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Automated Report

Technical Report for

Anderson, Mulholland & Associates

BMSMC, Building 5 Area, PR

02i

SGS Accutest Job Number: JC24978

Sampling Dates: 07/28/16 - 07/29/16

Report to:

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

ATTN: Terry Taylor

Total number of pages in report: **391**

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

Client Service contact: Tammy McCloskey 732-329-0200

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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Test results relate only to samples analyzed.

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SGS Accutest

Sample Summary

Anderson, Mulholland & Associates

Job No: JC24978

BMSMC, Building 5 Area, PR
Project No: 02i

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
JC24978-1	07/28/16	15:45	NR	07/30/16	AQ	Ground Water	OSMS-2D
JC24978-2	07/28/16	17:18	NR	07/30/16	AQ	Ground Water	OSMW-2S
JC24978-3	07/28/16	17:30	NR	07/30/16	AQ	Ground Water	OSMW-2SD
JC24978-4	07/29/16	10:48	JD	07/30/16	AQ	Ground Water	OSMW-1D
JC24978-5	07/29/16	11:50	JD	07/30/16	AQ	Ground Water	OSMW-1S
JC24978-6	07/28/16	11:32	NR	07/30/16	AQ	Equipment Blank	EB072816

CASE NARRATIVE / CONFORMANCE SUMMARY

Client:	Anderson, Mulholland & Associates	**Job No**	JC24978
Site:	BMSMC, Building 5 Area, PR	**Report Date**	8/11/2016 5:21:31 PM

On 07/30/2016, 5 Sample(s), 0 Trip Blank(s) and 1 Equipment Blank(s) were received at SGS Accutest at a maximum corrected temperature of 4 C. Samples were intact and chemically preserved, unless noted below. A SGS Accutest Job Number of JC24978 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 BY SIM

Matrix: AQ **Batch ID:** OP95939A

- All samples were extracted within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JC24878-2MS, JC24878-2MSD were used as the QC samples indicated.
- RPD(s) for MSD for 1,4-Dioxane are outside control limits for sample OP95939A-MSD. Analytical precision exceeds in-house control limits.

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: JC24978
Account: Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR
Collected: 07/28/16 thru 07/29/16

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
JC24978-1	**OSMS-2D**					
1,4-Dioxane		14.4	1.1	0.054	ug/l	SW846 8270D BY SIM
JC24978-2	**OSMW-2S**					
1,4-Dioxane		16.4	1.1	0.051	ug/l	SW846 8270D BY SIM
JC24978-3	**OSMW-2SD**					
1,4-Dioxane		14.7	1.1	0.052	ug/l	SW846 8270D BY SIM
JC24978-4	**OSMW-1D**					
1,4-Dioxane		1290	43	2.1	ug/l	SW846 8270D BY SIM
JC24978-5	**OSMW-1S**					
1,4-Dioxane		1060	20	1.0	ug/l	SW846 8270D BY SIM
JC24978-6	**EB072816**					
Naphthalene		0.417	0.11	0.031	ug/l	SW846 8270D BY SIM

Sample Results

Report of Analysis

SGS Accutest

Report of Analysis

Client Sample ID:	OSMS-2D		
Lab Sample ID:	JC24978-1	**Date Sampled:**	07/28/16
Matrix:	AQ - Ground Water	**Date Received:**	07/30/16
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	2M85994.D	1	07/31/16	KLS	07/30/16	OP95939A	E2M3807
Run #2	3M63395.D	1	08/02/16	SG	07/30/16	OP95939A	E3M3004

	Initial Volume	Final Volume
Run #1	910 ml	1.0 ml
Run #2	910 ml	1.0 ml

CAS No.	Compound	Result	RL	MDL	Units	Q
91-20-3	Naphthalene	ND [a]	0.11	0.032	ug/l	
123-91-1	1,4-Dioxane	14.4	1.1	0.054	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	71%	69%	24-125%
321-60-8	2-Fluorobiphenyl	69%	63%	19-127%
1718-51-0	Terphenyl-d14	77%	58%	10-119%

(a) Result is from Run# 2

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

SGS Accutest

Report of Analysis

Client Sample ID:	OSMW-2S		
Lab Sample ID:	JC24978-2	**Date Sampled:**	07/28/16
Matrix:	AQ - Ground Water	**Date Received:**	07/30/16
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	2M85995.D	1	07/31/16	KLS	07/30/16	OP95939A	E2M3807
Run #2	3M63396.D	1	08/02/16	SG	07/30/16	OP95939A	E3M3004

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

CAS No.	Compound	Result	RL	MDL	Units	Q
91-20-3	Naphthalene	ND [a]	0.11	0.031	ug/l	
123-91-1	1,4-Dioxane	16.4	1.1	0.051	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	77%	72%	24-125%
321-60-8	2-Fluorobiphenyl	77%	65%	19-127%
1718-51-0	Terphenyl-d14	66%	50%	10-119%

(a) Result is from Run# 2

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

SGS Accutest

Report of Analysis

Client Sample ID:	OSMW-2SD		
Lab Sample ID:	JC24978-3	**Date Sampled:**	07/28/16
Matrix:	AQ - Ground Water	**Date Received:**	07/30/16
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	2M85996.D	1	07/31/16	KLS	07/30/16	OP95939A	E2M3807
Run #2	3M63397.D	1	08/02/16	SG	07/30/16	OP95939A	E3M3004

	Initial Volume	Final Volume
Run #1	930 ml	1.0 ml
Run #2	930 ml	1.0 ml

CAS No.	Compound	Result	RL	MDL	Units	Q
91-20-3	Naphthalene	ND [a]	0.11	0.032	ug/l	
123-91-1	1,4-Dioxane	14.7	1.1	0.052	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	67%	59%	24-125%
321-60-8	2-Fluorobiphenyl	64%	58%	19-127%
1718-51-0	Terphenyl-d14	59%	47%	10-119%

(a) Result is from Run# 2

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

SGS Accutest

Report of Analysis

Client Sample ID:	OSMW-1D		
Lab Sample ID:	JC24978-4	**Date Sampled:**	07/29/16
Matrix:	AQ - Ground Water	**Date Received:**	07/30/16
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	3M63398.D	1	08/02/16	SG	07/30/16	OP95939A	E3M3004
Run #2	2M86034.D	40	08/01/16	AN	07/30/16	OP95939A	E2M3808

	Initial Volume	Final Volume
Run #1	930 ml	1.0 ml
Run #2	930 ml	1.0 ml

CAS No.	Compound	Result	RL	MDL	Units	Q
91-20-3	Naphthalene	ND	0.11	0.032	ug/l	
123-91-1	1,4-Dioxane	1290 [a]	43	2.1	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	69%	87%	24-125%
321-60-8	2-Fluorobiphenyl	68%	95%	19-127%
1718-51-0	Terphenyl-d14	65%	91%	10-119%

(a) Result is from Run# 2

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

SGS Accutest

Report of Analysis

Client Sample ID:	OSMW-1S		
Lab Sample ID:	JC24978-5	**Date Sampled:**	07/29/16
Matrix:	AQ - Ground Water	**Date Received:**	07/30/16
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	3M63399.D	1	08/02/16	SG	07/30/16	OP95939A	E3M3004
Run #2	2M86035.D	20	08/01/16	AN	07/30/16	OP95939A	E2M3808

	Initial Volume	Final Volume
Run #1	980 ml	1.0 ml
Run #2	980 ml	1.0 ml

CAS No.	Compound	Result	RL	MDL	Units	Q
91-20-3	Naphthalene	ND	0.10	0.030	ug/l	
123-91-1	1,4-Dioxane	1060 [a]	20	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	56%	78%	24-125%
321-60-8	2-Fluorobiphenyl	55%	85%	19-127%
1718-51-0	Terphenyl-d14	64%	91%	10-119%

(a) Result is from Run# 2

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

SGS Accutest

Report of Analysis

Client Sample ID:	EB072816		
Lab Sample ID:	JC24978-6	**Date Sampled:**	07/28/16
Matrix:	AQ - Equipment Blank	**Date Received:**	07/30/16
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	3P55423.D	1	08/02/16	AD	07/30/16	OP95939A	E3P2534
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	0.417	0.11	0.031	ug/l	
123-91-1	1,4-Dioxane	ND	0.11	0.051	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	70%		24-125%
321-60-8	2-Fluorobiphenyl	59%		19-127%
1718-51-0	Terphenyl-d14	59%		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

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

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

ACCUTEST LABORATORIES

GW

CHAIN OF CUSTODY

PAGE 1 OF 1

NJ

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

809862883431

Bottle Order Control # JC24978

Accutest Quote #

Accutest Job # Get from NJ

Client / Reporting Information

Company Name: Anderson Mulholland & Associates
Street Address: 2700 Westchester Avenue, Suite 417
City / State / Zip: Purchase NY 10577
Project Contact: Terry Taylor
E-mail:
Phone #: 914-251-0400
Fax #:
Sampler(s) Name(s): N. Rivera, R. Stuart, R. O'Reilly, T. Taylor
Phone #:

Project Information

Project Name: BMSMC Phase 2A Release Assessment
Street:
City / State: Humacao PR
Project #: 02I
Client Purchase Order #:
Project Manager: Terry Taylor

Billing Information (If different from Report to)
Company Name:
Street Address:
City / State / Zip:
Attention:

Requested Analysis (see TEST CODE sheet)

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

Accutest Sample #	Field ID / Point of Collection	MEOH/DI Vial #	Collection Date	Collection Time	Sampled by	Matrix	# of bottles	HCl	NaOH	HNO3	H2SO4	NONE	DI Water	MEOH	ENCORE	1,4-Dioxane and Naphthalene via 8270D SIM	LAB USE ONLY
1	OSMW-2D		7-28-16	1545	NR	GW	2					2				X	
2	OSMW-2S		7-28-16	1718	NR	GW	2					2				X	F88
3	OSMW-2SD		7-28-16	1730	NR	GW	2					2				X	
4	OSMW-1D		7-29-16	1048	JD	GW	2					2				X	
5	OSMW-1S		7-29-16	1150	JD	GW	2					2				X	
6	EB072816		7-28-16	1132	NR	EB	2					2				X	

Number of preserved Bottles

Turnaround Time (Business days)

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

Emergency & Rush T/A data available VIA Lablink

Approved By (Accutest PM): / Date:

Data Deliverable Information

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

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

Comments / Special Instructions

INITIAL ASESSMENT 3A Dam

LABEL VERIFICATION JK

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	7-29-16 1700	1 Fed EX	2 FX	7/30/16 10:20	2
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 # 224, 225 [ ] Intact [ ] Not intact	Preserved where applicable [ ]	On Ice [✓] Cooler Temp. 2.5°C-0 3.1°C

5.1

5

JC24978: Chain of Custody
Page 1 of 2

SGS Accutest Sample Receipt Summary

Job Number: JC24978 **Client:** _____ **Project:** _____

Date / Time Received: 7/30/2016 10:20:00 AM **Delivery Method:** _____ **Airbill #'s:** _____

Cooler Temps (Raw Measured) °C: Cooler 1: (2.5); Cooler 2: (3.1);

Cooler Temps (Corrected) °C: Cooler 1: (3.4); Cooler 2: (4.0);

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:	2		

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

JC24978: Chain of Custody
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Internal Sample Tracking Chronicle

Anderson, Mulholland & Associates

Job No: JC24978

BMSMC, Building 5 Area, PR
Project No: 02i

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
JC24978-1 OSMS-2D	Collected: 28-JUL-16 15:45 By: NR		Received: 30-JUL-16 By: DG			
JC24978-1	SW846 8270D BY SIM	31-JUL-16 14:00	KLS	30-JUL-16	AD	B8270SIM14DIOX
JC24978-1	SW846 8270D BY SIM	02-AUG-16 13:04	SG	30-JUL-16	AD	BSIM + NAP
JC24978-2 OSMW-2S	Collected: 28-JUL-16 17:18 By: NR		Received: 30-JUL-16 By: DG			
JC24978-2	SW846 8270D BY SIM	31-JUL-16 14:26	KLS	30-JUL-16	AD	B8270SIM14DIOX
JC24978-2	SW846 8270D BY SIM	02-AUG-16 13:37	SG	30-JUL-16	AD	BSIM + NAP
JC24978-3 OSMW-2SD	Collected: 28-JUL-16 17:30 By: NR		Received: 30-JUL-16 By: DG			
JC24978-3	SW846 8270D BY SIM	31-JUL-16 14:52	KLS	30-JUL-16	AD	B8270SIM14DIOX
JC24978-3	SW846 8270D BY SIM	02-AUG-16 14:10	SG	30-JUL-16	AD	BSIM + NAP
JC24978-4 OSMW-1D	Collected: 29-JUL-16 10:48 By: JD		Received: 30-JUL-16 By: DG			
JC24978-4	SW846 8270D BY SIM	01-AUG-16 17:22	AN	30-JUL-16	AD	B8270SIM14DIOX
JC24978-4	SW846 8270D BY SIM	02-AUG-16 14:43	SG	30-JUL-16	AD	BSIM + NAP
JC24978-5 OSMW-1S	Collected: 29-JUL-16 11:50 By: JD		Received: 30-JUL-16 By: DG			
JC24978-5	SW846 8270D BY SIM	01-AUG-16 17:48	AN	30-JUL-16	AD	B8270SIM14DIOX
JC24978-5	SW846 8270D BY SIM	02-AUG-16 15:16	SG	30-JUL-16	AD	BSIM + NAP
JC24978-6 EB072816	Collected: 28-JUL-16 11:32 By: NR		Received: 30-JUL-16 By: DG			
JC24978-6	SW846 8270D BY SIM	02-AUG-16 14:08	AD	30-JUL-16	AD	B8270SIM14DIOX,BSIM + NAP

SGS Accutest Internal Chain of Custody

Job Number: JC24978
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR
Received: 07/30/16

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JC24978-1.1	Secured Storage	Allan Chung-yew	07/30/16 12:58	Retrieve from Storage
JC24978-1.1	Allan Chung-yew		07/30/16 13:23	Depleted
JC24978-1.1.1	Allan Chung-yew	Organics Prep	07/30/16 12:58	Extract from JC24978-1.1
JC24978-1.1.1	Organics Prep	Allan Chung-yew	07/30/16 15:17	Extract from JC24978-1.1
JC24978-1.1.1	Allan Chung-yew	Extract Storage	07/30/16 15:17	Return to Storage
JC24978-1.1.1	Extract Storage	Kristi Schollenberger	07/31/16 13:21	Retrieve from Storage
JC24978-1.1.1	Kristi Schollenberger	GCMS2M	07/31/16 13:21	Load on Instrument
JC24978-1.1.1	GCMS2M	Ashley Noble	08/01/16 10:32	Unload from Instrument
JC24978-1.1.1	Ashley Noble	Extract Freezer	08/01/16 10:32	Return to Storage
JC24978-2.1	Secured Storage	Allan Chung-yew	07/30/16 12:58	Retrieve from Storage
JC24978-2.1	Allan Chung-yew		07/30/16 13:23	Depleted
JC24978-2.1.1	Allan Chung-yew	Organics Prep	07/30/16 12:58	Extract from JC24978-2.1
JC24978-2.1.1	Organics Prep	Allan Chung-yew	07/30/16 15:17	Extract from JC24978-2.1
JC24978-2.1.1	Allan Chung-yew	Extract Storage	07/30/16 15:17	Return to Storage
JC24978-2.1.1	Extract Storage	Kristi Schollenberger	07/31/16 13:21	Retrieve from Storage
JC24978-2.1.1	Kristi Schollenberger	GCMS2M	07/31/16 13:21	Load on Instrument
JC24978-2.1.1	GCMS2M	Ashley Noble	08/01/16 10:32	Unload from Instrument
JC24978-2.1.1	Ashley Noble	Extract Freezer	08/01/16 10:32	Return to Storage
JC24978-3.1	Secured Storage	Allan Chung-yew	07/30/16 12:58	Retrieve from Storage
JC24978-3.1	Allan Chung-yew		07/30/16 13:23	Depleted
JC24978-3.1.1	Allan Chung-yew	Organics Prep	07/30/16 12:58	Extract from JC24978-3.1
JC24978-3.1.1	Organics Prep	Allan Chung-yew	07/30/16 15:17	Extract from JC24978-3.1
JC24978-3.1.1	Allan Chung-yew	Extract Storage	07/30/16 15:17	Return to Storage
JC24978-3.1.1	Extract Storage	Kristi Schollenberger	07/31/16 13:21	Retrieve from Storage
JC24978-3.1.1	Kristi Schollenberger	GCMS2M	07/31/16 13:21	Load on Instrument
JC24978-3.1.1	GCMS2M	Ashley Noble	08/01/16 10:32	Unload from Instrument
JC24978-3.1.1	Ashley Noble	Extract Freezer	08/01/16 10:32	Return to Storage
JC24978-4.1	Secured Storage	Allan Chung-yew	07/30/16 12:58	Retrieve from Storage
JC24978-4.1	Allan Chung-yew		07/30/16 13:23	Depleted
JC24978-4.1.1	Allan Chung-yew	Organics Prep	07/30/16 12:58	Extract from JC24978-4.1
JC24978-4.1.1	Organics Prep	Allan Chung-yew	07/30/16 15:17	Extract from JC24978-4.1
JC24978-4.1.1	Allan Chung-yew	Extract Storage	07/30/16 15:17	Return to Storage
JC24978-4.1.1	Extract Storage	Kristi Schollenberger	07/31/16 13:21	Retrieve from Storage
JC24978-4.1.1	Kristi Schollenberger	GCMS2M	07/31/16 13:21	Load on Instrument
JC24978-4.1.1	GCMS2M	Ashley Noble	08/01/16 10:32	Unload from Instrument
JC24978-4.1.1	Ashley Noble	Extract Freezer	08/01/16 10:32	Return to Storage

SGS Accutest Internal Chain of Custody

Job Number: JC24978
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR
Received: 07/30/16

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JC24978-5.1	Secured Storage	Allan Chung-yew	07/30/16 12:58	Retrieve from Storage
JC24978-5.1	Allan Chung-yew		07/30/16 13:23	Depleted
JC24978-5.1.1	Allan Chung-yew	Organics Prep	07/30/16 12:58	Extract from JC24978-5.1
JC24978-5.1.1	Organics Prep	Allan Chung-yew	07/30/16 15:17	Extract from JC24978-5.1
JC24978-5.1.1	Allan Chung-yew	Extract Storage	07/30/16 15:17	Return to Storage
JC24978-5.1.1	Extract Storage	Kristi Schollenberger	07/31/16 13:21	Retrieve from Storage
JC24978-5.1.1	Kristi Schollenberger	GCMS2M	07/31/16 13:21	Load on Instrument
JC24978-5.1.1	GCMS2M	Ashley Noble	08/01/16 10:32	Unload from Instrument
JC24978-5.1.1	Ashley Noble	Extract Freezer	08/01/16 10:32	Return to Storage
JC24978-6.1	Secured Storage	Allan Chung-yew	07/30/16 12:58	Retrieve from Storage
JC24978-6.1	Allan Chung-yew		07/30/16 13:23	Depleted
JC24978-6.1.1	Allan Chung-yew	Organics Prep	07/30/16 12:58	Extract from JC24978-6.1
JC24978-6.1.1	Organics Prep	Allan Chung-yew	07/30/16 15:17	Extract from JC24978-6.1
JC24978-6.1.1	Allan Chung-yew	Extract Storage	07/30/16 15:17	Return to Storage
JC24978-6.1.1	Extract Storage	Kristi Schollenberger	07/31/16 13:21	Retrieve from Storage
JC24978-6.1.1	Kristi Schollenberger	GCMS2M	07/31/16 13:21	Load on Instrument
JC24978-6.1.1	GCMS2M	Ashley Noble	08/01/16 10:32	Unload from Instrument
JC24978-6.1.1	Ashley Noble	Extract Freezer	08/01/16 10:32	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: JC24978
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP95939A-MB1	3M63393.D	1	08/02/16	SG	07/30/16	OP95939A	E3M3004

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

JC24978-1, JC24978-2, JC24978-3, JC24978-4, JC24978-5, JC24978-6

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	21%	14-81%
4165-62-2	Phenol-d5	17%	11-54%
118-79-6	2,4,6-Tribromophenol	42%	35-145%
4165-60-0	Nitrobenzene-d5	57%	24-125%
321-60-8	2-Fluorobiphenyl	54%	19-127%
1718-51-0	Terphenyl-d14	72%	10-119%

Method Blank Summary

Job Number: JC24978
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP95939A-MB1	3P55421.D	1	08/02/16	AD	07/30/16	OP95939A	E3P2534

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

JC24978-1, JC24978-2, JC24978-3, JC24978-4, JC24978-5, JC24978-6

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	27%	14-81%
4165-62-2	Phenol-d5	21%	11-54%
118-79-6	2,4,6-Tribromophenol	65%	35-145%
4165-60-0	Nitrobenzene-d5	60%	24-125%
321-60-8	2-Fluorobiphenyl	46%	19-127%
1718-51-0	Terphenyl-d14	61%	10-119%

Blank Spike Summary

Job Number: JC24978
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP95939A-BS12	3P55422.D	1	08/02/16	AD	07/30/16	OP95939A	E3P2534

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

JC24978-1, JC24978-2, JC24978-3, JC24978-4, JC24978-5, JC24978-6

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
91-20-3	Naphthalene	1	0.470	47	40-119
123-91-1	1,4-Dioxane	1	0.475	48	20-160

CAS No.	Surrogate Recoveries	BSP	Limits
367-12-4	2-Fluorophenol	33%	14-81%
4165-62-2	Phenol-d5	25%	11-54%
118-79-6	2,4,6-Tribromophenol	67%	35-145%
4165-60-0	Nitrobenzene-d5	57%	24-125%
321-60-8	2-Fluorobiphenyl	44%	19-127%
1718-51-0	Terphenyl-d14	60%	10-119%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JC24978
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP95939A-MS	3P55591.D	1	08/09/16	AD	07/30/16	OP95939A	E3P2546
OP95939A-MSD	3P55592.D	1	08/09/16	AD	07/30/16	OP95939A	E3P2546
JC24878-2	3P55550.D	1	08/06/16	SG	07/30/16	OP95939A	E3P2541

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

JC24978-1, JC24978-2, JC24978-3, JC24978-4, JC24978-5, JC24978-6

CAS No.	Compound	JC24878-2 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	0.176		2	1.08	45	2	1.06	44	2	23-140/36
123-91-1	1,4-Dioxane	ND		2	0.880	44	2	0.576	29	42* [a]	20-160/30

CAS No.	Surrogate Recoveries	MS	MSD	JC24878-2	Limits
367-12-4	2-Fluorophenol	39%	37%	29%	14-81%
4165-62-2	Phenol-d5	33%	33%	22%	11-54%
118-79-6	2,4,6-Tribromophenol	93%	90%	82%	35-145%
4165-60-0	Nitrobenzene-d5	56%	53%	57%	24-125%
321-60-8	2-Fluorobiphenyl	60%	76%	57%	19-127%
1718-51-0	Terphenyl-d14	78%	72%	51%	10-119%

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

* = Outside of Control Limits.

Instrument Performance Check (DFTPP)

Job Number: JC24978
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample: E2M3789-DFTPP
Lab File ID: 2M85679.D
Instrument ID: GCMS2M
Injection Date: 07/20/16
Injection Time: 10:11

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	12874	54.9		Pass
68	Less than 2.0% of mass 69	180	0.77	(1.68) [a]	Pass
69	Mass 69 relative abundance	10732	45.8		Pass
70	Less than 2.0% of mass 69	55	0.23	(0.51) [a]	Pass
127	40.0 - 60.0% of mass 198	13400	57.1		Pass
197	Less than 1.0% of mass 198	58	0.25		Pass
198	Base peak, 100% relative abundance	23456	100.0		Pass
199	5.0 - 9.0% of mass 198	1595	6.80		Pass
275	10.0 - 30.0% of mass 198	5291	22.6		Pass
365	1.0 - 100.0% of mass 198	669	2.85		Pass
441	Present, but less than mass 443	2492	10.6	(72.2) [b]	Pass
442	40.0 - 100.0% of mass 198	17560	74.9		Pass
443	17.0 - 23.0% of mass 442	3452	14.7	(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
E2M3789-IC3789	2M85680.D	07/20/16	10:24	00:13	Initial cal 1
E2M3789-IC3789	2M85681.D	07/20/16	10:50	00:39	Initial cal 100
E2M3789-IC3789	2M85682.D	07/20/16	11:48	01:37	Initial cal 2
E2M3789-IC3789	2M85683.D	07/20/16	12:14	02:03	Initial cal 5
E2M3789-IC3789	2M85684.D	07/20/16	12:40	02:29	Initial cal 10
E2M3789-IC3789	2M85685.D	07/20/16	13:06	02:55	Initial cal 25
E2M3789-ICC3789	2M85686.D	07/20/16	13:31	03:20	Initial cal 50
E2M3789-IC3789	2M85687.D	07/20/16	13:57	03:46	Initial cal 80

Instrument Performance Check (DFTPP)

Job Number: JC24978
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample: E2M3790-DFTPP
Lab File ID: 2M85688.D
Instrument ID: GCMS2M
Injection Date: 07/20/16
Injection Time: 14:43

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	11905	54.4		Pass
68	Less than 2.0% of mass 69	186	0.85	(1.93) [a]	Pass
69	Mass 69 relative abundance	9662	44.2		Pass
70	Less than 2.0% of mass 69	29	0.13	(0.30) [a]	Pass
127	40.0 - 60.0% of mass 198	12545	57.3		Pass
197	Less than 1.0% of mass 198	64	0.29		Pass
198	Base peak, 100% relative abundance	21875	100.0		Pass
199	5.0 - 9.0% of mass 198	1492	6.82		Pass
275	10.0 - 30.0% of mass 198	5220	23.9		Pass
365	1.0 - 100.0% of mass 198	748	3.42		Pass
441	Present, but less than mass 443	2528	11.6	(77.1) [b]	Pass
442	40.0 - 100.0% of mass 198	18057	82.5		Pass
443	17.0 - 23.0% of mass 442	3278	15.0	(18.2) [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
E2M3790-IC3790	2M85689.D	07/20/16	14:56	00:13	Initial cal 100
E2M3790-IC3790	2M85690.D	07/20/16	15:22	00:39	Initial cal 80
E2M3790-ICC3790	2M85691.D	07/20/16	15:48	01:05	Initial cal 50
E2M3790-IC3790	2M85692.D	07/20/16	16:14	01:31	Initial cal 25
E2M3790-IC3790	2M85693.D	07/20/16	16:40	01:57	Initial cal 10
E2M3790-IC3790	2M85694.D	07/20/16	17:06	02:23	Initial cal 5
E2M3790-IC3790	2M85695.D	07/20/16	17:32	02:49	Initial cal 2
E2M3790-IC3790	2M85696.D	07/20/16	17:58	03:15	Initial cal 1
E2M3790-ICV3790	2M85697.D	07/20/16	18:24	03:41	Initial cal verification 50
E2M3790-ICV3789	2M85698.D	07/20/16	18:50	04:07	Initial cal verification 50
E2M3790-ICV3789	2M85699.D	07/20/16	19:16	04:33	Initial cal verification 50

Instrument Performance Check (DFTPP)

Job Number: JC24978
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample: E2M3791-DFTPP
Lab File ID: 2M85701.D
Instrument ID: GCMS2M
Injection Date: 07/20/16
Injection Time: 21:38

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	11934	55.2		Pass
68	Less than 2.0% of mass 69	161	0.74	(1.63) [a]	Pass
69	Mass 69 relative abundance	9906	45.8		Pass
70	Less than 2.0% of mass 69	25	0.12	(0.25) [a]	Pass
127	40.0 - 60.0% of mass 198	12351	57.1		Pass
197	Less than 1.0% of mass 198	61	0.28		Pass
198	Base peak, 100% relative abundance	21624	100.0		Pass
199	5.0 - 9.0% of mass 198	1460	6.75		Pass
275	10.0 - 30.0% of mass 198	4993	23.1		Pass
365	1.0 - 100.0% of mass 198	666	3.08		Pass
441	Present, but less than mass 443	2462	11.4	(71.8) [b]	Pass
442	40.0 - 100.0% of mass 198	17010	78.7		Pass
443	17.0 - 23.0% of mass 442	3430	15.9	(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
E2M3791-IC3791	2M85702.D	07/20/16	21:50	00:12	Initial cal 100
E2M3791-IC3791	2M85703.D	07/20/16	22:16	00:38	Initial cal 80
E2M3791-ICC3791	2M85704.D	07/20/16	22:42	01:04	Initial cal 50
E2M3791-IC3791	2M85705.D	07/20/16	23:08	01:30	Initial cal 25
E2M3791-IC3791	2M85706.D	07/20/16	23:34	01:56	Initial cal 10
E2M3791-IC3791	2M85707.D	07/20/16	23:59	02:21	Initial cal 5
E2M3791-IC3791	2M85708.D	07/21/16	00:25	02:47	Initial cal 2
E2M3791-IC3791	2M85709.D	07/21/16	00:51	03:13	Initial cal 1
E2M3791-ICV3791	2M85710A.D	07/21/16	01:17	03:39	Initial cal verification 50
E2M3791-ICV3789	2M85710.D	07/21/16	01:17	03:39	Initial cal verification 50
E2M3791-ICV3789	2M85711.D	07/21/16	01:42	04:04	Initial cal verification 50
E2M3791-ICV3789	2M85712.D	07/21/16	02:08	04:30	Initial cal verification 50
E2M3791-ICV3789	2M85713.D	07/21/16	02:34	04:56	Initial cal verification 50
E2M3791-ICV3791	2M85714.D	07/21/16	03:00	05:22	Initial cal verification 50

Instrument Performance Check (DFTPP)

Job Number: JC24978
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample: E2M3792-DFTPP
Lab File ID: 2M85716.D
Instrument ID: GCMS2M
Injection Date: 07/21/16
Injection Time: 14:49

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	13060	55.4		Pass
68	Less than 2.0% of mass 69	148	0.63	(1.37) [a]	Pass
69	Mass 69 relative abundance	10780	45.8		Pass
70	Less than 2.0% of mass 69	54	0.23	(0.50) [a]	Pass
127	40.0 - 60.0% of mass 198	13543	57.5		Pass
197	Less than 1.0% of mass 198	0	0.00		Pass
198	Base peak, 100% relative abundance	23555	100.0		Pass
199	5.0 - 9.0% of mass 198	1592	6.76		Pass
275	10.0 - 30.0% of mass 198	5241	22.3		Pass
365	1.0 - 100.0% of mass 198	727	3.09		Pass
441	Present, but less than mass 443	2445	10.4	(71.1) [b]	Pass
442	40.0 - 100.0% of mass 198	16716	71.0		Pass
443	17.0 - 23.0% of mass 442	3438	14.6	(20.6) [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
E2M3792-ICV3791	2M85719.D	07/21/16	15:59	01:10	Initial cal verification 50

Instrument Performance Check (DFTPP)

Job Number: JC24978
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample: E2M3807-DFTPP
Lab File ID: 2M85989.D
Instrument ID: GCMS2M
Injection Date: 07/31/16
Injection Time: 12:04

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	17062	48.2		Pass
68	Less than 2.0% of mass 69	269	0.76	(1.83) [a]	Pass
69	Mass 69 relative abundance	14712	41.5		Pass
70	Less than 2.0% of mass 69	93	0.26	(0.63) [a]	Pass
127	40.0 - 60.0% of mass 198	20725	58.5		Pass
197	Less than 1.0% of mass 198	328	0.93		Pass
198	Base peak, 100% relative abundance	35434	100.0		Pass
199	5.0 - 9.0% of mass 198	2357	6.65		Pass
275	10.0 - 30.0% of mass 198	8240	23.3		Pass
365	1.0 - 100.0% of mass 198	1448	4.09		Pass
441	Present, but less than mass 443	3236	9.13	(75.2) [b]	Pass
442	40.0 - 100.0% of mass 198	22910	64.7		Pass
443	17.0 - 23.0% of mass 442	4301	12.1	(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
E2M3807-CC3789	2M85990.D	07/31/16	12:16	00:12	Continuing cal 50
E2M3807-CC3791	2M85991.D	07/31/16	12:42	00:38	Continuing cal 50
OP95939-MB1	2M85992.D	07/31/16	13:08	01:04	Method Blank
OP95939-BS1	2M85993.D	07/31/16	13:34	01:30	Blank Spike
JC24978-1	2M85994.D	07/31/16	14:00	01:56	OSMS-2D
JC24978-2	2M85995.D	07/31/16	14:26	02:22	OSMW-2S
JC24978-3	2M85996.D	07/31/16	14:52	02:48	OSMW-2SD
ZZZZZZ	2M86000.D	07/31/16	16:35	04:31	(unrelated sample)
JC24878-1	2M86002.D	07/31/16	17:27	05:23	(used for QC only; not part of job JC24978)
OP95939-MS	2M86003.D	07/31/16	17:53	05:49	Matrix Spike
OP95939-MSD	2M86004.D	07/31/16	18:19	06:15	Matrix Spike Duplicate
ZZZZZZ	2M86006.D	07/31/16	19:10	07:06	(unrelated sample)

Instrument Performance Check (DFTPP)

Job Number: JC24978
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample: E2M3808-DFTPP
Lab File ID: 2M86014.D
Instrument ID: GCMS2M
Injection Date: 08/01/16
Injection Time: 09:57

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	11044	50.1		Pass
68	Less than 2.0% of mass 69	141	0.64	(1.56) [a]	Pass
69	Mass 69 relative abundance	9055	41.1		Pass
70	Less than 2.0% of mass 69	87	0.40	(0.96) [a]	Pass
127	40.0 - 60.0% of mass 198	12352	56.1		Pass
197	Less than 1.0% of mass 198	82	0.37		Pass
198	Base peak, 100% relative abundance	22022	100.0		Pass
199	5.0 - 9.0% of mass 198	1443	6.55		Pass
275	10.0 - 30.0% of mass 198	4994	22.7		Pass
365	1.0 - 100.0% of mass 198	923	4.19		Pass
441	Present, but less than mass 443	2204	10.0	(87.9) [b]	Pass
442	40.0 - 100.0% of mass 198	13499	61.3		Pass
443	17.0 - 23.0% of mass 442	2508	11.4	(18.6) [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
E2M3808-CC3789	2M86015.D	08/01/16	10:17	00:20	Continuing cal 25
E2M3808-CC3791	2M86016.D	08/01/16	10:48	00:51	Continuing cal 25
OP94634-MB1	2M86017.D	08/01/16	11:21	01:24	Method Blank
ZZZZZZ	2M86018.D	08/01/16	11:46	01:49	(unrelated sample)
ZZZZZZ	2M86019.D	08/01/16	12:12	02:15	(unrelated sample)
ZZZZZZ	2M86022.D	08/01/16	13:04	03:07	(unrelated sample)
ZZZZZZ	2M86023.D	08/01/16	13:30	03:33	(unrelated sample)
ZZZZZZ	2M86024.D	08/01/16	13:55	03:58	(unrelated sample)
ZZZZZZ	2M86025.D	08/01/16	14:21	04:24	(unrelated sample)
ZZZZZZ	2M86026.D	08/01/16	14:47	04:50	(unrelated sample)
ZZZZZZ	2M86027.D	08/01/16	15:13	05:16	(unrelated sample)
OP95641-MB1	2M86032.D	08/01/16	16:30	06:33	Method Blank
JC24978-4	2M86034.D	08/01/16	17:22	07:25	OSMW-1D
JC24978-5	2M86035.D	08/01/16	17:48	07:51	OSMW-1S
ZZZZZZ	2M86036.D	08/01/16	19:31	09:34	(unrelated sample)

Instrument Performance Check (DFTPP)

Job Number: JC24978
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample: E3M2975-DFTPP
Lab File ID: 3M62949.D
Instrument ID: GCMS3M
Injection Date: 07/14/16
Injection Time: 09:30

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	93493	45.9		Pass
68	Less than 2.0% of mass 69	952	0.47	(0.96) [a]	Pass
69	Mass 69 relative abundance	99021	48.6		Pass
70	Less than 2.0% of mass 69	292	0.14	(0.29) [a]	Pass
127	40.0 - 60.0% of mass 198	104053	51.0		Pass
197	Less than 1.0% of mass 198	639	0.31		Pass
198	Base peak, 100% relative abundance	203896	100.0		Pass
199	5.0 - 9.0% of mass 198	14288	7.01		Pass
275	10.0 - 30.0% of mass 198	46742	22.9		Pass
365	1.0 - 100.0% of mass 198	7258	3.56		Pass
441	Present, but less than mass 443	26169	12.8	(77.8) [b]	Pass
442	40.0 - 100.0% of mass 198	174995	85.8		Pass
443	17.0 - 23.0% of mass 442	33633	16.5	(19.2) [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
E3M2975-IC2975	3M62950.D	07/14/16	10:23	00:53	Initial cal 0.2
E3M2975-IC2975	3M62951.D	07/14/16	10:55	01:25	Initial cal 0.1
E3M2975-IC2975	3M62952.D	07/14/16	11:28	01:58	Initial cal 0.05
E3M2975-IC2975	3M62953.D	07/14/16	12:01	02:31	Initial cal 0.02
E3M2975-IC2975	3M62954.D	07/14/16	12:34	03:04	Initial cal 0.01
E3M2975-IC2975	3M62955.D	07/14/16	13:07	03:37	Initial cal 5.0
E3M2975-IC2975	3M62956.D	07/14/16	13:40	04:10	Initial cal 2.5
E3M2975-ICC2975	3M62957.D	07/14/16	14:13	04:43	Initial cal 1.0
E3M2975-IC2975	3M62958.D	07/14/16	14:47	05:17	Initial cal 0.5

Instrument Performance Check (DFTPP)

Job Number: JC24978
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample: E3M2976-DFTPP
Lab File ID: 3M62961.D
Instrument ID: GCMS3M
Injection Date: 07/14/16
Injection Time: 17:04

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	95013	46.3		Pass
68	Less than 2.0% of mass 69	3	0.00	(0.00) [a]	Pass
69	Mass 69 relative abundance	96831	47.2		Pass
70	Less than 2.0% of mass 69	0	0.00	(0.00) [a]	Pass
127	40.0 - 60.0% of mass 198	109997	53.6		Pass
197	Less than 1.0% of mass 198	0	0.00		Pass
198	Base peak, 100% relative abundance	205083	100.0		Pass
199	5.0 - 9.0% of mass 198	13647	6.65		Pass
275	10.0 - 30.0% of mass 198	47211	23.0		Pass
365	1.0 - 100.0% of mass 198	8163	3.98		Pass
441	Present, but less than mass 443	27820	13.6	(76.4) [b]	Pass
442	40.0 - 100.0% of mass 198	184928	90.2		Pass
443	17.0 - 23.0% of mass 442	36390	17.7	(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
E3M2976-ICV2975	3M62962.D	07/14/16	17:18	00:14	Initial cal verification 1.0
E3M2976-ICV2975	3M62963.D	07/14/16	17:51	00:47	Initial cal verification 1.0

Instrument Performance Check (DFTPP)

Job Number: JC24978
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample: E3M3004-DFTPP
Lab File ID: 3M63390.D
Instrument ID: GCMS3M
Injection Date: 08/02/16
Injection Time: 10:56

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	172058	55.8		Pass
68	Less than 2.0% of mass 69	1530	0.50	(0.97) [a]	Pass
69	Mass 69 relative abundance	157016	50.9		Pass
70	Less than 2.0% of mass 69	1233	0.40	(0.79) [a]	Pass
127	40.0 - 60.0% of mass 198	183775	59.6		Pass
197	Less than 1.0% of mass 198	2113	0.69		Pass
198	Base peak, 100% relative abundance	308459	100.0		Pass
199	5.0 - 9.0% of mass 198	22647	7.34		Pass
275	10.0 - 30.0% of mass 198	80397	26.1		Pass
365	1.0 - 100.0% of mass 198	17502	5.67		Pass
441	Present, but less than mass 443	35098	11.4	(86.0) [b]	Pass
442	40.0 - 100.0% of mass 198	214451	69.5		Pass
443	17.0 - 23.0% of mass 442	40831	13.2	(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
E3M3004-CC2975	3M63391.D	08/02/16	11:08	00:12	Continuing cal 0.5
OP94535A-LB34	3M63392.D	08/02/16	11:46	00:50	Leachate Blank
OP95939A-MB1	3M63393.D	08/02/16	12:31	01:35	Method Blank
JC24978-1	3M63395.D	08/02/16	13:04	02:08	OSMS-2D
JC24978-2	3M63396.D	08/02/16	13:37	02:41	OSMW-2S
JC24978-3	3M63397.D	08/02/16	14:10	03:14	OSMW-2SD
JC24978-4	3M63398.D	08/02/16	14:43	03:47	OSMW-1D
JC24978-5	3M63399.D	08/02/16	15:16	04:20	OSMW-1S

Instrument Performance Check (DFTPP)

Job Number: JC24978
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample: E3P2503-DFTPP
Lab File ID: 3P54953.D
Instrument ID: GCMS3P
Injection Date: 07/06/16
Injection Time: 09:12

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	57126	38.2		Pass
68	Less than 2.0% of mass 69	1062	0.71	(1.70) [a]	Pass
69	Mass 69 relative abundance	62449	41.8		Pass
70	Less than 2.0% of mass 69	387	0.26	(0.62) [a]	Pass
127	40.0 - 60.0% of mass 198	72301	48.4		Pass
197	Less than 1.0% of mass 198	1015	0.68		Pass
198	Base peak, 100% relative abundance	149501	100.0		Pass
199	5.0 - 9.0% of mass 198	10162	6.80		Pass
275	10.0 - 30.0% of mass 198	33995	22.7		Pass
365	1.0 - 100.0% of mass 198	4170	2.79		Pass
441	Present, but less than mass 443	16547	11.1	(81.6) [b]	Pass
442	40.0 - 100.0% of mass 198	109091	73.0		Pass
443	17.0 - 23.0% of mass 442	20290	13.6	(18.6) [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
E3P2503-ICC2503	3P54955.D	07/06/16	10:32	01:20	Initial cal 1.0
E3P2503-IC2503	3P54956.D	07/06/16	11:26	02:14	Initial cal 0.01
E3P2503-IC2503	3P54957.D	07/06/16	11:57	02:45	Initial cal 0.02
E3P2503-IC2503	3P54958.D	07/06/16	12:28	03:16	Initial cal 0.05
E3P2503-IC2503	3P54959.D	07/06/16	12:59	03:47	Initial cal 0.1
E3P2503-IC2503	3P54960.D	07/06/16	13:30	04:18	Initial cal 0.2
E3P2503-IC2503	3P54961.D	07/06/16	14:02	04:50	Initial cal 5
E3P2503-IC2503	3P54962.D	07/06/16	14:33	05:21	Initial cal 2.5
E3P2503-IC2503	3P54963.D	07/06/16	15:04	05:52	Initial cal 0.5
E3P2503-ICV2503	3P54964.D	07/06/16	17:37	08:25	Initial cal verification 1.0
E3P2503-ICV2503	3P54965.D	07/06/16	18:08	08:56	Initial cal verification 1.0

Instrument Performance Check (DFTPP)

Job Number: JC24978
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample: E3P2534-DFTPP
Lab File ID: 3P55400.D
Instrument ID: GCMS3P
Injection Date: 08/02/16
Injection Time: 08:55

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	65780	37.2		Pass
68	Less than 2.0% of mass 69	834	0.47	(1.15) [a]	Pass
69	Mass 69 relative abundance	72656	41.1		Pass
70	Less than 2.0% of mass 69	253	0.14	(0.35) [a]	Pass
127	40.0 - 60.0% of mass 198	85875	48.6		Pass
197	Less than 1.0% of mass 198	1192	0.67		Pass
198	Base peak, 100% relative abundance	176699	100.0		Pass
199	5.0 - 9.0% of mass 198	12012	6.80		Pass
275	10.0 - 30.0% of mass 198	40499	22.9		Pass
365	1.0 - 100.0% of mass 198	5432	3.07		Pass
441	Present, but less than mass 443	20462	11.6	(78.8) [b]	Pass
442	40.0 - 100.0% of mass 198	137056	77.6		Pass
443	17.0 - 23.0% of mass 442	25979	14.7	(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
E3P2534-CC2503	3P55401.D	08/02/16	09:07	00:12	Continuing cal 1
ZZZZZZ	3P55402.D	08/02/16	09:45	00:50	(unrelated sample)
ZZZZZZ	3P55403A.D	08/02/16	10:51	01:56	(unrelated sample)
ZZZZZZ	3P55404.D	08/02/16	11:23	02:28	(unrelated sample)
ZZZZZZ	3P55405.D	08/02/16	11:56	03:01	(unrelated sample)
OP95939A-MB1	3P55421.D	08/02/16	13:02	04:07	Method Blank
OP95939A-BS12	3P55422.D	08/02/16	13:35	04:40	Blank Spike
JC24978-6	3P55423.D	08/02/16	14:08	05:13	EB072816
ZZZZZZ	3P55407.D	08/02/16	14:41	05:46	(unrelated sample)
OP95661A-MS	3P55408.D	08/02/16	15:13	06:18	Matrix Spike
OP95661A-MSD	3P55409.D	08/02/16	15:46	06:51	Matrix Spike Duplicate
OP95821A-MB1	3P55410.D	08/02/16	16:18	07:23	Method Blank
OP95821A-BS12	3P55411.D	08/02/16	16:51	07:56	Blank Spike
OP95821A-MS	3P55412.D	08/02/16	17:23	08:28	Matrix Spike
OP95821A-MSD	3P55413.D	08/02/16	17:56	09:01	Matrix Spike Duplicate
JC24549-20	3P55414.D	08/02/16	18:28	09:33	(used for QC only; not part of job JC24978)
ZZZZZZ	3P55415.D	08/02/16	19:00	10:05	(unrelated sample)
ZZZZZZ	3P55416.D	08/02/16	19:32	10:37	(unrelated sample)
ZZZZZZ	3P55418.D	08/02/16	20:35	11:40	(unrelated sample)

Instrument Performance Check (DFTPP)

Job Number: JC24978
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample: E3P2546-DFTPP
Lab File ID: 3P55585.D
Instrument ID: GCMS3P
Injection Date: 08/09/16
Injection Time: 14:26

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	77656	33.5		Pass
68	Less than 2.0% of mass 69	951	0.41	(1.09) [a]	Pass
69	Mass 69 relative abundance	87351	37.7		Pass
70	Less than 2.0% of mass 69	331	0.14	(0.38) [a]	Pass
127	40.0 - 60.0% of mass 198	109705	47.4		Pass
197	Less than 1.0% of mass 198	1219	0.53		Pass
198	Base peak, 100% relative abundance	231597	100.0		Pass
199	5.0 - 9.0% of mass 198	15096	6.52		Pass
275	10.0 - 30.0% of mass 198	55130	23.8		Pass
365	1.0 - 100.0% of mass 198	7983	3.45		Pass
441	Present, but less than mass 443	27961	12.1	(83.5) [b]	Pass
442	40.0 - 100.0% of mass 198	182904	79.0		Pass
443	17.0 - 23.0% of mass 442	33479	14.5	(18.3) [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
E3P2546-CC2503	3P55586.D	08/09/16	14:35	00:09	Continuing cal 0.5
OP96153A-MB1	3P55587.D	08/09/16	15:13	00:47	Method Blank
OP95939A-MS	3P55591.D	08/09/16	15:43	01:17	Matrix Spike
OP95939A-MSD	3P55592.D	08/09/16	16:14	01:48	Matrix Spike Duplicate
OP96072A-MB1	3P55593.D	08/09/16	16:45	02:19	Method Blank
ZZZZZZ	3P55588.D	08/09/16	17:15	02:49	(unrelated sample)
ZZZZZZ	3P55589.D	08/09/16	17:46	03:20	(unrelated sample)
ZZZZZZ	3P55590.D	08/09/16	18:16	03:50	(unrelated sample)

Semivolatile Internal Standard Area Summary

Job Number: JC24978
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Check Std:	E2M3807-CC3789	**Injection Date:**	07/31/16
Lab File ID:	2M85990.D	**Injection Time:**	12:16
Instrument ID:	GCMS2M	**Method:**	SW846 8270D BY SIM

	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	59184	4.70	238236	5.80	138576	7.87	220189	10.04	198933	14.22	193382	16.32
Upper Limit [a]	118368	5.20	476472	6.30	277152	8.37	440378	10.54	397866	14.72	386764	16.82
Lower Limit [b]	29592	4.20	119118	5.30	69288	7.37	110095	9.54	99467	13.72	96691	15.82

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
OP95939-MB1	73254	4.70	300423	5.79	172712	7.86	274936	10.03	188904	14.21	188743	16.32
OP95939-BS1	70787	4.70	287047	5.79	159811	7.87	241592	10.03	181739	14.21	168140	16.32
JC24978-1	75479	4.70	309629	5.79	175582	7.86	272153	10.03	190634	14.21	188578	16.32
JC24978-2	71781	4.70	295833	5.79	167187	7.86	264809	10.04	191351	14.21	186051	16.33
JC24978-3	73802	4.70	305884	5.79	174318	7.86	271689	10.03	195198	14.21	190116	16.32
ZZZZZZ	65495	4.70	274528	5.79	156544	7.86	250173	10.03	176643	14.21	174084	16.32
JC24878-1	65260	4.70	273175	5.79	153498	7.86	235592	10.03	155972	14.21	157027	16.32
OP95939-MS	67140	4.70	279086	5.79	151316	7.86	222732	10.03	160419	14.21	144471	16.32
OP95939-MSD	60586	4.70	249080	5.79	135128	7.86	206000	10.03	152602	14.21	138994	16.32
ZZZZZZ	63367	4.70	261014	5.79	146451	7.86	228321	10.03	163801	14.21	160867	16.32

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 Internal Standard Area Summary

Job Number: JC24978
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Check Std:	E2M3808-CC3789	**Injection Date:**	08/01/16
Lab File ID:	2M86015.D	**Injection Time:**	10:17
Instrument ID:	GCMS2M	**Method:**	SW846 8270D BY SIM

	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	55229	4.70	225003	5.79	131673	7.86	208473	10.03	184589	14.21	182218	16.32
Upper Limit [a]	110458	5.20	450006	6.29	263346	8.36	416946	10.53	369178	14.71	364436	16.82
Lower Limit [b]	27615	4.20	112502	5.29	65837	7.36	104237	9.53	92295	13.71	91109	15.82

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
OP94634-MB1	65979	4.70	259860	5.79	143437	7.85	220619	10.02	173898	14.20	168588	16.31
ZZZZZZ	59315	4.70	235570	5.79	128898	7.85	194919	10.02	153314	14.20	148333	16.31
ZZZZZZ	65186	4.70	255489	5.79	138335	7.85	212334	10.02	164248	14.20	160493	16.31
ZZZZZZ	55474	4.70	223607	5.79	129475	7.85	204595	10.02	166635	14.20	164214	16.31
ZZZZZZ	57304	4.70	230878	5.79	130208	7.85	209185	10.02	170208	14.20	172128	16.31
ZZZZZZ	58696	4.70	242701	5.79	139658	7.85	225298	10.02	180775	14.20	173044	16.32
ZZZZZZ	60419	4.70	242789	5.79	140970	7.85	220420	10.02	181785	14.20	188093	16.32
ZZZZZZ	47192	4.70	193825	5.79	111133	7.85	174200	10.02	144978	14.20	144143	16.31
ZZZZZZ	63565	4.70	264241	5.79	154166	7.85	244403	10.02	199183	14.20	201531	16.32
OP95641-MB1	55508	4.70	231906	5.79	133559	7.85	211998	10.02	176066	14.20	170218	16.31
JC24978-4	53472	4.70	212387	5.79	122454	7.85	197787	10.02	167423	14.20	171203	16.32
JC24978-5	53489	4.70	223481	5.79	128999	7.85	205704	10.02	171687	14.20	173910	16.31
ZZZZZZ	60169	4.70	249455	5.79	146540	7.86	231211	10.03	193646	14.21	185603	16.32

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 Internal Standard Area Summary

Job Number: JC24978
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Check Std:	E3M3004-CC2975	**Injection Date:**	08/02/16
Lab File ID:	3M63391.D	**Injection Time:**	11:08
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	360456	10.10	494837	13.11	824313	17.34	390331	21.98
Upper Limit [a]	720912	10.60	989674	13.61	1648626	17.84	780662	22.48
Lower Limit [b]	180228	9.60	247419	12.61	412157	16.84	195166	21.48

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT
OP94535A-LB34	378569	10.10	485627	13.11	823240	17.34	394948	21.98
OP95939A-MB1	419995	10.10	548385	13.11	844861	17.34	422043	21.98
JC24978-1	427925	10.10	597178	13.11	930669	17.34	464330	21.98
JC24978-2	436639	10.10	606328	13.11	948871	17.34	510458	21.98
JC24978-3	457243	10.10	594464	13.11	924670	17.34	556505	21.98
JC24978-4	441106	10.10	574569	13.11	878919	17.34	536776	21.98
JC24978-5	476858	10.10	624319	13.11	908886	17.34	612734	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.

Semivolatile Internal Standard Area Summary

Job Number: JC24978
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Check Std:	E3P2534-CC2503	**Injection Date:**	08/02/16
Lab File ID:	3P55401.D	**Injection Time:**	09:07
Instrument ID:	GCMS3P	**Method:**	SW846 8270D BY SIM

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT
Check Std	66646	10.77	111093	13.74	168107	17.91	123544	22.48
Upper Limit [a]	133292	11.27	222186	14.24	336214	18.41	247088	22.98
Lower Limit [b]	33323	10.27	55547	13.24	84054	17.41	61772	21.98

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT
ZZZZZZ	58687	10.77	87511	13.74	123527	17.91	93310	22.48
ZZZZZZ	54197	10.77	81138	13.74	123346	17.91	98662	22.48
ZZZZZZ	62780	10.77	94337	13.74	144608	17.91	115426	22.48
ZZZZZZ	55389	10.77	82802	13.74	127721	17.91	106767	22.48
OP95939A-MB1	73226	10.77	116523	13.74	172162	17.91	135242	22.48
OP95939A-BS12	84499	10.77	134429	13.74	203571	17.91	152660	22.48
JC24978-6	76093	10.77	117177	13.74	176774	17.91	136276	22.48
ZZZZZZ	65270	10.77	99899	13.74	138900	17.91	114281	22.48
OP95661A-MS	51406	10.77	80968	13.74	119493	17.91	93444	22.48
OP95661A-MSD	53427	10.77	87890	13.74	129846	17.91	100173	22.48
OP95821A-MB1	92943	10.77	146213	13.74	209158	17.91	164232	22.48
OP95821A-BS12	86698	10.77	140144	13.74	206236	17.91	155549	22.48
OP95821A-MS	48865	10.77	75993	13.74	117429	17.91	84086	22.48
OP95821A-MSD	74835	10.77	114730	13.74	179725	17.91	133570	22.48
JC24549-20	85664	10.77	131743	13.74	203173	17.91	157193	22.48
ZZZZZZ	80529	10.77	121952	13.74	178001	17.91	150445	22.48
ZZZZZZ	73522	10.77	119649	13.74	172165	17.91	141301	22.48
ZZZZZZ	73494	10.77	75148	13.74	133562	17.92	107589	22.48

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: JC24978
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Check Std:	E3P2546-CC2503	**Injection Date:**	08/09/16
Lab File ID:	3P55586.D	**Injection Time:**	14:35
Instrument ID:	GCMS3P	**Method:**	SW846 8270D BY SIM

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT
Check Std	93673	10.84	145013	13.81	237955	17.97	202189	22.53
Upper Limit [a]	187346	11.34	290026	14.31	475910	18.47	404378	23.03
Lower Limit [b]	46837	10.34	72507	13.31	118978	17.47	101095	22.03

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT
OP96153A-MB1	144294	10.84	229533	13.81	364839	17.97	327278	22.53
OP95939A-MS	128510	10.84	188202	13.80	288496	17.97	206649	22.53
OP95939A-MSD	112822	10.84	128021	13.80	212379	17.97	164417	22.53
OP96072A-MB1	161728	10.84	243689	13.80	339008	17.97	240256	22.53
ZZZZZZ	155361	10.84	248546	13.80	381240	17.97	311744	22.53
ZZZZZZ	116192	10.84	180152	13.80	292849	17.97	241326	22.53
ZZZZZZ	177130	10.84	257930	13.80	403198	17.97	237580	22.53

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 Surrogate Recovery Summary

Job Number: JC24978
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
JC24978-1	3M63395.D	69	63	58
JC24978-1	2M85994.D	71	69	77
JC24978-2	3M63396.D	72	65	50
JC24978-2	2M85995.D	77	77	66
JC24978-3	3M63397.D	59	58	47
JC24978-3	2M85996.D	67	64	59
JC24978-4	2M86034.D	87	95	91
JC24978-4	3M63398.D	69	68	65
JC24978-5	2M86035.D	78	85	91
JC24978-5	3M63399.D	56	55	64
JC24978-6	3P55423.D	70	59	59
OP95939A-BS12	3P55422.D	57	44	60
OP95939A-MB1	3P55421.D	60	46	61
OP95939A-MB1	3M63393.D	57	54	72
OP95939A-MS	3P55591.D	56	60	78
OP95939A-MSD	3P55592.D	53	76	72

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

Initial Calibration Summary

Job Number: JC24978 **Sample:** E2M3789-ICC3789
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 2M85686.D
Project: BMSMC, Building 5 Area, PR

Response Factor Report MS

Method : C:\MSDCHEM\1\METHODS\M2M3789.M (RTE Integrator)
Title : Semi Volatile GC/MS,rxi 5sil ms 30m .25mm .25um
Last Update : Thu Jul 21 17:43:16 2016
Response via : Initial Calibration

Calibration Files
2 =2m85682.D 5 =2m85683.D 25 =2m85685.D 80 =2m85687.D
100 =2m85681.D 50 =2m85686.D 1 =2m85680.D 10 =2m85684.D

Compound	2	5	25	80	100	50	1	10	Avg	%RSD
1) I 1,4-Dichlorobenzene-d	ISTD									
2) 1,4-Dioxane	0.767	0.709	0.678	0.669	0.690	0.681	0.970	0.703	0.733	13.70
3) Pyridine	1.921	1.740	1.726	1.766	1.817	1.797	1.706	1.769	1.780	3.79
4) N-Nitrosodim	1.064	0.997	0.990	0.985	1.026	1.008	0.960	1.007	1.005	3.07
5) 2-Fluorophen	1.420	1.405	1.367	1.371	1.407	1.411	1.352	1.425	1.395	1.98
6) Indene	3.025	2.957	2.621	2.127	1.932	2.434	2.918	2.839	2.607	15.64
7) Cumene	3.957	3.801	3.585	3.341	3.245	3.540	3.879	3.800	3.644	7.09
8) Phenol-d5	1.909	1.815	1.736	1.656	1.657	1.727	1.847	1.816	1.770	5.14
9) Phenol	2.261	2.232	2.122	1.951	1.846	2.081	2.083	2.248	2.103	7.03
10) Aniline	2.737	2.685	2.445	2.347	2.202	2.411	2.687	2.684	2.525	7.89
11) bis(2-Chloro	1.600	1.562	1.447	1.397	1.422	1.466	1.511	1.515	1.490	4.69
12) 2-Chlorophen	1.621	1.636	1.525	1.434	1.430	1.493	1.588	1.622	1.544	5.51
13) Decane	2.064	2.061	1.936	1.786	1.713	1.905	2.069	2.017	1.944	6.98
14) 1,3-Dichloro	1.757	1.715	1.573	1.458	1.445	1.540	1.697	1.693	1.610	7.57
15) 1,4-Dichloro	1.745	1.723	1.584	1.456	1.438	1.545	1.676	1.709	1.610	7.54
16) Benzyl alcoh	1.116	1.081	1.041	0.980	0.980	1.033	1.016	1.065	1.039	4.58
17) 1,2-Dichloro	1.635	1.640	1.477	1.337	1.315	1.427	1.592	1.604	1.503	8.85
18) Acetophenone	2.263	2.194	1.983	1.625	1.522	1.827	2.128	2.174	1.965	14.17
19) 2-Methylphen	1.526	1.520	1.368	1.121	1.028	1.273	1.412	1.513	1.345	14.11
20) 2,2'-oxybis(	2.637	2.527	2.386	2.109	1.995	2.310	2.639	2.494	2.387	9.94
21) 3&4-Methylph	1.625	1.585	1.427	1.143	1.050	1.318	1.523	1.579	1.406	15.38
22) n-Nitroso-di	1.179	1.111	1.013	0.798	0.749	0.906	1.059	1.109	0.990	15.83
23) Hexachloroet	0.477	0.484	0.455	0.429	0.427	0.448	0.470	0.481	0.459	4.97
24) I Naphthalene-d8	ISTD									
25) Nitrobenzene	0.396	0.375	0.361	0.347	0.340	0.359	0.380	0.368	0.366	4.90
26) Nitrobenzene	0.419	0.418	0.381	0.367	0.359	0.384	0.417	0.397	0.393	6.07
27) Quinoline	0.800	0.798	0.731	0.700	0.700	0.723	0.793	0.769	0.752	5.74
28) Isophorone	0.738	0.728	0.672	0.645	0.632	0.667	0.720	0.702	0.688	5.75
29) 2-Nitropheno	0.197	0.199	0.199	0.192	0.188	0.199	0.180	0.203	0.195	3.76
30) 2,4-Dimethyl	0.380	0.377	0.340	0.334	0.329	0.345	0.351	0.371	0.354	5.66
31) Benzoic acid		0.122	0.233	0.294	0.311	0.290		0.173	0.237	31.96
----- Quadratic regression ----- Coefficient = 0.9991										
Response Ratio = -0.02495 + 0.27879 *A + 0.01614 *A^2										
32) bis(2-Chloro	0.456	0.448	0.421	0.397	0.386	0.415	0.420	0.441	0.423	5.73
33) 2,4-Dichloro	0.308	0.305	0.288	0.267	0.265	0.282	0.274	0.303	0.287	6.04
34) 2,6-Dichloro	0.306	0.311	0.284	0.258	0.249	0.272	0.290	0.302	0.284	8.04
35) 1,3,5-Trichl	0.351	0.341	0.305	0.281	0.273	0.296	0.341	0.333	0.315	9.55
36) 1,2,4-Trichl	0.320	0.317	0.287	0.263	0.259	0.275	0.308	0.305	0.292	8.22
37) 1,2,3-Trichl	0.308	0.318	0.287	0.264	0.260	0.279	0.300	0.310	0.291	7.54
38) Naphthalene	1.199	1.160	1.046	0.948	0.918	1.010	1.154	1.135	1.071	9.88
39) 4-Chloroanil	0.515	0.520	0.470	0.430	0.411	0.454	0.493	0.516	0.476	8.78
40) 2,3-Dichloro	0.384	0.381	0.340	0.309	0.300	0.327	0.353	0.369	0.346	9.25
41) Caprolactam	0.185	0.185	0.185	0.186	0.185	0.188	0.180	0.183	0.185	1.31
42) Hexachlorobu	0.149	0.147	0.132	0.124	0.120	0.130	0.144	0.141	0.136	8.00

Initial Calibration Summary

Job Number: JC24978 **Sample:** E2M3789-ICC3789
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 2M85686.D
Project: BMSMC, Building 5 Area, PR

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43) 4-Chloro-3-m 0.319 0.318 0.312 0.300 0.297 0.312 0.292 0.327 0.310   3.88
44) 2-Methylnaph 0.685 0.679 0.605 0.554 0.533 0.587 0.639 0.648 0.616   9.08
45) 1-Methylnaph 0.685 0.667 0.611 0.549 0.530 0.587 0.659 0.640 0.616   9.20
46) Dimethylnaph 0.679 0.683 0.612 0.572 0.552 0.594 0.673 0.661 0.628   8.29

47) I   Acenaphthene-d10      ----------------ISTD---------------------
48) Hexachlorocy 0.156 0.191 0.239 0.244 0.228 0.251       0.227 0.220  15.49
49) 2,4,6-Trichl 0.338 0.334 0.319 0.306 0.297 0.314 0.319 0.334 0.320   4.58
50) 2,4,5-Trichl 0.352 0.366 0.340 0.340 0.338 0.349 0.325 0.361 0.346   3.84
51) 2-Fluorobiph 1.350 1.350 1.171 1.072 1.048 1.136 1.324 1.277 1.216  10.25
52) 2-Chloronaph 1.196 1.219 1.049 0.981 0.966 1.025 1.205 1.155 1.100   9.59
53) Biphenyl     1.740 1.685 1.461 1.322 1.282 1.408 1.672 1.621 1.524  11.66
54) 2-Nitroanili 0.367 0.383 0.375 0.380 0.376 0.387 0.352 0.384 0.376   3.04
55) Dimethylphth 1.307 1.307 1.157 1.113 1.108 1.158 1.274 1.242 1.208   6.95
56) Acenaphthyle 1.997 1.978 1.784 1.664 1.627 1.743 1.922 1.932 1.831   7.91
57) 2,6-Dinitrot 0.222 0.252 0.268 0.266 0.267 0.269 0.207 0.263 0.252   9.48
58) 3-Nitroanili 0.355 0.371 0.364 0.362 0.365 0.373 0.306 0.371 0.358   6.11
59) Acenaphthene 1.274 1.234 1.089 1.008 0.976 1.056 1.248 1.191 1.135  10.26
60) 2,4-Dinitrop 0.049 0.051 0.131 0.164 0.169 0.154       0.089 0.115  44.95
         ----- Quadratic regression -----                Coefficient =  0.9995
              Response Ratio = -0.02160 + 0.14626 *A + 0.00554 *A^2

61) 4-Nitropheno 0.133 0.127 0.139 0.160 0.159 0.155       0.130 0.143  10.17
62) Dibenzofuran 1.876 1.852 1.581 1.415 1.351 1.508 1.825 1.754 1.645  12.64
63) 2,4-Dinitrot 0.324 0.363 0.361 0.338 0.323 0.356 0.266 0.371 0.338  10.17
64) 2,3,4,6-Tetr 0.239 0.240 0.234 0.242 0.243 0.246 0.201 0.241 0.236   6.11
65) Diethylphtha 1.242 1.287 1.161 1.130 1.113 1.167 1.253 1.239 1.199   5.33
66) Fluorene     1.401 1.364 1.208 1.107 1.063 1.170 1.349 1.314 1.247  10.19
67) 4-Chlorophen 0.592 0.581 0.508 0.480 0.466 0.504 0.604 0.556 0.536   9.98
68) 4-Nitroanili 0.336 0.368 0.369 0.370 0.366 0.375 0.264 0.374 0.353  10.71

69) I   Phenanthrene-d10      ----------------ISTD---------------------
70) 4,6-Dinitro- 0.061 0.075 0.128 0.140 0.145 0.139       0.101 0.113  30.13
         ----- Quadratic regression -----                Coefficient =  0.9996
              Response Ratio = -0.00636 + 0.13565 *A + 0.00453 *A^2

71) n-Nitrosodip 0.600 0.585 0.534 0.500 0.503 0.526 0.587 0.566 0.550   7.16
72) 1,2-Diphenyl 0.913 0.898 0.831 0.791 0.769 0.831 0.835 0.872 0.842   5.90
73) 2,4,6-Tribro 0.082 0.084 0.082 0.084 0.086 0.086 0.068 0.084 0.082   7.25
74) 4-Bromopheny 0.194 0.185 0.171 0.164 0.166 0.171 0.188 0.177 0.177   6.18
75) Hexachlorobe 0.211 0.207 0.187 0.180 0.181 0.186 0.208 0.200 0.195   6.60
76) Pentachlorop 0.093 0.091 0.116 0.122 0.121 0.123 0.069 0.104 0.105  18.40
77) Phenanthrene 1.310 1.248 1.059 0.983 0.967 1.027 1.211 1.158 1.120  11.55
78) Anthracene   1.227 1.206 1.081 1.003 0.985 1.056 1.196 1.182 1.117   8.71
79) Carbazole    1.261 1.216 1.073 1.003 0.988 1.058 1.218 1.151 1.121   9.35
80) Di-n-butylph 1.370 1.327 1.282 1.228 1.216 1.285 1.274 1.308 1.286   3.91
81) Fluoranthene 1.192 1.155 1.047 0.994 0.993 1.036 1.136 1.110 1.083   6.98
82) Octadecane   0.667 0.645 0.616 0.575 0.551 0.609 0.653 0.634 0.619   6.40

83) I   Chrysene-d12          ----------------ISTD---------------------
84) Pyrene       1.542 1.548 1.392 1.321 1.317 1.343 1.513 1.478 1.432   6.95
85) Terphenyl-d1 0.855 0.835 0.790 0.785 0.788 0.787 0.849 0.838 0.816   3.81
86) Butylbenzylp 0.648 0.679 0.689 0.695 0.705 0.701 0.720 0.682 0.690   3.12
87) Benzo[a]anth 1.282 1.202 1.102 1.061 1.028 1.094 1.367 1.156 1.161  10.00
88) 3,3'-Dichlor 0.425 0.420 0.399 0.387 0.365 0.408 0.374 0.412 0.399   5.45
89) Chrysene     1.343 1.262 1.134 1.102 1.098 1.126 1.297 1.211 1.196   7.97
90) bis(2-Ethylh 0.969 0.959 0.947 0.941 0.951 0.957 1.213 0.939 0.984   9.44

91) I   Perylene-d12          ----------------ISTD---------------------
92) Di-n-octylph 1.581 1.606 1.627 1.621 1.566 1.673 1.687 1.638 1.625   2.55
```

Initial Calibration Summary

Job Number: JC24978 **Sample:** E2M3789-ICC3789
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 2M85686.D
Project: BMSMC, Building 5 Area, PR

93)	Benzo[b]fluo	1.327	1.245	1.139	1.147	1.086	1.144	1.273	1.211	1.196	6.79
94)	Benzo[k]fluo	1.263	1.240	1.138	1.038	0.968	1.121	1.244	1.219	1.154	9.32
95)	Benzo[a]pyre	1.111	1.108	1.025	1.012	0.981	1.035	1.148	1.086	1.063	5.48
96)	Indeno[1,2,3	1.062	1.065	0.987	1.053	1.049	1.033	1.034	1.037	1.040	2.36
97)	Dibenz(a,h)a	1.020	0.978	0.926	0.950	0.938	0.949	0.985	0.960	0.963	3.12
98)	Dibenz[a,h]a	1.163	1.132	1.063	1.057	1.041	1.074	1.114	1.102	1.093	3.82
99)	7,12-Dimethy	0.573	0.586	0.528	0.513	0.473	0.537	0.577	0.573	0.545	7.20
100)	Benzo[g,h,i]	1.158	1.110	1.069	1.073	1.055	1.076	1.147	1.109	1.100	3.45

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

M2M3789.M Thu Jul 21 17:44:31 2016

Initial Calibration Verification

Job Number: JC24978 **Sample:** E2M3790-ICV3789
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 2M85698.D
Project: BMSMC, Building 5 Area, PR

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\DATA\E2M3790\2m85698.D          Vial: 11
Acq On    : 20 Jul 2016   6:50 pm                    Operator: ashleyn
Sample    : icv3789-50                               Inst    : MS
Misc      : op95288,e2m3790                          Multiplr: 1.00
MS Integration Params: rteint.p

Method       : C:\MSDCHEM\1\METHODS\M2M3789.M (RTE Integrator)
Title        : Semi Volatile GC/MS,rxi 5sil ms 30m .25mm .25um
Last Update  : Thu Jul 21 17:43:16 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	121	0.00	4.78
9	t	Phenol	2.103	1.635	22.3	95	0.00	4.52
19	t	2-Methylphenol	1.345	1.199	10.9	114	0.00	4.98
21	t	3&4-Methylphenol	1.406	1.273	9.5	117	0.00	5.10
24	I	Naphthalene-d8	1.000	1.000	0.0	118	0.00	5.89
29	t	2-Nitrophenol	0.195	0.173	11.3	103	0.00	5.53
30	t	2,4-Dimethylphenol	0.354	0.315	11.0	108	0.00	5.56
		----------	True	Calc.	% Drift	----------		
31	t	Benzoic acid	50.000	39.217	21.6	86	0.00	5.68
		----------	AvgRF	CCRF	% Dev	----------		
33	t	2,4-Dichlorophenol	0.287	0.249	13.2	104	0.00	5.75
34	t	2,6-Dichlorophenol	0.284	0.243	14.4	106	0.00	5.97
43	t	4-Chloro-3-methylphenol	0.310	0.263	15.2	100	-0.01	6.48
47	I	Acenaphthene-d10	1.000	1.000	0.0	114	0.00	7.98
49	t	2,4,6-Trichlorophenol	0.320	0.290	9.4	105	0.00	7.00
50	t	2,4,5-Trichlorophenol	0.346	0.295	14.7	96	-0.01	7.04
		----------	True	Calc.	% Drift	----------		
60	t	2,4-Dinitrophenol	50.000	38.008	24.0	72	0.00	8.07
		----------	AvgRF	CCRF	% Dev	----------		
61	t	4-Nitrophenol	0.143	0.131	8.4	96	0.00	8.19
64		2,3,4,6-Tetrachlorophenol	0.236	0.207	12.3	96	0.00	8.45
69	I	Phenanthrene-d10	1.000	1.000	0.0	110	0.00	10.16
		----------	True	Calc.	% Drift	----------		
70	t	4,6-Dinitro-2-methylpheno	50.000	39.495	21.0	83	0.00	8.85
		----------	AvgRF	CCRF	% Dev	----------		
76	t	Pentachlorophenol	0.105	0.102	2.9	90	0.00	9.89

(#) = Out of Range SPCC's out = 0 CCC's out = 0
2m85704A.D M2M3789.M Thu Jul 21 17:49:58 2016

Initial Calibration Verification

Job Number: JC24978
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR
Sample: E2M3790-ICV3789
Lab FileID: 2M85699.D

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\DATA\E2M3790\2m85699.D          Vial: 12
Acq On    : 20 Jul 2016   7:16 pm                    Operator: ashleyn
Sample    : icv3789-50                               Inst    : MS
Misc      : op95288,e2m3790                          Multiplr: 1.00
MS Integration Params: rteint.p

Method       : C:\MSDCHEM\1\METHODS\M2M3789.M (RTE Integrator)
Title        : Semi Volatile GC/MS,rxi 5sil ms 30m .25mm .25um
Last Update  : Wed Jul 20 14:53:24 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	112	0.00	4.78
5	S	2-Fluorophenol	1.395	1.409	-1.0	112	0.00	3.80
8	S	Phenol-d5	1.770	1.721	2.8	112	0.00	4.51
24	I	Naphthalene-d8	1.000	1.000	0.0	108	0.00	5.89
25	S	Nitrobenzene-d5	0.366	0.365	0.3	109	0.00	5.23
47	I	Acenaphthene-d10	1.000	1.000	0.0	101	0.00	7.98
51	S	2-Fluorobiphenyl	1.216	1.217	-0.1	109	0.00	7.10
69	I	Phenanthrene-d10	1.000	1.000	0.0	97	0.00	10.16
73	S	2,4,6-Tribromophenol	0.082	0.088	-7.3	100	0.00	9.11
83	I	Chrysene-d12	1.000	1.000	0.0	90	-0.01	14.33
85	S	Terphenyl-d14	0.816	0.869	-6.5	99	0.00	12.71

(#) = Out of Range SPCC's out = 0 CCC's out = 0
2m85686.D M2M3789.M Thu Jul 21 10:55:32 2016

Initial Calibration Summary

Job Number: JC24978 **Sample:** E2M3791-ICC3791
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 2M85704.D
Project: BMSMC, Building 5 Area, PR

Response Factor Report MS

```
Method       : C:\MSDCHEM\1\METHODS\M2M3791.M (RTE Integrator)
Title        : Semi Volatile GC/MS,rxi 5sil ms 30m .25mm .25um
Last Update  : Thu Jul 21 11:50:56 2016
Response via : Initial Calibration

Calibration Files
2   =2m85708.D  5   =2m85707.D  25  =2m85705.D  80  =2m85703.D
100 =2m85702.D  50  =2m85704.D  1   =2m85709.D  10  =2m85706.D

 Compound          2     5     25    80    100   50    1     10    Avg %RSD
 ---------------------------------------------------------------------------
101)     1,4-Dichlorobenzene-d ----------------ISTD---------------------
102) Benzaldehyde 1.048 1.038 1.107 0.746 0.707 1.108 0.956 1.171 0.985  17.44

103)     Acenaphthene-d10a     ----------------ISTD---------------------
104) 1,2,4,5-Tetr 0.439 0.430 0.428 0.410 0.412 0.456 0.400 0.457 0.429   4.93

105)     Chrysene-d12a         ----------------ISTD---------------------
106) Benzidine    0.303 0.485 0.664 0.346 0.328 0.504       0.696 0.475  33.64
107) 1-chloroocta 0.296 0.350 0.457 0.447 0.447 0.514       0.456 0.424  17.54

108)     Phenanthrene-d10a     ----------------ISTD---------------------
109) Atrazine     0.059 0.075 0.092 0.093 0.094 0.100       0.092 0.086  16.49
110) o-terphenyl  0.402 0.432 0.444 0.441 0.429 0.470 0.385 0.475 0.435   6.98

111)     Naphthalene-d8a       ----------------ISTD---------------------
112) Hydroquinone       0.212 0.316 0.327 0.340 0.383       0.265 0.307  19.68


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

          M2M3789.M         Thu Jul 21 11:51:07 2016
```

Initial Calibration Verification

Job Number: JC24978 **Sample:** E2M3791-ICV3789
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 2M85710.D
Project: BMSMC, Building 5 Area, PR

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\DATA\E2M3791\2m85710.D          Vial: 10
Acq On    : 21 Jul 2016   1:17 am                    Operator: seanb1
Sample    : icv3789-50                               Inst    : MS
Misc      : op95288,e2m3791                          Multiplr: 1.00
MS Integration Params: rteint.p

Method       : C:\MSDCHEM\1\METHODS\M2M3789.M (RTE Integrator)
Title        : Semi Volatile GC/MS,rxi 5sil ms 30m .25mm .25um
Last Update  : Thu Jul 21 11:50:56 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	121	0.00	4.78
4	t	N-Nitrosodimethylamine	1.005	0.937	6.8	113	0.02	2.64
11	t	bis(2-Chloroethyl)ether	1.490	1.473	1.1	122	0.00	4.57
14	t	1,3-Dichlorobenzene	1.610	1.484	7.8	117	0.00	4.74
15	t	1,4-Dichlorobenzene	1.610	1.500	6.8	118	0.00	4.79
17	t	1,2-Dichlorobenzene	1.503	1.416	5.8	121	0.00	4.92
20	t	2,2'-oxybis(1-Chloropropa	2.387	2.252	5.7	118	0.00	4.99
22	t	n-Nitroso-di-n-propylamin	0.990	0.962	2.8	129	0.00	5.10
23	t	Hexachloroethane	0.459	0.437	4.8	119	0.00	5.19
24	I	Naphthalene-d8	1.000	1.000	0.0	116	0.00	5.89
26	t	Nitrobenzene	0.393	0.359	8.7	109	0.00	5.24
28	t	Isophorone	0.688	0.658	4.4	115	0.00	5.45
32	t	bis(2-Chloroethoxy)methan	0.423	0.412	2.6	115	0.00	5.64
36	t	1,2,4-Trichlorobenzene	0.292	0.275	5.8	116	0.00	5.84
38	t	Naphthalene	1.071	0.975	9.0	112	0.00	5.91
42	t	Hexachlorobutadiene	0.136	0.134	1.5	120	0.00	6.04
47	I	Acenaphthene-d10	1.000	1.000	0.0	109	0.00	7.98
48	t	Hexachlorocyclopentadiene	0.220	0.186	15.6	80	0.00	6.85
52	t	2-Chloronaphthalene	1.100	1.043	5.2	111	0.00	7.24
55	t	Dimethylphthalate	1.208	1.084	10.3	102	0.00	7.63
56	t	Acenaphthylene	1.831	1.647	10.0	103	0.00	7.78
57	t	2,6-Dinitrotoluene	0.252	0.237	6.0	96	0.00	7.70
59	t	Acenaphthene	1.135	1.040	8.4	107	0.00	8.02
63	t	2,4-Dinitrotoluene	0.338	0.299	11.5	92	0.00	8.26
65	t	Diethylphthalate	1.199	1.066	11.1	100	0.00	8.63
66	t	Fluorene	1.247	1.101	11.7	103	0.00	8.76
67	t	4-Chlorophenyl-phenylethe	0.536	0.491	8.4	106	0.00	8.77
69	I	Phenanthrene-d10	1.000	1.000	0.0	103	0.00	10.16
71	t	n-Nitrosodiphenylamine	0.550	0.503	8.5	98	0.00	8.95
72	t	1,2-Diphenylhydrazine	0.842	0.826	1.9	102	0.00	9.01
74	t	4-Bromophenyl-phenylether	0.177	0.171	3.4	103	0.00	9.50
75	t	Hexachlorobenzene	0.195	0.185	5.1	102	0.00	9.59
77	t	Phenanthrene	1.120	1.015	9.4	101	0.00	10.20
78	t	Anthracene	1.117	0.986	11.7	96	0.00	10.27
80	t	Di-n-butylphthalate	1.286	1.181	8.2	94	0.00	11.17
81	t	Fluoranthene	1.083	0.968	10.6	96	0.00	12.05
83	I	Chrysene-d12	1.000	1.000	0.0	95	0.00	14.34

Initial Calibration Verification

Job Number: JC24978 **Sample:** E2M3791-ICV3789
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 2M85710.D
Project: BMSMC, Building 5 Area, PR

84	t	Pyrene	1.432	1.359	5.1	96	0.00	12.40
86	t	Butylbenzylphthalate	0.690	0.654	5.2	88	0.00	13.54
87	t	Benzo[a]anthracene	1.161	1.038	10.6	90	0.00	14.32
89	t	Chrysene	1.196	1.043	12.8	88	0.00	14.38
90	t	bis(2-Ethylhexyl)phthalat	0.984	0.893	9.2	88	0.00	14.50
91	I	Perylene-d12	1.000	1.000	0.0	90	0.00	16.45
92	t	Di-n-octylphthalate	1.625	1.593	2.0	86	0.00	15.48
93	t	Benzo[b]fluoranthene	1.196	1.038	13.2	82	0.00	15.93
94	t	Benzo[k]fluoranthene	1.154	1.089	5.6	88	0.00	15.97
95	t	Benzo[a]pyrene	1.063	0.984	7.4	86	0.00	16.37
96	t	Indeno[1,2,3-cd]pyrene	1.040	0.915	12.0	80	0.00	18.02
98	t	Dibenz[a,h]anthracene	1.093	0.962	12.0	81	0.00	18.06
100	t	Benzo[g,h,i]perylene	1.100	0.959	12.8	80	-0.01	18.47

(#) = Out of Range SPCC's out = 0 CCC's out = 0
2m85704A.D M2M3789.M Thu Jul 21 11:57:33 2016

6.7.5

6

Initial Calibration Verification

Job Number: JC24978
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR
Sample: E2M3791-ICV3791
Lab FileID: 2M85710A.D

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\DATA\E2M3791\2m85710A.D         Vial: 10
Acq On    : 21 Jul 2016   1:17 am                    Operator: seanb1
Sample    : icv3791-50                               Inst    : MS
Misc      : op95288,e2m3791                          Multiplr: 1.00
MS Integration Params: rteint.p

Method       : C:\MSDCHEM\1\METHODS\M2M3789.M (RTE Integrator)
Title        : Semi Volatile GC/MS,rxi 5sil ms 30m .25mm .25um
Last Update  : Thu Jul 21 11:50:56 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	Acenaphthene-d10a	1.000	1.000	0.0	124	0.00	7.98
104	1,2,4,5-Tetrachlorobenzen	0.429	0.448	-4.4	122	0.00	6.86
105	Chrysene-d12a	1.000	1.000	0.0	107	0.01	14.34
106	Benzidine	0.475	0.367	22.7	78	0.00	12.31

(#) = Out of Range SPCC's out = 0 CCC's out = 0
2m85704A.D M2M3789.M Thu Jul 21 11:57:34 2016

Initial Calibration Verification

Job Number: JC24978 **Sample:** E2M3791-ICV3789
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 2M85711.D
Project: BMSMC, Building 5 Area, PR

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\DATA\E2M3791\2m85711.D          Vial: 11
Acq On    : 21 Jul 2016   1:42 am                    Operator: seanb1
Sample    : icv3789-50                               Inst    : MS
Misc      : op95288,e2m3791                          Multiplr: 1.00
MS Integration Params: rteint.p

Method       : C:\MSDCHEM\1\METHODS\M2M3789.M (RTE Integrator)
Title        : Semi Volatile GC/MS,rxi 5sil ms 30m .25mm .25um
Last Update  : Thu Jul 21 11:50:56 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	118	0.00	4.78
2	t	1,4-Dioxane	0.733	0.708	3.4	123	0.02	2.36
6	t	Indene	2.607	2.872	-10.2	139	0.00	4.99
7	t	Cumene	3.644	3.756	-3.1	125	0.00	4.19
13	t	Decane	1.944	2.101	-8.1	130	0.00	4.66
18	t	Acetophenone	1.965	2.166	-10.2	140	0.00	5.10
24	I	Naphthalene-d8	1.000	1.000	0.0	115	0.00	5.89
27	t	Quinoline	0.752	0.593	21.1	94	0.00	6.25
40	t	2,3-Dichloroaniline	0.346	0.258	25.4	91	0.00	6.99
41	t	Caprolactam	0.185	0.183	1.1	112	-0.03	6.31
45	t	1-Methylnaphthalene	0.616	0.617	-0.2	121	0.00	6.77
46	t	Dimethylnaphthalene	0.628	0.637	-1.4	123	0.00	7.42
47	I	Acenaphthene-d10	1.000	1.000	0.0	106	0.00	7.98
53	t	Biphenyl	1.524	1.626	-6.7	122	0.00	7.22
69	I	Phenanthrene-d10	1.000	1.000	0.0	102	0.00	10.16
82	t	Octadecane	0.619	0.715	-15.5	120	0.00	10.11
91	I	Perylene-d12	1.000	1.000	0.0	69	0.00	16.44
99	t	7,12-Dimethylbenz(a)anthr	0.545	0.697	-27.9	90	-0.01	15.92

```
(#) = Out of Range              SPCC's out = 0  CCC's out = 0
 2m85704A.D M2M3789.M        Thu Jul 21 12:02:09 2016
```

Initial Calibration Verification

Job Number: JC24978
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR
Sample: E2M3791-ICV3789
Lab FileID: 2M85712.D

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\E2M3791\2m85712.D Vial: 12
Acq On : 21 Jul 2016 2:08 am Operator: seanb1
Sample : icv3789-50 Inst : MS
Misc : op95288,e2m3791 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\MSDCHEM\1\METHODS\M2M3789.M (RTE Integrator)
Title : Semi Volatile GC/MS,rxi 5sil ms 30m .25mm .25um
Last Update : Thu Jul 21 11:50:56 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	110	0.00	4.78
3	t	Pyridine	1.780	1.723	3.2	106	0.10	2.77
10		Aniline	2.525	2.546	-0.8	117	0.00	4.54
16	t	Benzyl alcohol	1.039	1.041	-0.2	111	0.00	4.89
24	I	Naphthalene-d8	1.000	1.000	0.0	116	0.00	5.89
39	t	4-Chloroaniline	0.476	0.430	9.7	110	0.00	5.96
44	t	2-Methylnaphthalene	0.616	0.555	9.9	110	0.00	6.65
47	I	Acenaphthene-d10	1.000	1.000	0.0	113	0.00	7.98
54	t	2-Nitroaniline	0.376	0.344	8.5	101	0.00	7.38
58	t	3-Nitroaniline	0.358	0.316	11.7	96	0.00	7.93
62	t	Dibenzofuran	1.645	1.507	8.4	113	0.00	8.26
68	t	4-Nitroaniline	0.353	0.312	11.6	95	-0.01	8.80
69	I	Phenanthrene-d10	1.000	1.000	0.0	105	0.00	10.16
79	t	Carbazole	1.121	1.059	5.5	105	0.00	10.54

(#) = Out of Range SPCC's out = 0 CCC's out = 0
2m85704A.D M2M3789.M Thu Jul 21 12:04:39 2016

Initial Calibration Verification

Job Number: JC24978
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR
Sample: E2M3791-ICV3789
Lab FileID: 2M85713.D

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\DATA\E2M3791\2m85713.D          Vial: 13
Acq On    : 21 Jul 2016   2:34 am                    Operator: seanb1
Sample    : icv3789-50                               Inst    : MS
Misc      : op95288,e2m3791                          Multiplr: 1.00
MS Integration Params: rteint.p

Method       : C:\MSDCHEM\1\METHODS\M2M3789.M (RTE Integrator)
Title        : Semi Volatile GC/MS,rxi 5sil ms 30m .25mm .25um
Last Update  : Thu Jul 21 11:50:56 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	-0.01	14.33
88 t	3,3'-Dichlorobenzidine	0.399	0.391	2.0	104	0.00	14.32

(#) = Out of Range SPCC's out = 0 CCC's out = 0
2m85704A.D M2M3789.M Thu Jul 21 12:06:12 2016

Initial Calibration Verification

Job Number: JC24978
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR
Sample: E2M3791-ICV3791
Lab FileID: 2M85714.D

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\DATA\E2M3791\2m85714.D          Vial: 14
Acq On    : 21 Jul 2016   3:00 am                    Operator: seanb1
Sample    : icv3791-50                               Inst    : MS
Misc      : op95288,e2m3791                          Multiplr: 1.00
MS Integration Params: rteint.p

Method       : C:\MSDCHEM\1\METHODS\M2M3789.M (RTE Integrator)
Title        : Semi Volatile GC/MS,rxi 5sil ms 30m .25mm .25um
Last Update  : Thu Jul 21 11:50:56 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.
111	Naphthalene-d8a	1.000	1.000	0.0	129	0.00	5.89
112	Hydroquinone	0.307	0.338	-10.1	114	0.00	6.31

(#) = Out of Range SPCC's out = 0 CCC's out = 0
2m85704A.D M2M3789.M Thu Jul 21 12:07:23 2016

Initial Calibration Verification

Job Number: JC24978
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR
Sample: E2M3792-ICV3791
Lab FileID: 2M85719.D

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\DATA\E2M3792\2m85719.D          Vial: 4
Acq On    : 21 Jul 2016   3:59 pm                    Operator: ashleyn
Sample    : icv3791-50                               Inst    : MS
Misc      : op95288,e2m3792                          Multiplr: 1.00
MS Integration Params: rteint.p

Method       : C:\MSDCHEM\1\METHODS\M2M3789.M (RTE Integrator)
Title        : Semi Volatile GC/MS,rxi 5sil ms 30m .25mm .25um
Last Update  : Thu Jul 21 11:50:56 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	1,4-Dichlorobenzene-d4a	1.000	1.000	0.0	140	0.00	4.78
102	Benzaldehyde	0.985	0.990	-0.5	125	0.00	4.45
108	Phenanthrene-d10a	1.000	1.000	0.0	125	-0.01	10.15
109	Atrazine	0.086	0.099	-15.1	124	0.00	9.79

(#) = Out of Range SPCC's out = 0 CCC's out = 0
2m85704A.D M2M3789.M Thu Jul 21 16:22:46 2016

Continuing Calibration Summary

Job Number: JC24978 **Sample:** E2M3807-CC3789
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 2M85990.D
Project: BMSMC, Building 5 Area, PR

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\DATA\E2M3807\2m85990.D          Vial: 2
Acq On    : 31 Jul 2016  12:16 pm                    Operator: kristis
Sample    : cc3789-50                                Inst    : MS
Misc      : op95842,e2m3807,1000,,,1,1               Multiplr: 1.00
MS Integration Params: rteint.p

Method       : C:\MSDCHEM\1\METHODS\M2M3789.M (RTE Integrator)
Title        : Semi Volatile GC/MS,rxi 5sil ms 30m .25mm .25um
Last Update  : Thu Jul 28 23:07:38 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	71	-0.02	4.70
2	t	1,4-Dioxane	0.733	0.651	11.2	68	-0.06	2.25
3	t	Pyridine	1.780	1.720	3.4	68	-0.04	2.58
4	t	N-Nitrosodimethylamine	1.005	1.054	-4.9	75	-0.05	2.55
5	S	2-Fluorophenol	1.395	1.461	-4.7	74	-0.01	3.73
6	t	Indene	2.607	2.932	-12.5	86	-0.01	4.91
7	t	Cumene	3.644	4.067	-11.6	82	-0.02	4.10
8	S	Phenol-d5	1.770	1.883	-6.4	78	0.00	4.45
9	t	Phenol	2.103	2.245	-6.8	77	0.00	4.46
10		Aniline	2.525	2.059	18.5	61	0.00	4.46
11	t	bis(2-Chloroethyl)ether	1.490	1.660	-11.4	81	-0.02	4.50
12	t	2-Chlorophenol	1.544	1.677	-8.6	80	-0.01	4.55
13	t	Decane	1.944	2.229	-14.7	84	-0.02	4.58
14	t	1,3-Dichlorobenzene	1.610	1.717	-6.6	80	-0.02	4.66
15	t	1,4-Dichlorobenzene	1.610	1.768	-9.8	82	-0.02	4.71
16	t	Benzyl alcohol	1.039	1.098	-5.7	76	0.00	4.81
17	t	1,2-Dichlorobenzene	1.503	1.625	-8.1	81	-0.01	4.84
18	t	Acetophenone	1.965	2.306	-17.4	90	-0.02	5.02
19	t	2-Methylphenol	1.345	1.484	-10.3	83	0.00	4.91
20	t	2,2'-oxybis(1-Chloropropa	2.387	2.590	-8.5	80	-0.01	4.91
21	t	3&4-Methylphenol	1.406	1.633	-16.1	89	0.00	5.03
22	t	n-Nitroso-di-n-propylamin	0.990	1.154	-16.6	91	-0.01	5.02
23	t	Hexachloroethane	0.459	0.509	-10.9	81	-0.02	5.11
24	I	Naphthalene-d8	1.000	1.000	0.0	71	-0.02	5.80
25	S	Nitrobenzene-d5	0.366	0.426	-16.4	85	-0.02	5.15
26	t	Nitrobenzene	0.393	0.455	-15.8	84	-0.02	5.16
27	t	Quinoline	0.752	0.807	-7.3	79	0.03	6.16
28	t	Isophorone	0.688	0.769	-11.8	82	-0.02	5.37
29	t	2-Nitrophenol	0.195	0.230	-17.9	83	-0.02	5.44
30	t	2,4-Dimethylphenol	0.354	0.387	-9.3	80	0.00	5.48
		----------	True	Calc.	% Drift	----------		
31	t	Benzoic acid	50.000	56.805	-13.6	79	0.00	5.61
		----------	AvgRF	CCRF	% Dev	----------		
32	t	bis(2-Chloroethoxy)methan	0.423	0.468	-10.6	80	-0.01	5.56
33	t	2,4-Dichlorophenol	0.287	0.322	-12.2	81	-0.01	5.67
34	t	2,6-Dichlorophenol	0.284	0.318	-12.0	84	-0.01	5.88
35		1,3,5-Trichlorobenzene	0.315	0.345	-9.5	83	-0.02	5.45
36	t	1,2,4-Trichlorobenzene	0.292	0.316	-8.2	82	-0.02	5.74
37		1,2,3-Trichlorobenzene	0.291	0.321	-10.3	82	-0.02	5.96

Continuing Calibration Summary

Job Number: JC24978 **Sample:** E2M3807-CC3789
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 2M85990.D
Project: BMSMC, Building 5 Area, PR

38	t	Naphthalene	1.071	1.157	-8.0	82	-0.02	5.81
39	t	4-Chloroaniline	0.476	0.457	4.0	72	-0.02	5.87
40	t	2,3-Dichloroaniline	0.346	0.387	-11.8	84	-0.01	6.89
41	t	Caprolactam	0.185	0.227	-22.7#	86	0.00	6.25
42	t	Hexachlorobutadiene	0.136	0.162	-19.1	89	-0.02	5.94
43	t	4-Chloro-3-methylphenol	0.310	0.360	-16.1	82	0.00	6.40
44	t	2-Methylnaphthalene	0.616	0.690	-12.0	84	-0.02	6.55
45	t	1-Methylnaphthalene	0.616	0.685	-11.2	83	-0.02	6.67
46	t	Dimethylnaphthalene	0.628	0.699	-11.3	84	-0.01	7.32
47	I	Acenaphthene-d10	1.000	1.000	0.0	73	-0.02	7.87
48	t	Hexachlorocyclopentadiene	0.220	0.299	-35.9#	86	-0.03	6.74
49	t	2,4,6-Trichlorophenol	0.320	0.381	-19.1	88	-0.02	6.90
50	t	2,4,5-Trichlorophenol	0.346	0.395	-14.2	82	-0.02	6.95
51	S	2-Fluorobiphenyl	1.216	1.294	-6.4	83	-0.03	6.99
52	t	2-Chloronaphthalene	1.100	1.165	-5.9	83	-0.03	7.14
53	t	Biphenyl	1.524	1.625	-6.6	84	-0.03	7.11
54	t	2-Nitroaniline	0.376	0.455	-21.0#	86	-0.02	7.28
55	t	Dimethylphthalate	1.208	1.333	-10.3	84	-0.03	7.52
56	t	Acenaphthylene	1.831	1.991	-8.7	83	-0.02	7.67
57	t	2,6-Dinitrotoluene	0.252	0.313	-24.2#	84	-0.01	7.60
58	t	3-Nitroaniline	0.358	0.399	-11.5	78	-0.01	7.83
59	t	Acenaphthene	1.135	1.236	-8.9	85	-0.02	7.91
		----------	True	Calc.	% Drift	----------		
60	t	2,4-Dinitrophenol	100.000	110.821	-10.8	81	-0.03	7.98
		----------	AvgRF	CCRF	% Dev	----------		
61	t	4-Nitrophenol	0.143	0.219	-53.1#	103	-0.02	8.12
62	t	Dibenzofuran	1.645	1.784	-8.4	86	-0.02	8.15
63	t	2,4-Dinitrotoluene	0.338	0.431	-27.5#	88	-0.01	8.16
64		2,3,4,6-Tetrachlorophenol	0.236	0.284	-20.3#	84	-0.01	8.35
65	t	Diethylphthalate	1.199	1.384	-15.4	86	-0.01	8.52
66	t	Fluorene	1.247	1.377	-10.4	86	-0.01	8.64
67	t	4-Chlorophenyl-phenylethe	0.536	0.584	-9.0	84	-0.01	8.66
68	t	4-Nitroaniline	0.353	0.400	-13.3	78	0.00	8.70
69	I	Phenanthrene-d10	1.000	1.000	0.0	74	-0.03	10.04
		----------	True	Calc.	% Drift	----------		
70	t	4,6-Dinitro-2-methylpheno	50.000	55.534	-11.1	81	-0.02	8.75
		----------	AvgRF	CCRF	% Dev	----------		
71	t	n-Nitrosodiphenylamine	0.550	0.584	-6.2	82	-0.03	8.84
72	t	1,2-Diphenylhydrazine	0.842	0.987	-17.2	88	-0.04	8.89
73	S	2,4,6-Tribromophenol	0.082	0.106	-29.3#	92	-0.03	9.00
74	t	4-Bromophenyl-phenylether	0.177	0.197	-11.3	86	-0.03	9.38
75	t	Hexachlorobenzene	0.195	0.220	-12.8	88	-0.03	9.47
76	t	Pentachlorophenol	0.105	0.145	-38.1#	87	-0.02	9.78
77	t	Phenanthrene	1.120	1.194	-6.6	86	-0.03	10.08
78	t	Anthracene	1.117	1.198	-7.3	84	-0.03	10.15
79	t	Carbazole	1.121	1.193	-6.4	84	-0.02	10.43
80	t	Di-n-butylphthalate	1.286	1.532	-19.1	88	-0.02	11.05
81	t	Fluoranthene	1.083	1.216	-12.3	87	-0.02	11.93
82	t	Octadecane	0.619	0.684	-10.5	83	-0.03	9.99
83	I	Chrysene-d12	1.000	1.000	0.0	82	-0.03	14.22
84	t	Pyrene	1.432	1.421	0.8	87	-0.04	12.28
85	S	Terphenyl-d14	0.816	0.839	-2.8	87	-0.04	12.59
86	t	Butylbenzylphthalate	0.690	0.758	-9.9	89	-0.04	13.42

Continuing Calibration Summary

Job Number: JC24978 **Sample:** E2M3807-CC3789
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 2M85990.D
Project: BMSMC, Building 5 Area, PR

87	t	Benzo[a]anthracene	1.161	1.247	-7.4	93	-0.03	14.20
88	t	3,3'-Dichlorobenzidine	0.399	0.476	-19.3	96	-0.03	14.21
89	t	Chrysene	1.196	1.172	2.0	85	-0.03	14.26
90	t	bis(2-Ethylhexyl)phthalat	0.984	1.055	-7.2	90	-0.03	14.38
91	I	Perylene-d12	1.000	1.000	0.0	80	-0.03	16.32
92	t	Di-n-octylphthalate	1.625	1.855	-14.2	89	-0.04	15.36
93	t	Benzo[b]fluoranthene	1.196	1.349	-12.8	94	-0.03	15.81
94	t	Benzo[k]fluoranthene	1.154	1.208	-4.7	86	-0.03	15.85
95	t	Benzo[a]pyrene	1.063	1.117	-5.1	86	-0.03	16.25
96	t	Indeno[1,2,3-cd]pyrene	1.040	1.141	-9.7	88	-0.06	17.87
97	t	Dibenz(a,h)acridine	0.963	1.023	-6.2	86	-0.05	17.51
98	t	Dibenz[a,h]anthracene	1.093	1.153	-5.5	86	-0.07	17.90
99	t	7,12-Dimethylbenz(a)anthr	0.545	0.622	-14.1	93	-0.03	15.81
100	t	Benzo[g,h,i]perylene	1.100	1.145	-4.1	85	-0.07	18.30

(#) = Out of Range SPCC's out = 0 CCC's out = 0
2m85704A.D M2M3789.M Sun Jul 31 15:58:51 2016

6.7.12

6

Continuing Calibration Summary

Job Number: JC24978 **Sample:** E2M3807-CC3791
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 2M85991.D
Project: BMSMC, Building 5 Area, PR

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\DATA\E2M3807\2m85991.D          Vial: 3
Acq On    : 31 Jul 2016  12:42 pm                     Operator: kristis
Sample    : cc3791-50                                 Inst    : MS
Misc      : op95842,e2m3807,1000,,,1,1                Multiplr: 1.00
MS Integration Params: rteint.p

Method       : C:\MSDCHEM\1\METHODS\M2M3789.M (RTE Integrator)
Title        : Semi Volatile GC/MS,rxi 5sil ms 30m .25mm .25um
Last Update  : Thu Jul 28 23:07:38 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	1,4-Dichlorobenzene-d4a	1.000	1.000	0.0	88	-0.02	4.70
102	Benzaldehyde	0.985	0.884	10.3	70	-0.02	4.37
103	Acenaphthene-d10a	1.000	1.000	0.0	92	-0.03	7.86
104	1,2,4,5-Tetrachlorobenzen	0.429	0.424	1.2	85	-0.03	6.75
105	Chrysene-d12a	1.000	1.000	0.0	99	-0.04	14.21
106	Benzidine	0.475	0.474	0.2	93	-0.05	12.19
107	Phenanthrene-d10a	1.000	1.000	0.0	90	-0.03	10.03
108	Atrazine	0.086	0.097	-12.8	88	-0.02	9.68
109	Naphthalene-d8a	1.000	1.000	0.0	87	-0.02	5.79
110	Hydroquinone	0.307	0.339	-10.4	77	0.01	6.24

```
(#) = Out of Range              SPCC's out = 0  CCC's out = 0
 2m85704A.D M2M3789.M        Sun Jul 31 15:58:52 2016
```

Continuing Calibration Summary

Job Number: JC24978 **Sample:** E2M3808-CC3789
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 2M86015.D
Project: BMSMC, Building 5 Area, PR

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\E2M3808\2m86015.D Vial: 2
Acq On : 1 Aug 2016 10:17 am Operator: ashleyn
Sample : cc3789-25 Inst : MS
Misc : op95939,e2m3808 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\MSDCHEM\1\METHODS\M2M3789.M (RTE Integrator)
Title : Semi Volatile GC/MS,rxi 5sil ms 30m .25mm .25um
Last Update : Thu Jul 28 23:07:38 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	62	-0.02	4.70
2	t	1,4-Dioxane	0.733	0.664	9.4	61	-0.07	2.24
3	t	Pyridine	1.780	1.744	2.0	63	-0.06	2.57
4	t	N-Nitrosodimethylamine	1.005	1.006	-0.1	63	-0.05	2.54
5	S	2-Fluorophenol	1.395	1.442	-3.4	66	-0.02	3.73
6	t	Indene	2.607	3.013	-15.6	72	-0.02	4.89
7	t	Cumene	3.644	4.011	-10.1	70	-0.03	4.10
8	S	Phenol-d5	1.770	1.882	-6.3	68	0.00	4.44
9	t	Phenol	2.103	2.245	-6.8	66	0.00	4.45
10		Aniline	2.525	2.328	7.8	59	-0.02	4.45
11	t	bis(2-Chloroethyl)ether	1.490	1.632	-9.5	70	-0.02	4.49
12	t	2-Chlorophenol	1.544	1.656	-7.3	68	-0.02	4.55
13	t	Decane	1.944	2.235	-15.0	72	-0.02	4.57
14	t	1,3-Dichlorobenzene	1.610	1.739	-8.0	69	-0.02	4.65
15	t	1,4-Dichlorobenzene	1.610	1.738	-8.0	68	-0.02	4.71
16	t	Benzyl alcohol	1.039	1.144	-10.1	69	-0.01	4.81
17	t	1,2-Dichlorobenzene	1.503	1.649	-9.7	70	-0.02	4.83
18	t	Acetophenone	1.965	2.342	-19.2	74	-0.02	5.01
19	t	2-Methylphenol	1.345	1.527	-13.5	70	-0.01	4.91
20	t	2,2'-oxybis(1-Chloropropa	2.387	2.689	-12.7	70	-0.02	4.91
21	t	3&4-Methylphenol	1.406	1.642	-16.8	72	0.00	5.03
22	t	n-Nitroso-di-n-propylamin	0.990	1.184	-19.6	73	-0.02	5.01
23	t	Hexachloroethane	0.459	0.513	-11.8	70	-0.02	5.10
24	I	Naphthalene-d8	1.000	1.000	0.0	63	-0.03	5.79
25	S	Nitrobenzene-d5	0.366	0.422	-15.3	74	-0.02	5.14
26	t	Nitrobenzene	0.393	0.445	-13.2	74	-0.02	5.16
27	t	Quinoline	0.752	0.814	-8.2	71	0.02	6.15
28	t	Isophorone	0.688	0.750	-9.0	71	-0.03	5.35
29	t	2-Nitrophenol	0.195	0.223	-14.4	71	-0.02	5.44
30	t	2,4-Dimethylphenol	0.354	0.354	0.0	66	-0.01	5.48
		----------	True	Calc.	% Drift		----------	
31	t	Benzoic acid	25.000	29.100	-16.4	81	-0.03	5.57
		----------	AvgRF	CCRF	% Dev		----------	
32	t	bis(2-Chloroethoxy)methan	0.423	0.459	-8.5	69	-0.02	5.55
33	t	2,4-Dichlorophenol	0.287	0.322	-12.2	71	-0.02	5.67
34	t	2,6-Dichlorophenol	0.284	0.314	-10.6	70	-0.03	5.87
35		1,3,5-Trichlorobenzene	0.315	0.341	-8.3	71	-0.03	5.45
36	t	1,2,4-Trichlorobenzene	0.292	0.310	-6.2	69	-0.03	5.73
37		1,2,3-Trichlorobenzene	0.291	0.314	-7.9	69	-0.03	5.95

Continuing Calibration Summary

Job Number: JC24978 **Sample:** E2M3808-CC3789
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 2M86015.D
Project: BMSMC, Building 5 Area, PR

38	t	Naphthalene	1.071	1.152	-7.6	70	-0.03	5.81
39	t	4-Chloroaniline	0.476	0.494	-3.8	67	-0.03	5.86
40	t	2,3-Dichloroaniline	0.346	0.402	-16.2	75	-0.02	6.88
41	t	Caprolactam	0.185	0.222	-20.0	76	-0.04	6.22
42	t	Hexachlorobutadiene	0.136	0.156	-14.7	75	-0.03	5.94
43	t	4-Chloro-3-methylphenol	0.310	0.353	-13.9	72	-0.01	6.39
44	t	2-Methylnaphthalene	0.616	0.682	-10.7	72	-0.03	6.54
45	t	1-Methylnaphthalene	0.616	0.675	-9.6	70	-0.03	6.65
46	t	Dimethylnaphthalene	0.628	0.696	-10.8	72	-0.02	7.31
47	I	Acenaphthene-d10	1.000	1.000	0.0	65	-0.03	7.86
48	t	Hexachlorocyclopentadiene	0.220	0.259	-17.7	70	-0.04	6.73
49	t	2,4,6-Trichlorophenol	0.320	0.367	-14.7	75	-0.03	6.89
50	t	2,4,5-Trichlorophenol	0.346	0.381	-10.1	73	-0.03	6.94
51	S	2-Fluorobiphenyl	1.216	1.275	-4.9	71	-0.04	6.98
52	t	2-Chloronaphthalene	1.100	1.142	-3.8	71	-0.04	7.13
53	t	Biphenyl	1.524	1.620	-6.3	72	-0.04	7.10
54	t	2-Nitroaniline	0.376	0.435	-15.7	75	-0.03	7.26
55	t	Dimethylphthalate	1.208	1.332	-10.3	75	-0.04	7.51
56	t	Acenaphthylene	1.831	1.969	-7.5	72	-0.03	7.66
57	t	2,6-Dinitrotoluene	0.252	0.304	-20.6#	74	-0.03	7.59
58	t	3-Nitroaniline	0.358	0.401	-12.0	72	-0.03	7.82
59	t	Acenaphthene	1.135	1.203	-6.0	72	-0.03	7.90
		----------	True	Calc.	% Drift	----------		
60	t	2,4-Dinitrophenol	50.000	56.104	-12.2	77	-0.04	7.97
		----------	AvgRF	CCRF	% Dev	----------		
61	t	4-Nitrophenol	0.143	0.203	-42.0#	95	-0.02	8.11
62	t	Dibenzofuran	1.645	1.762	-7.1	72	-0.03	8.14
63	t	2,4-Dinitrotoluene	0.338	0.418	-23.7#	75	-0.02	8.15
64		2,3,4,6-Tetrachlorophenol	0.236	0.271	-14.8	75	-0.02	8.34
65	t	Diethylphthalate	1.199	1.378	-14.9	77	-0.02	8.51
66	t	Fluorene	1.247	1.363	-9.3	73	-0.03	8.63
67	t	4-Chlorophenyl-phenylethe	0.536	0.585	-9.1	75	-0.02	8.65
68	t	4-Nitroaniline	0.353	0.402	-13.9	71	-0.02	8.69
69	I	Phenanthrene-d10	1.000	1.000	0.0	66	-0.04	10.03
		----------	True	Calc.	% Drift	----------		
70	t	4,6-Dinitro-2-methylpheno	25.000	27.538	-10.2	74	-0.04	8.74
		----------	AvgRF	CCRF	% Dev	----------		
71	t	n-Nitrosodiphenylamine	0.550	0.580	-5.5	72	-0.05	8.83
72	t	1,2-Diphenylhydrazine	0.842	0.972	-15.4	77	-0.05	8.88
73	S	2,4,6-Tribromophenol	0.082	0.103	-25.6#	83	-0.04	8.99
74	t	4-Bromophenyl-phenylether	0.177	0.191	-7.9	74	-0.04	9.37
75	t	Hexachlorobenzene	0.195	0.215	-10.3	76	-0.04	9.46
76	t	Pentachlorophenol	0.105	0.133	-26.7#	76	-0.03	9.77
77	t	Phenanthrene	1.120	1.180	-5.4	74	-0.04	10.06
78	t	Anthracene	1.117	1.191	-6.6	73	-0.04	10.14
79	t	Carbazole	1.121	1.191	-6.2	73	-0.03	10.41
80	t	Di-n-butylphthalate	1.286	1.479	-15.0	76	-0.03	11.04
81	t	Fluoranthene	1.083	1.205	-11.3	76	-0.03	11.92
82	t	Octadecane	0.619	0.687	-11.0	74	-0.04	9.98
83	I	Chrysene-d12	1.000	1.000	0.0	72	-0.04	14.21
84	t	Pyrene	1.432	1.406	1.8	73	-0.05	12.27
85	S	Terphenyl-d14	0.816	0.807	1.1	74	-0.05	12.58
86	t	Butylbenzylphthalate	0.690	0.740	-7.2	78	-0.05	13.41

Continuing Calibration Summary

Job Number: JC24978 **Sample:** E2M3808-CC3789
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 2M86015.D
Project: BMSMC, Building 5 Area, PR

87	t	Benzo[a]anthracene	1.161	1.214	-4.6	80	-0.04	14.19
88	t	3,3'-Dichlorobenzidine	0.399	0.451	-13.0	82	-0.04	14.20
89	t	Chrysene	1.196	1.188	0.7	76	-0.05	14.24
90	t	bis(2-Ethylhexyl)phthalat	0.984	1.037	-5.4	79	-0.04	14.37
91	I	Perylene-d12	1.000	1.000	0.0	72	-0.04	16.32
92	t	Di-n-octylphthalate	1.625	1.750	-7.7	77	-0.04	15.36
93	t	Benzo[b]fluoranthene	1.196	1.245	-4.1	78	-0.04	15.80
94	t	Benzo[k]fluoranthene	1.154	1.204	-4.3	76	-0.05	15.84
95	t	Benzo[a]pyrene	1.063	1.083	-1.9	76	-0.04	16.24
96	t	Indeno[1,2,3-cd]pyrene	1.040	1.030	1.0	75	-0.07	17.85
97	t	Dibenz(a,h)acridine	0.963	0.992	-3.0	77	-0.06	17.50
98	t	Dibenz[a,h]anthracene	1.093	1.112	-1.7	75	-0.08	17.89
99	t	7,12-Dimethylbenz(a)anthr	0.545	0.568	-4.2	77	-0.05	15.80
100	t	Benzo[g,h,i]perylene	1.100	1.115	-1.4	75	-0.09	18.29

(#) = Out of Range SPCC's out = 0 CCC's out = 0
2m85705A.D M2M3789.M Mon Aug 01 14:23:52 2016

Continuing Calibration Summary

Job Number: JC24978 **Sample:** E2M3808-CC3791
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 2M86016.D
Project: BMSMC, Building 5 Area, PR

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\DATA\E2M3808\2m86016.D          Vial: 3
Acq On    :  1 Aug 2016  10:48 am                     Operator: ashleyn
Sample    : cc3791-25                                 Inst    : MS
Misc      : op95939,e2m3808                           Multiplr: 1.00
MS Integration Params: rteint.p

Method       : C:\MSDCHEM\1\METHODS\M2M3789.M (RTE Integrator)
Title        : Semi Volatile GC/MS,rxi 5sil ms 30m .25mm .25um
Last Update  : Thu Jul 28 23:07:38 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	1,4-Dichlorobenzene-d4a	1.000	1.000	0.0	62	-0.02	4.70
102	Benzaldehyde	0.985	1.071	-8.7	60	-0.02	4.37
103	Acenaphthene-d10a	1.000	1.000	0.0	69	-0.03	7.86
104	1,2,4,5-Tetrachlorobenzen	0.429	0.405	5.6	66	-0.04	6.74
105	Chrysene-d12a	1.000	1.000	0.0	77	-0.05	14.20
106	Benzidine	0.475	0.590	-24.2#	69	-0.06	12.18
107	Phenanthrene-d10a	1.000	1.000	0.0	71	-0.04	10.02
108	Atrazine	0.086	0.096	-11.6	74	-0.04	9.67
109	Naphthalene-d8a	1.000	1.000	0.0	64	-0.03	5.79
110	Hydroquinone	0.307	0.358	-16.6	73	0.00	6.23

(#) = Out of Range SPCC's out = 0 CCC's out = 0
2m85705A.D M2M3789.M Mon Aug 01 14:23:53 2016

Initial Calibration Summary

Job Number: JC24978
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR
Sample: E3M2975-ICC2975
Lab FileID: 3M62957.D

Response Factor Report MS3M

Method : C:\MSDCHEM\1\METHODS\M3M2975SIM.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Thu Jul 14 15:32:15 2016
Response via : Initial Calibration

Calibration Files
2.5 =3m62956.D 1.0 =3m62957.D 0.5 =3m62958.D 0.2 =3m62950.D
0.1 =3m62951.D 0.05=3m62952.D 0.02=3m62953.D 0.01=3m62954.D
5 =3m62955.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	0.206	0.209	0.206	0.254	0.223				0.222	0.220	8.37
3) 2-Fluorophenol	0.556	0.545	0.556	0.613	0.528	0.530			0.570	0.557	5.22
4) Phenol-d5	0.814	0.829	0.838	0.921	0.784	0.774			0.803	0.823	5.91
5) Phenol	0.871	0.876	0.885	0.961	0.846	0.827	0.766		0.841	0.859	6.46
6) bis(2-Chloroethyl)ether	0.671	0.670	0.670	0.729	0.643	0.630	0.565	0.474	0.671	0.636	11.73
7) Nitrobenzene-d5	0.738	0.775	0.770	0.886	0.741	0.687			0.816	0.773	8.20
8) Nitrobenzene	0.882	0.795	0.783	0.932	0.809	0.723	0.638	0.603	0.879	0.783	14.23
9) Naphthalene	2.372	2.302	2.347	2.569	2.272	2.279	2.298	2.232	2.388	2.340	4.24
10) Hexachlorobutadiene	0.413	0.423	0.435	0.441	0.405	0.409	0.408	0.413	0.423	0.419	3.01
11) 2-Methylnaphthalene	1.226	1.198	1.211	1.325	1.076	1.318			1.215	1.224	6.83
12) 1-Methylnaphthalene	1.334	1.336	1.392	1.355	1.231	1.307	1.353	1.370	1.342	1.336	3.44
13) Hexachlorocyclopentadiene	0.435	0.334	0.285	0.325	0.191				0.483	0.342	30.64
---- Quadratic regression ---- Coefficient = 0.9993											
Response Ratio = -0.01716 + 0.38446 *A + 0.04274 *A^2											
14) I Fluorene-d10 ----------ISTD----------											
15) 2-Fluorobiphenyl	0.805	1.050	1.192	1.260	1.143	1.171	1.128	1.085	0.936	1.086	12.90
16) Acenaphthylene	1.372	1.366	1.386	1.449	1.257	1.252	1.193		1.333	1.326	6.39
17) Acenaphthene	0.864	0.881	0.917	0.976	0.842	0.848	0.816	0.796	0.834	0.864	6.37
18) 4,6-dinitro-2-methylphenol	0.180	0.145	0.112	0.091	0.050	0.056				0.106	48.11
---- Quadratic regression ---- Coefficient = 0.9996											
Response Ratio = -0.00884 + 0.12555 *A + 0.01830 *A^2											
19) Fluorene	0.928	0.959	1.011	1.062	0.950	0.960	0.959		0.913	0.968	4.91
20) 2,4,6-Tribromophenol											

Initial Calibration Summary

Job Number: JC24978 **Sample:** E3M2975-ICC2975
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 3M62957.D
Project: BMSMC, Building 5 Area, PR

```
          0.151 0.170 0.173 0.174                        0.168        0.167    5.61

21) I   Fluoranthene-d10      ----------------ISTD---------------------
22)  Hexachlorobenzene
          0.214 0.226 0.232 0.223 0.205 0.204 0.213 0.202 0.208        0.214    5.07
23)  Pentachlorophenol
          0.104 0.082 0.063 0.082 0.036 0.040            0.118        0.075   40.84
           ---- Quadratic regression ----  Coefficient =  0.9994
             Response Ratio = -0.00759 + 0.08784 *A + 0.00508 *A^2

24)  Phenanthrene
          0.919 0.963 0.942 0.909 0.782 0.766            0.916        0.885    8.85
25)  Anthracene
          0.914 0.881 0.850 0.800 0.662                  0.906        0.835   11.32
26)  Fluoranthene
          1.099 1.113 1.143 1.121 1.016 1.087            1.076        1.094    3.73
27)  Pyrene
          1.115 1.084 1.065 1.072 0.912 0.884            1.095        1.032    9.07
28)  Terphenyl-d14
          0.583 0.643 0.665 0.656 0.574                  0.543        0.610    8.26
29)  Benzo[a]anthracene
          0.940 0.890 0.842 0.936 0.744 0.689            0.972        0.859   12.45
30)  Chrysene
          0.934 0.957 0.922 0.963 0.794 0.852            0.931        0.907    6.84

31) I   Benzo(a)pyrene-d12    ----------------ISTD---------------------
32)  Benzo[b]fluoranthene
          1.363 1.333 1.313 1.347 1.114                  1.331        1.300    7.14
33)  Benzo[k]fluoranthene
          1.165 1.305 1.285 1.193 0.942                  1.193        1.180   10.98
34)  Benzo[a]pyrene
          1.171 1.209 1.284 1.210 1.084 1.245            1.159        1.195    5.41
35)  Indeno[1,2,3-cd]pyrene
          1.277 1.256 1.216 1.243 1.000                  1.316        1.218    9.19
36)  Dibenz[a,h]anthracene
          1.073 1.054 1.015 1.018 0.813                  1.101        1.012   10.17
37)  Benzo[g,h,i]perylene
          1.126 1.161 1.161 1.142 0.991                  1.066        1.108    6.06
-------------------------------------------------------------------------------
(#) = Out of Range  ###  Number of calibration levels exceeded format  ###

          M3M2975SIM.M        Fri Jul 15 17:12:37 2016   RPT1
```

Initial Calibration Verification

Job Number: JC24978
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR
Sample: E3M2976-ICV2975
Lab FileID: 3M62962.D

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\DATA\E3M2976\3m62962.D          Vial: 2
Acq On    : 14 Jul 2016   5:18 pm                    Operator: ashleyd
Sample    : icv2975-1.0                              Inst    : MS3M
Misc      : op95160a,e3m2976                         Multiplr: 1.00
MS Integration Params: lscint.p

Method       : C:\MSDCHEM\1\METHODS\M3M2975SIM.M (RTE Integrator)
Title        : Semi Volatile Extractables by GC/MS
Last Update  : Thu Jul 14 15:32:15 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	143	-0.02	10.28
5	Phenol	0.859	0.717	16.5	117	-0.01	5.92
	----------	AvgRF	CCRF	% Dev	----------		
14 I	Fluorene-d10	1.000	1.000	0.0	109	-0.02	13.26
	----------	True	Calc.	% Drift	----------		
18 t	4,6-dinitro-2-methylpheno	5.000	4.487	10.3	93	-0.02	13.48
	----------	AvgRF	CCRF	% Dev	----------		
21 I	Fluoranthene-d10	1.000	1.000	0.0	118	-0.02	17.46
	----------	True	Calc.	% Drift	----------		
23 t	Pentachlorophenol	5.000	5.892	-17.8	152	-0.02	14.85

(#) = Out of Range SPCC's out = 0 CCC's out = 0
3m62957.D M3M2975SIM.M Fri Jul 15 17:12:25 2016 RPT1

Initial Calibration Verification

Job Number: JC24978 **Sample:** E3M2976-ICV2975
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 3M62963.D
Project: BMSMC, Building 5 Area, PR

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\DATA\E3M2976\3m62963.D          Vial: 3
Acq On    : 14 Jul 2016   5:51 pm                    Operator: ashleyd
Sample    : icv2975-1.0                              Inst    : MS3M
Misc      : op95160a,e3m2976                         Multiplr: 1.00
MS Integration Params: lscint.p

Method       : C:\MSDCHEM\1\METHODS\M3M2975SIM.M (RTE Integrator)
Title        : Semi Volatile Extractables by GC/MS
Last Update  : Thu Jul 14 15:32:15 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	132	-0.02	10.28
2	t	1,4-dioxane	0.220	0.182	17.3	115	0.02	2.10
6	t	bis(2-Chloroethyl)ether	0.636	0.662	-4.1	130	-0.01	5.99
8	t	Nitrobenzene	0.783	0.626	20.1	104	0.00	7.45
9	t	Naphthalene	2.340	1.953	16.5	112	0.00	8.80
10	t	Hexachlorobutadiene	0.419	0.420	-0.2	131	-0.02	9.10
11	t	2-Methylnaphthalene	1.224	1.214	0.8	133	-0.02	10.16
		----------	True	Calc.	% Drift	----------		
13		Hexachlorocyclopentadiene	1.000	0.701	29.9	82	0.00	10.53
		----------	AvgRF	CCRF	% Dev	----------		
14	I	Fluorene-d10	1.000	1.000	0.0	101	-0.02	13.26
16	t	Acenaphthylene	1.326	1.652	-24.6	122	-0.02	11.92
17	t	Acenaphthene	0.864	1.092	-26.4	125	-0.02	12.27
		----------	AvgRF	CCRF	% Dev	----------		
19	t	Fluorene	0.968	1.276	-31.8#	135	-0.02	13.31
21	I	Fluoranthene-d10	1.000	1.000	0.0	106	-0.02	17.46
22	t	Hexachlorobenzene	0.214	0.252	-17.8	118	-0.02	14.42
		----------	AvgRF	CCRF	% Dev	----------		
24	t	Phenanthrene	0.885	1.094	-23.6	120	-0.02	15.21
25	t	Anthracene	0.835	0.967	-15.8	116	0.00	15.32
26	t	Fluoranthene	1.094	1.288	-17.7	122	-0.02	17.49
27	t	Pyrene	1.032	1.278	-23.8	125	-0.02	17.88
29	t	Benzo[a]anthracene	0.859	1.107	-28.9	131	-0.02	19.98
30	t	Chrysene	0.907	1.055	-16.3	116	-0.02	20.03
31	I	Benzo(a)pyrene-d12	1.000	1.000	0.0	103	-0.02	22.05
32	t	Benzo[b]fluoranthene	1.300	1.476	-13.5	114	-0.02	21.64
33	t	Benzo[k]fluoranthene	1.180	1.400	-18.6	111	-0.02	21.68
34	t	Benzo[a]pyrene	1.195	1.365	-14.2	116	-0.02	22.09
35	t	Indeno[1,2,3-cd]pyrene	1.218	1.427	-17.2	117	-0.02	23.54
36	t	Dibenz[a,h]anthracene	1.012	1.126	-11.3	110	-0.02	23.58
37	t	Benzo[g,h,i]perylene	1.108	1.249	-12.7	111	-0.02	23.88

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

Initial Calibration Verification

Job Number: JC24978
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR
Sample: E3M2976-ICV2975
Lab FileID: 3M62963.D

```
3m62957.D  M3M2975SIM.M       Fri Jul 15 17:12:27 2016   RPT1
```

Continuing Calibration Summary

Job Number: JC24978 **Sample:** E3M3004-CC2975
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 3M63391.D
Project: BMSMC, Building 5 Area, PR

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\DATA\E3M3004\3m63391.D          Vial: 2
Acq On    :  2 Aug 2016  11:08 am                     Operator: SHANICEG
Sample    : cc2975-0.5                                Inst    : MS3M
Misc      : op95160a,e3m3004                          Multiplr: 1.00
MS Integration Params: lscint.p

Method       : C:\MSDCHEM\1\METHODS\M3M2975SIM.M (RTE Integrator)
Title        : Semi Volatile Extractables by GC/MS
Last Update  : Tue Aug 02 08:23:04 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	156	-0.12	10.10
2	t	1,4-dioxane	0.220	0.189	14.1	143	-0.03	1.93
3	S	2-Fluorophenol	0.557	0.393	29.4#	110	-0.12	4.15
4	S	Phenol-d5	0.823	0.661	19.7	123	-0.10	5.77
5		Phenol	0.859	0.696	19.0	123	-0.10	5.78
6	t	bis(2-Chloroethyl)ether		----------NA----------				
7	S	Nitrobenzene-d5	0.773	0.755	2.3	153	-0.15	7.22
8	t	Nitrobenzene	0.783	0.819	-4.6	163	-0.13	7.26
9	t	Naphthalene	2.340	2.006	14.3	133	-0.12	8.62
10	t	Hexachlorobutadiene	0.419	0.346	17.4	124	-0.14	8.92
11	t	2-Methylnaphthalene	1.224	1.160	5.2	150	-0.10	9.99
12	t	1-Methylnaphthalene	1.336	1.261	5.6	142	-0.10	10.18
		----------	True	Calc.	% Drift	----------		
13		Hexachlorocyclopentadiene	1.000	0.236	76.4#	12	-0.10	10.34
		----------	AvgRF	CCRF	% Dev	----------		
14	I	Fluorene-d10	1.000	1.000	0.0	138	-0.04	13.11
15	S	2-Fluorobiphenyl	1.086	1.121	-3.2	130	-0.10	10.77
16	t	Acenaphthylene	1.326	1.685	-27.1#	168	-0.07	11.75
17	t	Acenaphthene	0.864	1.059	-22.6#	160	-0.05	12.12
		----------	True	Calc.	% Drift	----------		
18	t	4,6-dinitro-2-methylpheno	2.500	1.007	59.7#	47	0.02	13.39
		----------	AvgRF	CCRF	% Dev	----------		
19	t	Fluorene	0.968	1.191	-23.0#	163	-0.05	13.15
20	S	2,4,6-Tribromophenol	0.167	0.134	19.8	107	-0.03	13.67
21	I	Fluoranthene-d10	1.000	1.000	0.0	145	-0.08	17.34
22	t	Hexachlorobenzene	0.214	0.194	9.3	121	-0.12	14.27
		----------	True	Calc.	% Drift	----------		
23	t	Pentachlorophenol	2.500	1.743	30.3#	116	-0.07	14.74
		----------	AvgRF	CCRF	% Dev	----------		
24	t	Phenanthrene	0.885	0.982	-11.0	151	-0.12	15.05
25	t	Anthracene	0.835	1.082	-29.6#	184	-0.10	15.16
26	t	Fluoranthene	1.094	1.191	-8.9	151	-0.08	17.37
27	t	Pyrene	1.032	1.211	-17.3	164	-0.06	17.77
28	S	Terphenyl-d14	0.610	0.604	1.0	132	-0.09	18.16

Continuing Calibration Summary

Job Number: JC24978 **Sample:** E3M3004-CC2975
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 3M63391.D
Project: BMSMC, Building 5 Area, PR

29	t	Benzo[a]anthracene	0.859	0.840	2.2	144	-0.08	19.88
30	t	Chrysene	0.907	0.984	-8.5	154	-0.08	19.94
31	I	Benzo(a)pyrene-d12	1.000	1.000	0.0	85	-0.09	21.98
32	t	Benzo[b]fluoranthene	1.300	1.220	6.2	79	-0.09	21.55
33	t	Benzo[k]fluoranthene	1.180	1.408	-19.3	94	-0.09	21.58
34	t	Benzo[a]pyrene	1.195	1.240	-3.8	83	-0.11	22.00
35	t	Indeno[1,2,3-cd]pyrene	1.218	1.227	-0.7	86	-0.09	23.46
36	t	Dibenz[a,h]anthracene	1.012	0.964	4.7	81	-0.11	23.48
37	t	Benzo[g,h,i]perylene	1.108	1.083	2.3	80	-0.09	23.80

(#) = Out of Range SPCC's out = 0 CCC's out = 0
3m62958.D M3M2975SIM.M Tue Aug 02 12:48:23 2016 RPT1

Initial Calibration Summary

Job Number: JC24978 **Sample:** E3P2503-ICC2503
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 3P54955.D
Project: BMSMC, Building 5 Area, PR

Response Factor Report MSGC3P

Method : C:\MSDCHEM\1\METHODS\M3P2503SIM.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Wed Jul 06 17:34:10 2016
Response via : Initial Calibration

Calibration Files
2.5 =3p54962.D 1.0 =3p54955.D 0.5 =3p54963.D 0.2 =3p54960.D
0.1 =3p54959.D 0.05=3p54958.D 0.02=3p54957.D 0.01=3p54956.D
5 =3p54961.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	0.382	0.421	0.347	0.441	0.420				0.405	0.403	8.35
3) 2-Fluorophenol	0.512	0.597	0.571	0.766	0.707	0.723				0.646	15.53
4) Phenol-d5	0.671	0.755	0.766	1.020	0.970	1.006				0.864	17.51
5) Phenol	0.597	0.667	0.679	0.971	0.963	1.027	1.074			0.854	23.21
---- Quadratic regression ---- Coefficient = 0.9989											
Response Ratio = 0.03088 + 0.67965 *A + -0.02976 *A^2											
6) bis(2-Chloroethyl)ether	0.595	0.584	0.579	0.764	0.755	0.802	0.872	0.860	0.606	0.713	17.12
7) Nitrobenzene-d5	0.561	0.604	0.634	0.771	0.716	0.746			0.520	0.650	14.77
8) Nitrobenzene	0.583	0.612	0.655	0.921	0.836					0.722	20.62
9) Naphthalene	2.445	2.304	2.285	2.831	2.717	2.851	2.919	2.937	2.376	2.629	10.40
10) Hexachlorobutadiene	0.390	0.364	0.376	0.476	0.467	0.513	0.590		0.386	0.445	18.00
11) 2-Methylnaphthalene	1.325	1.190	1.285	1.636	1.411	1.822			1.232	1.414	16.42
12) 1-Methylnaphthalene	1.114	1.016	1.011	1.212	1.094	1.106	1.120	1.252	1.082	1.112	7.14
13) Hexachlorocyclopentadiene	0.312	0.265	0.221	0.205	0.169				0.354	0.254	27.34
---- Quadratic regression ---- Coefficient = 0.9999											
Response Ratio = -0.00964 + 0.27470 *A + 0.03325 *A^2											
14) I Fluorene-d10 ----------ISTD----------											
15) 2-Fluorobiphenyl	0.634	0.835	0.922	1.138	1.054	1.090	1.125	1.076		0.984	17.87
16) Acenaphthylene	1.420	1.327	1.446	1.509	1.319	1.483	1.399		1.385	1.411	4.83
17) Acenaphthene	0.817	0.847	0.879	0.964	0.894	0.943	0.936	0.995	0.767	0.893	8.29
18) 4,6-dinitro-2-methylphenol	0.098	0.061	0.050	0.048	0.028				0.133	0.070	55.52
---- Quadratic regression ---- Coefficient = 0.9996											
Response Ratio = -0.00883 + 0.06278 *A + 0.01142 *A^2											

Initial Calibration Summary

Job Number: JC24978 **Sample:** E3P2503-ICC2503
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 3P54955.D
Project: BMSMC, Building 5 Area, PR

```
19)  Fluorene
           0.866 0.861 0.833 0.910 0.796 0.798 0.802 0.853 0.867        0.843    4.59
20)  2,4,6-Tribromophenol
           0.125 0.137 0.133 0.137                          0.094        0.125   14.44

21) I   Fluoranthene-d10      ----------------ISTD---------------------
22)  Hexachlorobenzene
           0.203 0.202 0.221 0.247 0.224 0.235 0.240 0.228 0.186        0.221    9.09
23)  Pentachlorophenol
           0.105 0.098 0.082 0.079 0.056 0.075              0.105        0.086   20.82
            ---- Quadratic regression ----  Coefficient =  0.9997
              Response Ratio = -0.00724 + 0.10562 *A + 0.00018 *A^2

24)  Phenanthrene
           0.855 0.868 0.995 1.053 0.966 1.018              0.761        0.931   11.30
25)  Anthracene
           0.735 0.782 0.826 0.903 0.843                    0.683        0.795    9.94
26)  Fluoranthene
           0.821 0.806 0.804 0.870 0.783 0.780              0.764        0.804    4.34
27)  Pyrene
           0.923 0.898 0.911 0.963 0.857 0.889              0.850        0.899    4.33
28)  Terphenyl-d14
           0.344 0.439 0.505 0.617 0.587 0.612 0.583                     0.527   19.59
29)  Benzo[a]anthracene
           0.782 0.771 0.749 0.733 0.681 0.748              0.780        0.749    4.68
30)  Chrysene
           0.784 0.822 0.890 0.938 0.897 0.956              0.704        0.856   10.55

31) I   Benzo(a)pyrene-d12    ----------------ISTD---------------------
32)  Benzo[b]fluoranthene
           1.410 1.284 1.328 1.277 1.221                    1.432        1.325    6.18
33)  Benzo[k]fluoranthene
           1.087 1.132 1.094 1.209 1.120                    1.055        1.116    4.73
34)  Benzo[a]pyrene
           0.999 0.994 0.935 1.109 1.078 1.181              1.019        1.045    7.94
35)  Indeno[1,2,3-cd]pyrene
           1.205 1.212 1.091 1.167 1.023                    1.217        1.153    6.85
36)  Dibenz[a,h]anthracene
           0.842 0.986 0.877 0.931 0.811                    0.875        0.887    7.08
37)  Benzo[g,h,i]perylene
           1.109 1.136 1.109 1.217 1.130                    1.106        1.134    3.74
-----------------------------------------------------------------------------
(#) = Out of Range  ###  Number of calibration levels exceeded format  ###

          M3P2503SIM.M        Mon Jul 11 10:10:21 2016
```

Initial Calibration Verification

Job Number: JC24978 **Sample:** E3P2503-ICV2503
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 3P54964.D
Project: BMSMC, Building 5 Area, PR

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\data\E3P2503\3p54964.D Vial: 11
Acq On : 6 Jul 2016 5:37 pm Operator: hankc
Sample : icv2503-1.0 Inst : MSGC3P
Misc : op95179a,e3p2503 Multiplr: 1.00
MS Integration Params: lscint.p

Method : C:\MSDCHEM\1\METHODS\M3P2503SIM.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Wed Jul 06 17:34:10 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	96	0.00	11.10
2	t	1,4-dioxane	0.403	0.317	21.3	72	-0.02	2.74
		----------	AvgRF	CCRF	% Dev	----------		
6	t	bis(2-Chloroethyl)ether	0.713	0.945	-32.5#	155	-0.01	6.76
8	t	Nitrobenzene	0.722	0.849	-17.6	133	0.00	8.24
9	t	Naphthalene	2.629	2.847	-8.3	118	0.00	9.62
10	t	Hexachlorobutadiene	0.445	0.463	-4.0	122	0.00	9.92
11	t	2-Methylnaphthalene	1.414	1.410	0.3	113	0.00	10.98
		----------	True	Calc.	% Drift	----------		
13		Hexachlorocyclopentadiene	1.000	0.902	9.8	78	0.00	11.35
		----------	AvgRF	CCRF	% Dev	----------		
14	I	Fluorene-d10	1.000	1.000	0.0	88	0.00	14.09
16	t	Acenaphthylene	1.411	1.697	-20.3	113	0.00	12.75
17	t	Acenaphthene	0.893	1.076	-20.5	112	0.00	13.11
		----------	AvgRF	CCRF	% Dev	----------		
19	t	Fluorene	0.843	1.061	-25.9	109	0.00	14.15
21	I	Fluoranthene-d10	1.000	1.000	0.0	81	0.00	18.26
22	t	Hexachlorobenzene	0.221	0.270	-22.2	109	0.00	15.26
		----------	AvgRF	CCRF	% Dev	----------		
24	t	Phenanthrene	0.931	1.167	-25.3	109	0.00	16.05
25	t	Anthracene	0.795	0.945	-18.9	98	0.00	16.15
26	t	Fluoranthene	0.804	1.037	-29.0	105	0.00	18.29
27	t	Pyrene	0.899	1.100	-22.4	100	0.00	18.67
29	t	Benzo[a]anthracene	0.749	0.986	-31.6#	104	0.00	20.74
30	t	Chrysene	0.856	0.887	-3.6	88	0.00	20.79
31	I	Benzo(a)pyrene-d12	1.000	1.000	0.0	69	0.04	22.83
32	t	Benzo[b]fluoranthene	1.325	1.552	-17.1	83	0.00	22.40
33	t	Benzo[k]fluoranthene	1.116	1.529	-37.0#	93	0.00	22.44
34	t	Benzo[a]pyrene	1.045	1.292	-23.6	89	0.00	22.85
35	t	Indeno[1,2,3-cd]pyrene	1.153	1.406	-21.9	79	0.00	24.45
36	t	Dibenz[a,h]anthracene	0.887	1.101	-24.1	77	0.00	24.49
37	t	Benzo[g,h,i]perylene	1.134	1.388	-22.4	84	0.00	24.88

Initial Calibration Verification

Job Number: JC24978
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR
Sample: E3P2503-ICV2503
Lab FileID: 3P54964.D

