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

e-Hardcopy 2.0
Automated Report

Technical Report for

Anderson, Mulholland & Associates

BMSMC, Building 5 Area, PR

BM16.00.09

SGS Accutest Job Number: JC24133

Sampling Dates: 07/12/16 - 07/14/16

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: **476**

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)

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

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

Table of Contents

-1-

Section 1: Sample Summary 3
Section 2: Case Narrative/Conformance Summary 4
Section 3: Summary of Hits 5
Section 4: Sample Results 6
4.1: JC24133-1: OSGP7-GWS 7
4.2: JC24133-2: OSGP3-GWD 8
4.3: JC24133-3: OSGP3-GWS 9
4.4: JC24133-4: OSGP9-GWD 10
4.5: JC24133-5: OSGP10-GWD 11
4.6: JC24133-6: BPEB-10 12
4.7: JC24133-7: OSGP9-GWS 13
Section 5: Misc. Forms 14
5.1: Chain of Custody 15
5.2: Sample Tracking Chronicle 18
5.3: Internal Chain of Custody 19
Section 6: GC/MS Semi-volatiles - QC Data Summaries 22
6.1: Method Blank Summary 23
6.2: Blank Spike Summary 28
6.3: Matrix Spike/Matrix Spike Duplicate Summary 31
6.4: Instrument Performance Checks (DFTPP) 33
6.5: Internal Standard Area Summaries 45
6.6: Surrogate Recovery Summaries 50
6.7: Initial and Continuing Calibration Summaries 51
Section 7: GC/MS Semi-volatiles - Raw Data 98
7.1: Samples 99
7.2: Method Blanks 137
7.3: Blank Spikes 147
7.4: Matrix Spike/Matrix Spike Duplicates 156
7.5: Instrument Performance Checks (DFTPP) 170
7.6: Initial and Continuing Calibrations 242
7.7: Instrument Run Logs 455
7.8: Prep Logs 475

SGS Accutest

Sample Summary

Anderson, Mulholland & Associates

Job No: JC24133

BMSMC, Building 5 Area, PR
Project No: BM16.00.09

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
JC24133-1	07/12/16	10:50	TT	07/15/16	AQ	Ground Water	OSGP7-GWS
JC24133-2	07/12/16	13:15	TT	07/15/16	AQ	Ground Water	OSGP3-GWD
JC24133-3	07/12/16	15:10	TT	07/15/16	AQ	Ground Water	OSGP3-GWS
JC24133-4	07/13/16	12:45	TT	07/15/16	AQ	Ground Water	OSGP9-GWD
JC24133-5	07/14/16	12:55	TT	07/15/16	AQ	Ground Water	OSGP10-GWD
JC24133-6	07/14/16	12:55	RS	07/15/16	AQ	Ground Water	BPEB-10
JC24133-7	07/13/16	14:45	TT	07/18/16	AQ	Ground Water	OSGP9-GWS

CASE NARRATIVE / CONFORMANCE SUMMARY

Client:	Anderson, Mulholland & Associates	**Job No**	JC24133
Site:	BMSMC, Building 5 Area, PR	**Report Date**	7/22/2016 12:11:16 P

Between 07/15/2016 and 07/18/2016, 7 Sample(s), 0 Trip Blank(s) and 0 Field Blank(s) were received at SGS Accutest at a maximum temperature of 24.1C. Samples were intact and chemically preserved, unless noted below. A SGS Accutest Job Number of JC24133 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.Received 2nd cooler at an elevated temperature, proceed per PNR.

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:** OP95600A

- All samples were extracted within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JC24076-3MS, JC24076-3MSD were used as the QC samples indicated.
- Matrix Spike/Matrix Spike Duplicate Recovery(s) for Naphthalene are outside control limits. Outside control limits due to high level in sample relative to spike amount.

Matrix: AQ **Batch ID:** OP95633A

- All samples were extracted within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JC24177-1MS, JC24177-1MSD were used as the QC samples indicated.

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: JC24133
Account: Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR
Collected: 07/12/16 thru 07/14/16

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
JC24133-1	**OSGP7-GWS**					
1,4-Dioxane		97.6	1.1	0.054	ug/l	SW846 8270D BY SIM
JC24133-2	**OSGP3-GWD**					
1,4-Dioxane		396	21	1.0	ug/l	SW846 8270D BY SIM
JC24133-3	**OSGP3-GWS**					
1,4-Dioxane		157	11	0.54	ug/l	SW846 8270D BY SIM
JC24133-4	**OSGP9-GWD**					
1,4-Dioxane		21.9	1.1	0.054	ug/l	SW846 8270D BY SIM
JC24133-5	**OSGP10-GWD**					
1,4-Dioxane		11.2	1.1	0.056	ug/l	SW846 8270D BY SIM
JC24133-6	**BPEB-10**					
No hits reported in this sample.						
JC24133-7	**OSGP9-GWS**					
1,4-Dioxane		19.1	1.1	0.053	ug/l	SW846 8270D BY SIM

Sample Results

Report of Analysis

SGS Accutest

Report of Analysis

Client Sample ID:	OSGP7-GWS		
Lab Sample ID:	JC24133-1	**Date Sampled:**	07/12/16
Matrix:	AQ - Ground Water	**Date Received:**	07/15/16
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	3M62996.D	1	07/16/16	JJ	07/15/16	OP95600A	E3M2979
Run #2	5P29770.D	1	07/18/16	AN	07/15/16	OP95600A	E5P1518

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

CAS No.	Compound	Result	RL	MDL	Units	Q
91-20-3	Naphthalene	ND	0.11	0.033	ug/l	
123-91-1	1,4-Dioxane	97.6 [a]	1.1	0.054	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	102%	88%	24-125%
321-60-8	2-Fluorobiphenyl	101%	107%	19-127%
1718-51-0	Terphenyl-d14	99%	92%	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:	OSGP3-GWD		
Lab Sample ID:	JC24133-2	**Date Sampled:**	07/12/16
Matrix:	AQ - Ground Water	**Date Received:**	07/15/16
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	3M62997.D	1	07/16/16	JJ	07/15/16	OP95600A	E3M2979
Run #2	5P29760.D	20	07/18/16	AN	07/15/16	OP95600A	E5P1518

	Initial Volume	Final Volume
Run #1	975 ml	1.0 ml
Run #2	975 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	396 [a]	21	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	100%	83%	24-125%
321-60-8	2-Fluorobiphenyl	97%	102%	19-127%
1718-51-0	Terphenyl-d14	94%	94%	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:	OSGP3-GWS		
Lab Sample ID:	JC24133-3	**Date Sampled:**	07/12/16
Matrix:	AQ - Ground Water	**Date Received:**	07/15/16
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	3M62998.D	1	07/16/16	JJ	07/15/16	OP95600A	E3M2979
Run #2	5P29761.D	10	07/18/16	AN	07/15/16	OP95600A	E5P1518

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

CAS No.	Compound	Result	RL	MDL	Units	Q
91-20-3	Naphthalene	ND	0.11	0.033	ug/l	
123-91-1	1,4-Dioxane	157 [a]	11	0.54	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	84%	65%	24-125%
321-60-8	2-Fluorobiphenyl	82%	79%	19-127%
1718-51-0	Terphenyl-d14	75%	70%	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:	OSGP9-GWD		
Lab Sample ID:	JC24133-4	**Date Sampled:**	07/13/16
Matrix:	AQ - Ground Water	**Date Received:**	07/15/16
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	3M62999.D	1	07/16/16	JJ	07/15/16	OP95600A	E3M2979
Run #2	5P29762.D	1	07/18/16	AN	07/15/16	OP95600A	E5P1518

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

CAS No.	Compound	Result	RL	MDL	Units	Q
91-20-3	Naphthalene	ND	0.11	0.033	ug/l	
123-91-1	1,4-Dioxane	21.9 [a]	1.1	0.054	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	99%	82%	24-125%
321-60-8	2-Fluorobiphenyl	97%	101%	19-127%
1718-51-0	Terphenyl-d14	78%	74%	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:	OSGP10-GWD		
Lab Sample ID:	JC24133-5	**Date Sampled:**	07/14/16
Matrix:	AQ - Ground Water	**Date Received:**	07/15/16
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	3M63000.D	1	07/16/16	JJ	07/15/16	OP95600A	E3M2979
Run #2	5P29763.D	1	07/18/16	AN	07/15/16	OP95600A	E5P1518

	Initial Volume	Final Volume
Run #1	875 ml	1.0 ml
Run #2	875 ml	1.0 ml

CAS No.	Compound	Result	RL	MDL	Units	Q
91-20-3	Naphthalene	ND	0.11	0.034	ug/l	
123-91-1	1,4-Dioxane	11.2 [a]	1.1	0.056	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	97%	83%	24-125%
321-60-8	2-Fluorobiphenyl	94%	103%	19-127%
1718-51-0	Terphenyl-d14	73%	72%	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:	BPEB-10		
Lab Sample ID:	JC24133-6	**Date Sampled:**	07/14/16
Matrix:	AQ - Ground Water	**Date Received:**	07/15/16
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	3M63001.D	1	07/16/16	JJ	07/15/16	OP95600A	E3M2979
Run #2							

	Initial Volume	Final Volume
Run #1	875 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
91-20-3	Naphthalene	ND	0.11	0.034	ug/l	
123-91-1	1,4-Dioxane	ND	0.11	0.056	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	104%		24-125%
321-60-8	2-Fluorobiphenyl	100%		19-127%
1718-51-0	Terphenyl-d14	113%		10-119%

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

SGS Accutest

Report of Analysis

Client Sample ID:	OSGP9-GWS		
Lab Sample ID:	JC24133-7	**Date Sampled:**	07/13/16
Matrix:	AQ - Ground Water	**Date Received:**	07/18/16
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	3M63049.D	1	07/19/16	AD	07/18/16	OP95633A	E3M2982
Run #2	3E85324.D	1	07/19/16	AN	07/18/16	OP95633A	E3E3739

	Initial Volume	Final Volume
Run #1	925 ml	1.0 ml
Run #2	925 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	19.1 [a]	1.1	0.053	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	63%	83%	24-125%
321-60-8	2-Fluorobiphenyl	79%	77%	19-127%
1718-51-0	Terphenyl-d14	69%	68%	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

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

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

ACCUTEST LABORATORIES

CHAIN OF CUSTODY

PAGE 1 OF 1 (PN)

NJ

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

FE 809862883486 Bottle Order Control #
Accutest Quote # Accutest Job # JC 24133

Client / Reporting Information	Project Information
Company Name: Anderson Mulholland & Associates	Project Name: BMSMC Phase 2A Release Assessment
Street Address: 2700 Westchester Avenue, Suite 417	Street:
City State Zip: Purchase NY 10577	City State: Humacao PR
Project Contact: Terry Taylor	Project #: 02i
Phone #: 914-251-0400	Client Purchase Order #:
Sampler(s) Name(s): N. Rivera, R. Stuart, R. O'Reilly, T. Taylor	Project Manager: Terry Taylor
E-mail:	Billing Information (If different from Report to)
Fax #:	Company Name:
Phone #:	Street Address:
	City State Zip:
	Attention:

Requested Analysis (see TEST CODE sheet): 1,4-Dioxane and Naphthalene via 8270D SIM

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

Accutest Sample #	Field ID / Point of Collection	MEOH/DI Vial #	Collection Date	Collection Time	Sampled by	Matrix	# of bottles	HCl	NaOH	HNO3	H2SO4	NONE	DI Water	MEOH	ENCORE	1,4-Dioxane and Naphthalene via 8270D SIM	LAB USE ONLY
1	OSGP 7-GWS		7/12/16	1050	TT	GW	2					2				X	E59
2	OSGP 3-GWD		7/12/16	1315	TT	GW	2					2				X	
3	OSGP 3-GWS		7/12/16	1510	TT	GW	2					2				X	
4	OSGP 9-GWD		7/13/16	1245	TT	GW	2					2				X	
5	OSGP9-GWS-7		7/13/16	1445	TT	GW	2					2				X	
6	OSGP10-GWD-5		7/14/16	1255	TT	GW	2					2				X	
7	BPEB-10-6		7/14/16	1255	RS	EB	2					2				X	

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 ~~7-18-16 3B~~
LABEL VERIFICATION

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	7-14-16 700	1 FedEx	2 FEDEX	7-15-16 1000	2
3		3	4		4
5		5			

Custody Seal # 295, 296 — Intact / Not intact — Preserved where applicable — On Ice — Cooler Temp. 24.1 °C TP

5.1 5

JC24133: Chain of Custody
Page 1 of 3

SGS Accutest Sample Receipt Summary

Job Number: JC24133 **Client:** Anderson Mulholland **Project:** BMS

Date / Time Received: 7/15/2016 9:30:00 AM **Delivery Method:** FedEx **Airbill #'s:** 8098 6288 3486

Cooler Temps (Raw Measured) °C: Cooler 1: (3.6);

Cooler Temps (Corrected) °C: Cooler 1: (4.5);

Cooler Security	Y	or	N
1. Custody Seals Present:	☑		☐
2. Custody Seals Intact:	☑		☐
3. COC Present:	☑		☐
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:	N/A		

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

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

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

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

Comments

1. Only received one cooler. The cooler with tracking number 7835 9204 0427 has been delayed in Memphis, TN.
   -Did not receive sample OSGP9-GWS @ 14:45
   -Received limited volume (1x950ml bottle) for samples -2 through -6
2. Collection time listed on -6 is 09:30, not 12:55. Id and Date are a match.

3) REVISION: 7/18/16 RECEIVED 2ND COOLER 7/18/16 @ 10:00. TEMP UPON RECEIPT 24.1 DEG C IP.ICE MELTED CUSTODY SEAL # 296 INTACT.

4) -2 THRU -6 2ND 950ML BOTTLE RECEIVED. -4 2ND 950 ML BOTTLE RECEIVED BROKEN.

5) -6 2ND 950ML BOTTLE FOR BPEB-10 ALSO RECEIVED WITH A COLLECTION TIME OF 9:30 ID AND DATE MATCH, AS DID THE 1ST BOTTLE RECEIVED IN SHIPMENT ON 7/15/16.

6) THE 2 MISSING 950ML BOTTLES FOR OSGP9-GWS WERE RECEIVED, TO BECOME -7.

For elevated receipt temperature of cooler received on 7/18/16 please proceed with analysis per Addison Rice

JC24133-6, BPEB-10, please use sample time from coc per David Lindstrand

JC24133: Chain of Custody
Page 3 of 3

Internal Sample Tracking Chronicle

Anderson, Mulholland & Associates

Job No: JC24133

BMSMC, Building 5 Area, PR
Project No: BM16.00.09

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
JC24133-1	Collected: 12-JUL-16 10:50 By: TT		Received: 15-JUL-16 By: TH			
OSGP7-GWS						
JC24133-1	SW846 8270D BY SIM	16-JUL-16 00:53	JJ	15-JUL-16	RF	BSIM + NAP
JC24133-1	SW846 8270D BY SIM	18-JUL-16 15:30	AN	15-JUL-16	RF	B8270SIM14DIOX
JC24133-2	Collected: 12-JUL-16 13:15 By: TT		Received: 15-JUL-16 By: TH			
OSGP3-GWD						
JC24133-2	SW846 8270D BY SIM	16-JUL-16 01:26	JJ	15-JUL-16	RF	BSIM + NAP
JC24133-2	SW846 8270D BY SIM	18-JUL-16 12:07	AN	15-JUL-16	RF	B8270SIM14DIOX
JC24133-3	Collected: 12-JUL-16 15:10 By: TT		Received: 15-JUL-16 By: TH			
OSGP3-GWS						
JC24133-3	SW846 8270D BY SIM	16-JUL-16 01:59	JJ	15-JUL-16	RF	BSIM + NAP
JC24133-3	SW846 8270D BY SIM	18-JUL-16 12:32	AN	15-JUL-16	RF	B8270SIM14DIOX
JC24133-4	Collected: 13-JUL-16 12:45 By: TT		Received: 15-JUL-16 By: TH			
OSGP9-GWD						
JC24133-4	SW846 8270D BY SIM	16-JUL-16 02:32	JJ	15-JUL-16	RF	BSIM + NAP
JC24133-4	SW846 8270D BY SIM	18-JUL-16 12:58	AN	15-JUL-16	RF	B8270SIM14DIOX
JC24133-5	Collected: 14-JUL-16 12:55 By: TT		Received: 15-JUL-16 By: TH			
OSGP10-GWD						
JC24133-5	SW846 8270D BY SIM	16-JUL-16 03:05	JJ	15-JUL-16	RF	BSIM + NAP
JC24133-5	SW846 8270D BY SIM	18-JUL-16 13:23	AN	15-JUL-16	RF	B8270SIM14DIOX
JC24133-6	Collected: 14-JUL-16 12:55 By: RS		Received: 15-JUL-16 By: TH			
BPEB-10						
JC24133-6	SW846 8270D BY SIM	16-JUL-16 03:37	JJ	15-JUL-16	RF	B8270SIM14DIOX,BSIM + NAP
JC24133-7	Collected: 13-JUL-16 14:45 By: TT		Received: 18-JUL-16 By: RL			
OSGP9-GWS						
JC24133-7	SW846 8270D BY SIM	19-JUL-16 12:09	AD	18-JUL-16	RF	BSIM + NAP
JC24133-7	SW846 8270D BY SIM	19-JUL-16 16:07	AN	18-JUL-16	RF	B8270SIM14DIOX

SGS Accutest Internal Chain of Custody

Job Number: JC24133
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR
Received: 07/15/16

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JC24133-1.1	Secured Storage	Dwayne Johnson	07/15/16 14:17	Retrieve from Storage
JC24133-1.1	Dwayne Johnson	Secured Staging Area	07/15/16 14:17	Return to Storage
JC24133-1.1	Secured Staging Area	Ryan Fantasia	07/15/16 14:53	Retrieve from Storage
JC24133-1.1	Ryan Fantasia		07/15/16 21:26	Depleted
JC24133-1.1.1	Ryan Fantasia	Organics Prep	07/15/16 15:21	Extract from JC24133-1.1
JC24133-1.1.1	Organics Prep	Ryan Fantasia	07/15/16 21:29	Extract from JC24133-1.1
JC24133-1.1.1	Ryan Fantasia	Extract Storage	07/15/16 21:29	Return to Storage
JC24133-1.1.1	Extract Storage	Julius Johnson	07/15/16 22:40	Retrieve from Storage
JC24133-1.1.1	Julius Johnson	GCMS3M	07/15/16 22:41	Load on Instrument
JC24133-1.1.1	GCMS3M	Kristi Schollenberger	07/17/16 15:15	Unload from Instrument
JC24133-1.1.1	Kristi Schollenberger	GCMSZ	07/17/16 15:15	Load on Instrument
JC24133-1.1.1	GCMSZ	Arielle Cocozza	07/18/16 11:10	Unload from Instrument
JC24133-1.1.1	Arielle Cocozza	Extract Freezer	07/18/16 11:10	Return to Storage
JC24133-1.1.1	Extract Freezer	Ashley Noble	07/18/16 11:45	Retrieve from Storage
JC24133-1.1.1	Ashley Noble	GCMS5P	07/18/16 11:45	Load on Instrument
JC24133-1.1.1	GCMS5P	Ashley Noble	07/19/16 16:29	Unload from Instrument
JC24133-1.1.1	Ashley Noble	Extract Freezer	07/19/16 16:29	Return to Storage
JC24133-2.1	Secured Storage	Dwayne Johnson	07/15/16 14:17	Retrieve from Storage
JC24133-2.1	Dwayne Johnson	Secured Staging Area	07/15/16 14:17	Return to Storage
JC24133-2.1	Secured Staging Area	Ryan Fantasia	07/15/16 14:53	Retrieve from Storage
JC24133-2.1	Ryan Fantasia		07/15/16 21:26	Depleted
JC24133-2.1.1	Ryan Fantasia	Organics Prep	07/15/16 15:21	Extract from JC24133-2.1
JC24133-2.1.1	Organics Prep	Ryan Fantasia	07/15/16 21:29	Extract from JC24133-2.1
JC24133-2.1.1	Ryan Fantasia	Extract Storage	07/15/16 21:29	Return to Storage
JC24133-2.1.1	Extract Storage	Julius Johnson	07/15/16 22:40	Retrieve from Storage
JC24133-2.1.1	Julius Johnson	GCMS3M	07/15/16 22:41	Load on Instrument
JC24133-2.1.1	GCMS3M	Kristi Schollenberger	07/17/16 15:15	Unload from Instrument
JC24133-2.1.1	Kristi Schollenberger	GCMSZ	07/17/16 15:15	Load on Instrument
JC24133-2.1.1	Arielle Cocozza	Extract Freezer	07/18/16 11:10	Return to Storage
JC24133-2.1.1	GCMSZ	Arielle Cocozza	07/18/16 11:10	Unload from Instrument
JC24133-2.1.1	Extract Freezer	Ashley Noble	07/18/16 11:45	Retrieve from Storage
JC24133-2.1.1	Ashley Noble	GCMS5P	07/18/16 11:45	Load on Instrument
JC24133-2.1.1	GCMS5P	Ashley Noble	07/19/16 16:29	Unload from Instrument
JC24133-2.1.1	Ashley Noble	Extract Freezer	07/19/16 16:29	Return to Storage
JC24133-3.1	Secured Storage	Dwayne Johnson	07/15/16 14:17	Retrieve from Storage
JC24133-3.1	Dwayne Johnson	Secured Staging Area	07/15/16 14:17	Return to Storage
JC24133-3.1	Secured Staging Area	Ryan Fantasia	07/15/16 14:53	Retrieve from Storage
JC24133-3.1	Ryan Fantasia		07/15/16 21:26	Depleted
JC24133-3.1.1	Ryan Fantasia	Organics Prep	07/15/16 15:21	Extract from JC24133-3.1

SGS Accutest Internal Chain of Custody

Job Number: JC24133
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR
Received: 07/15/16

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JC24133-3.1.1	Organics Prep	Ryan Fantasia	07/15/16 21:29	Extract from JC24133-3.1
JC24133-3.1.1	Ryan Fantasia	Extract Storage	07/15/16 21:29	Return to Storage
JC24133-3.1.1	Extract Storage	Julius Johnson	07/15/16 22:40	Retrieve from Storage
JC24133-3.1.1	Julius Johnson	GCMS3M	07/15/16 22:41	Load on Instrument
JC24133-3.1.1	GCMS3M	Kristi Schollenberger	07/17/16 15:15	Unload from Instrument
JC24133-3.1.1	Kristi Schollenberger	GCMSZ	07/17/16 15:15	Load on Instrument
JC24133-3.1.1	Arielle Cocozza	Extract Freezer	07/18/16 11:10	Return to Storage
JC24133-3.1.1	GCMSZ	Arielle Cocozza	07/18/16 11:10	Unload from Instrument
JC24133-3.1.1	Extract Freezer	Ashley Noble	07/18/16 11:45	Retrieve from Storage
JC24133-3.1.1	Ashley Noble	GCMS5P	07/18/16 11:45	Load on Instrument
JC24133-3.1.1	GCMS5P	Ashley Noble	07/19/16 16:29	Unload from Instrument
JC24133-3.1.1	Ashley Noble	Extract Freezer	07/19/16 16:29	Return to Storage
JC24133-4.1	Secured Storage	Dwayne Johnson	07/15/16 14:17	Retrieve from Storage
JC24133-4.1	Dwayne Johnson	Secured Staging Area	07/15/16 14:17	Return to Storage
JC24133-4.1	Secured Staging Area	Ryan Fantasia	07/15/16 14:53	Retrieve from Storage
JC24133-4.1	Ryan Fantasia		07/15/16 21:26	Depleted
JC24133-4.1.1	Ryan Fantasia	Organics Prep	07/15/16 15:21	Extract from JC24133-4.1
JC24133-4.1.1	Organics Prep	Ryan Fantasia	07/15/16 21:29	Extract from JC24133-4.1
JC24133-4.1.1	Ryan Fantasia	Extract Storage	07/15/16 21:29	Return to Storage
JC24133-4.1.1	Extract Storage	Julius Johnson	07/15/16 22:40	Retrieve from Storage
JC24133-4.1.1	Julius Johnson	GCMS3M	07/15/16 22:41	Load on Instrument
JC24133-4.1.1	GCMS3M	Kristi Schollenberger	07/17/16 15:15	Unload from Instrument
JC24133-4.1.1	Kristi Schollenberger	GCMSZ	07/17/16 15:15	Load on Instrument
JC24133-4.1.1	Arielle Cocozza	Extract Freezer	07/18/16 11:10	Return to Storage
JC24133-4.1.1	GCMSZ	Arielle Cocozza	07/18/16 11:10	Unload from Instrument
JC24133-4.1.1	Extract Freezer	Ashley Noble	07/18/16 11:45	Retrieve from Storage
JC24133-4.1.1	Ashley Noble	GCMS5P	07/18/16 11:45	Load on Instrument
JC24133-4.1.1	GCMS5P	Ashley Noble	07/19/16 16:29	Unload from Instrument
JC24133-4.1.1	Ashley Noble	Extract Freezer	07/19/16 16:29	Return to Storage
JC24133-5.1	Secured Storage	Dwayne Johnson	07/15/16 14:17	Retrieve from Storage
JC24133-5.1	Dwayne Johnson	Secured Staging Area	07/15/16 14:17	Return to Storage
JC24133-5.1	Secured Staging Area	Ryan Fantasia	07/15/16 14:53	Retrieve from Storage
JC24133-5.1	Ryan Fantasia		07/15/16 21:26	Depleted
JC24133-5.1.1	Ryan Fantasia	Organics Prep	07/15/16 15:21	Extract from JC24133-5.1
JC24133-5.1.1	Organics Prep	Ryan Fantasia	07/15/16 21:29	Extract from JC24133-5.1
JC24133-5.1.1	Ryan Fantasia	Extract Storage	07/15/16 21:29	Return to Storage
JC24133-5.1.1	Extract Storage	Julius Johnson	07/15/16 22:40	Retrieve from Storage
JC24133-5.1.1	Julius Johnson	GCMS3M	07/15/16 22:41	Load on Instrument
JC24133-5.1.1	GCMS3M	Kristi Schollenberger	07/17/16 15:15	Unload from Instrument
JC24133-5.1.1	Kristi Schollenberger	GCMSZ	07/17/16 15:15	Load on Instrument

SGS Accutest Internal Chain of Custody

Job Number: JC24133
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR
Received: 07/15/16

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JC24133-5.1.1	GCMSZ	Arielle Cocozza	07/18/16 11:10	Unload from Instrument
JC24133-5.1.1	Arielle Cocozza	Extract Freezer	07/18/16 11:10	Return to Storage
JC24133-5.1.1	Extract Freezer	Ashley Noble	07/18/16 11:45	Retrieve from Storage
JC24133-5.1.1	Ashley Noble	GCMS5P	07/18/16 11:45	Load on Instrument
JC24133-5.1.1	GCMS5P	Ashley Noble	07/19/16 16:29	Unload from Instrument
JC24133-5.1.1	Ashley Noble	Extract Freezer	07/19/16 16:29	Return to Storage
JC24133-6.1	Secured Storage	Dwayne Johnson	07/15/16 14:17	Retrieve from Storage
JC24133-6.1	Dwayne Johnson	Secured Staging Area	07/15/16 14:17	Return to Storage
JC24133-6.1	Secured Staging Area	Ryan Fantasia	07/15/16 14:53	Retrieve from Storage
JC24133-6.1	Ryan Fantasia		07/15/16 21:26	Depleted
JC24133-6.1.1	Ryan Fantasia	Organics Prep	07/15/16 15:21	Extract from JC24133-6.1
JC24133-6.1.1	Organics Prep	Ryan Fantasia	07/15/16 21:29	Extract from JC24133-6.1
JC24133-6.1.1	Ryan Fantasia	Extract Storage	07/15/16 21:29	Return to Storage
JC24133-6.1.1	Extract Storage	Julius Johnson	07/15/16 22:40	Retrieve from Storage
JC24133-6.1.1	Julius Johnson	GCMS3M	07/15/16 22:41	Load on Instrument
JC24133-6.1.1	GCMS3M	Kristi Schollenberger	07/17/16 15:15	Unload from Instrument
JC24133-6.1.1	Kristi Schollenberger	GCMSZ	07/17/16 15:15	Load on Instrument
JC24133-6.1.1	GCMSZ	Kristi Schollenberger	07/17/16 15:16	Unload from Instrument
JC24133-6.1.1	Kristi Schollenberger	Extract Freezer	07/17/16 15:16	Return to Storage
JC24133-7.2	Secured Storage	Stephen Domke	07/18/16 15:57	Retrieve from Storage
JC24133-7.2	Stephen Domke		07/18/16 23:58	Depleted
JC24133-7.2.1	Stephen Domke	Organics Prep	07/18/16 16:24	Extract from JC24133-7.2
JC24133-7.2.1	Organics Prep	Ryan Fantasia	07/18/16 23:37	Extract from JC24133-7.2
JC24133-7.2.1	Ryan Fantasia	Extract Storage	07/18/16 23:37	Return to Storage
JC24133-7.2.1	Extract Storage	Hank Chao	07/19/16 09:57	Retrieve from Storage
JC24133-7.2.1	Hank Chao	GCMS3M	07/19/16 09:57	Load on Instrument

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: JC24133
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP95600A-MB1	3M62992.D	1	07/15/16	JJ	07/15/16	OP95600A	E3M2979

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

JC24133-1, JC24133-2, JC24133-3, JC24133-4, JC24133-5, JC24133-6

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	55%	14-81%
4165-62-2	Phenol-d5	36%	11-54%
118-79-6	2,4,6-Tribromophenol	98%	35-145%
4165-60-0	Nitrobenzene-d5	108%	24-125%
321-60-8	2-Fluorobiphenyl	95%	19-127%
1718-51-0	Terphenyl-d14	111%	10-119%

Method Blank Summary

Job Number: JC24133
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP95600A-MB1	3M63013.D	1	07/18/16	AD	07/15/16	OP95600A	E3M2980

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

JC24133-1, JC24133-2, JC24133-3, JC24133-4, JC24133-5, JC24133-6

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	55%	14-81%
4165-62-2	Phenol-d5	36%	11-54%
118-79-6	2,4,6-Tribromophenol	90%	35-145%
4165-60-0	Nitrobenzene-d5	97%	24-125%
321-60-8	2-Fluorobiphenyl	80%	19-127%
1718-51-0	Terphenyl-d14	109%	10-119%

Method Blank Summary

Job Number: JC24133
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP95600A-MB1	5P29759.D	1	07/18/16	AN	07/15/16	OP95600A	E5P1518

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

JC24133-1, JC24133-2, JC24133-3, JC24133-4, JC24133-5, JC24133-6

CAS No.	Compound	Result	RL	MDL	Units	Q
91-20-3	Naphthalene	ND	1.0	0.029	ug/l	
123-91-1	1,4-Dioxane	ND	1.0	0.049	ug/l	

CAS No.	Surrogate Recoveries		Limits
367-12-4	2-Fluorophenol	44%	14-81%
4165-62-2	Phenol-d5	30%	11-54%
118-79-6	2,4,6-Tribromophenol	103%	35-145%
4165-60-0	Nitrobenzene-d5	91%	24-125%
321-60-8	2-Fluorobiphenyl	104%	19-127%
1718-51-0	Terphenyl-d14	107%	10-119%

Method Blank Summary

Job Number: JC24133
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP95633A-MB1	3M63045.D	1	07/19/16	AD	07/18/16	OP95633A	E3M2982

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

JC24133-7

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
4165-60-0	Nitrobenzene-d5	64%	24-125%
321-60-8	2-Fluorobiphenyl	73%	19-127%
1718-51-0	Terphenyl-d14	83%	10-119%

Method Blank Summary

Job Number: JC24133
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP95633A-MB1	3E85325.D	1	07/19/16	AN	07/18/16	OP95633A	E3E3739

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

JC24133-7

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
4165-60-0	Nitrobenzene-d5	85%	24-125%
321-60-8	2-Fluorobiphenyl	74%	19-127%
1718-51-0	Terphenyl-d14	85%	10-119%

Blank Spike Summary

Job Number: JC24133
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP95600A-BS12	3M62993.D	1	07/15/16	JJ	07/15/16	OP95600A	E3M2979

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

JC24133-1, JC24133-2, JC24133-3, JC24133-4, JC24133-5, JC24133-6

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
91-20-3	Naphthalene	1	0.793	79	40-119
123-91-1	1,4-Dioxane	1	0.512	51	20-160

CAS No.	Surrogate Recoveries	BSP	Limits
367-12-4	2-Fluorophenol	49%	14-81%
4165-62-2	Phenol-d5	35%	11-54%
118-79-6	2,4,6-Tribromophenol	91%	35-145%
4165-60-0	Nitrobenzene-d5	97%	24-125%
321-60-8	2-Fluorobiphenyl	89%	19-127%
1718-51-0	Terphenyl-d14	111%	10-119%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JC24133
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP95600A-BS12	3M63014.D	1	07/18/16	AD	07/15/16	OP95600A	E3M2980

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

JC24133-1, JC24133-2, JC24133-3, JC24133-4, JC24133-5, JC24133-6

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
91-20-3	Naphthalene	1	0.853	85	40-119
123-91-1	1,4-Dioxane	1	0.532	53	20-160

CAS No.	Surrogate Recoveries	BSP	Limits
367-12-4	2-Fluorophenol	53%	14-81%
4165-62-2	Phenol-d5	37%	11-54%
118-79-6	2,4,6-Tribromophenol	85%	35-145%
4165-60-0	Nitrobenzene-d5	90%	24-125%
321-60-8	2-Fluorobiphenyl	77%	19-127%
1718-51-0	Terphenyl-d14	106%	10-119%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JC24133
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP95633A-BS12	3M63046.D	1	07/19/16	AD	07/18/16	OP95633A	E3M2982

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

JC24133-7

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
91-20-3	Naphthalene	1	0.603	60	40-119
123-91-1	1,4-Dioxane	1	0.384	38	20-160

CAS No.	Surrogate Recoveries	BSP	Limits
4165-60-0	Nitrobenzene-d5	60%	24-125%
321-60-8	2-Fluorobiphenyl	66%	19-127%
1718-51-0	Terphenyl-d14	90%	10-119%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JC24133
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP95600A-MS	3M63015.D	1	07/18/16	AD	07/15/16	OP95600A	E3M2980
OP95600A-MSD	3M63016.D	1	07/18/16	AD	07/15/16	OP95600A	E3M2980
JC24076-3	3M63017.D	1	07/18/16	AD	07/15/16	OP95600A	E3M2980

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

JC24133-1, JC24133-2, JC24133-3, JC24133-4, JC24133-5, JC24133-6

CAS No.	Compound	JC24076-3 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	4.03		2	9.95	296* [a]	2	9.87	292* [a]	1	23-140/36
123-91-1	1,4-Dioxane	ND		2	1.20	60	2	1.26	63	5	20-160/30

CAS No.	Surrogate Recoveries	MS	MSD	JC24076-3	Limits
367-12-4	2-Fluorophenol	73%	69%	49%	14-81%
4165-62-2	Phenol-d5	58%* [b]	56%* [b]	33%	11-54%
118-79-6	2,4,6-Tribromophenol	84%	88%	66%	35-145%
4165-60-0	Nitrobenzene-d5	89%	88%	78%	24-125%
321-60-8	2-Fluorobiphenyl	82%	83%	67%	19-127%
1718-51-0	Terphenyl-d14	100%	98%	81%	10-119%

(a) Outside control limits due to high level in sample relative to spike amount.
(b) Outside of in house control limits, but within reasonable method recovery limits.

