		93
34) 2,6-Dichlorophenol	6.040	162	809072	81.47	ppm		99
35) 1,3,5-Trichlorobenzene	5.660	180	959896	79.29	ppm		95
36) 1,2,4-Trichlorobenzene	5.917	180	981362	85.36	ppm		95
37) 1,2,3-Trichlorobenzene	6.104	180	884426	81.17	ppm		90
38) Naphthalene	5.986	128	2787600	80.48	ppm		99
39) 4-Chloroaniline	6.034	127	1156003	80.82	ppm		97
40) 2,3-Dichloroaniline	6.788	161	1000199	77.95	ppm		93
41) Caprolactam	6.366	113	395338	98.02	ppm		84
42) Hexachlorobutadiene	6.088	225	524390	83.85	ppm		98
43) 4-Chloro-3-methylphenol	6.435	107	937618	87.91	ppm		89
44) 2-Methylnaphthalene	6.553	141	1699768	83.81	ppm		93
45) 1-Methylnaphthalene	6.639	141	1697554	82.35	ppm		97
46) Dimethylnaphthalene	7.072	156	1689113	80.47	ppm		98
48) Hexachlorocyclopentadiene	6.681	237	1209394	173.09	ppm		95
49) 2,4,6-Trichlorophenol	6.788	196	604310	80.07	ppm		96
50) 2,4,5-Trichlorophenol	6.820	196	700819	87.06	ppm		98
52) 2-Chloronaphthalene	6.960	162	1746272	77.04	ppm		94
53) Biphenyl	6.943	154	2237565	76.18	ppm		94
54) 2-Nitroaniline	7.045	65	645789	90.81	ppm		86
55) Dimethylphthalate	7.195	163	2177732	85.54	ppm		99
56) Acenaphthylene	7.296	152	2994007	80.90	ppm		100
57) 2,6-Dinitrotoluene	7.248	165	519516	94.17	ppm		76
58) 3-Nitroaniline	7.382	138	648463	91.88	ppm		96
59) Acenaphthene	7.441	153	1796186	81.75	ppm		99
60) 2,4-Dinitrophenol	7.468	184	641065	277.96	ppm	#	100
61) 4-Nitrophenol	7.516	109	316294	99.61	ppm		96
62) Dibenzofuran	7.585	168	2335658	77.50	ppm		94
63) 2,4-Dinitrotoluene	7.575	165	658084	94.63	ppm		87
64) 2,3,4,6-Tetrachlorophenol	7.687	232	620547	90.76	ppm		86
65) Diethylphthalate	7.783	149	2122187	86.30	ppm		93
66) Fluorene	7.879	166	1863940	75.93	ppm		98
67) 4-Chlorophenyl-phenyle...	7.874	204	887067	77.97	ppm		96
68) 4-Nitroaniline	7.906	138	623419	90.55	ppm		91
70) 4,6-Dinitro-2-methylph...	7.928	198	442868	123.87	ppm		81
71) n-Nitrosodiphenylamine	7.981	169	1466460	82.99	ppm		97
72) 1,2-Diphenylhydrazine	8.019	77	1827553	80.50	ppm		83
74) 4-Bromophenyl-phenylether	8.318	248	674734	90.33	ppm		93
75) Hexachlorobenzene	8.372	284	707436	86.53	ppm		85
76) Pentachlorophenol	8.564	266	1025736	193.98	ppm		98
77) Phenanthrene	8.789	178	2978226	82.17	ppm		98
78) Anthracene	8.842	178	2970079	82.99	ppm		99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P2606\
Data File : 2p59749.D
Acq On : 2 Jun 2016 12:00 pm
Operator : robertl1
Sample : IC2606-100
Misc : op94078,e2p2606
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 02 12:26:20 2016
Quant Method : C:\MSDCHEM\1\METHODS\M2P2606.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu Jun 02 12:25:14 2016
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
79)	Carbazole	9.013	167	3041192	85.13	ppm		98
80)	Di-n-butylphthalate	9.409	149	4029906	93.79	ppm		98
81)	Fluoranthene	10.153	202	4039915	94.80	ppm		91
82)	Octadecane	8.650	43	1534483	81.78	ppm	#	74
84)	Pyrene	10.441	202	3800261	90.56	ppm		97
86)	Butylbenzylphthalate	11.388	149	1954453	104.55	ppm		91
87)	Benzo[a]anthracene	12.116	228	3540069	91.60	ppm		99
88)	3,3'-Dichlorobenzidine	12.121	252	1317111	98.31	ppm		95
89)	Chrysene	12.180	228	3171352	90.39	ppm		99
90)	bis(2-Ethylhexyl)phtha...	12.265	149	2212742	99.74	ppm		99
92)	Di-n-octylphthalate	13.223	149	4605585	103.56	ppm		98
93)	Benzo[b]fluoranthene	13.651	252	3878413	94.04	ppm		90
94)	Benzo[k]fluoranthene	13.699	252	2730695	77.96	ppm		88
95)	Benzo[a]pyrene	14.079	252	3384620	93.47	ppm		92
96)	Indeno[1,2,3-cd]pyrene	15.699	276	3334473	100.87	ppm		81
97)	Dibenz(a,h)acridine	15.346	279	3076783	99.04	ppm		92
98)	Dibenz[a,h]anthracene	15.753	278	3042971	93.83	ppm		89
99)	7,12-Dimethylbenz(a)an...	13.656	256	1608040	89.49	ppm		93
100)	Benzo[g,h,i]perylene	16.148	276	3390939	96.54	ppm		86

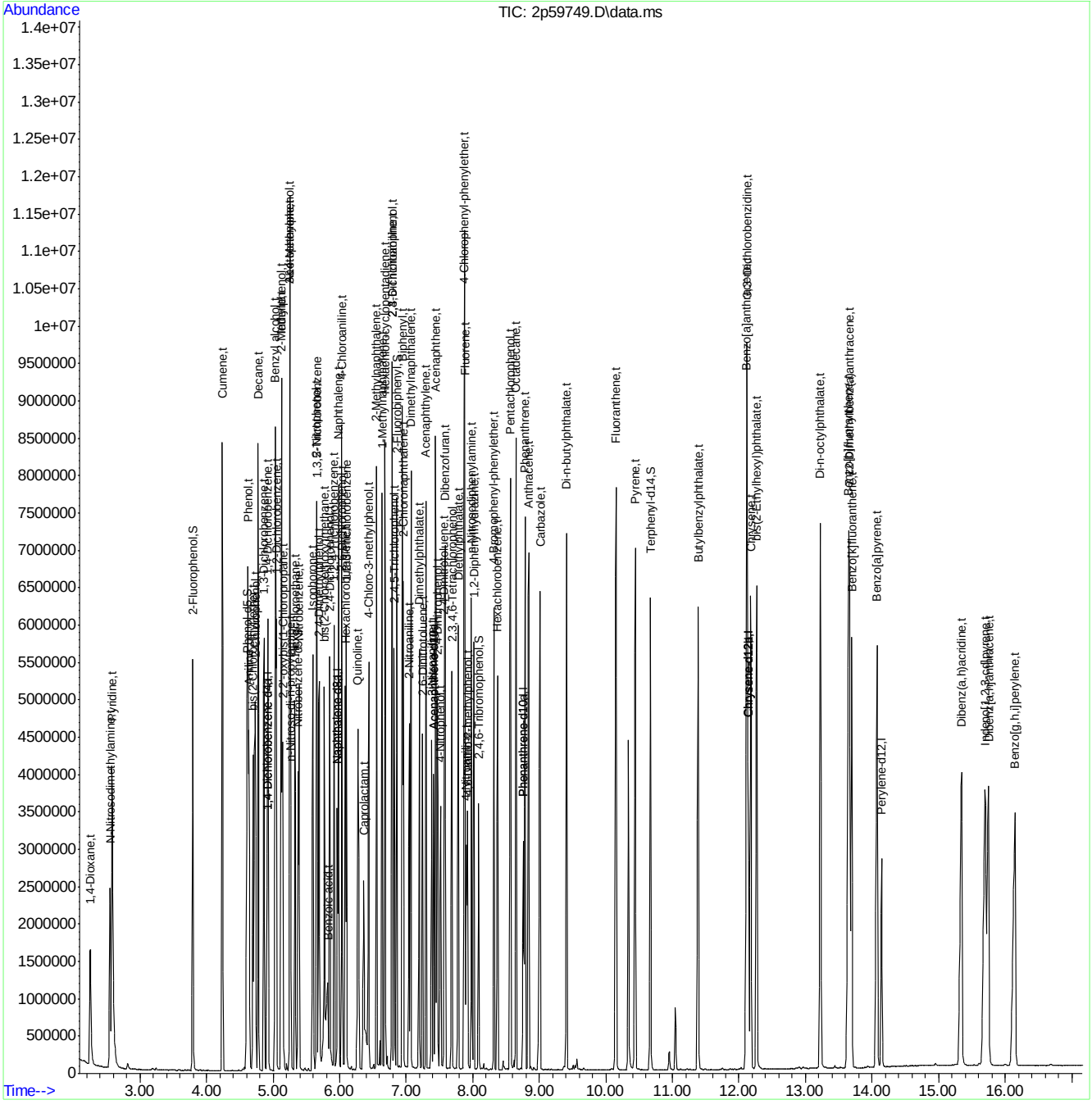
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC21347

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P2606\
Data File : 2p59749.D
Acq On : 2 Jun 2016 12:00 pm
Operator : robertl1
Sample : IC2606-100
Misc : op94078,e2p2606
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 02 12:26:20 2016
Quant Method : C:\MSDCHEM\1\METHODS\M2P2606.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu Jun 02 12:25:14 2016
Response via : Initial Calibration



SGS ACCUTEST JC21347

Manual Integration Approval Summary

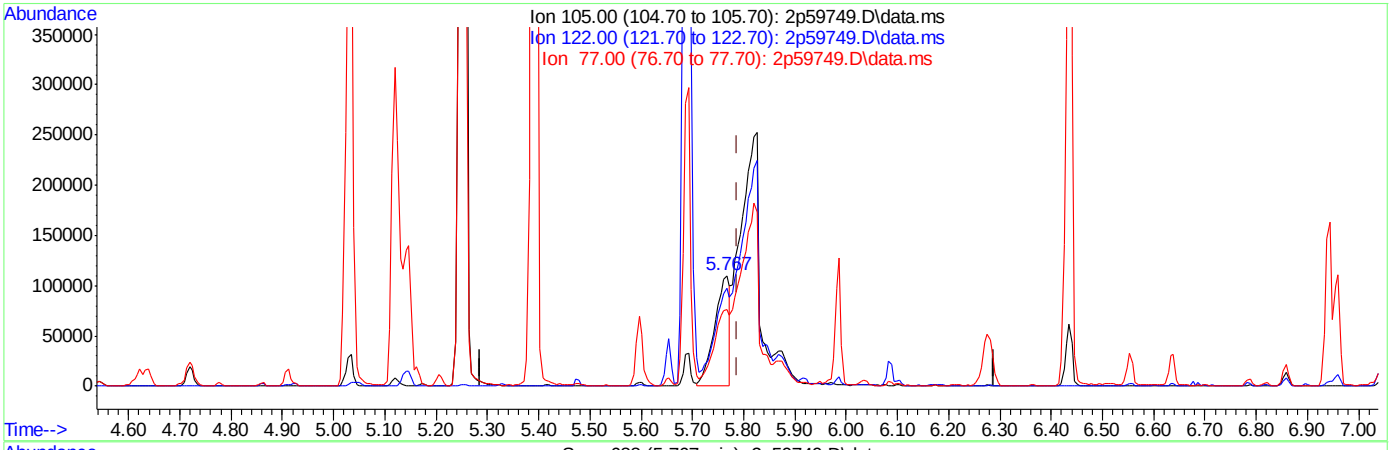
Sample Number:	E2P2606-IC2606	**Method:**	EPA 625
Lab FileID:	2P59749.D	**Analyst approved:**	06/03/16 10:05 Robert LaPosta
Injection Time:	06/02/16 12:00	**Supervisor approved:**	06/03/16 15:32 Kristi Schollenberger

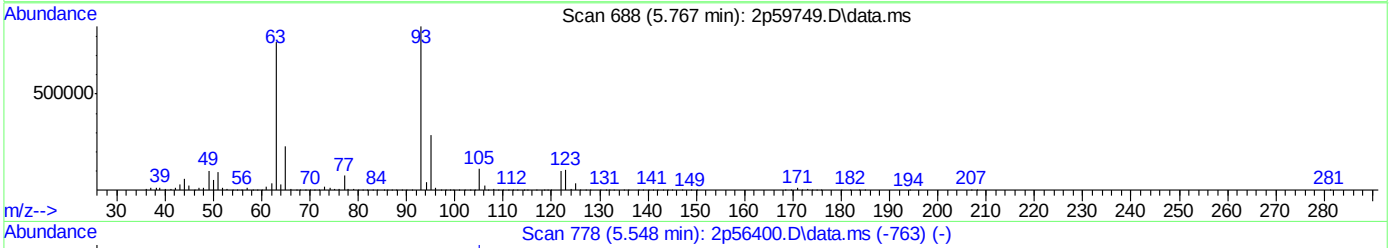
Parameter	CAS	Sig#	R.T. (min.)	Reason
Benzoic Acid	65-85-0		5.83	Split peak

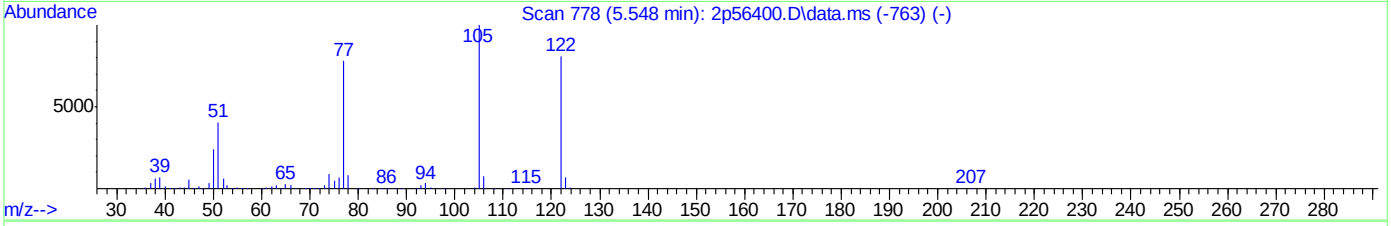
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2P2606\
Data File : 2p59749.D
Acq On : 2 Jun 2016 12:00 pm
Operator : robertl1
Sample : IC2606-100
Misc : op94078,e2p2606
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 02 12:16:03 2016
Quant Method : C:\MSDCHEM\1\METHODS\M2P2606.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu Jun 02 11:56:29 2016
Response via : Initial Calibration







TIC: 2p59749.D\data.ms

(31) Benzoic acid (t)

5.767min (-0.021) 28.60ppm

response 224826

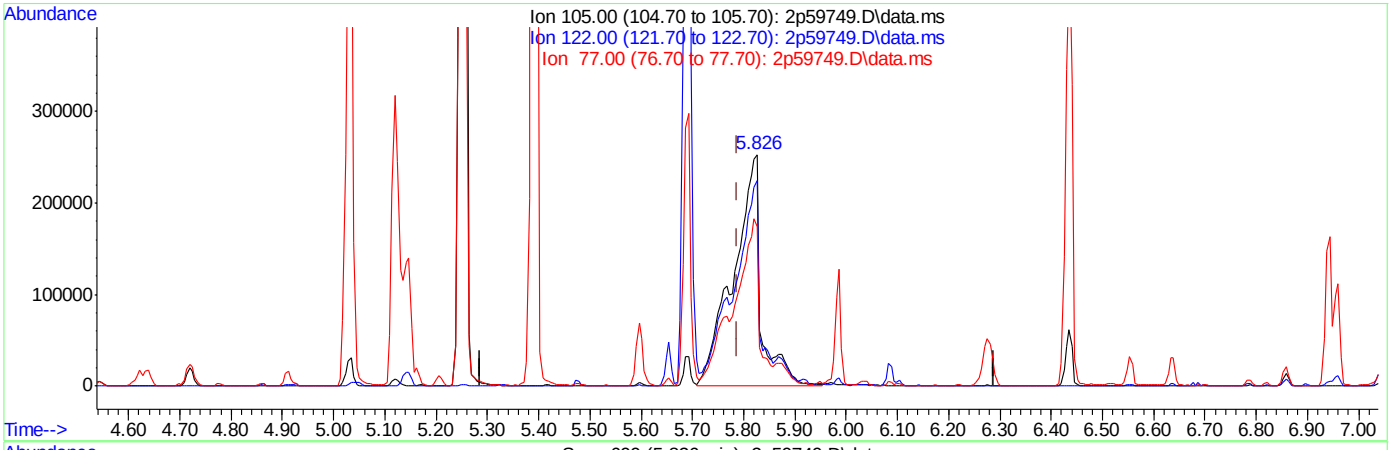
Ion	Exp%	Act%
105.00	100	100
122.00	78.30	66.71
77.00	68.20	60.14
0.00	0.00	0.00

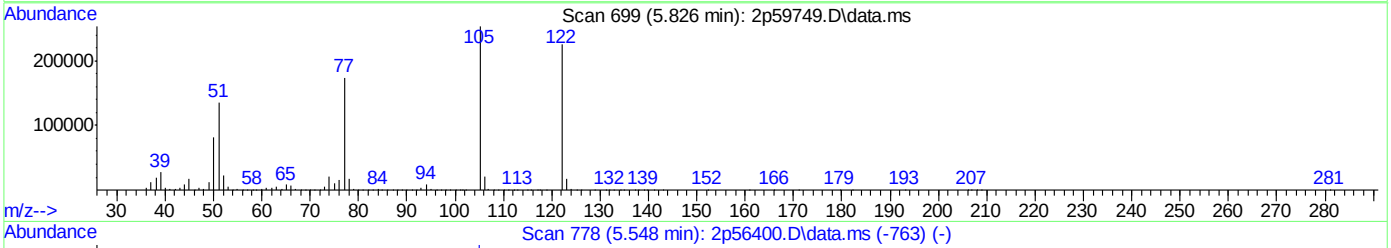
SGS ACCUTEST JC21347

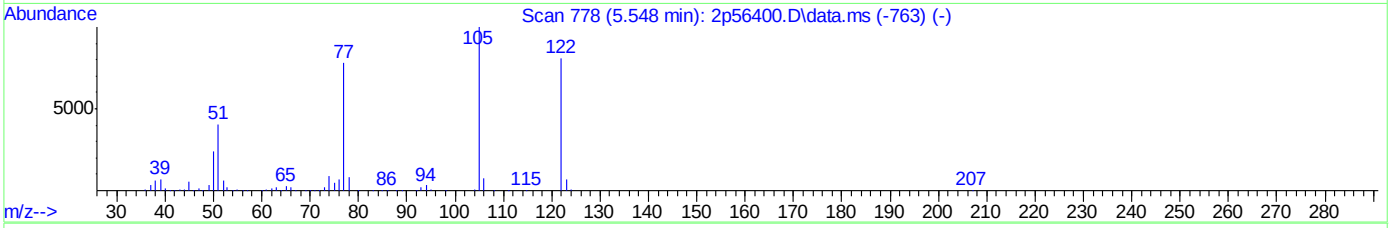
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2P2606\
Data File : 2p59749.D
Acq On : 2 Jun 2016 12:00 pm
Operator : robertl1
Sample : IC2606-100
Misc : op94078,e2p2606
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 02 12:25:19 2016
Quant Method : C:\MSDCHEM\1\METHODS\M2P2606.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu Jun 02 12:25:14 2016
Response via : Initial Calibration







TIC: 2p59749.D\data.ms

(31) Benzoic acid (t)

5.826min (+0.038) 115.12ppm m

response 952529

Ion	Exp%	Act%
105.00	100	100
122.00	78.30	88.95
77.00	68.20	68.68
0.00	0.00	0.00

Manual Integrations APPROVED (compounds with "m" flag)
Kristi Schollenberger 06/03/16 15:32

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P2606\
Data File : 2p59750.D
Acq On : 2 Jun 2016 12:22 pm
Operator : robertl1
Sample : IC2606-80
Misc : op94078,e2p2606
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 02 12:41:25 2016
Quant Method : C:\MSDCHEM\1\METHODS\M2P2606.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu Jun 02 12:25:14 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.911	152	361652	40.00	ppm	0.00
24) Naphthalene-d8	5.965	136	1285406	40.00	ppm	0.00
47) Acenaphthene-d10	7.414	164	729322	40.00	ppm	0.00
69) Phenanthrene-d10	8.757	188	1278036	40.00	ppm	0.00
83) Chrysene-d12	12.132	240	1230208	40.00	ppm	0.00
91) Perylene-d12	14.143	264	1182142	40.00	ppm	0.00
101) 1,4-Dichlorobenzene-d4a	4.911	152	361652	40.00	ppm	0.00
103) Naphthalene-d8a	5.965	136	1285406	40.00	ppm	0.00
105) Acenaphthene-d10a	7.414	164	729322	40.00	ppm	0.00
108) Chrysene-d12a	12.132	240	1230208	40.00	ppm	0.00
110) Phenanthrene-d10a	8.757	188	1278036	40.00	ppm	0.00
113) Chrysene-d12b	12.132	240	1230208	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	3.793	112	1086890	78.76	ppm	0.00
Spiked Amount 50.000	Range 11 - 58		Recovery = 157.52%#			
8) Phenol-d5	4.606	99	1268445	78.38	ppm	0.00
Spiked Amount 50.000	Range 10 - 59		Recovery = 156.76%#			
25) Nitrobenzene-d5	5.371	82	887278	72.46	ppm	0.00
Spiked Amount 50.000	Range 19 - 61		Recovery = 144.92%#			
51) 2-Fluorobiphenyl	6.858	172	1678863	67.31	ppm	0.00
Spiked Amount 50.000	Range 21 - 58		Recovery = 134.62%#			
73) 2,4,6-Tribromophenol	8.088	330	263935	77.54	ppm	0.00
Spiked Amount 50.000	Range 12 - 68		Recovery = 155.08%#			
85) Terphenyl-d14	10.671	244	2011094	78.09	ppm	0.00
Spiked Amount 50.000	Range 16 - 65		Recovery = 156.18%#			
111) 1-chlorooctadecane	0.000	57	0	0.00	ppm	
112) O-terphenyl	0.000	230	0	0.00	ppm	
Target Compounds						Qvalue
2) 1,4-Dioxane	2.253	88	488944	77.68	ppm	99
3) Pyridine	2.579	79	1127516	80.12	ppm	73
4) N-Nitrosodimethylamine	2.547	74	663798	81.68	ppm #	31
6) Indene	5.125	116	1290961	65.71	ppm	99
7) Cumene	4.237	105	2341061	75.80	ppm	96
9) Phenol	4.617	94	1323308	77.17	ppm	87
10) Aniline	4.633	93	1419806	72.92	ppm	90
11) bis(2-Chloroethyl)ether	4.697	93	793426	71.79	ppm	95
12) 2-Chlorophenol	4.734	128	936273	69.86	ppm	90
13) Decane	4.777	57	1243842	68.09	ppm	85
14) 1,3-Dichlorobenzene	4.857	146	1072027	69.96	ppm	99
15) 1,4-Dichlorobenzene	4.922	146	1052564	71.02	ppm	97
16) Benzyl alcohol	5.029	108	554219	73.66	ppm	97
17) 1,2-Dichlorobenzene	5.050	146	920382	66.36	ppm	98
18) Acetophenone	5.248	105	955130	64.94	ppm	90
19) 2-Methylphenol	5.120	108	719727	68.81	ppm	96
20) 2,2'-oxybis(1-Chloropr...	5.141	121	254791	67.15	ppm #	51
21) 3&4-Methylphenol	5.248	108	733628	67.22	ppm	95
22) n-Nitroso-di-n-propyla...	5.259	70	489893	66.51	ppm	76

SGS ACCUTEST JC21347

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P2606\
Data File : 2p59750.D
Acq On : 2 Jun 2016 12:22 pm
Operator : robertl1
Sample : IC2606-80
Misc : op94078,e2p2606
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 02 12:41:25 2016
Quant Method : C:\MSDCHEM\1\METHODS\M2P2606.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu Jun 02 12:25:14 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
23) Hexachloroethane	5.328	201	362092	73.23 ppm	#	81
26) Nitrobenzene	5.392	77	813218	70.51 ppm		88
27) Quinoline	6.270	129	1852587	75.30 ppm		95
28) Isophorone	5.596	82	1595455	74.39 ppm		85
29) 2-Nitrophenol	5.649	139	490965	74.95 ppm		93
30) 2,4-Dimethylphenol	5.687	107	809352	69.33 ppm		96
31) Benzoic acid	5.810	105	736849m	90.58 ppm		
32) bis(2-Chloroethoxy)met...	5.772	93	885257	71.81 ppm		98
33) 2,4-Dichlorophenol	5.847	162	773816	72.70 ppm		94
34) 2,6-Dichlorophenol	6.034	162	669857	68.61 ppm		98
35) 1,3,5-Trichlorobenzene	5.660	180	813916	68.39 ppm		97
36) 1,2,4-Trichlorobenzene	5.917	180	812629	71.89 ppm		96
37) 1,2,3-Trichlorobenzene	6.104	180	727614	67.92 ppm		91
38) Naphthalene	5.986	128	2312697	67.91 ppm		98
39) 4-Chloroaniline	6.034	127	969639	68.95 ppm		95
40) 2,3-Dichloroaniline	6.783	161	829012	65.72 ppm		94
41) Caprolactam	6.355	113	311954	78.67 ppm		85
42) Hexachlorobutadiene	6.082	225	440763	71.68 ppm		96
43) 4-Chloro-3-methylphenol	6.430	107	746265	71.17 ppm		92
44) 2-Methylnaphthalene	6.553	141	1407353	70.58 ppm		95
45) 1-Methylnaphthalene	6.633	141	1428689	70.49 ppm		94
46) Dimethylnaphthalene	7.066	156	1404322	68.05 ppm		97
48) Hexachlorocyclopentadiene	6.681	237	1033717	152.32 ppm		94
49) 2,4,6-Trichlorophenol	6.788	196	500617	68.29 ppm		98
50) 2,4,5-Trichlorophenol	6.820	196	575178	73.56 ppm		98
52) 2-Chloronaphthalene	6.954	162	1436346	65.24 ppm		100
53) Biphenyl	6.938	154	1892477	66.33 ppm		95
54) 2-Nitroaniline	7.045	65	525668	76.10 ppm		80
55) Dimethylphthalate	7.195	163	1760025	71.18 ppm		99
56) Acenaphthylene	7.296	152	2520724	70.13 ppm		100
57) 2,6-Dinitrotoluene	7.243	165	413740	77.21 ppm		81
58) 3-Nitroaniline	7.382	138	514682	75.08 ppm		99
59) Acenaphthene	7.441	153	1465436	68.67 ppm		98
60) 2,4-Dinitrophenol	7.468	184	504870	225.37 ppm	#	100
61) 4-Nitrophenol	7.516	109	249146	80.78 ppm		92
62) Dibenzofuran	7.585	168	1954178	66.76 ppm		96
63) 2,4-Dinitrotoluene	7.575	165	538579	79.74 ppm		94
64) 2,3,4,6-Tetrachlorophenol	7.682	232	509115	76.66 ppm		90
65) Diethylphthalate	7.778	149	1706421	71.45 ppm		94
66) Fluorene	7.874	166	1537865	64.50 ppm		97
67) 4-Chlorophenyl-phenyle...	7.874	204	736826	66.68 ppm		95
68) 4-Nitroaniline	7.901	138	498291	74.52 ppm		91
70) 4,6-Dinitro-2-methylph...	7.922	198	355937	101.79 ppm		85
71) n-Nitrosodiphenylamine	7.981	169	1196377	69.22 ppm		98
72) 1,2-Diphenylhydrazine	8.013	77	1503842	67.73 ppm		88
74) 4-Bromophenyl-phenylether	8.318	248	549033	75.15 ppm		92
75) Hexachlorobenzene	8.372	284	575716	72.00 ppm		82
76) Pentachlorophenol	8.564	266	835076	161.47 ppm		98
77) Phenanthrene	8.783	178	2452989	69.20 ppm		98
78) Anthracene	8.837	178	2456757	70.19 ppm		99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P2606\
Data File : 2p59750.D
Acq On : 2 Jun 2016 12:22 pm
Operator : robertl1
Sample : IC2606-80
Misc : op94078,e2p2606
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 02 12:41:25 2016
Quant Method : C:\MSDCHEM\1\METHODS\M2P2606.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu Jun 02 12:25:14 2016
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
79)	Carbazole	9.008	167	2476581	70.88	ppm		97
80)	Di-n-butylphthalate	9.409	149	3263390	77.65	ppm		99
81)	Fluoranthene	10.147	202	3260433	78.23	ppm		91
82)	Octadecane	8.650	43	1309458	71.35	ppm	#	73
84)	Pyrene	10.441	202	3138168	75.18	ppm		98
86)	Butylbenzylphthalate	11.388	149	1565951	84.20	ppm		88
87)	Benzo[a]anthracene	12.116	228	2855338	74.27	ppm		99
88)	3,3'-Dichlorobenzidine	12.116	252	1099106	82.47	ppm		95
89)	Chrysene	12.174	228	2594406	74.33	ppm		99
90)	bis(2-Ethylhexyl)phtha...	12.265	149	1820355	82.49	ppm		98
92)	Di-n-octylphthalate	13.223	149	3680574	85.93	ppm		99
93)	Benzo[b]fluoranthene	13.645	252	2933704	73.86	ppm		91
94)	Benzo[k]fluoranthene	13.688	252	2396726	71.04	ppm		90
95)	Benzo[a]pyrene	14.073	252	2695326	77.29	ppm		92
96)	Indeno[1,2,3-cd]pyrene	15.694	276	2578574	80.99	ppm		82
97)	Dibenz(a,h)acridine	15.341	279	2327078	77.78	ppm		93
98)	Dibenz[a,h]anthracene	15.742	278	2438136	78.06	ppm		90
99)	7,12-Dimethylbenz(a)an...	13.651	256	1277063	73.79	ppm		93
100)	Benzo[g,h,i]perylene	16.138	276	2664041	78.75	ppm		86

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

7.6.5

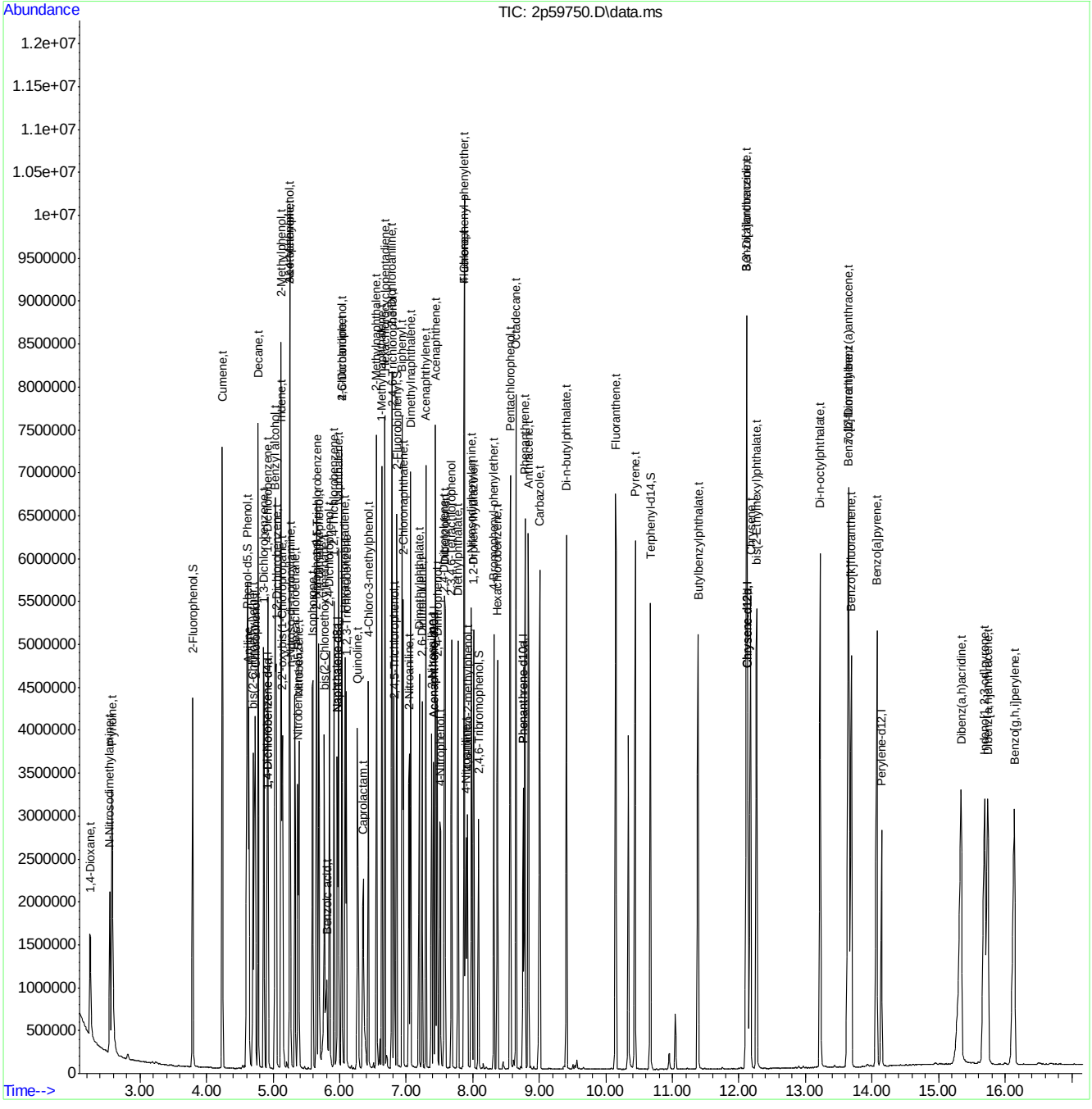
7

SGS ACCUTEST JC21347

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P2606\
Data File : 2p59750.D
Acq On : 2 Jun 2016 12:22 pm
Operator : robertl1
Sample : IC2606-80
Misc : op94078,e2p2606
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 02 12:41:25 2016
Quant Method : C:\MSDCHEM\1\METHODS\M2P2606.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu Jun 02 12:25:14 2016
Response via : Initial Calibration



SGS ACCUTEST JC21347

Manual Integration Approval Summary

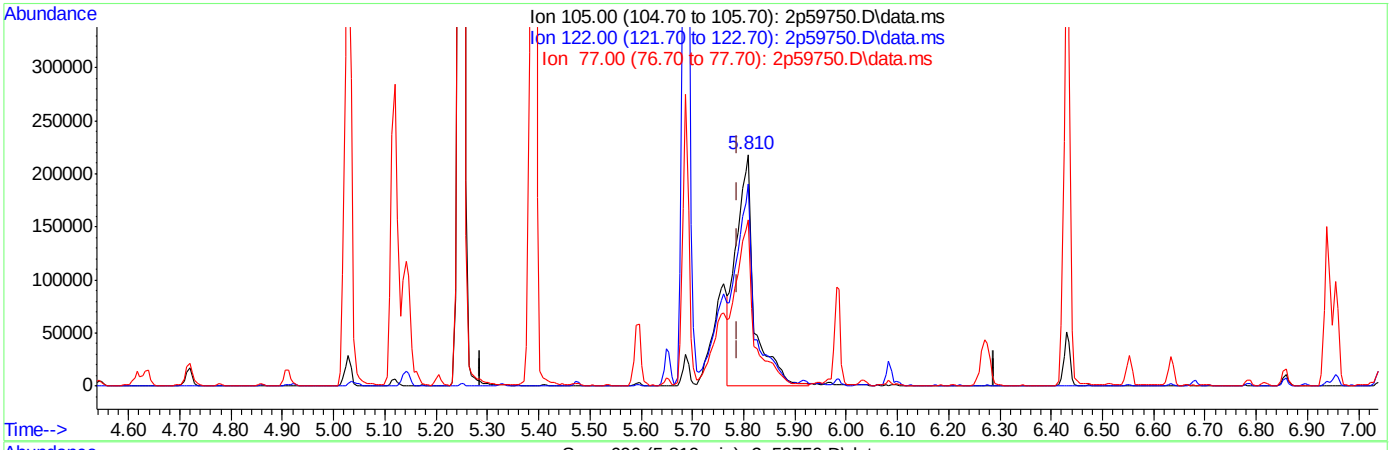
Sample Number:	E2P2606-IC2606	**Method:**	EPA 625
Lab FileID:	2P59750.D	**Analyst approved:**	06/03/16 10:05 Robert LaPosta
Injection Time:	06/02/16 12:22	**Supervisor approved:**	06/03/16 15:32 Kristi Schollenberger

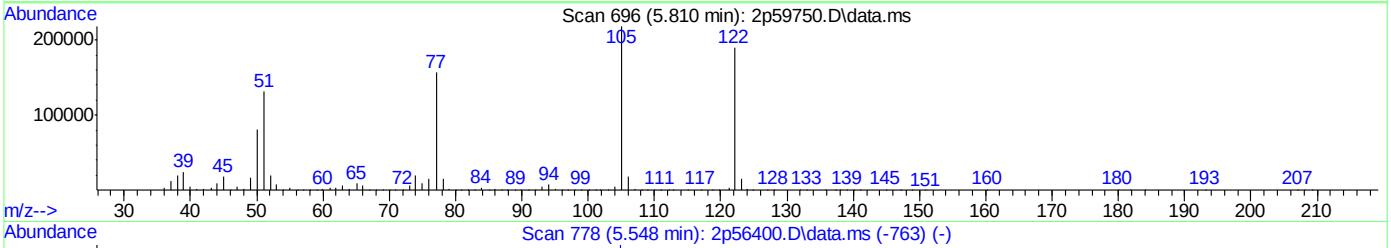
Parameter	CAS	Sig#	R.T. (min.)	Reason
Benzoic Acid	65-85-0		5.81	Split peak

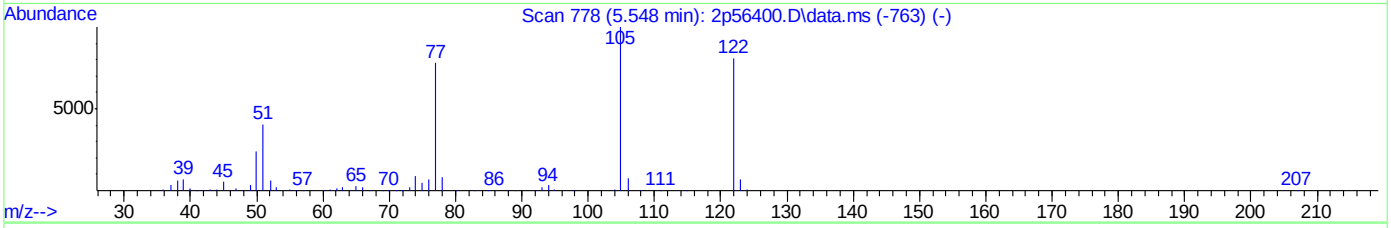
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2P2606\
Data File : 2p59750.D
Acq On : 2 Jun 2016 12:22 pm
Operator : robertl1
Sample : IC2606-80
Misc : op94078,e2p2606
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 02 12:40:15 2016
Quant Method : C:\MSDCHEM\1\METHODS\M2P2606.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu Jun 02 12:25:14 2016
Response via : Initial Calibration







TIC: 2p59750.D\data.ms

(31) Benzoic acid (t)

5.810min (+0.022) 67.88ppm

response 552179

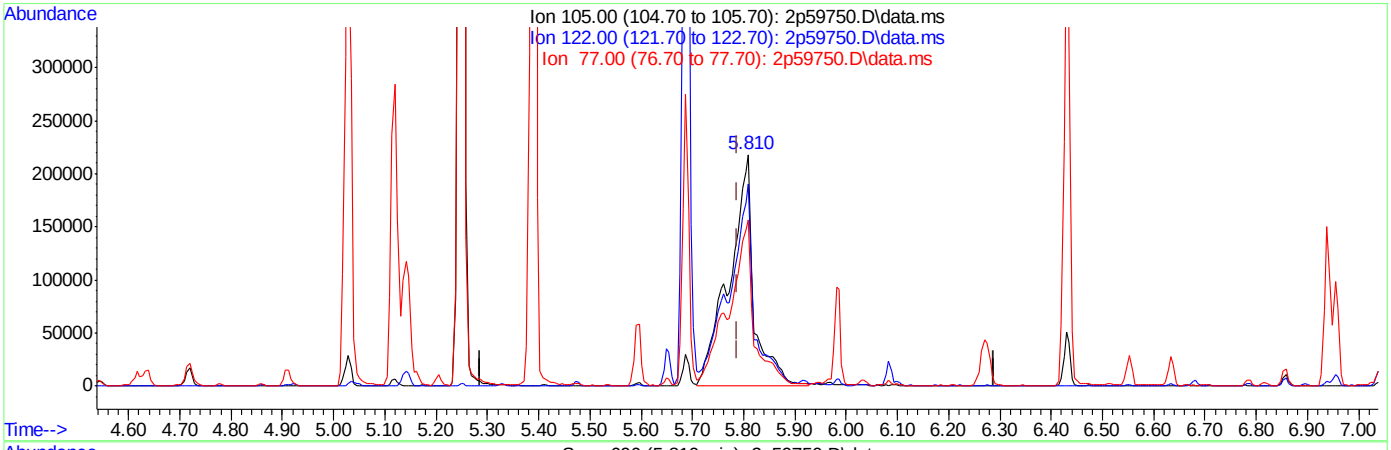
Ion	Exp%	Act%
105.00	100	100
122.00	78.30	85.61
77.00	68.20	71.02
0.00	0.00	0.00

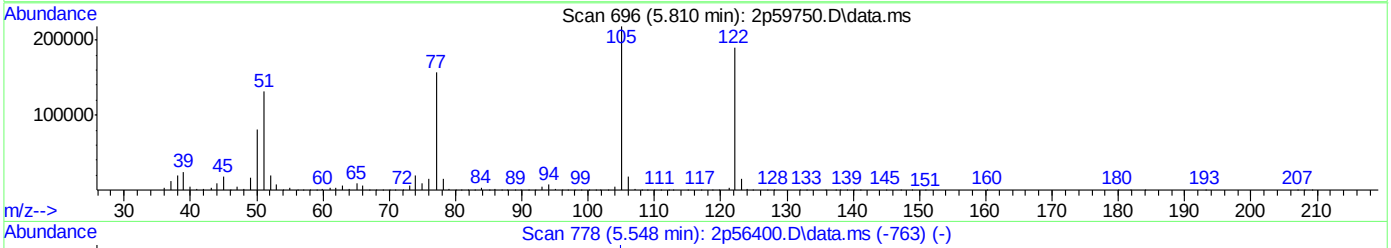
SGS ACCUTEST JC21347

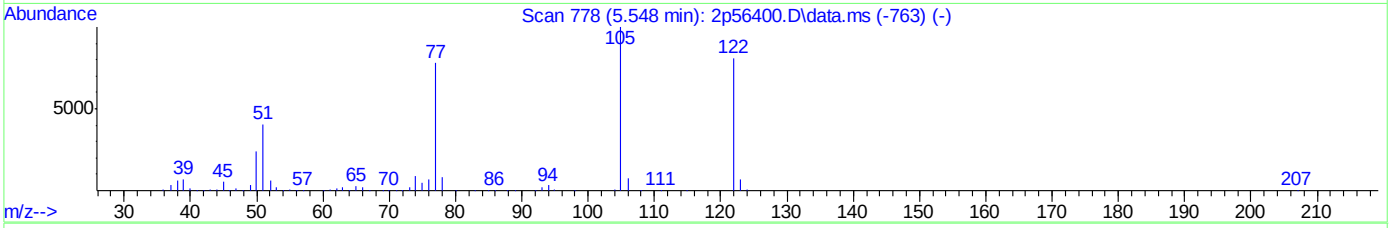
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2P2606\
Data File : 2p59750.D
Acq On : 2 Jun 2016 12:22 pm
Operator : robertl1
Sample : IC2606-80
Misc : op94078,e2p2606
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 02 12:40:15 2016
Quant Method : C:\MSDCHEM\1\METHODS\M2P2606.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu Jun 02 12:25:14 2016
Response via : Initial Calibration







TIC: 2p59750.D\data.ms

(31) Benzoic acid (t)

5.810min (+0.022) 90.58ppm m

response 736849

Ion	Exp%	Act%
105.00	100	100
122.00	78.30	87.06
77.00	68.20	71.72
0.00	0.00	0.00

SGS ACCUTEST JC21347

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P2606\
Data File : 2p59751.D
Acq On : 2 Jun 2016 12:44 pm
Operator : robertl1
Sample : IC2606-25
Misc : op94078,e2p2606
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 02 13:00:51 2016
Quant Method : C:\MSDCHEM\1\METHODS\M2P2606.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu Jun 02 12:41:38 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.906	152	408358	40.00	ppm	0.00
24) Naphthalene-d8	5.965	136	1388676	40.00	ppm	0.00
47) Acenaphthene-d10	7.409	164	779474	40.00	ppm	0.00
69) Phenanthrene-d10	8.757	188	1318628	40.00	ppm	0.00
83) Chrysene-d12	12.126	240	1375116	40.00	ppm	0.00
91) Perylene-d12	14.137	264	1229346	40.00	ppm	0.00
101) 1,4-Dichlorobenzene-d4a	4.906	152	408358	40.00	ppm	0.00
103) Naphthalene-d8a	5.965	136	1388676	40.00	ppm	0.00
105) Acenaphthene-d10a	7.409	164	779474	40.00	ppm	0.00
108) Chrysene-d12a	12.126	240	1375116	40.00	ppm	0.00
110) Phenanthrene-d10a	8.757	188	1318628	40.00	ppm	0.00
113) Chrysene-d12b	12.126	240	1375116	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	3.788	112	378984	24.40	ppm	0.00
Spiked Amount 50.000	Range 11 - 58		Recovery = 48.80%			
8) Phenol-d5	4.595	99	448995	24.67	ppm	0.00
Spiked Amount 50.000	Range 10 - 59		Recovery = 49.34%			
25) Nitrobenzene-d5	5.366	82	319223	24.59	ppm	0.00
Spiked Amount 50.000	Range 19 - 61		Recovery = 49.18%			
51) 2-Fluorobiphenyl	6.853	172	638724	24.75	ppm	0.00
Spiked Amount 50.000	Range 21 - 58		Recovery = 49.50%			
73) 2,4,6-Tribromophenol	8.083	330	90101	25.82	ppm	0.00
Spiked Amount 50.000	Range 12 - 68		Recovery = 51.64%			
85) Terphenyl-d14	10.666	244	698712	24.39	ppm	0.00
Spiked Amount 50.000	Range 16 - 65		Recovery = 48.78%			
111) 1-chlorooctadecane	0.000	57	0	0.00	ppm	
112) O-terphenyl	0.000	230	0	0.00	ppm	
Target Compounds						Qvalue
2) 1,4-Dioxane	2.247	88	169910	24.05	ppm	99
3) Pyridine	2.579	79	411754	25.91	ppm	78
4) N-Nitrosodimethylamine	2.542	74	229283	24.88	ppm #	31
6) Indene	5.120	116	530331	24.79	ppm	99
7) Cumene	4.237	105	862769	25.00	ppm	97
9) Phenol	4.606	94	468055	24.34	ppm	98
10) Aniline	4.633	93	547884	25.37	ppm	94
11) bis(2-Chloroethyl)ether	4.692	93	306311	25.06	ppm	97
12) 2-Chlorophenol	4.729	128	379180	25.71	ppm	88
13) Decane	4.772	57	507014	25.34	ppm	84
14) 1,3-Dichlorobenzene	4.858	146	417360	24.74	ppm	97
15) 1,4-Dichlorobenzene	4.922	146	402415	24.60	ppm	98
16) Benzyl alcohol	5.023	108	212450	25.41	ppm	95
17) 1,2-Dichlorobenzene	5.045	146	367713	24.31	ppm	95
18) Acetophenone	5.243	105	387712	24.26	ppm	98
19) 2-Methylphenol	5.114	108	287804	25.07	ppm	96
20) 2,2'-oxybis(1-Chloropr...	5.141	121	99288	23.94	ppm #	56
21) 3&4-Methylphenol	5.237	108	300793	25.21	ppm	96
22) n-Nitroso-di-n-propyla...	5.248	70	192888	24.00	ppm	77

SGS ACCUTEST JC21347

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P2606\
Data File : 2p59751.D
Acq On : 2 Jun 2016 12:44 pm
Operator : robertl1
Sample : IC2606-25
Misc : op94078,e2p2606
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 02 13:00:51 2016
Quant Method : C:\MSDCHEM\1\METHODS\M2P2606.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu Jun 02 12:41:38 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
23) Hexachloroethane	5.328	201	133362	24.30	ppm	#	75
26) Nitrobenzene	5.382	77	305784	25.14	ppm		96
27) Quinoline	6.259	129	639391	24.34	ppm		96
28) Isophorone	5.585	82	560967	24.56	ppm		85
29) 2-Nitrophenol	5.644	139	183965	26.33	ppm		94
30) 2,4-Dimethylphenol	5.681	107	310939	25.33	ppm		95
31) Benzoic acid	5.761	105	235502	26.11	ppm		96
32) bis(2-Chloroethoxy)met...	5.761	93	328311	25.17	ppm		96
33) 2,4-Dichlorophenol	5.842	162	288285	25.54	ppm		94
34) 2,6-Dichlorophenol	6.029	162	258278	25.20	ppm		99
35) 1,3,5-Trichlorobenzene	5.654	180	312222	25.01	ppm		96
36) 1,2,4-Trichlorobenzene	5.917	180	300192	25.09	ppm		96
37) 1,2,3-Trichlorobenzene	6.098	180	278692	24.83	ppm		89
38) Naphthalene	5.981	128	878894	24.63	ppm		99
39) 4-Chloroaniline	6.024	127	384281	26.01	ppm		98
40) 2,3-Dichloroaniline	6.783	161	328471	24.99	ppm		94
41) Caprolactam	6.318	113	102107	23.92	ppm		92
42) Hexachlorobutadiene	6.082	225	158146	24.31	ppm		98
43) 4-Chloro-3-methylphenol	6.419	107	268835	24.27	ppm		92
44) 2-Methylnaphthalene	6.548	141	531031	25.25	ppm		95
45) 1-Methylnaphthalene	6.633	141	539692	25.25	ppm		94
46) Dimethylnaphthalene	7.061	156	546837	25.28	ppm		98
48) Hexachlorocyclopentadiene	6.676	237	388188	54.04	ppm		95
49) 2,4,6-Trichlorophenol	6.783	196	193437	25.43	ppm		99
50) 2,4,5-Trichlorophenol	6.810	196	207047	25.18	ppm		97
52) 2-Chloronaphthalene	6.954	162	554250	24.46	ppm		97
53) Biphenyl	6.933	154	729726	24.78	ppm		96
54) 2-Nitroaniline	7.034	65	178846	24.46	ppm		88
55) Dimethylphthalate	7.184	163	627557	24.28	ppm		99
56) Acenaphthylene	7.291	152	940723	25.11	ppm		100
57) 2,6-Dinitrotoluene	7.238	165	146078	25.69	ppm		75
58) 3-Nitroaniline	7.371	138	179592	24.82	ppm		98
59) Acenaphthene	7.436	153	559998	25.27	ppm		99
60) 2,4-Dinitrophenol	7.457	184	160311	61.90	ppm	#	100
61) 4-Nitrophenol	7.500	109	81374	24.64	ppm		89
62) Dibenzofuran	7.580	168	753530	24.91	ppm		95
63) 2,4-Dinitrotoluene	7.564	165	192049	26.62	ppm		99
64) 2,3,4,6-Tetrachlorophenol	7.676	232	175800	24.98	ppm		91
65) Diethylphthalate	7.773	149	607483	24.32	ppm		94
66) Fluorene	7.869	166	614772	25.10	ppm		97
67) 4-Chlorophenyl-phenyle...	7.869	204	282662	24.76	ppm		99
68) 4-Nitroaniline	7.885	138	181617	25.77	ppm		83
70) 4,6-Dinitro-2-methylph...	7.906	198	114455	30.08	ppm		94
71) n-Nitrosodiphenylamine	7.970	169	441894	25.47	ppm		97
72) 1,2-Diphenylhydrazine	8.008	77	563256	25.37	ppm		90
74) 4-Bromophenyl-phenylether	8.313	248	187222	25.14	ppm		94
75) Hexachlorobenzene	8.366	284	201892	24.97	ppm		81
76) Pentachlorophenol	8.559	266	284691	53.25	ppm		98
77) Phenanthrene	8.778	178	893026	25.09	ppm		97
78) Anthracene	8.832	178	906683	25.74	ppm		99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P2606\
Data File : 2p59751.D
Acq On : 2 Jun 2016 12:44 pm
Operator : robertl1
Sample : IC2606-25
Misc : op94078,e2p2606
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 02 13:00:51 2016
Quant Method : C:\MSDCHEM\1\METHODS\M2P2606.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu Jun 02 12:41:38 2016
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
79)	Carbazole	9.003	167	885262	25.13	ppm		97
80)	Di-n-butylphthalate	9.404	149	1129807	26.21	ppm		99
81)	Fluoranthene	10.142	202	1110897	25.95	ppm		93
82)	Octadecane	8.644	43	493798	26.66	ppm	#	74
84)	Pyrene	10.431	202	1152832	25.01	ppm		99
86)	Butylbenzylphthalate	11.383	149	521862	24.84	ppm		90
87)	Benzo[a]anthracene	12.110	228	1013155	23.92	ppm		97
88)	3,3'-Dichlorobenzidine	12.105	252	383131	25.56	ppm		94
89)	Chrysene	12.164	228	925261	24.06	ppm		100
90)	bis(2-Ethylhexyl)phtha...	12.260	149	650009	26.19	ppm		99
92)	Di-n-octylphthalate	13.212	149	1215508	26.89	ppm		97
93)	Benzo[b]fluoranthene	13.629	252	1010650	24.85	ppm		92
94)	Benzo[k]fluoranthene	13.667	252	888180	25.90	ppm		91
95)	Benzo[a]pyrene	14.057	252	897109	24.90	ppm		92
96)	Indeno[1,2,3-cd]pyrene	15.667	276	822476	24.78	ppm		85
97)	Dibenz(a,h)acridine	15.319	279	749447	24.22	ppm		95
98)	Dibenz[a,h]anthracene	15.715	278	833745	25.79	ppm		92
99)	7,12-Dimethylbenz(a)an...	13.635	256	449535	25.37	ppm		95
100)	Benzo[g,h,i]perylene	16.106	276	856236	24.41	ppm		89

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

7.6.6

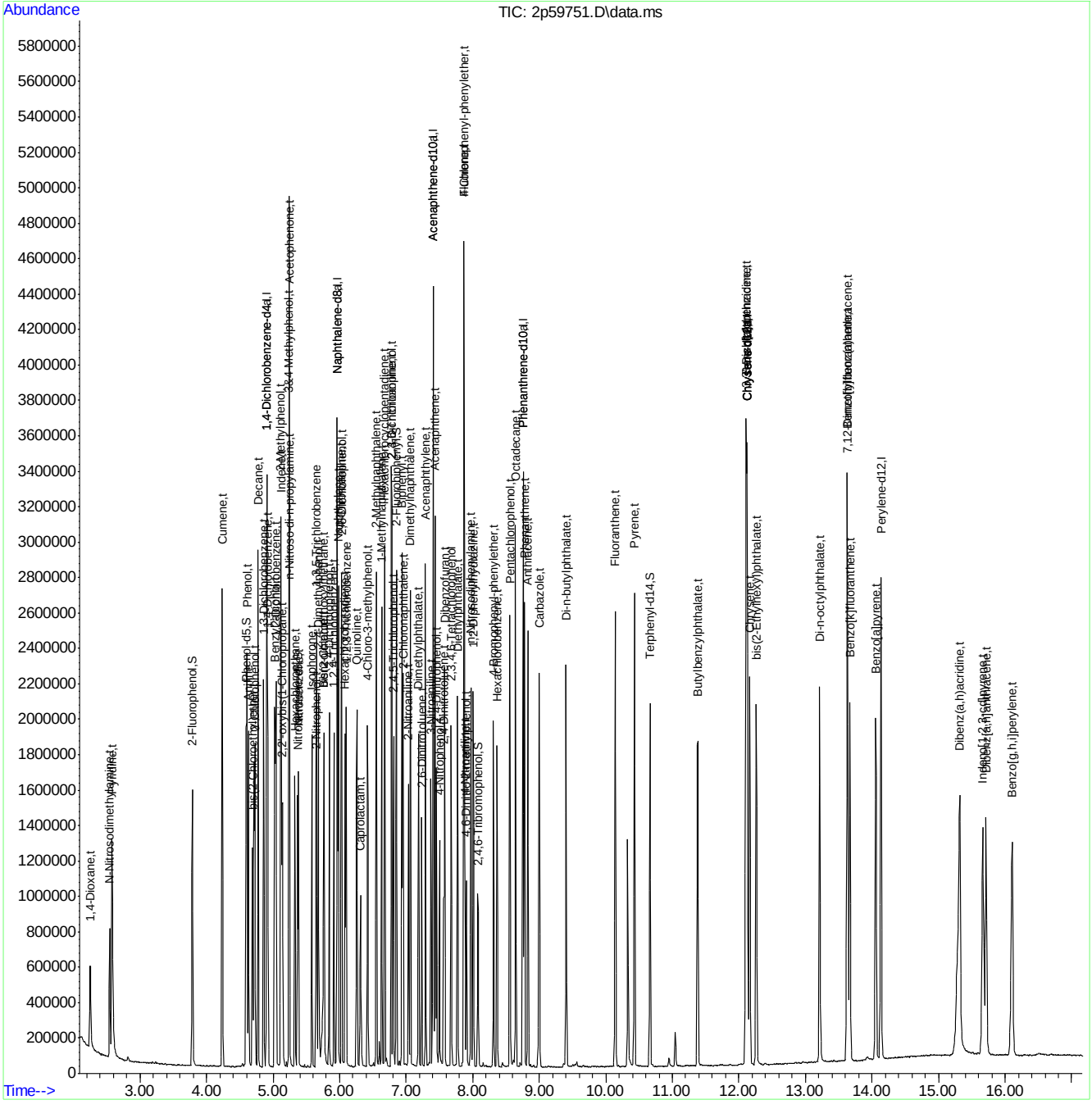
7

SGS ACCUTEST JC21347

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P2606\
Data File : 2p59751.D
Acq On : 2 Jun 2016 12:44 pm
Operator : robertl1
Sample : IC2606-25
Misc : op94078,e2p2606
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 02 13:00:51 2016
Quant Method : C:\MSDCHEM\1\METHODS\M2P2606.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu Jun 02 12:41:38 2016
Response via : Initial Calibration



SGS ACCUTEST JC21347

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P2606\
Data File : 2p59752.D
Acq On : 2 Jun 2016 1:05 pm
Operator : robertl1
Sample : IC2606-10
Misc : op94078,e2p2606
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 02 13:25:40 2016
Quant Method : C:\MSDCHEM\1\METHODS\M2P2606.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu Jun 02 13:01:05 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.906	152	470786	40.00	ppm	0.00
24) Naphthalene-d8	5.965	136	1626893	40.00	ppm	0.00
47) Acenaphthene-d10	7.409	164	906484	40.00	ppm	0.00
69) Phenanthrene-d10	8.757	188	1558188	40.00	ppm	0.00
83) Chrysene-d12	12.126	240	1628198	40.00	ppm	0.00
91) Perylene-d12	14.137	264	1454577	40.00	ppm	0.00
101) 1,4-Dichlorobenzene-d4a	4.906	152	470786	40.00	ppm	0.00
103) Naphthalene-d8a	5.965	136	1626893	40.00	ppm	0.00
105) Acenaphthene-d10a	7.409	164	906484	40.00	ppm	0.00
108) Chrysene-d12a	12.126	240	1628198	40.00	ppm	0.00
110) Phenanthrene-d10a	8.757	188	1558188	40.00	ppm	0.00
113) Chrysene-d12b	12.126	240	1628198	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	3.788	112	172366	9.66	ppm	0.00
Spiked Amount 50.000	Range 11 - 58		Recovery = 19.32%			
8) Phenol-d5	4.595	99	214163	10.23	ppm	0.00
Spiked Amount 50.000	Range 10 - 59		Recovery = 20.46%			
25) Nitrobenzene-d5	5.365	82	159837	10.54	ppm	0.00
Spiked Amount 50.000	Range 19 - 61		Recovery = 21.08%			
51) 2-Fluorobiphenyl	6.852	172	330783	11.04	ppm	0.00
Spiked Amount 50.000	Range 21 - 58		Recovery = 22.08%			
73) 2,4,6-Tribromophenol	8.083	330	44067	10.63	ppm	0.00
Spiked Amount 50.000	Range 12 - 68		Recovery = 21.26%			
85) Terphenyl-d14	10.661	244	343341	10.16	ppm	0.00
Spiked Amount 50.000	Range 16 - 65		Recovery = 20.32%			
111) 1-chlorooctadecane	0.000	57	0	0.00	ppm	
112) O-terphenyl	0.000	230	0	0.00	ppm	
Target Compounds						Qvalue
2) 1,4-Dioxane	2.253	88	75878	9.37	ppm	97
3) Pyridine	2.584	79	185631	10.07	ppm	75
4) N-Nitrosodimethylamine	2.547	74	104646	9.86	ppm #	46
6) Indene	5.119	116	274395	11.14	ppm	99
7) Cumene	4.237	105	411091	10.33	ppm	94
9) Phenol	4.606	94	225147	10.20	ppm	96
10) Aniline	4.627	93	266738	10.69	ppm	90
11) bis(2-Chloroethyl)ether	4.686	93	154004	10.92	ppm	93
12) 2-Chlorophenol	4.724	128	190729	11.16	ppm	93
13) Decane	4.772	57	257924	11.15	ppm	84
14) 1,3-Dichlorobenzene	4.857	146	209840	10.81	ppm	100
15) 1,4-Dichlorobenzene	4.922	146	199812	10.62	ppm	100
16) Benzyl alcohol	5.018	108	107512	11.12	ppm	97
17) 1,2-Dichlorobenzene	5.045	146	188060	10.83	ppm	96
18) Acetophenone	5.242	105	205545	11.21	ppm	93
19) 2-Methylphenol	5.109	108	150012	11.33	ppm	92
20) 2,2'-oxybis(1-Chloropr...	5.141	121	50647	10.67	ppm #	69
21) 3&4-Methylphenol	5.237	108	158231	11.49	ppm	98
22) n-Nitroso-di-n-propyla...	5.242	70	101992	11.08	ppm #	71

SGS ACCUTEST JC21347

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P2606\
Data File : 2p59752.D
Acq On : 2 Jun 2016 1:05 pm
Operator : robertl1
Sample : IC2606-10
Misc : op94078,e2p2606
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 02 13:25:40 2016
Quant Method : C:\MSDCHEM\1\METHODS\M2P2606.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu Jun 02 13:01:05 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
23) Hexachloroethane	5.328	201	65802	10.45	ppm	#	76
26) Nitrobenzene	5.382	77	152279	10.68	ppm		93
27) Quinoline	6.253	129	310798	10.14	ppm		96
28) Isophorone	5.579	82	279536	10.48	ppm		86
29) 2-Nitrophenol	5.644	139	90674	10.98	ppm		95
30) 2,4-Dimethylphenol	5.681	107	156601	10.87	ppm		93
31) Benzoic acid	5.745	105	111189	10.44	ppm		93
32) bis(2-Chloroethoxy)met...	5.761	93	166678	10.89	ppm		97
33) 2,4-Dichlorophenol	5.841	162	142667	10.75	ppm		94
34) 2,6-Dichlorophenol	6.029	162	132178	10.99	ppm		97
35) 1,3,5-Trichlorobenzene	5.654	180	160224	10.95	ppm		95
36) 1,2,4-Trichlorobenzene	5.911	180	149391	10.65	ppm		94
37) 1,2,3-Trichlorobenzene	6.098	180	136450	10.39	ppm		87
38) Naphthalene	5.981	128	452814	10.86	ppm		99
39) 4-Chloroaniline	6.023	127	195389	11.21	ppm		96
40) 2,3-Dichloroaniline	6.783	161	172668	11.22	ppm		93
41) Caprolactam	6.301	113	49925	10.05	ppm		86
42) Hexachlorobutadiene	6.082	225	79667	10.50	ppm		99
43) 4-Chloro-3-methylphenol	6.419	107	132008	10.22	ppm		87
44) 2-Methylnaphthalene	6.548	141	266542	10.80	ppm		97
45) 1-Methylnaphthalene	6.633	141	276915	11.04	ppm		92
46) Dimethylnaphthalene	7.061	156	278332	10.96	ppm		94
48) Hexachlorocyclopentadiene	6.676	237	183567	21.68	ppm		97
49) 2,4,6-Trichlorophenol	6.778	196	96261	10.85	ppm		97
50) 2,4,5-Trichlorophenol	6.804	196	104697	10.94	ppm		98
52) 2-Chloronaphthalene	6.949	162	286706	10.92	ppm		99
53) Biphenyl	6.933	154	371217	10.86	ppm		96
54) 2-Nitroaniline	7.034	65	87754	10.36	ppm	#	74
55) Dimethylphthalate	7.184	163	320607	10.72	ppm		99
56) Acenaphthylene	7.291	152	480591	11.02	ppm		100
57) 2,6-Dinitrotoluene	7.232	165	69449	10.45	ppm		84
58) 3-Nitroaniline	7.371	138	89793	10.68	ppm		97
59) Acenaphthene	7.435	153	280608	10.87	ppm		99
60) 2,4-Dinitrophenol	7.457	184	69983	22.35	ppm	#	100
61) 4-Nitrophenol	7.500	109	38793	10.12	ppm		88
62) Dibenzofuran	7.574	168	386260	10.99	ppm		92
63) 2,4-Dinitrotoluene	7.564	165	91142	10.75	ppm		97
64) 2,3,4,6-Tetrachlorophenol	7.676	232	87036	10.63	ppm		90
65) Diethylphthalate	7.772	149	313210	10.83	ppm		94
66) Fluorene	7.869	166	312937	10.98	ppm		95
67) 4-Chlorophenyl-phenyle...	7.869	204	147363	11.12	ppm		99
68) 4-Nitroaniline	7.879	138	88164	10.70	ppm		87
70) 4,6-Dinitro-2-methylph...	7.906	198	51005	10.97	ppm		89
71) n-Nitrosodiphenylamine	7.970	169	227542	11.06	ppm		98
72) 1,2-Diphenylhydrazine	8.008	77	286160	10.88	ppm		87
74) 4-Bromophenyl-phenylether	8.313	248	89345	10.14	ppm		93
75) Hexachlorobenzene	8.366	284	98700	10.33	ppm		81
76) Pentachlorophenol	8.553	266	137902	21.60	ppm		98
77) Phenanthrene	8.778	178	445002	10.58	ppm		97
78) Anthracene	8.831	178	460245	11.00	ppm		99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P2606\
Data File : 2p59752.D
Acq On : 2 Jun 2016 1:05 pm
Operator : robertl1
Sample : IC2606-10
Misc : op94078,e2p2606
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 02 13:25:40 2016
Quant Method : C:\MSDCHEM\1\METHODS\M2P2606.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu Jun 02 13:01:05 2016
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
79)	Carbazole	8.997	167	440388	10.57	ppm		97
80)	Di-n-butylphthalate	9.404	149	545522	10.62	ppm		99
81)	Fluoranthene	10.142	202	540385	10.61	ppm		92
82)	Octadecane	8.644	43	244919	11.07	ppm	#	75
84)	Pyrene	10.431	202	571436	10.47	ppm		99
86)	Butylbenzylphthalate	11.377	149	247645	9.97	ppm		94
87)	Benzo[a]anthracene	12.110	228	505893	10.16	ppm		98
88)	3,3'-Dichlorobenzidine	12.105	252	185516	10.41	ppm		95
89)	Chrysene	12.158	228	464965	10.27	ppm		98
90)	bis(2-Ethylhexyl)phtha...	12.260	149	302220	10.20	ppm		99
92)	Di-n-octylphthalate	13.212	149	557936	10.30	ppm		97
93)	Benzo[b]fluoranthene	13.624	252	503812	10.48	ppm		93
94)	Benzo[k]fluoranthene	13.661	252	450811	11.04	ppm		91
95)	Benzo[a]pyrene	14.052	252	439990	10.33	ppm		93
96)	Indeno[1,2,3-cd]pyrene	15.662	276	390992	9.97	ppm		84
97)	Dibenz(a,h)acridine	15.319	279	362896	9.96	ppm		92
98)	Dibenz[a,h]anthracene	15.710	278	404777	10.53	ppm		92
99)	7,12-Dimethylbenz(a)an...	13.629	256	226370	10.77	ppm		92
100)	Benzo[g,h,i]perylene	16.100	276	414742	10.03	ppm		89

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

7.6.7

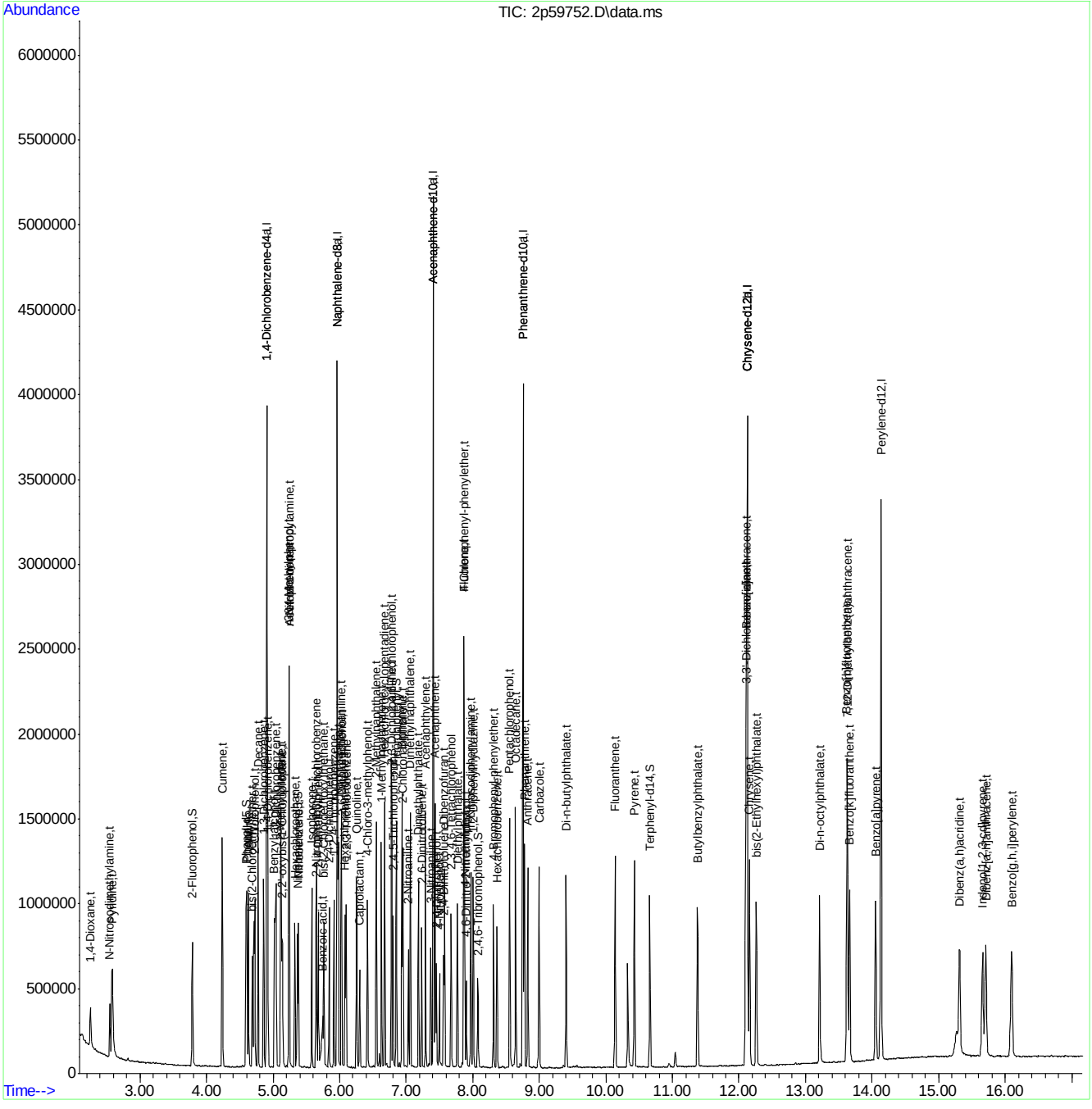
7

SGS ACCUTEST JC21347

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P2606\
Data File : 2p59752.D
Acq On : 2 Jun 2016 1:05 pm
Operator : robertl1
Sample : IC2606-10
Misc : op94078,e2p2606
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 02 13:25:40 2016
Quant Method : C:\MSDCHEM\1\METHODS\M2P2606.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu Jun 02 13:01:05 2016
Response via : Initial Calibration



SGS ACCUTEST JC21347

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P2606\
Data File : 2p59753.D
Acq On : 2 Jun 2016 1:27 pm
Operator : robertl1
Sample : IC2606-5
Misc : op94078,e2p2606
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 02 14:45:18 2016
Quant Method : C:\MSDCHEM\1\METHODS\M2P2606.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu Jun 02 13:25:54 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.906	152	437185	40.00	ppm	0.00
24) Naphthalene-d8	5.959	136	1481209	40.00	ppm	0.00
47) Acenaphthene-d10	7.409	164	834042	40.00	ppm	0.00
69) Phenanthrene-d10	8.751	188	1391951	40.00	ppm	0.00
83) Chrysene-d12	12.121	240	1411461	40.00	ppm	-0.01
91) Perylene-d12	14.137	264	1254899	40.00	ppm	0.00
101) 1,4-Dichlorobenzene-d4a	4.906	152	437185	40.00	ppm	0.00
103) Naphthalene-d8a	5.959	136	1481209	40.00	ppm	0.00
105) Acenaphthene-d10a	7.409	164	834042	40.00	ppm	0.00
108) Chrysene-d12a	12.121	240	1411461	40.00	ppm	-0.01
110) Phenanthrene-d10a	8.751	188	1391951	40.00	ppm	# 0.00
113) Chrysene-d12b	12.121	240	1411461	40.00	ppm	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	3.788	112	80768	4.90	ppm	0.00
Spiked Amount 50.000	Range 11 - 58		Recovery	=	9.80%#	
8) Phenol-d5	4.590	99	98166	5.03	ppm	-0.01
Spiked Amount 50.000	Range 10 - 59		Recovery	=	10.06%	
25) Nitrobenzene-d5	5.365	82	72391	5.20	ppm	0.00
Spiked Amount 50.000	Range 19 - 61		Recovery	=	10.40%#	
51) 2-Fluorobiphenyl	6.852	172	153684	5.49	ppm	0.00
Spiked Amount 50.000	Range 21 - 58		Recovery	=	10.98%#	
73) 2,4,6-Tribromophenol	8.077	330	19048	5.10	ppm	0.00
Spiked Amount 50.000	Range 12 - 68		Recovery	=	10.20%#	
85) Terphenyl-d14	10.661	244	150494	5.13	ppm	0.00
Spiked Amount 50.000	Range 16 - 65		Recovery	=	10.26%#	
111) 1-chlorooctadecane	0.000	57	0	0.00	ppm	
112) O-terphenyl	0.000	230	0	0.00	ppm	
Target Compounds						Qvalue
2) 1,4-Dioxane	2.253	88	35416	4.75	ppm	97
3) Pyridine	2.584	79	86996	5.08	ppm	86
4) N-Nitrosodimethylamine	2.541	74	46680	4.75	ppm #	34
6) Indene	5.119	116	132194	5.69	ppm	100
7) Cumene	4.237	105	189715	5.11	ppm	96
9) Phenol	4.601	94	105544	5.14	ppm	94
10) Aniline	4.627	93	126645	5.41	ppm	92
11) bis(2-Chloroethyl)ether	4.686	93	71009	5.35	ppm	95
12) 2-Chlorophenol	4.724	128	88401	5.48	ppm	87
13) Decane	4.772	57	124566	5.71	ppm	86
14) 1,3-Dichlorobenzene	4.857	146	101778	5.58	ppm	98
15) 1,4-Dichlorobenzene	4.922	146	94298	5.35	ppm	99
16) Benzyl alcohol	5.018	108	48673	5.34	ppm	97
17) 1,2-Dichlorobenzene	5.045	146	89684	5.50	ppm	94
18) Acetophenone	5.237	105	99644	5.75	ppm	88
19) 2-Methylphenol	5.109	108	70009	5.59	ppm	97
20) 2,2'-oxybis(1-Chloropr...	5.136	121	24411	5.49	ppm #	67
21) 3&4-Methylphenol	5.237	108	73303	5.61	ppm	91
22) n-Nitroso-di-n-propyla...	5.242	70	49524	5.71	ppm	84

SGS ACCUTEST JC21347

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P2606\
Data File : 2p59753.D
Acq On : 2 Jun 2016 1:27 pm
Operator : robertl1
Sample : IC2606-5
Misc : op94078,e2p2606
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 02 14:45:18 2016
Quant Method : C:\MSDCHEM\1\METHODS\M2P2606.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu Jun 02 13:25:54 2016
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
23)	Hexachloroethane	5.328	201	31825	5.41	ppm	#	73
26)	Nitrobenzene	5.382	77	72231	5.51	ppm		90
27)	Quinoline	6.253	129	145093	5.19	ppm		95
28)	Isophorone	5.579	82	128547	5.26	ppm		86
29)	2-Nitrophenol	5.644	139	39756	5.21	ppm		96
30)	2,4-Dimethylphenol	5.676	107	70591	5.31	ppm		91
31)	Benzoic acid	5.724	105	44663	4.58	ppm		97
32)	bis(2-Chloroethoxy)met...	5.761	93	75394	5.34	ppm		99
33)	2,4-Dichlorophenol	5.842	162	65663	5.38	ppm		93
34)	2,6-Dichlorophenol	6.029	162	61768	5.56	ppm		98
35)	1,3,5-Trichlorobenzene	5.654	180	74339	5.51	ppm		95
36)	1,2,4-Trichlorobenzene	5.911	180	71540	5.55	ppm		97
37)	1,2,3-Trichlorobenzene	6.098	180	66801	5.56	ppm		89
38)	Naphthalene	5.981	128	212858	5.54	ppm		99
39)	4-Chloroaniline	6.023	127	93447	5.79	ppm		96
40)	2,3-Dichloroaniline	6.778	161	80810	5.67	ppm		94
41)	Caprolactam	6.291	113	21797	4.82	ppm	#	77
42)	Hexachlorobutadiene	6.082	225	39164	5.63	ppm		92
43)	4-Chloro-3-methylphenol	6.414	107	59960	5.08	ppm		95
44)	2-Methylnaphthalene	6.548	141	121392	5.34	ppm		94
45)	1-Methylnaphthalene	6.628	141	129187	5.57	ppm		95
46)	Dimethylnaphthalene	7.061	156	131196	5.60	ppm		98
48)	Hexachlorocyclopentadiene	6.676	237	82517	10.47	ppm		95
49)	2,4,6-Trichlorophenol	6.778	196	45860	5.55	ppm		95
50)	2,4,5-Trichlorophenol	6.804	196	48345	5.42	ppm		98
52)	2-Chloronaphthalene	6.949	162	136841	5.59	ppm		99
53)	Biphenyl	6.933	154	174274	5.47	ppm		93
54)	2-Nitroaniline	7.029	65	39875	5.09	ppm		95
55)	Dimethylphthalate	7.184	163	147888	5.32	ppm		99
56)	Acenaphthylene	7.291	152	222647	5.47	ppm		99
57)	2,6-Dinitrotoluene	7.232	165	30864	5.02	ppm		80
58)	3-Nitroaniline	7.366	138	39324	5.04	ppm		92
59)	Acenaphthene	7.435	153	131366	5.46	ppm		99
60)	2,4-Dinitrophenol	7.451	184	23383	7.98	ppm	#	100
61)	4-Nitrophenol	7.494	109	17365	4.92	ppm		96
62)	Dibenzofuran	7.574	168	182420	5.56	ppm		92
63)	2,4-Dinitrotoluene	7.558	165	39894	5.06	ppm		87
64)	2,3,4,6-Tetrachlorophenol	7.676	232	37908	4.99	ppm		91
65)	Diethylphthalate	7.767	149	140258	5.21	ppm		93
66)	Fluorene	7.869	166	149828	5.63	ppm		98
67)	4-Chlorophenyl-phenyle...	7.869	204	68409	5.52	ppm		95
68)	4-Nitroaniline	7.879	138	40596	5.30	ppm		84
70)	4,6-Dinitro-2-methylph...	7.906	198	19690	4.68	ppm		83
71)	n-Nitrosodiphenylamine	7.970	169	100724	5.40	ppm		98
72)	1,2-Diphenylhydrazine	8.008	77	135203	5.68	ppm		87
74)	4-Bromophenyl-phenylether	8.313	248	40943	5.19	ppm		95
75)	Hexachlorobenzene	8.366	284	46199	5.39	ppm		82
76)	Pentachlorophenol	8.553	266	57814	10.02	ppm		95
77)	Phenanthrene	8.778	178	211324	5.58	ppm		98
78)	Anthracene	8.826	178	208967	5.51	ppm		97

SGS ACCUTEST JC21347

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P2606\
Data File : 2p59753.D
Acq On : 2 Jun 2016 1:27 pm
Operator : robertl1
Sample : IC2606-5
Misc : op94078,e2p2606
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 02 14:45:18 2016
Quant Method : C:\MSDCHEM\1\METHODS\M2P2606.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu Jun 02 13:25:54 2016
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
79)	Carbazole	8.997	167	203964	5.44 ppm		96
80)	Di-n-butylphthalate	9.404	149	240817	5.20 ppm		98
81)	Fluoranthene	10.136	202	234805	5.12 ppm		94
82)	Octadecane	8.644	43	108867	5.42 ppm	#	73
84)	Pyrene	10.425	202	251232	5.27 ppm		99
86)	Butylbenzylphthalate	11.377	149	104336	4.85 ppm		95
87)	Benzo[a]anthracene	12.105	228	219855	5.08 ppm		99
88)	3,3'-Dichlorobenzidine	12.105	252	79607	5.12 ppm		94
89)	Chrysene	12.158	228	209060	5.31 ppm		99
90)	bis(2-Ethylhexyl)phtha...	12.260	149	131038	5.09 ppm		96
92)	Di-n-octylphthalate	13.212	149	223587	4.76 ppm		99
93)	Benzo[b]fluoranthene	13.624	252	215433	5.16 ppm		92
94)	Benzo[k]fluoranthene	13.661	252	203684	5.70 ppm		90
95)	Benzo[a]pyrene	14.052	252	185168	5.02 ppm		92
96)	Indeno[1,2,3-cd]pyrene	15.656	276	161145	4.77 ppm		89
97)	Dibenz(a,h)acridine	15.314	279	151685	4.83 ppm		95
98)	Dibenz[a,h]anthracene	15.710	278	163298	4.89 ppm		93
99)	7,12-Dimethylbenz(a)an...	13.629	256	94677	5.16 ppm		94
100)	Benzo[g,h,i]perylene	16.095	276	174087	4.88 ppm		86

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

7.6.8

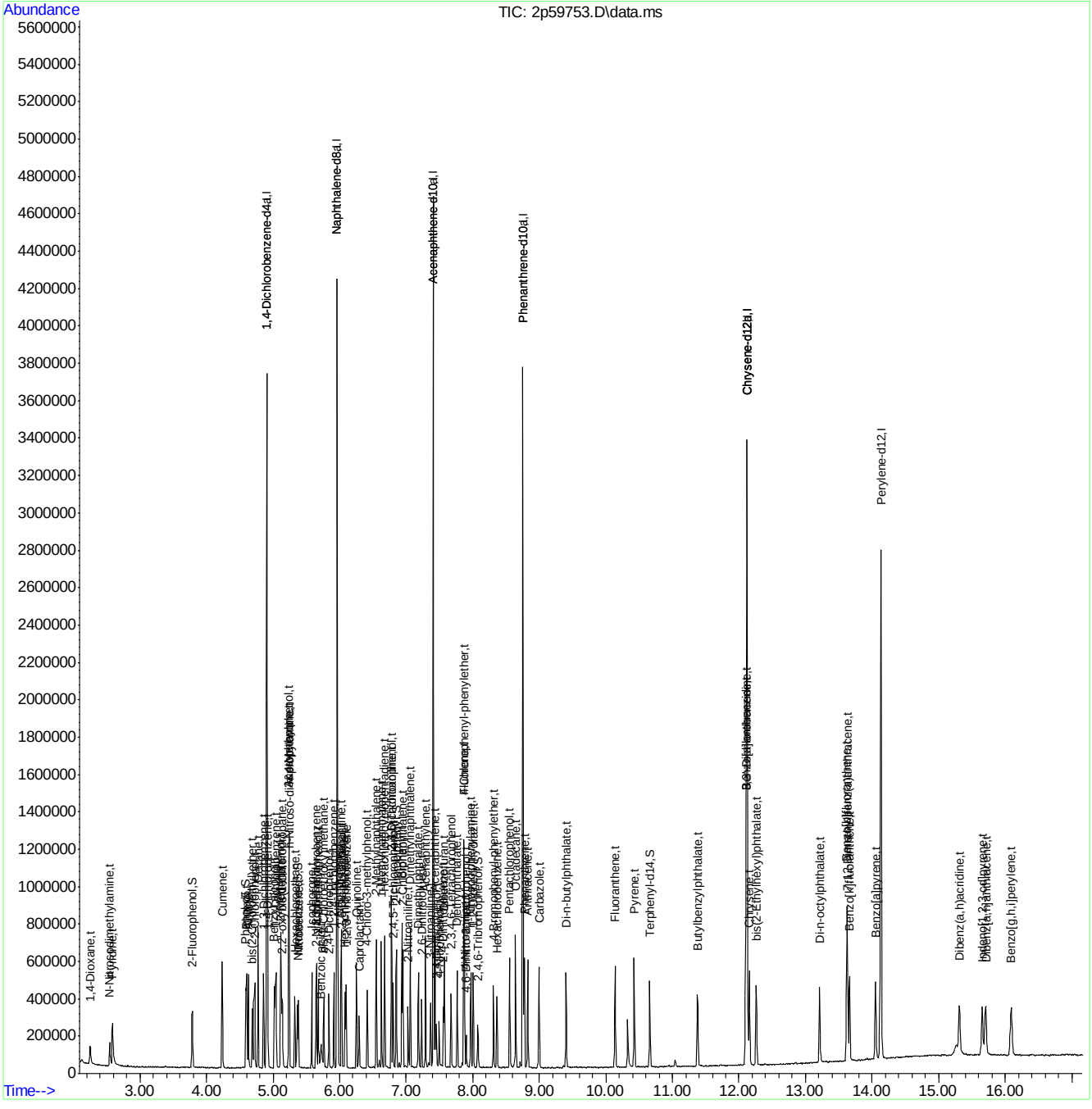
7

SGS ACCUTEST JC21347

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P2606\
Data File : 2p59753.D
Acq On : 2 Jun 2016 1:27 pm
Operator : robertl1
Sample : IC2606-5
Misc : op94078,e2p2606
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 02 14:45:18 2016
Quant Method : C:\MSDCHEM\1\METHODS\M2P2606.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu Jun 02 13:25:54 2016
Response via : Initial Calibration



M2P2606.M Thu Jun 02 14:45:24 2016 RPT1 Page: 4

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P2607\
Data File : 2p59755.D
Acq On : 2 Jun 2016 3:08 pm
Operator : robertl1
Sample : ICC2607-50
Misc : op94078,e2p2607
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 02 16:01:46 2016
Quant Method : C:\MSDCHEM\1\METHODS\M2P2606.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu Jun 02 16:00:39 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.906	152	401477	40.00	ppm	0.00
24) Naphthalene-d8	5.959	136	1457278	40.00	ppm	0.00
47) Acenaphthene-d10	7.409	164	783226	40.00	ppm	0.00
69) Phenanthrene-d10	8.751	188	1284138	40.00	ppm	0.00
83) Chrysene-d12	12.126	240	1256209	40.00	ppm	0.00
91) Perylene-d12	14.137	264	1154989	40.00	ppm	0.00
101) 1,4-Dichlorobenzene-d4a	4.906	152	401477	40.00	ppm	0.00
103) Naphthalene-d8a	5.959	136	1457278	40.00	ppm	0.00
105) Acenaphthene-d10a	7.409	164	783226	40.00	ppm	0.00
108) Chrysene-d12a	12.126	240	1256209	40.00	ppm	0.00
110) Phenanthrene-d10a	8.751	188	1284138	40.00	ppm	# 0.00
113) Chrysene-d12b	12.126	240	1256209	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	0.000	112	0	0.00	ppm	
Spiked Amount 50.000	Range 11 - 58		Recovery = 0.00%#			
8) Phenol-d5	0.000	99	0	0.00	ppm	
Spiked Amount 50.000	Range 10 - 59		Recovery = 0.00%#			
25) Nitrobenzene-d5	0.000	82	0	0.00	ppm	
Spiked Amount 50.000	Range 19 - 61		Recovery = 0.00%#			
51) 2-Fluorobiphenyl	0.000	172	0d	0.00	ppm	
Spiked Amount 50.000	Range 21 - 58		Recovery = 0.00%#			
73) 2,4,6-Tribromophenol	0.000	330	0	0.00	ppm	
Spiked Amount 50.000	Range 12 - 68		Recovery = 0.00%#			
85) Terphenyl-d14	0.000	244	0	0.00	ppm	
Spiked Amount 50.000	Range 16 - 65		Recovery = 0.00%#			
111) 1-chlorooctadecane	10.035	57	668697	50.00	ppm	0.00
112) O-terphenyl	9.168	230	841079	50.00	ppm	0.00
Target Compounds						Qvalue
102) Benzaldehyde	4.536	105	474697	50.00	ppm	91
104) Hydroquinone	6.291	110	619181	50.00	ppm	95
106) Atrazine	8.473	215	172973	50.00	ppm	95
107) 1,2,4,5-Tetrachloroben...	6.687	216	548654	50.00	ppm	98
109) Benzidine	10.334	184	730989	53.41	ppm	97

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

7.6.9

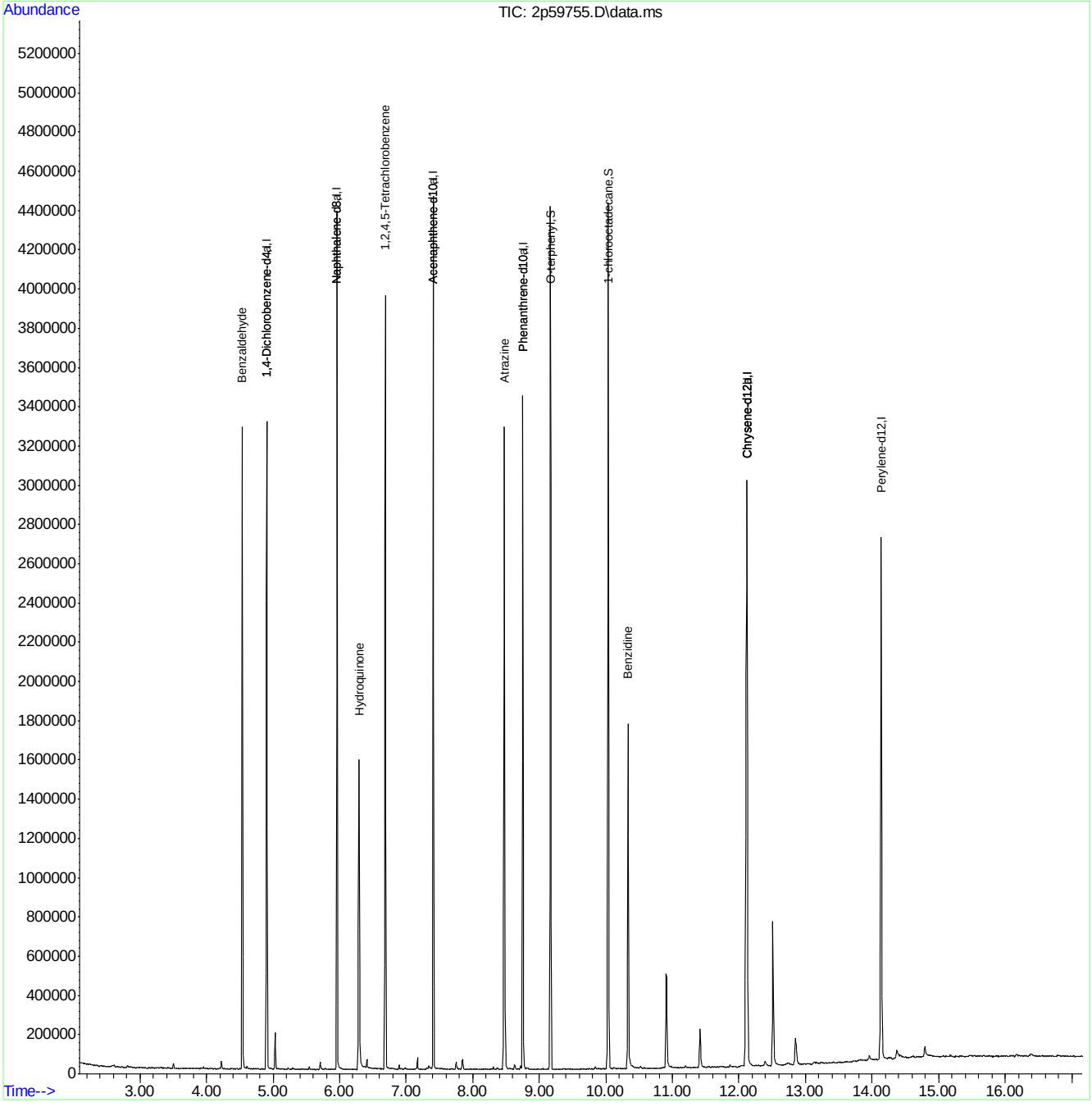
7

SGS ACCUTEST JC21347

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P2607\
Data File : 2p59755.D
Acq On : 2 Jun 2016 3:08 pm
Operator : robertl1
Sample : ICC2607-50
Misc : op94078,e2p2607
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 02 16:01:46 2016
Quant Method : C:\MSDCHEM\1\METHODS\M2P2606.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu Jun 02 16:00:39 2016
Response via : Initial Calibration



SGS ACCUTEST JC21347

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P2607\
Data File : 2p59756.D
Acq On : 2 Jun 2016 3:30 pm
Operator : robertl1
Sample : IC2607-1
Misc : op94078,e2p2607
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 02 16:04:17 2016
Quant Method : C:\MSDCHEM\1\METHODS\M2P2606.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu Jun 02 16:00:39 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.905	152	433726	40.00	ppm	0.00
24) Naphthalene-d8	5.959	136	1515779	40.00	ppm	0.00
47) Acenaphthene-d10	7.409	164	847610	40.00	ppm	0.00
69) Phenanthrene-d10	8.751	188	1394314	40.00	ppm	0.00
83) Chrysene-d12	12.121	240	1370543	40.00	ppm	-0.01
91) Perylene-d12	14.137	264	1209601	40.00	ppm	0.00
101) 1,4-Dichlorobenzene-d4a	4.905	152	433726	40.00	ppm	0.00
103) Naphthalene-d8a	5.959	136	1515779	40.00	ppm	0.00
105) Acenaphthene-d10a	7.409	164	847610	40.00	ppm	0.00
108) Chrysene-d12a	12.121	240	1370543	40.00	ppm	0.00
110) Phenanthrene-d10a	8.751	188	1394314	40.00	ppm	0.00
113) Chrysene-d12b	12.121	240	1370543	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	0.000	112	0	0.00	ppm	
Spiked Amount 50.000	Range 11 - 58		Recovery = 0.00%#			
8) Phenol-d5	0.000	99	0	0.00	ppm	
Spiked Amount 50.000	Range 10 - 59		Recovery = 0.00%#			
25) Nitrobenzene-d5	0.000	82	0	0.00	ppm	
Spiked Amount 50.000	Range 19 - 61		Recovery = 0.00%#			
51) 2-Fluorobiphenyl	0.000	172	0d	0.00	ppm	
Spiked Amount 50.000	Range 21 - 58		Recovery = 0.00%#			
73) 2,4,6-Tribromophenol	0.000	330	0	0.00	ppm	
Spiked Amount 50.000	Range 12 - 68		Recovery = 0.00%#			
85) Terphenyl-d14	0.000	244	0	0.00	ppm	
Spiked Amount 50.000	Range 16 - 65		Recovery = 0.00%#			
111) 1-chlorooctadecane	10.035	57	14421	0.99	ppm	0.00
112) O-terphenyl	9.168	230	20675	1.13	ppm	0.00
Target Compounds						Qvalue
102) Benzaldehyde	4.536	105	10620	1.04	ppm	85
104) Hydroquinone	6.280	110	8162	0.63	ppm	97
106) Atrazine	8.468	215	3704	0.99	ppm	88
107) 1,2,4,5-Tetrachloroben...	6.687	216	14277	1.20	ppm	97
109) Benzidine	10.329	184	9668	0.65	ppm	99

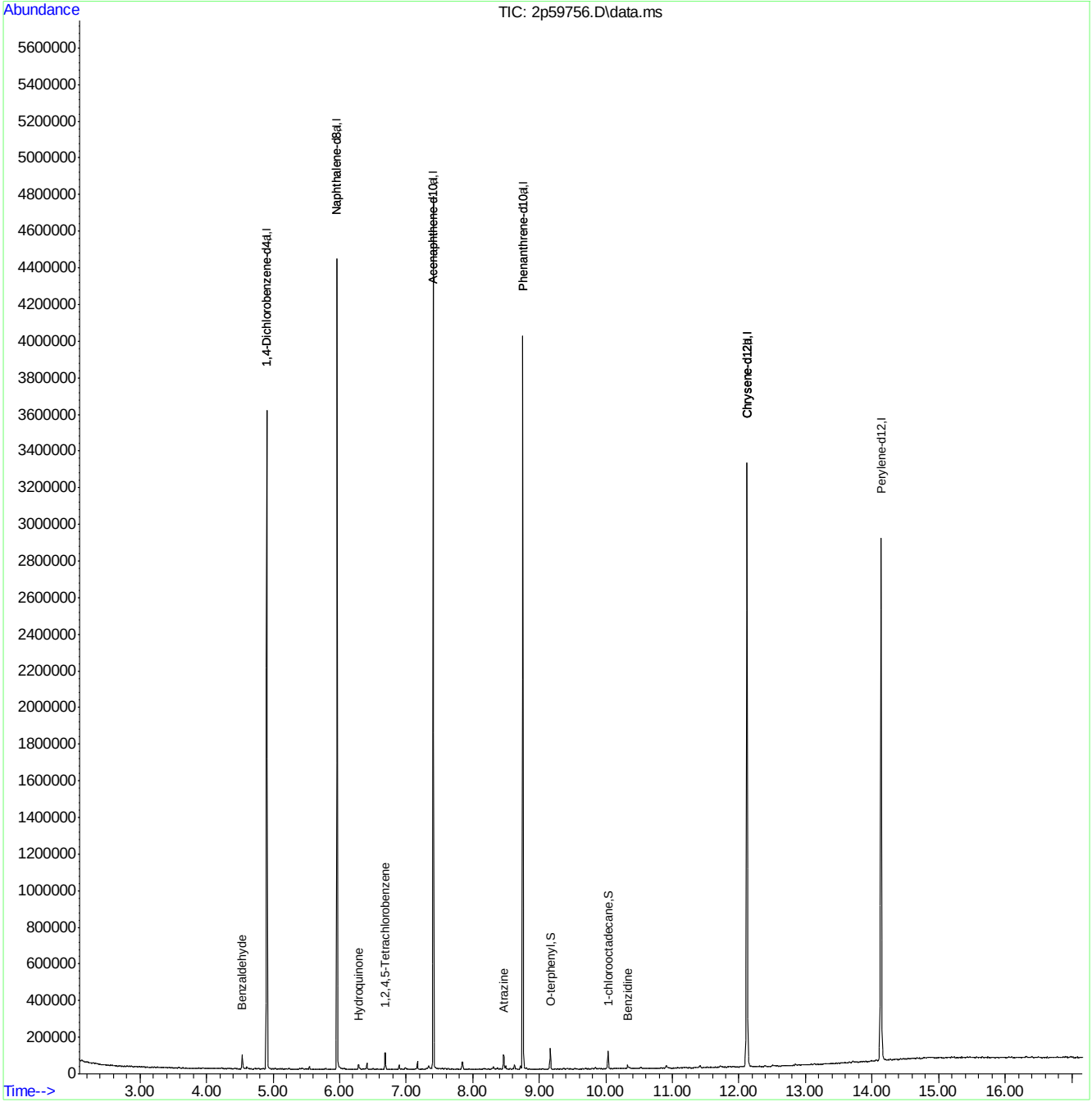
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC21347

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P2607\
Data File : 2p59756.D
Acq On : 2 Jun 2016 3:30 pm
Operator : robertl1
Sample : IC2607-1
Misc : op94078,e2p2607
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 02 16:04:17 2016
Quant Method : C:\MSDCHEM\1\METHODS\M2P2606.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu Jun 02 16:00:39 2016
Response via : Initial Calibration



SGS ACCUTEST JC21347

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P2607\
Data File : 2p59757.D
Acq On : 2 Jun 2016 3:51 pm
Operator : robertl1
Sample : IC2607-100
Misc : op94078,e2p2607
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 02 16:10:24 2016
Quant Method : C:\MSDCHEM\1\METHODS\M2P2606.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu Jun 02 16:05:04 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1,4-Dichlorobenzene-d4	4.905	152	481104	40.00 ppm	0.00
24) Naphthalene-d8	5.959	136	1699641	40.00 ppm	0.00
47) Acenaphthene-d10	7.409	164	910278	40.00 ppm	0.00
69) Phenanthrene-d10	8.751	188	1449749	40.00 ppm	0.00
83) Chrysene-d12	12.121	240	1329614	40.00 ppm	-0.01
91) Perylene-d12	14.132	264	1311256	40.00 ppm	-0.01
101) 1,4-Dichlorobenzene-d4a	4.905	152	481104	40.00 ppm	0.00
103) Naphthalene-d8a	5.959	136	1699641	40.00 ppm	# 0.00
105) Acenaphthene-d10a	7.409	164	910278	40.00 ppm	0.00
108) Chrysene-d12a	12.121	240	1329614	40.00 ppm	0.00
110) Phenanthrene-d10a	8.751	188	1449749	40.00 ppm	# 0.00
113) Chrysene-d12b	12.121	240	1329614	40.00 ppm	0.00
System Monitoring Compounds					
5) 2-Fluorophenol	0.000	112	0	0.00 ppm	
Spiked Amount 50.000	Range 11 - 58		Recovery =	0.00%#	
8) Phenol-d5	0.000	99	0	0.00 ppm	
Spiked Amount 50.000	Range 10 - 59		Recovery =	0.00%#	
25) Nitrobenzene-d5	0.000	82	0	0.00 ppm	
Spiked Amount 50.000	Range 19 - 61		Recovery =	0.00%#	
51) 2-Fluorobiphenyl	0.000	172	0d	0.00 ppm	
Spiked Amount 50.000	Range 21 - 58		Recovery =	0.00%#	
73) 2,4,6-Tribromophenol	0.000	330	0	0.00 ppm	
Spiked Amount 50.000	Range 12 - 68		Recovery =	0.00%#	
85) Terphenyl-d14	0.000	244	0	0.00 ppm	
Spiked Amount 50.000	Range 16 - 65		Recovery =	0.00%#	
111) 1-chlorooctadecane	10.040	57	1378923	91.64 ppm	0.00
112) O-terphenyl	9.168	230	1719559	84.94 ppm	0.00
Target Compounds					Qvalue
102) Benzaldehyde	4.542	105	614098	53.04 ppm	91
104) Hydroquinone	6.307	110	1387229	117.59 ppm	95
106) Atrazine	8.478	215	361177	90.31 ppm	95
107) 1,2,4,5-Tetrachloroben...	6.687	216	1109823	79.03 ppm	99
109) Benzidine	10.334	184	1265226	106.03 ppm	98

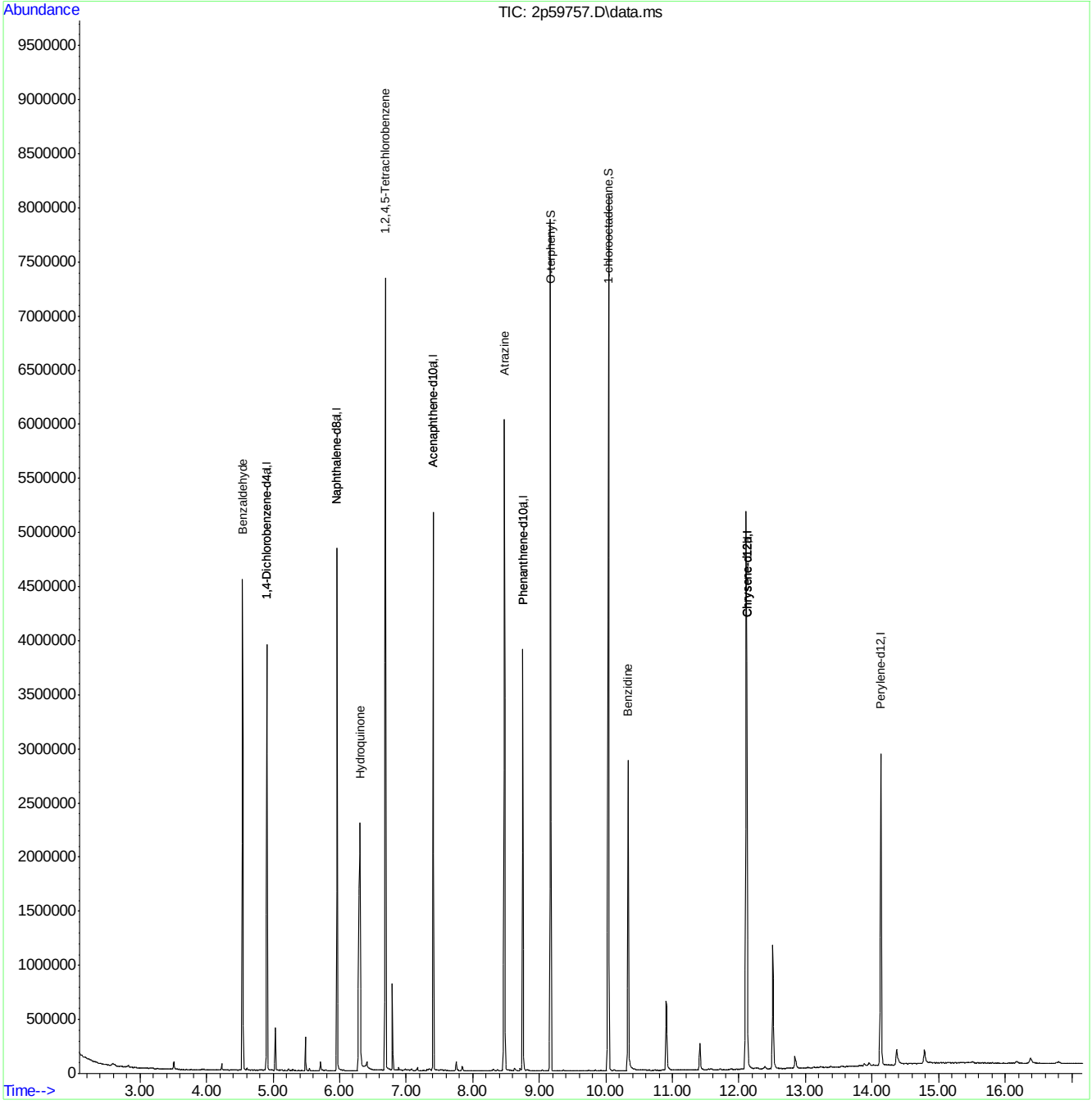
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC21347

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P2607\
Data File : 2p59757.D
Acq On : 2 Jun 2016 3:51 pm
Operator : robertl1
Sample : IC2607-100
Misc : op94078,e2p2607
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 02 16:10:24 2016
Quant Method : C:\MSDCHEM\1\METHODS\M2P2606.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu Jun 02 16:05:04 2016
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P2607\
Data File : 2p59758.D
Acq On : 2 Jun 2016 4:13 pm
Operator : robertl1
Sample : IC2607-2
Misc : op94078,e2p2607
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 02 16:30:14 2016
Quant Method : C:\MSDCHEM\1\METHODS\M2P2606.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu Jun 02 16:11:50 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.905	152	447379	40.00	ppm	0.00
24) Naphthalene-d8	5.959	136	1579053	40.00	ppm	0.00
47) Acenaphthene-d10	7.409	164	879519	40.00	ppm	0.00
69) Phenanthrene-d10	8.751	188	1450821	40.00	ppm	0.00
83) Chrysene-d12	12.121	240	1437292	40.00	ppm	-0.01
91) Perylene-d12	14.137	264	1246883	40.00	ppm	0.00
101) 1,4-Dichlorobenzene-d4a	4.905	152	447379	40.00	ppm	0.00
103) Naphthalene-d8a	5.959	136	1579053	40.00	ppm	# 0.00
105) Acenaphthene-d10a	7.409	164	879519	40.00	ppm	0.00
108) Chrysene-d12a	12.121	240	1437292	40.00	ppm	0.00
110) Phenanthrene-d10a	8.751	188	1450821	40.00	ppm	# 0.00
113) Chrysene-d12b	12.121	240	1437292	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	0.000	112	0	0.00	ppm	
Spiked Amount 50.000	Range 11 - 58		Recovery = 0.00%#			
8) Phenol-d5	0.000	99	0	0.00	ppm	
Spiked Amount 50.000	Range 10 - 59		Recovery = 0.00%#			
25) Nitrobenzene-d5	0.000	82	0	0.00	ppm	
Spiked Amount 50.000	Range 19 - 61		Recovery = 0.00%#			
51) 2-Fluorobiphenyl	0.000	172	0d	0.00	ppm	
Spiked Amount 50.000	Range 21 - 58		Recovery = 0.00%#			
73) 2,4,6-Tribromophenol	0.000	330	0	0.00	ppm	
Spiked Amount 50.000	Range 12 - 68		Recovery = 0.00%#			
85) Terphenyl-d14	0.000	244	0	0.00	ppm	
Spiked Amount 50.000	Range 16 - 65		Recovery = 0.00%#			
111) 1-chlorooctadecane	10.035	57	31704	2.17	ppm	0.00
112) O-terphenyl	9.163	230	43743	2.27	ppm	0.00
Target Compounds						Qvalue
102) Benzaldehyde	4.536	105	24412	2.69	ppm	92
104) Hydroquinone	6.280	110	21214	1.83	ppm	92
106) Atrazine	8.468	215	8088	2.16	ppm #	83
107) 1,2,4,5-Tetrachloroben...	6.687	216	28860	2.29	ppm	96
109) Benzidine	10.329	184	17550	1.33	ppm	97

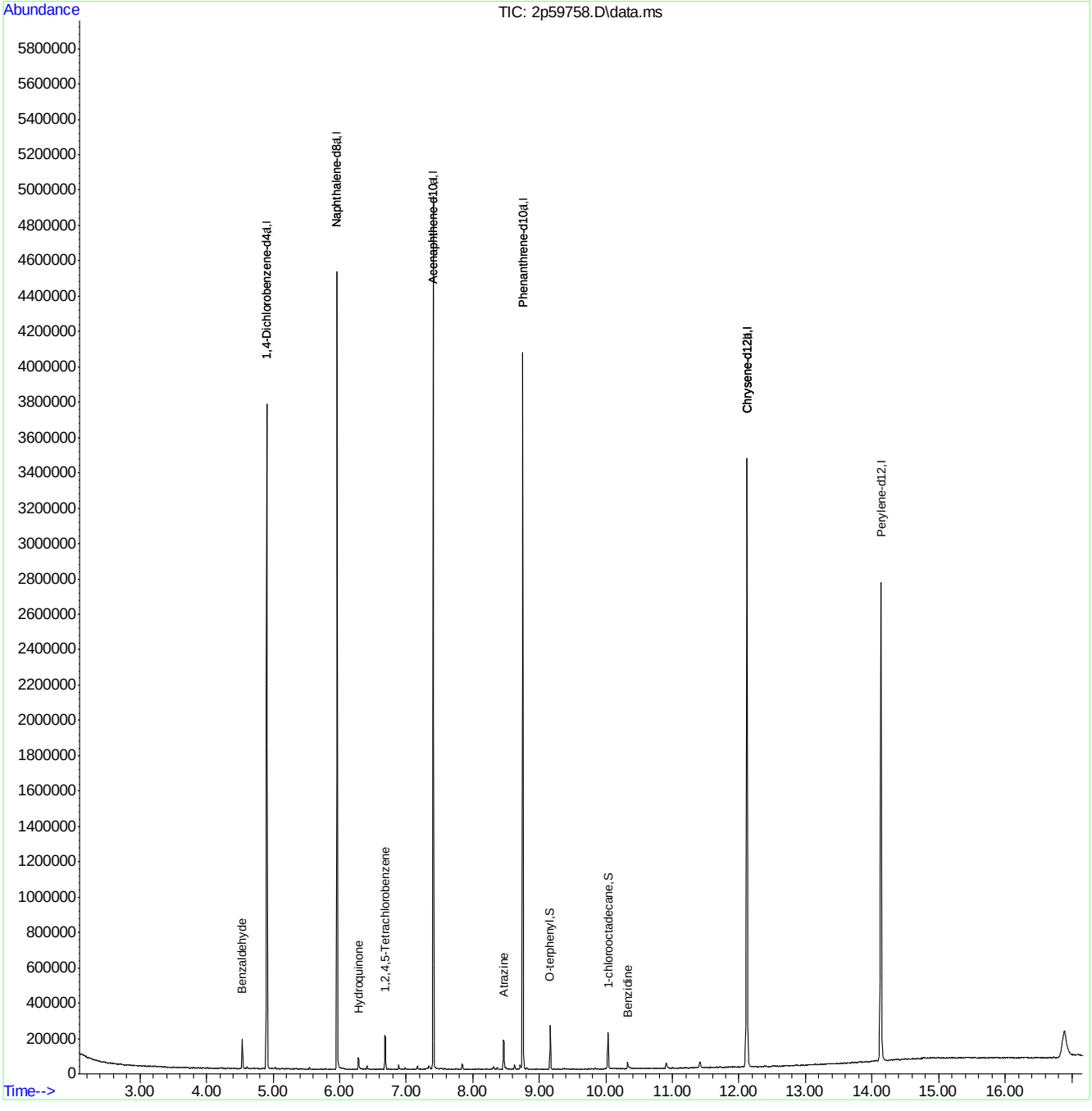
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC21347

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P2607\
Data File : 2p59758.D
Acq On : 2 Jun 2016 4:13 pm
Operator : robertl1
Sample : IC2607-2
Misc : op94078,e2p2607
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 02 16:30:14 2016
Quant Method : C:\MSDCHEM\1\METHODS\M2P2606.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu Jun 02 16:11:50 2016
Response via : Initial Calibration



SGS ACCUTEST JC21347

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P2607\
Data File : 2p59759.D
Acq On : 2 Jun 2016 4:35 pm
Operator : robertl1
Sample : IC2607-80
Misc : op94078,e2p2607
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 02 16:58:28 2016
Quant Method : C:\MSDCHEM\1\METHODS\M2P2606.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu Jun 02 16:31:31 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.906	152	397534	40.00	ppm	0.00
24) Naphthalene-d8	5.959	136	1432265	40.00	ppm	0.00
47) Acenaphthene-d10	7.409	164	749165	40.00	ppm	0.00
69) Phenanthrene-d10	8.751	188	1223892	40.00	ppm	0.00
83) Chrysene-d12	12.121	240	1177888	40.00	ppm	-0.01
91) Perylene-d12	14.132	264	1089420	40.00	ppm	-0.01
101) 1,4-Dichlorobenzene-d4a	4.906	152	397534	40.00	ppm	0.00
103) Naphthalene-d8a	5.959	136	1432265	40.00	ppm	# 0.00
105) Acenaphthene-d10a	7.409	164	749165	40.00	ppm	0.00
108) Chrysene-d12a	12.121	240	1177888	40.00	ppm	0.00
110) Phenanthrene-d10a	8.751	188	1223892	40.00	ppm	# 0.00
113) Chrysene-d12b	12.121	240	1177888	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	0.000	112	0	0.00	ppm	
Spiked Amount 50.000	Range 11 - 58		Recovery = 0.00%#			
8) Phenol-d5	0.000	99	0	0.00	ppm	
Spiked Amount 50.000	Range 10 - 59		Recovery = 0.00%#			
25) Nitrobenzene-d5	0.000	82	0	0.00	ppm	
Spiked Amount 50.000	Range 19 - 61		Recovery = 0.00%#			
51) 2-Fluorobiphenyl	0.000	172	0d	0.00	ppm	
Spiked Amount 50.000	Range 21 - 58		Recovery = 0.00%#			
73) 2,4,6-Tribromophenol	0.000	330	0	0.00	ppm	
Spiked Amount 50.000	Range 12 - 68		Recovery = 0.00%#			
85) Terphenyl-d14	0.000	244	0	0.00	ppm	
Spiked Amount 50.000	Range 16 - 65		Recovery = 0.00%#			
111) 1-chlorooctadecane	10.035	57	989287	78.49	ppm	0.00
112) O-terphenyl	9.168	230	1210383	72.10	ppm	0.00
Target Compounds						Qvalue
102) Benzaldehyde	4.542	105	601119	68.59	ppm	92
104) Hydroquinone	6.291	110	941443	91.41	ppm	95
106) Atrazine	8.473	215	250582	77.10	ppm	99
107) 1,2,4,5-Tetrachloroben...	6.687	216	791095	71.05	ppm	97
109) Benzidine	10.334	184	850278	86.01	ppm	98

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

7.6.13

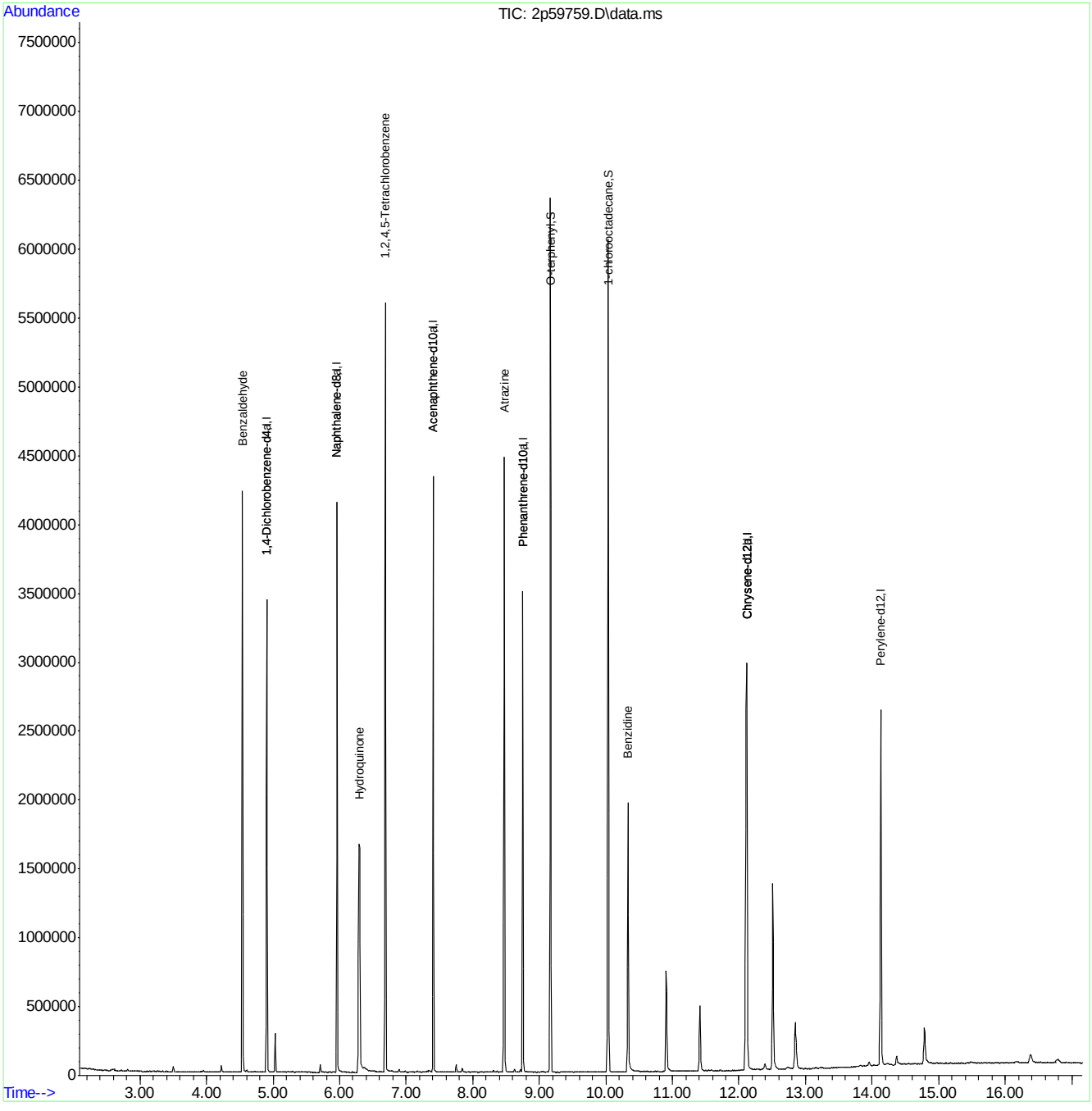
7

SGS ACCUTEST JC21347

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P2607\
Data File : 2p59759.D
Acq On : 2 Jun 2016 4:35 pm
Operator : robertl1
Sample : IC2607-80
Misc : op94078,e2p2607
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 02 16:58:28 2016
Quant Method : C:\MSDCHEM\1\METHODS\M2P2606.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu Jun 02 16:31:31 2016
Response via : Initial Calibration



SGS ACCUTEST JC21347

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P2607\
Data File : 2p59760.D
Acq On : 2 Jun 2016 4:57 pm
Operator : robertl1
Sample : IC2607-5
Misc : op94078,e2p2607
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 02 17:12:53 2016
Quant Method : C:\MSDCHEM\1\METHODS\M2P2606.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu Jun 02 16:59:42 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.905	152	415223	40.00	ppm	0.00
24) Naphthalene-d8	5.959	136	1480660	40.00	ppm	0.00
47) Acenaphthene-d10	7.409	164	805416	40.00	ppm	0.00
69) Phenanthrene-d10	8.751	188	1363992	40.00	ppm	0.00
83) Chrysene-d12	12.121	240	1326369	40.00	ppm	-0.01
91) Perylene-d12	14.132	264	1164888	40.00	ppm	-0.01
101) 1,4-Dichlorobenzene-d4a	4.905	152	415223	40.00	ppm	0.00
103) Naphthalene-d8a	5.959	136	1480660	40.00	ppm	0.00
105) Acenaphthene-d10a	7.409	164	805416	40.00	ppm	0.00
108) Chrysene-d12a	12.121	240	1326369	40.00	ppm	0.00
110) Phenanthrene-d10a	8.751	188	1363992	40.00	ppm	0.00
113) Chrysene-d12b	12.121	240	1326369	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	0.000	112	0	0.00	ppm	
Spiked Amount 50.000	Range 11 - 58		Recovery = 0.00%#			
8) Phenol-d5	0.000	99	0	0.00	ppm	
Spiked Amount 50.000	Range 10 - 59		Recovery = 0.00%#			
25) Nitrobenzene-d5	0.000	82	0	0.00	ppm	
Spiked Amount 50.000	Range 19 - 61		Recovery = 0.00%#			
51) 2-Fluorobiphenyl	0.000	172	0d	0.00	ppm	
Spiked Amount 50.000	Range 21 - 58		Recovery = 0.00%#			
73) 2,4,6-Tribromophenol	0.000	330	0	0.00	ppm	
Spiked Amount 50.000	Range 12 - 68		Recovery = 0.00%#			
85) Terphenyl-d14	0.000	244	0	0.00	ppm	
Spiked Amount 50.000	Range 16 - 65		Recovery = 0.00%#			
111) 1-chlorooctadecane	10.035	57	77758	5.56	ppm	0.00
112) O-terphenyl	9.163	230	104783	5.71	ppm	0.00
Target Compounds						Qvalue
102) Benzaldehyde	4.536	105	57011	6.41	ppm	90
104) Hydroquinone	6.280	110	59592	5.44	ppm	96
106) Atrazine	8.468	215	18499	5.33	ppm	89
107) 1,2,4,5-Tetrachloroben...	6.681	216	67986	5.81	ppm	96
109) Benzidine	10.329	184	41357	3.66	ppm	96

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

7.6.14

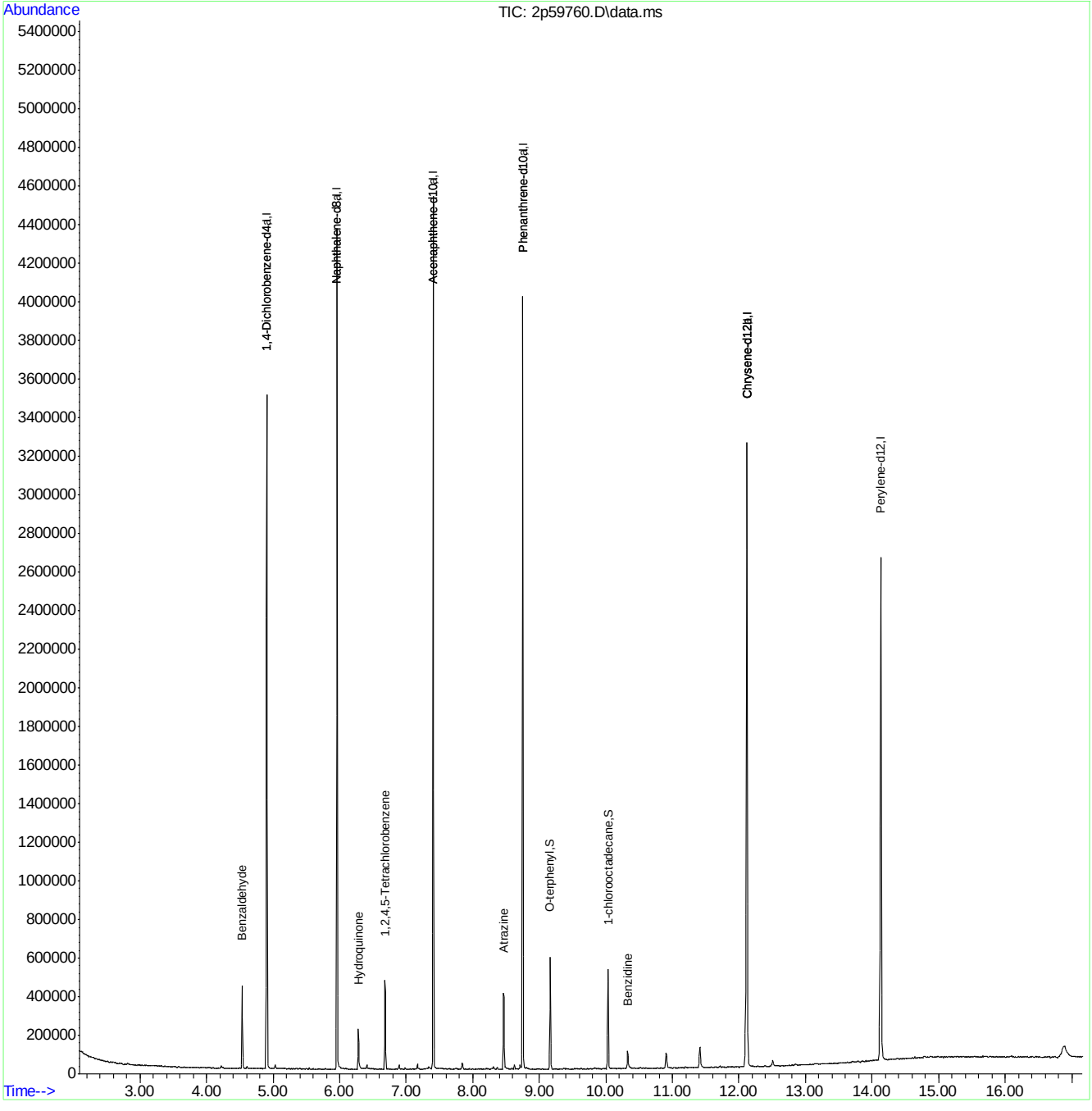
7

SGS ACCUTEST JC21347

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P2607\
Data File : 2p59760.D
Acq On : 2 Jun 2016 4:57 pm
Operator : robertl1
Sample : IC2607-5
Misc : op94078,e2p2607
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 02 17:12:53 2016
Quant Method : C:\MSDCHEM\1\METHODS\M2P2606.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu Jun 02 16:59:42 2016
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P2607\
Data File : 2p59761.D
Acq On : 2 Jun 2016 5:19 pm
Operator : robertl1
Sample : IC2607-25
Misc : op94078,e2p2607
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 03 08:50:21 2016
Quant Method : C:\MSDCHEM\1\METHODS\M2P2606.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu Jun 02 17:14:07 2016
Response via : Initial Calibration

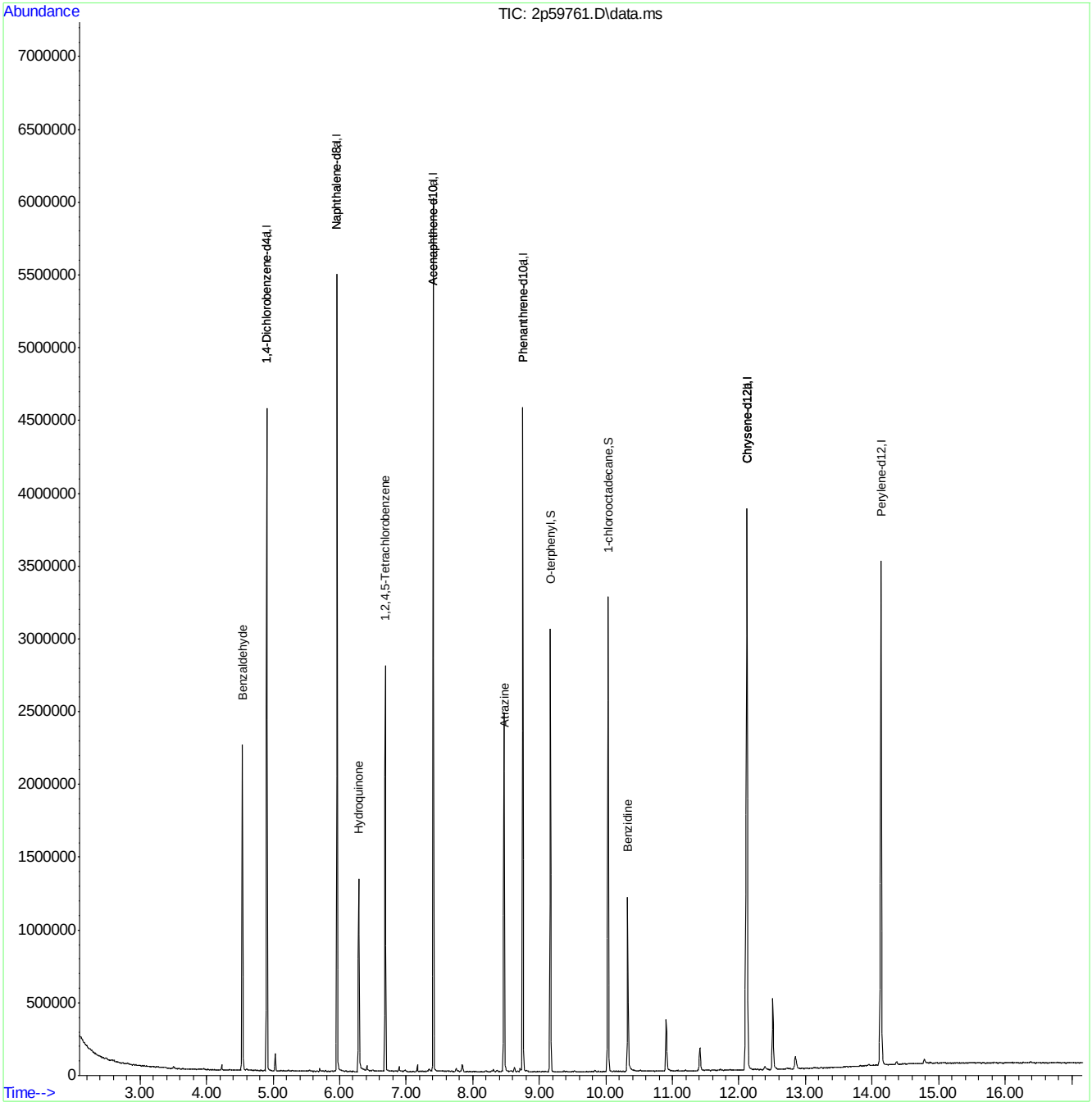
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1,4-Dichlorobenzene-d4	4.906	152	553962	40.00 ppm	0.00
24) Naphthalene-d8	5.959	136	1959076	40.00 ppm	0.00
47) Acenaphthene-d10	7.409	164	1069623	40.00 ppm	0.00
69) Phenanthrene-d10	8.751	188	1769110	40.00 ppm	0.00
83) Chrysene-d12	12.121	240	1730447	40.00 ppm	-0.01
91) Perylene-d12	14.137	264	1598722	40.00 ppm	0.00
101) 1,4-Dichlorobenzene-d4a	4.906	152	553962	40.00 ppm	0.00
103) Naphthalene-d8a	5.959	136	1959076	40.00 ppm	# 0.00
105) Acenaphthene-d10a	7.409	164	1069623	40.00 ppm	0.00
108) Chrysene-d12a	12.121	240	1730447	40.00 ppm	0.00
110) Phenanthrene-d10a	8.751	188	1769110	40.00 ppm	# 0.00
113) Chrysene-d12b	12.121	240	1730447	40.00 ppm	0.00
System Monitoring Compounds					
5) 2-Fluorophenol	0.000	112	0	0.00 ppm	
Spiked Amount 50.000	Range 11 - 58		Recovery =	0.00%#	
8) Phenol-d5	0.000	99	0	0.00 ppm	
Spiked Amount 50.000	Range 10 - 59		Recovery =	0.00%#	
25) Nitrobenzene-d5	0.000	82	0	0.00 ppm	
Spiked Amount 50.000	Range 19 - 61		Recovery =	0.00%#	
51) 2-Fluorobiphenyl	0.000	172	0d	0.00 ppm	
Spiked Amount 50.000	Range 21 - 58		Recovery =	0.00%#	
73) 2,4,6-Tribromophenol	0.000	330	0	0.00 ppm	
Spiked Amount 50.000	Range 12 - 68		Recovery =	0.00%#	
85) Terphenyl-d14	0.000	244	0	0.00 ppm	
Spiked Amount 50.000	Range 16 - 65		Recovery =	0.00%#	
111) 1-chlorooctadecane	10.035	57	492838	26.66 ppm	0.00
112) O-terphenyl	9.168	230	602224	24.73 ppm	0.00
Target Compounds					Qvalue
102) Benzaldehyde	4.542	105	342212	27.55 ppm	93
104) Hydroquinone	6.286	110	418874	28.49 ppm	95
106) Atrazine	8.473	215	119740	25.71 ppm #	84
107) 1,2,4,5-Tetrachloroben...	6.687	216	389973	24.43 ppm	97
109) Benzidine	10.329	184	530400	37.66 ppm	99

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P2607\
Data File : 2p59761.D
Acq On : 2 Jun 2016 5:19 pm
Operator : robertl1
Sample : IC2607-25
Misc : op94078,e2p2607
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 03 08:50:21 2016
Quant Method : C:\MSDCHEM\1\METHODS\M2P2606.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu Jun 02 17:14:07 2016
Response via : Initial Calibration



M2P2606.M Fri Jun 03 08:50:45 2016 RPT1 Page: 2

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P2607\
Data File : 2p59762.D
Acq On : 2 Jun 2016 5:41 pm
Operator : robertl1
Sample : IC2607-10
Misc : op94078,e2p2607
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 03 08:51:08 2016
Quant Method : C:\MSDCHEM\1\METHODS\M2P2606.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu Jun 02 17:14:07 2016
Response via : Initial Calibration

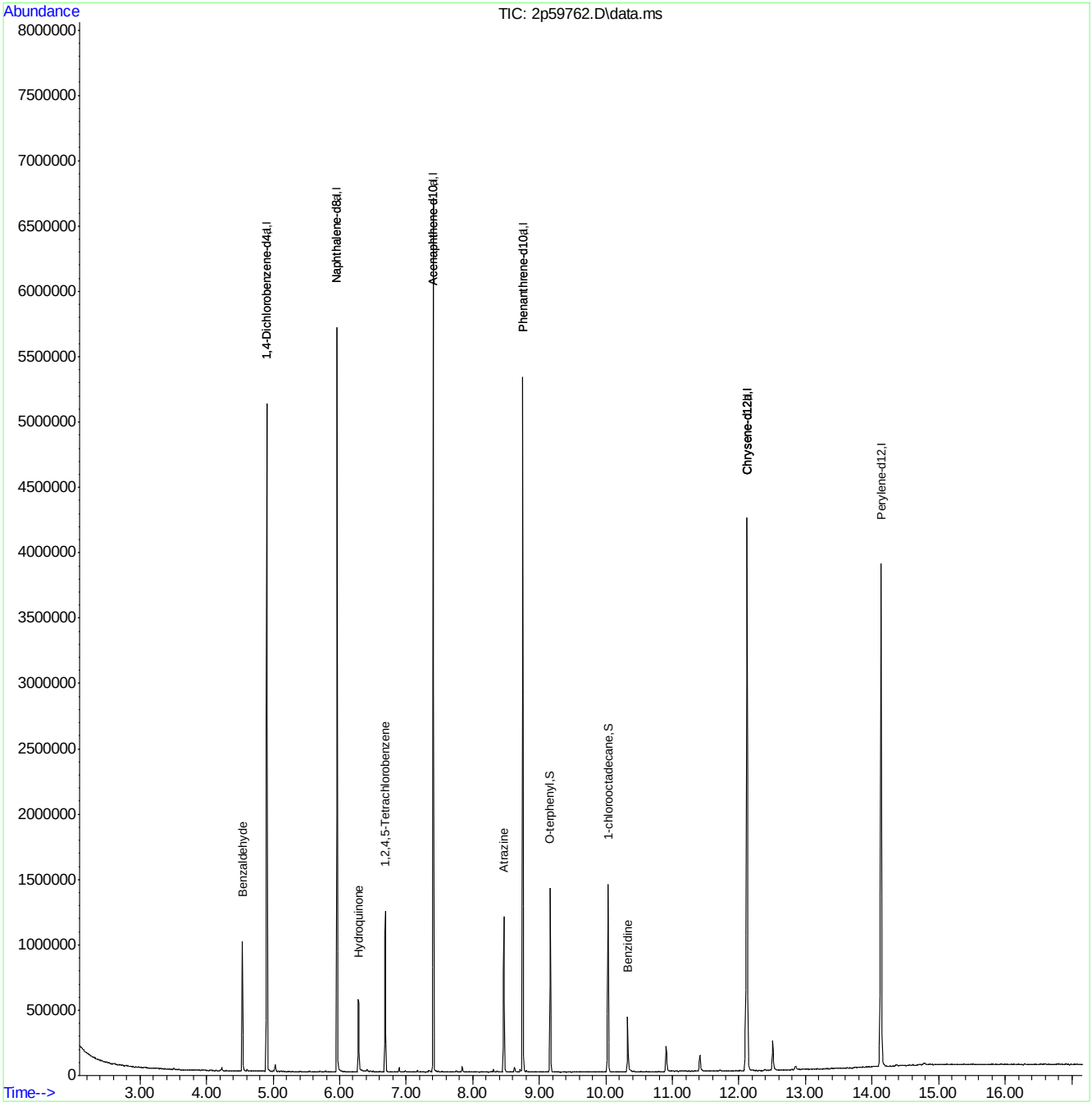
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.906	152	611435	40.00	ppm	0.00
24) Naphthalene-d8	5.959	136	2148601	40.00	ppm	0.00
47) Acenaphthene-d10	7.409	164	1193040	40.00	ppm	0.00
69) Phenanthrene-d10	8.751	188	1949948	40.00	ppm	0.00
83) Chrysene-d12	12.126	240	1932817	40.00	ppm	0.00
91) Perylene-d12	14.137	264	1741413	40.00	ppm	0.00
101) 1,4-Dichlorobenzene-d4a	4.906	152	611435	40.00	ppm	0.00
103) Naphthalene-d8a	5.959	136	2148601	40.00	ppm	0.00
105) Acenaphthene-d10a	7.409	164	1193040	40.00	ppm	0.00
108) Chrysene-d12a	12.126	240	1932817	40.00	ppm	0.00
110) Phenanthrene-d10a	8.751	188	1949948	40.00	ppm	# 0.00
113) Chrysene-d12b	12.126	240	1932817	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	0.000	112	0	0.00	ppm	
Spiked Amount 50.000	Range 11 - 58		Recovery = 0.00%#			
8) Phenol-d5	0.000	99	0	0.00	ppm	
Spiked Amount 50.000	Range 10 - 59		Recovery = 0.00%#			
25) Nitrobenzene-d5	0.000	82	0	0.00	ppm	
Spiked Amount 50.000	Range 19 - 61		Recovery = 0.00%#			
51) 2-Fluorobiphenyl	0.000	172	0d	0.00	ppm	
Spiked Amount 50.000	Range 21 - 58		Recovery = 0.00%#			
73) 2,4,6-Tribromophenol	0.000	330	0	0.00	ppm	
Spiked Amount 50.000	Range 12 - 68		Recovery = 0.00%#			
85) Terphenyl-d14	0.000	244	0	0.00	ppm	
Spiked Amount 50.000	Range 16 - 65		Recovery = 0.00%#			
111) 1-chlorooctadecane	10.035	57	214671	10.53	ppm	0.00
112) O-terphenyl	9.163	230	270541	10.08	ppm	0.00
Target Compounds						Qvalue
102) Benzaldehyde	4.542	105	151922	11.08	ppm	93
104) Hydroquinone	6.286	110	169596	10.52	ppm	98
106) Atrazine	8.468	215	52328	10.07	ppm	94
107) 1,2,4,5-Tetrachloroben...	6.687	216	175310	9.85	ppm	99
109) Benzidine	10.329	184	181472	11.54	ppm	98

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P2607\
Data File : 2p59762.D
Acq On : 2 Jun 2016 5:41 pm
Operator : robertl1
Sample : IC2607-10
Misc : op94078,e2p2607
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 03 08:51:08 2016
Quant Method : C:\MSDCHEM\1\METHODS\M2P2606.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu Jun 02 17:14:07 2016
Response via : Initial Calibration



M2P2606.M Fri Jun 03 08:51:28 2016 RPT1 Page: 2

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P2607\
Data File : 2p59763.D
Acq On : 2 Jun 2016 6:02 pm
Operator : robertl1
Sample : ICV2606-50
Misc : op94078,e2p2607
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jun 03 09:46:42 2016
Quant Method : C:\MSDCHEM\1\METHODS\M2P2606.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri Jun 03 08:53:01 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.906	152	571138	40.00	ppm	0.00
24) Naphthalene-d8	5.965	136	1810186	40.00	ppm	0.00
47) Acenaphthene-d10	7.409	164	993506	40.00	ppm	0.00
69) Phenanthrene-d10	8.757	188	1700406	40.00	ppm	0.00
83) Chrysene-d12	12.132	240	1433406	40.00	ppm	0.00
91) Perylene-d12	14.137	264	1345000	40.00	ppm	0.00
101) 1,4-Dichlorobenzene-d4a	4.906	152	571138	40.00	ppm	0.00
103) Naphthalene-d8a	5.965	136	1810186	40.00	ppm	0.00
105) Acenaphthene-d10a	7.409	164	993506	40.00	ppm	0.00
108) Chrysene-d12a	12.132	240	1433406	40.00	ppm	0.00
110) Phenanthrene-d10a	8.757	188	1700406	40.00	ppm	0.00
113) Chrysene-d12b	12.132	240	1433406	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	0.000	112	0	0.00	ppm	
Spiked Amount 50.000	Range 11 - 58		Recovery = 0.00%#			
8) Phenol-d5	0.000	99	0	0.00	ppm	
Spiked Amount 50.000	Range 10 - 59		Recovery = 0.00%#			
25) Nitrobenzene-d5	0.000	82	0d	0.00	ppm	
Spiked Amount 50.000	Range 19 - 61		Recovery = 0.00%#			
51) 2-Fluorobiphenyl	0.000	172	0d	0.00	ppm	
Spiked Amount 50.000	Range 21 - 58		Recovery = 0.00%#			
73) 2,4,6-Tribromophenol	0.000	330	0	0.00	ppm	
Spiked Amount 50.000	Range 12 - 68		Recovery = 0.00%#			
85) Terphenyl-d14	0.000	244	0	0.00	ppm	
Spiked Amount 50.000	Range 16 - 65		Recovery = 0.00%#			
111) 1-chlorooctadecane	0.000	57	0	0.00	ppm	
112) O-terphenyl	0.000	230	0	0.00	ppm	
Target Compounds						Qvalue
4) N-Nitrosodimethylamine	2.558	74	633968	49.65	ppm #	36
11) bis(2-Chloroethyl)ether	4.692	93	910712	52.10	ppm	95
14) 1,3-Dichlorobenzene	4.857	146	1123902	46.50	ppm	100
15) 1,4-Dichlorobenzene	4.922	146	1012294	43.59	ppm	99
17) 1,2-Dichlorobenzene	5.045	146	961434	44.56	ppm	97
20) 2,2'-oxybis(1-Chloropr...	5.136	121	251850	42.80	ppm #	57
22) n-Nitroso-di-n-propyla...	5.243	70	524698	45.48	ppm	76
23) Hexachloroethane	5.328	201	332094	42.75	ppm #	77
26) Nitrobenzene	5.382	77	740137	45.61	ppm	95
28) Isophorone	5.580	82	1404272	46.68	ppm	87
32) bis(2-Chloroethoxy)met...	5.767	93	845630	48.63	ppm	97
36) 1,2,4-Trichlorobenzene	5.916	180	738177	46.23	ppm	97
38) Naphthalene	5.981	128	2122059	44.58	ppm	99
42) Hexachlorobutadiene	6.082	225	395290	45.78	ppm	96
48) Hexachlorocyclopentadiene	6.681	237	379809	40.21	ppm	92
52) 2-Chloronaphthalene	6.949	162	1411142	47.69	ppm	99
55) Dimethylphthalate	7.189	163	1507239	45.15	ppm	99
56) Acenaphthylene	7.291	152	2059839	41.99	ppm	99
57) 2,6-Dinitrotoluene	7.238	165	330304	45.05	ppm	84

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P2607\
Data File : 2p59763.D
Acq On : 2 Jun 2016 6:02 pm
Operator : robertl1
Sample : ICV2606-50
Misc : op94078,e2p2607
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jun 03 09:46:42 2016
Quant Method : C:\MSDCHEM\1\METHODS\M2P2606.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri Jun 03 08:53:01 2016
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
59)	Acenaphthene	7.435	153	1247322	43.04	ppm	97
63)	2,4-Dinitrotoluene	7.564	165	410213	43.60	ppm	90
65)	Diethylphthalate	7.772	149	1430130	44.36	ppm	94
66)	Fluorene	7.869	166	1280318	39.79	ppm	97
67)	4-Chlorophenyl-phenyle...	7.869	204	592588	39.63	ppm	97
71)	n-Nitrosodiphenylamine	7.976	169	989201	42.98	ppm	97
72)	1,2-Diphenylhydrazine	8.008	77	1213395	41.05	ppm	91
74)	4-Bromophenyl-phenylether	8.313	248	430984	44.53	ppm	97
75)	Hexachlorobenzene	8.366	284	431262	40.78	ppm	88
77)	Phenanthrene	8.778	178	1999443	42.57	ppm	98
78)	Anthracene	8.831	178	1882558	40.14	ppm	98
80)	Di-n-butylphthalate	9.409	149	2557981	45.02	ppm	99
81)	Fluoranthene	10.147	202	2448429	43.56	ppm	92
84)	Pyrene	10.436	202	2368283	48.62	ppm	97
86)	Butylbenzylphthalate	11.383	149	1140846	52.38	ppm	91
87)	Benzo[a]anthracene	12.110	228	1990156	45.20	ppm	99
88)	3,3'-Dichlorobenzidine	12.116	252	1028804	65.01	ppm	94
89)	Chrysene	12.169	228	1834705	45.52	ppm	99
90)	bis(2-Ethylhexyl)phtha...	12.265	149	1340887	51.16	ppm	99
92)	Di-n-octylphthalate	13.217	149	2571085	51.42	ppm	98
93)	Benzo[b]fluoranthene	13.635	252	2000422	44.52	ppm	91
94)	Benzo[k]fluoranthene	13.677	252	1897807	48.69	ppm	89
95)	Benzo[a]pyrene	14.062	252	1807210	45.65	ppm	93
96)	Indeno[1,2,3-cd]pyrene	15.678	276	1805052	50.09	ppm	83
98)	Dibenz[a,h]anthracene	15.726	278	1711245	47.91	ppm	92
100)	Benzo[g,h,i]perylene	16.122	276	1797405	47.15	ppm	87

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

7.6.17

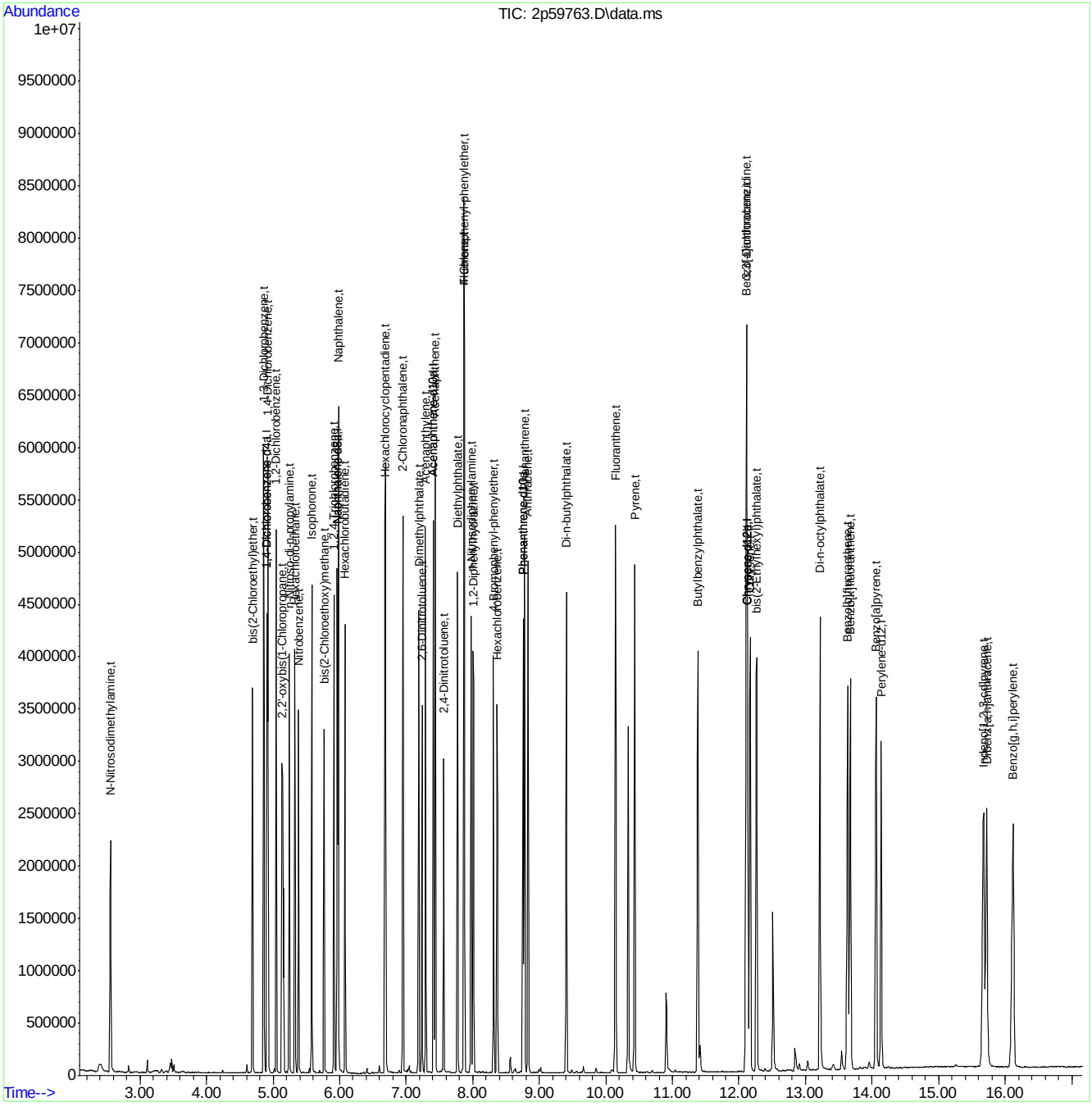
7

SGS ACCUTEST JC21347

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P2607\
Data File : 2p59763.D
Acq On : 2 Jun 2016 6:02 pm
Operator : robertl1
Sample : ICV2606-50
Misc : op94078,e2p2607
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jun 03 09:46:42 2016
Quant Method : C:\MSDCHEM\1\METHODS\M2P2606.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri Jun 03 08:53:01 2016
Response via : Initial Calibration



SGS ACCUTEST JC21347

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P2607\
Data File : 2p59763a.D
Acq On : 2 Jun 2016 6:02 pm
Operator : robertl1
Sample : ICV2607-50
Misc : op94078,e2p2607
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jun 03 09:47:17 2016
Quant Method : C:\MSDCHEM\1\METHODS\M2P2606.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri Jun 03 08:53:01 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.906	152	571138	40.00	ppm	0.00
24) Naphthalene-d8	5.965	136	1810186	40.00	ppm	0.00
47) Acenaphthene-d10	7.409	164	993506	40.00	ppm	0.00
69) Phenanthrene-d10	8.757	188	1700406	40.00	ppm	0.00
83) Chrysene-d12	12.132	240	1433406	40.00	ppm	0.00
91) Perylene-d12	14.137	264	1345000	40.00	ppm	0.00
101) 1,4-Dichlorobenzene-d4a	4.906	152	571138	40.00	ppm	0.00
103) Naphthalene-d8a	5.965	136	1810186	40.00	ppm	0.00
105) Acenaphthene-d10a	7.409	164	993506	40.00	ppm	0.00
108) Chrysene-d12a	12.132	240	1433406	40.00	ppm	0.00
110) Phenanthrene-d10a	8.757	188	1700406	40.00	ppm	0.00
113) Chrysene-d12b	12.132	240	1433406	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	0.000	112	0	0.00	ppm	
Spiked Amount 50.000	Range 11 - 58		Recovery = 0.00%#			
8) Phenol-d5	0.000	99	0	0.00	ppm	
Spiked Amount 50.000	Range 10 - 59		Recovery = 0.00%#			
25) Nitrobenzene-d5	0.000	82	0d	0.00	ppm	
Spiked Amount 50.000	Range 19 - 61		Recovery = 0.00%#			
51) 2-Fluorobiphenyl	0.000	172	0d	0.00	ppm	
Spiked Amount 50.000	Range 21 - 58		Recovery = 0.00%#			
73) 2,4,6-Tribromophenol	0.000	330	0	0.00	ppm	
Spiked Amount 50.000	Range 12 - 68		Recovery = 0.00%#			
85) Terphenyl-d14	0.000	244	0	0.00	ppm	
Spiked Amount 50.000	Range 16 - 65		Recovery = 0.00%#			
111) 1-chlorooctadecane	0.000	57	0	0.00	ppm	
112) O-terphenyl	0.000	230	0	0.00	ppm	
Target Compounds						Qvalue
107) 1,2,4,5-Tetrachloroben...	6.687	216	747862	50.68	ppm	97
109) Benzidine	10.340	184	1523219	120.62	ppm	98

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

7.6.18

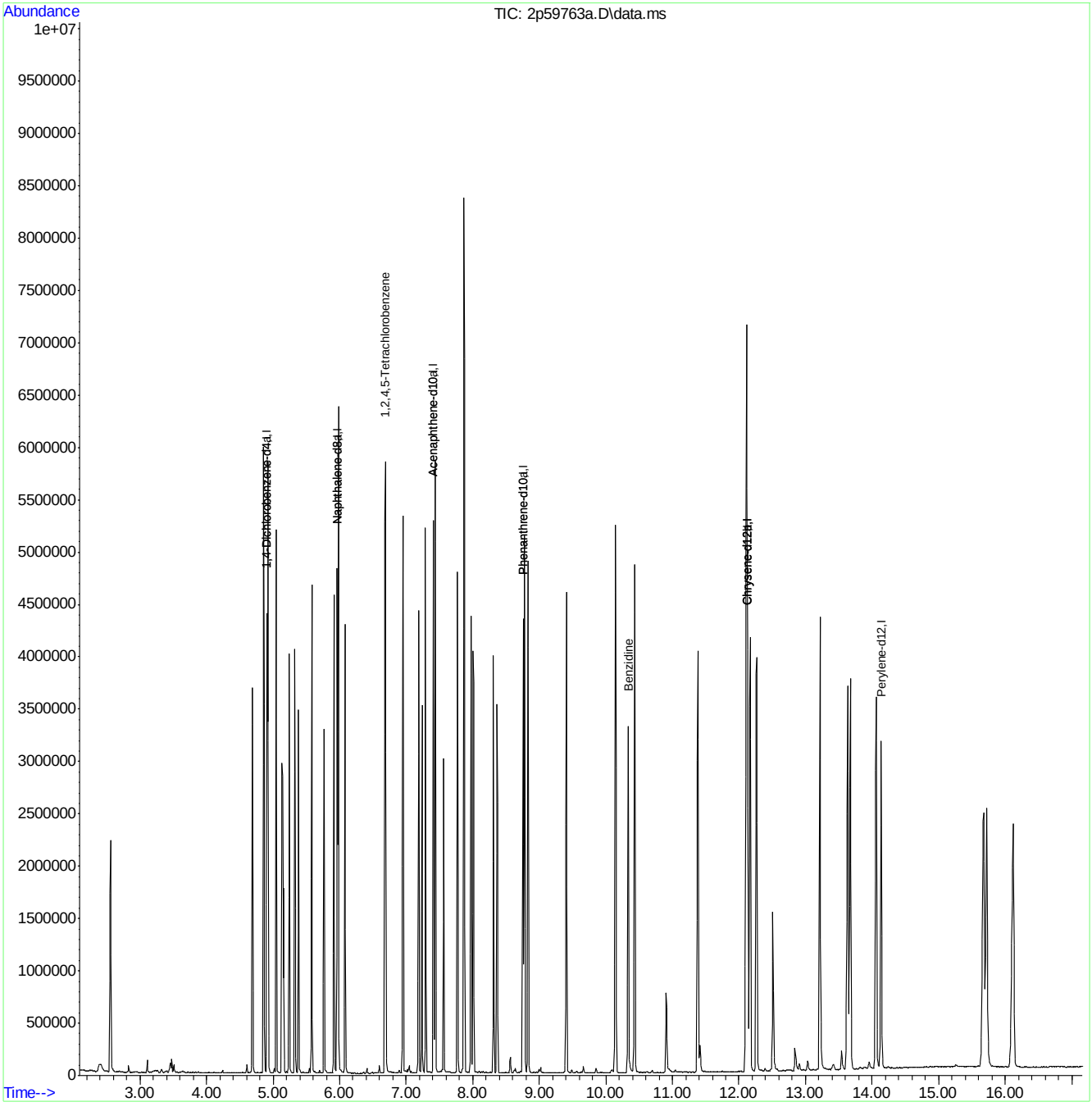
7

SGS ACCUTEST JC21347

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P2607\
Data File : 2p59763a.D
Acq On : 2 Jun 2016 6:02 pm
Operator : robertl1
Sample : ICV2607-50
Misc : op94078,e2p2607
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jun 03 09:47:17 2016
Quant Method : C:\MSDCHEM\1\METHODS\M2P2606.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri Jun 03 08:53:01 2016
Response via : Initial Calibration



SGS ACCUTEST JC21347

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P2607\
Data File : 2p59764.D
Acq On : 2 Jun 2016 6:24 pm
Operator : robertl1
Sample : ICV2606-50
Misc : op94078,e2p2607
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 03 15:11:16 2016
Quant Method : C:\MSDCHEM\1\METHODS\M2P2606.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri Jun 03 08:53:00 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.906	152	478787	40.00	ppm	0.00
24) Naphthalene-d8	5.959	136	1730253	40.00	ppm	0.00
47) Acenaphthene-d10	7.409	164	898769	40.00	ppm	0.00
69) Phenanthrene-d10	8.751	188	1440110	40.00	ppm	0.00
83) Chrysene-d12	12.121	240	1573682	40.00	ppm	-0.01
91) Perylene-d12	14.137	264	1280861	40.00	ppm	0.00
101) 1,4-Dichlorobenzene-d4a	4.906	152	478787	40.00	ppm	0.00
103) Naphthalene-d8a	5.959	136	1730253	40.00	ppm	0.00
105) Acenaphthene-d10a	7.409	164	898769	40.00	ppm	0.00
108) Chrysene-d12a	12.121	240	1573682	40.00	ppm	0.00
110) Phenanthrene-d10a	8.751	188	1440110	40.00	ppm	0.00
113) Chrysene-d12b	12.121	240	1573682	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	0.000	112	0	0.00	ppm	
Spiked Amount 50.000	Range 11 - 58		Recovery = 0.00%#			
8) Phenol-d5	0.000	99	0d	0.00	ppm	
Spiked Amount 50.000	Range 10 - 59		Recovery = 0.00%#			
25) Nitrobenzene-d5	0.000	82	0	0.00	ppm	
Spiked Amount 50.000	Range 19 - 61		Recovery = 0.00%#			
51) 2-Fluorobiphenyl	0.000	172	0d	0.00	ppm	
Spiked Amount 50.000	Range 21 - 58		Recovery = 0.00%#			
73) 2,4,6-Tribromophenol	0.000	330	0	0.00	ppm	
Spiked Amount 50.000	Range 12 - 68		Recovery = 0.00%#			
85) Terphenyl-d14	0.000	244	0	0.00	ppm	
Spiked Amount 50.000	Range 16 - 65		Recovery = 0.00%#			
111) 1-chlorooctadecane	0.000	57	0	0.00	ppm	
112) O-terphenyl	0.000	230	0	0.00	ppm	
Target Compounds						Qvalue
2) 1,4-Dioxane	2.258	88	335669	41.40	ppm	99
6) Indene	5.120	116	1189144	45.93	ppm	98
7) Cumene	4.237	105	1706361	41.86	ppm	96
13) Decane	4.777	57	1035738	42.58	ppm	88
18) Acetophenone	5.243	105	836047	43.26	ppm	85
27) Quinoline	6.253	129	1278042	38.96	ppm	96
40) 2,3-Dichloroaniline	6.783	161	570909	33.71	ppm	93
41) Caprolactam	6.302	113	193399	36.76	ppm	86
45) 1-Methylnaphthalene	6.633	141	1040764	37.90	ppm	95
46) Dimethylnaphthalene	7.066	156	1037076	37.33	ppm	98
53) Biphenyl	6.933	154	1399128	40.29	ppm	96
82) Octadecane	8.650	43	920721	43.87	ppm	77
99) 7,12-Dimethylbenz(a)an...	13.629	256	659346	35.09	ppm	94

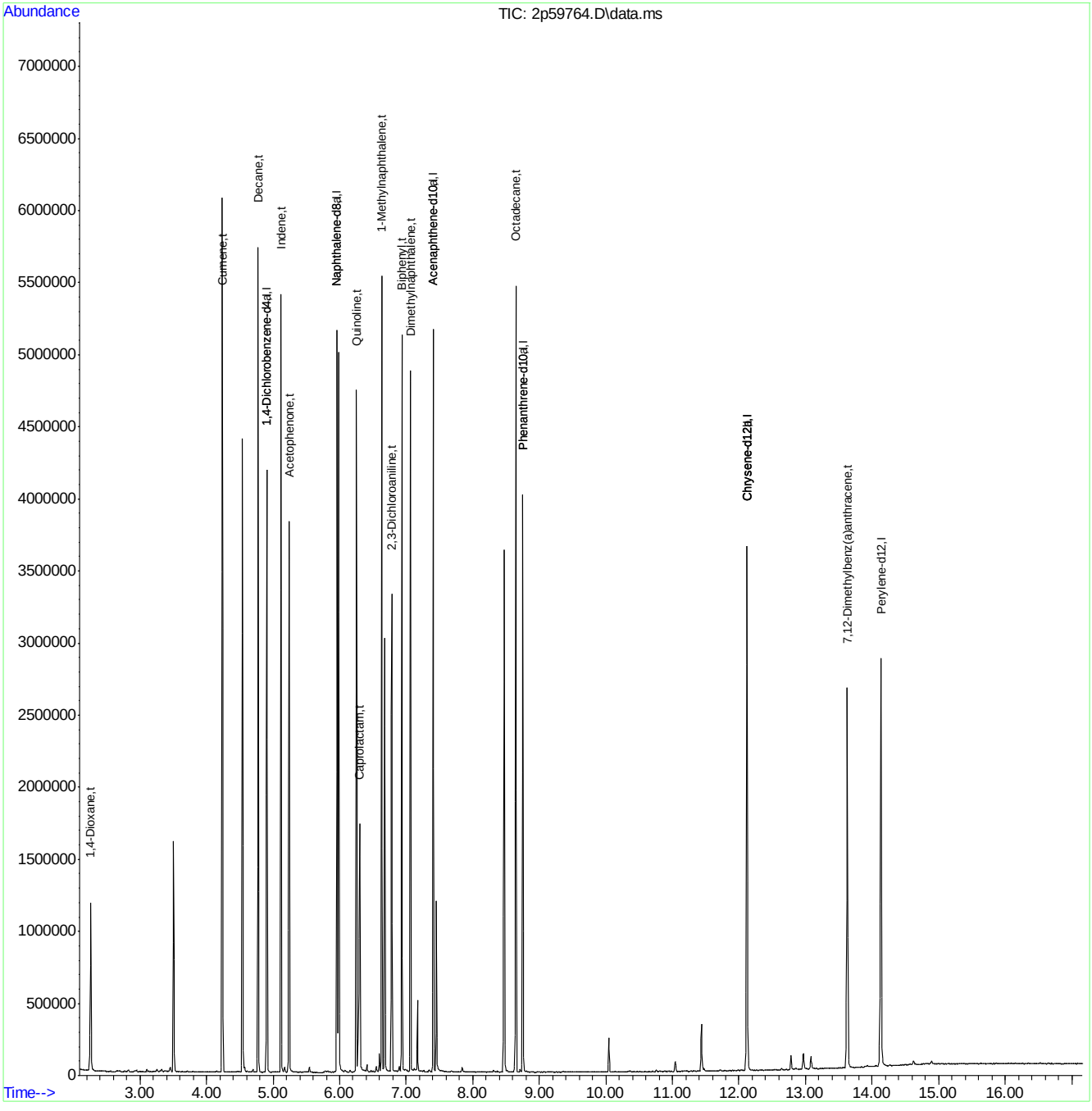
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC21347

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P2607\
Data File : 2p59764.D
Acq On : 2 Jun 2016 6:24 pm
Operator : robertl1
Sample : ICV2606-50
Misc : op94078,e2p2607
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 03 15:11:16 2016
Quant Method : C:\MSDCHEM\1\METHODS\M2P2606.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri Jun 03 08:53:00 2016
Response via : Initial Calibration



SGS ACCUTEST JC21347

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P2607\
Data File : 2p59764a.D
Acq On : 2 Jun 2016 6:24 pm
Operator : robertl1
Sample : ICV2607-50
Misc : op94078,e2p2607
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 03 09:48:03 2016
Quant Method : C:\MSDCHEM\1\METHODS\M2P2606.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri Jun 03 08:53:00 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.906	152	478787	40.00	ppm	0.00
24) Naphthalene-d8	5.959	136	1730253	40.00	ppm	0.00
47) Acenaphthene-d10	7.409	164	898769	40.00	ppm	0.00
69) Phenanthrene-d10	8.751	188	1440110	40.00	ppm	0.00
83) Chrysene-d12	12.121	240	1573682	40.00	ppm	-0.01
91) Perylene-d12	14.137	264	1280861	40.00	ppm	0.00
101) 1,4-Dichlorobenzene-d4a	4.906	152	478787	40.00	ppm	0.00
103) Naphthalene-d8a	5.959	136	1730253	40.00	ppm	0.00
105) Acenaphthene-d10a	7.409	164	898769	40.00	ppm	0.00
108) Chrysene-d12a	12.121	240	1573682	40.00	ppm	0.00
110) Phenanthrene-d10a	8.751	188	1440110	40.00	ppm	0.00
113) Chrysene-d12b	12.121	240	1573682	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	0.000	112	0	0.00	ppm	
Spiked Amount 50.000	Range 11 - 58		Recovery = 0.00%#			
8) Phenol-d5	0.000	99	0d	0.00	ppm	
Spiked Amount 50.000	Range 10 - 59		Recovery = 0.00%#			
25) Nitrobenzene-d5	0.000	82	0	0.00	ppm	
Spiked Amount 50.000	Range 19 - 61		Recovery = 0.00%#			
51) 2-Fluorobiphenyl	0.000	172	0d	0.00	ppm	
Spiked Amount 50.000	Range 21 - 58		Recovery = 0.00%#			
73) 2,4,6-Tribromophenol	0.000	330	0	0.00	ppm	
Spiked Amount 50.000	Range 12 - 68		Recovery = 0.00%#			
85) Terphenyl-d14	0.000	244	0	0.00	ppm	
Spiked Amount 50.000	Range 16 - 65		Recovery = 0.00%#			
111) 1-chlorooctadecane	0.000	57	0	0.00	ppm	
112) O-terphenyl	0.000	230	0	0.00	ppm	
Target Compounds						Qvalue
102) Benzaldehyde	4.542	105	584250	53.03	ppm	92
106) Atrazine	8.473	215	187334	47.65	ppm	88

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

7.6.20

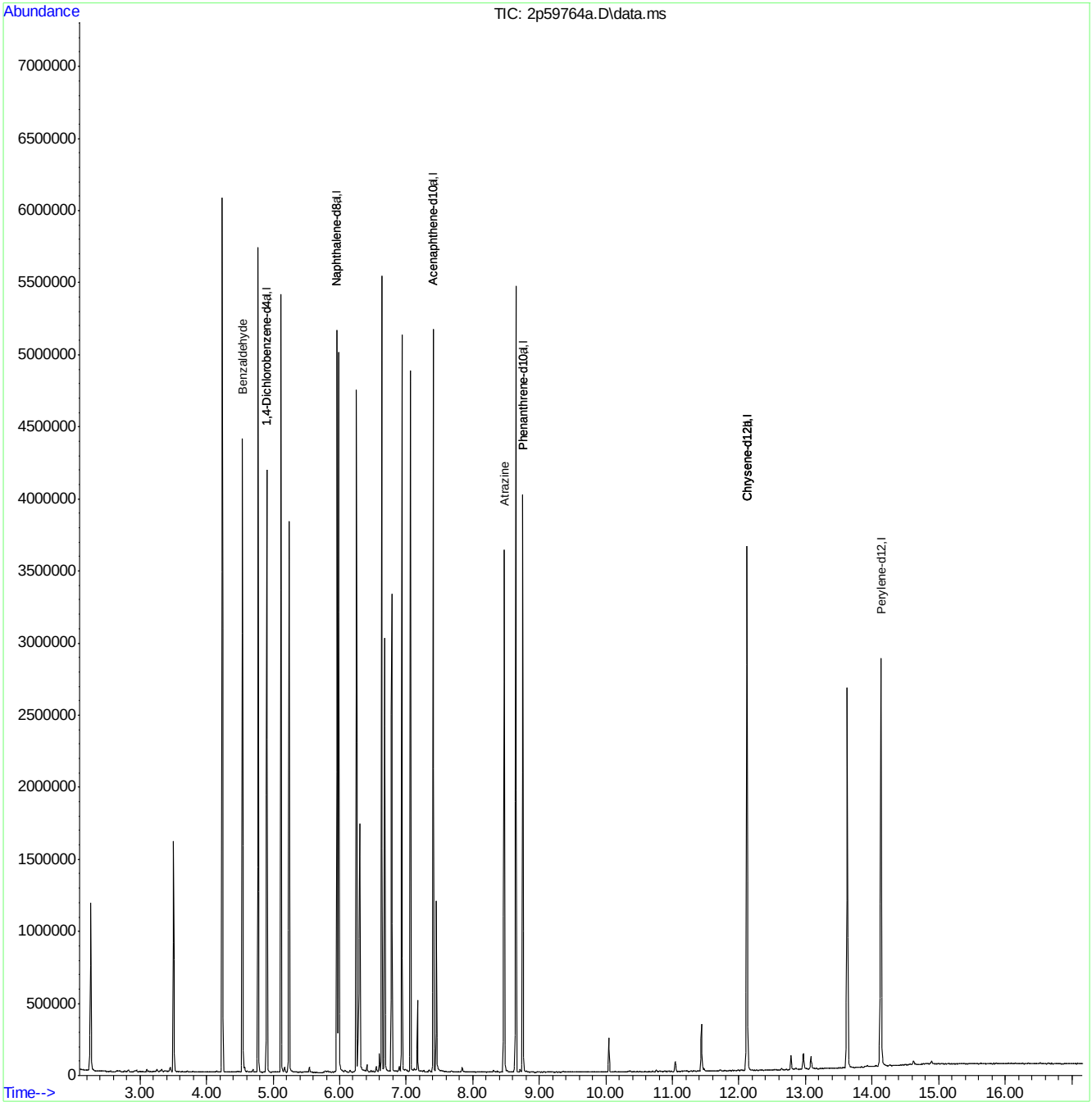
7

SGS ACCUTEST JC21347

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P2607\
Data File : 2p59764a.D
Acq On : 2 Jun 2016 6:24 pm
Operator : robertl1
Sample : ICV2607-50
Misc : op94078,e2p2607
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 03 09:48:03 2016
Quant Method : C:\MSDCHEM\1\METHODS\M2P2606.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri Jun 03 08:53:00 2016
Response via : Initial Calibration



M2P2606.M Fri Jun 03 15:16:14 2016 RPT1 Page: 2

SGS ACCUTEST JC21347

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P2607\
Data File : 2p59765.D
Acq On : 2 Jun 2016 6:46 pm
Operator : robertl1
Sample : ICV2607-50
Misc : op94078,e2p2607
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jun 03 09:06:01 2016
Quant Method : C:\MSDCHEM\1\METHODS\M2P2606.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri Jun 03 08:53:00 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.906	152	659303	40.00	ppm	0.00
24) Naphthalene-d8	5.965	136	2076700	40.00	ppm	0.00
47) Acenaphthene-d10	7.409	164	1245231	40.00	ppm	0.00
69) Phenanthrene-d10	8.757	188	2001880	40.00	ppm	0.00
83) Chrysene-d12	12.126	240	2078131	40.00	ppm	0.00
91) Perylene-d12	14.137	264	1848738	40.00	ppm	0.00
101) 1,4-Dichlorobenzene-d4a	4.906	152	659303	40.00	ppm	0.00
103) Naphthalene-d8a	5.965	136	2076700	40.00	ppm	0.00
105) Acenaphthene-d10a	7.409	164	1245231	40.00	ppm	0.00
108) Chrysene-d12a	12.126	240	2078131	40.00	ppm	0.00
110) Phenanthrene-d10a	8.757	188	2001880	40.00	ppm	0.00
113) Chrysene-d12b	12.126	240	2078131	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	0.000	112	0	0.00	ppm	
Spiked Amount 50.000	Range 11 - 58		Recovery	=	0.00%#	
8) Phenol-d5	0.000	99	0d	0.00	ppm	
Spiked Amount 50.000	Range 10 - 59		Recovery	=	0.00%#	
25) Nitrobenzene-d5	0.000	82	0d	0.00	ppm	
Spiked Amount 50.000	Range 19 - 61		Recovery	=	0.00%#	
51) 2-Fluorobiphenyl	0.000	172	0d	0.00	ppm	
Spiked Amount 50.000	Range 21 - 58		Recovery	=	0.00%#	
73) 2,4,6-Tribromophenol	0.000	330	0	0.00	ppm	
Spiked Amount 50.000	Range 12 - 68		Recovery	=	0.00%#	
85) Terphenyl-d14	0.000	244	0	0.00	ppm	
Spiked Amount 50.000	Range 16 - 65		Recovery	=	0.00%#	
111) 1-chlorooctadecane	0.000	57	0	0.00	ppm	
112) O-terphenyl	0.000	230	0	0.00	ppm	
Target Compounds						Qvalue
9) Phenol	4.611	94	1373230	44.16	ppm	90
12) 2-Chlorophenol	4.729	128	1124136	45.67	ppm	91
19) 2-Methylphenol	5.114	108	904378	47.17	ppm	93
21) 3&4-Methylphenol	5.243	108	927212	46.36	ppm	97
29) 2-Nitrophenol	5.649	139	560670	52.17	ppm	89
30) 2,4-Dimethylphenol	5.681	107	880515	46.91	ppm	96
31) Benzoic acid	5.794	105	707943	52.32	ppm	95
33) 2,4-Dichlorophenol	5.842	162	769458	44.52	ppm	93
34) 2,6-Dichlorophenol	6.029	162	738415	46.78	ppm	99
43) 4-Chloro-3-methylphenol	6.419	107	743428	44.86	ppm	88
49) 2,4,6-Trichlorophenol	6.783	196	577253	46.17	ppm	96
50) 2,4,5-Trichlorophenol	6.804	196	551970	40.99	ppm	98
60) 2,4-Dinitrophenol	7.457	184	237034	55.60	ppm #	100
61) 4-Nitrophenol	7.505	109	237373	45.11	ppm	94
64) 2,3,4,6-Tetrachlorophenol	7.676	232	469859	41.43	ppm	93
70) 4,6-Dinitro-2-methylph...	7.906	198	341082	56.79	ppm	90
76) Pentachlorophenol	8.553	266	404776	48.77	ppm	99

SGS ACCUTEST JC21347

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P2607\
Data File : 2p59765.D
Acq On : 2 Jun 2016 6:46 pm
Operator : robertl1
Sample : ICV2607-50
Misc : op94078,e2p2607
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jun 03 09:06:01 2016
Quant Method : C:\MSDCHEM\1\METHODS\M2P2606.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri Jun 03 08:53:00 2016
Response via : Initial Calibration

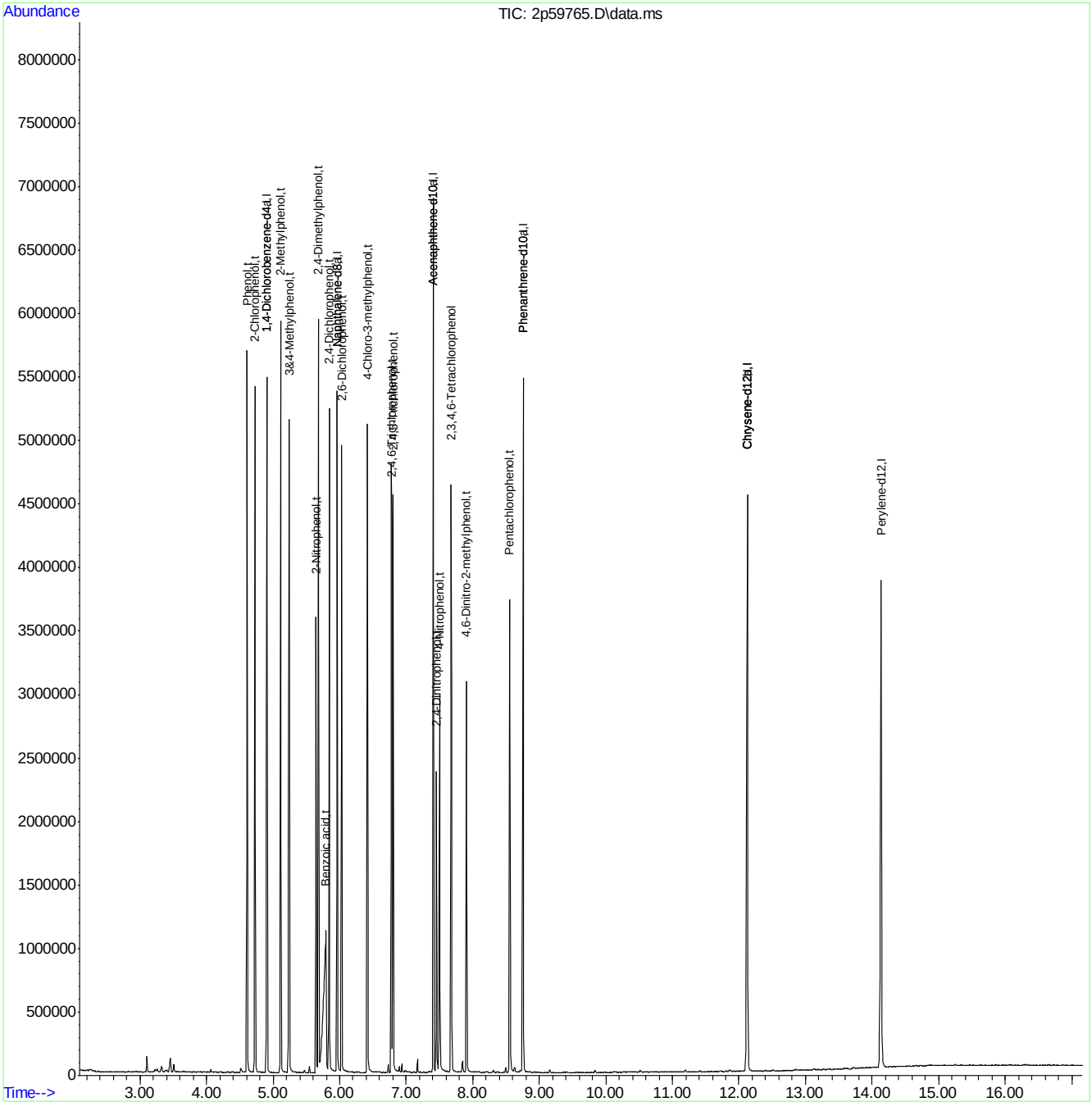
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P2607\
Data File : 2p59765.D
Acq On : 2 Jun 2016 6:46 pm
Operator : robertl1
Sample : ICV2607-50
Misc : op94078,e2p2607
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jun 03 09:06:01 2016
Quant Method : C:\MSDCHEM\1\METHODS\M2P2606.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri Jun 03 08:53:00 2016
Response via : Initial Calibration



SGS ACCUTEST JC21347

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P2607\
Data File : 2p59766.D
Acq On : 2 Jun 2016 7:08 pm
Operator : robertl1
Sample : ICV2607-50
Misc : op94078,e2p2607
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jun 03 09:08:08 2016
Quant Method : C:\MSDCHEM\1\METHODS\M2P2606.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri Jun 03 08:53:00 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.911	152	460173	40.00	ppm	0.00
24) Naphthalene-d8	5.964	136	1682328	40.00	ppm	0.00
47) Acenaphthene-d10	7.409	164	871769	40.00	ppm	0.00
69) Phenanthrene-d10	8.751	188	1506056	40.00	ppm	0.00
83) Chrysene-d12	12.121	240	1468636	40.00	ppm	-0.01
91) Perylene-d12	14.132	264	1012923	40.00	ppm	-0.01
101) 1,4-Dichlorobenzene-d4a	4.911	152	460173	40.00	ppm	0.00
103) Naphthalene-d8a	5.964	136	1682328	40.00	ppm	0.00
105) Acenaphthene-d10a	7.409	164	871769	40.00	ppm	0.00
108) Chrysene-d12a	12.121	240	1468636	40.00	ppm	0.00
110) Phenanthrene-d10a	8.751	188	1506056	40.00	ppm	# 0.00
113) Chrysene-d12b	12.121	240	1468636	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	0.000	112	0	0.00	ppm	
Spiked Amount 50.000	Range 11 - 58		Recovery = 0.00%#			
8) Phenol-d5	0.000	99	0	0.00	ppm	
Spiked Amount 50.000	Range 10 - 59		Recovery = 0.00%#			
25) Nitrobenzene-d5	0.000	82	0	0.00	ppm	
Spiked Amount 50.000	Range 19 - 61		Recovery = 0.00%#			
51) 2-Fluorobiphenyl	0.000	172	0d	0.00	ppm	
Spiked Amount 50.000	Range 21 - 58		Recovery = 0.00%#			
73) 2,4,6-Tribromophenol	0.000	330	0	0.00	ppm	
Spiked Amount 50.000	Range 12 - 68		Recovery = 0.00%#			
85) Terphenyl-d14	0.000	244	0	0.00	ppm	
Spiked Amount 50.000	Range 16 - 65		Recovery = 0.00%#			
111) 1-chlorooctadecane	0.000	57	0	0.00	ppm	
112) O-terphenyl	0.000	230	0	0.00	ppm	
Target Compounds						Qvalue
3) Pyridine	2.686	79	832778	46.08	ppm	78
10) Aniline	4.638	93	1149311	46.18	ppm	91
16) Benzyl alcohol	5.028	108	482827	49.88	ppm	94
39) 4-Chloroaniline	6.023	127	861579	46.09	ppm	98
44) 2-Methylnaphthalene	6.553	141	1069223	41.07	ppm	94
54) 2-Nitroaniline	7.034	65	382053	46.55	ppm	88
58) 3-Nitroaniline	7.371	138	381100	46.65	ppm	96
62) Dibenzofuran	7.580	168	1619916	46.59	ppm	96
68) 4-Nitroaniline	7.885	138	355356	44.07	ppm	87
79) Carbazole	9.002	167	1799525	43.85	ppm	98

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

7.6.22

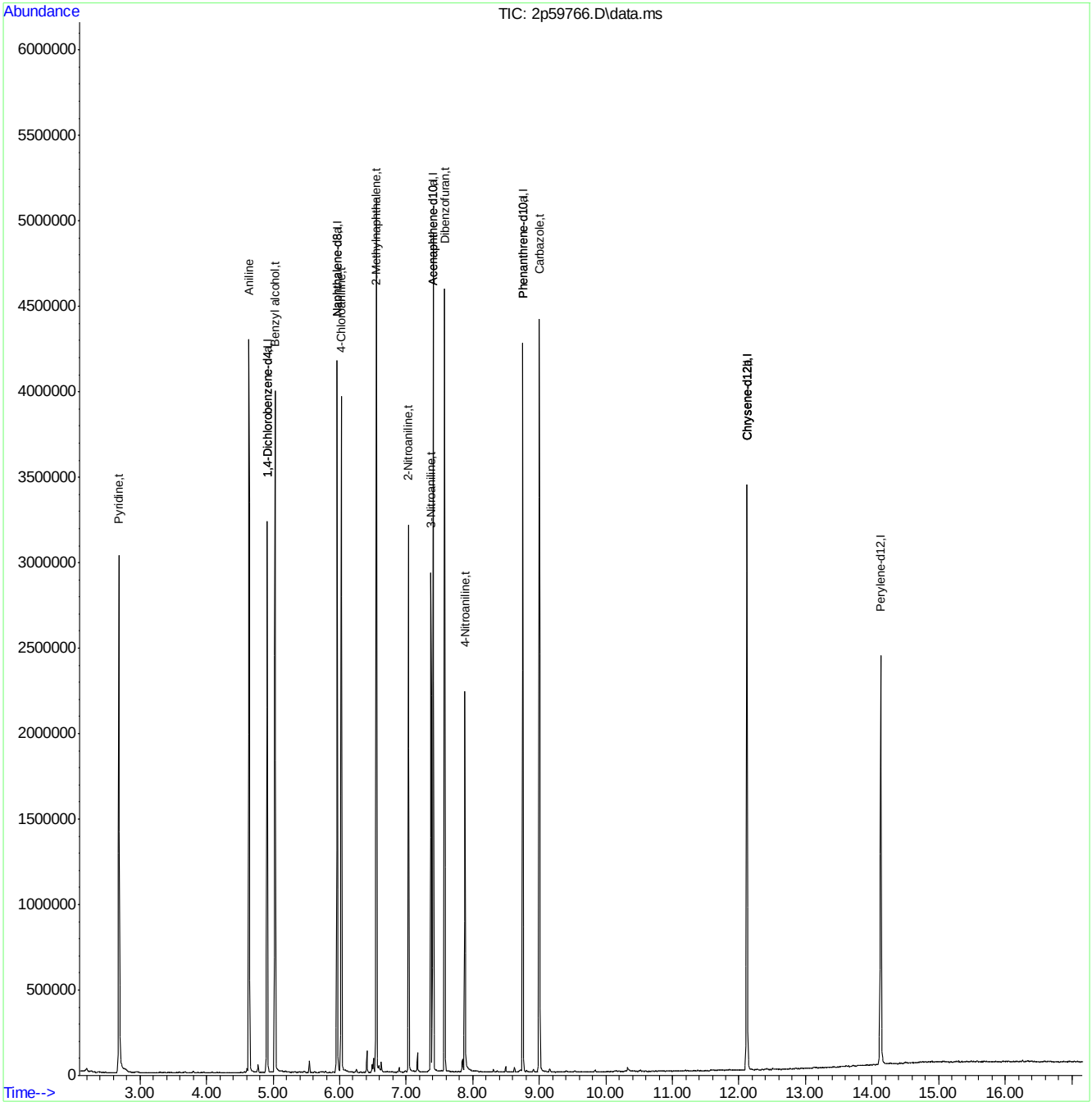
7

SGS ACCUTEST JC21347

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P2607\
Data File : 2p59766.D
Acq On : 2 Jun 2016 7:08 pm
Operator : robertl1
Sample : ICV2607-50
Misc : op94078,e2p2607
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jun 03 09:08:08 2016
Quant Method : C:\MSDCHEM\1\METHODS\M2P2606.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri Jun 03 08:53:00 2016
Response via : Initial Calibration



SGS ACCUTEST JC21347

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P2607\
Data File : 2p59767.D
Acq On : 2 Jun 2016 7:30 pm
Operator : robertl1
Sample : ICV2607-50
Misc : op94078,e2p2607
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Jun 03 09:09:03 2016
Quant Method : C:\MSDCHEM\1\METHODS\M2P2606.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri Jun 03 08:53:00 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.906	152	458041	40.00	ppm	0.00
24) Naphthalene-d8	5.959	136	1621151	40.00	ppm	0.00
47) Acenaphthene-d10	7.409	164	848628	40.00	ppm	0.00
69) Phenanthrene-d10	8.751	188	1370947	40.00	ppm	0.00
83) Chrysene-d12	12.121	240	1308513	40.00	ppm	-0.01
91) Perylene-d12	14.132	264	1159686	40.00	ppm	-0.01
101) 1,4-Dichlorobenzene-d4a	4.906	152	458041	40.00	ppm	0.00
103) Naphthalene-d8a	5.959	136	1621151	40.00	ppm	0.00
105) Acenaphthene-d10a	7.409	164	848628	40.00	ppm	0.00
108) Chrysene-d12a	12.121	240	1308513	40.00	ppm	0.00
110) Phenanthrene-d10a	8.751	188	1370947	40.00	ppm	0.00
113) Chrysene-d12b	12.121	240	1308513	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	3.793	112	788217	45.75	ppm	0.00
Spiked Amount 50.000	Range 11 - 58		Recovery = 91.50%#			
8) Phenol-d5	4.595	99	913251	44.65	ppm	0.00
Spiked Amount 50.000	Range 10 - 59		Recovery = 89.30%#			
25) Nitrobenzene-d5	5.366	82	723715	47.29	ppm	0.00
Spiked Amount 50.000	Range 19 - 61		Recovery = 94.58%#			
51) 2-Fluorobiphenyl	6.853	172	1440954	50.00	ppm	0.00
Spiked Amount 50.000	Range 21 - 58		Recovery = 100.00%#			
73) 2,4,6-Tribromophenol	8.077	330	180874	49.02	ppm	0.00
Spiked Amount 50.000	Range 12 - 68		Recovery = 98.04%#			
85) Terphenyl-d14	10.666	244	1308292	47.92	ppm	0.00
Spiked Amount 50.000	Range 16 - 65		Recovery = 95.84%#			
111) 1-chlorooctadecane	0.000	57	0	0.00	ppm	
112) O-terphenyl	0.000	230	0	0.00	ppm	

Target Compounds Qvalue

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

7.6.23

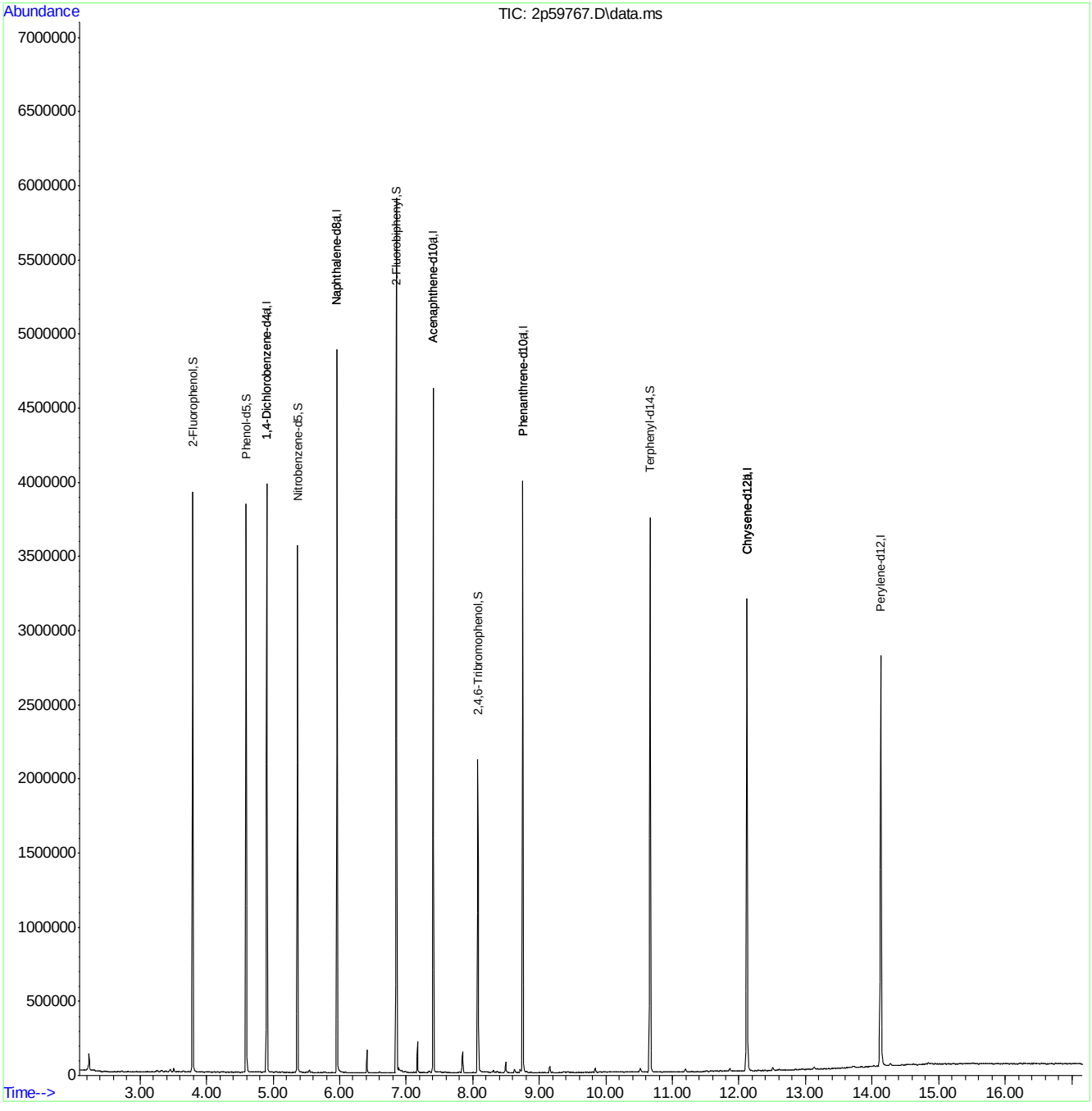
7

SGS ACCUTEST JC21347

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P2607\
Data File : 2p59767.D
Acq On : 2 Jun 2016 7:30 pm
Operator : robertl1
Sample : ICV2607-50
Misc : op94078,e2p2607
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Jun 03 09:09:03 2016
Quant Method : C:\MSDCHEM\1\METHODS\M2P2606.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri Jun 03 08:53:00 2016
Response via : Initial Calibration



SGS ACCUTEST JC21347

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P2607\
Data File : 2p59768.D
Acq On : 2 Jun 2016 7:52 pm
Operator : robertl1
Sample : ICV2607-50
Misc : op94078,e2p2607
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Jun 03 09:10:30 2016
Quant Method : C:\MSDCHEM\1\METHODS\M2P2606.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri Jun 03 08:53:00 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.906	152	580713	40.00	ppm	0.00
24) Naphthalene-d8	5.959	136	2038069	40.00	ppm	0.00
47) Acenaphthene-d10	7.409	164	1121189	40.00	ppm	0.00
69) Phenanthrene-d10	8.751	188	1864134	40.00	ppm	0.00
83) Chrysene-d12	12.121	240	1852492	40.00	ppm	-0.01
91) Perylene-d12	14.137	264	1661485	40.00	ppm	0.00
101) 1,4-Dichlorobenzene-d4a	4.906	152	580713	40.00	ppm	0.00
103) Naphthalene-d8a	5.959	136	2038069	40.00	ppm	0.00
105) Acenaphthene-d10a	7.409	164	1121189	40.00	ppm	0.00
108) Chrysene-d12a	12.121	240	1852492	40.00	ppm	0.00
110) Phenanthrene-d10a	8.751	188	1864134	40.00	ppm	# 0.00
113) Chrysene-d12b	12.121	240	1852492	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	0.000	112	0	0.00	ppm	
Spiked Amount 50.000	Range 11 - 58		Recovery = 0.00%#			
8) Phenol-d5	0.000	99	0	0.00	ppm	
Spiked Amount 50.000	Range 10 - 59		Recovery = 0.00%#			
25) Nitrobenzene-d5	0.000	82	0	0.00	ppm	
Spiked Amount 50.000	Range 19 - 61		Recovery = 0.00%#			
51) 2-Fluorobiphenyl	0.000	172	0d	0.00	ppm	
Spiked Amount 50.000	Range 21 - 58		Recovery = 0.00%#			
73) 2,4,6-Tribromophenol	0.000	330	0	0.00	ppm	
Spiked Amount 50.000	Range 12 - 68		Recovery = 0.00%#			
85) Terphenyl-d14	0.000	244	0	0.00	ppm	
Spiked Amount 50.000	Range 16 - 65		Recovery = 0.00%#			
111) 1-chlorooctadecane	0.000	57	0	0.00	ppm	
112) O-terphenyl	0.000	230	0	0.00	ppm	
Target Compounds						Qvalue
104) Hydroquinone	6.302	110	887499	56.67	ppm	95

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

7.6.24

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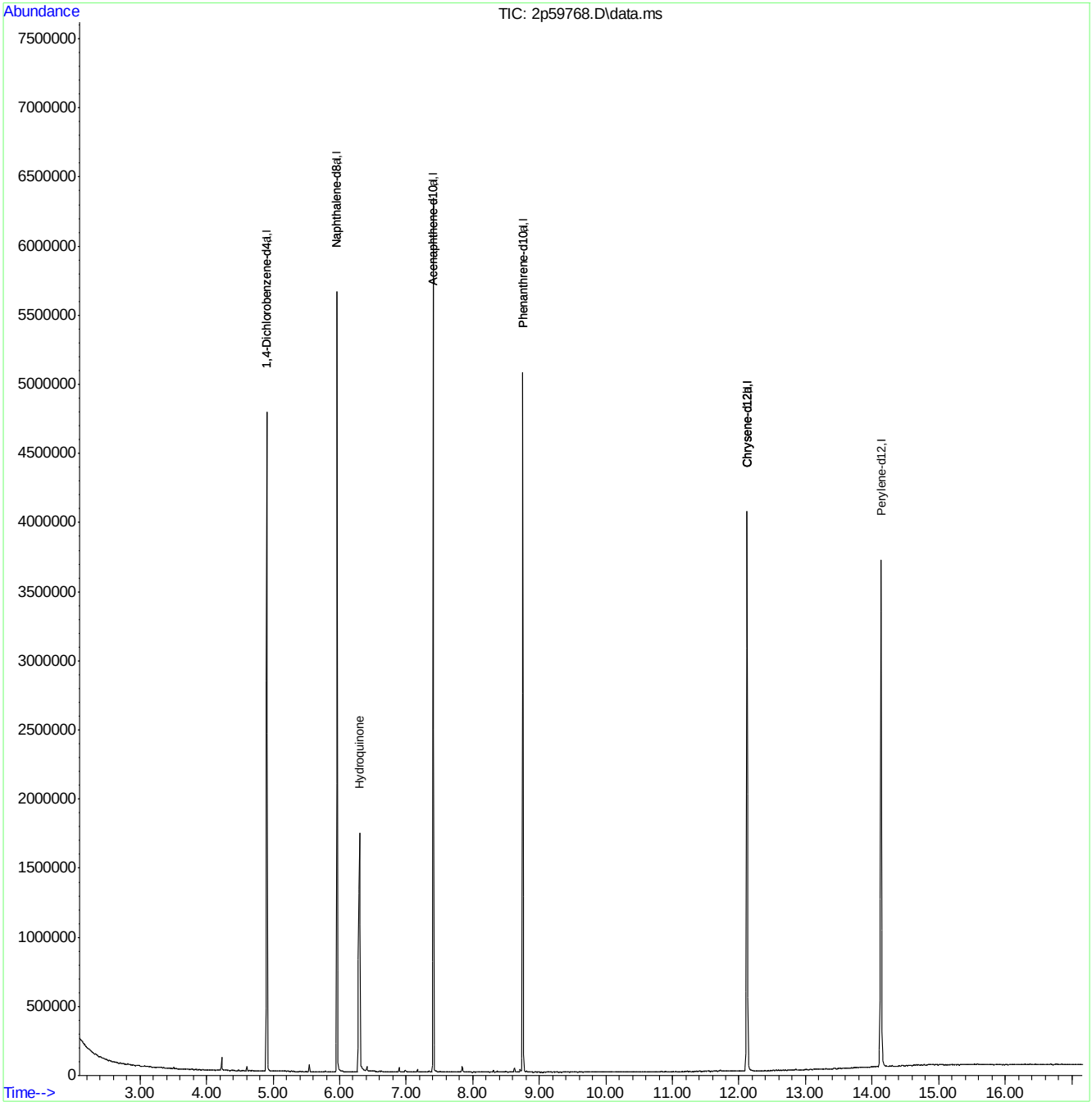
SGS ACCUTEST JC21347

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P2607\
Data File : 2p59768.D
Acq On : 2 Jun 2016 7:52 pm
Operator : robertl1
Sample : ICV2607-50
Misc : op94078,e2p2607
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Jun 03 09:10:30 2016
Quant Method : C:\MSDCHEM\1\METHODS\M2P2606.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri Jun 03 08:53:00 2016
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P2614\
Data File : 2p59932.D
Acq On : 8 Jun 2016 10:09 am
Operator : robertl1
Sample : CC2606-25
Misc : op94078,e2p2614
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 09 13:46:01 2016
Quant Method : C:\MSDCHEM\1\METHODS\M2P2606.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri Jun 03 08:53:01 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.863	152	311932	40.00	ppm	-0.04
24) Naphthalene-d8	5.916	136	1030774	40.00	ppm	-0.05
47) Acenaphthene-d10	7.366	164	587875	40.00	ppm	-0.04
69) Phenanthrene-d10	8.708	188	1027159	40.00	ppm	-0.05
83) Chrysene-d12	12.078	240	993729	40.00	ppm	-0.05
91) Perylene-d12	14.095	264	745113	40.00	ppm	-0.05
101) 1,4-Dichlorobenzene-d4a	4.863	152	311932	40.00	ppm	-0.04
103) Naphthalene-d8a	5.916	136	1030774	40.00	ppm	#-0.04
105) Acenaphthene-d10a	7.366	164	587875	40.00	ppm	-0.04
108) Chrysene-d12a	12.078	240	993729	40.00	ppm	-0.05
System Monitoring Compounds						
5) 2-Fluorophenol	3.766	112	291339	24.83	ppm	-0.02
Spiked Amount 50.000	Range 11 - 58		Recovery = 49.66%			
8) Phenol-d5	4.579	99	332571	23.88	ppm	-0.02
Spiked Amount 50.000	Range 10 - 59		Recovery = 47.76%			
25) Nitrobenzene-d5	5.323	82	245471	25.22	ppm	-0.05
Spiked Amount 50.000	Range 19 - 61		Recovery = 50.44%			
51) 2-Fluorobiphenyl	6.810	172	498340	24.96	ppm	-0.04
Spiked Amount 50.000	Range 21 - 58		Recovery = 49.92%			
73) 2,4,6-Tribromophenol	8.040	330	70108	25.36	ppm	-0.04
Spiked Amount 50.000	Range 12 - 68		Recovery = 50.72%			
85) Terphenyl-d14	10.613	244	542425	26.16	ppm	-0.05
Spiked Amount 50.000	Range 16 - 65		Recovery = 52.32%			
Target Compounds						Qvalue
2) 1,4-Dioxane	2.183	88	128710	24.37	ppm	96
3) Pyridine	2.520	79	304312	24.84	ppm	71
4) N-Nitrosodimethylamine	2.483	74	175196	25.12	ppm #	11
6) Indene	5.071	116	425496	25.22	ppm	98
7) Cumene	4.184	105	674861	25.41	ppm	98
9) Phenol	4.590	94	369510	25.11	ppm #	40
10) Aniline	4.590	93	386055	22.88	ppm #	25
11) bis(2-Chloroethyl)ether	4.643	93	230571	24.15	ppm	89
12) 2-Chlorophenol	4.692	128	291030	24.99	ppm	91
13) Decane	4.724	57	400776	25.29	ppm	80
14) 1,3-Dichlorobenzene	4.809	146	323972	24.54	ppm	98
15) 1,4-Dichlorobenzene	4.873	146	313183	24.69	ppm	99
16) Benzyl alcohol	4.986	108	162574	24.78	ppm	92
17) 1,2-Dichlorobenzene	5.002	146	287699	24.42	ppm	96
18) Acetophenone	5.200	105	315563	25.06	ppm	87
19) 2-Methylphenol	5.087	108	218559	24.09	ppm	93
20) 2,2'-oxybis(1-Chloropr...	5.093	121	75782	23.58	ppm #	43
21) 3&4-Methylphenol	5.216	108	237648	25.11	ppm	95
22) n-Nitroso-di-n-propyla...	5.200	70	152718	24.23	ppm #	63
23) Hexachloroethane	5.280	201	103745	24.45	ppm #	77
26) Nitrobenzene	5.339	77	233442	25.26	ppm	95
27) Quinoline	6.216	129	482549	24.69	ppm	95
28) Isophorone	5.537	82	421958	24.63	ppm	82

SGS ACCUTEST JC21347

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P2614\
Data File : 2p59932.D
Acq On : 8 Jun 2016 10:09 am
Operator : robertl1
Sample : CC2606-25
Misc : op94078,e2p2614
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 09 13:46:01 2016
Quant Method : C:\MSDCHEM\1\METHODS\M2P2606.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri Jun 03 08:53:01 2016
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
29)	2-Nitrophenol	5.606	139	144447	27.08	ppm		75
30)	2,4-Dimethylphenol	5.649	107	227912	24.46	ppm		98
31)	Benzoic acid	5.740	105	151777	22.60	ppm		93
32)	bis(2-Chloroethoxy)met...	5.719	93	248813	25.13	ppm		97
33)	2,4-Dichlorophenol	5.809	162	218062	25.42	ppm		97
34)	2,6-Dichlorophenol	5.991	162	205377	26.22	ppm		98
35)	1,3,5-Trichlorobenzene	5.612	180	242113	25.45	ppm		95
36)	1,2,4-Trichlorobenzene	5.868	180	233534	25.68	ppm		97
37)	1,2,3-Trichlorobenzene	6.056	180	217296	25.61	ppm		90
38)	Naphthalene	5.938	128	687819	25.38	ppm		99
39)	4-Chloroaniline	5.986	127	289395	25.27	ppm		97
40)	2,3-Dichloroaniline	6.740	161	256289	25.40	ppm		94
41)	Caprolactam	6.275	113	77536	24.74	ppm		82
42)	Hexachlorobutadiene	6.034	225	126715	25.77	ppm		98
43)	4-Chloro-3-methylphenol	6.398	107	210867	25.63	ppm		93
44)	2-Methylnaphthalene	6.505	141	402346	25.22	ppm		93
45)	1-Methylnaphthalene	6.590	141	418348	25.57	ppm		95
46)	Dimethylnaphthalene	7.024	156	421685	25.48	ppm		98
48)	Hexachlorocyclopentadiene	6.633	237	247554	44.29	ppm		94
49)	2,4,6-Trichlorophenol	6.745	196	153599	26.02	ppm		96
50)	2,4,5-Trichlorophenol	6.783	196	163757	25.76	ppm		98
52)	2-Chloronaphthalene	6.911	162	435492	24.87	ppm		97
53)	Biphenyl	6.890	154	563079	24.79	ppm		97
54)	2-Nitroaniline	6.997	65	143330	25.90	ppm		87
55)	Dimethylphthalate	7.141	163	484928	24.55	ppm		100
56)	Acenaphthylene	7.248	152	732732	25.24	ppm		99
57)	2,6-Dinitrotoluene	7.195	165	112108	25.84	ppm		85
58)	3-Nitroaniline	7.334	138	140849	25.57	ppm		95
59)	Acenaphthene	7.393	153	427068	24.90	ppm		99
60)	2,4-Dinitrophenol	7.425	184	117028	47.62	ppm	#	100
61)	4-Nitrophenol	7.494	109	63368	25.51	ppm		96
62)	Dibenzofuran	7.537	168	587217	25.05	ppm		96
63)	2,4-Dinitrotoluene	7.526	165	145422	26.12	ppm		97
64)	2,3,4,6-Tetrachlorophenol	7.644	232	132498	24.75	ppm		89
65)	Diethylphthalate	7.730	149	486022	25.48	ppm		93
66)	Fluorene	7.826	166	481391	25.28	ppm		97
67)	4-Chlorophenyl-phenyle...	7.826	204	222109	25.10	ppm		97
68)	4-Nitroaniline	7.847	138	141909	26.10	ppm		92
70)	4,6-Dinitro-2-methylph...	7.874	198	88398	27.14	ppm		90
71)	n-Nitrosodiphenylamine	7.928	169	345601	24.86	ppm		98
72)	1,2-Diphenylhydrazine	7.965	77	430948	24.13	ppm		82
74)	4-Bromophenyl-phenylether	8.265	248	143867	24.61	ppm		96
75)	Hexachlorobenzene	8.318	284	155655	24.37	ppm		88
76)	Pentachlorophenol	8.521	266	189465	44.49	ppm		98
77)	Phenanthrene	8.730	178	705568	24.87	ppm		98
78)	Anthracene	8.783	178	718066	25.35	ppm		99
79)	Carbazole	8.960	167	687286	24.55	ppm		97
80)	Di-n-butylphthalate	9.350	149	872902	25.43	ppm		99
81)	Fluoranthene	10.094	202	876358	25.81	ppm		92
82)	Octadecane	8.591	43	405293	27.08	ppm	#	69

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P2614\
Data File : 2p59932.D
Acq On : 8 Jun 2016 10:09 am
Operator : robertl1
Sample : CC2606-25
Misc : op94078,e2p2614
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 09 13:46:01 2016
Quant Method : C:\MSDCHEM\1\METHODS\M2P2606.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri Jun 03 08:53:01 2016
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
84)	Pyrene	10.383	202	891844	26.41	ppm	98
86)	Butylbenzylphthalate	11.324	149	400574	26.53	ppm	88
87)	Benzo[a]anthracene	12.062	228	748116	24.51	ppm	99
88)	3,3'-Dichlorobenzidine	12.057	252	284750	25.96	ppm	95
89)	Chrysene	12.110	228	696703	24.93	ppm	99
90)	bis(2-Ethylhexyl)phtha...	12.201	149	491660	27.06	ppm	98
92)	Di-n-octylphthalate	13.153	149	827745	29.88	ppm	96
93)	Benzo[b]fluoranthene	13.581	252	625935	25.14	ppm	93
94)	Benzo[k]fluoranthene	13.624	252	585078	27.09	ppm	88
95)	Benzo[a]pyrene	14.014	252	549458	25.05	ppm	91
96)	Indeno[1,2,3-cd]pyrene	15.614	276	478976	23.99	ppm	81
97)	Dibenz(a,h)acridine	15.266	279	424611	22.87	ppm	94
98)	Dibenz[a,h]anthracene	15.656	278	481314	24.32	ppm	88
99)	7,12-Dimethylbenz(a)an...	13.581	256	277528	25.39	ppm	96
100)	Benzo[g,h,i]perylene	16.047	276	491522	23.27	ppm	86

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

7.6.25

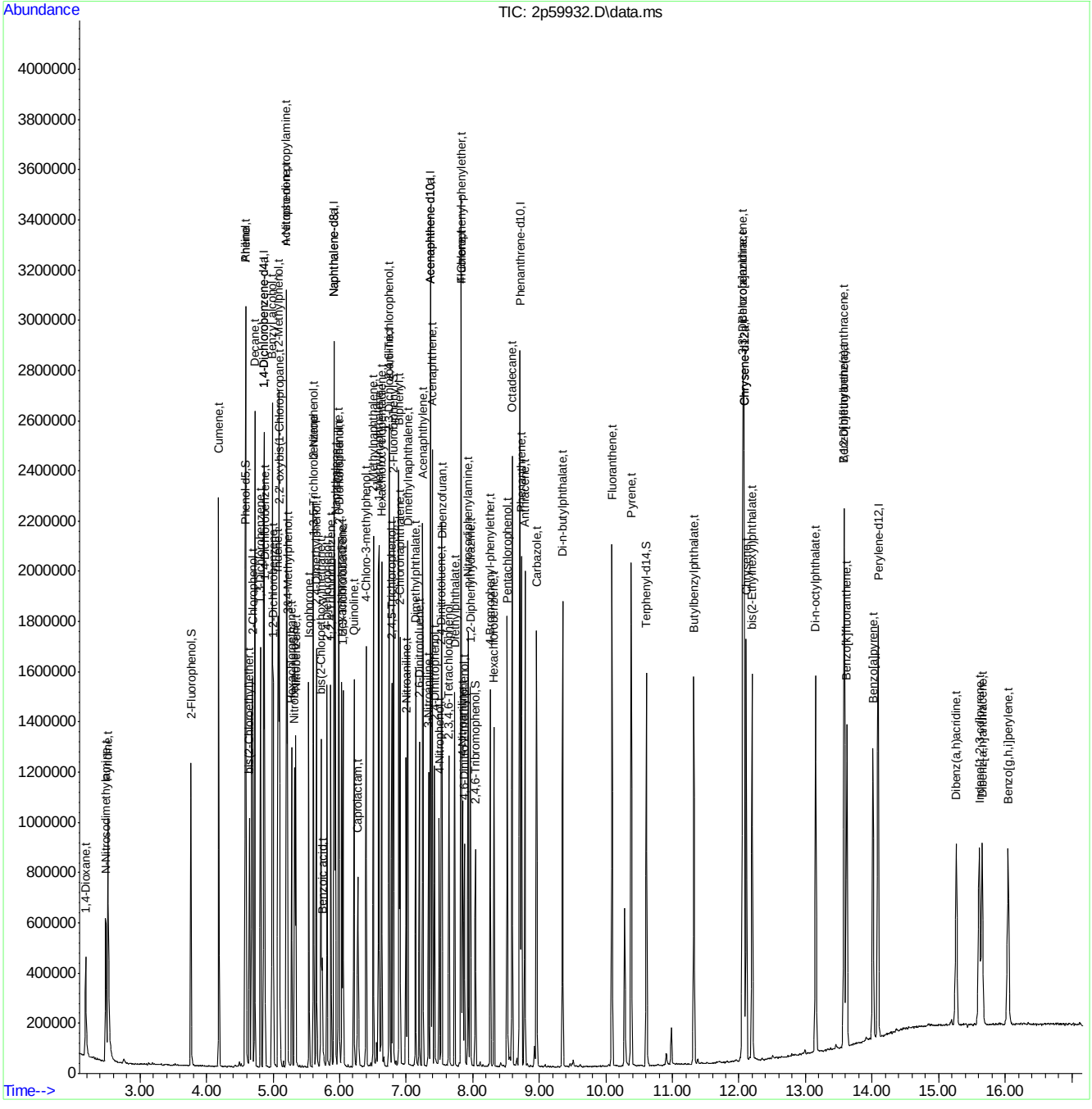
7

SGS ACCUTEST JC21347

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P2614\
Data File : 2p59932.D
Acq On : 8 Jun 2016 10:09 am
Operator : robertl1
Sample : CC2606-25
Misc : op94078,e2p2614
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 09 13:46:01 2016
Quant Method : C:\MSDCHEM\1\METHODS\M2P2606.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri Jun 03 08:53:01 2016
Response via : Initial Calibration



SGS ACCUTEST JC21347

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P2614\
Data File : 2p59933.D
Acq On : 8 Jun 2016 10:35 am
Operator : robertl1
Sample : CC2604-25
Misc : op94078,e2p2614
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 09 13:47:02 2016
Quant Method : C:\MSDCHEM\1\METHODS\M2P2606.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri Jun 03 08:53:01 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.863	152	461267	40.00	ppm	-0.04
24) Naphthalene-d8	5.916	136	1628274	40.00	ppm	-0.05
47) Acenaphthene-d10	7.366	164	916589	40.00	ppm	-0.04
69) Phenanthrene-d10	8.708	188	1509867	40.00	ppm	-0.05
83) Chrysene-d12	12.073	240	1386706	40.00	ppm	-0.06
91) Perylene-d12	14.094	264	1017765	40.00	ppm	-0.05
101) 1,4-Dichlorobenzene-d4a	4.863	152	461267	40.00	ppm	-0.04
103) Naphthalene-d8a	5.916	136	1628274	40.00	ppm	-0.04
105) Acenaphthene-d10a	7.366	164	916589	40.00	ppm	-0.04
108) Chrysene-d12a	12.073	240	1386706	40.00	ppm	-0.05
System Monitoring Compounds						
5) 2-Fluorophenol	0.000	112	0	0.00	ppm	
Spiked Amount 50.000	Range 11 - 58		Recovery	=	0.00%#	
8) Phenol-d5	0.000	99	0	0.00	ppm	
Spiked Amount 50.000	Range 10 - 59		Recovery	=	0.00%#	
25) Nitrobenzene-d5	0.000	82	0	0.00	ppm	
Spiked Amount 50.000	Range 19 - 61		Recovery	=	0.00%#	
51) 2-Fluorobiphenyl	0.000	172	0d	0.00	ppm	
Spiked Amount 50.000	Range 21 - 58		Recovery	=	0.00%#	
73) 2,4,6-Tribromophenol	0.000	330	0	0.00	ppm	
Spiked Amount 50.000	Range 12 - 68		Recovery	=	0.00%#	
85) Terphenyl-d14	0.000	244	0	0.00	ppm	
Spiked Amount 50.000	Range 16 - 65		Recovery	=	0.00%#	
Target Compounds						Qvalue
102) Benzaldehyde	4.494	105	276407	24.48	ppm	# 88
104) Hydroquinone	6.269	110	334697	26.75	ppm	# 93
106) Atrazine	8.430	215	100509	25.07	ppm	# 77
107) 1,2,4,5-Tetrachloroben...	6.644	216	324272	23.82	ppm	98
109) Benzidine	10.286	184	539159	38.06	ppm	98

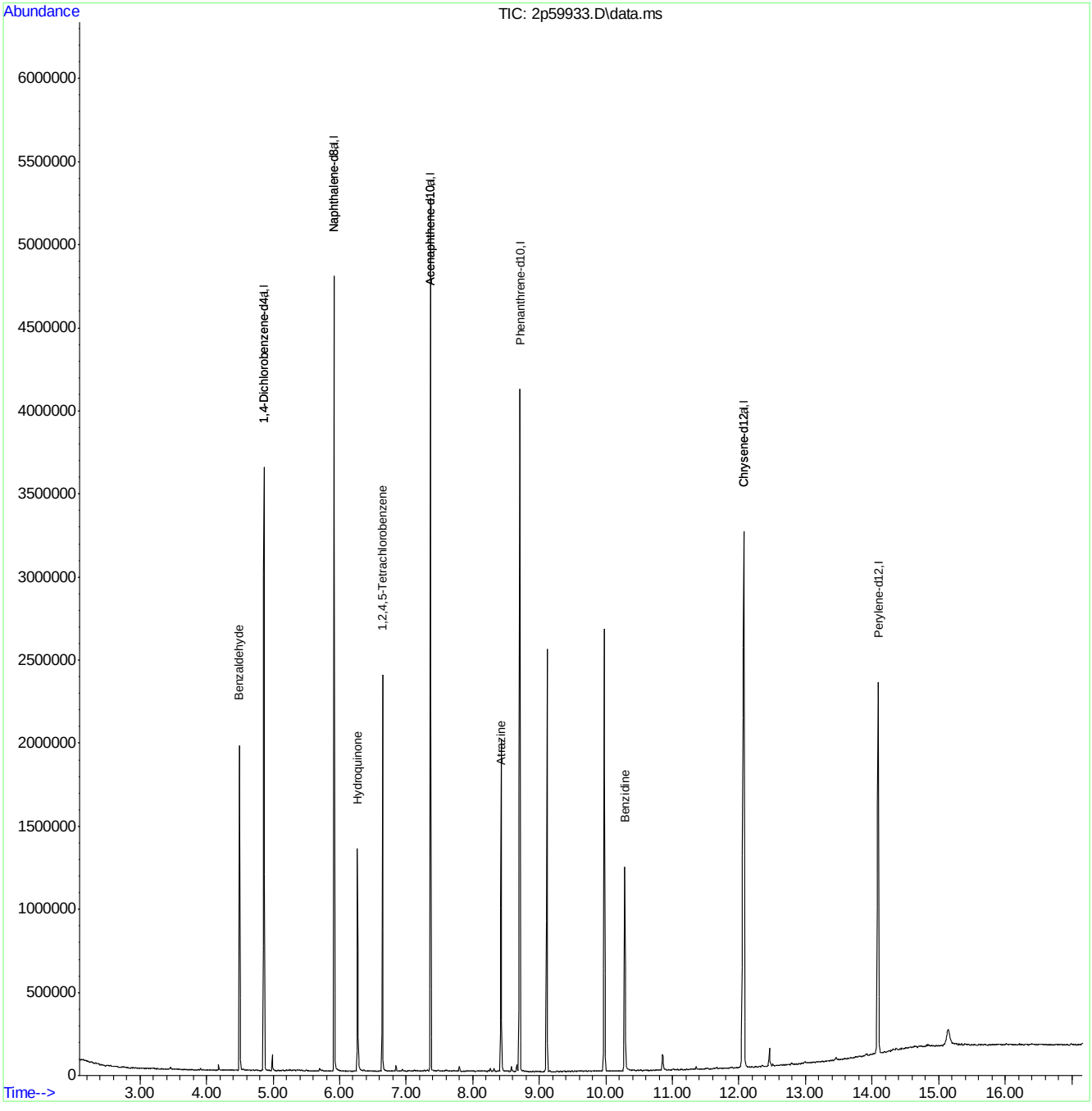
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC21347

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P2614\
Data File : 2p59933.D
Acq On : 8 Jun 2016 10:35 am
Operator : robertl1
Sample : CC2604-25
Misc : op94078,e2p2614
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 09 13:47:02 2016
Quant Method : C:\MSDCHEM\1\METHODS\M2P2606.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri Jun 03 08:53:01 2016
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2887\
Data File : 3m61387a.D
Acq On : 17 May 2016 12:27 pm
Operator : linseyk
Sample : icc2887-1
Misc : op99506a,e3m2887
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 17 14:49:05 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2887SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Tue May 17 14:48:46 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	10.262	150	620786	4.00	ppm	0.00
14) Fluorene-d10	13.262	176	1084008	4.00	ppm	0.00
21) Fluoranthene-d10	17.479	212	1787512	4.00	ppm	0.00
31) Benzo(a)pyrene-d12	22.099	264	1469201	4.00	ppm	0.00
System Monitoring Compounds						
3) 2-Fluorophenol	4.245	112	1660940	20.00	ppm	0.00
Spiked Amount 50.000			Recovery = 40.00%			
4) Phenol-d5	5.859	99	2678606	20.00	ppm	0.00
Spiked Amount 50.000			Recovery = 40.00%			
7) Nitrobenzene-d5	7.400	82	2303574	20.00	ppm	0.00
Spiked Amount 50.000			Recovery = 40.00%			
15) 2-Fluorobiphenyl	10.939	172	5004755	20.00	ppm	0.00
Spiked Amount 50.000			Recovery = 40.00%			
20) 2,4,6-Tribromophenol	13.827	330	565868	20.00	ppm	0.00
Spiked Amount 50.000			Recovery = 40.00%			
28) Terphenyl-d14	18.298	244	4956988	20.00	ppm	0.00
Spiked Amount 50.000			Recovery = 40.00%			
Target Compounds						Qvalue
2) 1,4-dioxane	2.035	88	33649	0.91	ppm	100
5) Phenol	5.883	94	706558	5.00	ppm	100
6) bis(2-Chloroethyl)ether	5.968	93	100253	0.98	ppm	77
8) Nitrobenzene	7.419	77	127863	1.00	ppm	100
9) Naphthalene	8.775	128	357787	1.00	ppm	100
10) Hexachlorobutadiene	9.057	225	56499	1.00	ppm	100
11) 2-Methylnaphthalene	10.159	141	183182	1.00	ppm	100
12) 1-Methylnaphthalene	10.344	141	207642	1.00	ppm	100
13) Hexachlorocyclopentadiene	10.487	237	60970	2.00	ppm	100
16) Acenaphthylene	11.913	152	366028	1.00	ppm	100
17) Acenaphthene	12.268	153	235849	1.00	ppm	100
18) 4,6-dinitro-2-methylph...	13.507	198	129942	5.00	ppm	100
19) Fluorene	13.318	166	288245	1.00	ppm	100
22) Hexachlorobenzene	14.403	284	77257	1.00	ppm	100
23) Pentachlorophenol	14.852	266	157288	4.99	ppm	100
24) Phenanthrene	15.223	178	413617	1.00	ppm	100
25) Anthracene	15.315	178	406143	1.00	ppm	100
26) Fluoranthene	17.510	202	477859	1.00	ppm	100
27) Pyrene	17.896	202	470269	1.00	ppm	100
29) Benzo[a]anthracene	19.998	228	413326	1.00	ppm	100
30) Chrysene	20.060	228	426311	0.98	ppm	100
32) Benzo[b]fluoranthene	21.666	252	446702	1.00	ppm	100
33) Benzo[k]fluoranthene	21.713	252	418283	1.00	ppm	100
34) Benzo[a]pyrene	22.114	252	409528	1.00	ppm	100
35) Indeno[1,2,3-cd]pyrene	23.562	276	485782	1.00	ppm	100
36) Dibenz[a,h]anthracene	23.600	278	397987	1.00	ppm	100
37) Benzo[g,h,i]perylene	23.920	276	405420	1.00	ppm	100

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2887\
Data File : 3m61387a.D
Acq On : 17 May 2016 12:27 pm
Operator : linseyk
Sample : icc2887-1
Misc : op99506a,e3m2887
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 17 14:49:05 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2887SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Tue May 17 14:48:46 2016
Response via : Initial Calibration

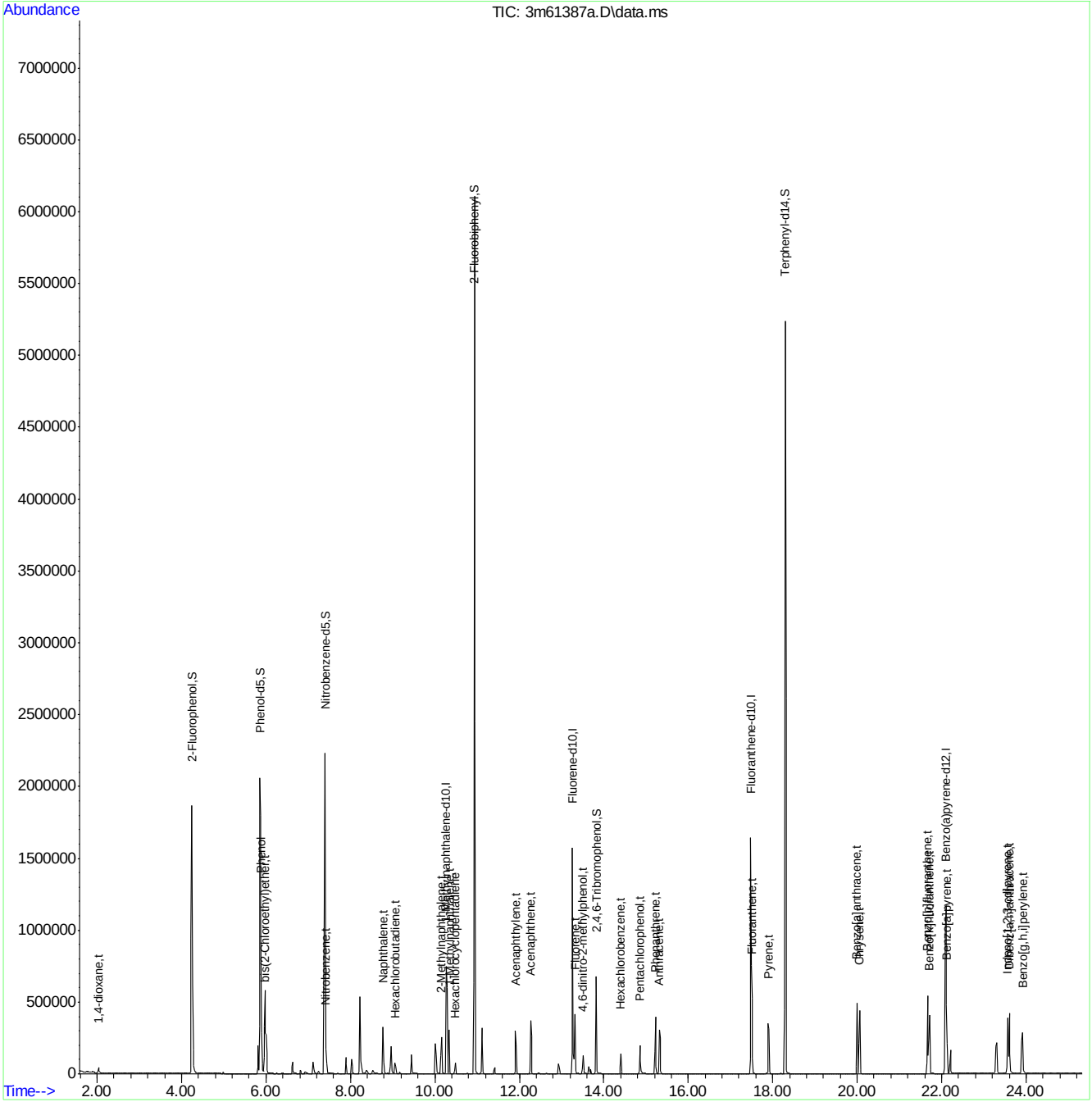
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2887\
Data File : 3m61387a.D
Acq On : 17 May 2016 12:27 pm
Operator : linseyk
Sample : icc2887-1
Misc : op99506a,e3m2887
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 17 14:49:05 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2887SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Tue May 17 14:48:46 2016
Response via : Initial Calibration



SGS ACCUTEST JC21347

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2887\
Data File : 3m61388a.D
Acq On : 17 May 2016 12:59 pm
Operator : linseyk
Sample : ic2887-.5
Misc : op99506a,e3m2887
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 17 14:49:07 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2887SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Tue May 17 14:48:46 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	10.262	150	636436	4.00	ppm	0.00
14) Fluorene-d10	13.262	176	1072622	4.00	ppm	0.00
21) Fluoranthene-d10	17.479	212	1770227	4.00	ppm	0.00
31) Benzo(a)pyrene-d12	22.084	264	1405497	4.00	ppm	-0.02
System Monitoring Compounds						
3) 2-Fluorophenol	4.245	112	859426	10.09	ppm	0.00
Spiked Amount 50.000			Recovery = 20.18%			
4) Phenol-d5	5.859	99	1402828	10.22	ppm	0.00
Spiked Amount 50.000			Recovery = 20.44%			
7) Nitrobenzene-d5	7.382	82	1136271	9.62	ppm	-0.02
Spiked Amount 50.000			Recovery = 19.24%			
15) 2-Fluorobiphenyl	10.939	172	2699184	10.90	ppm	0.00
Spiked Amount 50.000			Recovery = 21.80%			
20) 2,4,6-Tribromophenol	13.808	330	281758	10.06	ppm	-0.02
Spiked Amount 50.000			Recovery = 20.12%			
28) Terphenyl-d14	18.298	244	2591898	10.56	ppm	0.00
Spiked Amount 50.000			Recovery = 21.12%			
Target Compounds						Qvalue
2) 1,4-dioxane	2.035	88	17661	0.47	ppm	97
5) Phenol	5.883	94	365661	2.52	ppm	97
6) bis(2-Chloroethyl)ether	5.968	93	50994	0.49	ppm #	70
8) Nitrobenzene	7.419	77	64148	0.49	ppm	95
9) Naphthalene	8.775	128	186227	0.51	ppm	99
10) Hexachlorobutadiene	9.057	225	29056	0.50	ppm	97
11) 2-Methylnaphthalene	10.159	141	94032	0.50	ppm	98
12) 1-Methylnaphthalene	10.344	141	105614	0.50	ppm	99
13) Hexachlorocyclopentadiene	10.487	237	23279	0.74	ppm	100
16) Acenaphthylene	11.913	152	187265	0.52	ppm	99
17) Acenaphthene	12.269	153	119772	0.51	ppm	99
18) 4,6-dinitro-2-methylph...	13.507	198	41561	1.62	ppm	98
19) Fluorene	13.318	166	148481	0.52	ppm	99
22) Hexachlorobenzene	14.403	284	38753	0.51	ppm	98
23) Pentachlorophenol	14.852	266	65464	2.10	ppm	96
24) Phenanthrene	15.223	178	207487	0.51	ppm	100
25) Anthracene	15.316	178	196381	0.49	ppm	99
26) Fluoranthene	17.510	202	238528	0.50	ppm	99
27) Pyrene	17.897	202	231554	0.50	ppm	99
29) Benzo[a]anthracene	19.998	228	209471	0.51	ppm	99
30) Chrysene	20.060	228	215207	0.50	ppm	99
32) Benzo[b]fluoranthene	21.667	252	222470	0.52	ppm	100
33) Benzo[k]fluoranthene	21.713	252	208853	0.52	ppm	99
34) Benzo[a]pyrene	22.115	252	206984	0.53	ppm	99
35) Indeno[1,2,3-cd]pyrene	23.562	276	241790	0.52	ppm	100
36) Dibenz[a,h]anthracene	23.600	278	184419	0.48	ppm	100
37) Benzo[g,h,i]perylene	23.901	276	205005	0.53	ppm	96

SGS ACCUTEST JC21347

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2887\
Data File : 3m61388a.D
Acq On : 17 May 2016 12:59 pm
Operator : linseyk
Sample : ic2887-.5
Misc : op99506a,e3m2887
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 17 14:49:07 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2887SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Tue May 17 14:48:46 2016
Response via : Initial Calibration

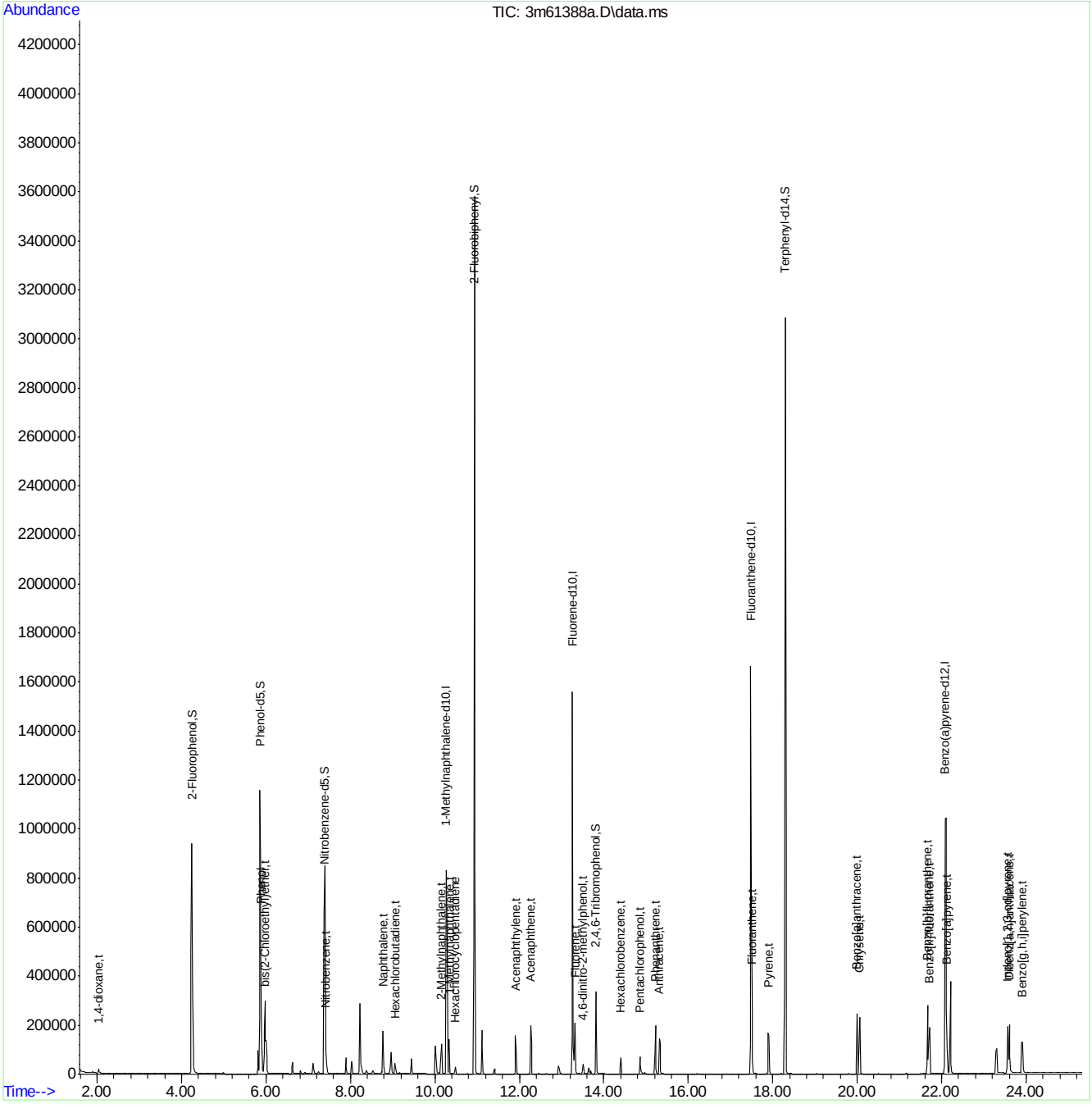
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2887\
Data File : 3m61388a.D
Acq On : 17 May 2016 12:59 pm
Operator : linseyk
Sample : ic2887-.5
Misc : op99506a,e3m2887
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 17 14:49:07 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2887SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Tue May 17 14:48:46 2016
Response via : Initial Calibration



SGS ACCUTEST JC21347

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2887\
Data File : 3m61390a.D
Acq On : 17 May 2016 2:04 pm
Operator : linseyk
Sample : ic2887-.1
Misc : op99506a,e3m2887
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 17 14:49:11 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2887SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Tue May 17 14:48:46 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1-Methylnaphthalene-d10	10.262	150	489285	4.00 ppm	0.00
14) Fluorene-d10	13.262	176	787747	4.00 ppm	0.00
21) Fluoranthene-d10	17.479	212	1268173	4.00 ppm	0.00
31) Benzo(a)pyrene-d12	22.084	264	1018171	4.00 ppm	-0.02
System Monitoring Compounds					
3) 2-Fluorophenol	4.245	112	123757	1.89 ppm	0.00
Spiked Amount 50.000			Recovery	= 3.78%	
4) Phenol-d5	5.859	99	196848	1.86 ppm	0.00
Spiked Amount 50.000			Recovery	= 3.72%	
7) Nitrobenzene-d5	7.381	82	161090	1.77 ppm	-0.02
Spiked Amount 50.000			Recovery	= 3.54%	
15) 2-Fluorobiphenyl	10.939	172	393011	2.16 ppm	0.00
Spiked Amount 50.000			Recovery	= 4.32%	
20) 2,4,6-Tribromophenol	13.808	330	32537	1.58 ppm	-0.02
Spiked Amount 50.000			Recovery	= 3.16%	
28) Terphenyl-d14	18.298	244	371053	2.11 ppm	0.00
Spiked Amount 50.000			Recovery	= 4.22%	
Target Compounds					Qvalue
2) 1,4-dioxane	2.035	88	2876	0.10 ppm #	63
5) Phenol	5.883	94	50697	0.46 ppm	98
6) bis(2-Chloroethyl)ether	5.968	93	7244	0.09 ppm #	71
8) Nitrobenzene	7.419	77	8844	0.09 ppm	94
9) Naphthalene	8.775	128	26624	0.09 ppm	98
10) Hexachlorobutadiene	9.057	225	4311	0.10 ppm	96
11) 2-Methylnaphthalene	10.159	141	13512	0.09 ppm	97
12) 1-Methylnaphthalene	10.344	141	15375	0.09 ppm	98
13) Hexachlorocyclopentadiene	10.487	237	700	0.03 ppm	93
16) Acenaphthylene	11.913	152	24522	0.09 ppm	98
17) Acenaphthene	12.269	153	16615	0.10 ppm	97
18) 4,6-dinitro-2-methylph...	13.525	198	944	0.05 ppm	98
19) Fluorene	13.318	166	20274	0.10 ppm	100
22) Hexachlorobenzene	14.403	284	5368	0.10 ppm	96
23) Pentachlorophenol	14.867	266	3945	0.18 ppm	91
24) Phenanthrene	15.223	178	27700	0.09 ppm	100
25) Anthracene	15.316	178	24588	0.09 ppm	100
26) Fluoranthene	17.510	202	34585	0.10 ppm	99
27) Pyrene	17.897	202	30522	0.09 ppm	98
29) Benzo[a]anthracene	19.998	228	26197	0.09 ppm	98
30) Chrysene	20.060	228	27480	0.09 ppm	99
32) Benzo[b]fluoranthene	21.666	252	28781	0.09 ppm	99
33) Benzo[k]fluoranthene	21.713	252	25738	0.09 ppm	100
34) Benzo[a]pyrene	22.115	252	26792	0.09 ppm	98
35) Indeno[1,2,3-cd]pyrene	23.562	276	32551	0.10 ppm	100
36) Dibenz[a,h]anthracene	23.600	278	26391	0.10 ppm	100
37) Benzo[g,h,i]perylene	23.920	276	27261	0.10 ppm	100

SGS ACCUTEST JC21347

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2887\
Data File : 3m61390a.D
Acq On : 17 May 2016 2:04 pm
Operator : linseyk
Sample : ic2887-.1
Misc : op99506a,e3m2887
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 17 14:49:11 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2887SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Tue May 17 14:48:46 2016
Response via : Initial Calibration

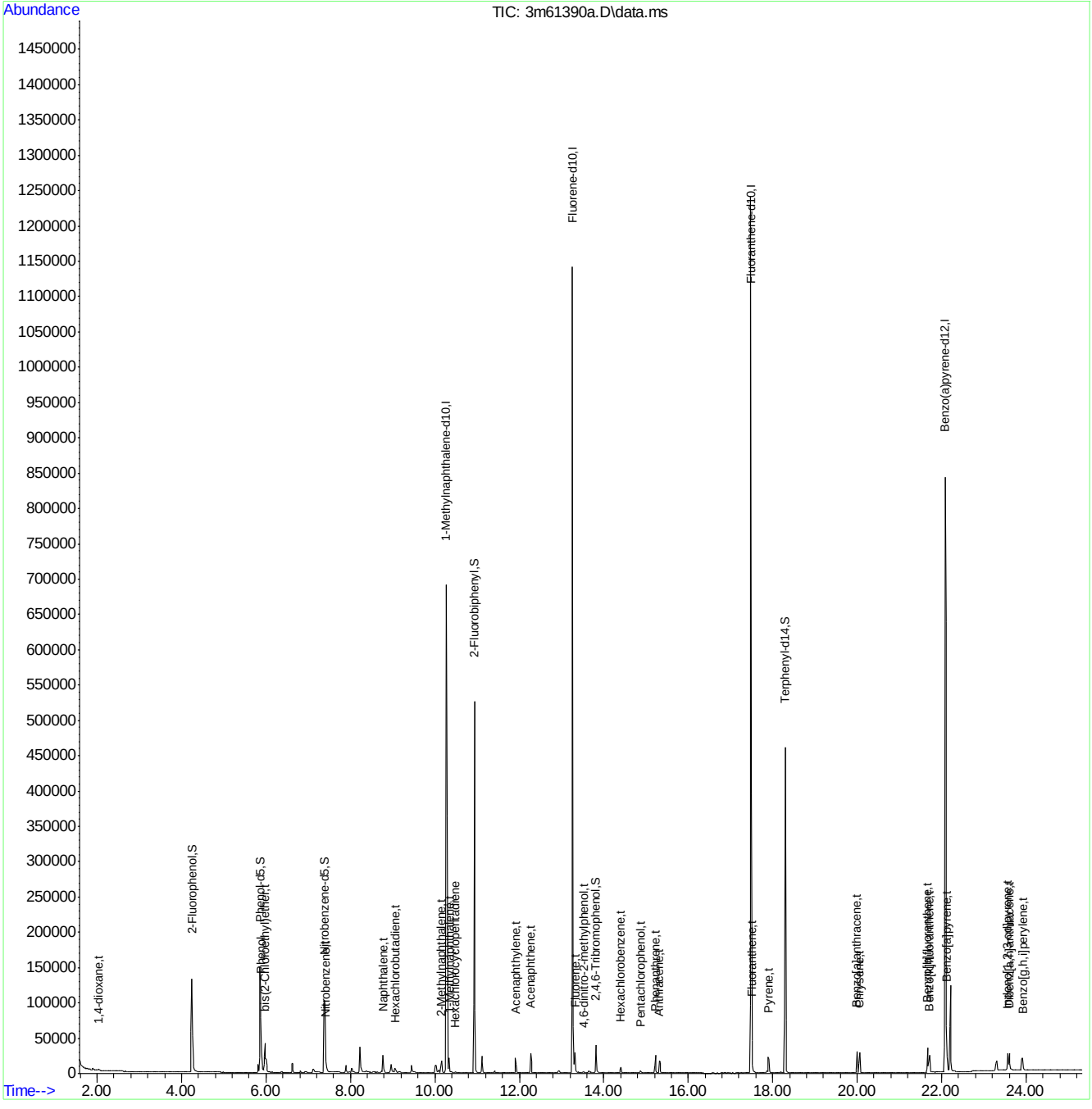
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2887\
Data File : 3m61390a.D
Acq On : 17 May 2016 2:04 pm
Operator : linseyk
Sample : ic2887-.1
Misc : op99506a,e3m2887
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 17 14:49:11 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2887SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Tue May 17 14:48:46 2016
Response via : Initial Calibration