```
(#) = Out of Range                SPCC's out = 0  CCC's out = 0
 3p54955.D  M3P2503SIM.M       Mon Jul 11 10:10:11 2016
```

Initial Calibration Verification

Job Number: JC24978
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR
Sample: E3P2503-ICV2503
Lab FileID: 3P54965.D

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\data\E3P2503\3p54965.D          Vial: 12
Acq On    :  6 Jul 2016   6:08 pm                     Operator: hankc
Sample    : icv2503-1.0                               Inst    : MSGC3P
Misc      : op95179a,e3p2503                          Multiplr: 1.00
MS Integration Params: lscint.p

Method       : C:\MSDCHEM\1\METHODS\M3P2503SIM.M (RTE Integrator)
Title        : Semi Volatile Extractables by GC/MS
Last Update  : Wed Jul 06 17:34:10 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	99	0.00	11.10
	----------	True	Calc.	% Drift	----------		
5	Phenol	5.000	6.972	-39.4#	133	-0.01	6.61
	----------	AvgRF	CCRF	% Dev	----------		
14 I	Fluorene-d10	1.000	1.000	0.0	87	0.00	14.09
	----------	True	Calc.	% Drift	----------		
18 t	4,6-dinitro-2-methylpheno	5.000	3.887	22.3	72	-0.02	14.28
	----------	AvgRF	CCRF	% Dev	----------		
21 I	Fluoranthene-d10	1.000	1.000	0.0	79	0.00	18.26
	----------	True	Calc.	% Drift	----------		
23 t	Pentachlorophenol	5.000	4.412	11.8	71	0.00	15.67

(#) = Out of Range SPCC's out = 0 CCC's out = 0
3p54955.D M3P2503SIM.M Mon Jul 11 10:10:13 2016

Continuing Calibration Summary

Job Number: JC24978 **Sample:** E3P2534-CC2503
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 3P55401.D
Project: BMSMC, Building 5 Area, PR

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\data\E3P2534\3p55401.D          Vial: 2
Acq On    :  2 Aug 2016   9:07 am                    Operator: ashleyd
Sample    : cc2503-1                                 Inst    : MSGC3P
Misc      : op95837a,e3p2534                         Multiplr: 1.00
MS Integration Params: lscint.p

Method       : C:\MSDCHEM\1\METHODS\M3P2503SIM.M (RTE Integrator)
Title        : Semi Volatile Extractables by GC/MS
Last Update  : Wed Jul 06 17:34:10 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	122	0.00	10.77
2	t	1,4-dioxane	0.403	0.482	-19.6	140	-0.06	2.49
3	S	2-Fluorophenol	0.646	0.656	-1.5	135	-0.13	4.76
4	S	Phenol-d5	0.864	0.841	2.7	136	-0.08	6.33
		----------	True	Calc.	% Drift	----------		
5		Phenol	5.000	5.707	-14.1	138	-0.08	6.35
		----------	AvgRF	CCRF	% Dev	----------		
6	t	bis(2-Chloroethyl)ether	0.713	0.677	5.0	142	0.00	6.46
7	S	Nitrobenzene-d5	0.650	0.714	-9.8	145	-0.06	7.89
8	t	Nitrobenzene	0.722	0.688	4.7	138	-0.08	7.91
9	t	Naphthalene	2.629	2.443	7.1	130	-0.04	9.29
10	t	Hexachlorobutadiene	0.445	0.402	9.7	135	-0.03	9.59
11	t	2-Methylnaphthalene	1.414	1.156	18.2	119	0.00	10.65
12	t	1-Methylnaphthalene	1.112	1.152	-3.6	139	-0.01	10.82
		----------	True	Calc.	% Drift	----------		
13		Hexachlorocyclopentadiene	2.000	1.665	16.8	102	0.00	11.01
		----------	AvgRF	CCRF	% Dev	----------		
14	I	Fluorene-d10	1.000	1.000	0.0	134	0.00	13.74
15	S	2-Fluorobiphenyl	0.984	0.859	12.7	138	-0.05	11.41
16	t	Acenaphthylene	1.411	1.122	20.5#	114	-0.04	12.39
17	t	Acenaphthene	0.893	0.944	-5.7	150	-0.02	12.76
		----------	True	Calc.	% Drift	----------		
18	t	4,6-dinitro-2-methylpheno	5.000	6.294	-25.9#	207	0.00	13.95
		----------	AvgRF	CCRF	% Dev	----------		
19	t	Fluorene	0.843	0.814	3.4	127	0.00	13.80
20	S	2,4,6-Tribromophenol	0.125	0.134	-7.2	132	0.01	14.29
21	I	Fluoranthene-d10	1.000	1.000	0.0	129	0.00	17.91
22	t	Hexachlorobenzene	0.221	0.205	7.2	131	-0.06	14.91
		----------	True	Calc.	% Drift	----------		
23	t	Pentachlorophenol	5.000	4.481	10.4	118	-0.05	15.32
		----------	AvgRF	CCRF	% Dev	----------		
24	t	Phenanthrene	0.931	0.931	0.0	139	0.00	15.68

Continuing Calibration Summary

Job Number: JC24978 **Sample:** E3P2534-CC2503
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 3P55401.D
Project: BMSMC, Building 5 Area, PR

25	t	Anthracene	0.795	0.757	4.8	125	0.00	15.79
26	t	Fluoranthene	0.804	0.822	-2.2	132	0.00	17.94
27	t	Pyrene	0.899	0.924	-2.8	133	0.00	18.32
28	S	Terphenyl-d14	0.527	0.447	15.2	132	0.03	18.69
29	t	Benzo[a]anthracene	0.749	0.837	-11.7	140	0.00	20.39
30	t	Chrysene	0.856	0.807	5.7	127	0.00	20.45
31	I	Benzo(a)pyrene-d12	1.000	1.000	0.0	128	0.00	22.48
32	t	Benzo[b]fluoranthene	1.325	1.299	2.0	130	0.00	22.06
33	t	Benzo[k]fluoranthene	1.116	1.044	6.5	118	0.00	22.09
34	t	Benzo[a]pyrene	1.045	0.870	16.7	112	0.00	22.50
35	t	Indeno[1,2,3-cd]pyrene	1.153	1.201	-4.2	127	-0.05	24.02
36	t	Dibenz[a,h]anthracene	0.887	0.935	-5.4	121	-0.05	24.06
37	t	Benzo[g,h,i]perylene	1.134	1.049	7.5	118	-0.10	24.40

(#) = Out of Range SPCC's out = 0 CCC's out = 0
3p54955.D M3P2503SIM.M Tue Aug 02 12:17:46 2016

6.7.23

6

Continuing Calibration Summary

Job Number: JC24978 **Sample:** E3P2546-CC2503
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 3P55586.D
Project: BMSMC, Building 5 Area, PR

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\data\E3P2546\3p55586.D          Vial: 2
Acq On    :  9 Aug 2016   2:35 pm                    Operator: ashleyd
Sample    : cc2503-0.5                               Inst    : MSGC3P
Misc      : op95964a,e3p2546                         Multiplr: 1.00
MS Integration Params: lscint.p

Method       : C:\MSDCHEM\1\METHODS\M3P2503SIM.M (RTE Integrator)
Title        : Semi Volatile Extractables by GC/MS
Last Update  : Wed Jul 06 17:34:10 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	115	-0.04	10.84
2	t	1,4-dioxane	0.403	0.428	-6.2	142	-0.02	2.55
3	S	2-Fluorophenol	0.646	0.626	3.1	126	-0.10	4.84
4	S	Phenol-d5	0.864	0.857	0.8	129	-0.07	6.40
		----------	True	Calc.	% Drift		----------	
5		Phenol	2.500	2.791	-11.6	133	-0.07	6.43
		----------	AvgRF	CCRF	% Dev		----------	
6	t	bis(2-Chloroethyl)ether	0.713	0.684	4.1	136	0.00	6.53
7	S	Nitrobenzene-d5	0.650	0.738	-13.5	134	-0.07	7.97
8	t	Nitrobenzene	0.722	0.710	1.7	125	0.00	7.99
9	t	Naphthalene	2.629	2.603	1.0	131	-0.08	9.34
10	t	Hexachlorobutadiene	0.445	0.395	11.2	121	-0.07	9.65
11	t	2-Methylnaphthalene	1.414	1.342	5.1	120	-0.06	10.70
12	t	1-Methylnaphthalene	1.112	1.240	-11.5	141	-0.05	10.89
		----------	True	Calc.	% Drift		----------	
13		Hexachlorocyclopentadiene	1.000	0.896	10.4	112	-0.04	11.08
		----------	AvgRF	CCRF	% Dev		----------	
14	I	Fluorene-d10	1.000	1.000	0.0	125	-0.03	13.81
15	S	2-Fluorobiphenyl	0.984	1.120	-13.8	152	-0.07	11.48
16	t	Acenaphthylene	1.411	1.481	-5.0	128	-0.02	12.46
17	t	Acenaphthene	0.893	1.036	-16.0	148	-0.05	12.83
		----------	True	Calc.	% Drift		----------	
18	t	4,6-dinitro-2-methylpheno	2.500	3.938	-57.5#	259	-0.03	14.02
		----------	AvgRF	CCRF	% Dev		----------	
19	t	Fluorene	0.843	0.949	-12.6	143	-0.05	13.85
20	S	2,4,6-Tribromophenol	0.125	0.161	-28.8#	152	-0.03	14.36
21	I	Fluoranthene-d10	1.000	1.000	0.0	136	-0.04	17.97
22	t	Hexachlorobenzene	0.221	0.240	-8.6	147	-0.08	14.97
		----------	True	Calc.	% Drift		----------	
23	t	Pentachlorophenol	2.500	2.625	-5.0	164	-0.06	15.40
		----------	AvgRF	CCRF	% Dev		----------	
24	t	Phenanthrene	0.931	1.064	-14.3	145	-0.01	15.76

Continuing Calibration Summary

Job Number: JC24978 **Sample:** E3P2546-CC2503
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 3P55586.D
Project: BMSMC, Building 5 Area, PR

25	t	Anthracene	0.795	0.907	-14.1	149	-0.03	15.85
26	t	Fluoranthene	0.804	0.907	-12.8	153	-0.04	18.00
27	t	Pyrene	0.899	1.081	-20.2#	161	-0.04	18.38
28	S	Terphenyl-d14	0.527	0.572	-8.5	154	-0.02	18.76
29	t	Benzo[a]anthracene	0.749	1.096	-46.3#	199	-0.06	20.45
30	t	Chrysene	0.856	1.006	-17.5	153	-0.06	20.52
31	I	Benzo(a)pyrene-d12	1.000	1.000	0.0	160	-0.03	22.53
32	t	Benzo[b]fluoranthene	1.325	1.552	-17.1	187	-0.02	22.12
33	t	Benzo[k]fluoranthene	1.116	1.039	6.9	152	-0.07	22.15
34	t	Benzo[a]pyrene	1.045	0.932	10.8	160	-0.04	22.55
35	t	Indeno[1,2,3-cd]pyrene	1.153	1.844	-59.9#	271#	-0.07	24.10
36	t	Dibenz[a,h]anthracene	0.887	1.404	-58.3#	256#	-0.09	24.11
37	t	Benzo[g,h,i]perylene	1.134	1.617	-42.6#	234#	-0.12	24.47

(#) = Out of Range SPCC's out = 0 CCC's out = 0
3p54963.D M3P2503SIM.M Tue Aug 09 16:46:29 2016

GC/MS Semi-volatiles

Raw Data

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E2M3807\
Data File : 2m85994.D
Acq On : 31 Jul 2016 2:00 pm
Operator : kristis
Sample : jc24978-1
Misc : op95939a,e2m3807,910,,,1,1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jul 31 15:56:41 2016
Quant Method : C:\MSDCHEM\1\METHODS\M2M3789.M
Quant Title : Semi Volatile GC/MS,rxi 5sil ms 30m .25mm .25um
QLast Update : Thu Jul 28 23:07:38 2016
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.702	152	75479	40.00 ppm	-0.02
24) Naphthalene-d8	5.793	136	309629	40.00 ppm	-0.02
47) Acenaphthene-d10	7.863	164	175582	40.00 ppm	-0.03
69) Phenanthrene-d10	10.035	188	272153	40.00 ppm	-0.03
83) Chrysene-d12	14.212	240	190634	40.00 ppm	-0.04
91) Perylene-d12	16.325	264	188578	40.00 ppm	-0.03
101) 1,4-Dichlorobenzene-d4a	4.702	152	75479	40.00 ppm	-0.02
103) Acenaphthene-d10a	7.863	164	175582	40.00 ppm	-0.03
105) Chrysene-d12a	14.212	240	190634	40.00 ppm	-0.04
107) Phenanthrene-d10a	10.035	188	272153	40.00 ppm	-0.03
109) Naphthalene-d8a	5.793	136	309629	40.00 ppm	-0.02

System Monitoring Compounds					
5) 2-Fluorophenol	3.729	112	51826	19.69 ppm	-0.02
Spiked Amount 50.000			Recovery	= 39.38%	
8) Phenol-d5	4.446	99	43299	12.96 ppm	0.00
Spiked Amount 50.000			Recovery	= 25.92%	
25) Nitrobenzene-d5	5.146	82	100197	35.39 ppm	-0.02
Spiked Amount 50.000			Recovery	= 70.78%	
51) 2-Fluorobiphenyl	6.992	172	183744	34.42 ppm	-0.03
Spiked Amount 50.000			Recovery	= 68.84%	
73) 2,4,6-Tribromophenol	8.997	330	22116	39.73 ppm	-0.04
Spiked Amount 50.000			Recovery	= 79.46%	
85) Terphenyl-d14	12.586	244	149261	38.39 ppm	-0.04
Spiked Amount 50.000			Recovery	= 76.78%	

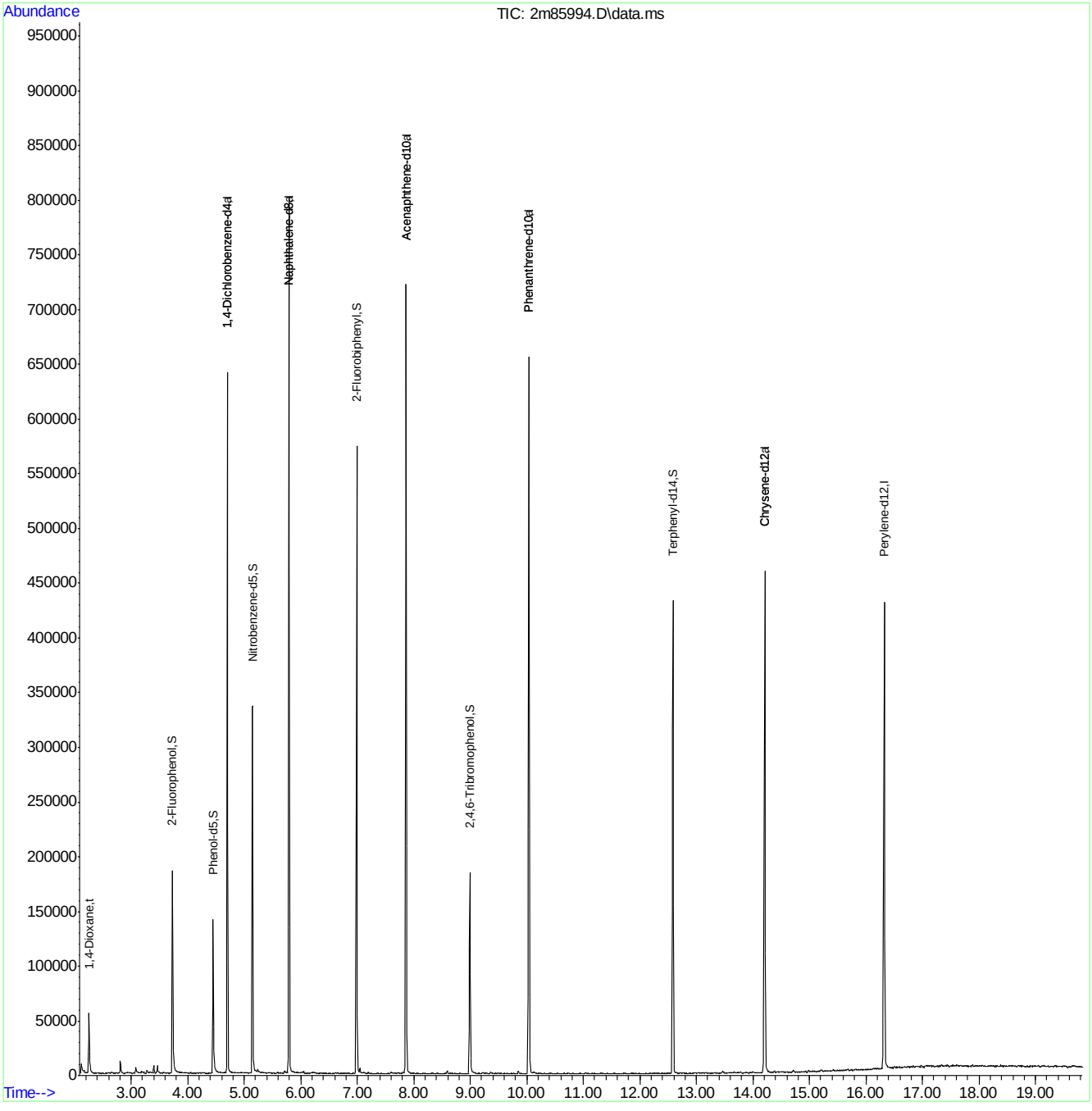
Target Compounds					Qvalue
2) 1,4-Dioxane	2.253	88	18183	13.14 ppm	98

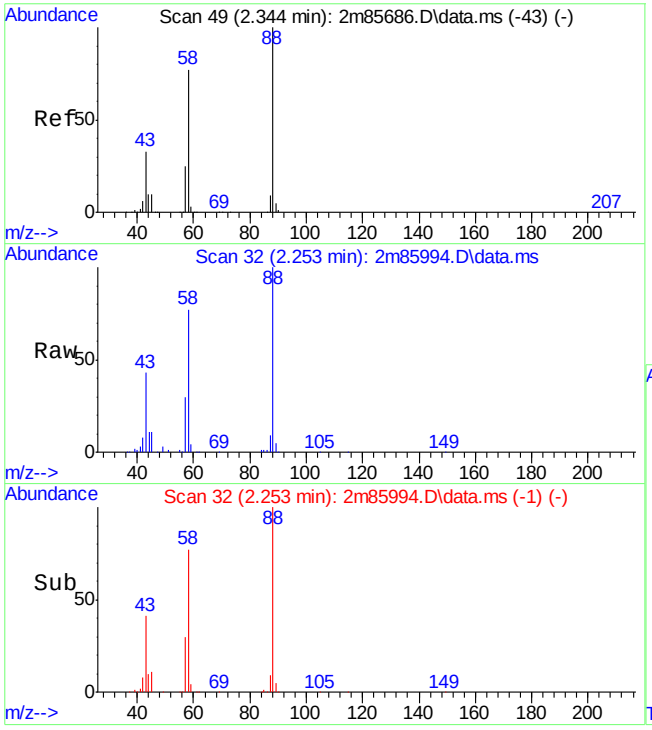
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E2M3807\
Data File : 2m85994.D
Acq On : 31 Jul 2016 2:00 pm
Operator : kristis
Sample : jc24978-1
Misc : op95939a,e2m3807,910,,,1,1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jul 31 15:56:41 2016
Quant Method : C:\MSDCHEM\1\METHODS\M2M3789.M
Quant Title : Semi Volatile GC/MS,rxi 5sil ms 30m .25mm .25um
QLast Update : Thu Jul 28 23:07:38 2016
Response via : Initial Calibration

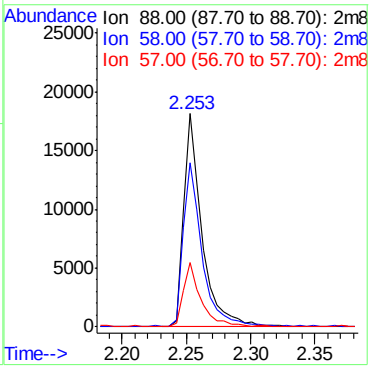




#2
1,4-Dioxane
Concen: 13.14 ppm
RT: 2.253 min Scan# 32
Delta R.T. -0.059 min
Lab File: 2m85994.D
Acq: 31 Jul 2016 2:00 pm

Tgt Ion: 88 Resp: 18183

Ion	Ratio	Lower	Upper
88	100		
58	77.0	46.9	106.9
57	30.1	0.0	55.4



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M3004\
Data File : 3m63395.D
Acq On : 2 Aug 2016 1:04 pm
Operator : SHANICEG
Sample : jc24978-1
Misc : op95939a,e3m3004,910
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 02 15:04:35 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2975SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Tue Aug 02 08:23:04 2016
Response via : Initial Calibration

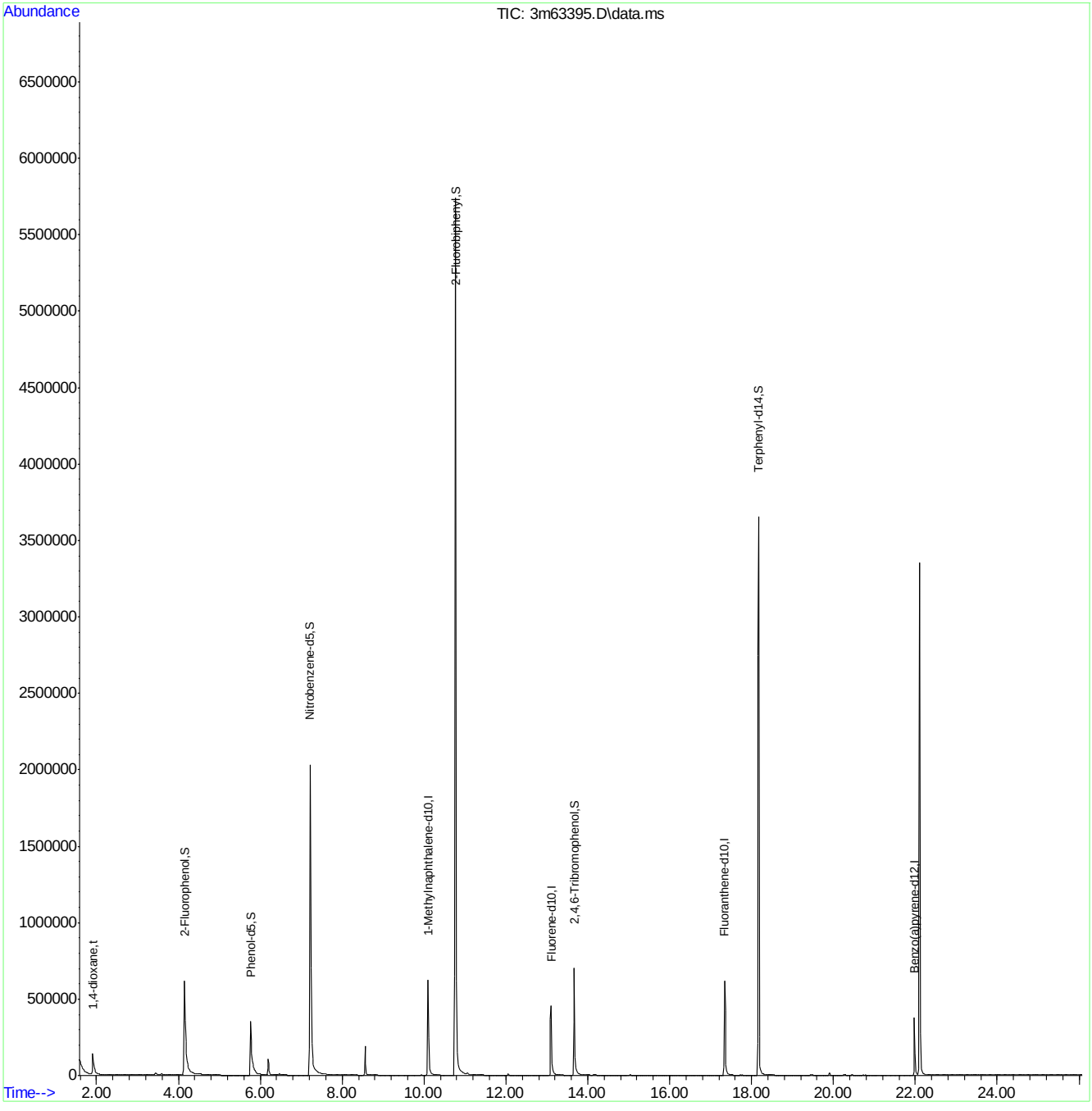
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	10.097	150	427925	4.00	ppm	-0.12
14) Fluorene-d10	13.107	176	597178	4.00	ppm	-0.04
21) Fluoranthene-d10	17.341	212	930669	4.00	ppm	-0.08
31) Benzo(a)pyrene-d12	21.978	264	464330	4.00	ppm	-0.09
System Monitoring Compounds						
3) 2-Fluorophenol	4.152	112	953425	16.01	ppm	-0.12
Spiked Amount 50.000			Recovery = 32.02%			
4) Phenol-d5	5.770	99	1063366	12.07	ppm	-0.10
Spiked Amount 50.000			Recovery = 24.14%			
7) Nitrobenzene-d5	7.222	82	2841055	34.35	ppm	-0.15
Spiked Amount 50.000			Recovery = 68.70%			
15) 2-Fluorobiphenyl	10.774	172	5125581	31.63	ppm	-0.10
Spiked Amount 50.000			Recovery = 63.26%			
20) 2,4,6-Tribromophenol	13.672	330	622225	24.90	ppm	-0.03
Spiked Amount 50.000			Recovery = 49.80%			
28) Terphenyl-d14	18.176	244	4141248	29.16	ppm	-0.07
Spiked Amount 50.000			Recovery = 58.32%			
Target Compounds						Qvalue
2) 1,4-dioxane	1.911	88	153828	6.54	ppm	# 1

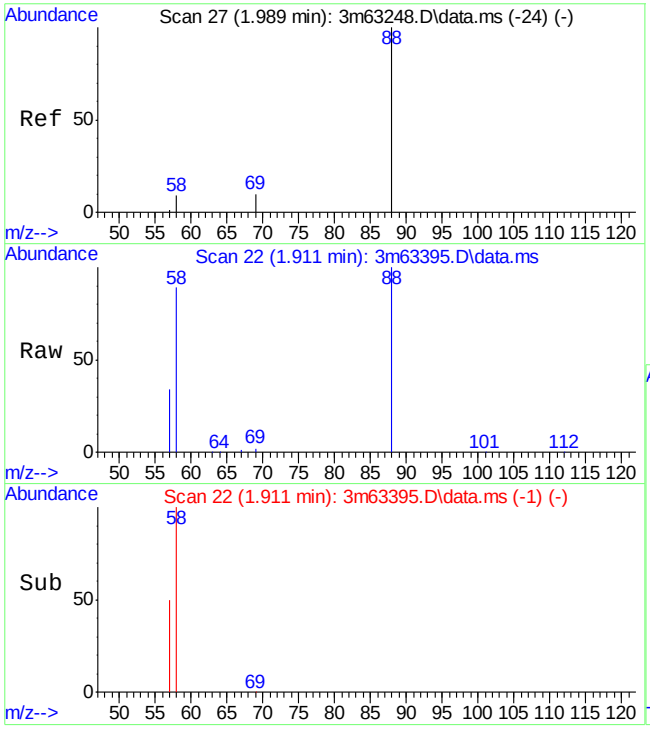
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M3004\
Data File : 3m63395.D
Acq On : 2 Aug 2016 1:04 pm
Operator : SHANICEG
Sample : jc24978-1
Misc : op95939a,e3m3004,910
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 02 15:04:35 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2975SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Tue Aug 02 08:23:04 2016
Response via : Initial Calibration

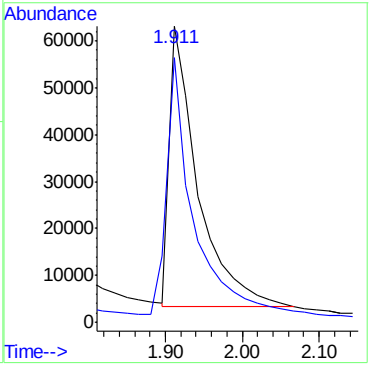




#2
1,4-dioxane
Concen: 6.54 ppm
RT: 1.911 min Scan# 22
Delta R.T. -0.047 min
Lab File: 3m63395.D
Acq: 2 Aug 2016 1:04 pm

Tgt Ion: 88 Resp: 153828

Ion	Ratio	Lower	Upper
88	100		
58	81.1	264.3	304.3#



7.1.2

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E2M3807\
Data File : 2m85995.D
Acq On : 31 Jul 2016 2:26 pm
Operator : kristis
Sample : jc24978-2
Misc : op95939a,e2m3807,950,,,1,1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jul 31 15:57:08 2016
Quant Method : C:\MSDCHEM\1\METHODS\M2M3789.M
Quant Title : Semi Volatile GC/MS,rxi 5sil ms 30m .25mm .25um
QLast Update : Thu Jul 28 23:07:38 2016
Response via : Initial Calibration

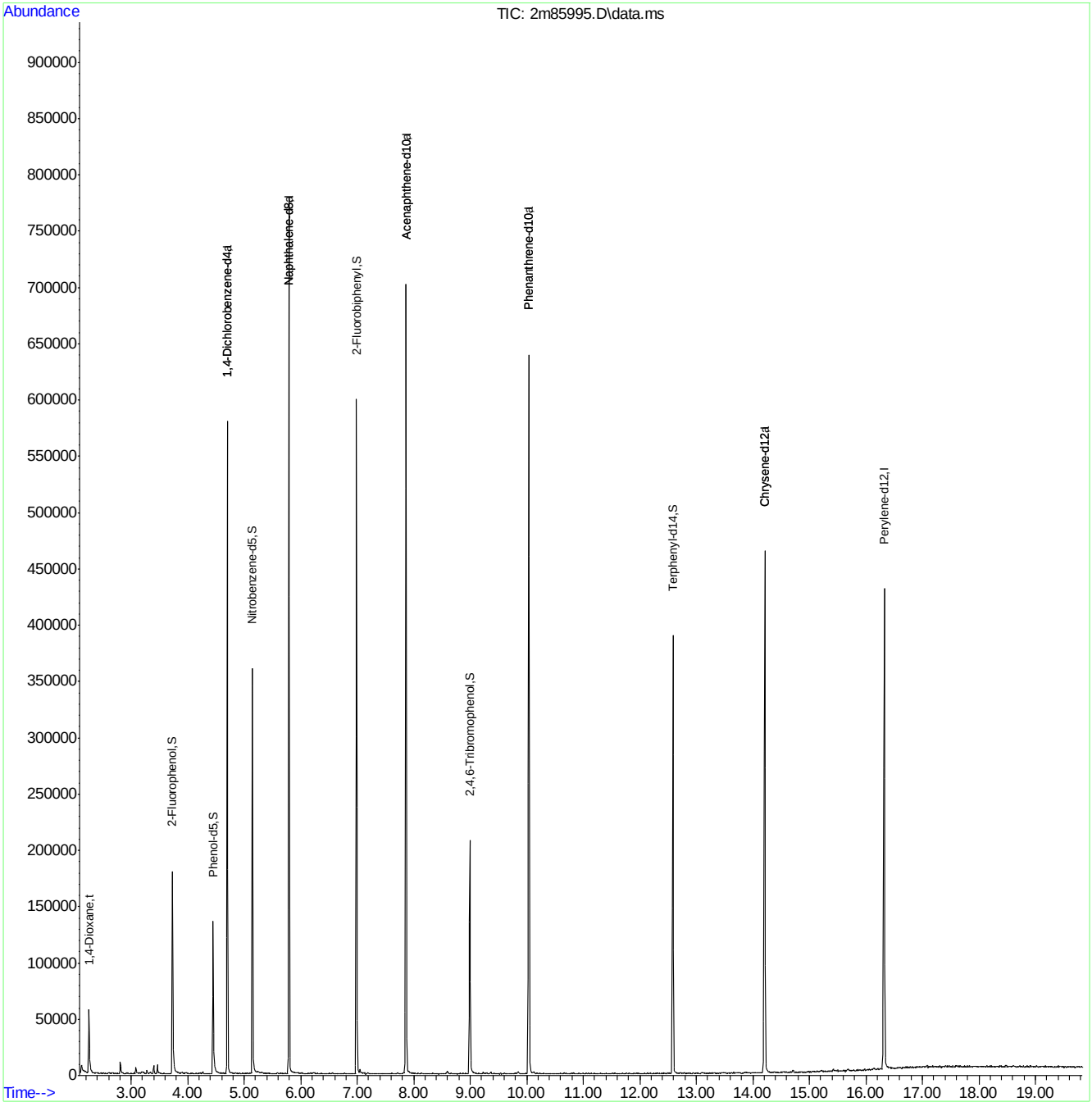
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.702	152	71781	40.00 ppm	-0.02
24) Naphthalene-d8	5.794	136	295833	40.00 ppm	-0.02
47) Acenaphthene-d10	7.864	164	167187	40.00 ppm	-0.03
69) Phenanthrene-d10	10.035	188	264809	40.00 ppm	-0.03
83) Chrysene-d12	14.212	240	191351	40.00 ppm	-0.04
91) Perylene-d12	16.325	264	186051	40.00 ppm	-0.03
101) 1,4-Dichlorobenzene-d4a	4.702	152	71781	40.00 ppm	-0.02
103) Acenaphthene-d10a	7.864	164	167187	40.00 ppm	-0.03
105) Chrysene-d12a	14.212	240	191351	40.00 ppm	-0.04
107) Phenanthrene-d10a	10.035	188	264809	40.00 ppm	-0.03
109) Naphthalene-d8a	5.794	136	295833	40.00 ppm	-0.02
System Monitoring Compounds					
5) 2-Fluorophenol	3.734	112	50917	20.34 ppm	-0.01
Spiked Amount 50.000			Recovery	= 40.68%	
8) Phenol-d5	4.446	99	42141	13.26 ppm	0.00
Spiked Amount 50.000			Recovery	= 26.52%	
25) Nitrobenzene-d5	5.141	82	104611	38.67 ppm	-0.02
Spiked Amount 50.000			Recovery	= 77.34%	
51) 2-Fluorobiphenyl	6.992	172	195653	38.49 ppm	-0.03
Spiked Amount 50.000			Recovery	= 76.98%	
73) 2,4,6-Tribromophenol	8.997	330	22999	42.46 ppm	-0.04
Spiked Amount 50.000			Recovery	= 84.92%	
85) Terphenyl-d14	12.586	244	128216	32.85 ppm	-0.04
Spiked Amount 50.000			Recovery	= 65.70%	
Target Compounds					Qvalue
2) 1,4-Dioxane	2.253	88	20451	15.54 ppm	95

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

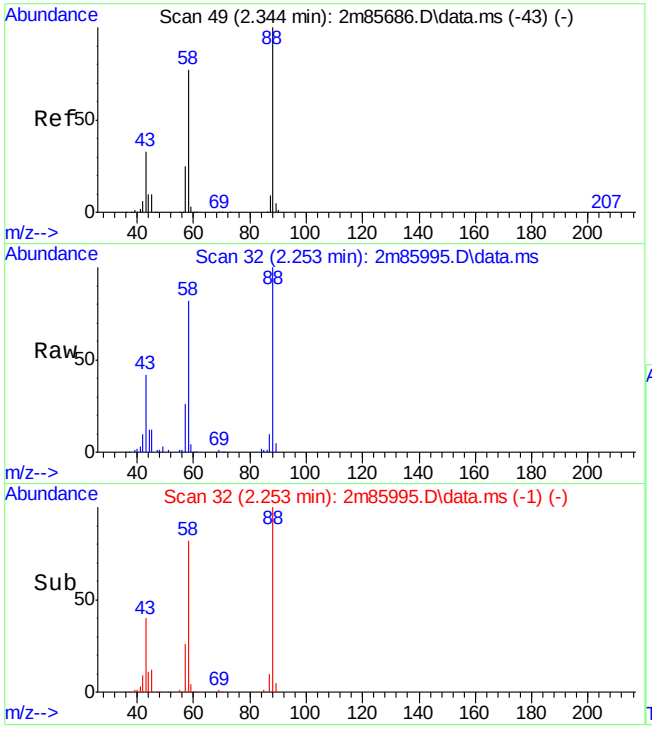
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E2M3807\
Data File : 2m85995.D
Acq On : 31 Jul 2016 2:26 pm
Operator : kristis
Sample : jc24978-2
Misc : op95939a,e2m3807,950,,,1,1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jul 31 15:57:08 2016
Quant Method : C:\MSDCHEM\1\METHODS\M2M3789.M
Quant Title : Semi Volatile GC/MS,rxi 5sil ms 30m .25mm .25um
QLast Update : Thu Jul 28 23:07:38 2016
Response via : Initial Calibration



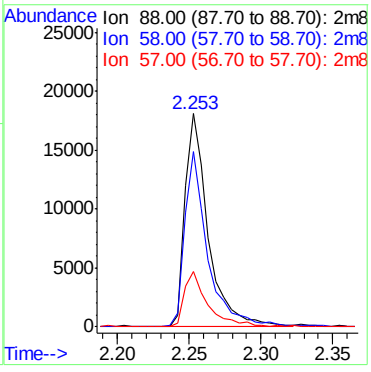
M2M3789.M Sun Jul 31 15:57:17 2016 Page: 2



#2
1,4-Dioxane
Concen: 15.54 ppm
RT: 2.253 min Scan# 32
Delta R.T. -0.059 min
Lab File: 2m85995.D
Acq: 31 Jul 2016 2:26 pm

Tgt Ion: 88 Resp: 20451

Ion	Ratio	Lower	Upper
88	100		
58	81.9	46.9	106.9
57	25.9	0.0	55.4



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M3004\
Data File : 3m63396.D
Acq On : 2 Aug 2016 1:37 pm
Operator : SHANICEG
Sample : jc24978-2
Misc : op95939a,e3m3004,950
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 02 15:05:39 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2975SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Tue Aug 02 08:23:04 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	10.097	150	436639	4.00	ppm	-0.12
14) Fluorene-d10	13.107	176	606328	4.00	ppm	-0.04
21) Fluoranthene-d10	17.341	212	948871	4.00	ppm	-0.08
31) Benzo(a)pyrene-d12	21.978	264	510458	4.00	ppm	-0.09
System Monitoring Compounds						
3) 2-Fluorophenol	4.152	112	967336	15.92	ppm	-0.12
Spiked Amount 50.000			Recovery = 31.84%			
4) Phenol-d5	5.770	99	1063442	11.83	ppm	-0.10
Spiked Amount 50.000			Recovery = 23.66%			
7) Nitrobenzene-d5	7.222	82	3046692	36.10	ppm	-0.15
Spiked Amount 50.000			Recovery = 72.20%			
15) 2-Fluorobiphenyl	10.774	172	5358478	32.56	ppm	-0.10
Spiked Amount 50.000			Recovery = 65.12%			
20) 2,4,6-Tribromophenol	13.672	330	600697	23.68	ppm	-0.03
Spiked Amount 50.000			Recovery = 47.36%			
28) Terphenyl-d14	18.160	244	3655552	25.25	ppm	-0.09
Spiked Amount 50.000			Recovery = 50.50%			
Target Compounds						Qvalue
2) 1,4-dioxane	1.911	88	189819	7.90	ppm	# 1

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

7.1.4

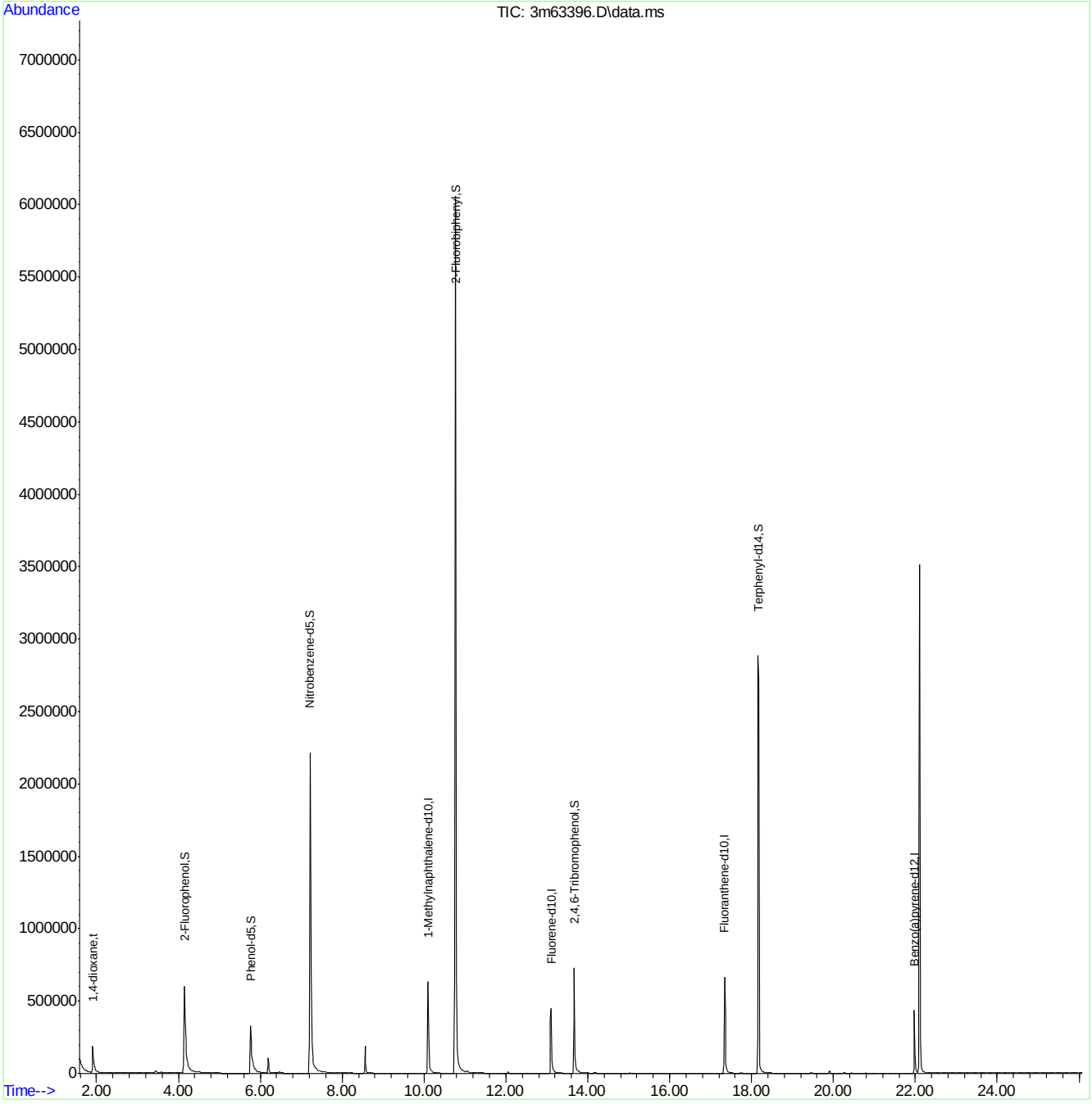
7

SGS ACCUTEST JC24978

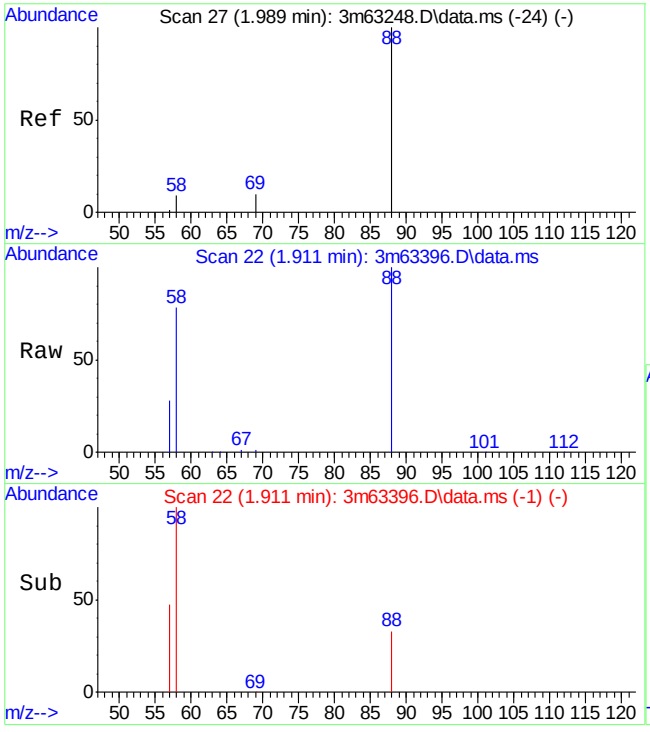
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M3004\
Data File : 3m63396.D
Acq On : 2 Aug 2016 1:37 pm
Operator : SHANICEG
Sample : jc24978-2
Misc : op95939a,e3m3004,950
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 02 15:05:39 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2975SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Tue Aug 02 08:23:04 2016
Response via : Initial Calibration



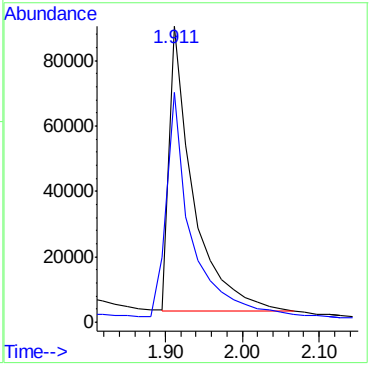
SGS ACCUTEST JC24978



#2
1,4-dioxane
Concen: 7.90 ppm
RT: 1.911 min Scan# 22
Delta R.T. -0.047 min
Lab File: 3m63396.D
Acq: 2 Aug 2016 1:37 pm

Tgt Ion: 88 Resp: 189819

Ion	Ratio	Lower	Upper
88	100		
58	68.2	264.3	304.3#



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E2M3807\
Data File : 2m85996.D
Acq On : 31 Jul 2016 2:52 pm
Operator : kristis
Sample : jc24978-3
Misc : op95939a,e2m3807,930,,,1,1
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jul 31 15:57:29 2016
Quant Method : C:\MSDCHEM\1\METHODS\M2M3789.M
Quant Title : Semi Volatile GC/MS,rxi 5sil ms 30m .25mm .25um
QLast Update : Thu Jul 28 23:07:38 2016
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.702	152	73802	40.00	ppm	-0.02
24) Naphthalene-d8	5.793	136	305884	40.00	ppm	-0.02
47) Acenaphthene-d10	7.863	164	174318	40.00	ppm	-0.03
69) Phenanthrene-d10	10.035	188	271689	40.00	ppm	-0.03
83) Chrysene-d12	14.212	240	195198	40.00	ppm	-0.04
91) Perylene-d12	16.325	264	190116	40.00	ppm	-0.03
101) 1,4-Dichlorobenzene-d4a	4.702	152	73802	40.00	ppm	-0.02
103) Acenaphthene-d10a	7.863	164	174318	40.00	ppm	-0.03
105) Chrysene-d12a	14.212	240	195198	40.00	ppm	-0.04
107) Phenanthrene-d10a	10.035	188	271689	40.00	ppm	-0.03
109) Naphthalene-d8a	5.793	136	305884	40.00	ppm	-0.02

System Monitoring Compounds						
5) 2-Fluorophenol	3.734	112	46055	17.90	ppm	-0.01
Spiked Amount 50.000			Recovery = 35.80%			
8) Phenol-d5	4.445	99	39138	11.98	ppm	0.00
Spiked Amount 50.000			Recovery = 23.96%			
25) Nitrobenzene-d5	5.146	82	93441	33.40	ppm	-0.02
Spiked Amount 50.000			Recovery = 66.80%			
51) 2-Fluorobiphenyl	6.991	172	169320	31.95	ppm	-0.03
Spiked Amount 50.000			Recovery = 63.90%			
73) 2,4,6-Tribromophenol	8.997	330	20092	36.15	ppm	-0.04
Spiked Amount 50.000			Recovery = 72.30%			
85) Terphenyl-d14	12.586	244	116593	29.28	ppm	-0.04
Spiked Amount 50.000			Recovery = 58.56%			

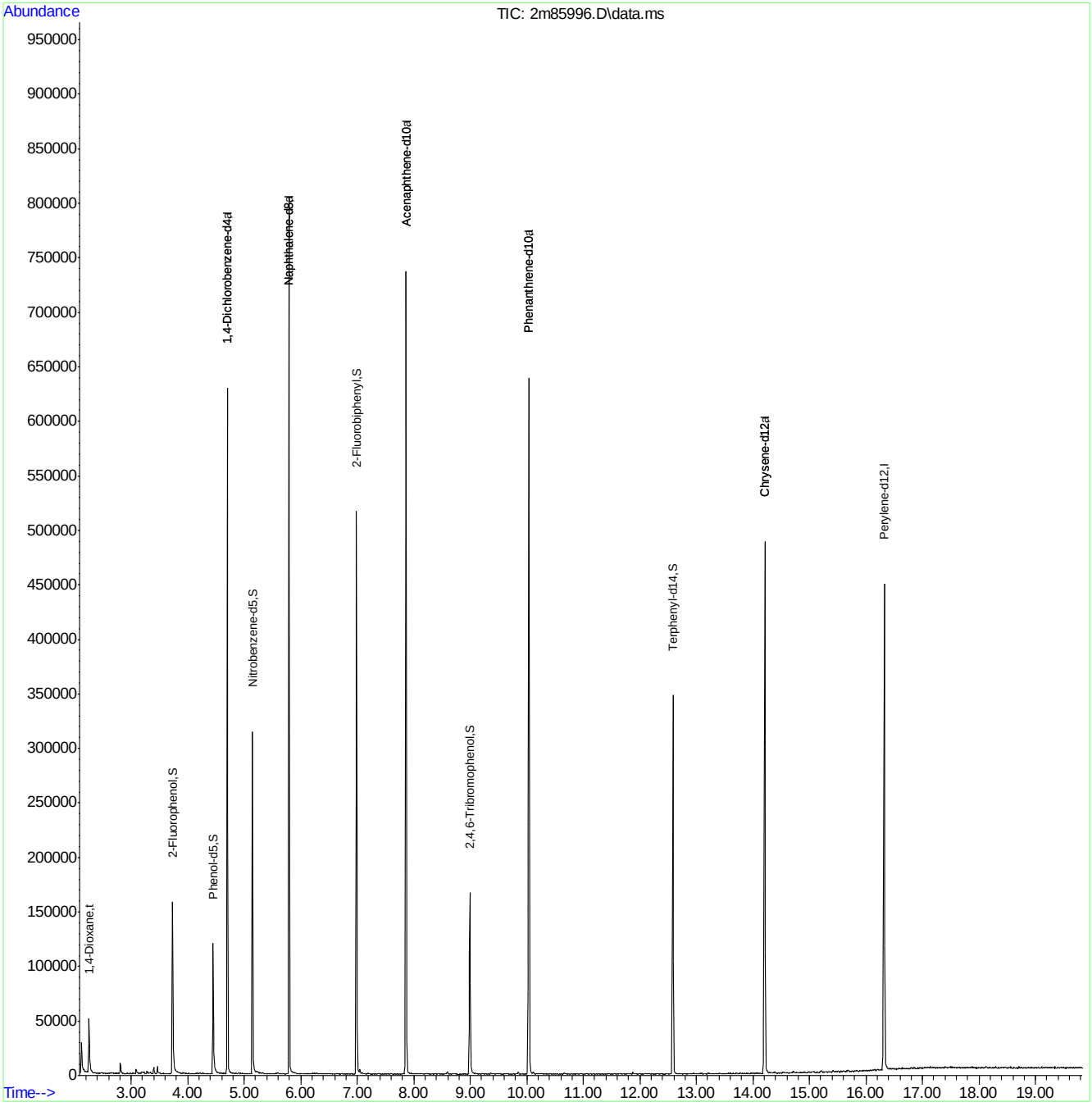
Target Compounds						Qvalue
2) 1,4-Dioxane	2.253	88	18486	13.66	ppm	89

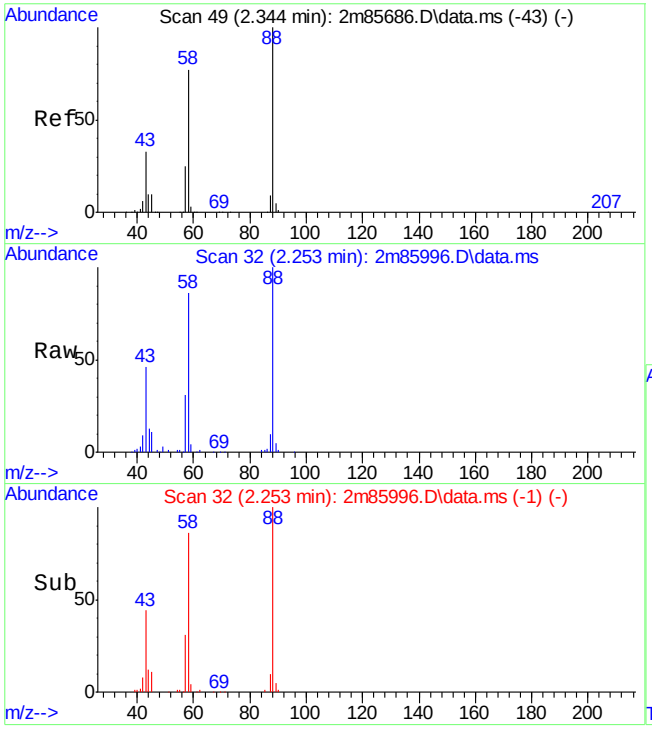
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E2M3807\
Data File : 2m85996.D
Acq On : 31 Jul 2016 2:52 pm
Operator : kristis
Sample : jc24978-3
Misc : op95939a,e2m3807,930,,,1,1
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jul 31 15:57:29 2016
Quant Method : C:\MSDCHEM\1\METHODS\M2M3789.M
Quant Title : Semi Volatile GC/MS,rxi 5sil ms 30m .25mm .25um
QLast Update : Thu Jul 28 23:07:38 2016
Response via : Initial Calibration

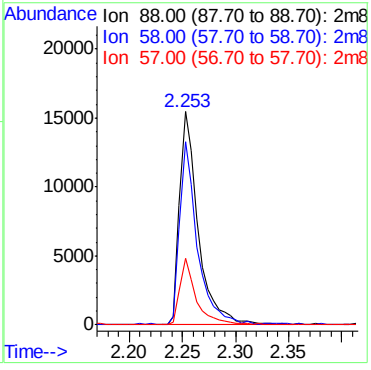




#2
1,4-Dioxane
Concen: 13.66 ppm
RT: 2.253 min Scan# 32
Delta R.T. -0.060 min
Lab File: 2m85996.D
Acq: 31 Jul 2016 2:52 pm

Tgt Ion: 88 Resp: 18486

Ion	Ratio	Lower	Upper
88	100		
58	86.1	46.9	106.9
57	31.2	0.0	55.4



7.1.5

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M3004\
Data File : 3m63397.D
Acq On : 2 Aug 2016 2:10 pm
Operator : SHANICEG
Sample : jc24978-3
Misc : op95939a,e3m3004,930
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 02 15:06:20 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2975SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Tue Aug 02 08:23:04 2016
Response via : Initial Calibration

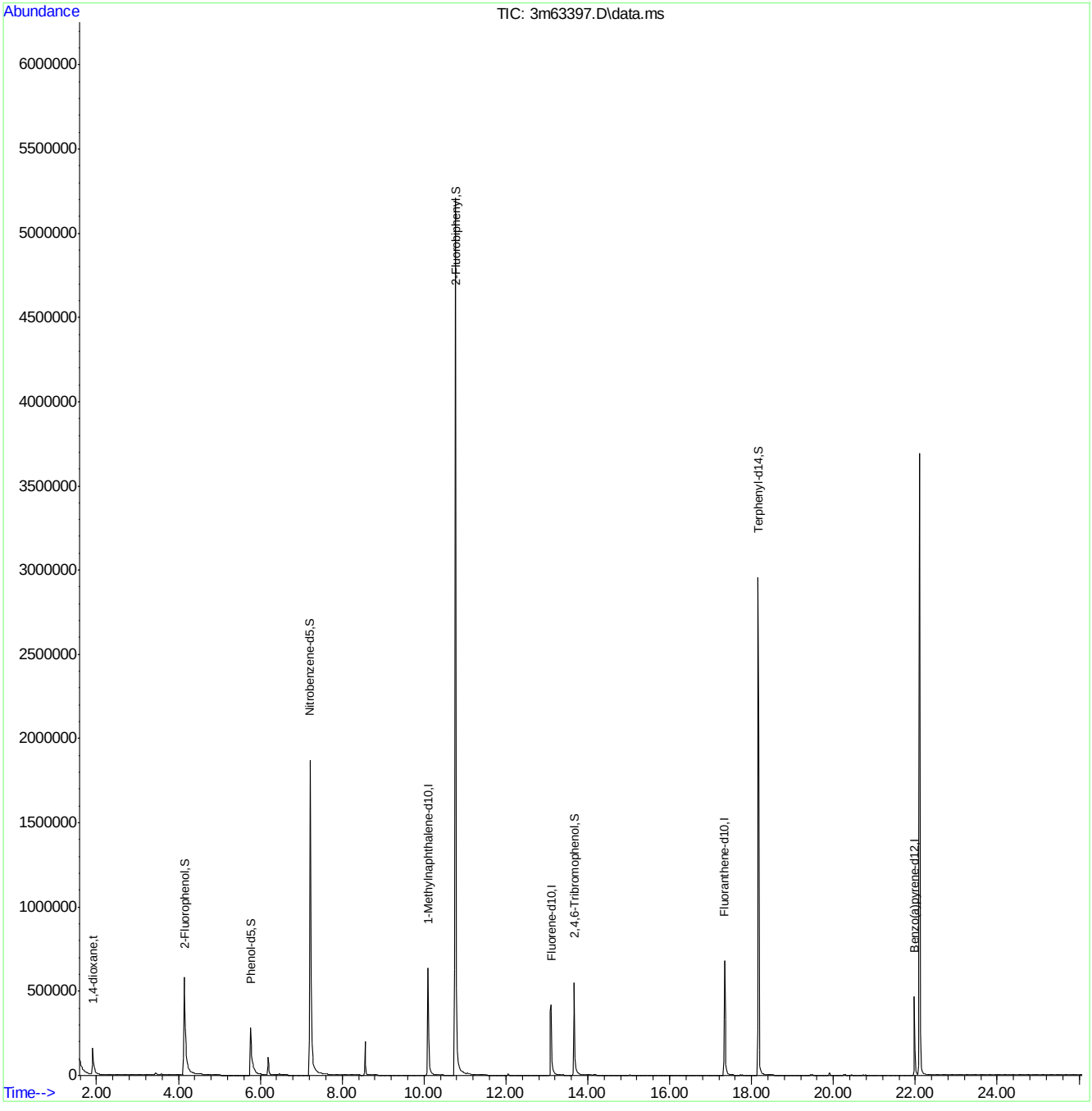
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1-Methylnaphthalene-d10	10.097	150	457243	4.00 ppm	-0.12
14) Fluorene-d10	13.107	176	594464	4.00 ppm	-0.04
21) Fluoranthene-d10	17.341	212	924670	4.00 ppm	-0.08
31) Benzo(a)pyrene-d12	21.978	264	556505	4.00 ppm	-0.09
System Monitoring Compounds					
3) 2-Fluorophenol	4.152	112	874581	13.74 ppm	-0.12
Spiked Amount 50.000				Recovery = 27.48%	
4) Phenol-d5	5.770	99	937671	9.96 ppm	-0.10
Spiked Amount 50.000				Recovery = 19.92%	
7) Nitrobenzene-d5	7.222	82	2615789	29.60 ppm	-0.15
Spiked Amount 50.000				Recovery = 59.20%	
15) 2-Fluorobiphenyl	10.774	172	4696046	29.11 ppm	-0.10
Spiked Amount 50.000				Recovery = 58.22%	
20) 2,4,6-Tribromophenol	13.673	330	554990	22.31 ppm	-0.03
Spiked Amount 50.000				Recovery = 44.62%	
28) Terphenyl-d14	18.160	244	3281851	23.26 ppm	-0.09
Spiked Amount 50.000				Recovery = 46.52%	
Target Compounds					Qvalue
2) 1,4-dioxane	1.911	88	167363	6.66 ppm	# 1

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

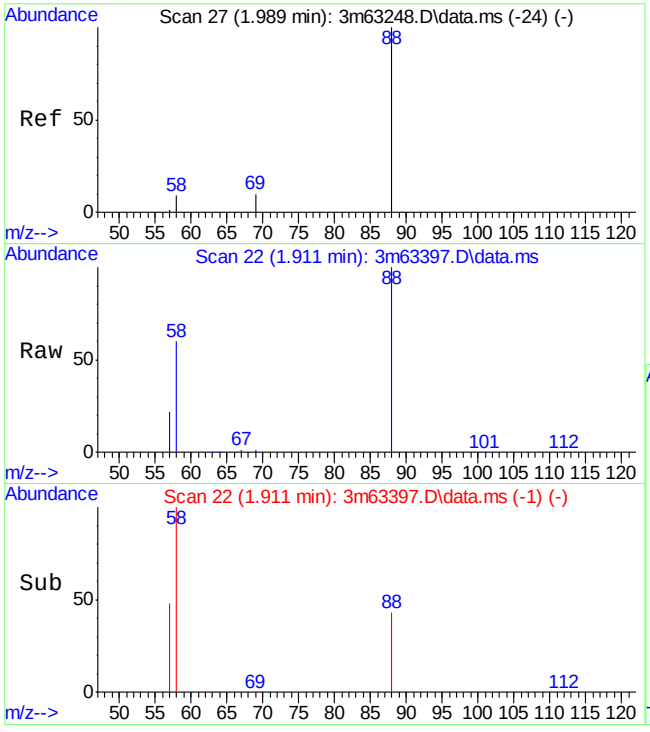
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M3004\
Data File : 3m63397.D
Acq On : 2 Aug 2016 2:10 pm
Operator : SHANICEG
Sample : jc24978-3
Misc : op95939a,e3m3004,930
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 02 15:06:20 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2975SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Tue Aug 02 08:23:04 2016
Response via : Initial Calibration



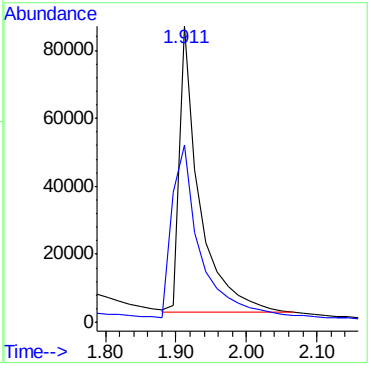
SGS ACCUTEST JC24978



#2
1,4-dioxane
Concen: 6.66 ppm
RT: 1.911 min Scan# 22
Delta R.T. -0.047 min
Lab File: 3m63397.D
Acq: 2 Aug 2016 2:10 pm

Tgt Ion: 88 Resp: 167363

Ion	Ratio	Lower	Upper
88	100		
58	60.2	264.3	304.3#



7.1.6

7

Manual Integrations APPROVED (compounds with "m" flag)
Nina Pandya
08/02/16 15:21

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E2M3808\
Data File : 2m86034.D
Acq On : 1 Aug 2016 5:22 pm
Operator : ashleyn
Sample : jc24978-4
Misc : op95939,e2m3808,930,,,1,40
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Aug 01 19:25:00 2016
Quant Method : C:\MSDCHEM\1\METHODS\M2M3789.M
Quant Title : Semi Volatile GC/MS,rxi 5sil ms 30m .25mm .25um
QLast Update : Thu Jul 28 23:07:38 2016
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.697	152	53472	40.00 ppm	-0.02
24) Naphthalene-d8	5.788	136	212387	40.00 ppm	-0.03
47) Acenaphthene-d10	7.853	164	122454	40.00 ppm	-0.04
69) Phenanthrene-d10	10.024	188	197787	40.00 ppm	-0.04
83) Chrysene-d12	14.202	240	167423	40.00 ppm	-0.05
91) Perylene-d12	16.320	264	171203	40.00 ppm	-0.04
101) 1,4-Dichlorobenzene-d4a	4.697	152	53472	40.00 ppm	-0.02
103) Acenaphthene-d10a	7.853	164	122454	40.00 ppm	-0.04
105) Chrysene-d12a	14.202	240	167423	40.00 ppm	-0.05
107) Phenanthrene-d10a	10.024	188	197787	40.00 ppm	-0.04
109) Naphthalene-d8a	5.788	136	212387	40.00 ppm	-0.03

System Monitoring Compounds					
5) 2-Fluorophenol	3.745	112	909m	0.49 ppm	0.00
Spiked Amount 50.000			Recovery = 0.98%		
8) Phenol-d5	4.467	99	654m	0.28 ppm	0.02
Spiked Amount 50.000			Recovery = 0.56%		
25) Nitrobenzene-d5	5.152	82	2124	1.09 ppm	-0.01
Spiked Amount 50.000			Recovery = 2.18%		
51) 2-Fluorobiphenyl	6.981	172	4413	1.19 ppm	-0.04
Spiked Amount 50.000			Recovery = 2.38%		
73) 2,4,6-Tribromophenol	8.997	330	435m	1.08 ppm	-0.04
Spiked Amount 50.000			Recovery = 2.16%		
85) Terphenyl-d14	12.576	244	3902	1.14 ppm	-0.05
Spiked Amount 50.000			Recovery = 2.28%		

Target Compounds					Qvalue
2) 1,4-Dioxane	2.242	88	29387	29.97 ppm	98

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

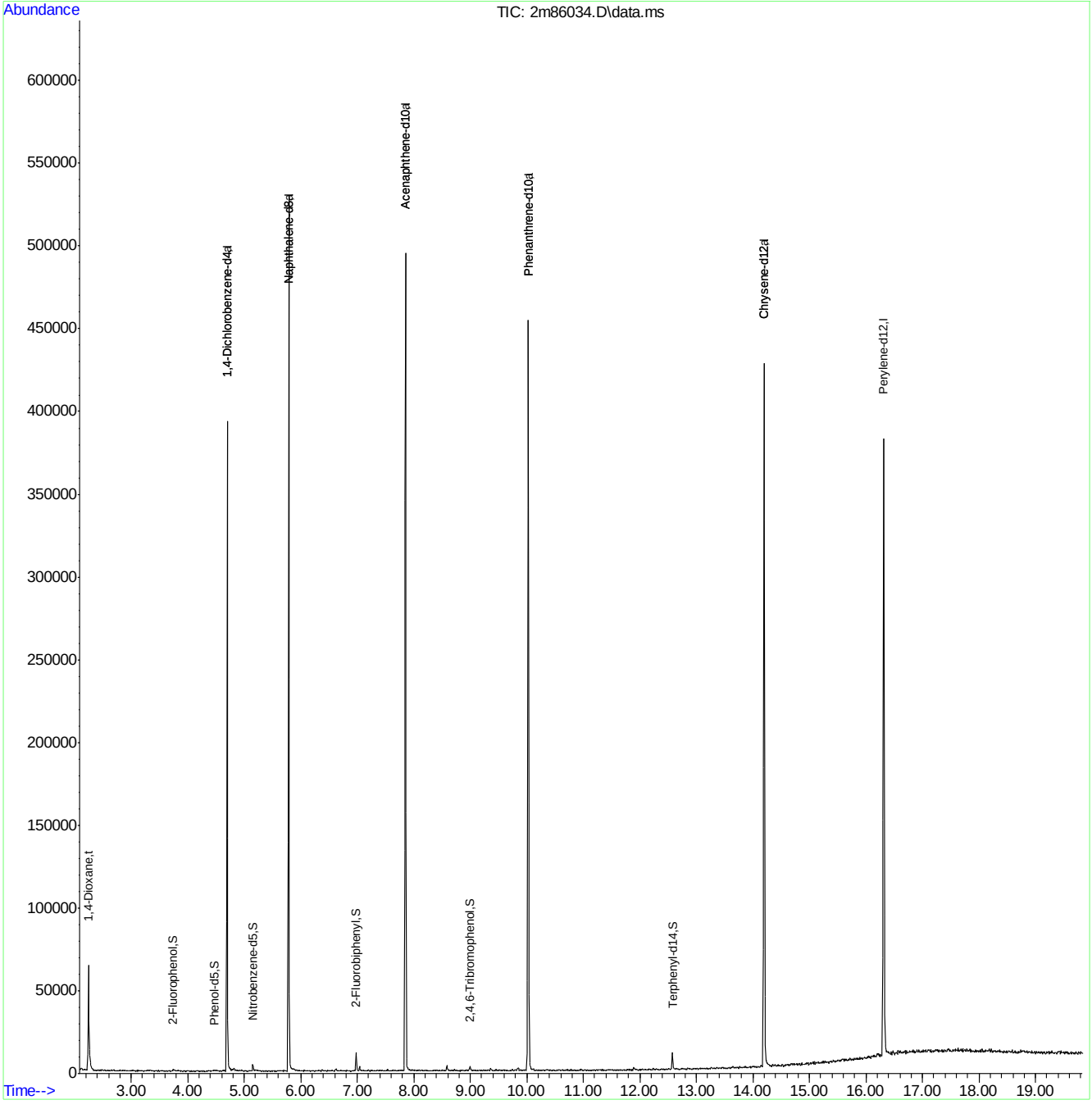
7.1.7

7

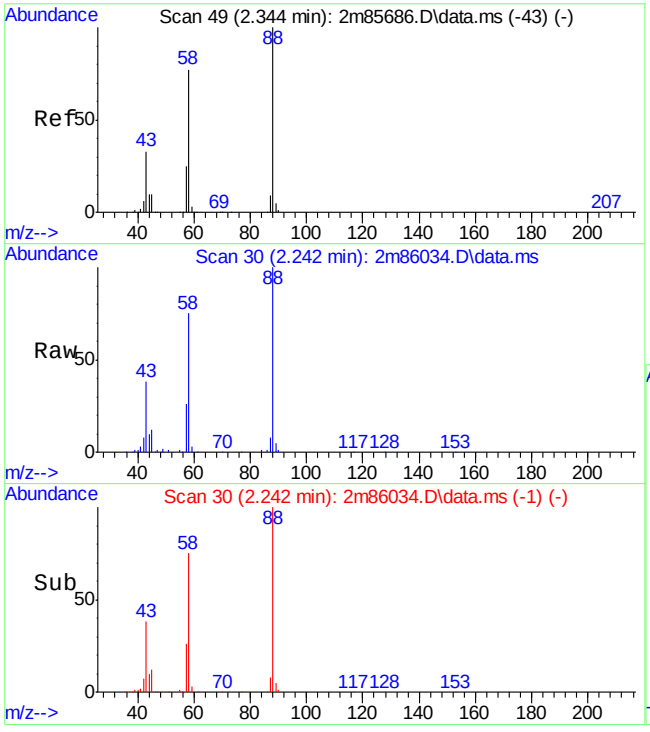
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E2M3808\
Data File : 2m86034.D
Acq On : 1 Aug 2016 5:22 pm
Operator : ashleyn
Sample : jc24978-4
Misc : op95939,e2m3808,930,,,1,40
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Aug 01 19:25:00 2016
Quant Method : C:\MSDCHEM\1\METHODS\M2M3789.M
Quant Title : Semi Volatile GC/MS,rxi 5sil ms 30m .25mm .25um
QLast Update : Thu Jul 28 23:07:38 2016
Response via : Initial Calibration



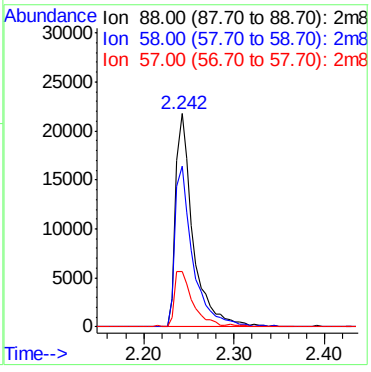
M2M3789.M Mon Aug 01 19:26:00 2016 Page: 2



#2
1,4-Dioxane
Concen: 29.97 ppm
RT: 2.242 min Scan# 30
Delta R.T. -0.070 min
Lab File: 2m86034.D
Acq: 1 Aug 2016 5:22 pm

Tgt Ion: 88 Resp: 29387

Ion	Ratio	Lower	Upper
88	100		
58	75.1	46.9	106.9
57	25.9	0.0	55.4



7.1.7

Manual Integration Approval Summary

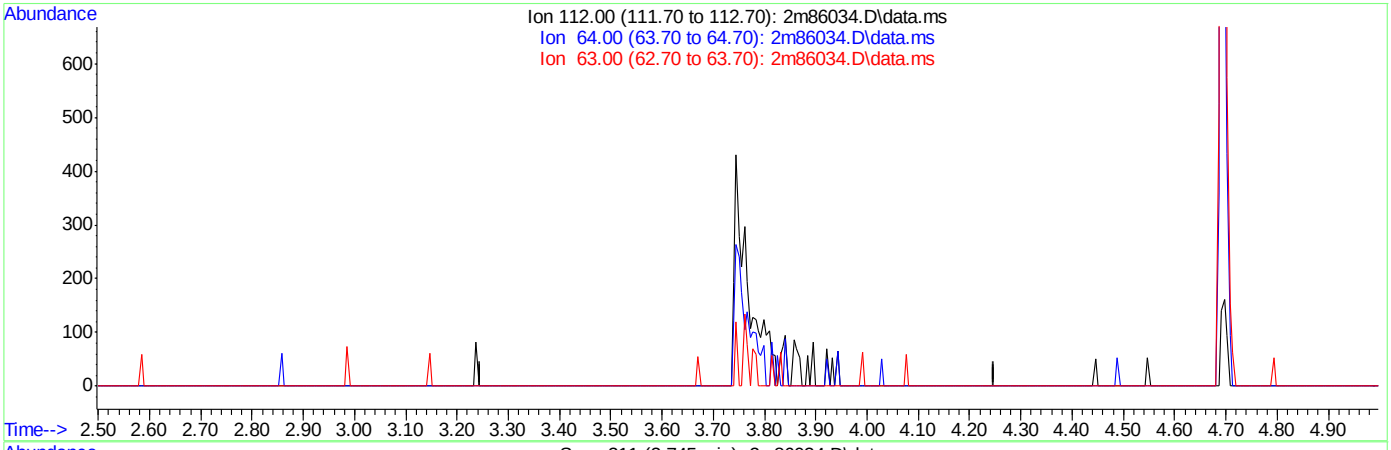
Sample Number:	JC24978-4	**Method:**	SW846 8270D BY SIM
Lab FileID:	2M86034.D	**Analyst approved:**	08/01/16 19:29 Sean Block
Injection Time:	08/01/16 17:22	**Supervisor approved:**	08/02/16 15:21 Nina Pandya

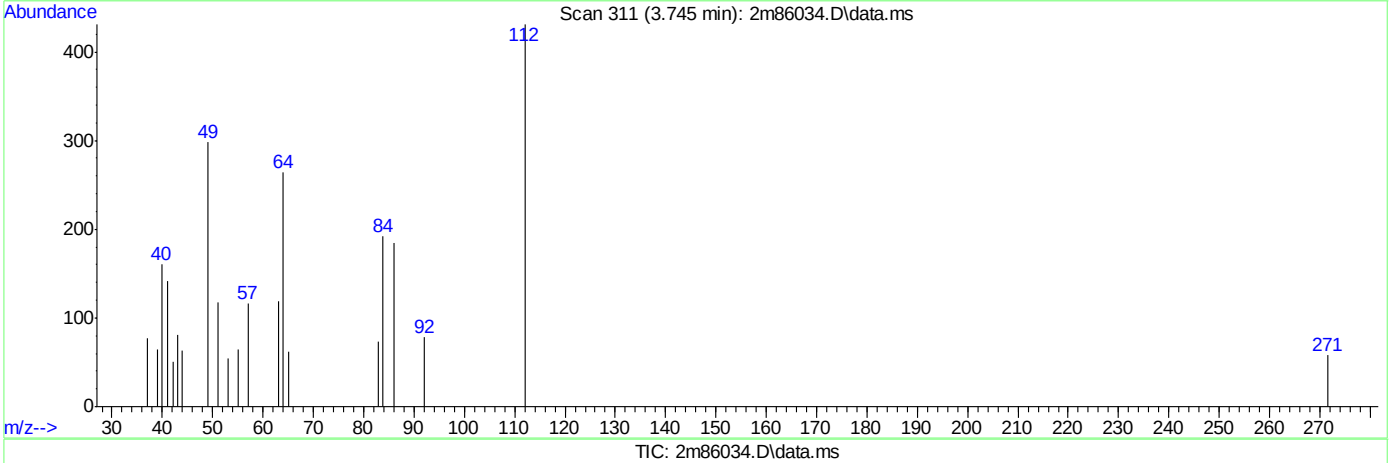
Parameter	CAS	Sig#	R.T. (min.)	Reason
2-Fluorophenol	367-12-4		3.74	Missed peak
Phenol-d5	4165-62-2		4.47	Missed peak
2,4,6-Tribromophenol	118-79-6		9.00	Missed peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E2M3808\
Data File : 2m86034.D
Acq On : 1 Aug 2016 5:22 pm
Operator : ashleyn
Sample : jc24978-4
Misc : op95939,e2m3808,930,,,1,40
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Aug 01 17:42:35 2016
Quant Method : C:\MSDCHEM\1\METHODS\M2M3789.M
Quant Title : Semi Volatile GC/MS,rxi 5sil ms 30m .25mm .25um
QLast Update : Thu Jul 28 23:07:38 2016
Response via : Initial Calibration





TIC: 2m86034.D\data.ms

(5) 2-Fluorophenol (S)

3.747min (-3.747) 0.00ppm

response 0

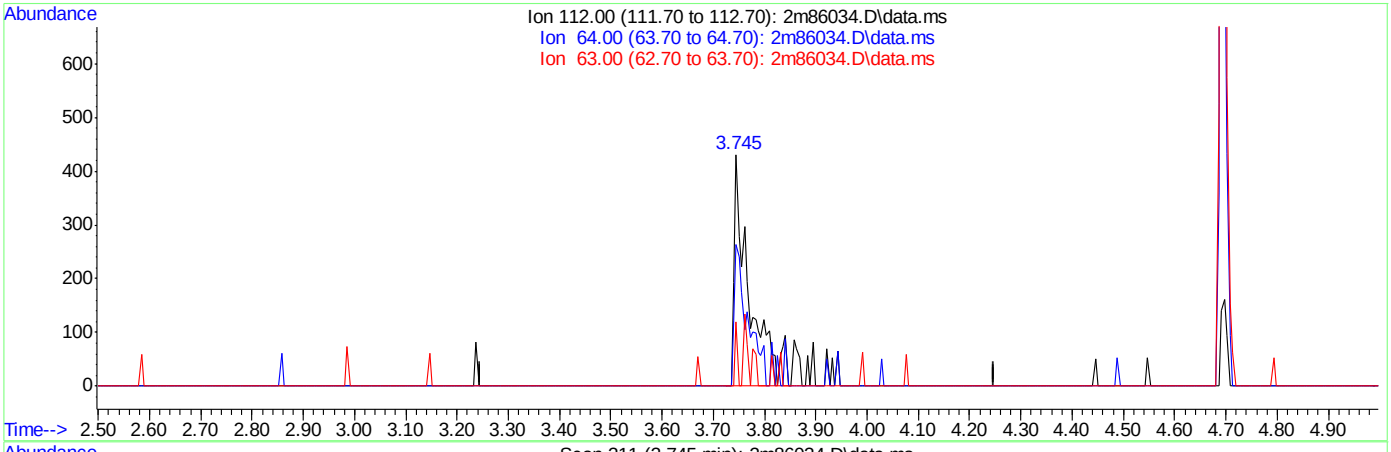
Ion	Exp%	Act%
112.00	100	0.00
64.00	58.40	0.00#
63.00	29.50	0.00
0.00	0.00	0.00

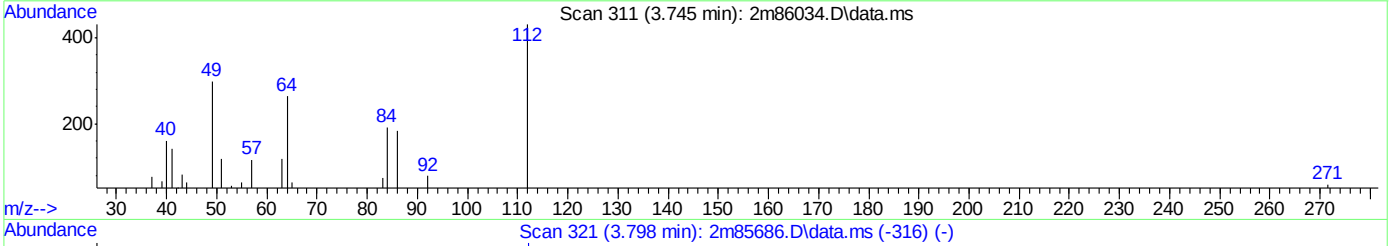
SGS ACCUTEST JC24978

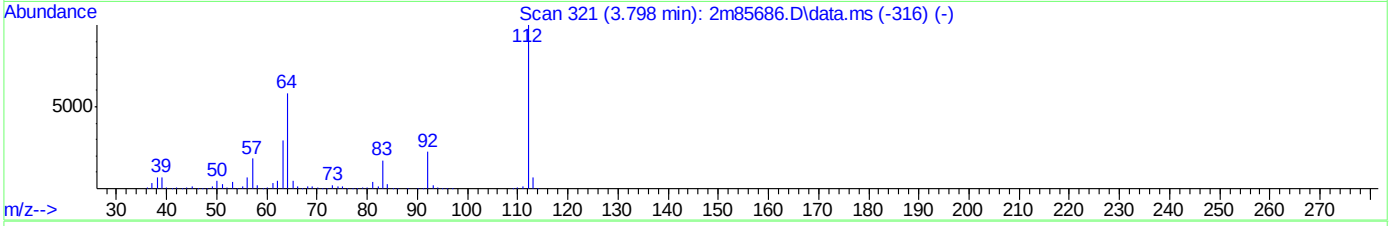
Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\DATA\E2M3808\
Data File : 2m86034.D
Acq On    :  1 Aug 2016   5:22 pm
Operator  : ashleyn
Sample    : jc24978-4
Misc      : op95939,e2m3808,930,,,1,40
ALS Vial  : 21   Sample Multiplier: 1

Quant Time: Aug 01 17:42:35 2016
Quant Method : C:\MSDCHEM\1\METHODS\M2M3789.M
Quant Title  : Semi Volatile GC/MS,rxi 5sil ms 30m .25mm .25um
QLast Update : Thu Jul 28 23:07:38 2016
Response via : Initial Calibration
```







TIC: 2m86034.D\data.ms

(5) 2-Fluorophenol (S)

3.745min (-0.002) 0.49ppm m

response 909

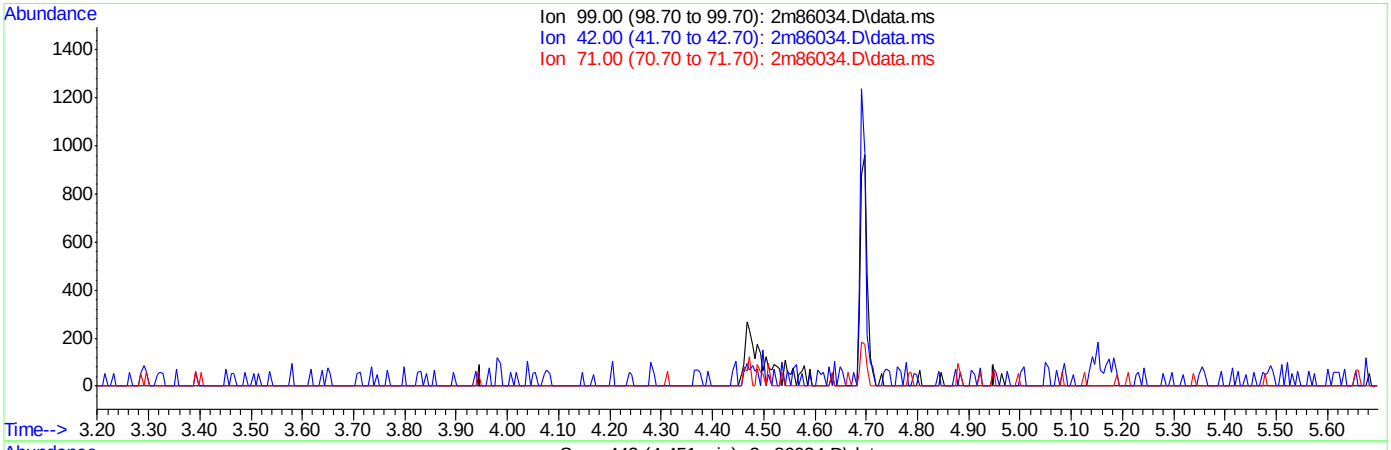
Ion	Exp%	Act%
112.00	100	100
64.00	58.40	61.25
63.00	29.50	27.61
0.00	0.00	0.00

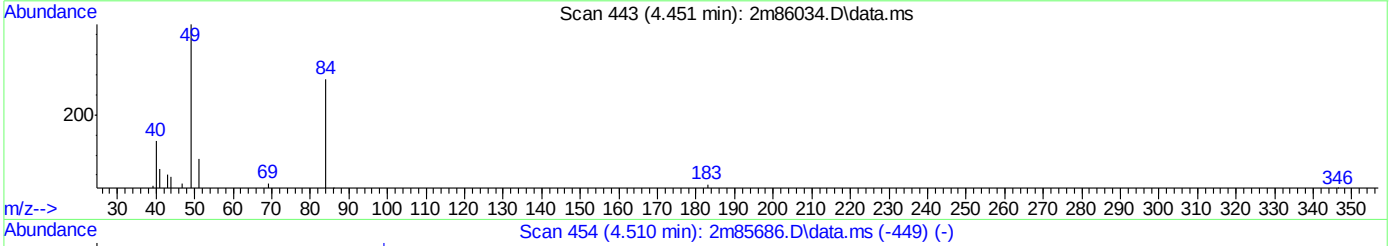
SGS ACCUTEST JC24978

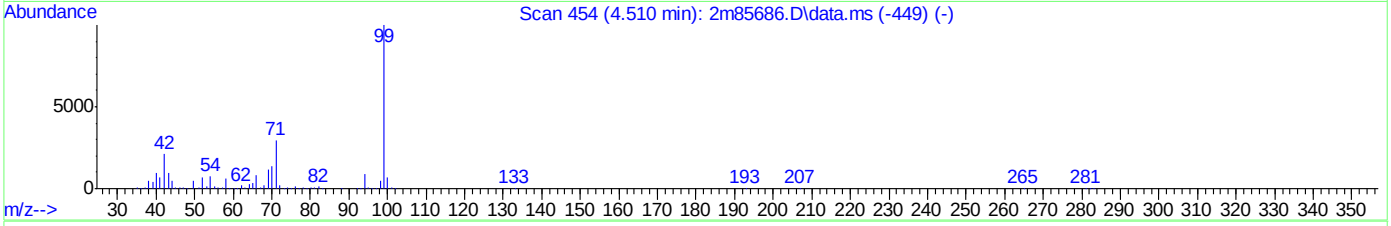
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E2M3808\
Data File : 2m86034.D
Acq On : 1 Aug 2016 5:22 pm
Operator : ashleyn
Sample : jc24978-4
Misc : op95939,e2m3808,930,,,1,40
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Aug 01 17:42:35 2016
Quant Method : C:\MSDCHEM\1\METHODS\M2M3789.M
Quant Title : Semi Volatile GC/MS,rxi 5sil ms 30m .25mm .25um
QLast Update : Thu Jul 28 23:07:38 2016
Response via : Initial Calibration







TIC: 2m86034.D\data.ms

(8) Phenol-d5 (S)

4.449min (-4.449) 0.00ppm

response 0

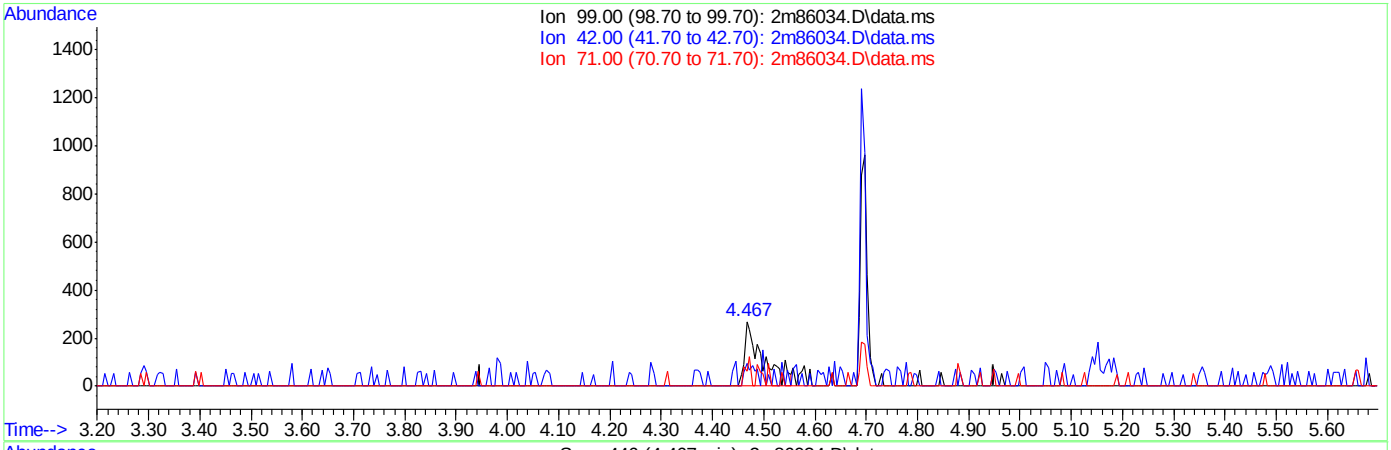
Ion	Exp%	Act%
99.00	100	0.00
42.00	20.30	0.00
71.00	29.80	0.00
0.00	0.00	0.00

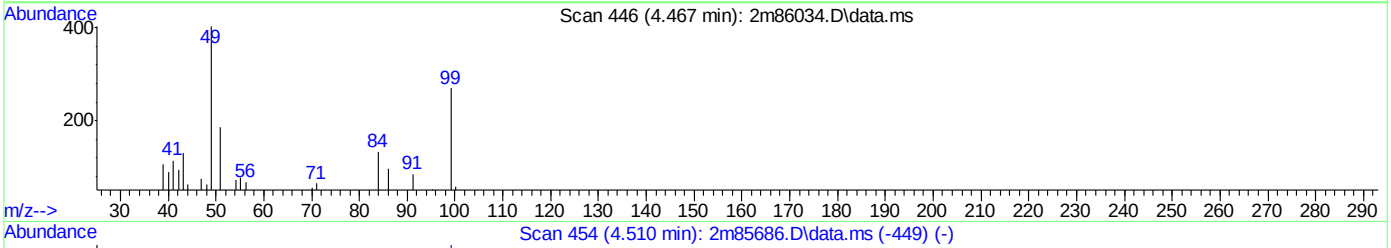
SGS ACCUTEST JC24978

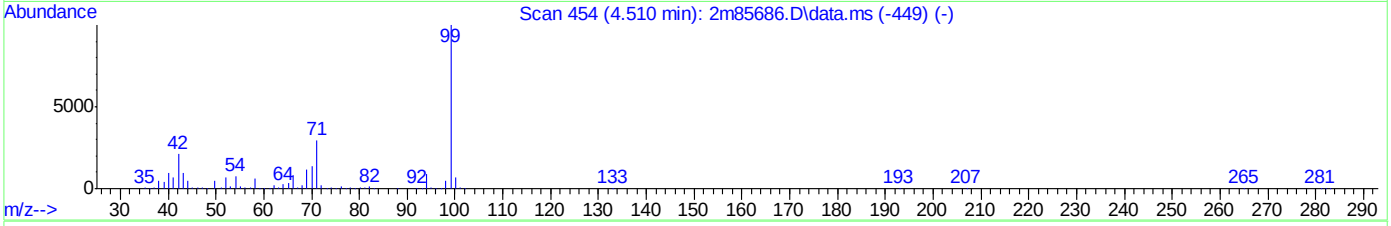
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E2M3808\
Data File : 2m86034.D
Acq On : 1 Aug 2016 5:22 pm
Operator : ashleyn
Sample : jc24978-4
Misc : op95939,e2m3808,930,,,1,40
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Aug 01 17:42:35 2016
Quant Method : C:\MSDCHEM\1\METHODS\M2M3789.M
Quant Title : Semi Volatile GC/MS,rxi 5sil ms 30m .25mm .25um
QLast Update : Thu Jul 28 23:07:38 2016
Response via : Initial Calibration







TIC: 2m86034.D\data.ms

(8) Phenol-d5 (S)

4.467min (+0.018) 0.28ppm m

response 654

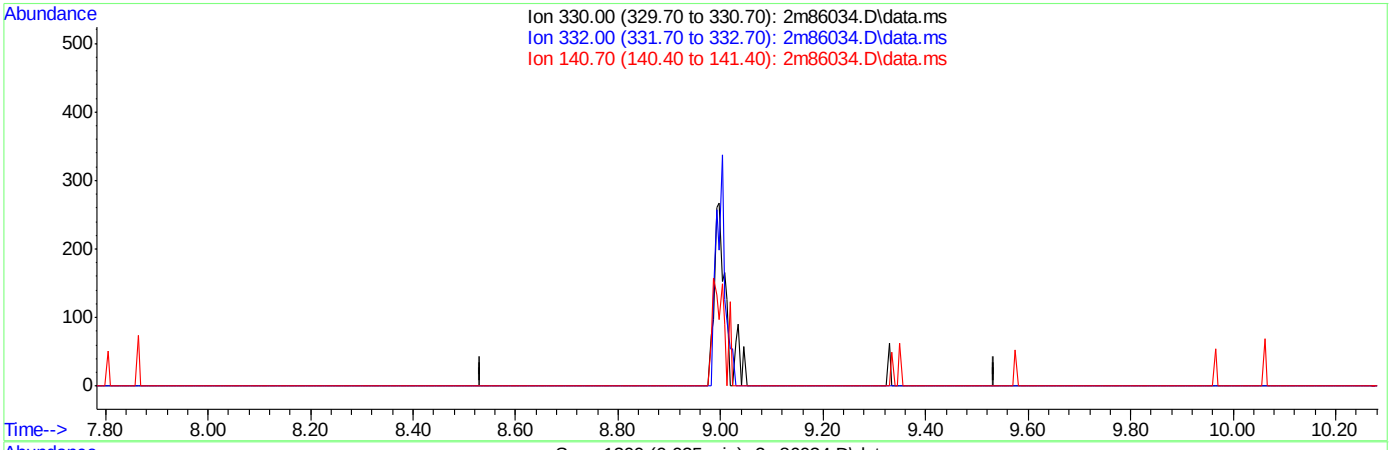
Ion	Exp%	Act%
99.00	100	100
42.00	20.30	35.19
71.00	29.80	24.07
0.00	0.00	0.00

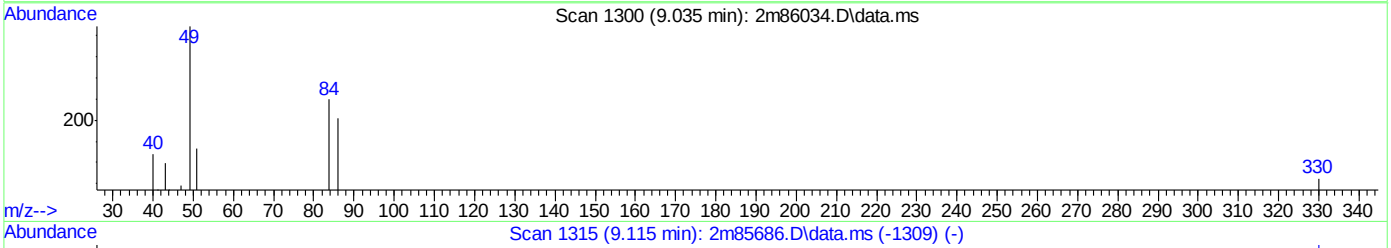
SGS ACCUTEST JC24978

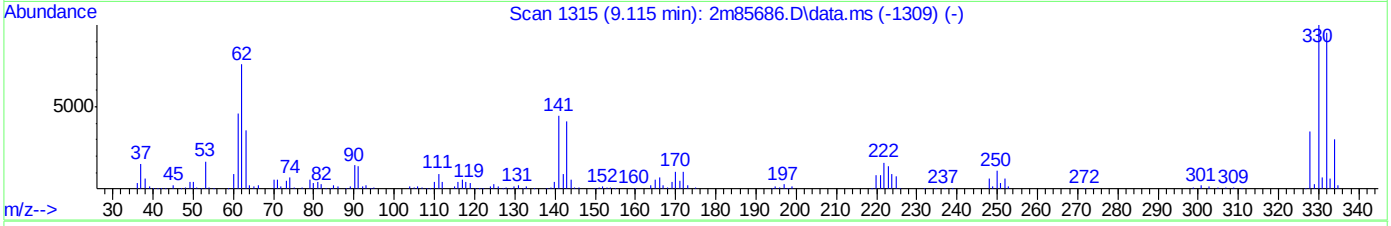
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E2M3808\
Data File : 2m86034.D
Acq On : 1 Aug 2016 5:22 pm
Operator : ashleyn
Sample : jc24978-4
Misc : op95939,e2m3808,930,,,1,40
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Aug 01 17:42:35 2016
Quant Method : C:\MSDCHEM\1\METHODS\M2M3789.M
Quant Title : Semi Volatile GC/MS,rxi 5sil ms 30m .25mm .25um
QLast Update : Thu Jul 28 23:07:38 2016
Response via : Initial Calibration







TIC: 2m86034.D\data.ms

(73) 2,4,6-Tribromophenol (S)

9.033min (-9.033) 0.00ppm

response 0

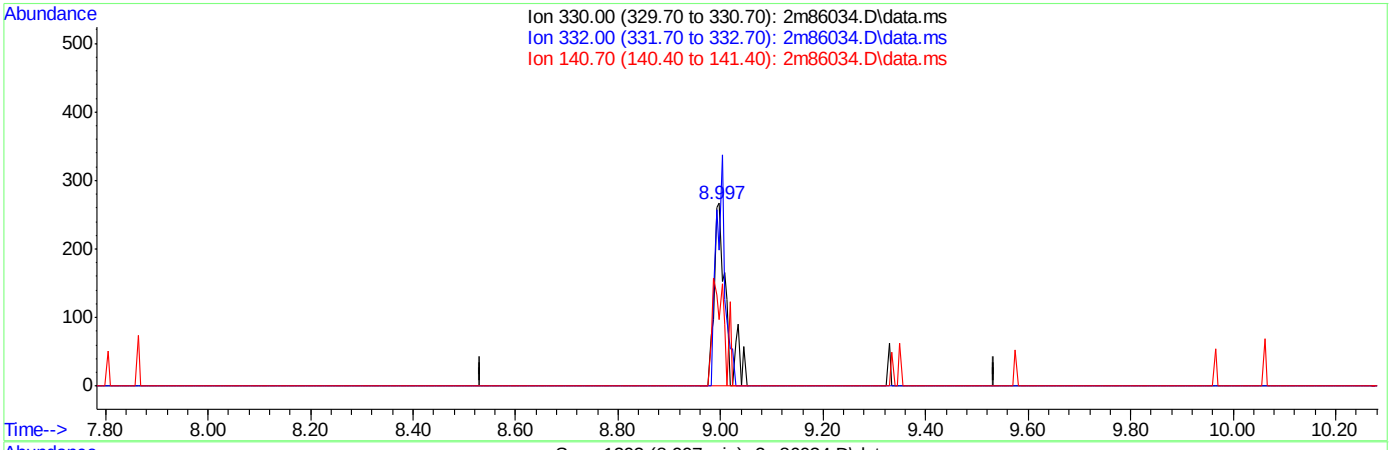
Ion	Exp%	Act%
330.00	100	0.00
332.00	94.80	0.00#
140.70	44.20	0.00#
0.00	0.00	0.00

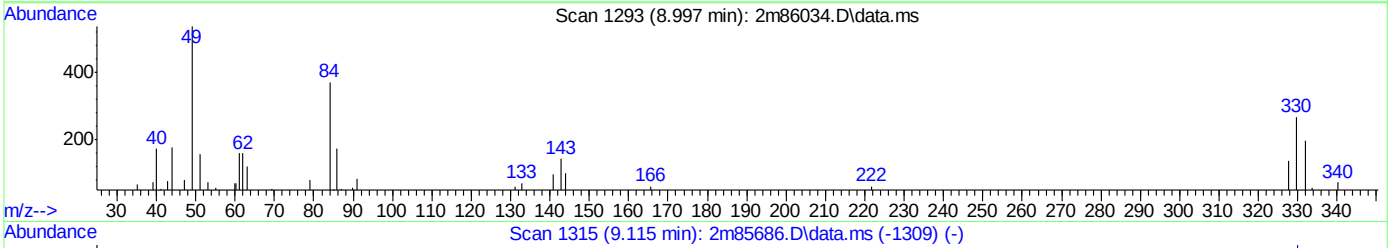
SGS ACCUTEST JC24978

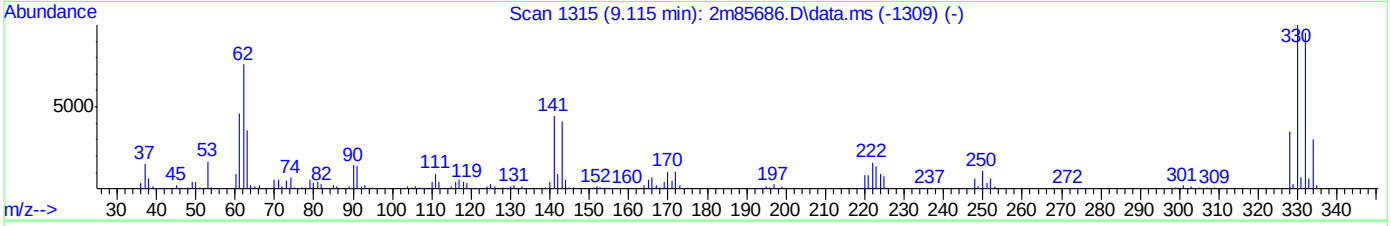
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E2M3808\
Data File : 2m86034.D
Acq On : 1 Aug 2016 5:22 pm
Operator : ashleyn
Sample : jc24978-4
Misc : op95939,e2m3808,930,,,1,40
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Aug 01 17:42:35 2016
Quant Method : C:\MSDCHEM\1\METHODS\M2M3789.M
Quant Title : Semi Volatile GC/MS,rxi 5sil ms 30m .25mm .25um
QLast Update : Thu Jul 28 23:07:38 2016
Response via : Initial Calibration







TIC: 2m86034.D\data.ms

(73) 2,4,6-Tribromophenol (S)

8.997min (-0.036) 1.08ppm m

response 435

Ion	Exp%	Act%
330.00	100	100
332.00	94.80	74.16
140.70	44.20	36.33
0.00	0.00	0.00

SGS ACCUTEST JC24978

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M3004\
Data File : 3m63398.D
Acq On : 2 Aug 2016 2:43 pm
Operator : SHANICEG
Sample : jc24978-4
Misc : op95939a,e3m3004,930
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 02 15:09:58 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2975SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Tue Aug 02 08:23:04 2016
Response via : Initial Calibration

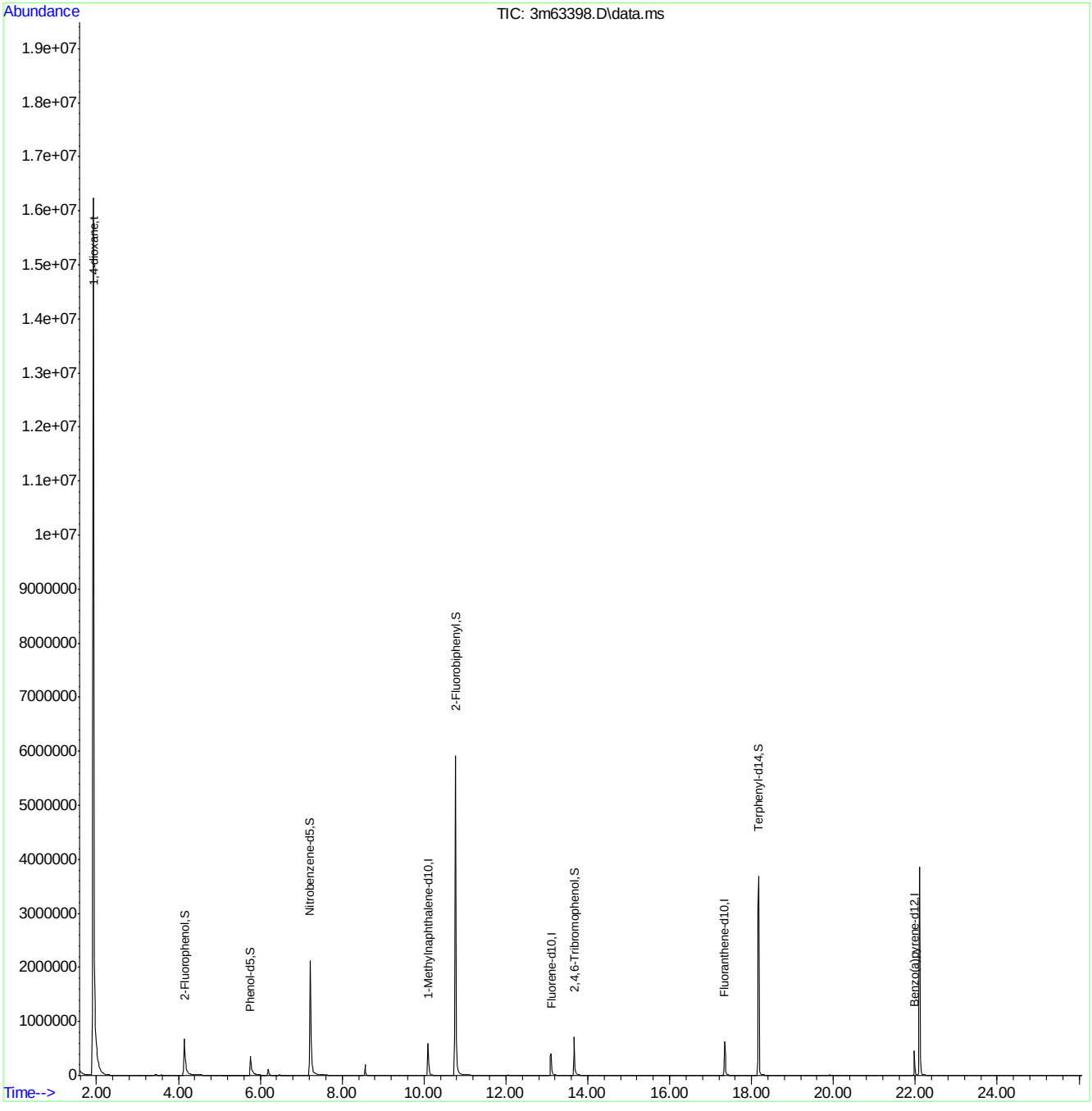
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	10.097	150	441106	4.00	ppm	-0.12
14) Fluorene-d10	13.107	176	574569	4.00	ppm	-0.04
21) Fluoranthene-d10	17.341	212	878919	4.00	ppm	-0.08
31) Benzo(a)pyrene-d12	21.978	264	536776	4.00	ppm	-0.09
System Monitoring Compounds						
3) 2-Fluorophenol	4.152	112	978625	15.94	ppm	-0.12
Spiked Amount 50.000			Recovery = 31.88%			
4) Phenol-d5	5.758	99	1059253	11.67	ppm	-0.11
Spiked Amount 50.000			Recovery = 23.34%			
7) Nitrobenzene-d5	7.222	82	2951001	34.61	ppm	-0.15
Spiked Amount 50.000			Recovery = 69.22%			
15) 2-Fluorobiphenyl	10.774	172	5296840	33.97	ppm	-0.10
Spiked Amount 50.000			Recovery = 67.94%			
20) 2,4,6-Tribromophenol	13.672	330	604206	25.13	ppm	-0.03
Spiked Amount 50.000			Recovery = 50.26%			
28) Terphenyl-d14	18.176	244	4357280	32.49	ppm	-0.07
Spiked Amount 50.000			Recovery = 64.98%			
Target Compounds						Qvalue
2) 1,4-dioxane	1.927	88	10378884	427.83	ppm #	1

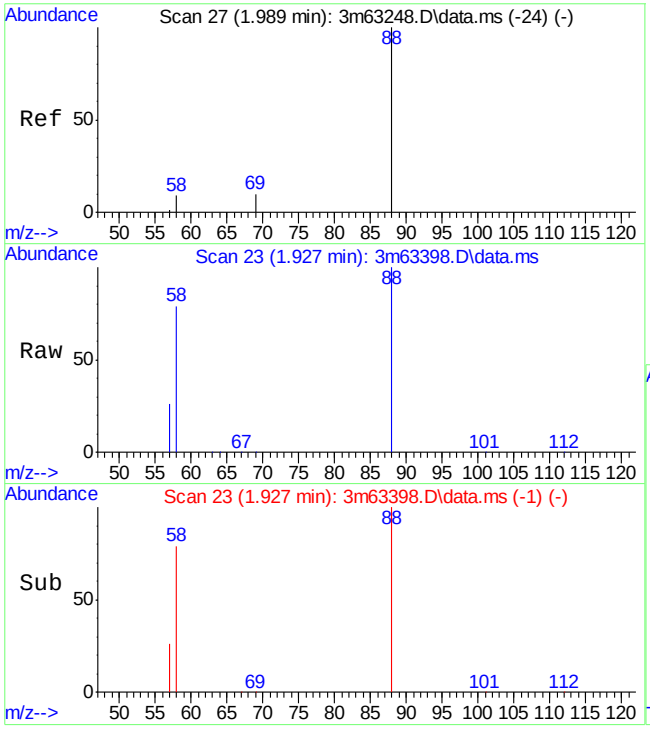
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M3004\
Data File : 3m63398.D
Acq On : 2 Aug 2016 2:43 pm
Operator : SHANICEG
Sample : jc24978-4
Misc : op95939a,e3m3004,930
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 02 15:09:58 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2975SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Tue Aug 02 08:23:04 2016
Response via : Initial Calibration

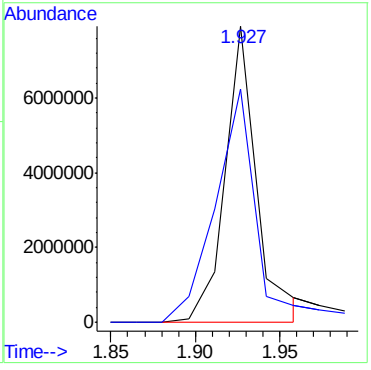




#2
1,4-dioxane
Concen: 427.83 ppm
RT: 1.927 min Scan# 23
Delta R.T. -0.031 min
Lab File: 3m63398.D
Acq: 2 Aug 2016 2:43 pm

Tgt Ion: 88 Resp:10378884

Ion	Ratio	Lower	Upper
88	100		
58	79.4	264.3	304.3#



Manual Integrations APPROVED (compounds with "m" flag)
Nina Pandya
08/02/16 16:04

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E2M3808\
Data File : 2m86035.D
Acq On : 1 Aug 2016 5:48 pm
Operator : ashleyn
Sample : jc24978-5
Misc : op95939a,e2m3808,980,,,1,20
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Aug 01 19:26:44 2016
Quant Method : C:\MSDCHEM\1\METHODS\M2M3789.M
Quant Title : Semi Volatile GC/MS,rxi 5sil ms 30m .25mm .25um
QLast Update : Thu Jul 28 23:07:38 2016
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.697	152	53489	40.00 ppm	-0.02
24) Naphthalene-d8	5.788	136	223481	40.00 ppm	-0.03
47) Acenaphthene-d10	7.853	164	128999	40.00 ppm	-0.04
69) Phenanthrene-d10	10.024	188	205704	40.00 ppm	-0.04
83) Chrysene-d12	14.202	240	171687	40.00 ppm	-0.05
91) Perylene-d12	16.314	264	173910	40.00 ppm	-0.04
101) 1,4-Dichlorobenzene-d4a	4.697	152	53489	40.00 ppm	-0.02
103) Acenaphthene-d10a	7.853	164	128999	40.00 ppm	-0.04
105) Chrysene-d12a	14.202	240	171687	40.00 ppm	-0.05
107) Phenanthrene-d10a	10.024	188	205704	40.00 ppm	-0.04
109) Naphthalene-d8a	5.788	136	223481	40.00 ppm	-0.03

System Monitoring Compounds					
5) 2-Fluorophenol	3.745	112	1095	0.59 ppm	0.00
Spiked Amount 50.000			Recovery = 1.18%		
8) Phenol-d5	4.467	99	1037	0.44 ppm	0.02
Spiked Amount 50.000			Recovery = 0.88%		
25) Nitrobenzene-d5	5.146	82	3985	1.95 ppm	-0.02
Spiked Amount 50.000			Recovery = 3.90%		
51) 2-Fluorobiphenyl	6.981	172	8354	2.13 ppm	-0.04
Spiked Amount 50.000			Recovery = 4.26%		
73) 2,4,6-Tribromophenol	8.997	330	801m	1.90 ppm	-0.04
Spiked Amount 50.000			Recovery = 3.80%		
85) Terphenyl-d14	12.576	244	7953	2.27 ppm	-0.05
Spiked Amount 50.000			Recovery = 4.54%		

Target Compounds					Qvalue
2) 1,4-Dioxane	2.242	88	51035	52.04 ppm	99

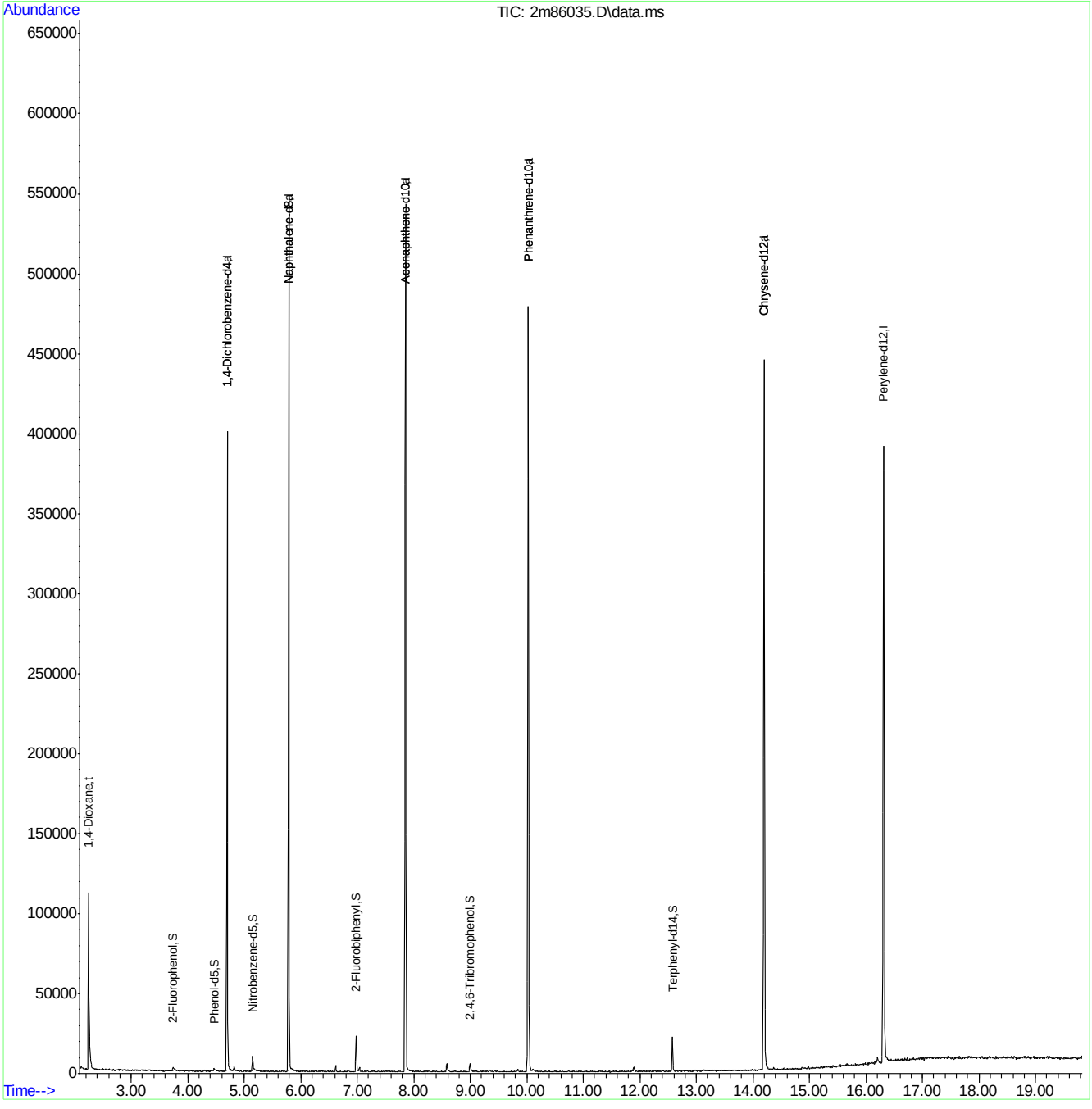
(#) = qualifier out of range (m) = manual integration (+) = signals summed

7.1.9
7

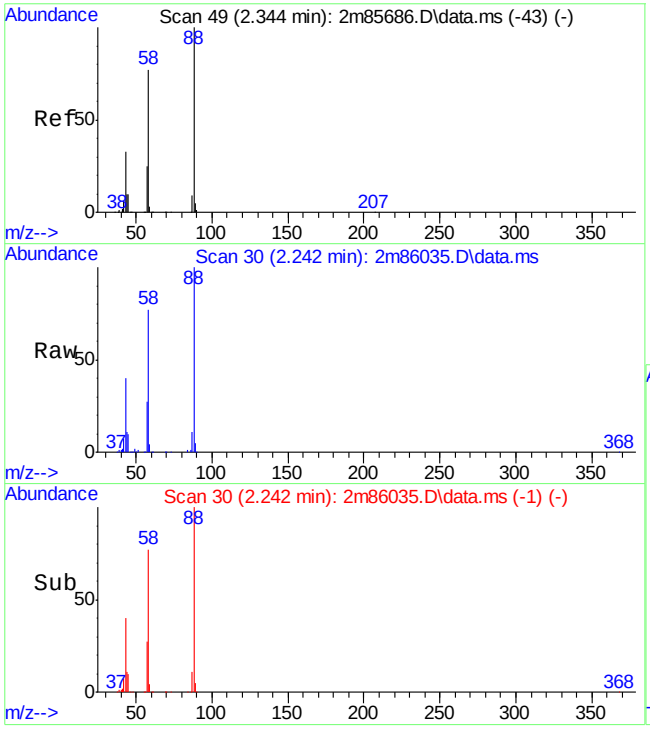
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E2M3808\
Data File : 2m86035.D
Acq On : 1 Aug 2016 5:48 pm
Operator : ashleyn
Sample : jc24978-5
Misc : op95939a,e2m3808,980,,,1,20
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Aug 01 19:26:44 2016
Quant Method : C:\MSDCHEM\1\METHODS\M2M3789.M
Quant Title : Semi Volatile GC/MS,rxi 5sil ms 30m .25mm .25um
QLast Update : Thu Jul 28 23:07:38 2016
Response via : Initial Calibration



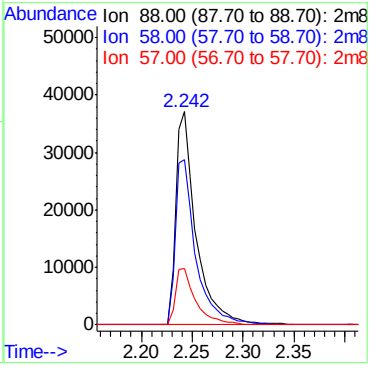
M2M3789.M Tue Aug 02 12:31:48 2016 Page: 2



#2
1,4-Dioxane
Concen: 52.04 ppm
RT: 2.242 min Scan# 30
Delta R.T. -0.070 min
Lab File: 2m86035.D
Acq: 1 Aug 2016 5:48 pm

Tgt Ion: 88 Resp: 51035

Ion	Ratio	Lower	Upper
88	100		
58	77.2	46.9	106.9
57	26.5	0.0	55.4



7.1.9

Manual Integration Approval Summary

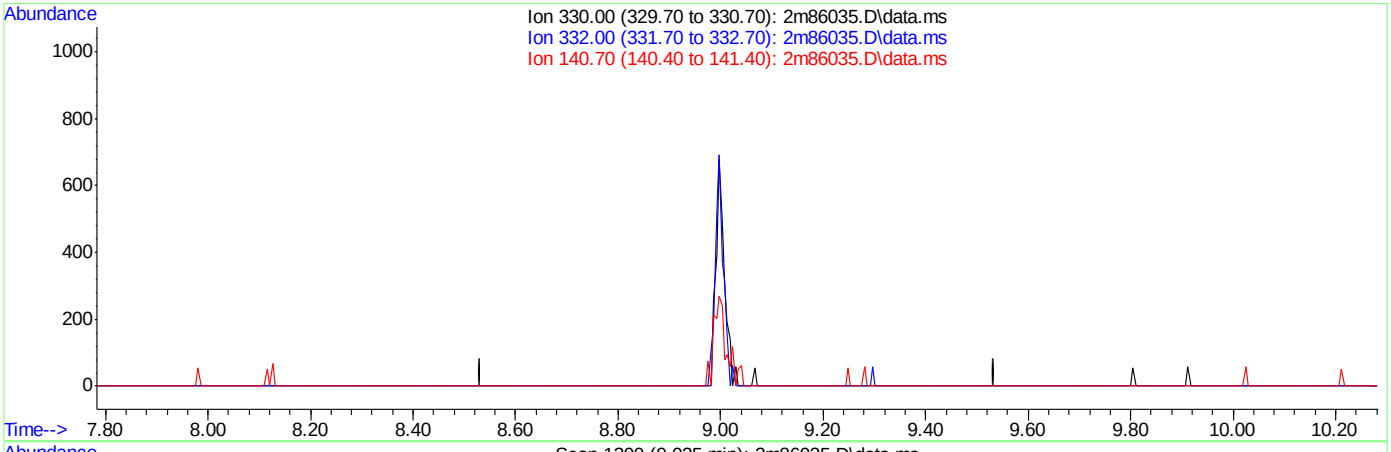
Sample Number:	JC24978-5	**Method:**	SW846 8270D BY SIM
Lab FileID:	2M86035.D	**Analyst approved:**	08/01/16 19:29 Sean Block
Injection Time:	08/01/16 17:48	**Supervisor approved:**	08/02/16 16:04 Nina Pandya

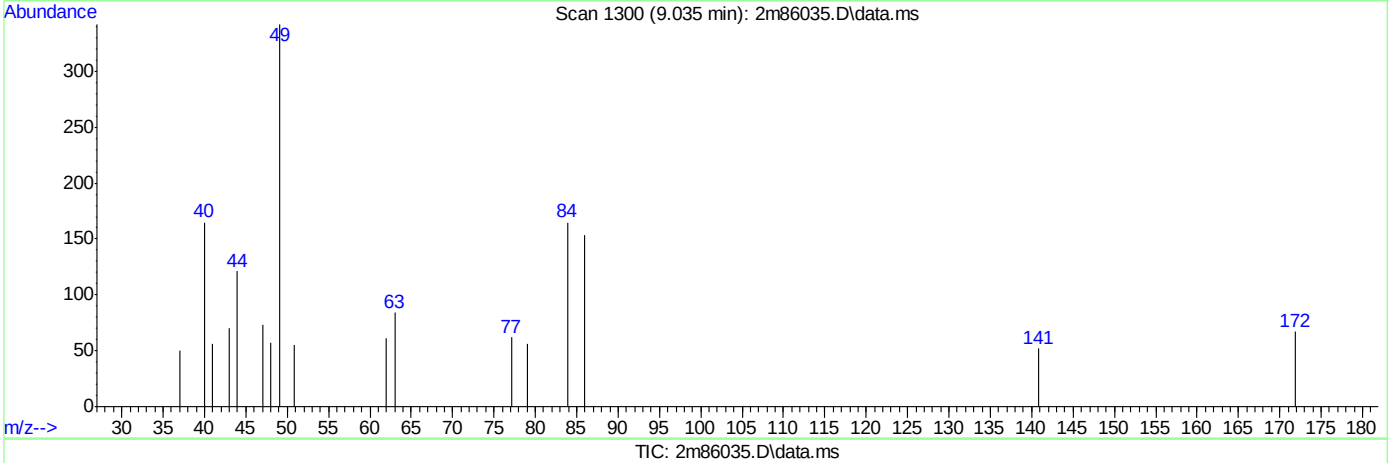
Parameter	CAS	Sig#	R.T. (min.)	Reason
2,4,6-Tribromophenol	118-79-6		9.00	Missed peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E2M3808\
Data File : 2m86035.D
Acq On : 1 Aug 2016 5:48 pm
Operator : ashleyn
Sample : jc24978-5
Misc : op95939,e2m3808,980,,,1,20
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Aug 01 18:08:27 2016
Quant Method : C:\MSDCHEM\1\METHODS\M2M3789.M
Quant Title : Semi Volatile GC/MS,rxi 5sil ms 30m .25mm .25um
QLast Update : Thu Jul 28 23:07:38 2016
Response via : Initial Calibration





TIC: 2m86035.D\data.ms

(73) 2,4,6-Tribromophenol (S)

9.033min (-9.033) 0.00ppm

response 0

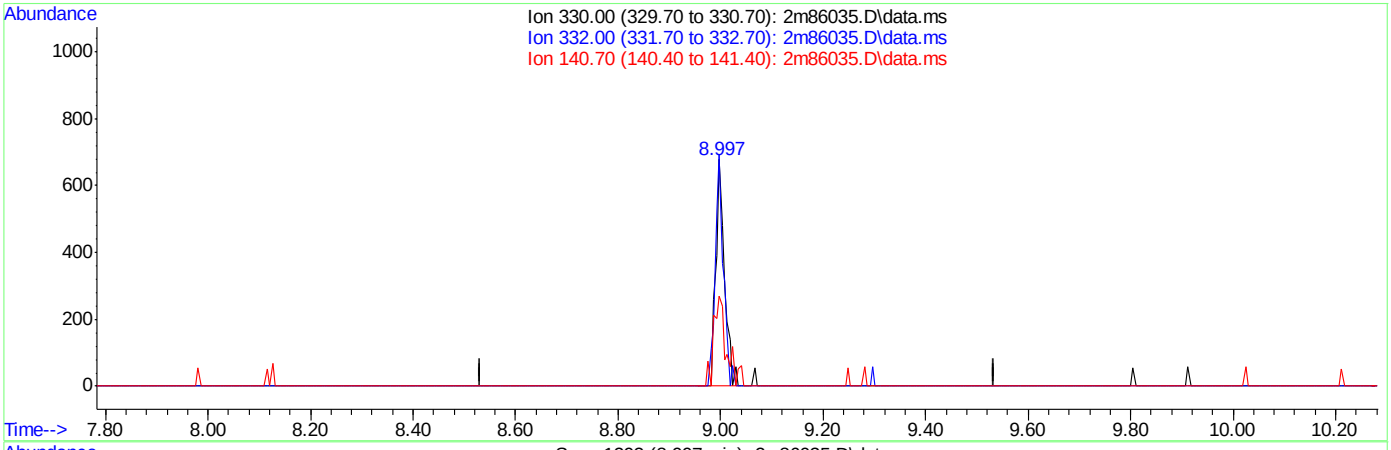
Ion	Exp%	Act%
330.00	100	0.00
332.00	94.80	0.00#
140.70	44.20	0.00#
0.00	0.00	0.00

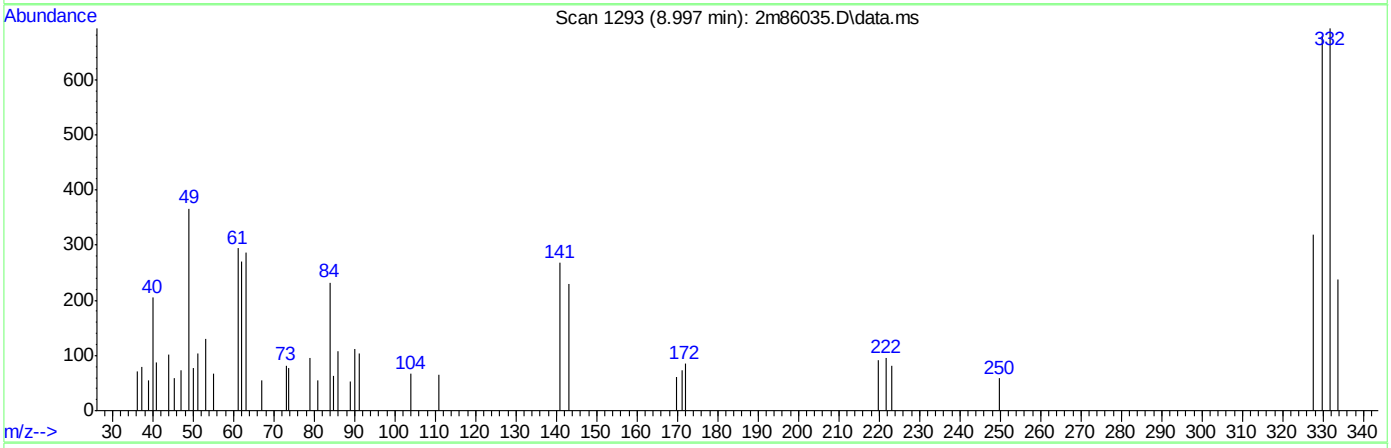
SGS ACCUTEST JC24978

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E2M3808\
Data File : 2m86035.D
Acq On : 1 Aug 2016 5:48 pm
Operator : ashleyn
Sample : jc24978-5
Misc : op95939,e2m3808,980,,,1,20
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Aug 01 18:08:27 2016
Quant Method : C:\MSDCHEM\1\METHODS\M2M3789.M
Quant Title : Semi Volatile GC/MS,rxi 5sil ms 30m .25mm .25um
QLast Update : Thu Jul 28 23:07:38 2016
Response via : Initial Calibration





(73) 2,4,6-Tribromophenol (S)

8.997min (-0.036) 1.90ppm m

response 801

Ion	Exp%	Act%
330.00	100	100
332.00	94.80	102.21
140.70	44.20	39.53
0.00	0.00	0.00

SGS ACCUTEST JC24978

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M3004\
Data File : 3m63399.D
Acq On : 2 Aug 2016 3:16 pm
Operator : SHANICEG
Sample : jc24978-5
Misc : op95939a,e3m3004,980
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 02 15:57:10 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2975SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Tue Aug 02 08:23:04 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	10.097	150	476858	4.00	ppm	-0.12
14) Fluorene-d10	13.107	176	624319	4.00	ppm	-0.04
21) Fluoranthene-d10	17.341	212	908886	4.00	ppm	-0.08
31) Benzo(a)pyrene-d12	21.978	264	612734	4.00	ppm	-0.09
System Monitoring Compounds						
3) 2-Fluorophenol	4.152	112	843457	12.71	ppm	-0.12
Spiked Amount 50.000			Recovery = 25.42%			
4) Phenol-d5	5.758	99	890989	9.08	ppm	-0.11
Spiked Amount 50.000			Recovery = 18.16%			
7) Nitrobenzene-d5	7.222	82	2586095	28.06	ppm	-0.15
Spiked Amount 50.000			Recovery = 56.12%			
15) 2-Fluorobiphenyl	10.774	172	4634742	27.35	ppm	-0.10
Spiked Amount 50.000			Recovery = 54.70%			
20) 2,4,6-Tribromophenol	13.672	330	566291	21.68	ppm	-0.03
Spiked Amount 50.000			Recovery = 43.36%			
28) Terphenyl-d14	18.176	244	4441618	32.02	ppm	-0.07
Spiked Amount 50.000			Recovery = 64.04%			
Target Compounds						Qvalue
2) 1,4-dioxane	1.927	88	9974578	380.34	ppm	# 1

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

7.1.10

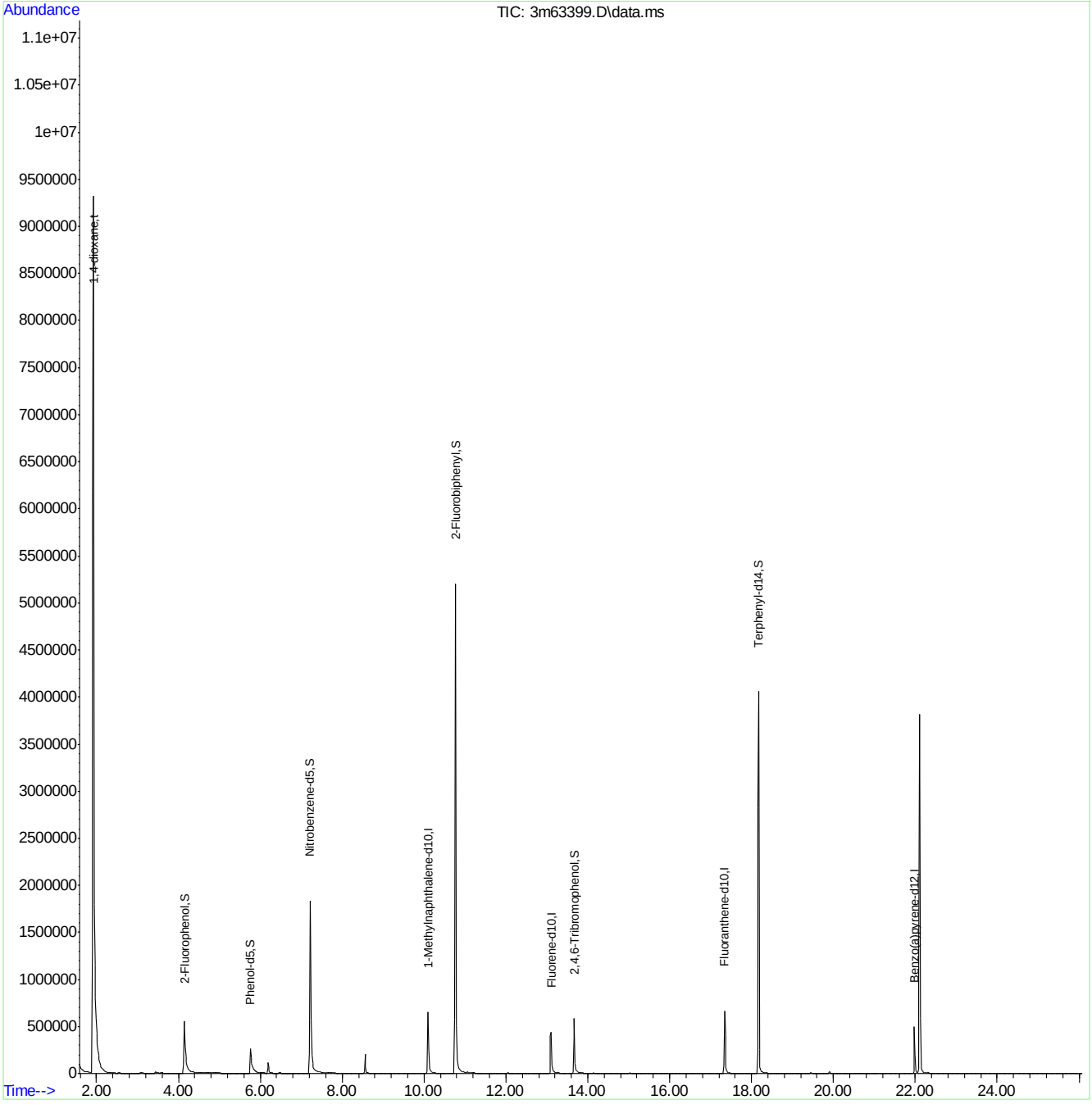
7

SGS ACCUTEST JC24978

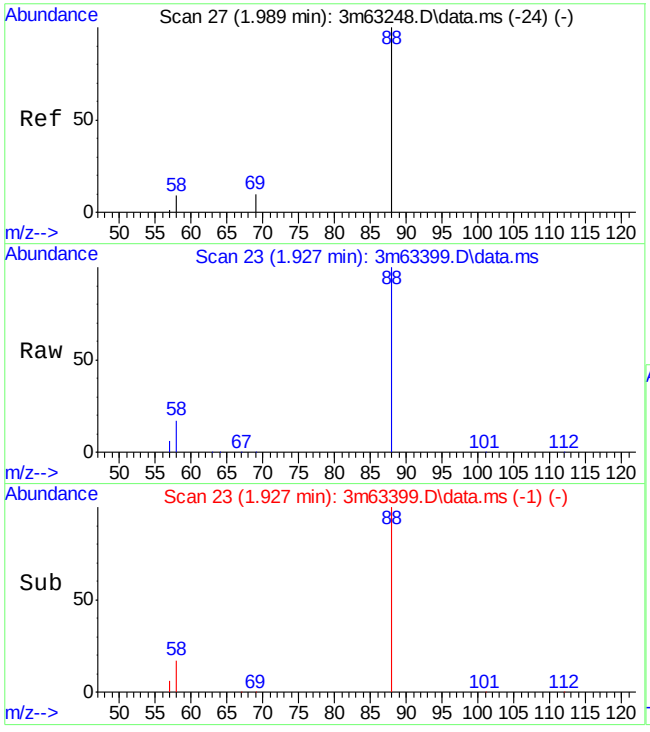
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M3004\
Data File : 3m63399.D
Acq On : 2 Aug 2016 3:16 pm
Operator : SHANICEG
Sample : jc24978-5
Misc : op95939a,e3m3004,980
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 02 15:57:10 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2975SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Tue Aug 02 08:23:04 2016
Response via : Initial Calibration



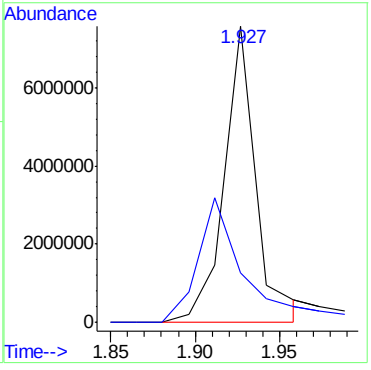
M3M2975SIM.M Tue Aug 02 15:59:32 2016 RPT1 Page: 2



#2
1,4-dioxane
Concen: 380.34 ppm
RT: 1.927 min Scan# 23
Delta R.T. -0.031 min
Lab File: 3m63399.D
Acq: 2 Aug 2016 3:16 pm

Tgt Ion: 88 Resp: 9974578

Ion	Ratio	Lower	Upper
88	100		
58	14.4	264.3	304.3#



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\E3P2534\
Data File : 3p55423.D
Acq On : 2 Aug 2016 2:08 pm
Operator : ashleyd
Sample : jc24978-6
Misc : op95939a,e3p2534,950,,,1,1
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Aug 02 14:37:38 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3P2503SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Tue Aug 02 12:12:06 2016
Response via : Initial Calibration

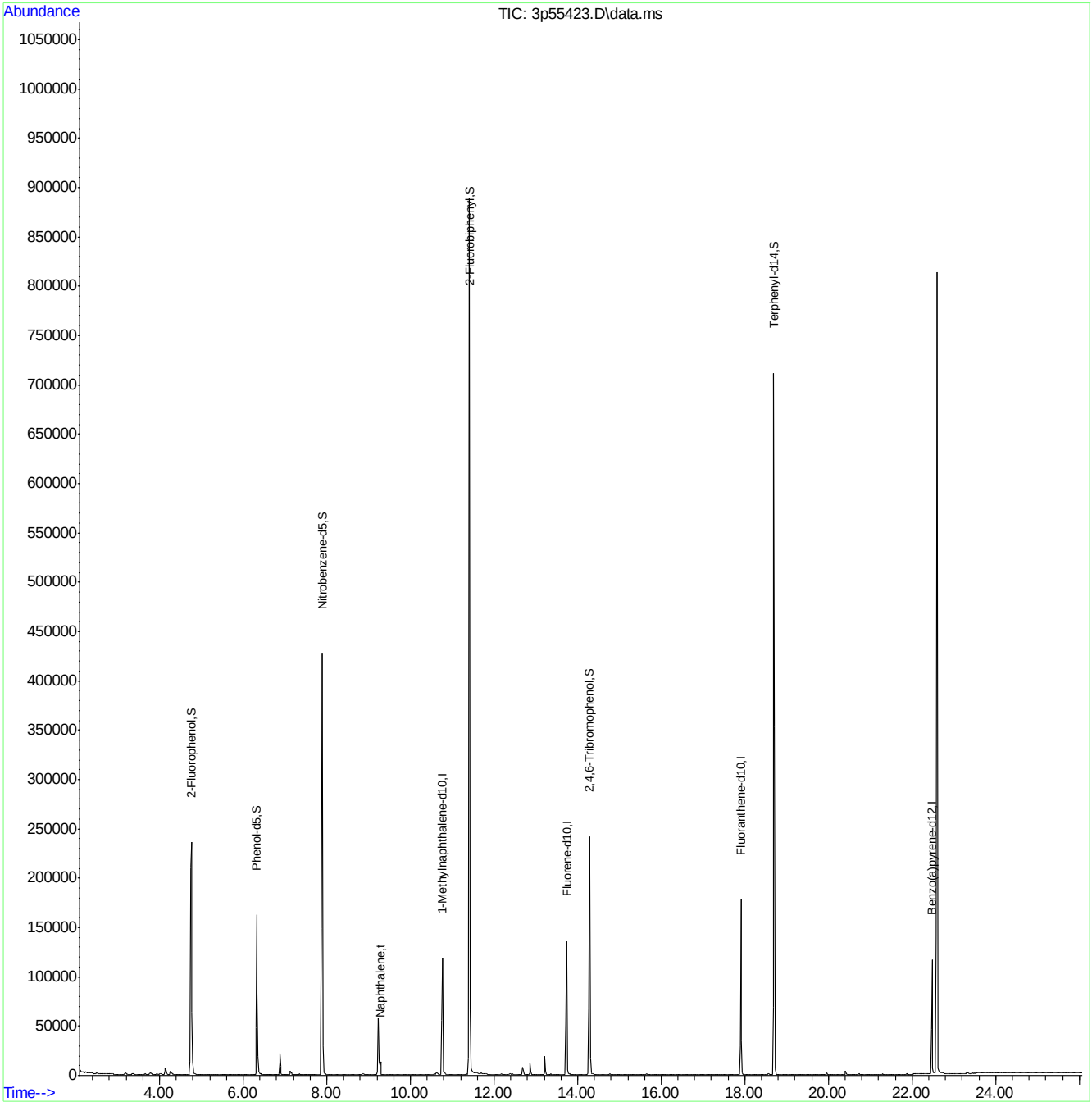
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	10.768	150	76093	4.00	ppm	0.00
14) Fluorene-d10	13.739	176	117177	4.00	ppm	0.00
21) Fluoranthene-d10	17.905	212	176774	4.00	ppm	0.00
31) Benzo(a)pyrene-d12	22.478	264	136276	4.00	ppm	0.00
System Monitoring Compounds						
3) 2-Fluorophenol	4.760	112	237489	19.33	ppm	-0.13
Spiked Amount 50.000			Recovery = 38.66%			
4) Phenol-d5	6.328	99	227900	13.86	ppm	-0.08
Spiked Amount 50.000			Recovery = 27.72%			
7) Nitrobenzene-d5	7.895	82	431197	34.85	ppm	-0.06
Spiked Amount 50.000			Recovery = 69.70%			
15) 2-Fluorobiphenyl	11.412	172	854714	29.64	ppm	-0.05
Spiked Amount 50.000			Recovery = 59.28%			
20) 2,4,6-Tribromophenol	14.286	330	143503	39.12	ppm	0.01
Spiked Amount 50.000			Recovery = 78.24%			
28) Terphenyl-d14	18.693	244	681371	29.27	ppm	0.03
Spiked Amount 50.000			Recovery = 58.54%			
Target Compounds						Qvalue
9) Naphthalene	9.288	128	19805	0.40	ppm	92

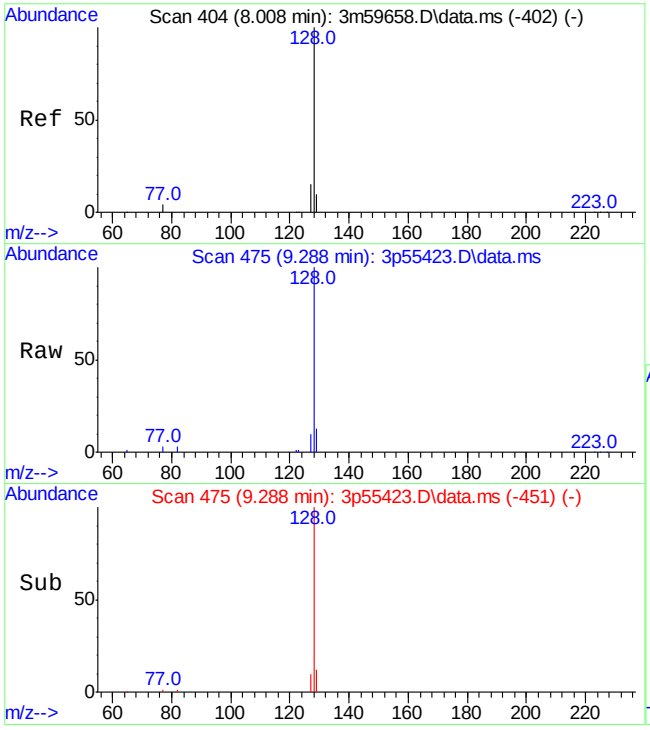
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\E3P2534\
Data File : 3p55423.D
Acq On : 2 Aug 2016 2:08 pm
Operator : ashleyd
Sample : jc24978-6
Misc : op95939a,e3p2534,950,,,1,1
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Aug 02 14:37:38 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3P2503SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Tue Aug 02 12:12:06 2016
Response via : Initial Calibration

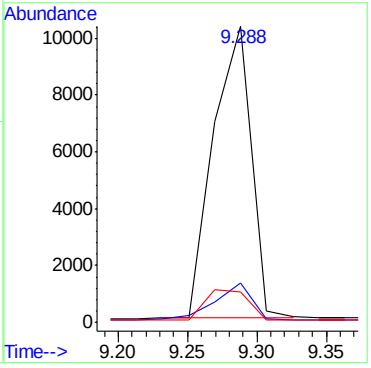




#9
Naphthalene
Concen: 0.40 ppm
RT: 9.288 min Scan# 475
Delta R.T. -0.041 min
Lab File: 3p55423.D
Acq: 2 Aug 2016 2:08 pm

Tgt Ion:128 Resp: 19805

Ion	Ratio	Lower	Upper
128	100		
129	12.3	0.0	40.1
127	9.8	0.0	43.4



7.1.11

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M3004\
Data File : 3m63393.D
Acq On : 2 Aug 2016 12:31 pm
Operator : SHANICEG
Sample : op95939a-mb1
Misc : op95939a,e3m3004,1000
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 02 15:03:30 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2975SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Tue Aug 02 08:23:04 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	10.097	150	419995	4.00	ppm	-0.12
14) Fluorene-d10	13.107	176	548385	4.00	ppm	-0.04
21) Fluoranthene-d10	17.341	212	844861	4.00	ppm	-0.08
31) Benzo(a)pyrene-d12	21.978	264	422043	4.00	ppm	-0.09
System Monitoring Compounds						
3) 2-Fluorophenol	4.152	112	611243	10.46	ppm	-0.12
Spiked Amount 50.000			Recovery = 20.92%			
4) Phenol-d5	5.770	99	730515	8.45	ppm	-0.10
Spiked Amount 50.000			Recovery = 16.90%			
7) Nitrobenzene-d5	7.222	82	2329756	28.70	ppm	-0.15
Spiked Amount 50.000			Recovery = 57.40%			
15) 2-Fluorobiphenyl	10.774	172	4034829	27.11	ppm	-0.10
Spiked Amount 50.000			Recovery = 54.22%			
20) 2,4,6-Tribromophenol	13.672	330	479785	20.91	ppm	-0.03
Spiked Amount 50.000			Recovery = 41.82%			
28) Terphenyl-d14	18.176	244	4665936	36.19	ppm	-0.07
Spiked Amount 50.000			Recovery = 72.38%			

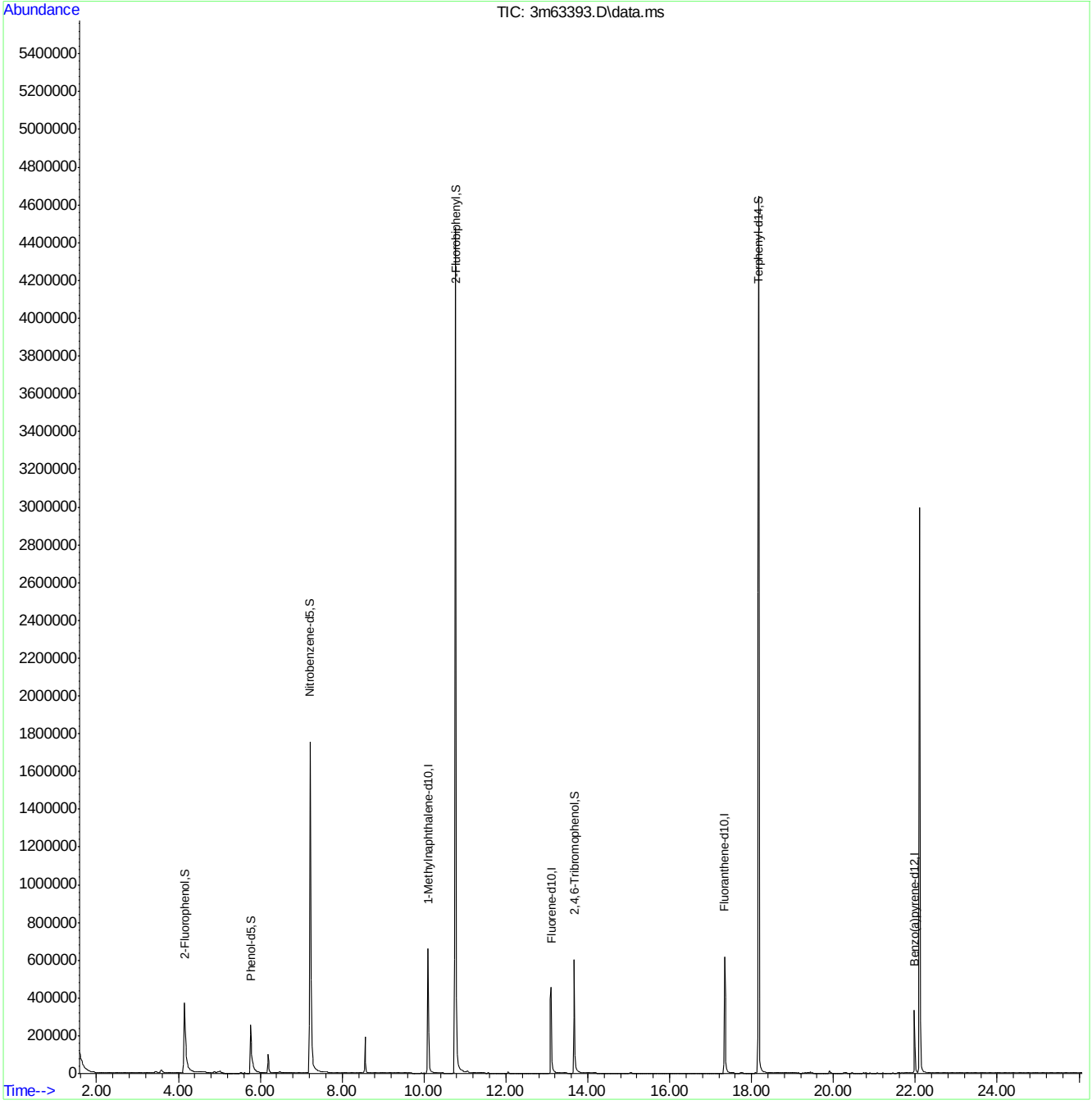
Target Compounds Qvalue

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M3004\
Data File : 3m63393.D
Acq On : 2 Aug 2016 12:31 pm
Operator : SHANICEG
Sample : op95939a-mb1
Misc : op95939a,e3m3004,1000
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 02 15:03:30 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2975SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Tue Aug 02 08:23:04 2016
Response via : Initial Calibration



M3M2975SIM.M Tue Aug 02 15:08:55 2016 RPT1 Page: 2

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\E3P2534\
Data File : 3p55421.D
Acq On : 2 Aug 2016 1:02 pm
Operator : ashleyd
Sample : op95939a-mb1
Misc : op95939a,e3p2534,1000,,,1,1
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Aug 02 14:36:47 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3P2503SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Tue Aug 02 12:12:06 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	10.768	150	73226	4.00	ppm	0.00
14) Fluorene-d10	13.739	176	116523	4.00	ppm	0.00
21) Fluoranthene-d10	17.905	212	172162	4.00	ppm	0.00
31) Benzo(a)pyrene-d12	22.478	264	135242	4.00	ppm	0.00
System Monitoring Compounds						
3) 2-Fluorophenol	4.760	112	157113	13.29	ppm	-0.13
Spiked Amount 50.000			Recovery = 26.58%			
4) Phenol-d5	6.328	99	169072	10.68	ppm	-0.08
Spiked Amount 50.000			Recovery = 21.36%			
7) Nitrobenzene-d5	7.895	82	359878	30.23	ppm	-0.06
Spiked Amount 50.000			Recovery = 60.46%			
15) 2-Fluorobiphenyl	11.412	172	663433	23.14	ppm	-0.05
Spiked Amount 50.000			Recovery = 46.28%			
20) 2,4,6-Tribromophenol	14.286	330	118478	32.48	ppm	0.01
Spiked Amount 50.000			Recovery = 64.96%			
28) Terphenyl-d14	18.693	244	687926	30.35	ppm	0.03
Spiked Amount 50.000			Recovery = 60.70%			