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JC24133
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP95633A-MS	3M63047.D	1	07/19/16	AD	07/18/16	OP95633A	E3M2982
OP95633A-MSD	3M63048.D	1	07/19/16	AD	07/18/16	OP95633A	E3M2982
JC24177-1	3M63050.D	1	07/19/16	AD	07/18/16	OP95633A	E3M2982

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

JC24133-7

CAS No.	Compound	JC24177-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
91-20-3	Naphthalene	ND		2.22	1.46	66	2.22	1.42	64	3	23-140/36
123-91-1	1,4-Dioxane	0.184		2.22	1.21	46	2.22	1.21	46	0	20-160/30

CAS No.	Surrogate Recoveries	MS	MSD	JC24177-1	Limits
4165-60-0	Nitrobenzene-d5	65%	62%	64%	24-125%
321-60-8	2-Fluorobiphenyl	77%	78%	80%	19-127%
1718-51-0	Terphenyl-d14	88%	89%	88%	10-119%

* = Outside of Control Limits.

Instrument Performance Check (DFTPP)

Job Number: JC24133
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample: E3E3699-DFTPP
Lab File ID: 3E84385.D
Instrument ID: GCMS3E
Injection Date: 06/22/16
Injection Time: 09:48

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	19816	43.1		Pass
68	Less than 2.0% of mass 69	138	0.30	(0.67) [a]	Pass
69	Mass 69 relative abundance	20559	44.7		Pass
70	Less than 2.0% of mass 69	52	0.11	(0.25) [a]	Pass
127	40.0 - 60.0% of mass 198	27055	58.8		Pass
197	Less than 1.0% of mass 198	0	0.00		Pass
198	Base peak, 100% relative abundance	46000	100.0		Pass
199	5.0 - 9.0% of mass 198	3276	7.12		Pass
275	10.0 - 30.0% of mass 198	13103	28.5		Pass
365	1.0 - 100.0% of mass 198	2054	4.47		Pass
441	Present, but less than mass 443	5905	12.8	(83.4) [b]	Pass
442	40.0 - 100.0% of mass 198	36501	79.4		Pass
443	17.0 - 23.0% of mass 442	7084	15.4	(19.4) [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
E3E3699-IC3699	3E84387.D	06/22/16	10:40	00:52	Initial cal 2
E3E3699-IC3699	3E84388.D	06/22/16	11:07	01:19	Initial cal 1
E3E3699-IC3699	3E84389.D	06/22/16	11:34	01:46	Initial cal 100
E3E3699-IC3699	3E84390.D	06/22/16	12:02	02:14	Initial cal 80
E3E3699-IC3699	3E84391.D	06/22/16	12:29	02:41	Initial cal 25
E3E3699-IC3699	3E84392.D	06/22/16	12:56	03:08	Initial cal 10
E3E3699-IC3699	3E84393.D	06/22/16	13:23	03:35	Initial cal 5
E3E3699-ICC3699	3E84394.D	06/22/16	13:50	04:02	Initial cal 50
E3E3699-ICV3699	3E84395.D	06/22/16	14:17	04:29	Initial cal verification 50
E3E3699-ICV3699	3E84396.D	06/22/16	14:44	04:56	Initial cal verification 50
E3E3699-ICV3699	3E84397.D	06/22/16	15:11	05:23	Initial cal verification 50
E3E3699-ICV3699	3E84398.D	06/22/16	15:39	05:51	Initial cal verification 50
E3E3699-ICV3699	3E84400.D	06/22/16	16:33	06:45	Initial cal verification 50

Instrument Performance Check (DFTPP)

Job Number: JC24133
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample: E3E3700-DFTPP
Lab File ID: 3E84407.D
Instrument ID: GCMS3E
Injection Date: 06/22/16
Injection Time: 18:13

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	13193	31.3		Pass
68	Less than 2.0% of mass 69	54	0.13	(0.36) [a]	Pass
69	Mass 69 relative abundance	15136	35.9		Pass
70	Less than 2.0% of mass 69	60	0.14	(0.40) [a]	Pass
127	40.0 - 60.0% of mass 198	21600	51.3		Pass
197	Less than 1.0% of mass 198	0	0.00		Pass
198	Base peak, 100% relative abundance	42130	100.0		Pass
199	5.0 - 9.0% of mass 198	2745	6.52		Pass
275	10.0 - 30.0% of mass 198	12241	29.1		Pass
365	1.0 - 100.0% of mass 198	1457	3.46		Pass
441	Present, but less than mass 443	5574	13.2	(90.4) [b]	Pass
442	40.0 - 100.0% of mass 198	32954	78.2		Pass
443	17.0 - 23.0% of mass 442	6168	14.6	(18.7) [c]	Pass

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

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
E3E3700-IC3700	3E84408A.D	06/22/16	18:28	00:15	Initial cal 100
E3E3700-IC3700	3E84409.D	06/22/16	18:55	00:42	Initial cal 80
E3E3700-ICC3700	3E84410.D	06/22/16	19:51	01:38	Initial cal 50
E3E3700-IC3700	3E84411.D	06/22/16	20:18	02:05	Initial cal 25
E3E3700-IC3700	3E84412.D	06/22/16	20:45	02:32	Initial cal 10
E3E3700-IC3700	3E84413.D	06/22/16	21:12	02:59	Initial cal 5
E3E3700-IC3700	3E84414.D	06/22/16	21:40	03:27	Initial cal 2
E3E3700-IC3700	3E84415.D	06/22/16	22:07	03:54	Initial cal 1
E3E3700-ICV3700	3E84416.D	06/22/16	22:34	04:21	Initial cal verification 50
E3E3700-ICV3700	3E84417A.D	06/22/16	23:01	04:48	Initial cal verification 50
E3E3700-ICV3699	3E84417.D	06/22/16	23:01	04:48	Initial cal verification 50
E3E3700-ICV3700	3E84419.D	06/22/16	23:55	05:42	Initial cal verification 50

Instrument Performance Check (DFTPP)

Job Number: JC24133
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample: E3E3739-DFTPP
Lab File ID: 3E85302.D
Instrument ID: GCMS3E
Injection Date: 07/19/16
Injection Time: 12:17

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	19068	42.8		Pass
68	Less than 2.0% of mass 69	152	0.34	(0.67) [a]	Pass
69	Mass 69 relative abundance	22544	50.6		Pass
70	Less than 2.0% of mass 69	133	0.30	(0.59) [a]	Pass
127	40.0 - 60.0% of mass 198	23624	53.0		Pass
197	Less than 1.0% of mass 198	266	0.60		Pass
198	Base peak, 100% relative abundance	44549	100.0		Pass
199	5.0 - 9.0% of mass 198	3025	6.79		Pass
275	10.0 - 30.0% of mass 198	13297	29.8		Pass
365	1.0 - 100.0% of mass 198	2041	4.58		Pass
441	Present, but less than mass 443	174	0.39	(5.08) [b]	Pass
442	40.0 - 100.0% of mass 198	19075	42.8		Pass
443	17.0 - 23.0% of mass 442	3428	7.69	(18.0) [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
E3E3739-CC3699	3E85304.D	07/19/16	12:56	00:39	Continuing cal 25
ZZZZZZ	3E85309.D	07/19/16	14:47	02:30	(unrelated sample)
ZZZZZZ	3E85310.D	07/19/16	15:13	02:56	(unrelated sample)
ZZZZZZ	3E85323.D	07/19/16	15:40	03:23	(unrelated sample)
JC24133-7	3E85324.D	07/19/16	16:07	03:50	OSGP9-GWS
OP95633A-MB1	3E85325.D	07/19/16	16:34	04:17	Method Blank
ZZZZZZ	3E85311.D	07/19/16	17:00	04:43	(unrelated sample)
ZZZZZZ	3E85312.D	07/19/16	17:27	05:10	(unrelated sample)
ZZZZZZ	3E85314.D	07/19/16	18:21	06:04	(unrelated sample)
ZZZZZZ	3E85315.D	07/19/16	18:47	06:30	(unrelated sample)
ZZZZZZ	3E85316.D	07/19/16	19:14	06:57	(unrelated sample)
ZZZZZZ	3E85317.D	07/19/16	19:41	07:24	(unrelated sample)
ZZZZZZ	3E85318.D	07/19/16	20:07	07:50	(unrelated sample)
ZZZZZZ	3E85319.D	07/19/16	20:34	08:17	(unrelated sample)
ZZZZZZ	3E85320.D	07/19/16	21:01	08:44	(unrelated sample)

Instrument Performance Check (DFTPP)

Job Number: JC24133
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: JC24133
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: JC24133
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample: E3M2979-DFTPP
Lab File ID: 3M62990.D
Instrument ID: GCMS3M
Injection Date: 07/15/16
Injection Time: 21:36

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	84509	45.3		Pass
68	Less than 2.0% of mass 69	217	0.12	(0.26) [a]	Pass
69	Mass 69 relative abundance	84206	45.2		Pass
70	Less than 2.0% of mass 69	233	0.12	(0.28) [a]	Pass
127	40.0 - 60.0% of mass 198	94091	50.5		Pass
197	Less than 1.0% of mass 198	277	0.15		Pass
198	Base peak, 100% relative abundance	186475	100.0		Pass
199	5.0 - 9.0% of mass 198	12123	6.50		Pass
275	10.0 - 30.0% of mass 198	45036	24.2		Pass
365	1.0 - 100.0% of mass 198	5707	3.06		Pass
441	Present, but less than mass 443	22968	12.3	(77.4) [b]	Pass
442	40.0 - 100.0% of mass 198	147835	79.3		Pass
443	17.0 - 23.0% of mass 442	29688	15.9	(20.1) [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
E3M2979-CC2975	3M62991.D	07/15/16	21:48	00:12	Continuing cal 0.5
OP95600A-MB1	3M62992.D	07/15/16	22:42	01:06	Method Blank
OP95600A-BS12	3M62993.D	07/15/16	23:15	01:39	Blank Spike
JC24133-1	3M62996.D	07/16/16	00:53	03:17	OSGP7-GWS
JC24133-2	3M62997.D	07/16/16	01:26	03:50	OSGP3-GWD
JC24133-3	3M62998.D	07/16/16	01:59	04:23	OSGP3-GWS
JC24133-4	3M62999.D	07/16/16	02:32	04:56	OSGP9-GWD
JC24133-5	3M63000.D	07/16/16	03:05	05:29	OSGP10-GWD
JC24133-6	3M63001.D	07/16/16	03:37	06:01	BPEB-10
ZZZZZZ	3M63002.D	07/16/16	04:10	06:34	(unrelated sample)
ZZZZZZ	3M63003.D	07/16/16	04:43	07:07	(unrelated sample)
ZZZZZZ	3M63004.D	07/16/16	05:15	07:39	(unrelated sample)

Instrument Performance Check (DFTPP)

Job Number: JC24133
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample: E3M2980-DFTPP
Lab File ID: 3M63011.D
Instrument ID: GCMS3M
Injection Date: 07/18/16
Injection Time: 08:55

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	104773	44.8		Pass
68	Less than 2.0% of mass 69	706	0.30	(0.65) [a]	Pass
69	Mass 69 relative abundance	109317	46.8		Pass
70	Less than 2.0% of mass 69	740	0.32	(0.68) [a]	Pass
127	40.0 - 60.0% of mass 198	118587	50.7		Pass
197	Less than 1.0% of mass 198	0	0.00		Pass
198	Base peak, 100% relative abundance	233701	100.0		Pass
199	5.0 - 9.0% of mass 198	13173	5.64		Pass
275	10.0 - 30.0% of mass 198	54226	23.2		Pass
365	1.0 - 100.0% of mass 198	7691	3.29		Pass
441	Present, but less than mass 443	29403	12.6	(78.7) [b]	Pass
442	40.0 - 100.0% of mass 198	184949	79.1		Pass
443	17.0 - 23.0% of mass 442	37375	16.0	(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
E3M2980-CC2975	3M63012.D	07/18/16	09:16	00:21	Continuing cal 1.0
OP95600A-MB1	3M63013.D	07/18/16	09:53	00:58	Method Blank
OP95600A-BS12	3M63014.D	07/18/16	10:26	01:31	Blank Spike
OP95600A-MS	3M63015.D	07/18/16	10:58	02:03	Matrix Spike
OP95600A-MSD	3M63016.D	07/18/16	11:31	02:36	Matrix Spike Duplicate
JC24076-3	3M63017.D	07/18/16	12:04	03:09	(used for QC only; not part of job JC24133)

Instrument Performance Check (DFTPP)

Job Number: JC24133
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample: E3M2982-DFTPP
Lab File ID: 3M63043.D
Instrument ID: GCMS3M
Injection Date: 07/19/16
Injection Time: 08:53

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	92273	46.8		Pass
68	Less than 2.0% of mass 69	337	0.17	(0.36) [a]	Pass
69	Mass 69 relative abundance	93040	47.2		Pass
70	Less than 2.0% of mass 69	504	0.26	(0.54) [a]	Pass
127	40.0 - 60.0% of mass 198	103957	52.7		Pass
197	Less than 1.0% of mass 198	638	0.32		Pass
198	Base peak, 100% relative abundance	197307	100.0		Pass
199	5.0 - 9.0% of mass 198	13482	6.83		Pass
275	10.0 - 30.0% of mass 198	43115	21.9		Pass
365	1.0 - 100.0% of mass 198	6129	3.11		Pass
441	Present, but less than mass 443	24400	12.4	(77.7) [b]	Pass
442	40.0 - 100.0% of mass 198	156357	79.2		Pass
443	17.0 - 23.0% of mass 442	31420	15.9	(20.1) [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
E3M2982-CC2975	3M63044.D	07/19/16	09:09	00:16	Continuing cal 0.5
OP95633A-MB1	3M63045.D	07/19/16	09:57	01:04	Method Blank
OP95633A-BS12	3M63046.D	07/19/16	10:30	01:37	Blank Spike
OP95633A-MS	3M63047.D	07/19/16	11:03	02:10	Matrix Spike
OP95633A-MSD	3M63048.D	07/19/16	11:36	02:43	Matrix Spike Duplicate
JC24133-7	3M63049.D	07/19/16	12:09	03:16	OSGP9-GWS
JC24177-1	3M63050.D	07/19/16	12:42	03:49	(used for QC only; not part of job JC24133)
ZZZZZZ	3M63051.D	07/19/16	13:14	04:21	(unrelated sample)
ZZZZZZ	3M63052.D	07/19/16	13:47	04:54	(unrelated sample)
ZZZZZZ	3M63054.D	07/19/16	14:53	06:00	(unrelated sample)

Instrument Performance Check (DFTPP)

Job Number: JC24133
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample: E5P1496-DFTPP
Lab File ID: 5P29325.D
Instrument ID: GCMS5P
Injection Date: 07/01/16
Injection Time: 11:45

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	50347	36.1		Pass
68	Less than 2.0% of mass 69	647	0.46	(1.15) [a]	Pass
69	Mass 69 relative abundance	56271	40.4		Pass
70	Less than 2.0% of mass 69	208	0.15	(0.37) [a]	Pass
127	40.0 - 60.0% of mass 198	76180	54.7		Pass
197	Less than 1.0% of mass 198	0	0.00		Pass
198	Base peak, 100% relative abundance	139298	100.0		Pass
199	5.0 - 9.0% of mass 198	8642	6.20		Pass
275	10.0 - 30.0% of mass 198	34972	25.1		Pass
365	1.0 - 100.0% of mass 198	4350	3.12		Pass
441	Present, but less than mass 443	20591	14.8	(84.3) [b]	Pass
442	40.0 - 100.0% of mass 198	130277	93.5		Pass
443	17.0 - 23.0% of mass 442	24412	17.5	(18.7) [c]	Pass

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

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
E5P1496-IC1496	5P29326.D	07/01/16	12:12	00:27	Initial cal 100
E5P1496-IC1496	5P29327.D	07/01/16	12:38	00:53	Initial cal 2
E5P1496-IC1496	5P29328.D	07/01/16	13:04	01:19	Initial cal 80
E5P1496-IC1496	5P29329.D	07/01/16	13:30	01:45	Initial cal 1
E5P1496-ICC1496	5P29330.D	07/01/16	13:55	02:10	Initial cal 50
E5P1496-IC1496	5P29331A.D	07/01/16	14:46	03:01	Initial cal 5
E5P1496-IC1496	5P29332.D	07/01/16	15:12	03:27	Initial cal 25
E5P1496-IC1496	5P29333.D	07/01/16	15:38	03:53	Initial cal 10

Instrument Performance Check (DFTPP)

Job Number: JC24133
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample: E5P1497-DFTPP
Lab File ID: 5P29335.D
Instrument ID: GCMS5P
Injection Date: 07/01/16
Injection Time: 16:47

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	56036	35.8		Pass
68	Less than 2.0% of mass 69	0	0.00	(0.00) [a]	Pass
69	Mass 69 relative abundance	62492	40.0		Pass
70	Less than 2.0% of mass 69	275	0.18	(0.44) [a]	Pass
127	40.0 - 60.0% of mass 198	84560	54.1		Pass
197	Less than 1.0% of mass 198	527	0.34		Pass
198	Base peak, 100% relative abundance	156360	100.0		Pass
199	5.0 - 9.0% of mass 198	10436	6.67		Pass
275	10.0 - 30.0% of mass 198	38696	24.7		Pass
365	1.0 - 100.0% of mass 198	4365	2.79		Pass
441	Present, but less than mass 443	21978	14.1	(75.2) [b]	Pass
442	40.0 - 100.0% of mass 198	151904	97.2		Pass
443	17.0 - 23.0% of mass 442	29237	18.7	(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
E5P1497-IC1497	5P29336.D	07/01/16	17:03	00:16	Initial cal 100
E5P1497-IC1497	5P29337.D	07/01/16	17:29	00:42	Initial cal 80
E5P1497-ICC1497	5P29338.D	07/01/16	17:54	01:07	Initial cal 50
E5P1497-IC1497	5P29339.D	07/01/16	18:20	01:33	Initial cal 25
E5P1497-IC1497	5P29340.D	07/01/16	18:46	01:59	Initial cal 10
E5P1497-IC1497	5P29341.D	07/01/16	19:11	02:24	Initial cal 5
E5P1497-IC1497	5P29342.D	07/01/16	19:36	02:49	Initial cal 2
E5P1497-IC1497	5P29343.D	07/01/16	20:01	03:14	Initial cal 1
E5P1497-ICV1496	5P29344.D	07/01/16	20:27	03:40	Initial cal verification 50
E5P1497-ICV1496	5P29345.D	07/01/16	20:52	04:05	Initial cal verification 50
E5P1497-ICV1496	5P29346.D	07/01/16	21:18	04:31	Initial cal verification 50
E5P1497-ICV1497	5P29347A.D	07/01/16	21:43	04:56	Initial cal verification 50
E5P1497-ICV1496	5P29347.D	07/01/16	21:43	04:56	Initial cal verification 50
E5P1497-ICV1497	5P29348A.D	07/01/16	22:09	05:22	Initial cal verification 50
E5P1497-ICV1496	5P29348.D	07/01/16	22:09	05:22	Initial cal verification 50
E5P1497-ICV1497	5P29349A.D	07/01/16	22:34	05:47	Initial cal verification 50
E5P1497-ICV1496	5P29349.D	07/01/16	22:34	05:47	Initial cal verification 50
E5P1497-ICV1497	5P29350.D	07/01/16	23:00	06:13	Initial cal verification 50

Instrument Performance Check (DFTPP)

Job Number: JC24133
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample: E5P1500-DFTPP
Lab File ID: 5P29398.D
Instrument ID: GCMS5P
Injection Date: 07/05/16
Injection Time: 09:09

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	67454	37.4		Pass
68	Less than 2.0% of mass 69	0	0.00	(0.00) [a]	Pass
69	Mass 69 relative abundance	77340	42.8		Pass
70	Less than 2.0% of mass 69	499	0.28	(0.65) [a]	Pass
127	40.0 - 60.0% of mass 198	100623	55.7		Pass
197	Less than 1.0% of mass 198	0	0.00		Pass
198	Base peak, 100% relative abundance	180501	100.0		Pass
199	5.0 - 9.0% of mass 198	11817	6.55		Pass
275	10.0 - 30.0% of mass 198	42778	23.7		Pass
365	1.0 - 100.0% of mass 198	5269	2.92		Pass
441	Present, but less than mass 443	25449	14.1	(80.7) [b]	Pass
442	40.0 - 100.0% of mass 198	165608	91.7		Pass
443	17.0 - 23.0% of mass 442	31552	17.5	(19.1) [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
E5P1500-ICV1496	5P29399.D	07/05/16	09:26	00:17	Initial cal verification 50
E5P1500-ICV1497	5P29400.D	07/05/16	09:51	00:42	Initial cal verification 50

Instrument Performance Check (DFTPP)

Job Number: JC24133
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample: E5P1518-DFTPP
Lab File ID: 5P29753.D
Instrument ID: GCMS5P
Injection Date: 07/18/16
Injection Time: 09:13

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	17242	30.7		Pass
68	Less than 2.0% of mass 69	108	0.19	(0.48) [a]	Pass
69	Mass 69 relative abundance	22514	40.1		Pass
70	Less than 2.0% of mass 69	261	0.46	(1.16) [a]	Pass
127	40.0 - 60.0% of mass 198	32812	58.4		Pass
197	Less than 1.0% of mass 198	0	0.00		Pass
198	Base peak, 100% relative abundance	56192	100.0		Pass
199	5.0 - 9.0% of mass 198	3493	6.22		Pass
275	10.0 - 30.0% of mass 198	13575	24.2		Pass
365	1.0 - 100.0% of mass 198	2048	3.64		Pass
441	Present, but less than mass 443	8445	15.0	(82.0) [b]	Pass
442	40.0 - 100.0% of mass 198	52664	93.7		Pass
443	17.0 - 23.0% of mass 442	10301	18.3	(19.6) [c]	Pass

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

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
E5P1518-CC1496	5P29754.D	07/18/16	09:34	00:21	Continuing cal 50
E5P1518-CC1497	5P29755.D	07/18/16	10:01	00:48	Continuing cal 50
OP95610-MB1	5P29757.D	07/18/16	10:51	01:38	Method Blank
OP95610-BS1	5P29758.D	07/18/16	11:16	02:03	Blank Spike
OP95600A-MB1	5P29759.D	07/18/16	11:42	02:29	Method Blank
JC24133-2	5P29760.D	07/18/16	12:07	02:54	OSGP3-GWD
JC24133-3	5P29761.D	07/18/16	12:32	03:19	OSGP3-GWS
JC24133-4	5P29762.D	07/18/16	12:58	03:45	OSGP9-GWD
JC24133-5	5P29763.D	07/18/16	13:23	04:10	OSGP10-GWD
OP95581-MB1	5P29777.D	07/18/16	13:48	04:35	Method Blank
ZZZZZZ	5P29781.D	07/18/16	15:04	05:51	(unrelated sample)
JC24133-1	5P29770.D	07/18/16	15:30	06:17	OSGP7-GWS
ZZZZZZ	5P29780.D	07/18/16	15:55	06:42	(unrelated sample)
OP95610-MS	5P29764.D	07/18/16	16:20	07:07	Matrix Spike
OP95610-MSD	5P29765.D	07/18/16	16:45	07:32	Matrix Spike Duplicate
JC24106-1	5P29766.D	07/18/16	17:10	07:57	(used for QC only; not part of job JC24133)
ZZZZZZ	5P29768.D	07/18/16	18:01	08:48	(unrelated sample)
ZZZZZZ	5P29772.D	07/18/16	19:17	10:04	(unrelated sample)
ZZZZZZ	5P29773.D	07/18/16	19:42	10:29	(unrelated sample)

Semivolatile Internal Standard Area Summary

Job Number: JC24133
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Check Std:	E3E3739-CC3699	**Injection Date:**	07/19/16
Lab File ID:	3E85304.D	**Injection Time:**	12:56
Instrument ID:	GCMS3E	**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	100653	5.04	385513	6.19	242243	8.35	426160	10.58	440672	14.83	359745	17.01
Upper Limit [a]	201306	5.54	771026	6.69	484486	8.85	852320	11.08	881344	15.33	719490	17.51
Lower Limit [b]	50327	4.54	192757	5.69	121122	7.85	213080	10.08	220336	14.33	179873	16.51

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
ZZZZZZ	105708	5.04	392867	6.19	235977	8.35	399583	10.58	345855	14.82	251644	17.01
ZZZZZZ	106217	5.04	395432	6.19	236957	8.35	385684	10.58	272714	14.83	188773	17.02
ZZZZZZ	100045	5.04	380086	6.19	238424	8.35	416963	10.58	376316	14.83	289927	17.02
JC24133-7	110174	5.04	415206	6.19	260870	8.35	459412	10.58	439620	14.83	359067	17.02
OP95633A-MB1	104209	5.04	390680	6.19	246534	8.35	441364	10.58	437922	14.83	371146	17.01
ZZZZZZ	99907	5.04	350724	6.20	191706	8.35	309586	10.58	188768*	14.83	136368*	17.03
ZZZZZZ	93698	5.04	359528	6.20	206923	8.35	339786	10.59	154070*	14.85	103560*	17.05
ZZZZZZ	111587	5.04	426418	6.20	253554	8.36	412605	10.59	292730	14.84	202489	17.03
ZZZZZZ	106971	5.04	409340	6.20	256537	8.36	432106	10.59	327204	14.84	199613	17.03
ZZZZZZ	115236	5.04	409393	6.20	226271	8.36	356143	10.59	170111*	14.86	102300*	17.07
ZZZZZZ	101873	5.04	388607	6.20	232060	8.36	375195	10.60	249574	14.85	148813*	17.04
ZZZZZZ	105048	5.04	390328	6.20	220790	8.36	337433	10.60	210216*	14.86	134041*	17.05
ZZZZZZ	99896	5.04	378652	6.20	212717	8.36	355623	10.60	250616	14.85	163340*	17.04
ZZZZZZ	105484	5.04	333604	6.21	163079	8.36	267611	10.60	177436*	14.86	128046*	17.05

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: JC24133
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Check Std:	E3M2979-CC2975	**Injection Date:**	07/15/16
Lab File ID:	3M62991.D	**Injection Time:**	21:48
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	268519	10.20	429668	13.18	700951	17.39	555282	22.00
Upper Limit [a]	537038	10.70	859336	13.68	1401902	17.89	1110564	22.50
Lower Limit [b]	134260	9.70	214834	12.68	350476	16.89	277641	21.50

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT
OP95600A-MB1	210200	10.20	314544	13.18	508478	17.40	407484	22.00
OP95600A-BS12	214293	10.20	320813	13.18	485048	17.39	380325	22.00
JC24133-1	210812	10.20	310927	13.18	496873	17.39	392211	22.00
JC24133-2	210872	10.20	309407	13.18	489570	17.39	391376	22.00
JC24133-3	210764	10.20	317883	13.18	502212	17.39	393433	22.00
JC24133-4	211717	10.20	313554	13.18	499700	17.39	379834	22.00
JC24133-5	222830	10.20	328320	13.18	523814	17.39	406775	22.00
JC24133-6	220770	10.20	326842	13.18	510823	17.39	397089	22.00
ZZZZZZ	208224	10.20	306090	13.18	478131	17.39	364394	22.00
ZZZZZZ	244417	10.20	446391	13.18	553729	17.40	442311	22.00
ZZZZZZ	242454	10.20	358090	13.18	565121	17.39	458159	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: JC24133
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Check Std:	E3M2980-CC2975	**Injection Date:**	07/18/16
Lab File ID:	3M63012.D	**Injection Time:**	09:16
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	248670	10.18	377928	13.16	580379	17.37	471361	21.98
Upper Limit [a]	497340	10.68	755856	13.66	1160758	17.87	942722	22.48
Lower Limit [b]	124335	9.68	188964	12.66	290190	16.87	235681	21.48

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT
OP95600A-MB1	288872	10.20	434915	13.16	666997	17.37	546556	21.98
OP95600A-BS12	284504	10.20	427886	13.16	658804	17.37	526942	21.98
OP95600A-MS	307017	10.20	462116	13.16	694305	17.37	534623	21.98
OP95600A-MSD	322134	10.20	476435	13.16	732022	17.37	588659	21.98
JC24076-3	255537	10.20	397356	13.16	601212	17.37	499392	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: JC24133
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Check Std:	E3M2982-CC2975	**Injection Date:**	07/19/16
Lab File ID:	3M63044.D	**Injection Time:**	09:09
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	390755	10.24	525290	13.22	821151	17.43	661380	22.03
Upper Limit [a]	781510	10.74	1050580	13.72	1642302	17.93	1322760	22.53
Lower Limit [b]	195378	9.74	262645	12.72	410576	16.93	330690	21.53

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT
OP95633A-MB1	363245	10.24	467540	13.22	740701	17.43	596917	22.03
OP95633A-BS12	360628	10.24	478766	13.22	723675	17.43	578707	22.03
OP95633A-MS	343581	10.24	458223	13.22	713520	17.43	555094	22.03
OP95633A-MSD	352657	10.24	462301	13.22	711469	17.43	553297	22.03
JC24133-7	352441	10.24	452579	13.22	738171	17.43	553257	22.03
JC24177-1	322700	10.24	420675	13.22	662576	17.43	517538	22.03
ZZZZZZ	322283	10.24	471360	13.22	640296	17.43	514092	22.03
ZZZZZZ	348297	10.24	451434	13.22	686964	17.43	536112	22.03
ZZZZZZ	283884	10.24	368878	13.22	601146	17.43	465848	22.03

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: JC24133
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Check Std:	E5P1518-CC1496	**Injection Date:**	07/18/16
Lab File ID:	5P29754.D	**Injection Time:**	09:34
Instrument ID:	GCMS5P	**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	256789	4.88	1063155	6.09	634357	7.80	1045072	9.35	742604	12.93	699665	14.98
Upper Limit [a]	513578	5.38	2126310	6.59	1268714	8.30	2090144	9.85	1485208	13.43	1399330	15.48
Lower Limit [b]	128395	4.38	531578	5.59	317179	7.30	522536	8.85	371302	12.43	349833	14.48

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
OP95610-MB1	241228	4.88	937165	6.08	456187	7.80	723015	9.34	555934	12.92	493402	14.97
OP95610-BS1	234917	4.88	905645	6.08	447801	7.80	703470	9.34	540031	12.92	494153	14.97
OP95600A-MB1	254323	4.88	977976	6.08	501458	7.80	810869	9.34	652445	12.92	577300	14.97
JC24133-2	242494	4.88	958857	6.08	482372	7.80	783229	9.34	625162	12.91	557998	14.97
JC24133-3	251396	4.88	988658	6.08	495800	7.80	801029	9.34	651632	12.92	577029	14.97
JC24133-4	258531	4.88	1007183	6.08	505632	7.79	810429	9.34	651171	12.91	586542	14.97
JC24133-5	259710	4.88	1021371	6.08	501902	7.79	800854	9.34	650054	12.91	619967	14.97
OP95581-MB1	258293	4.88	1034588	6.08	512071	7.79	809207	9.34	624409	12.91	545723	14.97
ZZZZZZ	185135	4.88	705078	6.09	391993	7.81	611410	9.36	518356	12.94	482658	15.00
JC24133-1	232265	4.88	892333	6.09	457138	7.80	698540	9.35	548624	12.93	537445	15.00
ZZZZZZ	230260	4.88	895467	6.09	439898	7.80	685060	9.35	542514	12.93	510865	15.00
OP95610-MS	221936	4.88	818968	6.09	394641	7.81	589691	9.36	510276	12.96	515507	15.03
OP95610-MSD	214085	4.88	762166	6.09	388558	7.81	576029	9.36	503239	12.96	495562	15.03
JC24106-1	219444	4.88	779377	6.09	393289	7.81	583896	9.36	526792	12.97	533069	15.05
ZZZZZZ	226999	4.89	830535	6.09	419777	7.81	643255	9.36	487670	12.95	474019	15.02
ZZZZZZ	214356	4.89	778663	6.09	386185	7.81	581993	9.36	479222	12.95	465503	15.02
ZZZZZZ	219849	4.89	781078	6.09	400621	7.81	583794	9.36	463954	12.95	450120	15.02

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

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

Semivolatile Surrogate Recovery Summary

Job Number: JC24133
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
JC24133-1	5P29770.D	88	107	92
JC24133-1	3M62996.D	102	101	99
JC24133-2	5P29760.D	83	102	94
JC24133-2	3M62997.D	100	97	94
JC24133-3	5P29761.D	65	79	70
JC24133-3	3M62998.D	84	82	75
JC24133-4	5P29762.D	82	101	74
JC24133-4	3M62999.D	99	97	78
JC24133-5	5P29763.D	83	103	72
JC24133-5	3M63000.D	97	94	73
JC24133-6	3M63001.D	104	100	113
JC24133-7	3E85324.D	83	77	68
JC24133-7	3M63049.D	63	79	69
OP95600A-BS12	3M62993.D	97	89	111
OP95600A-BS12	3M63014.D	90	77	106
OP95600A-MB1	3M62992.D	108	95	111
OP95600A-MB1	5P29759.D	91	104	107
OP95600A-MB1	3M63013.D	97	80	109
OP95600A-MS	3M63015.D	89	82	100
OP95600A-MSD	3M63016.D	88	83	98
OP95633A-BS12	3M63046.D	60	66	90
OP95633A-MB1	3M63045.D	64	73	83
OP95633A-MB1	3E85325.D	85	74	85
OP95633A-MS	3M63047.D	65	77	88
OP95633A-MSD	3M63048.D	62	78	89

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

Initial Calibration Summary

Job Number: JC24133
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR
Sample: E3E3699-ICC3699
Lab FileID: 3E84394.D

Response Factor Report MS3E

Method : C:\msdchem\1\METHODS\M3E3699.M (RTE Integrator)
Title : Semi Volatile GC/MS,zb-5msplus 30m x .25mm x .25MThu Jun 23 10:08:02 2016
Last Update : Thu Jun 23 10:08:02 2016
Response via : Initial Calibration