SGS ACCUTEST JC21347

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2887\
Data File : 3m61391a.D
Acq On : 17 May 2016 2:36 pm
Operator : linseyk
Sample : ic2887-.05
Misc : op99506a,e3m2887
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 17 15:05:34 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2887SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Tue May 17 14:52:15 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1-Methylnaphthalene-d10	10.262	150	589916	4.00 ppm	0.00
14) Fluorene-d10	13.262	176	964928	4.00 ppm	0.00
21) Fluoranthene-d10	17.479	212	1549257	4.00 ppm	0.00
31) Benzo(a)pyrene-d12	22.084	264	1255270	4.00 ppm	0.00
System Monitoring Compounds					
3) 2-Fluorophenol	4.245	112	75227	0.97 ppm	0.00
Spiked Amount 50.000			Recovery	= 1.94%	
4) Phenol-d5	5.859	99	119465	0.95 ppm	0.00
Spiked Amount 50.000			Recovery	= 1.90%	
7) Nitrobenzene-d5	7.381	82	94807	0.91 ppm	0.00
Spiked Amount 50.000			Recovery	= 1.82%	
15) 2-Fluorobiphenyl	10.939	172	241669	1.03 ppm	0.00
Spiked Amount 50.000			Recovery	= 2.06%	
20) 2,4,6-Tribromophenol	13.808	330	17978	0.77 ppm	0.00
Spiked Amount 50.000			Recovery	= 1.54%	
28) Terphenyl-d14	18.298	244	226072	1.01 ppm	0.00
Spiked Amount 50.000			Recovery	= 2.02%	
Target Compounds					Qvalue
2) 1,4-dioxane	2.035	88	2163	0.07 ppm #	58
5) Phenol	5.883	94	30333	0.23 ppm	98
6) bis(2-Chloroethyl)ether	5.968	93	4195	0.05 ppm	85
8) Nitrobenzene	7.419	77	4812	0.04 ppm	95
9) Naphthalene	8.775	128	16400	0.05 ppm	99
10) Hexachlorobutadiene	9.057	225	2540	0.05 ppm	96
11) 2-Methylnaphthalene	10.159	141	8199	0.05 ppm	97
12) 1-Methylnaphthalene	10.344	141	9380	0.05 ppm	96
13) Hexachlorocyclopentadiene	10.487	237	274	0.02 ppm	91
16) Acenaphthylene	11.913	152	14970	0.05 ppm	98
17) Acenaphthene	12.268	153	10038	0.05 ppm	96
18) 4,6-dinitro-2-methylph...	13.525	198	441	0.03 ppm	85
19) Fluorene	13.318	166	12060	0.05 ppm	100
22) Hexachlorobenzene	14.403	284	3145	0.05 ppm	94
23) Pentachlorophenol	14.867	266	1905	0.10 ppm	95
24) Phenanthrene	15.223	178	16670	0.05 ppm	100
25) Anthracene	15.315	178	14493	0.04 ppm	99
26) Fluoranthene	17.510	202	21315	0.05 ppm	98
27) Pyrene	17.896	202	17846	0.05 ppm	98
29) Benzo[a]anthracene	19.998	228	15261	0.04 ppm	99
30) Chrysene	20.060	228	16857	0.05 ppm	99
32) Benzo[b]fluoranthene	21.666	252	17407	0.05 ppm	99
33) Benzo[k]fluoranthene	21.713	252	15422	0.04 ppm	98
34) Benzo[a]pyrene	22.115	252	16345	0.05 ppm	98
35) Indeno[1,2,3-cd]pyrene	23.562	276	18972	0.05 ppm	99
36) Dibenz[a,h]anthracene	23.600	278	15896	0.05 ppm	100
37) Benzo[g,h,i]perylene	23.920	276	17134	0.05 ppm	100

SGS ACCUTEST JC21347

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2887\
Data File : 3m61391a.D
Acq On : 17 May 2016 2:36 pm
Operator : linseyk
Sample : ic2887-.05
Misc : op99506a,e3m2887
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 17 15:05:34 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2887SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Tue May 17 14:52:15 2016
Response via : Initial Calibration

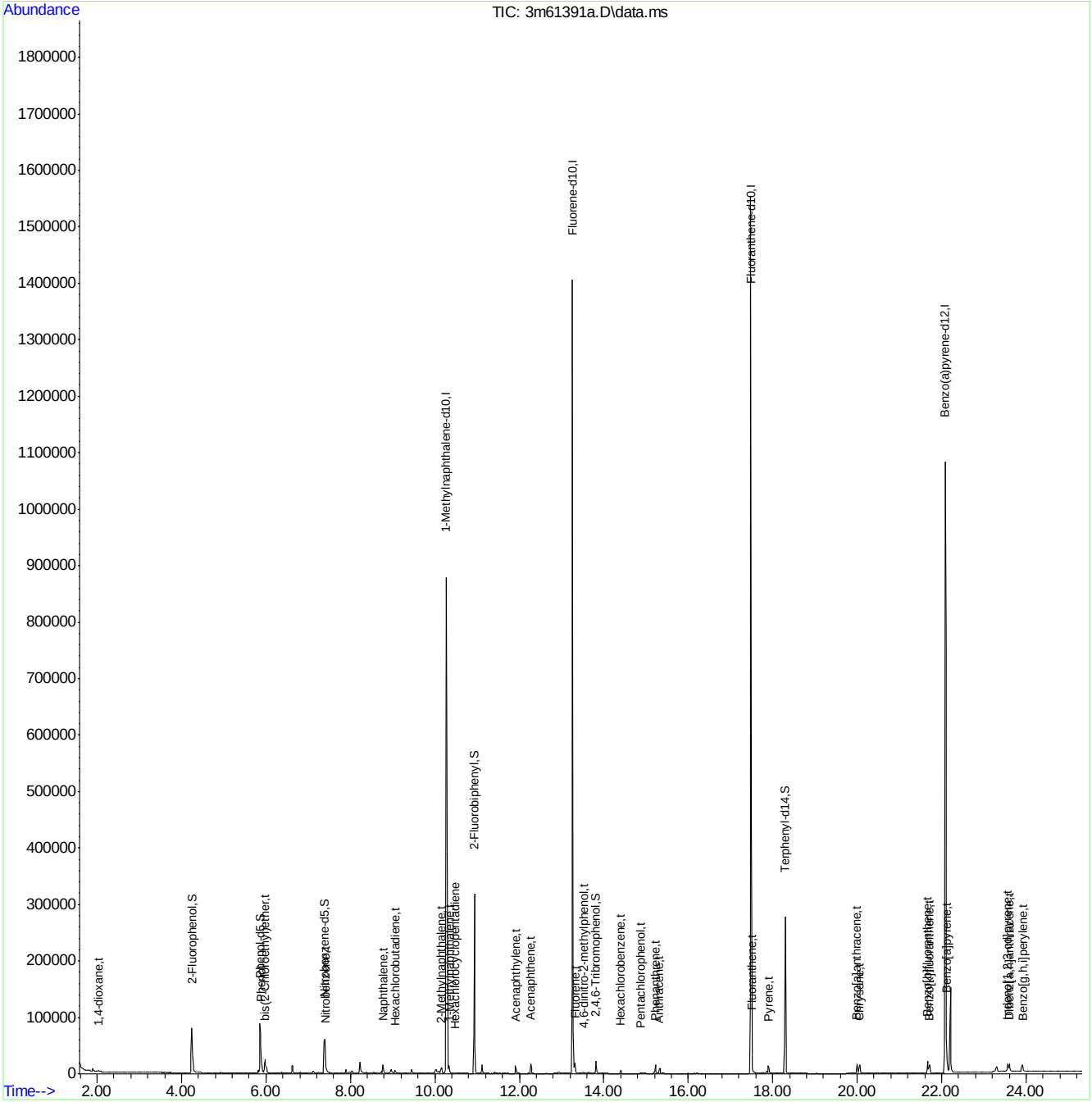
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2887\
Data File : 3m61391a.D
Acq On : 17 May 2016 2:36 pm
Operator : linseyk
Sample : ic2887-.05
Misc : op99506a,e3m2887
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 17 15:05:34 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2887SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Tue May 17 14:52:15 2016
Response via : Initial Calibration



SGS ACCUTEST JC21347

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2887\
Data File : 3m61393.D
Acq On : 17 May 2016 3:41 pm
Operator : linseyk
Sample : ic2887-.01
Misc : op99506a,e3m2887
ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 17 16:12:22 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2887SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Tue May 17 15:06:06 2016
Response via : Initial Calibration

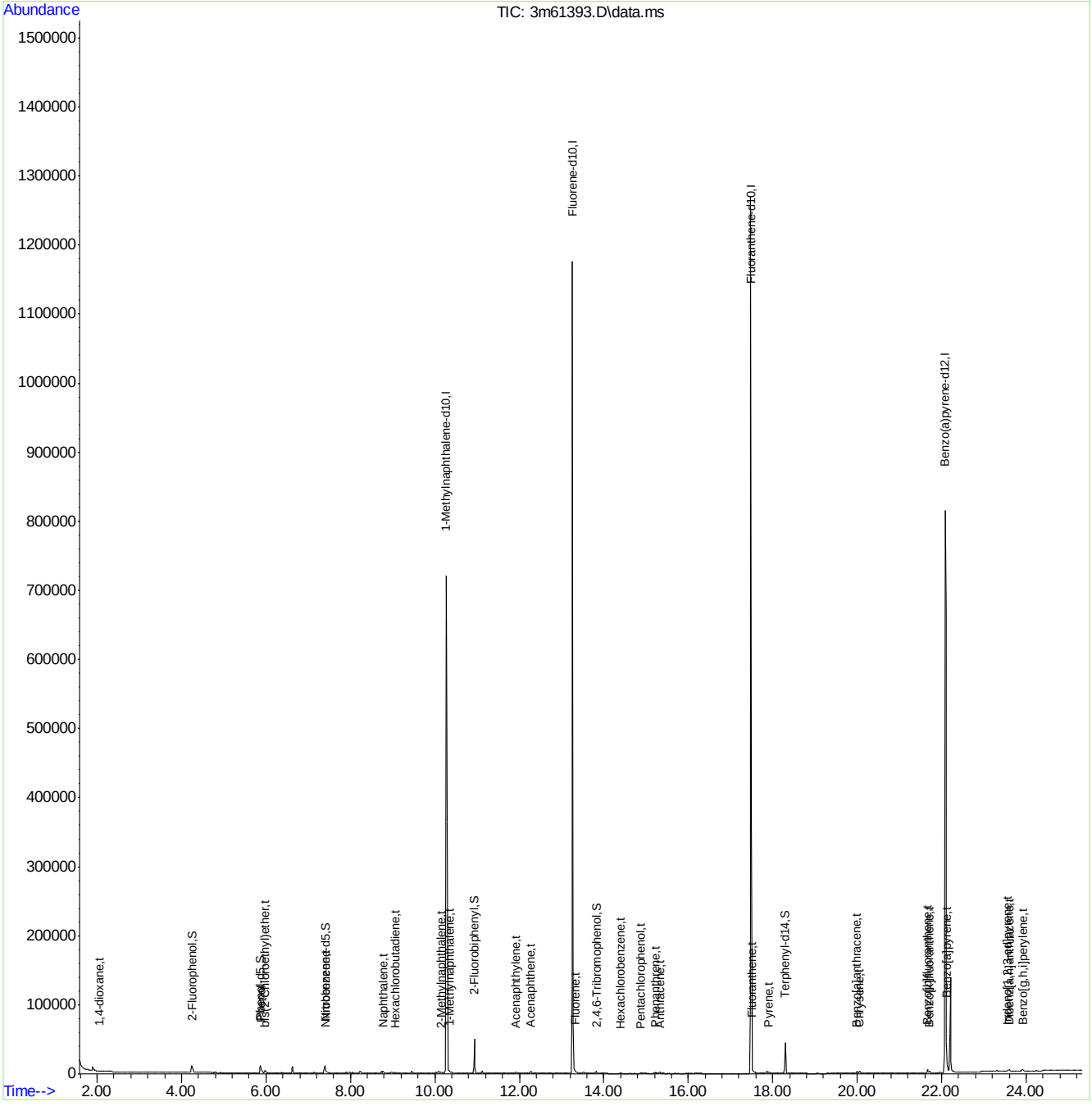
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1-Methylnaphthalene-d10	10.262	150	504913	4.00 ppm	0.00
14) Fluorene-d10	13.262	176	819520	4.00 ppm	0.00
21) Fluoranthene-d10	17.479	212	1273468	4.00 ppm	0.00
31) Benzo(a)pyrene-d12	22.084	264	1015573	4.00 ppm	0.00
System Monitoring Compounds					
3) 2-Fluorophenol	4.245	112	11477	0.17 ppm	0.00
Spiked Amount 50.000			Recovery	= 0.34%	
4) Phenol-d5	5.871	99	17852	0.17 ppm	0.01
Spiked Amount 50.000			Recovery	= 0.34%	
7) Nitrobenzene-d5	7.400	82	13608	0.16 ppm	0.02
Spiked Amount 50.000			Recovery	= 0.32%	
15) 2-Fluorobiphenyl	10.939	172	38486	0.19 ppm	0.00
Spiked Amount 50.000			Recovery	= 0.38%	
20) 2,4,6-Tribromophenol	13.827	330	2645	0.13 ppm	0.02
Spiked Amount 50.000			Recovery	= 0.26%	
28) Terphenyl-d14	18.298	244	36463	0.20 ppm	0.00
Spiked Amount 50.000			Recovery	= 0.40%	
Target Compounds					Qvalue
2) 1,4-dioxane	2.050	88	681	0.02 ppm	80
5) Phenol	5.883	94	4393	0.04 ppm #	75
6) bis(2-Chloroethyl)ether	5.968	93	633	0.01 ppm	95
8) Nitrobenzene	7.419	77	803	0.01 ppm	93
9) Naphthalene	8.775	128	2725	0.01 ppm	98
10) Hexachlorobutadiene	9.057	225	428	0.01 ppm	95
11) 2-Methylnaphthalene	10.159	141	1732	0.01 ppm	93
12) 1-Methylnaphthalene	10.344	141	2280	0.01 ppm	100
16) Acenaphthylene	11.913	152	2353	0.01 ppm	98
17) Acenaphthene	12.268	153	1648	0.01 ppm	96
19) Fluorene	13.318	166	1944	0.01 ppm	99
22) Hexachlorobenzene	14.403	284	551	0.01 ppm	95
23) Pentachlorophenol	14.883	266	197	0.01 ppm	89
24) Phenanthrene	15.223	178	2797	0.01 ppm	97
25) Anthracene	15.331	178	2324	0.01 ppm	90
26) Fluoranthene	17.510	202	4664	0.01 ppm	98
27) Pyrene	17.896	202	2952	0.01 ppm	99
29) Benzo[a]anthracene	19.998	228	2693	0.01 ppm	99
30) Chrysene	20.060	228	2630	0.01 ppm	97
32) Benzo[b]fluoranthene	21.666	252	3231	0.01 ppm	83
33) Benzo[k]fluoranthene	21.713	252	2619	0.01 ppm	93
34) Benzo[a]pyrene	22.115	252	2601m	0.01 ppm	
35) Indeno[1,2,3-cd]pyrene	23.562	276	2837	0.01 ppm	97
36) Dibenz[a,h]anthracene	23.600	278	2289	0.01 ppm	100
37) Benzo[g,h,i]perylene	23.920	276	2661	0.01 ppm	98

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2887\
Data File : 3m61393.D
Acq On : 17 May 2016 3:41 pm
Operator : linseyk
Sample : ic2887-.01
Misc : op99506a,e3m2887
ALS Vial : 8 Sample Multiplier: 1

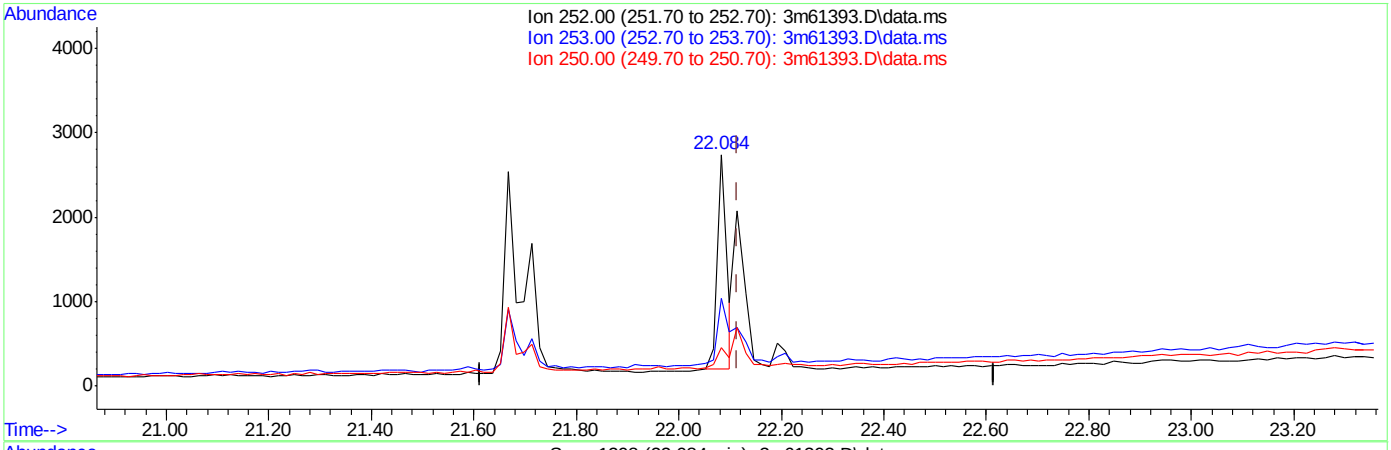
Quant Time: May 17 16:12:22 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2887SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Tue May 17 15:06:06 2016
Response via : Initial Calibration

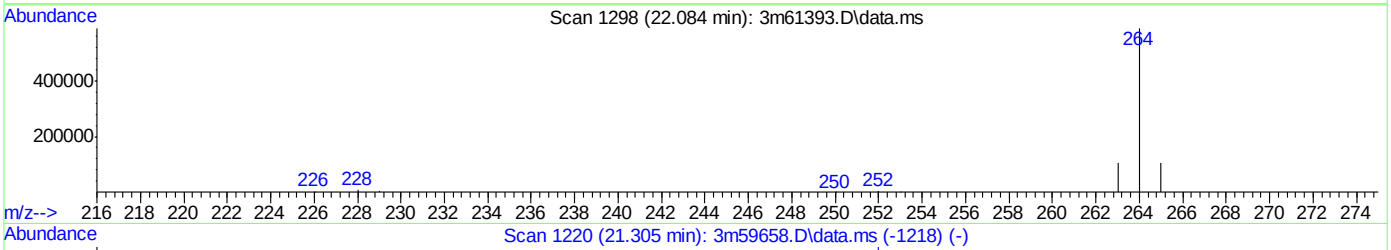


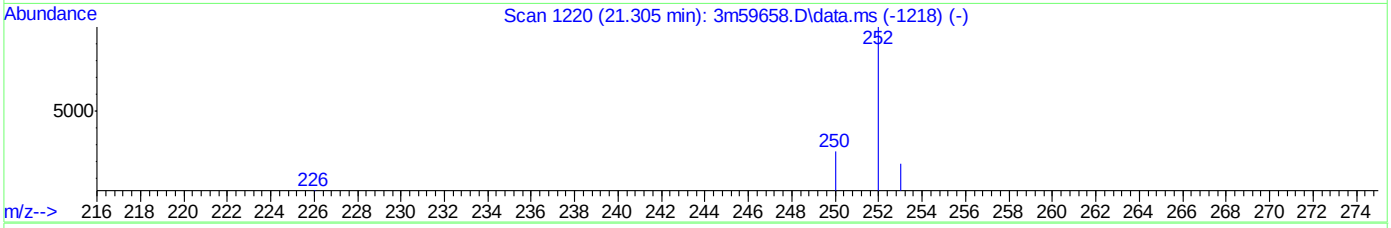
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E3M2887\
Data File : 3m61393.D
Acq On : 17 May 2016 3:41 pm
Operator : linseyk
Sample : ic2887-.01
Misc : op99506a,e3m2887
ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 17 16:11:45 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2887SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Tue May 17 15:06:06 2016
Response via : Initial Calibration







TIC: 3m61393.D\data.ms

(34) Benzo[a]pyrene (t)

22.084min (-0.031) 0.01ppm

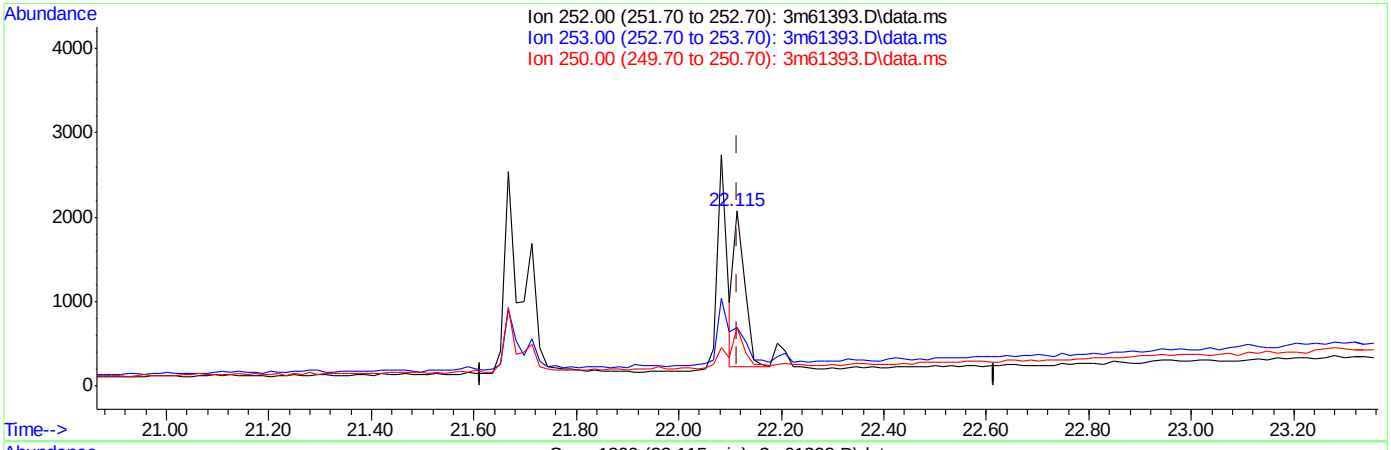
response 3287

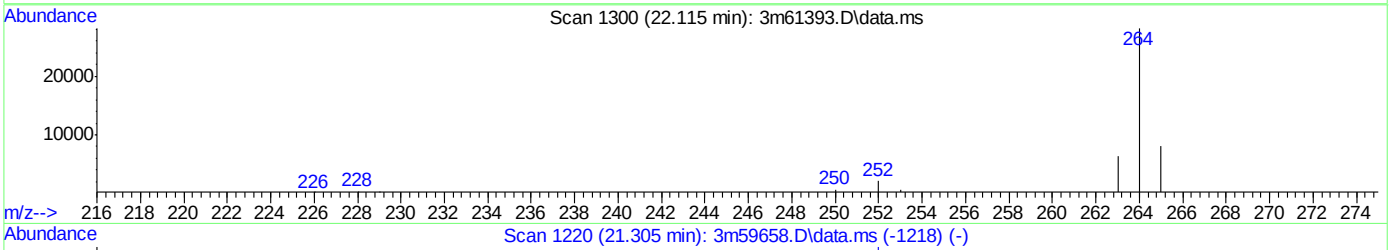
Ion	Exp%	Act%
252.00	100	100
253.00	18.60	27.33
250.00	25.50	8.40
0.00	0.00	0.00

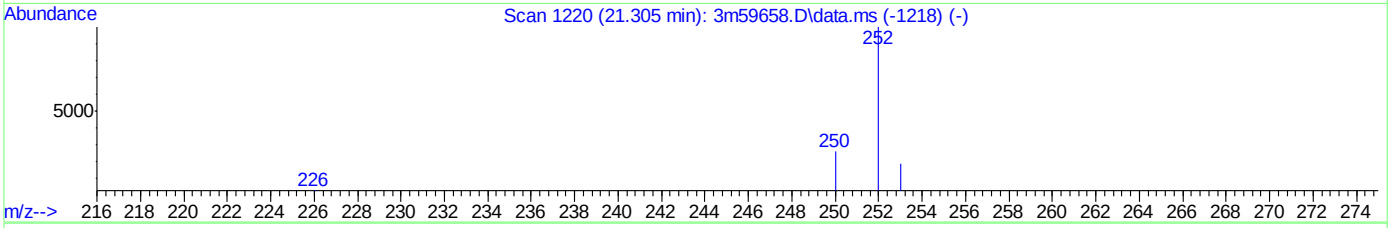
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E3M2887\
Data File : 3m61393.D
Acq On : 17 May 2016 3:41 pm
Operator : linseyk
Sample : ic2887-.01
Misc : op99506a,e3m2887
ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 17 16:11:45 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2887SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Tue May 17 15:06:06 2016
Response via : Initial Calibration







TIC: 3m61393.D\data.ms

(34) Benzo[a]pyrene (t)

22.115min (-0.000) 0.01ppm m

response 2601

Ion	Exp%	Act%
252.00	100	100
253.00	18.60	33.46
250.00	25.50	33.56
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2887\
Data File : 3m61394.D
Acq On : 17 May 2016 4:13 pm
Operator : linseyk
Sample : ic2887-5
Misc : op99506a,e3m2887
ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 17 17:10:24 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2887SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Tue May 17 16:38:41 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	10.262	150	511536	4.00	ppm	0.00
14) Fluorene-d10	13.262	176	943915	4.00	ppm	0.00
21) Fluoranthene-d10	17.479	212	1327470	4.00	ppm	0.00
31) Benzo(a)pyrene-d12	22.084	264	1082709	4.00	ppm	0.00
System Monitoring Compounds						
3) 2-Fluorophenol	4.245	112	6265549	94.91	ppm	0.00
Spiked Amount 50.000			Recovery	=	189.82%	
4) Phenol-d5	5.871	99	9999975	96.77	ppm	0.00
Spiked Amount 50.000			Recovery	=	193.54%	
7) Nitrobenzene-d5	7.400	82	8227170	94.58	ppm	0.00
Spiked Amount 50.000			Recovery	=	189.16%	
15) 2-Fluorobiphenyl	10.955	172	14254553	62.03	ppm	0.00
Spiked Amount 50.000			Recovery	=	124.06%	
20) 2,4,6-Tribromophenol	13.827	330	2350578	101.72	ppm	0.00
Spiked Amount 50.000			Recovery	=	203.44%	
28) Terphenyl-d14	18.314	244	14135087	77.86	ppm	0.00
Spiked Amount 50.000			Recovery	=	155.72%	
Target Compounds						Qvalue
2) 1,4-dioxane	2.035	88	120459	3.33	ppm	95
5) Phenol	5.883	94	2623407	23.84	ppm #	70
6) bis(2-Chloroethyl)ether	5.980	93	403057	5.28	ppm #	52
8) Nitrobenzene	7.438	77	423629	4.62	ppm #	12
9) Naphthalene	8.775	128	1412362	4.94	ppm	100
10) Hexachlorobutadiene	9.057	225	220282	4.90	ppm	99
11) 2-Methylnaphthalene	10.159	141	735664	4.86	ppm	96
12) 1-Methylnaphthalene	10.344	141	816822	4.63	ppm	98
13) Hexachlorocyclopentadiene	10.487	237	381411	21.67	ppm	100
16) Acenaphthylene	11.913	152	1504834	5.00	ppm	99
17) Acenaphthene	12.268	153	930113	4.70	ppm	100
18) 4,6-dinitro-2-methylph...	13.507	198	781771	44.17	ppm #	55
19) Fluorene	13.318	166	1158718	4.81	ppm	98
22) Hexachlorobenzene	14.403	284	302040	5.28	ppm	99
23) Pentachlorophenol	14.852	266	814602	45.07	ppm	98
24) Phenanthrene	15.223	178	1607944	5.34	ppm	99
25) Anthracene	15.315	178	1610273	5.80	ppm	99
26) Fluoranthene	17.510	202	1795403	4.71	ppm	99
27) Pyrene	17.896	202	1835416	5.52	ppm	98
29) Benzo[a]anthracene	19.998	228	1662849	5.64	ppm	100
30) Chrysene	20.060	228	1663715	5.37	ppm	99
32) Benzo[b]fluoranthene	21.666	252	1707636	5.27	ppm	98
33) Benzo[k]fluoranthene	21.713	252	1679688	5.65	ppm	99
34) Benzo[a]pyrene	22.114	252	1578687	5.32	ppm	100
35) Indeno[1,2,3-cd]pyrene	23.562	276	1880359	5.42	ppm	97
36) Dibenz[a,h]anthracene	23.600	278	1447994	5.22	ppm	100
37) Benzo[g,h,i]perylene	23.920	276	1577763	5.26	ppm	100

SGS ACCUTEST JC21347

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2887\
Data File : 3m61394.D
Acq On : 17 May 2016 4:13 pm
Operator : linseyk
Sample : ic2887-5
Misc : op99506a,e3m2887
ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 17 17:10:24 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2887SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Tue May 17 16:38:41 2016
Response via : Initial Calibration

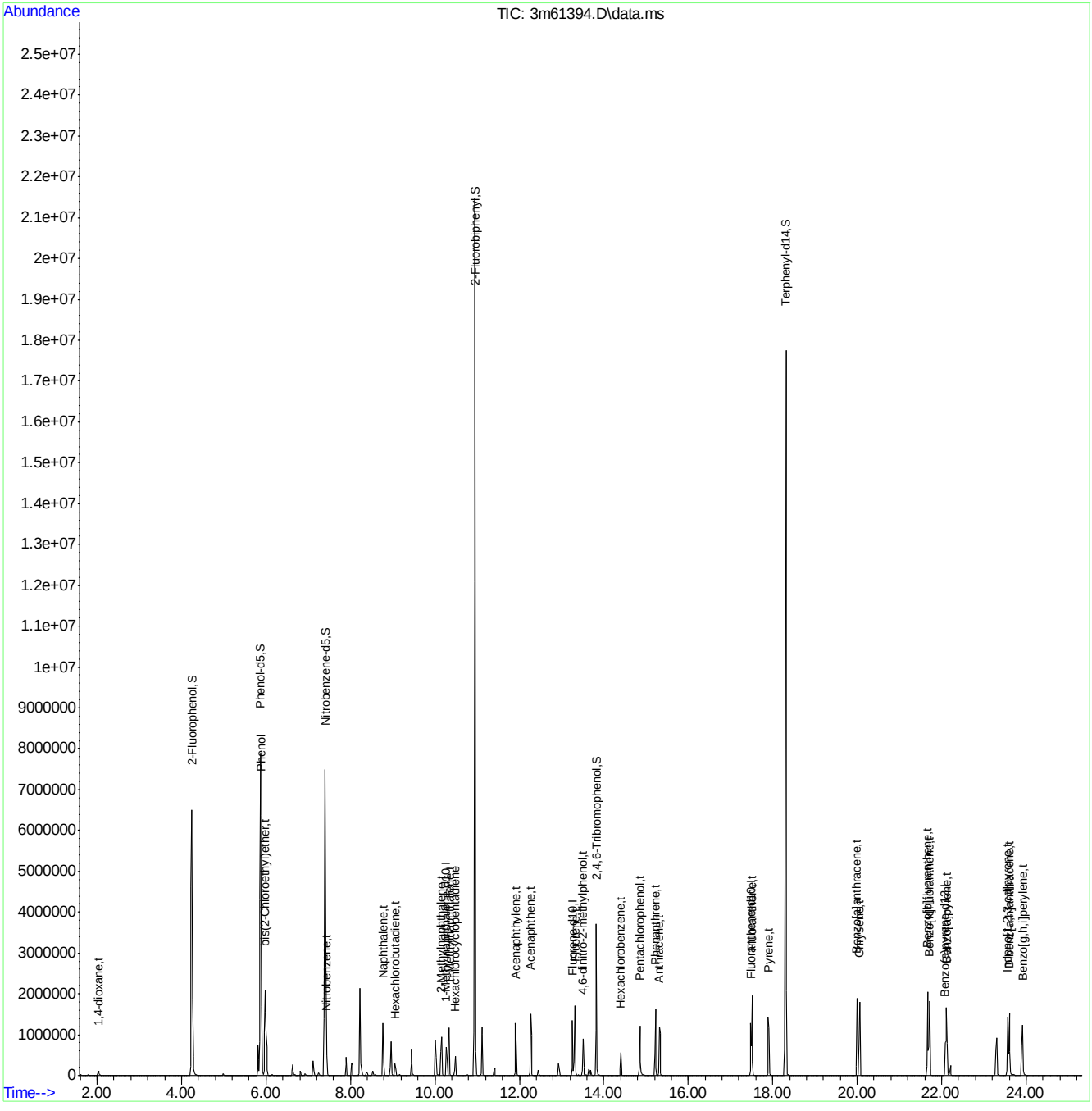
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2887\
Data File : 3m61394.D
Acq On : 17 May 2016 4:13 pm
Operator : linseyk
Sample : ic2887-5
Misc : op99506a,e3m2887
ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 17 17:10:24 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2887SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Tue May 17 16:38:41 2016
Response via : Initial Calibration



SGS ACCUTEST JC21347

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2887\
Data File : 3m61395.D
Acq On : 17 May 2016 4:46 pm
Operator : linseyk
Sample : ic2887-2.5
Misc : op99506a,e3m2887
ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 18 08:19:29 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2887SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Wed May 18 08:07:34 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	10.262	150	521746	4.00	ppm	0.00
14) Fluorene-d10	13.262	176	905686	4.00	ppm	0.00
21) Fluoranthene-d10	17.479	212	1354940	4.00	ppm	0.00
31) Benzo(a)pyrene-d12	22.084	264	1090621	4.00	ppm	0.00
System Monitoring Compounds						
3) 2-Fluorophenol	4.245	112	3215370	48.19	ppm	0.00
Spiked Amount 50.000			Recovery = 96.38%			
4) Phenol-d5	5.859	99	5194594	48.36	ppm	-0.01
Spiked Amount 50.000			Recovery = 96.72%			
7) Nitrobenzene-d5	7.400	82	5124781	56.53	ppm	0.00
Spiked Amount 50.000			Recovery = 113.06%			
15) 2-Fluorobiphenyl	10.939	172	9805130	43.78	ppm	0.00
Spiked Amount 50.000			Recovery = 87.56%			
20) 2,4,6-Tribromophenol	13.827	330	1139022	51.78	ppm	0.00
Spiked Amount 50.000			Recovery = 103.56%			
28) Terphenyl-d14	18.314	244	9613871	50.82	ppm	0.02
Spiked Amount 50.000			Recovery = 101.64%			
Target Compounds						Qvalue
2) 1,4-dioxane	2.035	88	64032	2.16	ppm	98
5) Phenol	5.883	94	1384259	12.30	ppm	92
6) bis(2-Chloroethyl)ether	5.968	93	196747	2.70	ppm	88
8) Nitrobenzene	7.419	77	248348	2.66	ppm	94
9) Naphthalene	8.775	128	723202	2.46	ppm	100
10) Hexachlorobutadiene	9.057	225	109982	2.39	ppm	99
11) 2-Methylnaphthalene	10.159	141	365534	2.37	ppm	97
12) 1-Methylnaphthalene	10.344	141	394856	2.24	ppm	95
13) Hexachlorocyclopentadiene	10.487	237	156024	5.01	ppm	98
16) Acenaphthylene	11.913	152	730026	2.51	ppm	99
17) Acenaphthene	12.269	153	463465	2.41	ppm	98
18) 4,6-dinitro-2-methylph...	13.507	198	371702	12.93	ppm	92
19) Fluorene	13.318	166	562503	2.40	ppm	99
22) Hexachlorobenzene	14.403	284	151194	2.52	ppm	98
23) Pentachlorophenol	14.852	266	363206	12.65	ppm	96
24) Phenanthrene	15.223	178	802041	2.54	ppm	100
25) Anthracene	15.316	178	792720	2.76	ppm	100
26) Fluoranthene	17.510	202	908701	2.36	ppm	99
27) Pyrene	17.897	202	898533	2.60	ppm	99
29) Benzo[a]anthracene	19.998	228	817299	2.67	ppm	100
30) Chrysene	20.060	228	829273	2.63	ppm	99
32) Benzo[b]fluoranthene	21.667	252	865021	2.56	ppm	100
33) Benzo[k]fluoranthene	21.713	252	817425	2.76	ppm	100
34) Benzo[a]pyrene	22.115	252	792856	2.61	ppm	99
35) Indeno[1,2,3-cd]pyrene	23.562	276	923237	2.57	ppm	100
36) Dibenz[a,h]anthracene	23.600	278	713402	2.51	ppm	100
37) Benzo[g,h,i]perylene	23.920	276	781865	2.54	ppm	100

SGS ACCUTEST JC21347

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2887\
Data File : 3m61395.D
Acq On : 17 May 2016 4:46 pm
Operator : linseyk
Sample : ic2887-2.5
Misc : op99506a,e3m2887
ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 18 08:19:29 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2887SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Wed May 18 08:07:34 2016
Response via : Initial Calibration

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

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

7.6.33

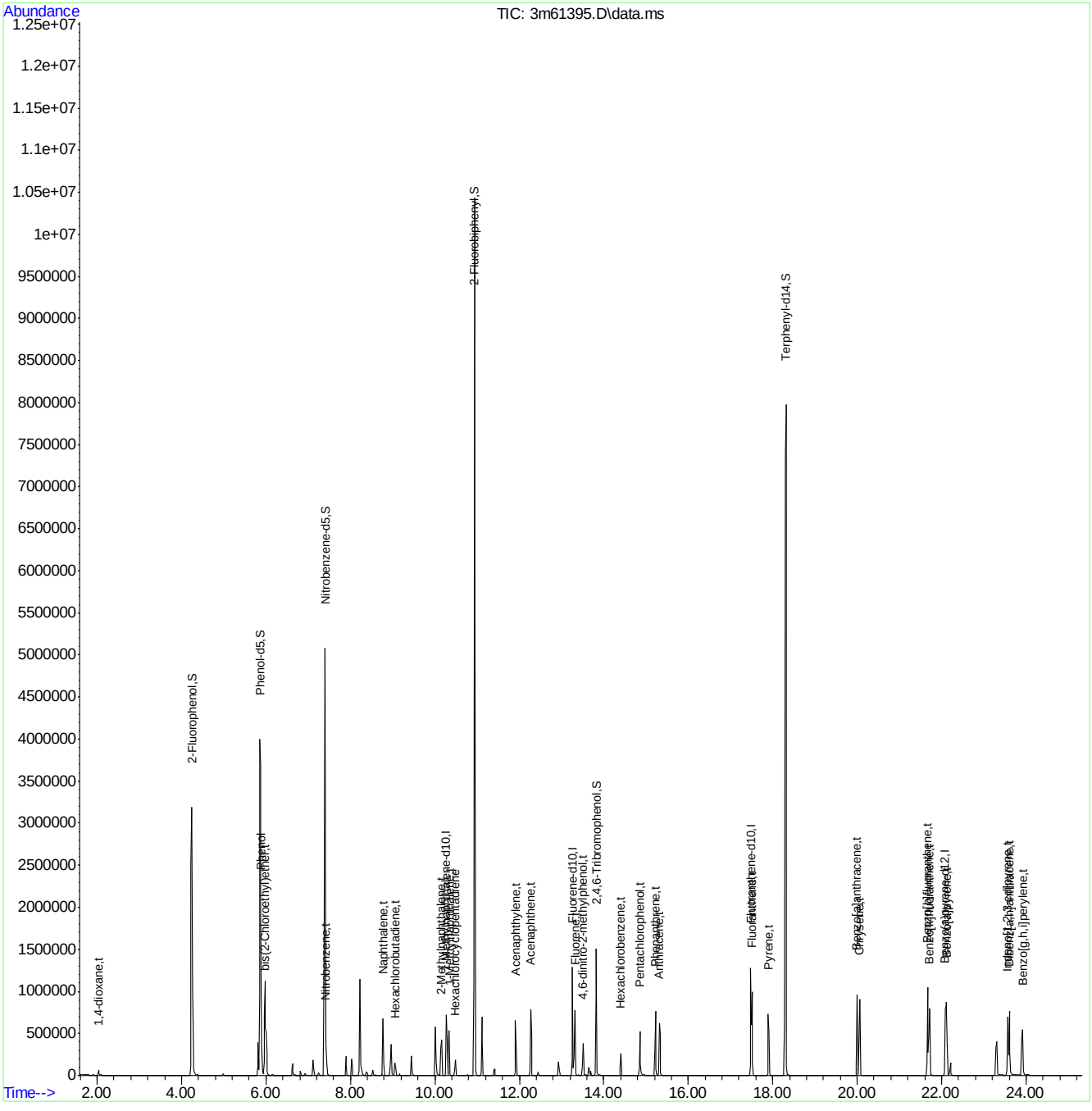
7

SGS ACCUTEST JC21347

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2887\
Data File : 3m61395.D
Acq On : 17 May 2016 4:46 pm
Operator : linseyk
Sample : ic2887-2.5
Misc : op99506a,e3m2887
ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 18 08:19:29 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2887SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Wed May 18 08:07:34 2016
Response via : Initial Calibration



SGS ACCUTEST JC21347

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2887\
Data File : 3m61389b.D
Acq On : 17 May 2016 5:18 pm
Operator : linseyk
Sample : ic2887-.2
Misc : op99506a,e3m2887
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 18 08:01:17 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2887SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Tue May 17 17:13:16 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1-Methylnaphthalene-d10	10.262	150	497772	4.00 ppm	0.00
14) Fluorene-d10	13.262	176	793484	4.00 ppm	0.00
21) Fluoranthene-d10	17.479	212	1240303	4.00 ppm	0.00
31) Benzo(a)pyrene-d12	22.084	264	999870	4.00 ppm	0.00
System Monitoring Compounds					
3) 2-Fluorophenol	4.245	112	252126	3.95 ppm	0.00
Spiked Amount 50.000			Recovery	= 7.90%	
4) Phenol-d5	5.859	99	411696	4.10 ppm	0.00
Spiked Amount 50.000			Recovery	= 8.20%	
7) Nitrobenzene-d5	7.381	82	337792	3.89 ppm	-0.02
Spiked Amount 50.000			Recovery	= 7.78%	
15) 2-Fluorobiphenyl	10.939	172	811462	4.28 ppm	0.00
Spiked Amount 50.000			Recovery	= 8.56%	
20) 2,4,6-Tribromophenol	13.808	330	71918	3.68 ppm	-0.02
Spiked Amount 50.000			Recovery	= 7.36%	
28) Terphenyl-d14	18.298	244	752276	4.41 ppm	-0.02
Spiked Amount 50.000			Recovery	= 8.82%	
Target Compounds					Qvalue
2) 1,4-dioxane	2.035	88	5727	0.17 ppm	100
5) Phenol	5.883	94	106195	0.99 ppm #	89
6) bis(2-Chloroethyl)ether	5.968	93	14800	0.23 ppm	76
8) Nitrobenzene	7.419	77	17724	0.20 ppm	93
9) Naphthalene	8.775	128	55482	0.20 ppm	99
10) Hexachlorobutadiene	9.057	225	8434	0.19 ppm	99
11) 2-Methylnaphthalene	10.159	141	26927	0.18 ppm	99
12) 1-Methylnaphthalene	10.344	141	31388	0.19 ppm	96
13) Hexachlorocyclopentadiene	10.487	237	3046	0.16 ppm	100
16) Acenaphthylene	11.913	152	50183	0.20 ppm	99
17) Acenaphthene	12.268	153	33424	0.20 ppm	98
18) 4,6-dinitro-2-methylph...	13.507	198	4378	0.26 ppm	75
19) Fluorene	13.318	166	41140	0.20 ppm	99
22) Hexachlorobenzene	14.403	284	10881	0.20 ppm	99
23) Pentachlorophenol	14.852	266	9975	0.54 ppm	93
24) Phenanthrene	15.223	178	57338	0.20 ppm	99
25) Anthracene	15.315	178	50560	0.19 ppm	99
26) Fluoranthene	17.510	202	67591	0.19 ppm	99
27) Pyrene	17.896	202	60651	0.19 ppm	99
29) Benzo[a]anthracene	19.998	228	51477	0.18 ppm	100
30) Chrysene	20.060	228	54974	0.19 ppm	99
32) Benzo[b]fluoranthene	21.666	252	57557	0.19 ppm	99
33) Benzo[k]fluoranthene	21.713	252	51792	0.19 ppm	99
34) Benzo[a]pyrene	22.114	252	53437	0.19 ppm	98
35) Indeno[1,2,3-cd]pyrene	23.562	276	65230	0.20 ppm	99
36) Dibenz[a,h]anthracene	23.600	278	52982	0.21 ppm	100
37) Benzo[g,h,i]perylene	23.920	276	53492	0.19 ppm	100

SGS ACCUTEST JC21347

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2887\
Data File : 3m61389b.D
Acq On : 17 May 2016 5:18 pm
Operator : linseyk
Sample : ic2887-.2
Misc : op99506a,e3m2887
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 18 08:01:17 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2887SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Tue May 17 17:13:16 2016
Response via : Initial Calibration

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

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

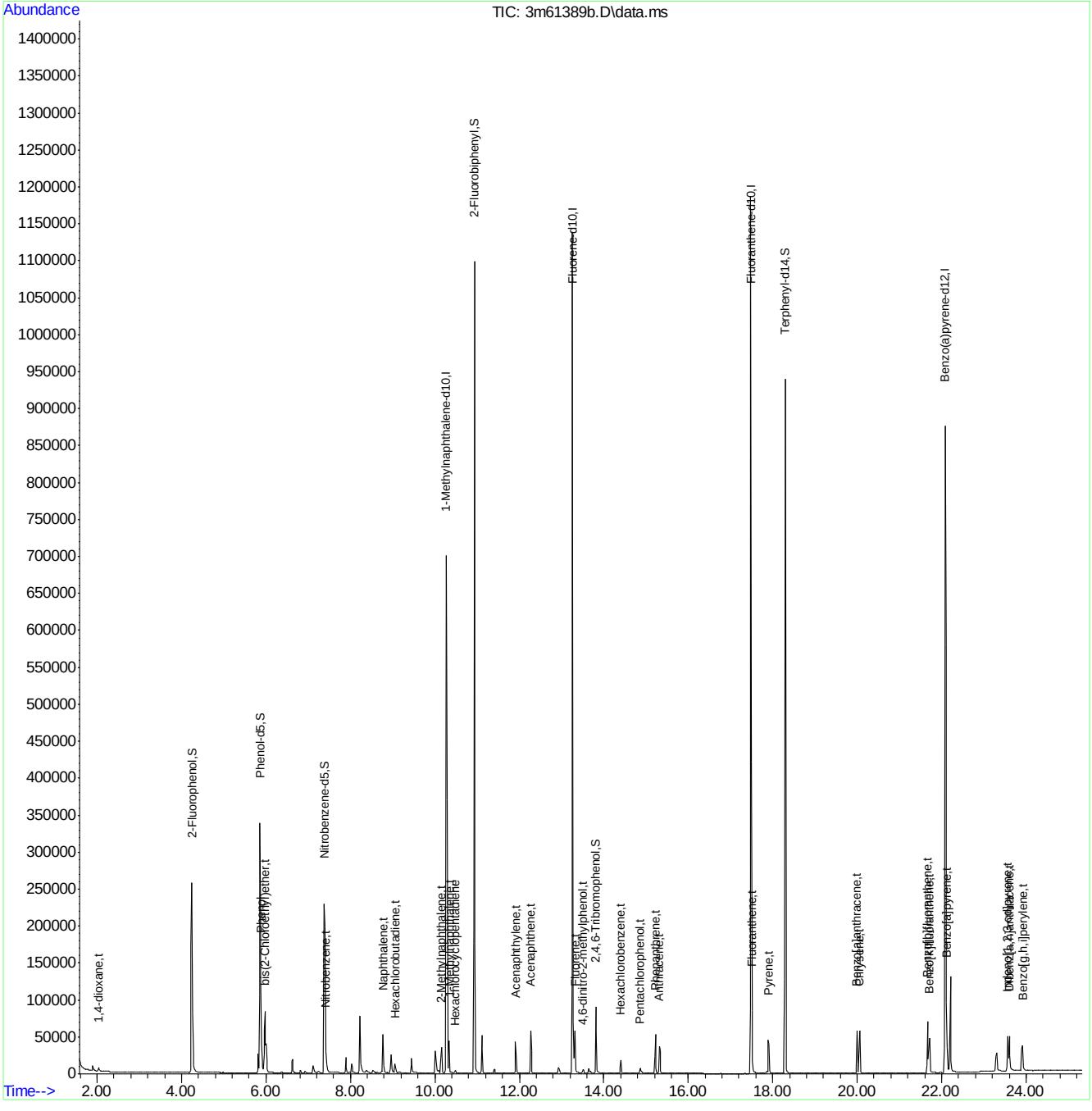
7.6.34

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2887\
Data File : 3m61389b.D
Acq On : 17 May 2016 5:18 pm
Operator : linseyk
Sample : ic2887-.2
Misc : op99506a,e3m2887
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 18 08:01:17 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2887SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Tue May 17 17:13:16 2016
Response via : Initial Calibration



SGS ACCUTEST JC21347

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2887\
Data File : 3m61392b.D
Acq On : 17 May 2016 6:08 pm
Operator : linseyk
Sample : ic2887-.02
Misc : op99506a,e3m2887
ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 18 08:02:12 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2887SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Wed May 18 08:01:49 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1-Methylnaphthalene-d10	10.262	150	425322	4.00 ppm	0.00
14) Fluorene-d10	13.262	176	662899	4.00 ppm	0.00
21) Fluoranthene-d10	17.479	212	1045151	4.00 ppm	0.00
31) Benzo(a)pyrene-d12	22.099	264	867889	4.00 ppm	0.02
System Monitoring Compounds					
3) 2-Fluorophenol	4.245	112	31821	0.59 ppm	0.00
Spiked Amount 50.000			Recovery	= 1.18%	
4) Phenol-d5	5.859	99	51288	0.60 ppm	0.00
Spiked Amount 50.000			Recovery	= 1.20%	
7) Nitrobenzene-d5	7.381	82	27946	0.38 ppm	0.00
Spiked Amount 50.000			Recovery	= 0.76%	
15) 2-Fluorobiphenyl	10.939	172	76602	0.48 ppm	0.00
Spiked Amount 50.000			Recovery	= 0.96%	
20) 2,4,6-Tribromophenol	13.827	330	7646	0.47 ppm	0.02
Spiked Amount 50.000			Recovery	= 0.94%	
28) Terphenyl-d14	18.298	244	77588	0.53 ppm	0.00
Spiked Amount 50.000			Recovery	= 1.06%	
Target Compounds					Qvalue
2) 1,4-dioxane	2.035	88	904	0.03 ppm	92
5) Phenol	5.883	94	9543	0.10 ppm #	68
6) bis(2-Chloroethyl)ether	5.968	93	1672	0.03 ppm #	62
8) Nitrobenzene	7.419	77	1435	0.02 ppm	94
9) Naphthalene	8.775	128	5230	0.02 ppm	98
10) Hexachlorobutadiene	9.057	225	819	0.02 ppm	99
11) 2-Methylnaphthalene	10.159	141	2818	0.02 ppm	92
12) 1-Methylnaphthalene	10.344	141	3001	0.02 ppm	100
16) Acenaphthylene	11.913	152	4439	0.02 ppm	98
17) Acenaphthene	12.269	153	3120	0.02 ppm	99
19) Fluorene	13.318	166	3839	0.02 ppm	99
22) Hexachlorobenzene	14.403	284	1073	0.02 ppm	96
23) Pentachlorophenol	14.867	266	583	0.04 ppm	91
24) Phenanthrene	15.223	178	5629	0.02 ppm	99
25) Anthracene	15.331	178	4540	0.02 ppm	90
26) Fluoranthene	17.510	202	7847	0.03 ppm	100
27) Pyrene	17.912	202	5906	0.02 ppm	85
29) Benzo[a]anthracene	19.998	228	5283	0.02 ppm	100
30) Chrysene	20.060	228	5804	0.02 ppm	97
32) Benzo[b]fluoranthene	21.667	252	6553	0.03 ppm	96
33) Benzo[k]fluoranthene	21.713	252	4149	0.02 ppm	97
34) Benzo[a]pyrene	22.115	252	8248	0.03 ppm	97
35) Indeno[1,2,3-cd]pyrene	23.562	276	6459	0.02 ppm	96
36) Dibenz[a,h]anthracene	23.600	278	4857	0.02 ppm	100
37) Benzo[g,h,i]perylene	23.920	276	5588	0.02 ppm	99

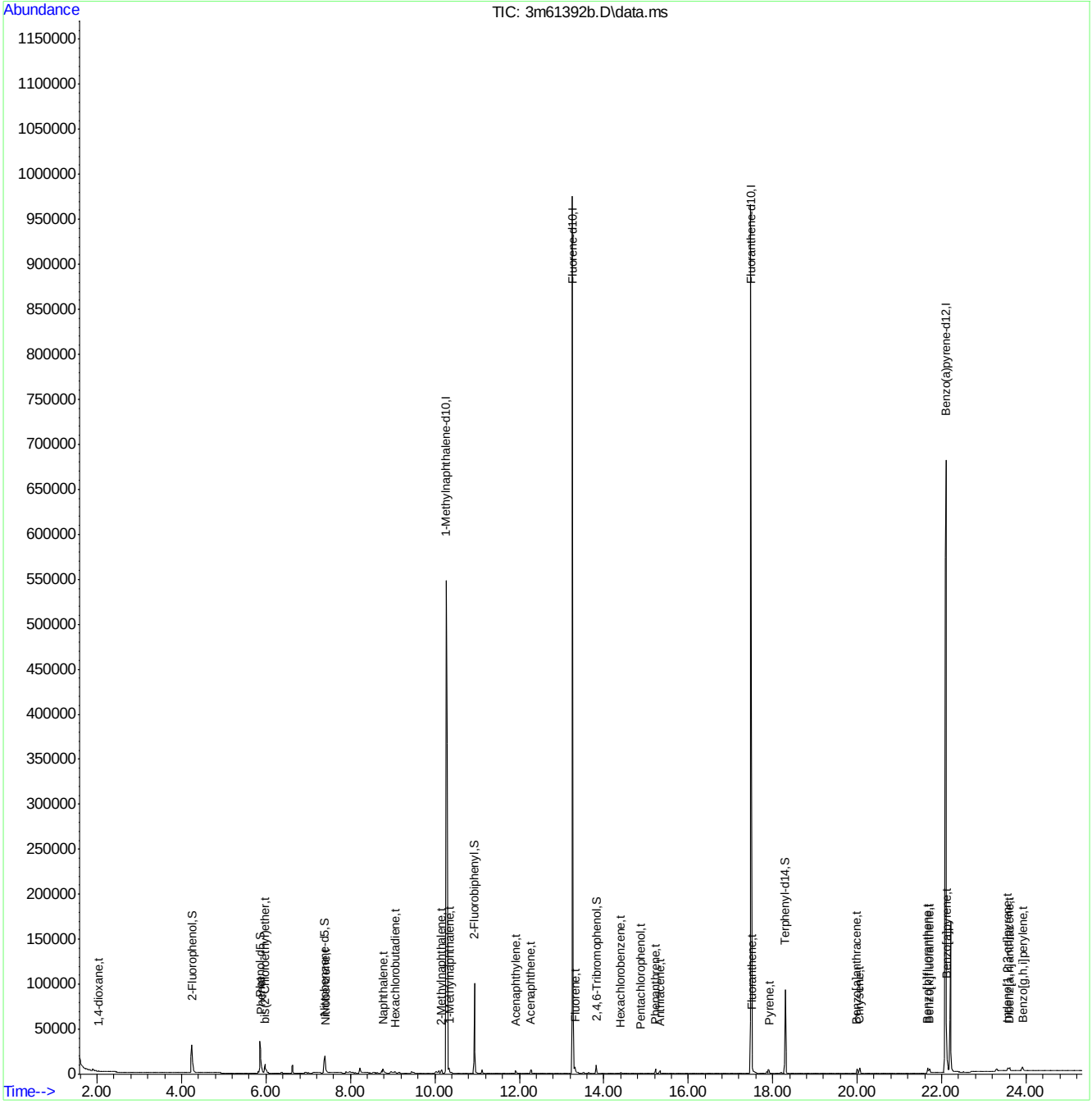
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC21347

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2887\
Data File : 3m61392b.D
Acq On : 17 May 2016 6:08 pm
Operator : linseyk
Sample : ic2887-.02
Misc : op99506a,e3m2887
ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 18 08:02:12 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2887SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Wed May 18 08:01:49 2016
Response via : Initial Calibration



SGS ACCUTEST JC21347

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2887\
Data File : 3m61397.D
Acq On : 17 May 2016 7:13 pm
Operator : linseyk
Sample : icv2887-1
Misc : op99506a,e3m2887
ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 18 08:22:32 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2887SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Wed May 18 08:07:34 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1-Methylnaphthalene-d10	10.262	150	496174	4.00 ppm	0.00
14) Fluorene-d10	13.262	176	782333	4.00 ppm	0.00
21) Fluoranthene-d10	17.479	212	1127034	4.00 ppm	0.00
31) Benzo(a)pyrene-d12	22.084	264	842113	4.00 ppm	0.00
System Monitoring Compounds					
3) 2-Fluorophenol	0.000	112	0d	0.00 ppm	
Spiked Amount 50.000			Recovery	= 0.00%	
4) Phenol-d5	0.000	99	0d	0.00 ppm	
Spiked Amount 50.000			Recovery	= 0.00%	
7) Nitrobenzene-d5	0.000	82	0d	0.00 ppm	
Spiked Amount 50.000			Recovery	= 0.00%	
15) 2-Fluorobiphenyl	0.000	172	0d	0.00 ppm	
Spiked Amount 50.000			Recovery	= 0.00%	
20) 2,4,6-Tribromophenol	0.000	330	0d	0.00 ppm	
Spiked Amount 50.000			Recovery	= 0.00%	
28) Terphenyl-d14	0.000	244	0d	0.00 ppm	
Spiked Amount 50.000			Recovery	= 0.00%	
Target Compounds					Qvalue
6) bis(2-Chloroethyl)ether	5.968	93	88313	1.15 ppm	90
8) Nitrobenzene	7.419	77	94056	1.06 ppm	95
9) Naphthalene	8.775	128	313132	1.12 ppm	99
10) Hexachlorobutadiene	9.057	225	46515	1.06 ppm	98
11) 2-Methylnaphthalene	10.159	141	150728	1.03 ppm	97
16) Acenaphthylene	11.913	152	283705	1.13 ppm	99
17) Acenaphthene	12.269	153	196361	1.18 ppm	100
19) Fluorene	13.318	166	226456	1.12 ppm	100
22) Hexachlorobenzene	14.403	284	56666	1.14 ppm	97
24) Phenanthrene	15.223	178	308424	1.17 ppm	99
25) Anthracene	15.316	178	273901	1.15 ppm	100
26) Fluoranthene	17.510	202	355769	1.11 ppm	99
27) Pyrene	17.897	202	337021	1.17 ppm	99
29) Benzo[a]anthracene	19.998	228	280240	1.10 ppm	98
30) Chrysene	20.060	228	289792	1.10 ppm	100
32) Benzo[b]fluoranthene	21.667	252	264028	1.01 ppm	98
33) Benzo[k]fluoranthene	21.713	252	269228	1.18 ppm	99
34) Benzo[a]pyrene	22.115	252	264564	1.13 ppm	99
35) Indeno[1,2,3-cd]pyrene	23.562	276	303278	1.09 ppm	99
36) Dibenz[a,h]anthracene	23.600	278	243498	1.11 ppm	100
37) Benzo[g,h,i]perylene	23.920	276	249741	1.05 ppm	100

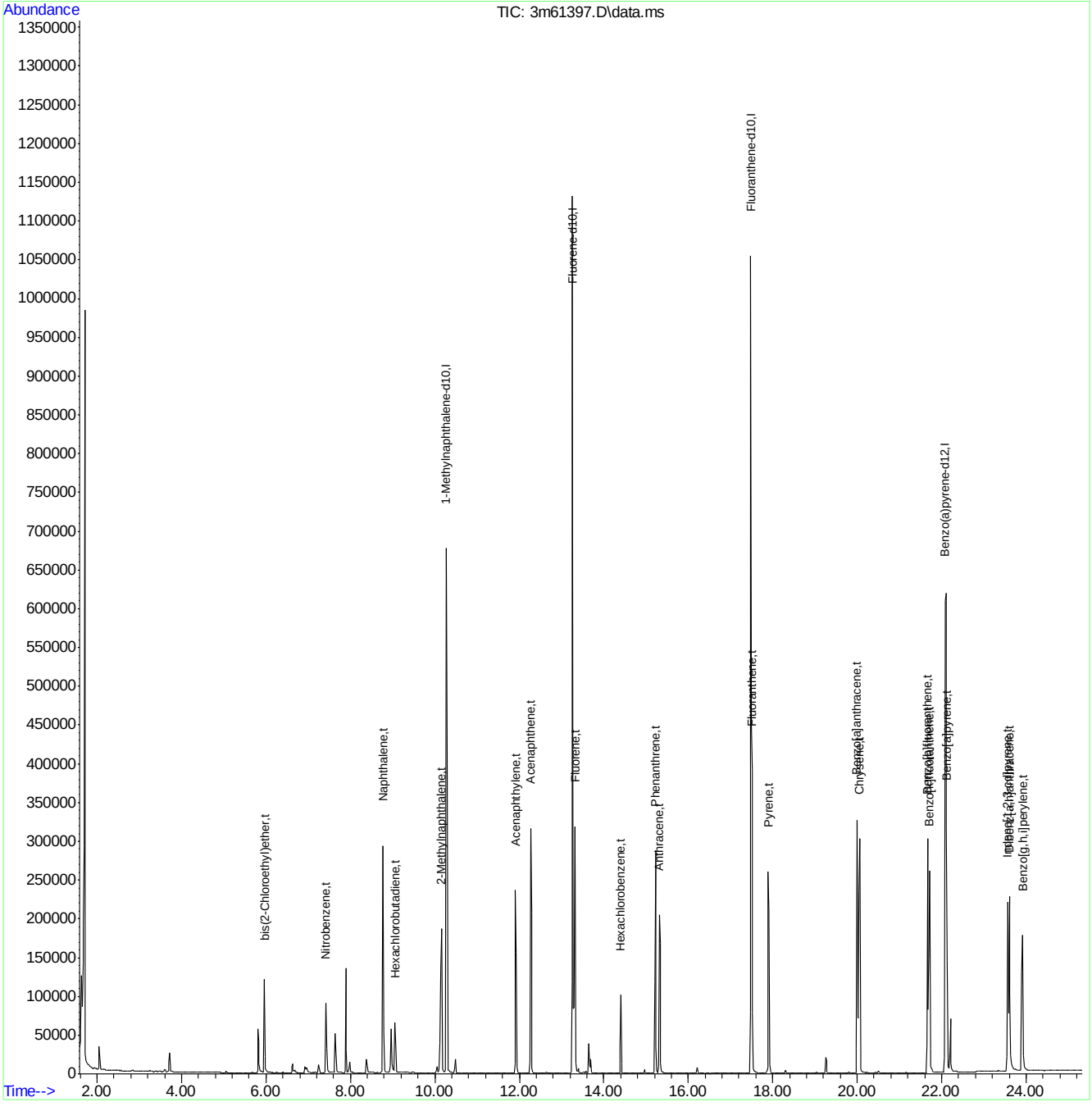
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC21347

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2887\
Data File : 3m61397.D
Acq On : 17 May 2016 7:13 pm
Operator : linseyk
Sample : icv2887-1
Misc : op99506a,e3m2887
ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 18 08:22:32 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2887SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Wed May 18 08:07:34 2016
Response via : Initial Calibration



SGS ACCUTEST JC21347

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2887\
Data File : 3m61398.D
Acq On : 17 May 2016 7:45 pm
Operator : linseyk
Sample : icv2887-1
Misc : op99506a,e3m2887
ALS Vial : 13 Sample Multiplier: 1

Quant Time: May 18 08:22:08 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2887SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Wed May 18 08:07:34 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1-Methylnaphthalene-d10	10.262	150	764566	4.00 ppm	0.00
14) Fluorene-d10	13.262	176	1155491	4.00 ppm	0.00
21) Fluoranthene-d10	17.479	212	1850821	4.00 ppm	0.00
31) Benzo(a)pyrene-d12	22.084	264	1478775	4.00 ppm	0.00
System Monitoring Compounds					
3) 2-Fluorophenol	0.000	112	0d	0.00 ppm	
Spiked Amount 50.000			Recovery	= 0.00%	
4) Phenol-d5	0.000	99	0d	0.00 ppm	
Spiked Amount 50.000			Recovery	= 0.00%	
7) Nitrobenzene-d5	0.000	82	0d	0.00 ppm	
Spiked Amount 50.000			Recovery	= 0.00%	
15) 2-Fluorobiphenyl	0.000	172	0d	0.00 ppm	
Spiked Amount 50.000			Recovery	= 0.00%	
20) 2,4,6-Tribromophenol	0.000	330	0d	0.00 ppm	
Spiked Amount 50.000			Recovery	= 0.00%	
28) Terphenyl-d14	0.000	244	0d	0.00 ppm	
Spiked Amount 50.000			Recovery	= 0.00%	
Target Compounds					Qvalue
2) 1,4-dioxane	2.035	88	42052	0.97 ppm	87
12) 1-Methylnaphthalene	10.344	141	243639	0.94 ppm	99
13) Hexachlorocyclopentadiene	10.487	237	30105	0.97 ppm	97

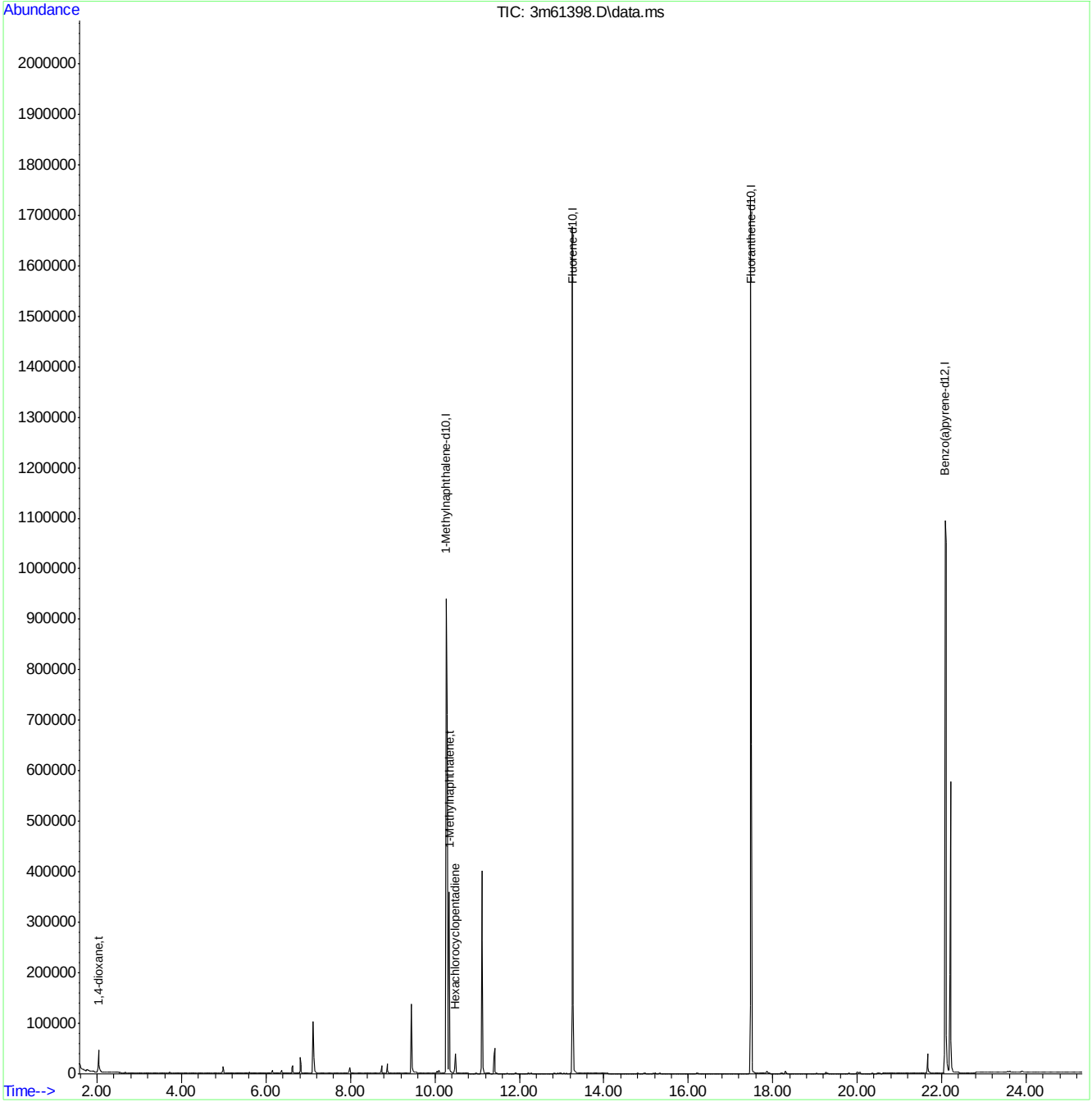
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC21347

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2887\
Data File : 3m61398.D
Acq On : 17 May 2016 7:45 pm
Operator : linseyk
Sample : icv2887-1
Misc : op99506a,e3m2887
ALS Vial : 13 Sample Multiplier: 1

Quant Time: May 18 08:22:08 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2887SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Wed May 18 08:07:34 2016
Response via : Initial Calibration



M3M2887SIM.M Wed May 18 08:22:13 2016 RPT1 Page: 2

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2888\
Data File : 3m61400.D
Acq On : 18 May 2016 9:12 am
Operator : linseyk
Sample : icv2887-1
Misc : op99506a,e3m2888
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 18 09:38:58 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2887SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Wed May 18 08:07:34 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	10.262	150	553654	4.00	ppm	0.00
14) Fluorene-d10	13.262	176	691379	4.00	ppm	0.00
21) Fluoranthene-d10	17.479	212	1199662	4.00	ppm	0.00
31) Benzo(a)pyrene-d12	22.084	264	934833	4.00	ppm	0.00
System Monitoring Compounds						
3) 2-Fluorophenol	0.000	112	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
4) Phenol-d5	0.000	99	0d	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
7) Nitrobenzene-d5	0.000	82	0d	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
15) 2-Fluorobiphenyl	0.000	172	0d	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
20) 2,4,6-Tribromophenol	0.000	330	0d	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
28) Terphenyl-d14	0.000	244	0d	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
Target Compounds						Qvalue
5) Phenol	5.871	94	535934	4.49	ppm	# 71
18) 4,6-dinitro-2-methylph...	13.507	198	91031	4.81	ppm	73
23) Pentachlorophenol	14.852	266	117089	5.29	ppm	82

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

7.6.38

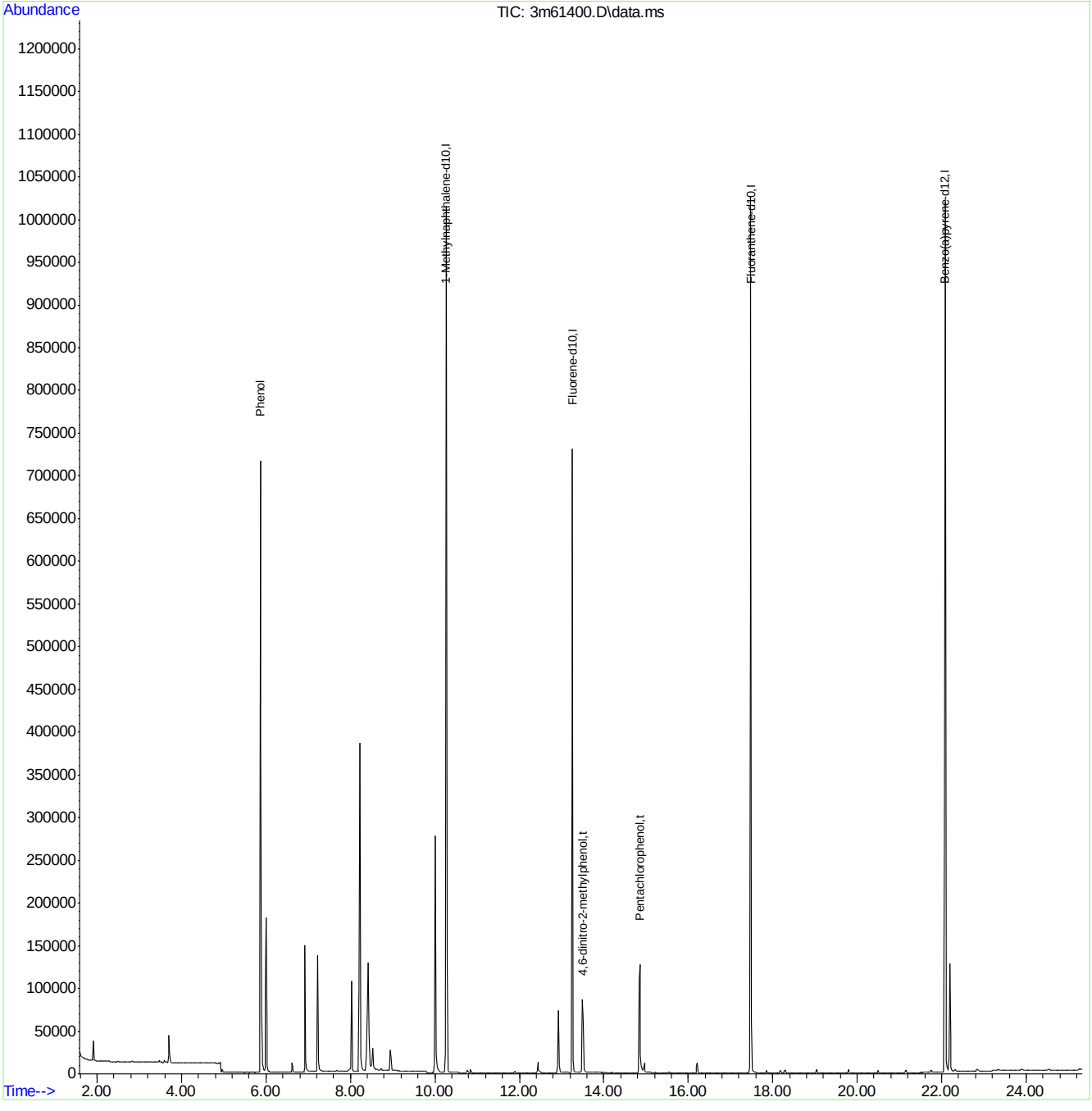
7

SGS ACCUTEST JC21347

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2888\
Data File : 3m61400.D
Acq On : 18 May 2016 9:12 am
Operator : linseyk
Sample : icv2887-1
Misc : op99506a,e3m2888
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 18 09:38:58 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2887SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Wed May 18 08:07:34 2016
Response via : Initial Calibration



M3M2887SIM.M Wed May 18 09:44:09 2016 RPT1 Page: 2

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2918\
Data File : 3m61909.D
Acq On : 3 Jun 2016 7:55 am
Operator : ashleyd
Sample : cc2887-0.5
Misc : op94207a,e3m2918
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 03 12:29:51 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2887SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri Jun 03 12:29:24 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1-Methylnaphthalene-d10	10.118	150	514179	4.00	ppm		-0.10
14) Fluorene-d10	13.111	176	667553	4.00	ppm		-0.11
21) Fluoranthene-d10	17.340	212	1044113	4.00	ppm		-0.02
31) Benzo(a)pyrene-d12	21.960	264	875594	4.00	ppm		-0.02
System Monitoring Compounds							
3) 2-Fluorophenol	4.137	112	641230	9.75	ppm		-0.09
Spiked Amount 50.000			Recovery	=	19.50%		
4) Phenol-d5	5.774	99	1004943	9.49	ppm		-0.07
Spiked Amount 50.000			Recovery	=	18.98%		
7) Nitrobenzene-d5	7.250	82	880186	9.85	ppm		-0.12
Spiked Amount 50.000			Recovery	=	19.70%		
15) 2-Fluorobiphenyl	10.795	172	1888763	11.44	ppm		-0.11
Spiked Amount 50.000			Recovery	=	22.88%		
20) 2,4,6-Tribromophenol	13.676	330	185064	11.41	ppm		-0.11
Spiked Amount 50.000			Recovery	=	22.82%		
28) Terphenyl-d14	18.159	244	1719963	11.80	ppm		-0.01
Spiked Amount 50.000			Recovery	=	23.60%		
Target Compounds							Qvalue
2) 1,4-dioxane	1.927	88	14470	0.50	ppm		98
5) Phenol	5.786	94	270349	2.44	ppm	#	80
6) bis(2-Chloroethyl)ether	5.823	93	37939	0.48	ppm		72
8) Nitrobenzene	7.287	77	47323	0.51	ppm		64
9) Naphthalene	8.624	128	127736	0.44	ppm		100
10) Hexachlorobutadiene	8.907	225	20559	0.45	ppm		90
11) 2-Methylnaphthalene	9.995	141	73116	0.48	ppm	#	60
12) 1-Methylnaphthalene	10.180	141	78902	0.45	ppm	#	66
13) Hexachlorocyclopentadiene	10.323	237	6151	0.44	ppm		94
16) Acenaphthylene	11.774	152	116980	0.55	ppm		90
17) Acenaphthene	12.129	153	81500	0.58	ppm		72
18) 4,6-dinitro-2-methylph...	13.394	198	31397	2.33	ppm		88
19) Fluorene	13.168	166	97377	0.56	ppm		100
22) Hexachlorobenzene	14.249	284	23701	0.51	ppm		97
23) Pentachlorophenol	14.728	266	15005	1.19	ppm		94
24) Phenanthrene	15.068	178	135304	0.56	ppm		92
25) Anthracene	15.176	178	124992	0.56	ppm		91
26) Fluoranthene	17.371	202	156049	0.53	ppm		99
27) Pyrene	17.773	202	158103	0.59	ppm		85
29) Benzo[a]anthracene	19.874	228	148886	0.63	ppm		98
30) Chrysene	19.921	228	141624	0.58	ppm		97
32) Benzo[b]fluoranthene	21.543	252	145814	0.54	ppm		97
33) Benzo[k]fluoranthene	21.589	252	139129	0.58	ppm		98
34) Benzo[a]pyrene	21.991	252	140021	0.58	ppm		99
35) Indeno[1,2,3-cd]pyrene	23.431	276	171843	0.60	ppm		95
36) Dibenz[a,h]anthracene	23.468	278	140317	0.62	ppm		76
37) Benzo[g,h,i]perylene	23.769	276	147478	0.60	ppm		98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2918\
Data File : 3m61909.D
Acq On : 3 Jun 2016 7:55 am
Operator : ashleyd
Sample : cc2887-0.5
Misc : op94207a,e3m2918
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 03 12:29:51 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2887SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri Jun 03 12:29:24 2016
Response via : Initial Calibration

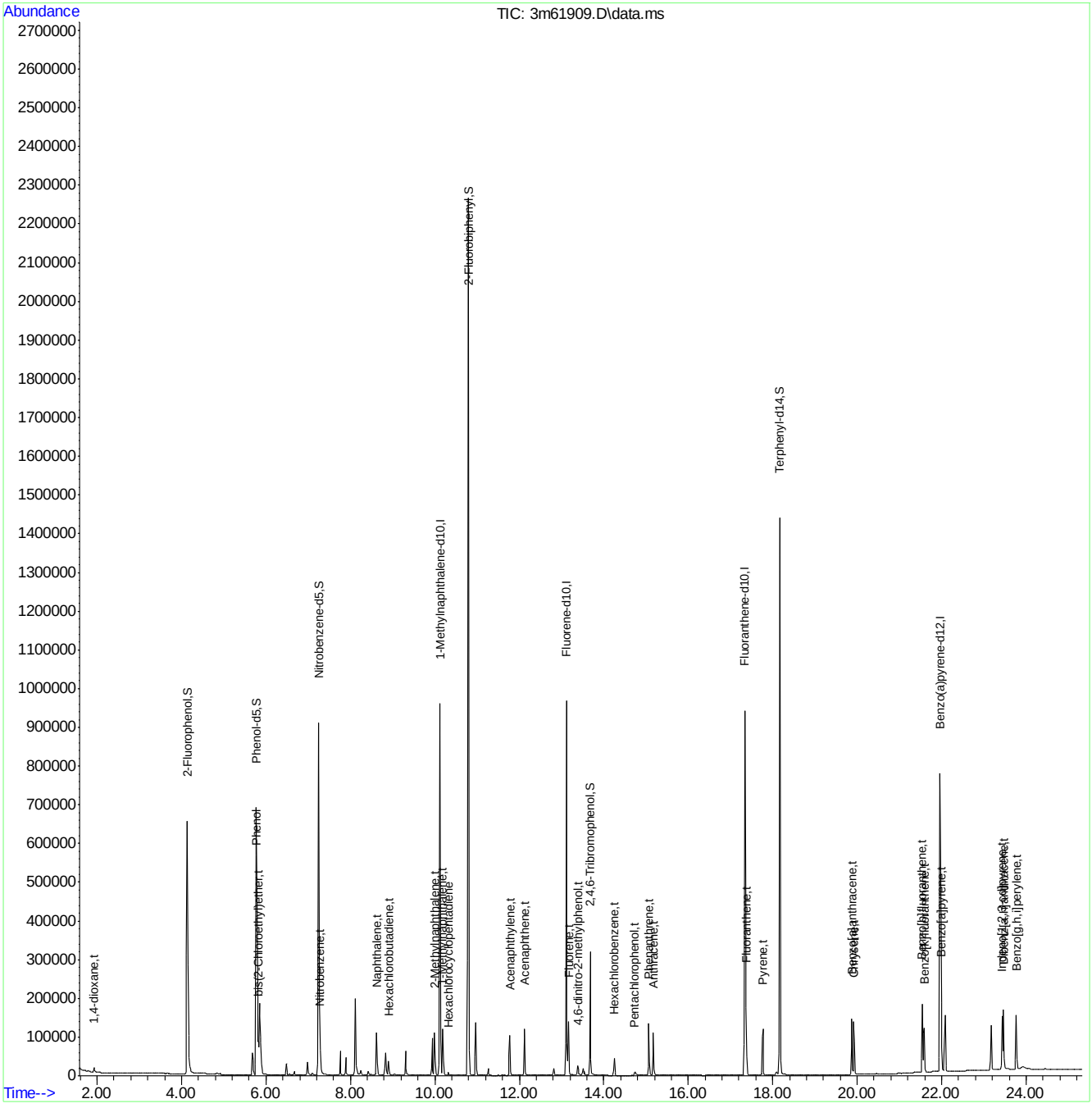
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2918\
Data File : 3m61909.D
Acq On : 3 Jun 2016 7:55 am
Operator : ashleyd
Sample : cc2887-0.5
Misc : op94207a,e3m2918
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 03 12:29:51 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2887SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri Jun 03 12:29:24 2016
Response via : Initial Calibration



M3M2887SIM.M Fri Jun 03 12:30:22 2016 RPT1 Page: 3

SGS ACCUTEST JC21347

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2919\
Data File : 3m61923.D
Acq On : 3 Jun 2016 3:20 pm
Operator : linseyk
Sample : cc2887-1
Misc : op94255a,e3m2919
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 05 17:34:04 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2887SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Sun Jun 05 17:11:29 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	10.118	150	621950	4.00	ppm	0.00
14) Fluorene-d10	13.111	176	821873	4.00	ppm	0.00
21) Fluoranthene-d10	17.340	212	1292968	4.00	ppm	-0.02
31) Benzo(a)pyrene-d12	21.960	264	1012502	4.00	ppm	-0.02
System Monitoring Compounds						
3) 2-Fluorophenol	4.137	112	1432499	18.01	ppm	-0.05
Spiked Amount 50.000			Recovery = 36.02%			
4) Phenol-d5	5.762	99	2249049	17.56	ppm	-0.03
Spiked Amount 50.000			Recovery = 35.12%			
7) Nitrobenzene-d5	7.250	82	2027792	18.76	ppm	-0.05
Spiked Amount 50.000			Recovery = 37.52%			
15) 2-Fluorobiphenyl	10.795	172	4136427	20.35	ppm	-0.02
Spiked Amount 50.000			Recovery = 40.70%			
20) 2,4,6-Tribromophenol	13.676	330	425611	21.32	ppm	0.00
Spiked Amount 50.000			Recovery = 42.64%			
28) Terphenyl-d14	18.159	244	3916976	21.70	ppm	-0.01
Spiked Amount 50.000			Recovery = 43.40%			
Target Compounds						Qvalue
2) 1,4-dioxane	1.927	88	30420	0.86	ppm	88
5) Phenol	5.786	94	614090	4.58	ppm	96
6) bis(2-Chloroethyl)ether	5.823	93	86279	0.90	ppm	79
8) Nitrobenzene	7.287	77	113938	1.02	ppm #	52
9) Naphthalene	8.624	128	302311	0.86	ppm	98
10) Hexachlorobutadiene	8.907	225	50526	0.92	ppm	80
11) 2-Methylnaphthalene	9.995	141	181519	0.99	ppm #	72
12) 1-Methylnaphthalene	10.180	141	194937	0.93	ppm	76
13) Hexachlorocyclopentadiene	10.323	237	38897	1.40	ppm	84
16) Acenaphthylene	11.758	152	269600	1.02	ppm	98
17) Acenaphthene	12.114	153	187479	1.08	ppm	99
18) 4,6-dinitro-2-methylph...	13.375	198	127933	5.52	ppm	62
19) Fluorene	13.168	166	213408	1.00	ppm	98
22) Hexachlorobenzene	14.249	284	54460	0.95	ppm	99
23) Pentachlorophenol	14.728	266	94331	4.11	ppm	86
24) Phenanthrene	15.068	178	314252	1.04	ppm	95
25) Anthracene	15.176	178	310983	1.13	ppm	90
26) Fluoranthene	17.371	202	348897	0.95	ppm	99
27) Pyrene	17.757	202	363621	1.10	ppm	98
29) Benzo[a]anthracene	19.874	228	329670	1.13	ppm	100
30) Chrysene	19.921	228	329105	1.09	ppm	99
32) Benzo[b]fluoranthene	21.543	252	328843	1.05	ppm	94
33) Benzo[k]fluoranthene	21.574	252	301345	1.09	ppm	86
34) Benzo[a]pyrene	21.991	252	312038	1.11	ppm	95
35) Indeno[1,2,3-cd]pyrene	23.431	276	367357	1.10	ppm	92
36) Dibenz[a,h]anthracene	23.468	278	314982	1.19	ppm	96
37) Benzo[g,h,i]perylene	23.769	276	319443	1.12	ppm	99

SGS ACCUTEST JC21347

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2919\
Data File : 3m61923.D
Acq On : 3 Jun 2016 3:20 pm
Operator : linseyk
Sample : cc2887-1
Misc : op94255a,e3m2919
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 05 17:34:04 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2887SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Sun Jun 05 17:11:29 2016
Response via : Initial Calibration

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

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

7.6.40

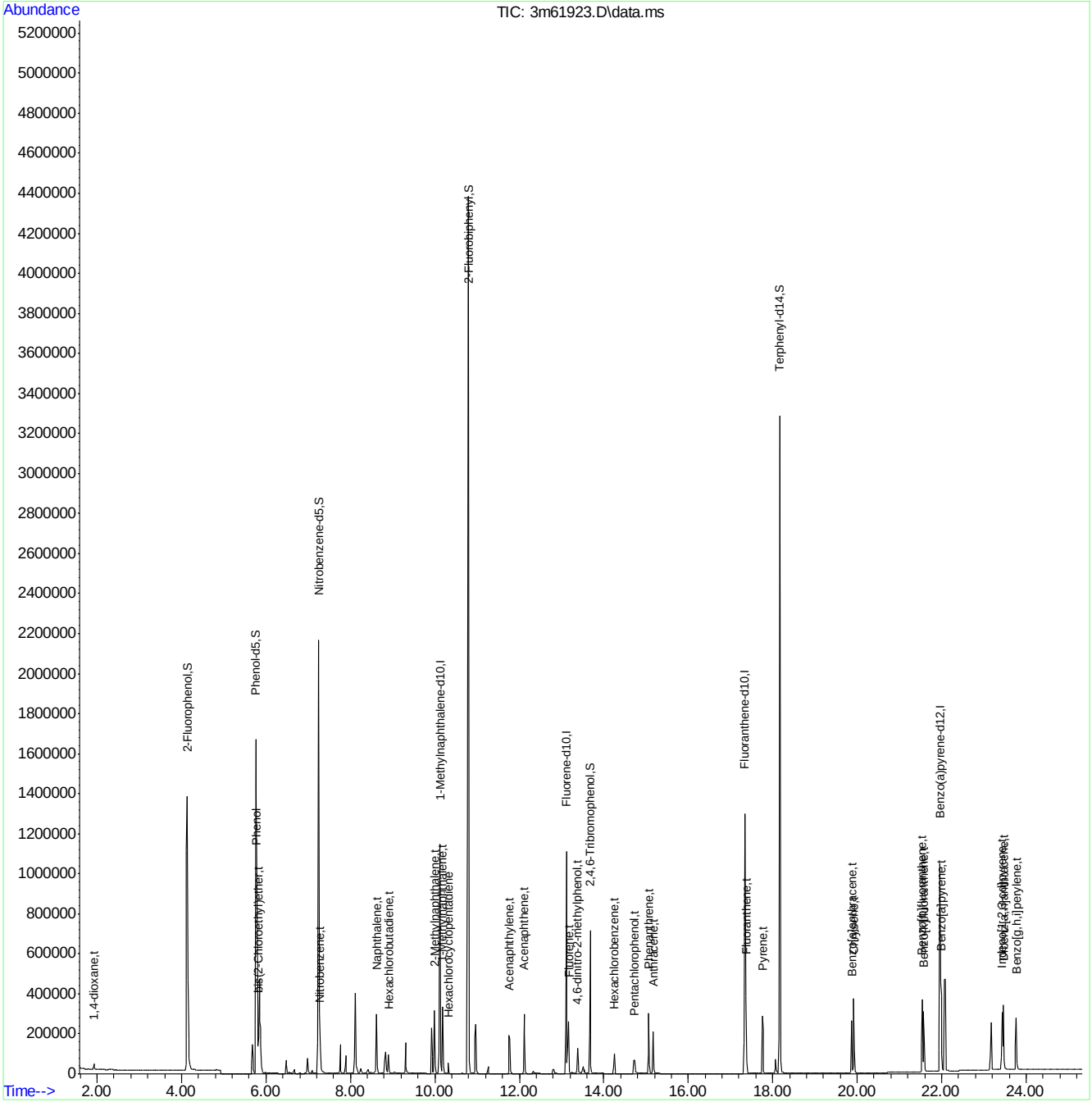
7

SGS ACCUTEST JC21347

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2919\
Data File : 3m61923.D
Acq On : 3 Jun 2016 3:20 pm
Operator : linseyk
Sample : cc2887-1
Misc : op94255a,e3m2919
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 05 17:34:04 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2887SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Sun Jun 05 17:11:29 2016
Response via : Initial Calibration



SGS ACCUTEST JC21347

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2930\
Data File : 3m62147.D
Acq On : 10 Jun 2016 8:54 pm
Operator : juliusj
Sample : cc2887-0.5
Misc : op94389a,e3m2930
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 10 21:18:02 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2887SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu Jun 09 10:49:16 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	10.159	150	871013	4.00	ppm	0.04
14) Fluorene-d10	13.168	176	1068108	4.00	ppm	0.06
21) Fluoranthene-d10	17.402	212	1746157	4.00	ppm	0.05
31) Benzo(a)pyrene-d12	22.037	264	1477786	4.00	ppm	0.06
System Monitoring Compounds						
3) 2-Fluorophenol	4.214	112	1123642	10.09	ppm	0.03
Spiked Amount 50.000			Recovery = 20.18%			
4) Phenol-d5	5.859	99	1608907	8.97	ppm	0.07
Spiked Amount 50.000			Recovery = 17.94%			
7) Nitrobenzene-d5	7.287	82	1570207	10.37	ppm	0.00
Spiked Amount 50.000			Recovery = 20.74%			
15) 2-Fluorobiphenyl	10.831	172	3359071	12.72	ppm	0.02
Spiked Amount 50.000			Recovery = 25.44%			
20) 2,4,6-Tribromophenol	13.733	330	274017	10.56	ppm	0.06
Spiked Amount 50.000			Recovery = 21.12%			
28) Terphenyl-d14	18.221	244	2893139	11.87	ppm	0.05
Spiked Amount 50.000			Recovery = 23.74%			
Target Compounds						Qvalue
2) 1,4-dioxane	1.958	88	26402	0.53	ppm #	10
5) Phenol	5.883	94	425129	2.26	ppm #	81
6) bis(2-Chloroethyl)ether	5.859	93	78609	0.58	ppm #	46
8) Nitrobenzene	7.325	77	89032	0.57	ppm	69
9) Naphthalene	8.662	128	224773	0.46	ppm	100
10) Hexachlorobutadiene	8.944	225	36895	0.48	ppm	79
11) 2-Methylnaphthalene	10.036	141	138457	0.54	ppm	89
12) 1-Methylnaphthalene	10.221	141	133648	0.45	ppm #	67
13) Hexachlorocyclopentadiene	10.364	237	31835	0.92	ppm	87
16) Acenaphthylene	11.820	152	193903	0.57	ppm	90
17) Acenaphthene	12.176	153	139003	0.61	ppm	72
18) 4,6-dinitro-2-methylph...	13.450	198	57770	2.54	ppm	87
19) Fluorene	13.205	166	160460	0.58	ppm	75
22) Hexachlorobenzene	14.295	284	37407	0.48	ppm	82
23) Pentachlorophenol	14.790	266	45147	1.78	ppm	100
24) Phenanthrene	15.130	178	227971	0.56	ppm	96
25) Anthracene	15.223	178	210930	0.57	ppm	100
26) Fluoranthene	17.433	202	254548	0.51	ppm	99
27) Pyrene	17.835	202	259091	0.58	ppm	87
29) Benzo[a]anthracene	19.936	228	244211	0.62	ppm	93
30) Chrysene	19.998	228	240125	0.59	ppm	90
32) Benzo[b]fluoranthene	21.620	252	252605	0.55	ppm	92
33) Benzo[k]fluoranthene	21.651	252	222175	0.55	ppm	90
34) Benzo[a]pyrene	22.068	252	230776	0.56	ppm	98
35) Indeno[1,2,3-cd]pyrene	23.525	276	279272	0.57	ppm	94
36) Dibenz[a,h]anthracene	23.562	278	225449	0.59	ppm	90
37) Benzo[g,h,i]perylene	23.863	276	238301	0.57	ppm	97

SGS ACCUTEST JC21347

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2930\
Data File : 3m62147.D
Acq On : 10 Jun 2016 8:54 pm
Operator : juliusj
Sample : cc2887-0.5
Misc : op94389a,e3m2930
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 10 21:18:02 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2887SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu Jun 09 10:49:16 2016
Response via : Initial Calibration

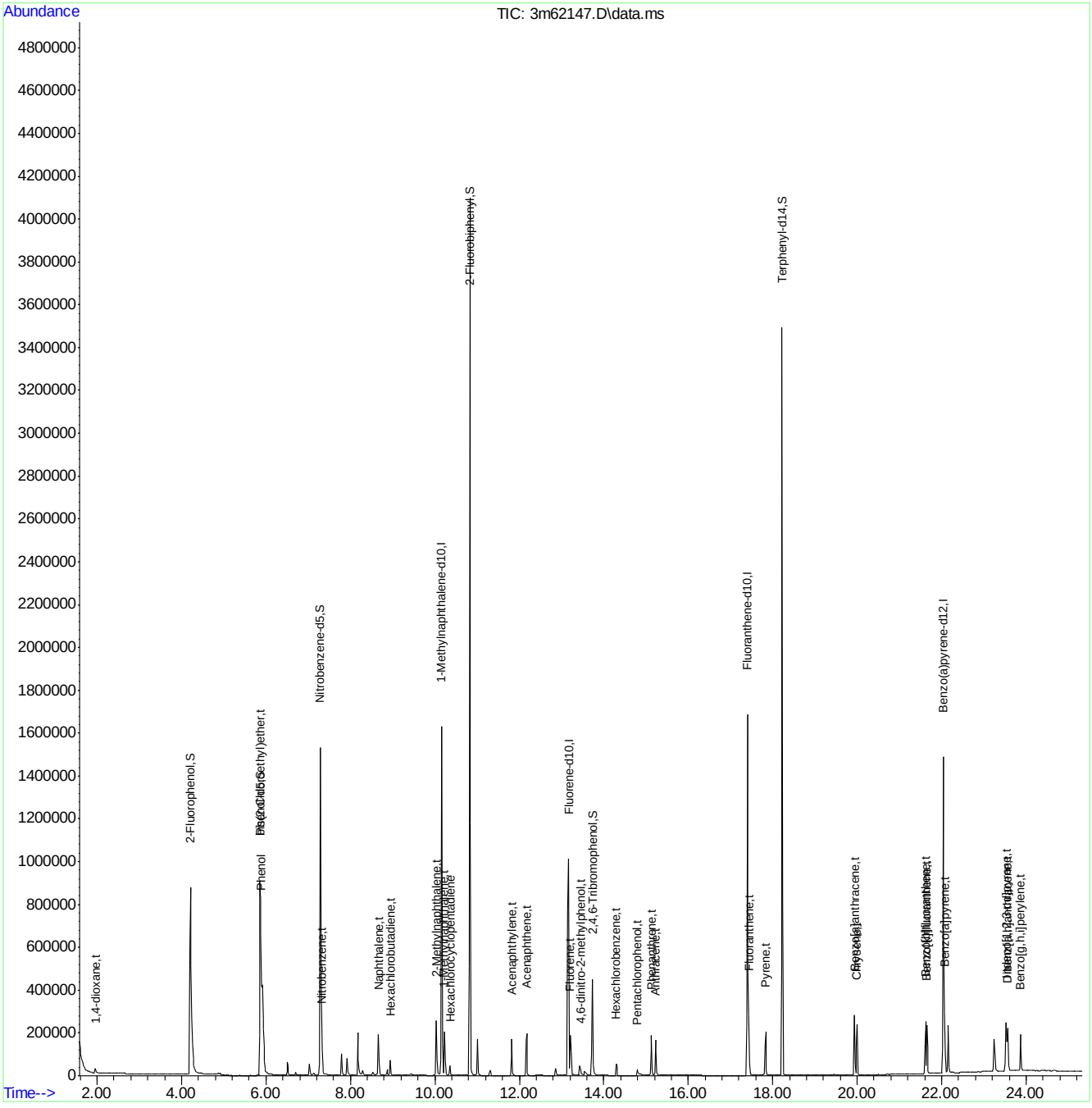
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2930\
Data File : 3m62147.D
Acq On : 10 Jun 2016 8:54 pm
Operator : juliusj
Sample : cc2887-0.5
Misc : op94389a,e3m2930
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 10 21:18:02 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2887SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu Jun 09 10:49:16 2016
Response via : Initial Calibration



SGS ACCUTEST JC21347

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2931\
Data File : 3m62182.D
Acq On : 13 Jun 2016 8:20 pm
Operator : juliusj
Sample : icc2931-1.0
Misc : op94419a,e3m2931
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 14 08:10:07 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2931SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Tue Jun 14 08:09:55 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	10.734	150	163773	4.00	ppm	0.00
14) Fluorene-d10	13.730	176	252183	4.00	ppm	0.00
21) Fluoranthene-d10	17.937	212	423588	4.00	ppm	0.00
31) Benzo(a)pyrene-d12	22.532	264	370674	4.00	ppm	0.00
System Monitoring Compounds						
3) 2-Fluorophenol	4.631	112	473669	20.19	ppm	0.00
Spiked Amount 50.000			Recovery = 40.38%			
4) Phenol-d5	6.234	99	738126	20.09	ppm	0.00
Spiked Amount 50.000			Recovery = 40.18%			
7) Nitrobenzene-d5	7.815	82	891516	20.13	ppm	0.00
Spiked Amount 50.000			Recovery = 40.26%			
15) 2-Fluorobiphenyl	11.391	172	1554588	20.11	ppm	0.00
Spiked Amount 50.000			Recovery = 40.22%			
20) 2,4,6-Tribromophenol	14.276	330	186777	19.94	ppm	0.00
Spiked Amount 50.000			Recovery = 39.88%			
28) Terphenyl-d14	18.725	244	1391821	20.00	ppm	0.00
Spiked Amount 50.000			Recovery = 40.00%			
Target Compounds						Qvalue
2) 1,4-dioxane	2.375	88	8899	0.93	ppm #	60
5) Phenol	6.246	94	186771	4.86	ppm #	82
6) bis(2-Chloroethyl)ether	6.379	93	26516	0.95	ppm	72
8) Nitrobenzene	7.852	77	49811	0.95	ppm	100
9) Naphthalene	9.227	128	104113	1.00	ppm	100
10) Hexachlorobutadiene	9.528	225	19991	0.97	ppm	100
11) 2-Methylnaphthalene	10.610	141	52075	0.98	ppm	100
12) 1-Methylnaphthalene	10.795	141	61213	1.00	ppm	100
13) Hexachlorocyclopentadiene	10.959	237	45501	1.99	ppm	100
16) Acenaphthylene	12.380	152	104664	0.99	ppm	100
17) Acenaphthene	12.736	153	66915	1.00	ppm	100
18) 4,6-dinitro-2-methylph...	13.937	198	47069	4.92	ppm	99
19) Fluorene	13.786	166	75533	0.99	ppm	99
22) Hexachlorobenzene	14.892	284	21654	1.00	ppm	100
23) Pentachlorophenol	15.310	266	64922	4.78	ppm	100
24) Phenanthrene	15.696	178	114104	1.00	ppm	100
25) Anthracene	15.789	178	114044	0.99	ppm	100
26) Fluoranthene	17.952	202	132703	0.99	ppm	100
27) Pyrene	18.354	202	135405	0.99	ppm	100
29) Benzo[a]anthracene	20.440	228	131640	1.00	ppm	99
30) Chrysene	20.486	228	127618	1.00	ppm	99
32) Benzo[b]fluoranthene	22.099	252	130198	1.00	ppm	98
33) Benzo[k]fluoranthene	22.137	252	116600	0.96	ppm	97
34) Benzo[a]pyrene	22.551	252	117216	0.97	ppm	98
35) Indeno[1,2,3-cd]pyrene	24.093	276	132578	1.00	ppm	98
36) Dibenz[a,h]anthracene	24.131	278	112390	0.95	ppm	89
37) Benzo[g,h,i]perylene	24.488	276	112498	0.98	ppm	95

SGS ACCUTEST JC21347

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2931\
Data File : 3m62182.D
Acq On : 13 Jun 2016 8:20 pm
Operator : juliusj
Sample : icc2931-1.0
Misc : op94419a,e3m2931
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 14 08:10:07 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2931SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Tue Jun 14 08:09:55 2016
Response via : Initial Calibration

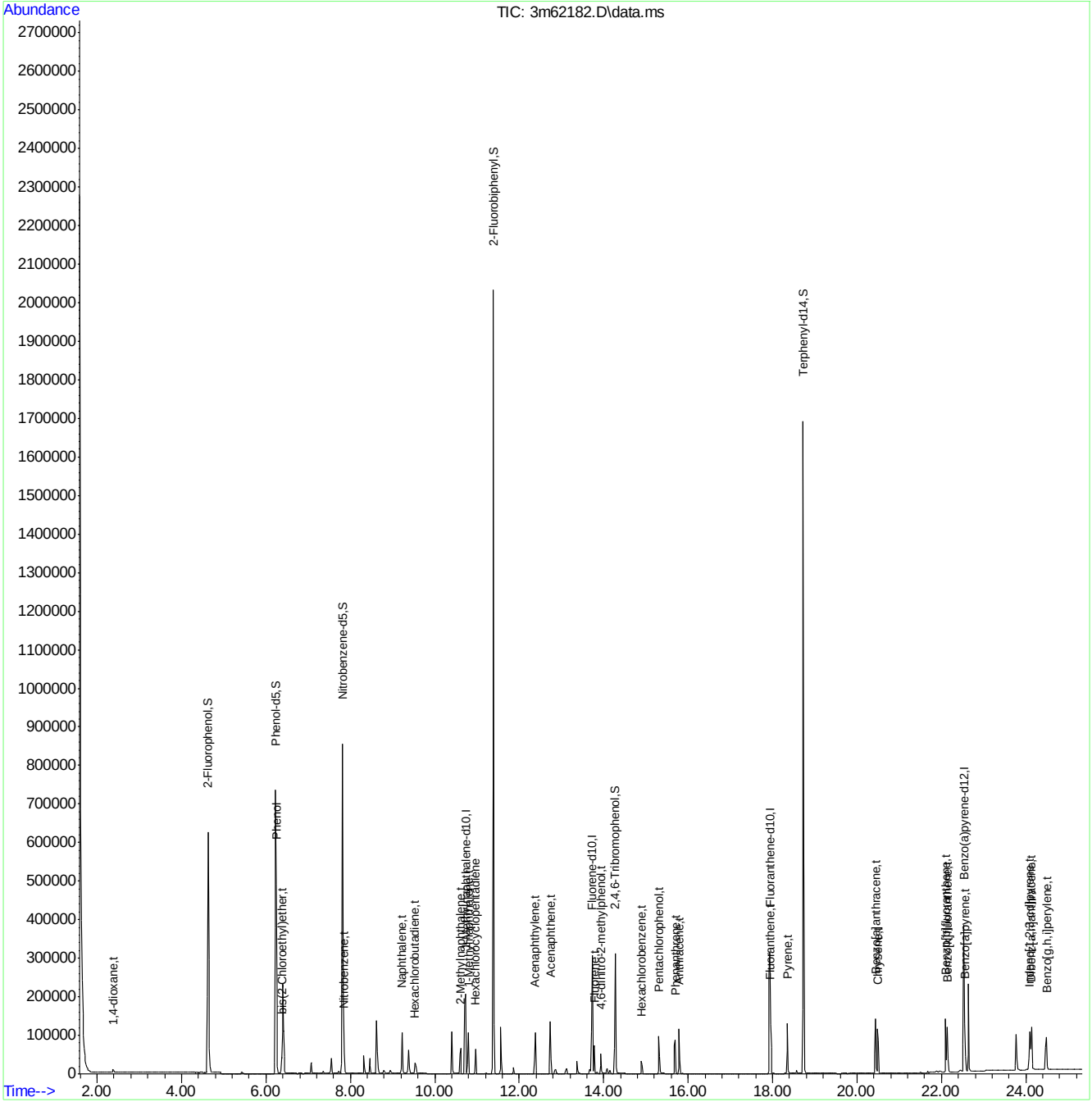
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2931\
Data File : 3m62182.D
Acq On : 13 Jun 2016 8:20 pm
Operator : juliusj
Sample : icc2931-1.0
Misc : op94419a,e3m2931
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 14 08:10:07 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2931SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Tue Jun 14 08:09:55 2016
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2931\
Data File : 3m62183.D
Acq On : 13 Jun 2016 8:52 pm
Operator : juliusj
Sample : ic2931-0.5
Misc : op94419a,e3m2931
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 14 08:10:10 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2931SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Tue Jun 14 08:09:55 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	10.713	150	174155	4.00	ppm	-0.02
14) Fluorene-d10	13.730	176	259475	4.00	ppm	0.00
21) Fluoranthene-d10	17.921	212	447731	4.00	ppm	-0.02
31) Benzo(a)pyrene-d12	22.532	264	382749	4.00	ppm	0.00
System Monitoring Compounds						
3) 2-Fluorophenol	4.646	112	245667	9.85	ppm	0.02
Spiked Amount 50.000			Recovery = 19.70%			
4) Phenol-d5	6.234	99	386639	9.89	ppm	0.00
Spiked Amount 50.000			Recovery = 19.78%			
7) Nitrobenzene-d5	7.814	82	467909	9.94	ppm	0.00
Spiked Amount 50.000			Recovery = 19.88%			
15) 2-Fluorobiphenyl	11.391	172	823787	10.36	ppm	0.00
Spiked Amount 50.000			Recovery = 20.72%			
20) 2,4,6-Tribromophenol	14.276	330	89755	9.31	ppm	0.00
Spiked Amount 50.000			Recovery = 18.62%			
28) Terphenyl-d14	18.725	244	792605	10.77	ppm	0.00
Spiked Amount 50.000			Recovery = 21.54%			
Target Compounds						Qvalue
2) 1,4-dioxane	2.390	88	4372	0.43	ppm	# 70
5) Phenol	6.246	94	101300	2.48	ppm	96
6) bis(2-Chloroethyl)ether	6.379	93	13849	0.47	ppm	73
8) Nitrobenzene	7.852	77	24017	0.43	ppm	98
9) Naphthalene	9.227	128	53993	0.49	ppm	100
10) Hexachlorobutadiene	9.528	225	10479	0.48	ppm	99
11) 2-Methylnaphthalene	10.590	141	27009	0.48	ppm	# 45
12) 1-Methylnaphthalene	10.795	141	31263	0.48	ppm	97
13) Hexachlorocyclopentadiene	10.959	237	22639	0.93	ppm	99
16) Acenaphthylene	12.380	152	54082	0.50	ppm	99
17) Acenaphthene	12.735	153	34892	0.51	ppm	97
18) 4,6-dinitro-2-methylph...	13.937	198	19658	2.00	ppm	85
19) Fluorene	13.767	166	39350	0.50	ppm	# 58
22) Hexachlorobenzene	14.892	284	11517	0.50	ppm	96
23) Pentachlorophenol	15.309	266	26749	1.86	ppm	94
24) Phenanthrene	15.681	178	60339	0.50	ppm	90
25) Anthracene	15.789	178	58631	0.48	ppm	99
26) Fluoranthene	17.952	202	70019	0.49	ppm	99
27) Pyrene	18.354	202	70125	0.49	ppm	97
29) Benzo[a]anthracene	20.440	228	66673	0.48	ppm	97
30) Chrysene	20.486	228	68343	0.50	ppm	97
32) Benzo[b]fluoranthene	22.099	252	73354	0.55	ppm	98
33) Benzo[k]fluoranthene	22.137	252	66019	0.53	ppm	98
34) Benzo[a]pyrene	22.551	252	65587	0.52	ppm	98
35) Indeno[1,2,3-cd]pyrene	24.093	276	70509	0.52	ppm	99
36) Dibenz[a,h]anthracene	24.131	278	56497	0.46	ppm	82
37) Benzo[g,h,i]perylene	24.469	276	59994	0.51	ppm	93

SGS ACCUTEST JC21347

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2931\
Data File : 3m62183.D
Acq On : 13 Jun 2016 8:52 pm
Operator : juliusj
Sample : ic2931-0.5
Misc : op94419a,e3m2931
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 14 08:10:10 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2931SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Tue Jun 14 08:09:55 2016
Response via : Initial Calibration

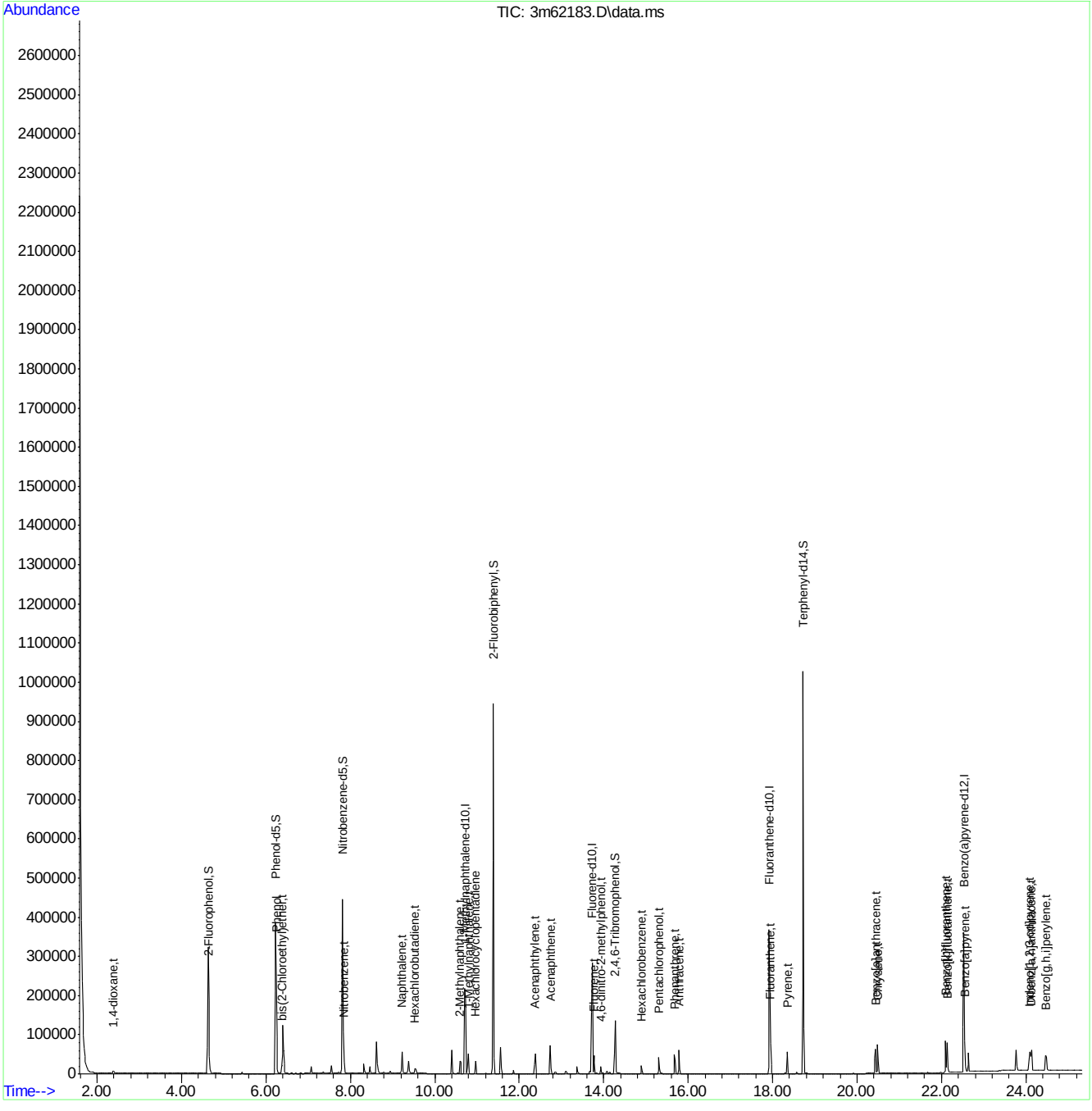
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2931\
Data File : 3m62183.D
Acq On : 13 Jun 2016 8:52 pm
Operator : juliusj
Sample : ic2931-0.5
Misc : op94419a,e3m2931
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 14 08:10:10 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2931SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Tue Jun 14 08:09:55 2016
Response via : Initial Calibration



SGS ACCUTEST JC21347

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2931\
Data File : 3m62184.D
Acq On : 13 Jun 2016 9:24 pm
Operator : juliusj
Sample : ic2931-0.2
Misc : op94419a,e3m2931
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 14 08:10:12 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2931SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Tue Jun 14 08:09:55 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	10.713	150	166589	4.00	ppm	-0.02
14) Fluorene-d10	13.730	176	278306	4.00	ppm	0.00
21) Fluoranthene-d10	17.922	212	501429	4.00	ppm	-0.02
31) Benzo(a)pyrene-d12	22.532	264	405305	4.00	ppm	0.00
System Monitoring Compounds						
3) 2-Fluorophenol	4.647	112	100657	4.22	ppm	0.02
Spiked Amount 50.000			Recovery	=	8.44%	
4) Phenol-d5	6.234	99	159033	4.25	ppm	0.00
Spiked Amount 50.000			Recovery	=	8.50%	
7) Nitrobenzene-d5	7.815	82	189697	4.21	ppm	0.00
Spiked Amount 50.000			Recovery	=	8.42%	
15) 2-Fluorobiphenyl	11.391	172	330640	3.88	ppm	0.00
Spiked Amount 50.000			Recovery	=	7.76%	
20) 2,4,6-Tribromophenol	14.276	330	34114	3.30	ppm	0.00
Spiked Amount 50.000			Recovery	=	6.60%	
28) Terphenyl-d14	18.725	244	318323	3.86	ppm	0.00
Spiked Amount 50.000			Recovery	=	7.72%	
Target Compounds						Qvalue
2) 1,4-dioxane	2.390	88	2168	0.22	ppm #	70
5) Phenol	6.246	94	41661	1.07	ppm	87
6) bis(2-Chloroethyl)ether	6.379	93	5756	0.20	ppm	72
8) Nitrobenzene	7.852	77	9574	0.18	ppm	98
9) Naphthalene	9.227	128	21666	0.20	ppm	100
10) Hexachlorobutadiene	9.528	225	4327	0.21	ppm	98
11) 2-Methylnaphthalene	10.590	141	11677	0.22	ppm #	44
12) 1-Methylnaphthalene	10.795	141	13090	0.21	ppm	98
13) Hexachlorocyclopentadiene	10.959	237	8705	0.38	ppm	97
16) Acenaphthylene	12.380	152	21582	0.19	ppm	99
17) Acenaphthene	12.736	153	13708	0.19	ppm	96
18) 4,6-dinitro-2-methylph...	13.937	198	6617	0.63	ppm	88
19) Fluorene	13.767	166	16088	0.19	ppm #	61
22) Hexachlorobenzene	14.892	284	4704	0.18	ppm	97
23) Pentachlorophenol	15.310	266	10698	0.67	ppm	95
24) Phenanthrene	15.681	178	23474	0.17	ppm	89
25) Anthracene	15.789	178	23329	0.17	ppm	98
26) Fluoranthene	17.952	202	28646	0.18	ppm	99
27) Pyrene	18.354	202	27829	0.17	ppm	96
29) Benzo[a]anthracene	20.440	228	25653	0.16	ppm	96
30) Chrysene	20.486	228	27096	0.18	ppm	95
32) Benzo[b]fluoranthene	22.099	252	29872	0.21	ppm	96
33) Benzo[k]fluoranthene	22.137	252	25736	0.19	ppm	96
34) Benzo[a]pyrene	22.551	252	27278	0.21	ppm	96
35) Indeno[1,2,3-cd]pyrene	24.093	276	28322	0.20	ppm	96
36) Dibenz[a,h]anthracene	24.131	278	22509	0.17	ppm	77
37) Benzo[g,h,i]perylene	24.469	276	24104	0.19	ppm	93

SGS ACCUTEST JC21347

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2931\
Data File : 3m62184.D
Acq On : 13 Jun 2016 9:24 pm
Operator : juliusj
Sample : ic2931-0.2
Misc : op94419a,e3m2931
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 14 08:10:12 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2931SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Tue Jun 14 08:09:55 2016
Response via : Initial Calibration

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

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

7.6.44

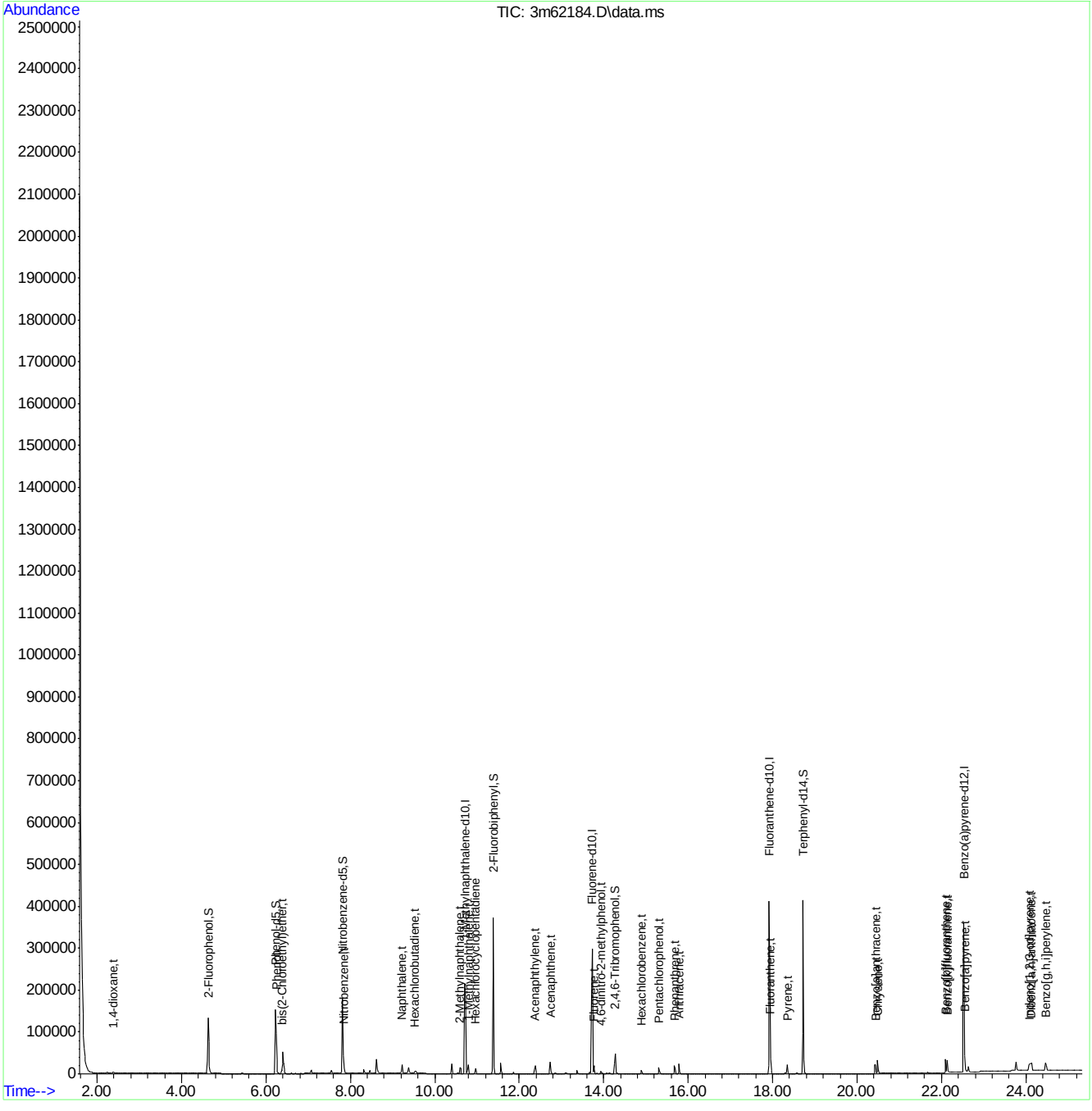
7

SGS ACCUTEST JC21347

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2931\
Data File : 3m62184.D
Acq On : 13 Jun 2016 9:24 pm
Operator : juliusj
Sample : ic2931-0.2
Misc : op94419a,e3m2931
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 14 08:10:12 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2931SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Tue Jun 14 08:09:55 2016
Response via : Initial Calibration



M3M2931SIM.M Tue Jun 14 08:37:01 2016 RPT1 Page: 3

SGS ACCUTEST JC21347

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2931\
Data File : 3m62185.D
Acq On : 13 Jun 2016 9:57 pm
Operator : juliusj
Sample : ic2931-0.1
Misc : op94419a,e3m2931
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 14 08:10:14 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2931SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Tue Jun 14 08:09:55 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	10.713	150	152199	4.00	ppm	-0.02
14) Fluorene-d10	13.730	176	241984	4.00	ppm	0.00
21) Fluoranthene-d10	17.921	212	438124	4.00	ppm	-0.02
31) Benzo(a)pyrene-d12	22.532	264	365526	4.00	ppm	0.00
System Monitoring Compounds						
3) 2-Fluorophenol	4.631	112	40757	1.87	ppm	0.00
Spiked Amount 50.000			Recovery	=	3.74%	
4) Phenol-d5	6.234	99	63367	1.86	ppm	0.00
Spiked Amount 50.000			Recovery	=	3.72%	
7) Nitrobenzene-d5	7.814	82	74393	1.81	ppm	0.00
Spiked Amount 50.000			Recovery	=	3.62%	
15) 2-Fluorobiphenyl	11.391	172	133542	1.80	ppm	0.00
Spiked Amount 50.000			Recovery	=	3.60%	
20) 2,4,6-Tribromophenol	14.276	330	12777	1.42	ppm	0.00
Spiked Amount 50.000			Recovery	=	2.84%	
28) Terphenyl-d14	18.725	244	127371	1.77	ppm	0.00
Spiked Amount 50.000			Recovery	=	3.54%	
Target Compounds						Qvalue
2) 1,4-dioxane	2.390	88	826	0.09	ppm #	64
5) Phenol	6.246	94	16501	0.46	ppm #	79
6) bis(2-Chloroethyl)ether	6.379	93	2296	0.09	ppm	72
8) Nitrobenzene	7.852	77	4294	0.09	ppm	99
9) Naphthalene	9.227	128	8793	0.09	ppm	99
10) Hexachlorobutadiene	9.528	225	1723	0.09	ppm	98
11) 2-Methylnaphthalene	10.590	141	4403	0.09	ppm #	47
12) 1-Methylnaphthalene	10.795	141	5097	0.09	ppm	96
13) Hexachlorocyclopentadiene	10.959	237	3245	0.15	ppm	96
16) Acenaphthylene	12.380	152	8507	0.08	ppm	99
17) Acenaphthene	12.735	153	5518	0.09	ppm	95
18) 4,6-dinitro-2-methylph...	13.937	198	1936	0.21	ppm	94
19) Fluorene	13.767	166	6420	0.09	ppm #	65
22) Hexachlorobenzene	14.892	284	1922	0.09	ppm	96
23) Pentachlorophenol	15.309	266	3057	0.22	ppm	93
24) Phenanthrene	15.681	178	9388	0.08	ppm	91
25) Anthracene	15.789	178	8927	0.08	ppm	98
26) Fluoranthene	17.952	202	11965	0.09	ppm	95
27) Pyrene	18.339	202	11263	0.08	ppm	89
29) Benzo[a]anthracene	20.424	228	10381	0.08	ppm	87
30) Chrysene	20.486	228	10907	0.08	ppm	92
32) Benzo[b]fluoranthene	22.099	252	12198	0.10	ppm	94
33) Benzo[k]fluoranthene	22.137	252	10265	0.09	ppm	95
34) Benzo[a]pyrene	22.551	252	10658	0.09	ppm	95
35) Indeno[1,2,3-cd]pyrene	24.093	276	11590	0.09	ppm	96
36) Dibenz[a,h]anthracene	24.131	278	9176	0.08	ppm	74
37) Benzo[g,h,i]perylene	24.469	276	10142	0.09	ppm	93

SGS ACCUTEST JC21347

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2931\
Data File : 3m62185.D
Acq On : 13 Jun 2016 9:57 pm
Operator : juliusj
Sample : ic2931-0.1
Misc : op94419a,e3m2931
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 14 08:10:14 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2931SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Tue Jun 14 08:09:55 2016
Response via : Initial Calibration

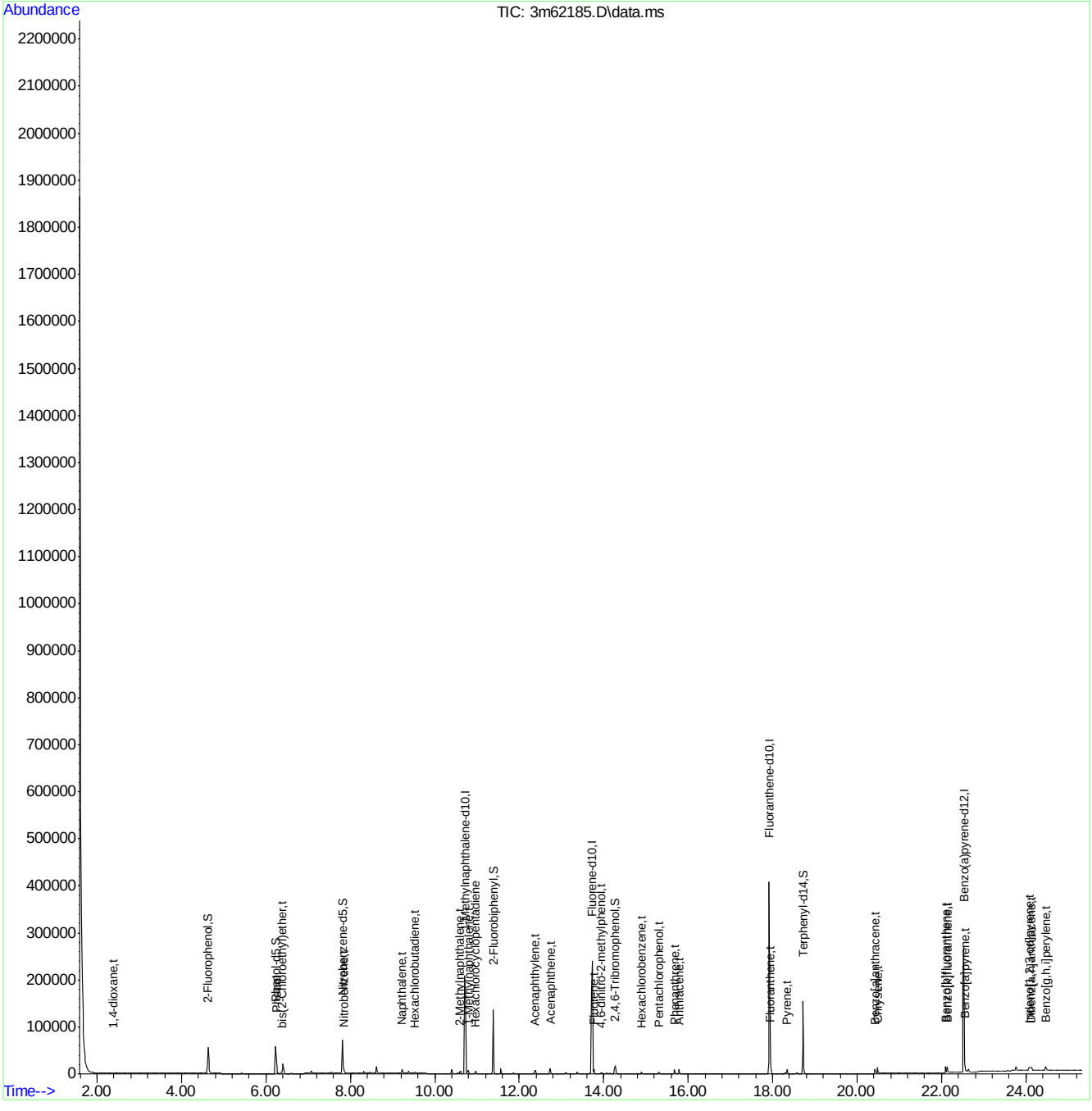
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2931\
Data File : 3m62185.D
Acq On : 13 Jun 2016 9:57 pm
Operator : juliusj
Sample : ic2931-0.1
Misc : op94419a,e3m2931
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 14 08:10:14 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2931SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Tue Jun 14 08:09:55 2016
Response via : Initial Calibration



SGS ACCUTEST JC21347

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2931\
Data File : 3m62186.D
Acq On : 13 Jun 2016 10:29 pm
Operator : juliusj
Sample : ic2931-0.05
Misc : op94419a,e3m2931
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 14 08:10:16 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2931SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Tue Jun 14 08:09:55 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	10.713	150	176942	4.00	ppm	-0.02
14) Fluorene-d10	13.730	176	277079	4.00	ppm	0.00
21) Fluoranthene-d10	17.921	212	520662	4.00	ppm	-0.02
31) Benzo(a)pyrene-d12	22.532	264	402379	4.00	ppm	0.00
System Monitoring Compounds						
3) 2-Fluorophenol	4.646	112	23479	0.93	ppm	0.02
Spiked Amount 50.000			Recovery	=	1.86%	
4) Phenol-d5	6.234	99	36677	0.92	ppm	0.00
Spiked Amount 50.000			Recovery	=	1.84%	
7) Nitrobenzene-d5	7.814	82	42313	0.88	ppm	0.00
Spiked Amount 50.000			Recovery	=	1.76%	
15) 2-Fluorobiphenyl	11.391	172	76597	0.90	ppm	0.00
Spiked Amount 50.000			Recovery	=	1.80%	
20) 2,4,6-Tribromophenol	14.257	330	7298	0.71	ppm	-0.02
Spiked Amount 50.000			Recovery	=	1.42%	
28) Terphenyl-d14	18.725	244	70963	0.83	ppm	0.00
Spiked Amount 50.000			Recovery	=	1.66%	
Target Compounds						Qvalue
2) 1,4-dioxane	2.390	88	635	0.06	ppm	80
5) Phenol	6.246	94	9672	0.23	ppm #	79
6) bis(2-Chloroethyl)ether	6.379	93	1401	0.05	ppm #	60
8) Nitrobenzene	7.852	77	2177	0.04	ppm	98
9) Naphthalene	9.227	128	4971	0.04	ppm	99
10) Hexachlorobutadiene	9.528	225	1031	0.05	ppm	98
11) 2-Methylnaphthalene	10.590	141	3197	0.06	ppm #	49
12) 1-Methylnaphthalene	10.795	141	3186	0.05	ppm	90
13) Hexachlorocyclopentadiene	10.959	237	1737	0.07	ppm	93
16) Acenaphthylene	12.380	152	4943	0.04	ppm	95
17) Acenaphthene	12.735	153	3199	0.04	ppm	94
18) 4,6-dinitro-2-methylph...	13.937	198	1273	0.12	ppm	90
19) Fluorene	13.767	166	3865	0.05	ppm #	67
22) Hexachlorobenzene	14.892	284	1096	0.04	ppm	91
23) Pentachlorophenol	15.309	266	2186	0.13	ppm	92
24) Phenanthrene	15.680	178	5395	0.04	ppm	92
25) Anthracene	15.789	178	5121	0.04	ppm	96
26) Fluoranthene	17.952	202	7457	0.05	ppm	95
27) Pyrene	18.339	202	6319	0.04	ppm	90
29) Benzo[a]anthracene	20.424	228	5835	0.04	ppm	89
30) Chrysene	20.486	228	6327	0.04	ppm	93
32) Benzo[b]fluoranthene	22.099	252	7506	0.05	ppm	92
33) Benzo[k]fluoranthene	22.137	252	5909	0.05	ppm	93
34) Benzo[a]pyrene	22.551	252	6133	0.05	ppm	91
35) Indeno[1,2,3-cd]pyrene	24.074	276	6821	0.05	ppm	94
36) Dibenz[a,h]anthracene	24.112	278	5362	0.04	ppm	77
37) Benzo[g,h,i]perylene	24.469	276	5829	0.05	ppm	93

SGS ACCUTEST JC21347

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2931\
Data File : 3m62186.D
Acq On : 13 Jun 2016 10:29 pm
Operator : juliusj
Sample : ic2931-0.05
Misc : op94419a,e3m2931
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 14 08:10:16 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2931SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Tue Jun 14 08:09:55 2016
Response via : Initial Calibration

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

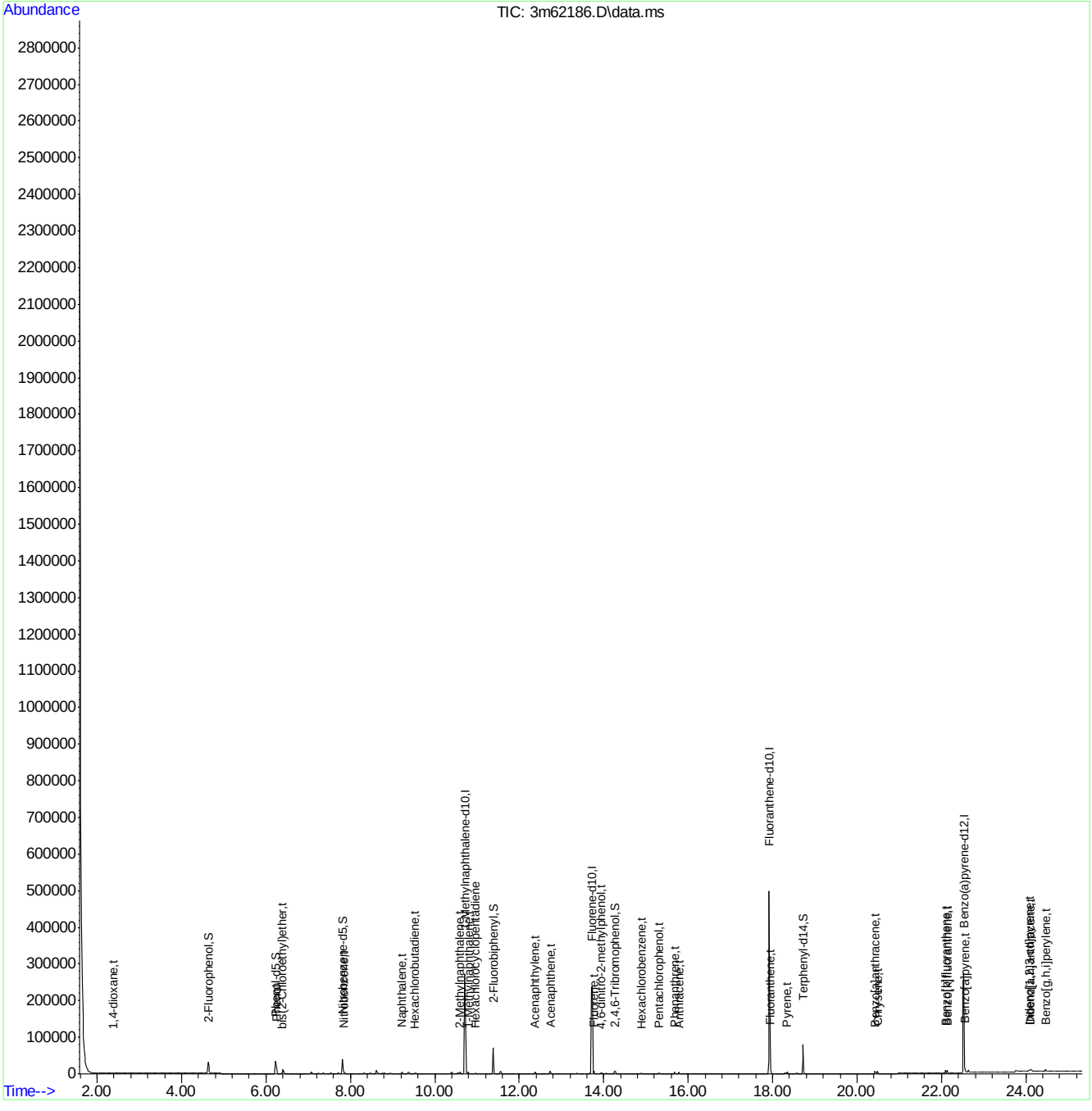
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC21347

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2931\
Data File : 3m62186.D
Acq On : 13 Jun 2016 10:29 pm
Operator : juliusj
Sample : ic2931-0.05
Misc : op94419a,e3m2931
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 14 08:10:16 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2931SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Tue Jun 14 08:09:55 2016
Response via : Initial Calibration



M3M2931SIM.M Tue Jun 14 08:37:50 2016 RPT1 Page: 3

Manual Integrations APPROVED (compounds with "m" flag)
Nina Pandya
06/14/16 17:05

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2931\
Data File : 3m62187.D
Acq On : 13 Jun 2016 11:01 pm
Operator : juliusj
Sample : ic2931-0.02
Misc : op94419a,e3m2931
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 14 08:38:16 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2931SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Tue Jun 14 08:09:55 2016
Response via : Initial Calibration

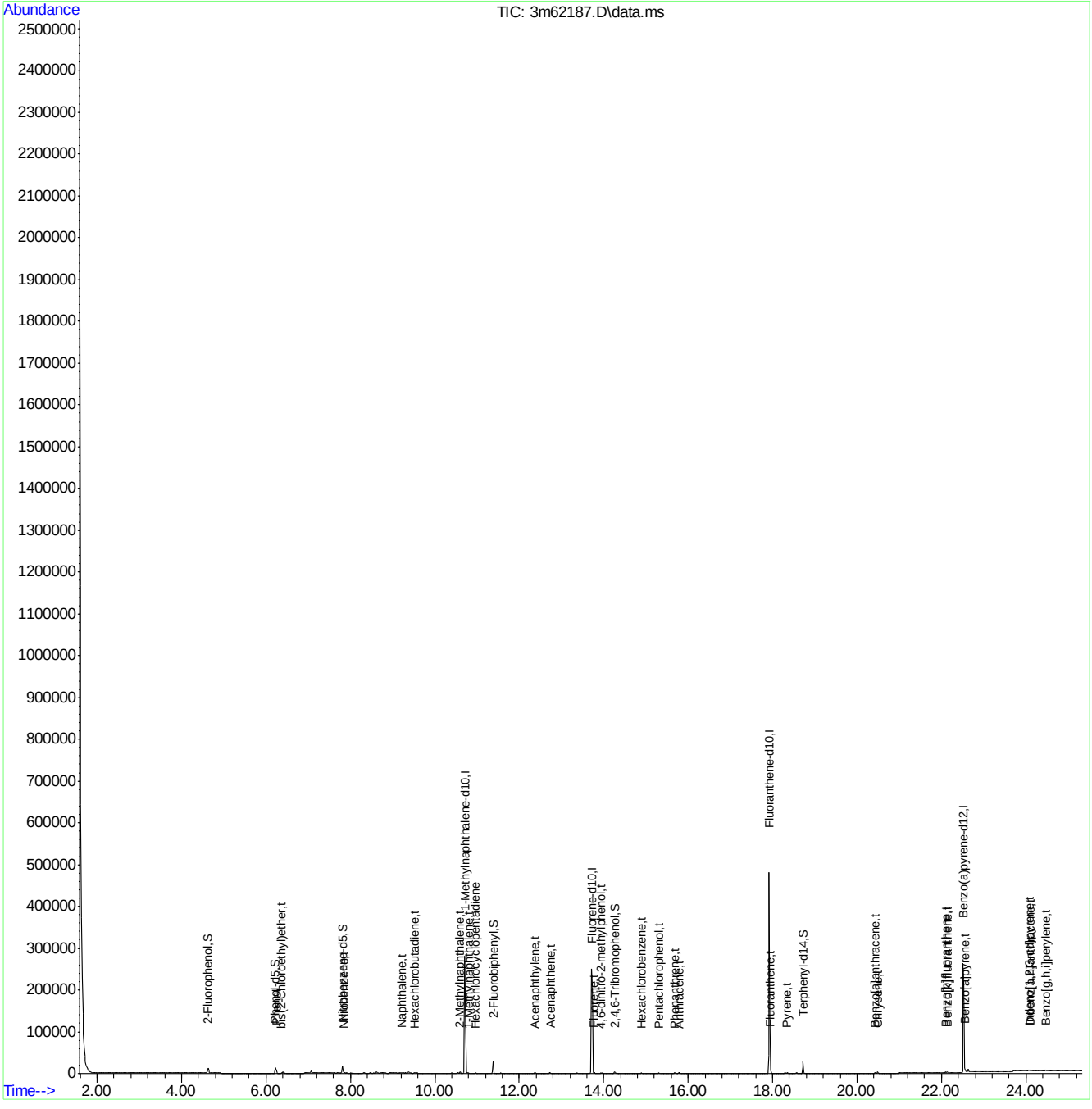
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	10.713	150	171697	4.00	ppm	-0.02
14) Fluorene-d10	13.730	176	265157	4.00	ppm	0.00
21) Fluoranthene-d10	17.921	212	482224	4.00	ppm	-0.02
31) Benzo(a)pyrene-d12	22.513	264	392282	4.00	ppm	-0.02
System Monitoring Compounds						
3) 2-Fluorophenol	4.631	112	8830	0.36	ppm	0.00
Spiked Amount 50.000			Recovery	=	0.72%	
4) Phenol-d5	6.221	99	13583	0.35	ppm	-0.01
Spiked Amount 50.000			Recovery	=	0.70%	
7) Nitrobenzene-d5	7.814	82	15967	0.34	ppm	0.00
Spiked Amount 50.000			Recovery	=	0.68%	
15) 2-Fluorobiphenyl	11.391	172	28662	0.35	ppm	0.00
Spiked Amount 50.000			Recovery	=	0.70%	
20) 2,4,6-Tribromophenol	14.257	330	2600	0.26	ppm	-0.02
Spiked Amount 50.000			Recovery	=	0.52%	
28) Terphenyl-d14	18.725	244	26259	0.33	ppm	0.00
Spiked Amount 50.000			Recovery	=	0.66%	
Target Compounds						Qvalue
5) Phenol	6.246	94	3622	0.09	ppm #	71
6) bis(2-Chloroethyl)ether	6.367	93	523	0.02	ppm #	43
8) Nitrobenzene	7.852	77	730	0.01	ppm	97
9) Naphthalene	9.227	128	1907	0.02	ppm	98
10) Hexachlorobutadiene	9.528	225	415	0.02	ppm	96
11) 2-Methylnaphthalene	10.590	141	1831	0.03	ppm #	51
12) 1-Methylnaphthalene	10.795	141	1157	0.02	ppm	93
13) Hexachlorocyclopentadiene	10.959	237	570	0.02	ppm	96
16) Acenaphthylene	12.380	152	1861	0.02	ppm	96
17) Acenaphthene	12.735	153	1231	0.02	ppm	90
18) 4,6-dinitro-2-methylph...	13.937	198	657	0.07	ppm	90
19) Fluorene	13.767	166	1513	0.02	ppm	69
22) Hexachlorobenzene	14.892	284	427	0.02	ppm	88
23) Pentachlorophenol	15.309	266	1271	0.08	ppm	93
24) Phenanthrene	15.680	178	2127	0.02	ppm	91
25) Anthracene	15.789	178	1954	0.01	ppm	95
26) Fluoranthene	17.952	202	3195	0.02	ppm	94
27) Pyrene	18.338	202	2447	0.02	ppm	89
29) Benzo[a]anthracene	20.424	228	2218	0.01	ppm	87
30) Chrysene	20.486	228	2455	0.02	ppm	90
32) Benzo[b]fluoranthene	22.099	252	2849	0.02	ppm	93
33) Benzo[k]fluoranthene	22.137	252	2088	0.02	ppm	91
34) Benzo[a]pyrene	22.551	252	2359m	0.02	ppm	
35) Indeno[1,2,3-cd]pyrene	24.074	276	2665	0.02	ppm	92
36) Dibenz[a,h]anthracene	24.112	278	2095	0.02	ppm	77
37) Benzo[g,h,i]perylene	24.469	276	2360	0.02	ppm	93

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2931\
Data File : 3m62187.D
Acq On : 13 Jun 2016 11:01 pm
Operator : juliusj
Sample : ic2931-0.02
Misc : op94419a,e3m2931
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 14 08:38:16 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2931SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Tue Jun 14 08:09:55 2016
Response via : Initial Calibration



M3M2931SIM.M Tue Jun 14 08:38:28 2016 RPT1 Page: 2

Manual Integration Approval Summary

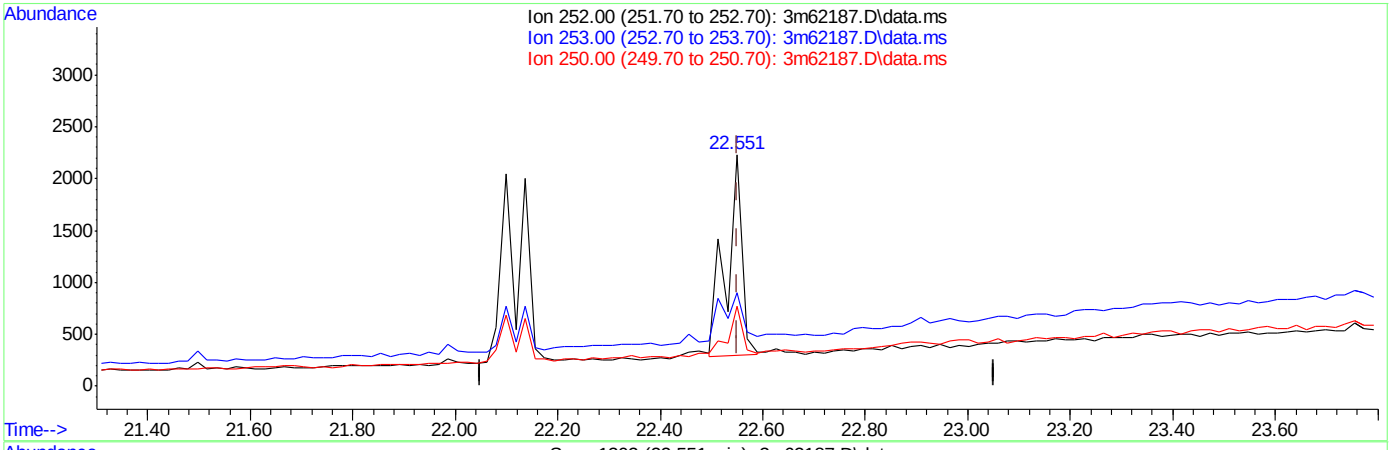
Sample Number:	E3M2931-IC2931	**Method:**	SW846 8270D BY SIM
Lab FileID:	3M62187.D	**Analyst approved:**	06/14/16 12:39 Linsey Kirschmann
Injection Time:	06/13/16 23:01	**Supervisor approved:**	06/14/16 17:05 Nina Pandya

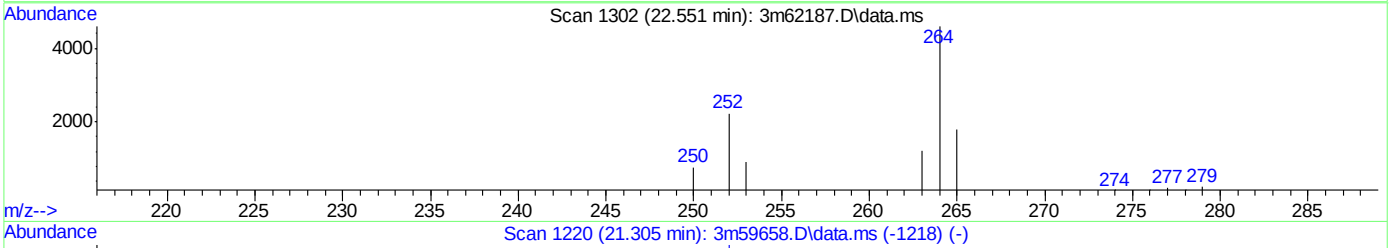
Parameter	CAS	Sig#	R.T. (min.)	Reason
Benzo(a)pyrene	50-32-8		22.55	Poor instrument integration

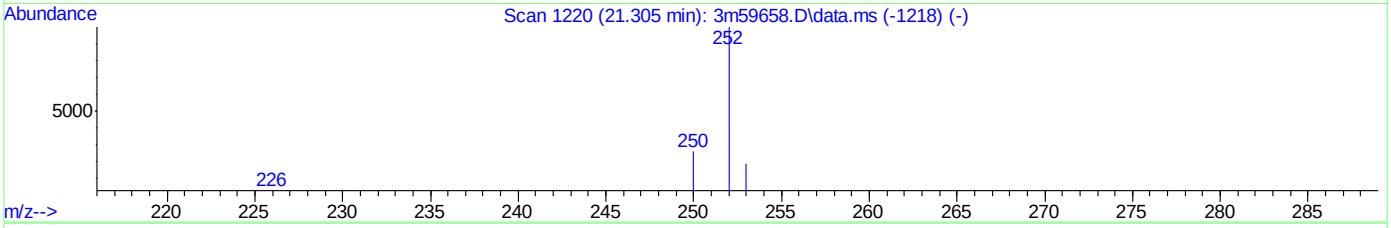
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E3M2931\
Data File : 3m62187.D
Acq On : 13 Jun 2016 11:01 pm
Operator : juliusj
Sample : ic2931-0.02
Misc : op94419a,e3m2931
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 14 08:10:18 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2931SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Tue Jun 14 08:09:55 2016
Response via : Initial Calibration







TIC: 3m62187.D\data.ms

(34) Benzo[a]pyrene (t)

22.551min (-0.000) 0.03ppm

response 4177

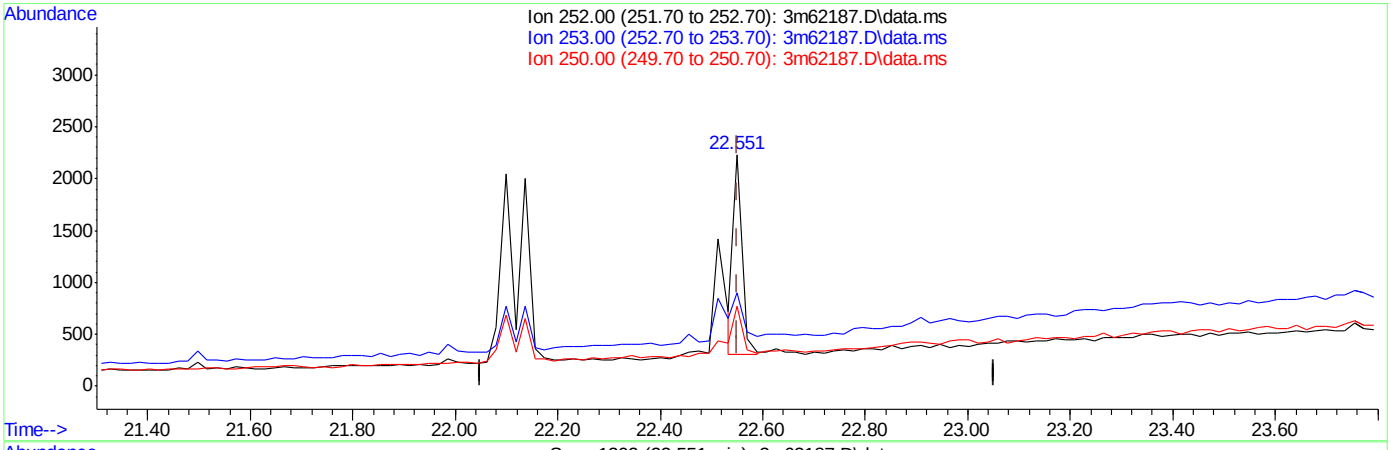
Ion	Exp%	Act%
252.00	100	100
253.00	19.20	23.24
250.00	29.60	23.76
0.00	0.00	0.00

SGS ACCUTEST JC21347

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E3M2931\
Data File : 3m62187.D
Acq On : 13 Jun 2016 11:01 pm
Operator : juliusj
Sample : ic2931-0.02
Misc : op94419a,e3m2931
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 14 08:10:18 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2931SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Tue Jun 14 08:09:55 2016
Response via : Initial Calibration



(34) Benzo[a]pyrene (t)

22.551min (-0.000) 0.02ppm m

response 2359

Ion	Exp%	Act%
252.00	100	100
253.00	19.20	40.44
250.00	29.60	34.39
0.00	0.00	0.00

3M62188.D

Manual Integrations APPROVED (compounds with "m" flag)

Nina Pandya 06/14/16 17:05

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2931\
Data File : 3m62188.D
Acq On : 13 Jun 2016 11:33 pm
Operator : juliusj
Sample : ic2931-0.01
Misc : op94419a,e3m2931
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 14 08:39:10 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2931SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Tue Jun 14 08:09:55 2016
Response via : Initial Calibration

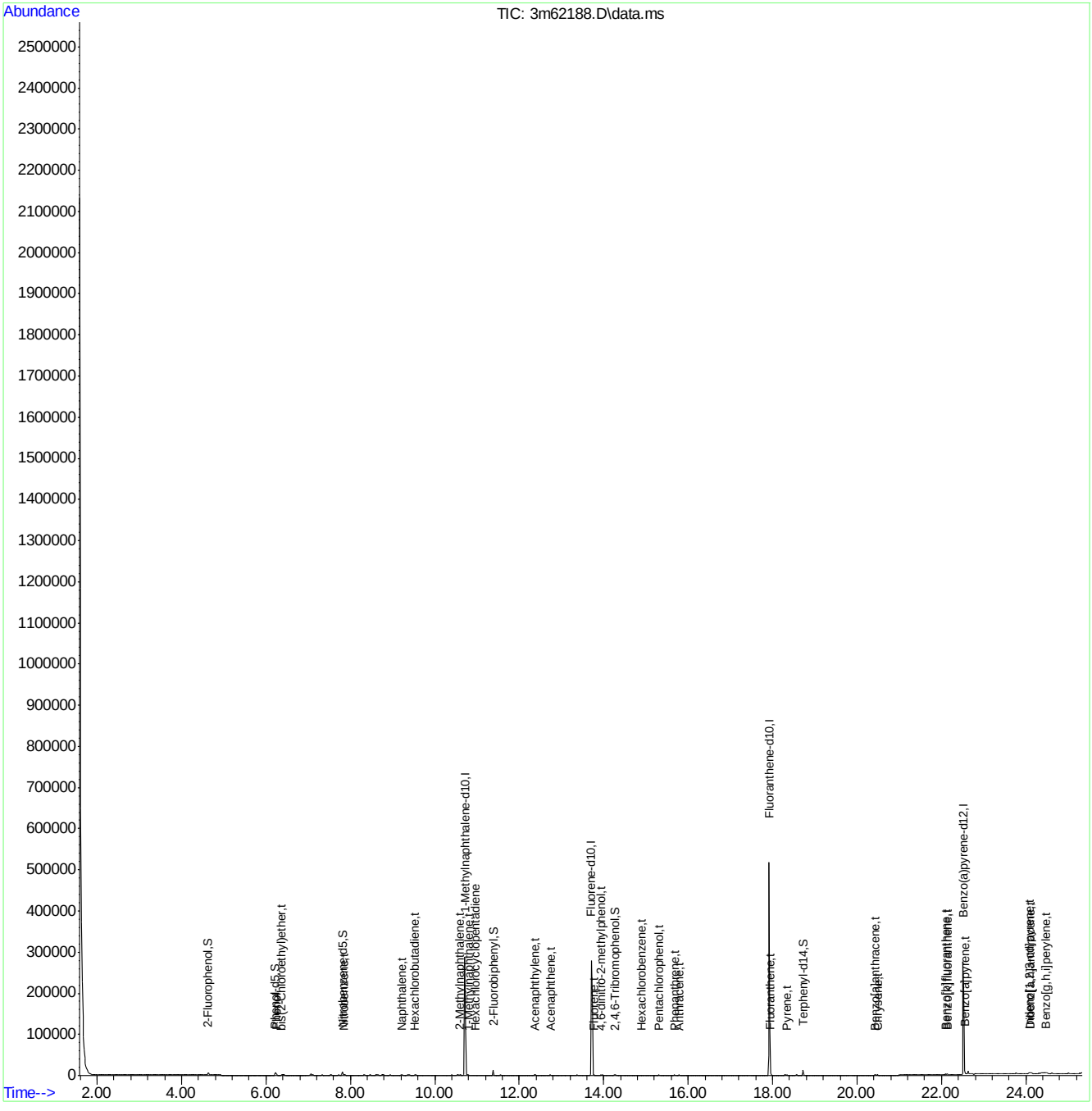
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	10.713	150	173319	4.00	ppm	-0.02
14) Fluorene-d10	13.711	176	266874	4.00	ppm	-0.02
21) Fluoranthene-d10	17.921	212	495910	4.00	ppm	-0.02
31) Benzo(a)pyrene-d12	22.513	264	390075	4.00	ppm	-0.02
System Monitoring Compounds						
3) 2-Fluorophenol	4.631	112	4341	0.17	ppm	0.00
Spiked Amount 50.000			Recovery	=	0.34%	
4) Phenol-d5	6.221	99	6797	0.17	ppm	-0.01
Spiked Amount 50.000			Recovery	=	0.34%	
7) Nitrobenzene-d5	7.814	82	7629	0.16	ppm	0.00
Spiked Amount 50.000			Recovery	=	0.32%	
15) 2-Fluorobiphenyl	11.391	172	13791	0.17	ppm	0.00
Spiked Amount 50.000			Recovery	=	0.34%	
20) 2,4,6-Tribromophenol	14.257	330	1246	0.13	ppm	-0.02
Spiked Amount 50.000			Recovery	=	0.26%	
28) Terphenyl-d14	18.725	244	12650	0.16	ppm	0.00
Spiked Amount 50.000			Recovery	=	0.32%	
Target Compounds						Qvalue
5) Phenol	6.246	94	1818	0.04	ppm #	71
6) bis(2-Chloroethyl)ether	6.367	93	252	0.01	ppm #	43
8) Nitrobenzene	7.852	77	585	0.01	ppm	95
9) Naphthalene	9.227	128	983	0.01	ppm	97
10) Hexachlorobutadiene	9.528	225	208	0.01	ppm	89
11) 2-Methylnaphthalene	10.590	141	1428	0.03	ppm #	57
12) 1-Methylnaphthalene	10.795	141	534	0.01	ppm	81
13) Hexachlorocyclopentadiene	10.959	237	236	0.01	ppm	93
16) Acenaphthylene	12.380	152	960	0.01	ppm	94
17) Acenaphthene	12.735	153	639	0.01	ppm	94
18) 4,6-dinitro-2-methylph...	13.937	198	521	0.05	ppm	95
19) Fluorene	13.767	166	760m	0.01	ppm	
22) Hexachlorobenzene	14.892	284	240	0.01	ppm	88
23) Pentachlorophenol	15.309	266	964	0.06	ppm	88
24) Phenanthrene	15.680	178	1096	0.01	ppm	91
25) Anthracene	15.789	178	1008	0.01	ppm	94
26) Fluoranthene	17.952	202	1999	0.01	ppm	93
27) Pyrene	18.338	202	1253	0.01	ppm	91
29) Benzo[a]anthracene	20.424	228	1203	0.01	ppm	93
30) Chrysene	20.486	228	1286	0.01	ppm	91
32) Benzo[b]fluoranthene	22.099	252	1508	0.01	ppm	87
33) Benzo[k]fluoranthene	22.137	252	1062	0.01	ppm	90
34) Benzo[a]pyrene	22.551	252	1164m	0.01	ppm	
35) Indeno[1,2,3-cd]pyrene	24.074	276	1558	0.01	ppm	94
36) Dibenz[a,h]anthracene	24.112	278	1173	0.01	ppm	85
37) Benzo[g,h,i]perylene	24.469	276	1288	0.01	ppm	93

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2931\
Data File : 3m62188.D
Acq On : 13 Jun 2016 11:33 pm
Operator : juliusj
Sample : ic2931-0.01
Misc : op94419a,e3m2931
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 14 08:39:10 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2931SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Tue Jun 14 08:09:55 2016
Response via : Initial Calibration



SGS ACCUTEST JC21347

Manual Integration Approval Summary

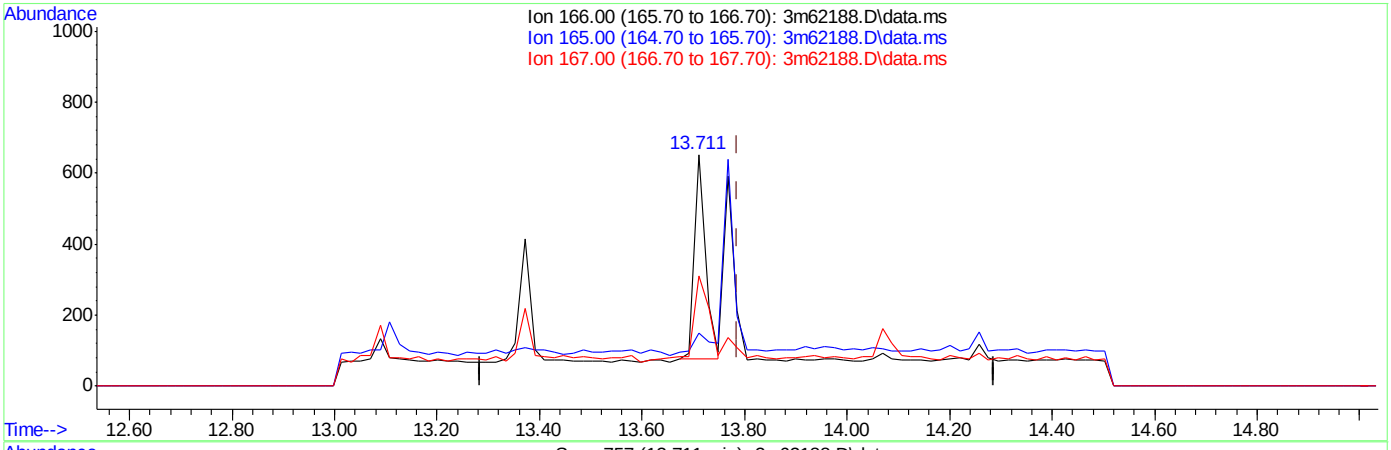
Sample Number:	E3M2931-IC2931	**Method:**	SW846 8270D BY SIM
Lab FileID:	3M62188.D	**Analyst approved:**	06/14/16 12:39 Linsey Kirschmann
Injection Time:	06/13/16 23:33	**Supervisor approved:**	06/14/16 17:05 Nina Pandya

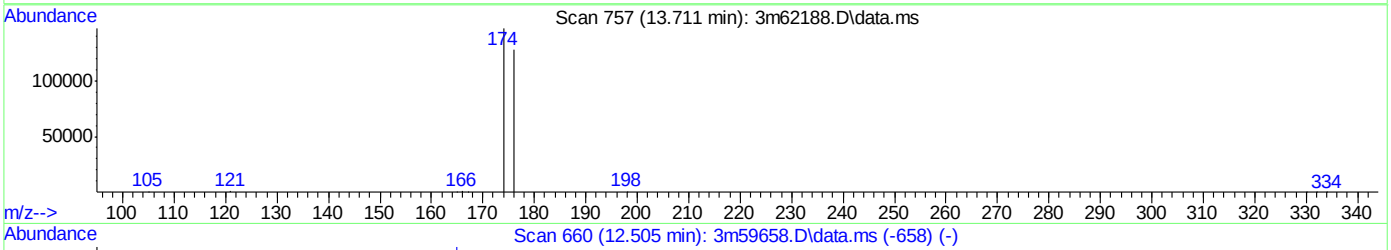
Parameter	CAS	Sig#	R.T. (min.)	Reason
Fluorene	86-73-7		13.77	Poor instrument integration
Benzo(a)pyrene	50-32-8		22.55	Poor instrument integration

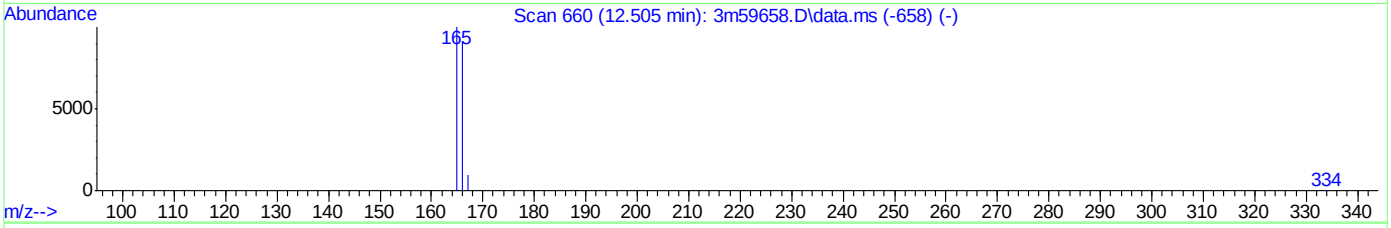
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E3M2931\
Data File : 3m62188.D
Acq On : 13 Jun 2016 11:33 pm
Operator : juliusj
Sample : ic2931-0.01
Misc : op94419a,e3m2931
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 14 08:10:20 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2931SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Tue Jun 14 08:09:55 2016
Response via : Initial Calibration







TIC: 3m62188.D\data.ms

(19) Fluorene (t)

13.711min (-0.076) 0.01ppm

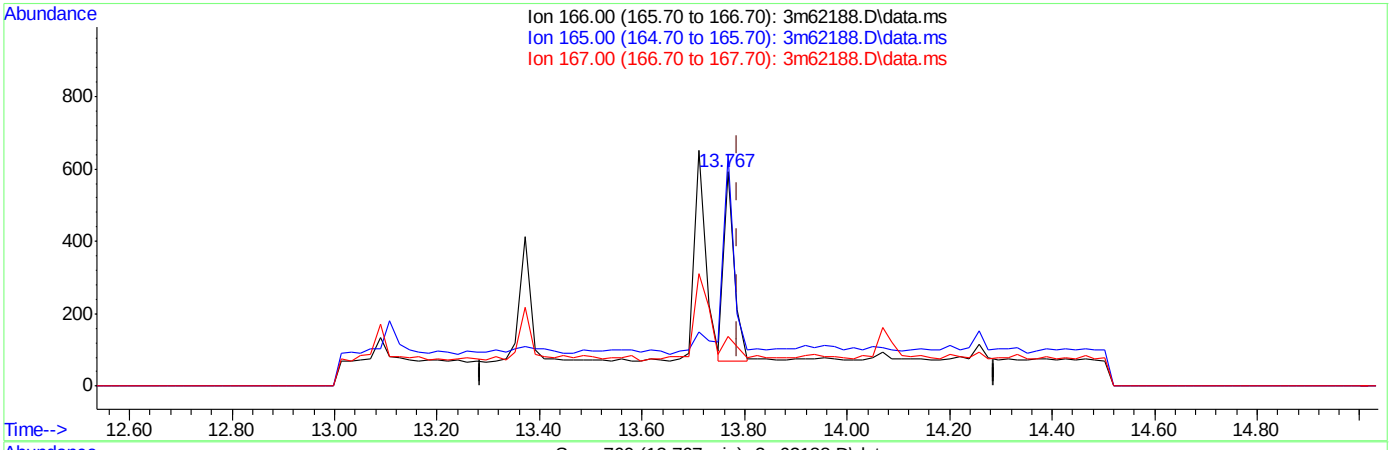
response 858

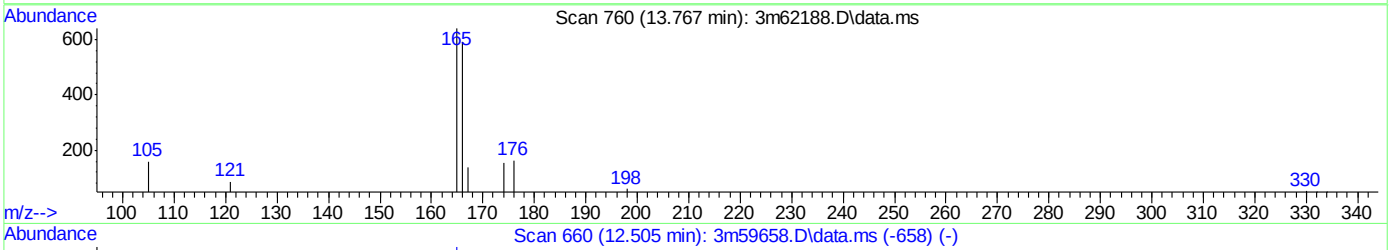
Ion	Exp%	Act%
166.00	100	100
165.00	74.70	7.52#
167.00	15.90	39.88
0.00	0.00	0.00

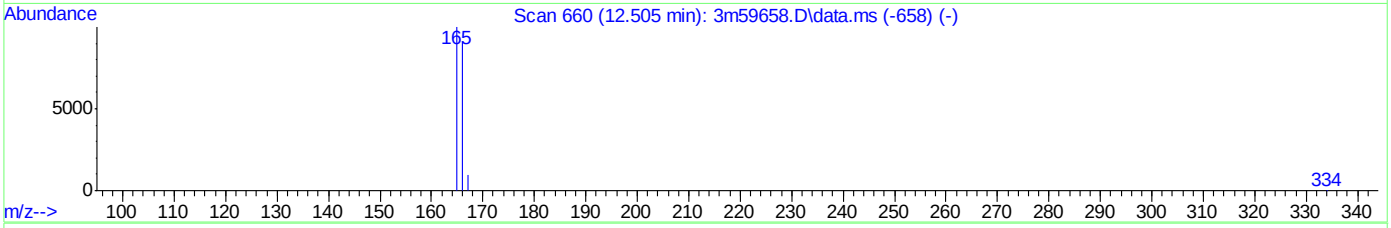
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E3M2931\
Data File : 3m62188.D
Acq On : 13 Jun 2016 11:33 pm
Operator : juliusj
Sample : ic2931-0.01
Misc : op94419a,e3m2931
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 14 08:10:20 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2931SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Tue Jun 14 08:09:55 2016
Response via : Initial Calibration







TIC: 3m62188.D\data.ms

(19) Fluorene (t)

13.767min (-0.019) 0.01ppm m

response 760

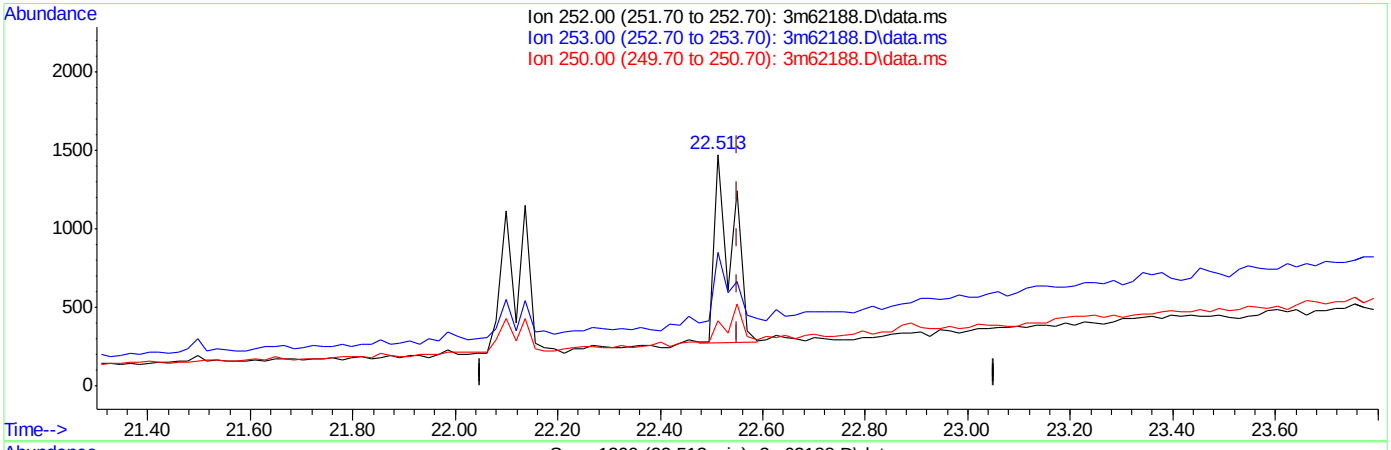
Ion	Exp%	Act%
166.00	100	100
165.00	74.70	108.11#
167.00	15.90	23.14
0.00	0.00	0.00

SGS ACCUTEST JC21347

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E3M2931\
Data File : 3m62188.D
Acq On : 13 Jun 2016 11:33 pm
Operator : juliusj
Sample : ic2931-0.01
Misc : op94419a,e3m2931
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 14 08:10:20 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2931SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Tue Jun 14 08:09:55 2016
Response via : Initial Calibration



(34) Benzo[a]pyrene (t)

22.513min (-0.038) 0.02ppm

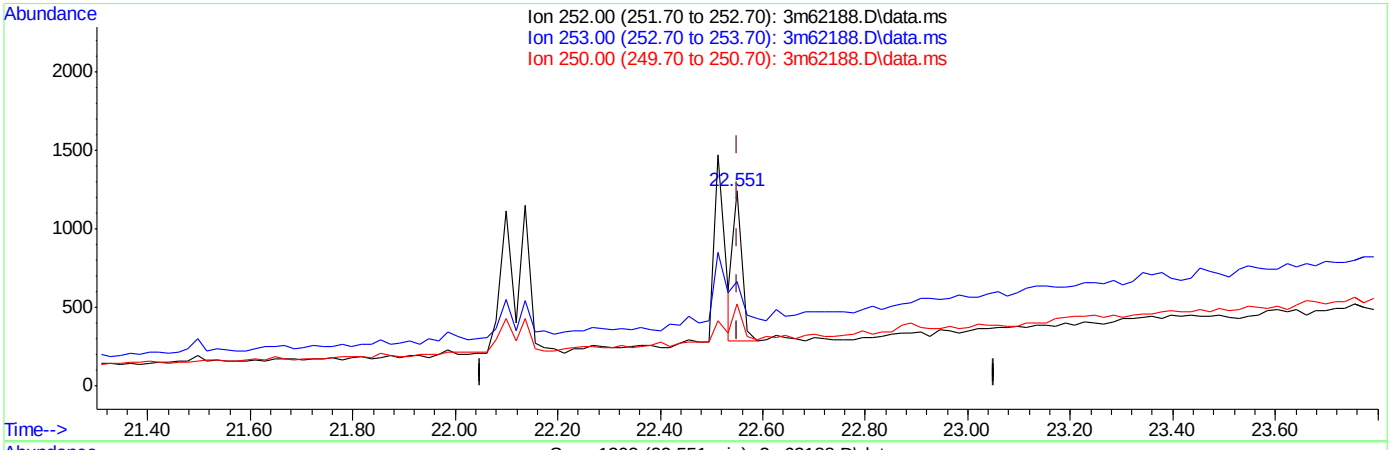
response 2932

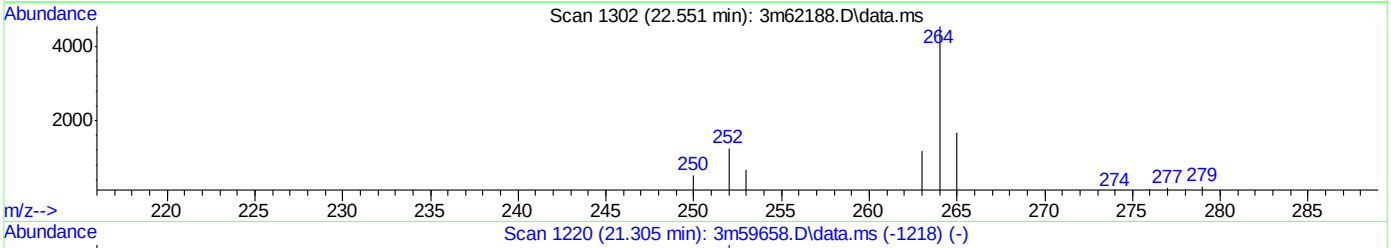
Ion	Exp%	Act%
252.00	100	100
253.00	19.20	36.41
250.00	29.60	10.50
0.00	0.00	0.00

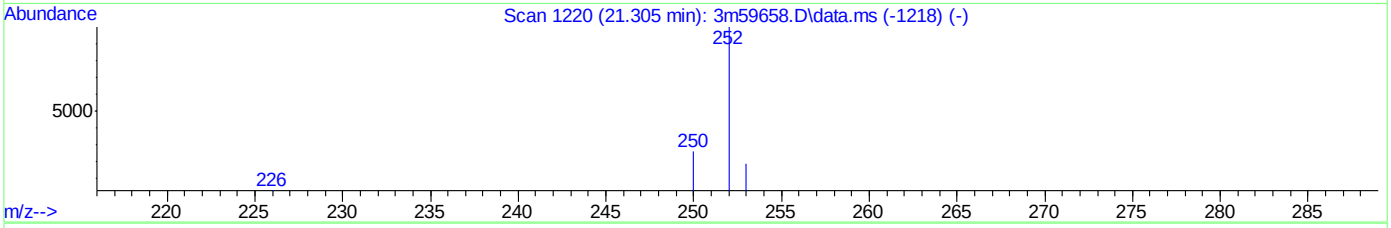
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E3M2931\
Data File : 3m62188.D
Acq On : 13 Jun 2016 11:33 pm
Operator : juliusj
Sample : ic2931-0.01
Misc : op94419a,e3m2931
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 14 08:10:20 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2931SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Tue Jun 14 08:09:55 2016
Response via : Initial Calibration







TIC: 3m62188.D\data.ms

(34) Benzo[a]pyrene (t)

22.551min (-0.000) 0.01ppm m

response 1164

Ion	Exp%	Act%
252.00	100	100
253.00	19.20	53.57#
250.00	29.60	42.17
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2931\
Data File : 3m62189.D
Acq On : 14 Jun 2016 12:05 am
Operator : juliusj
Sample : ic2931-5
Misc : op94419a,e3m2931
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 14 08:10:22 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2931SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Tue Jun 14 08:09:55 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	10.713	150	183650	4.00	ppm	-0.02
14) Fluorene-d10	13.730	176	319071	4.00	ppm	0.00
21) Fluoranthene-d10	17.921	212	519852	4.00	ppm	-0.02
31) Benzo(a)pyrene-d12	22.513	264	411489	4.00	ppm	-0.02
System Monitoring Compounds						
3) 2-Fluorophenol	4.631	112	2317838	88.10	ppm	0.00
Spiked Amount 50.000			Recovery = 176.20%			
4) Phenol-d5	6.246	99	3709567	90.02	ppm	0.01
Spiked Amount 50.000			Recovery = 180.04%			
7) Nitrobenzene-d5	7.815	82	3939601	79.34	ppm	0.00
Spiked Amount 50.000			Recovery = 158.68%			
15) 2-Fluorobiphenyl	11.391	172	7477780	76.46	ppm	0.00
Spiked Amount 50.000			Recovery = 152.92%			
20) 2,4,6-Tribromophenol	14.276	330	950089	80.16	ppm	0.00
Spiked Amount 50.000			Recovery = 160.32%			
28) Terphenyl-d14	18.740	244	7218962	84.51	ppm	0.02
Spiked Amount 50.000			Recovery = 169.02%			
Target Compounds						Qvalue
2) 1,4-dioxane	2.375	88	45774	4.28	ppm	84
5) Phenol	6.258	94	979484	22.73	ppm #	74
6) bis(2-Chloroethyl)ether	6.379	93	131537	4.21	ppm	86
8) Nitrobenzene	7.852	77	240511	4.09	ppm	92
9) Naphthalene	9.227	128	502397	4.30	ppm	99
10) Hexachlorobutadiene	9.528	225	104043	4.51	ppm	94
11) 2-Methylnaphthalene	10.590	141	273860	4.61	ppm #	52
12) 1-Methylnaphthalene	10.795	141	280700	4.11	ppm	88
13) Hexachlorocyclopentadiene	10.959	237	264871	10.35	ppm	95
16) Acenaphthylene	12.380	152	538515	4.04	ppm	97
17) Acenaphthene	12.735	153	348247	4.13	ppm	90
18) 4,6-dinitro-2-methylph...	13.937	198	344285	28.43	ppm	82
19) Fluorene	13.767	166	386561	4.00	ppm #	64
22) Hexachlorobenzene	14.892	284	111213	4.18	ppm	90
23) Pentachlorophenol	15.310	266	356401	21.40	ppm	87
24) Phenanthrene	15.681	178	584562	4.17	ppm	91
25) Anthracene	15.789	178	589391	4.18	ppm	96
26) Fluoranthene	17.952	202	676246	4.10	ppm	95
27) Pyrene	18.339	202	693885	4.15	ppm	90
29) Benzo[a]anthracene	20.424	228	639218	3.94	ppm	88
30) Chrysene	20.486	228	670111	4.26	ppm	93
32) Benzo[b]fluoranthene	22.099	252	700619	4.86	ppm	93
33) Benzo[k]fluoranthene	22.137	252	618618	4.61	ppm	95
34) Benzo[a]pyrene	22.551	252	641056	4.76	ppm	92
35) Indeno[1,2,3-cd]pyrene	24.093	276	672043	4.57	ppm	95
36) Dibenz[a,h]anthracene	24.112	278	522616	3.99	ppm	82
37) Benzo[g,h,i]perylene	24.469	276	575903	4.52	ppm	93

SGS ACCUTEST JC21347

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2931\
Data File : 3m62189.D
Acq On : 14 Jun 2016 12:05 am
Operator : juliusj
Sample : ic2931-5
Misc : op94419a,e3m2931
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 14 08:10:22 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2931SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Tue Jun 14 08:09:55 2016
Response via : Initial Calibration

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

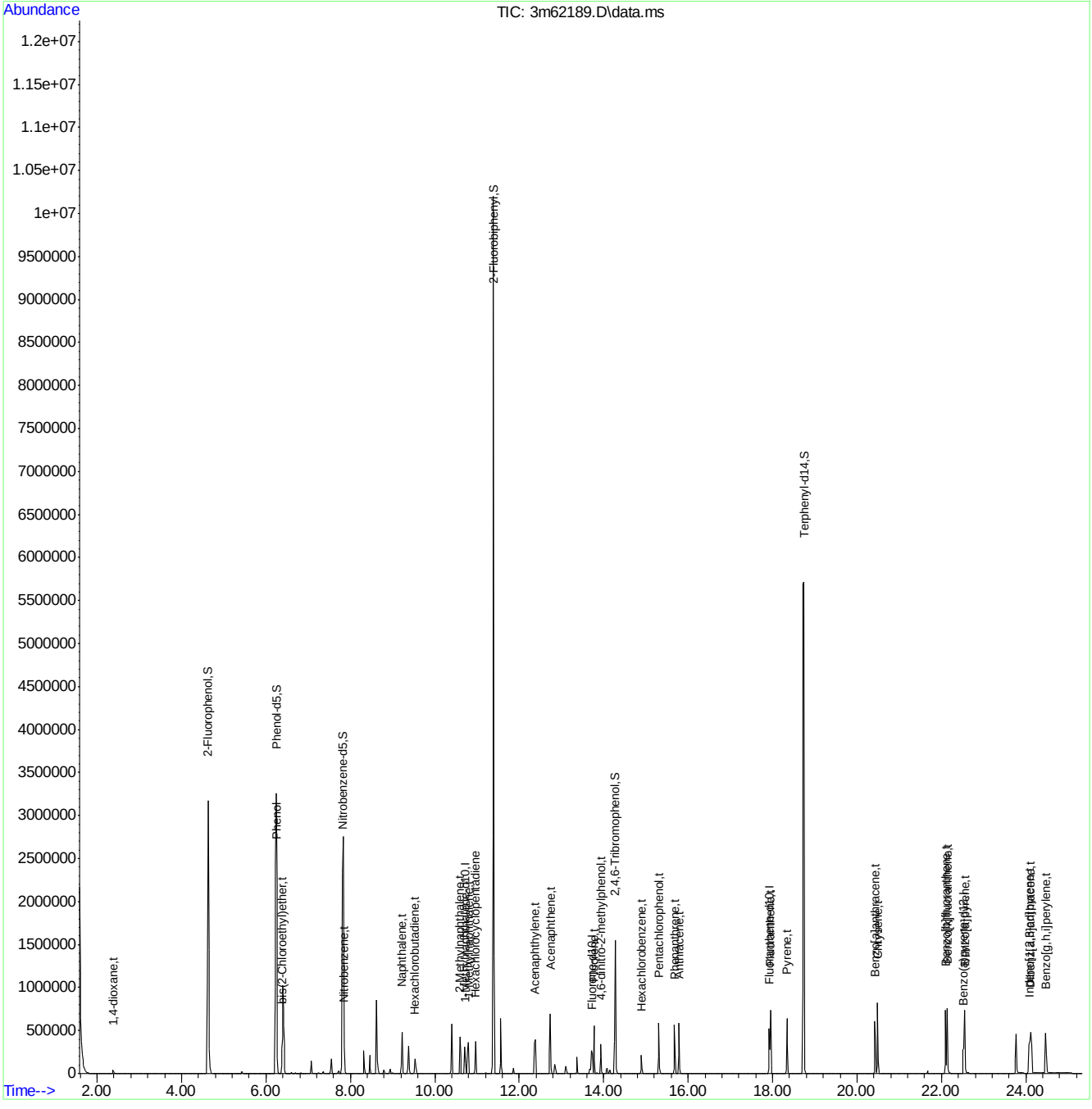
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC21347

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2931\
Data File : 3m62189.D
Acq On : 14 Jun 2016 12:05 am
Operator : juliusj
Sample : ic2931-5
Misc : op94419a,e3m2931
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 14 08:10:22 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2931SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Tue Jun 14 08:09:55 2016
Response via : Initial Calibration



SGS ACCUTEST JC21347

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2931\
Data File : 3m62190.D
Acq On : 14 Jun 2016 12:37 am
Operator : juliusj
Sample : ic2931-2.5
Misc : op94419a,e3m2931
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jun 14 08:10:24 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2931SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Tue Jun 14 08:09:55 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	10.713	150	190984	4.00	ppm	-0.02
14) Fluorene-d10	13.711	176	290593	4.00	ppm	-0.02
21) Fluoranthene-d10	17.921	212	522399	4.00	ppm	-0.02
31) Benzo(a)pyrene-d12	22.513	264	419668	4.00	ppm	-0.02
System Monitoring Compounds						
3) 2-Fluorophenol	4.631	112	1210445	44.24	ppm	0.00
Spiked Amount 50.000			Recovery = 88.48%			
4) Phenol-d5	6.234	99	1897451	44.28	ppm	0.00
Spiked Amount 50.000			Recovery = 88.56%			
7) Nitrobenzene-d5	7.814	82	2136433	41.37	ppm	0.00
Spiked Amount 50.000			Recovery = 82.74%			
15) 2-Fluorobiphenyl	11.390	172	4060567	45.59	ppm	0.00
Spiked Amount 50.000			Recovery = 91.18%			
20) 2,4,6-Tribromophenol	14.276	330	441147	40.87	ppm	0.00
Spiked Amount 50.000			Recovery = 81.74%			
28) Terphenyl-d14	18.725	244	3613534	42.10	ppm	0.00
Spiked Amount 50.000			Recovery = 84.20%			
Target Compounds						Qvalue
2) 1,4-dioxane	2.375	88	22703	2.04	ppm #	47
5) Phenol	6.246	94	489084	10.91	ppm #	79
6) bis(2-Chloroethyl)ether	6.379	93	68112	2.10	ppm	75
8) Nitrobenzene	7.852	77	126324	2.06	ppm	94
9) Naphthalene	9.227	128	249060	2.05	ppm	98
10) Hexachlorobutadiene	9.528	225	53904	2.25	ppm	93
11) 2-Methylnaphthalene	10.590	141	141892	2.30	ppm #	53
12) 1-Methylnaphthalene	10.795	141	142163	2.00	ppm	86
13) Hexachlorocyclopentadiene	10.959	237	129023	4.85	ppm	91
16) Acenaphthylene	12.364	152	269915	2.22	ppm	89
17) Acenaphthene	12.735	153	173521	2.26	ppm	88
18) 4,6-dinitro-2-methylph...	13.937	198	138000	12.51	ppm	67
19) Fluorene	13.767	166	207644	2.36	ppm	72
22) Hexachlorobenzene	14.892	284	56198	2.10	ppm	87
23) Pentachlorophenol	15.309	266	164527	9.83	ppm	82
24) Phenanthrene	15.680	178	303733	2.15	ppm	93
25) Anthracene	15.789	178	296706	2.09	ppm	94
26) Fluoranthene	17.952	202	349656	2.11	ppm	93
27) Pyrene	18.338	202	356125	2.12	ppm	92
29) Benzo[a]anthracene	20.424	228	327027	2.01	ppm	91
30) Chrysene	20.486	228	337112	2.13	ppm	90
32) Benzo[b]fluoranthene	22.099	252	375279	2.55	ppm	88
33) Benzo[k]fluoranthene	22.137	252	273067	2.00	ppm	88
34) Benzo[a]pyrene	22.550	252	317598	2.31	ppm	89
35) Indeno[1,2,3-cd]pyrene	24.074	276	352732	2.35	ppm	94
36) Dibenz[a,h]anthracene	24.112	278	286825	2.15	ppm	76
37) Benzo[g,h,i]perylene	24.469	276	297458	2.29	ppm	94

SGS ACCUTEST JC21347

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2931\
Data File : 3m62190.D
Acq On : 14 Jun 2016 12:37 am
Operator : juliusj
Sample : ic2931-2.5
Misc : op94419a,e3m2931
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jun 14 08:10:24 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2931SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Tue Jun 14 08:09:55 2016
Response via : Initial Calibration

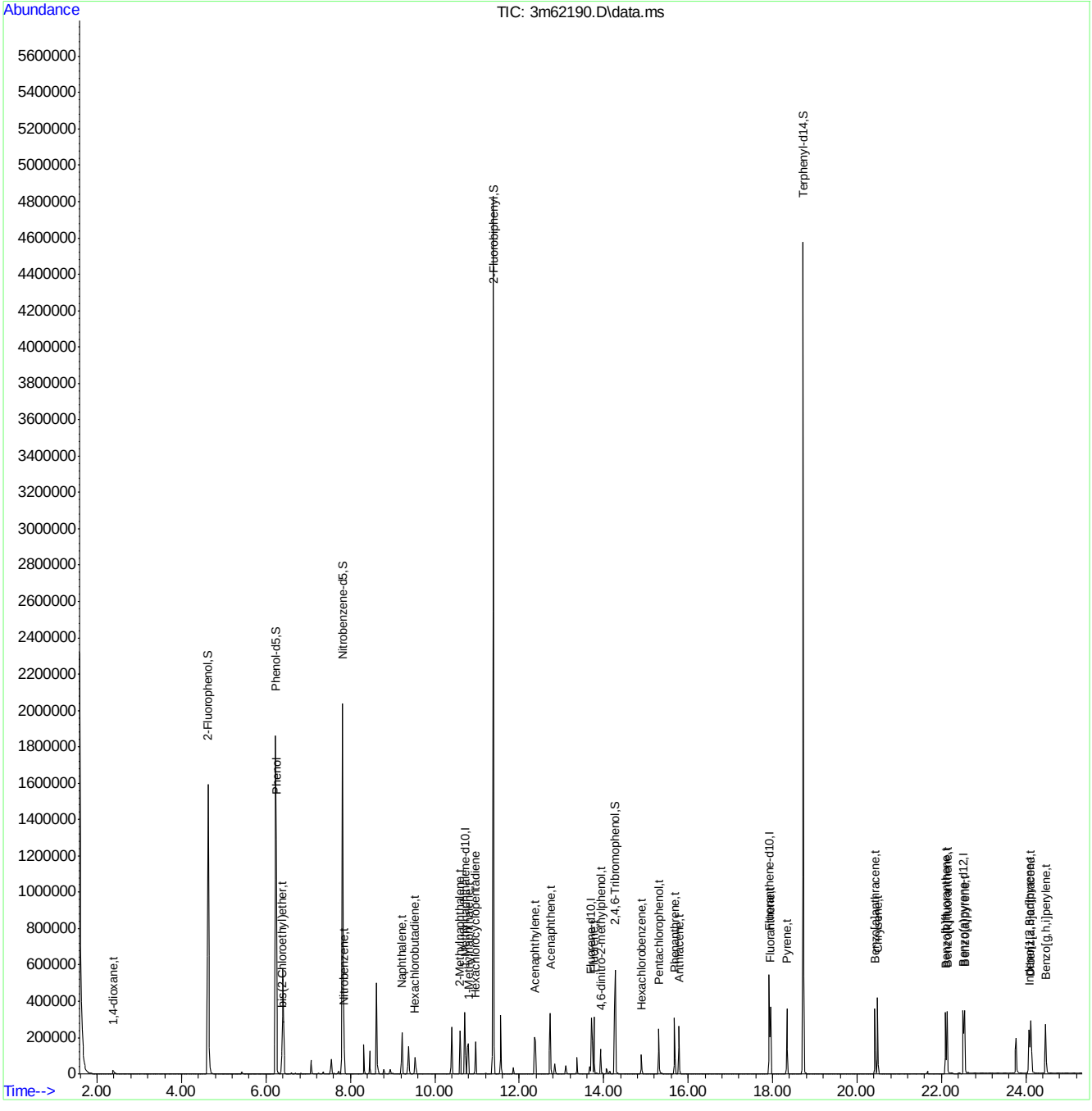
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2931\
Data File : 3m62190.D
Acq On : 14 Jun 2016 12:37 am
Operator : juliusj
Sample : ic2931-2.5
Misc : op94419a,e3m2931
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jun 14 08:10:24 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2931SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Tue Jun 14 08:09:55 2016
Response via : Initial Calibration



SGS ACCUTEST JC21347

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2932\
Data File : 3m62197.D
Acq On : 14 Jun 2016 10:04 am
Operator : linseyk
Sample : icv2931-1
Misc : op94419a,e3m2932
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 14 10:41:51 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2931SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Tue Jun 14 08:40:29 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	10.713	150	276145	4.00	ppm	0.00
14) Fluorene-d10	13.711	176	432047	4.00	ppm	0.00
21) Fluoranthene-d10	17.906	212	735008	4.00	ppm	-0.01
31) Benzo(a)pyrene-d12	22.513	264	579076	4.00	ppm	0.00
System Monitoring Compounds						
3) 2-Fluorophenol	0.000	112	0d	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
4) Phenol-d5	0.000	99	0d	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
7) Nitrobenzene-d5	0.000	82	0d	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
15) 2-Fluorobiphenyl	0.000	172	0d	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
20) 2,4,6-Tribromophenol	0.000	330	0d	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
28) Terphenyl-d14	0.000	244	0d	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
Target Compounds						Qvalue
5) Phenol	6.234	94	198673	3.24	ppm #	92
18) 4,6-dinitro-2-methylph...	13.918	198	53405	3.67	ppm	90
23) Pentachlorophenol	15.294	266	65841	3.52	ppm	91

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

7.6.51

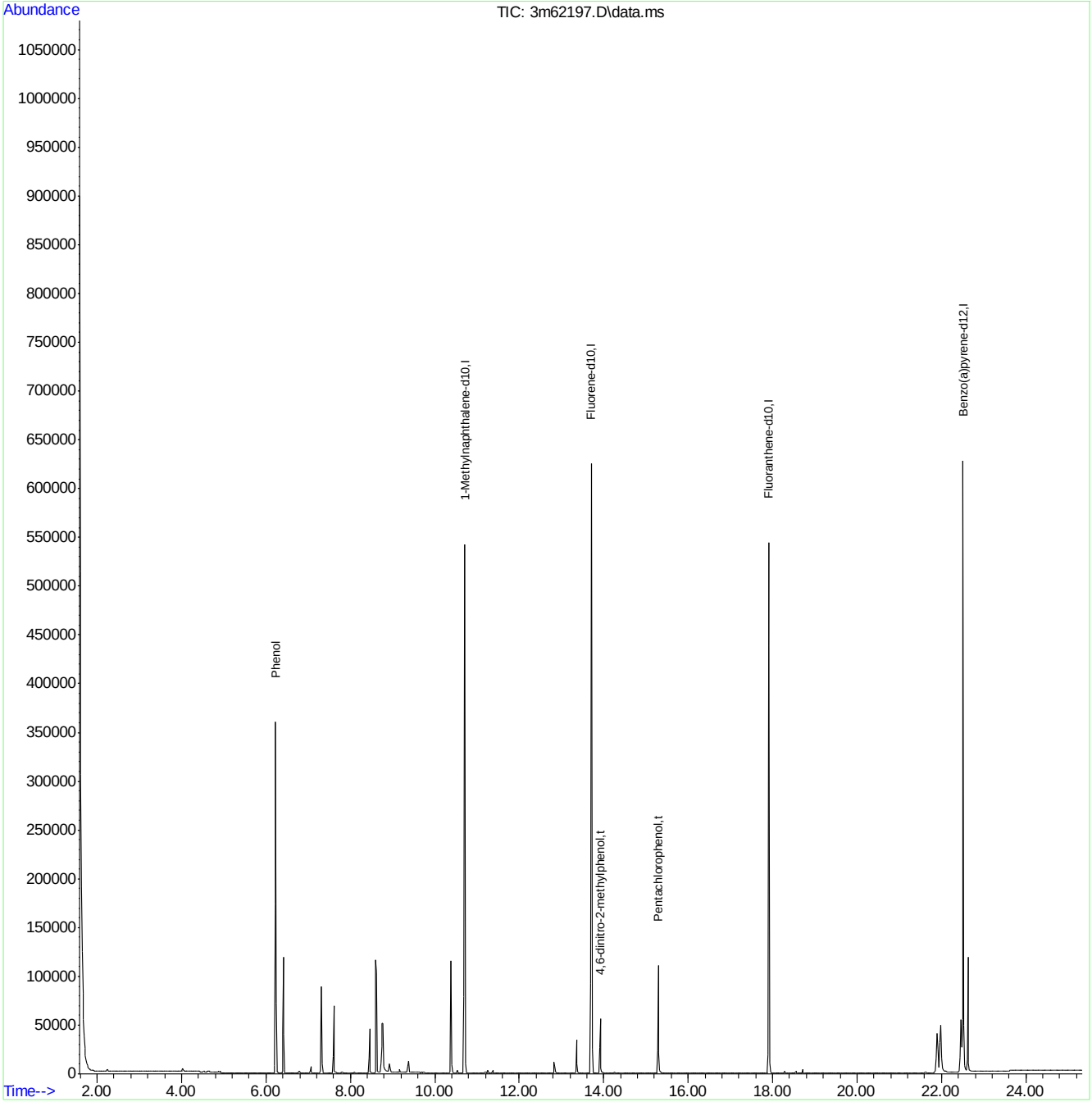
7

SGS ACCUTEST JC21347

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2932\
Data File : 3m62197.D
Acq On : 14 Jun 2016 10:04 am
Operator : linseyk
Sample : icv2931-1
Misc : op94419a,e3m2932
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 14 10:41:51 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2931SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Tue Jun 14 08:40:29 2016
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2932\
Data File : 3m62198.D
Acq On : 14 Jun 2016 10:36 am
Operator : linseyk
Sample : icv2931-1
Misc : op94419a,e3m2932
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 14 11:14:37 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2931SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Tue Jun 14 08:40:29 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	10.713	150	274005	4.00	ppm	0.00
14) Fluorene-d10	13.711	176	381853	4.00	ppm	0.00
21) Fluoranthene-d10	17.906	212	579596	4.00	ppm	-0.02
31) Benzo(a)pyrene-d12	22.513	264	434487	4.00	ppm	0.00
System Monitoring Compounds						
3) 2-Fluorophenol	0.000	112	0d	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
4) Phenol-d5	0.000	99	0d	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
7) Nitrobenzene-d5	0.000	82	0d	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
15) 2-Fluorobiphenyl	0.000	172	0d	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
20) 2,4,6-Tribromophenol	0.000	330	0d	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
28) Terphenyl-d14	0.000	244	0d	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
Target Compounds						Qvalue
2) 1,4-dioxane	2.406	88	11924	0.81	ppm	93
6) bis(2-Chloroethyl)ether	6.367	93	38624	0.91	ppm	78
8) Nitrobenzene	7.833	77	64492	0.86	ppm	80
9) Naphthalene	9.208	128	144625	0.91	ppm	97
10) Hexachlorobutadiene	9.528	225	31012	0.95	ppm	68
11) 2-Methylnaphthalene	10.590	141	82009	0.94	ppm	85
16) Acenaphthylene	12.364	152	136472	0.96	ppm	99
17) Acenaphthene	12.720	153	94107	1.02	ppm	99
19) Fluorene	13.767	166	104640	0.97	ppm	95
22) Hexachlorobenzene	14.876	284	28743	1.08	ppm	96
24) Phenanthrene	15.665	178	149375	1.11	ppm	89
25) Anthracene	15.773	178	140685	1.08	ppm	99
26) Fluoranthene	17.937	202	168410	1.00	ppm	99
27) Pyrene	18.338	202	173672	1.10	ppm	99
29) Benzo[a]anthracene	20.424	228	146982	0.99	ppm	99
30) Chrysene	20.471	228	144902	0.93	ppm	100
32) Benzo[b]fluoranthene	22.080	252	124995	0.80	ppm	96
33) Benzo[k]fluoranthene	22.118	252	123581	0.97	ppm	96
34) Benzo[a]pyrene	22.532	252	117374	0.86	ppm	98
35) Indeno[1,2,3-cd]pyrene	24.074	276	135475	0.90	ppm	98
36) Dibenz[a,h]anthracene	24.112	278	106733	0.89	ppm	95
37) Benzo[g,h,i]perylene	24.450	276	114924	0.89	ppm	98

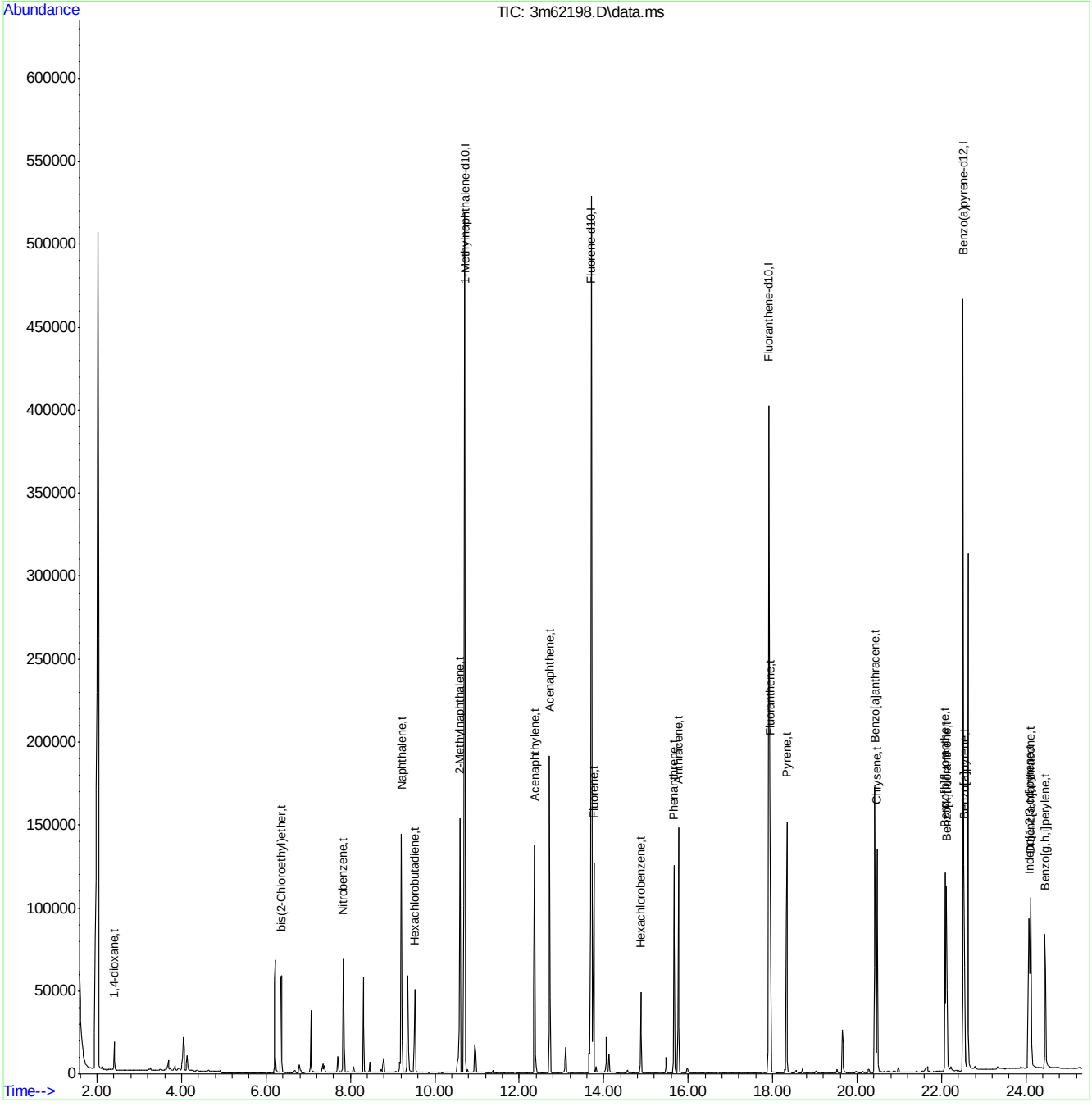
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC21347

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2932\
Data File : 3m62198.D
Acq On : 14 Jun 2016 10:36 am
Operator : linseyk
Sample : icv2931-1
Misc : op94419a,e3m2932
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 14 11:14:37 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2931SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Tue Jun 14 08:40:29 2016
Response via : Initial Calibration



SGS ACCUTEST JC21347

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2934\
Data File : 3m62202.D
Acq On : 14 Jun 2016 12:42 pm
Operator : linseyk
Sample : cc2931-1
Misc : op94419a,e3m2934
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 14 16:02:04 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2931SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Tue Jun 14 16:02:01 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	10.693	150	180784	4.00	ppm	-0.02
14) Fluorene-d10	13.692	176	263462	4.00	ppm	-0.02
21) Fluoranthene-d10	17.906	212	467776	4.00	ppm	-0.01
31) Benzo(a)pyrene-d12	22.494	264	385560	4.00	ppm	-0.02
System Monitoring Compounds						
3) 2-Fluorophenol	4.616	112	517977	20.97	ppm	-0.02
Spiked Amount 50.000			Recovery = 41.94%			
4) Phenol-d5	6.210	99	799879	20.62	ppm	-0.02
Spiked Amount 50.000			Recovery = 41.24%			
7) Nitrobenzene-d5	7.796	82	951702	21.09	ppm	-0.02
Spiked Amount 50.000			Recovery = 42.18%			
15) 2-Fluorobiphenyl	11.360	172	1709352	22.73	ppm	-0.03
Spiked Amount 50.000			Recovery = 45.46%			
20) 2,4,6-Tribromophenol	14.238	330	196122	23.66	ppm	-0.04
Spiked Amount 50.000			Recovery = 47.32%			
28) Terphenyl-d14	18.694	244	1558160	22.02	ppm	-0.03
Spiked Amount 50.000			Recovery = 44.04%			
Target Compounds						Qvalue
2) 1,4-dioxane	2.375	88	9644	1.00	ppm #	41
5) Phenol	6.234	94	209429	5.22	ppm #	57
6) bis(2-Chloroethyl)ether	6.355	93	29183	1.05	ppm #	47
8) Nitrobenzene	7.833	77	47606	0.96	ppm	97
9) Naphthalene	9.208	128	115441	1.10	ppm	100
10) Hexachlorobutadiene	9.528	225	22751	1.06	ppm #	58
11) 2-Methylnaphthalene	10.569	141	56721	0.99	ppm #	44
12) 1-Methylnaphthalene	10.775	141	64953	1.05	ppm	95
13) Hexachlorocyclopentadiene	10.939	237	47383	2.08	ppm	100
16) Acenaphthylene	12.349	152	112071	1.14	ppm	94
17) Acenaphthene	12.705	153	73477	1.16	ppm	89
18) 4,6-dinitro-2-methylph...	13.899	198	47584	5.17	ppm #	1
19) Fluorene	13.749	166	92174	1.24	ppm	77
22) Hexachlorobenzene	14.877	284	24533	1.14	ppm	71
23) Pentachlorophenol	15.279	266	70901	5.89	ppm	95
24) Phenanthrene	15.665	178	127593	1.17	ppm	99
25) Anthracene	15.758	178	123101	1.17	ppm	99
26) Fluoranthene	17.922	202	143999	1.06	ppm	99
27) Pyrene	18.323	202	149579	1.17	ppm	100
29) Benzo[a]anthracene	20.409	228	126914	1.06	ppm	97
30) Chrysene	20.455	228	140507	1.12	ppm	97
32) Benzo[b]fluoranthene	22.062	252	132730	0.96	ppm	96
33) Benzo[k]fluoranthene	22.099	252	122724	1.08	ppm	95
34) Benzo[a]pyrene	22.513	252	119050	0.98	ppm	100
35) Indeno[1,2,3-cd]pyrene	24.037	276	139311	1.04	ppm	95
36) Dibenz[a,h]anthracene	24.074	278	101642	0.95	ppm	86
37) Benzo[g,h,i]perylene	24.432	276	117180	1.02	ppm	100

SGS ACCUTEST JC21347

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2934\
Data File : 3m62202.D
Acq On : 14 Jun 2016 12:42 pm
Operator : linseyk
Sample : cc2931-1
Misc : op94419a,e3m2934
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 14 16:02:04 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2931SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Tue Jun 14 16:02:01 2016
Response via : Initial Calibration

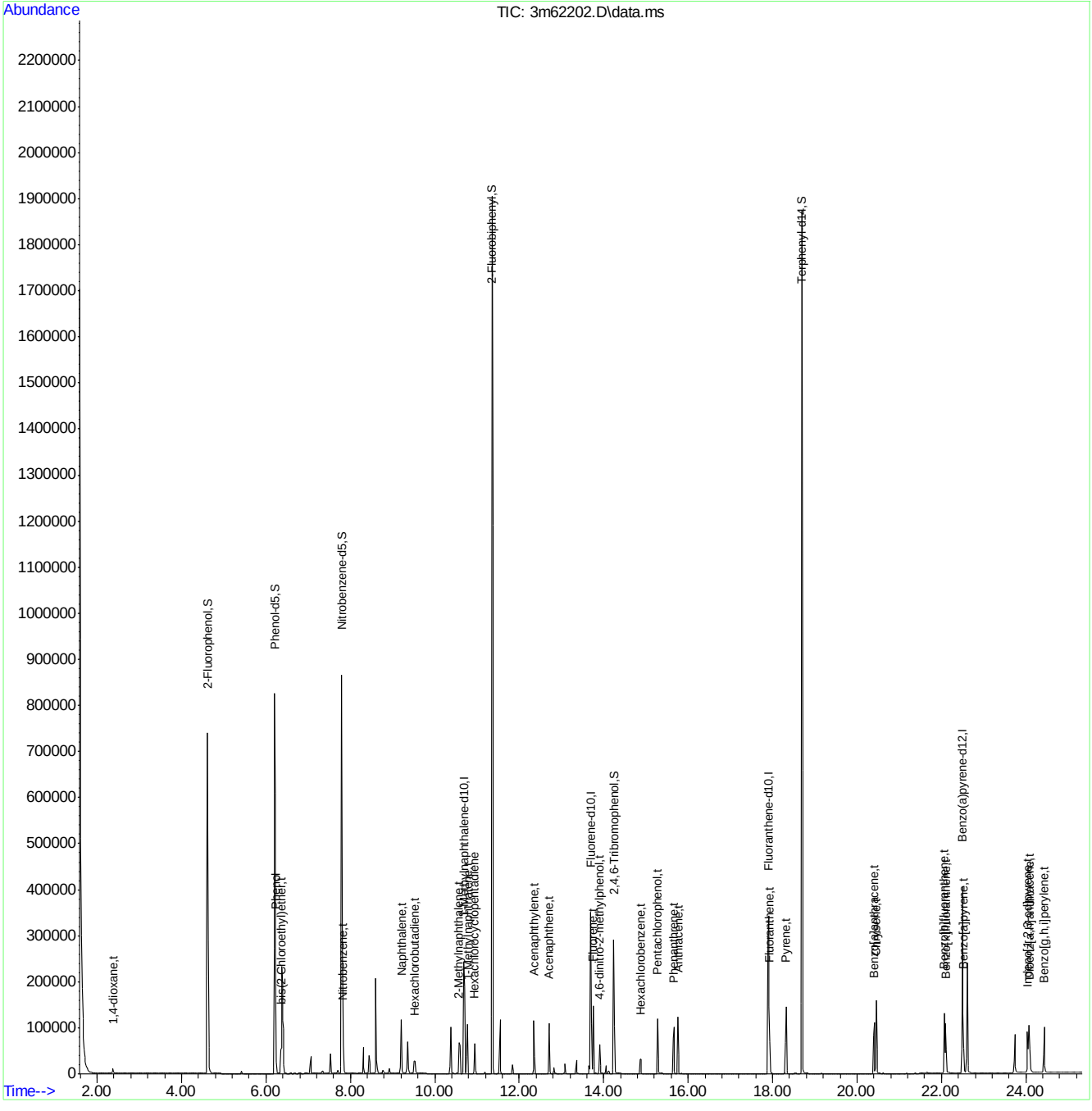
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2934\
Data File : 3m62202.D
Acq On : 14 Jun 2016 12:42 pm
Operator : linseyk
Sample : cc2931-1
Misc : op94419a,e3m2934
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 14 16:02:04 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2931SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Tue Jun 14 16:02:01 2016
Response via : Initial Calibration



SGS ACCUTEST JC21347

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6563\F156051.D Vial: 2
Acq On : 4 Apr 2016 7:09 pm Operator: sarad
Sample : ic6563-100 Inst : MSF
Misc : op92661,ef6563,100 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 05 08:14:01 2016 Quant Results File: MF6563.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Apr 05 08:13:49 2016
Response via : Initial Calibration
DataAcq Meth : MF6563

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.88	152	735738	40.00	ppm	0.00
24) Naphthalene-d8	5.81	136	2800726	40.00	ppm	0.00
47) Acenaphthene-d10	7.28	164	1660280	40.00	ppm	0.00
69) Phenanthrene-d10	9.22	188	2724294	40.00	ppm	0.00
83) Chrysene-d12	14.55	240	2126198	40.00	ppm	0.00
92) Perylene-d12	17.60	264	2220858	40.00	ppm	0.00
102) 1,4-Dichlorobenzene-d4A	4.88	152	735738	40.00	ppm	0.00
112) Naphthalene-d8A	5.81	136	2800726	40.00	ppm	0.00
121) Acenaphthene-d10A	7.28	164	1660280	40.00	ppm	0.00
132) Phenanthrene-d10A	9.22	188	2724294	40.00	ppm	0.00
147) Chrysene-d12A	14.55	240	2126198	40.00	ppm	0.00
155) Perylene-d12A	17.60	264	2220858	40.00	ppm	-0.10
159) 1,4-Dichlorobenzene-d4b	4.88	152	735738	40.00	ppm	0.00
161) Naphthalene-d8b	5.81	136	2800726	40.00	ppm	0.00
163) Acenaphthene-d10b	7.28	164	1660280	40.00	ppm	0.00
165) Phenanthrene-d10b	9.22	188	2724294	40.00	ppm	0.00
167) Chrysene-d12b	14.55	240	2126198	40.00	ppm	0.00
169) 1,4-Dichlorobenzene-d4c	4.88	152	735738	40.00	ppm	0.00
171) Naphthalene-d8c	5.81	136	2800726	40.00	ppm	0.00
176) Chrysene-d12c	14.55	240	2126198	40.00	ppm	0.00
178) Naphthalene-d8a	5.81	136	2800726	40.00	ppm	0.15
180) Chrysene-d12B	14.55	240	2126198	40.00	ppm	0.25
System Monitoring Compounds						
5) 2-Fluorophenol	3.89	112	2415283	97.31	ppm	0.00
Spiked Amount 50.000			Recovery = 194.62%			
8) Phenol-d5	4.61	99	2853578	96.41	ppm	0.00
Spiked Amount 50.000			Recovery = 192.82%			
25) Nitrobenzene-d5	5.28	82	2433835	96.44	ppm	0.00
Spiked Amount 50.000			Recovery = 192.88%			
51) 2-Fluorobiphenyl	6.64	172	4342287	93.76	ppm	0.00
Spiked Amount 50.000			Recovery = 187.52%			
73) 2,4,6-Tribromophenol	8.20	330	517542	95.28	ppm	0.00
Spiked Amount 50.000			Recovery = 190.56%			
85) Terphenyl-d14	12.32	244	4088465	96.46	ppm	0.01
Spiked Amount 50.000			Recovery = 192.92%			
Target Compounds						Qvalue
2) 1,4-Dioxane	2.48	88	1018203	95.16	ppm	95
3) Pyridine	2.79	79	2690464	99.72	ppm	99
4) N-Nitrosodimethylamine	2.76	42	937530	90.49	ppm	96
6) Indene	5.07	116	3469537	92.16	ppm	99
7) Cumene	4.29	105	4968732	93.89	ppm	97
9) Phenol	4.62	94	3154982	99.75	ppm	98
10) Aniline	4.64	93	2963325	94.39	ppm	99
11) bis(2-Chloroethyl)ether	4.69	93	2177822	96.37	ppm	96
12) 2-Chlorophenol	4.73	128	2406387	95.55	ppm	99
13) Decane	4.76	43	1963317	95.11	ppm	98
14) 1,3-Dichlorobenzene	4.84	146	2614967	94.91	ppm	99
15) 1,4-Dichlorobenzene	4.89	146	2614476	95.23	ppm	99

(#) = qualifier out of range (m) = manual integration
F156051.D MF6563.M Tue Apr 05 08:42:32 2016 RT1

SGS ACCUTEST JC21347

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6563\F156051.D Vial: 2
Acq On : 4 Apr 2016 7:09 pm Operator: sarad
Sample : ic6563-100 Inst : MSF
Misc : op92661,ef6563,100 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 05 08:14:01 2016 Quant Results File: MF6563.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Apr 05 08:13:49 2016
Response via : Initial Calibration
DataAcq Meth : MF6563

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
16)	Benzyl alcohol	4.98	108	1576852	96.65	ppm	92
17)	1,2-Dichlorobenzene	5.01	146	2379933	93.80	ppm	99
18)	Acetophenone	5.18	105	2624782	92.97	ppm	99
19)	2-Methylphenol	5.06	108	2053215	94.88	ppm	99
20)	2,2'-oxybis(1-Chloropropan	5.08	121	730006	94.43	ppm	95
21)	3&4-Methylphenol	5.17	108	1977426	92.94	ppm	98
22)	n-Nitroso-di-n-propylamine	5.18	70	1528888	96.37	ppm	98
23)	Hexachloroethane	5.26	201	817929	95.24	ppm	90
26)	Nitrobenzene	5.30	77	2494112	95.44	ppm	99
27)	Quinoline	6.07	129	4860825	96.16	ppm	98
28)	Isophorone	5.48	82	4117430	95.13	ppm	98
29)	2-Nitrophenol	5.53	139	1242388	94.12	ppm	93
30)	2,4-Dimethylphenol	5.55	107	2185611	97.20	ppm	99
31)	Benzoic acid	5.65	105	1881567	95.13	ppm	94
32)	bis(2-Chloroethoxy)methane	5.62	93	2547670	95.25	ppm	99
33)	2,4-Dichlorophenol	5.70	162	1959287	94.69	ppm	98
34)	2,6-Dichlorophenol	5.86	162	1731527	92.72	ppm	98
35)	1,3,5-Trichlorobenzene	5.54	180	1853561	91.96	ppm	98
36)	1,2,4-Trichlorobenzene	5.77	180	1938698	93.10	ppm	99
37)	1,2,3-Trichlorobenzene	5.93	180	1890090	92.62	ppm	99
38)	Naphthalene	5.82	128	5709757	89.14	ppm	94
39)	4-Chloroaniline	5.86	127	2479911	92.20	ppm	99
40)	2,3-Dichloroaniline	6.56	161	1986572	92.15	ppm	95
41)	Caprolactam	6.13	55	1008962	97.53	ppm	98
42)	Hexachlorobutadiene	5.91	225	893950	92.65	ppm	99
43)	4-Chloro-3-methylphenol	6.21	107	1978829	95.60	ppm	98
44)	2-Methylnaphthalene	6.34	141	3554755	93.20	ppm	97
45)	1-Methylnaphthalene	6.42	141	3668076	93.09	ppm	98
46)	Dimethylnaphthalene	6.87	156	3683476	92.55	ppm	98
48)	Hexachlorocyclopentadiene	6.46	237	1893313	184.00	ppm	99
49)	2,4,6-Trichlorophenol	6.56	196	1076514	90.67	ppm	99
50)	2,4,5-Trichlorophenol	6.60	196	1388401	97.07	ppm	97
52)	2-Chloronaphthalene	6.75	162	3997017	93.95	ppm	97
53)	Biphenyl	6.72	154	4938769	92.56	ppm	96
54)	2-Nitroaniline	6.83	65	1315818	97.37	ppm	99
55)	Dimethylphthalate	6.99	163	4635167	95.00	ppm	99
56)	Acenaphthylene	7.13	152	6291490	92.61	ppm	96
57)	2,6-Dinitrotoluene	7.05	165	1104006	96.28	ppm	99
58)	3-Nitroaniline	7.22	138	1387906	97.20	ppm	97
59)	Acenaphthene	7.31	153	3993510	93.75	ppm	99
60)	2,4-Dinitrophenol	7.34	184	1363184	199.99	ppm	90
61)	4-Nitrophenol	7.38	109	700188	98.20	ppm	95
62)	Dibenzofuran	7.50	168	5523942	94.24	ppm	96
63)	2,4-Dinitrotoluene	7.47	165	1525966	97.18	ppm	99
64)	2,3,4,6-Tetrachlorophenol	7.63	232	1059085	95.49	ppm	98
65)	Diethylphthalate	7.75	149	4660438	95.22	ppm	98
66)	Fluorene	7.90	166	3950840	92.72	ppm	100
67)	4-Chlorophenyl-phenylether	7.89	204	1689443	92.10	ppm	99
68)	4-Nitroaniline	7.92	138	1402452	98.41	ppm	99

(#) = qualifier out of range (m) = manual integration

SGS ACCUTEST JC21347

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6563\F156051.D Vial: 2
Acq On : 4 Apr 2016 7:09 pm Operator: sarad
Sample : ic6563-100 Inst : MSF
Misc : op92661,ef6563,100 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 05 08:14:01 2016 Quant Results File: MF6563.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Apr 05 08:13:49 2016
Response via : Initial Calibration
DataAcq Meth : MF6563

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
70)	4,6-Dinitro-2-methylphenol	7.96	198	920275	98.75	ppm	98
71)	n-Nitrosodiphenylamine	8.04	169	3341482	94.31	ppm	100
72)	1,2-Diphenylhydrazine	8.09	77	4866438	96.01	ppm	100
74)	4-Bromophenyl-phenylether	8.55	248	1119508	94.72	ppm	98
75)	Hexachlorobenzene	8.63	284	1067556	94.24	ppm	96
76)	Pentachlorophenol	8.93	266	1472528	187.28	ppm	97
77)	Phenanthrene	9.26	178	6463150	94.05	ppm	99
78)	Anthracene	9.34	178	6560053	93.30	ppm	98
79)	Carbazole	9.62	167	6335193	94.85	ppm	99
80)	Di-n-butylphthalate	10.33	149	7970957	93.84	ppm	98
81)	Fluoranthene	11.44	202	6809284	94.97	ppm	99
82)	Octadecane	9.11	57	2784718	94.50	ppm	98
84)	Pyrene	11.89	202	7130369	96.69	ppm	99
86)	Butylbenzylphthalate	13.50	149	3749178	98.42	ppm	99
87)	Butyl stearate	13.78	56	2050981	96.66	ppm	97
88)	Benzo[a]anthracene	14.53	228	6154397	97.90	ppm	99
89)	3,3'-Dichlorobenzidine	14.57	252	2263266	99.56	ppm	99
90)	Chrysene	14.62	228	6043538	96.93	ppm	98
91)	bis(2-Ethylhexyl)phthalate	14.91	149	5223738	98.04	ppm	99
93)	Di-n-octylphthalate	16.36	149	9141867	94.78	ppm	99
94)	Benzo[b]fluoranthene	16.86	252	6115537	94.36	ppm	98
95)	Benzo[k]fluoranthene	16.93	252	6017663	93.42	ppm	99
96)	Benzo[a]pyrene	17.50	252	5718329	95.17	ppm	99
97)	Indeno[1,2,3-cd]pyrene	19.56	276	5381186	96.35	ppm	98
98)	Dibenz(a,h)acridine	19.19	279	4651885	96.37	ppm	98
99)	Dibenz[a,h]anthracene	19.62	278	5247348	95.01	ppm	98
100)	7,12-Dimethylbenz(a)anthra	16.88	256	2602864	95.06	ppm	98
101)	Benzo[g,h,i]perylene	19.99	276	5636779	95.40	ppm	99

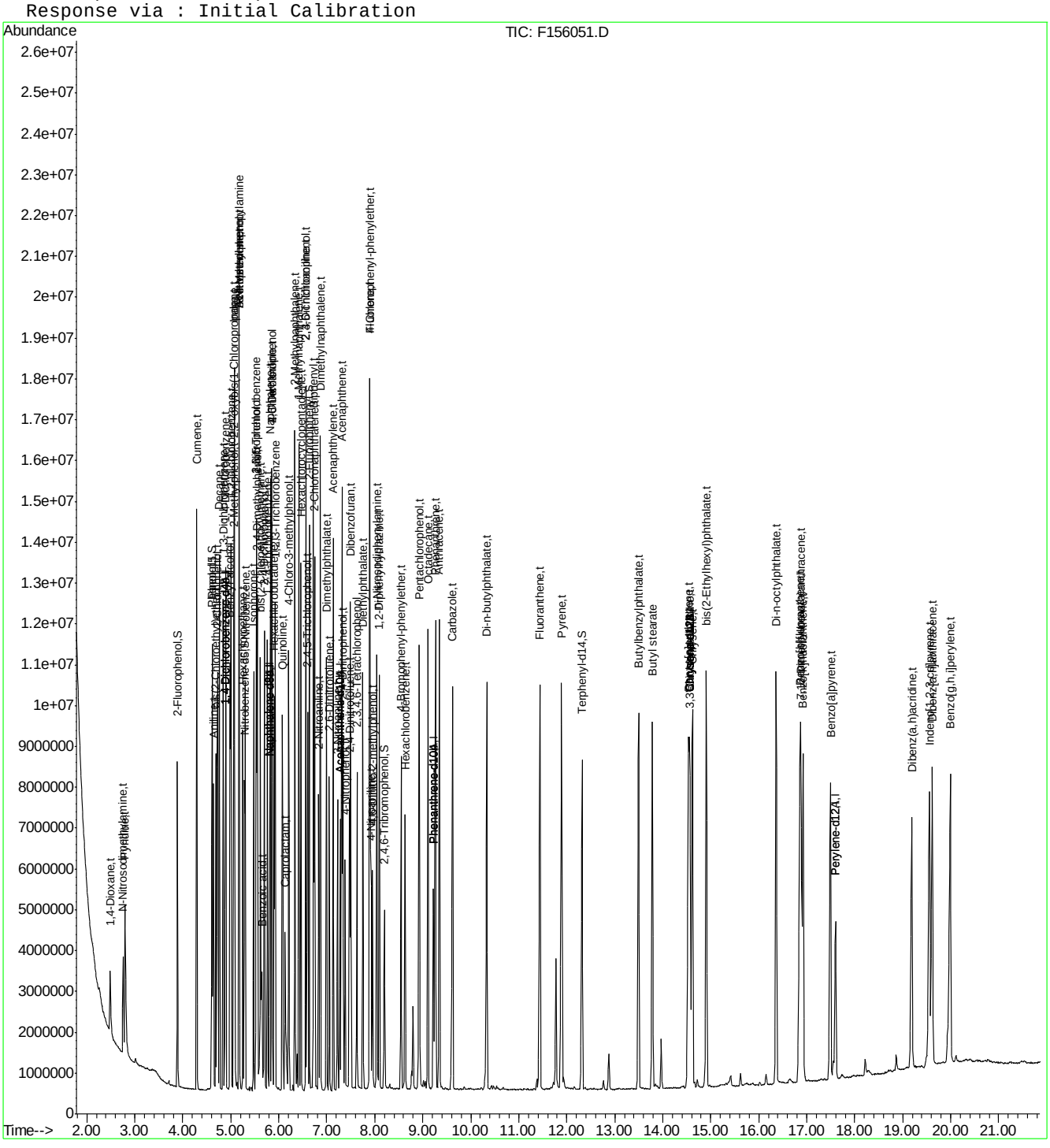
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC21347

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6563\F156051.D Vial: 2
Acq On : 4 Apr 2016 7:09 pm Operator: sarad
Sample : ic6563-100 Inst : MSF
Misc : op92661,ef6563,100 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 5 8:42 2016 Quant Results File: MF6563.RES

Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Apr 05 08:13:49 2016
Response via : Initial Calibration



SGS ACCUTEST JC21347

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6563\F156052.D Vial: 3
Acq On : 4 Apr 2016 7:38 pm Operator: sarad
Sample : ic6563-80 Inst : MSF
Misc : op92661,ef6563,100 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 05 08:14:04 2016 Quant Results File: MF6563.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Apr 05 08:13:49 2016
Response via : Initial Calibration
DataAcq Meth : MF6563

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.88	152	764392	40.00	ppm	0.00
24) Naphthalene-d8	5.81	136	2888824	40.00	ppm	0.00
47) Acenaphthene-d10	7.27	164	1719749	40.00	ppm	0.00
69) Phenanthrene-d10	9.22	188	2826597	40.00	ppm	0.00
83) Chrysene-d12	14.55	240	2250416	40.00	ppm	0.00
92) Perylene-d12	17.59	264	2338825	40.00	ppm	0.00
102) 1,4-Dichlorobenzene-d4A	4.88	152	764392	40.00	ppm	0.00
112) Naphthalene-d8A	5.81	136	2888824	40.00	ppm	0.00
121) Acenaphthene-d10A	7.27	164	1719749	40.00	ppm	0.00
132) Phenanthrene-d10A	9.22	188	2826597	40.00	ppm	0.00
147) Chrysene-d12A	14.55	240	2250416	40.00	ppm	0.00
155) Perylene-d12A	17.59	264	2338825	40.00	ppm	-0.10
159) 1,4-Dichlorobenzene-d4b	4.88	152	764392	40.00	ppm	0.00
161) Naphthalene-d8b	5.81	136	2888824	40.00	ppm	0.00
163) Acenaphthene-d10b	7.27	164	1719749	40.00	ppm	0.00
165) Phenanthrene-d10b	9.22	188	2826597	40.00	ppm	0.00
167) Chrysene-d12b	14.55	240	2250416	40.00	ppm	0.00
169) 1,4-Dichlorobenzene-d4c	4.88	152	764392	40.00	ppm	0.00
171) Naphthalene-d8c	5.81	136	2888824	40.00	ppm	0.00
176) Chrysene-d12c	14.55	240	2250416	40.00	ppm	0.00
178) Naphthalene-d8a	5.81	136	2888824	40.00	ppm	0.15
180) Chrysene-d12B	14.55	240	2250416	40.00	ppm	0.25
System Monitoring Compounds						
5) 2-Fluorophenol	3.89	112	2062489	79.98	ppm	0.00
Spiked Amount 50.000			Recovery = 159.96%			
8) Phenol-d5	4.61	99	2462479	80.08	ppm	0.00
Spiked Amount 50.000			Recovery = 160.16%			
25) Nitrobenzene-d5	5.28	82	2060768	79.17	ppm	0.00
Spiked Amount 50.000			Recovery = 158.34%			
51) 2-Fluorobiphenyl	6.63	172	3825541	79.74	ppm	0.00
Spiked Amount 50.000			Recovery = 159.48%			
73) 2,4,6-Tribromophenol	8.20	330	446788	79.28	ppm	0.00
Spiked Amount 50.000			Recovery = 158.56%			
85) Terphenyl-d14	12.31	244	3624247	80.79	ppm	0.00
Spiked Amount 50.000			Recovery = 161.58%			
Target Compounds						Qvalue
2) 1,4-Dioxane	2.50	88	879798	79.14	ppm	95
3) Pyridine	2.80	79	2273153	81.09	ppm	100
4) N-Nitrosodimethylamine	2.76	42	790559	73.45	ppm	97
6) Indene	5.07	116	3089321	78.98	ppm	100
7) Cumene	4.29	105	4456078	81.05	ppm	99
9) Phenol	4.62	94	2760273	84.00	ppm	98
10) Aniline	4.64	93	2652544	81.32	ppm	99
11) bis(2-Chloroethyl)ether	4.69	93	1882357	80.17	ppm	97
12) 2-Chlorophenol	4.73	128	2078397	79.43	ppm	98
13) Decane	4.76	43	1701763	79.35	ppm	99
14) 1,3-Dichlorobenzene	4.84	146	2276578	79.53	ppm	100
15) 1,4-Dichlorobenzene	4.89	146	2285665	80.13	ppm	99

(#) = qualifier out of range (m) = manual integration
F156052.D MF6563.M Tue Apr 05 08:44:12 2016 RT1

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6563\F156052.D Vial: 3
Acq On : 4 Apr 2016 7:38 pm Operator: sarad
Sample : ic6563-80 Inst : MSF
Misc : op92661,ef6563,100 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 05 08:14:04 2016 Quant Results File: MF6563.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Apr 05 08:13:49 2016
Response via : Initial Calibration
DataAcq Meth : MF6563

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
16) Benzyl alcohol	4.98	108	1343060	79.24	ppm	94
17) 1,2-Dichlorobenzene	5.01	146	2067345	78.43	ppm	99
18) Acetophenone	5.18	105	2310235	78.76	ppm	89
19) 2-Methylphenol	5.06	108	1787075	79.49	ppm	99
20) 2,2'-oxybis(1-Chloropropan	5.08	121	632570	78.76	ppm	93
21) 3&4-Methylphenol	5.17	108	1752503	79.28	ppm	99
22) n-Nitroso-di-n-propylamine	5.18	70	1313164	79.67	ppm	99
23) Hexachloroethane	5.26	201	713347	79.95	ppm	87
26) Nitrobenzene	5.30	77	2147480	79.67	ppm	96
27) Quinoline	6.07	129	4207237	80.69	ppm	99
28) Isophorone	5.47	82	3560554	79.75	ppm	97
29) 2-Nitrophenol	5.53	139	1072794	78.79	ppm	88
30) 2,4-Dimethylphenol	5.55	107	1867062	80.50	ppm	97
31) Benzoic acid	5.64	105	1754892	86.02	ppm	96
32) bis(2-Chloroethoxy)methane	5.62	93	2201059	79.78	ppm	99
33) 2,4-Dichlorophenol	5.70	162	1702377	79.77	ppm	98
34) 2,6-Dichlorophenol	5.86	162	1527098	79.28	ppm	98
35) 1,3,5-Trichlorobenzene	5.54	180	1612386	77.56	ppm	98
36) 1,2,4-Trichlorobenzene	5.76	180	1703831	79.32	ppm	99
37) 1,2,3-Trichlorobenzene	5.93	180	1653422	78.55	ppm	99
38) Naphthalene	5.82	128	5210846	78.87	ppm	98
39) 4-Chloroaniline	5.86	127	2195979	79.16	ppm	99
40) 2,3-Dichloroaniline	6.56	161	1755819	78.96	ppm	97
41) Caprolactam	6.13	55	872700	81.79	ppm	98
42) Hexachlorobutadiene	5.90	225	791240	79.50	ppm	98
43) 4-Chloro-3-methylphenol	6.21	107	1726269	80.86	ppm	100
44) 2-Methylnaphthalene	6.34	141	3113016	79.13	ppm	99
45) 1-Methylnaphthalene	6.42	141	3188993	78.46	ppm	99
46) Dimethylnaphthalene	6.87	156	3238997	78.90	ppm	99
48) Hexachlorocyclopentadiene	6.46	237	1690587	158.61	ppm	100
49) 2,4,6-Trichlorophenol	6.56	196	965555	78.51	ppm	98
50) 2,4,5-Trichlorophenol	6.59	196	1215427	82.04	ppm	98
52) 2-Chloronaphthalene	6.74	162	3523183	79.95	ppm	98
53) Biphenyl	6.72	154	4380247	79.25	ppm	96
54) 2-Nitroaniline	6.83	65	1137580	81.27	ppm	97
55) Dimethylphthalate	6.99	163	4095162	81.03	ppm	99
56) Acenaphthylene	7.13	152	5708953	81.13	ppm	98
57) 2,6-Dinitrotoluene	7.05	165	959498	80.78	ppm	99
58) 3-Nitroaniline	7.22	138	1200801	81.19	ppm	98
59) Acenaphthene	7.31	153	3530348	80.01	ppm	96
60) 2,4-Dinitrophenol	7.33	184	1162305	164.62	ppm	97
61) 4-Nitrophenol	7.38	109	605426	81.98	ppm	97
62) Dibenzofuran	7.50	168	4864463	80.12	ppm	99
63) 2,4-Dinitrotoluene	7.47	165	1324034	81.41	ppm	98
64) 2,3,4,6-Tetrachlorophenol	7.62	232	937948	81.64	ppm	96
65) Diethylphthalate	7.75	149	4058066	80.04	ppm	98
66) Fluorene	7.90	166	3521021	79.77	ppm	99
67) 4-Chlorophenyl-phenylether	7.89	204	1501482	79.02	ppm	98
68) 4-Nitroaniline	7.91	138	1214235	82.26	ppm	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6563\F156052.D Vial: 3
Acq On : 4 Apr 2016 7:38 pm Operator: sarad
Sample : ic6563-80 Inst : MSF
Misc : op92661,ef6563,100 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 05 08:14:04 2016 Quant Results File: MF6563.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Apr 05 08:13:49 2016
Response via : Initial Calibration
DataAcq Meth : MF6563

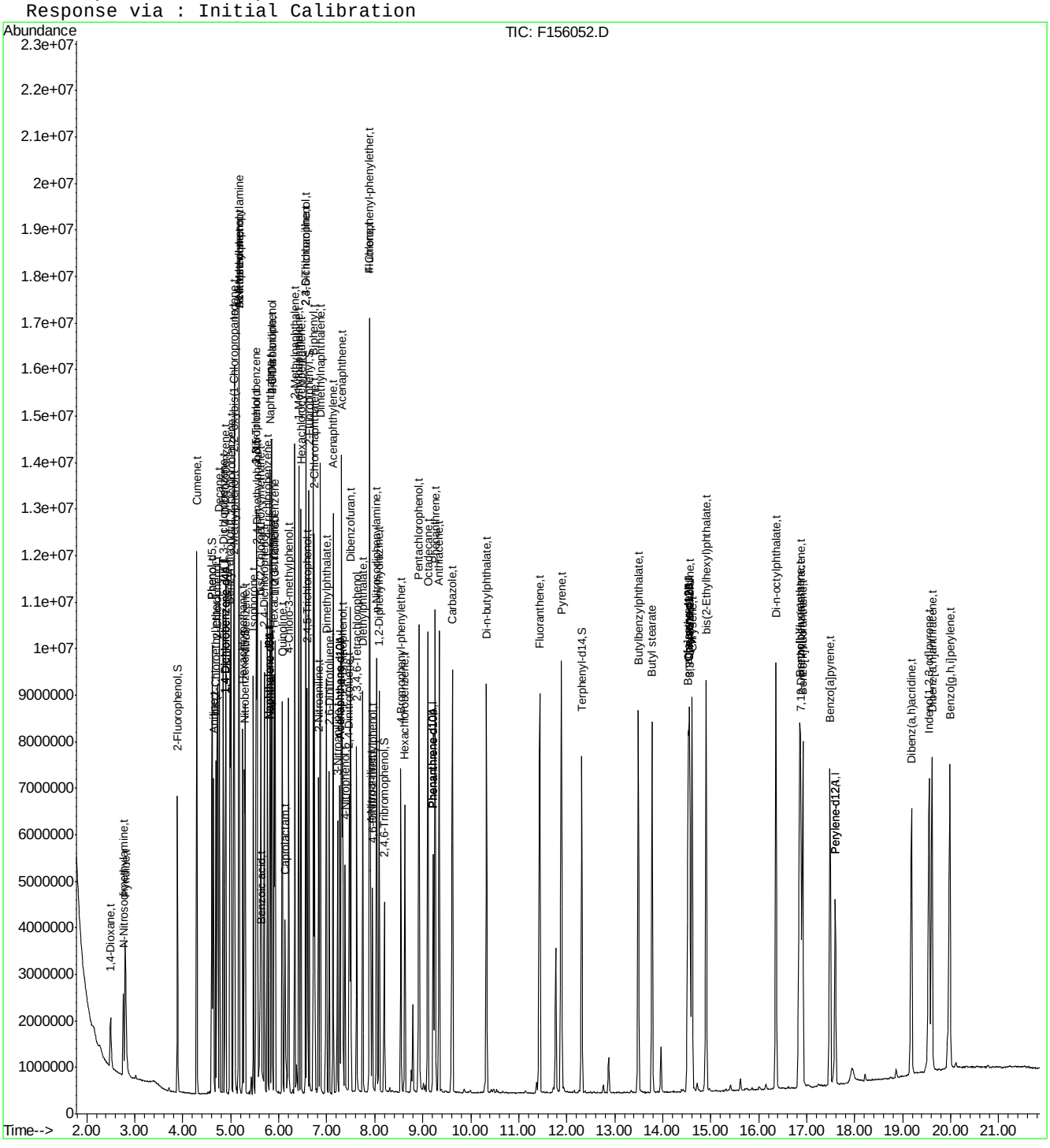
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
70)	4,6-Dinitro-2-methylphenol	7.95	198	785914	81.28	ppm	98
71)	n-Nitrosodiphenylamine	8.04	169	2958155	80.47	ppm	99
72)	1,2-Diphenylhydrazine	8.09	77	4213708	80.12	ppm	97
74)	4-Bromophenyl-phenylether	8.55	248	994002	81.06	ppm	97
75)	Hexachlorobenzene	8.63	284	945310	80.43	ppm	96
76)	Pentachlorophenol	8.92	266	1300970	159.47	ppm	96
77)	Phenanthrene	9.26	178	5752271	80.67	ppm	100
78)	Anthracene	9.34	178	5824392	79.84	ppm	100
79)	Carbazole	9.62	167	5550966	80.10	ppm	99
80)	Di-n-butylphthalate	10.33	149	7133269	80.93	ppm	99
81)	Fluoranthene	11.44	202	5981934	80.41	ppm	99
82)	Octadecane	9.11	57	2401312	78.54	ppm	97
84)	Pyrene	11.89	202	6287677	80.55	ppm	99
86)	Butylbenzylphthalate	13.49	149	3301200	81.88	ppm	98
87)	Butyl stearate	13.78	56	1791413	79.76	ppm	98
88)	Benzo[a]anthracene	14.53	228	5420519	81.47	ppm	100
89)	3,3'-Dichlorobenzidine	14.56	252	1990392	82.72	ppm	100
90)	Chrysene	14.61	228	5371405	81.40	ppm	100
91)	bis(2-Ethylhexyl)phthalate	14.91	149	4525592	80.25	ppm	100
93)	Di-n-octylphthalate	16.36	149	8079322	79.54	ppm	100
94)	Benzo[b]fluoranthene	16.85	252	5463606	80.05	ppm	98
95)	Benzo[k]fluoranthene	16.92	252	5260391	77.55	ppm	98
96)	Benzo[a]pyrene	17.49	252	5062293	80.00	ppm	100
97)	Indeno[1,2,3-cd]pyrene	19.55	276	4753743	80.82	ppm	99
98)	Dibenz(a,h)acridine	19.18	279	4103933	80.73	ppm	100
99)	Dibenz[a,h]anthracene	19.61	278	4734117	81.40	ppm	98
100)	7,12-Dimethylbenz(a)anthra	16.88	256	2332244	80.88	ppm	98
101)	Benzo[g,h,i]perylene	19.99	276	5078801	81.62	ppm	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed
F156052.D MF6563.M Tue Apr 05 08:44:12 2016 RT1

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6563\F156052.D Vial: 3
Acq On : 4 Apr 2016 7:38 pm Operator: sarad
Sample : ic6563-80 Inst : MSF
Misc : op92661,ef6563,100 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 5 8:44 2016 Quant Results File: MF6563.RES

Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Apr 05 08:42:42 2016
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6563\F156053.D Vial: 4
Acq On : 4 Apr 2016 8:07 pm Operator: sarad
Sample : icc6563-50 Inst : MSF
Misc : op92661,ef6563,100 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 05 08:46:02 2016 Quant Results File: MF6563.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Apr 05 08:46:00 2016
Response via : Initial Calibration
DataAcq Meth : MF6563

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.88	152	871983	40.00	ppm	0.00
24) Naphthalene-d8	5.80	136	3243593	40.00	ppm	0.00
47) Acenaphthene-d10	7.27	164	1949962	40.00	ppm	0.00
69) Phenanthrene-d10	9.22	188	3159351	40.00	ppm	0.00
83) Chrysene-d12	14.55	240	2526174	40.00	ppm	0.00
92) Perylene-d12	17.59	264	2502949	40.00	ppm	0.00
102) 1,4-Dichlorobenzene-d4A	4.88	152	871983	40.00	ppm	0.00
112) Naphthalene-d8A	5.80	136	3243593	40.00	ppm	0.00
121) Acenaphthene-d10A	7.27	164	1949962	40.00	ppm	0.00
132) Phenanthrene-d10A	9.22	188	3159351	40.00	ppm	0.00
147) Chrysene-d12A	14.55	240	2526174	40.00	ppm	0.00
155) Perylene-d12A	17.59	264	2502949	40.00	ppm	0.00
159) 1,4-Dichlorobenzene-d4b	4.88	152	871983	40.00	ppm	0.00
161) Naphthalene-d8b	5.80	136	3243593	40.00	ppm	0.00
163) Acenaphthene-d10b	7.27	164	1949962	40.00	ppm	0.00
165) Phenanthrene-d10b	9.22	188	3159351	40.00	ppm	0.00
167) Chrysene-d12b	14.55	240	2526174	40.00	ppm	0.00
169) 1,4-Dichlorobenzene-d4c	4.88	152	871983	40.00	ppm	0.00
171) Naphthalene-d8c	5.80	136	3243593	40.00	ppm	0.00
176) Chrysene-d12c	14.55	240	2526174	40.00	ppm	0.00
178) Naphthalene-d8a	5.80	136	3243593	40.00	ppm	0.15
180) Chrysene-d12B	14.55	240	2526174	40.00	ppm	0.24

System Monitoring Compounds						
5) 2-Fluorophenol	3.89	112	1510498	51.35	ppm	0.00
Spiked Amount 50.000			Recovery = 102.70%			
8) Phenol-d5	4.60	99	1817034	51.78	ppm	0.00
Spiked Amount 50.000			Recovery = 103.56%			
25) Nitrobenzene-d5	5.28	82	1513443	51.96	ppm	0.00
Spiked Amount 50.000			Recovery = 103.92%			
51) 2-Fluorobiphenyl	6.63	172	2889575	53.18	ppm	0.00
Spiked Amount 50.000			Recovery = 106.36%			
73) 2,4,6-Tribromophenol	8.20	330	329797	52.51	ppm	0.00
Spiked Amount 50.000			Recovery = 105.02%			
85) Terphenyl-d14	12.31	244	2605068	51.56	ppm	0.00
Spiked Amount 50.000			Recovery = 103.12%			

Target Compounds						Qvalue
2) 1,4-Dioxane	2.49	88	666778	53.27	ppm	95
3) Pyridine	2.79	79	1603285	49.91	ppm	100
4) N-Nitrosodimethylamine	2.76	42	564202	48.48	ppm	99
6) Indene	5.07	116	2405863	54.15	ppm	100
7) Cumene	4.29	105	3327601	52.82	ppm	100
9) Phenol	4.61	94	1896418	49.61	ppm	93
10) Aniline	4.64	93	1964758	52.52	ppm	100
11) bis(2-Chloroethyl)ether	4.69	93	1387751	51.78	ppm	100
12) 2-Chlorophenol	4.72	128	1558857	52.35	ppm	100
13) Decane	4.76	43	1282990	52.59	ppm	100
14) 1,3-Dichlorobenzene	4.84	146	1715893	52.65	ppm	100
15) 1,4-Dichlorobenzene	4.89	146	1704630	52.36	ppm	100