Target Compounds Qvalue

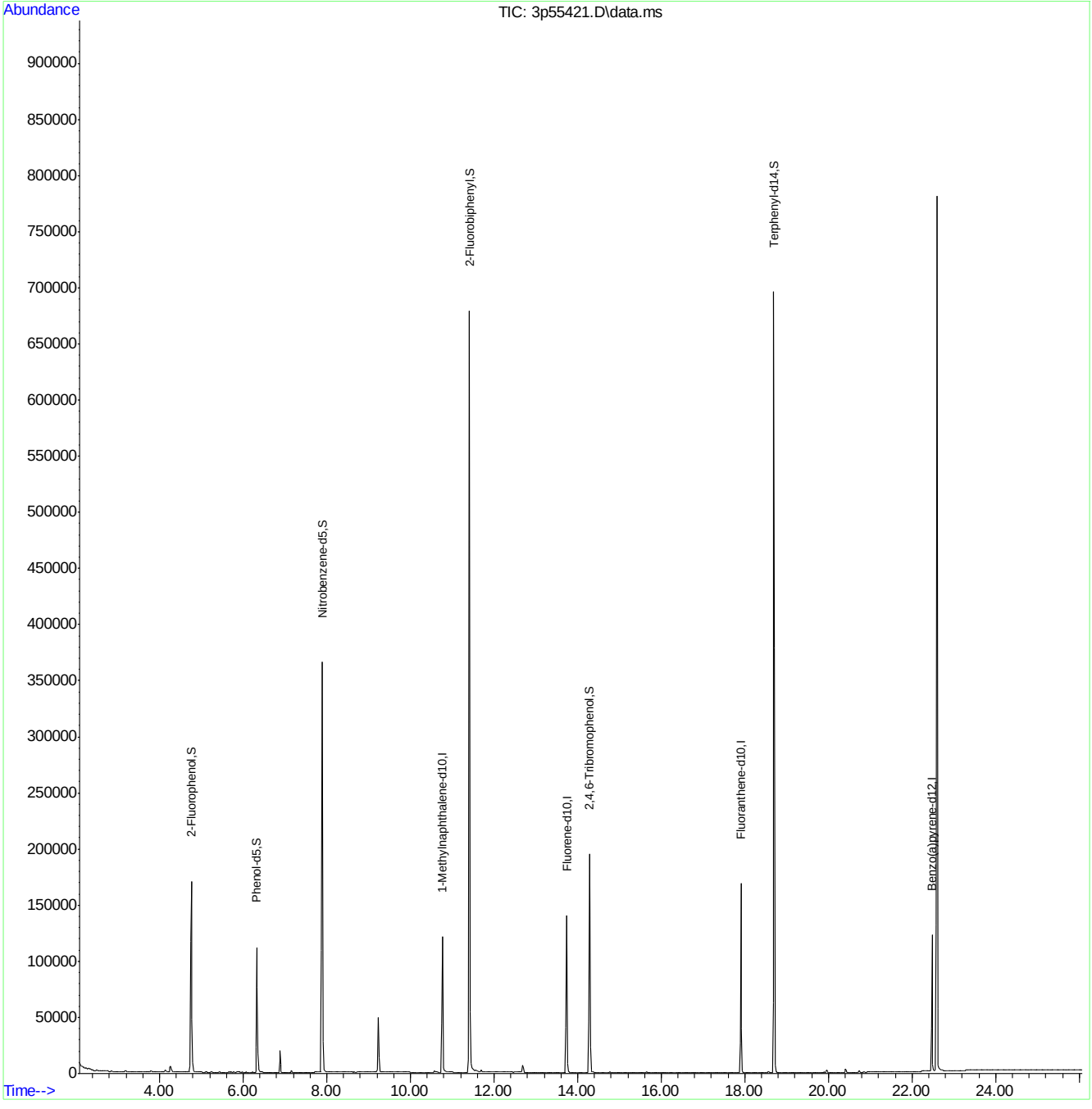
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC24978

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\E3P2534\
Data File : 3p55421.D
Acq On : 2 Aug 2016 1:02 pm
Operator : ashleyd
Sample : op95939a-mb1
Misc : op95939a,e3p2534,1000,,,1,1
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Aug 02 14:36:47 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3P2503SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Tue Aug 02 12:12:06 2016
Response via : Initial Calibration



M3P2503SIM.M Tue Aug 02 14:36:52 2016 Page: 2

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\E3P2534\
Data File : 3p55422.D
Acq On : 2 Aug 2016 1:35 pm
Operator : ashleyd
Sample : op95939a-bs12
Misc : op95939a,e3p2534,1000,,,1,1
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Aug 02 14:37:03 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3P2503SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Tue Aug 02 12:12:06 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	10.768	150	84499	4.00	ppm	0.00
14) Fluorene-d10	13.740	176	134429	4.00	ppm	0.00
21) Fluoranthene-d10	17.905	212	203571	4.00	ppm	0.00
31) Benzo(a)pyrene-d12	22.478	264	152660	4.00	ppm	0.00
System Monitoring Compounds						
3) 2-Fluorophenol	4.760	112	227589	16.68	ppm	-0.13
Spiked Amount 50.000			Recovery = 33.36%			
4) Phenol-d5	6.328	99	228668	12.52	ppm	-0.08
Spiked Amount 50.000			Recovery = 25.04%			
7) Nitrobenzene-d5	7.895	82	391932	28.53	ppm	-0.06
Spiked Amount 50.000			Recovery = 57.06%			
15) 2-Fluorobiphenyl	11.412	172	723153	21.86	ppm	-0.05
Spiked Amount 50.000			Recovery = 43.72%			
20) 2,4,6-Tribromophenol	14.286	330	141752	33.69	ppm	0.01
Spiked Amount 50.000			Recovery = 67.38%			
28) Terphenyl-d14	18.693	244	804231	30.00	ppm	0.03
Spiked Amount 50.000			Recovery = 60.00%			
Target Compounds						Qvalue
2) 1,4-dioxane	2.489	88	4041	0.47	ppm	# 40
5) Phenol	6.353	94	24073	1.52	ppm	# 75
6) bis(2-Chloroethyl)ether	6.461	93	8260	0.55	ppm	85
8) Nitrobenzene	7.933	77	8213	0.54	ppm	89
9) Naphthalene	9.288	128	26088	0.47	ppm	92
10) Hexachlorobutadiene	9.590	225	2440	0.26	ppm	96
11) 2-Methylnaphthalene	10.624	141	12950	0.43	ppm	71
13) Hexachlorocyclopentadiene	11.006	237	477	0.22	ppm	93
16) Acenaphthylene	12.391	152	21831	0.46	ppm	97
17) Acenaphthene	12.756	153	18654	0.62	ppm	87
18) 4,6-dinitro-2-methylph...	13.947	198	11025	4.76	ppm	# 45
19) Fluorene	13.796	166	16173	0.57	ppm	89
22) Hexachlorobenzene	14.891	284	5608	0.50	ppm	70
23) Pentachlorophenol	15.324	266	17619	3.55	ppm	99
24) Phenanthrene	15.679	178	32315	0.68	ppm	99
25) Anthracene	15.787	178	26349	0.65	ppm	99
26) Fluoranthene	17.936	202	29670	0.72	ppm	99
27) Pyrene	18.323	202	34792	0.76	ppm	97
29) Benzo[a]anthracene	20.393	228	30750	0.81	ppm	98
30) Chrysene	20.455	228	29165	0.67	ppm	100
32) Benzo[b]fluoranthene	22.062	252	29976	0.59	ppm	96
33) Benzo[k]fluoranthene	22.093	252	25332	0.59	ppm	99
34) Benzo[a]pyrene	22.497	252	19087	0.48	ppm	95
35) Indeno[1,2,3-cd]pyrene	24.021	276	24979	0.57	ppm	93
36) Dibenz[a,h]anthracene	24.058	278	20694	0.61	ppm	53
37) Benzo[g,h,i]perylene	24.397	276	21057	0.49	ppm	88

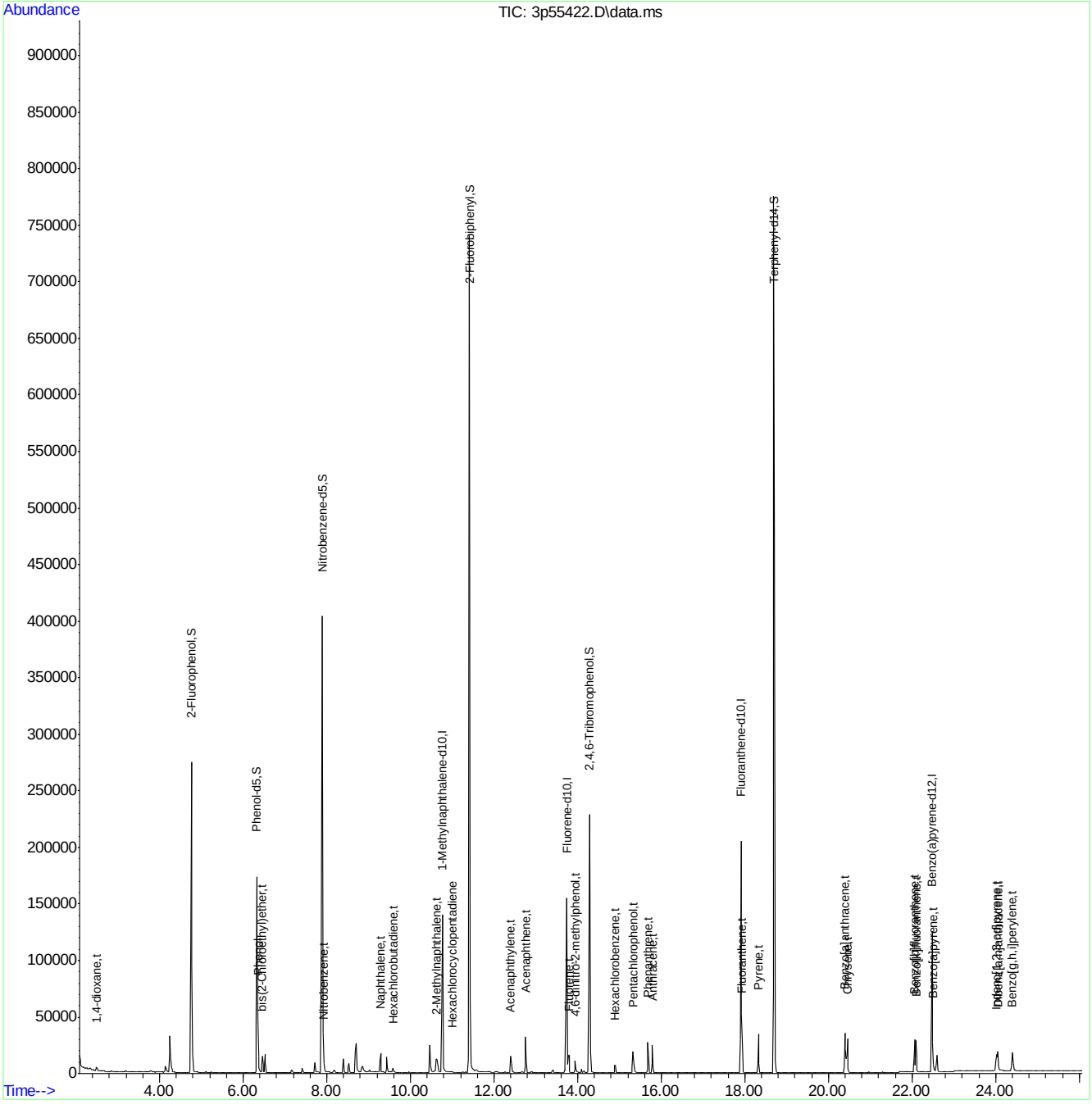
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC24978

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\E3P2534\
Data File : 3p55422.D
Acq On : 2 Aug 2016 1:35 pm
Operator : ashleyd
Sample : op95939a-bs12
Misc : op95939a,e3p2534,1000,,,1,1
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Aug 02 14:37:03 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3P2503SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Tue Aug 02 12:12:06 2016
Response via : Initial Calibration



M3P2503SIM.M Tue Aug 02 14:37:13 2016 Page: 2

SGS ACCUTEST JC24978

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\E3P2546\
Data File : 3p55591.D
Acq On : 9 Aug 2016 3:43 pm
Operator : ashleyd
Sample : op95939a-ms
Misc : op95939a,e3p2546,500
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 09 16:45:22 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3P2503SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Tue Aug 09 15:21:22 2016
Response via : Initial Calibration

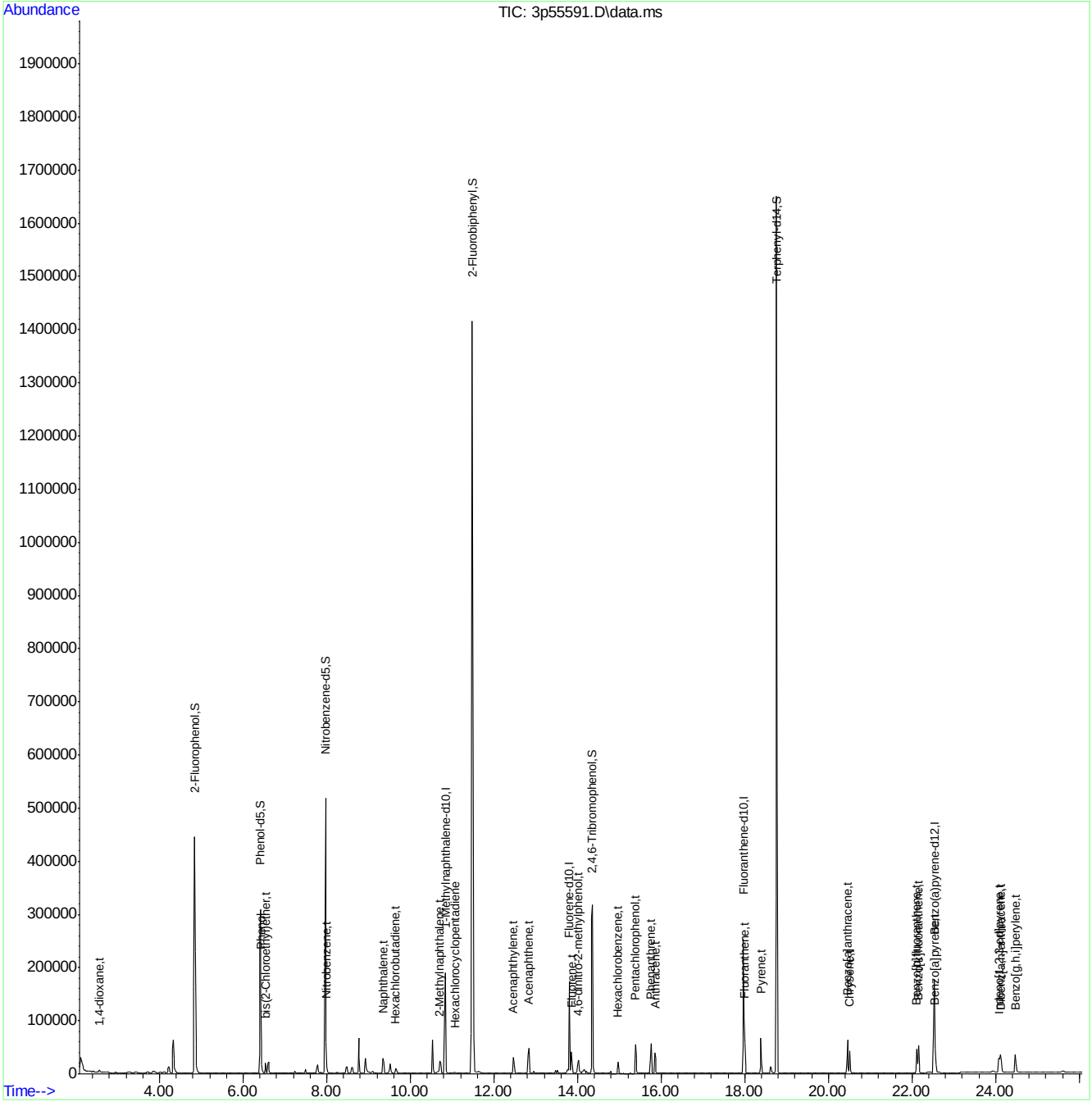
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1-Methylnaphthalene-d10	10.839	150	128510	4.00	ppm		0.14
14) Fluorene-d10	13.796	176	188202	4.00	ppm		0.13
21) Fluoranthene-d10	17.967	212	288496	4.00	ppm		0.09
31) Benzo(a)pyrene-d12	22.535	264	206649	4.00	ppm		0.08
System Monitoring Compounds							
3) 2-Fluorophenol	4.838	112	402890	19.41	ppm		-0.02
Spiked Amount 50.000			Recovery = 38.82%				
4) Phenol-d5	6.413	99	460538	16.58	ppm		0.05
Spiked Amount 50.000			Recovery = 33.16%				
7) Nitrobenzene-d5	7.970	82	583624	27.93	ppm		0.06
Spiked Amount 50.000			Recovery = 55.86%				
15) 2-Fluorobiphenyl	11.484	172	1380597	29.81	ppm		0.08
Spiked Amount 50.000			Recovery = 59.62%				
20) 2,4,6-Tribromophenol	14.342	330	275105	46.70	ppm		0.15
Spiked Amount 50.000			Recovery = 93.40%				
28) Terphenyl-d14	18.755	244	1486279	39.13	ppm		0.12
Spiked Amount 50.000			Recovery = 78.26%				
Target Compounds							Qvalue
2) 1,4-dioxane	2.566	88	5696	0.44	ppm		68
5) Phenol	6.425	94	49851	2.15	ppm	#	79
6) bis(2-Chloroethyl)ether	6.534	93	12514	0.55	ppm		95
8) Nitrobenzene	7.989	77	12535	0.54	ppm		93
9) Naphthalene	9.345	128	45566	0.54	ppm		98
10) Hexachlorobutadiene	9.646	225	6090	0.43	ppm		72
11) 2-Methylnaphthalene	10.696	141	24019	0.53	ppm		79
13) Hexachlorocyclopentadiene	11.078	237	2072	0.37	ppm		90
16) Acenaphthylene	12.463	152	43565	0.66	ppm		80
17) Acenaphthene	12.833	153	31909	0.76	ppm		99
18) 4,6-dinitro-2-methylph...	14.022	198	29401	7.77	ppm		96
19) Fluorene	13.853	166	32861	0.83	ppm	#	68
22) Hexachlorobenzene	14.968	284	13146	0.83	ppm		85
23) Pentachlorophenol	15.386	266	40410	5.57	ppm		98
24) Phenanthrene	15.757	178	64190	0.96	ppm		94
25) Anthracene	15.849	178	52374	0.91	ppm		96
26) Fluoranthene	17.998	202	56603	0.98	ppm		100
27) Pyrene	18.385	202	70075	1.08	ppm		97
29) Benzo[a]anthracene	20.455	228	62263	1.15	ppm		93
30) Chrysene	20.501	228	51831	0.84	ppm		88
32) Benzo[b]fluoranthene	22.108	252	64312	0.94	ppm		87
33) Benzo[k]fluoranthene	22.155	252	41983	0.73	ppm		89
34) Benzo[a]pyrene	22.554	252	36928	0.68	ppm		95
35) Indeno[1,2,3-cd]pyrene	24.077	276	50300	0.84	ppm		92
36) Dibenz[a,h]anthracene	24.115	278	38147	0.83	ppm		52
37) Benzo[g,h,i]perylene	24.472	276	43213	0.74	ppm		97

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\E3P2546\
Data File : 3p55591.D
Acq On : 9 Aug 2016 3:43 pm
Operator : ashleyd
Sample : op95939a-ms
Misc : op95939a,e3p2546,500
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 09 16:45:22 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3P2503SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Tue Aug 09 15:21:22 2016
Response via : Initial Calibration



SGS ACCUTEST JC24978

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\E3P2546\
Data File : 3p55592.D
Acq On : 9 Aug 2016 4:14 pm
Operator : ashleyd
Sample : op95939a-msd
Misc : op95939a,e3p2546,500
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 09 16:45:40 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3P2503SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Tue Aug 09 16:30:30 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	10.839	150	112822	4.00	ppm	#-0.04
14) Fluorene-d10	13.796	176	128021	4.00	ppm	-0.05
21) Fluoranthene-d10	17.967	212	212379	4.00	ppm	-0.04
31) Benzo(a)pyrene-d12	22.535	264	164417	4.00	ppm	-0.03
System Monitoring Compounds						
3) 2-Fluorophenol	4.838	112	333130	18.28	ppm	-0.10
Spiked Amount 50.000			Recovery = 36.56%			
4) Phenol-d5	6.413	99	405910	16.65	ppm	-0.06
Spiked Amount 50.000			Recovery = 33.30%			
7) Nitrobenzene-d5	7.970	82	486974	26.55	ppm	-0.07
Spiked Amount 50.000			Recovery = 53.10%			
15) 2-Fluorobiphenyl	11.484	172	1191161	37.81	ppm	-0.07
Spiked Amount 50.000			Recovery = 75.62%			
20) 2,4,6-Tribromophenol	14.342	330	180044	44.93	ppm	-0.04
Spiked Amount 50.000			Recovery = 89.86%			
28) Terphenyl-d14	18.755	244	1007099	36.02	ppm	-0.02
Spiked Amount 50.000			Recovery = 72.04%			
Target Compounds						Qvalue
2) 1,4-dioxane	2.551	88	3275	0.29	ppm #	65
5) Phenol	6.425	94	42673	2.09	ppm #	74
6) bis(2-Chloroethyl)ether	6.534	93	10706	0.53	ppm	92
8) Nitrobenzene	7.989	77	8897	0.44	ppm	97
9) Naphthalene	9.345	128	39395	0.53	ppm	99
10) Hexachlorobutadiene	9.646	225	4958	0.39	ppm	73
11) 2-Methylnaphthalene	10.696	141	20289	0.51	ppm	79
13) Hexachlorocyclopentadiene	11.078	237	1381	0.32	ppm	89
16) Acenaphthylene	12.463	152	33763	0.75	ppm	80
17) Acenaphthene	12.833	153	23030	0.81	ppm	98
18) 4,6-dinitro-2-methylph...	14.022	198	14186	5.99	ppm	91
19) Fluorene	13.853	166	20494	0.76	ppm #	67
22) Hexachlorobenzene	14.968	284	7816	0.67	ppm	83
23) Pentachlorophenol	15.386	266	23009	4.37	ppm	96
24) Phenanthrene	15.757	178	39230	0.79	ppm	95
25) Anthracene	15.849	178	31537	0.75	ppm	95
26) Fluoranthene	17.998	202	35031	0.82	ppm	99
27) Pyrene	18.384	202	41122	0.86	ppm	98
29) Benzo[a]anthracene	20.455	228	34037	0.86	ppm	95
30) Chrysene	20.517	228	30216	0.66	ppm	97
32) Benzo[b]fluoranthene	22.108	252	35537	0.65	ppm	87
33) Benzo[k]fluoranthene	22.154	252	23866	0.52	ppm	89
34) Benzo[a]pyrene	22.553	252	19928	0.46	ppm	95
35) Indeno[1,2,3-cd]pyrene	24.077	276	27109	0.57	ppm	92
36) Dibenz[a,h]anthracene	24.115	278	21104	0.58	ppm	52
37) Benzo[g,h,i]perylene	24.472	276	23830	0.51	ppm	98

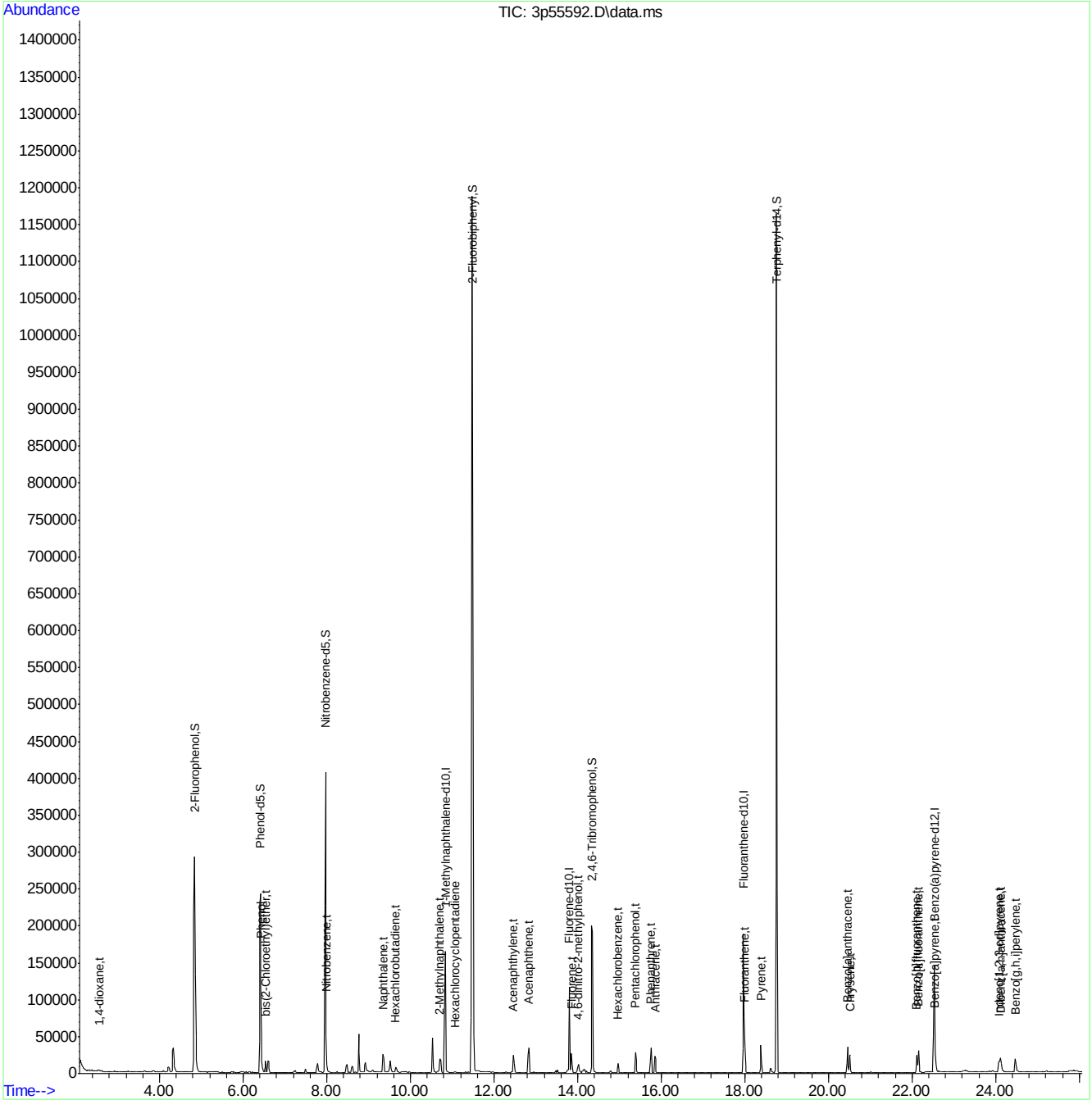
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC24978

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\E3P2546\
Data File : 3p55592.D
Acq On : 9 Aug 2016 4:14 pm
Operator : ashleyd
Sample : op95939a-msd
Misc : op95939a,e3p2546,500
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 09 16:45:40 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3P2503SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Tue Aug 09 16:30:30 2016
Response via : Initial Calibration



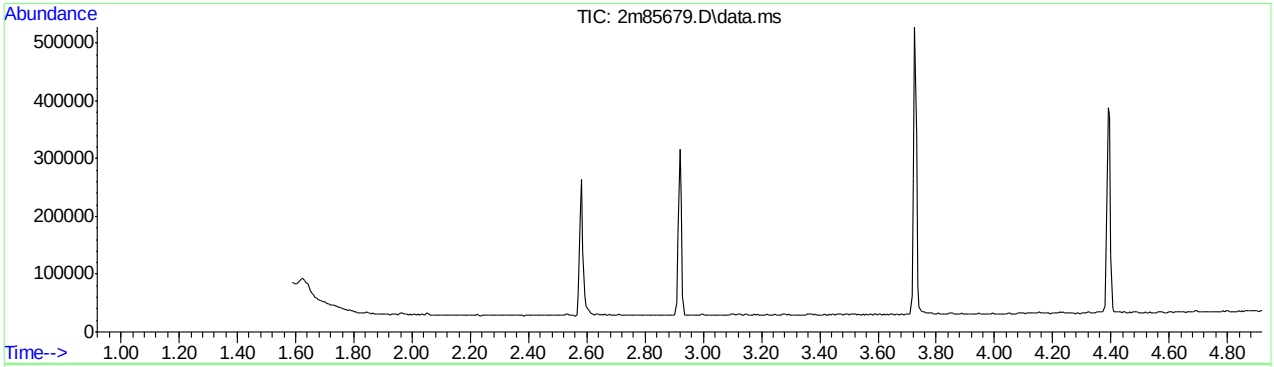
SGS ACCUTEST JC24978

DFTPP

Data Path : C:\msdchem\1\DATA\E2M3789\
Data File : 2m85679.D
Acq On : 20 Jul 2016 10:11 am
Operator : ashleyn
Sample : dftpp
Misc : op95288,e2m3789
ALS Vial : 1 Sample Multiplier: 1

Integration File: rteint.p

Method : C:\msdchem\1\METHODS\dftpp2m.M
Title : Semi Volatile GC/MS,zb-5msi30mx .25mmx .25umMon TuThu Jun 09 16:42:34 2016
Last Update : Thu Jun 09 16:42:34 2016



AutoFind: Scans 249, 250, 251; Background Corrected with Scan 244

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	54.9	12874	PASS
68	69	0.00	2	1.7	180	PASS
69	198	0.00	100	45.8	10732	PASS
70	69	0.00	2	0.5	55	PASS
127	198	40	60	57.1	13400	PASS
197	198	0.00	1	0.2	58	PASS
198	198	100	100	100.0	23456	PASS
199	198	5	9	6.8	1595	PASS
275	198	10	30	22.6	5291	PASS
365	198	1	100	2.9	669	PASS
441	443	0.10	100	72.2	2492	PASS
442	198	40	100	74.9	17560	PASS
443	442	17	23	19.7	3452	PASS

Average of 2.913 to 2.924 min.: 2m85679.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
37.05	68	56.00	279	68.15	180	81.10	883
38.05	115	57.10	843	69.05	10732	82.00	209
39.10	1064	58.00	55	69.95	55	83.00	156
40.00	16	60.10	56	72.95	41	85.00	118
45.00	42	61.05	155	74.10	1000	86.95	69
48.00	32	62.00	162	75.10	1740	88.00	10
50.05	3068	63.05	445	76.10	609	91.10	199
51.10	12874	64.00	28	77.10	13275	91.95	193
52.10	626	64.20	19	78.10	903	93.10	1250
53.05	38	65.05	236	79.05	740	94.05	86
55.05	57	66.95	34	80.00	517	95.00	17

Average of 2.913 to 2.924 min.: 2m85679.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
95.20	22	108.00	626	120.00	35	131.00	92
96.00	97	109.20	137	122.05	237	131.90	24
98.00	838	110.10	6771	123.00	333	133.10	21
99.05	763	111.05	1049	124.00	160	134.00	152
100.05	81	112.05	131	124.95	150	135.00	414
101.00	466	113.10	21	125.95	51	136.00	149
103.00	148	116.00	165	126.20	66	137.05	206
103.95	277	117.10	2534	127.10	13400	140.00	63
105.05	281	117.90	39	128.05	1064	141.05	579
106.00	81	118.05	119	129.10	4671	142.00	179
107.10	3649	119.00	49	130.00	464	143.00	128

Average of 2.913 to 2.924 min.: 2m85679.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
144.10	24	155.05	307	166.05	186	176.05	79
145.10	33	156.00	566	167.10	1167	177.05	209
146.00	82	157.05	89	168.05	589	178.05	87
146.95	299	157.95	88	169.05	110	179.00	723
148.05	629	158.90	24	170.20	24	180.05	534
149.00	156	159.10	45	171.00	24	181.05	286
150.15	45	159.95	150	172.05	96	181.90	17
151.05	89	161.05	286	173.05	139	182.20	22
152.00	24	162.10	52	174.10	259	183.20	20
153.00	186	163.10	16	175.10	436	184.00	60
154.05	133	165.05	203	175.90	32	185.05	391

Average of 2.913 to 2.924 min.: 2m85679.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
186.10	3043	198.10	23456	210.15	55	226.10	90
187.10	893	199.00	1595	211.10	230	227.10	1075
188.05	108	200.05	133	215.00	40	228.00	132
189.00	189	201.75	84	216.05	102	229.05	219
191.00	114	203.05	140	217.05	1370	229.95	46
192.05	279	204.10	778	217.95	181	231.05	112
193.05	281	205.10	1316	221.10	1095	234.05	50
194.10	44	206.10	5655	222.10	51	235.00	104
195.20	31	207.05	721	223.00	317	236.00	40
196.05	647	208.00	192	224.10	2973	237.05	92
197.00	58	209.00	55	225.05	731	239.00	26

Average of 2.913 to 2.924 min.: 2m85679.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
241.00	50	255.10	11447	276.10	707	304.05	73
242.00	158	256.10	1658	277.05	447	314.10	28
243.05	162	257.05	135	278.00	57	314.30	21
244.15	2228	258.05	585	283.10	20	315.05	149

245.10	319	258.95	93	284.90	32	316.05	112
246.05	390	265.05	289	285.15	56	321.00	23
247.05	63	265.95	53	293.05	93	323.10	553
248.80	31	272.00	17	295.10	24	324.15	80
249.10	44	273.05	396	296.10	1456	326.95	78
253.10	64	274.10	942	297.05	206	327.95	66
253.80	42	275.10	5291	303.00	159	332.20	17

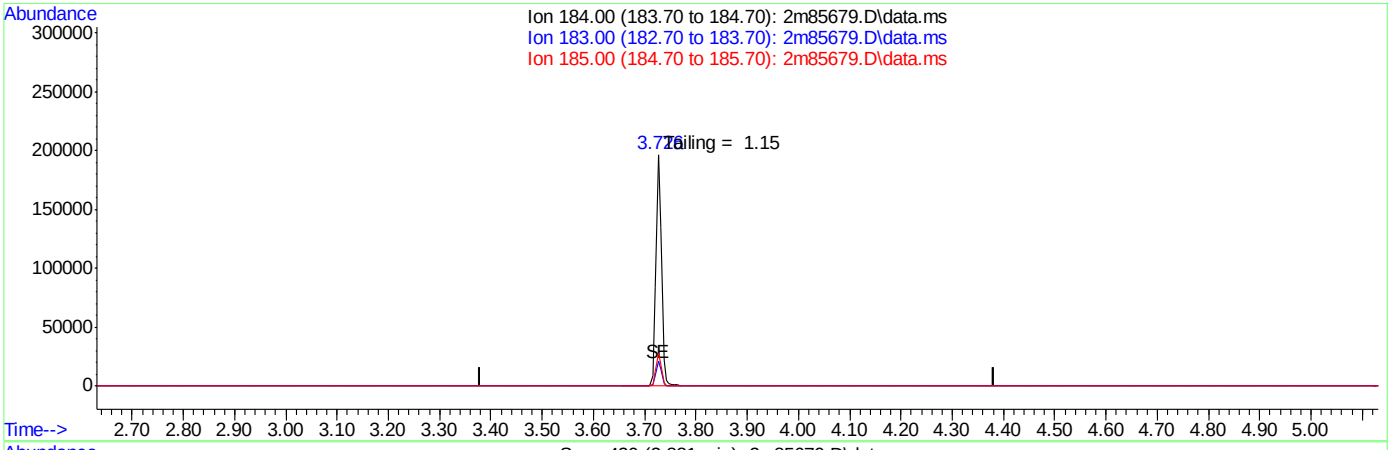
Average of 2.913 to 2.924 min.: 2m85679.D\data.ms
dftpp
Modified:subtracted

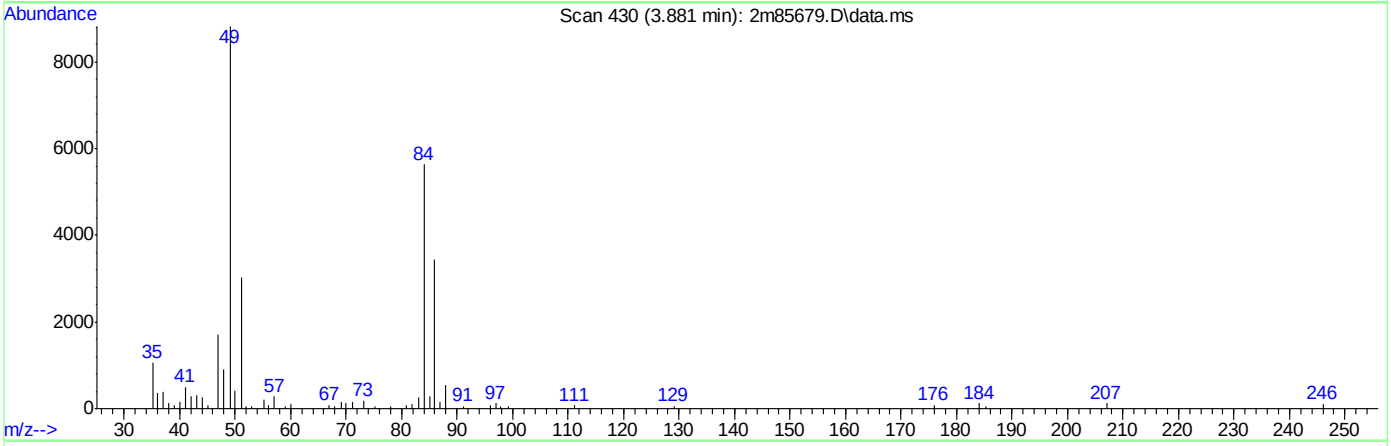
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
333.05	47	372.05	287	424.10	230		
334.10	315	373.05	57	436.20	18		
335.00	75	383.05	81	441.10	2492		
341.05	74	390.10	22	442.10	17560		
346.05	107	391.00	17	443.10	3452		
352.10	171	402.10	112	444.10	289		
353.05	105	403.00	192				
354.10	189	404.00	42				
365.05	669	421.05	170				
366.00	117	422.05	106				
371.00	20	423.10	987				

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E2M3789\
Data File : 2m85679.D
Acq On : 20 Jul 2016 10:11 am
Operator : ashleyn
Sample : dftpp
Misc : op95288,e2m3789
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 20 10:18:21 2016
Quant Method : C:\msdchem\1\METHODS\dftpp2m.M
Quant Title : Semi Volatile GC/MS,zb-5msi30mx .25mmx .25umMon TuThu Jun 09 16:42:34 2016
QLast Update : Thu Jun 09 16:42:34 2016
Response via : Initial Calibration





TIC: 2m85679.D\data.ms

(1) Benzidine

3.881min (-3.881) 0.00

response 0

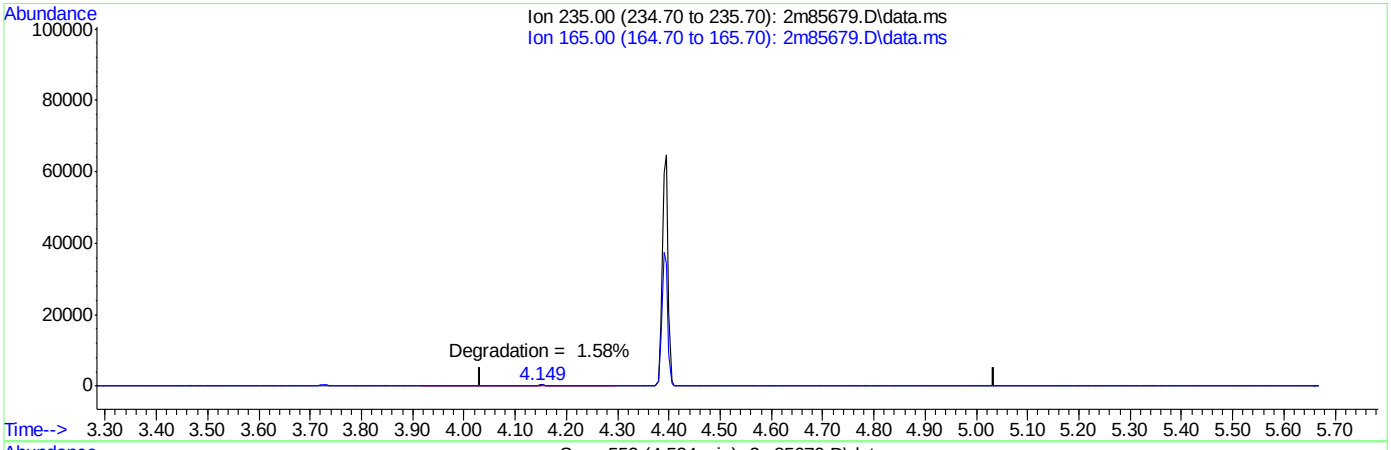
Ion	Exp%	Act%
184.00	100	0.00
183.00	11.70	0.00
185.00	13.90	0.00
0.00	0.00	0.00

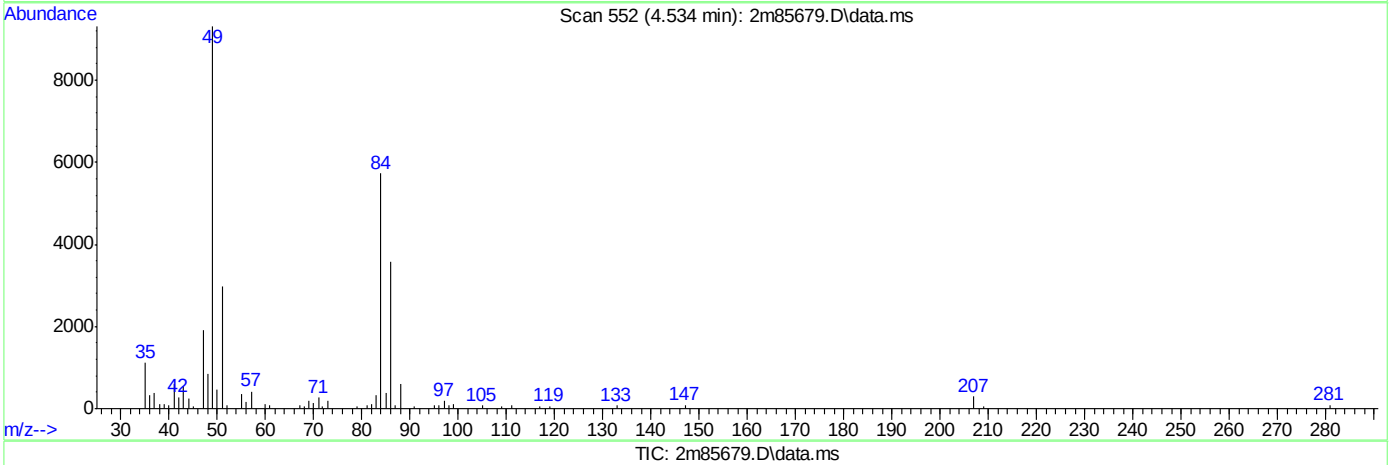
SGS ACCUTEST JC24978

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E2M3789\
Data File : 2m85679.D
Acq On : 20 Jul 2016 10:11 am
Operator : ashleyn
Sample : dftpp
Misc : op95288,e2m3789
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 20 10:18:21 2016
Quant Method : C:\msdchem\1\METHODS\dftpp2m.M
Quant Title : Semi Volatile GC/MS,zb-5msi30mx .25mmx .25umMon TuThu Jun 09 16:42:34 2016
QLast Update : Thu Jun 09 16:42:34 2016
Response via : Initial Calibration





TIC: 2m85679.D\data.ms

(2) ddt

4.534min (-4.534) 0.00

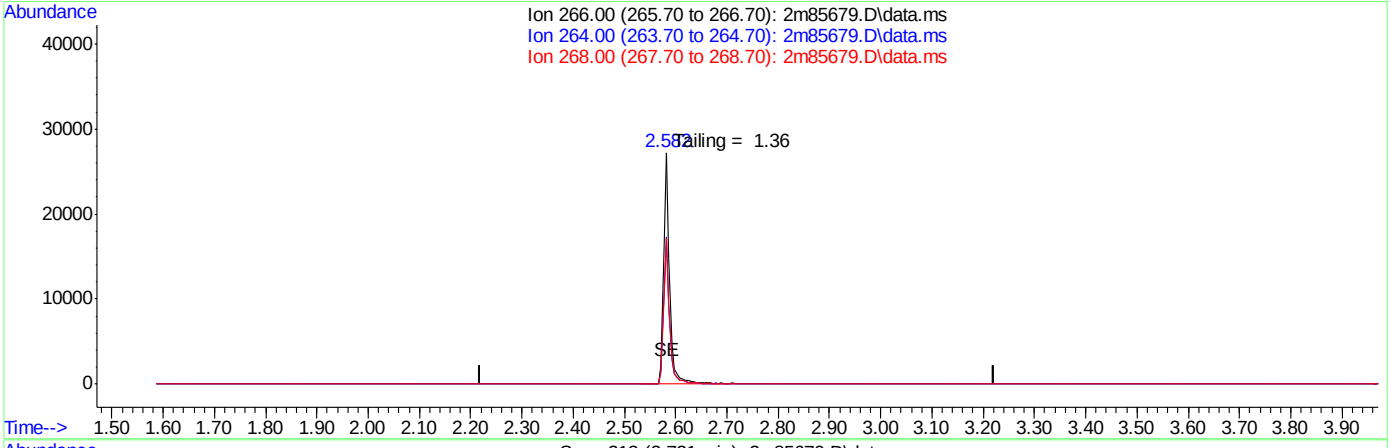
response 0

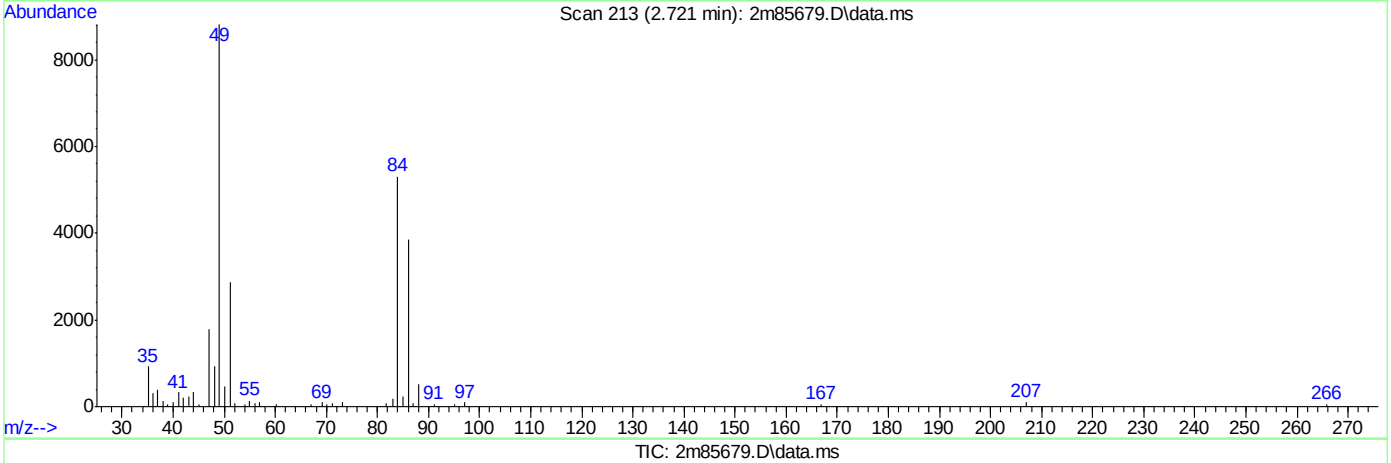
Ion	Exp%	Act%
235.00	100	0.00
165.00	67.20	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\DATA\E2M3789\
Data File : 2m85679.D
Acq On    : 20 Jul 2016  10:11 am
Operator  : ashleyn
Sample    : dftpp
Misc      : op95288,e2m3789
ALS Vial  : 1   Sample Multiplier: 1

Quant Time: Jul 20 10:18:21 2016
Quant Method : C:\msdchem\1\METHODS\dftpp2m.M
Quant Title  : Semi Volatile GC/MS,zb-5msi30mx .25mmx .25umMon TuThu Jun 09 16:42:34 2016
QLast Update : Thu Jun 09 16:42:34 2016
Response via : Initial Calibration
```





TIC: 2m85679.D\data.ms

(3) Pentachlorophenol

2.721min (-2.721) 0.00

response 0

Ion	Exp%	Act%
266.00	100	0.00
264.00	62.40	0.00#
268.00	62.70	0.00#
0.00	0.00	0.00

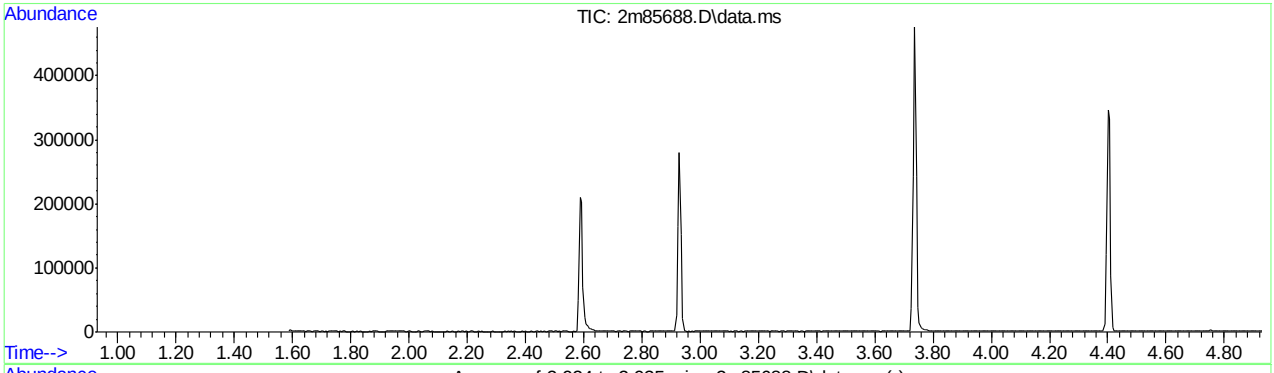
SGS ACCUTEST JC24978

DFTPP

Data Path : C:\msdchem\1\DATA\E2M3790\
Data File : 2m85688.D
Acq On : 20 Jul 2016 2:43 pm
Operator : ashleyn
Sample : dftpp
Misc : op95288,e2m3790
ALS Vial : 1 Sample Multiplier: 1

Integration File: rteint.p

Method : C:\msdchem\1\METHODS\dftpp2m.M
Title : Semi Volatile GC/MS,zb-5msi30mx .25mmx .25umMon TuThu Jun 09 16:42:34 2016
Last Update : Thu Jun 09 16:42:34 2016



AutoFind: Scans 251, 252, 253; Background Corrected with Scan 246

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	54.4	11905	PASS
68	69	0.00	2	1.9	186	PASS
69	198	0.00	100	44.2	9662	PASS
70	69	0.00	2	0.3	29	PASS
127	198	40	60	57.3	12545	PASS
197	198	0.00	1	0.3	64	PASS
198	198	100	100	100.0	21875	PASS
199	198	5	9	6.8	1492	PASS
275	198	10	30	23.9	5220	PASS
365	198	1	100	3.4	748	PASS
441	443	0.10	100	77.1	2528	PASS
442	198	40	100	82.5	18057	PASS
443	442	17	23	18.2	3278	PASS

Average of 2.924 to 2.935 min.: 2m85688.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
37.00	61	56.00	305	70.00	29	83.00	197
38.05	170	57.00	683	73.10	89	85.05	139
39.10	982	57.90	20	74.10	929	85.95	175
40.00	45	58.10	16	75.10	1594	87.10	82
41.05	79	61.05	128	76.10	562	88.10	24
49.00	72	62.10	157	77.10	12450	91.05	184
50.10	2861	63.10	373	78.10	824	92.05	144
51.10	11905	64.05	45	79.05	711	93.00	1110
52.10	591	65.05	202	80.05	509	94.05	105
53.10	21	68.00	186	81.00	771	95.95	49
54.95	8	69.10	9662	82.00	193	97.10	17

Average of 2.924 to 2.935 min.: 2m85688.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
98.00	880	110.10	6238	124.00	150	135.95	147
99.00	745	111.00	932	125.00	122	137.05	161
100.00	32	112.00	95	125.90	59	140.00	27
101.00	410	113.10	23	126.20	24	141.00	484
103.00	134	115.90	41	127.10	12545	141.95	179
104.00	258	116.05	113	128.05	850	143.00	137
105.05	208	117.05	2304	129.10	4497	144.10	18
106.10	95	117.95	171	130.00	427	144.90	20
107.10	3419	120.10	41	131.00	39	145.90	44
108.00	597	122.05	204	134.00	116	146.10	36
109.10	105	123.00	310	135.05	332	147.00	248

Average of 2.924 to 2.935 min.: 2m85688.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
148.00	626	159.05	60	171.00	17	184.00	19
149.00	152	160.00	154	172.05	120	185.05	366
149.90	18	161.00	261	172.90	92	186.10	2973
150.95	66	161.95	74	174.05	194	187.10	768
151.50	25	164.00	19	175.10	398	188.00	50
152.90	117	165.00	194	176.05	104	188.20	61
154.05	134	166.00	140	177.05	186	189.00	152
155.05	334	167.10	1103	178.00	26	191.10	77
156.10	458	168.05	557	179.00	694	191.80	41
157.05	71	168.95	88	180.00	560	192.05	157
158.00	108	170.00	24	181.00	261	193.05	267

Average of 2.924 to 2.935 min.: 2m85688.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
194.00	55	207.10	714	221.10	1153	231.05	79
196.05	631	208.05	160	221.70	47	234.05	58
197.10	64	209.10	22	222.10	50	235.10	74
198.10	21875	210.10	66	223.05	339	236.05	50
199.05	1492	211.05	197	224.10	2756	237.05	95
200.05	118	211.80	19	225.10	671	239.80	17
201.55	89	215.10	24	226.10	81	240.90	20
203.00	154	215.90	26	227.05	1129	241.20	30
204.10	763	216.05	110	228.05	134	242.05	133
205.10	1311	217.05	1256	229.00	238	243.05	171
206.10	5394	218.00	176	230.10	19	244.10	2215

Average of 2.924 to 2.935 min.: 2m85688.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
245.05	300	258.05	518	278.00	37	315.05	152
246.05	399	259.00	98	283.00	21	316.10	61
246.95	60	263.90	19	284.90	34	321.00	33
249.00	68	265.05	260	291.90	19	323.10	523

dftpp2m.M Thu Jul 21 10:16:46 2016 Page: 2

252.00	17	266.10	23	293.05	104	324.05	86
253.00	34	271.10	27	294.10	17	327.00	84
253.70	46	273.05	379	296.10	1329	327.90	33
254.20	57	274.10	896	297.00	188	333.10	22
255.10	11397	275.10	5220	303.05	158	334.10	341
256.10	1528	276.10	619	304.05	47	335.10	71
257.10	128	277.05	431	314.00	65	341.00	53

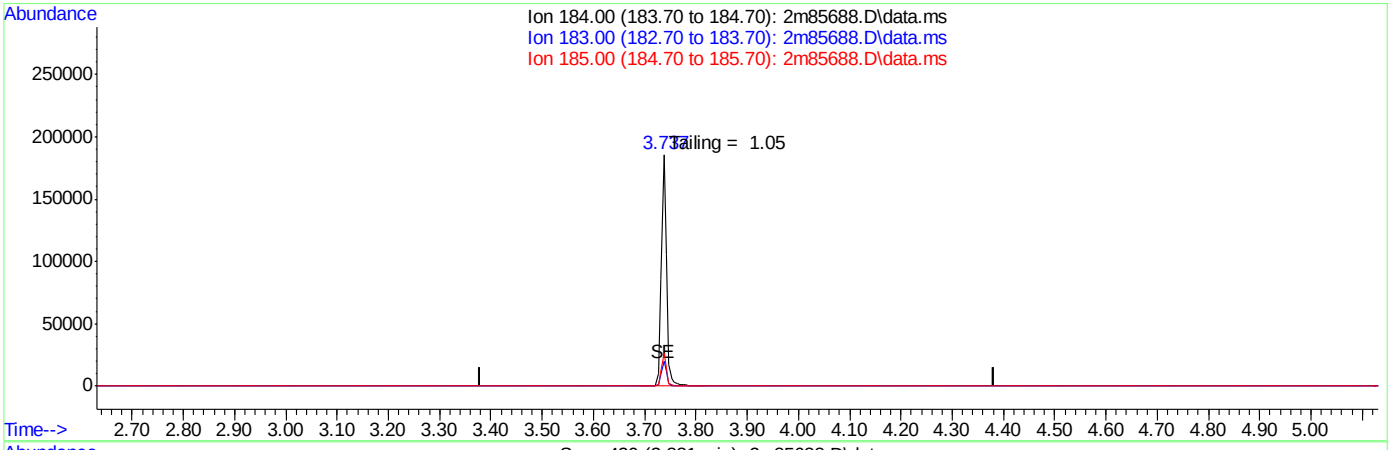
Average of 2.924 to 2.935 min.: 2m85688.D\data.ms
dftpp
Modified:subtracted

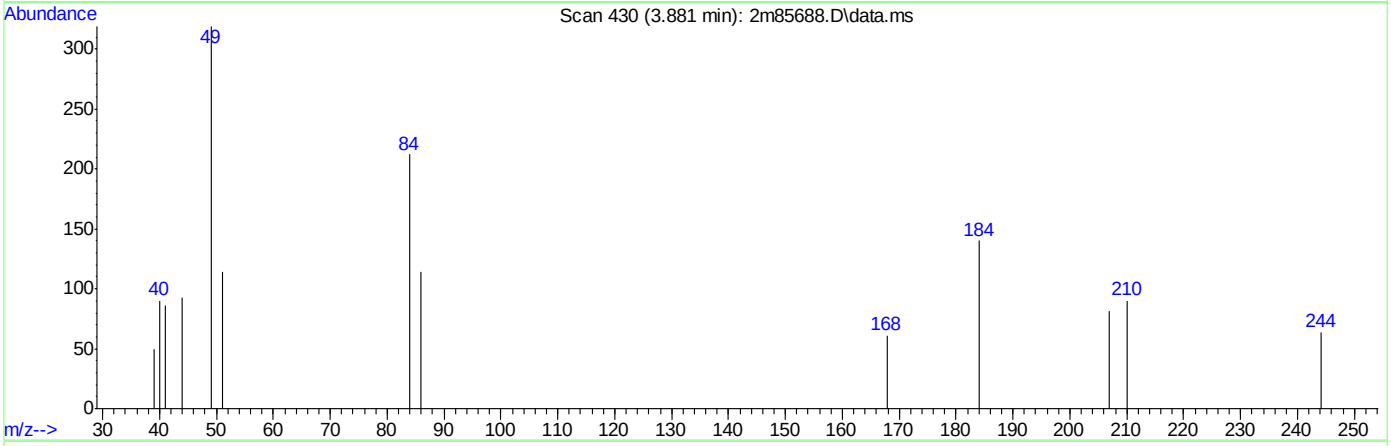
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
346.05	128	389.90	20	432.10	16		
352.10	170	390.10	22	441.10	2528		
353.10	84	402.00	139	442.10	18057		
354.10	191	403.05	186	443.10	3278		
365.00	748	404.10	57	444.10	291		
366.05	116	420.90	28				
371.00	22	421.10	142				
372.05	354	422.05	139				
372.90	23	423.10	1015				
373.10	32	424.05	254				
383.05	79	425.10	24				

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E2M3790\
Data File : 2m85688.D
Acq On : 20 Jul 2016 2:43 pm
Operator : ashleyn
Sample : dftpp
Misc : op95288,e2m3790
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 20 14:54:06 2016
Quant Method : C:\msdchem\1\METHODS\dftpp2m.M
Quant Title : Semi Volatile GC/MS,zb-5msi30mx .25mmx .25umMon TuThu Jun 09 16:42:34 2016
QLast Update : Thu Jun 09 16:42:34 2016
Response via : Initial Calibration





TIC: 2m85688.D\data.ms

(1) Benzidine

3.881min (-3.881) 0.00

response 0

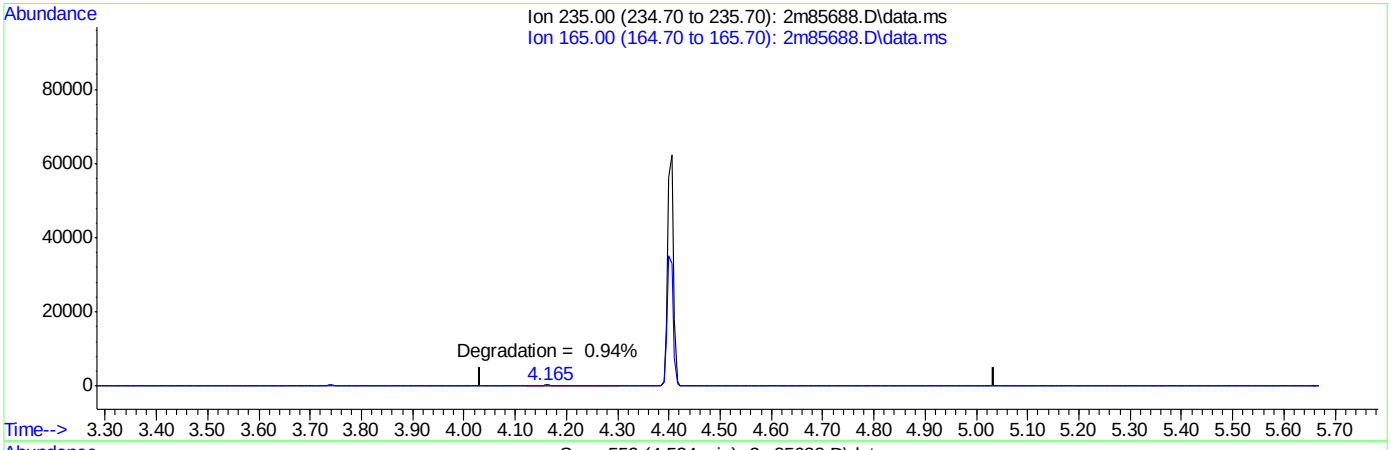
Ion	Exp%	Act%
184.00	100	0.00
183.00	11.70	0.00
185.00	13.90	0.00
0.00	0.00	0.00

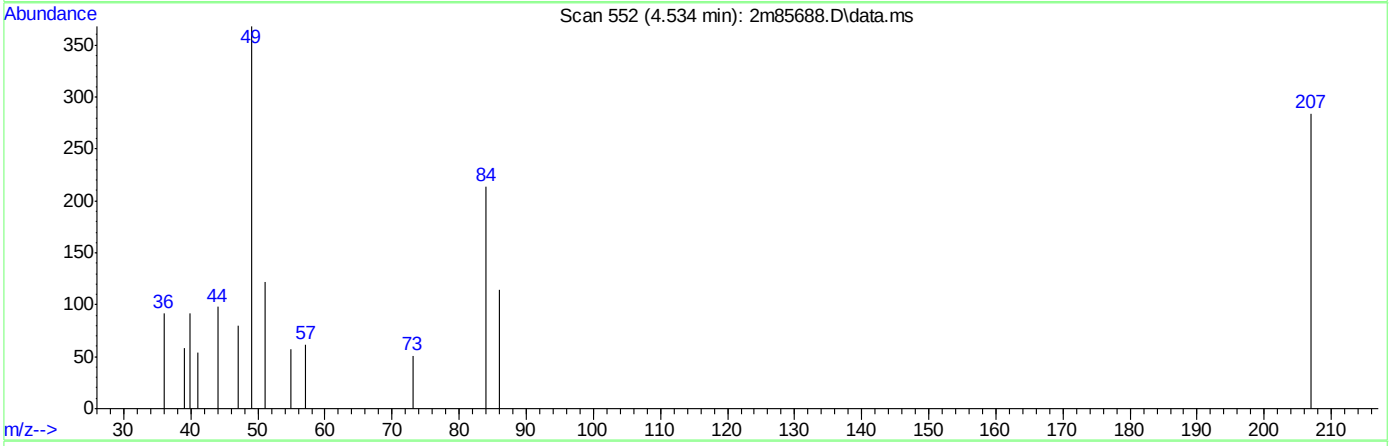
SGS ACCUTEST JC24978

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E2M3790\
Data File : 2m85688.D
Acq On : 20 Jul 2016 2:43 pm
Operator : ashleyn
Sample : dftpp
Misc : op95288,e2m3790
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 20 14:54:06 2016
Quant Method : C:\msdchem\1\METHODS\dftpp2m.M
Quant Title : Semi Volatile GC/MS,zb-5msi30mx .25mmx .25umMon TuThu Jun 09 16:42:34 2016
QLast Update : Thu Jun 09 16:42:34 2016
Response via : Initial Calibration





TIC: 2m85688.D\data.ms

(2) ddt

4.534min (-4.534) 0.00

response 0

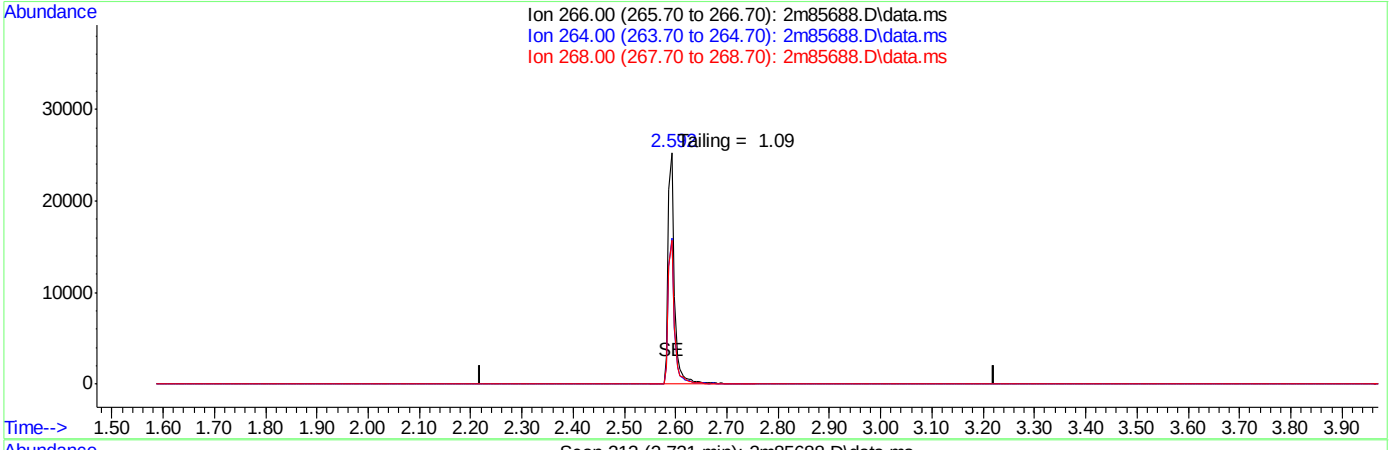
Ion	Exp%	Act%
235.00	100	0.00
165.00	67.20	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

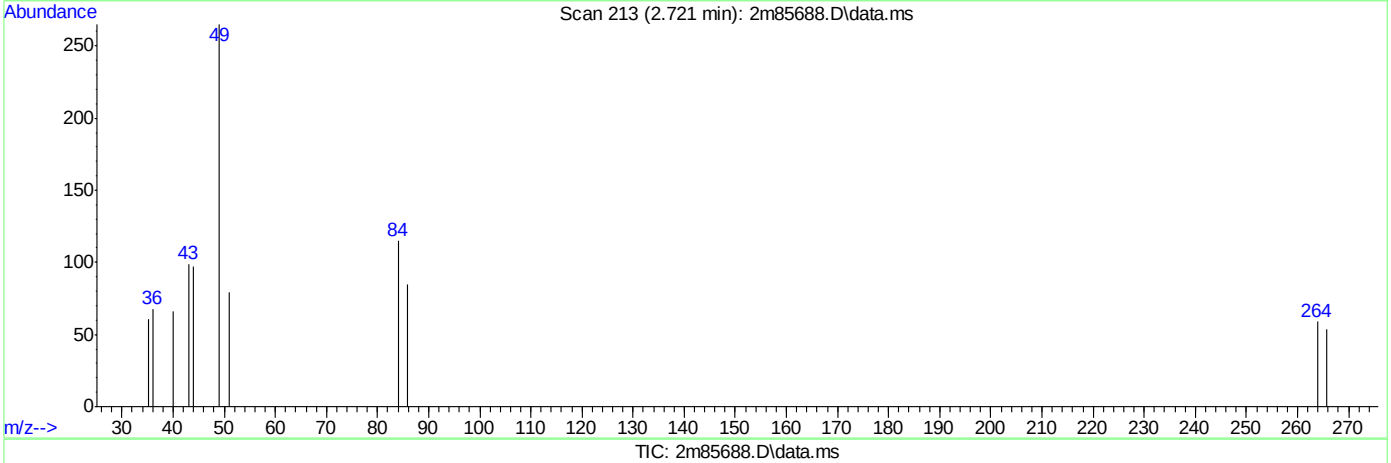
SGS ACCUTEST JC24978

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E2M3790\
Data File : 2m85688.D
Acq On : 20 Jul 2016 2:43 pm
Operator : ashleyn
Sample : dftpp
Misc : op95288,e2m3790
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 20 14:54:06 2016
Quant Method : C:\msdchem\1\METHODS\dftpp2m.M
Quant Title : Semi Volatile GC/MS,zb-5msi30mx .25mmx .25umMon TuThu Jun 09 16:42:34 2016
QLast Update : Thu Jun 09 16:42:34 2016
Response via : Initial Calibration





TIC: 2m85688.D\data.ms

(3) Pentachlorophenol

2.721min (-2.721) 0.00

response 0

Ion	Exp%	Act%
266.00	100	0.00
264.00	62.40	0.00#
268.00	62.70	0.00#
0.00	0.00	0.00

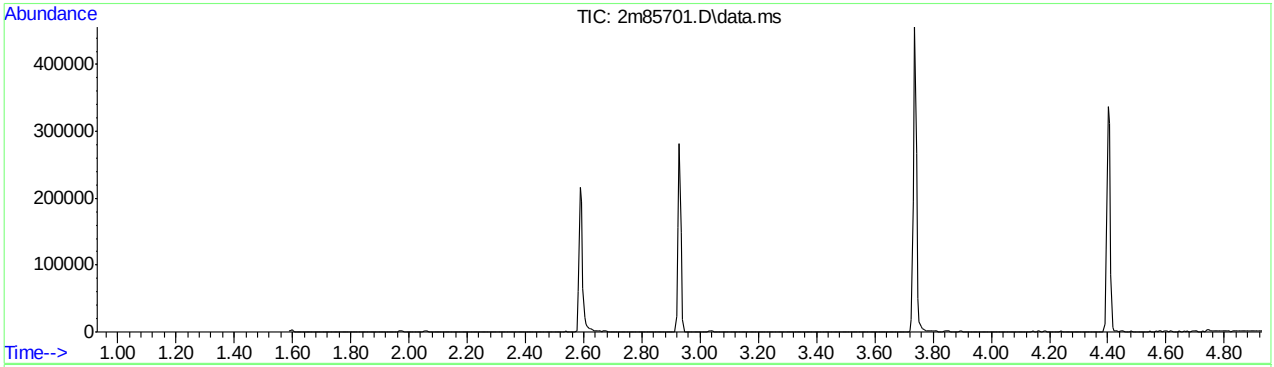
SGS ACCUTEST JC24978

DFTPP

Data Path : C:\msdchem\1\DATA\E2M3791\
Data File : 2m85701.D
Acq On : 20 Jul 2016 9:38 pm
Operator : seanb1
Sample : dftpp
Misc : op95288,e2m3791
ALS Vial : 1 Sample Multiplier: 1

Integration File: rteint.p

Method : C:\msdchem\1\METHODS\dftpp2m.M
Title : Semi Volatile GC/MS,zb-5msi30mx .25mmx .25umMon TuThu Jun 09 16:42:34 2016
Last Update : Thu Jun 09 16:42:34 2016



AutoFind: Scans 251, 252, 253; Background Corrected with Scan 246

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	55.2	11934	PASS
68	69	0.00	2	1.6	161	PASS
69	198	0.00	100	45.8	9906	PASS
70	69	0.00	2	0.3	25	PASS
127	198	40	60	57.1	12351	PASS
197	198	0.00	1	0.3	61	PASS
198	198	100	100	100.0	21624	PASS
199	198	5	9	6.8	1460	PASS
275	198	10	30	23.1	4993	PASS
365	198	1	100	3.1	666	PASS
441	443	0.10	100	71.8	2462	PASS
442	198	40	100	78.7	17010	PASS
443	442	17	23	20.2	3430	PASS

SGS ACCUTEST JC24978

Average of 2.924 to 2.935 min.: 2m85701.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
37.10	25	58.10	27	76.10	598	87.05	100
38.10	162	61.00	120	77.10	12433	88.00	20
39.10	924	62.00	147	78.10	846	91.00	180
40.00	23	63.10	377	79.10	628	92.00	182
49.00	128	64.00	38	80.00	493	93.05	1047
50.10	2999	65.10	223	81.05	779	94.05	93
51.10	11934	68.05	161	82.00	190	95.00	18
52.10	597	69.10	9906	83.00	199	96.00	36
55.05	89	70.00	25	84.05	41	98.05	827
56.00	334	74.05	978	85.00	180	99.00	781
57.00	694	75.10	1661	86.05	170	100.05	47

Average of 2.924 to 2.935 min.: 2m85701.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
101.00	387	112.05	116	127.10	12351	138.05	47
101.80	16	116.00	152	128.05	936	140.00	21
102.95	109	117.10	2346	129.10	4303	141.05	514
104.00	195	118.00	177	130.00	363	141.90	43
105.05	265	120.00	16	130.80	29	142.10	101
106.00	94	122.00	227	131.00	31	143.00	137
107.10	3430	123.05	275	132.05	47	146.00	83
108.00	525	123.95	126	134.05	120	147.00	248
109.10	123	125.00	158	135.00	356	148.05	607
110.10	5851	125.70	18	136.00	155	149.05	119
111.05	864	126.00	28	137.05	194	149.95	45

Average of 2.924 to 2.935 min.: 2m85701.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
151.00	24	161.05	233	175.05	396	185.10	342
151.30	27	161.85	52	176.05	132	186.10	2914
152.10	21	165.00	177	176.70	37	187.10	802
153.05	150	166.05	166	177.00	127	188.00	42
154.00	165	167.05	1084	177.95	55	189.05	170
155.10	299	168.05	590	179.05	790	190.95	55
156.10	558	169.00	108	180.10	521	192.05	217
157.15	89	171.00	25	181.10	249	193.10	257
158.00	105	172.00	97	182.10	30	194.05	60
158.90	31	173.00	118	183.90	19	195.10	29
160.05	138	174.00	199	184.10	53	196.05	646

Average of 2.924 to 2.935 min.: 2m85701.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
197.10	61	209.05	44	223.00	298	236.00	45
198.10	21624	210.05	58	224.10	2773	237.05	53
199.05	1460	211.10	217	225.10	741	238.90	17
200.05	127	212.10	22	226.00	79	240.05	43
201.35	76	215.00	46	227.05	1136	240.90	17
203.05	133	216.05	108	228.05	157	241.10	33
204.10	803	217.05	1247	229.00	224	242.05	133
205.10	1255	218.00	172	230.00	23	243.10	145
206.10	5146	220.20	17	231.05	94	244.10	2282
207.10	652	221.10	1013	234.05	58	245.10	285
208.05	153	221.70	61	235.05	54	246.10	335

Average of 2.924 to 2.935 min.: 2m85701.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
247.05	93	259.10	79	283.05	45	315.90	18
249.05	48	265.05	215	285.10	63	316.05	62
250.90	17	266.10	21	286.00	17	321.00	45
252.10	23	271.10	17	293.00	105	323.05	509

dftpp2m.M Thu Jul 21 11:23:48 2016 Page: 2

253.05	77	272.10	19	296.10	1308	324.05	100
253.80	18	273.05	318	297.05	205	327.05	88
254.20	66	274.05	947	302.00	25	328.20	27
255.10	10866	275.10	4993	303.15	152	333.00	51
256.10	1583	276.05	653	304.10	35	334.10	314
257.00	117	277.05	405	314.05	77	335.05	64
258.05	575	278.05	85	315.05	155	341.10	72

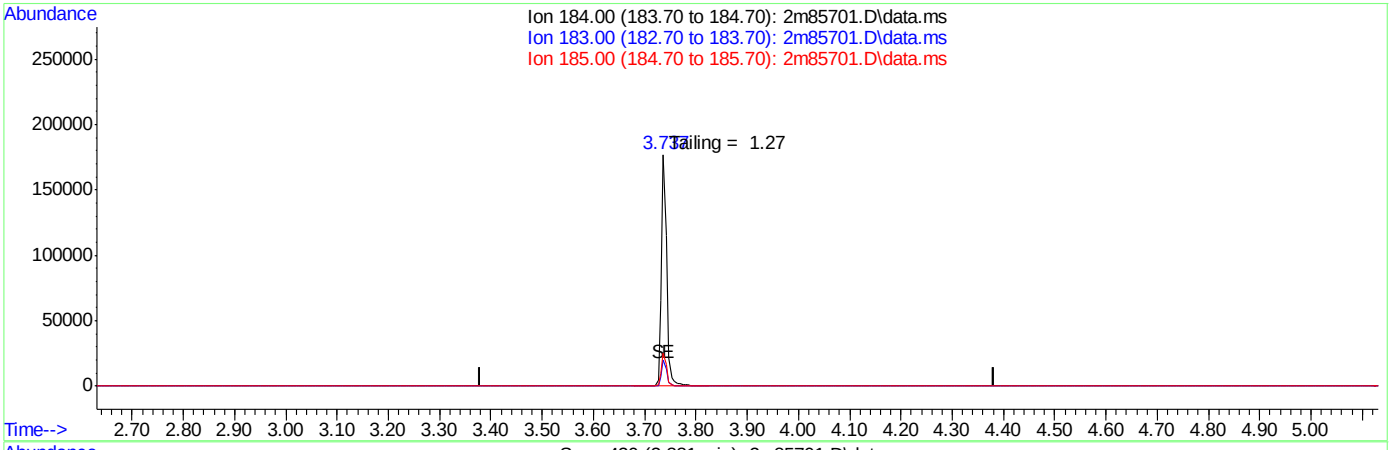
Average of 2.924 to 2.935 min.: 2m85701.D\data.ms
dftpp
Modified:subtracted

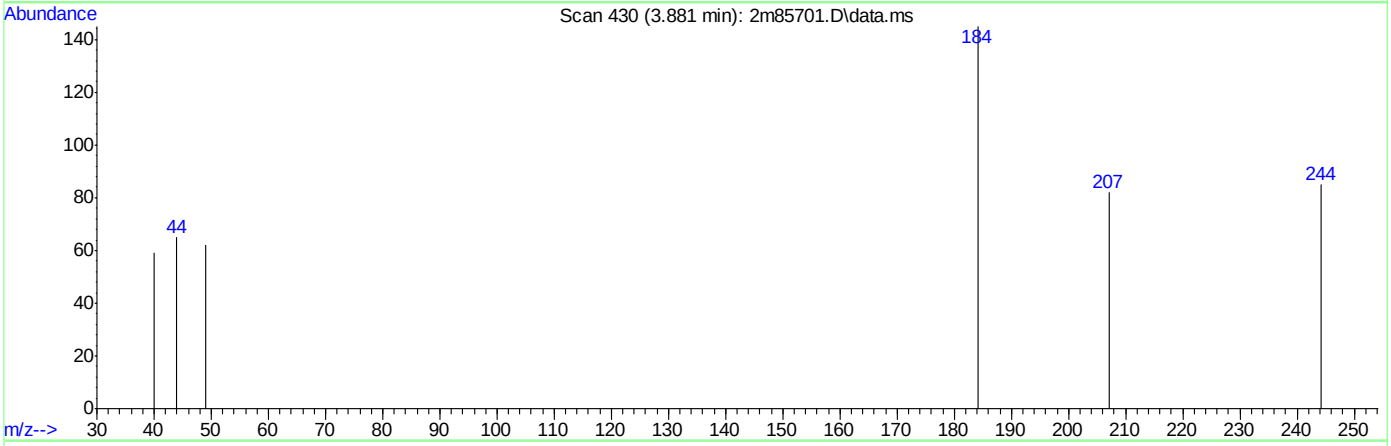
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
346.05	95	402.00	108				
352.05	162	403.10	151				
353.05	128	404.15	50				
354.00	146	421.10	138				
365.05	666	422.15	130				
366.05	132	423.10	1020				
371.10	46	424.05	238				
372.10	307	441.10	2462				
373.10	72	442.10	17010				
383.00	73	443.10	3430				
390.00	23	444.10	277				

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E2M3791\
Data File : 2m85701.D
Acq On : 20 Jul 2016 9:38 pm
Operator : seanb1
Sample : dftpp
Misc : op95288,e2m3791
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 20 21:44:53 2016
Quant Method : C:\msdchem\1\METHODS\dftpp2m.M
Quant Title : Semi Volatile GC/MS,zb-5msi30mx .25mmx .25umMon TuThu Jun 09 16:42:34 2016
QLast Update : Thu Jun 09 16:42:34 2016
Response via : Initial Calibration





TIC: 2m85701.D\data.ms

(1) Benzidine

3.881min (-3.881) 0.00

response 0

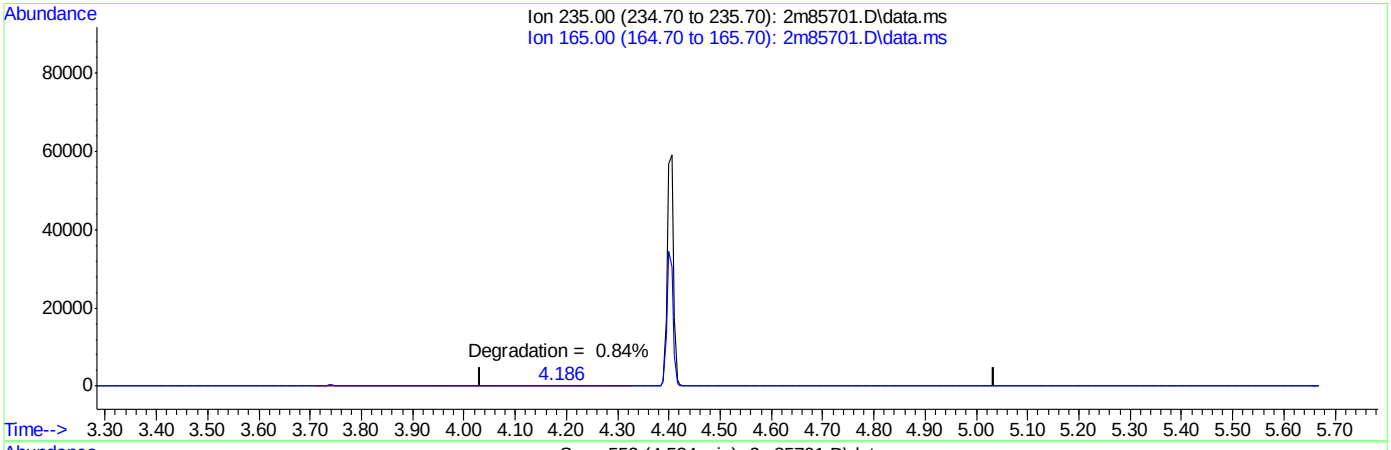
Ion	Exp%	Act%
184.00	100	0.00
183.00	11.70	0.00
185.00	13.90	0.00
0.00	0.00	0.00

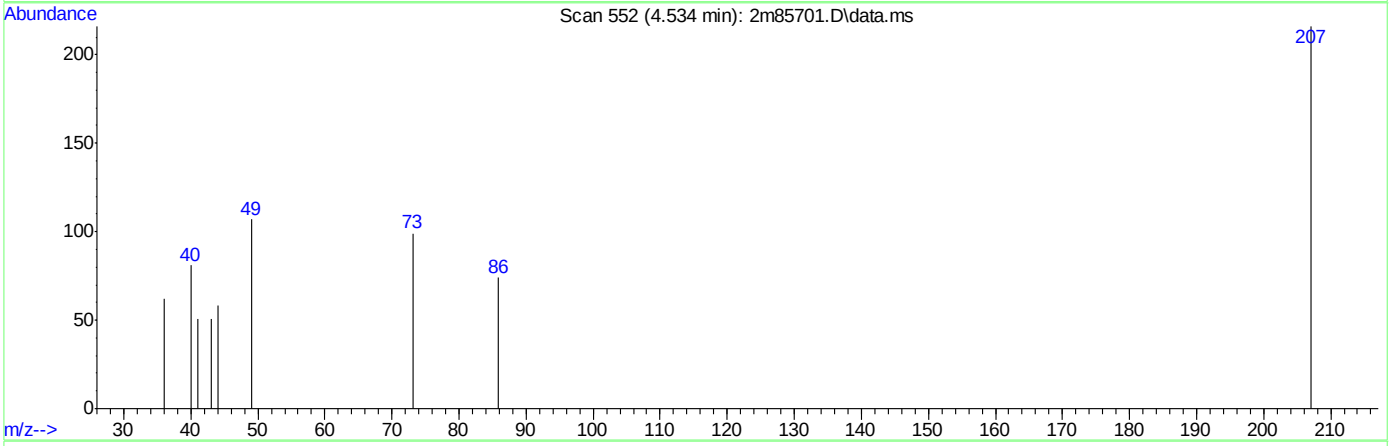
SGS ACCUTEST JC24978

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E2M3791\
Data File : 2m85701.D
Acq On : 20 Jul 2016 9:38 pm
Operator : seanb1
Sample : dftpp
Misc : op95288,e2m3791
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 20 21:44:53 2016
Quant Method : C:\msdchem\1\METHODS\dftpp2m.M
Quant Title : Semi Volatile GC/MS,zb-5msi30mx .25mmx .25umMon TuThu Jun 09 16:42:34 2016
QLast Update : Thu Jun 09 16:42:34 2016
Response via : Initial Calibration





TIC: 2m85701.D\data.ms

(2) ddt

4.534min (-4.534) 0.00

response 0

Ion	Exp%	Act%
235.00	100	0.00
165.00	67.20	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

7.5.3.2

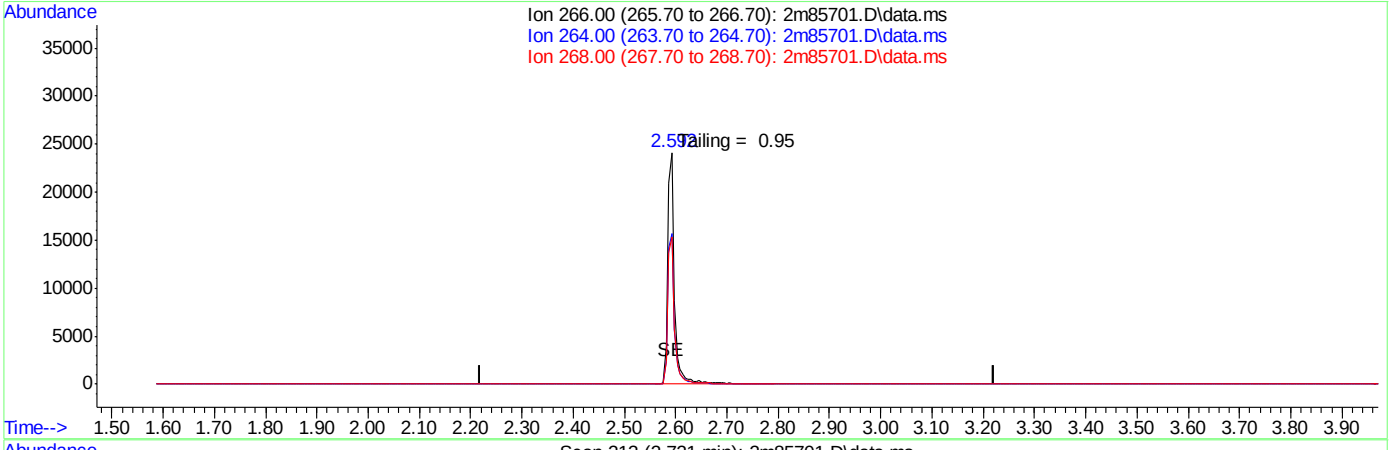
7

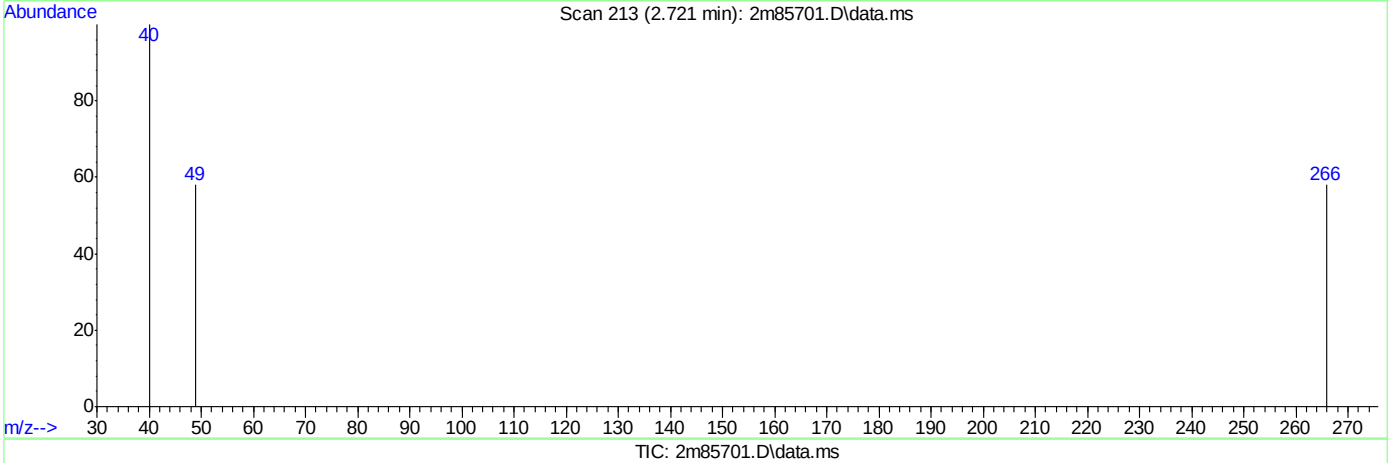
SGS ACCUTEST JC24978

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\DATA\E2M3791\
Data File : 2m85701.D
Acq On    : 20 Jul 2016   9:38 pm
Operator  : seanb1
Sample    : dftpp
Misc      : op95288,e2m3791
ALS Vial  : 1   Sample Multiplier: 1

Quant Time: Jul 20 21:44:53 2016
Quant Method : C:\msdchem\1\METHODS\dftpp2m.M
Quant Title  : Semi Volatile GC/MS,zb-5msi30mx .25mmx .25umMon TuThu Jun 09 16:42:34 2016
QLast Update : Thu Jun 09 16:42:34 2016
Response via : Initial Calibration
```





TIC: 2m85701.D\data.ms

(3) Pentachlorophenol

2.721min (-2.721) 0.00

response 0

Ion	Exp%	Act%
266.00	100	0.00
264.00	62.40	0.00#
268.00	62.70	0.00#
0.00	0.00	0.00

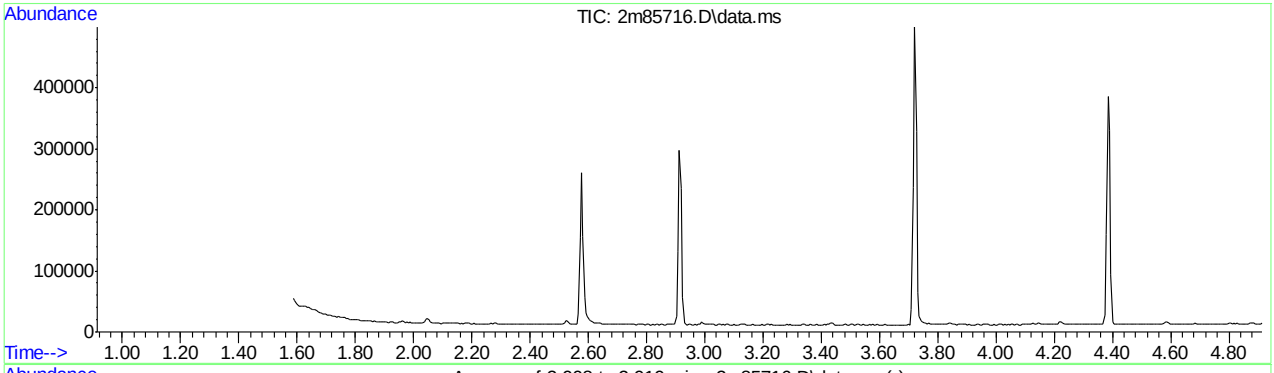
SGS ACCUTEST JC24978

DFTPP

Data Path : C:\msdchem\1\DATA\E2M3792\
Data File : 2m85716.D
Acq On : 21 Jul 2016 2:49 pm
Operator : ashleyn
Sample : dftpp
Misc : op95288,e2m3792
ALS Vial : 1 Sample Multiplier: 1

Integration File: rteint.p

Method : C:\msdchem\1\METHODS\dftpp2m.M
Title : Semi Volatile GC/MS,zb-5msi30mx .25mmx .25umMon TuThu Jun 09 16:42:34 2016
Last Update : Thu Jun 09 16:42:34 2016



AutoFind: Scans 248, 249, 250; Background Corrected with Scan 244

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	55.4	13060	PASS
68	69	0.00	2	1.4	148	PASS
69	198	0.00	100	45.8	10780	PASS
70	69	0.00	2	0.5	54	PASS
127	198	40	60	57.5	13543	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	23555	PASS
199	198	5	9	6.8	1592	PASS
275	198	10	30	22.3	5241	PASS
365	198	1	100	3.1	727	PASS
441	443	0.10	100	71.1	2445	PASS
442	198	40	100	71.0	16716	PASS
443	442	17	23	20.6	3438	PASS

SGS ACCUTEST JC24978

Average of 2.908 to 2.919 min.: 2m85716.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.00	19	53.05	10	66.10	16	79.05	702
37.00	6	55.05	19	66.95	35	80.00	601
37.95	156	56.05	327	68.05	148	81.00	818
39.10	1034	57.05	816	69.10	10780	82.00	222
40.05	34	58.05	42	70.00	54	83.00	244
41.00	46	60.00	44	73.10	135	85.00	142
44.05	27	61.05	150	74.05	1015	86.00	3
45.00	50	62.15	146	75.05	1711	87.00	137
50.05	3297	63.05	447	76.05	605	87.95	6
51.05	13060	64.10	60	77.10	13518	91.00	197
52.10	654	65.05	279	78.10	1020	92.00	190

Average of 2.908 to 2.919 min.: 2m85716.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
93.05	1225	106.05	89	120.00	25	132.80	21
94.05	95	107.10	3610	121.95	208	134.05	106
96.10	65	108.00	549	123.00	296	135.00	411
97.00	74	109.05	77	124.00	148	136.00	137
98.05	910	110.10	6859	125.05	156	137.10	202
99.10	715	111.05	1045	127.10	13543	139.10	18
100.00	56	112.05	109	128.05	1043	140.05	65
101.05	493	113.05	47	129.05	4886	141.00	513
102.95	158	116.00	158	130.05	436	142.00	223
104.00	251	117.10	2447	130.95	80	142.95	120
105.00	277	117.95	213	131.90	32	144.05	41

Average of 2.908 to 2.919 min.: 2m85716.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
146.00	107	155.05	301	166.05	173	177.05	218
147.05	278	156.05	481	167.05	1169	178.00	68
148.00	639	156.90	28	168.10	637	179.05	801
149.05	137	157.05	59	168.95	69	180.05	562
149.90	19	157.95	101	170.20	31	181.05	268
151.05	82	159.05	58	171.00	26	182.05	48
151.30	28	160.05	188	172.00	87	183.10	21
151.70	20	161.05	260	173.10	103	184.10	63
152.10	21	162.00	81	174.05	234	185.00	400
153.00	176	164.00	20	175.05	450	186.10	3301
154.05	144	165.00	189	176.05	119	187.10	905

Average of 2.908 to 2.919 min.: 2m85716.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
188.05	81	199.00	1592	210.00	18	222.00	155
189.05	183	200.05	133	210.15	74	223.05	314
190.00	21	201.50	131	211.05	210	224.10	2943
190.95	81	203.05	161	212.00	27	225.05	704
192.00	267	204.05	840	214.95	37	226.15	54
193.10	270	205.10	1330	216.05	99	227.10	1082
194.05	54	206.10	5555	217.10	1369	228.00	164
194.70	20	207.10	761	218.00	171	229.05	233
195.10	37	207.90	33	220.20	30	230.00	16
196.10	630	208.10	131	221.05	1214	231.05	107
198.10	23555	209.10	20	221.80	21	234.10	58

Average of 2.908 to 2.919 min.: 2m85716.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
235.00	77	249.10	62	264.00	18	284.10	18
236.10	45	252.00	18	265.10	259	285.00	81
237.10	70	252.20	22	265.95	37	292.10	21
239.00	37	253.00	60	272.10	19	293.05	94

dftpp2m.M Thu Jul 21 15:48:44 2016 Page: 2

241.05	56	253.40	34	273.10	359	294.00	19
242.00	182	254.10	97	274.10	972	295.10	19
243.05	166	255.10	11552	275.10	5241	296.10	1528
244.10	2338	256.10	1716	276.10	683	297.05	179
245.10	380	257.05	112	277.05	383	303.10	157
246.10	363	258.05	621	277.95	62	304.10	55
247.00	70	259.05	88	283.00	26	313.90	24

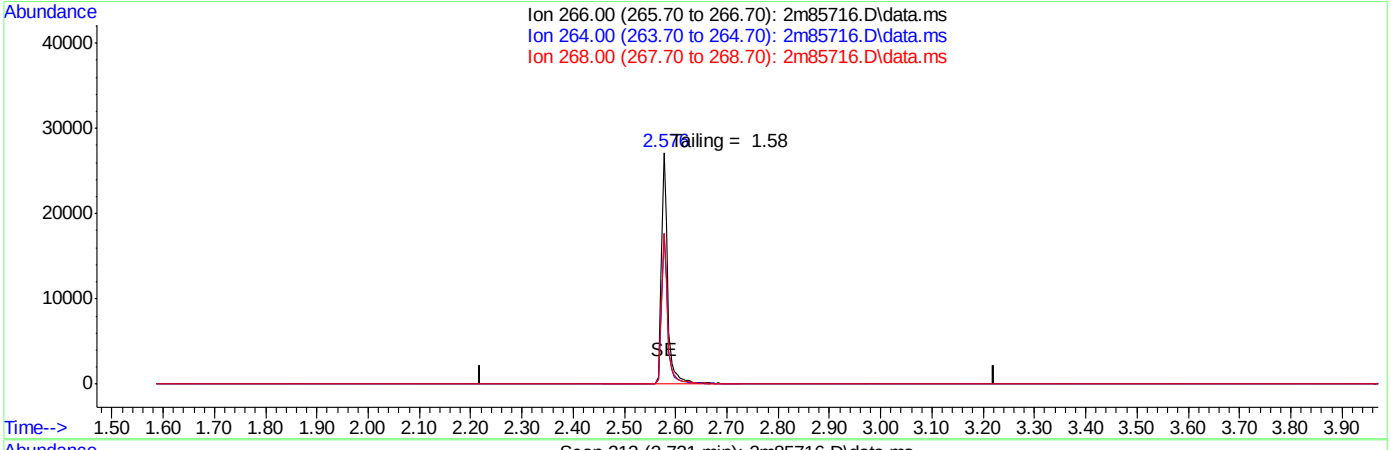
Average of 2.908 to 2.919 min.: 2m85716.D\data.ms
dftpp
Modified:subtracted

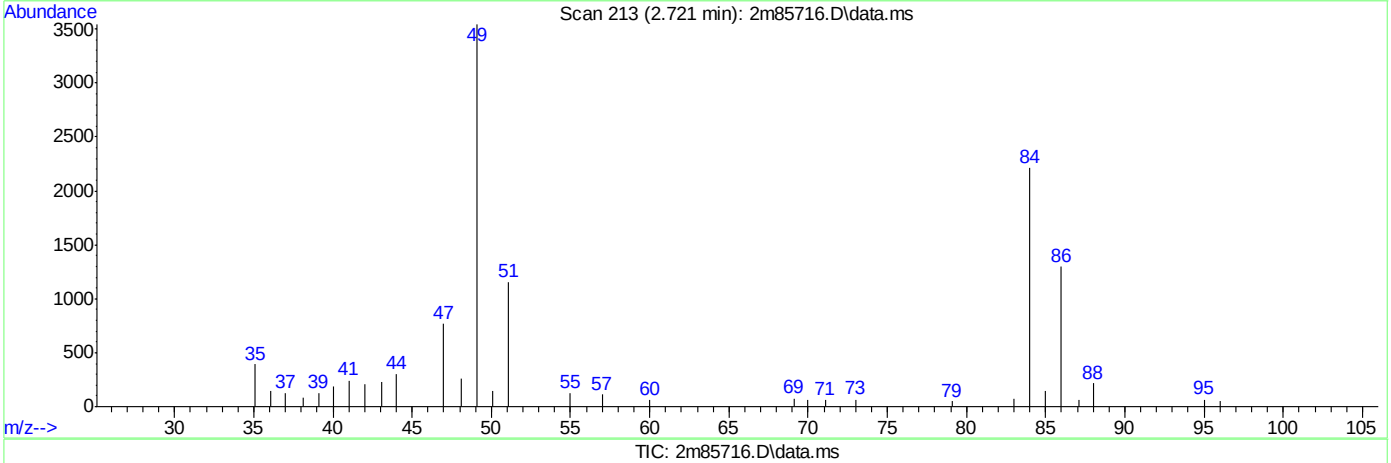
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
314.10	52	328.20	21	365.10	727	404.00	34
315.05	157	332.00	20	366.05	81	404.20	31
316.10	75	333.10	27	371.10	16	421.05	159
321.00	19	334.05	356	371.90	28	422.05	109
321.80	24	334.90	25	372.10	266	423.10	1074
322.20	17	335.10	33	373.10	61	424.05	189
322.90	67	341.00	51	382.95	56	434.10	19
323.10	438	346.00	98	384.10	17	441.10	2445
324.05	77	352.05	201	390.05	47	442.10	16716
327.00	97	352.95	119	402.05	119	443.10	3438
328.00	21	354.00	167	403.05	188	444.05	299

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E2M3792\
Data File : 2m85716.D
Acq On : 21 Jul 2016 2:49 pm
Operator : ashleyn
Sample : dftpp
Misc : op95288,e2m3792
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 21 15:00:16 2016
Quant Method : C:\msdchem\1\METHODS\dftpp2m.M
Quant Title : Semi Volatile GC/MS,zb-5msi30mx .25mmx .25umMon TuThu Jun 09 16:42:34 2016
QLast Update : Thu Jun 09 16:42:34 2016
Response via : Initial Calibration





TIC: 2m85716.D\data.ms

(3) Pentachlorophenol

2.721min (-2.721) 0.00

response 0

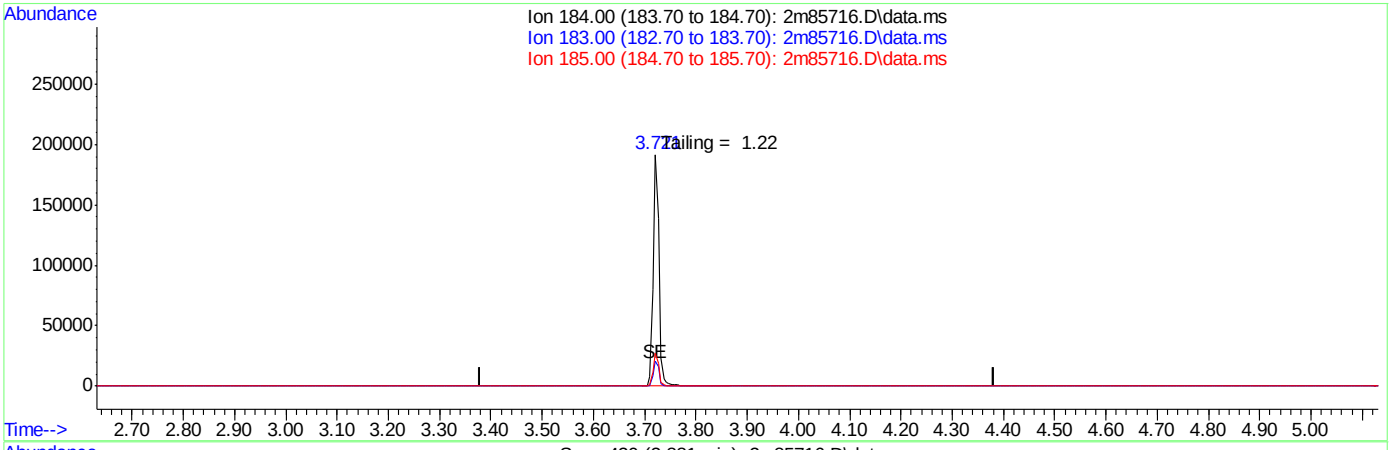
Ion	Exp%	Act%
266.00	100	0.00
264.00	62.40	0.00#
268.00	62.70	0.00#
0.00	0.00	0.00

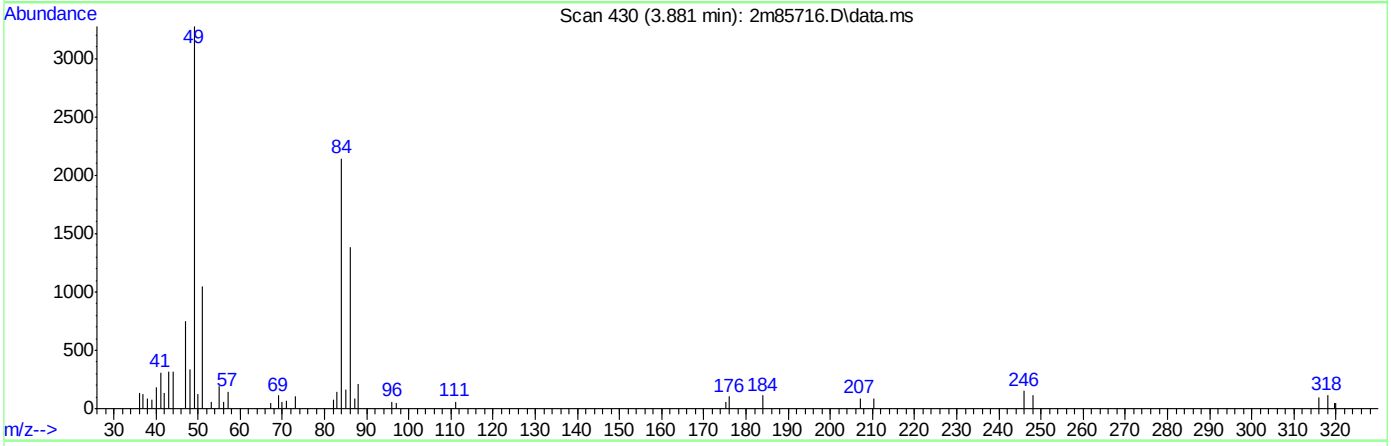
SGS ACCUTEST JC24978

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E2M3792\
Data File : 2m85716.D
Acq On : 21 Jul 2016 2:49 pm
Operator : ashleyn
Sample : dftpp
Misc : op95288,e2m3792
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 21 15:00:16 2016
Quant Method : C:\msdchem\1\METHODS\dftpp2m.M
Quant Title : Semi Volatile GC/MS,zb-5msi30mx .25mmx .25umMon TuThu Jun 09 16:42:34 2016
QLast Update : Thu Jun 09 16:42:34 2016
Response via : Initial Calibration





TIC: 2m85716.D\data.ms

(1) Benzidine

3.881min (-3.881) 0.00

response 0

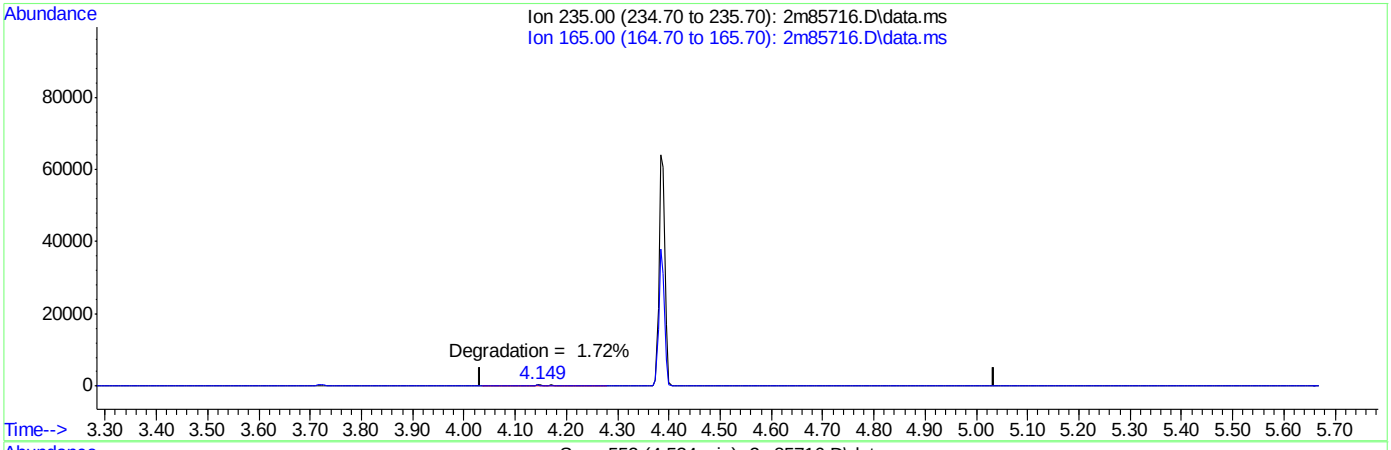
Ion	Exp%	Act%
184.00	100	0.00
183.00	11.70	0.00
185.00	13.90	0.00
0.00	0.00	0.00

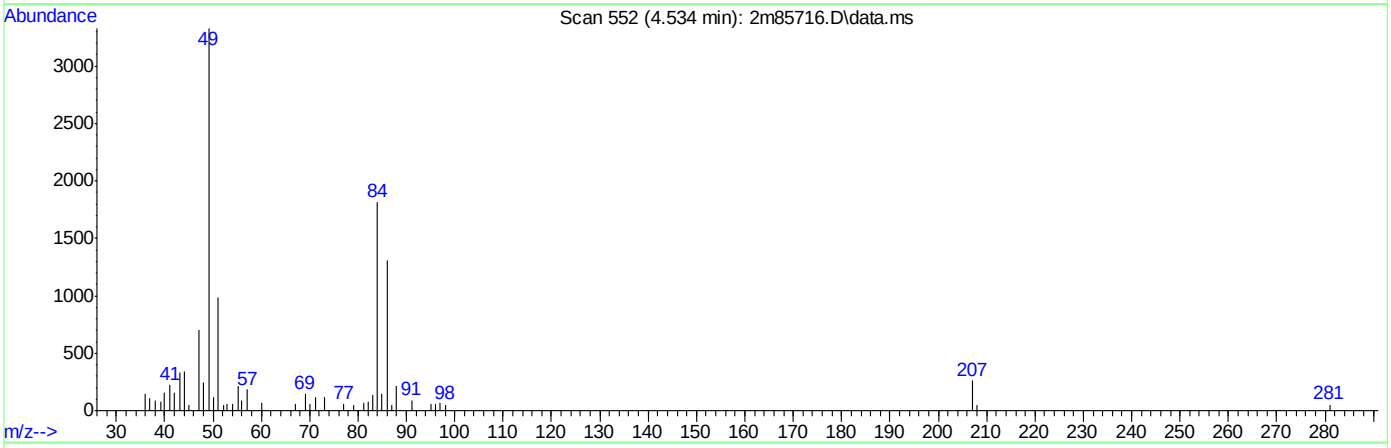
SGS ACCUTEST JC24978

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\DATA\E2M3792\
Data File : 2m85716.D
Acq On    : 21 Jul 2016   2:49 pm
Operator  : ashleyn
Sample    : dftpp
Misc      : op95288,e2m3792
ALS Vial  : 1   Sample Multiplier: 1

Quant Time: Jul 21 15:00:16 2016
Quant Method : C:\msdchem\1\METHODS\dftpp2m.M
Quant Title  : Semi Volatile GC/MS,zb-5msi30mx .25mmx .25umMon TuThu Jun 09 16:42:34 2016
QLast Update : Thu Jun 09 16:42:34 2016
Response via : Initial Calibration
```





TIC: 2m85716.D\data.ms

(2) ddt

4.534min (-4.534) 0.00

response 0

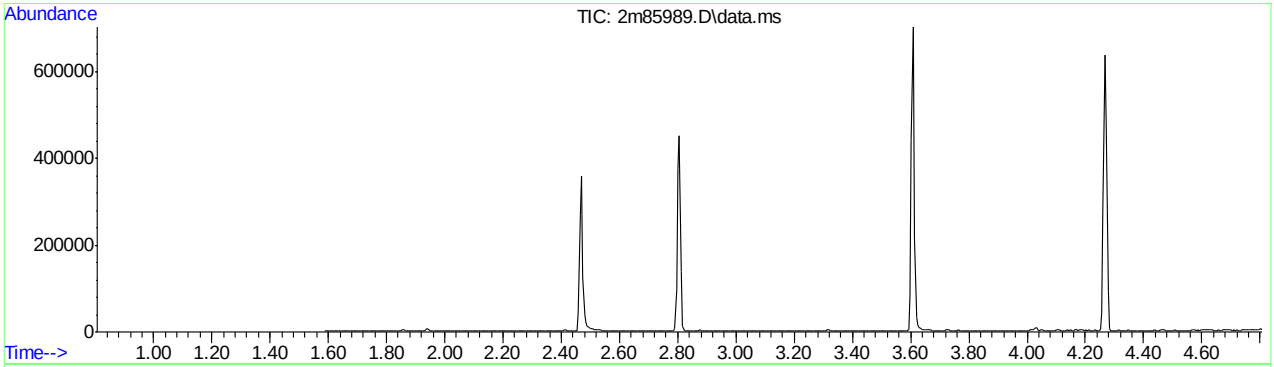
Ion	Exp%	Act%
235.00	100	0.00
165.00	67.20	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

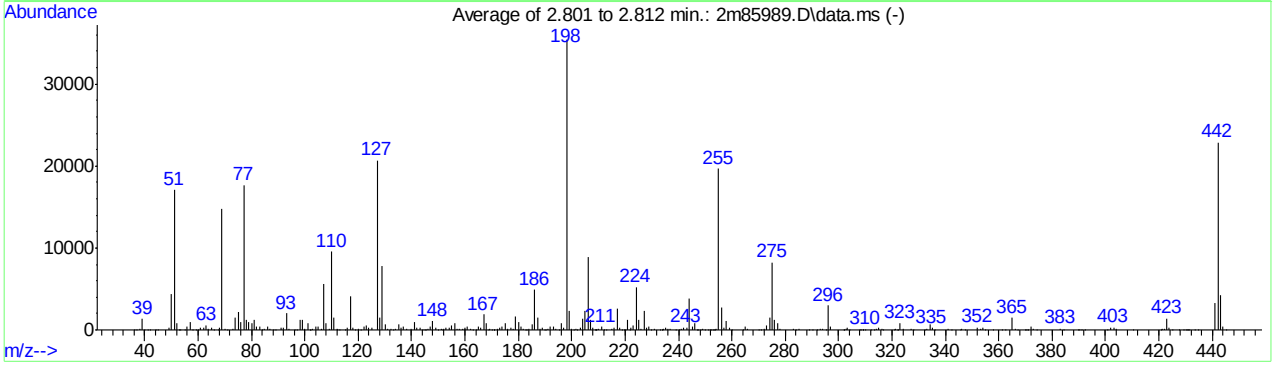
DFTPP

Data Path : C:\msdchem\1\DATA\E2M3807\
Data File : 2m85989.D
Acq On : 31 Jul 2016 12:04 pm
Operator : kristis
Sample : dftpp
Misc : op95842,e2m3807,1000,,,1,1
ALS Vial : 1 Sample Multiplier: 1

Integration File: rteint.p

Method : C:\msdchem\1\METHODS\dftpp2m.M
Title : Semi Volatile GC/MS,zb-5msi30mx .25mmx .25umMon TuThu Jun 09 16:42:34 2016
Last Update : Thu Jun 09 16:42:34 2016





AutoFind: Scans 228, 229, 230; Background Corrected with Scan 223

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	48.2	17062	PASS
68	69	0.00	2	1.8	269	PASS
69	198	0.00	100	41.5	14712	PASS
70	69	0.00	2	0.6	93	PASS
127	198	40	60	58.5	20725	PASS
197	198	0.00	1	0.9	328	PASS
198	198	100	100	100.0	35434	PASS
199	198	5	9	6.7	2357	PASS
275	198	10	30	23.3	8240	PASS
365	198	1	100	4.1	1448	PASS
441	443	0.10	100	75.2	3236	PASS
442	198	40	100	64.7	22910	PASS
443	442	17	23	18.8	4301	PASS

SGS ACCUTEST JC24978

Average of 2.801 to 2.812 min.: 2m85989.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
35.90	42	51.05	17062	62.00	244	74.00	1558
37.00	17	52.10	872	63.10	595	75.05	2210
38.00	182	53.00	35	64.00	110	76.10	948
39.05	1323	53.20	19	65.05	296	77.10	17683
40.05	17	55.00	34	66.10	22	78.10	1182
41.00	24	56.00	474	67.80	42	79.00	1021
42.00	20	57.00	1000	68.05	269	80.00	826
44.05	28	58.00	33	69.05	14712	81.05	1245
44.90	42	59.10	22	70.00	93	82.05	350
49.00	241	59.90	17	71.00	23	83.00	348
50.10	4415	61.00	213	73.10	131	83.95	53

Average of 2.801 to 2.812 min.: 2m85989.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
85.00	206	98.05	1283	108.05	881	119.00	72
85.95	383	99.00	1182	109.10	189	120.10	76
86.95	150	100.05	142	110.05	9526	121.00	19
88.00	16	101.00	847	111.00	1497	122.00	393
89.05	38	102.00	30	111.95	154	123.05	580
91.00	323	102.20	28	112.20	22	124.05	266
92.00	248	103.05	181	112.95	65	125.05	252
93.10	2040	104.00	407	115.20	43	127.10	20725
94.05	143	105.00	442	116.00	340	128.10	1572
96.00	53	106.05	126	117.05	4103	129.10	7854
96.90	21	107.10	5574	118.00	330	130.05	744

Average of 2.801 to 2.812 min.: 2m85989.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
130.95	149	143.05	232	152.00	74	162.00	116
132.10	83	144.00	33	152.95	283	163.00	19
133.10	17	144.90	37	154.05	211	164.10	33
134.00	206	145.20	36	155.05	598	165.00	376
135.00	697	146.05	107	156.05	830	166.00	338
136.00	300	147.00	463	157.15	190	167.10	1888
137.00	403	148.00	1038	157.90	121	168.05	826
138.00	108	149.00	245	159.00	136	168.80	19
140.00	109	149.95	61	159.90	143	169.05	138
141.05	955	151.00	138	160.10	210	170.05	69
142.00	298	151.50	26	161.00	405	170.90	58

Average of 2.801 to 2.812 min.: 2m85989.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
171.10	30	182.00	82	191.00	154	201.45	127
172.00	156	182.80	38	191.95	432	202.00	19
173.00	291	183.10	24	193.05	457	203.05	220
174.00	349	184.00	107	194.10	126	204.10	1412
175.10	793	185.00	726	195.20	41	205.10	2333
176.05	192	186.10	4925	196.05	839	206.10	8911
177.05	273	187.10	1542	196.95	328	207.05	1198
178.00	124	187.95	125	198.00	35434	208.00	282
179.00	1598	189.00	344	199.00	2357	208.80	41
180.05	995	189.90	26	200.00	205	209.00	46
181.10	407	190.20	22	200.90	33	209.20	22

Average of 2.801 to 2.812 min.: 2m85989.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
210.05	183	221.05	1249	231.00	180	242.00	320
211.05	386	221.60	50	232.90	17	243.00	338
212.00	36	222.00	210	233.70	20	244.10	3806
212.90	17	223.00	522	234.00	34	245.10	459

dftpp2m.M Sun Jul 31 15:53:29 2016 Page: 2

215.05	97	224.10	5232	234.20	81	246.05	828
216.05	227	225.10	1233	235.05	210	246.95	62
217.05	2561	226.05	146	236.00	76	247.20	56
218.00	295	227.10	2365	237.05	104	248.10	34
218.90	18	228.05	304	239.05	57	248.95	130
219.60	21	229.05	474	240.05	49	249.90	17
220.10	29	229.90	66	241.00	141	251.20	40

Average of 2.801 to 2.812 min.: 2m85989.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
251.80	39	260.00	21	277.10	791	296.10	2947
252.10	32	264.10	27	278.00	139	296.95	443
252.90	50	265.05	475	283.05	118	301.80	20
253.10	54	265.95	115	284.05	56	302.00	28
253.80	19	270.10	20	285.10	162	302.90	109
254.05	123	271.00	22	289.10	48	303.10	221
255.10	19642	272.05	92	290.00	20	303.95	60
256.10	2781	273.00	608	291.90	24	308.00	36
257.05	226	274.05	1489	292.95	200	308.20	31
258.00	1159	275.10	8240	294.00	90	308.90	17
259.05	240	276.10	1203	295.05	65	309.10	16

Average of 2.801 to 2.812 min.: 2m85989.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
309.95	50	323.10	863	345.80	47	366.00	155
312.00	17	324.00	165	346.00	101	366.85	39
313.10	19	327.00	163	347.10	26	369.80	18
314.05	153	328.00	50	352.05	321	370.10	17
315.05	325	332.10	18	353.00	178	370.80	19
316.05	146	332.90	95	354.05	250	371.00	29
316.80	22	334.10	662	354.90	22	372.10	470
320.80	16	335.05	211	358.00	17	373.00	123
321.05	105	336.10	18	361.10	26	374.10	22
322.00	70	340.95	131	362.40	17	383.05	165
322.30	16	342.10	29	365.05	1448	384.20	32

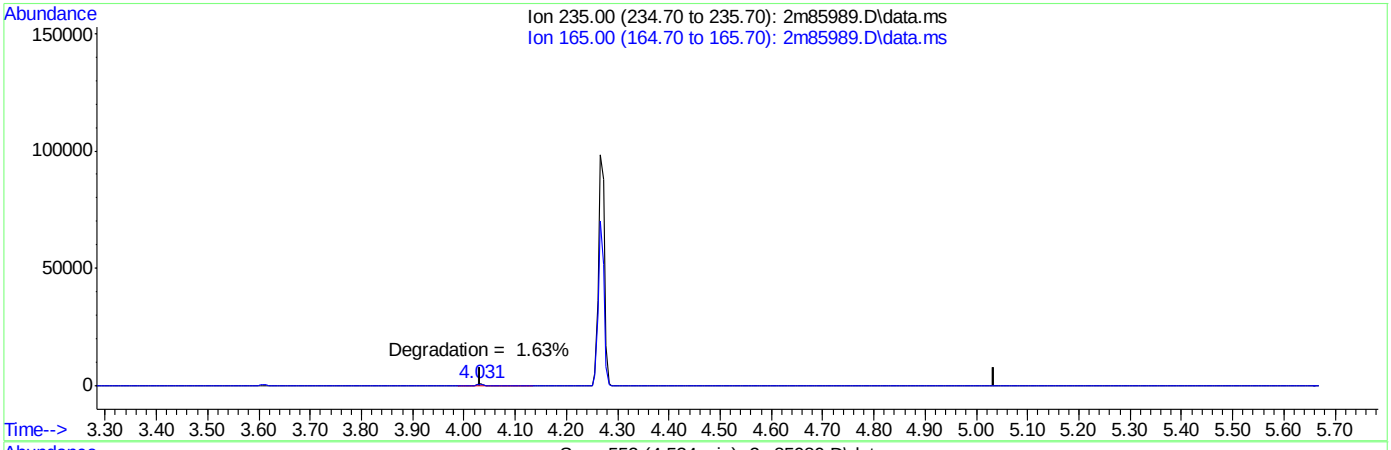
Average of 2.801 to 2.812 min.: 2m85989.D\data.ms
dftpp
Modified:subtracted

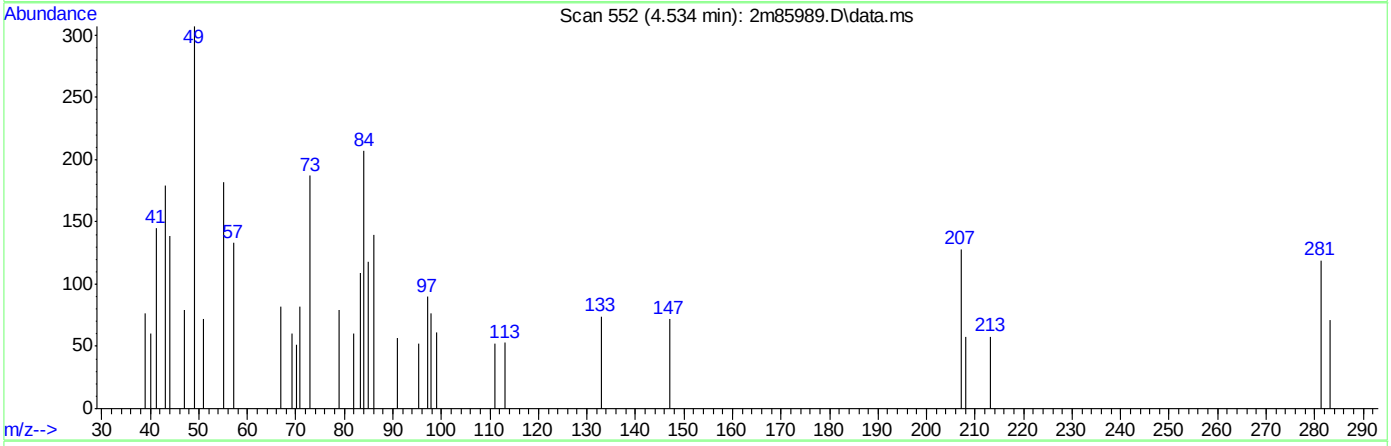
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
389.80	24	422.05	168	434.70	17		
390.10	17	423.05	1424	441.10	3236		
391.10	19	423.90	237	442.10	22910		
392.20	24	425.00	34	443.10	4301		
400.80	21	427.70	21	444.05	409		
402.00	224	429.30	36	445.00	23		
403.00	275	430.20	33				
404.00	78	430.60	17				
410.10	20	430.80	24				
420.90	55	431.45	49				
421.10	142	433.20	21				

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E2M3807\
Data File : 2m85989.D
Acq On : 31 Jul 2016 12:04 pm
Operator : kristis
Sample : dftpp
Misc : op95842,e2m3807,1000,,,1,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 31 12:11:00 2016
Quant Method : C:\msdchem\1\METHODS\dftpp2m.M
Quant Title : Semi Volatile GC/MS,zb-5msi30mx .25mmx .25umMon TuThu Jun 09 16:42:34 2016
QLast Update : Thu Jun 09 16:42:34 2016
Response via : Initial Calibration





TIC: 2m85989.D\data.ms

(2) ddt

4.534min (-4.534) 0.00

response 0

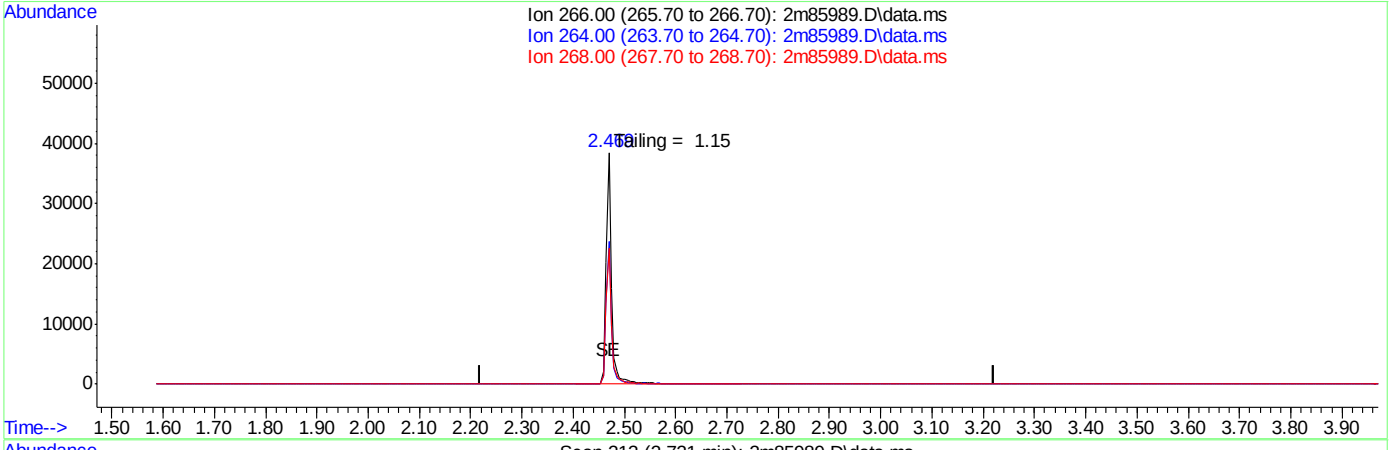
Ion	Exp%	Act%
235.00	100	0.00
165.00	67.20	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

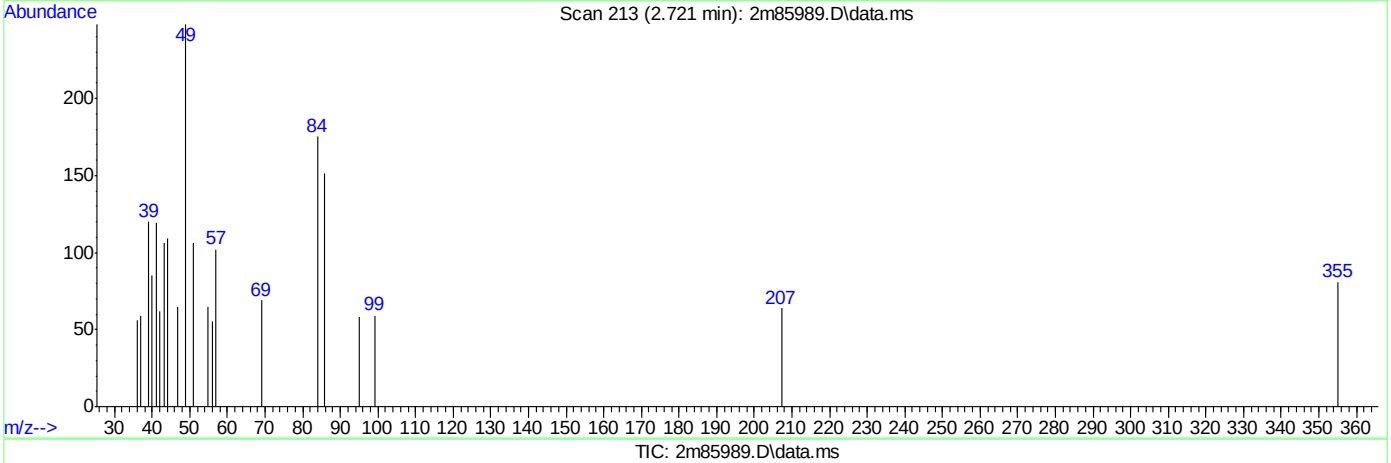
SGS ACCUTEST JC24978

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E2M3807\
Data File : 2m85989.D
Acq On : 31 Jul 2016 12:04 pm
Operator : kristis
Sample : dftpp
Misc : op95842,e2m3807,1000,,,1,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 31 12:11:00 2016
Quant Method : C:\msdchem\1\METHODS\dftpp2m.M
Quant Title : Semi Volatile GC/MS,zb-5msi30mx .25mmx .25umMon TuThu Jun 09 16:42:34 2016
QLast Update : Thu Jun 09 16:42:34 2016
Response via : Initial Calibration





TIC: 2m85989.D\data.ms

(3) Pentachlorophenol

2.721min (-2.721) 0.00

response 0

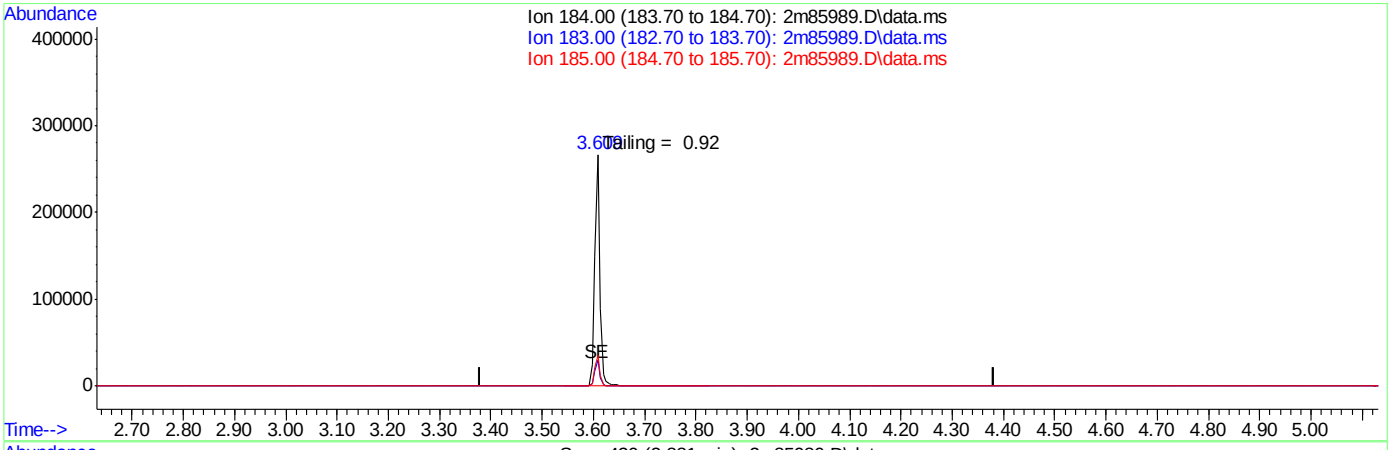
Ion	Exp%	Act%
266.00	100	0.00
264.00	62.40	0.00#
268.00	62.70	0.00#
0.00	0.00	0.00

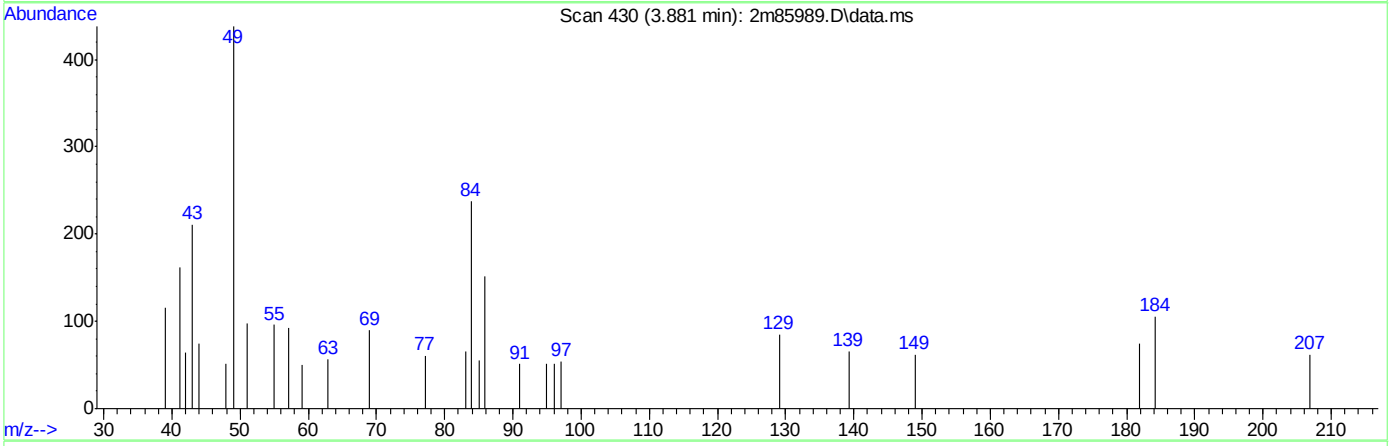
SGS ACCUTEST JC24978

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E2M3807\
Data File : 2m85989.D
Acq On : 31 Jul 2016 12:04 pm
Operator : kristis
Sample : dftpp
Misc : op95842,e2m3807,1000,,,1,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 31 12:11:00 2016
Quant Method : C:\msdchem\1\METHODS\dftpp2m.M
Quant Title : Semi Volatile GC/MS,zb-5msi30mx .25mmx .25umMon TuThu Jun 09 16:42:34 2016
QLast Update : Thu Jun 09 16:42:34 2016
Response via : Initial Calibration





TIC: 2m85989.D\data.ms

(1) Benzidine

3.881min (-3.881) 0.00

response 0

Ion	Exp%	Act%
184.00	100	0.00
183.00	11.70	0.00
185.00	13.90	0.00
0.00	0.00	0.00

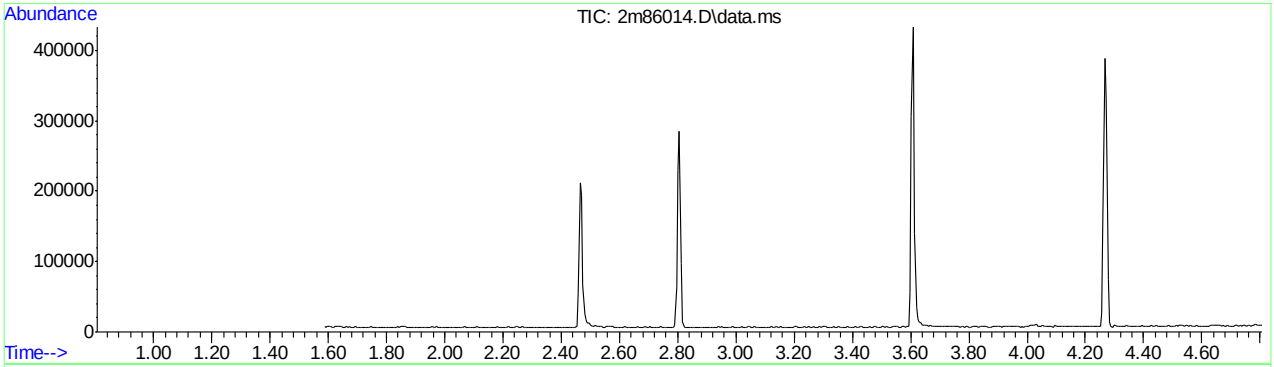
SGS ACCUTEST JC24978

DFTPP

Data Path : C:\msdchem\1\DATA\E2M3808\
Data File : 2m86014.D
Acq On : 1 Aug 2016 9:57 am
Operator : ashleyn
Sample : dftpp
Misc : op95939,e2m3808
ALS Vial : 1 Sample Multiplier: 1

Integration File: rteint.p

Method : C:\msdchem\1\METHODS\dftpp2m.M
Title : Semi Volatile GC/MS,zb-5msi30mx .25mmx .25umMon TuThu Jun 09 16:42:34 2016
Last Update : Thu Jun 09 16:42:34 2016



AutoFind: Scans 228, 229, 230; Background Corrected with Scan 223

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	50.1	11044	PASS
68	69	0.00	2	1.6	141	PASS
69	198	0.00	100	41.1	9055	PASS
70	69	0.00	2	1.0	87	PASS
127	198	40	60	56.1	12352	PASS
197	198	0.00	1	0.4	82	PASS
198	198	100	100	100.0	22022	PASS
199	198	5	9	6.6	1443	PASS
275	198	10	30	22.7	4994	PASS
365	198	1	100	4.2	923	PASS
441	443	0.10	100	87.9	2204	PASS
442	198	40	100	61.3	13499	PASS
443	442	17	23	18.6	2508	PASS

Average of 2.801 to 2.812 min.: 2m86014.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
35.10	356	51.05	11044	64.05	56	75.00	1532
36.05	20	52.10	542	65.05	168	76.10	549
37.00	34	54.10	18	66.00	17	77.10	11031
38.10	183	55.00	45	67.05	78	78.10	671
39.10	952	56.00	210	68.00	141	79.00	665
40.00	35	57.05	784	69.05	9055	80.00	529
41.05	107	58.10	43	70.00	87	81.05	936
42.15	69	60.00	22	71.00	26	82.00	244
44.10	82	61.00	139	71.80	26	83.00	211
48.00	59	62.00	147	73.00	128	85.00	187
50.05	2804	63.10	378	74.10	961	86.00	234

Average of 2.801 to 2.812 min.: 2m86014.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
86.95	95	100.00	31	111.05	903	124.00	175
91.05	240	101.00	416	112.10	88	125.00	154
92.05	201	102.95	166	112.80	22	126.00	18
93.00	1273	104.00	254	115.00	18	127.10	12352
94.05	53	104.90	211	116.00	242	128.00	996
95.00	24	105.95	66	117.10	2587	129.00	4921
95.80	21	106.20	35	118.05	170	130.00	434
96.00	69	107.05	3616	118.80	36	131.00	71
97.05	43	108.05	508	120.10	24	133.90	68
98.05	961	108.95	112	122.05	190	134.10	47
99.00	725	110.00	5966	123.00	347	134.95	412

Average of 2.801 to 2.812 min.: 2m86014.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
136.00	156	148.95	117	159.00	84	169.05	100
137.00	185	150.10	36	160.00	218	171.00	74
138.15	60	151.10	23	161.05	282	171.90	105
140.10	23	151.30	31	162.00	104	173.05	136
141.00	561	151.85	39	163.00	23	174.00	248
141.95	223	153.00	149	164.30	16	175.05	495
143.00	155	154.00	214	164.90	230	175.95	88
144.20	19	155.10	347	165.10	27	177.00	207
145.95	84	156.05	461	166.00	214	178.10	56
147.00	337	157.05	79	167.00	1137	179.00	773
148.00	623	158.05	61	168.00	555	180.00	659

Average of 2.801 to 2.812 min.: 2m86014.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
181.05	288	191.05	86	200.00	131	209.15	54
181.95	69	191.80	30	200.70	21	209.95	82
182.90	18	192.05	229	201.20	42	210.20	25
184.05	63	193.05	396	201.60	48	211.10	203
185.10	424	194.00	100	201.90	18	211.80	18
186.10	3413	195.20	19	202.95	156	215.00	47
187.05	875	196.05	522	204.05	884	216.10	89
188.10	111	196.80	70	205.10	1411	217.00	1660
189.00	175	197.10	82	206.10	5619	217.95	178
189.70	25	198.00	22022	207.10	685	219.10	42
190.20	19	199.00	1443	208.05	185	221.00	816

Average of 2.801 to 2.812 min.: 2m86014.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
221.80	54	231.05	118	245.10	289	259.00	126
222.00	80	234.05	66	246.00	519	264.95	341
223.00	301	234.95	65	246.95	51	265.90	69
224.10	3117	236.05	74	249.00	34	269.80	22

225.05	775	237.00	100	249.80	21	271.10	17
225.95	109	239.00	19	252.70	31	271.80	38
227.05	1317	240.00	17	253.95	84	272.20	20
228.00	176	241.00	66	255.10	11759	272.95	364
229.00	311	241.95	160	256.10	1835	274.05	951
229.80	22	243.05	178	257.00	134	275.10	4994
230.00	31	244.10	2311	258.05	632	276.00	614

Average of 2.801 to 2.812 min.: 2m86014.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
277.00	514	297.95	40	321.90	24	335.00	155
278.05	67	301.20	18	323.05	518	341.05	59
282.90	35	301.90	21	324.15	100	345.95	107
285.05	78	303.10	202	326.90	45	350.90	17
289.70	18	304.10	26	327.05	83	351.90	139
292.20	23	310.20	17	328.00	27	352.10	41
293.05	111	313.00	20	329.00	22	353.05	101
294.00	24	314.00	94	331.80	28	354.10	153
295.00	31	315.05	216	332.05	47	355.10	57
296.10	1644	315.95	109	332.95	51	365.05	923
297.00	257	320.95	77	334.10	382	365.95	116

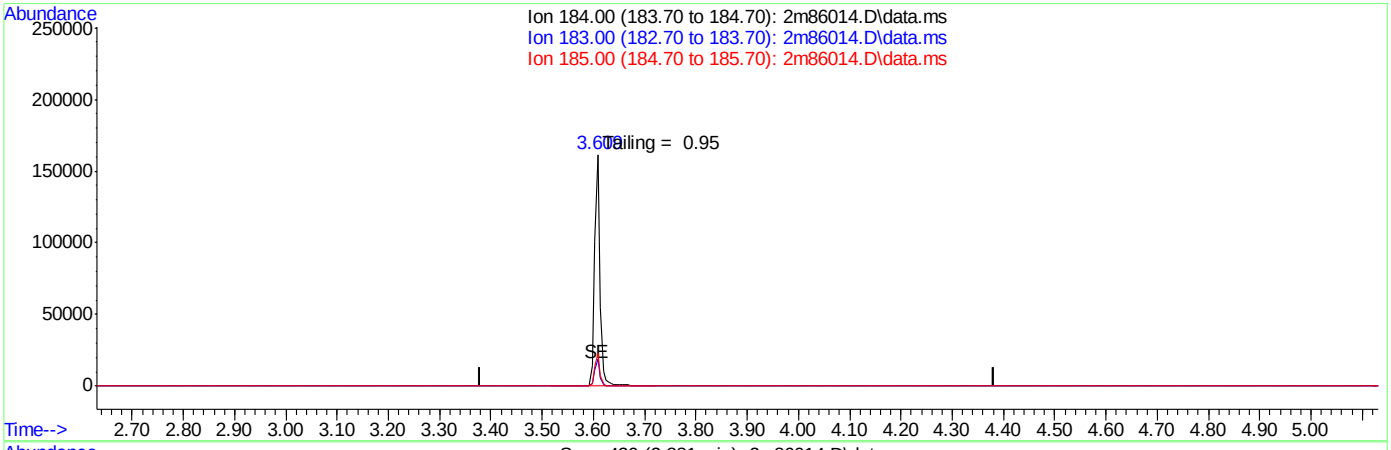
Average of 2.801 to 2.812 min.: 2m86014.D\data.ms
dftpp
Modified:subtracted

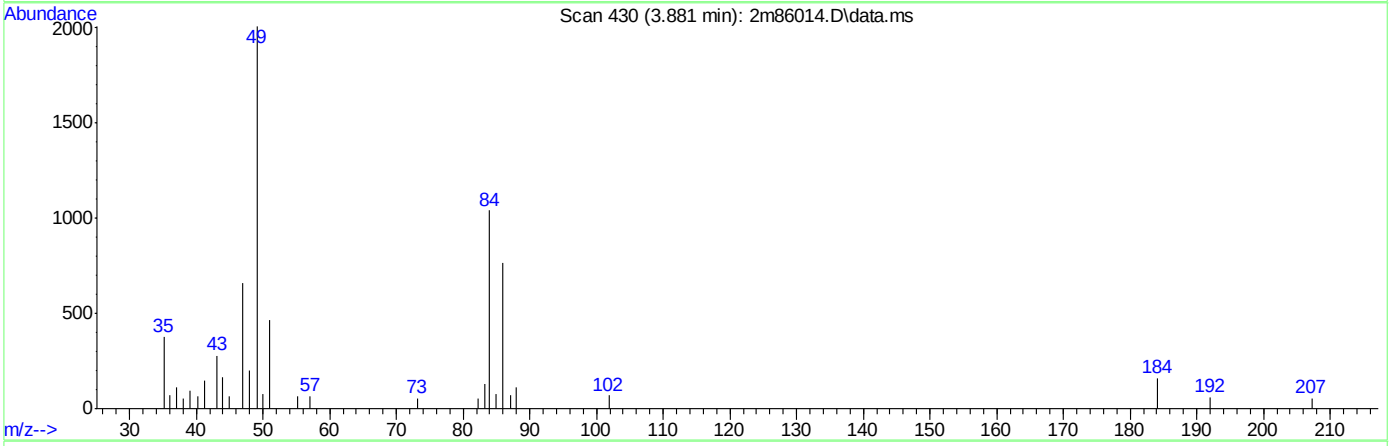
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
366.70	17	418.90	17	443.10	2508		
368.90	17	420.90	152	443.95	222		
370.10	27	422.00	137	445.20	21		
371.05	36	423.00	905				
372.05	340	423.95	210				
372.95	84	429.90	16				
383.00	96	431.40	35				
402.00	106	432.70	42				
403.00	197	433.90	24				
403.80	22	441.10	2204				
404.10	45	442.10	13499				

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E2M3808\
Data File : 2m86014.D
Acq On : 1 Aug 2016 9:57 am
Operator : ashleyn
Sample : dftpp
Misc : op95939,e2m3808
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 01 10:10:15 2016
Quant Method : C:\msdchem\1\METHODS\dftpp2m.M
Quant Title : Semi Volatile GC/MS,zb-5msi30mx .25mmx .25umMon TuThu Jun 09 16:42:34 2016
QLast Update : Thu Jun 09 16:42:34 2016
Response via : Initial Calibration





TIC: 2m86014.D\data.ms

(1) Benzidine

3.881min (-3.881) 0.00

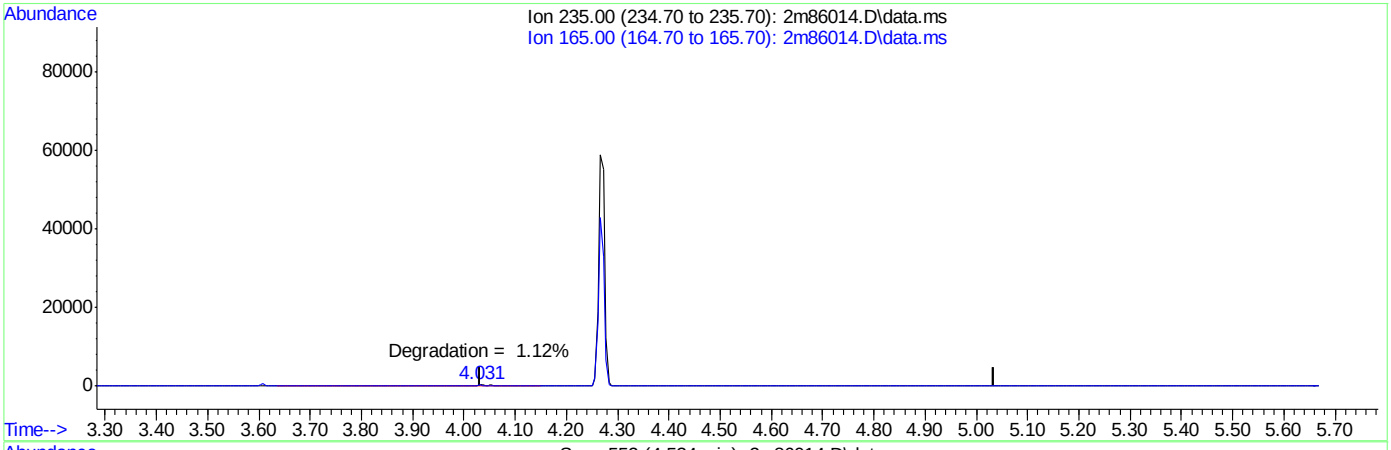
response 0

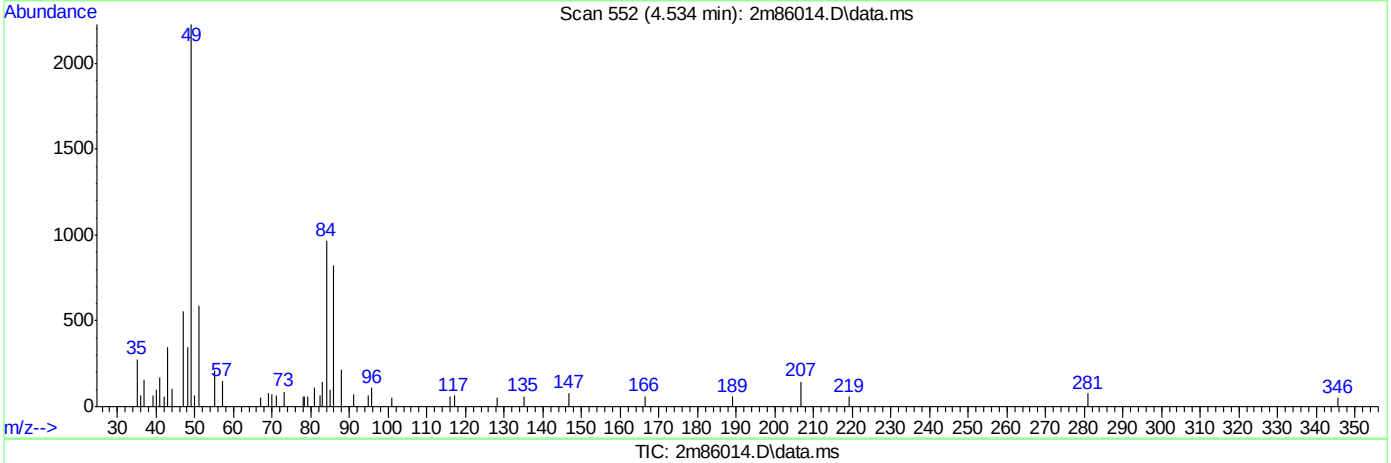
Ion	Exp%	Act%
184.00	100	0.00
183.00	11.70	0.00
185.00	13.90	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E2M3808\
Data File : 2m86014.D
Acq On : 1 Aug 2016 9:57 am
Operator : ashleyn
Sample : dftpp
Misc : op95939,e2m3808
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 01 10:10:15 2016
Quant Method : C:\msdchem\1\METHODS\dftpp2m.M
Quant Title : Semi Volatile GC/MS,zb-5msi30mx .25mmx .25umMon TuThu Jun 09 16:42:34 2016
QLast Update : Thu Jun 09 16:42:34 2016
Response via : Initial Calibration





TIC: 2m86014.D\data.ms

(2) ddt

4.534min (-4.534) 0.00

response 0

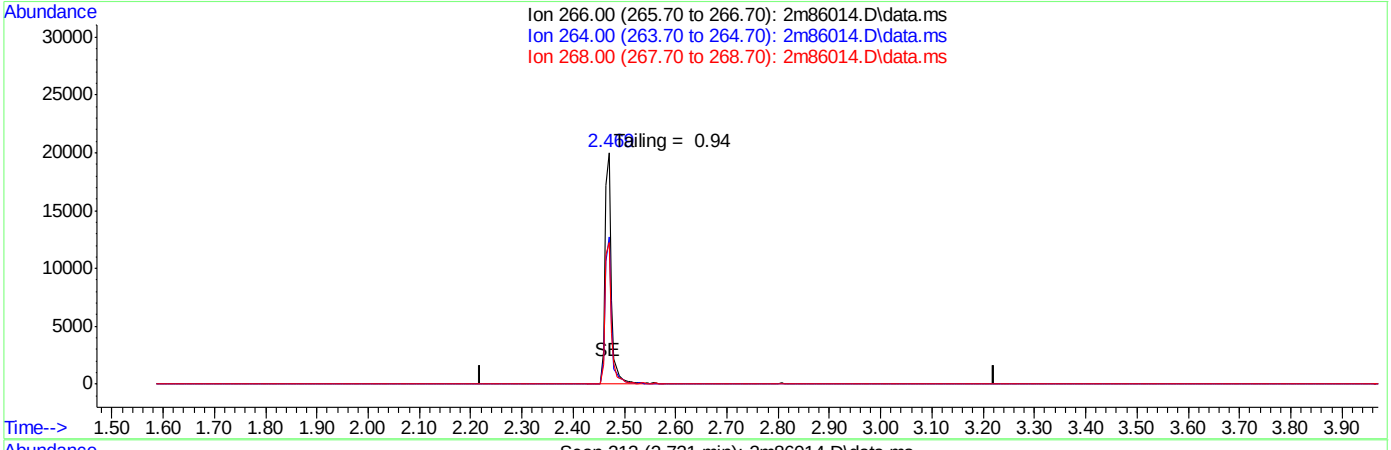
Ion	Exp%	Act%
235.00	100	0.00
165.00	67.20	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

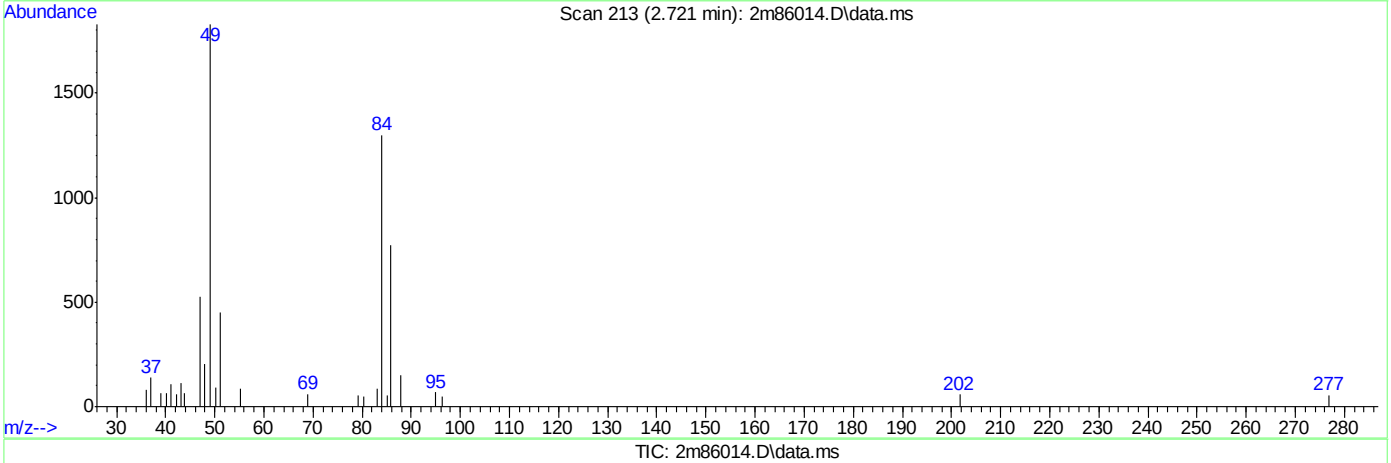
SGS ACCUTEST JC24978

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\DATA\E2M3808\
Data File : 2m86014.D
Acq On    :  1 Aug 2016   9:57 am
Operator  : ashleyn
Sample    : dftpp
Misc      : op95939,e2m3808
ALS Vial  : 1   Sample Multiplier: 1

Quant Time: Aug 01 10:10:15 2016
Quant Method : C:\msdchem\1\METHODS\dftpp2m.M
Quant Title  : Semi Volatile GC/MS,zb-5msi30mx .25mmx .25umMon TuThu Jun 09 16:42:34 2016
QLast Update : Thu Jun 09 16:42:34 2016
Response via : Initial Calibration
```