Calibration Files
2 =3E84387.D 5 =3E84393.D 25 =3E84391.D 80 =3E84390.D
100 =3E84389.D 50 =3E84394.D 1 =3E84388.D 10 =3E84392.D

Compound	2	5	25	80	100	50	1	10	Avg	%RSD
1) I 1,4-Dichlorobenzene-d	----------ISTD----------									
2) 1,4-Dioxane	0.606	0.546	0.513	0.530	0.498	0.507	0.524	0.513	0.530	6.46
3) Pyridine	1.362	1.362	1.330	1.400	1.290	1.275	1.377	1.357	1.344	3.21
4) N-Nitrosodim	0.850	0.783	0.749	0.789	0.733	0.728	0.782	0.758	0.771	5.08
5) 2-Fluorophen	1.239	1.204	1.212	1.289	1.230	1.203	1.298	1.241	1.240	2.94
6) Indene	2.559	2.471	2.364	2.556	2.412	2.388	2.448	2.455	2.457	2.93
7) Cumene	3.220	3.141	3.073	3.287	3.062	3.030	3.344	3.078	3.154	3.69
8) Phenol-d5	1.592	1.480	1.459	1.564	1.489	1.431	1.549	1.490	1.507	3.70
9) Phenol	1.875	1.738	1.708	1.853	1.776	1.703	1.738	1.795	1.773	3.62
10) Aniline	1.966	1.985	1.726	1.775	1.682	1.606	2.350	1.822	1.864	12.65
11) bis(2-Chloro	1.282	1.228	1.167	1.247	1.173	1.178	1.362	1.192	1.229	5.46
12) 2-Chlorophen	1.451	1.490	1.405	1.530	1.489	1.451	1.452	1.443	1.464	2.59
13) Decane	1.301	1.250	1.241	1.259	1.158	1.156	1.287	1.202	1.232	4.45
14) 1,3-Dichloro	1.753	1.636	1.562	1.675	1.627	1.544	1.700	1.627	1.641	4.19
15) 1,4-Dichloro	1.722	1.688	1.623	1.720	1.647	1.627	1.899	1.638	1.695	5.38
16) Benzyl alcoh	0.863	0.828	0.836	0.887	0.854	0.829	0.952	0.852	0.863	4.76
17) 1,2-Dichloro	1.612	1.547	1.506	1.575	1.538	1.506	1.651	1.531	1.558	3.29
18) Acetophenone	1.867	1.805	1.789	1.932	1.850	1.781	1.842	1.767	1.829	2.98
19) 2-Methylphen	1.166	1.224	1.187	1.253	1.201	1.157	1.284	1.194	1.208	3.59
20) 2,2'-oxybis(	0.501	0.479	0.482	0.507	0.486	0.466	0.525	0.482	0.491	3.80
21) 3&4-Methylph	1.321	1.271	1.282	1.386	1.326	1.260	1.323	1.290	1.307	3.08
22) n-Nitroso-di	0.846	0.817	0.806	0.864	0.801	0.779	0.766	0.807	0.811	3.97
23) Hexachloroet	0.548	0.518	0.503	0.502	0.482	0.492	0.537	0.493	0.509	4.52
24) I Naphthalene-d8	----------ISTD----------									
25) Nitrobenzene	0.309	0.297	0.305	0.320	0.313	0.295	0.299	0.303	0.305	2.80
26) Nitrobenzene	0.329	0.312	0.326	0.338	0.328	0.311	0.316	0.321	0.323	2.90
27) Quinoline		0.719	0.703	0.698	0.697	0.687		0.712	0.703	1.62
28) Isophorone	0.554	0.558	0.554	0.582	0.573	0.545	0.586	0.566	0.565	2.58
29) 2-Nitropheno	0.193	0.190	0.198	0.215	0.212	0.203	0.190	0.198	0.200	4.76
30) 2,4-Dimethyl	0.300	0.286	0.278	0.318	0.321	0.292	0.286	0.276	0.295	5.78
31) Benzoic acid			0.210	0.248	0.246	0.229		0.190	0.224	11.07
32) bis(2-Chloro	0.348	0.361	0.362	0.375	0.373	0.358	0.383	0.362	0.365	3.05
33) 2,4-Dichloro	0.306	0.290	0.290	0.300	0.308	0.299	0.285	0.297	0.297	2.71
34) 2,6-Dichloro	0.305	0.293	0.279	0.290	0.294	0.290	0.311	0.282	0.293	3.70
35) 1,3,5-Trichl	0.322	0.361	0.335	0.353	0.369	0.346	0.342	0.344	0.347	4.25
36) 1,2,4-Trichl	0.325	0.321	0.316	0.321	0.328	0.325	0.322	0.320	0.322	1.13
37) 1,2,3-Trichl	0.323	0.322	0.311	0.297	0.307	0.306	0.332	0.316	0.314	3.62
38) Naphthalene	1.109	1.088	1.061	1.101	1.081	1.062	1.151	1.081	1.092	2.68
39) 4-Chloroanil	0.412	0.439	0.420	0.428	0.427	0.418	0.434	0.425	0.425	2.04
40) 2,3-Dichloro	0.371	0.362	0.345	0.346	0.347	0.348	0.352	0.362	0.354	2.69
41) Caprolactam	0.146	0.138	0.135	0.141	0.137	0.128	0.157	0.134	0.139	6.42
42) Hexachlorobu	0.162	0.168	0.154	0.154	0.156	0.157	0.166	0.161	0.160	3.33
43) 4-Chloro-3-m	0.276	0.274	0.263	0.269	0.270	0.259	0.262	0.266	0.267	2.21
44) 2-Methylnaph	0.633	0.612	0.609	0.630	0.630	0.605	0.647	0.600	0.621	2.67
45) 1-Methylnaph	0.648	0.640	0.628	0.647	0.649	0.627	0.675	0.636	0.644	2.39

Initial Calibration Summary

Job Number: JC24133 **Sample:** E3E3699-ICC3699
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 3E84394.D
Project: BMSMC, Building 5 Area, PR

```
46) Dimethylnaph 0.644 0.639 0.613 0.611 0.587 0.607 0.675 0.648 0.628   4.51

47) I   Acenaphthene-d10      ----------------ISTD---------------------
48) Hexachlorocy 0.252 0.293 0.327 0.368 0.387 0.362       0.303 0.328  14.64
49) 2,4,6-Trichl 0.359 0.356 0.360 0.387 0.389 0.380 0.368 0.359 0.370   3.62
50) 2,4,5-Trichl 0.370 0.381 0.370 0.383 0.391 0.393 0.385 0.372 0.381   2.41
51) 2-Fluorobiph 1.396 1.305 1.261 1.304 1.313 1.308 1.397 1.299 1.323   3.64
52) 2-Chloronaph 1.157 1.192 1.103 1.115 1.127 1.143 1.103 1.133 1.134   2.64
53) Biphenyl     1.579 1.544 1.510 1.596 1.602 1.548 1.624 1.548 1.569   2.41
54) 2-Nitroanili 0.253 0.248 0.273 0.293 0.293 0.268 0.244 0.260 0.267   7.08
55) Dimethylphth 1.275 1.267 1.213 1.249 1.234 1.235 1.256 1.239 1.246   1.61
56) Acenaphthyle 1.983 1.881 1.882 1.968 1.931 1.935 1.960 1.918 1.932   1.95
57) 2,6-Dinitrot 0.239 0.267 0.279 0.294 0.290 0.287 0.257 0.278 0.274   6.83
58) 3-Nitroanili 0.291 0.320 0.327 0.348 0.346 0.332 0.287 0.318 0.321   7.08
59) Acenaphthene 1.260 1.237 1.178 1.246 1.252 1.217 1.307 1.190 1.236   3.33
60) 2,4-Dinitrop 0.049 0.087 0.131 0.163 0.163 0.156       0.102 0.122  36.13
            ---- Quadratic regression ----  Coefficient =  0.9991
              Response Ratio = -0.02063 + 0.15652 *A + 0.00229 *A^2

61) 4-Nitropheno 0.102 0.110 0.117 0.128 0.129 0.122 0.092 0.111 0.114  11.26
62) Dibenzofuran 1.647 1.659 1.570 1.609 1.598 1.585 1.698 1.614 1.623   2.62
63) 2,4-Dinitrot 0.304 0.335 0.364 0.395       0.390 0.266 0.351 0.344  13.53
64) 2,3,4,6-Tetr 0.256 0.286 0.295 0.307 0.305 0.314 0.253 0.286 0.288   7.90
65) Diethylphtha 1.256 1.205 1.175 1.215 1.203 1.189 1.234 1.184 1.208   2.23
66) Fluorene     1.377 1.343 1.292 1.358 1.355 1.332 1.387 1.307 1.344   2.43
67) 4-Chlorophen 0.614 0.638 0.610 0.621 0.629 0.626 0.706 0.635 0.635   4.79
68) 4-Nitroanili 0.319 0.311 0.337 0.338 0.326 0.351 0.318 0.339 0.330   4.12

69) I   Phenanthrene-d10      ----------------ISTD---------------------
70) 4,6-Dinitro-       0.085 0.117 0.143 0.142 0.137       0.103 0.121  19.52
            ---- Quadratic regression ----  Coefficient =  0.9993
              Response Ratio = -0.00992 + 0.14090 *A + 0.00264 *A^2

71) n-Nitrosodip 0.553 0.513 0.511 0.544 0.540 0.523 0.545 0.511 0.530   3.27
72) 1,2-Diphenyl 0.644 0.637 0.643 0.739 0.719 0.664 0.630 0.645 0.665   6.16
73) 2,4,6-Tribro 0.127 0.124 0.128 0.138 0.137 0.138 0.119 0.125 0.129   5.59
74) 4-Bromopheny 0.217 0.209 0.205 0.218 0.222 0.217 0.208 0.208 0.213   2.98
75) Hexachlorobe 0.261 0.263 0.251 0.258 0.259 0.269 0.263 0.257 0.260   1.98
76) Pentachlorop 0.054 0.092 0.135 0.166 0.168 0.162       0.114 0.127  34.01
            ---- Quadratic regression ----  Coefficient =  0.9994
              Response Ratio = -0.01833 + 0.15784 *A + 0.00296 *A^2

77) Phenanthrene 1.144 1.122 1.083 1.123 1.100 1.088 1.170 1.093 1.115   2.73
78) Anthracene   1.162 1.121 1.072 1.123 1.100 1.089 1.179 1.097 1.118   3.28
79) Carbazole    1.053 1.052 1.015 1.079 1.059 1.025 1.037 1.030 1.044   2.00
80) Di-n-butylph 1.244 1.186 1.232 1.385 1.366 1.281 1.241 1.222 1.270   5.57
81) Fluoranthene 1.113 1.136 1.114 1.260 1.256 1.179 1.149 1.109 1.164   5.34
82) Octadecane   0.398 0.390 0.424 0.490 0.475 0.428 0.401 0.406 0.426   8.69

83) I   Chrysene-d12          ----------------ISTD---------------------
84) Pyrene       1.236 1.183 1.154 1.239 1.209 1.158 1.246 1.187 1.201   3.05
85) Terphenyl-d1 0.846 0.832 0.811 0.852 0.847 0.827 0.871 0.851 0.842   2.18
86) Butylbenzylp 0.558 0.517 0.520 0.582 0.576 0.526 0.553 0.522 0.544   4.86
87) Butyl steara                                                0.000# -1.00
88) Benzo[a]anth 1.244 1.138 1.086 1.161 1.150 1.109 1.318 1.135 1.168   6.54
89) 3,3'-Dichlor 0.459 0.460 0.473 0.509 0.506 0.470 0.450 0.472 0.475   4.56
90) Chrysene     1.118 1.093 1.023 1.031 0.996 0.994 1.161 1.066 1.060   5.68
91) bis(2-Ethylh 0.797 0.728 0.733 0.769 0.734 0.708 0.817 0.737 0.753   4.99

92) I   Perylene-d12          ----------------ISTD---------------------
```

Initial Calibration Summary

Job Number: JC24133 **Sample:** E3E3699-ICC3699
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 3E84394.D
Project: BMSMC, Building 5 Area, PR

93)	Di-n-octylph	1.430	1.315	1.381	1.692	1.748	1.425	1.440	1.308	1.467	11.21
94)	Benzo[b]fluo	1.253	1.222	1.301	1.489	1.520	1.387	1.322	1.260	1.344	8.27
95)	Benzo[k]fluo	1.244	1.196	1.127	1.173	1.131	1.108	1.280	1.133	1.174	5.25
96)	Benzo[a]pyre	1.122	1.082	1.049	1.126	1.120	1.052	1.193	1.062	1.101	4.47
97)	Indeno[1,2,3	1.149	1.062	1.078	1.227	1.268	1.146	1.242	1.064	1.155	7.22
98)	Dibenz(a,h)a	1.045	1.025	0.991	1.113	1.154	1.042	1.103	1.004	1.060	5.43
99)	Dibenz[a,h]a	1.158	1.172	1.094	1.163	1.168	1.115	1.236	1.113	1.152	3.90
100)	7,12-Dimethy	0.496	0.505	0.587	0.698	0.719	0.634		0.545	0.598	14.90
101)	Benzo[g,h,i]	1.104	1.107	1.041	1.132	1.120	1.068	1.158	1.058	1.098	3.63

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

M3E3699.M Thu Jun 23 10:48:41 2016 MS3E

Initial Calibration Verification

Job Number: JC24133 **Sample:** E3E3699-ICV3699
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 3E84395.D
Project: BMSMC, Building 5 Area, PR

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\DATA\E3E3699\3E84395.D          Vial: 10
Acq On    : 22 Jun 2016   2:17 pm                    Operator: ashleyn
Sample    : icv3699-50                               Inst    : MS3E
Misc      : op94901,e3e3699                         Multiplr: 1.00
MS Integration Params: lscint.p

Method       : C:\msdchem\1\METHODS\M3E3699.M (RTE Integrator)
Title        : Semi Volatile  GC/MS,zb-5msplus 30m x .25mm x .25MWed Jun 22 15:07:09 2016
Last Update  : Wed Jun 22 15:07:09 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	89	0.00	5.11
9	t	Phenol	1.773	1.498	15.5	78	0.00	4.83
12	t	2-Chlorophenol	1.464	1.380	5.7	84	0.00	4.95
19	t	2-Methylphenol	1.208	1.145	5.2	88	0.00	5.31
21	t	3&4-Methylphenol	1.307	1.231	5.8	87	0.00	5.44
24	I	Naphthalene-d8	1.000	1.000	0.0	87	0.00	6.28
29	t	2-Nitrophenol	0.200	0.200	0.0	86	0.00	5.90
30	t	2,4-Dimethylphenol	0.295	0.312	-5.8	93	0.00	5.92
31	t	Benzoic acid	0.224	0.203	9.4	78	-0.01	6.03
33	t	2,4-Dichlorophenol	0.297	0.297	0.0	87	0.00	6.13
34	t	2,6-Dichlorophenol	0.293	0.293	0.0	88	0.00	6.36
43	t	4-Chloro-3-methylphenol	0.267	0.253	5.2	85	-0.01	6.88
47	I	Acenaphthene-d10	1.000	1.000	0.0	90	0.00	8.45
49	t	2,4,6-Trichlorophenol	0.370	0.365	1.4	87	0.00	7.43
50	t	2,4,5-Trichlorophenol	0.381	0.363	4.7	83	-0.01	7.47
		----------	True	Calc.	% Drift		----------	
60	t	2,4-Dinitrophenol	50.000	44.799	10.4	72	-0.01	8.53
		----------	AvgRF	CCRF	% Dev		----------	
61	t	4-Nitrophenol	0.114	0.108	5.3	80	-0.01	8.64
64		2,3,4,6-Tetrachlorophenol	0.288	0.299	-3.8	86	0.00	8.93
69	I	Phenanthrene-d10	1.000	1.000	0.0	88	0.00	10.67
		----------	True	Calc.	% Drift		----------	
70	t	4,6-Dinitro-2-methylpheno	50.000	46.097	7.8	80	-0.01	9.33
		----------	True	Calc.	% Drift		----------	
76	t	Pentachlorophenol	50.000	47.564	4.9	76	0.00	10.40

(#) = Out of Range SPCC's out = 0 CCC's out = 0
3E84394.D M3E3699.M Wed Jun 22 15:15:31 2016 MS3E

Initial Calibration Verification

Job Number: JC24133 **Sample:** E3E3699-ICV3699
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 3E84396.D
Project: BMSMC, Building 5 Area, PR

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\E3E3699\3E84396.D Vial: 11
Acq On : 22 Jun 2016 2:44 pm Operator: ashleyn
Sample : icv3699-50 Inst : MS3E
Misc : op94901,e3e3699 Multiplr: 1.00
MS Integration Params: lscint.p

Method : C:\msdchem\1\METHODS\M3E3699.M (RTE Integrator)
Title : Semi Volatile GC/MS,zb-5msplus 30m x .25mm x .25MWed Jun 22 15:07:09 2016
Last Update : Wed Jun 22 15:07:09 2016
Response via : Multiple Level Calibration

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

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	99	0.00	5.11
3	t	Pyridine	1.344	1.327	1.3	103	0.09	3.09
10		Aniline	1.864	2.127	-14.1	131	0.00	4.85
16	t	Benzyl alcohol	0.863	0.954	-10.5	114	0.00	5.22
24	I	Naphthalene-d8	1.000	1.000	0.0	118	0.00	6.28
39	t	4-Chloroaniline	0.425	0.401	5.6	113	0.00	6.35
44	t	2-Methylnaphthalene	0.621	0.568	8.5	110	0.00	7.08
47	I	Acenaphthene-d10	1.000	1.000	0.0	134	0.00	8.45
54	t	2-Nitroaniline	0.267	0.214	19.9	107	0.00	7.82
58	t	3-Nitroaniline	0.321	0.281	12.5	113	0.00	8.39
62	t	Dibenzofuran	1.623	1.442	11.2	122	0.00	8.74
68	t	4-Nitroaniline	0.330	0.280	15.2	107	-0.01	9.28
69	I	Phenanthrene-d10	1.000	1.000	0.0	138	0.00	10.67
79	t	Carbazole	1.044	0.890	14.8	120	0.00	11.06

(#) = Out of Range SPCC's out = 0 CCC's out = 0
3E84394.D M3E3699.M Wed Jun 22 15:15:33 2016 MS3E

Initial Calibration Verification

Job Number: JC24133 **Sample:** E3E3699-ICV3699
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 3E84397.D
Project: BMSMC, Building 5 Area, PR

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\E3E3699\3E84397.D Vial: 12
Acq On : 22 Jun 2016 3:11 pm Operator: ashleyn
Sample : icv3699-50 Inst : MS3E
Misc : op94901,e3e3699 Multiplr: 1.00
MS Integration Params: lscint.p

Method : C:\msdchem\1\METHODS\M3E3699.M (RTE Integrator)
Title : Semi Volatile GC/MS,zb-5msplus 30m x .25mm x .25MWed Jun 22 16:35:28 2016
Last Update : Wed Jun 22 16:35:28 2016
Response via : Multiple Level Calibration

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

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	91	0.00	5.11
5	S	2-Fluorophenol	1.240	1.238	0.2	93	0.00	4.11
8	S	Phenol-d5	1.507	1.391	7.7	88	0.00	4.82
24	I	Naphthalene-d8	1.000	1.000	0.0	91	0.00	6.28
25	S	Nitrobenzene-d5	0.305	0.283	7.2	87	0.00	5.58
47	I	Acenaphthene-d10	1.000	1.000	0.0	91	0.00	8.45
51	S	2-Fluorobiphenyl	1.323	1.351	-2.1	94	0.00	7.53
69	I	Phenanthrene-d10	1.000	1.000	0.0	89	0.00	10.67
73	S	2,4,6-Tribromophenol	0.129	0.122	5.4	79	0.00	9.60
83	I	Chrysene-d12	1.000	1.000	0.0	79	-0.01	14.90
85	S	Terphenyl-d14	0.842	0.918	-9.0	87	0.00	13.24

(#) = Out of Range SPCC's out = 0 CCC's out = 0
3E84394.D M3E3699.M Wed Jun 22 16:41:26 2016 MS3E

Initial Calibration Verification

Job Number: JC24133 **Sample:** E3E3699-ICV3699
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 3E84398.D
Project: BMSMC, Building 5 Area, PR

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\E3E3699\3E84398.D Vial: 13
Acq On : 22 Jun 2016 3:39 pm Operator: ashleyn
Sample : icv3699-50 Inst : MS3E
Misc : op94901,e3e3699 Multiplr: 1.00
MS Integration Params: lscint.p

Method : C:\msdchem\1\METHODS\M3E3699.M (RTE Integrator)
Title : Semi Volatile GC/MS,zb-5msplus 30m x .25mm x .25MWed Jun 22 16:35:28 2016
Last Update : Wed Jun 22 16:35:28 2016
Response via : Multiple Level Calibration

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

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	99	0.00	5.12
4	t	N-Nitrosodimethylamine	0.771	0.652	15.4	89	0.01	2.97
11	t	bis(2-Chloroethyl)ether	1.229	1.143	7.0	96	0.00	4.89
14	t	1,3-Dichlorobenzene	1.641	1.483	9.6	95	0.00	5.07
15	t	1,4-Dichlorobenzene	1.695	1.556	8.2	95	0.00	5.13
17	t	1,2-Dichlorobenzene	1.558	1.411	9.4	93	0.00	5.26
20	t	2,2'-oxybis(1-Chloropropa	0.491	0.413	15.9	88	0.00	5.32
22	t	n-Nitroso-di-n-propylamin	0.811	0.656	19.1	83	0.00	5.44
23	t	Hexachloroethane	0.509	0.477	6.3	96	0.00	5.55
24	I	Naphthalene-d8	1.000	1.000	0.0	98	0.00	6.28
26	t	Nitrobenzene	0.323	0.269	16.7	85	0.00	5.60
28	t	Isophorone	0.565	0.523	7.4	94	0.00	5.81
32	t	bis(2-Chloroethoxy)methan	0.365	0.337	7.7	92	0.00	6.01
36	t	1,2,4-Trichlorobenzene	0.322	0.313	2.8	94	0.00	6.22
38	t	Naphthalene	1.092	0.991	9.2	91	0.00	6.30
42	t	Hexachlorobutadiene	0.160	0.155	3.1	97	0.00	6.43
47	I	Acenaphthene-d10	1.000	1.000	0.0	99	0.00	8.45
48	t	Hexachlorocyclopentadiene	0.328	0.278	15.2	76	0.00	7.28
52	t	2-Chloronaphthalene	1.134	1.071	5.6	93	0.00	7.69
55	t	Dimethylphthalate	1.246	1.092	12.4	87	0.00	8.07
56	t	Acenaphthylene	1.932	1.700	12.0	87	0.00	8.25
57	t	2,6-Dinitrotoluene	0.274	0.243	11.3	84	0.00	8.15
59	t	Acenaphthene	1.236	1.112	10.0	90	0.00	8.50
63	t	2,4-Dinitrotoluene	0.344	0.277	19.5	70	0.00	8.72
65	t	Diethylphthalate	1.208	1.037	14.2	86	0.00	9.10
66	t	Fluorene	1.344	1.193	11.2	88	0.00	9.25
67	t	4-Chlorophenyl-phenylethe	0.635	0.579	8.8	91	0.00	9.25
69	I	Phenanthrene-d10	1.000	1.000	0.0	97	0.00	10.67
71	t	n-Nitrosodiphenylamine	0.530	0.465	12.3	86	0.00	9.43
72	t	1,2-Diphenylhydrazine	0.665	0.561	15.6	82	0.00	9.49
74	t	4-Bromophenyl-phenylether	0.213	0.209	1.9	94	0.00	9.99
75	t	Hexachlorobenzene	0.260	0.243	6.5	88	0.00	10.09
77	t	Phenanthrene	1.115	0.986	11.6	88	0.00	10.71
78	t	Anthracene	1.118	0.961	14.0	86	0.00	10.79
80	t	Di-n-butylphthalate	1.270	1.081	14.9	82	0.00	11.66
81	t	Fluoranthene	1.164	0.984	15.5	81	0.00	12.60
83	I	Chrysene-d12	1.000	1.000	0.0	86	0.00	14.90

Initial Calibration Verification

Job Number: JC24133 **Sample:** E3E3699-ICV3699
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 3E84398.D
Project: BMSMC, Building 5 Area, PR

84	t	Pyrene	1.201	1.096	8.7	81	0.00	12.96
86	t	Butylbenzylphthalate	0.544	0.472	13.2	77	0.00	14.06
88	t	Benzo[a]anthracene	1.168	1.015	13.1	78	0.00	14.89
90	t	Chrysene	1.060	0.908	14.3	78	0.00	14.95
91	t	bis(2-Ethylhexyl)phthalat	0.753	0.653	13.3	79	0.00	15.02
92	I	Perylene-d12	1.000	1.000	0.0	88	0.00	17.08
93	t	Di-n-octylphthalate	1.467	1.212	17.4	74	0.00	16.01
94	t	Benzo[b]fluoranthene	1.344	1.083	19.4	68	-0.01	16.51
95	t	Benzo[k]fluoranthene	1.174	1.038	11.6	82	-0.01	16.55
96	t	Benzo[a]pyrene	1.101	0.953	13.4	79	0.00	16.98
97	t	Indeno[1,2,3-cd]pyrene	1.155	1.034	10.5	79	-0.01	18.92
99	t	Dibenz[a,h]anthracene	1.152	0.987	14.3	78	-0.01	18.96
101	t	Benzo[g,h,i]perylene	1.098	0.943	14.1	77	-0.02	19.46

(#) = Out of Range SPCC's out = 0 CCC's out = 0
3E84394.D M3E3699.M Wed Jun 22 16:41:28 2016 MS3E

6.7.5

6

Initial Calibration Verification

Job Number: JC24133
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR
Sample: E3E3699-ICV3699
Lab FileID: 3E84400.D

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\E3E3699\3E84400.D Vial: 15
Acq On : 22 Jun 2016 4:33 pm Operator: ashleyn
Sample : icv3699-50 Inst : MS3E
Misc : op94901,e3e3699 Multiplr: 1.00
MS Integration Params: lscint.p

Method : C:\msdchem\1\METHODS\M3E3699.M (RTE Integrator)
Title : Semi Volatile GC/MS,zb-5msplus 30m x .25mm x .25MWed Jun 22 16:35:28 2016
Last Update : Wed Jun 22 16:35:28 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	114	-0.01	14.90
89 t	3,3'-Dichlorobenzidine	0.475	0.429	9.7	105	0.00	14.87

(#) = Out of Range SPCC's out = 0 CCC's out = 0
3E84394.D M3E3699.M Wed Jun 22 16:57:32 2016 MS3E

Initial Calibration Verification

Job Number: JC24133 **Sample:** E3E3700-ICV3699
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 3E84417.D
Project: BMSMC, Building 5 Area, PR

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\E3E3700\3E84417.D Vial: 11
Acq On : 22 Jun 2016 11:01 pm Operator: seanb1
Sample : icv3699-50 Inst : MS3E
Misc : op94901,e3e3700 Multiplr: 1.00
MS Integration Params: lscint.p

Method : C:\msdchem\1\METHODS\M3E3699.M (RTE Integrator)
Title : Semi Volatile GC/MS,zb-5msplus 30m x .25mm x .25MThu Jun 23 10:08:02 2016
Last Update : Thu Jun 23 10:08:02 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	92	0.00	5.11
2	t	1,4-Dioxane	0.530	0.561	-5.8	102	0.01	2.70
6	t	Indene	2.457	2.628	-7.0	101	0.00	5.33
7	t	Cumene	3.154	3.360	-6.5	102	0.00	4.50
13	t	Decane	1.232	1.269	-3.0	101	0.00	4.97
18	t	Acetophenone	1.829	1.753	4.2	90	0.00	5.44
24	I	Naphthalene-d8	1.000	1.000	0.0	105	0.00	6.28
27	t	Quinoline	0.703	0.482	31.4#	74	-0.02	6.66
40	t	2,3-Dichloroaniline	0.354	0.243	31.4#	74	0.00	7.42
41	t	Caprolactam	0.139	0.107	23.0	88	-0.04	6.71
45	t	1-Methylnaphthalene	0.644	0.575	10.7	97	0.00	7.20
46	t	Dimethylnaphthalene	0.628	0.580	7.6	101	0.00	7.87
47	I	Acenaphthene-d10	1.000	1.000	0.0	92	0.00	8.45
53	t	Biphenyl	1.569	1.706	-8.7	101	0.00	7.66
69	I	Phenanthrene-d10	1.000	1.000	0.0	91	-0.01	10.67
82	t	Octadecane	0.426	0.435	-2.1	93	0.00	10.58
92	I	Perylene-d12	1.000	1.000	0.0	78	-0.01	17.07
100	t	7,12-Dimethylbenz(a)anthr	0.598	0.754	-26.1	93	-0.02	16.50

(#) = Out of Range SPCC's out = 0 CCC's out = 0
3E84410A.D M3E3699.M Thu Jun 23 10:11:02 2016 MS3E

Continuing Calibration Summary

Job Number: JC24133 **Sample:** E3E3739-CC3699
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 3E85304.D
Project: BMSMC, Building 5 Area, PR

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\E3E3739\3E85304.D Vial: 2
Acq On : 19 Jul 2016 12:56 pm Operator: ashleyn
Sample : cc3699-25 Inst : MS3E
Misc : op95610,e3e3739 Multiplr: 1.00
MS Integration Params: lscint.p

Method : C:\msdchem\1\METHODS\M3E3699.M (RTE Integrator)
Title : Semi Volatile GC/MS,zb-5msplus 30m x .25mm x .25MFri Jul 15 16:43:26 2016
Last Update : Fri Jul 15 16:43:26 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	104	0.05	5.04
2	t	1,4-Dioxane	0.530	0.463	12.6	94	0.00	2.61
3	t	Pyridine	1.344	1.247	7.2	97	0.02	2.95
4	t	N-Nitrosodimethylamine	0.771	0.670	13.1	93	0.02	2.91
5	S	2-Fluorophenol	1.240	1.120	9.7	96	0.06	4.06
6	t	Indene	2.457	2.515	-2.4	111	0.06	5.25
7	t	Cumene	3.154	3.190	-1.1	108	0.04	4.42
8	S	Phenol-d5	1.507	1.432	5.0	102	0.08	4.77
9	t	Phenol	1.773	1.783	-0.6	109	0.08	4.78
10		Aniline	1.864	1.902	-2.0	115	0.06	4.78
11	t	bis(2-Chloroethyl)ether	1.229	1.162	5.5	104	0.05	4.82
12	t	2-Chlorophenol	1.464	1.507	-2.9	112	0.07	4.89
13	t	Decane	1.232	1.013	17.8	85	0.04	4.89
14	t	1,3-Dichlorobenzene	1.641	1.639	0.1	109	0.05	4.99
15	t	1,4-Dichlorobenzene	1.695	1.704	-0.5	109	0.06	5.05
16	t	Benzyl alcohol	0.863	0.882	-2.2	110	0.07	5.15
17	t	1,2-Dichlorobenzene	1.558	1.563	-0.3	108	0.06	5.18
18	t	Acetophenone	1.829	1.857	-1.5	108	0.07	5.37
19	t	2-Methylphenol	1.208	1.204	0.3	105	0.08	5.26
20	t	2,2'-oxybis(1-Chloropropa	0.491	0.477	2.9	103	0.05	5.24
21	t	3&4-Methylphenol	1.307	1.296	0.8	105	0.08	5.38
22	t	n-Nitroso-di-n-propylamin	0.811	0.825	-1.7	106	0.06	5.36
23	t	Hexachloroethane	0.509	0.608	-19.4	126	0.05	5.46
24	I	Naphthalene-d8	1.000	1.000	0.0	106	0.06	6.19
25	S	Nitrobenzene-d5	0.305	0.331	-8.5	115	0.06	5.51
26	t	Nitrobenzene	0.323	0.343	-6.2	111	0.06	5.52
27	t	Quinoline	0.703	0.753	-7.1	113	0.07	6.58
28	t	Isophorone	0.565	0.574	-1.6	109	0.06	5.73
29	t	2-Nitrophenol	0.200	0.233	-16.5	124	0.07	5.82
30	t	2,4-Dimethylphenol	0.295	0.333	-12.9	126	0.08	5.85
31	t	Benzoic acid	0.224	0.254	-13.4	128	0.08	5.98
32	t	bis(2-Chloroethoxy)methan	0.365	0.344	5.8	100	0.06	5.92
33	t	2,4-Dichlorophenol	0.297	0.344	-15.8	125	0.08	6.07
34	t	2,6-Dichlorophenol	0.293	0.336	-14.7	127	0.07	6.28
35		1,3,5-Trichlorobenzene	0.347	0.391	-12.7	123	0.06	5.83
36	t	1,2,4-Trichlorobenzene	0.322	0.361	-12.1	121	0.06	6.13
37		1,2,3-Trichlorobenzene	0.314	0.365	-16.2	124	0.07	6.37
38	t	Naphthalene	1.092	1.061	2.8	106	0.06	6.21
39	t	4-Chloroaniline	0.425	0.469	-10.4	118	0.08	6.27
40	t	2,3-Dichloroaniline	0.354	0.420	-18.6	128	0.09	7.34
41	t	Caprolactam	0.139	0.117	15.8	92	0.08	6.66

Continuing Calibration Summary

Job Number: JC24133 **Sample:** E3E3739-CC3699
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 3E85304.D
Project: BMSMC, Building 5 Area, PR