(#) = qualifier out of range (m) = manual integration
F156053.D MF6563.M Tue Apr 05 08:47:21 2016 RT1

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6563\F156053.D Vial: 4
Acq On : 4 Apr 2016 8:07 pm Operator: sarad
Sample : icc6563-50 Inst : MSF
Misc : op92661,ef6563,100 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 05 08:46:02 2016 Quant Results File: MF6563.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Apr 05 08:46:00 2016
Response via : Initial Calibration
DataAcq Meth : MF6563

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
16) Benzyl alcohol	4.98	108	999116	51.84	ppm	100
17) 1,2-Dichlorobenzene	5.01	146	1596681	53.45	ppm	100
18) Acetophenone	5.17	105	1790578	53.79	ppm	100
19) 2-Methylphenol	5.05	108	1349727	52.72	ppm	100
20) 2,2'-oxybis(1-Chloropropan	5.08	121	483612	53.06	ppm	100
21) 3&4-Methylphenol	5.17	108	1347184	53.62	ppm	100
22) n-Nitroso-di-n-propylamine	5.17	70	974183	51.88	ppm	100
23) Hexachloroethane	5.25	201	533108	52.39	ppm	100
26) Nitrobenzene	5.29	77	1579979	52.28	ppm	100
27) Quinoline	6.07	129	3039806	51.77	ppm	100
28) Isophorone	5.47	82	2628484	52.49	ppm	100
29) 2-Nitrophenol	5.52	139	809389	53.21	ppm	100
30) 2,4-Dimethylphenol	5.55	107	1338514	51.29	ppm	100
31) Benzoic acid	5.63	105	1201010	51.15	ppm	100
32) bis(2-Chloroethoxy)methane	5.62	93	1622282	52.42	ppm	100
33) 2,4-Dichlorophenol	5.70	162	1261730	52.70	ppm	100
34) 2,6-Dichlorophenol	5.86	162	1160131	53.80	ppm	100
35) 1,3,5-Trichlorobenzene	5.54	180	1261006	54.58	ppm	100
36) 1,2,4-Trichlorobenzene	5.76	180	1289139	53.60	ppm	100
37) 1,2,3-Trichlorobenzene	5.92	180	1268943	54.02	ppm	100
38) Naphthalene	5.82	128	4111706	55.69	ppm	100
39) 4-Chloroaniline	5.85	127	1678939	54.09	ppm	100
40) 2,3-Dichloroaniline	6.56	161	1346445	54.16	ppm	100
41) Caprolactam	6.12	55	613796	50.85	ppm	100
42) Hexachlorobutadiene	5.90	225	599845	53.79	ppm	100
43) 4-Chloro-3-methylphenol	6.20	107	1251313	52.01	ppm	100
44) 2-Methylnaphthalene	6.33	141	2358934	53.60	ppm	100
45) 1-Methylnaphthalene	6.41	141	2439588	53.80	ppm	100
46) Dimethylnaphthalene	6.86	156	2476399	53.97	ppm	100
48) Hexachlorocyclopentadiene	6.46	237	1305240	108.31	ppm	100
49) 2,4,6-Trichlorophenol	6.56	196	762268	55.01	ppm	100
50) 2,4,5-Trichlorophenol	6.59	196	869436	51.31	ppm	100
52) 2-Chloronaphthalene	6.74	162	2649514	53.04	ppm	100
53) Biphenyl	6.72	154	3366639	53.89	ppm	100
54) 2-Nitroaniline	6.82	65	814469	51.05	ppm	100
55) Dimethylphthalate	6.99	163	3008660	52.28	ppm	100
56) Acenaphthylene	7.13	152	4284263	53.44	ppm	100
57) 2,6-Dinitrotoluene	7.05	165	698403	51.69	ppm	100
58) 3-Nitroaniline	7.22	138	861937	51.14	ppm	100
59) Acenaphthene	7.31	153	2658055	53.13	ppm	100
60) 2,4-Dinitrophenol	7.32	184	800604	99.05	ppm	100
61) 4-Nitrophenol	7.37	109	412116	48.92	ppm	100
62) Dibenzofuran	7.49	168	3640302	52.85	ppm	100
63) 2,4-Dinitrotoluene	7.46	165	948033	51.11	ppm	100
64) 2,3,4,6-Tetrachlorophenol	7.62	232	680751	51.90	ppm	100
65) Diethylphthalate	7.75	149	3011705	52.38	ppm	100
66) Fluorene	7.89	166	2684681	53.69	ppm	100
67) 4-Chlorophenyl-phenylether	7.89	204	1162378	54.17	ppm	100
68) 4-Nitroaniline	7.91	138	850105	50.32	ppm	100

(#) = qualifier out of range (m) = manual integration

SGS ACCUTEST JC21347

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6563\F156053.D Vial: 4
Acq On : 4 Apr 2016 8:07 pm Operator: sarad
Sample : icc6563-50 Inst : MSF
Misc : op92661,ef6563,100 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 05 08:46:02 2016 Quant Results File: MF6563.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Apr 05 08:46:00 2016
Response via : Initial Calibration
DataAcq Meth : MF6563

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
70)	4,6-Dinitro-2-methylphenol	7.94	198	547100	50.35	ppm	100
71)	n-Nitrosodiphenylamine	8.04	169	2171178	52.74	ppm	100
72)	1,2-Diphenylhydrazine	8.09	77	3056349	51.97	ppm	100
74)	4-Bromophenyl-phenylether	8.54	248	721480	52.41	ppm	100
75)	Hexachlorobenzene	8.63	284	694643	52.78	ppm	100
76)	Pentachlorophenol	8.92	266	969858	106.48	ppm	100
77)	Phenanthrene	9.25	178	4222158	52.83	ppm	100
78)	Anthracene	9.34	178	4326567	53.10	ppm	100
79)	Carbazole	9.61	167	4045902	52.22	ppm	100
80)	Di-n-butylphthalate	10.33	149	5229224	52.88	ppm	100
81)	Fluoranthene	11.43	202	4365246	52.41	ppm	100
82)	Octadecane	9.10	57	1802615	53.07	ppm	100
84)	Pyrene	11.88	202	4516342	51.43	ppm	100
86)	Butylbenzylphthalate	13.49	149	2294077	50.29	ppm	100
87)	Butyl stearate	13.77	56	1294518	51.40	ppm	100
88)	Benzo[a]anthracene	14.53	228	3822200	50.86	ppm	100
89)	3,3'-Dichlorobenzidine	14.56	252	1356731	49.67	ppm	100
90)	Chrysene	14.61	228	3796706	50.96	ppm	100
91)	bis(2-Ethylhexyl)phthalate	14.90	149	3222419	50.85	ppm	100
93)	Di-n-octylphthalate	16.35	149	5703091	52.56	ppm	100
94)	Benzo[b]fluoranthene	16.84	252	3787237	51.78	ppm	98
95)	Benzo[k]fluoranthene	16.91	252	3710262	52.01	ppm	98
96)	Benzo[a]pyrene	17.48	252	3518005	52.01	ppm	100
97)	Indeno[1,2,3-cd]pyrene	19.54	276	3276791	51.83	ppm	100
98)	Dibenz(a,h)acridine	19.18	279	2819743	51.70	ppm	100
99)	Dibenz[a,h]anthracene	19.60	278	3172655	50.59	ppm	100
100)	7,12-Dimethylbenz(a)anthra	16.87	256	1624656	52.42	ppm	100
101)	Benzo[g,h,i]perylene	19.98	276	3454887	51.57	ppm	100

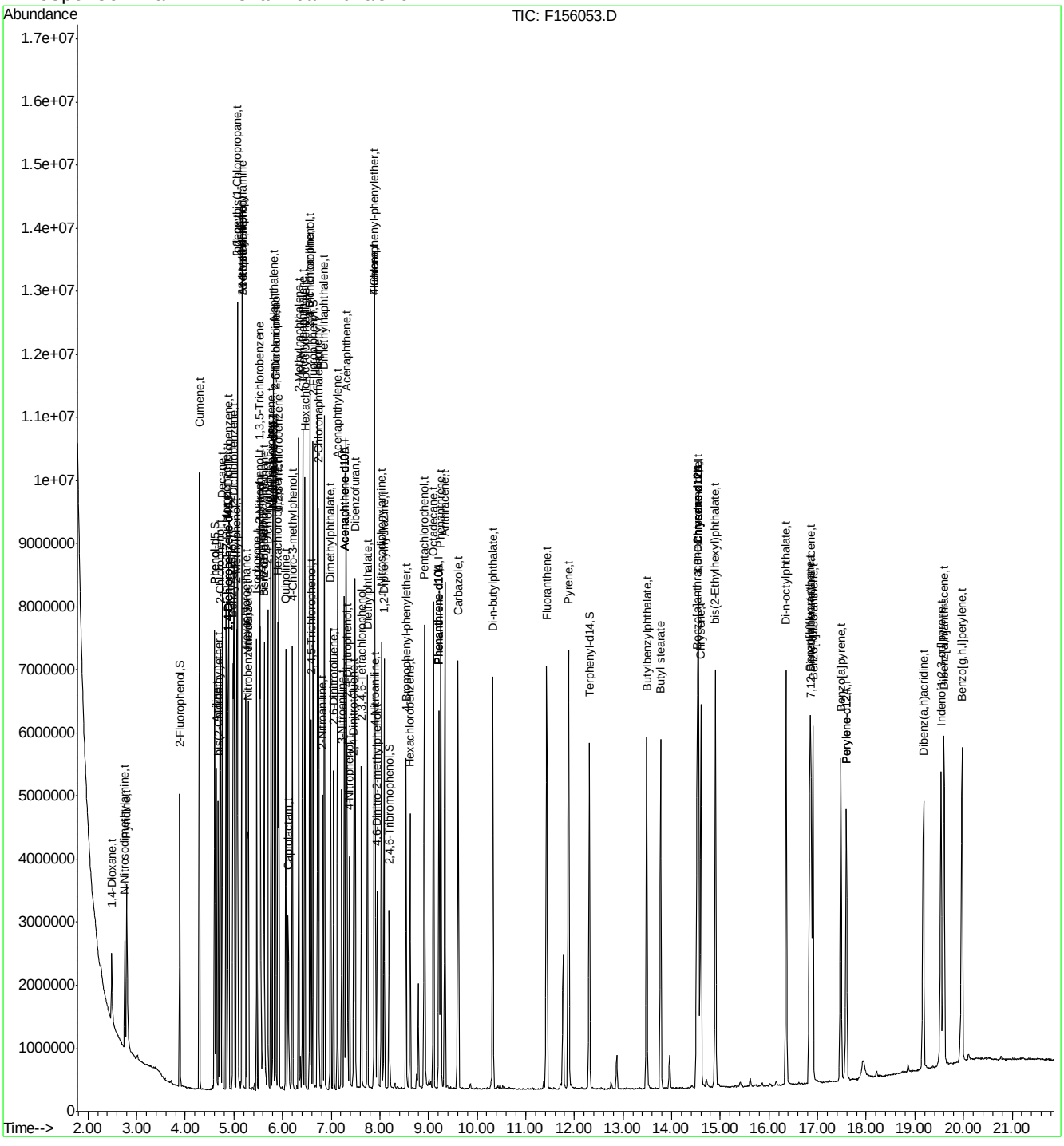
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC21347

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6563\F156053.D Vial: 4
Acq On : 4 Apr 2016 8:07 pm Operator: sarad
Sample : icc6563-50 Inst : MSF
Misc : op92661,ef6563,100 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 5 8:47 2016 Quant Results File: MF6563.RES

Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Apr 05 08:46:00 2016
Response via : Initial Calibration



SGS ACCUTEST JC21347

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6563\F156054.D Vial: 5
Acq On : 4 Apr 2016 8:37 pm Operator: sarad
Sample : ic6563-25 Inst : MSF
Misc : op92661,ef6563,100 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 05 08:51:15 2016 Quant Results File: MF6563.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Apr 05 08:51:13 2016
Response via : Initial Calibration
DataAcq Meth : MF6563

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.88	152	863972	40.00	ppm	0.00
24) Naphthalene-d8	5.80	136	3172306	40.00	ppm	0.00
47) Acenaphthene-d10	7.27	164	1883448	40.00	ppm	0.00
69) Phenanthrene-d10	9.22	188	3035235	40.00	ppm	0.00
83) Chrysene-d12	14.54	240	2628411	40.00	ppm	0.00
92) Perylene-d12	17.59	264	2496395	40.00	ppm	0.00
102) 1,4-Dichlorobenzene-d4A	4.88	152	863972	40.00	ppm	0.00
112) Naphthalene-d8A	5.80	136	3172306	40.00	ppm	0.00
121) Acenaphthene-d10A	7.27	164	1883448	40.00	ppm	0.00
132) Phenanthrene-d10A	9.22	188	3035235	40.00	ppm	0.00
147) Chrysene-d12A	14.54	240	2628411	40.00	ppm	0.00
155) Perylene-d12A	17.59	264	2496395	40.00	ppm	0.00
159) 1,4-Dichlorobenzene-d4b	4.88	152	863972	40.00	ppm	0.00
161) Naphthalene-d8b	5.80	136	3172306	40.00	ppm	0.00
163) Acenaphthene-d10b	7.27	164	1883448	40.00	ppm	0.00
165) Phenanthrene-d10b	9.22	188	3035235	40.00	ppm	0.00
167) Chrysene-d12b	14.54	240	2628411	40.00	ppm	0.00
169) 1,4-Dichlorobenzene-d4c	4.88	152	863972	40.00	ppm	0.00
171) Naphthalene-d8c	5.80	136	3172306	40.00	ppm	0.00
176) Chrysene-d12c	14.54	240	2628411	40.00	ppm	0.00
178) Naphthalene-d8a	5.80	136	3172306	40.00	ppm	0.15
180) Chrysene-d12B	14.54	240	2628411	40.00	ppm	0.24
System Monitoring Compounds						
5) 2-Fluorophenol	3.88	112	752440	25.82	ppm	0.00
Spiked Amount 50.000			Recovery = 51.64%			
8) Phenol-d5	4.60	99	912194	26.24	ppm	0.00
Spiked Amount 50.000			Recovery = 52.48%			
25) Nitrobenzene-d5	5.28	82	742392	26.06	ppm	0.00
Spiked Amount 50.000			Recovery = 52.12%			
51) 2-Fluorobiphenyl	6.63	172	1516539	28.90	ppm	0.00
Spiked Amount 50.000			Recovery = 57.80%			
73) 2,4,6-Tribromophenol	8.19	330	156688	25.97	ppm	0.00
Spiked Amount 50.000			Recovery = 51.94%			
85) Terphenyl-d14	12.30	244	1350753	25.70	ppm	0.00
Spiked Amount 50.000			Recovery = 51.40%			
Target Compounds						Qvalue
2) 1,4-Dioxane	2.49	88	300998	24.02	ppm	92
3) Pyridine	2.79	79	803322	25.24	ppm	97
4) N-Nitrosodimethylamine	2.76	42	267516	24.06	ppm	91
6) Indene	5.07	116	1283677	29.16	ppm	99
7) Cumene	4.29	105	1729204	27.70	ppm	99
9) Phenol	4.61	94	960339	25.36	ppm	88
10) Aniline	4.63	93	1040023	28.06	ppm	99
11) bis(2-Chloroethyl)ether	4.68	93	693596	26.12	ppm	98
12) 2-Chlorophenol	4.72	128	794091	26.91	ppm	97
13) Decane	4.76	43	685617	28.36	ppm	98
14) 1,3-Dichlorobenzene	4.84	146	888469	27.51	ppm	98
15) 1,4-Dichlorobenzene	4.89	146	886953	27.50	ppm	97

(#) = qualifier out of range (m) = manual integration
F156054.D MF6563.M Tue Apr 05 08:55:03 2016 RT1

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6563\F156054.D Vial: 5
Acq On : 4 Apr 2016 8:37 pm Operator: sarad
Sample : ic6563-25 Inst : MSF
Misc : op92661,ef6563,100 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 05 08:51:15 2016 Quant Results File: MF6563.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Apr 05 08:51:13 2016
Response via : Initial Calibration
DataAcq Meth : MF6563

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
16) Benzyl alcohol	4.97	108	502295	26.30 ppm	98
17) 1,2-Dichlorobenzene	5.01	146	840153	28.38 ppm	98
18) Acetophenone	5.17	105	971192	29.45 ppm	89
19) 2-Methylphenol	5.05	108	686123	27.05 ppm	97
20) 2,2'-oxybis(1-Chloropropan	5.08	121	246770	27.32 ppm	99
21) 3&4-Methylphenol	5.16	108	709224	28.49 ppm	99
22) n-Nitroso-di-n-propylamine	5.17	70	507230	27.26 ppm	99
23) Hexachloroethane	5.25	201	272875	27.06 ppm	96
26) Nitrobenzene	5.29	77	787089	26.64 ppm	95
27) Quinoline	6.06	129	1538109	26.79 ppm	98
28) Isophorone	5.47	82	1342384	27.41 ppm	98
29) 2-Nitrophenol	5.52	139	416350	27.99 ppm	96
30) 2,4-Dimethylphenol	5.55	107	634238	24.85 ppm	98
31) Benzoic acid	5.61	105	560004	24.39 ppm	94
32) bis(2-Chloroethoxy)methane	5.62	93	828882	27.39 ppm	99
33) 2,4-Dichlorophenol	5.70	162	644033	27.51 ppm	97
34) 2,6-Dichlorophenol	5.86	162	612096	29.02 ppm	98
35) 1,3,5-Trichlorobenzene	5.54	180	673723	29.81 ppm	99
36) 1,2,4-Trichlorobenzene	5.76	180	660441	28.08 ppm	98
37) 1,2,3-Trichlorobenzene	5.92	180	642498	27.96 ppm	100
38) Naphthalene	5.82	128	2197280	30.43 ppm	98
39) 4-Chloroaniline	5.85	127	899321	29.62 ppm	97
40) 2,3-Dichloroaniline	6.56	161	746079	30.69 ppm	99
41) Caprolactam	6.10	55	301563	25.55 ppm	98
42) Hexachlorobutadiene	5.90	225	317763	29.13 ppm	99
43) 4-Chloro-3-methylphenol	6.20	107	625695	26.59 ppm	98
44) 2-Methylnaphthalene	6.33	141	1231532	28.61 ppm	99
45) 1-Methylnaphthalene	6.41	141	1267730	28.59 ppm	99
46) Dimethylnaphthalene	6.86	156	1299211	28.95 ppm	98
48) Hexachlorocyclopentadiene	6.46	237	688873	59.18 ppm	99
49) 2,4,6-Trichlorophenol	6.56	196	398885	29.80 ppm	97
50) 2,4,5-Trichlorophenol	6.59	196	444742	27.13 ppm	99
52) 2-Chloronaphthalene	6.74	162	1358812	28.16 ppm	97
53) Biphenyl	6.72	154	1783507	29.56 ppm	99
54) 2-Nitroaniline	6.82	65	394873	25.62 ppm	91
55) Dimethylphthalate	6.98	163	1540455	27.71 ppm	99
56) Acenaphthylene	7.13	152	2244918	28.99 ppm	99
57) 2,6-Dinitrotoluene	7.05	165	338348	25.93 ppm	91
58) 3-Nitroaniline	7.21	138	432182	26.55 ppm	97
59) Acenaphthene	7.30	153	1404418	29.06 ppm	99
60) 2,4-Dinitrophenol	7.32	184	362949	46.49 ppm	85
61) 4-Nitrophenol	7.37	109	201885	25.03 ppm	97
62) Dibenzofuran	7.49	168	1900959	28.57 ppm	97
63) 2,4-Dinitrotoluene	7.46	165	472912	26.39 ppm	98
64) 2,3,4,6-Tetrachlorophenol	7.62	232	342001	27.00 ppm	97
65) Diethylphthalate	7.74	149	1515673	27.29 ppm	99
66) Fluorene	7.89	166	1468152	30.40 ppm	100
67) 4-Chlorophenyl-phenylether	7.89	204	635326	30.66 ppm	98
68) 4-Nitroaniline	7.90	138	421135	25.81 ppm	98

(#) = qualifier out of range (m) = manual integration
F156054.D MF6563.M Tue Apr 05 08:55:03 2016 RT1

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6563\F156054.D Vial: 5
Acq On : 4 Apr 2016 8:37 pm Operator: sarad
Sample : ic6563-25 Inst : MSF
Misc : op92661,ef6563,100 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 05 08:51:15 2016 Quant Results File: MF6563.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Apr 05 08:51:13 2016
Response via : Initial Calibration
DataAcq Meth : MF6563

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
70)	4,6-Dinitro-2-methylphenol	7.94	198	246086	23.58	ppm	97
71)	n-Nitrosodiphenylamine	8.03	169	1095544	27.70	ppm	98
72)	1,2-Diphenylhydrazine	8.09	77	1514394	26.80	ppm	97
74)	4-Bromophenyl-phenylether	8.54	248	374041	28.28	ppm	96
75)	Hexachlorobenzene	8.62	284	344952	27.28	ppm	95
76)	Pentachlorophenol	8.91	266	505532	57.77	ppm	98
77)	Phenanthrene	9.25	178	2198868	28.64	ppm	98
78)	Anthracene	9.33	178	2208822	28.27	ppm	100
79)	Carbazole	9.61	167	2104374	28.33	ppm	98
80)	Di-n-butylphthalate	10.32	149	2655403	27.95	ppm	100
81)	Fluoranthene	11.43	202	2205706	27.57	ppm	100
82)	Octadecane	9.10	57	918139	28.14	ppm	99
84)	Pyrene	11.88	202	2354708	25.79	ppm	99
86)	Butylbenzylphthalate	13.48	149	1160576	24.47	ppm	99
87)	Butyl stearate	13.77	56	647006	24.74	ppm	98
88)	Benzo[a]anthracene	14.52	228	1967547	25.14	ppm	99
89)	3,3'-Dichlorobenzidine	14.55	252	702116	24.70	ppm	98
90)	Chrysene	14.60	228	1973288	25.50	ppm	100
91)	bis(2-Ethylhexyl)phthalate	14.89	149	1641094	24.90	ppm	100
93)	Di-n-octylphthalate	16.35	149	2891187	26.74	ppm	100
94)	Benzo[b]fluoranthene	16.83	252	1957203	27.04	ppm	99
95)	Benzo[k]fluoranthene	16.89	252	1936392	27.42	ppm	98
96)	Benzo[a]pyrene	17.47	252	1798129	26.71	ppm	99
97)	Indeno[1,2,3-cd]pyrene	19.53	276	1680946	26.64	ppm	96
98)	Dibenz(a,h)acridine	19.17	279	1452033	26.68	ppm	99
99)	Dibenz[a,h]anthracene	19.59	278	1627629	26.33	ppm	99
100)	7,12-Dimethylbenz(a)anthra	16.86	256	823820	26.64	ppm	99
101)	Benzo[g,h,i]perylene	19.96	276	1813089	27.19	ppm	98

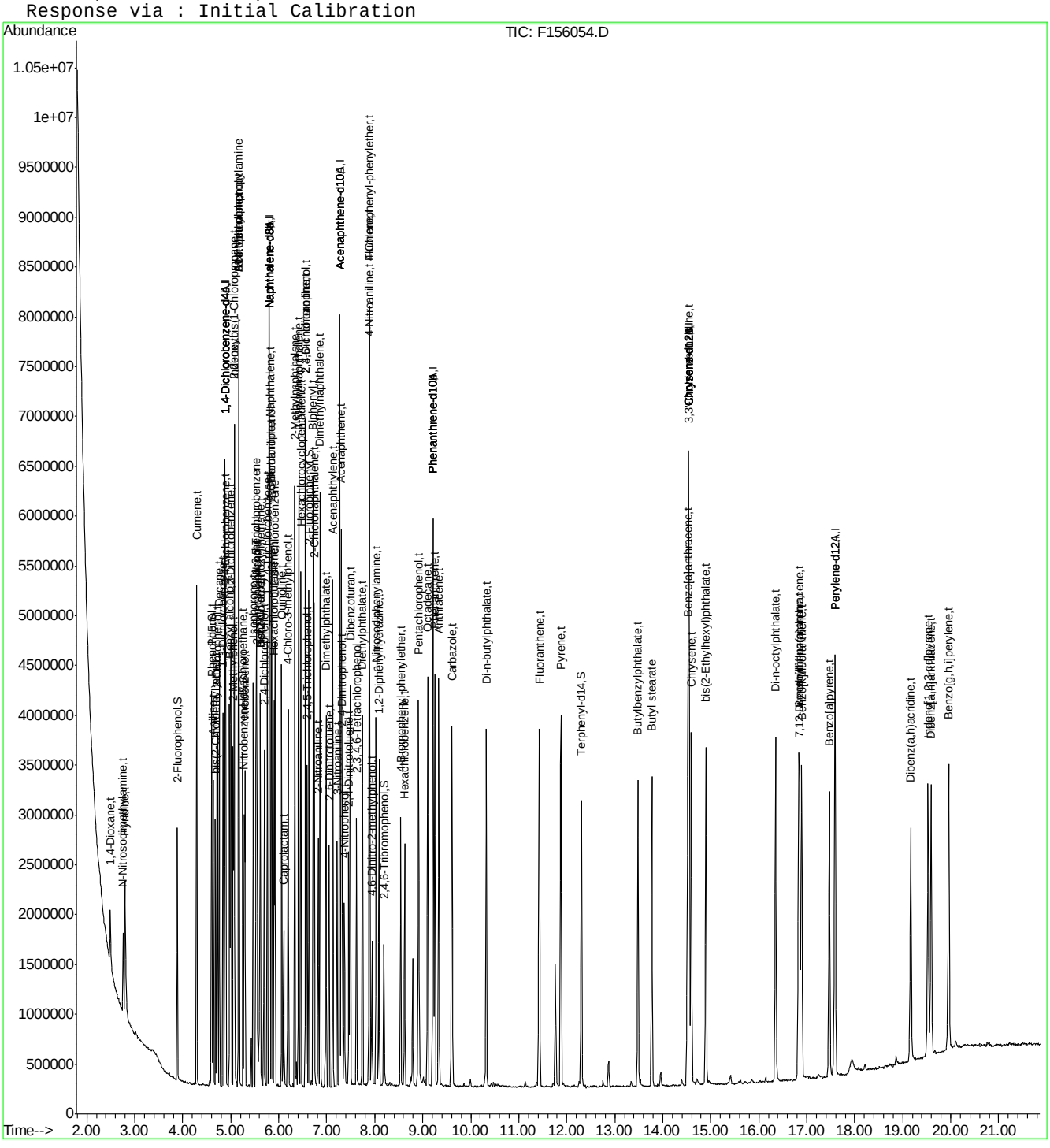
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC21347

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6563\F156054.D Vial: 5
Acq On : 4 Apr 2016 8:37 pm Operator: sarad
Sample : ic6563-25 Inst : MSF
Misc : op92661,ef6563,100 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 5 8:54 2016 Quant Results File: MF6563.RES

Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Apr 05 08:51:13 2016
Response via : Initial Calibration



SGS ACCUTEST JC21347

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6563\F156055.D Vial: 6
Acq On : 4 Apr 2016 9:06 pm Operator: sarad
Sample : ic6563-10 Inst : MSF
Misc : op92661,ef6563,100 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 05 08:14:11 2016 Quant Results File: MF6563.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Apr 05 08:13:49 2016
Response via : Initial Calibration
DataAcq Meth : MF6563

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.88	152	905594	40.00	ppm	0.00
24) Naphthalene-d8	5.80	136	3313258	40.00	ppm	0.00
47) Acenaphthene-d10	7.27	164	1977563	40.00	ppm	0.00
69) Phenanthrene-d10	9.21	188	3195086	40.00	ppm	0.00
83) Chrysene-d12	14.54	240	2841277	40.00	ppm	-0.01
92) Perylene-d12	17.59	264	2625091	40.00	ppm	0.00
102) 1,4-Dichlorobenzene-d4A	4.88	152	905594	40.00	ppm	0.00
112) Naphthalene-d8A	5.80	136	3313258	40.00	ppm	0.00
121) Acenaphthene-d10A	7.27	164	1977563	40.00	ppm	0.00
132) Phenanthrene-d10A	9.21	188	3195086	40.00	ppm	0.00
147) Chrysene-d12A	14.54	240	2841277	40.00	ppm	-0.01
155) Perylene-d12A	17.59	264	2625091	40.00	ppm	-0.11
159) 1,4-Dichlorobenzene-d4b	4.88	152	905594	40.00	ppm	0.00
161) Naphthalene-d8b	5.80	136	3313258	40.00	ppm	0.00
163) Acenaphthene-d10b	7.27	164	1977563	40.00	ppm	0.00
165) Phenanthrene-d10b	9.21	188	3195086	40.00	ppm	0.00
167) Chrysene-d12b	14.54	240	2841277	40.00	ppm	-0.01
169) 1,4-Dichlorobenzene-d4c	4.88	152	905594	40.00	ppm	0.00
171) Naphthalene-d8c	5.80	136	3313258	40.00	ppm	0.00
176) Chrysene-d12c	14.54	240	2841277	40.00	ppm	-0.01
178) Naphthalene-d8a	5.80	136	3313258	40.00	ppm	0.15
180) Chrysene-d12B	14.54	240	2841277	40.00	ppm	0.23
System Monitoring Compounds						
5) 2-Fluorophenol	3.88	112	318354	10.42	ppm	0.00
Spiked Amount 50.000			Recovery = 20.84%			
8) Phenol-d5	4.60	99	398798	10.95	ppm	0.00
Spiked Amount 50.000			Recovery = 21.90%			
25) Nitrobenzene-d5	5.28	82	320247	10.73	ppm	0.00
Spiked Amount 50.000			Recovery = 21.46%			
51) 2-Fluorobiphenyl	6.63	172	673076	12.20	ppm	0.00
Spiked Amount 50.000			Recovery = 24.40%			
73) 2,4,6-Tribromophenol	8.19	330	66985	10.52	ppm	0.00
Spiked Amount 50.000			Recovery = 21.04%			
85) Terphenyl-d14	12.30	244	580883	10.26	ppm	0.00
Spiked Amount 50.000			Recovery = 20.52%			
Target Compounds						Qvalue
2) 1,4-Dioxane	2.49	88	156183	11.86	ppm	97
3) Pyridine	2.80	79	349091	10.51	ppm	99
4) N-Nitrosodimethylamine	2.76	42	113073	8.87	ppm	97
6) Indene	5.07	116	570276	12.31	ppm	100
7) Cumene	4.29	105	746757	11.46	ppm	99
9) Phenol	4.61	94	411742	10.58	ppm	94
10) Aniline	4.63	93	477431	12.36	ppm	99
11) bis(2-Chloroethyl)ether	4.68	93	302414	10.87	ppm	98
12) 2-Chlorophenol	4.72	128	344498	11.11	ppm	96
13) Decane	4.76	43	298455	11.75	ppm	97
14) 1,3-Dichlorobenzene	4.84	146	391842	11.55	ppm	97
15) 1,4-Dichlorobenzene	4.89	146	393136	11.63	ppm	99

(#) = qualifier out of range (m) = manual integration
F156055.D MF6563.M Tue Apr 05 08:56:35 2016 RT1

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6563\F156055.D Vial: 6
Acq On : 4 Apr 2016 9:06 pm Operator: sarad
Sample : ic6563-10 Inst : MSF
Misc : op92661,ef6563,100 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 05 08:14:11 2016 Quant Results File: MF6563.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Apr 05 08:13:49 2016
Response via : Initial Calibration
DataAcq Meth : MF6563

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
16)	Benzyl alcohol	4.97	108	222777	11.09	ppm		97
17)	1,2-Dichlorobenzene	5.00	146	367366	11.76	ppm		98
18)	Acetophenone	5.17	105	439501	12.65	ppm		95
19)	2-Methylphenol	5.05	108	299562	11.25	ppm		99
20)	2,2'-oxybis(1-Chloropropan	5.08	121	107662	11.31	ppm		96
21)	3&4-Methylphenol	5.16	108	316195	12.07	ppm		99
22)	n-Nitroso-di-n-propylamine	5.17	70	227077	11.63	ppm		98
23)	Hexachloroethane	5.25	201	116924	11.06	ppm		95
26)	Nitrobenzene	5.29	77	340147	11.00	ppm		92
27)	Quinoline	6.06	129	667853	11.17	ppm		99
28)	Isophorone	5.47	82	580700	11.34	ppm		100
29)	2-Nitrophenol	5.52	139	179684	11.51	ppm		92
30)	2,4-Dimethylphenol	5.55	107	267013	10.04	ppm		96
31)	Benzoic acid	5.59	105	225890	9.65	ppm	#	74
32)	bis(2-Chloroethoxy)methane	5.62	93	364338	11.51	ppm		98
33)	2,4-Dichlorophenol	5.69	162	279178	11.41	ppm		97
34)	2,6-Dichlorophenol	5.86	162	271818	12.30	ppm		96
35)	1,3,5-Trichlorobenzene	5.54	180	299476	12.56	ppm		97
36)	1,2,4-Trichlorobenzene	5.76	180	289266	11.74	ppm		99
37)	1,2,3-Trichlorobenzene	5.92	180	280336	11.61	ppm		99
38)	Naphthalene	5.82	128	990453	13.07	ppm		98
39)	4-Chloroaniline	5.85	127	411341	12.93	ppm		96
40)	2,3-Dichloroaniline	6.56	161	341826	13.40	ppm		97
41)	Caprolactam	6.09	55	128773	10.52	ppm		95
42)	Hexachlorobutadiene	5.90	225	137961	12.09	ppm		97
43)	4-Chloro-3-methylphenol	6.19	107	271558	11.09	ppm		99
44)	2-Methylnaphthalene	6.33	141	549250	12.17	ppm		98
45)	1-Methylnaphthalene	6.41	141	562852	12.07	ppm		98
46)	Dimethylnaphthalene	6.86	156	568349	12.07	ppm		97
48)	Hexachlorocyclopentadiene	6.46	237	295404	24.10	ppm		100
49)	2,4,6-Trichlorophenol	6.56	196	183214	12.96	ppm		97
50)	2,4,5-Trichlorophenol	6.58	196	189673	11.13	ppm		98
52)	2-Chloronaphthalene	6.74	162	606809	11.97	ppm		99
53)	Biphenyl	6.72	154	783724	12.33	ppm		98
54)	2-Nitroaniline	6.82	65	168174	10.45	ppm		93
55)	Dimethylphthalate	6.98	163	669711	11.52	ppm		99
56)	Acenaphthylene	7.13	152	984619	12.17	ppm		98
57)	2,6-Dinitrotoluene	7.04	165	144184	10.56	ppm		99
58)	3-Nitroaniline	7.21	138	181727	10.69	ppm		93
59)	Acenaphthene	7.30	153	609405	12.01	ppm		99
60)	2,4-Dinitrophenol	7.32	184	130327	16.05	ppm		78
61)	4-Nitrophenol	7.36	109	80472	9.48	ppm		94
62)	Dibenzofuran	7.49	168	843891	12.09	ppm		98
63)	2,4-Dinitrotoluene	7.46	165	195395	10.45	ppm		97
64)	2,3,4,6-Tetrachlorophenol	7.62	232	145578	11.02	ppm		97
65)	Diethylphthalate	7.74	149	649860	11.15	ppm		98
66)	Fluorene	7.89	166	666627	13.13	ppm		97
67)	4-Chlorophenyl-phenylether	7.89	204	292638	13.39	ppm		95
68)	4-Nitroaniline	7.89	138	183728	10.82	ppm		96

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6563\F156055.D Vial: 6
Acq On : 4 Apr 2016 9:06 pm Operator: sarad
Sample : ic6563-10 Inst : MSF
Misc : op92661,ef6563,100 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 05 08:14:11 2016 Quant Results File: MF6563.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Apr 05 08:13:49 2016
Response via : Initial Calibration
DataAcq Meth : MF6563

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
70)	4,6-Dinitro-2-methylphenol	7.93	198	92062	8.42	ppm	96
71)	n-Nitrosodiphenylamine	8.03	169	476719	11.47	ppm	99
72)	1,2-Diphenylhydrazine	8.08	77	657054	11.05	ppm	98
74)	4-Bromophenyl-phenylether	8.54	248	158586	11.44	ppm	96
75)	Hexachlorobenzene	8.62	284	153731	11.57	ppm	97
76)	Pentachlorophenol	8.91	266	205675	22.30	ppm	95
77)	Phenanthrene	9.25	178	978306	12.14	ppm	98
78)	Anthracene	9.33	178	967667	11.73	ppm	99
79)	Carbazole	9.61	167	912387	11.65	ppm	99
80)	Di-n-butylphthalate	10.32	149	1128842	11.33	ppm	100
81)	Fluoranthene	11.42	202	946511	11.26	ppm	100
82)	Octadecane	9.10	57	398210	11.52	ppm	98
84)	Pyrene	11.87	202	1015323	10.30	ppm	99
86)	Butylbenzylphthalate	13.48	149	485601	9.54	ppm	97
87)	Butyl stearate	13.77	56	271564	9.58	ppm	99
88)	Benzo[a]anthracene	14.52	228	842177	10.03	ppm	99
89)	3,3'-Dichlorobenzidine	14.55	252	303885	10.00	ppm	98
90)	Chrysene	14.59	228	857826	10.30	ppm	100
91)	bis(2-Ethylhexyl)phthalate	14.89	149	683429	9.60	ppm	97
93)	Di-n-octylphthalate	16.35	149	1196588	10.50	ppm	99
94)	Benzo[b]fluoranthene	16.83	252	846094	11.04	ppm	98
95)	Benzo[k]fluoranthene	16.89	252	829903	10.90	ppm	99
96)	Benzo[a]pyrene	17.46	252	754900	10.63	ppm	98
97)	Indeno[1,2,3-cd]pyrene	19.52	276	702662	10.64	ppm	94
98)	Dibenz(a,h)acridine	19.16	279	610277	10.70	ppm	100
99)	Dibenz[a,h]anthracene	19.58	278	696447	10.67	ppm	97
100)	7,12-Dimethylbenz(a)anthra	16.84	256	325014	10.04	ppm	99
101)	Benzo[g,h,i]perylene	19.95	276	764066	10.94	ppm	97

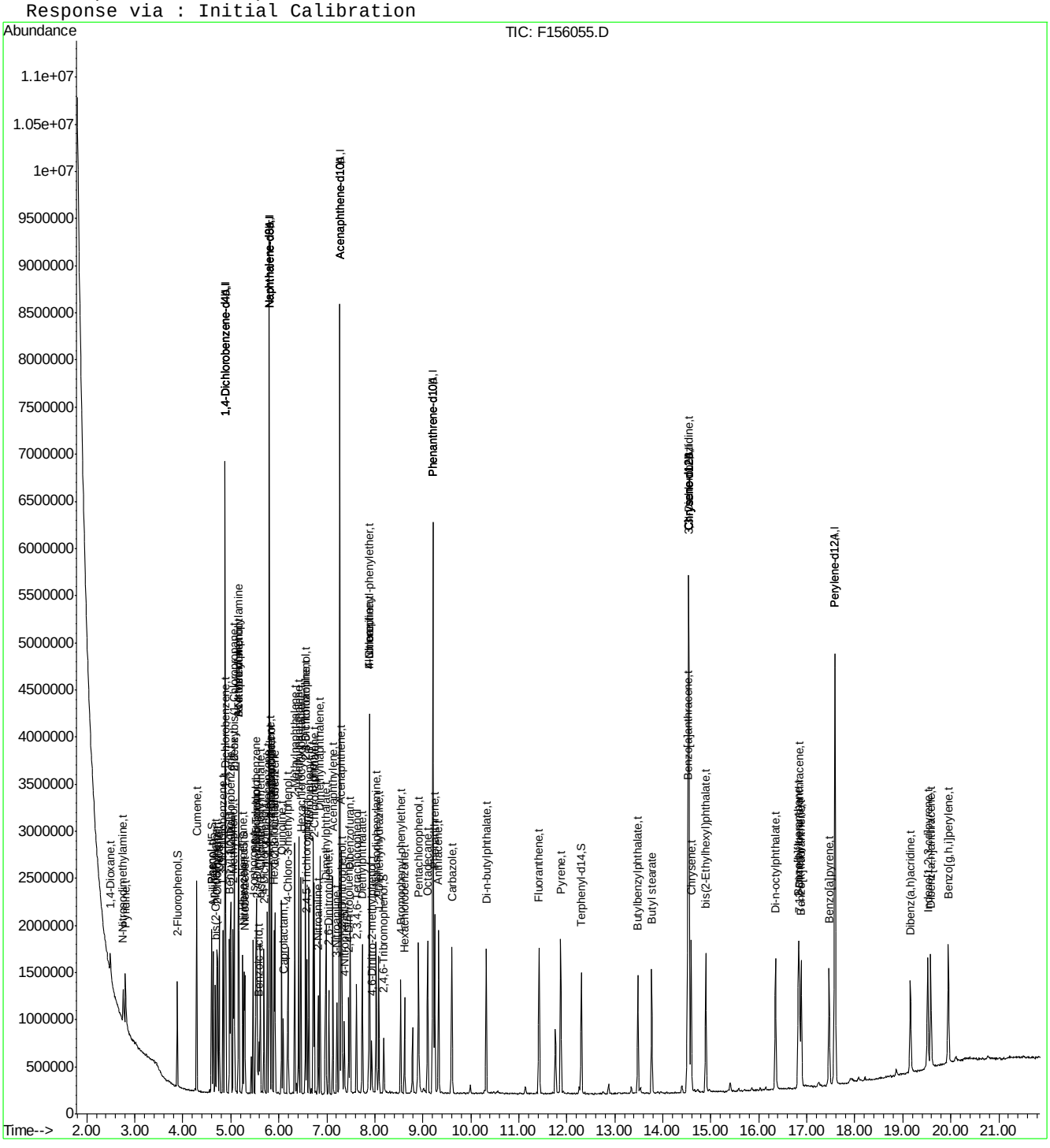
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC21347

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6563\F156055.D Vial: 6
Acq On : 4 Apr 2016 9:06 pm Operator: sarad
Sample : ic6563-10 Inst : MSF
Misc : op92661,ef6563,100 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 5 8:56 2016 Quant Results File: MF6563.RES

Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Apr 05 08:55:08 2016
Response via : Initial Calibration



SGS ACCUTEST JC21347

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6563\F156056.D Vial: 7
Acq On : 4 Apr 2016 9:35 pm Operator: sarad
Sample : ic6563-5 Inst : MSF
Misc : op92661,ef6563,100 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 05 08:14:13 2016 Quant Results File: MF6563.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Apr 05 08:13:49 2016
Response via : Initial Calibration
DataAcq Meth : MF6563

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.88	152	931507	40.00	ppm	0.00
24) Naphthalene-d8	5.80	136	3436758	40.00	ppm	0.00
47) Acenaphthene-d10	7.27	164	2021007	40.00	ppm	0.00
69) Phenanthrene-d10	9.21	188	3225697	40.00	ppm	0.00
83) Chrysene-d12	14.54	240	2893026	40.00	ppm	-0.01
92) Perylene-d12	17.59	264	2659500	40.00	ppm	0.00
102) 1,4-Dichlorobenzene-d4A	4.88	152	931507	40.00	ppm	0.00
112) Naphthalene-d8A	5.80	136	3436758	40.00	ppm	0.00
121) Acenaphthene-d10A	7.27	164	2021007	40.00	ppm	0.00
132) Phenanthrene-d10A	9.21	188	3225697	40.00	ppm	0.00
147) Chrysene-d12A	14.54	240	2893026	40.00	ppm	-0.01
155) Perylene-d12A	17.59	264	2659500	40.00	ppm	-0.11
159) 1,4-Dichlorobenzene-d4b	4.88	152	931507	40.00	ppm	0.00
161) Naphthalene-d8b	5.80	136	3436758	40.00	ppm	0.00
163) Acenaphthene-d10b	7.27	164	2021007	40.00	ppm	0.00
165) Phenanthrene-d10b	9.21	188	3225697	40.00	ppm	0.00
167) Chrysene-d12b	14.54	240	2893026	40.00	ppm	-0.01
169) 1,4-Dichlorobenzene-d4c	4.88	152	931507	40.00	ppm	0.00
171) Naphthalene-d8c	5.80	136	3436758	40.00	ppm	0.00
176) Chrysene-d12c	14.54	240	2893026	40.00	ppm	-0.01
178) Naphthalene-d8a	5.80	136	3436758	40.00	ppm	0.15
180) Chrysene-d12B	14.54	240	2893026	40.00	ppm	0.23

System Monitoring Compounds						
5) 2-Fluorophenol	3.88	112	171255	5.45	ppm	0.00
Spiked Amount 50.000			Recovery	=	10.90%	
8) Phenol-d5	4.59	99	207335	5.53	ppm	0.00
Spiked Amount 50.000			Recovery	=	11.06%	
25) Nitrobenzene-d5	5.28	82	169051	5.46	ppm	0.00
Spiked Amount 50.000			Recovery	=	10.92%	
51) 2-Fluorobiphenyl	6.63	172	352630	6.25	ppm	0.00
Spiked Amount 50.000			Recovery	=	12.50%	
73) 2,4,6-Tribromophenol	8.18	330	34343	5.34	ppm	-0.01
Spiked Amount 50.000			Recovery	=	10.68%	
85) Terphenyl-d14	12.30	244	301180	5.22	ppm	0.00
Spiked Amount 50.000			Recovery	=	10.44%	

Target Compounds						Qvalue
2) 1,4-Dioxane	2.49	88	87752	6.48	ppm	95
3) Pyridine	2.81	79	176084	5.15	ppm	98
4) N-Nitrosodimethylamine	2.76	42	63395	4.83	ppm	96
6) Indene	5.07	116	305528	6.41	ppm	99
7) Cumene	4.29	105	397141	5.93	ppm	97
9) Phenol	4.61	94	216569	5.41	ppm	93
10) Aniline	4.63	93	257505	6.48	ppm	92
11) bis(2-Chloroethyl)ether	4.68	93	162439	5.68	ppm	99
12) 2-Chlorophenol	4.72	128	184524	5.79	ppm	98
13) Decane	4.76	43	158573	6.07	ppm	95
14) 1,3-Dichlorobenzene	4.84	146	203800	5.84	ppm	100
15) 1,4-Dichlorobenzene	4.89	146	208865	6.01	ppm	96

(#) = qualifier out of range (m) = manual integration
F156056.D MF6563.M Tue Apr 05 08:57:58 2016 RT1

SGS ACCUTEST JC21347

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6563\F156056.D Vial: 7
Acq On : 4 Apr 2016 9:35 pm Operator: sarad
Sample : ic6563-5 Inst : MSF
Misc : op92661,ef6563,100 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 05 08:14:13 2016 Quant Results File: MF6563.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Apr 05 08:13:49 2016
Response via : Initial Calibration
DataAcq Meth : MF6563

Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
16) Benzyl alcohol	4.97	108	115910	5.61	ppm		97
17) 1,2-Dichlorobenzene	5.00	146	195335	6.08	ppm		98
18) Acetophenone	5.17	105	235469	6.59	ppm		92
19) 2-Methylphenol	5.05	108	157196	5.74	ppm		98
20) 2,2'-oxybis(1-Chloropropan	5.08	121	59923	6.12	ppm		93
21) 3&4-Methylphenol	5.16	108	167369	6.21	ppm		98
22) n-Nitroso-di-n-propylamine	5.17	70	123649	6.16	ppm		95
23) Hexachloroethane	5.25	201	63788	5.87	ppm		90
26) Nitrobenzene	5.29	77	179935	5.61	ppm		98
27) Quinoline	6.06	129	349968	5.64	ppm		99
28) Isophorone	5.46	82	306735	5.78	ppm		96
29) 2-Nitrophenol	5.52	139	94069	5.81	ppm		92
30) 2,4-Dimethylphenol	5.55	107	139481	5.06	ppm		94
31) Benzoic acid	5.57	105	114126	4.70	ppm		91
32) bis(2-Chloroethoxy)methane	5.62	93	195998	5.97	ppm		98
33) 2,4-Dichlorophenol	5.69	162	145285	5.72	ppm		97
34) 2,6-Dichlorophenol	5.86	162	144546	6.31	ppm		99
35) 1,3,5-Trichlorobenzene	5.53	180	164116	6.64	ppm		96
36) 1,2,4-Trichlorobenzene	5.76	180	152578	5.97	ppm		98
37) 1,2,3-Trichlorobenzene	5.92	180	151509	6.05	ppm		97
38) Naphthalene	5.82	128	525580	6.69	ppm		99
39) 4-Chloroaniline	5.85	127	217464	6.59	ppm		98
40) 2,3-Dichloroaniline	6.56	161	176515	6.67	ppm		98
41) Caprolactam	6.09	55	64409	5.07	ppm		94
42) Hexachlorobutadiene	5.90	225	70966	5.99	ppm		97
43) 4-Chloro-3-methylphenol	6.19	107	146701	5.78	ppm		99
44) 2-Methylnaphthalene	6.33	141	291321	6.22	ppm		95
45) 1-Methylnaphthalene	6.41	141	300622	6.22	ppm		97
46) Dimethylnaphthalene	6.85	156	305639	6.26	ppm		98
48) Hexachlorocyclopentadiene	6.46	237	149951	11.97	ppm		99
49) 2,4,6-Trichlorophenol	6.56	196	95389	6.60	ppm		96
50) 2,4,5-Trichlorophenol	6.58	196	102296	5.88	ppm		96
52) 2-Chloronaphthalene	6.74	162	320335	6.19	ppm		98
53) Biphenyl	6.72	154	413488	6.37	ppm		98
54) 2-Nitroaniline	6.82	65	87377	5.31	ppm		100
55) Dimethylphthalate	6.98	163	349340	5.88	ppm		100
56) Acenaphthylene	7.13	152	517726	6.26	ppm		98
57) 2,6-Dinitrotoluene	7.04	165	73798	5.29	ppm		94
58) 3-Nitroaniline	7.21	138	91856	5.28	ppm		96
59) Acenaphthene	7.30	153	332260	6.41	ppm		99
60) 2,4-Dinitrophenol	7.31	184	55130	6.64	ppm	#	24
61) 4-Nitrophenol	7.36	109	41361	4.77	ppm		98
62) Dibenzofuran	7.49	168	449077	6.29	ppm		96
63) 2,4-Dinitrotoluene	7.46	165	100620	5.26	ppm		77
64) 2,3,4,6-Tetrachlorophenol	7.62	232	75026	5.56	ppm		98
65) Diethylphthalate	7.74	149	340318	5.71	ppm		98
66) Fluorene	7.89	166	360051	6.94	ppm		97
67) 4-Chlorophenyl-phenylether	7.89	204	156209	7.00	ppm		90
68) 4-Nitroaniline	7.89	138	94299	5.44	ppm		96

(#) = qualifier out of range (m) = manual integration

SGS ACCUTEST JC21347

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6563\F156056.D Vial: 7
Acq On : 4 Apr 2016 9:35 pm Operator: sarad
Sample : ic6563-5 Inst : MSF
Misc : op92661,ef6563,100 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 05 08:14:13 2016 Quant Results File: MF6563.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Apr 05 08:13:49 2016
Response via : Initial Calibration
DataAcq Meth : MF6563

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
70)	4,6-Dinitro-2-methylphenol	7.93	198	40513	3.67	ppm	96
71)	n-Nitrosodiphenylamine	8.02	169	253978	6.05	ppm	99
72)	1,2-Diphenylhydrazine	8.08	77	341978	5.70	ppm	98
74)	4-Bromophenyl-phenylether	8.54	248	85099	6.08	ppm	94
75)	Hexachlorobenzene	8.62	284	81969	6.11	ppm	94
76)	Pentachlorophenol	8.91	266	106497	11.44	ppm	99
77)	Phenanthrene	9.25	178	508086	6.24	ppm	99
78)	Anthracene	9.33	178	512709	6.16	ppm	99
79)	Carbazole	9.60	167	468870	5.93	ppm	100
80)	Di-n-butylphthalate	10.32	149	589128	5.86	ppm	99
81)	Fluoranthene	11.42	202	495066	5.83	ppm	99
82)	Octadecane	9.10	57	206521	5.92	ppm	99
84)	Pyrene	11.87	202	528440	5.27	ppm	98
86)	Butylbenzylphthalate	13.48	149	250816	4.84	ppm	97
87)	Butyl stearate	13.77	56	136234	4.72	ppm	99
88)	Benzo[a]anthracene	14.52	228	433302	5.07	ppm	97
89)	3,3'-Dichlorobenzidine	14.55	252	156108	5.05	ppm	98
90)	Chrysene	14.59	228	448785	5.29	ppm	99
91)	bis(2-Ethylhexyl)phthalate	14.89	149	341191	4.71	ppm	96
93)	Di-n-octylphthalate	16.35	149	604939	5.24	ppm	98
94)	Benzo[b]fluoranthene	16.82	252	435201	5.61	ppm	99
95)	Benzo[k]fluoranthene	16.88	252	414541	5.37	ppm	99
96)	Benzo[a]pyrene	17.46	252	392090	5.45	ppm	99
97)	Indeno[1,2,3-cd]pyrene	19.52	276	353891	5.29	ppm	91
98)	Dibenz(a,h)acridine	19.16	279	308931	5.34	ppm	100
99)	Dibenz[a,h]anthracene	19.58	278	347003	5.25	ppm	95
100)	7,12-Dimethylbenz(a)anthra	16.84	256	162841	4.97	ppm	96
101)	Benzo[g,h,i]perylene	19.94	276	392199	5.54	ppm	96

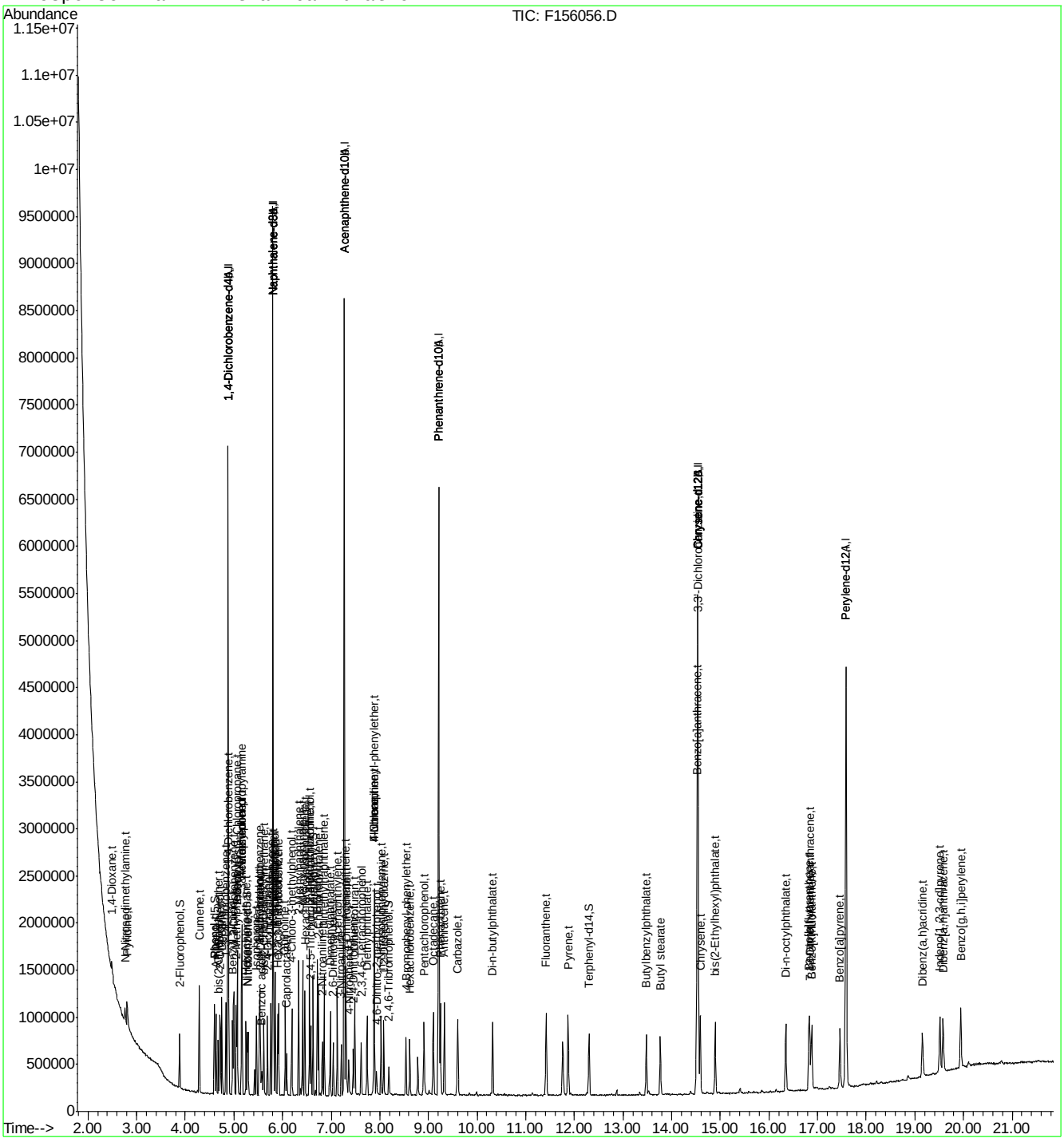
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC21347

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6563\F156056.D Vial: 7
Acq On : 4 Apr 2016 9:35 pm Operator: sarad
Sample : ic6563-5 Inst : MSF
Misc : op92661,ef6563,100 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 5 8:57 2016 Quant Results File: MF6563.RES

Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Apr 05 08:56:42 2016
Response via : Initial Calibration



SGS ACCUTEST JC21347

F156057.D

Manual Integrations APPROVED (compounds with "m" flag)
Kristi Schollenberger 04/06/16 15:11

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6563\F156057.D Vial: 8
Acq On : 4 Apr 2016 10:04 pm Operator: sarad
Sample : ic6563-2 Inst : MSF
Misc : op92661,ef6563,100 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 05 09:16:53 2016 Quant Results File: MF6563.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Apr 05 09:16:50 2016
Response via : Initial Calibration
DataAcq Meth : MF6563

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.88	152	918307	40.00	ppm	0.00
24) Naphthalene-d8	5.80	136	3392002	40.00	ppm	0.00
47) Acenaphthene-d10	7.27	164	1972367	40.00	ppm	0.00
69) Phenanthrene-d10	9.21	188	3182891	40.00	ppm	0.00
83) Chrysene-d12	14.54	240	2811338	40.00	ppm	-0.01
92) Perylene-d12	17.59	264	2583255	40.00	ppm	0.00
102) 1,4-Dichlorobenzene-d4A	4.88	152	918307	40.00	ppm	0.00
112) Naphthalene-d8A	5.80	136	3392002	40.00	ppm	0.00
121) Acenaphthene-d10A	7.27	164	1972367	40.00	ppm	0.00
132) Phenanthrene-d10A	9.21	188	3182891	40.00	ppm	0.00
147) Chrysene-d12A	14.54	240	2811338	40.00	ppm	-0.01
155) Perylene-d12A	17.59	264	2583255	40.00	ppm	0.00
159) 1,4-Dichlorobenzene-d4b	4.88	152	918307	40.00	ppm	0.00
161) Naphthalene-d8b	5.80	136	3392002	40.00	ppm	0.00
163) Acenaphthene-d10b	7.27	164	1972367	40.00	ppm	0.00
165) Phenanthrene-d10b	9.21	188	3182891	40.00	ppm	0.00
167) Chrysene-d12b	14.54	240	2811338	40.00	ppm	-0.01
169) 1,4-Dichlorobenzene-d4c	4.88	152	918307	40.00	ppm	0.00
171) Naphthalene-d8c	5.80	136	3392002	40.00	ppm	0.00
176) Chrysene-d12c	14.54	240	2811338	40.00	ppm	-0.01
178) Naphthalene-d8a	5.80	136	3392002	40.00	ppm	0.15
180) Chrysene-d12B	14.54	240	2811338	40.00	ppm	0.23

System Monitoring Compounds						
5) 2-Fluorophenol	3.88	112	67381	2.12	ppm	0.00
Spiked Amount 50.000			Recovery = 4.24%			
8) Phenol-d5	4.59	99	82796	2.15	ppm	0.00
Spiked Amount 50.000			Recovery = 4.30%			
25) Nitrobenzene-d5	5.28	82	64774	2.05	ppm	0.00
Spiked Amount 50.000			Recovery = 4.10%			
51) 2-Fluorobiphenyl	6.63	172	142064	2.34	ppm	0.00
Spiked Amount 50.000			Recovery = 4.68%			
73) 2,4,6-Tribromophenol	8.19	330	13619	2.10	ppm	-0.01
Spiked Amount 50.000			Recovery = 4.20%			
85) Terphenyl-d14	12.30	244	115350	2.02	ppm	0.00
Spiked Amount 50.000			Recovery = 4.04%			

Target Compounds							Qvalue
2) 1,4-Dioxane	2.49	88	19952m	1.39	ppm		
3) Pyridine	2.82	79	62693	1.83	ppm		99
4) N-Nitrosodimethylamine	2.77	42	24930	2.11	ppm	#	71
6) Indene	5.07	116	122410	2.35	ppm		98
7) Cumene	4.29	105	157607	2.22	ppm		97
9) Phenol	4.60	94	87242	2.13	ppm		93
10) Aniline	4.63	93	104543	2.40	ppm		94
11) bis(2-Chloroethyl)ether	4.68	93	63459	2.15	ppm		100
12) 2-Chlorophenol	4.72	128	73140	2.20	ppm		98
13) Decane	4.76	43	65729	2.35	ppm		91
14) 1,3-Dichlorobenzene	4.84	146	81625	2.22	ppm		97
15) 1,4-Dichlorobenzene	4.89	146	80670	2.18	ppm		97

(#) = qualifier out of range (m) = manual integration
F156057.D MF6563.M Tue Apr 05 09:24:02 2016 RT1

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6563\F156057.D Vial: 8
Acq On : 4 Apr 2016 10:04 pm Operator: sarad
Sample : ic6563-2 Inst : MSF
Misc : op92661,ef6563,100 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 05 09:16:53 2016 Quant Results File: MF6563.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Apr 05 09:16:50 2016
Response via : Initial Calibration
DataAcq Meth : MF6563

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
16)	Benzyl alcohol	4.97	108	45980	2.16	ppm		95
17)	1,2-Dichlorobenzene	5.00	146	77388	2.26	ppm		98
18)	Acetophenone	5.17	105	92358	2.33	ppm		92
19)	2-Methylphenol	5.05	108	61550	2.15	ppm		98
20)	2,2'-oxybis(1-Chloropropan	5.08	121	23816	2.30	ppm	#	84
21)	3&4-Methylphenol	5.16	108	63995	2.20	ppm		92
22)	n-Nitroso-di-n-propylamine	5.17	70	50208	2.35	ppm		96
23)	Hexachloroethane	5.25	201	24892	2.19	ppm		93
26)	Nitrobenzene	5.29	77	67438	2.04	ppm		96
27)	Quinoline	6.05	129	138065	2.14	ppm		98
28)	Isophorone	5.46	82	117937	2.12	ppm		96
29)	2-Nitrophenol	5.52	139	34742	2.03	ppm		85
30)	2,4-Dimethylphenol	5.55	107	53800	1.97	ppm		97
31)	Benzoic acid	5.57	105	40367	1.69	ppm		94
32)	bis(2-Chloroethoxy)methane	5.62	93	77708	2.24	ppm		98
33)	2,4-Dichlorophenol	5.69	162	57101	2.14	ppm		97
34)	2,6-Dichlorophenol	5.86	162	57136	2.28	ppm		99
35)	1,3,5-Trichlorobenzene	5.53	180	63320	2.31	ppm		97
36)	1,2,4-Trichlorobenzene	5.76	180	60630	2.23	ppm		97
37)	1,2,3-Trichlorobenzene	5.92	180	61163	2.30	ppm		93
38)	Naphthalene	5.82	128	211027	2.39	ppm		97
39)	4-Chloroaniline	5.85	127	85275	2.32	ppm		99
40)	2,3-Dichloroaniline	6.56	161	72171	2.41	ppm		96
41)	Caprolactam	6.08	55	25731	2.01	ppm		98
42)	Hexachlorobutadiene	5.90	225	30238	2.37	ppm		96
43)	4-Chloro-3-methylphenol	6.19	107	53743	2.03	ppm		95
44)	2-Methylnaphthalene	6.33	141	116051	2.29	ppm		97
45)	1-Methylnaphthalene	6.41	141	118123	2.26	ppm		94
46)	Dimethylnaphthalene	6.86	156	119350	2.25	ppm		99
48)	Hexachlorocyclopentadiene	6.46	237	55624	4.15	ppm		96
49)	2,4,6-Trichlorophenol	6.56	196	38754	2.43	ppm		97
50)	2,4,5-Trichlorophenol	6.58	196	39267	2.16	ppm		92
52)	2-Chloronaphthalene	6.74	162	124816	2.26	ppm		97
53)	Biphenyl	6.72	154	163283	2.32	ppm		98
54)	2-Nitroaniline	6.82	65	32355	1.97	ppm		90
55)	Dimethylphthalate	6.98	163	137083	2.20	ppm		99
56)	Acenaphthylene	7.13	152	204353	2.29	ppm		98
57)	2,6-Dinitrotoluene	7.04	165	25658	1.83	ppm		98
58)	3-Nitroaniline	7.21	138	34477	1.96	ppm		97
59)	Acenaphthene	7.30	153	128608	2.29	ppm		97
60)	2,4-Dinitrophenol	7.32	184	15677	2.14	ppm	#	46
61)	4-Nitrophenol	7.36	109	15018	1.81	ppm		96
62)	Dibenzofuran	7.49	168	174267	2.27	ppm		98
63)	2,4-Dinitrotoluene	7.45	165	36684	1.91	ppm		98
64)	2,3,4,6-Tetrachlorophenol	7.62	232	28627	2.06	ppm		94
65)	Diethylphthalate	7.74	149	134572	2.19	ppm		98
66)	Fluorene	7.89	166	138455	2.37	ppm		99
67)	4-Chlorophenyl-phenylether	7.89	204	64851	2.57	ppm		91
68)	4-Nitroaniline	7.89	138	34880	1.98	ppm		91

(#) = qualifier out of range (m) = manual integration

SGS ACCUTEST JC21347

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6563\F156057.D Vial: 8
Acq On : 4 Apr 2016 10:04 pm Operator: sarad
Sample : ic6563-2 Inst : MSF
Misc : op92661,ef6563,100 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 05 09:16:53 2016 Quant Results File: MF6563.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Apr 05 09:16:50 2016
Response via : Initial Calibration
DataAcq Meth : MF6563

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
70)	4,6-Dinitro-2-methylphenol	7.93	198	11717	1.17	ppm	94
71)	n-Nitrosodiphenylamine	8.02	169	95889	2.15	ppm	96
72)	1,2-Diphenylhydrazine	8.08	77	131296	2.11	ppm	96
74)	4-Bromophenyl-phenylether	8.54	248	33407	2.23	ppm	97
75)	Hexachlorobenzene	8.62	284	31503	2.20	ppm	97
76)	Pentachlorophenol	8.91	266	39004	3.97	ppm	96
77)	Phenanthrene	9.25	178	200983	2.27	ppm	99
78)	Anthracene	9.33	178	198929	2.23	ppm	97
79)	Carbazole	9.60	167	184916	2.20	ppm	97
80)	Di-n-butylphthalate	10.32	149	219322	2.06	ppm	98
81)	Fluoranthene	11.42	202	190900	2.14	ppm	98
82)	Octadecane	9.10	57	77261	2.09	ppm	95
84)	Pyrene	11.87	202	201138	2.02	ppm	98
86)	Butylbenzylphthalate	13.48	149	92745	1.86	ppm	96
87)	Butyl stearate	13.76	56	47830	1.74	ppm	94
88)	Benzo[a]anthracene	14.52	228	177735	2.12	ppm	96
89)	3,3'-Dichlorobenzidine	14.55	252	58243	1.92	ppm	99
90)	Chrysene	14.59	228	172615	2.05	ppm	98
91)	bis(2-Ethylhexyl)phthalate	14.89	149	128666	1.86	ppm	95
93)	Di-n-octylphthalate	16.34	149	220603	1.92	ppm	99
94)	Benzo[b]fluoranthene	16.82	252	162360	2.06	ppm	95
95)	Benzo[k]fluoranthene	16.88	252	162400	2.11	ppm	98
96)	Benzo[a]pyrene	17.46	252	149619	2.07	ppm	99
97)	Indeno[1,2,3-cd]pyrene	19.52	276	137334	2.04	ppm	96
98)	Dibenz(a,h)acridine	19.16	279	114274	1.96	ppm	98
99)	Dibenz[a,h]anthracene	19.58	278	132465	2.01	ppm	100
100)	7,12-Dimethylbenz(a)anthra	16.84	256	59468	1.84	ppm	91
101)	Benzo[g,h,i]perylene	19.94	276	148274	2.05	ppm	94

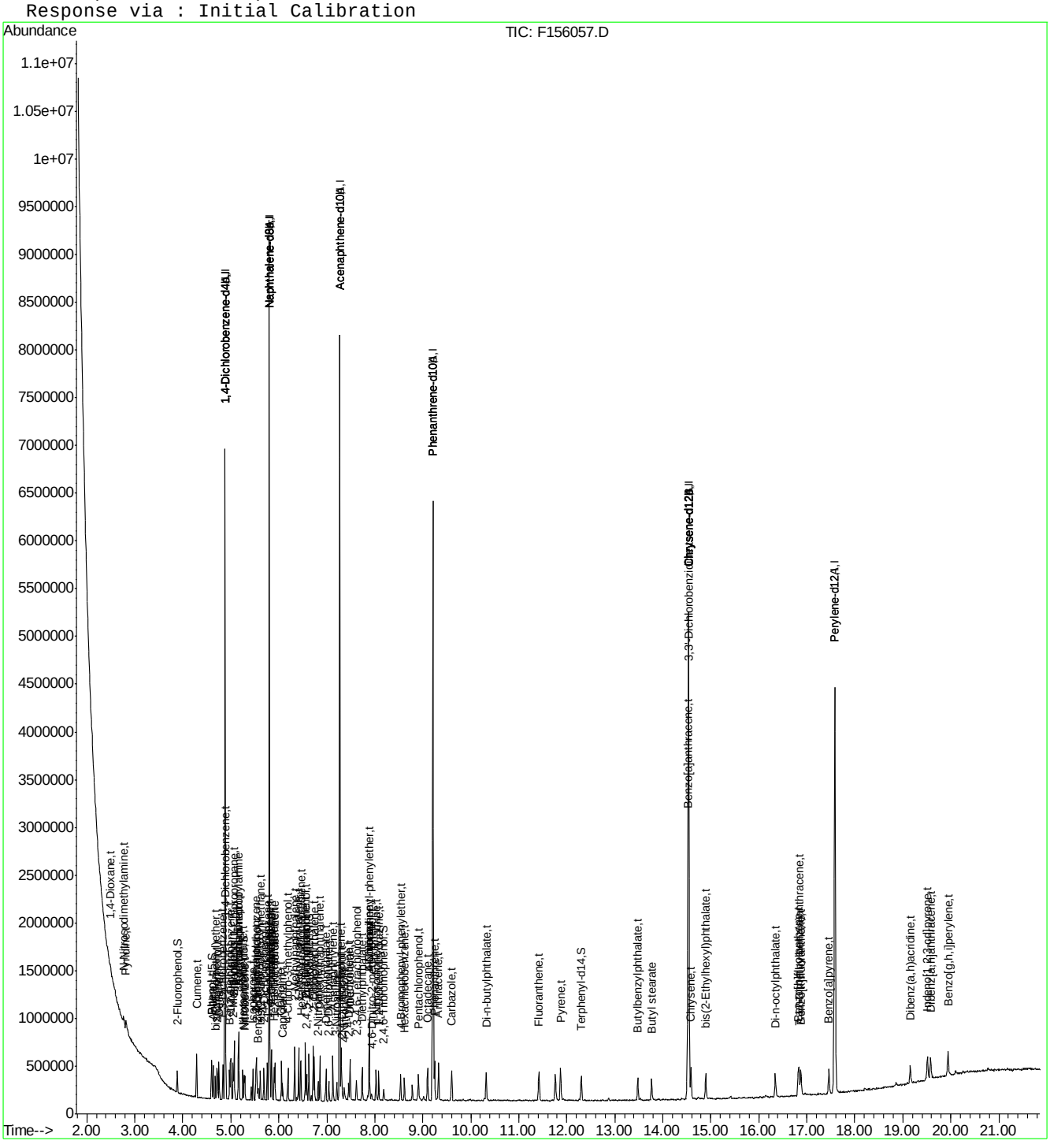
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC21347

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6563\F156057.D Vial: 8
Acq On : 4 Apr 2016 10:04 pm Operator: sarad
Sample : ic6563-2 Inst : MSF
Misc : op92661,ef6563,100 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 5 9:23 2016 Quant Results File: MF6563.RES

Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Apr 05 09:16:50 2016
Response via : Initial Calibration



SGS ACCUTEST JC21347

Manual Integration Approval Summary

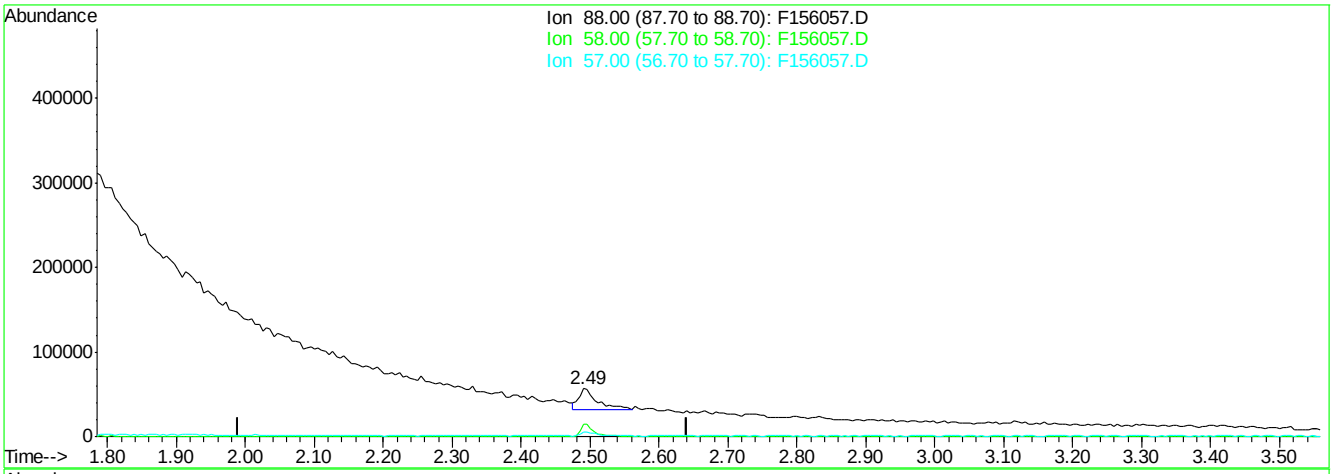
Sample Number:	EF6563-IC6563	**Method:**	SW846 8270D
Lab FileID:	F156057.D	**Analyst approved:**	04/06/16 08:21 Linsey Kirschmann
Injection Time:	04/04/16 22:04	**Supervisor approved:**	04/06/16 15:11 Kristi Schollenberger

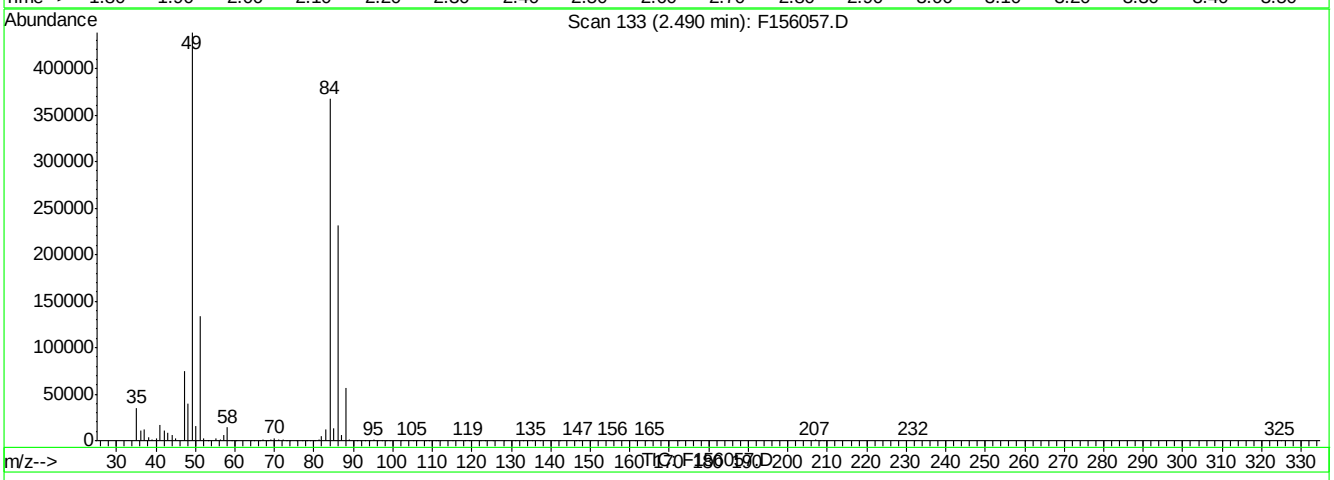
Parameter	CAS	Sig#	R.T. (min.)	Reason
1,4-Dioxane	123-91-1		2.49	Poor instrument integration

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF6563\F156057.D Vial: 8
Acq On : 4 Apr 2016 10:04 pm Operator: sarad
Sample : ic6563-2 Inst : MSF
Misc : op92661,ef6563,100 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 5 9:14 2016 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Apr 05 09:06:16 2016
Response via : Multiple Level Calibration





(2) 1,4-Dioxane (t)

2.49min 3.04ppm

response 43525

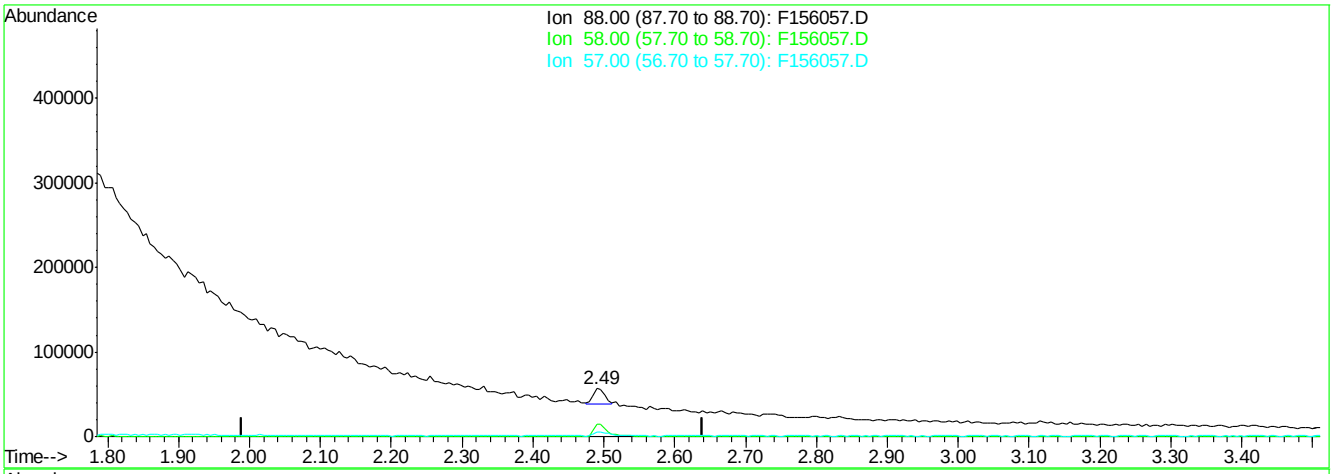
Ion	Exp%	Act%
88.00	100	100
58.00	66.20	68.89
57.00	21.10	24.74
0.00	0.00	0.00

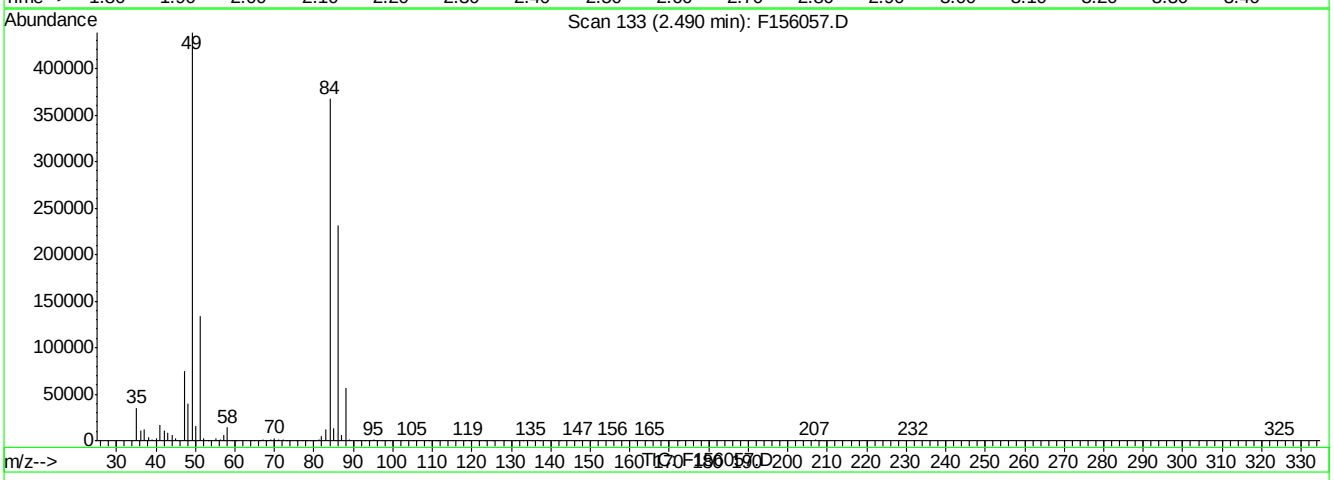
F156057.D MF6563.M Tue Apr 05 09:15:23 2016 RT1

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF6563\F156057.D Vial: 8
Acq On : 4 Apr 2016 10:04 pm Operator: sarad
Sample : ic6563-2 Inst : MSF
Misc : op92661,ef6563,100 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 5 9:15 2016 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Apr 05 09:06:16 2016
Response via : Multiple Level Calibration





(2) 1,4-Dioxane (t)

2.49min 1.39ppm m

response 19952

Ion	Exp%	Act%
88.00	100	100
58.00	66.20	25.38#
57.00	21.10	10.38
0.00	0.00	0.00

F156057.D MF6563.M Tue Apr 05 09:15:29 2016 RT1

7.6.60.3

7

Manual Integrations APPROVED (compounds with "m" flag)
Kristi Schollenberger 04/06/16 15:11

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6563\F156058.D Vial: 9
Acq On : 4 Apr 2016 10:33 pm Operator: sarad
Sample : ic6563-1 Inst : MSF
Misc : op92661,ef6563,100 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 05 08:14:17 2016 Quant Results File: MF6563.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Apr 05 08:13:49 2016
Response via : Initial Calibration
DataAcq Meth : MF6563

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.88	152	925326	40.00	ppm	0.00
24) Naphthalene-d8	5.80	136	3443301	40.00	ppm	0.00
47) Acenaphthene-d10	7.27	164	2022694	40.00	ppm	0.00
69) Phenanthrene-d10	9.21	188	3240274	40.00	ppm	0.00
83) Chrysene-d12	14.53	240	2829220	40.00	ppm	-0.02
92) Perylene-d12	17.59	264	2605308	40.00	ppm	0.00
102) 1,4-Dichlorobenzene-d4A	4.88	152	925326	40.00	ppm	0.00
112) Naphthalene-d8A	5.80	136	3443301	40.00	ppm	0.00
121) Acenaphthene-d10A	7.27	164	2022694	40.00	ppm	0.00
132) Phenanthrene-d10A	9.21	188	3240274	40.00	ppm	0.00
147) Chrysene-d12A	14.53	240	2829220	40.00	ppm	-0.02
155) Perylene-d12A	17.59	264	2605308	40.00	ppm	-0.11
159) 1,4-Dichlorobenzene-d4b	4.88	152	925326	40.00	ppm	0.00
161) Naphthalene-d8b	5.80	136	3443301	40.00	ppm	0.00
163) Acenaphthene-d10b	7.27	164	2022694	40.00	ppm	0.00
165) Phenanthrene-d10b	9.21	188	3240274	40.00	ppm	0.00
167) Chrysene-d12b	14.53	240	2829220	40.00	ppm	-0.02
169) 1,4-Dichlorobenzene-d4c	4.88	152	925326	40.00	ppm	0.00
171) Naphthalene-d8c	5.80	136	3443301	40.00	ppm	0.00
176) Chrysene-d12c	14.53	240	2829220	40.00	ppm	-0.02
178) Naphthalene-d8a	5.80	136	3443301	40.00	ppm	0.15
180) Chrysene-d12B	14.53	240	2829220	40.00	ppm	0.22
System Monitoring Compounds						
5) 2-Fluorophenol	3.88	112	33942	1.09	ppm	0.00
Spiked Amount 50.000			Recovery	=	2.18%	
8) Phenol-d5	4.60	99	42142	1.13	ppm	0.00
Spiked Amount 50.000			Recovery	=	2.26%	
25) Nitrobenzene-d5	5.28	82	32224	1.04	ppm	0.00
Spiked Amount 50.000			Recovery	=	2.08%	
51) 2-Fluorobiphenyl	6.63	172	69971	1.24	ppm	0.00
Spiked Amount 50.000			Recovery	=	2.48%	
73) 2,4,6-Tribromophenol	8.19	330	6260	0.97	ppm	-0.01
Spiked Amount 50.000			Recovery	=	1.94%	
85) Terphenyl-d14	12.30	244	57004	1.01	ppm	0.00
Spiked Amount 50.000			Recovery	=	2.02%	
Target Compounds						Qvalue
2) 1,4-Dioxane	2.50	88	18018m	1.34	ppm	
3) Pyridine	2.82	79	31114	0.92	ppm	89
4) N-Nitrosodimethylamine	2.77	42	13265	1.02	ppm	99
6) Indene	5.07	116	61038	1.29	ppm	98
7) Cumene	4.29	105	79272	1.19	ppm	99
9) Phenol	4.60	94	45104	1.13	ppm	96
10) Aniline	4.63	93	52526	1.33	ppm	95
11) bis(2-Chloroethyl)ether	4.68	93	32260	1.14	ppm	98
12) 2-Chlorophenol	4.72	128	37291	1.18	ppm	95
13) Decane	4.76	43	34278	1.32	ppm	98
14) 1,3-Dichlorobenzene	4.84	146	41335	1.19	ppm	98
15) 1,4-Dichlorobenzene	4.89	146	40166	1.16	ppm	95

(#) = qualifier out of range (m) = manual integration
F156058.D MF6563.M Tue Apr 05 09:25:39 2016 RT1

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6563\F156058.D Vial: 9
Acq On : 4 Apr 2016 10:33 pm Operator: sarad
Sample : ic6563-1 Inst : MSF
Misc : op92661,ef6563,100 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 05 08:14:17 2016 Quant Results File: MF6563.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Apr 05 08:13:49 2016
Response via : Initial Calibration
DataAcq Meth : MF6563

Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
16) Benzyl alcohol	4.97	108	23422	1.14	ppm		90
17) 1,2-Dichlorobenzene	5.00	146	39477	1.24	ppm		94
18) Acetophenone	5.17	105	45494	1.28	ppm		93
19) 2-Methylphenol	5.05	108	31635	1.16	ppm		95
20) 2,2'-oxybis(1-Chloropropan	5.08	121	12901	1.33	ppm	#	72
21) 3&4-Methylphenol	5.16	108	33244	1.24	ppm		96
22) n-Nitroso-di-n-propylamine	5.16	70	24292	1.22	ppm		96
23) Hexachloroethane	5.25	201	12952	1.20	ppm		91
26) Nitrobenzene	5.29	77	33402	1.04	ppm		98
27) Quinoline	6.05	129	69003	1.11	ppm		99
28) Isophorone	5.46	82	60703	1.14	ppm		98
29) 2-Nitrophenol	5.52	139	18094	1.11	ppm		86
30) 2,4-Dimethylphenol	5.55	107	26515	0.96	ppm		99
31) Benzoic acid	5.56	105	18143	0.75	ppm		84
32) bis(2-Chloroethoxy)methane	5.62	93	38876	1.18	ppm		97
33) 2,4-Dichlorophenol	5.69	162	28566	1.12	ppm		97
34) 2,6-Dichlorophenol	5.86	162	29724	1.29	ppm		97
35) 1,3,5-Trichlorobenzene	5.53	180	32487	1.31	ppm		98
36) 1,2,4-Trichlorobenzene	5.76	180	30670	1.20	ppm		97
37) 1,2,3-Trichlorobenzene	5.92	180	31037	1.24	ppm		96
38) Naphthalene	5.82	128	106291	1.35	ppm		90
39) 4-Chloroaniline	5.85	127	43078	1.30	ppm		98
40) 2,3-Dichloroaniline	6.56	161	37045	1.40	ppm		95
41) Caprolactam	6.07	55	13615	1.07	ppm		93
42) Hexachlorobutadiene	5.90	225	14417	1.22	ppm		96
43) 4-Chloro-3-methylphenol	6.19	107	27002	1.06	ppm		95
44) 2-Methylnaphthalene	6.33	141	56195	1.20	ppm		96
45) 1-Methylnaphthalene	6.41	141	58487	1.21	ppm		97
46) Dimethylnaphthalene	6.85	156	58934	1.20	ppm		93
48) Hexachlorocyclopentadiene	6.46	237	26262	2.09	ppm		99
49) 2,4,6-Trichlorophenol	6.56	196	19329	1.34	ppm		98
50) 2,4,5-Trichlorophenol	6.58	196	19243	1.10	ppm		95
52) 2-Chloronaphthalene	6.74	162	63561	1.23	ppm		98
53) Biphenyl	6.72	154	82740	1.27	ppm		97
54) 2-Nitroaniline	6.82	65	14621	0.89	ppm	#	80
55) Dimethylphthalate	6.98	163	69268	1.17	ppm		97
56) Acenaphthylene	7.13	152	102899	1.24	ppm		99
57) 2,6-Dinitrotoluene	7.04	165	13845	0.99	ppm		91
58) 3-Nitroaniline	7.21	138	15918	0.92	ppm		90
59) Acenaphthene	7.30	153	65211	1.26	ppm		96
60) 2,4-Dinitrophenol	7.32	184	5693	0.69	ppm	#	25
61) 4-Nitrophenol	7.36	109	7647	0.88	ppm		94
62) Dibenzofuran	7.49	168	88112	1.23	ppm		97
63) 2,4-Dinitrotoluene	7.45	165	16291	0.85	ppm		87
64) 2,3,4,6-Tetrachlorophenol	7.62	232	13911	1.03	ppm		91
65) Diethylphthalate	7.74	149	69487	1.17	ppm		97
66) Fluorene	7.89	166	70042	1.35	ppm		96
67) 4-Chlorophenyl-phenylether	7.89	204	31787	1.42	ppm		84
68) 4-Nitroaniline	7.89	138	16764	0.97	ppm		90

(#) = qualifier out of range (m) = manual integration

SGS ACCUTEST JC21347

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6563\F156058.D Vial: 9
Acq On : 4 Apr 2016 10:33 pm Operator: sarad
Sample : ic6563-1 Inst : MSF
Misc : op92661,ef6563,100 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 05 08:14:17 2016 Quant Results File: MF6563.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Apr 05 08:13:49 2016
Response via : Initial Calibration
DataAcq Meth : MF6563

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
70)	4,6-Dinitro-2-methylphenol	7.93	198	4799	0.43 ppm	92
71)	n-Nitrosodiphenylamine	8.02	169	49361	1.17 ppm	91
72)	1,2-Diphenylhydrazine	8.08	77	64939	1.08 ppm	97
74)	4-Bromophenyl-phenylether	8.54	248	16182	1.15 ppm	97
75)	Hexachlorobenzene	8.62	284	15706	1.17 ppm	96
76)	Pentachlorophenol	8.91	266	17082	1.83 ppm	94
77)	Phenanthrene	9.25	178	102369	1.25 ppm	98
78)	Anthracene	9.33	178	99583	1.19 ppm	98
79)	Carbazole	9.60	167	91266	1.15 ppm	97
80)	Di-n-butylphthalate	10.32	149	111956	1.11 ppm	97
81)	Fluoranthene	11.42	202	96469	1.13 ppm	98
82)	Octadecane	9.10	57	38528	1.10 ppm	95
84)	Pyrene	11.87	202	100822	1.03 ppm	94
86)	Butylbenzylphthalate	13.48	149	47051	0.93 ppm	93
87)	Butyl stearate	13.77	56	23594	0.84 ppm	93
88)	Benzo[a]anthracene	14.52	228	90088	1.08 ppm	96
89)	3,3'-Dichlorobenzidine	14.54	252	26697	0.88 ppm	83
90)	Chrysene	14.59	228	86595	1.04 ppm	93
91)	bis(2-Ethylhexyl)phthalate	14.89	149	63397	0.89 ppm	99
93)	Di-n-octylphthalate	16.34	149	105581	0.93 ppm	99
94)	Benzo[b]fluoranthene	16.82	252	84697	1.11 ppm	95
95)	Benzo[k]fluoranthene	16.88	252	83033	1.10 ppm	97
96)	Benzo[a]pyrene	17.46	252	76555	1.09 ppm	97
97)	Indeno[1,2,3-cd]pyrene	19.52	276	68054	1.04 ppm	96
98)	Dibenz(a,h)acridine	19.16	279	57503	1.02 ppm	99
99)	Dibenz[a,h]anthracene	19.57	278	61000	0.94 ppm	99
100)	7,12-Dimethylbenz(a)anthra	16.84	256	26148	0.81 ppm	98
101)	Benzo[g,h,i]perylene	19.94	276	76109	1.10 ppm	97

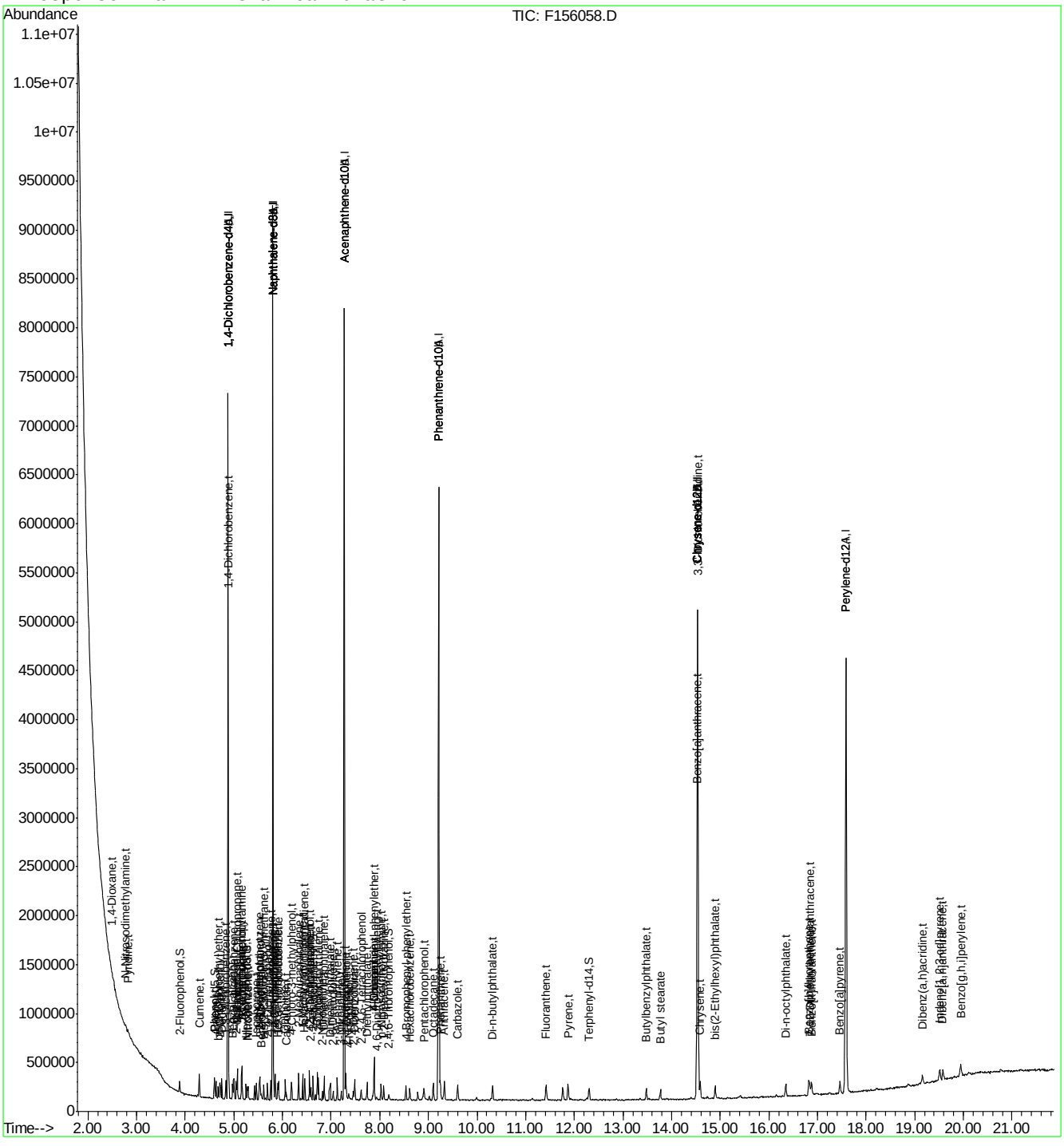
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC21347

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6563\F156058.D Vial: 9
Acq On : 4 Apr 2016 10:33 pm Operator: sarad
Sample : ic6563-1 Inst : MSF
Misc : op92661,ef6563,100 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 5 9:25 2016 Quant Results File: MF6563.RES

Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Apr 05 09:24:11 2016
Response via : Initial Calibration



SGS ACCUTEST JC21347

Manual Integration Approval Summary

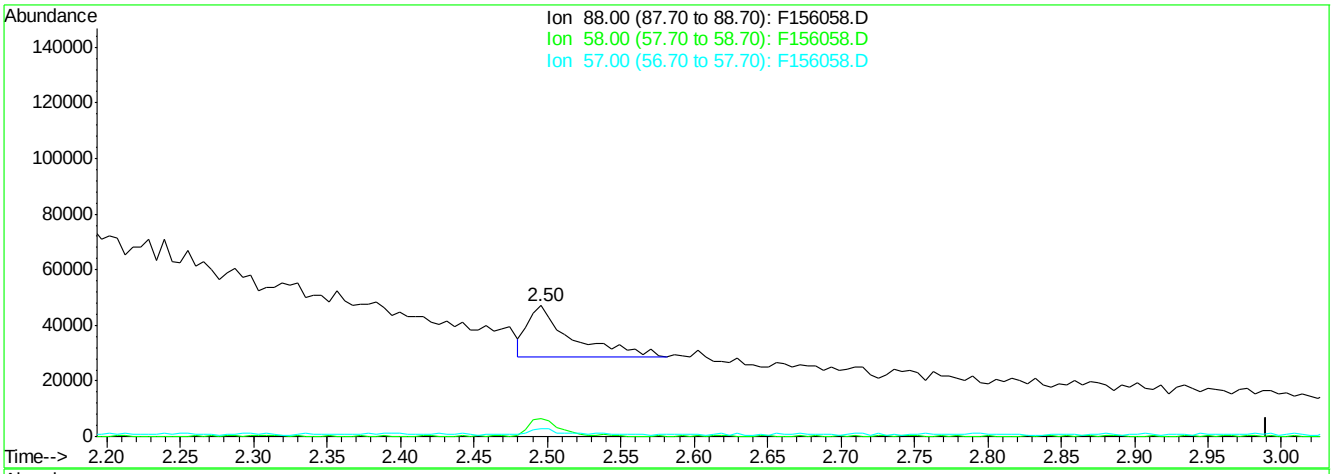
Sample Number:	EF6563-IC6563	**Method:**	SW846 8270D
Lab FileID:	F156058.D	**Analyst approved:**	04/06/16 08:21 Linsey Kirschmann
Injection Time:	04/04/16 22:33	**Supervisor approved:**	04/06/16 15:11 Kristi Schollenberger

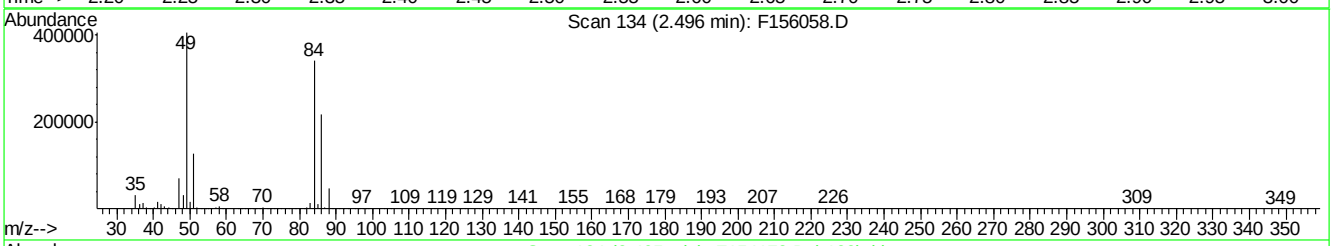
Parameter	CAS	Sig#	R.T. (min.)	Reason
1,4-Dioxane	123-91-1		2.50	Poor instrument integration

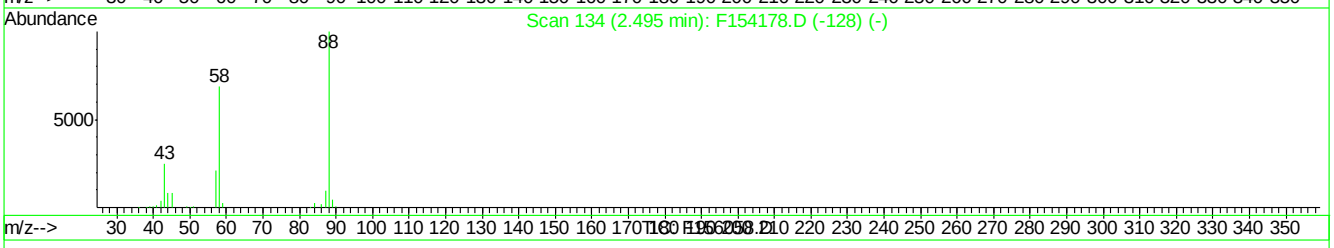
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF6563\F156058.D Vial: 9
Acq On : 4 Apr 2016 10:33 pm Operator: sarad
Sample : ic6563-1 Inst : MSF
Misc : op92661,ef6563,100 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 5 8:14 2016 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Apr 05 09:24:11 2016
Response via : Multiple Level Calibration







(2) 1,4-Dioxane (t)

2.50min 2.82ppm

response 37950

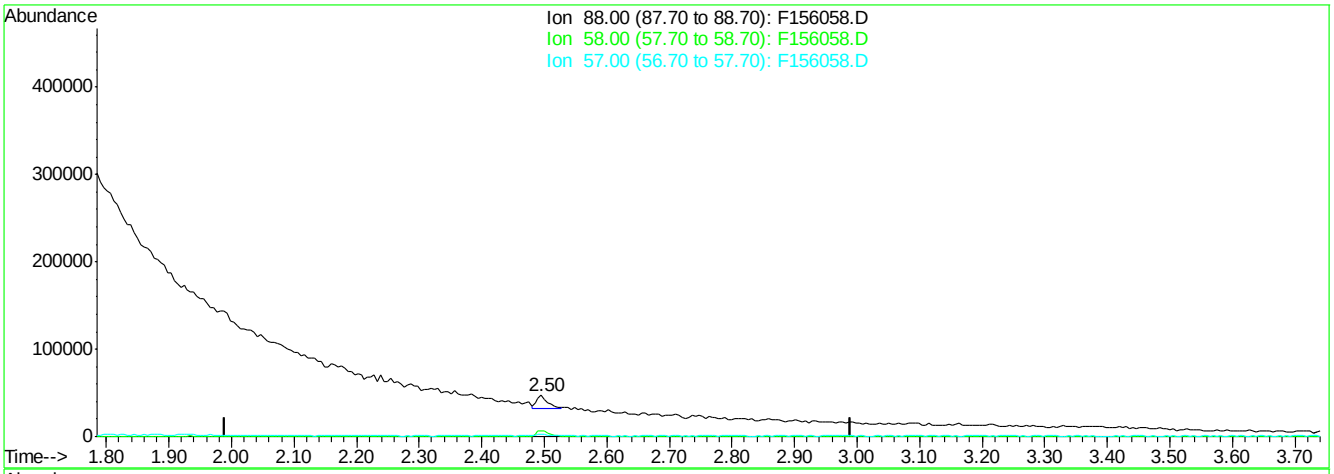
Ion	Exp%	Act%
88.00	100	100
58.00	61.80	40.90
57.00	19.90	13.02
0.00	0.00	0.00

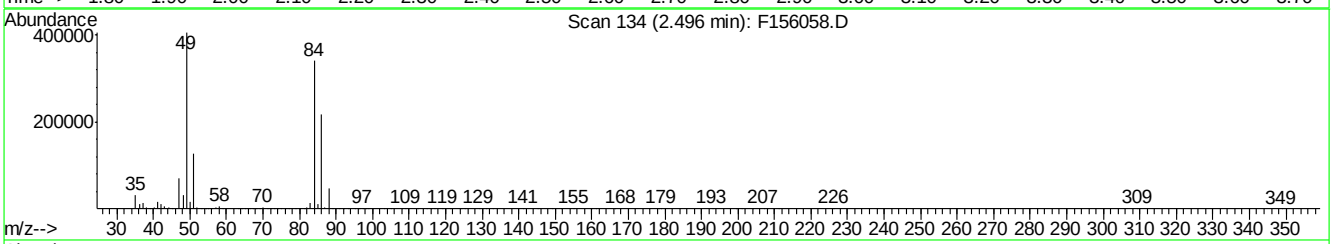
F156058.D MF6563.M Tue Apr 05 09:24:19 2016 RT1

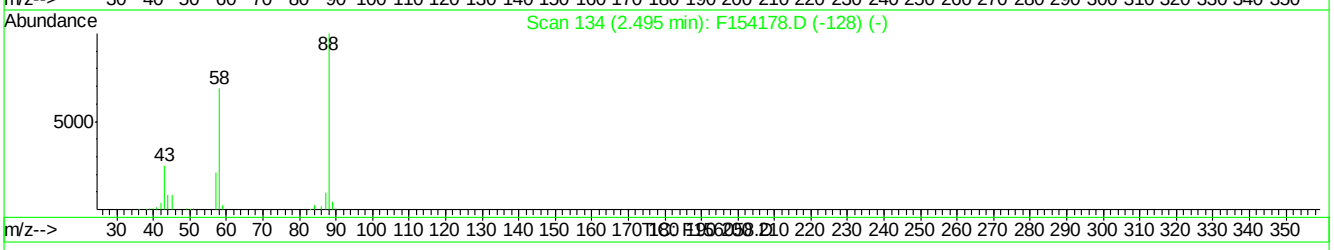
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF6563\F156058.D Vial: 9
Acq On : 4 Apr 2016 10:33 pm Operator: sarad
Sample : ic6563-1 Inst : MSF
Misc : op92661,ef6563,100 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 5 9:24 2016 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Apr 05 09:24:11 2016
Response via : Multiple Level Calibration







(2) 1,4-Dioxane (t)

2.50min 1.34ppm m

response 18018

Ion	Exp%	Act%
88.00	100	100
58.00	61.80	13.73#
57.00	19.90	5.91
0.00	0.00	0.00

F156058.D MF6563.M Tue Apr 05 09:24:27 2016 RT1

7.6.61.3

7

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6564\F156060.D Vial: 2
Acq On : 4 Apr 2016 11:27 pm Operator: sarad
Sample : ic6564-100 Inst : MSF
Misc : op92661,ef6564,100 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 05 09:55:29 2016 Quant Results File: MF6563.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Apr 05 09:55:18 2016
Response via : Initial Calibration
DataAcq Meth : MF6563

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.88	152	876019	40.00	ppm	0.00
24) Naphthalene-d8	5.80	136	3330661	40.00	ppm	0.00
47) Acenaphthene-d10	7.27	164	1696591	40.00	ppm	0.00
69) Phenanthrene-d10	9.21	188	2963286	40.00	ppm	0.00
83) Chrysene-d12	14.53	240	2499519	40.00	ppm	-0.02
92) Perylene-d12	17.59	264	2399017	40.00	ppm	0.00
102) 1,4-Dichlorobenzene-d4A	4.88	152	876019	40.00	ppm	0.00
112) Naphthalene-d8A	5.80	136	3330661	40.00	ppm	0.00
121) Acenaphthene-d10A	7.27	164	1696591	40.00	ppm	0.00
132) Phenanthrene-d10A	9.21	188	2963286	40.00	ppm	0.00
147) Chrysene-d12A	14.53	240	2499519	40.00	ppm	-0.02
155) Perylene-d12A	17.59	264	2399017	40.00	ppm	0.00
159) 1,4-Dichlorobenzene-d4b	4.88	152	876019	40.00	ppm	0.00
161) Naphthalene-d8b	5.80	136	3330661	40.00	ppm	0.00
163) Acenaphthene-d10b	7.27	164	1696591	40.00	ppm	0.00
165) Phenanthrene-d10b	9.21	188	2963286	40.00	ppm	0.00
167) Chrysene-d12b	14.53	240	2499519	40.00	ppm	0.00
169) 1,4-Dichlorobenzene-d4c	4.88	152	876019	40.00	ppm	0.00
171) Naphthalene-d8c	5.80	136	3330661	40.00	ppm	0.00
176) Chrysene-d12c	14.53	240	2499519	40.00	ppm	-0.02
178) Naphthalene-d8a	5.80	136	3330661	40.00	ppm	0.15
180) Chrysene-d12B	14.53	240	2499519	40.00	ppm	0.22

System Monitoring Compounds

5) 2-Fluorophenol	0.00	112	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
8) Phenol-d5	0.00	99	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
25) Nitrobenzene-d5	0.00	82	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
51) 2-Fluorobiphenyl	0.00	172	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
73) 2,4,6-Tribromophenol	0.00	330	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
85) Terphenyl-d14	0.00	244	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			

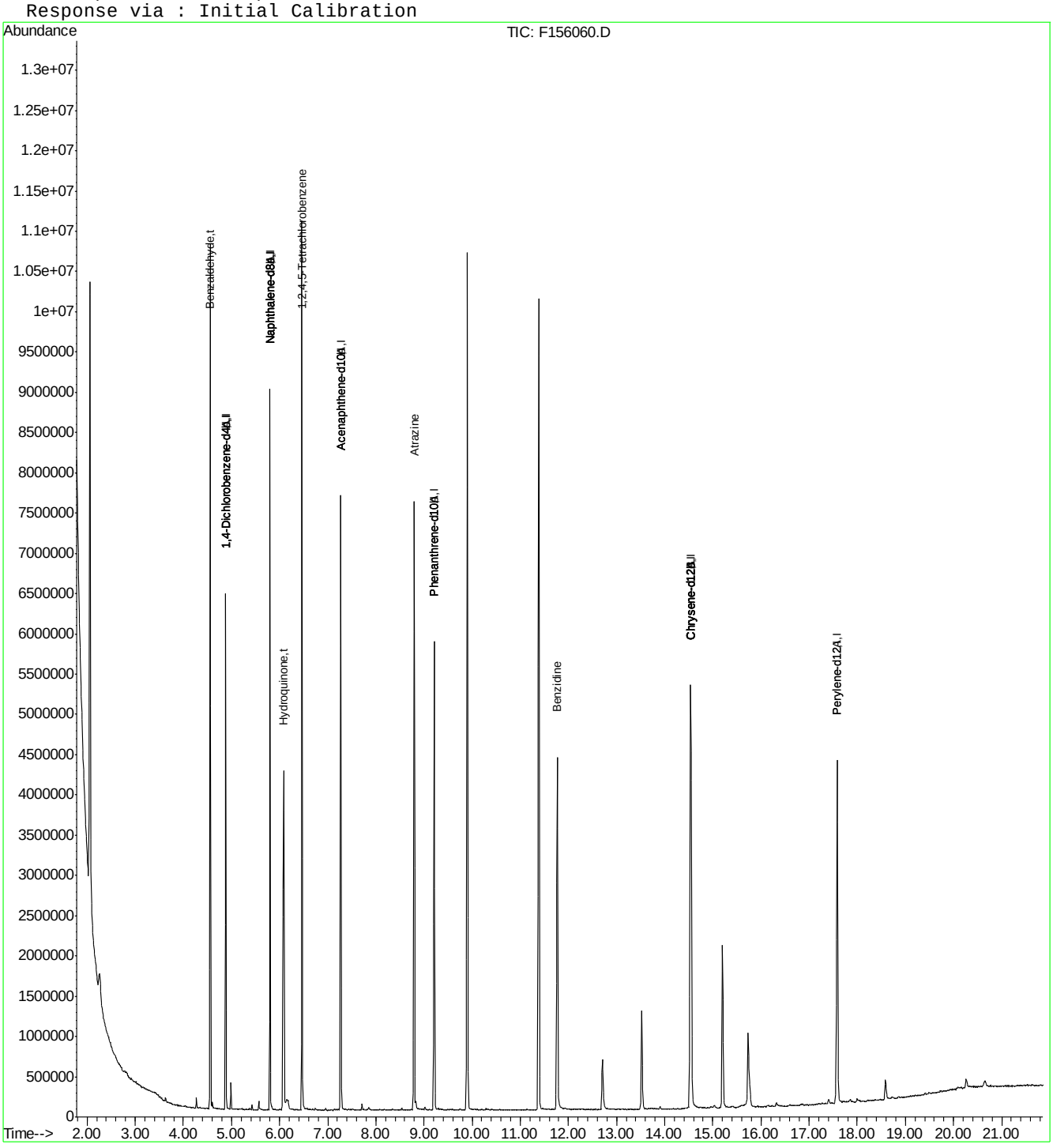
Target Compounds						Qvalue
160) Benzaldehyde	4.56	105	1788383	100.00	ppm	94
162) Hydroquinone	6.09	110	2676489	100.00	ppm	97
164) 1,2,4,5-Tetrachlorobenzene	6.47	216	1866229	100.00	ppm	99
166) Atrazine	8.80	200	1246711	100.00	ppm	98
168) Benzidine	11.77	184	2751436	100.00	ppm	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed
F156060.D MF6563.M Tue Apr 05 10:07:06 2016 RT1

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6564\F156060.D Vial: 2
Acq On : 4 Apr 2016 11:27 pm Operator: sarad
Sample : ic6564-100 Inst : MSF
Misc : op92661,ef6564,100 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 5 10:07 2016 Quant Results File: MF6563.RES

Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Apr 05 09:55:18 2016
Response via : Initial Calibration



F156060.D MF6563.M Tue Apr 05 10:07:07 2016 RT1 Page 2

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6564\F156061.D Vial: 3
Acq On : 4 Apr 2016 11:56 pm Operator: sarad
Sample : ic6564-80 Inst : MSF
Misc : op92661,ef6564,100 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 05 09:55:57 2016 Quant Results File: MF6563.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Apr 05 09:55:18 2016
Response via : Initial Calibration
DataAcq Meth : MF6563

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.88	152	778045	40.00	ppm	0.00
24) Naphthalene-d8	5.80	136	2974600	40.00	ppm	0.00
47) Acenaphthene-d10	7.27	164	1548244	40.00	ppm	0.00
69) Phenanthrene-d10	9.21	188	2777345	40.00	ppm	0.00
83) Chrysene-d12	14.53	240	2529147	40.00	ppm	-0.02
92) Perylene-d12	17.58	264	2444530	40.00	ppm	-0.01
102) 1,4-Dichlorobenzene-d4A	4.88	152	778045	40.00	ppm	0.00
112) Naphthalene-d8A	5.80	136	2974600	40.00	ppm	0.00
121) Acenaphthene-d10A	7.27	164	1548244	40.00	ppm	0.00
132) Phenanthrene-d10A	9.21	188	2777345	40.00	ppm	0.00
147) Chrysene-d12A	14.53	240	2529147	40.00	ppm	-0.02
155) Perylene-d12A	17.58	264	2444530	40.00	ppm	-0.01
159) 1,4-Dichlorobenzene-d4b	4.88	152	778045	40.00	ppm	0.00
161) Naphthalene-d8b	5.80	136	2974600	40.00	ppm	0.00
163) Acenaphthene-d10b	7.27	164	1548244	40.00	ppm	0.00
165) Phenanthrene-d10b	9.21	188	2777345	40.00	ppm	0.00
167) Chrysene-d12b	14.53	240	2529147	40.00	ppm	0.00
169) 1,4-Dichlorobenzene-d4c	4.88	152	778045	40.00	ppm	0.00
171) Naphthalene-d8c	5.80	136	2974600	40.00	ppm	0.00
176) Chrysene-d12c	14.53	240	2529147	40.00	ppm	-0.02
178) Naphthalene-d8a	5.80	136	2974600	40.00	ppm	0.15
180) Chrysene-d12B	14.53	240	2529147	40.00	ppm	0.22

System Monitoring Compounds

5) 2-Fluorophenol	0.00	112	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
8) Phenol-d5	0.00	99	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
25) Nitrobenzene-d5	0.00	82	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
51) 2-Fluorobiphenyl	0.00	172	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
73) 2,4,6-Tribromophenol	0.00	330	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
85) Terphenyl-d14	0.00	244	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			

Target Compounds						Qvalue
160) Benzaldehyde	4.56	105	1480808	93.23	ppm	94
162) Hydroquinone	6.08	110	2074959	86.81	ppm	98
164) 1,2,4,5-Tetrachlorobenzene	6.46	216	1443307	84.75	ppm	99
166) Atrazine	8.79	200	988551	84.60	ppm	98
168) Benzidine	11.77	184	2902612	104.26	ppm	98

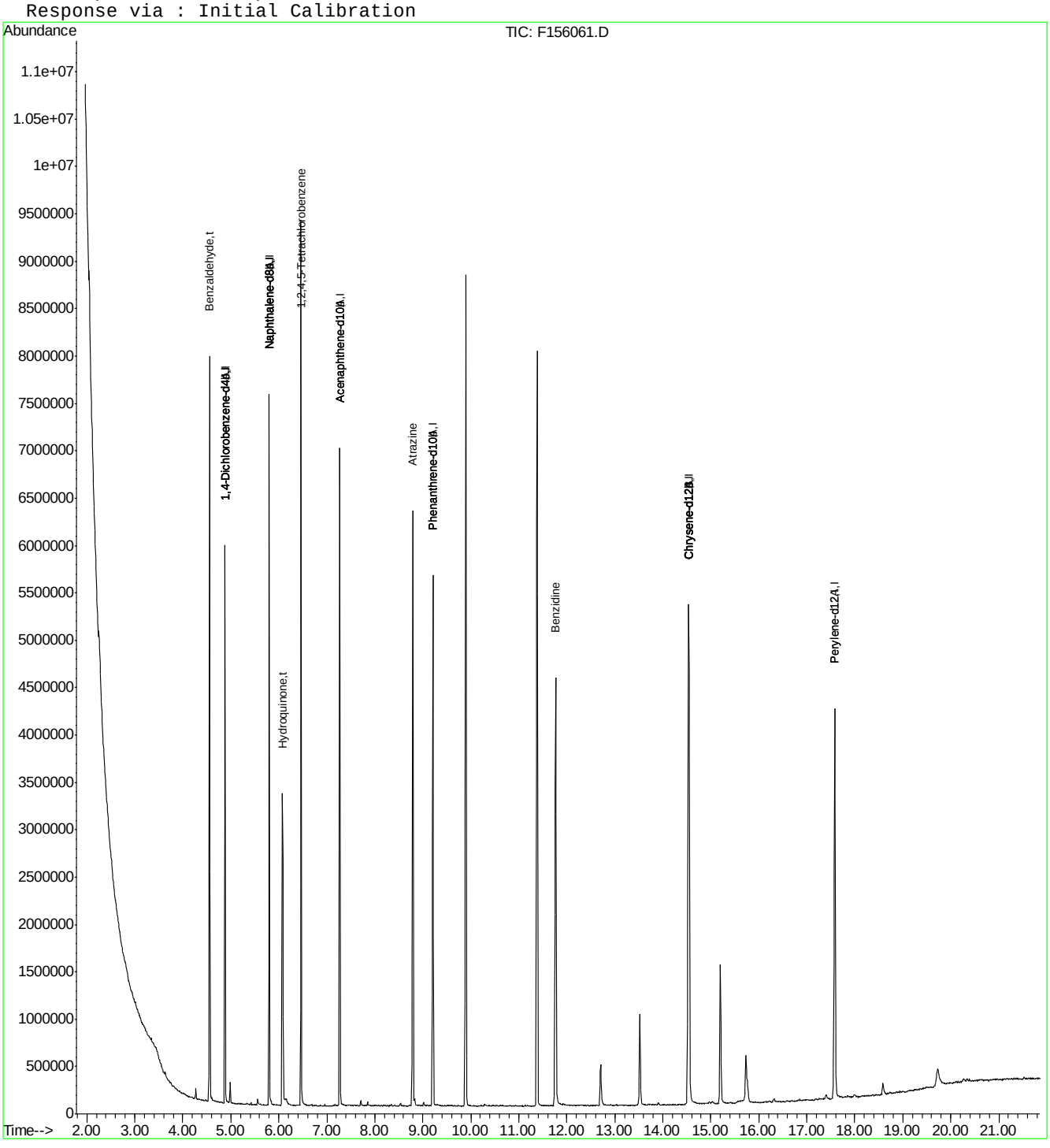
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC21347

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6564\F156061.D Vial: 3
Acq On : 4 Apr 2016 11:56 pm Operator: sarad
Sample : ic6564-80 Inst : MSF
Misc : op92661,ef6564,100 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 5 10:07 2016 Quant Results File: MF6563.RES

Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Apr 05 09:55:18 2016
Response via : Initial Calibration



F156061.D MF6563.M Tue Apr 05 10:07:56 2016 RT1 Page 2

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6564\F156062.D Vial: 4
Acq On : 5 Apr 2016 12:25 am Operator: sarad
Sample : icc6564-50 Inst : MSF
Misc : op92661,ef6564,100 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 05 09:55:59 2016 Quant Results File: MF6563.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Apr 05 09:55:18 2016
Response via : Initial Calibration
DataAcq Meth : MF6563

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.88	152	789682	40.00	ppm	0.00
24) Naphthalene-d8	5.80	136	3030346	40.00	ppm	0.00
47) Acenaphthene-d10	7.27	164	1607375	40.00	ppm	0.00
69) Phenanthrene-d10	9.21	188	2850459	40.00	ppm	0.00
83) Chrysene-d12	14.53	240	2641342	40.00	ppm	-0.02
92) Perylene-d12	17.58	264	2578423	40.00	ppm	-0.01
102) 1,4-Dichlorobenzene-d4A	4.88	152	789682	40.00	ppm	0.00
112) Naphthalene-d8A	5.80	136	3030346	40.00	ppm	0.00
121) Acenaphthene-d10A	7.27	164	1607375	40.00	ppm	0.00
132) Phenanthrene-d10A	9.21	188	2850459	40.00	ppm	0.00
147) Chrysene-d12A	14.53	240	2641342	40.00	ppm	-0.02
155) Perylene-d12A	17.58	264	2578423	40.00	ppm	-0.01
159) 1,4-Dichlorobenzene-d4b	4.88	152	789682	40.00	ppm	0.00
161) Naphthalene-d8b	5.80	136	3030346	40.00	ppm	0.00
163) Acenaphthene-d10b	7.27	164	1607375	40.00	ppm	0.00
165) Phenanthrene-d10b	9.21	188	2850459	40.00	ppm	0.00
167) Chrysene-d12b	14.53	240	2641342	40.00	ppm	0.00
169) 1,4-Dichlorobenzene-d4c	4.88	152	789682	40.00	ppm	0.00
171) Naphthalene-d8c	5.80	136	3030346	40.00	ppm	0.00
176) Chrysene-d12c	14.53	240	2641342	40.00	ppm	-0.02
178) Naphthalene-d8a	5.80	136	3030346	40.00	ppm	0.15
180) Chrysene-d12B	14.53	240	2641342	40.00	ppm	0.22

System Monitoring Compounds

5) 2-Fluorophenol	0.00	112	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
8) Phenol-d5	0.00	99	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
25) Nitrobenzene-d5	0.00	82	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
51) 2-Fluorobiphenyl	0.00	172	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
73) 2,4,6-Tribromophenol	0.00	330	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
85) Terphenyl-d14	0.00	244	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			

Target Compounds						Qvalue
160) Benzaldehyde	4.56	105	1038509	64.42	ppm	95
162) Hydroquinone	6.07	110	1423940	58.47	ppm	98
164) 1,2,4,5-Tetrachlorobenzene	6.46	216	995643	56.31	ppm	98
166) Atrazine	8.79	200	662708	55.26	ppm	97
168) Benzidine	11.76	184	2444021	84.06	ppm	98

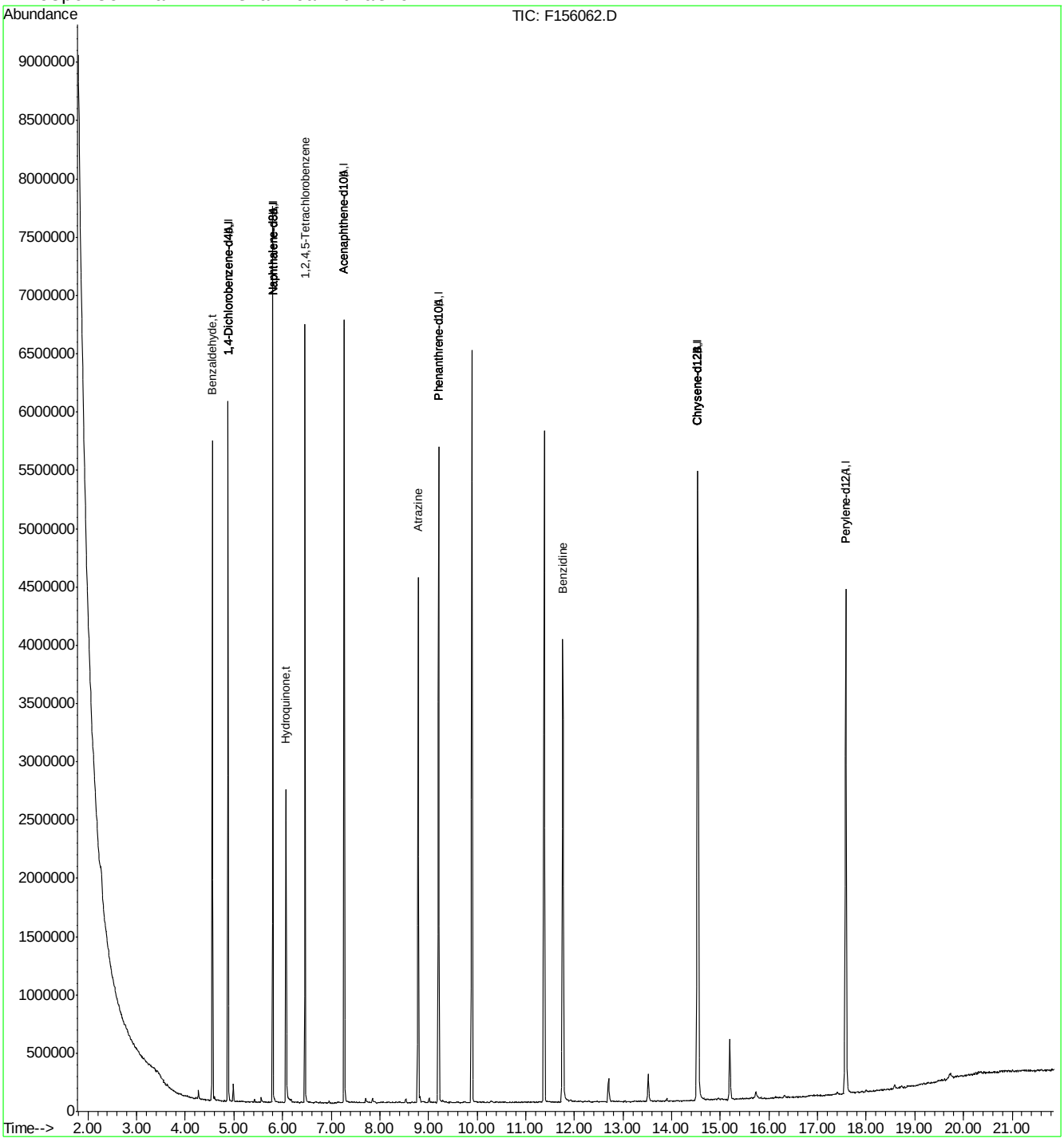
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC21347

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6564\F156062.D Vial: 4
Acq On : 5 Apr 2016 12:25 am Operator: sarad
Sample : icc6564-50 Inst : MSF
Misc : op92661,ef6564,100 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 5 10:08 2016 Quant Results File: MF6563.RES

Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Apr 05 09:55:18 2016
Response via : Initial Calibration



F156062.D MF6563.M Tue Apr 05 10:08:48 2016 RT1 Page 2

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6564\F156063.D Vial: 5
Acq On : 5 Apr 2016 12:53 am Operator: sarad
Sample : ic6564-25 Inst : MSF
Misc : op92661,ef6564,100 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 05 09:56:01 2016 Quant Results File: MF6563.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Apr 05 09:55:18 2016
Response via : Initial Calibration
DataAcq Meth : MF6563

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.88	152	897327	40.00 ppm	0.00
24) Naphthalene-d8	5.80	136	3495590	40.00 ppm	0.00
47) Acenaphthene-d10	7.27	164	1830512	40.00 ppm	0.00
69) Phenanthrene-d10	9.21	188	3215186	40.00 ppm	0.00
83) Chrysene-d12	14.53	240	2889252	40.00 ppm	-0.02
92) Perylene-d12	17.58	264	2749195	40.00 ppm	-0.01
102) 1,4-Dichlorobenzene-d4A	4.88	152	897327	40.00 ppm	0.00
112) Naphthalene-d8A	5.80	136	3495590	40.00 ppm	0.00
121) Acenaphthene-d10A	7.27	164	1830512	40.00 ppm	0.00
132) Phenanthrene-d10A	9.21	188	3215186	40.00 ppm	0.00
147) Chrysene-d12A	14.53	240	2889252	40.00 ppm	-0.02
155) Perylene-d12A	17.58	264	2749195	40.00 ppm	-0.01
159) 1,4-Dichlorobenzene-d4b	4.88	152	897327	40.00 ppm	0.00
161) Naphthalene-d8b	5.80	136	3495590	40.00 ppm	0.00
163) Acenaphthene-d10b	7.27	164	1830512	40.00 ppm	0.00
165) Phenanthrene-d10b	9.21	188	3215186	40.00 ppm	0.00
167) Chrysene-d12b	14.53	240	2889252	40.00 ppm	0.00
169) 1,4-Dichlorobenzene-d4c	4.88	152	897327	40.00 ppm	0.00
171) Naphthalene-d8c	5.80	136	3495590	40.00 ppm	0.00
176) Chrysene-d12c	14.53	240	2889252	40.00 ppm	-0.02
178) Naphthalene-d8a	5.80	136	3495590	40.00 ppm	0.15
180) Chrysene-d12B	14.53	240	2889252	40.00 ppm	0.22

System Monitoring Compounds

5) 2-Fluorophenol	0.00	112	0	0.00 ppm	
Spiked Amount 50.000			Recovery = 0.00%		
8) Phenol-d5	0.00	99	0	0.00 ppm	
Spiked Amount 50.000			Recovery = 0.00%		
25) Nitrobenzene-d5	0.00	82	0	0.00 ppm	
Spiked Amount 50.000			Recovery = 0.00%		
51) 2-Fluorobiphenyl	0.00	172	0d	0.00 ppm	
Spiked Amount 50.000			Recovery = 0.00%		
73) 2,4,6-Tribromophenol	0.00	330	0	0.00 ppm	
Spiked Amount 50.000			Recovery = 0.00%		
85) Terphenyl-d14	0.00	244	0d	0.00 ppm	
Spiked Amount 50.000			Recovery = 0.00%		

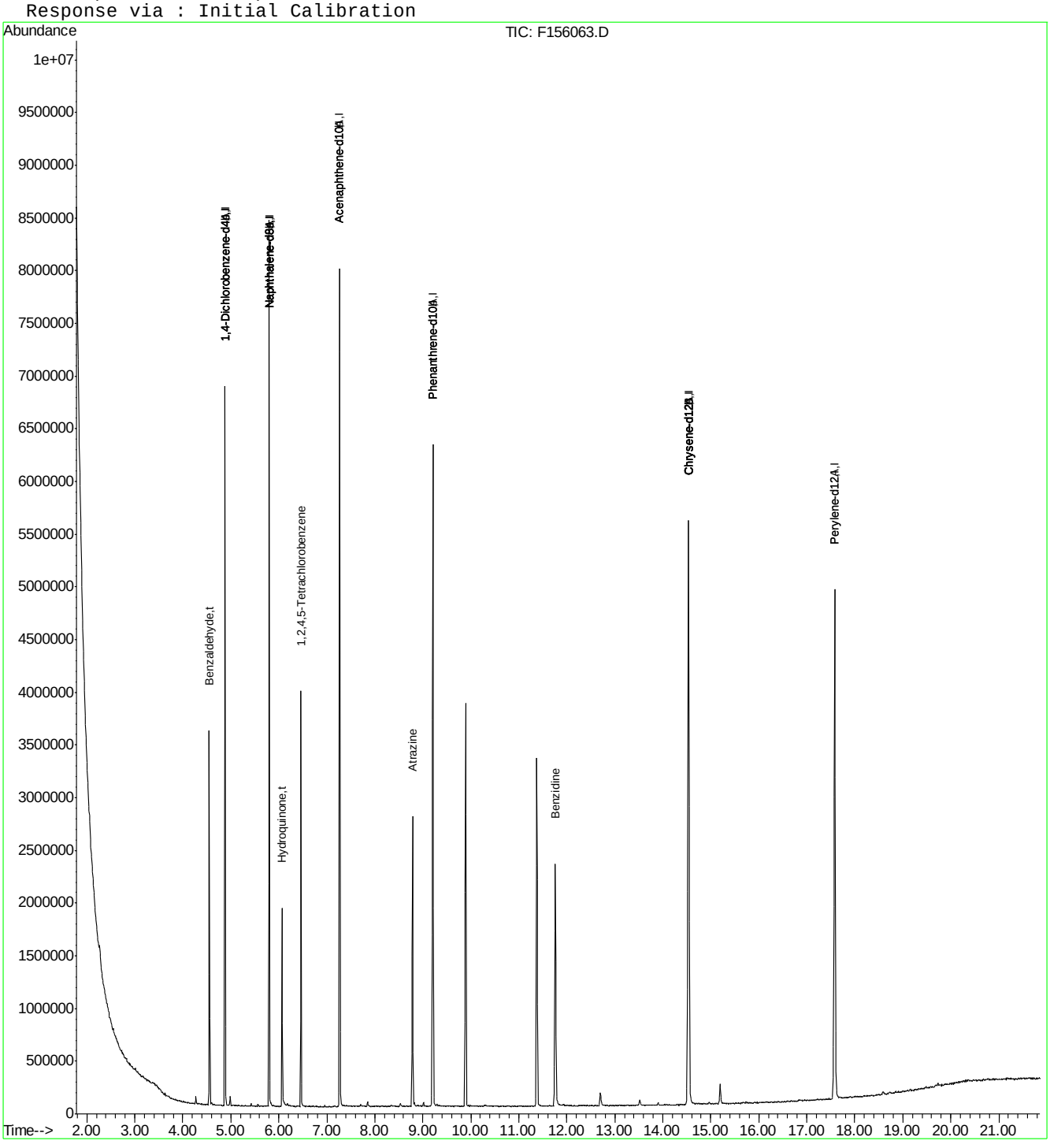
Target Compounds					Qvalue
160) Benzaldehyde	4.55	105	625383	34.14 ppm	93
162) Hydroquinone	6.06	110	789896	28.12 ppm	98
164) 1,2,4,5-Tetrachlorobenzene	6.46	216	610612	30.33 ppm	98
166) Atrazine	8.79	200	385755	28.52 ppm	98
168) Benzidine	11.76	184	1398321	43.97 ppm	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed
F156063.D MF6563.M Tue Apr 05 10:09:35 2016 RT1

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6564\F156063.D Vial: 5
Acq On : 5 Apr 2016 12:53 am Operator: sarad
Sample : ic6564-25 Inst : MSF
Misc : op92661,ef6564,100 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 5 10:09 2016 Quant Results File: MF6563.RES

Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Apr 05 09:55:18 2016
Response via : Initial Calibration



F156063.D MF6563.M Tue Apr 05 10:09:35 2016 RT1 Page 2

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6564\F156064.D Vial: 6
Acq On : 5 Apr 2016 1:22 am Operator: sarad
Sample : ic6564-10 Inst : MSF
Misc : op92661,ef6564,100 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 05 09:56:03 2016 Quant Results File: MF6563.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Apr 05 09:55:18 2016
Response via : Initial Calibration
DataAcq Meth : MF6563

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.88	152	885213	40.00 ppm	0.00
24) Naphthalene-d8	5.80	136	3420800	40.00 ppm	0.00
47) Acenaphthene-d10	7.27	164	1822219	40.00 ppm	0.00
69) Phenanthrene-d10	9.21	188	3282226	40.00 ppm	0.00
83) Chrysene-d12	14.53	240	3053939	40.00 ppm	-0.02
92) Perylene-d12	17.59	264	2907168	40.00 ppm	0.00
102) 1,4-Dichlorobenzene-d4A	4.88	152	885213	40.00 ppm	0.00
112) Naphthalene-d8A	5.80	136	3420800	40.00 ppm	0.00
121) Acenaphthene-d10A	7.27	164	1822219	40.00 ppm	0.00
132) Phenanthrene-d10A	9.21	188	3282226	40.00 ppm	0.00
147) Chrysene-d12A	14.53	240	3053939	40.00 ppm	-0.02
155) Perylene-d12A	17.59	264	2907168	40.00 ppm	0.00
159) 1,4-Dichlorobenzene-d4b	4.88	152	885213	40.00 ppm	0.00
161) Naphthalene-d8b	5.80	136	3420800	40.00 ppm	0.00
163) Acenaphthene-d10b	7.27	164	1822219	40.00 ppm	0.00
165) Phenanthrene-d10b	9.21	188	3282226	40.00 ppm	0.00
167) Chrysene-d12b	14.53	240	3053939	40.00 ppm	0.00
169) 1,4-Dichlorobenzene-d4c	4.88	152	885213	40.00 ppm	0.00
171) Naphthalene-d8c	5.80	136	3420800	40.00 ppm	0.00
176) Chrysene-d12c	14.53	240	3053939	40.00 ppm	-0.02
178) Naphthalene-d8a	5.80	136	3420800	40.00 ppm	0.15
180) Chrysene-d12B	14.53	240	3053939	40.00 ppm	0.22

System Monitoring Compounds					
5) 2-Fluorophenol	0.00	112	0	0.00 ppm	
Spiked Amount 50.000			Recovery = 0.00%		
8) Phenol-d5	0.00	99	0	0.00 ppm	
Spiked Amount 50.000			Recovery = 0.00%		
25) Nitrobenzene-d5	0.00	82	0	0.00 ppm	
Spiked Amount 50.000			Recovery = 0.00%		
51) 2-Fluorobiphenyl	0.00	172	0	0.00 ppm	
Spiked Amount 50.000			Recovery = 0.00%		
73) 2,4,6-Tribromophenol	0.00	330	0	0.00 ppm	
Spiked Amount 50.000			Recovery = 0.00%		
85) Terphenyl-d14	0.00	244	0d	0.00 ppm	
Spiked Amount 50.000			Recovery = 0.00%		

Target Compounds					Qvalue
160) Benzaldehyde	4.55	105	256018	14.17 ppm	94
162) Hydroquinone	6.06	110	302905	11.02 ppm	98
164) 1,2,4,5-Tetrachlorobenzene	6.46	216	258989	12.92 ppm	98
166) Atrazine	8.78	200	158420	11.47 ppm	97
168) Benzidine	11.76	184	592694	17.63 ppm	97

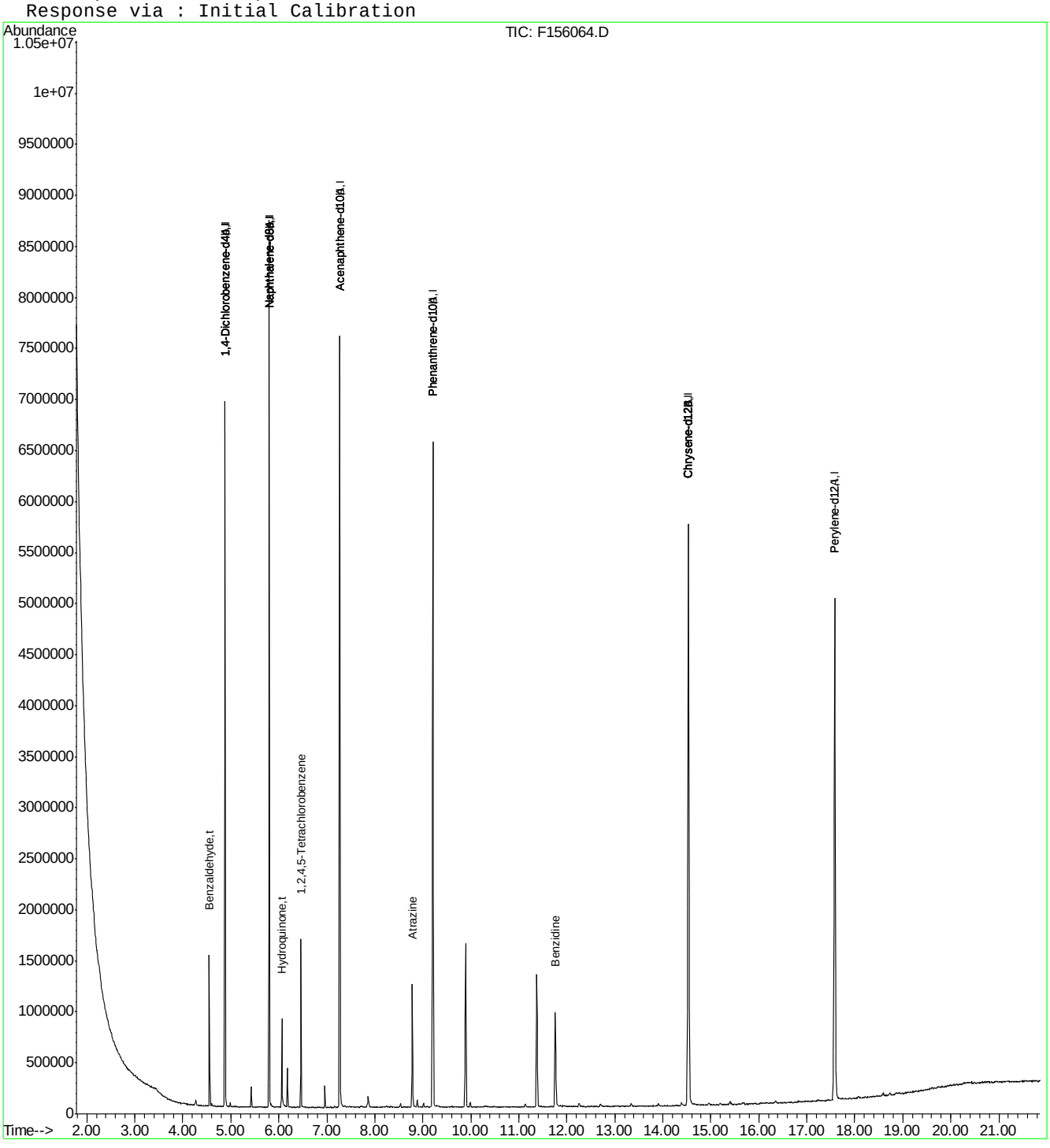
(#) = qualifier out of range (m) = manual integration (+) = signals summed
F156064.D MF6563.M Tue Apr 05 10:10:29 2016 RT1

SGS ACCUTEST JC21347

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6564\F156064.D Vial: 6
Acq On : 5 Apr 2016 1:22 am Operator: sarad
Sample : ic6564-10 Inst : MSF
Misc : op92661,ef6564,100 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 5 10:10 2016 Quant Results File: MF6563.RES

Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Apr 05 09:55:18 2016
Response via : Initial Calibration



SGS ACCUTEST JC21347

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6564\F156065.D Vial: 7
Acq On : 5 Apr 2016 1:51 am Operator: sarad
Sample : ic6564-5 Inst : MSF
Misc : op92661,ef6564,100 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 05 09:56:05 2016 Quant Results File: MF6563.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Apr 05 09:55:18 2016
Response via : Initial Calibration
DataAcq Meth : MF6563

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.88	152	935945	40.00	ppm	0.00
24) Naphthalene-d8	5.80	136	3563923	40.00	ppm	0.00
47) Acenaphthene-d10	7.27	164	1902764	40.00	ppm	0.00
69) Phenanthrene-d10	9.21	188	3340344	40.00	ppm	0.00
83) Chrysene-d12	14.53	240	3114492	40.00	ppm	-0.02
92) Perylene-d12	17.59	264	2956755	40.00	ppm	0.00
102) 1,4-Dichlorobenzene-d4A	4.88	152	935945	40.00	ppm	0.00
112) Naphthalene-d8A	5.80	136	3563923	40.00	ppm	0.00
121) Acenaphthene-d10A	7.27	164	1902764	40.00	ppm	0.00
132) Phenanthrene-d10A	9.21	188	3340344	40.00	ppm	0.00
147) Chrysene-d12A	14.53	240	3114492	40.00	ppm	-0.02
155) Perylene-d12A	17.59	264	2956755	40.00	ppm	0.00
159) 1,4-Dichlorobenzene-d4b	4.88	152	935945	40.00	ppm	0.00
161) Naphthalene-d8b	5.80	136	3563923	40.00	ppm	0.00
163) Acenaphthene-d10b	7.27	164	1902764	40.00	ppm	0.00
165) Phenanthrene-d10b	9.21	188	3340344	40.00	ppm	0.00
167) Chrysene-d12b	14.53	240	3114492	40.00	ppm	0.00
169) 1,4-Dichlorobenzene-d4c	4.88	152	935945	40.00	ppm	0.00
171) Naphthalene-d8c	5.80	136	3563923	40.00	ppm	0.00
176) Chrysene-d12c	14.53	240	3114492	40.00	ppm	-0.02
178) Naphthalene-d8a	5.80	136	3563923	40.00	ppm	0.15
180) Chrysene-d12B	14.53	240	3114492	40.00	ppm	0.22

System Monitoring Compounds

5) 2-Fluorophenol	0.00	112	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
8) Phenol-d5	0.00	99	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
25) Nitrobenzene-d5	0.00	82	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
51) 2-Fluorobiphenyl	0.00	172	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
73) 2,4,6-Tribromophenol	0.00	330	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
85) Terphenyl-d14	0.00	244	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			

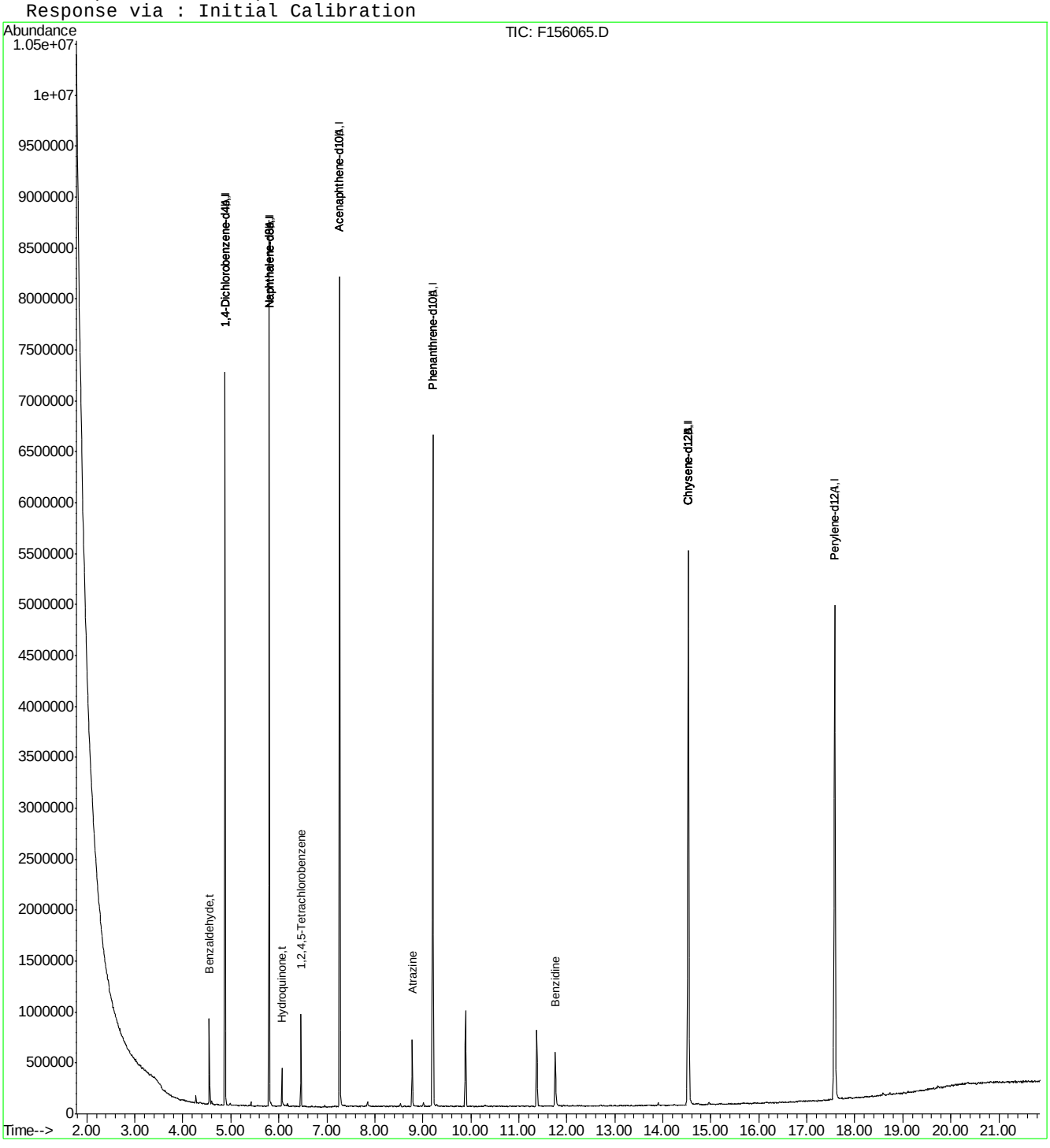
Target Compounds						Qvalue
160) Benzaldehyde	4.55	105	148058	7.75	ppm	91
162) Hydroquinone	6.06	110	146743	5.12	ppm	98
164) 1,2,4,5-Tetrachlorobenzene	6.46	216	152792	7.30	ppm	97
166) Atrazine	8.78	200	90736	6.46	ppm	95
168) Benzidine	11.76	184	331741	9.68	ppm	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed
F156065.D MF6563.M Tue Apr 05 10:11:14 2016 RT1

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6564\F156065.D Vial: 7
Acq On : 5 Apr 2016 1:51 am Operator: sarad
Sample : ic6564-5 Inst : MSF
Misc : op92661,ef6564,100 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 5 10:11 2016 Quant Results File: MF6563.RES

Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Apr 05 09:55:18 2016
Response via : Initial Calibration



F156065.D MF6563.M Tue Apr 05 10:11:14 2016 RT1 Page 2

SGS ACCUTEST JC21347

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6564\F156066.D Vial: 8
Acq On : 5 Apr 2016 2:19 am Operator: sarad
Sample : ic6564-2 Inst : MSF
Misc : op92661,ef6564,100 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 05 09:56:33 2016 Quant Results File: MF6563.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Apr 05 09:55:18 2016
Response via : Initial Calibration
DataAcq Meth : MF6563

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.88	152	962586	40.00 ppm	0.00
24) Naphthalene-d8	5.80	136	3652889	40.00 ppm	0.00
47) Acenaphthene-d10	7.27	164	1925626	40.00 ppm	0.00
69) Phenanthrene-d10	9.21	188	3455884	40.00 ppm	0.00
83) Chrysene-d12	14.53	240	3185957	40.00 ppm	-0.02
92) Perylene-d12	17.58	264	3042111	40.00 ppm	-0.01
102) 1,4-Dichlorobenzene-d4A	4.88	152	962586	40.00 ppm	0.00
112) Naphthalene-d8A	5.80	136	3652889	40.00 ppm	0.00
121) Acenaphthene-d10A	7.27	164	1925626	40.00 ppm	0.00
132) Phenanthrene-d10A	9.21	188	3455884	40.00 ppm	0.00
147) Chrysene-d12A	14.53	240	3185957	40.00 ppm	-0.02
155) Perylene-d12A	17.58	264	3042111	40.00 ppm	-0.01
159) 1,4-Dichlorobenzene-d4b	4.88	152	962586	40.00 ppm	0.00
161) Naphthalene-d8b	5.80	136	3652889	40.00 ppm	0.00
163) Acenaphthene-d10b	7.27	164	1925626	40.00 ppm	0.00
165) Phenanthrene-d10b	9.21	188	3455884	40.00 ppm	0.00
167) Chrysene-d12b	14.53	240	3185957	40.00 ppm	0.00
169) 1,4-Dichlorobenzene-d4c	4.88	152	962586	40.00 ppm	0.00
171) Naphthalene-d8c	5.80	136	3652889	40.00 ppm	0.00
176) Chrysene-d12c	14.53	240	3185957	40.00 ppm	-0.02
178) Naphthalene-d8a	5.80	136	3652889	40.00 ppm	0.15
180) Chrysene-d12B	14.53	240	3185957	40.00 ppm	0.22

System Monitoring Compounds

5) 2-Fluorophenol	0.00	112	0	0.00 ppm	
Spiked Amount 50.000			Recovery = 0.00%		
8) Phenol-d5	0.00	99	0	0.00 ppm	
Spiked Amount 50.000			Recovery = 0.00%		
25) Nitrobenzene-d5	0.00	82	0d	0.00 ppm	
Spiked Amount 50.000			Recovery = 0.00%		
51) 2-Fluorobiphenyl	0.00	172	0	0.00 ppm	
Spiked Amount 50.000			Recovery = 0.00%		
73) 2,4,6-Tribromophenol	0.00	330	0	0.00 ppm	
Spiked Amount 50.000			Recovery = 0.00%		
85) Terphenyl-d14	0.00	244	0d	0.00 ppm	
Spiked Amount 50.000			Recovery = 0.00%		

Target Compounds					Qvalue
160) Benzaldehyde	4.55	105	63241	3.22 ppm	94
162) Hydroquinone	6.06	110	48989	1.67 ppm	95
164) 1,2,4,5-Tetrachlorobenzene	6.46	216	62433	2.95 ppm	99
166) Atrazine	8.78	200	35152	2.42 ppm	94
168) Benzidine	11.76	184	117911	3.36 ppm	94

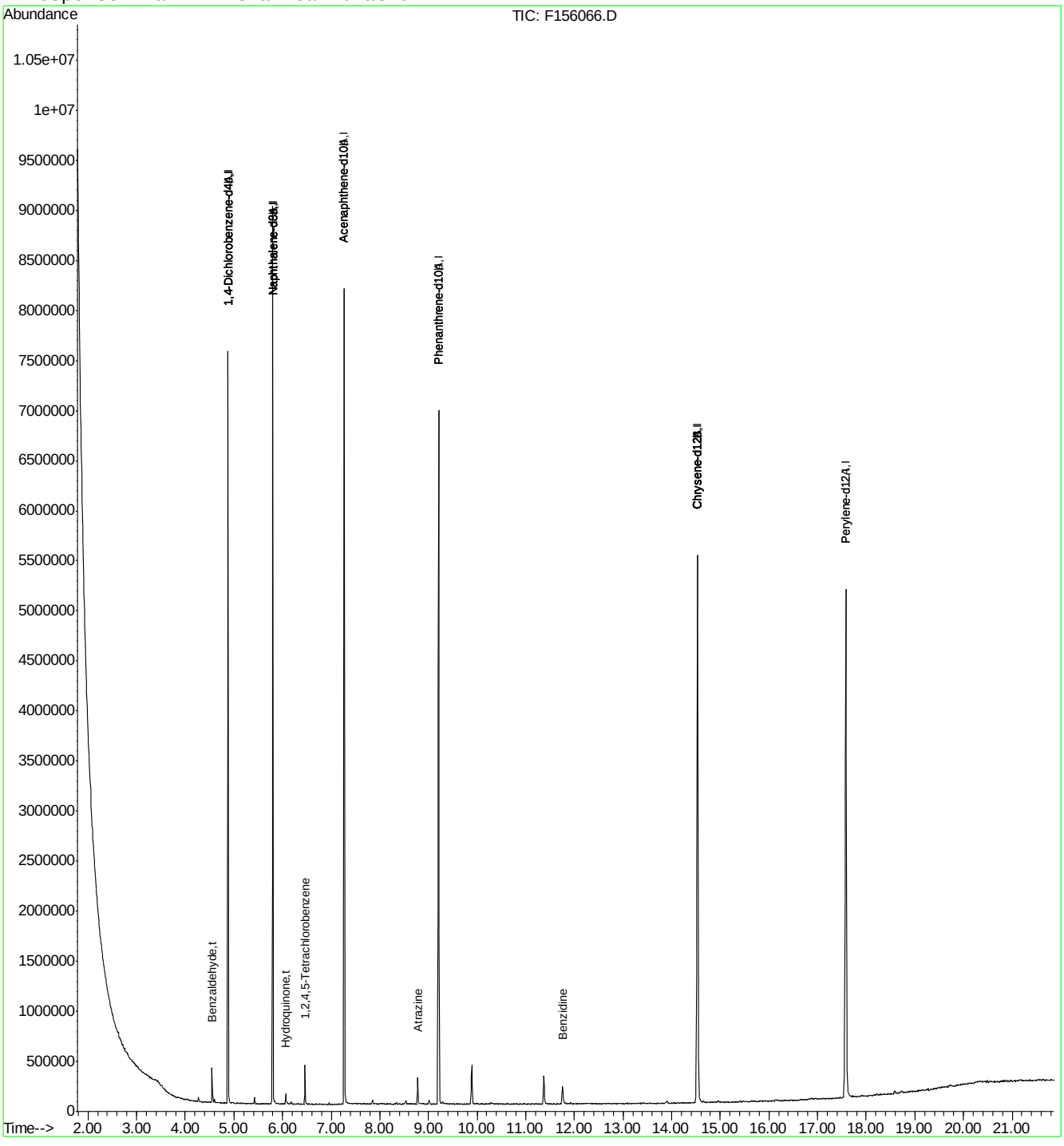
(#) = qualifier out of range (m) = manual integration (+) = signals summed
F156066.D MF6563.M Tue Apr 05 10:12:03 2016 RT1

SGS ACCUTEST JC21347

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6564\F156066.D Vial: 8
Acq On : 5 Apr 2016 2:19 am Operator: sarad
Sample : ic6564-2 Inst : MSF
Misc : op92661,ef6564,100 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 5 10:11 2016 Quant Results File: MF6563.RES

Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Apr 05 09:55:18 2016
Response via : Initial Calibration



F156066.D MF6563.M Tue Apr 05 10:12:03 2016 RT1 Page 2

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6564\F156067.D Vial: 9
Acq On : 5 Apr 2016 2:48 am Operator: sarad
Sample : ic6564-1 Inst : MSF
Misc : op92661,ef6564,100 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 05 09:56:35 2016 Quant Results File: MF6563.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Apr 05 09:55:18 2016
Response via : Initial Calibration
DataAcq Meth : MF6563

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.88	152	901429	40.00 ppm	0.00
24) Naphthalene-d8	5.80	136	3431104	40.00 ppm	0.00
47) Acenaphthene-d10	7.27	164	1802430	40.00 ppm	0.00
69) Phenanthrene-d10	9.21	188	3227891	40.00 ppm	0.00
83) Chrysene-d12	14.53	240	3012466	40.00 ppm	-0.02
92) Perylene-d12	17.58	264	2866400	40.00 ppm	-0.01
102) 1,4-Dichlorobenzene-d4A	4.88	152	901429	40.00 ppm	0.00
112) Naphthalene-d8A	5.80	136	3431104	40.00 ppm	0.00
121) Acenaphthene-d10A	7.27	164	1802430	40.00 ppm	0.00
132) Phenanthrene-d10A	9.21	188	3227891	40.00 ppm	0.00
147) Chrysene-d12A	14.53	240	3012466	40.00 ppm	-0.02
155) Perylene-d12A	17.58	264	2866400	40.00 ppm	-0.01
159) 1,4-Dichlorobenzene-d4b	4.88	152	901429	40.00 ppm	0.00
161) Naphthalene-d8b	5.80	136	3431104	40.00 ppm	0.00
163) Acenaphthene-d10b	7.27	164	1802430	40.00 ppm	0.00
165) Phenanthrene-d10b	9.21	188	3227891	40.00 ppm	0.00
167) Chrysene-d12b	14.53	240	3012466	40.00 ppm	0.00
169) 1,4-Dichlorobenzene-d4c	4.88	152	901429	40.00 ppm	0.00
171) Naphthalene-d8c	5.80	136	3431104	40.00 ppm	0.00
176) Chrysene-d12c	14.53	240	3012466	40.00 ppm	-0.02
178) Naphthalene-d8a	5.80	136	3431104	40.00 ppm	0.15
180) Chrysene-d12B	14.53	240	3012466	40.00 ppm	0.22

System Monitoring Compounds

5) 2-Fluorophenol	0.00	112	0	0.00 ppm	
Spiked Amount 50.000			Recovery = 0.00%		
8) Phenol-d5	0.00	99	0	0.00 ppm	
Spiked Amount 50.000			Recovery = 0.00%		
25) Nitrobenzene-d5	0.00	82	0	0.00 ppm	
Spiked Amount 50.000			Recovery = 0.00%		
51) 2-Fluorobiphenyl	0.00	172	0	0.00 ppm	
Spiked Amount 50.000			Recovery = 0.00%		
73) 2,4,6-Tribromophenol	0.00	330	0	0.00 ppm	
Spiked Amount 50.000			Recovery = 0.00%		
85) Terphenyl-d14	0.00	244	0d	0.00 ppm	
Spiked Amount 50.000			Recovery = 0.00%		

Target Compounds					Qvalue
160) Benzaldehyde	4.56	105	30190	1.64 ppm	94
162) Hydroquinone	6.06	110	21604	0.78 ppm	94
164) 1,2,4,5-Tetrachlorobenzene	6.46	216	29618	1.49 ppm	95
166) Atrazine	8.78	200	16149	1.19 ppm	98
168) Benzidine	11.76	184	50022	1.51 ppm	97

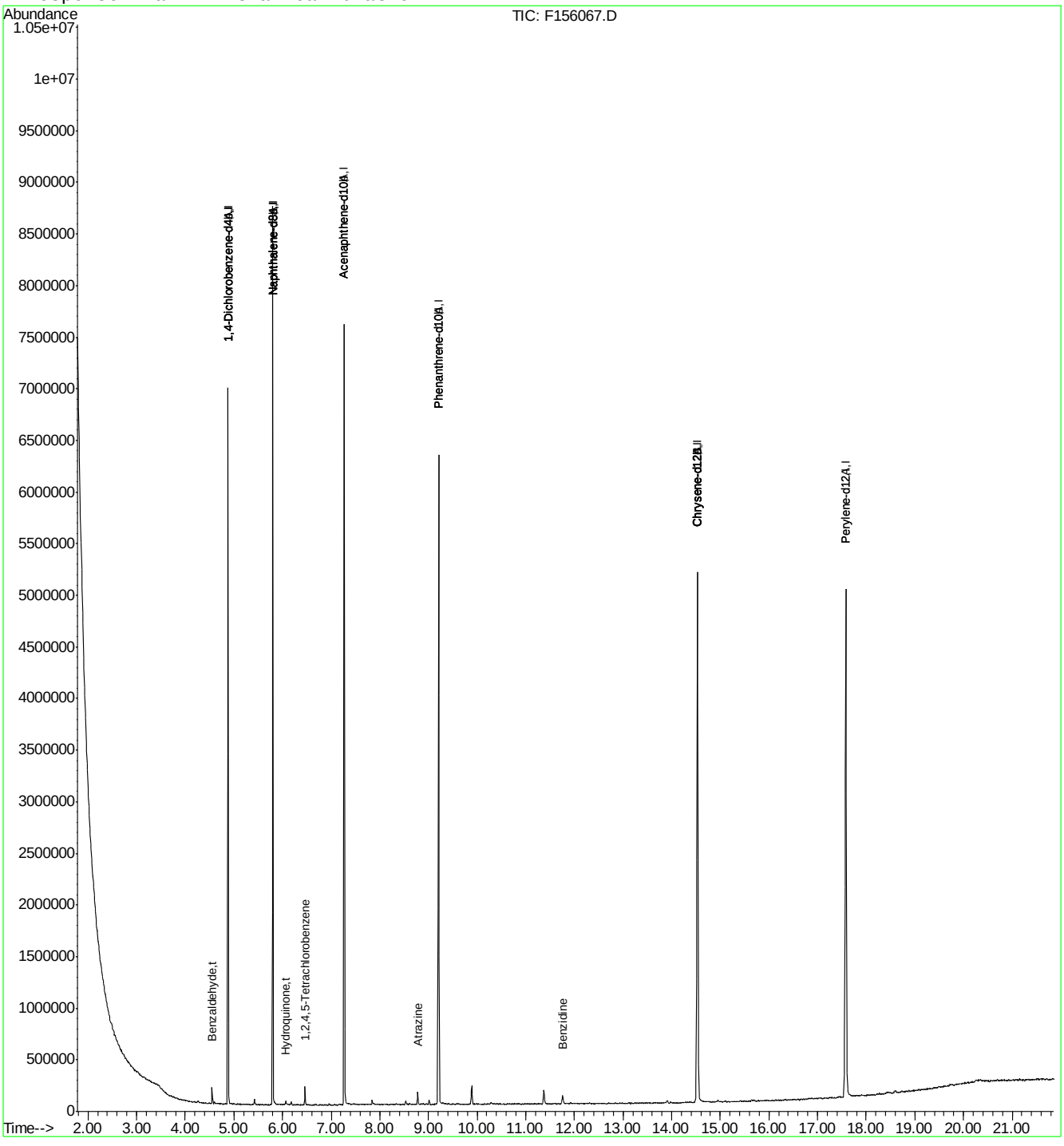
(#) = qualifier out of range (m) = manual integration (+) = signals summed
F156067.D MF6563.M Tue Apr 05 10:12:49 2016 RT1

SGS ACCUTEST JC21347

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6564\F156067.D Vial: 9
Acq On : 5 Apr 2016 2:48 am Operator: sarad
Sample : ic6564-1 Inst : MSF
Misc : op92661,ef6564,100 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 5 10:12 2016 Quant Results File: MF6563.RES

Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Apr 05 09:55:18 2016
Response via : Initial Calibration



F156067.D MF6563.M Tue Apr 05 10:12:49 2016 RT1 Page 2

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6564\F156069.D Vial: 11
Acq On : 5 Apr 2016 3:46 am Operator: sarad
Sample : icv6563-50 Inst : MSF
Misc : op92661,ef6564,100 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 05 10:36:52 2016 Quant Results File: MF6563.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Apr 05 10:36:50 2016
Response via : Initial Calibration
DataAcq Meth : MF6563

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.88	152	864272	40.00	ppm	0.00
24) Naphthalene-d8	5.80	136	3423451	40.00	ppm	0.00
47) Acenaphthene-d10	7.27	164	2005879	40.00	ppm	0.00
69) Phenanthrene-d10	9.21	188	3116817	40.00	ppm	-0.01
83) Chrysene-d12	14.53	240	2569410	40.00	ppm	-0.02
92) Perylene-d12	17.58	264	1956035	40.00	ppm	-0.01
102) 1,4-Dichlorobenzene-d4A	4.88	152	864272	40.00	ppm	0.00
112) Naphthalene-d8A	5.80	136	3423451	40.00	ppm	0.00
121) Acenaphthene-d10A	7.27	164	2005879	40.00	ppm	0.00
132) Phenanthrene-d10A	9.21	188	3116817	40.00	ppm	-0.01
147) Chrysene-d12A	14.53	240	2569410	40.00	ppm	-0.02
155) Perylene-d12A	17.58	264	1956035	40.00	ppm	-0.01
159) 1,4-Dichlorobenzene-d4b	4.88	152	864272	40.00	ppm	0.00
161) Naphthalene-d8b	5.80	136	3423451	40.00	ppm	0.00
163) Acenaphthene-d10b	7.27	164	2005879	40.00	ppm	0.00
165) Phenanthrene-d10b	9.21	188	3116817	40.00	ppm	0.00
167) Chrysene-d12b	14.53	240	2569410	40.00	ppm	0.00
169) 1,4-Dichlorobenzene-d4c	4.88	152	864272	40.00	ppm	0.00
171) Naphthalene-d8c	5.80	136	3423451	40.00	ppm	0.00
176) Chrysene-d12c	14.53	240	2569410	40.00	ppm	-0.02
178) Naphthalene-d8a	5.80	136	3423451	40.00	ppm	0.15
180) Chrysene-d12B	14.53	240	2569410	40.00	ppm	0.22

System Monitoring Compounds

5) 2-Fluorophenol	0.00	112	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
8) Phenol-d5	0.00	99	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
25) Nitrobenzene-d5	0.00	82	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
51) 2-Fluorobiphenyl	0.00	172	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
73) 2,4,6-Tribromophenol	0.00	330	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
85) Terphenyl-d14	0.00	244	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			

Target Compounds

						Qvalue
3) Pyridine	2.86	79	1586125	50.31	ppm	99
10) Aniline	4.64	93	2279154	52.93	ppm	100
16) Benzyl alcohol	4.98	108	994014	48.58	ppm	97
39) 4-Chloroaniline	5.85	127	1781416	46.15	ppm	97
44) 2-Methylnaphthalene	6.33	141	2274002	43.13	ppm	100
54) 2-Nitroaniline	6.82	65	730620	44.48	ppm	99
58) 3-Nitroaniline	7.21	138	763794	43.52	ppm	98
62) Dibenzofuran	7.49	168	3529125	43.82	ppm	100
68) 4-Nitroaniline	7.90	138	731613	41.28	ppm	98
79) Carbazole	9.61	167	3790834	44.96	ppm	99

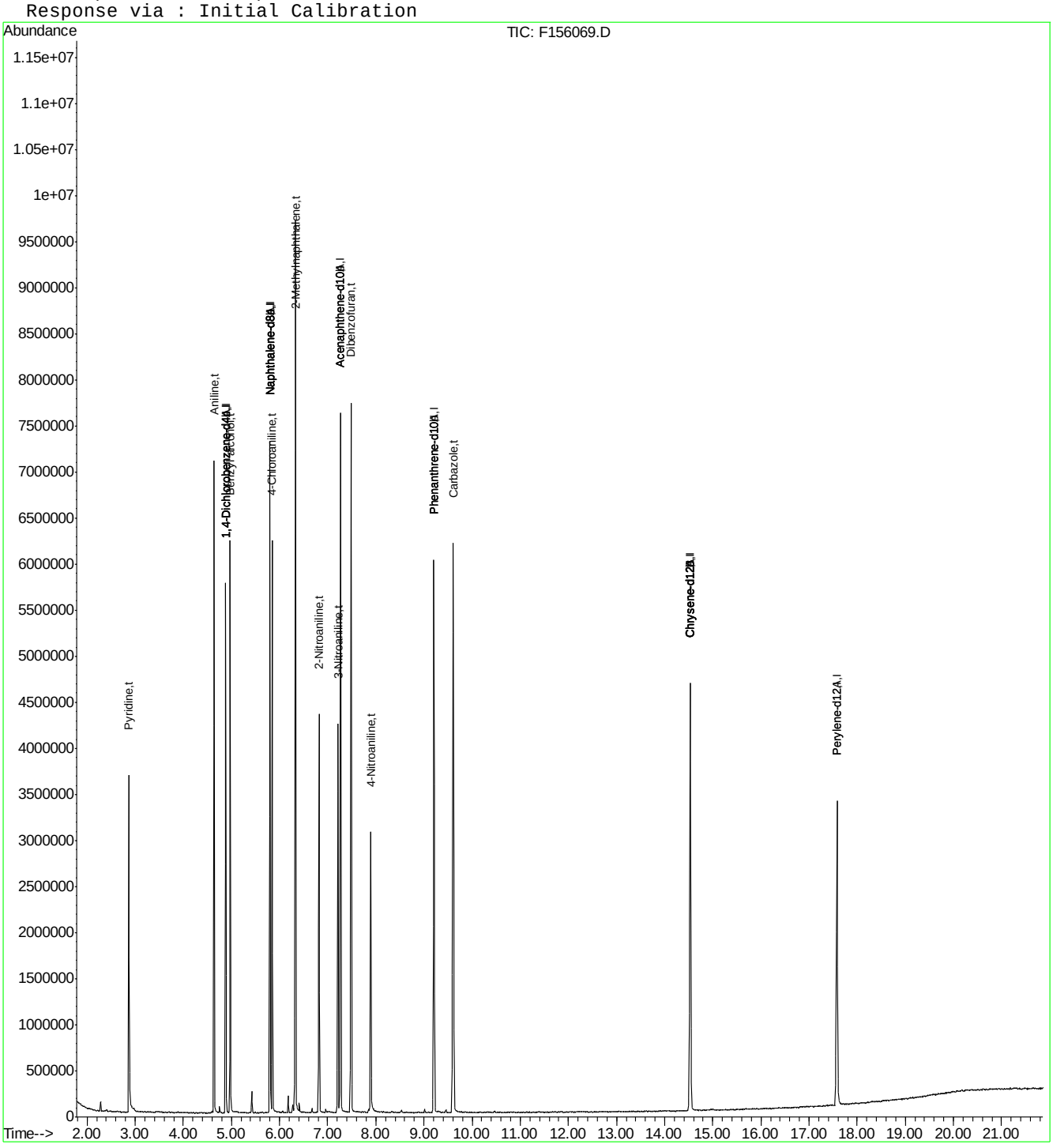
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC21347

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6564\F156069.D Vial: 11
Acq On : 5 Apr 2016 3:46 am Operator: sarad
Sample : icv6563-50 Inst : MSF
Misc : op92661,ef6564,100 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 5 10:38 2016 Quant Results File: MF6563.RES

Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Apr 05 10:36:50 2016
Response via : Initial Calibration



F156069.D MF6563.M Tue Apr 05 10:38:58 2016 RT1 Page 2

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6564\F156070.D Vial: 12
Acq On : 5 Apr 2016 4:15 am Operator: sarad
Sample : icv6563-50 Inst : MSF
Misc : op92661,ef6564,100 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 05 09:46:20 2016 Quant Results File: MF6563.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Apr 05 09:45:41 2016
Response via : Initial Calibration
DataAcq Meth : MF6563

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.88	152	887640	40.00	ppm	0.00
24) Naphthalene-d8	5.80	136	3267655	40.00	ppm	0.00
47) Acenaphthene-d10	7.27	164	1882697	40.00	ppm	0.00
69) Phenanthrene-d10	9.21	188	2875140	40.00	ppm	-0.01
83) Chrysene-d12	14.53	240	2396451	40.00	ppm	-0.02
92) Perylene-d12	17.58	264	2121009	40.00	ppm	-0.01
102) 1,4-Dichlorobenzene-d4A	4.88	152	887640	40.00	ppm	0.00
112) Naphthalene-d8A	5.80	136	3267655	40.00	ppm	0.00
121) Acenaphthene-d10A	7.27	164	1882697	40.00	ppm	0.00
132) Phenanthrene-d10A	9.21	188	2875140	40.00	ppm	-0.01
147) Chrysene-d12A	14.53	240	2396451	40.00	ppm	-0.02
155) Perylene-d12A	17.58	264	2121009	40.00	ppm	-0.01
159) 1,4-Dichlorobenzene-d4b	4.88	152	887640	40.00	ppm	0.00
161) Naphthalene-d8b	5.80	136	3267655	40.00	ppm	0.00
163) Acenaphthene-d10b	7.27	164	1882697	40.00	ppm	0.00
165) Phenanthrene-d10b	9.21	188	2875140	40.00	ppm	0.00
167) Chrysene-d12b	14.53	240	2396451	40.00	ppm	0.13
169) 1,4-Dichlorobenzene-d4c	4.88	152	887640	40.00	ppm	0.00
171) Naphthalene-d8c	5.80	136	3267655	40.00	ppm	0.00
176) Chrysene-d12c	14.53	240	2396451	40.00	ppm	-0.02
178) Naphthalene-d8a	5.80	136	3267655	40.00	ppm	0.15
180) Chrysene-d12B	14.53	240	2396451	40.00	ppm	0.22

System Monitoring Compounds						
5) 2-Fluorophenol	3.89	112	1362727	43.66	ppm	0.00
Spiked Amount 50.000			Recovery = 87.32%			
8) Phenol-d5	4.60	99	1634955	43.07	ppm	0.00
Spiked Amount 50.000			Recovery = 86.14%			
25) Nitrobenzene-d5	5.28	82	1353390	44.35	ppm	0.00
Spiked Amount 50.000			Recovery = 88.70%			
51) 2-Fluorobiphenyl	6.63	172	2602481	43.31	ppm	0.00
Spiked Amount 50.000			Recovery = 86.62%			
73) 2,4,6-Tribromophenol	8.19	330	257319	43.86	ppm	-0.01
Spiked Amount 50.000			Recovery = 87.72%			
85) Terphenyl-d14	12.30	244	2096294	43.07	ppm	0.00
Spiked Amount 50.000			Recovery = 86.14%			

Target Compounds Qvalue

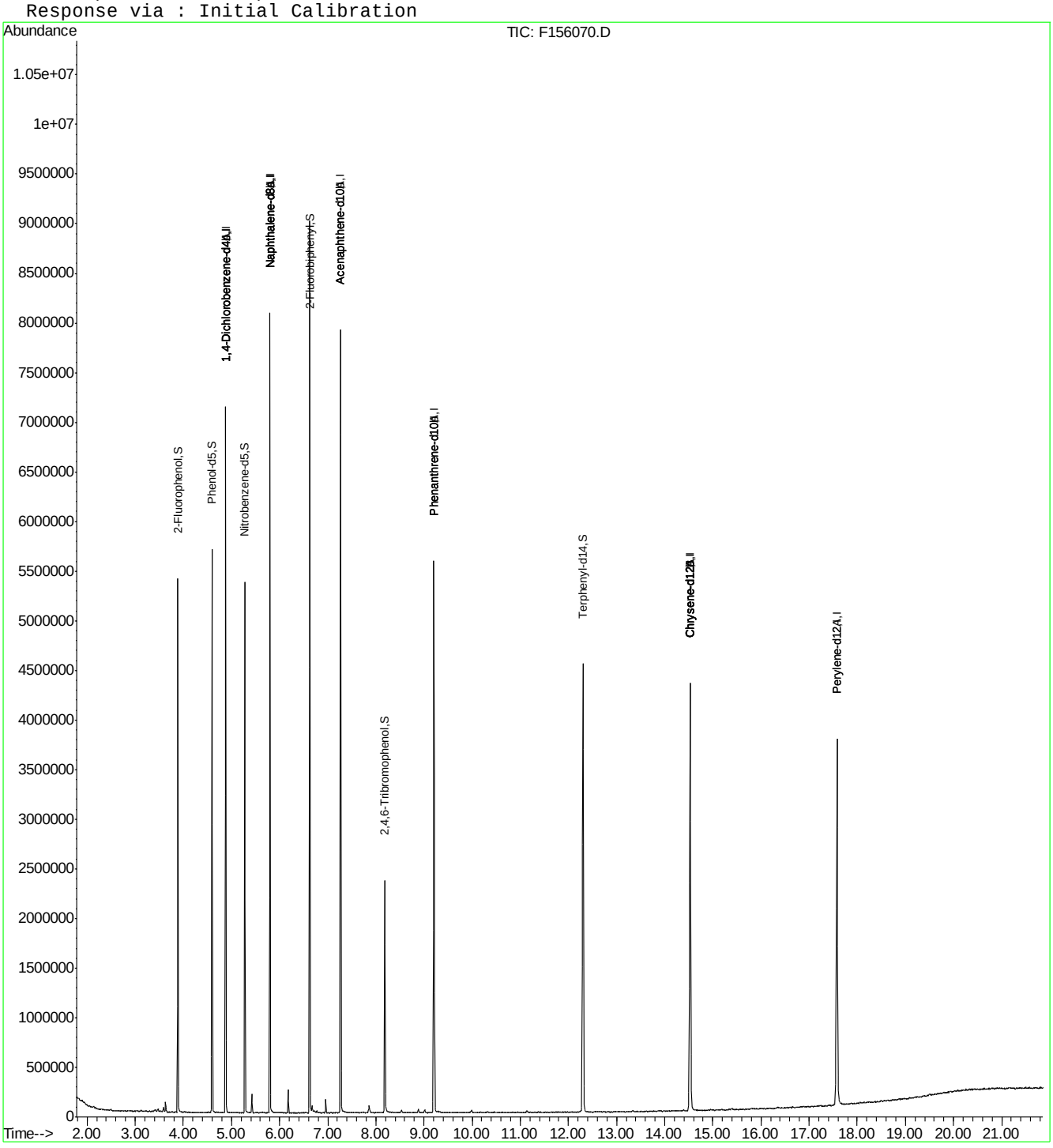
(#) = qualifier out of range (m) = manual integration (+) = signals summed
F156070.D MF6563.M Wed Apr 06 15:30:52 2016 RT1

SGS ACCUTEST JC21347

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6564\F156070.D Vial: 12
Acq On : 5 Apr 2016 4:15 am Operator: sarad
Sample : icv6563-50 Inst : MSF
Misc : op92661,ef6564,100 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 5 10:39 2016 Quant Results File: MF6563.RES

Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Wed Apr 06 08:33:31 2016
Response via : Initial Calibration



F156070.D MF6563.M Wed Apr 06 15:30:52 2016 RT1 Page 2

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6564\F156071.D Vial: 13
Acq On : 5 Apr 2016 4:44 am Operator: sarad
Sample : icv6563-50 Inst : MSF
Misc : op92661,ef6564,100 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 05 10:44:21 2016 Quant Results File: MF6563.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Apr 05 10:36:50 2016
Response via : Initial Calibration
DataAcq Meth : MF6563

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.88	152	791654	40.00	ppm	0.00
24) Naphthalene-d8	5.80	136	2940255	40.00	ppm	0.00
47) Acenaphthene-d10	7.27	164	1650821	40.00	ppm	0.00
69) Phenanthrene-d10	9.21	188	2527126	40.00	ppm	0.00
83) Chrysene-d12	14.54	240	2041490	40.00	ppm	-0.01
92) Perylene-d12	17.58	264	1894786	40.00	ppm	-0.01
102) 1,4-Dichlorobenzene-d4A	4.88	152	791654	40.00	ppm	0.00
112) Naphthalene-d8A	5.80	136	2940255	40.00	ppm	0.00
121) Acenaphthene-d10A	7.27	164	1650821	40.00	ppm	0.00
132) Phenanthrene-d10A	9.21	188	2527126	40.00	ppm	0.00
147) Chrysene-d12A	14.54	240	2041490	40.00	ppm	-0.01
155) Perylene-d12A	17.58	264	1894786	40.00	ppm	-0.01
159) 1,4-Dichlorobenzene-d4b	4.88	152	791654	40.00	ppm	0.00
161) Naphthalene-d8b	5.80	136	2940255	40.00	ppm	0.00
163) Acenaphthene-d10b	7.27	164	1650821	40.00	ppm	0.00
165) Phenanthrene-d10b	9.21	188	2527126	40.00	ppm	0.00
167) Chrysene-d12b	14.54	240	2041490	40.00	ppm	0.00
169) 1,4-Dichlorobenzene-d4c	4.88	152	791654	40.00	ppm	0.00
171) Naphthalene-d8c	5.80	136	2940255	40.00	ppm	0.00
176) Chrysene-d12c	14.54	240	2041490	40.00	ppm	-0.01
178) Naphthalene-d8a	5.80	136	2940255	40.00	ppm	0.15
180) Chrysene-d12B	14.54	240	2041490	40.00	ppm	0.23

System Monitoring Compounds

5) 2-Fluorophenol	0.00	112	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
8) Phenol-d5	0.00	99	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
25) Nitrobenzene-d5	0.00	82	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
51) 2-Fluorobiphenyl	0.00	172	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
73) 2,4,6-Tribromophenol	0.00	330	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
85) Terphenyl-d14	0.00	244	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			

Target Compounds

						Qvalue
4) N-Nitrosodimethylamine	2.76	42	485916	46.76	ppm	98
11) bis(2-Chloroethyl)ether	4.68	93	1249072	48.18	ppm	98
14) 1,3-Dichlorobenzene	4.84	146	1514832	46.47	ppm	98
15) 1,4-Dichlorobenzene	4.89	146	1530755	47.07	ppm	100
17) 1,2-Dichlorobenzene	5.00	146	1452410	47.50	ppm	98
20) 2,2'-oxybis(1-Chloropropan	5.08	121	402803	43.10	ppm	97
22) n-Nitroso-di-n-propylamine	5.17	70	882539	46.14	ppm	94
23) Hexachloroethane	5.25	201	468808	46.54	ppm	96
26) Nitrobenzene	5.29	77	1327194	46.15	ppm	94
28) Isophorone	5.46	82	2413879	49.15	ppm	96
32) bis(2-Chloroethoxy)methane	5.62	93	1407061	45.46	ppm	99
36) 1,2,4-Trichlorobenzene	5.76	180	1103469	45.47	ppm	98

(#) = qualifier out of range (m) = manual integration
F156071.D MF6563.M Thu Apr 07 09:52:13 2016 RT1

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6564\F156071.D Vial: 13
Acq On : 5 Apr 2016 4:44 am Operator: sarad
Sample : icv6563-50 Inst : MSF
Misc : op92661,ef6564,100 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 05 10:44:21 2016 Quant Results File: MF6563.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Apr 05 10:36:50 2016
Response via : Initial Calibration
DataAcq Meth : MF6563

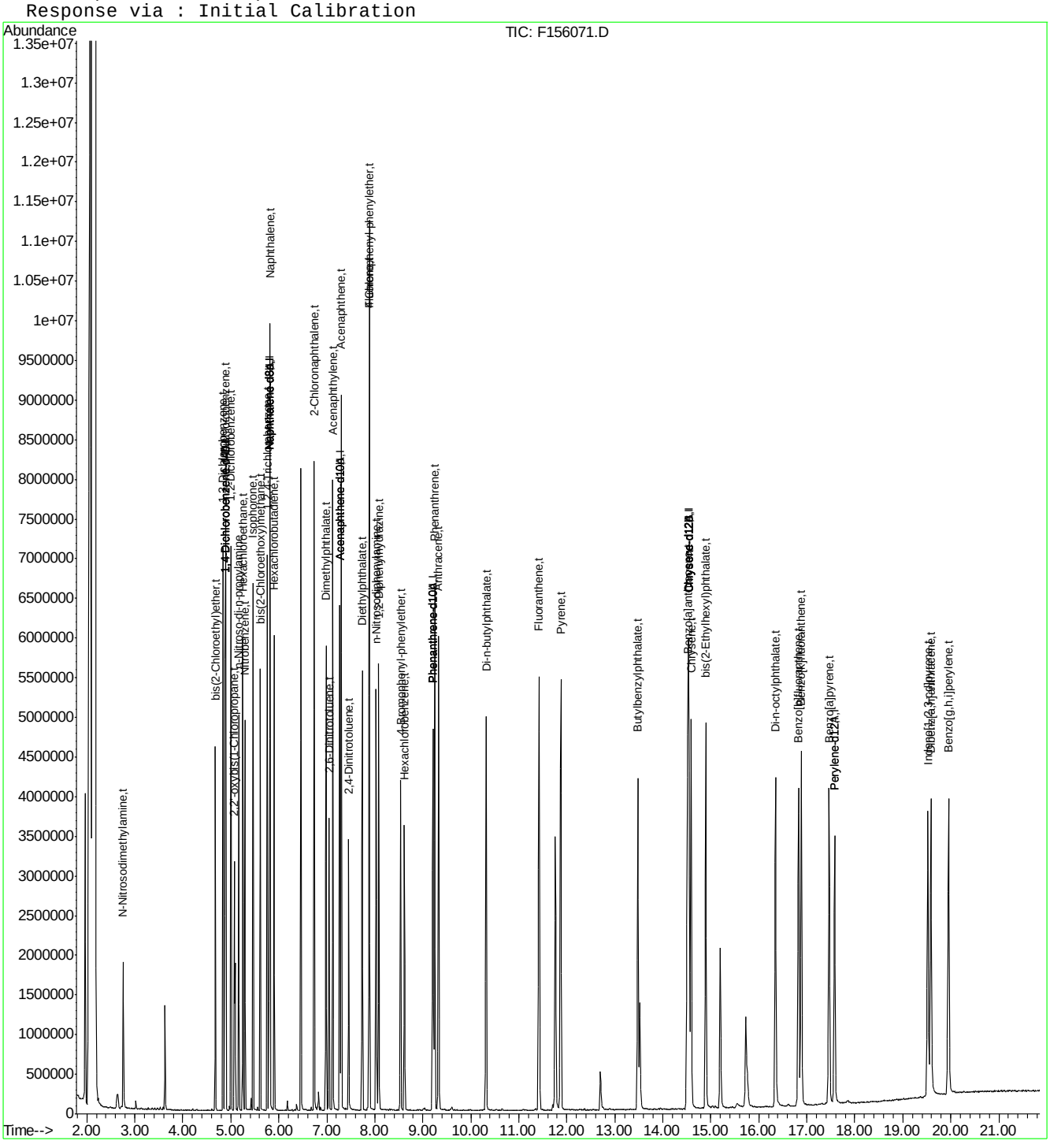
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
38)	Naphthalene	5.82	128	3790901	47.22	ppm	99
42)	Hexachlorobutadiene	5.90	225	535368	46.60	ppm	99
52)	2-Chloronaphthalene	6.74	162	2215777	46.45	ppm	97
55)	Dimethylphthalate	6.98	163	2349889	44.02	ppm	100
56)	Acenaphthylene	7.13	152	3539399	45.77	ppm	99
57)	2,6-Dinitrotoluene	7.05	165	515828	44.71	ppm	93
59)	Acenaphthene	7.30	153	2278169	46.91	ppm	99
63)	2,4-Dinitrotoluene	7.46	165	654129	41.83	ppm	99
65)	Diethylphthalate	7.74	149	2254990	42.74	ppm	100
66)	Fluorene	7.89	166	2284573	44.79	ppm	100
67)	4-Chlorophenyl-phenylether	7.89	204	961950	42.80	ppm	96
71)	n-Nitrosodiphenylamine	8.03	169	1599662	44.14	ppm	99
72)	1,2-Diphenylhydrazine	8.08	77	2466045	49.23	ppm	100
74)	4-Bromophenyl-phenylether	8.54	248	568052	46.63	ppm	99
75)	Hexachlorobenzene	8.62	284	556035	47.82	ppm	95
77)	Phenanthrene	9.25	178	3414104	46.87	ppm	98
78)	Anthracene	9.33	178	3410039	46.76	ppm	99
80)	Di-n-butylphthalate	10.32	149	3880513	45.44	ppm	100
81)	Fluoranthene	11.42	202	3358980	46.50	ppm	99
84)	Pyrene	11.88	202	3587015	49.54	ppm	98
86)	Butylbenzylphthalate	13.48	149	1628471	45.79	ppm	98
88)	Benzo[a]anthracene	14.52	228	2835540	45.86	ppm	100
90)	Chrysene	14.59	228	2848434	46.34	ppm	99
91)	bis(2-Ethylhexyl)phthalate	14.89	149	2239893	45.45	ppm	98
93)	Di-n-octylphthalate	16.35	149	3823114	46.05	ppm	99
94)	Benzo[b]fluoranthene	16.83	252	2720341	46.45	ppm	99
95)	Benzo[k]fluoranthene	16.89	252	2848494	49.70	ppm	99
96)	Benzo[a]pyrene	17.47	252	2596492	48.44	ppm	99
97)	Indeno[1,2,3-cd]pyrene	19.53	276	2372059	47.96	ppm	99
99)	Dibenz[a,h]anthracene	19.59	278	2304304	48.15	ppm	98
101)	Benzo[g,h,i]perylene	19.95	276	2556304	47.82	ppm	97

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

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6564\F156071.D Vial: 13
Acq On : 5 Apr 2016 4:44 am Operator: sarad
Sample : icv6563-50 Inst : MSF
Misc : op92661,ef6564,100 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 7 9:52 2016 Quant Results File: MF6563.RES

Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Wed Apr 06 08:33:31 2016
Response via : Initial Calibration



SGS ACCUTEST JC21347

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6564\F156071A.D Vial: 13
Acq On : 5 Apr 2016 4:44 am Operator: sarad
Sample : icv6563-50 Inst : MSF
Misc : op92661,ef6564,100 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 05 10:44:21 2016 Quant Results File: MF6563.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Apr 05 10:36:50 2016
Response via : Initial Calibration
DataAcq Meth : MF6563

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.88	152	791654	40.00	ppm	0.00
24) Naphthalene-d8	5.80	136	2940255	40.00	ppm	0.00
47) Acenaphthene-d10	7.27	164	1650821	40.00	ppm	0.00
69) Phenanthrene-d10	9.21	188	2527126	40.00	ppm	0.00
83) Chrysene-d12	14.54	240	2041490	40.00	ppm	-0.01
92) Perylene-d12	17.58	264	1894786	40.00	ppm	-0.01
102) 1,4-Dichlorobenzene-d4A	4.88	152	791654	40.00	ppm	0.00
112) Naphthalene-d8A	5.80	136	2940255	40.00	ppm	0.00
121) Acenaphthene-d10A	7.27	164	1650821	40.00	ppm	0.00
132) Phenanthrene-d10A	9.21	188	2527126	40.00	ppm	0.00
147) Chrysene-d12A	14.54	240	2041490	40.00	ppm	-0.01
155) Perylene-d12A	17.58	264	1894786	40.00	ppm	-0.01
159) 1,4-Dichlorobenzene-d4b	4.88	152	791654	40.00	ppm	0.00
161) Naphthalene-d8b	5.80	136	2940255	40.00	ppm	0.00
163) Acenaphthene-d10b	7.27	164	1650821	40.00	ppm	0.00
165) Phenanthrene-d10b	9.21	188	2527126	40.00	ppm	0.00
167) Chrysene-d12b	14.54	240	2041490	40.00	ppm	0.00
169) 1,4-Dichlorobenzene-d4c	4.88	152	791654	40.00	ppm	0.00
171) Naphthalene-d8c	5.80	136	2940255	40.00	ppm	0.00
176) Chrysene-d12c	14.54	240	2041490	40.00	ppm	-0.01
178) Naphthalene-d8a	5.80	136	2940255	40.00	ppm	0.15
180) Chrysene-d12B	14.54	240	2041490	40.00	ppm	0.23

System Monitoring Compounds

5) 2-Fluorophenol	0.00	112	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
8) Phenol-d5	0.00	99	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
25) Nitrobenzene-d5	0.00	82	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
51) 2-Fluorobiphenyl	0.00	172	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
73) 2,4,6-Tribromophenol	0.00	330	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
85) Terphenyl-d14	0.00	244	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			

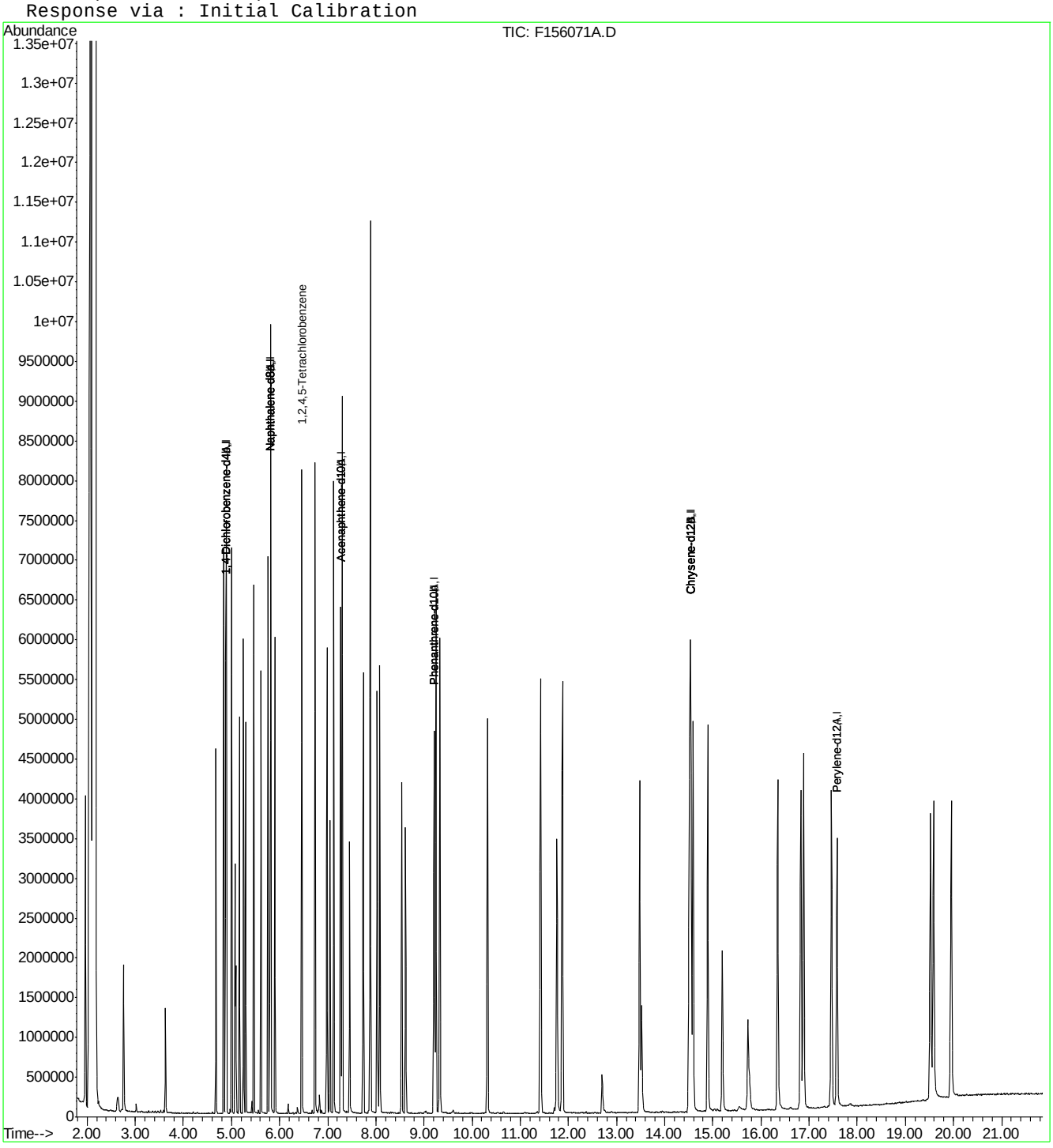
Target Compounds						Qvalue
164) 1,2,4,5-Tetrachlorobenzene	6.46	216	1023403	44.56	ppm	98

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

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6564\F156071A.D Vial: 13
Acq On : 5 Apr 2016 4:44 am Operator: sarad
Sample : icv6563-50 Inst : MSF
Misc : op92661,ef6564,100 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 7 9:52 2016 Quant Results File: MF6563.RES

Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Wed Apr 06 08:33:31 2016
Response via : Initial Calibration



SGS ACCUTEST JC21347

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6564\F156072A.D Vial: 14
Acq On : 5 Apr 2016 5:13 am Operator: sarad
Sample : icv6563-50 Inst : MSF
Misc : op92661,ef6564,100 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 05 10:55:42 2016 Quant Results File: MF6563.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Apr 05 10:36:50 2016
Response via : Initial Calibration
DataAcq Meth : MF6563

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.88	152	857846	40.00	ppm	0.00
24) Naphthalene-d8	5.80	136	3576668	40.00	ppm	0.00
47) Acenaphthene-d10	7.27	164	1817820	40.00	ppm	0.00
69) Phenanthrene-d10	9.21	188	2775738	40.00	ppm	0.00
83) Chrysene-d12	14.53	240	2296061	40.00	ppm	-0.02
92) Perylene-d12	17.58	264	1979067	40.00	ppm	-0.01
102) 1,4-Dichlorobenzene-d4A	4.88	152	857846	40.00	ppm	0.00
112) Naphthalene-d8A	5.80	136	3576668	40.00	ppm	0.00
121) Acenaphthene-d10A	7.27	164	1817820	40.00	ppm	0.00
132) Phenanthrene-d10A	9.21	188	2775738	40.00	ppm	0.00
147) Chrysene-d12A	14.53	240	2296061	40.00	ppm	-0.02
155) Perylene-d12A	17.58	264	1979067	40.00	ppm	-0.01
159) 1,4-Dichlorobenzene-d4b	4.88	152	857846	40.00	ppm	0.00
161) Naphthalene-d8b	5.80	136	3576668	40.00	ppm	0.00
163) Acenaphthene-d10b	7.27	164	1817820	40.00	ppm	0.00
165) Phenanthrene-d10b	9.21	188	2775738	40.00	ppm	0.00
167) Chrysene-d12b	14.53	240	2296061	40.00	ppm	0.00
169) 1,4-Dichlorobenzene-d4c	4.88	152	857846	40.00	ppm	0.00
171) Naphthalene-d8c	5.80	136	3576668	40.00	ppm	0.00
176) Chrysene-d12c	14.53	240	2296061	40.00	ppm	-0.02
178) Naphthalene-d8a	5.80	136	3576668	40.00	ppm	0.15
180) Chrysene-d12B	14.53	240	2296061	40.00	ppm	0.22

System Monitoring Compounds

5) 2-Fluorophenol	0.00	112	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
8) Phenol-d5	0.00	99	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
25) Nitrobenzene-d5	0.00	82	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
51) 2-Fluorobiphenyl	0.00	172	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
73) 2,4,6-Tribromophenol	0.00	330	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
85) Terphenyl-d14	0.00	244	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			

Target Compounds						Qvalue
160) Benzaldehyde	4.56	105	1094500	45.31	ppm	99
166) Atrazine	8.79	200	597779	44.80	ppm	99

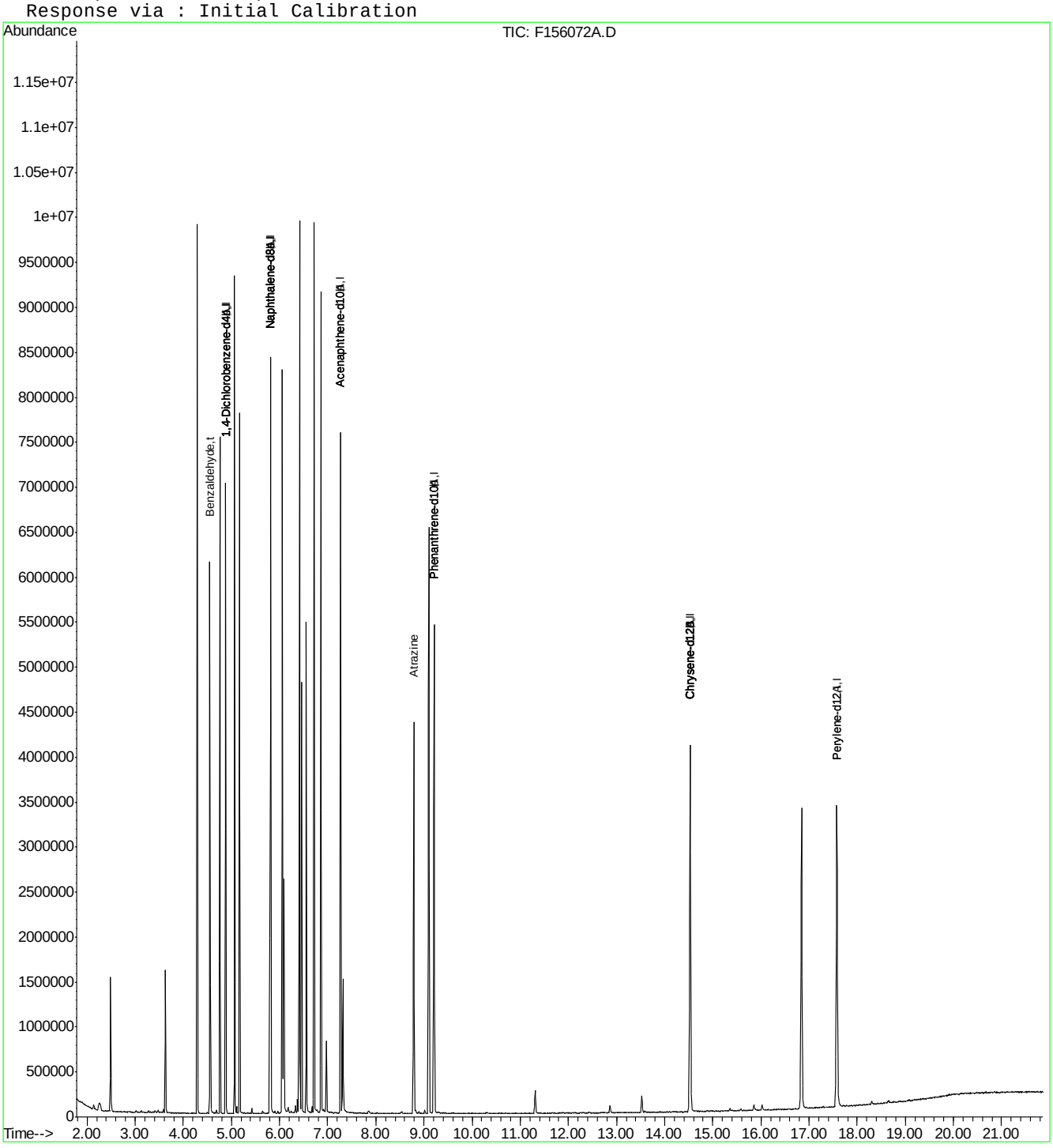
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC21347

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6564\F156072A.D Vial: 14
Acq On : 5 Apr 2016 5:13 am Operator: sarad
Sample : icv6563-50 Inst : MSF
Misc : op92661,ef6564,100 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 7 9:53 2016 Quant Results File: MF6563.RES

Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Wed Apr 06 08:33:31 2016
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6564\F156072.D Vial: 14
Acq On : 5 Apr 2016 5:13 am Operator: sarad
Sample : icv6563-50 Inst : MSF
Misc : op92661,ef6564,100 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 05 10:55:42 2016 Quant Results File: MF6563.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Apr 05 10:36:50 2016
Response via : Initial Calibration
DataAcq Meth : MF6563

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.88	152	857846	40.00	ppm	0.00
24) Naphthalene-d8	5.80	136	3576668	40.00	ppm	0.00
47) Acenaphthene-d10	7.27	164	1817820	40.00	ppm	0.00
69) Phenanthrene-d10	9.21	188	2775738	40.00	ppm	0.00
83) Chrysene-d12	14.53	240	2296061	40.00	ppm	-0.02
92) Perylene-d12	17.58	264	1979067	40.00	ppm	-0.01
102) 1,4-Dichlorobenzene-d4A	4.88	152	857846	40.00	ppm	0.00
112) Naphthalene-d8A	5.80	136	3576668	40.00	ppm	0.00
121) Acenaphthene-d10A	7.27	164	1817820	40.00	ppm	0.00
132) Phenanthrene-d10A	9.21	188	2775738	40.00	ppm	0.00
147) Chrysene-d12A	14.53	240	2296061	40.00	ppm	-0.02
155) Perylene-d12A	17.58	264	1979067	40.00	ppm	-0.01
159) 1,4-Dichlorobenzene-d4b	4.88	152	857846	40.00	ppm	0.00
161) Naphthalene-d8b	5.80	136	3576668	40.00	ppm	0.00
163) Acenaphthene-d10b	7.27	164	1817820	40.00	ppm	0.00
165) Phenanthrene-d10b	9.21	188	2775738	40.00	ppm	0.00
167) Chrysene-d12b	14.53	240	2296061	40.00	ppm	0.00
169) 1,4-Dichlorobenzene-d4c	4.88	152	857846	40.00	ppm	0.00
171) Naphthalene-d8c	5.80	136	3576668	40.00	ppm	0.00
176) Chrysene-d12c	14.53	240	2296061	40.00	ppm	-0.02
178) Naphthalene-d8a	5.80	136	3576668	40.00	ppm	0.15
180) Chrysene-d12B	14.53	240	2296061	40.00	ppm	0.22

System Monitoring Compounds

5) 2-Fluorophenol	0.00	112	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
8) Phenol-d5	0.00	99	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
25) Nitrobenzene-d5	0.00	82	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
51) 2-Fluorobiphenyl	0.00	172	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
73) 2,4,6-Tribromophenol	0.00	330	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
85) Terphenyl-d14	0.00	244	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			

Target Compounds

						Qvalue
2) 1,4-Dioxane	2.49	88	587733	44.25	ppm	97
6) Indene	5.07	116	2402169	47.31	ppm	99
7) Cumene	4.29	105	3028952	44.41	ppm	100
13) Decane	4.76	43	1199734	43.79	ppm	97
18) Acetophenone	5.17	105	1787382	46.56	ppm	92
27) Quinoline	6.05	129	2584470	37.39	ppm	97
41) Caprolactam	6.09	55	501453	36.96	ppm	97
45) 1-Methylnaphthalene	6.41	141	2097104	36.99	ppm	99
46) Dimethylnaphthalene	6.86	156	2148084	37.40	ppm	100
48) Hexachlorocyclopentadiene	6.46	237	630910	51.15	ppm	99
53) Biphenyl	6.72	154	2917712	43.26	ppm	100
82) Octadecane	9.10	57	1516617	46.58	ppm	100

(#) = qualifier out of range (m) = manual integration
F156072.D MF6563.M Thu Apr 07 09:52:51 2016 RT1

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6564\F156072.D Vial: 14
Acq On : 5 Apr 2016 5:13 am Operator: sarad
Sample : icv6563-50 Inst : MSF
Misc : op92661,ef6564,100 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 05 10:55:42 2016 Quant Results File: MF6563.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Apr 05 10:36:50 2016
Response via : Initial Calibration
DataAcq Meth : MF6563

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
100) 7,12-Dimethylbenz(a)anthra	16.84	256	1106284	46.32 ppm	100

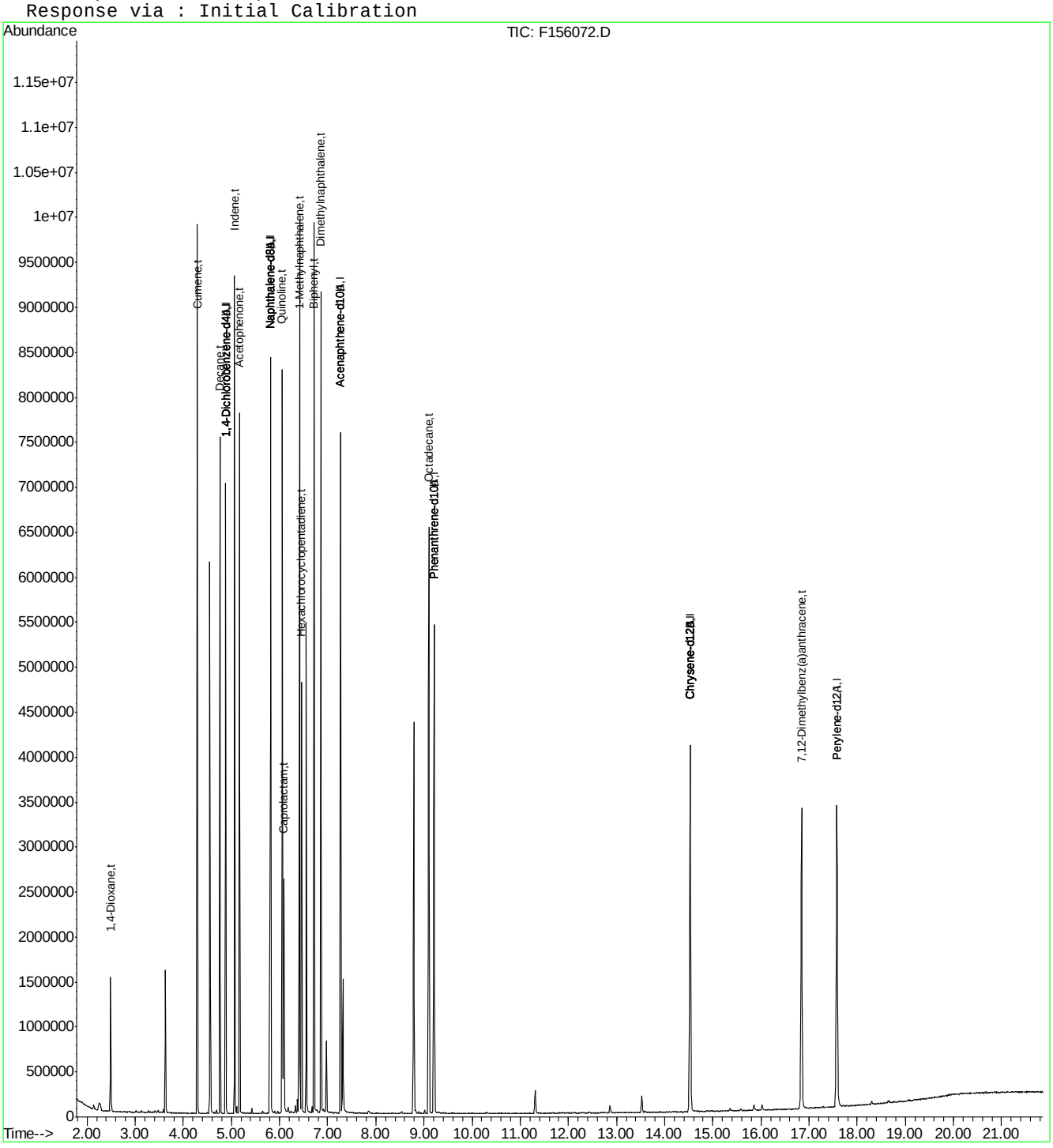
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC21347

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6564\F156072.D Vial: 14
Acq On : 5 Apr 2016 5:13 am Operator: sarad
Sample : icv6563-50 Inst : MSF
Misc : op92661,ef6564,100 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 7 9:52 2016 Quant Results File: MF6563.RES

Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Wed Apr 06 08:33:31 2016
Response via : Initial Calibration



F156072.D MF6563.M Thu Apr 07 09:52:52 2016 RT1 Page 3

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6564\F156073.D Vial: 15
Acq On : 5 Apr 2016 5:42 am Operator: sarad
Sample : icv6564-50 Inst : MSF
Misc : op92661,ef6564,100 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 05 10:58:25 2016 Quant Results File: MF6563.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Apr 05 10:36:50 2016
Response via : Initial Calibration
DataAcq Meth : MF6563

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.88	152	909903	40.00	ppm	0.00
24) Naphthalene-d8	5.80	136	3328731	40.00	ppm	0.00
47) Acenaphthene-d10	7.27	164	1966387	40.00	ppm	0.00
69) Phenanthrene-d10	9.21	188	3138917	40.00	ppm	-0.01
83) Chrysene-d12	14.53	240	2735429	40.00	ppm	-0.02
92) Perylene-d12	17.58	264	2564354	40.00	ppm	-0.01
102) 1,4-Dichlorobenzene-d4A	4.88	152	909903	40.00	ppm	0.00
112) Naphthalene-d8A	5.80	136	3328731	40.00	ppm	0.00
121) Acenaphthene-d10A	7.27	164	1966387	40.00	ppm	0.00
132) Phenanthrene-d10A	9.21	188	3138917	40.00	ppm	-0.01
147) Chrysene-d12A	14.53	240	2735429	40.00	ppm	-0.02
155) Perylene-d12A	17.58	264	2564354	40.00	ppm	-0.01
159) 1,4-Dichlorobenzene-d4b	4.88	152	909903	40.00	ppm	0.00
161) Naphthalene-d8b	5.80	136	3328731	40.00	ppm	0.00
163) Acenaphthene-d10b	7.27	164	1966387	40.00	ppm	0.00
165) Phenanthrene-d10b	9.21	188	3138917	40.00	ppm	0.00
167) Chrysene-d12b	14.53	240	2735429	40.00	ppm	0.00
169) 1,4-Dichlorobenzene-d4c	4.88	152	909903	40.00	ppm	0.00
171) Naphthalene-d8c	5.80	136	3328731	40.00	ppm	0.00
176) Chrysene-d12c	14.53	240	2735429	40.00	ppm	-0.02
178) Naphthalene-d8a	5.80	136	3328731	40.00	ppm	0.15
180) Chrysene-d12B	14.53	240	2735429	40.00	ppm	0.22

System Monitoring Compounds

5) 2-Fluorophenol	0.00	112	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
8) Phenol-d5	0.00	99	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
25) Nitrobenzene-d5	0.00	82	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
51) 2-Fluorobiphenyl	0.00	172	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
73) 2,4,6-Tribromophenol	0.00	330	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
85) Terphenyl-d14	0.00	244	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			

Target Compounds

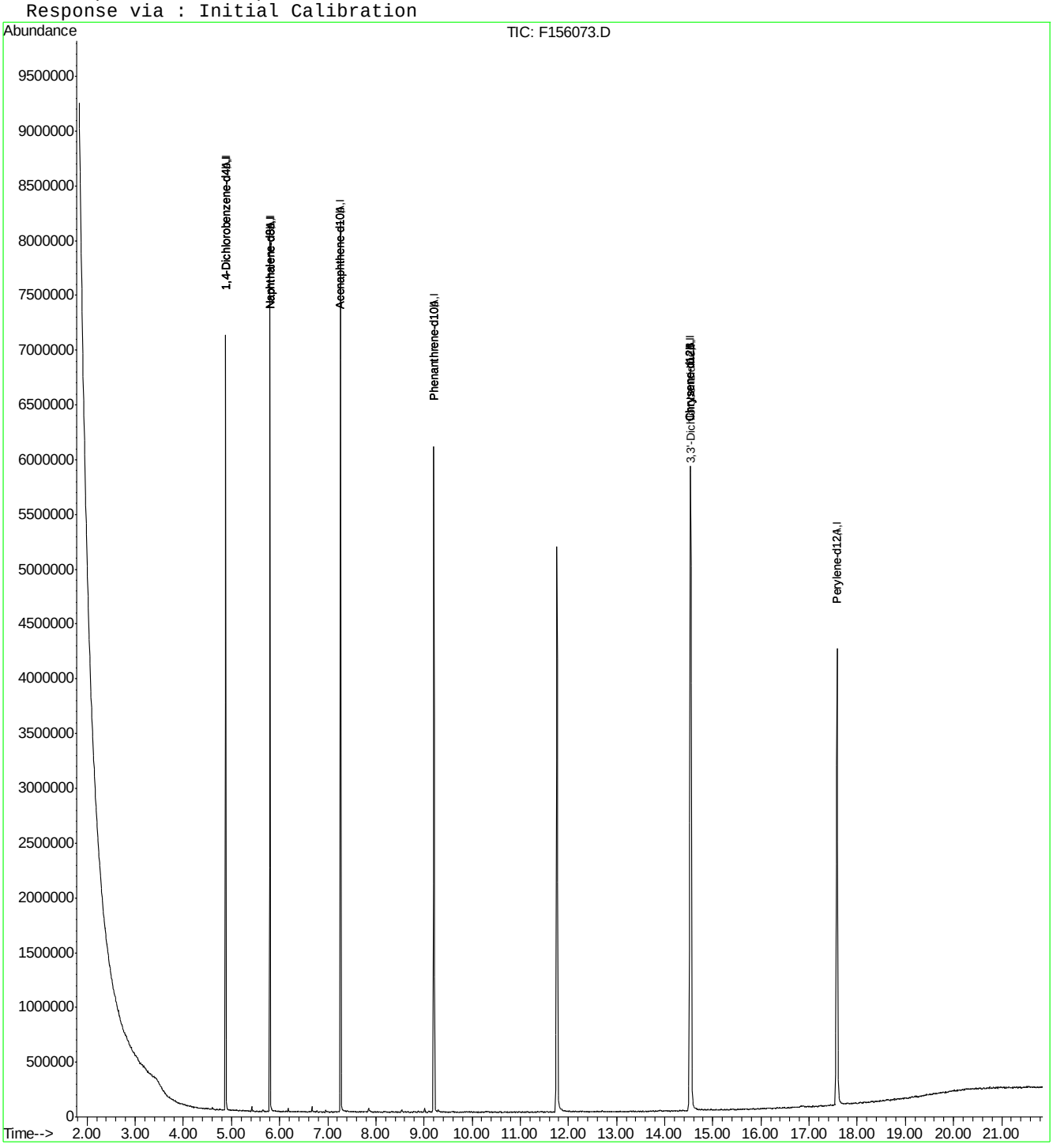
						Qvalue
89) 3,3'-Dichlorobenzidine	14.55	252	1355321	46.96	ppm	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed
F156073.D MF6563.M Thu Apr 07 09:53:52 2016 RT1

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6564\F156073.D Vial: 15
Acq On : 5 Apr 2016 5:42 am Operator: sarad
Sample : icv6564-50 Inst : MSF
Misc : op92661,ef6564,100 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 7 9:53 2016 Quant Results File: MF6563.RES

Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Wed Apr 06 08:33:31 2016
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6564\F156073A.D Vial: 15
Acq On : 5 Apr 2016 5:42 am Operator: sarad
Sample : icv6564-50 Inst : MSF
Misc : op92661,ef6564,100 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 05 10:58:25 2016 Quant Results File: MF6563.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Apr 05 10:36:50 2016
Response via : Initial Calibration
DataAcq Meth : MF6563

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.88	152	909903	40.00	ppm	0.00
24) Naphthalene-d8	5.80	136	3328731	40.00	ppm	0.00
47) Acenaphthene-d10	7.27	164	1966387	40.00	ppm	0.00
69) Phenanthrene-d10	9.21	188	3138917	40.00	ppm	-0.01
83) Chrysene-d12	14.53	240	2735429	40.00	ppm	-0.02
92) Perylene-d12	17.58	264	2564354	40.00	ppm	-0.01
102) 1,4-Dichlorobenzene-d4A	4.88	152	909903	40.00	ppm	0.00
112) Naphthalene-d8A	5.80	136	3328731	40.00	ppm	0.00
121) Acenaphthene-d10A	7.27	164	1966387	40.00	ppm	0.00
132) Phenanthrene-d10A	9.21	188	3138917	40.00	ppm	-0.01
147) Chrysene-d12A	14.53	240	2735429	40.00	ppm	-0.02
155) Perylene-d12A	17.58	264	2564354	40.00	ppm	-0.01
159) 1,4-Dichlorobenzene-d4b	4.88	152	909903	40.00	ppm	0.00
161) Naphthalene-d8b	5.80	136	3328731	40.00	ppm	0.00
163) Acenaphthene-d10b	7.27	164	1966387	40.00	ppm	0.00
165) Phenanthrene-d10b	9.21	188	3138917	40.00	ppm	0.00
167) Chrysene-d12b	14.53	240	2735429	40.00	ppm	0.00
169) 1,4-Dichlorobenzene-d4c	4.88	152	909903	40.00	ppm	0.00
171) Naphthalene-d8c	5.80	136	3328731	40.00	ppm	0.00
176) Chrysene-d12c	14.53	240	2735429	40.00	ppm	-0.02
178) Naphthalene-d8a	5.80	136	3328731	40.00	ppm	0.15
180) Chrysene-d12B	14.53	240	2735429	40.00	ppm	0.22

System Monitoring Compounds

5) 2-Fluorophenol	0.00	112	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
8) Phenol-d5	0.00	99	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
25) Nitrobenzene-d5	0.00	82	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
51) 2-Fluorobiphenyl	0.00	172	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
73) 2,4,6-Tribromophenol	0.00	330	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
85) Terphenyl-d14	0.00	244	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			

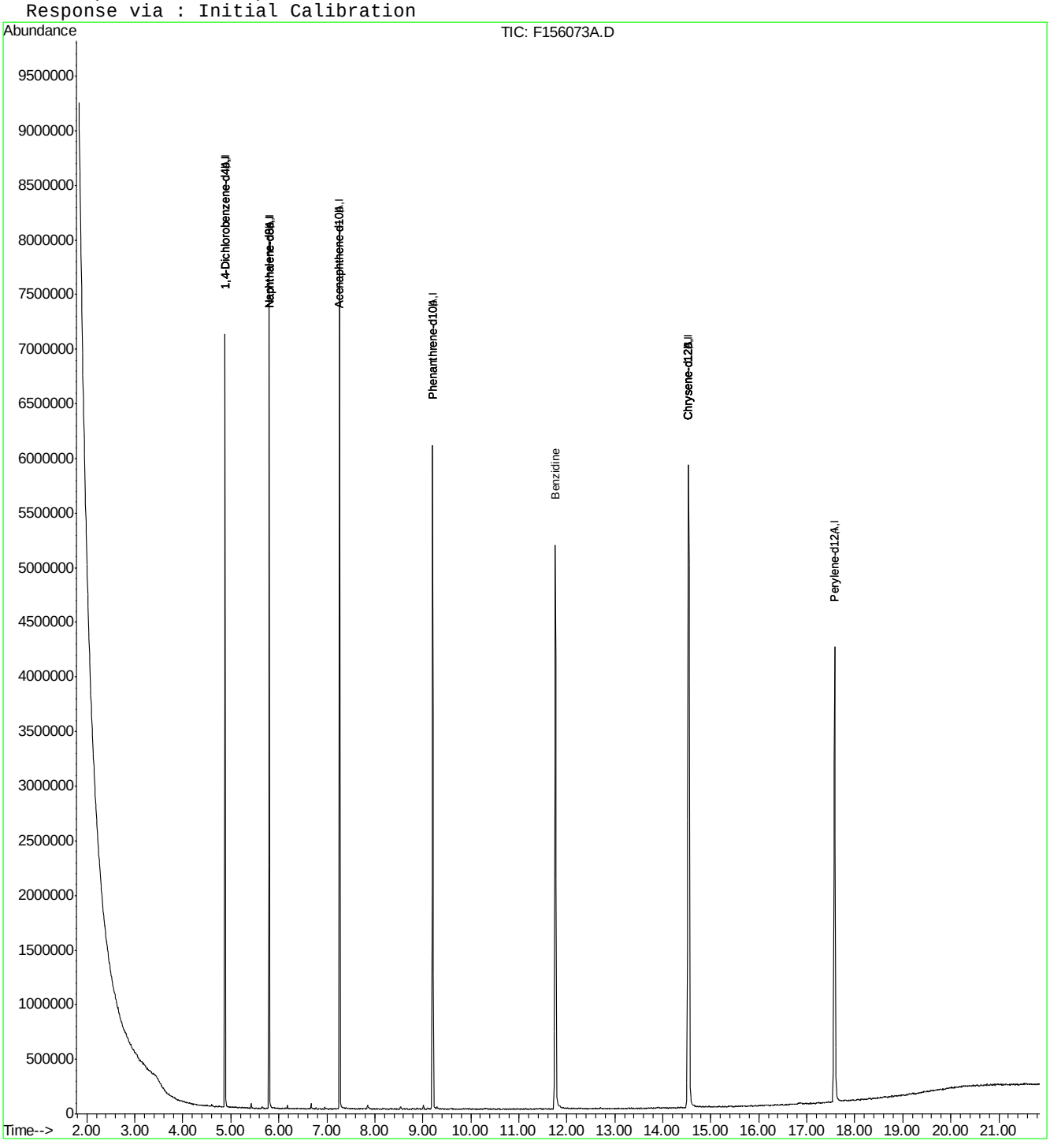
Target Compounds						Qvalue
168) Benzidine	11.76	184	3118781	65.60	ppm	99

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

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6564\F156073A.D Vial: 15
Acq On : 5 Apr 2016 5:42 am Operator: sarad
Sample : icv6564-50 Inst : MSF
Misc : op92661,ef6564,100 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 7 9:53 2016 Quant Results File: MF6563.RES

Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Wed Apr 06 08:33:31 2016
Response via : Initial Calibration



F156073A.D MF6563.M Thu Apr 07 09:54:03 2016 RT1 Page 2

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6565\F156078.D Vial: 2
Acq On : 5 Apr 2016 12:56 pm Operator: linseyk
Sample : icv6463-50 Inst : MSF
Misc : op92661,ef6565 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 05 13:22:59 2016 Quant Results File: MF6563.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Apr 05 10:23:02 2016
Response via : Initial Calibration
DataAcq Meth : MF6563

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.88	152	744908	40.00	ppm	0.00
24) Naphthalene-d8	5.80	136	2825032	40.00	ppm	0.00
47) Acenaphthene-d10	7.27	164	1637445	40.00	ppm	0.00
69) Phenanthrene-d10	9.22	188	2583382	40.00	ppm	0.00
83) Chrysene-d12	14.53	240	2214479	40.00	ppm	-0.02
92) Perylene-d12	17.60	264	2047934	40.00	ppm	0.00
102) 1,4-Dichlorobenzene-d4A	4.88	152	744908	40.00	ppm	0.00
112) Naphthalene-d8A	5.80	136	2825032	40.00	ppm	0.00
121) Acenaphthene-d10A	7.27	164	1637445	40.00	ppm	0.00
132) Phenanthrene-d10A	9.22	188	2583382	40.00	ppm	0.00
147) Chrysene-d12A	14.53	240	2214479	40.00	ppm	-0.02
155) Perylene-d12A	17.60	264	2047934	40.00	ppm	0.00
159) 1,4-Dichlorobenzene-d4b	4.88	152	744908	40.00	ppm	0.00
161) Naphthalene-d8b	5.80	136	2825032	40.00	ppm	0.00
163) Acenaphthene-d10b	7.27	164	1637445	40.00	ppm	0.00
165) Phenanthrene-d10b	9.22	188	2583382	40.00	ppm	0.00
167) Chrysene-d12b	14.53	240	2214479	40.00	ppm	0.00
169) 1,4-Dichlorobenzene-d4c	4.88	152	744908	40.00	ppm	0.00
171) Naphthalene-d8c	5.80	136	2825032	40.00	ppm	0.00
176) Chrysene-d12c	14.53	240	2214479	40.00	ppm	-0.02
178) Naphthalene-d8a	5.80	136	2825032	40.00	ppm	0.15
180) Chrysene-d12B	14.53	240	2214479	40.00	ppm	0.22

System Monitoring Compounds

5) 2-Fluorophenol	0.00	112	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
8) Phenol-d5	0.00	99	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
25) Nitrobenzene-d5	0.00	82	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
51) 2-Fluorobiphenyl	0.00	172	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
73) 2,4,6-Tribromophenol	0.00	330	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
85) Terphenyl-d14	0.00	244	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			

Target Compounds

						Qvalue
9) Phenol	4.61	94	1545370	45.57	ppm	91
12) 2-Chlorophenol	4.72	128	1214008	43.90	ppm	96
19) 2-Methylphenol	5.05	108	1105593	46.68	ppm	97
21) 3&4-Methylphenol	5.16	108	1181047	48.62	ppm	97
29) 2-Nitrophenol	5.52	139	634753	44.28	ppm	99
30) 2,4-Dimethylphenol	5.55	107	1196251	52.98	ppm	99
31) Benzoic acid	5.62	105	973141	51.55	ppm	96
33) 2,4-Dichlorophenol	5.70	162	974161	43.20	ppm	98
34) 2,6-Dichlorophenol	5.86	162	929043	42.90	ppm	96
43) 4-Chloro-3-methylphenol	6.20	107	1005386	45.45	ppm	98
49) 2,4,6-Trichlorophenol	6.56	196	638468	45.96	ppm	99
50) 2,4,5-Trichlorophenol	6.58	196	644377	42.12	ppm	96

(#) = qualifier out of range (m) = manual integration
F156078.D MF6563.M Tue Apr 05 13:25:23 2016 RT1

SGS ACCUTEST JC21347

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6565\F156078.D Vial: 2
Acq On : 5 Apr 2016 12:56 pm Operator: linseyk
Sample : icv6463-50 Inst : MSF
Misc : op92661,ef6565 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 05 13:22:59 2016 Quant Results File: MF6563.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Apr 05 10:23:02 2016
Response via : Initial Calibration
DataAcq Meth : MF6563

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
60)	2,4-Dinitrophenol	7.32	184	259017	40.16	ppm	80
61)	4-Nitrophenol	7.37	109	358683	53.29	ppm	88
64)	2,3,4,6-Tetrachlorophenol	7.62	232	500645	43.40	ppm	98
70)	4,6-Dinitro-2-methylphenol	7.94	198	378222	46.20	ppm	93
76)	Pentachlorophenol	8.91	266	394531	50.38	ppm	99

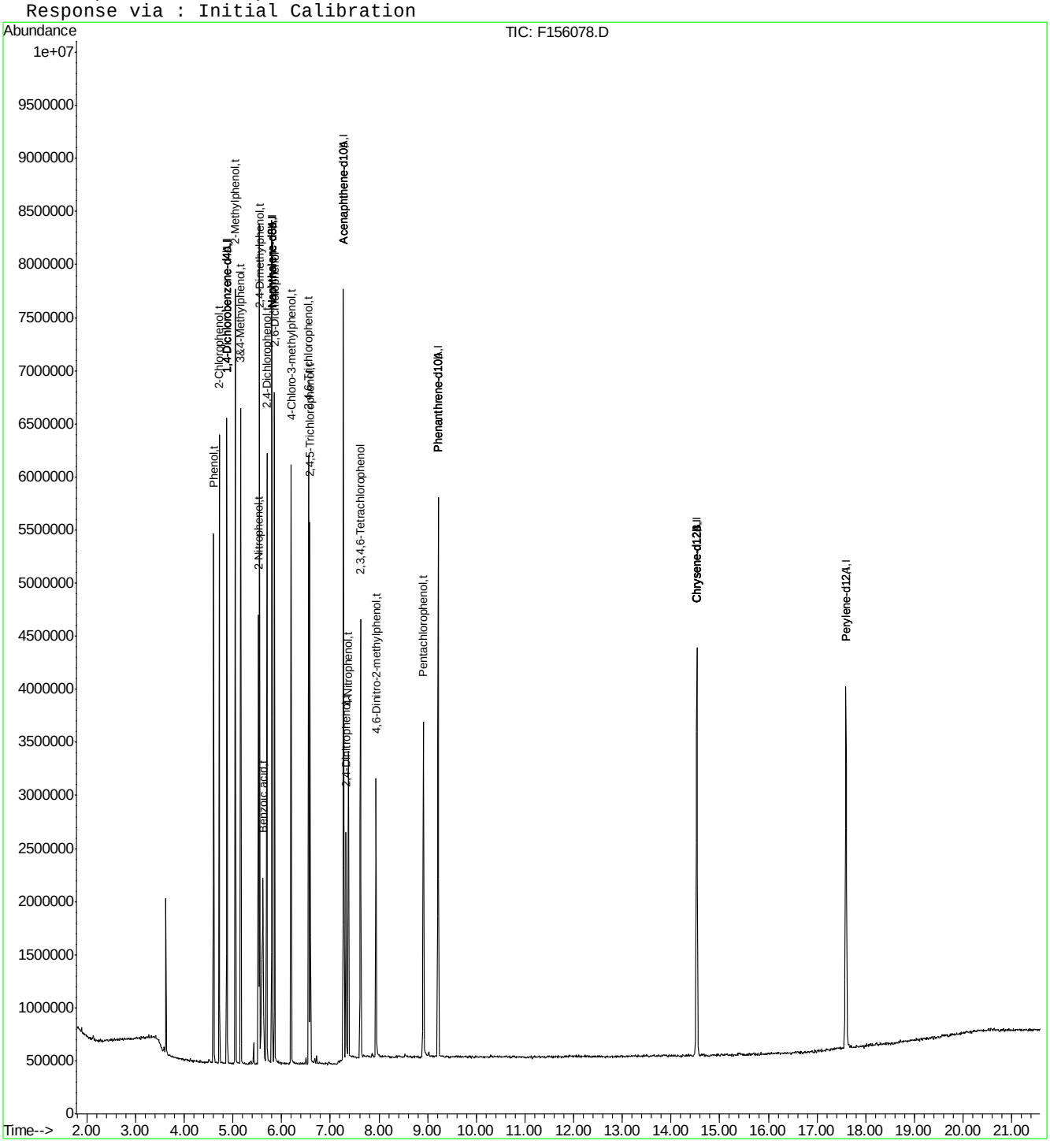
(#) = qualifier out of range (m) = manual integration (+) = signals summed
F156078.D MF6563.M Tue Apr 05 13:25:23 2016 RT1

SGS ACCUTEST JC21347

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6565\F156078.D Vial: 2
Acq On : 5 Apr 2016 12:56 pm Operator: linseyk
Sample : icv6463-50 Inst : MSF
Misc : op92661,ef6565 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 5 13:25 2016 Quant Results File: MF6563.RES

Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Apr 05 10:23:02 2016
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6567\F156097.D Vial: 10
Acq On : 5 Apr 2016 10:16 pm Operator: sarad
Sample : icv6564-50 Inst : MSF
Misc : op92661,ef6567 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 08 16:44:02 2016 Quant Results File: MF6563AP9.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6563AP9.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Apr 08 16:43:38 2016
Response via : Initial Calibration
DataAcq Meth : MF6563

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.87	152	549264	40.00	ppm	0.00
24) Naphthalene-d8	5.80	136	2140076	40.00	ppm	0.00
47) Acenaphthene-d10	7.27	164	1242814	40.00	ppm	0.00
69) Phenanthrene-d10	9.21	188	2015567	40.00	ppm	0.00
83) Chrysene-d12	14.52	240	1762466	40.00	ppm	0.00
92) Perylene-d12	17.58	264	1617527	40.00	ppm	-0.01
102) 1,4-Dichlorobenzene-d4A	4.87	152	549264	40.00	ppm	0.00
112) Naphthalene-d8A	5.80	136	2140076	40.00	ppm	0.00
121) Acenaphthene-d10A	7.27	164	1242814	40.00	ppm	0.00
132) Phenanthrene-d10A	9.21	188	2015567	40.00	ppm	0.00
147) Chrysene-d12A	14.52	240	1762466	40.00	ppm	0.00
155) Perylene-d12A	17.58	264	1617527	40.00	ppm	-0.01
159) 1,4-Dichlorobenzene-d4b	4.87	152	549264	40.00	ppm	0.00
161) Naphthalene-d8b	5.80	136	2140076	40.00	ppm	0.00
163) Acenaphthene-d10b	7.27	164	1242814	40.00	ppm	0.00
165) Phenanthrene-d10b	9.21	188	2015567	40.00	ppm	0.00
167) Chrysene-d12b	14.52	240	1762466	40.00	ppm	0.00
169) 1,4-Dichlorobenzene-d4c	4.87	152	549264	40.00	ppm	0.00
171) Naphthalene-d8c	5.80	136	2140076	40.00	ppm	0.00
176) Chrysene-d12c	14.52	240	1762466	40.00	ppm	0.00
178) Naphthalene-d8a	5.80	136	2140076	40.00	ppm	0.00
180) Chrysene-d12B	14.52	240	1762466	40.00	ppm	0.02

System Monitoring Compounds

5) 2-Fluorophenol	0.00	112	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
8) Phenol-d5	0.00	99	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
25) Nitrobenzene-d5	0.00	82	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
51) 2-Fluorobiphenyl	0.00	172	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
73) 2,4,6-Tribromophenol	0.00	330	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
85) Terphenyl-d14	0.00	244	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			

Target Compounds						Qvalue
162) Hydroquinone	6.07	110	986234	56.47	ppm	92

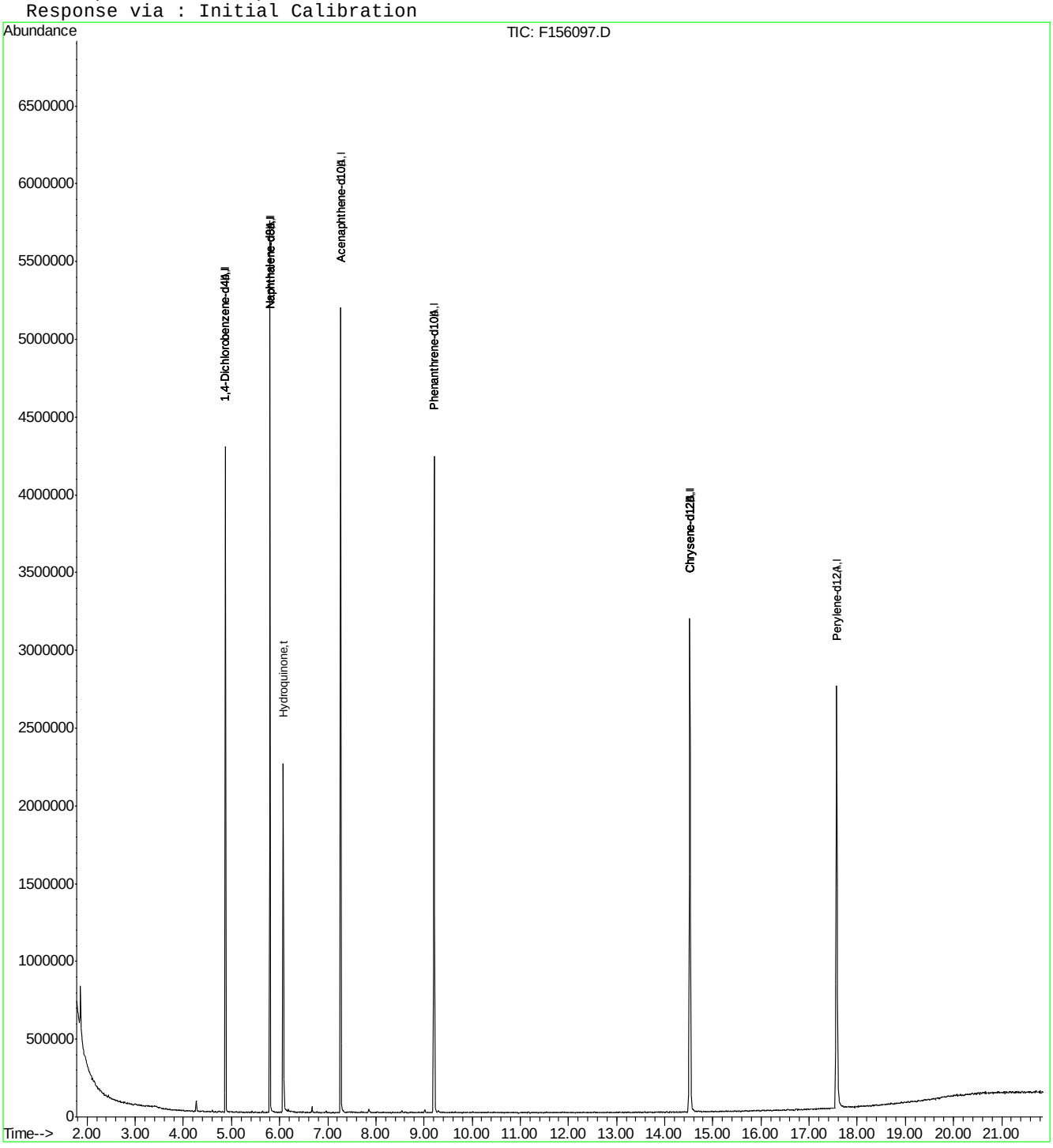
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC21347

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6567\F156097.D Vial: 10
Acq On : 5 Apr 2016 10:16 pm Operator: sarad
Sample : icv6564-50 Inst : MSF
Misc : op92661,ef6567 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 8 16:45 2016 Quant Results File: MF6563AP9.RES

Method : C:\MSDCHEM\1\METHODS\MF6563AP9.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Apr 08 17:01:57 2016
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6637\F157713.D Vial: 2
Acq On : 2 Jun 2016 9:51 pm Operator: juliusj
Sample : cc6563-50 Inst : MSF
Misc : op93756,ef6637 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 02 22:12:58 2016 Quant Results File: MF6563.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Thu Jun 02 12:50:20 2016
Response via : Initial Calibration
DataAcq Meth : MF6563

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.55	152	461583	40.00	ppm	-0.01
24) Naphthalene-d8	5.48	136	1889831	40.00	ppm	-0.01
47) Acenaphthene-d10	6.84	164	1103192	40.00	ppm	-0.02
69) Phenanthrene-d10	8.64	188	1767205	40.00	ppm	-0.03
83) Chrysene-d12	13.82	240	1629180	40.00	ppm	-0.03
92) Perylene-d12	16.84	264	1502505	40.00	ppm	-0.04
102) 1,4-Dichlorobenzene-d4b	4.55	152	461583	40.00	ppm	-0.01
104) Naphthalene-d8b	5.48	136	1889831	40.00	ppm	-0.01
106) Acenaphthene-d10b	6.84	164	1103192	40.00	ppm	-0.02
108) Phenanthrene-d10b	8.64	188	1767205	40.00	ppm	-0.03
110) Chrysene-d12b	13.82	240	1629059	40.00	ppm	-0.03

System Monitoring Compounds						
5) 2-Fluorophenol	3.57	112	805309	49.61	ppm	-0.04
Spiked Amount 50.000			Recovery = 99.22%			
8) Phenol-d5	4.31	99	1081940	54.81	ppm	-0.01
Spiked Amount 50.000			Recovery = 109.62%			
25) Nitrobenzene-d5	4.96	82	1061487	60.15	ppm	-0.02
Spiked Amount 50.000			Recovery = 120.30%			
51) 2-Fluorobiphenyl	6.26	172	1678482	47.67	ppm	0.00
Spiked Amount 50.000			Recovery = 95.34%			
73) 2,4,6-Tribromophenol	7.70	330	218137	60.49	ppm	-0.02
Spiked Amount 50.000			Recovery = 120.98%			
85) Terphenyl-d14	11.63	244	1625781	49.14	ppm	-0.04
Spiked Amount 50.000			Recovery = 98.28%			

Target Compounds							Qvalue
2) 1,4-Dioxane	2.08	88	347617	48.63	ppm		83
3) Pyridine	2.42	79	856149	50.85	ppm		93
4) N-Nitrosodimethylamine	2.38	42	389081	64.22	ppm		97
6) Indene	4.74	116	1491192	54.59	ppm		99
7) Cumene	3.95	105	2099572	57.22	ppm		94
9) Phenol	4.32	94	1222847	58.19	ppm	#	63
10) Aniline	4.32	93	952502	41.42	ppm	#	59
11) bis(2-Chloroethyl)ether	4.37	93	821102	54.31	ppm		98
12) 2-Chlorophenol	4.40	128	849135	49.55	ppm		91
13) Decane	4.43	43	688052	46.67	ppm		89
14) 1,3-Dichlorobenzene	4.51	146	906507	47.70	ppm		100
15) 1,4-Dichlorobenzene	4.56	146	918391	48.43	ppm		99
16) Benzyl alcohol	4.66	108	574238	52.55	ppm		97
17) 1,2-Dichlorobenzene	4.68	146	899029	50.43	ppm		97
18) Acetophenone	4.85	105	1266518	61.31	ppm		97
19) 2-Methylphenol	4.76	108	811735	55.30	ppm		83
20) 2,2'-oxybis(1-Chloropropan	4.76	121	271267	49.78	ppm	#	32
21) 3&4-Methylphenol	4.87	108	894430	59.42	ppm		98
22) n-Nitroso-di-n-propylamine	4.86	70	736154	66.01	ppm		95
23) Hexachloroethane	4.92	201	281088	47.86	ppm		96
26) Nitrobenzene	4.97	77	1089908	58.97	ppm		84
27) Quinoline	5.74	129	1693072	46.36	ppm		98
28) Isophorone	5.15	82	1752967	55.53	ppm		97

(#) = qualifier out of range (m) = manual integration

SGS ACCUTEST JC21347

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6637\F157713.D Vial: 2
Acq On : 2 Jun 2016 9:51 pm Operator: juliusj
Sample : cc6563-50 Inst : MSF
Misc : op93756,ef6637 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 02 22:12:58 2016 Quant Results File: MF6563.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Thu Jun 02 12:50:20 2016
Response via : Initial Calibration
DataAcq Meth : MF6563

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
29) 2-Nitrophenol	5.20	139	481265	50.19	ppm	80
30) 2,4-Dimethylphenol	5.25	107	837134	55.42	ppm	94
31) Benzoic acid	5.36	105	721503	57.13	ppm	88
32) bis(2-Chloroethoxy)methane	5.31	93	998642	50.19	ppm	98
33) 2,4-Dichlorophenol	5.39	162	667764	44.27	ppm	96
34) 2,6-Dichlorophenol	5.54	162	654806	45.20	ppm	96
35) 1,3,5-Trichlorobenzene	5.21	180	725899	45.71	ppm	100
36) 1,2,4-Trichlorobenzene	5.43	180	691020	44.30	ppm	96
37) 1,2,3-Trichlorobenzene	5.59	180	685348	44.54	ppm	99
38) Naphthalene	5.49	128	2616846	50.71	ppm	98
39) 4-Chloroaniline	5.54	127	928153	43.56	ppm	95
40) 2,3-Dichloroaniline	6.20	161	812295	46.23	ppm	95
41) Caprolactam	5.81	55	331355	46.22	ppm	94
42) Hexachlorobutadiene	5.58	225	357165	48.37	ppm	94
43) 4-Chloro-3-methylphenol	5.89	107	789146	53.33	ppm	98
44) 2-Methylnaphthalene	5.98	141	1394106	47.90	ppm	97
45) 1-Methylnaphthalene	6.06	141	1439427	48.05	ppm	98
46) Dimethylnaphthalene	6.47	156	1463941	48.24	ppm	98
48) Hexachlorocyclopentadiene	6.10	237	797064	106.48	ppm	97
49) 2,4,6-Trichlorophenol	6.20	196	450641	48.14	ppm	97
50) 2,4,5-Trichlorophenol	6.24	196	495972	48.12	ppm	96
52) 2-Chloronaphthalene	6.36	162	1514164	47.50	ppm	95
53) Biphenyl	6.34	154	1983315	48.45	ppm	99
54) 2-Nitroaniline	6.45	65	606103	67.09	ppm	91
55) Dimethylphthalate	6.60	163	1760688	49.36	ppm	99
56) Acenaphthylene	6.72	152	2521503	48.80	ppm	98
57) 2,6-Dinitrotoluene	6.66	165	401771	52.11	ppm	100
58) 3-Nitroaniline	6.82	138	446625	46.27	ppm	98
59) Acenaphthene	6.88	153	1603293	49.40	ppm	94
60) 2,4-Dinitrophenol	6.92	184	454653	100.18	ppm	92
61) 4-Nitrophenol	7.00	109	312603	68.94	ppm	94
62) Dibenzofuran	7.05	168	2122997	47.93	ppm	99
63) 2,4-Dinitrotoluene	7.04	165	564282	54.00	ppm	91
64) 2,3,4,6-Tetrachlorophenol	7.18	232	368142	47.37	ppm	96
65) Diethylphthalate	7.29	149	1799843	51.05	ppm	99
66) Fluorene	7.41	166	1772972	52.02	ppm	99
67) 4-Chlorophenyl-phenylether	7.41	204	774706	51.58	ppm	95
68) 4-Nitroaniline	7.45	138	449164	46.08	ppm	93
70) 4,6-Dinitro-2-methylphenol	7.49	198	315841	56.58	ppm	95
71) n-Nitrosodiphenylamine	7.55	169	1158495	45.81	ppm	98
72) 1,2-Diphenylhydrazine	7.60	77	2199406	62.92	ppm	91
74) 4-Bromophenyl-phenylether	8.01	248	408472	48.05	ppm	90
75) Hexachlorobenzene	8.09	284	426913	52.61	ppm	95
76) Pentachlorophenol	8.38	266	587845	109.97	ppm	97
77) Phenanthrene	8.68	178	2475433	48.69	ppm	97
78) Anthracene	8.76	178	2489827	48.92	ppm	98
79) Carbazole	9.03	167	2256574	47.30	ppm	98
80) Di-n-butylphthalate	9.71	149	3124943	52.44	ppm	98
81) Fluoranthene	10.76	202	2489587	49.38	ppm	99

(#) = qualifier out of range (m) = manual integration

SGS ACCUTEST JC21347

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6637\F157713.D Vial: 2
Acq On : 2 Jun 2016 9:51 pm Operator: juliusj
Sample : cc6563-50 Inst : MSF
Misc : op93756,ef6637 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 02 22:12:58 2016 Quant Results File: MF6563.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Thu Jun 02 12:50:20 2016
Response via : Initial Calibration
DataAcq Meth : MF6563

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
82)	Octadecane	8.55	57	1081518	52.28	ppm	93
84)	Pyrene	11.19	202	2592190	44.86	ppm	100
86)	Butylbenzylphthalate	12.80	149	1374465	48.43	ppm	84
88)	Benzo[a]anthracene	13.79	228	2288503	46.38	ppm	99
89)	3,3'-Dichlorobenzidine	13.85	252	881051	51.25	ppm	99
90)	Chrysene	13.87	228	2272807	46.33	ppm	98
91)	bis(2-Ethylhexyl)phthalate	14.19	149	1932306	49.13	ppm	96
93)	Di-n-octylphthalate	15.64	149	3380378	51.35	ppm	98
94)	Benzo[b]fluoranthene	16.10	252	2379430	51.24	ppm	98
95)	Benzo[k]fluoranthene	16.16	252	2228224	49.03	ppm	97
96)	Benzo[a]pyrene	16.73	252	2075357	48.83	ppm	98
97)	Indeno[1,2,3-cd]pyrene	18.79	276	2060688	52.54	ppm	94
98)	Dibenz(a,h)acridine	18.42	279	1788770	53.10	ppm	94
99)	Dibenz[a,h]anthracene	18.85	278	2043387	53.85	ppm	96
100)	7,12-Dimethylbenz(a)anthra	16.11	256	1053887	58.12	ppm	97
101)	Benzo[g,h,i]perylene	19.21	276	2164974	51.07	ppm	96

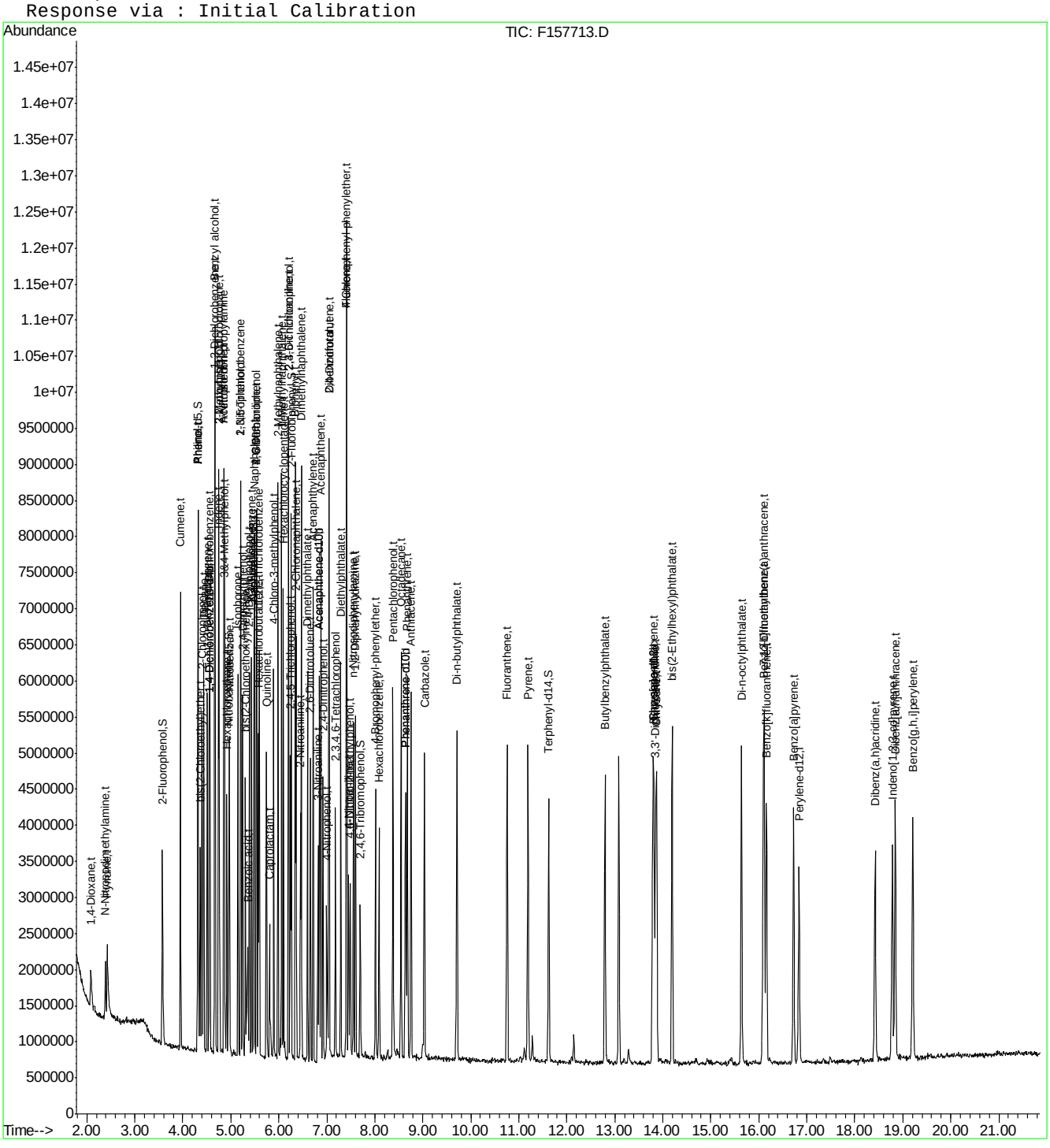
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC21347

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6637\F157713.D Vial: 2
Acq On : 2 Jun 2016 9:51 pm Operator: juliusj
Sample : cc6563-50 Inst : MSF
Misc : op93756,ef6637 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 3 12:06 2016 Quant Results File: MF6563.RES

Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Jun 03 11:39:27 2016
Response via : Initial Calibration



SGS ACCUTEST JC21347

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6637\F157714.D Vial: 3
Acq On : 2 Jun 2016 10:19 pm Operator: juliusj
Sample : cc6564-50 Inst : MSF
Misc : op93756,ef6637 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 02 22:41:35 2016 Quant Results File: MF6563.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Thu Jun 02 12:50:20 2016
Response via : Initial Calibration
DataAcq Meth : MF6563

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.55	152	479810	40.00	ppm	-0.01
24) Naphthalene-d8	5.47	136	1955452	40.00	ppm	-0.02
47) Acenaphthene-d10	6.84	164	1065952	40.00	ppm	-0.02
69) Phenanthrene-d10	8.64	188	1749763	40.00	ppm	-0.03
83) Chrysene-d12	13.80	240	1664050	40.00	ppm	-0.04
92) Perylene-d12	16.83	264	1607349	40.00	ppm	-0.04
102) 1,4-Dichlorobenzene-d4b	4.55	152	479810	40.00	ppm	-0.01
104) Naphthalene-d8b	5.47	136	1955452	40.00	ppm	-0.02
106) Acenaphthene-d10b	6.84	164	1065952	40.00	ppm	-0.02
108) Phenanthrene-d10b	8.64	188	1749763	40.00	ppm	-0.03
110) Chrysene-d12b	13.80	240	1663875	40.00	ppm	-0.04

System Monitoring Compounds

5) 2-Fluorophenol	0.00	112	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
8) Phenol-d5	0.00	99	0d	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
25) Nitrobenzene-d5	0.00	82	0d	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
51) 2-Fluorobiphenyl	0.00	172	0d	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
73) 2,4,6-Tribromophenol	0.00	330	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
85) Terphenyl-d14	0.00	244	0d	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	

Target Compounds						Qvalue
103) Benzaldehyde	4.23	105	504594	37.34	ppm	96
105) Hydroquinone	5.79	110	836900	52.45	ppm	97
107) 1,2,4,5-Tetrachlorobenzene	6.11	216	648525	43.73	ppm	97
109) Atrazine	8.28	200	450662	53.58	ppm	97
111) Benzidine	11.11	184	1010682	34.95	ppm	97

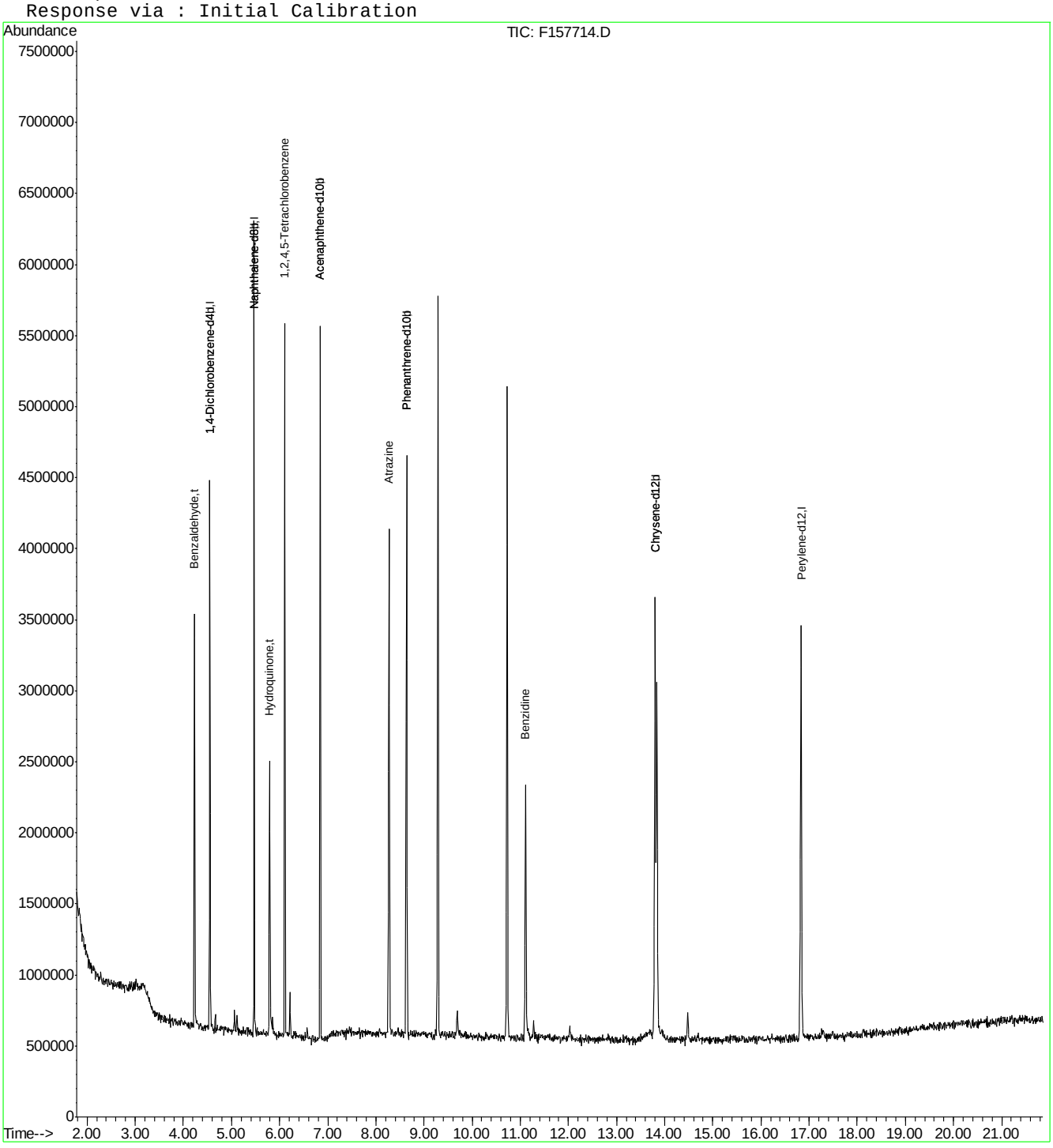
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC21347

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6637\F157714.D Vial: 3
Acq On : 2 Jun 2016 10:19 pm Operator: juliusj
Sample : cc6564-50 Inst : MSF
Misc : op93756,ef6637 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 3 12:08 2016 Quant Results File: MF6563.RES

Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Jun 03 11:39:27 2016
Response via : Initial Calibration



F157714.D MF6563.M Fri Jun 03 12:08:58 2016 RT1 Page 2

SEMI-VOLATILE by GCMS ANALYSIS LOG

SGS ACCUTEST

Batch ID: E2P2606

Print Analyst Name: ROBERT LA ROSA

Date: 6/2/16

Analyst Signature: [signature]

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
SM182741	DFTPP	50ng/µl
162800	DCM (F13 Lot)	
CM173	757D	400ng/µl

Columns: ZB-5MS 30 m x 0.25 mm x 0.25 µ

Method: 8270D/625

Initial Cal. Method: W2P2606

Injection Volume: 1µl

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: [signature] Date: 6/3/16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution	L+	IS	SU	Status (Data)	Comments
	2859742	DFTPP				1					not using	NA file - no vial 519 without
	59743	DFTPP				1					↓	689 reinject
	59744	DFTPP				1					not using	5689 reinject
	59745	DFTPP				1					ok	10:31
	59746	ICC2606-50		BNA	W	2					ok	SV161935 63C (50ng/µl)
	59747	ICC2606-2				3					ok	SV161935-63H
	59748	-1				4					ok	-63I
	59749	-100				5					ok	-63A
	59750	-80				6					ok	-63B
	59751	-25				7					ok	-63D
	59752	-10				8					ok	-63E
	59753	-5				9					ok	-63G 1:2 mm

MTX = Matrix. Designate W for water, S for soil, O for oil. L+ = Library Search. IS = Internal Standard Area. SU = Surrogate.