TIC: 2m86014.D\data.ms

(3) Pentachlorophenol

2.721min (-2.721) 0.00

response 0

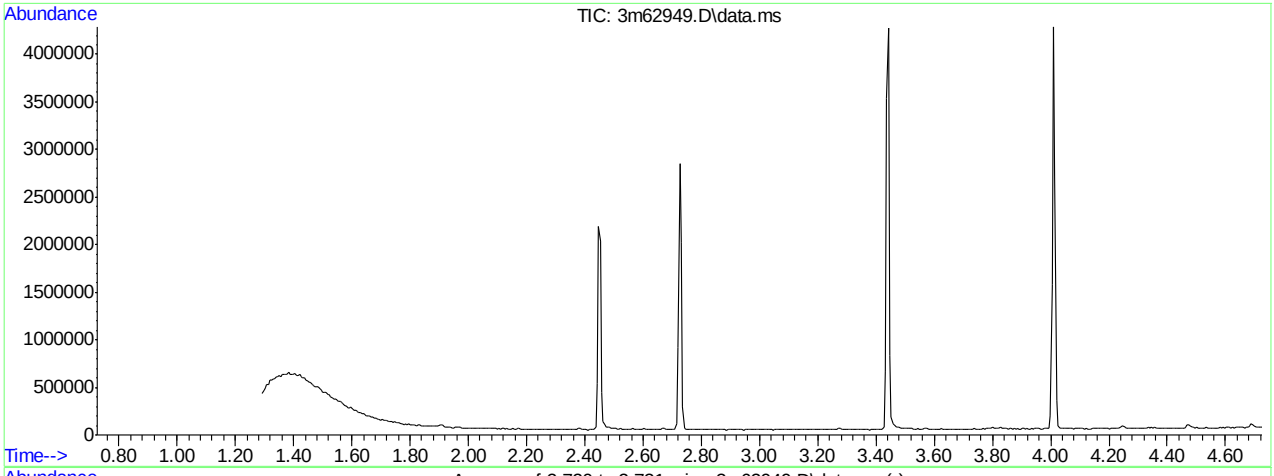
Ion	Exp%	Act%
266.00	100	0.00
264.00	62.40	0.00#
268.00	62.70	0.00#
0.00	0.00	0.00

SGS ACCUTEST JC24978

DFTPP

Data File : C:\msdchem\1\DATA\E3M2975\3m62949.D Vial: 1
Acq On : 14 Jul 2016 9:30 am Operator: ashleyd
Sample : dftpp Inst : MS3M
Misc : op95160a,e3m2975 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 268, 269, 270; Background Corrected with Scan 264

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	45.9	93493	PASS
68	69	0.00	2	1.0	952	PASS
69	198	0.00	100	48.6	99021	PASS
70	69	0.00	2	0.3	292	PASS
127	198	40	60	51.0	104053	PASS
197	198	0.00	1	0.3	639	PASS
198	198	100	100	100.0	203896	PASS
199	198	5	9	7.0	14288	PASS
275	198	10	30	22.9	46742	PASS
365	198	1	100	3.6	7258	PASS
441	443	0.10	100	77.8	26169	PASS
442	198	40	100	85.8	174995	PASS
443	442	17	23	19.2	33633	PASS

3m62949.D DFTPP3M.M Fri Jul 15 17:10:05 2016 RPT1

Average of 2.720 to 2.731 min.: 3m62949.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
35.80	780	50.00	23989	60.85	867	70.10	292
36.85	282	51.00	93493	61.20	841	73.00	1571
37.10	251	52.00	4391	61.95	1401	74.00	8270
37.95	1347	53.20	195	63.10	3792	75.00	14425
39.05	7079	54.00	80	63.90	121	76.15	5735
40.00	153	54.90	522	64.10	391	77.10	97888
43.05	643	56.00	2572	65.00	1887	78.00	6998
43.95	95	57.00	6041	65.85	232	79.00	5682
45.20	181	57.90	301	68.00	952	80.00	4121
48.05	1098	58.80	90	69.00	99021	81.05	6340
49.00	2458	59.85	223	69.80	198	81.95	2010

Average of 2.720 to 2.731 min.: 3m62949.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
83.00	1730	93.95	925	102.95	1237	112.20	443
84.00	1130	94.80	131	104.00	2295	113.00	324
84.95	932	95.10	98	104.90	275	113.80	100
86.00	1924	95.80	260	105.10	2132	114.50	139
86.80	176	96.05	281	105.90	477	115.10	517
87.05	922	97.95	6986	107.00	29784	115.90	371
87.95	259	99.00	6718	107.95	4955	116.95	20106
90.95	1792	99.80	150	108.90	470	118.00	1660
91.90	413	99.95	528	109.95	56525	118.95	281
92.05	1709	101.00	4893	110.95	7971	119.20	210
92.95	9486	102.00	215	111.90	550	119.90	514

Average of 2.720 to 2.731 min.: 3m62949.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
120.95	335	130.00	3555	137.85	442	144.95	441
121.90	1518	130.85	331	138.70	141	145.60	304
122.90	696	131.10	282	138.90	104	146.00	423
123.10	2538	132.05	544	139.90	127	147.05	2269
123.80	392	132.80	190	140.90	2952	148.00	4977
124.05	1204	133.40	116	141.05	2336	148.95	1547
124.40	172	134.05	1095	141.90	908	150.00	494
125.05	1600	134.95	3478	142.15	757	151.15	987
127.00	104053	135.80	494	142.70	651	152.00	331
128.05	8192	136.00	611	143.05	547	152.80	313
129.00	41717	137.00	1821	144.00	338	153.00	1377

Average of 2.720 to 2.731 min.: 3m62949.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
153.90	1491	162.95	302	170.70	389	177.05	1410
155.00	3313	163.60	80	171.15	369	177.90	274
156.00	4526	163.80	214	171.75	581	178.10	290
157.10	1201	164.20	178	172.10	337	179.00	7154
157.85	398	165.00	1370	172.70	129	180.00	4620
158.10	694	166.05	1449	172.95	920	180.95	2398
159.05	878	166.95	10807	173.70	283	181.70	169
159.95	1482	167.95	5557	174.05	1826	182.20	100
161.00	2558	168.95	1254	175.05	3871	182.80	126
161.85	718	169.65	270	176.00	1063	183.00	146
162.10	240	170.00	129	176.80	161	183.40	111

Average of 2.720 to 2.731 min.: 3m62949.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
184.00	588	193.00	2487	202.90	701	212.20	108
185.15	4273	193.95	536	203.10	549	213.00	125
186.00	30404	194.80	315	204.05	8251	213.90	89
187.00	8487	195.00	253	205.05	11894	214.65	518

187.90	432	196.00	6915	206.00	52107	215.05	395
188.10	448	197.00	639	206.95	6824	215.90	242
188.95	1910	197.90	203896	207.95	1376	217.00	13616
189.95	375	198.90	14288	209.05	789	217.80	808
190.70	105	199.95	1342	210.10	1323	218.05	1006
190.90	582	201.10	387	210.50	614	219.10	117
192.00	2244	201.50	1424	211.05	2473	219.70	77

Average of 2.720 to 2.731 min.: 3m62949.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
220.00	152	229.00	2554	237.05	1156	247.05	818
221.05	11183	229.80	94	238.05	290	248.15	200
221.70	1528	230.90	683	238.85	317	249.05	712
222.00	983	231.10	591	239.65	338	250.00	86
223.00	3570	231.85	265	241.00	705	251.10	314
224.00	30289	232.75	285	241.70	136	252.10	537
224.95	7608	233.70	355	242.10	1431	252.90	454
226.05	613	234.05	604	243.00	1372	253.10	522
227.00	12039	235.00	863	244.05	22305	253.70	79
227.80	884	235.95	700	245.00	3084	255.00	118573
228.00	1084	236.70	280	246.00	4456	256.00	17297

Average of 2.720 to 2.731 min.: 3m62949.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
256.95	1127	266.00	241	276.05	5603	288.70	81
258.00	6788	267.60	75	276.95	4368	290.70	120
259.00	790	267.90	168	277.90	483	292.90	189
259.95	219	268.10	86	278.10	245	293.05	960
260.80	143	269.95	176	280.80	75	294.10	203
261.10	152	271.50	188	281.05	179	296.00	12489
262.90	80	272.15	601	283.00	209	296.90	1981
263.85	185	272.90	352	283.20	193	298.10	130
264.80	264	273.05	2929	283.80	158	301.80	402
265.00	2166	274.05	8593	284.05	389	303.00	1665
265.70	223	275.00	46742	284.95	865	304.10	399

Average of 2.720 to 2.731 min.: 3m62949.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
307.80	192	323.05	5445	335.10	593	353.90	153
309.10	94	323.90	440	336.05	229	354.10	1218
309.75	276	324.10	279	338.55	153	354.70	98
313.10	114	325.30	110	340.80	287	355.05	203
314.00	789	325.90	92	341.00	391	365.00	7258
314.60	74	326.95	1136	343.90	82	366.00	1197
315.05	1316	328.00	379	345.85	1198	370.00	84
315.85	1099	331.85	336	347.00	328	370.90	433
317.00	236	333.05	651	351.95	1819	371.80	86
321.00	483	334.05	2460	353.00	546	372.00	2842
321.85	286	334.80	281	353.20	584	372.85	631

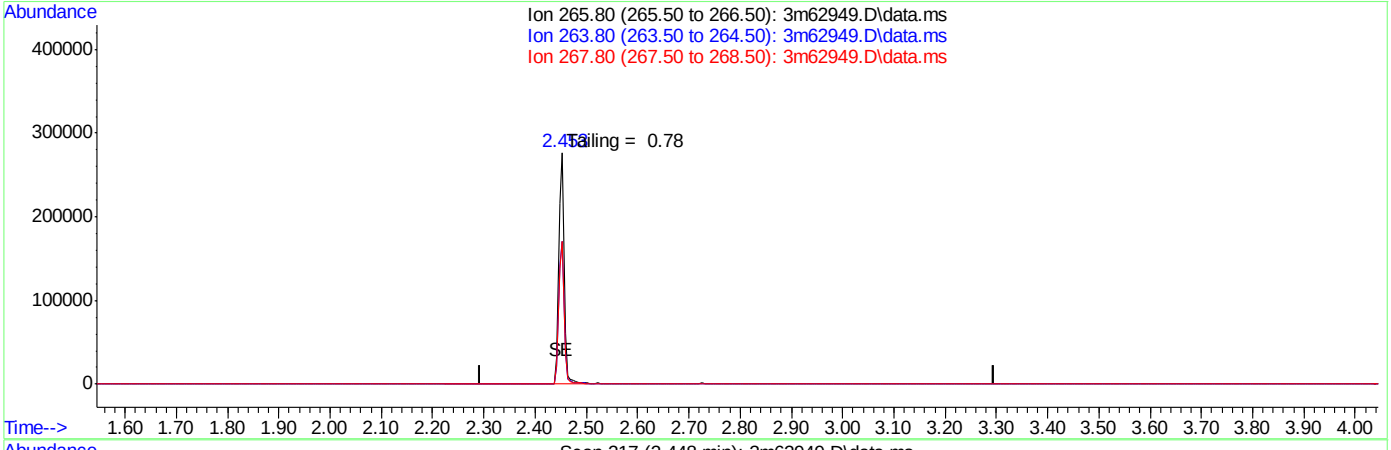
Average of 2.720 to 2.731 min.: 3m62949.D\data.ms
dftpp
Modified:subtracted

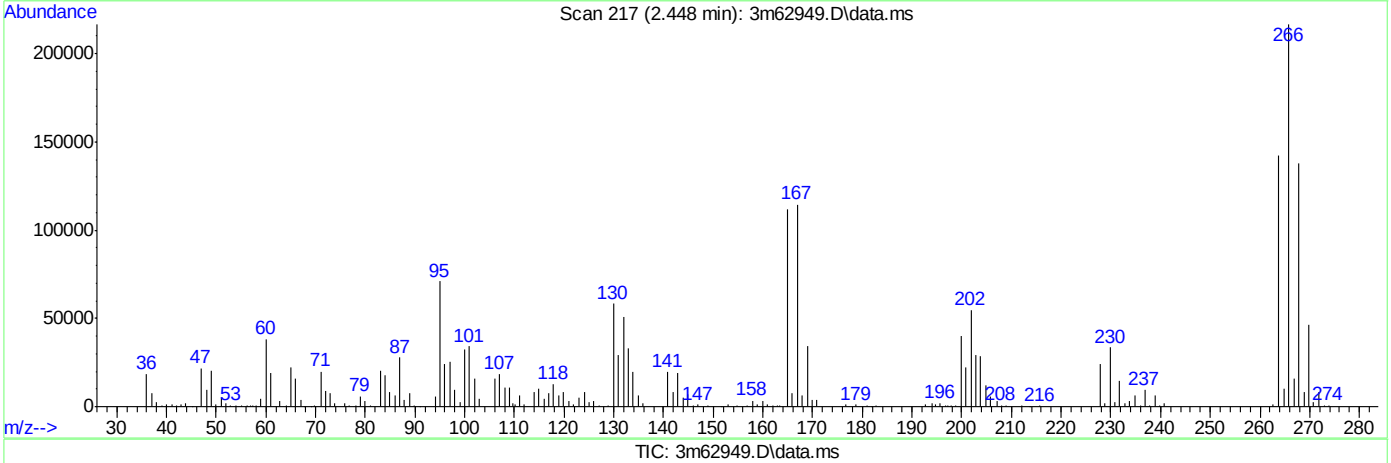
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
373.20	205	422.10	457	444.90	96		
382.80	520	422.90	546				
390.05	439	423.05	9075				
390.90	98	424.00	2332				
391.30	83	424.70	90				
400.70	124	425.50	77				
402.00	1136	439.80	286				
403.00	1853	441.00	26169				
404.05	626	442.00	174995				
405.00	113	443.00	33633				
420.95	1401	443.95	3002				

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E3M2975\
Data File : 3m62949.D
Acq On : 14 Jul 2016 9:30 am
Operator : ashleyd
Sample : dftpp
Misc : op95160a,e3m2975
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 15 17:09:34 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: 3m62949.D\data.ms

(1) Pentachlorophenol (t)

2.795min (-2.795) 0.00ppb

response 0

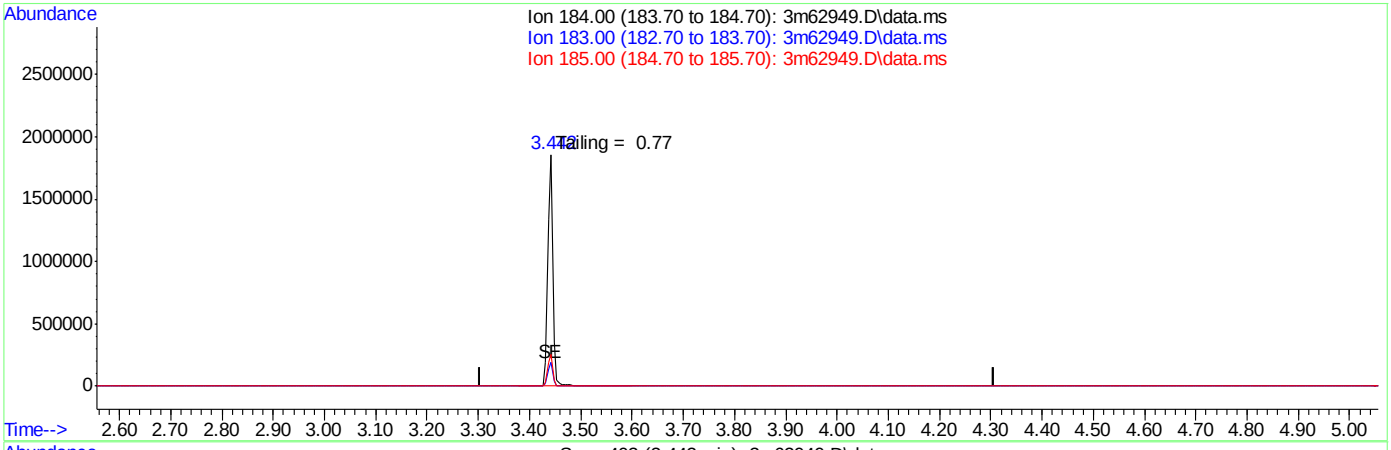
Ion	Exp%	Act%
265.80	100	0.00
263.80	62.80	0.00#
267.80	64.10	0.00#
0.00	0.00	0.00

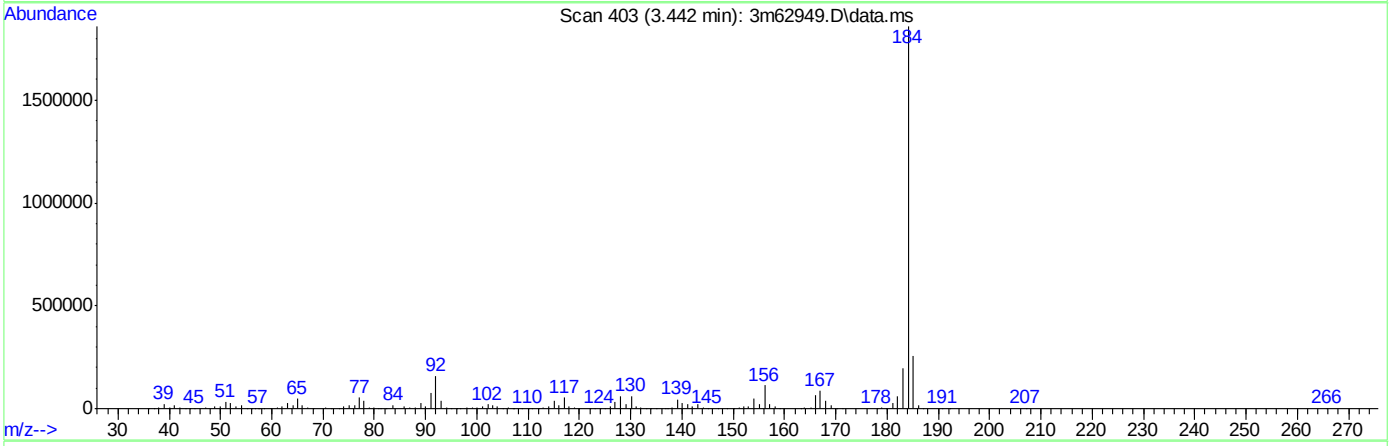
SGS ACCUTEST JC24978

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E3M2975\
Data File : 3m62949.D
Acq On : 14 Jul 2016 9:30 am
Operator : ashleyd
Sample : dftpp
Misc : op95160a,e3m2975
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 15 17:09:34 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: 3m62949.D\data.ms

(2) Benzidine (t)

3.806min 0.00ppb d

response 0

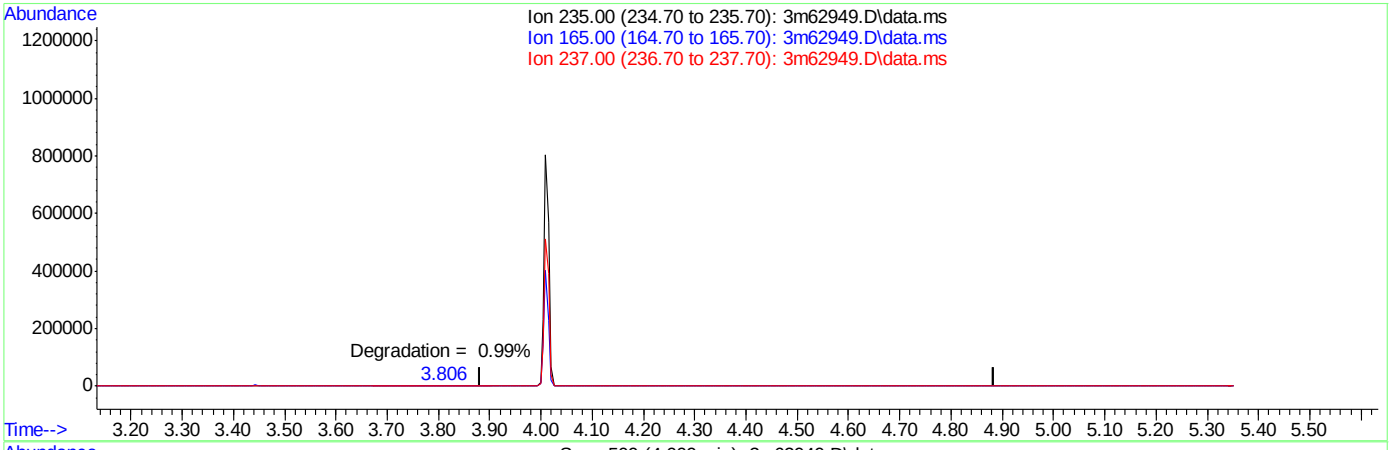
Ion	Exp%	Act%
184.00	100	0.00
183.00	11.50	0.00
185.00	14.40	0.00
0.00	0.00	0.00

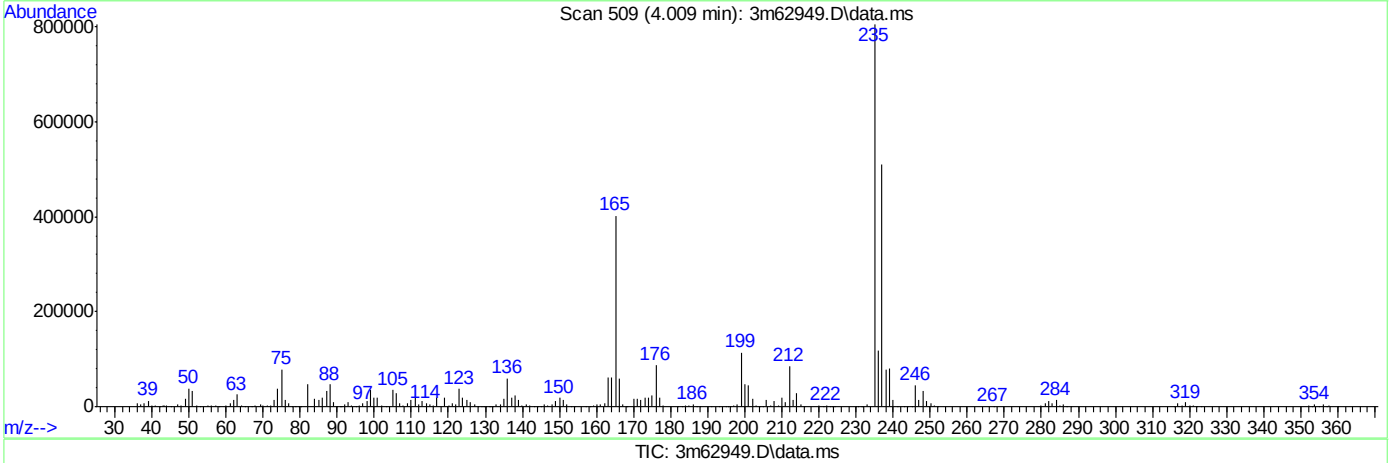
SGS ACCUTEST JC24978

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E3M2975\
Data File : 3m62949.D
Acq On : 14 Jul 2016 9:30 am
Operator : ashleyd
Sample : dftpp
Misc : op95160a,e3m2975
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 15 17:09:34 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: 3m62949.D\data.ms

(3) PP-DDT (t)

4.384min (-4.384) 0.00ppb

response 0

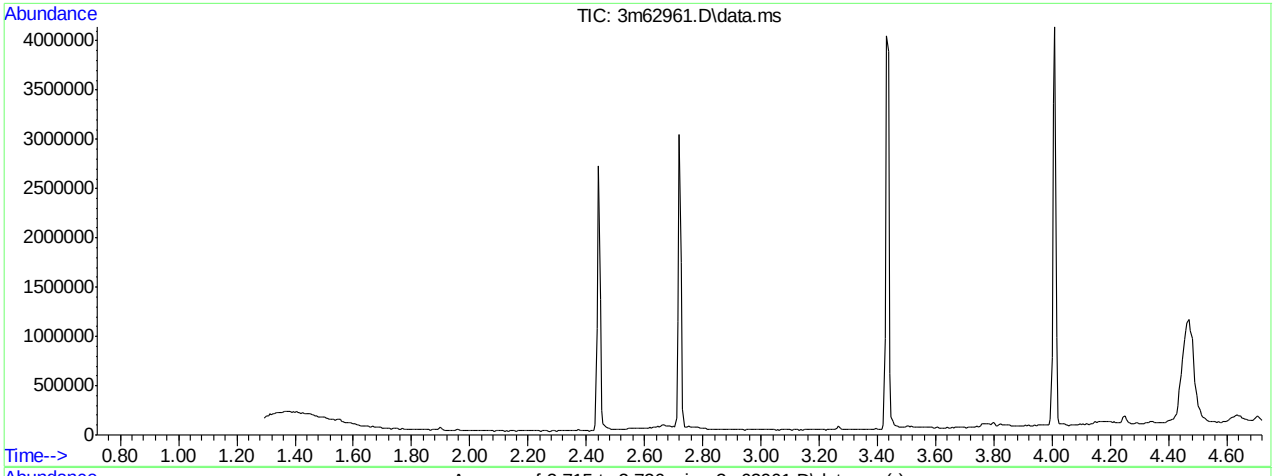
Ion	Exp%	Act%
235.00	100	0.00
165.00	0.00	0.00
237.00	0.00	0.00
0.00	0.00	0.00

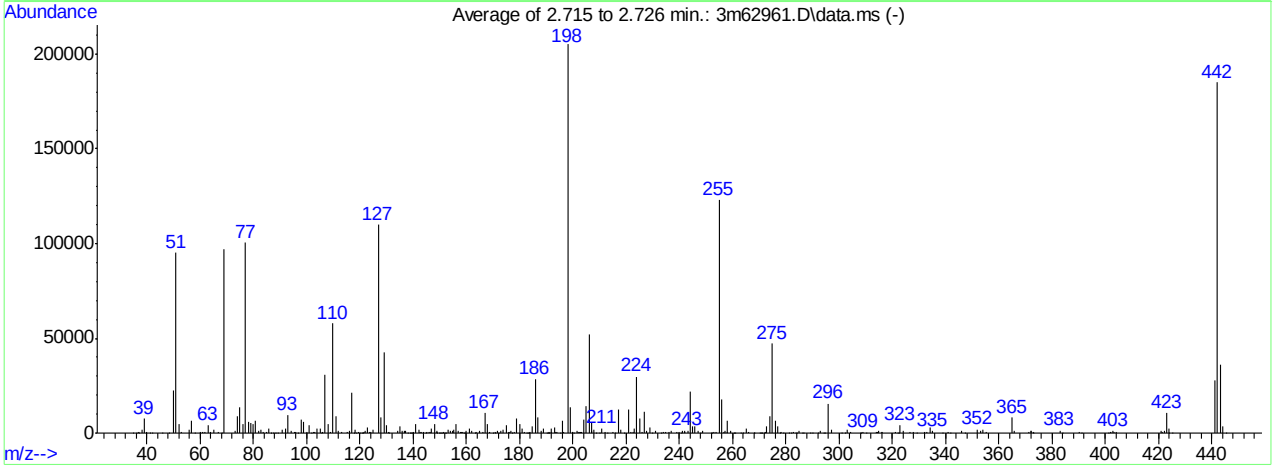
SGS ACCUTEST JC24978

DFTPP

Data File : C:\msdchem\1\DATA\E3M2976\3m62961.D Vial: 1
Acq On : 14 Jul 2016 5:04 pm Operator: ashleyd
Sample : dftpp Inst : MS3M
Misc : op95160a,e3m2976 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 267, 268, 269; Background Corrected with Scan 260

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	46.3	95013	PASS
68	69	0.00	2	0.0	3	PASS
69	198	0.00	100	47.2	96831	PASS
70	69	0.00	2	0.0	0	PASS
127	198	40	60	53.6	109997	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	205083	PASS
199	198	5	9	6.7	13647	PASS
275	198	10	30	23.0	47211	PASS
365	198	1	100	4.0	8163	PASS
441	443	0.10	100	76.4	27820	PASS
442	198	40	100	90.2	184928	PASS
443	442	17	23	19.7	36390	PASS

3m62961.D DFTPP3M.M Fri Jul 15 17:11:59 2016 RPT1

Average of 2.715 to 2.726 min.: 3m62961.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
35.10	206	49.95	22678	64.05	453	78.95	5589
36.10	298	50.95	95013	65.00	1993	79.95	4550
37.00	428	52.10	4813	67.10	327	80.95	6353
37.20	148	53.00	507	67.95	3	82.00	1380
38.10	1685	55.95	1815	69.00	96831	83.00	1613
39.00	7669	57.00	6400	73.10	1282	83.90	463
39.95	717	58.10	273	74.00	9040	84.95	740
41.05	74	59.95	617	75.00	13380	85.95	2197
42.05	205	60.95	826	76.05	4738	86.70	232
45.90	180	61.95	856	77.05	100557	87.70	224
48.20	193	63.00	4206	78.10	6042	88.20	124

Average of 2.715 to 2.726 min.: 3m62961.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
89.05	191	101.00	4158	110.00	57869	119.80	236
90.95	1632	101.90	194	111.00	8844	120.60	102
92.05	2127	102.75	878	112.00	1180	121.10	313
93.00	9779	103.10	619	113.00	726	121.80	396
94.05	921	103.90	2465	115.10	560	122.00	1264
95.70	387	105.00	2436	115.95	1365	122.95	2870
96.00	407	105.70	217	116.95	21115	123.80	668
96.95	293	106.00	500	117.80	304	124.05	905
97.95	7299	106.95	30629	118.05	1680	125.05	1848
99.00	5764	108.00	4565	118.85	135	127.00	109997
100.05	456	108.80	341	119.30	333	128.00	8341

Average of 2.715 to 2.726 min.: 3m62961.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
129.00	42463	139.20	145	146.25	627	152.10	157
130.00	3978	139.75	291	147.00	2460	152.30	153
130.80	38	140.00	361	147.95	4941	153.00	1837
131.00	591	141.00	4866	148.80	249	154.00	1369
134.05	972	142.05	1828	148.90	327	154.85	1305
134.95	3433	142.80	562	149.05	1039	155.10	1952
136.00	1483	143.00	675	149.90	207	156.00	4923
136.80	993	144.05	541	150.10	139	157.00	1057
137.05	949	144.60	94	150.80	221	157.60	696
138.10	244	145.10	681	151.05	172	158.05	471
139.00	117	146.00	499	151.55	492	158.85	668

Average of 2.715 to 2.726 min.: 3m62961.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
159.10	275	167.95	4931	176.40	455	183.50	87
159.60	298	168.95	768	176.80	1256	184.00	796
159.90	1090	170.00	238	177.20	224	184.95	3523
161.00	2186	170.80	450	178.00	417	186.00	28453
161.95	973	171.00	163	179.00	7430	187.05	8201
163.10	113	171.80	1055	179.95	4715	188.05	932
163.85	621	172.10	258	181.00	2312	188.95	2233
164.80	940	173.00	1191	182.00	469	190.05	284
165.00	483	174.00	1859	182.60	207	190.60	87
166.05	711	175.00	4346	182.90	124	190.90	146
166.95	10404	175.95	901	183.30	89	191.10	731

Average of 2.715 to 2.726 min.: 3m62961.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
191.70	588	200.10	590	207.10	5129	219.20	89
192.05	2179	200.40	205	207.95	1530	220.95	12345
193.00	2749	201.50	1376	208.90	214	221.90	636
193.75	348	202.10	351	210.10	293	222.80	689

194.10	437	202.50	325	210.90	2410	222.95	2670
195.10	210	202.90	615	212.10	401	224.05	29870
196.05	6405	203.10	451	213.05	220	225.05	7434
196.60	488	204.05	7361	215.00	536	225.90	361
198.00	205083	205.05	14281	216.00	287	226.95	11462
198.90	13647	206.00	52144	217.00	12568	227.85	1339
199.85	581	206.90	1287	218.00	1972	228.95	2771

Average of 2.715 to 2.726 min.: 3m62961.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
229.95	319	241.90	656	253.10	501	263.20	129
230.85	1074	242.15	1214	253.85	558	263.85	281
232.95	272	243.05	1374	255.00	122883	264.95	2632
234.00	901	244.00	22042	256.00	17689	265.90	527
234.95	690	244.95	3293	256.80	334	267.90	134
236.00	456	245.95	3661	257.00	1048	268.20	91
236.95	957	246.95	991	257.80	880	270.10	184
239.05	323	248.00	136	258.00	6575	270.80	146
239.95	493	248.90	1009	259.15	936	271.00	176
240.70	221	252.00	302	260.50	86	271.80	87
241.05	986	252.20	198	261.10	212	272.10	469

Average of 2.715 to 2.726 min.: 3m62961.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
272.90	3650	283.70	82	296.00	15586	314.30	331
274.00	8716	284.10	136	296.95	1961	314.95	1425
275.00	47211	285.00	1188	300.90	154	315.90	628
276.00	6810	286.10	85	302.20	261	316.10	415
276.95	3529	286.70	98	302.95	1733	321.05	701
277.90	197	289.05	219	304.10	403	321.80	217
278.20	330	289.85	198	307.90	179	322.30	81
279.10	85	292.00	220	308.10	115	323.00	4319
281.30	90	292.95	1290	309.05	391	323.95	1226
281.85	185	294.00	222	310.00	152	326.75	765
282.95	765	294.70	174	313.95	676	328.00	547

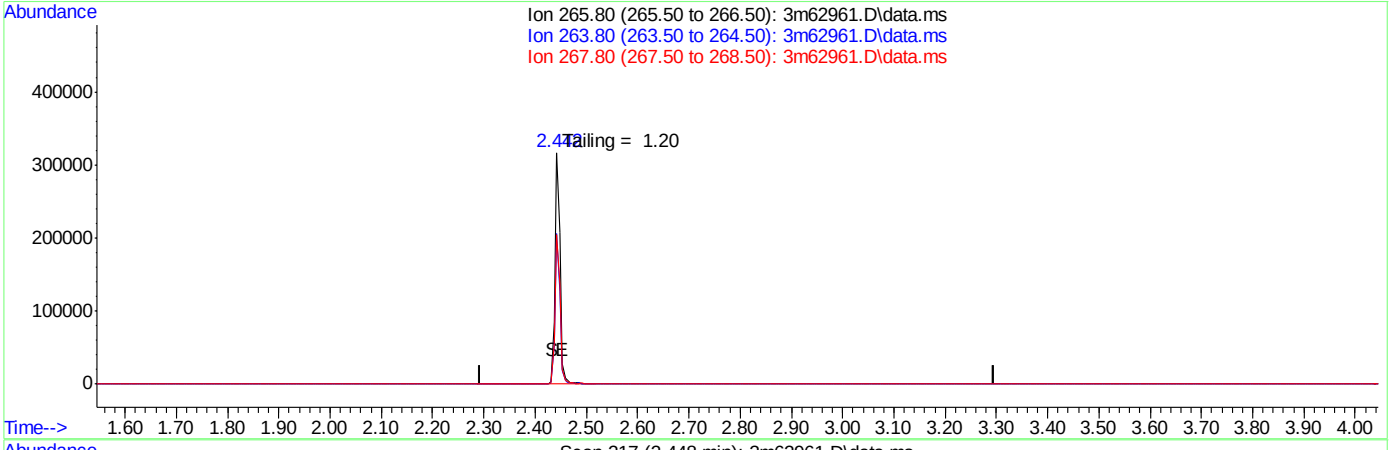
Average of 2.715 to 2.726 min.: 3m62961.D\data.ms
dftpp
Modified:subtracted

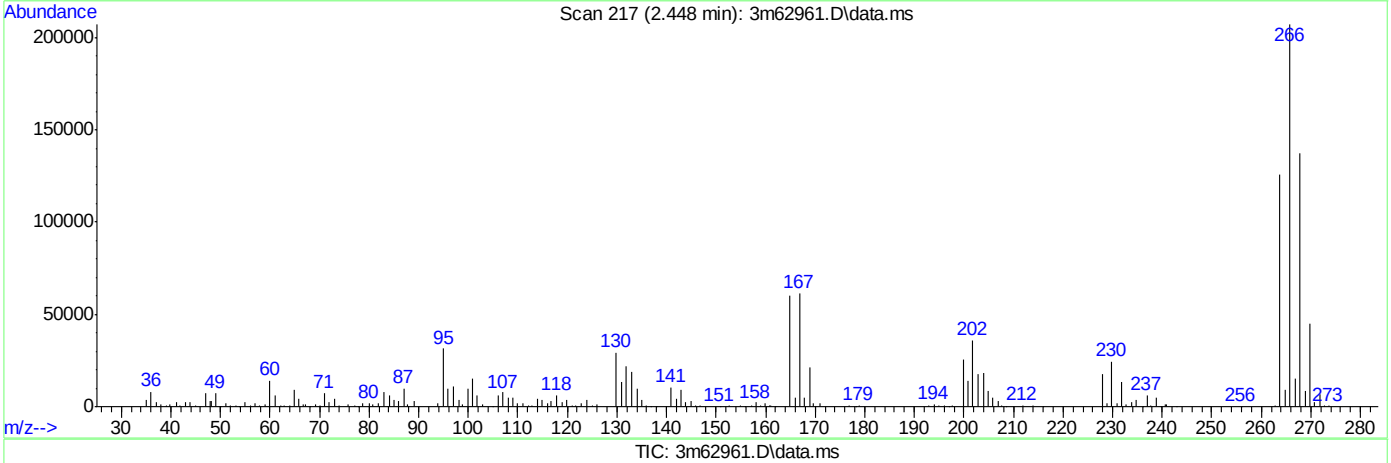
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
329.15	298	353.05	1455	384.00	285	422.00	1282
332.10	581	353.95	1766	390.10	380	423.05	10484
332.95	687	355.15	334	390.95	306	423.80	242
334.05	3119	365.00	8163	401.10	123	424.00	2139
335.05	1076	365.85	960	401.80	712	424.90	290
338.80	110	371.05	411	402.00	686	441.00	27820
340.95	763	371.90	1451	402.90	1115	442.00	184928
341.80	101	372.10	1194	403.10	900	443.00	36390
345.95	1427	372.70	275	403.95	776	444.05	3829
347.00	260	373.05	716	420.90	1344	445.10	83
351.95	1812	382.95	1299	421.30	417		

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E3M2976\
Data File : 3m62961.D
Acq On : 14 Jul 2016 5:04 pm
Operator : ashleyd
Sample : dftpp
Misc : op95160a,e3m2976
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 14 17:08:27 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: 3m62961.D\data.ms

(1) Pentachlorophenol (t)

2.795min (-2.795) 0.00ppb

response 0

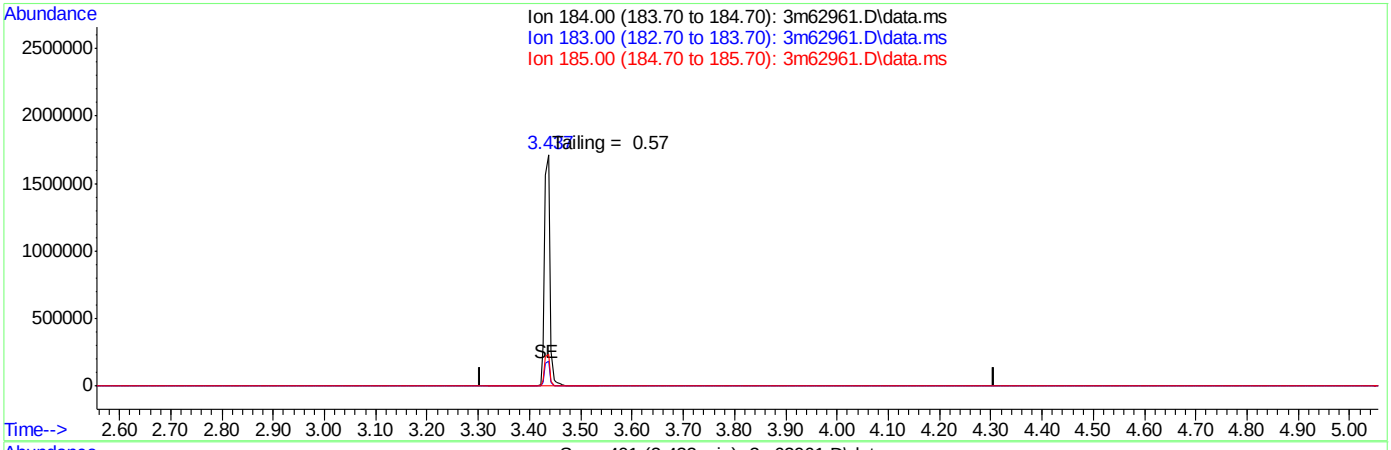
Ion	Exp%	Act%
265.80	100	0.00
263.80	62.80	0.00#
267.80	64.10	0.00#
0.00	0.00	0.00

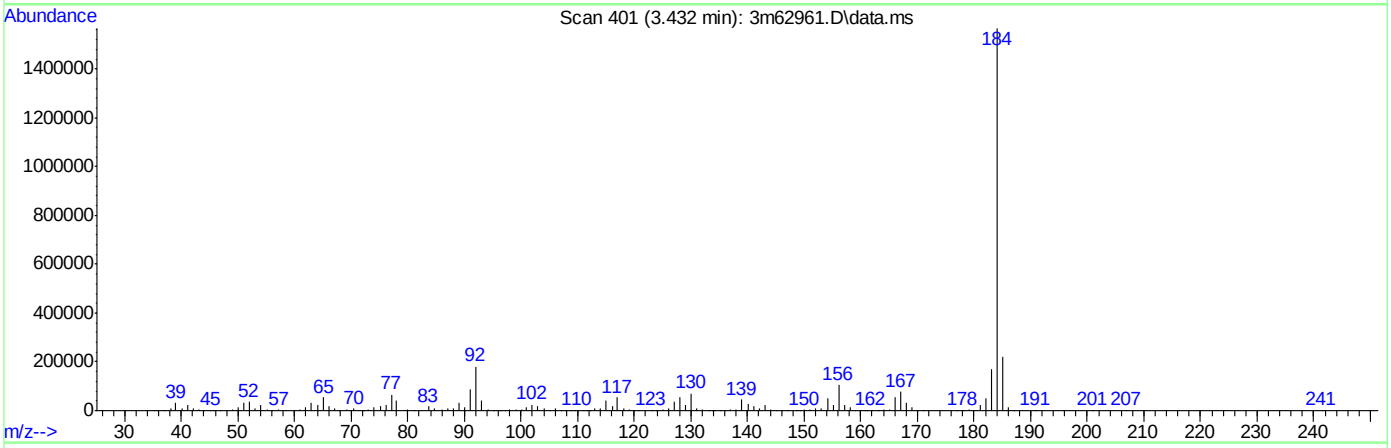
SGS ACCUTEST JC24978

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E3M2976\
Data File : 3m62961.D
Acq On : 14 Jul 2016 5:04 pm
Operator : ashleyd
Sample : dftpp
Misc : op95160a,e3m2976
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 14 17:08:27 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: 3m62961.D\data.ms

(2) Benzidine (t)

3.806min 0.00ppb d

response 0

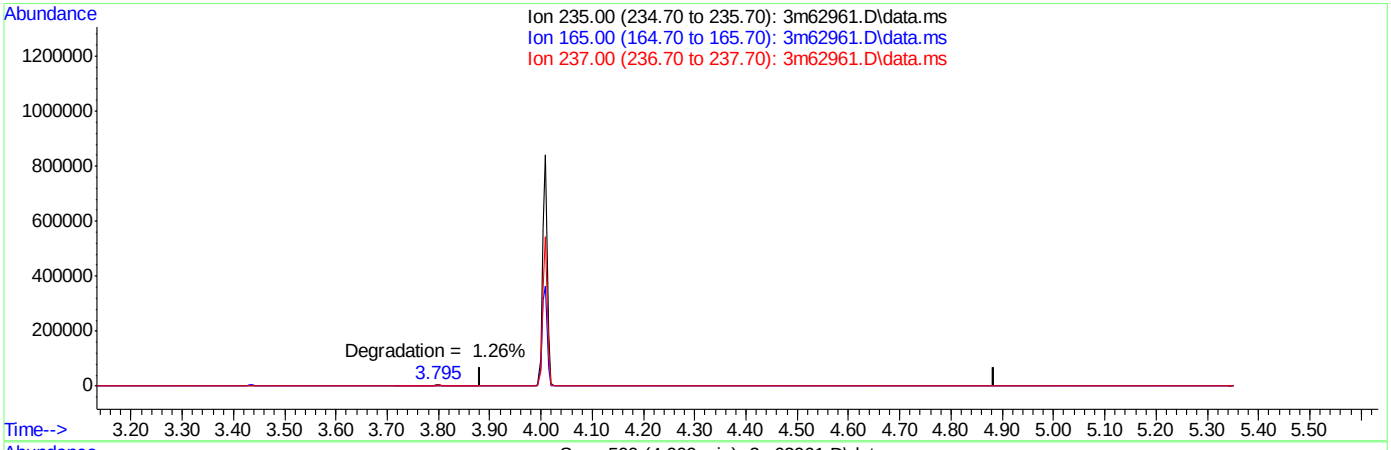
Ion	Exp%	Act%
184.00	100	0.00
183.00	11.50	0.00
185.00	14.40	0.00
0.00	0.00	0.00

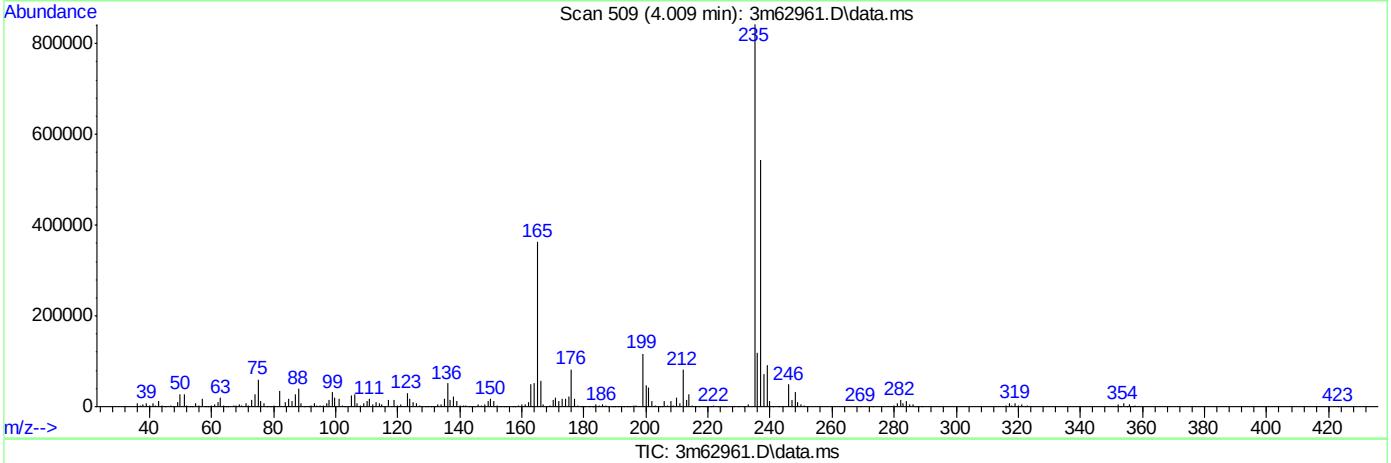
SGS ACCUTEST JC24978

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E3M2976\
Data File : 3m62961.D
Acq On : 14 Jul 2016 5:04 pm
Operator : ashleyd
Sample : dftpp
Misc : op95160a,e3m2976
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 14 17:08:27 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: 3m62961.D\data.ms

(3) PP-DDT (t)

4.384min 0.00ppb d

response 0

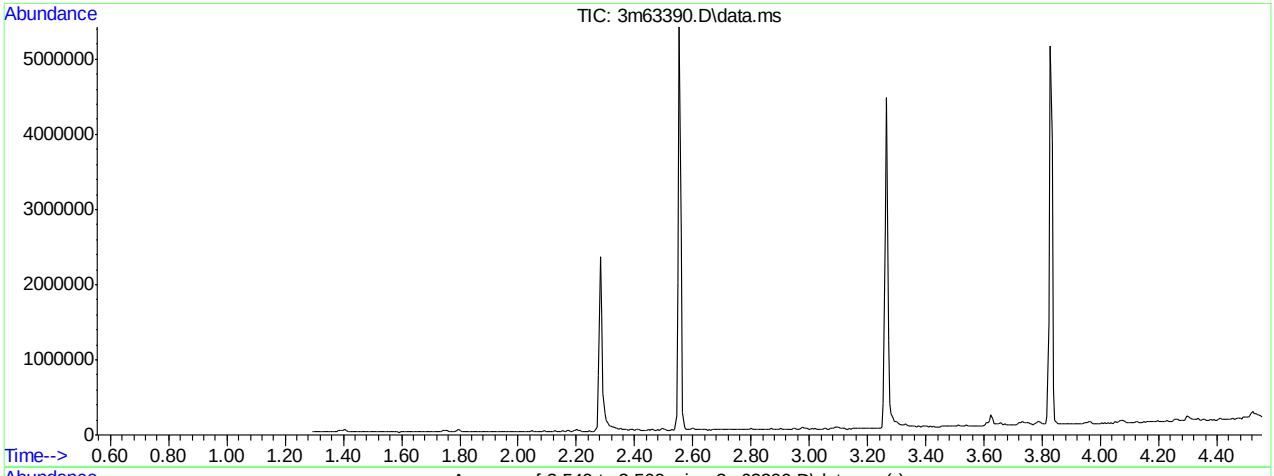
Ion	Exp%	Act%
235.00	100	0.00
165.00	0.00	0.00
237.00	0.00	0.00
0.00	0.00	0.00

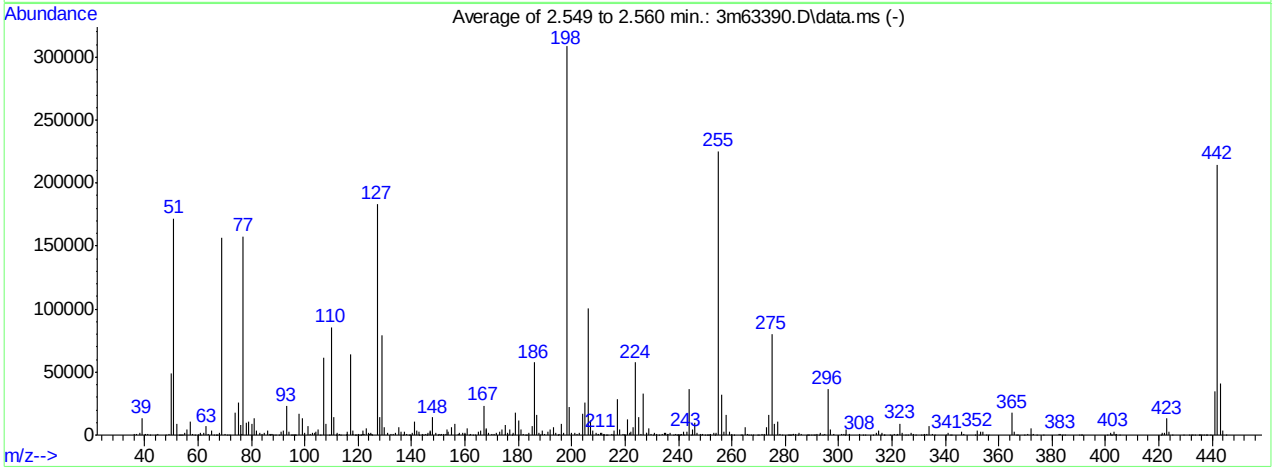
SGS ACCUTEST JC24978

DFTPP

Data File : C:\msdchem\1\DATA\E3M3004\3m63390.D Vial: 1
Acq On : 2 Aug 2016 10:56 am Operator: SHANICEG
Sample : dftpp Inst : MS3M
Misc : op95160a,e3m3004 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 236, 237, 238; Background Corrected with Scan 231

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	55.8	172058	PASS
68	69	0.00	2	1.0	1530	PASS
69	198	0.00	100	50.9	157016	PASS
70	69	0.00	2	0.8	1233	PASS
127	198	40	60	59.6	183775	PASS
197	198	0.00	1	0.7	2113	PASS
198	198	100	100	100.0	308459	PASS
199	198	5	9	7.3	22647	PASS
275	198	10	30	26.1	80397	PASS
365	198	1	100	5.7	17502	PASS
441	443	0.10	100	86.0	35098	PASS
442	198	40	100	69.5	214451	PASS
443	442	17	23	19.0	40831	PASS

3m63390.D DFTPP3M.M Tue Aug 02 12:46:43 2016 RPT1

Average of 2.549 to 2.560 min.: 3m63390.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
35.85	980	49.00	951	57.90	514	66.80	169
36.95	720	50.00	48980	58.90	242	67.10	335
38.10	2125	50.95	172058	59.80	245	68.00	1530
38.95	13799	52.00	8526	60.10	157	69.00	157016
39.90	424	52.95	193	60.70	351	70.05	1233
40.20	511	53.20	139	61.00	1428	70.95	256
41.00	1308	53.80	85	62.10	2164	71.80	213
41.85	442	54.00	167	63.00	6760	74.05	17822
44.00	136	55.05	1629	63.95	1054	75.00	25968
44.95	590	55.90	4638	65.05	3305	76.00	7739
47.85	199	57.00	10751	65.90	186	76.20	1224

Average of 2.549 to 2.560 min.: 3m63390.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
76.95	157816	87.00	774	95.20	282	103.85	2184
78.05	10086	87.20	1005	95.80	100	104.10	2524
78.95	10761	87.85	780	96.10	108	104.95	4385
80.00	9051	88.05	27	96.30	195	105.90	333
81.00	13577	89.00	459	96.60	122	107.00	61683
82.00	3322	90.20	156	97.95	16525	107.90	9115
83.00	1894	91.00	2683	99.05	13463	109.00	412
83.90	1039	91.95	3213	100.05	1651	109.95	85669
84.95	1882	93.05	22801	100.95	7446	111.00	14549
85.95	3664	93.90	2543	102.05	538	111.70	385
86.80	190	94.85	143	103.00	1443	111.90	1376

Average of 2.549 to 2.560 min.: 3m63390.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
112.90	731	120.10	133	125.20	463	136.70	410
113.30	208	120.80	318	127.00	183775	137.15	3109
115.30	128	121.10	227	128.00	13987	138.00	1207
115.70	595	121.70	653	129.00	79283	138.80	312
115.95	2572	121.95	3701	129.90	6615	139.25	328
117.00	63872	122.20	634	130.90	2143	140.05	1418
117.90	1075	122.95	5819	132.05	772	140.90	10663
118.05	3525	123.95	1851	133.05	986	142.10	3356
118.90	255	124.20	724	133.95	1965	142.70	451
119.35	399	124.85	1983	135.00	6223	142.95	2422
119.90	556	125.00	598	136.05	2405	144.10	669

Average of 2.549 to 2.560 min.: 3m63390.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
144.50	111	151.05	1232	160.00	747	168.10	5182
145.10	1130	151.80	953	160.15	2105	169.00	2014
145.70	372	152.80	858	161.00	5079	170.15	570
146.20	1697	153.05	4452	161.70	327	170.95	1074
146.90	3518	153.85	2702	162.05	1137	171.85	2070
147.15	2697	155.00	6270	162.95	468	172.90	3124
147.95	14238	156.00	8997	163.90	199	174.00	4818
149.00	2140	157.30	1328	165.00	3068	175.00	8057
149.80	155	158.00	1436	166.05	3846	175.20	1282
150.15	748	159.00	1761	166.95	23400	175.90	364
150.70	141	159.90	658	167.90	4780	176.05	1450

Average of 2.549 to 2.560 min.: 3m63390.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
176.95	4176	186.00	57731	194.90	107	205.00	26271
177.60	344	187.00	16254	195.15	686	206.00	100496
178.05	1664	187.90	1454	196.00	9196	207.00	11953
179.00	17715	188.30	335	196.95	2113	208.00	3720

180.05	11685	188.80	589	198.00	308459	209.00	1680
180.95	4891	189.05	3324	198.90	22647	209.90	1148
181.95	677	189.95	1006	199.90	2042	210.10	831
182.60	177	191.00	2599	201.30	1475	210.90	1823
183.05	175	191.95	4795	201.80	562	211.10	2123
184.00	1884	193.00	6122	202.90	2049	211.60	269
185.05	7384	194.00	1514	204.00	16986	211.90	507

Average of 2.549 to 2.560 min.: 3m63390.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
212.15	416	220.00	253	229.00	5604	236.10	506
212.80	202	221.00	12545	229.90	953	236.95	1793
213.20	199	221.80	1422	230.40	85	238.05	178
214.95	540	222.10	3000	230.90	2097	238.90	934
215.30	447	223.05	5884	232.00	510	239.40	104
215.95	3518	224.00	57627	232.80	449	239.70	268
217.00	28632	225.00	14676	233.85	1213	239.95	345
217.95	4184	225.90	1315	234.85	1668	240.30	144
219.05	680	226.95	32685	235.05	1591	240.80	324
219.60	118	227.85	1670	235.50	222	241.15	1338
219.80	228	228.10	2166	235.90	716	241.80	310

Average of 2.549 to 2.560 min.: 3m63390.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
242.05	2833	250.60	296	259.05	2978	270.00	395
243.00	3129	251.10	349	259.85	528	271.20	539
244.00	36427	251.75	446	260.80	99	272.10	1102
244.80	450	252.15	760	263.30	472	272.95	6125
245.05	4327	253.10	1623	263.75	384	274.00	15821
246.00	10007	253.60	379	265.00	6629	275.00	80397
246.95	1884	254.00	1616	265.85	707	276.00	9304
248.05	604	255.00	225208	266.20	369	277.05	10733
248.80	306	256.00	32150	267.00	122	277.85	1160
249.05	967	256.95	2909	268.00	168	279.00	357
249.95	372	258.00	15946	269.50	256	281.00	248

Average of 2.549 to 2.560 min.: 3m63390.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
281.20	88	288.70	112	296.95	4608	313.00	423
281.70	170	289.10	456	298.05	729	314.10	1417
282.05	308	289.80	156	300.95	798	315.00	3896
282.85	645	290.80	110	301.80	802	315.90	359
283.00	710	291.10	157	302.40	121	316.05	1576
283.20	536	292.05	657	302.95	4248	316.90	189
284.05	980	292.80	400	303.90	697	317.15	247
284.80	214	293.00	2156	304.10	569	319.20	206
285.05	1379	293.95	358	307.95	499	321.00	1196
286.05	588	294.85	947	309.20	122	321.60	126
287.90	137	296.00	36833	310.05	358	322.15	858

Average of 2.549 to 2.560 min.: 3m63390.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
323.00	9188	334.05	6780	352.70	82	372.05	5405
323.95	1601	334.95	1069	353.00	2582	373.00	1034
324.90	167	336.10	85	354.05	2549	374.05	191
326.00	162	340.00	160	355.10	415	376.80	113
326.95	1943	341.00	1378	356.05	147	382.70	589
328.05	1163	341.80	95	365.00	17502	383.05	951
328.90	102	342.30	92	366.00	2677	384.05	418
330.90	111	345.95	2848	366.80	94	384.90	115
331.80	139	347.05	667	367.25	299	390.10	242
332.10	608	351.10	142	369.70	84	390.80	264
333.00	1116	352.00	3562	370.90	836	391.10	239

Average of 2.549 to 2.560 min.: 3m63390.D\data.ms

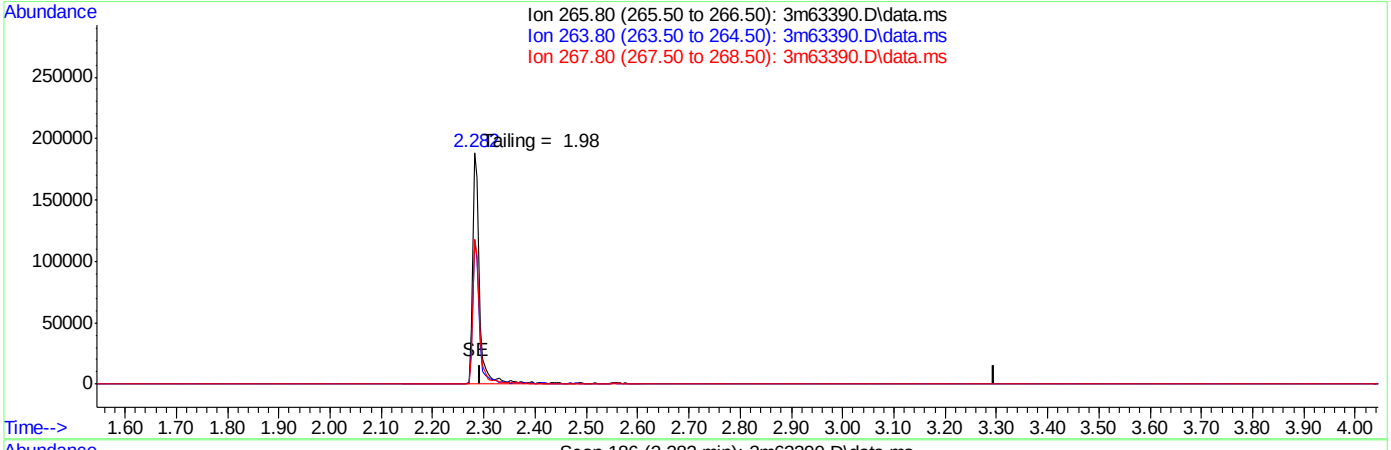
dftpp
Modified:subtracted

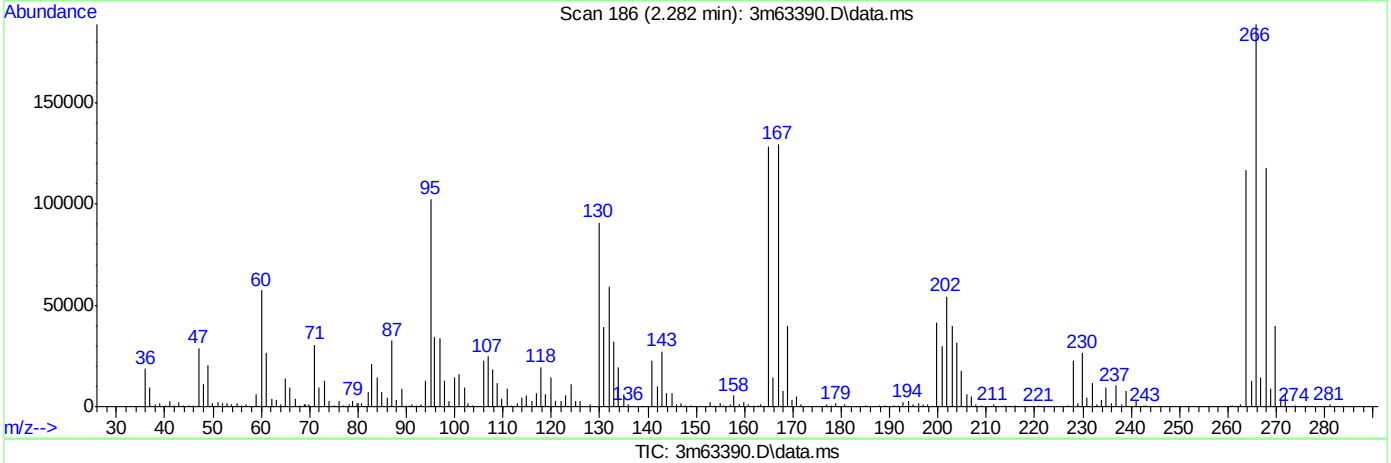
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
400.85	365	423.05	13179	436.15	394		
401.80	122	423.90	2607	436.90	231		
402.05	1903	425.00	392	437.45	428		
402.40	86	429.30	400	438.10	144		
403.00	2930	431.50	359	439.50	95		
403.70	150	432.30	81	441.05	35098		
403.95	771	432.60	113	442.00	214451		
405.20	170	433.40	314	443.00	40831		
420.80	112	435.00	242	444.00	3683		
421.10	2183	435.20	147	445.00	152		
422.05	2244	435.60	449				

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E3M3004\
Data File : 3m63390.D
Acq On : 2 Aug 2016 10:56 am
Operator : SHANICEG
Sample : dftpp
Misc : op95160a,e3m3004
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 02 11:01:00 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: 3m63390.D\data.ms

(1) Pentachlorophenol (t)

2.795min 0.00ppb d

response 0

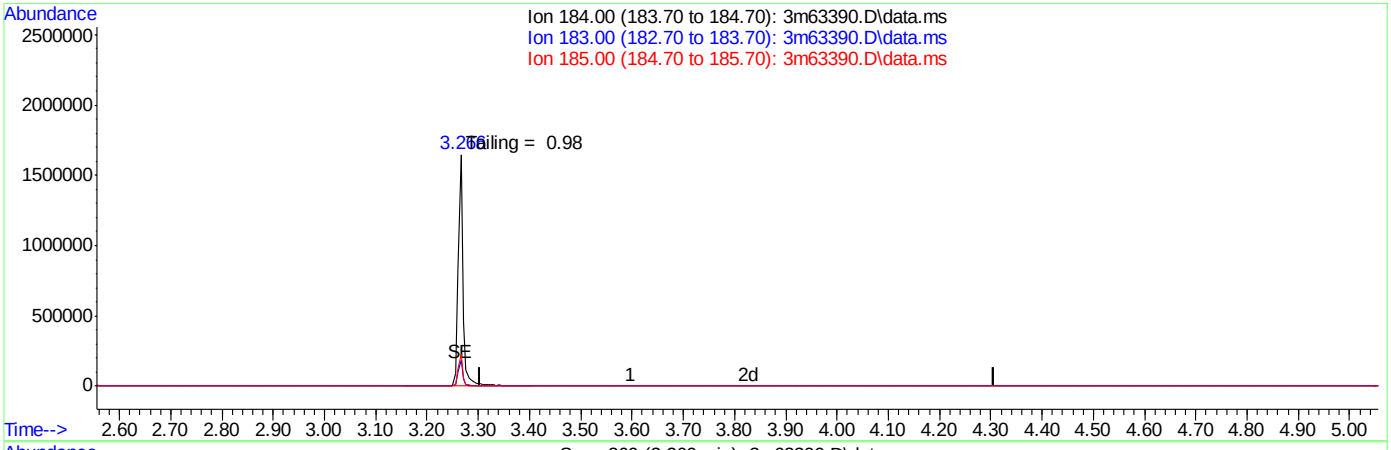
Ion	Exp%	Act%
265.80	100	0.00
263.80	62.80	0.00
267.80	64.10	0.00
0.00	0.00	0.00

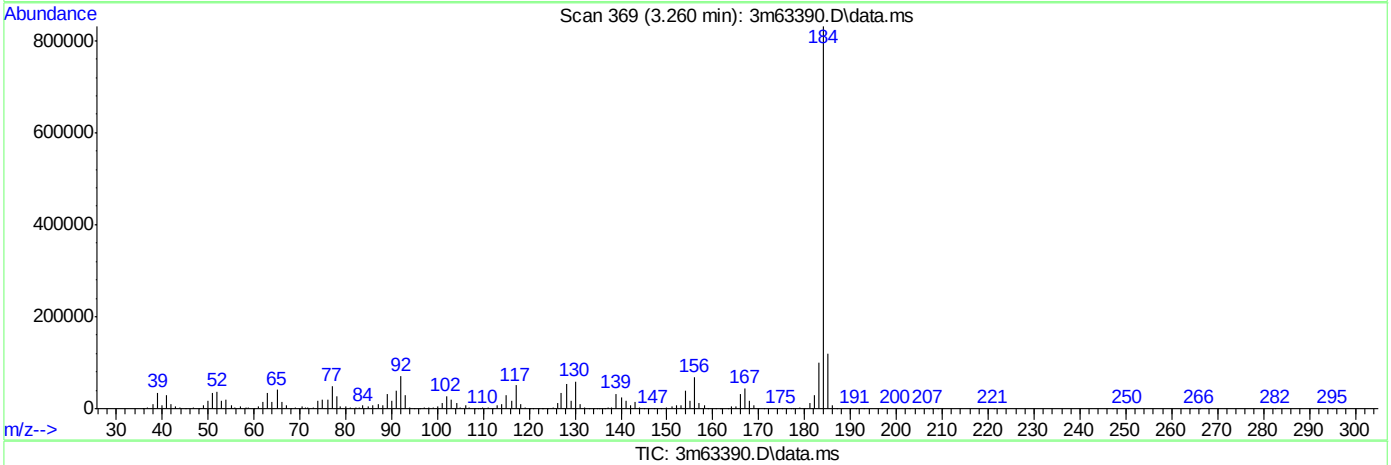
SGS ACCUTEST JC24978

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E3M3004\
Data File : 3m63390.D
Acq On : 2 Aug 2016 10:56 am
Operator : SHANICEG
Sample : dftpp
Misc : op95160a,e3m3004
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 02 11:01:00 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: 3m63390.D\data.ms

(2) Benzidine (t)

3.806min 0.00ppb d

response 0

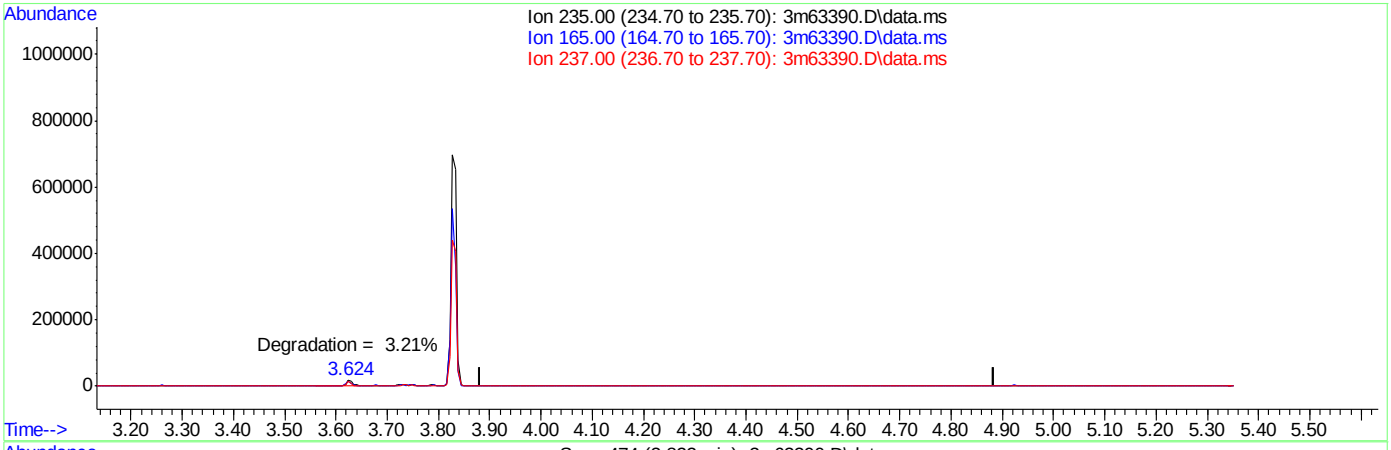
Ion	Exp%	Act%
184.00	100	0.00
183.00	11.50	0.00
185.00	14.40	0.00
0.00	0.00	0.00

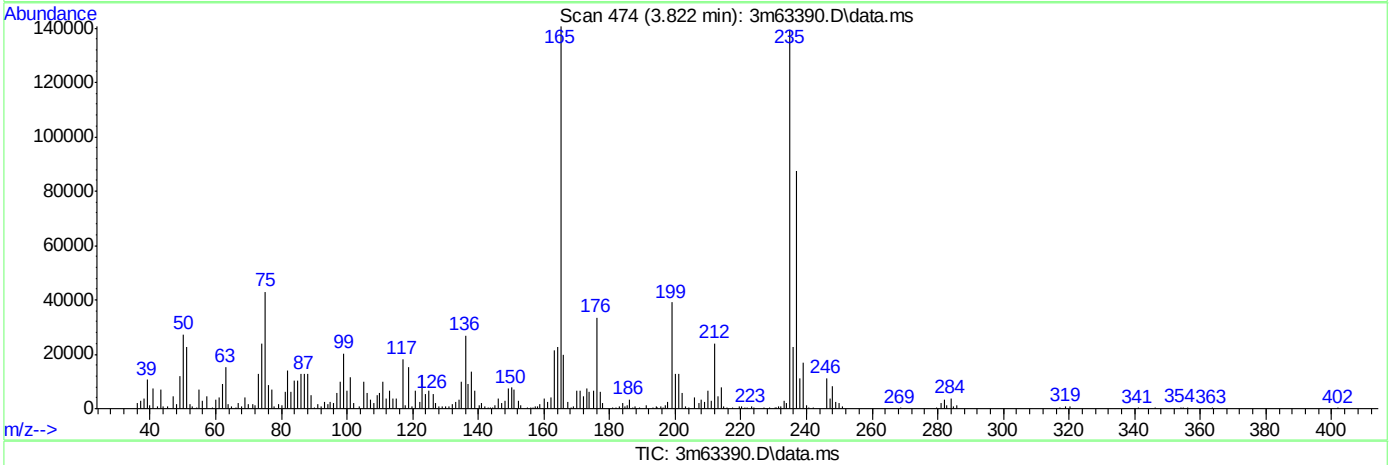
SGS ACCUTEST JC24978

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E3M3004\
Data File : 3m63390.D
Acq On : 2 Aug 2016 10:56 am
Operator : SHANICEG
Sample : dftpp
Misc : op95160a,e3m3004
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 02 11:01:00 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: 3m63390.D\data.ms

(3) PP-DDT (t)

4.384min (-4.384) 0.00ppb

response 0

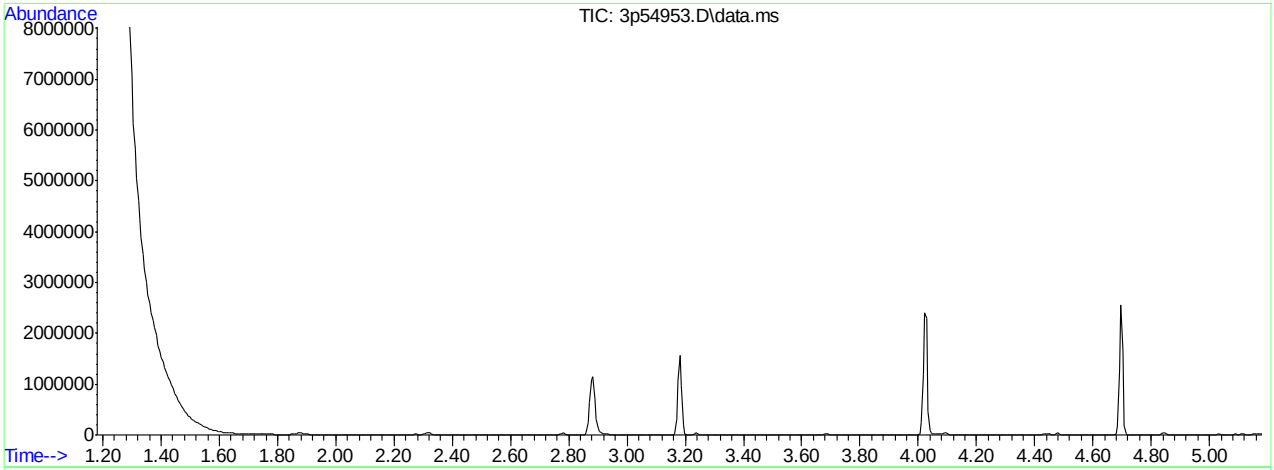
Ion	Exp%	Act%
235.00	100	0.00
165.00	0.00	0.00
237.00	0.00	0.00
0.00	0.00	0.00

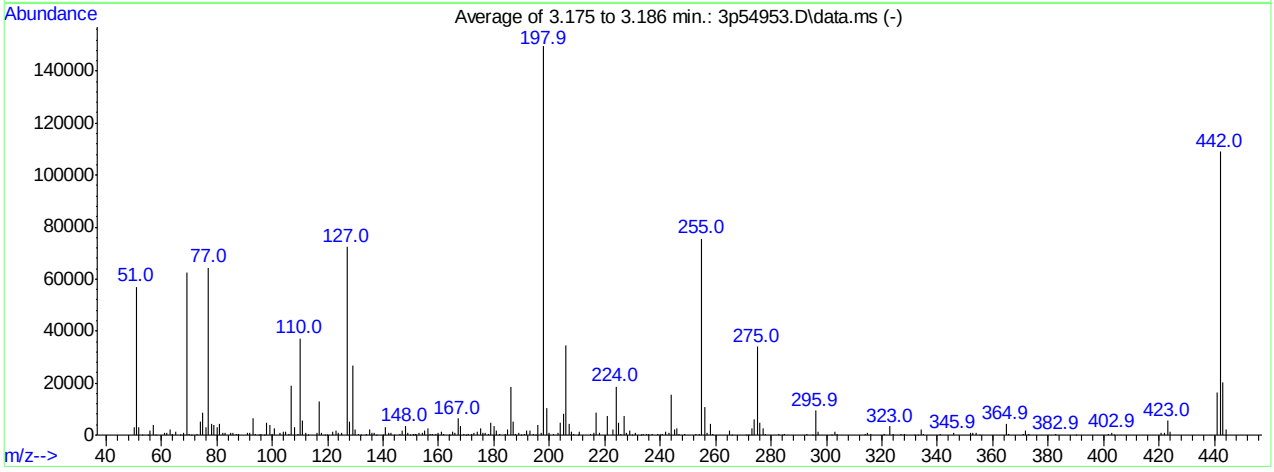
SGS ACCUTEST JC24978

DFTPP

Data File : C:\msdchem\1\data\E3P2503\3p54953.D Vial: 1
Acq On : 6 Jul 2016 9:12 am Operator: hankc
Sample : DFTPP Inst : MSGC3P
Misc : op94978,e3p2503 Multiplr: 1.00
MS Integration Params: events.e

Method : C:\MSDCHEM\1\METHODS\DFTPP3P.M (ChemStation Integrator)
Title : zebron ZB-5msi 30mx0.25mmx0.25um





AutoFind: Scans 330, 331, 332; Background Corrected with Scan 326

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	38.2	57126	PASS
68	69	0.00	2	1.7	1062	PASS
69	198	0.00	100	41.8	62449	PASS
70	69	0.00	2	0.6	387	PASS
127	198	40	60	48.4	72301	PASS
197	198	0.00	1	0.7	1015	PASS
198	198	100	100	100.0	149501	PASS
199	198	5	9	6.8	10162	PASS
275	198	10	30	22.7	33995	PASS
365	198	1	100	2.8	4170	PASS
441	443	0.01	100	81.6	16547	PASS
442	198	40	100	73.0	109091	PASS
443	442	17	23	18.6	20290	PASS

3p54953.D DFTPP3P.M Fri Jul 08 09:11:01 2016

Average of 3.175 to 3.186 min.: 3p54953.D\data.ms
DFTPP
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
50.00	2955	63.95	301	77.00	64389	90.95	1064
51.00	57126	65.00	1197	78.00	4401	92.00	940
52.00	3031	66.90	74	79.00	3741	93.00	6346
52.95	145	68.00	1062	80.00	2904	93.95	475
54.95	92	69.00	62449	81.00	4303	94.90	222
56.00	1681	70.00	387	82.00	1086	95.90	422
57.00	3969	70.90	73	82.95	981	97.00	225
57.95	174	73.00	326	84.95	857	98.00	4664
60.95	683	74.00	5251	85.90	913	99.00	4074
62.00	761	75.00	8784	86.95	629	99.95	407
63.00	2173	76.00	2955	87.85	294	100.95	2404

Average of 3.175 to 3.186 min.: 3p54953.D\data.ms
DFTPP
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
102.90	756	116.00	943	129.00	26797	141.95	1075
104.00	1459	117.00	13133	129.90	2257	142.95	764
104.95	1429	117.90	997	130.90	463	143.90	80
106.05	507	118.90	83	132.00	166	145.90	542
107.00	18956	119.95	178	133.95	652	146.95	1539
108.00	3037	121.95	1137	134.95	2002	148.00	3486
109.05	623	123.00	1852	135.90	861	148.90	761
110.00	37213	123.95	857	136.95	1076	149.90	217
111.00	5431	124.95	833	137.75	176	150.90	119
112.00	680	127.00	72301	139.90	222	151.05	269
113.00	184	128.00	5277	140.95	3070	151.60	82

Average of 3.175 to 3.186 min.: 3p54953.D\data.ms
DFTPP
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
151.80	232	163.80	77	174.00	1335	186.00	18693
152.95	922	164.00	80	175.00	2520	187.00	5103
154.00	697	164.95	1126	176.00	734	187.90	524
155.00	1821	166.00	1082	176.90	1042	188.90	1043
156.00	2805	167.00	6428	177.90	378	189.90	69
157.00	558	167.95	3248	178.90	4649	190.90	527
157.90	538	168.95	570	180.00	3249	191.95	1571
158.90	430	169.95	163	180.95	1558	192.95	1817
159.95	1002	170.90	256	181.90	307	194.00	342
160.95	1447	171.95	543	183.95	377	194.90	108
161.90	411	172.95	791	185.00	2330	195.95	4036

Average of 3.175 to 3.186 min.: 3p54953.D\data.ms
DFTPP
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
196.90	1015	208.90	341	225.95	440	239.00	281
197.90	149501	210.30	175	226.95	7494	239.90	183
198.90	10162	210.95	1352	227.95	999	240.85	402
199.95	720	214.90	343	228.90	1661	241.95	1113
201.35	657	216.00	706	229.90	183	243.00	1054
202.90	916	216.90	8848	230.95	689	244.00	15577
204.00	4963	217.90	1082	232.90	82	245.00	2075
205.00	8235	221.00	7477	233.90	525	245.95	2728
206.00	34419	222.95	2104	234.90	539	246.90	605
206.95	4313	224.00	18613	235.85	386	248.90	487
207.90	1104	225.00	4589	236.95	626	252.85	359

Average of 3.175 to 3.186 min.: 3p54953.D\data.ms
DFTPP
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
253.95	534	273.95	6191	296.90	1394	327.90	335
255.00	75555	275.00	33995	302.00	75	331.90	126
256.00	10922	276.00	4787	303.00	1110	332.95	230
256.90	917	276.95	2683	303.85	294	334.00	1982

DFTPP3P.M Fri Jul 08 09:10:38 2016 Page: 0

257.95	4171	277.85	452	313.90	461	334.90	539
258.90	640	282.95	373	314.90	1058	340.95	414
264.95	1632	283.90	111	315.95	528	345.90	763
265.80	87	284.95	500	320.95	344	351.95	913
270.90	89	292.95	628	323.00	3263	352.95	698
271.90	86	294.90	78	324.00	600	353.95	915
272.95	2479	295.95	9348	326.90	607	355.00	102

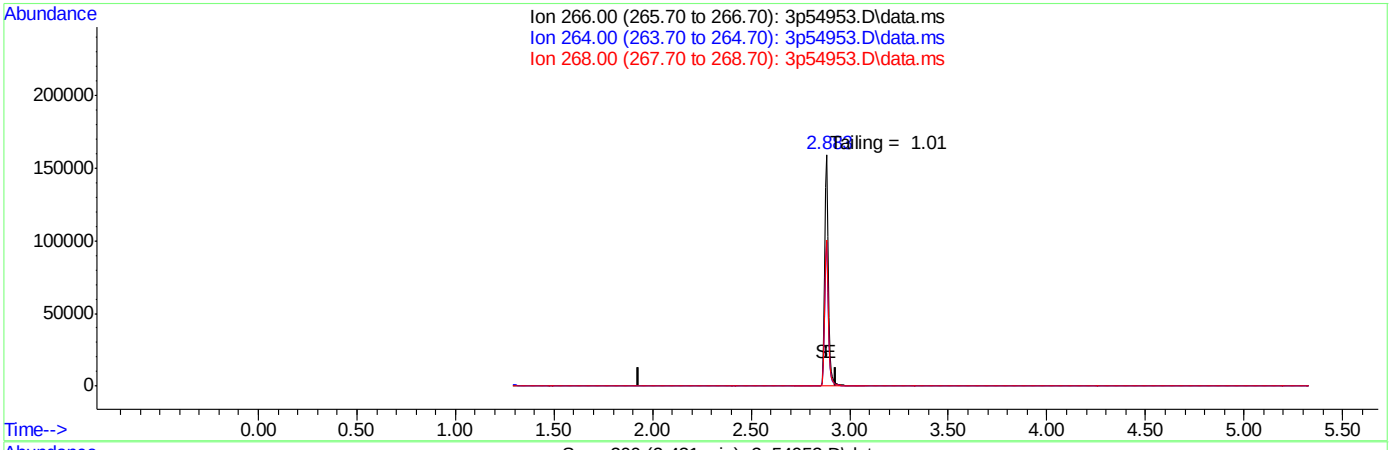
Average of 3.175 to 3.186 min.: 3p54953.D\data.ms
DFTPP
Modified:subtracted

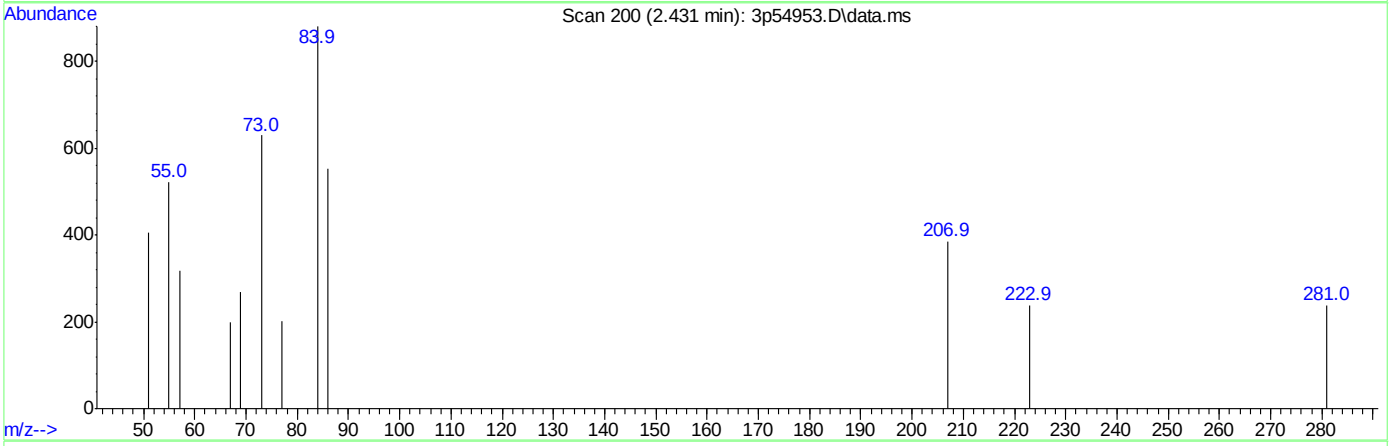
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
364.90	4170	421.95	702				
365.90	597	423.00	5541				
370.90	237	424.00	1113				
371.95	1727	441.00	16547				
372.90	423	442.00	109091				
382.90	397	443.00	20290				
389.90	210	444.00	2003				
401.85	620						
402.95	941						
403.90	227						
420.90	854						

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\E3P2503\
Data File : 3p54953.D
Acq On : 6 Jul 2016 9:12 am
Operator : hankc
Sample : DFTPP
Misc : op94978,e3p2503
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 06 09:18:24 2016
Quant Method : C:\MSDCHEM\1\METHODS\DFTPP3P.M
Quant Title : zebron ZB-5msi 30mx0.25mmx0.25um
QLast Update : Wed Mar 02 08:34:25 2016
Response via : Initial Calibration





TIC: 3p54953.D\data.ms

(1) Pentachlorophenol

2.431min (-2.431) 0.00

response 0

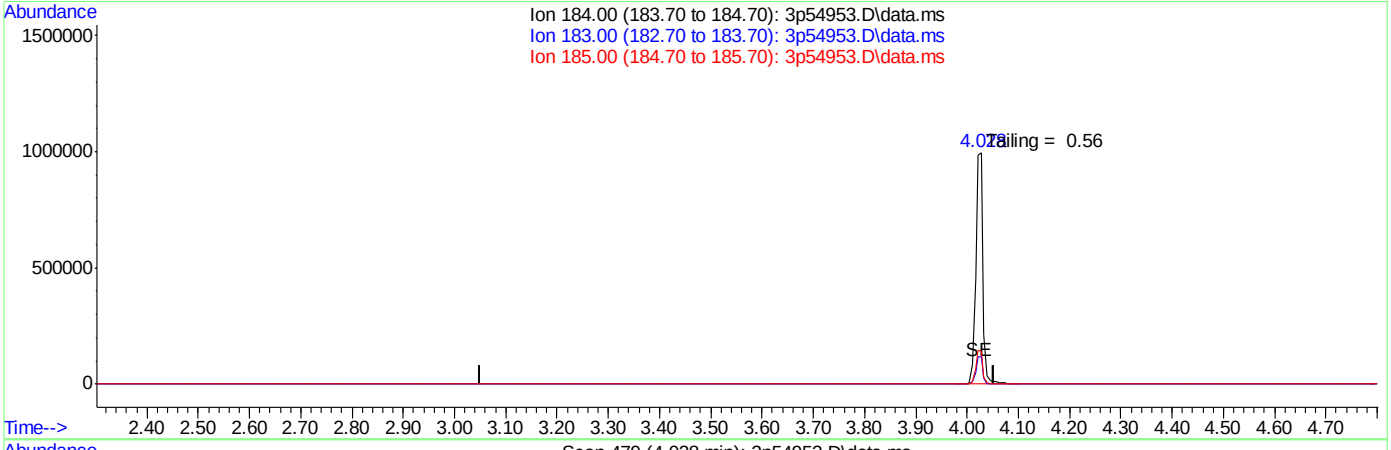
Ion	Exp%	Act%
266.00	100	0.00
264.00	0.00	0.00
268.00	0.00	0.00
0.00	0.00	0.00

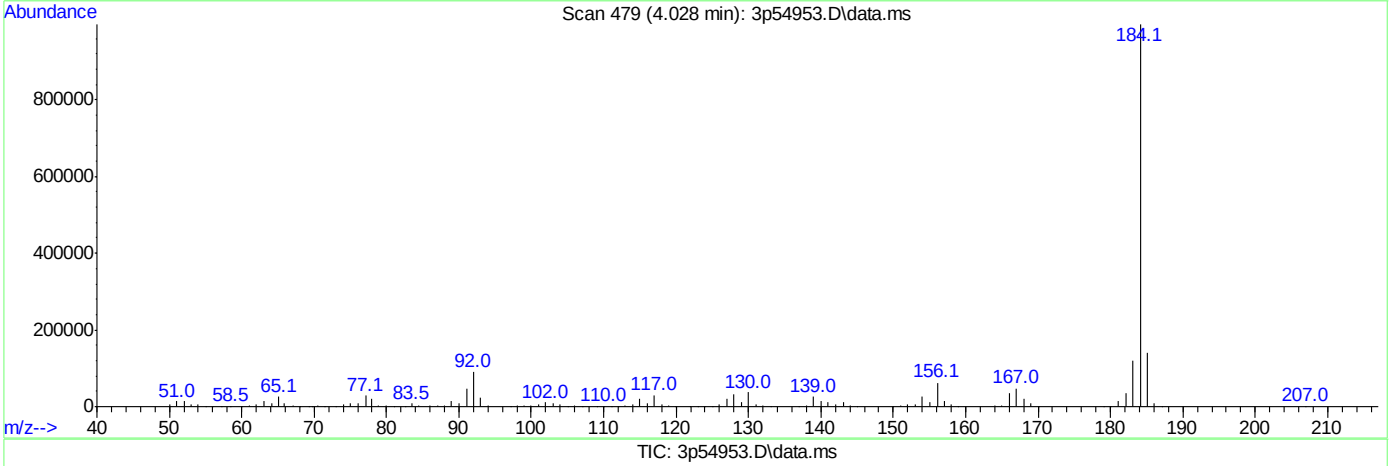
SGS ACCUTEST JC24978

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\E3P2503\
Data File : 3p54953.D
Acq On : 6 Jul 2016 9:12 am
Operator : hankc
Sample : DFTPP
Misc : op94978,e3p2503
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 06 09:18:24 2016
Quant Method : C:\MSDCHEM\1\METHODS\DFTPP3P.M
Quant Title : zebron ZB-5msi 30mx0.25mmx0.25um
QLast Update : Wed Mar 02 08:34:25 2016
Response via : Initial Calibration





TIC: 3p54953.D\data.ms

(2) Benzidine

3.552min (-3.552) 0.00

response 0

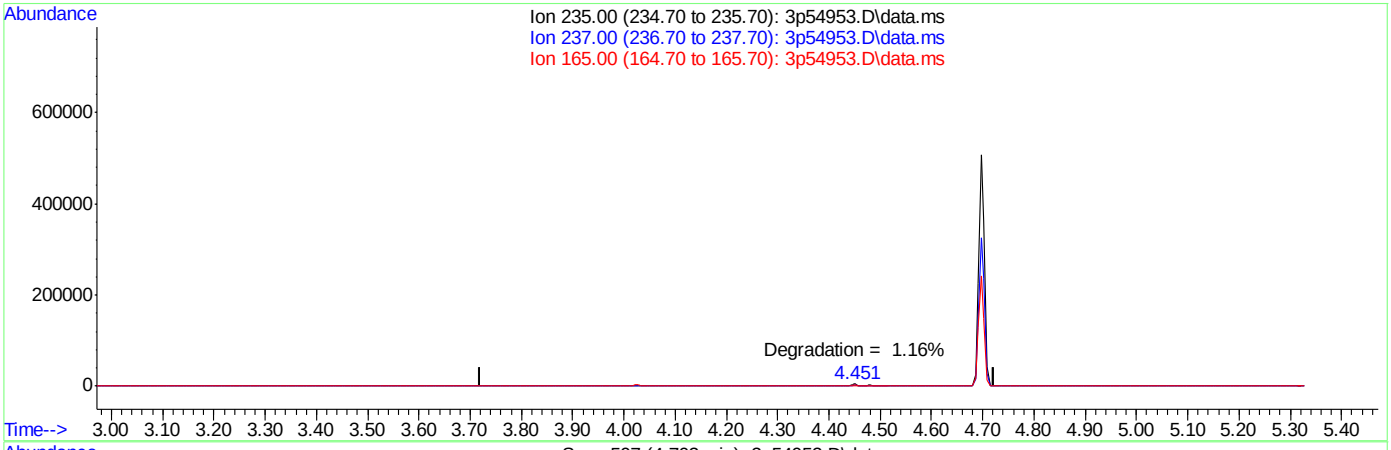
Ion	Exp%	Act%
184.00	100	0.00
183.00	0.00	0.00
185.00	0.00	0.00
0.00	0.00	0.00

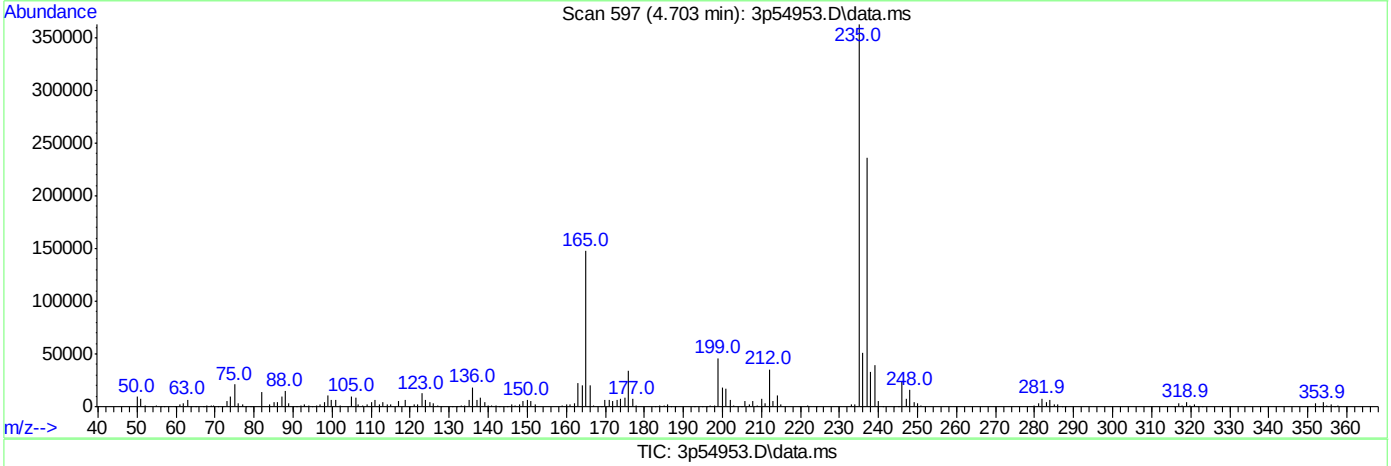
SGS ACCUTEST JC24978

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\E3P2503\
Data File : 3p54953.D
Acq On : 6 Jul 2016 9:12 am
Operator : hankc
Sample : DFTPP
Misc : op94978,e3p2503
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 06 09:18:24 2016
Quant Method : C:\MSDCHEM\1\METHODS\DFTPP3P.M
Quant Title : zebron ZB-5msi 30mx0.25mmx0.25um
QLast Update : Wed Mar 02 08:34:25 2016
Response via : Initial Calibration





TIC: 3p54953.D\data.ms

(3) PP-DDT

4.222min (-4.222) 0.00

response 0

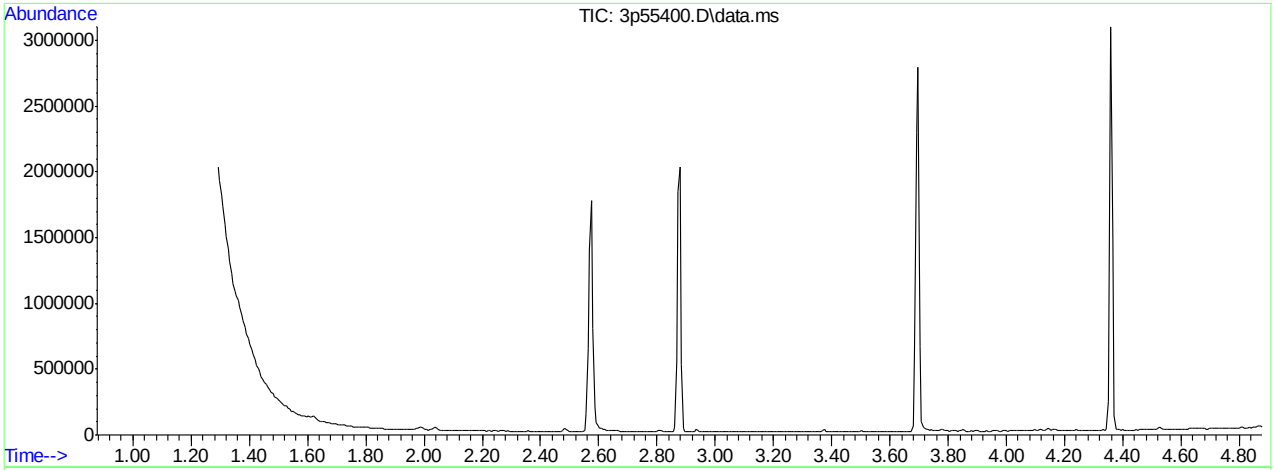
Ion	Exp%	Act%
235.00	100	0.00
237.00	0.00	0.00
165.00	0.00	0.00
0.00	0.00	0.00

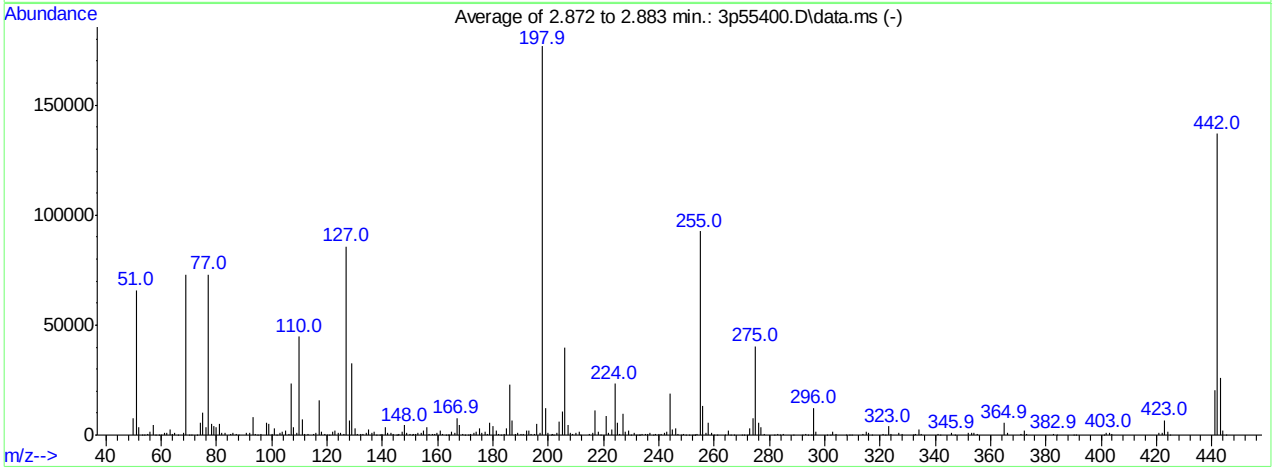
SGS ACCUTEST JC24978

DFTPP

Data File : C:\msdchem\1\data\E3P2534\3p55400.D Vial: 1
Acq On : 2 Aug 2016 8:55 am Operator: ashleyd
Sample : dftpp Inst : MSGC3P
Misc : op95837a,e3p2534 Multiplr: 1.00
MS Integration Params: events.e

Method : C:\MSDCHEM\1\METHODS\DFTPP3P.M (ChemStation Integrator)
Title : zebron ZB-5msi 30mx0.25mmx0.25um





AutoFind: Scans 277, 278, 279; Background Corrected with Scan 272

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	37.2	65780	PASS
68	69	0.00	2	1.1	834	PASS
69	198	0.00	100	41.1	72656	PASS
70	69	0.00	2	0.3	253	PASS
127	198	40	60	48.6	85875	PASS
197	198	0.00	1	0.7	1192	PASS
198	198	100	100	100.0	176699	PASS
199	198	5	9	6.8	12012	PASS
275	198	10	30	22.9	40499	PASS
365	198	1	100	3.1	5432	PASS
441	443	0.01	100	78.8	20462	PASS
442	198	40	100	77.6	137056	PASS
443	442	17	23	19.0	25979	PASS

3p55400.D DFTPP3P.M Tue Aug 02 12:11:08 2016

Average of 2.872 to 2.883 min.: 3p55400.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
50.00	7782	61.00	819	73.95	5736	85.90	1020
51.00	65780	62.00	914	75.00	10205	86.95	772
52.00	3477	63.00	2354	76.00	3388	87.90	160
52.95	162	63.95	373	77.00	72911	90.95	1075
53.90	170	64.95	1194	78.00	5007	92.00	1247
55.00	345	65.95	177	78.95	4268	93.00	8026
56.00	1580	68.00	834	80.00	3580	93.95	688
57.00	4752	69.00	72656	81.00	5059	94.95	41
57.95	30	70.05	253	82.00	1039	95.90	350
59.00	161	71.00	110	83.00	1115	98.00	5420
59.95	19	73.00	172	84.90	658	99.00	5076

Average of 2.872 to 2.883 min.: 3p55400.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
99.95	460	111.00	6906	123.00	2101	134.00	855
101.00	3100	112.00	752	123.90	1077	135.00	2422
101.90	211	113.00	365	124.95	1111	136.00	998
103.00	959	115.00	328	126.10	644	137.00	1393
103.90	1689	116.00	914	127.00	85875	138.00	241
105.00	1915	117.00	15948	128.00	6446	138.90	160
106.00	652	117.95	1360	128.95	32722	140.00	308
107.00	23354	119.00	354	129.95	2903	141.00	3644
108.00	3720	119.90	256	130.95	751	142.00	1190
109.00	785	120.90	258	132.00	327	142.90	1015
110.00	44750	121.95	1435	133.00	341	143.95	282

Average of 2.872 to 2.883 min.: 3p55400.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
144.95	258	153.95	1049	164.00	123	175.00	3098
145.70	67	155.00	2278	164.90	1296	175.95	1010
145.95	544	156.00	3381	166.00	1085	177.00	1513
146.95	1698	157.00	699	166.90	7693	177.90	434
148.00	4390	157.90	661	168.00	4367	178.95	5854
148.90	967	158.95	522	169.00	755	180.00	4330
150.00	330	159.90	1176	169.90	225	181.00	2066
150.80	69	160.95	1892	170.90	246	182.00	430
151.05	469	161.90	466	171.90	702	182.90	88
151.90	356	163.05	178	172.95	898	183.95	412
152.90	1204	163.70	98	174.00	1682	185.00	3074

Average of 2.872 to 2.883 min.: 3p55400.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
186.00	22790	197.00	1192	206.95	4605	221.00	8491
187.00	6417	197.90	176699	207.95	1161	221.70	1046
188.00	601	198.95	12012	208.95	551	222.95	2507
188.95	1138	200.00	879	210.15	807	224.00	23274
189.95	278	201.20	68	211.00	1679	225.00	5686
191.00	741	201.45	735	211.60	85	225.95	641
191.95	2025	201.70	80	215.00	488	227.00	9850
192.90	1869	203.00	1131	215.95	929	227.90	1387
193.95	390	204.00	5946	216.90	11084	229.00	1937
194.95	296	205.00	10519	218.00	1440	229.90	254
195.95	4879	206.00	39809	219.00	92	230.95	791

Average of 2.872 to 2.883 min.: 3p55400.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
232.00	76	242.00	1197	252.80	116	264.95	2099
232.70	98	243.00	1302	253.00	256	265.85	198
233.00	98	244.00	18787	253.95	591	267.00	77
233.90	553	245.00	2586	255.00	92531	269.80	77

DFTPP3P.M Tue Aug 02 12:11:04 2016 Page: 0

234.95	699	246.00	3285	255.95	13420	270.95	160
235.90	456	246.90	588	256.95	1112	271.95	254
236.90	839	247.90	76	258.00	5394	272.95	2955
237.90	74	248.90	710	258.90	868	273.95	7533
238.90	303	249.90	74	259.90	70	275.00	40499
239.95	301	251.00	75	260.90	77	276.00	5559
240.95	548	252.05	194	263.80	222	277.00	3581

Average of 2.872 to 2.883 min.: 3p55400.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
277.90	597	296.95	1690	316.90	68	335.00	562
281.90	85	300.90	180	320.90	461	340.90	550
283.00	444	301.95	159	321.95	202	341.90	72
283.90	229	303.00	1435	323.00	4020	345.90	965
284.95	614	303.95	387	323.95	780	346.85	191
288.80	85	307.90	71	326.95	863	352.00	1282
291.90	86	308.90	69	327.95	334	352.95	868
293.00	782	309.90	75	331.90	129	354.00	1151
293.95	184	313.90	626	332.05	197	354.95	303
295.00	256	314.90	1381	333.00	287	364.95	5432
296.00	12332	315.95	788	334.00	2641	365.90	906

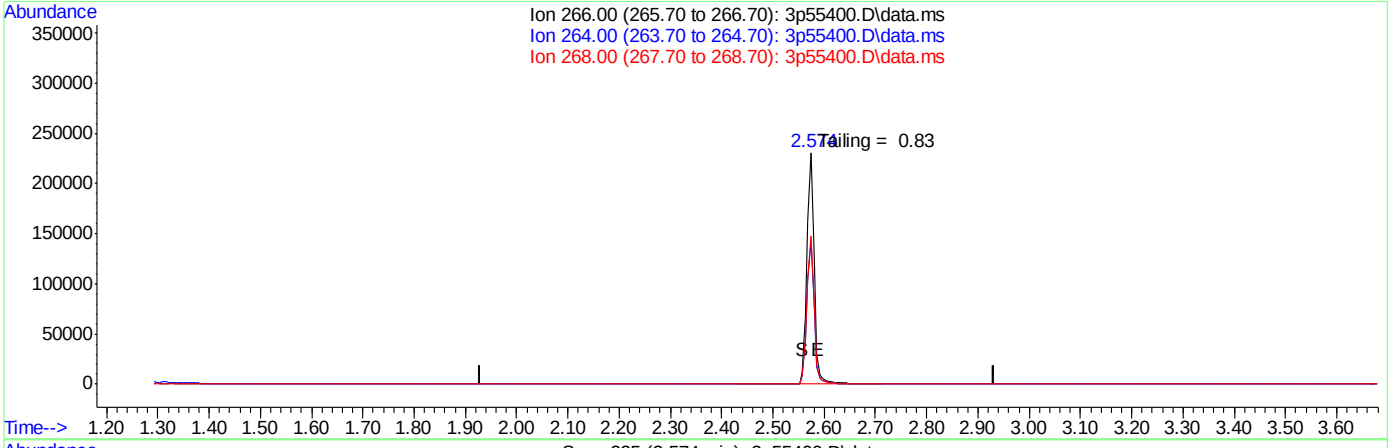
Average of 2.872 to 2.883 min.: 3p55400.D\data.ms
dftpp
Modified:subtracted

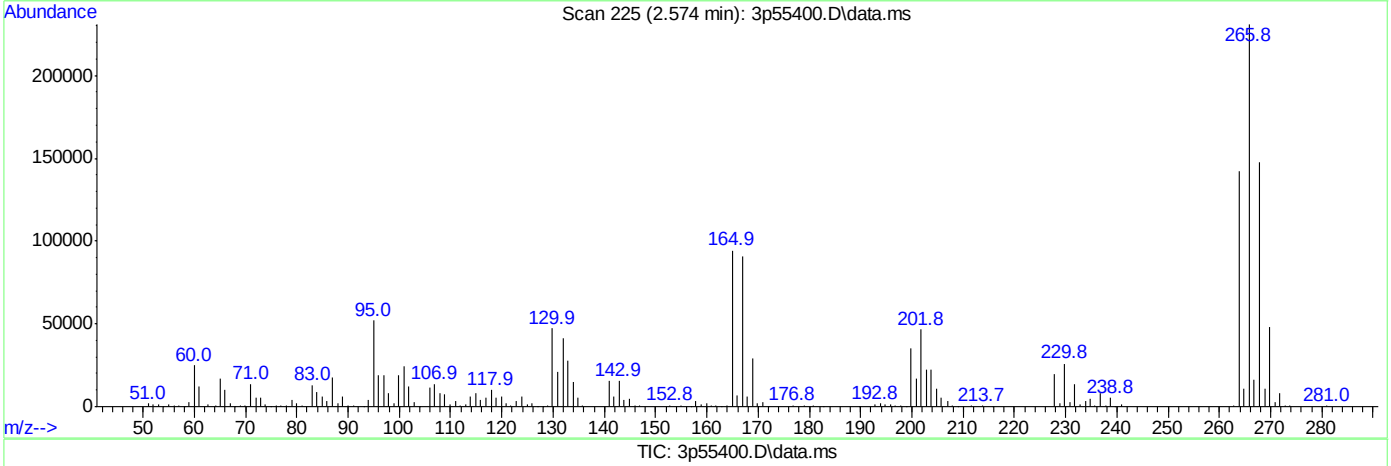
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
370.95	305	420.95	1026				
372.00	2201	421.95	962				
373.00	514	423.00	6807				
382.90	546	424.00	1773				
383.90	78	425.00	85				
389.90	240	441.00	20462				
390.90	89	442.00	137056				
401.00	89	443.00	25979				
401.95	810	444.00	2201				
403.00	1162	445.00	88				
403.95	569						

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\E3P2534\
Data File : 3p55400.D
Acq On : 2 Aug 2016 8:55 am
Operator : ashleyd
Sample : dftpp
Misc : op95837a,e3p2534
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 02 09:00:59 2016
Quant Method : C:\MSDCHEM\1\METHODS\DFTPP3P.M
Quant Title : zebron ZB-5msi 30mx0.25mmx0.25um
QLast Update : Wed Mar 02 08:34:25 2016
Response via : Initial Calibration





TIC: 3p55400.D\data.ms

(1) Pentachlorophenol

2.431min (-2.431) 0.00

response 0

Ion	Exp%	Act%
266.00	100	0.00
264.00	0.00	0.00
268.00	0.00	0.00
0.00	0.00	0.00

7.5.11.1

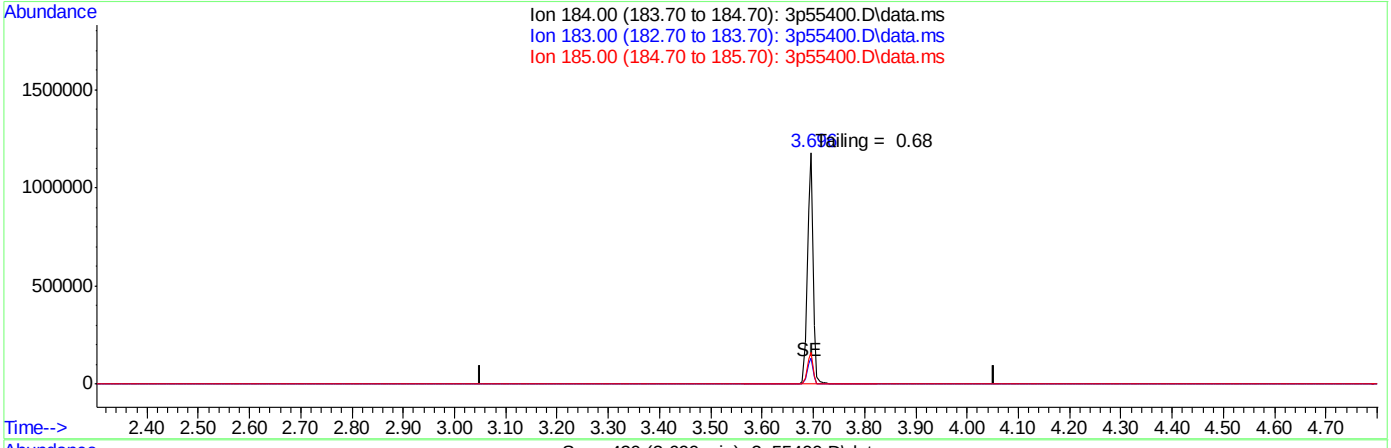
7

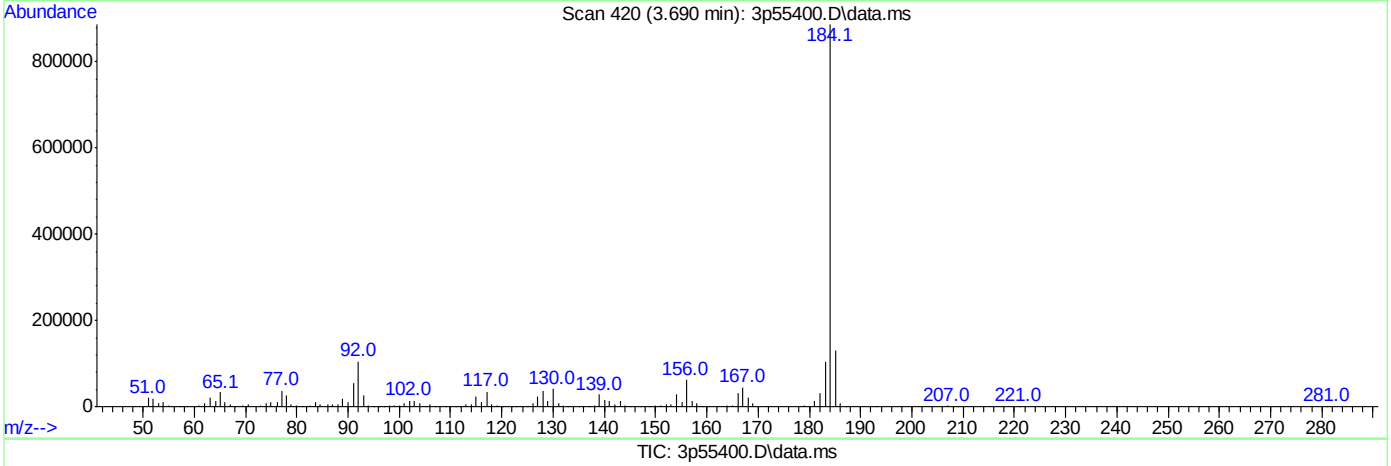
SGS ACCUTEST JC24978

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\E3P2534\
Data File : 3p55400.D
Acq On : 2 Aug 2016 8:55 am
Operator : ashleyd
Sample : dftpp
Misc : op95837a,e3p2534
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 02 09:00:59 2016
Quant Method : C:\MSDCHEM\1\METHODS\DFTPP3P.M
Quant Title : zebron ZB-5msi 30mx0.25mmx0.25um
QLast Update : Wed Mar 02 08:34:25 2016
Response via : Initial Calibration





TIC: 3p55400.D\data.ms

(2) Benzidine

3.552min (-3.552) 0.00

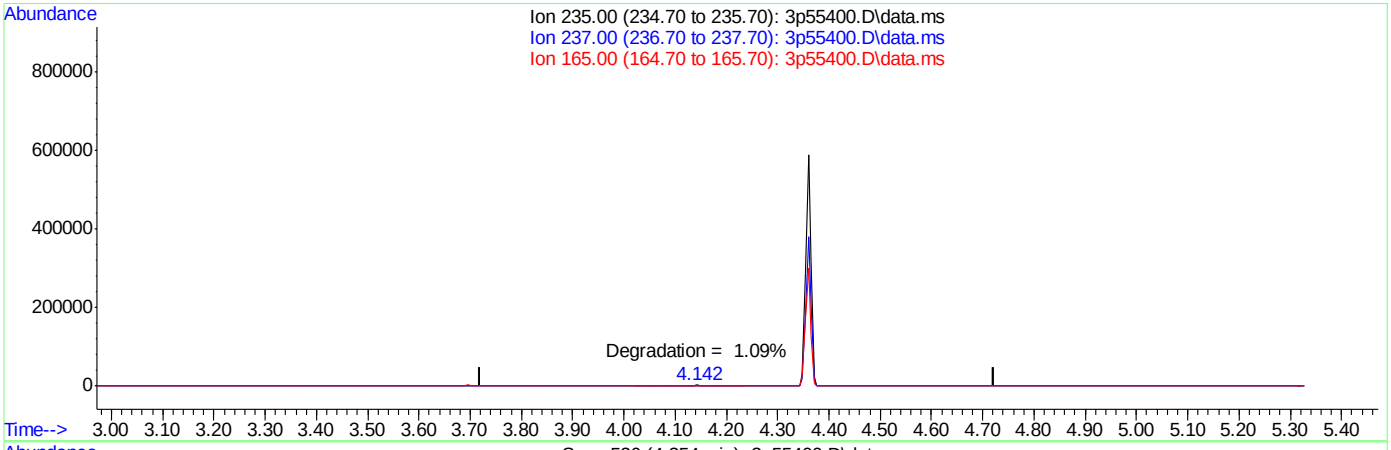
response 0

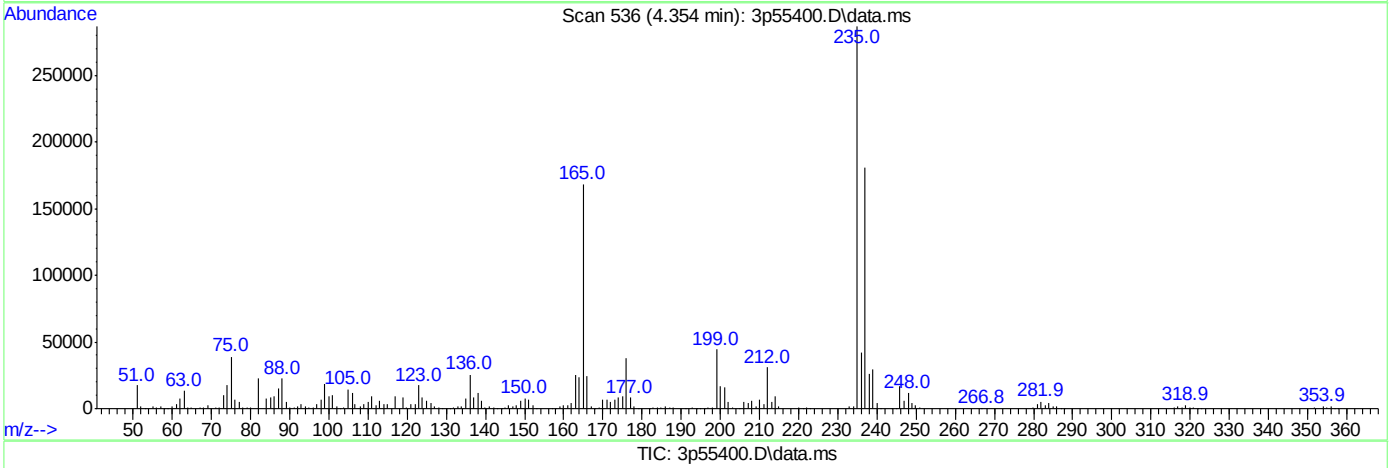
Ion	Exp%	Act%
184.00	100	0.00
183.00	0.00	0.00
185.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\E3P2534\
Data File : 3p55400.D
Acq On    :  2 Aug 2016   8:55 am
Operator  : ashleyd
Sample    : dftpp
Misc      : op95837a,e3p2534
ALS Vial  : 1   Sample Multiplier: 1