42	t	Hexachlorobutadiene	0.160	0.212	-32.5#	145	0.05	6.33
43	t	4-Chloro-3-methylphenol	0.267	0.300	-12.4	120	0.11	6.83
44	t	2-Methylnaphthalene	0.621	0.723	-16.4	125	0.08	6.98
45	t	1-Methylnaphthalene	0.644	0.725	-12.6	122	0.08	7.11
46	t	Dimethylnaphthalene	0.628	0.737	-17.4	127	0.09	7.77
47	I	Acenaphthene-d10	1.000	1.000	0.0	118	0.07	8.35
48	t	Hexachlorocyclopentadiene	0.328	0.092	72.0#	33#	0.05	7.18
49	t	2,4,6-Trichlorophenol	0.370	0.409	-10.5	134	0.07	7.35
50	t	2,4,5-Trichlorophenol	0.381	0.436	-14.4	139	0.09	7.42
51	S	2-Fluorobiphenyl	1.323	1.363	-3.0	128	0.06	7.43
52	t	2-Chloronaphthalene	1.134	1.139	-0.4	122	0.06	7.60
53	t	Biphenyl	1.569	1.568	0.1	123	0.06	7.57
54	t	2-Nitroaniline	0.267	0.330	-23.6#	143	0.08	7.74
55	t	Dimethylphthalate	1.246	1.348	-8.2	131	0.07	7.97
56	t	Acenaphthylene	1.932	1.907	1.3	120	0.08	8.15
57	t	2,6-Dinitrotoluene	0.274	0.323	-17.9	137	0.08	8.07
58	t	3-Nitroaniline	0.321	0.378	-17.8	136	0.10	8.31
59	t	Acenaphthene	1.236	1.221	1.2	123	0.07	8.39
		----------	True	Calc.	% Drift	----------		
60	t	2,4-Dinitrophenol	50.000	56.146	-12.3	147	0.14	8.50
		----------	AvgRF	CCRF	% Dev	----------		
61	t	4-Nitrophenol	0.114	0.125	-9.6	126	0.18	8.65
62	t	Dibenzofuran	1.623	1.825	-12.4	137	0.08	8.65
63	t	2,4-Dinitrotoluene	0.344	0.456	-32.6#	148	0.12	8.66
64		2,3,4,6-Tetrachlorophenol	0.288	0.292	-1.4	117	0.11	8.85
65	t	Diethylphthalate	1.208	1.323	-9.5	133	0.08	8.99
66	t	Fluorene	1.344	1.416	-5.4	130	0.09	9.15
67	t	4-Chlorophenyl-phenylethe	0.635	0.708	-11.5	137	0.08	9.14
68	t	4-Nitroaniline	0.330	0.370	-12.1	130	0.12	9.21
69	I	Phenanthrene-d10	1.000	1.000	0.0	126	0.09	10.58
		----------	True	Calc.	% Drift	----------		
70	t	4,6-Dinitro-2-methylpheno	25.000	29.934	-19.7	166	0.11	9.28
		----------	AvgRF	CCRF	% Dev	----------		
71	t	n-Nitrosodiphenylamine	0.530	0.553	-4.3	136	0.06	9.33
72	t	1,2-Diphenylhydrazine	0.665	0.601	9.6	117	0.06	9.39
73	S	2,4,6-Tribromophenol	0.129	0.106	17.8	104	0.07	9.52
74	t	4-Bromophenyl-phenylether	0.213	0.228	-7.0	139	0.06	9.89
75	t	Hexachlorobenzene	0.260	0.243	6.5	122	0.08	10.00
		----------	True	Calc.	% Drift	----------		
76	t	Pentachlorophenol	50.000	35.207	29.6#	91	0.11	10.33
		----------	AvgRF	CCRF	% Dev	----------		
77	t	Phenanthrene	1.115	1.125	-0.9	130	0.08	10.61
78	t	Anthracene	1.118	1.157	-3.5	136	0.09	10.70
79	t	Carbazole	1.044	1.073	-2.8	133	0.10	10.97
80	t	Di-n-butylphthalate	1.270	1.281	-0.9	131	0.09	11.55
81	t	Fluoranthene	1.164	1.304	-12.0	147	0.12	12.51
82	t	Octadecane	0.426	0.316	25.8#	94	0.06	10.46
83	I	Chrysene-d12	1.000	1.000	0.0	128	0.10	14.83
84	t	Pyrene	1.201	1.307	-8.8	145	0.07	12.87
85	S	Terphenyl-d14	0.842	0.839	0.4	132	0.06	13.14
86	t	Butylbenzylphthalate	0.544	0.561	-3.1	138	0.06	13.95

Continuing Calibration Summary

Job Number: JC24133 **Sample:** E3E3739-CC3699
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 3E85304.D
Project: BMSMC, Building 5 Area, PR

87		Butyl stearate		----------NA----------				
88	t	Benzo[a]anthracene	1.168	1.225	-4.9	144	0.10	14.81
89	t	3,3'-Dichlorobenzidine	0.475	0.472	0.6	128	0.09	14.79
90	t	Chrysene	1.060	1.127	-6.3	141	0.10	14.87
91	t	bis(2-Ethylhexyl)phthalat	0.753	0.770	-2.3	134	0.07	14.90
92	I	Perylene-d12	1.000	1.000	0.0	115	0.12	17.01
93	t	Di-n-octylphthalate	1.467	1.629	-11.0	135	0.06	15.89
94	t	Benzo[b]fluoranthene	1.344	1.419	-5.6	125	0.11	16.45
95	t	Benzo[k]fluoranthene	1.174	1.264	-7.7	129	0.11	16.49
96	t	Benzo[a]pyrene	1.101	1.178	-7.0	129	0.12	16.93
97	t	Indeno[1,2,3-cd]pyrene	1.155	1.302	-12.7	139	0.14	18.87
98	t	Dibenz(a,h)acridine	1.060	0.991	6.5	115	0.12	18.41
99	t	Dibenz[a,h]anthracene	1.152	1.040	9.7	109	0.12	18.88
100	t	7,12-Dimethylbenz(a)anthr	0.598	0.679	-13.5	133	0.08	16.42
101	t	Benzo[g,h,i]perylene	1.098	1.040	5.3	115	0.14	19.41

(#) = Out of Range SPCC's out = 0 CCC's out = 0
3E84411A.D M3E3699.M Tue Jul 19 16:22:56 2016 MS3E

6.7.8

6

Initial Calibration Summary

Job Number: JC24133 **Sample:** E3M2975-ICC2975
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 3M62957.D
Project: BMSMC, Building 5 Area, PR

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: JC24133 **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: JC24133
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: JC24133 **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: JC24133
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: JC24133 **Sample:** E3M2979-CC2975
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 3M62991.D
Project: BMSMC, Building 5 Area, PR

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\DATA\E3M2979\3m62991.D          Vial: 2
Acq On    : 15 Jul 2016   9:48 pm                    Operator: juliusj
Sample    : cc2975-0.5                               Inst    : MS3M
Misc      : op95160a,e3m2979                         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 :  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	116	-0.10	10.20
2	t	1,4-dioxane	0.220	0.217	1.4	123	-0.05	2.04
3	S	2-Fluorophenol	0.557	0.575	-3.2	120	-0.08	4.23
4	S	Phenol-d5	0.823	0.869	-5.6	121	-0.10	5.82
5		Phenol	0.859	0.918	-6.9	121	-0.08	5.84
6	t	bis(2-Chloroethyl)ether	0.636	0.701	-10.2	122	-0.08	5.92
7	S	Nitrobenzene-d5	0.773	0.857	-10.9	130	-0.09	7.33
8	t	Nitrobenzene	0.783	0.914	-16.7	136	-0.08	7.37
9	t	Naphthalene	2.340	2.214	5.4	110	-0.08	8.73
10	t	Hexachlorobutadiene	0.419	0.406	3.1	109	-0.09	9.03
11	t	2-Methylnaphthalene	1.224	1.157	5.5	111	-0.08	10.10
12	t	1-Methylnaphthalene	1.336	1.267	5.2	106	-0.08	10.28
		----------	True	Calc.	% Drift	----------		
13		Hexachlorocyclopentadiene	1.000	1.051	-5.1	142	-0.08	10.45
		----------	AvgRF	CCRF	% Dev	----------		
14	I	Fluorene-d10	1.000	1.000	0.0	120	-0.09	13.18
15	S	2-Fluorobiphenyl	1.086	1.205	-11.0	121	-0.10	10.88
16	t	Acenaphthylene	1.326	1.450	-9.4	125	-0.09	11.84
17	t	Acenaphthene	0.864	0.937	-8.4	123	-0.08	12.21
		----------	True	Calc.	% Drift	----------		
18	t	4,6-dinitro-2-methylpheno	2.500	1.964	21.4#	98	-0.09	13.41
		----------	AvgRF	CCRF	% Dev	----------		
19	t	Fluorene	0.968	1.128	-16.5	134	-0.09	13.24
20	S	2,4,6-Tribromophenol	0.167	0.169	-1.2	117	-0.11	13.73
21	I	Fluoranthene-d10	1.000	1.000	0.0	123	-0.09	17.39
22	t	Hexachlorobenzene	0.214	0.224	-4.7	119	-0.09	14.34
		----------	True	Calc.	% Drift	----------		
23	t	Pentachlorophenol	2.500	2.356	5.8	143	-0.09	14.77
		----------	AvgRF	CCRF	% Dev	----------		
24	t	Phenanthrene	0.885	0.955	-7.9	125	-0.09	15.13
25	t	Anthracene	0.835	0.890	-6.6	129	-0.08	15.24
26	t	Fluoranthene	1.094	1.111	-1.6	119	-0.09	17.42
27	t	Pyrene	1.032	1.107	-7.3	128	-0.08	17.82
28	S	Terphenyl-d14	0.610	0.635	-4.1	117	-0.11	18.21

Continuing Calibration Summary

Job Number: JC24133 **Sample:** E3M2979-CC2975
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 3M62991.D
Project: BMSMC, Building 5 Area, PR

29	t	Benzo[a]anthracene	0.859	0.938	-9.2	137	-0.09	19.90
30	t	Chrysene	0.907	1.044	-15.1	139	-0.08	19.97
31	I	Benzo(a)pyrene-d12	1.000	1.000	0.0	122	-0.08	22.00
32	t	Benzo[b]fluoranthene	1.300	1.254	3.5	116	-0.09	21.56
33	t	Benzo[k]fluoranthene	1.180	1.187	-0.6	112	-0.09	21.60
34	t	Benzo[a]pyrene	1.195	1.217	-1.8	115	-0.09	22.01
35	t	Indeno[1,2,3-cd]pyrene	1.218	1.279	-5.0	128	-0.09	23.46
36	t	Dibenz[a,h]anthracene	1.012	1.028	-1.6	123	-0.09	23.50
37	t	Benzo[g,h,i]perylene	1.108	1.176	-6.1	123	-0.11	23.78

(#) = Out of Range SPCC's out = 0 CCC's out = 0
3m62958.D M3M2975SIM.M Sun Jul 17 14:45:11 2016 RPT1

Continuing Calibration Summary

Job Number: JC24133 **Sample:** E3M2980-CC2975
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 3M63012.D
Project: BMSMC, Building 5 Area, PR

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\DATA\E3M2980\3m63012.D          Vial: 2
Acq On    : 18 Jul 2016   9:16 am                    Operator: ashleyd
Sample    : cc2975-1.0                               Inst    : MS3M
Misc      : op95160a,e3m2980                         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  : Mon Jul 18 15:41:37 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	109	0.00	10.18
2	t	1,4-dioxane	0.220	0.238	-8.2	124	-0.05	2.00
3	S	2-Fluorophenol	0.557	0.606	-8.8	121	-0.06	4.20
4	S	Phenol-d5	0.823	0.889	-8.0	117	-0.04	5.81
5		Phenol	0.859	0.958	-11.5	119	-0.04	5.82
6	t	bis(2-Chloroethyl)ether	0.636	0.707	-11.2	115	0.00	5.89
7	S	Nitrobenzene-d5	0.773	0.830	-7.4	117	-0.02	7.32
8	t	Nitrobenzene	0.783	0.878	-12.1	120	0.00	7.35
9	t	Naphthalene	2.340	2.176	7.0	103	0.01	8.71
10	t	Hexachlorobutadiene	0.419	0.382	8.8	98	0.00	9.01
11	t	2-Methylnaphthalene	1.224	1.194	2.5	109	0.02	10.08
12	t	1-Methylnaphthalene	1.336	1.314	1.6	107	0.02	10.26
		----------	True	Calc.	% Drift		----------	
13		Hexachlorocyclopentadiene	2.000	1.632	18.4	96	0.02	10.43
		----------	AvgRF	CCRF	% Dev		----------	
14	I	Fluorene-d10	1.000	1.000	0.0	101	0.00	13.16
15	S	2-Fluorobiphenyl	1.086	1.177	-8.4	113	-0.03	10.86
16	t	Acenaphthylene	1.326	1.592	-20.1#	118	0.00	11.82
17	t	Acenaphthene	0.864	0.995	-15.2	114	0.00	12.18
		----------	True	Calc.	% Drift		----------	
18	t	4,6-dinitro-2-methylpheno	5.000	4.070	18.6	77	0.00	13.39
		----------	AvgRF	CCRF	% Dev		----------	
19	t	Fluorene	0.968	1.167	-20.6#	123	0.00	13.22
20	S	2,4,6-Tribromophenol	0.167	0.174	-4.2	103	-0.01	13.71
21	I	Fluoranthene-d10	1.000	1.000	0.0	101	0.00	17.37
22	t	Hexachlorobenzene	0.214	0.239	-11.7	107	-0.02	14.33
		----------	True	Calc.	% Drift		----------	
23	t	Pentachlorophenol	5.000	5.355	-7.1	117	-0.02	14.76
		----------	AvgRF	CCRF	% Dev		----------	
24	t	Phenanthrene	0.885	1.062	-20.0	112	-0.01	15.11
25	t	Anthracene	0.835	1.019	-22.0#	117	-0.01	15.21
26	t	Fluoranthene	1.094	1.254	-14.6	114	0.00	17.40
27	t	Pyrene	1.032	1.275	-23.5#	119	0.00	17.79
28	S	Terphenyl-d14	0.610	0.686	-12.5	108	-0.01	18.19

Continuing Calibration Summary

Job Number: JC24133 **Sample:** E3M2980-CC2975
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 3M63012.D
Project: BMSMC, Building 5 Area, PR

29	t	Benzo[a]anthracene	0.859	1.104	-28.5#	125	0.00	19.89
30	t	Chrysene	0.907	1.065	-17.4	113	0.00	19.95
31	I	Benzo(a)pyrene-d12	1.000	1.000	0.0	101	0.00	21.98
32	t	Benzo[b]fluoranthene	1.300	1.389	-6.8	105	0.00	21.54
33	t	Benzo[k]fluoranthene	1.180	1.342	-13.7	104	0.00	21.58
34	t	Benzo[a]pyrene	1.195	1.333	-11.5	112	-0.02	22.00
35	t	Indeno[1,2,3-cd]pyrene	1.218	1.441	-18.3	116	-0.01	23.44
36	t	Dibenz[a,h]anthracene	1.012	1.155	-14.1	111	-0.01	23.48
37	t	Benzo[g,h,i]perylene	1.108	1.265	-14.2	110	-0.03	23.76

(#) = Out of Range SPCC's out = 0 CCC's out = 0
3m62957.D M3M2975SIM.M Mon Jul 18 15:46:16 2016 RPT1

Continuing Calibration Summary

Job Number: JC24133 **Sample:** E3M2982-CC2975
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 3M63044.D
Project: BMSMC, Building 5 Area, PR

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\E3M2982\3m63044.D Vial: 2
Acq On : 19 Jul 2016 9:09 am Operator: ashleyd
Sample : cc2975-0.5 Inst : MS3M
Misc : op95160a,e3m2982 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 : Mon Jul 18 15:41:37 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	169	0.06	10.24
2	t	1,4-dioxane	0.220	0.185	15.9	152	0.00	2.05
3	S	2-Fluorophenol	0.557	0.500	10.2	152	-0.01	4.24
4	S	Phenol-d5	0.823	0.757	8.0	153	0.00	5.84
5		Phenol	0.859	0.803	6.5	154	0.00	5.85
6	t	bis(2-Chloroethyl)ether	0.636	0.602	5.3	152	0.05	5.94
7	S	Nitrobenzene-d5	0.773	0.664	14.1	146	0.01	7.35
8	t	Nitrobenzene	0.783	0.685	12.5	148	0.03	7.39
9	t	Naphthalene	2.340	1.975	15.6	143	0.05	8.75
10	t	Hexachlorobutadiene	0.419	0.340	18.9	133	0.05	9.07
11	t	2-Methylnaphthalene	1.224	1.150	6.0	161	0.06	10.12
12	t	1-Methylnaphthalene	1.336	1.256	6.0	153	0.06	10.30
		----------	True	Calc.	% Drift	----------		
13		Hexachlorocyclopentadiene	1.000	0.640	36.0#	108	0.08	10.49
		----------	AvgRF	CCRF	% Dev	----------		
14	I	Fluorene-d10	1.000	1.000	0.0	147	0.06	13.22
15	S	2-Fluorobiphenyl	1.086	0.926	14.7	114	0.03	10.92
16	t	Acenaphthylene	1.326	1.440	-8.6	152	0.05	11.88
17	t	Acenaphthene	0.864	0.921	-6.6	147	0.06	12.24
		----------	True	Calc.	% Drift	----------		
18	t	4,6-dinitro-2-methylpheno	2.500	1.811	27.6#	108	0.06	13.44
		----------	AvgRF	CCRF	% Dev	----------		
19	t	Fluorene	0.968	1.029	-6.3	149	0.06	13.28
20	S	2,4,6-Tribromophenol	0.167	0.159	4.8	134	0.04	13.77
21	I	Fluoranthene-d10	1.000	1.000	0.0	144	0.06	17.43
22	t	Hexachlorobenzene	0.214	0.214	0.0	132	0.03	14.37
		----------	True	Calc.	% Drift	----------		
23	t	Pentachlorophenol	2.500	2.658	-6.3	193	0.03	14.80
		----------	AvgRF	CCRF	% Dev	----------		
24	t	Phenanthrene	0.885	0.973	-9.9	149	0.03	15.16
25	t	Anthracene	0.835	0.903	-8.1	153	0.05	15.27
26	t	Fluoranthene	1.094	1.126	-2.9	142	0.06	17.46
27	t	Pyrene	1.032	1.131	-9.6	153	0.06	17.85
28	S	Terphenyl-d14	0.610	0.637	-4.4	138	0.05	18.25

Continuing Calibration Summary

Job Number: JC24133 **Sample:** E3M2982-CC2975
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 3M63044.D
Project: BMSMC, Building 5 Area, PR

29	t	Benzo[a]anthracene	0.859	0.939	-9.3	161	0.06	19.95
30	t	Chrysene	0.907	1.034	-14.0	161	0.05	20.00
31	I	Benzo(a)pyrene-d12	1.000	1.000	0.0	145	0.06	22.03
32	t	Benzo[b]fluoranthene	1.300	1.300	0.0	143	0.06	21.60
33	t	Benzo[k]fluoranthene	1.180	1.245	-5.5	140	0.06	21.64
34	t	Benzo[a]pyrene	1.195	1.235	-3.3	139	0.04	22.05
35	t	Indeno[1,2,3-cd]pyrene	1.218	1.304	-7.1	155	0.04	23.50
36	t	Dibenz[a,h]anthracene	1.012	1.083	-7.0	154	0.04	23.54
37	t	Benzo[g,h,i]perylene	1.108	1.177	-6.2	147	0.05	23.84

(#) = Out of Range SPCC's out = 0 CCC's out = 0
3m62958.D M3M2975SIM.M Tue Jul 19 15:42:20 2016 RPT1

Continuing Calibration Summary

Job Number: JC24133 **Sample:** E3M2983-ECC2975
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 3M63076.D
Project: BMSMC, Building 5 Area, PR

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\DATA\E3M2983\3m63076.D          Vial: 2
Acq On    : 20 Jul 2016   3:24 am                     Operator: ashleyd
Sample    : ecc2975-1.0                               Inst    : MS3M
Misc      : op95511a,e3m2983                          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  : Mon Jul 18 15:41:37 2016
Response via : Multiple Level Calibration

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

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	1-Methylnaphthalene-d10	1.000	1.000	0.0	140	0.04	10.22
2	t	1,4-dioxane	0.220	0.188	14.5	126	-0.02	2.04
3	S	2-Fluorophenol	0.557	0.475	14.7	122	-0.03	4.23
4	S	Phenol-d5	0.823	0.693	15.8	117	-0.01	5.83
5		Phenol	0.859	0.752	12.5	121	-0.01	5.84
6	t	bis(2-Chloroethyl)ether	0.636	0.585	8.0	123	0.04	5.93
7	S	Nitrobenzene-d5	0.773	0.621	19.7	112	0.01	7.35
8	t	Nitrobenzene	0.783	0.684	12.6	121	0.01	7.37
9	t	Naphthalene	2.340	1.875	19.9	114	0.03	8.73
10	t	Hexachlorobutadiene	0.419	0.377	10.0	125	0.03	9.05
11	t	2-Methylnaphthalene	1.224	1.054	13.9	123	0.04	10.10
12	t	1-Methylnaphthalene	1.336	1.141	14.6	120	0.04	10.28
		----------	True	Calc.	% Drift		----------	
13		Hexachlorocyclopentadiene	2.000	1.381	30.9	101	0.06	10.47
		----------	AvgRF	CCRF	% Dev		----------	
14	I	Fluorene-d10	1.000	1.000	0.0	119	0.04	13.20
15	S	2-Fluorobiphenyl	1.086	1.057	2.7	120	0.01	10.90
16	t	Acenaphthylene	1.326	1.408	-6.2	122	0.02	11.85
17	t	Acenaphthene	0.864	0.905	-4.7	122	0.04	12.22
		----------	True	Calc.	% Drift		----------	
18	t	4,6-dinitro-2-methylpheno	5.000	3.696	26.1	80	0.06	13.45
		----------	AvgRF	CCRF	% Dev		----------	
19	t	Fluorene	0.968	1.034	-6.8	128	0.04	13.26
20	S	2,4,6-Tribromophenol	0.167	0.151	9.6	105	0.02	13.75
21	I	Fluoranthene-d10	1.000	1.000	0.0	119	0.05	17.42
22	t	Hexachlorobenzene	0.214	0.219	-2.3	116	0.01	14.36
		----------	True	Calc.	% Drift		----------	
23	t	Pentachlorophenol	5.000	3.965	20.7	98	0.03	14.81
		----------	AvgRF	CCRF	% Dev		----------	
24	t	Phenanthrene	0.885	0.954	-7.8	118	0.02	15.15
25	t	Anthracene	0.835	0.961	-15.1	130	0.03	15.25
26	t	Fluoranthene	1.094	1.111	-1.6	119	0.03	17.43
27	t	Pyrene	1.032	1.166	-13.0	128	0.05	17.83
28	S	Terphenyl-d14	0.610	0.640	-4.9	119	0.04	18.24

Continuing Calibration Summary

Job Number: JC24133 **Sample:** E3M2983-ECC2975
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 3M63076.D
Project: BMSMC, Building 5 Area, PR

29	t	Benzo[a]anthracene	0.859	0.914	-6.4	122	0.03	19.92
30	t	Chrysene	0.907	1.062	-17.1	132	0.03	19.98
31	I	Benzo(a)pyrene-d12	1.000	1.000	0.0	115	0.04	22.01
32	t	Benzo[b]fluoranthene	1.300	1.337	-2.8	115	0.04	21.58
33	t	Benzo[k]fluoranthene	1.180	1.345	-14.0	118	0.04	21.62
34	t	Benzo[a]pyrene	1.195	1.315	-10.0	125	0.02	22.03
35	t	Indeno[1,2,3-cd]pyrene	1.218	1.270	-4.3	116	0.03	23.48
36	t	Dibenz[a,h]anthracene	1.012	1.016	-0.4	111	0.03	23.52
37	t	Benzo[g,h,i]perylene	1.108	1.172	-5.8	116	0.03	23.82

(#) = Out of Range SPCC's out = 0 CCC's out = 0
3m62957.D M3M2975SIM.M Wed Jul 20 09:36:48 2016 RPT1

Initial Calibration Summary

Job Number: JC24133 **Sample:** E5P1496-ICC1496
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 5P29330.D
Project: BMSMC, Building 5 Area, PR

Response Factor Report MS5P

Method : C:\MSDCHEM\1\METHODS\M5P1496.M (RTE Integrator)
Title : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
Last Update : Sun Jul 03 15:53:32 2016
Response via : Initial Calibration

Calibration Files
2 =5p29327.D 5 =5p29331a.D 25 =5p29332.D 80 =5p29328.D
100 =5p29326.D 50 =5p29330.D 1 =5p29329.D 10 =5p29333.D

Compound	2	5	25	80	100	50	1	10	Avg	%RSD
1) I 1,4-Dichlorobenzene-d	----------ISTD----------									
2) 1,4-Dioxane	0.612	0.553	0.526	0.530	0.517	0.461	0.646	0.511	0.544	10.82
3) Pyridine	1.318	1.263	1.249	1.397	1.279	1.329	1.321	1.238	1.299	4.03
4) N-Nitrosodim	0.745	0.702	0.701	0.796	0.723	0.751	0.740	0.692	0.731	4.68
5) 2-Fluorophen	1.050	1.200	1.254	1.311	1.245	1.256	1.222	1.203	1.218	6.28
6) Indene	2.431	2.339	2.258	2.189	2.261	2.140	2.367	2.300	2.286	4.15
7) Cumene	3.289	3.227	3.136	3.173	3.098	3.061	3.272	3.088	3.168	2.74
8) Phenol-d5	1.447	1.470	1.506	1.579	1.514	1.511	1.320	1.482	1.479	5.08
9) Phenol	1.758	1.794	1.796	1.839	1.781	1.787	1.660	1.800	1.777	2.95
10) Aniline	1.997	2.001	1.908	1.876	1.740	1.843	2.015	1.950	1.916	4.93
11) bis(2-Chloro	1.196	1.152	1.135	1.182	1.123	1.137	1.147	1.172	1.155	2.18
12) 2-Chlorophen	1.460	1.428	1.408	1.437	1.396	1.391	1.461	1.416	1.424	1.87
13) Decane	1.327	1.267	1.180	1.171	1.162	1.140	1.331	1.198	1.222	6.21
14) 1,3-Dichloro	1.642	1.588	1.542	1.526	1.488	1.497	1.625	1.560	1.559	3.61
15) 1,4-Dichloro	1.562	1.564	1.516	1.411	1.477	1.476	1.676	1.496	1.522	5.22
16) Benzyl alcoh	0.838	0.830	0.845	0.818	0.839	0.846	0.782	0.827	0.828	2.51
17) 1,2-Dichloro	1.526	1.497	1.406	1.315	1.362	1.376	1.586	1.446	1.439	6.36
18) Acetophenone	1.809	1.777	1.683	1.677	1.768	1.632	1.848	1.755	1.744	4.20
19) 2-Methylphen	1.217	1.182	1.165	1.147	1.152	1.128	1.159	1.186	1.167	2.36
20) 2,2'-oxybis(	1.716	1.572	1.502	1.453	1.420	1.424	1.632	1.524	1.531	6.85
21) 3&4-Methylph	1.277	1.247	1.210	1.207	1.256	1.168	1.283	1.232	1.235	3.14
22) n-Nitroso-di	0.844	0.771	0.753	0.747	0.781	0.730	0.861	0.788	0.784	5.90
23) Hexachloroet	0.465	0.475	0.460	0.475	0.459	0.450	0.439	0.461	0.461	2.60
24) I Naphthalene-d8	----------ISTD----------									
25) Nitrobenzene	0.269	0.292	0.299	0.283	0.302	0.292	0.304	0.288	0.291	3.90
26) Nitrobenzene	0.287	0.304	0.303	0.284	0.306	0.295	0.322	0.298	0.300	3.93
27) Quinoline	0.663	0.662	0.666	0.637	0.652	0.667	0.696	0.659	0.663	2.50
28) Isophorone	0.553	0.550	0.541	0.519	0.547	0.543	0.468	0.530	0.531	5.26
29) 2-Nitropheno	0.181	0.182	0.195	0.185	0.195	0.196	0.181	0.190	0.188	3.48
30) 2,4-Dimethyl	0.337	0.320	0.318	0.293	0.314	0.309	0.349	0.306	0.318	5.55
31) Benzoic acid		0.075	0.159	0.209	0.228	0.206		0.081	0.160	41.99
----- Quadratic regression -----								Coefficient =		0.9981
Response Ratio = -0.02120 + 0.19057 *A + 0.01755 *A^2										
32) bis(2-Chloro	0.357	0.350	0.338	0.311	0.332	0.335	0.368	0.330	0.340	5.19
33) 2,4-Dichloro	0.282	0.281	0.282	0.268	0.275	0.281	0.273	0.283	0.278	2.00
34) 2,6-Dichloro	0.286	0.278	0.273	0.250	0.270	0.266	0.299	0.266	0.273	5.29
35) 1,3,5-Trichl	0.326	0.309	0.301	0.269	0.288	0.285	0.327	0.294	0.300	6.66
36) 1,2,4-Trichl	0.291	0.290	0.283	0.264	0.275	0.278	0.302	0.281	0.283	4.02
37) 1,2,3-Trichl	0.286	0.288	0.281	0.254	0.271	0.270	0.290	0.269	0.276	4.49
38) Naphthalene	0.958	0.969	0.945	0.872	0.921	0.916	1.006	0.936	0.940	4.25
39) 4-Chloroanil	0.395	0.398	0.401	0.369	0.392	0.391	0.389	0.399	0.392	2.57
40) 2,3-Dichloro	0.344	0.340	0.325	0.297	0.324	0.317	0.331	0.328	0.326	4.42
41) Caprolactam	0.135	0.125	0.127	0.126	0.132	0.130	0.133	0.123	0.129	3.42
42) Hexachlorobu	0.148	0.146	0.146	0.135	0.147	0.142	0.150	0.142	0.145	3.29

Initial Calibration Summary

Job Number: JC24133 **Sample:** E5P1496-ICC1496
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 5P29330.D
Project: BMSMC, Building 5 Area, PR

```
43) 4-Chloro-3-m 0.294 0.277 0.279 0.264 0.281 0.277 0.241 0.276 0.274   5.66
44) 2-Methylnaph 0.553 0.556 0.540 0.494 0.534 0.527 0.477 0.539 0.528   5.28
45) 1-Methylnaph 0.607 0.581 0.567 0.519 0.551 0.553 0.599 0.564 0.567   4.97
46) Dimethylnaph 0.581 0.584 0.577 0.518 0.559 0.503 0.580 0.570 0.559   5.58

47) I   Acenaphthene-d10      ----------------ISTD---------------------
48) Hexachlorocy       0.197 0.262 0.236 0.271 0.240       0.225 0.238  11.16
49) 2,4,6-Trichl 0.287 0.298 0.333 0.272 0.299 0.279 0.300 0.316 0.298   6.61
50) 2,4,5-Trichl 0.294 0.300 0.347 0.293 0.303 0.299 0.307 0.323 0.308   5.91
51) 2-Fluorobiph 1.111 1.073 1.179 0.953 1.022 0.981 1.124 1.121 1.070   7.33
52) 2-Chloronaph 1.017 0.970 1.060 0.848 0.906 0.877 1.021 1.008 0.964   7.99
53) Biphenyl     1.317 1.311 1.453 1.150 1.259 1.209 1.356 1.369 1.303   7.34
54) 2-Nitroanili 0.233 0.240 0.279 0.239 0.261 0.217 0.257 0.252 0.247   7.77
55) Dimethylphth 0.838 1.063 1.185 0.956 1.029 0.891 1.061 1.000 1.003  10.85
56) Acenaphthyle 1.299 1.606 1.710 1.441 1.542 1.520 1.600 1.513 1.529   8.01
57) 2,6-Dinitrot 0.172 0.223 0.266 0.231 0.246 0.224 0.203 0.219 0.223  12.57
58) 3-Nitroanili 0.260 0.273 0.297 0.282 0.291 0.295 0.262 0.276 0.279   5.12
59) Acenaphthene 1.008 0.974 0.958 0.856 0.937 0.894 0.969 0.938 0.942   5.08
60) 2,4-Dinitrop 0.020 0.036 0.097 0.124 0.137 0.124       0.060 0.085  54.83
         ----- Quadratic regression -----                Coefficient =  0.9980
              Response Ratio = -0.01715 + 0.10855 *A + 0.00606 *A^2

61) 4-Nitropheno 0.104 0.107 0.129 0.123 0.142 0.125 0.086 0.111 0.116  14.89
62) Dibenzofuran 1.293 1.370 1.262 1.175 1.256 1.252 1.436 1.303 1.293   6.14
63) 2,4-Dinitrot 0.291 0.312 0.320 0.312 0.328 0.324 0.266 0.304 0.307   6.66
64) 2,3,4,6-Tetr 0.183 0.203 0.260 0.249 0.264 0.256 0.202 0.233 0.231  13.46
65) Diethylphtha 0.948 0.941 1.093 0.944 1.026 0.994 1.049 1.014 1.001   5.49
66) Fluorene     1.101 0.984 1.114 0.906 1.041 0.972 1.116 1.028 1.033   7.37
67) 4-Chlorophen 0.472 0.417 0.474 0.390 0.454 0.421 0.485 0.432 0.443   7.48
68) 4-Nitroanili 0.271 0.251 0.304 0.281 0.292 0.289 0.280 0.285 0.282   5.64

69) I   Phenanthrene-d10      ----------------ISTD---------------------
70) 4,6-Dinitro- 0.035 0.049 0.093 0.113 0.120 0.115       0.075 0.086  39.36
         ----- Quadratic regression -----                Coefficient =  0.9985
              Response Ratio = -0.00663 + 0.10701 *A + 0.00592 *A^2

71) n-Nitrosodip 0.466 0.404 0.413 0.404 0.429 0.434 0.496 0.441 0.436   7.34
72) 1,2-Diphenyl 0.597 0.530 0.566 0.526 0.590 0.562 0.569 0.575 0.565   4.51
73) 2,4,6-Tribro 0.082 0.071 0.089 0.086 0.089 0.089 0.089 0.085 0.085   7.26
74) 4-Bromopheny 0.191 0.177 0.175 0.166 0.179 0.177 0.173 0.171 0.176   4.22
75) Hexachlorobe 0.195 0.189 0.187 0.177 0.187 0.189 0.206 0.190 0.190   4.35
76) Pentachlorop 0.037 0.053 0.092 0.100 0.113 0.105       0.071 0.082  34.99
         ----- Quadratic regression -----                Coefficient =  0.9966
              Response Ratio = -0.00688 + 0.09035 *A + 0.00433 *A^2

77) Phenanthrene 0.928 0.935 0.888 0.811 0.874 0.866 0.964 0.904 0.896   5.33
78) Anthracene   0.949 0.984 0.920 0.842 0.897 0.896 0.960 0.942 0.924   4.86
79) Carbazole    0.933 0.922 0.907 0.831 0.878 0.887 0.923 0.911 0.899   3.70
80) Di-n-butylph 1.094 1.123 1.106 1.015 1.106 1.091 1.073 1.086 1.087   2.99
81) Fluoranthene 0.966 0.984 0.954 0.878 0.923 0.937 1.032 0.950 0.953   4.71
82) Octadecane   0.383 0.401 0.384 0.347 0.382 0.373 0.406 0.390 0.383   4.75

83) I   Chrysene-d12          ----------------ISTD---------------------
84) Pyrene       1.224 1.220 1.173 1.107 1.125 1.142 1.235 1.192 1.177   4.12
85) Terphenyl-d1 0.772 0.787 0.761 0.740 0.746 0.742 0.783 0.766 0.762   2.37
86) Butylbenzylp 0.575 0.573 0.586 0.562 0.583 0.572 0.555 0.564 0.571   1.81
87) Benzo[a]anth 1.155 1.121 1.058 1.006 1.062 1.024 1.183 1.069 1.085   5.76
88) 3,3'-Dichlor 0.432 0.405 0.417 0.400 0.406 0.408 0.430 0.404 0.413   2.98
89) Chrysene     1.090 1.076 1.040 1.001 1.034 1.018 1.146 1.039 1.056   4.41
90) bis(2-Ethylh 0.774 0.776 0.787 0.759 0.799 0.770 0.745 0.758 0.771   2.26
```