All strikeouts must be initialed, dated, and reason applied if not transcription error

Sample volume/weight used and final volumes refer to extraction log.

Form: OR015-07
Rev. Date: 1/19/16

SGS ACCUTEST JC21347

SEMI-VOLATILE by GCMS ANALYSIS LOG

SGS ACCUTEST

Batch ID: E2P2607

Print Analyst Name: Robert LaPosta

Date: 6/2/16

Analyst Signature: [signature]

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
SVIT827-91	DF 1,8D	5ppm
CM5732	15	100ppm
63036	DCM (63WD)	

Columns: ZB5 MS 30m x 0.25mm x 0.25µ

Method: 1/2 700D 1625

Initial Cal. Method: M2P2600

Injection Volume: 1µl

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: [signature] Date: 6/3/16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution.	L+	IS	SU	Status (Data)	Comments
	2P J9754	DFTPP				1					ok	2:58 pm
	J9755	ICC2600-50		TCLL2	W	2					ok	SVI61935-31C
	J9756	ICC2607-1				3					ok	-31I
	J9757	-100				4					ok	-31A
	J9758	-2				5					ok	-31H
	J9759	-50				6					ok	-31B
	J9760	-5				7					ok	-31G
	J9761	-25				8					ok	-31D
	J9762	-10				9					ok	-31E
	J9763	ICV2607-50		BN1		10					ok	SVI61935-17
	J9764	-50		BN2		11					ok	SVIT1827-80 NO 23DCA
	J9765	-50		ACID		12					ok	SVI61935-26
	J9766	-50		ANILINES		13					ok	-20
	J9767	-50		ABN SURR		14					ok	OP161712-136
	J9768	-50		HR		15					ok	SVIT1827-98C 7:52 pm
	J9769	-50		BD3		16					not needed	SVIT1827-38C Reassay BN1 8:14 pm

MTX = Matrix. Designate W for water, S for soil, O for oil. L+ = Library Search. IS = Internal Standard Area. SU = Surrogate.

All strikeouts must be initialed, dated, and reason applied if not transcription error

Sample volume/weight used and final volumes refer to extraction log.

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Form: OR015-07

Rev. Date: 1/19/16

7.7.2

7

SEMI-VOLATILE by GCMS ANALYSIS LOG

SGS ACCUTEST

Batch ID: E2P2614

Print Analyst Name: ROBERT LA POSTA

Analyst Signature: [signature]

Date: 6/8/16

Columns: 30-Rtx-5 30m x 0.25 mm x 0.25 µm

Method: 8270D/6-05

Initial Cal. Method: M2P2606

Injection Volume: 1µL

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
SV15827-91	DF 1,6,8	50 ppm
SV16935-64J	BMA	25 ppm
-4H	TCL2	25 ppm
CW732	IS/SD	4000 ppm
1630316	DCM (RS2a)	—

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: AMO

Date: 6/13/16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution	L+	IS	SU	Status (Data)	Comments
	2854028	DF 1,6,8				1					NG	6,8,9 reing.
	59429	DF 1,6,8				1					↓	5,6,8,9 reing.
	59430	DF 1,6,8				1						
	59431	DF 1,6,8				1						9:59 AM
	59432	CC2606-25		BMA	W	2						
	59433	CC2607-25		TCL2	W	3						
	59434	OP94471-MB1	94471	ABTCL20	S	4		+	V	/	OK	
	59435	-BS1				5			V	/	OK	
	59436	JC21389-2	94470	ABTCL20	S	6	20		V	/		
	59437	~~JC21431-1~~ JC21431-1		PAH		7	20		V	/		
	59438	JC21389-4		ABTCL20		8	10		V	/		
	59439	JC21404-3		ABTCL20		9	2	x	V	/		
	59440	JC21516-14	94472	ABTCL20	S	10	4	x	V	/	OK	not reviewed
	59441	JC21389-1	94470	ABTCL20	S	11		x	V	/		RF=5m1
	59442	-3				12			V		RR	C/D
	59443	DCM		DCM		13			V		DCM	
	59444	JC21358-14	94471	ABTCL20	S	14		+	V	/	RR/OK	C/D

MTX = Matrix . Designate W for water, S for soil, O for oil. L+ =Library Search. IS = Internal Standard Area. SU = Surrogate.

All strikeouts must be initialed, dated, and reason applied if not transcription error

Sample volume/weight used and final volumes refer to extraction log.

101

Form: OR015-07
Rev. Date: 1/19/16

SEMI-VOLATILE by GCMS ANALYSIS LOG

SGS ACCUTEST

Batch ID E2P 2614

Print Analyst Name: ROBERT LAPESTA

Date: 6/8/16

Analyst Signature:

Columns: ZB-5MS 30m X 0.25mm X 0.25µ

Method 8270D/625

Initial Cal. Method MZP 2606

Injection Volume: 1µL

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
	see pg 101	

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: AMO

Date: 6/13/16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution.	L+	IS	SU	Status (Data)	Comments
	J89445	JC21778-2A	94471	AB1620+	S	15		+	V	V	OK	
	J9446	-3A				16		+	V	V	OK	
	J9447	-4A				17		+	V	V	OK	
	J9448	JC21339-1A				18		+	V	V	OK	
	J9449	-2A				19		+	V	V	OK	
	J9450	-3A				20		+	V	V	OK	
	J9451	-4A				21		+	V	V	OK	
	J9452	OP94471-MS		AB8270		22			V	V	OK	
	J9453	-MSD				23			V	V	OK	
	J9454	JC23472		ABSL+MMW+MMW2		24			V	V	OK	
	J9455	JC21462-1A		AB1620+		25		+	V	V	OK	
	J9456	JC21462-2A				26		+	V	V	OK	
	J9457	-3A				27		+	V	V	OK	
	J9458	OP94470-MS	94430	AB1270	S	28			V	V	OK	
	J9459	-MSD				29			V	V	OK	
	J9460	JC21236-4A		AB1620+		30		+	V	V	OK	
	J9461	-4A				31		+	V	V	OK	

MTX = Matrix . Designate W for water, S for soil, O for oil. L+ =Library Search. IS = Internal Standard Area. SU = Surrogate.

All strikeouts must be initialed, dated, and reason applied if not transcription error

Sample volume/weight used and final volumes refer to extraction log.

103

Form: OR015-07
Rev. Date: 1/19/16

7.7.3

7

SEMI-VOLATILE by GCMS ANALYSIS LOG

SGS ACCUTEST

Batch ID E2P2614

Print Analyst Name: Robert Larson

Analyst Signature: RL

Date: 6/16/16

Columns: ZB-5ms+30m X 0.25mm X 0.25

Method 8270D/625

Initial Cal. Method M2P2606

Injection Volume: 1µL

Standard Data		
Lot #	Description	Conc.

Standard Data		
Lot #	Description	Conc.
	SEL PB/VA	

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: AMQ

Date: 6/13/16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution.	L+	IS	SU	Status (Data)	Comments
	59962	JC21356-1	94471	AD7LL20+	S	32		+	3.5	V	Ok	MRL x 4 for 75.
	59963	-2				33		+	V	V	ok	RRC10
	59964	JC21236-35	94470	A37LL20-PAH	S	34		+	V	V	ok	Vf=5ml 9.5gm

MTX = Matrix . Designate W for water, S for soil, O for oil. L+ =Library Search. IS = Internal Standard Area. SU = Surrogate.

All strikeouts must be initialed, dated, and reason applied if not transcription error

Sample volume/weight used and final volumes refer to extraction log.

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Form: OR015-07
Rev. Date: 1/19/16

SEMI-VOLATILE by GCMS ANALYSIS LOG

SGS ACCUTEST

Batch ID E3M 2887

Print Analyst Name: LINSELK

Analyst Signature: LK

Date: 5/17/16

Columns: ZB-5ms 30m x .25mm x .25um

Method 8270 D/625

Initial Cal. Method M3M2887.im

Injection Volume: 1ul

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
SV151827-91	DFTPP	50ppm
SV161935-29	SIM Internal	40ppm
162941 BK5716	DCMetfisher	—

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: AMO Date: 5/18/16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution	L+	IS	SU	Status (Data)	Comments
	3M61384	DFTPP			W	1					OK	8:51AM
	61385	ICC2887-1.0			W	2					rr	wrong method.
	61386	ICC2887-1.0			W	2					rr	double injected.
	61387A	ICC2887-1.0			W	2					OK	SV161935-91A rerun A file bad injection
	61388A	ICC2887-0.5			W	3					OK	SV161935-91B
	61389A	BK5716 -0.2				4					OK	SV151827-104E rerun B file bad injection
	61390A	-0.1				5					OK	SV151827-104F
	61391A	BK5716 -0.05				6					OK	-104G
	61392A	B -0.02				7					OK	-104H rerun B file bad injection
	61393	-0.01				8					OK	SV151827-104I
	61394	-5.0				9					OK	-104A
	61395	-2.5				10					OK	-104B
	61396	ICV2887-1.0		Acids		11					RR	SV151827-97 4.0 control
	61397	-1.0		Bsm		12					OK	OP151124-73
	61398	-1.0		Bn2		13					OK	SV151829-85 7:45pm

MTX = Matrix . Designate W for water, S for soil, O for oil. L+ =Library Search. IS = Internal Standard Area. SU = Surrogate.

All strikeouts must be initialed, dated, and reason applied if not transcription error

Sample volume/weight used and final volumes refer to extraction log.

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Form: OR015-07
Rev. Date: 1/19/16

7.7.4

7

SEMI-VOLATILE by GCMS ANALYSIS LOG

SGS ACCUTEST

Batch ID E3M2888

Print Analyst Name: LINSCUK

Analyst Signature: [signature]

Date: 5/18/16

Columns: ZB-5ms @ 30m x .25mm x .25um

Method 8270D/1625

Initial Cal. Method M3M2887Bim

Injection Volume: 1ul

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
SV15182791	DFTPP	50ppm
SM16935	39 SM Internal	400ppm
1621041	DCM-Fisher	—

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: AMO

Date: 5/18/16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution.	L+	IS	SU	Status (Data)	Comments
	3M61339	DFTPP			W	1					OK	9:00 AM
	61400	ICV2887-1.0		Acids	W	2					OK	SV15182792 9:12AM

MTX = Matrix . Designate W for water, S for soil, O for oil. L+ =Library Search. IS = Internal Standard Area. SU = Surrogate.

All strikeouts must be initialed, dated, and reason applied if not transcription error

Sample volume/weight used and final volumes refer to extraction log.

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Form: OR015-07
Rev. Date: 1/19/16

SEMI-VOLATILE by GCMS ANALYSIS LOG

SGS ACCUTEST

Batch ID E3M2918

Print Analyst Name: Ashley Moyle

Date: 6/3/2016

Analyst Signature: AMO

Columns: 2135 ms 30m x 5mm x 5 µ 12

Method 8270D/625

Initial Cal. Method M3M2087sim

Injection Volume: 1µL

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
SVS162291	DFTPP	50 ppm
SV16193553-13	Sim Std.	.5 ppm
SV16193555	Sim internal	400 ppm
163036	DCM (fshel)	—

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: [signature] Date: 6/3/16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution	L+	IS	SU	Status (Data)	Comments
	3M61908	DFTPP				1					OK	7:44AM.
	61909	CC2887-.5		BASim	W	2					OK	Bnonly 29,36A
	61910	0994425mb	944251	B8270	W	3			/	/	OK	
	61911	-6512				4			/	/	OK	
	61912	JC21347-1		Nap+1,4dia		5			/	/	OK	
	61913	-3				6			/	/	OK	
	61914	0994215mb1	942151	B8270.		7			2,4 ↑	/	OK	
	61915	0994255mb	942551	B8270.		8			/	/	OK	
	61916	JC20073-3		1,4dioX		9			/	/	OK	
	61917	JC20035-5	942151	BSIMNJ +1,4dioX	W	10			2,4 ↑	/	OK	
	61918	-6				11			2,4 ↑	/	OK	
	61919	JC20020-2	942551	BSIMNJ +1,4dioX		12			/	/	OK	
	61920	-8				13			/	/	OK	
	61921	JC20752-2		BSIMNJ +1,4dioX		14			/	/	OK	2:21pm

MTX = Matrix . Designate W for water, S for soil, O for oil. L+ =Library Search. IS = Internal Standard Area. SU = Surrogate.

All strikeouts must be initialed, dated, and reason applied if not transcription error

Sample volume/weight used and final volumes refer to extraction log.

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Form: OR015-07
Rev. Date: 1/19/16

7.7.6

7

SEMI-VOLATILE by GCMS ANALYSIS LOG

SGS ACCUTEST

Batch ID: E3M2919

Print Analyst Name: Linsey K

Analyst Signature: [signature]

Date: 6/3/16

Columns: ZB-5MS @ 30m x .25mm x .25um

Method: 8270D/1625

Initial Cal. Method: M3M2887.M

Injection Volume: 1 ul

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
SV152741	DFTPP	50ppm
SM1625-57	SIMSTD	10ppm
~~55~~	SIM Internal	40ppm
1625-30	DCM-CTS(NC)	—

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: [signature] Date: 6-7-16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution.	L+	IS	SU	Status (Data)	Comments
	3M0922	DFTPP			W	1					ok	3:08pm
	61923	CC2887-10		BNasim	W	2					ok	
	61924	OP94245-MB1	94245-1	AB8270	W	3			✓	✓	ok	
	61925	-LCS12				4			✓	✓	ok	
	61926	-MS				5			✓	✓	ok	
	61927	-MSD				6			✓	✓	ok	
	61928	JC20816-9		PCP.		7			✓	✓	ok	
	61929	-10				8			✓	✓	ok	
	61930	-11				9			✓	✓	ok	
	61931	-12				10			✓	✓	ok	
	61932	-13				11			✓	✓	ok	
	61933	OP94253-MB1	94253-1	AB8270	W	12			✓	✓	ok	
	61934	-LCS12				13			✓	✓	ok	
	61935	JC20737-1		AB8270 ND 41.4ug/L		14			✓	✓	ok	
	61936	-2				15			✓	✓	ok	
	61937	-3				16			✓	✓	ok	
	61938	OP94125-MB1	94125-1	AB8270	W	17			✓	✓	ok	

MTX = Matrix. Designate W for water, S for soil, O for oil. L+ = Library Search. IS = Internal Standard Area. SU = Surrogate.

All strikeouts must be initialed, dated, and reason applied if not transcription error

Sample volume/weight used and final volumes refer to extraction log.

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Form: OR015-07
Rev. Date: 1/19/16

7.2.7

7

SEMI-VOLATILE by GCMS ANALYSIS LOG

SGS ACCUTEST

Batch ID E3M2919

Print Analyst Name: Linsey K

Analyst Signature: [signature]

Date: 6/3/16

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
	See Pg 179	

Columns: ZB-5MS 30m x .25mm x .25um

Method 8270 D/625

Initial Cal. Method M3M2885im

Injection Volume: 1 uL

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: [signature] Date: 6-7-16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution.	L+	IS	SU	Status (Data)	Comments
	3m06939	OP94125-1812	944251	AB8270	W	18			✓	✓	OK	
	06940	JC21116-5		AB8270 MS/MSD	W	19			✓	✓	OK	
	06941	-6				20			✓	✓	OK	
	06942	-7				21			✓	✓	OK	
	06943	-8				22			✓	✓	OK	
	06944	-9				23			✓	✓	OK	237AM
	06945	OP94271-1812	942711	AB8270.	W	24					1212	310AM. a/of 12/13
												AMO

MTX = Matrix . Designate W for water, S for soil, O for oil. L+ =Library Search. IS = Internal Standard Area. SU = Surrogate.

All strikeouts must be initialed, dated, and reason applied if not transcription error

Sample volume/weight used and final volumes refer to extraction log.

Form: OR015-07
Rev. Date: 1/19/16

SGS ACCUTEST JC21347

SEMI-VOLATILE by GCMS ANALYSIS LOG

SGS ACCUTEST

Batch ID E3M2930

Print Analyst Name: Julius M. Johnson

Analyst Signature: JMJ

Date: 6/10/16

Columns: ZB-5ms (+) 30m x .25mm x .25µm

Method 8270D/625

Initial Cal. Method M3M2887SIM

Injection Volume: 1µl

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
SV1518279	DFTPP	50ppm
SV1693557	SIM STD	0.5ppm
-71	SIM IS	400ppm
163036	DCM (Fisher)	—

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: JM

Date: 6-13-16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution	L+	IS	SU	Status (Data)	Comments
	3M62146	DFTPP				1					ok	8:33pm BNONLY
	62147	CC2587-0.5				2					ok	
	62148	OP94454a-MB1	94454	B8270		3					notesing	underfissing co
	62149	-BS12				4						
	62150	-MS				5						
	62151	-MSD				6						
	62152	JC21236-12		BSIMPAH		7						
	62153	-10				8						
	62154	-5				9						
	62155	OP94470a-MB1	94470	B8270		10			/	/	ok	
	62156	-BS12				11			/	/	ok	
	62157	-MS				12			/	/	ok	
	62158	-MSD				13			/	/	ok	
	62159	JC21261-2		SIM 1,4 D10X+NAP		14			/	/	ok	
	62160	-3				15			/	/	ok	
	62161	OP94471a-MB1	94471	B8270		16			/	/	ok	
	62162	-BS12				17			/	/	ok	

MTX = Matrix. Designate W for water, S for soil, O for oil. L+ =Library Search. IS = Internal Standard Area. SU = Surrogate.

All strikeouts must be initialed, dated, and reason applied if not transcription error

Sample volume/weight used and final volumes refer to extraction log.

Form: OR015-07
Rev. Date: 1/19/16

SEMI-VOLATILE by GCMS ANALYSIS LOG

SGS ACCUTEST

Batch ID E3M2930

Print Analyst Name: Julius M. Johnson

Date: 6/10/16

Analyst Signature: JMJ

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
	See Page 19	

Columns: ZB5MS 30m x .25mm x .25μm

Method 8270D/625

Initial Cal. Method M3M2987SIM

Injection Volume: 1ul

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: JM

Date: 6-13-16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution.	L+	IS	SU	Status (Data)	Comments
	62163	OP94471a-MS	94471	B8270		18			/	/	ok	
	62164	-MSD				19			/	/	ok	
	62165	JC21347-2		SIM 14Diox-NAP		20			/	/	ok	
	62166	OP94419a-MB1	94419	B8270		21			/	/	ok	
	62167	-BS12				22			/	/	ok	
	62168	JC21229-1		BSIM14Diox BSIM NAP		23			/	/	ok	8:09AM
	62169	-2		↓		24					r	Out of Clock 8:41AM

MTX = Matrix . Designate W for water, S for soil, O for oil. L+ =Library Search. IS = Internal Standard Area. SU = Surrogate.

All strikeouts must be initialed, dated, and reason applied if not transcription error

Sample volume/weight used and final volumes refer to extraction log.

Form: OR015-07
Rev. Date: 1/19/16

SGS ACCUTEST JC21347

SEMI-VOLATILE by GCMS ANALYSIS LOG

SGS ACCUTEST

Batch ID E3M2931

Print Analyst Name: Julius M. Johnson

Analyst Signature: JMJ

Date: 6/13/16

Columns: ZB5ms ⊕ 30m x .25mm x .25µm

Method 8270D/625

Initial Cal. Method M3M2931sim

Injection Volume: 1µl

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
SV1513c791	DFTPP	50ppm
SV1609357-1	SIM ISTD	40ppm
1603336	DCM (Fisher)	—

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: AMQ

Date: 6/14/16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution	L+	IS	SU	Status (Data)	Comments
	3M62181A	DFTPP				1					OK	Run as "A" file, Analyst error. 7:51pm
	62182	icc2931-1.0				2					OK	SV16193572A
	62183	ic2931-0.5				3					OK	-B
	62184	ic2931-0.2				4					OK	-60C
	62185	ic2931-0.1				5					OK	-60D
	62186	ic2931-0.05				6					OK	-60E
	62187	ic2931-0.02				7					OK	-60F
	62188	ic2931-0.01				8					OK	-60G
	62189	ic2931-5				9					OK	-60A
	62190	@ JMJ 6/13/16 icv2931-2.5				10					OK	-60B
	62191	icv2931-1.0		Acid 2nd		11					NR	SV16193553 bad
	62192	icv2931-1.0		SIM Spike		12					NR	OP16171228 bad
	62193	icv2931-1.0		BSIM							NR	OP16171210 bad 2:14pm

MTX = Matrix. Designate W for water, S for soil, O for oil. L+ = Library Search. IS = Internal Standard Area. SU = Surrogate.

All strikeouts must be initialed, dated, and reason applied if not transcription error

Sample volume/weight used and final volumes refer to extraction log.

Form: OR015-07
Rev. Date: 1/19/16

SEMI-VOLATILE by GCMS ANALYSIS LOG

SGS ACCUTEST

Batch ID E3M2932

Print Analyst Name: Linsey K

Analyst Signature: LK

Date: 6/14/16

Columns: Rxi-5Sil MS 30m x .25mm x .25um

Method 8270D/1625

Initial Cal. Method M3M2931 SIM

Injection Volume: 1uL

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
SV1082791	DFTPP	50ppm
SV1693571	SIM IRTD	400ppm
1693B6	DMF Fisher	—

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: AWO.

Date 6/14/16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution.	L+	IS	SU	Status (Data)	Comments
	3M62194	DFTPP			W	1					OK	9:32AM
	62195	ICV2931-1		Acids	W	2					~~NT~~ OK	Wrong method
	62196	ICV2931-1		Bsim	W	3						
	62197	ICV2931-1		Acids		2					~~NOT~~ OK	~~SV1693572~~ bad ↓ NT new lot
	62198	ICV2931-1		Bsim		3					OK	CP161712-120 10:30AM

MTX = Matrix. Designate W for water, S for soil, O for oil. L+ =Library Search. IS = Internal Standard Area. SU = Surrogate.

All strikeouts must be initialed, dated, and reason applied if not transcription error

Sample volume/weight used and final volumes refer to extraction log.

Form: OR015-07

Rev. Date: 1/19/16

SEMI-VOLATILE by GCMS ANALYSIS LOG

SGS ACCUTEST

Batch ID E3M2934

Print Analyst Name: Linsey K

Analyst Signature: LK

Date: 6/14/16

Columns: RXI-5Sil MS 30m x .25mm x .25um

Method 8270D/625

Initial Cal. Method M3M2931Sim

Injection Volume: 1 ul

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
SV1562791	DFTPP	50ppm
SV1605472	SIM Std.	1.0ppm
-71	SIM TSTD	4.0ppm
1603086	DCM (Fisher)	—

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: AMO

Date: 6/16/16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution	L+	IS	SU	Status (Data)	Comments
	3M62201	DFTPP			W	1					OK	12:39pm
	62202	CC2931-1.0		B100m	W	2					OK	
	62203	OP94425-MB	944251	AB82m	W	3			/	/	OK	
	62204	-MSL				4			/	/	OK	
	62205	JC21490-3	944231	BS1mMO +14dilw		5			/	/	OK	
	62206	-4				6			/	/	OK	
	62207	-8				7			/	/	OK	
	62208	JC21502-1				8			/	/	OK	
	62209	JC21479-1				9			/	/	OK	7:10pm
	62210	OP94607MB1	946071	BS270		10					not run	seq changed
	62211	JS12				11						
	62212	-MS				12						
	62213	-MSL				13						
	62214	BS1mspike				14			/	-	OK	OP1607706 ran after 3M62204
	62215	OP94576MB1	945761	AB8270		15			/	/	OK	ran After 3M62205
	62216	JC21609-1		AB1mMO +14dilw		16			/	/	OK	
	62217	-3				17			/	/	OK	

MTX = Matrix. Designate W for water, S for soil, O for oil. L+ = Library Search. IS = Internal Standard Area. SU = Surrogate.

All strikeouts must be initialed, dated, and reason applied if not transcription error

Sample volume/weight used and final volumes refer to extraction log.

Form: OR015-07
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SEMI-VOLATILE by GCMS ANALYSIS LOG

SGS ACCUTEST

Batch ID E3M2934

Print Analyst Name: Linsey/K

Analyst Signature: [signature]

Date: 6/14/16

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
	See Page 29	

Columns: Rxi-5Sil MS 30m x .25mm x .25µm

Method 8270D/625

Initial Cal. Method M3M2931SIM

Injection Volume: 1µl

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: Amo

Date: 6/16/16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution	L+	IS	SU	Status (Data)	Comments
	3m62218	JC21609-5	945761	Assimilate Fluidar	W	18			/	/	ok	run 14hr 3m62220 5:01pm

MTX = Matrix . Designate W for water, S for soil, O for oil. L+ =Library Search. IS = Internal Standard Area. SU = Surrogate.

All strikeouts must be initialed, dated, and reason applied if not transcription error

Sample volume/weight used and final volumes refer to extraction log.

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Form: OR015-07
Rev. Date: 1/19/16

SGS ACCUTEST JC21347

SEMI-VOLATILE by GCMS ANALYSIS LOG

SGS ACCUTEST

Batch ID EF6563

Print Analyst Name: Linsey

Analyst Signature: [signature]

Date: 4/4/16

Columns: ZB-5ms Plus ~~Rtx-5Silms~~ 30mx.25mmx.25um 7/14/16

Method 8270D/625

Initial Cal. Method MF6563

Injection Volume: 1ul

Standard Data

Lot #	Description	Conc.
SV151827-60A	BNA	100 ppm
-60B	↓	80
-60C		50
-60D		25
-60E		10
-60F	↓	5 ↓

Standard Data

Lot #	Description	Conc.
SV151629-10B	DFTPP	50 ppm
SV151827-60H	BNA	2 ppm
-60I	↓	1 ↓
CMS832	Internal Std.	400ppm
K2107	DCM-Fisher's	—

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: [signature]

Date: 4/6/16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution	L+	IS	SU	Status (Data)	Comments
	F151036	Condition			W	100					Condition	
	156045	Condition			W	100					↓	
	156046	condition				99						
	↓ 156048	↓				↓					Not run	sequence changed
	156049	DFTPP			W	1					NG	51↓, reinject
	156050	DFTPP			W	1					OK	
	156051	IC6563-100		BNA		2					OK	
	156052	-80				3					OK	
	156053	IC6563-50				4					OK	
	156054	IC6563-25				5					OK	
	156055	-10				6					OK	
	156056	-5				7					OK	
	156057	-2				8					OK	
	156058	-1				9					OK	

MTX = Matrix. Designate W for water, S for soil, O for oil. L+ = Library Search. IS = Internal Standard Area. SU = Surrogate.

All strikeouts must be initialed, dated, and reason applied if not transcription error

Sample volume/weight used and final volumes refer to extraction log.

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Form: OR015-07
Rev. Date: 1/19/16

7.7.12

7

SEMI-VOLATILE by GCMS ANALYSIS LOG

SGS ACCUTEST

Batch ID EF6564

Print Analyst Name: Sara Davis

Analyst Signature: SED

Date: 4/4/2016

Columns: ZB-5msplus 30m x .25mm x .25um

Method 8270 D/625

Initial Cal. Method MF6563

Injection Volume: 1 ul

Standard Data

Lot #	Description	Conc.
SV151827-73A	TCL42	100 ppm
-73B	↓	80 ↓
-73C		50
-73D		25
-73E		10
-73G	↓	5 ↓

Standard Data

Lot #	Description	Conc.
SV151829-103	DFTPP	50 ppm
SV151827-73 H	TCL42	2 ppm
-73 I	↓	1 ↓
CM5732	Internal Std	4000 ppm
162107	Dcm (Fisher)	—

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: AMO

Date: 4/6/16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution.	L+	IS	SU	Status (Data)	Comments
	F156059	DFTPP			W	1					OK	11:06 pm
	156060	TCL6564-100		TCL42	W	2					OK	
	156061	-80				3					OK	
	156062	TCL6564-50				4					OK	
	156063	TCL6564-25				5					OK	
	156064	-10				6					OK	
	156065	-5				7					OK	
	156066	-2				8					OK	
	156067	-1				9					OK	
	156068	TCV6563-50		Acids		10					rr	SV151827-79
	156069	-50		Aniline		11					OK	-78
	156070	-50		ABN sicc		12					OK	OP161712 33
	156071	-50		BN1		13					OK	SV151827-88
	156072	-50		BN2		14					OK	-80
	156073	TCV6564-50		Benzidine 3rd		15					OK	-38F
	~~156073~~											
	SD 2 4/4/16											

MTX = Matrix. Designate W for water, S for soil, O for oil. L+ = Library Search. IS = Internal Standard Area. SU = Surrogate.

All strikeouts must be initialed, dated, and reason applied if not transcription error

Sample volume/weight used and final volumes refer to extraction log.

Form: OR015-07
Rev. Date: 1/19/16

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7.7.13

7

SEMI-VOLATILE by GCMS ANALYSIS LOG

SGS ACCUTEST

Batch ID EF6565

Print Analyst Name: Linsey/K

Analyst Signature: DK

Date: 4/5/16

Columns: ~~Rtx-5SilMS~~ ZB-5ms P100 30m x 250mm x 0.25um

Method 8270D/625

Initial Cal. Method MF6563

Injection Volume: 1ul

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
SL5182405	DFTPP	50ppm
CM5732	Internal std.	40ppm
162107	DCM-Fisher	—

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: AMO

Date: 4/6/16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution	L+	IS	SU	Status (Data)	Comments
	F15E0074	DFTPP			W	1					ng	SIV reinject
	15E0075	DFTPP			W	1						SIV reinject
	15E0076	DFTPP			W	1					rating	SIV reinject
	15E0077	DFTPP			W	1					OK	12:39pm ~~Acid not~~ JK 4/5/16
	15E0078	icv6563-50		Acids	W	2					OK	

MTX = Matrix . Designate W for water, S for soil, O for oil. L+ =Library Search. IS = Internal Standard Area. SU = Surrogate.

All strikeouts must be initialed, dated, and reason applied if not transcription error

Sample volume/weight used and final volumes refer to extraction log.

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Form: OR015-07
Rev. Date: 1/19/16

7.7.14

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SEMI-VOLATILE by GCMS ANALYSIS LOG

SGS ACCUTEST

Batch ID EF6567

Print Analyst Name: Sara Davis

Date: 4/5/2016

Analyst Signature: SED

Standard Data

Lot #	Description	Conc.
SV151827-96A	AP9SL	100 ppm
-96B	↓	80 ↓
-96C		50
-96D		25
-96E		10
-96G	↓	5 ↓

Standard Data

Lot #	Description	Conc.
SV151829-108	DFTPP	50 ppm
SV151827-96H	AP9SL	2 ppm
-96I	↓	1 ↓
CM-5732	Internal Std	4000 ppm
162107	DCM (Fisher)	—

Columns: ZB-5ms Plus 30m x .25mm x .25

Method 8270D/625

Initial Cal. Method MF6563

Injection Volume: 1 µL

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to compl with the criteria of Accutest SOP EQA044.

Supervisor Signature: [signature] Date: 4-5-16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution.	L+	IS	SU	Status (Data)	Comments
	F156088	DFTPP				1					ok	6.00pm
	156089	ic6567-100		AP9SL		2					ok	
	156090	-80				3					ok	
	156091	icc6567-50				4					ok	
	156092	ic6567-25				5					ok	
	156093	-10				6					ok	
	156094	-5				7					ok	
	156095	-2				8					ok	
	156096	-1				9					ok	
	156097	icv6564-50		HQ		10					ok	SV151827-98D
	156098	icv6567-50		m-toluidine		11					ok	OP151624123
	156099	-50		Catechol		12					ok	OP151624 8
	156100	-50		12NB		13					ok	SV151827-99
	156101	-50		2+3CA		14					ok	SV151827-100
	156102	icv6566-50		AP9 2nd		15					ok	OP161712-36
	156103	-50		Methapyrilene 3rd		16					not used	SV151829-128A not needed
	156104	-50		Hexachlorophene 2nd		17					ok	-56

MTX = Matrix. Designate W for water, S for soil, O for oil. L+ = Library Search. IS = Internal Standard Area. SU = Surrogate.

All strikeouts must be initialed, dated, and reason applied if not transcription error

Sample volume/weight used and final volumes refer to extraction log.

Form: OR015-07
Rev. Date: 1/19/16

SGS ACCUTEST JC21347

SEMI-VOLATILE by GCMS ANALYSIS LOG

SGS ACCUTEST

Batch ID EF6567

Print Analyst Name: Sara Davis

Date: 4/5/2016

Analyst Signature: SED

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
	see page 109	

Columns: ZB-5ms plus 30m x .25mm x .25um

Method 8270 D/625

Initial Cal. Method MF6563

Injection Volume: 1 ul

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: [illegible] Date: 4-5-16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution.	L+	IS	SU	Status (Data)	Comments
	F156105	ICV6566-50		APA Megamix 2nd		18					[illegible]	SV151829-68 [illegible]
	156106	-50		APA 3rd		19					[illegible]	-122A

MTX = Matrix . Designate W for water, S for soil, O for oil. L+ =Library Search. IS = Internal Standard Area. SU = Surrogate.

All strikeouts must be initialed, dated, and reason applied if not transcription error

Sample volume/weight used and final volumes refer to extraction log.

Form: OR015-07
Rev. Date: 1/19/16

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7.7.15

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SEMI-VOLATILE by GCMS ANALYSIS LOG

SGS ACCUTEST

Batch ID: EF6637

Print Analyst Name: Julius M. Johnson

Analyst Signature: JMJ

Date: 6/2/16

Columns: ZB-5ms@30m x .25mm x .25µm

Method: 8270D/625

Initial Cal. Method: MF6563

Injection Volume: 1µl

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
SV151827A1	DFTPP	50ppm
SV151827-10A6	BNA	50ppm
SV151827-9A1	TCL42	50ppm
IM5732	IS	4000ppm
163036	DCM (Fisher)	

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: AMO

Date: 6/3/16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution.	L+	IS	SU	Status (Data)	Comments
	F157712	DFTPP				1					OK	9:31pm
	157713	CC6563-50		BNA		2					OK	4,18,22,24,61,72,73 ↑
	157714	CC6564-50		TCL42		3					OK	Benzidine + benzaldehyde
	157715	TCL42 Verif 1ppm				4					OK	SV151827-75E
	157716	OP94425-MB1	94425	AB8270+		5		+	/	/	OK	
	157717	-BS1				6			/	/	OK	
	157718	-MS				7			/	/	OK	
	157719	-MSD				8			/	/	OK	
	157720	JC20725-5 ex		ABNJCL20+		9			/	↓	OK	CFS
	157721	JC21347-1		ABSL BMSL +2MNAP+MNAP)		10			/	/	OK	
	157722	-3		↓		11			/	/	OK	
	157723	JC21116-5		ABRNJPPTCL4+ @ 1:6 6/5/16		12		+	/	/	OK	
	157724	-6				13		+	/	/	OK	
	157725	-7				14		+	/	/	OK	
	157726	-8				15		+	/	/	OK	
	157727	-9		↓		16		+	/	/	OK	
	157728	JC21317-1		BTCL20+		17		+	/	/	OK	

MTX = Matrix. Designate W for water, S for soil, O for oil. L+ = Library Search. IS = Internal Standard Area. SU = Surrogate.

All strikeouts must be initialed, dated, and reason applied if not transcription error

Sample volume/weight used and final volumes refer to extraction log.

Form: OR015-07
Rev. Date: 1/19/16

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SEMI-VOLATILE by GCMS ANALYSIS LOG

SGS ACCUTEST

Batch ID: EF6637

Print Analyst Name: Dylina M. Johnson

Date: 6/3/16

Analyst Signature: DMJ

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
	See Page 175	

Columns: ZB5ms (+) 30m x .25mm x .25µm

Method 8270D/625

Initial Cal. Method MF6563

Injection Volume: 1µl

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: AMO

Date: 6/3/16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution	L+	IS	SU	Status (Data)	Comments
	F159729	JC21230-8	94425	BTCL20+		18		+	/	/	OK	6:34am
												BP 06/03/16

MTX = Matrix . Designate W for water, S for soil, O for oil. L+ =Library Search. IS = Internal Standard Area. SU = Surrogate.

All strikeouts must be initialed, dated, and reason applied if not transcription error

Sample volume/weight used and final volumes refer to extraction log.

Form: OR015-07
Rev. Date: 1/19/16

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7.7.16

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LOGBOOK ID: 6-1748

ABN Aqueous Extraction Logbook

Date Started: 6/2/16 Time Started: 16:15
Date Finished: 6/2/16 Time Finished: 2221

Extract Method (CHECK OFF "√" /DO NOT CIRCLE):
Separatory Funnel: SW846 3510C/CLP/other ✓ 3510C SIM ____
Continuous Liquid Liquid: SW846 3520C/CLP/other ____

BATCH # MS 94425	RACK# Q
Extracted by:	SD/GM
Concentrated by:	SD/RF/GM
Vialed by:	GM
Relinquished by:	
Accepted by:	
Supervisor Review:	6/3/16

Special Client Spike Instructions

QC ID# for Special Spike	Amt to Spike	Spike ID	Lot #	Conc.	Amt. Spiked

WITNESS SIGN: SPIKE SIGN:
Manager/Supervisor/Team Lead Approval:

	Sample #	Analysis Type	Sample Bottle #	Sample Description	Sample Volume (mL)	pH Adjust(mL) < 2 H2SO4	pH Adjust(mL) >11 NaOH	Final Extract Color	Final Extract Vol(mL)	Misc. GPC Cleanup	Misc. Comments
	MB1	ABN		DI H2O	1000	1	5	clear	1		
	BS1			DI H2O	1000	1	5	yellow	1		
	JC21116-5 MS		1	clear	950	1	5	yellow	1		
	⊥ MSD		1	clear	950	1	5	yellow	1		
	BS	12 SIM		DI H2O	1000	1	5	yellow	1		
	JC21116-6 MS		1	orange	500	1	5	clear	1		
	⊥ MSD		1	orange	500	1	5	clear	1		
1	JC 20725-5 rx	ABN	1	yellow	950	1	5	clear	1		
2	JC21225-24		2	clear	950	1	5	clear	1		
3	JC 21116-5		2	orange	975	1	5	clear	1		
4	-6		2	orange	650	1	5	clear	1		
5	-7		1	pink	1000	1	5	clear	1		
6	-8		2	orange	925	1	5	yellow	1		
7	-9		2	orange	900	1	5	clear	1		
8	JC21317-1		1	green	1000	1	5	brown	1		
9	JC21230-8		1	clear	1000	1	5	clear	1		
10	JC 1347-1		2	orange	950	1	5	clear	1		
11	-3		1	brown	900	1	5	clear	1		
12											
13											
14											
15											
16											
17											
18											
19											
20											

postive

1 day TAT

Comments: okay to split ms/msd sim ms/msd not enough bottles.

SPECIAL PROCESSING INSTRUCTIONS

Rx Reason:

Spiking:

Weights/Volumes: HT today

Required MS/MSD:

Final Volume:

Other:

Equipment/ Range	ID	Observed Temp (°C)	Correction Factor (°C)	Corrected Temp (°C)	Pressure/ Flowrate
Buchi (65-71°C)					
Buchi Chiller					
Waterbath (70-80°C)	6.7	75/75	-0.5/0.1	76/75	N/A
Waterbath Chiller (GPM)	F2	4	–	–	ok
NEVAP (32-38°C; LPM)	2	36.1	+0.1	36	8

SURROGATE	LOT #	CONC (ppm)	AMT (mL)
ABN	OP1617128	50	1

WITNESS SIGN: SD SPIKE SIGN: GM

MATRIX SPIKE	LOT #	CONC (ppm)	AMT (mL)
Acid	SV161935-51	50	Acid: 1
Acid (for SIM)			A(SIM): 0.1
Base #1	SV161935 56	50	1
Base #2	SV161935 50	50	1
Anilines	SV161935-54	50	1
BSIM	OP1617120	1	1

WITNESS SIGN: SD SPIKE SIGN: GM

SOLVENT	LOT #	BRAND	AMT (mL)
METH CHLOR	162641	Fisher	6160

REAGENT	LOT #	BRAND
NaOH	153807	Fisher
H2SO4	4603899	Ricca
Sodium Sulfate	157117	Fisher
Glass Wool	02212-2	Lab
Filter Paper		
pH strips		

SGS ACCUTEST INC.
Form: OP022A-08
Rev Date: 1/13/16

LOGBOOK ID: 6-1748

ABN Aqueous Extraction Logbook

Date Started: 6/2/16 Time Started: 16:15
Date Finished: 6/2/16 Time Finished: 2221

Extract Method (CHECK OFF "√" /DO NOT CIRCLE):
Separatory Funnel: SW846 3510C/CLP/other ✓ 3510C SIM ____
Continuous Liquid Liquid: SW846 3520C/CLP/other ____

BATCH # MS 94425	RACK# Q
Extracted by:	SD/GM
Concentrated by:	SD/RF/GM
Vialed by:	GM
Relinquished by:	
Accepted by:	
Supervisor Review:	6/3/16

Special Client Spike Instructions

QC ID# for Special Spike	Amt to Spike	Spike ID	Lot #	Conc.	Amt. Spiked

WITNESS SIGN: SPIKE SIGN:
Manager/Supervisor/Team Lead Approval:

	Sample #	Analysis Type	Sample Bottle #	Sample Description	Sample Volume (mL)	pH Adjust(mL) < 2 H2SO4	pH Adjust(mL) >11 NaOH	Final Extract Color	Final Extract Vol(mL)	Misc. GPC Cleanup	Misc. Comments
	MB1	ABN		DI H2O	1000	1	5	clear	1		
	BS1			DI H2O	1000	1	5	yellow	1		
	JC21116-5 MS		1	clear	950	1	5	yellow	1		
	⊥ MSD		1	clear	950	1	5	yellow	1		
	BS	12 SIM		DI H2O	1000	1	5	yellow	1		
	JC21116-6 MS		1	orange	500	1	5	clear	1		
	⊥ MSD		1	orange	500	1	5	clear	1		
1	JC 20725-5 rx	ABN	1	yellow	950	1	5	clear	1		
2	JC21225-24		2	clear	950	1	5	clear	1		
3	JC 21116-5		2	orange	975	1	5	clear	1		
4	-6		2	orange	650	1	5	clear	1		
5	-7		1	pink	1000	1	5	clear	1		
6	-8		2	orange	925	1	5	yellow	1		
7	-9		2	orange	900	1	5	clear	1		
8	JC21317-1		1	green	1000	1	5	brown	1		
9	JC21230-8		1	clear	1000	1	5	clear	1		
10	JC 1347 -1		2	orange	950	1	5	clear	1		
11	-3		1	brown	900	1	5	clear	1		
12											
13											
14											
15											
16											
17											
18											
19											
20											

postive

identAT

Comments: okay to split ms/msd sim ms/msd not enough bottles.

SPECIAL PROCESSING INSTRUCTIONS

Rx Reason:

Spiking:

Weights/Volumes: HT today

Required MS/MSD:

Final Volume:

Other:

Equipment/ Range	ID	Observed Temp (°C)	Correction Factor (°C)	Corrected Temp (°C)	Pressure/ Flowrate
Buchi (65-71°C)					
Buchi Chiller					
Waterbath (70-80°C)	6.7	75/75	-0.5/0.1	76/75	N/A
Waterbath Chiller (GPM)	F2	4	–	–	ok
NEVAP (32-38°C; LPM)	2	36.1	+0.1	36	8

SURROGATE	LOT #	CONC (ppm)	AMT (mL)
ABN	OP1617128	50	1

WITNESS SIGN: SD SPIKE SIGN: GM

MATRIX SPIKE	LOT #	CONC (ppm)	AMT (mL)
Acid	SV161935-51	50	Acid: 1
Acid (for SIM)			A(SIM): 0.1
Base #1	SV161935 56	50	1
Base #2	SV161935 50	50	1
Anilines	SV161935-54	50	1
BSIM	OP1617120	1	1

WITNESS SIGN: SD SPIKE SIGN: GM

SOLVENT	LOT #	BRAND	AMT (mL)
METH CHLOR	162641	Fisher	6160

REAGENT	LOT #	BRAND
NaOH	153807	Fisher
H2SO4	4603899	Ricca
Sodium Sulfate	157117	Fisher
Glass Wool	02212-2	Lab
Filter Paper		
pH strips		

SGS ACCUTEST INC.
Form: OP022A-08
Rev Date: 1/13/16

ABN Extraction Log - Solids

LOGBOOK ID: 6-1717

Date started: 6/4/16 Time started: 8:00 am

Date finished: 6/4/16 Time finished: 3:30 pm

Extract Method (CHECK OFF "√" /DO NOT CIRCLE):

Microwave SW3546 √ Sonication SW3550C ____

Waste Dil. SW3580A ____ Soxhlet SW3540C ____

BATCH # MS 94471 RACK# A-9

Weighed/Extracted by: SA

Concentrated by: SA | DA

Vialed by: SA | DA

Relinquished by: SA

Accepted by:

Supervisor Review: DA 6/4/16

Equipment/ Range	ID	Observed Temp (°C)	Correction Factor (°C)	Corrected Temp (°C)	Pressure/ Flowrate
Buchi (65-71°C)					
Buchi Chiller					
Waterbath (70-80°C)	10,9	76	0.6,1.3	75.77	NA
Waterbath Chiller (GPM)	M,M	4.5	—	—	2.120
NEVAP (32-38°C, LPM)	2	36.1	0.1	36	10
Balance	B-45	N/A	N/A	N/A	N/A

SURROGATE	LOT #	CONC (ppm)	AMT (mL)
ABN	1617212128	SD	1

WITNESS SIGN: DA SPIKE SIGN: SA

MATRIX SPIKE	LOT #	CONC (ppm)	AMT (mL)
Acid	16193557	SD	Acid: 1
Acid (for SIM)			A(SIM): 0.1
Base #1	16193556	SD	1
Base #2	16193550	SD	1
Aniline	16193558	SD	1
BSIM	1617212120	1	1

WITNESS SIGN: DA SPIKE SIGN: SA

SOLVENT	LOT #	BRAND	AMT (mL)
1:1 METH CHLOR/ ACETONE	162641 / 154571	~~Fisher~~	30 ml
METH CHLOR	162641	Fisher	Var

REAGENT	LOT #	BRAND
HYDROMATRIX	6277663	Agilent
SODIUM SULFATE	152117	Fisher
FILTER PAPER	9696391	Fisher

MATRIX	LOT #	BRAND
SAND	667160113114	Fisher

Sample #	Analysis Type	Sample Bottle #	Sample Description	Sample Wet Wt. (g) Oil (g) Liq (mL)	Decant Y	Decant N	Sonicator ID	Microwave ID	Final Extract Color	Final Extract Vol(mL)	GPC Cleanup	Comments
MB1	ABN		Sand	30.0				√	Clear	1		
BS1			Sand	30.0				√	Yellow	1		✱
JC21338-1A MS		1	Soil	30.9				√	Yellow	1		
MSD		1	Soil	30.4				√	Clear	1		
BS	125IM		Sand	30.0				√	Yellow	1		
JC21347-2 MS		1	Soil	30.3				√	Yellow	1		
MSD		1	Soil	30.2				√	Brown	1		
1 JC21338-1A	ABN	1	Soil	31.8				√	Brown	1		
2 -2A		1	Soil	30.7				√	Yellow	1		
3 -3A		1	Soil	30.9				√	Yellow	1		
4 -4A		1	Soil	31.0				√	Yellow	1		
5 JC21339-1A		1	Soil	32.2				√	Yellow	1		
6 -2A		1	Soil	32.6				√	Brown	1		
7 -3A		1	Soil	32.8				√	Brown	1		
8 -4A		1	Soil	30.6				√	Brown	1		
9 JC21347-2		1	Soil	30.1				√	Brown	1		
10 JC21356-1		1	Wet Soil	31.0				√	Brown	1		
11 -2		1	Wet Soil	31.2				√	Brown	1		
12 -3		1	Wet Soil	30.8				√	Yellow	1		
13 JC21358-1		1	Rock/Soil	31.5				√	Brown	1		
14 -2		1	Rock/Soil	31.0				√	Brown	1		
15 JC21462-1A		1	Soil	30.6				√	Brown	1		
16 -2A		1	Soil	31.0				√	Brown	1		
17 -3A		1	Soil	31.0				√	Brown	1		
18 JC21465-3		1	Wet Soil	31.5				√	Brown	1		
19 -4		1	Wet Soil	31.2				√	Brown	1		
20 -5		1	Wet Soil	30.9				√	Brown	1		

Comments: ✱ MS = Yellow DA 6/4/16 Δ = color is brown DA 6/4/16

● Final Sample Volume = 5 mL due to per sample matrix DA 6/4/16

Special Client Spike Instructions

QC ID# for Special Spike	Amt to Spike	Spike ID	Lot #	Conc.	Amt. Spiked

WITNESS SIGN: SPIKE SIGN:

Manager/Supervisor/Team Lead Approval:

SPECIAL PROCESSING INSTRUCTIONS

Rx Reason:

Spiking:

Weights/Volumes:

Required MS/MSD:

Final Volume:

Other:

SGS ACCUTEST INC.

Form: OP019A-06

Rev Date: 11/20/15

Prep Log OP94471 page 1 of 1

SGS ACCUTEST JC21347 582 of 901

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ABN Extraction Log - Solids

LOGBOOK ID: 6-17 17

Date started: 6/4/16 Time started: 8:00 am

Date finished: 6/4/16 Time finished: 3:30 pm

Extract Method (CHECK OFF "√" /DO NOT CIRCLE):

Microwave SW3546 ✓ Sonication SW3550C ____

Waste Dil. SW3580A ____ Soxhlet SW3540C ____

BATCH # MS 94471 RACK# A-9

Weighed/Extracted by: SA

Concentrated by: SA | DA

Vialed by: SA | DA

Relinquished by: SA

Accepted by:

Supervisor Review: DA 6/4/16

Equipment/ Range	ID	Observed Temp (°C)	Correction Factor (°C)	Corrected Temp (°C)	Pressure/ Flowrate
Buchi (65-71°C)					
Buchi Chiller					
Waterbath (70-80°C)	10,9	76	0.6,1.3	75.77	NA
Waterbath Chiller (GPM)	M,M	4.5	—	—	2.120
NEVAP (32-38°C, LPM)	2	36.1	0.1	36	10
Balance	B-45	N/A	N/A	N/A	N/A

SURROGATE	LOT #	CONC (ppm)	AMT (mL)
ABN	1617121128	50	1

WITNESS SIGN: DA SPIKE SIGN: SA

MATRIX SPIKE	LOT #	CONC (ppm)	AMT (mL)
Acid	16193557	50	Acid: 1
Acid (for SIM)			A(SIM): 0.1
Base #1	16193556	50	1
Base #2	16193550	50	1
Aniline	16193558	50	1
BSIM	1617121120	1	1

WITNESS SIGN: DA SPIKE SIGN: SA

SOLVENT	LOT #	BRAND	AMT (mL)
1:1 METH CHLOR/ ACETONE	162641 / 154571	~~Fisher~~	30 ml
METH CHLOR	162641	Fisher	Var

REAGENT	LOT #	BRAND
HYDROMATRIX	6277663	Agilent
SODIUM SULFATE	152117	Fisher
FILTER PAPER	9696391	Fisher

MATRIX	LOT #	BRAND
SAND	667160113114	Fisher

Sample #	Analysis Type	Sample Bottle #	Sample Description	Sample Wet Wt. (g) Oil (g) Liq (mL)	Decant Y	Decant N	Sonicator ID	Microwave ID	Final Extract Color	Final Extract Vol(mL)	GPC Cleanup	Comments
MB1	ABN		Sand	30.0				√	Clear	1		
BS1			Sand	30.0				√	Yellow	1		✱
JC21338-1A MS		1	Soil	30.9				√	Yellow	1		
MSD		1	Soil	30.4				√	Yellow	1		
BS	125IM		Sand	30.0				√	Clear	1		
JC21347-2 MS		1	Soil	30.3				√	Yellow	1		
MSD		1	Soil	30.2				√	Yellow	1		
1 JC21338-1A	ABN	1	Soil	31.8				√	Brown	1		
2 -2A		1	Soil	30.7				√	Brown	1		
3 -3A		1	Soil	30.9				√	Yellow	1		
4 -4A		1	Soil	31.0				√	Yellow	1		
5 JC21339-1A		1	Soil	32.2				√	Yellow	1		
6 -2A		1	Soil	32.6				√	Yellow	1		
7 -3A		1	Soil	32.8				√	Brown	1		
8 -4A		1	Soil	30.6				√	Brown	1		
9 JC21347-2		1	Soil	30.1				√	Yellow	1		
10 JC21356-1		1	Wet Soil	31.0				√	Brown	1		
11 -2		1	Wet Soil	31.2				√	Brown	1		
12 -3		1	Wet Soil	30.8				√	Yellow	1		
13 JC21358-1		1	Rock/Soil	31.5				√	Brown	1		
14 -2		1	Rock/Soil	31.0				√	Brown	1		
15 JC21462-1A		1	Soil	30.6				√	Brown	1		
16 -2A		1	Soil	31.0				√	Brown	1		
17 -3A		1	Soil	31.0				√	Brown	1		
18 JC21465-3		1	Wet Soil	31.5				√	Brown	1		
19 -4		1	Wet Soil	31.2				√	Brown	1		
20 -5		1	Wet Soil	30.9				√	Brown	1		

Comments: ✱ MS = Yellow DA 6/4/16 Δ = color is brown DA 6/4/16

● Final Sample Volume = 5 mL due to per sample matrix DA 6/4/16

Special Client Spike Instructions

QC ID# for Special Spike	Amt to Spike	Spike ID	Lot #	Conc.	Amt. Spiked

WITNESS SIGN: SPIKE SIGN:

Manager/Supervisor/Team Lead Approval:

SPECIAL PROCESSING INSTRUCTIONS

Rx Reason:

Spiking:

Weights/Volumes:

Required MS/MSD:

Final Volume:

Other:

SGS ACCUTEST INC.

Form: OP019A-06

Rev Date: 11/20/15

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SGS ACCUTEST JC21347

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GC Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- GC Identification Summaries (Hits)
- Surrogate Recovery Summaries
- GC Surrogate Retention Time Summaries
- Initial and Continuing Calibration Summaries

Method Blank Summary

Job Number: JC21347
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GGH5309-MB1	GH105341.D	1	06/02/16	XPL	n/a	n/a	GGH5309

The QC reported here applies to the following samples: **Method:** SW846-8015C (DAI)

JC21347-1, JC21347-3

CAS No.	Compound	Result	RL	MDL	Units	Q
64-17-5	Ethanol	ND	100	55	ug/l	
78-83-1	Isobutyl Alcohol	ND	100	36	ug/l	
67-63-0	Isopropyl Alcohol	ND	100	68	ug/l	
71-23-8	n-Propyl Alcohol	ND	100	43	ug/l	
71-36-3	n-Butyl Alcohol	ND	100	87	ug/l	
78-92-2	sec-Butyl Alcohol	ND	100	66	ug/l	
67-56-1	Methanol	ND	200	71	ug/l	

CAS No.	Surrogate Recoveries		Limits
111-27-3	Hexanol	76%	56-145%
111-27-3	Hexanol	79%	56-145%

Method Blank Summary

Job Number: JC21347
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GGH5310-MB1	GH105350.D	1	06/03/16	XPL	n/a	n/a	GGH5310

The QC reported here applies to the following samples: **Method:** SW846-8015C (DAI)

JC21347-2

CAS No.	Compound	Result	RL	MDL	Units	Q
64-17-5	Ethanol	ND	100	69	ug/kg	
78-83-1	Isobutyl Alcohol	ND	100	59	ug/kg	
67-63-0	Isopropyl Alcohol	ND	100	57	ug/kg	
71-23-8	n-Propyl Alcohol	ND	100	40	ug/kg	
71-36-3	n-Butyl Alcohol	ND	100	54	ug/kg	
78-92-2	sec-Butyl Alcohol	ND	100	53	ug/kg	
67-56-1	Methanol	ND	200	48	ug/kg	

CAS No.	Surrogate Recoveries		Limits
111-27-3	Hexanol	83%	52-141%
111-27-3	Hexanol	80%	52-141%

Blank Spike Summary

Job Number: JC21347
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GGH5309-BS	GH105342.D	1	06/02/16	XPL	n/a	n/a	GGH5309

The QC reported here applies to the following samples: **Method:** SW846-8015C (DAI)

JC21347-1, JC21347-3

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
64-17-5	Ethanol	5000	5690	114	74-123
78-83-1	Isobutyl Alcohol	5000	5660	113	70-124
67-63-0	Isopropyl Alcohol	5000	5640	113	76-121
71-23-8	n-Propyl Alcohol	5000	5840	117	73-122
71-36-3	n-Butyl Alcohol	5000	5160	103	67-116
78-92-2	sec-Butyl Alcohol	5000	5790	116	74-118
67-56-1	Methanol	5000	4980	100	67-121

CAS No.	Surrogate Recoveries	BSP	Limits
111-27-3	Hexanol	94%	56-145%
111-27-3	Hexanol	96%	56-145%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JC21347
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GGH5310-BS	GH105351.D	1	06/03/16	XPL	n/a	n/a	GGH5310

The QC reported here applies to the following samples: **Method:** SW846-8015C (DAI)

JC21347-2

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
64-17-5	Ethanol	5000	5840	117	75-124
78-83-1	Isobutyl Alcohol	5000	5720	114	67-126
67-63-0	Isopropyl Alcohol	5000	5740	115	76-122
71-23-8	n-Propyl Alcohol	5000	6000	120	72-122
71-36-3	n-Butyl Alcohol	5000	5000	100	62-120
78-92-2	sec-Butyl Alcohol	5000	5760	115	73-120
67-56-1	Methanol	5000	5060	101	66-121

CAS No.	Surrogate Recoveries	BSP	Limits
111-27-3	Hexanol	93%	52-141%
111-27-3	Hexanol	95%	52-141%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JC21347
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JC21347-1MS	GH105344.D	1	06/02/16	XPL	n/a	n/a	GGH5309
JC21347-1MSD	GH105345.D	1	06/02/16	XPL	n/a	n/a	GGH5309
JC21347-1	GH105343.D	1	06/02/16	XPL	n/a	n/a	GGH5309

The QC reported here applies to the following samples: **Method:** SW846-8015C (DAI)

JC21347-1, JC21347-3

CAS No.	Compound	JC21347-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
64-17-5	Ethanol	ND		5000	4960	99	5000	5310	106	7	58-145/27
78-83-1	Isobutyl Alcohol	ND		5000	5200	104	5000	5460	109	5	69-131/25
67-63-0	Isopropyl Alcohol	ND		5000	4940	99	5000	4930	99	0	70-133/28
71-23-8	n-Propyl Alcohol	ND		5000	4980	100	5000	4900	98	2	66-137/29
71-36-3	n-Butyl Alcohol	ND		5000	4520	90	5000	4840	97	7	63-131/25
78-92-2	sec-Butyl Alcohol	ND		5000	5240	105	5000	5390	108	3	64-136/25
67-56-1	Methanol	308		5000	4400	82	5000	4740	89	7	48-148/34

CAS No.	Surrogate Recoveries	MS	MSD	JC21347-1	Limits
111-27-3	Hexanol	94%	97%	84%	56-145%
111-27-3	Hexanol	98%	100%	88%	56-145%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JC21347
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JC21347-2MS	GH105353.D	1	06/03/16	XPL	n/a	n/a	GGH5310
JC21347-2MSD	GH105354.D	1	06/03/16	XPL	n/a	n/a	GGH5310
JC21347-2	GH105352.D	1	06/03/16	XPL	n/a	n/a	GGH5310

The QC reported here applies to the following samples: **Method:** SW846-8015C (DAI)

JC21347-2

CAS No.	Compound	JC21347-2 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	Spike ug/kg	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
64-17-5	Ethanol	ND		6440	6450	100	6440	6810	106	5	64-132/22
78-83-1	Isobutyl Alcohol	ND		6440	6760	105	6440	6820	106	1	59-141/26
67-63-0	Isopropyl Alcohol	ND		6440	6560	102	6440	6650	103	1	69-131/23
71-23-8	n-Propyl Alcohol	ND		6440	6630	103	6440	6890	107	4	66-135/31
71-36-3	n-Butyl Alcohol	ND		6440	6090	95	6440	5860	91	4	50-140/30
78-92-2	sec-Butyl Alcohol	ND		6440	6720	104	6440	6960	108	4	67-131/30
67-56-1	Methanol	ND		6440	6120	95	6440	6150	95	0	58-130/29

CAS No.	Surrogate Recoveries	MS	MSD	JC21347-2	Limits
111-27-3	Hexanol	85%	90%	104%	52-141%
111-27-3	Hexanol	85%	91%	107%	52-141%

* = Outside of Control Limits.

GC Identification Summary

Job Number: JC21347
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Check Std:	GGH5308-CC5288	**Injection Date:**	06/02/16
Lab File ID:	GH105338.D	**Injection Time:**	11:49
Instrument ID:	GCGH	**Method:**	SW846-8015C (DAI)

Sample ID:	JC21347-1	**Injection Date:**	06/02/16
Lab File ID:	GH105343.D	**Injection Time:**	13:54
Client ID:	SB101-GWS		

Compound	Column	RT	StdRT	Conc	Q	Units	RPD Conc
Methanol	1	1.12	1.12	310		ug/l	0.6
Methanol	2 [a]	0.90	0.89	308		ug/l	

(a) Final result reported from this column.

GC Identification Summary

Job Number: JC21347
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Check Std:	GGH5308-CC5288	**Injection Date:**	06/02/16
Lab File ID:	GH105338.D	**Injection Time:**	11:49
Instrument ID:	GCGH	**Method:**	SW846-8015C (DAI)

Sample ID:	GGH5309-BS	**Injection Date:**	06/02/16
Lab File ID:	GH105342.D	**Injection Time:**	13:37
Client ID:	Blank Spike		

Compound	Column	RT	StdRT	Conc	Q	Units	RPD Conc
Ethanol	1	1.45	1.45	5990		ug/l	5.1
Ethanol	2 [a]	1.14	1.14	5690		ug/l	
Isobutyl Alcohol	1	3.31	3.31	6220		ug/l	9.4
Isobutyl Alcohol	2 [a]	2.93	2.93	5660		ug/l	
Isopropyl Alcohol	1	1.75	1.75	5920		ug/l	4.8
Isopropyl Alcohol	2 [a]	1.40	1.40	5640		ug/l	
n-Propyl Alcohol	1	2.51	2.51	6050		ug/l	3.5
n-Propyl Alcohol	2 [a]	1.98	1.98	5840		ug/l	
n-Butyl Alcohol	1	3.76	3.76	5810		ug/l	11.9
n-Butyl Alcohol	2 [a]	3.40	3.40	5160		ug/l	
sec-Butyl Alcohol	1	2.94	2.94	5950		ug/l	2.7
sec-Butyl Alcohol	2 [a]	2.55	2.55	5790		ug/l	
Methanol	1 [a]	1.12	1.12	4980		ug/l	1.0
Methanol	2	0.89	0.89	5030		ug/l	

(a) QC results reported from this column.

GC Identification Summary

Job Number: JC21347
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Check Std:	GGH5310-CC5288	**Injection Date:**	06/03/16
Lab File ID:	GH105349.D	**Injection Time:**	08:44
Instrument ID:	GCGH	**Method:**	SW846-8015C (DAI)

Sample ID:	GGH5310-BS	**Injection Date:**	06/03/16
Lab File ID:	GH105351.D	**Injection Time:**	10:10
Client ID:	Blank Spike		

Compound	Column	RT	StdRT	Conc	Q	Units	RPD Conc
Ethanol	1	1.45	1.47	6050		ug/kg	3.5
Ethanol	2 [a]	1.14	1.14	5840		ug/kg	
Isobutyl Alcohol	1	3.31	3.32	6180		ug/kg	7.7
Isobutyl Alcohol	2 [a]	2.92	2.93	5720		ug/kg	
Isopropyl Alcohol	1	1.75	1.76	6160		ug/kg	7.1
Isopropyl Alcohol	2 [a]	1.39	1.39	5740		ug/kg	
n-Propyl Alcohol	1	2.51	2.53	6040		ug/kg	0.7
n-Propyl Alcohol	2 [a]	1.98	1.98	6000		ug/kg	
n-Butyl Alcohol	1	3.76	3.77	5760		ug/kg	14.1
n-Butyl Alcohol	2 [a]	3.40	3.40	5000		ug/kg	
sec-Butyl Alcohol	1	2.94	2.95	5890		ug/kg	2.2
sec-Butyl Alcohol	2 [a]	2.55	2.55	5760		ug/kg	
Methanol	1 [a]	1.12	1.14	5060		ug/kg	5.8
Methanol	2	0.88	0.89	5360		ug/kg	

(a) QC results reported from this column.

GC Identification Summary

Job Number: JC21347
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Check Std:	GGH5308-CC5288	**Injection Date:**	06/02/16
Lab File ID:	GH105338.D	**Injection Time:**	11:49
Instrument ID:	GCGH	**Method:**	SW846-8015C (DAI)

Sample ID:	JC21347-1MS	**Injection Date:**	06/02/16
Lab File ID:	GH105344.D	**Injection Time:**	14:08
Client ID:	Matrix Spike		

Compound	Column	RT	StdRT	Conc	Q	Units	RPD Conc
Ethanol	1	1.45	1.45	5310		ug/l	6.8
Ethanol	2 [a]	1.15	1.14	4960		ug/l	
Isobutyl Alcohol	1	3.31	3.31	5680		ug/l	8.8
Isobutyl Alcohol	2 [a]	2.93	2.93	5200		ug/l	
Isopropyl Alcohol	1	1.75	1.75	4970		ug/l	0.6
Isopropyl Alcohol	2 [a]	1.40	1.40	4940		ug/l	
n-Propyl Alcohol	1	2.51	2.51	5400		ug/l	8.1
n-Propyl Alcohol	2 [a]	1.99	1.98	4980		ug/l	
n-Butyl Alcohol	1	3.75	3.76	5330		ug/l	16.4
n-Butyl Alcohol	2 [a]	3.41	3.40	4520		ug/l	
sec-Butyl Alcohol	1	2.94	2.94	5390		ug/l	2.8
sec-Butyl Alcohol	2 [a]	2.56	2.55	5240		ug/l	
Methanol	1	1.12	1.12	4760		ug/l	7.9
Methanol	2 [a]	0.90	0.89	4400		ug/l	

(a) QC results reported from this column.

GC Identification Summary

Job Number: JC21347
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Check Std:	GGH5310-CC5288	**Injection Date:**	06/03/16
Lab File ID:	GH105349.D	**Injection Time:**	08:44
Instrument ID:	GCGH	**Method:**	SW846-8015C (DAI)

Sample ID:	JC21347-2MS	**Injection Date:**	06/03/16
Lab File ID:	GH105353.D	**Injection Time:**	10:55
Client ID:	Matrix Spike		

Compound	Column	RT	StdRT	Conc	Q	Units	RPD Conc
Ethanol	1	1.45	1.47	6400		ug/kg	0.8
Ethanol	2 [a]	1.14	1.14	6450		ug/kg	
Isobutyl Alcohol	1	3.31	3.32	7190		ug/kg	6.2
Isobutyl Alcohol	2 [a]	2.93	2.93	6760		ug/kg	
Isopropyl Alcohol	1	1.75	1.76	6530		ug/kg	0.5
Isopropyl Alcohol	2 [a]	1.40	1.39	6560		ug/kg	
n-Propyl Alcohol	1	2.51	2.53	6670		ug/kg	0.6
n-Propyl Alcohol	2 [a]	1.99	1.98	6630		ug/kg	
n-Butyl Alcohol	1	3.76	3.77	7850		ug/kg	25.3
n-Butyl Alcohol	2 [a]	3.40	3.40	6090		ug/kg	
sec-Butyl Alcohol	1	2.94	2.95	6820		ug/kg	1.5
sec-Butyl Alcohol	2 [a]	2.56	2.55	6720		ug/kg	
Methanol	1	1.12	1.14	5560		ug/kg	9.6
Methanol	2 [a]	0.89	0.89	6120		ug/kg	

(a) QC results reported from this column.

GC Identification Summary

Job Number: JC21347
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Check Std:	GGH5308-CC5288	**Injection Date:**	06/02/16
Lab File ID:	GH105338.D	**Injection Time:**	11:49
Instrument ID:	GCGH	**Method:**	SW846-8015C (DAI)

Sample ID:	JC21347-1MSD	**Injection Date:**	06/02/16
Lab File ID:	GH105345.D	**Injection Time:**	14:30
Client ID:	Matrix Spike Duplicate		

Compound	Column	RT	StdRT	Conc	Q	Units	RPD Conc
Ethanol	1	1.45	1.45	5080		ug/l	4.4
Ethanol	2 [a]	1.14	1.14	5310		ug/l	
Isobutyl Alcohol	1	3.30	3.31	5720		ug/l	4.7
Isobutyl Alcohol	2 [a]	2.93	2.93	5460		ug/l	
Isopropyl Alcohol	1	1.75	1.75	5440		ug/l	9.8
Isopropyl Alcohol	2 [a]	1.40	1.40	4930		ug/l	
n-Propyl Alcohol	1	2.50	2.51	5700		ug/l	15.1
n-Propyl Alcohol	2 [a]	1.98	1.98	4900		ug/l	
n-Butyl Alcohol	1	3.75	3.76	6020		ug/l	21.7
n-Butyl Alcohol	2 [a]	3.40	3.40	4840		ug/l	
sec-Butyl Alcohol	1	2.94	2.94	5340		ug/l	0.9
sec-Butyl Alcohol	2 [a]	2.55	2.55	5390		ug/l	
Methanol	1	1.12	1.12	4680		ug/l	1.3
Methanol	2 [a]	0.89	0.89	4740		ug/l	

(a) QC results reported from this column.

GC Identification Summary

Job Number: JC21347
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Check Std:	GGH5310-CC5288	**Injection Date:**	06/03/16
Lab File ID:	GH105349.D	**Injection Time:**	08:44
Instrument ID:	GCGH	**Method:**	SW846-8015C (DAI)

Sample ID:	JC21347-2MSD	**Injection Date:**	06/03/16
Lab File ID:	GH105354.D	**Injection Time:**	11:13
Client ID:	Matrix Spike Duplicate		

Compound	Column	RT	StdRT	Conc	Q	Units	RPD Conc
Ethanol	1	1.45	1.47	7090		ug/kg	4.0
Ethanol	2 [a]	1.14	1.14	6810		ug/kg	
Isobutyl Alcohol	1	3.31	3.32	7450		ug/kg	8.8
Isobutyl Alcohol	2 [a]	2.92	2.93	6820		ug/kg	
Isopropyl Alcohol	1	1.75	1.76	6930		ug/kg	4.1
Isopropyl Alcohol	2 [a]	1.40	1.39	6650		ug/kg	
n-Propyl Alcohol	1	2.51	2.53	7120		ug/kg	3.3
n-Propyl Alcohol	2 [a]	1.99	1.98	6890		ug/kg	
n-Butyl Alcohol	1	3.76	3.77	6910		ug/kg	16.4
n-Butyl Alcohol	2 [a]	3.39	3.40	5860		ug/kg	
sec-Butyl Alcohol	1	2.94	2.95	7110		ug/kg	2.1
sec-Butyl Alcohol	2 [a]	2.56	2.55	6960		ug/kg	
Methanol	1	1.11	1.14	5920		ug/kg	3.8
Methanol	2 [a]	0.89	0.89	6150		ug/kg	

(a) QC results reported from this column.

Volatile Surrogate Recovery Summary

Job Number: JC21347
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Method: SW846-8015C (DAI) **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1 [a]	S1 [b]
JC21347-1	GH105343.D	84	88
JC21347-3	GH105346.D	66	71
GGH5309-BS	GH105342.D	94	96
GGH5309-MB1	GH105341.D	76	79
JC21347-1MS	GH105344.D	94	98
JC21347-1MSD	GH105345.D	97	100

Surrogate Compounds	Recovery Limits
S1 = Hexanol	56-145%

(a) Recovery from GC signal #2
(b) Recovery from GC signal #1

Volatile Surrogate Recovery Summary

Job Number: JC21347
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Method: SW846-8015C (DAI) **Matrix:** SO

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1 [a]	S1 [b]
JC21347-2	GH105352.D	104	107
GGH5310-BS	GH105351.D	93	95
GGH5310-MB1	GH105350.D	83	80
JC21347-2MS	GH105353.D	85	85
JC21347-2MSD	GH105354.D	90	91

Surrogate Compounds	Recovery Limits
S1 = Hexanol	52-141%

(a) Recovery from GC signal #2
(b) Recovery from GC signal #1

GC Surrogate Retention Time Summary

Job Number: JC21347
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Check Std:	GGH5308-CC5288	**Injection Date:**	06/02/16
Lab File ID:	GH105338.D	**Injection Time:**	11:49
Instrument ID:	GCGH	**Method:**	SW846-8015C (DAI)

	S1 [a] RT	S1 [b] RT
Check Std	5.45	5.57

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	S1 [a] RT	S1 [b] RT
GGH5309-MB1	GH105341.D	06/02/16	13:23	5.44	5.57
GGH5309-BS	GH105342.D	06/02/16	13:37	5.45	5.56
JC21347-1	GH105343.D	06/02/16	13:54	5.45	5.56
JC21347-1MS	GH105344.D	06/02/16	14:08	5.45	5.56
JC21347-1MSD	GH105345.D	06/02/16	14:30	5.45	5.56
JC21347-3	GH105346.D	06/02/16	14:44	5.45	5.56

Surrogate Compounds

S1 = Hexanol

(a) Retention time from GC signal #2
(b) Retention time from GC signal #1

GC Surrogate Retention Time Summary

Job Number: JC21347
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Check Std:	GGH5310-CC5288	**Injection Date:**	06/03/16
Lab File ID:	GH105349.D	**Injection Time:**	08:44
Instrument ID:	GCGH	**Method:**	SW846-8015C (DAI)

	S1 [a] RT	S1 [b] RT
Check Std	5.45	5.57

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	S1 [a] RT	S1 [b] RT
GGH5310-MB1	GH105350.D	06/03/16	09:34	5.47	5.57
GGH5310-BS	GH105351.D	06/03/16	10:10	5.47	5.57
JC21347-2	GH105352.D	06/03/16	10:42	5.47	5.56
JC21347-2MS	GH105353.D	06/03/16	10:55	5.47	5.57
JC21347-2MSD	GH105354.D	06/03/16	11:13	5.47	5.56

Surrogate Compounds

S1 = Hexanol

(a) Retention time from GC signal #2
(b) Retention time from GC signal #1

Initial Calibration Summary

Job Number: JC21347
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR
Sample: GGH5288-ICC5288
Lab FileID: GH105020.D

Response Factor Report GCGH

Method : C:\HPCHEM\1\METHODS\MGH5288.M (Chemstation Integrator)
Title : METHOD SW846-8015C (DAI)
Last Update : Wed May 18 08:55:49 2016
Response via : Initial Calibration

Calibration Files
0.5 =GH105018.D 1 =GH105019.D 5 =GH105020.D 10 =GH105021.D
50 =GH105022.D 100 =GH105023.D 0.1 =GH105017.D =

Compound	0.5	1	5	10	50	100	0.1	Avg	%RSD
1) Methanol	1.474	1.617	1.549	1.574	1.441	1.381	1.784	1.546 E1	8.59
2) Ethanol	1.481	1.886	1.989	2.027	1.870	1.914	2.099	1.895 E1	10.57
3) Tert-Butyl A	2.644	2.895	2.860	2.948	2.724	2.958	2.806	2.833 E1	4.12
4) 1-Propanol	2.265	2.525	2.568	2.579	2.395	2.511	2.187	2.433 E1	6.38
5) 2-Propanol	1.765	2.050	2.101	2.139	1.981	2.028	1.888	1.993 E1	6.50
6) Isobutanol	2.804	2.950	2.948	2.988	2.739	2.927	2.784	2.877 E1	3.42
7) 1-Butanol	2.898	2.941	2.862	2.890	2.632	2.755	3.014	2.856 E1	4.42
8) 2-Butanol	2.368	2.558	2.588	2.626	2.424	2.540	2.840	2.563 E1	5.95
9) Hexanol	6.661	6.854	6.904	7.104	6.883		6.152	6.760 E1	4.87

Signal #2

1) Methanol	3.395	2.969	3.474	3.464	3.153	3.141	2.982	3.225 E1	6.76
2) Ethanol	4.063	3.635	4.347	4.327	3.993	4.176	3.361	3.986 E1	9.18
3) Tert-Butyl A	6.528	6.375	6.640	6.640	6.134	6.562	5.629	6.358 E1	5.79
4) 1-Propanol	5.216	5.281	5.494	5.499	5.155	5.488	3.458	5.084 E1	14.38
5) 2-Propanol	4.929	4.342	4.733	4.727	4.363	4.597	4.004	4.528 E1	6.88
6) Isobutanol	6.364	5.960	6.233	6.327	5.766	6.160	6.044	6.122 E1	3.48
7) 1-Butanol	7.458	7.365	6.389	6.043	5.678	5.940	7.445	6.617 E1	11.83
8) 2-Butanol	5.511	5.860	5.620	5.660	5.265	5.573	4.510	5.428 E1	8.15
9) Hexanol	1.546	1.555	1.589	1.628	1.578		1.424	1.553 E2	4.50

(#) = Out of Range ### Number of calibration levels exceeded format ###

MGH5288.M Wed May 18 09:03:27 2016 GCGH

Initial Calibration Verification

Job Number: JC21347 **Sample:** GGH5288-ICV5288
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** GH105024.D
Project: BMSMC, Building 5 Area, PR

Evaluate Continuing Calibration Report

```
Data File : C:\HPCHEM\1\DATA\GH105024.D\FID1A.CH        Vial: 9
Acq On    : 17 May 2016   6:02 pm                   Operator: XULIU
Sample    : ICV5288-5000                            Inst    : GCGH
Misc      : GC48422,GGH5288,5.0,,,,1                Multiplr: 1.00
IntFile   : AUTOINT1.E

Data File : C:\HPCHEM\1\DATA\GH105024.D\FID2B.CH        Vial: 9
Acq On    : 17 May 2016   6:24 pm                   Operator: XULIU
Sample    : ICV5288-5000                            Inst    : GCGH
Misc      : GC48422,GGH5288,5.0,,,,1                Multiplr: 1.00
IntFile   : autoint2.e

Method       : C:\HPCHEM\1\METHODS\MGH5288.M (Chemstation Integrator)
Title        : METHOD SW846-8015C (DAI)
Last Update  : Wed May 18 08:55:49 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 : 150%
```

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT Window
1	Methanol	15.459	13.025	15.7	84	0.00	1.09- 1.15
2	Ethanol	18.950	20.029	-5.7	101	0.00	1.41- 1.50
3	Tert-Butyl Alcohol	28.335	29.971	-5.8	105	0.00	1.96- 2.08
4	1-Propanol	24.326	25.536	-5.0	99	0.00	2.46- 2.58
5	2-Propanol	19.931	21.074	-5.7	100	0.00	1.71- 1.80
6	Isobutanol	28.771	30.222	-5.0	103	0.00	3.27- 3.36
7	1-Butanol	28.561	29.118	-2.0	102	0.00	3.73- 3.79
8	2-Butanol	25.634	26.603	-3.8	103	0.00	2.89- 3.01
9 S	Hexanol	67.597	69.942	-3.5	101	0.00	5.54- 5.60
*****	Signal #2 *****						
1	Methanol	32.254	34.546	-7.1	99	0.00	0.87- 0.93
2	Ethanol	39.861	45.328	-13.7	104	0.00	1.13- 1.19
3	Tert-Butyl Alcohol	63.583	66.584	-4.7	100	0.00	1.63- 1.69
4	1-Propanol	50.842	57.021	-12.2	104	0.01	1.99- 2.06
5	2-Propanol	45.279	47.646	-5.2	101	0.00	1.38- 1.44
6	Isobutanol	61.221	66.607	-8.8	107	0.00	2.91- 2.97
7	1-Butanol	66.170	65.238	1.4	102	0.01	3.39- 3.45
8	2-Butanol	54.284	60.860	-12.1	108	0.00	2.54- 2.60
9 S	Hexanol	155.348	158.160	-1.8	100	0.00	5.47- 5.53

(#) = Out of Range SPCC's out = 0 CCC's out = 0
GH105020.D MGH5288.M Wed May 18 09:09:59 2016 GCGH

Continuing Calibration Summary

Job Number: JC21347 **Sample:** GGH5308-CC5288
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** GH105338.D
Project: BMSMC, Building 5 Area, PR

Evaluate Continuing Calibration Report

```
Data File : C:\HPCHEM\1\DATA\GH105338.D\FID1A.CH         Vial: 95
Acq On    :  2 Jun 2016  11:49 am                    Operator: XULIU
Sample    : CC5288-10000                             Inst    : GCGH
Misc      : GC48528,GGH5308,5.0,,,,1                 Multiplr: 1.00
IntFile   : AUTOINT1.E

Data File : C:\HPCHEM\1\DATA\GH105338.D\FID2B.CH         Vial: 95
Acq On    :  2 Jun 2016  12:04 pm                    Operator: XULIU
Sample    : CC5288-10000                             Inst    : GCGH
Misc      : GC48528,GGH5307,5.0,,,,1                 Multiplr: 1.00
IntFile   : autoint2.e

Method       : C:\HPCHEM\1\METHODS\MGH5288.M (Chemstation Integrator)
Title        : METHOD SW846-8015C (DAI)
Last Update  : Mon May 23 10:02:11 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 : 150%
```

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT Window
1	Methanol	15.459	14.850	3.9	94	0.00	1.09- 1.15
2	Ethanol	18.950	20.513	-8.2	101	0.00	1.41- 1.50
3	Tert-Butyl Alcohol	28.335	29.932	-5.6	102	0.00	1.96- 2.08
4	1-Propanol	24.326	27.925	-14.8	108	0.00	2.45- 2.57
5	2-Propanol	19.931	21.207	-6.4	99	0.00	1.71- 1.80
6	Isobutanol	28.771	32.878	-14.3	110	0.00	3.27- 3.36
7	1-Butanol	28.561	30.634	-7.3	106	0.00	3.73- 3.79
8	2-Butanol	25.634	28.230	-10.1	108	0.00	2.88- 3.00
9 S	Hexanol	67.597	68.768	-1.7	97	0.00	5.54- 5.60

***** Signal #2 *****

1	Methanol	32.254	32.430	-0.5	94	0.00	0.86- 0.92
2	Ethanol	39.861	43.516	-9.2	101	0.00	1.11- 1.17
3	Tert-Butyl Alcohol	63.583	69.764	-9.7	105	0.00	1.61- 1.67
4	1-Propanol	50.842	56.083	-10.3	102	0.00	1.95- 2.02
5	2-Propanol	45.279	48.284	-6.6	102	0.00	1.37- 1.43
6	Isobutanol	61.221	65.923	-7.7	104	0.00	2.90- 2.96
7	1-Butanol	66.170	62.882	5.0	104	0.00	3.37- 3.43
8	2-Butanol	54.284	58.319	-7.4	103	0.00	2.52- 2.58
9 S	Hexanol	155.348	157.707	-1.5	97	0.00	5.42- 5.48

(#) = Out of Range SPCC's out = 0 CCC's out = 0
GH105021.D MGH5288.M Thu Jun 02 13:39:31 2016 GCGH

Continuing Calibration Summary

Job Number: JC21347 **Sample:** GGH5309-CC5288
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** GH105347.D
Project: BMSMC, Building 5 Area, PR

Evaluate Continuing Calibration Report

```
Data File : C:\HPCHEM\1\DATA\GH105347.D\FID1A.CH        Vial: 95
Acq On    :  2 Jun 2016   2:59 pm                   Operator: XULIU
Sample    : CC5288-5000                             Inst    : GCGH
Misc      : GC48539,GGH5309,5.0,,,,1                Multiplr: 1.00
IntFile   : AUTOINT1.E

Data File : C:\HPCHEM\1\DATA\GH105347.D\FID2B.CH        Vial: 95
Acq On    :  2 Jun 2016   3:18 pm                   Operator: XULIU
Sample    : CC5288-5000                             Inst    : GCGH
Misc      : GC48539,GGH5309,5.0,,,,1                Multiplr: 1.00
IntFile   : autoint2.e

Method       : C:\HPCHEM\1\METHODS\MGH5288.M (Chemstation Integrator)
Title        : METHOD SW846-8015C (DAI)
Last Update  : Mon May 23 10:02:11 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 : 150%
```

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT Window
1	Methanol	15.459	14.253	7.8	92	0.00	1.09- 1.15
2	Ethanol	18.950	21.517	-13.5	108	0.00	1.40- 1.49
3	Tert-Butyl Alcohol	28.335	32.038	-13.1	112	0.00	1.94- 2.06
4	1-Propanol	24.326	28.191	-15.9	110	0.00	2.44- 2.56
5	2-Propanol	19.931	22.007	-10.4	105	0.00	1.70- 1.79
6	Isobutanol	28.771	32.644	-13.5	111	0.00	3.26- 3.35
7	1-Butanol	28.561	31.833	-11.5	111	0.00	3.72- 3.78
8	2-Butanol	25.634	28.311	-10.4	109	0.00	2.87- 2.99
9 S	Hexanol	67.597	61.549	8.9	89	0.00	5.53- 5.59
*****	Signal #2 *****						
1	Methanol	32.254	28.184	12.6	81	0.00	0.87- 0.93
2	Ethanol	39.861	41.147	-3.2	95	0.00	1.12- 1.18
3	Tert-Butyl Alcohol	63.583	70.528	-10.9	106	0.00	1.61- 1.67
4	1-Propanol	50.842	59.266	-16.6	108	0.00	1.95- 2.02
5	2-Propanol	45.279	46.709	-3.2	99	0.00	1.37- 1.43
6	Isobutanol	61.221	68.161	-11.3	109	0.00	2.90- 2.96
7	1-Butanol	66.170	65.335	1.3	102	0.00	3.38- 3.44
8	2-Butanol	54.284	60.332	-11.1	107	0.00	2.53- 2.59
9 S	Hexanol	155.348	136.969	11.8	86	0.00	5.41- 5.47

(#) = Out of Range SPCC's out = 0 CCC's out = 0
GH105020.D MGH5288.M Thu Jun 02 15:31:08 2016 GCGH

Continuing Calibration Summary

Job Number: JC21347 **Sample:** GGH5310-CC5288
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** GH105349.D
Project: BMSMC, Building 5 Area, PR

Evaluate Continuing Calibration Report

```
Data File : C:\HPCHEM\1\DATA\GH105349.D\FID1A.CH        Vial: 92
Acq On    :  3 Jun 2016   8:44 am                   Operator: XULIU
Sample    : CC5288-5000                             Inst    : GCGH
Misc      : GC48540,GGH5310,5.0,,,,1                Multiplr: 1.00
IntFile   : AUTOINT1.E

Data File : C:\HPCHEM\1\DATA\GH105349.D\FID2B.CH        Vial: 92
Acq On    :  3 Jun 2016   8:58 am                   Operator: XULIU
Sample    : CC5288-5000                             Inst    : GCGH
Misc      : GC48540,GGH5310,5.0,,,,1                Multiplr: 1.00
IntFile   : autoint2.e

Method       : C:\HPCHEM\1\METHODS\MGH5288.M (Chemstation Integrator)
Title        : METHOD SW846-8015C (DAI)
Last Update  : Mon May 23 10:02:11 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 : 150%
```

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT Window
1	Methanol	15.459	15.251	1.3	98	0.00	1.11- 1.17
2	Ethanol	18.950	22.212	-17.2	112	0.00	1.42- 1.51
3	Tert-Butyl Alcohol	28.335	32.504	-14.7	114	0.00	1.97- 2.09
4	1-Propanol	24.326	28.422	-16.8	111	0.00	2.47- 2.59
5	2-Propanol	19.931	23.436	-17.6	112	0.00	1.72- 1.81
6	Isobutanol	28.771	33.044	-14.9	112	0.00	3.27- 3.37
7	1-Butanol	28.561	30.492	-6.8	107	0.00	3.74- 3.80
8	2-Butanol	25.634	28.348	-10.6	110	0.00	2.89- 3.01
9 S	Hexanol	67.597	70.328	-4.0	102	0.00	5.54- 5.60
*****	Signal #2 *****						
1	Methanol	32.254	33.922	-5.2	98	0.00	0.86- 0.92
2	Ethanol	39.861	45.436	-14.0	105	0.00	1.11- 1.17
3	Tert-Butyl Alcohol	63.583	73.004	-14.8	110	0.00	1.60- 1.66
4	1-Propanol	50.842	59.693	-17.4	109	0.00	1.95- 2.02
5	2-Propanol	45.279	50.342	-11.2	106	0.00	1.36- 1.42
6	Isobutanol	61.221	68.536	-11.9	110	0.00	2.90- 2.96
7	1-Butanol	66.170	65.867	0.5	103	0.00	3.37- 3.43
8	2-Butanol	54.284	61.068	-12.5	109	0.00	2.52- 2.58
9 S	Hexanol	155.348	159.742	-2.8	101	0.00	5.42- 5.48

(#) = Out of Range SPCC's out = 0 CCC's out = 0
GH105020.D MGH5288.M Fri Jun 03 11:06:06 2016 GCGH

Continuing Calibration Summary

Job Number: JC21347 **Sample:** GGH5310-CC5288
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** GH105356.D
Project: BMSMC, Building 5 Area, PR

Evaluate Continuing Calibration Report

```
Data File : C:\HPCHEM\1\DATA\GH105356.D\FID1A.CH        Vial: 95
Acq On    :  3 Jun 2016   1:14 pm                   Operator: XULIU
Sample    : CC5288-10000                            Inst    : GCGH
Misc      : GC48540,GGH5310,5.0,,,,1                Multiplr: 1.00
IntFile   : AUTOINT1.E

Data File : C:\HPCHEM\1\DATA\GH105356.D\FID2B.CH        Vial: 95
Acq On    :  3 Jun 2016   1:32 pm                   Operator: XULIU
Sample    : CC5288-10000                            Inst    : GCGH
Misc      : GC48540,GGH5310,5.0,,,,1                Multiplr: 1.00
IntFile   : autoint2.e

Method       : C:\HPCHEM\1\METHODS\MGH5288.M (Chemstation Integrator)
Title        : METHOD SW846-8015C (DAI)
Last Update  : Mon May 23 10:02:11 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 : 150%
```

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT Window
1	Methanol	15.459	13.105	15.2	83	0.00	1.09- 1.15
2	Ethanol	18.950	20.620	-8.8	102	0.00	1.40- 1.49
3	Tert-Butyl Alcohol	28.335	30.867	-8.9	105	0.00	1.95- 2.07
4	1-Propanol	24.326	27.629	-13.6	107	0.00	2.45- 2.57
5	2-Propanol	19.931	21.780	-9.3	102	0.00	1.70- 1.79
6	Isobutanol	28.771	32.116	-11.6	107	0.00	3.26- 3.35
7	1-Butanol	28.561	29.607	-3.7	102	0.00	3.72- 3.78
8	2-Butanol	25.634	27.446	-7.1	105	0.00	2.88- 3.00
9 S	Hexanol	67.597	66.966	0.9	94	0.00	5.53- 5.59
*****	Signal #2 *****						
1	Methanol	32.254	29.599	8.2	85	0.00	0.85- 0.91
2	Ethanol	39.861	41.636	-4.5	96	0.00	1.11- 1.17
3	Tert-Butyl Alcohol	63.583	67.496	-6.2	102	0.00	1.60- 1.66
4	1-Propanol	50.842	58.549	-15.2	106	0.00	1.95- 2.02
5	2-Propanol	45.279	45.975	-1.5	97	0.00	1.36- 1.42
6	Isobutanol	61.221	64.976	-6.1	103	0.00	2.90- 2.96
7	1-Butanol	66.170	61.509	7.0	102	0.00	3.37- 3.43
8	2-Butanol	54.284	57.576	-6.1	102	0.00	2.52- 2.58
9 S	Hexanol	155.348	146.603	5.6	90	0.00	5.44- 5.50

(#) = Out of Range SPCC's out = 0 CCC's out = 0
GH105021.D MGH5288.M Mon Jun 06 10:18:10 2016 GCGH

8.7.6

8

GC Volatiles

Raw Data

Quantitation Report (QT Reviewed)

```
Data File : C:\HPCHEM\1\DATA\GH105343.D\FID1A.CH          Vial: 26
Acq On    :  2 Jun 2016   1:54 pm                     Operator: XULIU
Sample    : JC21347-1                                 Inst    : GCGH
Misc      : GC48539,GGH5309,5.0,,,,1                  Multiplr: 1.00
IntFile   : AUTOINT1.E

Data File : C:\HPCHEM\1\DATA\GH105343.D\FID2B.CH          Vial: 26
Acq On    :  2 Jun 2016   2:08 pm                     Operator: XULIU
Sample    : JC21347-1                                 Inst    : GCGH
Misc      : GC48539,GGH5309,5.0,,,,1                  Multiplr: 1.00
IntFile   : autoint2.e
Quant Time: Jun  2 14:54 2016  Quant Results File: MGH5288.RES

Quant Method : C:\HPCHEM\1\METHODS\MGH5288.M (Chemstation Integrator)
Title        : METHOD SW846-8015C (DAI)
Last Update  : Thu Jun 02 14:43:15 2016
Response via : Initial Calibration
DataAcq Meth : MGH5288.M

Volume Inj.     : 2ul
Signal #1 Phase : ZB-624            Signal #2 Phase: RTX-1
Signal #1 Info  : 30mx0.53mmx3um    Signal #2 Info : 30mx0.32mmx3um
```

Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
System Monitoring Compounds						
9) S Hexanol	5.56	5.45	295970	653488	4378.467	4206.622
Spiked Amount 5000.000			Recovery	=	87.57%	84.13%
Target Compounds						
1) Methanol	1.12	0.90	4786	9942	309.617	308.236
3) Tert-Butyl Alcoh	2.01	1.64	18475	39797	652.017	625.899

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

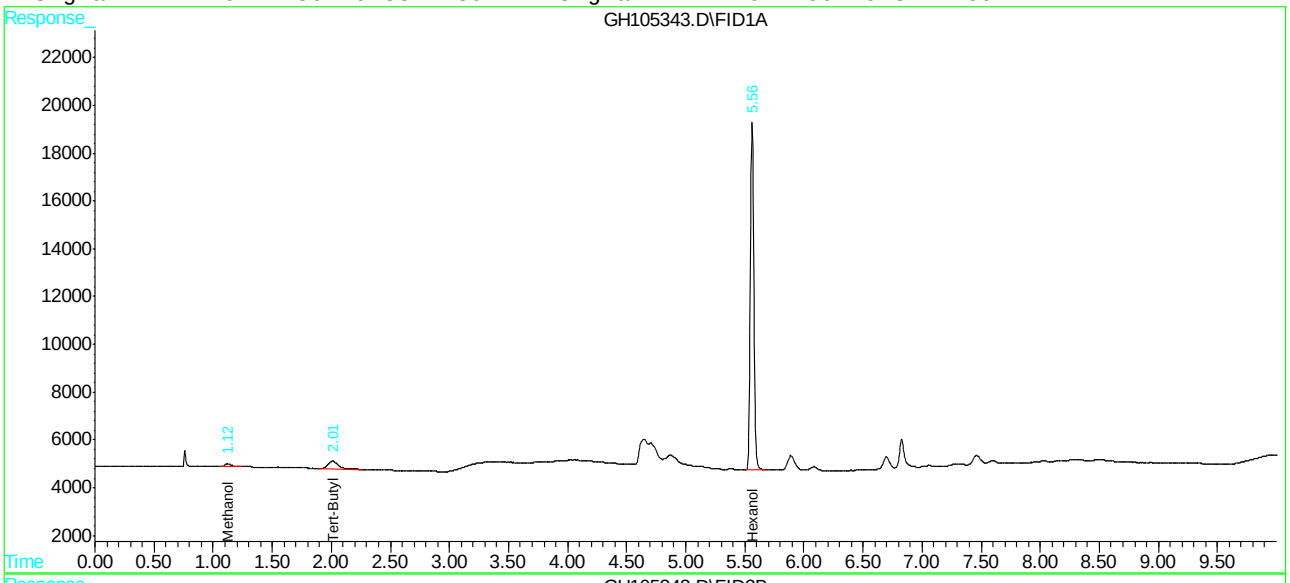
Quantitation Report (QT Reviewed)

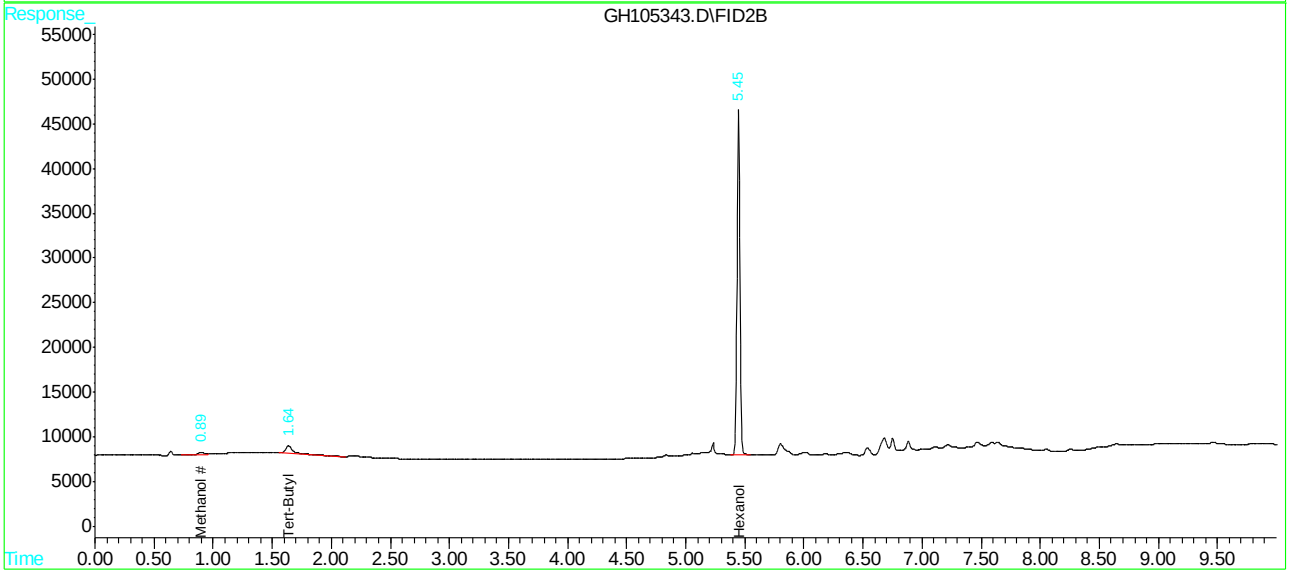
```
Data File : C:\HPCHEM\1\DATA\GH105343.D\FID1A.CH          Vial: 26
Acq On    :  2 Jun 2016   1:54 pm                     Operator: XULIU
Sample    : JC21347-1                                 Inst    : GCGH
Misc      : GC48539,GGH5309,5.0,,,,1                  Multiplr: 1.00
IntFile   : AUTOINT1.E

Data File : C:\HPCHEM\1\DATA\GH105343.D\FID2B.CH          Vial: 26
Acq On    :  2 Jun 2016   2:08 pm                     Operator: XULIU
Sample    : JC21347-1                                 Inst    : GCGH
Misc      : GC48539,GGH5309,5.0,,,,1                  Multiplr: 1.00
IntFile   : autoint2.e
Quant Time: Jun  2 14:54 2016  Quant Results File: MGH5288.RES

Quant Method : C:\HPCHEM\1\METHODS\MGH5288.M (Chemstation Integrator)
Title        : METHOD SW846-8015C (DAI)
Last Update  : Thu Jun 02 14:43:15 2016
Response via : Multiple Level Calibration
DataAcq Meth : MGH5288.M

Volume Inj.     : 2ul
Signal #1 Phase : ZB-624            Signal #2 Phase: RTX-1
Signal #1 Info  : 30mx0.53mmx3um    Signal #2 Info : 30mx0.32mmx3um
```





Quantitation Report (QT Reviewed)

```
Data File : C:\HPCHEM\1\DATA\GH105352.D\FID1A.CH          Vial: 20
Acq On    :  3 Jun 2016  10:42 am                     Operator: XULIU
Sample    : JC21347-2                                 Inst    : GCGH
Misc      : GC48540,GGH5310,5.0,,,,1                  Multiplr: 1.00
IntFile   : AUTOINT1.E

Data File : C:\HPCHEM\1\DATA\GH105352.D\FID2B.CH          Vial: 20
Acq On    :  3 Jun 2016  10:55 am                     Operator: XULIU
Sample    : JC21347-2                                 Inst    : GCGH
Misc      : GC48540,GGH5310,5.0,,,,1                  Multiplr: 1.00
IntFile   : autoint2.e
Quant Time: Jun  6 10:12 2016  Quant Results File: MGH5288.RES

Quant Method : C:\HPCHEM\1\METHODS\MGH5288.M (Chemstation Integrator)
Title        : METHOD SW846-8015C (DAI)
Last Update  : Fri Jun 03 10:39:12 2016
Response via : Initial Calibration
DataAcq Meth : MGH5288.M

Volume Inj.     : 2ul
Signal #1 Phase : ZB-624            Signal #2 Phase: RTX-1
Signal #1 Info  : 30mx0.53mmx3um    Signal #2 Info : 30mx0.32mmx3um

 Compound          RT#1   RT#2    Resp#1   Resp#2     PPB       PPB
---------------------------------------------------------------------

System Monitoring Compounds
9) S   Hexanol          5.56   5.47    362902   810310 5368.634  5216.110
 Spiked Amount   5000.000                 Recovery     =  107.37%   104.32%

Target Compounds
```

9.1.2

9

```
---------------------------------------------------------------------------
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40%  (m)=manual int.
GH105352.D  MGH5288.M      Mon Jun 06 10:12:07 2016      GCGH
```


SGS ACCUTEST JC21347

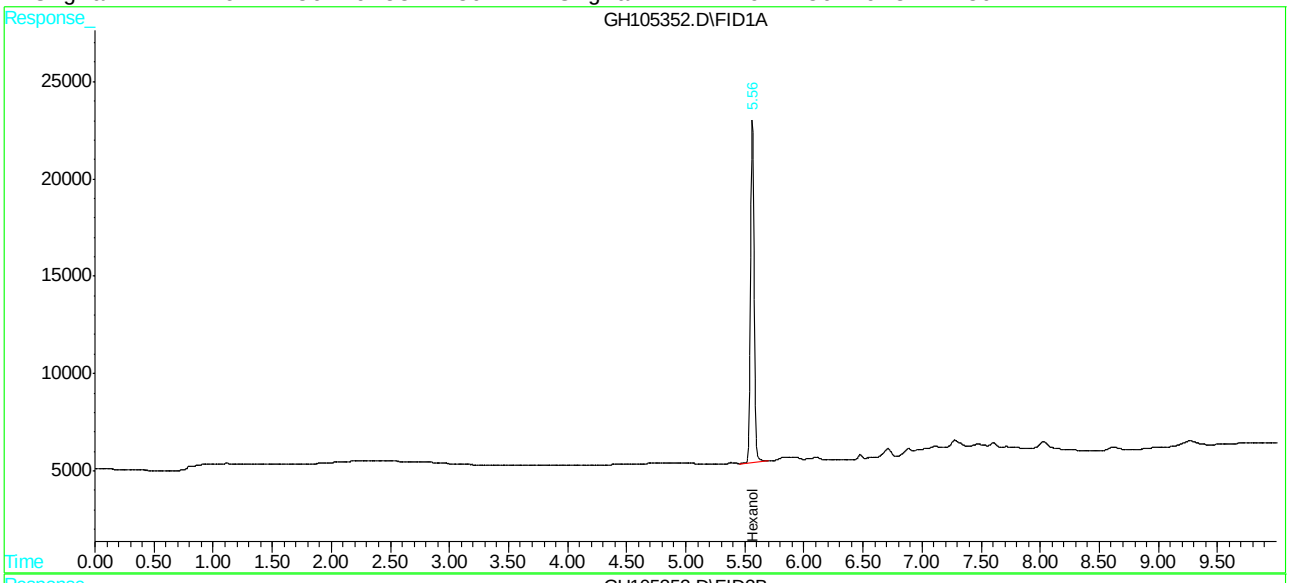
Quantitation Report (QT Reviewed)

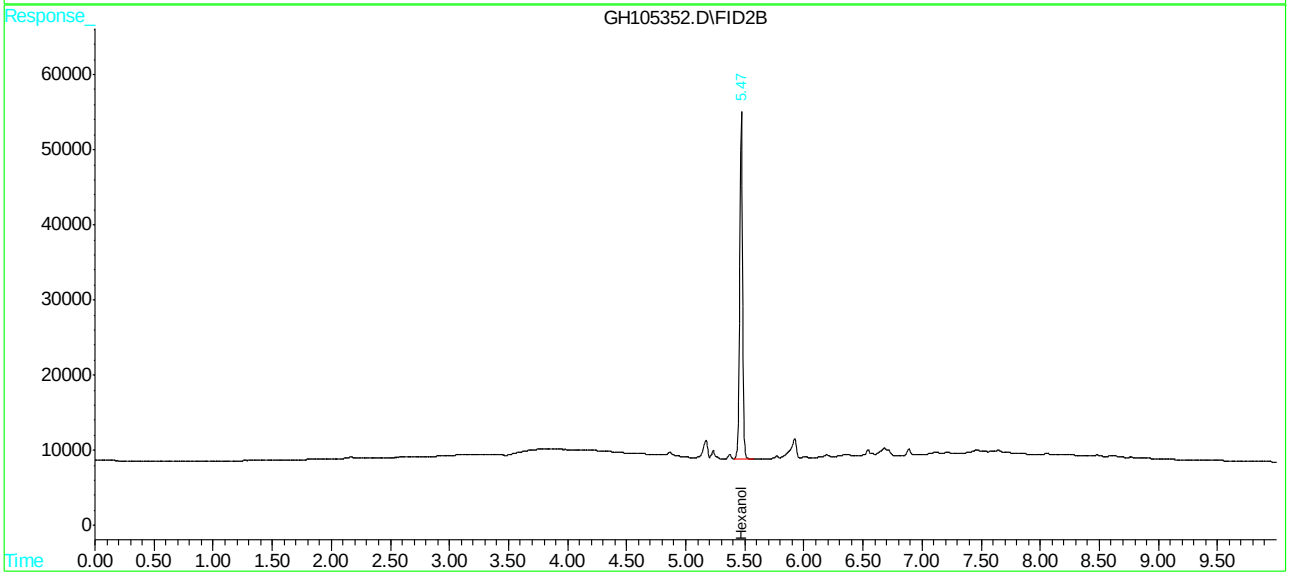
Data File : C:\HPCHEM\1\DATA\GH105352.D\FID1A.CH Vial: 20
Acq On : 3 Jun 2016 10:42 am Operator: XULIU
Sample : JC21347-2 Inst : GCGH
Misc : GC48540,GGH5310,5.0,,,,1 Multiplr: 1.00
IntFile : AUTOINT1.E

Data File : C:\HPCHEM\1\DATA\GH105352.D\FID2B.CH Vial: 20
Acq On : 3 Jun 2016 10:55 am Operator: XULIU
Sample : JC21347-2 Inst : GCGH
Misc : GC48540,GGH5310,5.0,,,,1 Multiplr: 1.00
IntFile : autoint2.e
Quant Time: Jun 6 10:12 2016 Quant Results File: MGH5288.RES

Quant Method : C:\HPCHEM\1\METHODS\MGH5288.M (Chemstation Integrator)
Title : METHOD SW846-8015C (DAI)
Last Update : Fri Jun 03 10:39:12 2016
Response via : Multiple Level Calibration
DataAcq Meth : MGH5288.M

Volume Inj. : 2ul
Signal #1 Phase : ZB-624 Signal #2 Phase: RTX-1
Signal #1 Info : 30mx0.53mmx3um Signal #2 Info : 30mx0.32mmx3um





Quantitation Report (QT Reviewed)

```
Data File : C:\HPCHEM\1\DATA\GH105346.D\FID1A.CH          Vial: 29
Acq On    :  2 Jun 2016   2:44 pm                     Operator: XULIU
Sample    : JC21347-3                                 Inst    : GCGH
Misc      : GC48539,GGH5309,5.0,,,,1                  Multiplr: 1.00
IntFile   : AUTOINT1.E

Data File : C:\HPCHEM\1\DATA\GH105346.D\FID2B.CH          Vial: 29
Acq On    :  2 Jun 2016   2:59 pm                     Operator: XULIU
Sample    : JC21347-3                                 Inst    : GCGH
Misc      : GC48539,GGH5309,5.0,,,,1                  Multiplr: 1.00
IntFile   : autoint2.e
Quant Time: Jun  2 15:11 2016  Quant Results File: MGH5288.RES

Quant Method : C:\HPCHEM\1\METHODS\MGH5288.M (Chemstation Integrator)
Title        : METHOD SW846-8015C (DAI)
Last Update  : Thu Jun 02 14:52:09 2016
Response via : Initial Calibration
DataAcq Meth : MGH5288.M

Volume Inj.     : 2ul
Signal #1 Phase : ZB-624            Signal #2 Phase: RTX-1
Signal #1 Info  : 30mx0.53mmx3um    Signal #2 Info : 30mx0.32mmx3um
```

Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
System Monitoring Compounds						
9) S Hexanol	5.56	5.45	239293	513886	3540.006	3307.976
Spiked Amount 5000.000			Recovery	=	70.80%	66.16%
Target Compounds						

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

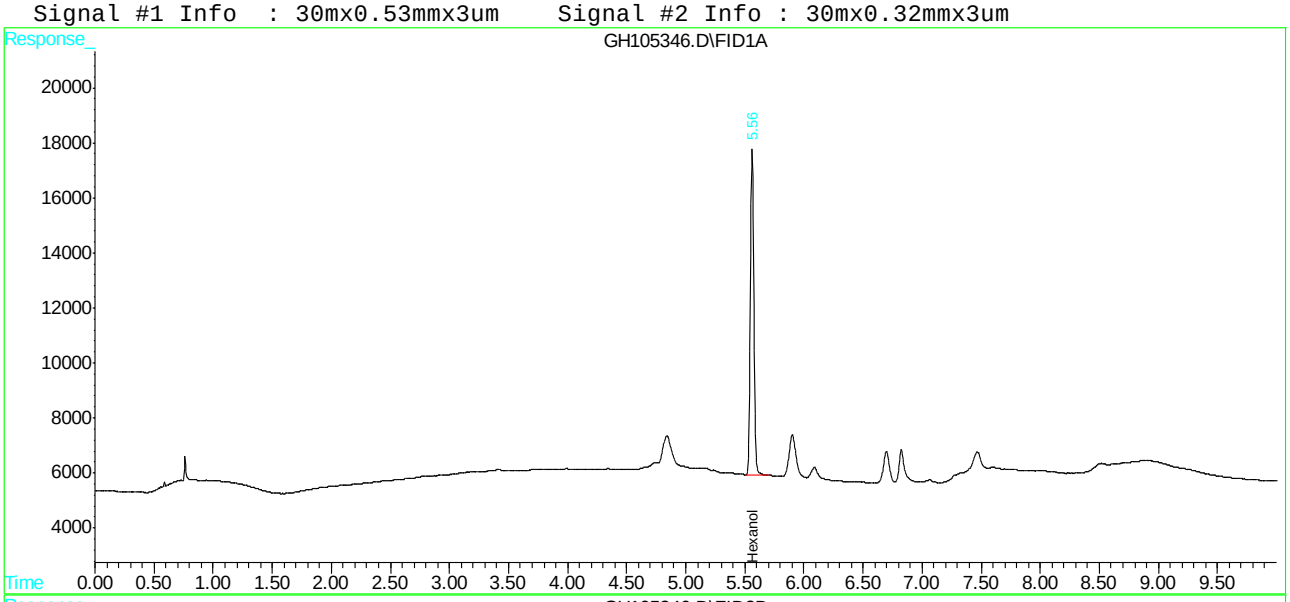
Quantitation Report (QT Reviewed)

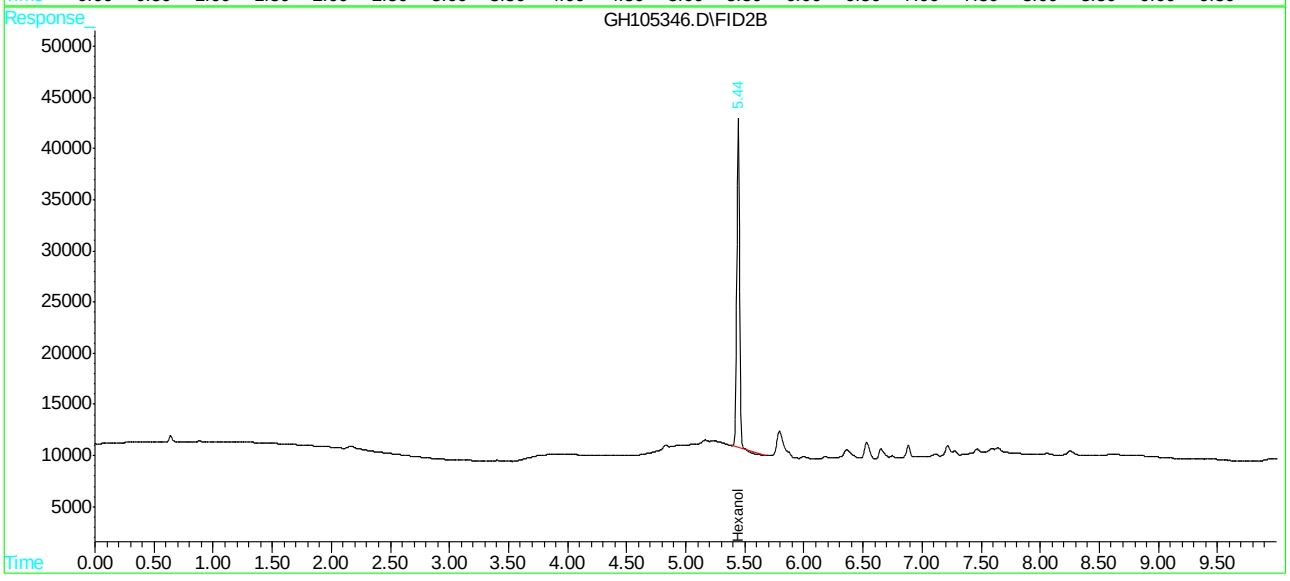
```
Data File : C:\HPCHEM\1\DATA\GH105346.D\FID1A.CH          Vial: 29
Acq On    :  2 Jun 2016   2:44 pm                     Operator: XULIU
Sample    : JC21347-3                                 Inst    : GCGH
Misc      : GC48539,GGH5309,5.0,,,,1                  Multiplr: 1.00
IntFile   : AUTOINT1.E

Data File : C:\HPCHEM\1\DATA\GH105346.D\FID2B.CH          Vial: 29
Acq On    :  2 Jun 2016   2:59 pm                     Operator: XULIU
Sample    : JC21347-3                                 Inst    : GCGH
Misc      : GC48539,GGH5309,5.0,,,,1                  Multiplr: 1.00
IntFile   : autoint2.e
Quant Time: Jun  2 15:11 2016  Quant Results File: MGH5288.RES

Quant Method : C:\HPCHEM\1\METHODS\MGH5288.M (Chemstation Integrator)
Title        : METHOD SW846-8015C (DAI)
Last Update  : Thu Jun 02 14:52:09 2016
Response via : Multiple Level Calibration
DataAcq Meth : MGH5288.M

Volume Inj.     : 2ul
Signal #1 Phase : ZB-624            Signal #2 Phase: RTX-1
Signal #1 Info  : 30mx0.53mmx3um    Signal #2 Info : 30mx0.32mmx3um
```





Quantitation Report (QT Reviewed)

```
Data File : C:\HPCHEM\1\DATA\GH105341.D\FID1A.CH          Vial: 91
Acq On    :  2 Jun 2016   1:23 pm                     Operator: XULIU
Sample    : MB1                                       Inst    : GCGH
Misc      : GC48539,GGH5309,5.0,,,,1                  Multiplr: 1.00
IntFile   : AUTOINT1.E

Data File : C:\HPCHEM\1\DATA\GH105341.D\FID2B.CH          Vial: 91
Acq On    :  2 Jun 2016   1:37 pm                     Operator: XULIU
Sample    : MB1                                       Inst    : GCGH
Misc      : GC48539,GGH5309,5.0,,,,1                  Multiplr: 1.00
IntFile   : autoint2.e
Quant Time: Jun  2 14:43 2016  Quant Results File: MGH5288.RES

Quant Method : C:\HPCHEM\1\METHODS\MGH5288.M (Chemstation Integrator)
Title        : METHOD SW846-8015C (DAI)
Last Update  : Thu Jun 02 14:43:15 2016
Response via : Initial Calibration
DataAcq Meth : MGH5288.M

Volume Inj.     : 2ul
Signal #1 Phase : ZB-624            Signal #2 Phase: RTX-1
Signal #1 Info  : 30mx0.53mmx3um    Signal #2 Info : 30mx0.32mmx3um

 Compound          RT#1   RT#2    Resp#1   Resp#2     PPB       PPB
---------------------------------------------------------------------

System Monitoring Compounds
9) S   Hexanol           5.57   5.44    266635   587880 3944.493  3784.287
 Spiked Amount   5000.000                  Recovery     =   78.89%    75.69%

Target Compounds
```

9.2.1

9

```
---------------------------------------------------------------------------
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40%  (m)=manual int.
GH105341.D  MGH5288.M      Thu Jun 02 14:53:25 2016      GCGH
```


SGS ACCUTEST JC21347

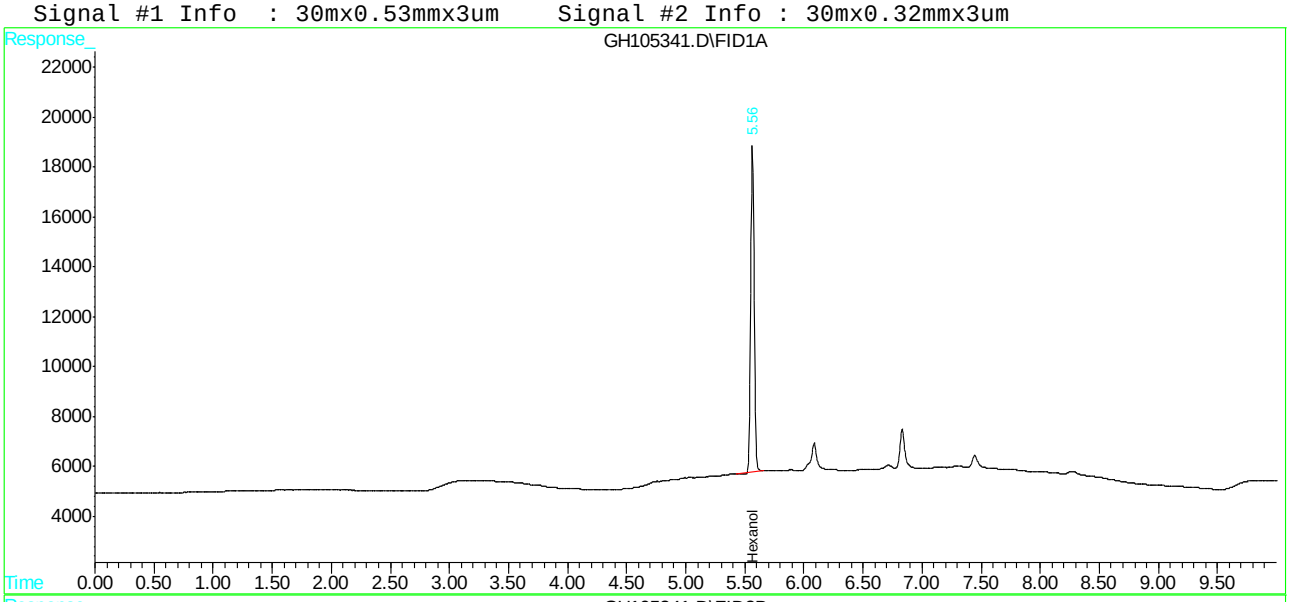
Quantitation Report (QT Reviewed)

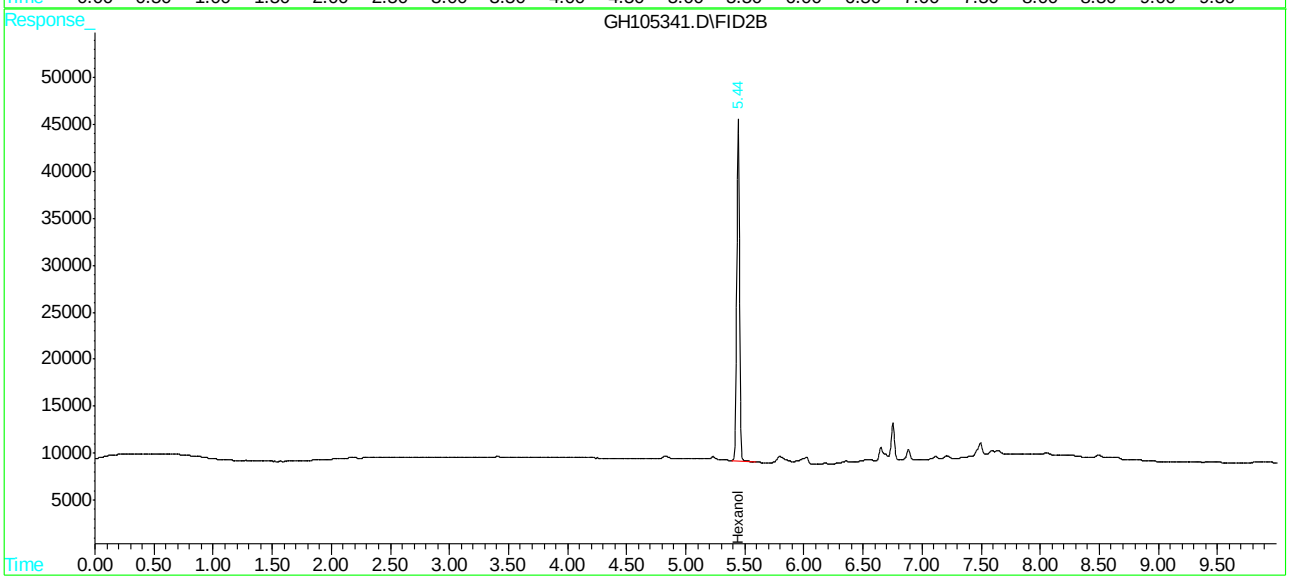
```
Data File : C:\HPCHEM\1\DATA\GH105341.D\FID1A.CH          Vial: 91
Acq On    :  2 Jun 2016   1:23 pm                     Operator: XULIU
Sample    : MB1                                       Inst    : GCGH
Misc      : GC48539,GGH5309,5.0,,,,1                  Multiplr: 1.00
IntFile   : AUTOINT1.E

Data File : C:\HPCHEM\1\DATA\GH105341.D\FID2B.CH          Vial: 91
Acq On    :  2 Jun 2016   1:37 pm                     Operator: XULIU
Sample    : MB1                                       Inst    : GCGH
Misc      : GC48539,GGH5309,5.0,,,,1                  Multiplr: 1.00
IntFile   : autoint2.e
Quant Time: Jun  2 14:43 2016  Quant Results File: MGH5288.RES

Quant Method : C:\HPCHEM\1\METHODS\MGH5288.M (Chemstation Integrator)
Title        : METHOD SW846-8015C (DAI)
Last Update  : Thu Jun 02 14:43:15 2016
Response via : Multiple Level Calibration
DataAcq Meth : MGH5288.M

Volume Inj.     : 2ul
Signal #1 Phase : ZB-624            Signal #2 Phase: RTX-1
Signal #1 Info  : 30mx0.53mmx3um    Signal #2 Info : 30mx0.32mmx3um
```





Quantitation Report (QT Reviewed)

```
Data File : C:\HPCHEM\1\DATA\GH105350.D\FID1A.CH          Vial: 93
Acq On    :  3 Jun 2016   9:34 am                     Operator: XULIU
Sample    : MB1                                       Inst    : GCGH
Misc      : GC48540,GGH5310,5.0,,,,1                  Multiplr: 1.00
IntFile   : AUTOINT1.E

Data File : C:\HPCHEM\1\DATA\GH105350.D\FID2B.CH          Vial: 93
Acq On    :  3 Jun 2016   9:49 am                     Operator: XULIU
Sample    : MB1                                       Inst    : GCGH
Misc      : GC48540,GGH5310,5.0,,,,1                  Multiplr: 1.00
IntFile   : autoint2.e
Quant Time: Jun  3 10:29 2016  Quant Results File: MGH5288.RES

Quant Method : C:\HPCHEM\1\METHODS\MGH5288.M (Chemstation Integrator)
Title        : METHOD SW846-8015C (DAI)
Last Update  : Fri Jun 03 10:28:43 2016
Response via : Initial Calibration
DataAcq Meth : MGH5288.M

Volume Inj.     : 2ul
Signal #1 Phase : ZB-624            Signal #2 Phase: RTX-1
Signal #1 Info  : 30mx0.53mmx3um    Signal #2 Info : 30mx0.32mmx3um

 Compound          RT#1   RT#2    Resp#1   Resp#2     PPB       PPB
---------------------------------------------------------------------

System Monitoring Compounds
9) S   Hexanol           5.57   5.47    268839   642396 3977.096  4135.216
 Spiked Amount   5000.000                  Recovery     =   79.54%    82.70%

Target Compounds
```

9.2.2

9

```
---------------------------------------------------------------------------
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40%  (m)=manual int.
GH105350.D  MGH5288.M      Fri Jun 03 10:40:47 2016      GCGH
```


SGS ACCUTEST JC21347

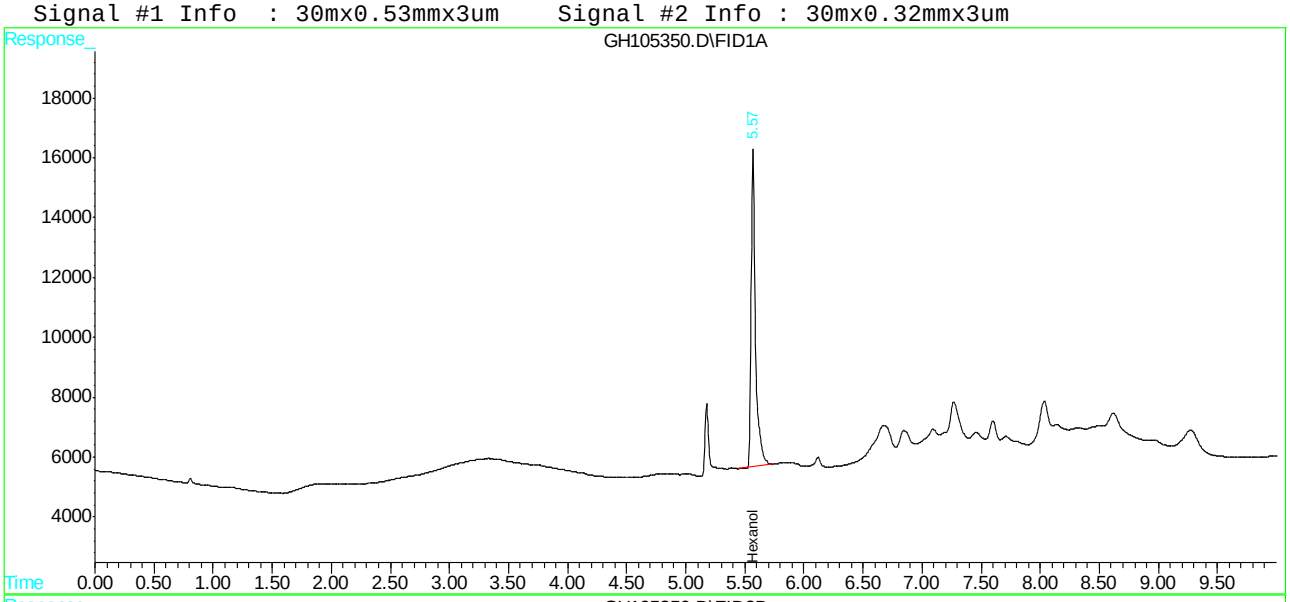
Quantitation Report (QT Reviewed)

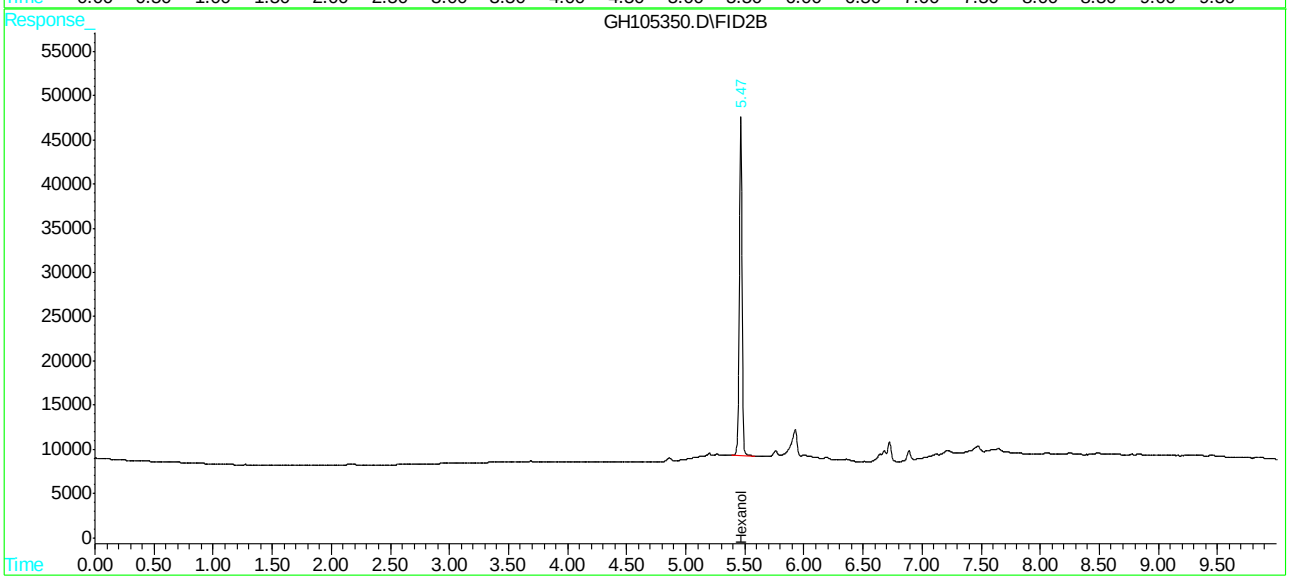
```
Data File : C:\HPCHEM\1\DATA\GH105350.D\FID1A.CH          Vial: 93
Acq On    :  3 Jun 2016   9:34 am                     Operator: XULIU
Sample    : MB1                                       Inst    : GCGH
Misc      : GC48540,GGH5310,5.0,,,,1                  Multiplr: 1.00
IntFile   : AUTOINT1.E

Data File : C:\HPCHEM\1\DATA\GH105350.D\FID2B.CH          Vial: 93
Acq On    :  3 Jun 2016   9:49 am                     Operator: XULIU
Sample    : MB1                                       Inst    : GCGH
Misc      : GC48540,GGH5310,5.0,,,,1                  Multiplr: 1.00
IntFile   : autoint2.e
Quant Time: Jun  3 10:29 2016  Quant Results File: MGH5288.RES

Quant Method : C:\HPCHEM\1\METHODS\MGH5288.M (Chemstation Integrator)
Title        : METHOD SW846-8015C (DAI)
Last Update  : Fri Jun 03 10:28:43 2016
Response via : Multiple Level Calibration
DataAcq Meth : MGH5288.M

Volume Inj.     : 2ul
Signal #1 Phase : ZB-624            Signal #2 Phase: RTX-1
Signal #1 Info  : 30mx0.53mmx3um    Signal #2 Info : 30mx0.32mmx3um
```





Quantitation Report (QT Reviewed)

```
Data File : C:\HPCHEM\1\DATA\GH105342.D\FID1A.CH          Vial: 92
Acq On    :  2 Jun 2016   1:37 pm                     Operator: XULIU
Sample    : BS                                        Inst    : GCGH
Misc      : GC48539,GGH5309,5.0,,,,1                  Multiplr: 1.00
IntFile   : AUTOINT1.E

Data File : C:\HPCHEM\1\DATA\GH105342.D\FID2B.CH          Vial: 92
Acq On    :  2 Jun 2016   1:54 pm                     Operator: XULIU
Sample    : BS                                        Inst    : GCGH
Misc      : GC48539,GGH5309,5.0,,,,1                  Multiplr: 1.00
IntFile   : autoint2.e
Quant Time: Jun  2 14:44 2016  Quant Results File: MGH5288.RES

Quant Method : C:\HPCHEM\1\METHODS\MGH5288.M (Chemstation Integrator)
Title        : METHOD SW846-8015C (DAI)
Last Update  : Thu Jun 02 14:43:15 2016
Response via : Initial Calibration
DataAcq Meth : MGH5288.M

Volume Inj.     : 2ul
Signal #1 Phase : ZB-624            Signal #2 Phase: RTX-1
Signal #1 Info  : 30mx0.53mmx3um    Signal #2 Info : 30mx0.32mmx3um
```

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	System Monitoring Compounds						
9) S	Hexanol	5.56	5.45	323541	727814	4786.340	4685.069
Spiked Amount	5000.000			Recovery	=	95.73%	93.70%
	Target Compounds						
1)	Methanol	1.12	0.89	76944	162221	4977.359	5029.456
2)	Ethanol	1.45	1.14	113582	227005	5993.724	5694.934
3)	Tert-Butyl Alcoh	2.01	1.64	167047	373296	5895.461	5871.005
4)	1-Propanol	2.51	1.98	147263	297168	6053.675	5844.884
5)	2-Propanol	1.75	1.40	117953	255462	5918.054	5641.928
6)	Isobutanol	3.31	2.93	178950	346794	6219.806	5664.607
7)	1-Butanol	3.76	3.40	165990	341160	5811.829	5155.805
8)	2-Butanol	2.94	2.55	152560	314267	5951.391	5789.270

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

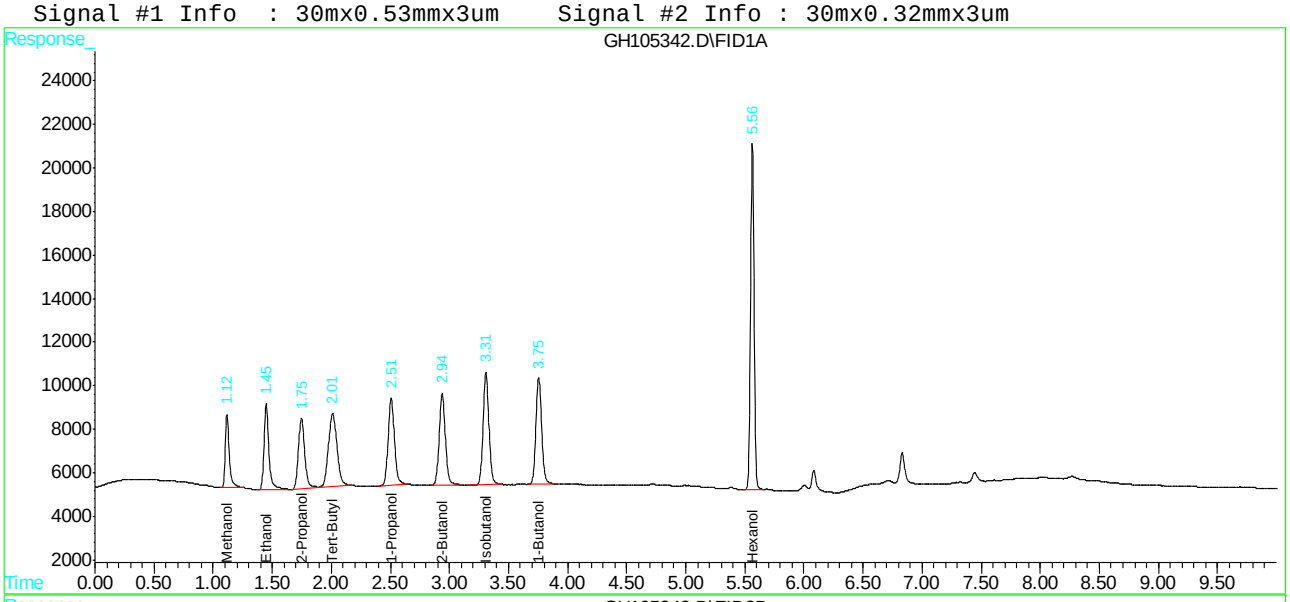
Quantitation Report (QT Reviewed)

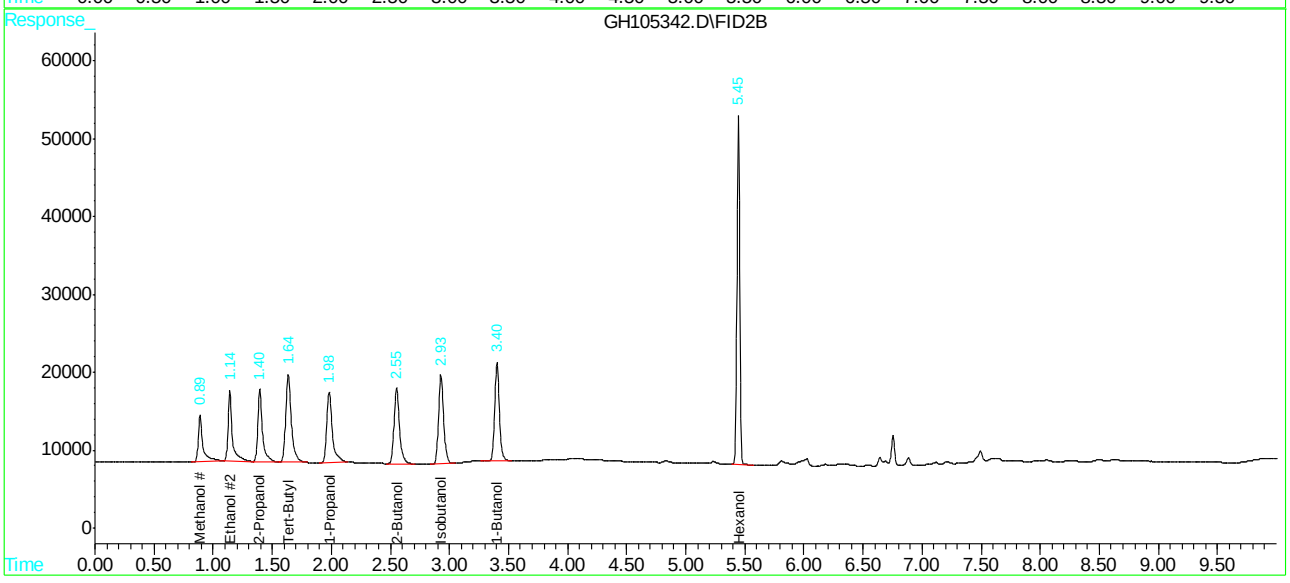
```
Data File : C:\HPCHEM\1\DATA\GH105342.D\FID1A.CH          Vial: 92
Acq On    :  2 Jun 2016   1:37 pm                     Operator: XULIU
Sample    : BS                                        Inst    : GCGH
Misc      : GC48539,GGH5309,5.0,,,,1                  Multiplr: 1.00
IntFile   : AUTOINT1.E

Data File : C:\HPCHEM\1\DATA\GH105342.D\FID2B.CH          Vial: 92
Acq On    :  2 Jun 2016   1:54 pm                     Operator: XULIU
Sample    : BS                                        Inst    : GCGH
Misc      : GC48539,GGH5309,5.0,,,,1                  Multiplr: 1.00
IntFile   : autoint2.e
Quant Time: Jun  2 14:44 2016  Quant Results File: MGH5288.RES

Quant Method : C:\HPCHEM\1\METHODS\MGH5288.M (Chemstation Integrator)
Title        : METHOD SW846-8015C (DAI)
Last Update  : Thu Jun 02 14:43:15 2016
Response via : Multiple Level Calibration
DataAcq Meth : MGH5288.M

Volume Inj.     : 2ul
Signal #1 Phase : ZB-624            Signal #2 Phase: RTX-1
Signal #1 Info  : 30mx0.53mmx3um    Signal #2 Info : 30mx0.32mmx3um
```





Quantitation Report (QT Reviewed)

```
Data File : C:\HPCHEM\1\DATA\GH105351.D\FID1A.CH          Vial: 94
Acq On    :  3 Jun 2016  10:10 am                     Operator: XULIU
Sample    : BS                                        Inst    : GCGH
Misc      : GC48540,GGH5310,5.0,,,,1                  Multiplr: 1.00
IntFile   : AUTOINT1.E

Data File : C:\HPCHEM\1\DATA\GH105351.D\FID2B.CH          Vial: 94
Acq On    :  3 Jun 2016  10:25 am                     Operator: XULIU
Sample    : BS                                        Inst    : GCGH
Misc      : GC48540,GGH5310,5.0,,,,1                  Multiplr: 1.00
IntFile   : autoint2.e
Quant Time: Jun  3 10:39 2016  Quant Results File: MGH5288.RES

Quant Method : C:\HPCHEM\1\METHODS\MGH5288.M (Chemstation Integrator)
Title        : METHOD SW846-8015C (DAI)
Last Update  : Fri Jun 03 10:39:12 2016
Response via : Initial Calibration
DataAcq Meth : MGH5288.M

Volume Inj.     : 2ul
Signal #1 Phase : ZB-624            Signal #2 Phase: RTX-1
Signal #1 Info  : 30mx0.53mmx3um    Signal #2 Info : 30mx0.32mmx3um
```

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	System Monitoring Compounds						
9) S	Hexanol	5.57	5.47	322121	722159	4765.339	4648.665
Spiked Amount	5000.000			Recovery	=	95.31%	92.97%
	Target Compounds						
1)	Methanol	1.12	0.88	78211	172834	5059.354	5358.483
2)	Ethanol	1.45	1.14	114696	232591	6052.507	5835.074
3)	Tert-Butyl Alcoh	2.01	1.63	170363	379478	6012.481	5968.236
4)	1-Propanol	2.51	1.98	146897	305289	6038.626	6004.596
5)	2-Propanol	1.75	1.39	122782	259703	6160.345	5735.600
6)	Isobutanol	3.31	2.92	177747	349928	6178.006	5715.804
7)	1-Butanol	3.76	3.40	164648	331040	5764.857	5002.872
8)	2-Butanol	2.94	2.55	151076	312487	5893.470	5756.470

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

SGS ACCUTEST JC21347

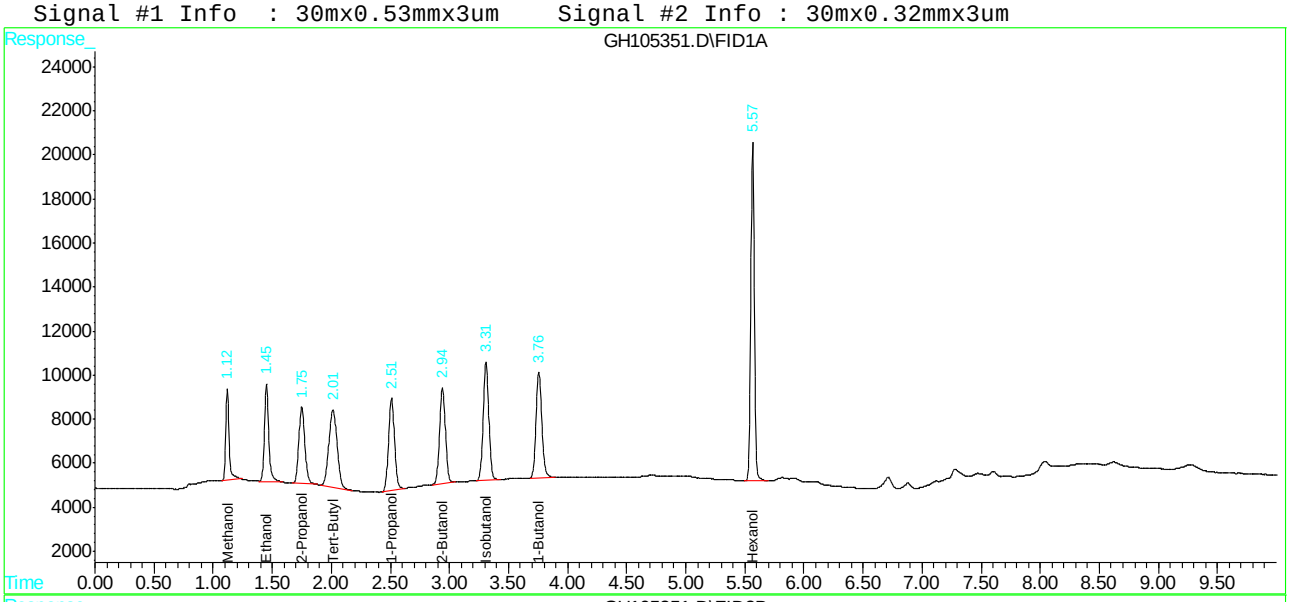
Quantitation Report (QT Reviewed)

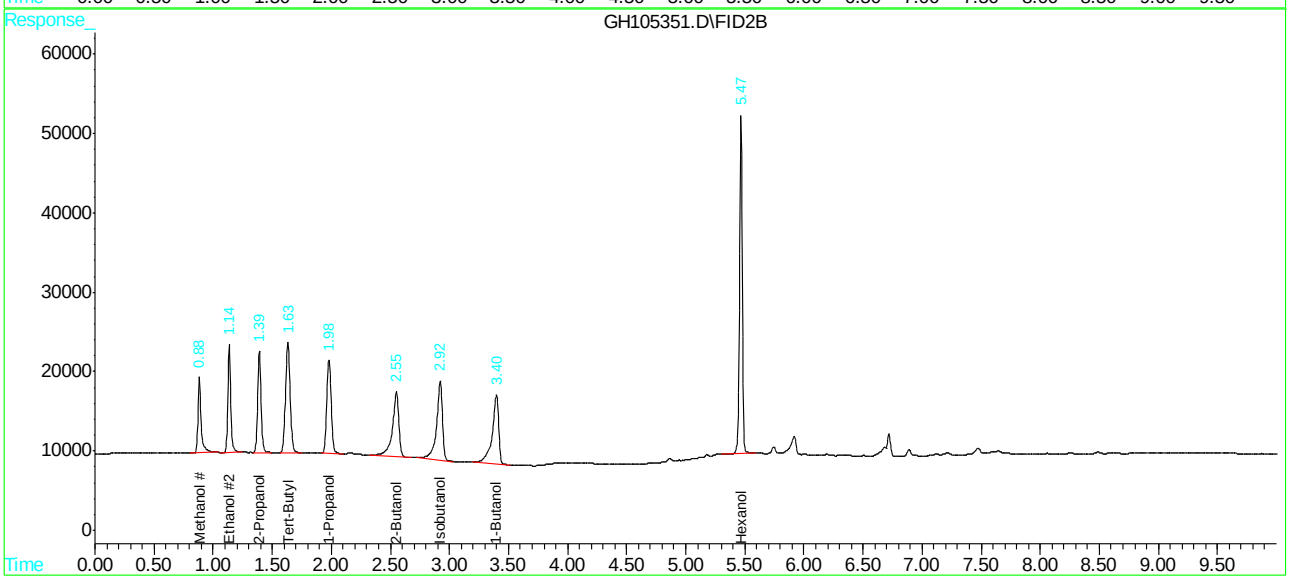
```
Data File : C:\HPCHEM\1\DATA\GH105351.D\FID1A.CH          Vial: 94
Acq On    :  3 Jun 2016  10:10 am                     Operator: XULIU
Sample    : BS                                        Inst    : GCGH
Misc      : GC48540,GGH5310,5.0,,,,1                  Multiplr: 1.00
IntFile   : AUTOINT1.E

Data File : C:\HPCHEM\1\DATA\GH105351.D\FID2B.CH          Vial: 94
Acq On    :  3 Jun 2016  10:25 am                     Operator: XULIU
Sample    : BS                                        Inst    : GCGH
Misc      : GC48540,GGH5310,5.0,,,,1                  Multiplr: 1.00
IntFile   : autoint2.e
Quant Time: Jun  3 10:39 2016  Quant Results File: MGH5288.RES

Quant Method : C:\HPCHEM\1\METHODS\MGH5288.M (Chemstation Integrator)
Title        : METHOD SW846-8015C (DAI)
Last Update  : Fri Jun 03 10:39:12 2016
Response via : Multiple Level Calibration
DataAcq Meth : MGH5288.M

Volume Inj.     : 2ul
Signal #1 Phase : ZB-624            Signal #2 Phase: RTX-1
Signal #1 Info  : 30mx0.53mmx3um    Signal #2 Info : 30mx0.32mmx3um
```





Quantitation Report (QT Reviewed)

```
Data File : C:\HPCHEM\1\DATA\GH105344.D\FID1A.CH          Vial: 27
Acq On    :  2 Jun 2016   2:08 pm                     Operator: XULIU
Sample    : JC21347-1MS                               Inst    : GCGH
Misc      : GC48539,GGH5309,5.0,,,,1                  Multiplr: 1.00
IntFile   : AUTOINT1.E

Data File : C:\HPCHEM\1\DATA\GH105344.D\FID2B.CH          Vial: 27
Acq On    :  2 Jun 2016   2:30 pm                     Operator: XULIU
Sample    : JC21347-1MS                               Inst    : GCGH
Misc      : GC48539,GGH5309,5.0,,,,1                  Multiplr: 1.00
IntFile   : autoint2.e
Quant Time: Jun  2 14:48 2016  Quant Results File: MGH5288.RES

Quant Method : C:\HPCHEM\1\METHODS\MGH5288.M (Chemstation Integrator)
Title        : METHOD SW846-8015C (DAI)
Last Update  : Thu Jun 02 14:48:18 2016
Response via : Initial Calibration
DataAcq Meth : MGH5288.M

Volume Inj.     : 2ul
Signal #1 Phase : ZB-624            Signal #2 Phase: RTX-1
Signal #1 Info  : 30mx0.53mmx3um    Signal #2 Info : 30mx0.32mmx3um
```

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	System Monitoring Compounds						
9) S	Hexanol	5.56	5.45	330267	733879	4885.847	4724.113
Spiked Amount	5000.000			Recovery	=	97.72%	94.48%
	Target Compounds						
1)	Methanol	1.12	0.90	73651	141966	4764.361	4401.474
2)	Ethanol	1.45	1.15	100565	197748	5306.821	4960.941
3)	Tert-Butyl Alcoh	2.01	1.64	163278	366934	5762.458	5770.947
4)	1-Propanol	2.51	1.99	131307	253158	5397.781	4979.261
5)	2-Propanol	1.75	1.40	99059	223664	4970.108	4939.660
6)	Isobutanol	3.31	2.93	163549	318337	5684.521	5199.780
7)	1-Butanol	3.75	3.41	152099	299053	5325.480	4519.458
8)	2-Butanol	2.94	2.56	138048	284644	5385.260	5243.562

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

SGS ACCUTEST JC21347

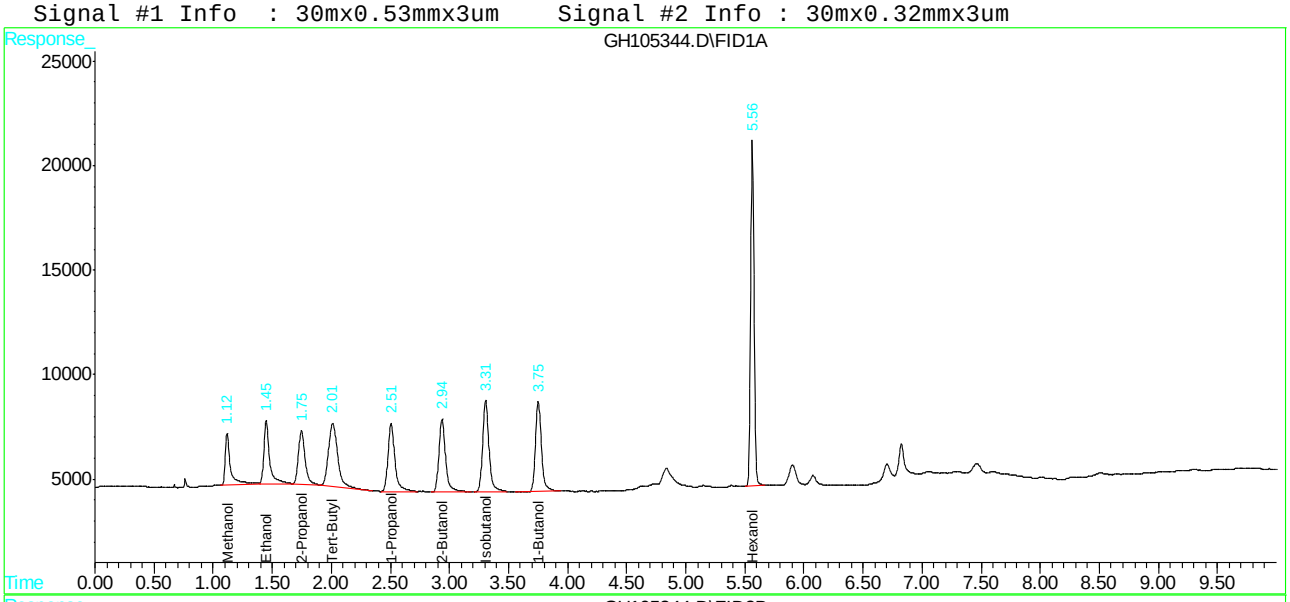
Quantitation Report (QT Reviewed)

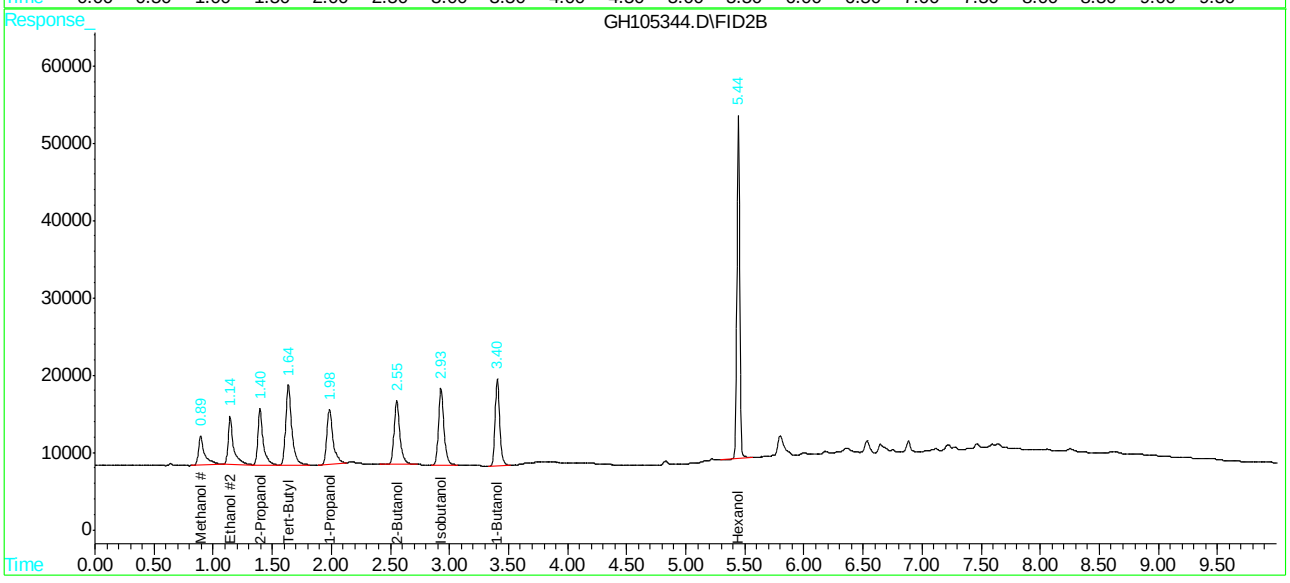
```
Data File : C:\HPCHEM\1\DATA\GH105344.D\FID1A.CH          Vial: 27
Acq On    :  2 Jun 2016   2:08 pm                     Operator: XULIU
Sample    : JC21347-1MS                               Inst    : GCGH
Misc      : GC48539,GGH5309,5.0,,,,1                  Multiplr: 1.00
IntFile   : AUTOINT1.E

Data File : C:\HPCHEM\1\DATA\GH105344.D\FID2B.CH          Vial: 27
Acq On    :  2 Jun 2016   2:30 pm                     Operator: XULIU
Sample    : JC21347-1MS                               Inst    : GCGH
Misc      : GC48539,GGH5309,5.0,,,,1                  Multiplr: 1.00
IntFile   : autoint2.e
Quant Time: Jun  2 14:48 2016  Quant Results File: MGH5288.RES

Quant Method : C:\HPCHEM\1\METHODS\MGH5288.M (Chemstation Integrator)
Title        : METHOD SW846-8015C (DAI)
Last Update  : Thu Jun 02 14:48:18 2016
Response via : Multiple Level Calibration
DataAcq Meth : MGH5288.M

Volume Inj.     : 2ul
Signal #1 Phase : ZB-624            Signal #2 Phase: RTX-1
Signal #1 Info  : 30mx0.53mmx3um    Signal #2 Info : 30mx0.32mmx3um
```





Quantitation Report (QT Reviewed)

```
Data File : C:\HPCHEM\1\DATA\GH105345.D\FID1A.CH          Vial: 28
Acq On    :  2 Jun 2016   2:30 pm                     Operator: XULIU
Sample    : JC21347-1MSD                              Inst    : GCGH
Misc      : GC48539,GGH5309,5.0,,,,1                  Multiplr: 1.00
IntFile   : AUTOINT1.E

Data File : C:\HPCHEM\1\DATA\GH105345.D\FID2B.CH          Vial: 28
Acq On    :  2 Jun 2016   2:44 pm                     Operator: XULIU
Sample    : JC21347-1MSD                              Inst    : GCGH
Misc      : GC48539,GGH5309,5.0,,,,1                  Multiplr: 1.00
IntFile   : autoint2.e
Quant Time: Jun  2 14:52 2016  Quant Results File: MGH5288.RES

Quant Method : C:\HPCHEM\1\METHODS\MGH5288.M (Chemstation Integrator)
Title        : METHOD SW846-8015C (DAI)
Last Update  : Thu Jun 02 14:52:09 2016
Response via : Initial Calibration
DataAcq Meth : MGH5288.M

Volume Inj.     : 2ul
Signal #1 Phase : ZB-624            Signal #2 Phase: RTX-1
Signal #1 Info  : 30mx0.53mmx3um    Signal #2 Info : 30mx0.32mmx3um
```

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	System Monitoring Compounds						
9) S	Hexanol	5.56	5.45	337273	754333	4989.485	4855.778
	Spiked Amount 5000.000			Recovery	=	99.79%	97.12%
	Target Compounds						
1)	Methanol	1.12	0.89	72329	152953	4678.834	4742.103
2)	Ethanol	1.45	1.14	96320	211633	5082.816	5309.285
3)	Tert-Butyl Alcoh	2.01	1.64	174661	369197	6164.173	5806.539
4)	1-Propanol	2.50	1.98	138707	248975	5701.960	4896.987
5)	2-Propanol	1.75	1.40	108499	223444	5443.703	4934.819
6)	Isobutanol	3.30	2.93	164613	334502	5721.509	5463.827
7)	1-Butanol	3.75	3.40	171901	320027	6018.801	4836.443
8)	2-Butanol	2.94	2.55	136793	292727	5336.282	5392.477

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

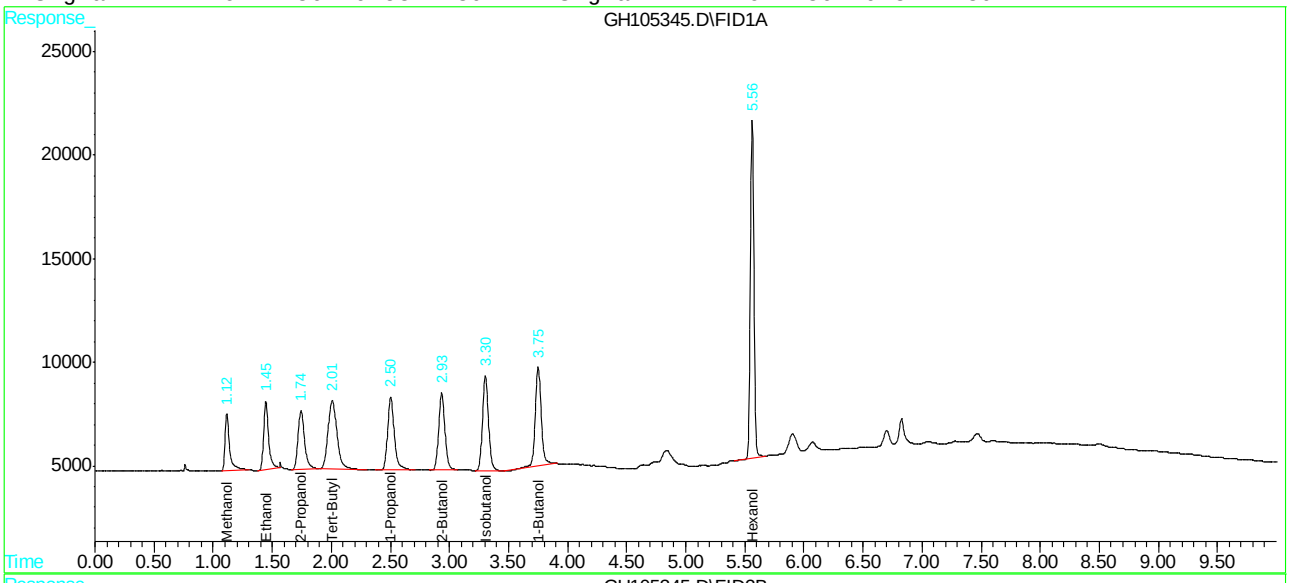
Quantitation Report (QT Reviewed)

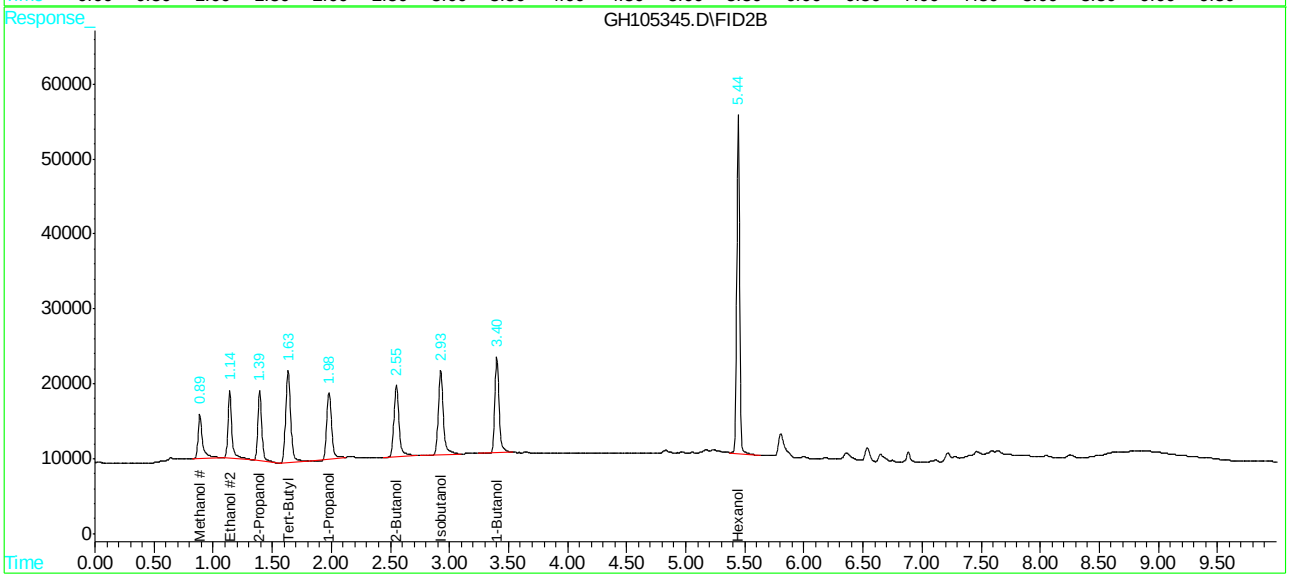
```
Data File : C:\HPCHEM\1\DATA\GH105345.D\FID1A.CH          Vial: 28
Acq On    :  2 Jun 2016   2:30 pm                     Operator: XULIU
Sample    : JC21347-1MSD                              Inst    : GCGH
Misc      : GC48539,GGH5309,5.0,,,,1                  Multiplr: 1.00
IntFile   : AUTOINT1.E

Data File : C:\HPCHEM\1\DATA\GH105345.D\FID2B.CH          Vial: 28
Acq On    :  2 Jun 2016   2:44 pm                     Operator: XULIU
Sample    : JC21347-1MSD                              Inst    : GCGH
Misc      : GC48539,GGH5309,5.0,,,,1                  Multiplr: 1.00
IntFile   : autoint2.e
Quant Time: Jun  2 14:52 2016  Quant Results File: MGH5288.RES

Quant Method : C:\HPCHEM\1\METHODS\MGH5288.M (Chemstation Integrator)
Title        : METHOD SW846-8015C (DAI)
Last Update  : Thu Jun 02 14:52:09 2016
Response via : Multiple Level Calibration
DataAcq Meth : MGH5288.M

Volume Inj.     : 2ul
Signal #1 Phase : ZB-624            Signal #2 Phase: RTX-1
Signal #1 Info  : 30mx0.53mmx3um    Signal #2 Info : 30mx0.32mmx3um
```





SGS ACCUTEST JC21347

Quantitation Report (QT Reviewed)

```
Data File : C:\HPCHEM\1\DATA\GH105353.D\FID1A.CH          Vial: 21
Acq On    :  3 Jun 2016  10:55 am                     Operator: XULIU
Sample    : JC21347-2MS                               Inst    : GCGH
Misc      : GC48540,GGH5310,5.0,,,,1                  Multiplr: 1.00
IntFile   : AUTOINT1.E

Data File : C:\HPCHEM\1\DATA\GH105353.D\FID2B.CH          Vial: 21
Acq On    :  3 Jun 2016  11:13 am                     Operator: XULIU
Sample    : JC21347-2MS                               Inst    : GCGH
Misc      : GC48540,GGH5310,5.0,,,,1                  Multiplr: 1.00
IntFile   : autoint2.e
Quant Time: Jun  3 13:26 2016  Quant Results File: MGH5288.RES

Quant Method : C:\HPCHEM\1\METHODS\MGH5288.M (Chemstation Integrator)
Title        : METHOD SW846-8015C (DAI)
Last Update  : Fri Jun 03 10:39:12 2016
Response via : Initial Calibration
DataAcq Meth : MGH5288.M

Volume Inj.     : 2ul
Signal #1 Phase : ZB-624            Signal #2 Phase: RTX-1
Signal #1 Info  : 30mx0.53mmx3um    Signal #2 Info : 30mx0.32mmx3um
```

Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
System Monitoring Compounds						
9) S Hexanol	5.57	5.47	288524	661058	4268.315	4255.351
Spiked Amount 5000.000			Recovery	=	85.37%	85.11%
Target Compounds						
1) Methanol	1.12	0.89	66664	153195	4312.381	4749.609
2) Ethanol	1.45	1.14	94182	199542	4969.964	5005.947
3) Tert-Butyl Alcoh	2.02	1.64	148088	344341	5226.357	5415.627
4) 1-Propanol	2.51	1.99	125930	261587	5176.715	5145.048
5) 2-Propanol	1.75	1.40	101014	230570	5068.185	5092.185
6) Isobutanol	3.31	2.93	160469	320954	5577.473	5242.540
7) 1-Butanol	3.76	3.40	174050	312870	6094.044	4728.271
8) 2-Butanol	2.94	2.56	135626	283188	5290.768	5216.741

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

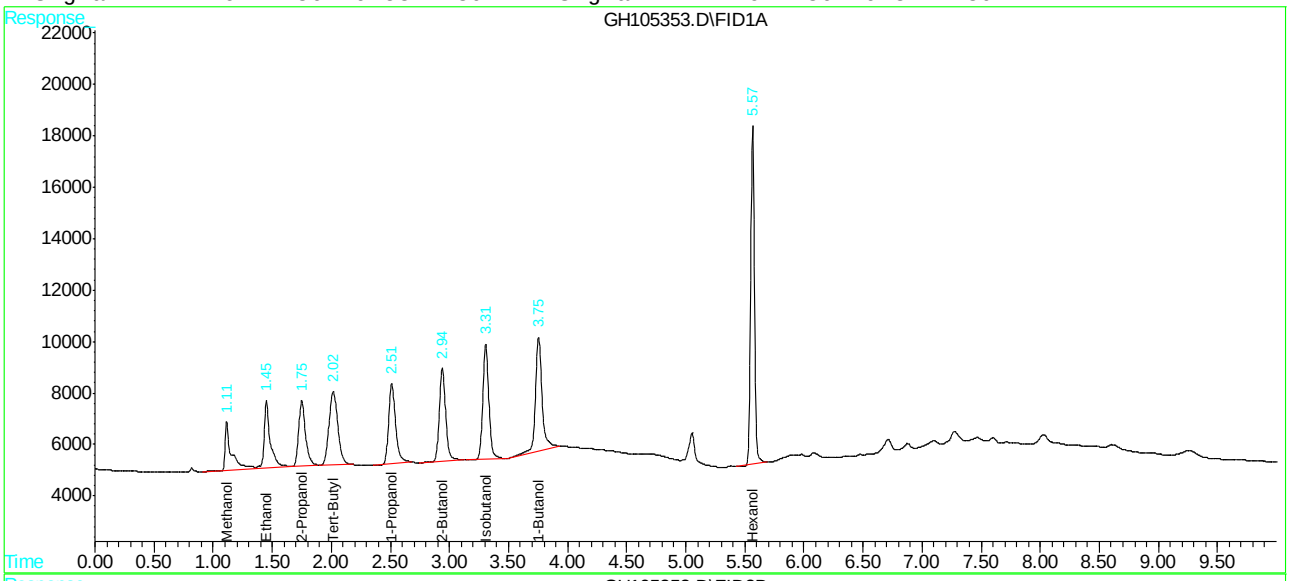
Quantitation Report (QT Reviewed)

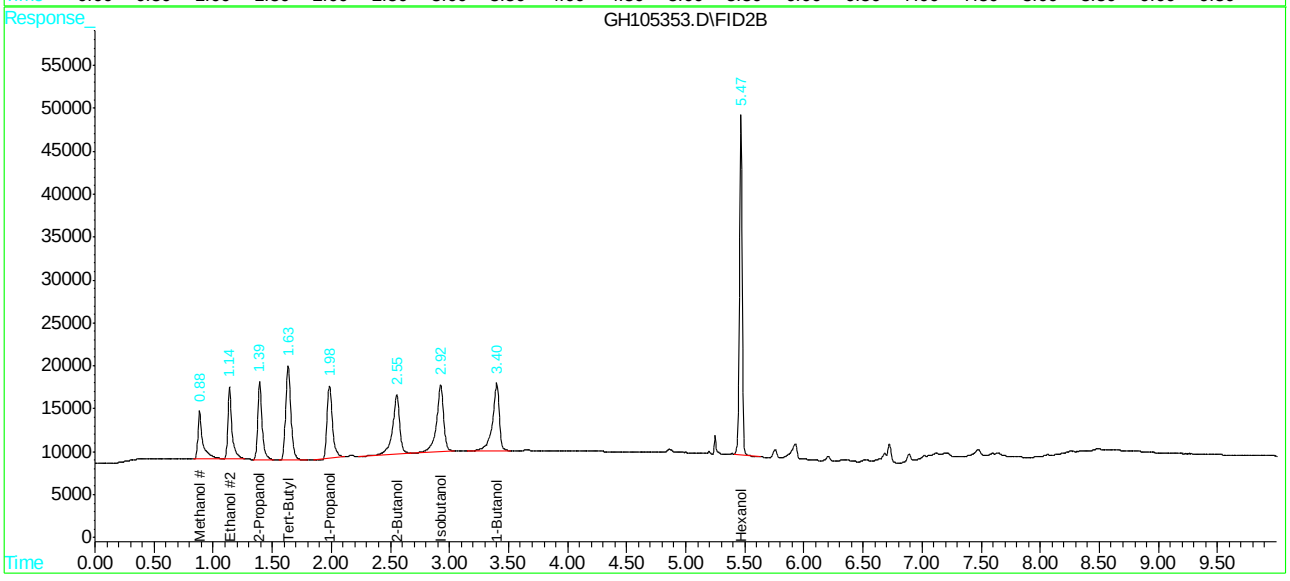
```
Data File : C:\HPCHEM\1\DATA\GH105353.D\FID1A.CH          Vial: 21
Acq On    :  3 Jun 2016  10:55 am                     Operator: XULIU
Sample    : JC21347-2MS                               Inst    : GCGH
Misc      : GC48540,GGH5310,5.0,,,,1                  Multiplr: 1.00
IntFile   : AUTOINT1.E

Data File : C:\HPCHEM\1\DATA\GH105353.D\FID2B.CH          Vial: 21
Acq On    :  3 Jun 2016  11:13 am                     Operator: XULIU
Sample    : JC21347-2MS                               Inst    : GCGH
Misc      : GC48540,GGH5310,5.0,,,,1                  Multiplr: 1.00
IntFile   : autoint2.e
Quant Time: Jun  3 13:26 2016  Quant Results File: MGH5288.RES

Quant Method : C:\HPCHEM\1\METHODS\MGH5288.M (Chemstation Integrator)
Title        : METHOD SW846-8015C (DAI)
Last Update  : Fri Jun 03 10:39:12 2016
Response via : Multiple Level Calibration
DataAcq Meth : MGH5288.M

Volume Inj.     : 2ul
Signal #1 Phase : ZB-624            Signal #2 Phase: RTX-1
Signal #1 Info  : 30mx0.53mmx3um    Signal #2 Info : 30mx0.32mmx3um
```





Quantitation Report (QT Reviewed)

```
Data File : C:\HPCHEM\1\DATA\GH105354.D\FID1A.CH          Vial: 22
Acq On    :  3 Jun 2016  11:13 am                     Operator: XULIU
Sample    : JC21347-2MSD                              Inst    : GCGH
Misc      : GC48540,GGH5310,5.0,,,,1                  Multiplr: 1.00
IntFile   : AUTOINT1.E

Data File : C:\HPCHEM\1\DATA\GH105354.D\FID2B.CH          Vial: 22
Acq On    :  3 Jun 2016  11:27 am                     Operator: XULIU
Sample    : JC21347-2MSD                              Inst    : GCGH
Misc      : GC48540,GGH5310,5.0,,,,1                  Multiplr: 1.00
IntFile   : autoint2.e
Quant Time: Jun  3 13:32 2016  Quant Results File: MGH5288.RES

Quant Method : C:\HPCHEM\1\METHODS\MGH5288.M (Chemstation Integrator)
Title        : METHOD SW846-8015C (DAI)
Last Update  : Fri Jun 03 13:32:09 2016
Response via : Initial Calibration
DataAcq Meth : MGH5288.M

Volume Inj.     : 2ul
Signal #1 Phase : ZB-624            Signal #2 Phase: RTX-1
Signal #1 Info  : 30mx0.53mmx3um    Signal #2 Info : 30mx0.32mmx3um
```

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	System Monitoring Compounds						
9) S	Hexanol	5.56	5.47	305915	696671	4525.598	4484.596
	Spiked Amount 5000.000			Recovery	=	90.51%	89.69%
	Target Compounds						
1)	Methanol	1.11	0.89	71031	153851	4594.901	4769.934
2)	Ethanol	1.45	1.14	104279	210702	5502.790	5285.924
3)	Tert-Butyl Alcoh	2.01	1.64	151032	340887	5330.269	5361.300
4)	1-Propanol	2.51	1.99	134463	271794	5527.511	5345.811
5)	2-Propanol	1.75	1.40	107168	233804	5376.927	5163.625
6)	Isobutanol	3.31	2.92	166291	323833	5779.807	5289.564
7)	1-Butanol	3.76	3.39	153150	300882	5362.260	4547.111
8)	2-Butanol	2.94	2.56	141476	293165	5518.998	5400.535

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

SGS ACCUTEST JC21347

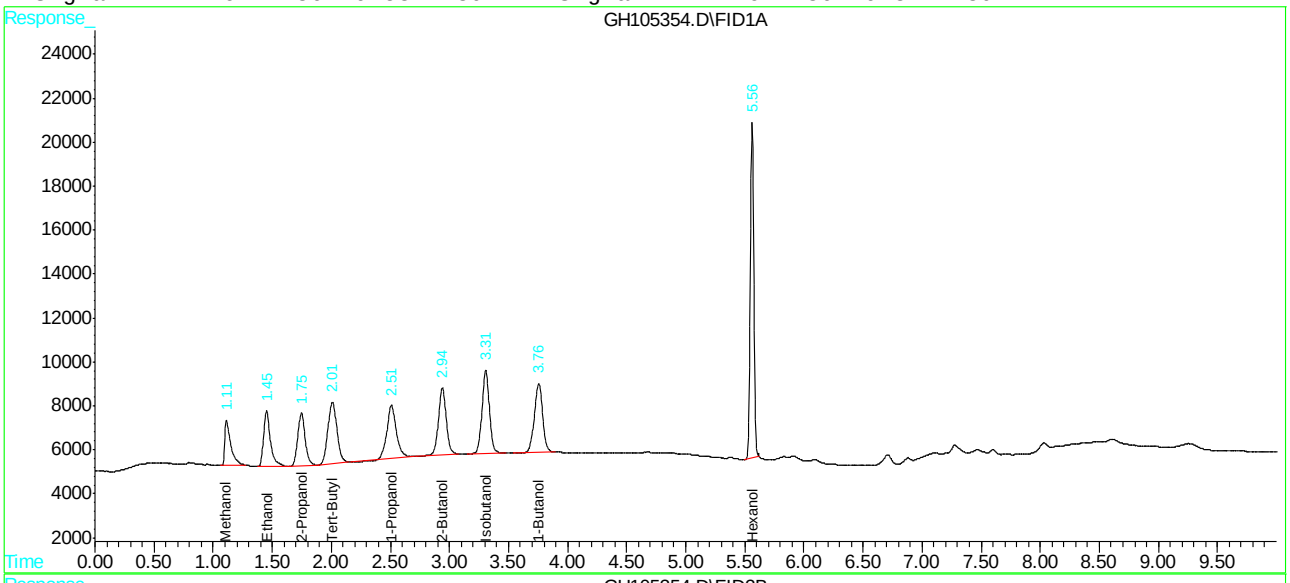
Quantitation Report (QT Reviewed)

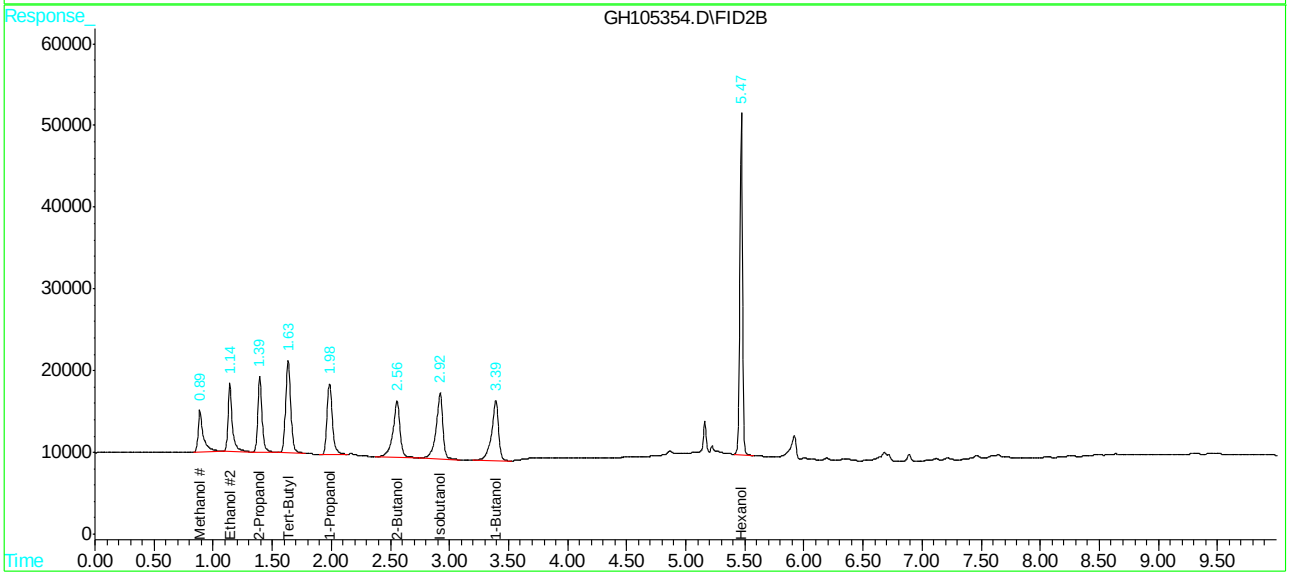
```
Data File : C:\HPCHEM\1\DATA\GH105354.D\FID1A.CH          Vial: 22
Acq On    :  3 Jun 2016  11:13 am                     Operator: XULIU
Sample    : JC21347-2MSD                              Inst    : GCGH
Misc      : GC48540,GGH5310,5.0,,,,1                  Multiplr: 1.00
IntFile   : AUTOINT1.E

Data File : C:\HPCHEM\1\DATA\GH105354.D\FID2B.CH          Vial: 22
Acq On    :  3 Jun 2016  11:27 am                     Operator: XULIU
Sample    : JC21347-2MSD                              Inst    : GCGH
Misc      : GC48540,GGH5310,5.0,,,,1                  Multiplr: 1.00
IntFile   : autoint2.e
Quant Time: Jun  3 13:32 2016  Quant Results File: MGH5288.RES

Quant Method : C:\HPCHEM\1\METHODS\MGH5288.M (Chemstation Integrator)
Title        : METHOD SW846-8015C (DAI)
Last Update  : Fri Jun 03 13:32:09 2016
Response via : Multiple Level Calibration
DataAcq Meth : MGH5288.M

Volume Inj.     : 2ul
Signal #1 Phase : ZB-624            Signal #2 Phase: RTX-1
Signal #1 Info  : 30mx0.53mmx3um    Signal #2 Info : 30mx0.32mmx3um
```





Manual Integrations APPROVED (compounds with "m" flag)
Owen McKenna
05/18/16 09:16

Quantitation Report (QT Reviewed)

```
Data File : C:\HPCHEM\1\DATA\GH105017.D\FID1A.CH          Vial: 2
Acq On    : 17 May 2016   4:14 pm                     Operator: XULIU
Sample    : IC5288-100                                Inst    : GCGH
Misc      : GC48422,GGH5288,5.0,,,,1                  Multiplr: 1.00
IntFile   : AUTOINT1.E

Data File : C:\HPCHEM\1\DATA\GH105017.D\FID2B.CH          Vial: 2
Acq On    : 17 May 2016   4:28 pm                     Operator: XULIU
Sample    : IC5288-100                                Inst    : GCGH
Misc      : GC48422,GGH5288,5.0,,,,1                  Multiplr: 1.00
IntFile   : autoint2.e
Quant Time: May 18  8:50 2016  Quant Results File: MGH5288.RES

Quant Method : C:\HPCHEM\1\METHODS\MGH5288.M (Chemstation Integrator)
Title        : METHOD SW846-8015C (DAI)
Last Update  : Wed May 18 07:34:35 2016
Response via : Initial Calibration
DataAcq Meth : MGH5288.M

Volume Inj.     : 2ul
Signal #1 Phase : ZB-624            Signal #2 Phase: RTX-1
Signal #1 Info  : 30mx0.53mmx3um    Signal #2 Info : 30mx0.32mmx3um
```

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	System Monitoring Compounds						
9) S	Hexanol	5.57	5.50	49213	113892	786.392	792.225
Spiked Amount	5000.000			Recovery	=	15.73%	15.84%
	Target Compounds						
1)	Methanol	1.12	0.89f	1784	2982	115.427	93.713m
2)	Ethanol	1.45	1.15	2099	3361	110.763	84.901m
3)	Tert-Butyl Alcoh	2.01	1.66	2806	5629	99.020	88.524
4)	1-Propanol	2.52	2.03	2187	3458	89.885	69.117m
5)	2-Propanol	1.75	1.41	1888	4004	94.702	88.437
6)	Isobutanol	3.32	2.95f	2784	6044	96.777	98.728
7)	1-Butanol	3.76	3.42	3014	7445	105.546	113.606m
8)	2-Butanol	2.95	2.57	2840	4510	121.739m	83.638m

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

SGS ACCUTEST JC21347

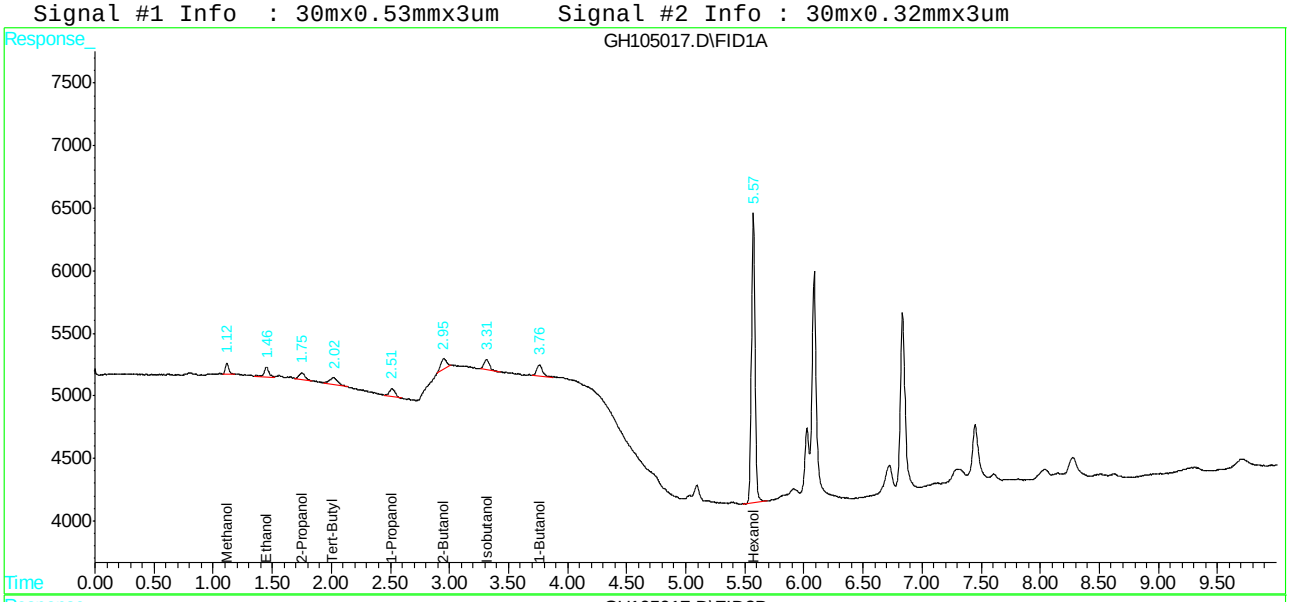
Quantitation Report (QT Reviewed)

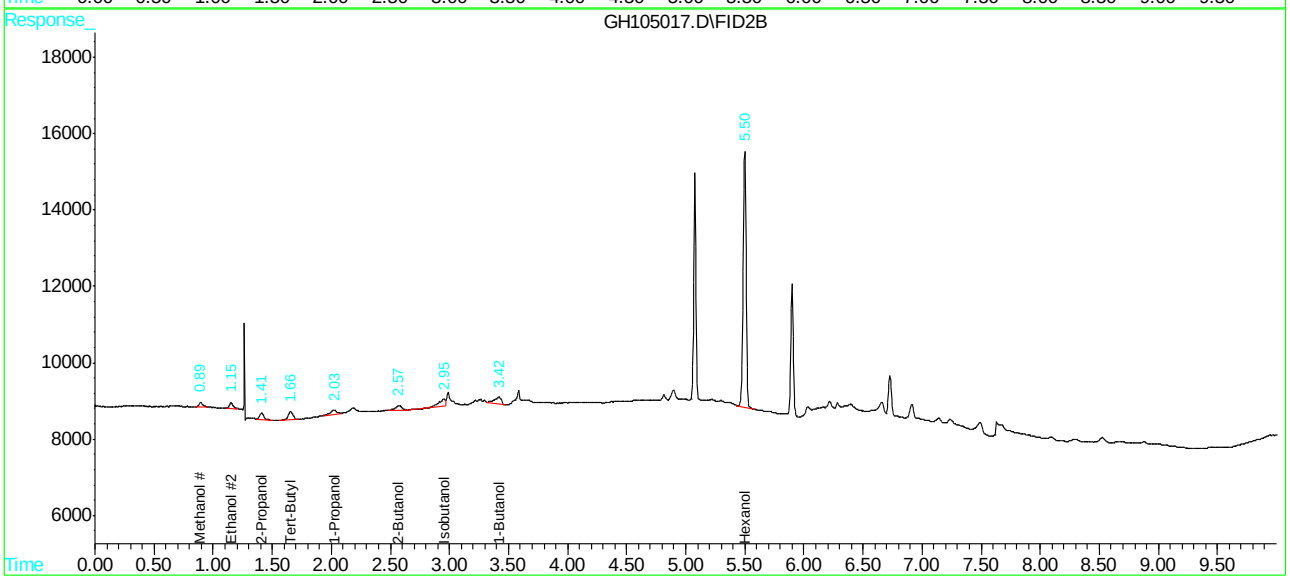
```
Data File : C:\HPCHEM\1\DATA\GH105017.D\FID1A.CH          Vial: 2
Acq On    : 17 May 2016   4:14 pm                     Operator: XULIU
Sample    : IC5288-100                                Inst    : GCGH
Misc      : GC48422,GGH5288,5.0,,,,1                  Multiplr: 1.00
IntFile   : AUTOINT1.E

Data File : C:\HPCHEM\1\DATA\GH105017.D\FID2B.CH          Vial: 2
Acq On    : 17 May 2016   4:28 pm                     Operator: XULIU
Sample    : IC5288-100                                Inst    : GCGH
Misc      : GC48422,GGH5288,5.0,,,,1                  Multiplr: 1.00
IntFile   : autoint2.e
Quant Time: May 18  8:50 2016  Quant Results File: MGH5288.RES

Quant Method : C:\HPCHEM\1\METHODS\MGH5288.M (Chemstation Integrator)
Title        : METHOD SW846-8015C (DAI)
Last Update  : Wed May 18 07:34:35 2016
Response via : Multiple Level Calibration
DataAcq Meth : MGH5288.M

Volume Inj.     : 2ul
Signal #1 Phase : ZB-624            Signal #2 Phase: RTX-1
Signal #1 Info  : 30mx0.53mmx3um    Signal #2 Info : 30mx0.32mmx3um
```





Manual Integration Approval Summary

Sample Number:	GGH5288-IC5288	**Method:**	SW846-8015C (DAI)
Lab FileID:	GH105017.D	**Analyst approved:**	05/18/16 09:10 Xu Liu
Injection Time:	05/17/16 16:14	**Supervisor approved:**	05/18/16 09:16 Owen McKenna

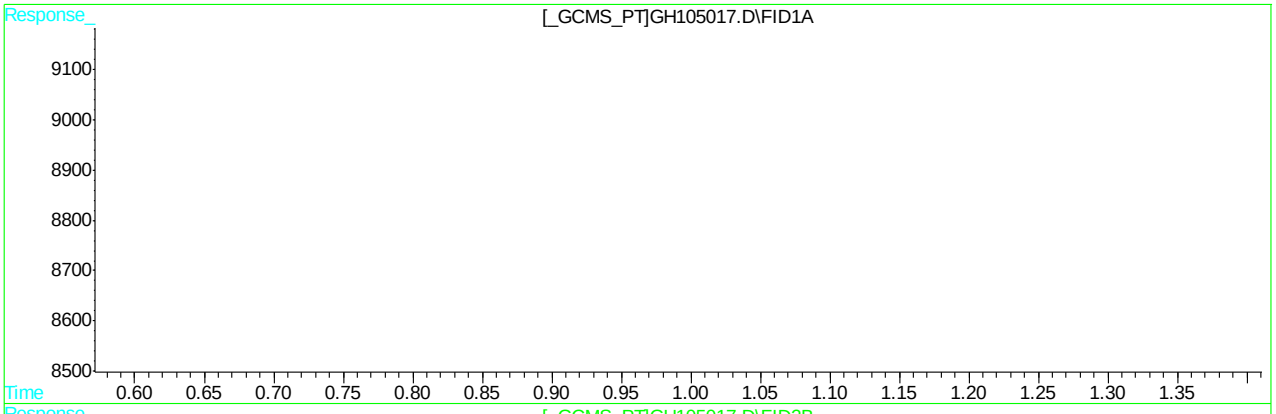
Parameter	CAS	Sig#	R.T. (min.)	Reason
Methanol	67-56-1	2	0.89	Poor instrument integration
Ethanol	64-17-5	2	1.15	Poor instrument integration
n-Propyl Alcohol	71-23-8	2	2.03	Poor instrument integration
sec-Butyl Alcohol	78-92-2	2	2.57	Poor instrument integration
sec-Butyl Alcohol	78-92-2	1	2.95	Poor instrument integration
n-Butyl Alcohol	71-36-3	2	3.42	Poor instrument integration

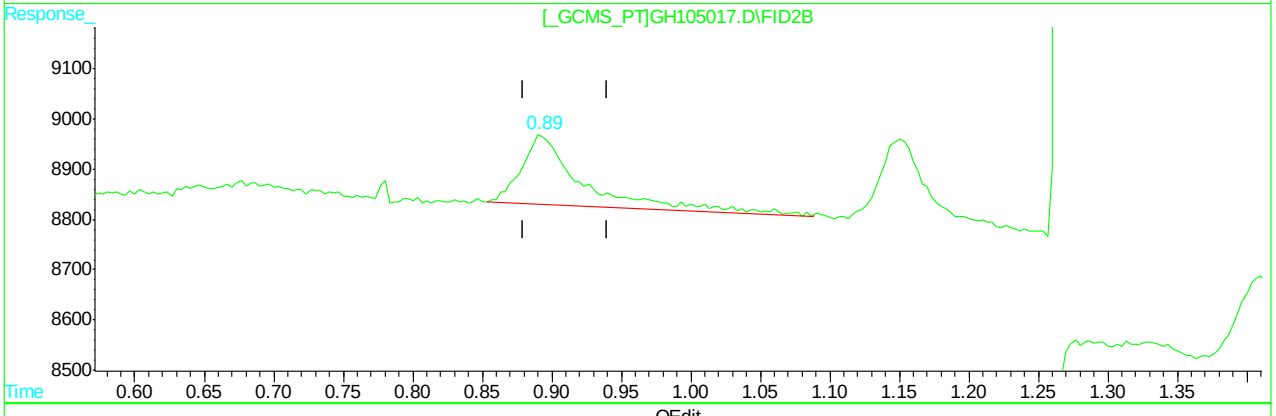
Quantitation Report (Qedit)

```
Data File : C:\HPCHEM\1\DATA\GH105017.D\FID1A.CH          Vial: 2
Acq On    : 17 May 2016   4:14 pm                     Operator: XULIU
Sample    : IC5288-100                                Inst    : GCGH
Misc      : GC48422,GGH5288,5.0,,,,1                  Multiplr: 1.00
IntFile   : AUTOINT1.E

Data File : C:\HPCHEM\1\DATA\GH105017.D\FID2B.CH          Vial: 2
Acq On    : 17 May 2016   4:28 pm                     Operator: XULIU
Sample    : IC5288-100                                Inst    : GCGH
Misc      : GC48422,GGH5288,5.0,,,,1                  Multiplr: 1.00
IntFile   : autoint2.e
Quant Time: May 18  7:37 2016  Quant Results File: MGH5288.RES


Method       : C:\HPCHEM\1\METHODS\MGH5288.M (Chemstation Integrator)
Title        : METHOD SW846-8015C (DAI)
Last Update  : Wed May 18 07:34:35 2016
Response via : Multiple Level Calibration
```





QEdit

(1) Methanol

1.12min 115.427PPB

response 1784

(1) Methanol #2

0.89min 132.645PPB

response 4221

(+) = Expected Retention Time

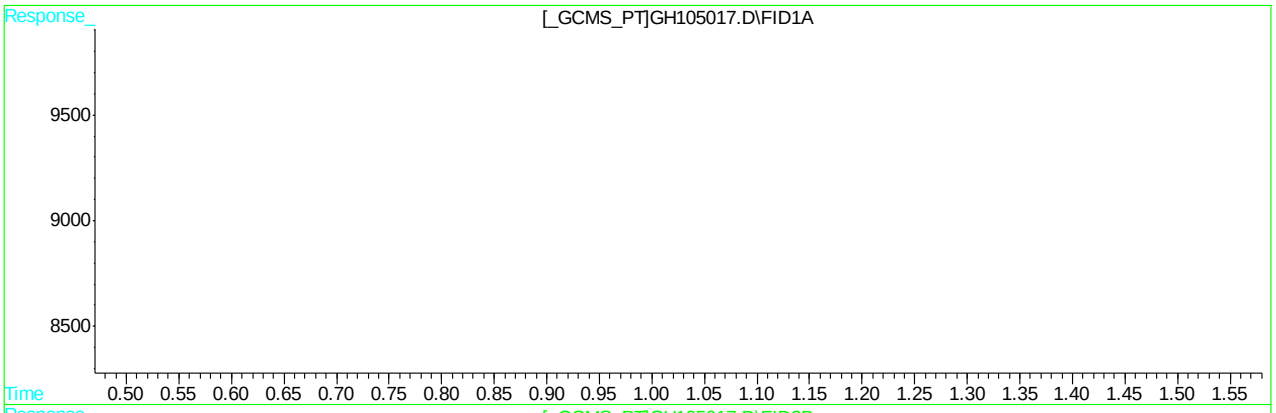
GH105017.D MGH5288.M Wed May 18 08:43:56 2016 GCGH

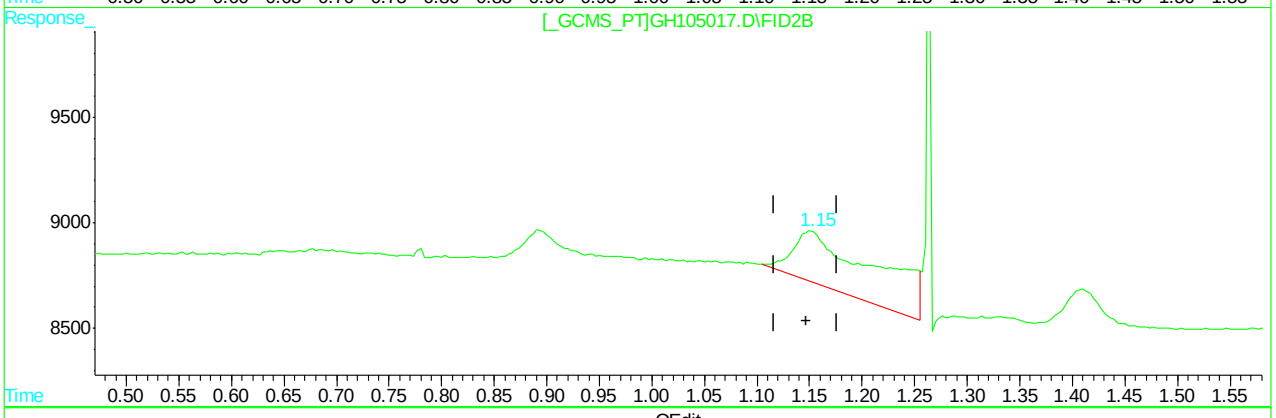
Quantitation Report (Qedit)

```
Data File : C:\HPCHEM\1\DATA\GH105017.D\FID1A.CH          Vial: 2
Acq On    : 17 May 2016   4:14 pm                     Operator: XULIU
Sample    : IC5288-100                                Inst    : GCGH
Misc      : GC48422,GGH5288,5.0,,,,1                  Multiplr: 1.00
IntFile   : AUTOINT1.E

Data File : C:\HPCHEM\1\DATA\GH105017.D\FID2B.CH          Vial: 2
Acq On    : 17 May 2016   4:28 pm                     Operator: XULIU
Sample    : IC5288-100                                Inst    : GCGH
Misc      : GC48422,GGH5288,5.0,,,,1                  Multiplr: 1.00
IntFile   : autoint2.e
Quant Time: May 18  7:37 2016  Quant Results File: MGH5288.RES


Method       : C:\HPCHEM\1\METHODS\MGH5288.M (Chemstation Integrator)
Title        : METHOD SW846-8015C (DAI)
Last Update  : Wed May 18 07:34:35 2016
Response via : Multiple Level Calibration
```





QEdit

(2) Ethanol

1.45min 110.763PPB

response 2099

(2) Ethanol #2

1.15min 367.751PPB

response 14557

(+) = Expected Retention Time

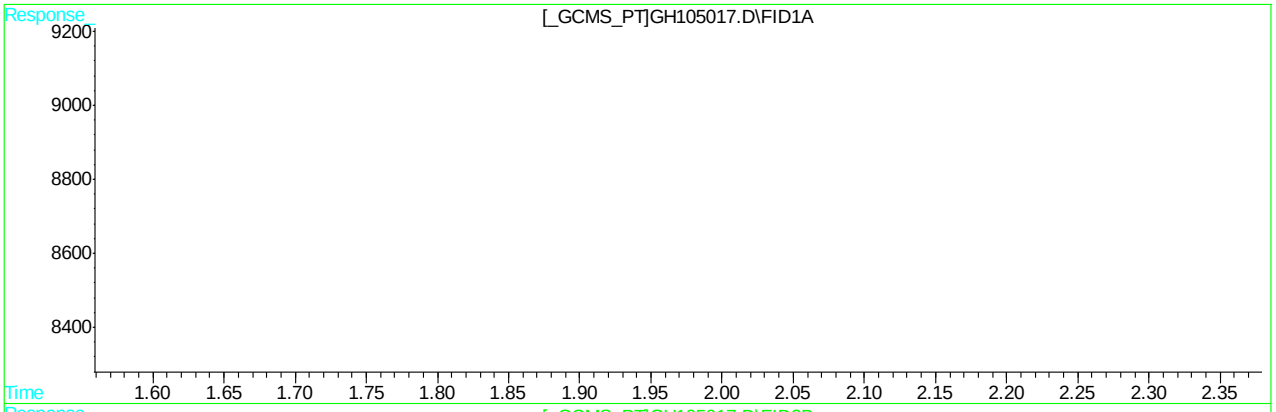
GH105017.D MGH5288.M Wed May 18 08:44:26 2016 GCGH

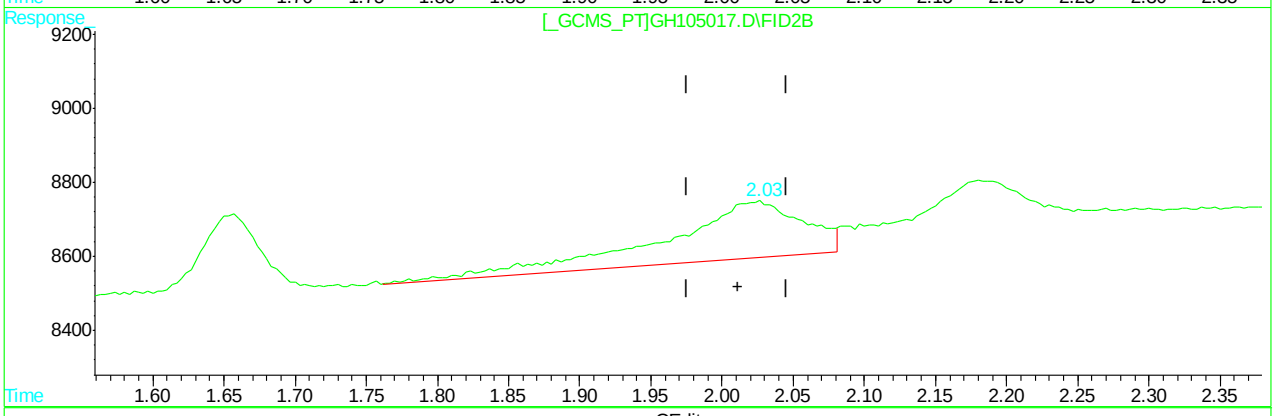
Quantitation Report (Qedit)

```
Data File : C:\HPCHEM\1\DATA\GH105017.D\FID1A.CH          Vial: 2
Acq On    : 17 May 2016   4:14 pm                     Operator: XULIU
Sample    : IC5288-100                                Inst    : GCGH
Misc      : GC48422,GGH5288,5.0,,,,1                  Multiplr: 1.00
IntFile   : AUTOINT1.E

Data File : C:\HPCHEM\1\DATA\GH105017.D\FID2B.CH          Vial: 2
Acq On    : 17 May 2016   4:28 pm                     Operator: XULIU
Sample    : IC5288-100                                Inst    : GCGH
Misc      : GC48422,GGH5288,5.0,,,,1                  Multiplr: 1.00
IntFile   : autoint2.e
Quant Time: May 18  7:37 2016  Quant Results File: MGH5288.RES


Method       : C:\HPCHEM\1\METHODS\MGH5288.M (Chemstation Integrator)
Title        : METHOD SW846-8015C (DAI)
Last Update  : Wed May 18 07:34:35 2016
Response via : Multiple Level Calibration
```





QEdit

(4) 1-Propanol

2.52min 89.885PPB

response 2187

(4) 1-Propanol #2

2.03min 209.050PPB

response 10460

(+) = Expected Retention Time

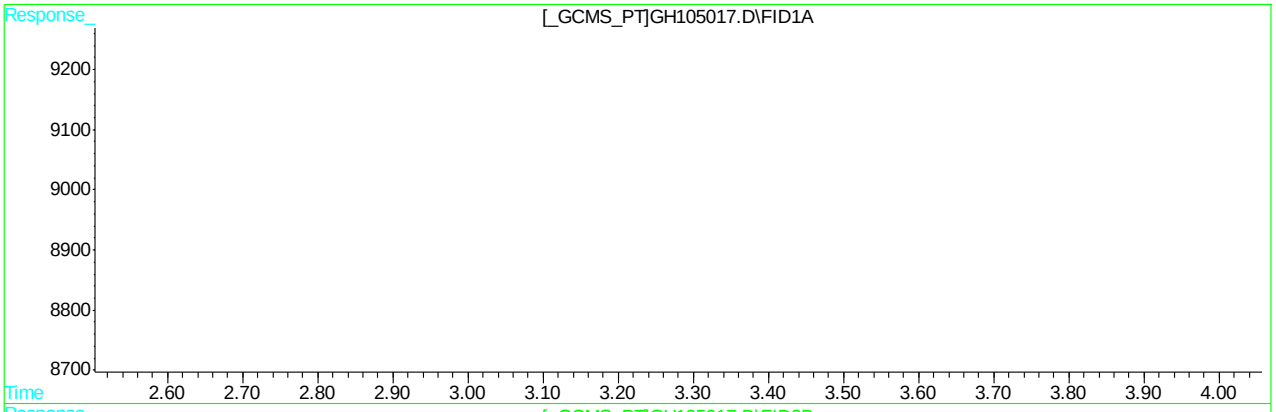
GH105017.D MGH5288.M Wed May 18 08:44:42 2016 GCGH

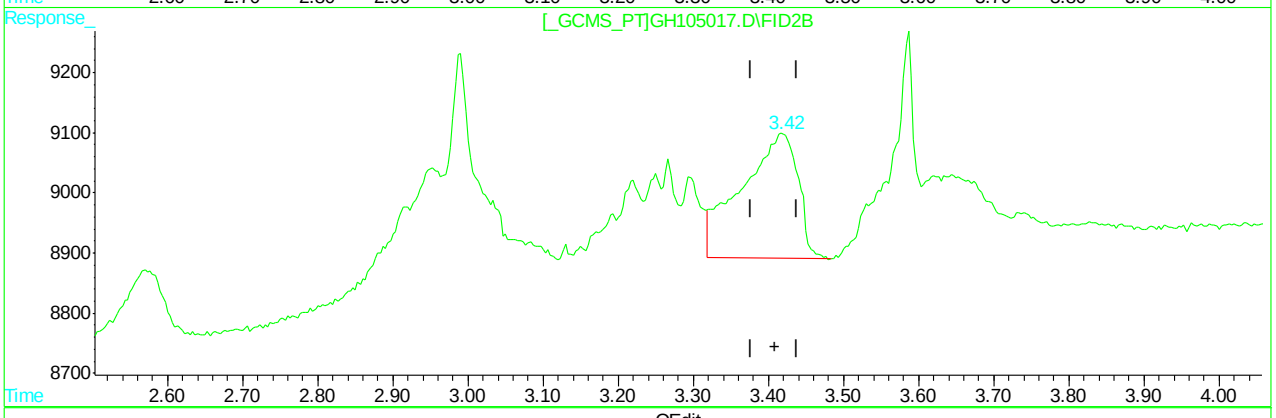
Quantitation Report (Qedit)

```
Data File : C:\HPCHEM\1\DATA\GH105017.D\FID1A.CH          Vial: 2
Acq On    : 17 May 2016   4:14 pm                     Operator: XULIU
Sample    : IC5288-100                                Inst    : GCGH
Misc      : GC48422,GGH5288,5.0,,,,1                  Multiplr: 1.00
IntFile   : AUTOINT1.E

Data File : C:\HPCHEM\1\DATA\GH105017.D\FID2B.CH          Vial: 2
Acq On    : 17 May 2016   4:28 pm                     Operator: XULIU
Sample    : IC5288-100                                Inst    : GCGH
Misc      : GC48422,GGH5288,5.0,,,,1                  Multiplr: 1.00
IntFile   : autoint2.e
Quant Time: May 18  7:37 2016  Quant Results File: MGH5288.RES


Method       : C:\HPCHEM\1\METHODS\MGH5288.M (Chemstation Integrator)
Title        : METHOD SW846-8015C (DAI)
Last Update  : Wed May 18 07:34:35 2016
Response via : Multiple Level Calibration
```





QEdit

(7) 1-Butanol

3.76min 105.546PPB

response 3014

(7) 1-Butanol #2

3.42min 167.388PPB

response 10970

(+) = Expected Retention Time

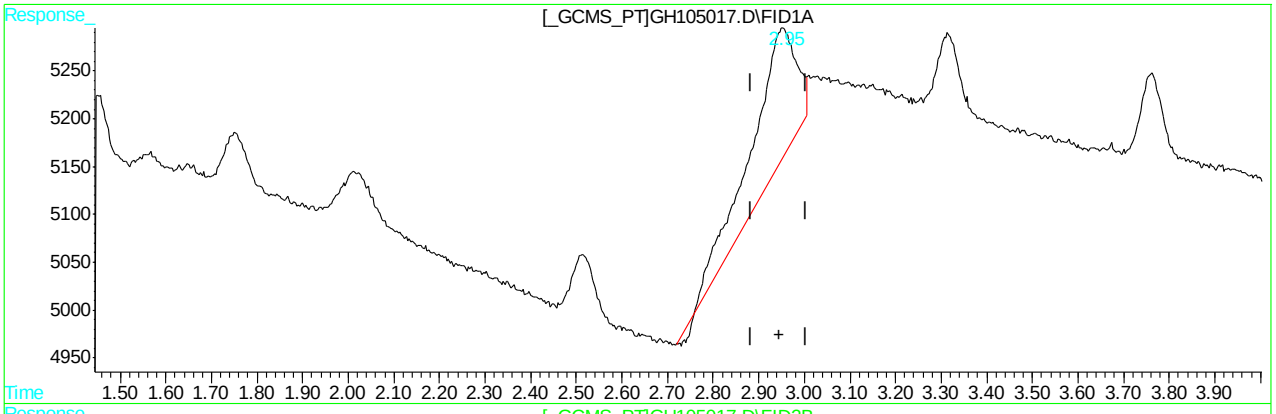
GH105017.D MGH5288.M Wed May 18 08:45:02 2016 GCGH

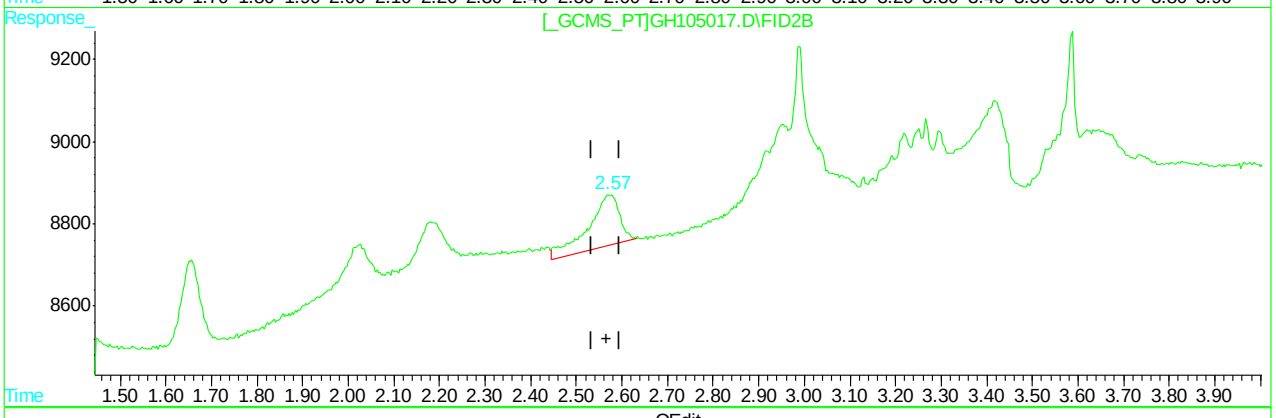
Quantitation Report (Qedit)

```
Data File : C:\HPCHEM\1\DATA\GH105017.D\FID1A.CH          Vial: 2
Acq On    : 17 May 2016   4:14 pm                     Operator: XULIU
Sample    : IC5288-100                                Inst    : GCGH
Misc      : GC48422,GGH5288,5.0,,,,1                  Multiplr: 1.00
IntFile   : AUTOINT1.E

Data File : C:\HPCHEM\1\DATA\GH105017.D\FID2B.CH          Vial: 2
Acq On    : 17 May 2016   4:28 pm                     Operator: XULIU
Sample    : IC5288-100                                Inst    : GCGH
Misc      : GC48422,GGH5288,5.0,,,,1                  Multiplr: 1.00
IntFile   : autoint2.e
Quant Time: May 18  7:37 2016  Quant Results File: MGH5288.RES


Method       : C:\HPCHEM\1\METHODS\MGH5288.M (Chemstation Integrator)
Title        : METHOD SW846-8015C (DAI)
Last Update  : Wed May 18 07:34:35 2016
Response via : Multiple Level Calibration
```





QEdit

(8) 2-Butanol

2.95min 395.696PPB

response 9232

(8) 2-Butanol #2

2.57min 109.800PPB

response 5921

(+) = Expected Retention Time

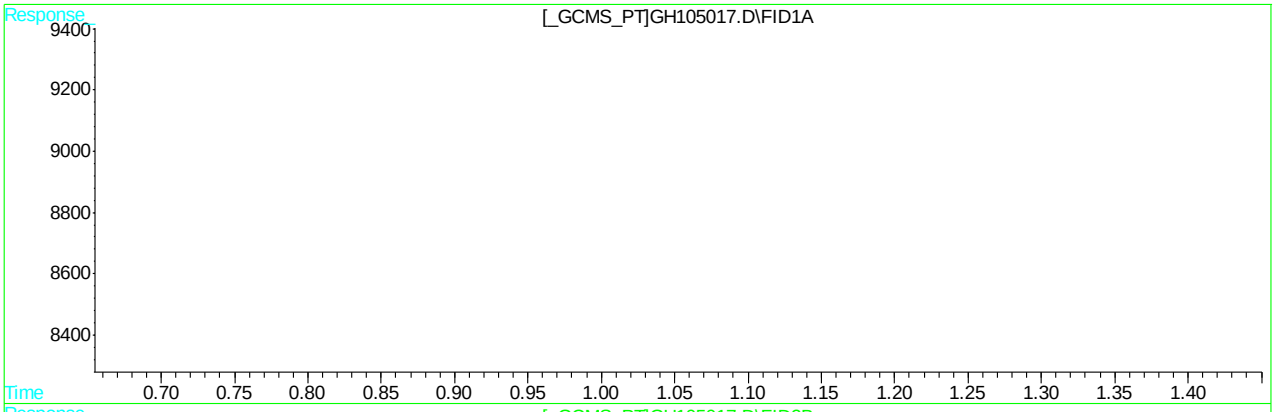
GH105017.D MGH5288.M Wed May 18 08:45:09 2016 GCGH

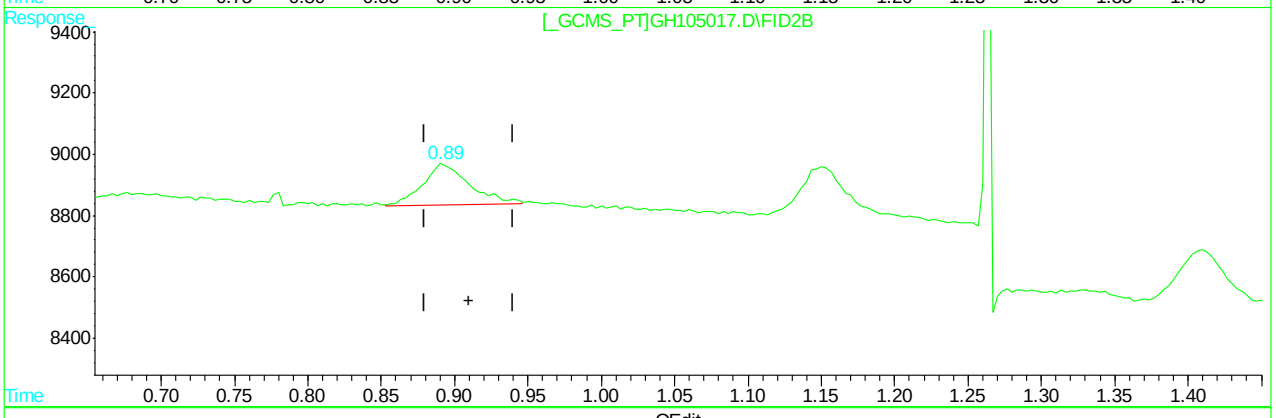
Quantitation Report (Qedit)

```
Data File : C:\HPCHEM\1\DATA\GH105017.D\FID1A.CH          Vial: 2
Acq On    : 17 May 2016   4:14 pm                     Operator: XULIU
Sample    : IC5288-100                                Inst    : GCGH
Misc      : GC48422,GGH5288,5.0,,,,1                  Multiplr: 1.00
IntFile   : AUTOINT1.E

Data File : C:\HPCHEM\1\DATA\GH105017.D\FID2B.CH          Vial: 2
Acq On    : 17 May 2016   4:28 pm                     Operator: XULIU
Sample    : IC5288-100                                Inst    : GCGH
Misc      : GC48422,GGH5288,5.0,,,,1                  Multiplr: 1.00
IntFile   : autoint2.e
Quant Time: May 18  7:37 2016  Quant Results File: MGH5288.RES


Method       : C:\HPCHEM\1\METHODS\MGH5288.M (Chemstation Integrator)
Title        : METHOD SW846-8015C (DAI)
Last Update  : Wed May 18 07:34:35 2016
Response via : Multiple Level Calibration
```





QEdit

(1) Methanol

1.12min 115.427PPB

response 1784

(1) Methanol #2

0.89min 93.713PPB m

response 2982

(+) = Expected Retention Time

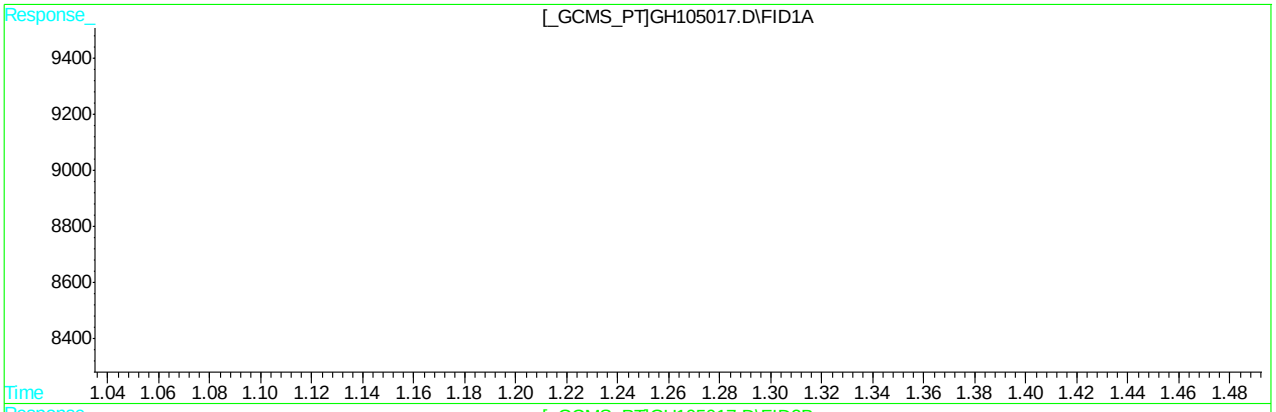
GH105017.D MGH5288.M Wed May 18 08:46:19 2016 GCGH

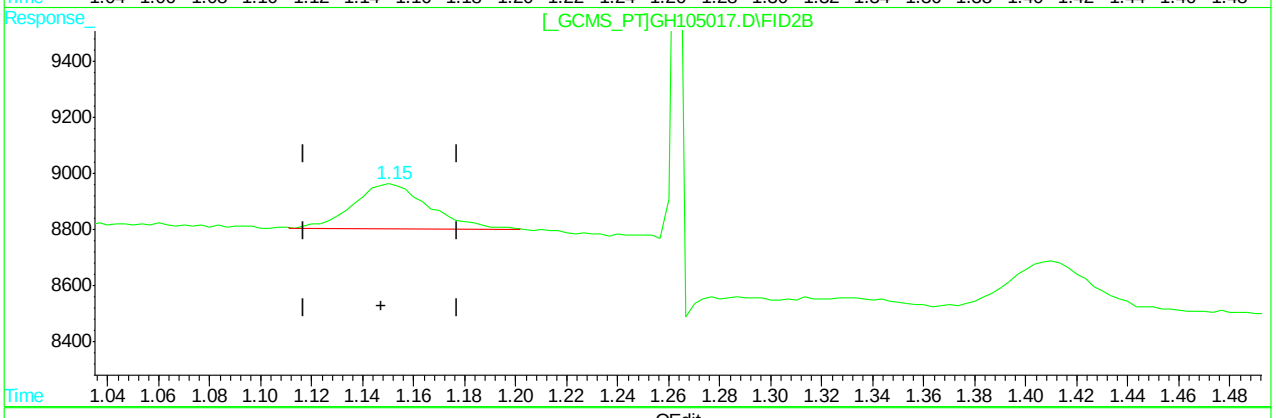
Quantitation Report (Qedit)

```
Data File : C:\HPCHEM\1\DATA\GH105017.D\FID1A.CH          Vial: 2
Acq On    : 17 May 2016   4:14 pm                     Operator: XULIU
Sample    : IC5288-100                                Inst    : GCGH
Misc      : GC48422,GGH5288,5.0,,,,1                  Multiplr: 1.00
IntFile   : AUTOINT1.E

Data File : C:\HPCHEM\1\DATA\GH105017.D\FID2B.CH          Vial: 2
Acq On    : 17 May 2016   4:28 pm                     Operator: XULIU
Sample    : IC5288-100                                Inst    : GCGH
Misc      : GC48422,GGH5288,5.0,,,,1                  Multiplr: 1.00
IntFile   : autoint2.e
Quant Time: May 18  7:37 2016  Quant Results File: MGH5288.RES


Method       : C:\HPCHEM\1\METHODS\MGH5288.M (Chemstation Integrator)
Title        : METHOD SW846-8015C (DAI)
Last Update  : Wed May 18 07:34:35 2016
Response via : Multiple Level Calibration
```





QEdit

(2) Ethanol

1.45min 110.763PPB

response 2099

(2) Ethanol #2

1.15min 84.901PPB m

response 3361

(+) = Expected Retention Time

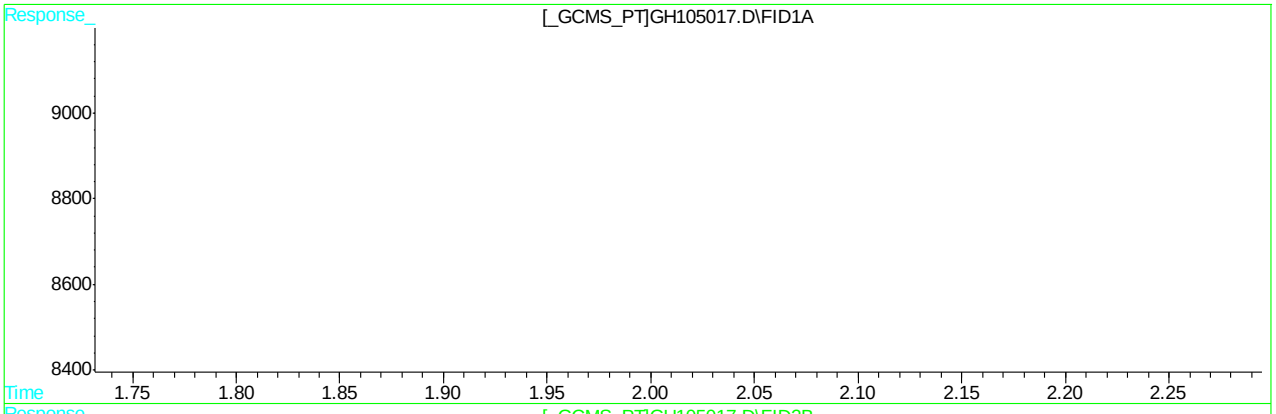
GH105017.D MGH5288.M Wed May 18 08:46:55 2016 GCGH

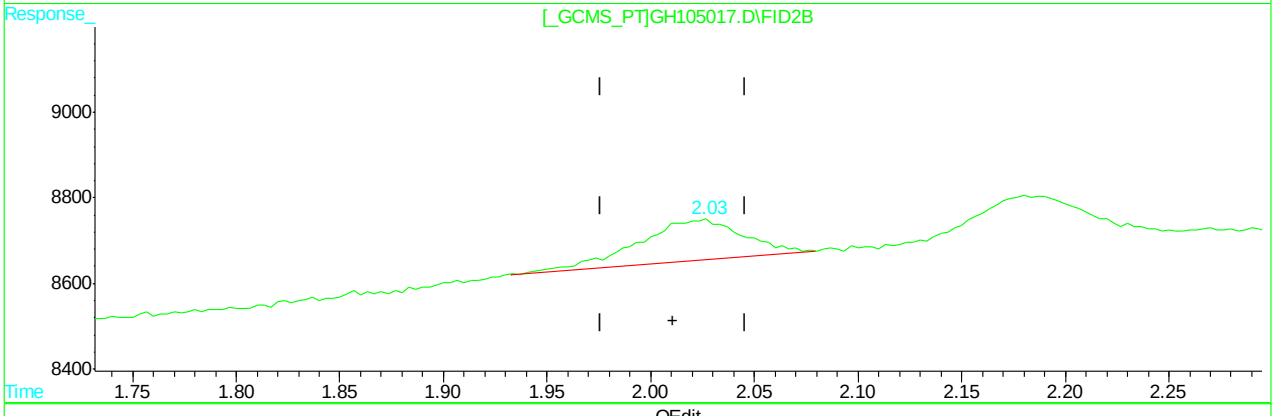
Quantitation Report (Qedit)

```
Data File : C:\HPCHEM\1\DATA\GH105017.D\FID1A.CH          Vial: 2
Acq On    : 17 May 2016   4:14 pm                     Operator: XULIU
Sample    : IC5288-100                                Inst    : GCGH
Misc      : GC48422,GGH5288,5.0,,,,1                  Multiplr: 1.00
IntFile   : AUTOINT1.E

Data File : C:\HPCHEM\1\DATA\GH105017.D\FID2B.CH          Vial: 2
Acq On    : 17 May 2016   4:28 pm                     Operator: XULIU
Sample    : IC5288-100                                Inst    : GCGH
Misc      : GC48422,GGH5288,5.0,,,,1                  Multiplr: 1.00
IntFile   : autoint2.e
Quant Time: May 18  7:37 2016  Quant Results File: MGH5288.RES


Method       : C:\HPCHEM\1\METHODS\MGH5288.M (Chemstation Integrator)
Title        : METHOD SW846-8015C (DAI)
Last Update  : Wed May 18 07:34:35 2016
Response via : Multiple Level Calibration
```





QEdit

(4) 1-Propanol

2.52min 89.885PPB

response 2187

(4) 1-Propanol #2

2.03min 69.117PPB m

response 3458

(+) = Expected Retention Time

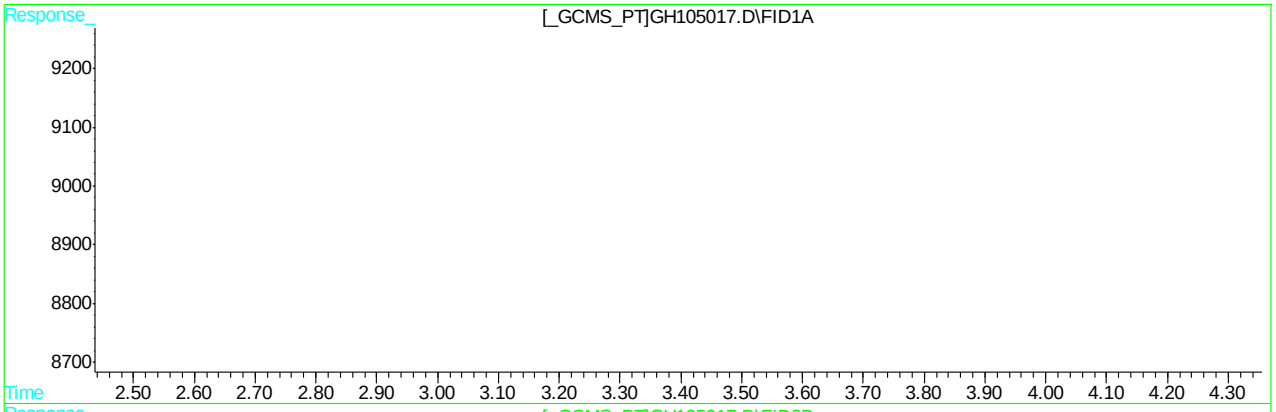
GH105017.D MGH5288.M Wed May 18 08:48:45 2016 GCGH

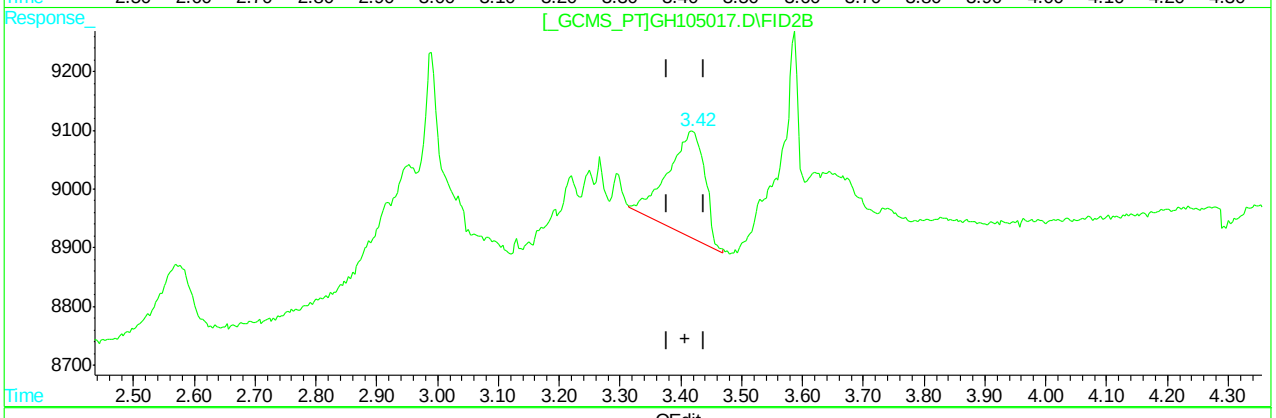
Quantitation Report (Qedit)

```
Data File : C:\HPCHEM\1\DATA\GH105017.D\FID1A.CH          Vial: 2
Acq On    : 17 May 2016   4:14 pm                     Operator: XULIU
Sample    : IC5288-100                                Inst    : GCGH
Misc      : GC48422,GGH5288,5.0,,,,1                  Multiplr: 1.00
IntFile   : AUTOINT1.E

Data File : C:\HPCHEM\1\DATA\GH105017.D\FID2B.CH          Vial: 2
Acq On    : 17 May 2016   4:28 pm                     Operator: XULIU
Sample    : IC5288-100                                Inst    : GCGH
Misc      : GC48422,GGH5288,5.0,,,,1                  Multiplr: 1.00
IntFile   : autoint2.e
Quant Time: May 18  7:37 2016  Quant Results File: MGH5288.RES


Method       : C:\HPCHEM\1\METHODS\MGH5288.M (Chemstation Integrator)
Title        : METHOD SW846-8015C (DAI)
Last Update  : Wed May 18 07:34:35 2016
Response via : Multiple Level Calibration
```