Quant Time: Aug 02 09:00:59 2016
Quant Method : C:\MSDCHEM\1\METHODS\DFTPP3P.M
Quant Title  : zebron ZB-5msi 30mx0.25mmx0.25um
QLast Update : Wed Mar 02 08:34:25 2016
Response via : Initial Calibration
```





(3) PP-DDT

4.222min (-4.222) 0.00

response 0

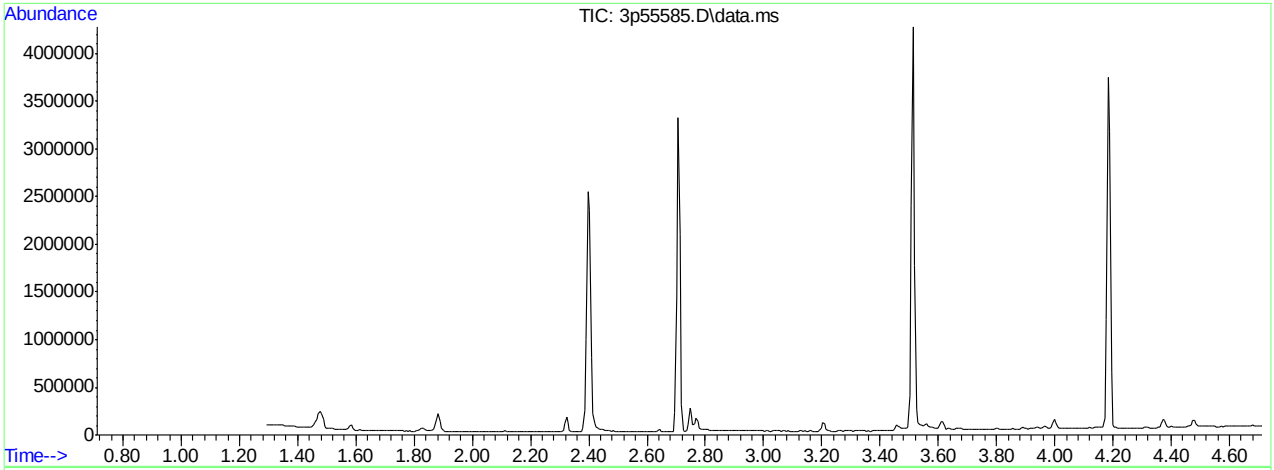
Ion	Exp%	Act%
235.00	100	0.00
237.00	0.00	0.00
165.00	0.00	0.00
0.00	0.00	0.00

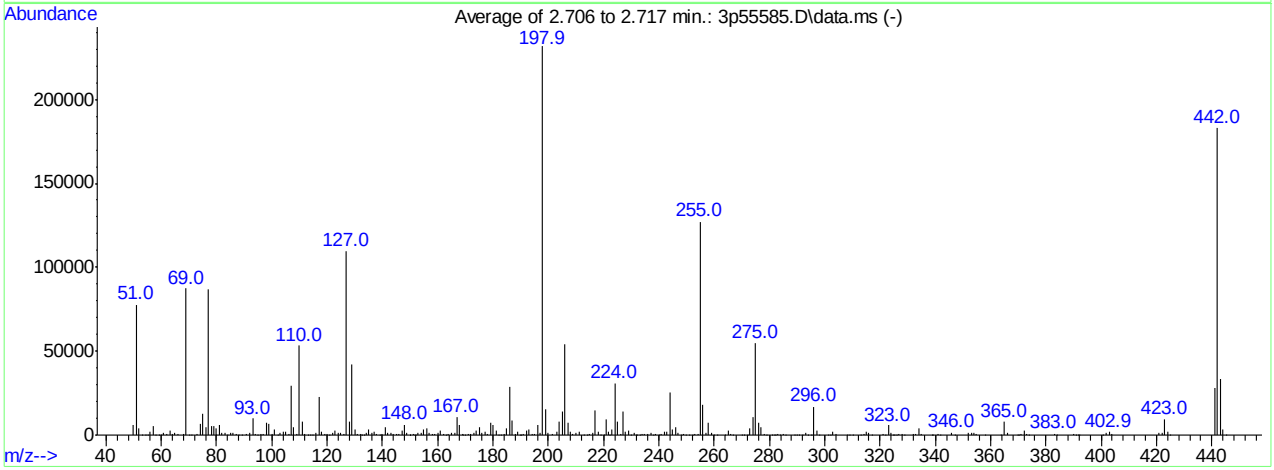
SGS ACCUTEST JC24978

DFTPP

Data File : C:\msdchem\1\data\E3P2546\3p55585.D Vial: 1
Acq On : 9 Aug 2016 2:26 pm Operator: ashleyd
Sample : DFTPP Inst : MSGC3P
Misc : op95964a,e3p2546 Multiplr: 1.00
MS Integration Params: events.e

Method : C:\MSDCHEM\1\METHODS\DFTPP3P.M (ChemStation Integrator)
Title : zebron ZB-5msi 30mx0.25mmx0.25um





AutoFind: Scans 248, 249, 250; Background Corrected with Scan 242

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	33.5	77656	PASS
68	69	0.00	2	1.1	951	PASS
69	198	0.00	100	37.7	87351	PASS
70	69	0.00	2	0.4	331	PASS
127	198	40	60	47.4	109705	PASS
197	198	0.00	1	0.5	1219	PASS
198	198	100	100	100.0	231597	PASS
199	198	5	9	6.5	15096	PASS
275	198	10	30	23.8	55130	PASS
365	198	1	100	3.4	7983	PASS
441	443	0.01	100	83.5	27961	PASS
442	198	40	100	79.0	182904	PASS
443	442	17	23	18.3	33479	PASS

3p55585.D DFTPP3P.M Tue Aug 09 16:44:19 2016

Average of 2.706 to 2.717 min.: 3p55585.D\data.ms
DFTPP
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
50.00	5776	60.95	1152	74.00	6705	83.95	213
51.00	77656	62.00	939	75.00	12396	84.95	1033
52.00	3947	63.00	2817	76.00	4387	86.00	1483
53.00	76	64.00	504	77.00	86794	86.95	961
54.15	286	65.00	1487	78.00	5130	87.90	337
55.05	286	66.00	372	79.00	5067	89.00	153
55.95	2351	68.00	951	79.70	114	90.95	799
57.00	5224	69.00	87351	80.00	4354	91.95	1292
57.90	185	70.00	331	81.00	6340	93.00	9757
59.10	192	71.00	55	82.00	1348	93.95	593
59.95	143	73.00	872	83.00	1251	95.00	110

Average of 2.706 to 2.717 min.: 3p55585.D\data.ms
DFTPP
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
95.95	515	107.00	29102	118.00	1765	128.95	41934
96.95	409	108.00	4722	119.00	401	129.95	3245
98.00	7075	109.00	729	119.95	405	131.00	945
99.00	6380	110.00	53425	120.90	73	131.95	423
100.00	619	111.00	8246	121.95	1630	132.70	85
100.90	3661	111.95	817	123.00	2608	133.20	80
101.95	312	112.95	131	123.95	1296	134.00	1028
102.90	1059	113.90	71	124.95	1469	135.00	3125
103.95	2290	114.80	212	126.05	499	136.00	1369
104.95	2135	116.00	1446	127.00	109705	137.00	1916
106.05	876	116.95	23066	127.95	7926	137.95	469

Average of 2.706 to 2.717 min.: 3p55585.D\data.ms
DFTPP
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
139.05	285	149.90	85	158.90	714	169.20	80
140.00	490	150.10	155	160.00	1629	169.95	313
140.90	4808	151.05	737	161.00	2801	170.90	437
142.05	1619	151.70	337	162.00	831	171.90	956
142.95	1105	151.95	307	162.95	217	173.00	1304
144.00	466	152.95	1592	163.90	375	173.95	2360
144.95	373	154.00	1118	164.90	1613	175.00	4661
146.05	813	155.00	3244	166.00	1514	175.90	1424
147.00	2486	156.00	4276	167.00	10758	176.95	1719
148.00	6244	156.95	1130	167.95	6348	178.00	750
148.95	1301	157.95	845	169.00	1021	179.00	7627

Average of 2.706 to 2.717 min.: 3p55585.D\data.ms
DFTPP
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
180.00	5930	190.00	87	201.35	908	213.90	77
181.00	2851	190.90	714	202.95	1704	215.00	749
181.95	188	192.00	2900	204.00	8213	215.95	1420
182.70	254	193.00	3119	205.00	13993	216.90	14885
183.95	626	194.05	547	206.00	54002	217.95	1951
185.00	3961	194.90	530	207.00	7255	218.90	140
186.00	28657	196.00	5770	208.00	1881	220.10	301
187.00	8860	197.00	1219	208.90	628	220.95	9494
187.95	819	197.90	231597	210.15	1102	221.80	2126
188.90	2018	198.90	15096	211.00	2322	222.00	72
189.80	194	199.95	1262	212.95	241	222.95	3463

Average of 2.706 to 2.717 min.: 3p55585.D\data.ms
DFTPP
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
224.00	30944	233.90	770	245.00	3142	256.00	18372
225.00	7898	234.90	721	246.00	4973	257.00	1412
226.00	663	236.00	681	247.00	1063	257.95	7167
227.00	13768	236.95	1076	247.95	235	258.90	1150

M3P2503SIM.M Tue Aug 09 16:32:43 2016 Page: 0

227.95	1819	238.00	129	249.00	833	260.00	229
228.95	2623	238.90	463	249.90	232	260.95	193
229.90	289	239.90	345	250.85	210	263.80	72
231.00	1152	240.95	602	252.10	279	264.95	2927
231.70	100	242.00	1853	252.95	602	265.90	784
232.00	133	243.00	1742	254.00	921	266.85	161
233.00	182	244.00	25333	255.00	127099	269.90	113

Average of 2.706 to 2.717 min.: 3p55585.D\data.ms
DFTPP
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
270.95	283	282.00	235	295.00	343	312.90	77
271.95	321	283.05	739	296.00	16884	314.00	894
272.95	4020	283.95	357	297.00	2418	314.95	1849
274.00	10614	285.00	954	297.90	70	316.00	1165
275.00	55130	285.90	185	301.05	179	316.90	73
276.00	7378	288.85	174	301.95	236	320.95	474
276.95	4727	289.85	186	302.95	2159	321.90	213
277.95	915	290.80	74	304.00	495	323.00	5741
278.90	81	291.95	182	308.00	181	324.00	1074
281.00	227	292.95	1379	308.90	92	324.80	71
281.80	82	294.05	316	309.95	301	325.10	112

Average of 2.706 to 2.717 min.: 3p55585.D\data.ms
DFTPP
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
326.00	79	341.90	229	369.80	82	391.90	81
326.95	961	346.00	1583	370.00	78	400.75	193
327.90	571	346.85	217	370.90	418	401.95	1208
328.90	102	351.95	1582	372.00	2777	402.95	1793
331.90	412	353.00	1179	372.95	508	403.85	566
333.00	516	354.00	1603	373.95	143	420.95	1327
334.00	3769	354.90	370	383.00	828	422.00	1220
334.95	988	358.10	78	384.05	264	423.00	9630
338.80	93	363.80	68	390.00	413	424.05	2143
339.10	76	365.00	7983	391.00	315	425.00	180
340.95	732	366.00	1406	391.70	68	441.00	27961

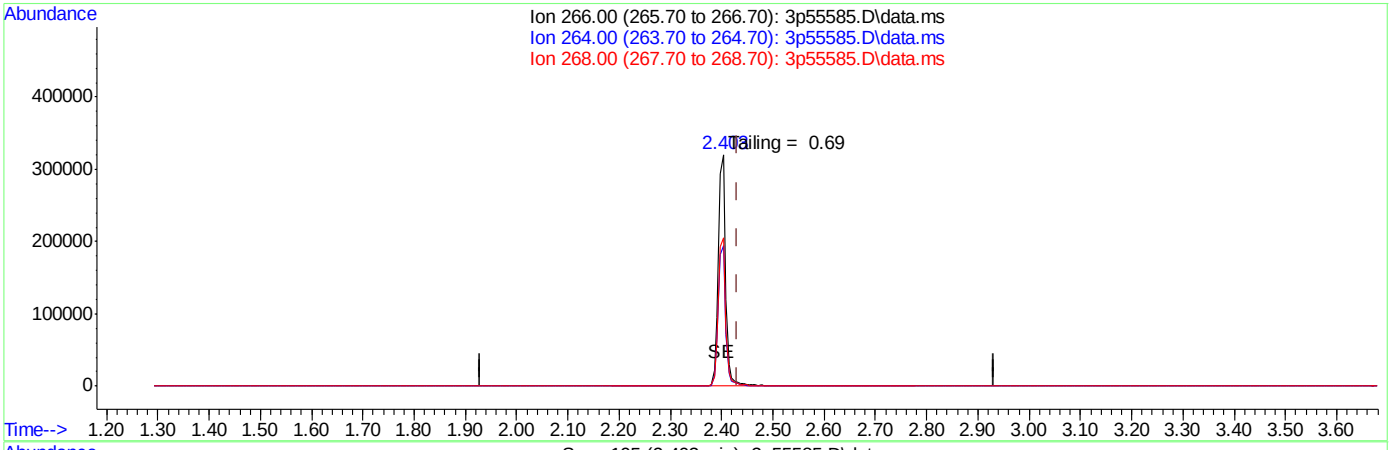
Average of 2.706 to 2.717 min.: 3p55585.D\data.ms
DFTPP
Modified:subtracted

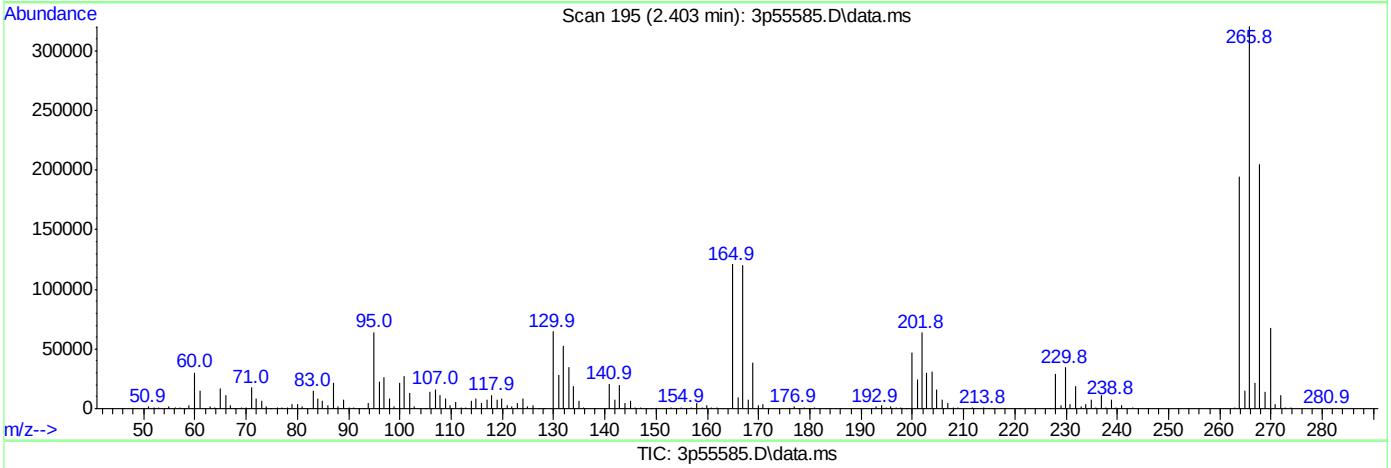
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
442.00	182904						
443.00	33479						
444.00	3289						
445.00	195						

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\E3P2546\
Data File : 3p55585.D
Acq On : 9 Aug 2016 2:26 pm
Operator : ashleyd
Sample : DFTPP
Misc : op95964a,e3p2546
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 09 14:32:04 2016
Quant Method : C:\MSDCHEM\1\METHODS\DFTPP3P.M
Quant Title : zebron ZB-5msi 30mx0.25mmx0.25um
QLast Update : Wed Mar 02 08:34:25 2016
Response via : Initial Calibration





TIC: 3p55585.D\data.ms

(1) Pentachlorophenol

2.403min (-0.028) 31.36

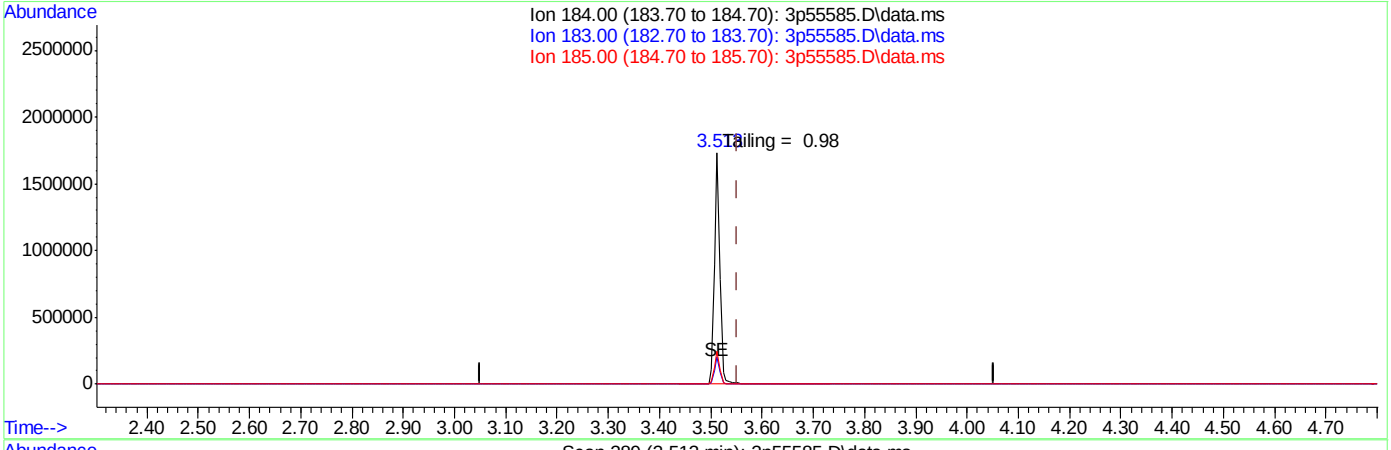
response 3147085

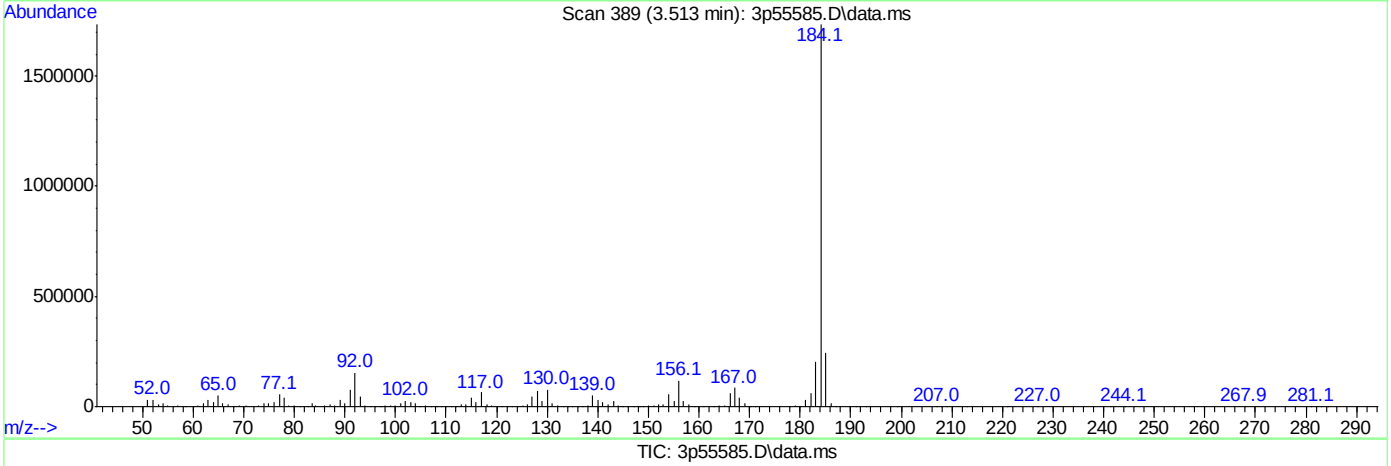
Ion	Exp%	Act%
266.00	100	100
264.00	0.00	61.06#
268.00	0.00	64.78#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\E3P2546\
Data File : 3p55585.D
Acq On : 9 Aug 2016 2:26 pm
Operator : ashleyd
Sample : DFTPP
Misc : op95964a,e3p2546
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 09 14:32:04 2016
Quant Method : C:\MSDCHEM\1\METHODS\DFTPP3P.M
Quant Title : zebron ZB-5msi 30mx0.25mmx0.25um
QLast Update : Wed Mar 02 08:34:25 2016
Response via : Initial Calibration





TIC: 3p55585.D\data.ms

(2) Benzidine

3.515min (-0.038) 33.32

response 12644673

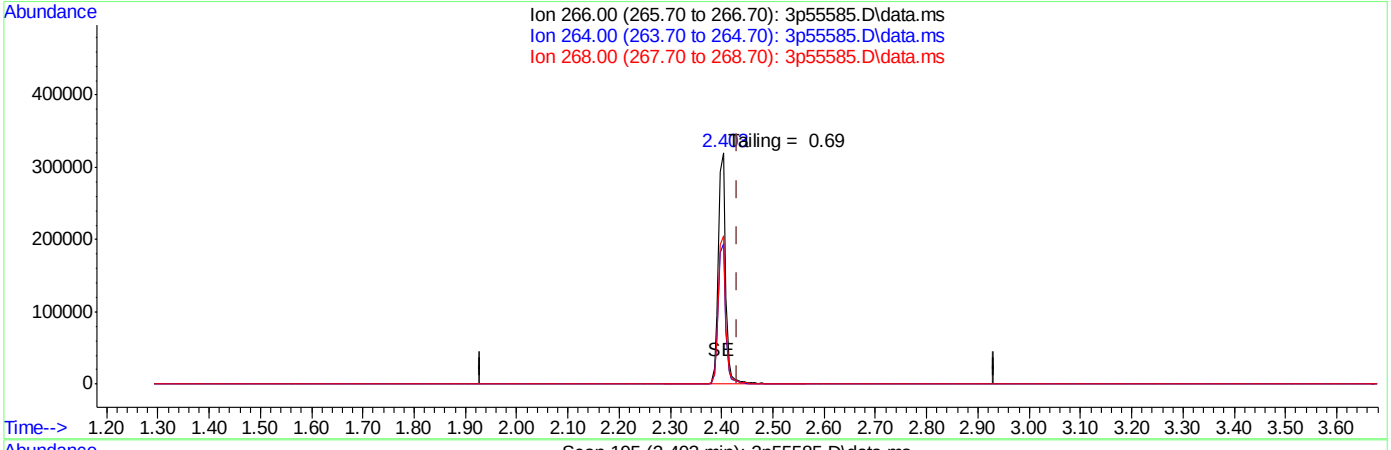
Ion	Exp%	Act%
184.00	100	100
183.00	0.00	11.60#
185.00	0.00	14.09#
0.00	0.00	0.00

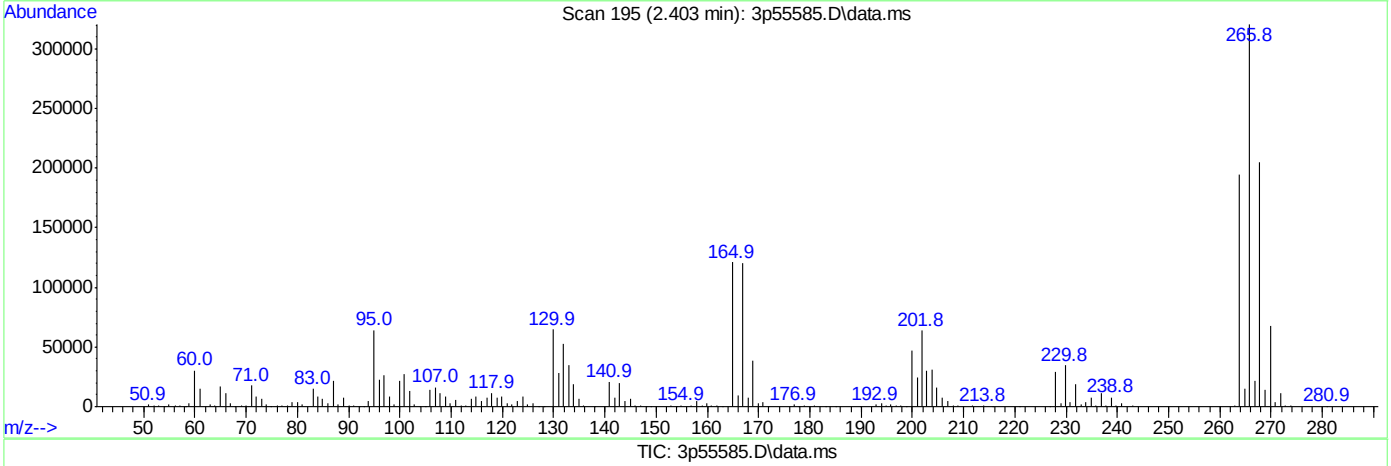
SGS ACCUTEST JC24978

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\E3P2546\
Data File : 3p55585.D
Acq On : 9 Aug 2016 2:26 pm
Operator : ashleyd
Sample : DFTPP
Misc : op95964a,e3p2546
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 09 14:32:04 2016
Quant Method : C:\MSDCHEM\1\METHODS\DFTPP3P.M
Quant Title : zebron ZB-5msi 30mx0.25mmx0.25um
QLast Update : Wed Mar 02 08:34:25 2016
Response via : Initial Calibration





TIC: 3p55585.D\data.ms

(1) Pentachlorophenol

2.403min (-0.028) 31.36

response 3147085

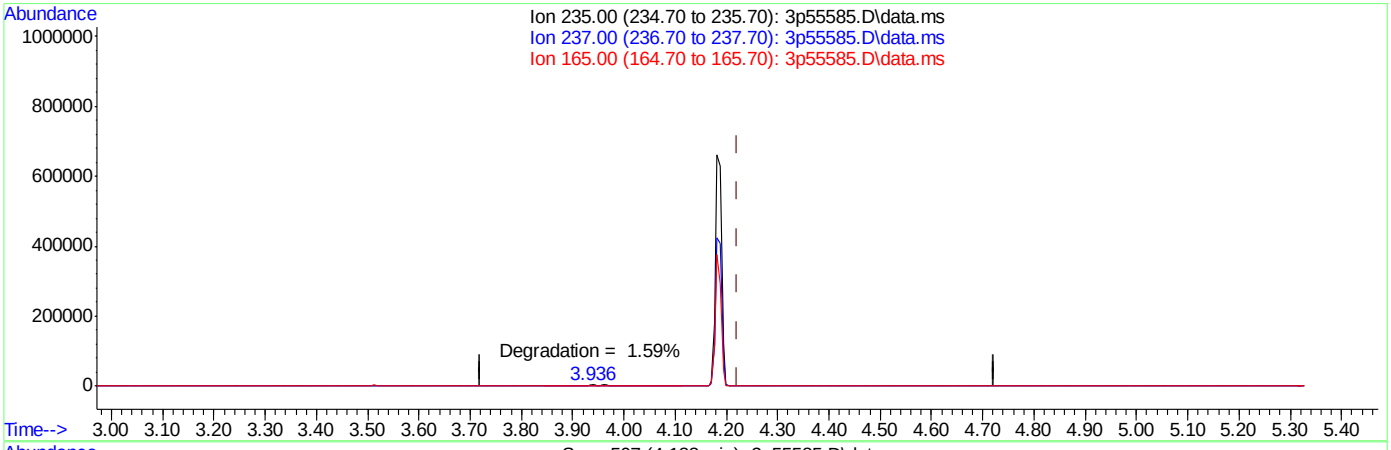
Ion	Exp%	Act%
266.00	100	100
264.00	0.00	61.06#
268.00	0.00	64.78#
0.00	0.00	0.00

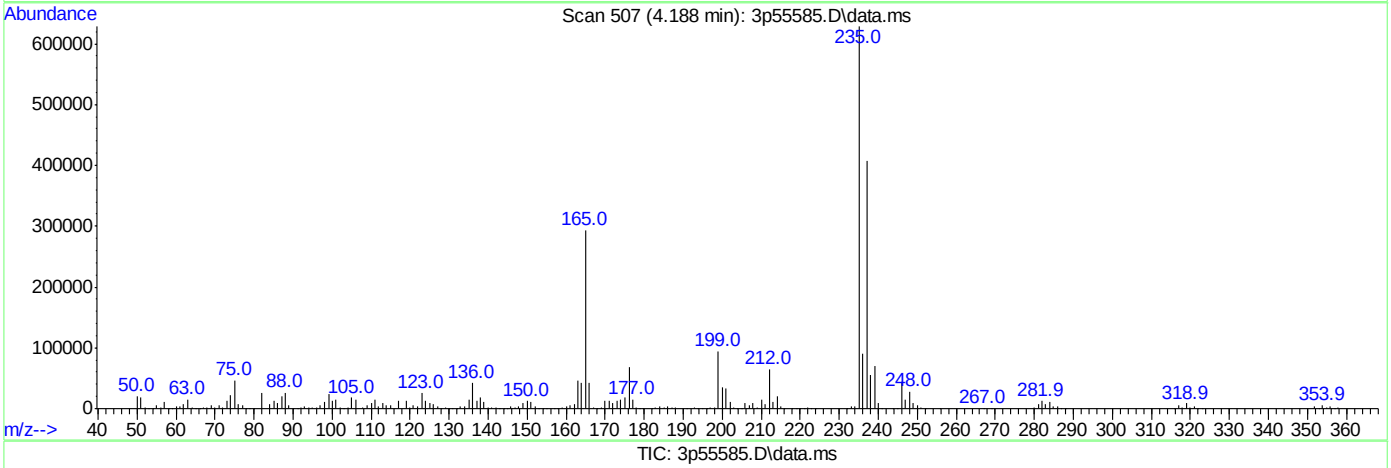
SGS ACCUTEST JC24978

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\E3P2546\
Data File : 3p55585.D
Acq On : 9 Aug 2016 2:26 pm
Operator : ashleyd
Sample : DFTPP
Misc : op95964a,e3p2546
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 09 14:32:04 2016
Quant Method : C:\MSDCHEM\1\METHODS\DFTPP3P.M
Quant Title : zebron ZB-5msi 30mx0.25mmx0.25um
QLast Update : Wed Mar 02 08:34:25 2016
Response via : Initial Calibration





TIC: 3p55585.D\data.ms

(3) PP-DDT

4.187min (-0.035) 32.81

response 5546901

Ion	Exp%	Act%
235.00	100	100
237.00	0.00	64.89#
165.00	0.00	52.54#
0.00	0.00	0.00

SGS ACCUTEST JC24978

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E2M3789\
Data File : 2m85680.D
Acq On : 20 Jul 2016 10:24 am
Operator : ashleyn
Sample : ic3789-1
Misc : op95288,e2m3789
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 20 14:26:20 2016
Quant Method : C:\MSDCHEM\1\METHODS\M2M3789.M
Quant Title : Semi Volatile GC/MS,rxi 5sil ms 30m .25mm .25um
QLast Update : Wed Jul 20 14:24:48 2016
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.782	152	84999	40.00	ppm	0.00
24) Naphthalene-d8	5.890	136	332412	40.00	ppm	0.00
47) Acenaphthene-d10	7.981	164	183394	40.00	ppm	0.00
69) Phenanthrene-d10	10.158	188	282328	40.00	ppm	0.00
83) Chrysene-d12	14.335	240	233950	40.00	ppm	0.00
91) Perylene-d12	16.448	264	242765	40.00	ppm	0.00
101) 1,4-Dichlorobenzene-d4a	4.782	152	84999	40.00	ppm	0.00
103) Acenaphthene-d10a	7.981	164	183394	40.00	ppm	0.00
105) Chrysene-d12a	14.335	240	233950	40.00	ppm	0.00
108) Phenanthrene-d10a	10.158	188	282328	40.00	ppm	0.00
111) Naphthalene-d8a	5.890	136	332412	40.00	ppm	0.00
113) Chrysene-d12b	14.335	240	233950	40.00	ppm	0.00

System Monitoring Compounds						
5) 2-Fluorophenol	3.804	112	2872	0.96	ppm	-0.02
Spiked Amount 50.000			Recovery = 1.92%			
8) Phenol-d5	4.510	99	3925	1.11	ppm	0.00
Spiked Amount 50.000			Recovery = 2.22%			
25) Nitrobenzene-d5	5.232	82	3154	1.12	ppm	0.00
Spiked Amount 50.000			Recovery = 2.24%			
51) 2-Fluorobiphenyl	7.098	172	6072	1.26	ppm	0.00
Spiked Amount 50.000			Recovery = 2.52%			
73) 2,4,6-Tribromophenol	9.115	330	477	0.79	ppm	-0.01
Spiked Amount 50.000			Recovery = 1.58%			
85) Terphenyl-d14	12.709	244	4966	1.08	ppm	-0.02
Spiked Amount 50.000			Recovery = 2.16%			
107) 1-chlorooctadecane	0.000	57	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
110) o-terphenyl	0.000	230	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			

Target Compounds						Qvalue
2) 1,4-Dioxane	2.359	88	2062	1.41	ppm	91
3) Pyridine	2.712	79	3625	0.94	ppm	98
4) N-Nitrosodimethylamine	2.654	74	2039	0.94	ppm	95
6) Indene	4.991	116	6201	1.51	ppm	99
7) Cumene	4.189	105	8243	1.20	ppm	99
9) Phenol	4.520	94	4427	1.13	ppm	95
10) Aniline	4.536	93	5710	1.22	ppm	97
11) bis(2-Chloroethyl)ether	4.579	93	3211	1.06	ppm	99
12) 2-Chlorophenol	4.627	128	3374	1.11	ppm	96
13) Decane	4.659	43	4397	1.21	ppm	87
14) 1,3-Dichlorobenzene	4.740	146	3607	1.17	ppm	99
15) 1,4-Dichlorobenzene	4.798	146	3561	1.17	ppm	96
16) Benzyl alcohol	4.889	108	2159	1.04	ppm	98
17) 1,2-Dichlorobenzene	4.921	146	3384	1.21	ppm	96
18) Acetophenone	5.103	105	4522	1.40	ppm	91
19) 2-Methylphenol	4.986	108	3000	1.37	ppm	97
20) 2,2'-oxybis(1-Chloropr...	4.996	45	5608	1.32	ppm	93
21) 3&4-Methylphenol	5.109	108	3236	1.45	ppm	94

SGS ACCUTEST JC24978

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E2M3789\
Data File : 2m85680.D
Acq On : 20 Jul 2016 10:24 am
Operator : ashleyn
Sample : ic3789-1
Misc : op95288,e2m3789
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 20 14:26:20 2016
Quant Method : C:\MSDCHEM\1\METHODS\M2M3789.M
Quant Title : Semi Volatile GC/MS,rxi 5sil ms 30m .25mm .25um
QLast Update : Wed Jul 20 14:24:48 2016
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
22) n-Nitroso-di-n-propyla...	5.103	70	2251	1.42	ppm		87
23) Hexachloroethane	5.200	201	999	1.10	ppm	#	78
26) Nitrobenzene	5.248	77	3466	1.16	ppm		92
27) Quinoline	6.259	129	6592	1.13	ppm		99
28) Isophorone	5.451	82	5987	1.14	ppm		94
29) 2-Nitrophenol	5.531	139	1500	0.96	ppm		87
30) 2,4-Dimethylphenol	5.563	107	2920	1.07	ppm		94
31) Benzoic acid	5.654	105	758	0.29	ppm		89
32) bis(2-Chloroethoxy)met...	5.644	93	3494	1.09	ppm		96
33) 2,4-Dichlorophenol	5.761	162	2273	1.03	ppm		96
34) 2,6-Dichlorophenol	5.975	162	2407	1.17	ppm		91
35) 1,3,5-Trichlorobenzene	5.542	180	2830	1.25	ppm		93
36) 1,2,4-Trichlorobenzene	5.836	180	2561	1.19	ppm		88
37) 1,2,3-Trichlorobenzene	6.061	180	2495	1.16	ppm		90
38) Naphthalene	5.911	128	9591	1.26	ppm		98
39) 4-Chloroaniline	5.964	127	4098	1.20	ppm		97
40) 2,3-Dichloroaniline	6.991	161	2937	1.18	ppm		97
41) Caprolactam	6.296	55	1492	0.97	ppm		86
42) Hexachlorobutadiene	6.045	225	1193	1.20	ppm		94
43) 4-Chloro-3-methylphenol	6.489	107	2430	0.98	ppm		97
44) 2-Methylnaphthalene	6.654	141	5308	1.20	ppm		95
45) 1-Methylnaphthalene	6.772	141	5476	1.24	ppm		94
46) Dimethylnaphthalene	7.425	156	5592	1.22	ppm		98
48) Hexachlorocyclopentadiene	6.852	237	672	0.64	ppm		87
49) 2,4,6-Trichlorophenol	6.997	196	1462	1.08	ppm		89
50) 2,4,5-Trichlorophenol	7.050	196	1491	0.96	ppm		92
52) 2-Chloronaphthalene	7.243	162	5526	1.25	ppm		95
53) Biphenyl	7.221	154	7667	1.30	ppm		95
54) 2-Nitroaniline	7.377	65	1613	0.93	ppm		97
55) Dimethylphthalate	7.628	163	5840	1.15	ppm		98
56) Acenaphthylene	7.783	152	8814	1.18	ppm		98
57) 2,6-Dinitrotoluene	7.697	165	949	0.78	ppm		82
58) 3-Nitroaniline	7.927	138	1404	0.84	ppm	#	69
59) Acenaphthene	8.024	153	5722	1.28	ppm		94
62) Dibenzofuran	8.264	168	8366	1.35	ppm		91
63) 2,4-Dinitrotoluene	8.259	165	1218	0.82	ppm		97
64) 2,3,4,6-Tetrachlorophenol	8.462	232	922	0.83	ppm		78
65) Diethylphthalate	8.628	149	5743	1.13	ppm		96
66) Fluorene	8.756	166	6184	1.27	ppm		95
67) 4-Chlorophenyl-phenyle...	8.773	204	2769	1.30	ppm		77
68) 4-Nitroaniline	8.799	138	1212	0.72	ppm		76
70) 4,6-Dinitro-2-methylph...	8.863	198	223	0.22	ppm		82
71) n-Nitrosodiphenylamine	8.949	169	4142	1.17	ppm		99
72) 1,2-Diphenylhydrazine	9.008	77	5897	1.09	ppm		78
74) 4-Bromophenyl-phenylether	9.500	248	1324	1.13	ppm	#	81
75) Hexachlorobenzene	9.585	284	1465	1.15	ppm		87
76) Pentachlorophenol	9.901	266	975	1.14	ppm		85
77) Phenanthrene	10.195	178	8545	1.25	ppm		93
78) Anthracene	10.270	178	8442	1.21	ppm		98
79) Carbazole	10.543	167	8597	1.23	ppm		96

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E2M3789\
Data File : 2m85680.D
Acq On : 20 Jul 2016 10:24 am
Operator : ashleyn
Sample : ic3789-1
Misc : op95288,e2m3789
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 20 14:26:20 2016
Quant Method : C:\MSDCHEM\1\METHODS\M2M3789.M
Quant Title : Semi Volatile GC/MS,rxi 5sil ms 30m .25mm .25um
QLast Update : Wed Jul 20 14:24:48 2016
Response via : Initial Calibration

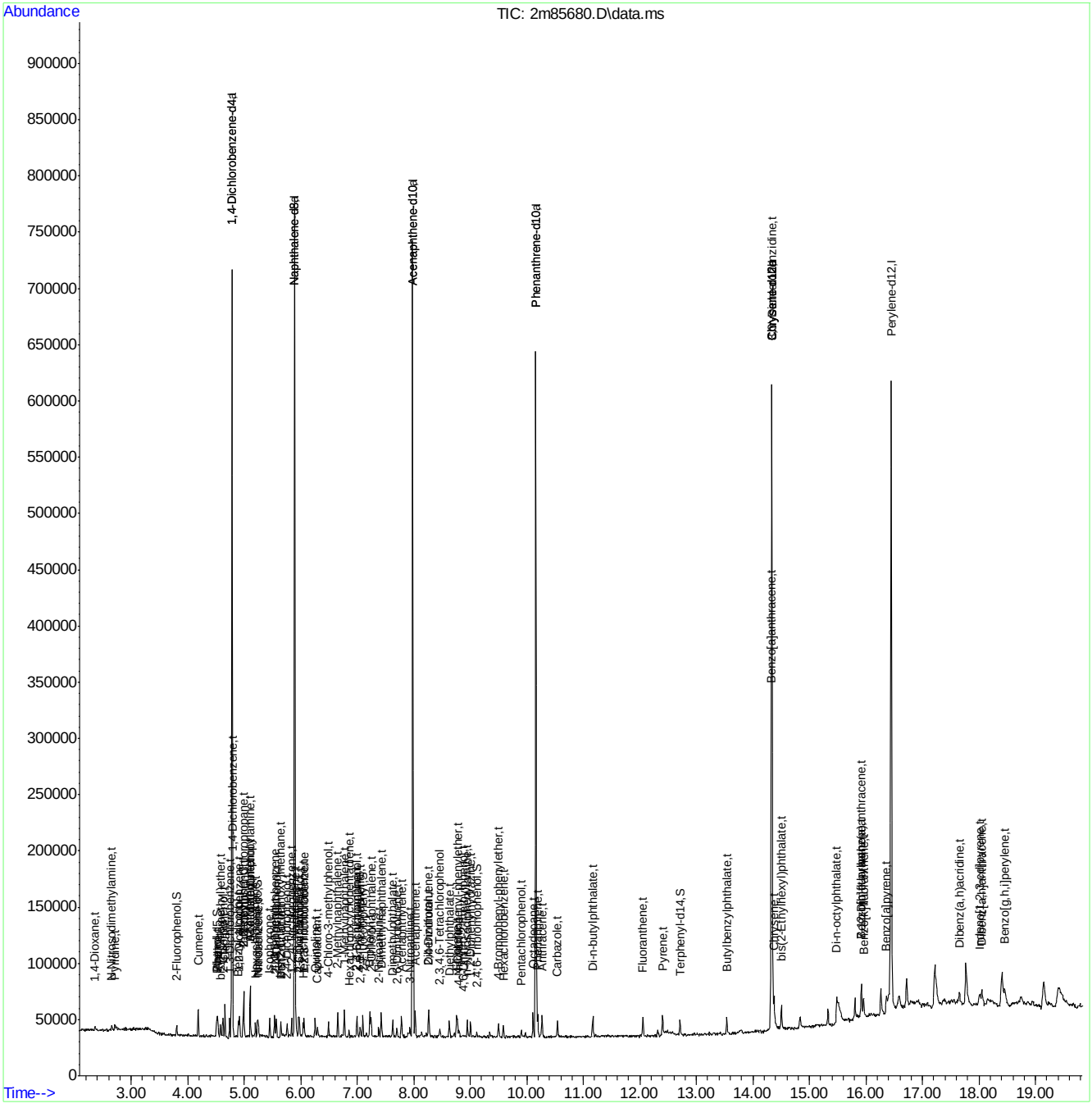
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
80) Di-n-butylphthalate	11.169	149	8990	1.05 ppm	100
81) Fluoranthene	12.051	202	8019	1.14 ppm	97
82) Octadecane	10.110	57	4611	1.18 ppm	93
84) Pyrene	12.399	202	8848	1.15 ppm	95
86) Butylbenzylphthalate	13.538	149	4214	1.02 ppm	94
87) Benzo[a]anthracene	14.319	228	7994	1.33 ppm	96
88) 3,3'-Dichlorobenzidine	14.330	252	2187	1.02 ppm	81
89) Chrysene	14.373	228	7583	1.18 ppm	96
90) bis(2-Ethylhexyl)phtha...	14.506	149	7095	1.28 ppm	90
92) Di-n-octylphthalate	15.485	149	10237	1.08 ppm	98
93) Benzo[b]fluoranthene	15.924	252	7724	1.17 ppm	90
94) Benzo[k]fluoranthene	15.961	252	7548	1.28 ppm	95
95) Benzo[a]pyrene	16.362	252	6969	1.17 ppm	88
96) Indeno[1,2,3-cd]pyrene	18.010	276	6276	0.99 ppm	72
97) Dibenz(a,h)acridine	17.651	279	5978	1.05 ppm	99
98) Dibenz[a,h]anthracene	18.052	278	6761	1.07 ppm	90
99) 7,12-Dimethylbenz(a)an...	15.924	256	3500	1.22 ppm	84
100) Benzo[g,h,i]perylene	18.459	276	6963	1.09 ppm	78

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E2M3789\
Data File : 2m85680.D
Acq On : 20 Jul 2016 10:24 am
Operator : ashleyn
Sample : ic3789-1
Misc : op95288,e2m3789
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 20 14:26:20 2016
Quant Method : C:\MSDCHEM\1\METHODS\M2M3789.M
Quant Title : Semi Volatile GC/MS,rxi 5sil ms 30m .25mm .25um
QLast Update : Wed Jul 20 14:24:48 2016
Response via : Initial Calibration



M2M3789.M Wed Jul 20 14:27:05 2016 Page: 4

SGS ACCUTEST JC24978

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E2M3789\
Data File : 2m85681.D
Acq On : 20 Jul 2016 10:50 am
Operator : ashleyn
Sample : ic3789-100
Misc : op95288,e2m3789
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 20 14:25:28 2016
Quant Method : C:\MSDCHEM\1\METHODS\M2M3789.M
Quant Title : Semi Volatile GC/MS,rxi 5sil ms 30m .25mm .25um
QLast Update : Wed Jul 20 14:24:48 2016
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.783	152	79876	40.00	ppm	0.00
24) Naphthalene-d8	5.895	136	326351	40.00	ppm	0.00
47) Acenaphthene-d10	7.986	164	185455	40.00	ppm	0.00
69) Phenanthrene-d10	10.163	188	290429	40.00	ppm	0.00
83) Chrysene-d12	14.346	240	228374	40.00	ppm	0.01
91) Perylene-d12	16.453	264	244692	40.00	ppm	0.00
101) 1,4-Dichlorobenzene-d4a	4.783	152	79876	40.00	ppm	0.00
103) Acenaphthene-d10a	7.986	164	185455	40.00	ppm	0.00
105) Chrysene-d12a	14.346	240	228374	40.00	ppm	0.01
108) Phenanthrene-d10a	10.163	188	290429	40.00	ppm	0.00
111) Naphthalene-d8a	5.895	136	326351	40.00	ppm	0.00
113) Chrysene-d12b	14.346	240	228374	40.00	ppm	0.01

System Monitoring Compounds						
5) 2-Fluorophenol	3.804	112	281010	100.00	ppm	-0.02
Spiked Amount 50.000			Recovery = 200.00%			
8) Phenol-d5	4.515	99	330945	100.00	ppm	0.00
Spiked Amount 50.000			Recovery = 200.00%			
25) Nitrobenzene-d5	5.237	82	277627	100.00	ppm	0.00
Spiked Amount 50.000			Recovery = 200.00%			
51) 2-Fluorobiphenyl	7.104	172	485821	100.00	ppm	0.00
Spiked Amount 50.000			Recovery = 200.00%			
73) 2,4,6-Tribromophenol	9.120	330	62455	100.00	ppm	0.00
Spiked Amount 50.000			Recovery = 200.00%			
85) Terphenyl-d14	12.715	244	449843	100.00	ppm	0.00
Spiked Amount 50.000			Recovery = 200.00%			
107) 1-chlorooctadecane	0.000	57	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
110) o-terphenyl	0.000	230	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			

Target Compounds						Qvalue
2) 1,4-Dioxane	2.344	88	137828	100.00	ppm	100
3) Pyridine	2.665	79	362845	100.00	ppm	91
4) N-Nitrosodimethylamine	2.632	74	204815	100.00	ppm	96
6) Indene	4.991	116	385863	100.00	ppm	98
7) Cumene	4.184	105	648072	100.00	ppm	97
9) Phenol	4.526	94	368610	100.00	ppm	80
10) Aniline	4.537	93	439619	100.00	ppm	96
11) bis(2-Chloroethyl)ether	4.585	93	283921	100.00	ppm	99
12) 2-Chlorophenol	4.633	128	285575	100.00	ppm	96
13) Decane	4.660	43	342122	100.00	ppm	89
14) 1,3-Dichlorobenzene	4.745	146	288484	100.00	ppm	96
15) 1,4-Dichlorobenzene	4.799	146	287171	100.00	ppm	97
16) Benzyl alcohol	4.895	108	195792	100.00	ppm	94
17) 1,2-Dichlorobenzene	4.922	146	262647	100.00	ppm	98
18) Acetophenone	5.109	105	303993	100.00	ppm	99
19) 2-Methylphenol	4.991	108	205318	100.00	ppm	98
20) 2,2'-oxybis(1-Chloropr...	5.002	45	398407	100.00	ppm	94
21) 3&4-Methylphenol	5.114	108	209718	100.00	ppm	100

SGS ACCUTEST JC24978

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E2M3789\
Data File : 2m85681.D
Acq On : 20 Jul 2016 10:50 am
Operator : ashleyn
Sample : ic3789-100
Misc : op95288,e2m3789
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 20 14:25:28 2016
Quant Method : C:\MSDCHEM\1\METHODS\M2M3789.M
Quant Title : Semi Volatile GC/MS,rxi 5sil ms 30m .25mm .25um
QLast Update : Wed Jul 20 14:24:48 2016
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
22) n-Nitroso-di-n-propyla...	5.109	70	149489	100.00	ppm		76
23) Hexachloroethane	5.200	201	85287	100.00	ppm	#	72
26) Nitrobenzene	5.253	77	292795	100.00	ppm		92
27) Quinoline	6.269	129	571302	100.00	ppm		98
28) Isophorone	5.462	82	515952	100.00	ppm		98
29) 2-Nitrophenol	5.531	139	153647	100.00	ppm		92
30) 2,4-Dimethylphenol	5.569	107	268615	100.00	ppm		94
31) Benzoic acid	5.713	105	253356	100.00	ppm		94
32) bis(2-Chloroethoxy)met...	5.649	93	315126	100.00	ppm		99
33) 2,4-Dichlorophenol	5.761	162	216477	100.00	ppm		99
34) 2,6-Dichlorophenol	5.981	162	202778	100.00	ppm		99
35) 1,3,5-Trichlorobenzene	5.547	180	222718	100.00	ppm		95
36) 1,2,4-Trichlorobenzene	5.842	180	211631	100.00	ppm		92
37) 1,2,3-Trichlorobenzene	6.066	180	211934	100.00	ppm		95
38) Naphthalene	5.917	128	748643	100.00	ppm		98
39) 4-Chloroaniline	5.970	127	335246	100.00	ppm		94
40) 2,3-Dichloroaniline	6.997	161	244855	100.00	ppm		97
41) Caprolactam	6.371	55	150838	100.00	ppm		96
42) Hexachlorobutadiene	6.045	225	97691	100.00	ppm		93
43) 4-Chloro-3-methylphenol	6.500	107	242612	100.00	ppm		99
44) 2-Methylnaphthalene	6.660	141	434839	100.00	ppm		96
45) 1-Methylnaphthalene	6.778	141	432663	100.00	ppm		95
46) Dimethylnaphthalene	7.436	156	450747	100.00	ppm		95
48) Hexachlorocyclopentadiene	6.858	237	211869	200.00	ppm		98
49) 2,4,6-Trichlorophenol	7.008	196	137509	100.00	ppm		97
50) 2,4,5-Trichlorophenol	7.056	196	156495	100.00	ppm		98
52) 2-Chloronaphthalene	7.254	162	447750	100.00	ppm		97
53) Biphenyl	7.232	154	594162	100.00	ppm		99
54) 2-Nitroaniline	7.393	65	174534	100.00	ppm		95
55) Dimethylphthalate	7.639	163	513895	100.00	ppm		99
56) Acenaphthylene	7.794	152	754197	100.00	ppm		99
57) 2,6-Dinitrotoluene	7.714	165	123688	100.00	ppm		93
58) 3-Nitroaniline	7.944	138	169134	100.00	ppm		97
59) Acenaphthene	8.035	153	452675	100.00	ppm		95
60) 2,4-Dinitrophenol	8.088	184	156706	200.00	ppm	#	90
61) 4-Nitrophenol	8.211	109	73944	100.00	ppm		88
62) Dibenzofuran	8.275	168	626151	100.00	ppm		94
63) 2,4-Dinitrotoluene	8.270	165	149876	100.00	ppm		98
64) 2,3,4,6-Tetrachlorophenol	8.462	232	112592	100.00	ppm		87
65) Diethylphthalate	8.644	149	516218	100.00	ppm		94
66) Fluorene	8.767	166	492968	100.00	ppm		97
67) 4-Chlorophenyl-phenyle...	8.783	204	215985	100.00	ppm		79
68) 4-Nitroaniline	8.826	138	169858	100.00	ppm		97
70) 4,6-Dinitro-2-methylph...	8.864	198	105360	100.00	ppm		85
71) n-Nitrosodiphenylamine	8.960	169	365155	100.00	ppm		96
72) 1,2-Diphenylhydrazine	9.013	77	558195	100.00	ppm		88
74) 4-Bromophenyl-phenylether	9.505	248	120270	100.00	ppm	#	79
75) Hexachlorobenzene	9.591	284	131441	100.00	ppm		79
76) Pentachlorophenol	9.901	266	175409	200.00	ppm		95
77) Phenanthrene	10.206	178	701786	100.00	ppm		98

SGS ACCUTEST JC24978

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E2M3789\
Data File : 2m85681.D
Acq On : 20 Jul 2016 10:50 am
Operator : ashleyn
Sample : ic3789-100
Misc : op95288,e2m3789
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 20 14:25:28 2016
Quant Method : C:\MSDCHEM\1\METHODS\M2M3789.M
Quant Title : Semi Volatile GC/MS,rxi 5sil ms 30m .25mm .25um
QLast Update : Wed Jul 20 14:24:48 2016
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
78) Anthracene	10.281	178	714869	100.00 ppm	99
79) Carbazole	10.554	167	717384	100.00 ppm	99
80) Di-n-butylphthalate	11.174	149	882676	100.00 ppm	99
81) Fluoranthene	12.062	202	721342	100.00 ppm	93
82) Octadecane	10.115	57	400289	100.00 ppm	93
84) Pyrene	12.415	202	751682	100.00 ppm	99
86) Butylbenzylphthalate	13.549	149	402669	100.00 ppm	88
87) Benzo[a]anthracene	14.330	228	586673	100.00 ppm	97
88) 3,3'-Dichlorobenzidine	14.335	252	208374	100.00 ppm	96
89) Chrysene	14.389	228	627038	100.00 ppm	98
90) bis(2-Ethylhexyl)phtha...	14.506	149	542844	100.00 ppm	91
92) Di-n-octylphthalate	15.496	149	958265	100.00 ppm	99
93) Benzo[b]fluoranthene	15.940	252	664282	100.00 ppm	90
94) Benzo[k]fluoranthene	15.988	252	592439	100.00 ppm	86
95) Benzo[a]pyrene	16.384	252	599848	100.00 ppm	83
96) Indeno[1,2,3-cd]pyrene	18.042	276	641785	100.00 ppm	72
97) Dibenz(a,h)acridine	17.678	279	574075	100.00 ppm	98
98) Dibenz[a,h]anthracene	18.085	278	636664	100.00 ppm	85
99) 7,12-Dimethylbenz(a)an...	15.951	256	289489	100.00 ppm	91
100) Benzo[g,h,i]perylene	18.502	276	645260	100.00 ppm	77

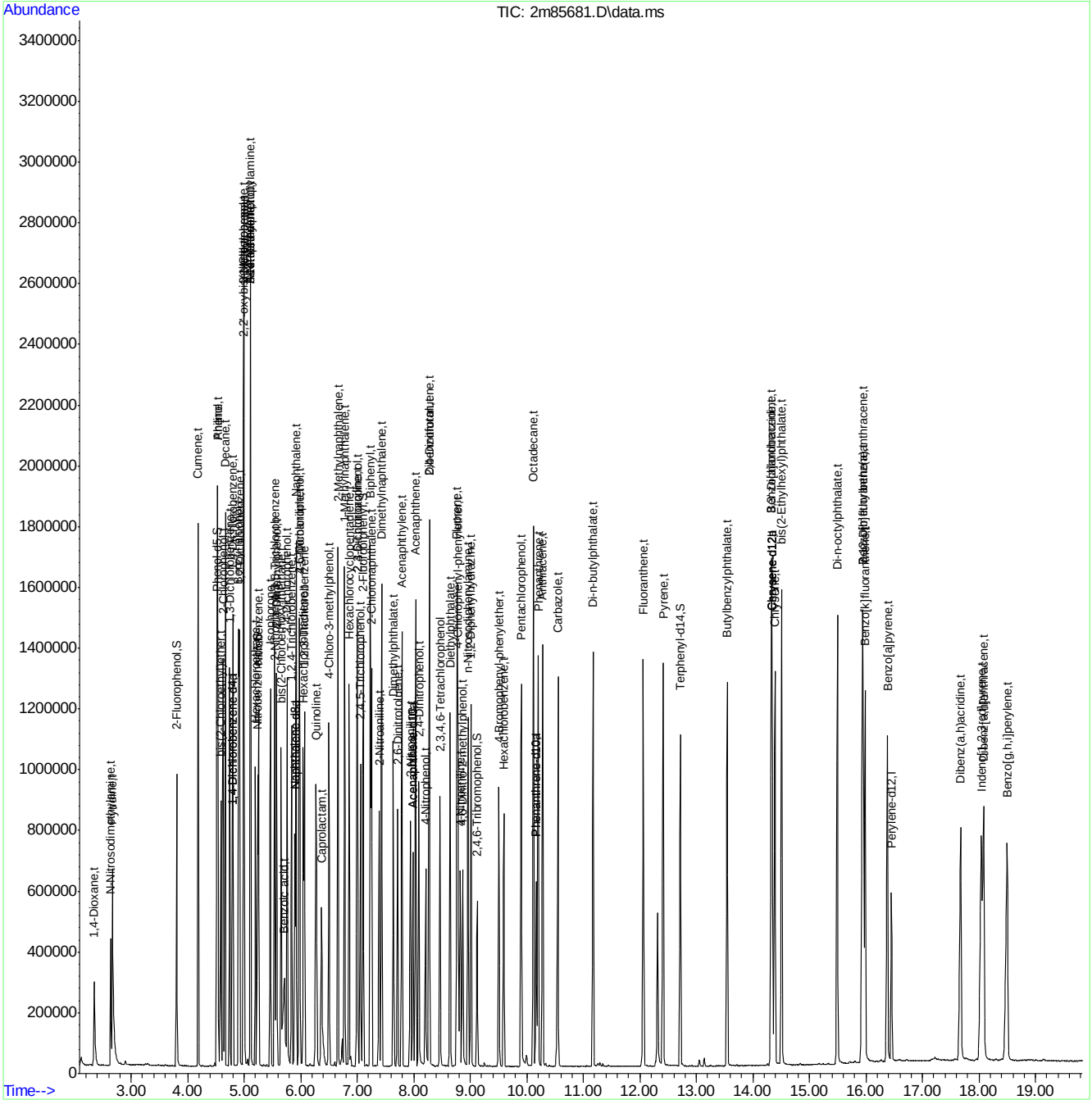
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC24978

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E2M3789\
Data File : 2m85681.D
Acq On : 20 Jul 2016 10:50 am
Operator : ashleyn
Sample : ic3789-100
Misc : op95288,e2m3789
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 20 14:25:28 2016
Quant Method : C:\MSDCHEM\1\METHODS\M2M3789.M
Quant Title : Semi Volatile GC/MS,rxi 5sil ms 30m .25mm .25um
QLast Update : Wed Jul 20 14:24:48 2016
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E2M3789\
Data File : 2m85682.D
Acq On : 20 Jul 2016 11:48 am
Operator : ashleyn
Sample : ic3789-2
Misc : op95288,e2m3789
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jul 20 14:28:55 2016
Quant Method : C:\MSDCHEM\1\METHODS\M2M3789.M
Quant Title : Semi Volatile GC/MS,rxi 5sil ms 30m .25mm .25um
QLast Update : Wed Jul 20 14:28:40 2016
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.783	152	85084	40.00	ppm	0.00
24) Naphthalene-d8	5.890	136	335259	40.00	ppm	0.00
47) Acenaphthene-d10	7.981	164	185864	40.00	ppm	0.00
69) Phenanthrene-d10	10.158	188	283915	40.00	ppm	0.00
83) Chrysene-d12	14.335	240	233272	40.00	ppm	0.00
91) Perylene-d12	16.448	264	233544	40.00	ppm	0.00
101) 1,4-Dichlorobenzene-d4a	4.783	152	85084	40.00	ppm	0.00
103) Acenaphthene-d10a	7.981	164	185864	40.00	ppm	0.00
105) Chrysene-d12a	14.335	240	233272	40.00	ppm	0.00
108) Phenanthrene-d10a	10.158	188	283915	40.00	ppm	0.00
111) Naphthalene-d8a	5.890	136	335259	40.00	ppm	0.00
113) Chrysene-d12b	14.335	240	233272	40.00	ppm	0.00

System Monitoring Compounds						
5) 2-Fluorophenol	3.798	112	6041	2.06	ppm	-0.02
Spiked Amount 50.000			Recovery = 4.12%			
8) Phenol-d5	4.510	99	8120	2.18	ppm	0.00
Spiked Amount 50.000			Recovery = 4.36%			
25) Nitrobenzene-d5	5.232	82	6637	2.20	ppm	0.00
Spiked Amount 50.000			Recovery = 4.40%			
51) 2-Fluorobiphenyl	7.099	172	12549	2.28	ppm	0.00
Spiked Amount 50.000			Recovery = 4.56%			
73) 2,4,6-Tribromophenol	9.115	330	1169	2.14	ppm	-0.01
Spiked Amount 50.000			Recovery = 4.28%			
85) Terphenyl-d14	12.715	244	9977	2.09	ppm	0.00
Spiked Amount 50.000			Recovery = 4.18%			
107) 1-chlorooctadecane	0.000	57	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
110) o-terphenyl	0.000	230	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			

Target Compounds						Qvalue
2) 1,4-Dioxane	2.349	88	3263	1.85	ppm	97
3) Pyridine	2.691	79	8171	2.18	ppm	93
4) N-Nitrosodimethylamine	2.643	74	4527	2.14	ppm	95
6) Indene	4.986	116	12867	2.49	ppm	95
7) Cumene	4.184	105	16834	2.22	ppm	98
9) Phenol	4.520	94	9620	2.30	ppm	96
10) Aniline	4.531	93	11644	2.24	ppm	95
11) bis(2-Chloroethyl)ether	4.574	93	6808	2.18	ppm	92
12) 2-Chlorophenol	4.627	128	6897	2.15	ppm	94
13) Decane	4.660	43	8780	2.18	ppm	94
14) 1,3-Dichlorobenzene	4.740	146	7475	2.24	ppm	98
15) 1,4-Dichlorobenzene	4.793	146	7424	2.24	ppm	99
16) Benzyl alcohol	4.890	108	4749	2.24	ppm	97
17) 1,2-Dichlorobenzene	4.916	146	6957	2.25	ppm	98
18) Acetophenone	5.098	105	9628	2.48	ppm	89
19) 2-Methylphenol	4.980	108	6490	2.50	ppm	98
20) 2,2'-oxybis(1-Chloropr...	4.997	45	11220	2.28	ppm	94
21) 3&4-Methylphenol	5.103	108	6913	2.53	ppm	94

SGS ACCUTEST JC24978

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E2M3789\
Data File : 2m85682.D
Acq On : 20 Jul 2016 11:48 am
Operator : ashleyn
Sample : ic3789-2
Misc : op95288,e2m3789
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jul 20 14:28:55 2016
Quant Method : C:\MSDCHEM\1\METHODS\M2M3789.M
Quant Title : Semi Volatile GC/MS,rxi 5sil ms 30m .25mm .25um
QLast Update : Wed Jul 20 14:28:40 2016
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
22) n-Nitroso-di-n-propyla...	5.098	70	5014	2.61	ppm		89
23) Hexachloroethane	5.194	201	2029	2.13	ppm	#	84
26) Nitrobenzene	5.248	77	7028	2.16	ppm		98
27) Quinoline	6.253	129	13411	2.14	ppm		99
28) Isophorone	5.451	82	12372	2.18	ppm		98
29) 2-Nitrophenol	5.526	139	3298	2.13	ppm		93
30) 2,4-Dimethylphenol	5.563	107	6363	2.23	ppm		97
31) Benzoic acid	5.633	105	3210	1.23	ppm		82
32) bis(2-Chloroethoxy)met...	5.644	93	7642	2.26	ppm		94
33) 2,4-Dichlorophenol	5.756	162	5168	2.29	ppm		98
34) 2,6-Dichlorophenol	5.975	162	5130	2.27	ppm		99
35) 1,3,5-Trichlorobenzene	5.542	180	5890	2.29	ppm		96
36) 1,2,4-Trichlorobenzene	5.836	180	5360	2.25	ppm		96
37) 1,2,3-Trichlorobenzene	6.061	180	5170	2.20	ppm		90
38) Naphthalene	5.911	128	20098	2.31	ppm		98
39) 4-Chloroaniline	5.965	127	8628	2.28	ppm		93
40) 2,3-Dichloroaniline	6.992	161	6445	2.35	ppm		94
41) Caprolactam	6.302	55	3105	2.03	ppm		97
42) Hexachlorobutadiene	6.039	225	2491	2.26	ppm		98
43) 4-Chloro-3-methylphenol	6.483	107	5355	2.17	ppm		94
44) 2-Methylnaphthalene	6.655	141	11481	2.34	ppm		97
45) 1-Methylnaphthalene	6.772	141	11491	2.31	ppm		94
46) Dimethylnaphthalene	7.425	156	11381	2.22	ppm		97
48) Hexachlorocyclopentadiene	6.852	237	2904	2.74	ppm		92
49) 2,4,6-Trichlorophenol	6.997	196	3139	2.20	ppm		99
50) 2,4,5-Trichlorophenol	7.050	196	3267	2.12	ppm		87
52) 2-Chloronaphthalene	7.243	162	11113	2.20	ppm		97
53) Biphenyl	7.222	154	16174	2.36	ppm		100
54) 2-Nitroaniline	7.377	65	3415	2.02	ppm		99
55) Dimethylphthalate	7.628	163	12145	2.19	ppm		98
56) Acenaphthylene	7.783	152	18555	2.25	ppm		97
57) 2,6-Dinitrotoluene	7.698	165	2067	1.88	ppm		99
58) 3-Nitroaniline	7.928	138	3299	2.12	ppm		96
59) Acenaphthene	8.024	153	11841	2.29	ppm		98
60) 2,4-Dinitrophenol	8.099	184	915	1.17	ppm	#	72
61) 4-Nitrophenol	8.216	109	1232	1.66	ppm	#	78
62) Dibenzofuran	8.265	168	17435	2.36	ppm		91
63) 2,4-Dinitrotoluene	8.259	165	3010	2.20	ppm		98
64) 2,3,4,6-Tetrachlorophenol	8.457	232	2225	2.16	ppm		83
65) Diethylphthalate	8.628	149	11545	2.10	ppm		89
66) Fluorene	8.757	166	13017	2.32	ppm		97
67) 4-Chlorophenyl-phenyle...	8.778	204	5497	2.21	ppm		79
68) 4-Nitroaniline	8.794	138	3122	2.13	ppm		92
70) 4,6-Dinitro-2-methylph...	8.853	198	864	0.84	ppm		69
71) n-Nitrosodiphenylamine	8.949	169	8515	2.20	ppm		99
72) 1,2-Diphenylhydrazine	9.008	77	12956	2.28	ppm		85
74) 4-Bromophenyl-phenylether	9.500	248	2755	2.20	ppm	#	74
75) Hexachlorobenzene	9.586	284	2998	2.17	ppm		73
76) Pentachlorophenol	9.896	266	2630	3.07	ppm		92
77) Phenanthrene	10.195	178	18600	2.41	ppm		99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E2M3789\
Data File : 2m85682.D
Acq On : 20 Jul 2016 11:48 am
Operator : ashleyn
Sample : ic3789-2
Misc : op95288,e2m3789
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jul 20 14:28:55 2016
Quant Method : C:\MSDCHEM\1\METHODS\M2M3789.M
Quant Title : Semi Volatile GC/MS,rxi 5sil ms 30m .25mm .25um
QLast Update : Wed Jul 20 14:28:40 2016
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
78) Anthracene	10.270	178	17421	2.25	ppm	97
79) Carbazole	10.543	167	17901	2.29	ppm	97
80) Di-n-butylphthalate	11.169	149	19452	2.20	ppm	98
81) Fluoranthene	12.057	202	16920	2.24	ppm	93
82) Octadecane	10.110	57	9463	2.21	ppm	96
84) Pyrene	12.404	202	17988	2.18	ppm	98
86) Butylbenzylphthalate	13.544	149	7560	1.82	ppm	95
87) Benzo[a]anthracene	14.325	228	14953	2.14	ppm	95
88) 3,3'-Dichlorobenzidine	14.330	252	4955	2.30	ppm	93
89) Chrysene	14.373	228	15664	2.24	ppm	97
90) bis(2-Ethylhexyl)phtha...	14.506	149	11300	1.79	ppm	95
92) Di-n-octylphthalate	15.485	149	18456	1.94	ppm	98
93) Benzo[b]fluoranthene	15.924	252	15497	2.25	ppm	95
94) Benzo[k]fluoranthene	15.961	252	14750	2.28	ppm	89
95) Benzo[a]pyrene	16.368	252	12972	2.09	ppm	87
96) Indeno[1,2,3-cd]pyrene	18.015	276	12401	2.04	ppm	77
97) Dibenz(a,h)acridine	17.657	279	11911	2.12	ppm	99
98) Dibenz[a,h]anthracene	18.058	278	13580	2.16	ppm	90
99) 7,12-Dimethylbenz(a)an...	15.924	256	6687	2.18	ppm	88
100) Benzo[g,h,i]perylene	18.464	276	13522	2.10	ppm	77

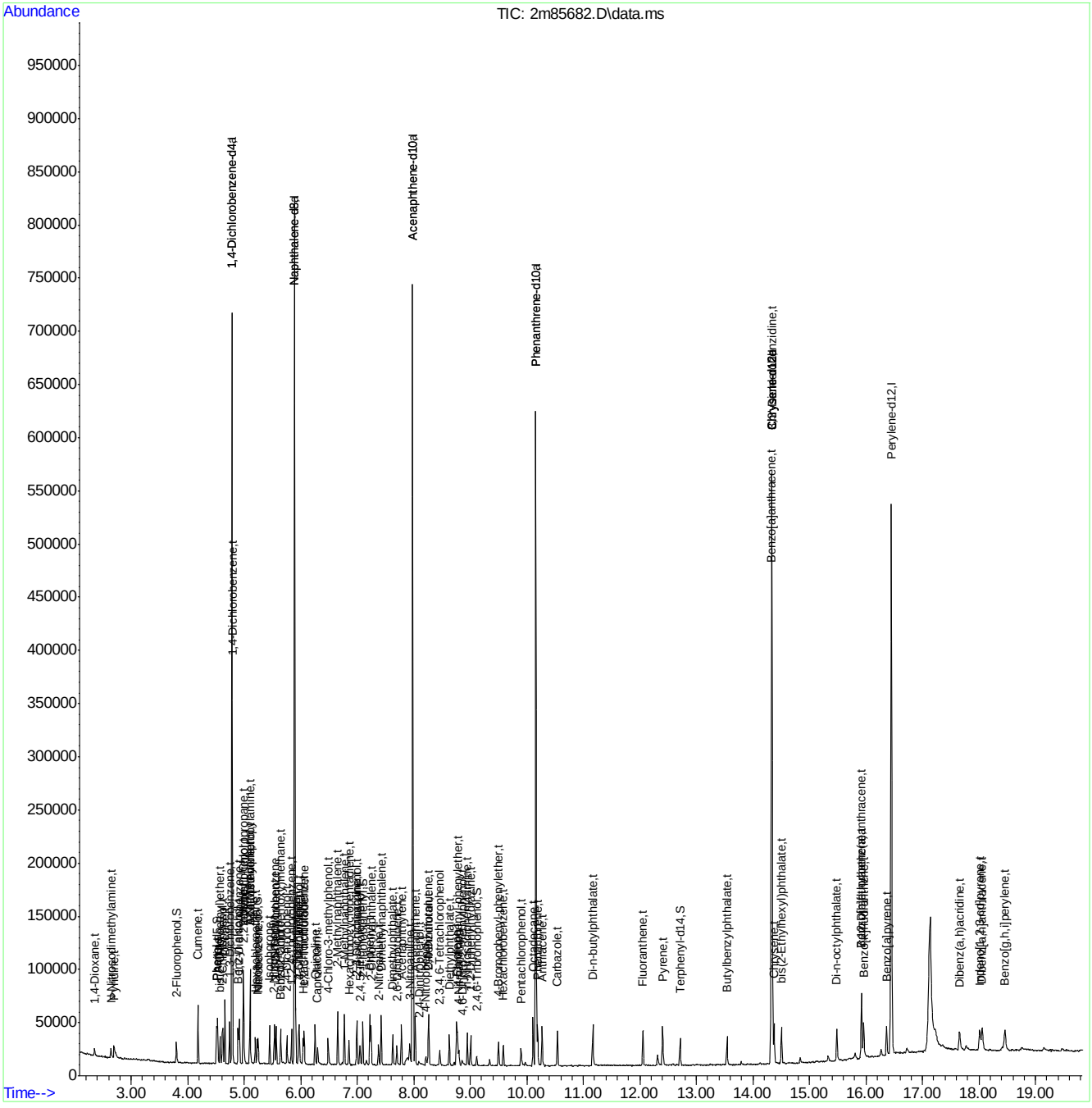
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC24978

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E2M3789\
Data File : 2m85682.D
Acq On : 20 Jul 2016 11:48 am
Operator : ashleyn
Sample : ic3789-2
Misc : op95288,e2m3789
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jul 20 14:28:55 2016
Quant Method : C:\MSDCHEM\1\METHODS\M2M3789.M
Quant Title : Semi Volatile GC/MS,rxi 5sil ms 30m .25mm .25um
QLast Update : Wed Jul 20 14:28:40 2016
Response via : Initial Calibration



M2M3789.M Wed Jul 20 14:29:03 2016 Page: 4

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E2M3789\
Data File : 2m85683.D
Acq On : 20 Jul 2016 12:14 pm
Operator : ashleyn
Sample : ic3789-5
Misc : op95288,e2m3789
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jul 20 14:30:00 2016
Quant Method : C:\MSDCHEM\1\METHODS\M2M3789.M
Quant Title : Semi Volatile GC/MS,rxi 5sil ms 30m .25mm .25um
QLast Update : Wed Jul 20 14:29:08 2016
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.782	152	82521	40.00	ppm	0.00
24) Naphthalene-d8	5.890	136	324145	40.00	ppm	0.00
47) Acenaphthene-d10	7.981	164	179864	40.00	ppm	0.00
69) Phenanthrene-d10	10.158	188	280980	40.00	ppm	0.00
83) Chrysene-d12	14.335	240	229252	40.00	ppm	0.00
91) Perylene-d12	16.448	264	229664	40.00	ppm	0.00
101) 1,4-Dichlorobenzene-d4a	4.782	152	82521	40.00	ppm	0.00
103) Acenaphthene-d10a	7.981	164	179864	40.00	ppm	0.00
105) Chrysene-d12a	14.335	240	229252	40.00	ppm	0.00
108) Phenanthrene-d10a	10.158	188	280980	40.00	ppm	0.00
111) Naphthalene-d8a	5.890	136	324145	40.00	ppm	0.00
113) Chrysene-d12b	14.335	240	229252	40.00	ppm	0.00

System Monitoring Compounds						
5) 2-Fluorophenol	3.804	112	14496	5.04	ppm	-0.02
Spiked Amount 50.000			Recovery	=	10.08%	
8) Phenol-d5	4.510	99	18723	5.03	ppm	0.00
Spiked Amount 50.000			Recovery	=	10.06%	
25) Nitrobenzene-d5	5.226	82	15196	5.04	ppm	0.00
Spiked Amount 50.000			Recovery	=	10.08%	
51) 2-Fluorobiphenyl	7.098	172	30349	5.44	ppm	0.00
Spiked Amount 50.000			Recovery	=	10.88%	
73) 2,4,6-Tribromophenol	9.115	330	2935	5.31	ppm	-0.01
Spiked Amount 50.000			Recovery	=	10.62%	
85) Terphenyl-d14	12.709	244	23915	5.02	ppm	-0.02
Spiked Amount 50.000			Recovery	=	10.04%	
107) 1-chlorooctadecane	0.000	57	0d	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
110) o-terphenyl	0.000	230	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	

Target Compounds						Qvalue
2) 1,4-Dioxane	2.354	88	7318	4.38	ppm	98
3) Pyridine	2.686	79	17948	4.79	ppm	93
4) N-Nitrosodimethylamine	2.643	74	10288	4.91	ppm	92
6) Indene	4.986	116	30504	5.63	ppm	99
7) Cumene	4.183	105	39208	5.15	ppm	97
9) Phenol	4.520	94	23021	5.41	ppm	97
10) Aniline	4.531	93	27695	5.28	ppm	95
11) bis(2-Chloroethyl)ether	4.574	93	16115	5.17	ppm	96
12) 2-Chlorophenol	4.627	128	16873	5.29	ppm	96
13) Decane	4.659	43	21264	5.29	ppm	92
14) 1,3-Dichlorobenzene	4.740	146	17693	5.25	ppm	96
15) 1,4-Dichlorobenzene	4.793	146	17770	5.32	ppm	98
16) Benzyl alcohol	4.889	108	11153	5.21	ppm	96
17) 1,2-Dichlorobenzene	4.916	146	16921	5.42	ppm	95
18) Acetophenone	5.098	105	22633	5.57	ppm	95
19) 2-Methylphenol	4.980	108	15676	5.75	ppm	98
20) 2,2'-oxybis(1-Chloropr...	4.991	45	26071	5.21	ppm	95
21) 3&4-Methylphenol	5.103	108	16346	5.66	ppm	99

SGS ACCUTEST JC24978

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E2M3789\
Data File : 2m85683.D
Acq On : 20 Jul 2016 12:14 pm
Operator : ashleyn
Sample : ic3789-5
Misc : op95288,e2m3789
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jul 20 14:30:00 2016
Quant Method : C:\MSDCHEM\1\METHODS\M2M3789.M
Quant Title : Semi Volatile GC/MS,rxi 5sil ms 30m .25mm .25um
QLast Update : Wed Jul 20 14:29:08 2016
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
22) n-Nitroso-di-n-propyla...	5.098	70	11461	5.58	ppm		86
23) Hexachloroethane	5.194	201	4991	5.28	ppm	#	82
26) Nitrobenzene	5.242	77	16950	5.25	ppm		86
27) Quinoline	6.253	129	32342	5.22	ppm		99
28) Isophorone	5.451	82	29489	5.22	ppm		98
29) 2-Nitrophenol	5.526	139	8080	5.29	ppm		87
30) 2,4-Dimethylphenol	5.563	107	15290	5.34	ppm		98
31) Benzoic acid	5.644	105	4961	1.97	ppm		88
32) bis(2-Chloroethoxy)met...	5.644	93	18151	5.32	ppm		99
33) 2,4-Dichlorophenol	5.756	162	12350	5.40	ppm		97
34) 2,6-Dichlorophenol	5.975	162	12592	5.52	ppm		97
35) 1,3,5-Trichlorobenzene	5.537	180	13819	5.30	ppm		97
36) 1,2,4-Trichlorobenzene	5.836	180	12842	5.36	ppm		94
37) 1,2,3-Trichlorobenzene	6.061	180	12905	5.50	ppm		93
38) Naphthalene	5.911	128	47012	5.32	ppm		99
39) 4-Chloroaniline	5.959	127	21079	5.50	ppm		96
40) 2,3-Dichloroaniline	6.991	161	15435	5.50	ppm		95
41) Caprolactam	6.296	55	7507	5.06	ppm		94
42) Hexachlorobutadiene	6.039	225	5967	5.36	ppm		95
43) 4-Chloro-3-methylphenol	6.483	107	12868	5.24	ppm		99
44) 2-Methylnaphthalene	6.654	141	27509	5.49	ppm		98
45) 1-Methylnaphthalene	6.767	141	27013	5.33	ppm		94
46) Dimethylnaphthalene	7.425	156	27676	5.38	ppm		97
48) Hexachlorocyclopentadiene	6.852	237	8596	9.94	ppm		96
49) 2,4,6-Trichlorophenol	6.997	196	7511	5.26	ppm		93
50) 2,4,5-Trichlorophenol	7.045	196	8236	5.42	ppm		99
52) 2-Chloronaphthalene	7.243	162	27415	5.43	ppm		97
53) Biphenyl	7.221	154	37886	5.38	ppm		97
54) 2-Nitroaniline	7.377	65	8622	5.25	ppm		95
55) Dimethylphthalate	7.628	163	29396	5.32	ppm		98
56) Acenaphthylene	7.783	152	44467	5.35	ppm		99
57) 2,6-Dinitrotoluene	7.697	165	5656	5.42	ppm		91
58) 3-Nitroaniline	7.927	138	8348	5.43	ppm		97
59) Acenaphthene	8.024	153	27740	5.29	ppm		97
60) 2,4-Dinitrophenol	8.083	184	2314	4.72	ppm	#	86
61) 4-Nitrophenol	8.211	109	2857	4.35	ppm	#	86
62) Dibenzofuran	8.264	168	41636	5.50	ppm		93
63) 2,4-Dinitrotoluene	8.254	165	8165	5.97	ppm		87
64) 2,3,4,6-Tetrachlorophenol	8.457	232	5398	5.27	ppm		86
65) Diethylphthalate	8.628	149	28926	5.35	ppm		93
66) Fluorene	8.756	166	30658	5.36	ppm		99
67) 4-Chlorophenyl-phenyle...	8.772	204	13070	5.25	ppm		78
68) 4-Nitroaniline	8.794	138	8268	5.71	ppm		94
70) 4,6-Dinitro-2-methylph...	8.847	198	2643	2.59	ppm		97
71) n-Nitrosodiphenylamine	8.949	169	20543	5.19	ppm		95
72) 1,2-Diphenylhydrazine	9.002	77	31533	5.35	ppm		85
74) 4-Bromophenyl-phenylether	9.500	248	6487	5.06	ppm	#	77
75) Hexachlorobenzene	9.580	284	7274	5.18	ppm		78
76) Pentachlorophenol	9.896	266	6408	8.55	ppm		95
77) Phenanthrene	10.190	178	43848	5.37	ppm		96

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E2M3789\
Data File : 2m85683.D
Acq On : 20 Jul 2016 12:14 pm
Operator : ashleyn
Sample : ic3789-5
Misc : op95288,e2m3789
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jul 20 14:30:00 2016
Quant Method : C:\MSDCHEM\1\METHODS\M2M3789.M
Quant Title : Semi Volatile GC/MS,rxi 5sil ms 30m .25mm .25um
QLast Update : Wed Jul 20 14:29:08 2016
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
78) Anthracene	10.270	178	42360	5.31 ppm	100
79) Carbazole	10.538	167	42724	5.26 ppm	98
80) Di-n-butylphthalate	11.163	149	46616	5.16 ppm	100
81) Fluoranthene	12.051	202	40565	5.22 ppm	96
82) Octadecane	10.110	57	22666	5.17 ppm	97
84) Pyrene	12.399	202	44363	5.31 ppm	98
86) Butylbenzylphthalate	13.538	149	19459	4.91 ppm	90
87) Benzo[a]anthracene	14.319	228	34435	4.90 ppm	98
88) 3,3'-Dichlorobenzidine	14.324	252	12049	5.42 ppm	96
89) Chrysene	14.373	228	36163	5.06 ppm	98
90) bis(2-Ethylhexyl)phtha...	14.501	149	27483	4.59 ppm	92
92) Di-n-octylphthalate	15.485	149	46109	4.98 ppm	99
93) Benzo[b]fluoranthene	15.918	252	35742	5.07 ppm	94
94) Benzo[k]fluoranthene	15.961	252	35598	5.35 ppm	90
95) Benzo[a]pyrene	16.362	252	31799	5.13 ppm	86
96) Indeno[1,2,3-cd]pyrene	18.010	276	30560	5.08 ppm	76
97) Dibenz(a,h)acridine	17.651	279	28069	4.98 ppm	98
98) Dibenz[a,h]anthracene	18.052	278	32486	5.12 ppm	90
99) 7,12-Dimethylbenz(a)an...	15.924	256	16827	5.42 ppm	91
100) Benzo[g,h,i]perylene	18.459	276	31868	4.96 ppm	80

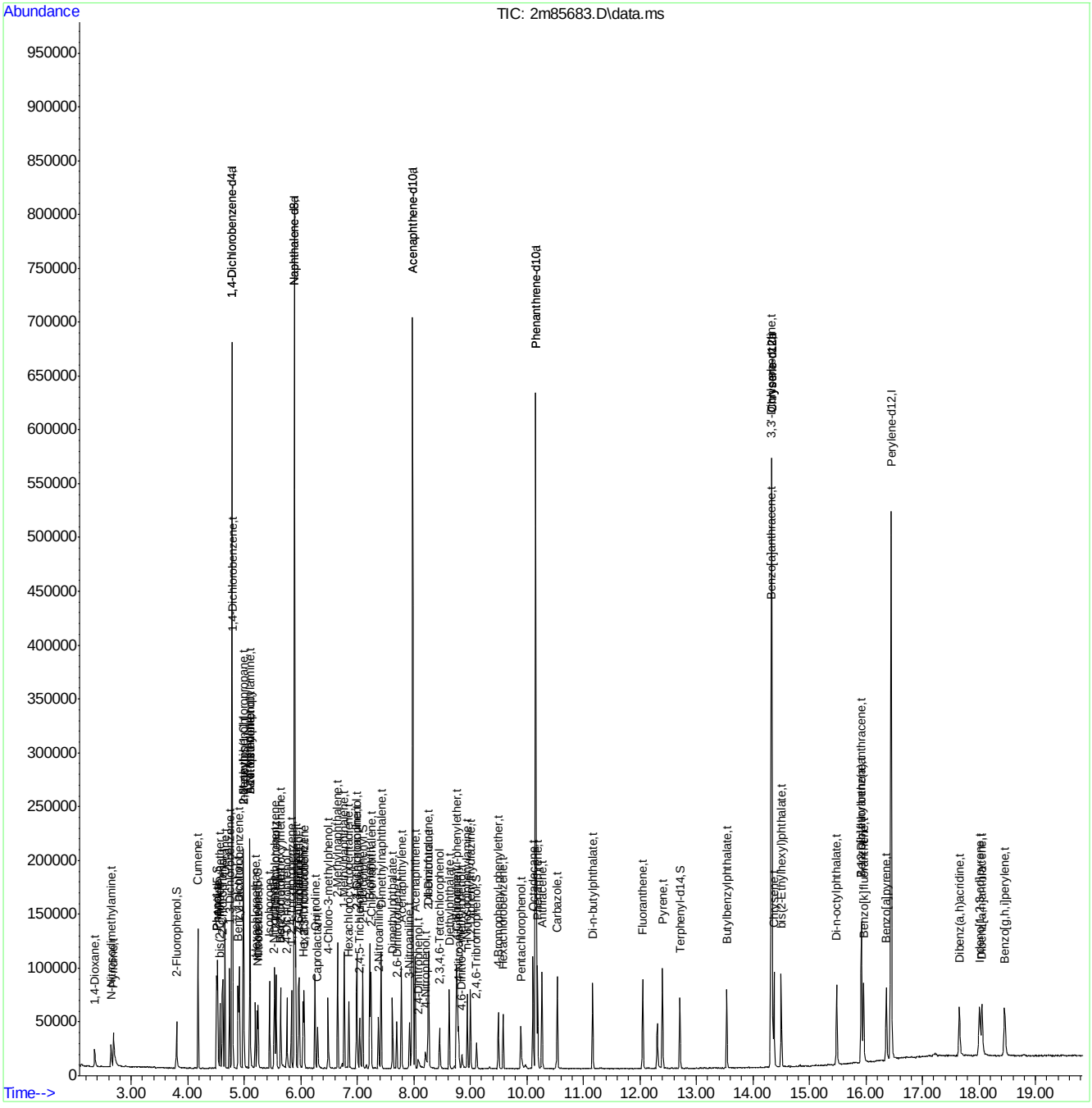
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC24978

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E2M3789\
Data File : 2m85683.D
Acq On : 20 Jul 2016 12:14 pm
Operator : ashleyn
Sample : ic3789-5
Misc : op95288,e2m3789
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jul 20 14:30:00 2016
Quant Method : C:\MSDCHEM\1\METHODS\M2M3789.M
Quant Title : Semi Volatile GC/MS,rxi 5sil ms 30m .25mm .25um
QLast Update : Wed Jul 20 14:29:08 2016
Response via : Initial Calibration



SGS ACCUTEST JC24978

Manual Integrations APPROVED (compounds with "m" flag)
Kristi Schollenberger 07/22/16 11:05

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E2M3789\
Data File : 2m85684.D
Acq On : 20 Jul 2016 12:40 pm
Operator : ashleyn
Sample : ic3789-10
Misc : op95288,e2m3789
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jul 20 14:31:29 2016
Quant Method : C:\MSDCHEM\1\METHODS\M2M3789.M
Quant Title : Semi Volatile GC/MS,rxi 5sil ms 30m .25mm .25um
QLast Update : Wed Jul 20 14:30:16 2016
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.782	152	90810	40.00	ppm	0.00
24) Naphthalene-d8	5.890	136	363004	40.00	ppm	0.00
47) Acenaphthene-d10	7.981	164	204242	40.00	ppm	0.00
69) Phenanthrene-d10	10.158	188	319014	40.00	ppm	0.00
83) Chrysene-d12	14.335	240	257757	40.00	ppm	0.00
91) Perylene-d12	16.448	264	253187	40.00	ppm	0.00
101) 1,4-Dichlorobenzene-d4a	4.782	152	90810	40.00	ppm	0.00
103) Acenaphthene-d10a	7.981	164	204242	40.00	ppm	0.00
105) Chrysene-d12a	14.335	240	257757	40.00	ppm	0.00
108) Phenanthrene-d10a	10.158	188	319014	40.00	ppm	0.00
111) Naphthalene-d8a	5.890	136	363004	40.00	ppm	0.00
113) Chrysene-d12b	14.335	240	257757	40.00	ppm	0.00

System Monitoring Compounds						
5) 2-Fluorophenol	3.798	112	32362	10.21	ppm	-0.02
Spiked Amount 50.000			Recovery = 20.42%			
8) Phenol-d5	4.510	99	41221	10.05	ppm	0.00
Spiked Amount 50.000			Recovery = 20.10%			
25) Nitrobenzene-d5	5.226	82	33425	9.88	ppm	0.00
Spiked Amount 50.000			Recovery = 19.76%			
51) 2-Fluorobiphenyl	7.098	172	65216	10.07	ppm	0.00
Spiked Amount 50.000			Recovery = 20.14%			
73) 2,4,6-Tribromophenol	9.109	330	6697	10.51	ppm	-0.02
Spiked Amount 50.000			Recovery = 21.02%			
85) Terphenyl-d14	12.709	244	54020	10.08	ppm	-0.02
Spiked Amount 50.000			Recovery = 20.16%			
107) 1-chlorooctadecane	0.000	57	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
110) o-terphenyl	0.000	230	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			

Target Compounds						Qvalue
2) 1,4-Dioxane	2.349	88	15957	8.96	ppm	100
3) Pyridine	2.675	79	40150	9.85	ppm	90
4) N-Nitrosodimethylamine	2.638	74	22864	9.95	ppm	95
6) Indene	4.986	116	64447	10.48	ppm	98
7) Cumene	4.183	105	86262	10.21	ppm	97
9) Phenol	4.515	94	51028	10.67	ppm	96
10) Aniline	4.531	93	60931	10.41	ppm	98
11) bis(2-Chloroethyl)ether	4.574	93	34405	9.94	ppm	95
12) 2-Chlorophenol	4.622	128	36830	10.34	ppm	97
13) Decane	4.659	43	45786	10.20	ppm	94
14) 1,3-Dichlorobenzene	4.740	146	38442	10.24	ppm	99
15) 1,4-Dichlorobenzene	4.793	146	38803	10.39	ppm	100
16) Benzyl alcohol	4.889	108	24173	10.16	ppm	96
17) 1,2-Dichlorobenzene	4.916	146	36410	10.37	ppm	97
18) Acetophenone	5.098	105	49358	10.73	ppm	96
19) 2-Methylphenol	4.980	108	34355	11.04	ppm	97
20) 2,2'-oxybis(1-Chloropr...	4.996	45	56618	10.18	ppm	94
21) 3&4-Methylphenol	5.103	108	35840	10.92	ppm	97

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E2M3789\
Data File : 2m85684.D
Acq On : 20 Jul 2016 12:40 pm
Operator : ashleyn
Sample : ic3789-10
Misc : op95288,e2m3789
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jul 20 14:31:29 2016
Quant Method : C:\MSDCHEM\1\METHODS\M2M3789.M
Quant Title : Semi Volatile GC/MS,rxi 5sil ms 30m .25mm .25um
QLast Update : Wed Jul 20 14:30:16 2016
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
22) n-Nitroso-di-n-propyla...	5.098	70	25175	10.82	ppm		87
23) Hexachloroethane	5.194	201	10923	10.36	ppm	#	80
26) Nitrobenzene	5.242	77	36038	9.84	ppm		91
27) Quinoline	6.253	129	69797	9.95	ppm		99
28) Isophorone	5.451	82	63682	9.96	ppm		99
29) 2-Nitrophenol	5.526	139	18412	10.61	ppm		88
30) 2,4-Dimethylphenol	5.563	107	33709	10.34	ppm		97
31) Benzoic acid	5.654	105	15670m	7.98	ppm		
32) bis(2-Chloroethoxy)met...	5.644	93	40022	10.31	ppm		99
33) 2,4-Dichlorophenol	5.756	162	27487	10.52	ppm		98
34) 2,6-Dichlorophenol	5.975	162	27373	10.45	ppm		97
35) 1,3,5-Trichlorobenzene	5.542	180	30200	10.19	ppm		96
36) 1,2,4-Trichlorobenzene	5.836	180	27697	10.14	ppm		93
37) 1,2,3-Trichlorobenzene	6.061	180	28100	10.44	ppm		96
38) Naphthalene	5.911	128	102998	10.25	ppm		99
39) 4-Chloroaniline	5.959	127	46817	10.64	ppm		94
40) 2,3-Dichloroaniline	6.991	161	33502	10.41	ppm		95
41) Caprolactam	6.307	55	16652	9.99	ppm		94
42) Hexachlorobutadiene	6.039	225	12758	10.06	ppm		96
43) 4-Chloro-3-methylphenol	6.483	107	29683	10.66	ppm		95
44) 2-Methylnaphthalene	6.654	141	58829	10.23	ppm		97
45) 1-Methylnaphthalene	6.767	141	58040	10.07	ppm		93
46) Dimethylnaphthalene	7.425	156	60016	10.22	ppm		98
48) Hexachlorocyclopentadiene	6.852	237	23168	23.64	ppm		97
49) 2,4,6-Trichlorophenol	6.997	196	17078	10.39	ppm		94
50) 2,4,5-Trichlorophenol	7.045	196	18417	10.45	ppm		97
52) 2-Chloronaphthalene	7.243	162	58979	10.07	ppm		97
53) Biphenyl	7.221	154	82766	10.16	ppm		99
54) 2-Nitroaniline	7.376	65	19612	10.39	ppm		96
55) Dimethylphthalate	7.628	163	63395	9.94	ppm		98
56) Acenaphthylene	7.783	152	98636	10.27	ppm		100
57) 2,6-Dinitrotoluene	7.697	165	13431	11.10	ppm		94
58) 3-Nitroaniline	7.927	138	18944	10.62	ppm		98
59) Acenaphthene	8.024	153	60830	10.07	ppm		95
60) 2,4-Dinitrophenol	8.072	184	9055	19.73	ppm	#	82
61) 4-Nitrophenol	8.200	109	6631	9.30	ppm	#	23
62) Dibenzofuran	8.264	168	89556	10.16	ppm		94
63) 2,4-Dinitrotoluene	8.254	165	18964	11.64	ppm		85
64) 2,3,4,6-Tetrachlorophenol	8.457	232	12331	10.46	ppm		87
65) Diethylphthalate	8.628	149	63289	10.13	ppm		93
66) Fluorene	8.756	166	67091	10.15	ppm		98
67) 4-Chlorophenyl-phenyle...	8.772	204	28383	9.91	ppm		79
68) 4-Nitroaniline	8.794	138	19093	11.21	ppm		94
70) 4,6-Dinitro-2-methylph...	8.847	198	8076	9.19	ppm		82
71) n-Nitrosodiphenylamine	8.949	169	45142	9.95	ppm		95
72) 1,2-Diphenylhydrazine	9.002	77	69539	10.21	ppm		87
74) 4-Bromophenyl-phenylether	9.500	248	14156	9.70	ppm	#	77
75) Hexachlorobenzene	9.580	284	15960	9.92	ppm		80
76) Pentachlorophenol	9.890	266	16663	20.57	ppm		92
77) Phenanthrene	10.190	178	92353	9.78	ppm		97

SGS ACCUTEST JC24978

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E2M3789\
Data File : 2m85684.D
Acq On : 20 Jul 2016 12:40 pm
Operator : ashleyn
Sample : ic3789-10
Misc : op95288,e2m3789
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jul 20 14:31:29 2016
Quant Method : C:\MSDCHEM\1\METHODS\M2M3789.M
Quant Title : Semi Volatile GC/MS,rxi 5sil ms 30m .25mm .25um
QLast Update : Wed Jul 20 14:30:16 2016
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
78) Anthracene	10.270	178	94281	10.25 ppm	100
79) Carbazole	10.538	167	91800	9.83 ppm	98
80) Di-n-butylphthalate	11.163	149	104313	10.09 ppm	99
81) Fluoranthene	12.051	202	88536	9.92 ppm	94
82) Octadecane	10.110	57	50591	10.08 ppm	96
84) Pyrene	12.399	202	95211	9.98 ppm	98
86) Butylbenzylphthalate	13.538	149	43962	9.91 ppm	90
87) Benzo[a]anthracene	14.319	228	74512	9.48 ppm	98
88) 3,3'-Dichlorobenzidine	14.324	252	26564	10.41 ppm	95
89) Chrysene	14.372	228	78043	9.69 ppm	98
90) bis(2-Ethylhexyl)phtha...	14.501	149	60516	9.18 ppm	90
92) Di-n-octylphthalate	15.485	149	103672	10.17 ppm	100
93) Benzo[b]fluoranthene	15.924	252	76639	9.82 ppm	93
94) Benzo[k]fluoranthene	15.961	252	77151	10.34 ppm	90
95) Benzo[a]pyrene	16.362	252	68754	9.99 ppm	88
96) Indeno[1,2,3-cd]pyrene	18.015	276	65655	9.86 ppm	76
97) Dibenz(a,h)acridine	17.657	279	60788	9.80 ppm	97
98) Dibenz[a,h]anthracene	18.052	278	69751	9.91 ppm	90
99) 7,12-Dimethylbenz(a)an...	15.924	256	36270	10.38 ppm	91
100) Benzo[g,h,i]perylene	18.459	276	70223	9.93 ppm	82

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

7.6.5

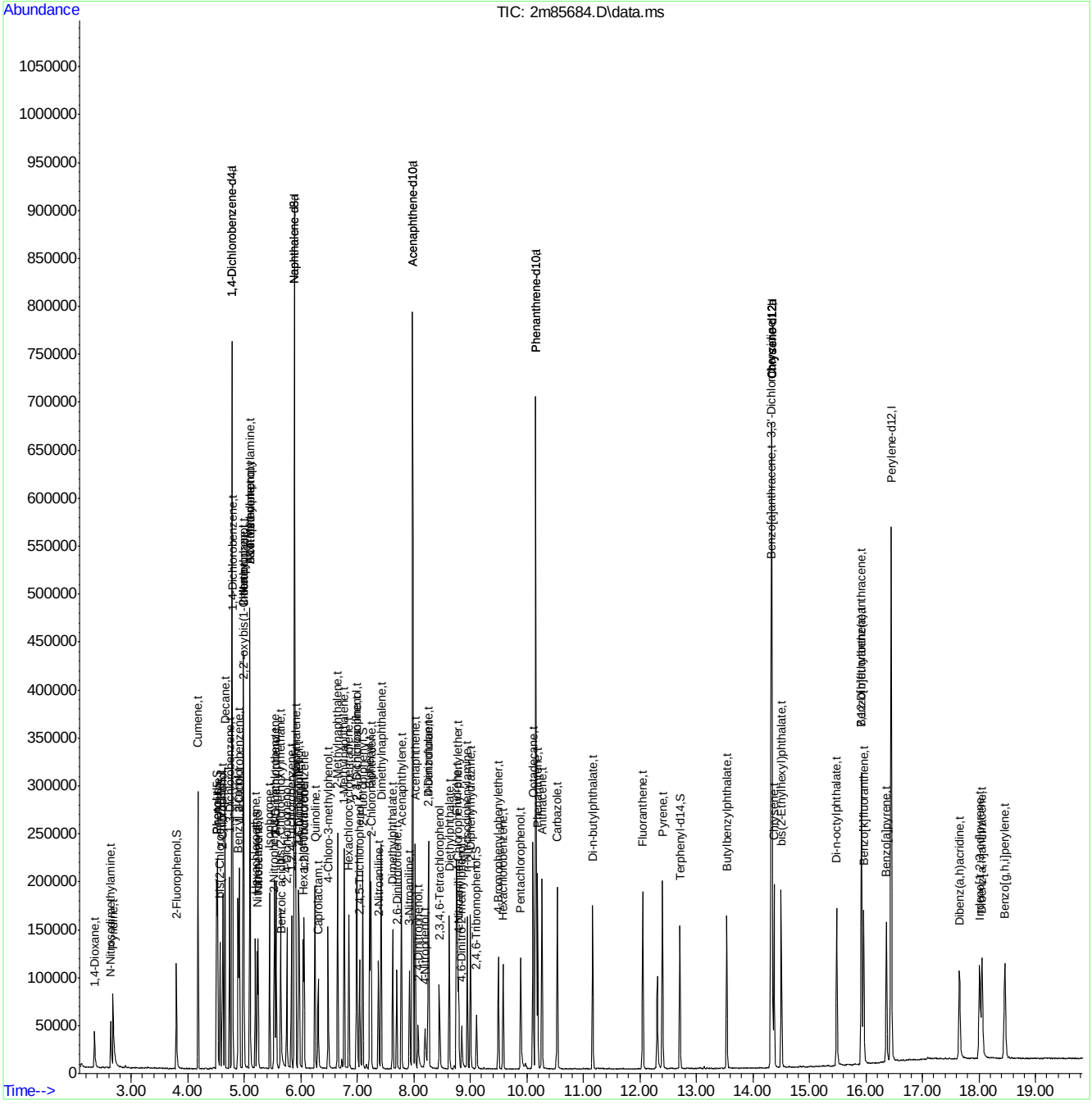
7

SGS ACCUTEST JC24978

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E2M3789\
Data File : 2m85684.D
Acq On : 20 Jul 2016 12:40 pm
Operator : ashleyn
Sample : ic3789-10
Misc : op95288,e2m3789
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jul 20 14:31:29 2016
Quant Method : C:\MSDCHEM\1\METHODS\M2M3789.M
Quant Title : Semi Volatile GC/MS,rxi 5sil ms 30m .25mm .25um
QLast Update : Wed Jul 20 14:30:16 2016
Response via : Initial Calibration



Manual Integration Approval Summary

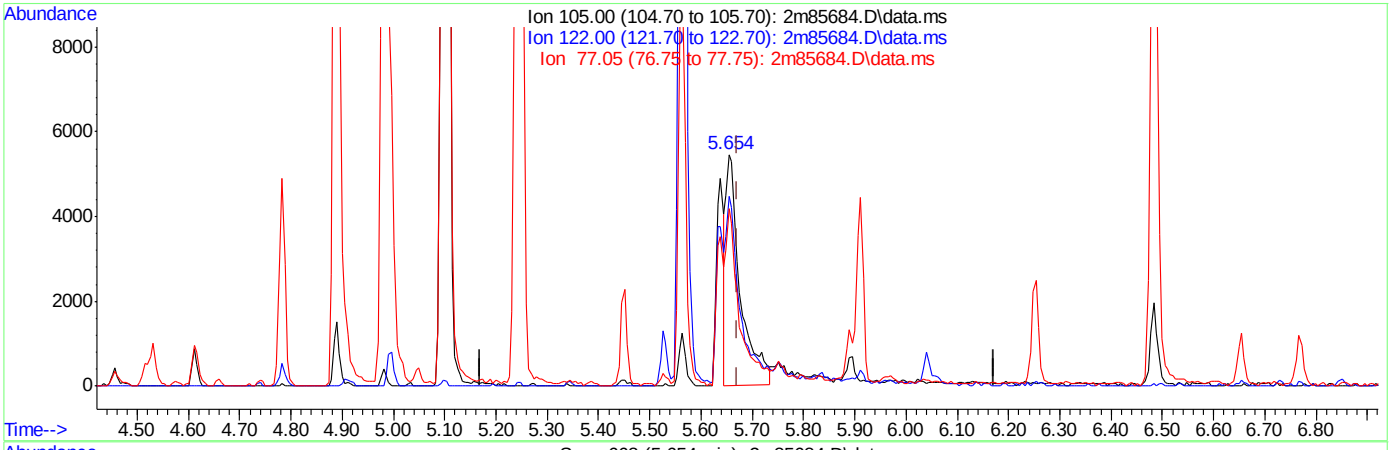
Sample Number:	E2M3789-IC3789	**Method:**	SW846 8270D
Lab FileID:	2M85684.D	**Analyst approved:**	07/20/16 15:38 Ashley Noble
Injection Time:	07/20/16 12:40	**Supervisor approved:**	07/22/16 11:05 Kristi Schollenberger

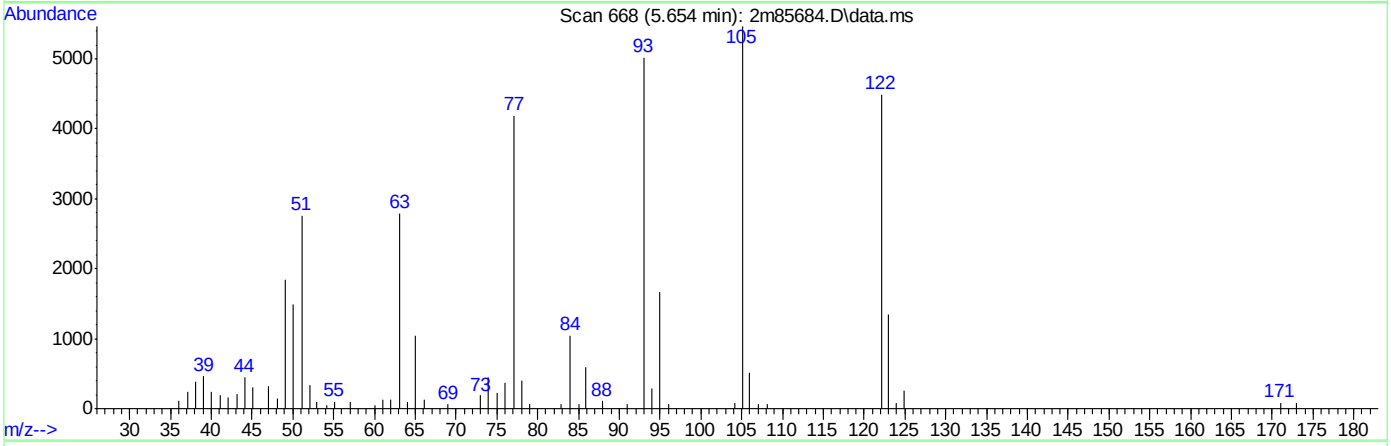
Parameter	CAS	Sig#	R.T. (min.)	Reason
Benzoic acid	65-85-0		5.65	Split peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E2M3789\
Data File : 2m85684.D
Acq On : 20 Jul 2016 12:40 pm
Operator : ashleyn
Sample : ic3789-10
Misc : op95288,e2m3789
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jul 20 14:30:41 2016
Quant Method : C:\MSDCHEM\1\METHODS\M2M3789.M
Quant Title : Semi Volatile GC/MS,rxi 5sil ms 30m .25mm .25um
QLast Update : Wed Jul 20 14:30:16 2016
Response via : Initial Calibration





TIC: 2m85684.D\data.ms

(31) Benzoic acid (t)

5.654min (-0.017) 5.53ppm

response 10858

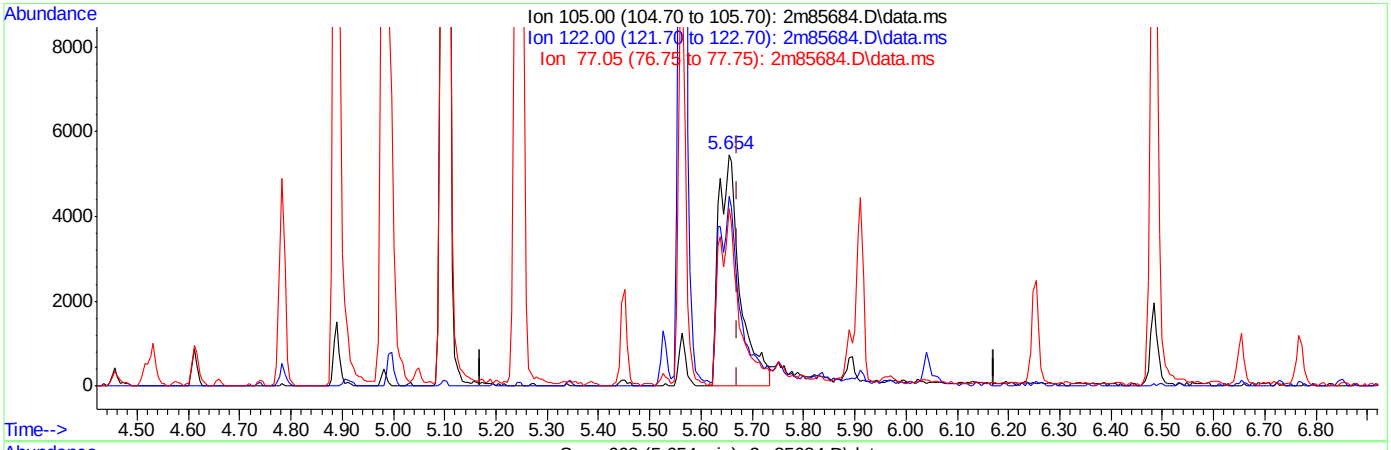
Ion	Exp%	Act%
105.00	100	100
122.00	85.70	84.38
77.05	65.00	80.84
0.00	0.00	0.00

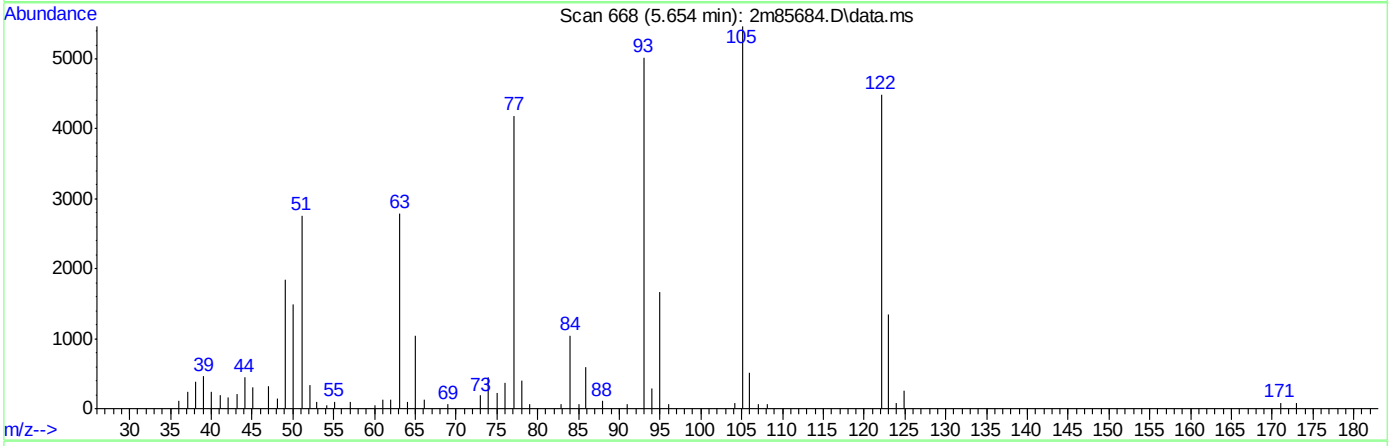
SGS ACCUTEST JC24978

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E2M3789\
Data File : 2m85684.D
Acq On : 20 Jul 2016 12:40 pm
Operator : ashleyn
Sample : ic3789-10
Misc : op95288,e2m3789
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jul 20 14:30:41 2016
Quant Method : C:\MSDCHEM\1\METHODS\M2M3789.M
Quant Title : Semi Volatile GC/MS,rxi 5sil ms 30m .25mm .25um
QLast Update : Wed Jul 20 14:30:16 2016
Response via : Initial Calibration





(31) Benzoic acid (t)

5.654min (-0.017) 7.98ppm m

response 15670

Ion	Exp%	Act%
105.00	100	100
122.00	85.70	82.14
77.05	65.00	76.58
0.00	0.00	0.00

SGS ACCUTEST JC24978

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E2M3789\
Data File : 2m85685.D
Acq On : 20 Jul 2016 1:06 pm
Operator : ashleyn
Sample : ic3789-25
Misc : op95288,e2m3789
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jul 20 14:33:19 2016
Quant Method : C:\MSDCHEM\1\METHODS\M2M3789.M
Quant Title : Semi Volatile GC/MS,rxi 5sil ms 30m .25mm .25um
QLast Update : Wed Jul 20 14:32:33 2016
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.783	152	88536	40.00	ppm	0.00
24) Naphthalene-d8	5.890	136	354598	40.00	ppm	0.00
47) Acenaphthene-d10	7.981	164	202830	40.00	ppm	0.00
69) Phenanthrene-d10	10.158	188	315677	40.00	ppm	0.00
83) Chrysene-d12	14.335	240	255125	40.00	ppm	0.00
91) Perylene-d12	16.448	264	254814	40.00	ppm	0.00
101) 1,4-Dichlorobenzene-d4a	4.783	152	88536	40.00	ppm	0.00
103) Acenaphthene-d10a	7.981	164	202830	40.00	ppm	0.00
105) Chrysene-d12a	14.335	240	255125	40.00	ppm	0.00
108) Phenanthrene-d10a	10.158	188	315677	40.00	ppm	0.00
111) Naphthalene-d8a	5.890	136	354598	40.00	ppm	0.00
113) Chrysene-d12b	14.335	240	255125	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	3.798	112	75631	24.37	ppm	-0.02
Spiked Amount 50.000			Recovery = 48.74%			
8) Phenol-d5	4.510	99	96058	23.99	ppm	0.00
Spiked Amount 50.000			Recovery = 47.98%			
25) Nitrobenzene-d5	5.226	82	80044	24.28	ppm	0.00
Spiked Amount 50.000			Recovery = 48.56%			
51) 2-Fluorobiphenyl	7.098	172	148443	23.05	ppm	0.00
Spiked Amount 50.000			Recovery = 46.10%			
73) 2,4,6-Tribromophenol	9.115	330	16110	25.30	ppm	-0.01
Spiked Amount 50.000			Recovery = 50.60%			
85) Terphenyl-d14	12.709	244	126022	23.72	ppm	-0.02
Spiked Amount 50.000			Recovery = 47.44%			
107) 1-chlorooctadecane	0.000	57	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
110) o-terphenyl	0.000	230	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
Target Compounds						Qvalue
2) 1,4-Dioxane	2.344	88	37507	22.06	ppm	98
3) Pyridine	2.664	79	95505	24.10	ppm	89
4) N-Nitrosodimethylamine	2.632	74	54806	24.50	ppm	95
6) Indene	4.986	116	145008	23.96	ppm	98
7) Cumene	4.183	105	198371	23.99	ppm	97
9) Phenol	4.515	94	117430	24.86	ppm	93
10) Aniline	4.531	93	135301	23.52	ppm	98
11) bis(2-Chloroethyl)ether	4.574	93	80082	23.77	ppm	95
12) 2-Chlorophenol	4.622	128	84385	24.14	ppm	97
13) Decane	4.660	43	107104	24.38	ppm	92
14) 1,3-Dichlorobenzene	4.740	146	87037	23.67	ppm	97
15) 1,4-Dichlorobenzene	4.793	146	87648	23.88	ppm	99
16) Benzyl alcohol	4.889	108	57598	24.74	ppm	98
17) 1,2-Dichlorobenzene	4.916	146	81725	23.71	ppm	99
18) Acetophenone	5.103	105	109731	24.11	ppm	99
19) 2-Methylphenol	4.980	108	75687	24.43	ppm	99
20) 2,2'-oxybis(1-Chloropr...	4.996	45	132011	24.26	ppm	93
21) 3&4-Methylphenol	5.103	108	78943	24.23	ppm	97

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E2M3789\
Data File : 2m85685.D
Acq On : 20 Jul 2016 1:06 pm
Operator : ashleyn
Sample : ic3789-25
Misc : op95288,e2m3789
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jul 20 14:33:19 2016
Quant Method : C:\MSDCHEM\1\METHODS\M2M3789.M
Quant Title : Semi Volatile GC/MS,rxi 5sil ms 30m .25mm .25um
QLast Update : Wed Jul 20 14:32:33 2016
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
22) n-Nitroso-di-n-propyla...	5.098	70	56061	24.32	ppm		82
23) Hexachloroethane	5.194	201	25198	24.33	ppm	#	78
26) Nitrobenzene	5.242	77	84382	23.67	ppm		90
27) Quinoline	6.253	129	162111	23.68	ppm		99
28) Isophorone	5.451	82	148877	23.85	ppm		99
29) 2-Nitrophenol	5.526	139	44050	25.67	ppm		88
30) 2,4-Dimethylphenol	5.563	107	75424	23.52	ppm		94
31) Benzoic acid	5.654	105	51689	28.88	ppm		92
32) bis(2-Chloroethoxy)met...	5.644	93	93392	24.48	ppm		99
33) 2,4-Dichlorophenol	5.756	162	63886	24.77	ppm		97
34) 2,6-Dichlorophenol	5.975	162	62845	24.33	ppm		98
35) 1,3,5-Trichlorobenzene	5.542	180	67673	23.29	ppm		95
36) 1,2,4-Trichlorobenzene	5.836	180	63631	23.78	ppm		92
37) 1,2,3-Trichlorobenzene	6.061	180	63614	23.97	ppm		97
38) Naphthalene	5.911	128	231798	23.49	ppm		99
39) 4-Chloroaniline	5.965	127	104223	23.95	ppm		95
40) 2,3-Dichloroaniline	6.992	161	75268	23.74	ppm		97
41) Caprolactam	6.323	55	40902	25.12	ppm		96
42) Hexachlorobutadiene	6.039	225	29249	23.58	ppm		94
43) 4-Chloro-3-methylphenol	6.483	107	69054	25.06	ppm		98
44) 2-Methylnaphthalene	6.655	141	134021	23.74	ppm		97
45) 1-Methylnaphthalene	6.772	141	135361	24.00	ppm		99
46) Dimethylnaphthalene	7.425	156	135593	23.54	ppm		99
48) Hexachlorocyclopentadiene	6.852	237	60686	59.63	ppm		99
49) 2,4,6-Trichlorophenol	6.997	196	40481	24.61	ppm		98
50) 2,4,5-Trichlorophenol	7.045	196	43157	24.44	ppm		97
52) 2-Chloronaphthalene	7.243	162	132958	22.84	ppm		97
53) Biphenyl	7.221	154	185232	22.83	ppm		99
54) 2-Nitroaniline	7.377	65	47541	25.16	ppm		98
55) Dimethylphthalate	7.628	163	146651	23.18	ppm		98
56) Acenaphthylene	7.783	152	226121	23.58	ppm		98
57) 2,6-Dinitrotoluene	7.698	165	33978	27.67	ppm		94
58) 3-Nitroaniline	7.928	138	46098	25.70	ppm		97
59) Acenaphthene	8.024	153	138037	22.98	ppm		97
60) 2,4-Dinitrophenol	8.072	184	33142	72.95	ppm	#	84
61) 4-Nitrophenol	8.195	109	17630	25.33	ppm		90
62) Dibenzofuran	8.264	168	200470	22.83	ppm		96
63) 2,4-Dinitrotoluene	8.259	165	45794	27.41	ppm		94
64) 2,3,4,6-Tetrachlorophenol	8.452	232	29675	25.12	ppm		90
65) Diethylphthalate	8.634	149	147207	23.66	ppm		93
66) Fluorene	8.757	166	153127	23.26	ppm		99
67) 4-Chlorophenyl-phenyle...	8.773	204	64365	22.68	ppm		81
68) 4-Nitroaniline	8.799	138	46737	26.98	ppm		94
70) 4,6-Dinitro-2-methylph...	8.847	198	25287	29.89	ppm		77
71) n-Nitrosodiphenylamine	8.949	169	105287	23.48	ppm		97
72) 1,2-Diphenylhydrazine	9.008	77	163940	24.23	ppm		85
74) 4-Bromophenyl-phenylether	9.500	248	33830	23.57	ppm	#	78
75) Hexachlorobenzene	9.580	284	36832	23.17	ppm		82
76) Pentachlorophenol	9.890	266	45799	56.74	ppm		94
77) Phenanthrene	10.195	178	208847	22.45	ppm		97

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E2M3789\
Data File : 2m85685.D
Acq On : 20 Jul 2016 1:06 pm
Operator : ashleyn
Sample : ic3789-25
Misc : op95288,e2m3789
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jul 20 14:33:19 2016
Quant Method : C:\MSDCHEM\1\METHODS\M2M3789.M
Quant Title : Semi Volatile GC/MS,rxi 5sil ms 30m .25mm .25um
QLast Update : Wed Jul 20 14:32:33 2016
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
78) Anthracene	10.270	178	213343	23.32 ppm	99
79) Carbazole	10.538	167	211723	22.99 ppm	98
80) Di-n-butylphthalate	11.169	149	252891	24.67 ppm	99
81) Fluoranthene	12.051	202	206473	23.42 ppm	94
82) Octadecane	10.110	57	121575	24.45 ppm	96
84) Pyrene	12.399	202	221975	23.52 ppm	99
86) Butylbenzylphthalate	13.538	149	109799	25.06 ppm	92
87) Benzo[a]anthracene	14.319	228	175793	22.84 ppm	98
88) 3,3'-Dichlorobenzidine	14.324	252	63657	25.00 ppm	96
89) Chrysene	14.378	228	180768	22.82 ppm	99
90) bis(2-Ethylhexyl)phtha...	14.501	149	151037	23.54 ppm	92
92) Di-n-octylphthalate	15.485	149	259035	25.17 ppm	99
93) Benzo[b]fluoranthene	15.924	252	181330	23.17 ppm	93
94) Benzo[k]fluoranthene	15.967	252	181168	23.96 ppm	87
95) Benzo[a]pyrene	16.368	252	163210	23.58 ppm	85
96) Indeno[1,2,3-cd]pyrene	18.015	276	157210	23.52 ppm	78
97) Dibenz(a,h)acridine	17.657	279	147443	23.71 ppm	98
98) Dibenz[a,h]anthracene	18.058	278	169331	23.94 ppm	87
99) 7,12-Dimethylbenz(a)an...	15.929	256	84159	23.75 ppm	93
100) Benzo[g,h,i]perylene	18.464	276	170297	23.96 ppm	79

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

7.6.6

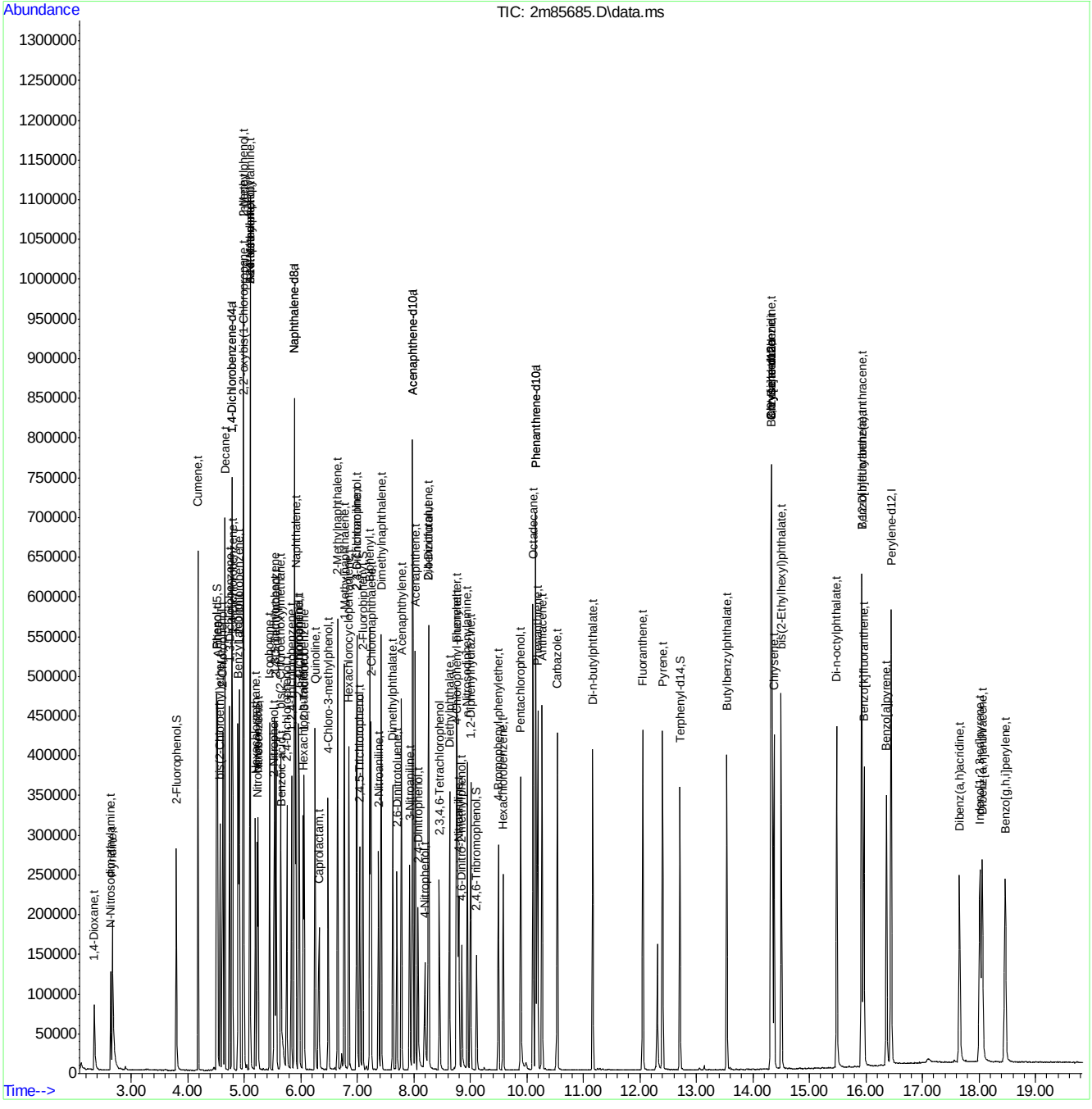
7

SGS ACCUTEST JC24978

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E2M3789\
Data File : 2m85685.D
Acq On : 20 Jul 2016 1:06 pm
Operator : ashleyn
Sample : ic3789-25
Misc : op95288,e2m3789
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jul 20 14:33:19 2016
Quant Method : C:\MSDCHEM\1\METHODS\M2M3789.M
Quant Title : Semi Volatile GC/MS,rxi 5sil ms 30m .25mm .25um
QLast Update : Wed Jul 20 14:32:33 2016
Response via : Initial Calibration



SGS ACCUTEST JC24978

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E2M3789\
Data File : 2m85686.D
Acq On : 20 Jul 2016 1:31 pm
Operator : ashleyn
Sample : icc3789-50
Misc : op95288,e2m3789
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jul 20 14:34:31 2016
Quant Method : C:\MSDCHEM\1\METHODS\M2M3789.M
Quant Title : Semi Volatile GC/MS,rxi 5sil ms 30m .25mm .25um
QLast Update : Wed Jul 20 14:33:31 2016
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.783	152	82820	40.00	ppm	0.00
24) Naphthalene-d8	5.890	136	334354	40.00	ppm	0.00
47) Acenaphthene-d10	7.981	164	190705	40.00	ppm	0.00
69) Phenanthrene-d10	10.158	188	296950	40.00	ppm	0.00
83) Chrysene-d12	14.341	240	242569	40.00	ppm	0.00
91) Perylene-d12	16.448	264	241863	40.00	ppm	0.00
101) 1,4-Dichlorobenzene-d4a	4.783	152	82820	40.00	ppm	0.00
103) Acenaphthene-d10a	7.981	164	190705	40.00	ppm	0.00
105) Chrysene-d12a	14.341	240	242569	40.00	ppm	0.00
108) Phenanthrene-d10a	10.158	188	296950	40.00	ppm	0.00
111) Naphthalene-d8a	5.890	136	334354	40.00	ppm	0.00
113) Chrysene-d12b	14.341	240	242569	40.00	ppm	0.00

System Monitoring Compounds						
5) 2-Fluorophenol	3.798	112	146116	50.55	ppm	-0.02
Spiked Amount 50.000			Recovery = 101.10%			
8) Phenol-d5	4.510	99	178783	48.06	ppm	0.00
Spiked Amount 50.000			Recovery = 96.12%			
25) Nitrobenzene-d5	5.232	82	149883	48.46	ppm	0.00
Spiked Amount 50.000			Recovery = 96.92%			
51) 2-Fluorobiphenyl	7.098	172	270920	45.34	ppm	0.00
Spiked Amount 50.000			Recovery = 90.68%			
73) 2,4,6-Tribromophenol	9.115	330	31760	52.91	ppm	-0.01
Spiked Amount 50.000			Recovery = 105.82%			
85) Terphenyl-d14	12.709	244	238542	47.63	ppm	-0.02
Spiked Amount 50.000			Recovery = 95.26%			
107) 1-chlorooctadecane	0.000	57	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
110) o-terphenyl	0.000	230	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			

Target Compounds						Qvalue
2) 1,4-Dioxane	2.344	88	70500	45.22	ppm	98
3) Pyridine	2.664	79	186079	50.50	ppm	91
4) N-Nitrosodimethylamine	2.627	74	104385	50.05	ppm	91
6) Indene	4.986	116	251998	44.82	ppm	98
7) Cumene	4.184	105	366500	47.70	ppm	97
9) Phenol	4.520	94	215426	48.80	ppm	90
10) Aniline	4.531	93	249646	46.86	ppm	95
11) bis(2-Chloroethyl)ether	4.579	93	151721	48.54	ppm	98
12) 2-Chlorophenol	4.627	128	154544	47.53	ppm	98
13) Decane	4.660	43	197251	48.20	ppm	91
14) 1,3-Dichlorobenzene	4.740	146	159480	46.77	ppm	97
15) 1,4-Dichlorobenzene	4.793	146	159978	46.95	ppm	99
16) Benzyl alcohol	4.890	108	106968	49.21	ppm	93
17) 1,2-Dichlorobenzene	4.916	146	147682	46.20	ppm	99
18) Acetophenone	5.103	105	189182	44.70	ppm	98
19) 2-Methylphenol	4.986	108	131788	45.65	ppm	98
20) 2,2'-oxybis(1-Chloropr...	4.996	45	239178	47.22	ppm	93
21) 3&4-Methylphenol	5.103	108	136403	44.98	ppm	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E2M3789\
Data File : 2m85686.D
Acq On : 20 Jul 2016 1:31 pm
Operator : ashleyn
Sample : icc3789-50
Misc : op95288,e2m3789
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jul 20 14:34:31 2016
Quant Method : C:\MSDCHEM\1\METHODS\M2M3789.M
Quant Title : Semi Volatile GC/MS,rxi 5sil ms 30m .25mm .25um
QLast Update : Wed Jul 20 14:33:31 2016
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
22) n-Nitroso-di-n-propyla...	5.103	70	93812	43.71	ppm		81
23) Hexachloroethane	5.194	201	46347	48.06	ppm	#	79
26) Nitrobenzene	5.248	77	160439	48.16	ppm		92
27) Quinoline	6.259	129	302244	47.24	ppm		98
28) Isophorone	5.451	82	278742	47.73	ppm		98
29) 2-Nitrophenol	5.526	139	83013	51.08	ppm		86
30) 2,4-Dimethylphenol	5.563	107	144213	48.16	ppm		92
31) Benzoic acid	5.681	105	121121	69.09	ppm		93
32) bis(2-Chloroethoxy)met...	5.644	93	173438	48.39	ppm		99
33) 2,4-Dichlorophenol	5.756	162	118062	48.62	ppm		99
34) 2,6-Dichlorophenol	5.975	162	113489	46.81	ppm		99
35) 1,3,5-Trichlorobenzene	5.542	180	123886	45.74	ppm		96
36) 1,2,4-Trichlorobenzene	5.836	180	115031	45.96	ppm		93
37) 1,2,3-Trichlorobenzene	6.061	180	116657	46.95	ppm		96
38) Naphthalene	5.911	128	421968	45.81	ppm		98
39) 4-Chloroaniline	5.965	127	189805	46.58	ppm		93
40) 2,3-Dichloroaniline	6.992	161	136765	46.14	ppm		97
41) Caprolactam	6.339	55	78442	51.05	ppm		95
42) Hexachlorobutadiene	6.045	225	54221	46.79	ppm		94
43) 4-Chloro-3-methylphenol	6.489	107	130356	50.16	ppm		98
44) 2-Methylnaphthalene	6.655	141	245402	46.50	ppm		96
45) 1-Methylnaphthalene	6.772	141	245230	46.42	ppm		97
46) Dimethylnaphthalene	7.425	156	248272	46.16	ppm		99
48) Hexachlorocyclopentadiene	6.852	237	119850	120.61	ppm		98
49) 2,4,6-Trichlorophenol	7.002	196	74955	48.60	ppm		97
50) 2,4,5-Trichlorophenol	7.050	196	83095	50.23	ppm		99
52) 2-Chloronaphthalene	7.248	162	244427	45.30	ppm		97
53) Biphenyl	7.227	154	335739	44.66	ppm		99
54) 2-Nitroaniline	7.382	65	92207	51.84	ppm		97
55) Dimethylphthalate	7.633	163	276002	46.97	ppm		98
56) Acenaphthylene	7.783	152	415523	46.53	ppm		98
57) 2,6-Dinitrotoluene	7.703	165	64208	54.64	ppm		94
58) 3-Nitroaniline	7.933	138	88988	52.53	ppm		98
59) Acenaphthene	8.024	153	251663	45.16	ppm		96
60) 2,4-Dinitrophenol	8.077	184	73185	156.93	ppm	#	86
61) 4-Nitrophenol	8.195	109	37013	56.41	ppm		86
62) Dibenzofuran	8.270	168	359525	44.19	ppm		96
63) 2,4-Dinitrotoluene	8.265	165	84826	53.15	ppm		99
64) 2,3,4,6-Tetrachlorophenol	8.457	232	58560	52.68	ppm		87
65) Diethylphthalate	8.634	149	278303	48.01	ppm		94
66) Fluorene	8.757	166	278951	45.60	ppm		99
67) 4-Chlorophenyl-phenyle...	8.773	204	120201	45.75	ppm		81
68) 4-Nitroaniline	8.810	138	89310	54.11	ppm		98
70) 4,6-Dinitro-2-methylph...	8.853	198	51620	61.84	ppm		87
71) n-Nitrosodiphenylamine	8.954	169	195218	46.76	ppm		96
72) 1,2-Diphenylhydrazine	9.008	77	308450	48.71	ppm		88
74) 4-Bromophenyl-phenylether	9.500	248	63470	47.46	ppm	#	80
75) Hexachlorobenzene	9.586	284	68991	46.71	ppm		79
76) Pentachlorophenol	9.896	266	91259	117.03	ppm		95
77) Phenanthrene	10.195	178	381216	44.32	ppm		97

SGS ACCUTEST JC24978

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E2M3789\
Data File : 2m85686.D
Acq On : 20 Jul 2016 1:31 pm
Operator : ashleyn
Sample : icc3789-50
Misc : op95288,e2m3789
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jul 20 14:34:31 2016
Quant Method : C:\MSDCHEM\1\METHODS\M2M3789.M
Quant Title : Semi Volatile GC/MS,rxi 5sil ms 30m .25mm .25um
QLast Update : Wed Jul 20 14:33:31 2016
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
78) Anthracene	10.276	178	391801	46.04 ppm	100
79) Carbazole	10.543	167	392843	45.96 ppm	99
80) Di-n-butylphthalate	11.169	149	476956	49.57 ppm	99
81) Fluoranthene	12.057	202	384480	46.85 ppm	93
82) Octadecane	10.110	57	226211	48.53 ppm	95
84) Pyrene	12.404	202	407360	45.86 ppm	98
86) Butylbenzylphthalate	13.544	149	212639	51.02 ppm	90
87) Benzo[a]anthracene	14.325	228	331779	46.00 ppm	98
88) 3,3'-Dichlorobenzidine	14.325	252	123717	51.10 ppm	96
89) Chrysene	14.383	228	341333	45.98 ppm	99
90) bis(2-Ethylhexyl)phtha...	14.501	149	290110	48.01 ppm	93
92) Di-n-octylphthalate	15.485	149	505710	51.71 ppm	97
93) Benzo[b]fluoranthene	15.929	252	345802	47.13 ppm	91
94) Benzo[k]fluoranthene	15.972	252	338933	47.56 ppm	88
95) Benzo[a]pyrene	16.373	252	312761	48.05 ppm	85
96) Indeno[1,2,3-cd]pyrene	18.026	276	312433	49.73 ppm	73
97) Dibenz(a,h)acridine	17.662	279	286998	49.04 ppm	98
98) Dibenz[a,h]anthracene	18.069	278	324810	48.73 ppm	87
99) 7,12-Dimethylbenz(a)an...	15.934	256	162300	48.65 ppm	94
100) Benzo[g,h,i]perylene	18.480	276	325294	48.55 ppm	79

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

7.6.7

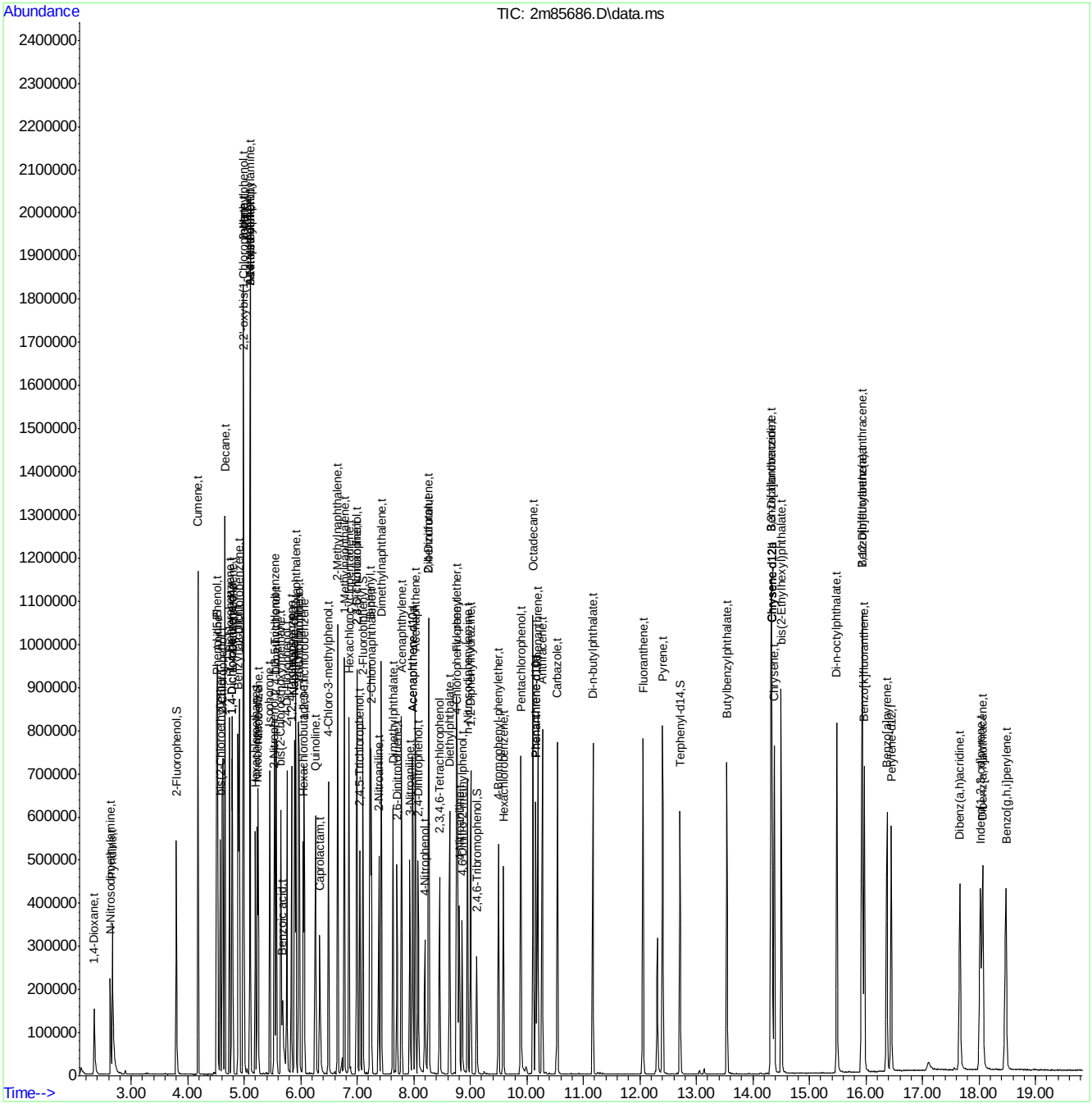
7

SGS ACCUTEST JC24978

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E2M3789\
Data File : 2m85686.D
Acq On : 20 Jul 2016 1:31 pm
Operator : ashleyn
Sample : icc3789-50
Misc : op95288,e2m3789
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jul 20 14:34:31 2016
Quant Method : C:\MSDCHEM\1\METHODS\M2M3789.M
Quant Title : Semi Volatile GC/MS,rxi 5sil ms 30m .25mm .25um
QLast Update : Wed Jul 20 14:33:31 2016
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E2M3789\
Data File : 2m85687.D
Acq On : 20 Jul 2016 1:57 pm
Operator : ashleyn
Sample : ic3789-80
Misc : op95288,e2m3789
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jul 20 14:35:39 2016
Quant Method : C:\MSDCHEM\1\METHODS\M2M3789.M
Quant Title : Semi Volatile GC/MS,rxi 5sil ms 30m .25mm .25um
QLast Update : Wed Jul 20 14:34:52 2016
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.783	152	77824	40.00	ppm	0.00
24) Naphthalene-d8	5.895	136	314622	40.00	ppm	0.00
47) Acenaphthene-d10	7.981	164	178816	40.00	ppm	0.00
69) Phenanthrene-d10	10.163	188	282077	40.00	ppm	0.00
83) Chrysene-d12	14.341	240	225462	40.00	ppm	0.00
91) Perylene-d12	16.448	264	231011	40.00	ppm	0.00
101) 1,4-Dichlorobenzene-d4a	4.783	152	77824	40.00	ppm	0.00
103) Acenaphthene-d10a	7.981	164	178816	40.00	ppm	0.00
105) Chrysene-d12a	14.341	240	225462	40.00	ppm	0.00
108) Phenanthrene-d10a	10.163	188	282077	40.00	ppm	0.00
111) Naphthalene-d8a	5.895	136	314622	40.00	ppm	0.00
113) Chrysene-d12b	14.341	240	225462	40.00	ppm	0.00

System Monitoring Compounds						
5) 2-Fluorophenol	3.798	112	213376	78.43	ppm	0.00
Spiked Amount 50.000			Recovery = 156.86%			
8) Phenol-d5	4.515	99	257817	74.17	ppm	0.00
Spiked Amount 50.000			Recovery = 148.34%			
25) Nitrobenzene-d5	5.232	82	218627	75.45	ppm	0.00
Spiked Amount 50.000			Recovery = 150.90%			
51) 2-Fluorobiphenyl	7.104	172	383335	69.34	ppm	0.00
Spiked Amount 50.000			Recovery = 138.68%			
73) 2,4,6-Tribromophenol	9.115	330	47304	82.28	ppm	0.00
Spiked Amount 50.000			Recovery = 164.56%			
85) Terphenyl-d14	12.715	244	353900	76.54	ppm	0.00
Spiked Amount 50.000			Recovery = 153.08%			
107) 1-chlorooctadecane	0.000	57	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
110) o-terphenyl	0.000	230	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			

Target Compounds						Qvalue
2) 1,4-Dioxane	2.344	88	104066	72.02	ppm	99
3) Pyridine	2.664	79	274911	79.28	ppm	99
4) N-Nitrosodimethylamine	2.632	74	153313	78.21	ppm	99
6) Indene	4.991	116	331138	63.62	ppm	99
7) Cumene	4.183	105	520023	72.50	ppm	100
9) Phenol	4.526	94	303733	73.47	ppm	83
10) Aniline	4.531	93	365265	73.62	ppm	93
11) bis(2-Chloroethyl)ether	4.579	93	217511	74.36	ppm	98
12) 2-Chlorophenol	4.627	128	223145	73.55	ppm	98
13) Decane	4.660	43	277938	72.64	ppm	99
14) 1,3-Dichlorobenzene	4.740	146	226965	71.50	ppm	99
15) 1,4-Dichlorobenzene	4.799	146	226664	71.41	ppm	99
16) Benzyl alcohol	4.895	108	152553	74.85	ppm	98
17) 1,2-Dichlorobenzene	4.916	146	208069	70.02	ppm	99
18) Acetophenone	5.103	105	252863	64.56	ppm	96
19) 2-Methylphenol	4.986	108	174485	65.13	ppm	100
20) 2,2'-oxybis(1-Chloropr...	4.996	45	328223	69.51	ppm	98
21) 3&4-Methylphenol	5.109	108	177930	63.35	ppm	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E2M3789\
Data File : 2m85687.D
Acq On : 20 Jul 2016 1:57 pm
Operator : ashleyn
Sample : ic3789-80
Misc : op95288,e2m3789
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jul 20 14:35:39 2016
Quant Method : C:\MSDCHEM\1\METHODS\M2M3789.M
Quant Title : Semi Volatile GC/MS,rxi 5sil ms 30m .25mm .25um
QLast Update : Wed Jul 20 14:34:52 2016
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
22) n-Nitroso-di-n-propyla...	5.103	70	124145	62.68	ppm	96
23) Hexachloroethane	5.194	201	66705	74.02	ppm	96
26) Nitrobenzene	5.248	77	231215	74.14	ppm	97
27) Quinoline	6.264	129	440652	73.78	ppm	100
28) Isophorone	5.456	82	406154	74.39	ppm	99
29) 2-Nitrophenol	5.531	139	120749	78.71	ppm	91
30) 2,4-Dimethylphenol	5.569	107	210016	74.93	ppm	98
31) Benzoic acid	5.697	105	184869	104.12	ppm	97
32) bis(2-Chloroethoxy)met...	5.649	93	250052	74.48	ppm	99
33) 2,4-Dichlorophenol	5.756	162	168002	73.81	ppm	98
34) 2,6-Dichlorophenol	5.981	162	162257	71.78	ppm	98
35) 1,3,5-Trichlorobenzene	5.542	180	176681	70.18	ppm	100
36) 1,2,4-Trichlorobenzene	5.836	180	165605	71.14	ppm	99
37) 1,2,3-Trichlorobenzene	6.061	180	165975	71.61	ppm	99
38) Naphthalene	5.916	128	596560	69.66	ppm	100
39) 4-Chloroaniline	5.970	127	270317	71.19	ppm	98
40) 2,3-Dichloroaniline	6.992	161	194509	70.51	ppm	98
41) Caprolactam	6.360	55	117337	80.91	ppm	98
42) Hexachlorobutadiene	6.045	225	78061	72.26	ppm	100
43) 4-Chloro-3-methylphenol	6.494	107	188895	77.21	ppm	100
44) 2-Methylnaphthalene	6.655	141	348765	70.93	ppm	100
45) 1-Methylnaphthalene	6.772	141	345647	70.25	ppm	98
46) Dimethylnaphthalene	7.430	156	359974	71.92	ppm	97
48) Hexachlorocyclopentadiene	6.852	237	174501	181.07	ppm	99
49) 2,4,6-Trichlorophenol	7.002	196	109334	75.90	ppm	100
50) 2,4,5-Trichlorophenol	7.050	196	121580	78.33	ppm	99
52) 2-Chloronaphthalene	7.248	162	350971	70.32	ppm	99
53) Biphenyl	7.227	154	472768	68.10	ppm	100
54) 2-Nitroaniline	7.387	65	135911	81.07	ppm	98
55) Dimethylphthalate	7.633	163	397871	72.84	ppm	99
56) Acenaphthylene	7.788	152	595251	71.80	ppm	99
57) 2,6-Dinitrotoluene	7.708	165	95074	85.16	ppm	97
58) 3-Nitroaniline	7.938	138	129287	80.81	ppm	98
59) Acenaphthene	8.029	153	360515	69.97	ppm	99
60) 2,4-Dinitrophenol	8.083	184	117261	244.92	ppm	98
61) 4-Nitrophenol	8.206	109	57392	91.34	ppm	95
62) Dibenzofuran	8.270	168	506133	67.47	ppm	100
63) 2,4-Dinitrotoluene	8.264	165	120749	79.97	ppm	100
64) 2,3,4,6-Tetrachlorophenol	8.457	232	86468	82.32	ppm	98
65) Diethylphthalate	8.639	149	404180	74.78	ppm	100
66) Fluorene	8.762	166	395745	69.87	ppm	100
67) 4-Chlorophenyl-phenyle...	8.778	204	171518	70.48	ppm	97
68) 4-Nitroaniline	8.815	138	132230	84.45	ppm	93
70) 4,6-Dinitro-2-methylph...	8.858	198	78728	94.79	ppm	99
71) n-Nitrosodiphenylamine	8.960	169	282167	71.82	ppm	100
72) 1,2-Diphenylhydrazine	9.008	77	445966	74.42	ppm	99
74) 4-Bromophenyl-phenylether	9.505	248	92315	73.19	ppm	95
75) Hexachlorobenzene	9.591	284	101639	73.13	ppm	94
76) Pentachlorophenol	9.896	266	137251	180.18	ppm	99
77) Phenanthrene	10.201	178	554413	68.97	ppm	99

SGS ACCUTEST JC24978

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E2M3789\
Data File : 2m85687.D
Acq On : 20 Jul 2016 1:57 pm
Operator : ashleyn
Sample : ic3789-80
Misc : op95288,e2m3789
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jul 20 14:35:39 2016
Quant Method : C:\MSDCHEM\1\METHODS\M2M3789.M
Quant Title : Semi Volatile GC/MS,rxi 5sil ms 30m .25mm .25um
QLast Update : Wed Jul 20 14:34:52 2016
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
78) Anthracene	10.276	178	565686	70.78 ppm	100
79) Carbazole	10.548	167	565769	70.50 ppm	100
80) Di-n-butylphthalate	11.169	149	692885	75.90 ppm	100
81) Fluoranthene	12.057	202	560983	72.61 ppm	99
82) Octadecane	10.115	57	324352	73.57 ppm	98
84) Pyrene	12.410	202	595527	72.99 ppm	99
86) Butylbenzylphthalate	13.544	149	313256	80.63 ppm	98
87) Benzo[a]anthracene	14.324	228	478257	72.16 ppm	100
88) 3,3'-Dichlorobenzidine	14.330	252	174567	77.33 ppm	99
89) Chrysene	14.389	228	496697	72.83 ppm	99
90) bis(2-Ethylhexyl)phtha...	14.506	149	424233	75.97 ppm	100
92) Di-n-octylphthalate	15.490	149	749071	79.80 ppm	99
93) Benzo[b]fluoranthene	15.934	252	529958	76.25 ppm	98
94) Benzo[k]fluoranthene	15.983	252	479419	70.93 ppm	98
95) Benzo[a]pyrene	16.378	252	467616	75.64 ppm	99
96) Indeno[1,2,3-cd]pyrene	18.036	276	486423	81.12 ppm	97
97) Dibenz(a,h)acridine	17.673	279	438771	78.71 ppm	99
98) Dibenz[a,h]anthracene	18.079	278	488127	76.95 ppm	98
99) 7,12-Dimethylbenz(a)an...	15.945	256	236931	74.65 ppm	97
100) Benzo[g,h,i]perylene	18.491	276	495791	77.79 ppm	98

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

7.6.8

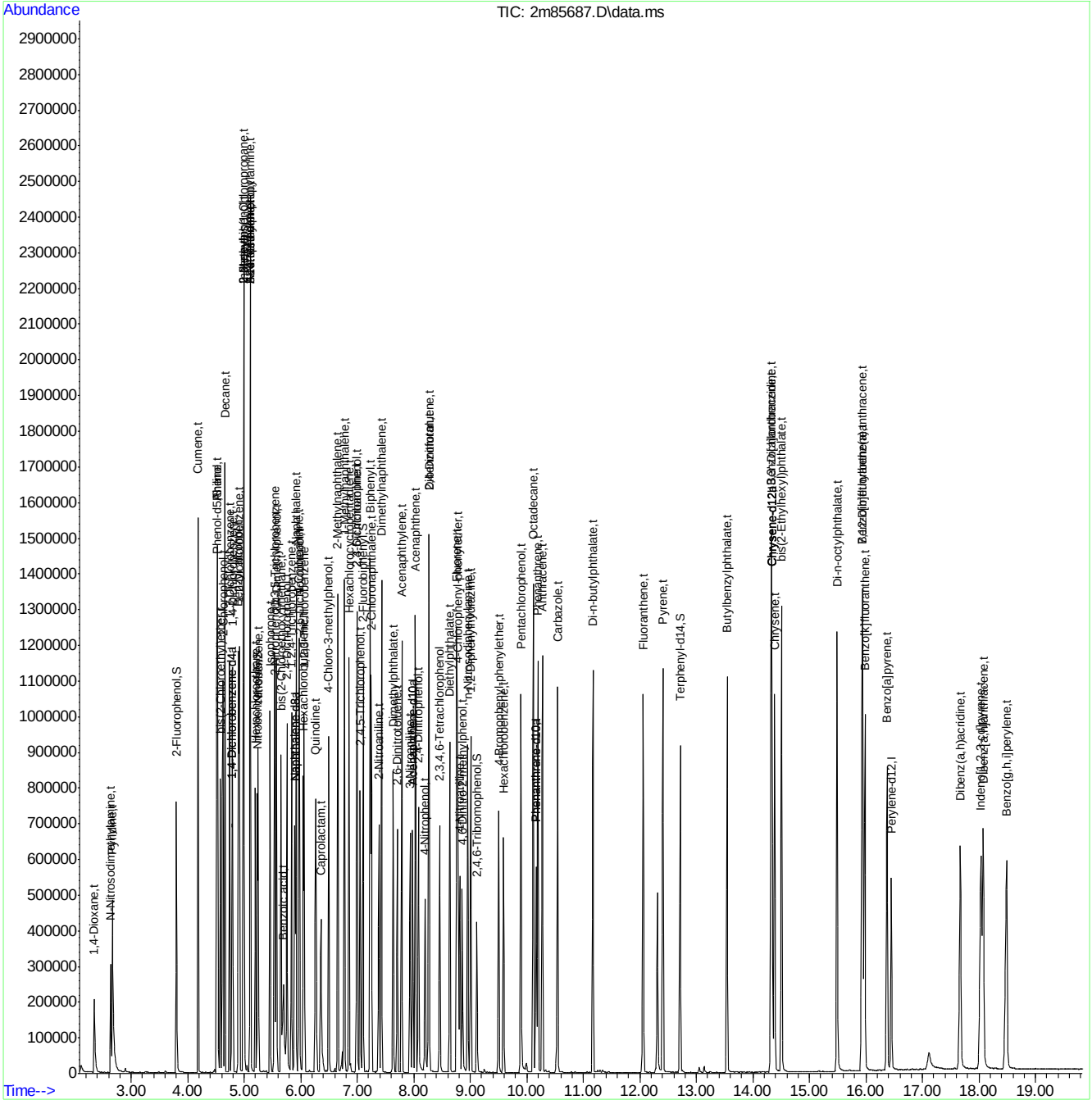
7

SGS ACCUTEST JC24978

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E2M3789\
Data File : 2m85687.D
Acq On : 20 Jul 2016 1:57 pm
Operator : ashleyn
Sample : ic3789-80
Misc : op95288,e2m3789
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jul 20 14:35:39 2016
Quant Method : C:\MSDCHEM\1\METHODS\M2M3789.M
Quant Title : Semi Volatile GC/MS,rxi 5sil ms 30m .25mm .25um
QLast Update : Wed Jul 20 14:34:52 2016
Response via : Initial Calibration



M2M3789.M Wed Jul 20 14:35:48 2016 Page: 4

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E2M3790\
Data File : 2m85698.D
Acq On : 20 Jul 2016 6:50 pm
Operator : ashleyn
Sample : icv3789-50
Misc : op95288,e2m3790
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jul 21 17:49:32 2016
Quant Method : C:\MSDCHEM\1\METHODS\M2M3789.M
Quant Title : Semi Volatile GC/MS,rxi 5sil ms 30m .25mm .25um
QLast Update : Thu Jul 21 17:43:16 2016
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.783	152	100447	40.00	ppm	0.00
24) Naphthalene-d8	5.890	136	394360	40.00	ppm	0.00
47) Acenaphthene-d10	7.976	164	216663	40.00	ppm	0.00
69) Phenanthrene-d10	10.158	188	326500	40.00	ppm	0.00
83) Chrysene-d12	14.330	240	237909	40.00	ppm	-0.01
91) Perylene-d12	16.443	264	226456	40.00	ppm	0.00
101) 1,4-Dichlorobenzene-d4a	4.783	152	100447	40.00	ppm	0.00
103) Acenaphthene-d10a	7.976	164	216663	40.00	ppm	0.00
105) Chrysene-d12a	14.330	240	237909	40.00	ppm	0.00
108) Phenanthrene-d10a	10.158	188	326500	40.00	ppm	0.00
111) Naphthalene-d8a	5.890	136	394360	40.00	ppm	0.00
113) Chrysene-d12b	14.330	240	237909	40.00	ppm	0.00

System Monitoring Compounds						
5) 2-Fluorophenol	0.000	112	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
8) Phenol-d5	0.000	99	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
25) Nitrobenzene-d5	0.000	82	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
51) 2-Fluorobiphenyl	0.000	172	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
73) 2,4,6-Tribromophenol	0.000	330	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
85) Terphenyl-d14	0.000	244	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
107) 1-chlorooctadecane	0.000	57	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
110) o-terphenyl	0.000	230	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			

Target Compounds						Qvalue
9) Phenol	4.515	94	205227	38.86	ppm	97
19) 2-Methylphenol	4.980	108	150576	44.58	ppm	98
21) 3&4-Methylphenol	5.103	108	159838	45.27	ppm	99
29) 2-Nitrophenol	5.526	139	85416	44.51	ppm	97
30) 2,4-Dimethylphenol	5.563	107	155276	44.55	ppm	99
31) Benzoic acid	5.676	105	104075	39.22	ppm	98
33) 2,4-Dichlorophenol	5.751	162	122733	43.44	ppm	99
34) 2,6-Dichlorophenol	5.970	162	119852	42.85	ppm	100
43) 4-Chloro-3-methylphenol	6.478	107	129859	42.53	ppm	98
49) 2,4,6-Trichlorophenol	6.997	196	78474	45.25	ppm	98
50) 2,4,5-Trichlorophenol	7.040	196	79800	42.54	ppm	99
60) 2,4-Dinitrophenol	8.072	184	26514	38.01	ppm	94
61) 4-Nitrophenol	8.190	109	35543	45.76	ppm	93
64) 2,3,4,6-Tetrachlorophenol	8.452	232	56106	43.93	ppm	97
70) 4,6-Dinitro-2-methylph...	8.848	198	43097	39.49	ppm	92
76) Pentachlorophenol	9.891	266	41282	48.23	ppm	100

SGS ACCUTEST JC24978

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E2M3790\
Data File : 2m85698.D
Acq On : 20 Jul 2016 6:50 pm
Operator : ashleyn
Sample : icv3789-50
Misc : op95288,e2m3790
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jul 21 17:49:32 2016
Quant Method : C:\MSDCHEM\1\METHODS\M2M3789.M
Quant Title : Semi Volatile GC/MS,rxi 5sil ms 30m .25mm .25um
QLast Update : Thu Jul 21 17:43:16 2016
Response via : Initial Calibration

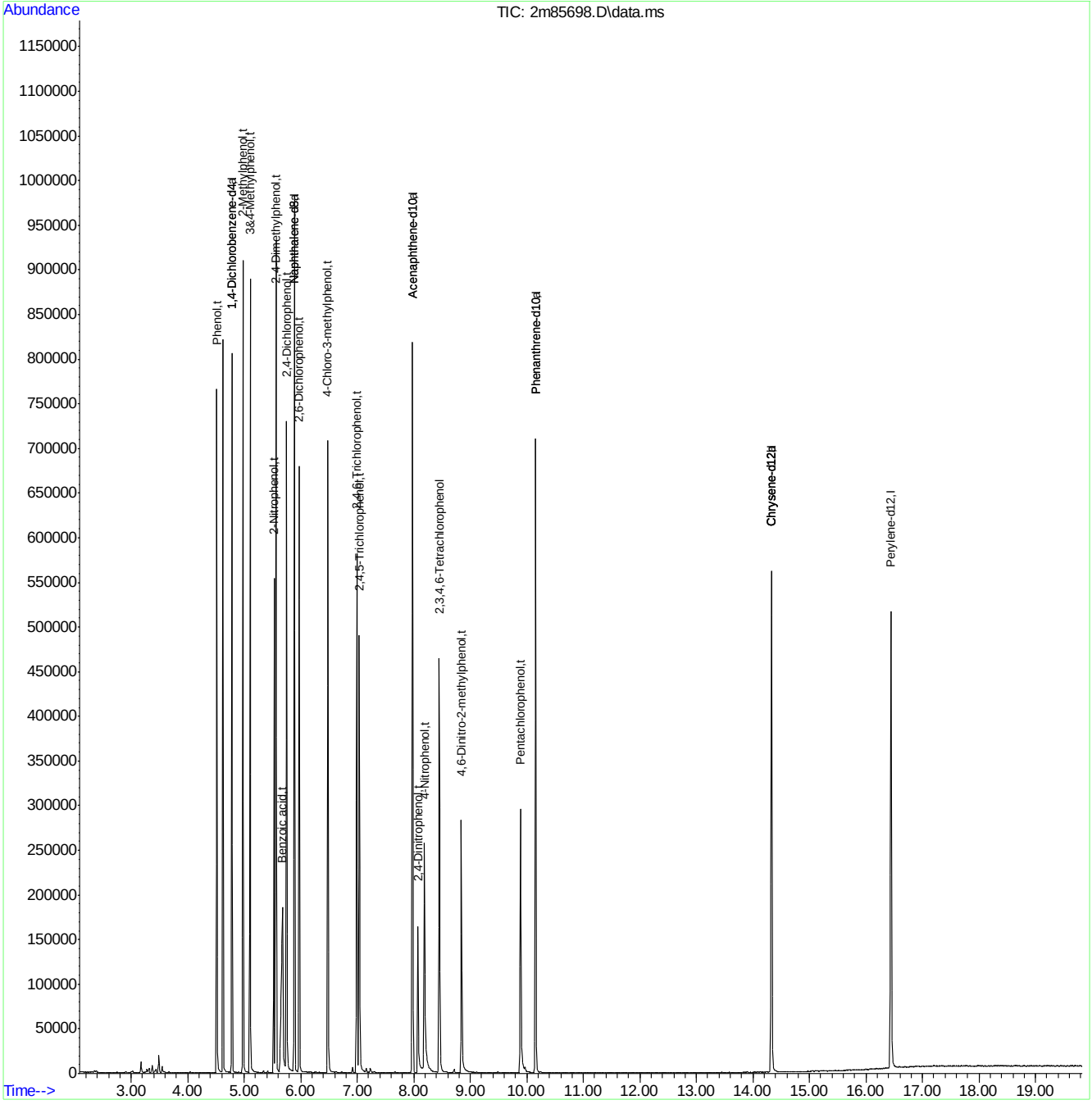
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E2M3790\
Data File : 2m85698.D
Acq On : 20 Jul 2016 6:50 pm
Operator : ashleyn
Sample : icv3789-50
Misc : op95288,e2m3790
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jul 21 17:49:32 2016
Quant Method : C:\MSDCHEM\1\METHODS\M2M3789.M
Quant Title : Semi Volatile GC/MS,rxi 5sil ms 30m .25mm .25um
QLast Update : Thu Jul 21 17:43:16 2016
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E2M3790\
Data File : 2m85699.D
Acq On : 20 Jul 2016 7:16 pm
Operator : ashleyn
Sample : icv3789-50
Misc : op95288,e2m3790
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jul 21 10:55:14 2016
Quant Method : C:\MSDCHEM\1\METHODS\M2M3789.M
Quant Title : Semi Volatile GC/MS,rxi 5sil ms 30m .25mm .25um
QLast Update : Wed Jul 20 14:53:24 2016
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.782	152	93047	40.00 ppm	0.00
24) Naphthalene-d8	5.890	136	359494	40.00 ppm	0.00
47) Acenaphthene-d10	7.976	164	193438	40.00 ppm	0.00
69) Phenanthrene-d10	10.158	188	287359	40.00 ppm	0.00
83) Chrysene-d12	14.330	240	217793	40.00 ppm	-0.01
91) Perylene-d12	16.442	264	205267	40.00 ppm	0.00
101) 1,4-Dichlorobenzene-d4a	4.782	152	93047	40.00 ppm	0.00
103) Acenaphthene-d10a	7.976	164	193438	40.00 ppm	0.00
105) Chrysene-d12a	14.330	240	217793	40.00 ppm	-0.01
108) Phenanthrene-d10a	10.158	188	287359	40.00 ppm	0.00
111) Naphthalene-d8a	5.890	136	359494	40.00 ppm	0.00
113) Chrysene-d12b	14.330	240	217793	40.00 ppm	-0.01

System Monitoring Compounds					
5) 2-Fluorophenol	3.804	112	163864	50.50 ppm	0.00
Spiked Amount 50.000			Recovery	= 101.00%	
8) Phenol-d5	4.510	99	200144	48.60 ppm	0.00
Spiked Amount 50.000			Recovery	= 97.20%	
25) Nitrobenzene-d5	5.226	82	163945	49.87 ppm	0.00
Spiked Amount 50.000			Recovery	= 99.74%	
51) 2-Fluorobiphenyl	7.098	172	294198	50.02 ppm	0.00
Spiked Amount 50.000			Recovery	= 100.04%	
73) 2,4,6-Tribromophenol	9.110	330	31603	53.77 ppm	0.00
Spiked Amount 50.000			Recovery	= 107.54%	
85) Terphenyl-d14	12.709	244	236460	53.23 ppm	0.00
Spiked Amount 50.000			Recovery	= 106.46%	
107) 1-chlorooctadecane	0.000	57	0	0.00 ppm	
Spiked Amount 50.000			Recovery	= 0.00%	
110) o-terphenyl	0.000	230	0	0.00 ppm	
Spiked Amount 50.000			Recovery	= 0.00%	

Target Compounds	Qvalue

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

7.6.10

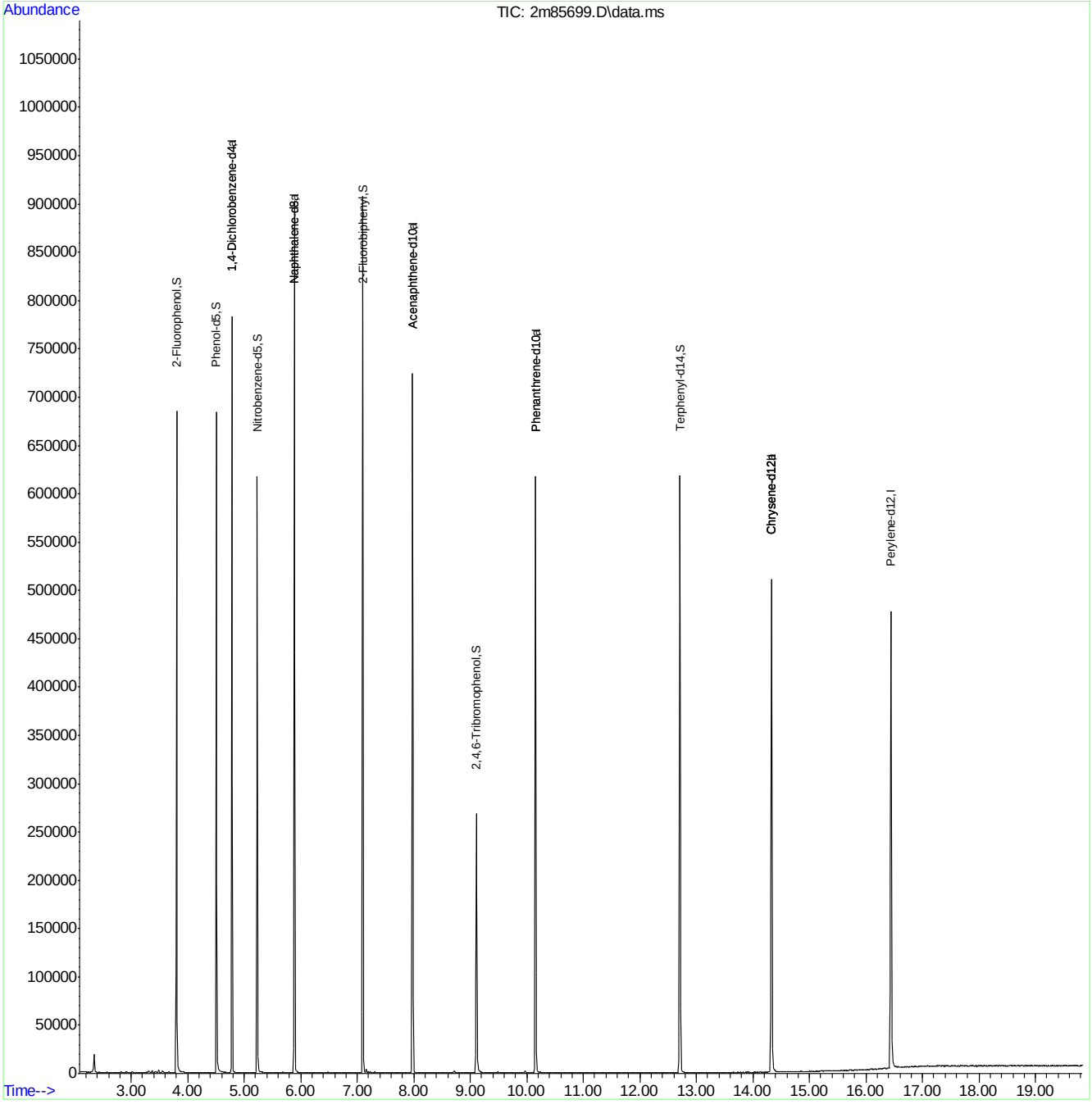
7

SGS ACCUTEST JC24978

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E2M3790\
Data File : 2m85699.D
Acq On : 20 Jul 2016 7:16 pm
Operator : ashleyn
Sample : icv3789-50
Misc : op95288,e2m3790
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jul 21 10:55:14 2016
Quant Method : C:\MSDCHEM\1\METHODS\M2M3789.M
Quant Title : Semi Volatile GC/MS,rxi 5sil ms 30m .25mm .25um
QLast Update : Wed Jul 20 14:53:24 2016
Response via : Initial Calibration



M2M3789.M Thu Jul 21 10:55:21 2016 Page: 2

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E2M3791\
Data File : 2m85702.D
Acq On : 20 Jul 2016 9:50 pm
Operator : seanb1
Sample : ic3791-100
Misc : op95288,e2m3791
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 21 11:25:10 2016
Quant Method : C:\MSDCHEM\1\METHODS\M2M3789.M
Quant Title : Semi Volatile GC/MS,rxi 5sil ms 30m .25mm .25um
QLast Update : Thu Jul 21 11:24:37 2016
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.782	152	90159	40.00	ppm	0.00
24) Naphthalene-d8	5.890	136	363606	40.00	ppm	0.00
47) Acenaphthene-d10	7.981	164	197336	40.00	ppm	0.00
69) Phenanthrene-d10	10.158	188	307181	40.00	ppm	0.00
83) Chrysene-d12	14.335	240	249865	40.00	ppm	0.00
91) Perylene-d12	16.448	264	242281	40.00	ppm	0.00
101) 1,4-Dichlorobenzene-d4a	4.782	152	90159	40.00	ppm	0.00
103) Acenaphthene-d10a	7.981	164	197336	40.00	ppm	0.00
105) Chrysene-d12a	14.335	240	249865	40.00	ppm	0.00
108) Phenanthrene-d10a	10.158	188	307181	40.00	ppm	0.00
111) Naphthalene-d8a	5.890	136	363606	40.00	ppm	0.00
113) Chrysene-d12b	14.335	240	249865	40.00	ppm	0.00

System Monitoring Compounds						
5) 2-Fluorophenol	0.000	112	0d	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
8) Phenol-d5	0.000	99	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
25) Nitrobenzene-d5	0.000	82	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
51) 2-Fluorobiphenyl	0.000	172	0d	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
73) 2,4,6-Tribromophenol	0.000	330	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
85) Terphenyl-d14	0.000	244	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
107) 1-chlorooctadecane	12.003	57	279086	100.00	ppm	0.07
Spiked Amount 50.000			Recovery	=	200.00%	
110) o-terphenyl	10.805	230	329708	100.00	ppm	0.12
Spiked Amount 50.000			Recovery	=	200.00%	

Target Compounds						Qvalue
102) Benzaldehyde	4.451	105	159257	100.00	ppm	94
104) 1,2,4,5-Tetrachloroben...	6.858	216	203209	100.00	ppm	98
106) Benzidine	12.313	184	204919	100.00	ppm	98
109) Atrazine	9.805	215	71958	100.00	ppm	92
112) Hydroquinone	6.323	110	309245	100.00	ppm	91

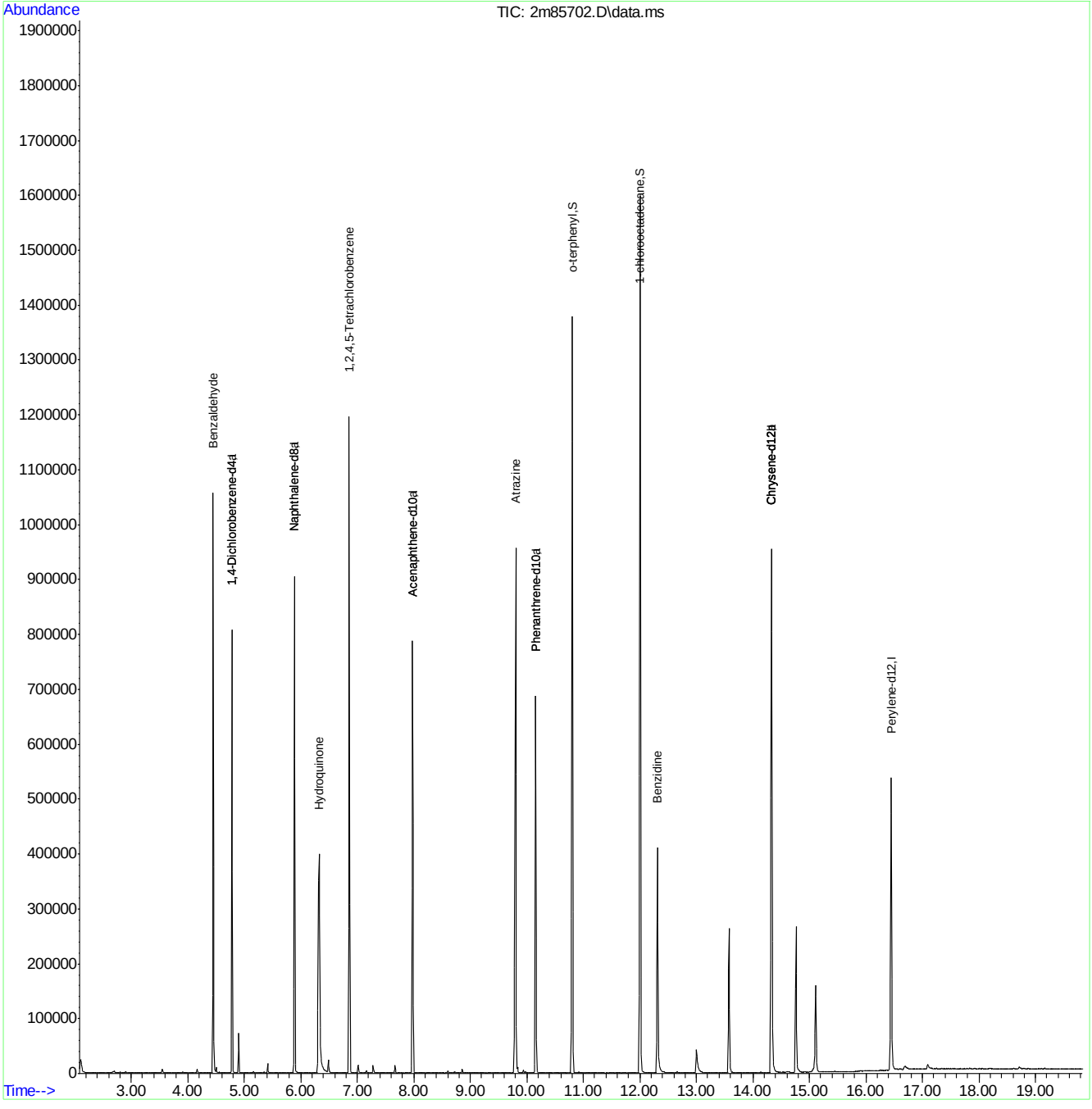
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC24978

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E2M3791\
Data File : 2m85702.D
Acq On : 20 Jul 2016 9:50 pm
Operator : seanb1
Sample : ic3791-100
Misc : op95288,e2m3791
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 21 11:25:10 2016
Quant Method : C:\MSDCHEM\1\METHODS\M2M3789.M
Quant Title : Semi Volatile GC/MS,rxi 5sil ms 30m .25mm .25um
QLast Update : Thu Jul 21 11:24:37 2016
Response via : Initial Calibration



M2M3789.M Thu Jul 21 11:25:24 2016 Page: 2

SGS ACCUTEST JC24978

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E2M3791\
Data File : 2m85703.D
Acq On : 20 Jul 2016 10:16 pm
Operator : seanb1
Sample : ic3791-80
Misc : op95288,e2m3791
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 21 11:25:54 2016
Quant Method : C:\MSDCHEM\1\METHODS\M2M3789.M
Quant Title : Semi Volatile GC/MS,rxi 5sil ms 30m .25mm .25um
QLast Update : Thu Jul 21 11:24:37 2016
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.782	152	86556	40.00 ppm	0.00
24) Naphthalene-d8	5.890	136	342568	40.00 ppm	0.00
47) Acenaphthene-d10	7.976	164	184494	40.00 ppm	0.00
69) Phenanthrene-d10	10.158	188	284948	40.00 ppm	0.00
83) Chrysene-d12	14.330	240	236371	40.00 ppm	-0.01
91) Perylene-d12	16.443	264	232853	40.00 ppm	0.00
101) 1,4-Dichlorobenzene-d4a	4.782	152	86556	40.00 ppm	0.00
103) Acenaphthene-d10a	7.976	164	184494	40.00 ppm	0.00
105) Chrysene-d12a	14.330	240	236371	40.00 ppm	-0.01
108) Phenanthrene-d10a	10.158	188	284948	40.00 ppm	0.00
111) Naphthalene-d8a	5.890	136	342568	40.00 ppm	0.00
113) Chrysene-d12b	14.330	240	236371	40.00 ppm	-0.01

System Monitoring Compounds					
5) 2-Fluorophenol	0.000	112	0	0.00 ppm	
Spiked Amount 50.000			Recovery = 0.00%		
8) Phenol-d5	0.000	99	0	0.00 ppm	
Spiked Amount 50.000			Recovery = 0.00%		
25) Nitrobenzene-d5	0.000	82	0	0.00 ppm	
Spiked Amount 50.000			Recovery = 0.00%		
51) 2-Fluorobiphenyl	0.000	172	0d	0.00 ppm	
Spiked Amount 50.000			Recovery = 0.00%		
73) 2,4,6-Tribromophenol	0.000	330	0	0.00 ppm	
Spiked Amount 50.000			Recovery = 0.00%		
85) Terphenyl-d14	0.000	244	0	0.00 ppm	
Spiked Amount 50.000			Recovery = 0.00%		
107) 1-chlorooctadecane	12.003	57	211160	79.98 ppm	0.07
Spiked Amount 50.000			Recovery = 159.96%		
110) o-terphenyl	10.800	230	251179	82.13 ppm	0.12
Spiked Amount 50.000			Recovery = 164.26%		

Target Compounds					Qvalue
102) Benzaldehyde	4.446	105	129200	84.50 ppm	91
104) 1,2,4,5-Tetrachloroben...	6.858	216	151111	79.54 ppm	99
106) Benzidine	12.308	184	163727	84.46 ppm	97
109) Atrazine	9.800	215	52999	79.40 ppm	94
112) Hydroquinone	6.312	110	224227	76.96 ppm	92

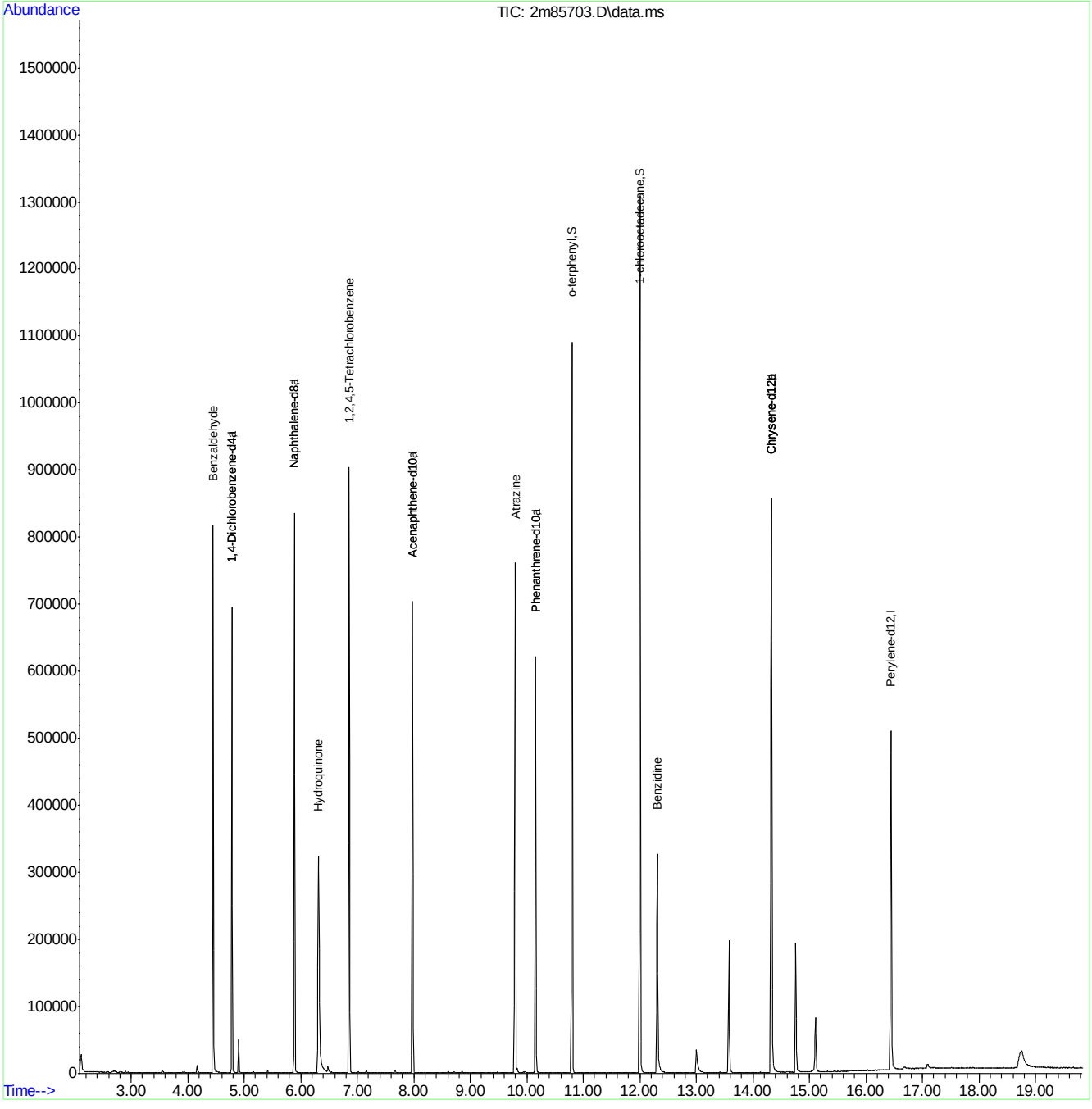
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC24978

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E2M3791\
Data File : 2m85703.D
Acq On : 20 Jul 2016 10:16 pm
Operator : seanb1
Sample : ic3791-80
Misc : op95288,e2m3791
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 21 11:25:54 2016
Quant Method : C:\MSDCHEM\1\METHODS\M2M3789.M
Quant Title : Semi Volatile GC/MS,rxi 5sil ms 30m .25mm .25um
QLast Update : Thu Jul 21 11:24:37 2016
Response via : Initial Calibration



SGS ACCUTEST JC24978

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E2M3791\
Data File : 2m85704.D
Acq On : 20 Jul 2016 10:42 pm
Operator : seanb1
Sample : icc3791-50
Misc : op95288,e2m3791
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jul 21 11:27:49 2016
Quant Method : C:\MSDCHEM\1\METHODS\M2M3789.M
Quant Title : Semi Volatile GC/MS,rxi 5sil ms 30m .25mm .25um
QLast Update : Thu Jul 21 11:24:37 2016
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.783	152	76131	40.00 ppm	0.00
24) Naphthalene-d8	5.890	136	301010	40.00 ppm	0.00
47) Acenaphthene-d10	7.976	164	167244	40.00 ppm	0.00
69) Phenanthrene-d10	10.158	188	274310	40.00 ppm	0.00
83) Chrysene-d12	14.330	240	215194	40.00 ppm	-0.01
91) Perylene-d12	16.443	264	206051	40.00 ppm	0.00
101) 1,4-Dichlorobenzene-d4a	4.783	152	76131	40.00 ppm	0.00
103) Acenaphthene-d10a	7.976	164	167244	40.00 ppm	0.00
105) Chrysene-d12a	14.330	240	215194	40.00 ppm	-0.01
108) Phenanthrene-d10a	10.158	188	274310	40.00 ppm	0.00
111) Naphthalene-d8a	5.890	136	301010	40.00 ppm	0.00
113) Chrysene-d12b	14.330	240	215194	40.00 ppm	-0.01

System Monitoring Compounds					
5) 2-Fluorophenol	0.000	112	0	0.00 ppm	
Spiked Amount 50.000			Recovery	= 0.00%	
8) Phenol-d5	0.000	99	0	0.00 ppm	
Spiked Amount 50.000			Recovery	= 0.00%	
25) Nitrobenzene-d5	0.000	82	0	0.00 ppm	
Spiked Amount 50.000			Recovery	= 0.00%	
51) 2-Fluorobiphenyl	0.000	172	0d	0.00 ppm	
Spiked Amount 50.000			Recovery	= 0.00%	
73) 2,4,6-Tribromophenol	0.000	330	0	0.00 ppm	
Spiked Amount 50.000			Recovery	= 0.00%	
85) Terphenyl-d14	0.000	244	0	0.00 ppm	
Spiked Amount 50.000			Recovery	= 0.00%	
107) 1-chlorooctadecane	11.998	57	138162	57.48 ppm	0.06
Spiked Amount 50.000			Recovery	= 114.96%	
110) o-terphenyl	10.800	230	161031	54.69 ppm	0.12
Spiked Amount 50.000			Recovery	= 109.38%	

Target Compounds					Qvalue
102) Benzaldehyde	4.446	105	105408	78.38 ppm	91
104) 1,2,4,5-Tetrachloroben...	6.858	216	95297	55.33 ppm	100
106) Benzidine	12.308	184	135448	76.75 ppm	98
109) Atrazine	9.794	215	34285	53.36 ppm	96
112) Hydroquinone	6.307	110	144178	56.32 ppm	92

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

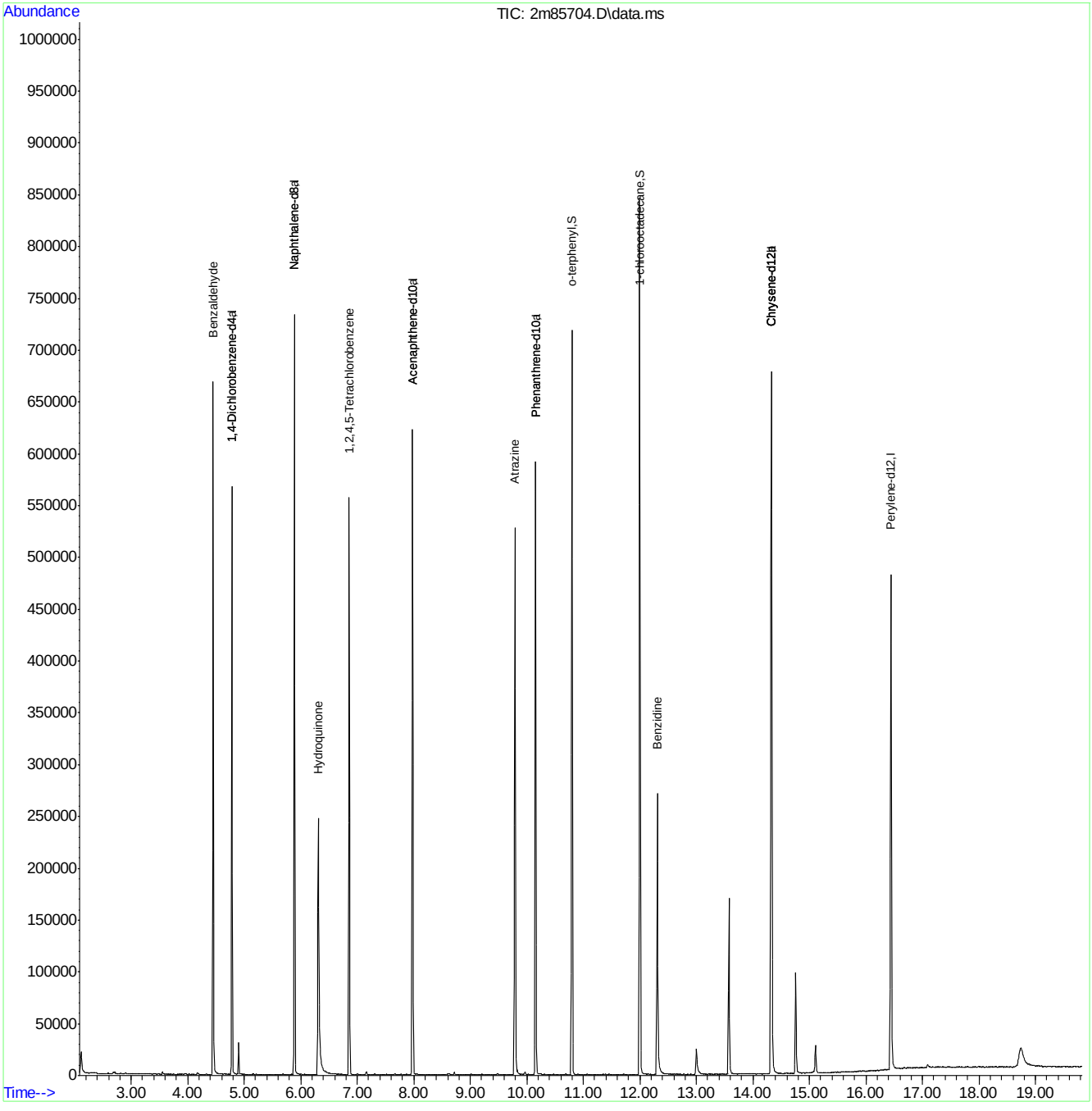
7.6.13

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E2M3791\
Data File : 2m85704.D
Acq On : 20 Jul 2016 10:42 pm
Operator : seanb1
Sample : icc3791-50
Misc : op95288,e2m3791
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jul 21 11:27:49 2016
Quant Method : C:\MSDCHEM\1\METHODS\M2M3789.M
Quant Title : Semi Volatile GC/MS,rxi 5sil ms 30m .25mm .25um
QLast Update : Thu Jul 21 11:24:37 2016
Response via : Initial Calibration



SGS ACCUTEST JC24978

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E2M3791\
Data File : 2m85705.D
Acq On : 20 Jul 2016 11:08 pm
Operator : seanb1
Sample : ic3791-25
Misc : op95288,e2m3791
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jul 21 11:28:51 2016
Quant Method : C:\MSDCHEM\1\METHODS\M2M3789.M
Quant Title : Semi Volatile GC/MS,rxi 5sil ms 30m .25mm .25um
QLast Update : Thu Jul 21 11:24:37 2016
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.783	152	94206	40.00 ppm	0.00
24) Naphthalene-d8	5.890	136	370668	40.00 ppm	0.00
47) Acenaphthene-d10	7.981	164	206884	40.00 ppm	0.00
69) Phenanthrene-d10	10.158	188	325796	40.00 ppm	0.00
83) Chrysene-d12	14.335	240	262273	40.00 ppm	0.00
91) Perylene-d12	16.448	264	255953	40.00 ppm	0.00
101) 1,4-Dichlorobenzene-d4a	4.783	152	94206	40.00 ppm	0.00
103) Acenaphthene-d10a	7.981	164	206884	40.00 ppm	0.00
105) Chrysene-d12a	14.335	240	262273	40.00 ppm	0.00
108) Phenanthrene-d10a	10.158	188	325796	40.00 ppm	0.00
111) Naphthalene-d8a	5.890	136	370668	40.00 ppm	0.00
113) Chrysene-d12b	14.335	240	262273	40.00 ppm	0.00

System Monitoring Compounds					
5) 2-Fluorophenol	0.000	112	0	0.00 ppm	
Spiked Amount 50.000			Recovery	= 0.00%	
8) Phenol-d5	0.000	99	0	0.00 ppm	
Spiked Amount 50.000			Recovery	= 0.00%	
25) Nitrobenzene-d5	0.000	82	0	0.00 ppm	
Spiked Amount 50.000			Recovery	= 0.00%	
51) 2-Fluorobiphenyl	0.000	172	0d	0.00 ppm	
Spiked Amount 50.000			Recovery	= 0.00%	
73) 2,4,6-Tribromophenol	0.000	330	0	0.00 ppm	
Spiked Amount 50.000			Recovery	= 0.00%	
85) Terphenyl-d14	0.000	244	0	0.00 ppm	
Spiked Amount 50.000			Recovery	= 0.00%	
107) 1-chlorooctadecane	11.998	57	74955	25.59 ppm	0.06
Spiked Amount 50.000			Recovery	= 51.18%	
110) o-terphenyl	10.800	230	90371	25.84 ppm	0.12
Spiked Amount 50.000			Recovery	= 51.68%	

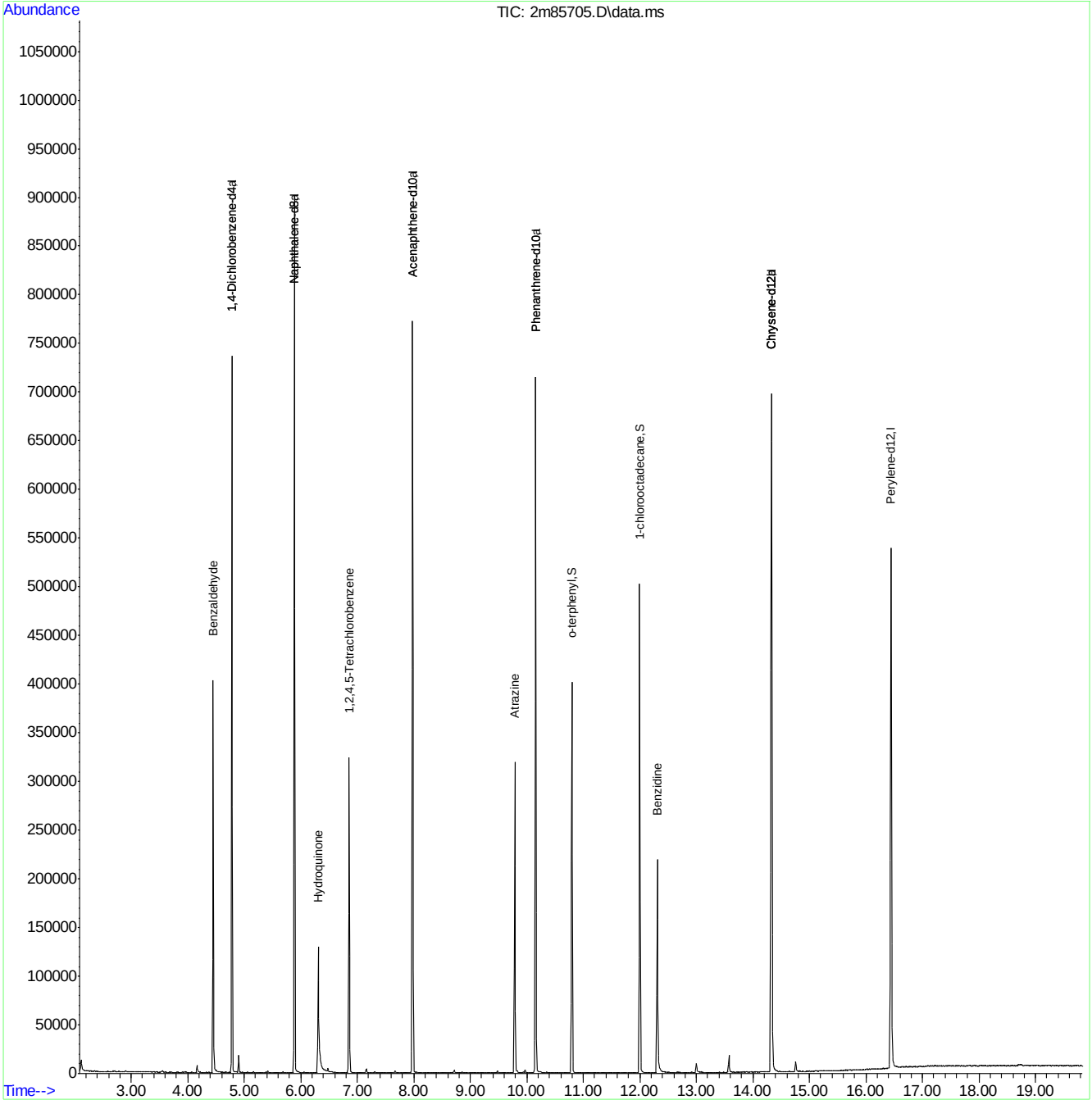
Target Compounds					Qvalue
102) Benzaldehyde	4.446	105	65164	39.16 ppm	91
104) 1,2,4,5-Tetrachloroben...	6.852	216	55350	25.98 ppm	97
106) Benzidine	12.308	184	108856	50.61 ppm	96
109) Atrazine	9.789	215	18762	24.58 ppm	93
112) Hydroquinone	6.307	110	73131	23.20 ppm	94

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E2M3791\
Data File : 2m85705.D
Acq On : 20 Jul 2016 11:08 pm
Operator : seanb1
Sample : ic3791-25
Misc : op95288,e2m3791
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jul 21 11:28:51 2016
Quant Method : C:\MSDCHEM\1\METHODS\M2M3789.M
Quant Title : Semi Volatile GC/MS,rxi 5sil ms 30m .25mm .25um
QLast Update : Thu Jul 21 11:24:37 2016
Response via : Initial Calibration



SGS ACCUTEST JC24978

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E2M3791\
Data File : 2m85706.D
Acq On : 20 Jul 2016 11:34 pm
Operator : seanb1
Sample : ic3791-10
Misc : op95288,e2m3791
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jul 21 11:29:47 2016
Quant Method : C:\MSDCHEM\1\METHODS\M2M3789.M
Quant Title : Semi Volatile GC/MS,rxi 5sil ms 30m .25mm .25um
QLast Update : Thu Jul 21 11:24:37 2016
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.783	152	96364	40.00 ppm	0.00
24) Naphthalene-d8	5.890	136	383842	40.00 ppm	0.00
47) Acenaphthene-d10	7.981	164	212429	40.00 ppm	0.00
69) Phenanthrene-d10	10.158	188	328678	40.00 ppm	0.00
83) Chrysene-d12	14.335	240	267182	40.00 ppm	0.00
91) Perylene-d12	16.443	264	256916	40.00 ppm	0.00
101) 1,4-Dichlorobenzene-d4a	4.783	152	96364	40.00 ppm	0.00
103) Acenaphthene-d10a	7.981	164	212429	40.00 ppm	0.00
105) Chrysene-d12a	14.335	240	267182	40.00 ppm	0.00
108) Phenanthrene-d10a	10.158	188	328678	40.00 ppm	0.00
111) Naphthalene-d8a	5.890	136	383842	40.00 ppm	0.00
113) Chrysene-d12b	14.335	240	267182	40.00 ppm	0.00

System Monitoring Compounds					
5) 2-Fluorophenol	0.000	112	0	0.00 ppm	
Spiked Amount 50.000			Recovery	= 0.00%	
8) Phenol-d5	0.000	99	0	0.00 ppm	
Spiked Amount 50.000			Recovery	= 0.00%	
25) Nitrobenzene-d5	0.000	82	0	0.00 ppm	
Spiked Amount 50.000			Recovery	= 0.00%	
51) 2-Fluorobiphenyl	0.000	172	0d	0.00 ppm	
Spiked Amount 50.000			Recovery	= 0.00%	
73) 2,4,6-Tribromophenol	0.000	330	0	0.00 ppm	
Spiked Amount 50.000			Recovery	= 0.00%	
85) Terphenyl-d14	0.000	244	0	0.00 ppm	
Spiked Amount 50.000			Recovery	= 0.00%	
107) 1-chlorooctadecane	11.998	57	30442	10.20 ppm	0.06
Spiked Amount 50.000			Recovery	= 20.40%	
110) o-terphenyl	10.794	230	38997	11.05 ppm	0.11
Spiked Amount 50.000			Recovery	= 22.10%	

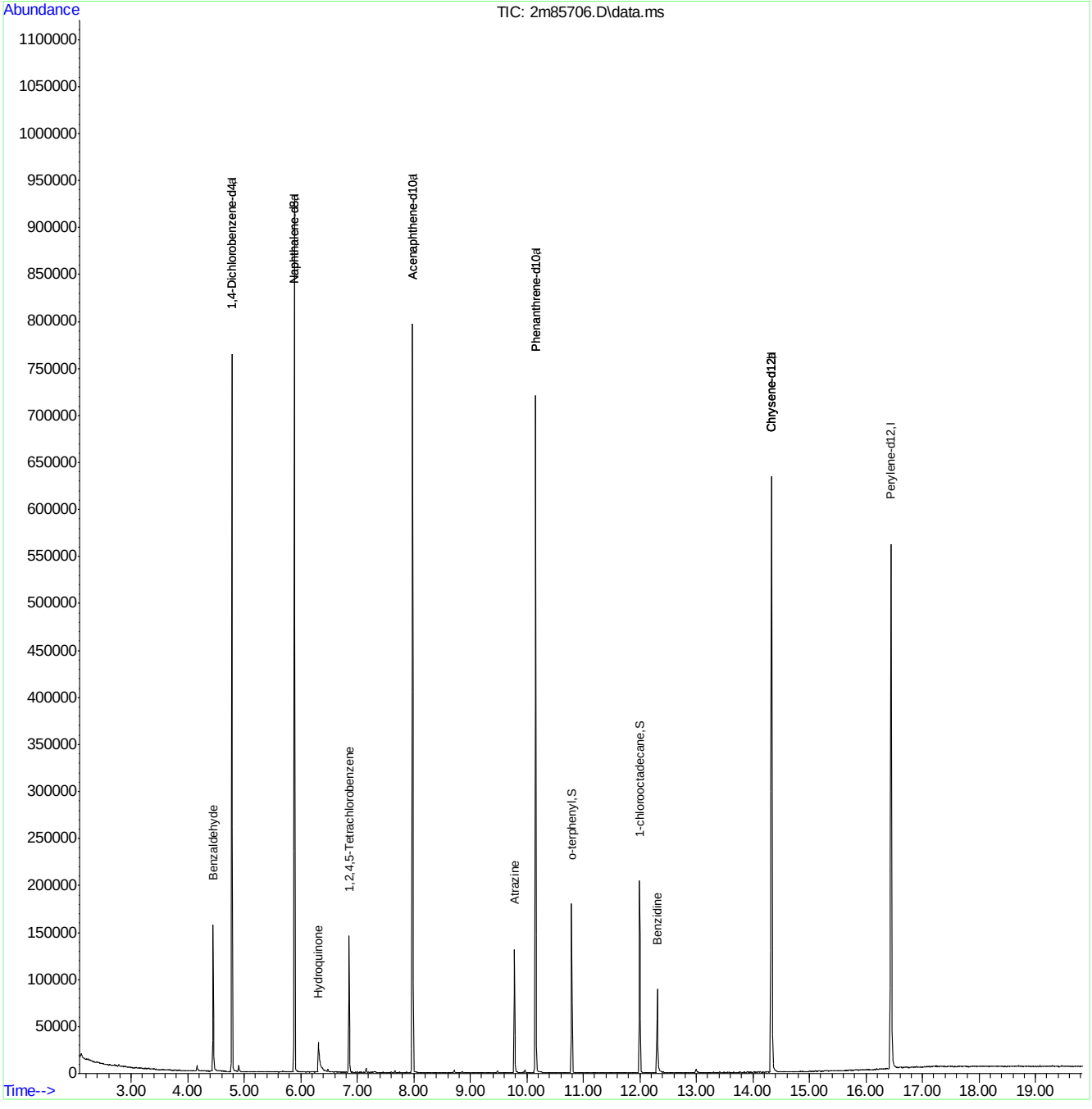
Target Compounds					Qvalue
102) Benzaldehyde	4.451	105	28205	16.57 ppm	95
104) 1,2,4,5-Tetrachloroben...	6.853	216	24294	11.11 ppm	99
106) Benzidine	12.308	184	46511	21.23 ppm	97
109) Atrazine	9.784	215	7585	9.85 ppm	94
112) Hydroquinone	6.312	110	25425	7.79 ppm	92

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E2M3791\
Data File : 2m85706.D
Acq On : 20 Jul 2016 11:34 pm
Operator : seanb1
Sample : ic3791-10
Misc : op95288,e2m3791
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jul 21 11:29:47 2016
Quant Method : C:\MSDCHEM\1\METHODS\M2M3789.M
Quant Title : Semi Volatile GC/MS,rxi 5sil ms 30m .25mm .25um
QLast Update : Thu Jul 21 11:24:37 2016
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E2M3791\
Data File : 2m85707.D
Acq On : 20 Jul 2016 11:59 pm
Operator : seanb1
Sample : ic3791-5
Misc : op95288,e2m3791
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jul 21 11:30:47 2016
Quant Method : C:\MSDCHEM\1\METHODS\M2M3789.M
Quant Title : Semi Volatile GC/MS,rxi 5sil ms 30m .25mm .25um
QLast Update : Thu Jul 21 11:24:37 2016
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.782	152	89027	40.00	ppm	0.00
24) Naphthalene-d8	5.890	136	358662	40.00	ppm	0.00
47) Acenaphthene-d10	7.981	164	201693	40.00	ppm	0.00
69) Phenanthrene-d10	10.158	188	314189	40.00	ppm	0.00
83) Chrysene-d12	14.335	240	258610	40.00	ppm	0.00
91) Perylene-d12	16.448	264	250609	40.00	ppm	0.00
101) 1,4-Dichlorobenzene-d4a	4.782	152	89027	40.00	ppm	0.00
103) Acenaphthene-d10a	7.981	164	201693	40.00	ppm	0.00
105) Chrysene-d12a	14.335	240	258610	40.00	ppm	0.00
108) Phenanthrene-d10a	10.158	188	314189	40.00	ppm	0.00
111) Naphthalene-d8a	5.890	136	358662	40.00	ppm	0.00
113) Chrysene-d12b	14.335	240	258610	40.00	ppm	0.00

System Monitoring Compounds						
5) 2-Fluorophenol	0.000	112	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
8) Phenol-d5	0.000	99	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
25) Nitrobenzene-d5	0.000	82	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
51) 2-Fluorobiphenyl	0.000	172	0d	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
73) 2,4,6-Tribromophenol	0.000	330	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
85) Terphenyl-d14	0.000	244	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