Initial Calibration Summary

Job Number: JC24133 **Sample:** E5P1496-ICC1496
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 5P29330.D
Project: BMSMC, Building 5 Area, PR

```
 91) I   Perylene-d12          ----------------ISTD---------------------
 92) Di-n-octylph 1.467 1.449 1.469 1.387 1.532 1.443 1.452 1.427 1.453   2.83
 93) Benzo[b]fluo 1.231 1.214 1.123 1.079 1.210 1.118 1.316 1.167 1.182   6.44
 94) Benzo[k]fluo 1.259 1.160 1.099 0.998 1.094 1.056 1.256 1.110 1.129   8.14
 95) Benzo[a]pyre 1.107 1.066 1.045 0.998 1.063 1.041 1.188 1.045 1.069   5.31
 96) Indeno[1,2,3 0.939 0.993 1.009 1.014 1.088 1.047 1.108 0.973 1.021   5.58
 97) Dibenz(a,h)a 0.982 0.923 0.943 0.918 0.964 0.950 1.090 0.932 0.963   5.78
 98) Dibenz[a,h]a 1.070 1.038 1.051 1.012 1.070 1.045 1.230 1.058 1.072   6.23
 99) 7,12-Dimethy 0.544 0.559 0.522 0.492 0.559 0.513 0.626 0.535 0.544   7.39
100) Benzo[g,h,i] 1.055 1.054 1.051 1.035 1.106 1.047 1.215 1.032 1.075   5.70


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

          M5P1496.M         Sun Jul 03 16:08:47 2016   RPT1
```

Initial Calibration Summary

Job Number: JC24133 **Sample:** E5P1497-ICC1497
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 5P29338.D
Project: BMSMC, Building 5 Area, PR

Response Factor Report MS5P

Method : C:\MSDCHEM\1\METHODS\M5P1497.M (RTE Integrator)
Title : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
Last Update : Sun Jul 03 15:53:32 2016
Response via : Initial Calibration

Calibration Files
2 =5p29342.D 5 =5p29341.D 25 =5p29339.D 80 =5p29337.D
100 =5p29336.D 50 =5p29338.D 1 =5p29343.D 10 =5p29340.D

Compound	2	5	25	80	100	50	1	10	Avg	%RSD
101) 1,4-Dichlorobenzene-d	ISTD									
102) Benzaldehyde	1.175	1.137	1.037	0.734		0.976	1.114	1.025	1.028	14.31
103) Acenaphthene-d10a	ISTD									
104) 1,2,4,5-Tetr	0.549	0.545	0.476	0.435	0.493	0.458	0.556	0.498	0.501	8.99
105) Chrysene-d12a	ISTD									
106) Benzidine		0.507	0.449	0.471	0.506	0.466		0.616	0.503	11.95
107) 1-chloroocta	0.334	0.357	0.307	0.311	0.292	0.297	0.355	0.305	0.320	8.02
108) Phenanthrene-d10a	ISTD									
109) o-terphenyl	0.621	0.654	0.548	0.483	0.517	0.542	0.646	0.574	0.573	10.87
110) Atrazine	0.117	0.114	0.105	0.101	0.100	0.097	0.113	0.108	0.107	6.82
111) I Naphthalene-d8a	ISTD									
112) Hydroquinone	0.261	0.320	0.343	0.329	0.338	0.347	0.246	0.300	0.310	12.38

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

M5P1496.M Sun Jul 03 16:22:01 2016 RPT1

Initial Calibration Verification

Job Number: JC24133 **Sample:** E5P1497-ICV1496
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 5P29344.D
Project: BMSMC, Building 5 Area, PR

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\DATA\E5P1497\5p29344.D          Vial: 10
Acq On    :  1 Jul 2016   8:27 pm                    Operator: ashleyn
Sample    : icv1496-50                               Inst    : MS5P
Misc      : op94797,e5p1497                          Multiplr: 1.00
MS Integration Params: lscint.p

Method       : C:\MSDCHEM\1\METHODS\M5P1496.M (RTE Integrator)
Title        : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
Last Update  : Sun Jul 03 15:53:32 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	101	0.00	5.00
9	t	Phenol	1.777	1.503	15.4	85	0.00	4.67
12	t	2-Chlorophenol	1.424	1.292	9.3	94	0.00	4.81
19	t	2-Methylphenol	1.167	1.129	3.3	101	0.00	5.23
21	t	3&4-Methylphenol	1.235	1.187	3.9	103	0.00	5.37
24	I	Naphthalene-d8	1.000	1.000	0.0	92	0.00	6.21
29	t	2-Nitrophenol	0.188	0.187	0.5	88	0.00	5.84
30	t	2,4-Dimethylphenol	0.318	0.313	1.6	94	0.00	5.88
33	t	2,4-Dichlorophenol	0.278	0.271	2.5	89	0.00	6.07
34	t	2,6-Dichlorophenol	0.273	0.263	3.7	91	0.00	6.29
43	t	4-Chloro-3-methylphenol	0.274	0.259	5.5	87	0.00	6.75
47	I	Acenaphthene-d10	1.000	1.000	0.0	80	0.00	7.93
49	t	2,4,6-Trichlorophenol	0.298	0.314	-5.4	90	0.00	7.18
50	t	2,4,5-Trichlorophenol	0.308	0.317	-2.9	85	0.00	7.22
		----------	True	Calc.	% Drift	----------		
60	t	2,4-Dinitrophenol	50.000	38.680	22.6	48#	0.00	7.98
		----------	AvgRF	CCRF	% Dev	----------		
61	t	4-Nitrophenol	0.116	0.117	-0.9	75	0.00	8.04
64		2,3,4,6-Tetrachlorophenol	0.231	0.234	-1.3	73	0.00	8.25
69	I	Phenanthrene-d10	1.000	1.000	0.0	77	0.00	9.48
		----------	True	Calc.	% Drift	----------		
70	t	4,6-Dinitro-2-methylpheno	50.000	46.168	7.7	66	0.00	8.51
		----------	True	Calc.	% Drift	----------		
76	t	Pentachlorophenol	50.000	46.485	7.0	60	0.00	9.27

(#) = Out of Range SPCC's out = 0 CCC's out = 0
5p29357a.D M5P1496.M Sun Jul 03 16:07:28 2016 RPT1

Initial Calibration Verification

Job Number: JC24133 **Sample:** E5P1497-ICV1496
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 5P29345.D
Project: BMSMC, Building 5 Area, PR

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\DATA\E5P1497\5p29345.D          Vial: 11
Acq On    :  1 Jul 2016   8:52 pm                    Operator: ashleyn
Sample    : icv1496-50                               Inst    : MS5P
Misc      : op94797,e5p1497                          Multiplr: 1.00
MS Integration Params: lscint.p

Method       : C:\MSDCHEM\1\METHODS\M5P1496.M (RTE Integrator)
Title        : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
Last Update  : Sun Jul 03 15:53:32 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	89	0.00	5.00
3	t	Pyridine	1.299	1.303	-0.3	88	0.11	2.82
10		Aniline	1.916	2.076	-8.4	101	0.00	4.71
16	t	Benzyl alcohol	0.828	0.911	-10.0	96	0.00	5.13
24	I	Naphthalene-d8	1.000	1.000	0.0	89	0.00	6.21
39	t	4-Chloroaniline	0.392	0.427	-8.9	98	0.00	6.28
44	t	2-Methylnaphthalene	0.528	0.556	-5.3	94	0.00	6.90
47	I	Acenaphthene-d10	1.000	1.000	0.0	79	0.00	7.93
54	t	2-Nitroaniline	0.247	0.273	-10.5	99	0.00	7.48
58	t	3-Nitroaniline	0.279	0.317	-13.6	85	0.00	7.88
62	t	Dibenzofuran	1.293	1.546	-19.6	97	0.00	8.12
68	t	4-Nitroaniline	0.282	0.299	-6.0	81	0.00	8.49
69	I	Phenanthrene-d10	1.000	1.000	0.0	75	0.00	9.48
79	t	Carbazole	0.899	0.980	-9.0	83	0.00	9.76

```
(#) = Out of Range              SPCC's out = 0  CCC's out = 0
 5p29357a.D M5P1496.M        Sun Jul 03 16:07:30 2016   RPT1
```

Initial Calibration Verification

Job Number: JC24133 **Sample:** E5P1497-ICV1496
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 5P29346.D
Project: BMSMC, Building 5 Area, PR

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\DATA\E5P1497\5p29346.D          Vial: 12
Acq On    :  1 Jul 2016   9:18 pm                    Operator: ashleyn
Sample    : icv1496-50                               Inst    : MS5P
Misc      : op94797,e5p1497                          Multiplr: 1.00
MS Integration Params: lscint.p

Method       : C:\MSDCHEM\1\METHODS\M5P1496.M (RTE Integrator)
Title        : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
Last Update  : Sun Jul 03 15:53:32 2016
Response via : Multiple Level Calibration

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

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	102	0.00	5.00
5	S	2-Fluorophenol	1.218	1.294	-6.2	105	0.00	3.84
8	S	Phenol-d5	1.479	1.514	-2.4	102	0.00	4.66
24	I	Naphthalene-d8	1.000	1.000	0.0	93	0.00	6.21
25	S	Nitrobenzene-d5	0.291	0.323	-11.0	103	0.00	5.52
47	I	Acenaphthene-d10	1.000	1.000	0.0	80	0.00	7.93
51	S	2-Fluorobiphenyl	1.070	1.320	-23.4	107	0.00	7.26
69	I	Phenanthrene-d10	1.000	1.000	0.0	71	0.00	9.48
73	S	2,4,6-Tribromophenol	0.085	0.098	-15.3	79	0.00	8.72
83	I	Chrysene-d12	1.000	1.000	0.0	71	0.00	13.07
85	S	Terphenyl-d14	0.762	0.854	-12.1	82	0.00	11.55

```
(#) = Out of Range              SPCC's out = 0  CCC's out = 0
 5p29357a.D M5P1496.M        Sun Jul 03 16:07:32 2016   RPT1
```

Initial Calibration Verification

Job Number: JC24133 **Sample:** E5P1497-ICV1496
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 5P29347.D
Project: BMSMC, Building 5 Area, PR

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\E5P1497\5p29347.D Vial: 13
Acq On : 1 Jul 2016 9:43 pm Operator: ashleyn
Sample : icv1496-50 Inst : MS5P
Misc : op94797,e5p1497 Multiplr: 1.00
MS Integration Params: lscint.p

Method : C:\MSDCHEM\1\METHODS\M5P1496.M (RTE Integrator)
Title : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
Last Update : Wed Jul 06 11:05:07 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	97	0.00	5.00
4	t	N-Nitrosodimethylamine	0.731	0.697	4.7	90	0.00	2.69
11	t	bis(2-Chloroethyl)ether	1.155	1.247	-8.0	106	0.00	4.75
14	t	1,3-Dichlorobenzene	1.559	1.599	-2.6	104	0.00	4.96
15	t	1,4-Dichlorobenzene	1.522	1.543	-1.4	102	0.00	5.02
17	t	1,2-Dichlorobenzene	1.439	1.494	-3.8	105	0.00	5.16
20	t	2,2'-oxybis(1-Chloropropa	1.531	1.475	3.7	101	0.00	5.25
22	t	n-Nitroso-di-n-propylamin	0.784	0.757	3.4	101	0.00	5.37
23	t	Hexachloroethane	0.461	0.479	-3.9	103	0.00	5.49
24	I	Naphthalene-d8	1.000	1.000	0.0	87	0.00	6.21
26	t	Nitrobenzene	0.300	0.317	-5.7	94	0.00	5.54
28	t	Isophorone	0.531	0.589	-10.9	95	0.00	5.76
32	t	bis(2-Chloroethoxy)methan	0.340	0.381	-12.1	99	0.00	5.97
36	t	1,2,4-Trichlorobenzene	0.283	0.319	-12.7	100	0.00	6.16
38	t	Naphthalene	0.940	1.016	-8.1	97	0.00	6.23
42	t	Hexachlorobutadiene	0.145	0.166	-14.5	102	0.00	6.36
47	I	Acenaphthene-d10	1.000	1.000	0.0	74	0.00	7.93
48	t	Hexachlorocyclopentadiene	0.238	0.248	-4.2	76	0.00	7.07
52	t	2-Chloronaphthalene	0.964	1.162	-20.5	97	0.00	7.38
55	t	Dimethylphthalate	1.003	1.190	-18.6	98	0.00	7.65
56	t	Acenaphthylene	1.529	1.797	-17.5	87	0.00	7.79
57	t	2,6-Dinitrotoluene	0.223	0.266	-19.3	87	0.00	7.71
59	t	Acenaphthene	0.942	1.110	-17.8	91	0.00	7.96
63	t	2,4-Dinitrotoluene	0.307	0.331	-7.8	75	0.00	8.11
65	t	Diethylphthalate	1.001	1.152	-15.1	85	0.00	8.35
66	t	Fluorene	1.033	1.159	-12.2	88	0.00	8.47
67	t	4-Chlorophenyl-phenylethe	0.443	0.520	-17.4	91	0.00	8.47
69	I	Phenanthrene-d10	1.000	1.000	0.0	67	-0.02	9.48
71	t	n-Nitrosodiphenylamine	0.436	0.562	-28.9	87	0.00	8.58
72	t	1,2-Diphenylhydrazine	0.565	0.706	-25.0	84	0.00	8.63
75	t	Hexachlorobenzene	0.190	0.234	-23.2	83	0.00	9.06
77	t	Phenanthrene	0.896	1.063	-18.6	82	0.00	9.51
78	t	Anthracene	0.924	1.059	-14.6	79	0.00	9.57
80	t	Di-n-butylphthalate	1.087	1.309	-20.4	80	0.00	10.20
81	t	Fluoranthene	0.953	1.123	-17.8	80	0.00	11.01
83	I	Chrysene-d12	1.000	1.000	0.0	69	-0.05	13.08
84	t	Pyrene	1.177	1.322	-12.3	79	-0.04	11.32
86	t	Butylbenzylphthalate	0.571	0.628	-10.0	75	-0.04	12.28

Initial Calibration Verification

Job Number: JC24133 **Sample:** E5P1497-ICV1496
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 5P29347.D
Project: BMSMC, Building 5 Area, PR

87	t	Benzo[a]anthracene	1.085	1.128	-4.0	76	-0.05	13.06
89	t	Chrysene	1.056	1.093	-3.5	74	-0.05	13.11
90	t	bis(2-Ethylhexyl)phthalat	0.771	0.838	-8.7	75	-0.05	13.17
91	I	Perylene-d12	1.000	1.000	0.0	68	-0.08	15.13
92	t	Di-n-octylphthalate	1.453	1.539	-5.9	73	-0.07	14.13
93	t	Benzo[b]fluoranthene	1.182	1.180	0.2	72	-0.07	14.61
94	t	Benzo[k]fluoranthene	1.129	1.150	-1.9	74	-0.07	14.65
95	t	Benzo[a]pyrene	1.069	1.097	-2.6	72	-0.07	15.05
96	t	Indeno[1,2,3-cd]pyrene	1.021	1.088	-6.6	71	-0.07	16.84
98	t	Dibenz[a,h]anthracene	1.072	1.056	1.5	69	-0.07	16.87
100	t	Benzo[g,h,i]perylene	1.075	1.056	1.8	69	-0.07	17.33

(#) = Out of Range SPCC's out = 0 CCC's out = 0
5p29357a.D M5P1496.M Wed Jul 06 12:27:05 2016 RPT1

Initial Calibration Verification

Job Number: JC24133 **Sample:** E5P1497-ICV1497
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 5P29347A.D
Project: BMSMC, Building 5 Area, PR

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\E5P1497\5p29347a.D Vial: 13
Acq On : 1 Jul 2016 9:43 pm Operator: ashleyn
Sample : icv1497-50 Inst : MS5P
Misc : op94797,e5p1497 Multiplr: 1.00
MS Integration Params: lscint.p

Method : C:\MSDCHEM\1\METHODS\M5P1496.M (RTE Integrator)
Title : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
Last Update : Sun Jul 03 15:53:32 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	106	0.00	7.93
104	1,2,4,5-Tetrachlorobenzen	0.501	0.528	-5.4	123	0.00	7.07

(#) = Out of Range SPCC's out = 0 CCC's out = 0
5p29357a.D M5P1496.M Sun Jul 03 16:07:36 2016 RPT1

Initial Calibration Verification

Job Number: JC24133 **Sample:** E5P1497-ICV1496
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 5P29348.D
Project: BMSMC, Building 5 Area, PR

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\E5P1497\5p29348.D Vial: 14
Acq On : 1 Jul 2016 10:09 pm Operator: ashleyn
Sample : icv1496-50 Inst : MS5P
Misc : op94797,e5p1497 Multiplr: 1.00
MS Integration Params: lscint.p

Method : C:\MSDCHEM\1\METHODS\M5P1496.M (RTE Integrator)
Title : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
Last Update : Sun Jul 03 15:53:32 2016
Response via : Multiple Level Calibration

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

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	98	0.00	5.00
2	t	1,4-Dioxane	0.544	0.544	0.0	116	0.01	2.44
6	t	Indene	2.286	2.650	-15.9	122	0.00	5.24
7	t	Cumene	3.168	3.348	-5.7	107	0.00	4.29
13	t	Decane	1.222	1.286	-5.2	111	0.00	4.85
18	t	Acetophenone	1.744	1.904	-9.2	115	0.00	5.37
24	I	Naphthalene-d8	1.000	1.000	0.0	90	0.00	6.21
27	t	Quinoline	0.663	0.544	17.9	73	0.00	6.55
40	t	2,3-Dichloroaniline	0.326	0.270	17.2	76	0.00	7.18
41	t	Caprolactam	0.129	0.128	0.8	88	0.00	6.60
45	t	1-Methylnaphthalene	0.567	0.634	-11.8	103	0.00	7.00
46	t	Dimethylnaphthalene	0.559	0.636	-13.8	113	0.00	7.52
47	I	Acenaphthene-d10	1.000	1.000	0.0	78	0.00	7.93
53	t	Biphenyl	1.303	1.594	-22.3	102	0.00	7.36
69	I	Phenanthrene-d10	1.000	1.000	0.0	72	0.00	9.48
82	t	Octadecane	0.383	0.517	-35.0#	99	0.00	9.36
83	I	Chrysene-d12	1.000	1.000	0.0	75	0.00	13.07
91	I	Perylene-d12	1.000	1.000	0.0	61	0.00	15.13
99	t	7,12-Dimethylbenz(a)anthr	0.544	0.689	-26.7	81	0.00	14.61

(#) = Out of Range SPCC's out = 0 CCC's out = 0
5p29357a.D M5P1496.M Sun Jul 03 16:07:38 2016 RPT1

Initial Calibration Verification

Job Number: JC24133
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR
Sample: E5P1497-ICV1497
Lab FileID: 5P29348A.D

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\DATA\E5P1497\5p29348a.D        Vial: 14
Acq On    :  1 Jul 2016  10:09 pm                   Operator: ashleyn
Sample    : icv1497-50                              Inst    : MS5P
Misc      : op94797,e5p1497                         Multiplr: 1.00
MS Integration Params: lscint.p

Method       : C:\MSDCHEM\1\METHODS\M5P1496.M (RTE Integrator)
Title        : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
Last Update  : Sun Jul 03 15:53:32 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	121	0.00	5.00
102	Benzaldehyde	1.028	1.205	-17.2	150	0.00	4.60

(#) = Out of Range SPCC's out = 0 CCC's out = 0
5p29357a.D M5P1496.M Sun Jul 03 16:07:40 2016 RPT1

Initial Calibration Verification

Job Number: JC24133 **Sample:** E5P1497-ICV1497
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 5P29349A.D
Project: BMSMC, Building 5 Area, PR

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\DATA\E5P1497\5p29349a.D        Vial: 15
Acq On    :  1 Jul 2016  10:34 pm                   Operator: ashleyn
Sample    : icv1497-50                              Inst    : MS5P
Misc      : op94797,e5p1497                         Multiplr: 1.00
MS Integration Params: lscint.p

Method       : C:\MSDCHEM\1\METHODS\M5P1496.M (RTE Integrator)
Title        : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
Last Update  : Sun Jul 03 15:53:32 2016
Response via : Multiple Level Calibration

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

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
105	Chrysene-d12a	1.000	1.000	0.0	112	0.00	13.07
106	Benzidine	0.503	0.634	-26.0	152	0.00	11.20

(#) = Out of Range SPCC's out = 0 CCC's out = 0
5p29357a.D M5P1496.M Sun Jul 03 16:07:44 2016 RPT1

Initial Calibration Verification

Job Number: JC24133 **Sample:** E5P1497-ICV1496
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 5P29349.D
Project: BMSMC, Building 5 Area, PR

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\DATA\E5P1497\5p29349.D          Vial: 15
Acq On    :  1 Jul 2016  10:34 pm                    Operator: ashleyn
Sample    : icv1496-50                               Inst    : MS5P
Misc      : op94797,e5p1497                          Multiplr: 1.00
MS Integration Params: lscint.p

Method       : C:\MSDCHEM\1\METHODS\M5P1496.M (RTE Integrator)
Title        : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
Last Update  : Sun Jul 03 15:53:32 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	90	0.00	13.07
88	t	3,3'-Dichlorobenzidine	0.413	0.397	3.9	88	0.00	13.04

(#) = Out of Range SPCC's out = 0 CCC's out = 0
5p29357a.D M5P1496.M Sun Jul 03 16:07:42 2016 RPT1

Initial Calibration Verification

Job Number: JC24133
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR
Sample: E5P1497-ICV1497
Lab FileID: 5P29350.D

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\DATA\E5P1497\5p29350.D          Vial: 16
Acq On    :  1 Jul 2016  11:00 pm                    Operator: ashleyn
Sample    : icv1497-50                               Inst    : MS5P
Misc      : op94797,e5p1497                          Multiplr: 1.00
MS Integration Params: lscint.p

Method       : C:\MSDCHEM\1\METHODS\M5P1496.M (RTE Integrator)
Title        : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
Last Update  : Sun Jul 03 15:53:32 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 I	Naphthalene-d8a	1.000	1.000	0.0	104	0.00	6.21
112	Hydroquinone	0.310	0.316	-1.9	94	-0.05	6.60

(#) = Out of Range SPCC's out = 0 CCC's out = 0
5p29357a.D M5P1496.M Sun Jul 03 16:07:46 2016 RPT1

Initial Calibration Verification

Job Number: JC24133 **Sample:** E5P1500-ICV1496
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 5P29399.D
Project: BMSMC, Building 5 Area, PR

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\DATA\E5P1500\5p29399.D          Vial: 2
Acq On    :  5 Jul 2016   9:26 am                    Operator: ashleyd
Sample    : icv1496-50                               Inst    : MS5P
Misc      : op94797,e5p1500                          Multiplr: 1.00
MS Integration Params: lscint.p

Method       : C:\MSDCHEM\1\METHODS\M5P1496.M (RTE Integrator)
Title        : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
Last Update  : Wed Jul 06 11:05:07 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.
69	I	Phenanthrene-d10	1.000	1.000	0.0	62	-0.02	9.48
74	t	4-Bromophenyl-phenylether	0.176	0.187	-6.3	66	-0.01	8.98

(#) = Out of Range SPCC's out = 0 CCC's out = 0
5p29357a.D M5P1496.M Wed Jul 06 12:26:20 2016 RPT1

Initial Calibration Verification

Job Number: JC24133 **Sample:** E5P1500-ICV1497
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 5P29400.D
Project: BMSMC, Building 5 Area, PR

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\DATA\E5P1500\5p29400.D          Vial: 3
Acq On    :  5 Jul 2016   9:51 am                    Operator: ashleyd
Sample    : icv1497-50                               Inst    : MS5P
Misc      : op94797,e5p1500                          Multiplr: 1.00
MS Integration Params: lscint.p

Method       : C:\MSDCHEM\1\METHODS\M5P1496.M (RTE Integrator)
Title        : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
Last Update  : Wed Jul 06 11:05:07 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.
108	Phenanthrene-d10a	1.000	1.000	0.0	102	-0.02	9.48
110	Atrazine	0.107	0.105	1.9	111	-0.01	9.16

(#) = Out of Range SPCC's out = 0 CCC's out = 0
5p29357a.D M5P1496.M Wed Jul 06 12:26:22 2016 RPT1

Continuing Calibration Summary

Job Number: JC24133 **Sample:** E5P1518-CC1496
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 5P29754.D
Project: BMSMC, Building 5 Area, PR

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\DATA\E5P1518\5p29754.D          Vial: 2
Acq On    : 18 Jul 2016   9:34 am                    Operator: ashleyn
Sample    : cc1496-50                                Inst    : MS5P
Misc      : op94707a,e5p1518                         Multiplr: 1.00
MS Integration Params: lscint.p

Method       : C:\MSDCHEM\1\METHODS\M5P1496.M (RTE Integrator)
Title        : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
Last Update  : Fri Jul 15 20:51:24 2016
Response via : Multiple Level Calibration

Min. RRF     :   0.050  Min. Rel. Area :  50%  Max. R.T. Dev  0.50min
Max. RRF Dev :  20%     Max. Rel. Area : 200%
```

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	74	-0.01	4.88
2	t	1,4-Dioxane	0.544	0.436	19.9	70	-0.07	2.30
3	t	Pyridine	1.299	1.026	21.0#	57	-0.04	2.62
4	t	N-Nitrosodimethylamine	0.731	0.565	22.7#	56	-0.06	2.56
5	S	2-Fluorophenol	1.218	1.123	7.8	66	0.00	3.75
6	t	Indene	2.286	2.241	2.0	77	-0.01	5.12
7	t	Cumene	3.168	2.828	10.7	68	-0.04	4.15
8	S	Phenol-d5	1.479	1.317	11.0	64	0.04	4.59
9	t	Phenol	1.777	1.570	11.6	65	0.04	4.61
10		Aniline	1.916	0.743	61.2#	30#	0.00	4.60
11	t	bis(2-Chloroethyl)ether	1.155	1.135	1.7	74	-0.01	4.64
12	t	2-Chlorophenol	1.424	1.377	3.3	73	0.00	4.71
13	t	Decane	1.222	0.900	26.4#	58	-0.02	4.73
14	t	1,3-Dichlorobenzene	1.559	1.477	5.3	73	-0.02	4.83
15	t	1,4-Dichlorobenzene	1.522	1.460	4.1	73	-0.01	4.90
16	t	Benzyl alcohol	0.828	0.702	15.2	61	0.01	5.03
17	t	1,2-Dichlorobenzene	1.439	1.355	5.8	73	-0.01	5.04
18	t	Acetophenone	1.744	1.583	9.2	72	0.00	5.26
19	t	2-Methylphenol	1.167	1.026	12.1	67	0.04	5.15
20	t	2,2'-oxybis(1-Chloropropa	1.531	1.192	22.1#	62	0.00	5.13
21	t	3&4-Methylphenol	1.235	1.149	7.0	73	0.05	5.30
22	t	n-Nitroso-di-n-propylamin	0.784	0.644	17.9	65	0.01	5.27
23	t	Hexachloroethane	0.461	0.393	14.8	64	-0.01	5.35
24	I	Naphthalene-d8	1.000	1.000	0.0	76	-0.01	6.09
25	S	Nitrobenzene-d5	0.291	0.251	13.7	65	-0.01	5.40
26	t	Nitrobenzene	0.300	0.254	15.3	65	-0.02	5.42
27	t	Quinoline	0.663	0.660	0.5	75	0.01	6.44
28	t	Isophorone	0.531	0.450	15.3	63	0.00	5.65
29	t	2-Nitrophenol	0.188	0.193	-2.7	75	-0.01	5.73
30	t	2,4-Dimethylphenol	0.318	0.271	14.8	66	0.02	5.79
		----------	True	Calc.	% Drift	----------		
31	t	Benzoic acid	50.000	45.790	8.4	65	0.08	5.93
		----------	AvgRF	CCRF	% Dev	----------		
32	t	bis(2-Chloroethoxy)methan	0.340	0.296	12.9	67	0.00	5.85
33	t	2,4-Dichlorophenol	0.278	0.261	6.1	70	0.02	5.98
34	t	2,6-Dichlorophenol	0.273	0.245	10.3	70	0.00	6.18
35		1,3,5-Trichlorobenzene	0.300	0.265	11.7	70	-0.02	5.73
36	t	1,2,4-Trichlorobenzene	0.283	0.254	10.2	69	-0.01	6.04
37		1,2,3-Trichlorobenzene	0.276	0.252	8.7	71	0.00	6.25

Continuing Calibration Summary

Job Number: JC24133 **Sample:** E5P1518-CC1496
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 5P29754.D
Project: BMSMC, Building 5 Area, PR

38	t	Naphthalene	0.940	0.896	4.7	74	-0.01	6.11
39	t	4-Chloroaniline	0.392	0.298	24.0#	58	0.00	6.17
40	t	2,3-Dichloroaniline	0.326	0.298	8.6	71	0.02	7.07
41	t	Caprolactam	0.129	0.113	12.4	66	0.06	6.54
42	t	Hexachlorobutadiene	0.145	0.117	19.3	62	-0.01	6.23
43	t	4-Chloro-3-methylphenol	0.274	0.258	5.8	70	0.05	6.68
44	t	2-Methylnaphthalene	0.528	0.524	0.8	75	0.00	6.78
45	t	1-Methylnaphthalene	0.567	0.550	3.0	75	0.00	6.87
46	t	Dimethylnaphthalene	0.559	0.559	0.0	84	0.02	7.39
47	I	Acenaphthene-d10	1.000	1.000	0.0	72	-0.01	7.80
48	t	Hexachlorocyclopentadiene	0.238	0.202	15.1	61	-0.03	6.94
49	t	2,4,6-Trichlorophenol	0.298	0.274	8.1	71	0.00	7.08
50	t	2,4,5-Trichlorophenol	0.308	0.275	10.7	66	0.00	7.13
51	S	2-Fluorobiphenyl	1.070	0.980	8.4	72	-0.02	7.14
52	t	2-Chloronaphthalene	0.964	0.883	8.4	72	-0.01	7.26
53	t	Biphenyl	1.303	1.288	1.2	77	-0.01	7.24
54	t	2-Nitroaniline	0.247	0.235	4.9	78	0.00	7.37
55	t	Dimethylphthalate	1.003	1.001	0.2	81	0.00	7.54
56	t	Acenaphthylene	1.529	1.602	-4.8	76	0.00	7.66
57	t	2,6-Dinitrotoluene	0.223	0.240	-7.6	77	0.00	7.61
58	t	3-Nitroaniline	0.279	0.287	-2.9	70	0.02	7.78
59	t	Acenaphthene	0.942	0.956	-1.5	77	0.00	7.84
		----------	True	Calc.	% Drift	----------		
60	t	2,4-Dinitrophenol	100.000	116.938	-16.9	81	0.02	7.88
		----------	AvgRF	CCRF	% Dev	----------		
61	t	4-Nitrophenol	0.116	0.127	-9.5	73	0.07	8.00
62	t	Dibenzofuran	1.293	1.245	3.7	72	0.00	8.01
63	t	2,4-Dinitrotoluene	0.307	0.321	-4.6	71	0.02	8.01
64		2,3,4,6-Tetrachlorophenol	0.231	0.226	2.2	63	0.00	8.15
65	t	Diethylphthalate	1.001	1.084	-8.3	78	0.00	8.23
66	t	Fluorene	1.033	1.029	0.4	76	0.00	8.34
67	t	4-Chlorophenyl-phenylethe	0.443	0.423	4.5	72	0.00	8.34
68	t	4-Nitroaniline	0.282	0.286	-1.4	71	0.03	8.39
69	I	Phenanthrene-d10	1.000	1.000	0.0	75	-0.02	9.35
		----------	True	Calc.	% Drift	----------		
70	t	4,6-Dinitro-2-methylpheno	50.000	53.419	-6.8	76	0.01	8.42
		----------	AvgRF	CCRF	% Dev	----------		
71	t	n-Nitrosodiphenylamine	0.436	0.425	2.5	73	0.00	8.47
72	t	1,2-Diphenylhydrazine	0.565	0.504	10.8	67	-0.01	8.50
73	S	2,4,6-Tribromophenol	0.085	0.077	9.4	65	0.00	8.60
74	t	4-Bromophenyl-phenylether	0.176	0.153	13.1	65	-0.02	8.85
75	t	Hexachlorobenzene	0.190	0.164	13.7	65	-0.01	8.93
		----------	True	Calc.	% Drift	----------		
76	t	Pentachlorophenol	100.000	103.231	-3.2	73	0.00	9.16
		----------	AvgRF	CCRF	% Dev	----------		
77	t	Phenanthrene	0.896	0.844	5.8	73	-0.01	9.37
78	t	Anthracene	0.924	0.857	7.3	72	0.00	9.43
79	t	Carbazole	0.899	0.848	5.7	71	0.00	9.64
80	t	Di-n-butylphthalate	1.087	1.108	-1.9	76	0.00	10.05
81	t	Fluoranthene	0.953	0.823	13.6	66	0.00	10.86
82	t	Octadecane	0.383	0.325	15.1	65	-0.02	9.22

Continuing Calibration Summary

Job Number: JC24133 **Sample:** E5P1518-CC1496
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 5P29754.D
Project: BMSMC, Building 5 Area, PR

83	I	Chrysene-d12	1.000	1.000	0.0	63	-0.02	12.93
84	t	Pyrene	1.177	1.209	-2.7	66	-0.03	11.17
85	S	Terphenyl-d14	0.762	0.725	4.9	61	-0.03	11.40
86	t	Butylbenzylphthalate	0.571	0.689	-20.7#	75	-0.03	12.13
87	t	Benzo[a]anthracene	1.085	1.041	4.1	64	-0.02	12.91
88	t	3,3'-Dichlorobenzidine	0.413	0.371	10.2	57	-0.01	12.90
89	t	Chrysene	1.056	1.003	5.0	62	-0.01	12.97
90	t	bis(2-Ethylhexyl)phthalat	0.771	0.935	-21.3#	76	-0.03	13.01
91	I	Perylene-d12	1.000	1.000	0.0	62	-0.03	14.98
92	t	Di-n-octylphthalate	1.453	1.771	-21.9#	76	-0.04	13.97
93	t	Benzo[b]fluoranthene	1.182	1.167	1.3	65	0.00	14.48
94	t	Benzo[k]fluoranthene	1.129	1.039	8.0	61	0.00	14.51
95	t	Benzo[a]pyrene	1.069	1.019	4.7	61	-0.01	14.91
96	t	Indeno[1,2,3-cd]pyrene	1.021	1.187	-16.3	70	-0.04	16.64
97	t	Dibenz(a,h)acridine	0.963	0.922	4.3	60	-0.05	16.24
98	t	Dibenz[a,h]anthracene	1.072	1.025	4.4	61	-0.05	16.67
99	t	7,12-Dimethylbenz(a)anthr	0.544	0.516	5.1	62	-0.02	14.47
100	t	Benzo[g,h,i]perylene	1.075	1.019	5.2	60	-0.05	17.12

(#) = Out of Range SPCC's out = 0 CCC's out = 0
5p29357a.D M5P1496.M Mon Jul 18 12:47:04 2016 RPT1

Continuing Calibration Summary

Job Number: JC24133 **Sample:** E5P1518-CC1497
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 5P29755.D
Project: BMSMC, Building 5 Area, PR

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\DATA\E5P1518\5p29755.D          Vial: 3
Acq On    : 18 Jul 2016  10:01 am                    Operator: ashleyn
Sample    : cc1497-50                                Inst    : MS5P
Misc      : op94707a,e5p1518                         Multiplr: 1.00
MS Integration Params: lscint.p

Method       : C:\MSDCHEM\1\METHODS\M5P1496.M (RTE Integrator)
Title        : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
Last Update  : Fri Jul 15 20:51:24 2016
Response via : Multiple Level Calibration

Min. RRF     :   0.050  Min. Rel. Area :  50%  Max. R.T. Dev  0.50min
Max. RRF Dev :  20%     Max. Rel. Area : 200%
```