QEdit

(7) 1-Butanol

3.76min 105.546PPB

response 3014

(7) 1-Butanol #2

3.42min 113.606PPB m

response 7445

(+) = Expected Retention Time

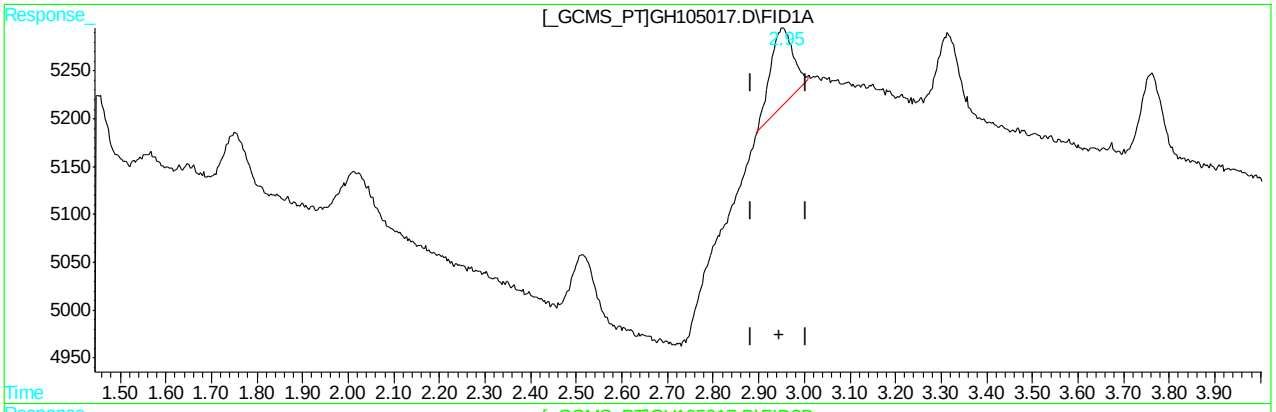
GH105017.D MGH5288.M Wed May 18 08:49:10 2016 GCGH

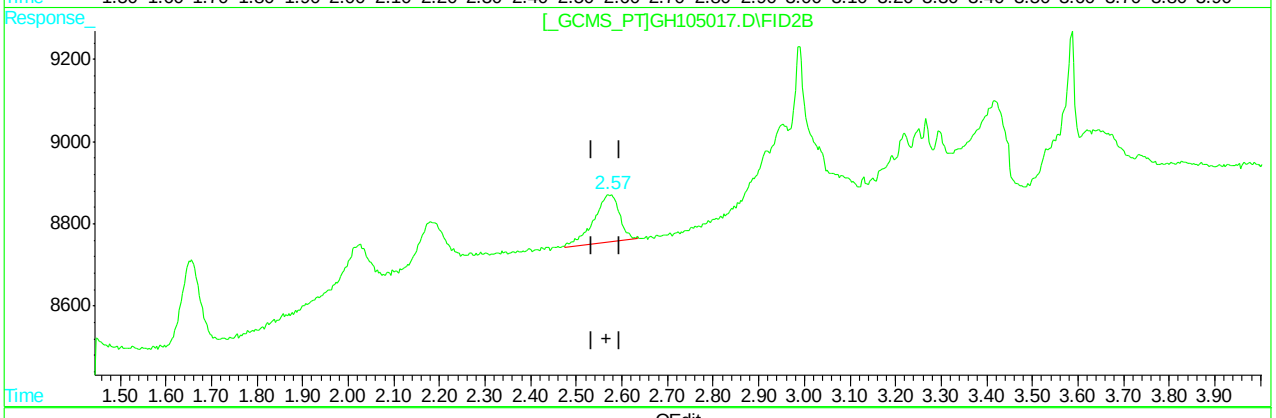
Quantitation Report (Qedit)

```
Data File : C:\HPCHEM\1\DATA\GH105017.D\FID1A.CH          Vial: 2
Acq On    : 17 May 2016   4:14 pm                     Operator: XULIU
Sample    : IC5288-100                                Inst    : GCGH
Misc      : GC48422,GGH5288,5.0,,,,1                  Multiplr: 1.00
IntFile   : AUTOINT1.E

Data File : C:\HPCHEM\1\DATA\GH105017.D\FID2B.CH          Vial: 2
Acq On    : 17 May 2016   4:28 pm                     Operator: XULIU
Sample    : IC5288-100                                Inst    : GCGH
Misc      : GC48422,GGH5288,5.0,,,,1                  Multiplr: 1.00
IntFile   : autoint2.e
Quant Time: May 18  7:37 2016  Quant Results File: MGH5288.RES


Method       : C:\HPCHEM\1\METHODS\MGH5288.M (Chemstation Integrator)
Title        : METHOD SW846-8015C (DAI)
Last Update  : Wed May 18 07:34:35 2016
Response via : Multiple Level Calibration
```





QEdit

(8) 2-Butanol

2.95min 121.739PPB m

response 2840

(8) 2-Butanol #2

2.57min 83.638PPB m

response 4510

(+) = Expected Retention Time

GH105017.D MGH5288.M Wed May 18 08:50:46 2016 GCGH

Quantitation Report (QT Reviewed)

```
Data File : C:\HPCHEM\1\DATA\GH105018.D\FID1A.CH          Vial: 3
Acq On    : 17 May 2016   4:28 pm                     Operator: XULIU
Sample    : IC5288-500                                Inst    : GCGH
Misc      : GC48422,GGH5288,5.0,,,,1                  Multiplr: 1.00
IntFile   : AUTOINT1.E

Data File : C:\HPCHEM\1\DATA\GH105018.D\FID2B.CH          Vial: 3
Acq On    : 17 May 2016   4:43 pm                     Operator: XULIU
Sample    : IC5288-500                                Inst    : GCGH
Misc      : GC48422,GGH5288,5.0,,,,1                  Multiplr: 1.00
IntFile   : autoint2.e
Quant Time: May 18  7:23 2016  Quant Results File: MGH5288.RES

Quant Method : C:\HPCHEM\1\METHODS\MGH5288.M (Chemstation Integrator)
Title        : METHOD SW846-8015C (DAI)
Last Update  : Wed May 18 07:22:56 2016
Response via : Initial Calibration
DataAcq Meth : MGH5288.M

Volume Inj.     : 2ul
Signal #1 Phase : ZB-624            Signal #2 Phase: RTX-1
Signal #1 Info  : 30mx0.53mmx3um    Signal #2 Info : 30mx0.32mmx3um
```

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	System Monitoring Compounds						
9) S	Hexanol	5.57	5.50	133226	309222	2149.239	2179.587
	Spiked Amount 5000.000			Recovery	=	42.98%	43.59%
	Target Compounds						
1)	Methanol	1.12	0.90	7371	16974	487.375	523.867
2)	Ethanol	1.45	1.15	7403	20315	382.175	495.986
3)	Tert-Butyl Alcoh	2.02	1.65	13219	32642	459.462	504.499
4)	1-Propanol	2.52	2.01	11323	26078	450.160	484.442
5)	2-Propanol	1.75	1.41	8826	24643	428.510	541.309
6)	Isobutanol	3.32	2.95f	14018	31821	481.673	522.579
7)	1-Butanol	3.76	3.41	14489	37291	514.513	593.512
8)	2-Butanol	2.95	2.57	11839	27554	464.803	492.431

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

SGS ACCUTEST JC21347

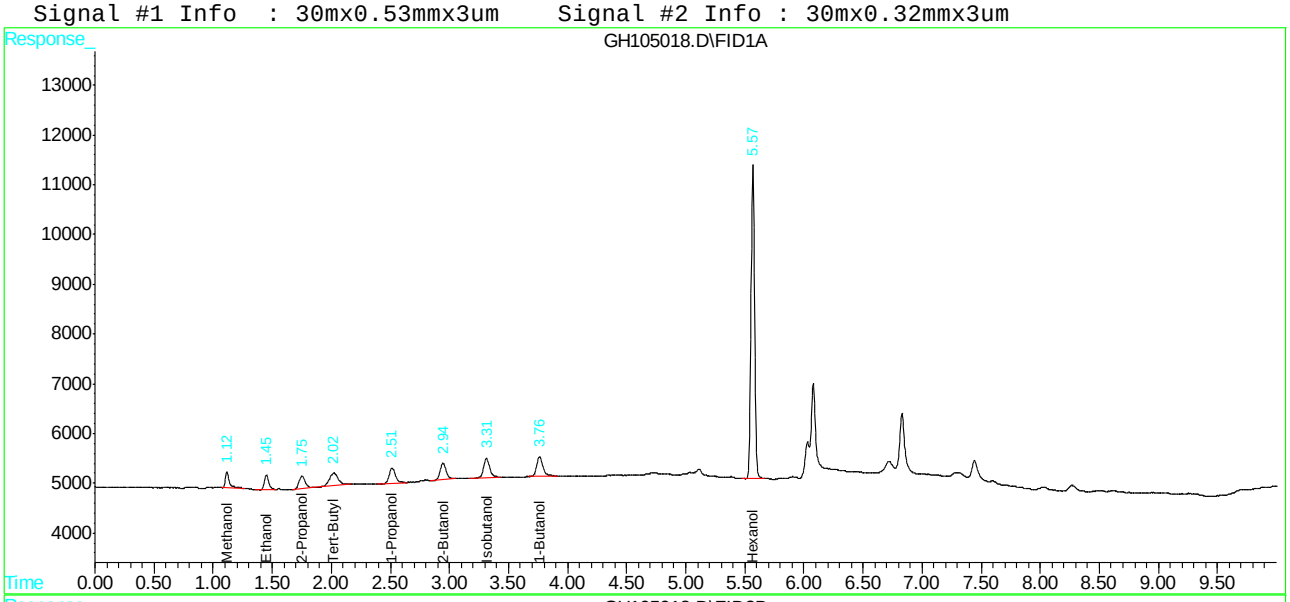
Quantitation Report (QT Reviewed)

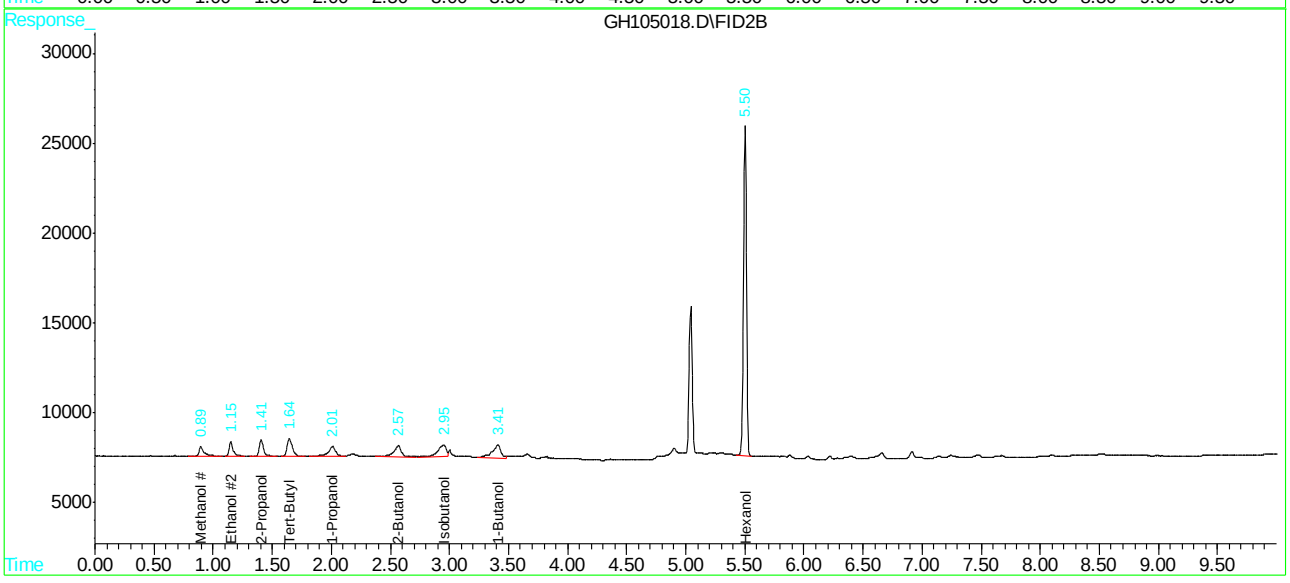
```
Data File : C:\HPCHEM\1\DATA\GH105018.D\FID1A.CH          Vial: 3
Acq On    : 17 May 2016   4:28 pm                     Operator: XULIU
Sample    : IC5288-500                                Inst    : GCGH
Misc      : GC48422,GGH5288,5.0,,,,1                  Multiplr: 1.00
IntFile   : AUTOINT1.E

Data File : C:\HPCHEM\1\DATA\GH105018.D\FID2B.CH          Vial: 3
Acq On    : 17 May 2016   4:43 pm                     Operator: XULIU
Sample    : IC5288-500                                Inst    : GCGH
Misc      : GC48422,GGH5288,5.0,,,,1                  Multiplr: 1.00
IntFile   : autoint2.e
Quant Time: May 18  7:23 2016  Quant Results File: MGH5288.RES

Quant Method : C:\HPCHEM\1\METHODS\MGH5288.M (Chemstation Integrator)
Title        : METHOD SW846-8015C (DAI)
Last Update  : Wed May 18 07:22:56 2016
Response via : Multiple Level Calibration
DataAcq Meth : MGH5288.M

Volume Inj.     : 2ul
Signal #1 Phase : ZB-624            Signal #2 Phase: RTX-1
Signal #1 Info  : 30mx0.53mmx3um    Signal #2 Info : 30mx0.32mmx3um
```





SGS ACCUTEST JC21347

Quantitation Report (QT Reviewed)

```
Data File : C:\HPCHEM\1\DATA\GH105019.D\FID1A.CH          Vial: 4
Acq On    : 17 May 2016   4:43 pm                     Operator: XULIU
Sample    : IC5288-1000                               Inst    : GCGH
Misc      : GC48422,GGH5288,5.0,,,,1                  Multiplr: 1.00
IntFile   : AUTOINT1.E

Data File : C:\HPCHEM\1\DATA\GH105019.D\FID2B.CH          Vial: 4
Acq On    : 17 May 2016   4:57 pm                     Operator: XULIU
Sample    : IC5288-1000                               Inst    : GCGH
Misc      : GC48422,GGH5288,5.0,,,,1                  Multiplr: 1.00
IntFile   : autoint2.e
Quant Time: May 18  7:22 2016  Quant Results File: MGH5288.RES

Quant Method : C:\HPCHEM\1\METHODS\MGH5288.M (Chemstation Integrator)
Title        : METHOD SW846-8015C (DAI)
Last Update  : Wed May 18 07:22:21 2016
Response via : Initial Calibration
DataAcq Meth : MGH5288.M

Volume Inj.     : 2ul
Signal #1 Phase : ZB-624            Signal #2 Phase: RTX-1
Signal #1 Info  : 30mx0.53mmx3um    Signal #2 Info : 30mx0.32mmx3um
```

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	System Monitoring Compounds						
9) S	Hexanol	5.57	5.51	274171	622051	4543.104	4492.586
Spiked Amount	5000.000			Recovery	=	90.86%	89.85%
	Target Compounds						
1)	Methanol	1.12	0.92	16166	29685	1087.516	897.349
2)	Ethanol	1.45	1.17f	18855	36354	966.928	863.337
3)	Tert-Butyl Alcoh	2.01	1.66	28949	63750	1007.774	981.673
4)	1-Propanol	2.51	2.02	25248	52807	1004.669	976.309
5)	2-Propanol	1.75	1.42	20497	43421	993.892	942.889
6)	Isobutanol	3.31	2.94	29498	59602	1017.007	973.641
7)	1-Butanol	3.76	3.42	29408	73648	1055.991	1224.889
8)	2-Butanol	2.94	2.57	25576	58599	1005.126	1059.749

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

SGS ACCUTEST JC21347

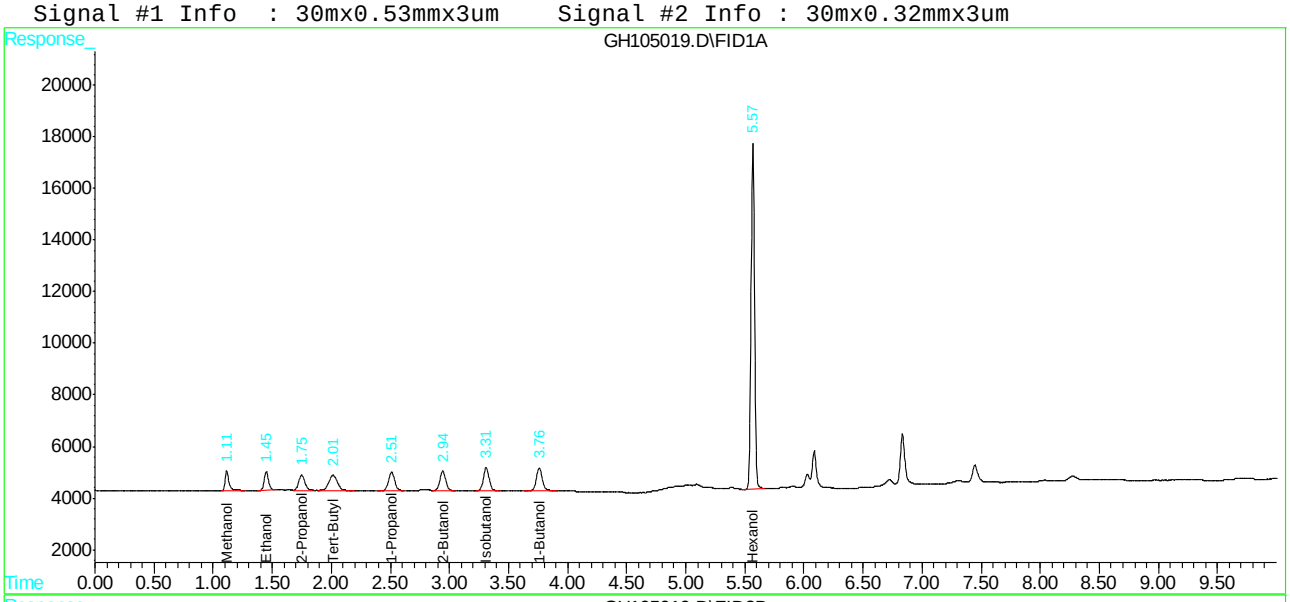
Quantitation Report (QT Reviewed)

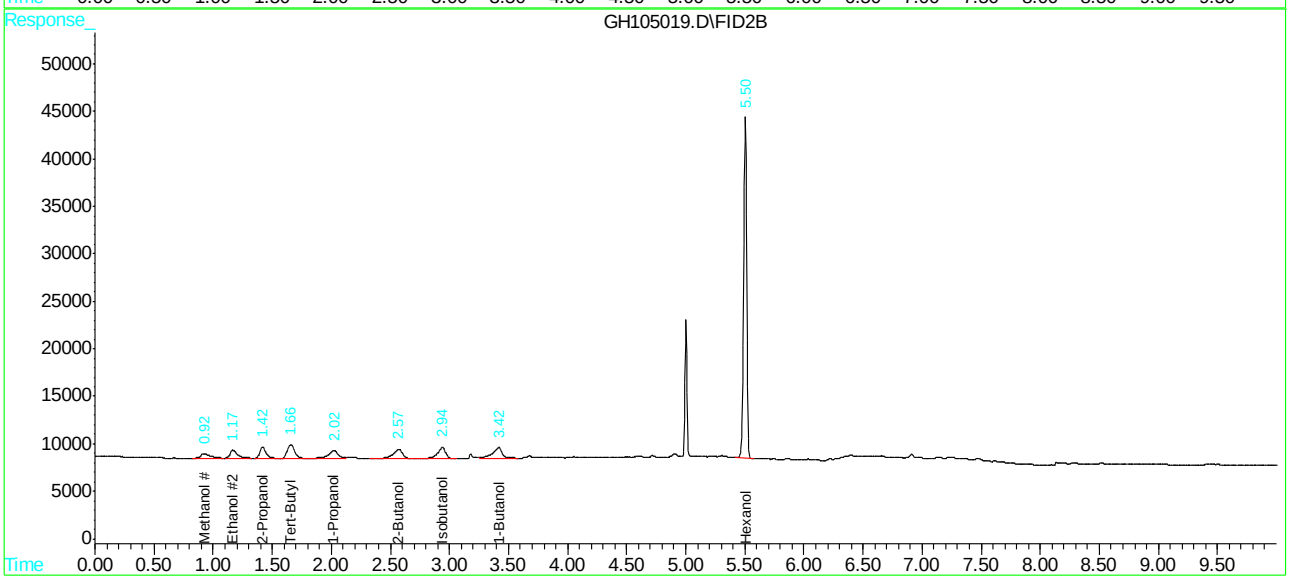
```
Data File : C:\HPCHEM\1\DATA\GH105019.D\FID1A.CH          Vial: 4
Acq On    : 17 May 2016   4:43 pm                     Operator: XULIU
Sample    : IC5288-1000                               Inst    : GCGH
Misc      : GC48422,GGH5288,5.0,,,,1                  Multiplr: 1.00
IntFile   : AUTOINT1.E

Data File : C:\HPCHEM\1\DATA\GH105019.D\FID2B.CH          Vial: 4
Acq On    : 17 May 2016   4:57 pm                     Operator: XULIU
Sample    : IC5288-1000                               Inst    : GCGH
Misc      : GC48422,GGH5288,5.0,,,,1                  Multiplr: 1.00
IntFile   : autoint2.e
Quant Time: May 18  7:22 2016  Quant Results File: MGH5288.RES

Quant Method : C:\HPCHEM\1\METHODS\MGH5288.M (Chemstation Integrator)
Title        : METHOD SW846-8015C (DAI)
Last Update  : Wed May 18 07:22:21 2016
Response via : Multiple Level Calibration
DataAcq Meth : MGH5288.M

Volume Inj.     : 2ul
Signal #1 Phase : ZB-624            Signal #2 Phase: RTX-1
Signal #1 Info  : 30mx0.53mmx3um    Signal #2 Info : 30mx0.32mmx3um
```





Quantitation Report (QT Reviewed)

```
Data File : C:\HPCHEM\1\DATA\GH105020.D\FID1A.CH          Vial: 5
Acq On    : 17 May 2016   4:57 pm                     Operator: XULIU
Sample    : ICC5288-5000                              Inst    : GCGH
Misc      : GC48422,GGH5288,5.0,,,,1                  Multiplr: 1.00
IntFile   : AUTOINT1.E

Data File : C:\HPCHEM\1\DATA\GH105020.D\FID2B.CH          Vial: 5
Acq On    : 17 May 2016   5:19 pm                     Operator: XULIU
Sample    : ICC5288-5000                              Inst    : GCGH
Misc      : GC48422,GGH5288,5.0,,,,1                  Multiplr: 1.00
IntFile   : autoint2.e
Quant Time: May 18  7:09 2016  Quant Results File: MGH5288.RES

Quant Method : C:\HPCHEM\1\METHODS\MGH5288.M (Chemstation Integrator)
Title        : METHOD SW846-8015C (DAI)
Last Update  : Tue May 17 15:45:13 2016
Response via : Initial Calibration
DataAcq Meth : MGH5288.M

Volume Inj.     : 2ul
Signal #1 Phase : ZB-624            Signal #2 Phase: RTX-1
Signal #1 Info  : 30mx0.53mmx3um    Signal #2 Info : 30mx0.32mmx3um
```

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	System Monitoring Compounds						
9) S	Hexanol	5.57	5.50	345209	794669	4511.712	4828.644
Spiked Amount	5000.000			Recovery	=	90.23%	96.57%
	Target Compounds						
1)	Methanol	1.12	0.89	77443	173699	5243.603	8544.414 #
2)	Ethanol	1.45	1.15	99445	217347	5314.412	6840.346
3)	Tert-Butyl Alcoh	2.01	1.65	142996	332018	5237.321	5085.028
4)	1-Propanol	2.51	2.01	128385	274702	5760.408	5575.380
5)	2-Propanol	1.75	1.41	105046	236654	5062.425	5660.735
6)	Isobutanol	3.31	2.94	147383	311633	5362.003	5023.429
7)	1-Butanol	3.76	3.42	143097	319465	5843.923	6171.241
8)	2-Butanol	2.94	2.57	129413	280976	5135.753	5686.138

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

SGS ACCUTEST JC21347

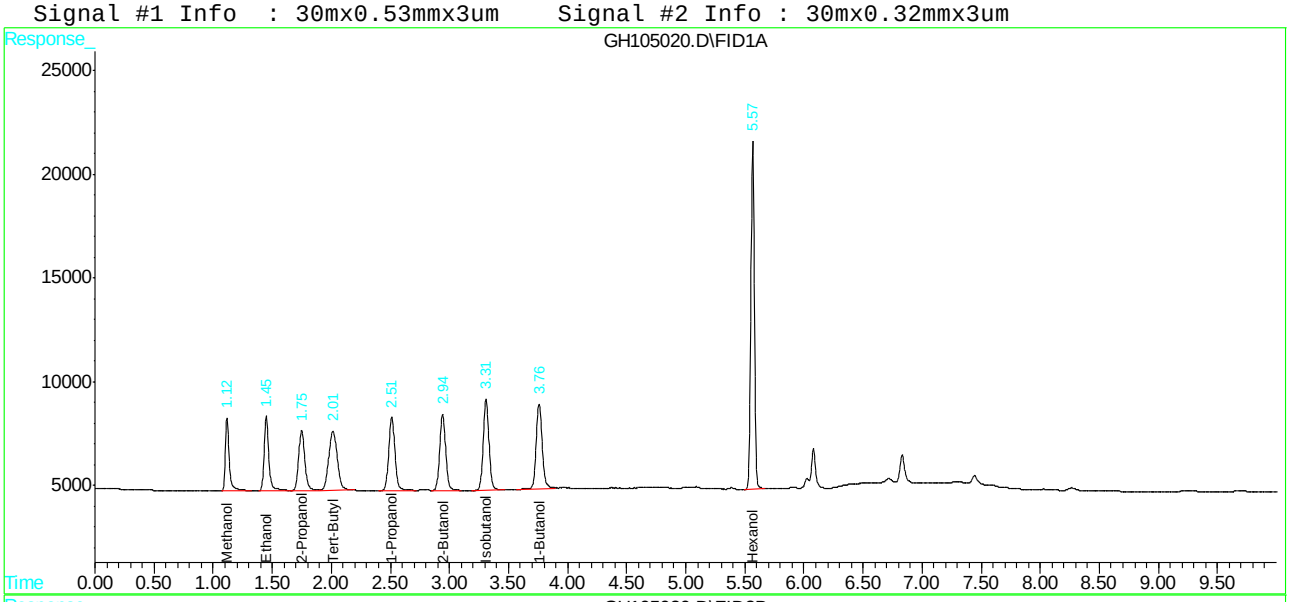
Quantitation Report (QT Reviewed)

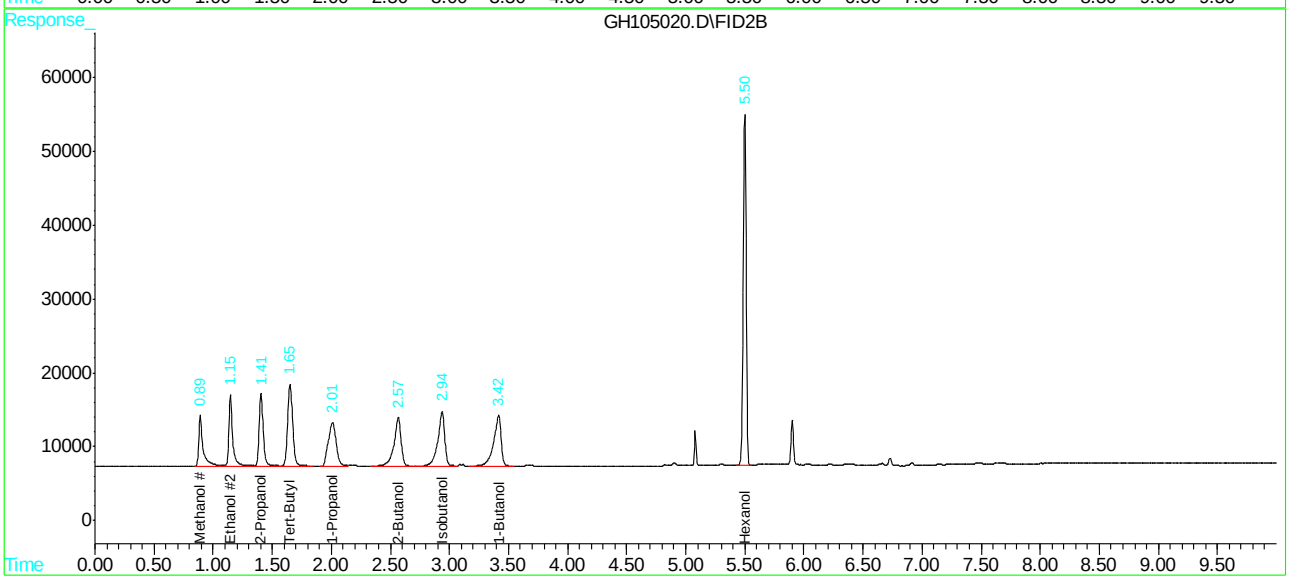
```
Data File : C:\HPCHEM\1\DATA\GH105020.D\FID1A.CH          Vial: 5
Acq On    : 17 May 2016   4:57 pm                     Operator: XULIU
Sample    : ICC5288-5000                              Inst    : GCGH
Misc      : GC48422,GGH5288,5.0,,,,1                  Multiplr: 1.00
IntFile   : AUTOINT1.E

Data File : C:\HPCHEM\1\DATA\GH105020.D\FID2B.CH          Vial: 5
Acq On    : 17 May 2016   5:19 pm                     Operator: XULIU
Sample    : ICC5288-5000                              Inst    : GCGH
Misc      : GC48422,GGH5288,5.0,,,,1                  Multiplr: 1.00
IntFile   : autoint2.e
Quant Time: May 18  7:09 2016  Quant Results File: MGH5288.RES

Quant Method : C:\HPCHEM\1\METHODS\MGH5288.M (Chemstation Integrator)
Title        : METHOD SW846-8015C (DAI)
Last Update  : Tue May 17 15:45:13 2016
Response via : Multiple Level Calibration
DataAcq Meth : MGH5288.M

Volume Inj.     : 2ul
Signal #1 Phase : ZB-624            Signal #2 Phase: RTX-1
Signal #1 Info  : 30mx0.53mmx3um    Signal #2 Info : 30mx0.32mmx3um
```





Quantitation Report (QT Reviewed)

```
Data File : C:\HPCHEM\1\DATA\GH105021.D\FID1A.CH          Vial: 6
Acq On    : 17 May 2016   5:19 pm                     Operator: XULIU
Sample    : IC5288-10000                              Inst    : GCGH
Misc      : GC48422,GGH5288,5.0,,,,1                  Multiplr: 1.00
IntFile   : AUTOINT1.E

Data File : C:\HPCHEM\1\DATA\GH105021.D\FID2B.CH          Vial: 6
Acq On    : 17 May 2016   5:33 pm                     Operator: XULIU
Sample    : IC5288-10000                              Inst    : GCGH
Misc      : GC48422,GGH5288,5.0,,,,1                  Multiplr: 1.00
IntFile   : autoint2.e
Quant Time: May 18  7:09 2016  Quant Results File: MGH5288.RES

Quant Method : C:\HPCHEM\1\METHODS\MGH5288.M (Chemstation Integrator)
Title        : METHOD SW846-8015C (DAI)
Last Update  : Tue May 17 15:45:13 2016
Response via : Initial Calibration
DataAcq Meth : MGH5288.M

Volume Inj.     : 2ul
Signal #1 Phase : ZB-624            Signal #2 Phase: RTX-1
Signal #1 Info  : 30mx0.53mmx3um    Signal #2 Info : 30mx0.32mmx3um
```

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	System Monitoring Compounds						
9) S	Hexanol	5.57	5.50	355196	814101	4642.238	4946.724
Spiked Amount	5000.000			Recovery	=	92.84%	98.93%
	Target Compounds						
1)	Methanol	1.12	0.89	157448	346407	10660.697	17040.107 #
2)	Ethanol	1.45	1.15	202728	432745	10833.939	13619.358
3)	Tert-Butyl Alcoh	2.02	1.65	294805	663970	10797.389	10169.042
4)	1-Propanol	2.51	2.02	257894	549862	11571.266	11160.064
5)	2-Propanol	1.75	1.41	213932	472748	10309.866	11308.075
6)	Isobutanol	3.31	2.95	298782	632695	10870.134	10198.859
7)	1-Butanol	3.76	3.41	289038	604299	11803.967	11673.499
8)	2-Butanol	2.94	2.57	262599	566046	10421.277	11455.123

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

SGS ACCUTEST JC21347

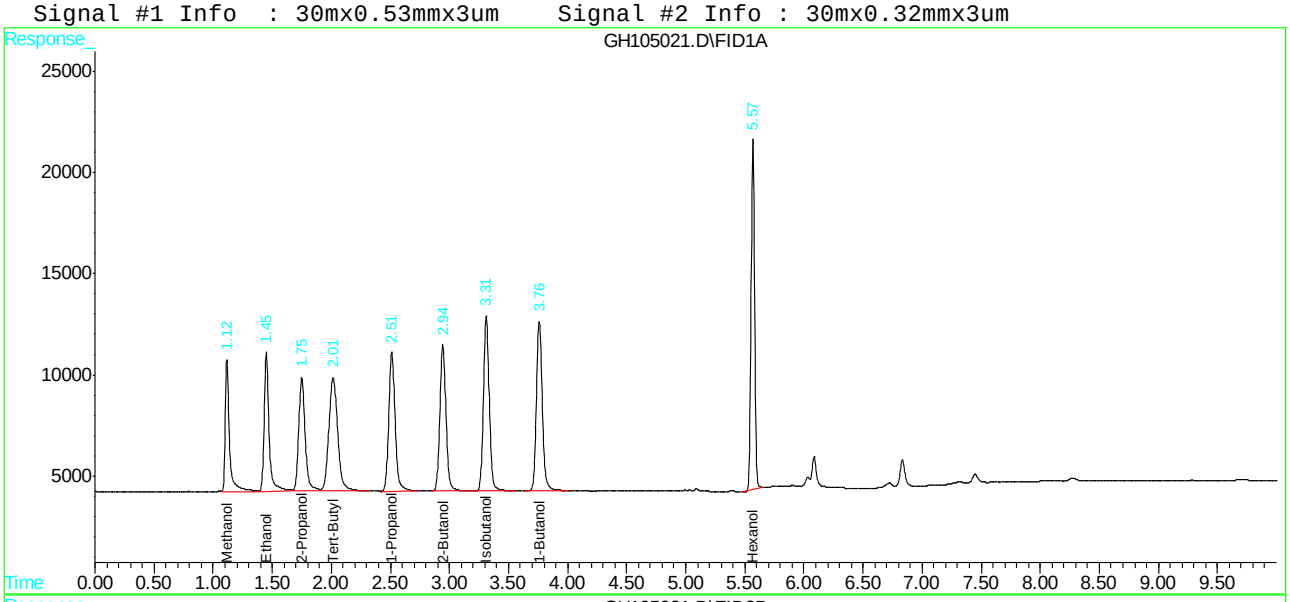
Quantitation Report (QT Reviewed)

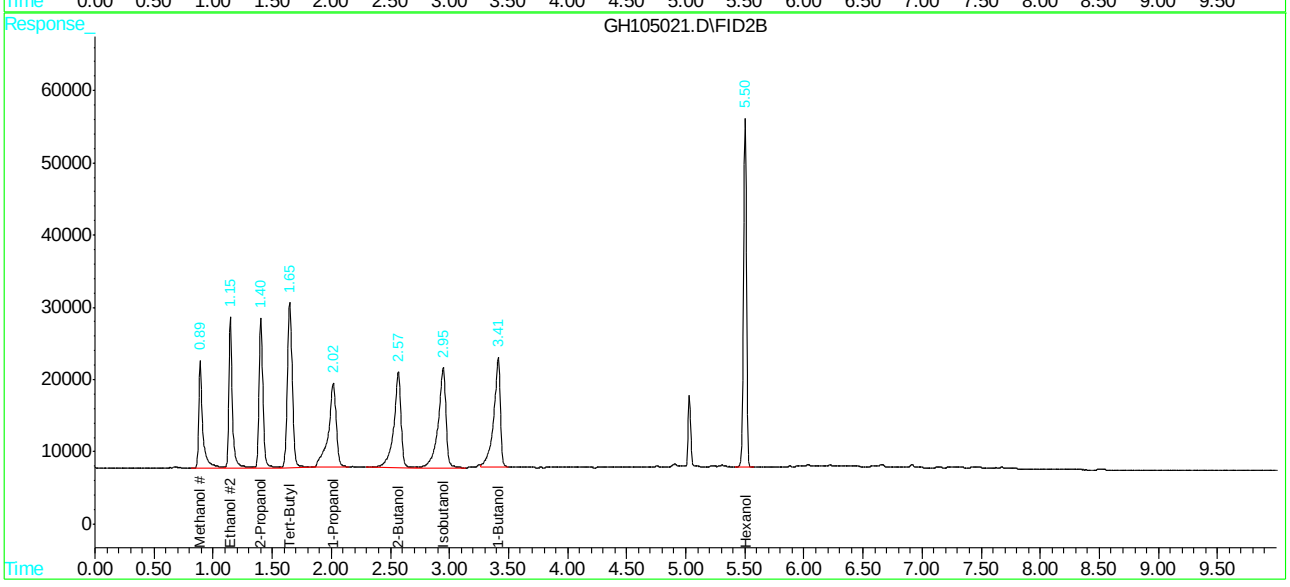
```
Data File : C:\HPCHEM\1\DATA\GH105021.D\FID1A.CH          Vial: 6
Acq On    : 17 May 2016   5:19 pm                     Operator: XULIU
Sample    : IC5288-10000                              Inst    : GCGH
Misc      : GC48422,GGH5288,5.0,,,,1                  Multiplr: 1.00
IntFile   : AUTOINT1.E

Data File : C:\HPCHEM\1\DATA\GH105021.D\FID2B.CH          Vial: 6
Acq On    : 17 May 2016   5:33 pm                     Operator: XULIU
Sample    : IC5288-10000                              Inst    : GCGH
Misc      : GC48422,GGH5288,5.0,,,,1                  Multiplr: 1.00
IntFile   : autoint2.e
Quant Time: May 18  7:09 2016  Quant Results File: MGH5288.RES

Quant Method : C:\HPCHEM\1\METHODS\MGH5288.M (Chemstation Integrator)
Title        : METHOD SW846-8015C (DAI)
Last Update  : Tue May 17 15:45:13 2016
Response via : Multiple Level Calibration
DataAcq Meth : MGH5288.M

Volume Inj.     : 2ul
Signal #1 Phase : ZB-624            Signal #2 Phase: RTX-1
Signal #1 Info  : 30mx0.53mmx3um    Signal #2 Info : 30mx0.32mmx3um
```





SGS ACCUTEST JC21347

Quantitation Report (QT Reviewed)

```
Data File : C:\HPCHEM\1\DATA\GH105022.D\FID1A.CH          Vial: 7
Acq On    : 17 May 2016   5:33 pm                     Operator: XULIU
Sample    : IC5288-50000                              Inst    : GCGH
Misc      : GC48422,GGH5288,5.0,,,,1                  Multiplr: 1.00
IntFile   : AUTOINT1.E

Data File : C:\HPCHEM\1\DATA\GH105022.D\FID2B.CH          Vial: 7
Acq On    : 17 May 2016   5:48 pm                     Operator: XULIU
Sample    : IC5288-50000                              Inst    : GCGH
Misc      : GC48422,GGH5288,5.0,,,,1                  Multiplr: 1.00
IntFile   : autoint2.e
Quant Time: May 18  7:10 2016  Quant Results File: MGH5288.RES

Quant Method : C:\HPCHEM\1\METHODS\MGH5288.M (Chemstation Integrator)
Title        : METHOD SW846-8015C (DAI)
Last Update  : Tue May 17 15:45:13 2016
Response via : Initial Calibration
DataAcq Meth : MGH5288.M

Volume Inj.     : 2ul
Signal #1 Phase : ZB-624            Signal #2 Phase: RTX-1
Signal #1 Info  : 30mx0.53mmx3um    Signal #2 Info : 30mx0.32mmx3um
```

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	System Monitoring Compounds						
9) S	Hexanol	5.57	5.50	412961	947054	5397.192	5754.582
Spiked Amount	5000.000			Recovery	=	107.94%	115.09%
	Target Compounds						
1)	Methanol	1.12	0.89	720543	1576706	48787.500	77559.774 #
2)	Ethanol	1.45	1.15	934936	1996365	49963.655	62829.557
3)	Tert-Butyl Alcoh	2.02	1.65	1362114	3066977	49888.133	46972.339
4)	1-Propanol	2.51	2.02	1197382	2577415	53724.608	52311.489
5)	2-Propanol	1.75	1.41	990575	2181490	47738.100	52180.934
6)	Isobutanol	3.31	2.94	1369639	2883211	49829.464	46476.511
7)	1-Butanol	3.76	3.42	1316221	2839006	53752.804	54842.255
8)	2-Butanol	2.94	2.57	1212229	2632402	48107.436	53272.148

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

SGS ACCUTEST JC21347

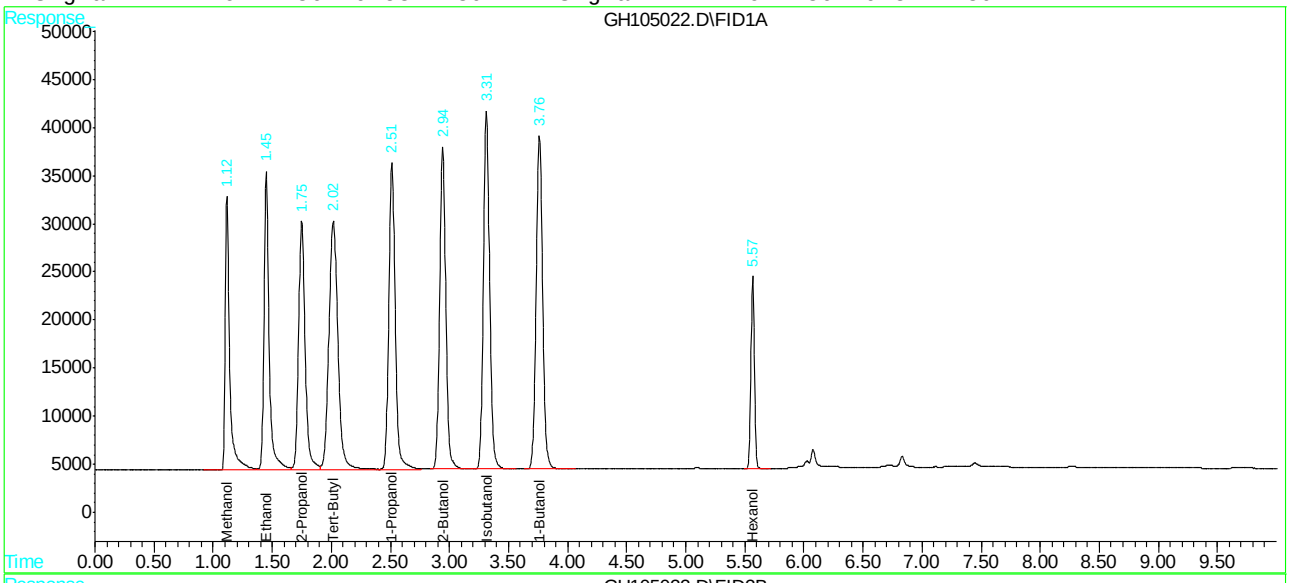
Quantitation Report (QT Reviewed)

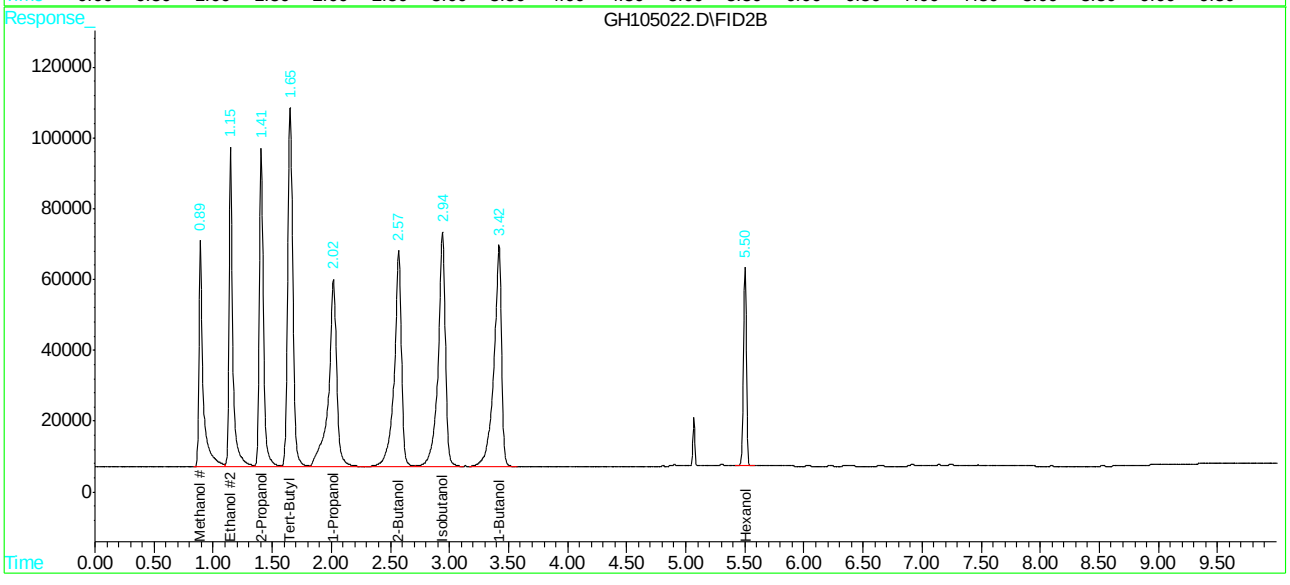
```
Data File : C:\HPCHEM\1\DATA\GH105022.D\FID1A.CH          Vial: 7
Acq On    : 17 May 2016   5:33 pm                     Operator: XULIU
Sample    : IC5288-50000                              Inst    : GCGH
Misc      : GC48422,GGH5288,5.0,,,,1                  Multiplr: 1.00
IntFile   : AUTOINT1.E

Data File : C:\HPCHEM\1\DATA\GH105022.D\FID2B.CH          Vial: 7
Acq On    : 17 May 2016   5:48 pm                     Operator: XULIU
Sample    : IC5288-50000                              Inst    : GCGH
Misc      : GC48422,GGH5288,5.0,,,,1                  Multiplr: 1.00
IntFile   : autoint2.e
Quant Time: May 18  7:10 2016  Quant Results File: MGH5288.RES

Quant Method : C:\HPCHEM\1\METHODS\MGH5288.M (Chemstation Integrator)
Title        : METHOD SW846-8015C (DAI)
Last Update  : Tue May 17 15:45:13 2016
Response via : Multiple Level Calibration
DataAcq Meth : MGH5288.M

Volume Inj.     : 2ul
Signal #1 Phase : ZB-624            Signal #2 Phase: RTX-1
Signal #1 Info  : 30mx0.53mmx3um    Signal #2 Info : 30mx0.32mmx3um
```





Quantitation Report (QT Reviewed)

```
Data File : C:\HPCHEM\1\DATA\GH105023.D\FID1A.CH          Vial: 8
Acq On    : 17 May 2016   5:48 pm                     Operator: XULIU
Sample    : IC5288-100000                             Inst    : GCGH
Misc      : GC48422,GGH5288,5.0,,,,1                  Multiplr: 1.00
IntFile   : AUTOINT1.E

Data File : C:\HPCHEM\1\DATA\GH105023.D\FID2B.CH          Vial: 8
Acq On    : 17 May 2016   6:02 pm                     Operator: XULIU
Sample    : IC5288-100000                             Inst    : GCGH
Misc      : GC48422,GGH5288,5.0,,,,1                  Multiplr: 1.00
IntFile   : autoint2.e
Quant Time: May 18  7:10 2016  Quant Results File: MGH5288.RES

Quant Method : C:\HPCHEM\1\METHODS\MGH5288.M (Chemstation Integrator)
Title        : METHOD SW846-8015C (DAI)
Last Update  : Tue May 17 15:45:13 2016
Response via : Initial Calibration
DataAcq Meth : MGH5288.M

Volume Inj.     : 2ul
Signal #1 Phase : ZB-624            Signal #2 Phase: RTX-1
Signal #1 Info  : 30mx0.53mmx3um    Signal #2 Info : 30mx0.32mmx3um
```

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	System Monitoring Compounds						
9) S	Hexanol	5.57	5.50	259897	594005	3396.729	3609.352
	Spiked Amount 5000.000			Recovery	=	67.93%	72.19%
	Target Compounds						
1)	Methanol	1.12	0.89	1381464	3140971	93538.113	154507.580 #
2)	Ethanol	1.45	1.15	1913963	4176473	102283.537	131441.900
3)	Tert-Butyl Alcoh	2.02	1.66	2957875	6562015	108333.721	100500.651
4)	1-Propanol	2.51	2.03	2510870	5487726	112658.677	111379.470
5)	2-Propanol	1.76	1.41	2027830	4596795	97725.857	109954.692
6)	Isobutanol	3.32	2.96f	2927116	6160124	106492.774	99299.394
7)	1-Butanol	3.76	3.42	2754661	5940276	112496.937	114750.761
8)	2-Butanol	2.95	2.57	2539551	5573181	100782.352	112784.937

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

SGS ACCUTEST JC21347

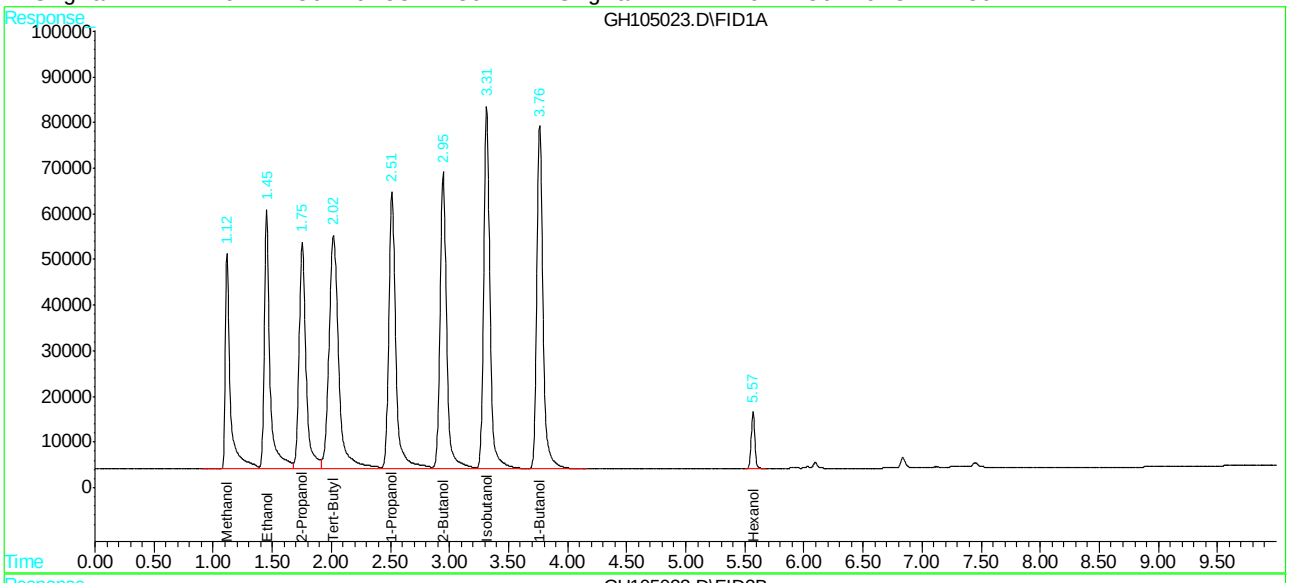
Quantitation Report (QT Reviewed)

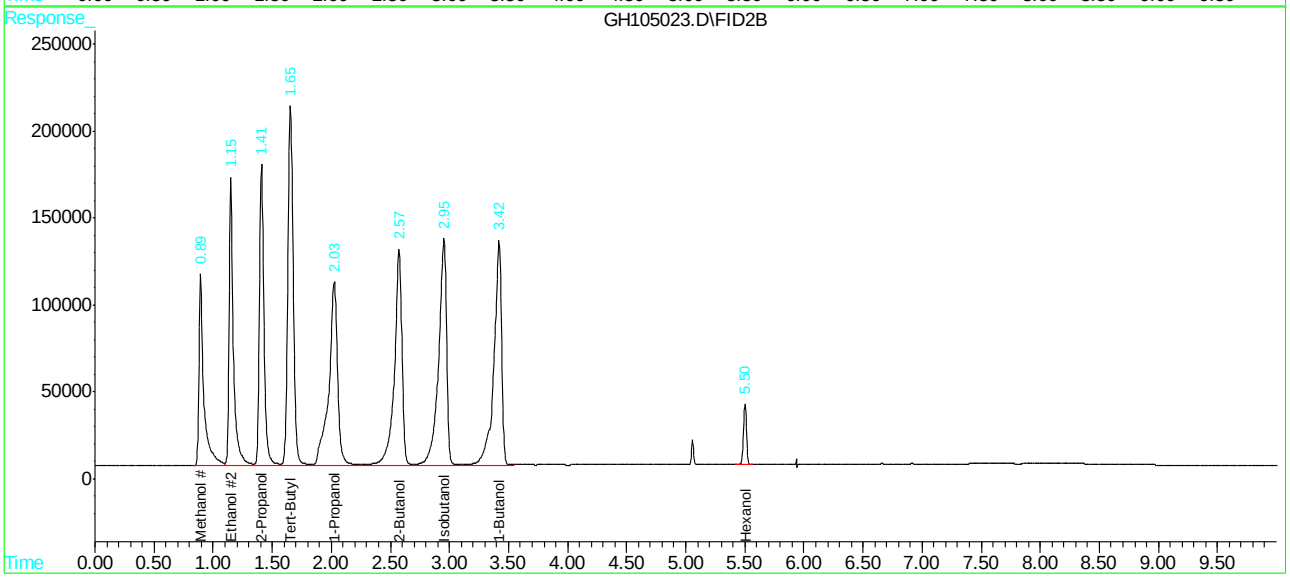
```
Data File : C:\HPCHEM\1\DATA\GH105023.D\FID1A.CH          Vial: 8
Acq On    : 17 May 2016   5:48 pm                     Operator: XULIU
Sample    : IC5288-100000                             Inst    : GCGH
Misc      : GC48422,GGH5288,5.0,,,,1                  Multiplr: 1.00
IntFile   : AUTOINT1.E

Data File : C:\HPCHEM\1\DATA\GH105023.D\FID2B.CH          Vial: 8
Acq On    : 17 May 2016   6:02 pm                     Operator: XULIU
Sample    : IC5288-100000                             Inst    : GCGH
Misc      : GC48422,GGH5288,5.0,,,,1                  Multiplr: 1.00
IntFile   : autoint2.e
Quant Time: May 18  7:10 2016  Quant Results File: MGH5288.RES

Quant Method : C:\HPCHEM\1\METHODS\MGH5288.M (Chemstation Integrator)
Title        : METHOD SW846-8015C (DAI)
Last Update  : Tue May 17 15:45:13 2016
Response via : Multiple Level Calibration
DataAcq Meth : MGH5288.M

Volume Inj.     : 2ul
Signal #1 Phase : ZB-624            Signal #2 Phase: RTX-1
Signal #1 Info  : 30mx0.53mmx3um    Signal #2 Info : 30mx0.32mmx3um
```





Quantitation Report (QT Reviewed)

```
Data File : C:\HPCHEM\1\DATA\GH105024.D\FID1A.CH          Vial: 9
Acq On    : 17 May 2016   6:02 pm                     Operator: XULIU
Sample    : ICV5288-5000                              Inst    : GCGH
Misc      : GC48422,GGH5288,5.0,,,,1                  Multiplr: 1.00
IntFile   : AUTOINT1.E

Data File : C:\HPCHEM\1\DATA\GH105024.D\FID2B.CH          Vial: 9
Acq On    : 17 May 2016   6:24 pm                     Operator: XULIU
Sample    : ICV5288-5000                              Inst    : GCGH
Misc      : GC48422,GGH5288,5.0,,,,1                  Multiplr: 1.00
IntFile   : autoint2.e
Quant Time: May 18  9:07 2016  Quant Results File: MGH5288.RES

Quant Method : C:\HPCHEM\1\METHODS\MGH5288.M (Chemstation Integrator)
Title        : METHOD SW846-8015C (DAI)
Last Update  : Wed May 18 08:55:49 2016
Response via : Initial Calibration
DataAcq Meth : MGH5288.M

Volume Inj.     : 2ul
Signal #1 Phase : ZB-624            Signal #2 Phase: RTX-1
Signal #1 Info  : 30mx0.53mmx3um    Signal #2 Info : 30mx0.32mmx3um
```

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	System Monitoring Compounds						
9) S	Hexanol	5.57	5.50	349710	790800	5173.481	5090.525
Spiked Amount	5000.000			Recovery	=	103.47%	101.81%
	Target Compounds						
1)	Methanol	1.12	0.90	65127	172731	4212.940	5355.287
2)	Ethanol	1.45	1.16	100143	226641	5284.554	5685.787
3)	Tert-Butyl Alcoh	2.02	1.66	149854	332921	5288.674	5236.015
4)	1-Propanol	2.52	2.02	127682	285106	5248.735	5607.628
5)	2-Propanol	1.75	1.41	105368	238229	5286.625	5261.345
6)	Isobutanol	3.31	2.94	151110	333033	5252.180	5439.828
7)	1-Butanol	3.76	3.42	145592	326188	5097.649	4929.542
8)	2-Butanol	2.95	2.57	133016	304299	5188.956	5605.638

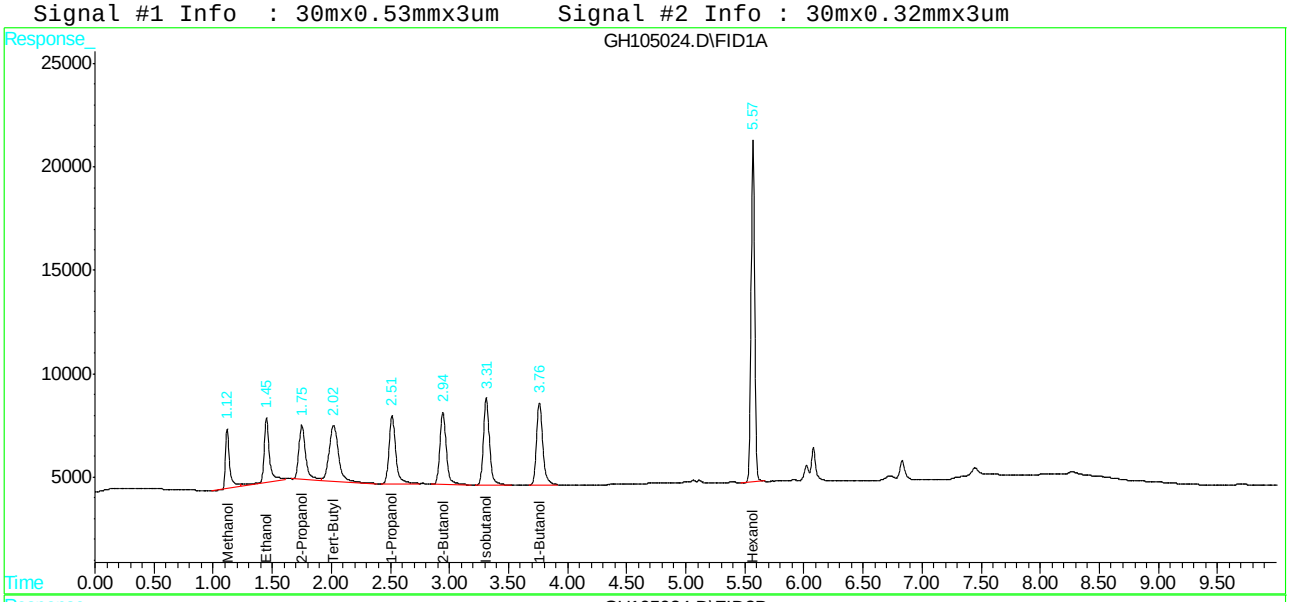
Quantitation Report (QT Reviewed)

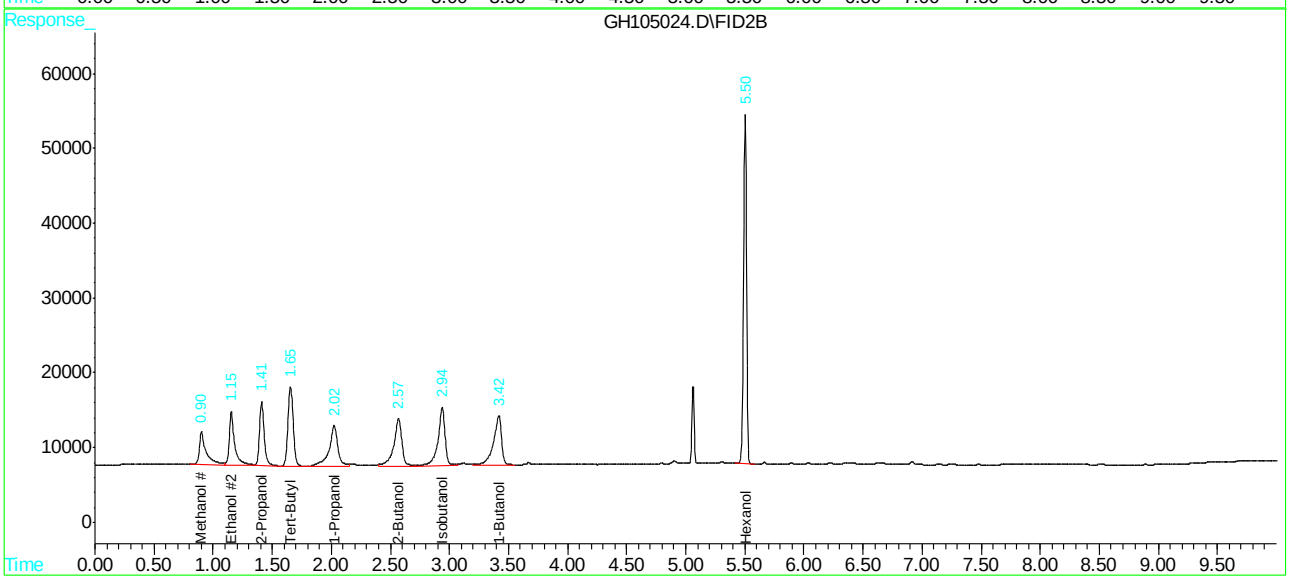
```
Data File : C:\HPCHEM\1\DATA\GH105024.D\FID1A.CH          Vial: 9
Acq On    : 17 May 2016   6:02 pm                     Operator: XULIU
Sample    : ICV5288-5000                              Inst    : GCGH
Misc      : GC48422,GGH5288,5.0,,,,1                  Multiplr: 1.00
IntFile   : AUTOINT1.E

Data File : C:\HPCHEM\1\DATA\GH105024.D\FID2B.CH          Vial: 9
Acq On    : 17 May 2016   6:24 pm                     Operator: XULIU
Sample    : ICV5288-5000                              Inst    : GCGH
Misc      : GC48422,GGH5288,5.0,,,,1                  Multiplr: 1.00
IntFile   : autoint2.e
Quant Time: May 18  9:07 2016  Quant Results File: MGH5288.RES

Quant Method : C:\HPCHEM\1\METHODS\MGH5288.M (Chemstation Integrator)
Title        : METHOD SW846-8015C (DAI)
Last Update  : Wed May 18 08:55:49 2016
Response via : Multiple Level Calibration
DataAcq Meth : MGH5288.M

Volume Inj.     : 2ul
Signal #1 Phase : ZB-624            Signal #2 Phase: RTX-1
Signal #1 Info  : 30mx0.53mmx3um    Signal #2 Info : 30mx0.32mmx3um
```





SGS ACCUTEST JC21347

Quantitation Report (QT Reviewed)

```
Data File : C:\HPCHEM\1\DATA\GH105338.D\FID1A.CH          Vial: 95
Acq On    :  2 Jun 2016  11:49 am                     Operator: XULIU
Sample    : CC5288-10000                              Inst    : GCGH
Misc      : GC48528,GGH5308,5.0,,,,1                  Multiplr: 1.00
IntFile   : AUTOINT1.E

Data File : C:\HPCHEM\1\DATA\GH105338.D\FID2B.CH          Vial: 95
Acq On    :  2 Jun 2016  12:04 pm                     Operator: XULIU
Sample    : CC5288-10000                              Inst    : GCGH
Misc      : GC48528,GGH5308,5.0,,,,1                  Multiplr: 1.00
IntFile   : autoint2.e
Quant Time: Jun  2 13:28 2016  Quant Results File: MGH5288.RES

Quant Method : C:\HPCHEM\1\METHODS\MGH5288.M (Chemstation Integrator)
Title        : METHOD SW846-8015C (DAI)
Last Update  : Thu Jun 02 13:28:17 2016
Response via : Initial Calibration
DataAcq Meth : MGH5288.M

Volume Inj.     : 2ul
Signal #1 Phase : ZB-624            Signal #2 Phase: RTX-1
Signal #1 Info  : 30mx0.53mmx3um    Signal #2 Info : 30mx0.32mmx3um
```

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	System Monitoring Compounds						
9) S	Hexanol	5.57	5.45	343841	788537	5086.654	5075.951
Spiked Amount	5000.000			Recovery	=	101.73%	101.52%
	Target Compounds						
1)	Methanol	1.12	0.89	148501	324305	9606.315	10054.649
2)	Ethanol	1.45	1.14	205134	435160	10824.878	10916.969
3)	Tert-Butyl Alcoh	2.02	1.64	299323	697645	10563.784	10972.203
4)	1-Propanol	2.51	1.98	279247	560827	11479.296	11030.673
5)	2-Propanol	1.75	1.40	212066	482843	10639.989	10663.699
6)	Isobutanol	3.31	2.93	328778	659232	11427.429	10768.051
7)	1-Butanol	3.76	3.40	306342	628821	10726.007	9503.115
8)	2-Butanol	2.94	2.55	282302	583191	11012.607	10743.245

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

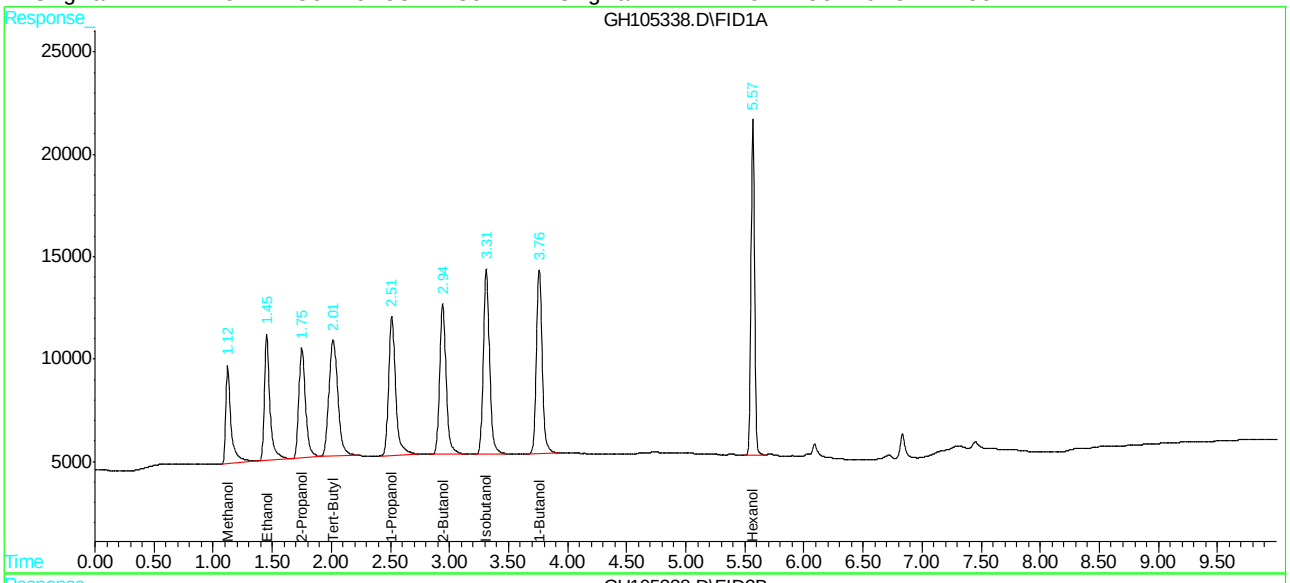
Quantitation Report (QT Reviewed)

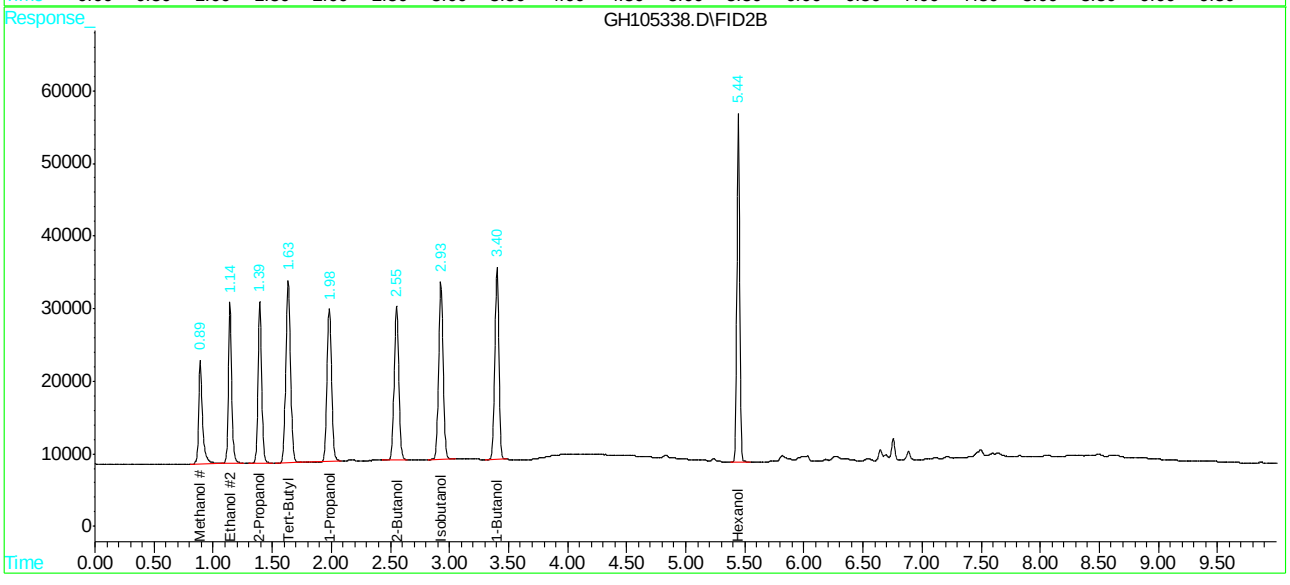
```
Data File : C:\HPCHEM\1\DATA\GH105338.D\FID1A.CH          Vial: 95
Acq On    :  2 Jun 2016  11:49 am                     Operator: XULIU
Sample    : CC5288-10000                              Inst    : GCGH
Misc      : GC48528,GGH5308,5.0,,,,1                  Multiplr: 1.00
IntFile   : AUTOINT1.E

Data File : C:\HPCHEM\1\DATA\GH105338.D\FID2B.CH          Vial: 95
Acq On    :  2 Jun 2016  12:04 pm                     Operator: XULIU
Sample    : CC5288-10000                              Inst    : GCGH
Misc      : GC48528,GGH5308,5.0,,,,1                  Multiplr: 1.00
IntFile   : autoint2.e
Quant Time: Jun  2 13:28 2016  Quant Results File: MGH5288.RES

Quant Method : C:\HPCHEM\1\METHODS\MGH5288.M (Chemstation Integrator)
Title        : METHOD SW846-8015C (DAI)
Last Update  : Thu Jun 02 13:28:17 2016
Response via : Multiple Level Calibration
DataAcq Meth : MGH5288.M

Volume Inj.     : 2ul
Signal #1 Phase : ZB-624            Signal #2 Phase: RTX-1
Signal #1 Info  : 30mx0.53mmx3um    Signal #2 Info : 30mx0.32mmx3um
```





Quantitation Report (QT Reviewed)

```
Data File : C:\HPCHEM\1\DATA\GH105347.D\FID1A.CH          Vial: 95
Acq On    :  2 Jun 2016   2:59 pm                     Operator: XULIU
Sample    : CC5288-5000                               Inst    : GCGH
Misc      : GC48539,GGH5309,5.0,,,,1                  Multiplr: 1.00
IntFile   : AUTOINT1.E

Data File : C:\HPCHEM\1\DATA\GH105347.D\FID2B.CH          Vial: 95
Acq On    :  2 Jun 2016   3:18 pm                     Operator: XULIU
Sample    : CC5288-5000                               Inst    : GCGH
Misc      : GC48539,GGH5309,5.0,,,,1                  Multiplr: 1.00
IntFile   : autoint2.e
Quant Time: Jun  2 15:27 2016  Quant Results File: MGH5288.RES

Quant Method : C:\HPCHEM\1\METHODS\MGH5288.M (Chemstation Integrator)
Title        : METHOD SW846-8015C (DAI)
Last Update  : Thu Jun 02 15:27:26 2016
Response via : Initial Calibration
DataAcq Meth : MGH5288.M

Volume Inj.     : 2ul
Signal #1 Phase : ZB-624            Signal #2 Phase: RTX-1
Signal #1 Info  : 30mx0.53mmx3um    Signal #2 Info : 30mx0.32mmx3um
```

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	System Monitoring Compounds						
9) S	Hexanol	5.56	5.44	307747	684847	4552.689	4408.486
Spiked Amount	5000.000			Recovery	=	91.05%	88.17%
	Target Compounds						
1)	Methanol	1.12	0.90	71267	140921	4610.170	4369.082
2)	Ethanol	1.45	1.15	107586	205734	5677.279	5161.305
3)	Tert-Butyl Alcoh	2.00	1.64	160189	352640	5653.438	5546.147
4)	1-Propanol	2.50	1.99	140955	296329	5794.394	5828.372
5)	2-Propanol	1.74	1.40	110033	233547	5520.711	5157.948
6)	Isobutanol	3.30	2.93	163222	340807	5673.142	5566.817
7)	1-Butanol	3.75	3.41	159167	326676	5572.957	4936.913
8)	2-Butanol	2.93	2.56	141554	301661	5522.035	5557.047

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

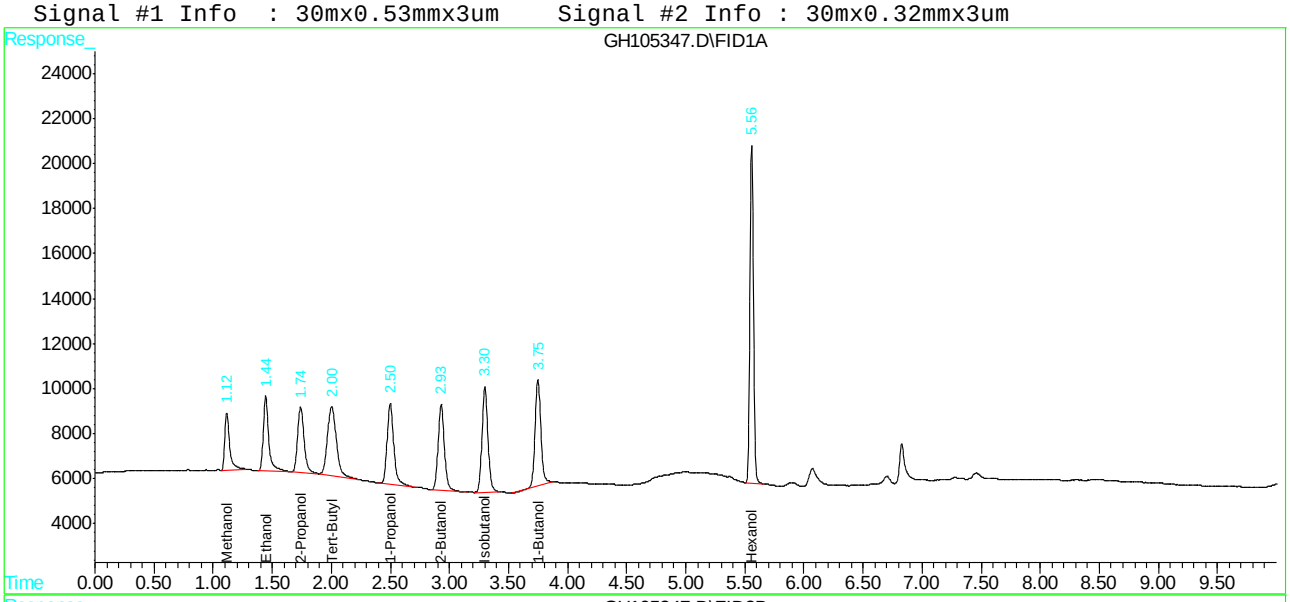
Quantitation Report (QT Reviewed)

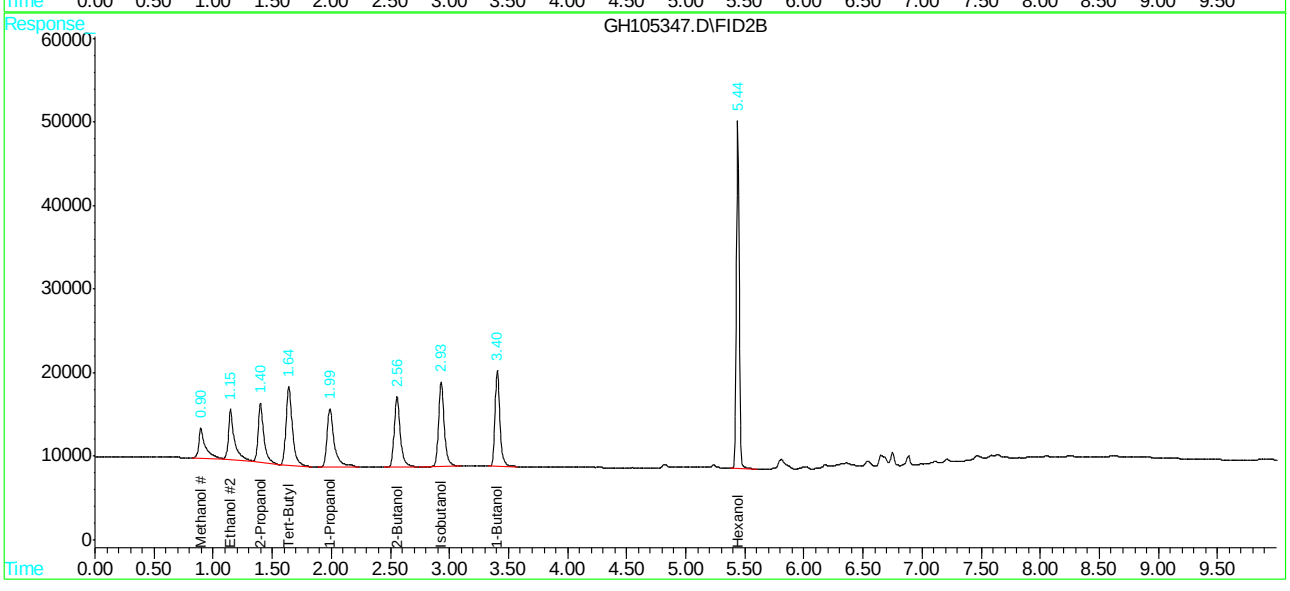
```
Data File : C:\HPCHEM\1\DATA\GH105347.D\FID1A.CH          Vial: 95
Acq On    :  2 Jun 2016   2:59 pm                     Operator: XULIU
Sample    : CC5288-5000                               Inst    : GCGH
Misc      : GC48539,GGH5309,5.0,,,,1                  Multiplr: 1.00
IntFile   : AUTOINT1.E

Data File : C:\HPCHEM\1\DATA\GH105347.D\FID2B.CH          Vial: 95
Acq On    :  2 Jun 2016   3:18 pm                     Operator: XULIU
Sample    : CC5288-5000                               Inst    : GCGH
Misc      : GC48539,GGH5309,5.0,,,,1                  Multiplr: 1.00
IntFile   : autoint2.e
Quant Time: Jun  2 15:27 2016  Quant Results File: MGH5288.RES

Quant Method : C:\HPCHEM\1\METHODS\MGH5288.M (Chemstation Integrator)
Title        : METHOD SW846-8015C (DAI)
Last Update  : Thu Jun 02 15:27:26 2016
Response via : Multiple Level Calibration
DataAcq Meth : MGH5288.M

Volume Inj.     : 2ul
Signal #1 Phase : ZB-624            Signal #2 Phase: RTX-1
Signal #1 Info  : 30mx0.53mmx3um    Signal #2 Info : 30mx0.32mmx3um
```





Quantitation Report (QT Reviewed)

```
Data File : C:\HPCHEM\1\DATA\GH105349.D\FID1A.CH          Vial: 92
Acq On    :  3 Jun 2016   8:44 am                     Operator: XULIU
Sample    : CC5288-5000                               Inst    : GCGH
Misc      : GC48540,GGH5310,5.0,,,,1                  Multiplr: 1.00
IntFile   : AUTOINT1.E

Data File : C:\HPCHEM\1\DATA\GH105349.D\FID2B.CH          Vial: 92
Acq On    :  3 Jun 2016   8:58 am                     Operator: XULIU
Sample    : CC5288-5000                               Inst    : GCGH
Misc      : GC48540,GGH5310,5.0,,,,1                  Multiplr: 1.00
IntFile   : autoint2.e
Quant Time: Jun  3 10:36 2016  Quant Results File: MGH5288.RES

Quant Method : C:\HPCHEM\1\METHODS\MGH5288.M (Chemstation Integrator)
Title        : METHOD SW846-8015C (DAI)
Last Update  : Fri Jun 03 10:35:55 2016
Response via : Initial Calibration
DataAcq Meth : MGH5288.M

Volume Inj.     : 2ul
Signal #1 Phase : ZB-624            Signal #2 Phase: RTX-1
Signal #1 Info  : 30mx0.53mmx3um    Signal #2 Info : 30mx0.32mmx3um
```

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	System Monitoring Compounds						
9) S	Hexanol	5.57	5.45	351639	798712	5202.012	5141.456
Spiked Amount	5000.000			Recovery	=	104.04%	102.83%
	Target Compounds						
1)	Methanol	1.14	0.89	76254	169609	4932.751	5258.500
2)	Ethanol	1.47	1.14	111058	227181	5860.531	5699.349
3)	Tert-Butyl Alcoh	2.03	1.63	162522	365021	5735.779	5740.872
4)	1-Propanol	2.53	1.98	142110	298463	5841.874	5870.342
5)	2-Propanol	1.76	1.39	117178	251708	5879.188	5559.029
6)	Isobutanol	3.32	2.93	165218	342682	5742.506	5597.443
7)	1-Butanol	3.77	3.40	152461	329333	5338.142	4977.074
8)	2-Butanol	2.95	2.55	141742	305339	5529.360	5624.792

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

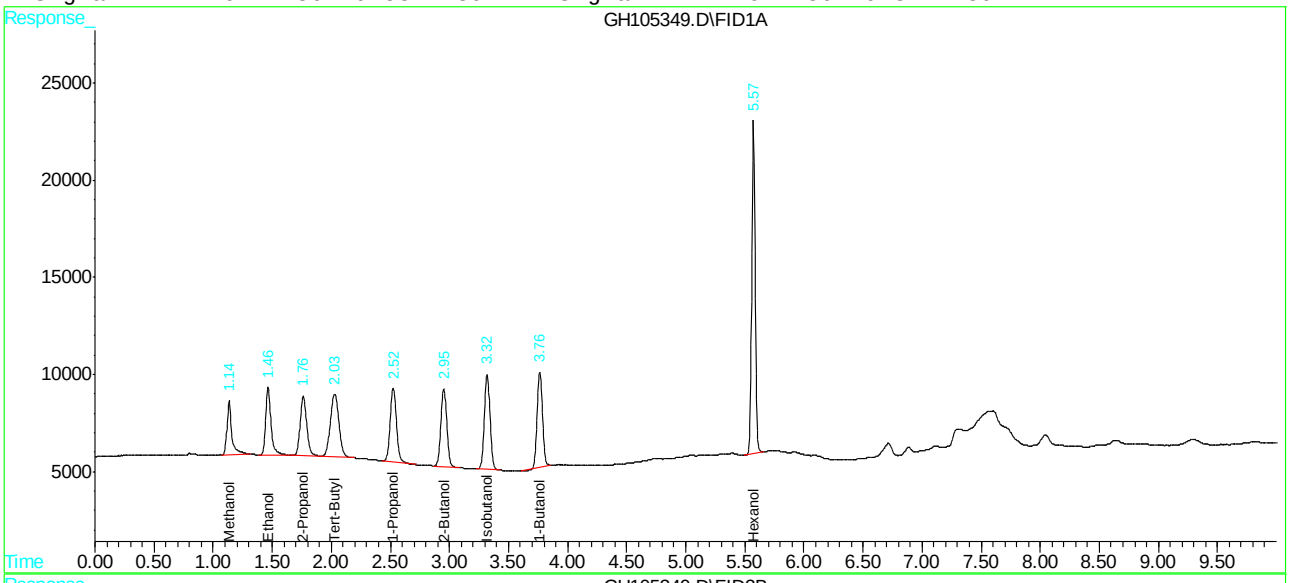
Quantitation Report (QT Reviewed)

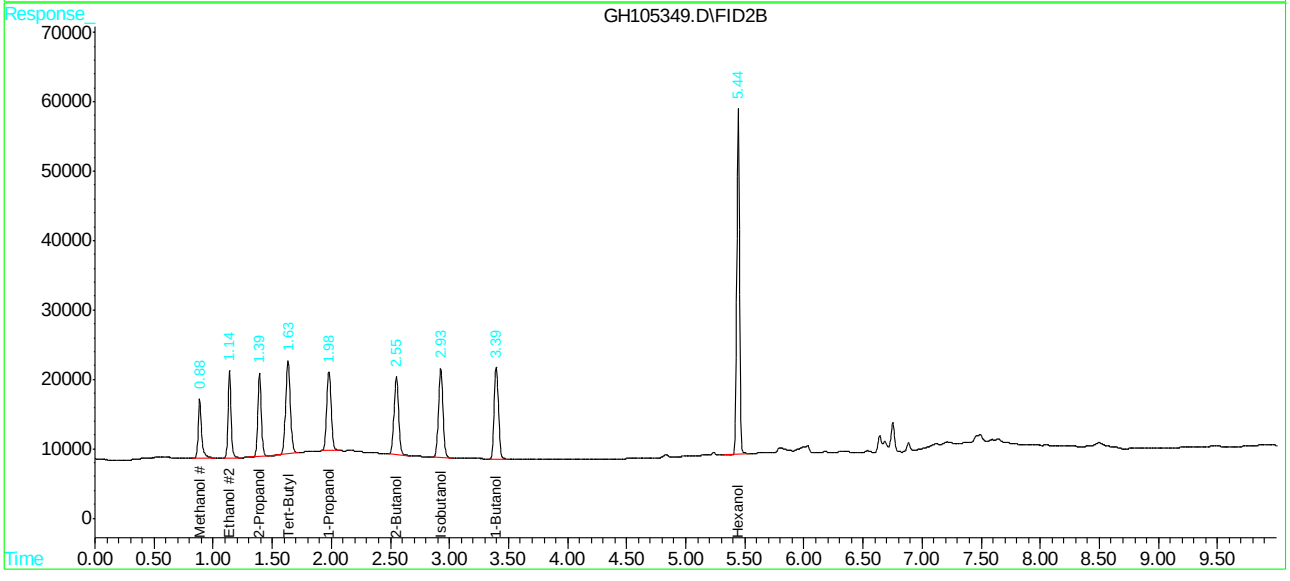
```
Data File : C:\HPCHEM\1\DATA\GH105349.D\FID1A.CH          Vial: 92
Acq On    :  3 Jun 2016   8:44 am                     Operator: XULIU
Sample    : CC5288-5000                               Inst    : GCGH
Misc      : GC48540,GGH5310,5.0,,,,1                  Multiplr: 1.00
IntFile   : AUTOINT1.E

Data File : C:\HPCHEM\1\DATA\GH105349.D\FID2B.CH          Vial: 92
Acq On    :  3 Jun 2016   8:58 am                     Operator: XULIU
Sample    : CC5288-5000                               Inst    : GCGH
Misc      : GC48540,GGH5310,5.0,,,,1                  Multiplr: 1.00
IntFile   : autoint2.e
Quant Time: Jun  3 10:36 2016  Quant Results File: MGH5288.RES

Quant Method : C:\HPCHEM\1\METHODS\MGH5288.M (Chemstation Integrator)
Title        : METHOD SW846-8015C (DAI)
Last Update  : Fri Jun 03 10:35:55 2016
Response via : Multiple Level Calibration
DataAcq Meth : MGH5288.M

Volume Inj.     : 2ul
Signal #1 Phase : ZB-624            Signal #2 Phase: RTX-1
Signal #1 Info  : 30mx0.53mmx3um    Signal #2 Info : 30mx0.32mmx3um
```





Quantitation Report (QT Reviewed)

```
Data File : C:\HPCHEM\1\DATA\GH105356.D\FID1A.CH          Vial: 95
Acq On    :  3 Jun 2016   1:14 pm                     Operator: XULIU
Sample    : CC5288-10000                              Inst    : GCGH
Misc      : GC48540,GGH5310,5.0,,,,1                  Multiplr: 1.00
IntFile   : AUTOINT1.E

Data File : C:\HPCHEM\1\DATA\GH105356.D\FID2B.CH          Vial: 95
Acq On    :  3 Jun 2016   1:32 pm                     Operator: XULIU
Sample    : CC5288-10000                              Inst    : GCGH
Misc      : GC48540,GGH5310,5.0,,,,1                  Multiplr: 1.00
IntFile   : autoint2.e
Quant Time: Jun  6 10:09 2016  Quant Results File: MGH5288.RES

Quant Method : C:\HPCHEM\1\METHODS\MGH5288.M (Chemstation Integrator)
Title        : METHOD SW846-8015C (DAI)
Last Update  : Mon Jun 06 10:09:39 2016
Response via : Initial Calibration
DataAcq Meth : MGH5288.M

Volume Inj.     : 2ul
Signal #1 Phase : ZB-624            Signal #2 Phase: RTX-1
Signal #1 Info  : 30mx0.53mmx3um    Signal #2 Info : 30mx0.32mmx3um
```

Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
System Monitoring Compounds						
9) S Hexanol	5.56	5.47	334828	733015	4953.324	4718.549
Spiked Amount 5000.000			Recovery	=	99.07%	94.37%
Target Compounds						
1) Methanol	1.12	0.88	131053	295993	8477.612	9176.890
2) Ethanol	1.45	1.14	206201	416364	10881.191	10445.413
3) Tert-Butyl Alcoh	2.01	1.63	308672	674964	10893.724	10615.486
4) 1-Propanol	2.51	1.98	276289	585486	11357.684	11515.674
5) 2-Propanol	1.74	1.39	217798	459747	10927.594	10153.617
6) Isobutanol	3.31	2.93	321163	649765	11162.751	10613.399
7) 1-Butanol	3.75	3.40	296068	615092	10366.283	9295.632
8) 2-Butanol	2.94	2.55	274458	575764	10706.610	10606.438

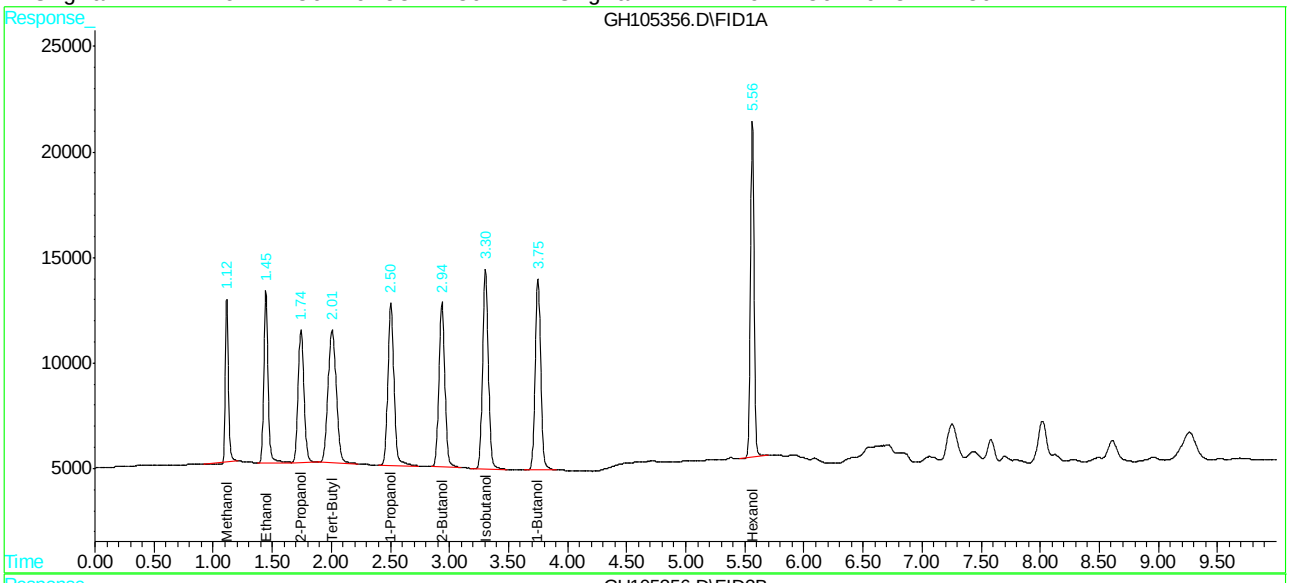
Quantitation Report (QT Reviewed)

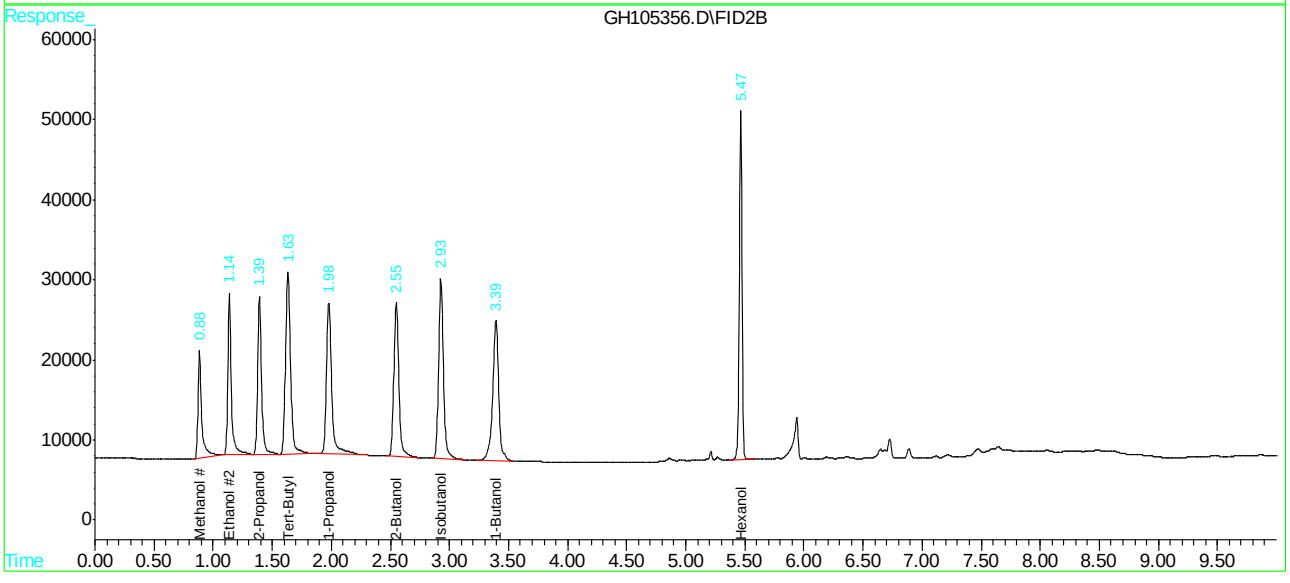
```
Data File : C:\HPCHEM\1\DATA\GH105356.D\FID1A.CH          Vial: 95
Acq On    :  3 Jun 2016   1:14 pm                     Operator: XULIU
Sample    : CC5288-10000                              Inst    : GCGH
Misc      : GC48540,GGH5310,5.0,,,,1                  Multiplr: 1.00
IntFile   : AUTOINT1.E

Data File : C:\HPCHEM\1\DATA\GH105356.D\FID2B.CH          Vial: 95
Acq On    :  3 Jun 2016   1:32 pm                     Operator: XULIU
Sample    : CC5288-10000                              Inst    : GCGH
Misc      : GC48540,GGH5310,5.0,,,,1                  Multiplr: 1.00
IntFile   : autoint2.e
Quant Time: Jun  6 10:09 2016  Quant Results File: MGH5288.RES

Quant Method : C:\HPCHEM\1\METHODS\MGH5288.M (Chemstation Integrator)
Title        : METHOD SW846-8015C (DAI)
Last Update  : Mon Jun 06 10:09:39 2016
Response via : Multiple Level Calibration
DataAcq Meth : MGH5288.M

Volume Inj.     : 2ul
Signal #1 Phase : ZB-624            Signal #2 Phase: RTX-1
Signal #1 Info  : 30mx0.53mmx3um    Signal #2 Info : 30mx0.32mmx3um
```





SGS ACCUTEST

VOLATILE ANALYSIS LOG

Batch ID: GGH 5288

Print Analyst Name: Xu Gu

Analyst Signature:

Date: 5/17/16

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
015M4408	All Sur (5/15)	2000 ppm
015M4510	All STD (5/15)	100 ppm
015M4530	All SD012 (5/15)	100 ppm

Columns: ZB624 / RTX-1 (30m x0.53mm x3μm) (30m x0.32mm x3μm)

Method 8015C All

Initial Cal. Method m Cal 5288

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: **Date:** 5/19/16

R	Data File	Sample ID	Test	MTX	Vial #	ALS #	Samp. Amt (ml or g)	MOH amt. (ul)	Secondary dilution	L+	IS	SU	Status (Data)	Comments	pH* < 2
	Cal 105015	ZB					1					✓	not well		
	105016	ZB					1					✓	ok		
	105017	ZC5288-100					1					✓	ok	10μl STD, 4μl SW / 10 ml H2O	
	105018	ZC5288-500					1					✓	ok	5μl STD, 1μl SW / 10 ml H2O	
	105019	ZC5288-1000					1					✓	ok	10μl STD, 2.5μl SW / ml H2O	
	105020	ZC5288-5000					1					✓	ok	50μl STD, 2.5μl SW / ml H2O	
	105021	ZC5288-10,000					1					✓	ok	100μl STD, 2.5μl SW / ml H2O	
	105022	ZC5288-50,000					1					✓	ok	500μl STD, 3μl SW / ml H2O	
	105023	ZC5288-100,000					1					✓	ok	1000μl STD, 4μl SW / ml H2O	
	105024	ZC5288-50000					1					✓	ok	2.5μl SW 50μl STD (1:10) / ml H2O	

5/17

MTX = Matrix Designate W for water, S for soil, O for oil. L+ = Library Search. IS = Internal Standard Area. SU = Surrogate.
Sample Amt = Volume (ML) or Weight (g); MOH amt. = volume (ul) extract injected * IF pH > 2, comment on sample result.
All strike outs must be initialed, dated and reason code applied as follows: 1 = reviewer correction error; 2 = transcription error; 3 = computer miscalculation; 4 = analyst's correction error

Form: OR001-10
Rev. Date: 1/19/16

SGS ACCUTEST

VOLATILE ANALYSIS LOG

Batch ID: GGH5308

Print Analyst Name: Xu Lin

Date: 6/2/16

Analyst Signature:

Columns: 2B6VX / RTX-1 (30mx0.53mmx3μm) (30mx0.32mmx3μm)

Method: 8015C GRO

Initial Cal. Method: MGH5288

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
015W4137	ACL SUR (6/15)	2000ppm
015W4138	ACL STD (6/15)	100ppm
015W4139	ACL STD(L) (6/15)	10 ppm

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: Nazn Date: 6/3/16

R	Data File	Sample ID	Test	MTX	Vial #	ALS #	Samp. Amt (ml or g)	MOH amt. (ul)	Secondary dilution	L+	IS	SU	Status (Data)	Comments	pH* <2
	GH105328	2B										✓	OK		
	105329	CC5288-5000										✓	OK	5000ppm/ml/2W	
	105330	MB1										✓	OK		
	105331	BS	6/2									✓	OK	50ppm STD(2)/ml/2W	
	105332	JC2122-X2	48523 CMX	S	1		5.0/5					✓	OK		
	105333	JC2122-2MS	✓	S	1		5.0/5					✓	OK	50ppm STD(2)/ml sample	
	105334	JC2122-2MSD	✓	S	1		5.0/5					✓	OK	50ppm STD(2)/ml sample	
	105335	JC2122-1	✓	S	1		5.1/5					✓	OK		
	105336	JC2261-2	48528 CMX	S	2		5.0/5					✓	OK		
	105337	JC2261-3	✓	S	2		5.0/5					✓	OK		
	105338	CC5288-10,000										✓	OK	10000ppm/ml/2W	
														6/2	

MTX = Matrix Designate W for water, S for soil, O for oil. L+ =Library Search. IS = Internal Standard Area. SU = Surrogate. Sample Amt = Volume (ML) or Weight (g); MOH amt.= volume (ul) extract injected * IF pH > 2, comment on sample result. All strike outs must be initialed, dated and reason code applied as follows: 1 = reviewer correction error; 2 = transcription error; 3 = computer miscalculation; 4 = analyst's correction error

Form: OR001-10
Rev. Date: 1/19/16

221

9.6.2 9

SGS ACCUTEST

VOLATILE ANALYSIS LOG

Batch ID: GGH5308 9 (6/2)

Print Analyst Name: Xu Liu

Analyst Signature:

Date: 6/2/16

Columns: 2B624 / RTX-1 (30m x 0.53mm x 3µm) (30m x 0.32mm x 3µm)

Method: 8015C ~~GRO~~ ALL (6/6)

Initial Cal. Method: MGH5288

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
015214137	ALL GRO (6/15)	2000 ppm
015214138	ALL (MD) 6/15	100 ppm
015214139	ALL STD(2) (6/15)	100 ppm

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: Date: 6/3/16

R	Data File	Sample ID	Test	MTX	Vial #	ALS #	Samp. Amt (ml or g)	MOH amt. (ul)	Secondary dilution	L+	IS	SU	Status (Data)	Comments	pH* <2
	GH105339	MB1					1						Not need.		
	105340	BS					1						Data not collected, Back injector stopped		
	105341	MB1					1						✓ ok		
	105342	BS					1						✓ ok	50µl STD(2)/ml H2O	
	105343	JC21347-1	485339 CMA	GW	3		1						✓ ok		✓
	105344	JC21347-1MS	✓	GW	3		1						✓ ok	50µl STD(2)/ml sample	✓
	105345	JC21347-1MSD	✓	GW	3		1						✓ ok	50µl STD(2)/ml sample	✓
	105346	JC21347-3	✓	GW	5		1						✓ ok		✓
	105347	CC5288-5000					1						✓ ok	50µl STD/ml H2O	

(6/2)

MTX = Matrix Designate W for water, S for soil, O for oil. L+ = Library Search. IS = Internal Standard Area. SU = Surrogate.
Sample Amt = Volume (ML) or Weight (g); MOH amt. = volume (ul) extract injected * IF pH > 2, comment on sample result.
All strike outs must be initialed, dated and reason code applied as follows: 1 = reviewer correction error; 2 = transcription error; 3 = computer miscalculation; 4 = analyst's correction error

Form: OR001-10
Rev. Date: 1/19/16

SGS ACCUTEST

VOLATILE ANALYSIS LOG

Batch ID: GGH 5310

Date: 6/3/16

Print Analyst Name: Xu Liu

Analyst Signature:

Columns: 2B/W (RTX-1 (30m x 0.53mm x 3um) (30m x 0.53mm x 3u)

Method: 8015C ALL

Initial Cal. Method: MGH 5288

Standard Data

Lot #	Description	Conc.

6/3 Standard Data

Lot #	Description	Conc.
0153214137	~~AF~~ ALL SMX (6/15)	2000 ppm
0153214138	ALL STD (6/15)	100 ppm
0153214139	ALL STD(2) (6/15)	100 ppm

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: Date: 6/6/16

R	Data File	Sample ID	Test	MTX	Vial #	ALS #	Samp. Amt (ml or g)	MOH amt. (ul)	Secondary dilution	L+	IS	SU	Status (Data)	Comments	pH* <2
	GH105348	2B										✓	OK		
	105349	CC5288-5000										✓	OK	50ul STD/1ml H2O	
	105350	MB1										✓	OK		
	105351	BS										✓	OK	50ul STD(2)/1ml H2O	
	105352	JC21347-2	8260 CMB	S	2		5.0/5					✓	OK		
	105353	JC21347-2MS	✓	S	2		5.0/5					✓	OK	50ul STD(2)/1ml sample	
	105354	JC21347-2MSD	✓	S	2		5.0/5					✓	OK	50ul STD(2)/1ml sample	
	105355	CC5288-10,000										✓	RR	1st MeOH NG! 100ul STD/1ml H2O	
	105356	CC5288-10,000										✓	OK	100ul STD/1ml H2O	

6/3

MTX = Matrix Designate W for water, S for soil, O for oil. L+ = Library Search. IS = Internal Standard Area. SU = Surrogate.
Sample Amt = Volume (ML) or Weight (g); MOH amt. = volume (ul) extract injected * IF pH > 2, comment on sample result.
All strike outs must be initialed, dated and reason code applied as follows: 1 = reviewer correction error; 2 = transcription error; 3 = computer miscalculation; 4 = analyst's correction error

Form: OR001-10
Rev. Date: 1/19/16

GC Semi-volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Internal Standard Area Summaries
- DDT/Endrin Breakdown Checks
- GC Identification Summaries (Hits)
- Surrogate Recovery Summaries
- GC Surrogate Retention Time Summaries
- Initial and Continuing Calibration Summaries

Method Blank Summary

Job Number: JC21347
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP94431-MB1	1G123819.D	1	06/03/16	KD	06/02/16	OP94431	G1G4003

The QC reported here applies to the following samples: **Method:** SW846 8081B

JC21347-3

CAS No.	Compound	Result	RL	MDL	Units	Q
309-00-2	Aldrin	ND	0.010	0.0060	ug/l	
319-84-6	alpha-BHC	ND	0.010	0.0060	ug/l	
319-85-7	beta-BHC	ND	0.010	0.0057	ug/l	
319-86-8	delta-BHC	ND	0.010	0.0046	ug/l	
58-89-9	gamma-BHC (Lindane)	ND	0.010	0.0028	ug/l	
5103-71-9	alpha-Chlordane	ND	0.010	0.0046	ug/l	
5103-74-2	gamma-Chlordane	ND	0.010	0.0046	ug/l	
60-57-1	Dieldrin	ND	0.010	0.0036	ug/l	
72-54-8	4,4'-DDD	ND	0.010	0.0038	ug/l	
72-55-9	4,4'-DDE	ND	0.010	0.0062	ug/l	
50-29-3	4,4'-DDT	ND	0.010	0.0050	ug/l	
72-20-8	Endrin	ND	0.010	0.0050	ug/l	
1031-07-8	Endosulfan sulfate	ND	0.010	0.0053	ug/l	
7421-93-4	Endrin aldehyde	ND	0.010	0.0051	ug/l	
53494-70-5	Endrin ketone	ND	0.010	0.0051	ug/l	
959-98-8	Endosulfan-I	ND	0.010	0.0050	ug/l	
33213-65-9	Endosulfan-II	ND	0.010	0.0043	ug/l	
76-44-8	Heptachlor	ND	0.010	0.0038	ug/l	
1024-57-3	Heptachlor epoxide	ND	0.010	0.0065	ug/l	
72-43-5	Methoxychlor	ND	0.020	0.0057	ug/l	
8001-35-2	Toxaphene	ND	0.25	0.18	ug/l	

CAS No.	Surrogate Recoveries		Limits
877-09-8	Tetrachloro-m-xylene	96%	26-132%
877-09-8	Tetrachloro-m-xylene	87%	26-132%
2051-24-3	Decachlorobiphenyl	87%	10-118%
2051-24-3	Decachlorobiphenyl	92%	10-118%

Method Blank Summary

Job Number: JC21347
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP94442-MB1	1G123905.D	1	06/07/16	DS	06/03/16	OP94442	G1G4004

The QC reported here applies to the following samples: **Method:** SW846 8081B

JC21347-2

CAS No.	Compound	Result	RL	MDL	Units	Q
309-00-2	Aldrin	ND	0.67	0.59	ug/kg	
319-84-6	alpha-BHC	ND	0.67	0.44	ug/kg	
319-85-7	beta-BHC	ND	0.67	0.41	ug/kg	
319-86-8	delta-BHC	ND	0.67	0.26	ug/kg	
58-89-9	gamma-BHC (Lindane)	ND	0.67	0.30	ug/kg	
5103-71-9	alpha-Chlordane	ND	0.67	0.36	ug/kg	
5103-74-2	gamma-Chlordane	ND	0.67	0.51	ug/kg	
60-57-1	Dieldrin	ND	0.67	0.52	ug/kg	
72-54-8	4,4'-DDD	ND	0.67	0.25	ug/kg	
72-55-9	4,4'-DDE	ND	0.67	0.22	ug/kg	
50-29-3	4,4'-DDT	ND	0.67	0.25	ug/kg	
72-20-8	Endrin	ND	0.67	0.24	ug/kg	
1031-07-8	Endosulfan sulfate	ND	0.67	0.38	ug/kg	
7421-93-4	Endrin aldehyde	ND	0.67	0.50	ug/kg	
959-98-8	Endosulfan-I	ND	0.67	0.22	ug/kg	
33213-65-9	Endosulfan-II	ND	0.67	0.63	ug/kg	
76-44-8	Heptachlor	ND	0.67	0.55	ug/kg	
1024-57-3	Heptachlor epoxide	ND	0.67	0.28	ug/kg	
72-43-5	Methoxychlor	ND	1.3	0.37	ug/kg	
53494-70-5	Endrin ketone	ND	0.67	0.35	ug/kg	
8001-35-2	Toxaphene	ND	17	12	ug/kg	

CAS No.	Surrogate Recoveries		Limits
877-09-8	Tetrachloro-m-xylene	85%	24-136%
877-09-8	Tetrachloro-m-xylene	82%	24-136%
2051-24-3	Decachlorobiphenyl	86%	10-153%
2051-24-3	Decachlorobiphenyl	112%	10-153%

Blank Spike Summary

Job Number: JC21347
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP94431-BS1	1G123820.D	1	06/03/16	KD	06/02/16	OP94431	G1G4003

The QC reported here applies to the following samples: **Method:** SW846 8081B

JC21347-3

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
309-00-2	Aldrin	0.25	0.24	96	38-138
319-84-6	alpha-BHC	0.25	0.23	92	51-144
319-85-7	beta-BHC	0.25	0.23	92	55-137
319-86-8	delta-BHC	0.25	0.23	92	33-148
58-89-9	gamma-BHC (Lindane)	0.25	0.24	96	53-142
5103-71-9	alpha-Chlordane	0.25	0.25	100	52-137
5103-74-2	gamma-Chlordane	0.25	0.25	100	52-140
60-57-1	Dieldrin	0.25	0.26	104	54-144
72-54-8	4,4'-DDD	0.25	0.25	100	46-151
72-55-9	4,4'-DDE	0.25	0.24	96	51-142
50-29-3	4,4'-DDT	0.25	0.24	96	53-158
72-20-8	Endrin	0.25	0.28	112	53-149
1031-07-8	Endosulfan sulfate	0.25	0.23	92	49-148
7421-93-4	Endrin aldehyde	0.25	0.24	96	45-137
53494-70-5	Endrin ketone	0.25	0.22	88	48-142
959-98-8	Endosulfan-I	0.25	0.25	100	54-139
33213-65-9	Endosulfan-II	0.25	0.25	100	54-142
76-44-8	Heptachlor	0.25	0.24	96	45-137
1024-57-3	Heptachlor epoxide	0.25	0.25	100	54-140
72-43-5	Methoxychlor	0.25	0.25	100	51-157

CAS No.	Surrogate Recoveries	BSP	Limits
877-09-8	Tetrachloro-m-xylene	86%	26-132%
877-09-8	Tetrachloro-m-xylene	85%	26-132%
2051-24-3	Decachlorobiphenyl	84%	10-118%
2051-24-3	Decachlorobiphenyl	93%	10-118%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JC21347
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP94442-BS1	1G123906.D	1	06/07/16	DS	06/03/16	OP94442	G1G4004

The QC reported here applies to the following samples: **Method:** SW846 8081B

JC21347-2

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
309-00-2	Aldrin	16.7	15.5	93	40-135
319-84-6	alpha-BHC	16.7	13.9	83	37-134
319-85-7	beta-BHC	16.7	14.1	85	37-131
319-86-8	delta-BHC	16.7	14.0	84	34-132
58-89-9	gamma-BHC (Lindane)	16.7	14.4	86	36-128
5103-71-9	alpha-Chlordane	16.7	15.4	92	40-131
5103-74-2	gamma-Chlordane	16.7	15.6	94	41-133
60-57-1	Dieldrin	16.7	15.7	94	33-133
72-54-8	4,4'-DDD	16.7	14.6	88	37-132
72-55-9	4,4'-DDE	16.7	15.0	90	39-133
50-29-3	4,4'-DDT	16.7	15.0	90	26-150
72-20-8	Endrin	16.7	16.9	101	41-134
1031-07-8	Endosulfan sulfate	16.7	13.7	82	38-138
7421-93-4	Endrin aldehyde	16.7	14.5	87	37-129
959-98-8	Endosulfan-I	16.7	15.1	91	39-130
33213-65-9	Endosulfan-II	16.7	15.5	93	40-134
76-44-8	Heptachlor	16.7	14.9	89	36-132
1024-57-3	Heptachlor epoxide	16.7	16.0	96	39-131
72-43-5	Methoxychlor	16.7	15.5	93	28-149
53494-70-5	Endrin ketone	16.7	13.5	81	31-138

CAS No.	Surrogate Recoveries	BSP	Limits
877-09-8	Tetrachloro-m-xylene	82%	24-136%
877-09-8	Tetrachloro-m-xylene	89%	24-136%
2051-24-3	Decachlorobiphenyl	91%	10-153%
2051-24-3	Decachlorobiphenyl	111%	10-153%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JC21347
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP94431-MS	1G123827.D	1	06/03/16	KD	06/02/16	OP94431	G1G4003
OP94431-MSD	1G123828.D	1	06/03/16	KD	06/02/16	OP94431	G1G4003
JC21347-3	1G123822.D	1	06/03/16	KD	06/02/16	OP94431	G1G4003

The QC reported here applies to the following samples: **Method:** SW846 8081B

JC21347-3

CAS No.	Compound	JC21347-3 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
309-00-2	Aldrin	ND		0.55	0.36	66	0.55	0.38	69	5	37-159/40
319-84-6	alpha-BHC	ND		0.55	0.67	122	0.55	0.65	118	3	37-164/37
319-85-7	beta-BHC	ND		0.55	0.61	111	0.55	0.59	107	3	46-151/36
319-86-8	delta-BHC	ND		0.55	0.63	115	0.55	0.61	111	3	32-168/36
58-89-9	gamma-BHC (Lindane)	ND		0.55	0.63	115	0.55	0.61	111	3	44-160/37
5103-71-9	alpha-Chlordane	ND		0.55	0.45	82	0.55	0.45	82	0	38-160/35
5103-74-2	gamma-Chlordane	ND		0.55	0.44	80	0.55	0.45	82	2	39-157/37
60-57-1	Dieldrin	ND		0.55	0.59	107	0.55	0.58	106	2	42-161/36
72-54-8	4,4'-DDD	ND		0.55	0.41	75	0.55	0.41	75	0	40-161/36
72-55-9	4,4'-DDE	ND		0.55	0.28	51	0.55	0.29	53	4	34-158/36
50-29-3	4,4'-DDT	ND		0.55	0.24	44	0.55	0.26	47	8	41-173/33
72-20-8	Endrin	ND		0.55	0.66	120	0.55	0.64	116	3	44-166/35
1031-07-8	Endosulfan sulfate	ND		0.55	0.58	106	0.55	0.56	102	4	46-161/36
7421-93-4	Endrin aldehyde	ND		0.55	0.67	122	0.55	0.64	116	5	34-149/36
53494-70-5	Endrin ketone	ND		0.55	0.62	113	0.55	0.60	109	3	44-157/36
959-98-8	Endosulfan-I	ND		0.55	0.59	107	0.55	0.58	106	2	43-154/35
33213-65-9	Endosulfan-II	ND		0.55	0.62	113	0.55	0.60	109	3	40-162/35
76-44-8	Heptachlor	ND		0.55	0.46	84	0.55	0.47	86	2	33-153/37
1024-57-3	Heptachlor epoxide	ND		0.55	0.62	113	0.55	0.61	111	2	45-154/37
72-43-5	Methoxychlor	ND		0.55	0.36	66	0.55	0.37	67	3	48-169/32
8001-35-2	Toxaphene	ND			ND			ND		nc	50-150/30

CAS No.	Surrogate Recoveries	MS	MSD	JC21347-3	Limits
877-09-8	Tetrachloro-m-xylene	90%	95%	74%	26-132%
877-09-8	Tetrachloro-m-xylene	83%	87%	73%	26-132%
2051-24-3	Decachlorobiphenyl	34%	33%	31%	10-118%
2051-24-3	Decachlorobiphenyl	38%	37%	36%	10-118%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JC21347
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP94442-MS	1G123988.D	1	06/08/16	KD	06/03/16	OP94442	G1G4005
OP94442-MSD	1G123989.D	1	06/08/16	KD	06/03/16	OP94442	G1G4005
JC21347-2	1G123987.D	1	06/08/16	KD	06/03/16	OP94442	G1G4005

The QC reported here applies to the following samples: **Method:** SW846 8081B

JC21347-2

CAS No.	Compound	JC21347-2 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	Spike ug/kg	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
309-00-2	Aldrin	ND		20.4	18.2	89	20.1	19.5	97	7	19-147/48
319-84-6	alpha-BHC	ND		20.4	16.8	82	20.1	15.4	76	9	13-155/50
319-85-7	beta-BHC	ND		20.4	16.5	81	20.1	14.8	74	11	10-145/53
319-86-8	delta-BHC	ND		20.4	16.6	81	20.1	15.2	75	9	11-148/51
58-89-9	gamma-BHC (Lindane)	ND		20.4	17.1	84	20.1	15.7	78	9	16-143/47
5103-71-9	alpha-Chlordane	ND		20.4	17.5	86	20.1	16.3	81	7	15-151/50
5103-74-2	gamma-Chlordane	ND		20.4	17.6	86	20.1	16.5	82	6	13-151/50
60-57-1	Dieldrin	ND		20.4	17.7	87	20.1	16.2	80	9	10-157/54
72-54-8	4,4'-DDD	ND		20.4	16.6	81	20.1	16.0	79	4	10-157/52
72-55-9	4,4'-DDE	ND		20.4	16.9	83	20.1	15.7	78	7	10-155/49
50-29-3	4,4'-DDT	ND		20.4	16.7	82	20.1	15.6	77	7	10-187/49
72-20-8	Endrin	ND		20.4	18.9	93	20.1	20.0	99	6	14-154/53
1031-07-8	Endosulfan sulfate	ND		20.4	16.2	79	20.1	15.0	74	8	16-140/55
7421-93-4	Endrin aldehyde	ND		20.4	17.3	85	20.1	16.9	84	2	10-156/51
959-98-8	Endosulfan-I	ND		20.4	17.4	85	20.1	15.9	79	9	12-142/47
33213-65-9	Endosulfan-II	ND		20.4	17.0	83	20.1	15.6	77	9	10-150/52
76-44-8	Heptachlor	ND		20.4	17.7	87	20.1	16.4	81	8	10-159/49
1024-57-3	Heptachlor epoxide	ND		20.4	18.7	92	20.1	18.0	89	4	16-150/51
72-43-5	Methoxychlor	ND		20.4	16.4	80	20.1	15.8	78	4	10-166/52
53494-70-5	Endrin ketone	ND		20.4	17.5	86	20.1	15.9	79	10	10-171/52
8001-35-2	Toxaphene	ND			ND			ND		nc	50-150/30

CAS No.	Surrogate Recoveries	MS	MSD	JC21347-2	Limits
877-09-8	Tetrachloro-m-xylene	84%	77%	73%	24-136%
877-09-8	Tetrachloro-m-xylene	83%	78%	71%	24-136%
2051-24-3	Decachlorobiphenyl	79%	75%	69%	10-153%
2051-24-3	Decachlorobiphenyl	95%	91%	81%	10-153%

* = Outside of Control Limits.

Semivolatile Internal Standard Area Summary

Job Number: JC21347
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Check Std:	G1G4003-CC3988	**Injection Date:**	06/03/16
Lab File ID:	1G123817.D	**Injection Time:**	09:57
Instrument ID:	GC1G	**Method:**	SW846 8081B

	IS 1 AREA	RT	IS 2 AREA	RT
Check Std	1113724204	1.49	166316261	1.33
Upper Limit [a]	2227448408	1.99	332632522	1.83
Lower Limit [b]	556862102	0.99	83158131	0.83

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT
OP94431-MB1	975731654	1.50	144465424	1.33
OP94431-BS1	1082040837	1.50	168348088	1.33
ZZZZZZ	1077513640	1.50	164144499	1.33
JC21347-3	1097923911	1.50	168570749	1.33
ZZZZZZ	1014771840	1.49	140990370	1.33
ZZZZZZ	751119010	1.49	124682348	1.33
ZZZZZZ	1051353314	1.50	157552510	1.33
ZZZZZZ	1039392995	1.50	151075435	1.33
OP94431-MS	1123453933	1.50	168160499	1.33
OP94431-MSD	1099070086	1.49	162607261	1.33
ZZZZZZ	585127994	1.50	118261256	1.33
ZZZZZZ	890401242	1.50	152654476	1.33
ZZZZZZ	634465657	1.50	121856430	1.33
ZZZZZZ	1018922894	1.50	167041528	1.33
ZZZZZZ	1021455791	1.50	189847026	1.33

IS 1 = 1-Bromo-2-nitrobenzene (Signal #2)
IS 2 = 1-Bromo-2-nitrobenzene (Signal #1)

(a) Upper Limit = +100% of check standard area; Retention time +0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Semivolatile Internal Standard Area Summary

Job Number: JC21347
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Check Std:	G1G4004-CC3988	**Injection Date:**	06/07/16
Lab File ID:	1G123903.D	**Injection Time:**	00:04
Instrument ID:	GC1G	**Method:**	SW846 8081B

	IS 1 AREA	RT	IS 2 AREA	RT
Check Std	1110368735	1.49	164119294	1.32
Upper Limit [a]	2220737470	1.99	328238588	1.82
Lower Limit [b]	555184368	0.99	82059647	0.82

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT
OP94442-MB1	893379766	1.49	136657226	1.32
OP94442-BS1	990294887	1.49	150835378	1.32
ZZZZZZ	1166158360	1.49	179151391	1.32
ZZZZZZ	1095331651	1.49	167137944	1.32
OP94379-MS	1260056656	1.49	238746386	1.32
OP94379-MSD	1329153828	1.49	246383350	1.32
ZZZZZZ	1278108448	1.49	201963117	1.32
ZZZZZZ	822856704	1.49	155660159	1.33
ZZZZZZ	932571770	1.50	170863786	1.33
ZZZZZZ	693410643	1.50	154281132	1.34

IS 1 = 1-Bromo-2-nitrobenzene (Signal #2)
IS 2 = 1-Bromo-2-nitrobenzene (Signal #1)

(a) Upper Limit = +100% of check standard area; Retention time +0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Semivolatile Internal Standard Area Summary

Job Number: JC21347
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Check Std:	G1G4005-CC3988	**Injection Date:**	06/08/16
Lab File ID:	1G123969.D	**Injection Time:**	01:53
Instrument ID:	GC1G	**Method:**	SW846 8081B

	IS 1 AREA	RT	IS 2 AREA	RT
Check Std	1183058148	1.51	173308546	1.35
Upper Limit [a]	2366116296	2.01	346617092	1.85
Lower Limit [b]	591529074	1.01	86654273	0.85

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT
ZZZZZZ	1212955670	1.51	182406252	1.35
OP94543-MS	1253175302	1.51	180243198	1.35
OP94543-MSD	1271351274	1.51	187094374	1.35
JC21515-1	1307141427	1.51	190841813	1.35
ZZZZZZ	1260010053	1.51	179865130	1.35
ZZZZZZ	1204925867	1.51	168908600	1.35
ZZZZZZ	1111142376	1.52	196388421	1.35
ZZZZZZ	1262582192	1.51	187397968	1.35
ZZZZZZ	1519962960	1.51	191457502	1.35
ZZZZZZ	1313842079	1.51	186674595	1.35
ZZZZZZ	1125728759	1.51	174159441	1.35
ZZZZZZ	1280145369	1.51	196511736	1.35
OP94519-MS	1248290869	1.51	200570026	1.35
OP94519-MSD	1194919147	1.51	191739833	1.35
JC21347-2	1310837551	1.51	199794246	1.35
OP94442-MS	1237430018	1.51	190713470	1.35
OP94442-MSD	1237082497	1.51	193875366	1.35

IS 1 = 1-Bromo-2-nitrobenzene (Signal #2)
IS 2 = 1-Bromo-2-nitrobenzene (Signal #1)

(a) Upper Limit = +100% of check standard area; Retention time +0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

DDT/Endrin Breakdown Check

Job Number: JC21347
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample: G1G3988-DDT
Lab File ID: 1G123059.D
Instrument ID: GC1G
Injection Date: 05/16/16
Injection Time: 09:09

Compound	Response Signal 1	Response Signal 2
4,4'-DDD	1011043	7386221
4,4'-DDE	837634	4492810
4,4'-DDT	267769932	1336844219
DDT Breakdown [a]	0.7 %	0.9 %
Endrin aldehyde	1371237	7932699
Endrin ketone	6408544	33500252
Endrin	129236444	661131236
Endrin Breakdown [b]	5.7 %	5.9 %

(a) Calculated as: (DDD + DDE) / (DDD + DDE + DDT) x 100
(b) Calculated as: (Endrin Aldehyde + Endrin Ketone) / (Endrin Aldehyde + Endrin Ketone + Endrin) x 100

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
G1G3988-IC3988	1G123061.D	05/16/16	10:11	01:02	Initial cal 1
G1G3988-IC3988	1G123062.D	05/16/16	10:28	01:19	Initial cal 2
G1G3988-IC3988	1G123063.D	05/16/16	10:46	01:37	Initial cal 5
G1G3988-IC3988	1G123064.D	05/16/16	11:03	01:54	Initial cal 10
G1G3988-ICC3988	1G123065.D	05/16/16	11:21	02:12	Initial cal 25
G1G3988-IC3988	1G123066.D	05/16/16	11:38	02:29	Initial cal 50
G1G3988-IC3988	1G123067.D	05/16/16	11:56	02:47	Initial cal 75
G1G3988-IC3988	1G123068.D	05/16/16	12:13	03:04	Initial cal 100
G1G3988-IC3988	1G123069.D	05/16/16	12:31	03:22	Initial cal 500
G1G3988-IC3988	1G123070.D	05/16/16	12:48	03:39	Initial cal 500
G1G3988-ICV3988	1G123071.D	05/16/16	13:06	03:57	Initial cal verification 25
G1G3988-ICV3988	1G123072.D	05/16/16	13:23	04:15	Initial cal verification 25
G1G3988-ICV3988	1G123073.D	05/16/16	13:41	04:32	Initial cal verification 500
G1G3988-ICV3988	1G123074.D	05/16/16	13:58	04:50	Initial cal verification 500
G1G3989-CC3988	1G123075.D	05/16/16	14:16	05:07	Continuing cal 25
OP93907-MB1	1G123077.D	05/16/16	14:51	05:43	Method Blank
OP93907-BS1	1G123078.D	05/16/16	15:09	06:00	Blank Spike
OP93838-MB1	1G123079.D	05/16/16	15:26	06:18	Method Blank
ZZZZZZ	1G123080.D	05/16/16	15:44	06:35	(unrelated sample)
ZZZZZZ	1G123081.D	05/16/16	16:01	06:53	(unrelated sample)
ZZZZZZ	1G123082.D	05/16/16	16:19	07:10	(unrelated sample)
ZZZZZZ	1G123084.D	05/16/16	16:54	07:45	(unrelated sample)
JC20184-3	1G123111.D	05/16/16	17:11	08:03	(used for QC only; not part of job JC21347)
ZZZZZZ	1G123085.D	05/16/16	17:29	08:20	(unrelated sample)

DDT/Endrin Breakdown Check

Job Number: JC21347
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample:	G1G3988-DDT	**Injection Date:**	05/16/16
Lab File ID:	1G123059.D	**Injection Time:**	09:09
Instrument ID:	GC1G		

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
ZZZZZZ	1G123086.D	05/16/16	17:46	08:38	(unrelated sample)

DDT/Endrin Breakdown Check

Job Number: JC21347
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample: G1G4003-DDT
Lab File ID: 1G123816.D
Instrument ID: GC1G
Injection Date: 06/03/16
Injection Time: 09:39

Compound	Response Signal 1	Response Signal 2
4,4'-DDD	2949746	18455095
4,4'-DDE	3209301	23119091
4,4'-DDT	331352522	1592883606
DDT Breakdown [a]	1.8 %	2.5 %
Endrin aldehyde	1638242	9426789
Endrin ketone	6719943	36642723
Endrin	176704984	922600986
Endrin Breakdown [b]	4.5 %	4.8 %

(a) Calculated as: (DDD + DDE) / (DDD + DDE + DDT) x 100
(b) Calculated as: (Endrin Aldehyde + Endrin Ketone) / (Endrin Aldehyde + Endrin Ketone + Endrin) x 100

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
G1G4003-CC3988	1G123817.D	06/03/16	09:57	00:18	Continuing cal 50
OP94431-MB1	1G123819.D	06/03/16	10:32	00:52	Method Blank
OP94431-BS1	1G123820.D	06/03/16	10:49	01:09	Blank Spike
ZZZZZZ	1G123821.D	06/03/16	11:07	01:27	(unrelated sample)
JC21347-3	1G123822.D	06/03/16	11:24	01:44	RA12-GWS
ZZZZZZ	1G123823.D	06/03/16	11:42	02:02	(unrelated sample)
ZZZZZZ	1G123824.D	06/03/16	11:59	02:19	(unrelated sample)
ZZZZZZ	1G123825.D	06/03/16	12:17	02:37	(unrelated sample)
ZZZZZZ	1G123826.D	06/03/16	12:34	02:54	(unrelated sample)
OP94431-MS	1G123827.D	06/03/16	12:52	03:12	Matrix Spike
OP94431-MSD	1G123828.D	06/03/16	13:10	03:30	Matrix Spike Duplicate
ZZZZZZ	1G123829.D	06/03/16	13:27	03:48	(unrelated sample)
ZZZZZZ	1G123830.D	06/03/16	13:45	04:06	(unrelated sample)
ZZZZZZ	1G123831.D	06/03/16	14:02	04:23	(unrelated sample)
ZZZZZZ	1G123836.D	06/03/16	15:53	06:14	(unrelated sample)
ZZZZZZ	1G123837.D	06/03/16	16:11	06:32	(unrelated sample)

DDT/Endrin Breakdown Check

Job Number: JC21347
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample: G1G4004-DDT
Lab File ID: 1G123881.D
Instrument ID: GC1G
Injection Date: 06/06/16
Injection Time: 17:34

Compound	Response Signal 1	Response Signal 2
4,4'-DDD	3865858	28290681
4,4'-DDE	2655736	18942755
4,4'-DDT	284895970	1428191720
DDT Breakdown [a]	2.2 %	3.2 %
Endrin aldehyde	1396197	7707794
Endrin ketone	6341223	33687743
Endrin	154570086	842409506
Endrin Breakdown [b]	4.8 %	4.7 %

(a) Calculated as: (DDD + DDE) / (DDD + DDE + DDT) x 100
(b) Calculated as: (Endrin Aldehyde + Endrin Ketone) / (Endrin Aldehyde + Endrin Ketone + Endrin) x 100

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
G1G4004-CC3988	1G123882.D	06/06/16	17:52	00:18	Continuing cal 50
OP94247-MB3	1G123887.D	06/06/16	19:23	01:49	Method Blank
OP94468-MB1	1G123887.D	06/06/16	19:23	01:49	Method Blank
OP94468-BS1	1G123888.D	06/06/16	19:40	02:06	Blank Spike
OP94247-BS3	1G123888.D	06/06/16	19:40	02:06	Blank Spike
OP94499-MB1	1G123889.D	06/06/16	19:58	02:24	Method Blank
OP94499-BS1	1G123890.D	06/06/16	20:16	02:41	Blank Spike
JC21431-1	1G123891.D	06/06/16	20:33	02:59	(used for QC only; not part of job JC21347)
ZZZZZZ	1G123892.D	06/06/16	20:51	03:17	(unrelated sample)
OP94499-MS	1G123893.D	06/06/16	21:08	03:34	Matrix Spike
OP94499-LS10	1G123893.D	06/06/16	21:08	03:34	Leachate Spike
OP94499-MSD	1G123894.D	06/06/16	21:26	03:52	Matrix Spike Duplicate
OP94499-LB39	1G123895.D	06/06/16	21:43	04:09	Leachate Blank
ZZZZZZ	1G123896.D	06/06/16	22:01	04:26	(unrelated sample)
JC21311-2	1G123897.D	06/06/16	22:19	04:44	(used for QC only; not part of job JC21347)
ZZZZZZ	1G123898.D	06/06/16	22:36	05:01	(unrelated sample)
OP94468-MS	1G123899.D	06/06/16	22:54	05:19	Matrix Spike
OP94468-LS8	1G123899.D	06/06/16	22:54	05:19	Leachate Spike
OP94468-MSD	1G123900.D	06/06/16	23:11	05:36	Matrix Spike Duplicate
OP94247-LB36	1G123901.D	06/06/16	23:29	05:54	Leachate Blank
OP94468-LB33	1G123902.D	06/06/16	23:47	06:12	Leachate Blank
G1G4004-CC3988	1G123903.D	06/07/16	00:04	06:29	Continuing cal 25
OP94442-MB1	1G123905.D	06/07/16	00:39	07:04	Method Blank
OP94442-BS1	1G123906.D	06/07/16	00:57	07:22	Blank Spike

DDT/Endrin Breakdown Check

Job Number: JC21347
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample: G1G4004-DDT
Lab File ID: 1G123881.D
Instrument ID: GC1G
Injection Date: 06/06/16
Injection Time: 17:34

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
ZZZZZZ	1G123912.D	06/07/16	02:42	09:08	(unrelated sample)
ZZZZZZ	1G123913.D	06/07/16	03:00	09:26	(unrelated sample)
OP94379-MS	1G123916.D	06/07/16	03:53	10:19	Matrix Spike
OP94379-MSD	1G123917.D	06/07/16	04:10	10:36	Matrix Spike Duplicate
ZZZZZZ	1G123918.D	06/07/16	04:28	10:54	(unrelated sample)
ZZZZZZ	1G123919.D	06/07/16	04:46	11:11	(unrelated sample)
ZZZZZZ	1G123920.D	06/07/16	05:03	11:29	(unrelated sample)
ZZZZZZ	1G123921.D	06/07/16	05:21	11:47	(unrelated sample)

DDT/Endrin Breakdown Check

Job Number: JC21347
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample: G1G4005-DDT
Lab File ID: 1G123951.D
Instrument ID: GC1G
Injection Date: 06/07/16
Injection Time: 20:01

Compound	Response Signal 1	Response Signal 2
4,4'-DDD	3502487	24541308
4,4'-DDE	806846	5638809
4,4'-DDT	319087204	1563263704
DDT Breakdown [a]	1.3 %	1.9 %
Endrin aldehyde	2211442	12749661
Endrin ketone	7764279	44551556
Endrin	168795683	899667511
Endrin Breakdown [b]	5.6 %	6 %

(a) Calculated as: (DDD + DDE) / (DDD + DDE + DDT) x 100
(b) Calculated as: (Endrin Aldehyde + Endrin Ketone) / (Endrin Aldehyde + Endrin Ketone + Endrin) x 100

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
G1G4005-CC3988	1G123952.D	06/07/16	20:19	00:18	Continuing cal 25
OP94543-MB1	1G123955.D	06/07/16	21:12	01:10	Method Blank
OP94543-BS1	1G123956.D	06/07/16	21:29	01:28	Blank Spike
OP94543-BS13	1G123957.D	06/07/16	21:47	01:46	Blank Spike
OP94543-BSD13	1G123958.D	06/07/16	22:04	02:02	Blank Spike Duplicate
OP94543-BS14	1G123959.D	06/07/16	22:22	02:20	Blank Spike
OP94543-BSD14	1G123960.D	06/07/16	22:40	02:38	Blank Spike Duplicate
OP94510-MB1	1G123961.D	06/07/16	22:57	02:55	Method Blank
OP94510-BS1	1G123962.D	06/07/16	23:15	03:13	Blank Spike
OP94510-BSD	1G123963.D	06/07/16	23:32	03:30	Blank Spike Duplicate
ZZZZZZ	1G123971.D	06/07/16	23:50	03:48	(unrelated sample)
ZZZZZZ	1G123972.D	06/08/16	00:08	04:06	(unrelated sample)
OP94510-LB40	1G123968.D	06/08/16	01:35	05:34	Leachate Blank
G1G4005-CC3988	1G123969.D	06/08/16	01:53	05:52	Continuing cal 50
ZZZZZZ	1G123973.D	06/08/16	02:28	06:27	(unrelated sample)
OP94543-MS	1G123974.D	06/08/16	02:46	06:45	Matrix Spike
OP94543-MSD	1G123975.D	06/08/16	03:03	07:02	Matrix Spike Duplicate
JC21515-1	1G123976.D	06/08/16	03:21	07:20	(used for QC only; not part of job JC21347)
ZZZZZZ	1G123977.D	06/08/16	03:38	07:37	(unrelated sample)
ZZZZZZ	1G123978.D	06/08/16	03:56	07:55	(unrelated sample)
ZZZZZZ	1G123979.D	06/08/16	04:13	08:12	(unrelated sample)
ZZZZZZ	1G123980.D	06/08/16	04:31	08:30	(unrelated sample)
ZZZZZZ	1G123981.D	06/08/16	04:49	08:47	(unrelated sample)
ZZZZZZ	1G123982.D	06/08/16	05:06	09:05	(unrelated sample)

DDT/Endrin Breakdown Check

Job Number: JC21347
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample: G1G4005-DDT
Lab File ID: 1G123951.D
Instrument ID: GC1G
Injection Date: 06/07/16
Injection Time: 20:01

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
ZZZZZZ	1G123983.D	06/08/16	05:24	09:22	(unrelated sample)
ZZZZZZ	1G123984.D	06/08/16	05:41	09:40	(unrelated sample)
OP94519-MS	1G123985.D	06/08/16	05:59	09:57	Matrix Spike
OP94519-MSD	1G123986.D	06/08/16	06:16	10:15	Matrix Spike Duplicate
JC21347-2	1G123987.D	06/08/16	06:34	10:32	RA12(15-16)
OP94442-MS	1G123988.D	06/08/16	06:51	10:50	Matrix Spike
OP94442-MSD	1G123989.D	06/08/16	07:09	11:08	Matrix Spike Duplicate

GC Identification Summary

Job Number: JC21347
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Check Std:	G1G4003-CC3988	**Injection Date:**	06/03/16
Lab File ID:	1G123817.D	**Injection Time:**	09:57
Instrument ID:	GC1G	**Method:**	SW846 8081B

Sample ID:	OP94431-BS1	**Injection Date:**	06/03/16
Lab File ID:	1G123820.D	**Injection Time:**	10:49
Client ID:	Blank Spike		

Compound	Column	RT	StdRT	Conc	Q	Units	RPD Conc
Aldrin	1 [a]	3.52	3.52	0.24		ug/l	4.1
Aldrin	2	4.33	4.33	0.25		ug/l	
alpha-BHC	1 [a]	2.41	2.41	0.23		ug/l	0.0
alpha-BHC	2	2.93	2.93	0.23		ug/l	
beta-BHC	1 [a]	2.78	2.78	0.23		ug/l	4.3
beta-BHC	2	3.42	3.42	0.24		ug/l	
delta-BHC	1	2.97	2.97	0.24		ug/l	4.3
delta-BHC	2 [a]	3.80	3.80	0.23		ug/l	
gamma-BHC (Lindane)	1 [a]	2.71	2.70	0.24		ug/l	0.0
gamma-BHC (Lindane)	2	3.34	3.34	0.24		ug/l	
alpha-Chlordane	1 [a]	4.56	4.56	0.25		ug/l	7.7
alpha-Chlordane	2	5.62	5.62	0.27		ug/l	
gamma-Chlordane	1 [a]	4.39	4.39	0.25		ug/l	7.7
gamma-Chlordane	2	5.40	5.40	0.27		ug/l	
Dieldrin	1 [a]	5.06	5.06	0.26		ug/l	7.4
Dieldrin	2	6.13	6.14	0.28		ug/l	
4,4'-DDD	1 [a]	5.50	5.50	0.25		ug/l	11.3
4,4'-DDD	2	6.82	6.82	0.28		ug/l	
4,4'-DDE	1 [a]	4.67	4.67	0.24		ug/l	11.8
4,4'-DDE	2	5.89	5.89	0.27		ug/l	
4,4'-DDT	1 [a]	5.91	5.91	0.24		ug/l	11.8
4,4'-DDT	2	7.34	7.34	0.27		ug/l	
Endrin	1 [a]	5.38	5.38	0.28		ug/l	6.9
Endrin	2	6.63	6.63	0.30		ug/l	
Endosulfan sulfate	1 [a]	7.02	7.02	0.23		ug/l	12.2
Endosulfan sulfate	2	8.00	8.00	0.26		ug/l	
Endrin aldehyde	1 [a]	6.33	6.33	0.24		ug/l	8.0
Endrin aldehyde	2	7.54	7.54	0.26		ug/l	
Endrin ketone	1 [a]	7.44	7.44	0.22		ug/l	12.8
Endrin ketone	2	8.94	8.94	0.25		ug/l	
Endosulfan-I	1 [a]	4.74	4.74	0.25		ug/l	11.3
Endosulfan-I	2	5.71	5.71	0.28		ug/l	
Endosulfan-II	1 [a]	5.70	5.70	0.25		ug/l	7.7
Endosulfan-II	2	6.97	6.97	0.27		ug/l	
Heptachlor	1 [a]	3.19	3.19	0.24		ug/l	0.0
Heptachlor	2	3.89	3.89	0.24		ug/l	
Heptachlor epoxide	1 [a]	4.23	4.23	0.25		ug/l	11.3
Heptachlor epoxide	2	5.12	5.12	0.28		ug/l	
Methoxychlor	1 [a]	6.69	6.69	0.25		ug/l	11.3
Methoxychlor	2	8.58	8.58	0.28		ug/l	

(a) QC results reported from this column.

GC Identification Summary

Job Number: JC21347
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Check Std:	G1G4004-CC3988	**Injection Date:**	06/07/16
Lab File ID:	1G123903.D	**Injection Time:**	00:04
Instrument ID:	GC1G	**Method:**	SW846 8081B

Sample ID:	OP94442-BS1	**Injection Date:**	06/07/16
Lab File ID:	1G123906.D	**Injection Time:**	00:57
Client ID:	Blank Spike		

Compound	Column	RT	StdRT	Conc	Q	Units	RPD Conc
Aldrin	1 [a]	3.52	3.52	15.5		ug/kg	11.0
Aldrin	2	4.32	4.32	17.3		ug/kg	
alpha-BHC	1 [a]	2.40	2.40	13.9		ug/kg	10.2
alpha-BHC	2	2.93	2.93	15.4		ug/kg	
beta-BHC	1 [a]	2.78	2.78	14.1		ug/kg	12.0
beta-BHC	2	3.42	3.42	15.9		ug/kg	
delta-BHC	1 [a]	2.96	2.96	14.0		ug/kg	7.6
delta-BHC	2	3.80	3.80	15.1		ug/kg	
gamma-BHC (Lindane)	1 [a]	2.70	2.70	14.4		ug/kg	13.6
gamma-BHC (Lindane)	2	3.34	3.34	16.5		ug/kg	
alpha-Chlordane	1 [a]	4.55	4.55	15.4		ug/kg	15.0
alpha-Chlordane	2	5.62	5.62	17.9		ug/kg	
gamma-Chlordane	1 [a]	4.39	4.39	15.6		ug/kg	15.9
gamma-Chlordane	2	5.40	5.40	18.3		ug/kg	
Dieldrin	1 [a]	5.05	5.05	15.7		ug/kg	15.8
Dieldrin	2	6.13	6.13	18.4		ug/kg	
4,4'-DDD	1 [a]	5.50	5.50	14.6		ug/kg	39.1
4,4'-DDD	2	6.82	6.82	21.7		ug/kg	
4,4'-DDE	1 [a]	4.67	4.67	15.0		ug/kg	18.7
4,4'-DDE	2	5.88	5.89	18.1		ug/kg	
4,4'-DDT	1 [a]	5.91	5.91	15.0		ug/kg	23.0
4,4'-DDT	2	7.34	7.34	18.9		ug/kg	
Endrin	1 [a]	5.37	5.37	16.9		ug/kg	16.8
Endrin	2	6.62	6.63	20.0		ug/kg	
Endosulfan sulfate	1 [a]	7.01	7.02	13.7		ug/kg	22.7
Endosulfan sulfate	2	8.00	8.00	17.2		ug/kg	
Endrin aldehyde	1 [a]	6.33	6.33	14.5		ug/kg	22.1
Endrin aldehyde	2	7.54	7.54	18.1		ug/kg	
Endosulfan-I	1 [a]	4.74	4.74	15.1		ug/kg	18.1
Endosulfan-I	2	5.71	5.71	18.1		ug/kg	
Endosulfan-II	1 [a]	5.70	5.70	15.5		ug/kg	13.3
Endosulfan-II	2	6.97	6.97	17.7		ug/kg	
Heptachlor	1 [a]	3.19	3.19	14.9		ug/kg	10.8
Heptachlor	2	3.89	3.89	16.6		ug/kg	
Heptachlor epoxide	1 [a]	4.23	4.23	16.0		ug/kg	9.0
Heptachlor epoxide	2	5.12	5.12	17.5		ug/kg	
Methoxychlor	1 [a]	6.69	6.69	15.5		ug/kg	23.4
Methoxychlor	2	8.58	8.58	19.6		ug/kg	
Endrin ketone	1 [a]	7.44	7.44	13.5		ug/kg	23.0
Endrin ketone	2	8.94	8.94	17.0		ug/kg	

(a) QC results reported from this column.

GC Identification Summary

Job Number: JC21347
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Check Std:	G1G4003-CC3988	**Injection Date:**	06/03/16
Lab File ID:	1G123817.D	**Injection Time:**	09:57
Instrument ID:	GC1G	**Method:**	SW846 8081B

Sample ID:	OP94431-MS	**Injection Date:**	06/03/16
Lab File ID:	1G123827.D	**Injection Time:**	12:52
Client ID:	Matrix Spike		

Compound	Column	RT	StdRT	Conc	Q	Units	RPD Conc
Aldrin	1 [a]	3.52	3.52	0.36		ug/l	13.0
Aldrin	2	4.33	4.33	0.41		ug/l	
alpha-BHC	1 [a]	2.41	2.41	0.67		ug/l	12.7
alpha-BHC	2	2.93	2.93	0.59		ug/l	
beta-BHC	1 [a]	2.78	2.78	0.61		ug/l	4.8
beta-BHC	2	3.42	3.42	0.64		ug/l	
delta-BHC	1 [a]	2.97	2.97	0.63		ug/l	3.2
delta-BHC	2	3.80	3.80	0.61		ug/l	
gamma-BHC (Lindane)	1 [a]	2.70	2.70	0.63		ug/l	3.2
gamma-BHC (Lindane)	2	3.34	3.34	0.61		ug/l	
alpha-Chlordane	1 [a]	4.56	4.56	0.45		ug/l	6.5
alpha-Chlordane	2	5.62	5.62	0.48		ug/l	
gamma-Chlordane	1 [a]	4.39	4.39	0.44		ug/l	14.7
gamma-Chlordane	2	5.40	5.40	0.51		ug/l	
Dieldrin	1 [a]	5.06	5.06	0.59		ug/l	3.3
Dieldrin	2	6.13	6.14	0.61		ug/l	
4,4'-DDD	1 [a]	5.50	5.50	0.41		ug/l	11.5
4,4'-DDD	2	6.82	6.82	0.46		ug/l	
4,4'-DDE	1 [a]	4.67	4.67	0.28		ug/l	13.3
4,4'-DDE	2	5.89	5.89	0.32		ug/l	
4,4'-DDT	1 [a]	5.91	5.91	0.24		ug/l	15.4
4,4'-DDT	2	7.34	7.34	0.28		ug/l	
Endrin	1 [a]	5.38	5.38	0.66		ug/l	3.0
Endrin	2	6.63	6.63	0.68		ug/l	
Endosulfan sulfate	1 [a]	7.01	7.02	0.58		ug/l	9.8
Endosulfan sulfate	2	8.00	8.00	0.64		ug/l	
Endrin aldehyde	1 [a]	6.33	6.33	0.67		ug/l	4.4
Endrin aldehyde	2	7.54	7.54	0.70		ug/l	
Endrin ketone	1 [a]	7.44	7.44	0.62		ug/l	6.3
Endrin ketone	2	8.94	8.94	0.66		ug/l	
Endosulfan-I	1 [a]	4.74	4.74	0.59		ug/l	8.1
Endosulfan-I	2	5.71	5.71	0.64		ug/l	
Endosulfan-II	1 [a]	5.70	5.70	0.62		ug/l	3.2
Endosulfan-II	2	6.97	6.97	0.64		ug/l	
Heptachlor	1 [a]	3.19	3.19	0.46		ug/l	2.2
Heptachlor	2	3.89	3.89	0.45		ug/l	
Heptachlor epoxide	1 [a]	4.23	4.23	0.62		ug/l	4.7
Heptachlor epoxide	2	5.12	5.12	0.65		ug/l	
Methoxychlor	1 [a]	6.69	6.69	0.36		ug/l	13.0
Methoxychlor	2	8.58	8.58	0.41		ug/l	

(a) QC results reported from this column.

GC Identification Summary

Job Number: JC21347
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Check Std:	G1G4005-CC3988	**Injection Date:**	06/08/16
Lab File ID:	1G123969.D	**Injection Time:**	01:53
Instrument ID:	GC1G	**Method:**	SW846 8081B

Sample ID:	OP94442-MS	**Injection Date:**	06/08/16
Lab File ID:	1G123988.D	**Injection Time:**	06:51
Client ID:	Matrix Spike		

Compound	Column	RT	StdRT	Conc	Q	Units	RPD Conc
Aldrin	1 [a]	3.52	3.52	18.2		ug/kg	10.4
Aldrin	2	4.33	4.33	20.2		ug/kg	
alpha-BHC	1 [a]	2.42	2.42	16.8		ug/kg	5.2
alpha-BHC	2	2.94	2.94	17.7		ug/kg	
beta-BHC	1 [a]	2.79	2.79	16.5		ug/kg	8.1
beta-BHC	2	3.43	3.43	17.9		ug/kg	
delta-BHC	1 [a]	2.97	2.97	16.6		ug/kg	5.3
delta-BHC	2	3.80	3.80	17.5		ug/kg	
gamma-BHC (Lindane)	1 [a]	2.71	2.71	17.1		ug/kg	7.9
gamma-BHC (Lindane)	2	3.34	3.34	18.5		ug/kg	
alpha-Chlordane	1 [a]	4.56	4.56	17.5		ug/kg	14.8
alpha-Chlordane	2	5.62	5.62	20.3		ug/kg	
gamma-Chlordane	1 [a]	4.39	4.39	17.6		ug/kg	13.3
gamma-Chlordane	2	5.40	5.40	20.1		ug/kg	
Dieldrin	1 [a]	5.06	5.06	17.7		ug/kg	15.6
Dieldrin	2	6.13	6.13	20.7		ug/kg	
4,4'-DDD	1 [a]	5.50	5.50	16.6		ug/kg	22.5
4,4'-DDD	2	6.82	6.82	20.8		ug/kg	
4,4'-DDE	1 [a]	4.67	4.67	16.9		ug/kg	16.8
4,4'-DDE	2	5.89	5.89	20.0		ug/kg	
4,4'-DDT	1 [a]	5.91	5.91	16.7		ug/kg	20.9
4,4'-DDT	2	7.34	7.34	20.6		ug/kg	
Endrin	1 [a]	5.38	5.38	18.9		ug/kg	14.7
Endrin	2	6.63	6.63	21.9		ug/kg	
Endosulfan sulfate	1 [a]	7.01	7.01	16.2		ug/kg	21.0
Endosulfan sulfate	2	8.00	8.00	20.0		ug/kg	
Endrin aldehyde	1 [a]	6.33	6.33	17.3		ug/kg	15.0
Endrin aldehyde	2	7.54	7.53	20.1		ug/kg	
Endosulfan-I	1 [a]	4.74	4.74	17.4		ug/kg	14.9
Endosulfan-I	2	5.71	5.71	20.2		ug/kg	
Endosulfan-II	1 [a]	5.70	5.70	17.0		ug/kg	15.7
Endosulfan-II	2	6.97	6.97	19.9		ug/kg	
Heptachlor	1 [a]	3.20	3.20	17.7		ug/kg	5.0
Heptachlor	2	3.90	3.90	18.6		ug/kg	
Heptachlor epoxide	1 [a]	4.23	4.23	18.7		ug/kg	9.2
Heptachlor epoxide	2	5.12	5.12	20.5		ug/kg	
Methoxychlor	1 [a]	6.69	6.69	16.4		ug/kg	29.6
Methoxychlor	2	8.58	8.58	22.1		ug/kg	
Endrin ketone	1 [a]	7.44	7.44	17.5		ug/kg	15.3
Endrin ketone	2	8.94	8.94	20.4		ug/kg	

(a) QC results reported from this column.

GC Identification Summary

Job Number: JC21347
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Check Std:	G1G4003-CC3988	**Injection Date:**	06/03/16
Lab File ID:	1G123817.D	**Injection Time:**	09:57
Instrument ID:	GC1G	**Method:**	SW846 8081B

Sample ID:	OP94431-MSD	**Injection Date:**	06/03/16
Lab File ID:	1G123828.D	**Injection Time:**	13:10
Client ID:	Matrix Spike Duplicate		

Compound	Column	RT	StdRT	Conc	Q	Units	RPD Conc
Aldrin	1 [a]	3.52	3.52	0.38		ug/l	10.0
Aldrin	2	4.33	4.33	0.42		ug/l	
alpha-BHC	1 [a]	2.41	2.41	0.65		ug/l	11.4
alpha-BHC	2	2.93	2.93	0.58		ug/l	
beta-BHC	1 [a]	2.78	2.78	0.59		ug/l	6.6
beta-BHC	2	3.42	3.42	0.63		ug/l	
delta-BHC	1 [a]	2.97	2.97	0.61		ug/l	5.0
delta-BHC	2	3.80	3.80	0.58		ug/l	
gamma-BHC (Lindane)	1 [a]	2.70	2.70	0.61		ug/l	1.7
gamma-BHC (Lindane)	2	3.34	3.34	0.60		ug/l	
alpha-Chlordane	1 [a]	4.56	4.56	0.45		ug/l	4.3
alpha-Chlordane	2	5.62	5.62	0.47		ug/l	
gamma-Chlordane	1 [a]	4.39	4.39	0.45		ug/l	10.5
gamma-Chlordane	2	5.40	5.40	0.50		ug/l	
Dieldrin	1 [a]	5.06	5.06	0.58		ug/l	3.4
Dieldrin	2	6.13	6.14	0.60		ug/l	
4,4'-DDD	1 [a]	5.50	5.50	0.41		ug/l	13.6
4,4'-DDD	2	6.82	6.82	0.47		ug/l	
4,4'-DDE	1 [a]	4.67	4.67	0.29		ug/l	12.9
4,4'-DDE	2	5.88	5.89	0.33		ug/l	
4,4'-DDT	1 [a]	5.91	5.91	0.26		ug/l	10.9
4,4'-DDT	2	7.34	7.34	0.29		ug/l	
Endrin	1 [a]	5.38	5.38	0.64		ug/l	4.6
Endrin	2	6.63	6.63	0.67		ug/l	
Endosulfan sulfate	1 [a]	7.02	7.02	0.56		ug/l	10.2
Endosulfan sulfate	2	8.00	8.00	0.62		ug/l	
Endrin aldehyde	1 [a]	6.33	6.33	0.64		ug/l	4.6
Endrin aldehyde	2	7.54	7.54	0.67		ug/l	
Endrin ketone	1 [a]	7.44	7.44	0.60		ug/l	4.9
Endrin ketone	2	8.94	8.94	0.63		ug/l	
Endosulfan-I	1 [a]	4.74	4.74	0.58		ug/l	6.7
Endosulfan-I	2	5.71	5.71	0.62		ug/l	
Endosulfan-II	1 [a]	5.70	5.70	0.60		ug/l	3.3
Endosulfan-II	2	6.97	6.97	0.62		ug/l	
Heptachlor	1 [a]	3.19	3.19	0.47		ug/l	4.3
Heptachlor	2	3.89	3.89	0.45		ug/l	
Heptachlor epoxide	1 [a]	4.23	4.23	0.61		ug/l	4.8
Heptachlor epoxide	2	5.12	5.12	0.64		ug/l	
Methoxychlor	1 [a]	6.69	6.69	0.37		ug/l	12.7
Methoxychlor	2	8.58	8.58	0.42		ug/l	

(a) QC results reported from this column.

GC Identification Summary

Job Number: JC21347
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Check Std:	G1G4005-CC3988	**Injection Date:**	06/08/16
Lab File ID:	1G123969.D	**Injection Time:**	01:53
Instrument ID:	GC1G	**Method:**	SW846 8081B

Sample ID:	OP94442-MSD	**Injection Date:**	06/08/16
Lab File ID:	1G123989.D	**Injection Time:**	07:09
Client ID:	Matrix Spike Duplicate		

Compound	Column	RT	StdRT	Conc	Q	Units	RPD Conc
Aldrin	1 [a]	3.52	3.52	19.5		ug/kg	2.1
Aldrin	2	4.33	4.33	19.1		ug/kg	
alpha-BHC	1 [a]	2.42	2.42	15.4		ug/kg	8.1
alpha-BHC	2	2.94	2.94	16.7		ug/kg	
beta-BHC	1 [a]	2.79	2.79	14.8		ug/kg	12.7
beta-BHC	2	3.43	3.43	16.8		ug/kg	
delta-BHC	1 [a]	2.97	2.97	15.2		ug/kg	9.4
delta-BHC	2	3.81	3.80	16.7		ug/kg	
gamma-BHC (Lindane)	1 [a]	2.71	2.71	15.7		ug/kg	11.4
gamma-BHC (Lindane)	2	3.35	3.34	17.6		ug/kg	
alpha-Chlordane	1 [a]	4.56	4.56	16.3		ug/kg	16.3
alpha-Chlordane	2	5.62	5.62	19.2		ug/kg	
gamma-Chlordane	1 [a]	4.39	4.39	16.5		ug/kg	12.0
gamma-Chlordane	2	5.40	5.40	18.6		ug/kg	
Dieldrin	1 [a]	5.06	5.06	16.2		ug/kg	20.0
Dieldrin	2	6.13	6.13	19.8		ug/kg	
4,4'-DDD	1 [a]	5.50	5.50	16.0		ug/kg	20.2
4,4'-DDD	2	6.82	6.82	19.6		ug/kg	
4,4'-DDE	1 [a]	4.67	4.67	15.7		ug/kg	18.5
4,4'-DDE	2	5.89	5.89	18.9		ug/kg	
4,4'-DDT	1 [a]	5.91	5.91	15.6		ug/kg	24.2
4,4'-DDT	2	7.34	7.34	19.9		ug/kg	
Endrin	1 [a]	5.38	5.38	20.0		ug/kg	7.2
Endrin	2	6.63	6.63	21.5		ug/kg	
Endosulfan sulfate	1 [a]	7.01	7.01	15.0		ug/kg	23.0
Endosulfan sulfate	2	8.00	8.00	18.9		ug/kg	
Endrin aldehyde	1 [a]	6.33	6.33	16.9		ug/kg	9.6
Endrin aldehyde	2	7.53	7.53	18.6		ug/kg	
Endosulfan-I	1 [a]	4.74	4.74	15.9		ug/kg	19.8
Endosulfan-I	2	5.71	5.71	19.4		ug/kg	
Endosulfan-II	1 [a]	5.70	5.70	15.6		ug/kg	28.1
Endosulfan-II	2	6.97	6.97	20.7		ug/kg	
Heptachlor	1 [a]	3.20	3.20	16.4		ug/kg	9.9
Heptachlor	2	3.90	3.90	18.1		ug/kg	
Heptachlor epoxide	1 [a]	4.23	4.23	18.0		ug/kg	5.4
Heptachlor epoxide	2	5.12	5.12	19.0		ug/kg	
Methoxychlor	1 [a]	6.69	6.69	15.8		ug/kg	20.5
Methoxychlor	2	8.58	8.58	19.4		ug/kg	
Endrin ketone	1 [a]	7.44	7.44	15.9		ug/kg	21.3
Endrin ketone	2	8.94	8.94	19.7		ug/kg	

(a) QC results reported from this column.

Semivolatile Surrogate Recovery Summary

Job Number: JC21347
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Method: SW846 8081B **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1 [a]	S1 [b]	S2 [a]	S2 [b]
JC21347-3	1G123822.D	74	73	31	36
OP94431-BS1	1G123820.D	86	85	84	93
OP94431-MB1	1G123819.D	96	87	87	92
OP94431-MS	1G123827.D	90	83	34	38
OP94431-MSD	1G123828.D	95	87	33	37

Surrogate Compounds	Recovery Limits
S1 = Tetrachloro-m-xylene	26-132%
S2 = Decachlorobiphenyl	10-118%

(a) Recovery from GC signal #1
(b) Recovery from GC signal #2

Semivolatile Surrogate Recovery Summary

Job Number: JC21347
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Method: SW846 8081B **Matrix:** SO

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1 [a]	S1 [b]	S2 [a]	S2 [b]
JC21347-2	1G123987.D	73	71	69	81
OP94442-BS1	1G123906.D	82	89	91	111
OP94442-MB1	1G123905.D	85	82	86	112
OP94442-MS	1G123988.D	84	83	79	95
OP94442-MSD	1G123989.D	77	78	75	91

Surrogate Compounds	Recovery Limits
S1 = Tetrachloro-m-xylene	24-136%
S2 = Decachlorobiphenyl	10-153%

(a) Recovery from GC signal #1
(b) Recovery from GC signal #2

GC Surrogate Retention Time Summary

Job Number: JC21347
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Check Std:	G1G4003-CC3988	**Injection Date:**	06/03/16
Lab File ID:	1G123817.D	**Injection Time:**	09:57
Instrument ID:	GC1G	**Method:**	SW846 8081B

	S1 [a] RT	S1 [b] RT	S2 [a] RT	S2 [b] RT
Check Std	1.92	2.29	9.21	10.66

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	S1 [a] RT	S1 [b] RT	S2 [a] RT	S2 [b] RT
OP94431-MB1	1G123819.D	06/03/16	10:32	1.92	2.29	9.22	10.66
OP94431-BS1	1G123820.D	06/03/16	10:49	1.93	2.29	9.21	10.66
ZZZZZZ	1G123821.D	06/03/16	11:07	1.92	2.29	9.21	10.66
JC21347-3	1G123822.D	06/03/16	11:24	1.92	2.29	9.22	10.66
ZZZZZZ	1G123823.D	06/03/16	11:42	1.93	2.29	9.21	10.66
ZZZZZZ	1G123824.D	06/03/16	11:59	1.92	2.29	9.22	10.66
ZZZZZZ	1G123825.D	06/03/16	12:17	1.92	2.29	9.21	10.66
ZZZZZZ	1G123826.D	06/03/16	12:34	1.93	2.29	9.22	10.66
OP94431-MS	1G123827.D	06/03/16	12:52	1.93	2.29	9.22	10.66
OP94431-MSD	1G123828.D	06/03/16	13:10	1.93	2.29	9.21	10.66
ZZZZZZ	1G123829.D	06/03/16	13:27	1.93	2.30	9.19	10.63
ZZZZZZ	1G123830.D	06/03/16	13:45	1.93	2.30	9.22	10.66
ZZZZZZ	1G123831.D	06/03/16	14:02	1.93	2.30	9.22	10.63
ZZZZZZ	1G123836.D	06/03/16	15:53	1.93	2.30	9.22	10.66
ZZZZZZ	1G123837.D	06/03/16	16:11	1.93	2.30	9.22	10.66

Surrogate Compounds

S1 = Tetrachloro-m-xylene
S2 = Decachlorobiphenyl

(a) Retention time from GC signal #1
(b) Retention time from GC signal #2

GC Surrogate Retention Time Summary

Job Number: JC21347
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Check Std:	G1G4004-CC3988	**Injection Date:**	06/07/16
Lab File ID:	1G123903.D	**Injection Time:**	00:04
Instrument ID:	GC1G	**Method:**	SW846 8081B

	S1 [a] RT	S1 [b] RT	S2 [a] RT	S2 [b] RT
Check Std	1.92	2.29	9.22	10.66

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	S1 [a] RT	S1 [b] RT	S2 [a] RT	S2 [b] RT
OP94442-MB1	1G123905.D	06/07/16	00:39	1.92	2.29	9.21	10.66
OP94442-BS1	1G123906.D	06/07/16	00:57	1.92	2.29	9.22	10.66
ZZZZZZ	1G123912.D	06/07/16	02:42	1.92	2.29	9.22	10.66
ZZZZZZ	1G123913.D	06/07/16	03:00	1.92	2.29	9.22	10.66
OP94379-MS	1G123916.D	06/07/16	03:53	1.92	2.29	9.22	10.66
OP94379-MSD	1G123917.D	06/07/16	04:10	1.92	2.29	9.21	10.66
ZZZZZZ	1G123918.D	06/07/16	04:28	1.92	2.29	9.21	10.66
ZZZZZZ	1G123919.D	06/07/16	04:46	1.93	2.29	9.22	10.66
ZZZZZZ	1G123920.D	06/07/16	05:03	1.93	2.30	9.22	10.66
ZZZZZZ	1G123921.D	06/07/16	05:21	1.94	2.30	9.22	10.66

Surrogate Compounds

S1 = Tetrachloro-m-xylene
S2 = Decachlorobiphenyl

(a) Retention time from GC signal #1
(b) Retention time from GC signal #2

GC Surrogate Retention Time Summary

Job Number: JC21347
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Check Std:	G1G4005-CC3988	**Injection Date:**	06/08/16
Lab File ID:	1G123969.D	**Injection Time:**	01:53
Instrument ID:	GC1G	**Method:**	SW846 8081B

	S1 [a] RT	S1 [b] RT	S2 [a] RT	S2 [b] RT
Check Std	1.94	2.30	9.21	10.66

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	S1 [a] RT	S1 [b] RT	S2 [a] RT	S2 [b] RT
ZZZZZZ	1G123973.D	06/08/16	02:28	1.94	2.30	9.21	10.66
OP94543-MS	1G123974.D	06/08/16	02:46	1.94	2.30	9.21	10.66
OP94543-MSD	1G123975.D	06/08/16	03:03	1.94	2.30	9.21	10.66
JC21515-1	1G123976.D	06/08/16	03:21	1.94	2.30	9.21	10.66
ZZZZZZ	1G123977.D	06/08/16	03:38	1.94	2.30	9.21	10.66
ZZZZZZ	1G123978.D	06/08/16	03:56	1.94	2.30	9.21	10.66
ZZZZZZ	1G123979.D	06/08/16	04:13	1.94	2.30	9.22	10.66
ZZZZZZ	1G123980.D	06/08/16	04:31	1.94	2.30	9.21	10.66
ZZZZZZ	1G123981.D	06/08/16	04:49	1.94	2.30	9.22	10.66
ZZZZZZ	1G123982.D	06/08/16	05:06	1.93	2.30	9.21	10.66
ZZZZZZ	1G123983.D	06/08/16	05:24	1.94	2.30	9.21	10.66
ZZZZZZ	1G123984.D	06/08/16	05:41	1.94	2.30	9.21	10.66
OP94519-MS	1G123985.D	06/08/16	05:59	1.94	2.30	9.21	10.66
OP94519-MSD	1G123986.D	06/08/16	06:16	1.94	2.30	9.21	10.66
JC21347-2	1G123987.D	06/08/16	06:34	1.94	2.30	9.21	10.66
OP94442-MS	1G123988.D	06/08/16	06:51	1.94	2.30	9.21	10.66
OP94442-MSD	1G123989.D	06/08/16	07:09	1.94	2.30	9.21	10.66

Surrogate Compounds

S1 = Tetrachloro-m-xylene
S2 = Decachlorobiphenyl

(a) Retention time from GC signal #1
(b) Retention time from GC signal #2

Initial Calibration Summary

Job Number: JC21347
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR
Sample: G1G3988-ICC3988
Lab FileID: 1G123065.D

Response Factor Report GC1G

Method : C:\MSDCHEM\1\METHODS\1PST3988.M (Chemstation Integrator)
Title : PEST/PCB
Last Update : Mon May 16 13:30:31 2016
Response via : Initial Calibration

Calibration Files
2 =1G123062.D 5 =1G123063.D 10 =1G123064.D 25 =1G123065.D
50 =1G123066.D 100 =1G123068.D 1 =1G123061.D 75 =1G123067.D

Compound	2	5	10	25	50	100	1	75	Avg	%RSD
1) I 1-bromo-2-nitrobenzen	ISTD									
2) Tetrachloro-	0.805	0.896	0.893	0.933	0.958	0.974	0.813	0.957	0.904	7.21
3) alpha-BHC	1.137	1.209	1.191	1.290	1.407	1.521	1.131	1.455	1.292	11.66
4) gamma-BHC	1.072	1.155	1.138	1.217	1.308	1.399	1.033	1.340	1.208	10.87
5) Heptachlor	1.163	1.203	1.149	1.202	1.264	1.326	1.246	1.281	1.229	4.94
6) beta-BHC	0.592	0.584	0.560	0.566	0.580	0.587	0.579	0.576	0.578	1.85
7) delta-BHC	1.027	1.091	1.093	1.166	1.279	1.388	1.108	1.321	1.184	10.92
8) Aldrin	1.013	1.087	1.054	1.117	1.186	1.263	1.030	1.213	1.120	8.15
9) Heptachlor E	1.001	1.103	1.065	1.096	1.140	1.182	1.105	1.142	1.104	4.95
10) gamma-Chlord	1.076	1.117	1.045	1.093	1.146	1.204	1.258	1.152	1.137	6.13
11) alpha-Chlord	1.074	1.112	1.057	1.097	1.137	1.184	1.214	1.143	1.127	4.74
12) Endosulfan I	1.026	1.064	1.023	1.061	1.098	1.139	1.162	1.102	1.084	4.62
13) 4,4'-DDE	1.078	1.106	1.059	1.110	1.157	1.211	1.206	1.165	1.136	5.01
14) Dieldrin	1.041	1.085	1.047	1.112	1.172	1.240	1.143	1.193	1.129	6.28
15) Endrin	0.982	0.997	0.952	0.986	1.028	1.069	1.139	1.036	1.024	5.77
16) 4,4'-DDD	0.826	0.859	0.829	0.881	0.931	0.987	0.879	0.948	0.893	6.46
17) Endosulfan I	1.022	1.062	1.012	1.052	1.089	1.120	1.135	1.090	1.073	4.09
18) 4,4'-DDT	0.863	0.927	0.909	0.955	1.010	1.068	1.019	1.027	0.972	7.17
19) Endrin Aldeh	0.821	0.829	0.801	0.816	0.848	0.897	0.880	0.887	0.847	4.29
20) Endosulfan S	0.930	0.984	0.958	0.988	1.008	1.027	1.334	1.010	1.030	12.29
21) Methoxychlor	0.571	0.514	0.563	0.570	0.572	0.571	0.680	0.567	0.576	8.06
22) Mirex	1.007	1.028	0.964	0.959	0.936	0.922	1.099	0.923	0.980	6.28
23) Endrin Keton	1.043	1.134	1.099	1.150	1.182	1.214	1.303	1.197	1.165	6.73
24) Decachlorobi	1.297	1.273	1.230	1.201	1.180	1.152	1.325	1.170	1.229	5.18
25) I 1-bromo-2-nitrobenzen	ISTD									
26) Toxaphene{A}					0.016				0.016	0.00
27) Toxaphene{B}					0.047				0.047	0.00
28) Toxaphene{C}					0.025				0.025	0.00
29) Toxaphene{D}					0.029				0.029	0.00
30) Toxaphene{E}					0.033				0.033	0.00
31) I 1-bromo-2-nitrobenzen	ISTD									
32) Chlordane {A					0.037				0.037	0.00
33) Chlordane {B					0.048				0.048	0.00
34) Chlordane {C					0.162				0.162	0.00
35) Chlordane {D					0.253				0.253	0.00
36) Chlordane {E					0.038				0.038	0.00

Signal #2

1) I 1-bromo-2-nitrobenzen	ISTD									
2) Tetrachloro-	0.940	0.955	0.933	0.903	0.873	0.825	0.850	0.836	0.889	5.66
3) alpha-BHC	1.408	1.400	1.368	1.329	1.326	1.310	1.204	1.310	1.332	4.85
4) gamma-BHC	1.293	1.307	1.234	1.212	1.195	1.169	1.061	1.172	1.205	6.46

Initial Calibration Summary

Job Number: JC21347 **Sample:** G1G3988-ICC3988
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 1G123065.D
Project: BMSMC, Building 5 Area, PR

5)	Heptachlor	1.273	1.228	1.160	1.101	1.094	1.061	1.021	1.063	1.125	7.83
6)	beta-BHC	0.621	0.639	0.576	0.556	0.525	0.493	0.508	0.503	0.553	9.98
7)	delta-BHC	1.343	1.290	1.214	1.203	1.200	1.181	1.030	1.179	1.205	7.59
8)	Aldrin	1.082	1.079	1.038	1.041	1.030	1.011	0.948	1.007	1.030	4.16
9)	Heptachlor E	0.966	0.993	0.923	0.918	0.897	0.871	0.930	0.870	0.921	4.67
10)	gamma-Chlord	0.967	0.993	0.929	0.941	0.916	0.898	0.991	0.892	0.941	4.20
11)	alpha-Chlord	0.992	0.981	0.925	0.920	0.893	0.868	1.011	0.864	0.932	6.10
12)	Endosulfan I	0.886	0.911	0.881	0.887	0.854	0.822	0.809	0.823	0.859	4.37
13)	4,4'-DDE	0.951	0.956	0.919	0.925	0.900	0.884	0.983	0.875	0.924	4.05
14)	Dieldrin	0.998	1.007	0.947	0.962	0.940	0.916	1.034	0.913	0.965	4.59
15)	Endrin	0.888	0.924	0.851	0.828	0.810	0.776	0.951	0.765	0.849	7.93
16)	4,4'-DDD	0.776	0.823	0.758	0.771	0.749	0.733	0.755	0.724	0.761	4.03
17)	Endosulfan I	0.923	0.922	0.859	0.853	0.822	0.802	0.978	0.794	0.869	7.57
18)	4,4'-DDT	0.762	0.802	0.738	0.765	0.745	0.731	0.701	0.731	0.747	4.01
19)	Endrin Aldeh	0.681	0.706	0.667	0.661	0.643	0.625	0.718	0.634	0.667	5.00
20)	Endosulfan S	0.805	0.813	0.765	0.762	0.738	0.709	0.775	0.715	0.760	5.03
21)	Methoxychlor	0.410	0.429	0.394	0.383	0.373	0.352	0.502	0.366	0.401	11.88
22)	Mirex	0.674	0.685	0.651	0.611	0.586	0.553	0.759	0.565	0.635	11.00
23)	Endrin Keton	0.896	0.915	0.860	0.846	0.817	0.782	0.912	0.792	0.853	6.18
24)	Decachlorobi	0.665	0.678	0.638	0.607	0.581	0.543	0.726	0.561	0.625	10.09

25) I 1-bromo-2-nitrobenzen ----------ISTD----------

26)	Toxaphene{A}	0.013	0.013	0.00
27)	Toxaphene{B}	0.029	0.029	0.00
28)	Toxaphene{C}	0.051	0.051	0.00
29)	Toxaphene{D}	0.032	0.032	0.00
30)	Toxaphene{E}	0.030	0.030	0.00

31) I 1-bromo-2-nitrobenzen ----------ISTD----------

32)	Chlordane {A	0.037	0.037	0.00
33)	Chlordane {B	0.037	0.037	0.00
34)	Chlordane {C	0.122	0.122	0.00
35)	Chlordane {D	0.201	0.201	0.00
36)	Chlordane {E	0.036	0.036	0.00

(#) = Out of Range ### Number of calibration levels exceeded format ###

1PST3988.M Mon May 16 15:10:27 2016 RPT1

Initial Calibration Verification

Job Number: JC21347 **Sample:** G1G3988-ICV3988
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 1G123071.D
Project: BMSMC, Building 5 Area, PR

Evaluate Continuing Calibration Report

```
Signal #1 : C:\MSDCHEM\1\DATA\1G3988\1G123071.D\ECD1A.CH Vial: 16
Signal #2 : C:\MSDCHEM\1\DATA\1G3988\1G123071.D\ECD2B.CH
Acq On    : 5-16-16 01:06:17 PM                      Operator: thomasl
Sample    : icv3988-25                               Inst    : GC1G
Misc      : op93854,g1g3988,930,,,10,1               Multiplr: 1.00
IntFile Signal #1: autoint1.e     IntFile Signal #2: autoint2.e

Method       : C:\MSDCHEM\1\METHODS\1PST3988.M (Chemstation Integrator)
Title        : PEST/PCB
Last Update  : Mon May 16 17:21:26 2016
Response via : Multiple Level Calibration

Min. RRF     :   0.000  Min. Rel. Area :  50%  Max. R.T. Dev  0.10min
Max. RRF Dev :  20%     Max. Rel. Area : 200%
```

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT Window
1	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	104	0.00	1.30- 1.36
2	SAB	Tetrachloro-m-xylene	0.903	0.853	5.5	95	0.00	1.89- 1.95
3	A	alpha-BHC	1.292	1.118	13.5	90	0.00	2.38- 2.44
4	MA	gamma-BHC	1.208	1.067	11.7	91	0.00	2.68- 2.74
5	MA	Heptachlor	1.229	1.045	15.0	91	0.00	3.16- 3.22
6	B	beta-BHC	0.578	0.497	14.0	91	0.00	2.75- 2.81
7	B	delta-BHC	1.184	1.097	7.3	98	0.00	2.94- 3.00
8	MB	Aldrin	1.121	0.976	12.9	91	0.00	3.50- 3.56
9	B	Heptachlor Epoxide	1.100	0.968	12.0	92	0.00	4.21- 4.27
10	B	gamma-Chlordane	1.134	0.980	13.6	93	0.00	4.37- 4.43
11	B	alpha-Chlordane	1.127	0.970	13.9	92	0.00	4.53- 4.59
12	A	Endosulfan I	1.085	0.910	16.1	89	0.00	4.72- 4.78
13	B	4,4'-DDE	1.137	0.977	14.1	92	0.00	4.65- 4.71
14	MA	Dieldrin	1.129	0.981	13.1	92	0.00	5.04- 5.10
15	MA	Endrin	1.023	0.875	14.5	92	0.00	5.36- 5.42
16	A	4,4'-DDD	0.892	0.781	12.4	92	0.00	5.47- 5.54
17	B	Endosulfan II	1.073	0.918	14.4	91	0.00	5.68- 5.74
18	MA	4,4'-DDT	0.972	0.806	17.1	88	0.00	5.89- 5.95
19	B	Endrin Aldehyde	0.848	0.757	10.7	97	0.00	6.31- 6.37
20	B	Endosulfan Sulfate	1.030	0.868	15.7	92	0.00	7.00- 7.06
21	A	Methoxychlor	0.586	0.478	18.4	88	0.00	6.67- 6.73
22		Mirex		----------NA----------				
23	B	Endrin Ketone	1.166	1.016	12.9	92	0.00	7.43- 7.49
24	SA	Decachlorobiphenyl	1.229	1.137	7.5	99	0.00	9.20- 9.26
25	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	0#	0.00	1.23- 1.43
26	L8	Toxaphene{A}		----------NA----------				
27	L8	Toxaphene{B}		----------NA----------				
28	L8	Toxaphene{C}		----------NA----------				
29	L8	Toxaphene{D}		----------NA----------				
30	L8	Toxaphene{E}		----------NA----------				
31	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	0#	0.00	1.23- 1.43
32		Chlordane {A}		----------NA----------				
33		Chlordane {B}		----------NA----------				
34		Chlordane {C}		----------NA----------				
35		Chlordane {D}		----------NA----------				
36		Chlordane {E}		----------NA----------				

***** Signal #2 *****

10.9.2 10

Initial Calibration Verification

Job Number: JC21347 **Sample:** G1G3988-ICV3988
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 1G123071.D
Project: BMSMC, Building 5 Area, PR

1	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	104	0.00	1.46- 1.52
2	SAB	Tetrachloro-m-xylene	0.889	0.853	4.0	98	0.00	2.26- 2.32
3	A	alpha-BHC	1.331	1.193	10.4	93	0.00	2.91- 2.97
4	MA	gamma-BHC	1.205	1.086	9.9	93	0.00	3.32- 3.38
5	MA	Heptachlor	1.125	1.000	11.1	94	0.00	3.87- 3.93
6	B	beta-BHC	0.552	0.492	10.9	92	0.00	3.40- 3.46
7	B	delta-BHC	1.205	1.134	5.9	98	0.00	3.78- 3.84
8	MB	Aldrin	1.031	0.960	6.9	96	0.00	4.31- 4.37
9	B	Heptachlor Epoxide	0.920	0.853	7.3	97	0.00	5.11- 5.17
10	B	gamma-Chlordane	0.939	0.884	5.9	98	0.00	5.39- 5.45
11	B	alpha-Chlordane	0.933	0.845	9.4	95	0.00	5.61- 5.67
12	A	Endosulfan I	0.860	0.796	7.4	93	0.00	5.70- 5.76
13	B	4,4'-DDE	0.925	0.847	8.4	95	0.00	5.87- 5.93
14	MA	Dieldrin	0.963	0.890	7.6	96	0.00	6.12- 6.18
15	MA	Endrin	0.852	0.751	11.9	94	0.00	6.62- 6.68
16	A	4,4'-DDD	0.763	0.706	7.5	95	0.00	6.80- 6.86
17	B	Endosulfan II	0.868	0.780	10.1	95	0.00	6.96- 7.02
18	MA	4,4'-DDT	0.744	0.671	9.8	91	0.00	7.33- 7.39
19	B	Endrin Aldehyde	0.666	0.637	4.4	100	0.00	7.53- 7.59
20	B	Endosulfan Sulfate	0.760	0.703	7.5	96	0.00	7.99- 8.05
21	A	Methoxychlor	0.398	0.343	13.8	93	0.00	8.57- 8.63
22		Mirex		----------NA----------				
23	B	Endrin Ketone	0.851	0.786	7.6	97	0.00	8.94- 9.00
24	SA	Decachlorobiphenyl	0.624	0.586	6.1	100	0.00	10.65-10.71
25	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	0#	0.00	1.39- 1.59
26	L8	Toxaphene{A}		----------NA----------				
27	L8	Toxaphene{B}		----------NA----------				
28	L8	Toxaphene{C}		----------NA----------				
29	L8	Toxaphene{D}		----------NA----------				
30	L8	Toxaphene{E}		----------NA----------				
31	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	0#	0.00	1.39- 1.59
32		Chlordane {A}		----------NA----------				
33		Chlordane {B}		----------NA----------				
34		Chlordane {C}		----------NA----------				
35		Chlordane {D}		----------NA----------				
36		Chlordane {E}		----------NA----------				

(#) = Out of Range SPCC's out = 0 CCC's out = 0
1G123065.D 1PST3988.M Mon May 16 17:24:55 2016 RPT1

10.9.2 10

Initial Calibration Verification

Job Number: JC21347 **Sample:** G1G3988-ICV3988
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 1G123072.D
Project: BMSMC, Building 5 Area, PR

Evaluate Continuing Calibration Report

```
Signal #1 : C:\MSDCHEM\1\DATA\1G3988\1G123072.D\ECD1A.CH Vial: 17
Signal #2 : C:\MSDCHEM\1\DATA\1G3988\1G123072.D\ECD2B.CH
Acq On    : 5-16-16 01:23:45 PM                      Operator: thomasl
Sample    : icv3988-25                               Inst    : GC1G
Misc      : op93854,g1g3988,930,,,10,1               Multiplr: 1.00
IntFile Signal #1: autoint1.e     IntFile Signal #2: autoint2.e

Method       : C:\MSDCHEM\1\METHODS\1PST3988.M (Chemstation Integrator)
Title        : PEST/PCB
Last Update  : Mon May 16 17:21:26 2016
Response via : Multiple Level Calibration

Min. RRF     :   0.000  Min. Rel. Area :  50%  Max. R.T. Dev  0.10min
Max. RRF Dev :  20%     Max. Rel. Area : 200%
```

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT Window
1	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	104	0.00	1.30- 1.36
2	SAB	Tetrachloro-m-xylene		----------NA----------				
3	A	alpha-BHC		----------NA----------				
4	MA	gamma-BHC		----------NA----------				
5	MA	Heptachlor		----------NA----------				
6	B	beta-BHC		----------NA----------				
7	B	delta-BHC		----------NA----------				
8	MB	Aldrin		----------NA----------				
9	B	Heptachlor Epoxide		----------NA----------				
10	B	gamma-Chlordane		----------NA----------				
11	B	alpha-Chlordane		----------NA----------				
12	A	Endosulfan I		----------NA----------				
13	B	4,4'-DDE		----------NA----------				
14	MA	Dieldrin		----------NA----------				
15	MA	Endrin		----------NA----------				
16	A	4,4'-DDD		----------NA----------				
17	B	Endosulfan II		----------NA----------				
18	MA	4,4'-DDT		----------NA----------				
19	B	Endrin Aldehyde		----------NA----------				
20	B	Endosulfan Sulfate		----------NA----------				
21	A	Methoxychlor		----------NA----------				
22		Mirex	0.980	0.896	8.6	97	0.00	6.80- 6.86
23	B	Endrin Ketone		----------NA----------				
24	SA	Decachlorobiphenyl		----------NA----------				
25	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	0#	0.00	1.23- 1.43
26	L8	Toxaphene{A}		----------NA----------				
27	L8	Toxaphene{B}		----------NA----------				
28	L8	Toxaphene{C}		----------NA----------				
29	L8	Toxaphene{D}		----------NA----------				
30	L8	Toxaphene{E}		----------NA----------				
31	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	0#	0.00	1.23- 1.43
32		Chlordane {A}		----------NA----------				
33		Chlordane {B}		----------NA----------				
34		Chlordane {C}		----------NA----------				
35		Chlordane {D}		----------NA----------				
36		Chlordane {E}		----------NA----------				

***** Signal #2 *****

Initial Calibration Verification

Job Number: JC21347
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample: G1G3988-ICV3988
Lab FileID: 1G123072.D

1	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	104	0.00	1.47- 1.53
2	SAB	Tetrachloro-m-xylene		----------NA----------				
3	A	alpha-BHC		----------NA----------				
4	MA	gamma-BHC		----------NA----------				
5	MA	Heptachlor		----------NA----------				
6	B	beta-BHC		----------NA----------				
7	B	delta-BHC		----------NA----------				
8	MB	Aldrin		----------NA----------				
9	B	Heptachlor Epoxide		----------NA----------				
10	B	gamma-Chlordane		----------NA----------				
11	B	alpha-Chlordane		----------NA----------				
12	A	Endosulfan I		----------NA----------				
13	B	4,4'-DDE		----------NA----------				
14	MA	Dieldrin		----------NA----------				
15	MA	Endrin		----------NA----------				
16	A	4,4'-DDD		----------NA----------				
17	B	Endosulfan II		----------NA----------				
18	MA	4,4'-DDT		----------NA----------				
19	B	Endrin Aldehyde		----------NA----------				
20	B	Endosulfan Sulfate		----------NA----------				
21	A	Methoxychlor		----------NA----------				
22		Mirex	0.635	0.598	5.8	102	0.00	8.87- 8.93
23	B	Endrin Ketone		----------NA----------				
24	SA	Decachlorobiphenyl		----------NA----------				
25	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	0#	0.00	1.40- 1.60
26	L8	Toxaphene{A}		----------NA----------				
27	L8	Toxaphene{B}		----------NA----------				
28	L8	Toxaphene{C}		----------NA----------				
29	L8	Toxaphene{D}		----------NA----------				
30	L8	Toxaphene{E}		----------NA----------				
31	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	0#	0.00	1.40- 1.60
32		Chlordane {A}		----------NA----------				
33		Chlordane {B}		----------NA----------				
34		Chlordane {C}		----------NA----------				
35		Chlordane {D}		----------NA----------				
36		Chlordane {E}		----------NA----------				

(#) = Out of Range SPCC's out = 0 CCC's out = 0
1G123065.D 1PST3988.M Mon May 16 17:24:56 2016 RPT1

10.9.3 10

Initial Calibration Verification

Job Number: JC21347 **Sample:** G1G3988-ICV3988
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 1G123073.D
Project: BMSMC, Building 5 Area, PR

Evaluate Continuing Calibration Report

```
Signal #1 : C:\MSDCHEM\1\DATA\1G3988\1G123073.D\ECD1A.CH Vial: 18
Signal #2 : C:\MSDCHEM\1\DATA\1G3988\1G123073.D\ECD2B.CH
Acq On    : 5-16-16 01:41:21 PM                      Operator: thomasl
Sample    : icv3988-500                              Inst    : GC1G
Misc      : op93854,g1g3988,930,,,10,1               Multiplr: 1.00
IntFile Signal #1: autoint1.e     IntFile Signal #2: autoint2.e

Method       : C:\MSDCHEM\1\METHODS\1PST3988.M (Chemstation Integrator)
Title        : PEST/PCB
Last Update  : Mon May 16 13:30:31 2016
Response via : Multiple Level Calibration

Min. RRF     :   0.000  Min. Rel. Area :  50%  Max. R.T. Dev  0.10min
Max. RRF Dev :  20%     Max. Rel. Area : 200%
```

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT Window
1	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	102	0.00	1.30- 1.36
2	SAB	Tetrachloro-m-xylene	0.904	0.857	5.2	91	0.00	1.89- 1.95
3	A	alpha-BHC		----------NA----------				
4	MA	gamma-BHC		----------NA----------				
5	MA	Heptachlor		----------NA----------				
6	B	beta-BHC		----------NA----------				
7	B	delta-BHC		----------NA----------				
8	MB	Aldrin		----------NA----------				
9	B	Heptachlor Epoxide		----------NA----------				
10	B	gamma-Chlordane		----------NA----------				
11	B	alpha-Chlordane		----------NA----------				
12	A	Endosulfan I		----------NA----------				
13	B	4,4'-DDE		----------NA----------				
14	MA	Dieldrin		----------NA----------				
15	MA	Endrin		----------NA----------				
16	A	4,4'-DDD		----------NA----------				
17	B	Endosulfan II		----------NA----------				
18	MA	4,4'-DDT		----------NA----------				
19	B	Endrin Aldehyde		----------NA----------				
20	B	Endosulfan Sulfate		----------NA----------				
21	A	Methoxychlor		----------NA----------				
22		Mirex		----------NA----------				
23	B	Endrin Ketone		----------NA----------				
24	SA	Decachlorobiphenyl	1.229	1.129	8.1	98	0.00	9.20- 9.26
25	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	100	0.00	1.23- 1.43
26	L8	Toxaphene{A}		----------NA----------				
27	L8	Toxaphene{B}		----------NA----------				
28	L8	Toxaphene{C}		----------NA----------				
29	L8	Toxaphene{D}		----------NA----------				
30	L8	Toxaphene{E}		----------NA----------				
31	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	106	0.00	1.23- 1.43
32		Chlordane {A}	0.037	0.039	-5.4	112	0.00	3.01- 3.21
33		Chlordane {B}	0.048	0.044	8.3	97	0.00	3.57- 3.77
34		Chlordane {C}	0.162	0.142	12.3	92	0.00	4.30- 4.50
35		Chlordane {D}	0.253	0.226	10.7	94	0.00	4.45- 4.65
36		Chlordane {E}	0.038	0.035	7.9	98	0.00	5.50- 5.70

***** Signal #2 *****

Initial Calibration Verification

Job Number: JC21347
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR
Sample: G1G3988-ICV3988
Lab FileID: 1G123073.D

1	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	100	0.00	1.46- 1.52
2	SAB	Tetrachloro-m-xylene	0.889	0.816	8.2	94	0.00	2.26- 2.32
3	A	alpha-BHC		----------NA----------				
4	MA	gamma-BHC		----------NA----------				
5	MA	Heptachlor		----------NA----------				
6	B	beta-BHC		----------NA----------				
7	B	delta-BHC		----------NA----------				
8	MB	Aldrin		----------NA----------				
9	B	Heptachlor Epoxide		----------NA----------				
10	B	gamma-Chlordane		----------NA----------				
11	B	alpha-Chlordane		----------NA----------				
12	A	Endosulfan I		----------NA----------				
13	B	4,4'-DDE		----------NA----------				
14	MA	Dieldrin		----------NA----------				
15	MA	Endrin		----------NA----------				
16	A	4,4'-DDD		----------NA----------				
17	B	Endosulfan II		----------NA----------				
18	MA	4,4'-DDT		----------NA----------				
19	B	Endrin Aldehyde		----------NA----------				
20	B	Endosulfan Sulfate		----------NA----------				
21	A	Methoxychlor		----------NA----------				
22		Mirex		----------NA----------				
23	B	Endrin Ketone		----------NA----------				
24	SA	Decachlorobiphenyl	0.625	0.584	6.6	101	0.00	10.65-10.71
25	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	99	0.00	1.39- 1.59
26	L8	Toxaphene{A}		----------NA----------				
27	L8	Toxaphene{B}		----------NA----------				
28	L8	Toxaphene{C}		----------NA----------				
29	L8	Toxaphene{D}		----------NA----------				
30	L8	Toxaphene{E}		----------NA----------				
31	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	104	0.00	1.39- 1.59
32		Chlordane {A}	0.037	0.040	-8.1	113	0.00	3.61- 3.81
33		Chlordane {B}	0.037	0.036	2.7	101	0.00	4.43- 4.63
34		Chlordane {C}	0.122	0.111	9.0	94	0.00	5.32- 5.52
35		Chlordane {D}	0.201	0.185	8.0	95	0.00	5.54- 5.74
36		Chlordane {E}	0.036	0.033	8.3	94	0.00	6.97- 7.17

(#) = Out of Range SPCC's out = 0 CCC's out = 0
1G123066.D 1PST3988.M Mon May 16 15:08:04 2016 RPT1

10.9.4 10

Initial Calibration Verification

Job Number: JC21347 **Sample:** G1G3988-ICV3988
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 1G123074.D
Project: BMSMC, Building 5 Area, PR

Evaluate Continuing Calibration Report

```
Signal #1 : C:\MSDCHEM\1\DATA\1G3988\1G123074.D\ECD1A.CH Vial: 19
Signal #2 : C:\MSDCHEM\1\DATA\1G3988\1G123074.D\ECD2B.CH
Acq On    : 5-16-16 01:58:48 PM                      Operator: thomasl
Sample    : icv3988-500                              Inst    : GC1G
Misc      : op93854,g1g3988,930,,,10,1               Multiplr: 1.00
IntFile Signal #1: autoint1.e     IntFile Signal #2: autoint2.e

Method       : C:\MSDCHEM\1\METHODS\1PST3988.M (Chemstation Integrator)
Title        : PEST/PCB
Last Update  : Mon May 16 13:30:31 2016
Response via : Multiple Level Calibration

Min. RRF     :   0.000  Min. Rel. Area :  50%  Max. R.T. Dev  0.10min
Max. RRF Dev :  20%     Max. Rel. Area : 200%
```

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT Window
1	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	103	0.00	1.30- 1.36
2	SAB	Tetrachloro-m-xylene	0.904	0.843	6.7	91	0.00	1.89- 1.95
3	A	alpha-BHC		----------NA----------				
4	MA	gamma-BHC		----------NA----------				
5	MA	Heptachlor		----------NA----------				
6	B	beta-BHC		----------NA----------				
7	B	delta-BHC		----------NA----------				
8	MB	Aldrin		----------NA----------				
9	B	Heptachlor Epoxide		----------NA----------				
10	B	gamma-Chlordane		----------NA----------				
11	B	alpha-Chlordane		----------NA----------				
12	A	Endosulfan I		----------NA----------				
13	B	4,4'-DDE		----------NA----------				
14	MA	Dieldrin		----------NA----------				
15	MA	Endrin		----------NA----------				
16	A	4,4'-DDD		----------NA----------				
17	B	Endosulfan II		----------NA----------				
18	MA	4,4'-DDT		----------NA----------				
19	B	Endrin Aldehyde		----------NA----------				
20	B	Endosulfan Sulfate		----------NA----------				
21	A	Methoxychlor		----------NA----------				
22		Mirex		----------NA----------				
23	B	Endrin Ketone		----------NA----------				
24	SA	Decachlorobiphenyl	1.229	1.090	11.3	95	0.00	9.20- 9.26
25	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	101	0.00	1.23- 1.43
26	L8	Toxaphene{A}	0.016	0.018	-12.5	114	0.00	4.97- 5.17
27	L8	Toxaphene{B}	0.047	0.047	0.0	102	0.00	5.60- 5.80
28	L8	Toxaphene{C}	0.025	0.026	-4.0	105	0.00	5.77- 5.97
29	L8	Toxaphene{D}	0.029	0.030	-3.4	105	0.00	6.10- 6.30
30	L8	Toxaphene{E}	0.033	0.032	3.0	99	0.00	6.75- 6.95
31	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	107	0.00	1.23- 1.43
32		Chlordane {A}		----------NA----------				
33		Chlordane {B}		----------NA----------				
34		Chlordane {C}		----------NA----------				
35		Chlordane {D}		----------NA----------				
36		Chlordane {E}		----------NA----------				

***** Signal #2 *****

Initial Calibration Verification

Job Number: JC21347 **Sample:** G1G3988-ICV3988
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 1G123074.D
Project: BMSMC, Building 5 Area, PR

1	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	100	0.00	1.46- 1.52
2	SAB	Tetrachloro-m-xylene	0.889	0.812	8.7	93	0.00	2.27- 2.33
3	A	alpha-BHC		----------NA----------				
4	MA	gamma-BHC		----------NA----------				
5	MA	Heptachlor		----------NA----------				
6	B	beta-BHC		----------NA----------				
7	B	delta-BHC		----------NA----------				
8	MB	Aldrin		----------NA----------				
9	B	Heptachlor Epoxide		----------NA----------				
10	B	gamma-Chlordane		----------NA----------				
11	B	alpha-Chlordane		----------NA----------				
12	A	Endosulfan I		----------NA----------				
13	B	4,4'-DDE		----------NA----------				
14	MA	Dieldrin		----------NA----------				
15	MA	Endrin		----------NA----------				
16	A	4,4'-DDD		----------NA----------				
17	B	Endosulfan II		----------NA----------				
18	MA	4,4'-DDT		----------NA----------				
19	B	Endrin Aldehyde		----------NA----------				
20	B	Endosulfan Sulfate		----------NA----------				
21	A	Methoxychlor		----------NA----------				
22		Mirex		----------NA----------				
23	B	Endrin Ketone		----------NA----------				
24	SA	Decachlorobiphenyl	0.625	0.575	8.0	99	0.00	10.65-10.71
25	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	100	0.00	1.39- 1.59
26	L8	Toxaphene{A}	0.013	0.014	-7.7	102	0.00	6.02- 6.22
27	L8	Toxaphene{B}	0.029	0.031	-6.9	107	0.00	6.86- 7.06
28	L8	Toxaphene{C}	0.051	0.052	-2.0	103	0.00	7.02- 7.22
29	L8	Toxaphene{D}	0.032	0.033	-3.1	103	0.00	7.46- 7.66
30	L8	Toxaphene{E}	0.030	0.031	-3.3	102	0.00	8.34- 8.54
31	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	104	0.00	1.39- 1.59
32		Chlordane {A}		----------NA----------				
33		Chlordane {B}		----------NA----------				
34		Chlordane {C}		----------NA----------				
35		Chlordane {D}		----------NA----------				
36		Chlordane {E}		----------NA----------				

(#) = Out of Range SPCC's out = 0 CCC's out = 0
1G123066.D 1PST3988.M Mon May 16 15:08:05 2016 RPT1

10.9.5 10

Continuing Calibration Summary

Job Number: JC21347 **Sample:** G1G4003-CC3988
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 1G123817.D
Project: BMSMC, Building 5 Area, PR

Evaluate Continuing Calibration Report

```
Signal #1 : C:\MSDCHEM\1\DATA\1G4003\1G123817.D\ECD1A.CH Vial: 4
Signal #2 : C:\MSDCHEM\1\DATA\1G4003\1G123817.D\ECD2B.CH
Acq On    : 6-3-16 09:57:04 AM                      Operator: kristend
Sample    : cc3988-50                               Inst    : GC1G
Misc      : op94273,g1g4003,16.9,,,10,1             Multiplr: 1.00
IntFile Signal #1: autoint1.e     IntFile Signal #2: autoint2.e

Method       : C:\MSDCHEM\1\METHODS\1PST3988.M (Chemstation Integrator)
Title        : PEST/PCB
Last Update  : Thu Jun 02 13:15:36 2016
Response via : Multiple Level Calibration

Min. RRF     :   0.000  Min. Rel. Area :  50%  Max. R.T. Dev  0.10min
Max. RRF Dev :  20%     Max. Rel. Area : 200%
```

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT Window
1	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	138	0.01	1.30- 1.36
2	SAB	Tetrachloro-m-xylene	0.904	0.880	2.7	126	0.01	1.89- 1.95
3	A	alpha-BHC	1.292	1.304	-0.9	128	0.00	2.38- 2.44
4	MA	gamma-BHC	1.208	1.180	2.3	124	0.00	2.67- 2.73
5	MA	Heptachlor	1.229	1.208	1.7	132	0.00	3.16- 3.22
6	B	beta-BHC	0.578	0.508	12.1	121	0.00	2.75- 2.81
7	B	delta-BHC	1.184	1.109	6.3	119	0.00	2.94- 3.00
8	MB	Aldrin	1.120	1.144	-2.1	133	0.00	3.49- 3.55
9	B	Heptachlor Epoxide	1.104	1.047	5.2	126	0.00	4.20- 4.26
10	B	gamma-Chlordane	1.137	1.050	7.7	126	0.00	4.36- 4.42
11	B	alpha-Chlordane	1.127	1.059	6.0	128	0.00	4.53- 4.59
12	A	Endosulfan I	1.084	1.046	3.5	131	0.00	4.71- 4.77
13	B	4,4'-DDE	1.136	1.072	5.6	128	0.00	4.64- 4.70
14	MA	Dieldrin	1.129	1.120	0.8	132	0.00	5.03- 5.09
15	MA	Endrin	1.024	1.072	-4.7	144	0.00	5.35- 5.41
16	A	4,4'-DDD	0.893	0.858	3.9	127	0.00	5.46- 5.53
17	B	Endosulfan II	1.073	1.025	4.5	130	0.00	5.67- 5.73
18	MA	4,4'-DDT	0.972	0.899	7.5	123	0.00	5.88- 5.94
19	B	Endrin Aldehyde	0.847	0.792	6.5	129	0.00	6.30- 6.36
20	B	Endosulfan Sulfate	1.030	0.919	10.8	126	0.00	6.99- 7.05
21	A	Methoxychlor	0.576	0.517	10.2	125	0.00	6.66- 6.72
22		Mirex	0.980	0.859	12.3	126	0.00	6.78- 6.84
23	B	Endrin Ketone	1.165	0.998	14.3	116	0.00	7.41- 7.47
24	SA	Decachlorobiphenyl	1.229	1.151	6.3	134	0.00	9.18- 9.24
25	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	135	0.01	1.23- 1.43
26	L8	Toxaphene{A}		----------NA----------				
27	L8	Toxaphene{B}		----------NA----------				
28	L8	Toxaphene{C}		----------NA----------				
29	L8	Toxaphene{D}		----------NA----------				
30	L8	Toxaphene{E}		----------NA----------				
31	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	142	0.01	1.23- 1.43
32		Chlordane {A}		----------NA----------				
33		Chlordane {B}		----------NA----------				
34		Chlordane {C}		----------NA----------				
35		Chlordane {D}		----------NA----------				
36		Chlordane {E}		----------NA----------				

***** Signal #2 *****

10.9.6 10

Continuing Calibration Summary

Job Number: JC21347 **Sample:** G1G4003-CC3988
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 1G123817.D
Project: BMSMC, Building 5 Area, PR

1	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	124	0.01	1.46- 1.52
2	SAB	Tetrachloro-m-xylene	0.889	0.779	12.4	110	0.01	2.26- 2.32
3	A	alpha-BHC	1.332	1.221	8.3	114	0.01	2.90- 2.96
4	MA	gamma-BHC	1.205	1.086	9.9	112	0.01	3.31- 3.37
5	MA	Heptachlor	1.125	1.023	9.1	116	0.01	3.86- 3.92
6	B	beta-BHC	0.553	0.461	16.6	109	0.01	3.39- 3.45
7	B	delta-BHC	1.205	1.028	14.7	106	0.01	3.77- 3.83
8	MB	Aldrin	1.030	0.971	5.7	117	0.01	4.30- 4.36
9	B	Heptachlor Epoxide	0.921	0.876	4.9	121	0.01	5.09- 5.15
10	B	gamma-Chlordane	0.941	0.892	5.2	121	0.01	5.37- 5.43
11	B	alpha-Chlordane	0.932	0.859	7.8	119	0.02	5.59- 5.65
12	A	Endosulfan I	0.859	0.825	4.0	120	0.01	5.68- 5.74
13	B	4,4'-DDE	0.924	0.876	5.2	121	0.02	5.86- 5.92
14	MA	Dieldrin	0.965	0.928	3.8	122	0.02	6.11- 6.17
15	MA	Endrin	0.849	0.865	-1.9	132	0.02	6.60- 6.66
16	A	4,4'-DDD	0.761	0.740	2.8	122	0.02	6.79- 6.85
17	B	Endosulfan II	0.869	0.807	7.1	122	0.02	6.94- 7.00
18	MA	4,4'-DDT	0.747	0.701	6.2	116	0.02	7.31- 7.37
19	B	Endrin Aldehyde	0.667	0.630	5.5	121	0.02	7.51- 7.57
20	B	Endosulfan Sulfate	0.760	0.694	8.7	116	0.02	7.97- 8.03
21	A	Methoxychlor	0.401	0.373	7.0	124	0.02	8.55- 8.61
22		Mirex	0.635	0.580	8.7	123	0.02	8.84- 8.90
23	B	Endrin Ketone	0.853	0.738	13.5	112	0.02	8.91- 8.97
24	SA	Decachlorobiphenyl	0.625	0.604	3.4	129	0.03	10.63-10.69
25	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	123	0.01	1.39- 1.59
26	L8	Toxaphene{A}		----------NA----------				
27	L8	Toxaphene{B}		----------NA----------				
28	L8	Toxaphene{C}		----------NA----------				
29	L8	Toxaphene{D}		----------NA----------				
30	L8	Toxaphene{E}		----------NA----------				
31	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	128	0.01	1.39- 1.59
32		Chlordane {A}		----------NA----------				
33		Chlordane {B}		----------NA----------				
34		Chlordane {C}		----------NA----------				
35		Chlordane {D}		----------NA----------				
36		Chlordane {E}		----------NA----------				

(#) = Out of Range SPCC's out = 0 CCC's out = 0
1G123066.D 1PST3988.M Fri Jun 03 10:39:16 2016 RPT1

10.9.6

10

Continuing Calibration Summary

Job Number: JC21347 **Sample:** G1G4003-CC3988
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 1G123839.D
Project: BMSMC, Building 5 Area, PR

Evaluate Continuing Calibration Report

```
Signal #1 : C:\MSDCHEM\1\DATA\1G4003\1G123839.D\ECD1A.CH Vial: 2
Signal #2 : C:\MSDCHEM\1\DATA\1G4003\1G123839.D\ECD2B.CH
Acq On    : 6-3-16 05:45:48 PM                        Operator: dharas
Sample    : cc3988-25                                 Inst    : GC1G
Misc      : op94273,g1g4003,16.4,,,10,1               Multiplr: 1.00
IntFile Signal #1: autoint1.e     IntFile Signal #2: autoint2.e

Method       : C:\MSDCHEM\1\METHODS\1PST3988.M (Chemstation Integrator)
Title        : PEST/PCB
Last Update  : Thu Jun 02 13:15:36 2016
Response via : Multiple Level Calibration

Min. RRF     :   0.000  Min. Rel. Area :  50%  Max. R.T. Dev  0.10min
Max. RRF Dev :  20%     Max. Rel. Area : 200%
```

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT Window
1	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	135	0.00	1.30- 1.36
2	SAB	Tetrachloro-m-xylene	0.904	0.910	-0.7	132	0.00	1.89- 1.95
3	A	alpha-BHC	1.292	1.328	-2.8	139	0.00	2.38- 2.44
4	MA	gamma-BHC	1.208	1.222	-1.2	136	0.00	2.67- 2.73
5	MA	Heptachlor	1.229	1.267	-3.1	142	0.00	3.16- 3.22
6	B	beta-BHC	0.578	0.557	3.6	133	0.00	2.75- 2.81
7	B	delta-BHC	1.184	1.190	-0.5	138	0.00	2.93- 2.99
8	MB	Aldrin	1.120	1.177	-5.1	142	0.00	3.49- 3.55
9	B	Heptachlor Epoxide	1.104	1.088	1.4	134	0.00	4.20- 4.26
10	B	gamma-Chlordane	1.137	1.092	4.0	135	0.00	4.36- 4.42
11	B	alpha-Chlordane	1.127	1.108	1.7	136	0.00	4.53- 4.59
12	A	Endosulfan I	1.084	1.083	0.1	138	0.00	4.71- 4.77
13	B	4,4'-DDE	1.136	1.124	1.1	137	0.00	4.64- 4.70
14	MA	Dieldrin	1.129	1.146	-1.5	139	0.00	5.02- 5.08
15	MA	Endrin	1.024	1.098	-7.2	151	0.00	5.35- 5.41
16	A	4,4'-DDD	0.893	0.920	-3.0	141	0.00	5.46- 5.53
17	B	Endosulfan II	1.073	1.075	-0.2	138	0.00	5.67- 5.73
18	MA	4,4'-DDT	0.972	0.892	8.2	126	0.00	5.88- 5.94
19	B	Endrin Aldehyde	0.847	0.852	-0.6	141	0.00	6.30- 6.36
20	B	Endosulfan Sulfate	1.030	0.984	4.5	135	0.00	6.98- 7.04
21	A	Methoxychlor	0.576	0.545	5.4	129	0.00	6.66- 6.72
22		Mirex	0.980	0.928	5.3	131	0.00	6.78- 6.84
23	B	Endrin Ketone	1.165	1.108	4.9	130	0.00	7.41- 7.47
24	SA	Decachlorobiphenyl	1.229	1.144	6.9	129	0.00	9.18- 9.24
25	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	0#	0.00	1.23- 1.43
26	L8	Toxaphene{A}		----------NA----------				
27	L8	Toxaphene{B}		----------NA----------				
28	L8	Toxaphene{C}		----------NA----------				
29	L8	Toxaphene{D}		----------NA----------				
30	L8	Toxaphene{E}		----------NA----------				
31	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	0#	0.00	1.23- 1.43
32		Chlordane {A}		----------NA----------				
33		Chlordane {B}		----------NA----------				
34		Chlordane {C}		----------NA----------				
35		Chlordane {D}		----------NA----------				
36		Chlordane {E}		----------NA----------				

***** Signal #2 *****

10.9.7 10

Continuing Calibration Summary

Job Number: JC21347 **Sample:** G1G4003-CC3988
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 1G123839.D
Project: BMSMC, Building 5 Area, PR

1	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	122	0.00	1.46- 1.52
2	SAB	Tetrachloro-m-xylene	0.889	0.827	7.0	112	0.01	2.26- 2.32
3	A	alpha-BHC	1.332	1.299	2.5	119	0.01	2.90- 2.96
4	MA	gamma-BHC	1.205	1.167	3.2	118	0.01	3.31- 3.37
5	MA	Heptachlor	1.125	1.112	1.2	123	0.01	3.86- 3.92
6	B	beta-BHC	0.553	0.518	6.3	114	0.01	3.39- 3.45
7	B	delta-BHC	1.205	1.141	5.3	116	0.01	3.77- 3.83
8	MB	Aldrin	1.030	1.044	-1.4	123	0.01	4.30- 4.36
9	B	Heptachlor Epoxide	0.921	0.925	-0.4	123	0.01	5.09- 5.15
10	B	gamma-Chlordane	0.941	0.946	-0.5	123	0.01	5.37- 5.43
11	B	alpha-Chlordane	0.932	0.917	1.6	122	0.02	5.59- 5.65
12	A	Endosulfan I	0.859	0.873	-1.6	120	0.02	5.68- 5.74
13	B	4,4'-DDE	0.924	0.923	0.1	122	0.02	5.86- 5.92
14	MA	Dieldrin	0.965	0.963	0.2	122	0.01	6.11- 6.17
15	MA	Endrin	0.849	0.911	-7.3	134	0.02	6.60- 6.66
16	A	4,4'-DDD	0.761	0.808	-6.2	128	0.02	6.79- 6.85
17	B	Endosulfan II	0.869	0.850	2.2	122	0.02	6.94- 7.00
18	MA	4,4'-DDT	0.747	0.690	7.6	110	0.02	7.31- 7.37
19	B	Endrin Aldehyde	0.667	0.663	0.6	123	0.02	7.51- 7.57
20	B	Endosulfan Sulfate	0.760	0.731	3.8	117	0.02	7.97- 8.03
21	A	Methoxychlor	0.401	0.369	8.0	118	0.02	8.55- 8.61
22		Mirex	0.635	0.589	7.2	118	0.02	8.84- 8.90
23	B	Endrin Ketone	0.853	0.787	7.7	114	0.02	8.92- 8.98
24	SA	Decachlorobiphenyl	0.625	0.518	17.1	104	0.03	10.63-10.69
25	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	0#	0.00	1.39- 1.59
26	L8	Toxaphene{A}		----------NA----------				
27	L8	Toxaphene{B}		----------NA----------				
28	L8	Toxaphene{C}		----------NA----------				
29	L8	Toxaphene{D}		----------NA----------				
30	L8	Toxaphene{E}		----------NA----------				
31	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	0#	0.00	1.39- 1.59
32		Chlordane {A}		----------NA----------				
33		Chlordane {B}		----------NA----------				
34		Chlordane {C}		----------NA----------				
35		Chlordane {D}		----------NA----------				
36		Chlordane {E}		----------NA----------				

(#) = Out of Range SPCC's out = 0 CCC's out = 0
1G123065.D 1PST3988.M Mon Jun 06 12:06:42 2016 RPT1

10.9.7 10

Continuing Calibration Summary

Job Number: JC21347 **Sample:** G1G4004-CC3988
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 1G123903.D
Project: BMSMC, Building 5 Area, PR

Evaluate Continuing Calibration Report

```
Signal #1 : C:\MSDCHEM\1\DATA\1G4004\1G123903.D\ECD1A.CH Vial: 2
Signal #2 : C:\MSDCHEM\1\DATA\1G4004\1G123903.D\ECD2B.CH
Acq On    : 07 Jun 2016  12:04 am                    Operator: dharas
Sample    : cc3988-25                                Inst    : GC1G
Misc      : op94247,g1g4004,100,,,10,1               Multiplr: 1.00
IntFile Signal #1: autoint1.e     IntFile Signal #2: autoint2.e

Method       : C:\MSDCHEM\1\METHODS\1PST3988.M (Chemstation Integrator)
Title        : PEST/PCB
Last Update  : Thu Jun 02 13:15:36 2016
Response via : Multiple Level Calibration

Min. RRF     :   0.000  Min. Rel. Area :  50%  Max. R.T. Dev  0.10min
Max. RRF Dev :  20%     Max. Rel. Area : 200%
```

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT Window
1	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	137	0.00	1.29- 1.35
2	SAB	Tetrachloro-m-xylene	0.904	0.872	3.5	128	0.00	1.89- 1.95
3	A	alpha-BHC	1.292	1.246	3.6	132	0.00	2.37- 2.43
4	MA	gamma-BHC	1.208	1.171	3.1	131	0.00	2.67- 2.73
5	MA	Heptachlor	1.229	1.181	3.9	134	0.00	3.16- 3.22
6	B	beta-BHC	0.578	0.535	7.4	129	0.00	2.75- 2.81
7	B	delta-BHC	1.184	1.097	7.3	129	0.00	2.93- 2.99
8	MB	Aldrin	1.120	1.145	-2.2	140	0.00	3.49- 3.55
9	B	Heptachlor Epoxide	1.104	1.121	-1.5	140	0.00	4.20- 4.26
10	B	gamma-Chlordane	1.137	1.113	2.1	139	0.00	4.36- 4.42
11	B	alpha-Chlordane	1.127	1.113	1.2	139	0.00	4.52- 4.58
12	A	Endosulfan I	1.084	1.093	-0.8	141	0.00	4.71- 4.77
13	B	4,4'-DDE	1.136	1.083	4.7	133	0.00	4.64- 4.70
14	MA	Dieldrin	1.129	1.138	-0.8	140	0.00	5.02- 5.08
15	MA	Endrin	1.024	1.067	-4.2	148	0.00	5.34- 5.40
16	A	4,4'-DDD	0.893	0.853	4.5	132	0.00	5.47- 5.54
17	B	Endosulfan II	1.073	1.046	2.5	136	0.00	5.67- 5.73
18	MA	4,4'-DDT	0.972	0.849	12.7	121	0.00	5.88- 5.94
19	B	Endrin Aldehyde	0.847	0.838	1.1	140	0.00	6.30- 6.36
20	B	Endosulfan Sulfate	1.030	0.896	13.0	124	0.00	6.99- 7.05
21	A	Methoxychlor	0.576	0.514	10.8	123	0.00	6.66- 6.72
22		Mirex	0.980	0.942	3.9	134	0.00	6.78- 6.84
23	B	Endrin Ketone	1.165	1.004	13.8	119	0.00	7.41- 7.47
24	SA	Decachlorobiphenyl	1.229	1.227	0.2	140	0.00	9.19- 9.25
25	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	0#	0.00	1.22- 1.42
26	L8	Toxaphene{A}		----------NA----------				
27	L8	Toxaphene{B}		----------NA----------				
28	L8	Toxaphene{C}		----------NA----------				
29	L8	Toxaphene{D}		----------NA----------				
30	L8	Toxaphene{E}		----------NA----------				
31	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	0#	0.00	1.22- 1.42
32		Chlordane {A}		----------NA----------				
33		Chlordane {B}		----------NA----------				
34		Chlordane {C}		----------NA----------				
35		Chlordane {D}		----------NA----------				
36		Chlordane {E}		----------NA----------				

***** Signal #2 *****

10.9.8 10

Continuing Calibration Summary

Job Number: JC21347 **Sample:** G1G4004-CC3988
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 1G123903.D
Project: BMSMC, Building 5 Area, PR

1	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	125	0.00	1.46- 1.52
2	SAB	Tetrachloro-m-xylene	0.889	0.881	0.9	122	0.00	2.26- 2.32
3	A	alpha-BHC	1.332	1.319	1.0	124	0.00	2.90- 2.96
4	MA	gamma-BHC	1.205	1.198	0.6	124	0.01	3.31- 3.37
5	MA	Heptachlor	1.125	1.120	0.4	127	0.01	3.86- 3.92
6	B	beta-BHC	0.553	0.535	3.3	120	0.01	3.39- 3.45
7	B	delta-BHC	1.205	1.171	2.8	122	0.01	3.77- 3.83
8	MB	Aldrin	1.030	1.130	-9.7	136	0.01	4.29- 4.35
9	B	Heptachlor Epoxide	0.921	1.043	-13.2	142	0.01	5.09- 5.15
10	B	gamma-Chlordane	0.941	1.053	-11.9	140	0.01	5.37- 5.43
11	B	alpha-Chlordane	0.932	1.026	-10.1	140	0.01	5.59- 5.65
12	A	Endosulfan I	0.859	0.987	-14.9	139	0.01	5.68- 5.74
13	B	4,4'-DDE	0.924	1.013	-9.6	137	0.02	5.86- 5.92
14	MA	Dieldrin	0.965	1.085	-12.4	141	0.01	6.10- 6.16
15	MA	Endrin	0.849	0.988	-16.4	149	0.01	6.60- 6.66
16	A	4,4'-DDD	0.761	0.873	-14.7	141	0.02	6.79- 6.85
17	B	Endosulfan II	0.869	0.940	-8.2	138	0.02	6.94- 7.00
18	MA	4,4'-DDT	0.747	0.772	-3.3	126	0.02	7.31- 7.37
19	B	Endrin Aldehyde	0.667	0.759	-13.8	144	0.02	7.51- 7.57
20	B	Endosulfan Sulfate	0.760	0.780	-2.6	128	0.02	7.97- 8.03
21	A	Methoxychlor	0.401	0.439	-9.5	143	0.02	8.55- 8.61
22		Mirex	0.635	0.751	-18.3	154	0.02	8.84- 8.90
23	B	Endrin Ketone	0.853	0.864	-1.3	128	0.02	8.91- 8.97
24	SA	Decachlorobiphenyl	0.625	0.740	-18.4	152	0.03	10.63-10.69
25	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	0#	0.00	1.39- 1.59
26	L8	Toxaphene{A}		----------NA----------				
27	L8	Toxaphene{B}		----------NA----------				
28	L8	Toxaphene{C}		----------NA----------				
29	L8	Toxaphene{D}		----------NA----------				
30	L8	Toxaphene{E}		----------NA----------				
31	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	0#	0.00	1.39- 1.59
32		Chlordane {A}		----------NA----------				
33		Chlordane {B}		----------NA----------				
34		Chlordane {C}		----------NA----------				
35		Chlordane {D}		----------NA----------				
36		Chlordane {E}		----------NA----------				

(#) = Out of Range SPCC's out = 0 CCC's out = 0
1G123065.D 1PST3988.M Tue Jun 07 14:53:25 2016 RPT1

10.9.8 10

Continuing Calibration Summary

Job Number: JC21347 **Sample:** G1G4005-CC3988
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 1G123934.D
Project: BMSMC, Building 5 Area, PR

Evaluate Continuing Calibration Report

```
Signal #1 : C:\MSDCHEM\1\DATA\1G4005\1G123934.D\ECD1A.CH Vial: 2
Signal #2 : C:\MSDCHEM\1\DATA\1G4005\1G123934.D\ECD2B.CH
Acq On    : 07 Jun 2016  11:39 am                    Operator: kristend
Sample    : cc3988-25                                Inst    : GC1G
Misc      : op94430,g1g4005,15.7,,,10,1              Multiplr: 1.00
IntFile Signal #1: autoint1.e     IntFile Signal #2: autoint2.e

Method       : C:\MSDCHEM\1\METHODS\1PST3988.M (Chemstation Integrator)
Title        : PEST/PCB
Last Update  : Thu Jun 02 13:15:36 2016
Response via : Multiple Level Calibration

Min. RRF     :   0.000  Min. Rel. Area :  50%  Max. R.T. Dev  0.10min
Max. RRF Dev :  20%     Max. Rel. Area : 200%
```

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT Window
1	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	130	0.00	1.30- 1.36
2	SAB	Tetrachloro-m-xylene	0.904	0.829	8.3	116	0.00	1.89- 1.95
3	A	alpha-BHC	1.292	1.174	9.1	119	0.00	2.38- 2.44
4	MA	gamma-BHC	1.208	1.093	9.5	117	0.00	2.67- 2.73
5	MA	Heptachlor	1.229	1.117	9.1	121	0.00	3.16- 3.22
6	B	beta-BHC	0.578	0.495	14.4	114	0.00	2.75- 2.81
7	B	delta-BHC	1.184	1.044	11.8	117	0.00	2.94- 3.00
8	MB	Aldrin	1.120	0.997	11.0	116	0.00	3.49- 3.55
9	B	Heptachlor Epoxide	1.104	0.967	12.4	115	0.00	4.20- 4.26
10	B	gamma-Chlordane	1.137	0.977	14.1	117	0.00	4.36- 4.42
11	B	alpha-Chlordane	1.127	0.987	12.4	117	0.00	4.53- 4.59
12	A	Endosulfan I	1.084	0.971	10.4	119	0.00	4.71- 4.77
13	B	4,4'-DDE	1.136	0.993	12.6	117	0.00	4.64- 4.70
14	MA	Dieldrin	1.129	1.031	8.7	121	0.00	5.03- 5.09
15	MA	Endrin	1.024	0.982	4.1	130	0.00	5.35- 5.41
16	A	4,4'-DDD	0.893	0.808	9.5	120	0.00	5.47- 5.54
17	B	Endosulfan II	1.073	0.979	8.8	121	0.00	5.67- 5.73
18	MA	4,4'-DDT	0.972	0.821	15.5	112	0.00	5.88- 5.94
19	B	Endrin Aldehyde	0.847	0.779	8.0	125	0.00	6.30- 6.36
20	B	Endosulfan Sulfate	1.030	0.914	11.3	121	0.00	6.99- 7.05
21	A	Methoxychlor	0.576	0.504	12.5	115	0.00	6.66- 6.72
22		Mirex	0.980	0.853	13.0	116	0.00	6.79- 6.85
23	B	Endrin Ketone	1.165	1.032	11.4	117	0.00	7.42- 7.48
24	SA	Decachlorobiphenyl	1.229	1.155	6.0	125	0.00	9.19- 9.25
25	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	0#	0.00	1.23- 1.43
26	L8	Toxaphene{A}		----------NA----------				
27	L8	Toxaphene{B}		----------NA----------				
28	L8	Toxaphene{C}		----------NA----------				
29	L8	Toxaphene{D}		----------NA----------				
30	L8	Toxaphene{E}		----------NA----------				
31	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	0#	0.00	1.23- 1.43
32		Chlordane {A}		----------NA----------				
33		Chlordane {B}		----------NA----------				
34		Chlordane {C}		----------NA----------				
35		Chlordane {D}		----------NA----------				
36		Chlordane {E}		----------NA----------				

***** Signal #2 *****

10.9.9 10

Continuing Calibration Summary

Job Number: JC21347 **Sample:** G1G4005-CC3988
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 1G123934.D
Project: BMSMC, Building 5 Area, PR

1	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	119	0.00	1.46- 1.52
2	SAB	Tetrachloro-m-xylene	0.889	0.824	7.3	109	0.00	2.26- 2.32
3	A	alpha-BHC	1.332	1.202	9.8	108	0.00	2.90- 2.96
4	MA	gamma-BHC	1.205	1.069	11.3	105	0.01	3.31- 3.37
5	MA	Heptachlor	1.125	0.971	13.7	105	0.00	3.86- 3.92
6	B	beta-BHC	0.553	0.472	14.6	101	0.01	3.39- 3.45
7	B	delta-BHC	1.205	1.007	16.4	100	0.01	3.77- 3.83
8	MB	Aldrin	1.030	0.899	12.7	103	0.01	4.29- 4.35
9	B	Heptachlor Epoxide	0.921	0.837	9.1	109	0.01	5.09- 5.15
10	B	gamma-Chlordane	0.941	0.837	11.1	106	0.01	5.37- 5.43
11	B	alpha-Chlordane	0.932	0.833	10.6	108	0.01	5.59- 5.65
12	A	Endosulfan I	0.859	0.811	5.6	109	0.01	5.68- 5.74
13	B	4,4'-DDE	0.924	0.844	8.7	109	0.01	5.86- 5.92
14	MA	Dieldrin	0.965	0.882	8.6	109	0.01	6.10- 6.16
15	MA	Endrin	0.849	0.845	0.5	122	0.01	6.59- 6.65
16	A	4,4'-DDD	0.761	0.744	2.2	115	0.02	6.79- 6.85
17	B	Endosulfan II	0.869	0.799	8.1	112	0.02	6.94- 7.00
18	MA	4,4'-DDT	0.747	0.670	10.3	105	0.02	7.31- 7.37
19	B	Endrin Aldehyde	0.667	0.644	3.4	116	0.02	7.51- 7.57
20	B	Endosulfan Sulfate	0.760	0.714	6.1	112	0.02	7.97- 8.03
21	A	Methoxychlor	0.401	0.368	8.2	115	0.02	8.55- 8.61
22		Mirex	0.635	0.585	7.9	114	0.02	8.84- 8.90
23	B	Endrin Ketone	0.853	0.772	9.5	109	0.02	8.91- 8.97
24	SA	Decachlorobiphenyl	0.625	0.569	9.0	112	0.03	10.63-10.69
25	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	0#	0.00	1.39- 1.59
26	L8	Toxaphene{A}		----------NA----------				
27	L8	Toxaphene{B}		----------NA----------				
28	L8	Toxaphene{C}		----------NA----------				
29	L8	Toxaphene{D}		----------NA----------				
30	L8	Toxaphene{E}		----------NA----------				
31	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	0#	0.00	1.39- 1.59
32		Chlordane {A}		----------NA----------				
33		Chlordane {B}		----------NA----------				
34		Chlordane {C}		----------NA----------				
35		Chlordane {D}		----------NA----------				
36		Chlordane {E}		----------NA----------				

(#) = Out of Range SPCC's out = 0 CCC's out = 0
1G123065.D 1PST3988.M Tue Jun 07 12:36:16 2016 RPT1

10.9.9 10

Continuing Calibration Summary

Job Number: JC21347 **Sample:** G1G4005-CC3988
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 1G123969.D
Project: BMSMC, Building 5 Area, PR

Evaluate Continuing Calibration Report

```
Signal #1 : C:\MSDCHEM\1\DATA\1G4005\1G123969.D\ECD1A.CH Vial: 4
Signal #2 : C:\MSDCHEM\1\DATA\1G4005\1G123969.D\ECD2B.CH
Acq On    : 6-8-16 01:53:29 AM                        Operator: dharas
Sample    : cc3988-50                                 Inst    : GC1G
Misc      : op94510,g1g4005,500,,,5,1                 Multiplr: 1.00
IntFile Signal #1: autoint1.e     IntFile Signal #2: autoint2.e

Method       : C:\MSDCHEM\1\METHODS\1PST3988.M (Chemstation Integrator)
Title        : PEST/PCB
Last Update  : Wed Jun 08 08:45:23 2016
Response via : Multiple Level Calibration

Min. RRF     :   0.000  Min. Rel. Area :  50%  Max. R.T. Dev  0.10min
Max. RRF Dev :  20%     Max. Rel. Area : 200%
```

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT Window
1	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	143	0.00	1.32- 1.38
2	SAB	Tetrachloro-m-xylene	0.904	0.887	1.9	133	0.00	1.91- 1.97
3	A	alpha-BHC	1.292	1.320	-2.2	135	0.00	2.39- 2.45
4	MA	gamma-BHC	1.208	1.225	-1.4	134	0.00	2.68- 2.74
5	MA	Heptachlor	1.229	1.232	-0.2	140	0.00	3.17- 3.23
6	B	beta-BHC	0.578	0.528	8.7	131	0.00	2.76- 2.82
7	B	delta-BHC	1.184	1.180	0.3	132	0.00	2.94- 3.00
8	MB	Aldrin	1.120	1.176	-5.0	142	0.00	3.49- 3.55
9	B	Heptachlor Epoxide	1.104	1.117	-1.2	141	0.00	4.20- 4.26
10	B	gamma-Chlordane	1.137	1.124	1.1	141	0.00	4.36- 4.42
11	B	alpha-Chlordane	1.127	1.108	1.7	140	0.00	4.53- 4.59
12	A	Endosulfan I	1.084	1.082	0.2	141	0.00	4.71- 4.77
13	B	4,4'-DDE	1.136	1.071	5.7	133	0.00	4.64- 4.70
14	MA	Dieldrin	1.129	1.140	-1.0	140	0.00	5.03- 5.09
15	MA	Endrin	1.024	1.002	2.1	140	0.00	5.35- 5.41
16	A	4,4'-DDD	0.893	0.845	5.4	130	0.00	5.47- 5.54
17	B	Endosulfan II	1.073	1.028	4.2	136	0.00	5.67- 5.73
18	MA	4,4'-DDT	0.972	0.856	11.9	122	0.00	5.88- 5.94
19	B	Endrin Aldehyde	0.847	0.847	0.0	143	0.00	6.30- 6.36
20	B	Endosulfan Sulfate	1.030	0.952	7.6	135	0.00	6.98- 7.04
21	A	Methoxychlor	0.576	0.495	14.1	124	0.00	6.66- 6.72
22		Mirex	0.980	0.884	9.8	135	0.00	6.78- 6.84
23	B	Endrin Ketone	1.165	1.160	0.4	141	0.00	7.41- 7.47
24	SA	Decachlorobiphenyl	1.229	1.114	9.4	135	0.00	9.18- 9.24
25	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	141	0.00	1.25- 1.45
26	L8	Toxaphene{A}		----------NA----------				
27	L8	Toxaphene{B}		----------NA----------				
28	L8	Toxaphene{C}		----------NA----------				
29	L8	Toxaphene{D}		----------NA----------				
30	L8	Toxaphene{E}		----------NA----------				
31	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	148	0.00	1.25- 1.45
32		Chlordane {A}		----------NA----------				
33		Chlordane {B}		----------NA----------				
34		Chlordane {C}		----------NA----------				
35		Chlordane {D}		----------NA----------				
36		Chlordane {E}		----------NA----------				

***** Signal #2 *****

10.9.10 10

Continuing Calibration Summary

Job Number: JC21347 **Sample:** G1G4005-CC3988
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 1G123969.D
Project: BMSMC, Building 5 Area, PR

1	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	132	0.00	1.48- 1.54
2	SAB	Tetrachloro-m-xylene	0.889	0.838	5.7	126	0.00	2.27- 2.33
3	A	alpha-BHC	1.332	1.286	3.5	128	0.00	2.91- 2.97
4	MA	gamma-BHC	1.205	1.153	4.3	127	0.00	3.31- 3.37
5	MA	Heptachlor	1.125	1.101	2.1	132	0.00	3.87- 3.93
6	B	beta-BHC	0.553	0.499	9.8	125	0.00	3.40- 3.46
7	B	delta-BHC	1.205	1.162	3.6	127	0.00	3.77- 3.83
8	MB	Aldrin	1.030	1.078	-4.7	138	0.00	4.30- 4.36
9	B	Heptachlor Epoxide	0.921	0.970	-5.3	142	0.00	5.09- 5.15
10	B	gamma-Chlordane	0.941	0.986	-4.8	142	0.00	5.37- 5.43
11	B	alpha-Chlordane	0.932	0.955	-2.5	141	0.00	5.59- 5.65
12	A	Endosulfan I	0.859	0.912	-6.2	141	0.00	5.68- 5.74
13	B	4,4'-DDE	0.924	0.949	-2.7	139	0.00	5.86- 5.92
14	MA	Dieldrin	0.965	0.995	-3.1	139	0.00	6.10- 6.16
15	MA	Endrin	0.849	0.853	-0.5	138	0.00	6.60- 6.66
16	A	4,4'-DDD	0.761	0.808	-6.2	142	0.00	6.79- 6.85
17	B	Endosulfan II	0.869	0.874	-0.6	140	0.00	6.94- 7.00
18	MA	4,4'-DDT	0.747	0.726	2.8	128	0.00	7.31- 7.37
19	B	Endrin Aldehyde	0.667	0.713	-6.9	146	0.00	7.50- 7.56
20	B	Endosulfan Sulfate	0.760	0.770	-1.3	137	0.00	7.97- 8.03
21	A	Methoxychlor	0.401	0.386	3.7	136	0.00	8.55- 8.61
22		Mirex	0.635	0.629	0.9	141	0.00	8.84- 8.90
23	B	Endrin Ketone	0.853	0.887	-4.0	143	0.00	8.91- 8.97
24	SA	Decachlorobiphenyl	0.625	0.550	12.0	124	0.00	10.63-10.69
25	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	131	0.00	1.41- 1.61
26	L8	Toxaphene{A}		----------NA----------				
27	L8	Toxaphene{B}		----------NA----------				
28	L8	Toxaphene{C}		----------NA----------				
29	L8	Toxaphene{D}		----------NA----------				
30	L8	Toxaphene{E}		----------NA----------				
31	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	136	0.00	1.41- 1.61
32		Chlordane {A}		----------NA----------				
33		Chlordane {B}		----------NA----------				
34		Chlordane {C}		----------NA----------				
35		Chlordane {D}		----------NA----------				
36		Chlordane {E}		----------NA----------				

(#) = Out of Range SPCC's out = 0 CCC's out = 0
1G123066.D 1PST3988.M Wed Jun 08 11:17:05 2016 RPT1

10.9.10 10

Continuing Calibration Summary

Job Number: JC21347 **Sample:** G1G4006-CC3988
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 1G123994.D
Project: BMSMC, Building 5 Area, PR

Evaluate Continuing Calibration Report

```
Signal #1 : C:\MSDCHEM\1\DATA\1G4006\1G123994.D\ECD1A.CH Vial: 2
Signal #2 : C:\MSDCHEM\1\DATA\1G4006\1G123994.D\ECD2B.CH
Acq On    : 6-8-16 09:34:37 AM                      Operator: dharas
Sample    : cc3988-25                               Inst    : GC1G
Misc      : op94442,g1g4006,16.0,,,10,1             Multiplr: 1.00
IntFile Signal #1: autoint1.e     IntFile Signal #2: autoint2.e

Method       : C:\MSDCHEM\1\METHODS\1PST3988.M (Chemstation Integrator)
Title        : PEST/PCB
Last Update  : Wed Jun 08 12:13:19 2016
Response via : Multiple Level Calibration

Min. RRF     :   0.000  Min. Rel. Area :  50%  Max. R.T. Dev  0.10min
Max. RRF Dev :  20%     Max. Rel. Area : 200%
```

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT Window
1	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	124	0.00	1.30- 1.36
2	SAB	Tetrachloro-m-xylene	0.904	0.878	2.9	117	0.00	1.89- 1.95
3	A	alpha-BHC	1.292	1.231	4.7	118	0.00	2.37- 2.43
4	MA	gamma-BHC	1.208	1.095	9.4	111	0.00	2.67- 2.73
5	MA	Heptachlor	1.229	1.142	7.1	118	0.00	3.16- 3.22
6	B	beta-BHC	0.578	0.496	14.2	109	0.00	2.75- 2.81
7	B	delta-BHC	1.184	1.026	13.3	109	0.00	2.93- 2.99
8	MB	Aldrin	1.120	1.075	4.0	119	0.00	3.49- 3.55
9	B	Heptachlor Epoxide	1.104	0.980	11.2	111	0.00	4.20- 4.26
10	B	gamma-Chlordane	1.137	0.997	12.3	113	0.00	4.35- 4.41
11	B	alpha-Chlordane	1.127	1.019	9.6	115	0.00	4.52- 4.58
12	A	Endosulfan I	1.084	1.007	7.1	118	0.00	4.70- 4.76
13	B	4,4'-DDE	1.136	1.019	10.3	114	0.00	4.63- 4.69
14	MA	Dieldrin	1.129	1.061	6.0	118	0.00	5.02- 5.08
15	MA	Endrin	1.024	1.016	0.8	128	0.00	5.34- 5.40
16	A	4,4'-DDD	0.893	0.815	8.7	114	0.00	5.46- 5.53
17	B	Endosulfan II	1.073	0.997	7.1	117	0.00	5.66- 5.72
18	MA	4,4'-DDT	0.972	0.805	17.2	104	0.00	5.88- 5.94
19	B	Endrin Aldehyde	0.847	0.788	7.0	120	0.00	6.30- 6.36
20	B	Endosulfan Sulfate	1.030	0.924	10.3	116	0.00	6.98- 7.04
21	A	Methoxychlor	0.576	0.510	11.5	111	0.00	6.66- 6.72
22		Mirex	0.980	0.878	10.4	113	0.00	6.78- 6.84
23	B	Endrin Ketone	1.165	1.045	10.3	113	0.00	7.41- 7.47
24	SA	Decachlorobiphenyl	1.229	1.170	4.8	121	0.00	9.18- 9.24
25	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	0#	0.00	1.23- 1.43
26	L8	Toxaphene{A}		----------NA----------				
27	L8	Toxaphene{B}		----------NA----------				
28	L8	Toxaphene{C}		----------NA----------				
29	L8	Toxaphene{D}		----------NA----------				
30	L8	Toxaphene{E}		----------NA----------				
31	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	0#	0.00	1.23- 1.43
32		Chlordane {A}		----------NA----------				
33		Chlordane {B}		----------NA----------				
34		Chlordane {C}		----------NA----------				
35		Chlordane {D}		----------NA----------				
36		Chlordane {E}		----------NA----------				

***** Signal #2 *****

10.9.11 10

Continuing Calibration Summary

Job Number: JC21347 **Sample:** G1G4006-CC3988
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 1G123994.D
Project: BMSMC, Building 5 Area, PR

1	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	114	0.00	1.46- 1.52
2	SAB	Tetrachloro-m-xylene	0.889	0.887	0.2	112	0.00	2.26- 2.32
3	A	alpha-BHC	1.332	1.256	5.7	108	0.00	2.90- 2.96
4	MA	gamma-BHC	1.205	1.100	8.7	104	0.00	3.31- 3.37
5	MA	Heptachlor	1.125	0.997	11.4	103	0.00	3.86- 3.92
6	B	beta-BHC	0.553	0.503	9.0	103	0.00	3.39- 3.45
7	B	delta-BHC	1.205	1.014	15.9	96	0.00	3.77- 3.83
8	MB	Aldrin	1.030	0.921	10.6	101	0.00	4.29- 4.35
9	B	Heptachlor Epoxide	0.921	0.842	8.6	105	0.00	5.09- 5.15
10	B	gamma-Chlordane	0.941	0.859	8.7	104	0.00	5.37- 5.43
11	B	alpha-Chlordane	0.932	0.854	8.4	106	0.00	5.59- 5.65
12	A	Endosulfan I	0.859	0.820	4.5	106	0.00	5.68- 5.74
13	B	4,4'-DDE	0.924	0.842	8.9	104	0.00	5.85- 5.91
14	MA	Dieldrin	0.965	0.887	8.1	105	0.00	6.10- 6.16
15	MA	Endrin	0.849	0.847	0.2	117	0.00	6.59- 6.65
16	A	4,4'-DDD	0.761	0.770	-1.2	114	0.00	6.79- 6.85
17	B	Endosulfan II	0.869	0.805	7.4	108	0.00	6.94- 7.00
18	MA	4,4'-DDT	0.747	0.656	12.2	98	0.00	7.31- 7.37
19	B	Endrin Aldehyde	0.667	0.665	0.3	115	0.00	7.50- 7.56
20	B	Endosulfan Sulfate	0.760	0.713	6.2	107	0.00	7.97- 8.03
21	A	Methoxychlor	0.401	0.360	10.2	107	0.00	8.55- 8.61
22		Mirex	0.635	0.602	5.2	113	0.00	8.84- 8.90
23	B	Endrin Ketone	0.853	0.792	7.2	107	0.00	8.91- 8.97
24	SA	Decachlorobiphenyl	0.625	0.616	1.4	116	0.00	10.63-10.69
25	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	0#	0.00	1.39- 1.59
26	L8	Toxaphene{A}		----------NA----------				
27	L8	Toxaphene{B}		----------NA----------				
28	L8	Toxaphene{C}		----------NA----------				
29	L8	Toxaphene{D}		----------NA----------				
30	L8	Toxaphene{E}		----------NA----------				
31	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	0#	0.00	1.39- 1.59
32		Chlordane {A}		----------NA----------				
33		Chlordane {B}		----------NA----------				
34		Chlordane {C}		----------NA----------				
35		Chlordane {D}		----------NA----------				
36		Chlordane {E}		----------NA----------				

(#) = Out of Range SPCC's out = 0 CCC's out = 0
1G123065.D 1PST3988.M Wed Jun 08 14:50:59 2016 RPT1

10.9.11 10

GC Semi-volatiles

Raw Data

Manual Integrations APPROVED (compounds with "m" flag)
Gwendolyn Burns 06/16/16 06:27

Quantitation Report (QT Reviewed)

```
Signal #1 : C:\MSDCHEM\1\DATA\1G4005\1G123987.D\ECD1A.CH Vial: 36
Signal #2 : C:\MSDCHEM\1\DATA\1G4005\1G123987.D\ECD2B.CH
Acq On    : 6-8-16 06:34:05 AM                        Operator: dharas
Sample    : jc21347-2                                 Inst    : GC1G
Misc      : op94442,g1g4005,16.0,,,10,1               Multiplr: 1.00
IntFile Signal #1: autoint1.e     IntFile Signal #2: autoint2.e
Quant Time: Jun 10 11:40 2016  Quant Results File: 1PST3988.RES

Quant Method : C:\MSDCHEM\1\METHODS\1PST3988.M (Chemstation Integrator)
Title        : PEST/PCB
Last Update  : Mon May 16 13:30:31 2016
Response via : Initial Calibration
DataAcq Meth : 1PST3988.M

Volume Inj.     : 1ul/column
Signal #1 Phase : RTXCLP I          Signal #2 Phase: RTX-CLP II
Signal #1 Info  : 30mx.32mmx.50um   Signal #2 Info : 30m x .32mm x .25um
```

Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
Internal Standards						
1) I 1-bromo-2-nitrob	1.35	1.51	199.8E6	1310.8E6	50.000	50.000
25) I 1-bromo-2-nitrob	1.35	1.51	199.8E6	1310.8E6	50.000	50.000
31) I 1-bromo-2-nitrob	1.35	1.51	199.8E6	1310.8E6	50.000	50.000
System Monitoring Compounds						
2) SAB Tetrachloro-m-xy	1.94	2.30	104.9E6	666.8E6	29.050m	28.595
Spiked Amount 40.000	Range 30 - 150		Recovery =		72.63%	71.49%
24) SA Decachlorobiphen	9.21	10.66	135.2E6	529.7E6	27.545	32.332
Spiked Amount 40.000			Recovery =		68.86%	80.83%
Target Compounds						

11.1.1

11

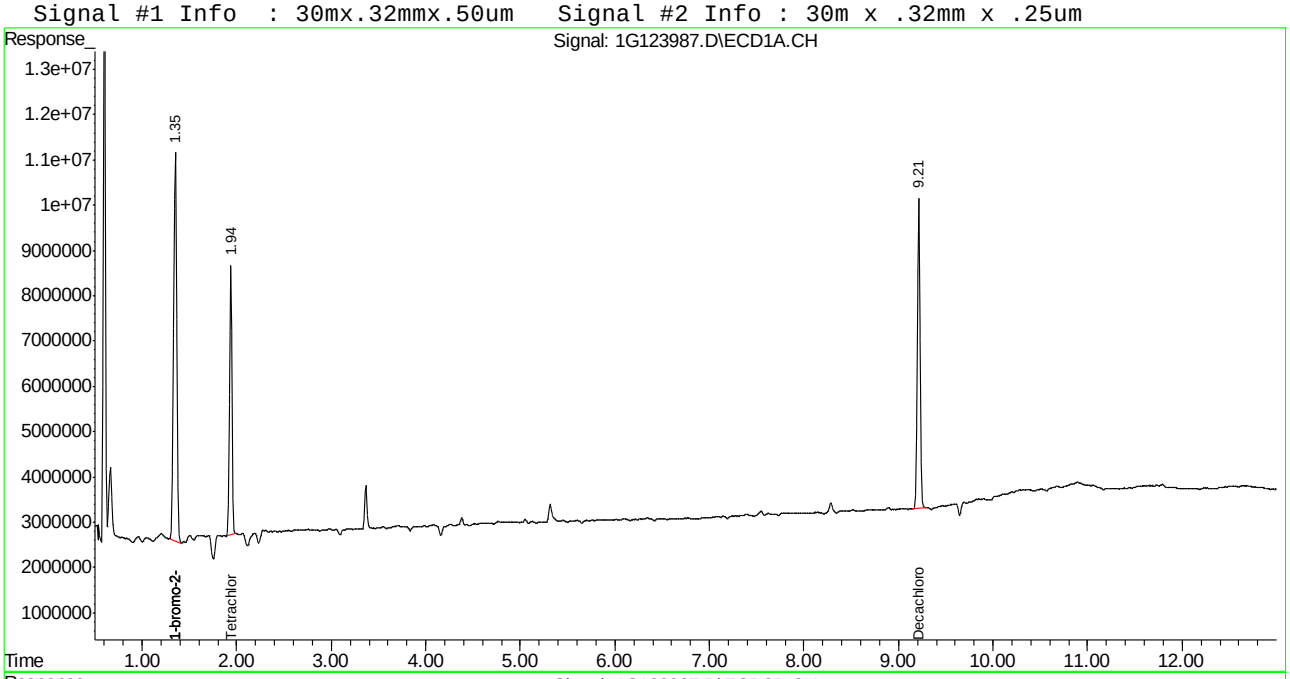
(f)=RT Delta > 1/2 Window (m)=manual int.