107) 1-chlorooctadecane	11.998	57	11310	3.92	ppm	0.06
Spiked Amount 50.000			Recovery	=	7.84%	
110) o-terphenyl	10.794	230	16983	5.04	ppm	0.11
Spiked Amount 50.000			Recovery	=	10.08%	

Target Compounds						Qvalue
102) Benzaldehyde	4.451	105	11554	7.35	ppm	92
104) 1,2,4,5-Tetrachloroben...	6.852	216	10836	5.22	ppm	97
106) Benzidine	12.308	184	15670	7.39	ppm	94
109) Atrazine	9.783	215	2945	4.00	ppm	95
112) Hydroquinone	6.333	110	9486	3.11	ppm	88

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

7.6.16

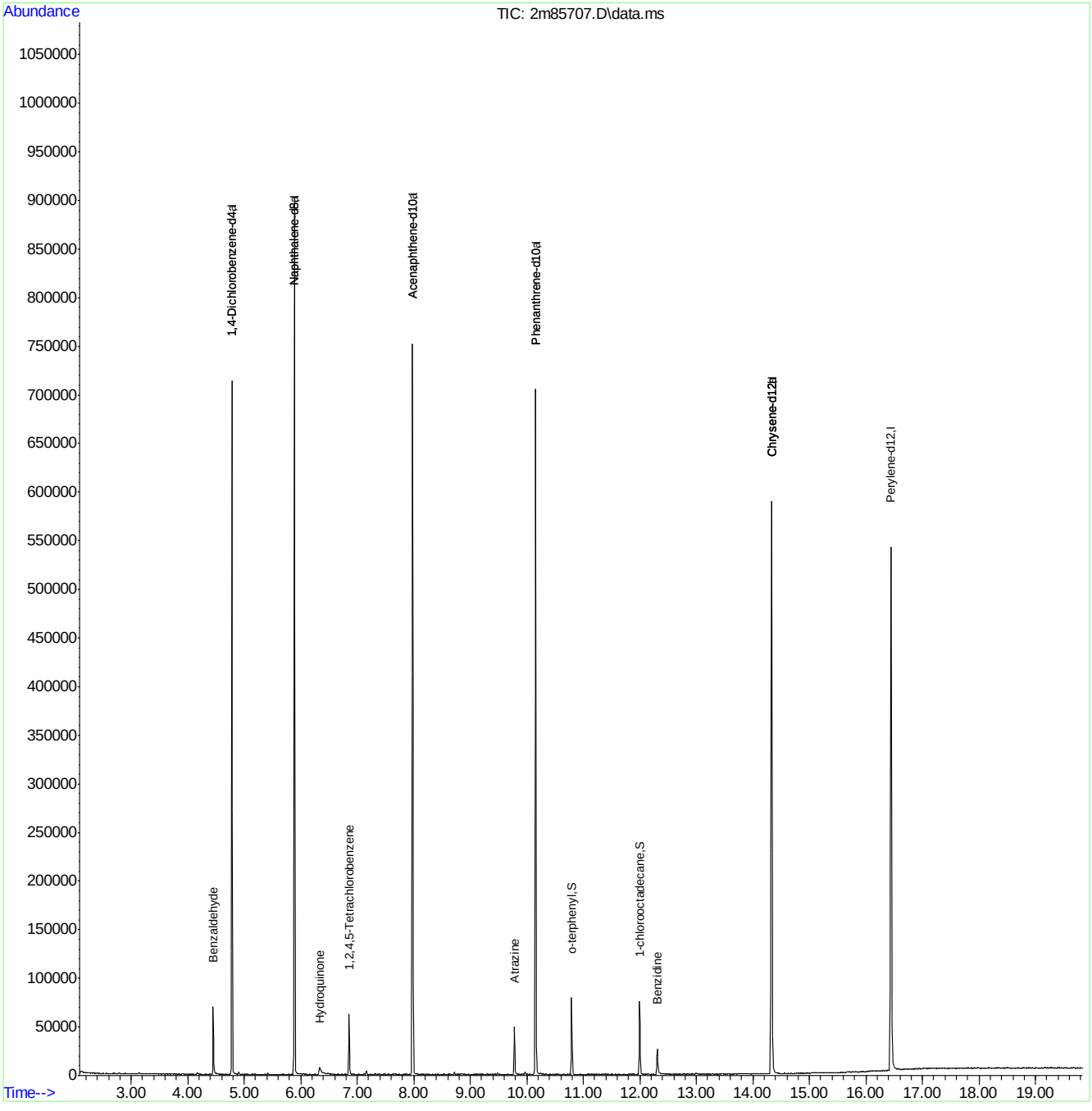
7

SGS ACCUTEST JC24978

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E2M3791\
Data File : 2m85707.D
Acq On : 20 Jul 2016 11:59 pm
Operator : seanb1
Sample : ic3791-5
Misc : op95288,e2m3791
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jul 21 11:30:47 2016
Quant Method : C:\MSDCHEM\1\METHODS\M2M3789.M
Quant Title : Semi Volatile GC/MS,rxi 5sil ms 30m .25mm .25um
QLast Update : Thu Jul 21 11:24:37 2016
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E2M3791\
Data File : 2m85708.D
Acq On : 21 Jul 2016 12:25 am
Operator : seanb1
Sample : ic3791-2
Misc : op95288,e2m3791
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jul 21 11:31:37 2016
Quant Method : C:\MSDCHEM\1\METHODS\M2M3789.M
Quant Title : Semi Volatile GC/MS,rxi 5sil ms 30m .25mm .25um
QLast Update : Thu Jul 21 11:24:37 2016
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.783	152	88547	40.00	ppm	0.00
24) Naphthalene-d8	5.890	136	354000	40.00	ppm	0.00
47) Acenaphthene-d10	7.981	164	201760	40.00	ppm	0.00
69) Phenanthrene-d10	10.158	188	313183	40.00	ppm	0.00
83) Chrysene-d12	14.335	240	250513	40.00	ppm	0.00
91) Perylene-d12	16.443	264	243862	40.00	ppm	0.00
101) 1,4-Dichlorobenzene-d4a	4.783	152	88547	40.00	ppm	0.00
103) Acenaphthene-d10a	7.981	164	201760	40.00	ppm	0.00
105) Chrysene-d12a	14.335	240	250513	40.00	ppm	0.00
108) Phenanthrene-d10a	10.158	188	313183	40.00	ppm	0.00
111) Naphthalene-d8a	5.890	136	354000	40.00	ppm	0.00
113) Chrysene-d12b	14.335	240	250513	40.00	ppm	0.00

System Monitoring Compounds						
5) 2-Fluorophenol	0.000	112	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
8) Phenol-d5	0.000	99	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
25) Nitrobenzene-d5	0.000	82	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
51) 2-Fluorobiphenyl	0.000	172	0d	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
73) 2,4,6-Tribromophenol	0.000	330	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
85) Terphenyl-d14	0.000	244	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
107) 1-chlorooctadecane	11.998	57	3704	1.32	ppm	0.06
Spiked Amount 50.000			Recovery	=	2.64%	
110) o-terphenyl	10.794	230	6296	1.87	ppm	0.11
Spiked Amount 50.000			Recovery	=	3.74%	

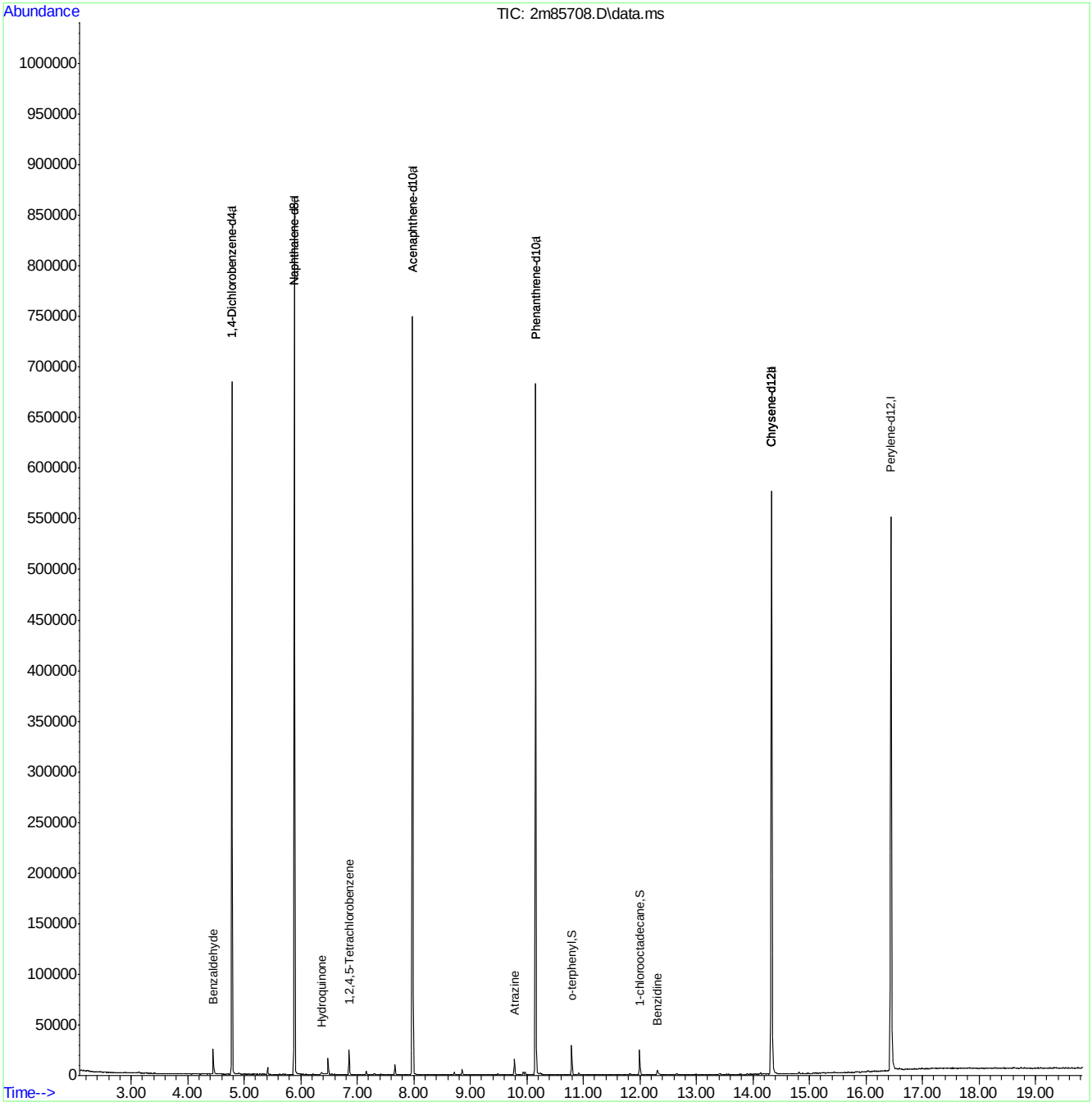
Target Compounds						Qvalue
102) Benzaldehyde	4.451	105	4642	2.97	ppm	93
104) 1,2,4,5-Tetrachloroben...	6.852	216	4428	2.13	ppm	96
106) Benzidine	12.313	184	3798	1.85	ppm	93
109) Atrazine	9.789	215	927	1.26	ppm	87
112) Hydroquinone	6.371	110	2166	0.72	ppm	90

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E2M3791\
Data File : 2m85708.D
Acq On : 21 Jul 2016 12:25 am
Operator : seanb1
Sample : ic3791-2
Misc : op95288,e2m3791
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jul 21 11:31:37 2016
Quant Method : C:\MSDCHEM\1\METHODS\M2M3789.M
Quant Title : Semi Volatile GC/MS,rxi 5sil ms 30m .25mm .25um
QLast Update : Thu Jul 21 11:24:37 2016
Response via : Initial Calibration



SGS ACCUTEST JC24978

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E2M3791\
Data File : 2m85709.D
Acq On : 21 Jul 2016 12:51 am
Operator : seanb1
Sample : ic3791-1
Misc : op95288,e2m3791
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jul 21 11:32:36 2016
Quant Method : C:\MSDCHEM\1\METHODS\M2M3789.M
Quant Title : Semi Volatile GC/MS,rxi 5sil ms 30m .25mm .25um
QLast Update : Thu Jul 21 11:24:37 2016
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.782	152	89925	40.00	ppm	0.00
24) Naphthalene-d8	5.890	136	359989	40.00	ppm	0.00
47) Acenaphthene-d10	7.976	164	203345	40.00	ppm	0.00
69) Phenanthrene-d10	10.158	188	312545	40.00	ppm	0.00
83) Chrysene-d12	14.330	240	253305	40.00	ppm	-0.01
91) Perylene-d12	16.442	264	247562	40.00	ppm	0.00
101) 1,4-Dichlorobenzene-d4a	4.782	152	89925	40.00	ppm	0.00
103) Acenaphthene-d10a	7.976	164	203345	40.00	ppm	0.00
105) Chrysene-d12a	14.330	240	253305	40.00	ppm	-0.01
108) Phenanthrene-d10a	10.158	188	312545	40.00	ppm	0.00
111) Naphthalene-d8a	5.890	136	359989	40.00	ppm	0.00
113) Chrysene-d12b	14.330	240	253305	40.00	ppm	-0.01

System Monitoring Compounds						
5) 2-Fluorophenol	0.000	112	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
8) Phenol-d5	0.000	99	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
25) Nitrobenzene-d5	0.000	82	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
51) 2-Fluorobiphenyl	0.000	172	0d	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
73) 2,4,6-Tribromophenol	0.000	330	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
85) Terphenyl-d14	0.000	244	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
107) 1-chlorooctadecane	11.998	57	1562	0.55	ppm	0.06
Spiked Amount 50.000			Recovery	=	1.10%	
110) o-terphenyl	10.794	230	3012	0.90	ppm	0.11
Spiked Amount 50.000			Recovery	=	1.80%	

Target Compounds							Qvalue
102) Benzaldehyde	4.456	105	2149	1.35	ppm		88
104) 1,2,4,5-Tetrachloroben...	6.852	216	2034	0.97	ppm		94
106) Benzidine	12.319	184	1024	0.49	ppm		86
109) Atrazine	9.783	215	369	0.50	ppm	#	69
112) Hydroquinone	6.398	110	533	0.17	ppm		58

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

7.6.18

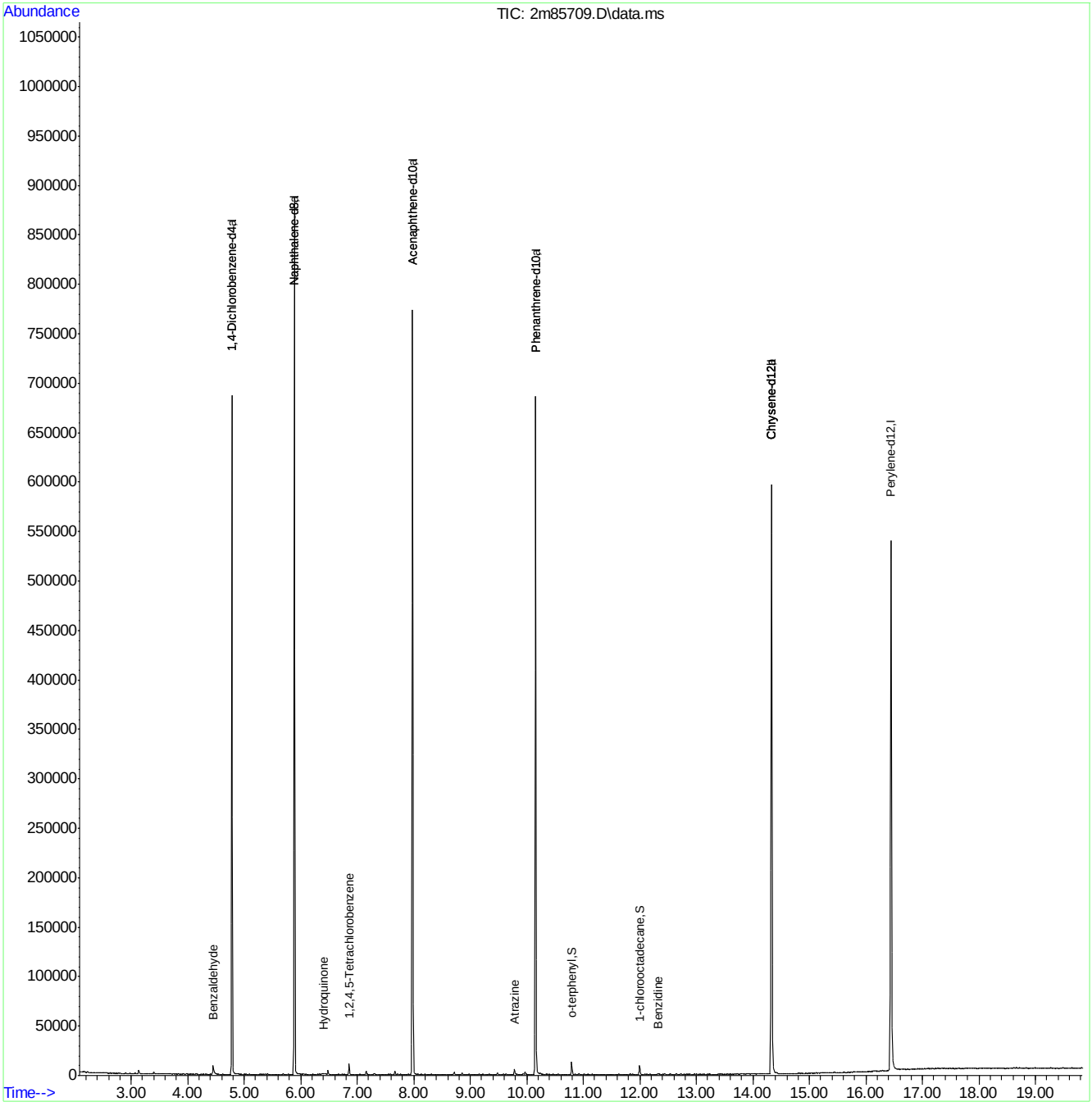
7

SGS ACCUTEST JC24978

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E2M3791\
Data File : 2m85709.D
Acq On : 21 Jul 2016 12:51 am
Operator : seanb1
Sample : ic3791-1
Misc : op95288,e2m3791
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jul 21 11:32:36 2016
Quant Method : C:\MSDCHEM\1\METHODS\M2M3789.M
Quant Title : Semi Volatile GC/MS,rxi 5sil ms 30m .25mm .25um
QLast Update : Thu Jul 21 11:24:37 2016
Response via : Initial Calibration



M2M3789.M Thu Jul 21 11:33:03 2016 Page: 2

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E2M3791\
Data File : 2m85710.D
Acq On : 21 Jul 2016 1:17 am
Operator : seanb1
Sample : icv3789-50
Misc : op95288,e2m3791
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jul 21 11:57:13 2016
Quant Method : C:\MSDCHEM\1\METHODS\M2M3789.M
Quant Title : Semi Volatile GC/MS,rxi 5sil ms 30m .25mm .25um
QLast Update : Thu Jul 21 11:50:56 2016
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.782	152	100595	40.00 ppm	0.00
24) Naphthalene-d8	5.890	136	388737	40.00 ppm	0.00
47) Acenaphthene-d10	7.981	164	207854	40.00 ppm	0.00
69) Phenanthrene-d10	10.158	188	304456	40.00 ppm	0.00
83) Chrysene-d12	14.340	240	229858	40.00 ppm	0.00
91) Perylene-d12	16.448	264	218190	40.00 ppm	0.00
101) 1,4-Dichlorobenzene-d4a	4.782	152	100595	40.00 ppm	0.00
103) Acenaphthene-d10a	7.981	164	207854	40.00 ppm	0.00
105) Chrysene-d12a	14.340	240	229858	40.00 ppm	0.01
108) Phenanthrene-d10a	10.158	188	304456	40.00 ppm	0.00
111) Naphthalene-d8a	5.890	136	388737	40.00 ppm	0.00
113) Chrysene-d12b	14.340	240	229858	40.00 ppm	0.01

System Monitoring Compounds					
5) 2-Fluorophenol	0.000	112	0	0.00 ppm	
Spiked Amount 50.000			Recovery	=	0.00%
8) Phenol-d5	0.000	99	0d	0.00 ppm	
Spiked Amount 50.000			Recovery	=	0.00%
25) Nitrobenzene-d5	0.000	82	0d	0.00 ppm	
Spiked Amount 50.000			Recovery	=	0.00%
51) 2-Fluorobiphenyl	0.000	172	0d	0.00 ppm	
Spiked Amount 50.000			Recovery	=	0.00%
73) 2,4,6-Tribromophenol	0.000	330	0	0.00 ppm	
Spiked Amount 50.000			Recovery	=	0.00%
85) Terphenyl-d14	0.000	244	0	0.00 ppm	
Spiked Amount 50.000			Recovery	=	0.00%
107) 1-chlorooctadecane	0.000	57	0	0.00 ppm	
Spiked Amount 50.000			Recovery	=	0.00%
110) o-terphenyl	0.000	230	0	0.00 ppm	
Spiked Amount 50.000			Recovery	=	0.00%

Target Compounds					Qvalue
4) N-Nitrosodimethylamine	2.643	74	117781	46.61 ppm	95
11) bis(2-Chloroethyl)ether	4.574	93	185196	49.42 ppm	97
14) 1,3-Dichlorobenzene	4.740	146	186625	46.09 ppm	99
15) 1,4-Dichlorobenzene	4.793	146	188558	46.58 ppm	100
17) 1,2-Dichlorobenzene	4.916	146	178088	47.10 ppm	100
20) 2,2'-oxybis(1-Chloropr...	4.991	45	283226	47.18 ppm	97
22) n-Nitroso-di-n-propyla...	5.098	70	120966	48.57 ppm	93
23) Hexachloroethane	5.194	201	54998	47.66 ppm	98
26) Nitrobenzene	5.242	77	174549	45.72 ppm	95
28) Isophorone	5.451	82	319817	47.83 ppm	96
32) bis(2-Chloroethoxy)met...	5.643	93	200286	48.70 ppm	99
36) 1,2,4-Trichlorobenzene	5.836	180	133433	47.04 ppm	100
38) Naphthalene	5.911	128	473812	45.51 ppm	100
42) Hexachlorobutadiene	6.039	225	65142	49.40 ppm	99
48) Hexachlorocyclopentadiene	6.852	237	48207	42.24 ppm	99
52) 2-Chloronaphthalene	7.243	162	270967	47.42 ppm	99
55) Dimethylphthalate	7.633	163	281653	44.86 ppm	100
56) Acenaphthylene	7.783	152	427978	44.99 ppm	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E2M3791\
Data File : 2m85710.D
Acq On : 21 Jul 2016 1:17 am
Operator : seanb1
Sample : icv3789-50
Misc : op95288,e2m3791
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jul 21 11:57:13 2016
Quant Method : C:\MSDCHEM\1\METHODS\M2M3789.M
Quant Title : Semi Volatile GC/MS,rxi 5sil ms 30m .25mm .25um
QLast Update : Thu Jul 21 11:50:56 2016
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
57) 2,6-Dinitrotoluene	7.703	165	61502	47.01 ppm	97
59) Acenaphthene	8.024	153	270102	45.82 ppm	99
63) 2,4-Dinitrotoluene	8.259	165	77655	44.24 ppm	79
65) Diethylphthalate	8.633	149	276956	44.45 ppm	100
66) Fluorene	8.756	166	286066	44.15 ppm	98
67) 4-Chlorophenyl-phenyle...	8.772	204	127463	45.74 ppm	99
71) n-Nitrosodiphenylamine	8.949	169	191502	45.74 ppm	100
72) 1,2-Diphenylhydrazine	9.008	77	314320	49.02 ppm	98
74) 4-Bromophenyl-phenylether	9.500	248	65265	48.46 ppm	98
75) Hexachlorobenzene	9.585	284	70504	47.51 ppm	98
77) Phenanthrene	10.195	178	386225	45.30 ppm	100
78) Anthracene	10.270	178	375073	44.12 ppm	99
80) Di-n-butylphthalate	11.169	149	449362	45.90 ppm	99
81) Fluoranthene	12.051	202	368284	44.68 ppm	99
84) Pyrene	12.404	202	390585	47.48 ppm	99
86) Butylbenzylphthalate	13.538	149	187997	47.42 ppm	95
87) Benzo[a]anthracene	14.324	228	298319	44.70 ppm	99
89) Chrysene	14.378	228	299708	43.59 ppm	100
90) bis(2-Ethylhexyl)phtha...	14.501	149	256681	45.37 ppm	99
92) Di-n-octylphthalate	15.485	149	434563	49.03 ppm	100
93) Benzo[b]fluoranthene	15.929	252	283216	43.40 ppm	97
94) Benzo[k]fluoranthene	15.966	252	296911	47.18 ppm	99
95) Benzo[a]pyrene	16.368	252	268246	46.26 ppm	99
96) Indeno[1,2,3-cd]pyrene	18.020	276	249457	43.97 ppm	98
98) Dibenz[a,h]anthracene	18.063	278	262498	44.02 ppm	99
100) Benzo[g,h,i]perylene	18.470	276	261655	43.62 ppm	99

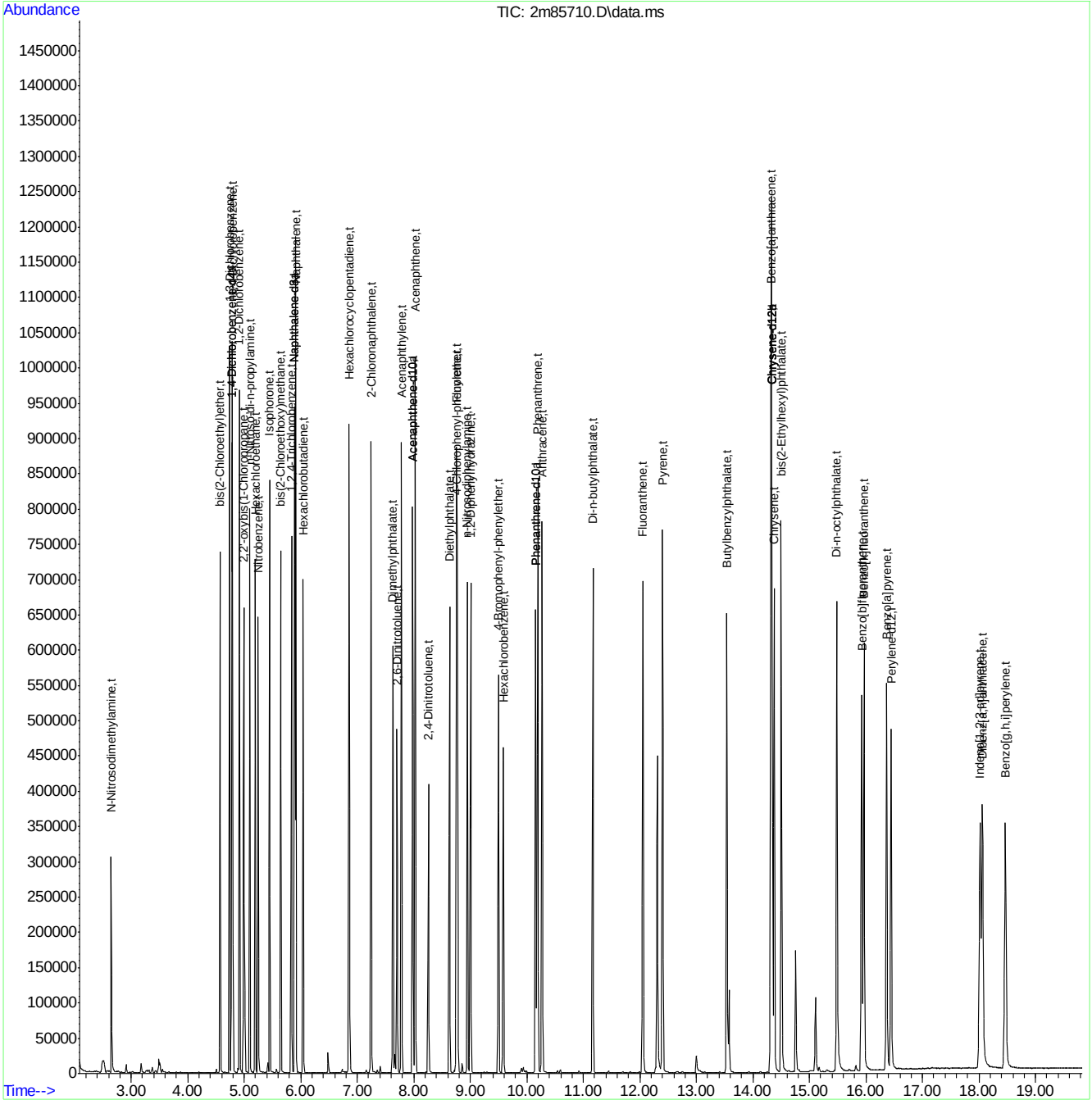
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC24978

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E2M3791\
Data File : 2m85710.D
Acq On : 21 Jul 2016 1:17 am
Operator : seanb1
Sample : icv3789-50
Misc : op95288,e2m3791
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jul 21 11:57:13 2016
Quant Method : C:\MSDCHEM\1\METHODS\M2M3789.M
Quant Title : Semi Volatile GC/MS,rxi 5sil ms 30m .25mm .25um
QLast Update : Thu Jul 21 11:50:56 2016
Response via : Initial Calibration



SGS ACCUTEST JC24978

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E2M3791\
Data File : 2m85710A.D
Acq On : 21 Jul 2016 1:17 am
Operator : seanb1
Sample : icv3791-50
Misc : op95288,e2m3791
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jul 21 11:56:51 2016
Quant Method : C:\MSDCHEM\1\METHODS\M2M3789.M
Quant Title : Semi Volatile GC/MS,rxi 5sil ms 30m .25mm .25um
QLast Update : Thu Jul 21 11:50:56 2016
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.782	152	100595	40.00 ppm	0.00
24) Naphthalene-d8	5.890	136	388737	40.00 ppm	0.00
47) Acenaphthene-d10	7.981	164	207854	40.00 ppm	0.00
69) Phenanthrene-d10	10.158	188	304456	40.00 ppm	0.00
83) Chrysene-d12	14.340	240	229858	40.00 ppm	0.00
91) Perylene-d12	16.448	264	218190	40.00 ppm	0.00
101) 1,4-Dichlorobenzene-d4a	4.782	152	100595	40.00 ppm	0.00
103) Acenaphthene-d10a	7.981	164	207854	40.00 ppm	0.00
105) Chrysene-d12a	14.340	240	229858	40.00 ppm	0.01
108) Phenanthrene-d10a	10.158	188	304456	40.00 ppm	0.00
111) Naphthalene-d8a	5.890	136	388737	40.00 ppm	0.00
113) Chrysene-d12b	14.340	240	229858	40.00 ppm	0.01

System Monitoring Compounds					
5) 2-Fluorophenol	0.000	112	0	0.00 ppm	
Spiked Amount 50.000			Recovery	=	0.00%
8) Phenol-d5	0.000	99	0d	0.00 ppm	
Spiked Amount 50.000			Recovery	=	0.00%
25) Nitrobenzene-d5	0.000	82	0d	0.00 ppm	
Spiked Amount 50.000			Recovery	=	0.00%
51) 2-Fluorobiphenyl	0.000	172	0d	0.00 ppm	
Spiked Amount 50.000			Recovery	=	0.00%
73) 2,4,6-Tribromophenol	0.000	330	0	0.00 ppm	
Spiked Amount 50.000			Recovery	=	0.00%
85) Terphenyl-d14	0.000	244	0	0.00 ppm	
Spiked Amount 50.000			Recovery	=	0.00%
107) 1-chlorooctadecane	0.000	57	0	0.00 ppm	
Spiked Amount 50.000			Recovery	=	0.00%
110) o-terphenyl	0.000	230	0	0.00 ppm	
Spiked Amount 50.000			Recovery	=	0.00%

Target Compounds					Qvalue
104) 1,2,4,5-Tetrachloroben...	6.858	216	116329	52.19 ppm	99
106) Benzidine	12.308	184	210779	77.19 ppm	99

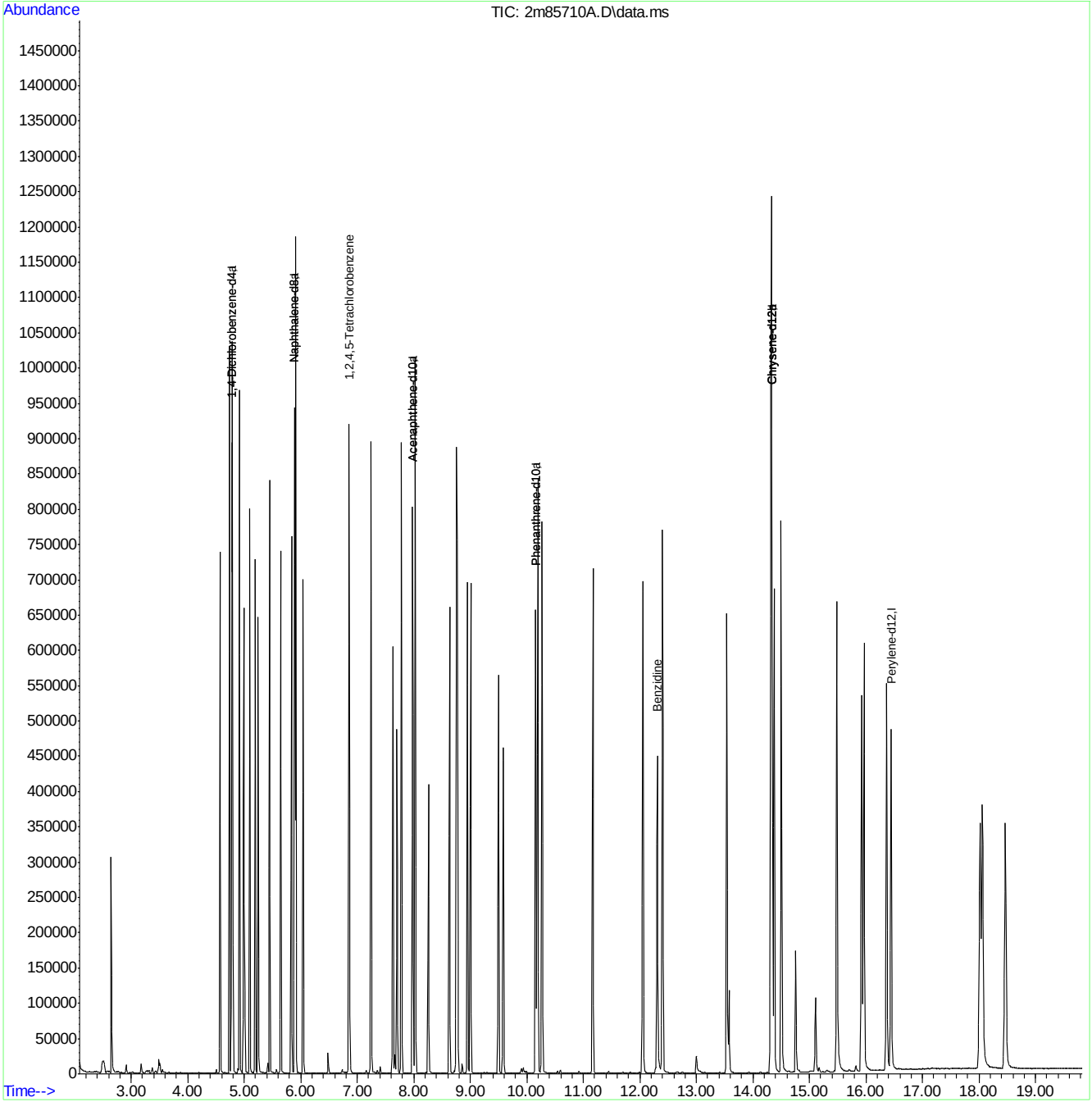
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC24978

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E2M3791\
Data File : 2m85710A.D
Acq On : 21 Jul 2016 1:17 am
Operator : seanb1
Sample : icv3791-50
Misc : op95288,e2m3791
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jul 21 11:56:51 2016
Quant Method : C:\MSDCHEM\1\METHODS\M2M3789.M
Quant Title : Semi Volatile GC/MS,rxi 5sil ms 30m .25mm .25um
QLast Update : Thu Jul 21 11:50:56 2016
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E2M3791\
Data File : 2m85711.D
Acq On : 21 Jul 2016 1:42 am
Operator : seanb1
Sample : icv3789-50
Misc : op95288,e2m3791
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jul 21 12:01:49 2016
Quant Method : C:\MSDCHEM\1\METHODS\M2M3789.M
Quant Title : Semi Volatile GC/MS,rxi 5sil ms 30m .25mm .25um
QLast Update : Thu Jul 21 11:50:56 2016
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.783	152	97718	40.00 ppm	0.00
24) Naphthalene-d8	5.890	136	384981	40.00 ppm	0.00
47) Acenaphthene-d10	7.976	164	202095	40.00 ppm	0.00
69) Phenanthrene-d10	10.158	188	303171	40.00 ppm	0.00
83) Chrysene-d12	14.330	240	224535	40.00 ppm	-0.01
91) Perylene-d12	16.443	264	167645	40.00 ppm	0.00
101) 1,4-Dichlorobenzene-d4a	4.783	152	97718	40.00 ppm	0.00
103) Acenaphthene-d10a	7.976	164	202095	40.00 ppm	0.00
105) Chrysene-d12a	14.330	240	224535	40.00 ppm	0.00
108) Phenanthrene-d10a	10.158	188	303171	40.00 ppm	0.00
111) Naphthalene-d8a	5.890	136	384981	40.00 ppm	0.00
113) Chrysene-d12b	14.330	240	224535	40.00 ppm	0.00

System Monitoring Compounds					
5) 2-Fluorophenol	0.000	112	0	0.00 ppm	
Spiked Amount 50.000			Recovery	=	0.00%
8) Phenol-d5	0.000	99	0d	0.00 ppm	
Spiked Amount 50.000			Recovery	=	0.00%
25) Nitrobenzene-d5	0.000	82	0	0.00 ppm	
Spiked Amount 50.000			Recovery	=	0.00%
51) 2-Fluorobiphenyl	0.000	172	0d	0.00 ppm	
Spiked Amount 50.000			Recovery	=	0.00%
73) 2,4,6-Tribromophenol	0.000	330	0	0.00 ppm	
Spiked Amount 50.000			Recovery	=	0.00%
85) Terphenyl-d14	0.000	244	0	0.00 ppm	
Spiked Amount 50.000			Recovery	=	0.00%
107) 1-chlorooctadecane	0.000	57	0	0.00 ppm	
Spiked Amount 50.000			Recovery	=	0.00%
110) o-terphenyl	0.000	230	0	0.00 ppm	
Spiked Amount 50.000			Recovery	=	0.00%

Target Compounds					Qvalue
2) 1,4-Dioxane	2.365	88	86445	48.25 ppm	100
6) Indene	4.986	116	350811	55.09 ppm	98
7) Cumene	4.189	105	458742	51.54 ppm	99
13) Decane	4.660	43	256611	54.04 ppm	98
18) Acetophenone	5.098	105	264551	55.12 ppm	83
27) Quinoline	6.253	129	285306	39.42 ppm	99
40) 2,3-Dichloroaniline	6.992	161	124018	37.29 ppm	98
41) Caprolactam	6.307	55	88007	49.52 ppm	99
45) 1-Methylnaphthalene	6.772	141	297016	50.10 ppm	98
46) Dimethylnaphthalene	7.425	156	306367	50.66 ppm	98
53) Biphenyl	7.222	154	410764	53.35 ppm	100
82) Octadecane	10.110	57	270796	57.73 ppm	99
99) 7,12-Dimethylbenz(a)an...	15.924	256	145984	63.91 ppm	100

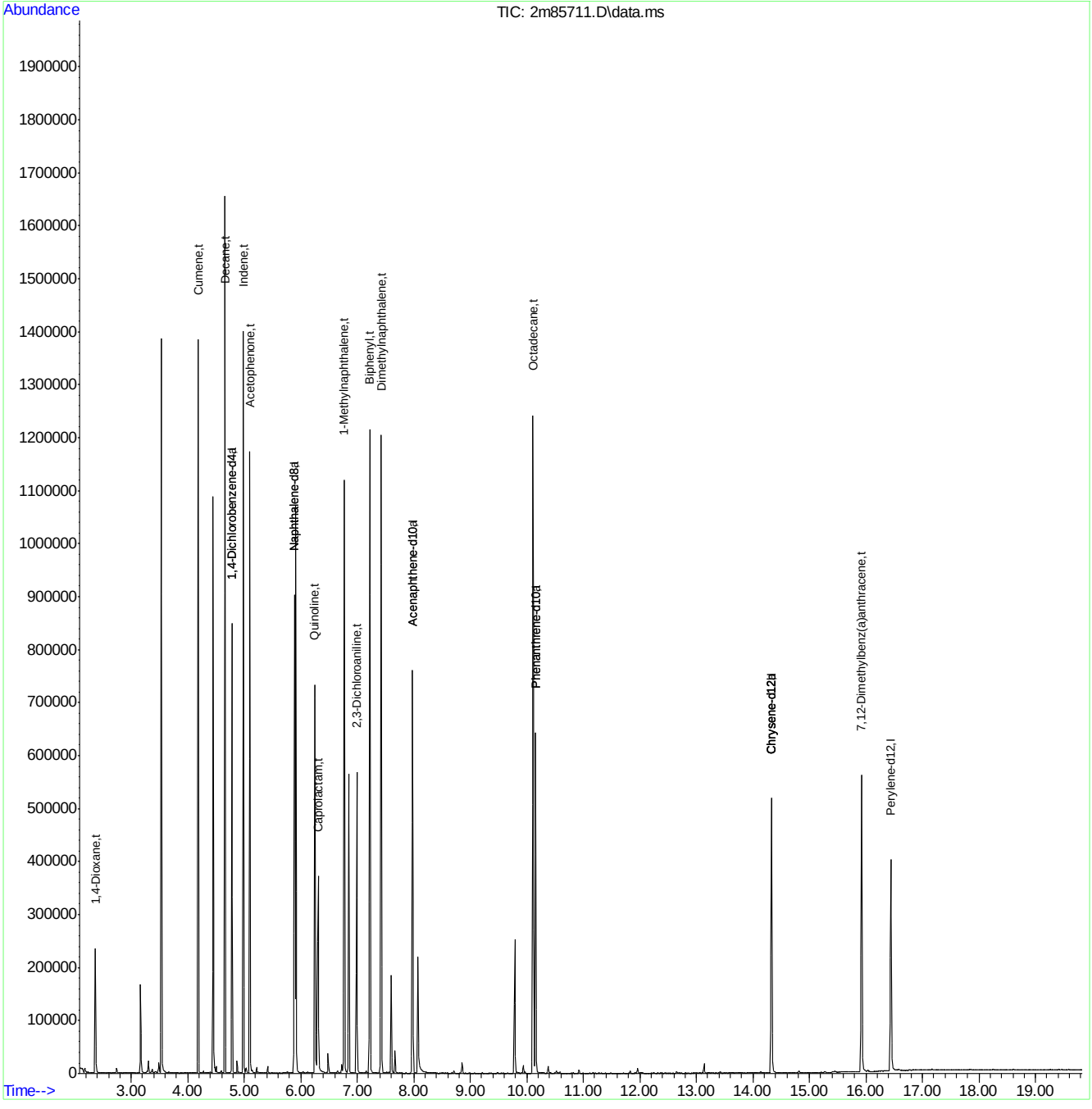
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC24978

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E2M3791\
Data File : 2m85711.D
Acq On : 21 Jul 2016 1:42 am
Operator : seanb1
Sample : icv3789-50
Misc : op95288,e2m3791
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jul 21 12:01:49 2016
Quant Method : C:\MSDCHEM\1\METHODS\M2M3789.M
Quant Title : Semi Volatile GC/MS,rxi 5sil ms 30m .25mm .25um
QLast Update : Thu Jul 21 11:50:56 2016
Response via : Initial Calibration



SGS ACCUTEST JC24978

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E2M3791\
Data File : 2m85712.D
Acq On : 21 Jul 2016 2:08 am
Operator : seanb1
Sample : icv3789-50
Misc : op95288,e2m3791
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jul 21 12:04:18 2016
Quant Method : C:\MSDCHEM\1\METHODS\M2M3789.M
Quant Title : Semi Volatile GC/MS,rxi 5sil ms 30m .25mm .25um
QLast Update : Thu Jul 21 11:50:56 2016
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.782	152	91408	40.00 ppm	0.00
24) Naphthalene-d8	5.890	136	387714	40.00 ppm	0.00
47) Acenaphthene-d10	7.976	164	216208	40.00 ppm	0.00
69) Phenanthrene-d10	10.158	188	310749	40.00 ppm	0.00
83) Chrysene-d12	14.330	240	226855	40.00 ppm	-0.01
91) Perylene-d12	16.442	264	199554	40.00 ppm	0.00
101) 1,4-Dichlorobenzene-d4a	4.782	152	91408	40.00 ppm	0.00
103) Acenaphthene-d10a	7.976	164	216208	40.00 ppm	0.00
105) Chrysene-d12a	14.330	240	226855	40.00 ppm	0.00
108) Phenanthrene-d10a	10.158	188	310749	40.00 ppm	0.00
111) Naphthalene-d8a	5.890	136	387714	40.00 ppm	0.00
113) Chrysene-d12b	14.330	240	226855	40.00 ppm	0.00

System Monitoring Compounds					
5) 2-Fluorophenol	0.000	112	0	0.00 ppm	
Spiked Amount 50.000			Recovery	=	0.00%
8) Phenol-d5	0.000	99	0	0.00 ppm	
Spiked Amount 50.000			Recovery	=	0.00%
25) Nitrobenzene-d5	0.000	82	0	0.00 ppm	
Spiked Amount 50.000			Recovery	=	0.00%
51) 2-Fluorobiphenyl	0.000	172	0d	0.00 ppm	
Spiked Amount 50.000			Recovery	=	0.00%
73) 2,4,6-Tribromophenol	0.000	330	0	0.00 ppm	
Spiked Amount 50.000			Recovery	=	0.00%
85) Terphenyl-d14	0.000	244	0	0.00 ppm	
Spiked Amount 50.000			Recovery	=	0.00%
107) 1-chlorooctadecane	0.000	57	0	0.00 ppm	
Spiked Amount 50.000			Recovery	=	0.00%
110) o-terphenyl	0.000	230	0	0.00 ppm	
Spiked Amount 50.000			Recovery	=	0.00%

Target Compounds					Qvalue
3) Pyridine	2.766	79	196919	48.41 ppm	97
10) Aniline	4.536	93	290950	50.43 ppm	96
16) Benzyl alcohol	4.895	108	118954	50.09 ppm	97
39) 4-Chloroaniline	5.959	127	208443	45.17 ppm	99
44) 2-Methylnaphthalene	6.654	141	268935	45.02 ppm	100
54) 2-Nitroaniline	7.376	65	92950	45.78 ppm	95
58) 3-Nitroaniline	7.927	138	85425	44.10 ppm	94
62) Dibenzofuran	8.264	168	407192	45.79 ppm	99
68) 4-Nitroaniline	8.799	138	84436	44.29 ppm	93
79) Carbazole	10.543	167	411236	47.22 ppm	99

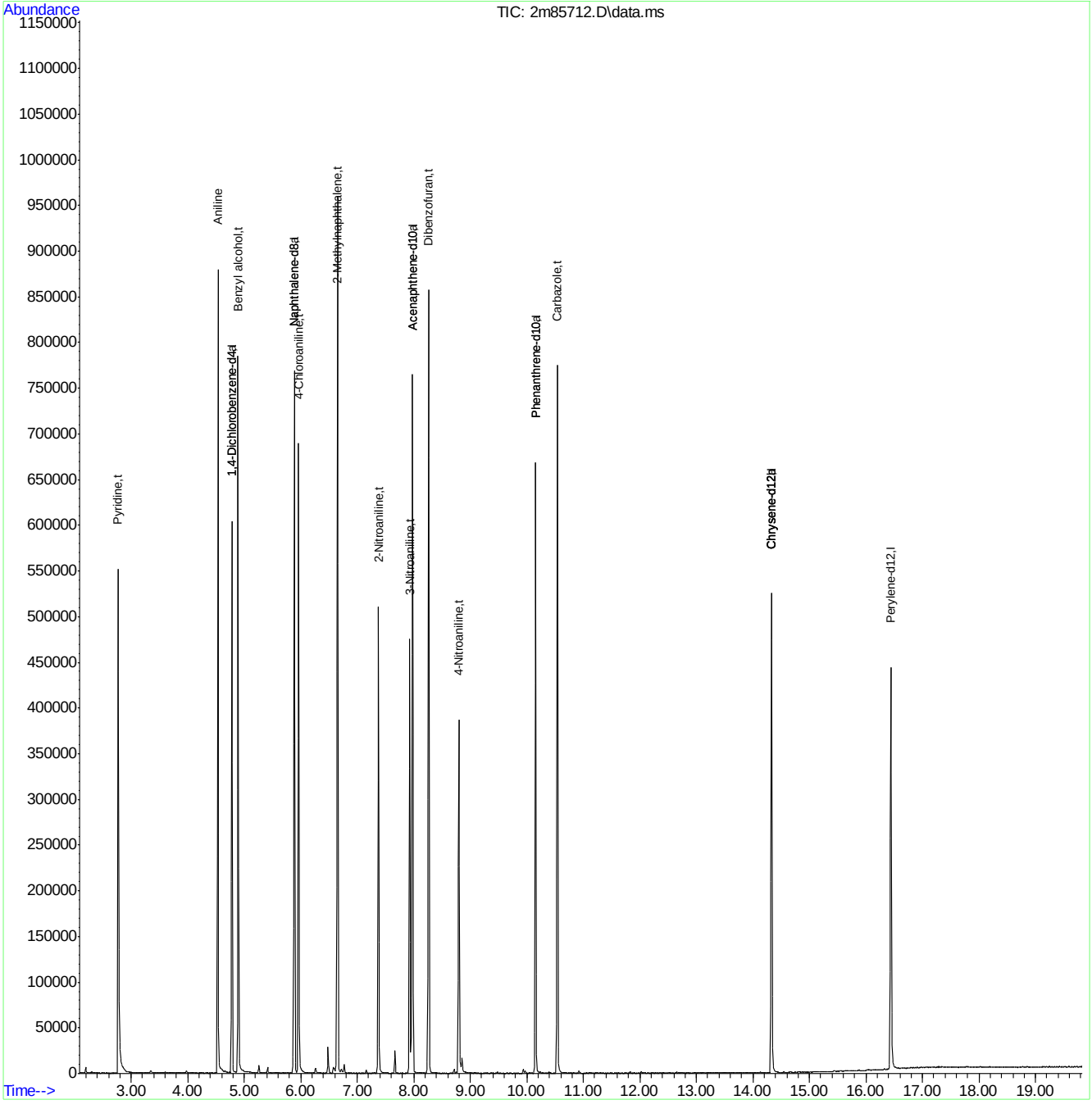
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC24978

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E2M3791\
Data File : 2m85712.D
Acq On : 21 Jul 2016 2:08 am
Operator : seanb1
Sample : icv3789-50
Misc : op95288,e2m3791
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jul 21 12:04:18 2016
Quant Method : C:\MSDCHEM\1\METHODS\M2M3789.M
Quant Title : Semi Volatile GC/MS,rxi 5sil ms 30m .25mm .25um
QLast Update : Thu Jul 21 11:50:56 2016
Response via : Initial Calibration



M2M3789.M Thu Jul 21 12:04:28 2016 Page: 2

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E2M3791\
Data File : 2m85713.D
Acq On : 21 Jul 2016 2:34 am
Operator : seanb1
Sample : icv3789-50
Misc : op95288,e2m3791
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jul 21 12:05:22 2016
Quant Method : C:\MSDCHEM\1\METHODS\M2M3789.M
Quant Title : Semi Volatile GC/MS,rxi 5sil ms 30m .25mm .25um
QLast Update : Thu Jul 21 11:50:56 2016
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.783	152	95147	40.00 ppm	0.00
24) Naphthalene-d8	5.890	136	373846	40.00 ppm	0.00
47) Acenaphthene-d10	7.976	164	203537	40.00 ppm	0.00
69) Phenanthrene-d10	10.158	188	317637	40.00 ppm	0.00
83) Chrysene-d12	14.330	240	262684	40.00 ppm	-0.01
91) Perylene-d12	16.443	264	255834	40.00 ppm	0.00
101) 1,4-Dichlorobenzene-d4a	4.783	152	95147	40.00 ppm	0.00
103) Acenaphthene-d10a	7.976	164	203537	40.00 ppm	0.00
105) Chrysene-d12a	14.330	240	262684	40.00 ppm	0.00
108) Phenanthrene-d10a	10.158	188	317637	40.00 ppm	0.00
111) Naphthalene-d8a	5.890	136	373846	40.00 ppm	0.00
113) Chrysene-d12b	14.330	240	262684	40.00 ppm	0.00

System Monitoring Compounds					
5) 2-Fluorophenol	0.000	112	0	0.00 ppm	
Spiked Amount 50.000			Recovery	=	0.00%
8) Phenol-d5	0.000	99	0	0.00 ppm	
Spiked Amount 50.000			Recovery	=	0.00%
25) Nitrobenzene-d5	0.000	82	0	0.00 ppm	
Spiked Amount 50.000			Recovery	=	0.00%
51) 2-Fluorobiphenyl	0.000	172	0d	0.00 ppm	
Spiked Amount 50.000			Recovery	=	0.00%
73) 2,4,6-Tribromophenol	0.000	330	0	0.00 ppm	
Spiked Amount 50.000			Recovery	=	0.00%
85) Terphenyl-d14	0.000	244	0	0.00 ppm	
Spiked Amount 50.000			Recovery	=	0.00%
107) 1-chlorooctadecane	0.000	57	0	0.00 ppm	
Spiked Amount 50.000			Recovery	=	0.00%
110) o-terphenyl	0.000	230	0	0.00 ppm	
Spiked Amount 50.000			Recovery	=	0.00%

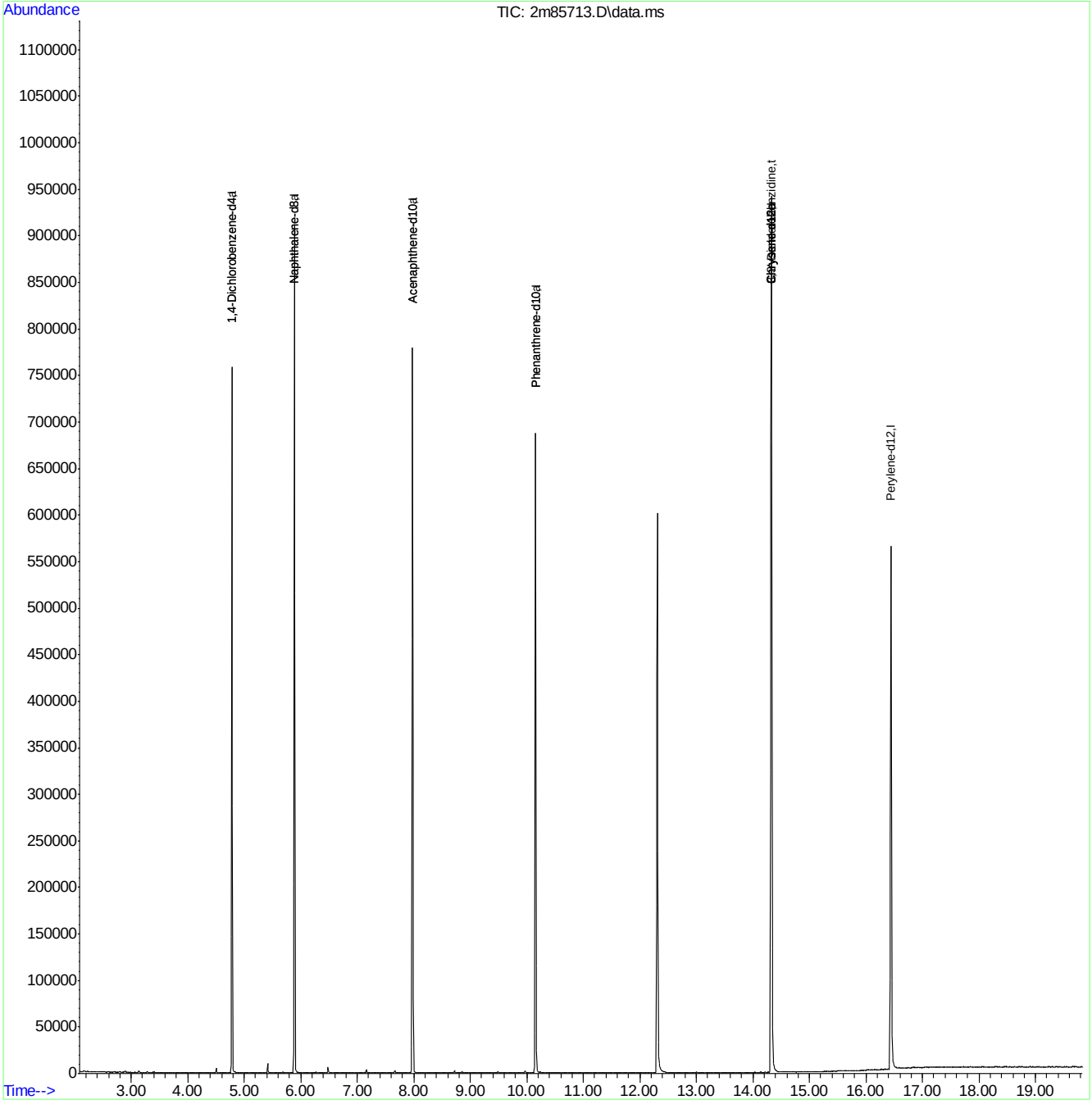
Target Compounds					Qvalue
88) 3,3'-Dichlorobenzidine	14.325	252	128464	49.05 ppm	98

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E2M3791\
Data File : 2m85713.D
Acq On : 21 Jul 2016 2:34 am
Operator : seanb1
Sample : icv3789-50
Misc : op95288,e2m3791
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jul 21 12:05:22 2016
Quant Method : C:\MSDCHEM\1\METHODS\M2M3789.M
Quant Title : Semi Volatile GC/MS,rxi 5sil ms 30m .25mm .25um
QLast Update : Thu Jul 21 11:50:56 2016
Response via : Initial Calibration



SGS ACCUTEST JC24978

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E2M3791\
Data File : 2m85714.D
Acq On : 21 Jul 2016 3:00 am
Operator : seanb1
Sample : icv3791-50
Misc : op95288,e2m3791
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Jul 21 12:07:01 2016
Quant Method : C:\MSDCHEM\1\METHODS\M2M3789.M
Quant Title : Semi Volatile GC/MS,rxi 5sil ms 30m .25mm .25um
QLast Update : Thu Jul 21 11:50:56 2016
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.783	152	98699	40.00 ppm	0.00
24) Naphthalene-d8	5.890	136	389612	40.00 ppm	0.00
47) Acenaphthene-d10	7.976	164	215790	40.00 ppm	0.00
69) Phenanthrene-d10	10.153	188	332402	40.00 ppm	0.00
83) Chrysene-d12	14.330	240	270917	40.00 ppm	-0.01
91) Perylene-d12	16.443	264	263127	40.00 ppm	0.00
101) 1,4-Dichlorobenzene-d4a	4.783	152	98699	40.00 ppm	0.00
103) Acenaphthene-d10a	7.976	164	215790	40.00 ppm	0.00
105) Chrysene-d12a	14.330	240	270917	40.00 ppm	0.00
108) Phenanthrene-d10a	10.153	188	332402	40.00 ppm	0.00
111) Naphthalene-d8a	5.890	136	389612	40.00 ppm	0.00
113) Chrysene-d12b	14.330	240	270917	40.00 ppm	0.00

System Monitoring Compounds					
5) 2-Fluorophenol	0.000	112	0	0.00 ppm	
Spiked Amount 50.000			Recovery	=	0.00%
8) Phenol-d5	0.000	99	0	0.00 ppm	
Spiked Amount 50.000			Recovery	=	0.00%
25) Nitrobenzene-d5	0.000	82	0	0.00 ppm	
Spiked Amount 50.000			Recovery	=	0.00%
51) 2-Fluorobiphenyl	0.000	172	0d	0.00 ppm	
Spiked Amount 50.000			Recovery	=	0.00%
73) 2,4,6-Tribromophenol	0.000	330	0	0.00 ppm	
Spiked Amount 50.000			Recovery	=	0.00%
85) Terphenyl-d14	0.000	244	0	0.00 ppm	
Spiked Amount 50.000			Recovery	=	0.00%
107) 1-chlorooctadecane	0.000	57	0	0.00 ppm	
Spiked Amount 50.000			Recovery	=	0.00%
110) o-terphenyl	0.000	230	0	0.00 ppm	
Spiked Amount 50.000			Recovery	=	0.00%

Target Compounds					Qvalue
112) Hydroquinone	6.307	110	164487	54.98 ppm	99

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

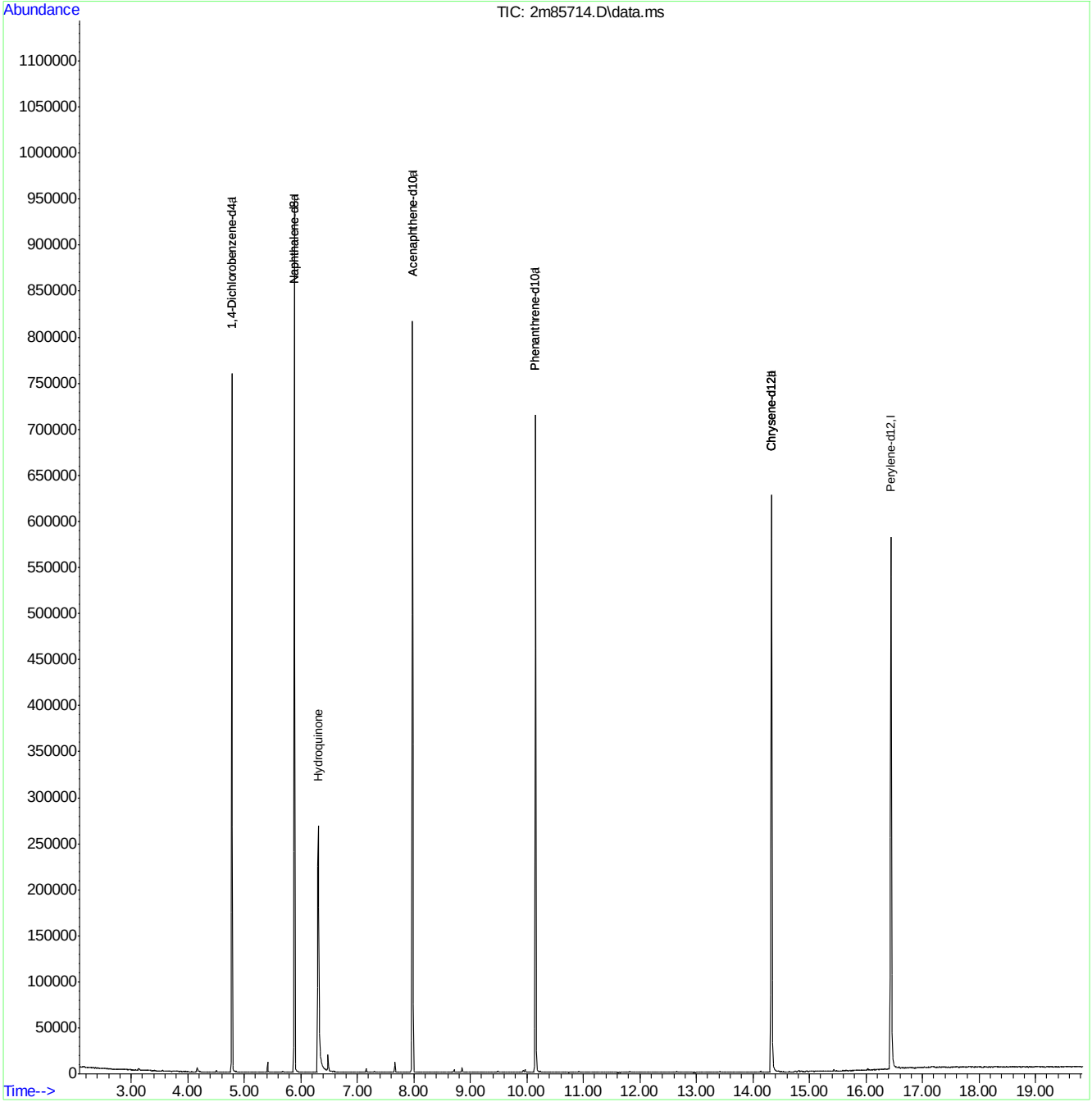
7.6.24

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E2M3791\
Data File : 2m85714.D
Acq On : 21 Jul 2016 3:00 am
Operator : seanb1
Sample : icv3791-50
Misc : op95288,e2m3791
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Jul 21 12:07:01 2016
Quant Method : C:\MSDCHEM\1\METHODS\M2M3789.M
Quant Title : Semi Volatile GC/MS,rxi 5sil ms 30m .25mm .25um
QLast Update : Thu Jul 21 11:50:56 2016
Response via : Initial Calibration



SGS ACCUTEST JC24978

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E2M3792\
Data File : 2m85719.D
Acq On : 21 Jul 2016 3:59 pm
Operator : ashleyn
Sample : icv3791-50
Misc : op95288,e2m3792
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jul 21 16:22:22 2016
Quant Method : C:\MSDCHEM\1\METHODS\M2M3789.M
Quant Title : Semi Volatile GC/MS,rxi 5sil ms 30m .25mm .25um
QLast Update : Thu Jul 21 11:50:56 2016
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.777	152	106565	40.00 ppm	0.00
24) Naphthalene-d8	5.884	136	425482	40.00 ppm	0.00
47) Acenaphthene-d10	7.970	164	228991	40.00 ppm	-0.01
69) Phenanthrene-d10	10.147	188	341908	40.00 ppm	-0.01
83) Chrysene-d12	14.325	240	256852	40.00 ppm	-0.02
91) Perylene-d12	16.437	264	239229	40.00 ppm	-0.01
101) 1,4-Dichlorobenzene-d4a	4.777	152	106565	40.00 ppm	0.00
103) Acenaphthene-d10a	7.970	164	228991	40.00 ppm	0.00
105) Chrysene-d12a	14.325	240	256852	40.00 ppm	0.00
108) Phenanthrene-d10a	10.147	188	341908	40.00 ppm	-0.01
111) Naphthalene-d8a	5.884	136	425482	40.00 ppm	0.00
113) Chrysene-d12b	14.325	240	256852	40.00 ppm	0.00

System Monitoring Compounds					
5) 2-Fluorophenol	0.000	112	0	0.00 ppm	
Spiked Amount 50.000			Recovery	=	0.00%
8) Phenol-d5	0.000	99	0d	0.00 ppm	
Spiked Amount 50.000			Recovery	=	0.00%
25) Nitrobenzene-d5	0.000	82	0d	0.00 ppm	
Spiked Amount 50.000			Recovery	=	0.00%
51) 2-Fluorobiphenyl	0.000	172	0d	0.00 ppm	
Spiked Amount 50.000			Recovery	=	0.00%
73) 2,4,6-Tribromophenol	0.000	330	0	0.00 ppm	
Spiked Amount 50.000			Recovery	=	0.00%
85) Terphenyl-d14	0.000	244	0	0.00 ppm	
Spiked Amount 50.000			Recovery	=	0.00%
107) 1-chlorooctadecane	0.000	57	0d	0.00 ppm	
Spiked Amount 50.000			Recovery	=	0.00%
110) o-terphenyl	0.000	230	0	0.00 ppm	
Spiked Amount 50.000			Recovery	=	0.00%

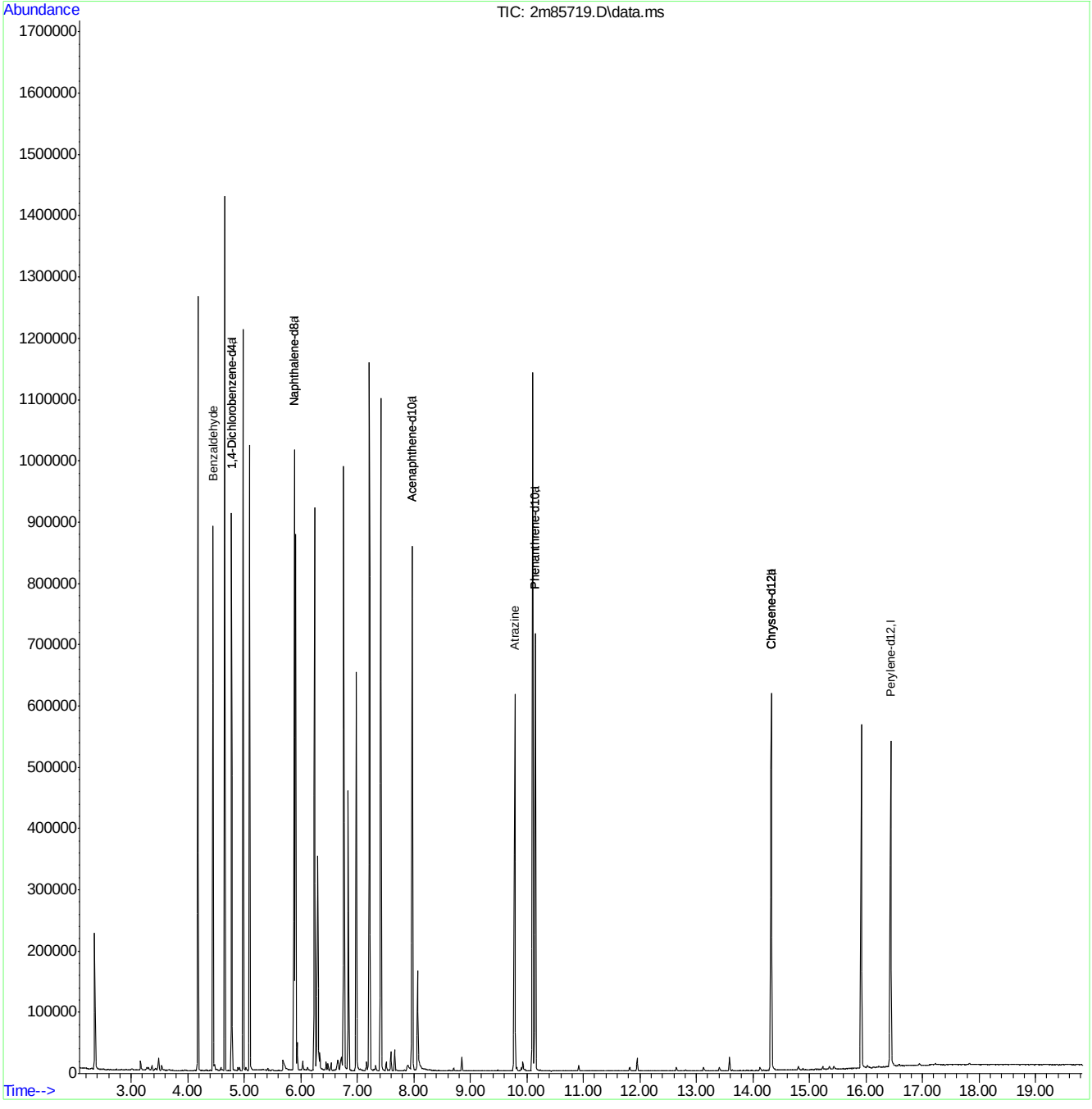
Target Compounds					Qvalue
102) Benzaldehyde	4.446	105	131851	50.24 ppm	95
109) Atrazine	9.789	215	42399	57.36 ppm	95

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E2M3792\
Data File : 2m85719.D
Acq On : 21 Jul 2016 3:59 pm
Operator : ashleyn
Sample : icv3791-50
Misc : op95288,e2m3792
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jul 21 16:22:22 2016
Quant Method : C:\MSDCHEM\1\METHODS\M2M3789.M
Quant Title : Semi Volatile GC/MS,rxi 5sil ms 30m .25mm .25um
QLast Update : Thu Jul 21 11:50:56 2016
Response via : Initial Calibration



M2M3789.M Thu Jul 21 16:22:30 2016 Page: 2

Manual Integrations APPROVED (compounds with "m" flag)
Nina Pandya
08/02/16 15:16

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E2M3807\
Data File : 2m85990.D
Acq On : 31 Jul 2016 12:16 pm
Operator : kristis
Sample : cc3789-50
Misc : op95842,e2m3807,1000,,,1,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 31 13:00:30 2016
Quant Method : C:\MSDCHEM\1\METHODS\M2M3789.M
Quant Title : Semi Volatile GC/MS,rxi 5sil ms 30m .25mm .25um
QLast Update : Thu Jul 28 23:07:38 2016
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.702	152	59184	40.00	ppm	-0.02
24) Naphthalene-d8	5.799	136	238236	40.00	ppm	-0.02
47) Acenaphthene-d10	7.869	164	138576	40.00	ppm	-0.02
69) Phenanthrene-d10	10.040	188	220189	40.00	ppm	-0.03
83) Chrysene-d12	14.217	240	198933	40.00	ppm	-0.03
91) Perylene-d12	16.325	264	193382	40.00	ppm	-0.03
101) 1,4-Dichlorobenzene-d4a	4.702	152	59184	40.00	ppm	-0.02
103) Acenaphthene-d10a	7.869	164	138576	40.00	ppm	-0.02
105) Chrysene-d12a	14.217	240	198933	40.00	ppm	-0.03
107) Phenanthrene-d10a	10.040	188	220189	40.00	ppm	-0.03
109) Naphthalene-d8a	5.799	136	238236	40.00	ppm	-0.02

System Monitoring Compounds						
5) 2-Fluorophenol	3.734	112	108103	52.38	ppm	-0.01
Spiked Amount 50.000			Recovery = 104.76%			
8) Phenol-d5	4.451	99	139325	53.19	ppm	0.00
Spiked Amount 50.000			Recovery = 106.38%			
25) Nitrobenzene-d5	5.146	82	126831	58.22	ppm	-0.02
Spiked Amount 50.000			Recovery = 116.44%			
51) 2-Fluorobiphenyl	6.991	172	224158	53.20	ppm	-0.03
Spiked Amount 50.000			Recovery = 106.40%			
73) 2,4,6-Tribromophenol	9.002	330	29246	64.93	ppm	-0.03
Spiked Amount 50.000			Recovery = 129.86%			
85) Terphenyl-d14	12.591	244	208622	51.41	ppm	-0.04
Spiked Amount 50.000			Recovery = 102.82%			

Target Compounds							Qvalue
2) 1,4-Dioxane	2.247	88	48160	44.38	ppm		91
3) Pyridine	2.584	79	127274	48.32	ppm		95
4) N-Nitrosodimethylamine	2.547	74	77951	52.44	ppm		89
6) Indene	4.905	116	216894	56.24	ppm		99
7) Cumene	4.103	105	300850	55.81	ppm		98
9) Phenol	4.456	94	166092	53.38	ppm	#	58
10) Aniline	4.462	93	152308	40.77	ppm	#	41
11) bis(2-Chloroethyl)ether	4.499	93	122843	55.72	ppm		95
12) 2-Chlorophenol	4.552	128	124087	54.33	ppm		96
13) Decane	4.579	43	164894	57.33	ppm		95
14) 1,3-Dichlorobenzene	4.659	146	127017	53.32	ppm		99
15) 1,4-Dichlorobenzene	4.713	146	130817	54.93	ppm		100
16) Benzyl alcohol	4.815	108	81260	52.85	ppm		89
17) 1,2-Dichlorobenzene	4.836	146	120182	54.03	ppm		100
18) Acetophenone	5.018	105	170571	58.68	ppm		86
19) 2-Methylphenol	4.911	108	109761	55.15	ppm		97
20) 2,2'-oxybis(1-Chloropr...	4.911	45	191628	54.25	ppm		91
21) 3&4-Methylphenol	5.034	108	120835	58.08	ppm		97
22) n-Nitroso-di-n-propyla...	5.023	70	85372	58.26	ppm		96
23) Hexachloroethane	5.109	201	37663	55.48	ppm		98
26) Nitrobenzene	5.162	77	135370	57.86	ppm		94
27) Quinoline	6.162	129	240185	53.63	ppm		97
28) Isophorone	5.365	82	228976	55.87	ppm		97

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E2M3807\
Data File : 2m85990.D
Acq On : 31 Jul 2016 12:16 pm
Operator : kristis
Sample : cc3789-50
Misc : op95842,e2m3807,1000,,,1,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 31 13:00:30 2016
Quant Method : C:\MSDCHEM\1\METHODS\M2M3789.M
Quant Title : Semi Volatile GC/MS,rxi 5sil ms 30m .25mm .25um
QLast Update : Thu Jul 28 23:07:38 2016
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
29) 2-Nitrophenol	5.440	139	68487	59.08	ppm		90
30) 2,4-Dimethylphenol	5.483	107	115300	54.76	ppm		94
31) Benzoic acid	5.606	105	96135	56.80	ppm		95
32) bis(2-Chloroethoxy)met...	5.558	93	139269	55.26	ppm		99
33) 2,4-Dichlorophenol	5.670	162	95982	56.24	ppm		98
34) 2,6-Dichlorophenol	5.884	162	94792	56.10	ppm		99
35) 1,3,5-Trichlorobenzene	5.451	180	102819	54.78	ppm		99
36) 1,2,4-Trichlorobenzene	5.740	180	94250	54.22	ppm		99
37) 1,2,3-Trichlorobenzene	5.964	180	95524	55.15	ppm		98
38) Naphthalene	5.815	128	344402	53.98	ppm		99
39) 4-Chloroaniline	5.874	127	136054	47.98	ppm		97
40) 2,3-Dichloroaniline	6.890	161	115134	55.95	ppm		99
41) Caprolactam	6.253	55	67575	61.45	ppm		94
42) Hexachlorobutadiene	5.943	225	48229	59.68	ppm		98
43) 4-Chloro-3-methylphenol	6.403	107	107327	58.19	ppm		97
44) 2-Methylnaphthalene	6.553	141	205559	56.01	ppm		98
45) 1-Methylnaphthalene	6.665	141	203863	55.57	ppm		97
46) Dimethylnaphthalene	7.318	156	208229	55.64	ppm		99
48) Hexachlorocyclopentadiene	6.740	237	103489	136.01	ppm		99
49) 2,4,6-Trichlorophenol	6.900	196	65971	59.48	ppm		96
50) 2,4,5-Trichlorophenol	6.954	196	68372	56.99	ppm		98
52) 2-Chloronaphthalene	7.136	162	201849	52.99	ppm		96
53) Biphenyl	7.114	154	281553	53.33	ppm		100
54) 2-Nitroaniline	7.280	65	78864	60.60	ppm		93
55) Dimethylphthalate	7.521	163	230927	55.17	ppm		98
56) Acenaphthylene	7.671	152	344827	54.37	ppm		99
57) 2,6-Dinitrotoluene	7.601	165	54225	62.17	ppm		99
58) 3-Nitroaniline	7.831	138	69197	55.74	ppm		96
59) Acenaphthene	7.911	153	214014	54.45	ppm		98
60) 2,4-Dinitrophenol	7.976	184	59050	110.82	ppm		79
61) 4-Nitrophenol	8.120	109	37944	76.38	ppm	#	70
62) Dibenzofuran	8.152	168	309069	54.22	ppm		99
63) 2,4-Dinitrotoluene	8.157	165	74607	63.76	ppm		99
64) 2,3,4,6-Tetrachlorophenol	8.350	232	49110	60.11	ppm		96
65) Diethylphthalate	8.521	149	239653	57.69	ppm		98
66) Fluorene	8.644	166	238577	55.23	ppm		99
67) 4-Chlorophenyl-phenyle...	8.660	204	101102	54.42	ppm		98
68) 4-Nitroaniline	8.703	138	69368	56.78	ppm		81
70) 4,6-Dinitro-2-methylph...	8.751	198	41991	55.53	ppm		97
71) n-Nitrosodiphenylamine	8.842	169	160604	53.04	ppm		99
72) 1,2-Diphenylhydrazine	8.890	77	271777	58.61	ppm		96
74) 4-Bromophenyl-phenylether	9.382	248	54273	55.72	ppm		98
75) Hexachlorobenzene	9.468	284	60632	56.50	ppm		97
76) Pentachlorophenol	9.783	266	79727	138.13	ppm		98
77) Phenanthrene	10.078	178	328680	53.30	ppm		99
78) Anthracene	10.152	178	329635	53.61	ppm		99
79) Carbazole	10.431	167	328370	53.21	ppm		99
80) Di-n-butylphthalate	11.046	149	421556	59.54	ppm		99
81) Fluoranthene	11.934	202	334580	56.13	ppm		98
82) Octadecane	9.987	57	188180	55.23	ppm		93

SGS ACCUTEST JC24978

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E2M3807\
Data File : 2m85990.D
Acq On : 31 Jul 2016 12:16 pm
Operator : kristis
Sample : cc3789-50
Misc : op95842,e2m3807,1000,,,1,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 31 13:00:30 2016
Quant Method : C:\MSDCHEM\1\METHODS\M2M3789.M
Quant Title : Semi Volatile GC/MS,rxi 5sil ms 30m .25mm .25um
QLast Update : Thu Jul 28 23:07:38 2016
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
84) Pyrene	12.281	202	353294	49.62 ppm	99
86) Butylbenzylphthalate	13.420	149	188379	54.90 ppm	96
87) Benzo[a]anthracene	14.201	228	309978	53.66 ppm	99
88) 3,3'-Dichlorobenzidine	14.207	252	118320	59.65 ppm	97
89) Chrysene	14.260	228	291391	48.97 ppm	100
90) bis(2-Ethylhexyl)phtha...	14.378	149	262311	53.58 ppm	96
92) Di-n-octylphthalate	15.362	149	448499	57.10 ppm	99
93) Benzo[b]fluoranthene	15.811	252	326009	56.37 ppm	97
94) Benzo[k]fluoranthene	15.854	252	291934	52.34 ppm	98
95) Benzo[a]pyrene	16.250	252	270041	52.54 ppm	99
96) Indeno[1,2,3-cd]pyrene	17.865	276	275908m	54.87 ppm	
97) Dibenz(a,h)acridine	17.512	279	247275	53.10 ppm	100
98) Dibenz[a,h]anthracene	17.903	278	278657	52.73 ppm	96
99) 7,12-Dimethylbenz(a)an...	15.811	256	150399	57.08 ppm	99
100) Benzo[g,h,i]perylene	18.304	276	276776	52.06 ppm	97

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

7.6.26

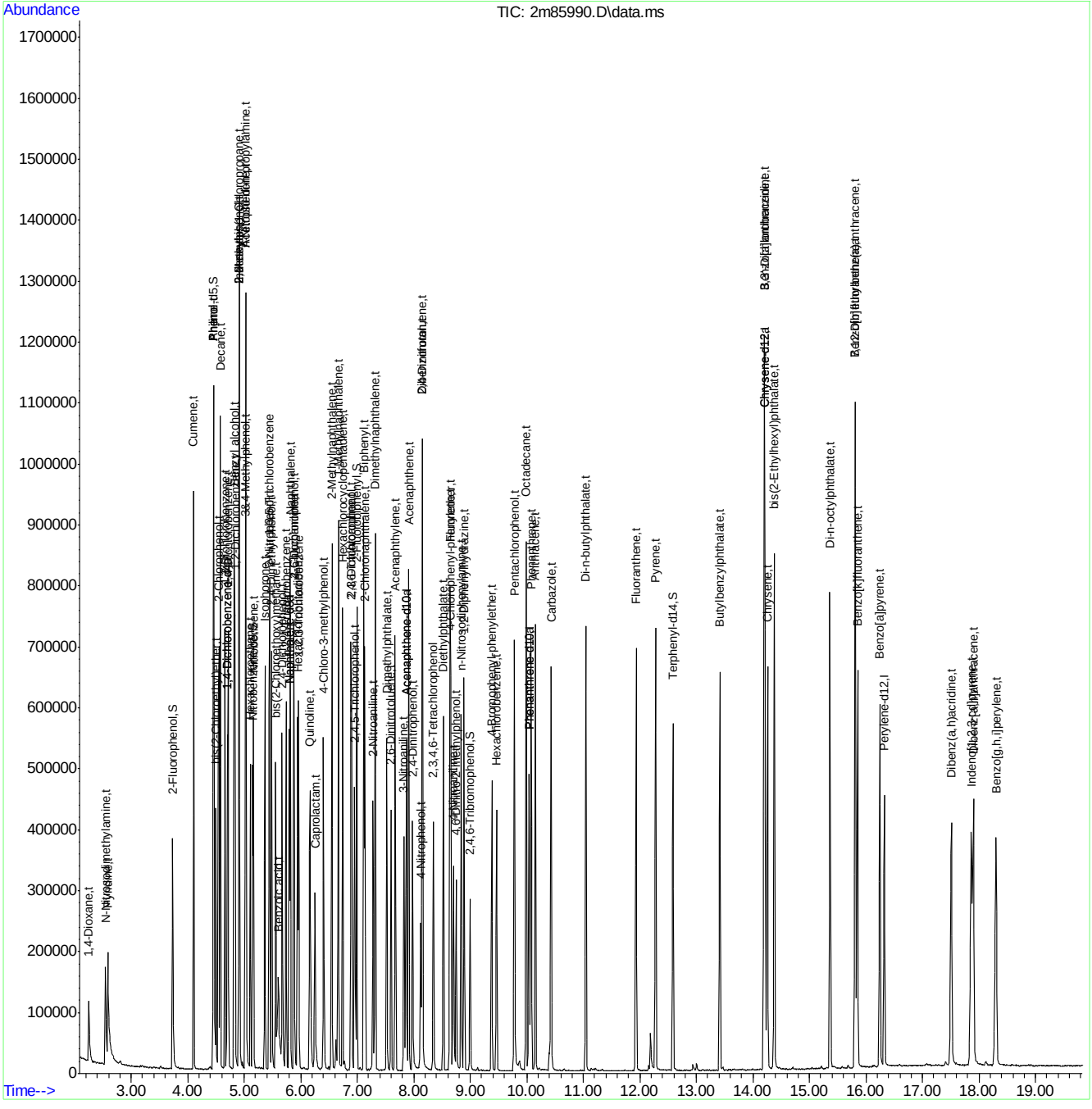
7

SGS ACCUTEST JC24978

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E2M3807\
Data File : 2m85990.D
Acq On : 31 Jul 2016 12:16 pm
Operator : kristis
Sample : cc3789-50
Misc : op95842,e2m3807,1000,,,1,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 31 13:00:30 2016
Quant Method : C:\MSDCHEM\1\METHODS\M2M3789.M
Quant Title : Semi Volatile GC/MS,rxi 5sil ms 30m .25mm .25um
QLast Update : Thu Jul 28 23:07:38 2016
Response via : Initial Calibration



SGS ACCUTEST JC24978

Manual Integration Approval Summary

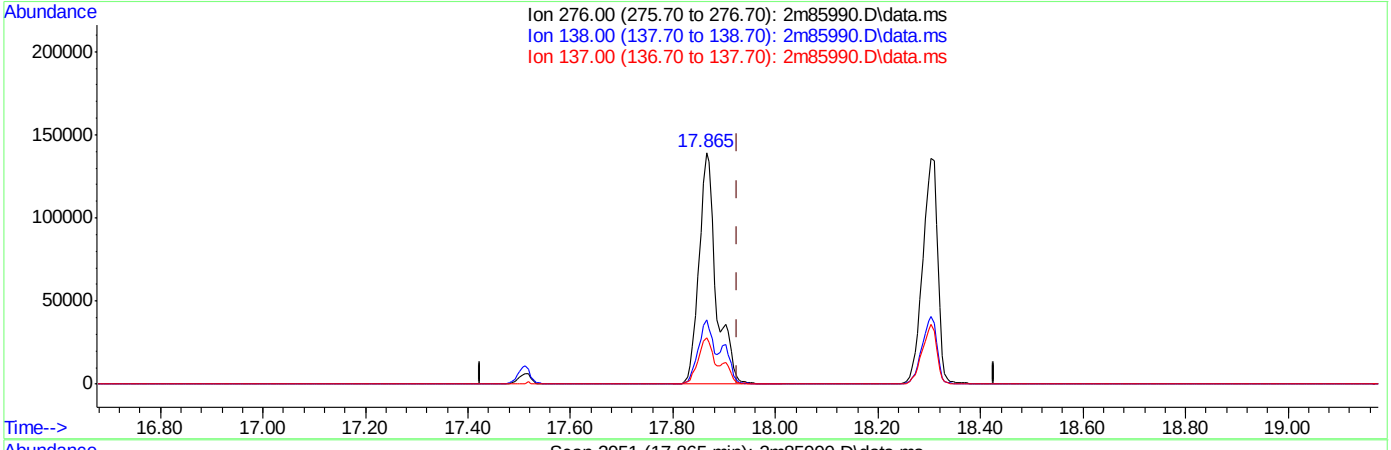
Sample Number:	E2M3807-CC3789	**Method:**	SW846 8270D
Lab FileID:	2M85990.D	**Analyst approved:**	07/31/16 16:00 Kristi Schollenberger
Injection Time:	07/31/16 12:16	**Supervisor approved:**	08/02/16 15:16 Nina Pandya

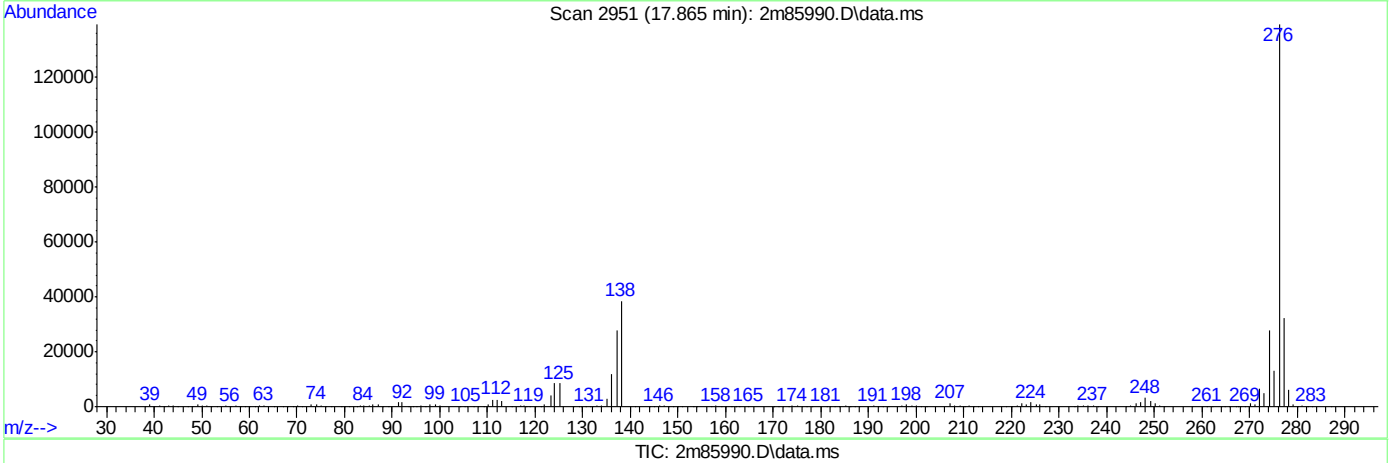
Parameter	CAS	Sig#	R.T. (min.)	Reason
Indeno(1,2,3-cd)pyrene	193-39-5		17.87	Overlapping peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E2M3807\
Data File : 2m85990.D
Acq On : 31 Jul 2016 12:16 pm
Operator : kristis
Sample : cc3789-50
Misc : op95842,e2m3807,1000,,,1,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 31 12:36:33 2016
Quant Method : C:\MSDCHEM\1\METHODS\M2M3789.M
Quant Title : Semi Volatile GC/MS,rxi 5sil ms 30m .25mm .25um
QLast Update : Thu Jul 28 23:07:38 2016
Response via : Initial Calibration





TIC: 2m85990.D\data.ms

(96) Indeno[1,2,3-cd]pyrene (t)

17.865min (-0.061) 64.34ppm

response 323519

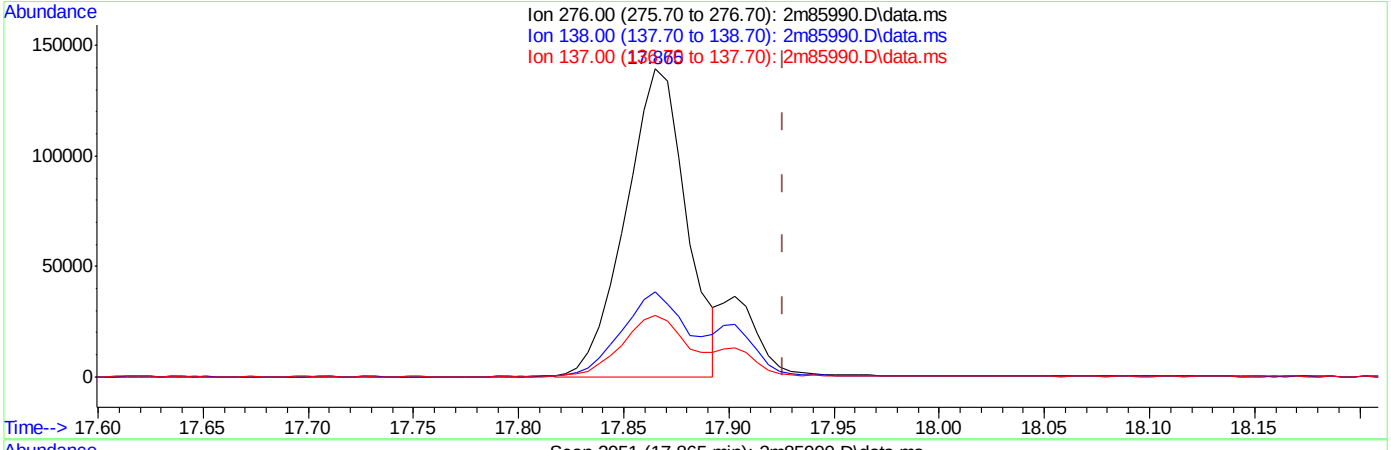
Ion	Exp%	Act%
276.00	100	100
138.00	25.70	27.63
137.00	17.70	19.86
0.00	0.00	0.00

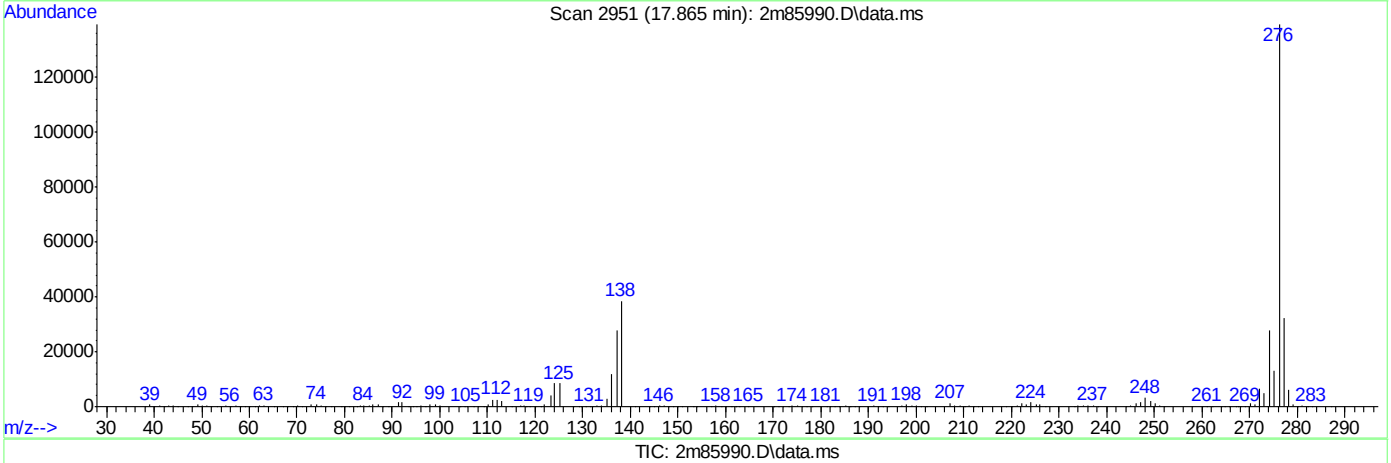
SGS ACCUTEST JC24978

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E2M3807\
Data File : 2m85990.D
Acq On : 31 Jul 2016 12:16 pm
Operator : kristis
Sample : cc3789-50
Misc : op95842,e2m3807,1000,,,1,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 31 12:36:33 2016
Quant Method : C:\MSDCHEM\1\METHODS\M2M3789.M
Quant Title : Semi Volatile GC/MS,rxi 5sil ms 30m .25mm .25um
QLast Update : Thu Jul 28 23:07:38 2016
Response via : Initial Calibration





TIC: 2m85990.D\data.ms

(96) Indeno[1,2,3-cd]pyrene (t)

17.865min (-0.061) 54.87ppm m

response 275908

Ion	Exp%	Act%
276.00	100	100
138.00	25.70	27.63
137.00	17.70	19.90
0.00	0.00	0.00

SGS ACCUTEST JC24978

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E2M3807\
Data File : 2m85991.D
Acq On : 31 Jul 2016 12:42 pm
Operator : kristis
Sample : cc3791-50
Misc : op95842,e2m3807,1000,,,1,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 31 13:02:47 2016
Quant Method : C:\MSDCHEM\1\METHODS\M2M3789.M
Quant Title : Semi Volatile GC/MS,rxi 5sil ms 30m .25mm .25um
QLast Update : Thu Jul 28 23:07:38 2016
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.702	152	66712	40.00	ppm	-0.02
24) Naphthalene-d8	5.793	136	261473	40.00	ppm	-0.02
47) Acenaphthene-d10	7.863	164	153116	40.00	ppm	-0.03
69) Phenanthrene-d10	10.035	188	247615	40.00	ppm	-0.03
83) Chrysene-d12	14.212	240	212833	40.00	ppm	-0.04
91) Perylene-d12	16.325	264	210638	40.00	ppm	-0.03
101) 1,4-Dichlorobenzene-d4a	4.702	152	66712	40.00	ppm	-0.02
103) Acenaphthene-d10a	7.863	164	153116	40.00	ppm	-0.03
105) Chrysene-d12a	14.212	240	212833	40.00	ppm	-0.04
107) Phenanthrene-d10a	10.035	188	247615	40.00	ppm	-0.03
109) Naphthalene-d8a	5.793	136	261473	40.00	ppm	-0.02

System Monitoring Compounds

5) 2-Fluorophenol	0.000	112	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
8) Phenol-d5	0.000	99	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
25) Nitrobenzene-d5	0.000	82	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
51) 2-Fluorobiphenyl	0.000	172	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
73) 2,4,6-Tribromophenol	0.000	330	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
85) Terphenyl-d14	0.000	244	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	

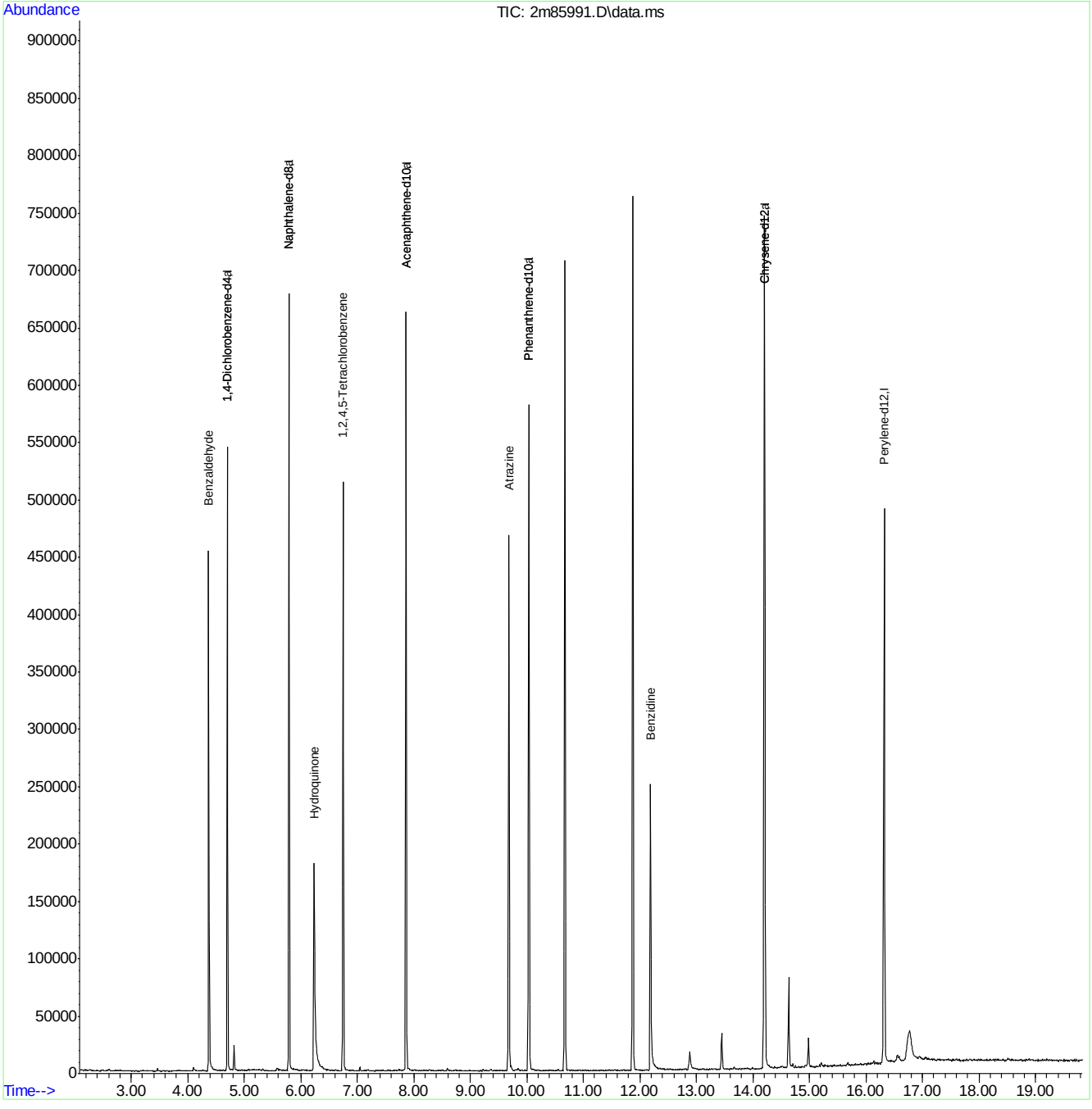
Target Compounds						Qvalue
102) Benzaldehyde	4.371	105	73676	44.84	ppm	97
104) 1,2,4,5-Tetrachloroben...	6.751	216	81115	49.40	ppm	99
106) Benzidine	12.190	184	126113	49.88	ppm	99
108) Atrazine	9.682	215	30087	56.20	ppm	95
110) Hydroquinone	6.237	110	110914	55.24	ppm	93

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E2M3807\
Data File : 2m85991.D
Acq On : 31 Jul 2016 12:42 pm
Operator : kristis
Sample : cc3791-50
Misc : op95842,e2m3807,1000,,,1,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 31 13:02:47 2016
Quant Method : C:\MSDCHEM\1\METHODS\M2M3789.M
Quant Title : Semi Volatile GC/MS,rxi 5sil ms 30m .25mm .25um
QLast Update : Thu Jul 28 23:07:38 2016
Response via : Initial Calibration



M2M3789.M Sun Jul 31 15:54:18 2016 Page: 2

Manual Integrations APPROVED (compounds with "m" flag)
Nina Pandya
08/01/16 16:43

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E2M3808\
Data File : 2m86015.D
Acq On : 1 Aug 2016 10:17 am
Operator : ashleyn
Sample : cc3789-25
Misc : op95939,e2m3808
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 01 14:23:01 2016
Quant Method : C:\MSDCHEM\1\METHODS\M2M3789.M
Quant Title : Semi Volatile GC/MS,rxi 5sil ms 30m .25mm .25um
QLast Update : Thu Jul 28 23:07:38 2016
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.697	152	55229	40.00	ppm	-0.02
24) Naphthalene-d8	5.788	136	225003	40.00	ppm	-0.03
47) Acenaphthene-d10	7.858	164	131673	40.00	ppm	-0.03
69) Phenanthrene-d10	10.030	188	208473	40.00	ppm	-0.04
83) Chrysene-d12	14.207	240	184589	40.00	ppm	-0.04
91) Perylene-d12	16.320	264	182218	40.00	ppm	-0.04
101) 1,4-Dichlorobenzene-d4a	4.697	152	55229	40.00	ppm	-0.02
103) Acenaphthene-d10a	7.858	164	131673	40.00	ppm	-0.03
105) Chrysene-d12a	14.207	240	184589	40.00	ppm	-0.04
107) Phenanthrene-d10a	10.030	188	208473	40.00	ppm	-0.04
109) Naphthalene-d8a	5.788	136	225003	40.00	ppm	-0.03
System Monitoring Compounds						
5) 2-Fluorophenol	3.729	112	49783	25.85	ppm	-0.02
Spiked Amount 50.000			Recovery = 51.70%			
8) Phenol-d5	4.440	99	64964	26.58	ppm	0.00
Spiked Amount 50.000			Recovery = 53.16%			
25) Nitrobenzene-d5	5.141	82	59317	28.83	ppm	-0.02
Spiked Amount 50.000			Recovery = 57.66%			
51) 2-Fluorobiphenyl	6.981	172	104944	26.21	ppm	-0.04
Spiked Amount 50.000			Recovery = 52.42%			
73) 2,4,6-Tribromophenol	8.992	330	13379	31.37	ppm	-0.04
Spiked Amount 50.000			Recovery = 62.74%			
85) Terphenyl-d14	12.581	244	93058	24.72	ppm	-0.05
Spiked Amount 50.000			Recovery = 49.44%			

Target Compounds							Qvalue
2) 1,4-Dioxane	2.242	88	22920	22.63	ppm		98
3) Pyridine	2.574	79	60214	24.50	ppm		89
4) N-Nitrosodimethylamine	2.542	74	34717	25.03	ppm		81
6) Indene	4.895	116	104010	28.90	ppm		98
7) Cumene	4.098	105	138464	27.52	ppm		100
9) Phenol	4.451	94	77496	26.69	ppm	#	46
10) Aniline	4.451	93	80353	23.05	ppm		51
11) bis(2-Chloroethyl)ether	4.494	93	56344	27.38	ppm		96
12) 2-Chlorophenol	4.547	128	57157	26.82	ppm		98
13) Decane	4.574	43	77138	28.74	ppm		96
14) 1,3-Dichlorobenzene	4.654	146	60029	27.01	ppm		100
15) 1,4-Dichlorobenzene	4.708	146	60008	27.00	ppm		100
16) Benzyl alcohol	4.809	108	39476	27.51	ppm		97
17) 1,2-Dichlorobenzene	4.831	146	56922	27.42	ppm		99
18) Acetophenone	5.013	105	80843	29.80	ppm		83
19) 2-Methylphenol	4.906	108	52700	28.38	ppm		98
20) 2,2'-oxybis(1-Chloropr...	4.906	45	92832	28.16	ppm		89
21) 3&4-Methylphenol	5.029	108	56682	29.20	ppm		97
22) n-Nitroso-di-n-propyla...	5.013	70	40861	29.88	ppm		96
23) Hexachloroethane	5.104	201	17692	27.93	ppm		92
26) Nitrobenzene	5.157	77	62579	28.32	ppm		100
27) Quinoline	6.146	129	114404	27.05	ppm		98
28) Isophorone	5.355	82	105465	27.25	ppm		96

SGS ACCUTEST JC24978

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E2M3808\
Data File : 2m86015.D
Acq On : 1 Aug 2016 10:17 am
Operator : ashleyn
Sample : cc3789-25
Misc : op95939,e2m3808
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 01 14:23:01 2016
Quant Method : C:\MSDCHEM\1\METHODS\M2M3789.M
Quant Title : Semi Volatile GC/MS,rxi 5sil ms 30m .25mm .25um
QLast Update : Thu Jul 28 23:07:38 2016
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
29) 2-Nitrophenol	5.435	139	31312	28.60	ppm		89
30) 2,4-Dimethylphenol	5.478	107	49731	25.01	ppm		100
31) Benzoic acid	5.574	105	41945	29.10	ppm		94
32) bis(2-Chloroethoxy)met...	5.547	93	64572	27.13	ppm		98
33) 2,4-Dichlorophenol	5.665	162	45277	28.09	ppm		97
34) 2,6-Dichlorophenol	5.874	162	44205	27.70	ppm		95
35) 1,3,5-Trichlorobenzene	5.446	180	47967	27.06	ppm		99
36) 1,2,4-Trichlorobenzene	5.735	180	43645	26.58	ppm		98
37) 1,2,3-Trichlorobenzene	5.954	180	44144	26.99	ppm		98
38) Naphthalene	5.810	128	162049	26.89	ppm		99
39) 4-Chloroaniline	5.863	127	69444	25.93	ppm		97
40) 2,3-Dichloroaniline	6.879	161	56472	29.06	ppm		97
41) Caprolactam	6.221	55	31278	30.12	ppm		95
42) Hexachlorobutadiene	5.938	225	21884	28.67	ppm		95
43) 4-Chloro-3-methylphenol	6.393	107	49633	28.49	ppm		99
44) 2-Methylnaphthalene	6.542	141	95965	27.68	ppm		98
45) 1-Methylnaphthalene	6.655	141	94895	27.39	ppm		95
46) Dimethylnaphthalene	7.307	156	97909	27.70	ppm		100
48) Hexachlorocyclopentadiene	6.735	237	42708	59.07	ppm		100
49) 2,4,6-Trichlorophenol	6.890	196	30190	28.65	ppm		98
50) 2,4,5-Trichlorophenol	6.943	196	31368	27.52	ppm		98
52) 2-Chloronaphthalene	7.125	162	93948	25.95	ppm		98
53) Biphenyl	7.104	154	133312	26.57	ppm		99
54) 2-Nitroaniline	7.264	65	35795	28.95	ppm		94
55) Dimethylphthalate	7.510	163	109637	27.57	ppm		99
56) Acenaphthylene	7.660	152	162031	26.89	ppm		99
57) 2,6-Dinitrotoluene	7.585	165	25052	30.23	ppm		94
58) 3-Nitroaniline	7.815	138	33012	27.99	ppm		92
59) Acenaphthene	7.901	153	98991	26.51	ppm		99
60) 2,4-Dinitrophenol	7.965	184	25602	56.10	ppm		79
61) 4-Nitrophenol	8.115	109	16737	35.46	ppm	#	76
62) Dibenzofuran	8.142	168	145011	26.78	ppm		92
63) 2,4-Dinitrotoluene	8.147	165	34432	30.97	ppm		97
64) 2,3,4,6-Tetrachlorophenol	8.339	232	22299	28.73	ppm		99
65) Diethylphthalate	8.511	149	113385	28.72	ppm		99
66) Fluorene	8.628	166	112168	27.33	ppm		100
67) 4-Chlorophenyl-phenyle...	8.650	204	48131	27.27	ppm		97
68) 4-Nitroaniline	8.687	138	33115	28.52	ppm		87
70) 4,6-Dinitro-2-methylph...	8.735	198	18591	27.54	ppm		97
71) n-Nitrosodiphenylamine	8.826	169	75593	26.37	ppm		97
72) 1,2-Diphenylhydrazine	8.880	77	126687	28.86	ppm		96
74) 4-Bromophenyl-phenylether	9.372	248	24935	27.04	ppm		96
75) Hexachlorobenzene	9.457	284	28000	27.56	ppm		97
76) Pentachlorophenol	9.773	266	34630	63.37	ppm		100
77) Phenanthrene	10.062	178	153702	26.32	ppm		99
78) Anthracene	10.142	178	155224	26.66	ppm		99
79) Carbazole	10.415	167	155121	26.55	ppm		98
80) Di-n-butylphthalate	11.041	149	192650	28.74	ppm		100
81) Fluoranthene	11.923	202	157033	27.82	ppm		97
82) Octadecane	9.981	57	89479	27.74	ppm		96

SGS ACCUTEST JC24978

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E2M3808\
Data File : 2m86015.D
Acq On : 1 Aug 2016 10:17 am
Operator : ashleyn
Sample : cc3789-25
Misc : op95939,e2m3808
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 01 14:23:01 2016
Quant Method : C:\MSDCHEM\1\METHODS\M2M3789.M
Quant Title : Semi Volatile GC/MS,rxi 5sil ms 30m .25mm .25um
QLast Update : Thu Jul 28 23:07:38 2016
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
84) Pyrene	12.271	202	162226	24.55 ppm	100
86) Butylbenzylphthalate	13.410	149	85423	26.83 ppm	91
87) Benzo[a]anthracene	14.191	228	140043	26.13 ppm	99
88) 3,3'-Dichlorobenzidine	14.196	252	52071	28.29 ppm	99
89) Chrysene	14.244	228	137062	24.82 ppm	99
90) bis(2-Ethylhexyl)phtha...	14.373	149	119693	26.35 ppm	96
92) Di-n-octylphthalate	15.357	149	199337	26.93 ppm	99
93) Benzo[b]fluoranthene	15.801	252	141768	26.01 ppm	100
94) Benzo[k]fluoranthene	15.838	252	137098	26.08 ppm	99
95) Benzo[a]pyrene	16.239	252	123390	25.48 ppm	100
96) Indeno[1,2,3-cd]pyrene	17.855	276	117350m	24.77 ppm	
97) Dibenz(a,h)acridine	17.502	279	112998	25.75 ppm	99
98) Dibenz[a,h]anthracene	17.887	278	126601	25.42 ppm	97
99) 7,12-Dimethylbenz(a)an...	15.801	256	64674	26.05 ppm	97
100) Benzo[g,h,i]perylene	18.288	276	127028	25.36 ppm	96

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

7.6.28

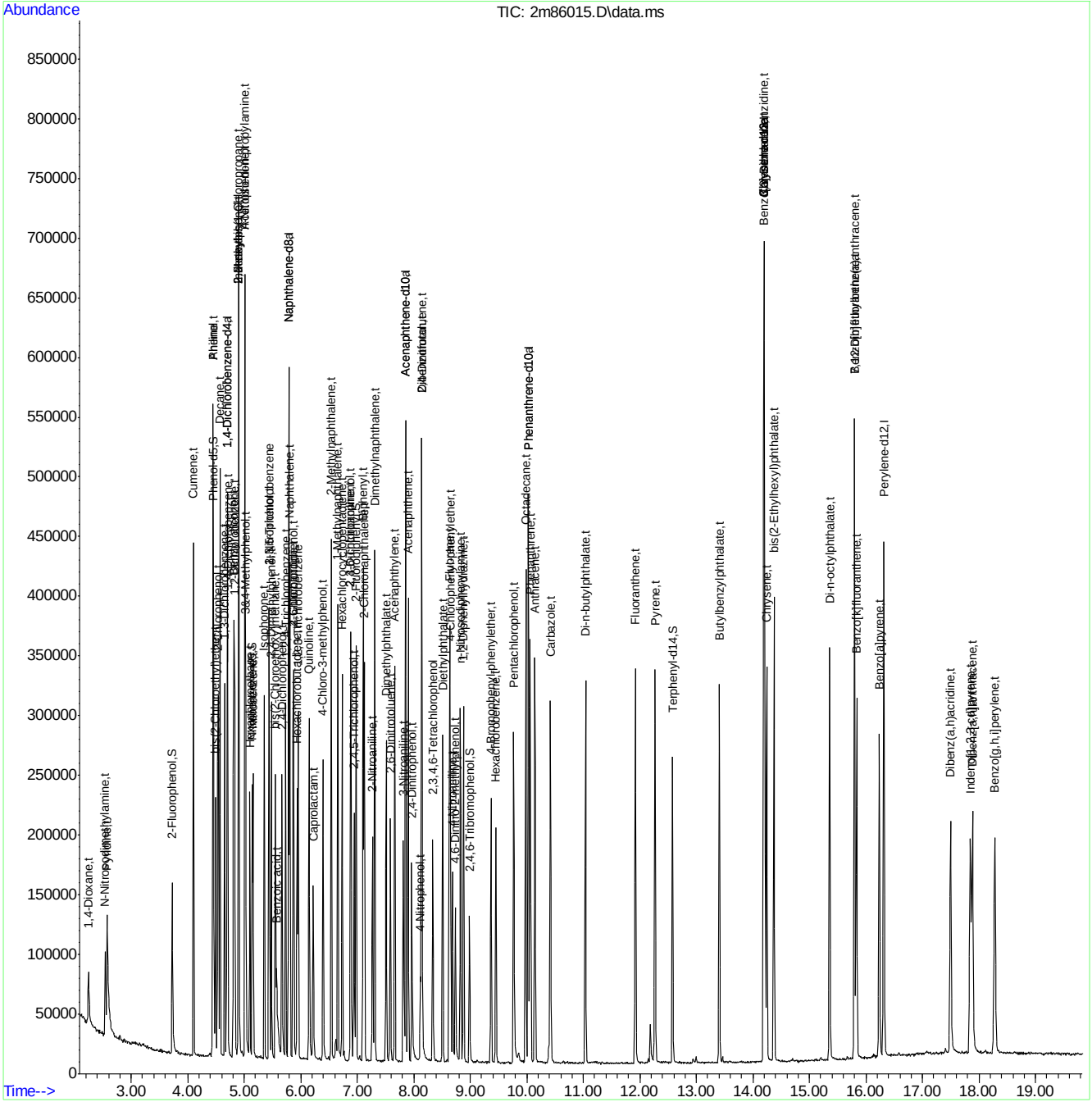
7

SGS ACCUTEST JC24978

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E2M3808\
Data File : 2m86015.D
Acq On : 1 Aug 2016 10:17 am
Operator : ashleyn
Sample : cc3789-25
Misc : op95939,e2m3808
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 01 14:23:01 2016
Quant Method : C:\MSDCHEM\1\METHODS\M2M3789.M
Quant Title : Semi Volatile GC/MS,rxi 5sil ms 30m .25mm .25um
QLast Update : Thu Jul 28 23:07:38 2016
Response via : Initial Calibration



SGS ACCUTEST JC24978

Manual Integration Approval Summary

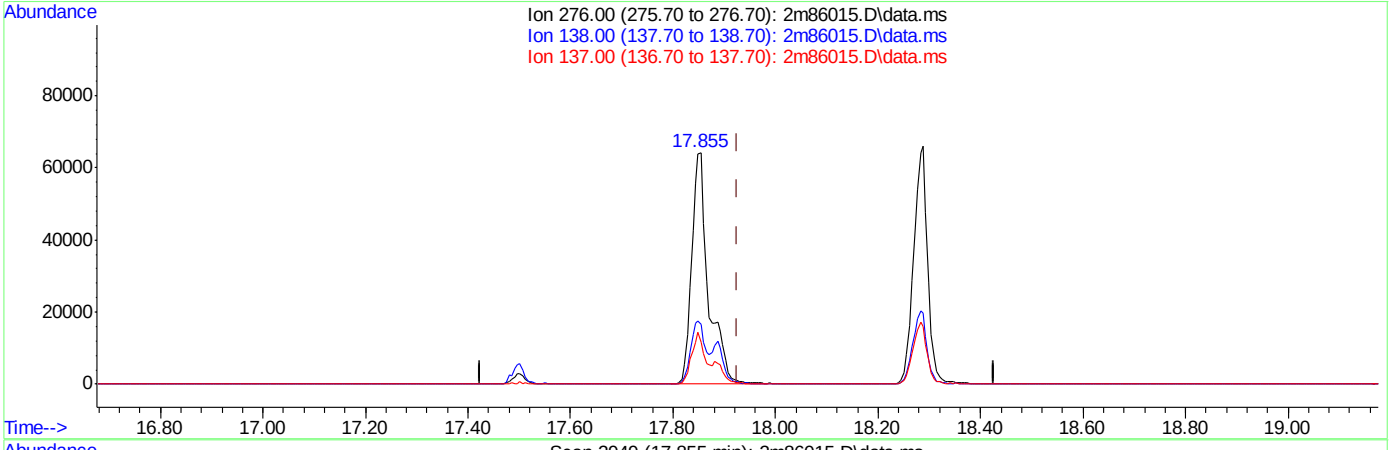
Sample Number:	E2M3808-CC3789	**Method:**	SW846 8270D
Lab FileID:	2M86015.D	**Analyst approved:**	08/01/16 14:25 Ashley Noble
Injection Time:	08/01/16 10:17	**Supervisor approved:**	08/01/16 16:43 Nina Pandya

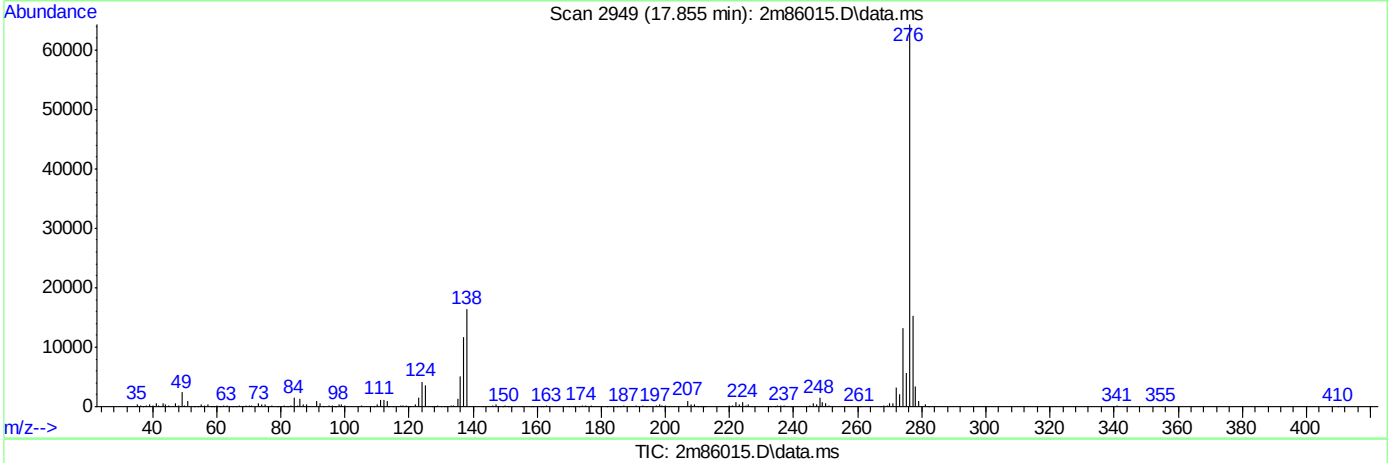
Parameter	CAS	Sig#	R.T. (min.)	Reason
Indeno(1,2,3-cd)pyrene	193-39-5		17.85	Split peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E2M3808\
Data File : 2m86015.D
Acq On : 1 Aug 2016 10:17 am
Operator : ashleyn
Sample : cc3789-25
Misc : op95939,e2m3808
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 01 10:37:46 2016
Quant Method : C:\MSDCHEM\1\METHODS\M2M3789.M
Quant Title : Semi Volatile GC/MS,rxi 5sil ms 30m .25mm .25um
QLast Update : Thu Jul 28 23:07:38 2016
Response via : Initial Calibration





TIC: 2m86015.D\data.ms

(96) Indeno[1,2,3-cd]pyrene (t)

17.855min (-0.071) 31.24ppm

response 148002

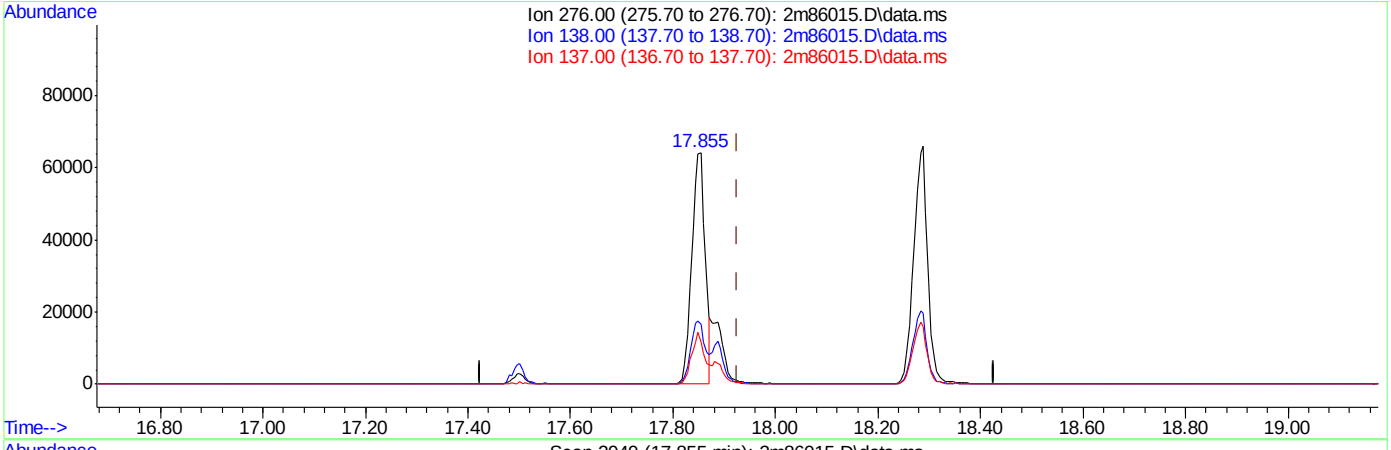
Ion	Exp%	Act%
276.00	100	100
138.00	25.70	25.57
137.00	17.70	18.01
0.00	0.00	0.00

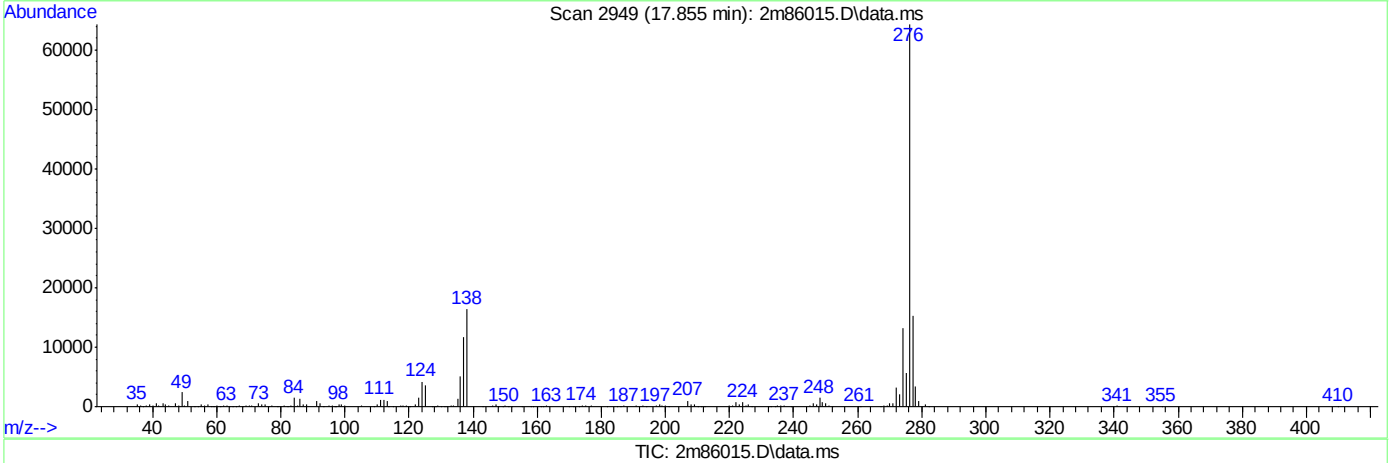
SGS ACCUTEST JC24978

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E2M3808\
Data File : 2m86015.D
Acq On : 1 Aug 2016 10:17 am
Operator : ashleyn
Sample : cc3789-25
Misc : op95939,e2m3808
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 01 10:37:46 2016
Quant Method : C:\MSDCHEM\1\METHODS\M2M3789.M
Quant Title : Semi Volatile GC/MS,rxi 5sil ms 30m .25mm .25um
QLast Update : Thu Jul 28 23:07:38 2016
Response via : Initial Calibration





TIC: 2m86015.D\data.ms

(96) Indeno[1,2,3-cd]pyrene (t)

17.855min (-0.071) 24.77ppm m

response 117350

Ion	Exp%	Act%
276.00	100	100
138.00	25.70	25.64
137.00	17.70	18.12
0.00	0.00	0.00

SGS ACCUTEST JC24978

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E2M3808\
Data File : 2m86016.D
Acq On : 1 Aug 2016 10:48 am
Operator : ashleyn
Sample : cc3791-25
Misc : op95939,e2m3808
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Aug 01 14:23:23 2016
Quant Method : C:\MSDCHEM\1\METHODS\M2M3789.M
Quant Title : Semi Volatile GC/MS,rxi 5sil ms 30m .25mm .25um
QLast Update : Thu Jul 28 23:07:38 2016
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.697	152	57985	40.00	ppm	-0.02
24) Naphthalene-d8	5.788	136	237555	40.00	ppm	-0.03
47) Acenaphthene-d10	7.858	164	143784	40.00	ppm	-0.03
69) Phenanthrene-d10	10.024	188	231714	40.00	ppm	-0.04
83) Chrysene-d12	14.201	240	202973	40.00	ppm	-0.05
91) Perylene-d12	16.319	264	198011	40.00	ppm	-0.04
101) 1,4-Dichlorobenzene-d4a	4.697	152	57985	40.00	ppm	-0.02
103) Acenaphthene-d10a	7.858	164	143784	40.00	ppm	-0.03
105) Chrysene-d12a	14.201	240	202973	40.00	ppm	-0.05
107) Phenanthrene-d10a	10.024	188	231714	40.00	ppm	-0.04
109) Naphthalene-d8a	5.788	136	237555	40.00	ppm	-0.03

System Monitoring Compounds

5) 2-Fluorophenol	0.000	112	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
8) Phenol-d5	0.000	99	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
25) Nitrobenzene-d5	0.000	82	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
51) 2-Fluorobiphenyl	0.000	172	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
73) 2,4,6-Tribromophenol	0.000	330	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
85) Terphenyl-d14	0.000	244	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	

Target Compounds						Qvalue
102) Benzaldehyde	4.371	105	38805	27.17	ppm	97
104) 1,2,4,5-Tetrachloroben...	6.740	216	36410	23.61	ppm	100
106) Benzidine	12.180	184	74903	31.06	ppm	99
108) Atrazine	9.666	215	13900	27.75	ppm	94
110) Hydroquinone	6.227	110	53174	29.15	ppm	96

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

7.6.29

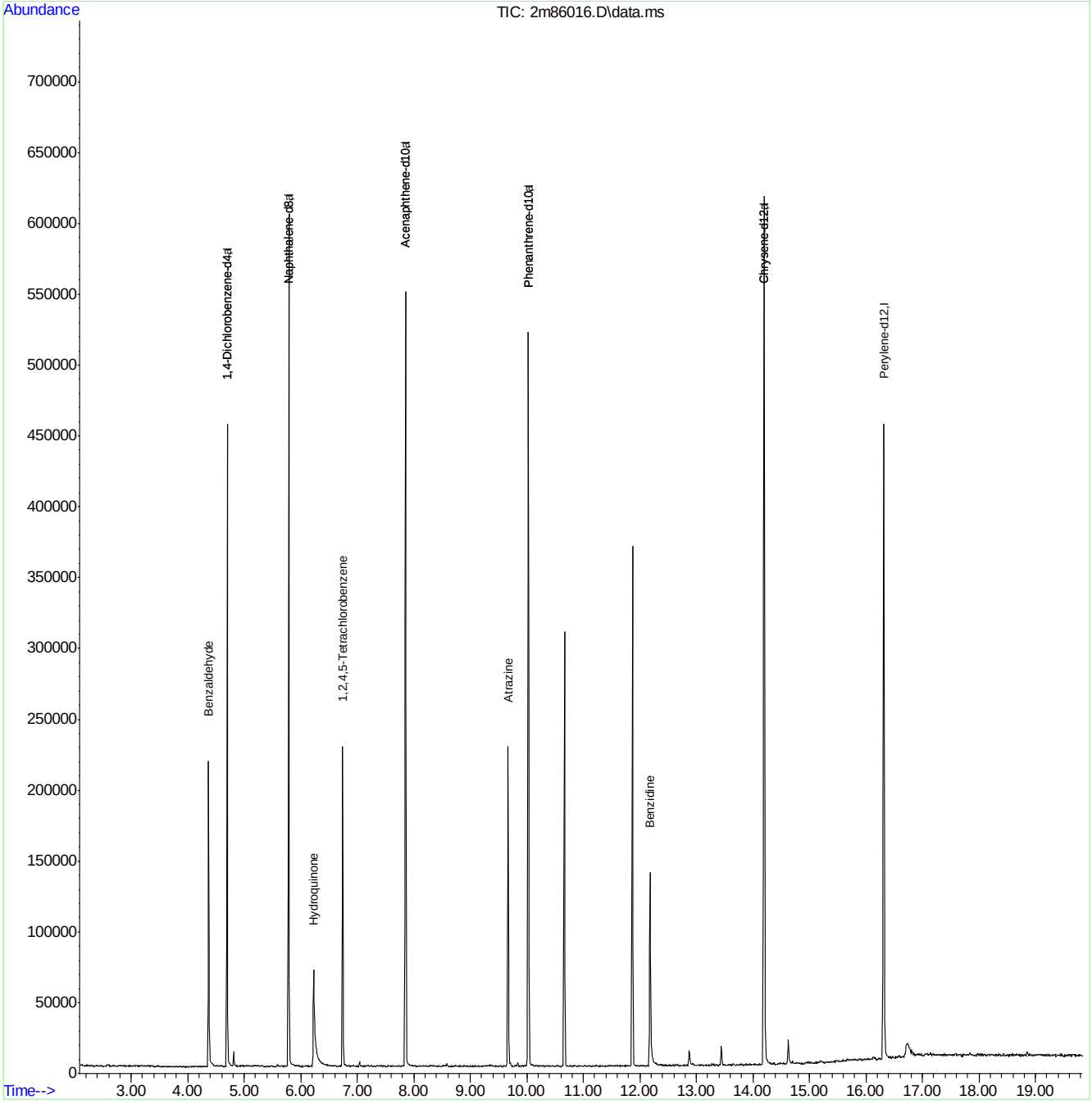
7

SGS ACCUTEST JC24978

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E2M3808\
Data File : 2m86016.D
Acq On : 1 Aug 2016 10:48 am
Operator : ashleyn
Sample : cc3791-25
Misc : op95939,e2m3808
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Aug 01 14:23:23 2016
Quant Method : C:\MSDCHEM\1\METHODS\M2M3789.M
Quant Title : Semi Volatile GC/MS,rxi 5sil ms 30m .25mm .25um
QLast Update : Thu Jul 28 23:07:38 2016
Response via : Initial Calibration



M2M3789.M Mon Aug 01 14:23:35 2016 Page: 2

SGS ACCUTEST JC24978

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2975\
Data File : 3m62950.D
Acq On : 14 Jul 2016 10:23 am
Operator : ashleyd
Sample : ic2975-0.2
Misc : op95160a,e3m2975
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 14 15:26:29 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2975SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu Jul 14 15:26:25 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	10.282	150	274664	4.00	ppm	0.00
14) Fluorene-d10	13.275	176	443421	4.00	ppm	0.00
21) Fluoranthene-d10	17.479	212	770447	4.00	ppm	0.00
31) Benzo(a)pyrene-d12	22.071	264	658595	4.00	ppm	0.00
System Monitoring Compounds						
3) 2-Fluorophenol	4.307	112	168357	4.00	ppm	0.00
Spiked Amount 50.000			Recovery	=	8.00%	
4) Phenol-d5	5.891	99	252876	4.00	ppm	0.00
Spiked Amount 50.000			Recovery	=	8.00%	
7) Nitrobenzene-d5	7.410	82	243228	4.00	ppm	0.00
Spiked Amount 50.000			Recovery	=	8.00%	
15) 2-Fluorobiphenyl	10.958	172	558804	4.00	ppm	0.00
Spiked Amount 50.000			Recovery	=	8.00%	
20) 2,4,6-Tribromophenol	13.822	330	77291	4.00	ppm	0.00
Spiked Amount 50.000			Recovery	=	8.00%	
28) Terphenyl-d14	18.298	244	505225	4.00	ppm	0.00
Spiked Amount 50.000			Recovery	=	8.00%	
Target Compounds						Qvalue
2) 1,4-dioxane	2.081	88	3490	0.20	ppm	100
5) Phenol	5.915	94	65979	1.00	ppm	100
6) bis(2-Chloroethyl)ether	5.988	93	10011	0.20	ppm	100
8) Nitrobenzene	7.448	77	12801	0.20	ppm	100
9) Naphthalene	8.804	128	35278	0.20	ppm	100
10) Hexachlorobutadiene	9.105	225	6059	0.20	ppm	100
11) 2-Methylnaphthalene	10.179	141	18202	0.20	ppm	100
12) 1-Methylnaphthalene	10.364	141	18612	0.20	ppm	100
13) Hexachlorocyclopentadiene	10.528	237	8915	0.40	ppm	100
16) Acenaphthylene	11.931	152	32118	0.20	ppm	100
17) Acenaphthene	12.287	153	21647	0.20	ppm	100
18) 4,6-dinitro-2-methylph...	13.502	198	10109	1.00	ppm	100
19) Fluorene	13.313	166	23540	0.20	ppm	100
22) Hexachlorobenzene	14.434	284	8608	0.20	ppm	100
23) Pentachlorophenol	14.867	266	15705	1.00	ppm	100
24) Phenanthrene	15.222	178	35006	0.20	ppm	100
25) Anthracene	15.315	178	30805	0.20	ppm	100
26) Fluoranthene	17.510	202	43186	0.20	ppm	100
27) Pyrene	17.896	202	41279	0.20	ppm	100
29) Benzo[a]anthracene	19.998	228	36051	0.20	ppm	100
30) Chrysene	20.044	228	37086	0.20	ppm	100
32) Benzo[b]fluoranthene	21.657	252	44363	0.20	ppm	100
33) Benzo[k]fluoranthene	21.694	252	39275	0.20	ppm	100
34) Benzo[a]pyrene	22.108	252	39842	0.20	ppm	100
35) Indeno[1,2,3-cd]pyrene	23.557	276	40948	0.20	ppm	100
36) Dibenz[a,h]anthracene	23.594	278	33518	0.20	ppm	100
37) Benzo[g,h,i]perylene	23.895	276	37590	0.20	ppm	100

SGS ACCUTEST JC24978

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2975\
Data File : 3m62950.D
Acq On : 14 Jul 2016 10:23 am
Operator : ashleyd
Sample : ic2975-0.2
Misc : op95160a,e3m2975
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 14 15:26:29 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2975SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu Jul 14 15:26:25 2016
Response via : Initial Calibration

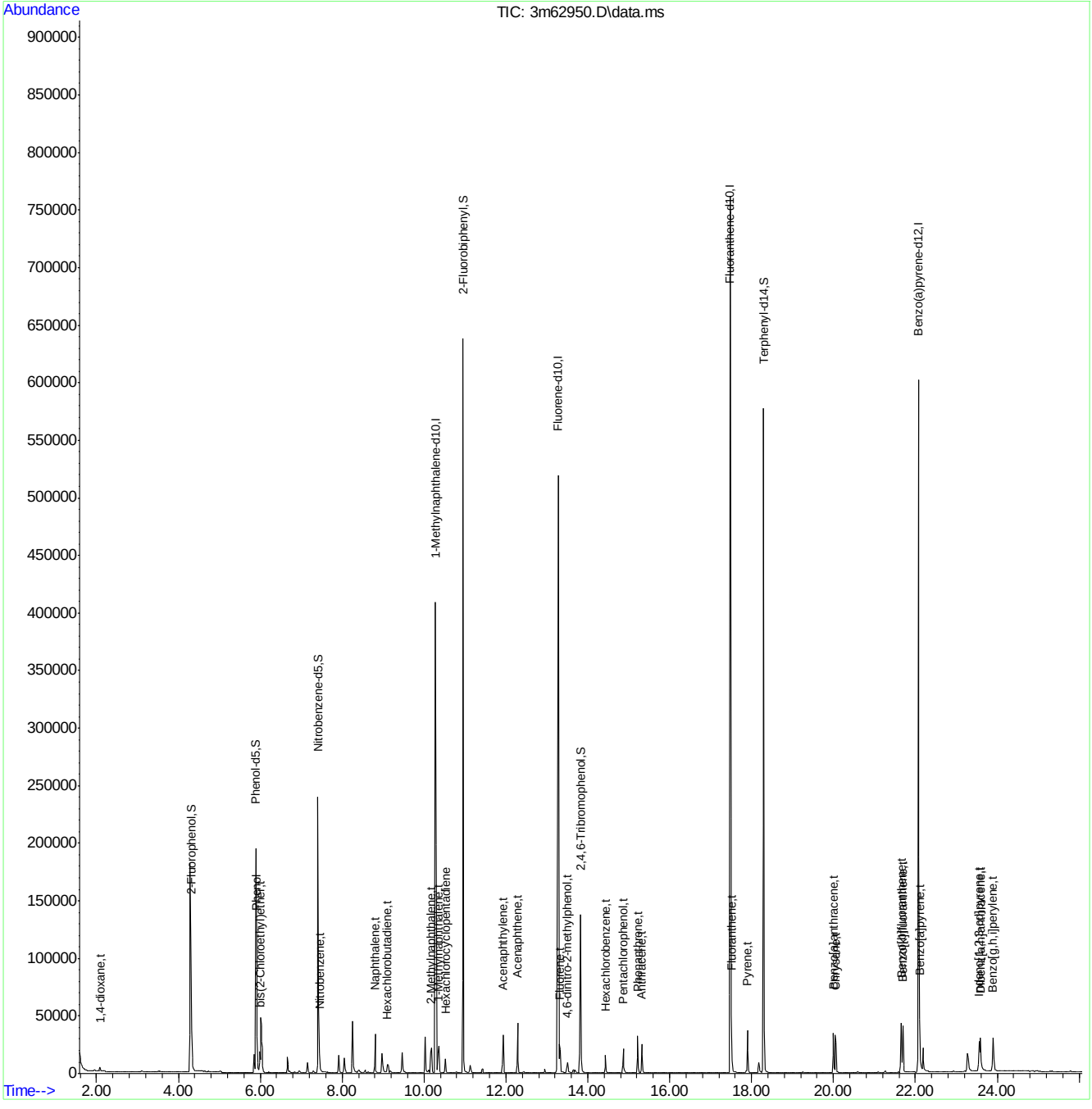
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2975\
Data File : 3m62950.D
Acq On : 14 Jul 2016 10:23 am
Operator : ashleyd
Sample : ic2975-0.2
Misc : op95160a,e3m2975
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 14 15:26:29 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2975SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu Jul 14 15:26:25 2016
Response via : Initial Calibration



M3M2975SIM.M Thu Jul 14 15:27:01 2016 RPT1 Page: 3

SGS ACCUTEST JC24978

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2975\
Data File : 3m62951.D
Acq On : 14 Jul 2016 10:55 am
Operator : ashleyd
Sample : ic2975-0.1
Misc : op95160a,e3m2975
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 14 15:27:15 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2975SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu Jul 14 15:27:05 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1-Methylnaphthalene-d10	10.282	150	307580	4.00	ppm		0.00
14) Fluorene-d10	13.275	176	486308	4.00	ppm		0.00
21) Fluoranthene-d10	17.479	212	849737	4.00	ppm		0.00
31) Benzo(a)pyrene-d12	22.070	264	762984	4.00	ppm		0.00
System Monitoring Compounds							
3) 2-Fluorophenol	4.307	112	81172	1.72	ppm		0.00
Spiked Amount 50.000			Recovery	=	3.44%		
4) Phenol-d5	5.903	99	120628	1.70	ppm		0.01
Spiked Amount 50.000			Recovery	=	3.40%		
7) Nitrobenzene-d5	7.410	82	113912	1.67	ppm		0.00
Spiked Amount 50.000			Recovery	=	3.34%		
15) 2-Fluorobiphenyl	10.958	172	277958	1.81	ppm		0.00
Spiked Amount 50.000			Recovery	=	3.62%		
20) 2,4,6-Tribromophenol	13.822	330	34684	1.64	ppm		0.00
Spiked Amount 50.000			Recovery	=	3.28%		
28) Terphenyl-d14	18.298	244	243933	1.75	ppm		0.00
Spiked Amount 50.000			Recovery	=	3.50%		
Target Compounds							Qvalue
2) 1,4-dioxane	2.097	88	1717	0.09	ppm		75
5) Phenol	5.915	94	32525	0.44	ppm	#	78
6) bis(2-Chloroethyl)ether	5.988	93	4944	0.09	ppm		74
8) Nitrobenzene	7.448	77	6217	0.09	ppm		89
9) Naphthalene	8.803	128	17470	0.09	ppm		98
10) Hexachlorobutadiene	9.123	225	3112	0.09	ppm	#	59
11) 2-Methylnaphthalene	10.179	141	8271	0.08	ppm		92
12) 1-Methylnaphthalene	10.364	141	9466	0.09	ppm		97
13) Hexachlorocyclopentadiene	10.528	237	2941	0.12	ppm		99
16) Acenaphthylene	11.931	152	15281	0.09	ppm		99
17) Acenaphthene	12.287	153	10239	0.09	ppm		99
18) 4,6-dinitro-2-methylph...	13.501	198	3012	0.27	ppm	#	68
19) Fluorene	13.313	166	11553	0.09	ppm		98
22) Hexachlorobenzene	14.434	284	4350	0.09	ppm		98
23) Pentachlorophenol	14.867	266	3824	0.22	ppm		92
24) Phenanthrene	15.222	178	16617	0.09	ppm		99
25) Anthracene	15.315	178	14062	0.08	ppm		99
26) Fluoranthene	17.510	202	21581	0.09	ppm		99
27) Pyrene	17.896	202	19367	0.09	ppm		99
29) Benzo[a]anthracene	19.997	228	15815	0.08	ppm		100
30) Chrysene	20.044	228	16857	0.08	ppm		98
32) Benzo[b]fluoranthene	21.657	252	21246	0.08	ppm		97
33) Benzo[k]fluoranthene	21.694	252	17962	0.08	ppm		99
34) Benzo[a]pyrene	22.108	252	20682	0.09	ppm		98
35) Indeno[1,2,3-cd]pyrene	23.556	276	19077	0.08	ppm		99
36) Dibenz[a,h]anthracene	23.594	278	15514	0.08	ppm		99
37) Benzo[g,h,i]perylene	23.895	276	18899	0.09	ppm		100

SGS ACCUTEST JC24978

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2975\
Data File : 3m62951.D
Acq On : 14 Jul 2016 10:55 am
Operator : ashleyd
Sample : ic2975-0.1
Misc : op95160a,e3m2975
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 14 15:27:15 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2975SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu Jul 14 15:27:05 2016
Response via : Initial Calibration

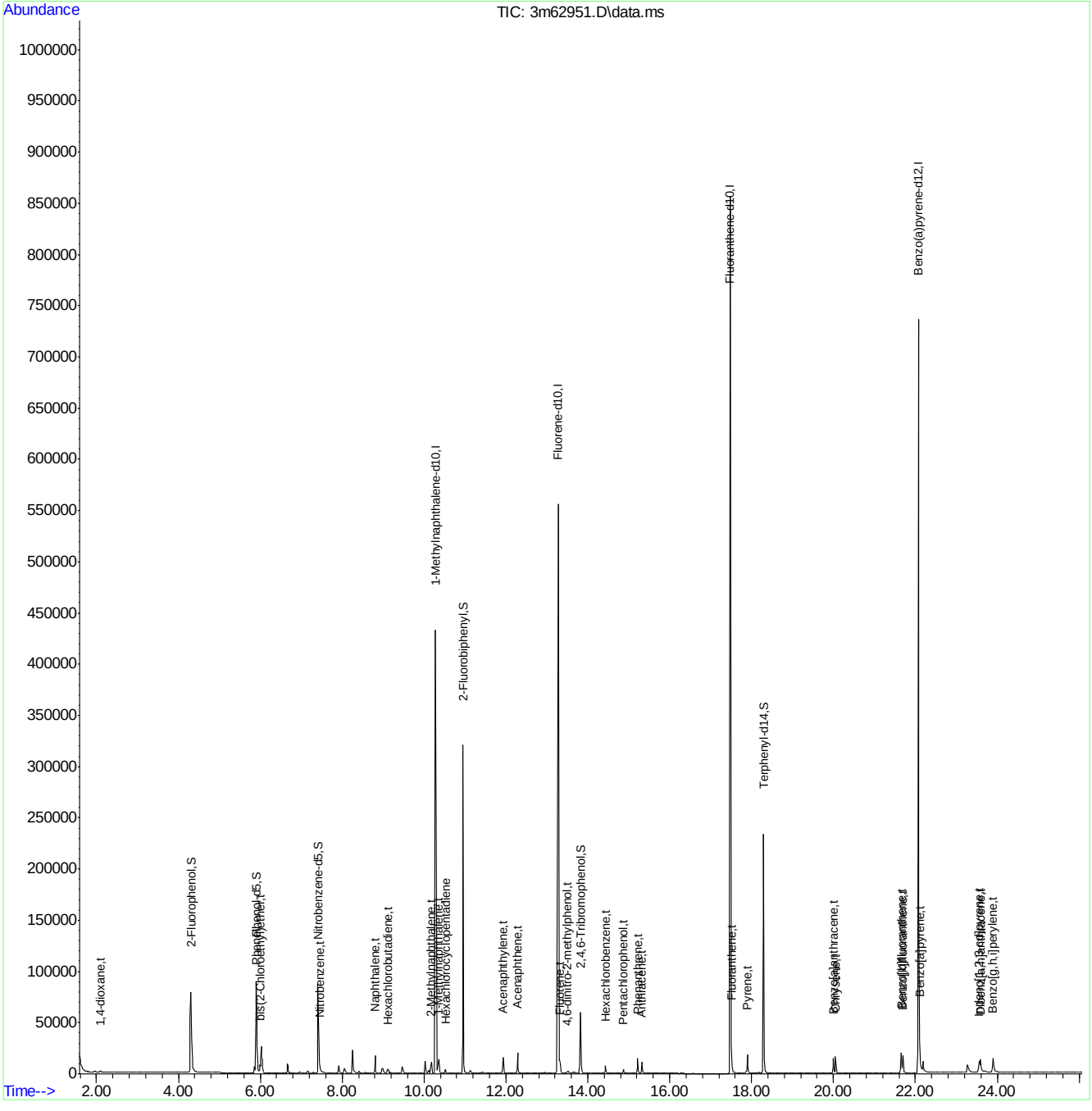
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2975\
Data File : 3m62951.D
Acq On : 14 Jul 2016 10:55 am
Operator : ashleyd
Sample : ic2975-0.1
Misc : op95160a,e3m2975
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 14 15:27:15 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2975SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu Jul 14 15:27:05 2016
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2975\
Data File : 3m62952.D
Acq On : 14 Jul 2016 11:28 am
Operator : ashleyd
Sample : ic2975-0.05
Misc : op95160a,e3m2975
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jul 14 15:27:39 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2975SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu Jul 14 15:27:34 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1-Methylnaphthalene-d10	10.281	150	364800	4.00	ppm		0.00
14) Fluorene-d10	13.275	176	586816	4.00	ppm		0.00
21) Fluoranthene-d10	17.479	212	1040150	4.00	ppm		0.00
31) Benzo(a)pyrene-d12	22.070	264	912640	4.00	ppm		0.00
System Monitoring Compounds							
3) 2-Fluorophenol	4.306	112	48304	0.93	ppm		0.00
Spiked Amount 50.000			Recovery	=	1.86%		
4) Phenol-d5	5.903	99	70547	0.91	ppm		0.00
Spiked Amount 50.000			Recovery	=	1.82%		
7) Nitrobenzene-d5	7.410	82	62689	0.85	ppm		0.00
Spiked Amount 50.000			Recovery	=	1.70%		
15) 2-Fluorobiphenyl	10.958	172	171779	0.97	ppm		0.00
Spiked Amount 50.000			Recovery	=	1.94%		
20) 2,4,6-Tribromophenol	13.822	330	19313	0.76	ppm		0.00
Spiked Amount 50.000			Recovery	=	1.52%		
28) Terphenyl-d14	18.298	244	142787	0.89	ppm		0.00
Spiked Amount 50.000			Recovery	=	1.78%		
Target Compounds							Qvalue
2) 1,4-dioxane	2.097	88	1052	0.05	ppm		96
5) Phenol	5.915	94	18865	0.23	ppm	#	89
6) bis(2-Chloroethyl)ether	6.000	93	2872	0.05	ppm		51
8) Nitrobenzene	7.448	77	3299	0.04	ppm		95
9) Naphthalene	8.803	128	10390	0.05	ppm		99
10) Hexachlorobutadiene	9.123	225	1864	0.05	ppm		100
11) 2-Methylnaphthalene	10.179	141	6008	0.05	ppm		99
12) 1-Methylnaphthalene	10.364	141	5959	0.05	ppm		98
13) Hexachlorocyclopentadiene	10.528	237	1290	0.05	ppm		97
16) Acenaphthylene	11.931	152	9187	0.05	ppm		99
17) Acenaphthene	12.286	153	6220	0.05	ppm		100
18) 4,6-dinitro-2-methylph...	13.501	198	2051	0.20	ppm	#	80
19) Fluorene	13.313	166	7041	0.05	ppm		100
22) Hexachlorobenzene	14.434	284	2649	0.05	ppm		99
23) Pentachlorophenol	14.867	266	2622	0.17	ppm		97
24) Phenanthrene	15.222	178	9959	0.05	ppm		99
25) Anthracene	15.315	178	8858	0.05	ppm		99
26) Fluoranthene	17.510	202	14136	0.05	ppm		99
27) Pyrene	17.896	202	11496	0.04	ppm		99
29) Benzo[a]anthracene	19.997	228	8956	0.04	ppm		99
30) Chrysene	20.044	228	11074	0.05	ppm		98
32) Benzo[b]fluoranthene	21.657	252	11950	0.04	ppm		99
33) Benzo[k]fluoranthene	21.694	252	10807	0.04	ppm		99
34) Benzo[a]pyrene	22.108	252	14204	0.05	ppm		98
35) Indeno[1,2,3-cd]pyrene	23.556	276	10836	0.04	ppm		99
36) Dibenz[a,h]anthracene	23.594	278	8934	0.04	ppm		87
37) Benzo[g,h,i]perylene	23.895	276	10723	0.04	ppm		99

SGS ACCUTEST JC24978

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2975\
Data File : 3m62952.D
Acq On : 14 Jul 2016 11:28 am
Operator : ashleyd
Sample : ic2975-0.05
Misc : op95160a,e3m2975
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jul 14 15:27:39 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2975SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu Jul 14 15:27:34 2016
Response via : Initial Calibration

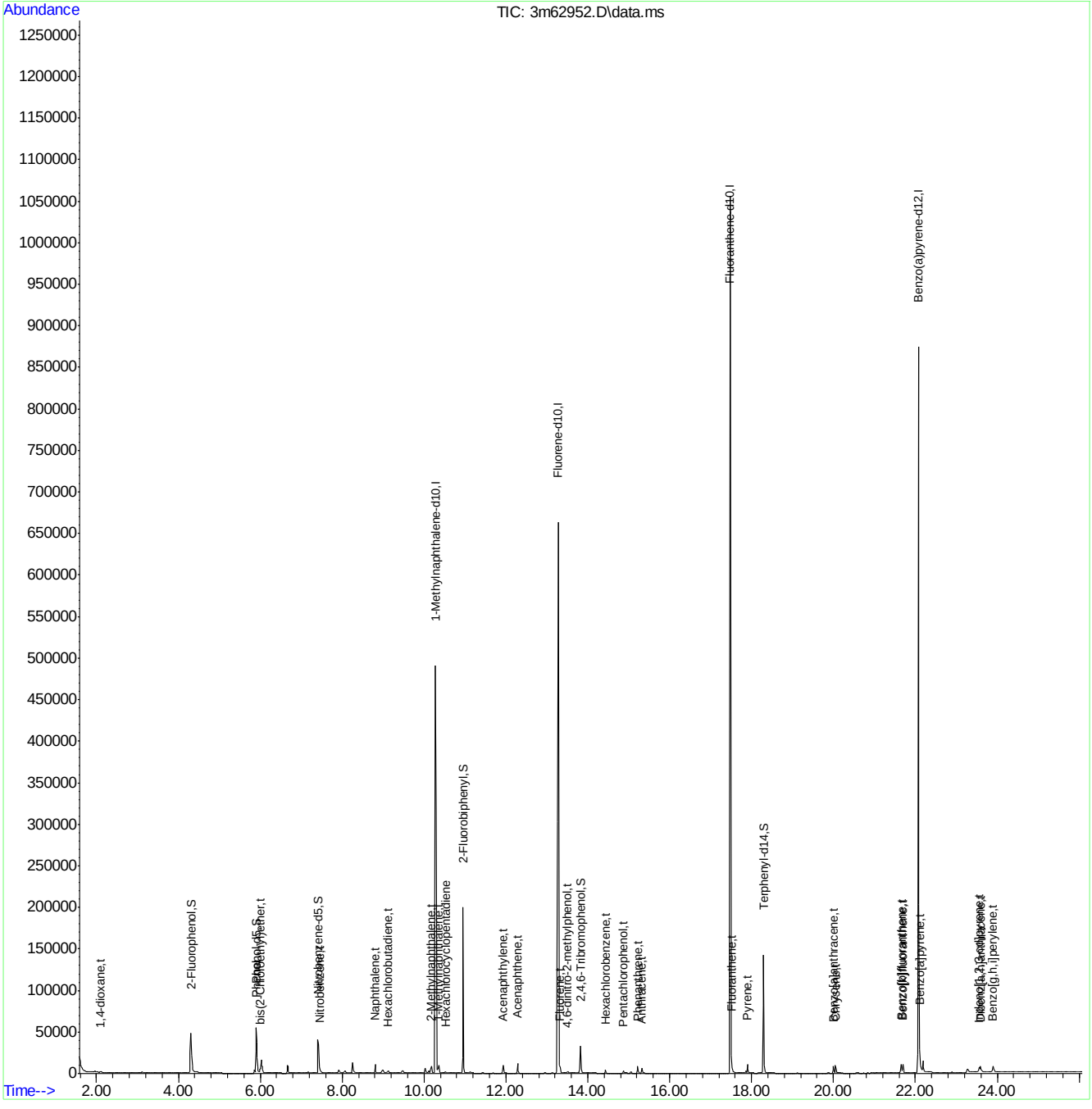
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2975\
Data File : 3m62952.D
Acq On : 14 Jul 2016 11:28 am
Operator : ashleyd
Sample : ic2975-0.05
Misc : op95160a,e3m2975
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jul 14 15:27:39 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2975SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu Jul 14 15:27:34 2016
Response via : Initial Calibration



SGS ACCUTEST JC24978

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2975\
Data File : 3m62953.D
Acq On : 14 Jul 2016 12:01 pm
Operator : ashleyd
Sample : ic2975-0.02
Misc : op95160a,e3m2975
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jul 14 15:28:21 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2975SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu Jul 14 15:28:02 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	10.282	150	291842	4.00	ppm	0.00
14) Fluorene-d10	13.275	176	473899	4.00	ppm	0.00
21) Fluoranthene-d10	17.479	212	805807	4.00	ppm	0.00
31) Benzo(a)pyrene-d12	22.071	264	720786	4.00	ppm	0.00
System Monitoring Compounds						
3) 2-Fluorophenol	4.307	112	14299	0.35	ppm	0.00
Spiked Amount 50.000			Recovery	=	0.70%	
4) Phenol-d5	5.903	99	20010	0.33	ppm	0.00
Spiked Amount 50.000			Recovery	=	0.66%	
7) Nitrobenzene-d5	7.429	82	17337	0.31	ppm	0.02
Spiked Amount 50.000			Recovery	=	0.62%	
15) 2-Fluorobiphenyl	10.958	172	53471	0.38	ppm	0.00
Spiked Amount 50.000			Recovery	=	0.76%	
20) 2,4,6-Tribromophenol	13.822	330	5149	0.25	ppm	0.00
Spiked Amount 50.000			Recovery	=	0.50%	
28) Terphenyl-d14	18.298	244	43176	0.35	ppm	0.00
Spiked Amount 50.000			Recovery	=	0.70%	
Target Compounds						Qvalue
2) 1,4-dioxane	2.097	88	320	0.02	ppm	98
5) Phenol	5.928	94	5591	0.09	ppm #	86
6) bis(2-Chloroethyl)ether	6.000	93	825	0.02	ppm	88
8) Nitrobenzene	7.448	77	931	0.02	ppm	91
9) Naphthalene	8.803	128	3353	0.02	ppm	99
10) Hexachlorobutadiene	9.124	225	596	0.02	ppm	95
11) 2-Methylnaphthalene	10.179	141	2901	0.03	ppm	97
12) 1-Methylnaphthalene	10.364	141	1975	0.02	ppm	94
13) Hexachlorocyclopentadiene	10.528	237	153	0.01	ppm	89
16) Acenaphthylene	11.931	152	2827	0.02	ppm	99
17) Acenaphthene	12.287	153	1933	0.02	ppm	96
18) 4,6-dinitro-2-methylph...	13.520	198	779	0.09	ppm	93
19) Fluorene	13.332	166	2272	0.02	ppm	73
22) Hexachlorobenzene	14.434	284	859	0.02	ppm	99
23) Pentachlorophenol	14.882	266	1098	0.10	ppm	87
24) Phenanthrene	15.222	178	3123	0.02	ppm	98
25) Anthracene	15.331	178	2803	0.02	ppm	90
26) Fluoranthene	17.510	202	4857	0.02	ppm	98
27) Pyrene	17.896	202	3541	0.02	ppm	99
29) Benzo[a]anthracene	19.997	228	2587	0.02	ppm	99
30) Chrysene	20.044	228	3492	0.02	ppm	99
32) Benzo[b]fluoranthene	21.657	252	3586	0.02	ppm	97
33) Benzo[k]fluoranthene	21.694	252	3496	0.02	ppm	97
35) Indeno[1,2,3-cd]pyrene	23.557	276	3456	0.02	ppm	98
36) Dibenz[a,h]anthracene	23.594	278	2772	0.02	ppm	97
37) Benzo[g,h,i]perylene	23.895	276	3398	0.02	ppm	100

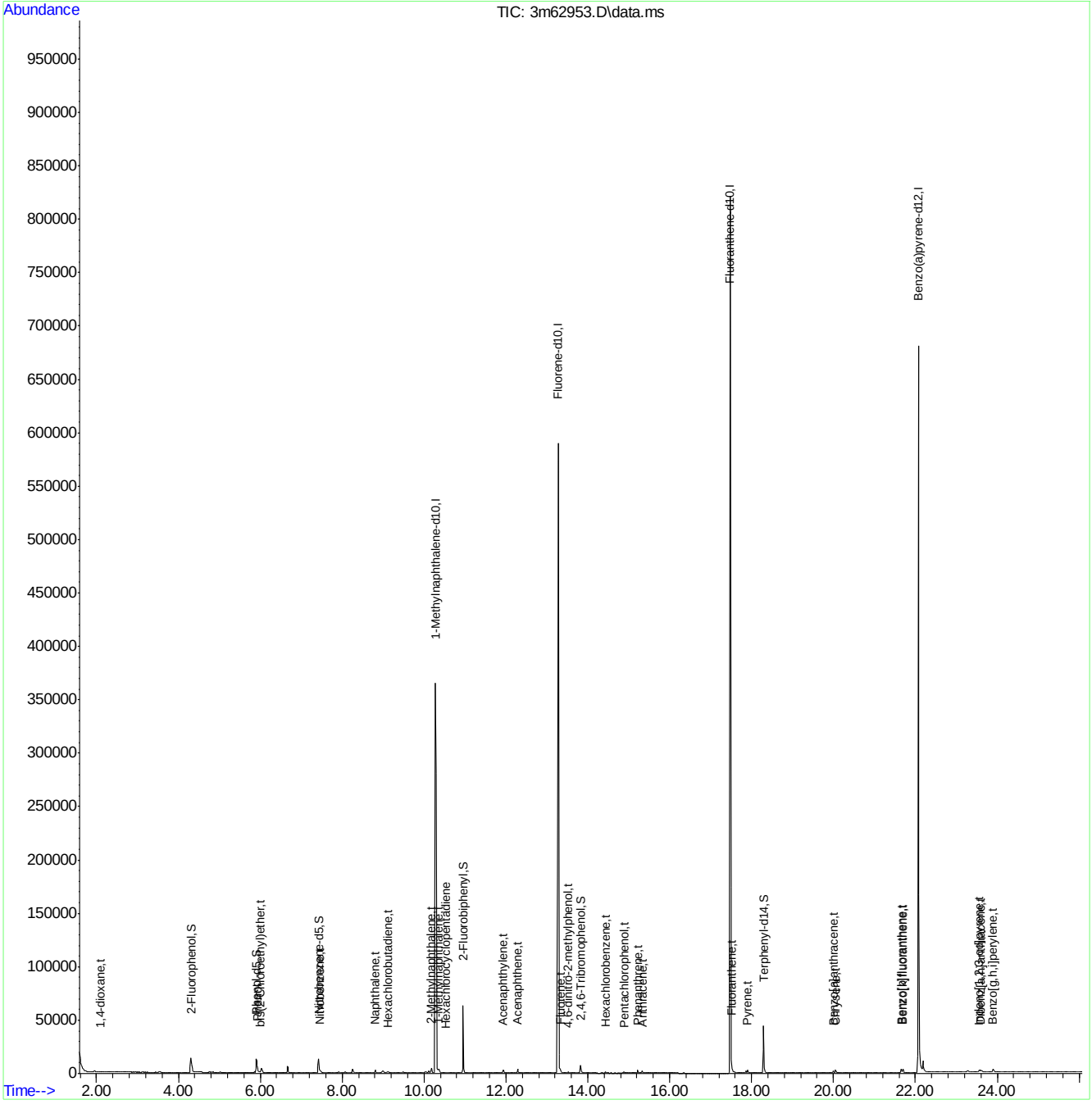
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC24978

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2975\
Data File : 3m62953.D
Acq On : 14 Jul 2016 12:01 pm
Operator : ashleyd
Sample : ic2975-0.02
Misc : op95160a,e3m2975
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jul 14 15:28:21 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2975SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu Jul 14 15:28:02 2016
Response via : Initial Calibration



SGS ACCUTEST JC24978

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2975\
Data File : 3m62954.D
Acq On : 14 Jul 2016 12:34 pm
Operator : ashleyd
Sample : ic2975-0.01
Misc : op95160a,e3m2975
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jul 14 15:28:48 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2975SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu Jul 14 15:28:29 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1-Methylnaphthalene-d10	10.281	150	286676	4.00 ppm	0.00
14) Fluorene-d10	13.275	176	465149	4.00 ppm	0.00
21) Fluoranthene-d10	17.479	212	822792	4.00 ppm	0.00
31) Benzo(a)pyrene-d12	22.070	264	710813	4.00 ppm	0.00
System Monitoring Compounds					
3) 2-Fluorophenol	4.306	112	6385	0.16 ppm	0.00
Spiked Amount 50.000			Recovery	= 0.32%	
4) Phenol-d5	5.903	99	8853	0.15 ppm	0.00
Spiked Amount 50.000			Recovery	= 0.30%	
7) Nitrobenzene-d5	7.429	82	8648	0.16 ppm	0.00
Spiked Amount 50.000			Recovery	= 0.32%	
15) 2-Fluorobiphenyl	10.958	172	25237	0.18 ppm	0.00
Spiked Amount 50.000			Recovery	= 0.36%	
20) 2,4,6-Tribromophenol	13.822	330	2153	0.11 ppm	0.00
Spiked Amount 50.000			Recovery	= 0.22%	
28) Terphenyl-d14	18.298	244	20344	0.16 ppm	0.00
Spiked Amount 50.000			Recovery	= 0.32%	
Target Compounds					Qvalue
5) Phenol	5.927	94	2320	0.04 ppm #	70
6) bis(2-Chloroethyl)ether	6.000	93	340	0.01 ppm	75
8) Nitrobenzene	7.466	77	432	0.01 ppm	66
9) Naphthalene	8.803	128	1600	0.01 ppm	99
10) Hexachlorobutadiene	9.123	225	296	0.01 ppm	97
11) 2-Methylnaphthalene	10.179	141	2216	0.02 ppm	97
12) 1-Methylnaphthalene	10.363	141	982	0.01 ppm	98
16) Acenaphthylene	11.931	152	1368	0.01 ppm	99
17) Acenaphthene	12.286	153	926	0.01 ppm	99
18) 4,6-dinitro-2-methylph...	13.520	198	584	0.07 ppm	85
22) Hexachlorobenzene	14.434	284	415	0.01 ppm	99
23) Pentachlorophenol	14.882	266	730	0.07 ppm	96
24) Phenanthrene	15.222	178	1543	0.01 ppm	98
25) Anthracene	15.330	178	1263	0.01 ppm	98
26) Fluoranthene	17.510	202	2762	0.01 ppm	98
27) Pyrene	17.896	202	1675	0.01 ppm	97
29) Benzo[a]anthracene	19.997	228	1263	0.01 ppm	99
30) Chrysene	20.059	228	1687	0.01 ppm	88
32) Benzo[b]fluoranthene	21.657	252	1655	0.01 ppm	97
33) Benzo[k]fluoranthene	21.694	252	1846	0.01 ppm	98
35) Indeno[1,2,3-cd]pyrene	23.556	276	1735	0.01 ppm	95
36) Dibenz[a,h]anthracene	23.594	278	1381	0.01 ppm	89
37) Benzo[g,h,i]perylene	23.895	276	1714	0.01 ppm	98

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

7.6.34

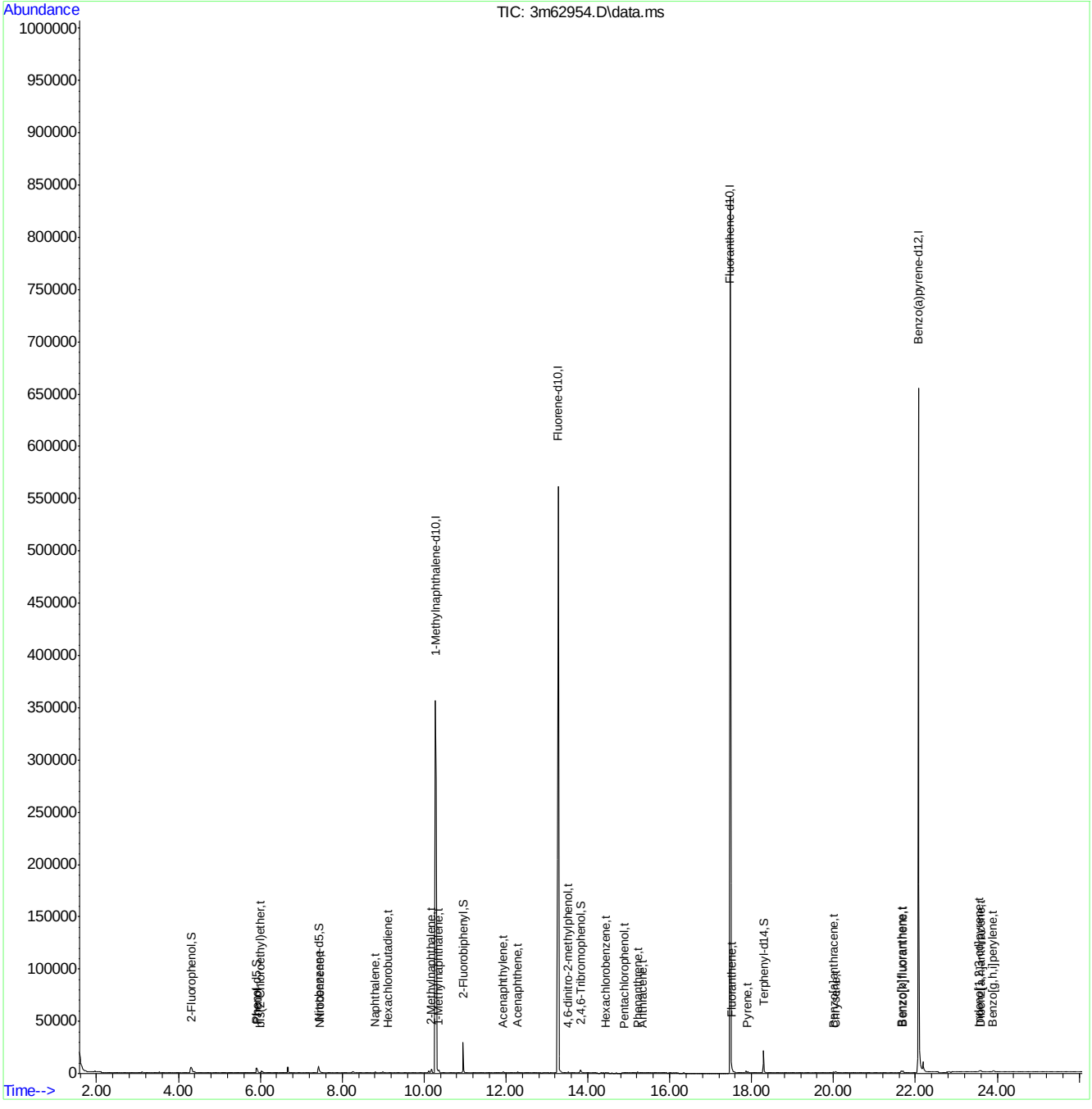
7

SGS ACCUTEST JC24978

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2975\
Data File : 3m62954.D
Acq On : 14 Jul 2016 12:34 pm
Operator : ashleyd
Sample : ic2975-0.01
Misc : op95160a,e3m2975
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jul 14 15:28:48 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2975SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu Jul 14 15:28:29 2016
Response via : Initial Calibration



SGS ACCUTEST JC24978

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2975\
Data File : 3m62955.D
Acq On : 14 Jul 2016 1:07 pm
Operator : ashleyd
Sample : ic2975-5.0
Misc : op95160a,e3m2975
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jul 14 15:29:02 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2975SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu Jul 14 15:28:56 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	10.302	150	302894	4.00	ppm	0.02
14) Fluorene-d10	13.275	176	574117	4.00	ppm	0.00
21) Fluoranthene-d10	17.479	212	860727	4.00	ppm	0.00
31) Benzo(a)pyrene-d12	22.071	264	717014	4.00	ppm	0.00
System Monitoring Compounds						
3) 2-Fluorophenol	4.307	112	4318750	102.43	ppm	0.00
Spiked Amount 50.000			Recovery = 204.86%			
4) Phenol-d5	5.915	99	6082736	97.23	ppm	0.01
Spiked Amount 50.000			Recovery = 194.46%			
7) Nitrobenzene-d5	7.429	82	6179269	105.81	ppm	0.00
Spiked Amount 50.000			Recovery = 211.62%			
15) 2-Fluorobiphenyl	10.979	172	13432150	80.85	ppm	0.02
Spiked Amount 50.000			Recovery = 161.70%			
20) 2,4,6-Tribromophenol	13.841	330	2407229	96.22	ppm	0.02
Spiked Amount 50.000			Recovery = 192.44%			
28) Terphenyl-d14	18.313	244	11677007	88.24	ppm	0.02
Spiked Amount 50.000			Recovery = 176.48%			
Target Compounds						Qvalue
2) 1,4-dioxane	2.081	88	83949	4.64	ppm #	20
5) Phenol	5.928	94	1592767	24.74	ppm #	61
6) bis(2-Chloroethyl)ether	6.000	93	254030	5.51	ppm #	78
8) Nitrobenzene	7.448	77	332950	5.93	ppm #	57
9) Naphthalene	8.804	128	904046	5.12	ppm	99
10) Hexachlorobutadiene	9.124	225	160067	5.09	ppm	97
11) 2-Methylnaphthalene	10.179	141	459838	4.90	ppm	93
12) 1-Methylnaphthalene	10.364	141	508067	5.07	ppm	97
13) Hexachlorocyclopentadiene	10.528	237	366074	18.74	ppm	85
16) Acenaphthylene	11.931	152	956438	5.17	ppm	99
17) Acenaphthene	12.287	153	598218	4.87	ppm	98
18) 4,6-dinitro-2-methylph...	13.502	198	596329	59.04	ppm #	58
19) Fluorene	13.332	166	654861	4.64	ppm	99
22) Hexachlorobenzene	14.434	284	223993	4.97	ppm	95
23) Pentachlorophenol	14.867	266	635745	56.14	ppm	94
24) Phenanthrene	15.222	178	985853	5.59	ppm	98
25) Anthracene	15.315	178	974752	6.20	ppm	91
26) Fluoranthene	17.510	202	1158185	5.01	ppm	98
27) Pyrene	17.896	202	1178028	5.73	ppm	98
29) Benzo[a]anthracene	19.998	228	1046106	6.16	ppm	99
30) Chrysene	20.044	228	1001850	5.36	ppm	87
32) Benzo[b]fluoranthene	21.657	252	1192553	5.41	ppm	98
33) Benzo[k]fluoranthene	21.694	252	1069373	5.59	ppm	98
34) Benzo[a]pyrene	22.108	252	1038380	4.91	ppm	98
35) Indeno[1,2,3-cd]pyrene	23.557	276	1179649	5.87	ppm	98
36) Dibenz[a,h]anthracene	23.594	278	987225	6.02	ppm	84
37) Benzo[g,h,i]perylene	23.895	276	955285	5.00	ppm	99

SGS ACCUTEST JC24978

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2975\
Data File : 3m62955.D
Acq On : 14 Jul 2016 1:07 pm
Operator : ashleyd
Sample : ic2975-5.0
Misc : op95160a,e3m2975
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jul 14 15:29:02 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2975SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu Jul 14 15:28:56 2016
Response via : Initial Calibration

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

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

7.6.35

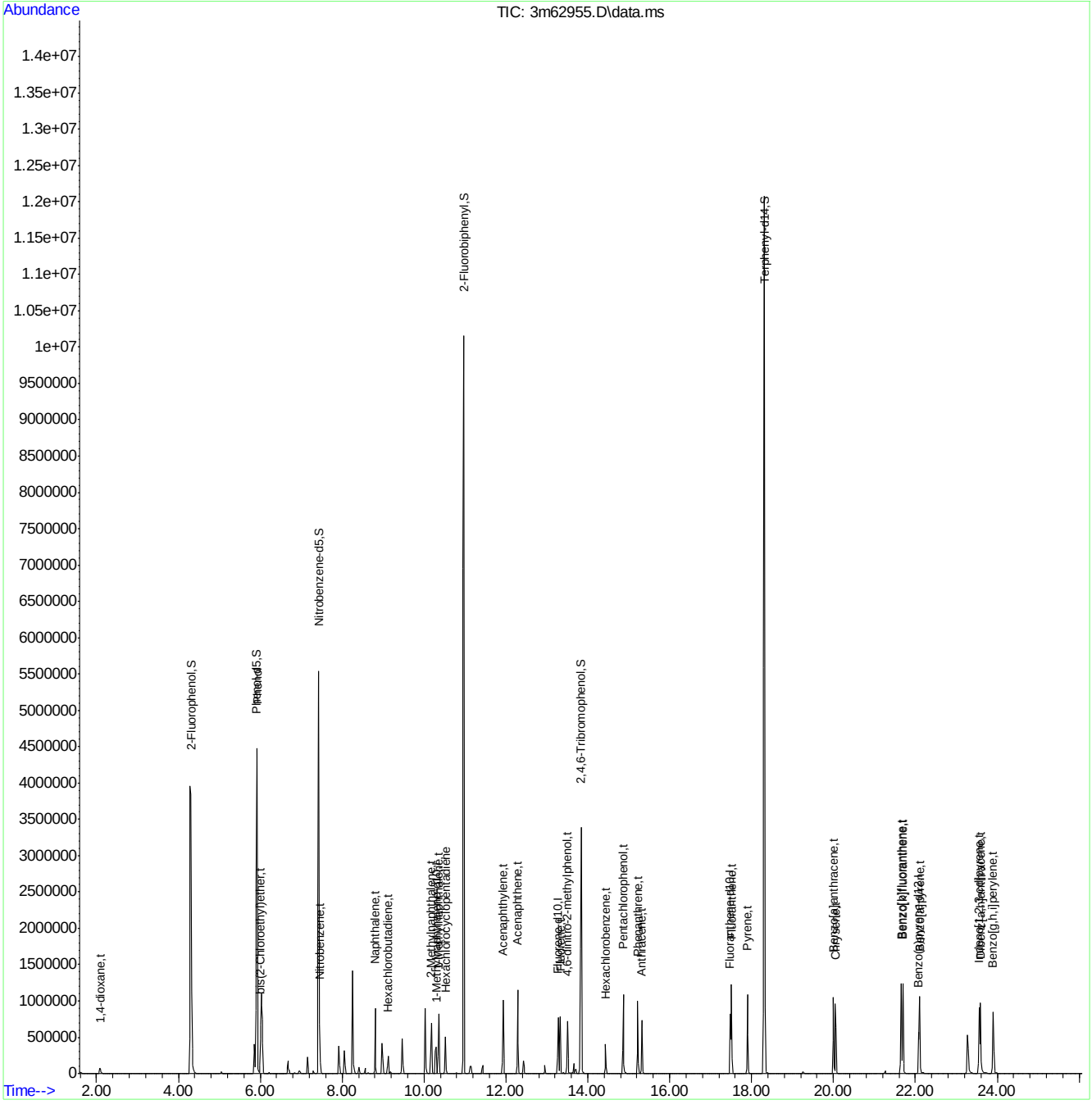
7

SGS ACCUTEST JC24978

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2975\
Data File : 3m62955.D
Acq On : 14 Jul 2016 1:07 pm
Operator : ashleyd
Sample : ic2975-5.0
Misc : op95160a,e3m2975
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jul 14 15:29:02 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2975SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu Jul 14 15:28:56 2016
Response via : Initial Calibration



SGS ACCUTEST JC24978

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2975\
Data File : 3m62956.D
Acq On : 14 Jul 2016 1:40 pm
Operator : ashleyd
Sample : ic2975-2.5
Misc : op95160a,e3m2975
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jul 14 15:29:27 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2975SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu Jul 14 15:29:21 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	10.302	150	285610	4.00	ppm	0.00
14) Fluorene-d10	13.275	176	507003	4.00	ppm	0.00
21) Fluoranthene-d10	17.479	212	780744	4.00	ppm	0.00
31) Benzo(a)pyrene-d12	22.070	264	647332	4.00	ppm	0.00
System Monitoring Compounds						
3) 2-Fluorophenol	4.307	112	1983802	49.60	ppm	0.00
Spiked Amount 50.000			Recovery = 99.20%			
4) Phenol-d5	5.903	99	2905488	49.60	ppm	-0.01
Spiked Amount 50.000			Recovery = 99.20%			
7) Nitrobenzene-d5	7.410	82	2634312	47.15	ppm	-0.02
Spiked Amount 50.000			Recovery = 94.30%			
15) 2-Fluorobiphenyl	10.958	172	5099733	34.76	ppm	-0.02
Spiked Amount 50.000			Recovery = 69.52%			
20) 2,4,6-Tribromophenol	13.822	330	958511	44.22	ppm	-0.02
Spiked Amount 50.000			Recovery = 88.44%			
28) Terphenyl-d14	18.298	244	5685434	49.30	ppm	-0.02
Spiked Amount 50.000			Recovery = 98.60%			
Target Compounds						Qvalue
2) 1,4-dioxane	2.097	88	36776	2.21	ppm #	49
5) Phenol	5.915	94	777392	12.83	ppm	94
6) bis(2-Chloroethyl)ether	6.000	93	119739	2.71	ppm #	46
8) Nitrobenzene	7.448	77	157465	2.89	ppm	81
9) Naphthalene	8.803	128	423455	2.53	ppm	100
10) Hexachlorobutadiene	9.124	225	73731	2.48	ppm	98
11) 2-Methylnaphthalene	10.179	141	218761	2.48	ppm	95
12) 1-Methylnaphthalene	10.364	141	238134	2.51	ppm	99
13) Hexachlorocyclopentadiene	10.528	237	155288	6.53	ppm	98
16) Acenaphthylene	11.931	152	434834	2.65	ppm	100
17) Acenaphthene	12.287	153	273677	2.53	ppm	100
18) 4,6-dinitro-2-methylph...	13.501	198	284805	21.96	ppm #	46
19) Fluorene	13.332	166	294196	2.40	ppm	98
22) Hexachlorobenzene	14.434	284	104325	2.56	ppm	99
23) Pentachlorophenol	14.867	266	252598	18.75	ppm	96
24) Phenanthrene	15.222	178	448657	2.73	ppm	99
25) Anthracene	15.315	178	445790	2.89	ppm	100
26) Fluoranthene	17.510	202	536138	2.55	ppm	100
27) Pyrene	17.896	202	544179	2.81	ppm	99
29) Benzo[a]anthracene	19.997	228	458604	2.81	ppm	100
30) Chrysene	20.044	228	455740	2.64	ppm	100
32) Benzo[b]fluoranthene	21.657	252	551382	2.70	ppm	99
33) Benzo[k]fluoranthene	21.694	252	471150	2.62	ppm	98
34) Benzo[a]pyrene	22.108	252	473725	2.48	ppm	99
35) Indeno[1,2,3-cd]pyrene	23.557	276	516726	2.69	ppm	99
36) Dibenz[a,h]anthracene	23.594	278	434078	2.74	ppm	98
37) Benzo[g,h,i]perylene	23.895	276	455460	2.64	ppm	100

SGS ACCUTEST JC24978

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2975\
Data File : 3m62956.D
Acq On : 14 Jul 2016 1:40 pm
Operator : ashleyd
Sample : ic2975-2.5
Misc : op95160a,e3m2975
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jul 14 15:29:27 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2975SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu Jul 14 15:29:21 2016
Response via : Initial Calibration

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

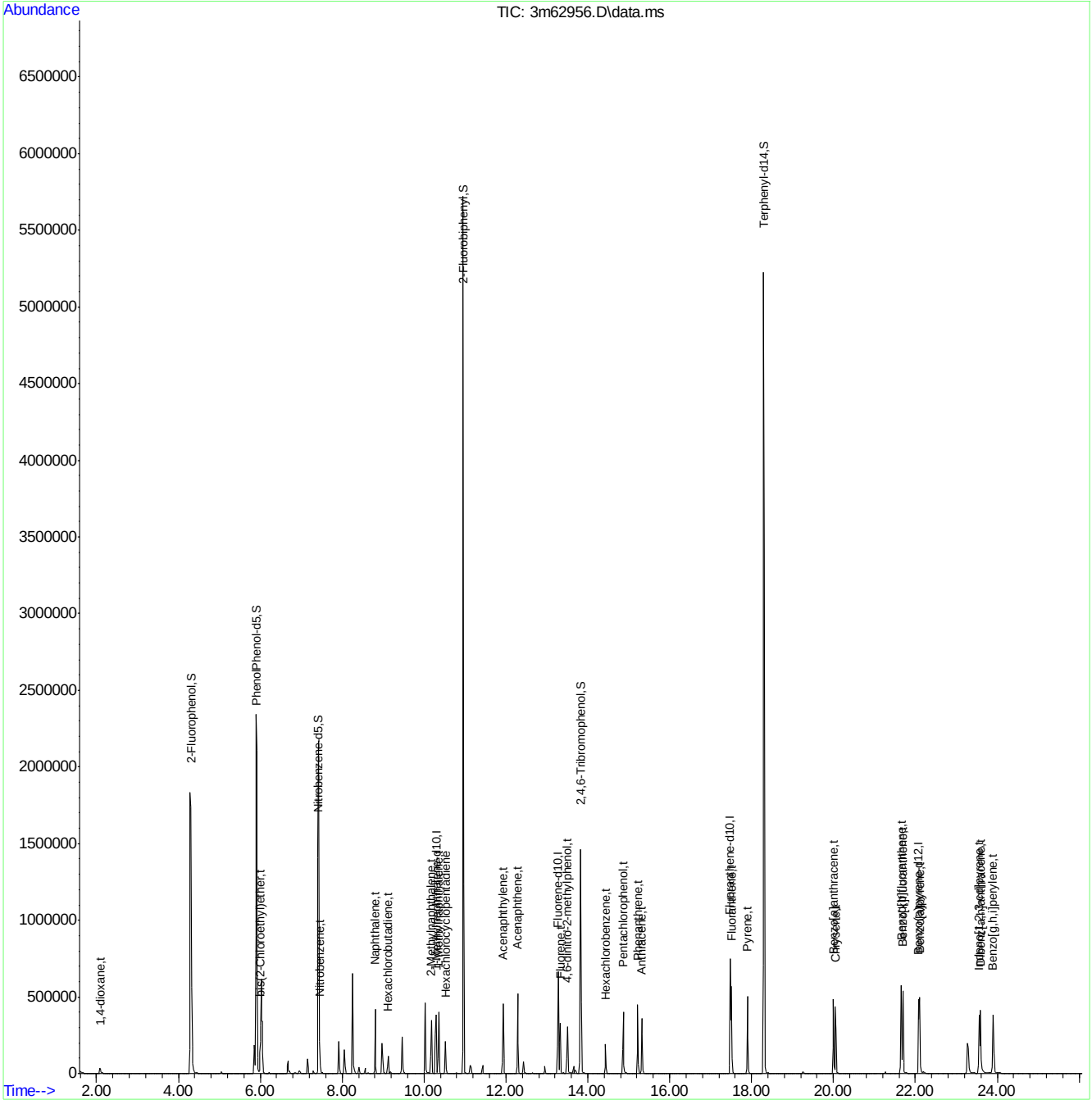
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC24978

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2975\
Data File : 3m62956.D
Acq On : 14 Jul 2016 1:40 pm
Operator : ashleyd
Sample : ic2975-2.5
Misc : op95160a,e3m2975
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jul 14 15:29:27 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2975SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu Jul 14 15:29:21 2016
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2975\
Data File : 3m62957.D
Acq On : 14 Jul 2016 2:13 pm
Operator : ashleyd
Sample : icc2975-1.0
Misc : op95160a,e3m2975
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jul 14 15:29:54 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2975SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu Jul 14 15:29:47 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	10.302	150	228297	4.00	ppm	0.00
14) Fluorene-d10	13.275	176	373616	4.00	ppm	0.00
21) Fluoranthene-d10	17.479	212	574048	4.00	ppm	0.00
31) Benzo(a)pyrene-d12	22.070	264	465703	4.00	ppm	0.00
System Monitoring Compounds						
3) 2-Fluorophenol	4.307	112	621771	19.48	ppm	0.00
Spiked Amount 50.000			Recovery = 38.96%			
4) Phenol-d5	5.903	99	946661	20.25	ppm	0.00
Spiked Amount 50.000			Recovery = 40.50%			
7) Nitrobenzene-d5	7.410	82	884109	20.03	ppm	0.00
Spiked Amount 50.000			Recovery = 40.06%			
15) 2-Fluorobiphenyl	10.958	172	1961530	19.11	ppm	0.00
Spiked Amount 50.000			Recovery = 38.22%			
20) 2,4,6-Tribromophenol	13.822	330	317780	20.69	ppm	0.00
Spiked Amount 50.000			Recovery = 41.38%			
28) Terphenyl-d14	18.298	244	1844889	21.83	ppm	0.00
Spiked Amount 50.000			Recovery = 43.66%			
Target Compounds						Qvalue
2) 1,4-dioxane	2.097	88	11914	0.92	ppm	93
5) Phenol	5.915	94	249953	5.14	ppm #	78
6) bis(2-Chloroethyl)ether	6.000	93	38215	1.07	ppm	82
8) Nitrobenzene	7.448	77	45371	1.02	ppm	95
9) Naphthalene	8.803	128	131390	0.98	ppm	100
10) Hexachlorobutadiene	9.123	225	24161	1.02	ppm	97
11) 2-Methylnaphthalene	10.179	141	68399	0.97	ppm	98
12) 1-Methylnaphthalene	10.364	141	76266	1.01	ppm	98
13) Hexachlorocyclopentadiene	10.528	237	38119	1.86	ppm	97
16) Acenaphthylene	11.931	152	127625	1.04	ppm	99
17) Acenaphthene	12.286	153	82317	1.03	ppm	97
18) 4,6-dinitro-2-methylph...	13.501	198	67675	5.95	ppm	97
19) Fluorene	13.332	166	89586	1.00	ppm	98
22) Hexachlorobenzene	14.434	284	32412	1.08	ppm	98
23) Pentachlorophenol	14.867	266	59091	5.42	ppm	94
24) Phenanthrene	15.222	178	138217	1.12	ppm	99
25) Anthracene	15.331	178	126386	1.07	ppm	89
26) Fluoranthene	17.510	202	159695	1.03	ppm	100
27) Pyrene	17.896	202	155527	1.07	ppm	98
29) Benzo[a]anthracene	19.997	228	127746	1.04	ppm	97
30) Chrysene	20.059	228	137402	1.07	ppm	84
32) Benzo[b]fluoranthene	21.657	252	155244	1.03	ppm	97
33) Benzo[k]fluoranthene	21.694	252	151903	1.16	ppm	98
34) Benzo[a]pyrene	22.108	252	140752	1.03	ppm	99
35) Indeno[1,2,3-cd]pyrene	23.556	276	146193	1.04	ppm	99
36) Dibenz[a,h]anthracene	23.594	278	122655	1.05	ppm	96
37) Benzo[g,h,i]perylene	23.895	276	135161	1.07	ppm	100

SGS ACCUTEST JC24978

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2975\
Data File : 3m62957.D
Acq On : 14 Jul 2016 2:13 pm
Operator : ashleyd
Sample : icc2975-1.0
Misc : op95160a,e3m2975
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jul 14 15:29:54 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2975SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu Jul 14 15:29:47 2016
Response via : Initial Calibration

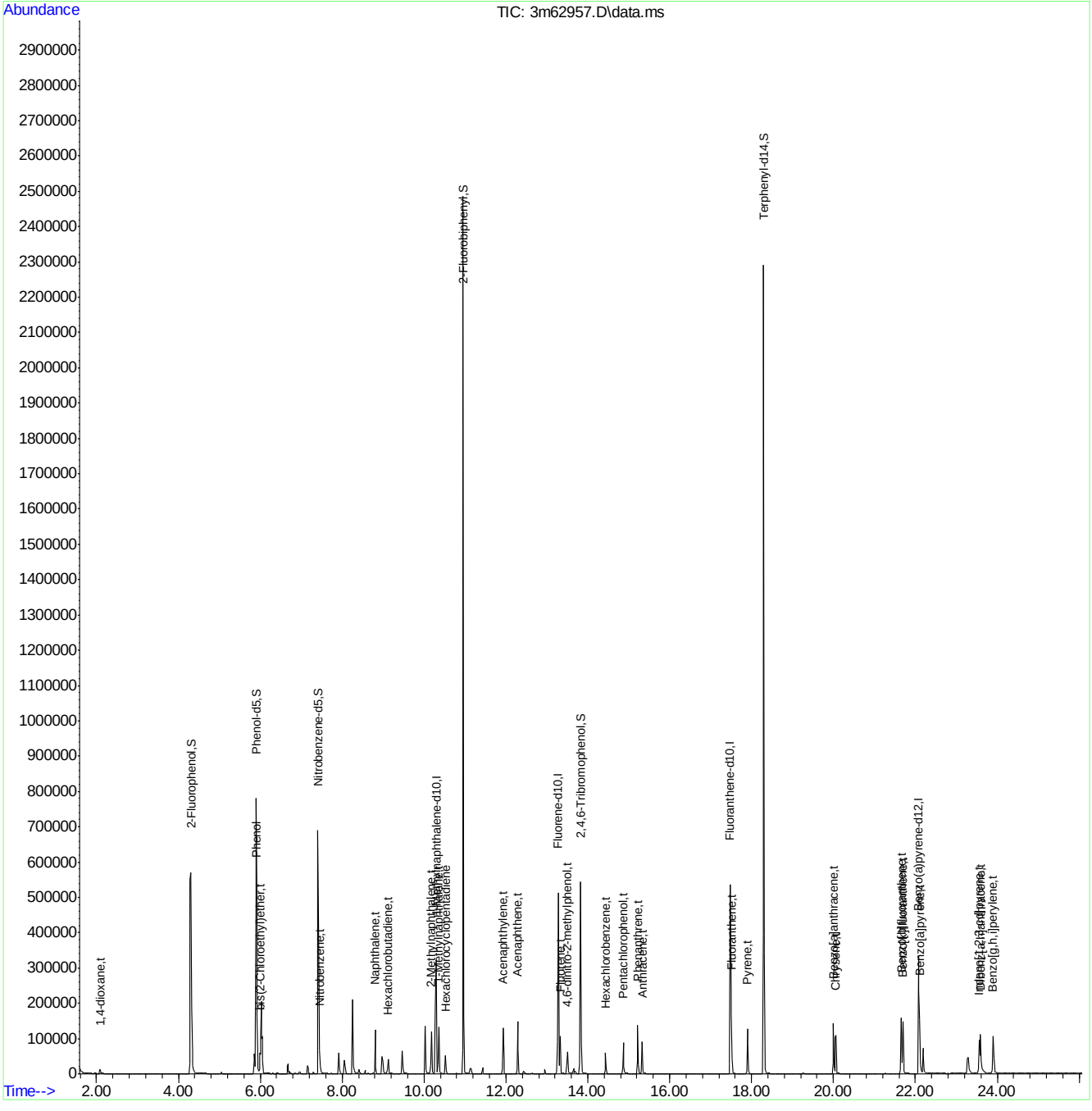
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2975\
Data File : 3m62957.D
Acq On : 14 Jul 2016 2:13 pm
Operator : ashleyd
Sample : icc2975-1.0
Misc : op95160a,e3m2975
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jul 14 15:29:54 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2975SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu Jul 14 15:29:47 2016
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2975\
Data File : 3m62958.D
Acq On : 14 Jul 2016 2:47 pm
Operator : ashleyd
Sample : ic2975-0.5
Misc : op95160a,e3m2975
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jul 14 15:30:20 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2975SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu Jul 14 15:30:15 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	10.302	150	230723	4.00	ppm	0.00
14) Fluorene-d10	13.275	176	358418	4.00	ppm	0.00
21) Fluoranthene-d10	17.479	212	570136	4.00	ppm	0.00
31) Benzo(a)pyrene-d12	22.071	264	456885	4.00	ppm	0.00
System Monitoring Compounds						
3) 2-Fluorophenol	4.307	112	320713	9.98	ppm	0.00
Spiked Amount 50.000			Recovery = 19.96%			
4) Phenol-d5	5.903	99	483395	10.21	ppm	0.00
Spiked Amount 50.000			Recovery = 20.42%			
7) Nitrobenzene-d5	7.410	82	443910	9.95	ppm	0.00
Spiked Amount 50.000			Recovery = 19.90%			
15) 2-Fluorobiphenyl	10.958	172	1068117	10.92	ppm	0.00
Spiked Amount 50.000			Recovery = 21.84%			
20) 2,4,6-Tribromophenol	13.822	330	155369	10.46	ppm	0.00
Spiked Amount 50.000			Recovery = 20.92%			
28) Terphenyl-d14	18.298	244	947200	11.08	ppm	0.00
Spiked Amount 50.000			Recovery = 22.16%			
Target Compounds						Qvalue
2) 1,4-dioxane	2.097	88	5941	0.46	ppm	96
5) Phenol	5.915	94	127606	2.59	ppm	97
6) bis(2-Chloroethyl)ether	6.000	93	19319	0.53	ppm	96
8) Nitrobenzene	7.448	77	22596	0.50	ppm	97
9) Naphthalene	8.803	128	67693	0.50	ppm	99
10) Hexachlorobutadiene	9.124	225	12542	0.52	ppm	99
11) 2-Methylnaphthalene	10.179	141	34939	0.49	ppm	97
12) 1-Methylnaphthalene	10.364	141	40136	0.52	ppm	97
13) Hexachlorocyclopentadiene	10.528	237	16452	0.81	ppm	99
16) Acenaphthylene	11.931	152	62095	0.53	ppm	99
17) Acenaphthene	12.287	153	41062	0.53	ppm	100
18) 4,6-dinitro-2-methylph...	13.501	198	25163	2.22	ppm	88
19) Fluorene	13.332	166	45274	0.53	ppm	99
22) Hexachlorobenzene	14.434	284	16559	0.55	ppm	100
23) Pentachlorophenol	14.867	266	22569	2.06	ppm	96
24) Phenanthrene	15.222	178	67150	0.54	ppm	99
25) Anthracene	15.331	178	60580	0.51	ppm	99
26) Fluoranthene	17.510	202	81489	0.53	ppm	100
27) Pyrene	17.896	202	75908	0.52	ppm	99
29) Benzo[a]anthracene	19.997	228	60028	0.49	ppm	100
30) Chrysene	20.059	228	65707	0.51	ppm	99
32) Benzo[b]fluoranthene	21.657	252	74987	0.51	ppm	99
33) Benzo[k]fluoranthene	21.694	252	73383	0.55	ppm	100
34) Benzo[a]pyrene	22.108	252	73339	0.54	ppm	100
35) Indeno[1,2,3-cd]pyrene	23.557	276	69465	0.50	ppm	99
36) Dibenz[a,h]anthracene	23.594	278	57966	0.50	ppm	96
37) Benzo[g,h,i]perylene	23.895	276	66291	0.53	ppm	100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2975\
Data File : 3m62958.D
Acq On : 14 Jul 2016 2:47 pm
Operator : ashleyd
Sample : ic2975-0.5
Misc : op95160a,e3m2975
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jul 14 15:30:20 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2975SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu Jul 14 15:30:15 2016
Response via : Initial Calibration

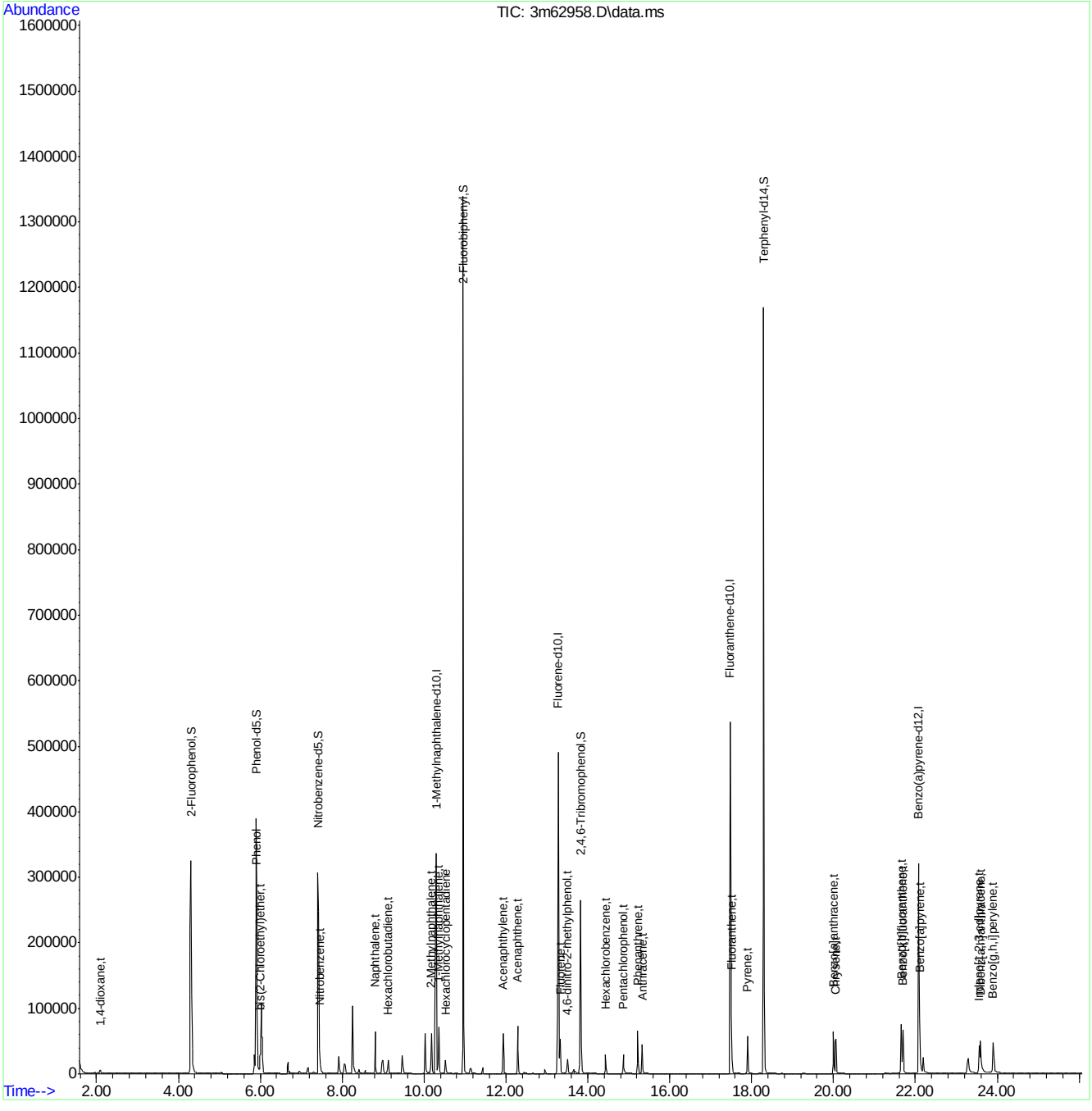
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2975\
Data File : 3m62958.D
Acq On : 14 Jul 2016 2:47 pm
Operator : ashleyd
Sample : ic2975-0.5
Misc : op95160a,e3m2975
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jul 14 15:30:20 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2975SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu Jul 14 15:30:15 2016
Response via : Initial Calibration



SGS ACCUTEST JC24978

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2976\
Data File : 3m62962.D
Acq On : 14 Jul 2016 5:18 pm
Operator : ashleyd
Sample : icv2975-1.0
Misc : op95160a,e3m2976
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 14 17:53:07 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2975SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu Jul 14 15:32:15 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	10.282	150	326153	4.00	ppm	-0.02
14) Fluorene-d10	13.256	176	408071	4.00	ppm	-0.02
21) Fluoranthene-d10	17.463	212	674609	4.00	ppm	-0.02
31) Benzo(a)pyrene-d12	22.052	264	535649	4.00	ppm	-0.02
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	5.915	94	292261	4.17	ppm	# 65
18) 4,6-dinitro-2-methylph...	13.483	198	63251	4.49	ppm	80
23) Pentachlorophenol	14.851	266	89609	5.89	ppm	98

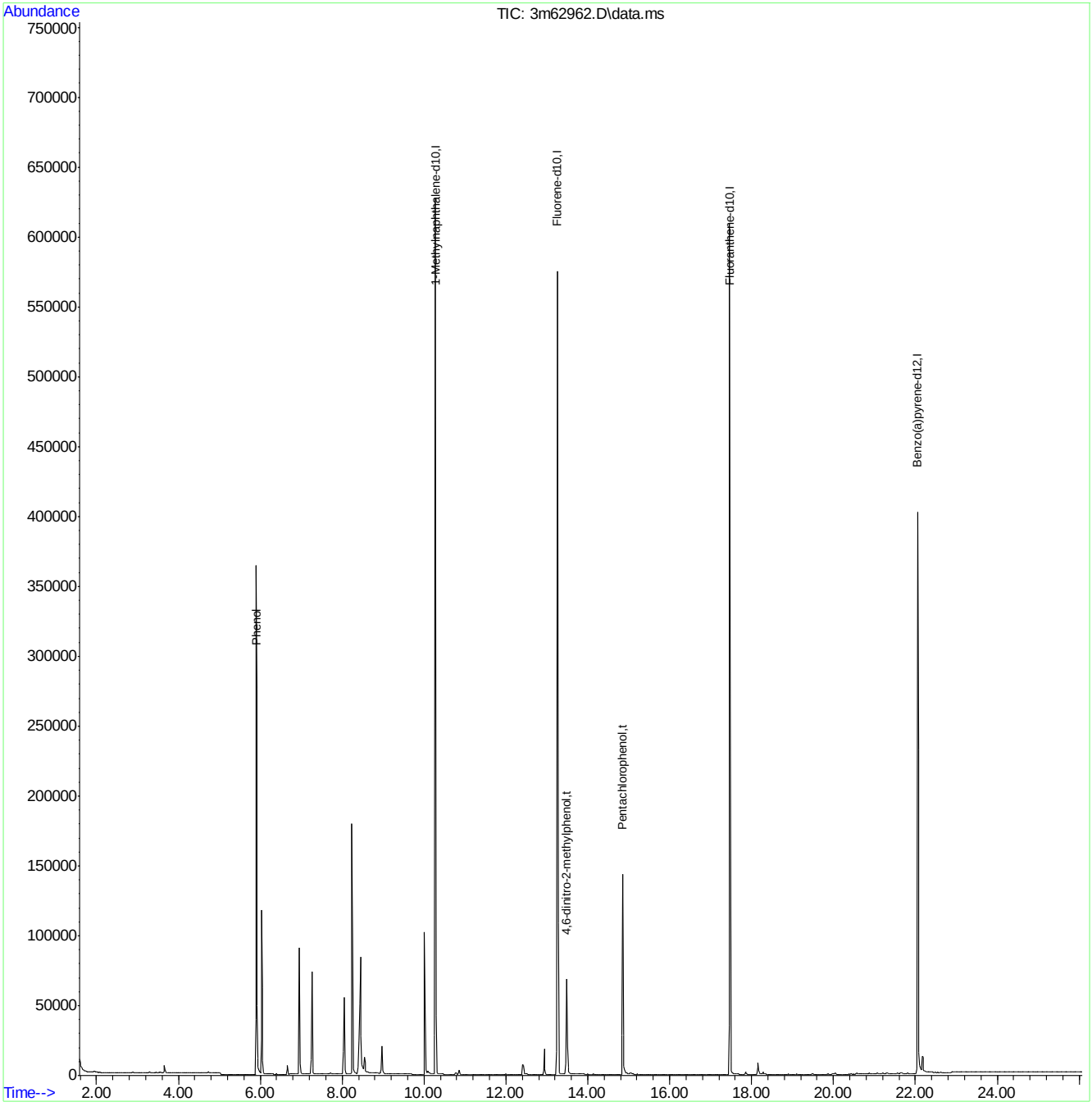
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC24978

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2976\
Data File : 3m62962.D
Acq On : 14 Jul 2016 5:18 pm
Operator : ashleyd
Sample : icv2975-1.0
Misc : op95160a,e3m2976
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 14 17:53:07 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2975SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu Jul 14 15:32:15 2016
Response via : Initial Calibration



SGS ACCUTEST JC24978

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2976\
Data File : 3m62963.D
Acq On : 14 Jul 2016 5:51 pm
Operator : ashleyd
Sample : icv2975-1.0
Misc : op95160a,e3m2976
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 14 18:16:12 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2975SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu Jul 14 15:32:15 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	10.281	150	300470	4.00	ppm	-0.02
14) Fluorene-d10	13.256	176	378084	4.00	ppm	-0.02
21) Fluoranthene-d10	17.463	212	606745	4.00	ppm	-0.02
31) Benzo(a)pyrene-d12	22.052	264	480039	4.00	ppm	-0.02
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	0	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	2.097	88	13689	0.83	ppm	80
6) bis(2-Chloroethyl)ether	5.988	93	49746	1.04	ppm	81
8) Nitrobenzene	7.448	77	47032	0.80	ppm #	44
9) Naphthalene	8.803	128	146732	0.83	ppm	92
10) Hexachlorobutadiene	9.105	225	31565	1.00	ppm	77
11) 2-Methylnaphthalene	10.158	141	91200	0.99	ppm #	70
13) Hexachlorocyclopentadiene	10.528	237	15493	0.70	ppm	79
16) Acenaphthylene	11.915	152	156116	1.25	ppm	95
17) Acenaphthene	12.271	153	103254	1.26	ppm	91
19) Fluorene	13.313	166	120577	1.32	ppm	88
22) Hexachlorobenzene	14.418	284	38185	1.18	ppm	97
24) Phenanthrene	15.207	178	165938	1.24	ppm	99
25) Anthracene	15.315	178	146697	1.16	ppm	88
26) Fluoranthene	17.494	202	195403	1.18	ppm	99
27) Pyrene	17.881	202	193884	1.24	ppm	99
29) Benzo[a]anthracene	19.982	228	167952	1.29	ppm	99
30) Chrysene	20.028	228	160042	1.16	ppm	99
32) Benzo[b]fluoranthene	21.638	252	177150	1.14	ppm	98
33) Benzo[k]fluoranthene	21.675	252	167982	1.19	ppm	100
34) Benzo[a]pyrene	22.089	252	163851	1.14	ppm	98
35) Indeno[1,2,3-cd]pyrene	23.538	276	171257	1.17	ppm	97
36) Dibenz[a,h]anthracene	23.575	278	135123	1.11	ppm	90
37) Benzo[g,h,i]perylene	23.876	276	149889	1.13	ppm	99

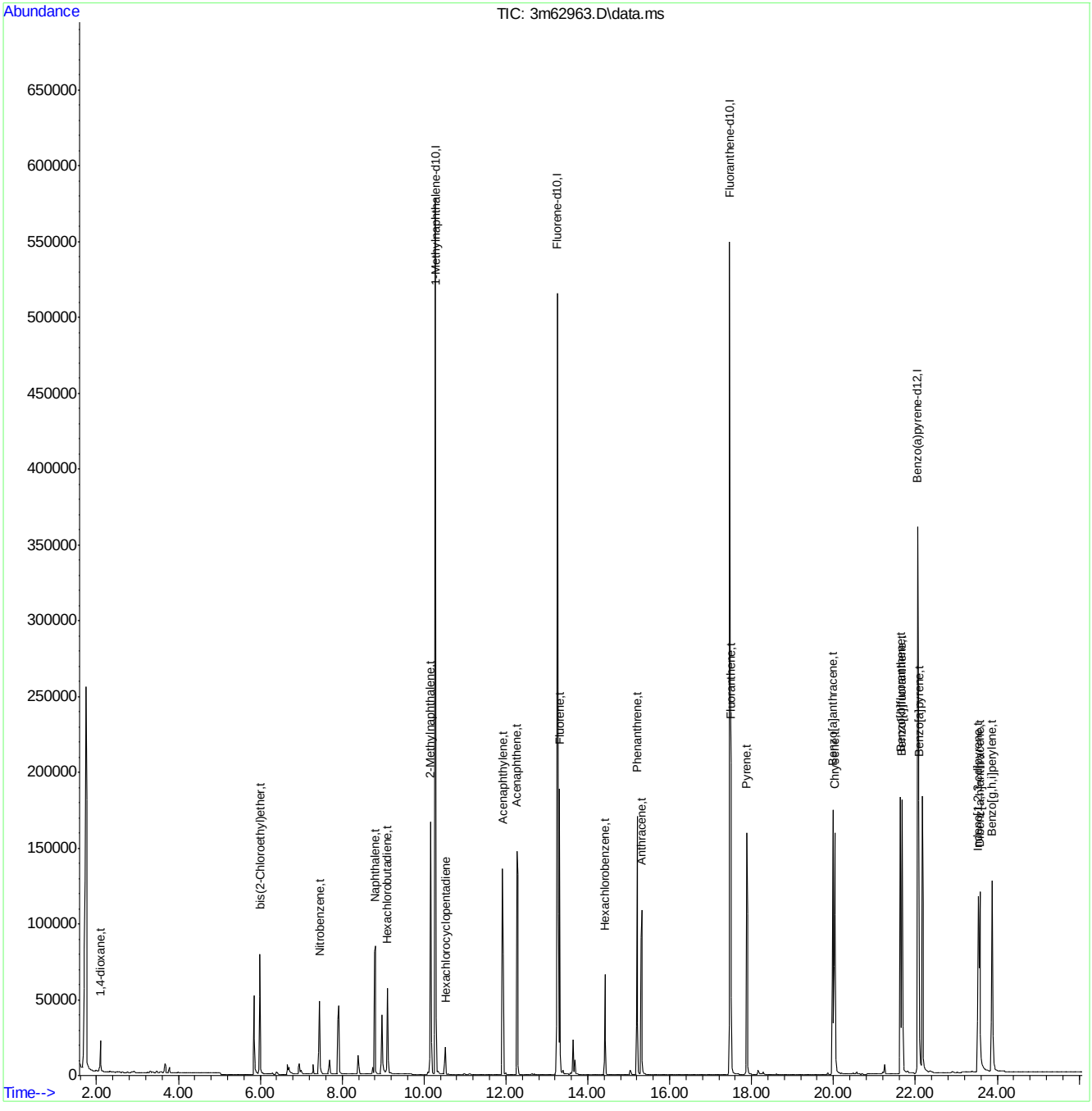
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC24978

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2976\
Data File : 3m62963.D
Acq On : 14 Jul 2016 5:51 pm
Operator : ashleyd
Sample : icv2975-1.0
Misc : op95160a,e3m2976
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 14 18:16:12 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2975SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu Jul 14 15:32:15 2016
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M3004\
Data File : 3m63391.D
Acq On : 2 Aug 2016 11:08 am
Operator : SHANICEG
Sample : cc2975-0.5
Misc : op95160a,e3m3004
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 02 12:47:18 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2975SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Tue Aug 02 08:23:04 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	10.097	150	360456	4.00	ppm	-0.12
14) Fluorene-d10	13.107	176	494837	4.00	ppm	-0.04
21) Fluoranthene-d10	17.341	212	824313	4.00	ppm	-0.08
31) Benzo(a)pyrene-d12	21.978	264	390331	4.00	ppm	-0.09
System Monitoring Compounds						
3) 2-Fluorophenol	4.152	112	354030	7.06	ppm	-0.12
Spiked Amount 50.000			Recovery	=	14.12%	
4) Phenol-d5	5.770	99	595319	8.02	ppm	-0.10
Spiked Amount 50.000			Recovery	=	16.04%	
7) Nitrobenzene-d5	7.222	82	680518	9.77	ppm	-0.15
Spiked Amount 50.000			Recovery	=	19.54%	
15) 2-Fluorobiphenyl	10.774	172	1386464	10.32	ppm	-0.10
Spiked Amount 50.000			Recovery	=	20.64%	
20) 2,4,6-Tribromophenol	13.673	330	165477	7.99	ppm	-0.03
Spiked Amount 50.000			Recovery	=	15.98%	
28) Terphenyl-d14	18.160	244	1245742	9.90	ppm	-0.09
Spiked Amount 50.000			Recovery	=	19.80%	
Target Compounds						Qvalue
2) 1,4-dioxane	1.927	88	8511	0.43	ppm #	1
5) Phenol	5.783	94	156778	2.02	ppm	92
8) Nitrobenzene	7.259	77	36899	0.52	ppm	75
9) Naphthalene	8.615	128	90364	0.43	ppm	96
10) Hexachlorobutadiene	8.916	225	15569	0.41	ppm	98
11) 2-Methylnaphthalene	9.995	141	52287	0.47	ppm	83
12) 1-Methylnaphthalene	10.179	141	56795	0.47	ppm	98
13) Hexachlorocyclopentadiene	10.343	237	2040	0.24	ppm #	75
16) Acenaphthylene	11.746	152	104218	0.64	ppm	97
17) Acenaphthene	12.117	153	65516	0.61	ppm	81
18) 4,6-dinitro-2-methylph...	13.390	198	11849	1.01	ppm #	74
19) Fluorene	13.145	166	73692	0.62	ppm	73
22) Hexachlorobenzene	14.265	284	20004	0.45	ppm	90
23) Pentachlorophenol	14.745	266	26094	1.74	ppm	97
24) Phenanthrene	15.054	178	101134	0.55	ppm	95
25) Anthracene	15.162	178	111512	0.65	ppm	95
26) Fluoranthene	17.372	202	122693	0.54	ppm	99
27) Pyrene	17.774	202	124758	0.59	ppm	92
29) Benzo[a]anthracene	19.875	228	86584	0.49	ppm	96
30) Chrysene	19.937	228	101417	0.54	ppm	96
32) Benzo[b]fluoranthene	21.545	252	59535	0.47	ppm	87
33) Benzo[k]fluoranthene	21.583	252	68699	0.60	ppm	85
34) Benzo[a]pyrene	21.997	252	60512	0.52	ppm	89
35) Indeno[1,2,3-cd]pyrene	23.464	276	59866	0.50	ppm	98
36) Dibenz[a,h]anthracene	23.483	278	47039	0.48	ppm	92
37) Benzo[g,h,i]perylene	23.803	276	52852	0.49	ppm	98

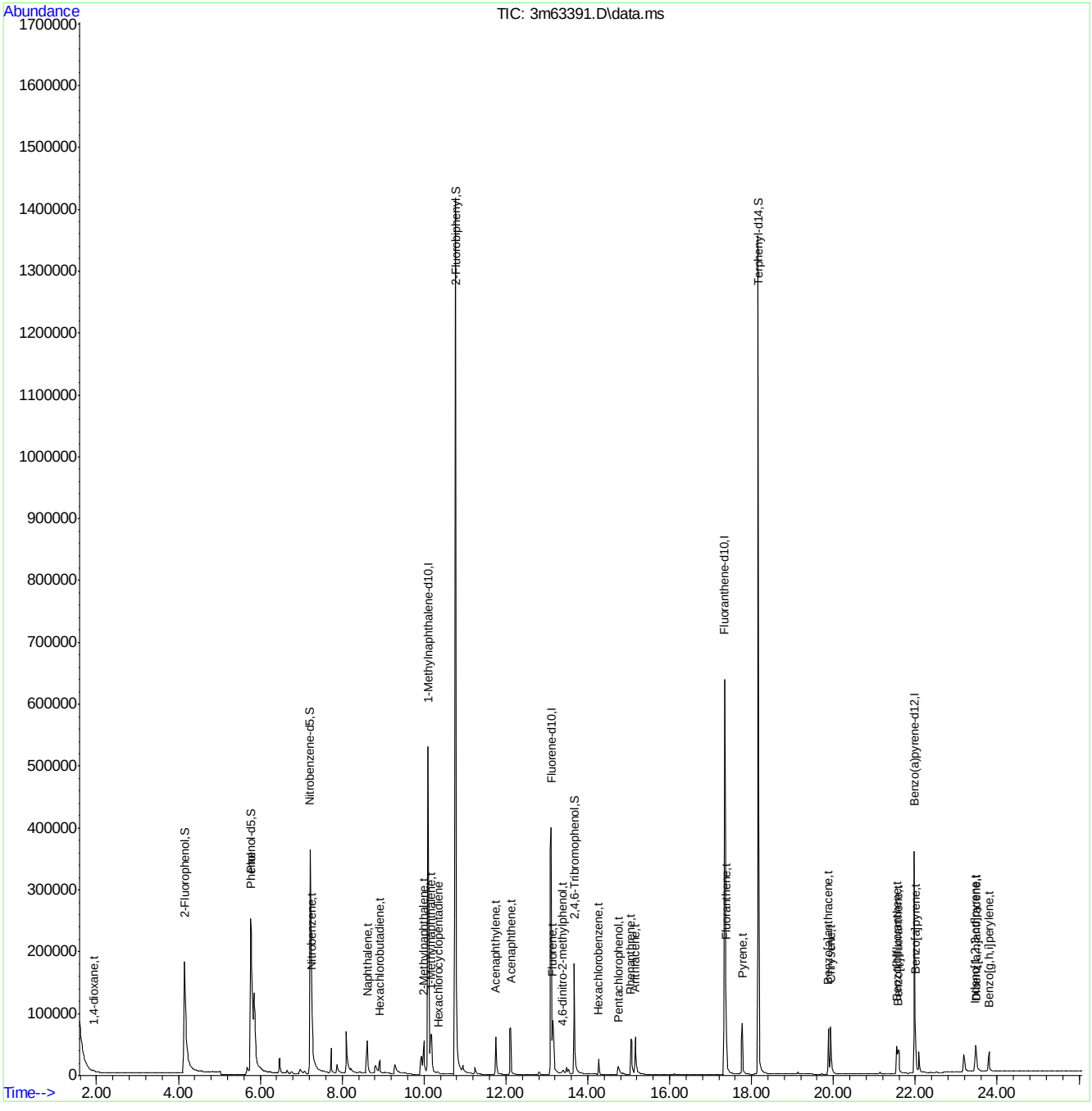
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC24978

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M3004\
Data File : 3m63391.D
Acq On : 2 Aug 2016 11:08 am
Operator : SHANICEG
Sample : cc2975-0.5
Misc : op95160a,e3m3004
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 02 12:47:18 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2975SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Tue Aug 02 08:23:04 2016
Response via : Initial Calibration

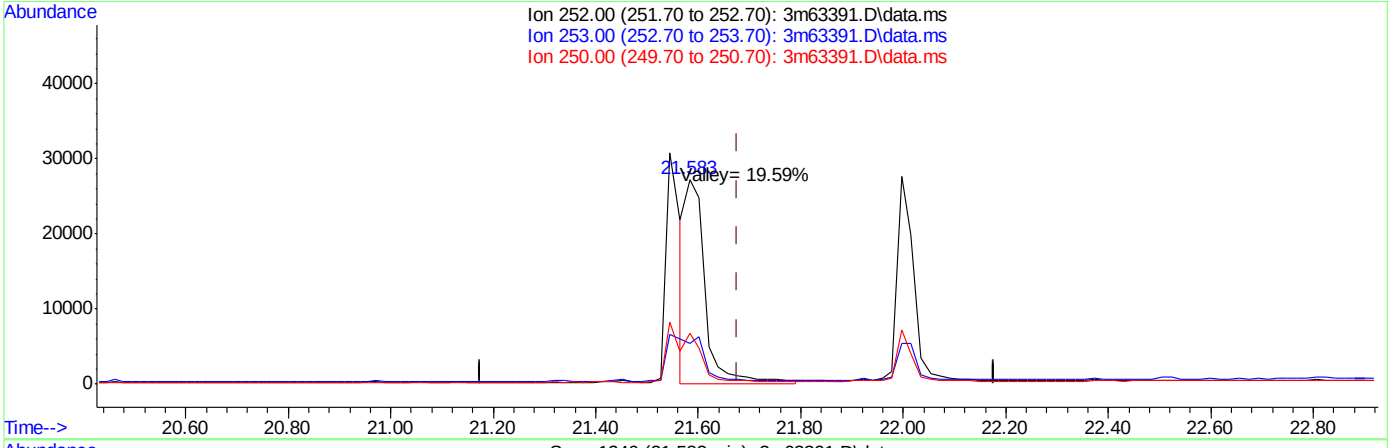


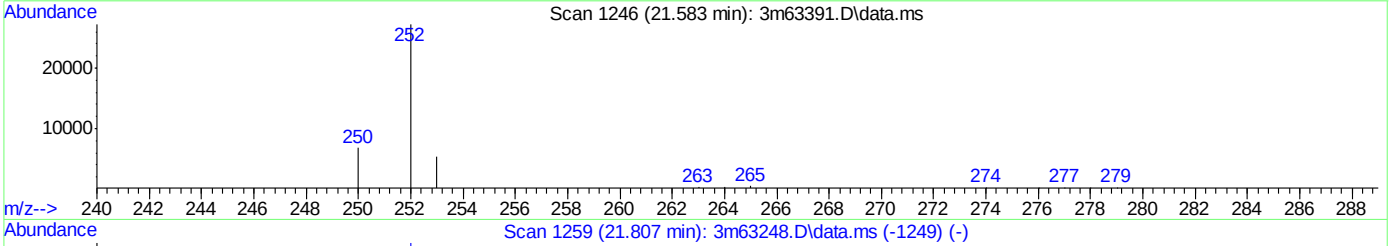
M3M2975SIM.M Tue Aug 02 12:49:04 2016 RPT1 Page: 2

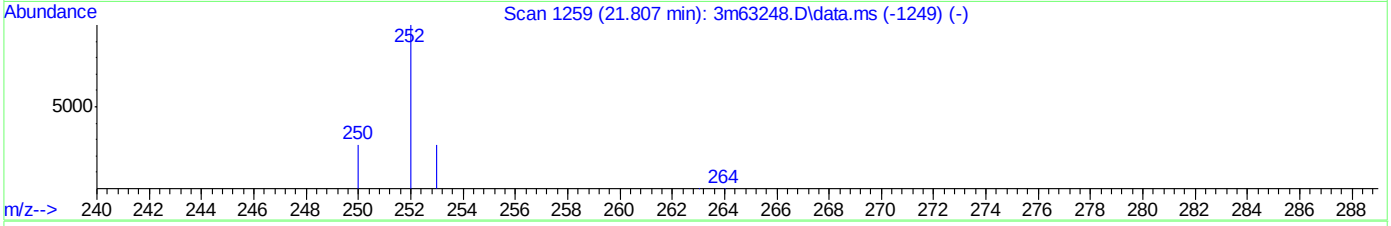
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E3M3004\
Data File : 3m63391.D
Acq On : 2 Aug 2016 11:08 am
Operator : SHANICEG
Sample : cc2975-0.5
Misc : op95160a,e3m3004
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 02 11:42:06 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2975SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Tue Aug 02 08:23:04 2016
Response via : Initial Calibration







TIC: 3m63391.D\data.ms

(33) Benzo[k]fluoranthene (t)

21.583min (-0.094) 0.60ppm

response 68699

Ion	Exp%	Act%
252.00	100	100
253.00	22.10	13.13
250.00	22.50	27.72
0.00	0.00	0.00

Manual Integrations APPROVED (compounds with "m" flag)
Nina Pandya
07/11/16 10:45

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\E3P2503\
Data File : 3p54955.D
Acq On : 6 Jul 2016 10:32 am
Operator : hankc
Sample : icc2503-1.0
Misc : op95179a,e3p2503
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 06 17:25:10 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3P2503SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Wed Jul 06 17:23:56 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	11.100	150	54447	4.00	ppm	0.00
14) Fluorene-d10	14.093	176	82620	4.00	ppm	0.00
21) Fluoranthene-d10	18.256	212	129840	4.00	ppm	0.00
31) Benzo(a)pyrene-d12	22.812	264	96457	4.00	ppm	0.00
System Monitoring Compounds						
3) 2-Fluorophenol	5.039	112	162469	20.41	ppm	0.00
Spiked Amount 50.000			Recovery = 40.82%			
4) Phenol-d5	6.603	99	205430	20.35	ppm	0.00
Spiked Amount 50.000			Recovery = 40.70%			
7) Nitrobenzene-d5	8.205	82	164537	20.35	ppm	0.00
Spiked Amount 50.000			Recovery = 40.70%			
15) 2-Fluorobiphenyl	11.756	172	344958	20.00	ppm	0.00
Spiked Amount 50.000			Recovery = 40.00%			
20) 2,4,6-Tribromophenol	14.639	330	56519	19.68	ppm	0.00
Spiked Amount 50.000			Recovery = 39.36%			
28) Terphenyl-d14	19.029	244	285010	20.00	ppm	0.00
Spiked Amount 50.000			Recovery = 40.00%			
Target Compounds						Qvalue
2) 1,4-dioxane	2.736	88	5732	0.78	ppm #	1
5) Phenol	6.627	94	45417	5.09	ppm #	68
6) bis(2-Chloroethyl)ether	6.772	93	7943	0.99	ppm	91
8) Nitrobenzene	8.243	77	8332	0.98	ppm	74
9) Naphthalene	9.617	128	31368	1.02	ppm	98
10) Hexachlorobutadiene	9.919	225	4960	1.02	ppm	79
11) 2-Methylnaphthalene	10.977	141	16196	0.98	ppm	87
12) 1-Methylnaphthalene	11.182	141	13827	0.99	ppm #	58
13) Hexachlorocyclopentadiene	11.346	237	7201	2.04	ppm	99
16) Acenaphthylene	12.751	152	27400	0.99	ppm	98
17) Acenaphthene	13.107	153	17497	1.00	ppm	78
18) 4,6-dinitro-2-methylph...	14.300	198	6340	5.00	ppm	89
19) Fluorene	14.149	166	17779	1.00	ppm	97
22) Hexachlorobenzene	15.272	284	6556	1.00	ppm	98
23) Pentachlorophenol	15.674	266	15830	5.18	ppm	91
24) Phenanthrene	16.045	178	28166	0.99	ppm	92
25) Anthracene	16.154	178	25387	1.00	ppm	94
26) Fluoranthene	18.287	202	26178	1.00	ppm	98
27) Pyrene	18.673	202	29156	1.00	ppm	96
29) Benzo[a]anthracene	20.728	228	25038	0.98	ppm	90
30) Chrysene	20.790	228	26686	0.95	ppm	99
32) Benzo[b]fluoranthene	22.398	252	30952m	0.94	ppm	
33) Benzo[k]fluoranthene	22.436	252	27300m	0.98	ppm	
34) Benzo[a]pyrene	22.850	252	23964	1.00	ppm	95
35) Indeno[1,2,3-cd]pyrene	24.448	276	29231	0.96	ppm	93
36) Dibenz[a,h]anthracene	24.486	278	23777	1.02	ppm	76
37) Benzo[g,h,i]perylene	24.881	276	27395	1.01	ppm	90

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\E3P2503\
Data File : 3p54955.D
Acq On : 6 Jul 2016 10:32 am
Operator : hankc
Sample : icc2503-1.0
Misc : op95179a,e3p2503
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 06 17:25:10 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3P2503SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Wed Jul 06 17:23:56 2016
Response via : Initial Calibration

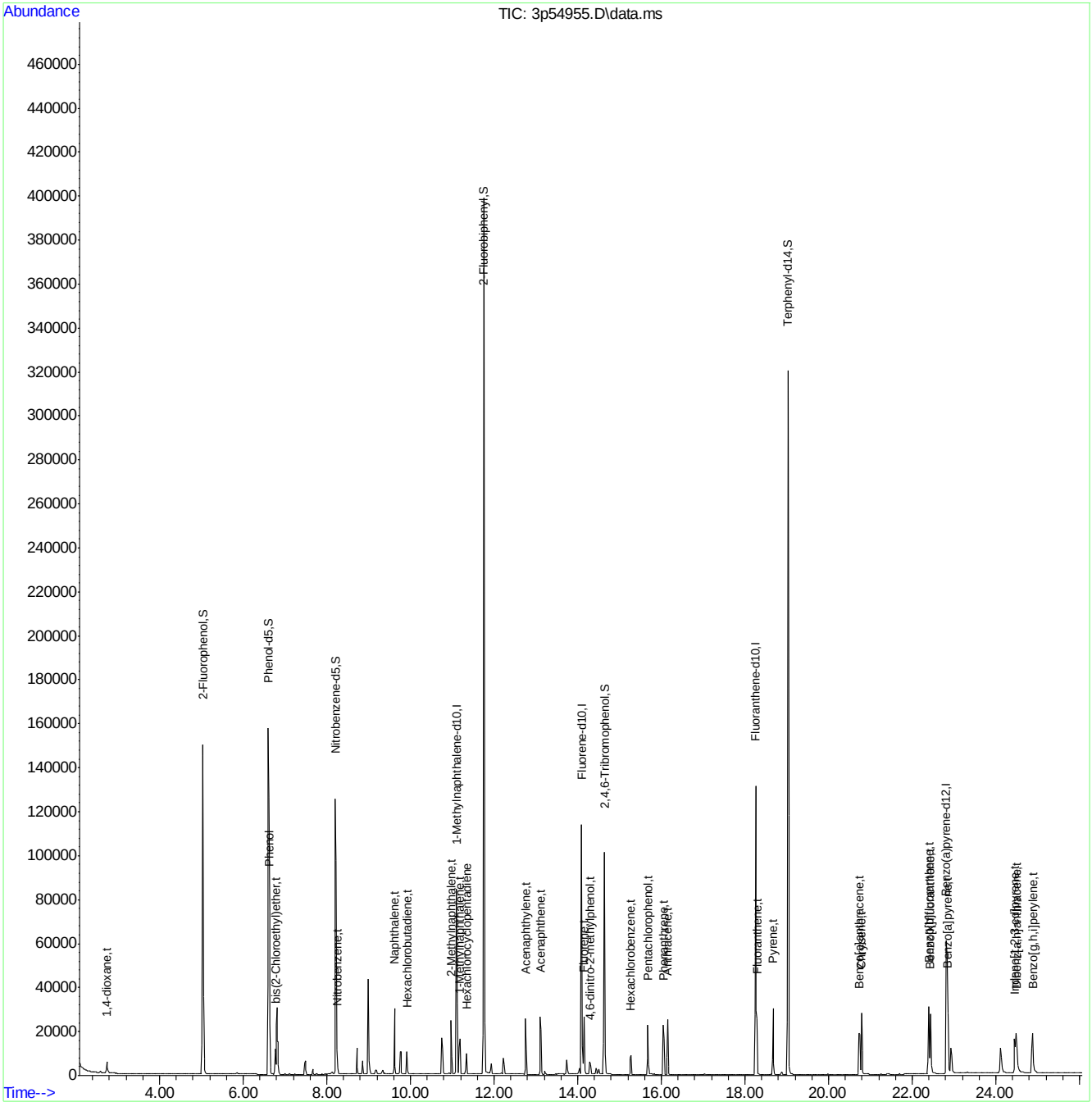
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\E3P2503\
Data File : 3p54955.D
Acq On : 6 Jul 2016 10:32 am
Operator : hankc
Sample : icc2503-1.0
Misc : op95179a,e3p2503
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 06 17:25:10 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3P2503SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Wed Jul 06 17:23:56 2016
Response via : Initial Calibration



M3P2503SIM.M Mon Jul 11 10:07:57 2016 Page: 3

Manual Integration Approval Summary

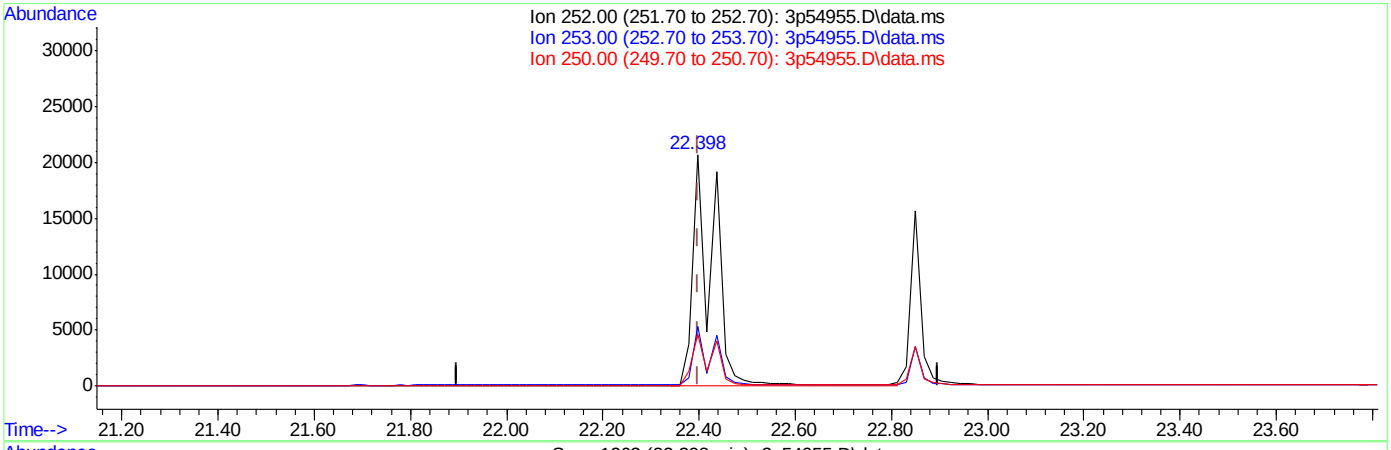
Sample Number:	E3P2503-ICC2503	**Method:**	SW846 8270D BY SIM
Lab FileID:	3P54955.D	**Analyst approved:**	07/11/16 10:13 Ashley Dye
Injection Time:	07/06/16 10:32	**Supervisor approved:**	07/11/16 10:45 Nina Pandya

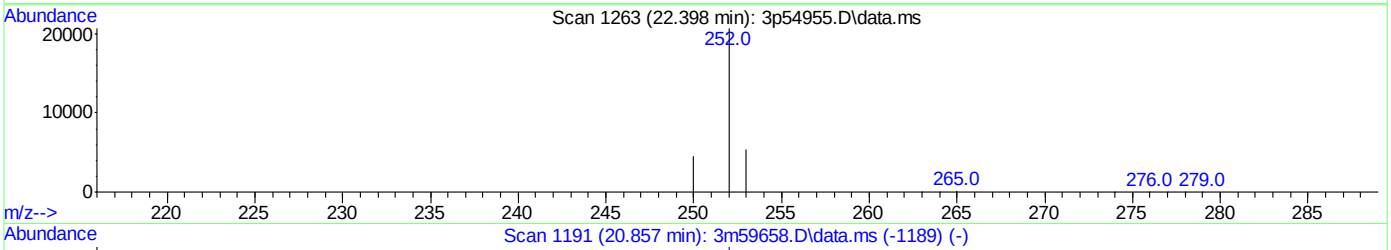
Parameter	CAS	Sig#	R.T. (min.)	Reason
Benzo(b)fluoranthene	205-99-2		22.40	Overlapping peak
Benzo(k)fluoranthene	207-08-9		22.44	Overlapping peak

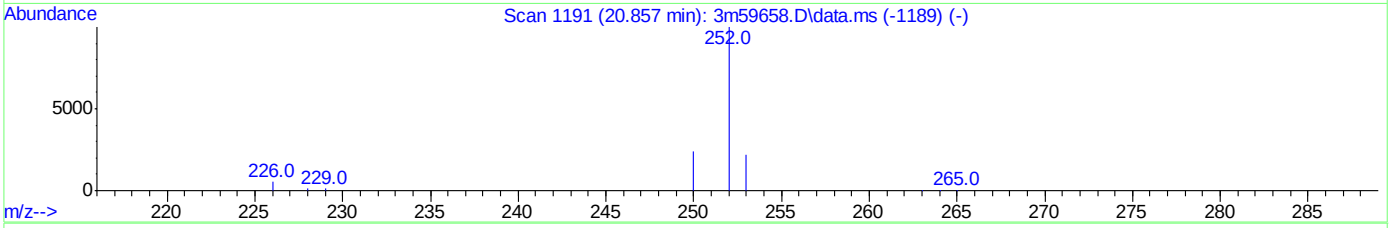
Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\E3P2503\
Data File : 3p54955.D
Acq On    :  6 Jul 2016  10:32 am
Operator  : hankc
Sample    : icc2503-1.0
Misc      : op94978,e3p2503
ALS Vial  : 2   Sample Multiplier: 1

Quant Time: Jul 06 17:24:53 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3P2503SIM.M
Quant Title  : Semi Volatile Extractables by GC/MS
QLast Update : Wed Jul 06 17:23:56 2016
Response via : Initial Calibration
```