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
101		1,4-Dichlorobenzene-d4a	1.000	1.000	0.0	76	-0.02	4.88
102		Benzaldehyde	1.028	0.932	9.3	73	-0.02	4.48
103		Acenaphthene-d10a	1.000	1.000	0.0	75	-0.02	7.80
104		1,2,4,5-Tetrachlorobenzen	0.501	0.463	7.6	76	-0.02	6.94
105		Chrysene-d12a	1.000	1.000	0.0	62	-0.03	12.92
106		Benzidine	0.503	0.479	4.8	64	-0.03	11.05
107		Phenanthrene-d10a	1.000	1.000	0.0	82	-0.02	9.34
108		Atrazine	0.107	0.093	13.1	79	0.00	9.04
109	I	Naphthalene-d8a	1.000	1.000	0.0	75	-0.02	6.08
110		Hydroquinone	0.310	0.344	-11.0	74	0.07	6.54

(#) = Out of Range SPCC's out = 0 CCC's out = 0
5p29357a.D M5P1496.M Mon Jul 18 12:47:06 2016 RPT1

GC/MS Semi-volatiles

Raw Data

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2979\
Data File : 3m62996.D
Acq On : 16 Jul 2016 12:53 am
Operator : juliusj
Sample : jc24133-1
Misc : op95600a,e3m2979,900
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jul 18 14:25:23 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	10.199	150	210812	4.00	ppm	-0.10
14) Fluorene-d10	13.181	176	310927	4.00	ppm	-0.09
21) Fluoranthene-d10	17.386	212	496873	4.00	ppm	-0.09
31) Benzo(a)pyrene-d12	21.995	264	392211	4.00	ppm	-0.08
System Monitoring Compounds						
3) 2-Fluorophenol	4.229	112	924529	31.51	ppm	-0.08
Spiked Amount 50.000			Recovery = 63.02%			
4) Phenol-d5	5.831	99	917364	21.14	ppm	-0.08
Spiked Amount 50.000			Recovery = 42.28%			
7) Nitrobenzene-d5	7.335	82	2077295	50.98	ppm	-0.09
Spiked Amount 50.000			Recovery = 101.96%			
15) 2-Fluorobiphenyl	10.876	172	4281019	50.73	ppm	-0.10
Spiked Amount 50.000			Recovery = 101.46%			
20) 2,4,6-Tribromophenol	13.727	330	630053	48.43	ppm	-0.11
Spiked Amount 50.000			Recovery = 96.86%			
28) Terphenyl-d14	18.221	244	3741847	49.35	ppm	-0.09
Spiked Amount 50.000			Recovery = 98.70%			
Target Compounds						Qvalue
2) 1,4-dioxane	2.020	88	1214250	104.73	ppm	# 55

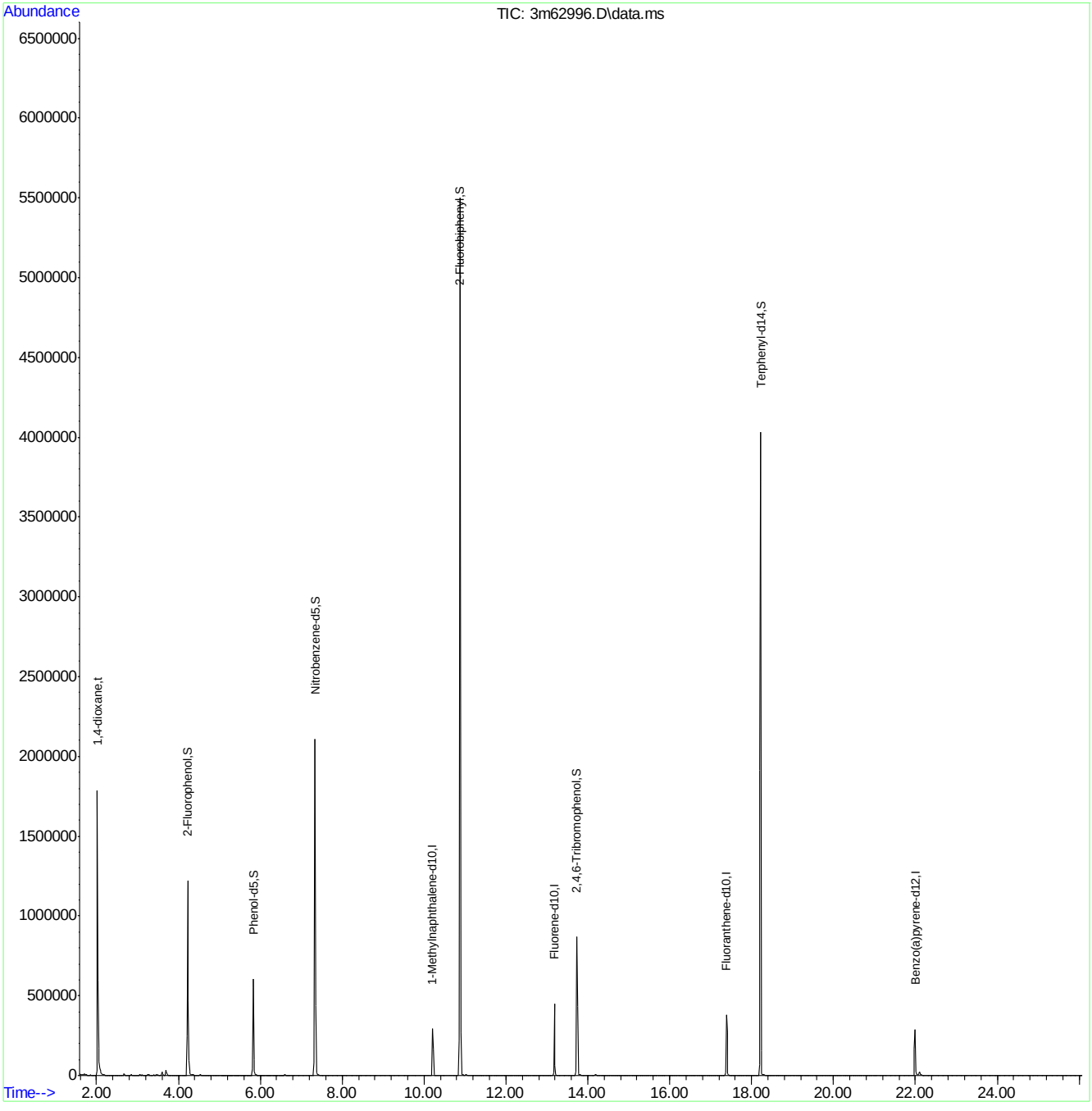
(#) = qualifier out of range (m) = manual integration (+) = signals summed

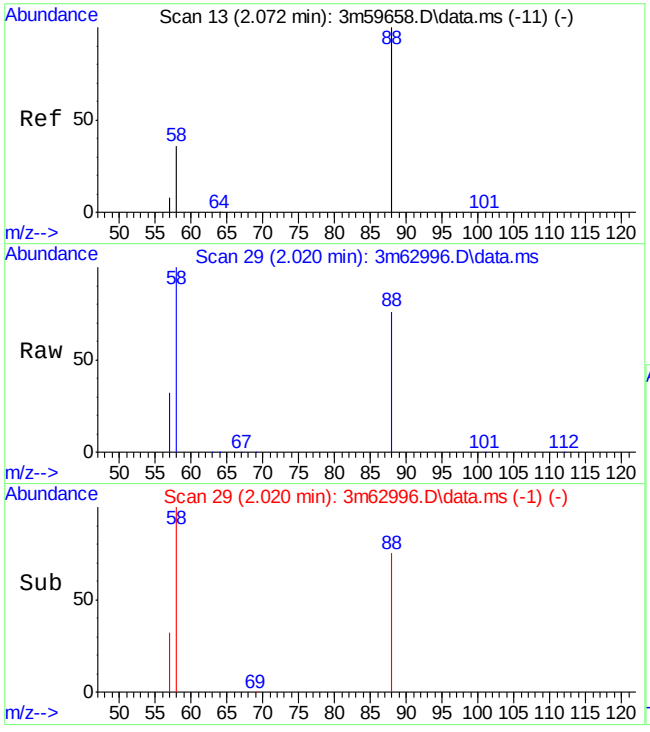
SGS ACCUTEST JC24133

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2979\
Data File : 3m62996.D
Acq On : 16 Jul 2016 12:53 am
Operator : juliusj
Sample : jc24133-1
Misc : op95600a,e3m2979,900
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jul 18 14:25:23 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

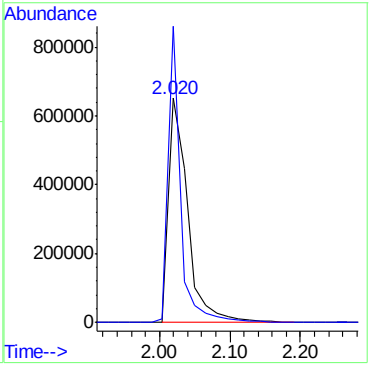




#2
1,4-dioxane
Concen: 104.73 ppm
RT: 2.020 min Scan# 29
Delta R.T. -0.062 min
Lab File: 3m62996.D
Acq: 16 Jul 2016 12:53 am

Tgt Ion: 88 Resp: 1214250

Ion	Ratio	Lower	Upper
88	100		
58	131.3	69.2	109.2#



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E5P1518\
Data File : 5p29770.D
Acq On : 18 Jul 16 3:30 pm
Operator : ashleyn
Sample : jc24133-1
Misc : op95600a,e5p1518,900,,,1,1
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Jul 18 16:10:10 2016
Quant Method : C:\MSDCHEM\1\METHODS\M5P1496.M
Quant Title : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
QLast Update : Mon Jul 18 13:05:21 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1,4-Dichlorobenzene-d4	4.881	152	232265	40.00 ppm	-0.01
24) Naphthalene-d8	6.089	136	892333	40.00 ppm	-0.01
47) Acenaphthene-d10	7.804	164	457138	40.00 ppm	-0.01
69) Phenanthrene-d10	9.353	188	698540	40.00 ppm	-0.01
83) Chrysene-d12	12.932	240	548624	40.00 ppm	-0.02
91) Perylene-d12	15.000	264	537445	40.00 ppm	-0.01
101) 1,4-Dichlorobenzene-d4a	4.881	152	232265	40.00 ppm	-0.01
103) Acenaphthene-d10a	7.804	164	457138	40.00 ppm	-0.01
105) Chrysene-d12a	12.932	240	548876	40.00 ppm	-0.02
107) Phenanthrene-d10a	9.353	188	698540	40.00 ppm	-0.01
109) Naphthalene-d8a	6.089	136	892333	40.00 ppm	-0.01
System Monitoring Compounds					
5) 2-Fluorophenol	3.754	112	174554	24.69 ppm	0.00
Spiked Amount 50.000			Recovery	= 49.38%	
8) Phenol-d5	4.598	99	147876	17.22 ppm	0.04
Spiked Amount 50.000			Recovery	= 34.44%	
25) Nitrobenzene-d5	5.405	82	285956	44.04 ppm	-0.01
Spiked Amount 50.000			Recovery	= 88.08%	
51) 2-Fluorobiphenyl	7.141	172	655889	53.62 ppm	-0.01
Spiked Amount 50.000			Recovery	= 107.24%	
73) 2,4,6-Tribromophenol	8.600	330	74150	49.91 ppm	0.00
Spiked Amount 50.000			Recovery	= 99.82%	
85) Terphenyl-d14	11.404	244	479208	45.84 ppm	-0.03
Spiked Amount 50.000			Recovery	= 91.68%	
Target Compounds					Qvalue
2) 1,4-Dioxane	2.301	88	277488	87.80 ppm	94

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

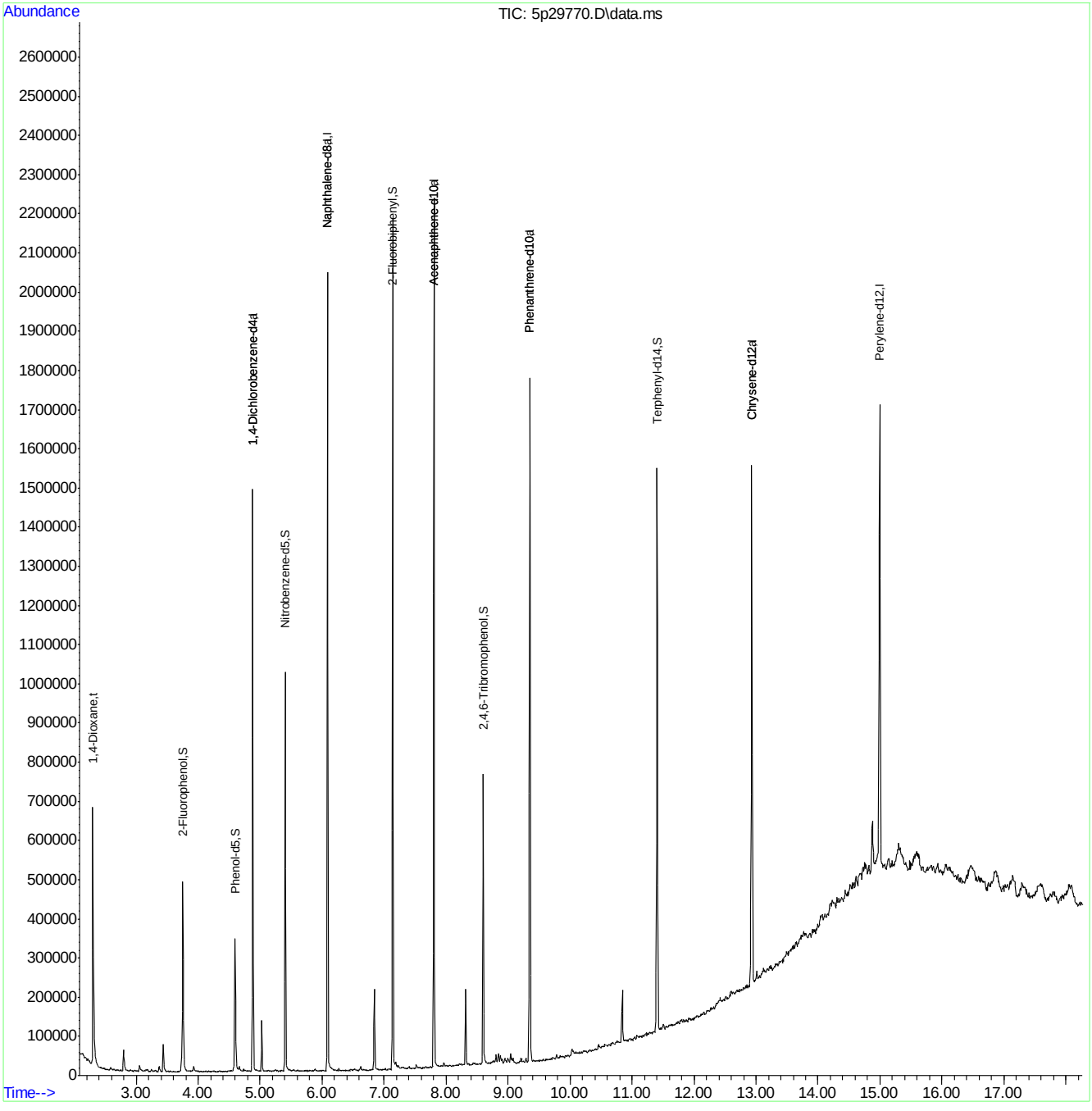
7.1.2

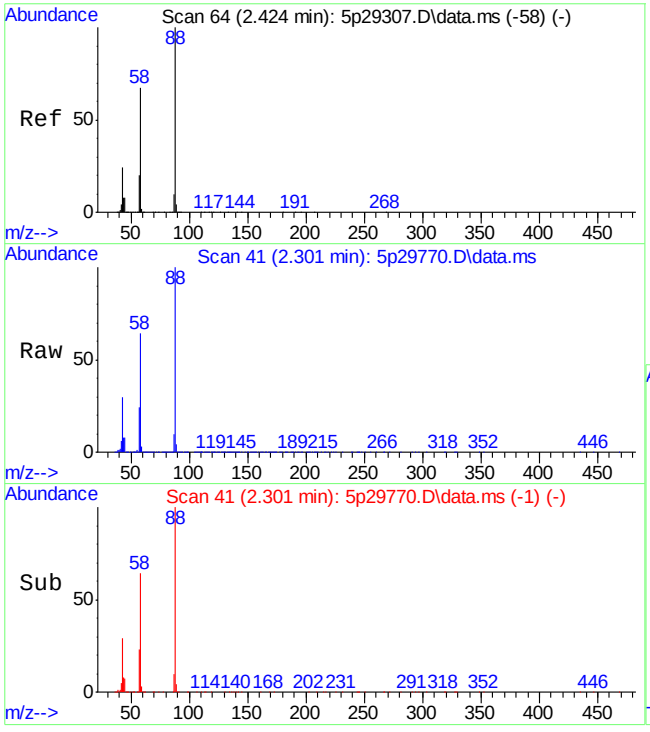
7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E5P1518\
Data File : 5p29770.D
Acq On : 18 Jul 16 3:30 pm
Operator : ashleyn
Sample : jc24133-1
Misc : op95600a,e5p1518,900,,,1,1
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Jul 18 16:10:10 2016
Quant Method : C:\MSDCHEM\1\METHODS\M5P1496.M
Quant Title : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
QLast Update : Mon Jul 18 13:05:21 2016
Response via : Initial Calibration

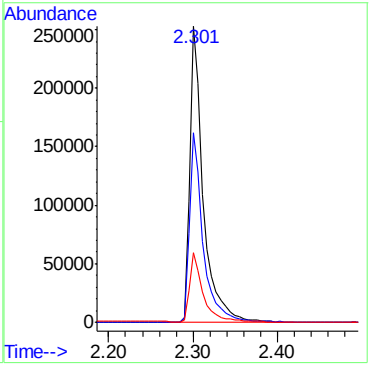




#2
1,4-Dioxane
Concen: 87.80 ppm
RT: 2.301 min Scan# 41
Delta R.T. -0.074 min
Lab File: 5p29770.D
Acq: 18 Jul 16 3:30 pm

Tgt Ion: 88 Resp: 277488

Ion	Ratio	Lower	Upper
88	100		
58	63.9	38.3	98.3
57	23.4	0.0	50.2



7.1.2

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2979\
Data File : 3m62997.D
Acq On : 16 Jul 2016 1:26 am
Operator : juliusj
Sample : jc24133-2
Misc : op95600a,e3m2979,975
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jul 17 14:39:42 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	10.199	150	210872	4.00	ppm	-0.10
14) Fluorene-d10	13.181	176	309407	4.00	ppm	-0.09
21) Fluoranthene-d10	17.386	212	489570	4.00	ppm	-0.09
31) Benzo(a)pyrene-d12	21.995	264	391376	4.00	ppm	-0.08
System Monitoring Compounds						
3) 2-Fluorophenol	4.229	112	878172	29.92	ppm	-0.08
Spiked Amount 50.000			Recovery = 59.84%			
4) Phenol-d5	5.831	99	871810	20.09	ppm	-0.08
Spiked Amount 50.000			Recovery = 40.18%			
7) Nitrobenzene-d5	7.335	82	2028235	49.77	ppm	-0.09
Spiked Amount 50.000			Recovery = 99.54%			
15) 2-Fluorobiphenyl	10.876	172	4063848	48.40	ppm	-0.10
Spiked Amount 50.000			Recovery = 96.80%			
20) 2,4,6-Tribromophenol	13.727	330	587331	45.37	ppm	-0.11
Spiked Amount 50.000			Recovery = 90.74%			
28) Terphenyl-d14	18.221	244	3521982	47.14	ppm	-0.09
Spiked Amount 50.000			Recovery = 94.28%			
Target Compounds						Qvalue
2) 1,4-dioxane	2.035	88	5563330	479.72	ppm #	19

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

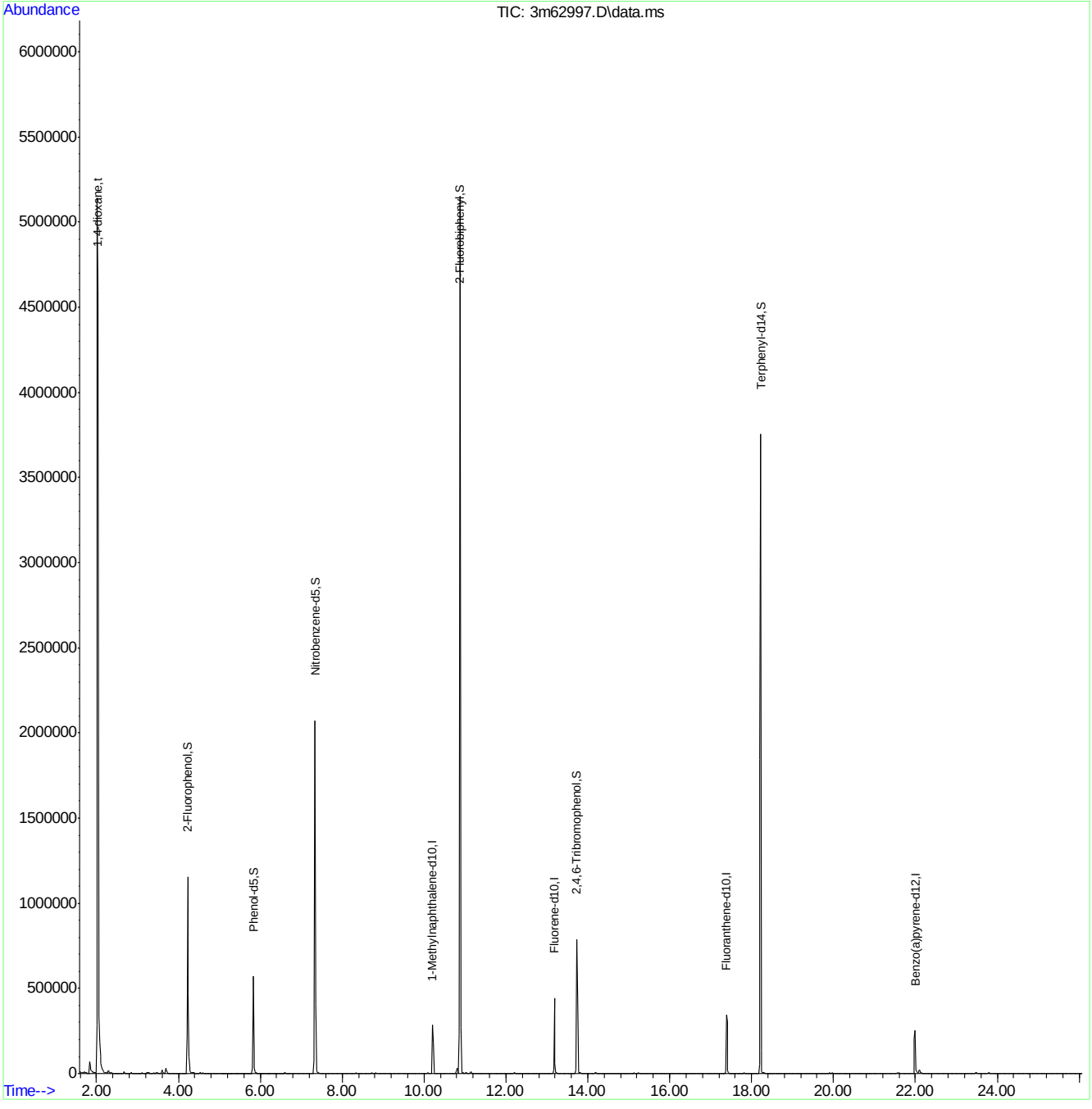
7.1.3

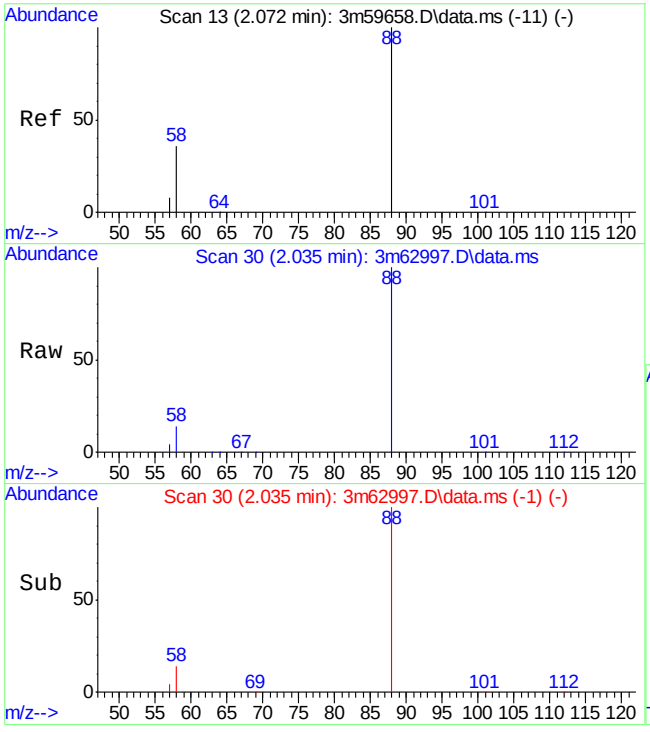
7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2979\
Data File : 3m62997.D
Acq On : 16 Jul 2016 1:26 am
Operator : juliusj
Sample : jc24133-2
Misc : op95600a,e3m2979,975
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jul 17 14:39:42 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

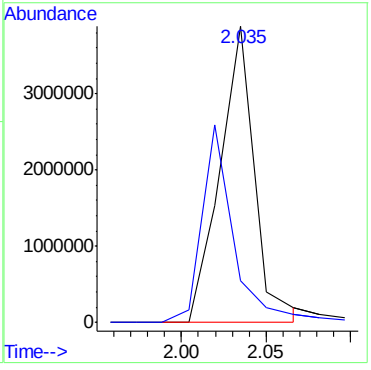




#2
1,4-dioxane
Concen: 479.72 ppm
RT: 2.035 min Scan# 30
Delta R.T. -0.046 min
Lab File: 3m62997.D
Acq: 16 Jul 2016 1:26 am

Tgt Ion: 88 Resp: 5563330

Ion	Ratio	Lower	Upper
88	100		
58	12.9	69.2	109.2#



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E5P1518\
Data File : 5p29760.D
Acq On : 18 Jul 2016 12:07 pm
Operator : ashleyn
Sample : jc24133-2
Misc : op95600a,e5p1518,975,,,1,20
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jul 18 12:45:47 2016
Quant Method : C:\MSDCHEM\1\METHODS\M5P1496.M
Quant Title : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
QLast Update : Fri Jul 15 20:51:24 2016
Response via : Initial Calibration

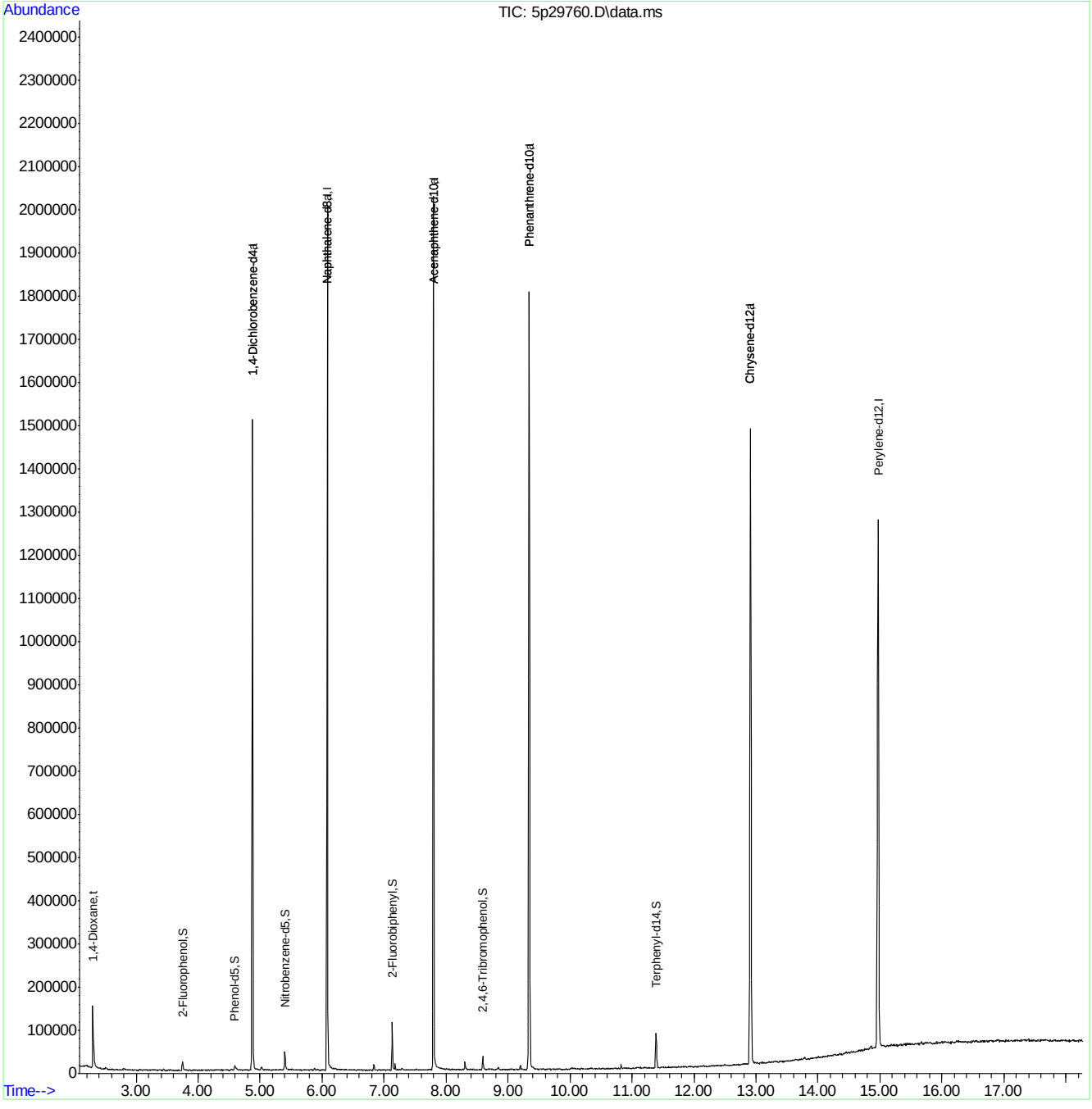
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1,4-Dichlorobenzene-d4	4.876	152	242494	40.00 ppm	-0.02
24) Naphthalene-d8	6.083	136	958857	40.00 ppm	-0.02
47) Acenaphthene-d10	7.798	164	482372	40.00 ppm	-0.02
69) Phenanthrene-d10	9.342	188	783229	40.00 ppm	-0.02
83) Chrysene-d12	12.911	240	625162	40.00 ppm	-0.04
91) Perylene-d12	14.973	264	557998	40.00 ppm	-0.04
101) 1,4-Dichlorobenzene-d4a	4.876	152	242494	40.00 ppm	-0.02
103) Acenaphthene-d10a	7.798	164	482372	40.00 ppm	-0.02
105) Chrysene-d12a	12.911	240	625072	40.00 ppm	-0.04
107) Phenanthrene-d10a	9.342	188	783229	40.00 ppm	-0.02
109) Naphthalene-d8a	6.083	136	958857	40.00 ppm	-0.02
System Monitoring Compounds					
5) 2-Fluorophenol	3.749	112	8659	1.17 ppm	0.00
Spiked Amount 50.000			Recovery	= 2.34%	
8) Phenol-d5	4.593	99	6323	0.71 ppm	0.04
Spiked Amount 50.000			Recovery	= 1.42%	
25) Nitrobenzene-d5	5.400	82	14476	2.07 ppm	-0.02
Spiked Amount 50.000			Recovery	= 4.14%	
51) 2-Fluorobiphenyl	7.131	172	32909	2.55 ppm	-0.03
Spiked Amount 50.000			Recovery	= 5.10%	
73) 2,4,6-Tribromophenol	8.594	330	3923	2.35 ppm	0.00
Spiked Amount 50.000			Recovery	= 4.70%	
85) Terphenyl-d14	11.388	244	27922	2.34 ppm	-0.04
Spiked Amount 50.000			Recovery	= 4.68%	
Target Compounds					Qvalue
2) 1,4-Dioxane	2.301	88	63715	19.31 ppm	93

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

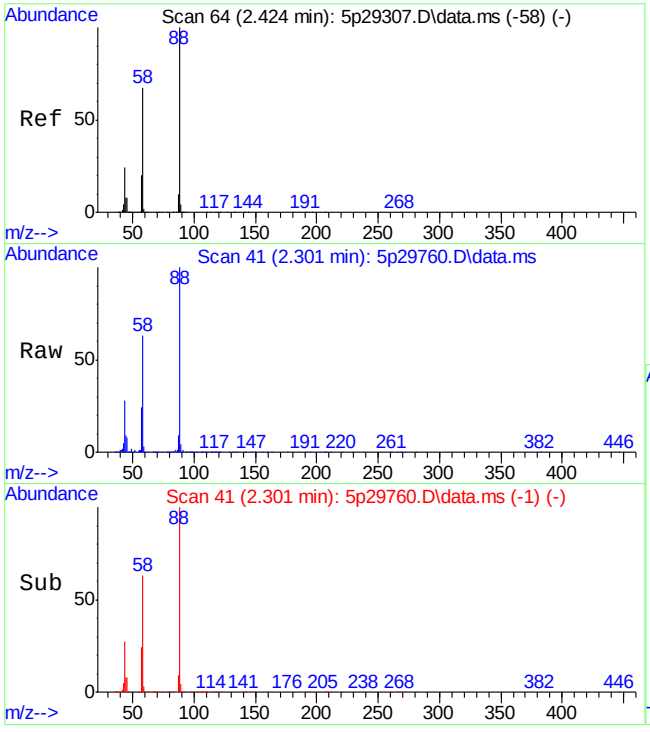
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E5P1518\
Data File : 5p29760.D
Acq On : 18 Jul 2016 12:07 pm
Operator : ashleyn
Sample : jc24133-2
Misc : op95600a,e5p1518,975,,,1,20
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jul 18 12:45:47 2016
Quant Method : C:\MSDCHEM\1\METHODS\M5P1496.M
Quant Title : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
QLast Update : Fri Jul 15 20:51:24 2016
Response via : Initial Calibration