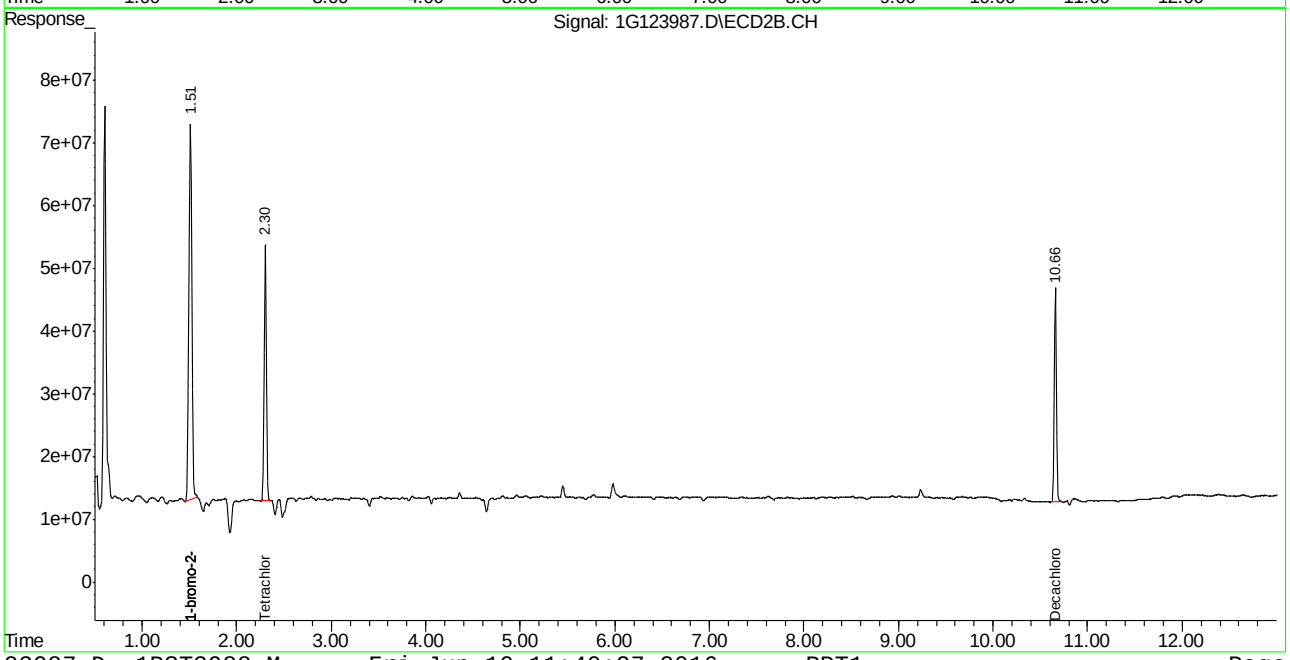
Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\1G4005\1G123987.D\ECD1A.CH Vial: 36
Signal #2 : C:\MSDCHEM\1\DATA\1G4005\1G123987.D\ECD2B.CH
Acq On : 6-8-16 06:34:05 AM Operator: dharas
Sample : jc21347-2 Inst : GC1G
Misc : op94442,g1g4005,16.0,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: Jun 10 11:40 2016 Quant Results File: 1PST3988.RES

Quant Method : C:\MSDCHEM\1\METHODS\1PST3988.M (Chemstation Integrator)
Title : PEST/PCB
Last Update : Mon May 16 13:30:31 2016
Response via : Multiple Level Calibration
DataAcq Meth : 1PST3988.M

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.50um Signal #2 Info : 30m x .32mm x .25um





Manual Integration Approval Summary

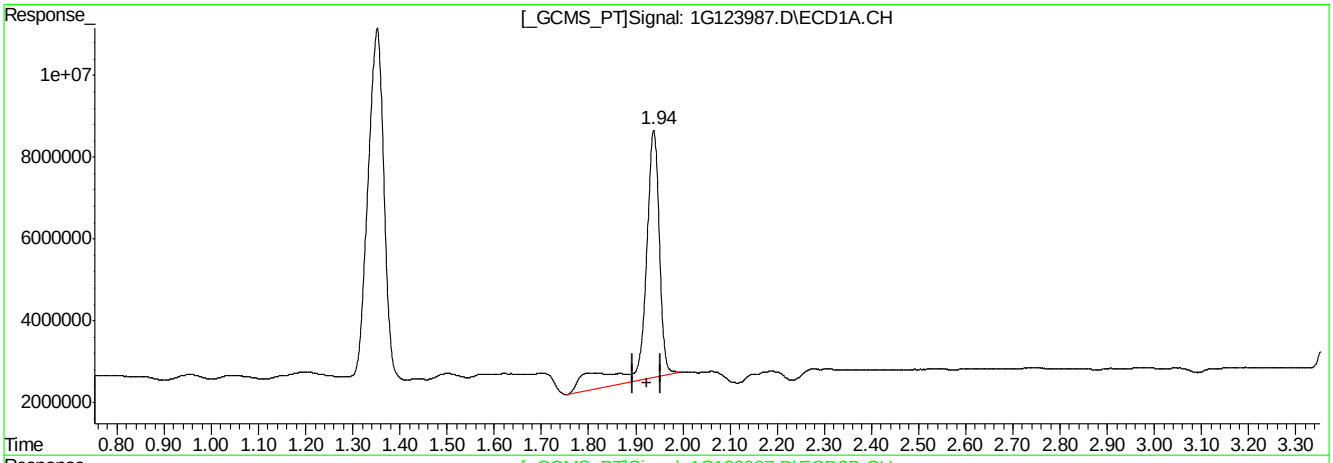
Sample Number:	JC21347-2	**Method:**	SW846 8081B
Lab FileID:	1G123987.D	**Analyst approved:**	06/13/16 14:19 Dhara Saparia
Injection Time:	06/08/16 06:34	**Supervisor approved:**	06/16/16 06:27 Gwendolyn Burns

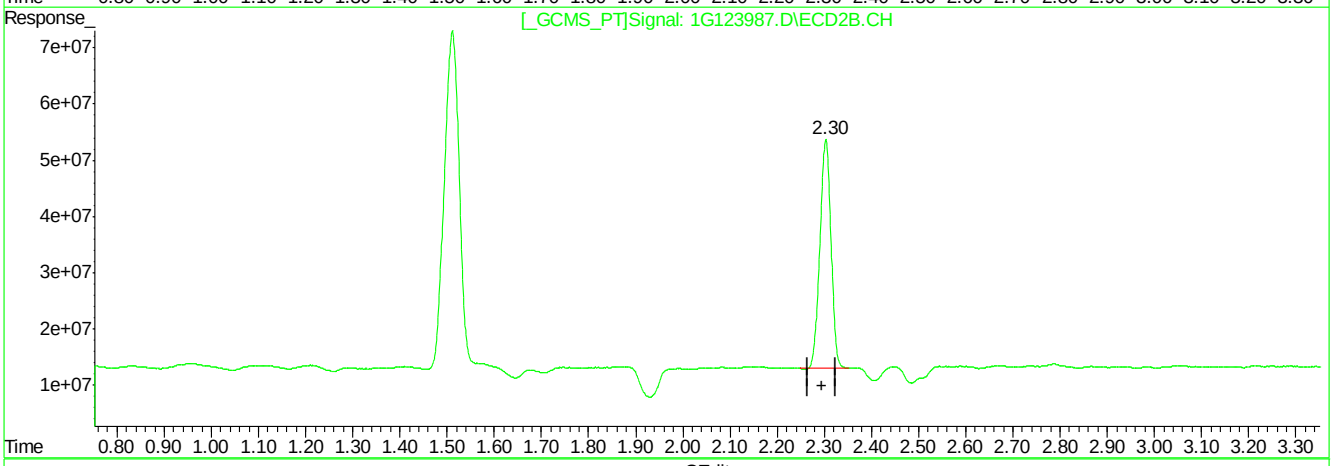
Parameter	CAS	Sig#	R.T. (min.)	Reason
Tetrachloro-m-xylene	877-09-8	1	1.94	Poorly defined baseline

Quantitation Report (Qedit)

```
Signal #1 : C:\MSDCHEM\1\DATA\1G4005\1G123987.D\ECD1A.CH Vial: 36
Signal #2 : C:\MSDCHEM\1\DATA\1G4005\1G123987.D\ECD2B.CH
Acq On    : 6-8-16 06:34:05 AM                      Operator: dharas
Sample    : jc21347-2                               Inst    : GC1G
Misc      : op94442,g1g4005,16.0,,,10,1             Multiplr: 1.00
IntFile Signal #1: autoint1.e     IntFile Signal #2: autoint2.e
Quant Time: Jun 10 11:38 2016  Quant Results File: 1PST3988.RES

Method       : C:\MSDCHEM\1\METHODS\1PST3988.M (Chemstation Integrator)
Title        : PEST/PCB
Last Update  : Mon May 16 13:30:31 2016
Response via : Multiple Level Calibration
```





QEdit

(2) Tetrachloro-m-xylene (SAB)

1.94min 36.918PPB

response 133312480

(2) Tetrachloro-m-xylene #2 (SAB)

2.30min 28.595PPB

response 666815787

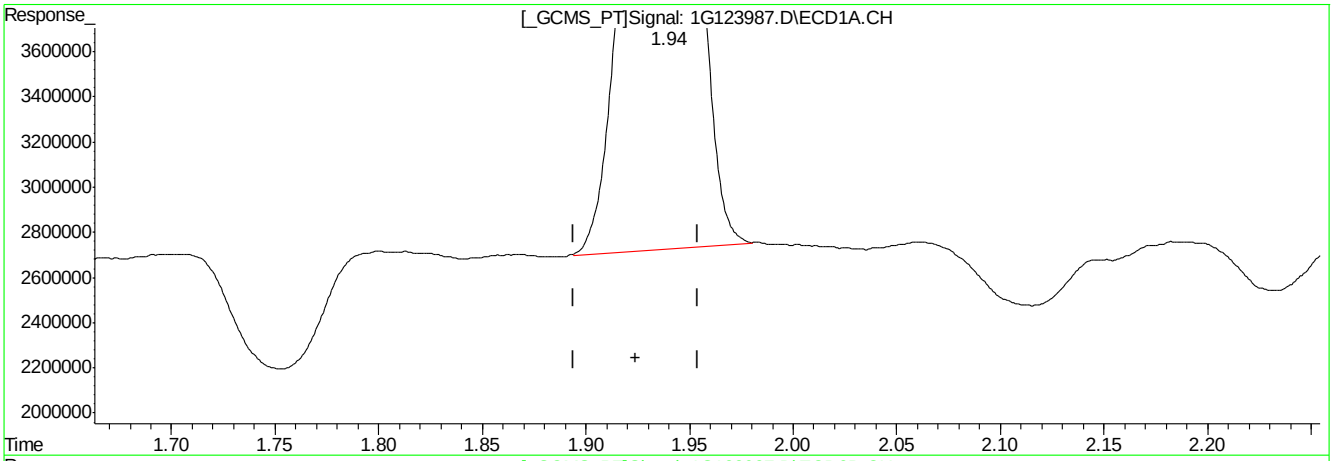
(+) = Expected Retention Time

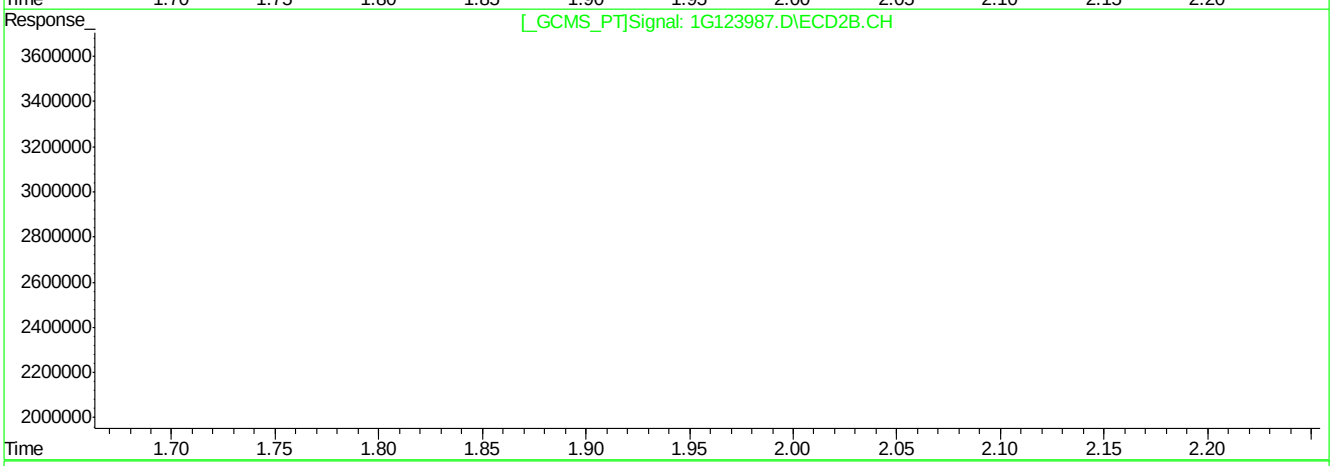
1G123987.D 1PST3988.M Fri Jun 10 11:38:58 2016 RPT1

Quantitation Report (Qedit)

```
Signal #1 : C:\MSDCHEM\1\DATA\1G4005\1G123987.D\ECD1A.CH Vial: 36
Signal #2 : C:\MSDCHEM\1\DATA\1G4005\1G123987.D\ECD2B.CH
Acq On    : 6-8-16 06:34:05 AM                      Operator: dharas
Sample    : jc21347-2                               Inst    : GC1G
Misc      : op94442,g1g4005,16.0,,,10,1             Multiplr: 1.00
IntFile Signal #1: autoint1.e     IntFile Signal #2: autoint2.e
Quant Time: Jun 10 11:38 2016  Quant Results File: 1PST3988.RES

Method       : C:\MSDCHEM\1\METHODS\1PST3988.M (Chemstation Integrator)
Title        : PEST/PCB
Last Update  : Mon May 16 13:30:31 2016
Response via : Multiple Level Calibration
```





QEdit

(2) Tetrachloro-m-xylene (SAB)

1.94min 29.050PPB m

response 104902629

(2) Tetrachloro-m-xylene #2 (SAB)

2.30min 28.595PPB

response 666815787

(+) = Expected Retention Time

1G123987.D 1PST3988.M Fri Jun 10 11:39:16 2016 RPT1

```
                Quantitation Report    (QT Reviewed)

       Signal #1 : C:\MSDCHEM\1\DATA\1G4003\1G123822.D\ECD1A.CH Vial: 7
       Signal #2 : C:\MSDCHEM\1\DATA\1G4003\1G123822.D\ECD2B.CH
       Acq On    : 03 Jun 2016  11:24 am                    Operator: kristend
       Sample    : jc21347-3                                Inst    : GC1G
       Misc      : op94431,g1g4003,910,,,10,1               Multiplr: 1.00
       IntFile Signal #1: autoint1.e     IntFile Signal #2: autoint2.e
       Quant Time: Jun  3 13:59 2016  Quant Results File: 1PST3988.RES

       Quant Method : C:\MSDCHEM\1\METHODS\1PST3988.M (Chemstation Integrator)
       Title        : PEST/PCB
       Last Update  : Thu Jun 02 13:15:36 2016
       Response via : Initial Calibration
       DataAcq Meth : 1PST3988.M

       Volume Inj.     : 1ul/column
       Signal #1 Phase : RTXCLP I          Signal #2 Phase: RTX-CLP II
       Signal #1 Info  : 30mx.32mmx.50um   Signal #2 Info : 30m x .32mm x .25um

        Compound          RT#1   RT#2    Resp#1   Resp#2     PPB       PPB
     ---------------------------------------------------------------------------

     Internal Standards
 1) I   1-bromo-2-nitrob  1.33   1.50   168.6E6 1097.9E6   50.000    50.000
25) I   1-bromo-2-nitrob  1.33   1.50   168.6E6 1097.9E6   50.000    50.000
31) I   1-bromo-2-nitrob  1.33   1.50   168.6E6 1097.9E6   50.000    50.000

     System Monitoring Compounds
 2) SAB Tetrachloro-m-xy  1.92   2.29  89997792  571.4E6   29.539    29.257
  Spiked Amount     40.000 Range  30 - 150  Recovery   =   73.85%    73.14%
24) SA  Decachlorobiphen  9.22  10.66  51772313  198.6E6   12.499    14.470
  Spiked Amount   40.000                  Recovery     =   31.25%    36.18%

     Target Compounds
```

11.1.2

11

```
  ---------------------------------------------------------------------------
  (f)=RT Delta > 1/2 Window                                (m)=manual int.
  1G123822.D  1PST3988.M      Fri Jun 03 13:59:39 2016      RPT1
```

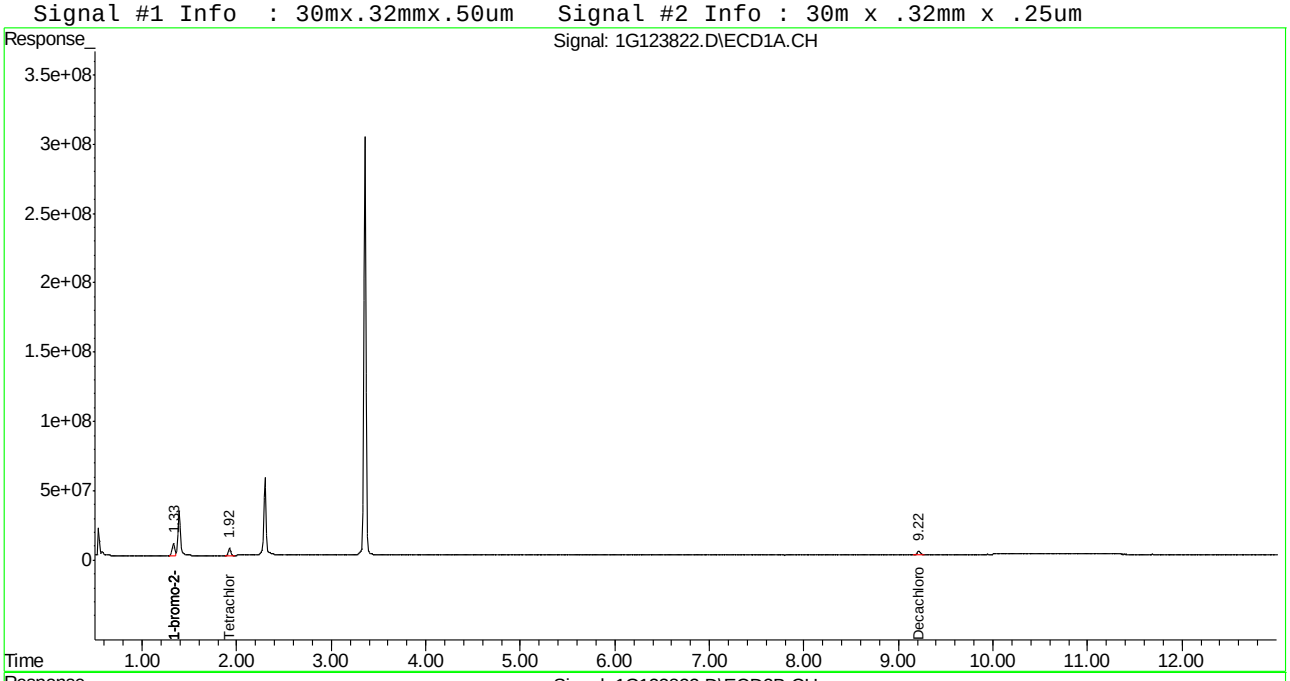

SGS ACCUTEST JC21347

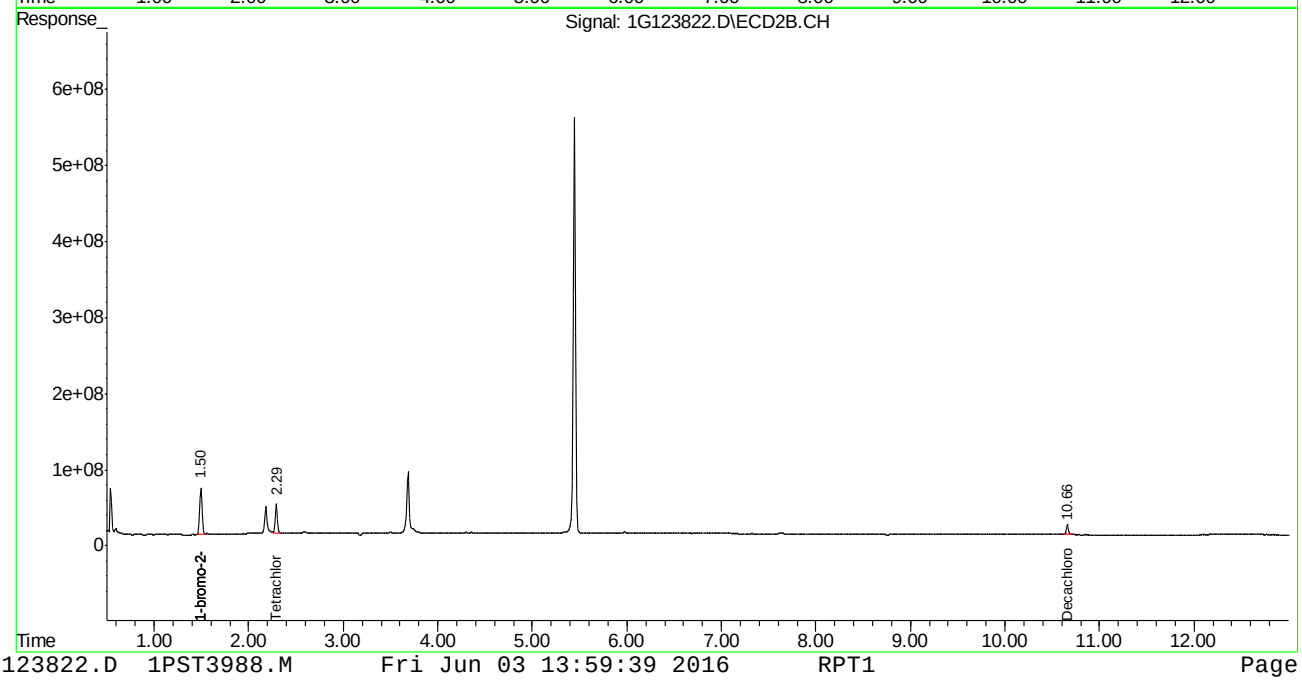
Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\1G4003\1G123822.D\ECD1A.CH Vial: 7
Signal #2 : C:\MSDCHEM\1\DATA\1G4003\1G123822.D\ECD2B.CH
Acq On : 03 Jun 2016 11:24 am Operator: kristend
Sample : jc21347-3 Inst : GC1G
Misc : op94431,g1g4003,910,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: Jun 3 13:59 2016 Quant Results File: 1PST3988.RES

Quant Method : C:\MSDCHEM\1\METHODS\1PST3988.M (Chemstation Integrator)
Title : PEST/PCB
Last Update : Thu Jun 02 13:15:36 2016
Response via : Multiple Level Calibration
DataAcq Meth : 1PST3988.M

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.50um Signal #2 Info : 30m x .32mm x .25um





Quantitation Report (QT Reviewed)

```
Signal #1 : C:\MSDCHEM\1\DATA\1G4003\1G123819.D\ECD1A.CH Vial: 4
Signal #2 : C:\MSDCHEM\1\DATA\1G4003\1G123819.D\ECD2B.CH
Acq On    : 03 Jun 2016  10:32 am                    Operator: kristend
Sample    : op94431-mb1                              Inst    : GC1G
Misc      : op94431,g1g4003,1000,,,10,1              Multiplr: 1.00
IntFile Signal #1: autoint1.e     IntFile Signal #2: autoint2.e
Quant Time: Jun  3 13:56 2016  Quant Results File: 1PST3988.RES

Quant Method : C:\MSDCHEM\1\METHODS\1PST3988.M (Chemstation Integrator)
Title        : PEST/PCB
Last Update  : Thu Jun 02 13:15:36 2016
Response via : Initial Calibration
DataAcq Meth : 1PST3988.M

Volume Inj.     : 1ul/column
Signal #1 Phase : RTXCLP I          Signal #2 Phase: RTX-CLP II
Signal #1 Info  : 30mx.32mmx.50um   Signal #2 Info : 30m x .32mm x .25um
```

Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
Internal Standards						
1) I 1-bromo-2-nitrob	1.33	1.50	144.5E6	975.7E6	50.000	50.000
25) I 1-bromo-2-nitrob	1.33	1.50	144.5E6	975.7E6	50.000	50.000
31) I 1-bromo-2-nitrob	1.33	1.50	144.5E6	975.7E6	50.000	50.000
System Monitoring Compounds						
2) SAB Tetrachloro-m-xy	1.92	2.29	100.0E6	602.5E6	38.311	34.713
Spiked Amount 40.000	Range 30 - 150		Recovery =		95.78%	86.78%
24) SA Decachlorobiphen	9.22	10.66	123.1E6	447.4E6	34.676	36.690
Spiked Amount 40.000			Recovery =		86.69%	91.72%
Target Compounds						

(f)=RT Delta > 1/2 Window (m)=manual int.

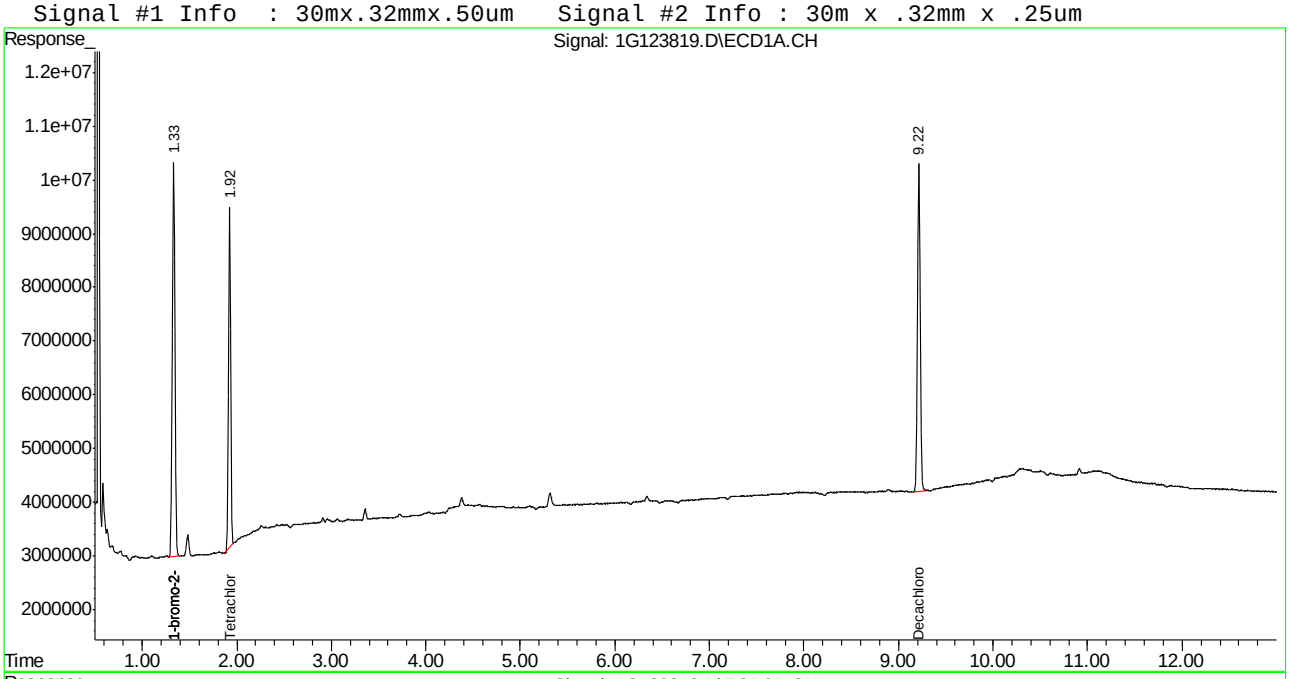
SGS ACCUTEST JC21347

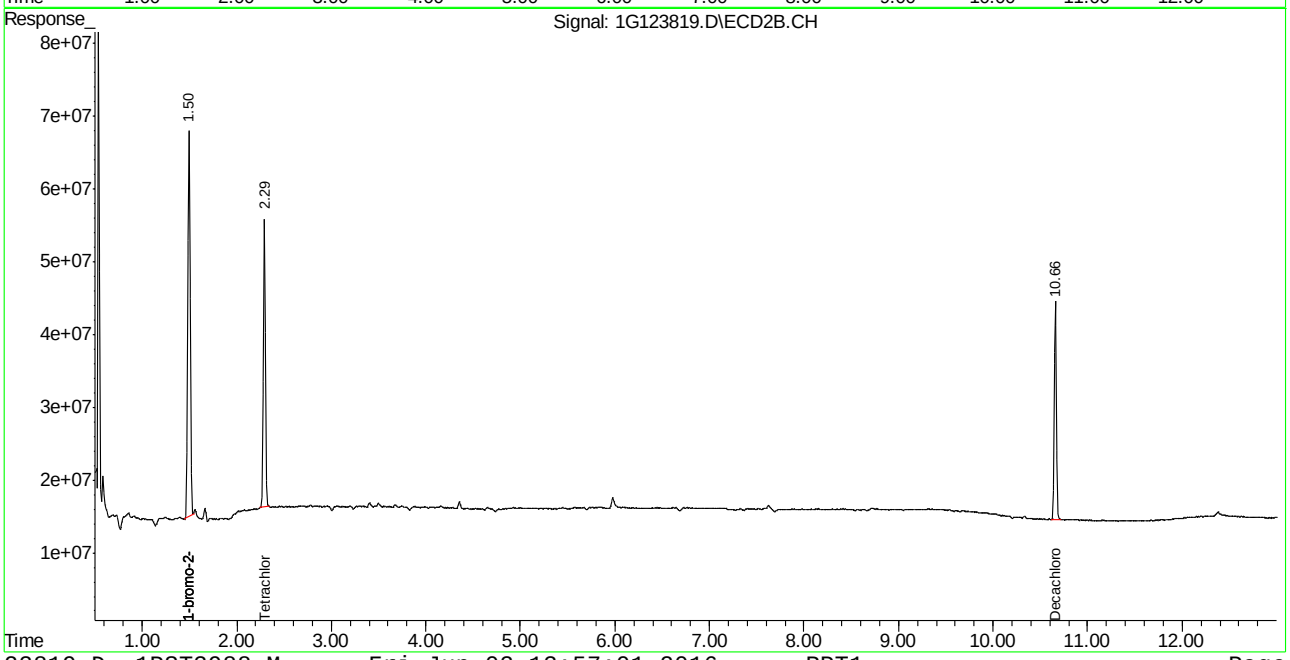
Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\1G4003\1G123819.D\ECD1A.CH Vial: 4
Signal #2 : C:\MSDCHEM\1\DATA\1G4003\1G123819.D\ECD2B.CH
Acq On : 03 Jun 2016 10:32 am Operator: kristend
Sample : op94431-mb1 Inst : GC1G
Misc : op94431,g1g4003,1000,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: Jun 3 13:56 2016 Quant Results File: 1PST3988.RES

Quant Method : C:\MSDCHEM\1\METHODS\1PST3988.M (Chemstation Integrator)
Title : PEST/PCB
Last Update : Thu Jun 02 13:15:36 2016
Response via : Multiple Level Calibration
DataAcq Meth : 1PST3988.M

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.50um Signal #2 Info : 30m x .32mm x .25um





Manual Integrations
APPROVED
(compounds with "m" flag)
Owen McKenna
06/10/16 17:08

Quantitation Report (QT Reviewed)

```
Signal #1 : C:\MSDCHEM\1\DATA\1G4004\1G123905.D\ECD1A.CH Vial: 24
Signal #2 : C:\MSDCHEM\1\DATA\1G4004\1G123905.D\ECD2B.CH
Acq On    : 07 Jun 2016  12:39 am                    Operator: dharas
Sample    : op94442-mb1                              Inst    : GC1G
Misc      : op94442,g1g4004,15.0,,,10,1              Multiplr: 1.00
IntFile Signal #1: autoint1.e     IntFile Signal #2: autoint2.e
Quant Time: Jun  7 15:01 2016  Quant Results File: 1PST3988.RES

Quant Method : C:\MSDCHEM\1\METHODS\1PST3988.M (Chemstation Integrator)
Title        : PEST/PCB
Last Update  : Thu Jun 02 13:15:36 2016
Response via : Initial Calibration
DataAcq Meth : 1PST3988.M

Volume Inj.     : 1ul/column
Signal #1 Phase : RTXCLP I          Signal #2 Phase: RTX-CLP II
Signal #1 Info  : 30mx.32mmx.50um   Signal #2 Info : 30m x .32mm x .25um
```

Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
Internal Standards						
1) I 1-bromo-2-nitrob	1.32	1.49	136.7E6	893.4E6	50.000	50.000
25) I 1-bromo-2-nitrob	1.32	1.49	136.7E6	893.4E6	50.000	50.000
31) I 1-bromo-2-nitrob	1.32	1.49	136.7E6	893.4E6	50.000	50.000
System Monitoring Compounds						
2) SAB Tetrachloro-m-xy	1.92	2.29	83505931	520.3E6	33.809	32.740
Spiked Amount 40.000	Range 30 - 150		Recovery =		84.52%	81.85%
24) SA Decachlorobiphen	9.21	10.66	115.3E6	500.1E6	34.328m	44.792m
Spiked Amount 40.000			Recovery =		85.82%	111.98%
Target Compounds						

(f)=RT Delta > 1/2 Window (m)=manual int.

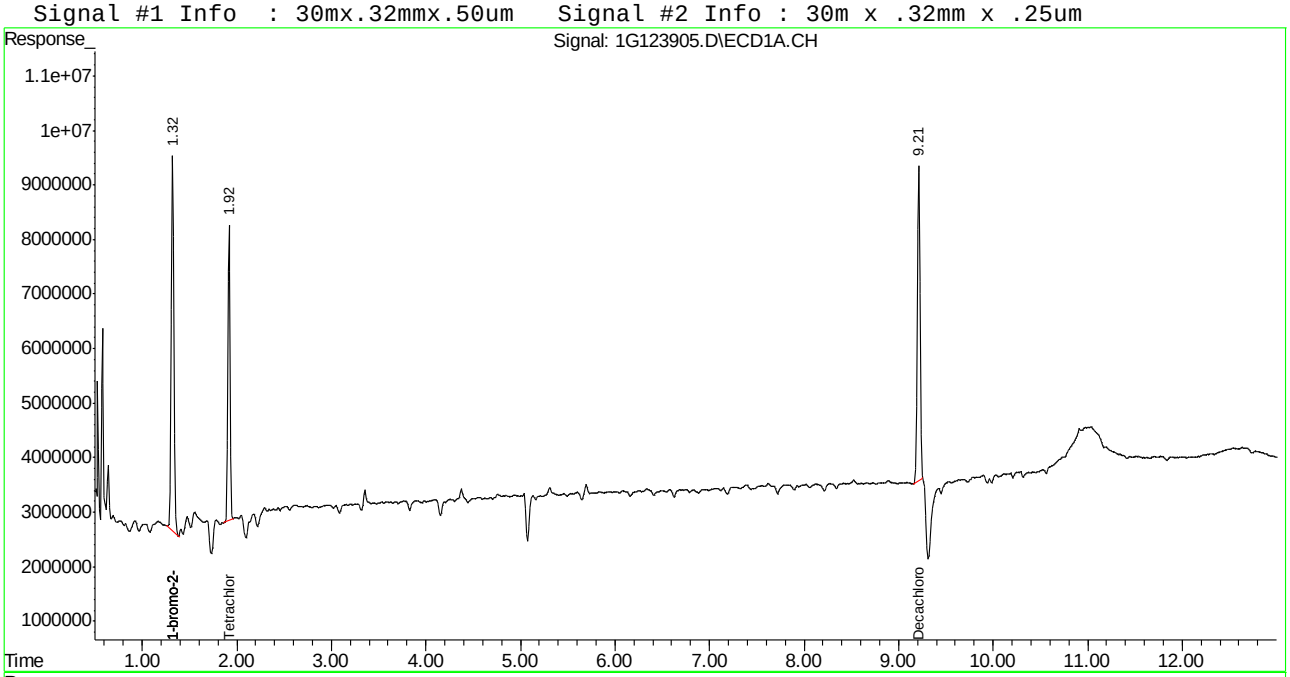
SGS ACCUTEST JC21347

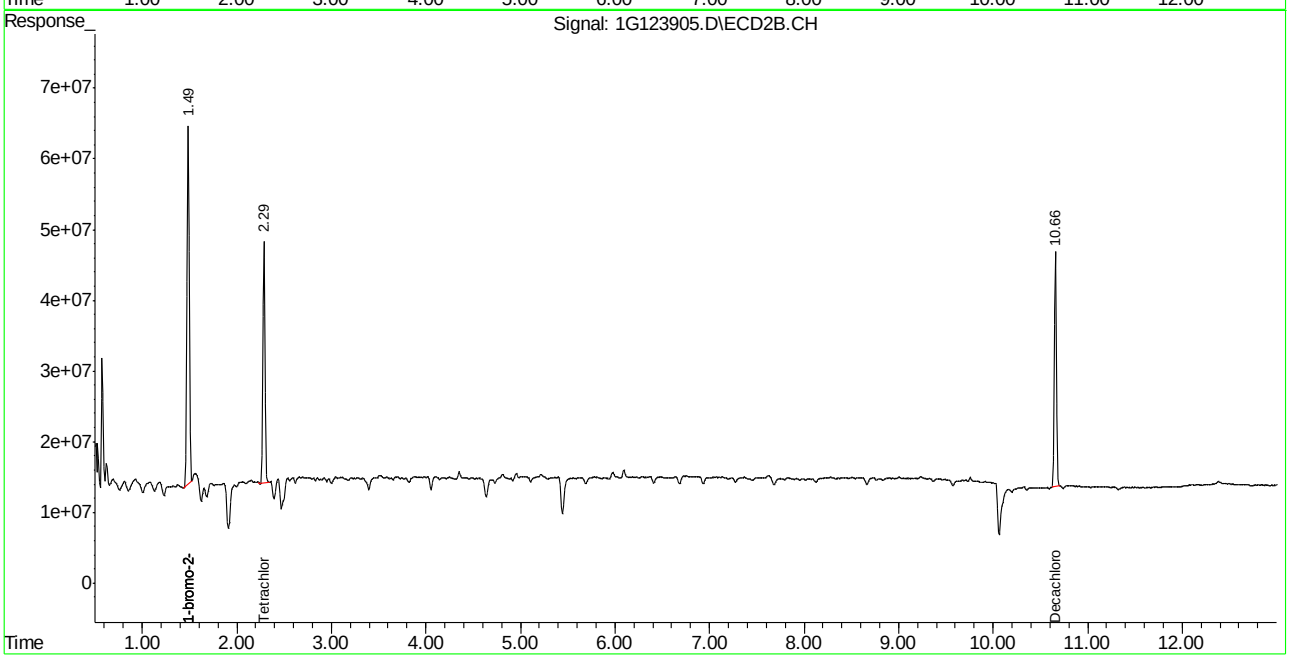
Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\1G4004\1G123905.D\ECD1A.CH Vial: 24
Signal #2 : C:\MSDCHEM\1\DATA\1G4004\1G123905.D\ECD2B.CH
Acq On : 07 Jun 2016 12:39 am Operator: dharas
Sample : op94442-mb1 Inst : GC1G
Misc : op94442,g1g4004,15.0,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: Jun 7 15:01 2016 Quant Results File: 1PST3988.RES

Quant Method : C:\MSDCHEM\1\METHODS\1PST3988.M (Chemstation Integrator)
Title : PEST/PCB
Last Update : Thu Jun 02 13:15:36 2016
Response via : Multiple Level Calibration
DataAcq Meth : 1PST3988.M

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.50um Signal #2 Info : 30m x .32mm x .25um





SGS ACCUTEST JC21347

Manual Integration Approval Summary

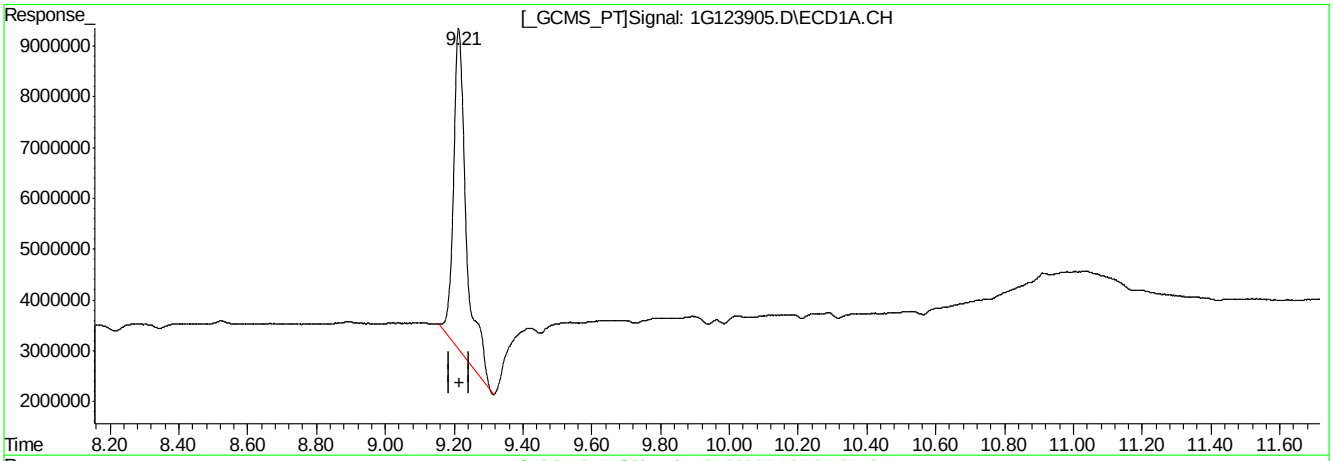
Sample Number:	OP94442-MB1	**Method:**	SW846 8081B
Lab FileID:	1G123905.D	**Analyst approved:**	06/08/16 11:58 Kristen Drake
Injection Time:	06/07/16 00:39	**Supervisor approved:**	06/10/16 17:08 Owen McKenna

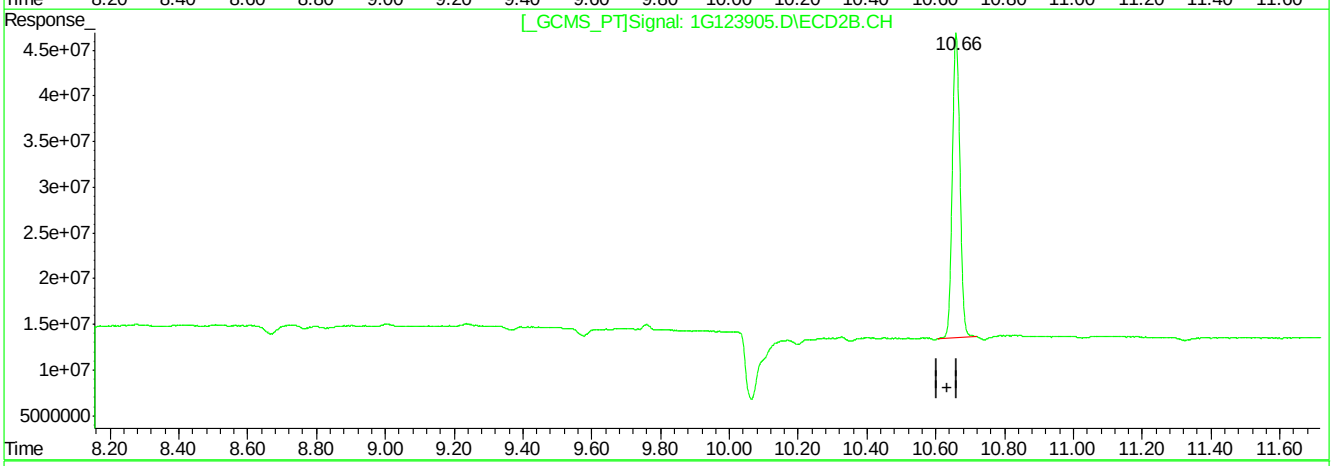
Parameter	CAS	Sig#	R.T. (min.)	Reason
Decachlorobiphenyl	2051-24-3	1	9.21	Poorly defined baseline
Decachlorobiphenyl	2051-24-3	2	10.66	Poorly defined baseline

Quantitation Report (Qedit)

```
Signal #1 : C:\MSDCHEM\1\DATA\1G4004\1G123905.D\ECD1A.CH Vial: 24
Signal #2 : C:\MSDCHEM\1\DATA\1G4004\1G123905.D\ECD2B.CH
Acq On    : 07 Jun 2016  12:39 am                    Operator: dharas
Sample    : op94442-mb1                              Inst    : GC1G
Misc      : op94442,g1g4004,15.0,,,10,1              Multiplr: 1.00
IntFile Signal #1: autoint1.e     IntFile Signal #2: autoint2.e
Quant Time: Jun  7 15:00 2016  Quant Results File: 1PST3988.RES


Method       : C:\MSDCHEM\1\METHODS\1PST3988.M (Chemstation Integrator)
Title        : PEST/PCB
Last Update  : Thu Jun 02 13:15:36 2016
Response via : Multiple Level Calibration
```





QEdit

(24) Decachlorobiphenyl (SA)

9.21min 48.949PPB

response 164368367

(24) Decachlorobiphenyl #2 (SA)

10.66min 45.617PPB

response 509355378

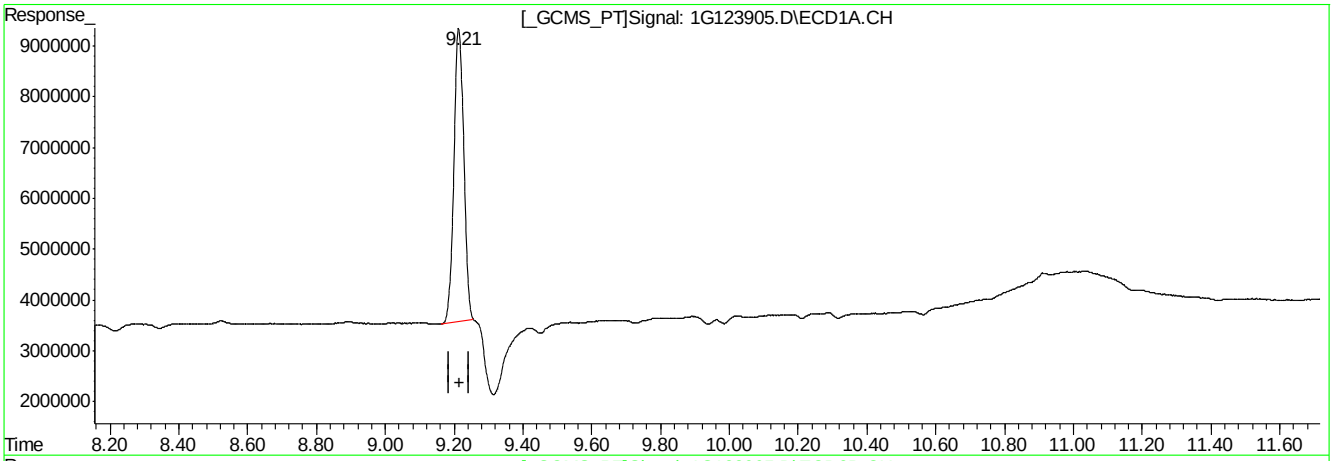
(+) = Expected Retention Time

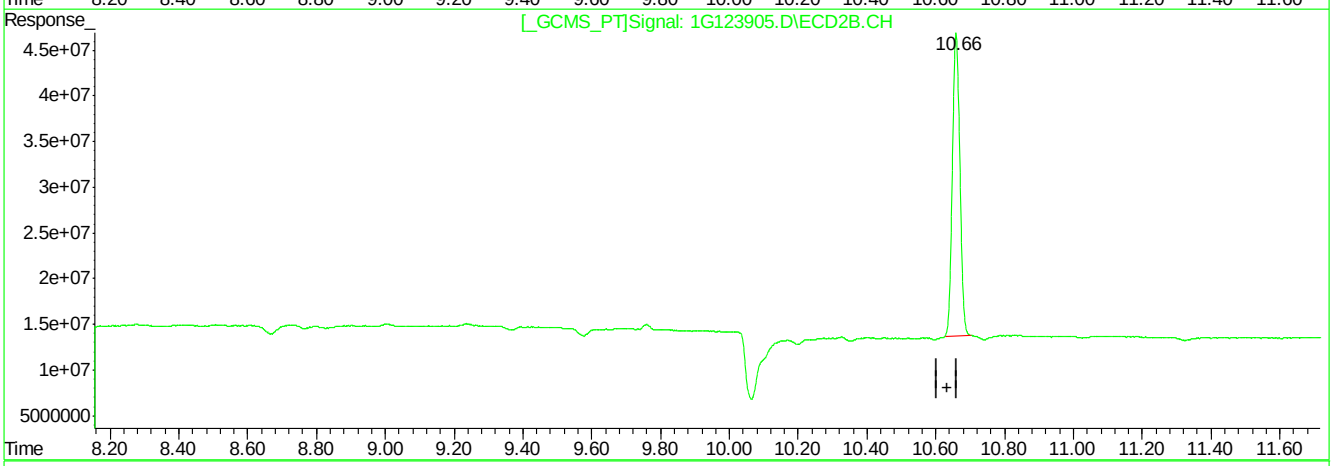
1G123905.D 1PST3988.M Tue Jun 07 15:00:45 2016 RPT1

Quantitation Report (Qedit)

```
Signal #1 : C:\MSDCHEM\1\DATA\1G4004\1G123905.D\ECD1A.CH Vial: 24
Signal #2 : C:\MSDCHEM\1\DATA\1G4004\1G123905.D\ECD2B.CH
Acq On    : 07 Jun 2016  12:39 am                    Operator: dharas
Sample    : op94442-mb1                              Inst    : GC1G
Misc      : op94442,g1g4004,15.0,,,10,1              Multiplr: 1.00
IntFile Signal #1: autoint1.e     IntFile Signal #2: autoint2.e
Quant Time: Jun  7 15:00 2016  Quant Results File: 1PST3988.RES


Method       : C:\MSDCHEM\1\METHODS\1PST3988.M (Chemstation Integrator)
Title        : PEST/PCB
Last Update  : Thu Jun 02 13:15:36 2016
Response via : Multiple Level Calibration
```





QEdit

(24) Decachlorobiphenyl (SA)

9.21min 34.328PPB m

response 115272544

(24) Decachlorobiphenyl #2 (SA)

10.66min 44.792PPB m

response 500148646

(+) = Expected Retention Time

1G123905.D 1PST3988.M Tue Jun 07 15:01:08 2016 RPT1

Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\1G4003\1G123820.D\ECD1A.CH Vial: 5
Signal #2 : C:\MSDCHEM\1\DATA\1G4003\1G123820.D\ECD2B.CH
Acq On : 03 Jun 2016 10:49 am Operator: kristend
Sample : op94431-bs1 Inst : GC1G
Misc : op94431,g1g4003,1000,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: Jun 3 13:57 2016 Quant Results File: 1PST3988.RES

Quant Method : C:\MSDCHEM\1\METHODS\1PST3988.M (Chemstation Integrator)
Title : PEST/PCB
Last Update : Thu Jun 02 13:15:36 2016
Response via : Initial Calibration
DataAcq Meth : 1PST3988.M

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.50um Signal #2 Info : 30m x .32mm x .25um

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	Internal Standards						
1) I	1-bromo-2-nitrob	1.33	1.50	168.3E6	1082.0E6	50.000	50.000
25) I	1-bromo-2-nitrob	1.33	1.50	168.3E6	1082.0E6	50.000	50.000
31) I	1-bromo-2-nitrob	1.33	1.50	168.3E6	1082.0E6	50.000	50.000
	System Monitoring Compounds						
2) SAB	Tetrachloro-m-xy	1.93	2.29	105.1E6	652.8E6	34.547	33.914
Spiked Amount	40.000	Range	30 - 150	Recovery	=	86.37%	84.78%
24) SA	Decachlorobiphen	9.21	10.66	139.8E6	500.4E6	33.785	36.999
Spiked Amount	40.000			Recovery	=	84.46%	92.50%
	Target Compounds						
3) A	alpha-BHC	2.41	2.93	99826128	670.4E6	22.939	23.261
4) MA	gamma-BHC	2.71	3.34	96349772	625.6E6	23.693	23.980
5) MA	Heptachlor	3.19	3.89	97412955	578.0E6	23.533	23.740
6) B	beta-BHC	2.78	3.42	44952640	285.5E6	23.099	23.871
7) B	delta-BHC	2.97	3.80	94044092	602.7E6	23.587	23.110
8) MB	Aldrin	3.52	4.33	88811638	557.5E6	23.542	25.022
9) B	Heptachlor Epoxi	4.23	5.12	94767792	555.8E6	25.489	27.883
10) B	gamma-Chlordane	4.39	5.40	95406806	542.8E6	24.932	26.658
11) B	alpha-Chlordane	4.56	5.62	94075693	536.7E6	24.787	26.620
12) A	Endosulfan I	4.74	5.71	90407509	513.9E6	24.760	27.637
13) B	4,4'-DDE	4.67	5.89	93035839	532.0E6	24.316	26.600
14) MA	Dieldrin	5.06	6.13	98736606	580.6E6	25.970	27.808
15) MA	Endrin	5.38	6.63	97830416	557.4E6	28.386	30.332
16) A	4,4'-DDD	5.50	6.82	75415544	458.2E6	25.095	27.821
17) B	Endosulfan II	5.70	6.97	91118112	502.2E6	25.229	26.700
18) MA	4,4'-DDT	5.91	7.34	79506312	429.4E6	24.287	26.568
19) B	Endrin Aldehyde	6.33	7.54	68993296	375.0E6	24.183	25.983
20) B	Endosulfan Sulfa	7.02	8.00	80571725	434.2E6	23.236	26.384
21) A	Methoxychlor	6.69	8.58	47699762	240.0E6	24.604	27.656
23) B	Endrin Ketone	7.44	8.94	87532382	458.7E6	22.309	24.862

(f)=RT Delta > 1/2 Window (m)=manual int.

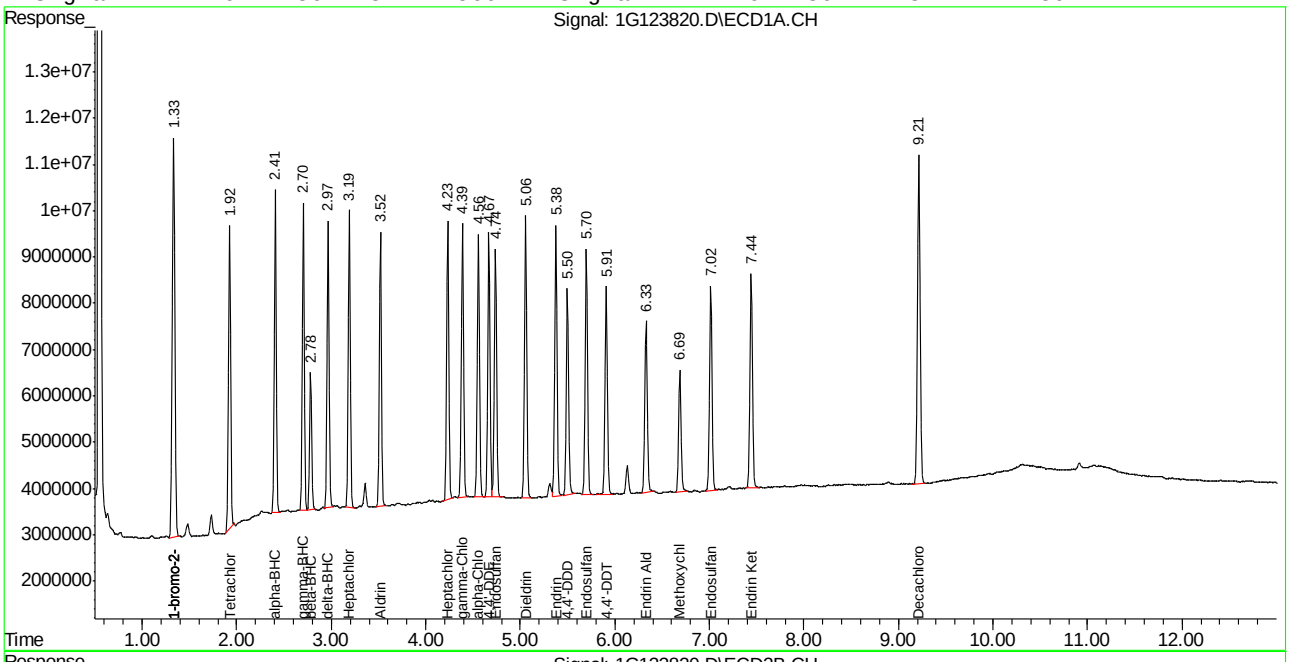
SGS ACCUTEST JC21347

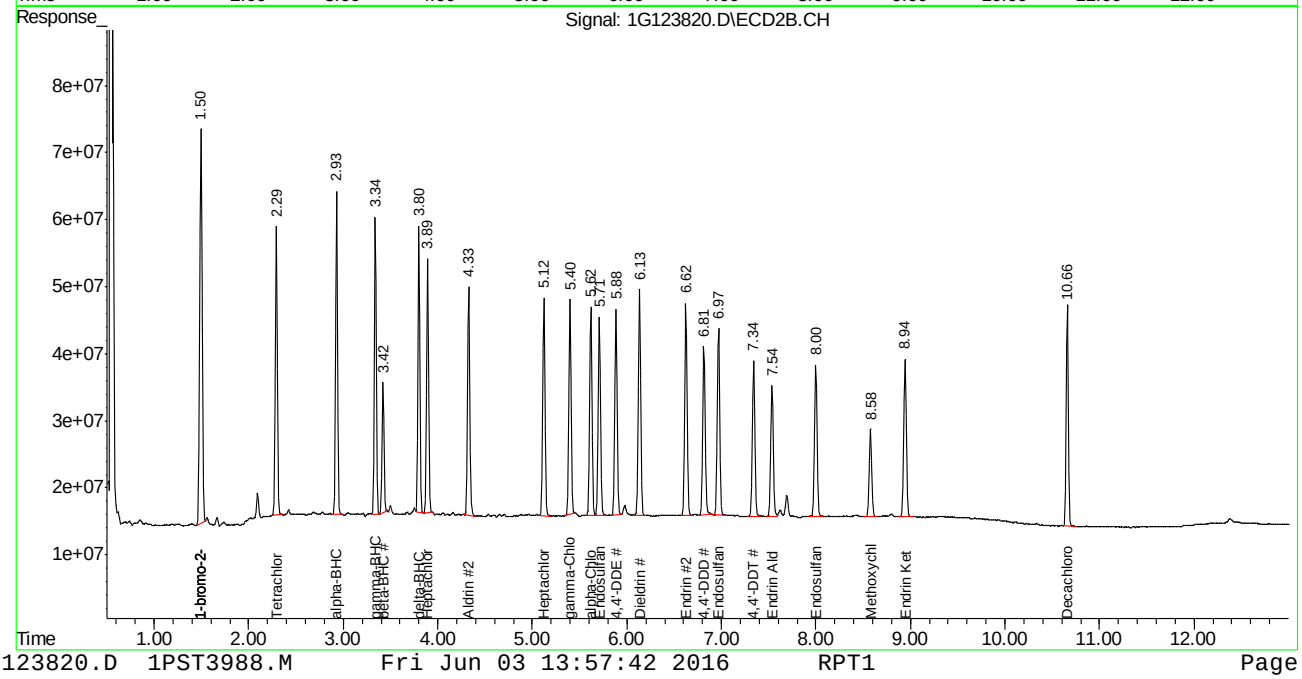
Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\1G4003\1G123820.D\ECD1A.CH Vial: 5
Signal #2 : C:\MSDCHEM\1\DATA\1G4003\1G123820.D\ECD2B.CH
Acq On : 03 Jun 2016 10:49 am Operator: kristend
Sample : op94431-bs1 Inst : GC1G
Misc : op94431,g1g4003,1000,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: Jun 3 13:57 2016 Quant Results File: 1PST3988.RES

Quant Method : C:\MSDCHEM\1\METHODS\1PST3988.M (Chemstation Integrator)
Title : PEST/PCB
Last Update : Thu Jun 02 13:15:36 2016
Response via : Multiple Level Calibration
DataAcq Meth : 1PST3988.M

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.50um Signal #2 Info : 30m x .32mm x .25um





SGS ACCUTEST JC21347

Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\1G4004\1G123906.D\ECD1A.CH Vial: 25
Signal #2 : C:\MSDCHEM\1\DATA\1G4004\1G123906.D\ECD2B.CH
Acq On : 07 Jun 2016 12:57 am Operator: dharas
Sample : op94442-bs1 Inst : GC1G
Misc : op94442,g1g4004,15.0,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: Jun 7 15:05 2016 Quant Results File: 1PST3988.RES

Quant Method : C:\MSDCHEM\1\METHODS\1PST3988.M (Chemstation Integrator)
Title : PEST/PCB
Last Update : Thu Jun 02 13:15:36 2016
Response via : Initial Calibration
DataAcq Meth : 1PST3988.M

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.50um Signal #2 Info : 30m x .32mm x .25um

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	Internal Standards						
1) I	1-bromo-2-nitrob	1.32	1.49	150.8E6	990.3E6	50.000	50.000
25) I	1-bromo-2-nitrob	1.32	1.49	150.8E6	990.3E6	50.000	50.000
31) I	1-bromo-2-nitrob	1.32	1.49	150.8E6	990.3E6	50.000	50.000
	System Monitoring Compounds						
2) SAB	Tetrachloro-m-xy	1.92	2.29	89903590	630.3E6	32.978	35.780
Spiked Amount	40.000	Range	30 - 150	Recovery	=	82.45%	89.45%
24) SA	Decachlorobiphen	9.22	10.66	134.3E6	551.7E6	36.235	44.571
Spiked Amount	40.000			Recovery	=	90.59%	111.43%
	Target Compounds						
3) A	alpha-BHC	2.40	2.93	81397347	610.7E6	20.876	23.152
4) MA	gamma-BHC	2.70	3.34	78874506	590.0E6	21.647	24.712
5) MA	Heptachlor	3.19	3.89	82918152	555.5E6	22.357	24.929
6) B	beta-BHC	2.78	3.42	37002704	260.7E6	21.221	23.817
7) B	delta-BHC	2.96	3.80	74931610	542.2E6	20.975	22.718
8) MB	Aldrin	3.52	4.32	78478266	529.6E6	23.218	25.972
9) B	Heptachlor Epoxi	4.23	5.12	79870817	478.1E6	23.976	26.210
10) B	gamma-Chlordane	4.39	5.40	80240557	511.3E6	23.404	27.439
11) B	alpha-Chlordane	4.55	5.62	78594896	494.2E6	23.113	26.784
12) A	Endosulfan I	4.74	5.71	74326268	462.9E6	22.720	27.198
13) B	4,4'-DDE	4.67	5.88	77314600	496.6E6	22.553	27.133
14) MA	Dieldrin	5.05	6.13	80038803	527.1E6	23.496	27.583
15) MA	Endrin	5.37	6.62	78480129	504.8E6	25.416	30.019
16) A	4,4'-DDD	5.50	6.82	59132719	491.1E6	21.961	32.584
17) B	Endosulfan II	5.70	6.97	75122240	457.7E6	23.215	26.591
18) MA	4,4'-DDT	5.91	7.34	65988766	419.1E6	22.498	28.335
19) B	Endrin Aldehyde	6.33	7.54	55749392	358.1E6	21.810	27.109
20) B	Endosulfan Sulfa	7.01	8.00	64000472	388.3E6	20.600	25.778
21) A	Methoxychlor	6.69	8.58	40406240	233.4E6	23.262	29.389
23) B	Endrin Ketone	7.44	8.94	71021405	430.3E6	20.203	25.487

(f)=RT Delta > 1/2 Window (m)=manual int.

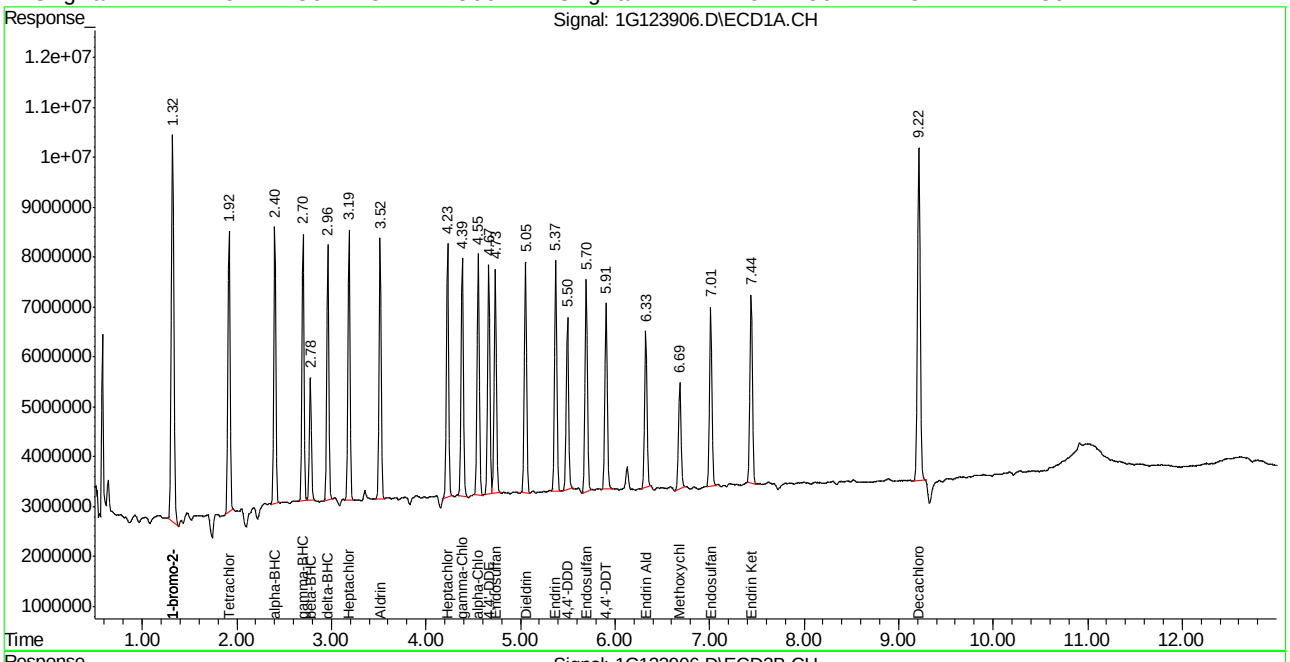
SGS ACCUTEST JC21347

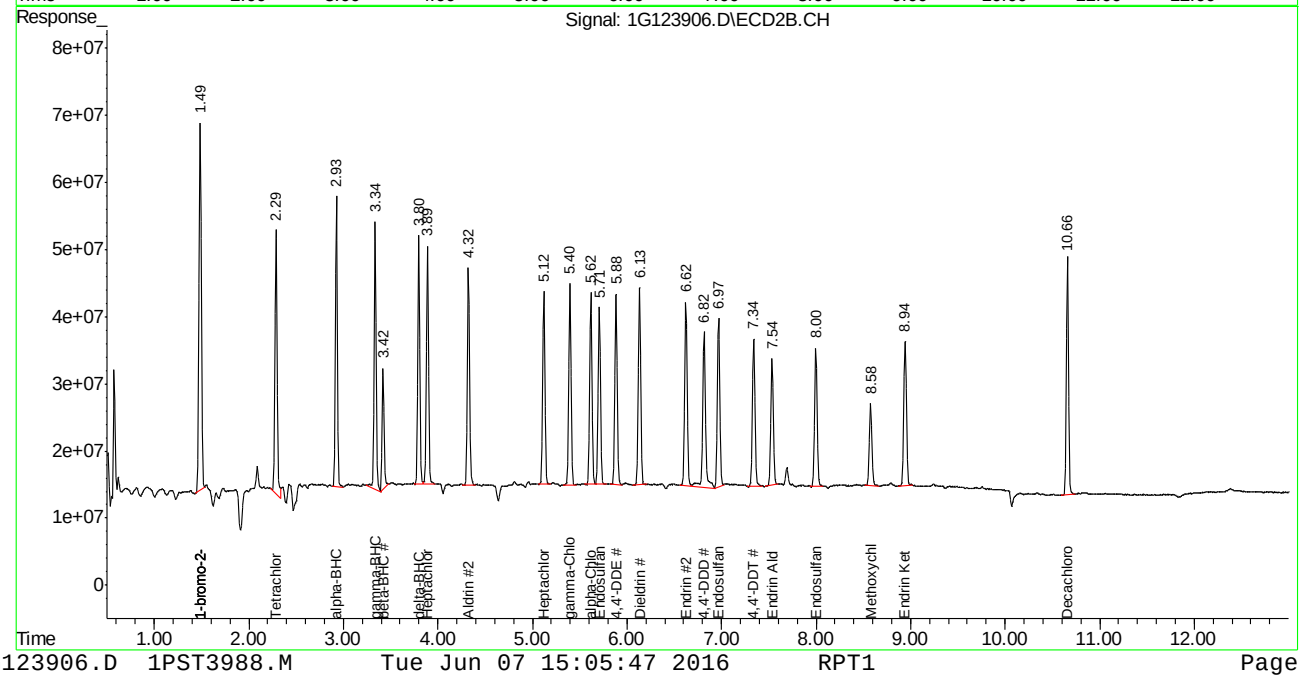
Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\1G4004\1G123906.D\ECD1A.CH Vial: 25
Signal #2 : C:\MSDCHEM\1\DATA\1G4004\1G123906.D\ECD2B.CH
Acq On : 07 Jun 2016 12:57 am Operator: dharas
Sample : op94442-bs1 Inst : GC1G
Misc : op94442,g1g4004,15.0,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: Jun 7 15:05 2016 Quant Results File: 1PST3988.RES

Quant Method : C:\MSDCHEM\1\METHODS\1PST3988.M (Chemstation Integrator)
Title : PEST/PCB
Last Update : Thu Jun 02 13:15:36 2016
Response via : Multiple Level Calibration
DataAcq Meth : 1PST3988.M

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.50um Signal #2 Info : 30m x .32mm x .25um





Manual Integrations APPROVED (compounds with "m" flag)
Gwendolyn Burns 06/06/16 12:07

Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\1G4003\1G123827.D\ECD1A.CH Vial: 12
Signal #2 : C:\MSDCHEM\1\DATA\1G4003\1G123827.D\ECD2B.CH
Acq On : 03 Jun 2016 12:52 pm Operator: kristend
Sample : op94431-ms Inst : GC1G
Misc : op94431,g1g4003,455,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: Jun 3 17:12 2016 Quant Results File: 1PST3988.RES

Quant Method : C:\MSDCHEM\1\METHODS\1PST3988.M (Chemstation Integrator)
Title : PEST/PCB
Last Update : Thu Jun 02 13:15:36 2016
Response via : Initial Calibration
DataAcq Meth : 1PST3988.M

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.50um Signal #2 Info : 30m x .32mm x .25um

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	Internal Standards						
1) I	1-bromo-2-nitrob	1.33	1.50	168.2E6	1123.5E6	50.000	50.000
25) I	1-bromo-2-nitrob	1.33	1.50	168.2E6	1123.5E6	50.000	50.000
31) I	1-bromo-2-nitrob	1.33	1.50	168.2E6	1123.5E6	50.000	50.000
	System Monitoring Compounds						
2) SAB	Tetrachloro-m-xy	1.93	2.29	108.9E6	666.9E6	35.842	33.371
Spiked Amount	40.000	Range	30 - 150	Recovery	=	89.61%	83.43%
24) SA	Decachlorobiphen	9.22	10.66	55844229	213.7E6	13.515	15.217
Spiked Amount	40.000			Recovery	=	33.79%	38.04%
	Target Compounds						
3) A	alpha-BHC	2.41	2.93	133.0E6	802.0E6	30.593	26.802
4) MA	gamma-BHC	2.70	3.34	116.2E6	754.2E6	28.603	27.846m
5) MA	Heptachlor	3.19	3.89	86693665	518.1E6	20.967	20.495
6) B	beta-BHC	2.78	3.42	54251302	359.6E6	27.908	28.958
7) B	delta-BHC	2.97	3.80	113.6E6	752.5E6	28.526	27.790
8) MB	Aldrin	3.52	4.33	62542840	434.8E6	16.597	18.798
9) B	Heptachlor Epoxi	4.23	5.12	104.2E6	613.2E6	28.059	29.631
10) B	gamma-Chlordane	4.39	5.40	76003832	487.7E6	19.884	23.072
11) B	alpha-Chlordane	4.56	5.62	78105392	453.5E6	20.602	21.664
12) A	Endosulfan I	4.74	5.71	97707156	560.2E6	26.789	29.015
13) B	4,4'-DDE	4.67	5.89	48783756	297.7E6	12.764	14.339
14) MA	Dieldrin	5.06	6.13	101.7E6	604.4E6	26.789	27.880
15) MA	Endrin	5.38	6.63	102.7E6	589.2E6	29.834	30.883
16) A	4,4'-DDD	5.50	6.82	56175048	361.1E6	18.713	21.118
17) B	Endosulfan II	5.70	6.97	102.0E6	570.7E6	28.260	29.224
18) MA	4,4'-DDT	5.91	7.34	36378098	211.3E6	11.125	12.589
19) B	Endrin Aldehyde	6.33	7.54	86349618	474.8E6	30.300	31.688
20) B	Endosulfan Sulfa	7.01	8.00	91332547	497.1E6	26.369	29.092
21) A	Methoxychlor	6.69	8.58	31516868	166.3E6	16.275	18.450
23) B	Endrin Ketone	7.44	8.94	110.5E6	575.0E6	28.184	30.016m

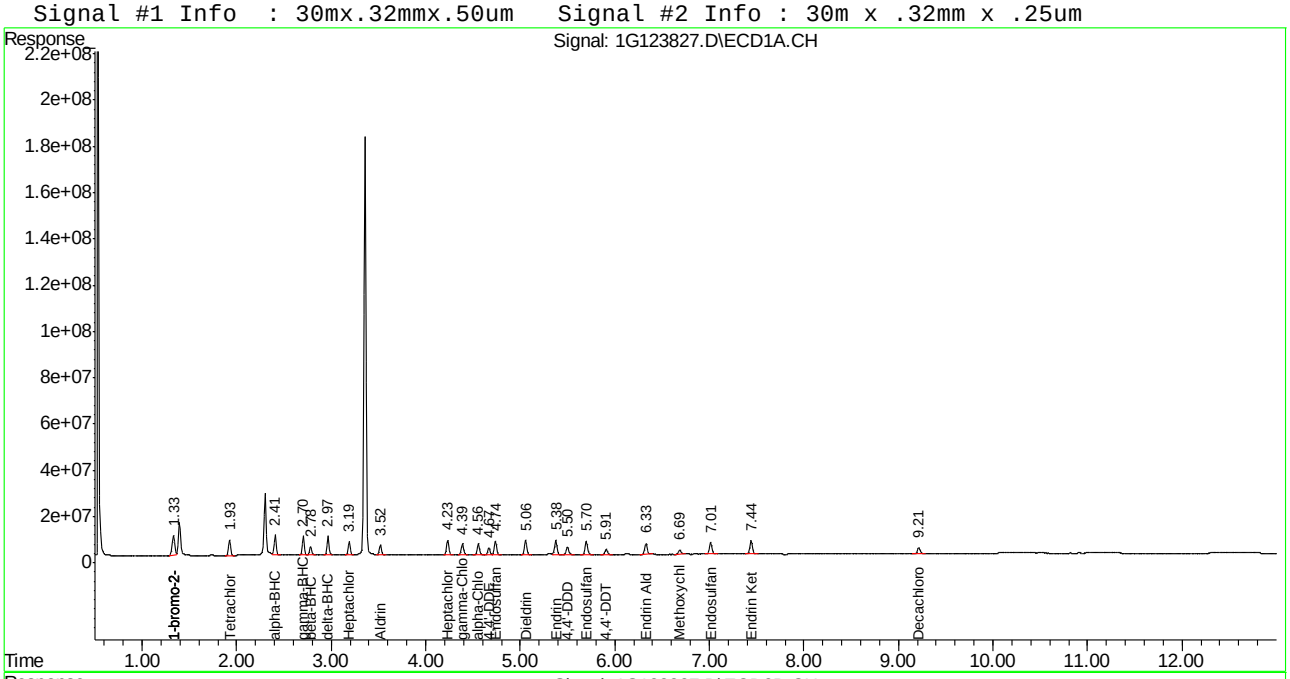
(f)=RT Delta > 1/2 Window (m)=manual int.

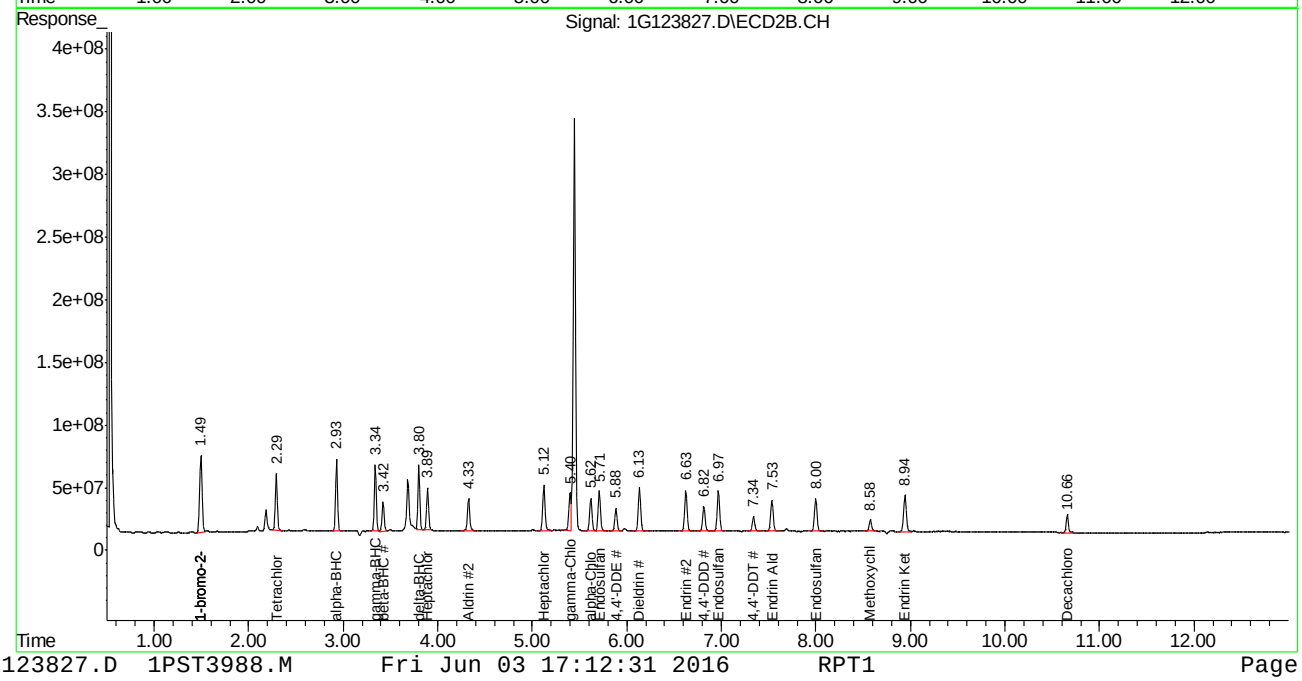
Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\1G4003\1G123827.D\ECD1A.CH Vial: 12
Signal #2 : C:\MSDCHEM\1\DATA\1G4003\1G123827.D\ECD2B.CH
Acq On : 03 Jun 2016 12:52 pm Operator: kristend
Sample : op94431-ms Inst : GC1G
Misc : op94431,g1g4003,455,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: Jun 3 17:12 2016 Quant Results File: 1PST3988.RES

Quant Method : C:\MSDCHEM\1\METHODS\1PST3988.M (Chemstation Integrator)
Title : PEST/PCB
Last Update : Thu Jun 02 13:15:36 2016
Response via : Multiple Level Calibration
DataAcq Meth : 1PST3988.M

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.50um Signal #2 Info : 30m x .32mm x .25um





SGS ACCUTEST JC21347

Manual Integration Approval Summary

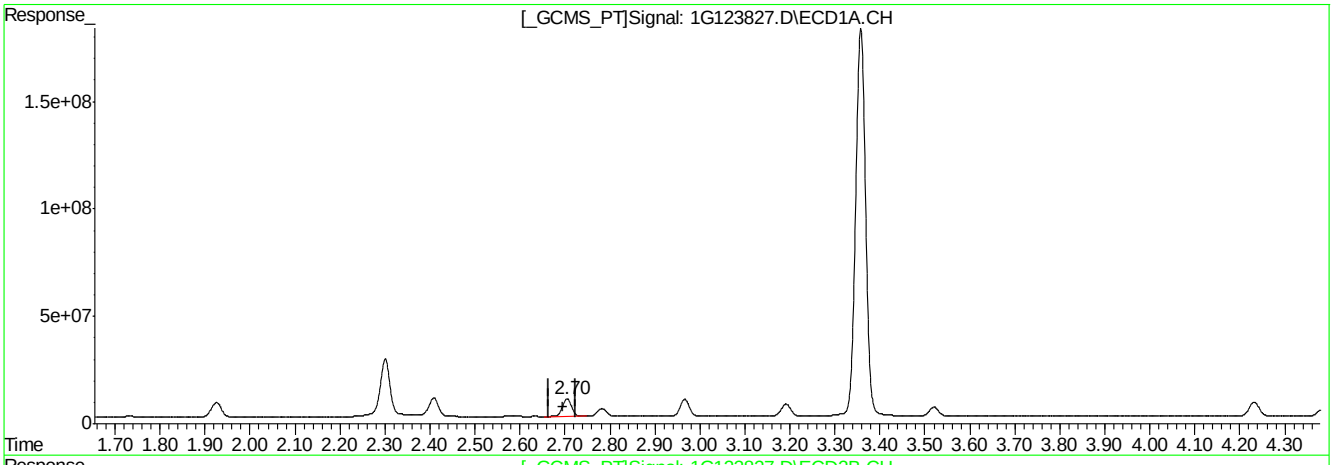
Sample Number:	OP94431-MS	**Method:**	SW846 8081B
Lab FileID:	1G123827.D	**Analyst approved:**	06/03/16 18:22 Dhara Saparia
Injection Time:	06/03/16 12:52	**Supervisor approved:**	06/06/16 12:07 Gwendolyn Burns

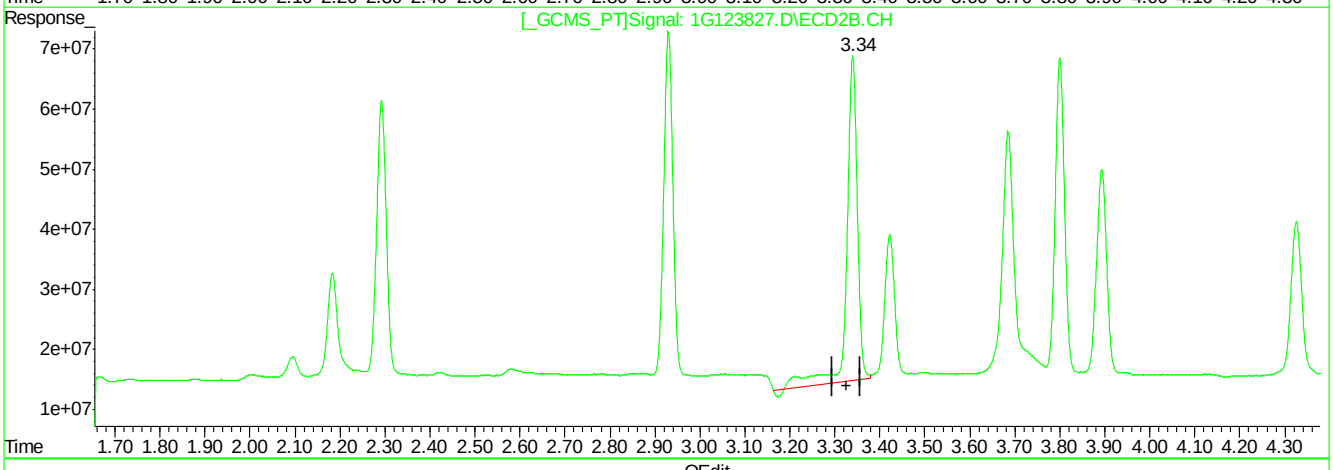
Parameter	CAS	Sig#	R.T. (min.)	Reason
gamma-BHC (Lindane)	58-89-9	2	3.34	Poor instrument integration
Endrin ketone	53494-70-5	2	8.94	Poor instrument integration

Quantitation Report (Qedit)

```
Signal #1 : C:\MSDCHEM\1\DATA\1G4003\1G123827.D\ECD1A.CH Vial: 12
Signal #2 : C:\MSDCHEM\1\DATA\1G4003\1G123827.D\ECD2B.CH
Acq On    : 03 Jun 2016  12:52 pm                    Operator: kristend
Sample    : op94431-ms                               Inst    : GC1G
Misc      : op94431,g1g4003,455,,,10,1               Multiplr: 1.00
IntFile Signal #1: autoint1.e     IntFile Signal #2: autoint2.e
Quant Time: Jun  3 17:11 2016  Quant Results File: 1PST3988.RES

Method       : C:\MSDCHEM\1\METHODS\1PST3988.M (Chemstation Integrator)
Title        : PEST/PCB
Last Update  : Thu Jun 02 13:15:36 2016
Response via : Multiple Level Calibration
```





QEdit

(4) gamma-BHC (MA)

2.70min 28.603PPB

response 116188402

(4) gamma-BHC #2 (MA)

3.34min 32.578PPB

response 882391987

(+) = Expected Retention Time

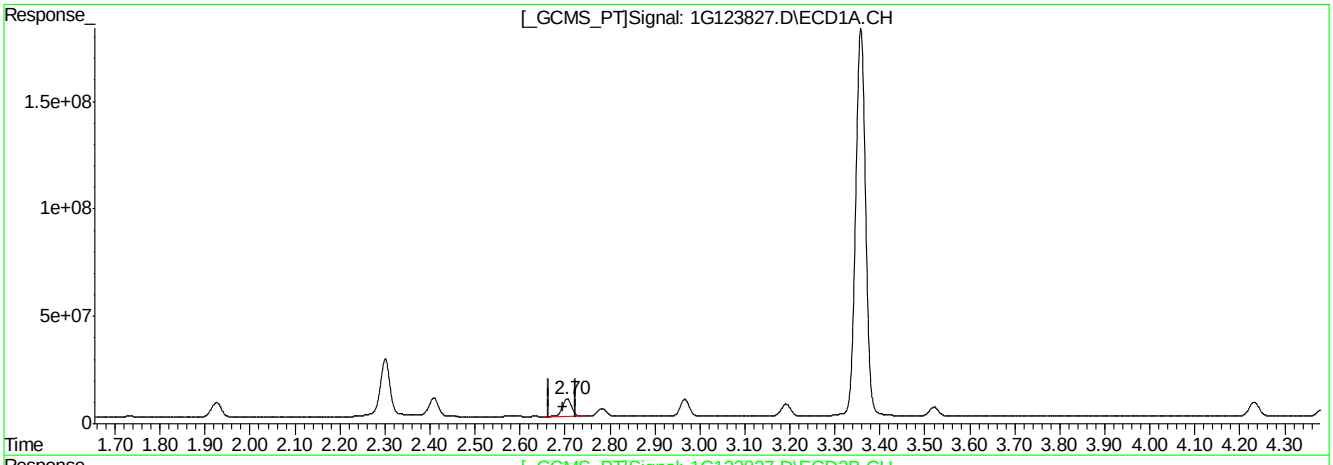
1G123827.D 1PST3988.M Fri Jun 03 17:11:40 2016 RPT1

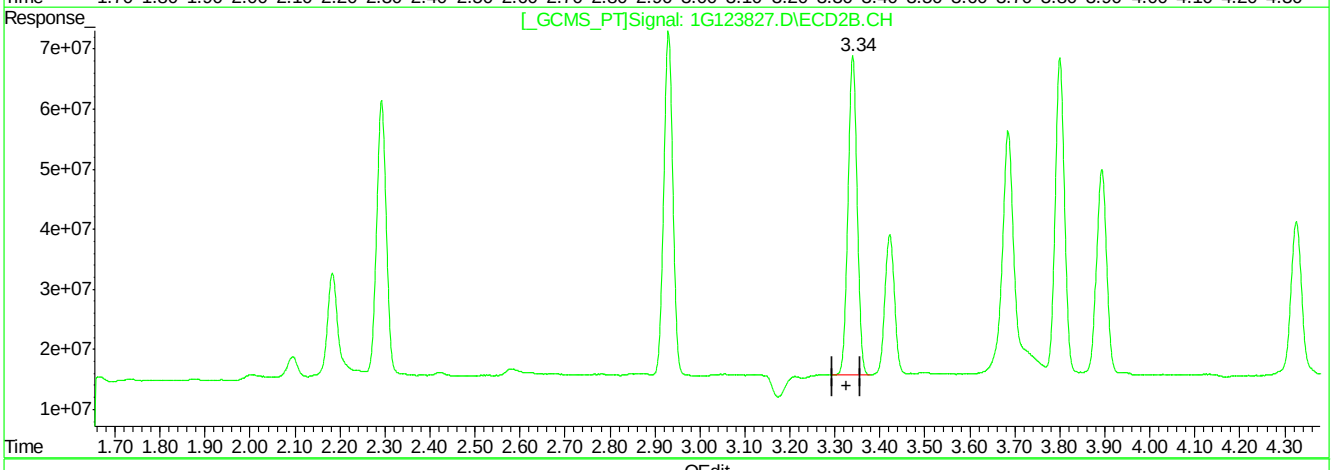
SGS ACCUTEST JC21347

Quantitation Report (Qedit)

```
Signal #1 : C:\MSDCHEM\1\DATA\1G4003\1G123827.D\ECD1A.CH Vial: 12
Signal #2 : C:\MSDCHEM\1\DATA\1G4003\1G123827.D\ECD2B.CH
Acq On    : 03 Jun 2016  12:52 pm                    Operator: kristend
Sample    : op94431-ms                               Inst    : GC1G
Misc      : op94431,g1g4003,455,,,10,1               Multiplr: 1.00
IntFile Signal #1: autoint1.e     IntFile Signal #2: autoint2.e
Quant Time: Jun  3 17:11 2016  Quant Results File: 1PST3988.RES

Method       : C:\MSDCHEM\1\METHODS\1PST3988.M (Chemstation Integrator)
Title        : PEST/PCB
Last Update  : Thu Jun 02 13:15:36 2016
Response via : Multiple Level Calibration
```





QEdit

(4) gamma-BHC (MA)

2.70min 28.603PPB

response 116188402

(4) gamma-BHC #2 (MA)

3.34min 27.846PPB m

response 754217876

(+) = Expected Retention Time

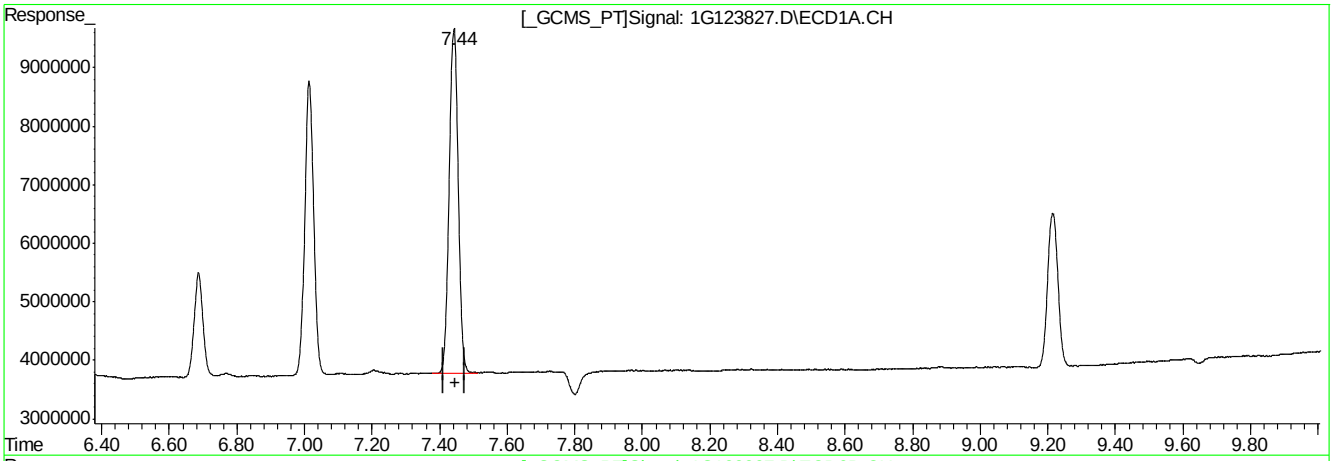
1G123827.D 1PST3988.M Fri Jun 03 17:11:48 2016 RPT1

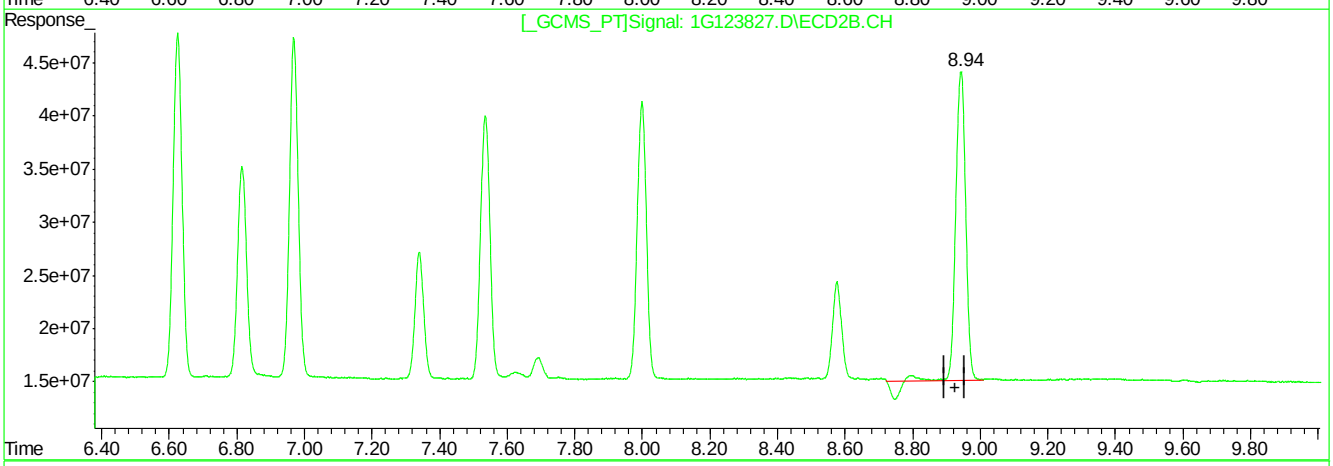
SGS ACCUTEST JC21347

Quantitation Report (Qedit)

```
Signal #1 : C:\MSDCHEM\1\DATA\1G4003\1G123827.D\ECD1A.CH Vial: 12
Signal #2 : C:\MSDCHEM\1\DATA\1G4003\1G123827.D\ECD2B.CH
Acq On    : 03 Jun 2016  12:52 pm                    Operator: kristend
Sample    : op94431-ms                               Inst    : GC1G
Misc      : op94431,g1g4003,455,,,10,1               Multiplr: 1.00
IntFile Signal #1: autoint1.e     IntFile Signal #2: autoint2.e
Quant Time: Jun  3 17:11 2016  Quant Results File: 1PST3988.RES

Method       : C:\MSDCHEM\1\METHODS\1PST3988.M (Chemstation Integrator)
Title        : PEST/PCB
Last Update  : Thu Jun 02 13:15:36 2016
Response via : Multiple Level Calibration
```





QEdit

(23) Endrin Ketone (B)

7.44min 28.184PPB

response 110459160

(23) Endrin Ketone #2 (B)

8.94min 29.612PPB

response 567211007

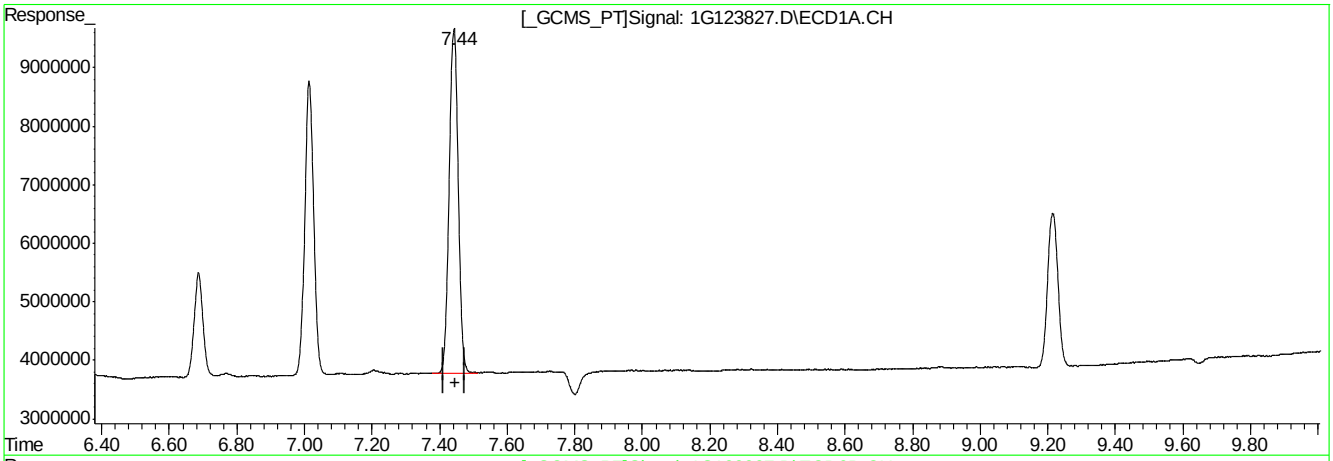
(+) = Expected Retention Time

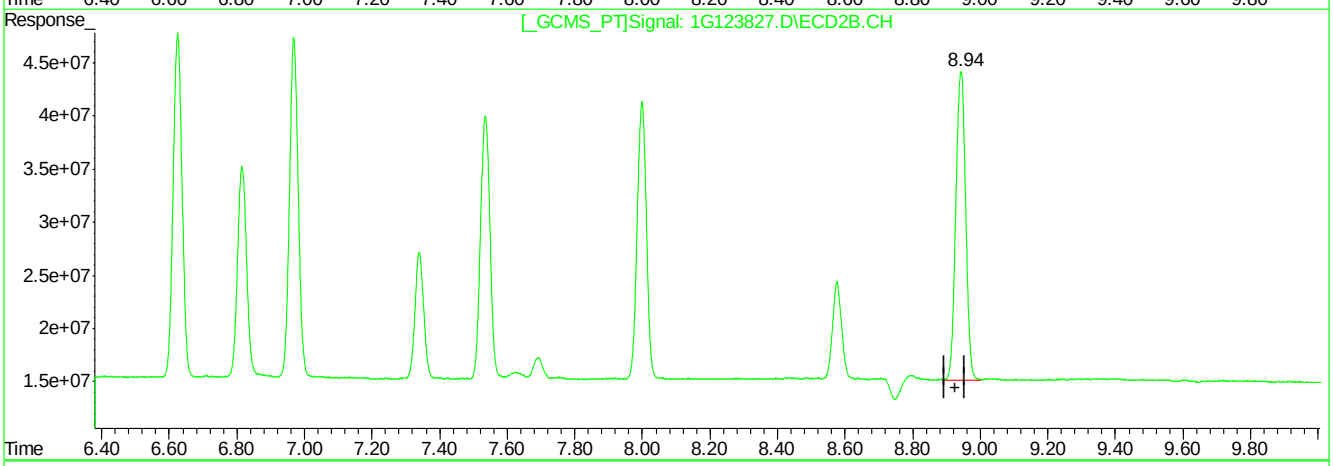
1G123827.D 1PST3988.M Fri Jun 03 17:12:05 2016 RPT1

Quantitation Report (Qedit)

```
Signal #1 : C:\MSDCHEM\1\DATA\1G4003\1G123827.D\ECD1A.CH Vial: 12
Signal #2 : C:\MSDCHEM\1\DATA\1G4003\1G123827.D\ECD2B.CH
Acq On    : 03 Jun 2016  12:52 pm                    Operator: kristend
Sample    : op94431-ms                               Inst    : GC1G
Misc      : op94431,g1g4003,455,,,10,1               Multiplr: 1.00
IntFile Signal #1: autoint1.e     IntFile Signal #2: autoint2.e
Quant Time: Jun  3 17:11 2016  Quant Results File: 1PST3988.RES

Method       : C:\MSDCHEM\1\METHODS\1PST3988.M (Chemstation Integrator)
Title        : PEST/PCB
Last Update  : Thu Jun 02 13:15:36 2016
Response via : Multiple Level Calibration
```





QEdit

(23) Endrin Ketone (B)

7.44min 28.184PPB

response 110459160

(23) Endrin Ketone #2 (B)

8.94min 30.016PPB m

response 574965213

(+) = Expected Retention Time

1G123827.D 1PST3988.M Fri Jun 03 17:12:13 2016 RPT1

11.4.1.5

11

Manual Integrations APPROVED (compounds with "m" flag)
Gwendolyn Burns 06/06/16 12:07

Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\1G4003\1G123828.D\ECD1A.CH Vial: 13
Signal #2 : C:\MSDCHEM\1\DATA\1G4003\1G123828.D\ECD2B.CH
Acq On : 6-3-16 01:10:00 PM Operator: kristend
Sample : op94431-msd Inst : GC1G
Misc : op94431,g1g4003,455,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: Jun 3 17:13 2016 Quant Results File: 1PST3988.RES

Quant Method : C:\MSDCHEM\1\METHODS\1PST3988.M (Chemstation Integrator)
Title : PEST/PCB
Last Update : Thu Jun 02 13:15:36 2016
Response via : Initial Calibration
DataAcq Meth : 1PST3988.M

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.50um Signal #2 Info : 30m x .32mm x .25um

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	Internal Standards						
1) I	1-bromo-2-nitrob	1.33	1.49	162.6E6	1099.1E6	50.000	50.000
25) I	1-bromo-2-nitrob	1.33	1.49	162.6E6	1099.1E6	50.000	50.000
31) I	1-bromo-2-nitrob	1.33	1.49	162.6E6	1099.1E6	50.000	50.000
	System Monitoring Compounds						
2) SAB	Tetrachloro-m-xy	1.93	2.29	111.2E6	679.0E6	37.838	34.730
Spiked Amount	40.000	Range	30 - 150	Recovery	=	94.60%	86.83%
24) SA	Decachlorobiphen	9.21	10.66	52254153	201.1E6	13.078	14.642
Spiked Amount	40.000			Recovery	=	32.69%	36.60%
	Target Compounds						
3) A	alpha-BHC	2.41	2.93	125.0E6	776.4E6	29.746	26.521
4) MA	gamma-BHC	2.70	3.34	109.9E6	718.6E6	27.974	27.121m
5) MA	Heptachlor	3.19	3.89	85222827	512.0E6	21.315	20.701
6) B	beta-BHC	2.78	3.42	50375194	346.4E6	26.799	28.517
7) B	delta-BHC	2.97	3.80	107.0E6	703.4E6	27.790	26.553
8) MB	Aldrin	3.52	4.33	62269360	437.4E6	17.089	19.329
9) B	Heptachlor Epoxi	4.23	5.12	99372432	590.3E6	27.671	29.156
10) B	gamma-Chlordane	4.39	5.40	75480286	466.6E6	20.422	22.559
11) B	alpha-Chlordane	4.56	5.62	75697305	442.1E6	20.649	21.586
12) A	Endosulfan I	4.74	5.71	93015315	534.4E6	26.374	28.292
13) B	4,4'-DDE	4.67	5.88	48965973	300.9E6	13.249	14.811
14) MA	Dieldrin	5.06	6.13	96913536	578.4E6	26.390	27.273
15) MA	Endrin	5.38	6.63	97670794	565.7E6	29.341	30.312
16) A	4,4'-DDD	5.50	6.82	54498561	357.7E6	18.775	21.381
17) B	Endosulfan II	5.70	6.97	95517660	542.5E6	27.381	28.396
18) MA	4,4'-DDT	5.91	7.34	37663195	219.2E6	11.911	13.355
19) B	Endrin Aldehyde	6.33	7.54	80672177	446.6E6	29.275	30.466
20) B	Endosulfan Sulfa	7.02	8.00	85491877	469.1E6	25.525	28.062
21) A	Methoxychlor	6.69	8.58	31639900	169.7E6	16.897	19.249
23) B	Endrin Ketone	7.44	8.94	102.6E6	541.3E6	27.077	28.884

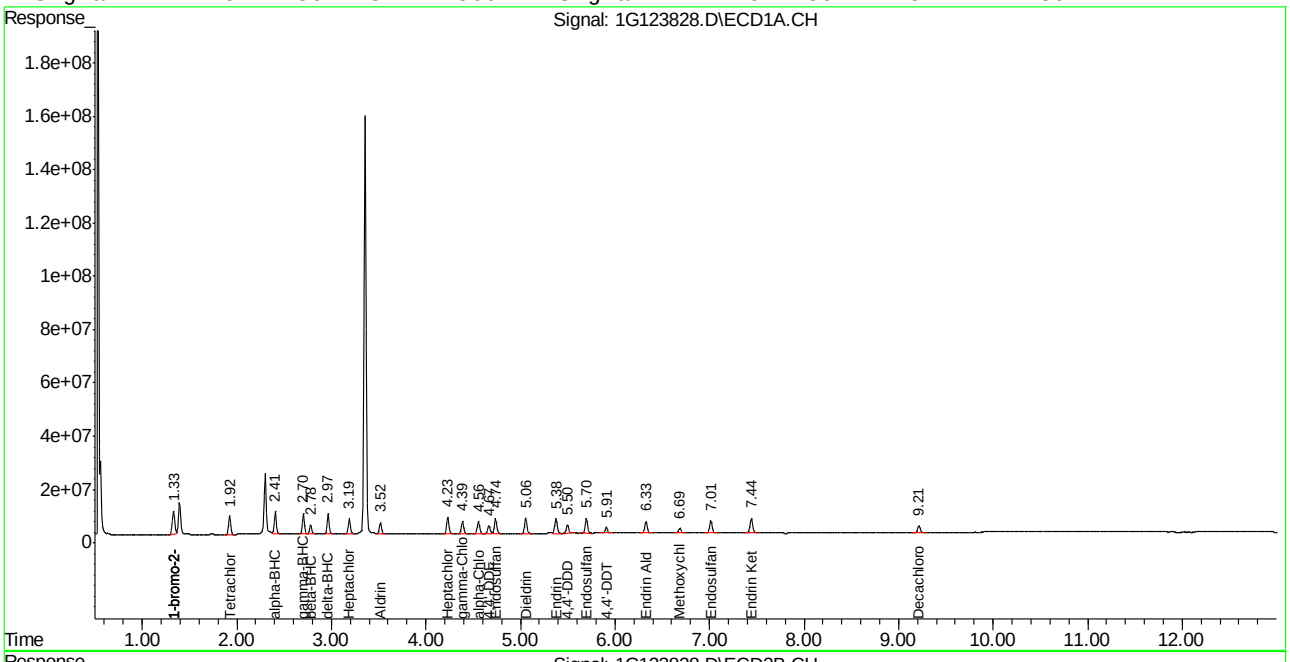
(f)=RT Delta > 1/2 Window (m)=manual int.

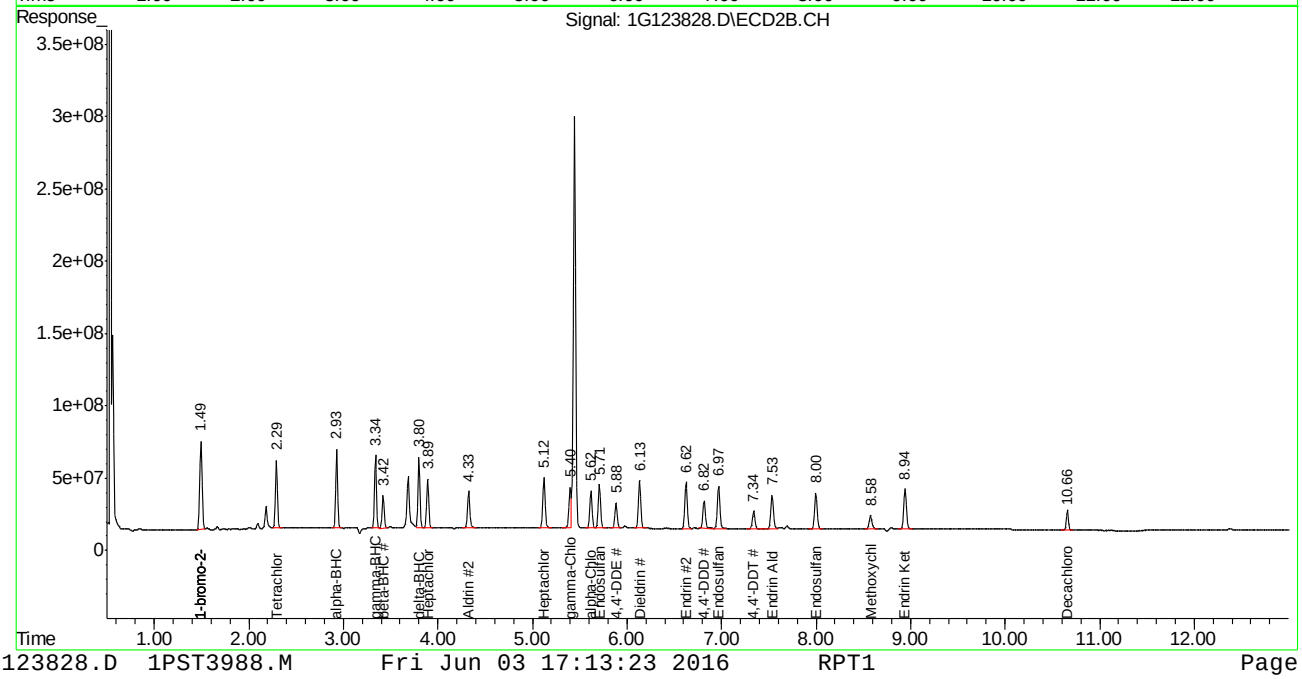
Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\1G4003\1G123828.D\ECD1A.CH Vial: 13
Signal #2 : C:\MSDCHEM\1\DATA\1G4003\1G123828.D\ECD2B.CH
Acq On : 6-3-16 01:10:00 PM Operator: kristend
Sample : op94431-msd Inst : GC1G
Misc : op94431,g1g4003,455,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: Jun 3 17:13 2016 Quant Results File: 1PST3988.RES

Quant Method : C:\MSDCHEM\1\METHODS\1PST3988.M (Chemstation Integrator)
Title : PEST/PCB
Last Update : Thu Jun 02 13:15:36 2016
Response via : Multiple Level Calibration
DataAcq Meth : 1PST3988.M

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.50um Signal #2 Info : 30m x .32mm x .25um





SGS ACCUTEST JC21347

Manual Integration Approval Summary

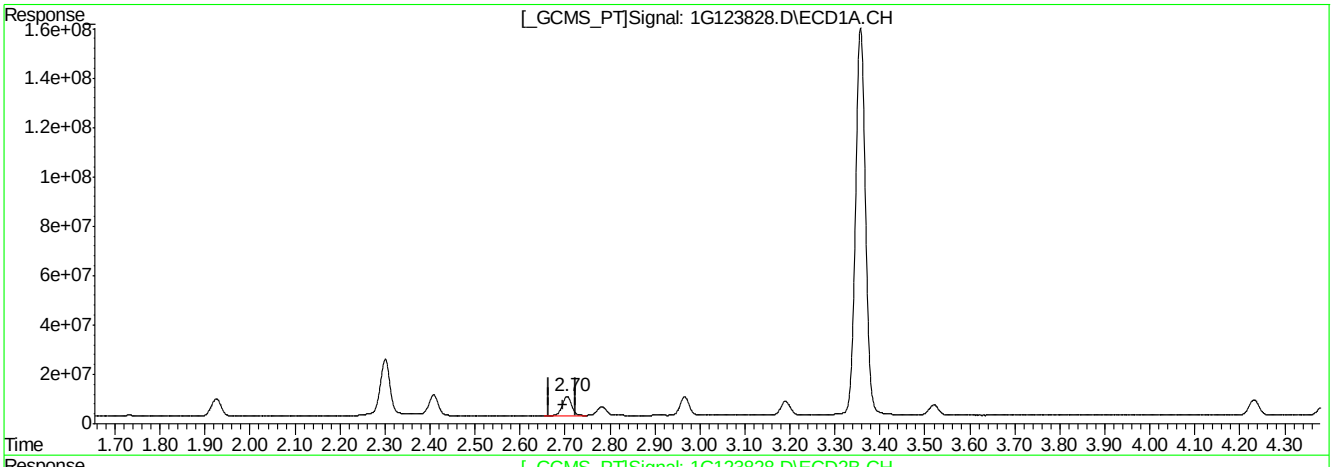
Sample Number:	OP94431-MSD	**Method:**	SW846 8081B
Lab FileID:	1G123828.D	**Analyst approved:**	06/03/16 18:22 Dhara Saparia
Injection Time:	06/03/16 13:10	**Supervisor approved:**	06/06/16 12:07 Gwendolyn Burns

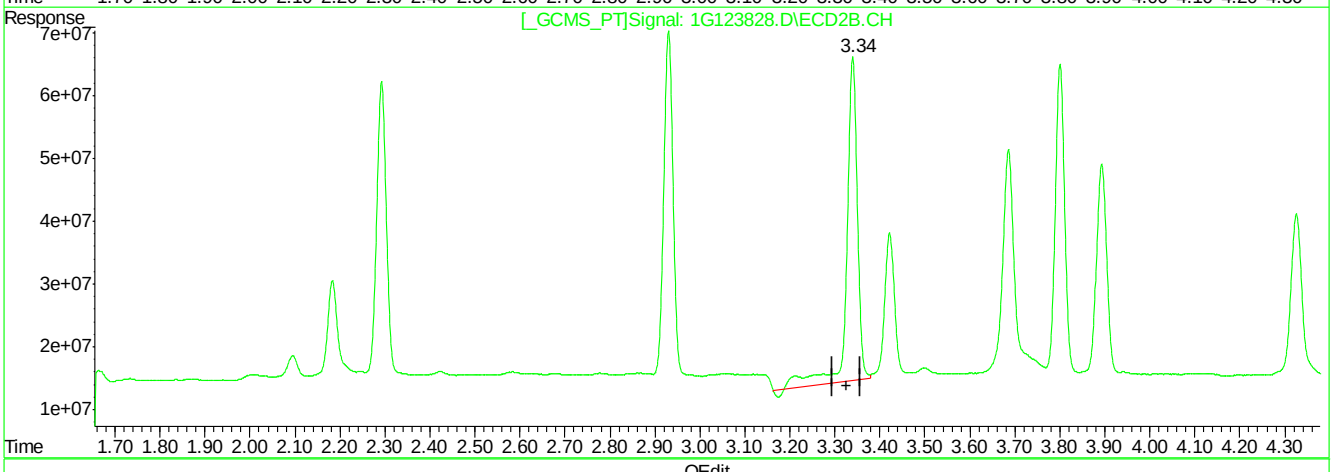
Parameter	CAS	Sig#	R.T. (min.)	Reason
gamma-BHC (Lindane)	58-89-9	2	3.34	Poor instrument integration

Quantitation Report (Qedit)

```
Signal #1 : C:\MSDCHEM\1\DATA\1G4003\1G123828.D\ECD1A.CH Vial: 13
Signal #2 : C:\MSDCHEM\1\DATA\1G4003\1G123828.D\ECD2B.CH
Acq On    : 6-3-16 01:10:00 PM                      Operator: kristend
Sample    : op94431-msd                             Inst    : GC1G
Misc      : op94431,g1g4003,455,,,10,1              Multiplr: 1.00
IntFile Signal #1: autoint1.e     IntFile Signal #2: autoint2.e
Quant Time: Jun  3 17:12 2016  Quant Results File: 1PST3988.RES

Method       : C:\MSDCHEM\1\METHODS\1PST3988.M (Chemstation Integrator)
Title        : PEST/PCB
Last Update  : Thu Jun 02 13:15:36 2016
Response via : Multiple Level Calibration
```





QEdit

(4) gamma-BHC (MA)

2.70min 27.974PPB

response 109880140

(4) gamma-BHC #2 (MA)

3.34min 32.440PPB

response 859573381

(+) = Expected Retention Time

1G123828.D 1PST3988.M Fri Jun 03 17:12:49 2016 RPT1

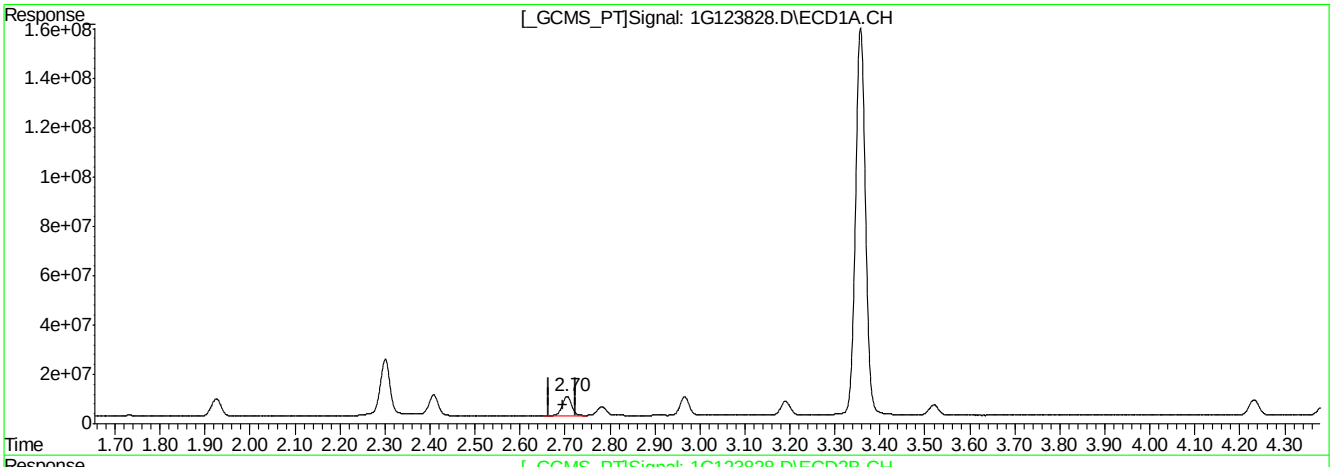
11.4.2.2

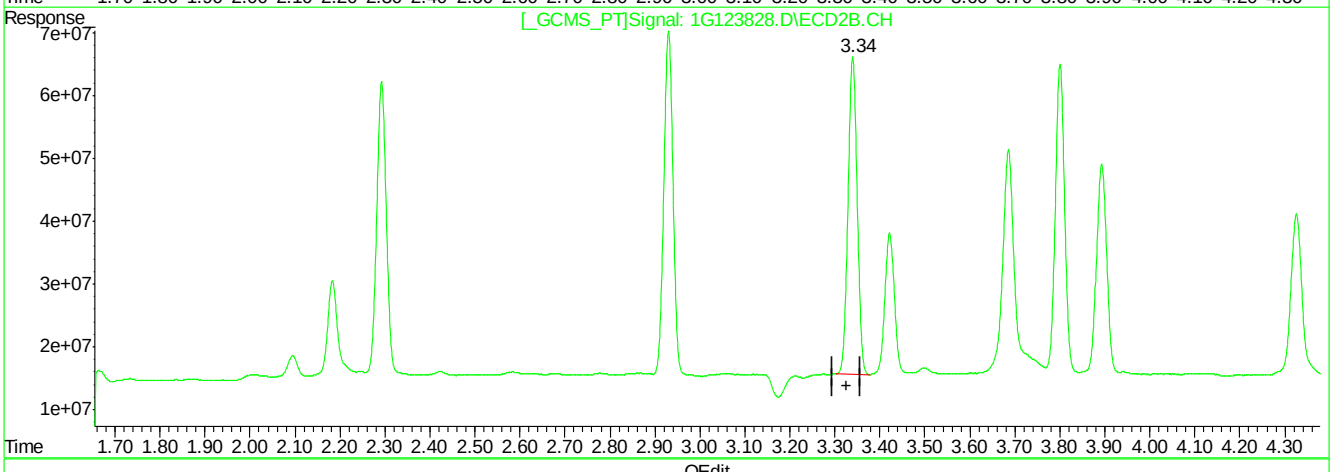
11

Quantitation Report (Qedit)

```
Signal #1 : C:\MSDCHEM\1\DATA\1G4003\1G123828.D\ECD1A.CH Vial: 13
Signal #2 : C:\MSDCHEM\1\DATA\1G4003\1G123828.D\ECD2B.CH
Acq On    : 6-3-16 01:10:00 PM                      Operator: kristend
Sample    : op94431-msd                             Inst    : GC1G
Misc      : op94431,g1g4003,455,,,10,1              Multiplr: 1.00
IntFile Signal #1: autoint1.e     IntFile Signal #2: autoint2.e
Quant Time: Jun  3 17:12 2016  Quant Results File: 1PST3988.RES

Method       : C:\MSDCHEM\1\METHODS\1PST3988.M (Chemstation Integrator)
Title        : PEST/PCB
Last Update  : Thu Jun 02 13:15:36 2016
Response via : Multiple Level Calibration
```





QEdit

(4) gamma-BHC (MA)

2.70min 27.974PPB

response 109880140

(4) gamma-BHC #2 (MA)

3.34min 27.121PPB m

response 718648262

(+) = Expected Retention Time

1G123828.D 1PST3988.M Fri Jun 03 17:12:57 2016 RPT1

11.4.2.3

11

Manual Integrations APPROVED (compounds with "m" flag)
Gwendolyn Burns 06/16/16 06:27

Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\1G4005\1G123988.D\ECD1A.CH Vial: 37
Signal #2 : C:\MSDCHEM\1\DATA\1G4005\1G123988.D\ECD2B.CH
Acq On : 6-8-16 06:51:41 AM Operator: dharas
Sample : op94442-ms Inst : GC1G
Misc : op94442,g1g4005,15.8,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: Jun 13 14:15 2016 Quant Results File: 1PST3988.RES

Quant Method : C:\MSDCHEM\1\METHODS\1PST3988.M (Chemstation Integrator)
Title : PEST/PCB
Last Update : Mon Jun 13 14:13:50 2016
Response via : Initial Calibration
DataAcq Meth : 1PST3988.M

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.50um Signal #2 Info : 30m x .32mm x .25um

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	Internal Standards						
1) I	1-bromo-2-nitrob	1.35	1.51	190.7E6	1237.4E6	50.000	50.000
25) I	1-bromo-2-nitrob	1.35	1.51	190.7E6	1237.4E6	50.000	50.000
31) I	1-bromo-2-nitrob	1.35	1.51	190.7E6	1237.4E6	50.000	50.000
	System Monitoring Compounds						
2) SAB	Tetrachloro-m-xy	1.94	2.30	115.8E6	730.2E6	33.589m	33.171
Spiked Amount	40.000	Range	30 - 150	Recovery	=	83.97%	82.93%
24) SA	Decachlorobiphen	9.21	10.66	147.4E6	586.5E6	31.464m	37.923
Spiked Amount	40.000			Recovery	=	78.66%	94.81%
	Target Compounds						
3) A	alpha-BHC	2.42	2.94	101.8E6	714.9E6	20.641	21.691
4) MA	gamma-BHC	2.71	3.34	96473794	675.9E6	20.941	22.655
5) MA	Heptachlor	3.20	3.90	102.0E6	634.9E6	21.741	22.802
6) B	beta-BHC	2.79	3.43	44541117	300.1E6	20.203	21.940
7) B	delta-BHC	2.97	3.80	92041184	641.7E6	20.377	21.518
8) MB	Aldrin	3.52	4.33	95239996	630.9E6	22.285	24.762
9) B	Heptachlor Epoxi	4.23	5.12	96341848	573.5E6	22.873	25.159
10) B	gamma-Chlordane	4.39	5.40	93520285	573.3E6	21.573	24.623
11) B	alpha-Chlordane	4.56	5.62	92482855	572.9E6	21.510	24.847
12) A	Endosulfan I	4.74	5.71	88023061	526.8E6	21.280	24.772
13) B	4,4'-DDE	4.67	5.89	89704752	559.6E6	20.696	24.466
14) MA	Dieldrin	5.06	6.13	93620488	605.6E6	21.737	25.366
15) MA	Endrin	5.38	6.63	90277348	563.1E6	23.123	26.799
16) A	4,4'-DDD	5.50	6.82	69413156	481.2E6	20.389	25.551m
17) B	Endosulfan II	5.70	6.97	85246490	524.9E6	20.835	24.404
18) MA	4,4'-DDT	5.91	7.34	76005140	467.3E6	20.495	25.284
19) B	Endrin Aldehyde	6.33	7.54	68731016	407.4E6	21.266	24.682
20) B	Endosulfan Sulfa	7.01	8.00	77975256	462.0E6	19.850	24.548
21) A	Methoxychlor	6.69	8.58	44147388	268.7E6	20.101	27.071
23) B	Endrin Ketone	7.44	8.94	95515118	528.1E6	21.489	25.031

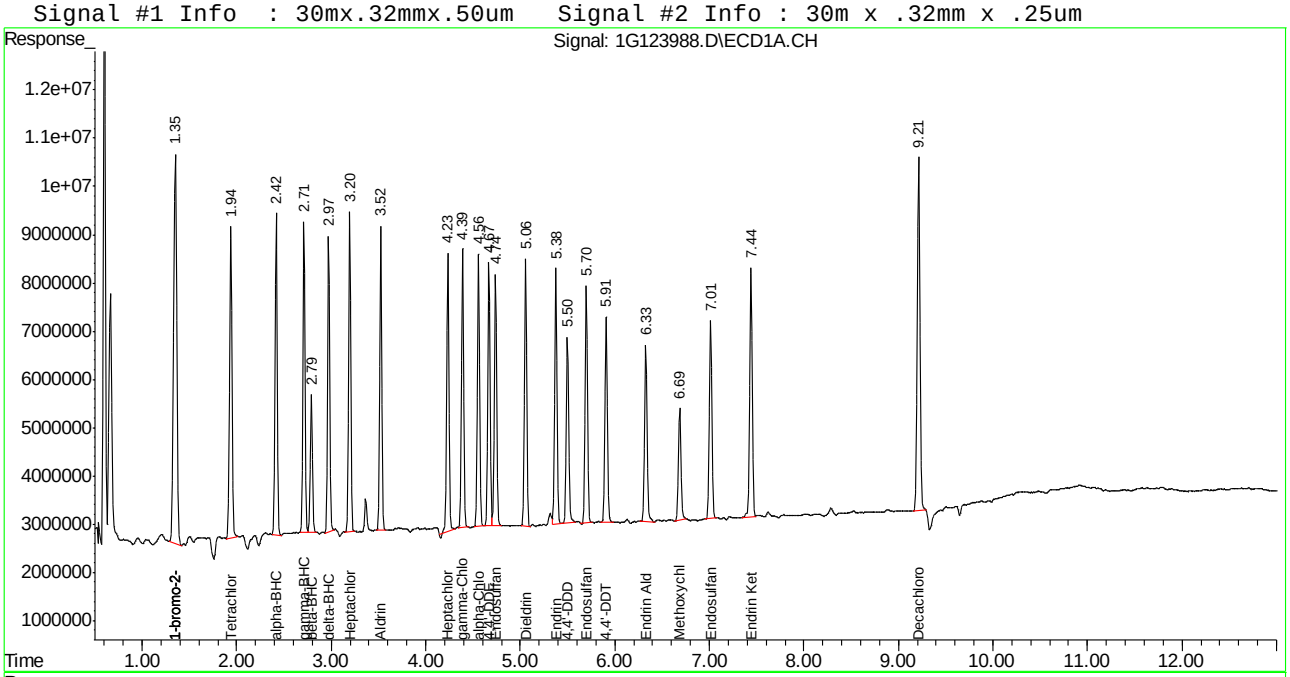
(f)=RT Delta > 1/2 Window (m)=manual int.

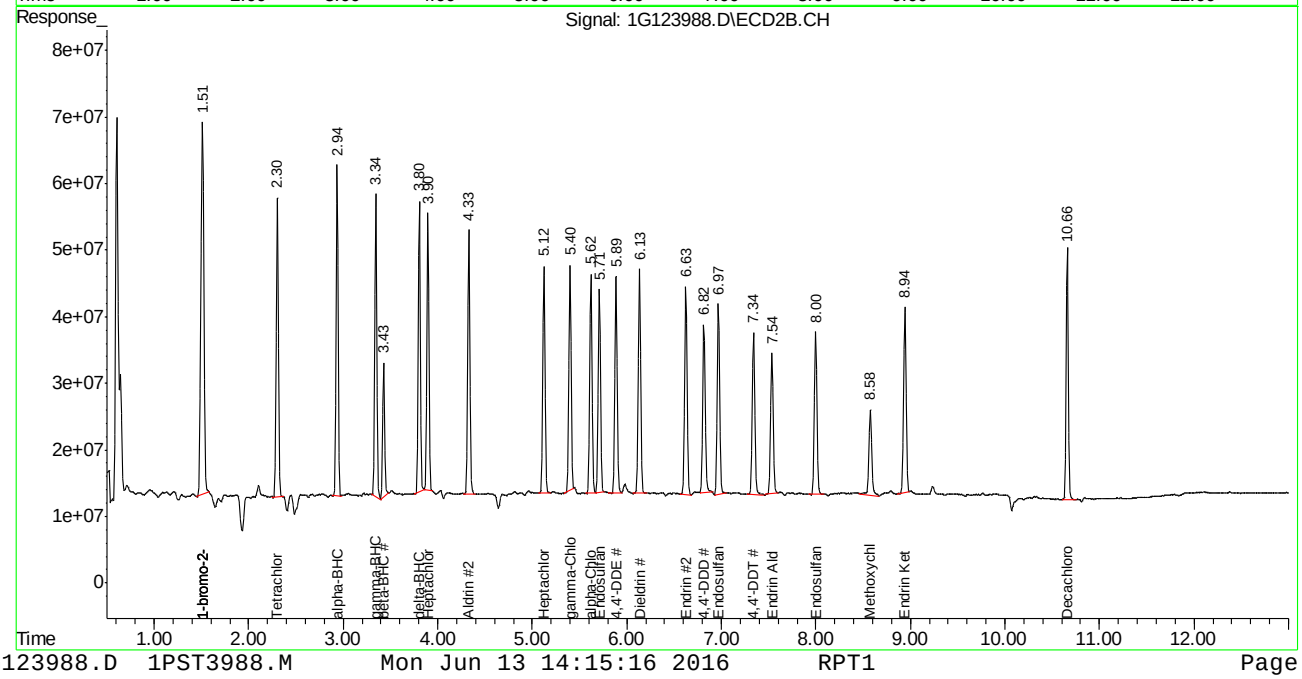
Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\1G4005\1G123988.D\ECD1A.CH Vial: 37
Signal #2 : C:\MSDCHEM\1\DATA\1G4005\1G123988.D\ECD2B.CH
Acq On : 6-8-16 06:51:41 AM Operator: dharas
Sample : op94442-ms Inst : GC1G
Misc : op94442,g1g4005,15.8,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: Jun 13 14:15 2016 Quant Results File: 1PST3988.RES

Quant Method : C:\MSDCHEM\1\METHODS\1PST3988.M (Chemstation Integrator)
Title : PEST/PCB
Last Update : Mon Jun 13 14:13:50 2016
Response via : Multiple Level Calibration
DataAcq Meth : 1PST3988.M

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.50um Signal #2 Info : 30m x .32mm x .25um





SGS ACCUTEST JC21347

Manual Integration Approval Summary

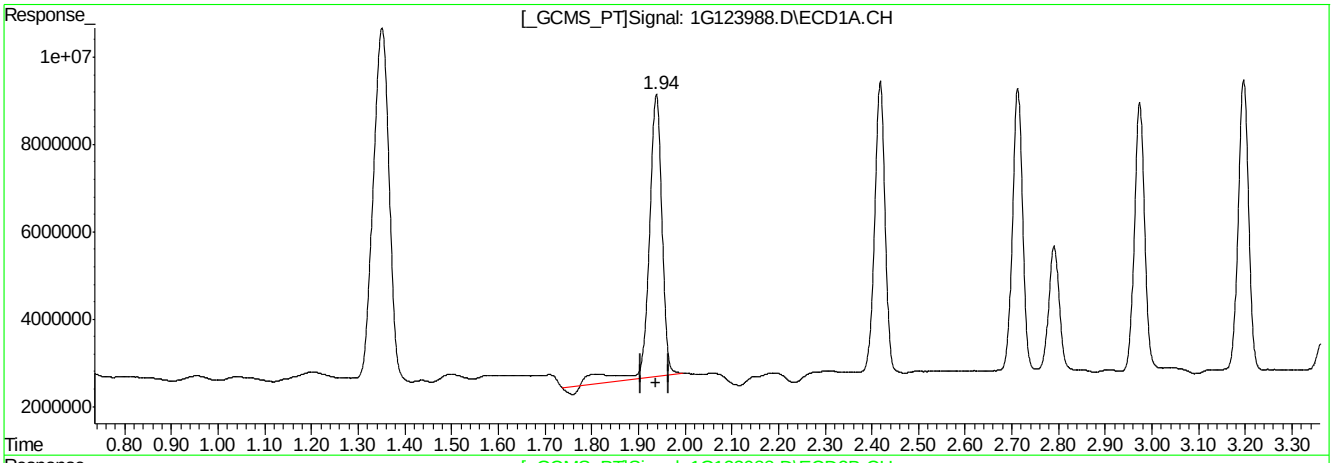
Sample Number:	OP94442-MS	**Method:**	SW846 8081B
Lab FileID:	1G123988.D	**Analyst approved:**	06/13/16 14:19 Dhara Saparia
Injection Time:	06/08/16 06:51	**Supervisor approved:**	06/16/16 06:27 Gwendolyn Burns

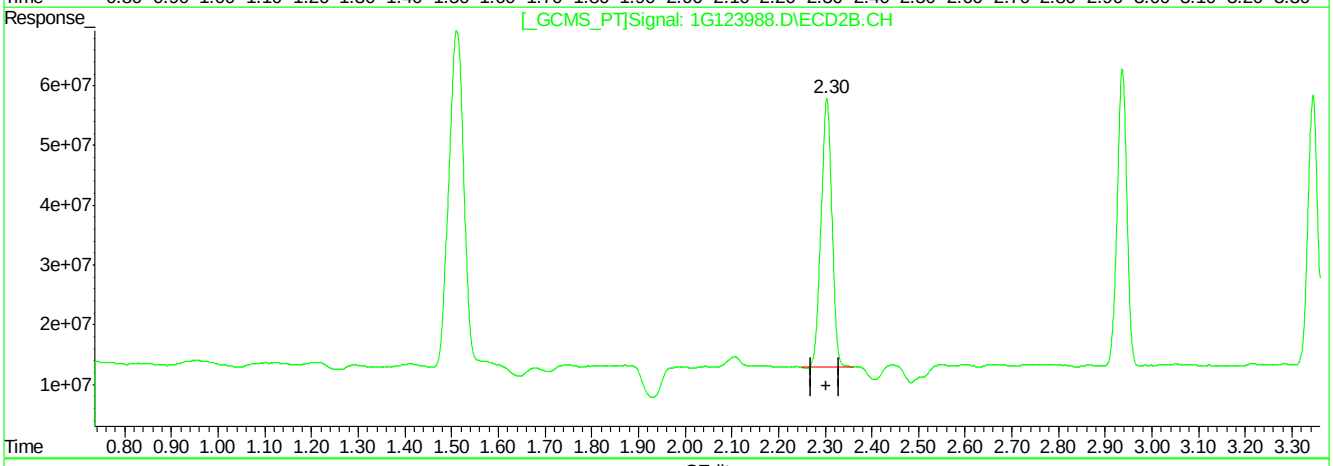
Parameter	CAS	Sig#	R.T. (min.)	Reason
Tetrachloro-m-xylene	877-09-8	1	1.94	Poorly defined baseline
4,4'-DDD	72-54-8	2	6.82	Poorly defined baseline
Decachlorobiphenyl	2051-24-3	1	9.21	Poorly defined baseline

Quantitation Report (Qedit)

```
Signal #1 : C:\MSDCHEM\1\DATA\1G4005\1G123988.D\ECD1A.CH Vial: 37
Signal #2 : C:\MSDCHEM\1\DATA\1G4005\1G123988.D\ECD2B.CH
Acq On    : 6-8-16 06:51:41 AM                      Operator: dharas
Sample    : op94442-ms                              Inst    : GC1G
Misc      : op94442,g1g4005,15.8,,,10,1             Multiplr: 1.00
IntFile Signal #1: autoint1.e     IntFile Signal #2: autoint2.e
Quant Time: Jun 13 14:14 2016  Quant Results File: 1PST3988.RES

Method       : C:\MSDCHEM\1\METHODS\1PST3988.M (Chemstation Integrator)
Title        : PEST/PCB
Last Update  : Mon Jun 13 14:13:50 2016
Response via : Multiple Level Calibration
```





QEdit

(2) Tetrachloro-m-xylene (SAB)

1.94min 36.157PPB

response 124630306

(2) Tetrachloro-m-xylene #2 (SAB)

2.30min 33.171PPB

response 730214693

(+) = Expected Retention Time

1G123988.D 1PST3988.M Mon Jun 13 14:14:20 2016 RPT1

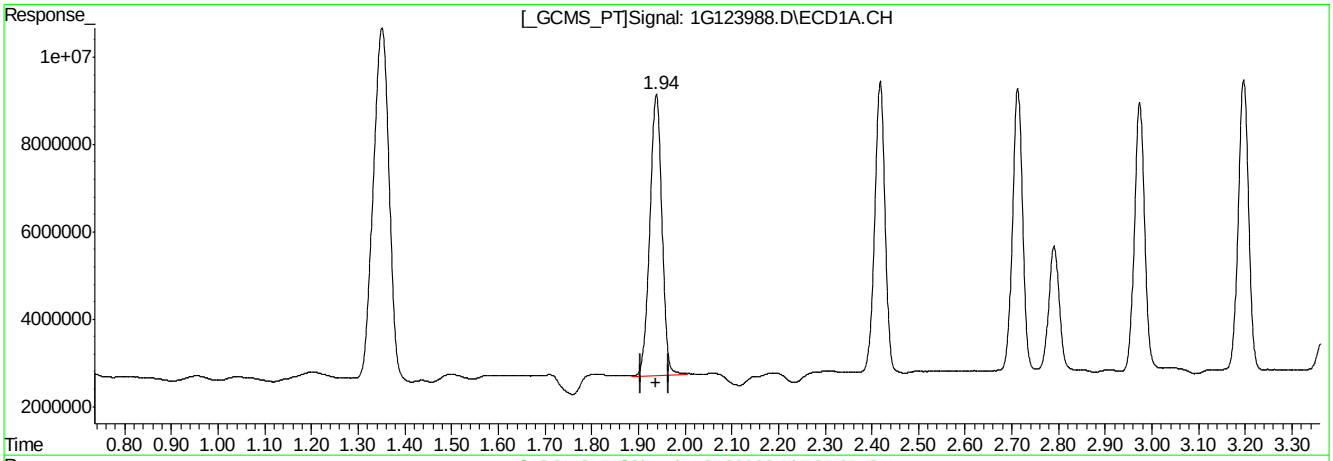
11.4.3.2 11

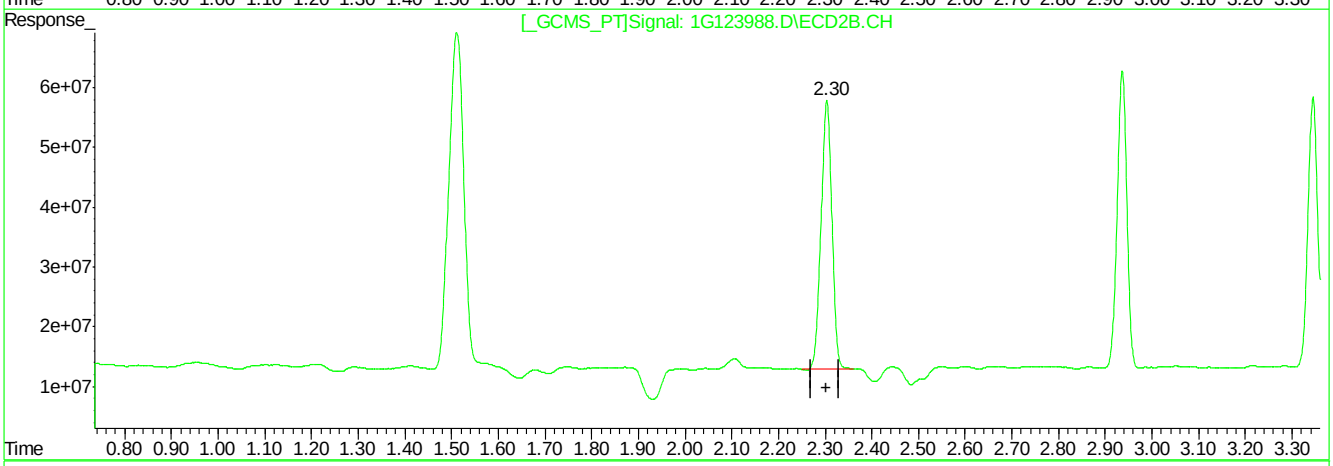
SGS ACCUTEST JC21347

Quantitation Report (Qedit)

```
Signal #1 : C:\MSDCHEM\1\DATA\1G4005\1G123988.D\ECD1A.CH Vial: 37
Signal #2 : C:\MSDCHEM\1\DATA\1G4005\1G123988.D\ECD2B.CH
Acq On    : 6-8-16 06:51:41 AM                      Operator: dharas
Sample    : op94442-ms                              Inst    : GC1G
Misc      : op94442,g1g4005,15.8,,,10,1             Multiplr: 1.00
IntFile Signal #1: autoint1.e     IntFile Signal #2: autoint2.e
Quant Time: Jun 13 14:14 2016  Quant Results File: 1PST3988.RES

Method       : C:\MSDCHEM\1\METHODS\1PST3988.M (Chemstation Integrator)
Title        : PEST/PCB
Last Update  : Mon Jun 13 14:13:50 2016
Response via : Multiple Level Calibration
```





QEdit

(2) Tetrachloro-m-xylene (SAB)

1.94min 33.589PPB m

response 115777493

(2) Tetrachloro-m-xylene #2 (SAB)

2.30min 33.171PPB

response 730214693

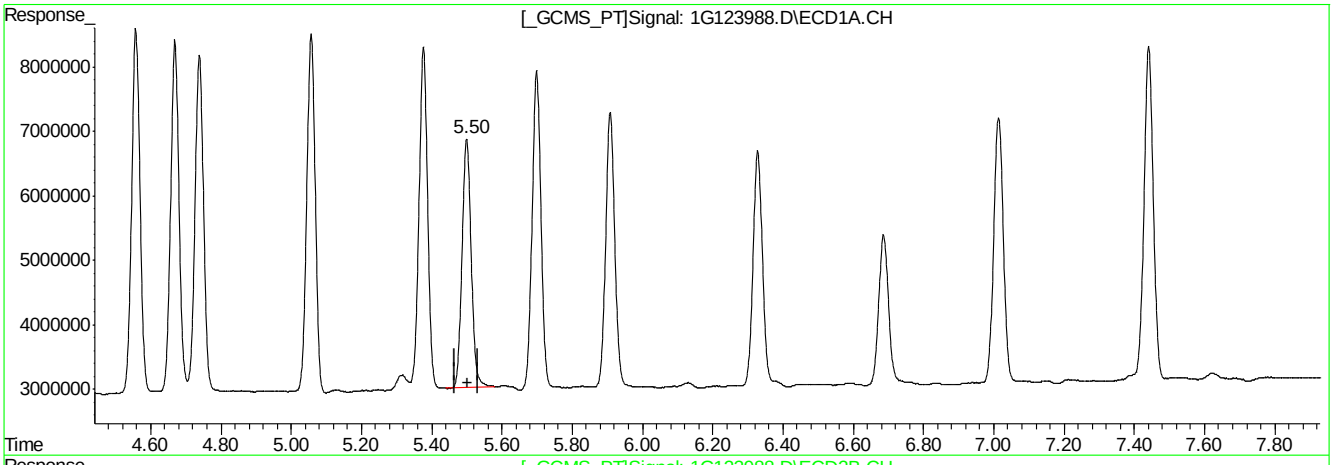
(+) = Expected Retention Time

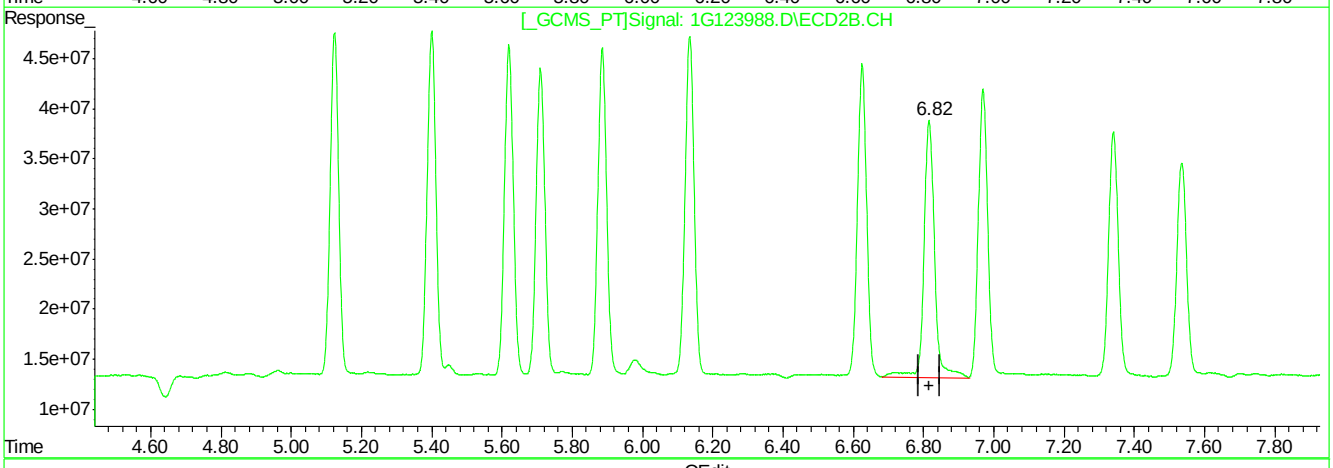
1G123988.D 1PST3988.M Mon Jun 13 14:14:26 2016 RPT1

Quantitation Report (Qedit)

```
Signal #1 : C:\MSDCHEM\1\DATA\1G4005\1G123988.D\ECD1A.CH Vial: 37
Signal #2 : C:\MSDCHEM\1\DATA\1G4005\1G123988.D\ECD2B.CH
Acq On    : 6-8-16 06:51:41 AM                      Operator: dharas
Sample    : op94442-ms                              Inst    : GC1G
Misc      : op94442,g1g4005,15.8,,,10,1             Multiplr: 1.00
IntFile Signal #1: autoint1.e     IntFile Signal #2: autoint2.e
Quant Time: Jun 13 14:14 2016  Quant Results File: 1PST3988.RES

Method       : C:\MSDCHEM\1\METHODS\1PST3988.M (Chemstation Integrator)
Title        : PEST/PCB
Last Update  : Mon Jun 13 14:13:50 2016
Response via : Multiple Level Calibration
```





QEdit

(16) 4,4'-DDD (A)

5.50min 20.389PPB

response 69413156

(16) 4,4'-DDD #2 (A)

6.82min 28.443PPB

response 535674612

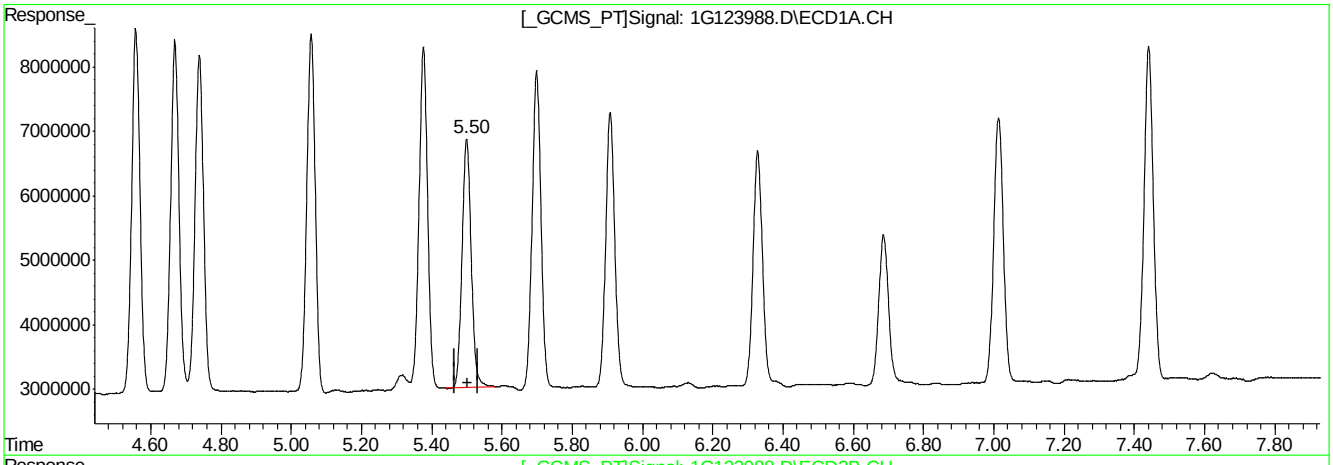
(+) = Expected Retention Time

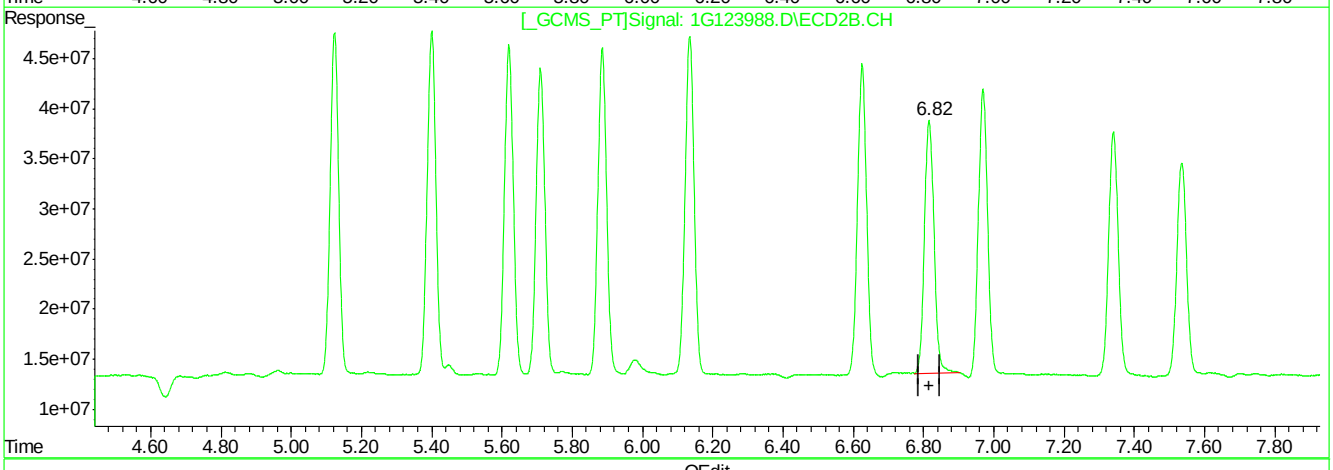
1G123988.D 1PST3988.M Mon Jun 13 14:14:38 2016 RPT1

Quantitation Report (Qedit)

```
Signal #1 : C:\MSDCHEM\1\DATA\1G4005\1G123988.D\ECD1A.CH Vial: 37
Signal #2 : C:\MSDCHEM\1\DATA\1G4005\1G123988.D\ECD2B.CH
Acq On    : 6-8-16 06:51:41 AM                      Operator: dharas
Sample    : op94442-ms                              Inst    : GC1G
Misc      : op94442,g1g4005,15.8,,,10,1             Multiplr: 1.00
IntFile Signal #1: autoint1.e     IntFile Signal #2: autoint2.e
Quant Time: Jun 13 14:14 2016  Quant Results File: 1PST3988.RES

Method       : C:\MSDCHEM\1\METHODS\1PST3988.M (Chemstation Integrator)
Title        : PEST/PCB
Last Update  : Mon Jun 13 14:13:50 2016
Response via : Multiple Level Calibration
```





QEdit

(16) 4,4'-DDD (A)

5.50min 20.389PPB

response 69413156

(16) 4,4'-DDD #2 (A)

6.82min 25.551PPB m

response 481208845

(+) = Expected Retention Time

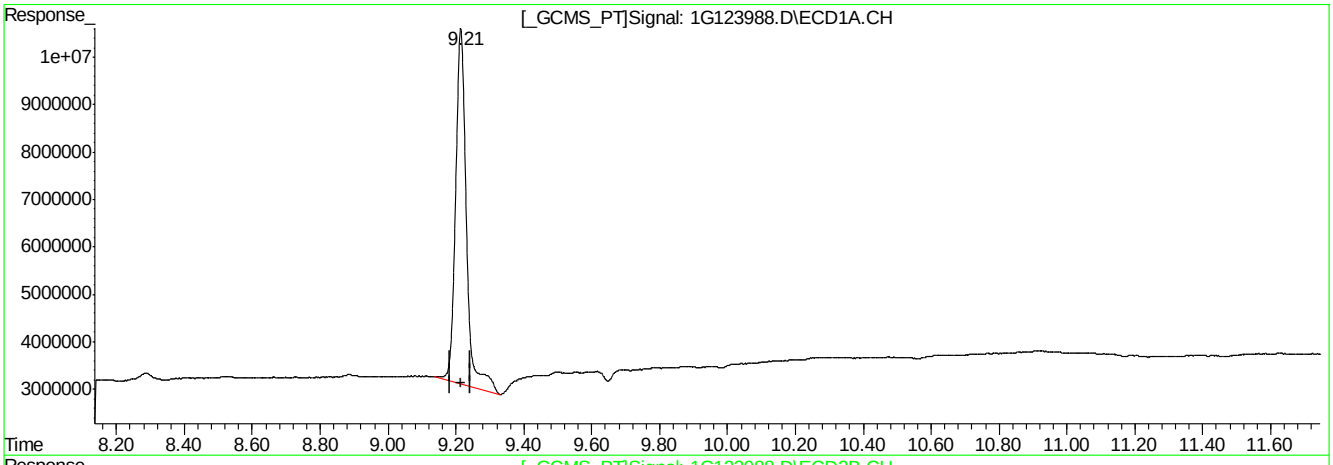
1G123988.D 1PST3988.M Mon Jun 13 14:14:47 2016 RPT1

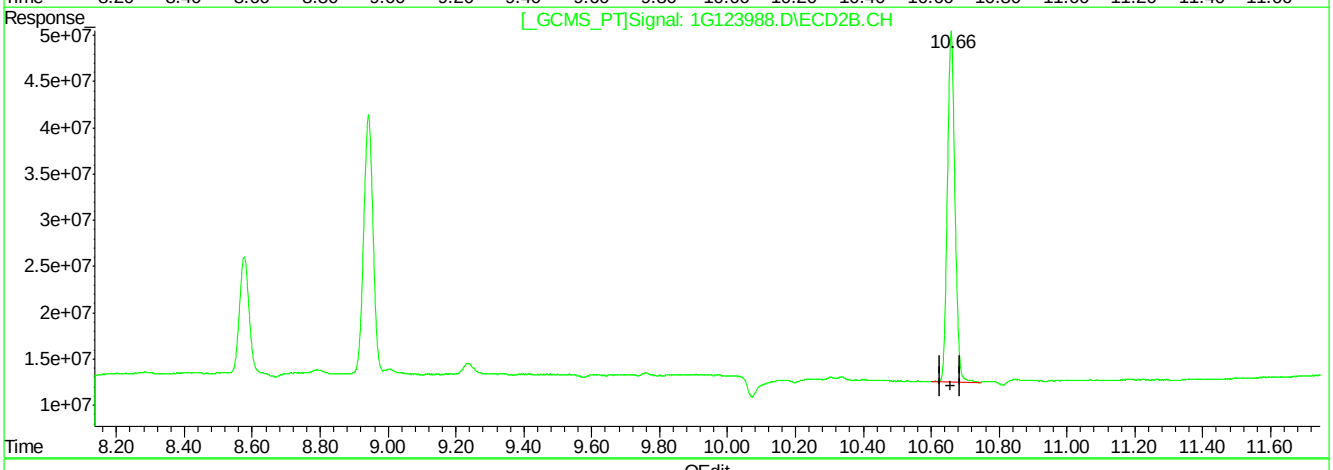
SGS ACCUTEST JC21347

Quantitation Report (Qedit)

```
Signal #1 : C:\MSDCHEM\1\DATA\1G4005\1G123988.D\ECD1A.CH Vial: 37
Signal #2 : C:\MSDCHEM\1\DATA\1G4005\1G123988.D\ECD2B.CH
Acq On    : 6-8-16 06:51:41 AM                      Operator: dharas
Sample    : op94442-ms                              Inst    : GC1G
Misc      : op94442,g1g4005,15.8,,,10,1             Multiplr: 1.00
IntFile Signal #1: autoint1.e     IntFile Signal #2: autoint2.e
Quant Time: Jun 13 14:14 2016  Quant Results File: 1PST3988.RES

Method       : C:\MSDCHEM\1\METHODS\1PST3988.M (Chemstation Integrator)
Title        : PEST/PCB
Last Update  : Mon Jun 13 14:13:50 2016
Response via : Multiple Level Calibration
```





QEdit

(24) Decachlorobiphenyl (SA)

9.21min 35.607PPB

response 166864042

(24) Decachlorobiphenyl #2 (SA)

10.66min 37.923PPB

response 586520776

(+) = Expected Retention Time

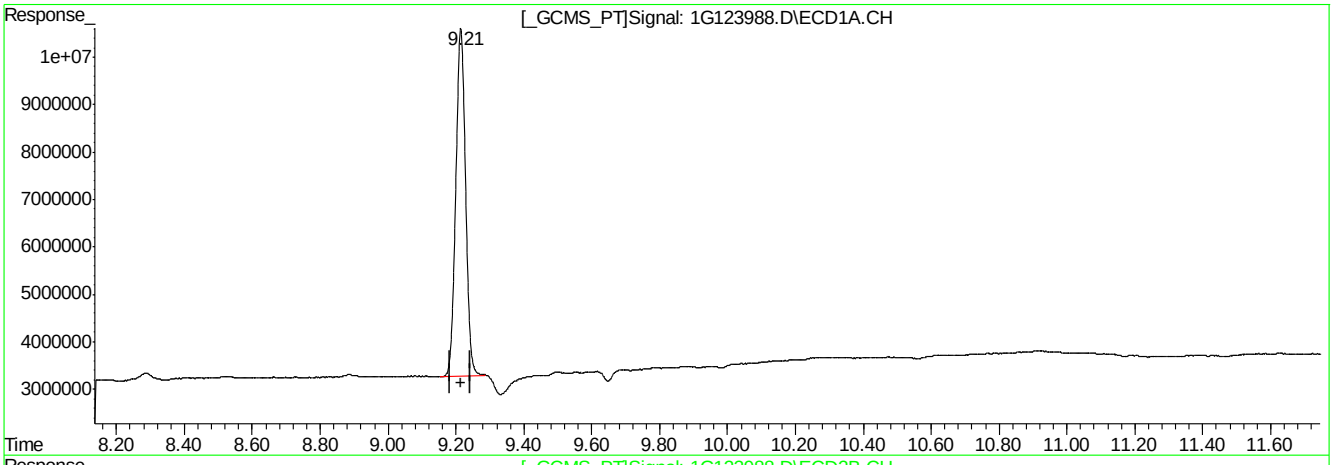
1G123988.D 1PST3988.M Mon Jun 13 14:14:56 2016 RPT1

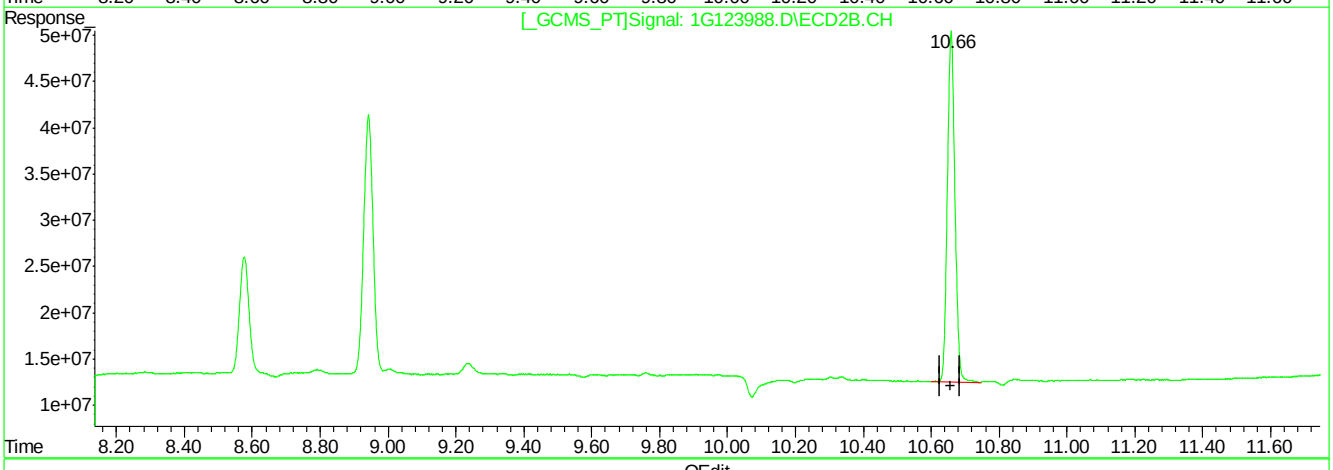
11.4.3.6 11

Quantitation Report (Qedit)

```
Signal #1 : C:\MSDCHEM\1\DATA\1G4005\1G123988.D\ECD1A.CH Vial: 37
Signal #2 : C:\MSDCHEM\1\DATA\1G4005\1G123988.D\ECD2B.CH
Acq On    : 6-8-16 06:51:41 AM                      Operator: dharas
Sample    : op94442-ms                              Inst    : GC1G
Misc      : op94442,g1g4005,15.8,,,10,1             Multiplr: 1.00
IntFile Signal #1: autoint1.e     IntFile Signal #2: autoint2.e
Quant Time: Jun 13 14:14 2016  Quant Results File: 1PST3988.RES

Method       : C:\MSDCHEM\1\METHODS\1PST3988.M (Chemstation Integrator)
Title        : PEST/PCB
Last Update  : Mon Jun 13 14:13:50 2016
Response via : Multiple Level Calibration
```





QEdit

(24) Decachlorobiphenyl (SA)

9.21min 31.464PPB m

response 147449105

(24) Decachlorobiphenyl #2 (SA)

10.66min 37.923PPB

response 586520776

(+) = Expected Retention Time

1G123988.D 1PST3988.M Mon Jun 13 14:15:02 2016 RPT1

11.4.3.7 11

Manual Integrations APPROVED (compounds with "m" flag)
Gwendolyn Burns 06/16/16 06:27

Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\1G4005\1G123989.D\ECD1A.CH Vial: 38
Signal #2 : C:\MSDCHEM\1\DATA\1G4005\1G123989.D\ECD2B.CH
Acq On : 6-8-16 07:09:12 AM Operator: dharas
Sample : op94442-msd Inst : GC1G
Misc : op94442,g1g4005,16.0,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: Jun 13 14:16 2016 Quant Results File: 1PST3988.RES

Quant Method : C:\MSDCHEM\1\METHODS\1PST3988.M (Chemstation Integrator)
Title : PEST/PCB
Last Update : Mon Jun 13 14:13:50 2016
Response via : Initial Calibration
DataAcq Meth : 1PST3988.M

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.50um Signal #2 Info : 30m x .32mm x .25um

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	Internal Standards						
1) I	1-bromo-2-nitrob	1.35	1.51	193.9E6	1237.1E6	50.000	50.000
25) I	1-bromo-2-nitrob	1.35	1.51	193.9E6	1237.1E6	50.000	50.000
31) I	1-bromo-2-nitrob	1.35	1.51	193.9E6	1237.1E6	50.000	50.000
	System Monitoring Compounds						
2) SAB	Tetrachloro-m-xy	1.94	2.30	107.5E6	682.3E6	30.671	31.004
Spiked Amount	40.000	Range	30 - 150	Recovery	=	76.68%	77.51%
24) SA	Decachlorobiphen	9.21	10.66	143.0E6	560.7E6	30.024m	36.261
Spiked Amount	40.000			Recovery	=	75.06%	90.65%
	Target Compounds						
3) A	alpha-BHC	2.42	2.94	96041712	683.7E6	19.164	20.750
4) MA	gamma-BHC	2.71	3.35	91096668	650.8E6	19.451	21.819
5) MA	Heptachlor	3.20	3.90	96949919	626.2E6	20.338	22.497
6) B	beta-BHC	2.79	3.43	41146320	285.2E6	18.359	20.858
7) B	delta-BHC	2.97	3.81	86915040	619.5E6	18.928	20.779
8) MB	Aldrin	3.52	4.33	105.3E6	603.5E6	24.240	23.692
9) B	Heptachlor Epoxi	4.23	5.12	95550438	536.3E6	22.315	23.536
10) B	gamma-Chlordane	4.39	5.40	90153825	539.0E6	20.458	23.154
11) B	alpha-Chlordane	4.56	5.62	88380240	548.5E6	20.220	23.795
12) A	Endosulfan I	4.74	5.71	83167902	512.9E6	19.779	24.123
13) B	4,4'-DDE	4.67	5.89	85838693	536.9E6	19.481	23.481
14) MA	Dieldrin	5.06	6.13	87916870	585.5E6	20.079	24.530
15) MA	Endrin	5.38	6.63	98518910	559.8E6	24.822	26.647
16) A	4,4'-DDD	5.50	6.82	68556716	458.5E6	19.809	24.350m
17) B	Endosulfan II	5.70	6.97	80524379	552.6E6	19.360	25.700
18) MA	4,4'-DDT	5.91	7.34	72891834	456.2E6	19.335	24.692
19) B	Endrin Aldehyde	6.33	7.53	69086288	380.9E6	21.027	23.085
20) B	Endosulfan Sulfa	7.01	8.00	74276073	442.4E6	18.600	23.514
21) A	Methoxychlor	6.69	8.58	43868304	239.6E6	19.649	24.145
23) B	Endrin Ketone	7.44	8.94	89015325	516.3E6	19.700	24.480

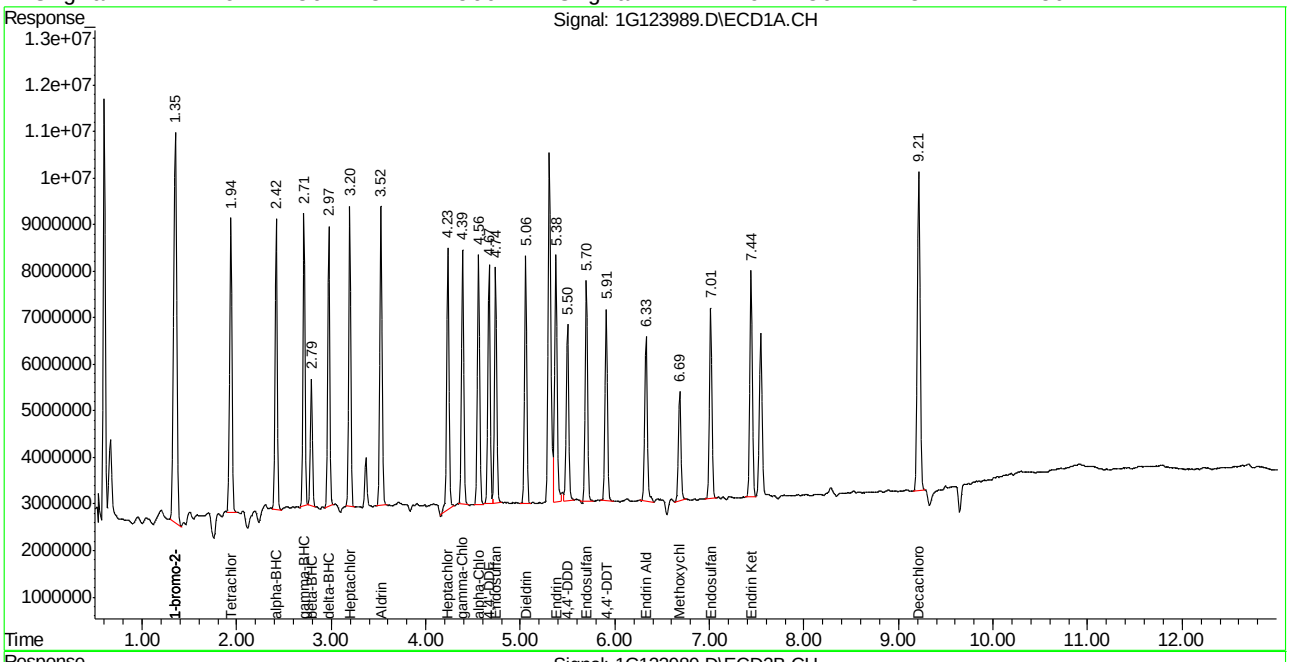
(f)=RT Delta > 1/2 Window (m)=manual int.

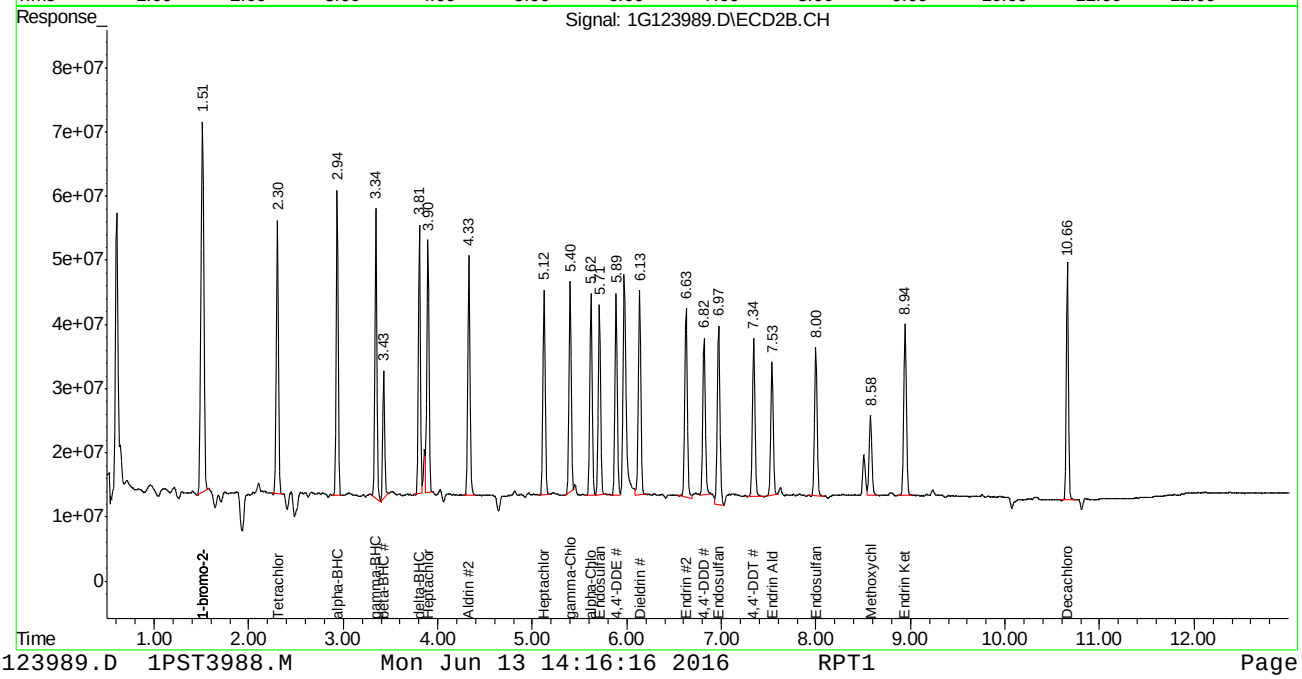
Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\1G4005\1G123989.D\ECD1A.CH Vial: 38
Signal #2 : C:\MSDCHEM\1\DATA\1G4005\1G123989.D\ECD2B.CH
Acq On : 6-8-16 07:09:12 AM Operator: dharas
Sample : op94442-msd Inst : GC1G
Misc : op94442,g1g4005,16.0,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: Jun 13 14:16 2016 Quant Results File: 1PST3988.RES

Quant Method : C:\MSDCHEM\1\METHODS\1PST3988.M (Chemstation Integrator)
Title : PEST/PCB
Last Update : Mon Jun 13 14:13:50 2016
Response via : Multiple Level Calibration
DataAcq Meth : 1PST3988.M

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.50um Signal #2 Info : 30m x .32mm x .25um





SGS ACCUTEST JC21347

Manual Integration Approval Summary

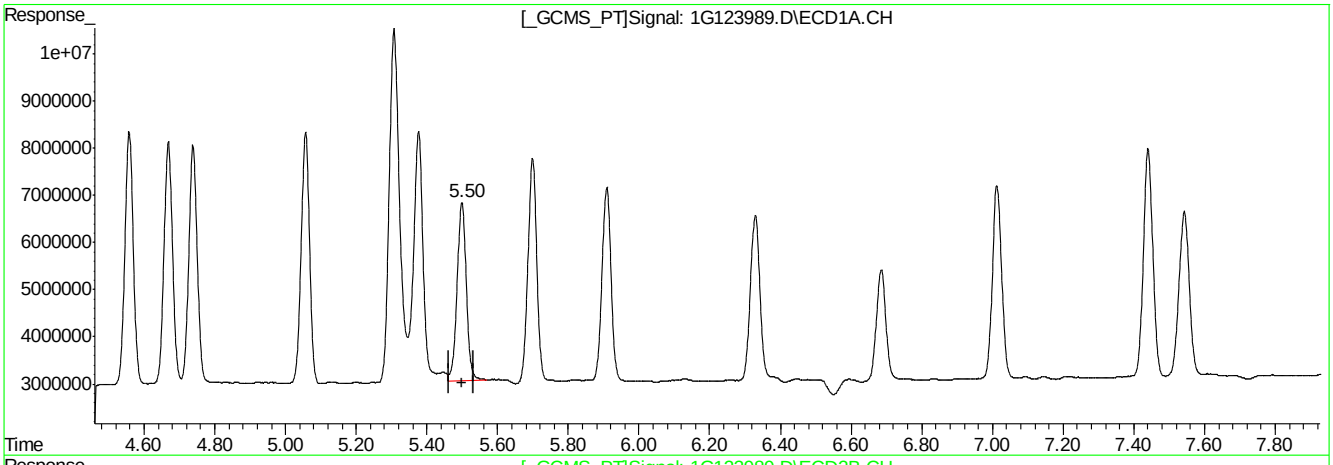
Sample Number:	OP94442-MSD	**Method:**	SW846 8081B
Lab FileID:	1G123989.D	**Analyst approved:**	06/13/16 14:19 Dhara Saparia
Injection Time:	06/08/16 07:09	**Supervisor approved:**	06/16/16 06:27 Gwendolyn Burns

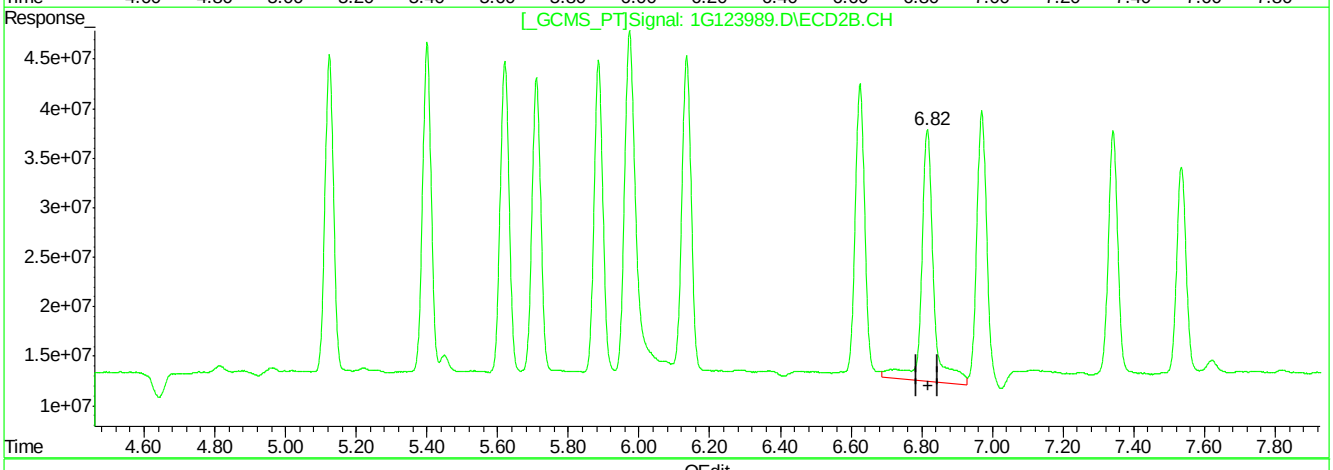
Parameter	CAS	Sig#	R.T. (min.)	Reason
4,4'-DDD	72-54-8	2	6.82	Poorly defined baseline
Decachlorobiphenyl	2051-24-3	1	9.21	Poorly defined baseline

Quantitation Report (Qedit)

```
Signal #1 : C:\MSDCHEM\1\DATA\1G4005\1G123989.D\ECD1A.CH Vial: 38
Signal #2 : C:\MSDCHEM\1\DATA\1G4005\1G123989.D\ECD2B.CH
Acq On    : 6-8-16 07:09:12 AM                      Operator: dharas
Sample    : op94442-msd                             Inst    : GC1G
Misc      : op94442,g1g4005,16.0,,,10,1             Multiplr: 1.00
IntFile Signal #1: autoint1.e     IntFile Signal #2: autoint2.e
Quant Time: Jun 13 14:15 2016  Quant Results File: 1PST3988.RES

Method       : C:\MSDCHEM\1\METHODS\1PST3988.M (Chemstation Integrator)
Title        : PEST/PCB
Last Update  : Mon Jun 13 14:13:50 2016
Response via : Multiple Level Calibration
```





QEdit

(16) 4,4'-DDD (A)

5.50min 19.809PPB

response 68556716

(16) 4,4'-DDD #2 (A)

6.82min 32.529PPB

response 612454390

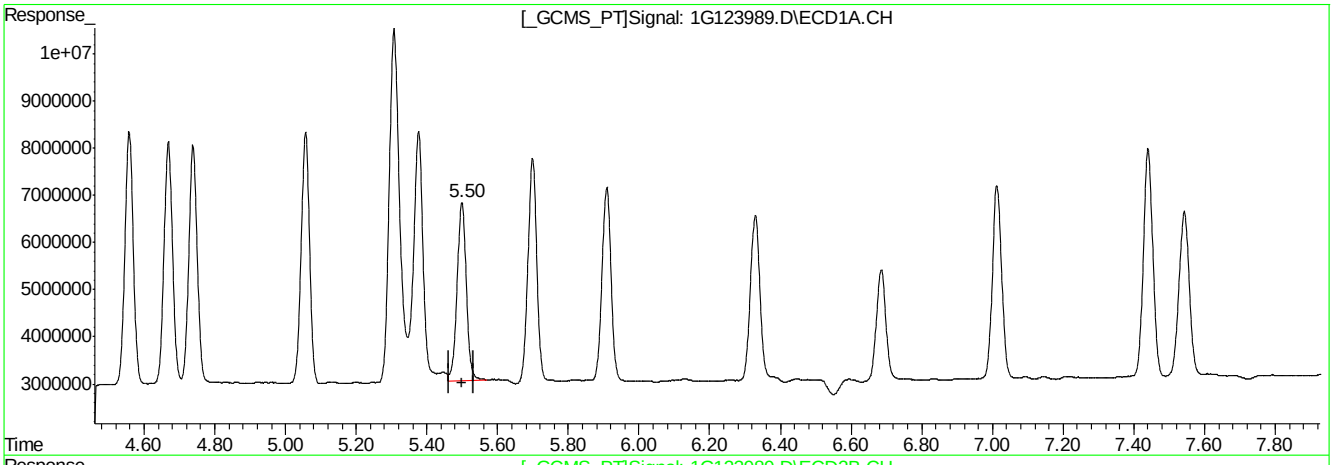
(+) = Expected Retention Time

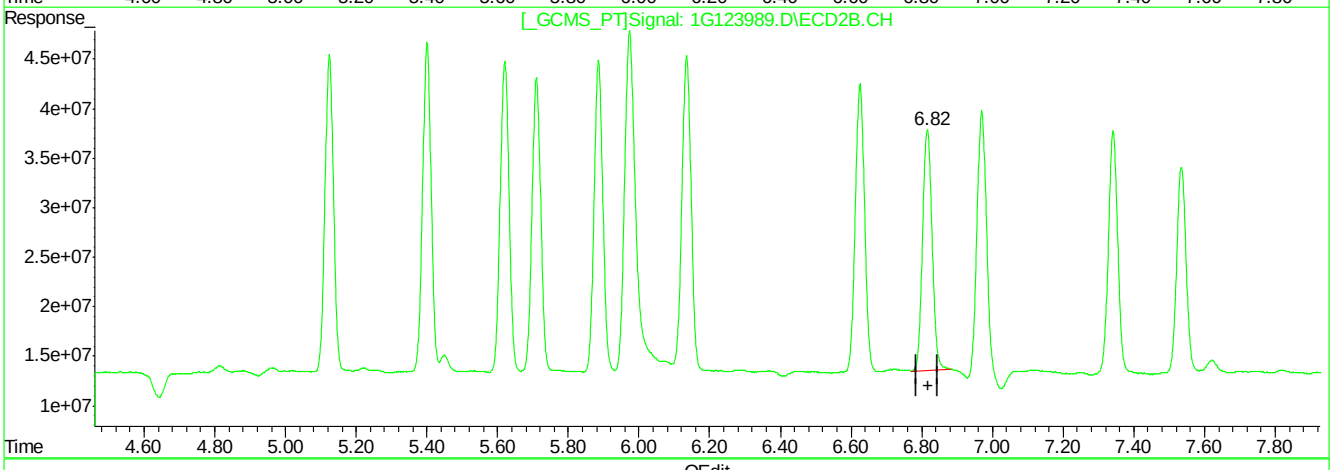
1G123989.D 1PST3988.M Mon Jun 13 14:15:36 2016 RPT1

Quantitation Report (Qedit)

```
Signal #1 : C:\MSDCHEM\1\DATA\1G4005\1G123989.D\ECD1A.CH Vial: 38
Signal #2 : C:\MSDCHEM\1\DATA\1G4005\1G123989.D\ECD2B.CH
Acq On    : 6-8-16 07:09:12 AM                      Operator: dharas
Sample    : op94442-msd                             Inst    : GC1G
Misc      : op94442,g1g4005,16.0,,,10,1             Multiplr: 1.00
IntFile Signal #1: autoint1.e     IntFile Signal #2: autoint2.e
Quant Time: Jun 13 14:15 2016  Quant Results File: 1PST3988.RES

Method       : C:\MSDCHEM\1\METHODS\1PST3988.M (Chemstation Integrator)
Title        : PEST/PCB
Last Update  : Mon Jun 13 14:13:50 2016
Response via : Multiple Level Calibration
```





QEdit

(16) 4,4'-DDD (A)

5.50min 19.809PPB

response 68556716

(16) 4,4'-DDD #2 (A)

6.82min 24.350PPB m

response 458460444

(+) = Expected Retention Time

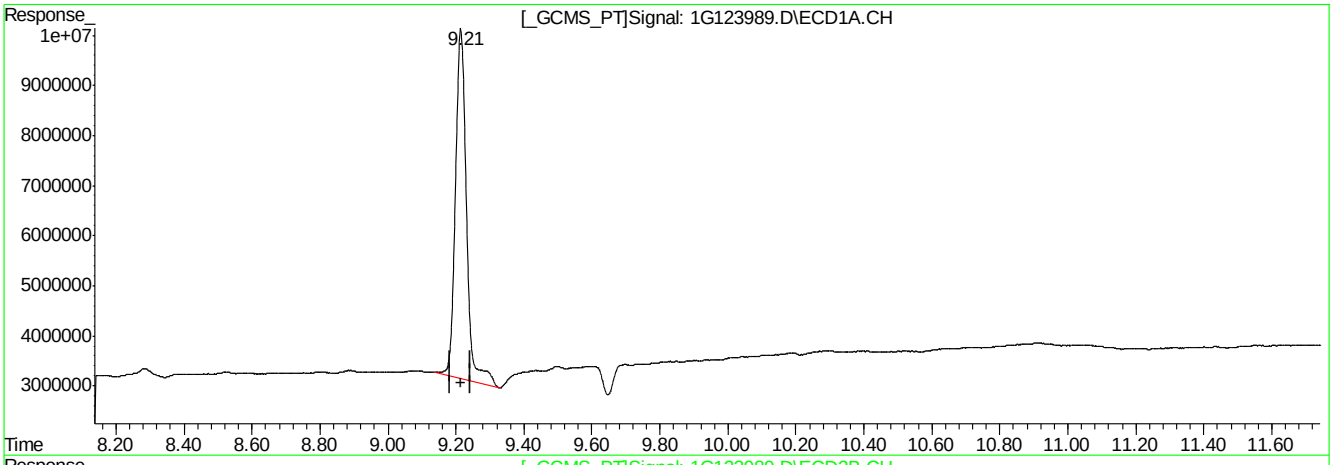
1G123989.D 1PST3988.M Mon Jun 13 14:15:45 2016 RPT1

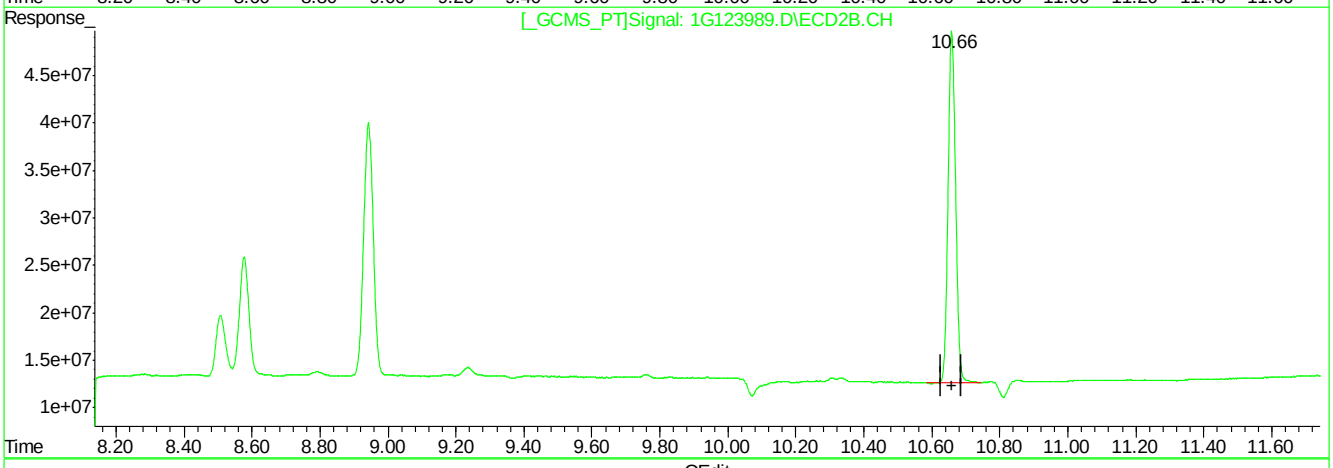
11.4.4.3 11

Quantitation Report (Qedit)

```
Signal #1 : C:\MSDCHEM\1\DATA\1G4005\1G123989.D\ECD1A.CH Vial: 38
Signal #2 : C:\MSDCHEM\1\DATA\1G4005\1G123989.D\ECD2B.CH
Acq On    : 6-8-16 07:09:12 AM                      Operator: dharas
Sample    : op94442-msd                             Inst    : GC1G
Misc      : op94442,g1g4005,16.0,,,10,1             Multiplr: 1.00
IntFile Signal #1: autoint1.e     IntFile Signal #2: autoint2.e
Quant Time: Jun 13 14:15 2016  Quant Results File: 1PST3988.RES

Method       : C:\MSDCHEM\1\METHODS\1PST3988.M (Chemstation Integrator)
Title        : PEST/PCB
Last Update  : Mon Jun 13 14:13:50 2016
Response via : Multiple Level Calibration
```





QEdit

(24) Decachlorobiphenyl (SA)

9.21min 33.375PPB

response 158994666

(24) Decachlorobiphenyl #2 (SA)

10.66min 36.261PPB

response 560656286

(+) = Expected Retention Time

1G123989.D 1PST3988.M Mon Jun 13 14:15:54 2016 RPT1

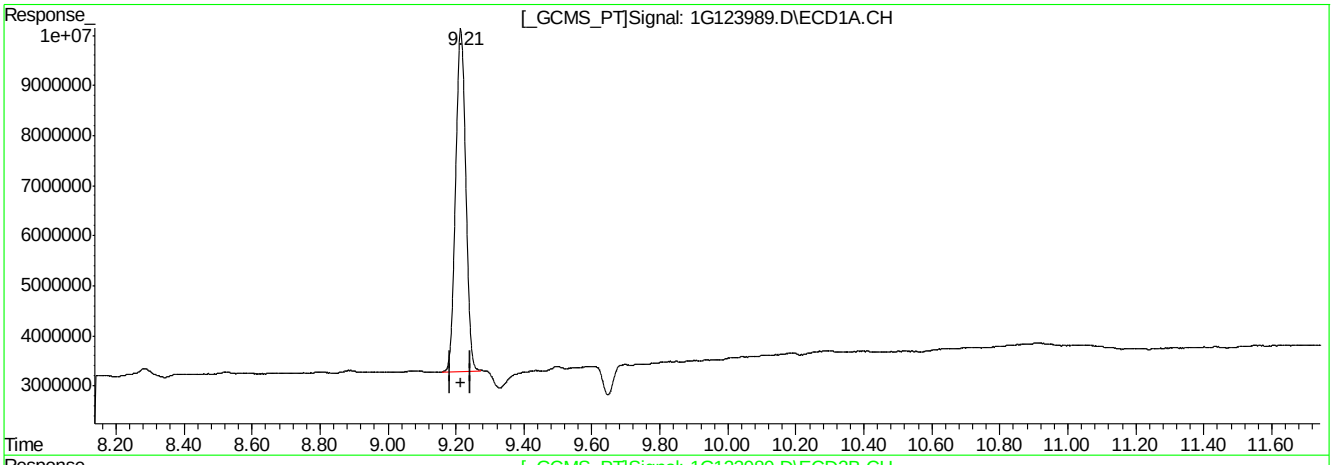
11.4.4.4

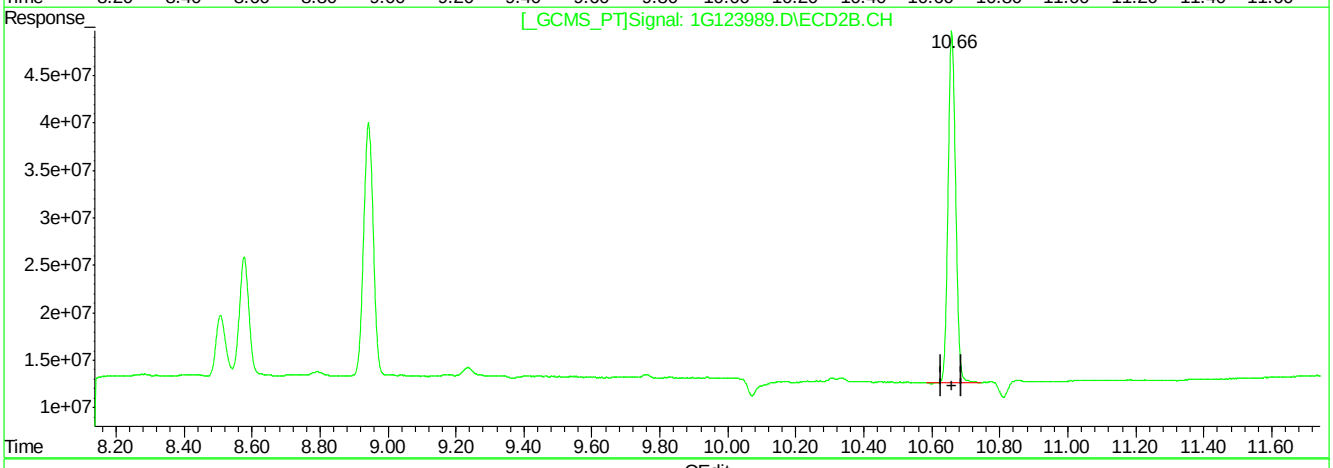
11

Quantitation Report (Qedit)

```
Signal #1 : C:\MSDCHEM\1\DATA\1G4005\1G123989.D\ECD1A.CH Vial: 38
Signal #2 : C:\MSDCHEM\1\DATA\1G4005\1G123989.D\ECD2B.CH
Acq On    : 6-8-16 07:09:12 AM                      Operator: dharas
Sample    : op94442-msd                             Inst    : GC1G
Misc      : op94442,g1g4005,16.0,,,10,1             Multiplr: 1.00
IntFile Signal #1: autoint1.e     IntFile Signal #2: autoint2.e
Quant Time: Jun 13 14:15 2016  Quant Results File: 1PST3988.RES

Method       : C:\MSDCHEM\1\METHODS\1PST3988.M (Chemstation Integrator)
Title        : PEST/PCB
Last Update  : Mon Jun 13 14:13:50 2016
Response via : Multiple Level Calibration
```





QEdit

(24) Decachlorobiphenyl (SA)

9.21min 30.024PPB m

response 143031563

(24) Decachlorobiphenyl #2 (SA)

10.66min 36.261PPB

response 560656286

(+) = Expected Retention Time

1G123989.D 1PST3988.M Mon Jun 13 14:16:02 2016 RPT1

Manual Integrations APPROVED (compounds with "m" flag)
Gwendolyn Burns
05/16/16 17:43

Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\1G3988\1G123059.D\ECD1A.CH Vial: 1
Signal #2 : C:\MSDCHEM\1\DATA\1G3988\1G123059.D\ECD2B.CH
Acq On : 5-16-16 09:09:02 AM Operator: rebeccak
Sample : ddt Inst : GC1G
Misc : op93854,g1g3988,930,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: May 16 13:05 2016 Quant Results File: 1PST3988.RES

Quant Method : C:\MSDCHEM\1\METHODS\1PST3988.M (Chemstation Integrator)
Title : PEST/PCB
Last Update : Mon May 16 09:01:14 2016
Response via : Initial Calibration
DataAcq Meth : 1PST3985.M

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.50um Signal #2 Info : 30m x .32mm x .25um

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	Internal Standards						
1) I	1-bromo-2-nitrob	1.33	1.49	121.1E6	841.9E6	50.000	50.000
25) I	1-bromo-2-nitrob	1.33	1.49	121.1E6	841.9E6	50.000	50.000
31) I	1-bromo-2-nitrob	1.33	1.49	121.1E6	841.9E6	50.000	50.000
	System Monitoring Compounds						
2) SAB	Tetrachloro-m-xy	1.92	2.29	43640483	307.2E6	22.875	22.147
Spiked Amount	40.000	Range	30 - 150	Recovery	=	57.19%	55.37%
24) SA	Decachlorobiphen	9.23	10.68	60882083	222.9E6	22.606	22.898
Spiked Amount	40.000			Recovery	=	56.52%	57.25%
	Target Compounds						
13) B	4,4'-DDE	4.67	5.90	837634	4492810	0.315m	0.310m
15) MA	Endrin	5.39	6.64	129.2E6	661.1E6	52.441	57.352
16) A	4,4'-DDD	5.50	6.83	1011043	7386221	0.468m	0.586m
18) MA	4,4'-DDT	5.92	7.36	267.8E6	1336.8E6	113.949	118.863
19) B	Endrin Aldehyde	6.34	7.55	1371237	7932699	0.719m	0.779m
23) B	Endrin Ketone	7.45	8.97	6408544	33500252	2.819	2.736

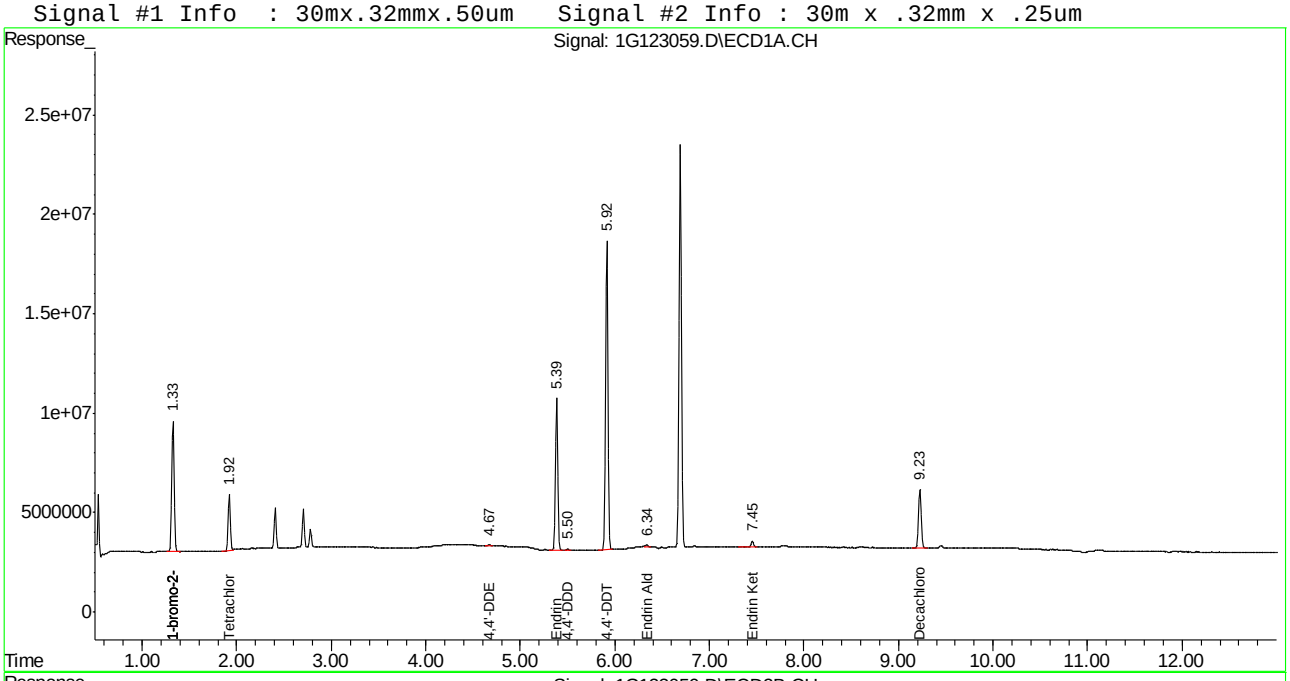
(f)=RT Delta > 1/2 Window (m)=manual int.
1G123059.D 1PST3988.M Mon May 16 15:17:21 2016 RPT1

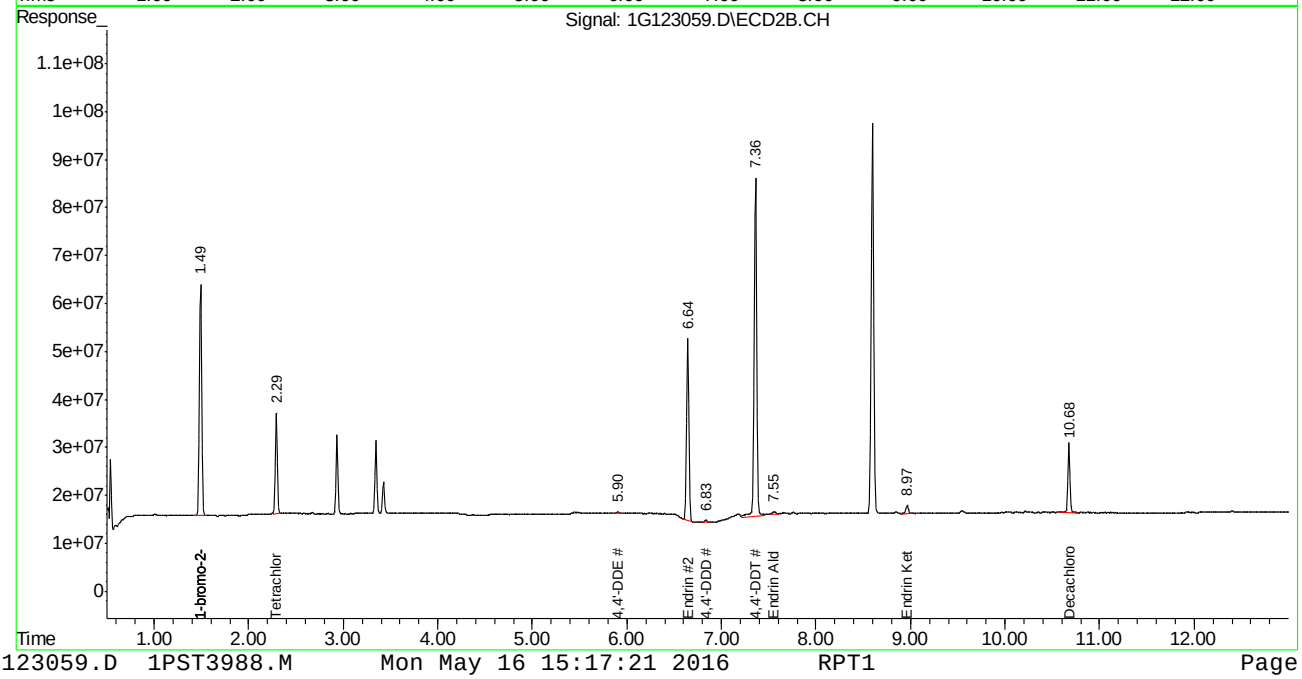
Quantitation Report (QT Reviewed)

```
Signal #1 : C:\MSDCHEM\1\DATA\1G3988\1G123059.D\ECD1A.CH Vial: 1
Signal #2 : C:\MSDCHEM\1\DATA\1G3988\1G123059.D\ECD2B.CH
Acq On    : 5-16-16 09:09:02 AM                    Operator: rebeccak
Sample    : ddt                                    Inst    : GC1G
Misc      : op93854,g1g3988,930,,,10,1             Multiplr: 1.00
IntFile Signal #1: autoint1.e     IntFile Signal #2: autoint2.e
Quant Time: May 16 13:05 2016  Quant Results File: 1PST3988.RES

Quant Method : C:\MSDCHEM\1\METHODS\1PST3988.M (Chemstation Integrator)
Title        : PEST/PCB
Last Update  : Mon May 16 09:01:14 2016
Response via : Multiple Level Calibration
DataAcq Meth : 1PST3985.M

Volume Inj.     : 1ul/column
Signal #1 Phase : RTXCLP I          Signal #2 Phase: RTX-CLP II
Signal #1 Info  : 30mx.32mmx.50um   Signal #2 Info : 30m x .32mm x .25um
```





Manual Integration Approval Summary

Sample Number:	G1G3988-DDT	**Method:**	SW846 8081B
Lab FileID:	1G123059.D	**Analyst approved:**	05/16/16 15:18 Dhara Saparia
Injection Time:	05/16/16 09:09	**Supervisor approved:**	05/16/16 17:43 Gwendolyn Burns

Parameter	CAS	Sig#	R.T. (min.)	Reason
4,4'-DDE	72-55-9	1	4.67	Poor instrument integration
4,4'-DDD	72-54-8	1	5.50	Poor instrument integration
4,4'-DDE	72-55-9	2	5.90	Poor instrument integration
Endrin aldehyde	7421-93-4	1	6.34	Poor instrument integration
4,4'-DDD	72-54-8	2	6.83	Poor instrument integration
Endrin aldehyde	7421-93-4	2	7.55	Poor instrument integration

Manual Integrations APPROVED (compounds with "m" flag)
Gwendolyn Burns
06/03/16 14:12

Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\1G4003\1G123816.D\ECD1A.CH Vial: 1
Signal #2 : C:\MSDCHEM\1\DATA\1G4003\1G123816.D\ECD2B.CH
Acq On : 6-3-16 09:39:32 AM Operator: kristend
Sample : ddt Inst : GC1G
Misc : op94273,g1g4003,16.9,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: Jun 3 10:05 2016 Quant Results File: 1PST3988.RES

Quant Method : C:\MSDCHEM\1\METHODS\1PST3988.M (Chemstation Integrator)
Title : PEST/PCB
Last Update : Thu Jun 02 13:15:36 2016
Response via : Initial Calibration
DataAcq Meth : 1PST3988.M

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.50um Signal #2 Info : 30m x .32mm x .25um

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	Internal Standards						
1) I	1-bromo-2-nitrob	1.33	1.49	168.7E6	1099.7E6	50.000	50.000
25) I	1-bromo-2-nitrob	1.33	1.49	168.7E6	1099.7E6	50.000	50.000
31) I	1-bromo-2-nitrob	1.33	1.49	168.7E6	1099.7E6	50.000	50.000
	System Monitoring Compounds						
2) SAB	Tetrachloro-m-xy	1.92	2.29	57082412	357.7E6	18.720	18.284
Spiked Amount	40.000	Range	30 - 150	Recovery	=	46.80%	45.71%
24) SA	Decachlorobiphen	9.21	10.66	79684030	287.1E6	19.221	20.889
Spiked Amount	40.000			Recovery	=	48.05%	52.22%
	Target Compounds						
13) B	4,4'-DDE	4.66	5.88	3209301	23119091	0.837m	1.137m
15) MA	Endrin	5.37	6.62	176.7E6	922.6E6	51.161	49.404
16) A	4,4'-DDD	5.49	6.82	2949746	18455095	0.979m	1.103m
18) MA	4,4'-DDT	5.91	7.34	331.4E6	1592.9E6	101.000	96.977
19) B	Endrin Aldehyde	6.33	7.53	1638242	9426789	0.573m	0.643m
23) B	Endrin Ketone	7.44	8.94	6719943	36642723	1.709m	1.954m

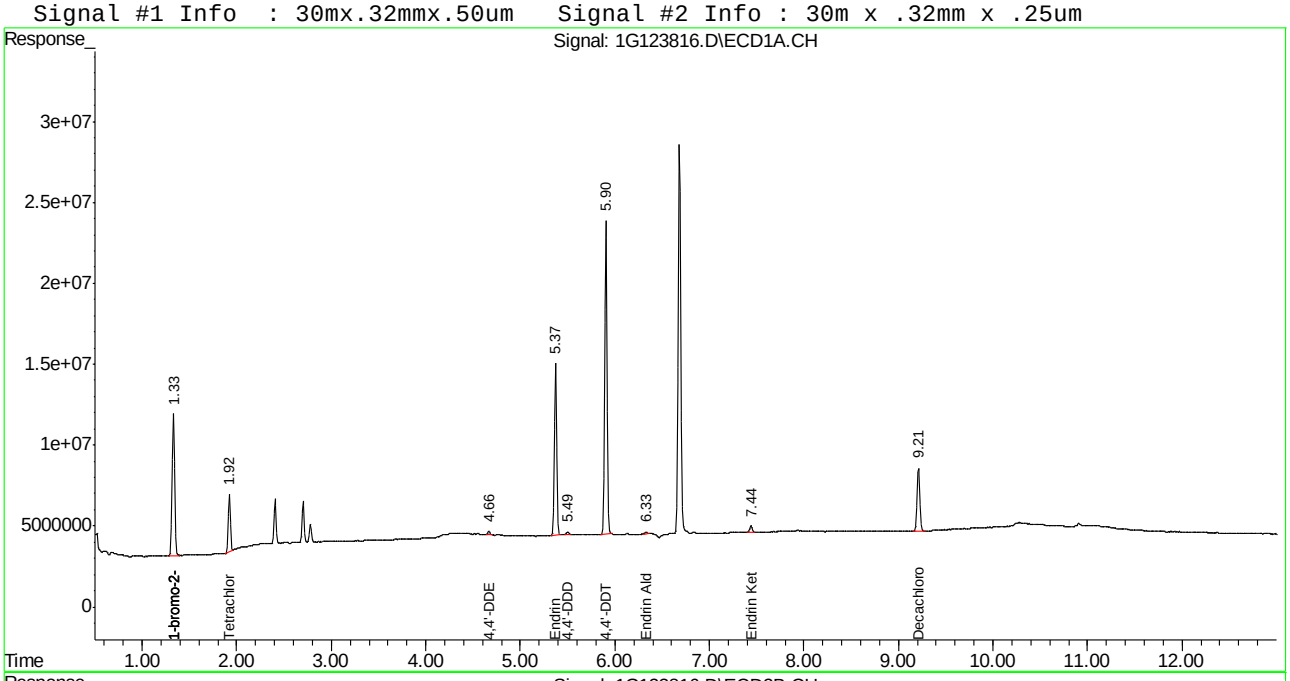
(f)=RT Delta > 1/2 Window (m)=manual int.
1G123816.D 1PST3988.M Fri Jun 03 10:05:33 2016 RPT1 Page 1

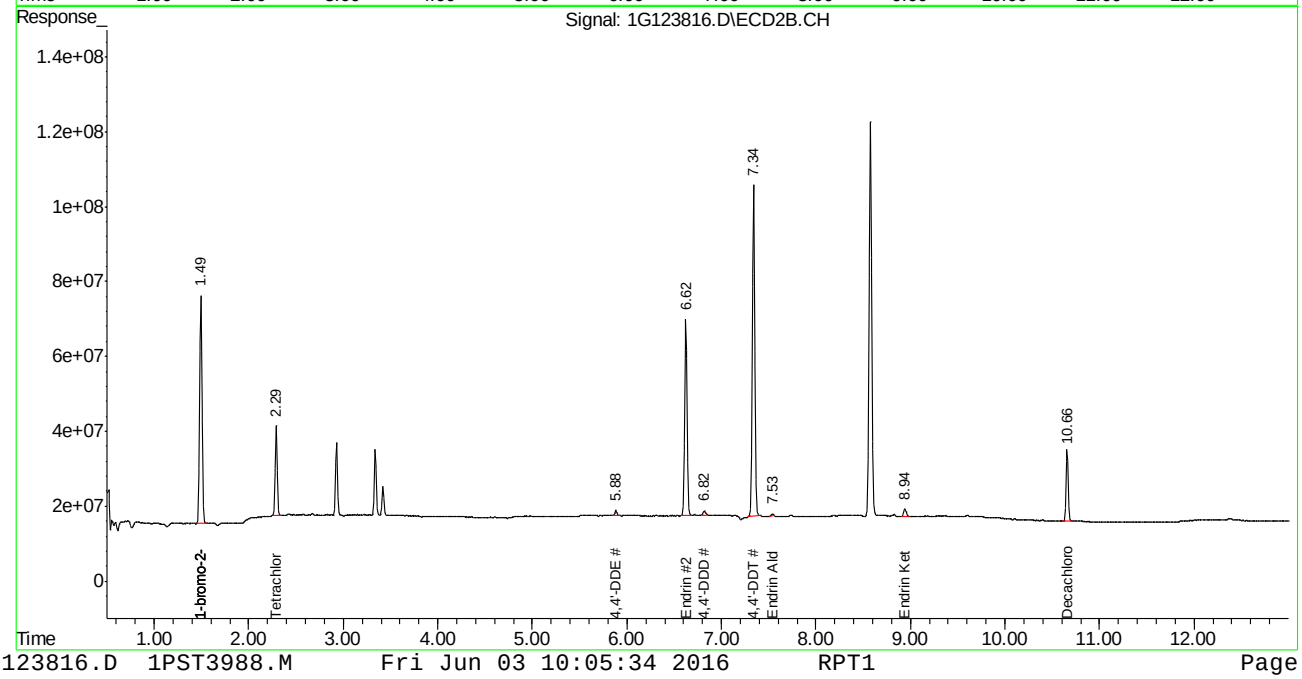
Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\1G4003\1G123816.D\ECD1A.CH Vial: 1
Signal #2 : C:\MSDCHEM\1\DATA\1G4003\1G123816.D\ECD2B.CH
Acq On : 6-3-16 09:39:32 AM Operator: kristend
Sample : ddt Inst : GC1G
Misc : op94273,g1g4003,16.9,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: Jun 3 10:05 2016 Quant Results File: 1PST3988.RES

Quant Method : C:\MSDCHEM\1\METHODS\1PST3988.M (Chemstation Integrator)
Title : PEST/PCB
Last Update : Thu Jun 02 13:15:36 2016
Response via : Multiple Level Calibration
DataAcq Meth : 1PST3988.M

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.50um Signal #2 Info : 30m x .32mm x .25um





SGS ACCUTEST JC21347

Manual Integration Approval Summary

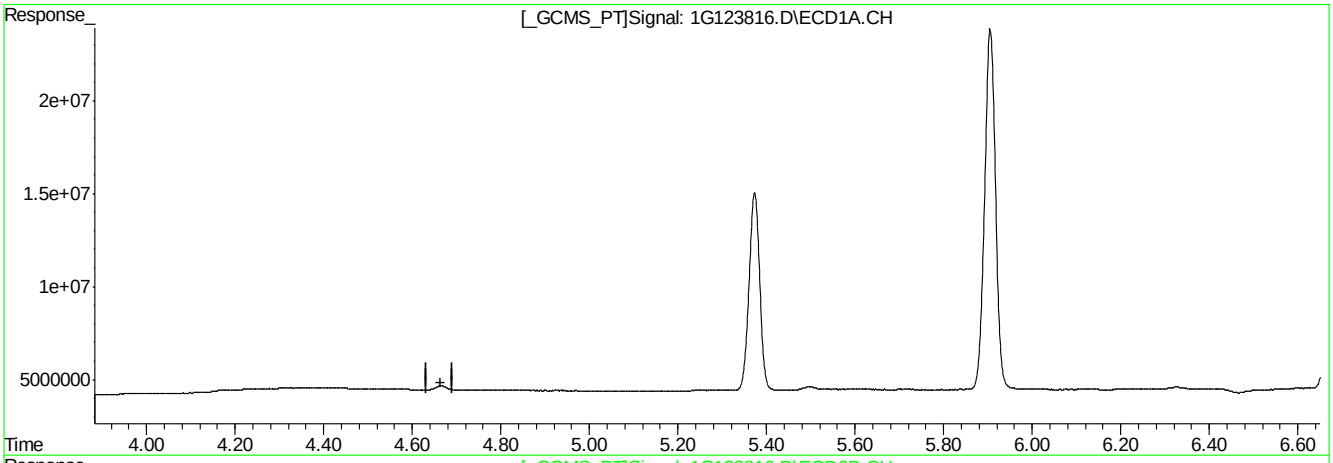
Sample Number:	G1G4003-DDT	**Method:**	SW846 8081B
Lab FileID:	1G123816.D	**Analyst approved:**	06/03/16 10:39 Kristen Drake
Injection Time:	06/03/16 09:39	**Supervisor approved:**	06/03/16 14:12 Gwendolyn Burns

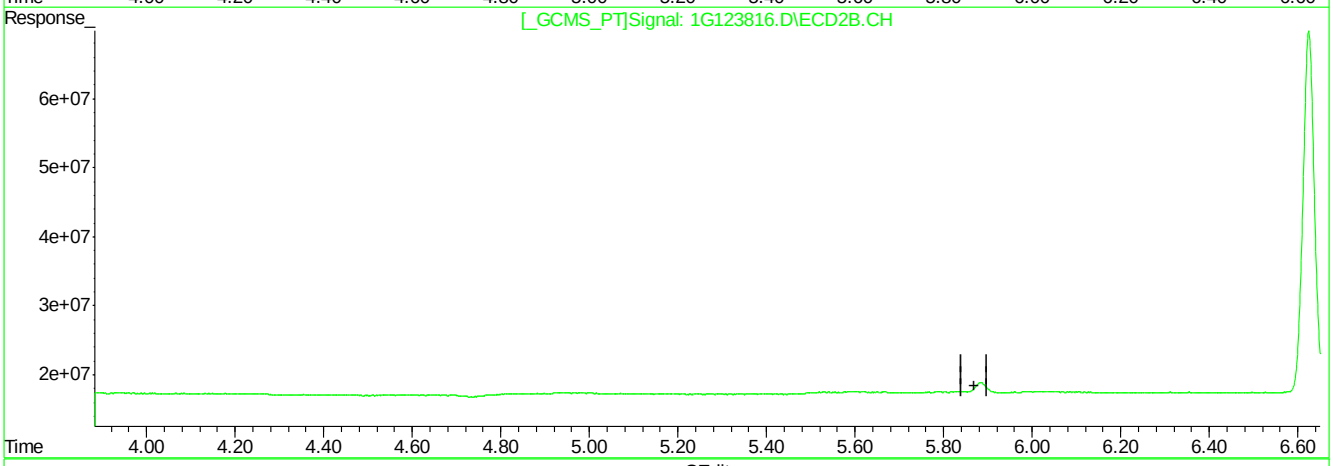
Parameter	CAS	Sig#	R.T. (min.)	Reason
4,4'-DDE	72-55-9	1	4.66	Poorly defined baseline
4,4'-DDD	72-54-8	1	5.49	Poorly defined baseline
4,4'-DDE	72-55-9	2	5.88	Poorly defined baseline
Endrin aldehyde	7421-93-4	1	6.33	Poorly defined baseline
4,4'-DDD	72-54-8	2	6.82	Poorly defined baseline
Endrin ketone	53494-70-5	1	7.44	Poorly defined baseline
Endrin aldehyde	7421-93-4	2	7.53	Poorly defined baseline
Endrin ketone	53494-70-5	2	8.94	Poorly defined baseline

Quantitation Report (Qedit)

```
Signal #1 : C:\MSDCHEM\1\DATA\1G4003\1G123816.D\ECD1A.CH Vial: 1
Signal #2 : C:\MSDCHEM\1\DATA\1G4003\1G123816.D\ECD2B.CH
Acq On    : 6-3-16 09:39:32 AM                      Operator: kristend
Sample    : ddt                                     Inst    : GC1G
Misc      : op94273,g1g4003,16.9,,,10,1             Multiplr: 1.00
IntFile Signal #1: autoint1.e     IntFile Signal #2: autoint2.e
Quant Time: Jun  3 10:01 2016  Quant Results File: 1PST3988.RES


Method       : C:\MSDCHEM\1\METHODS\1PST3988.M (Chemstation Integrator)
Title        : PEST/PCB
Last Update  : Thu Jun 02 13:15:36 2016
Response via : Multiple Level Calibration
```





QEdit

(13) 4,4'-DDE (B)

0.00min 0.000PPB

response 0

(13) 4,4'-DDE #2 (B)

0.00min 0.000PPB

response 0

(+) = Expected Retention Time

1G123816.D 1PST3988.M Fri Jun 03 10:01:50 2016 RPT1

11.5.2.2

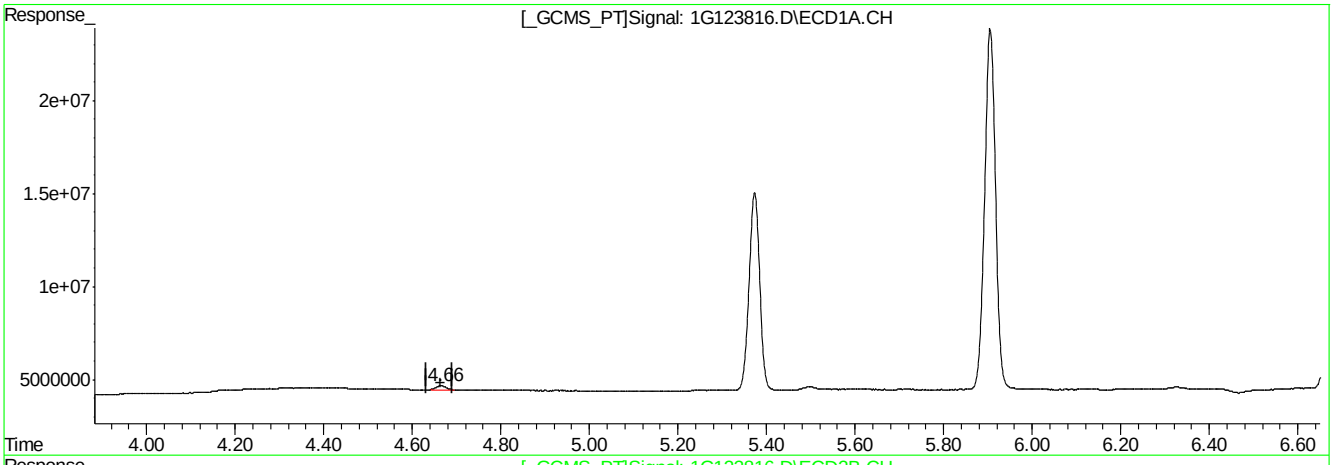
11

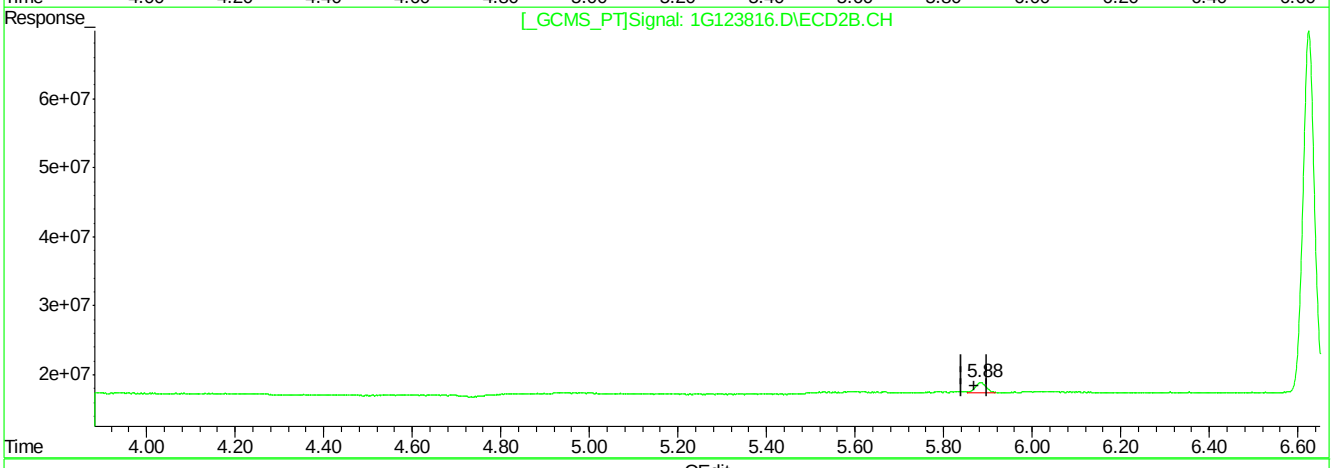
SGS ACCUTEST JC21347

Quantitation Report (Qedit)

```
Signal #1 : C:\MSDCHEM\1\DATA\1G4003\1G123816.D\ECD1A.CH Vial: 1
Signal #2 : C:\MSDCHEM\1\DATA\1G4003\1G123816.D\ECD2B.CH
Acq On    : 6-3-16 09:39:32 AM                      Operator: kristend
Sample    : ddt                                     Inst    : GC1G
Misc      : op94273,g1g4003,16.9,,,10,1             Multiplr: 1.00
IntFile Signal #1: autoint1.e     IntFile Signal #2: autoint2.e
Quant Time: Jun  3 10:01 2016  Quant Results File: 1PST3988.RES


Method       : C:\MSDCHEM\1\METHODS\1PST3988.M (Chemstation Integrator)
Title        : PEST/PCB
Last Update  : Thu Jun 02 13:15:36 2016
Response via : Multiple Level Calibration
```





QEdit

(13) 4,4'-DDE (B)

4.66min 0.837PPB m

response 3209301

(13) 4,4'-DDE #2 (B)

5.88min 1.137PPB m

response 23119091

(+) = Expected Retention Time

1G123816.D 1PST3988.M Fri Jun 03 10:02:22 2016 RPT1

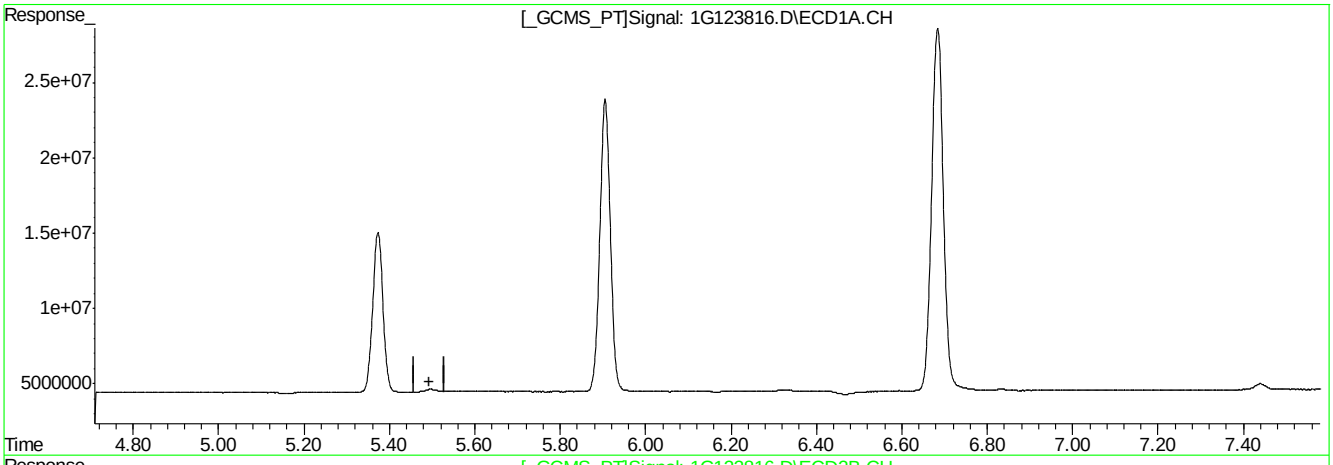
11.5.2.3 11

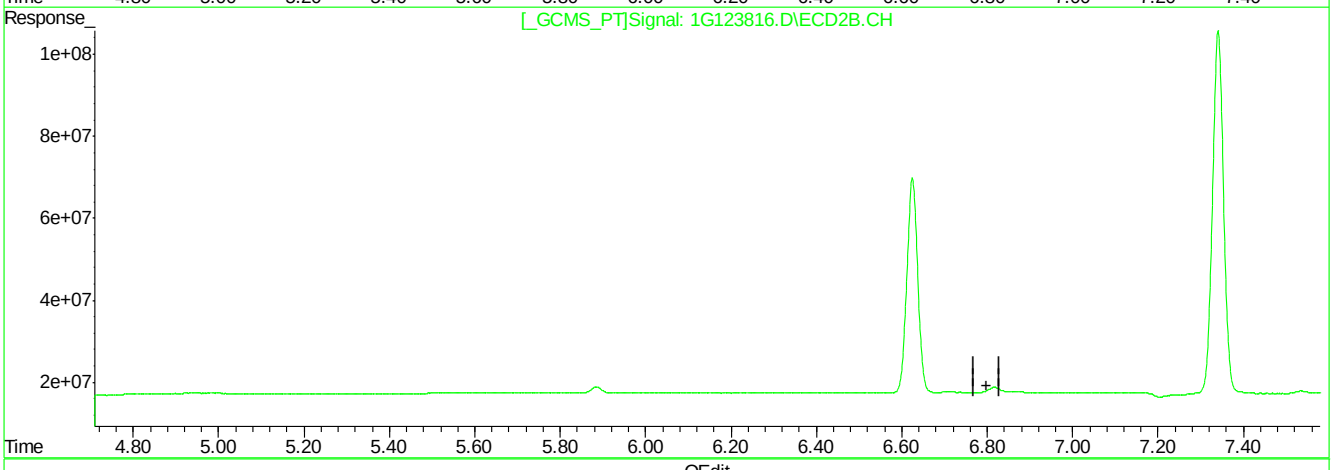
SGS ACCUTEST JC21347

Quantitation Report (Qedit)

```
Signal #1 : C:\MSDCHEM\1\DATA\1G4003\1G123816.D\ECD1A.CH Vial: 1
Signal #2 : C:\MSDCHEM\1\DATA\1G4003\1G123816.D\ECD2B.CH
Acq On    : 6-3-16 09:39:32 AM                      Operator: kristend
Sample    : ddt                                     Inst    : GC1G
Misc      : op94273,g1g4003,16.9,,,10,1             Multiplr: 1.00
IntFile Signal #1: autoint1.e     IntFile Signal #2: autoint2.e
Quant Time: Jun  3 10:01 2016  Quant Results File: 1PST3988.RES


Method       : C:\MSDCHEM\1\METHODS\1PST3988.M (Chemstation Integrator)
Title        : PEST/PCB
Last Update  : Thu Jun 02 13:15:36 2016
Response via : Multiple Level Calibration
```





QEdit

(16) 4,4'-DDD (A)

0.00min 0.000PPB

response 0

(16) 4,4'-DDD #2 (A)

0.00min 0.000PPB

response 0

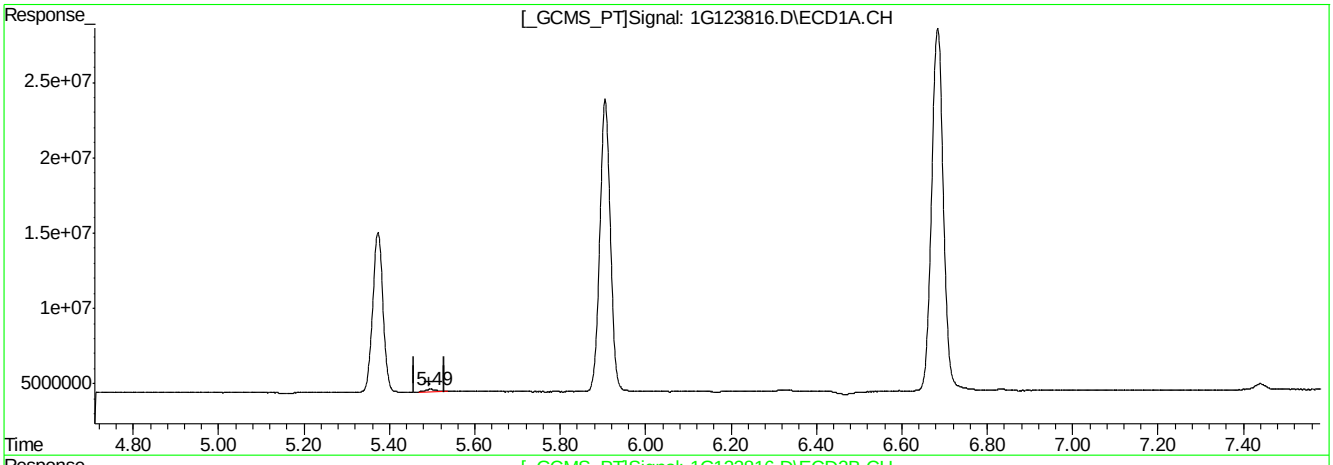
(+) = Expected Retention Time

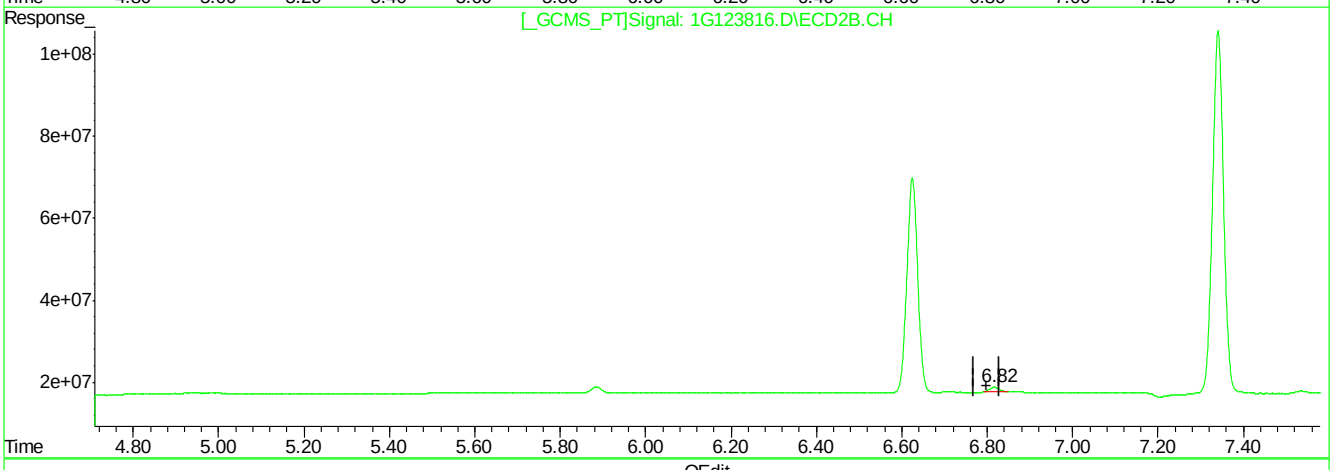
1G123816.D 1PST3988.M Fri Jun 03 10:02:31 2016 RPT1

Quantitation Report (Qedit)

```
Signal #1 : C:\MSDCHEM\1\DATA\1G4003\1G123816.D\ECD1A.CH Vial: 1
Signal #2 : C:\MSDCHEM\1\DATA\1G4003\1G123816.D\ECD2B.CH
Acq On    : 6-3-16 09:39:32 AM                      Operator: kristend
Sample    : ddt                                     Inst    : GC1G
Misc      : op94273,g1g4003,16.9,,,10,1             Multiplr: 1.00
IntFile Signal #1: autoint1.e     IntFile Signal #2: autoint2.e
Quant Time: Jun  3 10:01 2016  Quant Results File: 1PST3988.RES


Method       : C:\MSDCHEM\1\METHODS\1PST3988.M (Chemstation Integrator)
Title        : PEST/PCB
Last Update  : Thu Jun 02 13:15:36 2016
Response via : Multiple Level Calibration
```





QEdit

(16) 4,4'-DDD (A)

5.49min 0.979PPB m

response 2949746

(16) 4,4'-DDD #2 (A)

6.82min 1.103PPB m

response 18455095

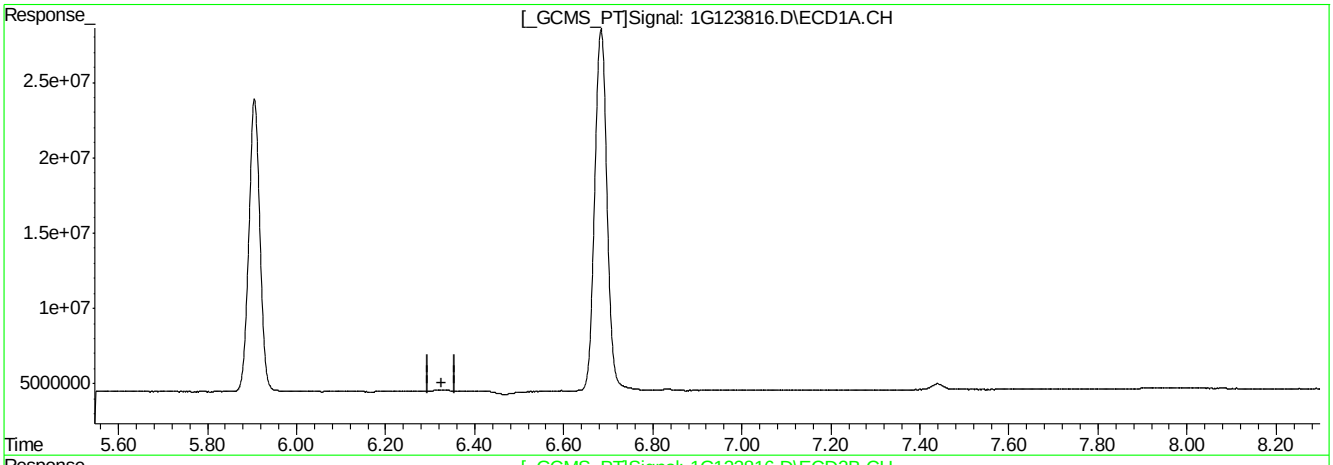
(+) = Expected Retention Time

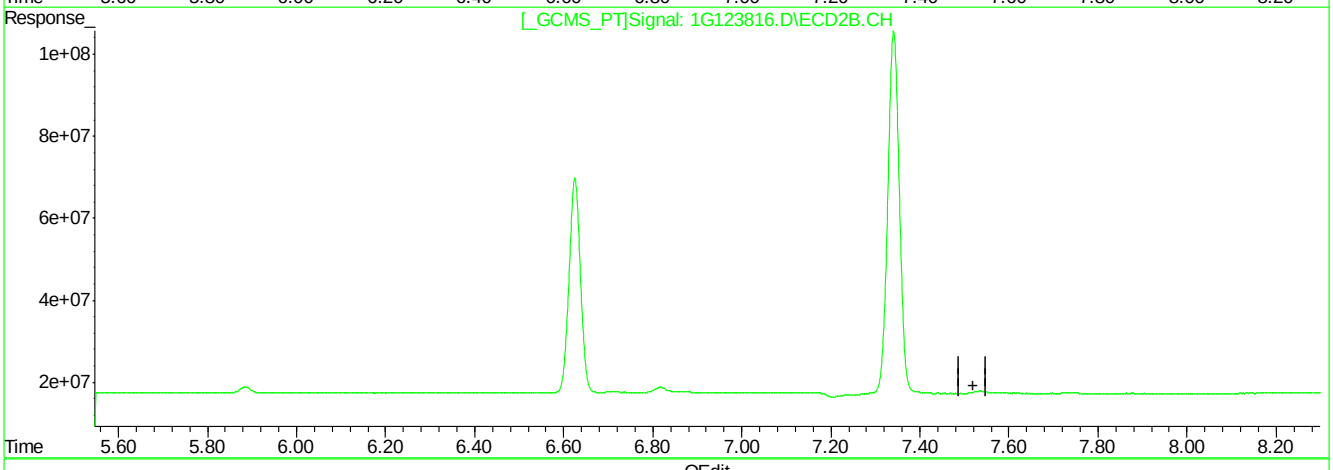
1G123816.D 1PST3988.M Fri Jun 03 10:03:29 2016 RPT1

Quantitation Report (Qedit)

```
Signal #1 : C:\MSDCHEM\1\DATA\1G4003\1G123816.D\ECD1A.CH Vial: 1
Signal #2 : C:\MSDCHEM\1\DATA\1G4003\1G123816.D\ECD2B.CH
Acq On    : 6-3-16 09:39:32 AM                      Operator: kristend
Sample    : ddt                                     Inst    : GC1G
Misc      : op94273,g1g4003,16.9,,,10,1             Multiplr: 1.00
IntFile Signal #1: autoint1.e     IntFile Signal #2: autoint2.e
Quant Time: Jun  3 10:01 2016  Quant Results File: 1PST3988.RES

Method       : C:\MSDCHEM\1\METHODS\1PST3988.M (Chemstation Integrator)
Title        : PEST/PCB
Last Update  : Thu Jun 02 13:15:36 2016
Response via : Multiple Level Calibration
```





QEdit

(19) Endrin Aldehyde (B)

0.00min 0.000PPB

response 0

(19) Endrin Aldehyde #2 (B)

0.00min 0.000PPB

response 0

(+) = Expected Retention Time

1G123816.D 1PST3988.M Fri Jun 03 10:03:38 2016 RPT1

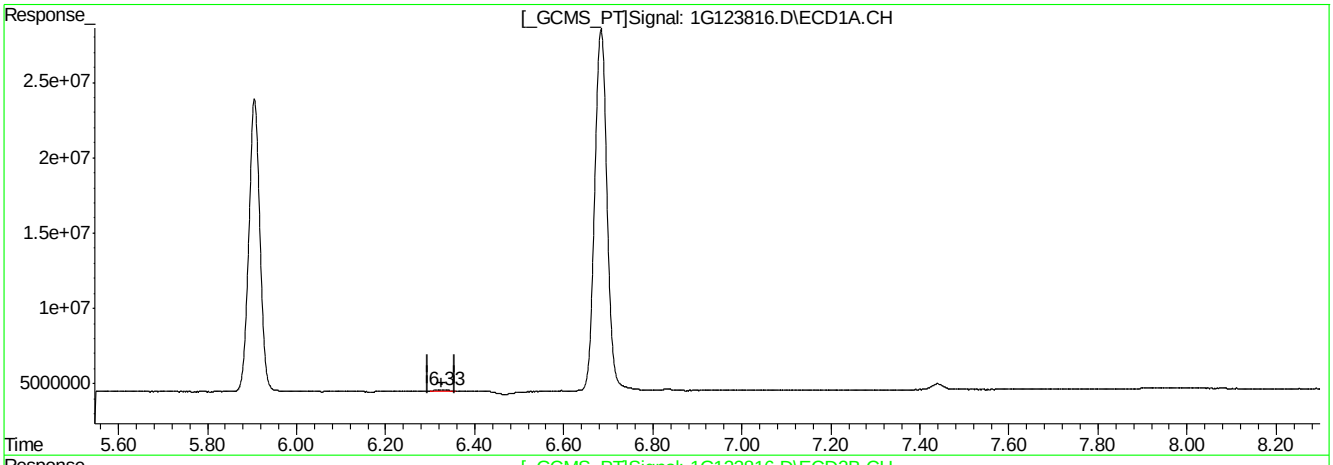
11.5.2.6

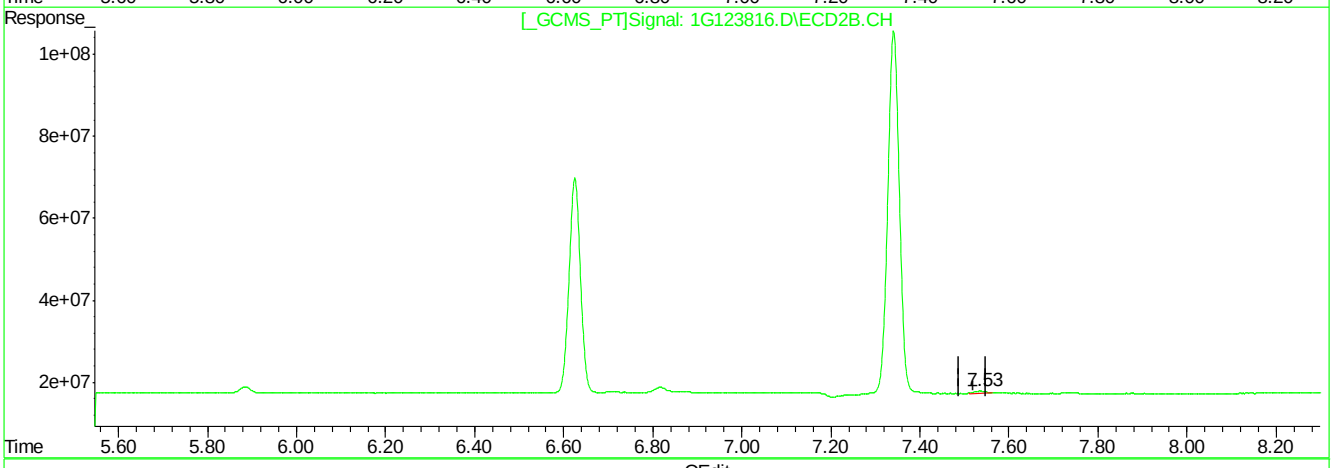
11

Quantitation Report (Qedit)

```
Signal #1 : C:\MSDCHEM\1\DATA\1G4003\1G123816.D\ECD1A.CH Vial: 1
Signal #2 : C:\MSDCHEM\1\DATA\1G4003\1G123816.D\ECD2B.CH
Acq On    : 6-3-16 09:39:32 AM                      Operator: kristend
Sample    : ddt                                     Inst    : GC1G
Misc      : op94273,g1g4003,16.9,,,10,1             Multiplr: 1.00
IntFile Signal #1: autoint1.e     IntFile Signal #2: autoint2.e
Quant Time: Jun  3 10:01 2016  Quant Results File: 1PST3988.RES

Method       : C:\MSDCHEM\1\METHODS\1PST3988.M (Chemstation Integrator)
Title        : PEST/PCB
Last Update  : Thu Jun 02 13:15:36 2016
Response via : Multiple Level Calibration
```





QEdit

(19) Endrin Aldehyde (B)

6.33min 0.573PPB m

response 1638242

(19) Endrin Aldehyde #2 (B)

7.53min 0.643PPB m

response 9426789

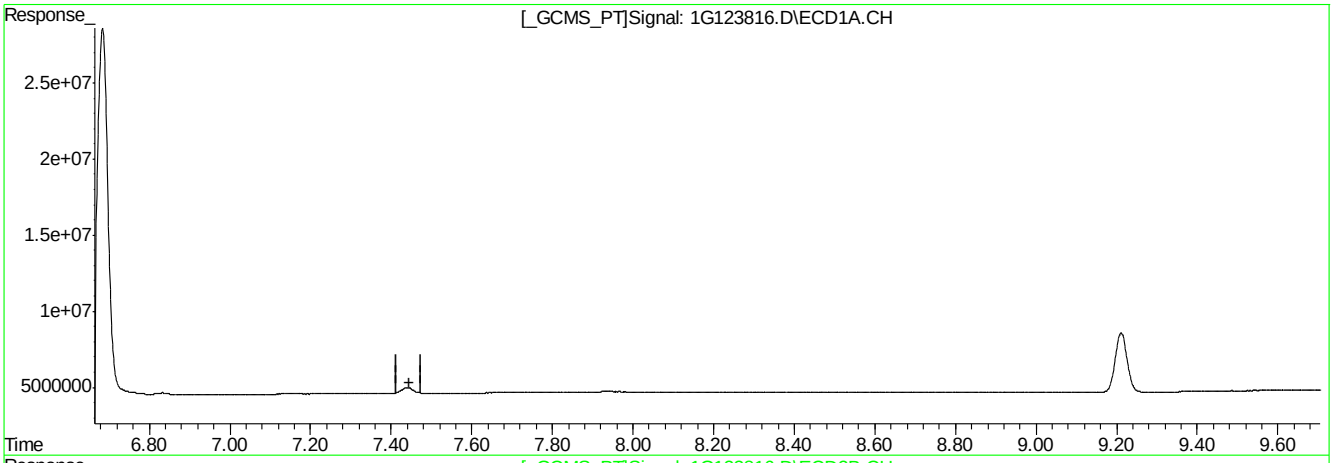
(+) = Expected Retention Time

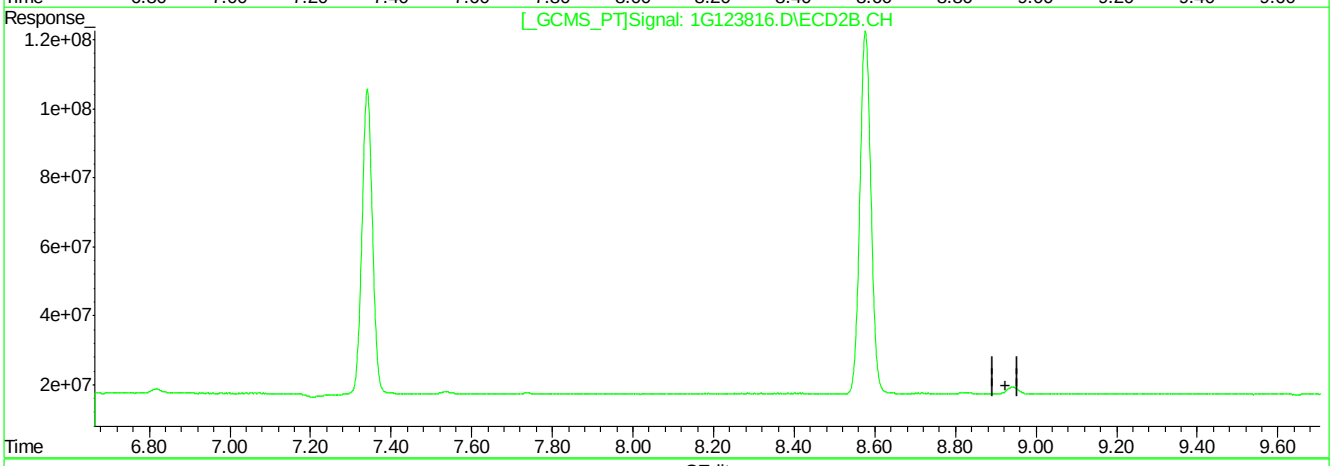
1G123816.D 1PST3988.M Fri Jun 03 10:04:00 2016 RPT1