TIC: 3p54955.D\data.ms

(32) Benzo[b]fluoranthene (t)

22.398min (0.000) 1.85ppm

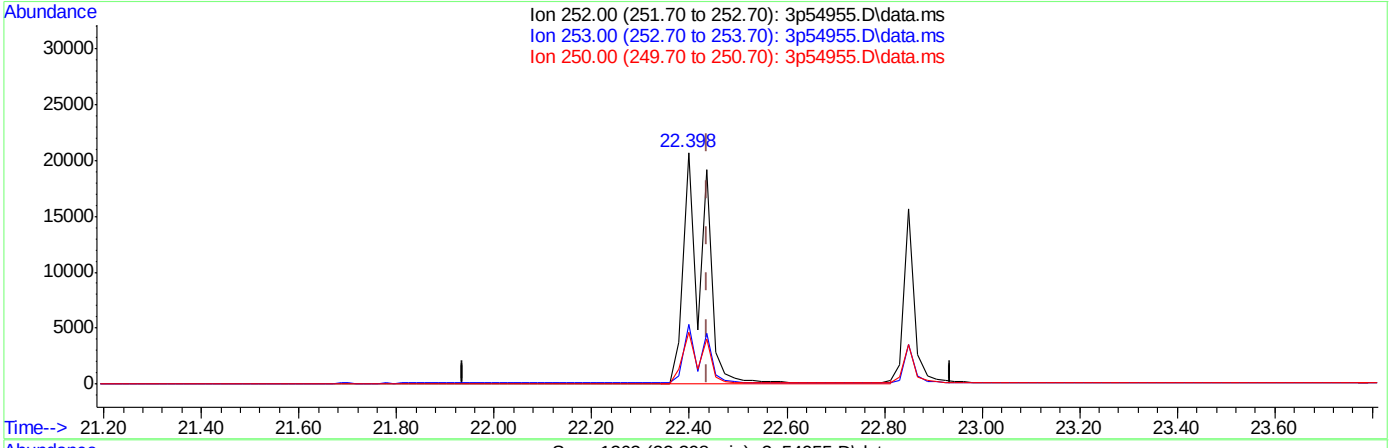
response 60924

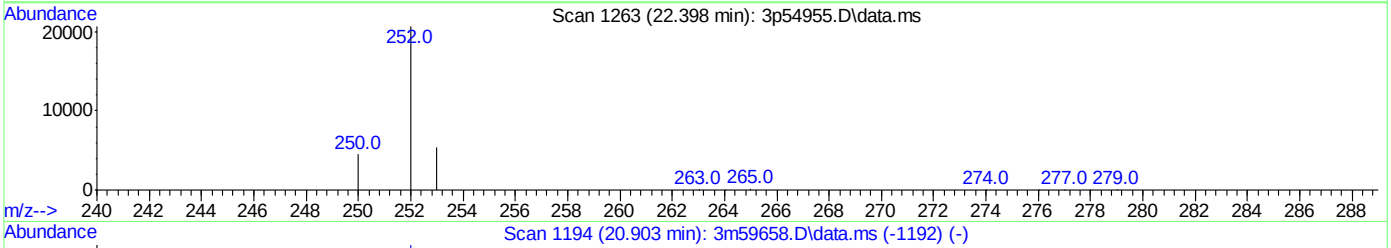
Ion	Exp%	Act%
252.00	100	100
253.00	23.60	25.36
250.00	23.10	21.99
0.00	0.00	0.00

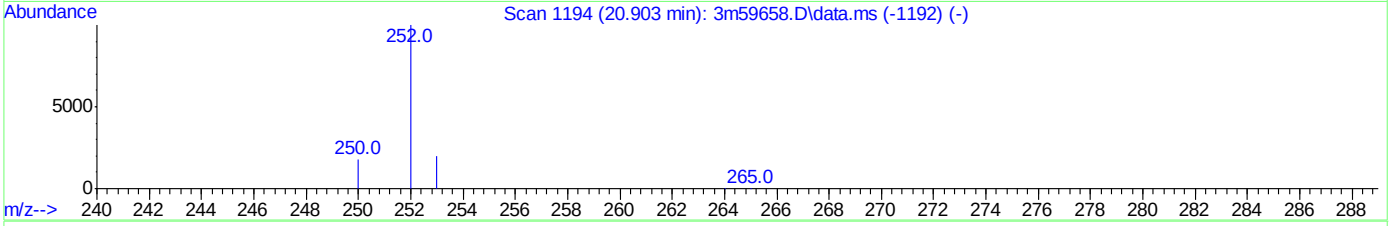
Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\E3P2503\
Data File : 3p54955.D
Acq On    :  6 Jul 2016  10:32 am
Operator  : hankc
Sample    : icc2503-1.0
Misc      : op94978,e3p2503
ALS Vial  : 2   Sample Multiplier: 1