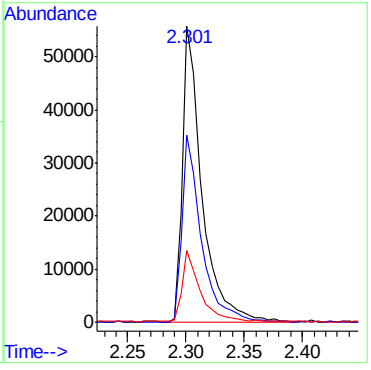
SGS ACCUTEST JC24133



#2
1,4-Dioxane
Concen: 19.31 ppm
RT: 2.301 min Scan# 41
Delta R.T. -0.074 min
Lab File: 5p29760.D
Acq: 18 Jul 16 12:07 pm

Tgt Ion: 88 Resp: 63715

Ion	Ratio	Lower	Upper
88	100		
58	63.1	38.3	98.3
57	23.7	0.0	50.2



7.1.4

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2979\
Data File : 3m62998.D
Acq On : 16 Jul 2016 1:59 am
Operator : juliusj
Sample : jc24133-3
Misc : op95600a,e3m2979,900
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jul 17 14:40:27 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

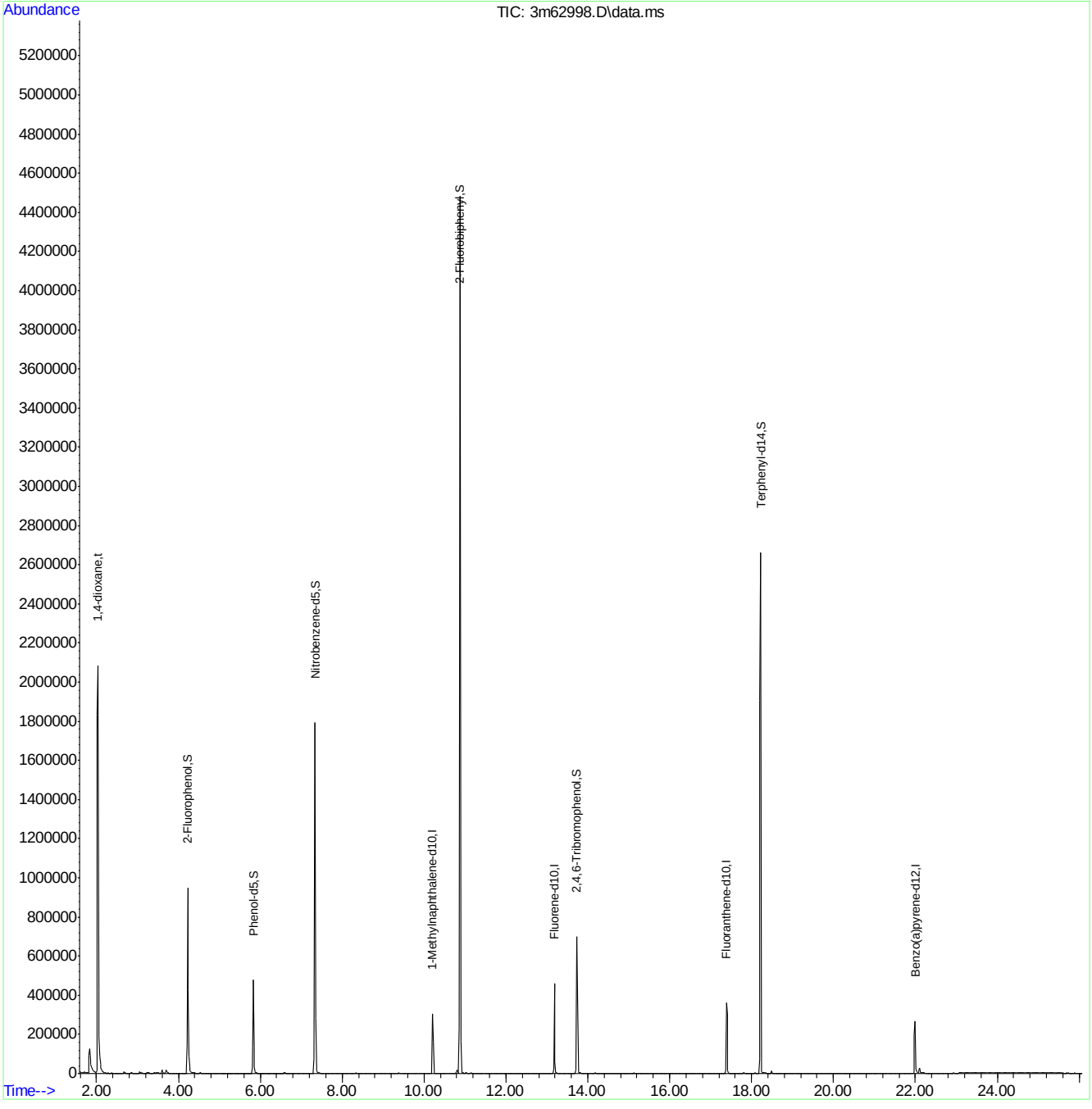
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	10.199	150	210764	4.00	ppm	-0.10
14) Fluorene-d10	13.181	176	317883	4.00	ppm	-0.09
21) Fluoranthene-d10	17.386	212	502212	4.00	ppm	-0.09
31) Benzo(a)pyrene-d12	21.995	264	393433	4.00	ppm	-0.08
System Monitoring Compounds						
3) 2-Fluorophenol	4.229	112	731118	24.92	ppm	-0.08
Spiked Amount 50.000			Recovery = 49.84%			
4) Phenol-d5	5.831	99	777110	17.91	ppm	-0.08
Spiked Amount 50.000			Recovery = 35.82%			
7) Nitrobenzene-d5	7.335	82	1714771	42.10	ppm	-0.09
Spiked Amount 50.000			Recovery = 84.20%			
15) 2-Fluorobiphenyl	10.876	172	3533872	40.96	ppm	-0.10
Spiked Amount 50.000			Recovery = 81.92%			
20) 2,4,6-Tribromophenol	13.727	330	503133	37.83	ppm	-0.11
Spiked Amount 50.000			Recovery = 75.66%			
28) Terphenyl-d14	18.221	244	2857991	37.29	ppm	-0.09
Spiked Amount 50.000			Recovery = 74.58%			
Target Compounds						Qvalue
2) 1,4-dioxane	2.035	88	2183440	188.37	ppm	# 31

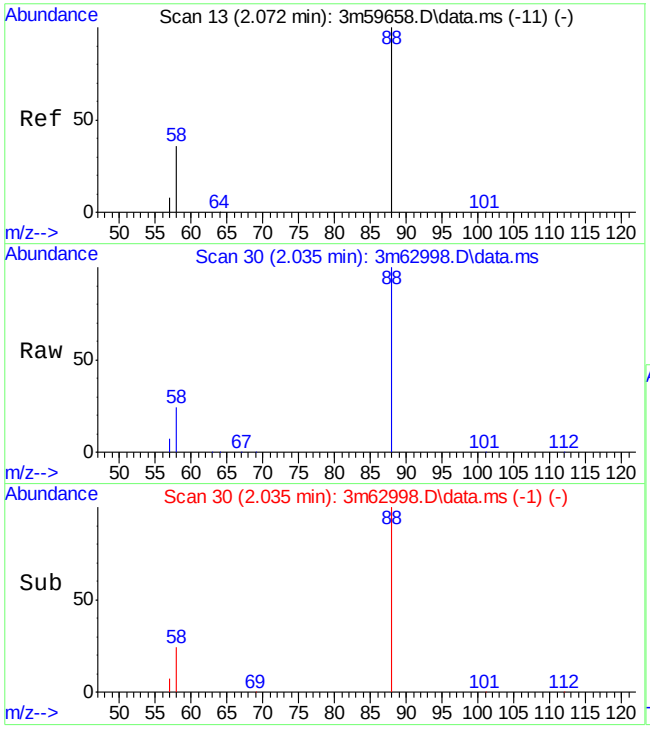
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2979\
Data File : 3m62998.D
Acq On : 16 Jul 2016 1:59 am
Operator : juliusj
Sample : jc24133-3
Misc : op95600a,e3m2979,900
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jul 17 14:40:27 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

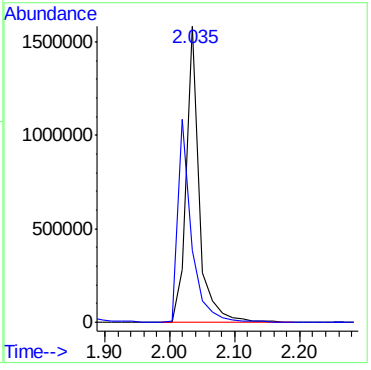




#2
1,4-dioxane
Concen: 188.37 ppm
RT: 2.035 min Scan# 30
Delta R.T. -0.046 min
Lab File: 3m62998.D
Acq: 16 Jul 2016 1:59 am

Tgt Ion: 88 Resp: 2183440

Ion	Ratio	Lower	Upper
88	100		
58	24.1	69.2	109.2#



7.1.5

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E5P1518\
Data File : 5p29761.D
Acq On : 18 Jul 2016 12:32 pm
Operator : ashleyn
Sample : jc24133-3
Misc : op95600a,e5p1518,900,,,1,10
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jul 18 12:55:58 2016
Quant Method : C:\MSDCHEM\1\METHODS\M5P1496.M
Quant Title : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
QLast Update : Fri Jul 15 20:51:24 2016
Response via : Initial Calibration

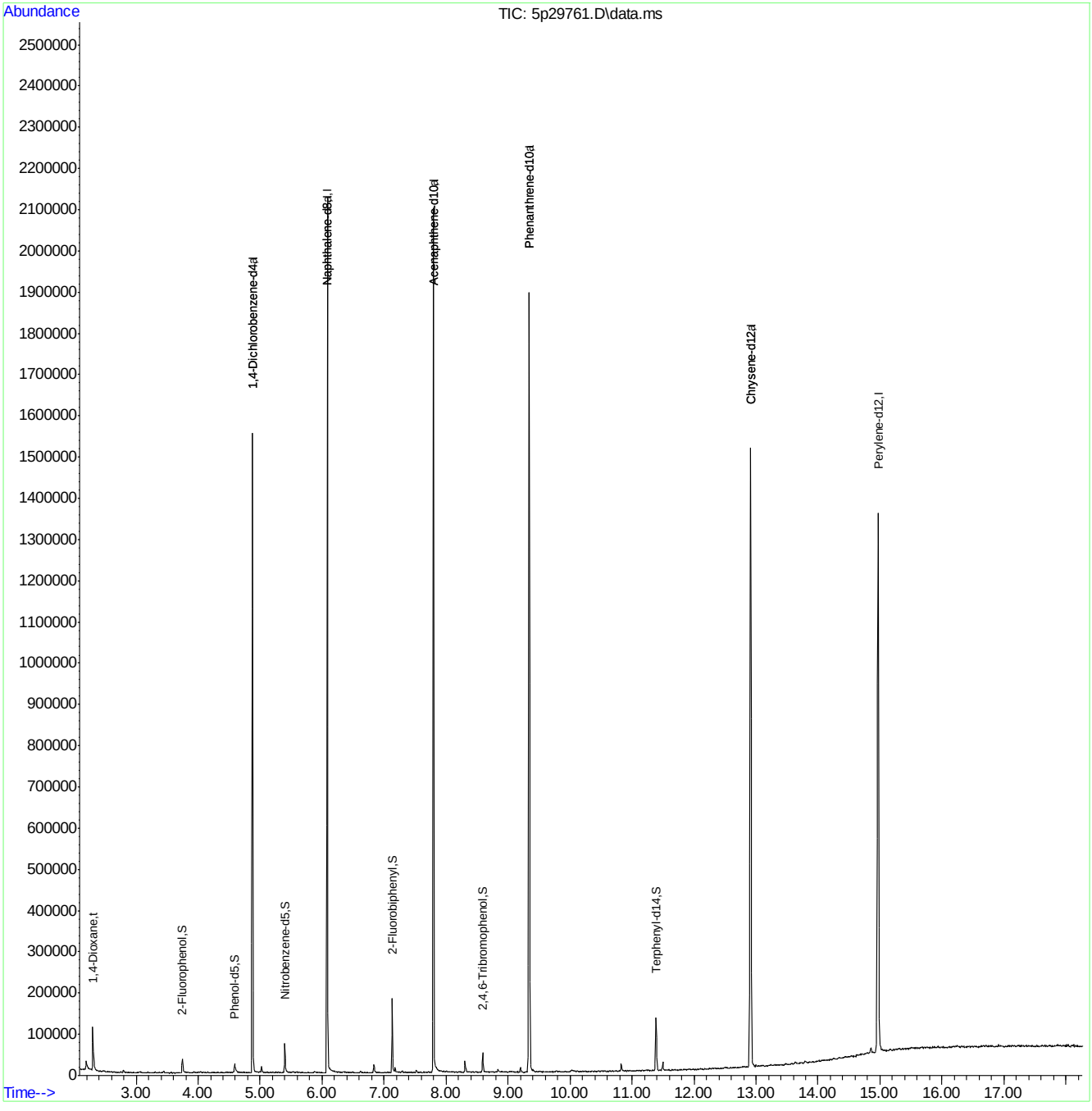
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1,4-Dichlorobenzene-d4	4.876	152	251396	40.00 ppm	-0.02
24) Naphthalene-d8	6.083	136	988658	40.00 ppm	-0.02
47) Acenaphthene-d10	7.798	164	495800	40.00 ppm	-0.02
69) Phenanthrene-d10	9.342	188	801029	40.00 ppm	-0.02
83) Chrysene-d12	12.916	240	651632	40.00 ppm	-0.03
91) Perylene-d12	14.973	264	577029	40.00 ppm	-0.04
101) 1,4-Dichlorobenzene-d4a	4.876	152	251396	40.00 ppm	-0.02
103) Acenaphthene-d10a	7.798	164	495800	40.00 ppm	-0.02
105) Chrysene-d12a	12.916	240	651600	40.00 ppm	-0.03
107) Phenanthrene-d10a	9.342	188	801029	40.00 ppm	-0.02
109) Naphthalene-d8a	6.083	136	988658	40.00 ppm	-0.02
System Monitoring Compounds					
5) 2-Fluorophenol	3.744	112	14288	1.87 ppm	0.00
Spiked Amount 50.000			Recovery	= 3.74%	
8) Phenol-d5	4.593	99	11606	1.25 ppm	0.04
Spiked Amount 50.000			Recovery	= 2.50%	
25) Nitrobenzene-d5	5.400	82	23217	3.23 ppm	-0.02
Spiked Amount 50.000			Recovery	= 6.46%	
51) 2-Fluorobiphenyl	7.130	172	52331	3.94 ppm	-0.03
Spiked Amount 50.000			Recovery	= 7.88%	
73) 2,4,6-Tribromophenol	8.594	330	6178	3.63 ppm	0.00
Spiked Amount 50.000			Recovery	= 7.26%	
85) Terphenyl-d14	11.388	244	43332	3.49 ppm	-0.04
Spiked Amount 50.000			Recovery	= 6.98%	
Target Compounds					Qvalue
2) 1,4-Dioxane	2.301	88	48376	14.14 ppm	93

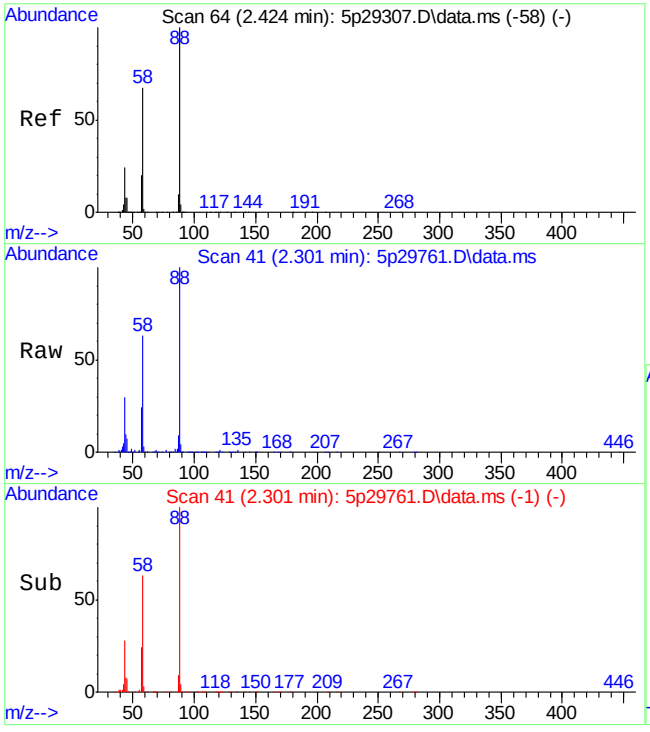
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E5P1518\
Data File : 5p29761.D
Acq On : 18 Jul 2016 12:32 pm
Operator : ashleyn
Sample : jc24133-3
Misc : op95600a,e5p1518,900,,,1,10
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jul 18 12:55:58 2016
Quant Method : C:\MSDCHEM\1\METHODS\M5P1496.M
Quant Title : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
QLast Update : Fri Jul 15 20:51:24 2016
Response via : Initial Calibration

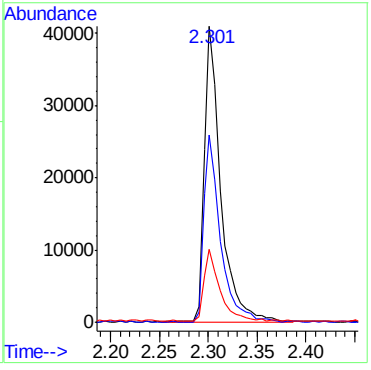




#2
1,4-Dioxane
Concen: 14.14 ppm
RT: 2.301 min Scan# 41
Delta R.T. -0.074 min
Lab File: 5p29761.D
Acq: 18 Jul 16 12:32 pm

Tgt Ion: 88 Resp: 48376

Ion	Ratio	Lower	Upper
88	100		
58	62.9	38.3	98.3
57	24.1	0.0	50.2



7.1.6

7

SGS ACCUTEST JC24133

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2979\
Data File : 3m62999.D
Acq On : 16 Jul 2016 2:32 am
Operator : juliusj
Sample : jc24133-4
Misc : op95600a,e3m2979,900
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jul 17 14:41:18 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

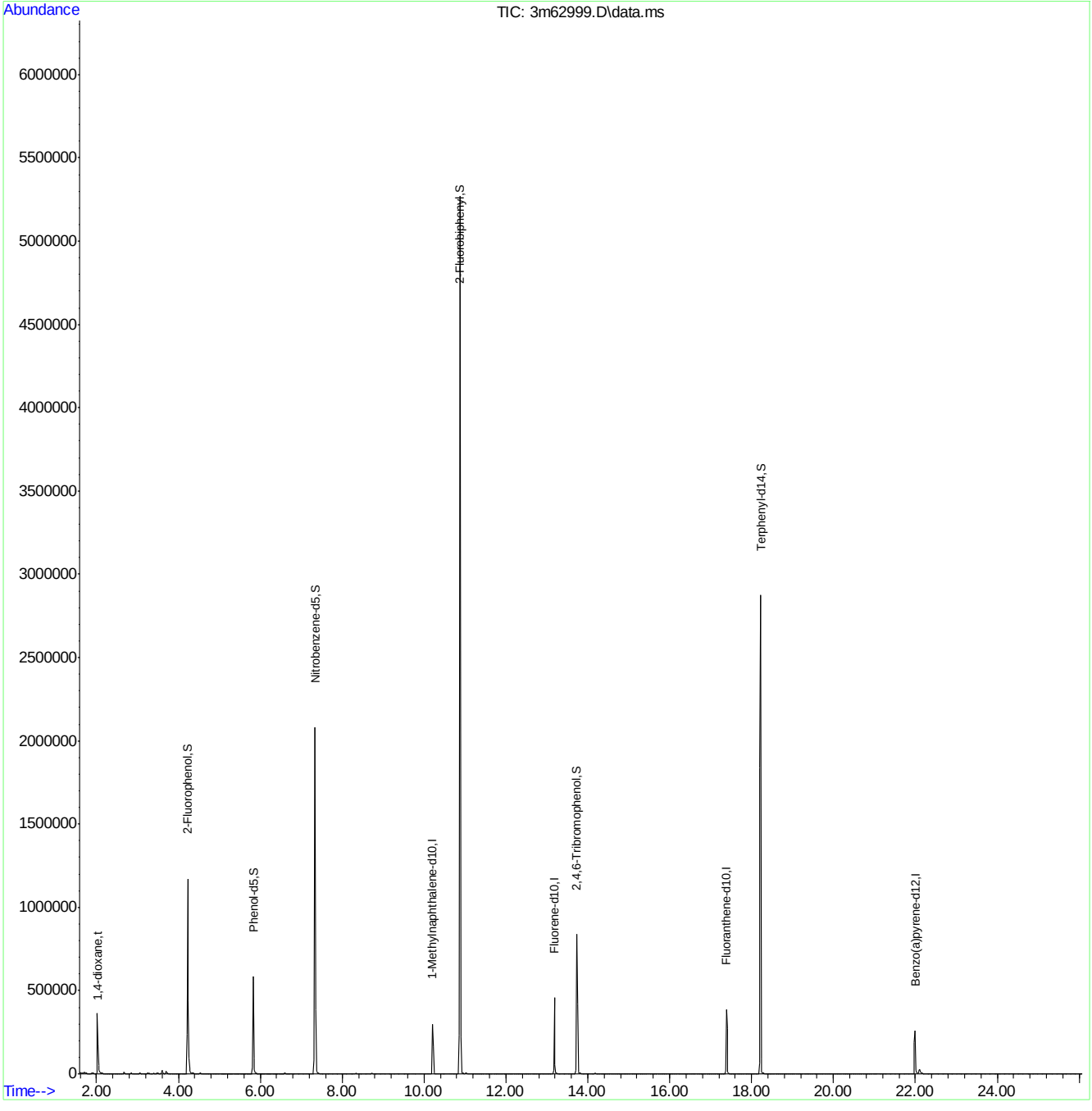
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	10.200	150	211717	4.00	ppm	-0.10
14) Fluorene-d10	13.181	176	313554	4.00	ppm	-0.09
21) Fluoranthene-d10	17.386	212	499700	4.00	ppm	-0.09
31) Benzo(a)pyrene-d12	21.995	264	379834	4.00	ppm	-0.08
System Monitoring Compounds						
3) 2-Fluorophenol	4.229	112	888223	30.14	ppm	-0.08
Spiked Amount 50.000			Recovery = 60.28%			
4) Phenol-d5	5.831	99	902800	20.72	ppm	-0.08
Spiked Amount 50.000			Recovery = 41.44%			
7) Nitrobenzene-d5	7.335	82	2024074	49.47	ppm	-0.09
Spiked Amount 50.000			Recovery = 98.94%			
15) 2-Fluorobiphenyl	10.876	172	4110636	48.30	ppm	-0.10
Spiked Amount 50.000			Recovery = 96.60%			
20) 2,4,6-Tribromophenol	13.728	330	606478	46.23	ppm	-0.11
Spiked Amount 50.000			Recovery = 92.46%			
28) Terphenyl-d14	18.221	244	2958900	38.80	ppm	-0.09
Spiked Amount 50.000			Recovery = 77.60%			
Target Compounds						Qvalue
2) 1,4-dioxane	2.035	88	265307	22.79	ppm #	36

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

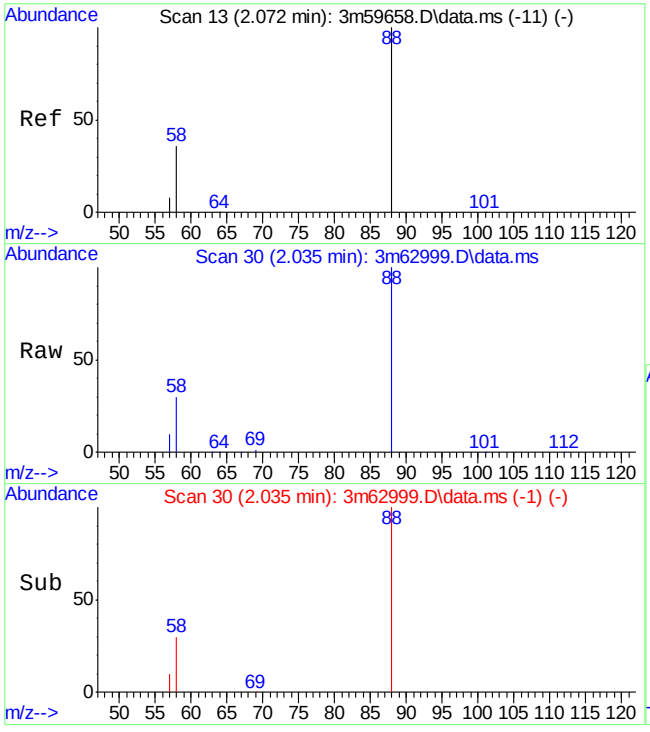
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2979\
Data File : 3m62999.D
Acq On : 16 Jul 2016 2:32 am
Operator : juliusj
Sample : jc24133-4
Misc : op95600a,e3m2979,900
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jul 17 14:41:18 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



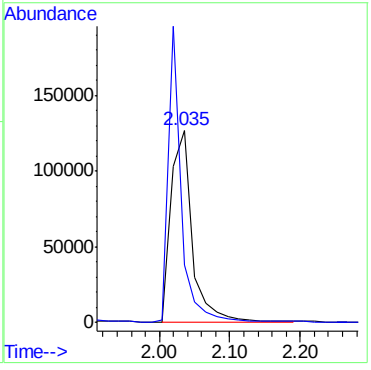
M3M2975SIM.M Sun Jul 17 14:41:22 2016 RPT1 Page: 2



#2
1,4-dioxane
Concen: 22.79 ppm
RT: 2.035 min Scan# 30
Delta R.T. -0.046 min
Lab File: 3m62999.D
Acq: 16 Jul 2016 2:32 am

Tgt Ion: 88 Resp: 265307

Ion	Ratio	Lower	Upper
88	100		
58	28.9	69.2	109.2#



SGS ACCUTEST JC24133

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E5P1518\
Data File : 5p29762.D
Acq On : 18 Jul 16 12:58 pm
Operator : ashleyn
Sample : jc24133-4
Misc : op95600a,e5p1518,900,,,1,1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jul 18 13:35:48 2016
Quant Method : C:\MSDCHEM\1\METHODS\M5P1496.M
Quant Title : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
QLast Update : Mon Jul 18 13:05:21 2016
Response via : Initial Calibration

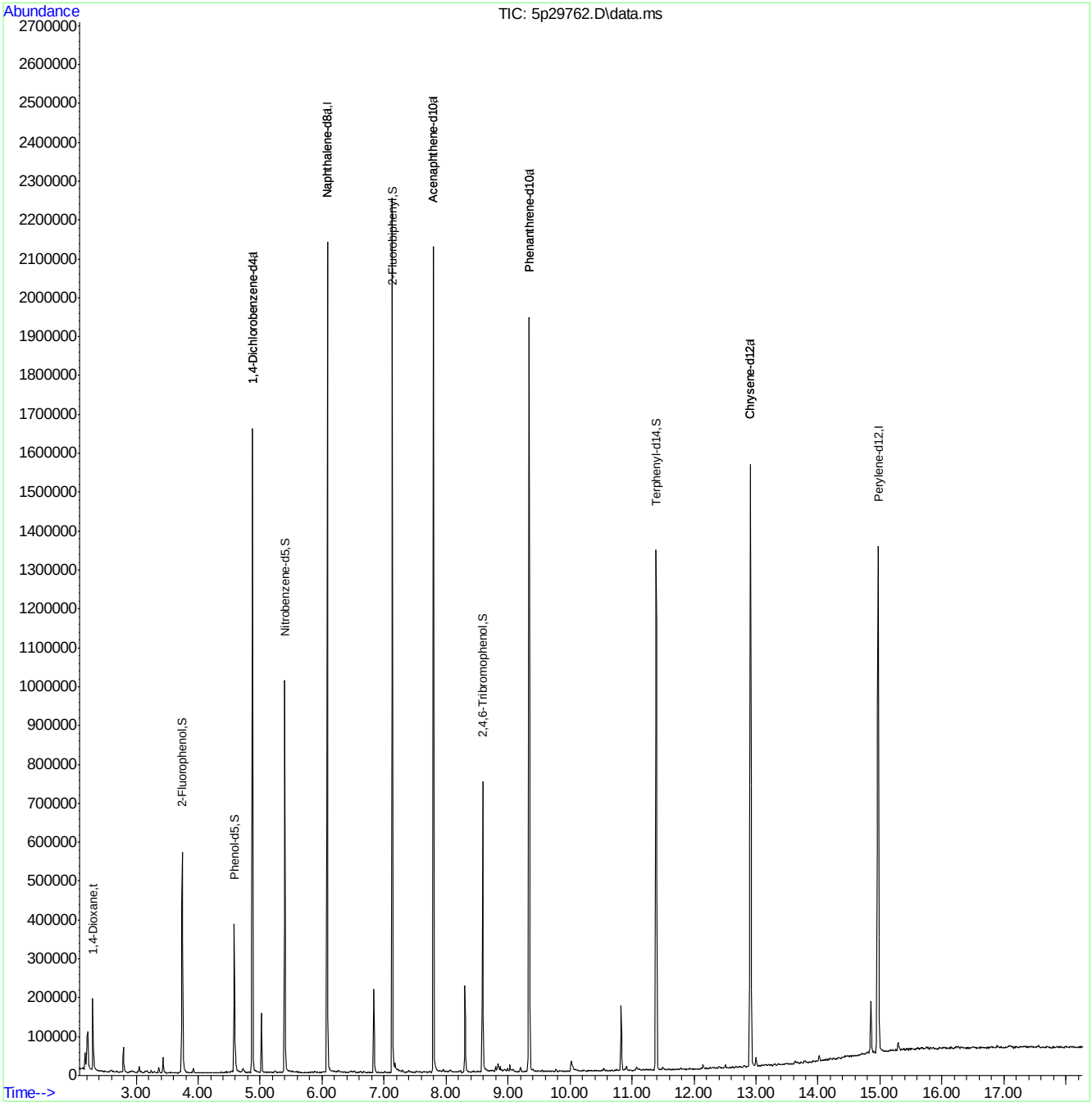
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1,4-Dichlorobenzene-d4	4.876	152	258531	40.00 ppm	-0.02
24) Naphthalene-d8	6.083	136	1007183	40.00 ppm	-0.02
47) Acenaphthene-d10	7.793	164	505632	40.00 ppm	-0.02
69) Phenanthrene-d10	9.342	188	810429	40.00 ppm	-0.02
83) Chrysene-d12	12.911	240	651171	40.00 ppm	-0.04
91) Perylene-d12	14.973	264	586542	40.00 ppm	-0.04
101) 1,4-Dichlorobenzene-d4a	4.876	152	258531	40.00 ppm	-0.02
103) Acenaphthene-d10a	7.793	164	505632	40.00 ppm	-0.02
105) Chrysene-d12a	12.911	240	651171	40.00 ppm	-0.04
107) Phenanthrene-d10a	9.342	188	810429	40.00 ppm	-0.02
109) Naphthalene-d8a	6.083	136	1007183	40.00 ppm	-0.02
System Monitoring Compounds					
5) 2-Fluorophenol	3.744	112	190766	24.24 ppm	0.00
Spiked Amount 50.000			Recovery	= 48.48%	
8) Phenol-d5	4.582	99	163630	17.12 ppm	0.02
Spiked Amount 50.000			Recovery	= 34.24%	
25) Nitrobenzene-d5	5.394	82	301694	41.16 ppm	-0.02
Spiked Amount 50.000			Recovery	= 82.32%	
51) 2-Fluorobiphenyl	7.131	172	684427	50.58 ppm	-0.03
Spiked Amount 50.000			Recovery	= 101.16%	
73) 2,4,6-Tribromophenol	8.589	330	81591	47.34 ppm	-0.02
Spiked Amount 50.000			Recovery	= 94.68%	
85) Terphenyl-d14	11.388	244	461066	37.16 ppm	-0.04
Spiked Amount 50.000			Recovery	= 74.32%	
Target Compounds					Qvalue
2) 1,4-Dioxane	2.301	88	69431	19.74 ppm	91

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

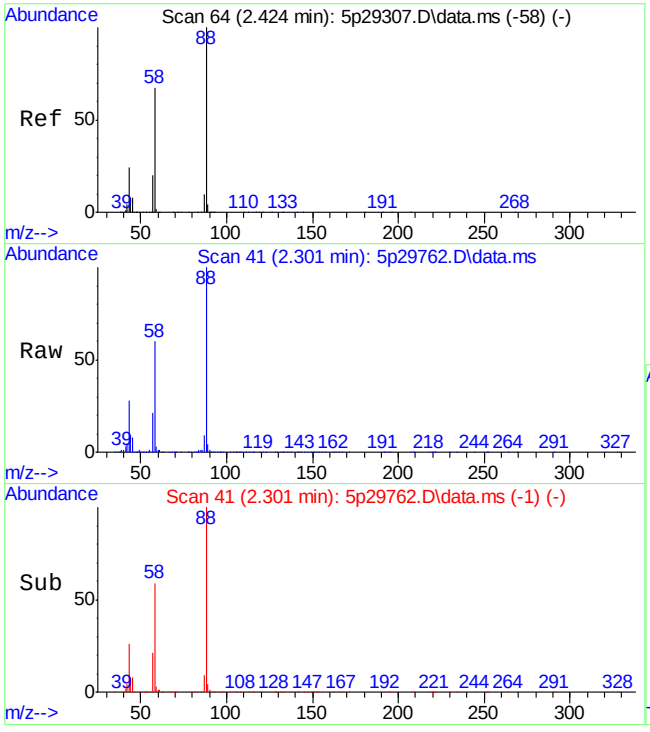
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E5P1518\
Data File : 5p29762.D
Acq On : 18 Jul 16 12:58 pm
Operator : ashleyn
Sample : jc24133-4
Misc : op95600a,e5p1518,900,,,1,1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jul 18 13:35:48 2016
Quant Method : C:\MSDCHEM\1\METHODS\M5P1496.M
Quant Title : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
QLast Update : Mon Jul 18 13:05:21 2016
Response via : Initial Calibration