Quantitation Report (Qedit)

```
Signal #1 : C:\MSDCHEM\1\DATA\1G4003\1G123816.D\ECD1A.CH Vial: 1
Signal #2 : C:\MSDCHEM\1\DATA\1G4003\1G123816.D\ECD2B.CH
Acq On    : 6-3-16 09:39:32 AM                      Operator: kristend
Sample    : ddt                                     Inst    : GC1G
Misc      : op94273,g1g4003,16.9,,,10,1             Multiplr: 1.00
IntFile Signal #1: autoint1.e     IntFile Signal #2: autoint2.e
Quant Time: Jun  3 10:01 2016  Quant Results File: 1PST3988.RES


Method       : C:\MSDCHEM\1\METHODS\1PST3988.M (Chemstation Integrator)
Title        : PEST/PCB
Last Update  : Thu Jun 02 13:15:36 2016
Response via : Multiple Level Calibration
```





QEdit

(23) Endrin Ketone (B)

0.00min 0.000PPB

response 0

(23) Endrin Ketone #2 (B)

0.00min 0.000PPB

response 0

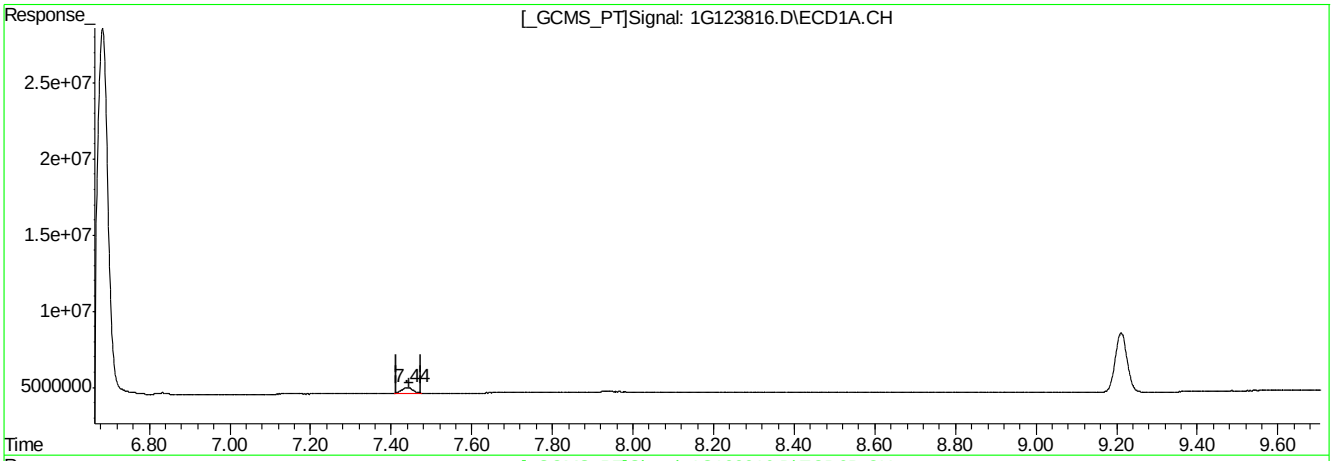
(+) = Expected Retention Time

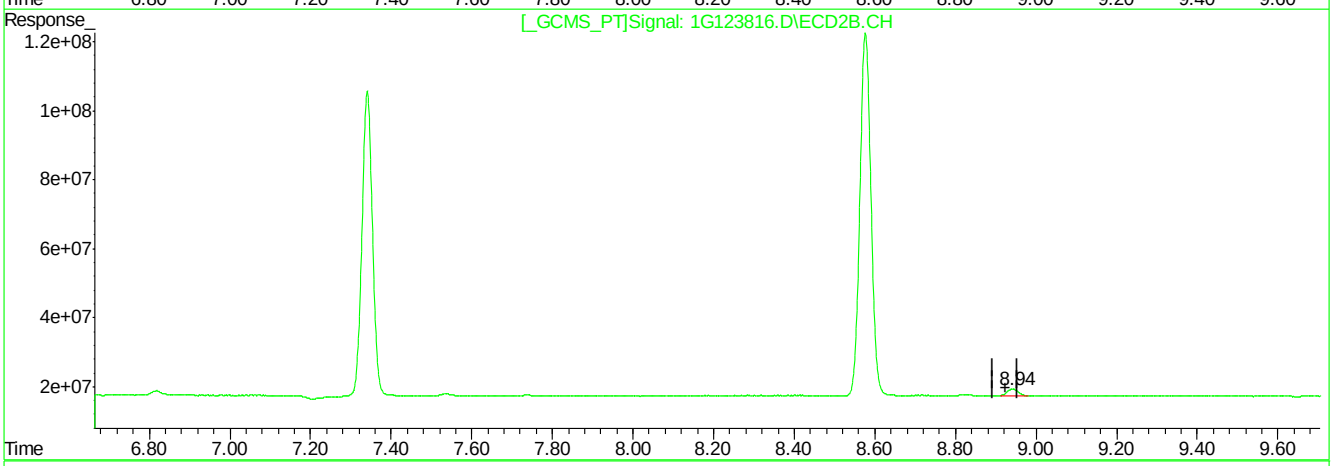
1G123816.D 1PST3988.M Fri Jun 03 10:04:14 2016 RPT1

Quantitation Report (Qedit)

```
Signal #1 : C:\MSDCHEM\1\DATA\1G4003\1G123816.D\ECD1A.CH Vial: 1
Signal #2 : C:\MSDCHEM\1\DATA\1G4003\1G123816.D\ECD2B.CH
Acq On    : 6-3-16 09:39:32 AM                      Operator: kristend
Sample    : ddt                                     Inst    : GC1G
Misc      : op94273,g1g4003,16.9,,,10,1             Multiplr: 1.00
IntFile Signal #1: autoint1.e     IntFile Signal #2: autoint2.e
Quant Time: Jun  3 10:01 2016  Quant Results File: 1PST3988.RES


Method       : C:\MSDCHEM\1\METHODS\1PST3988.M (Chemstation Integrator)
Title        : PEST/PCB
Last Update  : Thu Jun 02 13:15:36 2016
Response via : Multiple Level Calibration
```





QEdit

(23) Endrin Ketone (B)

7.44min 1.709PPB m

response 6719943

(23) Endrin Ketone #2 (B)

8.94min 1.954PPB m

response 36642723

(+) = Expected Retention Time

1G123816.D 1PST3988.M Fri Jun 03 10:04:59 2016 RPT1

11.5.2.9 11

Manual Integrations APPROVED (compounds with "m" flag)
Gwendolyn Burns 06/07/16 13:56

Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\1G4004\1G123881.D\ECD1A.CH Vial: 1
Signal #2 : C:\MSDCHEM\1\DATA\1G4004\1G123881.D\ECD2B.CH
Acq On : 6-6-16 05:34:35 PM Operator: dharas
Sample : ddt Inst : GC1G
Misc : op94478,g1g4004,300,,,2,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: Jun 7 11:47 2016 Quant Results File: 1PST3988.RES

Quant Method : C:\MSDCHEM\1\METHODS\1PST3988.M (Chemstation Integrator)
Title : PEST/PCB
Last Update : Thu Jun 02 13:15:36 2016
Response via : Initial Calibration
DataAcq Meth : 1PST3988.M

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.50um Signal #2 Info : 30m x .32mm x .25um

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	Internal Standards						
1) I	1-bromo-2-nitrob	1.32	1.49	152.7E6	995.7E6	50.000	50.000
25) I	1-bromo-2-nitrob	1.32	1.49	152.7E6	995.7E6	50.000	50.000
31) I	1-bromo-2-nitrob	1.32	1.49	152.7E6	995.7E6	50.000	50.000
	System Monitoring Compounds						
2) SAB	Tetrachloro-m-xy	1.92	2.29	51399740	339.5E6	18.627	19.164
Spiked Amount	40.000	Range	30 - 150	Recovery	=	46.57%	47.91%
24) SA	Decachlorobiphen	9.21	10.66	72899596	272.6E6	19.432	21.903
Spiked Amount	40.000			Recovery	=	48.58%	54.76%
	Target Compounds						
13) B	4,4'-DDE	4.66	5.88	2655736	18942755	0.765m	1.029m
15) MA	Endrin	5.37	6.62	154.6E6	842.4E6	49.455	49.823
16) A	4,4'-DDD	5.49	6.82	3865858	28290681	1.418m	1.867m
18) MA	4,4'-DDT	5.90	7.34	284.9E6	1428.2E6	95.965	96.033
19) B	Endrin Aldehyde	6.32	7.53	1396197	7707794	0.540m	0.580m
23) B	Endrin Ketone	7.44	8.94	6341223	33687743	1.782m	1.984m

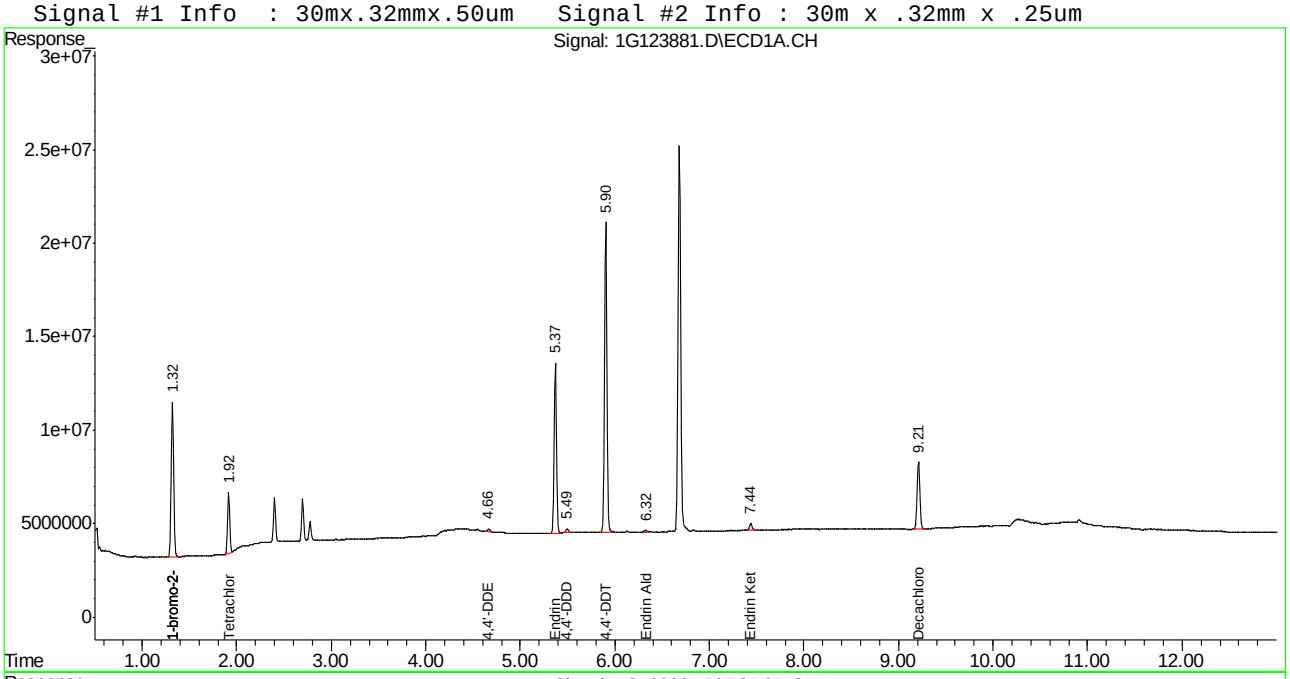
(f)=RT Delta > 1/2 Window (m)=manual int.
1G123881.D 1PST3988.M Tue Jun 07 11:47:30 2016 RPT1 Page 1

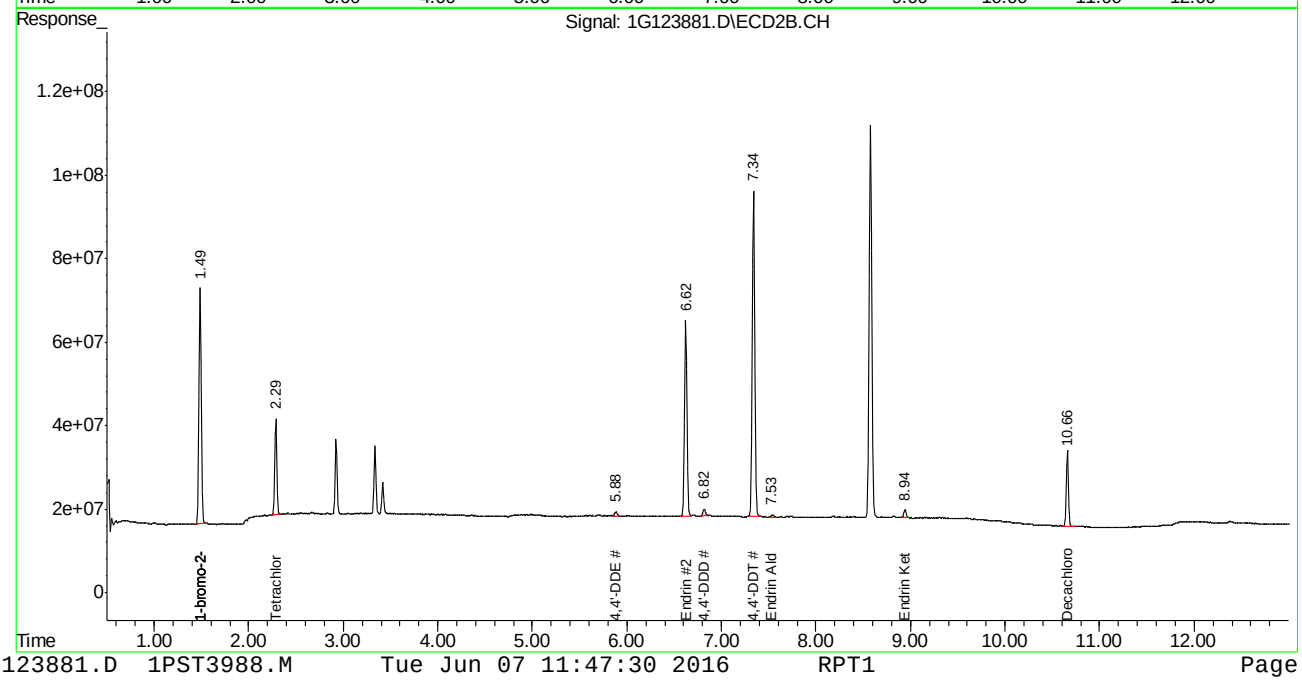
Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\1G4004\1G123881.D\ECD1A.CH Vial: 1
Signal #2 : C:\MSDCHEM\1\DATA\1G4004\1G123881.D\ECD2B.CH
Acq On : 6-6-16 05:34:35 PM Operator: dharas
Sample : ddt Inst : GC1G
Misc : op94478,g1g4004,300,,,2,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: Jun 7 11:47 2016 Quant Results File: 1PST3988.RES

Quant Method : C:\MSDCHEM\1\METHODS\1PST3988.M (Chemstation Integrator)
Title : PEST/PCB
Last Update : Thu Jun 02 13:15:36 2016
Response via : Multiple Level Calibration
DataAcq Meth : 1PST3988.M

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.50um Signal #2 Info : 30m x .32mm x .25um





SGS ACCUTEST JC21347

Manual Integration Approval Summary

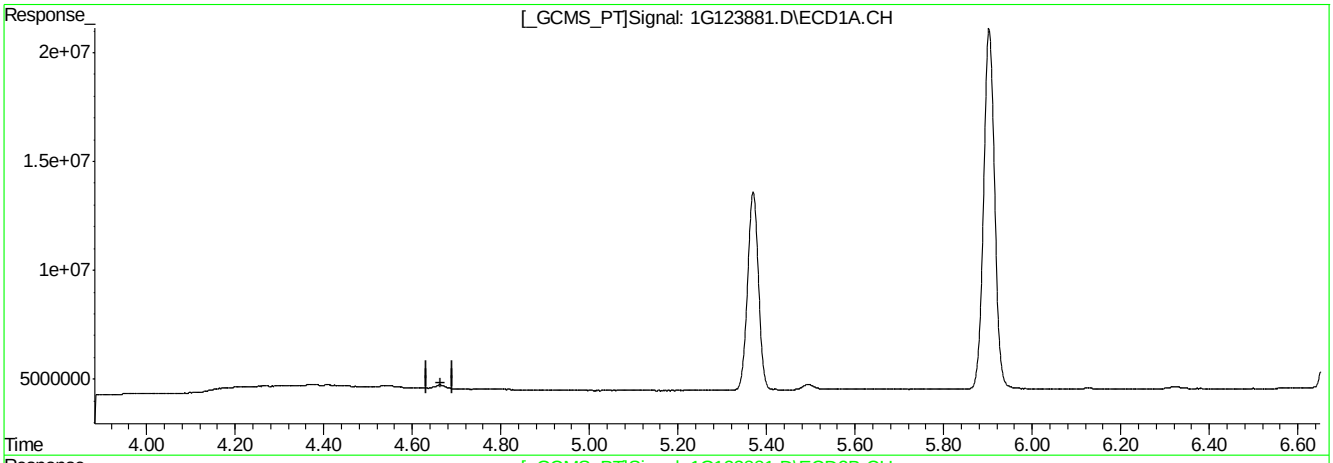
Sample Number:	G1G4004-DDT	**Method:**	SW846 8081B
Lab FileID:	1G123881.D	**Analyst approved:**	06/07/16 13:01 Kristen Drake
Injection Time:	06/06/16 17:34	**Supervisor approved:**	06/07/16 13:56 Gwendolyn Burns

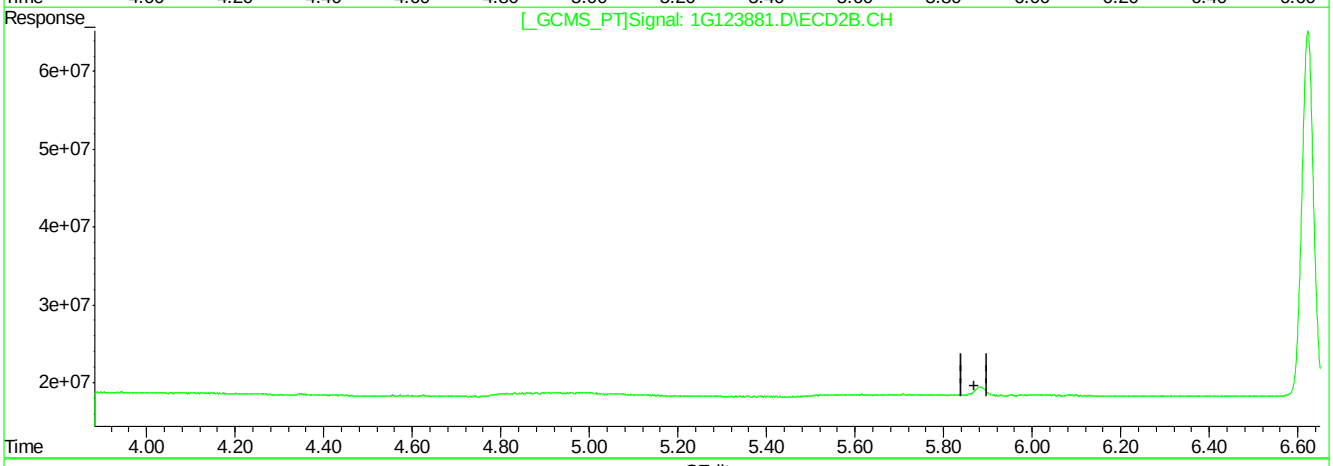
Parameter	CAS	Sig#	R.T. (min.)	Reason
4,4'-DDE	72-55-9	1	4.66	Poorly defined baseline
4,4'-DDD	72-54-8	1	5.49	Poorly defined baseline
4,4'-DDE	72-55-9	2	5.88	Poorly defined baseline
Endrin aldehyde	7421-93-4	1	6.32	Poorly defined baseline
4,4'-DDD	72-54-8	2	6.82	Poorly defined baseline
Endrin ketone	53494-70-5	1	7.44	Poorly defined baseline
Endrin aldehyde	7421-93-4	2	7.53	Poorly defined baseline
Endrin ketone	53494-70-5	2	8.94	Poorly defined baseline

Quantitation Report (Qedit)

```
Signal #1 : C:\MSDCHEM\1\DATA\1G4004\1G123881.D\ECD1A.CH Vial: 1
Signal #2 : C:\MSDCHEM\1\DATA\1G4004\1G123881.D\ECD2B.CH
Acq On    : 6-6-16 05:34:35 PM                      Operator: dharas
Sample    : ddt                                     Inst    : GC1G
Misc      : op94478,g1g4004,300,,,2,1               Multiplr: 1.00
IntFile Signal #1: autoint1.e     IntFile Signal #2: autoint2.e
Quant Time: Jun  7 11:44 2016  Quant Results File: 1PST3988.RES


Method       : C:\MSDCHEM\1\METHODS\1PST3988.M (Chemstation Integrator)
Title        : PEST/PCB
Last Update  : Thu Jun 02 13:15:36 2016
Response via : Multiple Level Calibration
```





QEdit

(13) 4,4'-DDE (B)

0.00min 0.000PPB

response 0

(13) 4,4'-DDE #2 (B)

0.00min 0.000PPB

response 0

(+) = Expected Retention Time

1G123881.D 1PST3988.M Tue Jun 07 11:45:13 2016 RPT1

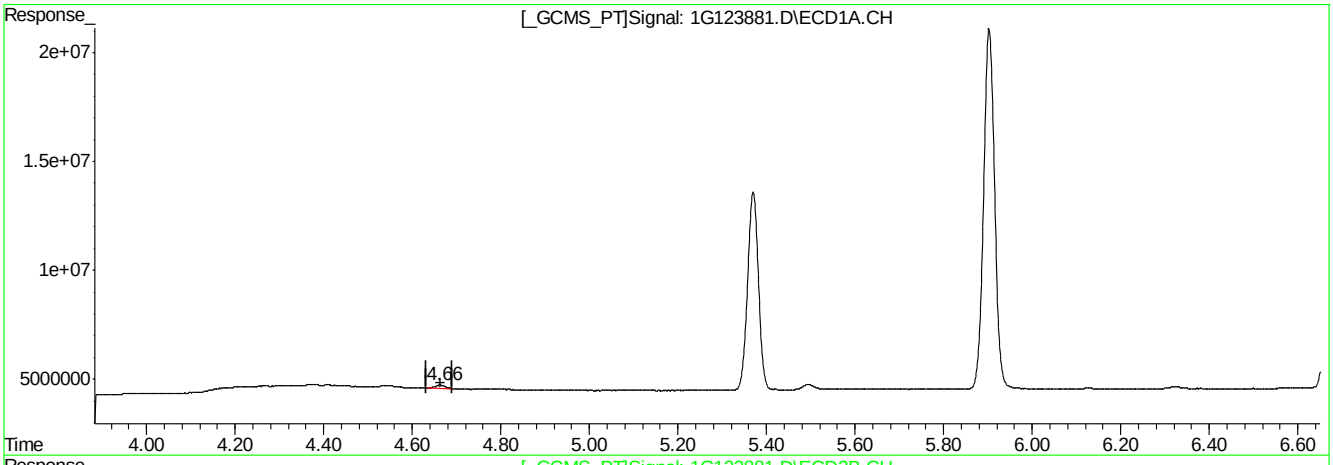
11.5.3.2

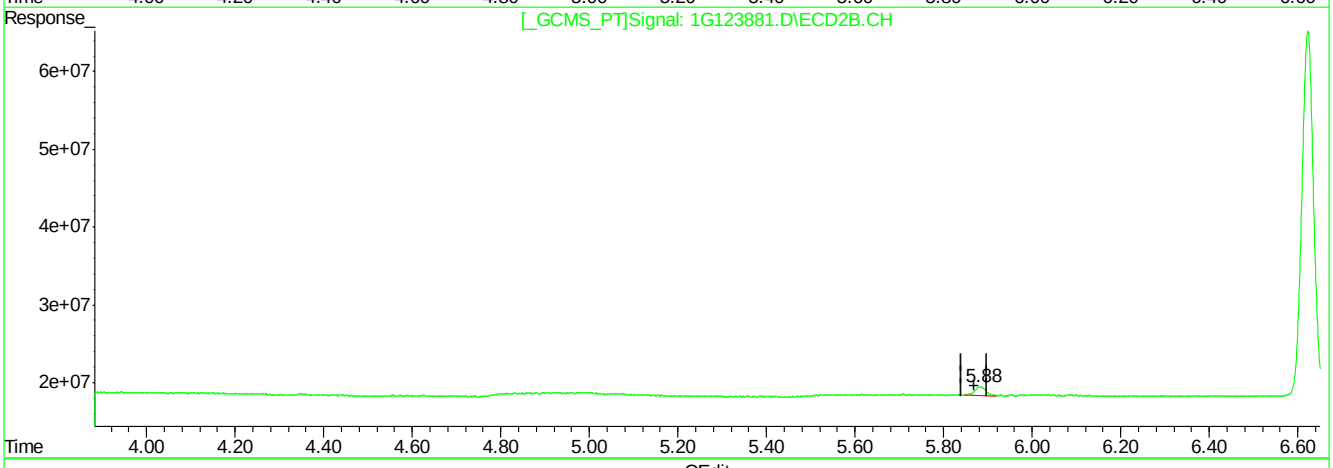
11

Quantitation Report (Qedit)

```
Signal #1 : C:\MSDCHEM\1\DATA\1G4004\1G123881.D\ECD1A.CH Vial: 1
Signal #2 : C:\MSDCHEM\1\DATA\1G4004\1G123881.D\ECD2B.CH
Acq On    : 6-6-16 05:34:35 PM                      Operator: dharas
Sample    : ddt                                     Inst    : GC1G
Misc      : op94478,g1g4004,300,,,2,1               Multiplr: 1.00
IntFile Signal #1: autoint1.e     IntFile Signal #2: autoint2.e
Quant Time: Jun  7 11:44 2016  Quant Results File: 1PST3988.RES

Method       : C:\MSDCHEM\1\METHODS\1PST3988.M (Chemstation Integrator)
Title        : PEST/PCB
Last Update  : Thu Jun 02 13:15:36 2016
Response via : Multiple Level Calibration
```





QEdit

(13) 4,4'-DDE (B)

4.66min 0.765PPB m

response 2655736

(13) 4,4'-DDE #2 (B)

5.88min 1.029PPB m

response 18942755

(+) = Expected Retention Time

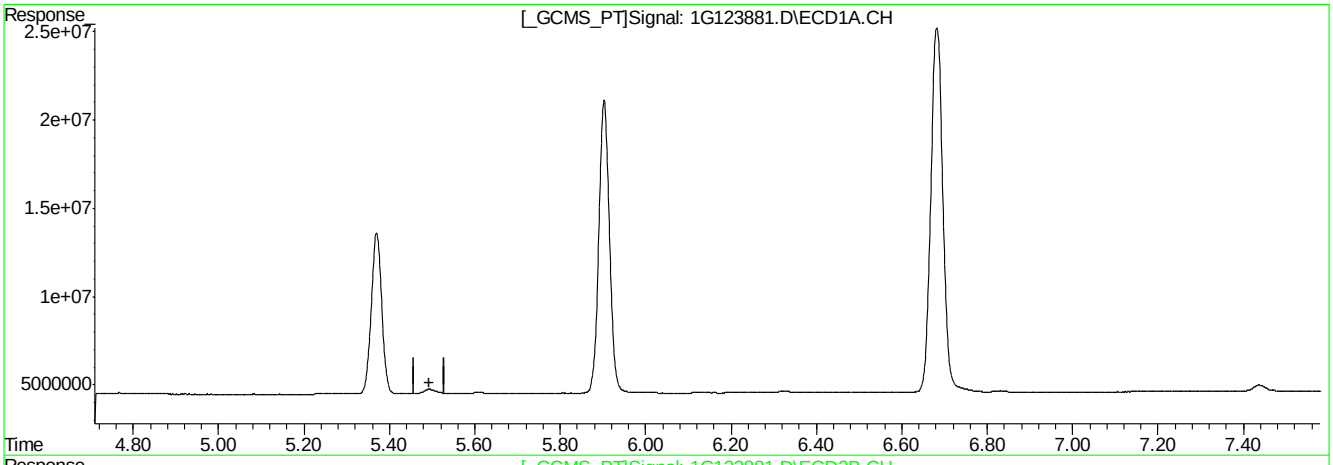
1G123881.D 1PST3988.M Tue Jun 07 11:45:38 2016 RPT1

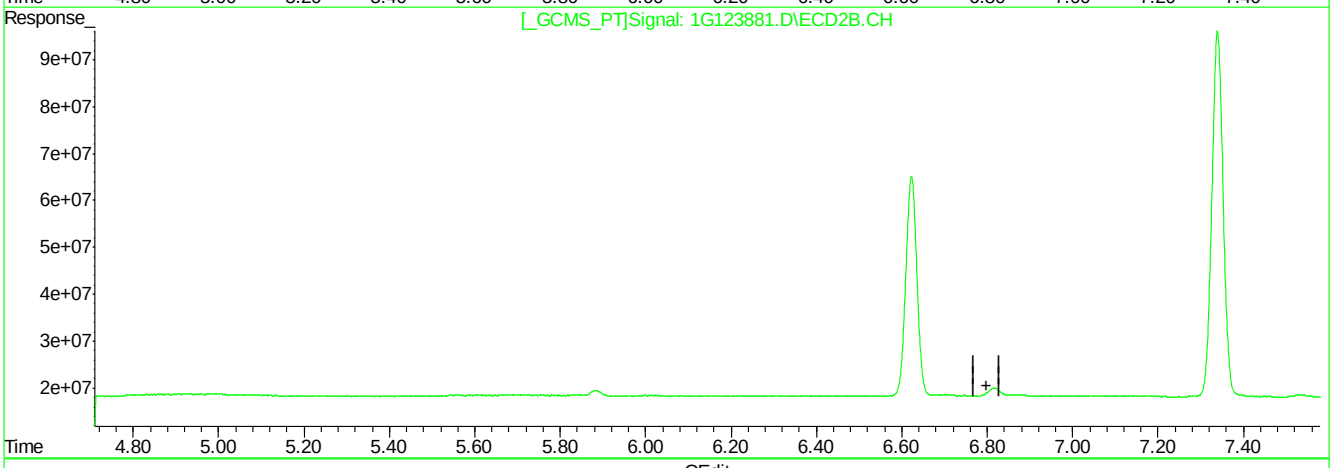
SGS ACCUTEST JC21347

Quantitation Report (Qedit)

```
Signal #1 : C:\MSDCHEM\1\DATA\1G4004\1G123881.D\ECD1A.CH Vial: 1
Signal #2 : C:\MSDCHEM\1\DATA\1G4004\1G123881.D\ECD2B.CH
Acq On    : 6-6-16 05:34:35 PM                      Operator: dharas
Sample    : ddt                                     Inst    : GC1G
Misc      : op94478,g1g4004,300,,,2,1               Multiplr: 1.00
IntFile Signal #1: autoint1.e     IntFile Signal #2: autoint2.e
Quant Time: Jun  7 11:44 2016  Quant Results File: 1PST3988.RES


Method       : C:\MSDCHEM\1\METHODS\1PST3988.M (Chemstation Integrator)
Title        : PEST/PCB
Last Update  : Thu Jun 02 13:15:36 2016
Response via : Multiple Level Calibration
```





QEdit

(16) 4,4'-DDD (A)

0.00min 0.000PPB

response 0

(16) 4,4'-DDD #2 (A)

0.00min 0.000PPB

response 0

(+) = Expected Retention Time

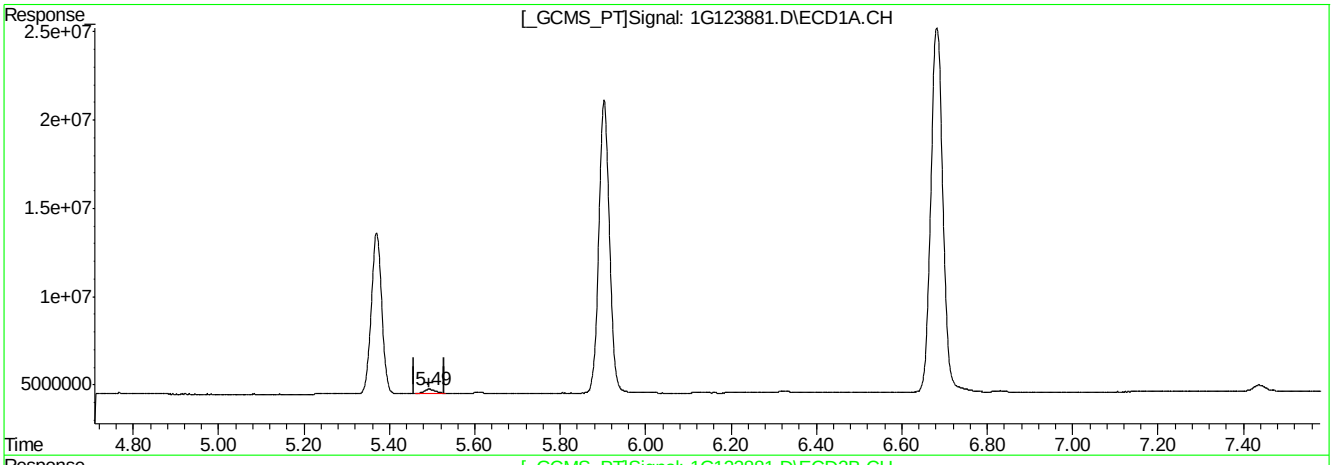
1G123881.D 1PST3988.M Tue Jun 07 11:45:46 2016 RPT1

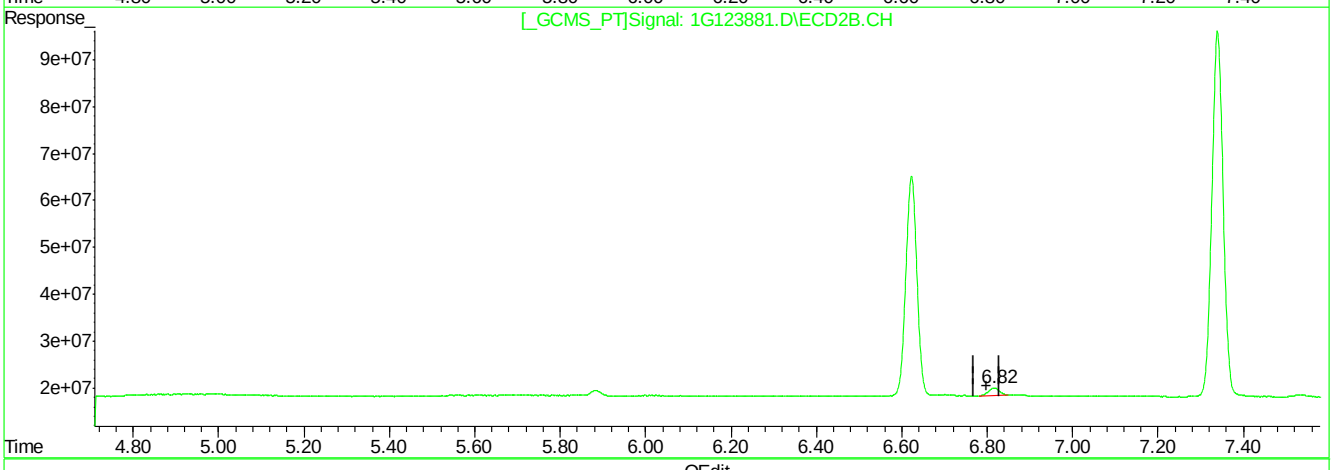
SGS ACCUTEST JC21347

Quantitation Report (Qedit)

```
Signal #1 : C:\MSDCHEM\1\DATA\1G4004\1G123881.D\ECD1A.CH Vial: 1
Signal #2 : C:\MSDCHEM\1\DATA\1G4004\1G123881.D\ECD2B.CH
Acq On    : 6-6-16 05:34:35 PM                      Operator: dharas
Sample    : ddt                                     Inst    : GC1G
Misc      : op94478,g1g4004,300,,,2,1               Multiplr: 1.00
IntFile Signal #1: autoint1.e     IntFile Signal #2: autoint2.e
Quant Time: Jun  7 11:44 2016  Quant Results File: 1PST3988.RES


Method       : C:\MSDCHEM\1\METHODS\1PST3988.M (Chemstation Integrator)
Title        : PEST/PCB
Last Update  : Thu Jun 02 13:15:36 2016
Response via : Multiple Level Calibration
```





QEdit

(16) 4,4'-DDD (A)

5.49min 1.418PPB m

response 3865858

(16) 4,4'-DDD #2 (A)

6.82min 1.867PPB m

response 28290681

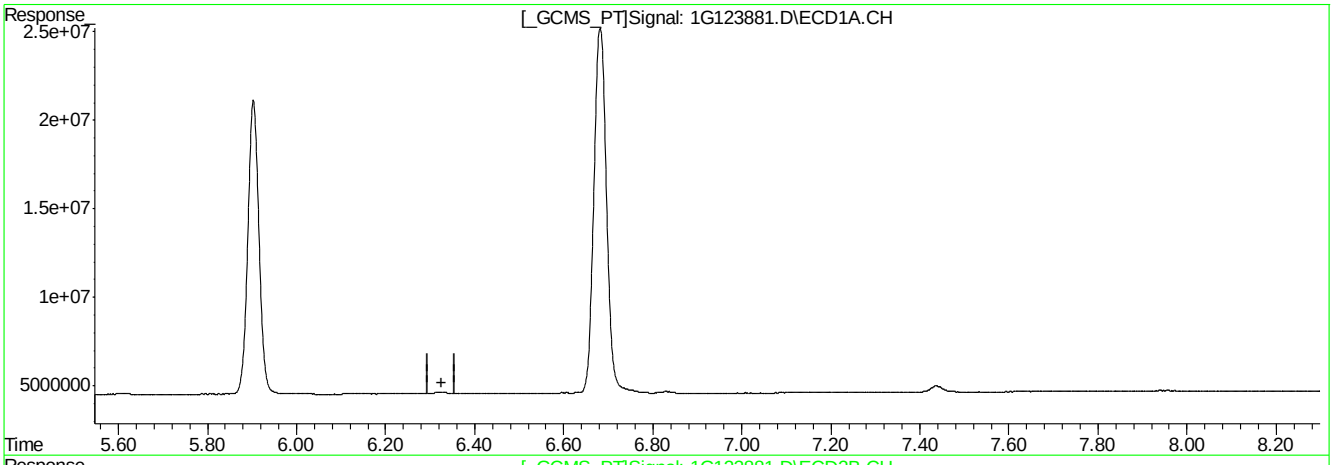
(+) = Expected Retention Time

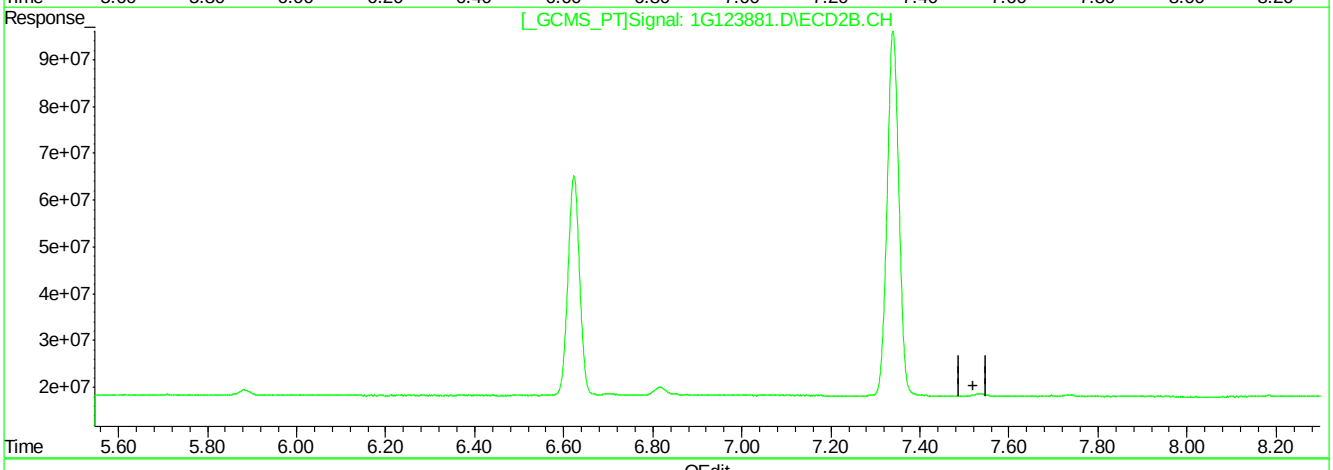
1G123881.D 1PST3988.M Tue Jun 07 11:46:06 2016 RPT1

Quantitation Report (Qedit)

```
Signal #1 : C:\MSDCHEM\1\DATA\1G4004\1G123881.D\ECD1A.CH Vial: 1
Signal #2 : C:\MSDCHEM\1\DATA\1G4004\1G123881.D\ECD2B.CH
Acq On    : 6-6-16 05:34:35 PM                      Operator: dharas
Sample    : ddt                                     Inst    : GC1G
Misc      : op94478,g1g4004,300,,,2,1               Multiplr: 1.00
IntFile Signal #1: autoint1.e     IntFile Signal #2: autoint2.e
Quant Time: Jun  7 11:44 2016  Quant Results File: 1PST3988.RES


Method       : C:\MSDCHEM\1\METHODS\1PST3988.M (Chemstation Integrator)
Title        : PEST/PCB
Last Update  : Thu Jun 02 13:15:36 2016
Response via : Multiple Level Calibration
```





QEdit

(19) Endrin Aldehyde (B)

0.00min 0.000PPB

response 0

(19) Endrin Aldehyde #2 (B)

0.00min 0.000PPB

response 0

(+) = Expected Retention Time

1G123881.D 1PST3988.M Tue Jun 07 11:46:17 2016 RPT1

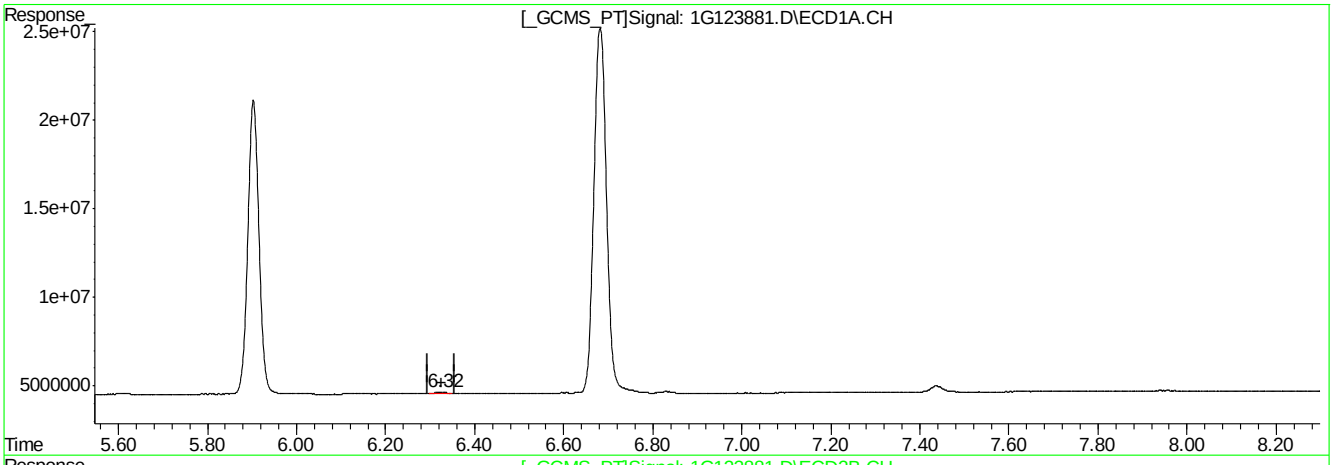
11.5.3.6

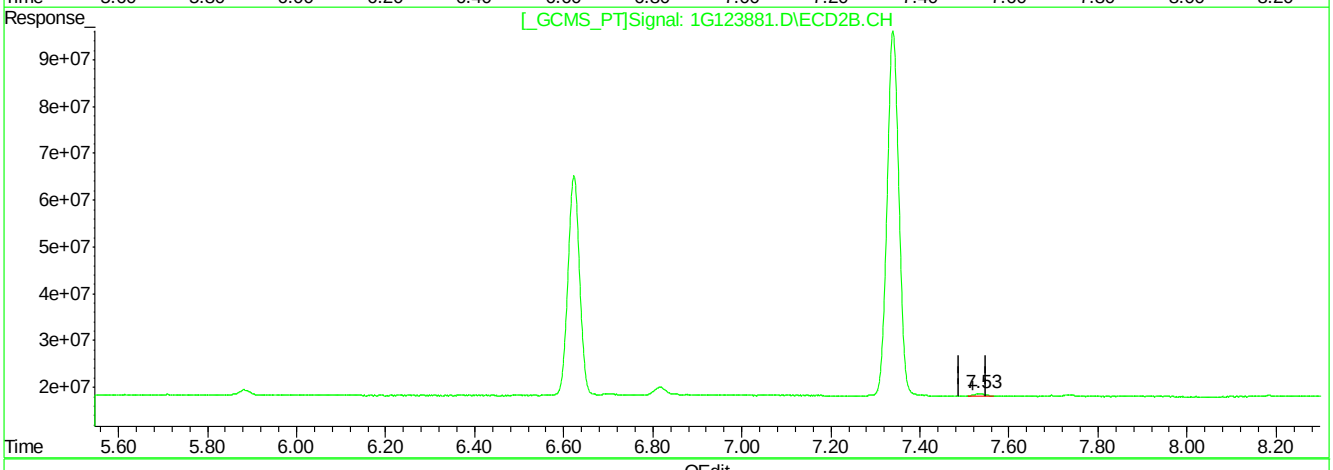
11

Quantitation Report (Qedit)

```
Signal #1 : C:\MSDCHEM\1\DATA\1G4004\1G123881.D\ECD1A.CH Vial: 1
Signal #2 : C:\MSDCHEM\1\DATA\1G4004\1G123881.D\ECD2B.CH
Acq On    : 6-6-16 05:34:35 PM                      Operator: dharas
Sample    : ddt                                     Inst    : GC1G
Misc      : op94478,g1g4004,300,,,2,1               Multiplr: 1.00
IntFile Signal #1: autoint1.e     IntFile Signal #2: autoint2.e
Quant Time: Jun  7 11:44 2016  Quant Results File: 1PST3988.RES


Method       : C:\MSDCHEM\1\METHODS\1PST3988.M (Chemstation Integrator)
Title        : PEST/PCB
Last Update  : Thu Jun 02 13:15:36 2016
Response via : Multiple Level Calibration
```





QEdit

(19) Endrin Aldehyde (B)

6.32min 0.540PPB m

response 1396197

(19) Endrin Aldehyde #2 (B)

7.53min 0.580PPB m

response 7707794

(+) = Expected Retention Time

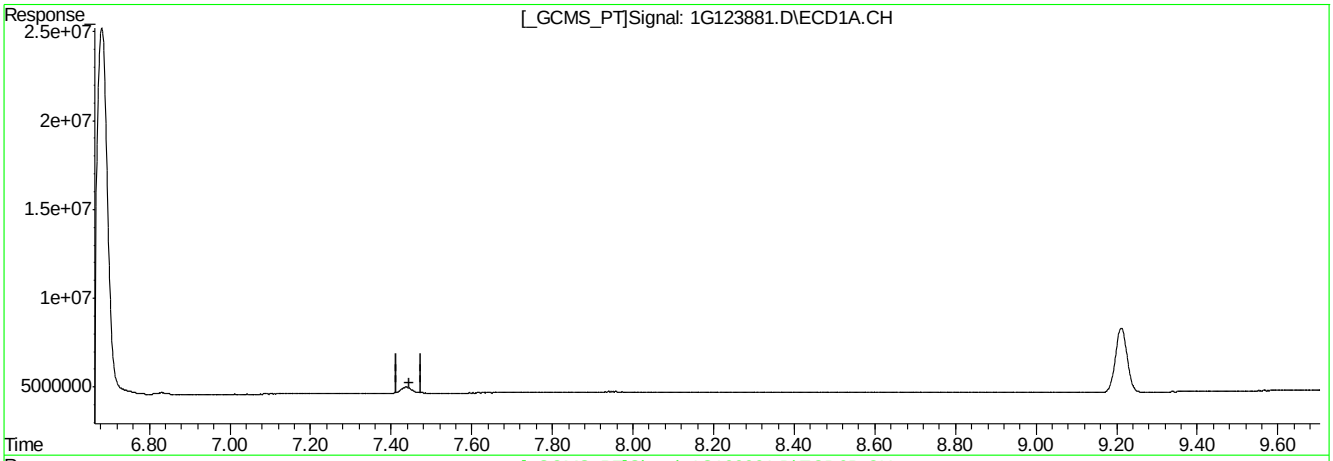
1G123881.D 1PST3988.M Tue Jun 07 11:46:39 2016 RPT1

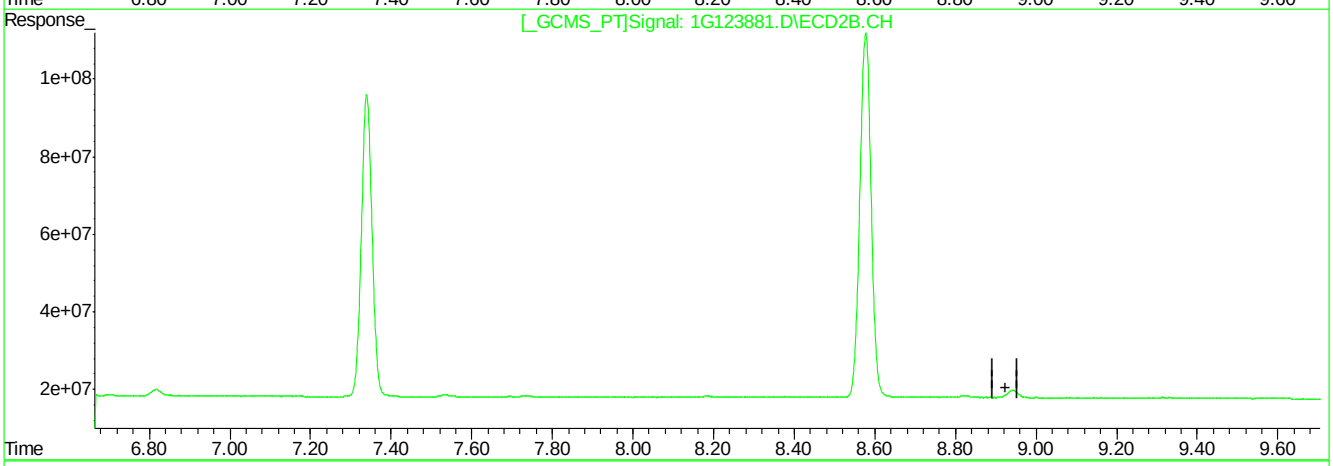
11.5.3.7 11

Quantitation Report (Qedit)

```
Signal #1 : C:\MSDCHEM\1\DATA\1G4004\1G123881.D\ECD1A.CH Vial: 1
Signal #2 : C:\MSDCHEM\1\DATA\1G4004\1G123881.D\ECD2B.CH
Acq On    : 6-6-16 05:34:35 PM                      Operator: dharas
Sample    : ddt                                     Inst    : GC1G
Misc      : op94478,g1g4004,300,,,2,1               Multiplr: 1.00
IntFile Signal #1: autoint1.e     IntFile Signal #2: autoint2.e
Quant Time: Jun  7 11:44 2016  Quant Results File: 1PST3988.RES


Method       : C:\MSDCHEM\1\METHODS\1PST3988.M (Chemstation Integrator)
Title        : PEST/PCB
Last Update  : Thu Jun 02 13:15:36 2016
Response via : Multiple Level Calibration
```





QEdit

(23) Endrin Ketone (B)

0.00min 0.000PPB

response 0

(23) Endrin Ketone #2 (B)

0.00min 0.000PPB

response 0

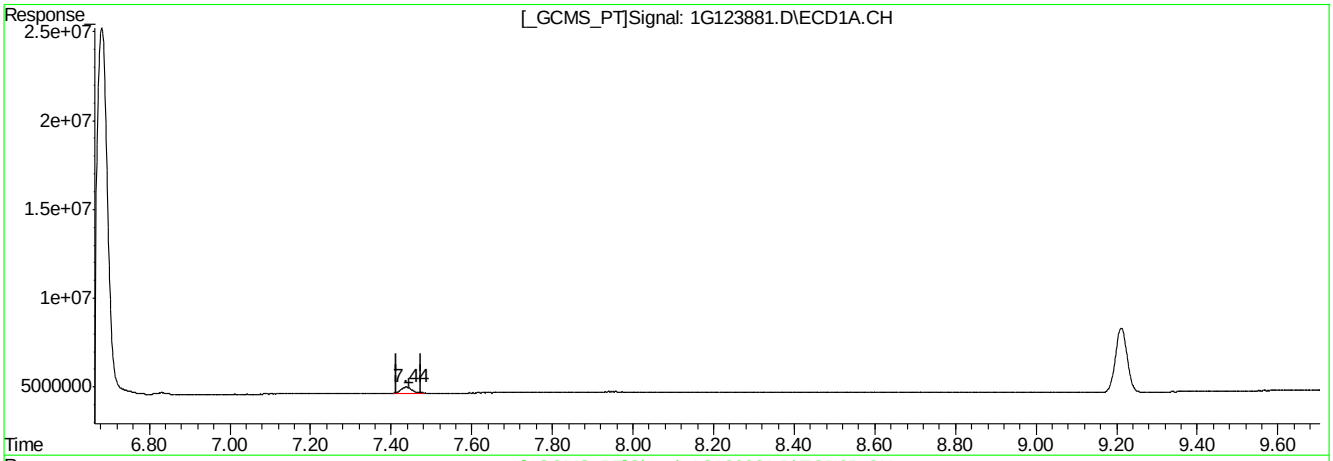
(+) = Expected Retention Time

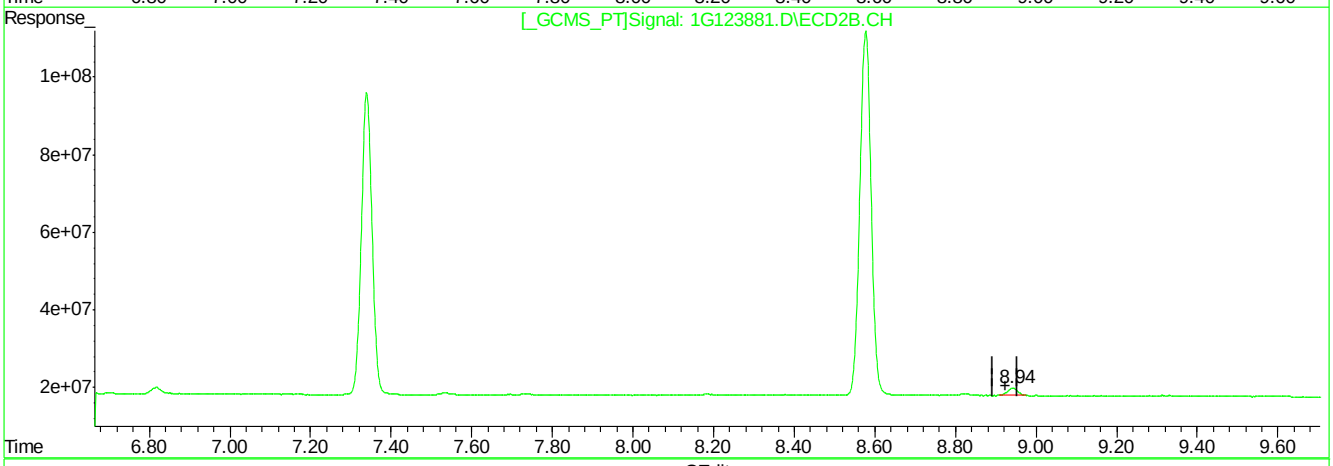
1G123881.D 1PST3988.M Tue Jun 07 11:46:50 2016 RPT1

Quantitation Report (Qedit)

```
Signal #1 : C:\MSDCHEM\1\DATA\1G4004\1G123881.D\ECD1A.CH Vial: 1
Signal #2 : C:\MSDCHEM\1\DATA\1G4004\1G123881.D\ECD2B.CH
Acq On    : 6-6-16 05:34:35 PM                      Operator: dharas
Sample    : ddt                                     Inst    : GC1G
Misc      : op94478,g1g4004,300,,,2,1               Multiplr: 1.00
IntFile Signal #1: autoint1.e     IntFile Signal #2: autoint2.e
Quant Time: Jun  7 11:44 2016  Quant Results File: 1PST3988.RES


Method       : C:\MSDCHEM\1\METHODS\1PST3988.M (Chemstation Integrator)
Title        : PEST/PCB
Last Update  : Thu Jun 02 13:15:36 2016
Response via : Multiple Level Calibration
```





QEdit

(23) Endrin Ketone (B)

7.44min 1.782PPB m

response 6341223

(23) Endrin Ketone #2 (B)

8.94min 1.984PPB m

response 33687743

(+) = Expected Retention Time

1G123881.D 1PST3988.M Tue Jun 07 11:47:13 2016 RPT1

Manual Integrations APPROVED (compounds with "m" flag)
Gwendolyn Burns 06/08/16 11:53

Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\1G4005\1G123951.D\ECD1A.CH Vial: 1
Signal #2 : C:\MSDCHEM\1\DATA\1G4005\1G123951.D\ECD2B.CH
Acq On : 6-7-16 08:01:39 PM Operator: dharas
Sample : ddt Inst : GC1G
Misc : op94490,g1g4005,15.0,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: Jun 8 9:22 2016 Quant Results File: 1PST3988.RES

Quant Method : C:\MSDCHEM\1\METHODS\1PST3988.M (Chemstation Integrator)
Title : PEST/PCB
Last Update : Wed Jun 08 08:45:23 2016
Response via : Initial Calibration
DataAcq Meth : 1PST3988.M

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.50um Signal #2 Info : 30m x .32mm x .25um

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	Internal Standards						
1) I	1-bromo-2-nitrob	1.35	1.51	178.0E6	1155.1E6	50.000	50.000
25) I	1-bromo-2-nitrob	1.35	1.51	178.0E6	1155.1E6	50.000	50.000
31) I	1-bromo-2-nitrob	1.35	1.51	178.0E6	1155.1E6	50.000	50.000
	System Monitoring Compounds						
2) SAB	Tetrachloro-m-xy	1.94	2.30	60421484	390.0E6	18.777	18.977
Spiked Amount	40.000	Range	30 - 150	Recovery	=	46.94%	47.44%
24) SA	Decachlorobiphen	9.21	10.66	72415690	227.1E6	16.553	15.730
Spiked Amount	40.000			Recovery	=	41.38%	39.32%
	Target Compounds						
13) B	4,4'-DDE	4.67	5.88	806846	5638809	0.199m	0.264m
15) MA	Endrin	5.38	6.63	168.8E6	899.7E6	46.312	45.864
16) A	4,4'-DDD	5.50	6.82	3502487	24541308	1.102m	1.396
18) MA	4,4'-DDT	5.91	7.34	319.1E6	1563.3E6	92.168	90.605
19) B	Endrin Aldehyde	6.33	7.53	2211442	12749661	0.733m	0.828
23) B	Endrin Ketone	7.44	8.94	7764279	44551556	1.871	2.262

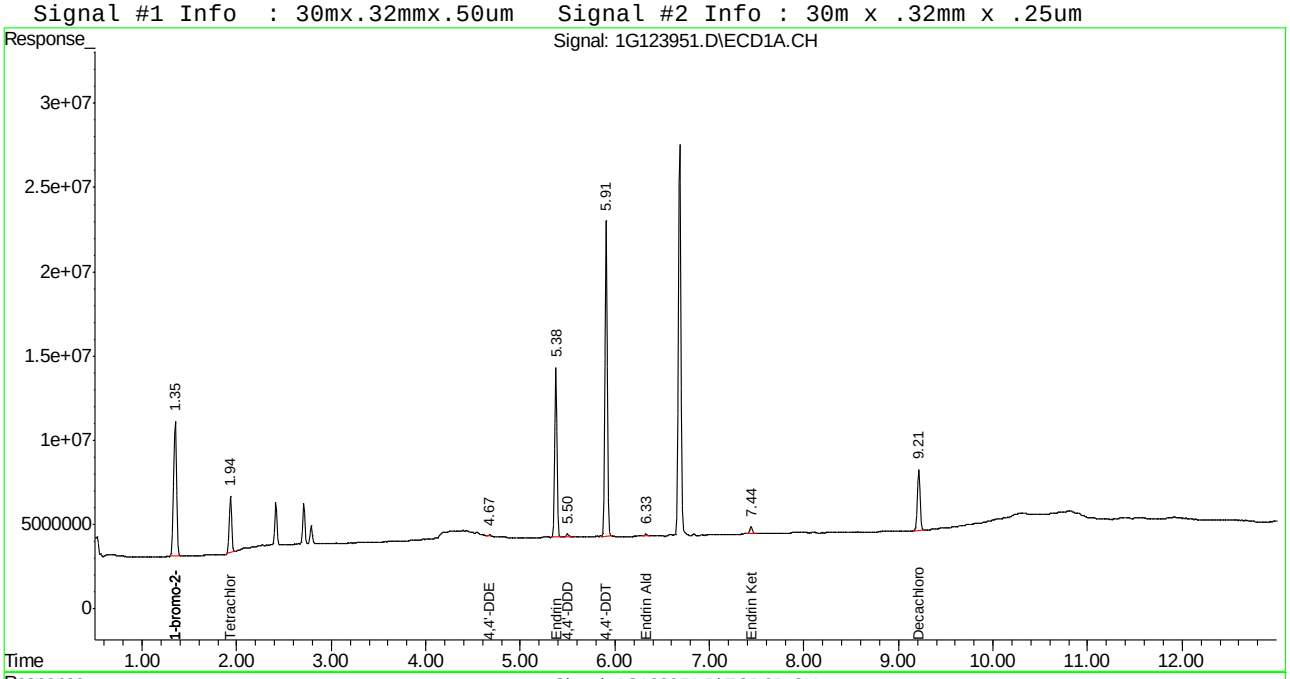
(f)=RT Delta > 1/2 Window (m)=manual int.
1G123951.D 1PST3988.M Wed Jun 08 09:23:02 2016 RPT1 Page 1

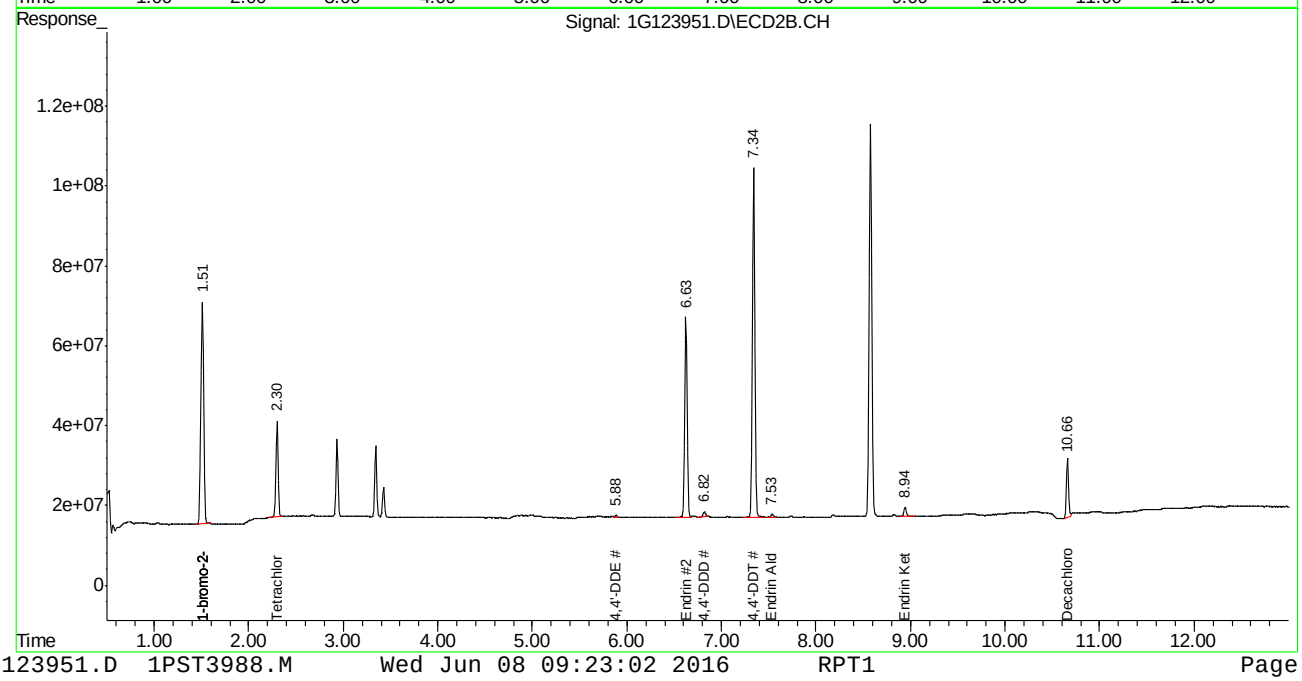
Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\1G4005\1G123951.D\ECD1A.CH Vial: 1
Signal #2 : C:\MSDCHEM\1\DATA\1G4005\1G123951.D\ECD2B.CH
Acq On : 6-7-16 08:01:39 PM Operator: dharas
Sample : ddt Inst : GC1G
Misc : op94490,g1g4005,15.0,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: Jun 8 9:22 2016 Quant Results File: 1PST3988.RES

Quant Method : C:\MSDCHEM\1\METHODS\1PST3988.M (Chemstation Integrator)
Title : PEST/PCB
Last Update : Wed Jun 08 08:45:23 2016
Response via : Multiple Level Calibration
DataAcq Meth : 1PST3988.M

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.50um Signal #2 Info : 30m x .32mm x .25um





Manual Integration Approval Summary

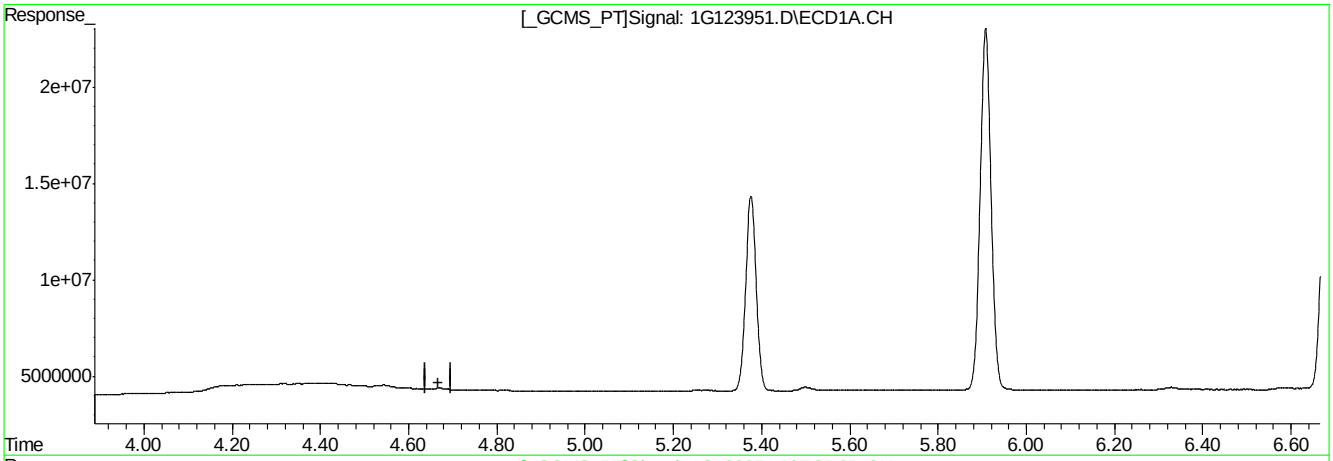
Sample Number:	G1G4005-DDT	**Method:**	SW846 8081B
Lab FileID:	1G123951.D	**Analyst approved:**	06/08/16 10:12 Dhara Saparia
Injection Time:	06/07/16 20:01	**Supervisor approved:**	06/08/16 11:53 Gwendolyn Burns

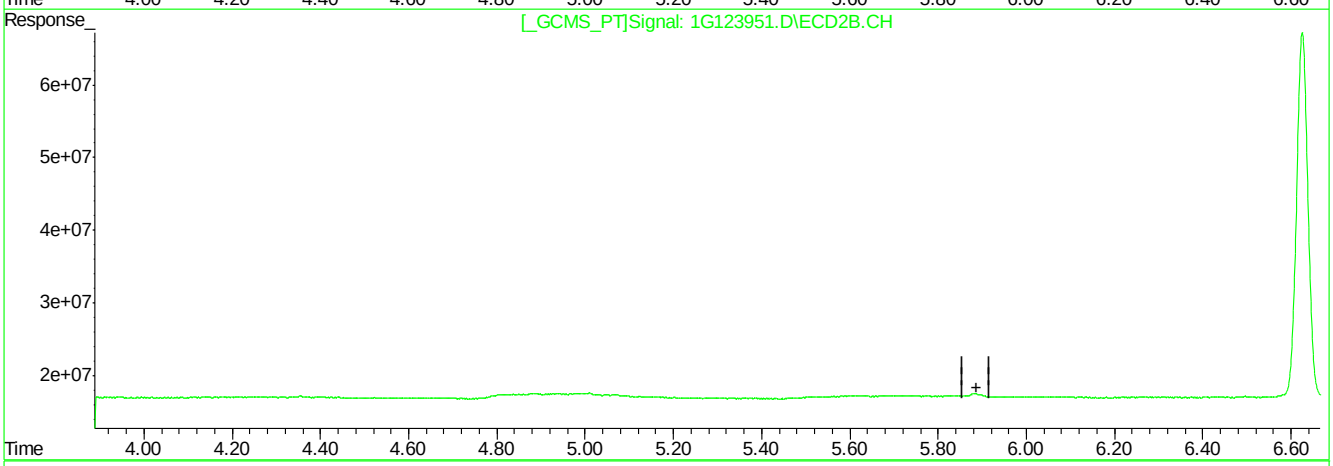
Parameter	CAS	Sig#	R.T. (min.)	Reason
4,4'-DDE	72-55-9	1	4.67	Poor instrument integration
4,4'-DDD	72-54-8	1	5.50	Poor instrument integration
4,4'-DDE	72-55-9	2	5.88	Poor instrument integration
Endrin aldehyde	7421-93-4	1	6.33	Poor instrument integration

Quantitation Report (Qedit)

```
Signal #1 : C:\MSDCHEM\1\DATA\1G4005\1G123951.D\ECD1A.CH Vial: 1
Signal #2 : C:\MSDCHEM\1\DATA\1G4005\1G123951.D\ECD2B.CH
Acq On    : 6-7-16 08:01:39 PM                      Operator: dharas
Sample    : ddt                                     Inst    : GC1G
Misc      : op94490,g1g4005,15.0,,,10,1             Multiplr: 1.00
IntFile Signal #1: autoint1.e     IntFile Signal #2: autoint2.e
Quant Time: Jun  8  9:21 2016  Quant Results File: 1PST3988.RES


Method       : C:\MSDCHEM\1\METHODS\1PST3988.M (Chemstation Integrator)
Title        : PEST/PCB
Last Update  : Wed Jun 08 08:45:23 2016
Response via : Multiple Level Calibration
```





QEdit

(13) 4,4'-DDE (B)

0.00min 0.000PPB

response 0

(13) 4,4'-DDE #2 (B)

0.00min 0.000PPB

response 0

(+) = Expected Retention Time

1G123951.D 1PST3988.M Wed Jun 08 09:22:12 2016 RPT1

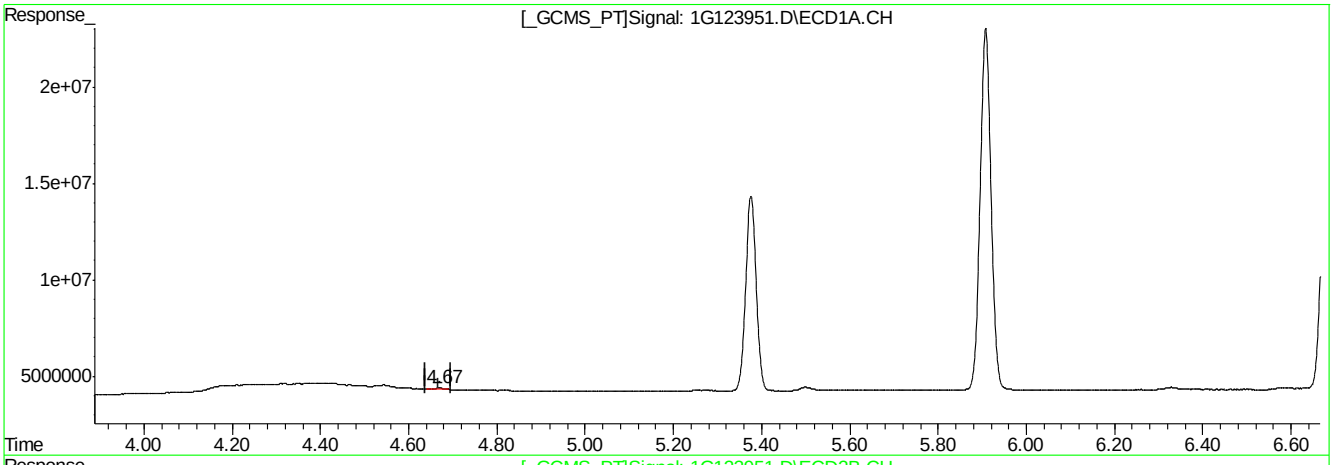
11.5.4.2

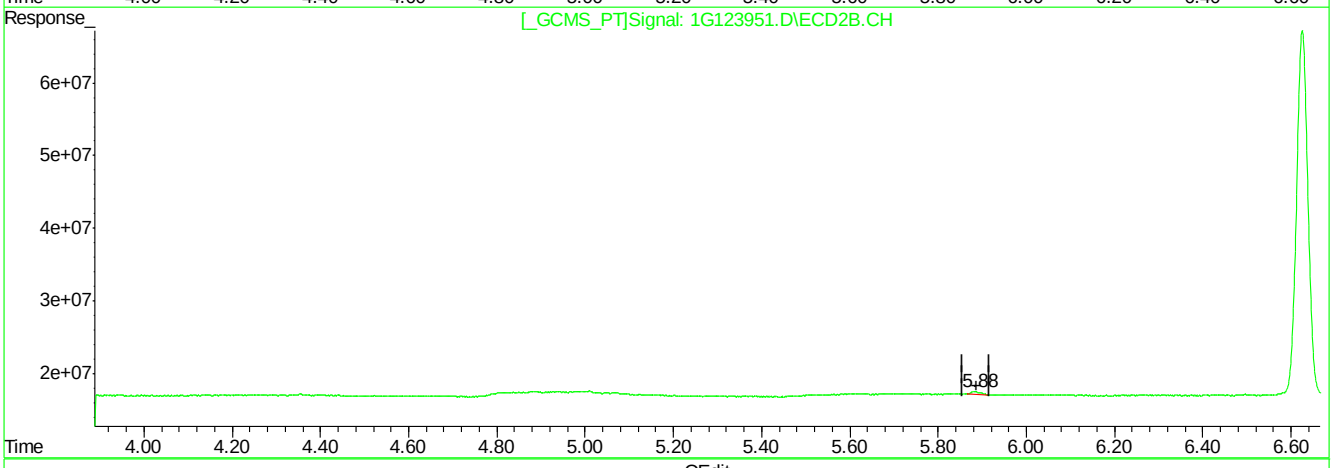
11

Quantitation Report (Qedit)

```
Signal #1 : C:\MSDCHEM\1\DATA\1G4005\1G123951.D\ECD1A.CH Vial: 1
Signal #2 : C:\MSDCHEM\1\DATA\1G4005\1G123951.D\ECD2B.CH
Acq On    : 6-7-16 08:01:39 PM                      Operator: dharas
Sample    : ddt                                     Inst    : GC1G
Misc      : op94490,g1g4005,15.0,,,10,1             Multiplr: 1.00
IntFile Signal #1: autoint1.e     IntFile Signal #2: autoint2.e
Quant Time: Jun  8  9:21 2016  Quant Results File: 1PST3988.RES


Method       : C:\MSDCHEM\1\METHODS\1PST3988.M (Chemstation Integrator)
Title        : PEST/PCB
Last Update  : Wed Jun 08 08:45:23 2016
Response via : Multiple Level Calibration
```





QEdit

(13) 4,4'-DDE (B)

4.67min 0.199PPB m

response 806846

(13) 4,4'-DDE #2 (B)

5.88min 0.264PPB m

response 5638809

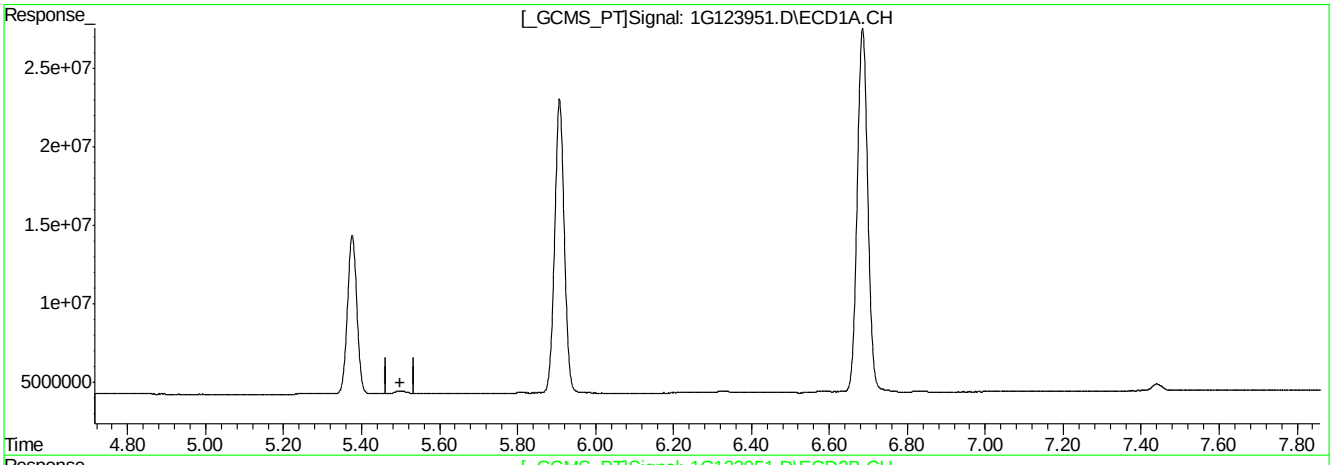
(+) = Expected Retention Time

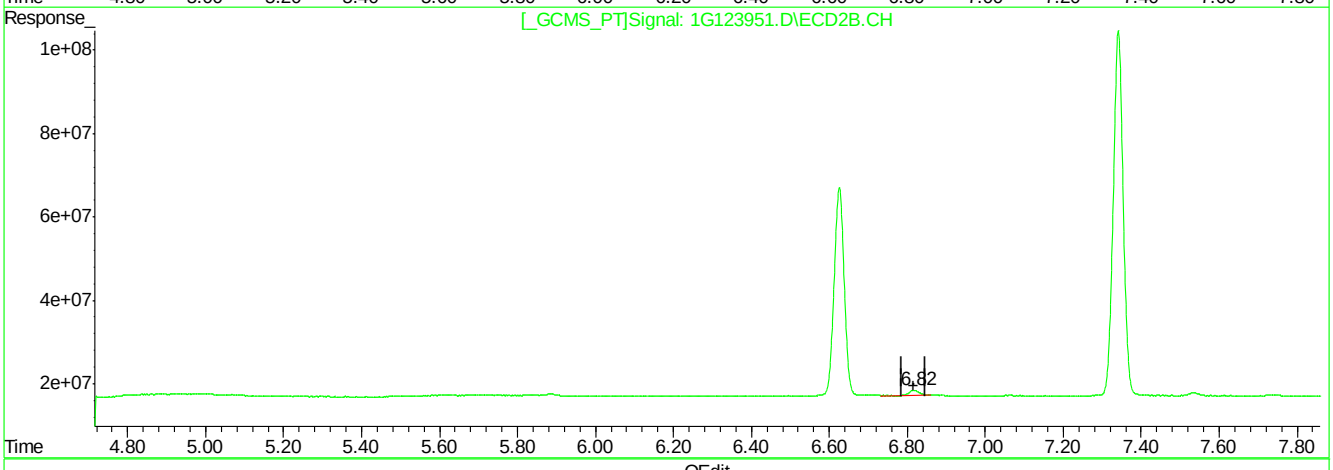
1G123951.D 1PST3988.M Wed Jun 08 09:22:26 2016 RPT1

Quantitation Report (Qedit)

```
Signal #1 : C:\MSDCHEM\1\DATA\1G4005\1G123951.D\ECD1A.CH Vial: 1
Signal #2 : C:\MSDCHEM\1\DATA\1G4005\1G123951.D\ECD2B.CH
Acq On    : 6-7-16 08:01:39 PM                      Operator: dharas
Sample    : ddt                                     Inst    : GC1G
Misc      : op94490,g1g4005,15.0,,,10,1             Multiplr: 1.00
IntFile Signal #1: autoint1.e     IntFile Signal #2: autoint2.e
Quant Time: Jun  8  9:21 2016  Quant Results File: 1PST3988.RES


Method       : C:\MSDCHEM\1\METHODS\1PST3988.M (Chemstation Integrator)
Title        : PEST/PCB
Last Update  : Wed Jun 08 08:45:23 2016
Response via : Multiple Level Calibration
```





QEdit

(16) 4,4'-DDD (A)

0.00min 0.000PPB

response 0

(16) 4,4'-DDD #2 (A)

6.82min 1.396PPB

response 24541308

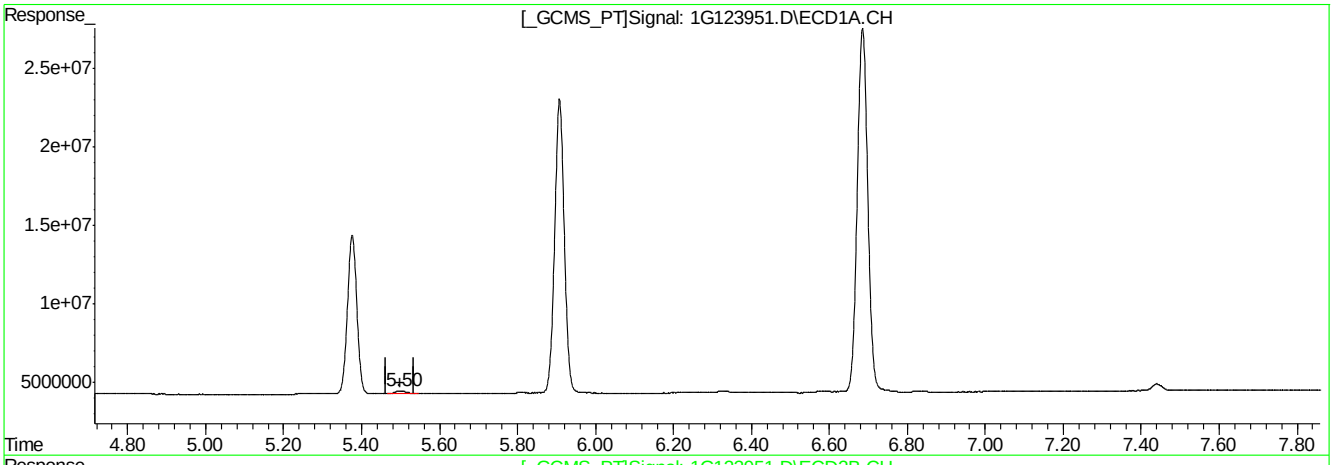
(+) = Expected Retention Time

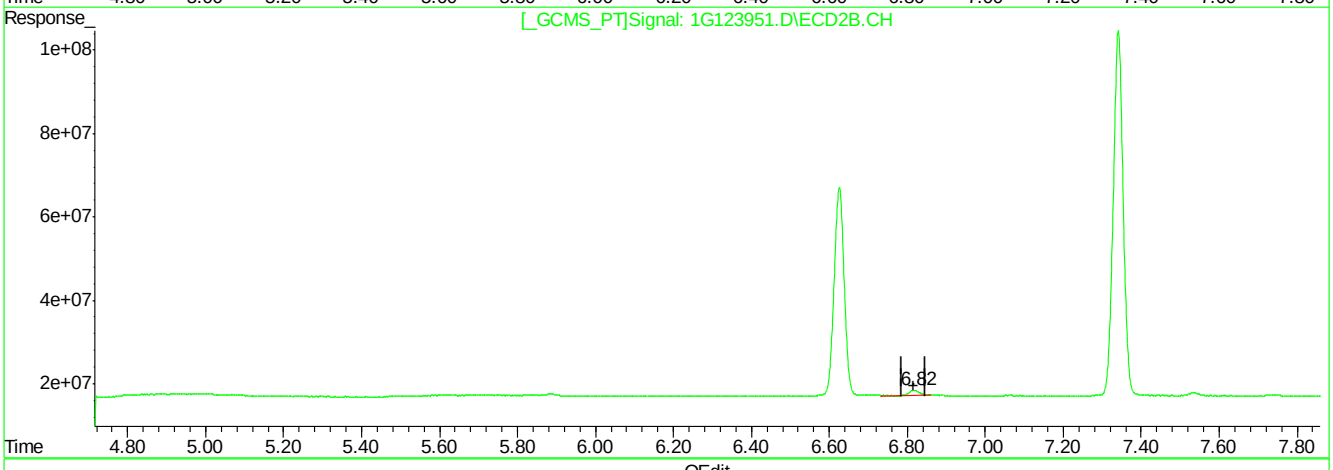
1G123951.D 1PST3988.M Wed Jun 08 09:22:30 2016 RPT1

Quantitation Report (Qedit)

```
Signal #1 : C:\MSDCHEM\1\DATA\1G4005\1G123951.D\ECD1A.CH Vial: 1
Signal #2 : C:\MSDCHEM\1\DATA\1G4005\1G123951.D\ECD2B.CH
Acq On    : 6-7-16 08:01:39 PM                      Operator: dharas
Sample    : ddt                                     Inst    : GC1G
Misc      : op94490,g1g4005,15.0,,,10,1             Multiplr: 1.00
IntFile Signal #1: autoint1.e     IntFile Signal #2: autoint2.e
Quant Time: Jun  8  9:21 2016  Quant Results File: 1PST3988.RES


Method       : C:\MSDCHEM\1\METHODS\1PST3988.M (Chemstation Integrator)
Title        : PEST/PCB
Last Update  : Wed Jun 08 08:45:23 2016
Response via : Multiple Level Calibration
```





QEdit

(16) 4,4'-DDD (A)

5.50min 1.102PPB m

response 3502487

(16) 4,4'-DDD #2 (A)

6.82min 1.396PPB

response 24541308

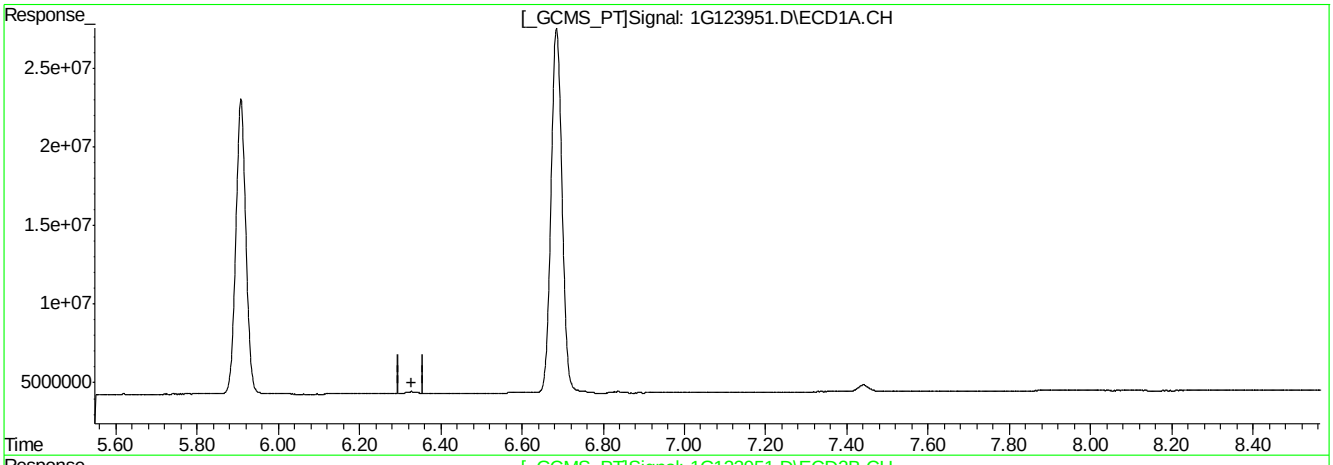
(+) = Expected Retention Time

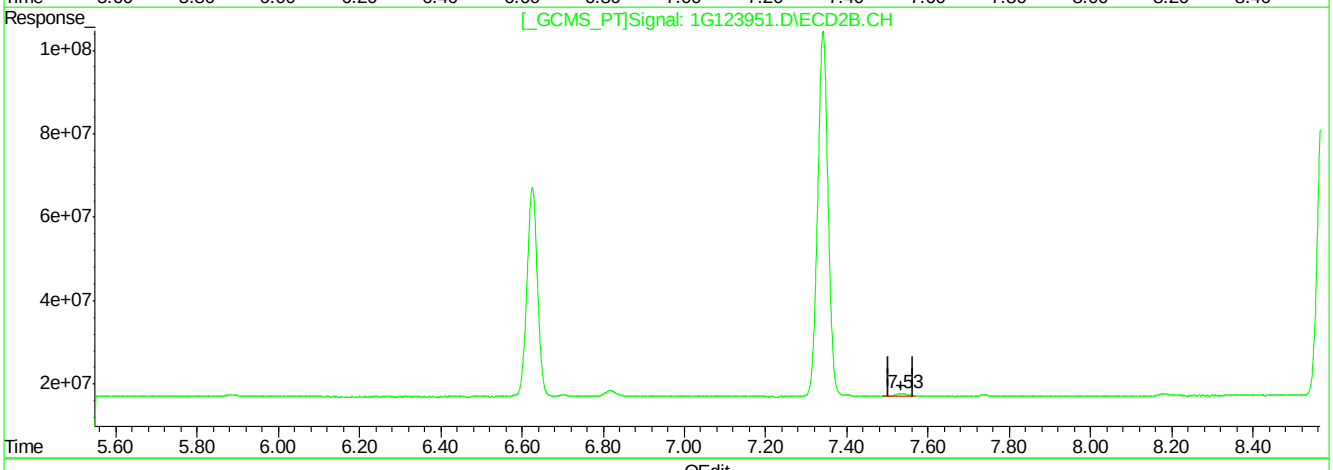
1G123951.D 1PST3988.M Wed Jun 08 09:22:38 2016 RPT1

Quantitation Report (Qedit)

```
Signal #1 : C:\MSDCHEM\1\DATA\1G4005\1G123951.D\ECD1A.CH Vial: 1
Signal #2 : C:\MSDCHEM\1\DATA\1G4005\1G123951.D\ECD2B.CH
Acq On    : 6-7-16 08:01:39 PM                      Operator: dharas
Sample    : ddt                                     Inst    : GC1G
Misc      : op94490,g1g4005,15.0,,,10,1             Multiplr: 1.00
IntFile Signal #1: autoint1.e     IntFile Signal #2: autoint2.e
Quant Time: Jun  8  9:21 2016  Quant Results File: 1PST3988.RES


Method       : C:\MSDCHEM\1\METHODS\1PST3988.M (Chemstation Integrator)
Title        : PEST/PCB
Last Update  : Wed Jun 08 08:45:23 2016
Response via : Multiple Level Calibration
```





QEdit

(19) Endrin Aldehyde (B)

0.00min 0.000PPB

response 0

(19) Endrin Aldehyde #2 (B)

7.53min 0.828PPB

response 12749661

(+) = Expected Retention Time

1G123951.D 1PST3988.M Wed Jun 08 09:22:44 2016 RPT1

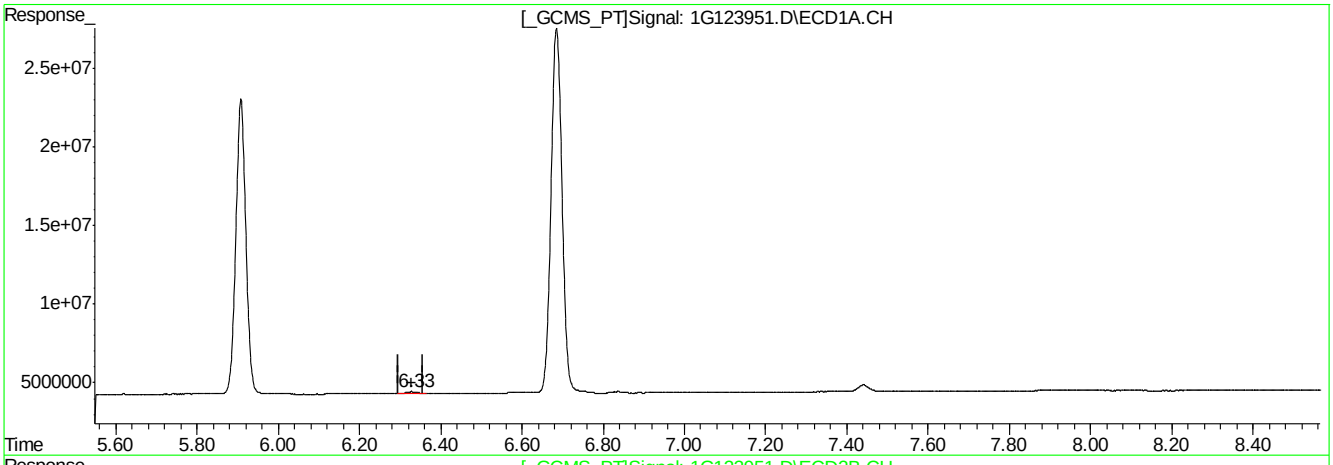
11.5.4.6

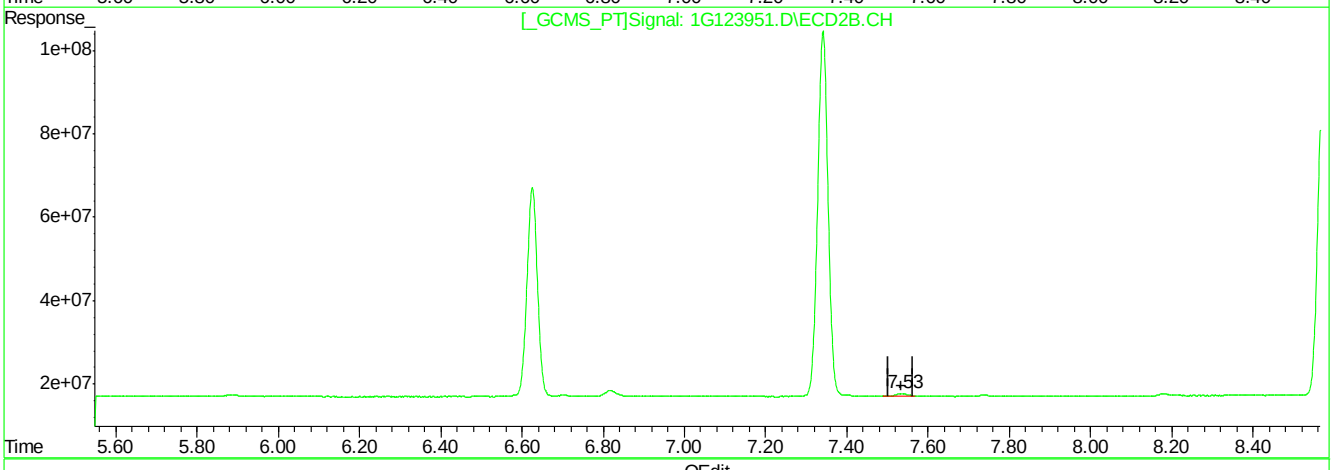
11

Quantitation Report (Qedit)

```
Signal #1 : C:\MSDCHEM\1\DATA\1G4005\1G123951.D\ECD1A.CH Vial: 1
Signal #2 : C:\MSDCHEM\1\DATA\1G4005\1G123951.D\ECD2B.CH
Acq On    : 6-7-16 08:01:39 PM                      Operator: dharas
Sample    : ddt                                     Inst    : GC1G
Misc      : op94490,g1g4005,15.0,,,10,1             Multiplr: 1.00
IntFile Signal #1: autoint1.e     IntFile Signal #2: autoint2.e
Quant Time: Jun  8  9:21 2016  Quant Results File: 1PST3988.RES

Method       : C:\MSDCHEM\1\METHODS\1PST3988.M (Chemstation Integrator)
Title        : PEST/PCB
Last Update  : Wed Jun 08 08:45:23 2016
Response via : Multiple Level Calibration
```





QEdit

(19) Endrin Aldehyde (B)

6.33min 0.733PPB m

response 2211442

(19) Endrin Aldehyde #2 (B)

7.53min 0.828PPB

response 12749661

(+) = Expected Retention Time

1G123951.D 1PST3988.M Wed Jun 08 09:22:51 2016 RPT1

11.5.4.7 11

Manual Integrations APPROVED (compounds with "m" flag)
Gwendolyn Burns 05/16/16 17:43

Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\1G3988\1G123061.D\ECD1A.CH Vial: 6
Signal #2 : C:\MSDCHEM\1\DATA\1G3988\1G123061.D\ECD2B.CH
Acq On : 16 May 2016 10:11 am Operator: thomasl
Sample : ic3988-1 Inst : GC1G
Misc : op93854,g1g3988,930,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: May 16 13:24 2016 Quant Results File: 1PST3988.RES

Quant Method : C:\MSDCHEM\1\METHODS\1PST3988.M (Chemstation Integrator)
Title : PEST/PCB
Last Update : Mon May 16 09:01:14 2016
Response via : Initial Calibration
DataAcq Meth : 1PST3988.M

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.50um Signal #2 Info : 30m x .32mm x .25um

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	Internal Standards						
1) I	1-bromo-2-nitrob	1.33	1.49	97981670	767.2E6	50.000	50.000
	System Monitoring Compounds						
2) SAB	Tetrachloro-m-xy	1.93	2.29	1593097	13048604	1.032m	1.032
Spiked Amount	40.000	Range	30 - 150	Recovery	=	2.58%#	2.58%#
24) SA	Decachlorobiphen	9.24	10.68	2597406	11137800	1.192	1.256
Spiked Amount	40.000			Recovery	=	2.98%	3.14%
	Target Compounds						
3) A	alpha-BHC	2.41	2.94	2216924	18467738	0.930	0.983
4) MA	gamma-BHC	2.71	3.35	2024492	16275184	0.909	0.958
5) MA	Heptachlor	3.20	3.90	2441832	15659516	1.072	0.982
6) B	beta-BHC	2.79	3.43	1135172	7800568	1.050m	1.022
7) B	delta-BHC	2.97	3.81	2171307	15797517	1.005	0.950
8) MB	Aldrin	3.53	4.34	2019036	14551482	0.935	0.968
9) B	Heptachlor Epoxi	4.25	5.14	2165480	14276101	1.028	1.062
10) B	gamma-Chlordane	4.40	5.42	2465581	15200309	1.169	1.136
11) B	alpha-Chlordane	4.57	5.64	2379533	15515114	1.148	1.178
12) A	Endosulfan I	4.75	5.73	2276516	12414982	1.106	0.999
13) B	4,4'-DDE	4.68	5.90	2363972	15081593	1.100	1.143
14) MA	Dieldrin	5.07	6.16	2240390	15873467	1.007	1.164
15) MA	Endrin	5.40	6.65	2231189	14587124	1.119	1.389
16) A	4,4'-DDD	5.51	6.84	1723248	11581992	0.985m	1.008
17) B	Endosulfan II	5.72	6.99	2223675	15003113	1.077	1.126
18) MA	4,4'-DDT	5.92	7.36	1997680	10752582	1.050m	1.049m
19) B	Endrin Aldehyde	6.35	7.56	1723536	11015067	1.117m	1.188
20) B	Endosulfan Sulfa	7.04	8.03	2613752	11897470	1.590	1.188
21) A	Methoxychlor	6.70	8.60	1332584	7701428	1.342m	1.543
22)	Mirex	6.83	8.90	2154376	11644852	1.252	1.324
23) B	Endrin Ketone	7.47	8.97	2552572	13997924	1.387	1.254

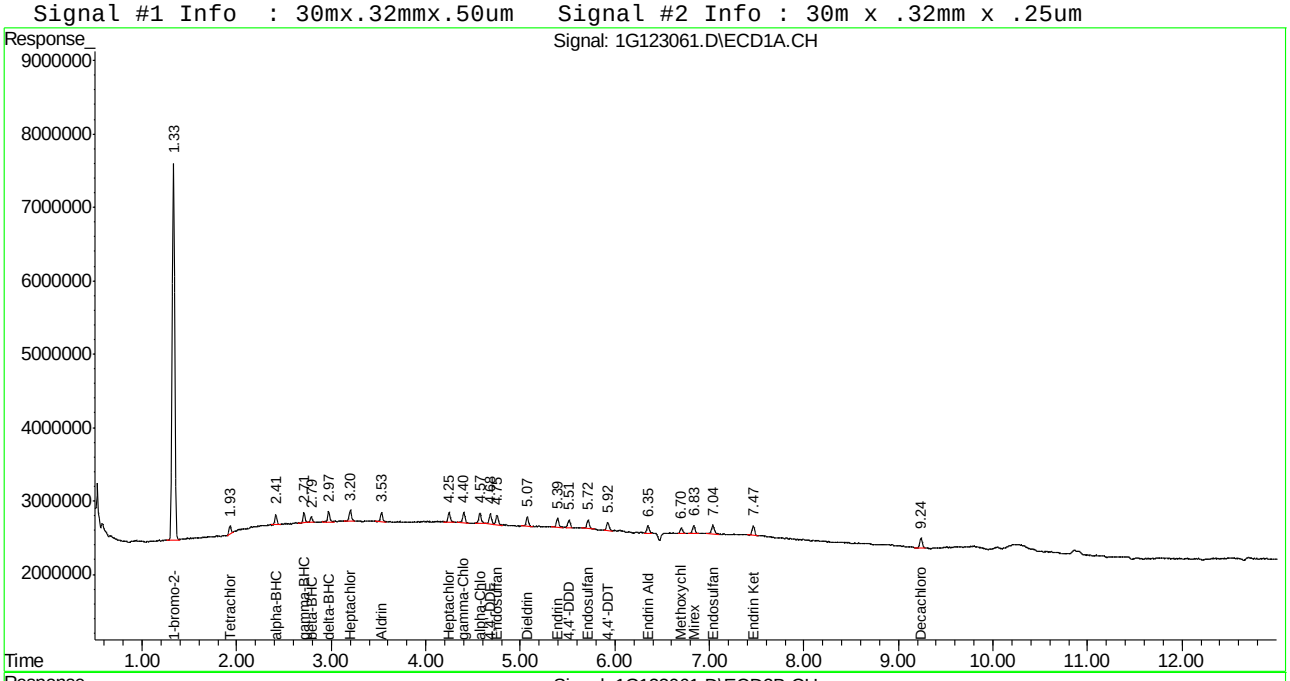
(f)=RT Delta > 1/2 Window (m)=manual int.

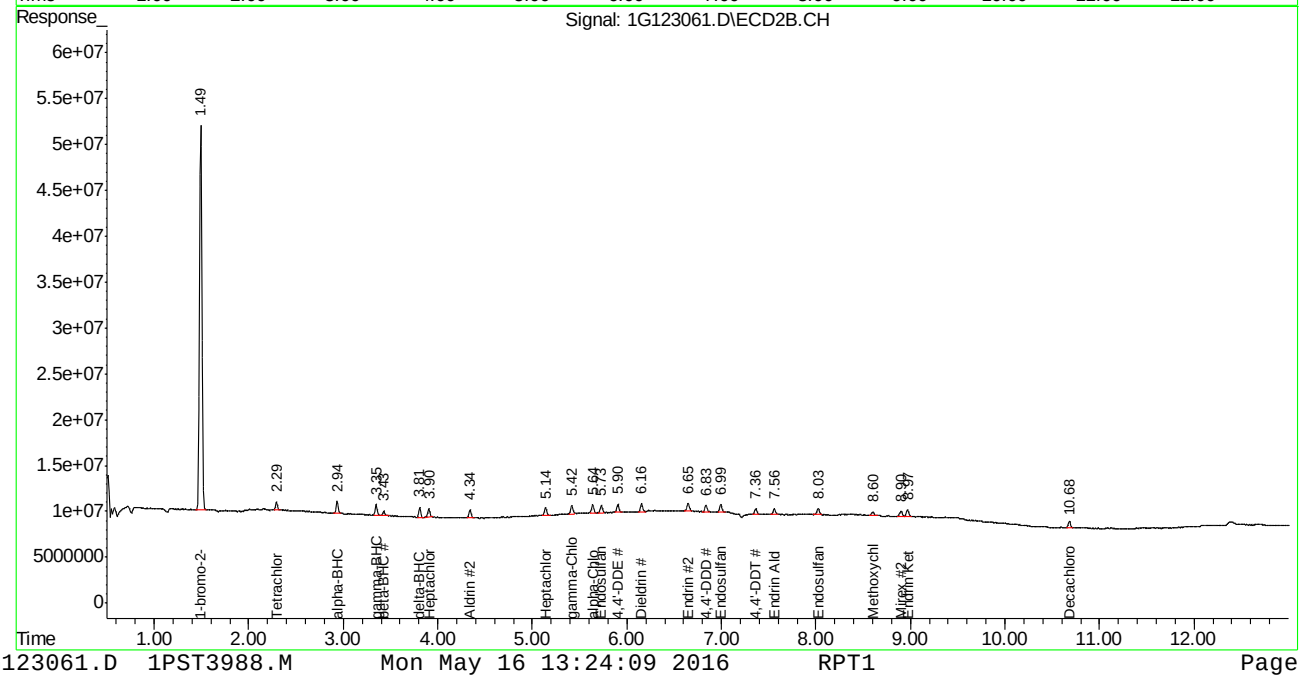
Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\1G3988\1G123061.D\ECD1A.CH Vial: 6
Signal #2 : C:\MSDCHEM\1\DATA\1G3988\1G123061.D\ECD2B.CH
Acq On : 16 May 2016 10:11 am Operator: thomasl
Sample : ic3988-1 Inst : GC1G
Misc : op93854,g1g3988,930,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: May 16 13:24 2016 Quant Results File: 1PST3988.RES

Quant Method : C:\MSDCHEM\1\METHODS\1PST3988.M (Chemstation Integrator)
Title : PEST/PCB
Last Update : Mon May 16 09:01:14 2016
Response via : Multiple Level Calibration
DataAcq Meth : 1PST3988.M

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.50um Signal #2 Info : 30m x .32mm x .25um





SGS ACCUTEST JC21347

Manual Integration Approval Summary

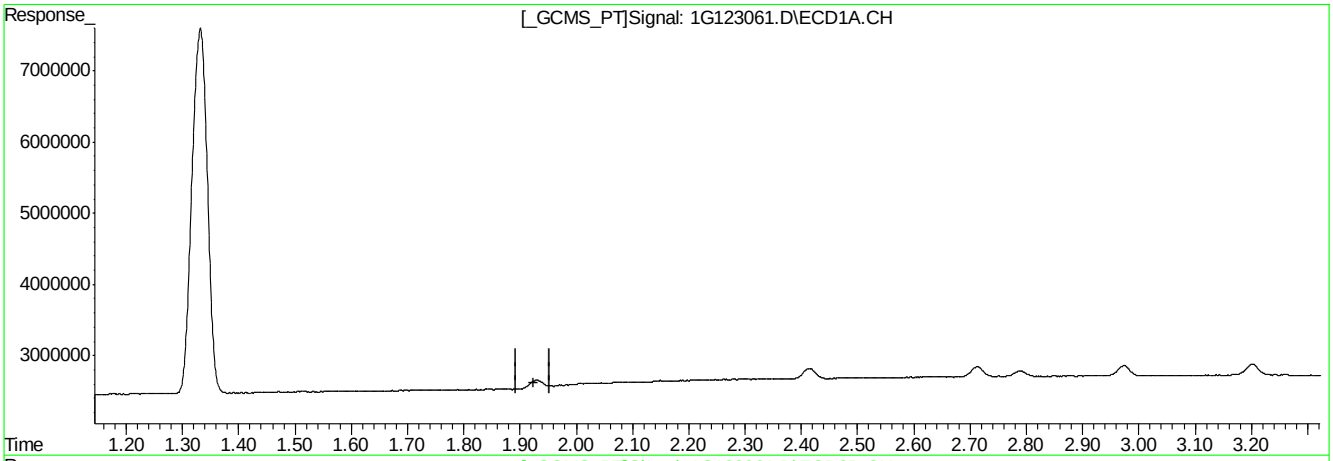
Sample Number:	G1G3988-IC3988	**Method:**	SW846 8081B
Lab FileID:	1G123061.D	**Analyst approved:**	05/16/16 15:18 Dhara Saparia
Injection Time:	05/16/16 10:11	**Supervisor approved:**	05/16/16 17:43 Gwendolyn Burns

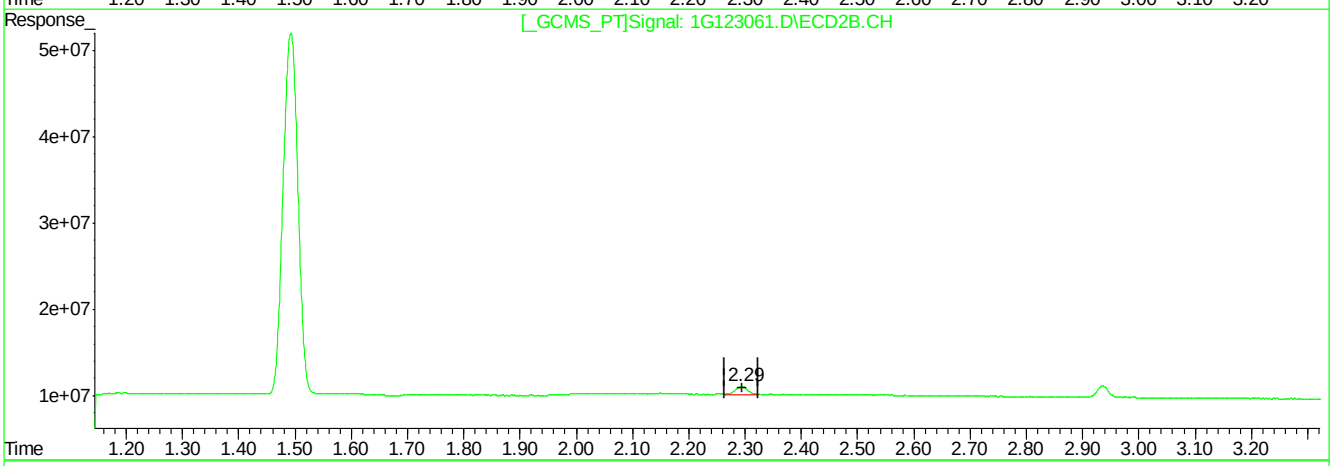
Parameter	CAS	Sig#	R.T. (min.)	Reason
Tetrachloro-m-xylene	877-09-8	1	1.93	Poor instrument integration
beta-BHC	319-85-7	1	2.79	Poor instrument integration
4,4'-DDD	72-54-8	1	5.51	Poor instrument integration
4,4'-DDT	50-29-3	1	5.92	Poor instrument integration
Endrin aldehyde	7421-93-4	1	6.35	Poor instrument integration
Methoxychlor	72-43-5	1	6.70	Poor instrument integration
4,4'-DDT	50-29-3	2	7.36	Poor instrument integration

Quantitation Report (Qedit)

```
Signal #1 : C:\MSDCHEM\1\DATA\1G3988\1G123061.D\ECD1A.CH Vial: 6
Signal #2 : C:\MSDCHEM\1\DATA\1G3988\1G123061.D\ECD2B.CH
Acq On    : 16 May 2016  10:11 am                    Operator: thomasl
Sample    : ic3988-1                                 Inst    : GC1G
Misc      : op93854,g1g3988,930,,,10,1               Multiplr: 1.00
IntFile Signal #1: autoint1.e     IntFile Signal #2: autoint2.e
Quant Time: May 16 12:27 2016  Quant Results File: 1PST3988.RES


Method       : C:\MSDCHEM\1\METHODS\1PST3988.M (Chemstation Integrator)
Title        : PEST/PCB
Last Update  : Mon May 16 09:01:14 2016
Response via : Multiple Level Calibration
```





QEdit

(2) Tetrachloro-m-xylene (SAB)

0.00min 0.000PPB

response 0

(2) Tetrachloro-m-xylene #2 (SAB)

2.29min 1.032PPB

response 13048604

(+) = Expected Retention Time

1G123061.D 1PST3988.M Mon May 16 12:27:54 2016 RPT1

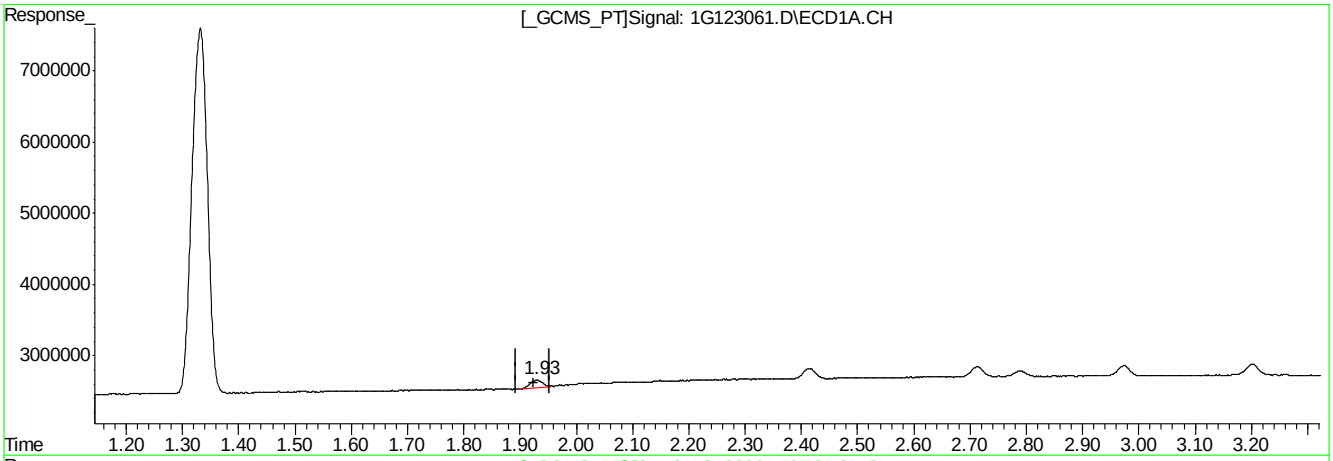
11.6.1.2

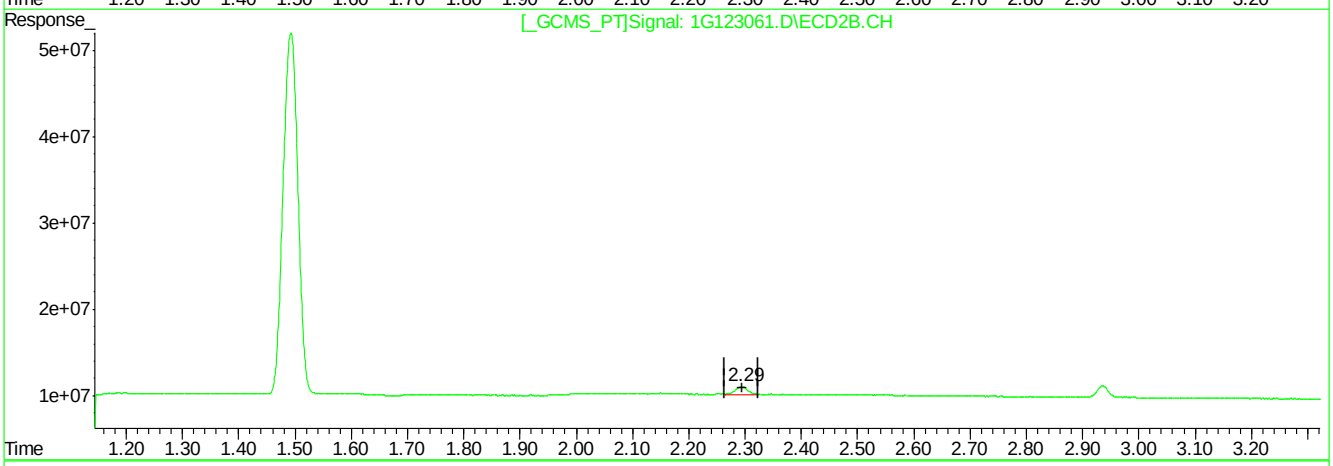
11

Quantitation Report (Qedit)

```
Signal #1 : C:\MSDCHEM\1\DATA\1G3988\1G123061.D\ECD1A.CH Vial: 6
Signal #2 : C:\MSDCHEM\1\DATA\1G3988\1G123061.D\ECD2B.CH
Acq On    : 16 May 2016  10:11 am                    Operator: thomasl
Sample    : ic3988-1                                 Inst    : GC1G
Misc      : op93854,g1g3988,930,,,10,1               Multiplr: 1.00
IntFile Signal #1: autoint1.e     IntFile Signal #2: autoint2.e
Quant Time: May 16 12:27 2016  Quant Results File: 1PST3988.RES

Method       : C:\MSDCHEM\1\METHODS\1PST3988.M (Chemstation Integrator)
Title        : PEST/PCB
Last Update  : Mon May 16 09:01:14 2016
Response via : Multiple Level Calibration
```





QEdit

(2) Tetrachloro-m-xylene (SAB)

1.93min 1.032PPB m

response 1593097

(2) Tetrachloro-m-xylene #2 (SAB)

2.29min 1.032PPB

response 13048604

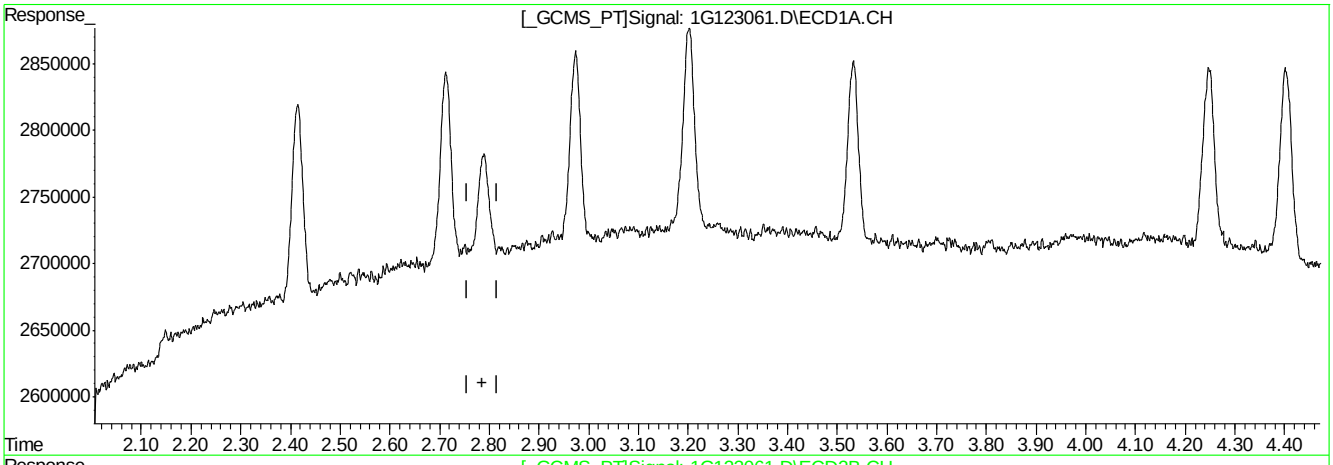
(+) = Expected Retention Time

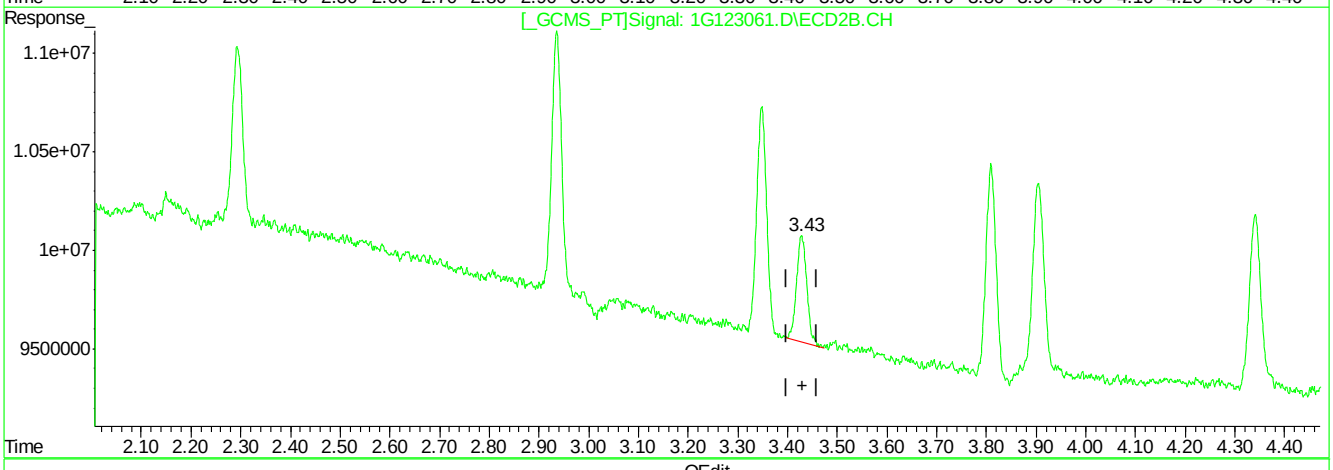
1G123061.D 1PST3988.M Mon May 16 12:28:03 2016 RPT1

Quantitation Report (Qedit)

```
Signal #1 : C:\MSDCHEM\1\DATA\1G3988\1G123061.D\ECD1A.CH Vial: 6
Signal #2 : C:\MSDCHEM\1\DATA\1G3988\1G123061.D\ECD2B.CH
Acq On    : 16 May 2016  10:11 am                    Operator: thomasl
Sample    : ic3988-1                                 Inst    : GC1G
Misc      : op93854,g1g3988,930,,,10,1               Multiplr: 1.00
IntFile Signal #1: autoint1.e     IntFile Signal #2: autoint2.e
Quant Time: May 16 12:27 2016  Quant Results File: 1PST3988.RES


Method       : C:\MSDCHEM\1\METHODS\1PST3988.M (Chemstation Integrator)
Title        : PEST/PCB
Last Update  : Mon May 16 09:01:14 2016
Response via : Multiple Level Calibration
```





QEdit

(6) beta-BHC (B)

0.00min 0.000PPB

response 0

(6) beta-BHC #2 (B)

3.43min 1.022PPB

response 7800568

(+) = Expected Retention Time

1G123061.D 1PST3988.M Mon May 16 12:28:09 2016 RPT1

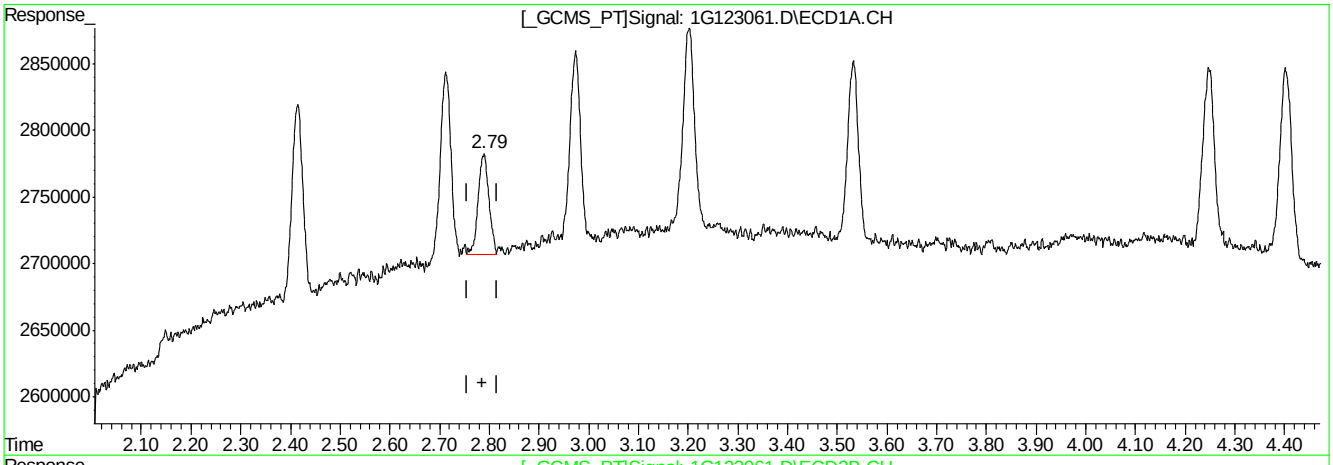
11.6.1.4

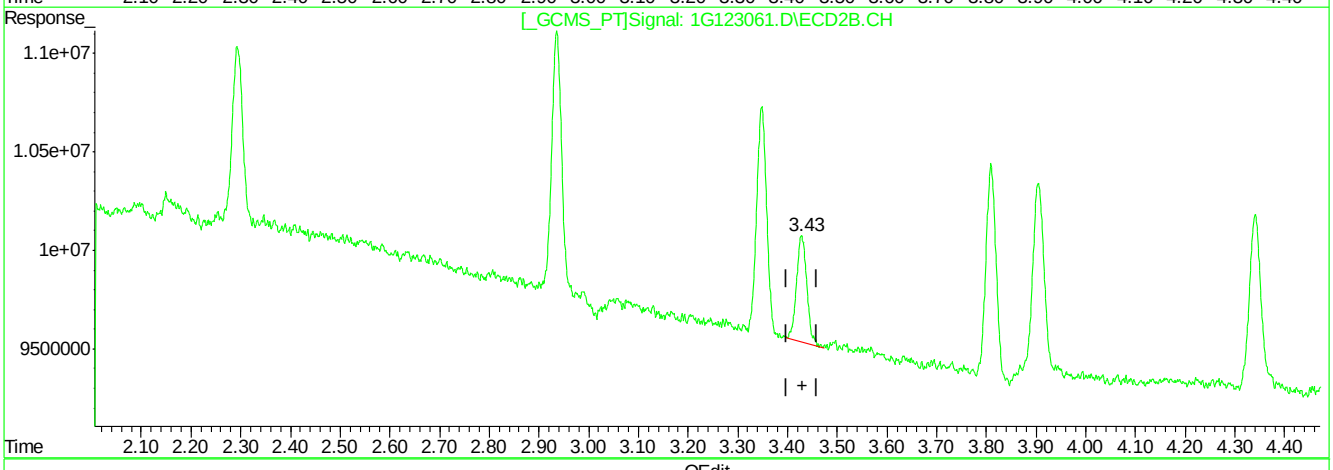
11

Quantitation Report (Qedit)

```
Signal #1 : C:\MSDCHEM\1\DATA\1G3988\1G123061.D\ECD1A.CH Vial: 6
Signal #2 : C:\MSDCHEM\1\DATA\1G3988\1G123061.D\ECD2B.CH
Acq On    : 16 May 2016  10:11 am                    Operator: thomasl
Sample    : ic3988-1                                 Inst    : GC1G
Misc      : op93854,g1g3988,930,,,10,1               Multiplr: 1.00
IntFile Signal #1: autoint1.e     IntFile Signal #2: autoint2.e
Quant Time: May 16 12:27 2016  Quant Results File: 1PST3988.RES


Method       : C:\MSDCHEM\1\METHODS\1PST3988.M (Chemstation Integrator)
Title        : PEST/PCB
Last Update  : Mon May 16 09:01:14 2016
Response via : Multiple Level Calibration
```





QEdit

(6) beta-BHC (B)

2.79min 1.050PPB m

response 1135172

(6) beta-BHC #2 (B)

3.43min 1.022PPB

response 7800568

(+) = Expected Retention Time

1G123061.D 1PST3988.M Mon May 16 12:28:17 2016 RPT1

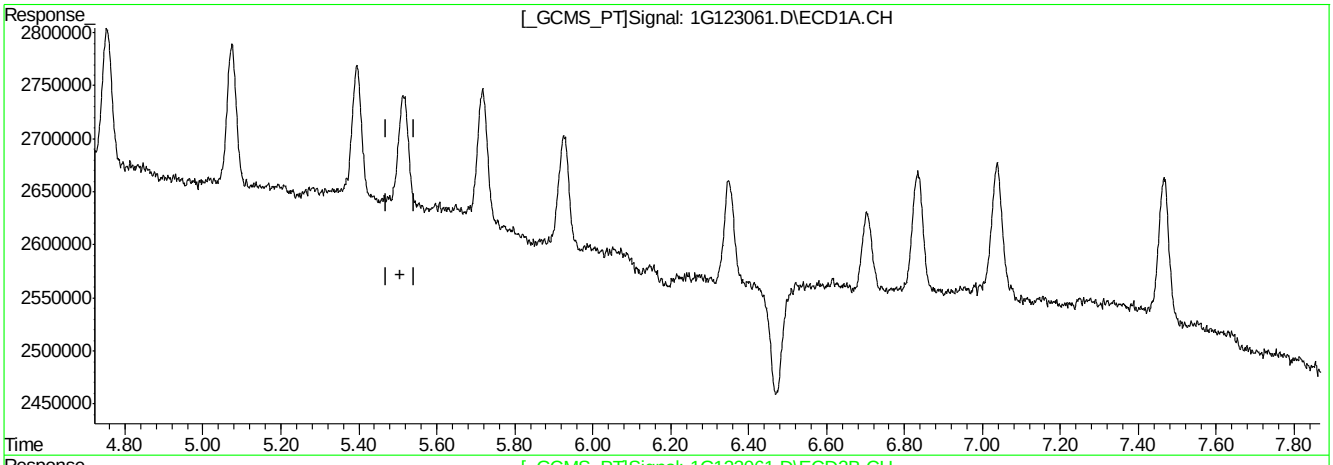
11.6.1.5

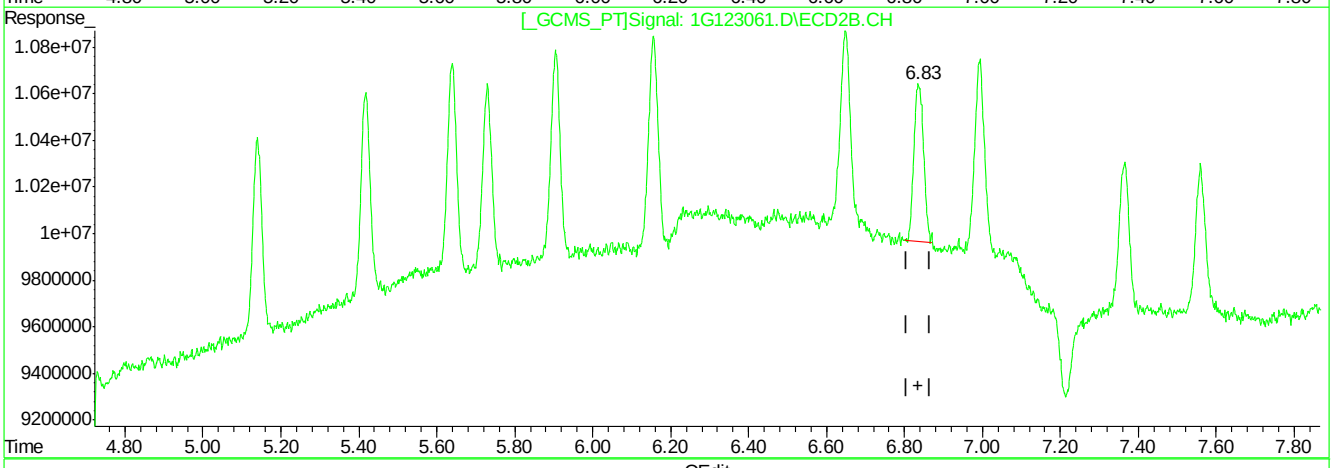
11

Quantitation Report (Qedit)

Signal #1 : C:\MSDCHEM\1\DATA\1G3988\1G123061.D\ECD1A.CH Vial: 6
Signal #2 : C:\MSDCHEM\1\DATA\1G3988\1G123061.D\ECD2B.CH
Acq On : 16 May 2016 10:11 am Operator: thomasl
Sample : ic3988-1 Inst : GC1G
Misc : op93854,g1g3988,930,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: May 16 12:27 2016 Quant Results File: 1PST3988.RES

Method : C:\MSDCHEM\1\METHODS\1PST3988.M (Chemstation Integrator)
Title : PEST/PCB
Last Update : Mon May 16 09:01:14 2016
Response via : Multiple Level Calibration





QEdit

(16) 4,4'-DDD (A)

0.00min 0.000PPB

response 0

(16) 4,4'-DDD #2 (A)

6.84min 1.008PPB

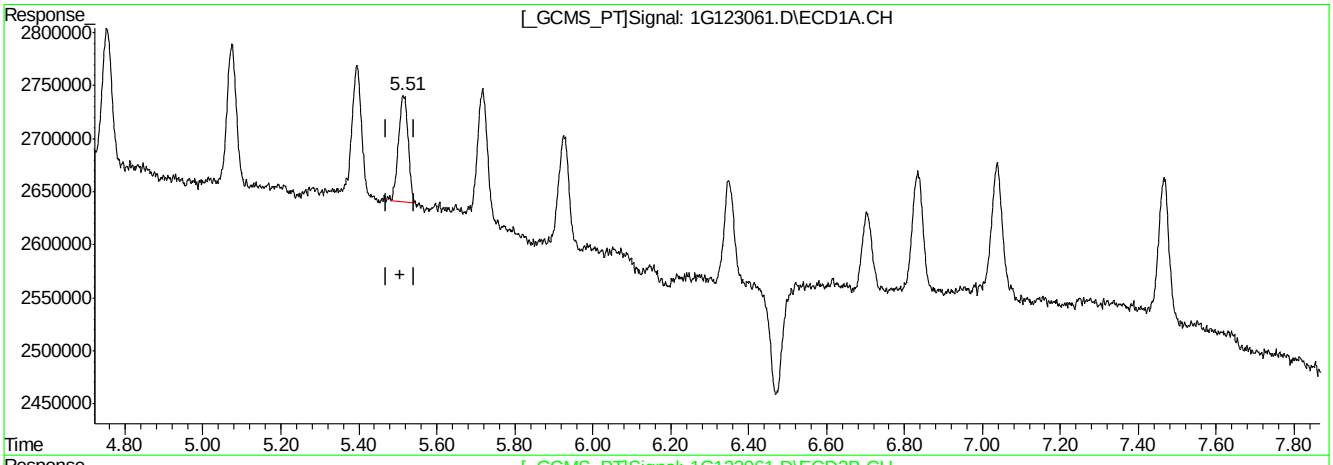
response 11581992

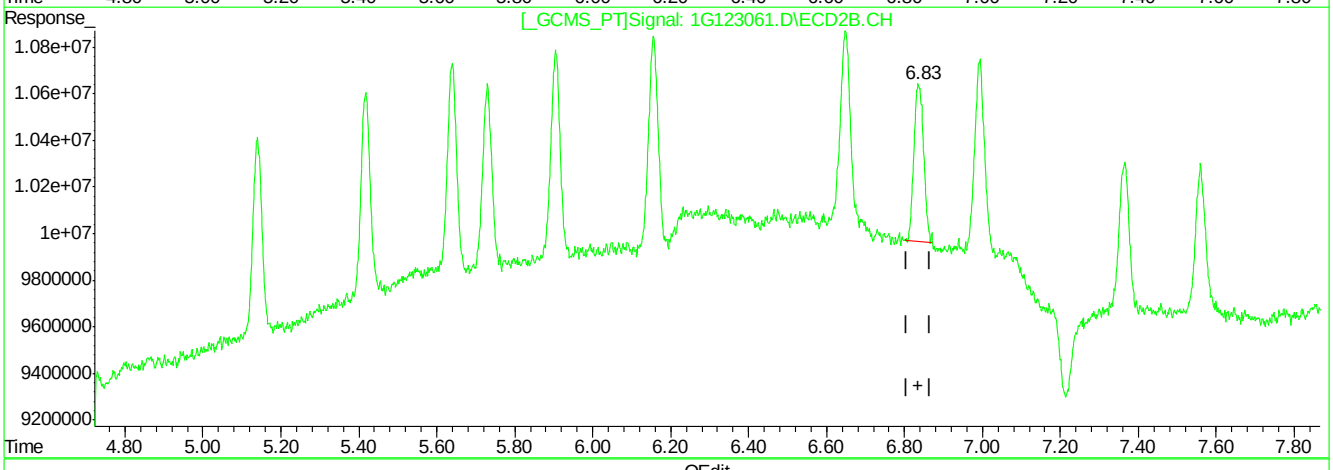
(+) = Expected Retention Time
1G123061.D 1PST3988.M Mon May 16 12:28:28 2016 RPT1

Quantitation Report (Qedit)

Signal #1 : C:\MSDCHEM\1\DATA\1G3988\1G123061.D\ECD1A.CH Vial: 6
Signal #2 : C:\MSDCHEM\1\DATA\1G3988\1G123061.D\ECD2B.CH
Acq On : 16 May 2016 10:11 am Operator: thomasl
Sample : ic3988-1 Inst : GC1G
Misc : op93854,g1g3988,930,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: May 16 12:27 2016 Quant Results File: 1PST3988.RES

Method : C:\MSDCHEM\1\METHODS\1PST3988.M (Chemstation Integrator)
Title : PEST/PCB
Last Update : Mon May 16 09:01:14 2016
Response via : Multiple Level Calibration





QEdit

(16) 4,4'-DDD (A)

5.51min 0.985PPB m

response 1723248

(16) 4,4'-DDD #2 (A)

6.84min 1.008PPB

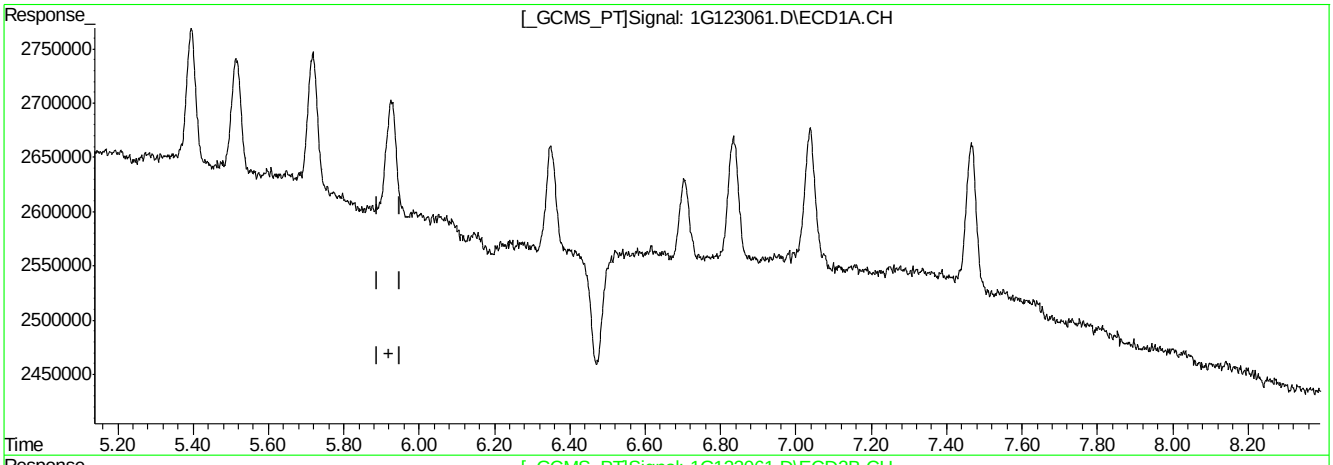
response 11581992

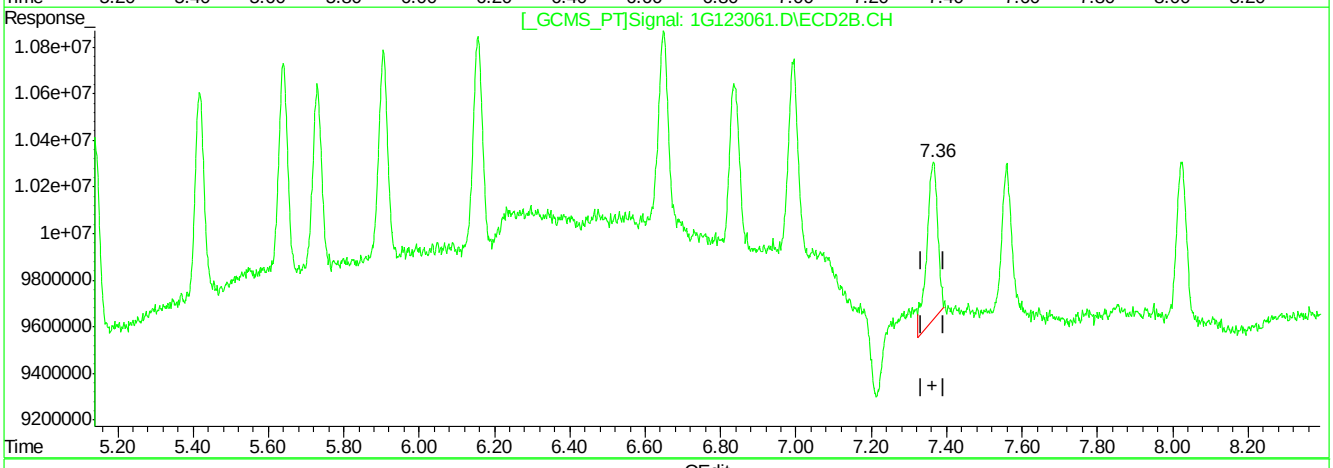
(+) = Expected Retention Time
1G123061.D 1PST3988.M Mon May 16 12:28:40 2016 RPT1

Quantitation Report (Qedit)

```
Signal #1 : C:\MSDCHEM\1\DATA\1G3988\1G123061.D\ECD1A.CH Vial: 6
Signal #2 : C:\MSDCHEM\1\DATA\1G3988\1G123061.D\ECD2B.CH
Acq On    : 16 May 2016  10:11 am                    Operator: thomasl
Sample    : ic3988-1                                 Inst    : GC1G
Misc      : op93854,g1g3988,930,,,10,1               Multiplr: 1.00
IntFile Signal #1: autoint1.e     IntFile Signal #2: autoint2.e
Quant Time: May 16 12:27 2016  Quant Results File: 1PST3988.RES


Method       : C:\MSDCHEM\1\METHODS\1PST3988.M (Chemstation Integrator)
Title        : PEST/PCB
Last Update  : Mon May 16 09:01:14 2016
Response via : Multiple Level Calibration
```





QEdit

(18) 4,4'-DDT (MA)

0.00min 0.000PPB

response 0

(18) 4,4'-DDT #2 (MA)

7.36min 1.322PPB

response 13552736

(+) = Expected Retention Time

1G123061.D 1PST3988.M Mon May 16 12:28:45 2016 RPT1

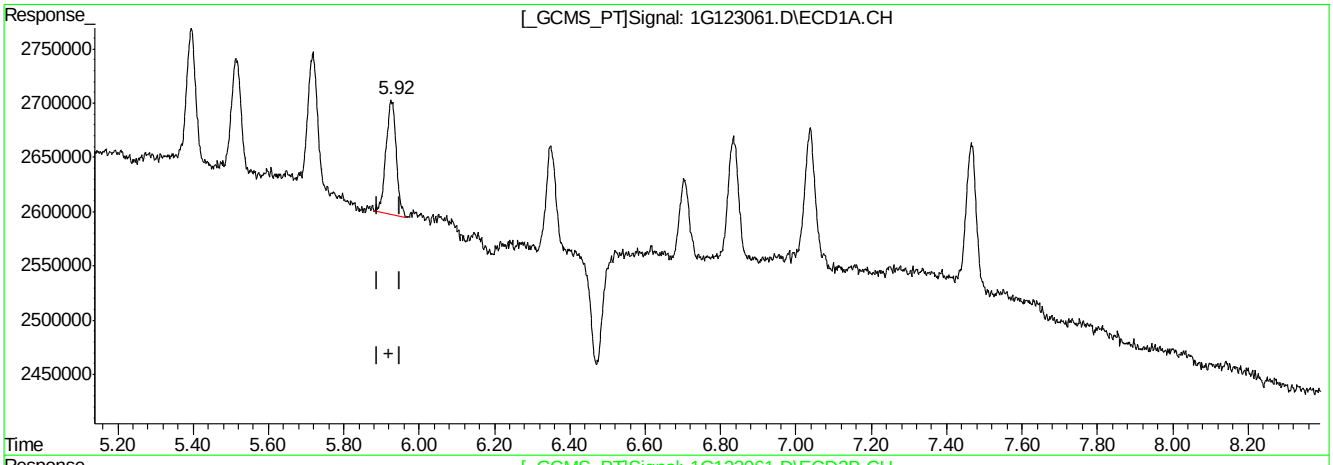
11.6.1.8

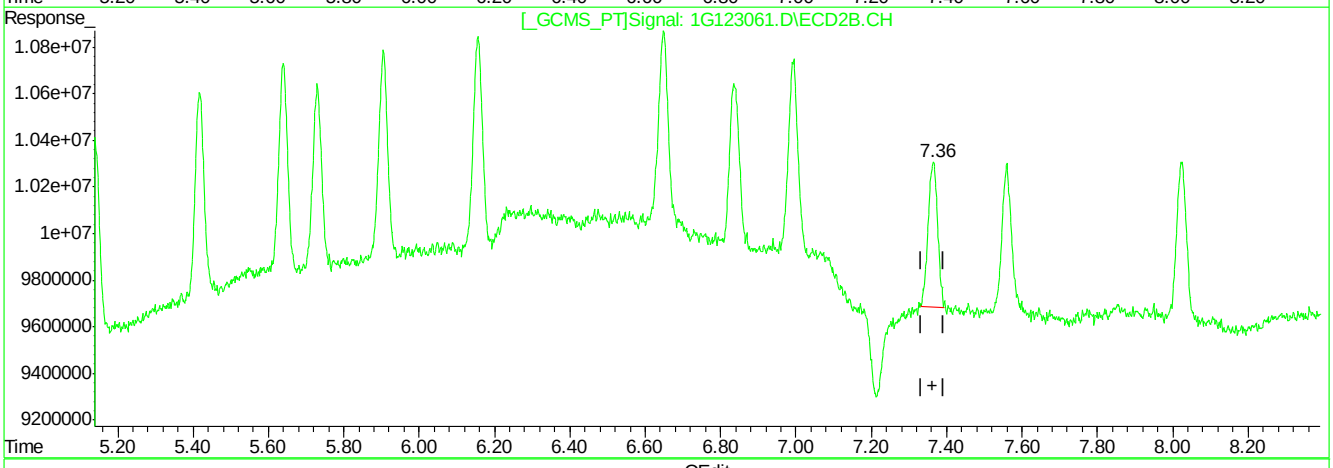
11

Quantitation Report (Qedit)

```
Signal #1 : C:\MSDCHEM\1\DATA\1G3988\1G123061.D\ECD1A.CH Vial: 6
Signal #2 : C:\MSDCHEM\1\DATA\1G3988\1G123061.D\ECD2B.CH
Acq On    : 16 May 2016  10:11 am                    Operator: thomasl
Sample    : ic3988-1                                 Inst    : GC1G
Misc      : op93854,g1g3988,930,,,10,1               Multiplr: 1.00
IntFile Signal #1: autoint1.e     IntFile Signal #2: autoint2.e
Quant Time: May 16 12:27 2016  Quant Results File: 1PST3988.RES


Method       : C:\MSDCHEM\1\METHODS\1PST3988.M (Chemstation Integrator)
Title        : PEST/PCB
Last Update  : Mon May 16 09:01:14 2016
Response via : Multiple Level Calibration
```





QEdit

(18) 4,4'-DDT (MA)

5.92min 1.050PPB m

response 1997680

(18) 4,4'-DDT #2 (MA)

7.36min 1.049PPB m

response 10752582

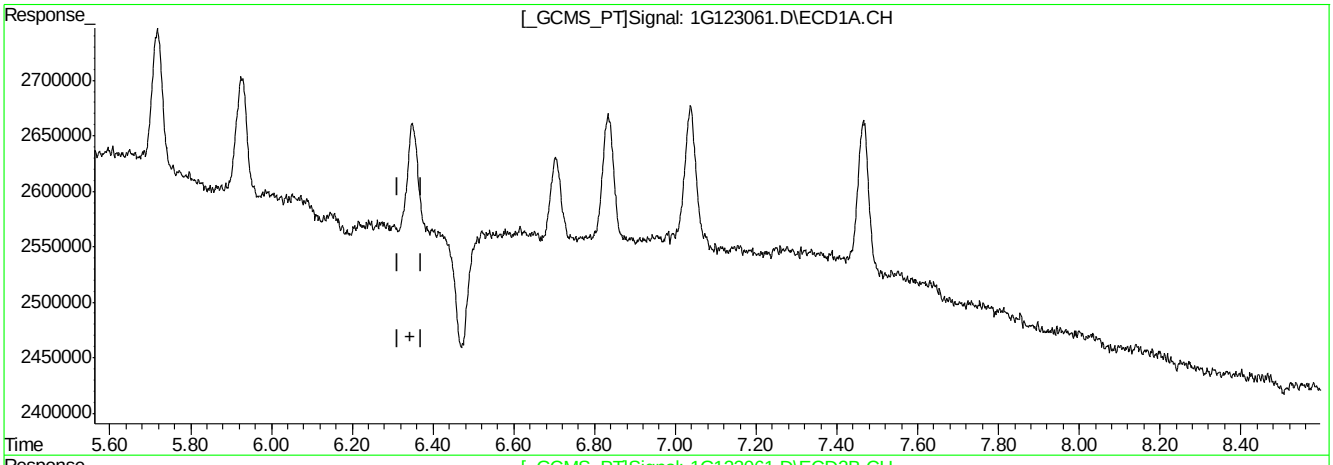
(+) = Expected Retention Time

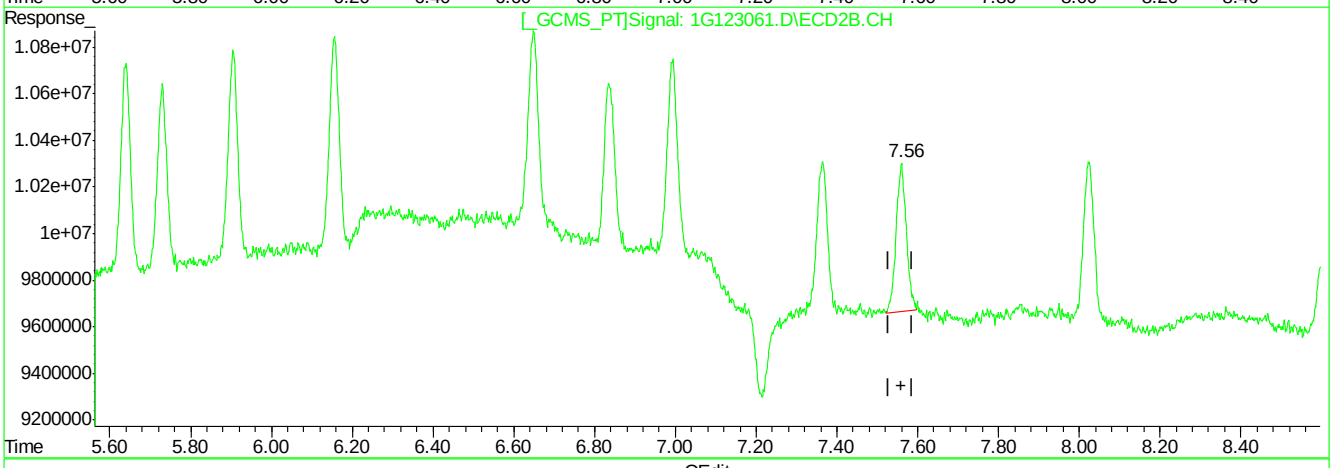
1G123061.D 1PST3988.M Mon May 16 12:29:18 2016 RPT1

Quantitation Report (Qedit)

```
Signal #1 : C:\MSDCHEM\1\DATA\1G3988\1G123061.D\ECD1A.CH Vial: 6
Signal #2 : C:\MSDCHEM\1\DATA\1G3988\1G123061.D\ECD2B.CH
Acq On    : 16 May 2016  10:11 am                    Operator: thomasl
Sample    : ic3988-1                                 Inst    : GC1G
Misc      : op93854,g1g3988,930,,,10,1               Multiplr: 1.00
IntFile Signal #1: autoint1.e     IntFile Signal #2: autoint2.e
Quant Time: May 16 12:27 2016  Quant Results File: 1PST3988.RES

Method       : C:\MSDCHEM\1\METHODS\1PST3988.M (Chemstation Integrator)
Title        : PEST/PCB
Last Update  : Mon May 16 09:01:14 2016
Response via : Multiple Level Calibration
```





QEdit

(19) Endrin Aldehyde (B)

0.00min 0.000PPB

response 0

(19) Endrin Aldehyde #2 (B)

7.56min 1.188PPB

response 11015067

(+) = Expected Retention Time

1G123061.D 1PST3988.M Mon May 16 12:29:21 2016 RPT1

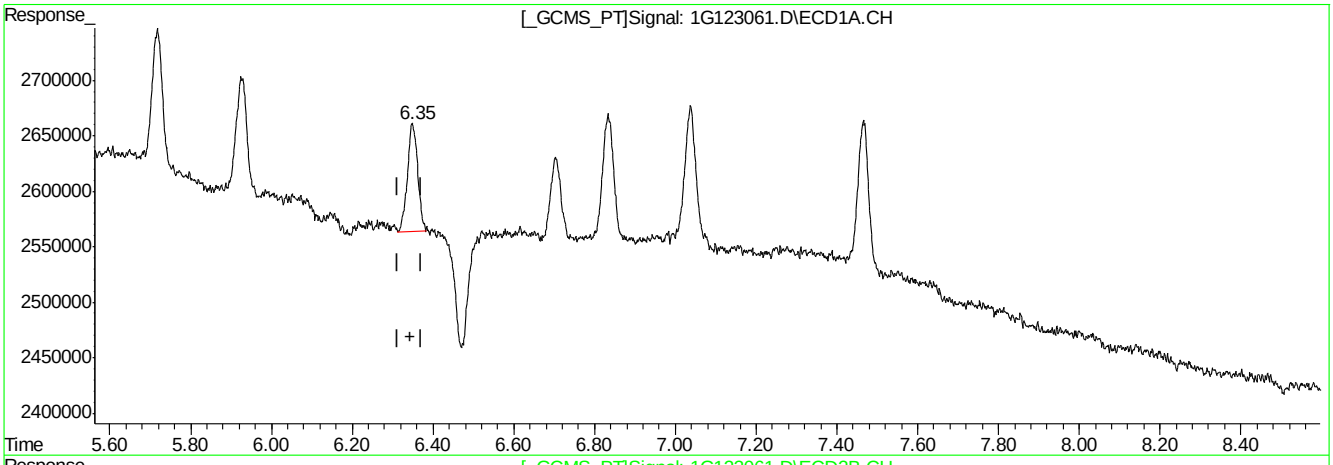
11.6.1.10

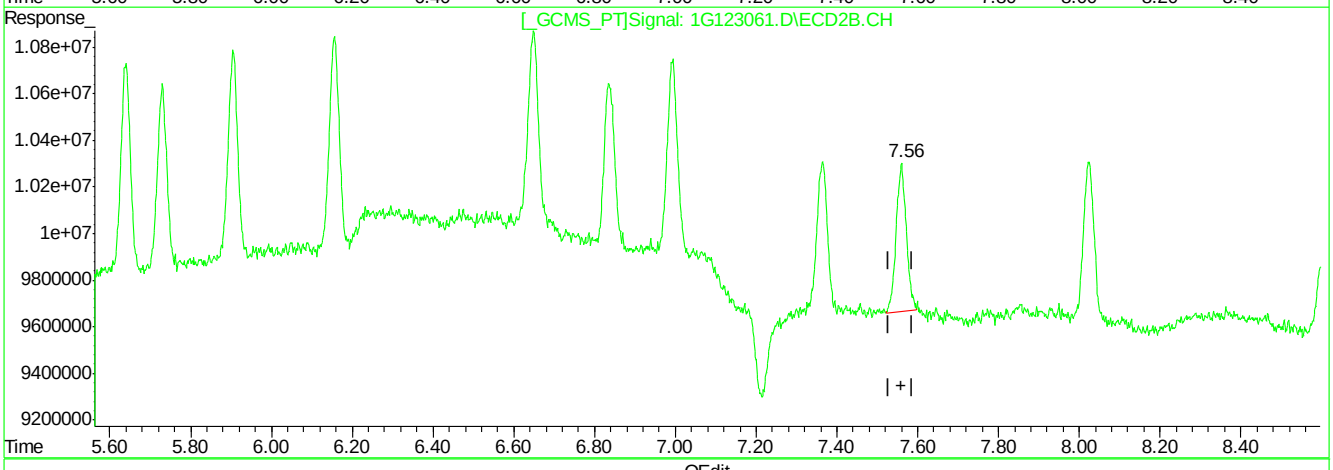
11

Quantitation Report (Qedit)

```
Signal #1 : C:\MSDCHEM\1\DATA\1G3988\1G123061.D\ECD1A.CH Vial: 6
Signal #2 : C:\MSDCHEM\1\DATA\1G3988\1G123061.D\ECD2B.CH
Acq On    : 16 May 2016  10:11 am                    Operator: thomasl
Sample    : ic3988-1                                 Inst    : GC1G
Misc      : op93854,g1g3988,930,,,10,1               Multiplr: 1.00
IntFile Signal #1: autoint1.e     IntFile Signal #2: autoint2.e
Quant Time: May 16 12:27 2016  Quant Results File: 1PST3988.RES

Method       : C:\MSDCHEM\1\METHODS\1PST3988.M (Chemstation Integrator)
Title        : PEST/PCB
Last Update  : Mon May 16 09:01:14 2016
Response via : Multiple Level Calibration
```





QEdit

(19) Endrin Aldehyde (B)

6.35min 1.117PPB m

response 1723536

(19) Endrin Aldehyde #2 (B)

7.56min 1.188PPB

response 11015067

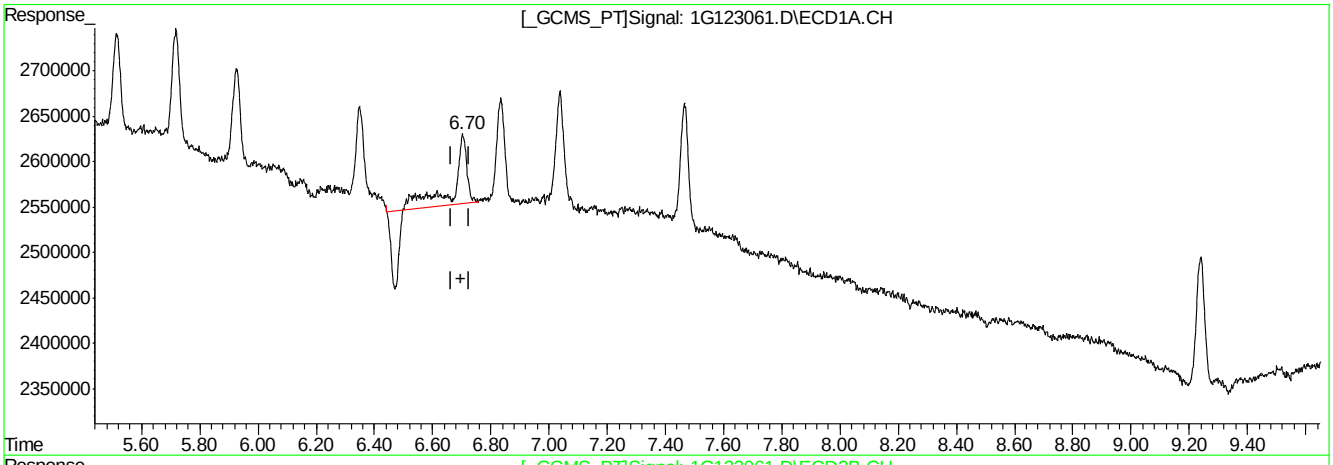
(+) = Expected Retention Time

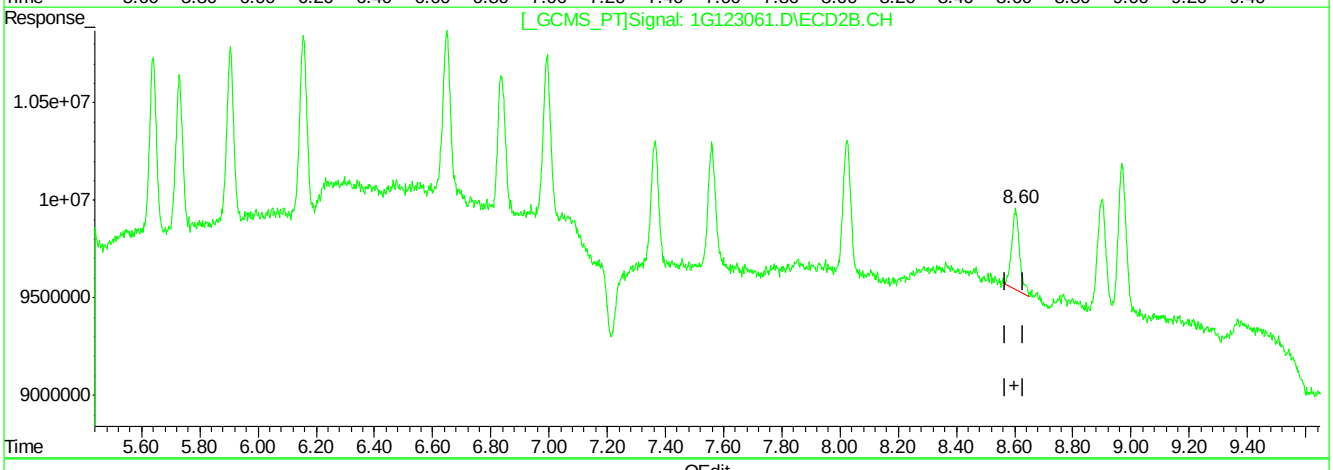
1G123061.D 1PST3988.M Mon May 16 12:29:30 2016 RPT1

Quantitation Report (Qedit)

```
Signal #1 : C:\MSDCHEM\1\DATA\1G3988\1G123061.D\ECD1A.CH Vial: 6
Signal #2 : C:\MSDCHEM\1\DATA\1G3988\1G123061.D\ECD2B.CH
Acq On    : 16 May 2016  10:11 am                    Operator: thomasl
Sample    : ic3988-1                                 Inst    : GC1G
Misc      : op93854,g1g3988,930,,,10,1               Multiplr: 1.00
IntFile Signal #1: autoint1.e     IntFile Signal #2: autoint2.e
Quant Time: May 16 12:27 2016  Quant Results File: 1PST3988.RES

Method       : C:\MSDCHEM\1\METHODS\1PST3988.M (Chemstation Integrator)
Title        : PEST/PCB
Last Update  : Mon May 16 09:01:14 2016
Response via : Multiple Level Calibration
```





QEdit

(21) Methoxychlor (A)

6.70min 1.199PPB

response 1190508

(21) Methoxychlor #2 (A)

8.60min 1.543PPB

response 7701428

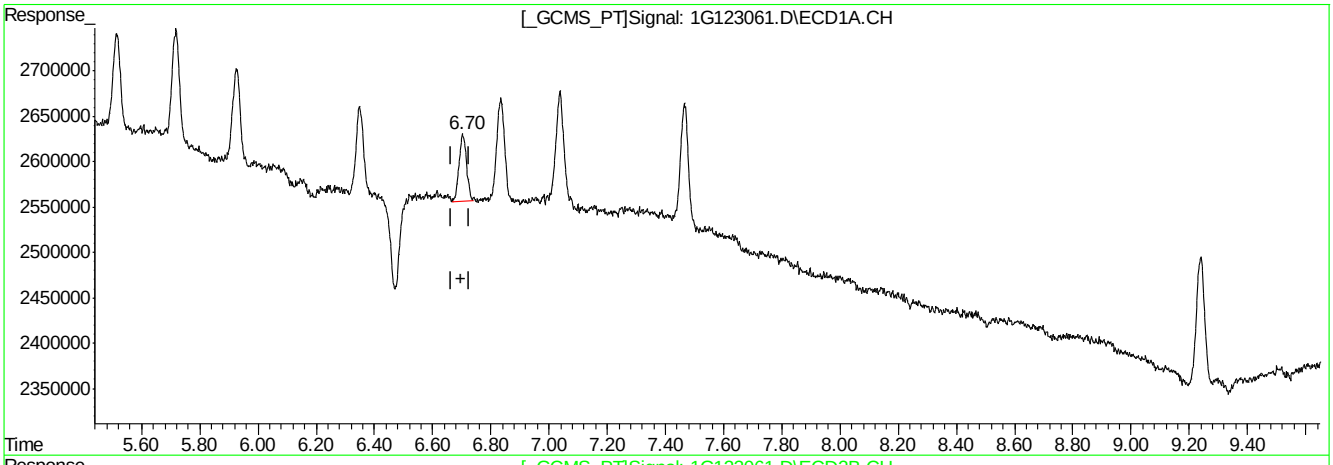
(+) = Expected Retention Time

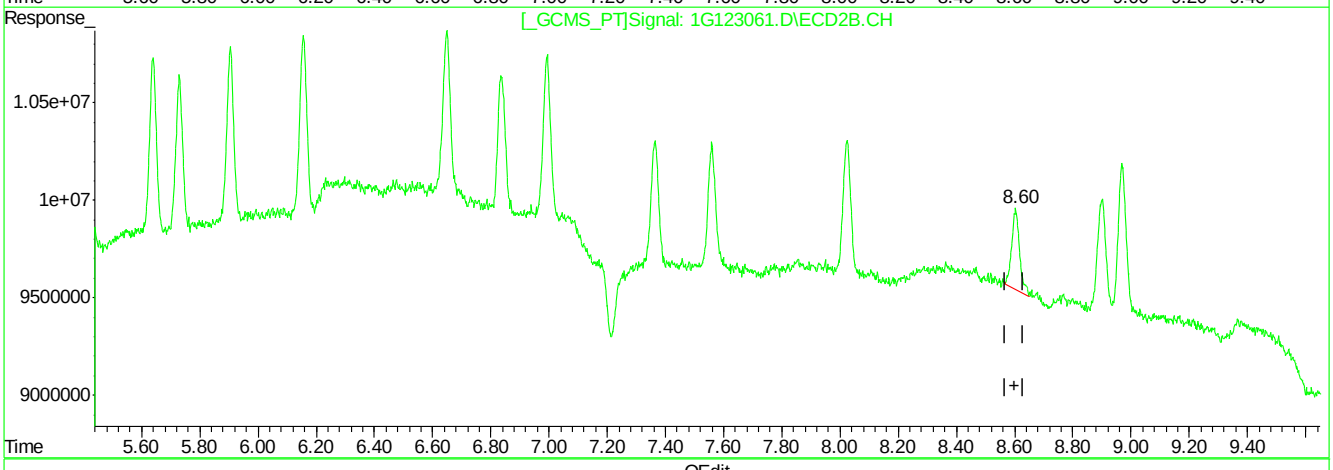
1G123061.D 1PST3988.M Mon May 16 12:29:34 2016 RPT1

Quantitation Report (Qedit)

```
Signal #1 : C:\MSDCHEM\1\DATA\1G3988\1G123061.D\ECD1A.CH Vial: 6
Signal #2 : C:\MSDCHEM\1\DATA\1G3988\1G123061.D\ECD2B.CH
Acq On    : 16 May 2016  10:11 am                    Operator: thomasl
Sample    : ic3988-1                                 Inst    : GC1G
Misc      : op93854,g1g3988,930,,,10,1               Multiplr: 1.00
IntFile Signal #1: autoint1.e     IntFile Signal #2: autoint2.e
Quant Time: May 16 12:27 2016  Quant Results File: 1PST3988.RES


Method       : C:\MSDCHEM\1\METHODS\1PST3988.M (Chemstation Integrator)
Title        : PEST/PCB
Last Update  : Mon May 16 09:01:14 2016
Response via : Multiple Level Calibration
```





QEdit

(21) Methoxychlor (A)

6.70min 1.342PPB m

response 1332584

(21) Methoxychlor #2 (A)

8.60min 1.543PPB

response 7701428

(+) = Expected Retention Time

1G123061.D 1PST3988.M Mon May 16 12:29:42 2016 RPT1

11.6.1.13

11

Manual Integrations APPROVED (compounds with "m" flag)
Gwendolyn Burns
05/16/16 17:43

Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\1G3988\1G123062.D\ECD1A.CH Vial: 7
Signal #2 : C:\MSDCHEM\1\DATA\1G3988\1G123062.D\ECD2B.CH
Acq On : 16 May 2016 10:28 am Operator: thomasl
Sample : ic3988-2 Inst : GC1G
Misc : op93854,g1g3988,930,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: May 16 13:24 2016 Quant Results File: 1PST3988.RES

Quant Method : C:\MSDCHEM\1\METHODS\1PST3988.M (Chemstation Integrator)
Title : PEST/PCB
Last Update : Mon May 16 09:01:14 2016
Response via : Initial Calibration
DataAcq Meth : 1PST3988.M

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.50um Signal #2 Info : 30m x .32mm x .25um

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	Internal Standards						
1) I	1-bromo-2-nitrob	1.33	1.49	117.0E6	867.0E6	50.000	50.000
	System Monitoring Compounds						
2) SAB	Tetrachloro-m-xy	1.92	2.29	3768744	32599980	2.044	2.282
	Spiked Amount 40.000	Range 30 - 150		Recovery	=	5.11%#	5.71%#
24) SA	Decachlorobiphen	9.23	10.68	6069623	23070405	2.332	2.302
	Spiked Amount 40.000			Recovery	=	5.83%	5.76%
	Target Compounds						
3) A	alpha-BHC	2.41	2.94	5320474	48837024	1.868	2.301
4) MA	gamma-BHC	2.71	3.35	5018534	44847471	1.886m	2.335
5) MA	Heptachlor	3.20	3.90	5445600	44161193	2.001	2.449
6) B	beta-BHC	2.78	3.43	2769736	21541691	2.145	2.497
7) B	delta-BHC	2.97	3.81	4807183	46590770	1.863	2.480
8) MB	Aldrin	3.53	4.34	4740046	37530736	1.838	2.209
9) B	Heptachlor Epoxi	4.24	5.14	4685771	33501205	1.863	2.206
10) B	gamma-Chlordane	4.39	5.41	5037830	33533081	2.000	2.217
11) B	alpha-Chlordane	4.56	5.64	5027448	34398295	2.030	2.311
12) A	Endosulfan I	4.75	5.73	4802907	30738861	1.953	2.189
13) B	4,4'-DDE	4.68	5.90	5044117	32973270	1.965	2.212
14) MA	Dieldrin	5.07	6.15	4870970	34619553	1.833	2.246
15) MA	Endrin	5.39	6.65	4597980	30785656	1.930	2.593
16) A	4,4'-DDD	5.51	6.84	3866996	26908810	1.852	2.073
17) B	Endosulfan II	5.71	6.99	4782891	32023828	1.940	2.127
18) MA	4,4'-DDT	5.92	7.36	4038475	26426436	1.778	2.282
19) B	Endrin Aldehyde	6.34	7.56	3844888	23619944	2.087	2.253
20) B	Endosulfan Sulfa	7.03	8.02	4353332	27916601	2.218	2.466
21) A	Methoxychlor	6.70	8.60	2673330	14224405	2.255m	2.522m
22)	Mirex	6.83	8.90	4711419	23364971	2.293	2.351
23) B	Endrin Ketone	7.46	8.97	4883106	31085411	2.222	2.465

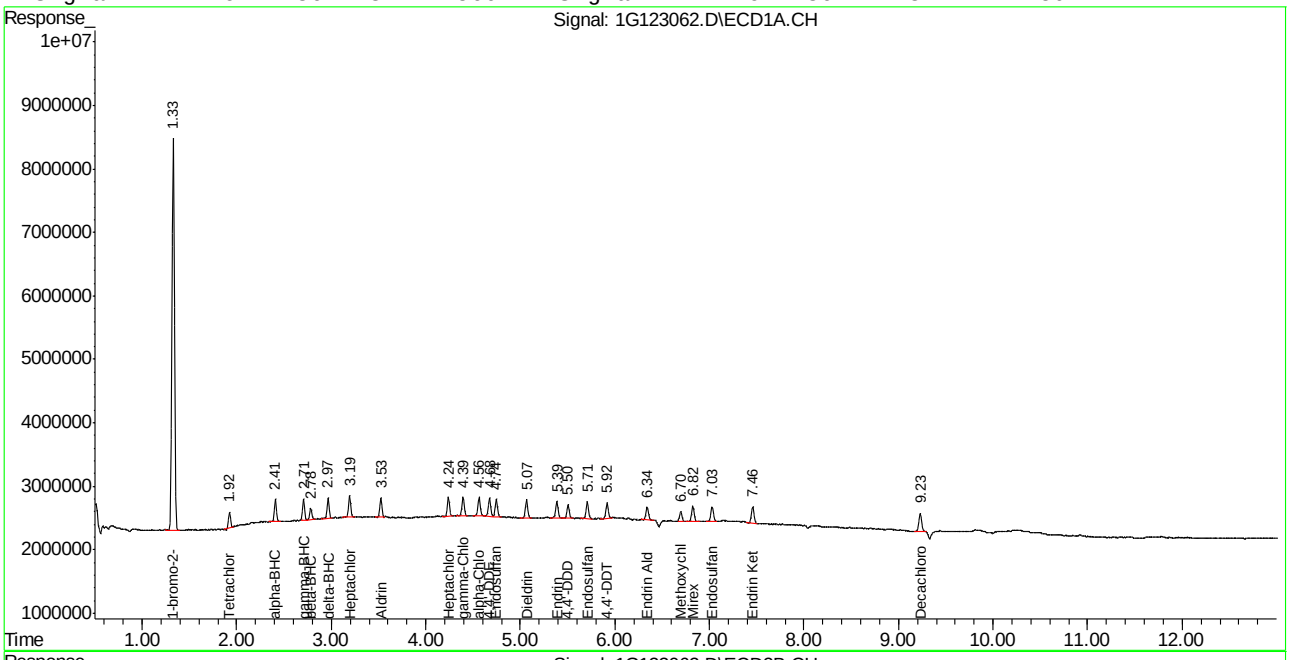
(f)=RT Delta > 1/2 Window (m)=manual int.

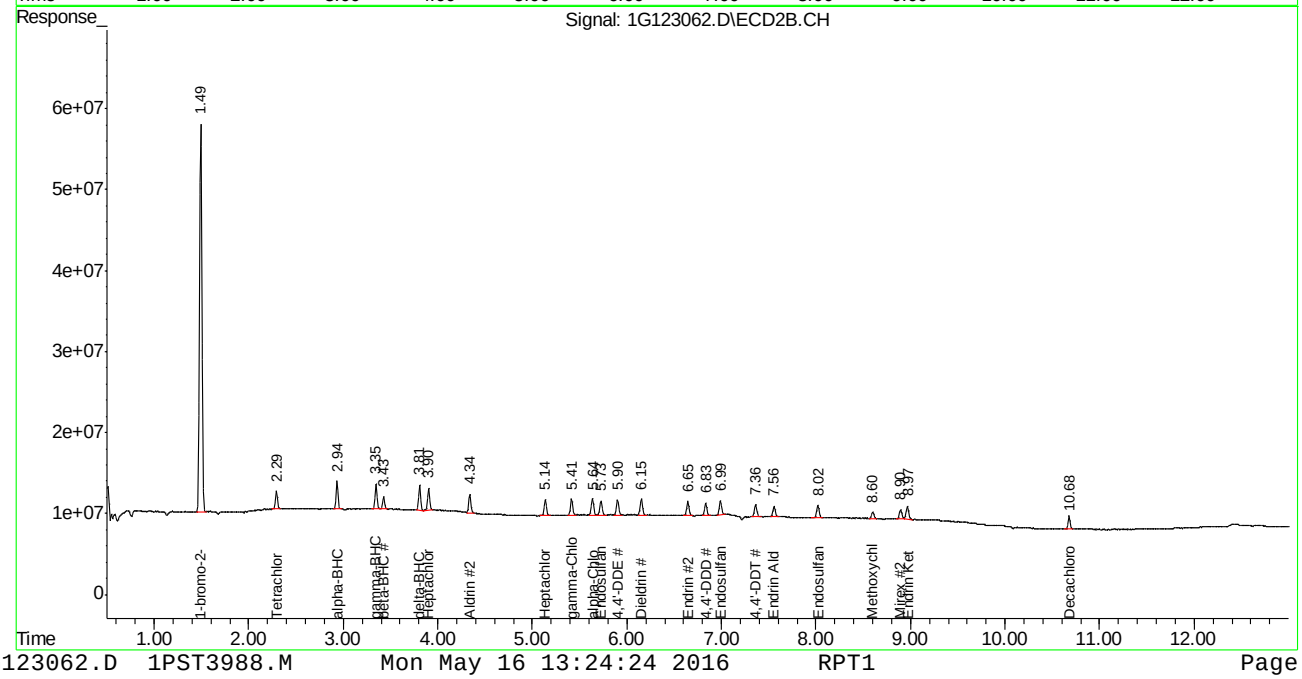
Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\1G3988\1G123062.D\ECD1A.CH Vial: 7
Signal #2 : C:\MSDCHEM\1\DATA\1G3988\1G123062.D\ECD2B.CH
Acq On : 16 May 2016 10:28 am Operator: thomasl
Sample : ic3988-2 Inst : GC1G
Misc : op93854,g1g3988,930,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: May 16 13:24 2016 Quant Results File: 1PST3988.RES

Quant Method : C:\MSDCHEM\1\METHODS\1PST3988.M (Chemstation Integrator)
Title : PEST/PCB
Last Update : Mon May 16 09:01:14 2016
Response via : Multiple Level Calibration
DataAcq Meth : 1PST3988.M

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.50um Signal #2 Info : 30m x .32mm x .25um





SGS ACCUTEST JC21347

Manual Integration Approval Summary

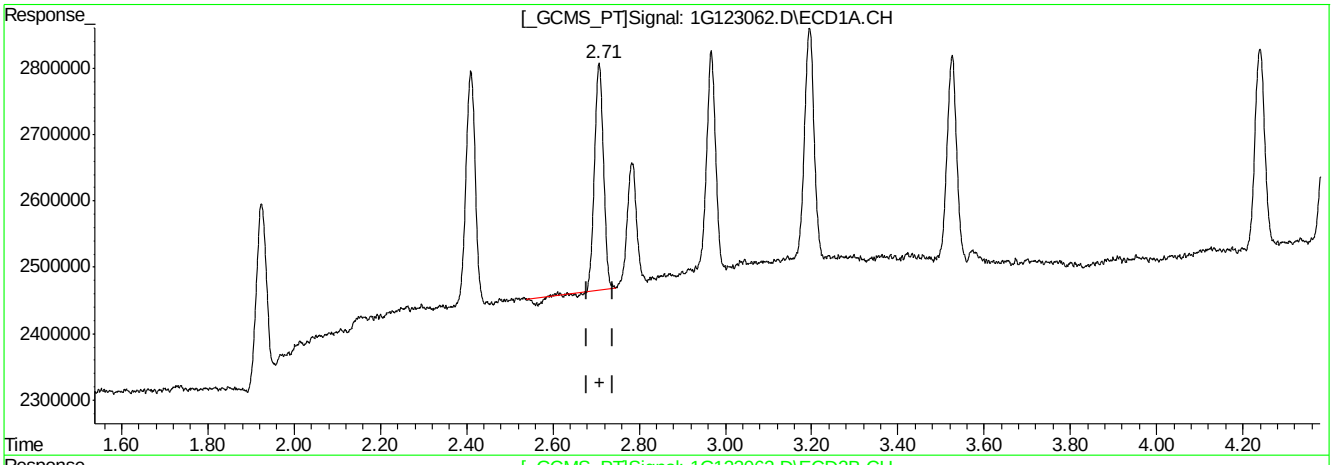
Sample Number:	G1G3988-IC3988	**Method:**	SW846 8081B
Lab FileID:	1G123062.D	**Analyst approved:**	05/16/16 15:18 Dhara Saparia
Injection Time:	05/16/16 10:28	**Supervisor approved:**	05/16/16 17:43 Gwendolyn Burns

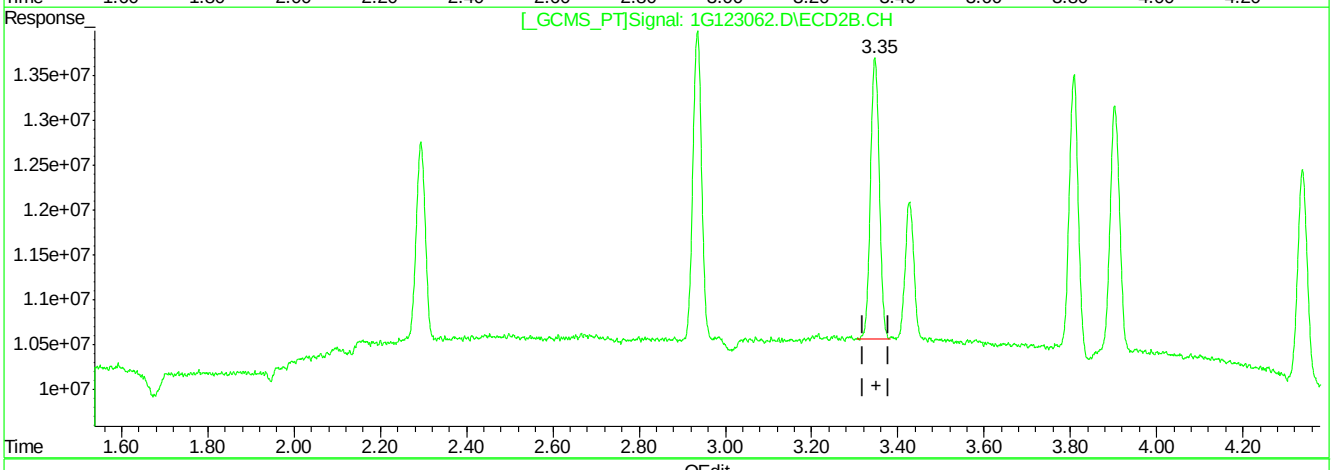
Parameter	CAS	Sig#	R.T. (min.)	Reason
gamma-BHC (Lindane)	58-89-9	1	2.71	Poor instrument integration
Methoxychlor	72-43-5	1	6.70	Poor instrument integration
Methoxychlor	72-43-5	2	8.60	Poor instrument integration

Quantitation Report (Qedit)

```
Signal #1 : C:\MSDCHEM\1\DATA\1G3988\1G123062.D\ECD1A.CH Vial: 7
Signal #2 : C:\MSDCHEM\1\DATA\1G3988\1G123062.D\ECD2B.CH
Acq On    : 16 May 2016  10:28 am                    Operator: thomasl
Sample    : ic3988-2                                 Inst    : GC1G
Misc      : op93854,g1g3988,930,,,10,1               Multiplr: 1.00
IntFile Signal #1: autoint1.e     IntFile Signal #2: autoint2.e
Quant Time: May 16 12:13 2016  Quant Results File: 1PST3988.RES


Method       : C:\MSDCHEM\1\METHODS\1PST3988.M (Chemstation Integrator)
Title        : PEST/PCB
Last Update  : Mon May 16 09:01:14 2016
Response via : Multiple Level Calibration
```





QEdit

(4) gamma-BHC (MA)

2.71min 1.804PPB

response 4799798

(4) gamma-BHC #2 (MA)

3.35min 2.335PPB

response 44847471

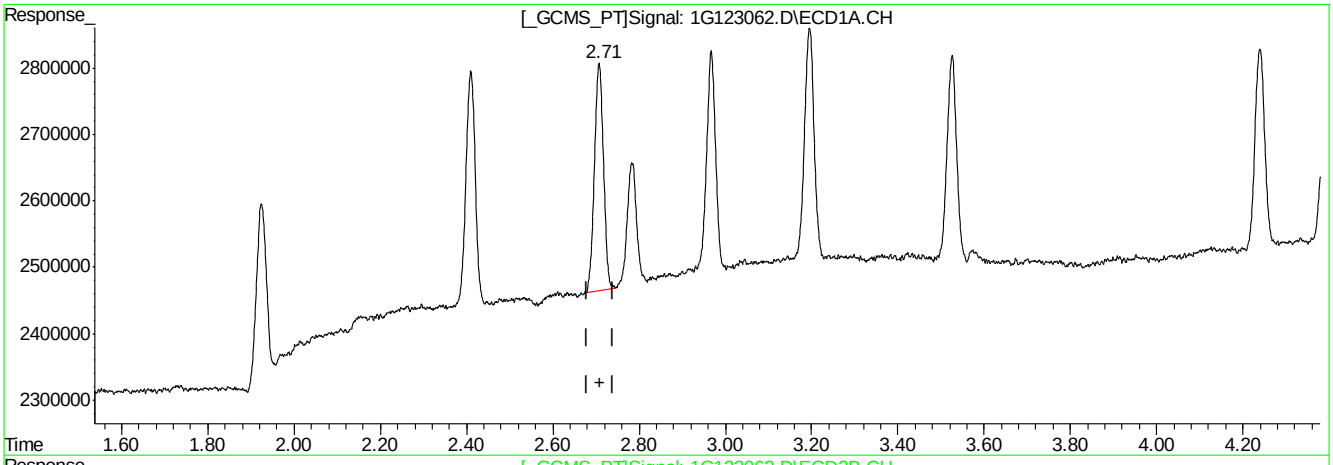
(+) = Expected Retention Time

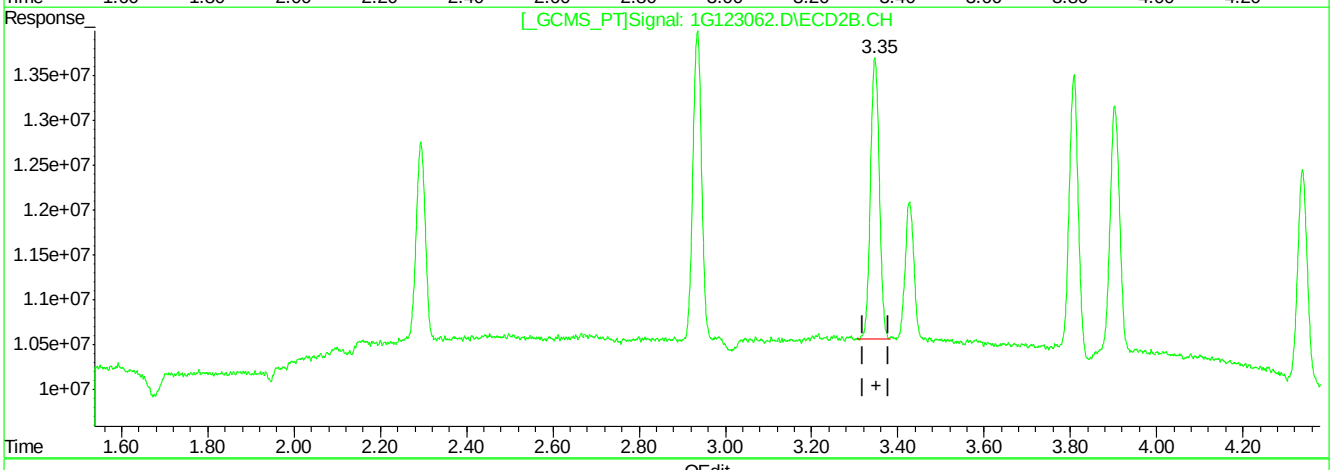
1G123062.D 1PST3988.M Mon May 16 12:13:40 2016 RPT1

Quantitation Report (Qedit)

```
Signal #1 : C:\MSDCHEM\1\DATA\1G3988\1G123062.D\ECD1A.CH Vial: 7
Signal #2 : C:\MSDCHEM\1\DATA\1G3988\1G123062.D\ECD2B.CH
Acq On    : 16 May 2016  10:28 am                    Operator: thomasl
Sample    : ic3988-2                                 Inst    : GC1G
Misc      : op93854,g1g3988,930,,,10,1               Multiplr: 1.00
IntFile Signal #1: autoint1.e     IntFile Signal #2: autoint2.e
Quant Time: May 16 12:13 2016  Quant Results File: 1PST3988.RES


Method       : C:\MSDCHEM\1\METHODS\1PST3988.M (Chemstation Integrator)
Title        : PEST/PCB
Last Update  : Mon May 16 09:01:14 2016
Response via : Multiple Level Calibration
```





QEdit

(4) gamma-BHC (MA)

2.71min 1.886PPB m

response 5018534

(4) gamma-BHC #2 (MA)

3.35min 2.335PPB

response 44847471

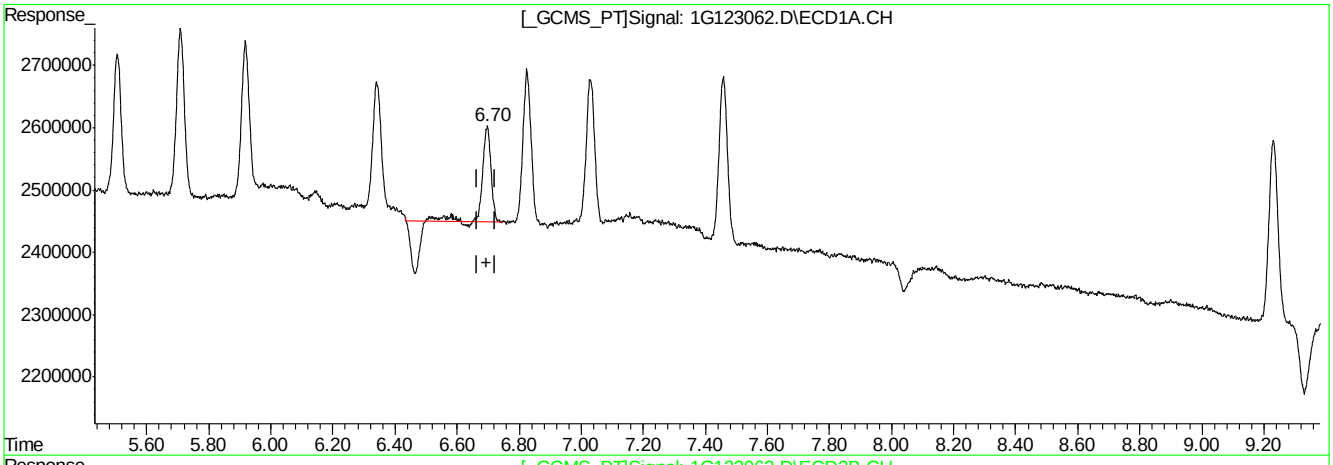
(+) = Expected Retention Time

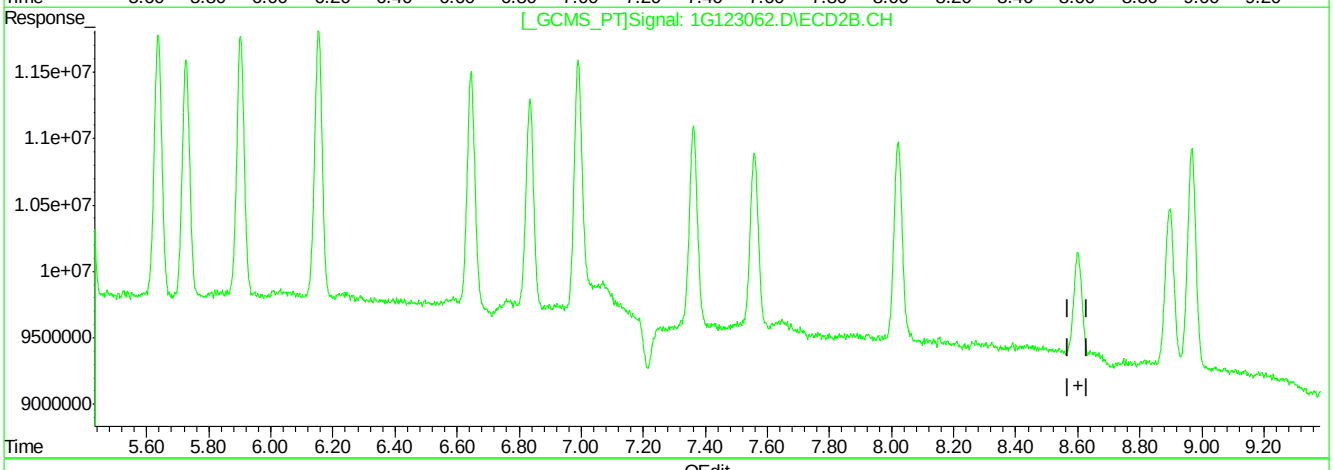
1G123062.D 1PST3988.M Mon May 16 12:13:48 2016 RPT1

Quantitation Report (Qedit)

```
Signal #1 : C:\MSDCHEM\1\DATA\1G3988\1G123062.D\ECD1A.CH Vial: 7
Signal #2 : C:\MSDCHEM\1\DATA\1G3988\1G123062.D\ECD2B.CH
Acq On    : 16 May 2016  10:28 am                    Operator: thomasl
Sample    : ic3988-2                                 Inst    : GC1G
Misc      : op93854,g1g3988,930,,,10,1               Multiplr: 1.00
IntFile Signal #1: autoint1.e     IntFile Signal #2: autoint2.e
Quant Time: May 16 12:13 2016  Quant Results File: 1PST3988.RES


Method       : C:\MSDCHEM\1\METHODS\1PST3988.M (Chemstation Integrator)
Title        : PEST/PCB
Last Update  : Mon May 16 09:01:14 2016
Response via : Multiple Level Calibration
```





QEdit

(21) Methoxychlor (A)

6.70min 1.395PPB

response 1654441

(21) Methoxychlor #2 (A)

0.00min 0.000PPB

response 0

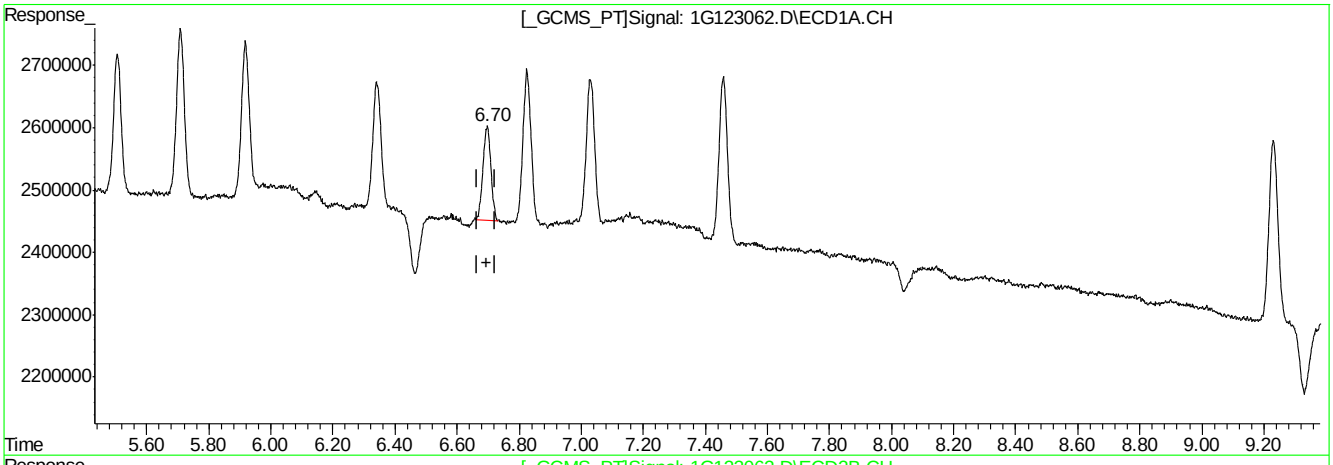
(+) = Expected Retention Time

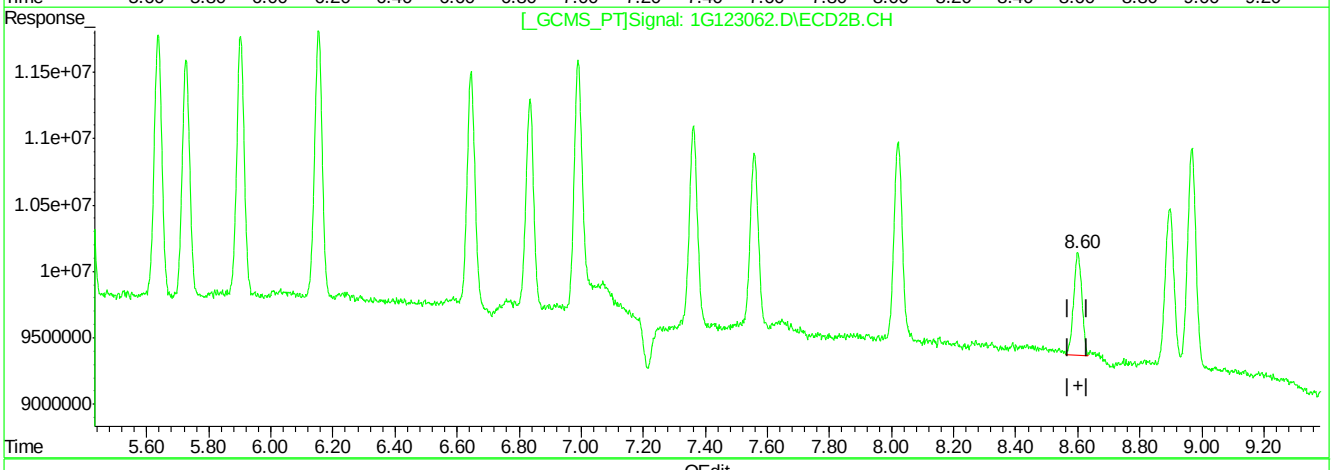
1G123062.D 1PST3988.M Mon May 16 12:14:00 2016 RPT1

Quantitation Report (Qedit)

```
Signal #1 : C:\MSDCHEM\1\DATA\1G3988\1G123062.D\ECD1A.CH Vial: 7
Signal #2 : C:\MSDCHEM\1\DATA\1G3988\1G123062.D\ECD2B.CH
Acq On    : 16 May 2016  10:28 am                    Operator: thomasl
Sample    : ic3988-2                                 Inst    : GC1G
Misc      : op93854,g1g3988,930,,,10,1               Multiplr: 1.00
IntFile Signal #1: autoint1.e     IntFile Signal #2: autoint2.e
Quant Time: May 16 12:13 2016  Quant Results File: 1PST3988.RES

Method       : C:\MSDCHEM\1\METHODS\1PST3988.M (Chemstation Integrator)
Title        : PEST/PCB
Last Update  : Mon May 16 09:01:14 2016
Response via : Multiple Level Calibration
```





QEdit

(21) Methoxychlor (A)

6.70min 2.255PPB m

response 2673330

(21) Methoxychlor #2 (A)

8.60min 2.522PPB m

response 14224405

(+) = Expected Retention Time

1G123062.D 1PST3988.M Mon May 16 12:14:24 2016 RPT1

11.6.2.5 11

Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\1G3988\1G123063.D\ECD1A.CH Vial: 8
Signal #2 : C:\MSDCHEM\1\DATA\1G3988\1G123063.D\ECD2B.CH
Acq On : 16 May 2016 10:46 am Operator: thomasl
Sample : ic3988-5 Inst : GC1G
Misc : op93854,g1g3988,930,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: May 16 17:21 2016 Quant Results File: 1PST3988.RES

Quant Method : C:\MSDCHEM\1\METHODS\1PST3988.M (Chemstation Integrator)
Title : PEST/PCB
Last Update : Mon May 16 13:30:31 2016
Response via : Initial Calibration
DataAcq Meth : 1PST3988.M

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.50um Signal #2 Info : 30m x .32mm x .25um

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	Internal Standards						
1) I	1-bromo-2-nitrob	1.33	1.49	113.6E6	855.4E6	50.000	50.000
	System Monitoring Compounds						
2) SAB	Tetrachloro-m-xy	1.92	2.29	10136401	81388560	4.936	5.348
Spiked Amount	40.000	Range	30 - 150	Recovery	=	12.34%#	13.37%#
24) SA	Decachlorobiphen	9.23	10.68	14488084	57537937	5.189	5.382
Spiked Amount	40.000			Recovery	=	12.97%	13.46%
	Target Compounds						
3) A	alpha-BHC	2.41	2.94	13729734	119.5E6	4.674	5.244
4) MA	gamma-BHC	2.71	3.35	13145392	111.6E6	4.789	5.413
5) MA	Heptachlor	3.20	3.90	13674867	105.3E6	4.894	5.470
6) B	beta-BHC	2.78	3.43	6640000	54109928	5.055	5.723
7) B	delta-BHC	2.97	3.81	12394888	110.1E6	4.606	5.338
8) MB	Aldrin	3.53	4.34	12380831	93164632	4.862	5.289
9) B	Heptachlor Epoxi	4.24	5.14	12130184	84083910	4.834	5.336
10) B	gamma-Chlordane	4.40	5.42	12491341	84035576	4.836	5.221
11) B	alpha-Chlordane	4.56	5.64	12579719	84688404	4.911	5.313
12) A	Endosulfan I	4.75	5.73	12108270	78325452	4.913	5.328
13) B	4,4'-DDE	4.67	5.90	12623806	82683735	4.888	5.229
14) MA	Dieldrin	5.07	6.15	12336127	85228777	4.807	5.164
15) MA	Endrin	5.39	6.65	11285271	81139456	4.851	5.585
16) A	4,4'-DDD	5.51	6.83	9740947	71643432	4.802	5.503
17) B	Endosulfan II	5.71	6.99	12115481	78275160	4.970	5.264
18) MA	4,4'-DDT	5.92	7.36	10495672	66836532	4.750	5.231
19) B	Endrin Aldehyde	6.34	7.56	9494629	59981905	4.931	5.257
20) B	Endosulfan Sulfa	7.03	8.02	11187191	69329572	4.780	5.328
21) A	Methoxychlor	6.70	8.60	6739268	34874789	5.150	5.083
22)	Mirex	6.83	8.90	11682729	58478048	5.247	5.379
23) B	Endrin Ketone	7.46	8.97	12910199	77332804	4.875	5.302

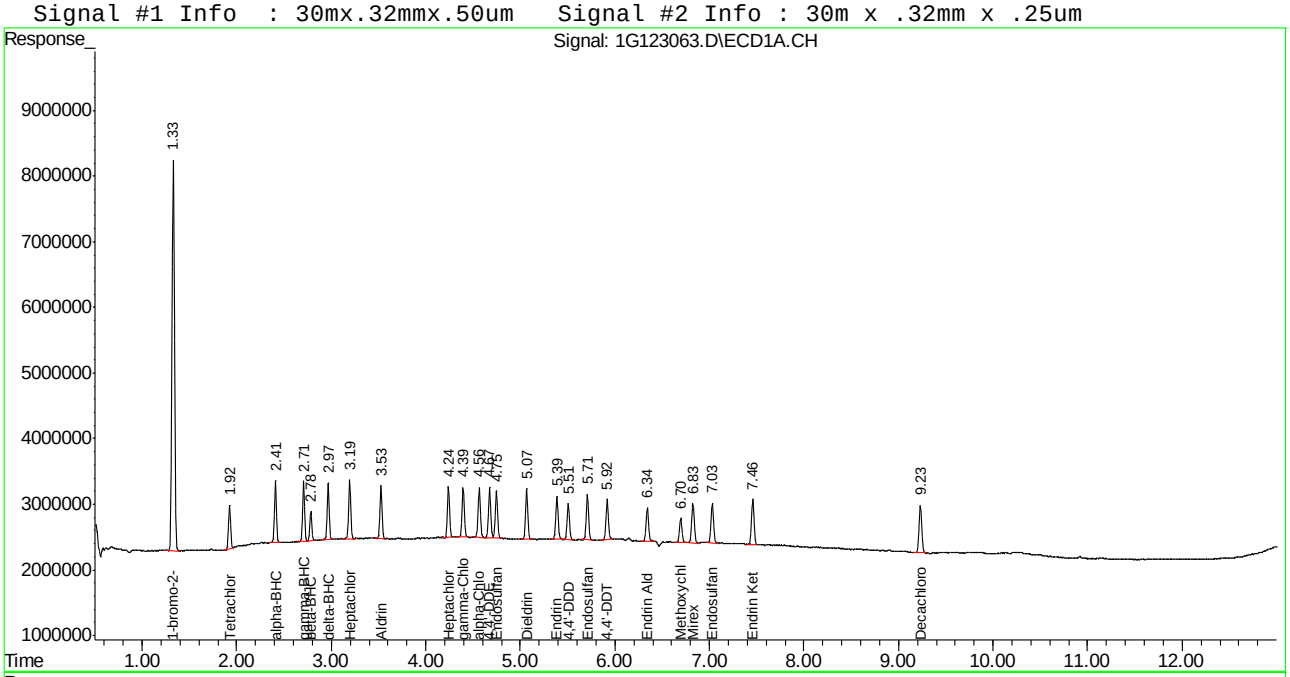
(f)=RT Delta > 1/2 Window (m)=manual int.
1G123063.D 1PST3988.M Mon May 16 17:21:10 2016 RPT1 Page 1

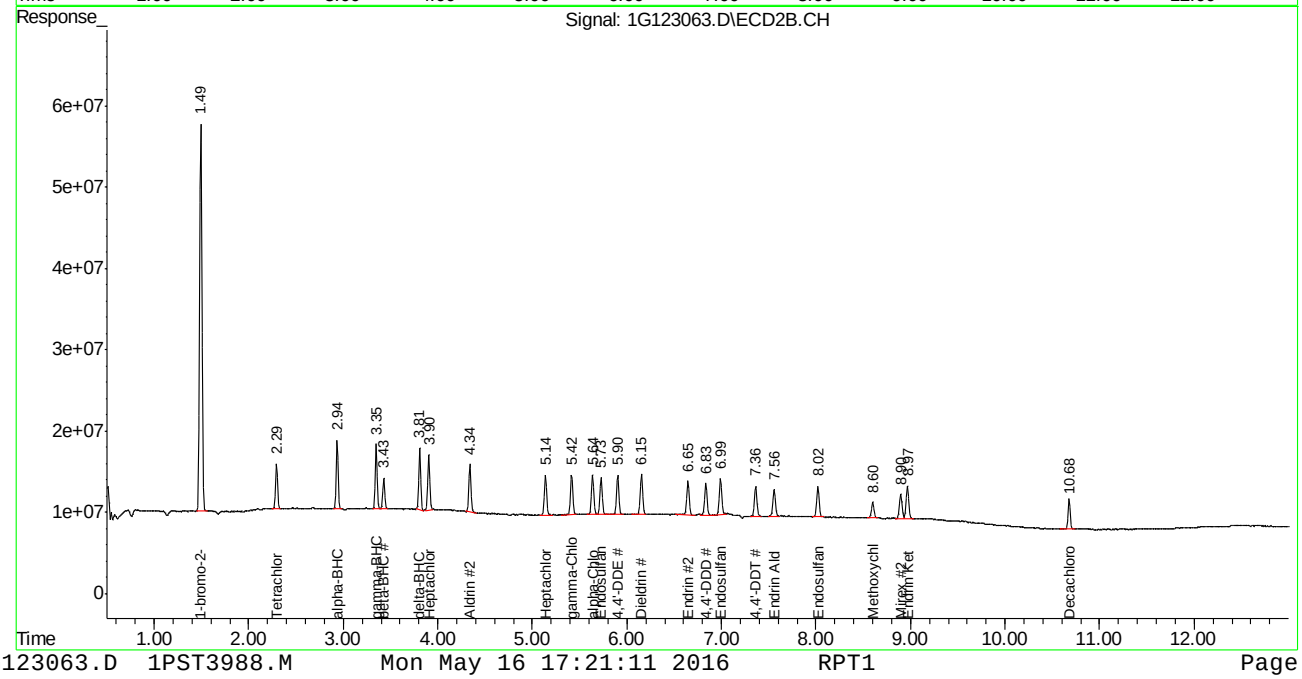
Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\1G3988\1G123063.D\ECD1A.CH Vial: 8
Signal #2 : C:\MSDCHEM\1\DATA\1G3988\1G123063.D\ECD2B.CH
Acq On : 16 May 2016 10:46 am Operator: thomasl
Sample : ic3988-5 Inst : GC1G
Misc : op93854,g1g3988,930,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: May 16 17:21 2016 Quant Results File: 1PST3988.RES

Quant Method : C:\MSDCHEM\1\METHODS\1PST3988.M (Chemstation Integrator)
Title : PEST/PCB
Last Update : Mon May 16 13:30:31 2016
Response via : Multiple Level Calibration
DataAcq Meth : 1PST3988.M

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.50um Signal #2 Info : 30m x .32mm x .25um





SGS ACCUTEST JC21347

Manual Integrations APPROVED (compounds with "m" flag)
Gwendolyn Burns 05/16/16 17:43

Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\1G3988\1G123064.D\ECD1A.CH Vial: 9
Signal #2 : C:\MSDCHEM\1\DATA\1G3988\1G123064.D\ECD2B.CH
Acq On : 16 May 2016 11:03 am Operator: thomasl
Sample : ic3988-10 Inst : GC1G
Misc : op93854,g1g3988,930,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: May 16 13:24 2016 Quant Results File: 1PST3988.RES

Quant Method : C:\MSDCHEM\1\METHODS\1PST3988.M (Chemstation Integrator)
Title : PEST/PCB
Last Update : Mon May 16 09:01:14 2016
Response via : Initial Calibration
DataAcq Meth : 1PST3988.M

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.50um Signal #2 Info : 30m x .32mm x .25um

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	Internal Standards						
1) I	1-bromo-2-nitrob	1.33	1.49	116.2E6	865.7E6	50.000	50.000
	System Monitoring Compounds						
2) SAB	Tetrachloro-m-xy	1.92	2.29	20750289	161.5E6	11.337	11.324
Spiked Amount	40.000	Range	30 - 150	Recovery	=	28.34%#	28.31%#
24) SA	Decachlorobiphen	9.23	10.68	28580121	110.5E6	11.061	11.042
Spiked Amount	40.000			Recovery	=	27.65%	27.61%
	Target Compounds						
3) A	alpha-BHC	2.41	2.94	27666553	236.8E6	9.785	11.172
4) MA	gamma-BHC	2.71	3.35	26439385	213.7E6	10.012	11.144
5) MA	Heptachlor	3.20	3.90	26685288	200.9E6	9.879	11.159
6) B	beta-BHC	2.78	3.43	12999848	99651131	10.141	11.571
7) B	delta-BHC	2.97	3.81	25401856	210.2E6	9.915	11.208
8) MB	Aldrin	3.53	4.34	24498041	179.8E6	9.569	10.600
9) B	Heptachlor Epoxi	4.24	5.14	24743436	159.8E6	9.911	10.536
10) B	gamma-Chlordane	4.40	5.41	24283346	160.9E6	9.712	10.656
11) B	alpha-Chlordane	4.57	5.64	24561033	160.1E6	9.992	10.773
12) A	Endosulfan I	4.75	5.73	23759924	152.6E6	9.734	10.882
13) B	4,4'-DDE	4.68	5.90	24597236	159.1E6	9.654	10.691
14) MA	Dieldrin	5.07	6.15	24330429	163.9E6	9.221	10.647
15) MA	Endrin	5.39	6.65	22119397	147.4E6	9.355	12.432
16) A	4,4'-DDD	5.51	6.83	19255220	131.2E6	9.288	10.124
17) B	Endosulfan II	5.71	6.99	23501982	148.7E6	9.600	9.892
18) MA	4,4'-DDT	5.92	7.36	21117760	127.9E6	9.367	11.056m
19) B	Endrin Aldehyde	6.34	7.56	18612425	115.5E6	10.178	11.037
20) B	Endosulfan Sulfa	7.03	8.02	22259824	132.5E6	11.425	11.723
21) A	Methoxychlor	6.70	8.60	13073987	68225543	11.107	12.114
22)	Mirex	6.82	8.89	22387131	112.7E6	10.976	11.356
23) B	Endrin Ketone	7.46	8.97	25533264	148.8E6	11.705	11.820

(f)=RT Delta > 1/2 Window (m)=manual int.

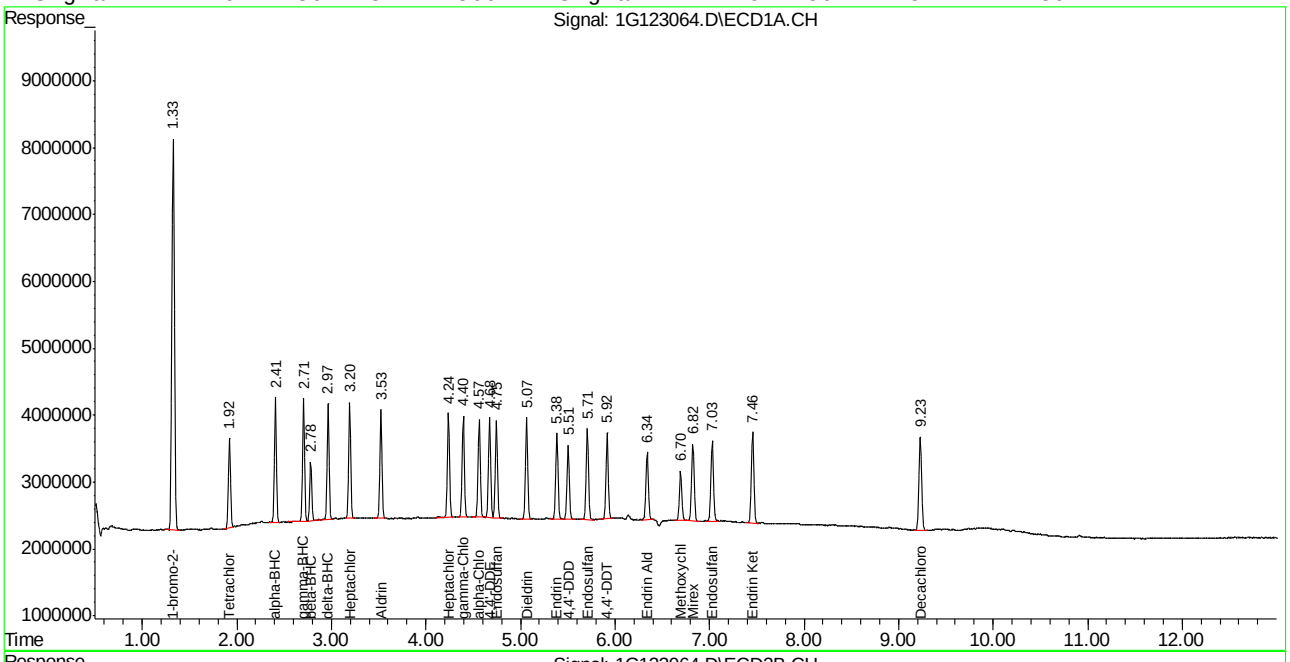
SGS ACCUTEST JC21347

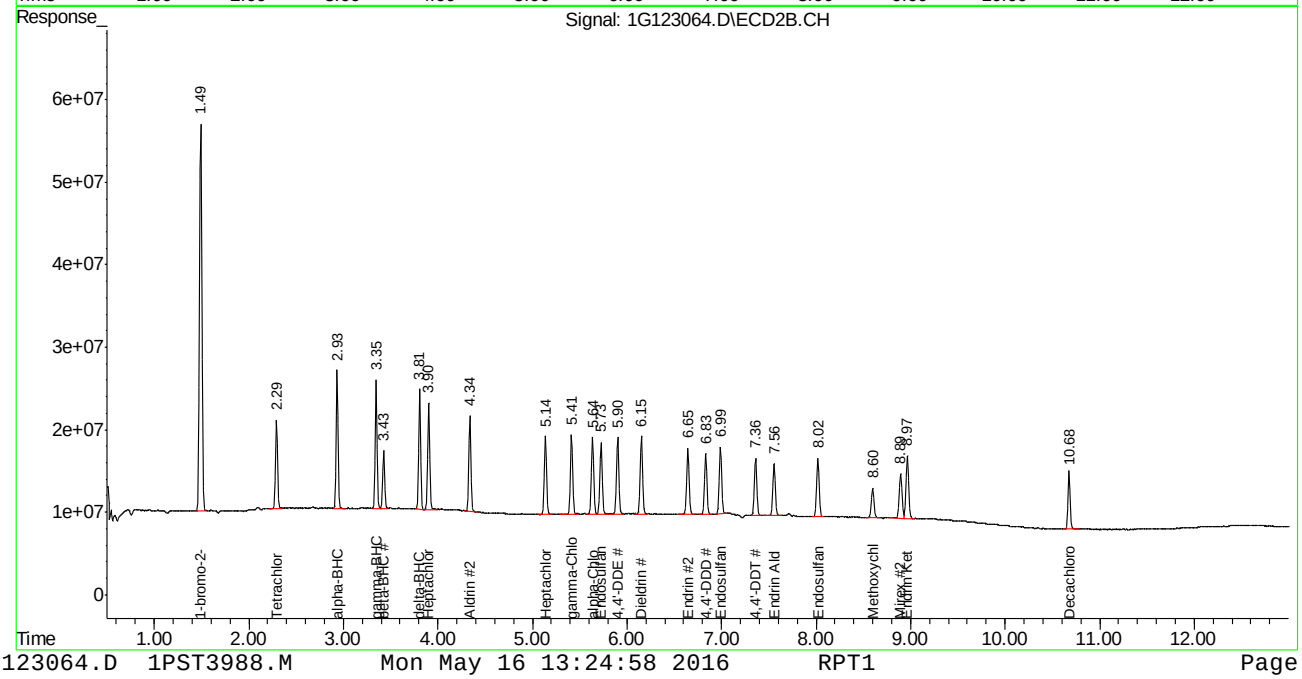
Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\1G3988\1G123064.D\ECD1A.CH Vial: 9
Signal #2 : C:\MSDCHEM\1\DATA\1G3988\1G123064.D\ECD2B.CH
Acq On : 16 May 2016 11:03 am Operator: thomasl
Sample : ic3988-10 Inst : GC1G
Misc : op93854,g1g3988,930,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: May 16 13:24 2016 Quant Results File: 1PST3988.RES

Quant Method : C:\MSDCHEM\1\METHODS\1PST3988.M (Chemstation Integrator)
Title : PEST/PCB
Last Update : Mon May 16 09:01:14 2016
Response via : Multiple Level Calibration
DataAcq Meth : 1PST3988.M

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.50um Signal #2 Info : 30m x .32mm x .25um





SGS ACCUTEST JC21347

Manual Integration Approval Summary

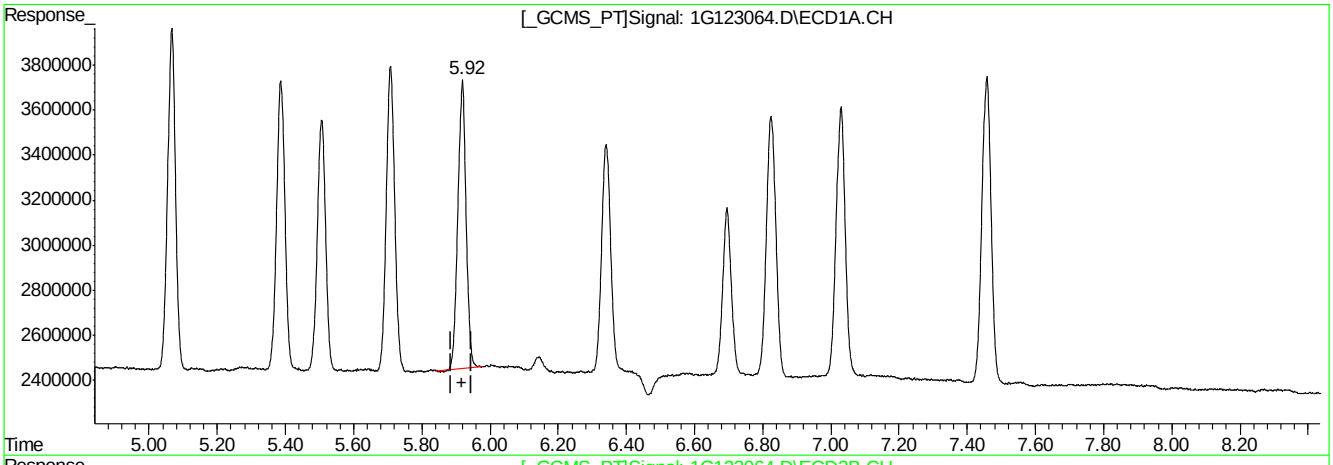
Sample Number:	G1G3988-IC3988	**Method:**	SW846 8081B
Lab FileID:	1G123064.D	**Analyst approved:**	05/16/16 15:18 Dhara Saparia
Injection Time:	05/16/16 11:03	**Supervisor approved:**	05/16/16 17:43 Gwendolyn Burns

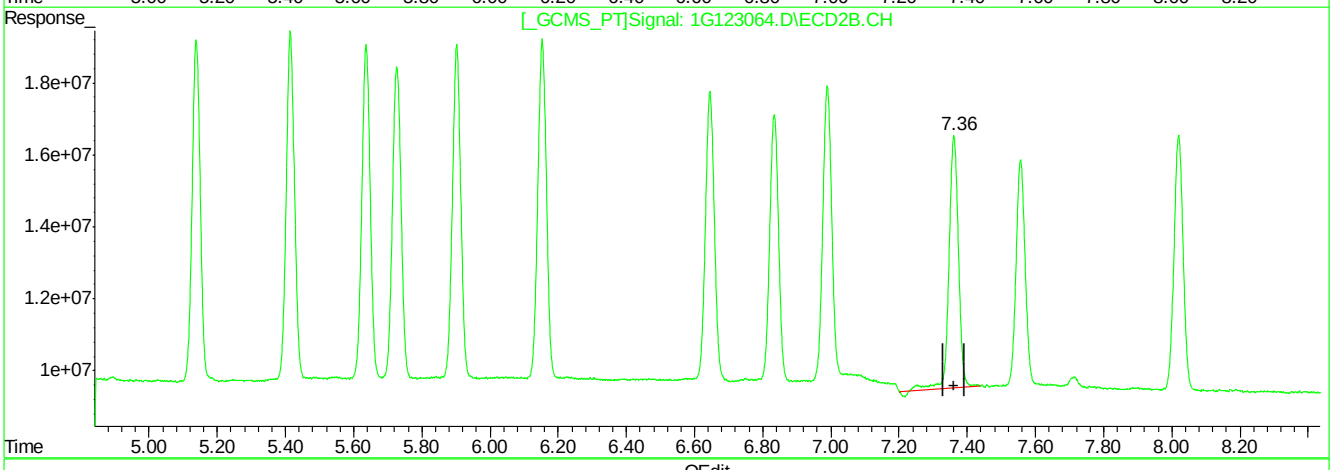
Parameter	CAS	Sig#	R.T. (min.)	Reason
4,4'-DDT	50-29-3	2	7.36	Poor instrument integration

Quantitation Report (Qedit)

Signal #1 : C:\MSDCHEM\1\DATA\1G3988\1G123064.D\ECD1A.CH Vial: 9
Signal #2 : C:\MSDCHEM\1\DATA\1G3988\1G123064.D\ECD2B.CH
Acq On : 16 May 2016 11:03 am Operator: thomasl
Sample : ic3988-10 Inst : GC1G
Misc : op93854,g1g3988,930,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: May 16 12:10 2016 Quant Results File: 1PST3988.RES

Method : C:\MSDCHEM\1\METHODS\1PST3988.M (Chemstation Integrator)
Title : PEST/PCB
Last Update : Mon May 16 09:01:14 2016
Response via : Multiple Level Calibration





QEdit

(18) 4,4'-DDT (MA)

5.92min 9.367PPB

response 21117760

(18) 4,4'-DDT #2 (MA)

7.36min 11.861PPB

response 137166036

(+) = Expected Retention Time

1G123064.D 1PST3988.M Mon May 16 12:10:34 2016 RPT1

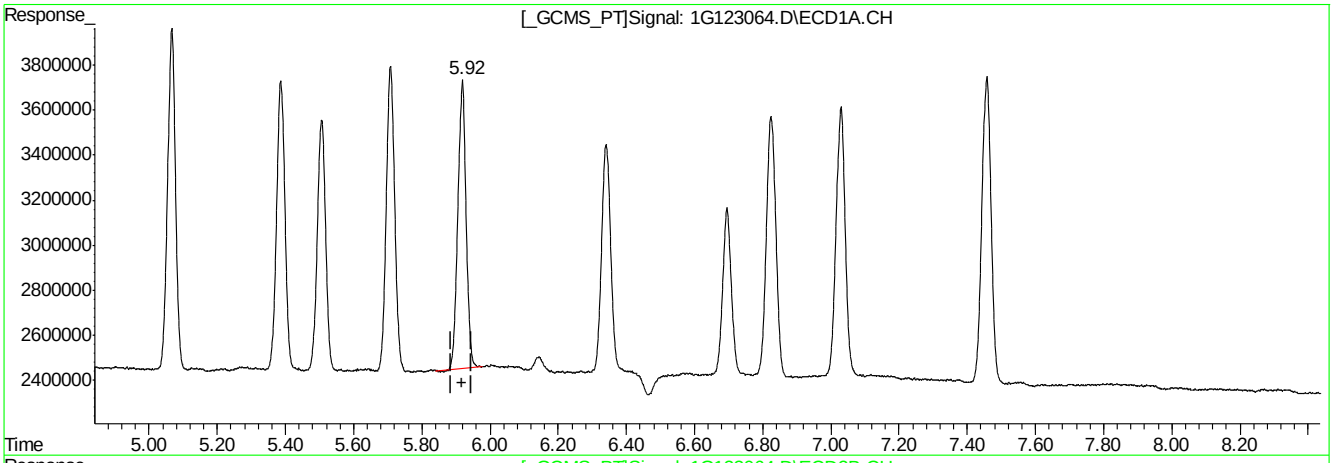
11.6.4.2

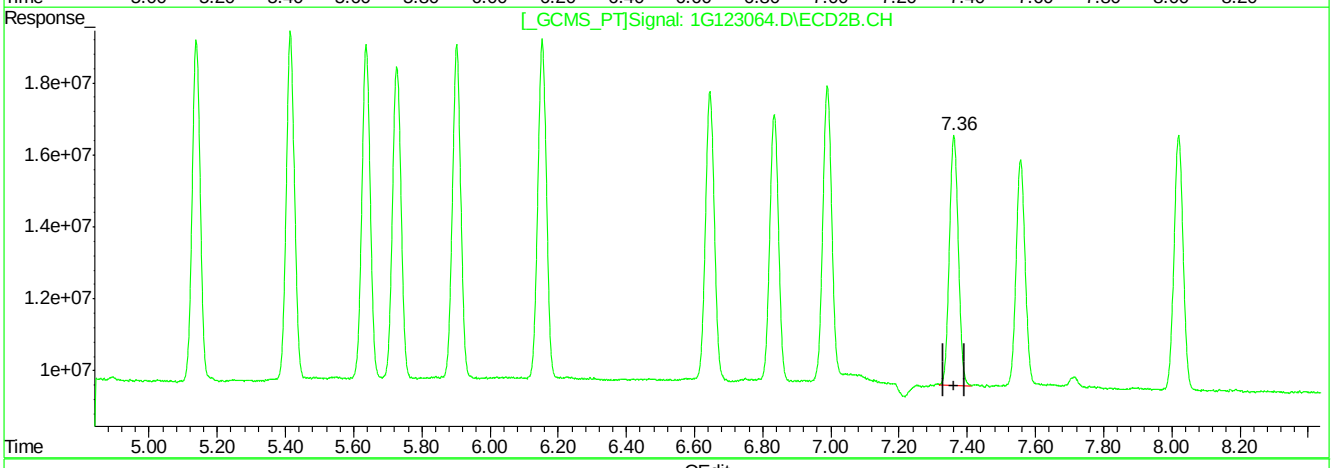
11

Quantitation Report (Qedit)

```
Signal #1 : C:\MSDCHEM\1\DATA\1G3988\1G123064.D\ECD1A.CH Vial: 9
Signal #2 : C:\MSDCHEM\1\DATA\1G3988\1G123064.D\ECD2B.CH
Acq On    : 16 May 2016  11:03 am                    Operator: thomasl
Sample    : ic3988-10                                Inst    : GC1G
Misc      : op93854,g1g3988,930,,,10,1               Multiplr: 1.00
IntFile Signal #1: autoint1.e     IntFile Signal #2: autoint2.e
Quant Time: May 16 12:10 2016  Quant Results File: 1PST3988.RES


Method       : C:\MSDCHEM\1\METHODS\1PST3988.M (Chemstation Integrator)
Title        : PEST/PCB
Last Update  : Mon May 16 09:01:14 2016
Response via : Multiple Level Calibration
```





QEdit

(18) 4,4'-DDT (MA)

5.92min 9.367PPB

response 21117760

(18) 4,4'-DDT #2 (MA)

7.36min 11.056PPB m

response 127854903

(+) = Expected Retention Time

1G123064.D 1PST3988.M Mon May 16 12:10:48 2016 RPT1

Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\1G3988\1G123065.D\ECD1A.CH Vial: 10
Signal #2 : C:\MSDCHEM\1\DATA\1G3988\1G123065.D\ECD2B.CH
Acq On : 16 May 2016 11:21 am Operator: thomasl
Sample : icc3988-25 Inst : GC1G
Misc : op93854,g1g3988,930,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: May 16 13:25 2016 Quant Results File: 1PST3988.RES

Quant Method : C:\MSDCHEM\1\METHODS\1PST3988.M (Chemstation Integrator)
Title : PEST/PCB
Last Update : Mon May 16 09:01:14 2016
Response via : Initial Calibration
DataAcq Meth : 1PST3988.M

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.50um Signal #2 Info : 30m x .32mm x .25um

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	Internal Standards						
1) I	1-bromo-2-nitrob	1.33	1.50	120.1E6	887.9E6	50.000	50.000
	System Monitoring Compounds						
2) SAB	Tetrachloro-m-xy	1.93	2.30	56001112	401.1E6	29.592	27.416
Spiked Amount	40.000	Range	30 - 150	Recovery	=	73.98%	68.54%
24) SA	Decachlorobiphen	9.23	10.68	72131465	269.7E6	27.000	26.273
Spiked Amount	40.000			Recovery	=	67.50%	65.68%
	Target Compounds						
3) A	alpha-BHC	2.41	2.94	77477232	590.0E6	26.502	27.144
4) MA	gamma-BHC	2.71	3.35	73074919	538.3E6	26.763	27.368
5) MA	Heptachlor	3.20	3.90	72196368	488.8E6	25.851	26.479
6) B	beta-BHC	2.78	3.43	33996166	246.9E6	25.651	27.951
7) B	delta-BHC	2.97	3.81	70029708	534.0E6	26.437	27.758
8) MB	Aldrin	3.53	4.34	67086616	462.1E6	25.345	26.565
9) B	Heptachlor Epoxi	4.24	5.14	65839458	407.4E6	25.506	26.192
10) B	gamma-Chlordane	4.40	5.42	65644651	417.8E6	25.392	26.971
11) B	alpha-Chlordane	4.57	5.64	65894613	408.3E6	25.928	26.785
12) A	Endosulfan I	4.75	5.73	63722290	393.7E6	25.250	27.380
13) B	4,4'-DDE	4.68	5.90	66665136	410.5E6	25.307	26.890
14) MA	Dieldrin	5.07	6.15	66773431	427.0E6	24.476	27.049
15) MA	Endrin	5.39	6.65	59199626	367.8E6	24.216	30.253
16) A	4,4'-DDD	5.51	6.83	52918646	342.4E6	24.690	25.764
17) B	Endosulfan II	5.71	6.99	63186885	378.6E6	24.965	24.557
18) MA	4,4'-DDT	5.92	7.36	57322192	339.4E6	24.591	28.615
19) B	Endrin Aldehyde	6.34	7.56	48971969	293.6E6	25.902	27.348
20) B	Endosulfan Sulfa	7.03	8.02	59336726	338.5E6	29.456	29.200
21) A	Methoxychlor	6.70	8.60	34211597	170.1E6	28.111	29.441
22)	Mirex	6.82	8.90	57582116	271.3E6	27.304	26.659
23) B	Endrin Ketone	7.46	8.97	69042755	375.5E6	30.612	29.080

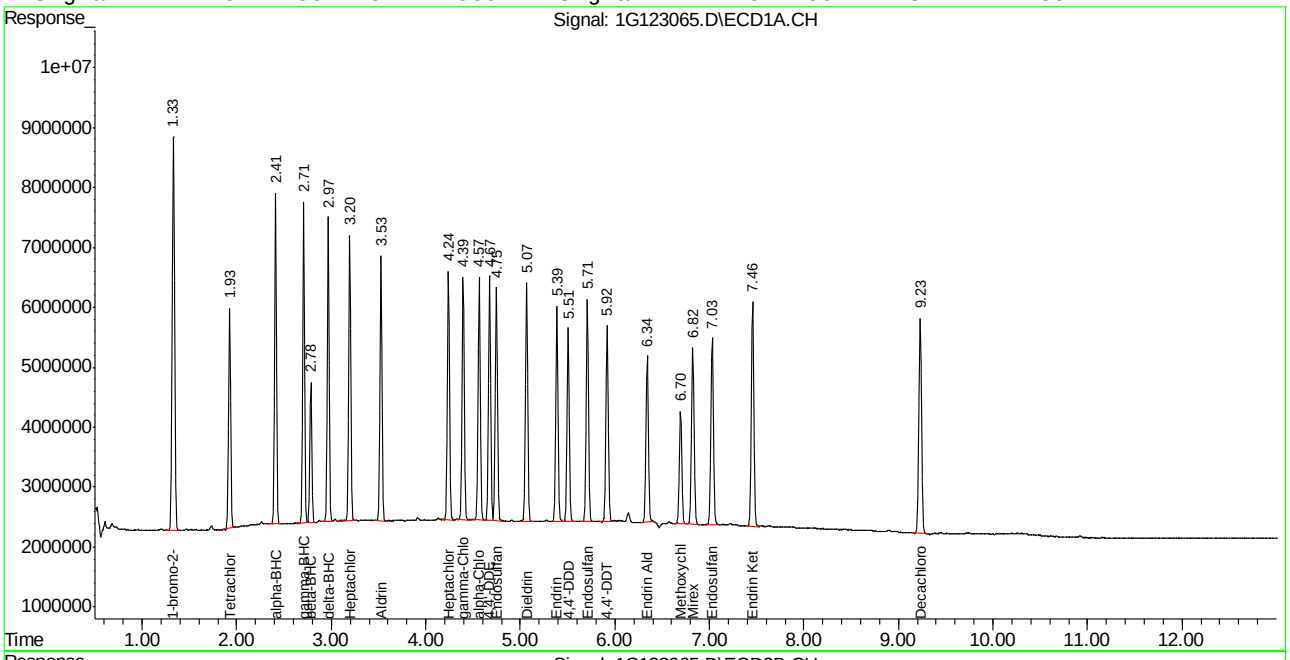
(f)=RT Delta > 1/2 Window (m)=manual int.
1G123065.D 1PST3988.M Mon May 16 13:25:11 2016 RPT1 Page 1

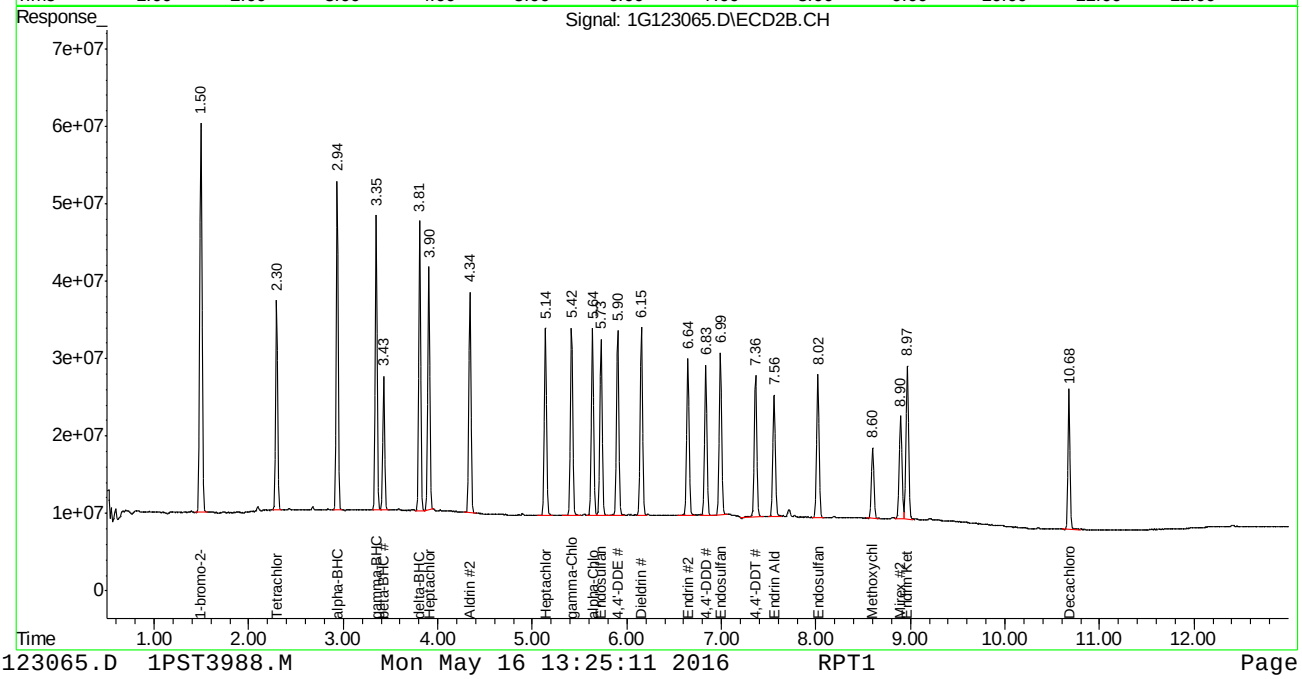
Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\1G3988\1G123065.D\ECD1A.CH Vial: 10
Signal #2 : C:\MSDCHEM\1\DATA\1G3988\1G123065.D\ECD2B.CH
Acq On : 16 May 2016 11:21 am Operator: thomasl
Sample : icc3988-25 Inst : GC1G
Misc : op93854,g1g3988,930,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: May 16 13:25 2016 Quant Results File: 1PST3988.RES

Quant Method : C:\MSDCHEM\1\METHODS\1PST3988.M (Chemstation Integrator)
Title : PEST/PCB
Last Update : Mon May 16 09:01:14 2016
Response via : Multiple Level Calibration
DataAcq Meth : 1PST3988.M

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.50um Signal #2 Info : 30m x .32mm x .25um





SGS ACCUTEST JC21347

Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\1G3988\1G123066.D\ECD1A.CH Vial: 11
Signal #2 : C:\MSDCHEM\1\DATA\1G3988\1G123066.D\ECD2B.CH
Acq On : 16 May 2016 11:38 am Operator: thomasl
Sample : ic3988-50 Inst : GC1G
Misc : op93854,g1g3988,930,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: May 16 13:25 2016 Quant Results File: 1PST3988.RES

Quant Method : C:\MSDCHEM\1\METHODS\1PST3988.M (Chemstation Integrator)
Title : PEST/PCB
Last Update : Mon May 16 09:01:14 2016
Response via : Initial Calibration
DataAcq Meth : 1PST3988.M

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.50um Signal #2 Info : 30m x .32mm x .25um

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	Internal Standards						
1) I	1-bromo-2-nitrob	1.33	1.49	120.8E6	899.4E6	50.000	50.000
	System Monitoring Compounds						
2) SAB	Tetrachloro-m-xy	1.93	2.30	115.7E6	785.5E6	60.809	53.005
Spiked Amount	40.000	Range	30 - 150	Recovery	=	152.02%#	132.51%
24) SA	Decachlorobiphen	9.23	10.68	142.6E6	522.4E6	53.051	50.240
Spiked Amount	40.000			Recovery	=	132.63%	125.60%
	Target Compounds						
3) A	alpha-BHC	2.41	2.94	169.9E6	1192.7E6	57.785	54.166
4) MA	gamma-BHC	2.71	3.35	158.0E6	1075.0E6	57.533	53.959
5) MA	Heptachlor	3.20	3.90	152.7E6	983.9E6	54.351	52.609
6) B	beta-BHC	2.78	3.43	70021076	472.4E6	52.527	52.797
7) B	delta-BHC	2.97	3.81	154.5E6	1079.6E6	57.976	55.398
8) MB	Aldrin	3.53	4.34	143.3E6	926.1E6	53.808	52.561
9) B	Heptachlor Epoxi	4.24	5.14	137.7E6	807.0E6	53.041	51.220
10) B	gamma-Chlordane	4.40	5.42	138.4E6	824.0E6	53.236	52.515
11) B	alpha-Chlordane	4.57	5.64	137.3E6	802.8E6	53.722	51.988
12) A	Endosulfan I	4.75	5.73	132.7E6	768.1E6	52.275	52.728
13) B	4,4'-DDE	4.68	5.90	139.7E6	809.7E6	52.740	52.357
14) MA	Dieldrin	5.07	6.15	141.6E6	845.4E6	51.608	52.867
15) MA	Endrin	5.39	6.65	124.2E6	728.6E6	50.505	59.165
16) A	4,4'-DDD	5.51	6.84	112.4E6	673.3E6	52.150	50.009
17) B	Endosulfan II	5.71	6.99	131.5E6	738.9E6	51.652	47.319
18) MA	4,4'-DDT	5.92	7.36	122.1E6	670.4E6	52.057	55.798
19) B	Endrin Aldehyde	6.34	7.56	102.4E6	578.2E6	53.862	53.179
20) B	Endosulfan Sulfa	7.03	8.02	121.8E6	664.2E6	60.105	56.569
21) A	Methoxychlor	6.70	8.60	69094100	335.2E6	56.445	57.285
22)	Mirex	6.83	8.90	113.1E6	526.9E6	53.322	51.106
23) B	Endrin Ketone	7.46	8.97	142.8E6	734.5E6	62.947	56.149

(f)=RT Delta > 1/2 Window (m)=manual int.

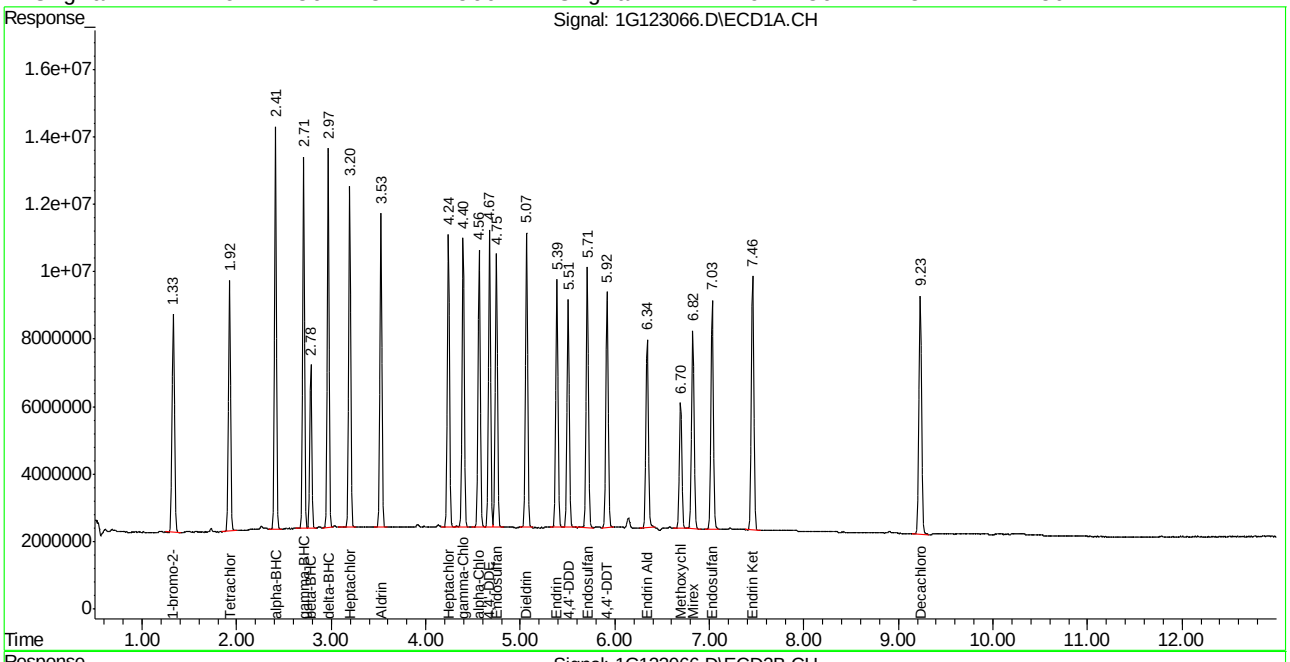
SGS ACCUTEST JC21347

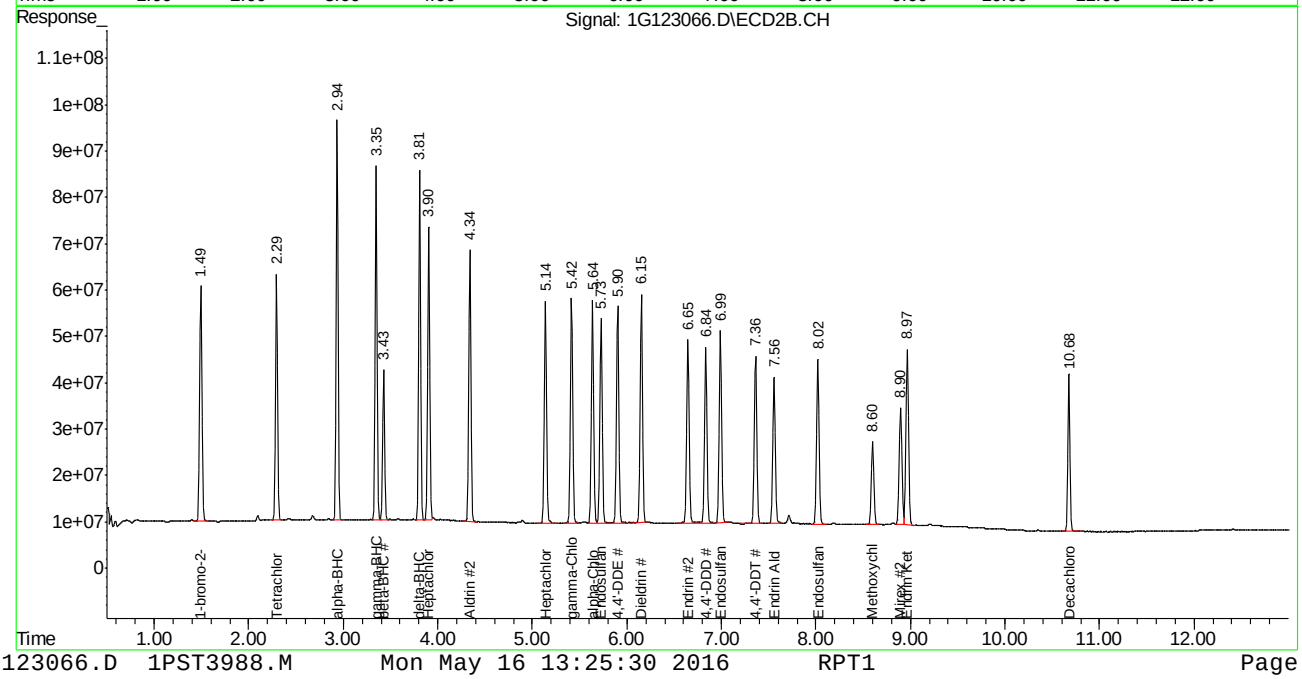
Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\1G3988\1G123066.D\ECD1A.CH Vial: 11
Signal #2 : C:\MSDCHEM\1\DATA\1G3988\1G123066.D\ECD2B.CH
Acq On : 16 May 2016 11:38 am Operator: thomasl
Sample : ic3988-50 Inst : GC1G
Misc : op93854,g1g3988,930,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: May 16 13:25 2016 Quant Results File: 1PST3988.RES

Quant Method : C:\MSDCHEM\1\METHODS\1PST3988.M (Chemstation Integrator)
Title : PEST/PCB
Last Update : Mon May 16 09:01:14 2016
Response via : Multiple Level Calibration
DataAcq Meth : 1PST3988.M

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.50um Signal #2 Info : 30m x .32mm x .25um





SGS ACCUTEST JC21347

Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\1G3988\1G123067.D\ECD1A.CH Vial: 12
Signal #2 : C:\MSDCHEM\1\DATA\1G3988\1G123067.D\ECD2B.CH
Acq On : 16 May 2016 11:56 am Operator: thomasl
Sample : ic3988-75 Inst : GC1G
Misc : op93854,g1g3988,930,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: May 16 13:25 2016 Quant Results File: 1PST3988.RES

Quant Method : C:\MSDCHEM\1\METHODS\1PST3988.M (Chemstation Integrator)
Title : PEST/PCB
Last Update : Mon May 16 09:01:14 2016
Response via : Initial Calibration
DataAcq Meth : 1PST3988.M

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.50um Signal #2 Info : 30m x .32mm x .25um

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	Internal Standards						
1) I	1-bromo-2-nitrob	1.33	1.49	119.1E6	896.1E6	50.000	50.000
	System Monitoring Compounds						
2) SAB	Tetrachloro-m-xy	1.92	2.29	171.1E6	1124.0E6	91.121	76.126
Spiked Amount	40.000	Range	30 - 150	Recovery	=	227.80%#	190.32%#
24) SA	Decachlorobiphen	9.23	10.68	209.2E6	753.7E6	78.927	72.756
Spiked Amount	40.000			Recovery	=	197.32%	181.89%
	Target Compounds						
3) A	alpha-BHC	2.41	2.94	260.0E6	1760.3E6	89.653	80.238
4) MA	gamma-BHC	2.71	3.35	239.5E6	1574.7E6	88.422	79.328
5) MA	Heptachlor	3.20	3.90	229.0E6	1428.6E6	82.654	76.671
6) B	beta-BHC	2.78	3.43	103.0E6	676.1E6	78.339	75.834
7) B	delta-BHC	2.97	3.81	236.1E6	1584.9E6	89.839	81.626
8) MB	Aldrin	3.53	4.34	216.8E6	1353.7E6	82.580	77.109
9) B	Heptachlor Epoxi	4.24	5.14	204.0E6	1169.6E6	79.673	74.503
10) B	gamma-Chlordane	4.40	5.42	205.9E6	1198.4E6	80.294	76.654
11) B	alpha-Chlordane	4.56	5.64	204.3E6	1161.7E6	81.016	75.507
12) A	Endosulfan I	4.75	5.73	197.0E6	1106.9E6	78.683	76.266
13) B	4,4'-DDE	4.67	5.90	208.2E6	1176.4E6	79.665	76.348
14) MA	Dieldrin	5.07	6.15	213.2E6	1227.7E6	78.774	77.055
15) MA	Endrin	5.39	6.65	185.1E6	1028.9E6	76.327	83.860
16) A	4,4'-DDD	5.51	6.83	169.4E6	972.5E6	79.648	72.496
17) B	Endosulfan II	5.71	6.99	194.8E6	1067.4E6	77.591	68.606
18) MA	4,4'-DDT	5.92	7.36	183.5E6	982.5E6	79.339	82.072
19) B	Endrin Aldehyde	6.34	7.56	158.6E6	851.7E6	84.543	78.618
20) B	Endosulfan Sulfa	7.03	8.02	180.5E6	960.8E6	90.343	82.129
21) A	Methoxychlor	6.70	8.60	101.3E6	491.6E6	83.867	84.322
22)	Mirex	6.83	8.90	165.0E6	759.7E6	78.872	73.959
23) B	Endrin Ketone	7.46	8.97	213.9E6	1065.0E6	95.611	81.705

(f)=RT Delta > 1/2 Window (m)=manual int.