Quant Time: Jul 06 17:24:53 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3P2503SIM.M
Quant Title  : Semi Volatile Extractables by GC/MS
QLast Update : Wed Jul 06 17:23:56 2016
Response via : Initial Calibration
```







TIC: 3p54955.D\data.ms

(33) Benzo[k]fluoranthene (t)

22.398min (-0.038) 2.19ppm

response 60924

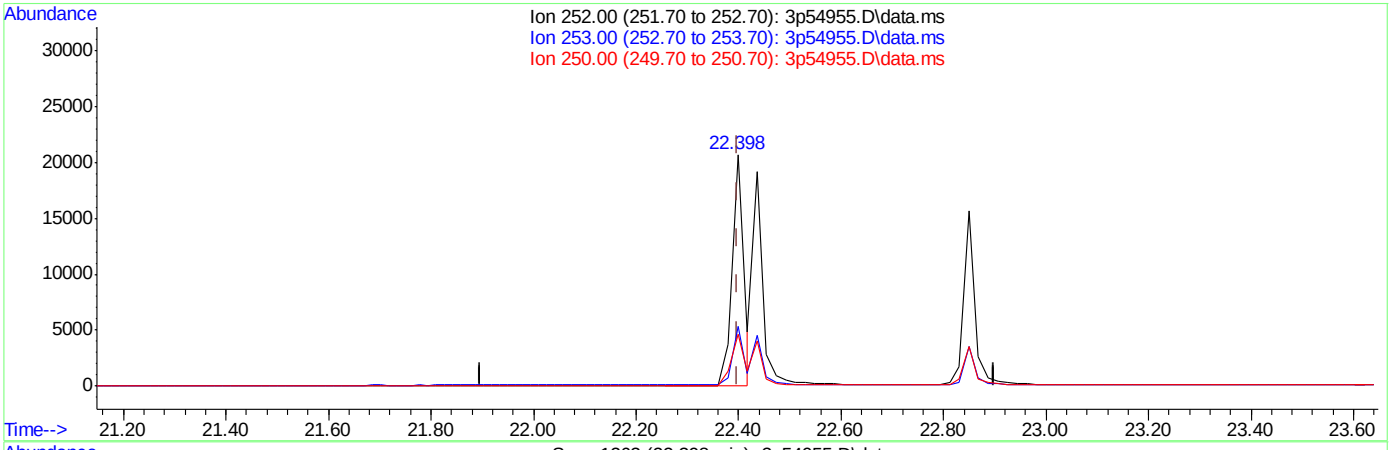
Ion	Exp%	Act%
252.00	100	100
253.00	23.60	25.36
250.00	23.10	21.99
0.00	0.00	0.00

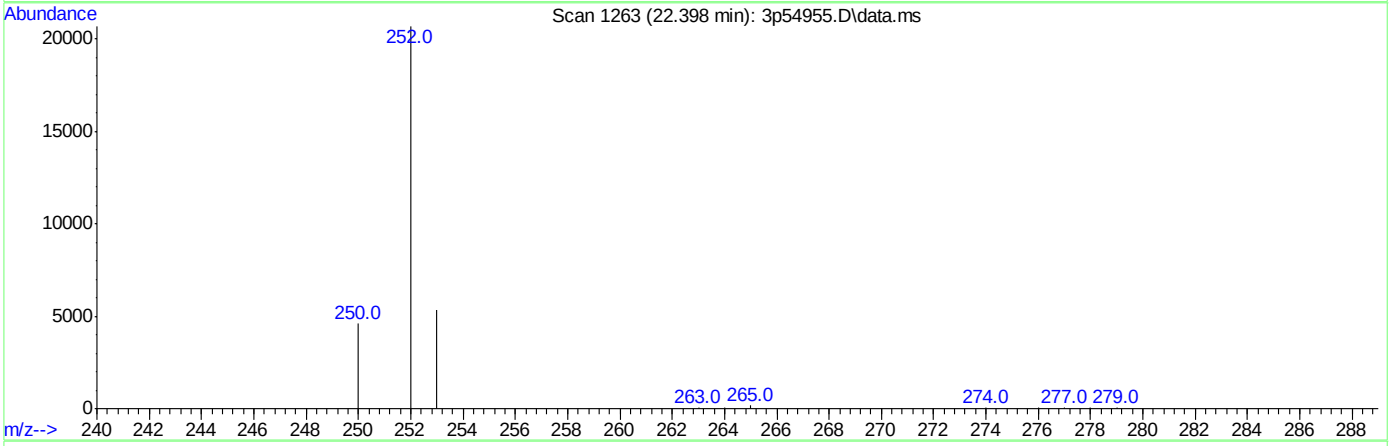
SGS ACCUTEST JC24978

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\E3P2503\
Data File : 3p54955.D
Acq On : 6 Jul 2016 10:32 am
Operator : hankc
Sample : icc2503-1.0
Misc : op95179a,e3p2503
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 06 17:25:10 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3P2503SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Wed Jul 06 17:23:56 2016
Response via : Initial Calibration





TIC: 3p54955.D\data.ms

(32) Benzo[b]fluoranthene (t)

22.398min (0.000) 0.94ppm m

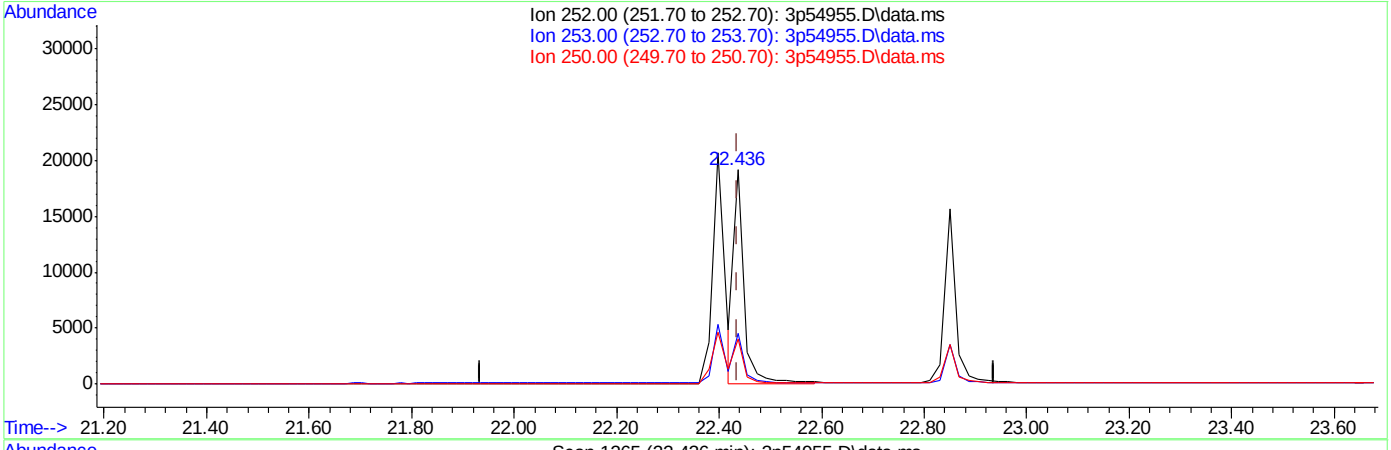
response 30952

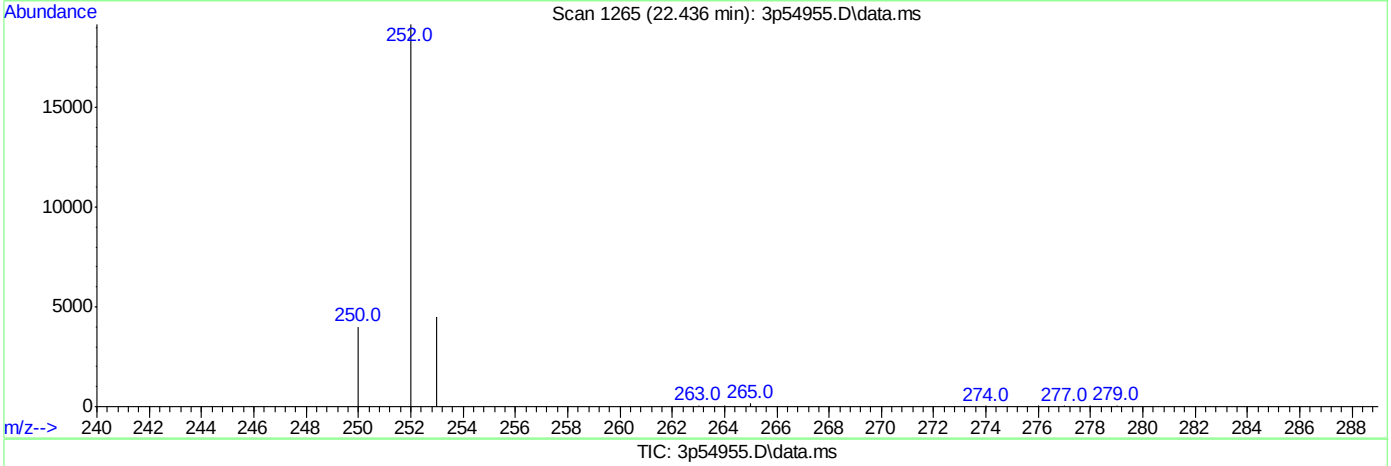
Ion	Exp%	Act%
252.00	100	100
253.00	23.60	25.77
250.00	23.10	22.24
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\E3P2503\
Data File : 3p54955.D
Acq On : 6 Jul 2016 10:32 am
Operator : hankc
Sample : icc2503-1.0
Misc : op95179a,e3p2503
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 06 17:25:10 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3P2503SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Wed Jul 06 17:23:56 2016
Response via : Initial Calibration





TIC: 3p54955.D\data.ms

(33) Benzo[k]fluoranthene (t)

22.436min (0.000) 0.98ppm m

response 27300

Ion	Exp%	Act%
252.00	100	100
253.00	23.60	23.48
250.00	23.10	20.89
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\E3P2503\
Data File : 3p54956.D
Acq On : 6 Jul 2016 11:26 am
Operator : hankc
Sample : ic2503-0.01
Misc : op95179a,e3p2503
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 06 17:26:39 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3P2503SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Wed Jul 06 17:25:20 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1-Methylnaphthalene-d10	11.100	150	79545	4.00 ppm	0.00
14) Fluorene-d10	14.093	176	120952	4.00 ppm	0.00
21) Fluoranthene-d10	18.256	212	177380	4.00 ppm	# 0.00
31) Benzo(a)pyrene-d12	22.831	264	143417	4.00 ppm	0.02
System Monitoring Compounds					
3) 2-Fluorophenol	5.038	112	2956	0.25 ppm	0.00
Spiked Amount 50.000			Recovery	= 0.50%	
4) Phenol-d5	6.602	99	4067	0.27 ppm	0.00
Spiked Amount 50.000			Recovery	= 0.54%	
7) Nitrobenzene-d5	8.205	82	3272	0.27 ppm	0.00
Spiked Amount 50.000			Recovery	= 0.54%	
15) 2-Fluorobiphenyl	11.756	172	6506	0.26 ppm	0.00
Spiked Amount 50.000			Recovery	= 0.52%	
20) 2,4,6-Tribromophenol	14.639	330	685	0.17 ppm	0.00
Spiked Amount 50.000			Recovery	= 0.34%	
28) Terphenyl-d14	19.029	244	4989	0.26 ppm	0.00
Spiked Amount 50.000			Recovery	= 0.52%	
Target Compounds					Qvalue
5) Phenol	6.627	94	1100	0.08 ppm	# 74
6) bis(2-Chloroethyl)ether	6.772	93	171	0.01 ppm	92
9) Naphthalene	9.617	128	584	0.01 ppm	98
11) 2-Methylnaphthalene	10.977	141	822	0.03 ppm	88
12) 1-Methylnaphthalene	11.182	141	249	0.01 ppm	# 66
13) Hexachlorocyclopentadiene	11.346	237	55	0.01 ppm	96
16) Acenaphthylene	12.751	152	434	0.01 ppm	99
17) Acenaphthene	13.107	153	301	0.01 ppm	79
18) 4,6-dinitro-2-methylph...	14.300	198	137	0.07 ppm	67
19) Fluorene	14.149	166	258	0.01 ppm	96
22) Hexachlorobenzene	15.272	284	101	0.01 ppm	99
23) Pentachlorophenol	15.674	266	544	0.13 ppm	98
24) Phenanthrene	16.045	178	465	0.01 ppm	93
25) Anthracene	16.154	178	405	0.01 ppm	94
26) Fluoranthene	18.287	202	485	0.01 ppm	99
27) Pyrene	18.673	202	436	0.01 ppm	97
29) Benzo[a]anthracene	20.744	228	406	0.01 ppm	92
30) Chrysene	20.790	228	418	0.01 ppm	99
32) Benzo[b]fluoranthene	22.398	252	640	0.01 ppm	99
33) Benzo[k]fluoranthene	22.436	252	580	0.01 ppm	94
35) Indeno[1,2,3-cd]pyrene	24.467	276	485	0.01 ppm	93
36) Dibenz[a,h]anthracene	24.505	278	351	0.01 ppm	54
37) Benzo[g,h,i]perylene	24.881	276	516	0.01 ppm	88

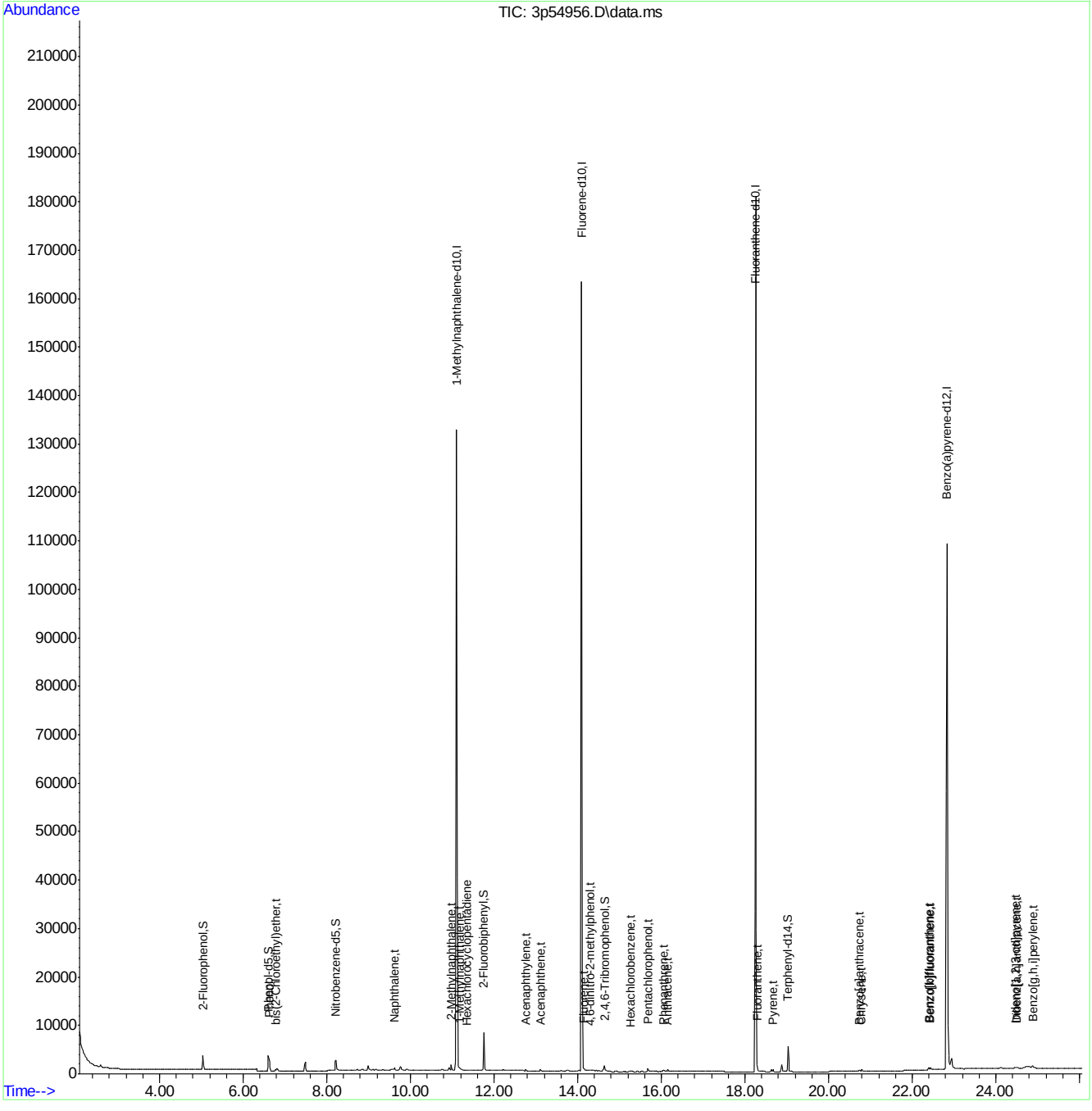
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC24978

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\E3P2503\
Data File : 3p54956.D
Acq On : 6 Jul 2016 11:26 am
Operator : hankc
Sample : ic2503-0.01
Misc : op95179a,e3p2503
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 06 17:26:39 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3P2503SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Wed Jul 06 17:25:20 2016
Response via : Initial Calibration



M3P2503SIM.M Mon Jul 11 10:08:04 2016 Page: 2

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\E3P2503\
Data File : 3p54957.D
Acq On : 6 Jul 2016 11:57 am
Operator : hankc
Sample : ic2503-0.02
Misc : op95179a,e3p2503
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jul 06 17:27:06 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3P2503SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Wed Jul 06 17:26:47 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	11.100	150	105023	4.00	ppm	# 0.00
14) Fluorene-d10	14.093	176	158303	4.00	ppm	0.00
21) Fluoranthene-d10	18.256	212	232382	4.00	ppm	# 0.00
31) Benzo(a)pyrene-d12	22.831	264	188456	4.00	ppm	0.00
System Monitoring Compounds						
3) 2-Fluorophenol	5.038	112	7602	0.49	ppm	0.00
Spiked Amount 50.000			Recovery	=	0.98%	
4) Phenol-d5	6.602	99	10549	0.53	ppm	0.00
Spiked Amount 50.000			Recovery	=	1.06%	
7) Nitrobenzene-d5	8.205	82	7872	0.50	ppm	0.00
Spiked Amount 50.000			Recovery	=	1.00%	
15) 2-Fluorobiphenyl	11.756	172	17810	0.47	ppm	0.00
Spiked Amount 50.000			Recovery	=	0.94%	
20) 2,4,6-Tribromophenol	14.639	330	1705	0.31	ppm	0.00
Spiked Amount 50.000			Recovery	=	0.62%	
28) Terphenyl-d14	19.028	244	13540	0.53	ppm	0.00
Spiked Amount 50.000			Recovery	=	1.06%	
Target Compounds						Qvalue
5) Phenol	6.627	94	2821	0.16	ppm	# 71
6) bis(2-Chloroethyl)ether	6.772	93	458	0.02	ppm	92
8) Nitrobenzene	8.243	77	497	0.03	ppm	69
9) Naphthalene	9.617	128	1533	0.02	ppm	96
10) Hexachlorobutadiene	9.919	225	310	0.03	ppm	85
11) 2-Methylnaphthalene	10.977	141	1456	0.05	ppm	93
12) 1-Methylnaphthalene	11.161	141	588	0.02	ppm	93
13) Hexachlorocyclopentadiene	11.346	237	123	0.02	ppm	96
16) Acenaphthylene	12.751	152	1107	0.02	ppm	97
17) Acenaphthene	13.107	153	741	0.02	ppm	82
18) 4,6-dinitro-2-methylph...	14.300	198	215	0.09	ppm	76
19) Fluorene	14.149	166	635	0.02	ppm	96
22) Hexachlorobenzene	15.257	284	279	0.02	ppm	72
23) Pentachlorophenol	15.674	266	757	0.13	ppm	96
24) Phenanthrene	16.045	178	1192	0.02	ppm	95
25) Anthracene	16.154	178	1040	0.02	ppm	93
26) Fluoranthene	18.287	202	1096	0.02	ppm	98
27) Pyrene	18.673	202	1039	0.02	ppm	96
29) Benzo[a]anthracene	20.744	228	877	0.02	ppm	95
30) Chrysene	20.790	228	998	0.02	ppm	98
32) Benzo[b]fluoranthene	22.398	252	1188	0.02	ppm	97
33) Benzo[k]fluoranthene	22.436	252	1064	0.02	ppm	95
35) Indeno[1,2,3-cd]pyrene	24.448	276	1060	0.02	ppm	91
36) Dibenz[a,h]anthracene	24.486	278	834	0.02	ppm	81
37) Benzo[g,h,i]perylene	24.881	276	1088	0.02	ppm	89

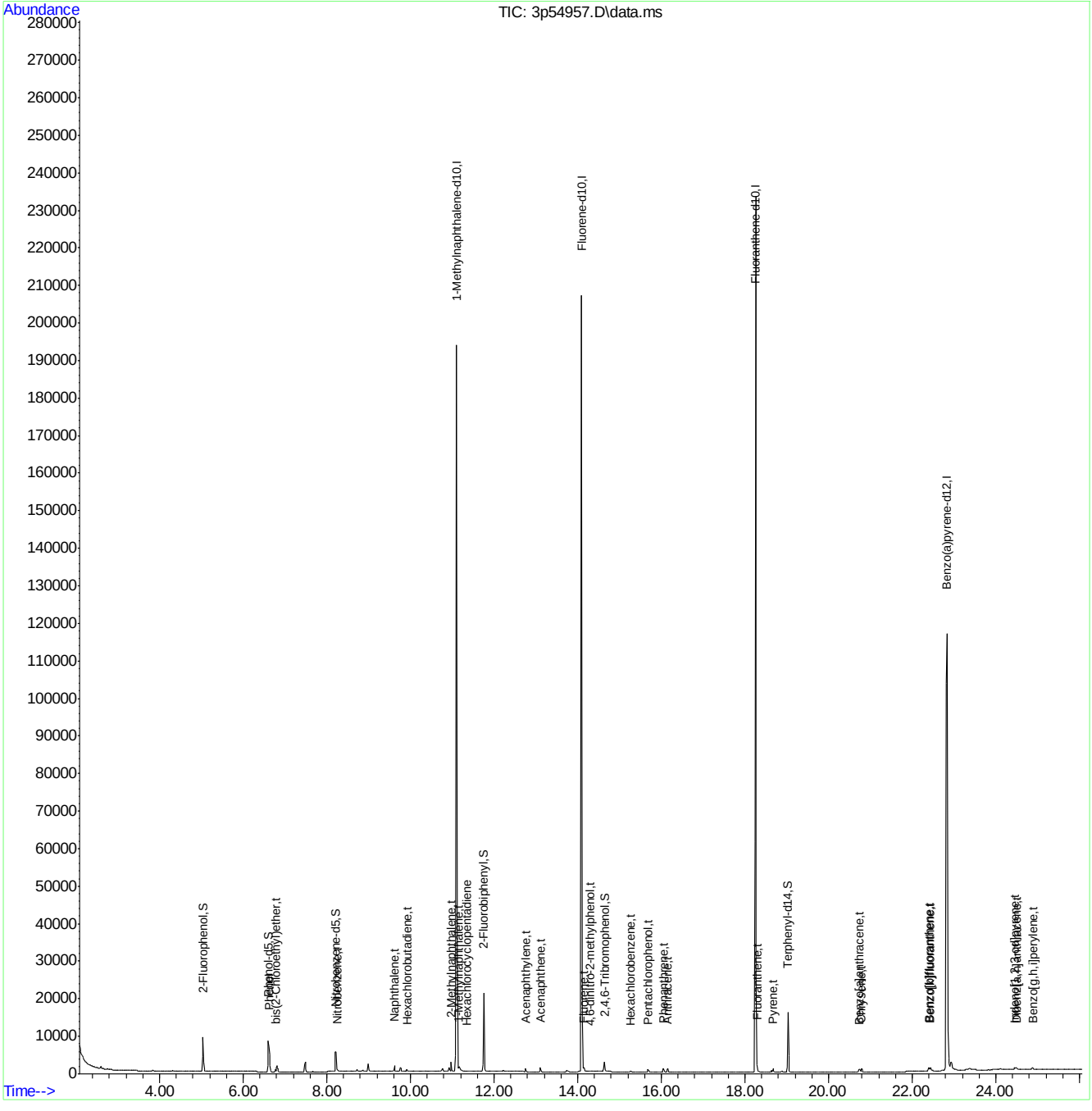
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC24978

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\E3P2503\
Data File : 3p54957.D
Acq On : 6 Jul 2016 11:57 am
Operator : hankc
Sample : ic2503-0.02
Misc : op95179a,e3p2503
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jul 06 17:27:06 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3P2503SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Wed Jul 06 17:26:47 2016
Response via : Initial Calibration



M3P2503SIM.M Mon Jul 11 10:08:12 2016 Page: 2

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\E3P2503\
Data File : 3p54958.D
Acq On : 6 Jul 2016 12:28 pm
Operator : hankc
Sample : ic2503-0.05
Misc : op95179a,e3p2503
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jul 06 17:33:36 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3P2503SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Wed Jul 06 17:33:16 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	11.100	150	95340	4.00	ppm	# 0.00
14) Fluorene-d10	14.093	176	145255	4.00	ppm	0.00
21) Fluoranthene-d10	18.256	212	211286	4.00	ppm	# 0.00
31) Benzo(a)pyrene-d12	22.831	264	168543	4.00	ppm	0.02
System Monitoring Compounds						
3) 2-Fluorophenol	5.039	112	17235	1.12	ppm	0.00
Spiked Amount 50.000			Recovery	=	2.24%	
4) Phenol-d5	6.603	99	23981	1.16	ppm	0.00
Spiked Amount 50.000			Recovery	=	2.32%	
7) Nitrobenzene-d5	8.205	82	17781	1.15	ppm	0.00
Spiked Amount 50.000			Recovery	=	2.30%	
15) 2-Fluorobiphenyl	11.756	172	39594	1.11	ppm	0.00
Spiked Amount 50.000			Recovery	=	2.22%	
20) 2,4,6-Tribromophenol	14.639	330	4068	0.89	ppm	0.00
Spiked Amount 50.000			Recovery	=	1.78%	
28) Terphenyl-d14	19.029	244	32347	1.23	ppm	0.00
Spiked Amount 50.000			Recovery	=	2.46%	
Target Compounds						Qvalue
2) 1,4-dioxane	2.752	88	702	0.07	ppm	70
5) Phenol	6.627	94	6117	0.20	ppm #	68
6) bis(2-Chloroethyl)ether	6.772	93	956	0.06	ppm	93
8) Nitrobenzene	8.243	77	1196	0.07	ppm	74
9) Naphthalene	9.618	128	3398	0.05	ppm	96
10) Hexachlorobutadiene	9.919	225	611	0.06	ppm	87
11) 2-Methylnaphthalene	10.977	141	2171	0.06	ppm	92
12) 1-Methylnaphthalene	11.162	141	1318	0.05	ppm	95
13) Hexachlorocyclopentadiene	11.346	237	348	0.19	ppm	94
16) Acenaphthylene	12.751	152	2693	0.05	ppm	97
17) Acenaphthene	13.107	153	1712	0.05	ppm	83
18) 4,6-dinitro-2-methylph...	14.300	198	328	0.69	ppm	83
19) Fluorene	14.149	166	1449	0.05	ppm	93
22) Hexachlorobenzene	15.257	284	620	0.05	ppm	74
23) Pentachlorophenol	15.674	266	997	0.45	ppm	99
24) Phenanthrene	16.046	178	2689	0.05	ppm	95
25) Anthracene	16.154	178	2314	0.06	ppm	92
26) Fluoranthene	18.287	202	2061	0.05	ppm	98
27) Pyrene	18.673	202	2349	0.05	ppm	93
29) Benzo[a]anthracene	20.728	228	1975	0.05	ppm	91
30) Chrysene	20.790	228	2524	0.06	ppm	99
32) Benzo[b]fluoranthene	22.398	252	2577	0.05	ppm	97
33) Benzo[k]fluoranthene	22.436	252	2325	0.05	ppm	95
34) Benzo[a]pyrene	22.850	252	2489	0.06	ppm	94
35) Indeno[1,2,3-cd]pyrene	24.448	276	2281	0.05	ppm	93
36) Dibenz[a,h]anthracene	24.486	278	1819	0.05	ppm	81
37) Benzo[g,h,i]perylene	24.881	276	2387	0.05	ppm	90

SGS ACCUTEST JC24978

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\E3P2503\
Data File : 3p54958.D
Acq On : 6 Jul 2016 12:28 pm
Operator : hankc
Sample : ic2503-0.05
Misc : op95179a,e3p2503
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jul 06 17:33:36 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3P2503SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Wed Jul 06 17:33:16 2016
Response via : Initial Calibration

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

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

7.6.45

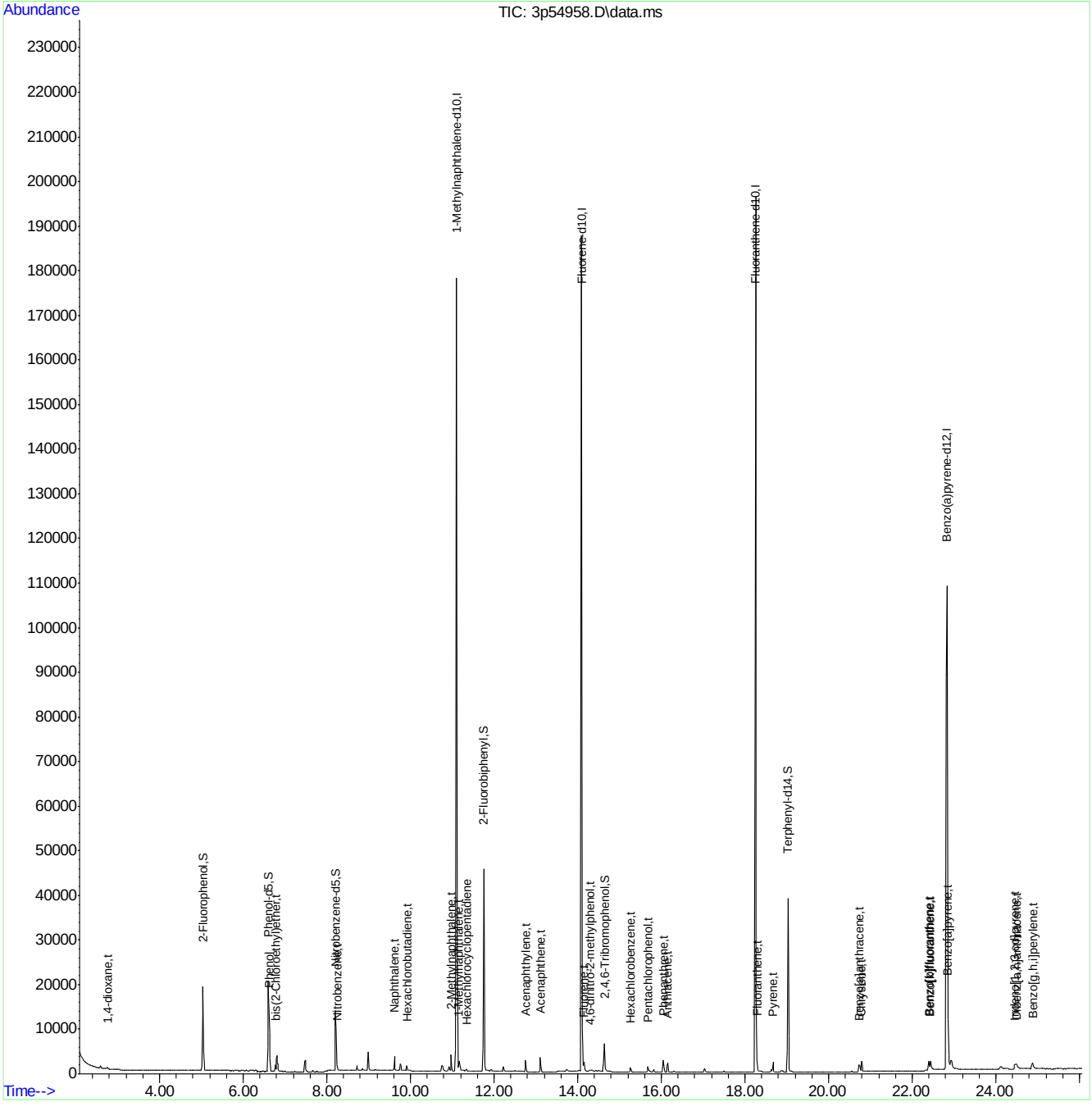
7

SGS ACCUTEST JC24978

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\E3P2503\
Data File : 3p54958.D
Acq On : 6 Jul 2016 12:28 pm
Operator : hankc
Sample : ic2503-0.05
Misc : op95179a,e3p2503
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jul 06 17:33:36 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3P2503SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Wed Jul 06 17:33:16 2016
Response via : Initial Calibration



SGS ACCUTEST JC24978

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\E3P2503\
Data File : 3p54959.D
Acq On : 6 Jul 2016 12:59 pm
Operator : hankc
Sample : ic2503-0.1
Misc : op95179a,e3p2503
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jul 06 17:28:10 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3P2503SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Wed Jul 06 17:27:37 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	11.100	150	80575	4.00	ppm	# 0.00
14) Fluorene-d10	14.093	176	123488	4.00	ppm	0.00
21) Fluoranthene-d10	18.256	212	180618	4.00	ppm	# 0.00
31) Benzo(a)pyrene-d12	22.812	264	137267	4.00	ppm	-0.02
System Monitoring Compounds						
3) 2-Fluorophenol	5.038	112	28500	2.14	ppm	0.00
Spiked Amount 50.000			Recovery	=	4.28%	
4) Phenol-d5	6.602	99	39059	2.20	ppm	0.00
Spiked Amount 50.000			Recovery	=	4.40%	
7) Nitrobenzene-d5	8.205	82	28853	2.12	ppm	0.00
Spiked Amount 50.000			Recovery	=	4.24%	
15) 2-Fluorobiphenyl	11.756	172	65085	2.04	ppm	0.00
Spiked Amount 50.000			Recovery	=	4.08%	
20) 2,4,6-Tribromophenol	14.639	330	7100	1.68	ppm	0.00
Spiked Amount 50.000			Recovery	=	3.36%	
28) Terphenyl-d14	19.028	244	52972	2.67	ppm	0.00
Spiked Amount 50.000			Recovery	=	5.34%	
Target Compounds						Qvalue
2) 1,4-dioxane	2.751	88	847	0.10	ppm	67
5) Phenol	6.627	94	9704	0.52	ppm #	67
6) bis(2-Chloroethyl)ether	6.772	93	1520	0.10	ppm	92
8) Nitrobenzene	8.243	77	1684	0.10	ppm	71
9) Naphthalene	9.617	128	5473	0.10	ppm	97
10) Hexachlorobutadiene	9.919	225	941	0.10	ppm	85
11) 2-Methylnaphthalene	10.977	141	2843	0.09	ppm	92
12) 1-Methylnaphthalene	11.161	141	2204	0.10	ppm	92
13) Hexachlorocyclopentadiene	11.346	237	681	0.13	ppm	96
16) Acenaphthylene	12.751	152	4073	0.09	ppm	97
17) Acenaphthene	13.107	153	2759	0.10	ppm	81
18) 4,6-dinitro-2-methylph...	14.300	198	425	0.22	ppm	88
19) Fluorene	14.149	166	2457	0.10	ppm	94
22) Hexachlorobenzene	15.257	284	1013	0.10	ppm	73
23) Pentachlorophenol	15.674	266	1274	0.33	ppm	99
24) Phenanthrene	16.045	178	4363	0.10	ppm	95
25) Anthracene	16.154	178	3806	0.11	ppm	92
26) Fluoranthene	18.287	202	3534	0.10	ppm	97
27) Pyrene	18.673	202	3868	0.10	ppm	94
29) Benzo[a]anthracene	20.728	228	3076	0.09	ppm	90
30) Chrysene	20.790	228	4050	0.10	ppm	100
32) Benzo[b]fluoranthene	22.398	252	4191	0.10	ppm	97
33) Benzo[k]fluoranthene	22.436	252	3842	0.10	ppm	96
34) Benzo[a]pyrene	22.849	252	3699	0.10	ppm	94
35) Indeno[1,2,3-cd]pyrene	24.448	276	3512	0.08	ppm	93
36) Dibenz[a,h]anthracene	24.486	278	2784	0.08	ppm	83
37) Benzo[g,h,i]perylene	24.881	276	3878	0.10	ppm	91

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\E3P2503\
Data File : 3p54959.D
Acq On : 6 Jul 2016 12:59 pm
Operator : hankc
Sample : ic2503-0.1
Misc : op95179a,e3p2503
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jul 06 17:28:10 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3P2503SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Wed Jul 06 17:27:37 2016
Response via : Initial Calibration

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

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

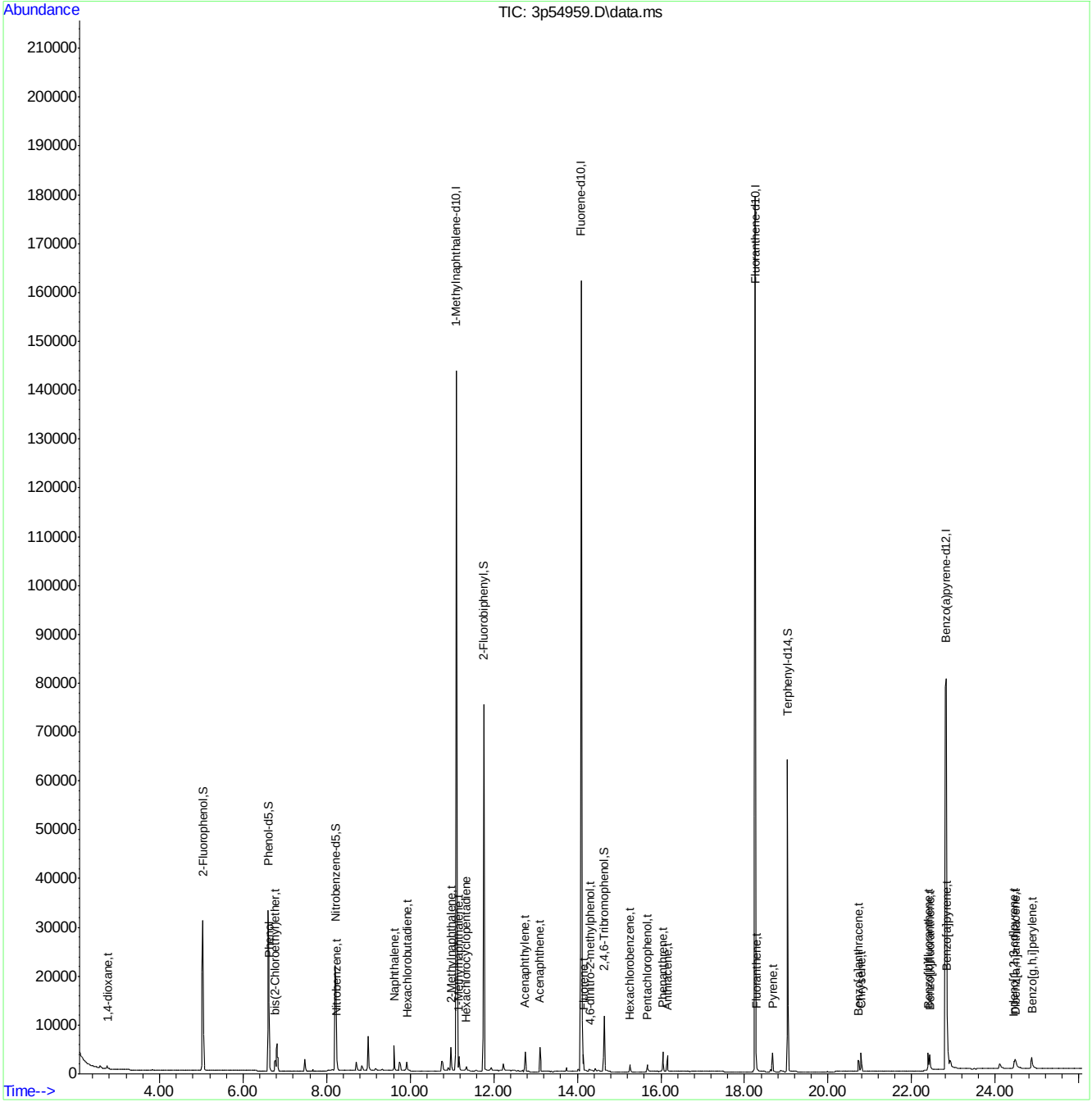
7.6.46

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\E3P2503\
Data File : 3p54959.D
Acq On : 6 Jul 2016 12:59 pm
Operator : hankc
Sample : ic2503-0.1
Misc : op95179a,e3p2503
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jul 06 17:28:10 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3P2503SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Wed Jul 06 17:27:37 2016
Response via : Initial Calibration



SGS ACCUTEST JC24978

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\E3P2503\
Data File : 3p54960.D
Acq On : 6 Jul 2016 1:30 pm
Operator : hankc
Sample : ic2503-0.2
Misc : op95179a,e3p2503
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jul 06 17:28:40 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3P2503SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Wed Jul 06 17:28:34 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1-Methylnaphthalene-d10	11.100	150	66048	4.00 ppm	# 0.00
14) Fluorene-d10	14.093	176	99585	4.00 ppm	0.00
21) Fluoranthene-d10	18.256	212	147162	4.00 ppm	# 0.00
31) Benzo(a)pyrene-d12	22.831	264	109620	4.00 ppm	0.02
System Monitoring Compounds					
3) 2-Fluorophenol	5.038	112	50614	4.54 ppm	0.00
Spiked Amount 50.000			Recovery	= 9.08%	
4) Phenol-d5	6.602	99	67367	4.48 ppm	0.00
Spiked Amount 50.000			Recovery	= 8.96%	
7) Nitrobenzene-d5	8.205	82	50923	4.48 ppm	0.00
Spiked Amount 50.000			Recovery	= 8.96%	
15) 2-Fluorobiphenyl	11.756	172	113318	4.39 ppm	0.00
Spiked Amount 50.000			Recovery	= 8.78%	
20) 2,4,6-Tribromophenol	14.639	330	13649	4.01 ppm	0.00
Spiked Amount 50.000			Recovery	= 8.02%	
28) Terphenyl-d14	19.029	244	90856	4.82 ppm	0.00
Spiked Amount 50.000			Recovery	= 9.64%	
Target Compounds					Qvalue
2) 1,4-dioxane	2.736	88	1458	0.21 ppm	# 1
5) Phenol	6.627	94	16041	1.04 ppm	# 65
6) bis(2-Chloroethyl)ether	6.772	93	2522	0.20 ppm	90
8) Nitrobenzene	8.243	77	3042	0.22 ppm	75
9) Naphthalene	9.617	128	9348	0.21 ppm	96
10) Hexachlorobutadiene	9.919	225	1571	0.20 ppm	86
11) 2-Methylnaphthalene	10.977	141	5404	0.22 ppm	94
12) 1-Methylnaphthalene	11.161	141	4002	0.22 ppm	95
13) Hexachlorocyclopentadiene	11.346	237	1351	0.38 ppm	96
16) Acenaphthylene	12.751	152	7514	0.22 ppm	97
17) Acenaphthene	13.107	153	4798	0.21 ppm	83
18) 4,6-dinitro-2-methylph...	14.300	198	1203	1.09 ppm	83
19) Fluorene	14.149	166	4529	0.22 ppm	93
22) Hexachlorobenzene	15.257	284	1819	0.22 ppm	73
23) Pentachlorophenol	15.674	266	2921	1.04 ppm	95
24) Phenanthrene	16.045	178	7748	0.22 ppm	95
25) Anthracene	16.154	178	6641	0.22 ppm	92
26) Fluoranthene	18.287	202	6405	0.22 ppm	96
27) Pyrene	18.673	202	7087	0.22 ppm	95
29) Benzo[a]anthracene	20.744	228	5395	0.20 ppm	93
30) Chrysene	20.790	228	6901	0.21 ppm	99
32) Benzo[b]fluoranthene	22.398	252	6998	0.20 ppm	97
33) Benzo[k]fluoranthene	22.436	252	6625	0.21 ppm	96
34) Benzo[a]pyrene	22.850	252	6076	0.20 ppm	95
35) Indeno[1,2,3-cd]pyrene	24.448	276	6396	0.21 ppm	92
36) Dibenz[a,h]anthracene	24.486	278	5103	0.21 ppm	83
37) Benzo[g,h,i]perylene	24.881	276	6671	0.21 ppm	89

SGS ACCUTEST JC24978

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\E3P2503\
Data File : 3p54960.D
Acq On : 6 Jul 2016 1:30 pm
Operator : hankc
Sample : ic2503-0.2
Misc : op95179a,e3p2503
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jul 06 17:28:40 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3P2503SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Wed Jul 06 17:28:34 2016
Response via : Initial Calibration

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

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

7.6.47

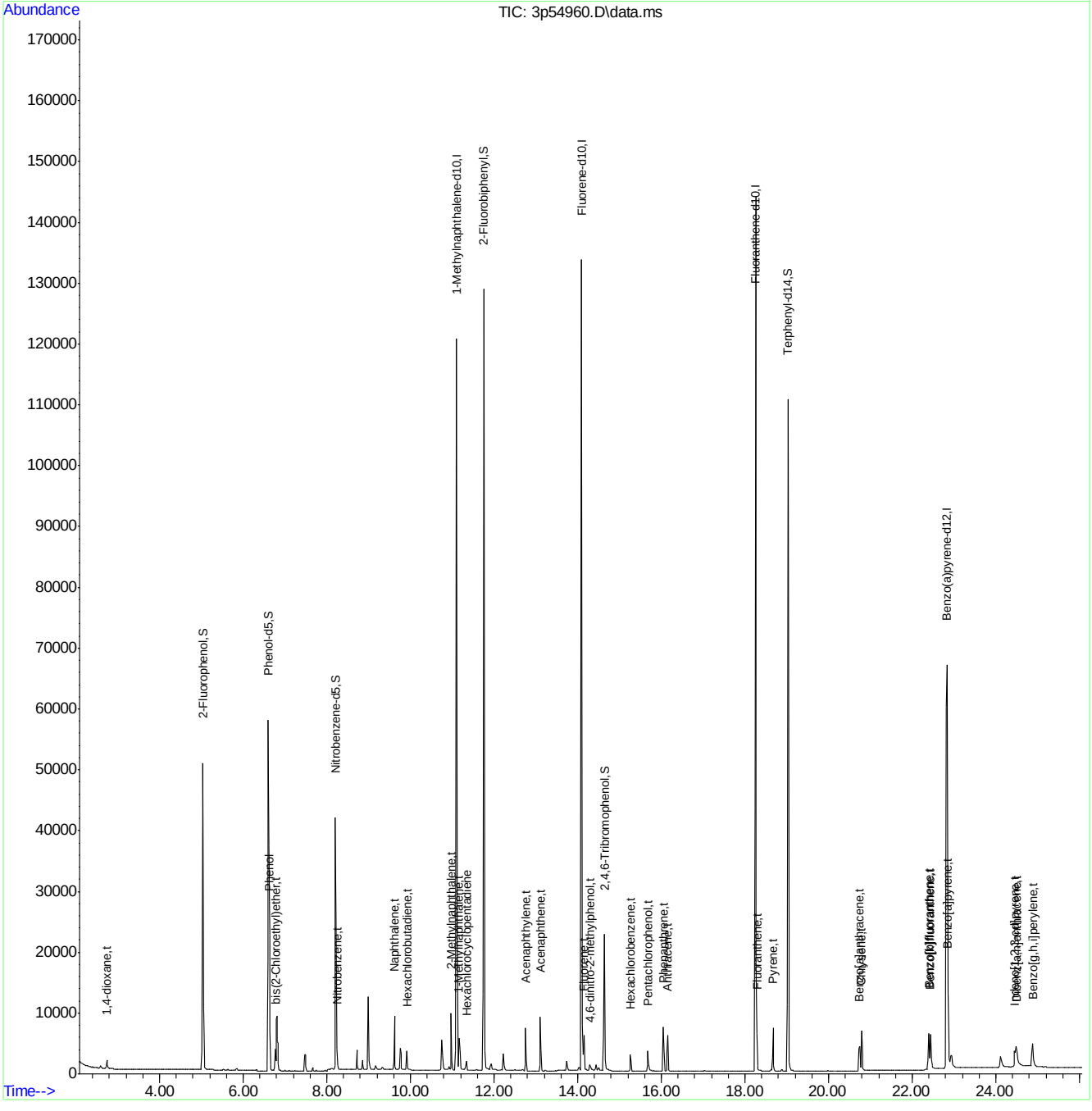
7

SGS ACCUTEST JC24978

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\E3P2503\
Data File : 3p54960.D
Acq On : 6 Jul 2016 1:30 pm
Operator : hankc
Sample : ic2503-0.2
Misc : op95179a,e3p2503
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jul 06 17:28:40 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3P2503SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Wed Jul 06 17:28:34 2016
Response via : Initial Calibration



M3P2503SIM.M Mon Jul 11 10:08:37 2016 Page: 3

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\E3P2503\
Data File : 3p54961.D
Acq On : 6 Jul 2016 2:02 pm
Operator : hankc
Sample : ic2503-5
Misc : op95179a,e3p2503
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jul 06 17:29:12 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3P2503SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Wed Jul 06 17:29:04 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	11.100	150	61525	4.00	ppm	0.00
14) Fluorene-d10	14.092	176	106137	4.00	ppm	0.00
21) Fluoranthene-d10	18.256	212	179159	4.00	ppm	# 0.00
31) Benzo(a)pyrene-d12	22.831	264	120627	4.00	ppm	0.00
System Monitoring Compounds						
3) 2-Fluorophenol	5.038	112	647516	60.28	ppm	0.00
Spiked Amount 50.000			Recovery = 120.56%			
4) Phenol-d5	6.627	99	895989	62.13	ppm	0.02
Spiked Amount 50.000			Recovery = 124.26%			
7) Nitrobenzene-d5	8.224	82	800055	73.32	ppm	0.02
Spiked Amount 50.000			Recovery = 146.64%			
15) 2-Fluorobiphenyl	11.756	172	1343229	48.07	ppm	0.00
Spiked Amount 50.000			Recovery = 96.14%			
20) 2,4,6-Tribromophenol	14.639	330	249435	68.65	ppm	0.00
Spiked Amount 50.000			Recovery = 137.30%			
28) Terphenyl-d14	19.044	244	1032408	42.09	ppm	0.02
Spiked Amount 50.000			Recovery = 84.18%			
Target Compounds						Qvalue
2) 1,4-dioxane	2.736	88	31180	4.74	ppm	# 49
5) Phenol	6.639	94	210004	14.51	ppm	# 79
6) bis(2-Chloroethyl)ether	6.772	93	46583	3.92	ppm	82
8) Nitrobenzene	8.243	77	41778	3.14	ppm	# 55
9) Naphthalene	9.617	128	182708	4.30	ppm	94
10) Hexachlorobutadiene	9.919	225	29671	4.00	ppm	86
11) 2-Methylnaphthalene	10.977	141	94727	4.07	ppm	97
12) 1-Methylnaphthalene	11.161	141	83239	4.78	ppm	96
13) Hexachlorocyclopentadiene	11.346	237	54397	16.63	ppm	96
16) Acenaphthylene	12.751	152	183790	4.92	ppm	93
17) Acenaphthene	13.107	153	101699	4.12	ppm	88
18) 4,6-dinitro-2-methylph...	14.300	198	87912	72.42	ppm	84
19) Fluorene	14.149	166	114988	5.18	ppm	90
22) Hexachlorobenzene	15.257	284	41582	4.05	ppm	72
23) Pentachlorophenol	15.674	266	118085	34.14	ppm	82
24) Phenanthrene	16.045	178	170430	3.90	ppm	97
25) Anthracene	16.154	178	152857	4.05	ppm	90
26) Fluoranthene	18.287	202	171110	4.72	ppm	94
27) Pyrene	18.673	202	190448	4.71	ppm	91
29) Benzo[a]anthracene	20.743	228	174583	5.31	ppm	89
30) Chrysene	20.790	228	157584	3.90	ppm	97
32) Benzo[b]fluoranthene	22.398	252	215963	5.68	ppm	92
33) Benzo[k]fluoranthene	22.436	252	159024	4.57	ppm	97
34) Benzo[a]pyrene	22.849	252	153670	4.67	ppm	96
35) Indeno[1,2,3-cd]pyrene	24.448	276	183558	5.37	ppm	93
36) Dibenz[a,h]anthracene	24.486	278	131921	4.81	ppm	54
37) Benzo[g,h,i]perylene	24.881	276	166794	4.76	ppm	89

SGS ACCUTEST JC24978

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\E3P2503\
Data File : 3p54961.D
Acq On : 6 Jul 2016 2:02 pm
Operator : hankc
Sample : ic2503-5
Misc : op95179a,e3p2503
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jul 06 17:29:12 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3P2503SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Wed Jul 06 17:29:04 2016
Response via : Initial Calibration

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

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

7.6.48

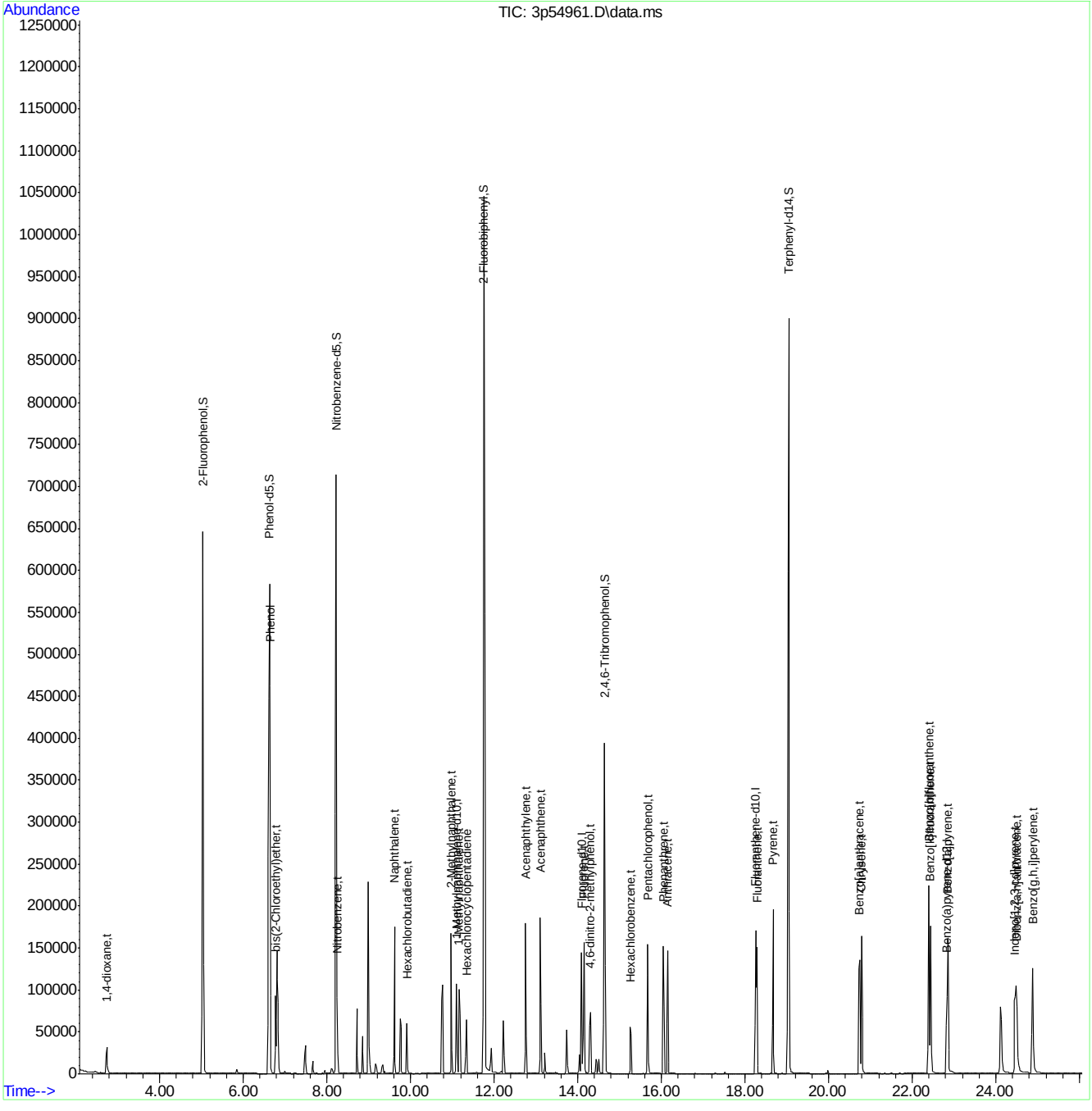
7

SGS ACCUTEST JC24978

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\E3P2503\
Data File : 3p54961.D
Acq On : 6 Jul 2016 2:02 pm
Operator : hankc
Sample : ic2503-5
Misc : op95179a,e3p2503
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jul 06 17:29:12 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3P2503SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Wed Jul 06 17:29:04 2016
Response via : Initial Calibration



SGS ACCUTEST JC24978

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\E3P2503\
Data File : 3p54962.D
Acq On : 6 Jul 2016 2:33 pm
Operator : hankc
Sample : ic2503-2.5
Misc : op95179a,e3p2503
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jul 06 17:29:34 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3P2503SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Wed Jul 06 17:29:28 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	11.100	150	58818	4.00	ppm	# 0.00
14) Fluorene-d10	14.092	176	97541	4.00	ppm	0.00
21) Fluoranthene-d10	18.256	212	156559	4.00	ppm	# 0.00
31) Benzo(a)pyrene-d12	22.812	264	110080	4.00	ppm	-0.02
System Monitoring Compounds						
3) 2-Fluorophenol	5.038	112	376140	39.79	ppm	0.00
Spiked Amount 50.000			Recovery = 79.58%			
4) Phenol-d5	6.614	99	493254	38.71	ppm	-0.01
Spiked Amount 50.000			Recovery = 77.42%			
7) Nitrobenzene-d5	8.205	82	412360	41.76	ppm	-0.02
Spiked Amount 50.000			Recovery = 83.52%			
15) 2-Fluorobiphenyl	11.756	172	773441	30.12	ppm	0.00
Spiked Amount 50.000			Recovery = 60.24%			
20) 2,4,6-Tribromophenol	14.639	330	152849	51.12	ppm	0.00
Spiked Amount 50.000			Recovery = 102.24%			
28) Terphenyl-d14	19.028	244	672834	36.70	ppm	-0.02
Spiked Amount 50.000			Recovery = 73.40%			
Target Compounds						Qvalue
2) 1,4-dioxane	2.736	88	14051	2.26	ppm	# 49
5) Phenol	6.627	94	109670	8.52	ppm	# 76
6) bis(2-Chloroethyl)ether	6.772	93	21874	1.99	ppm	89
8) Nitrobenzene	8.243	77	21431	1.80	ppm	75
9) Naphthalene	9.617	128	89873	2.26	ppm	94
10) Hexachlorobutadiene	9.919	225	14342	2.09	ppm	87
11) 2-Methylnaphthalene	10.977	141	48722	2.27	ppm	98
12) 1-Methylnaphthalene	11.161	141	40943	2.47	ppm	98
13) Hexachlorocyclopentadiene	11.346	237	22911	6.28	ppm	95
16) Acenaphthylene	12.751	152	86595	2.53	ppm	94
17) Acenaphthene	13.107	153	49818	2.25	ppm	86
18) 4,6-dinitro-2-methylph...	14.300	198	29862	18.16	ppm	80
19) Fluorene	14.149	166	52810	2.58	ppm	91
22) Hexachlorobenzene	15.257	284	19891	2.28	ppm	74
23) Pentachlorophenol	15.659	266	51486	15.87	ppm	86
24) Phenanthrene	16.045	178	83690	2.29	ppm	98
25) Anthracene	16.154	178	71928	2.29	ppm	90
26) Fluoranthene	18.287	202	80300	2.56	ppm	95
27) Pyrene	18.673	202	90291	2.59	ppm	92
29) Benzo[a]anthracene	20.728	228	76512	2.63	ppm	91
30) Chrysene	20.790	228	76758	2.27	ppm	98
32) Benzo[b]fluoranthene	22.398	252	97027	2.70	ppm	93
33) Benzo[k]fluoranthene	22.436	252	74773	2.41	ppm	96
34) Benzo[a]pyrene	22.849	252	68723	2.29	ppm	95
35) Indeno[1,2,3-cd]pyrene	24.448	276	82881	2.61	ppm	93
36) Dibenz[a,h]anthracene	24.486	278	57958	2.34	ppm	52
37) Benzo[g,h,i]perylene	24.881	276	76272	2.42	ppm	89

SGS ACCUTEST JC24978

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\E3P2503\
Data File : 3p54962.D
Acq On : 6 Jul 2016 2:33 pm
Operator : hankc
Sample : ic2503-2.5
Misc : op95179a,e3p2503
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jul 06 17:29:34 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3P2503SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Wed Jul 06 17:29:28 2016
Response via : Initial Calibration

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

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

7.6.49

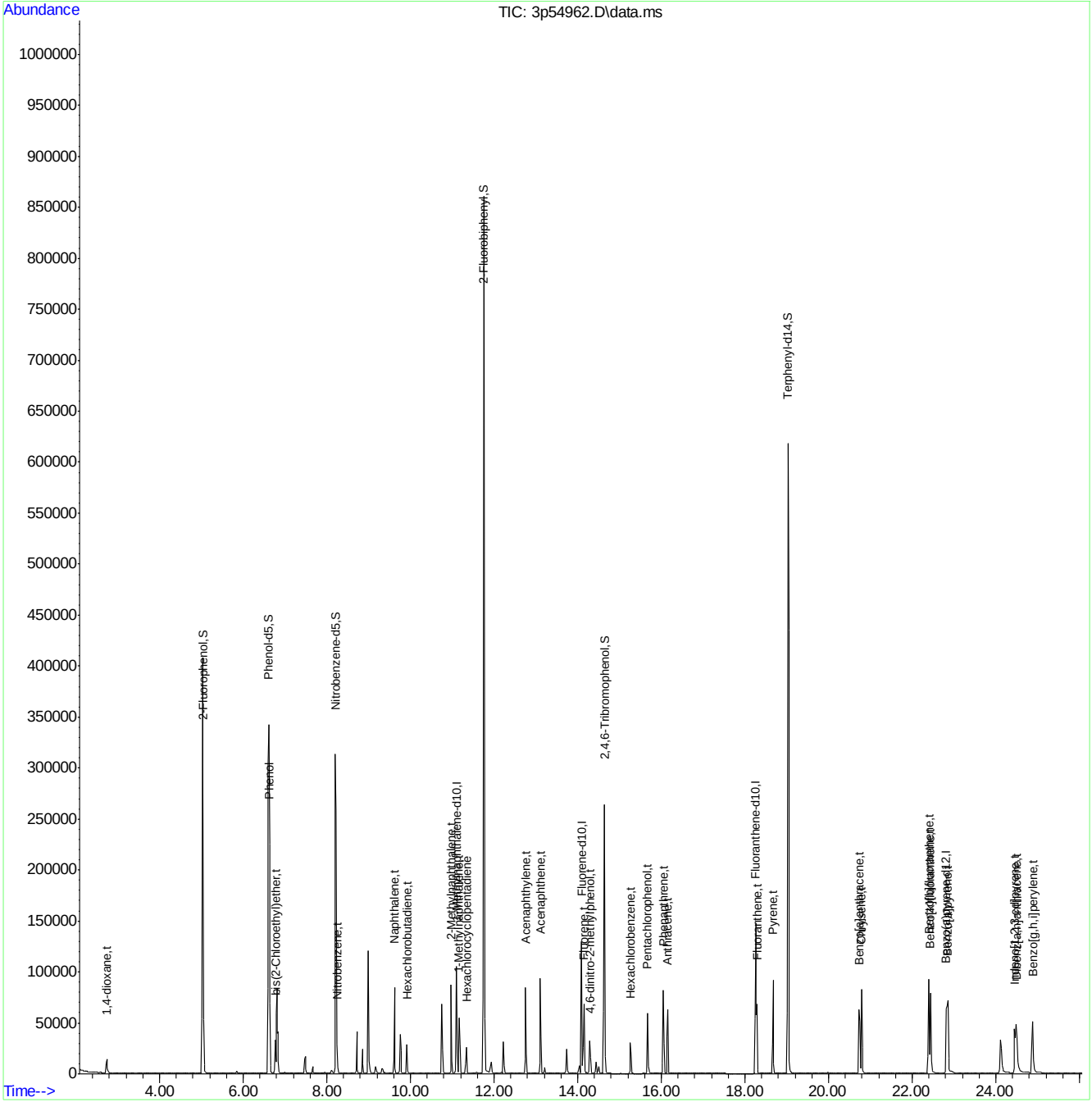
7

SGS ACCUTEST JC24978

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\E3P2503\
Data File : 3p54962.D
Acq On : 6 Jul 2016 2:33 pm
Operator : hankc
Sample : ic2503-2.5
Misc : op95179a,e3p2503
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jul 06 17:29:34 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3P2503SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Wed Jul 06 17:29:28 2016
Response via : Initial Calibration



Manual Integrations APPROVED (compounds with "m" flag)
Nina Pandya
07/11/16 10:45

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\E3P2503\
Data File : 3p54963.D
Acq On : 6 Jul 2016 3:04 pm
Operator : hankc
Sample : ic2503-0.5
Misc : op95179a,e3p2503
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jul 06 17:30:52 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3P2503SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Wed Jul 06 17:29:51 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	11.100	150	81223	4.00	ppm	# 0.00
14) Fluorene-d10	14.092	176	115674	4.00	ppm	0.00
21) Fluoranthene-d10	18.256	212	175349	4.00	ppm	# 0.00
31) Benzo(a)pyrene-d12	22.812	264	126215	4.00	ppm	0.00
System Monitoring Compounds						
3) 2-Fluorophenol	5.038	112	115904	9.19	ppm	0.00
Spiked Amount 50.000			Recovery = 18.38%			
4) Phenol-d5	6.602	99	155488	9.18	ppm	-0.01
Spiked Amount 50.000			Recovery = 18.36%			
7) Nitrobenzene-d5	8.205	82	128683	9.70	ppm	0.00
Spiked Amount 50.000			Recovery = 19.40%			
15) 2-Fluorobiphenyl	11.756	172	266716	9.29	ppm	0.00
Spiked Amount 50.000			Recovery = 18.58%			
20) 2,4,6-Tribromophenol	14.639	330	38410	10.77	ppm	0.00
Spiked Amount 50.000			Recovery = 21.54%			
28) Terphenyl-d14	19.028	244	221305	11.38	ppm	0.00
Spiked Amount 50.000			Recovery = 22.76%			
Target Compounds						Qvalue
2) 1,4-dioxane	2.736	88	3525	0.42	ppm	# 42
5) Phenol	6.627	94	34474	2.03	ppm	# 62
6) bis(2-Chloroethyl)ether	6.772	93	5883	0.40	ppm	86
8) Nitrobenzene	8.243	77	6653	0.42	ppm	80
9) Naphthalene	9.617	128	23203	0.43	ppm	96
10) Hexachlorobutadiene	9.919	225	3815	0.41	ppm	87
11) 2-Methylnaphthalene	10.977	141	13042	0.45	ppm	96
12) 1-Methylnaphthalene	11.161	141	10262	0.45	ppm	97
13) Hexachlorocyclopentadiene	11.346	237	4486	0.85	ppm	95
16) Acenaphthylene	12.751	152	20901	0.51	ppm	96
17) Acenaphthene	13.107	153	12707	0.49	ppm	84
18) 4,6-dinitro-2-methylph...	14.281	198	3583	1.68	ppm	# 1
19) Fluorene	14.149	166	12043	0.49	ppm	92
22) Hexachlorobenzene	15.257	284	4853	0.50	ppm	75
23) Pentachlorophenol	15.674	266	9025	2.38	ppm	88
24) Phenanthrene	16.045	178	21809	0.54	ppm	96
25) Anthracene	16.154	178	18101	0.52	ppm	91
26) Fluoranthene	18.287	202	17629	0.50	ppm	96
27) Pyrene	18.673	202	19967	0.51	ppm	94
29) Benzo[a]anthracene	20.728	228	16414	0.50	ppm	91
30) Chrysene	20.790	228	19513	0.52	ppm	98
32) Benzo[b]fluoranthene	22.398	252	20946m	0.50	ppm	
33) Benzo[k]fluoranthene	22.436	252	17265m	0.49	ppm	
34) Benzo[a]pyrene	22.849	252	14751	0.44	ppm	95
35) Indeno[1,2,3-cd]pyrene	24.448	276	17213	0.47	ppm	93
36) Dibenz[a,h]anthracene	24.486	278	13842	0.49	ppm	82
37) Benzo[g,h,i]perylene	24.881	276	17492	0.49	ppm	89

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\E3P2503\
Data File : 3p54963.D
Acq On : 6 Jul 2016 3:04 pm
Operator : hankc
Sample : ic2503-0.5
Misc : op95179a,e3p2503
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jul 06 17:30:52 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3P2503SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Wed Jul 06 17:29:51 2016
Response via : Initial Calibration

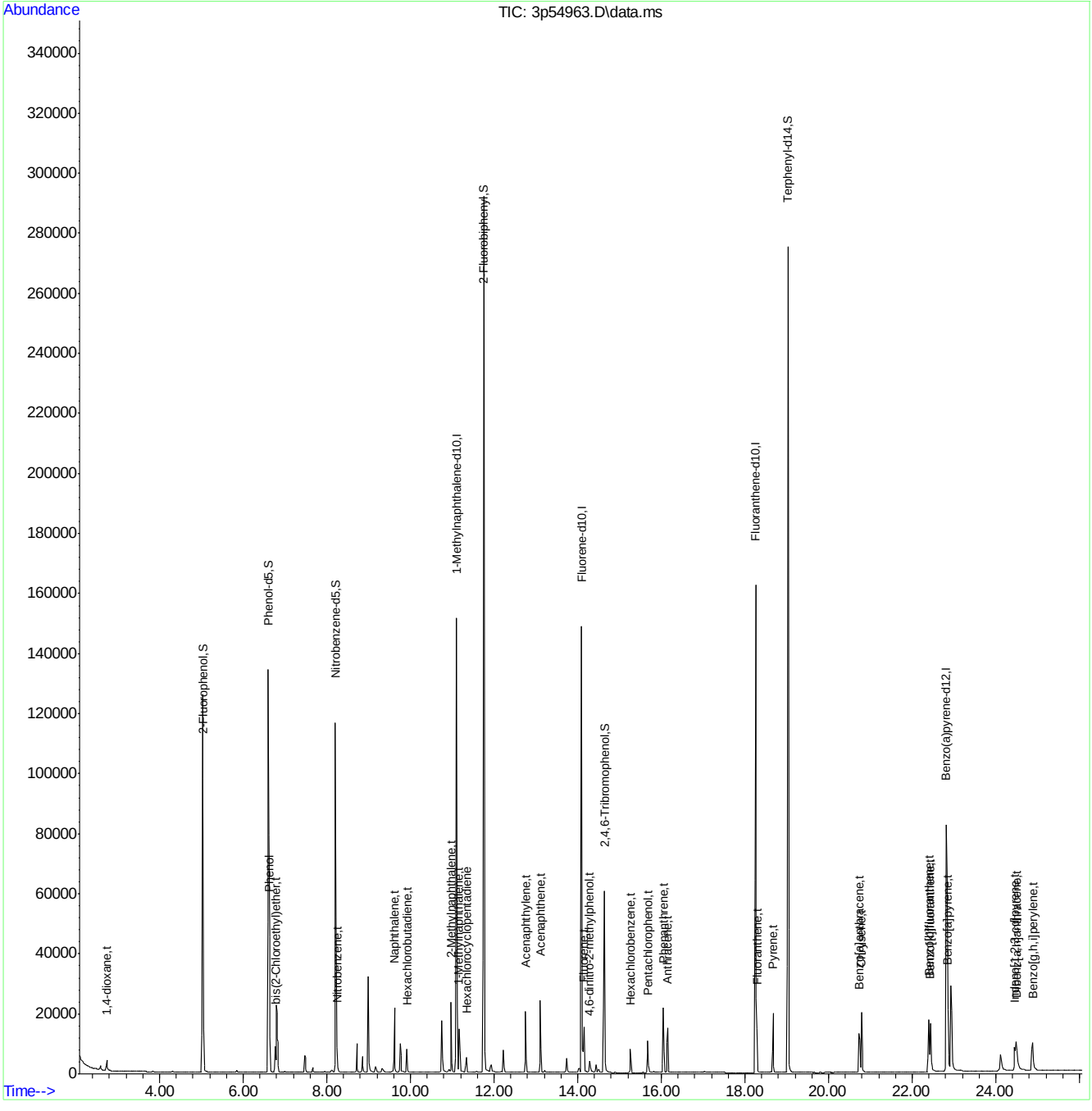
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\E3P2503\
Data File : 3p54963.D
Acq On : 6 Jul 2016 3:04 pm
Operator : hankc
Sample : ic2503-0.5
Misc : op95179a,e3p2503
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jul 06 17:30:52 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3P2503SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Wed Jul 06 17:29:51 2016
Response via : Initial Calibration



SGS ACCUTEST JC24978

Manual Integration Approval Summary

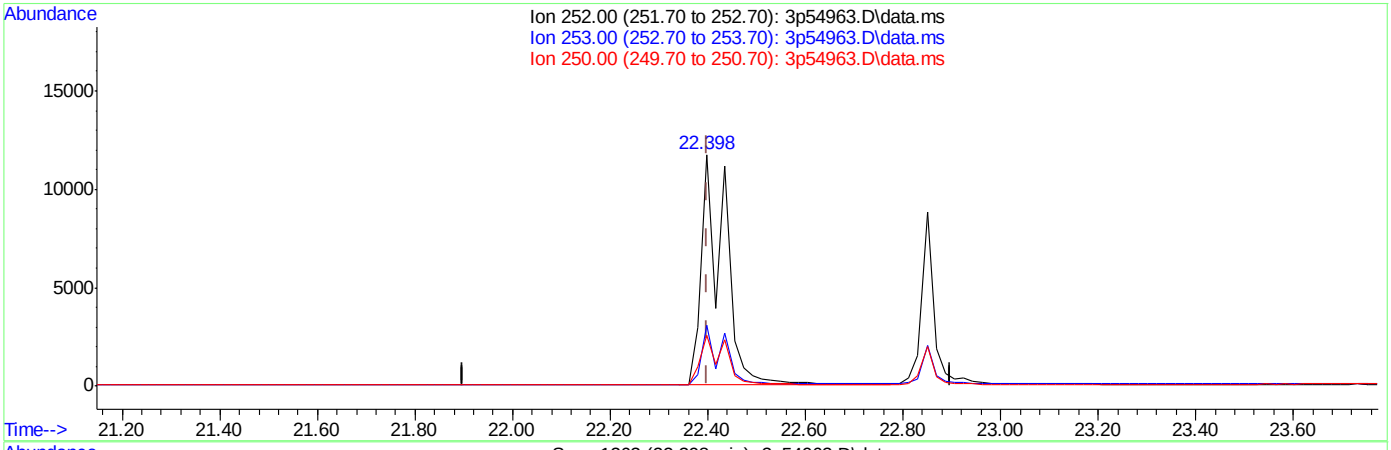
Sample Number:	E3P2503-IC2503	**Method:**	SW846 8270D BY SIM
Lab FileID:	3P54963.D	**Analyst approved:**	07/11/16 10:13 Ashley Dye
Injection Time:	07/06/16 15:04	**Supervisor approved:**	07/11/16 10:45 Nina Pandya

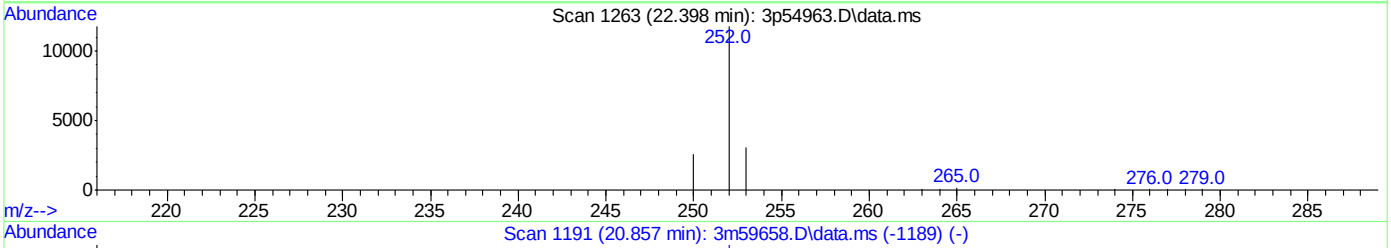
Parameter	CAS	Sig#	R.T. (min.)	Reason
Benzo(b)fluoranthene	205-99-2		22.40	Overlapping peak
Benzo(k)fluoranthene	207-08-9		22.44	Overlapping peak

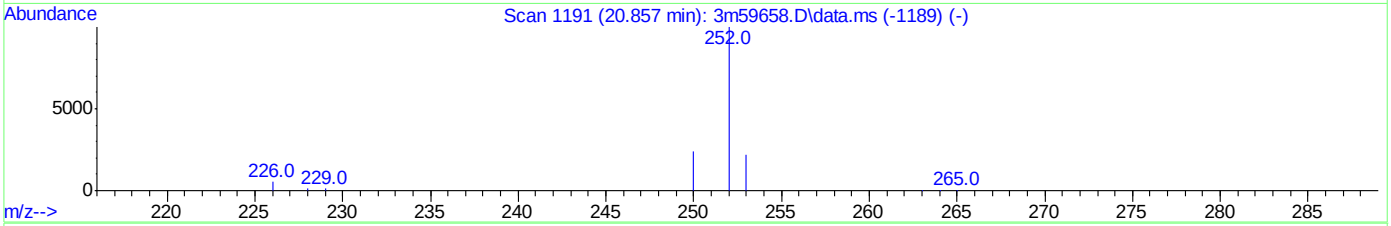
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\E3P2503\
Data File : 3p54963.D
Acq On : 6 Jul 2016 3:04 pm
Operator : hankc
Sample : ic2503-0.5
Misc : op94978,e3p2503
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jul 06 17:30:33 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3P2503SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Wed Jul 06 17:29:51 2016
Response via : Initial Calibration







TIC: 3p54963.D\data.ms

(32) Benzo[b]fluoranthene (t)

22.398min (+0.000) 0.94ppm

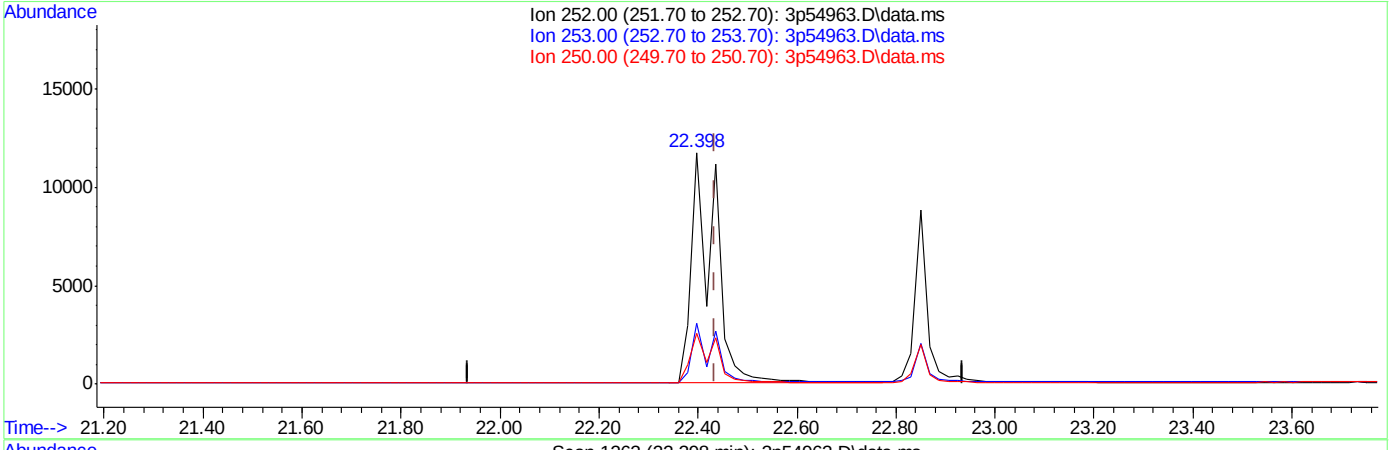
response 39195

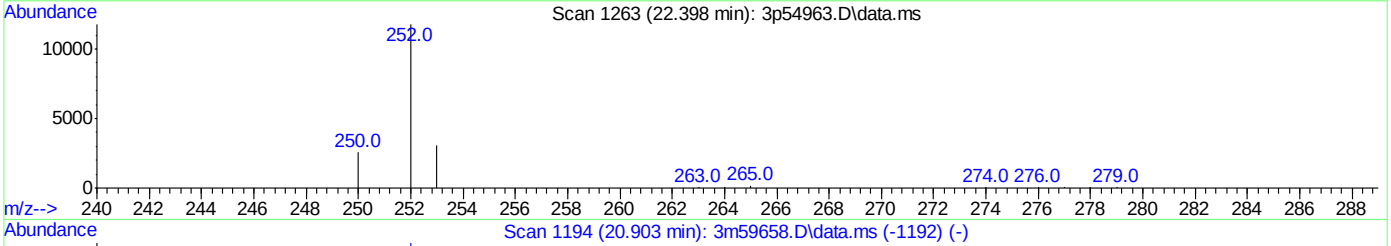
Ion	Exp%	Act%
252.00	100	100
253.00	23.60	25.51
250.00	23.10	21.50
0.00	0.00	0.00

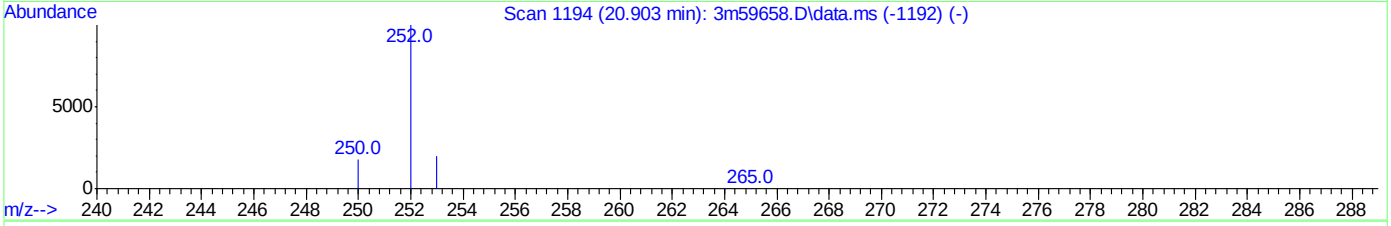
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\E3P2503\
Data File : 3p54963.D
Acq On : 6 Jul 2016 3:04 pm
Operator : hankc
Sample : ic2503-0.5
Misc : op94978,e3p2503
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jul 06 17:30:33 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3P2503SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Wed Jul 06 17:29:51 2016
Response via : Initial Calibration







TIC: 3p54963.D\data.ms

(33) Benzo[k]fluoranthene (t)

22.398min (-0.038) 1.11ppm

response 39195

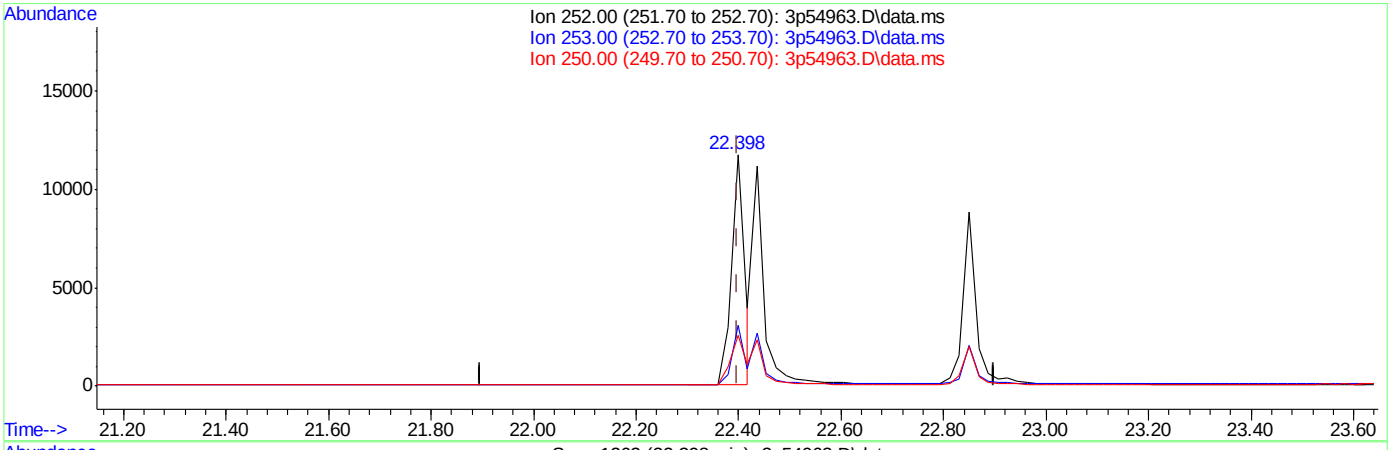
Ion	Exp%	Act%
252.00	100	100
253.00	23.60	25.51
250.00	23.10	21.50
0.00	0.00	0.00

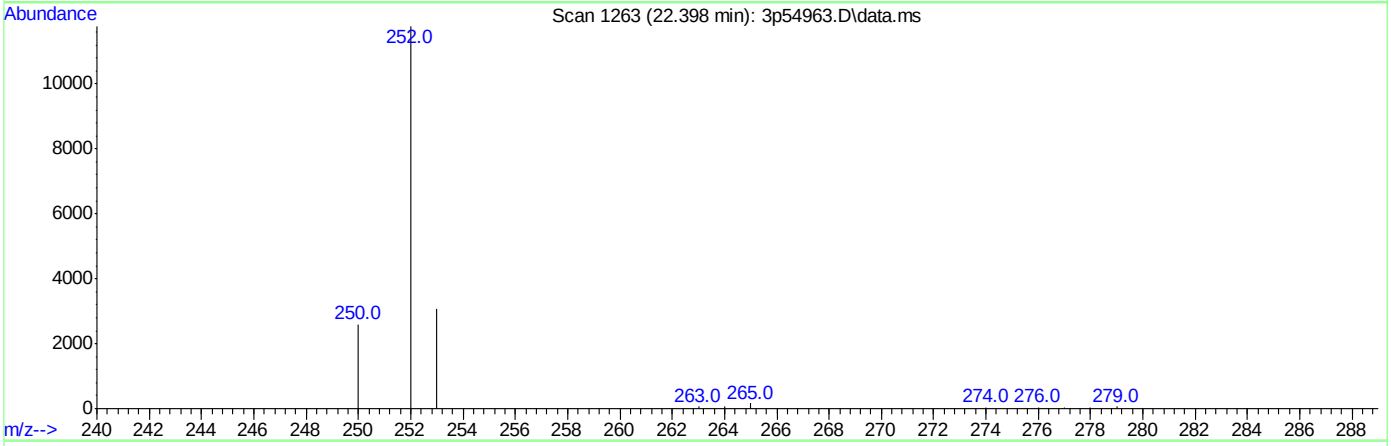
SGS ACCUTEST JC24978

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\E3P2503\
Data File : 3p54963.D
Acq On : 6 Jul 2016 3:04 pm
Operator : hankc
Sample : ic2503-0.5
Misc : op95179a,e3p2503
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jul 06 17:30:52 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3P2503SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Wed Jul 06 17:29:51 2016
Response via : Initial Calibration





TIC: 3p54963.D\data.ms

(32) Benzo[b]fluoranthene (t)

22.398min (+0.000) 0.50ppm m

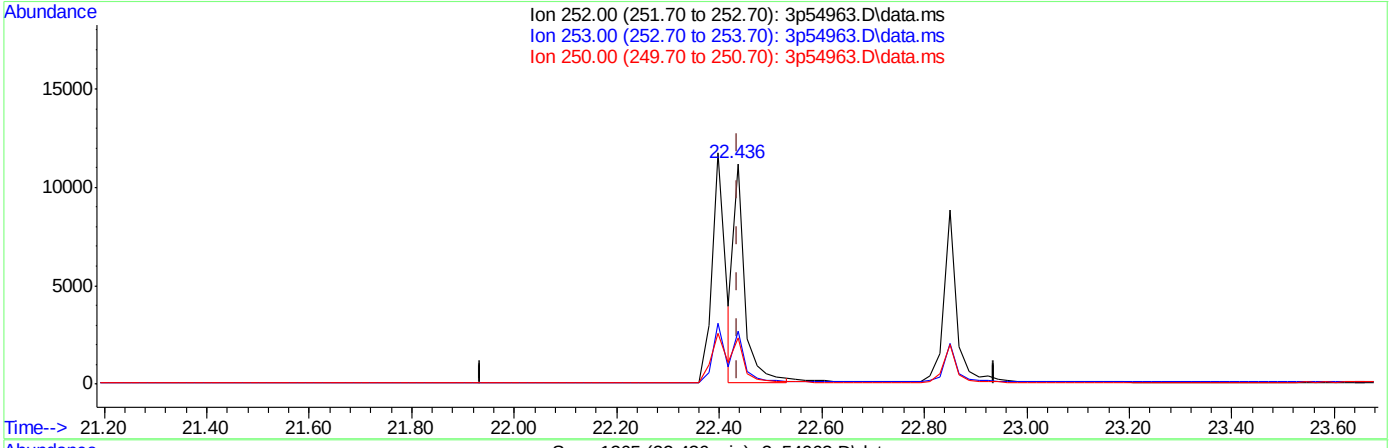
response 20946

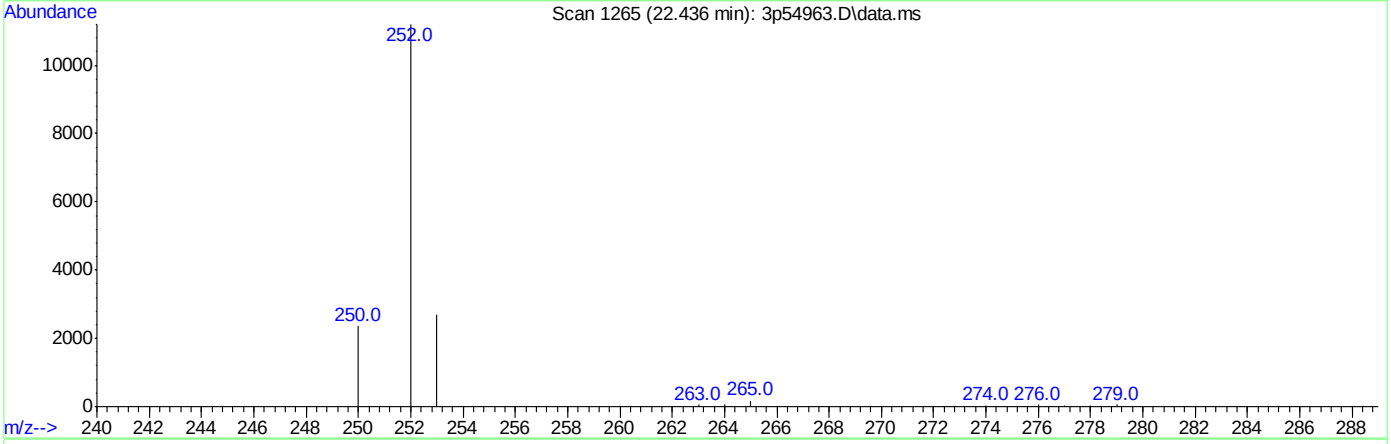
Ion	Exp%	Act%
252.00	100	100
253.00	23.60	26.15
250.00	23.10	22.06
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\E3P2503\
Data File : 3p54963.D
Acq On : 6 Jul 2016 3:04 pm
Operator : hankc
Sample : ic2503-0.5
Misc : op95179a,e3p2503
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jul 06 17:30:52 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3P2503SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Wed Jul 06 17:29:51 2016
Response via : Initial Calibration





TIC: 3p54963.D\data.ms

(33) Benzo[k]fluoranthene (t)

22.436min (+0.000) 0.49ppm m

response 17265

Ion	Exp%	Act%
252.00	100	100
253.00	23.60	23.92
250.00	23.10	21.02
0.00	0.00	0.00

SGS ACCUTEST JC24978

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\E3P2503\
Data File : 3p54964.D
Acq On : 6 Jul 2016 5:37 pm
Operator : hankc
Sample : icv2503-1.0
Misc : op95179a,e3p2503
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jul 07 09:41:20 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3P2503SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Wed Jul 06 17:34:10 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1-Methylnaphthalene-d10	11.100	150	52064	4.00	ppm		0.00
14) Fluorene-d10	14.093	176	72894	4.00	ppm		0.00
21) Fluoranthene-d10	18.256	212	105662	4.00	ppm	#	0.00
31) Benzo(a)pyrene-d12	22.831	264	66096	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
2) 1,4-dioxane	2.736	88	4123	0.79	ppm		58
6) bis(2-Chloroethyl)ether	6.760	93	12301	1.33	ppm	#	61
8) Nitrobenzene	8.243	77	11052	1.18	ppm		76
9) Naphthalene	9.618	128	37061	1.08	ppm		95
10) Hexachlorobutadiene	9.919	225	6032	1.04	ppm		85
11) 2-Methylnaphthalene	10.977	141	18358	1.00	ppm		92
13) Hexachlorocyclopentadiene	11.346	237	2810	0.90	ppm		99
16) Acenaphthylene	12.751	152	30926	1.20	ppm		98
17) Acenaphthene	13.107	153	19615	1.20	ppm		78
19) Fluorene	14.149	166	19330	1.26	ppm		95
22) Hexachlorobenzene	15.257	284	7137	1.22	ppm		69
24) Phenanthrene	16.046	178	30829	1.25	ppm		94
25) Anthracene	16.154	178	24958	1.19	ppm		93
26) Fluoranthene	18.287	202	27399	1.29	ppm		97
27) Pyrene	18.673	202	29057	1.22	ppm		96
29) Benzo[a]anthracene	20.744	228	26055	1.32	ppm		93
30) Chrysene	20.790	228	23433	1.04	ppm		99
32) Benzo[b]fluoranthene	22.398	252	25649	1.17	ppm		97
33) Benzo[k]fluoranthene	22.436	252	25258	1.37	ppm		96
34) Benzo[a]pyrene	22.850	252	21343	1.24	ppm		95
35) Indeno[1,2,3-cd]pyrene	24.448	276	23238	1.22	ppm		92
36) Dibenz[a,h]anthracene	24.486	278	18197	1.24	ppm		86
37) Benzo[g,h,i]perylene	24.881	276	22938	1.22	ppm		89

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

7.6.51

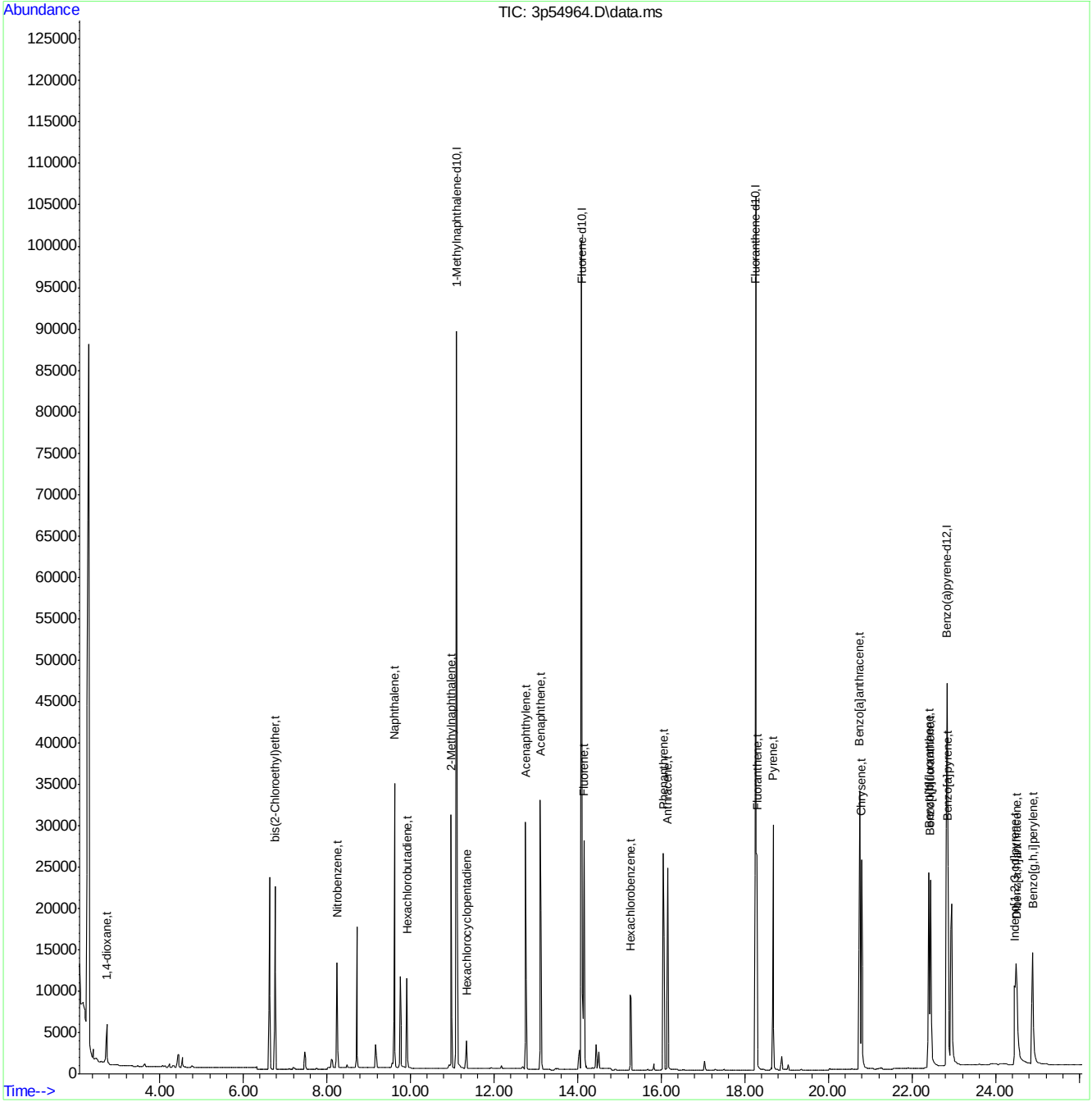
7

SGS ACCUTEST JC24978

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\E3P2503\
Data File : 3p54964.D
Acq On : 6 Jul 2016 5:37 pm
Operator : hankc
Sample : icv2503-1.0
Misc : op95179a,e3p2503
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jul 07 09:41:20 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3P2503SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Wed Jul 06 17:34:10 2016
Response via : Initial Calibration



M3P2503SIM.M Mon Jul 11 10:09:14 2016 Page: 2

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\E3P2503\
Data File : 3p54965.D
Acq On : 6 Jul 2016 6:08 pm
Operator : hankc
Sample : icv2503-1.0
Misc : op95179a,e3p2503
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jul 07 09:19:21 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3P2503SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Wed Jul 06 17:34:10 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	11.100	150	53847	4.00	ppm	# 0.00
14) Fluorene-d10	14.092	176	72209	4.00	ppm	0.00
21) Fluoranthene-d10	18.256	212	102579	4.00	ppm	# 0.00
31) Benzo(a)pyrene-d12	22.812	264	71944	4.00	ppm	-0.02
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	6.614	94	60582	6.97	ppm	# 86
18) 4,6-dinitro-2-methylph...	14.281	198	4546	3.89	ppm	# 1
23) Pentachlorophenol	15.674	266	11230	4.41	ppm	89

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

7.6.52

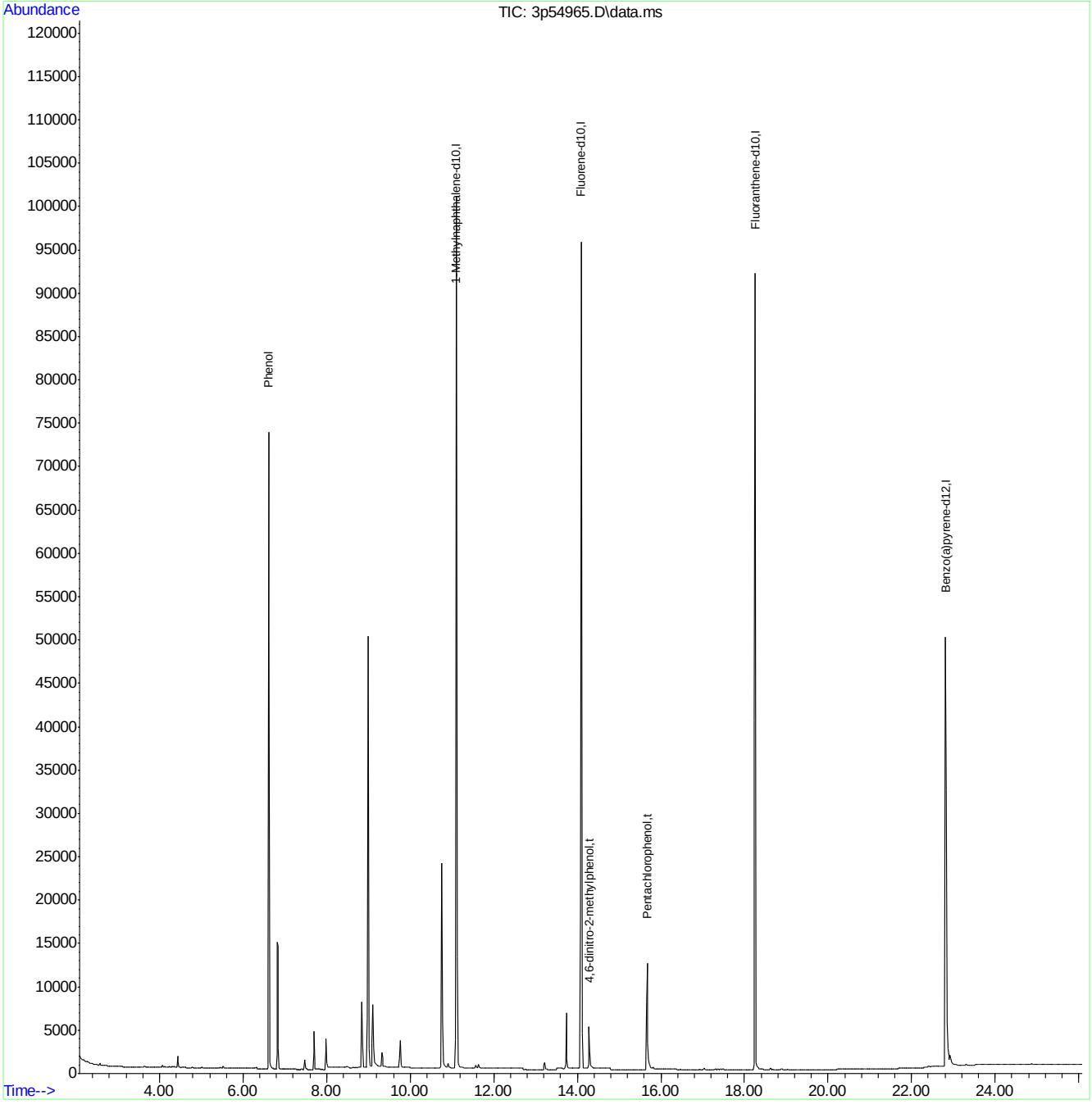
7

SGS ACCUTEST JC24978

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\E3P2503\
Data File : 3p54965.D
Acq On : 6 Jul 2016 6:08 pm
Operator : hankc
Sample : icv2503-1.0
Misc : op95179a,e3p2503
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jul 07 09:19:21 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3P2503SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Wed Jul 06 17:34:10 2016
Response via : Initial Calibration



M3P2503SIM.M Mon Jul 11 10:09:22 2016 Page: 2

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\E3P2534\
Data File : 3p55401.D
Acq On : 2 Aug 2016 9:07 am
Operator : ashleyd
Sample : cc2503-1
Misc : op95837a,e3p2534
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 02 12:12:12 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3P2503SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Tue Aug 02 12:12:06 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	10.768	150	66646	4.00	ppm	0.00
14) Fluorene-d10	13.739	176	111093	4.00	ppm	0.00
21) Fluoranthene-d10	17.905	212	168107	4.00	ppm	0.00
31) Benzo(a)pyrene-d12	22.478	264	123544	4.00	ppm	0.00
System Monitoring Compounds						
3) 2-Fluorophenol	4.760	112	218707	20.32	ppm	-0.13
Spiked Amount 50.000			Recovery = 40.64%			
4) Phenol-d5	6.328	99	280337	19.46	ppm	-0.08
Spiked Amount 50.000			Recovery = 38.92%			
7) Nitrobenzene-d5	7.895	82	237820	21.95	ppm	-0.06
Spiked Amount 50.000			Recovery = 43.90%			
15) 2-Fluorobiphenyl	11.412	172	477247	17.46	ppm	-0.05
Spiked Amount 50.000			Recovery = 34.92%			
20) 2,4,6-Tribromophenol	14.286	330	74527	21.43	ppm	0.01
Spiked Amount 50.000			Recovery = 42.86%			
28) Terphenyl-d14	18.693	244	375460	16.96	ppm	0.03
Spiked Amount 50.000			Recovery = 33.92%			
Target Compounds						Qvalue
2) 1,4-dioxane	2.489	88	8029	1.20	ppm	77
5) Phenol	6.352	94	62643	5.71	ppm #	66
6) bis(2-Chloroethyl)ether	6.461	93	11288	0.95	ppm	89
8) Nitrobenzene	7.914	77	11460	0.95	ppm #	58
9) Naphthalene	9.288	128	40700	0.93	ppm	92
10) Hexachlorobutadiene	9.589	225	6694	0.90	ppm	96
11) 2-Methylnaphthalene	10.648	141	19261	0.82	ppm #	69
12) 1-Methylnaphthalene	10.815	141	19187	1.04	ppm	95
13) Hexachlorocyclopentadiene	11.006	237	7360	1.66	ppm	92
16) Acenaphthylene	12.391	152	31156	0.80	ppm	96
17) Acenaphthene	12.756	153	26218	1.06	ppm	88
18) 4,6-dinitro-2-methylph...	13.947	198	13135	6.29	ppm #	47
19) Fluorene	13.796	166	22608	0.97	ppm	90
22) Hexachlorobenzene	14.906	284	8621	0.93	ppm	96
23) Pentachlorophenol	15.323	266	18713	4.48	ppm	98
24) Phenanthrene	15.679	178	39133	1.00	ppm	100
25) Anthracene	15.787	178	31815	0.95	ppm	99
26) Fluoranthene	17.936	202	34543	1.02	ppm	99
27) Pyrene	18.322	202	38835	1.03	ppm	98
29) Benzo[a]anthracene	20.393	228	35173	1.12	ppm	100
30) Chrysene	20.455	228	33910	0.94	ppm	99
32) Benzo[b]fluoranthene	22.062	252	40114	0.98	ppm	99
33) Benzo[k]fluoranthene	22.092	252	32241	0.94	ppm	98
34) Benzo[a]pyrene	22.497	252	26874	0.83	ppm	95
35) Indeno[1,2,3-cd]pyrene	24.020	276	37095	1.04	ppm	93
36) Dibenz[a,h]anthracene	24.058	278	28874	1.05	ppm	54
37) Benzo[g,h,i]perylene	24.397	276	32401	0.92	ppm	88

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\E3P2534\
Data File : 3p55401.D
Acq On : 2 Aug 2016 9:07 am
Operator : ashleyd
Sample : cc2503-1
Misc : op95837a,e3p2534
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 02 12:12:12 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3P2503SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Tue Aug 02 12:12:06 2016
Response via : Initial Calibration

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

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

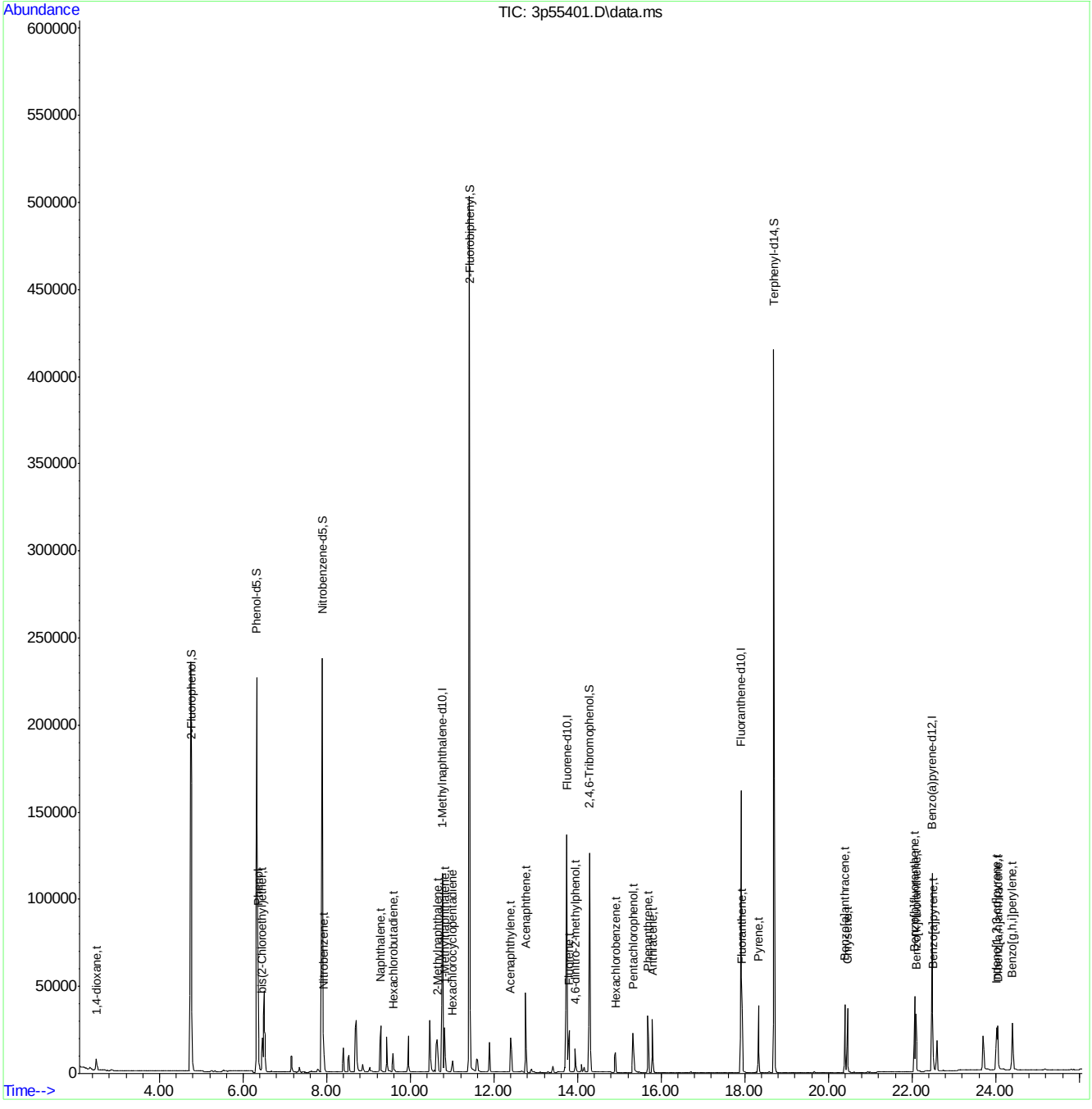
7.6.53

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\E3P2534\
Data File : 3p55401.D
Acq On : 2 Aug 2016 9:07 am
Operator : ashleyd
Sample : cc2503-1
Misc : op95837a,e3p2534
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 02 12:12:12 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3P2503SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Tue Aug 02 12:12:06 2016
Response via : Initial Calibration



SGS ACCUTEST JC24978

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\E3P2546\
Data File : 3p55586.D
Acq On : 9 Aug 2016 2:35 pm
Operator : ashleyd
Sample : cc2503-0.5
Misc : op95964a,e3p2546
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 09 15:22:01 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3P2503SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Wed Jul 06 17:34:10 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1-Methylnaphthalene-d10	10.839	150	93673	4.00	ppm		0.14
14) Fluorene-d10	13.815	176	145013	4.00	ppm		0.15
21) Fluoranthene-d10	17.967	212	237955	4.00	ppm		0.09
31) Benzo(a)pyrene-d12	22.535	264	202189	4.00	ppm		0.08
System Monitoring Compounds							
3) 2-Fluorophenol	4.838	112	146520	9.69	ppm		-0.02
Spiked Amount 50.000			Recovery = 19.38%				
4) Phenol-d5	6.401	99	200679	9.91	ppm		0.04
Spiked Amount 50.000			Recovery = 19.82%				
7) Nitrobenzene-d5	7.970	82	172805	11.35	ppm		0.06
Spiked Amount 50.000			Recovery = 22.70%				
15) 2-Fluorobiphenyl	11.484	172	406070	11.38	ppm		0.08
Spiked Amount 50.000			Recovery = 22.76%				
20) 2,4,6-Tribromophenol	14.361	330	58422	12.87	ppm		0.17
Spiked Amount 50.000			Recovery = 25.74%				
28) Terphenyl-d14	18.755	244	340233	10.86	ppm		0.12
Spiked Amount 50.000			Recovery = 21.72%				
Target Compounds							Qvalue
2) 1,4-dioxane	2.551	88	5012	0.53	ppm	#	50
5) Phenol	6.425	94	45961	2.79	ppm	#	80
6) bis(2-Chloroethyl)ether	6.534	93	8012	0.48	ppm		73
8) Nitrobenzene	7.989	77	8311	0.49	ppm		95
9) Naphthalene	9.345	128	30483	0.50	ppm		99
10) Hexachlorobutadiene	9.646	225	4630	0.44	ppm		72
11) 2-Methylnaphthalene	10.696	141	15711	0.47	ppm		78
12) 1-Methylnaphthalene	10.887	141	14520	0.56	ppm		98
13) Hexachlorocyclopentadiene	11.078	237	5019	0.90	ppm		89
16) Acenaphthylene	12.462	152	26851	0.52	ppm		80
17) Acenaphthene	12.833	153	18774	0.58	ppm		96
18) 4,6-dinitro-2-methylph...	14.022	198	9288	3.94	ppm		82
19) Fluorene	13.853	166	17199	0.56	ppm	#	65
22) Hexachlorobenzene	14.968	284	7144	0.54	ppm		83
23) Pentachlorophenol	15.401	266	14786	2.62	ppm		90
24) Phenanthrene	15.757	178	31645	0.57	ppm		95
25) Anthracene	15.849	178	26993	0.57	ppm		95
26) Fluoranthene	17.998	202	26983	0.56	ppm		99
27) Pyrene	18.384	202	32154	0.60	ppm		98
29) Benzo[a]anthracene	20.455	228	32604	0.73	ppm		96
30) Chrysene	20.517	228	29914	0.59	ppm		97
32) Benzo[b]fluoranthene	22.124	252	39237	0.59	ppm		89
33) Benzo[k]fluoranthene	22.154	252	26270	0.47	ppm		88
34) Benzo[a]pyrene	22.553	252	23566	0.45	ppm		94
35) Indeno[1,2,3-cd]pyrene	24.096	276	46609	0.80	ppm		93
36) Dibenz[a,h]anthracene	24.115	278	35476	0.79	ppm		54
37) Benzo[g,h,i]perylene	24.472	276	40879	0.71	ppm		97

SGS ACCUTEST JC24978

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\E3P2546\
Data File : 3p55586.D
Acq On : 9 Aug 2016 2:35 pm
Operator : ashleyd
Sample : cc2503-0.5
Misc : op95964a,e3p2546
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 09 15:22:01 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3P2503SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Wed Jul 06 17:34:10 2016
Response via : Initial Calibration

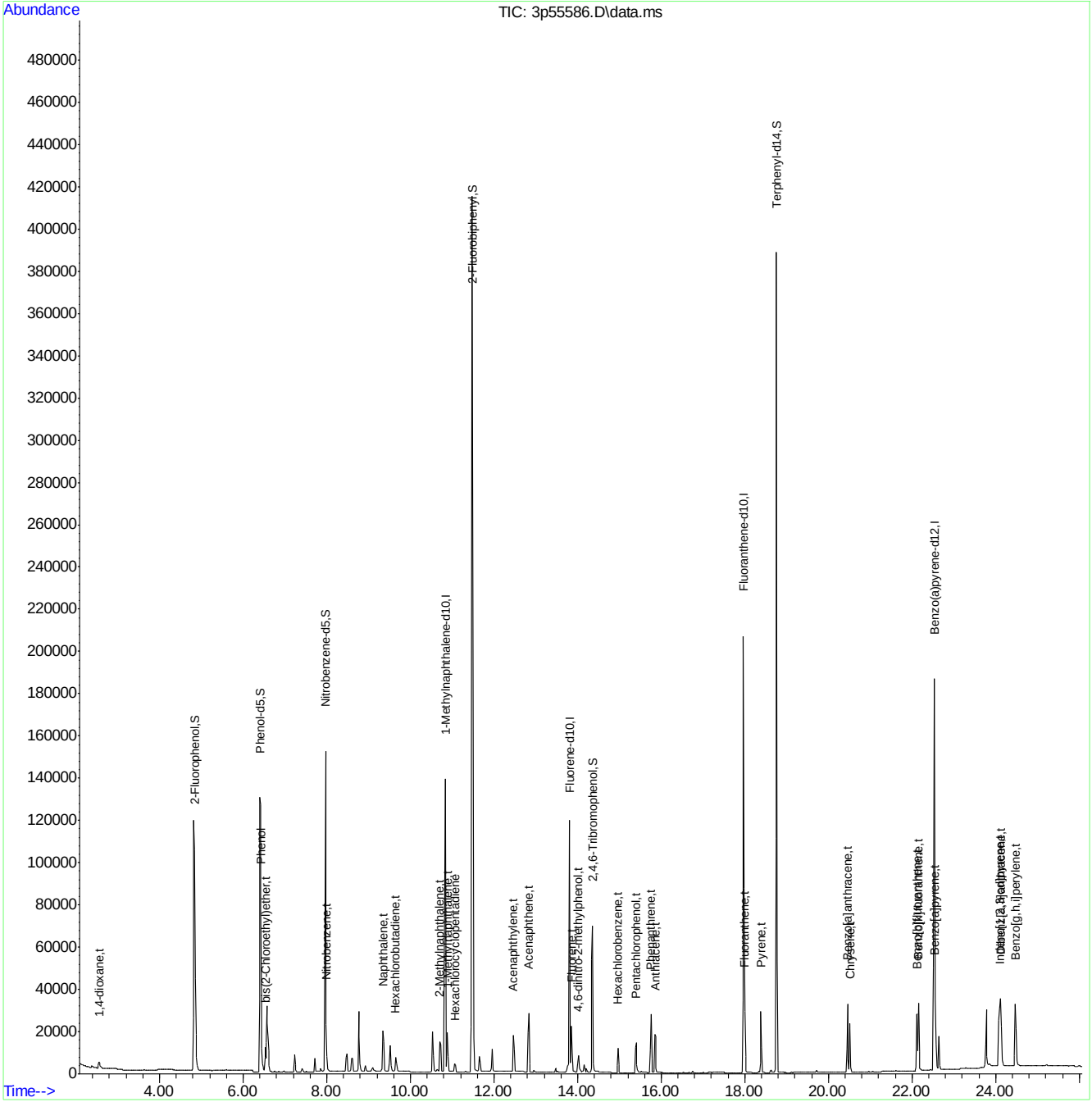
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\E3P2546\
Data File : 3p55586.D
Acq On : 9 Aug 2016 2:35 pm
Operator : ashleyd
Sample : cc2503-0.5
Misc : op95964a,e3p2546
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 09 15:22:01 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3P2503SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Wed Jul 06 17:34:10 2016
Response via : Initial Calibration

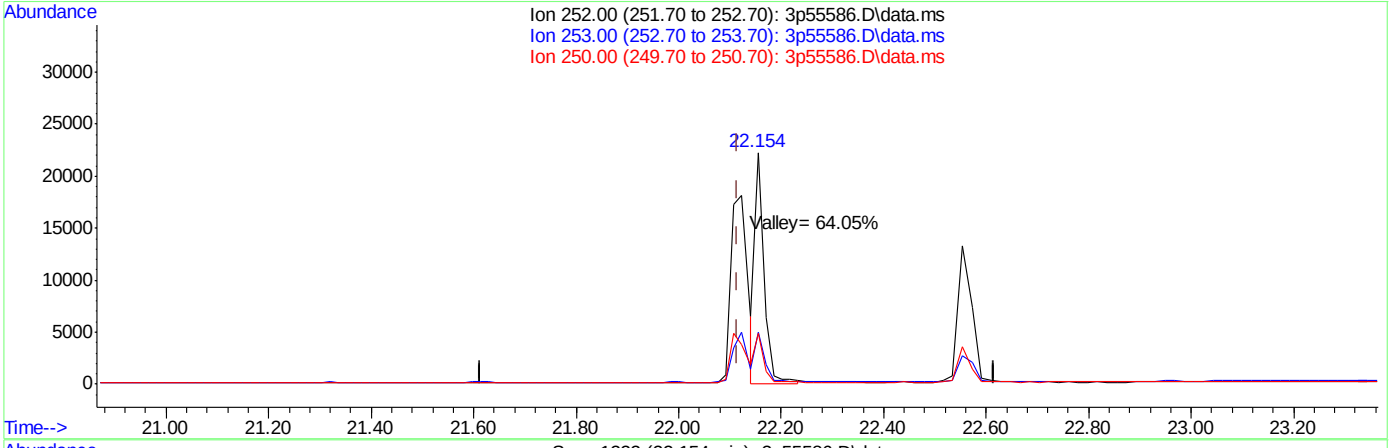


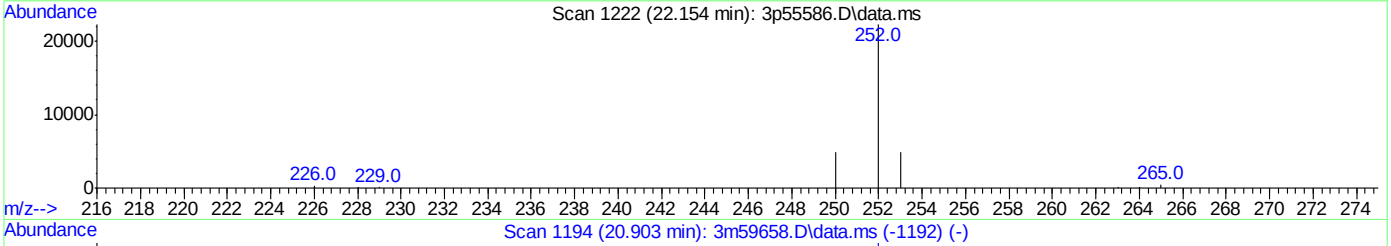
SGS ACCUTEST JC24978

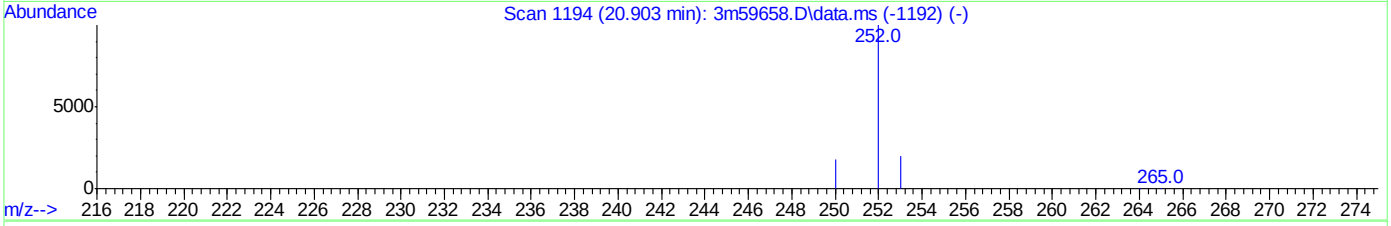
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\E3P2546\
Data File : 3p55586.D
Acq On : 9 Aug 2016 2:35 pm
Operator : ashleyd
Sample : cc2503-0.5
Misc : op95964a,e3p2546
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 09 15:22:01 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3P2503SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Wed Jul 06 17:34:10 2016
Response via : Initial Calibration







TIC: 3p55586.D\data.ms

(33) Benzo[k]fluoranthene (t)

22.154min (+0.040) 0.47ppm

response 26270

Ion	Exp%	Act%
252.00	100	100
253.00	29.30	21.65
250.00	24.70	20.38
0.00	0.00	0.00

SEMI-VOLATILE by GCMS ANALYSIS LOG

SGS ACCUTEST

Batch ID E2M3789

Print Analyst Name: Ashley N.

Analyst Signature: [illegible]

Date: 7-20-16

Columns: Rxi5Silms 30mx25mmx25µm

Method 8270D 1625

Initial Cal. Method M2M3789

Injection Volume: 1µl

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
SV161935-89	d4pp	500ppm
CM5732	Internal Std	4000ppm
163534	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: 7-21-16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution.	L+	IS	SU	Status (Data)	Comments
	2M85679	d4pp			W	1					OK	10:11AM
	85680	ic 3789-1		BNA		2					OK	SV161935-102I
	85681	-100				3					OK	-102A
	85682	-2				4					OK	-102H
	85683	-5				5					OK	-102G
	85684	-10				6					OK	-102E
	85685	-25				7					OK	-102D
	85686	-50				8					OK	-102C
	85687	-80				9					OK	-102B

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: E2M3790

Print Analyst Name: Ashley N.

Analyst Signature: [signature]

Date: 7-20-16

Columns: Rxi5Silms30mx.25

Method: 8270D/1625

Initial Cal. Method: M2M3789

Injection Volume: 1µL

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
SV161935-89	DFtpp	50ppm
OU5732	Internal Std	4000ppm
163534	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: AMW

Date: 7-21-16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution.	L+	IS	SU	Status (Data)	Comments
	2M85688	dftpp			W	1					OK	2:43pm
	85689	ic 3790-100		PHM		2					OK	SV151827-52A
	85690	-80				3					OK	-52B
	85691	icc3790-50				4					OK	-52C
	85692	IC3790-25				5					OK	-52D
	85693	-10				6					OK	-52E
	85694	-5				7					OK	-52G
	85695	-2				8					OK	-52H
	85696	-1				9					OK	-52I
	85697	icv 3790-50		PHM 2nd		10					OK	SV161935-23
	85698	icv 3789-50		Acids		11					OK	SV161935-107
	85699	-50		ABN SVM		12					OK	op161770-42
	85700	op161770-15		PHM spike		13					OK	(op161770-15) X2 * reinject (acid SVM)
												7:42pm ~~7:42pm~~ AMW 7/21/16

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.

139

Form: OR015-07

Rev. Date: 1/19/16

7.7.2

7

SEMI-VOLATILE by GCMS ANALYSIS LOG

SGS ACCUTEST

Batch ID E2M3791

Print Analyst Name: Sean Black

Date: 7/20/16

Analyst Signature: [signature]

Columns: Rtx-5Sil ms 30m x 0.25mm x 0.25µm

Method 8270D-625

Initial Cal. Method M2M3789

Injection Volume: 1µL

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
SV 161935-89	DFTPP	50 ppm
OM-5712	Internal Std	4000 ppm
161834	CDCM - Fisher	— 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: [signature] Date: 7-21-16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution.	L+	IS	SU	Status (Data)	Comments
	2M88701	DFTPP				1					OK	9:38 pm
	88702	ICV3791-100		TCL42		2					OK	SV161935-3A
	88703	-80				3					OK	-3B
	88704	ICV3791-50				4					OK	-3C
	88705	ICV3791-25				5					OK	-3D
	88706	-10				6					OK	-3E
	88707	-5				7					OK	-3G
	88708	-2				8					OK	-3H
	88709	-1				9					OK	-3I
	88710	ICV3791-50		BN1		10					OK	SV161935-7B NO 8310B report + Benzidine 3rd)
	88711	-50		BN2		11					OK/RR	-7A RR for TCL42 compounds.
	88712	-50		Aniline		12					OK	-8C
	88713	ICV3791-50		Benzidine 3rd		13					OK	SV151827-38F Benzidine report from BN1
	88714	-50		HQ		14					OK	-9BA 3:00AM

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.

141

Form: OR015-07
Rev. Date: 1/19/16

SEMI-VOLATILE by GCMS ANALYSIS LOG

SGS ACCUTEST

Batch ID E2M3792

Print Analyst Name: Ashlyn

Date: 7-21-16

Analyst Signature: AM

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
SV161935-89	DFTPP	50ppm
CM5732	Internal std	40ppm
163534	dam (Fstd)	

Columns: Rxi5Sil MS 30m x 0.25mm x 0.25µm

Method 8270D 1625

Initial Cal. Method M2M3789

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: 7-21-16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution	L+	IS	SU	Status (Data)	Comments
	2M85715	DFTPP			W	1					NG	Reinstall floating baseline
	85716	DFTPP				1					OK	2:49pm
	85719	OP16177015		PIM Spike		2					OK	
AM 7/21	85720	ICV3789-SD		BNA		3					NG	SV161935-74 no dilut lot #
	85721	ICV3791-SD		BNA		4					OK	SV161935-105 3:59pm

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 JC24978

7.7.4

7

SEMI-VOLATILE by GCMS ANALYSIS LOG

SGS ACCUTEST

Batch ID: E243807

Print Analyst Name: Josh Schlichtenberger

Analyst Signature: [signature]

Date: 7-31-16

Columns: Rtx-5Sil MS 30m x .25mm x .25um

Method: 8270d / 625

Initial Cal. Method: M243789

Injection Volume: 1.0 ul

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
SU165555	DFTPP	50 ppm
SU165535/551	BNA	50 ppm
SU165532	TCL/2	50 ppm
CMS132	Int Std	400 ppm
163542	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: [signature]

Date: 8-1-16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution	L+	IS	SU	Status (Data)	Comments
	M243996	DFTPP			W	1					Not using	166,127T Reject
	85587	DFTPP			W	1					Not using	157T - Reject
	85588	DFTPP			W	1					Not using	127T - Reject
	85589	DFTPP			W	1					ok	12:04pm
	85590	CC375-50		BNA	W	2					ok	41,48,54,61,63,64,76↑ 57↑
	85591	CC375-50		TCL/2	W	3					ok	
	85592	OP55535-1/351	55551	Abrid+	W	4		X	/	/	ok	
	85593	OP55535-351				5			/	/	ok	
	85594	X24578-1		Sim only 1,4dioxane NAP		6			/	/	ok	
	85595	-2				7			/	/	ok	
	85596	-3				8			/	/	ok	
	85597	-4				9			/	/	ok	R2 1:10
	85598	-5				10			/	/	ok	R2 1:10
	85599	-6				11			/	/	ok	
	86000	X13320-50		PAH		12			/	\	ok	
	86001	X24246-1		Sim only NAP 1,4dioxane		13			/	\	ok	
	86002	X24218-1		Abrid+		14		+	/	\	ok	Reextract - Auditing 35

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 E2M3807

Print Analyst Name Kristi Shallenberger

Analyst Signature

Date: 7-31-16

Columns Rtx-5Sil MS 30m x .25mm x .25u

Method 8270d/1625

Initial Cal. Method M2M3759

Injection Volume: 1.0 ul

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
C45732	Int Std	40000ppb
165392	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: AM

Date: 8-1-16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution.	L+	IS	SU	Status (Data)	Comments
	2M36003	CP55535-15	55551	AB8270	W	15					OK	
	36004	CP55535-15D				16					OK	
	36005	JC24934-1		AB8270		17					OK	Benzoic Acid + in 35
	36006	JC24934-2		AB8270		18		+			OK	
	36007	-4				19		+			OK	
	36008	-7				20		+			OK	
	36009	-5				21		+			OK	
	36010	-5				22		+			OK	
	36011	-10				23		+			OK	9:19 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.

Form: OR015-07
Rev. Date: 1/19/16

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SEMI-VOLATILE by GCMS ANALYSIS LOG

SGS ACCUTEST

Batch ID E2M3808

Print Analyst Name: Ashley N.

Analyst Signature: AN

Date: 8-01-16

Columns: Rxissilm30mx.25mm25µm

Method 8270D/625

Initial Cal. Method M2M3789

Injection Volume: 1µL

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
SV 1619358	Dftpp	50ppm
-1086	BNA	25ppm
-4N	TCL42	↓
CIMS732	Internal Std	4000ppm
1163582	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: 8/2/16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution.	L+	IS	SU	Status (Data)	Comments
	M8602	dftpp			W	1					not using	68↑ Reinject
	86013	dftpp				1					↓	127↑ reinject
	86014	Dftpp				1					OK	9:57am
	86015	CC3789-25		BNA		2					OK	57,61,63, TBP, RCP ↑
	86016	CC3791-25		TCL42		3					OK	
	86017	OP94634-MB1 ~~OP94634~~ AN 8-1-16	94634-1	Sdm MDL	S	4					OK	
	86018	JC119468-6B		↓		5					OK	BS5
	86019	6B				6					OK	BS6
	86020	-6A				7			✓		OK	BS7 non cal to end.
	86021	6A		↓		8			✓		RR	BS8 cont see prev 7: 05ppm
	86022	JC24282-1	95671	ABNJTCL20*	W	9		+			OK	
	86023	-2				10		+			OK	
	86024	-3				11		+			OK	
	86025	-4				12		+			OK	
	86026	-5				13		+			OK	
	86027	-6		↓		14		+			OK	
R	86028	JC24978-4	95939A1	Simonly 14Dox tMAP	W	15	10				OK	RR1:4 (14Dox)

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 JC24978

SEMI-VOLATILE by GCMS ANALYSIS LOG

SGS ACCUTEST

Batch ID E2M3808

Print Analyst Name: Ashley N.

Date: 8-01-16

Analyst Signature: [signature]

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
	Sepage 193	

Columns: Rxi5Silms30mx25mmx25µm

Method 8270D/625

Initial Cal. Method M2M3789

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: 8/2/16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution	L+	IS	SU	Status (Data)	Comments
R	2M86029	JC 24978-5	95939A-1	SIM only 1,4 Dix + NMP	W	16	10		✓	✓	OK	RR 1:2 (1,4 Dix)
R	86030	JC 24675-6		BTEX 20		17	2		All ↓		not using	diluted due to matrix RR 1:5 remake RR 6:14pm
	86031	dcm 163582		~~test~~		18			✓	X	OK	ran after 2M86031
	86032	OP95641-MB1	95641-1	PB8270	W	19		+	✓	✓	OK	Ran after 2M86029.
	86033	JC 24230-6		ABN 8270		20	2		All T		RR	✓ Remake + RR
R	86034	JC 24978-4	95939A-1	SIM only 1,4 Dix + NMP	W	21	40		✓	✓	OK	✓
R	86035	-5				22	20		✓	✓	OK	✓
R	86036	JC24230-6	95641	ABN 8270	W	20	2	+	✓	✓	OK	ran at end of sequence

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 JC24978

SEMI-VOLATILE by GCMS ANALYSIS LOG

SGS ACCUTEST

Batch ID E3M2975

Print Analyst Name: Ashley M Dyer

Date: 7/14/2016

Analyst Signature: AMD

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
SV161935-89	DFTPP	50 ppm
SV161935-04	SIM internal	100 ppm
163039	DCM (Fisher)	—

Columns: Rtx-5Sil ms 30m x .25mm x .25µm

Method 8270D/625

Initial Cal. Method M3M2975Sim

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: [illegible]

Date: 7-18-16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution.	L+	IS	SU	Status (Data)	Comments
	3M62949	DFTPP				1					OK	930AM
	62950	IC2975-.2		BNASim	W	2					OK	SV161935-60C
	62951	-.1				3					OK	SV161935-60D
	62952	-.05				4					OK	SV161935-60E
	62953	-.02				5					OK	SV161935-60F
	62954	-.01				6					OK	SV161935-60G
	62955	-5				7					OK	SV161935-60A
	62956	-2.5				8					OK	SV161935-60B
	62957	IC2975-1				9					OK	SV161935-100A
	62958	IC2975-.5				10					OK	SV161935-100B
	62959	CV2975-1.0		BN	W	11					not using	1ADIOX1 OP617706
	62960	-1.0		Acid.	W	12					not using	acids1 SV161935-53 reinstall. 408PM.
												AMD

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

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SEMI-VOLATILE by GCMS ANALYSIS LOG

SGS ACCUTEST

Batch ID E3M2976

Print Analyst Name: Ashley M Dye

Date: 7/14/2016

Analyst Signature: AMD

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
SV16193589	DFTPP	50 ppm
SV16193501	SIM std. internal	100 ppm
163039	DCM (Fisher)	—

Columns: 12x154 in x 3.0 mm x 25 mm x 5 µm

Method 8270D/625

Initial Cal. Method M3M2975SIM

Injection Volume: 1 µL

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: 7-18-16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution.	L+	IS	SU	Status (Data)	Comments
	3M62961	DFTPP				1					OK	504PM
	62962	ICV29751.0		Acid 2nd	W	2					OK	SV16193576
	62963	-1.0		BN 2nd	W	3					OK	OP16177012
												AMD

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

7.7.8

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SEMI-VOLATILE by GCMS ANALYSIS LOG

SGS ACCUTEST

Batch ID E3M3004

Print Analyst Name: Shanice Grant

Analyst Signature: SG

Date: 8/2/2016

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
SV 16193589	dftpp	50ppm
SV 161935	sim std	0.5
SV 16193511 5	sim int mix	400ppm
163582	DCM (fisher)	—

Columns: Rtx5sil ms 30m x .25mm x .25µm

Method 8270D/625

Initial Cal. Method M3M2975sim

Injection Volume: 1.0 µL

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: 8-2-16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution.	L+	IS	SU	Status (Data)	Comments
	3M63387	dftpp				1					not using	
	63388	CC2975-.5				2					↓	blk split NG / Reinstall beam
	63389	DFTPP				1					not using	abundances ↑ / rerun
	63390	DFTPP				1					ok	1056AM
	63391	CC2975-.5				2					ok	
	63392	OP94535 OP94535-1834	94535			3			✓	✓	ok	
												continued on next page

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

SEMI-VOLATILE by GCMS ANALYSIS LOG

Batch ID E3M3004

Print Analyst Name: Ashley Mdy

Date: 8/2/2016

Analyst Signature: AMO

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
	see page 33	

Columns: RtX5SilMS30m x .25mm x .25µm

Method 8270D/625

Initial Cal. Method M3M2975cim

Injection Volume: mL

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: 8-2-16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution.	L+	IS	SU	Status (Data)	Comments
	3M63393	op95939-mbl	95939-1	AB8270	W	4			✓	✓	OK	
	63394	-bs12				5					rerun	moved to 3P.
	63395	JC24978-1		1:40 10x hap		6			✓	✓	OK	
	63396	-2				7			✓	✓	OK	
	63397	-3				8			✓	✓	OK	
	63398	-4				9			✓	✓	OK	
	63399	-5				10			✓	✓	OK	3:16PM
												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

SEMI-VOLATILE by GCMS ANALYSIS LOG

SGS ACCUTEST

Batch ID E3P 2503

Print Analyst Name: Hank Chao

Analyst Signature: HC

Date: 7/6/16

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
SV515791	DFTPP	50ppm
SV16A3594	SIM internal	400ppm
163B9	DCMFshed	—

Columns: Rtx-5Sil ms 30m x .25mm x .25

Method 8270D/625

Initial Cal. Method M3P2503SIM

Injection Volume: 1.0µL

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: AMC

Date: 7/8/16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution.	L+	IS	SU	Status (Data)	Comments
	3P54953	DFTPP				1					OK	9:12 am
	54954	ICC2503-1.0		BLASIM	W	2					not using	fix, ~~[illegible]~~ rerun as A file no[illegible]
	54955	ICC2503-1.0		BLASIM	W	2					OK	SV16A935-90A
	54956	IC2503-001				3					OK	SV16-1935-60G
	54957	-0.02				4					OK	-60F
	54958	-0.05				5					OK	-60E
	54959	-0.1				6					OK	-60D
	54960	-0.2				7					OK	-60C
	54961	-5				8					OK	-60A
	54962	-2.5				9					OK	-60B
	54963	-0.5				10					OK	-90B
	54964	ICV2503-1.0		BSIM2nd	W	11					OK	OP16A7972 pan ST Rerun.
	54965	-1.0		Acid2nd	W	12					OK	SV16A93596 phenol T

AMC

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 E3P2534

Print Analyst Name: Ashley Updyke

Date: 8/2/2016

Analyst Signature: AMO

Standard Data

Lot #	Description	Conc.

Standard Data

	Lot #	Description	Conc.
SV	16193589	dft pp	50 µm
SV	16193510A	sim std	1 µm
SV	16193511S	sim internal	400 µm
	162989	DCM (FS)	—

Columns: RxiFSi/ms30m×25mm×25µL

Method 8270D/625

Initial Cal. Method M3P2503sim

Injection Volume: µL

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: 8-3-16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution	L+	IS	SU	Status (Data)	Comments
	3P55400	DFTPP			W	1					OK	855AM
	55401	CC2503-1 CC2956		BNA sim	W	2					OK	
	55402	JC24258-1	95661	ABSIMNJ + 14 D10X	W	3			✓	✓	OK	
	55403A	-3				4			✓	✓	OK	from 00 A-file instrument shut down
	55404	-4				5			✓	✓	OK	
	55405	-5 ~~-6~~				6			✓	✓	OK	
	55406	JC24230-8				7			✓		RR	cannot report hits.
	55407	-10				8			✓	✓	OK	
	55408	OP95661A-MS		AB8270 sim		9			✓	✓	OK	
	55409	-MSD				10			✓	✓	OK	
	55410	OP95821A-MB1	95821	AB8270	W	11			✓	✓	OK	
	55411	-BS12				12			✓	✓	OK	
	55412	-MS				13			✓	✓	OK	
	55413	-MSD				14			✓	✓	OK	
	55414	JC24549-20		ABSIMNJ + 14 D10X		15			✓	✓	OK	
	55415	-21				16			✓	✓	OK	
	55416	-22				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

SGS ACCUTEST JC24978

SEMI-VOLATILE by GCMS ANALYSIS LOG

SGS ACCUTEST

Batch ID E3P2534

Print Analyst Name: Shanice Grant

Analyst Signature: SG

Date: 8-2-16

Columns: Rxi5silms 30m×.25mm×.25µm

Method 8270D | 625

Initial Cal. Method M3P2503sim

Injection Volume: 1.0 µL

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
	see page 95	

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: AMM Date: 8-3-16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution	L+	IS	SU	Status (Data)	Comments
	3P55417	JC24549-23	95821	AB8270simMJ +14D10X	W	18			✓	✓	RR	instrument carried over 8:35PM
	55418	JC24563-1				19			✓	✓	OK	
	55419	JC24606-1				20					Not using	} cont of Tune, RR 9:07
	55420	-2				21					↓	
	55421	OP95939MB	95939	AB8270	W	22			✓	✓	OK	run before 55407
	55422	-BS12				23			✓	✓	OK	hexbutadiene ↓ RR to carry failure
	55423	JC24978-6		1,4DIOX + nap.		24			✓	✓	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

SGS ACCUTEST JC24978

SEMI-VOLATILE by GCMS ANALYSIS LOG

SGS ACCUTEST

Batch ID E3P2546

Print Analyst Name: Ashley Mdye

Date: 8/9/2016

Analyst Signature: AMO

Columns: Rtx5sil ms 30m x 0.25mm x 0.25um

Method 8270D/625

Initial Cal. Method M3P2503sim

Injection Volume: 1uL

Standard Data

Lot#	Description	Conc.

Standard Data

Lot #	Description	Conc.
SV16193559	DFTPP	50ng
SV16193510	BSIM Std.	5ppm
SV16193515	OMSTd.	400ppm
163582	DCM Fish oil	—

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: 8-10-16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution.	L+	IS	SU	Status (Data)	Comments
	3P55585	DFTPP				1					OK	226PM.
	55586	CC503-5		BU75sim	W	2					OK	
	55587	QQ96153-mbl	96153-1	ABS270	W	3			✓	✓	OK	
	55588	JC25340-1		BSIM/ADD	X	4			✓	✓	OK	
	55589	JC25341-1		2mnap		5			✓	✓	OK	
	55590	-2				6			✓	✓	OK	
	55591	QQ95939-ms	95939-1	ABS270	W	7			✓	✓	OK	ran after 3S5587
	55592	-msd				8			✓	✓	OK	↓
	55593	QQ96072-mbl	96072-1	ABS270	W	9			✓	✓	OK	ran after 3P55587
												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.

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Form: OR015-07
Rev. Date: 1/19/16

7.7.12

7

LOGBOOK ID: 6-1744

ABN Aqueous Extraction Logbook

Date Started: 7/30/16 Time Started: 9:15am
Date Finished: 7/30/16 Time Finished: 4:15pm

Extract Method (CHECK OFF "√" /DO NOT CIRCLE):
Separatory Funnel: SW846 3510C/CLP/other ✓ 3510C SIM ✓
Continuous Liquid Liquid: SW846 3520C/CLP/other_____

BATCH # MS 95939	RACK# 816
Extracted by:	AD, ADC
Concentrated by:	AD, ADC
Vialed by:	AD, ADC
Relinquished by:	ADC
Accepted by:	
Supervisor Review:	DAT 7/30/16

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 H_2O	1000	1	4	clear	1		
	BS1			DI H_2O	1000	1	4	yellow	1		
	JC24878-1 MS		1	l. brown	495	1	4	yellow	1		
	MSD		1	l. brown	495	1	4	yellow	1		
	BS	12 SIM		DI H_2O	1000	1	4	clear	1		
	JC24878-2 MS		1	yellow	500	1	4	l. yellow	1		
	MSD		1	yellow	500	1	4	l. yellow	1		
1	JC24836-1	ABN	2	l. yellow	1000	1	4	l. yellow	1		
2	JC24878-1		2	l. brown	980	1	4	yellow	1		
3	-2		2	yellow	990	1	4	l. yellow	1		
4	-4		2	brown	1000	1	4	yellow	1		
5	-7		1	yellow	990	1	4	l. yellow	1		
6	-8		2	yellow	990	1	4	yellow	1		
7	-9		2	clear	1000	1	4	clear	1		
8	-10		1	clear	980	1	4	clear	1		
9	JC13380-80		1	clear	100	1	4	clear	1		
10	~~JC24816-1~~										
11	JC24816-1		3	brown	900	NA	4	clear	1	⊛	
12	JC24978-1		1	l. yellow	910	1	4	clear	1		
13	-2		1	l. yellow	950	1	4	clear	1		
14	-3		1	l. yellow	930	1	4	clear	1		
15	-4		1	l. yellow	930	1	4	clear	1		
16	-5		1	l. yellow	980	1	4	clear	1		
17	-6		1	clear	950	1	4	clear	1		
18											
19											
20											

1 ISTAT *

Comments: Okay to split MS/MSD & SIM MS/MSD, not enough bottles
~~* Sample depleted~~
⊛ HCl preserved

Equipment/ Range	ID	Observed Temp (°C)	Correction Factor (°C)	Corrected Temp (°C)	Pressure/ Flowrate
Buchi (65-71°C)					
Buchi Chiller					
Waterbath (70-80°C)	3,7	74.5, 73.9	-0.8, -0.1	73, 73	NA
Waterbath Chiller (GPM)	F2	2	—	—	1.7
NEVAP (32-38°C; LPM)	2	35.9	+0.1	36	10

SURROGATE	LOT #	CONC (ppm)	AMT (mL)
ABN	16177050	50	1

WITNESS SIGN: RG SPIKE SIGN: AD

MATRIX SPIKE	LOT #	CONC (ppm)	AMT (mL)
Acid	161935-106	50	Acid: 1
Acid (for SIM)			A(SIM): 0.1
Base #1	161935-114	50	1
Base #2	161935-127	50	1
Anilines	161935-111	50	1
BSIM	16177041	1	1

WITNESS SIGN: RG SPIKE SIGN: AD

SOLVENT	LOT #	BRAND	AMT (mL)
METH CHLOR	183582	Fisher	660

REAGENT	LOT #	BRAND
NaOH	157991	Fisher
H2SO4	2603B36	Ricca
Sodium Sulfate	148420	Fisher
Glass Wool	058926	Lab
Filter Paper		
pH strips	232515	Hydrion

SPECIAL PROCESSING INSTRUCTIONS

Rx Reason:

Spiking:

Weights/Volumes:

Required MS/MSD:

Final Volume:

Other:
* Bottle is HCl preserved, check pH!

SGS ACCUTEST INC.
Form: OP022A-08
Rev Date: 1/13/16

[redacted]