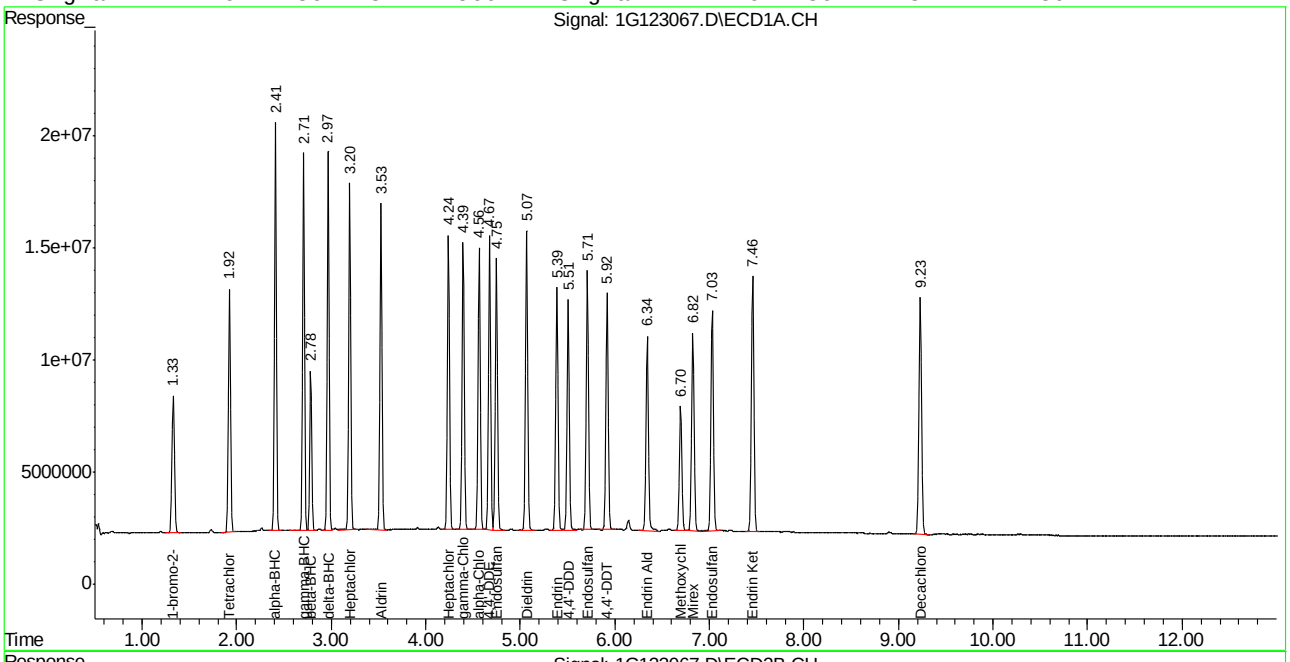
SGS ACCUTEST JC21347

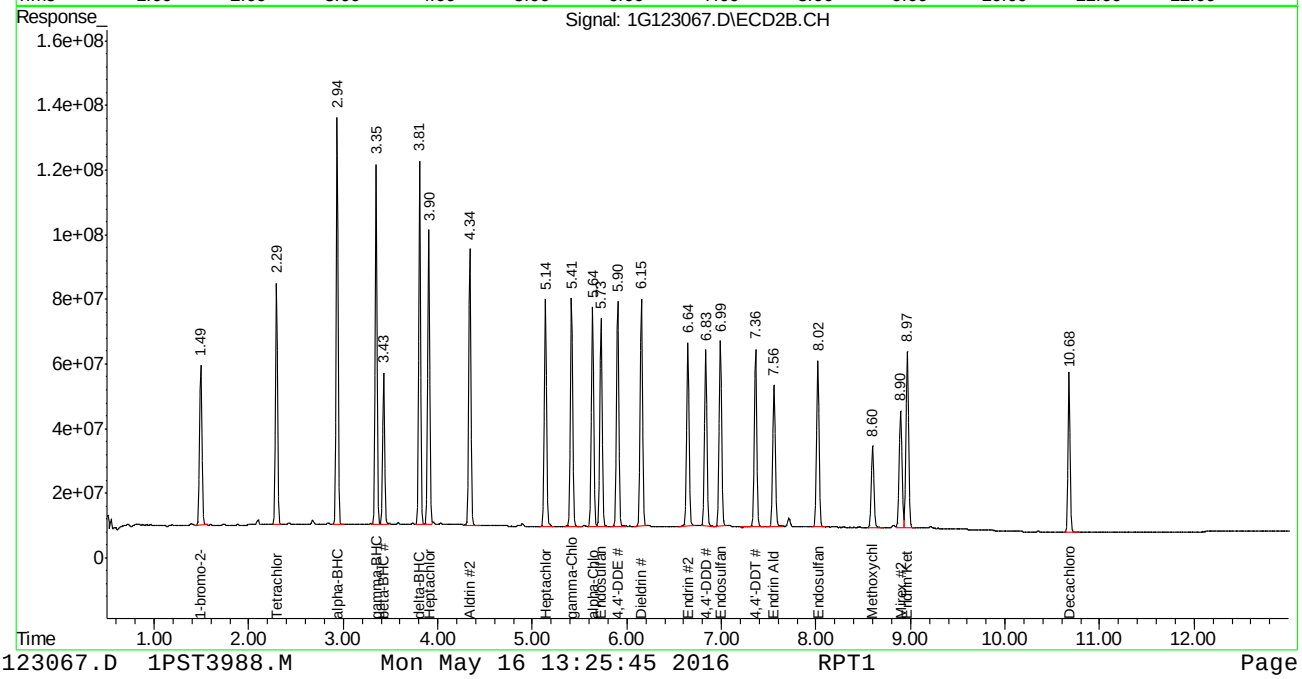
Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\1G3988\1G123067.D\ECD1A.CH Vial: 12
Signal #2 : C:\MSDCHEM\1\DATA\1G3988\1G123067.D\ECD2B.CH
Acq On : 16 May 2016 11:56 am Operator: thomasl
Sample : ic3988-75 Inst : GC1G
Misc : op93854,g1g3988,930,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: May 16 13:25 2016 Quant Results File: 1PST3988.RES

Quant Method : C:\MSDCHEM\1\METHODS\1PST3988.M (Chemstation Integrator)
Title : PEST/PCB
Last Update : Mon May 16 09:01:14 2016
Response via : Multiple Level Calibration
DataAcq Meth : 1PST3988.M

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.50um Signal #2 Info : 30m x .32mm x .25um





SGS ACCUTEST JC21347

Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\1G3988\1G123068.D\ECD1A.CH Vial: 13
Signal #2 : C:\MSDCHEM\1\DATA\1G3988\1G123068.D\ECD2B.CH
Acq On : 16 May 2016 12:13 pm Operator: thomasl
Sample : ic3988-100 Inst : GC1G
Misc : op93854,g1g3988,930,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: May 16 13:25 2016 Quant Results File: 1PST3988.RES

Quant Method : C:\MSDCHEM\1\METHODS\1PST3988.M (Chemstation Integrator)
Title : PEST/PCB
Last Update : Mon May 16 09:01:14 2016
Response via : Initial Calibration
DataAcq Meth : 1PST3988.M

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.50um Signal #2 Info : 30m x .32mm x .25um

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	Internal Standards						
1) I	1-bromo-2-nitrob	1.33	1.50	120.7E6	915.9E6	50.000	50.000
	System Monitoring Compounds						
2) SAB	Tetrachloro-m-xy	1.93	2.30	235.1E6	1510.5E6	123.638	100.097
Spiked Amount	40.000	Range	30 - 150	Recovery	=	309.10%#	250.24%#
24) SA	Decachlorobiphen	9.23	10.68	278.0E6	995.2E6	103.549	94.001
Spiked Amount	40.000			Recovery	=	258.87%	235.00%
	Target Compounds						
3) A	alpha-BHC	2.41	2.94	367.0E6	2399.7E6	124.938	107.027
4) MA	gamma-BHC	2.71	3.35	337.6E6	2141.8E6	123.055	105.571
5) MA	Heptachlor	3.20	3.91	320.1E6	1943.4E6	114.072	102.051
6) B	beta-BHC	2.78	3.43	141.7E6	903.6E6	106.372	99.171
7) B	delta-BHC	2.97	3.81	335.1E6	2163.1E6	125.901	109.003
8) MB	Aldrin	3.53	4.34	304.8E6	1851.8E6	114.591	103.210
9) B	Heptachlor Epoxi	4.24	5.14	285.2E6	1595.1E6	109.969	99.415
10) B	gamma-Chlordane	4.40	5.42	290.7E6	1644.1E6	111.892	102.900
11) B	alpha-Chlordane	4.56	5.64	285.7E6	1590.4E6	111.868	101.145
12) A	Endosulfan I	4.75	5.73	274.8E6	1505.9E6	108.375	101.521
13) B	4,4'-DDE	4.68	5.90	292.2E6	1618.8E6	110.382	102.793
14) MA	Dieldrin	5.07	6.16	299.3E6	1678.2E6	109.180	103.056
15) MA	Endrin	5.39	6.65	258.1E6	1420.5E6	105.072	113.280
16) A	4,4'-DDD	5.51	6.83	238.3E6	1342.2E6	110.627	97.896
17) B	Endosulfan II	5.71	6.99	270.3E6	1469.5E6	106.279	92.417
18) MA	4,4'-DDT	5.92	7.36	257.7E6	1338.6E6	110.029	109.412
19) B	Endrin Aldehyde	6.34	7.56	216.5E6	1144.8E6	113.944	103.394
20) B	Endosulfan Sulfa	7.03	8.02	247.8E6	1299.2E6	122.436	108.665
21) A	Methoxychlor	6.70	8.60	137.7E6	644.4E6	112.618	108.154
22)	Mirex	6.83	8.90	222.5E6	1012.6E6	104.993	96.451
23) B	Endrin Ketone	7.46	8.97	293.1E6	1431.8E6	129.340	107.484

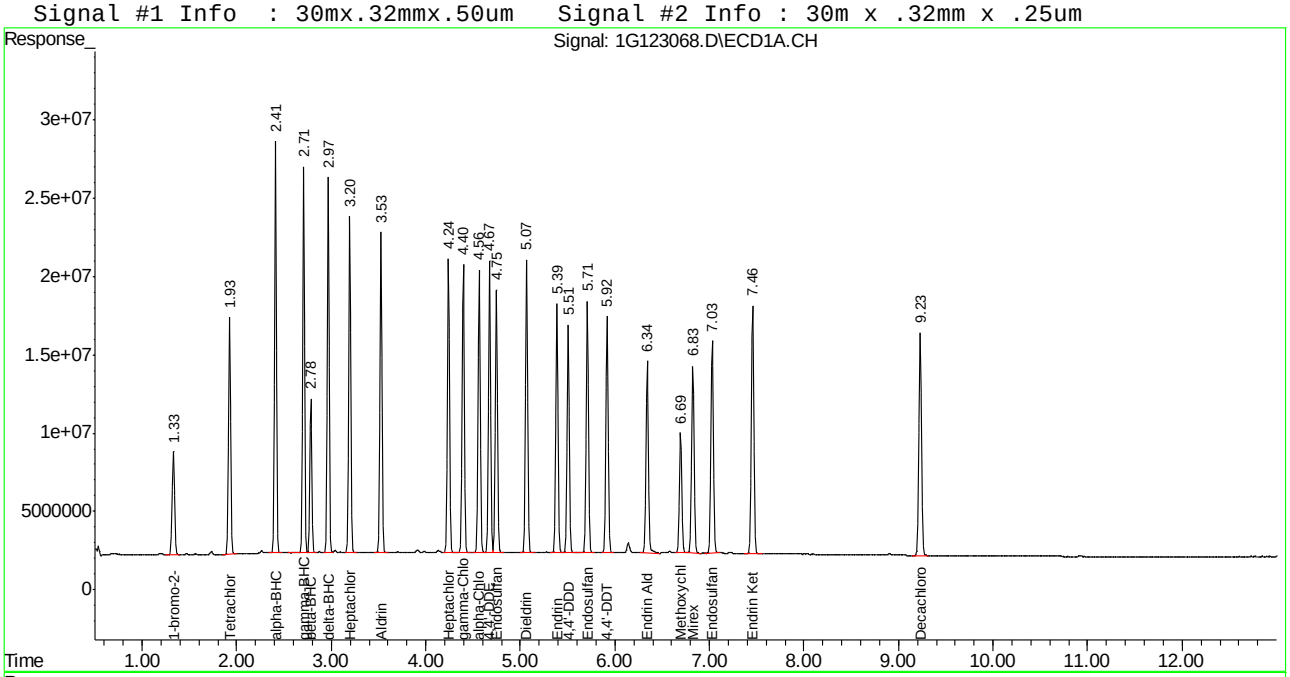
(f)=RT Delta > 1/2 Window (m)=manual int.
1G123068.D 1PST3988.M Mon May 16 13:26:01 2016 RPT1

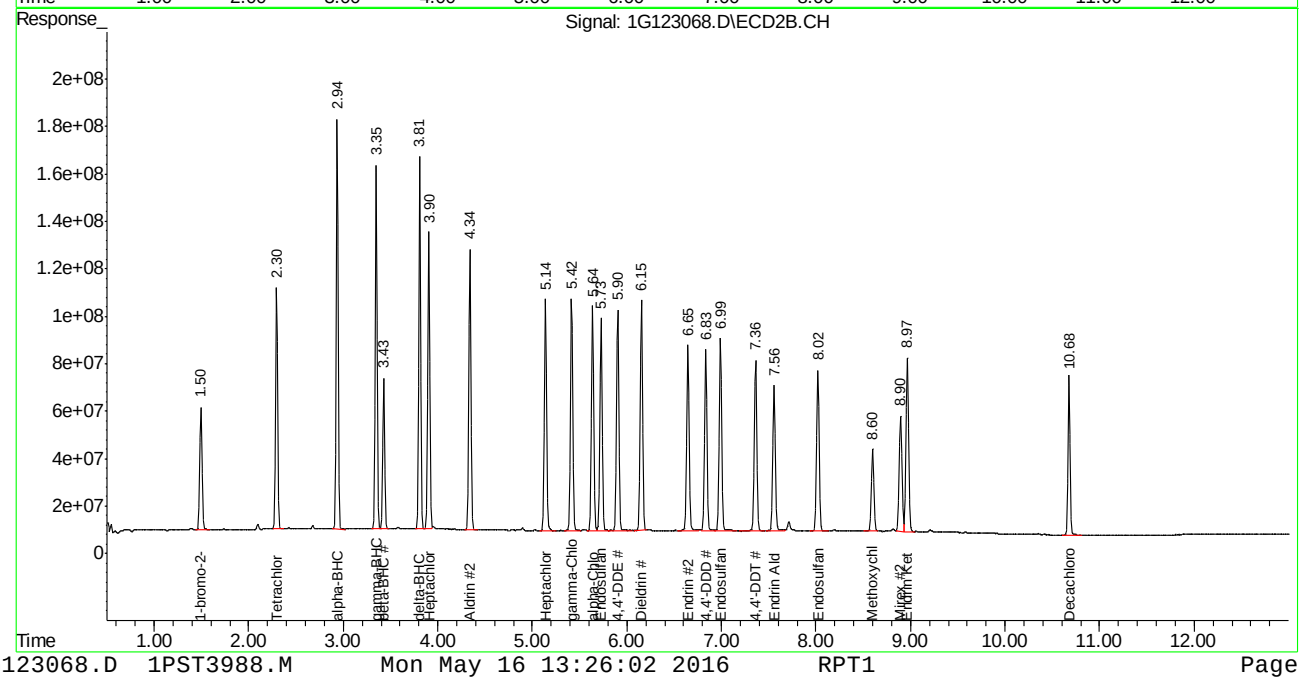
Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\1G3988\1G123068.D\ECD1A.CH Vial: 13
Signal #2 : C:\MSDCHEM\1\DATA\1G3988\1G123068.D\ECD2B.CH
Acq On : 16 May 2016 12:13 pm Operator: thomasl
Sample : ic3988-100 Inst : GC1G
Misc : op93854,g1g3988,930,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: May 16 13:25 2016 Quant Results File: 1PST3988.RES

Quant Method : C:\MSDCHEM\1\METHODS\1PST3988.M (Chemstation Integrator)
Title : PEST/PCB
Last Update : Mon May 16 09:01:14 2016
Response via : Multiple Level Calibration
DataAcq Meth : 1PST3988.M

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.50um Signal #2 Info : 30m x .32mm x .25um





SGS ACCUTEST JC21347

Manual Integrations
APPROVED
(compounds with "m" flag)
Gwendolyn Burns
05/16/16 17:43

Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\1G3988\1G123069.D\ECD1A.CH Vial: 14
Signal #2 : C:\MSDCHEM\1\DATA\1G3988\1G123069.D\ECD2B.CH
Acq On : 16 May 2016 12:31 pm Operator: thomasl
Sample : ic3988-500 Inst : GC1G
Misc : op93854,g1g3988,930,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: May 16 13:26 2016 Quant Results File: 1PST3988.RES

Quant Method : C:\MSDCHEM\1\METHODS\1PST3988.M (Chemstation Integrator)
Title : PEST/PCB
Last Update : Mon May 16 09:01:14 2016
Response via : Initial Calibration
DataAcq Meth : 1PST3988.M

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.50um Signal #2 Info : 30m x .32mm x .25um

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	Internal Standards						
31) I	1-bromo-2-nitrob	1.33	1.49	116.8E6	869.4E6	50.000	50.000
	System Monitoring Compounds						
	Target Compounds						
32)	Chlordane {A}	3.11	3.71	42766969	319.2E6	567.867	591.249
33)	Chlordane {B}	3.67	4.53	55545856	323.4E6	556.551	520.110
34)	Chlordane {C}	4.40	5.42	189.5E6	1058.3E6	547.997	549.001
35)	Chlordane {D}	4.56	5.64	296.0E6	1751.4E6	550.296	554.452m
36)	Chlordane {E}	5.61	7.07	44250029	315.1E6	588.663	506.346

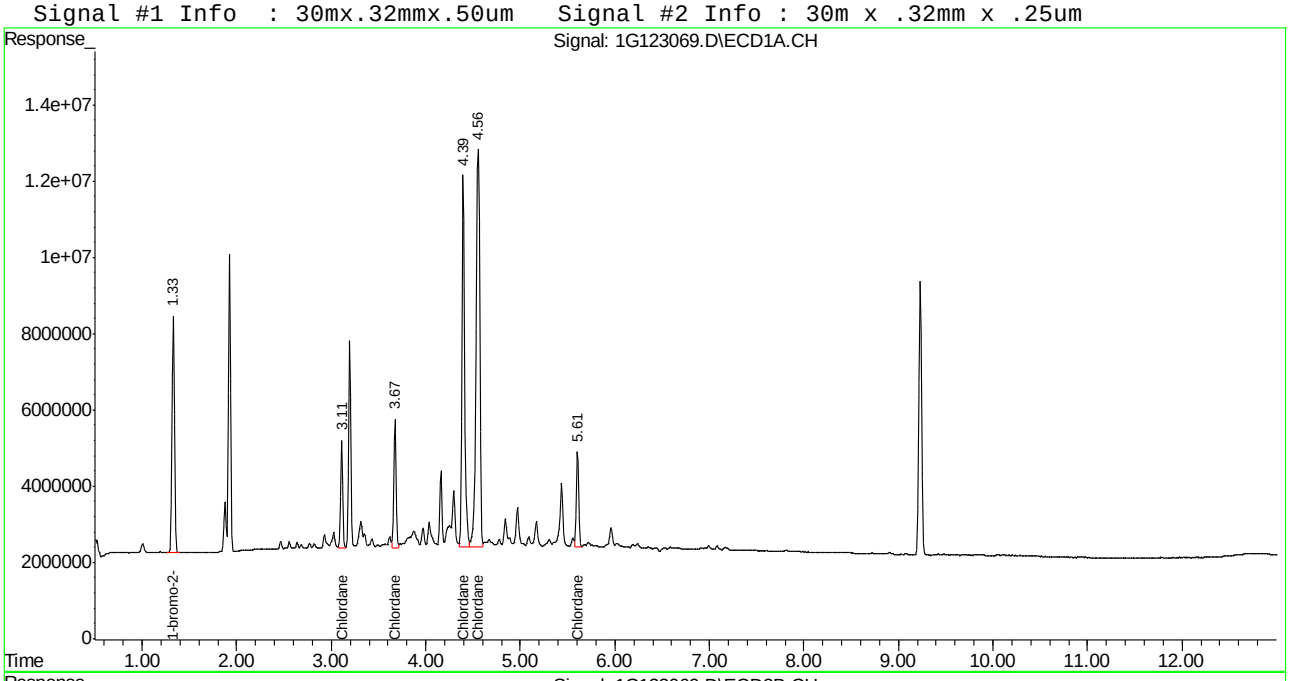
(f)=RT Delta > 1/2 Window (m)=manual int.
1G123069.D 1PST3988.M Mon May 16 13:26:21 2016 RPT1 Page 1

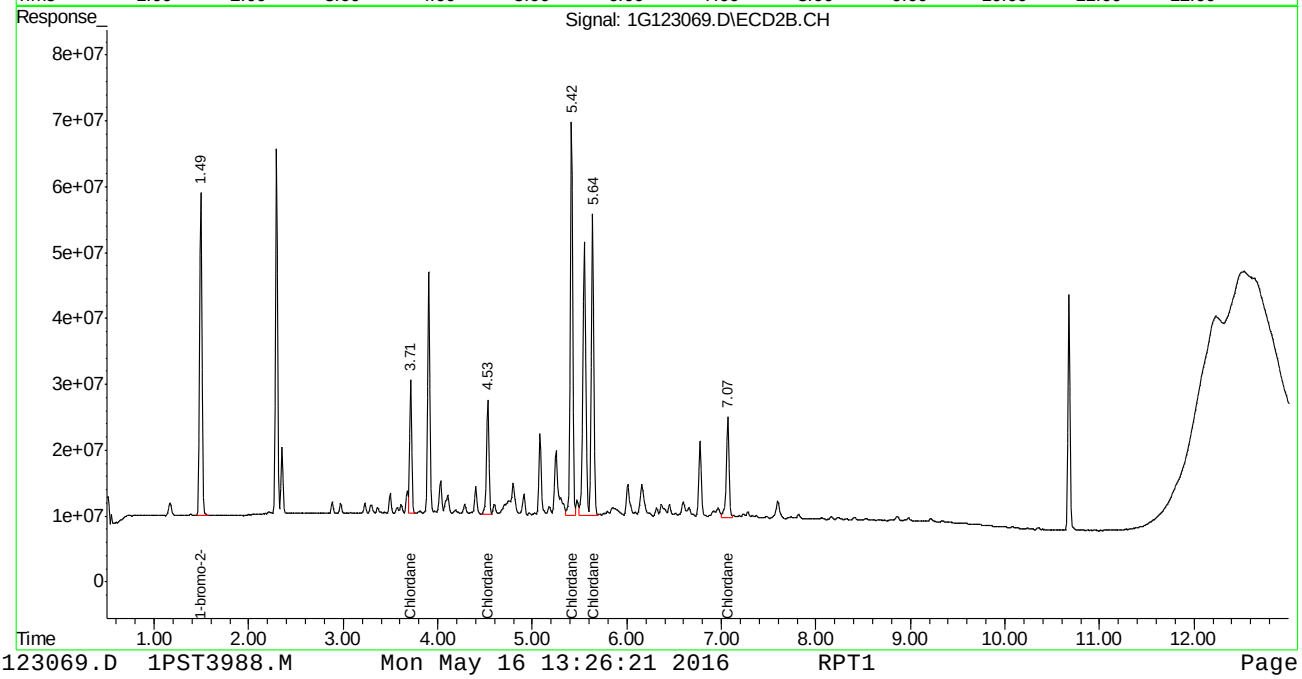
Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\1G3988\1G123069.D\ECD1A.CH Vial: 14
Signal #2 : C:\MSDCHEM\1\DATA\1G3988\1G123069.D\ECD2B.CH
Acq On : 16 May 2016 12:31 pm Operator: thomasl
Sample : ic3988-500 Inst : GC1G
Misc : op93854,g1g3988,930,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: May 16 13:26 2016 Quant Results File: 1PST3988.RES

Quant Method : C:\MSDCHEM\1\METHODS\1PST3988.M (Chemstation Integrator)
Title : PEST/PCB
Last Update : Mon May 16 09:01:14 2016
Response via : Multiple Level Calibration
DataAcq Meth : 1PST3988.M

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.50um Signal #2 Info : 30m x .32mm x .25um





SGS ACCUTEST JC21347

Manual Integration Approval Summary

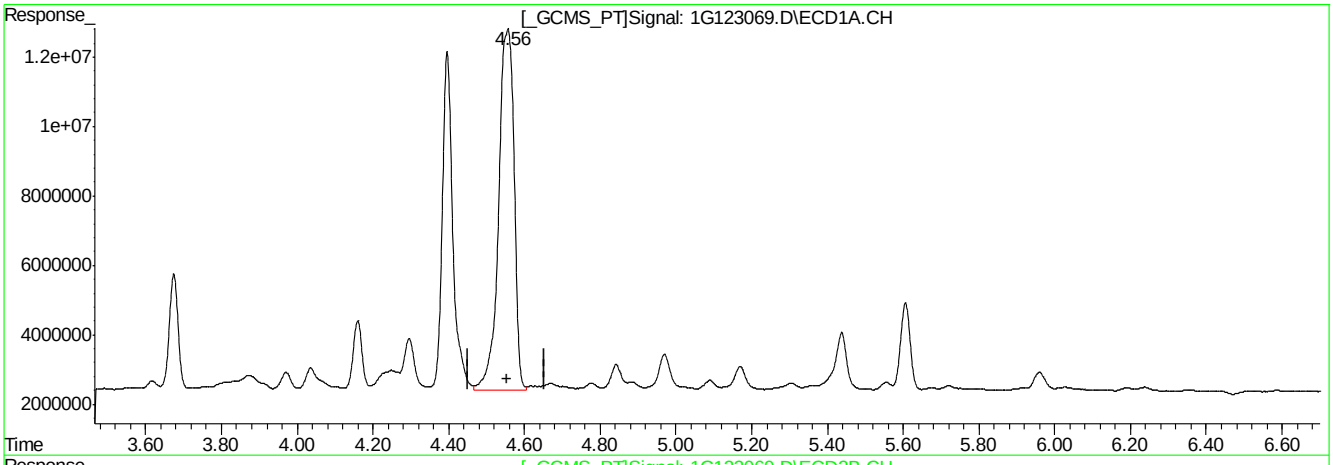
Sample Number:	G1G3988-IC3988	**Method:**	SW846 8081B
Lab FileID:	1G123069.D	**Analyst approved:**	05/16/16 15:18 Dhara Saparia
Injection Time:	05/16/16 12:31	**Supervisor approved:**	05/16/16 17:43 Gwendolyn Burns

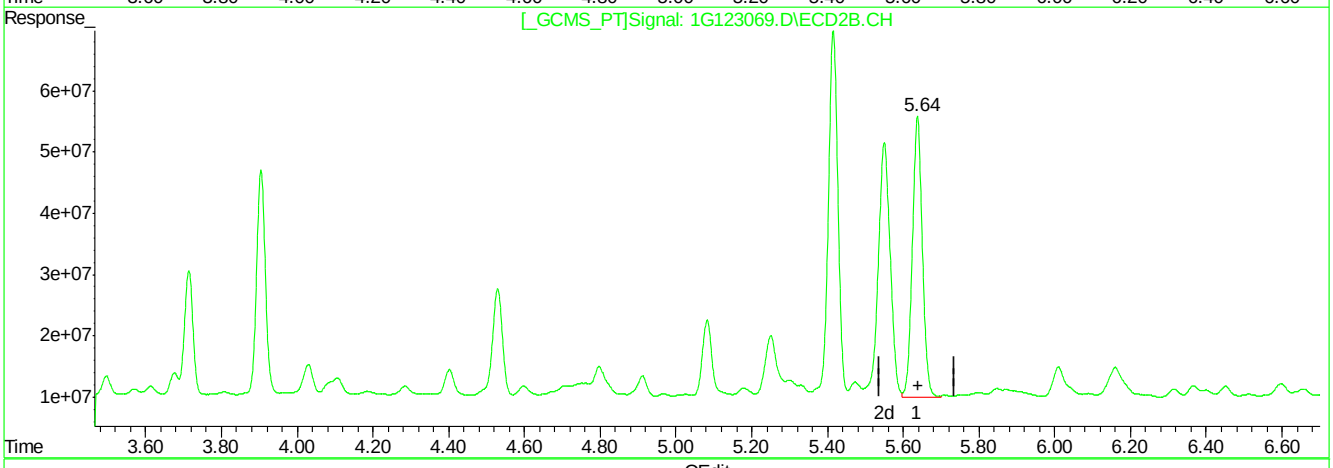
Parameter	CAS	Sig#	R.T. (min.)	Reason
Chlordane-D		2	5.64	Poor instrument integration

Quantitation Report (Qedit)

```
Signal #1 : C:\MSDCHEM\1\DATA\1G3988\1G123069.D\ECD1A.CH Vial: 14
Signal #2 : C:\MSDCHEM\1\DATA\1G3988\1G123069.D\ECD2B.CH
Acq On    : 16 May 2016  12:31 pm                    Operator: thomasl
Sample    : ic3988-500                               Inst    : GC1G
Misc      : op93854,g1g3988,930,,,10,1               Multiplr: 1.00
IntFile Signal #1: autoint1.e     IntFile Signal #2: autoint2.e
Quant Time: May 16 13:08 2016  Quant Results File: 1PST3988.RES

Method       : C:\MSDCHEM\1\METHODS\1PST3988.M (Chemstation Integrator)
Title        : PEST/PCB
Last Update  : Mon May 16 09:01:14 2016
Response via : Multiple Level Calibration
```





QEdit

(35) Chlordane {D}

4.56min 550.296PPB

response 295995575

(35) Chlordane {D} #2

5.64min 265.578PPB

response 838910491

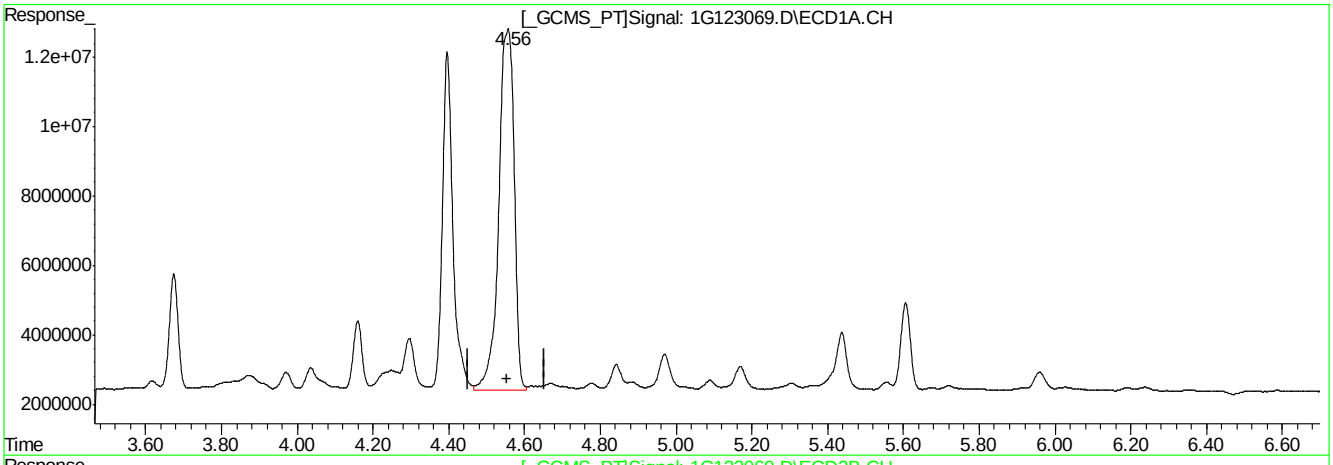
(+) = Expected Retention Time

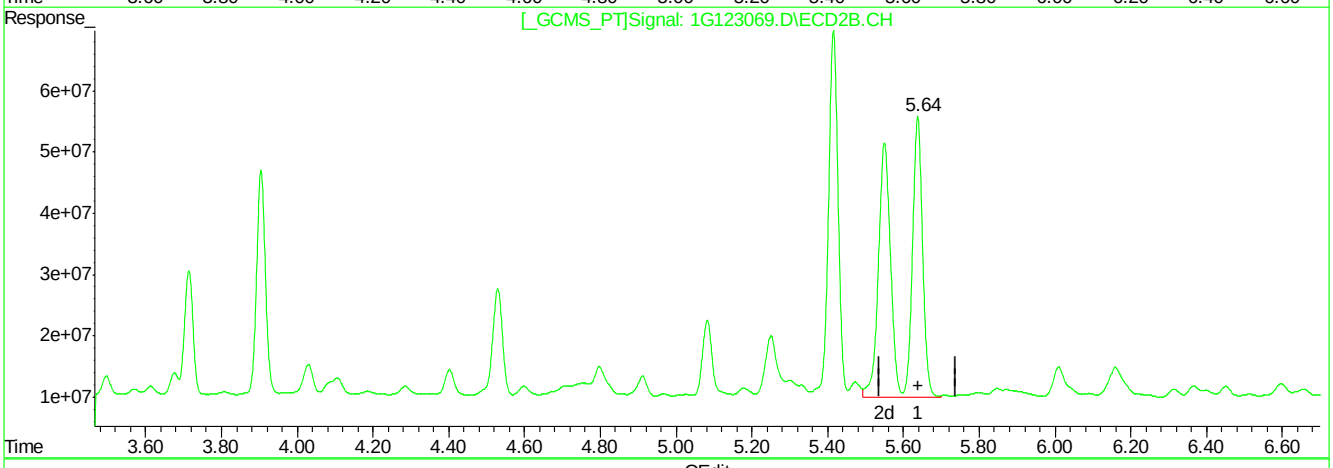
1G123069.D 1PST3988.M Mon May 16 13:08:12 2016 RPT1

Quantitation Report (Qedit)

```
Signal #1 : C:\MSDCHEM\1\DATA\1G3988\1G123069.D\ECD1A.CH Vial: 14
Signal #2 : C:\MSDCHEM\1\DATA\1G3988\1G123069.D\ECD2B.CH
Acq On    : 16 May 2016  12:31 pm                    Operator: thomasl
Sample    : ic3988-500                               Inst    : GC1G
Misc      : op93854,g1g3988,930,,,10,1               Multiplr: 1.00
IntFile Signal #1: autoint1.e     IntFile Signal #2: autoint2.e
Quant Time: May 16 13:08 2016  Quant Results File: 1PST3988.RES


Method       : C:\MSDCHEM\1\METHODS\1PST3988.M (Chemstation Integrator)
Title        : PEST/PCB
Last Update  : Mon May 16 09:01:14 2016
Response via : Multiple Level Calibration
```





QEdit

(35) Chlordane {D}

4.56min 550.296PPB

response 295995575

(35) Chlordane {D} #2

5.64min 554.452PPB m

response 1751408243

(+) = Expected Retention Time

1G123069.D 1PST3988.M Mon May 16 13:09:04 2016 RPT1

Manual Integrations APPROVED (compounds with "m" flag)
Gwendolyn Burns 05/16/16 17:43

Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\1G3988\1G123070.D\ECD1A.CH Vial: 15
Signal #2 : C:\MSDCHEM\1\DATA\1G3988\1G123070.D\ECD2B.CH
Acq On : 16 May 2016 12:48 pm Operator: thomasl
Sample : ic3988-500 Inst : GC1G
Misc : op93854,g1g3988,930,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: May 16 13:26 2016 Quant Results File: 1PST3988.RES

Quant Method : C:\MSDCHEM\1\METHODS\1PST3988.M (Chemstation Integrator)
Title : PEST/PCB
Last Update : Mon May 16 09:01:14 2016
Response via : Initial Calibration
DataAcq Meth : 1PST3988.M

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.50um Signal #2 Info : 30m x .32mm x .25um

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	Internal Standards						
25) I	1-bromo-2-nitrob	1.33	1.49	123.2E6	905.8E6	50.000	50.000
	System Monitoring Compounds						
	Target Compounds						
26) L8	Toxaphene{A}	5.08	6.12	20160542	122.0E6	498.711	522.284
27) L8	Toxaphene{B}	5.69	6.96	57479048	263.2E6	665.347	775.867
28) L8	Toxaphene{C}	5.87	7.12	30957300	459.8E6	476.346m	584.300m
29) L8	Toxaphene{D}	6.20	7.56	35322203	286.1E6	520.794	577.370
30) L8	Toxaphene{E}	6.85	8.44	40690779	273.5E6	526.068	646.077

11.6.10 11

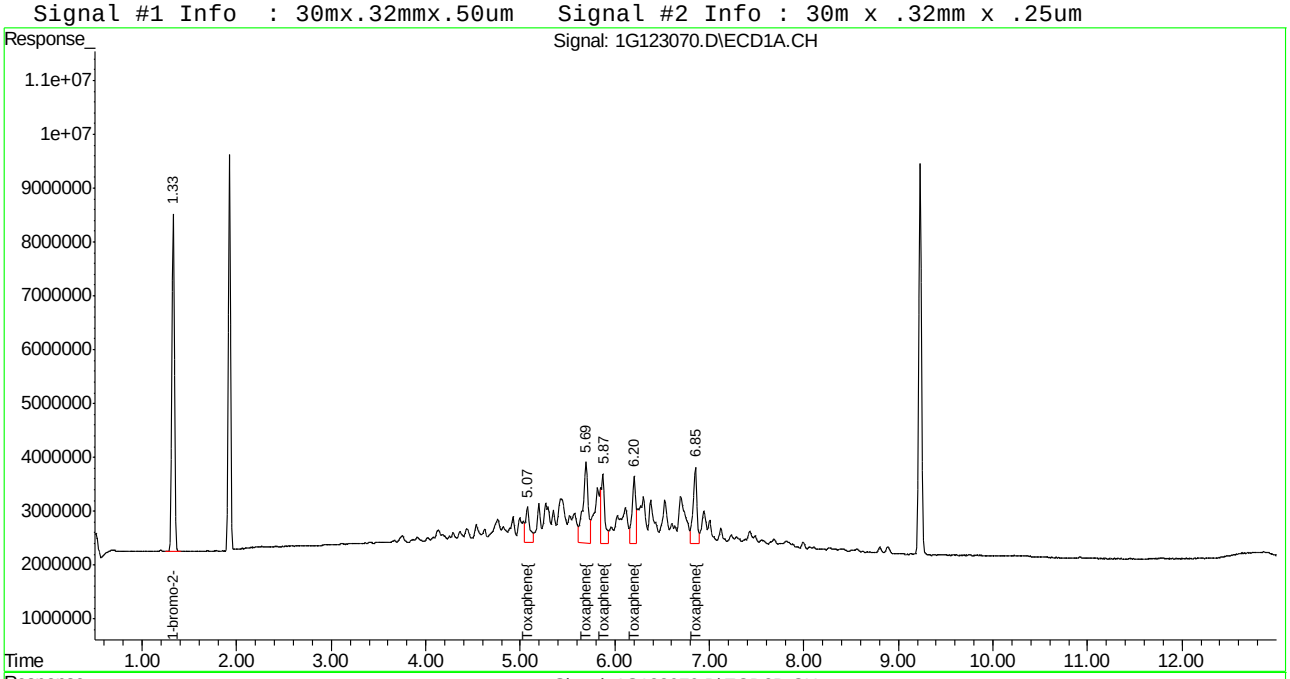
(f)=RT Delta > 1/2 Window (m)=manual int.
1G123070.D 1PST3988.M Mon May 16 13:26:42 2016 RPT1 Page 1

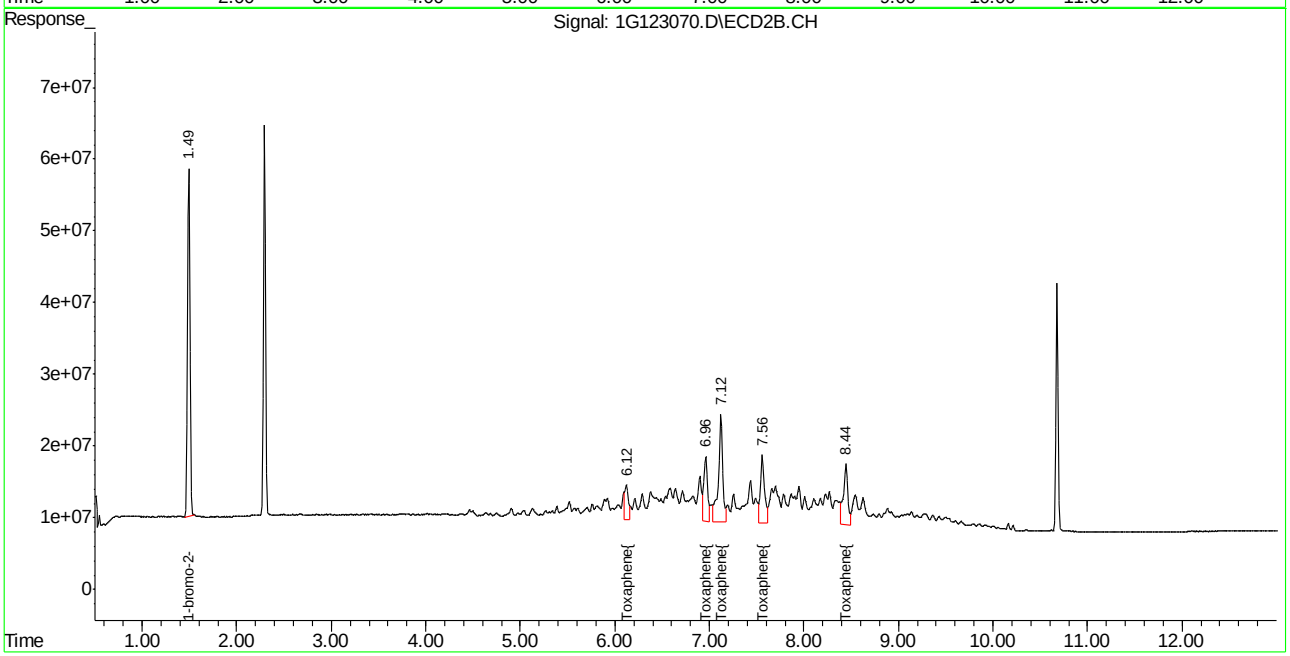
Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\1G3988\1G123070.D\ECD1A.CH Vial: 15
Signal #2 : C:\MSDCHEM\1\DATA\1G3988\1G123070.D\ECD2B.CH
Acq On : 16 May 2016 12:48 pm Operator: thomasl
Sample : ic3988-500 Inst : GC1G
Misc : op93854,g1g3988,930,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: May 16 13:26 2016 Quant Results File: 1PST3988.RES

Quant Method : C:\MSDCHEM\1\METHODS\1PST3988.M (Chemstation Integrator)
Title : PEST/PCB
Last Update : Mon May 16 09:01:14 2016
Response via : Multiple Level Calibration
DataAcq Meth : 1PST3988.M

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.50um Signal #2 Info : 30m x .32mm x .25um





Manual Integration Approval Summary

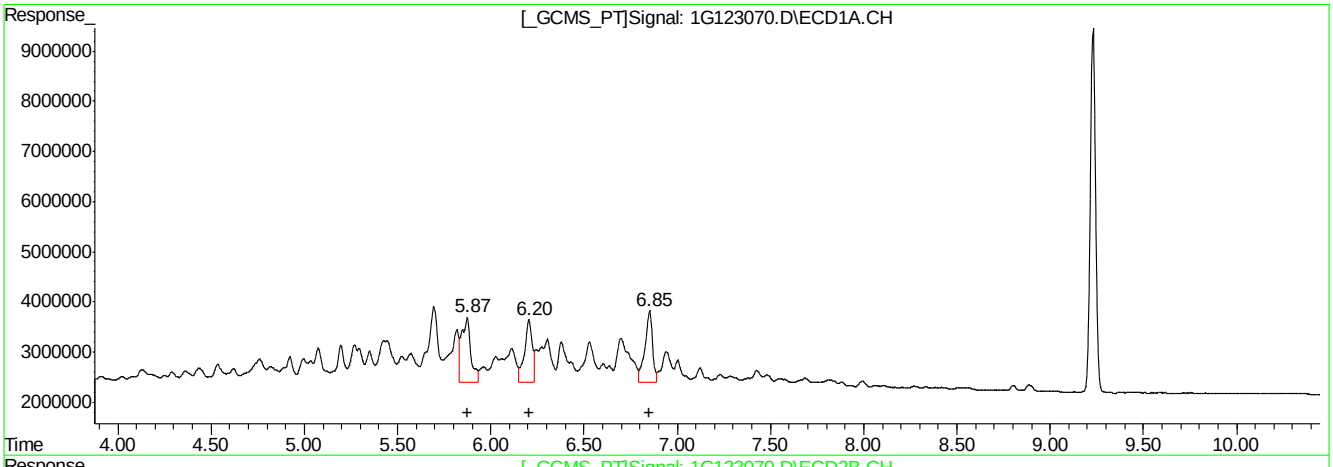
Sample Number:	G1G3988-IC3988	**Method:**	SW846 8081B
Lab FileID:	1G123070.D	**Analyst approved:**	05/16/16 15:18 Dhara Saparia
Injection Time:	05/16/16 12:48	**Supervisor approved:**	05/16/16 17:43 Gwendolyn Burns

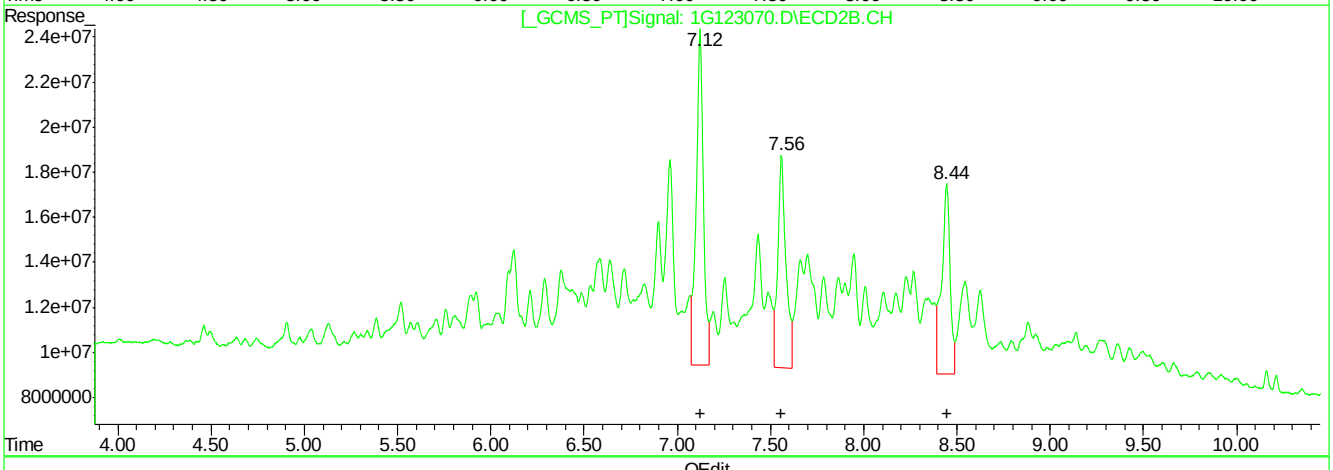
Parameter	CAS	Sig#	R.T. (min.)	Reason
Toxaphene-C		1	5.87	Poor instrument integration
Toxaphene-C		2	7.12	Poor instrument integration

Quantitation Report (Qedit)

```
Signal #1 : C:\MSDCHEM\1\DATA\1G3988\1G123070.D\ECD1A.CH Vial: 15
Signal #2 : C:\MSDCHEM\1\DATA\1G3988\1G123070.D\ECD2B.CH
Acq On    : 16 May 2016  12:48 pm                    Operator: thomasl
Sample    : ic3988-500                               Inst    : GC1G
Misc      : op93854,g1g3988,930,,,10,1               Multiplr: 1.00
IntFile Signal #1: autoint1.e     IntFile Signal #2: autoint2.e
Quant Time: May 16 13:14 2016  Quant Results File: 1PST3988.RES

Method       : C:\MSDCHEM\1\METHODS\1PST3988.M (Chemstation Integrator)
Title        : PEST/PCB
Last Update  : Mon May 16 09:01:14 2016
Response via : Multiple Level Calibration
```





QEdit

(28) Toxaphene{C} (L8)

R.T.	Response	Conc
5.87	43893204	675.39
6.20	35322203	520.79
6.85	40690779	526.07

(28) Toxaphene{C} #2 (L8)

R.T.	Response	Conc
7.12	396795147	504.20
7.56	286123301	577.37
8.44	273520737	646.08

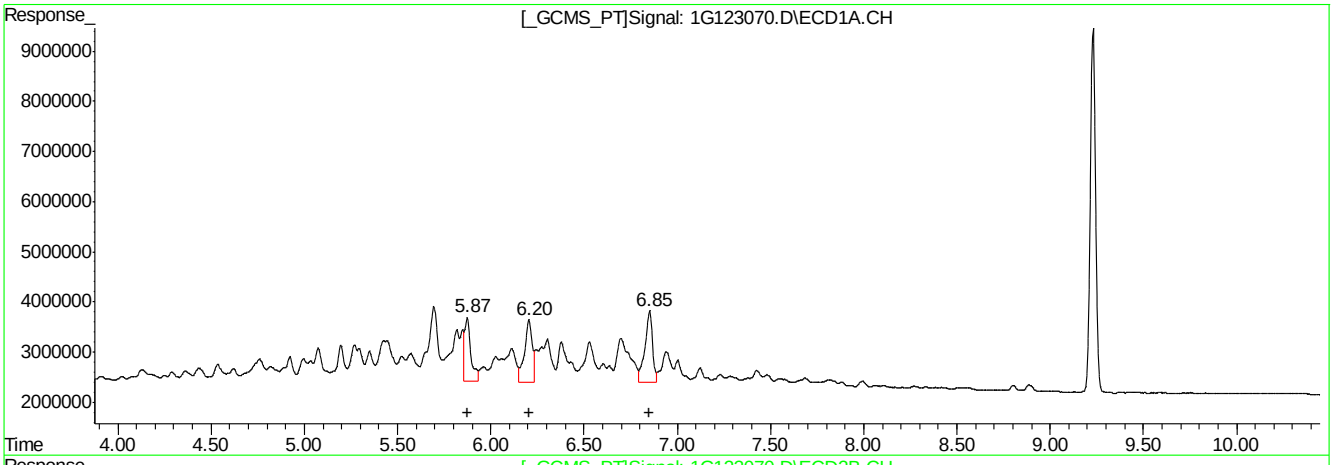
(+) = Expected Retention Time

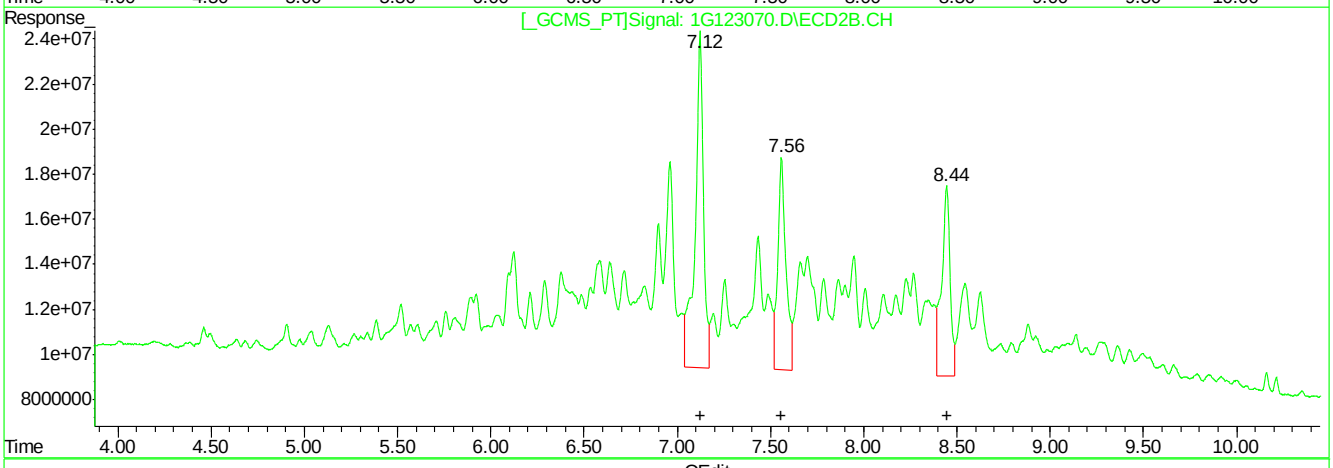
1G123070.D 1PST3988.M Mon May 16 13:19:55 2016 RPT1

Quantitation Report (Qedit)

Signal #1 : C:\MSDCHEM\1\DATA\1G3988\1G123070.D\ECD1A.CH Vial: 15
Signal #2 : C:\MSDCHEM\1\DATA\1G3988\1G123070.D\ECD2B.CH
Acq On : 16 May 2016 12:48 pm Operator: thomasl
Sample : ic3988-500 Inst : GC1G
Misc : op93854,g1g3988,930,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: May 16 13:14 2016 Quant Results File: 1PST3988.RES

Method : C:\MSDCHEM\1\METHODS\1PST3988.M (Chemstation Integrator)
Title : PEST/PCB
Last Update : Mon May 16 09:01:14 2016
Response via : Multiple Level Calibration





QEdit

(28) Toxaphene{C} #2 (L8)

R.T.	Response	Conc
5.87	30957300	476.35
6.20	35322203	520.79
6.85	40690779	526.07

(28) Toxaphene{C} #2 (L8)

R.T.	Response	Conc
7.12	459829039	584.30
7.56	286123301	577.37
8.44	273520737	646.08

(+) = Expected Retention Time

1G123070.D 1PST3988.M Mon May 16 13:21:52 2016 RPT1

SGS ACCUTEST JC21347

Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\1G3988\1G123071.D\ECD1A.CH Vial: 16
Signal #2 : C:\MSDCHEM\1\DATA\1G3988\1G123071.D\ECD2B.CH
Acq On : 5-16-16 01:06:17 PM Operator: thomasl
Sample : icv3988-25 Inst : GC1G
Misc : op93854,g1g3988,930,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: May 16 17:23 2016 Quant Results File: 1PST3988.RES

Quant Method : C:\MSDCHEM\1\METHODS\1PST3988.M (Chemstation Integrator)
Title : PEST/PCB
Last Update : Mon May 16 17:21:26 2016
Response via : Initial Calibration
DataAcq Meth : 1PST3988.M

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.50um Signal #2 Info : 30m x .32mm x .25um

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	Internal Standards						
1) I	1-bromo-2-nitrob	1.33	1.49	125.2E6	922.1E6	50.000	50.000
25) I	1-bromo-2-nitrob	1.33	1.49	125.2E6	922.1E6	50.000	50.000
31) I	1-bromo-2-nitrob	1.33	1.49	125.2E6	922.1E6	50.000	50.000
	System Monitoring Compounds						
2) SAB	Tetrachloro-m-xy	1.92	2.29	53419128	393.3E6	23.624	23.987
Spiked Amount	40.000 Range	30 - 150	Recovery	=		59.06%	59.97%
24) SA	Decachlorobiphen	9.23	10.68	71179744	270.2E6	23.136	23.468
Spiked Amount	40.000		Recovery	=		57.84%	58.67%
	Target Compounds						
3) A	alpha-BHC	2.41	2.94	69973400	549.9E6	21.626	22.397
4) MA	gamma-BHC	2.71	3.35	66781531	500.5E6	22.081	22.520
5) MA	Heptachlor	3.19	3.90	65404367	461.2E6	21.249	22.221
6) B	beta-BHC	2.78	3.43	31083974	226.9E6	21.481	22.291
7) B	delta-BHC	2.97	3.81	68657461	522.6E6	23.158	23.527
8) MB	Aldrin	3.53	4.34	61093108	442.8E6	21.773	23.294
9) B	Heptachlor Epoxi	4.24	5.14	60578460	393.3E6	22.001	23.188
10) B	gamma-Chlordane	4.40	5.42	61356009	407.7E6	21.605	23.534
11) B	alpha-Chlordane	4.56	5.64	60710912	389.7E6	21.523	22.652
12) A	Endosulfan I	4.75	5.73	56933601	366.9E6	20.967	23.140
13) B	4,4'-DDE	4.68	5.90	61141327	390.5E6	21.479	22.881
14) MA	Dieldrin	5.07	6.15	61381168	410.2E6	21.711	23.086
15) MA	Endrin	5.39	6.65	54757160	346.2E6	21.377	22.030
16) A	4,4'-DDD	5.51	6.83	48859032	325.7E6	21.872	23.151
17) B	Endosulfan II	5.71	6.99	57469158	359.5E6	21.390	22.452
18) MA	4,4'-DDT	5.92	7.36	50470978	309.2E6	20.745	22.531
19) B	Endrin Aldehyde	6.34	7.56	47393363	293.9E6	22.319	23.920
20) B	Endosulfan Sulfa	7.03	8.02	54345520	324.3E6	21.075	23.134
21) A	Methoxychlor	6.70	8.60	29944802	158.4E6	20.420	21.555
23) B	Endrin Ketone	7.46	8.97	63565849	362.6E6	21.784	23.099

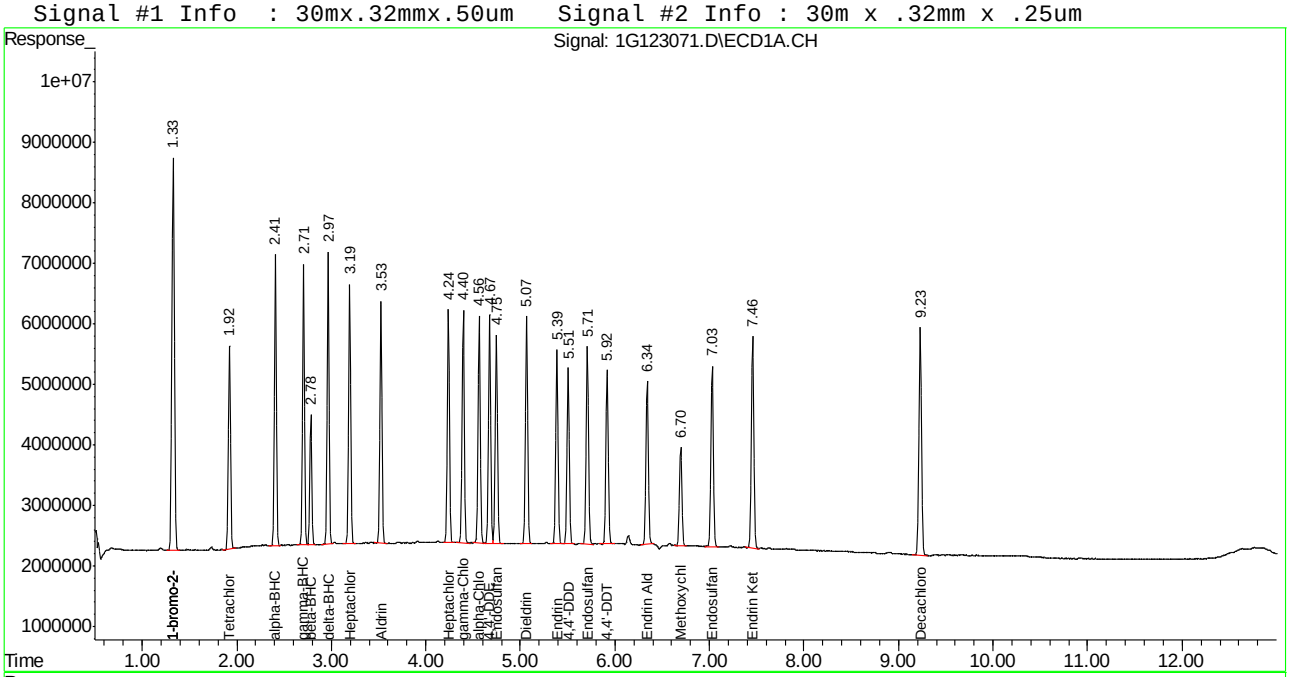
(f)=RT Delta > 1/2 Window (m)=manual int.
1G123071.D 1PST3988.M Mon May 16 17:23:59 2016 RPT1 Page 1

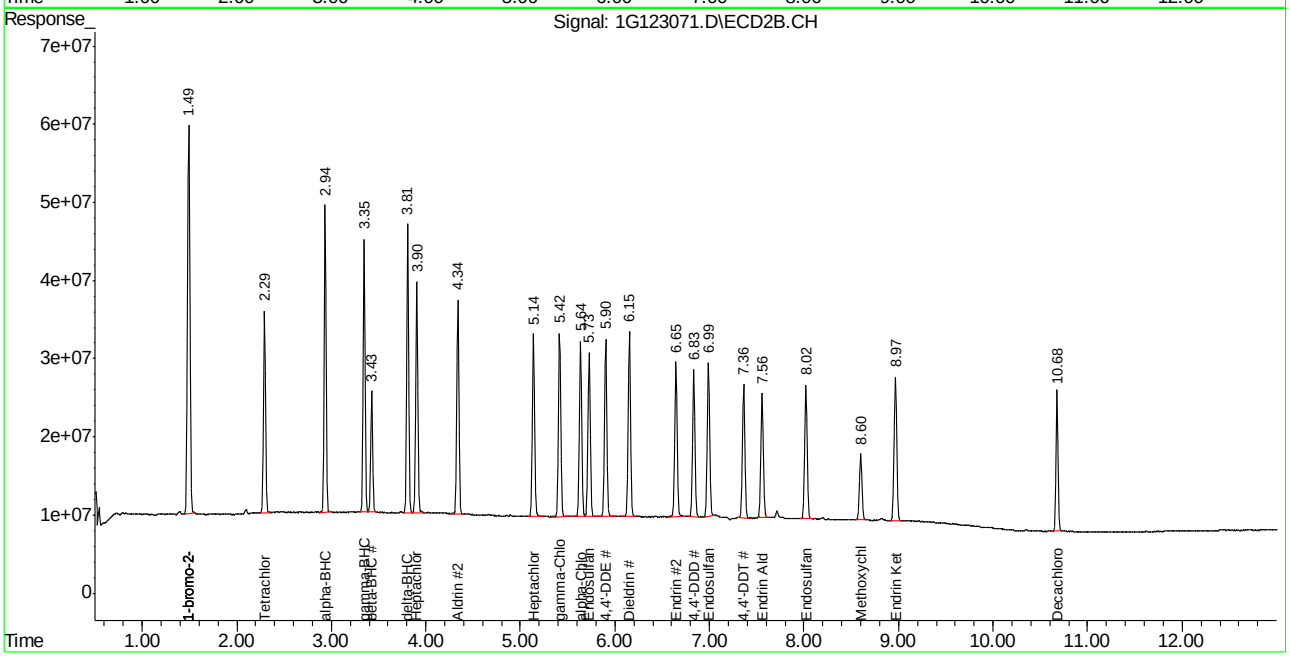
Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\1G3988\1G123071.D\ECD1A.CH Vial: 16
Signal #2 : C:\MSDCHEM\1\DATA\1G3988\1G123071.D\ECD2B.CH
Acq On : 5-16-16 01:06:17 PM Operator: thomasl
Sample : icv3988-25 Inst : GC1G
Misc : op93854,g1g3988,930,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: May 16 17:23 2016 Quant Results File: 1PST3988.RES

Quant Method : C:\MSDCHEM\1\METHODS\1PST3988.M (Chemstation Integrator)
Title : PEST/PCB
Last Update : Mon May 16 17:21:26 2016
Response via : Multiple Level Calibration
DataAcq Meth : 1PST3988.M

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.50um Signal #2 Info : 30m x .32mm x .25um





SGS ACCUTEST JC21347

Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\1G3988\1G123072.D\ECD1A.CH Vial: 17
Signal #2 : C:\MSDCHEM\1\DATA\1G3988\1G123072.D\ECD2B.CH
Acq On : 5-16-16 01:23:45 PM Operator: thomasl
Sample : icv3988-25 Inst : GC1G
Misc : op93854,g1g3988,930,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: May 16 17:24 2016 Quant Results File: 1PST3988.RES

Quant Method : C:\MSDCHEM\1\METHODS\1PST3988.M (Chemstation Integrator)
Title : PEST/PCB
Last Update : Mon May 16 17:21:26 2016
Response via : Initial Calibration
DataAcq Meth : 1PST3988.M

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.50um Signal #2 Info : 30m x .32mm x .25um

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	Internal Standards						
1) I	1-bromo-2-nitrob	1.33	1.50	124.5E6	923.2E6	50.000	50.000
25) I	1-bromo-2-nitrob	1.33	1.50	124.5E6	923.2E6	50.000	50.000
31) I	1-bromo-2-nitrob	1.33	1.50	124.5E6	923.2E6	50.000	50.000
	System Monitoring Compounds						
	Target Compounds						
22)	Mirex	6.83	8.90	55767800	276.1E6	22.863	23.537

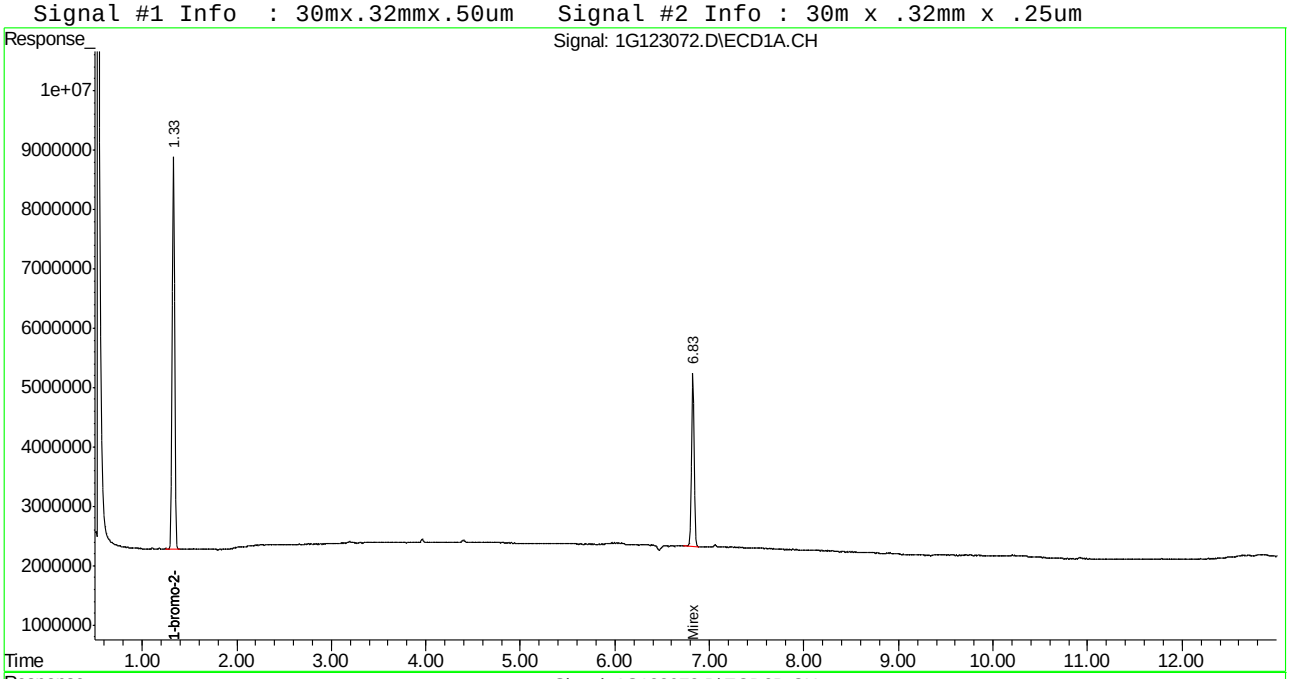
(f)=RT Delta > 1/2 Window (m)=manual int.
1G123072.D 1PST3988.M Mon May 16 17:24:33 2016 RPT1 Page 1

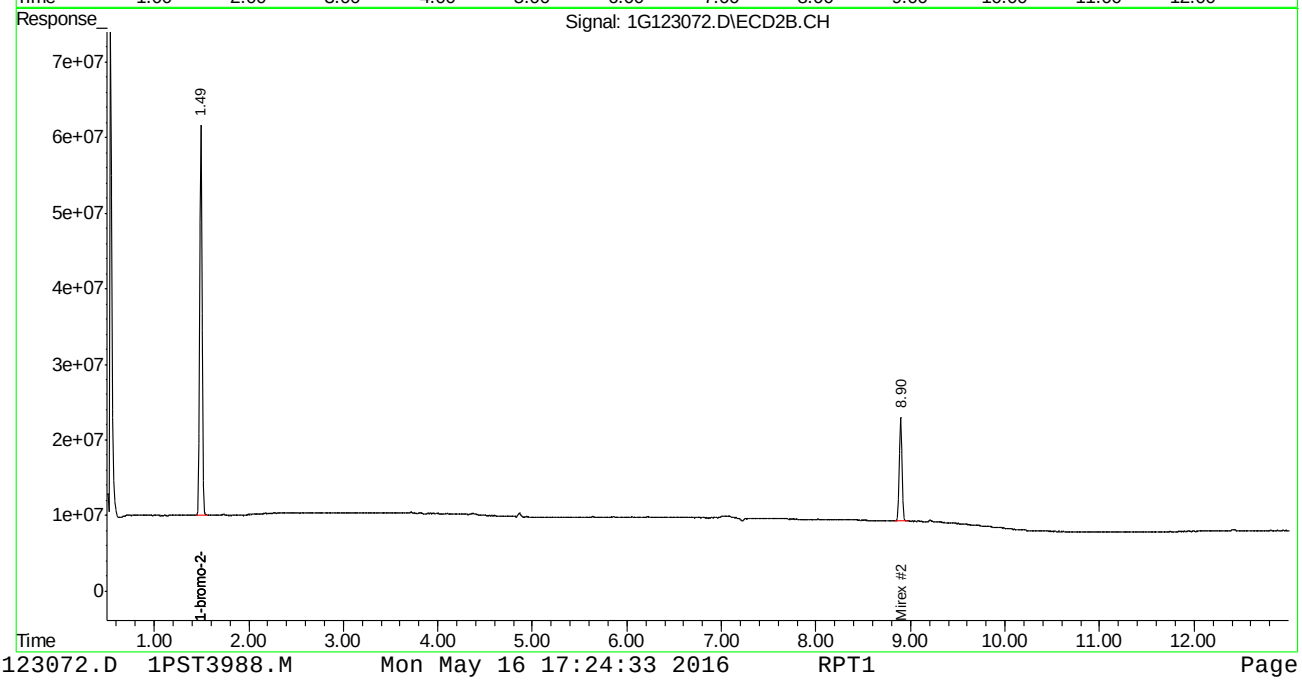
Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\1G3988\1G123072.D\ECD1A.CH Vial: 17
Signal #2 : C:\MSDCHEM\1\DATA\1G3988\1G123072.D\ECD2B.CH
Acq On : 5-16-16 01:23:45 PM Operator: thomasl
Sample : icv3988-25 Inst : GC1G
Misc : op93854,g1g3988,930,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: May 16 17:24 2016 Quant Results File: 1PST3988.RES

Quant Method : C:\MSDCHEM\1\METHODS\1PST3988.M (Chemstation Integrator)
Title : PEST/PCB
Last Update : Mon May 16 17:21:26 2016
Response via : Multiple Level Calibration
DataAcq Meth : 1PST3988.M

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.50um Signal #2 Info : 30m x .32mm x .25um





1G123072.D 1PST3988.M Mon May 16 17:24:33 2016 RPT1 Page 2

Manual Integrations APPROVED (compounds with "m" flag)
Gwendolyn Burns 05/16/16 17:43

Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\1G3988\1G123073.D\ECD1A.CH Vial: 18
Signal #2 : C:\MSDCHEM\1\DATA\1G3988\1G123073.D\ECD2B.CH
Acq On : 5-16-16 01:41:21 PM Operator: thomasl
Sample : icv3988-500 Inst : GC1G
Misc : op93854,g1g3988,930,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: May 16 14:56 2016 Quant Results File: 1PST3988.RES

Quant Method : C:\MSDCHEM\1\METHODS\1PST3988.M (Chemstation Integrator)
Title : PEST/PCB
Last Update : Mon May 16 13:30:31 2016
Response via : Initial Calibration
DataAcq Meth : 1PST3988.M

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.50um Signal #2 Info : 30m x .32mm x .25um

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	Internal Standards						
1) I	1-bromo-2-nitrob	1.33	1.49	123.5E6	900.2E6	50.000	50.000
25) I	1-bromo-2-nitrob	1.33	1.49	123.5E6	900.2E6	50.000	50.000
31) I	1-bromo-2-nitrob	1.33	1.49	123.5E6	900.2E6	50.000	50.000
	System Monitoring Compounds						
2) SAB	Tetrachloro-m-xy	1.92	2.29	105.8E6	734.7E6	47.413	45.875
Spiked Amount	40.000	Range	30 - 150	Recovery	=	118.53%	114.69%
24) SA	Decachlorobiphen	9.23	10.68	139.4E6	525.8E6	45.949	46.731
Spiked Amount	40.000			Recovery	=	114.87%	116.83%
	Target Compounds						
32)	Chlordane {A}	3.11	3.71	48030860	359.5E6	531.033	543.871
33)	Chlordane {B}	3.67	4.53	54143132	326.9E6	460.895	488.212
34)	Chlordane {C}	4.40	5.42	175.2E6	999.5E6	437.175	456.024
35)	Chlordane {D}	4.55	5.64	279.1E6	1667.0E6	445.780	459.597m
36)	Chlordane {E}	5.60	7.07	43378325	296.3E6	463.521	453.997

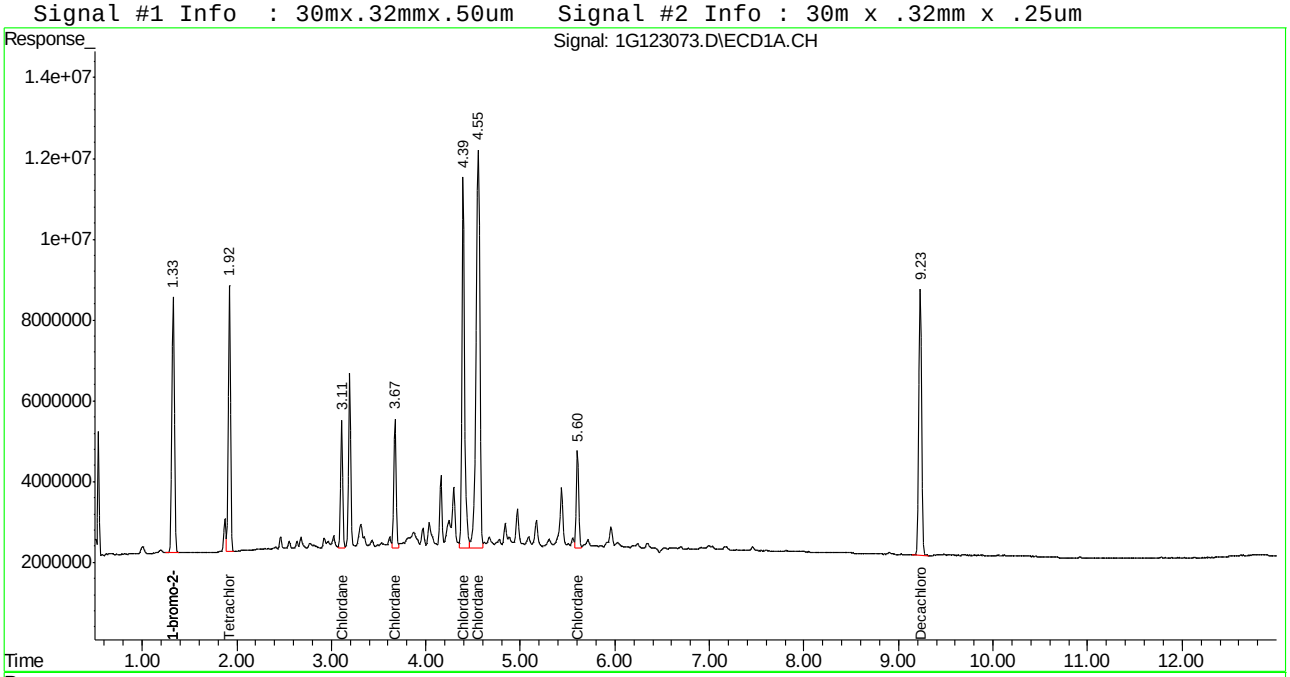
(f)=RT Delta > 1/2 Window (m)=manual int.
1G123073.D 1PST3988.M Mon May 16 14:57:03 2016 RPT1 Page 1

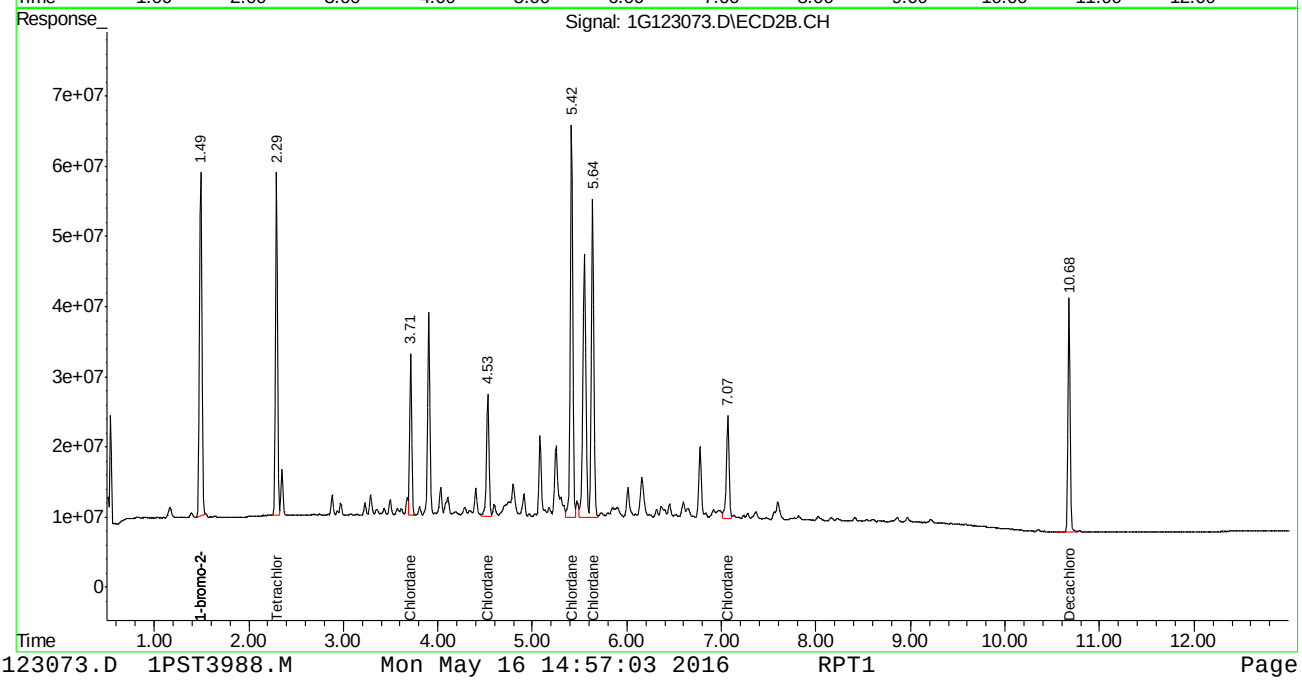
Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\1G3988\1G123073.D\ECD1A.CH Vial: 18
Signal #2 : C:\MSDCHEM\1\DATA\1G3988\1G123073.D\ECD2B.CH
Acq On : 5-16-16 01:41:21 PM Operator: thomasl
Sample : icv3988-500 Inst : GC1G
Misc : op93854,g1g3988,930,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: May 16 14:56 2016 Quant Results File: 1PST3988.RES

Quant Method : C:\MSDCHEM\1\METHODS\1PST3988.M (Chemstation Integrator)
Title : PEST/PCB
Last Update : Mon May 16 13:30:31 2016
Response via : Multiple Level Calibration
DataAcq Meth : 1PST3988.M

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.50um Signal #2 Info : 30m x .32mm x .25um





1G123073.D 1PST3988.M Mon May 16 14:57:03 2016 RPT1 Page 2

Manual Integration Approval Summary

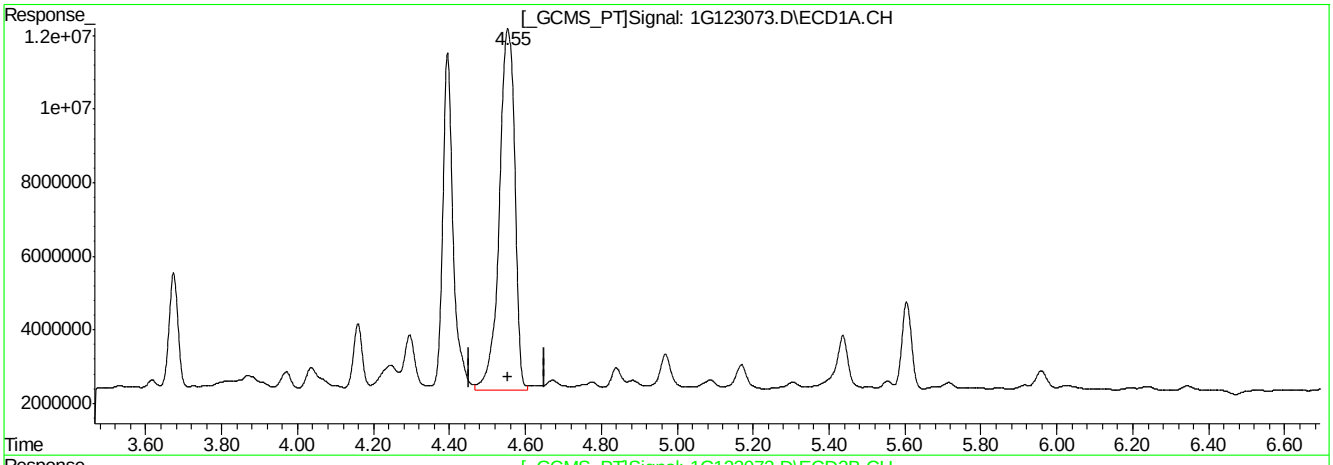
Sample Number:	G1G3988-ICV3988	**Method:**	SW846 8081B
Lab FileID:	1G123073.D	**Analyst approved:**	05/16/16 15:18 Dhara Saparia
Injection Time:	05/16/16 13:41	**Supervisor approved:**	05/16/16 17:43 Gwendolyn Burns

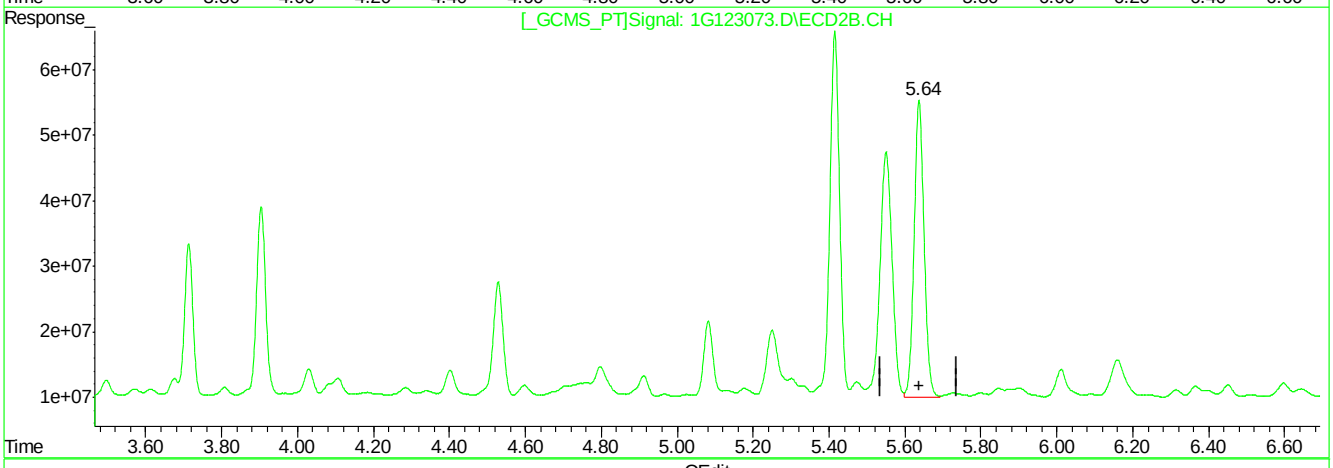
Parameter	CAS	Sig#	R.T. (min.)	Reason
Chlordane-D		2	5.64	Poor instrument integration

Quantitation Report (Qedit)

```
Signal #1 : C:\MSDCHEM\1\DATA\1G3988\1G123073.D\ECD1A.CH Vial: 18
Signal #2 : C:\MSDCHEM\1\DATA\1G3988\1G123073.D\ECD2B.CH
Acq On    : 5-16-16 01:41:21 PM                      Operator: thomasl
Sample    : icv3988-500                              Inst    : GC1G
Misc      : op93854,g1g3988,930,,,10,1               Multiplr: 1.00
IntFile Signal #1: autoint1.e     IntFile Signal #2: autoint2.e
Quant Time: May 16 14:55 2016  Quant Results File: 1PST3988.RES

Method       : C:\MSDCHEM\1\METHODS\1PST3988.M (Chemstation Integrator)
Title        : PEST/PCB
Last Update  : Mon May 16 13:30:31 2016
Response via : Multiple Level Calibration
```





QEdit

(35) Chlordane {D}

4.55min 445.780PPB

response 279058613

(35) Chlordane {D} #2

5.64min 228.397PPB

response 828390770

(+) = Expected Retention Time

1G123073.D 1PST3988.M Mon May 16 14:56:04 2016 RPT1

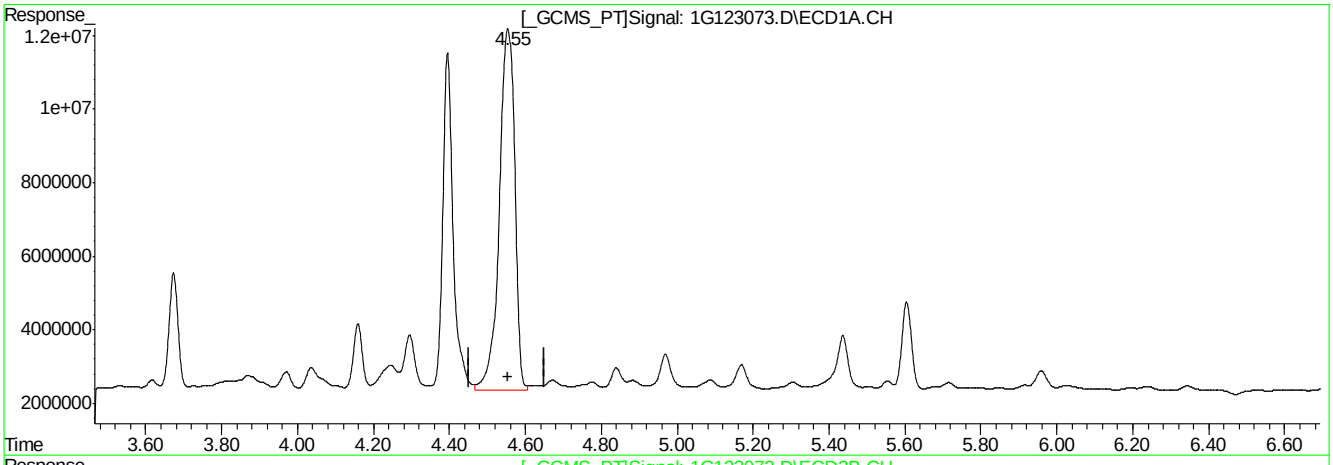
11.6.13.2

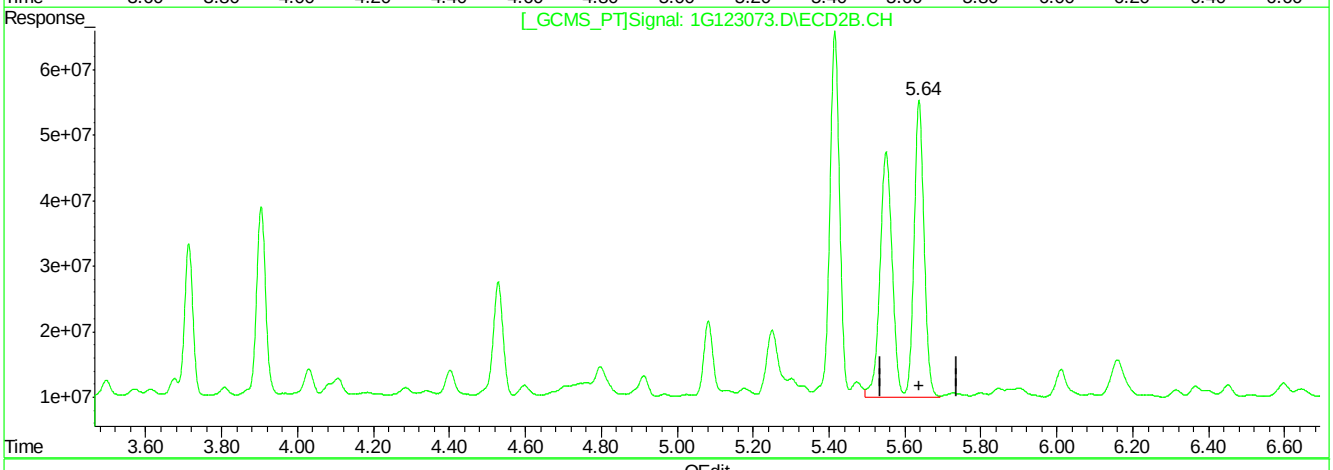
11

Quantitation Report (Qedit)

```
Signal #1 : C:\MSDCHEM\1\DATA\1G3988\1G123073.D\ECD1A.CH Vial: 18
Signal #2 : C:\MSDCHEM\1\DATA\1G3988\1G123073.D\ECD2B.CH
Acq On    : 5-16-16 01:41:21 PM                      Operator: thomasl
Sample    : icv3988-500                              Inst    : GC1G
Misc      : op93854,g1g3988,930,,,10,1               Multiplr: 1.00
IntFile Signal #1: autoint1.e     IntFile Signal #2: autoint2.e
Quant Time: May 16 14:55 2016  Quant Results File: 1PST3988.RES


Method       : C:\MSDCHEM\1\METHODS\1PST3988.M (Chemstation Integrator)
Title        : PEST/PCB
Last Update  : Mon May 16 13:30:31 2016
Response via : Multiple Level Calibration
```





QEdit

(35) Chlordane {D}

4.55min 445.780PPB

response 279058613

(35) Chlordane {D} #2

5.64min 459.597PPB m

response 1666951512

(+) = Expected Retention Time

1G123073.D 1PST3988.M Mon May 16 14:56:47 2016 RPT1

Manual Integrations APPROVED (compounds with "m" flag)
Gwendolyn Burns 05/16/16 17:43

Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\1G3988\1G123074.D\ECD1A.CH Vial: 19
Signal #2 : C:\MSDCHEM\1\DATA\1G3988\1G123074.D\ECD2B.CH
Acq On : 5-16-16 01:58:48 PM Operator: thomasl
Sample : icv3988-500 Inst : GC1G
Misc : op93854,g1g3988,930,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: May 16 15:06 2016 Quant Results File: 1PST3988.RES

Quant Method : C:\MSDCHEM\1\METHODS\1PST3988.M (Chemstation Integrator)
Title : PEST/PCB
Last Update : Mon May 16 13:30:31 2016
Response via : Initial Calibration
DataAcq Meth : 1PST3988.M

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.50um Signal #2 Info : 30m x .32mm x .25um

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	Internal Standards						
1) I	1-bromo-2-nitrob	1.33	1.49	124.8E6	901.9E6	50.000	50.000
25) I	1-bromo-2-nitrob	1.33	1.49	124.8E6	901.9E6	50.000	50.000
31) I	1-bromo-2-nitrob	1.33	1.49	124.8E6	901.9E6	50.000	50.000
	System Monitoring Compounds						
2) SAB	Tetrachloro-m-xy	1.92	2.30	105.3E6	732.6E6	46.665	45.661
Spiked Amount	40.000	Range	30 - 150	Recovery	=	116.66%	114.15%
24) SA	Decachlorobiphen	9.23	10.68	136.1E6	519.0E6	44.369	46.037
Spiked Amount	40.000			Recovery	=	110.92%	115.09%
	Target Compounds						
26) L8	Toxaphene{A}	5.07	6.12	23030714	124.7E6	563.788	513.130m
27) L8	Toxaphene{B}	5.70	6.96	58437381	282.7E6	501.755	539.366
28) L8	Toxaphene{C}	5.87	7.12	32628867	473.3E6	520.175m	516.853
29) L8	Toxaphene{D}	6.20	7.56	36980687	294.9E6	516.700m	517.505
30) L8	Toxaphene{E}	6.85	8.44	40360721	279.0E6	489.524	512.161

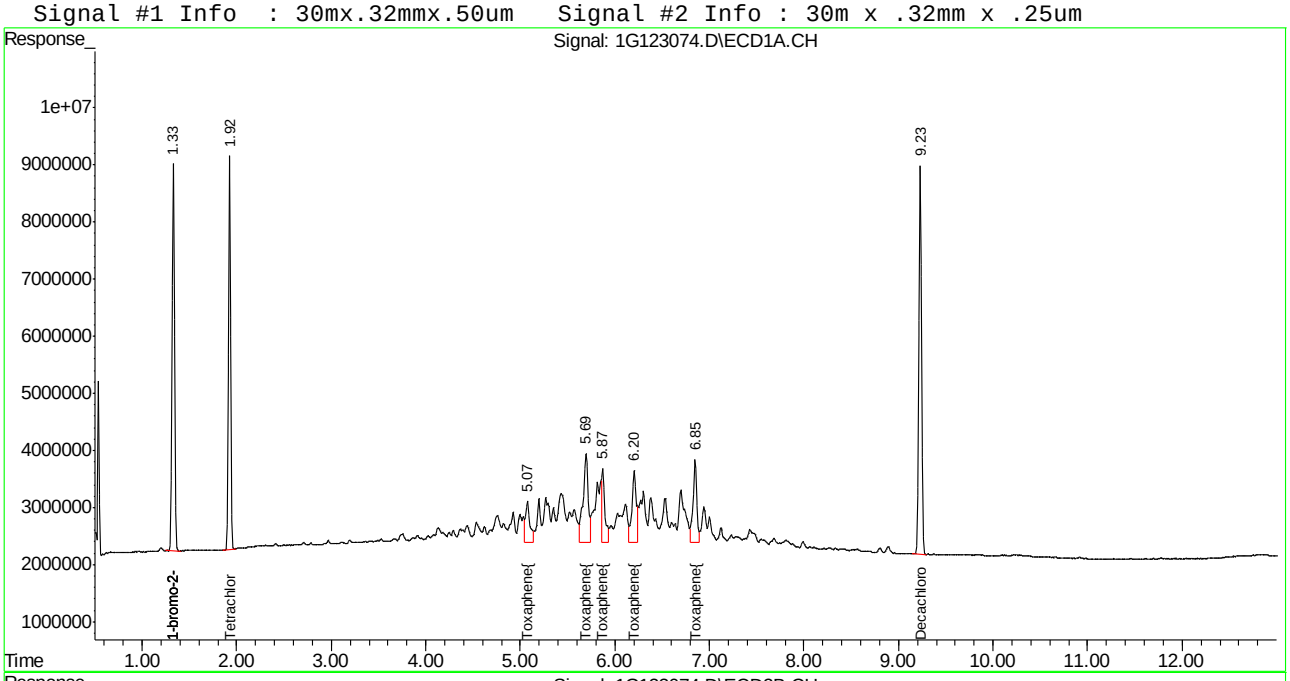
(f)=RT Delta > 1/2 Window (m)=manual int.

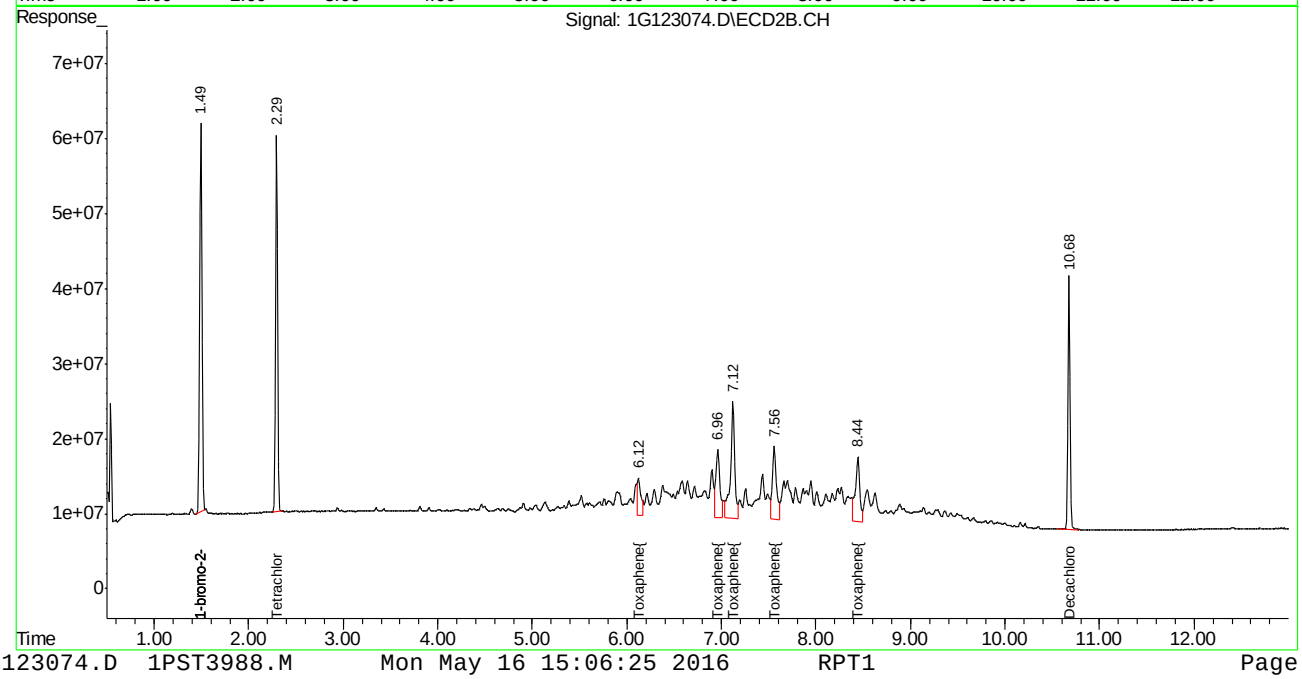
Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\1G3988\1G123074.D\ECD1A.CH Vial: 19
Signal #2 : C:\MSDCHEM\1\DATA\1G3988\1G123074.D\ECD2B.CH
Acq On : 5-16-16 01:58:48 PM Operator: thomasl
Sample : icv3988-500 Inst : GC1G
Misc : op93854,g1g3988,930,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: May 16 15:06 2016 Quant Results File: 1PST3988.RES

Quant Method : C:\MSDCHEM\1\METHODS\1PST3988.M (Chemstation Integrator)
Title : PEST/PCB
Last Update : Mon May 16 13:30:31 2016
Response via : Multiple Level Calibration
DataAcq Meth : 1PST3988.M

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.50um Signal #2 Info : 30m x .32mm x .25um





SGS ACCUTEST JC21347

Manual Integration Approval Summary

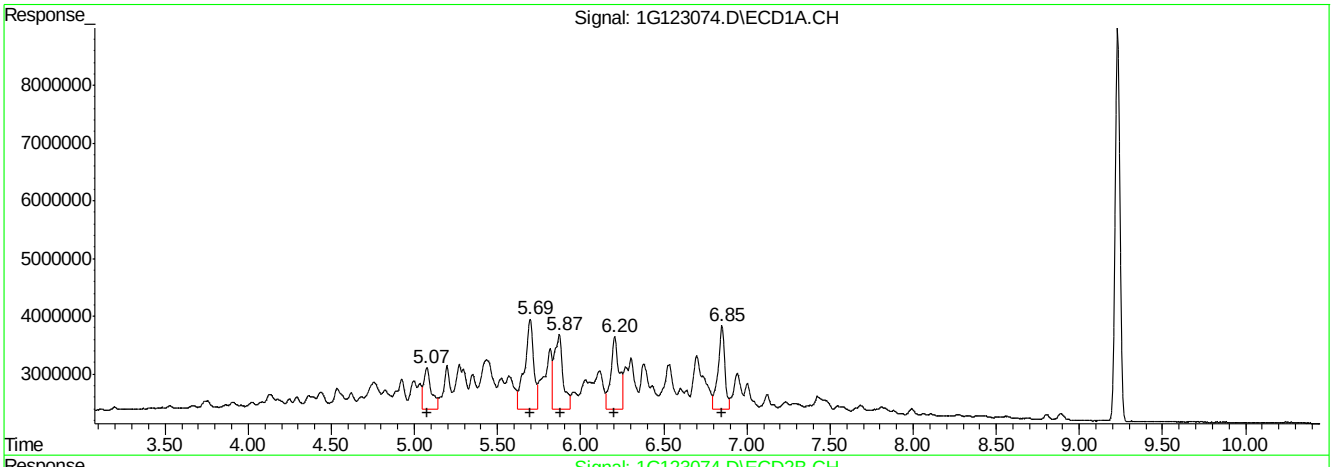
Sample Number:	G1G3988-ICV3988	**Method:**	SW846 8081B
Lab FileID:	1G123074.D	**Analyst approved:**	05/16/16 15:18 Dhara Saparia
Injection Time:	05/16/16 13:58	**Supervisor approved:**	05/16/16 17:43 Gwendolyn Burns

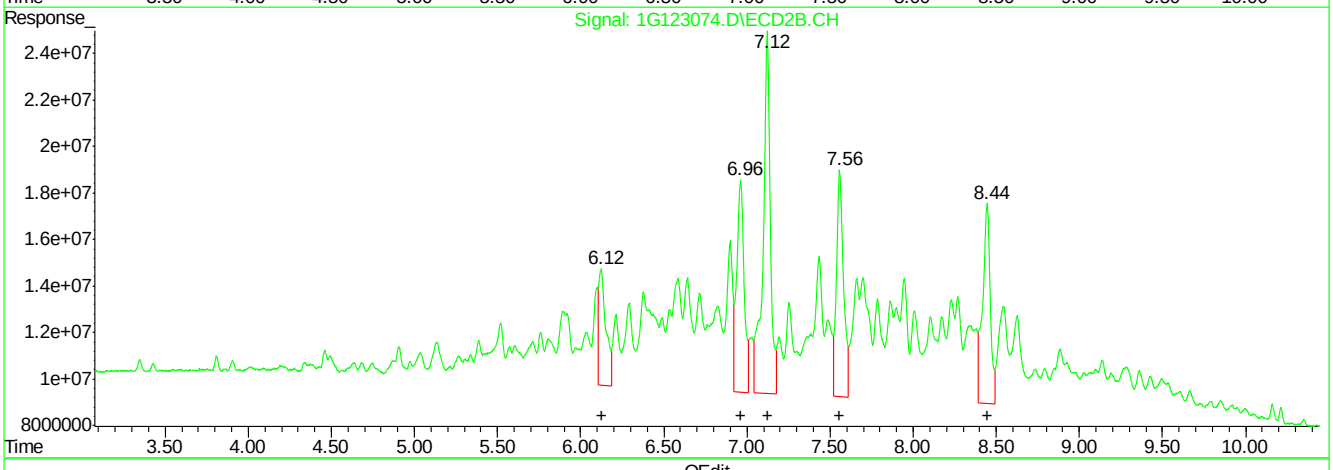
Parameter	CAS	Sig#	R.T. (min.)	Reason
Toxaphene-C		1	5.87	Poor instrument integration
Toxaphene-A		2	6.12	Poor instrument integration
Toxaphene-D		1	6.20	Poor instrument integration

Quantitation Report (Qedit)

Signal #1 : C:\MSDCHEM\1\DATA\1G3988\1G123074.D\ECD1A.CH Vial: 19
Signal #2 : C:\MSDCHEM\1\DATA\1G3988\1G123074.D\ECD2B.CH
Acq On : 5-16-16 01:58:48 PM Operator: thomasl
Sample : icv3988-500 Inst : GC1G
Misc : op93854,g1g3988,930,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: May 16 15:04 2016 Quant Results File: 1PST3988.RES

Method : C:\MSDCHEM\1\METHODS\1PST3988.M (Chemstation Integrator)
Title : PEST/PCB
Last Update : Mon May 16 13:30:31 2016
Response via : Multiple Level Calibration





QEdit

(26) Toxaphene{A} (L8)

R.T.	Response	Conc
5.07	23030714	563.79
5.70	58437381	501.76
5.87	46177996	736.18
6.20	43685039	610.37
6.85	40360721	489.52

(26) Toxaphene{A} #2 (L8)

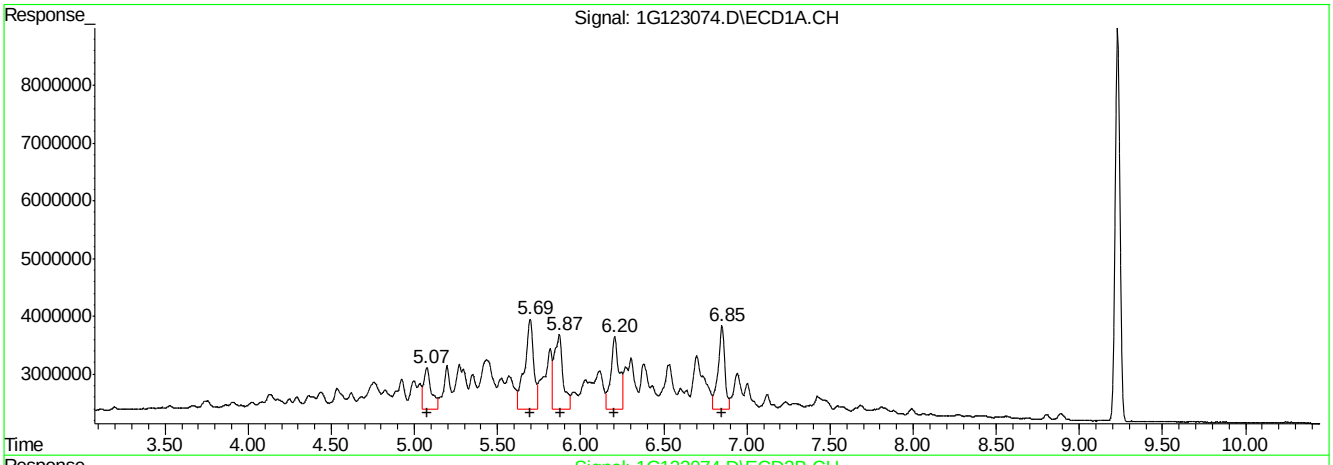
R.T.	Response	Conc
6.12	148449773	611.04
6.96	282709621	539.37
7.12	473281843	516.85
7.56	294865837	517.51
8.44	278967293	512.16

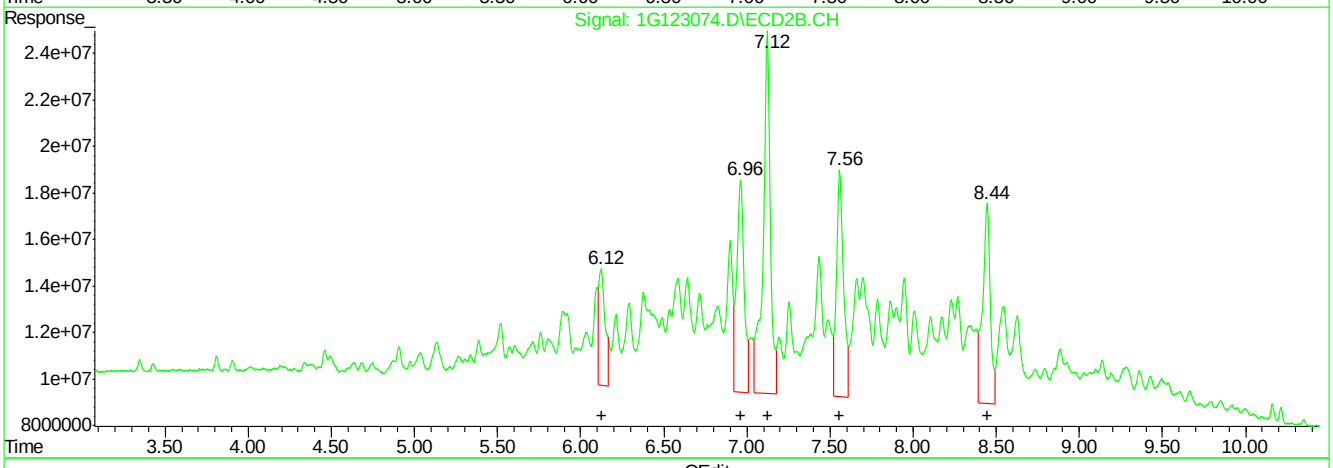
(+) = Expected Retention Time
1G123074.D 1PST3988.M Mon May 16 15:04:32 2016 RPT1

Quantitation Report (Qedit)

```
Signal #1 : C:\MSDCHEM\1\DATA\1G3988\1G123074.D\ECD1A.CH Vial: 19
Signal #2 : C:\MSDCHEM\1\DATA\1G3988\1G123074.D\ECD2B.CH
Acq On    : 5-16-16 01:58:48 PM                      Operator: thomasl
Sample    : icv3988-500                              Inst    : GC1G
Misc      : op93854,g1g3988,930,,,10,1               Multiplr: 1.00
IntFile Signal #1: autoint1.e     IntFile Signal #2: autoint2.e
Quant Time: May 16 15:04 2016  Quant Results File: 1PST3988.RES

Method       : C:\MSDCHEM\1\METHODS\1PST3988.M (Chemstation Integrator)
Title        : PEST/PCB
Last Update  : Mon May 16 13:30:31 2016
Response via : Multiple Level Calibration
```





QEdit

(26) Toxaphene{A} #2 (L8)

R.T.	Response	Conc
5.07	23030714	563.79
5.70	58437381	501.76
5.87	46177996	736.18
6.20	43685039	610.37
6.85	40360721	489.52

(26) Toxaphene{A} #2 (L8)

R.T.	Response	Conc
6.12	124663264	513.13
6.96	282709621	539.37
7.12	473281843	516.85
7.56	294865837	517.51
8.44	278967293	512.16

(+) = Expected Retention Time

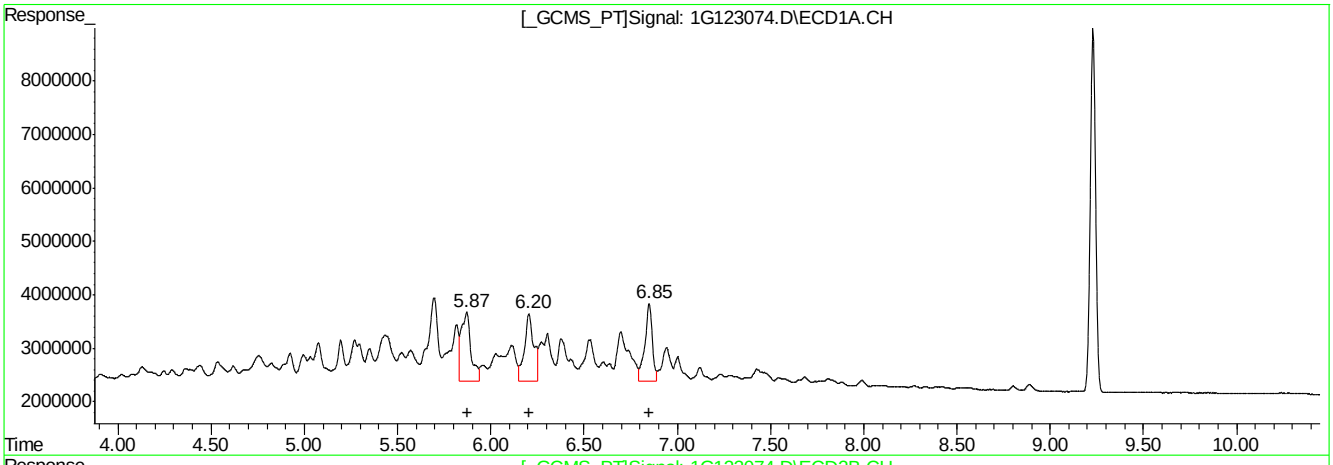
1G123074.D 1PST3988.M Mon May 16 15:05:02 2016 RPT1

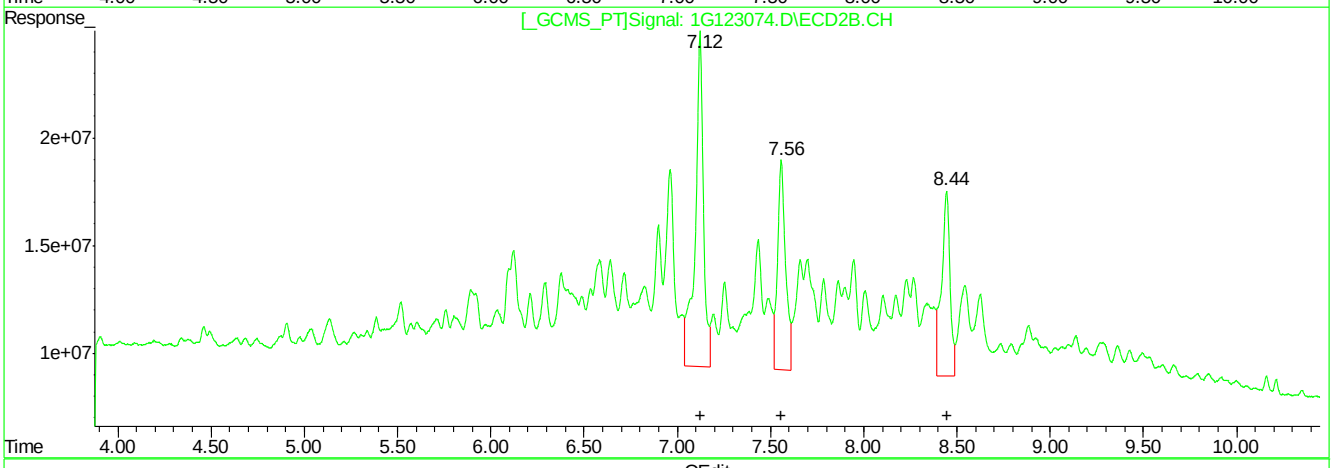
11.6.14.3 11

Quantitation Report (Qedit)

```
Signal #1 : C:\MSDCHEM\1\DATA\1G3988\1G123074.D\ECD1A.CH Vial: 19
Signal #2 : C:\MSDCHEM\1\DATA\1G3988\1G123074.D\ECD2B.CH
Acq On    : 5-16-16 01:58:48 PM                      Operator: thomasl
Sample    : icv3988-500                              Inst    : GC1G
Misc      : op93854,g1g3988,930,,,10,1               Multiplr: 1.00
IntFile Signal #1: autoint1.e     IntFile Signal #2: autoint2.e
Quant Time: May 16 15:04 2016  Quant Results File: 1PST3988.RES


Method       : C:\MSDCHEM\1\METHODS\1PST3988.M (Chemstation Integrator)
Title        : PEST/PCB
Last Update  : Mon May 16 13:30:31 2016
Response via : Multiple Level Calibration
```





QEdit

(28) Toxaphene{C} (L8)

R.T.	Response	Conc
5.87	46177996	736.18
6.20	43685039	610.37
6.85	40360721	489.52

(28) Toxaphene{C} #2 (L8)

R.T.	Response	Conc
7.12	473281843	516.85
7.56	294865837	517.51
8.44	278967293	512.16

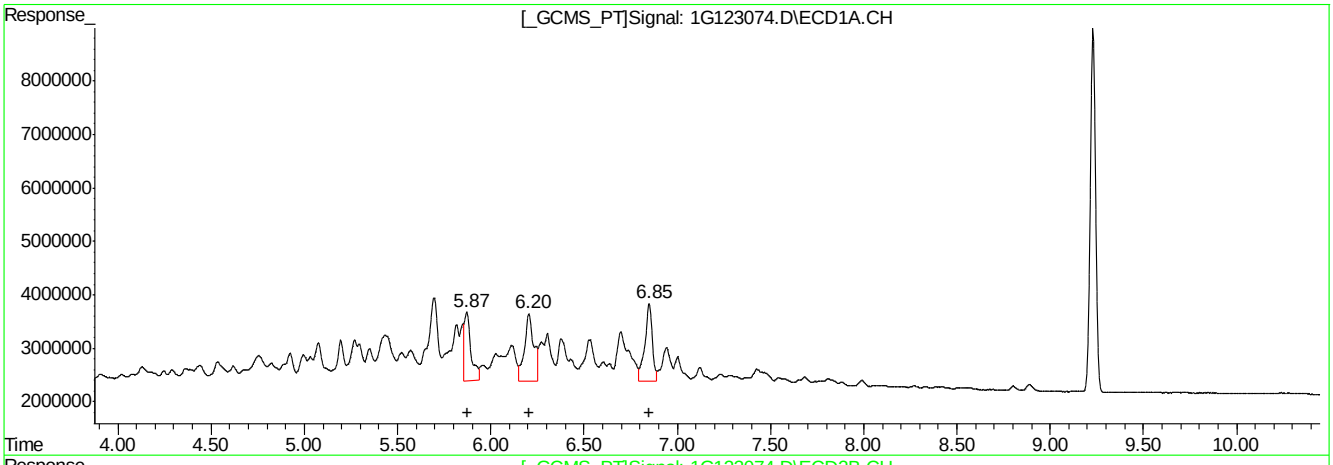
(+) = Expected Retention Time

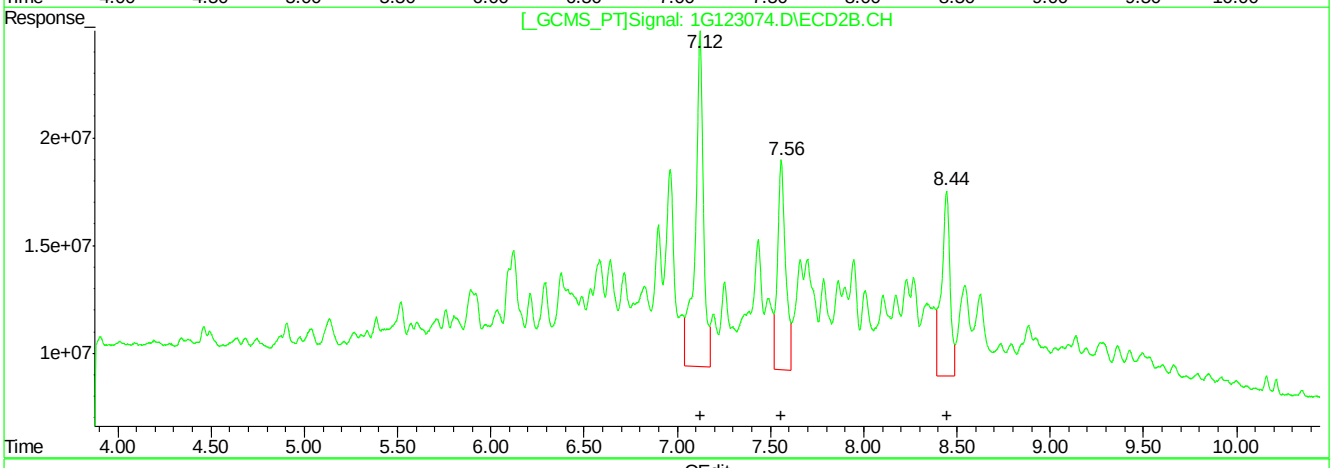
1G123074.D 1PST3988.M Mon May 16 15:05:12 2016 RPT1

Quantitation Report (Qedit)

Signal #1 : C:\MSDCHEM\1\DATA\1G3988\1G123074.D\ECD1A.CH Vial: 19
Signal #2 : C:\MSDCHEM\1\DATA\1G3988\1G123074.D\ECD2B.CH
Acq On : 5-16-16 01:58:48 PM Operator: thomasl
Sample : icv3988-500 Inst : GC1G
Misc : op93854,g1g3988,930,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: May 16 15:05 2016 Quant Results File: 1PST3988.RES

Method : C:\MSDCHEM\1\METHODS\1PST3988.M (Chemstation Integrator)
Title : PEST/PCB
Last Update : Mon May 16 13:30:31 2016
Response via : Multiple Level Calibration





QEdit

(28) Toxaphene{C} (L8)

R.T.	Response	Conc
5.87	32628867	520.18
6.20	43685039	610.37
6.85	40360721	489.52

(28) Toxaphene{C} #2 (L8)

R.T.	Response	Conc
7.12	473281843	516.85
7.56	294865837	517.51
8.44	278967293	512.16

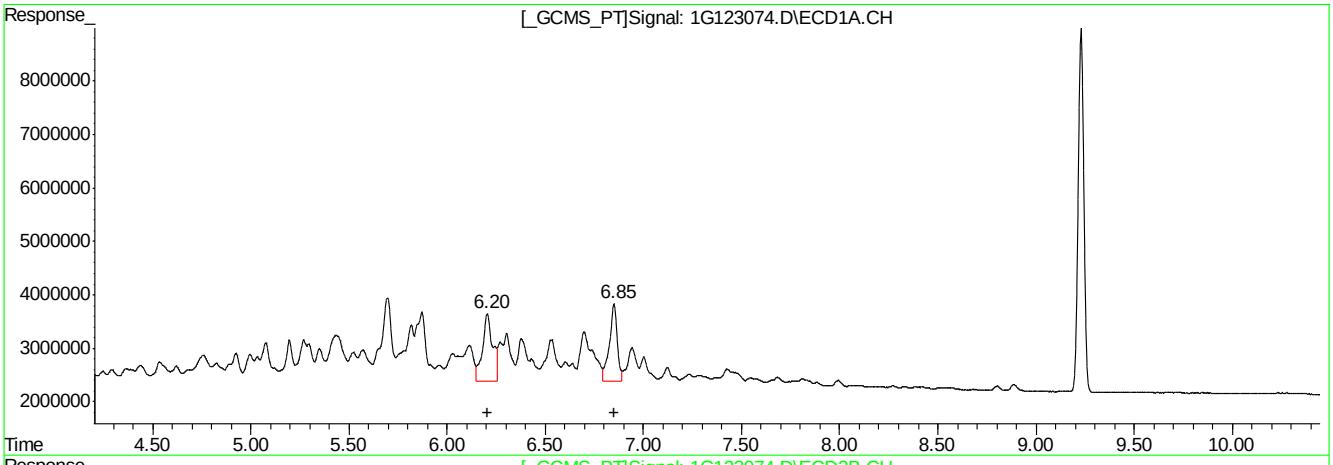
(+) = Expected Retention Time

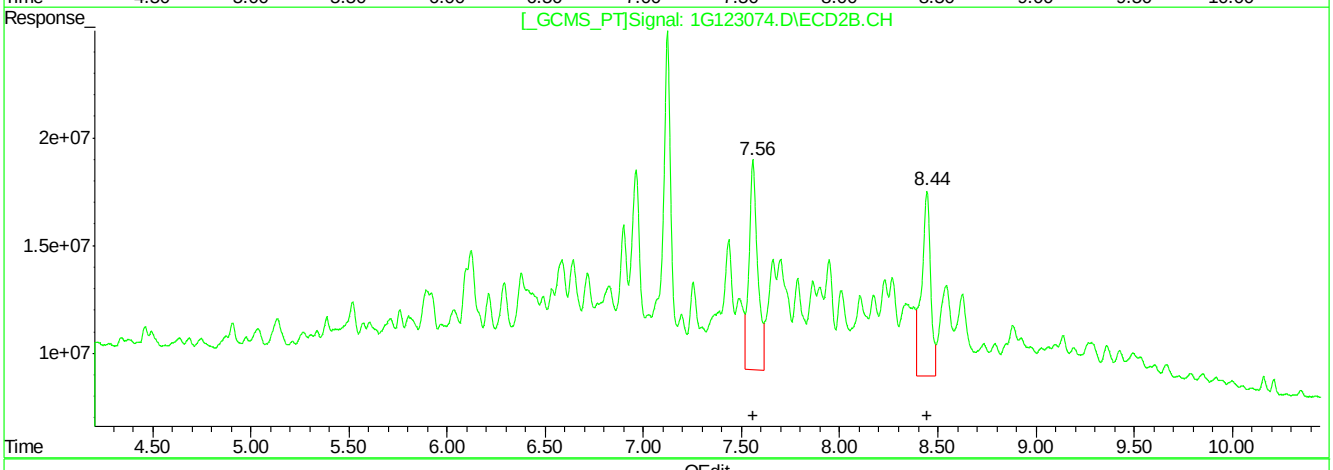
1G123074.D 1PST3988.M Mon May 16 15:05:57 2016 RPT1

Quantitation Report (Qedit)

Signal #1 : C:\MSDCHEM\1\DATA\1G3988\1G123074.D\ECD1A.CH Vial: 19
Signal #2 : C:\MSDCHEM\1\DATA\1G3988\1G123074.D\ECD2B.CH
Acq On : 5-16-16 01:58:48 PM Operator: thomasl
Sample : icv3988-500 Inst : GC1G
Misc : op93854,g1g3988,930,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: May 16 15:05 2016 Quant Results File: 1PST3988.RES

Method : C:\MSDCHEM\1\METHODS\1PST3988.M (Chemstation Integrator)
Title : PEST/PCB
Last Update : Mon May 16 13:30:31 2016
Response via : Multiple Level Calibration





QEdit

(29) Toxaphene{D} (L8)

R.T.	Response	Conc
6.20	43685039	610.37
6.85	40360721	489.52

(29) Toxaphene{D} #2 (L8)

R.T.	Response	Conc
7.56	294865837	517.51
8.44	278967293	512.16

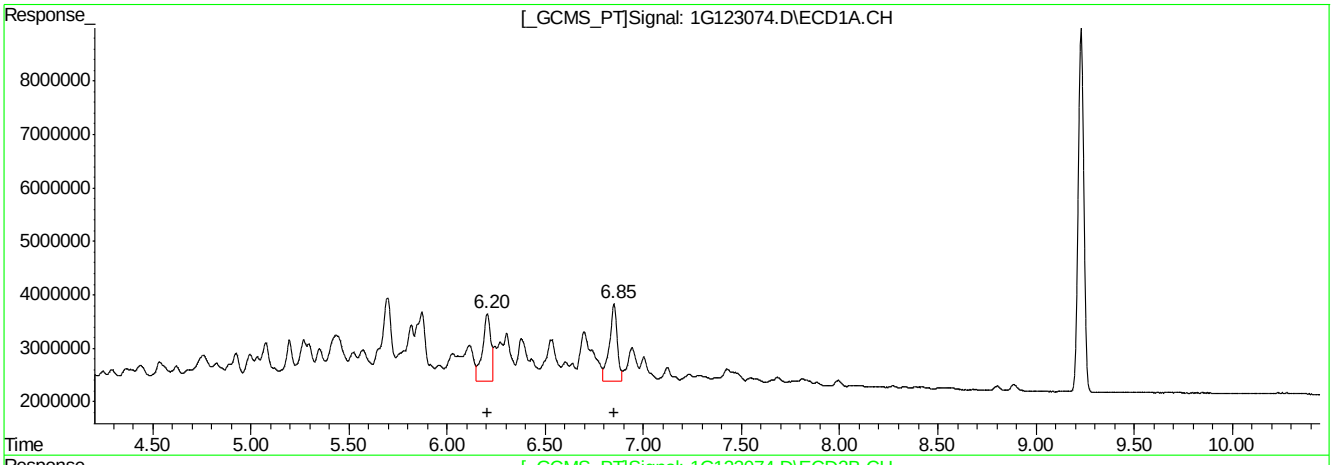
(+) = Expected Retention Time

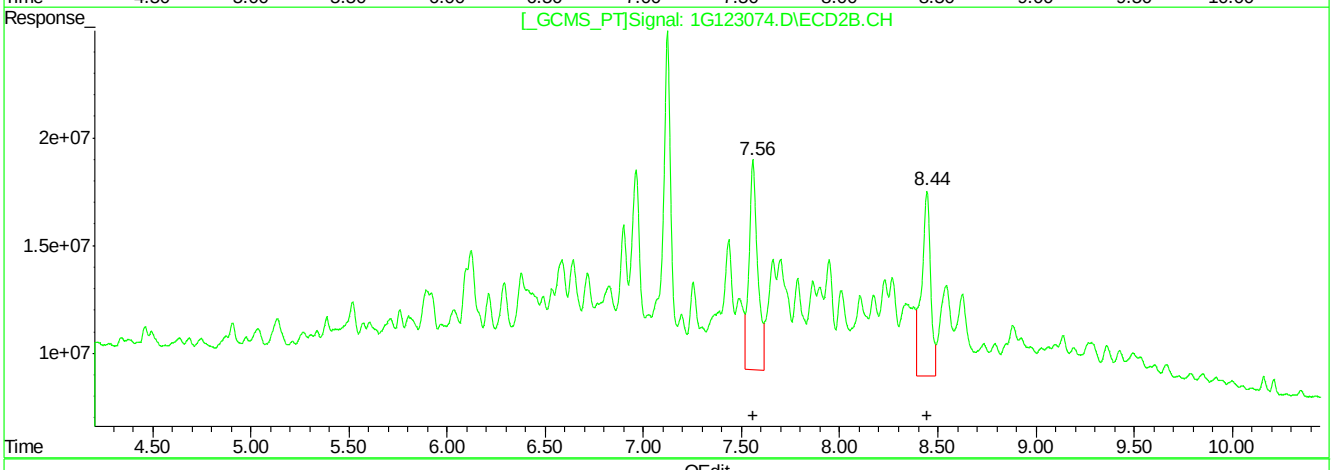
1G123074.D 1PST3988.M Mon May 16 15:06:01 2016 RPT1

Quantitation Report (Qedit)

```
Signal #1 : C:\MSDCHEM\1\DATA\1G3988\1G123074.D\ECD1A.CH Vial: 19
Signal #2 : C:\MSDCHEM\1\DATA\1G3988\1G123074.D\ECD2B.CH
Acq On    : 5-16-16 01:58:48 PM                      Operator: thomasl
Sample    : icv3988-500                              Inst    : GC1G
Misc      : op93854,g1g3988,930,,,10,1               Multiplr: 1.00
IntFile Signal #1: autoint1.e     IntFile Signal #2: autoint2.e
Quant Time: May 16 15:05 2016  Quant Results File: 1PST3988.RES

Method       : C:\MSDCHEM\1\METHODS\1PST3988.M (Chemstation Integrator)
Title        : PEST/PCB
Last Update  : Mon May 16 13:30:31 2016
Response via : Multiple Level Calibration
```





QEdit

(29) Toxaphene{D} #2 (L8)

R.T.	Response	Conc
6.20	36980687	516.70
6.85	40360721	489.52

(29) Toxaphene{D} #2 (L8)

R.T.	Response	Conc
7.56	294865837	517.51
8.44	278967293	512.16

(+) = Expected Retention Time

1G123074.D 1PST3988.M Mon May 16 15:06:12 2016 RPT1

11.6.14.7 11

Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\1G4003\1G123817.D\ECD1A.CH Vial: 4
Signal #2 : C:\MSDCHEM\1\DATA\1G4003\1G123817.D\ECD2B.CH
Acq On : 6-3-16 09:57:04 AM Operator: kristend
Sample : cc3988-50 Inst : GC1G
Misc : op94273,g1g4003,16.9,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: Jun 3 10:25 2016 Quant Results File: 1PST3988.RES

Quant Method : C:\MSDCHEM\1\METHODS\1PST3988.M (Chemstation Integrator)
Title : PEST/PCB
Last Update : Mon May 16 13:30:31 2016
Response via : Initial Calibration
DataAcq Meth : 1PST3988.M

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.50um Signal #2 Info : 30m x .32mm x .25um

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	Internal Standards						
1) I	1-bromo-2-nitrob	1.33	1.49	166.3E6	1113.7E6	50.000	50.000
25) I	1-bromo-2-nitrob	1.33	1.49	166.3E6	1113.7E6	50.000	50.000
31) I	1-bromo-2-nitrob	1.33	1.49	166.3E6	1113.7E6	50.000	50.000
	System Monitoring Compounds						
2) SAB	Tetrachloro-m-xy	1.92	2.29	146.3E6	867.1E6	48.671	43.763
Spiked Amount	40.000	Range	30 - 150	Recovery	=	121.68%	109.41%
24) SA	Decachlorobiphen	9.21	10.66	191.4E6	672.4E6	46.844	48.302
Spiked Amount	40.000			Recovery	=	117.11%	120.76%
	Target Compounds						
3) A	alpha-BHC	2.41	2.93	216.9E6	1359.3E6	50.442	45.824
4) MA	gamma-BHC	2.70	3.34	196.2E6	1209.1E6	48.835	45.030
5) MA	Heptachlor	3.19	3.89	200.9E6	1139.1E6	49.125	45.454
6) B	beta-BHC	2.78	3.42	84567695	514.0E6	43.986	41.752
7) B	delta-BHC	2.97	3.80	184.4E6	1145.1E6	46.818	42.661
8) MB	Aldrin	3.52	4.33	190.3E6	1081.7E6	51.054	47.168
9) B	Heptachlor Epoxi	4.23	5.12	174.2E6	975.8E6	47.423	47.566
10) B	gamma-Chlordane	4.39	5.40	174.7E6	993.5E6	46.215	47.405
11) B	alpha-Chlordane	4.56	5.62	176.1E6	956.7E6	46.966	46.102
12) A	Endosulfan I	4.74	5.71	174.0E6	918.5E6	48.227	47.986
13) B	4,4'-DDE	4.67	5.89	178.4E6	976.1E6	47.185	47.420
14) MA	Dieldrin	5.06	6.14	186.3E6	1033.3E6	49.607	48.085
15) MA	Endrin	5.38	6.63	178.3E6	963.9E6	52.362	50.967
16) A	4,4'-DDD	5.50	6.82	142.7E6	824.7E6	48.081	48.653
17) B	Endosulfan II	5.70	6.97	170.4E6	899.2E6	47.764	46.449
18) MA	4,4'-DDT	5.91	7.34	149.6E6	780.5E6	46.249	46.919
19) B	Endrin Aldehyde	6.33	7.54	131.7E6	701.3E6	46.728	47.211
20) B	Endosulfan Sulfa	7.02	8.00	152.9E6	773.3E6	44.627	45.653
21) A	Methoxychlor	6.69	8.58	86023919	415.4E6	44.914	46.505
22)	Mirex	6.81	8.87	142.9E6	646.4E6	43.849	45.675
23) B	Endrin Ketone	7.44	8.94	165.9E6	821.5E6	42.803	43.263

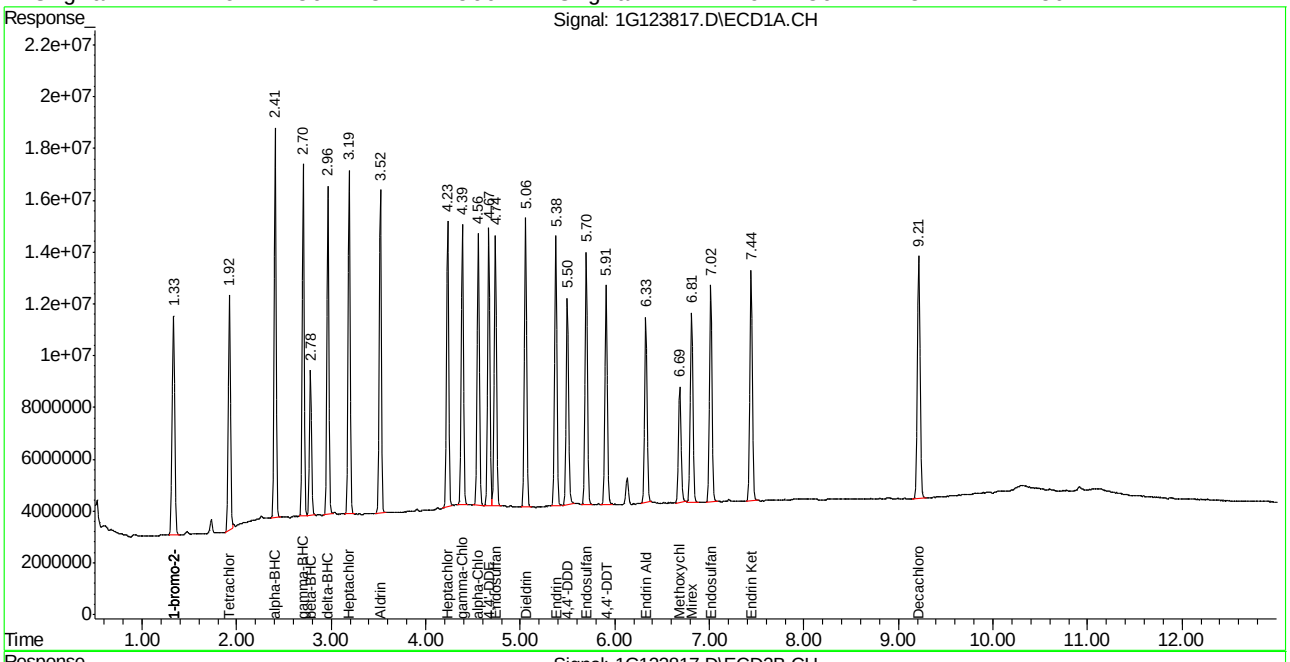
(f)=RT Delta > 1/2 Window (m)=manual int.
1G123817.D 1PST3988.M Fri Jun 03 10:25:33 2016 RPT1 Page 1

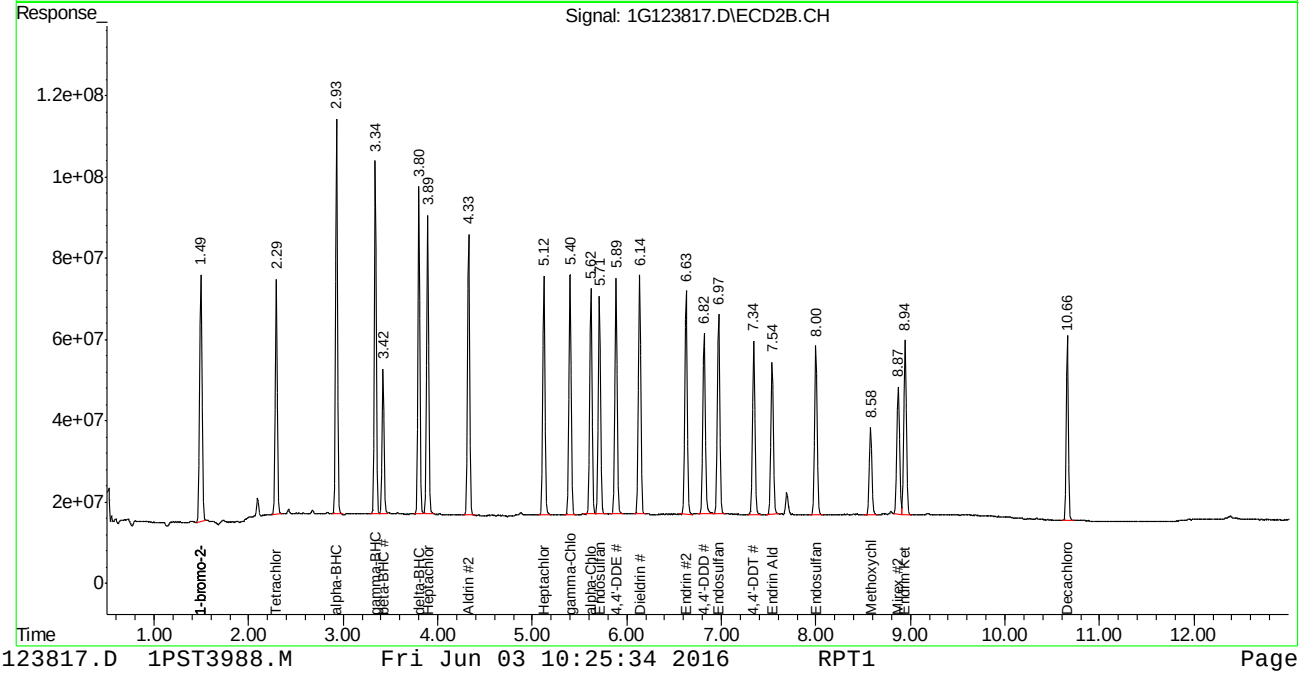
Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\1G4003\1G123817.D\ECD1A.CH Vial: 4
Signal #2 : C:\MSDCHEM\1\DATA\1G4003\1G123817.D\ECD2B.CH
Acq On : 6-3-16 09:57:04 AM Operator: kristend
Sample : cc3988-50 Inst : GC1G
Misc : op94273,g1g4003,16.9,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: Jun 3 10:25 2016 Quant Results File: 1PST3988.RES

Quant Method : C:\MSDCHEM\1\METHODS\1PST3988.M (Chemstation Integrator)
Title : PEST/PCB
Last Update : Mon May 16 13:30:31 2016
Response via : Multiple Level Calibration
DataAcq Meth : 1PST3988.M

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.50um Signal #2 Info : 30m x .32mm x .25um





SGS ACCUTEST JC21347

Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\1G4003\1G123839.D\ECD1A.CH Vial: 2
Signal #2 : C:\MSDCHEM\1\DATA\1G4003\1G123839.D\ECD2B.CH
Acq On : 6-3-16 05:45:48 PM Operator: dharas
Sample : cc3988-25 Inst : GC1G
Misc : op94273,g1g4003,16.4,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: Jun 3 17:59 2016 Quant Results File: 1PST3988.RES

Quant Method : C:\MSDCHEM\1\METHODS\1PST3988.M (Chemstation Integrator)
Title : PEST/PCB
Last Update : Thu Jun 02 13:15:36 2016
Response via : Initial Calibration
DataAcq Meth : 1PST3988.M

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.50um Signal #2 Info : 30m x .32mm x .25um

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	Internal Standards						
1) I	1-bromo-2-nitrob	1.33	1.49	162.3E6	1084.7E6	50.000	50.000
25) I	1-bromo-2-nitrob	1.33	1.49	162.3E6	1084.7E6	50.000	50.000
31) I	1-bromo-2-nitrob	1.33	1.49	162.3E6	1084.7E6	50.000	50.000
	System Monitoring Compounds						
2) SAB	Tetrachloro-m-xy	1.92	2.29	73897514	448.3E6	25.186	23.232
Spiked Amount	40.000	Range	30 - 150	Recovery	=	62.97%	58.08%
24) SA	Decachlorobiphen	9.21	10.66	92817469	280.8E6	23.269	20.716
Spiked Amount	40.000			Recovery	=	58.17%	51.79%
	Target Compounds						
3) A	alpha-BHC	2.41	2.93	107.8E6	704.2E6	25.678	24.376
4) MA	gamma-BHC	2.70	3.34	99187912	632.9E6	25.294	24.201
5) MA	Heptachlor	3.19	3.89	102.8E6	603.2E6	25.766	24.714
6) B	beta-BHC	2.78	3.42	45183633	281.0E6	24.077	23.437
7) B	delta-BHC	2.96	3.80	96619544	619.0E6	25.130	23.678
8) MB	Aldrin	3.52	4.33	95515639	566.2E6	26.256	25.349
9) B	Heptachlor Epoxi	4.23	5.12	88345947	501.8E6	24.641	25.115
10) B	gamma-Chlordane	4.39	5.40	88669024	513.1E6	24.030	25.138
11) B	alpha-Chlordane	4.56	5.62	89942272	497.4E6	24.576	24.610
12) A	Endosulfan I	4.74	5.71	87912758	473.6E6	24.969	25.405
13) B	4,4'-DDE	4.67	5.89	91235940	500.5E6	24.728	24.966
14) MA	Dieldrin	5.05	6.14	92977885	522.0E6	25.361	24.942
15) MA	Endrin	5.38	6.63	89131608	494.0E6	26.820	26.819
16) A	4,4'-DDD	5.50	6.82	74655803	438.5E6	25.762	26.561
17) B	Endosulfan II	5.70	6.97	87248600	461.0E6	25.052	24.449
18) MA	4,4'-DDT	5.91	7.34	72420785	374.2E6	22.942	23.097
19) B	Endrin Aldehyde	6.33	7.54	69183730	359.6E6	25.148	24.859
20) B	Endosulfan Sulfa	7.01	8.00	79870931	396.6E6	23.887	24.037
21) A	Methoxychlor	6.69	8.58	44238000	200.3E6	23.664	23.023
22)	Mirex	6.81	8.87	75306938	319.3E6	23.673	23.165
23) B	Endrin Ketone	7.44	8.95	89944204	426.7E6	23.773	23.075

(f)=RT Delta > 1/2 Window (m)=manual int.

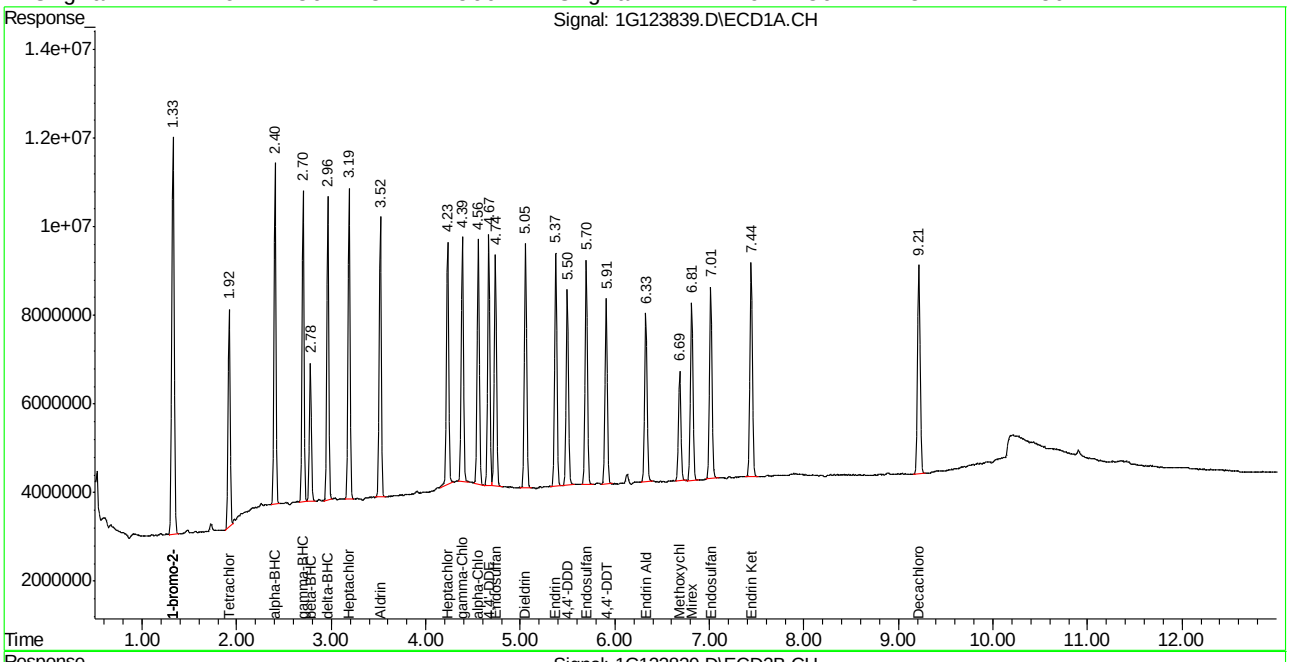
SGS ACCUTEST JC21347

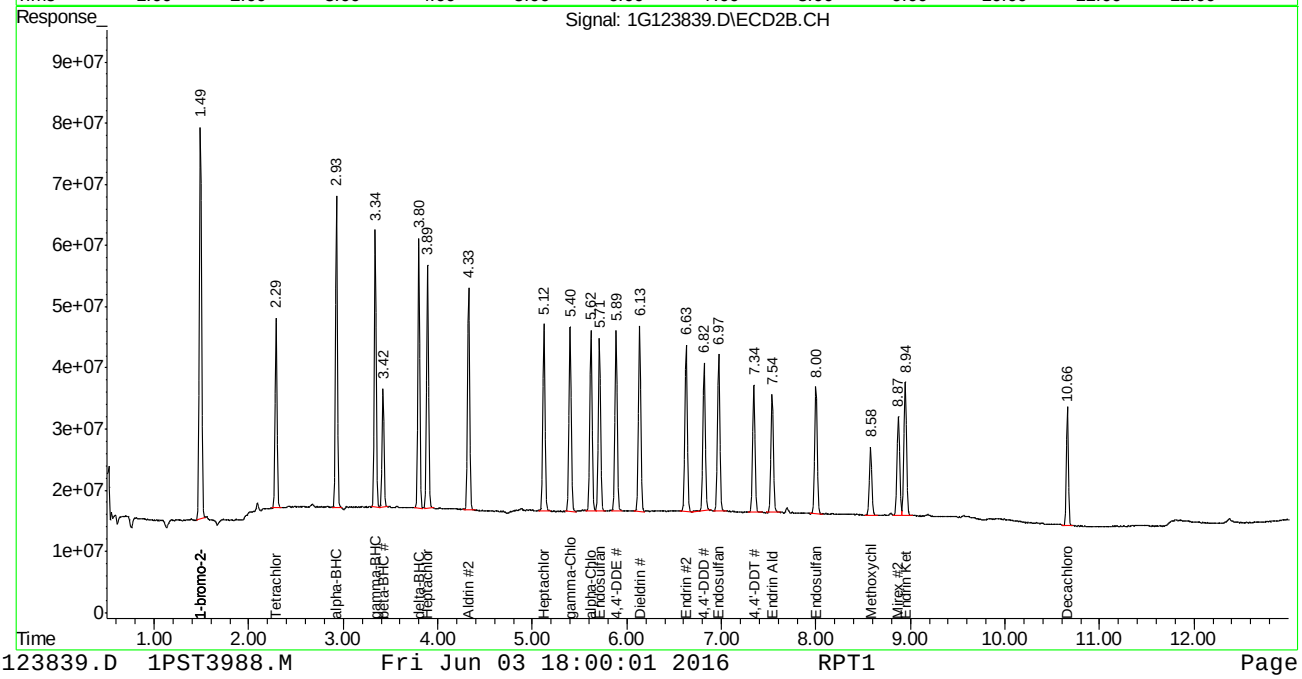
Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\1G4003\1G123839.D\ECD1A.CH Vial: 2
Signal #2 : C:\MSDCHEM\1\DATA\1G4003\1G123839.D\ECD2B.CH
Acq On : 6-3-16 05:45:48 PM Operator: dharas
Sample : cc3988-25 Inst : GC1G
Misc : op94273,g1g4003,16.4,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: Jun 3 17:59 2016 Quant Results File: 1PST3988.RES

Quant Method : C:\MSDCHEM\1\METHODS\1PST3988.M (Chemstation Integrator)
Title : PEST/PCB
Last Update : Thu Jun 02 13:15:36 2016
Response via : Multiple Level Calibration
DataAcq Meth : 1PST3988.M

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.50um Signal #2 Info : 30m x .32mm x .25um





SGS ACCUTEST JC21347

Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\1G4004\1G123903.D\ECD1A.CH Vial: 2
Signal #2 : C:\MSDCHEM\1\DATA\1G4004\1G123903.D\ECD2B.CH
Acq On : 07 Jun 2016 12:04 am Operator: dharas
Sample : cc3988-25 Inst : GC1G
Misc : op94247,g1g4004,100,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: Jun 7 11:49 2016 Quant Results File: 1PST3988.RES

Quant Method : C:\MSDCHEM\1\METHODS\1PST3988.M (Chemstation Integrator)
Title : PEST/PCB
Last Update : Thu Jun 02 13:15:36 2016
Response via : Initial Calibration
DataAcq Meth : 1PST3988.M

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.50um Signal #2 Info : 30m x .32mm x .25um

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	Internal Standards						
1) I	1-bromo-2-nitrob	1.32	1.49	164.1E6	1110.4E6	50.000	50.000
25) I	1-bromo-2-nitrob	1.32	1.49	164.1E6	1110.4E6	50.000	50.000
31) I	1-bromo-2-nitrob	1.32	1.49	164.1E6	1110.4E6	50.000	50.000
	System Monitoring Compounds						
2) SAB	Tetrachloro-m-xy	1.92	2.29	71551827	489.3E6	24.122	24.769
Spiked Amount	40.000	Range	30 - 150	Recovery	=	60.31%	61.92%
24) SA	Decachlorobiphen	9.22	10.66	100.7E6	411.0E6	24.971	29.615
Spiked Amount	40.000			Recovery	=	62.43%	74.04%
	Target Compounds						
3) A	alpha-BHC	2.40	2.93	102.3E6	732.5E6	24.110	24.767
4) MA	gamma-BHC	2.70	3.34	96082992	665.2E6	24.236	24.847
5) MA	Heptachlor	3.19	3.89	96942682	622.1E6	24.023	24.896
6) B	beta-BHC	2.78	3.42	43918369	297.0E6	23.149	24.199
7) B	delta-BHC	2.96	3.80	90003492	649.9E6	23.155	24.287
8) MB	Aldrin	3.52	4.32	93981222	627.4E6	25.554	27.442
9) B	Heptachlor Epoxi	4.23	5.12	91951767	579.2E6	25.368	28.316
10) B	gamma-Chlordane	4.39	5.40	91301074	584.6E6	24.474	27.980
11) B	alpha-Chlordane	4.55	5.62	91307734	569.9E6	24.678	27.543
12) A	Endosulfan I	4.74	5.71	89692684	547.9E6	25.198	28.715
13) B	4,4'-DDE	4.67	5.89	88836646	562.7E6	23.816	27.416
14) MA	Dieldrin	5.05	6.13	93381150	602.4E6	25.194	28.119
15) MA	Endrin	5.37	6.63	87568631	548.5E6	26.063	29.087
16) A	4,4'-DDD	5.50	6.82	70030848	484.5E6	23.904	28.668
17) B	Endosulfan II	5.70	6.97	85872400	521.8E6	24.389	27.038
18) MA	4,4'-DDT	5.91	7.34	69630020	428.4E6	21.818	25.834
19) B	Endrin Aldehyde	6.33	7.54	68728969	421.6E6	24.711	28.468
20) B	Endosulfan Sulfa	7.02	8.00	73514460	433.1E6	21.747	25.646
21) A	Methoxychlor	6.69	8.58	42139724	243.8E6	22.296	27.374
22)	Mirex	6.81	8.87	77314844	417.0E6	24.040	29.555
23) B	Endrin Ketone	7.44	8.94	82393321	479.7E6	21.541	25.337

(f)=RT Delta > 1/2 Window (m)=manual int.

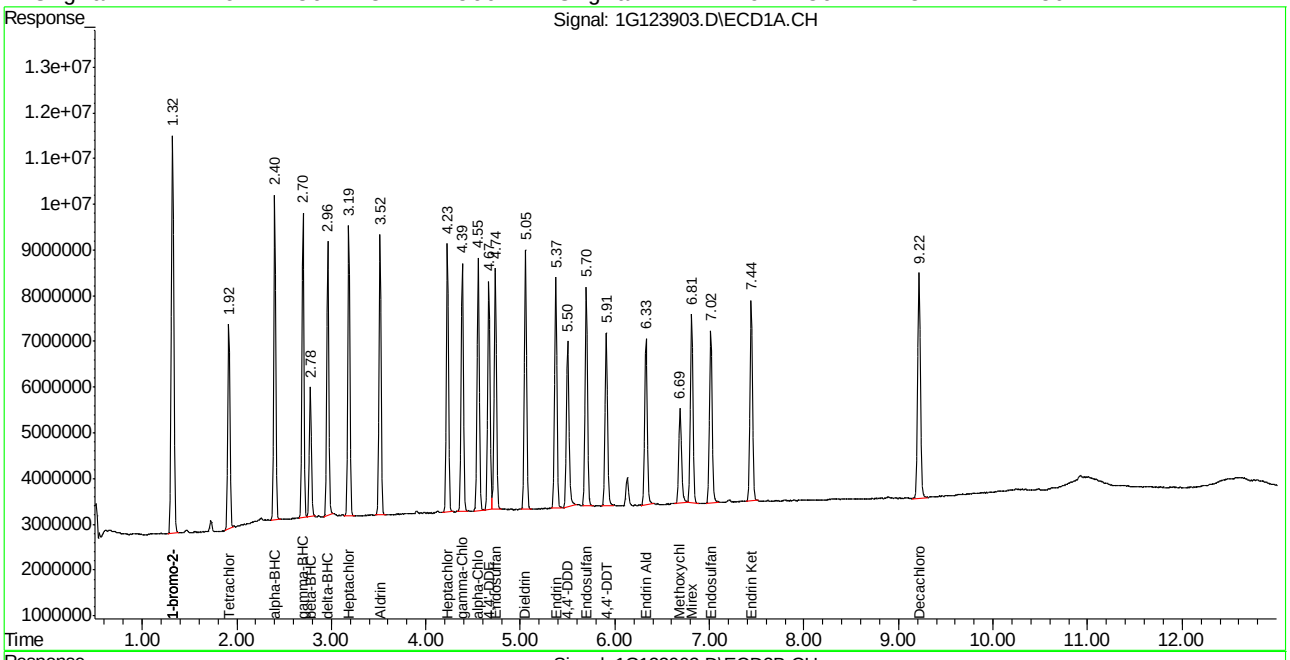
SGS ACCUTEST JC21347

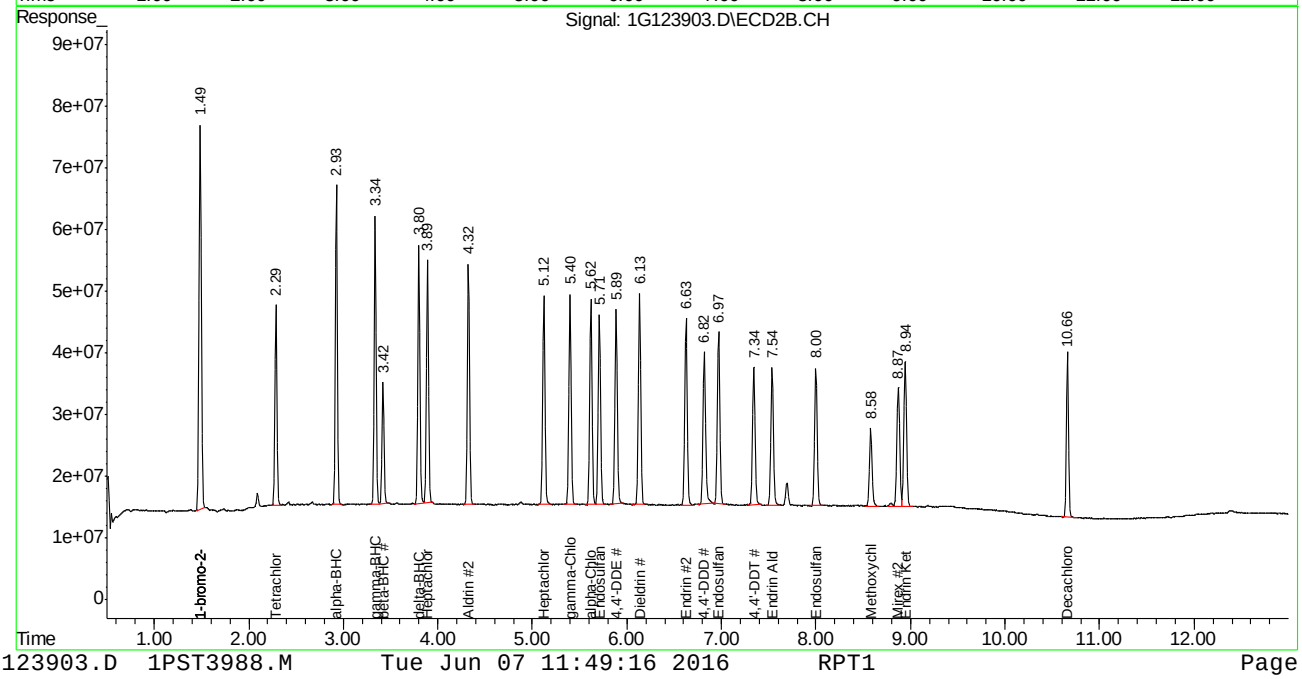
Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\1G4004\1G123903.D\ECD1A.CH Vial: 2
Signal #2 : C:\MSDCHEM\1\DATA\1G4004\1G123903.D\ECD2B.CH
Acq On : 07 Jun 2016 12:04 am Operator: dharas
Sample : cc3988-25 Inst : GC1G
Misc : op94247,g1g4004,100,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: Jun 7 11:49 2016 Quant Results File: 1PST3988.RES

Quant Method : C:\MSDCHEM\1\METHODS\1PST3988.M (Chemstation Integrator)
Title : PEST/PCB
Last Update : Thu Jun 02 13:15:36 2016
Response via : Multiple Level Calibration
DataAcq Meth : 1PST3988.M

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.50um Signal #2 Info : 30m x .32mm x .25um





SGS ACCUTEST JC21347

Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\1G4005\1G123934.D\ECD1A.CH Vial: 2
Signal #2 : C:\MSDCHEM\1\DATA\1G4005\1G123934.D\ECD2B.CH
Acq On : 07 Jun 2016 11:39 am Operator: kristend
Sample : cc3988-25 Inst : GC1G
Misc : op94430,g1g4005,15.7,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: Jun 7 12:13 2016 Quant Results File: 1PST3988.RES

Quant Method : C:\MSDCHEM\1\METHODS\1PST3988.M (Chemstation Integrator)
Title : PEST/PCB
Last Update : Thu Jun 02 13:15:36 2016
Response via : Initial Calibration
DataAcq Meth : 1PST3988.M

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.50um Signal #2 Info : 30m x .32mm x .25um

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	Internal Standards						
1) I	1-bromo-2-nitrob	1.33	1.49	156.6E6	1059.2E6	50.000	50.000
25) I	1-bromo-2-nitrob	1.33	1.49	156.6E6	1059.2E6	50.000	50.000
31) I	1-bromo-2-nitrob	1.33	1.49	156.6E6	1059.2E6	50.000	50.000
	System Monitoring Compounds						
2) SAB	Tetrachloro-m-xy	1.92	2.29	64905446	436.2E6	22.930	23.150
Spiked Amount	40.000 Range	30 - 150	Recovery	=		57.33%	57.88%
24) SA	Decachlorobiphen	9.22	10.66	90446123	301.5E6	23.503	22.776
Spiked Amount	40.000		Recovery	=		58.76%	56.94%
	Target Compounds						
3) A	alpha-BHC	2.41	2.93	91965708	636.6E6	22.717	22.566
4) MA	gamma-BHC	2.70	3.34	85604323	566.0E6	22.628	22.164
5) MA	Heptachlor	3.19	3.89	87506704	514.3E6	22.724	21.578
6) B	beta-BHC	2.78	3.42	38767480	250.1E6	21.413	21.367
7) B	delta-BHC	2.97	3.80	81762228	533.2E6	22.043	20.886
8) MB	Aldrin	3.52	4.32	78068168	475.8E6	22.244	21.818
9) B	Heptachlor Epoxi	4.23	5.12	75743824	443.2E6	21.899	22.714
10) B	gamma-Chlordane	4.39	5.40	76517607	443.2E6	21.495	22.237
11) B	alpha-Chlordane	4.56	5.62	77285576	441.3E6	21.889	22.361
12) A	Endosulfan I	4.74	5.71	76017501	429.8E6	22.379	23.609
13) B	4,4'-DDE	4.67	5.89	77724762	447.0E6	21.836	22.831
14) MA	Dieldrin	5.06	6.13	80754440	467.3E6	22.832	22.863
15) MA	Endrin	5.38	6.62	76864471	447.5E6	23.974	24.882
16) A	4,4'-DDD	5.50	6.82	63249993	394.2E6	22.624	24.454
17) B	Endosulfan II	5.70	6.97	76672016	423.0E6	22.820	22.974
18) MA	4,4'-DDT	5.91	7.34	64288676	355.0E6	21.110	22.439
19) B	Endrin Aldehyde	6.33	7.54	61033526	341.1E6	22.996	24.145
20) B	Endosulfan Sulfa	7.02	8.00	71605116	378.0E6	22.198	23.462
21) A	Methoxychlor	6.69	8.58	39500746	194.8E6	21.902	22.931
22)	Mirex	6.82	8.87	66767507	310.0E6	21.756	23.027
23) B	Endrin Ketone	7.45	8.94	80775752	409.0E6	22.130	22.647

(f)=RT Delta > 1/2 Window (m)=manual int.

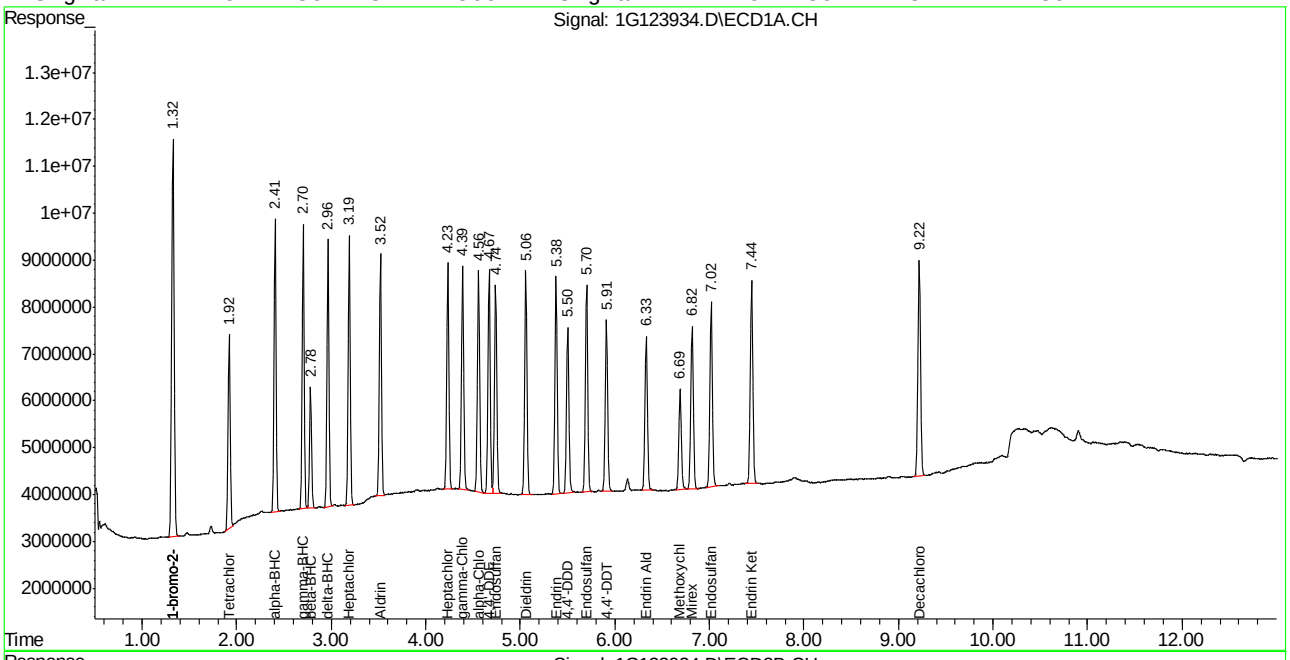
SGS ACCUTEST JC21347

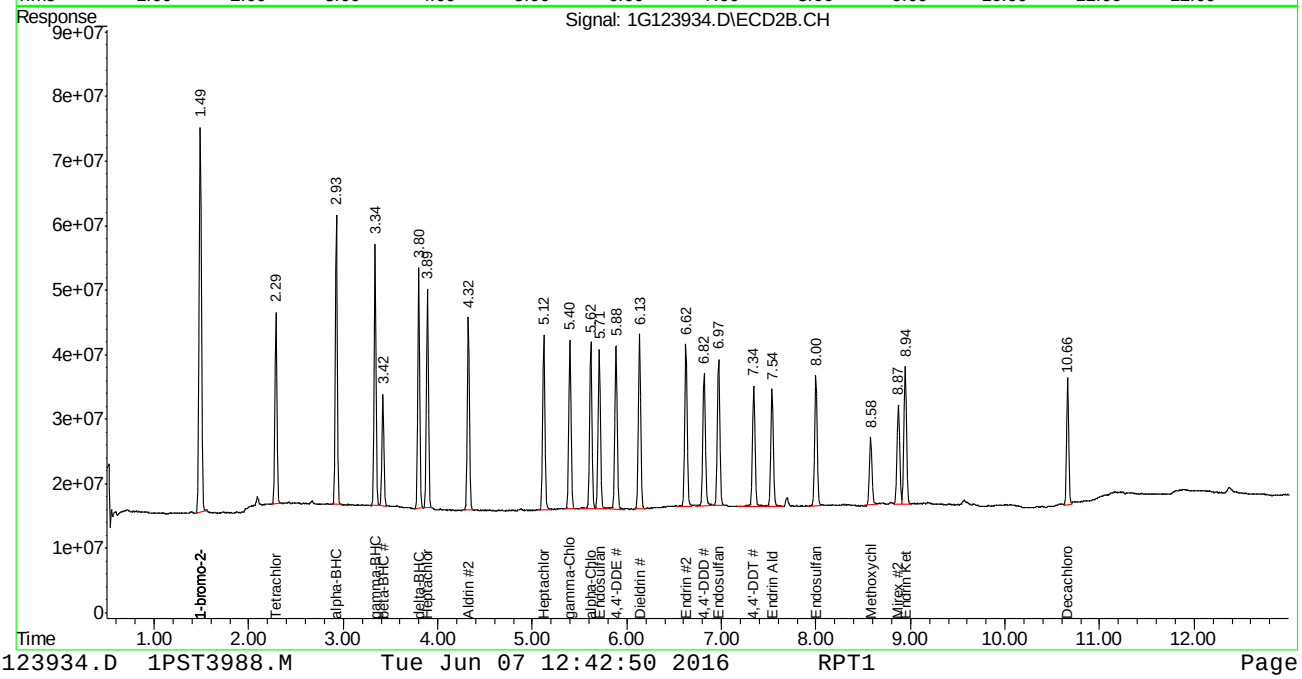
Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\1G4005\1G123934.D\ECD1A.CH Vial: 2
Signal #2 : C:\MSDCHEM\1\DATA\1G4005\1G123934.D\ECD2B.CH
Acq On : 07 Jun 2016 11:39 am Operator: kristend
Sample : cc3988-25 Inst : GC1G
Misc : op94430,g1g4005,15.7,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: Jun 7 12:13 2016 Quant Results File: 1PST3988.RES

Quant Method : C:\MSDCHEM\1\METHODS\1PST3988.M (Chemstation Integrator)
Title : PEST/PCB
Last Update : Thu Jun 02 13:15:36 2016
Response via : Multiple Level Calibration
DataAcq Meth : 1PST3988.M

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.50um Signal #2 Info : 30m x .32mm x .25um





SGS ACCUTEST JC21347

Manual Integrations APPROVED (compounds with "m" flag)
Gwendolyn Burns 06/15/16 09:22

Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\1G4005\1G123969.D\ECD1A.CH Vial: 4
Signal #2 : C:\MSDCHEM\1\DATA\1G4005\1G123969.D\ECD2B.CH
Acq On : 6-8-16 01:53:29 AM Operator: dharas
Sample : cc3988-50 Inst : GC1G
Misc : op94510,g1g4005,500,,,5,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: Jun 8 8:45 2016 Quant Results File: 1PST3988.RES

Quant Method : C:\MSDCHEM\1\METHODS\1PST3988.M (Chemstation Integrator)
Title : PEST/PCB
Last Update : Wed Jun 08 08:45:23 2016
Response via : Initial Calibration
DataAcq Meth : 1PST3988.M

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.50um Signal #2 Info : 30m x .32mm x .25um

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	Internal Standards						
1) I	1-bromo-2-nitrob	1.35	1.51	173.3E6	1183.1E6	50.000	50.000
25) I	1-bromo-2-nitrob	1.35	1.51	173.3E6	1183.1E6	50.000	50.000
31) I	1-bromo-2-nitrob	1.35	1.51	173.3E6	1183.1E6	50.000	50.000
	System Monitoring Compounds						
2) SAB	Tetrachloro-m-xy	1.94	2.30	153.7E6	991.0E6	49.075	47.087
Spiked Amount	40.000 Range	30 - 150	Recovery	=		122.69%	117.72%
24) SA	Decachlorobiphen	9.21	10.66	193.1E6	650.1E6	45.347	43.966m
Spiked Amount	40.000		Recovery	=		113.37%	109.92%
	Target Compounds						
3) A	alpha-BHC	2.42	2.94	228.7E6	1521.2E6	51.059	48.275
4) MA	gamma-BHC	2.71	3.34	212.3E6	1363.9E6	50.717	47.819
5) MA	Heptachlor	3.20	3.90	213.6E6	1303.0E6	50.115	48.945
6) B	beta-BHC	2.79	3.43	91570419	590.9E6	45.707	45.185
7) B	delta-BHC	2.97	3.80	204.6E6	1375.0E6	49.838	48.222
8) MB	Aldrin	3.52	4.33	203.9E6	1275.9E6	52.495	52.376
9) B	Heptachlor Epoxi	4.23	5.12	193.5E6	1147.7E6	50.566	52.665
10) B	gamma-Chlordane	4.39	5.40	194.7E6	1166.9E6	49.437	52.416
11) B	alpha-Chlordane	4.56	5.62	192.1E6	1130.0E6	49.155	51.259
12) A	Endosulfan I	4.74	5.71	187.6E6	1079.5E6	49.908	53.095
13) B	4,4'-DDE	4.67	5.89	185.6E6	1123.1E6	47.119	51.363
14) MA	Dieldrin	5.06	6.13	197.6E6	1177.7E6	50.486	51.592
15) MA	Endrin	5.38	6.63	173.6E6	1008.9E6	48.937	50.216
16) A	4,4'-DDD	5.50	6.82	146.4E6	956.4E6	47.326	53.117
17) B	Endosulfan II	5.70	6.97	178.2E6	1033.5E6	47.935	50.260
18) MA	4,4'-DDT	5.91	7.34	148.3E6	859.4E6	44.007	48.633
19) B	Endrin Aldehyde	6.33	7.53	146.8E6	844.1E6	49.979	53.495
20) B	Endosulfan Sulfa	7.01	8.00	164.9E6	910.4E6	46.201	50.595
21) A	Methoxychlor	6.69	8.58	85752329	456.4E6	42.966	48.096
22)	Mirex	6.81	8.87	153.2E6	744.2E6	45.100	49.502
23) B	Endrin Ketone	7.44	8.94	201.1E6	1049.3E6	49.787	52.018

(f)=RT Delta > 1/2 Window (m)=manual int.

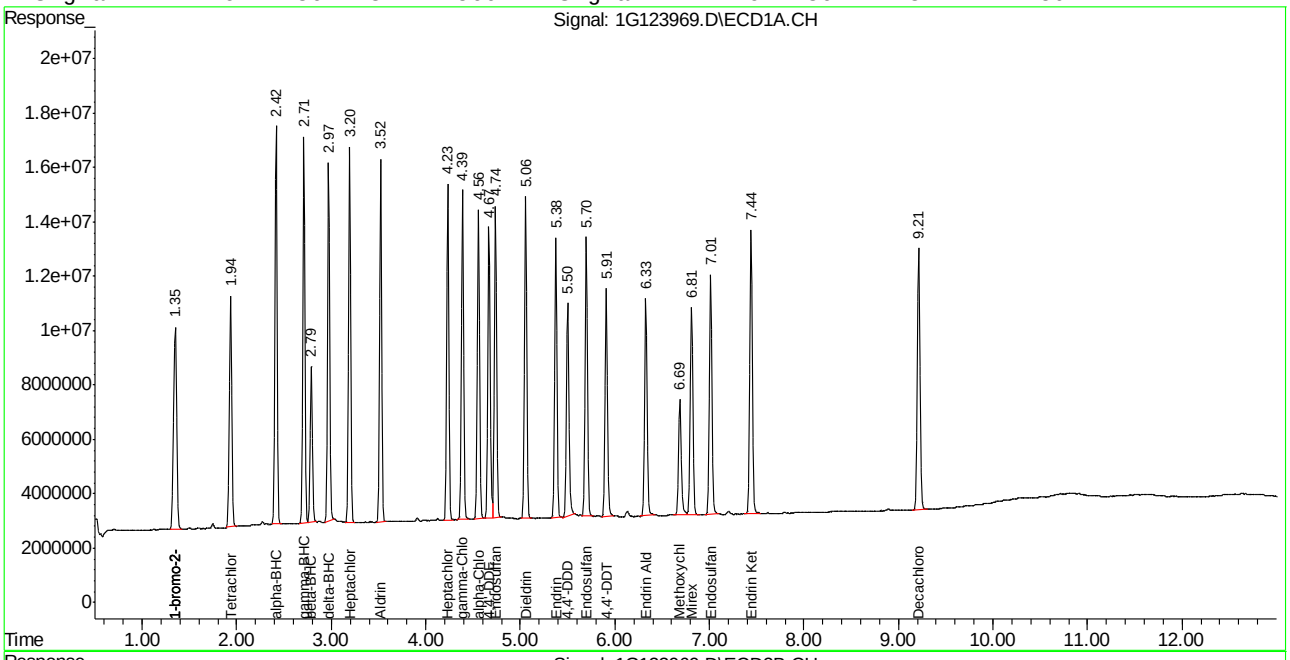
SGS ACCUTEST JC21347

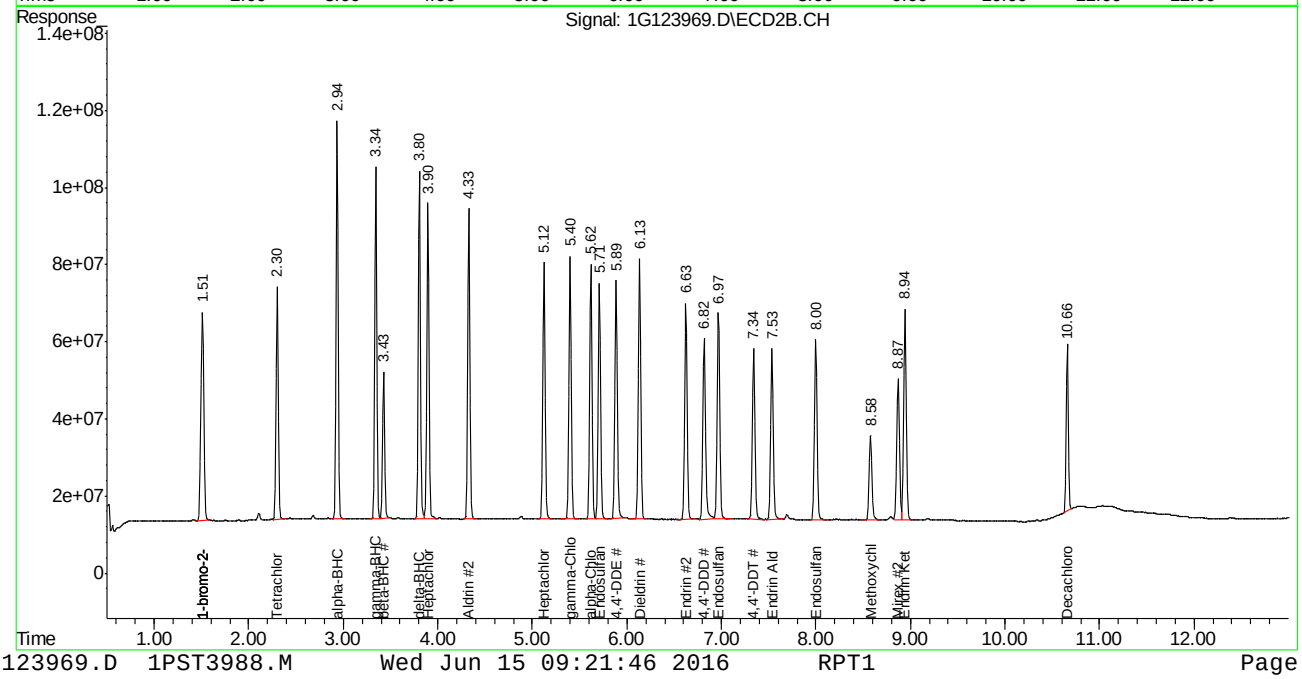
Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\1G4005\1G123969.D\ECD1A.CH Vial: 4
Signal #2 : C:\MSDCHEM\1\DATA\1G4005\1G123969.D\ECD2B.CH
Acq On : 6-8-16 01:53:29 AM Operator: dharas
Sample : cc3988-50 Inst : GC1G
Misc : op94510,g1g4005,500,,,5,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: Jun 8 8:45 2016 Quant Results File: 1PST3988.RES

Quant Method : C:\MSDCHEM\1\METHODS\1PST3988.M (Chemstation Integrator)
Title : PEST/PCB
Last Update : Wed Jun 08 08:45:23 2016
Response via : Multiple Level Calibration
DataAcq Meth : 1PST3988.M

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.50um Signal #2 Info : 30m x .32mm x .25um





SGS ACCUTEST JC21347

11.6.19 11

Manual Integration Approval Summary

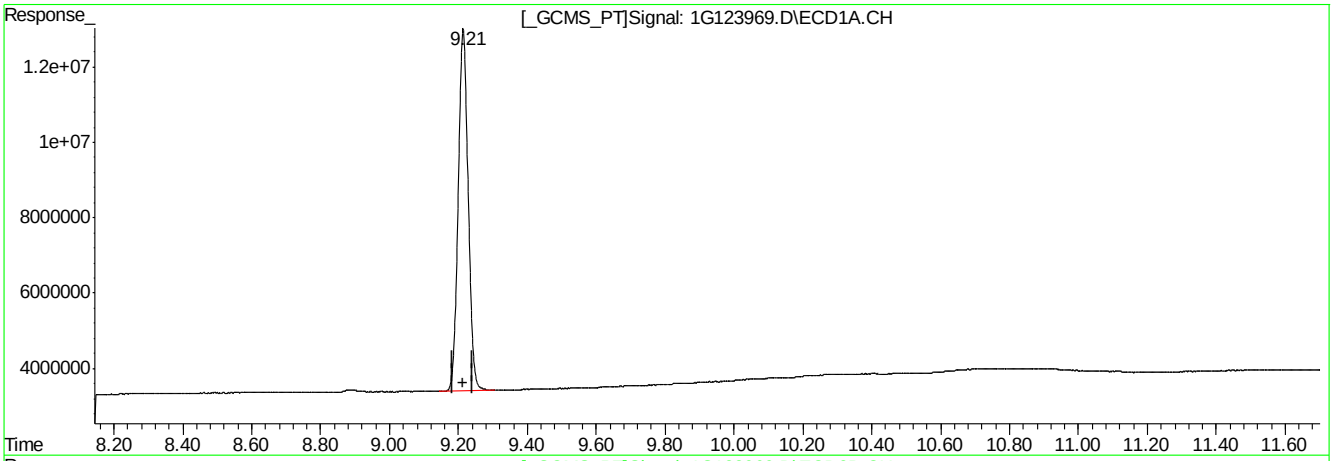
Sample Number:	G1G4005-CC3988	**Method:**	SW846 8081B
Lab FileID:	1G123969.D	**Analyst approved:**	06/08/16 11:21 Dhara Saparia
Injection Time:	06/08/16 01:53	**Supervisor approved:**	06/15/16 09:22 Gwendolyn Burns

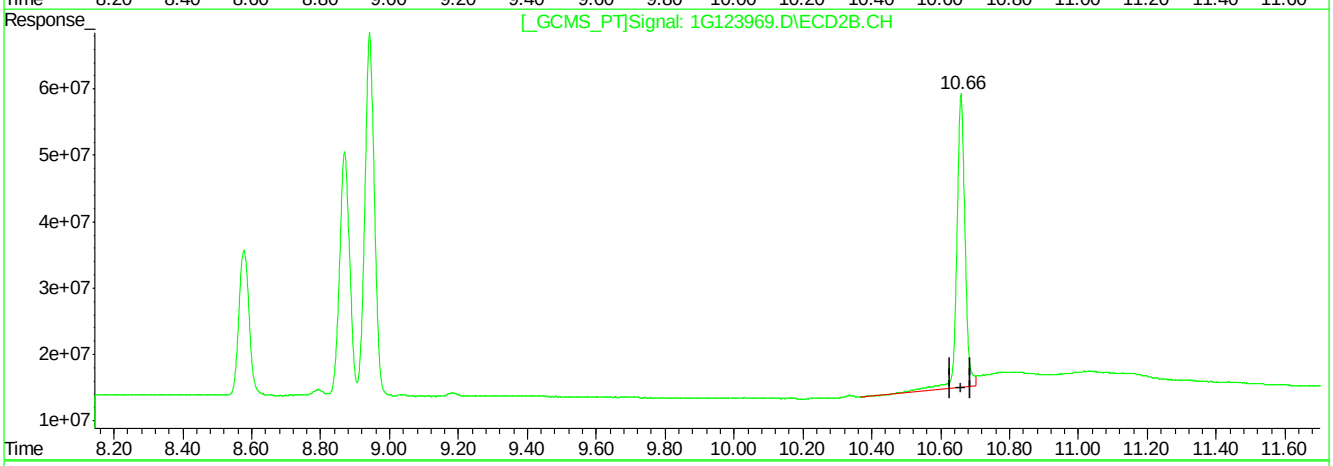
Parameter	CAS	Sig#	R.T. (min.)	Reason
Decachlorobiphenyl	2051-24-3	2	10.66	Poor instrument integration

Quantitation Report (Qedit)

```
Signal #1 : C:\MSDCHEM\1\DATA\1G4005\1G123969.D\ECD1A.CH Vial: 4
Signal #2 : C:\MSDCHEM\1\DATA\1G4005\1G123969.D\ECD2B.CH
Acq On    : 6-8-16 01:53:29 AM                      Operator: dharas
Sample    : cc3988-50                               Inst    : GC1G
Misc      : op94510,g1g4005,500,,,5,1               Multiplr: 1.00
IntFile Signal #1: autoint1.e     IntFile Signal #2: autoint2.e
Quant Time: Jun  8  8:45 2016  Quant Results File: 1PST3988.RES

Method       : C:\MSDCHEM\1\METHODS\1PST3988.M (Chemstation Integrator)
Title        : PEST/PCB
Last Update  : Wed Jun 08 08:45:23 2016
Response via : Multiple Level Calibration
```





QEdit

(24) Decachlorobiphenyl (SA)

9.21min 45.347PPB

response 193112993

(24) Decachlorobiphenyl #2 (SA)

10.66min 50.486PPB

response 746504534

(+) = Expected Retention Time

1G123969.D 1PST3988.M Wed Jun 08 08:45:43 2016 RPT1

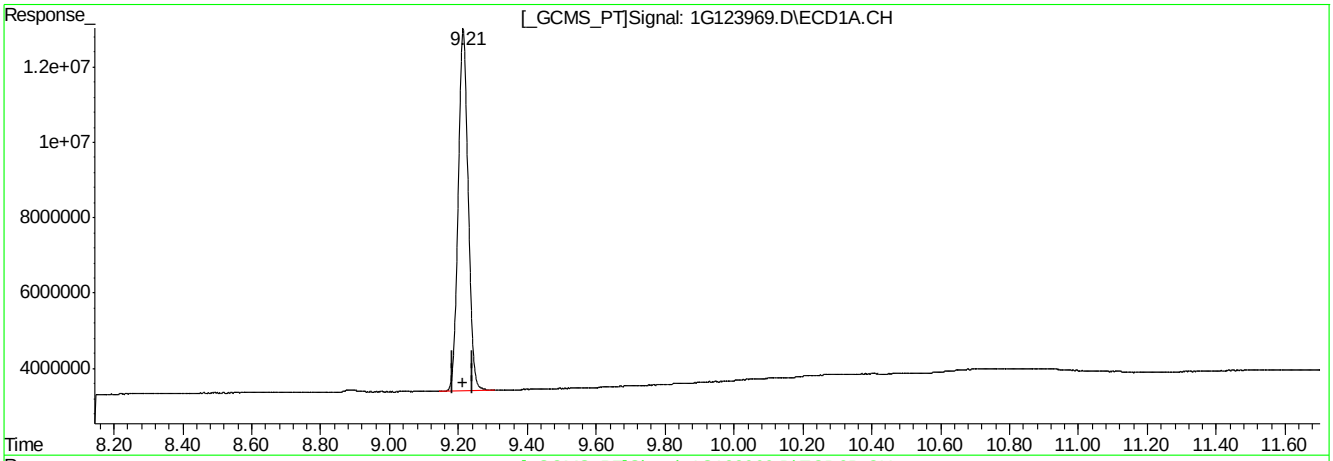
11.6.19.2

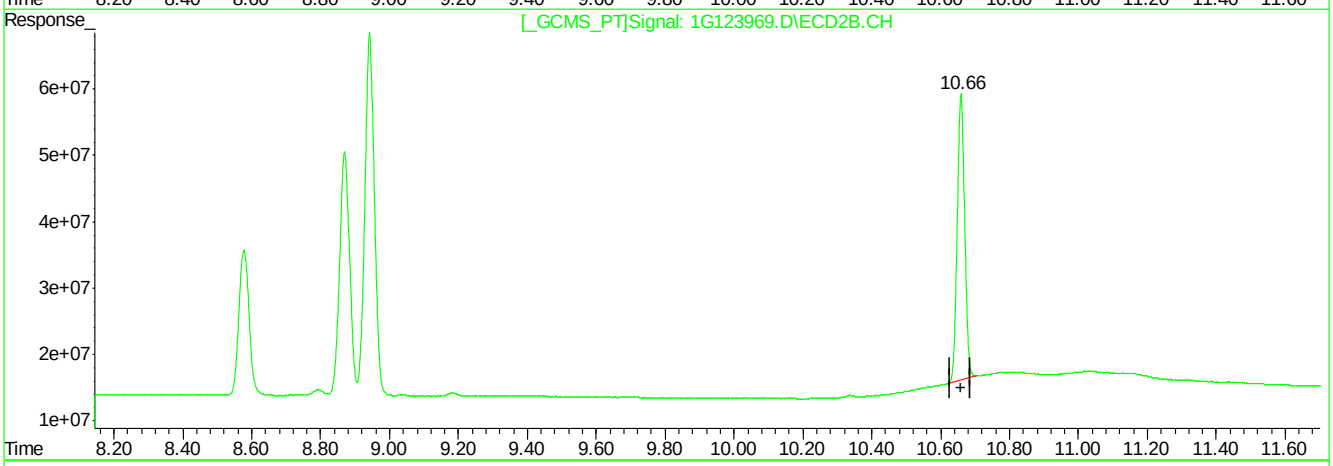
11

Quantitation Report (Qedit)

```
Signal #1 : C:\MSDCHEM\1\DATA\1G4005\1G123969.D\ECD1A.CH Vial: 4
Signal #2 : C:\MSDCHEM\1\DATA\1G4005\1G123969.D\ECD2B.CH
Acq On    : 6-8-16 01:53:29 AM                      Operator: dharas
Sample    : cc3988-50                               Inst    : GC1G
Misc      : op94510,g1g4005,500,,,5,1               Multiplr: 1.00
IntFile Signal #1: autoint1.e     IntFile Signal #2: autoint2.e
Quant Time: Jun  8  8:45 2016  Quant Results File: 1PST3988.RES

Method       : C:\MSDCHEM\1\METHODS\1PST3988.M (Chemstation Integrator)
Title        : PEST/PCB
Last Update  : Wed Jun 08 08:45:23 2016
Response via : Multiple Level Calibration
```





QEdit

(24) Decachlorobiphenyl (SA)

9.21min 45.347PPB

response 193112993

(24) Decachlorobiphenyl #2 (SA)

10.66min 43.966PPB m

response 650102757

(+) = Expected Retention Time

1G123969.D 1PST3988.M Wed Jun 08 08:45:50 2016 RPT1

11.6.19.3

11

Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\1G4006\1G123994.D\ECD1A.CH Vial: 2
Signal #2 : C:\MSDCHEM\1\DATA\1G4006\1G123994.D\ECD2B.CH
Acq On : 6-8-16 09:34:37 AM Operator: dharas
Sample : cc3988-25 Inst : GC1G
Misc : op94442,g1g4006,16.0,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: Jun 8 9:48 2016 Quant Results File: 1PST3988.RES

Quant Method : C:\MSDCHEM\1\METHODS\1PST3988.M (Chemstation Integrator)
Title : PEST/PCB
Last Update : Wed Jun 08 08:45:23 2016
Response via : Initial Calibration
DataAcq Meth : 1PST3988.M

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.50um Signal #2 Info : 30m x .32mm x .25um

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	Internal Standards						
1) I	1-bromo-2-nitrob	1.33	1.49	148.7E6	1014.7E6	50.000	50.000
25) I	1-bromo-2-nitrob	1.33	1.49	148.7E6	1014.7E6	50.000	50.000
31) I	1-bromo-2-nitrob	1.33	1.49	148.7E6	1014.7E6	50.000	50.000
	System Monitoring Compounds						
2) SAB	Tetrachloro-m-xy	1.92	2.29	65242400	449.8E6	24.279	24.921
Spiked Amount	40.000	Range	30 - 150	Recovery	=	60.70%	62.30%
24) SA	Decachlorobiphen	9.21	10.66	86991309	312.6E6	23.811	24.648
Spiked Amount	40.000			Recovery	=	59.53%	61.62%
	Target Compounds						
3) A	alpha-BHC	2.40	2.93	91475444	637.1E6	23.801	23.574
4) MA	gamma-BHC	2.70	3.34	81383806	557.9E6	22.660	22.804
5) MA	Heptachlor	3.19	3.89	84877367	505.9E6	23.218	22.158
6) B	beta-BHC	2.78	3.42	36904392	255.1E6	21.472	22.742
7) B	delta-BHC	2.96	3.80	76243387	514.4E6	21.652	21.036
8) MB	Aldrin	3.52	4.32	79916001	467.1E6	23.986	22.356
9) B	Heptachlor Epoxi	4.23	5.12	72879077	427.1E6	22.195	22.848
10) B	gamma-Chlordane	4.38	5.40	74082952	436.0E6	21.921	22.834
11) B	alpha-Chlordane	4.55	5.62	75730611	433.1E6	22.593	22.907
12) A	Endosulfan I	4.73	5.71	74874592	415.8E6	23.219	23.844
13) B	4,4'-DDE	4.66	5.88	75774056	427.1E6	22.424	22.774
14) MA	Dieldrin	5.05	6.13	78892308	450.1E6	23.496	22.989
15) MA	Endrin	5.37	6.62	75520282	429.7E6	24.812	24.939
16) A	4,4'-DDD	5.50	6.82	60588316	390.7E6	22.828	25.299
17) B	Endosulfan II	5.69	6.97	74126440	408.3E6	23.240	23.150
18) MA	4,4'-DDT	5.91	7.34	59835500	332.8E6	20.696	21.956
19) B	Endrin Aldehyde	6.33	7.53	58613679	337.6E6	23.263	24.947
20) B	Endosulfan Sulfa	7.01	8.00	68680706	361.8E6	22.427	23.440
21) A	Methoxychlor	6.69	8.58	37926542	182.7E6	22.151	22.451
22)	Mirex	6.81	8.87	65289940	305.3E6	22.409	23.674
23) B	Endrin Ketone	7.44	8.94	77721324	401.9E6	22.429	23.232

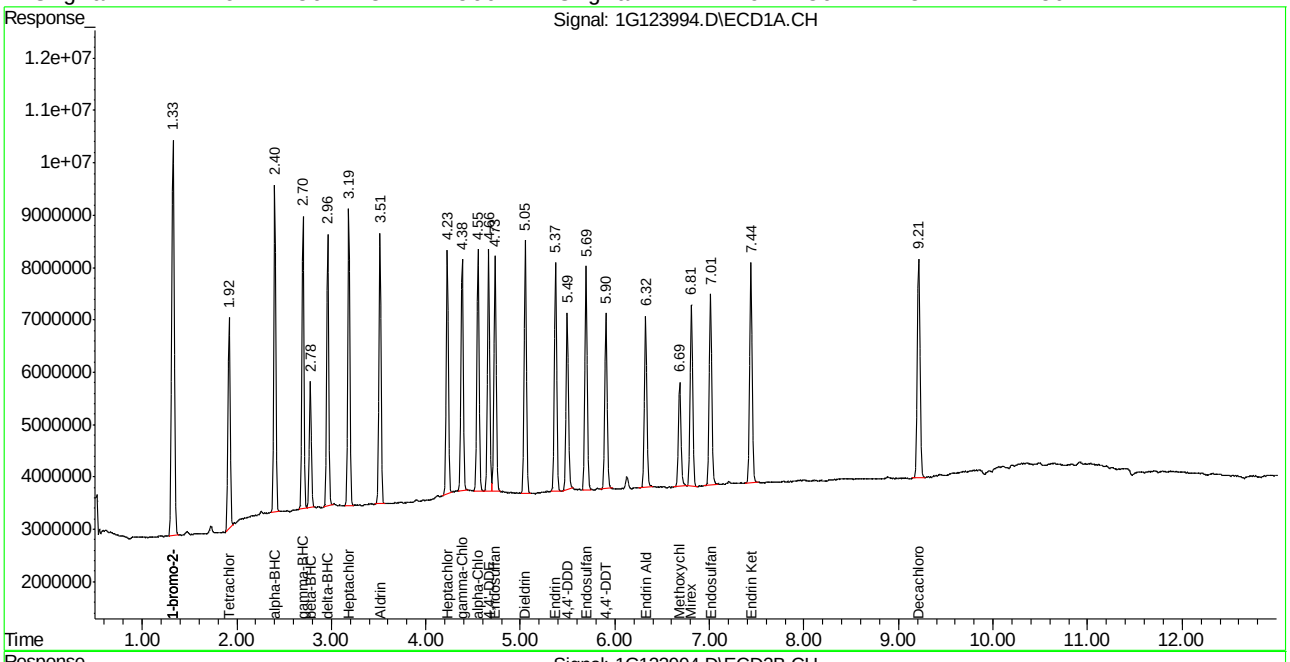
(f)=RT Delta > 1/2 Window (m)=manual int.
1G123994.D 1PST3988.M Fri Jun 10 12:33:02 2016 RPT1 Page 1

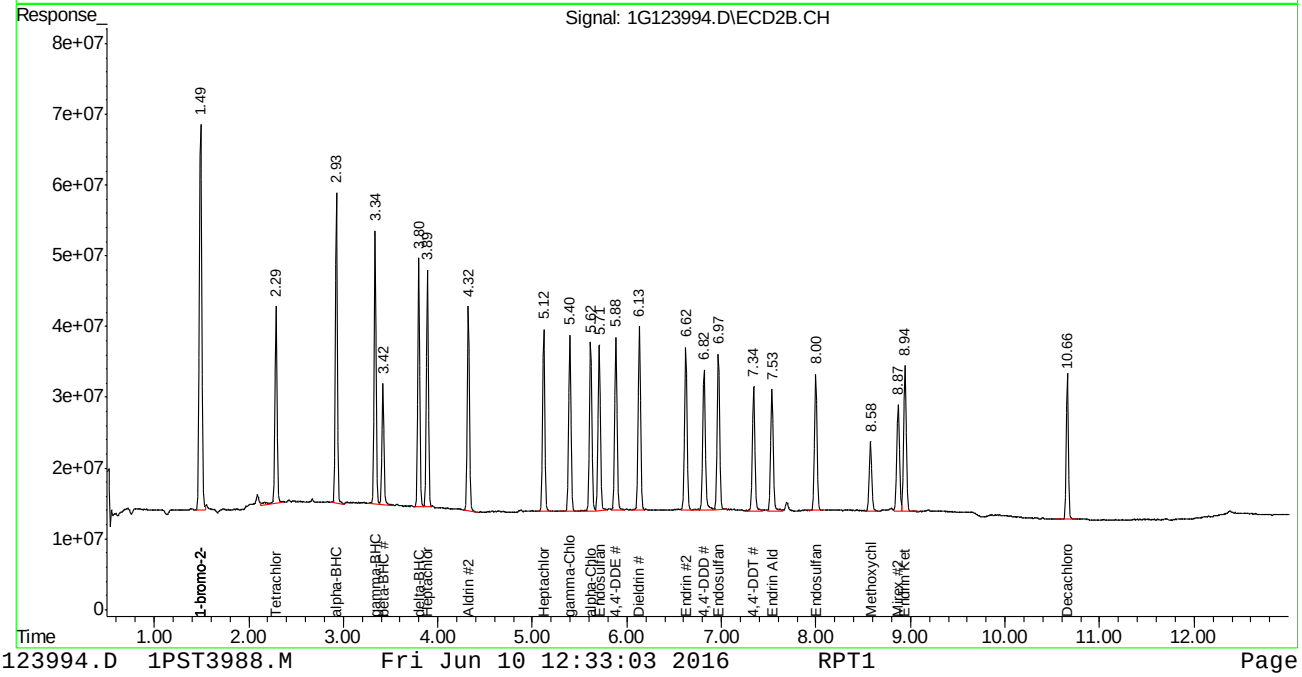
Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\1G4006\1G123994.D\ECD1A.CH Vial: 2
Signal #2 : C:\MSDCHEM\1\DATA\1G4006\1G123994.D\ECD2B.CH
Acq On : 6-8-16 09:34:37 AM Operator: dharas
Sample : cc3988-25 Inst : GC1G
Misc : op94442,g1g4006,16.0,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: Jun 8 9:48 2016 Quant Results File: 1PST3988.RES

Quant Method : C:\MSDCHEM\1\METHODS\1PST3988.M (Chemstation Integrator)
Title : PEST/PCB
Last Update : Wed Jun 08 08:45:23 2016
Response via : Multiple Level Calibration
DataAcq Meth : 1PST3988.M

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.50um Signal #2 Info : 30m x .32mm x .25um





SGS ACCUTEST JC21347

SGS ACCUTEST

SEMIVOLATILE by GC ANALYSIS LOG

Batch ID: G1G3988

Print Analyst Name: Rebecca Krug

Analyst Signature: RK

Date: 5/16/16

Columns: ZB CLPI / ZBCLPII

Method 8081

Initial Cal. Method IPST3988

Injection Volume: 1.0uL

Date Archived:

Standard Data

Lot #	Description	Conc.
SV161874-1MB	Pest mix 1st source	25 ppb
-1MB		50
-1MRC		1
-1MRD		2
-1MRE		5
-1MRF		10
-1MRG		25
-1MRH		100
SV161872-99	mirex 2nd source	250 ppb

Standard Data

Lot #	Description	Conc.
SV161874-07	Pest IPSTD	5 ppm
-79	PCM	10-250 ppb
161933-09	IB	20 ppb
161874-20	chlordane 1st source	10 ppm
-21	Toxaphene 1st source	10 ppm
-96	chlordane 2nd source	500 ppb
-97	Toxaphene 2nd source	500 ppb
160563	Hexane Cfishork	–

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: [signature] **Date:** 5/19/16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution	IS	SU	Status (Data)	Comments
	123059 1G129 RK 5/16/16 ②	dclt				1			✓	OK	
	060	IB				2			✓	OK	
	061	IC3988 – 1	Pest mix	1st source		6			✓	OK	
	062	–2				7			✓	OK	
	063	–5				8			✓	OK	
	064	–10				9			✓	OK	
	065	IC3988 – 25				10			✓	OK	
	066	IC3988 – 50				11			✓	OK	
	067	–75				12			✓	OK	
	068	–100				13			✓	OK	
	069	–500	CHL			14	20		✓	OK	
	070	–500	TOX			15	20		✓	OK	
	071	IC3988-25	Pest	2nd source		16	10		✓	OK	lot # SV16-1874-95
	072	–25	mirex			17	10		✓	OK	
	073	–500	CHL			18			✓	OK	
	074	–500	TOX			19			✓	OK	
											RK 5/17/16

MTX = Matrix. Designate W for water, S for soil, O for oil.. IS = Internal Standard Area. (if used) SU = Surrogate.
Sample volume/weight refer to extraction log.
All strikeouts must be initialed, dated, and reason applied if not transcription error

Form: OR016-08
Rev. Date: 1/19/16

RETENTION TIME WINDOW DETERMINATION

Instrument ID: GC1G
Method: SW846 8081B

	Lab FileID	Date/Time	Sample Number	Analyst
Std#1	1G123065.D	05/16/16 11:21	G1G3988-ICC3988	THOMASL
Std#2	1G123075.D	05/16/16 14:16	G1G3989-CC3988	REBECCAK
Std#3	1G123088.D	05/16/16 19:32	G1G3989-CC3988	REBECCAK

Compound	Sig#	Type	RT#1	RT#2	RT#3	Mean	Actual StdDev	Window (+ /- 3*StdDev)
1-Bromo-2-nitrobenzene	1	ISTD	1.33	1.33	1.33	1.33	0.000	+/- 0.030 [a]
1-Bromo-2-nitrobenzene	2	ISTD	1.50	1.49	1.49	1.49	0.006	+/- 0.030 [a]
Tetrachloro-m-xylene	1	SURR	1.93	1.92	1.92	1.92	0.006	+/- 0.030 [a]
Decachlorobiphenyl	1	SURR	9.23	9.23	9.23	9.23	0.000	+/- 0.030 [a]
Tetrachloro-m-xylene	2	SURR	2.30	2.29	2.29	2.29	0.006	+/- 0.030 [a]
Decachlorobiphenyl	2	SURR	10.68	10.68	10.68	10.68	0.000	+/- 0.030 [a]
alpha-BHC	1	REG	2.41	2.41	2.41	2.41	0.000	+/- 0.030 [a]
gamma-BHC (Lindane)	1	REG	2.71	2.71	2.71	2.71	0.000	+/- 0.030 [a]
beta-BHC	1	REG	2.78	2.78	2.78	2.78	0.000	+/- 0.030 [a]
delta-BHC	1	REG	2.97	2.97	2.97	2.97	0.000	+/- 0.030 [a]
Heptachlor	1	REG	3.20	3.20	3.19	3.20	0.006	+/- 0.030 [a]
Aldrin	1	REG	3.53	3.53	3.52	3.53	0.006	+/- 0.030 [a]
Heptachlor epoxide	1	REG	4.24	4.24	4.24	4.24	0.000	+/- 0.030 [a]
gamma-Chlordane	1	REG	4.40	4.40	4.39	4.40	0.006	+/- 0.030 [a]
alpha-Chlordane	1	REG	4.57	4.57	4.56	4.57	0.006	+/- 0.030 [a]
4,4'-DDE	1	REG	4.68	4.68	4.67	4.68	0.006	+/- 0.030 [a]
Endosulfan-I	1	REG	4.75	4.75	4.75	4.75	0.000	+/- 0.030 [a]
Dieldrin	1	REG	5.07	5.07	5.07	5.07	0.000	+/- 0.030 [a]
Endrin	1	REG	5.39	5.39	5.39	5.39	0.000	+/- 0.030 [a]
4,4'-DDD	1	REG	5.51	5.51	5.50	5.51	0.006	+/- 0.030 [a]
Endosulfan-II	1	REG	5.71	5.71	5.71	5.71	0.000	+/- 0.030 [a]
4,4'-DDT	1	REG	5.92	5.92	5.92	5.92	0.000	+/- 0.030 [a]
Endrin aldehyde	1	REG	6.34	6.34	6.34	6.34	0.000	+/- 0.030 [a]
Methoxychlor	1	REG	6.70	6.69	6.69	6.69	0.006	+/- 0.030 [a]
Mirex	1	REG	6.82	6.82	6.82	6.82	0.000	+/- 0.030 [a]
Endosulfan sulfate	1	REG	7.03	7.03	7.03	7.03	0.000	+/- 0.030 [a]
Endrin ketone	1	REG	7.46	7.46	7.46	7.46	0.000	+/- 0.030 [a]
alpha-BHC	2	REG	2.94	2.94	2.93	2.94	0.006	+/- 0.030 [a]
gamma-BHC (Lindane)	2	REG	3.35	3.35	3.35	3.35	0.000	+/- 0.030 [a]
beta-BHC	2	REG	3.43	3.43	3.43	3.43	0.000	+/- 0.030 [a]
delta-BHC	2	REG	3.81	3.81	3.81	3.81	0.000	+/- 0.030 [a]
Heptachlor	2	REG	3.90	3.90	3.90	3.90	0.000	+/- 0.030 [a]
Aldrin	2	REG	4.34	4.34	4.34	4.34	0.000	+/- 0.030 [a]
Heptachlor epoxide	2	REG	5.14	5.14	5.14	5.14	0.000	+/- 0.030 [a]
gamma-Chlordane	2	REG	5.42	5.41	5.42	5.42	0.006	+/- 0.030 [a]
alpha-Chlordane	2	REG	5.64	5.64	5.64	5.64	0.000	+/- 0.030 [a]
Endosulfan-I	2	REG	5.73	5.73	5.73	5.73	0.000	+/- 0.030 [a]
4,4'-DDE	2	REG	5.90	5.90	5.90	5.90	0.000	+/- 0.030 [a]
Dieldrin	2	REG	6.15	6.15	6.15	6.15	0.000	+/- 0.030 [a]
Endrin	2	REG	6.65	6.64	6.64	6.64	0.006	+/- 0.030 [a]

RETENTION TIME WINDOW DETERMINATION

Instrument ID: GC1G
Method: SW846 8081B

	Lab FileID	Date/Time	Sample Number	Analyst
Std#1	1G123065.D	05/16/16 11:21	G1G3988-ICC3988	THOMASL
Std#2	1G123075.D	05/16/16 14:16	G1G3989-CC3988	REBECCAK
Std#3	1G123088.D	05/16/16 19:32	G1G3989-CC3988	REBECCAK

Compound	Sig#	Type	RT#1	RT#2	RT#3	Mean	Actual StdDev	Window (+ /- 3*StdDev)
4,4'-DDD	2	REG	6.83	6.83	6.84	6.83	0.006	+/- 0.030 [a]
Endosulfan-II	2	REG	6.99	6.99	6.99	6.99	0.000	+/- 0.030 [a]
4,4'-DDT	2	REG	7.36	7.36	7.36	7.36	0.000	+/- 0.030 [a]
Endrin aldehyde	2	REG	7.56	7.56	7.56	7.56	0.000	+/- 0.030 [a]
Endosulfan sulfate	2	REG	8.02	8.02	8.02	8.02	0.000	+/- 0.030 [a]
Methoxychlor	2	REG	8.60	8.60	8.60	8.60	0.000	+/- 0.030 [a]
Mirex	2	REG	8.90	8.90	8.89	8.90	0.006	+/- 0.030 [a]
Endrin ketone	2	REG	8.97	8.97	8.97	8.97	0.000	+/- 0.030 [a]

(a) Default minimum StdDev of .01 minutes employed.

SGS ACCUTEST

SEMIVOLATILE by GC ANALYSIS LOG

Batch ID: G1G 4003

Print Analyst Name: Kristen Drake

Analyst Signature: KD

Date: 6/3/16

Columns: ZBCLP I / ZBCLP II

Method 8081

Initial Cal. Method IPST 3988

Injection Volume: 1.0 µL

Date Archived:

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
SV161933-09	IB	20 ppb
-35	Pest ISTD	5 ppm
-51	PEM	10-250 ppb
-47A	Pest mix	25 ppb
-47B	pest mix	50 ppb
1608663	hexane (fisher)	—
161431-50	TMA SUM	—

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: JR Date: 6/6/16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution	IS	SU	Status (Data)	Comments
	1g123816	ddt				1		✓	✓	OK	
	817	CC3988-50				4		✓	✓	OK	
	818	ib				3		✓	✓	OK	
	819	op94431-mb1	94431	8081 TCL	W	~~4~~ 5	10 613	✓	✓	OK	
	820	op94431-bs1				~~5~~ 6	10613	✓	✓	OK	
	821	JC21229-3				6		✓	✓	OK	
	822	JC21347-3				7		✓	✓	OK	
	823	jc21252-1	94409	8081 PPL	S	8		✓	✓	OK	had TBA
	824	LA20965-21	94431	8081 TCL	W	9		✓	✓	OK	
	825	LA20965-25				10		✓	✓	OK	
	826	jc21229-4				11		✓	✓	OK	
	827	op94431-ms				12		✓	✓	OK	
	828	op94431-msd				13		✓	✓	OK	
	829	jc20936-4	94273	8081 TCL	S	14		✓	✓	OK	
	830	jc20888-3		8081 TCL		15		✓	✓	OK	
	831	jc20936-2	94273			16		✓	✓	OK	had TBA
	832	op94409-mb1	94409			17		✓	✓	OK	HAd TBA
	833	-bs1				18		✓	✓	OK	
	834	op94273-mb1	94273			19		✓	✓	OK	

MTX = Matrix . Designate W for water, S for soil, O for oil.. IS = Internal Standard Area. (if used) SU = Surrogate.
Sample volume/weight refer to extraction log.
All strikeouts must be initialed, dated, and reason applied if not transcription error

Form: OR016-08
Rev. Date: 1/19/16

SGS ACCUTEST JC21347

11.7.2 11

SGS ACCUTEST

SEMIVOLATILE by GC ANALYSIS LOG

Batch ID: G1G 4003

Print Analyst Name: Dhara Sapariya

Date: 6/3/16

Analyst Signature:

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
161933-09	IB	20 ppb
-35	Pest ISTD	5 ppm
-51	PCM	10-250 ppb
-49A	Pest mix	25 ppb
-49B	Pest mix	50 ppb
160863	Hexane (Fisher)	–
161933-50	TBA std	–

Columns: ZOCLP21 / ZOCLP17

Method 8081

Initial Cal. Method 1PST 3988

Injection Volume: 1.0 uL

Date Archived:

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: JR Date: 6/6/16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution	IS	SU	Status (Data)	Comments
	12123835	OP94273-BS1	94273	8081 TCL	S	20		✓	✓	OK	HAS TBA
	836	JC20937-3				21		✓	✓	OK	
	837	JC20936-5				22		✓	✓	OK	RA 1.5
	838	ddt				1		✓	✓	OK	
	839	CC3988-25				2		✓	✓	OK	
	840	IB				3		✓	✓	OK	
	841	OP94405-MB1	94405	8081	W	5		✓	✓	OK	
	842	OP94314-MB1	94314	8081	W	6		✓	✓	OK	
	843	-BS1				7		✓	✓	OK	
	844	JC21002-34		GDHC		8		✓	✓	OK	
	845	CC3988-50				4		✓	✓	OK	
	846	IB				3		✓	✓	OK	
	847	OP94430-MB1	94430	8081	S	9		✓	✓	OK	
	848	-BS1				10		✓	✓	OK	
	849	-MB11				11		✓	✓	OK	
	850	JC21199-1		TCL		12		✓	✓	OK	
	851	JC21274-1		PPL		13		✓	✓	OK	
	852	-10				14		✓	✓	OK	
	853	OP94430-MS				15		✓	✓	OK	

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All strikeouts must be initialed, dated, and reason applied if not transcription error

Form: OR016-08
Rev. Date: 1/19/16

SGS ACCUTEST JC21347

11.7.2 11

SGS ACCUTEST

SEMIVOLATILE by GC ANALYSIS LOG

Batch ID: GC H003

Print Analyst Name: Dhara suparid

Date: 6/3/16

Analyst Signature:

Columns: ZDCLPI / ZDCLPII

Method 8081

Initial Cal. Method 1PST 3988

Injection Volume: 1.0 ul

Date Archived:

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
CV 161933-04	IB	20 ppb
-35	Pest DSTD	5 ppm
-51	PCM	10-250 ppb
-47A	Pest mix	25 ppb
-47A	↓	50 ↓
160863	Hexane (Fisher)	-

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: JP Date: 6/6/16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution	IS	SU	Status (Data)	Comments
	12123854	OPQ4N30-MSD	QNN30	8081	S	16		✓	✓	OK	
	855	JC21321-1A		TCL		17		✓	✓	OK	
	856	JC21236-6				18		✓	✓	OK	
	857	-20				19				NOT USED	Need TMA
	858	-22				20		✓	✓	OK	
	859	-25				21		✓	✓	OK	
	860	-26				22				NOT USED	Need TMA
	861	RA20965-17				23		✓	✓	OK	

DK 6/6/16

MTX = Matrix . Designate W for water, S for soil, O for oil.. IS = Internal Standard Area. (if used) SU = Surrogate.
Sample volume/weight refer to extraction log.
All strikeouts must be initialed, dated, and reason applied if not transcription error

Form: OR016-08
Rev. Date: 1/19/16

SGS ACCUTEST JC21347

11.7.2 11

SGS ACCUTEST

SEMIVOLATILE by GC ANALYSIS LOG

Batch ID: G1G4004

Print Analyst Name: Kristen Drake

Analyst Signature: KD

Date: 6/16/16

Columns: ZBCLPI | ZBCLPII

Method 8081

Initial Cal. Method 1PST3988

Injection Volume: 1.0 µL

Date Archived:

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
SV 161932-35	Pest ISTD	5 ppm
-04	IB	20 ppb
-51	PCM	10-250 ppb
-hm	Pest mix	25 ppb
-hm	Pest mix	50 ppb
160863	Hexane (final)	-

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: [signature] Date: 6/13/16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution	IS	SU	Status (Data)	Comments
	1g12382	ddt				1				not usin	
	863	CC3988-25				2			/	NG	
	864	IB				3				not usin	
	865	ddt				1		/	/	OK	
	866	CC3988-50				4		/	/	OK	
	867	IB				3		/	/	OK	
	868	OP94879-MS1	94379			5		/	/	OK	
	869	-MSD				6		/	/	OK	
	870	OP94878-MS1	94378	Sem SL	W	7		/	/	OK	
	871	-MSD				8		/	/	OK	
	872	JC21350-1				9		/	/	OK	
	873	-2				10		/	/	OK	
	874	OP94878-MS				11		/	/	OK	
	875	-MSD				12		/	/	OK	
	876	JC21350-3				13		/	/	OK	
	877	-5				14		/	/	OK	
	878	-6				15		/	/	OK	
	879	-7				16		/	/	OK	
	880	JC20963-1	94324			17		/	/	OK	Run before seq. 1123879

MTX = Matrix . Designate W for water, S for soil, O for oil.. IS = Internal Standard Area. (if used) SU = Surrogate.
Sample volume/weight refer to extraction log.
All strikeouts must be initialed, dated, and reason applied if not transcription error

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Form: OR016-08
Rev. Date: 1/19/16

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SGS ACCUTEST

SEMIVOLATILE by GC ANALYSIS LOG

Batch ID: GC-4004

Print Analyst Name: Dhera Saparia

Analyst Signature:

Date: 6/6/16

Columns: 2BCCPI / 2DCCPD

Method 8081

Initial Cal. Method 1PST3958

Injection Volume: 1.0 uL

Date Archived:

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
SV1H933-35	Pest ISTD	5 ppm
-09	IB	20 ppb
-51	PEM	10-250 ppb
-47A	Pest Mix	25 ppb
-47B	Pest Mix	50 ppb
1608163	Toxaphene (Fisher)	—

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: [signature] Date: 6/13/16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution	IS	SU	Status (Data)	Comments
	12123551	blk				1				OK	
	552	CC3958-50				4				OK	
	553	IB				3				OK	
	554	florisil check				5	2				
	555	florisil check #1	616			6					
	556	florisil check #2	616			7					
	557	OP94468-MD1	94468	8081 TCLP	W	8				OK	OP94247-3
	558	-DS1				9				OK	
	559	OP94499-MD1	94499			10				OK	
	560	-DS1				11				OK	
	561	JC21431-1				12				OK	
	562	JC21521-1A				13				OK	
	563	OP94499-LS10				14				OK	
	564	-MS10				15				OK	
	565	-LD39				16				OK	
	566	JC21311-1	94468			17				OK	
	567	JC21311-2				18				OK	
	568	JC21407-1	94247			19				OK	
	569	OP94468-LS8	94468			20				OK	+ms

MTX = Matrix . Designate W for water, S for soil, O for oil.. IS = Internal Standard Area. (if used) SU = Surrogate.
Sample volume/weight refer to extraction log.
All strikeouts must be initialed, dated, and reason applied if not transcription error

Form: OR016-08
Rev. Date: 1/19/16

SGS ACCUTEST

SEMIVOLATILE by GC ANALYSIS LOG

Batch ID: G-1C H004

Print Analyst Name: Dhara Saporiy

Analyst Signature:

Date: 6/6/16

Columns: 2ndCOL/ 2ndCOLD

Method 8081

Initial Cal. Method LRST 3955

Injection Volume: 1.0 uL

Date Archived:

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
SV1619335	Pest ISTD	5 ppm
-09	IB	20 ppb
-51	Pem	10-250 ppb
-47A	Pest mix	25 ppb
-47B	Pest mix	50 ppb
1608603	Hexane (Fisher)	—
1619335-61	TBA	—

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: Date: 6/13/16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution	IS	SU	Status (Data)	Comments
	12123900	OP94465-MSD	94465	8081 TCLP	W	21				OK	
	901	OP94247-LB36	94247			22				OK	
	902	-LB33	94465			23				OK	
	903	CC3955-25				2				OK	
	904	IB				3				OK	
	905	OP94442-MD1	94442	8081	S	24				OK	
	906	-MS1				25				OK	
	907	OP94430-MD1	94430	TCL		26				OK	HAD TBA
	908	-MS1				27				OK	
	909	JC21236-26				28				OK	rr backup ISTD
	910	-20				29				OK	rr backup ISTD
	911	JC21175-1	94379	8081 TCL		30				not using	needs TBA
	912	-2				31				OK	
	913	-4				32				OK	
	914	-5				33				not using	needs TBA
	915	-6				34				not using	needs TBA
	916	OP94379-MS				35				OK	
	917	-MSD				36				OK	
	918	JC20936-5	94273	TCL		37	5			OK	

MTX = Matrix. Designate W for water, S for soil, O for oil.. IS = Internal Standard Area. (if used) SU = Surrogate.
Sample volume/weight refer to extraction log.
All strikeouts must be initialed, dated, and reason applied if not transcription error

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Form: OR016-08
Rev. Date: 1/19/16

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SGS ACCUTEST JC21347

SGS ACCUTEST

SEMIVOLATILE by GC ANALYSIS LOG

Batch ID: 01-hoo4

Print Analyst Name: Dhara Saparia

Analyst Signature: [signature]

Date: 6/6/16

Columns: 20CLPI | 20CLPII

Method 8081

Initial Cal. Method 18ST3458

Injection Volume: 1.0uL

Date Archived:

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
SV16G3235	Pest TSTD	5 ppm
-09	IB	20 ppb
-51	~~[illegible]~~ Pem	10-30 ppb
-47A	Pest mix	25 ppb
-47B	pest mix	50 ppb
16D563	hexane (rinse)	—

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: [signature] Date: 6/13/16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution	IS	SU	Status (Data)	Comments
	12123919	JC21236-10	94430	Pest TCL		38		/	/	OK	
	920	-5				39		/	/	OK	
	921	-12				40		/	/	OK	
	922	Hexane				41		/	/	OK	
	↓ 929	Hexane				41		/	/	OK	
											KO 6/7

MTX = Matrix . Designate W for water, S for soil, O for oil.. IS = Internal Standard Area. (if used) SU = Surrogate.
Sample volume/weight refer to extraction log.
All strikeouts must be initialed, dated, and reason applied if not transcription error

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Form: OR016-08
Rev. Date: 1/19/16

11.7.3 11

SGS ACCUTEST

SEMIVOLATILE by GC ANALYSIS LOG

Batch ID: G1G4005

Print Analyst Name: Kristen Drake

Analyst Signature: KD

Date: 6/7/16

Columns: ZBCLPI | ZBCLPII

Method 8081

Initial Cal. Method IPST3988

Injection Volume: 1.0 µL

Date Archived:

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
SV1606235	Pest-TSTD	5ppm
-09	IS	20 ppb
-51	Pem	10-250 ppb
-47A	Pest mix	25 ppb
-47B	Pest mix	50 ppb
1608103	Mirex (fstd)	—

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: [signature] Date: 6/13/16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution	IS	SU	Status (Data)	Comments
	1g123930	ddt				1				notusing	
	931	cc3988-50				4				no notusing	
	932	ib				3				notusing	
	933	ddt				1		/	/	ok	
	934	cc3988-25				2		/	/	ok	
	935	ib				3		/	/	ok	
	936	op94490-mbl	94490	8081 PPL	S	5		/	/	ok	
	937	op9490-bsl				6		/	/	ok	
	938	op94519-mbl	94519	8081 PPL	S	7		/	/	ok	
	939	op94519-bsl				8		/	/	ok	
	940	jc21540-1	94490	8081 PPL	S	9				not usin	need TBA
	941	jc21540-6				10		/	/	ok	RR 1:10
	942	jc21540-11				11				not usin	need TBA
	943	jc21485-2	94519	8081 PPL	S	12		/	/	ok	
	944	jc21485-4				13		/	/	ok	
	945	jc21485-10				14		/	/	ok	
	946	jc21518-1				15		/	/	ok	
	947	jc21337-1a		8081 TCL	S	16		/	/	ok	
	948	jc21337-2a		8081 TCL		17		/	/	ok	

MTX = Matrix . Designate W for water, S for soil, O for oil.. IS = Internal Standard Area. (if used) SU = Surrogate.
Sample volume/weight refer to extraction log.
All strikeouts must be initialed, dated, and reason applied if not transcription error

Form: OR016-08
Rev. Date: 1/19/16

SGS ACCUTEST

SEMIVOLATILE by GC ANALYSIS LOG

Batch ID: G1G4005

Print Analyst Name: Kristen Drake

Analyst Signature: KD

Date: 6/7/16

Columns: ZBCLPI | ZBCLPII

Method 8081

Initial Cal. Method IPST 3988

Injection Volume: 1.0 µL

Date Archived:

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
S1160323.35	Pest ISTD	5 ppm
-09	IB	20 ppb
-51	Pem	10-250 ppb
-47A	Pest mix	25 ppb
-47B	Pest mix	50 ppb
1608603	hexane (Fisher)	—

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: [illegible] Date: 6/13/16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution	IS	SU	Status (Data)	Comments
	1g23949	op94490-ms	94490	8081 PPL	S	18		/	/	OK	
	950	op94490-msd				19				Not usin	need MA
	951	op94519-ms	94519	8081 PPL	S	20				Not run	cut from sequence
	952	op94519-msd				21				Not run	↓
	953	ddt				1		/	/	OK	
	954	cc3988-25				2		/	/	OK	
	955	IB				3		/	/	OK	
	956	Pest spike	OPI			5	10	/	/	OK	OP16171213 7B
	957	op94503-MS1	94503	Soxl	W	6		/	/	OK	
	958	-DS1				7		/	/	OK	
	959	-DS13				8		/	/	OK	
	960	-DSD13				9		/	/	OK	
	961	-DS14				10		/	/	OK	
	962	-DSD14				11		/	/	OK	
	963	op94510-MS1	94510	Soxl SPLP	W	12		/	/	OK	
	964	-DS1				13		/	/	OK	
	965	-DSD				14		/	/	OK	
		JC21474-7		SPLP/dich		15		/	/	RX	RX where better chrom LDHO contamination
		-1A		CHL/SPLP		16		/	/	OK ~~RX~~ DILUTE @ ~~RR 1:10~~ DILUTE @	↓

MTX = Matrix. Designate W for water, S for soil, O for oil.. IS = Internal Standard Area. (if used) SU = Surrogate.
Sample volume/weight refer to extraction log.
All strikeouts must be initialed, dated, and reason applied if not transcription error

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Form: OR016-08
Rev. Date: 1/19/16

11.7.4 11

SGS ACCUTEST

SEMIVOLATILE by GC ANALYSIS LOG

Batch ID: G1G4005

Print Analyst Name: Dhara Saparia

Analyst Signature:

Date: 6/7/16

Columns: ZB-CLP1 / ZB-CLP2

Method 8081

Initial Cal. Method IPST 3955

Injection Volume: 1.0 ul

Date Archived:

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
161933-09	IB	20 ppb
-25	Pest IPST	5 ppm
-51	PEM	10-250 ppb
-47A	Pest mix	25 ppb
-47B	↓	50 ↓
160863	Hexane (Fisher)	–

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: Date: 6/13/16

R	Data File	Sample ID	Ext. Batch	Test	MTX	MALS #	Dilution	IS	SU	Status (Data)	Comments
	12123966	JC21474-2A	94510	8081 SPLP	W	17		✓	✓	RX	RX whole batch due to LRB contamination
	967	-5A		dilution		18		✓	✓	RX	
	968	OP94510-LRB				19		✓	✓	RX	
	969	CC3955-50				4		✓	✓	OK	
	970	IB				3		✓	✓	OK	
	971	JC21515-7	94543	SL		20		✓	✓	OK	Run before see 12123964
	972	JC21517-6		↓		21		✓	✓	OK	↓
	973	JC21372-5		TCL		22		✓	✓	OK	
	974	OP94543-MS				23		✓	✓	OK	
	975	-MSD				24		✓	✓	OK	
	976	JC21515-1		TSL		25		✓	✓	OK	
	977	-2				26		✓	✓	OK	
	978	-3				27		✓	✓	OK	
	979	-4				28		✓	✓	OK	
	980	-5				29		✓	✓	OK	
	981	JC21517-1				30		✓	✓	OK	
	982	-2				31		✓	✓	OK	
	983	-4				32		✓	✓	OK	
	984	-5				33		✓	✓	OK	

MTX = Matrix. Designate W for water, S for soil, O for oil.. IS = Internal Standard Area. (if used) SU = Surrogate.
Sample volume/weight refer to extraction log.
All strikeouts must be initialed, dated, and reason applied if not transcription error

Form: OR016-08
Rev. Date: 1/19/16

SGS ACCUTEST JC21347

11.7.4 11

SGS ACCUTEST

SEMIVOLATILE by GC ANALYSIS LOG

Batch ID: GC 4005

Print Analyst Name: Dhara Suparia

Analyst Signature:

Date: 6/7/16

Columns: 2nd ChPI / 2nd ChPII

Method 8081

Initial Cal. Method 1PST 3/25

Injection Volume: 1.0 uL

Date Archived:

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
SW16033-06	IS	10ppm
-35	Pest ISTD	50ppm
-51	PCB	10-250ppm
-47A	Pest Mix	15ppm
-47B	Pest Mix	50ppm
160983	Hexane (ISTD)	—

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: [signature] **Date:** 6/13/16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution	IS	SU	Status (Data)	Comments
	12123955	OP94519-MS	94519	8081	S	34		✓	✓	OK	
	956	-MSD				35		✓	✓	OK	
	957	JC21347-2	94442	8081 TCL	S	36		✓	✓	OK	
	958	OP94442-MS				37		✓	✓	OK	
	959	-MSD				38		✓	✓	OK	
	990	Hexane				100		✓	✓	OK	Run before seq 12123951
	992	Hexane				100		✓	✓	OK	

DK 6/7/16

MTX = Matrix . Designate W for water, S for soil, O for oil.. IS = Internal Standard Area. (if used) SU = Surrogate.
Sample volume/weight refer to extraction log.
All strikeouts must be initialed, dated, and reason applied if not transcription error

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Form: OR016-08
Rev. Date: 1/19/16

11.7.4 11

SGS ACCUTEST

SEMIVOLATILE by GC ANALYSIS LOG

Batch ID: G1G 4006

Print Analyst Name: Dhara Suparij

Date: 6/8/16

Analyst Signature:

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
1614933-09	IB	20 ppb
-05	Pest ISTD	5 ppm
-51	PEM	10-250 ppb
-47A	Pest mix	25 ppb
-47B	↓	50 ↓
160863	Hexane (Fisher)	–
1614933-61	TDA std	–

Columns: 2nCCAP / 2nCCAP

Method 8081

Initial Cal. Method 1PIT3988

Injection Volume: 1.0 µL

Date Archived:

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: [signature] Date: 6/13/16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution	IS	SU	Status (Data)	Comments
	12123993	ddd				1		✓	✓	OK	
	994	CC3988-25				2		✓	✓	OK	
	995	IB				3		✓	✓	OK	
	996	OP94446-MB1	94446	8081 TCL	S	5		✓	✓	OK	
	997	-BS1				6		✓	✓	OK	
	998	-MS11				7		✓	✓	OK	
	999	JC21236-32				8		✓	✓	OK	
	12124000	-36				9		✓	✓	OK	
	001	-41				10		✓	✓	OK	
	002	JC21269-1				11		✓	✓	OK	RR 1:50
	003	-2				12		✓	✓	OK	RR 1:50
	004	-3				13		✓	✓	OK	RR 1:20
	005	-4				14		✓	✓	OK	RR 1:20
	006	-5				15				Not run	cut from seq
	007	OP94474-MS1	94474	8081 TCL	S	16		✓	✓	OK	MAd TDA
	008	-BS1				17		✓	✓	OK	
	009	JC21175-1				18				Not run	cut from seq
	010	-5				19				Not run	↓
	011	-6				20				Not run	cut from seq

MTX = Matrix. Designate W for water, S for soil, O for oil.. IS = Internal Standard Area. (if used) SU = Surrogate.
Sample volume/weight refer to extraction log.
All strikeouts must be initialed, dated, and reason applied if not transcription error

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Form: OR016-08
Rev. Date: 1/19/16

11.7.5 11

SGS ACCUTEST

SEMIVOLATILE by GC ANALYSIS LOG

Batch ID: G1G 4006

Print Analyst Name: Dharu Supavid

Date: 6/8/16

Analyst Signature:

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
161933-09	IB	20 ppm
-25	Rest IRTD	5 ppm
-51	PEM	10-250 ppm
-144	Rest mix	25 ppm
-144	↓	50 ↓
160506	Hexane (final)	—
161933-09	TNA std	—

Columns: 20CLMS I / 20CLMS II

Method 8081

Initial Cal. Method 1 PST 1988

Injection Volume: 1.0 ul

Date Archived:

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: [illegible] **Date:** 6/13/16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution	IS	SU	Status (Data)	Comments
	121201	OP94490-MS	94490	8081 PCL	S	20		/	/	OK	Run before see HAd TNA 121200
	012	-MSD				21			/	OK	↓
	013	JC21540-1				22		/	/	OK	RA 1:10
	014	-11				23		/	/	OK	
	015	JC21540-6				24	10	/	/	OK	Run before see 121200 3
	016	OP94490-MSD				25		/	/	OK	HAd TNA
	017	JC21540-1				26	10	/	/	OK	Run before 121200
	018	ccv				1		/	/	OK	
	019	CC3988-50				4		/	/	OK	
	020	lb				3		/	/	OK	
	021	OP94561-mb1	94561	tclp	W	5		/	/	OK	OP. 94570
	022	OP94561-bs1				6		/	/	OK	OP94570
	023	~~OP94561-bsd~~ OP94570	94570			7		/	/	OK	OP 94570
	024	JC21499-1				8		/	/	OK	
	025	JC21499-2				9		/	/	OK	
	026	JC21516-14G				10		/	/	OK	
	027	LA21245-1	94570			11		/	/	OK	OP94570
	028	OP94561-LS2				12		/	/	OK	
	029	OP94561-msd				13		/	/	OK	

MTX = Matrix . Designate W for water, S for soil, O for oil.. IS = Internal Standard Area. (if used) SU = Surrogate.
Sample volume/weight refer to extraction log.
All strikeouts must be initialed, dated, and reason applied if not transcription error

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Form: OR016-08
Rev. Date: 1/19/16

11.7.5 11

SGS ACCUTEST

SEMIVOLATILE by GC ANALYSIS LOG

Batch ID: G1G4006

Print Analyst Name: Kristen Drake

Analyst Signature: KD

Date: 6/8/16

Columns: ZBCLPI / ZBCLPII

Method 8081

Initial Cal. Method IPST3988

Injection Volume: 1.0 µL

Date Archived:

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
SO16933-09	IB	20 ppb
-35	Pest ISTD	5 ppm
-51	Pem	10-250 ppb
-47A	Pest mix	25 ppb
-47B	Pest mix	50 ppb
160863	toxene (Tristar)	—
16933-69	TBA	—

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: [signature] Date: 6/13/16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution	IS	SU	Status (Data)	Comments
	g124030	op94561-LB3	94561	tclp	W	14		✓	✓	ok	
	031	jc21474-1a	94510	~~tcl~~ KD 6/8		15	10	✓	✓	ok	
	032	jc21236-20	94430	tcl	S	16		✓		not usin	RX for L.ISTD
	033	jc21236-26				17		✓		not usin	↓
	034	jc21175-1	94379	tcl	S	18		✓	✓	ok	had TBA
	035	jc21175-5				19				not usin	↓ bad interferm
	036	jc21175-6				20		✓	✓	ok	
	037	jc21236-35	94446	tcl	S	21		✓	✓	ok	RA ~~1:5~~ DIL 6/13 1:10
	038	op94446-ms				22		✓	✓	ok	
	039	op94446-msd				23		✓	✓	ok	
											DIL 6/9/16

MTX = Matrix. Designate W for water, S for soil, O for oil.. IS = Internal Standard Area. (if used) SU = Surrogate.
Sample volume/weight refer to extraction log.
All strikeouts must be initialed, dated, and reason applied if not transcription error

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Form: OR016-08
Rev. Date: 1/19/16

11.7.5 11

6-1765

LOGBOOK ID:

Pest/PCB Extraction Log - Aqueous

Date Started: 6/2/16 Time Started: 1802

Date Finished: 6/2/16 Time Finished: 2315

Extract Method (CHECK OFF "√" /DO NOT CIRCLE):

Separatory Funnel: SW846 3510C/CLP/other_____

Continuous Liquid Liquid: SW846 3520C/CLP/other_____

BATCH # GC 94431	RACK# Pest-10
Extracted by:	SD
Concentrated by:	SD,
Vialed by:	SD, GM
Relinquished by:	
Accepted by:	
Supervisor Review:	6/3/16

Special Client Spike Instructions

QC ID# for Special Spike	Amt to Spike	Spike ID	Lot #	Conc.	Amt. Spiked

WITNESS SIGN: SPIKE SIGN:

Manager/Supervisor/Team Lead Approval:

Sample #	Analysis Type	Sample Bottle #	pH	Sample Description	Sample Volume (mL)	Final Extract Color	Final Extract Vol(mL)	GPC	Copper	H2SO4	Florisil	Comments
MB1	Pest			DI H2O	1000	Clear	10		✓			
BS1				DI H2O	1000	clear	10		✓			
JC21347-3 MS		2		brown	955	l. yellow	10		✓			
MSD		2		brown	955	l. yellow	10		✓			
BS												
MS												
MSD												
1 JC21347-3	Pest	3		brown	910	l. yellow	10		✓			
2 LA 20965-21		1		l. yellow	940	clear	10		✓			
3 -25		1		l. yellow	950	clear	10		✓			
4 JC21229-3 rx		1		l. yellow	920	clear	10		✓			
5 -4		3		orange	890	clear	10		✓			
6												
7												
8												
9												
10												
11												
12												
13												
14												
15												
16												
17												
18												
19												
20												

Comments: Okay to split ms/msd not enough bottles.

Equipment/ Range	ID	Observed Temp (°C)	Correction Factor (°C)	Corrected Temp (°C)	Pressure/ Flowrate
Buchi (65-71°C)	2	65	/	/	ok
Buchi Chiller	B2	11	/	/	ok
Waterbath (70-80°C)	6,7	75,75	-0.5,0.1	74,75	NA
Waterbath Chiller (GPM)	B2	4	/	/	2
NEVAP (32-38°C, LPM)					

SURROGATE	LOT #	CONC (ppb)	AMT (mL)
PPCB op	1617n127	400	1

WITNESS SIGN: SD SPIKE SIGN: RF

MATRIX SPIKE	LOT #	CONC	AMT (mL)
PEST	SV16193358	250ppb	1
PCB			

WITNESS SIGN: SD SPIKE SIGN: RF

SOLVENT	LOT #	BRAND	AMT (mL)
METH CHLOR	162641	fisher	3/60
HEXANE	160863	fisher	50

REAGENT	LOT #	BRAND
Sodium Sulfate	15417	fisher
Glass Wool	02Q12-2	lab
Filter Paper		
Copper op	1617120016	aldrich
Florisil		
1:1 Sulfuric Acid		
Chlorine Strips		

SPECIAL PROCESSING INSTRUCTIONS

Rx Reason: 1 day TAT due yesterday rx

Spiking:

Weights/Volumes:

Required MS/MSD:

Final Volume:

Other:

SGS ACCUTEST INC.
Form: OP021A-06
Rev Date: 1/13/16

13

LOGBOOK ID: 6-1750

Pest / PCB Extraction Log - Soils

Date Started: 6/3/16 Time Started: 11:15am
Date Finished: 6/3/16 Time Finished: 6:30

Extract Method (CHECK OFF "√" /DO NOT CIRCLE):
Microwave SW3546 X Sonication SW3550C ____
Waste Dilution SW3580A ____ Soxhlet SW3540 ____

BATCH # GC 94442 RACK# B-105
Weighed/Extracted by: RG
Concentrated by: RG
Vialed by: RG
Relinquished by:
Accepted by:
Supervisor Review: 6/3/16

Special Client Spike Instructions

QC ID# for Special Spike	Amt to Spike	Spike ID	Lot #	Conc.	Amt. Spiked

WITNESS SIGN: SPIKE SIGN:
Manager/Supervisor/Team Lead Approval:

	Sample #	Analysis Type	Sample Bottle #	Sample Description	Sample Wet Wt. (g) Oil (g) Liq (mL)	Decant Y	Decant N	Sonicator ID	Microwave ID	Final Extract Color	Final Extract Vol (mL)	Extract Cleanup H2SO4	Florisil	Cu	GPC	Comment
	MB1	Pest		Sand	15.0		/		4	Clear	10		/	/		
	BS1			Sand	15.0		/		4	Clear	10		/	/		
	JC21347-2 MS		1	Soil	15.8		/		4	clear	10		/	/		
	↓ MSD		1	Soil	16.0		/		4	clear	10		/	/		
	BS															
	MS															
	MSD															
1	JC 21328-1A	Pest	1	Soil	15.4		/		4	clear	10		/	/		
2	-2A		1	Soil	16.1		/		4	clear	10		/	/		
3	-3A		1	Sand	15.4		/		4	clear	10		/	/		
4	-4A		1	Sand	15.7		/		4	clear	10		/	/		
5	-5A		1	Soil	15.4		/		4	clear	10		/	/		
6	-6A		1	Soil	16.3		/		4	clear	10		/	/		
7	-7A		1	Sand	15.8		/		4	yellow	10		/	/		
8	-8A		1	Sand	15.7		/		4	clear	10		/	/		
9	-9A		1	Sand	16.8		/		4	clear	10		/	/		
10	-10A		1	Soil	16.0		/		4	yellow	10		/	/		
11	-11A		1	Soil	16.3		/		4	yellow	10		/	/		
12	-12A		1	Soil	15.9		/		4	yellow	10		/	/		
13	-13A		1	Soil	16.1		/		4	clear	10		/	/		
14	JC21347-2		1	Soil	16.0		/		4	clear	10		/	/		
15																
16																
17																
18																
19																
20																

Comments: ~weights 15.7g.

SPECIAL PROCESSING INSTRUCTIONS

Rx Reason:

Spiking:

Weights/Volumes:

Required MS/MSD:

Final Volume:

Other:

Equipment/ Range	ID	Observed Temp (°C)	Correction Factor (°C)	Corrected Temp (°C)	Pressure/ Flowrate
Buchi (65-71°C)	3	65	N/A	N/A	ok ok
Buchi Chiller	B3	11	N/A	N/A	ok ok
Waterbath (70-80°C)					
Waterbath Chiller (GPM)					
NEVAP (32-38°C, LPM)	2	36.1	+0.1	36.2	10psi
Balance	B-47	N/A	N/A	N/A	N/A

SURROGATE	LOT #	CONC (ppb)	AMT (mL)
PPCB	0216171217	400	1.0

WITNESS SIGN: MA SPIKE SIGN: RG

MATRIX SPIKE	LOT #	CONC	AMT (mL)
PEST	SV16193-58	250 ppb	1.0
PCB			

WITNESS SIGN: MA SPIKE SIGN: RG

SOLVENT	LOT #	BRAND	AMT (mL)
2:1 HEXANE/ ACETONE	160863 158571	~~Fisher~~	30
1:1 METH CHLOR/ ACETONE			
HEXANE			

REAGENT	LOT #	BRAND
HYDROMATRIX	6290850	Agilent
SODIUM SULFATE	157117	Fisher
FILTER PAPER	9696391	Fisher
FLORISIL	3213057	Phenomenex
1:1 SULFURIC ACID		
COPPER	1617121006	Aldrich

MATRIX	LOT #	BRAND
SAND	GGA160113 11A	Fisher

SGS ACCUTEST INC.
Form: OP018A-05
Rev Date: 11/20/15

General Chemistry

QC Data Summaries

Includes the following where applicable:

- Percent Solids Raw Data Summary

Percent Solids Raw Data Summary

Job Number: JC21347
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample: JC21347-2 **Analyzed:** 06-JUN-16 by KP **Method:** SM2540 G-97
ClientID: RA12(15-16)

Wet Weight (Total)	31.87	g
Tare Weight	24.4	g
Dry Weight (Total)	30.2	g
Solids, Percent	77.6	%