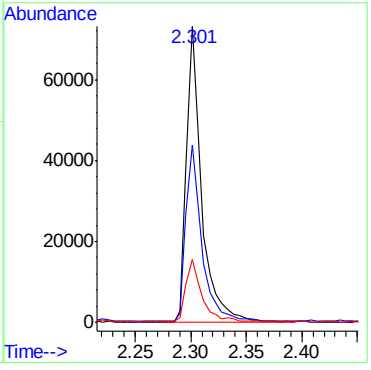
SGS ACCUTEST JC24133



#2
1,4-Dioxane
Concen: 19.74 ppm
RT: 2.301 min Scan# 41
Delta R.T. -0.074 min
Lab File: 5p29762.D
Acq: 18 Jul 16 12:58 pm

Tgt Ion: 88 Resp: 69431

Ion	Ratio	Lower	Upper
88	100		
58	59.6	38.3	98.3
57	20.9	0.0	50.2



7.1.8

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2979\
Data File : 3m63000.D
Acq On : 16 Jul 2016 3:05 am
Operator : juliusj
Sample : jc24133-5
Misc : op95600a,e3m2979,875
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jul 17 14:41:50 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	10.200	150	222830	4.00	ppm	-0.10
14) Fluorene-d10	13.181	176	328320	4.00	ppm	-0.09
21) Fluoranthene-d10	17.386	212	523814	4.00	ppm	-0.09
31) Benzo(a)pyrene-d12	21.995	264	406775	4.00	ppm	-0.08
System Monitoring Compounds						
3) 2-Fluorophenol	4.229	112	908260	29.29	ppm	-0.08
Spiked Amount 50.000			Recovery = 58.58%			
4) Phenol-d5	5.831	99	915161	19.95	ppm	-0.08
Spiked Amount 50.000			Recovery = 39.90%			
7) Nitrobenzene-d5	7.335	82	2096630	48.68	ppm	-0.09
Spiked Amount 50.000			Recovery = 97.36%			
15) 2-Fluorobiphenyl	10.876	172	4190512	47.03	ppm	-0.10
Spiked Amount 50.000			Recovery = 94.06%			
20) 2,4,6-Tribromophenol	13.728	330	624815	45.49	ppm	-0.11
Spiked Amount 50.000			Recovery = 90.98%			
28) Terphenyl-d14	18.221	244	2906532	36.36	ppm	-0.09
Spiked Amount 50.000			Recovery = 72.72%			
Target Compounds						Qvalue
2) 1,4-dioxane	2.035	88	125614	10.25	ppm	# 32

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

7.1.9

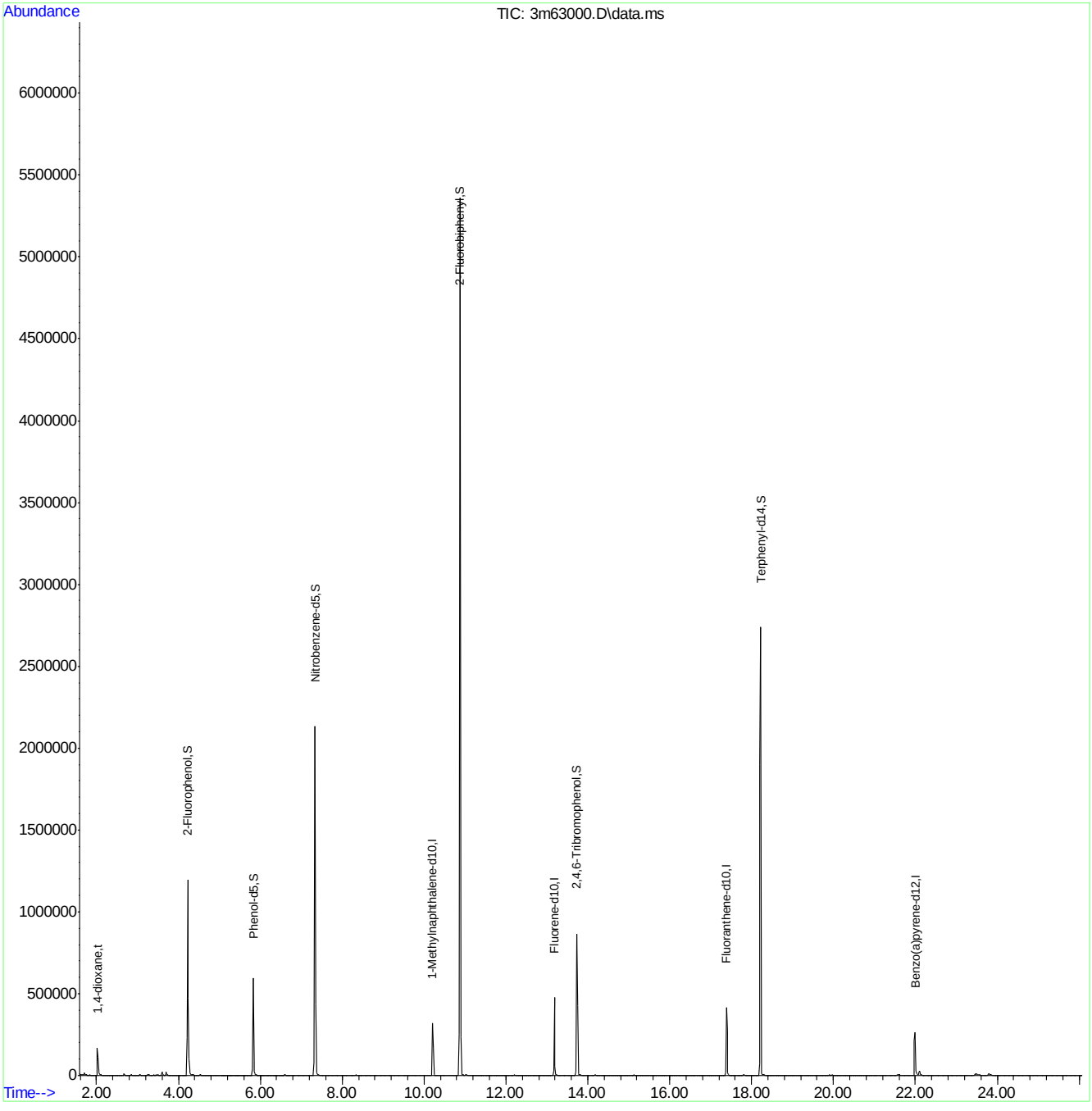
7

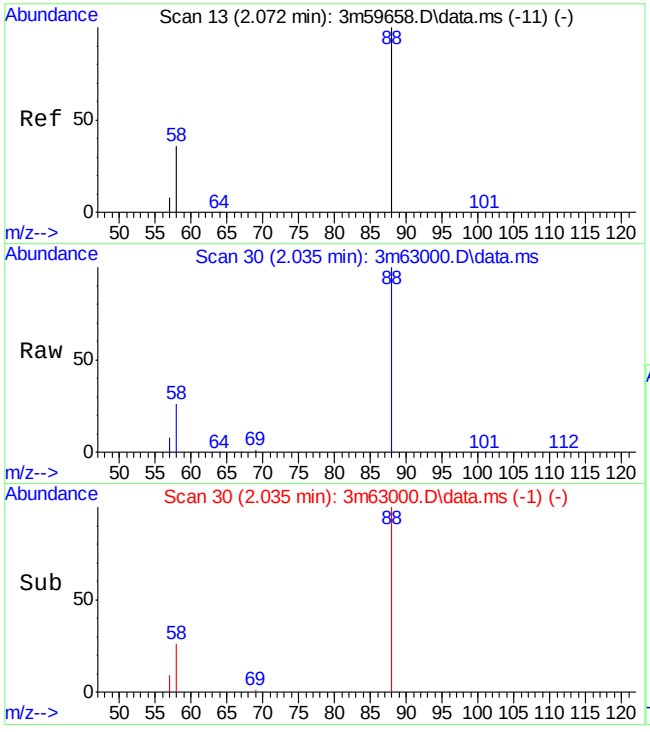
SGS ACCUTEST JC24133

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2979\
Data File : 3m63000.D
Acq On : 16 Jul 2016 3:05 am
Operator : juliusj
Sample : jc24133-5
Misc : op95600a,e3m2979,875
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jul 17 14:41:50 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

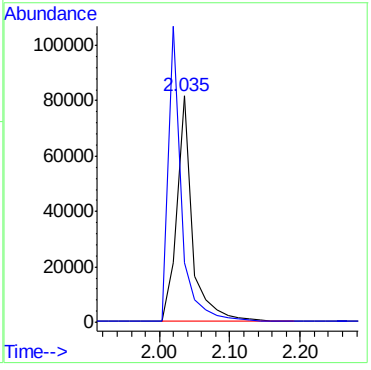




#2
1,4-dioxane
Concen: 10.25 ppm
RT: 2.035 min Scan# 30
Delta R.T. -0.046 min
Lab File: 3m63000.D
Acq: 16 Jul 2016 3:05 am

Tgt Ion: 88 Resp: 125614

Ion	Ratio	Lower	Upper
88	100		
58	25.7	69.2	109.2#



Quantitation Report (QT/LSC Reviewed)

Data Path : C:\msdchem\1\DATA\E5P1518\
Data File : 5p29763.D
Acq On : 18 Jul 2016 1:23 pm
Operator : ashleyn
Sample : jc24133-5
Misc : op95600a,e5p1518,875,,,1,1
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jul 18 14:38:02 2016
Quant Method : C:\MSDCHEM\1\METHODS\M5P1496.M
Quant Title : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
QLast Update : Mon Jul 18 14:37:02 2016
Response via : Initial Calibration

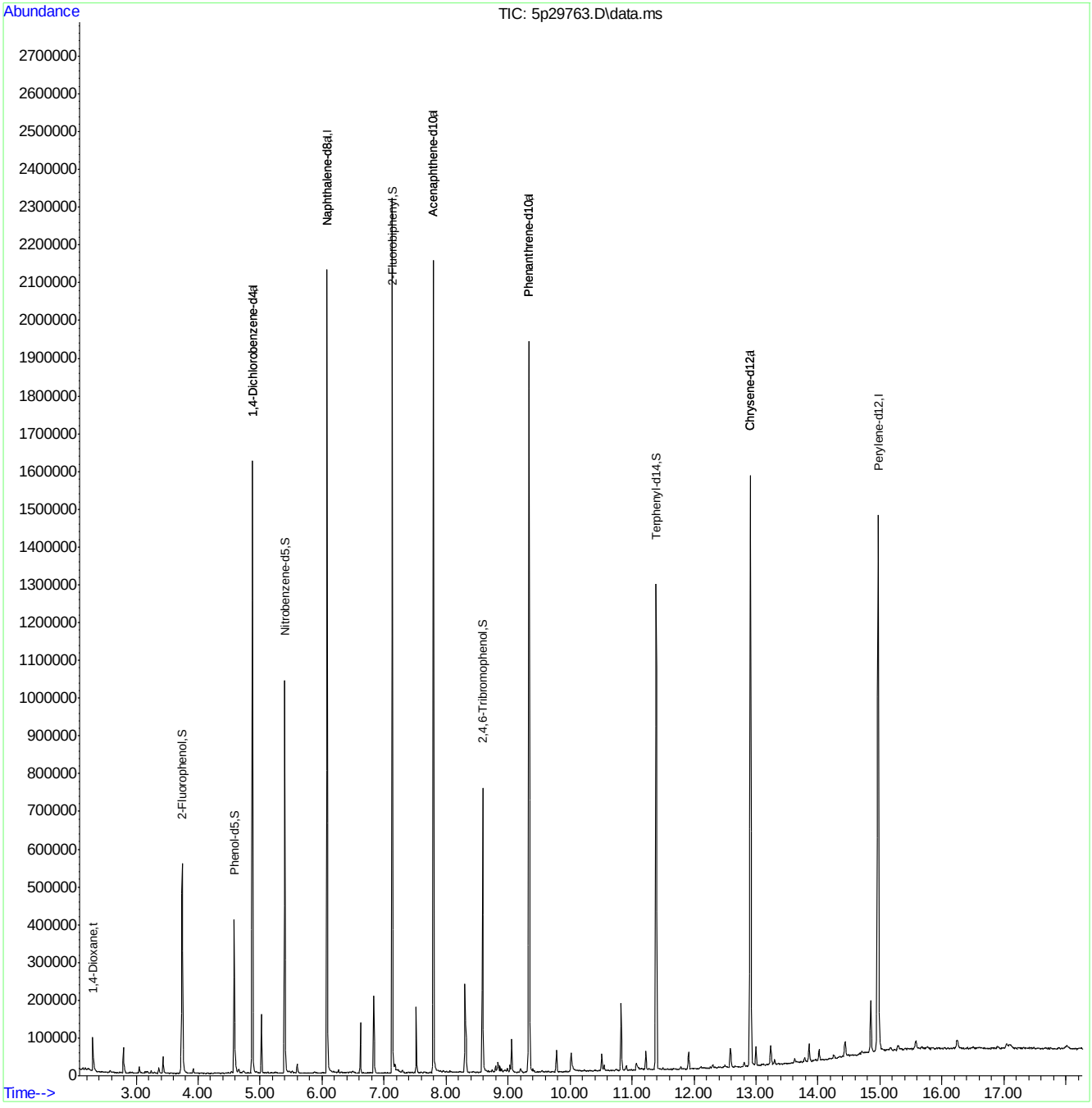
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.876	152	259710	40.00	ppm	-0.02
24) Naphthalene-d8	6.078	136	1021371	40.00	ppm	-0.02
47) Acenaphthene-d10	7.793	164	501902	40.00	ppm	-0.02
69) Phenanthrene-d10	9.337	188	800854	40.00	ppm	-0.03
83) Chrysene-d12	12.911	240	650054	40.00	ppm	-0.04
91) Perylene-d12	14.973	264	619967	40.00	ppm	-0.04
101) 1,4-Dichlorobenzene-d4a	4.876	152	259710	40.00	ppm	-0.02
103) Acenaphthene-d10a	7.793	164	501902	40.00	ppm	-0.02
105) Chrysene-d12a	12.911	240	651194	40.00	ppm	-0.04
107) Phenanthrene-d10a	9.337	188	800854	40.00	ppm	-0.03
109) Naphthalene-d8a	6.078	136	1021371	40.00	ppm	-0.02
System Monitoring Compounds						
5) 2-Fluorophenol	3.744	112	191283	24.20	ppm	0.00
Spiked Amount 50.000			Recovery = 48.40%			
8) Phenol-d5	4.582	99	164083	17.09	ppm	0.02
Spiked Amount 50.000			Recovery = 34.18%			
25) Nitrobenzene-d5	5.394	82	310181	41.74	ppm	-0.02
Spiked Amount 50.000			Recovery = 83.48%			
51) 2-Fluorobiphenyl	7.131	172	689864	51.36	ppm	-0.03
Spiked Amount 50.000			Recovery = 102.72%			
73) 2,4,6-Tribromophenol	8.589	330	82629	48.51	ppm	-0.02
Spiked Amount 50.000			Recovery = 97.02%			
85) Terphenyl-d14	11.388	244	443539	35.81	ppm	-0.04
Spiked Amount 50.000			Recovery = 71.62%			
Target Compounds						Qvalue
2) 1,4-Dioxane	2.301	88	34785	9.84	ppm	91

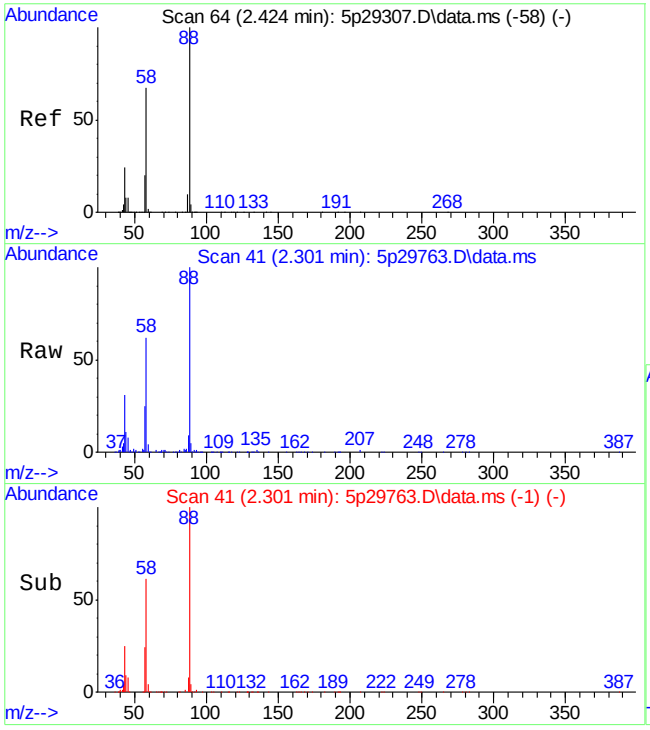
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT/LSC Reviewed)

Data Path : C:\msdchem\1\DATA\E5P1518\
Data File : 5p29763.D
Acq On : 18 Jul 2016 1:23 pm
Operator : ashleyn
Sample : jc24133-5
Misc : op95600a,e5p1518,875,,,1,1
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jul 18 14:38:02 2016
Quant Method : C:\MSDCHEM\1\METHODS\M5P1496.M
Quant Title : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
QLast Update : Mon Jul 18 14:37:02 2016
Response via : Initial Calibration

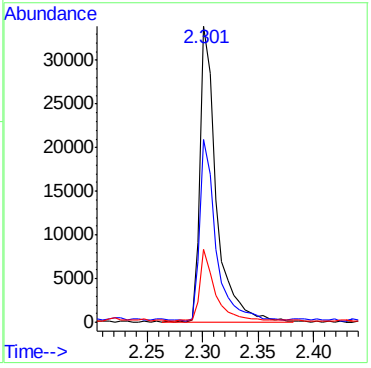




#2
1,4-Dioxane
Concen: 9.84 ppm
RT: 2.301 min Scan# 41
Delta R.T. -0.073 min
Lab File: 5p29763.D
Acq: 18 Jul 16 1:23 pm

Tgt Ion: 88 Resp: 34785

Ion	Ratio	Lower	Upper
88	100		
58	60.6	38.3	98.3
57	24.1	0.0	50.2



7.1.10

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2979\
Data File : 3m63001.D
Acq On : 16 Jul 2016 3:37 am
Operator : juliusj
Sample : jc24133-6
Misc : op95600a,e3m2979,875
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jul 17 14:42:30 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	10.199	150	220770	4.00	ppm	-0.10
14) Fluorene-d10	13.181	176	326842	4.00	ppm	-0.09
21) Fluoranthene-d10	17.386	212	510823	4.00	ppm	-0.09
31) Benzo(a)pyrene-d12	21.995	264	397089	4.00	ppm	-0.08
System Monitoring Compounds						
3) 2-Fluorophenol	4.229	112	1007683	32.79	ppm	-0.08
Spiked Amount 50.000			Recovery = 65.58%			
4) Phenol-d5	5.831	99	1024776	22.55	ppm	-0.08
Spiked Amount 50.000			Recovery = 45.10%			
7) Nitrobenzene-d5	7.335	82	2212696	51.86	ppm	-0.09
Spiked Amount 50.000			Recovery = 103.72%			
15) 2-Fluorobiphenyl	10.876	172	4436010	50.01	ppm	-0.10
Spiked Amount 50.000			Recovery = 100.02%			
20) 2,4,6-Tribromophenol	13.727	330	664260	48.58	ppm	-0.11
Spiked Amount 50.000			Recovery = 97.16%			
28) Terphenyl-d14	18.220	244	4400857	56.46	ppm	-0.09
Spiked Amount 50.000			Recovery = 112.92%			

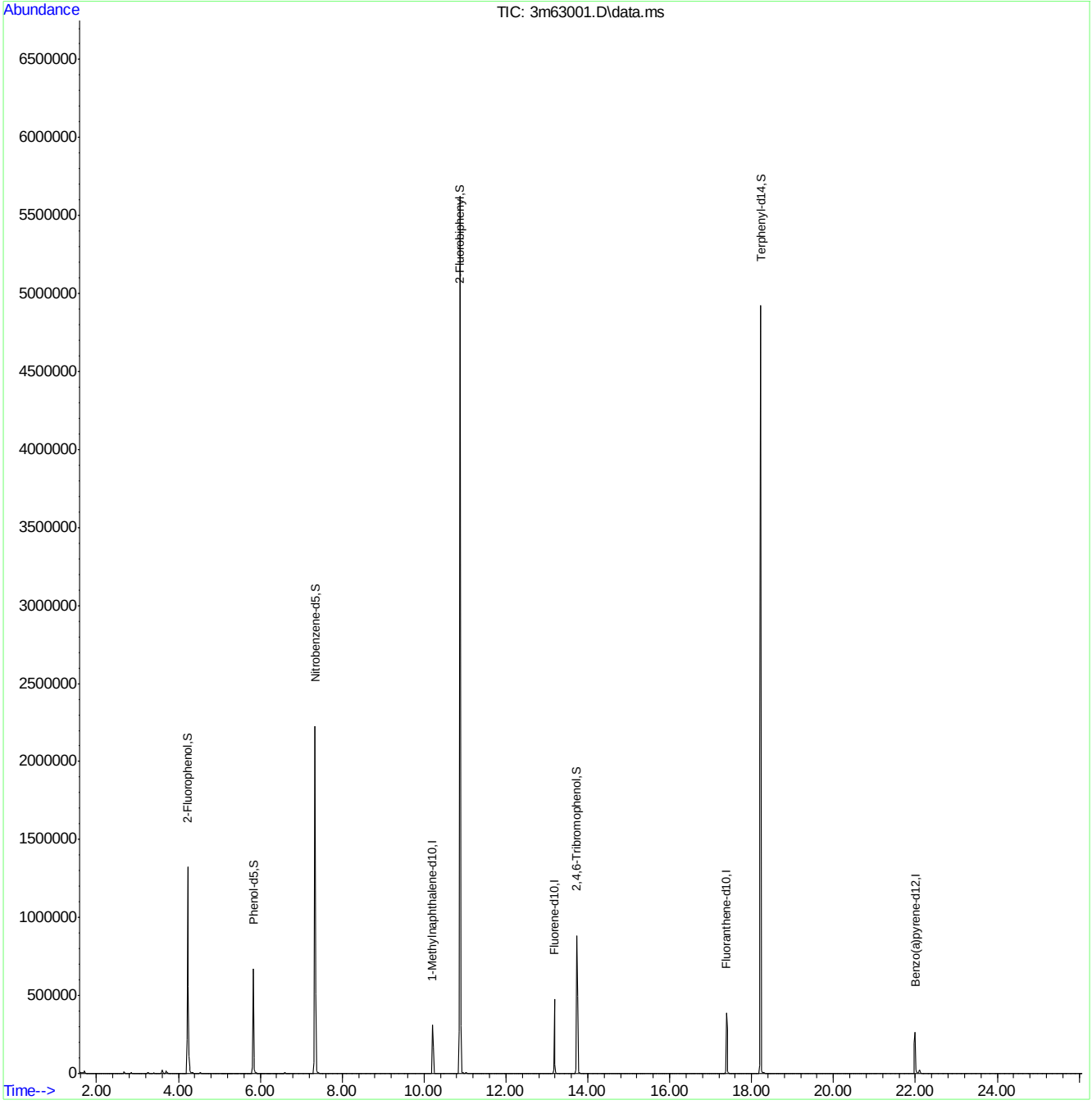
Target Compounds Qvalue

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2979\
Data File : 3m63001.D
Acq On : 16 Jul 2016 3:37 am
Operator : juliusj
Sample : jc24133-6
Misc : op95600a,e3m2979,875
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jul 17 14:42:30 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\E3E3739\
Data File : 3E85324.D
Acq On : 19 Jul 2016 4:07 pm
Operator : ashleyn
Sample : jc24133-7
Misc : op95633a,e3e3739,925
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Jul 19 16:45:10 2016
Quant Method : C:\msdchem\1\METHODS\M3E3699.M
Quant Title : Semi Volatile GC/MS,zb-5msplus 30m x .25mm x .25MFri Jul 15 16:43:26 2016
QLast Update : Fri Jul 15 16:43:26 2016
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.036	152	110174	40.00	ppm	0.05
24) Naphthalene-d8	6.191	136	415206	40.00	ppm	0.06
47) Acenaphthene-d10	8.352	164	260870	40.00	ppm	0.07
69) Phenanthrene-d10	10.583	188	459412	40.00	ppm	0.09
83) Chrysene-d12	14.829	240	439620	40.00	ppm	0.10
92) Perylene-d12	17.017	264	359067	40.00	ppm	0.12
102) 1,4-Dichlorobenzene-d4a	5.036	152	110174	40.00	ppm	0.05
104) Acenaphthene-d10a	8.352	164	260870	40.00	ppm	0.07
106) Phenanthrene-d10a	10.583	188	459412	40.00	ppm	0.09
108) Chrysene-d12a	14.829	240	439620	40.00	ppm	0.10
110) Naphthalene-d8a	6.191	136	415206	40.00	ppm	0.06

System Monitoring Compounds						
5) 2-Fluorophenol	4.068	112	55351	16.21	ppm	0.07
Spiked Amount 50.000			Recovery = 32.42%			
8) Phenol-d5	4.785	99	47434	11.43	ppm	0.09
Spiked Amount 50.000			Recovery = 22.86%			
25) Nitrobenzene-d5	5.507	82	131990	41.68	ppm	0.06
Spiked Amount 50.000			Recovery = 83.36%			
51) 2-Fluorobiphenyl	7.432	172	330474	38.30	ppm	0.06
Spiked Amount 50.000			Recovery = 76.60%			
73) 2,4,6-Tribromophenol	9.523	330	45023	30.28	ppm	0.08
Spiked Amount 50.000			Recovery = 60.56%			
85) Terphenyl-d14	13.150	244	316311	34.17	ppm	0.07
Spiked Amount 50.000			Recovery = 68.34%			

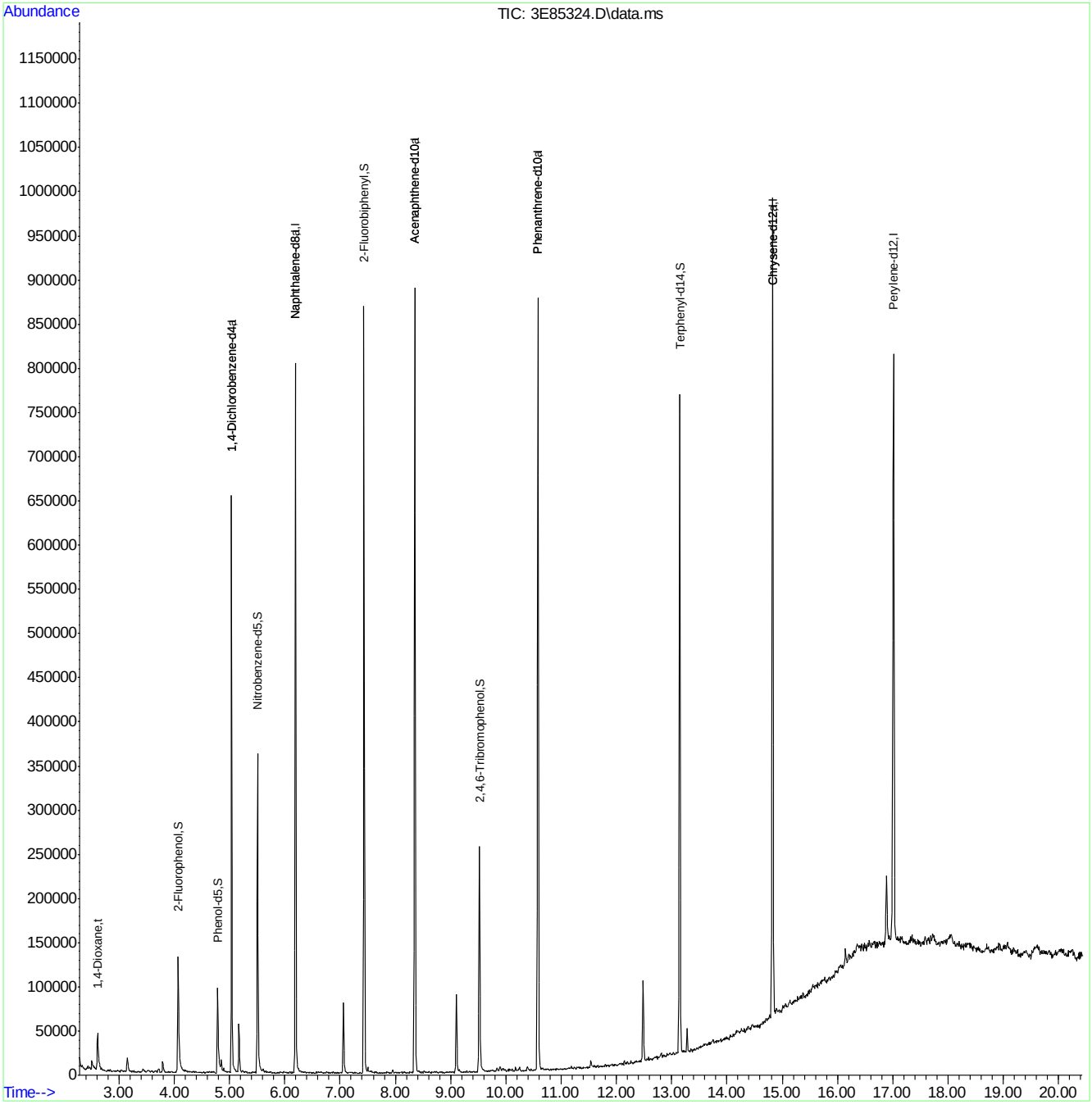
Target Compounds						Qvalue
2) 1,4-Dioxane	2.613	88	25776	17.67	ppm	95

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

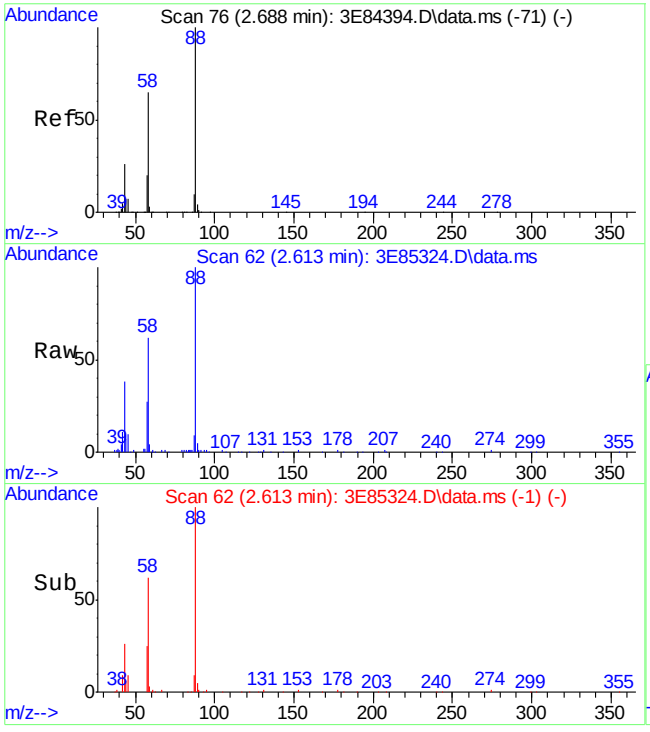
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3E3739\
Data File : 3E85324.D
Acq On : 19 Jul 2016 4:07 pm
Operator : ashleyn
Sample : jc24133-7
Misc : op95633a,e3e3739,925
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Jul 19 16:45:10 2016
Quant Method : C:\msdchem\1\METHODS\M3E3699.M
Quant Title : Semi Volatile GC/MS,zb-5msplus 30m x .25mm x .25MFri Jul 15 16:43:26 2016
QLast Update : Fri Jul 15 16:43:26 2016
Response via : Initial Calibration



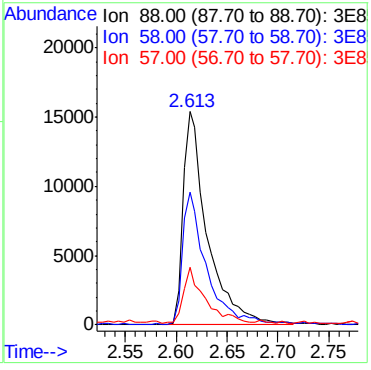
M3E3699.M Tue Jul 19 16:45:43 2016 MS3E



#2
1,4-Dioxane
Concen: 17.67 ppm
RT: 2.613 min Scan# 62
Delta R.T. -0.005 min
Lab File: 3E85324.D
Acq: 19 Jul 2016 4:07 pm

Tgt Ion: 88 Resp: 25776

Ion	Ratio	Lower	Upper
88	100		
58	62.0	34.5	94.5
57	26.0	0.0	50.4



7.1.12

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2982\
Data File : 3m63049.D
Acq On : 19 Jul 2016 12:09 pm
Operator : hankc
Sample : jc24133-7
Misc : op95633a,e3m2982,925
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jul 19 15:36:44 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2975SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon Jul 18 15:41:37 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	10.240	150	352441	4.00	ppm	0.06
14) Fluorene-d10	13.219	176	452579	4.00	ppm	0.06
21) Fluoranthene-d10	17.432	212	738171	4.00	ppm	0.06
31) Benzo(a)pyrene-d12	22.033	264	553257	4.00	ppm	0.06
System Monitoring Compounds						
3) 2-Fluorophenol	4.260	112	818167	16.68	ppm	0.00
Spiked Amount 50.000			Recovery = 33.36%			
4) Phenol-d5	5.843	99	866446	11.94	ppm	0.00
Spiked Amount 50.000			Recovery = 23.88%			
7) Nitrobenzene-d5	7.353	82	2135332	31.35	ppm	0.01
Spiked Amount 50.000			Recovery = 62.70%			
15) 2-Fluorobiphenyl	10.917	172	4852184	39.50	ppm	0.03
Spiked Amount 50.000			Recovery = 79.00%			
20) 2,4,6-Tribromophenol	13.765	330	705499	37.26	ppm	0.04
Spiked Amount 50.000			Recovery = 74.52%			
28) Terphenyl-d14	18.251	244	3886701	34.50	ppm	0.05
Spiked Amount 50.000			Recovery = 69.00%			
Target Compounds						Qvalue
2) 1,4-dioxane	2.050	88	291342	15.03	ppm #	38

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

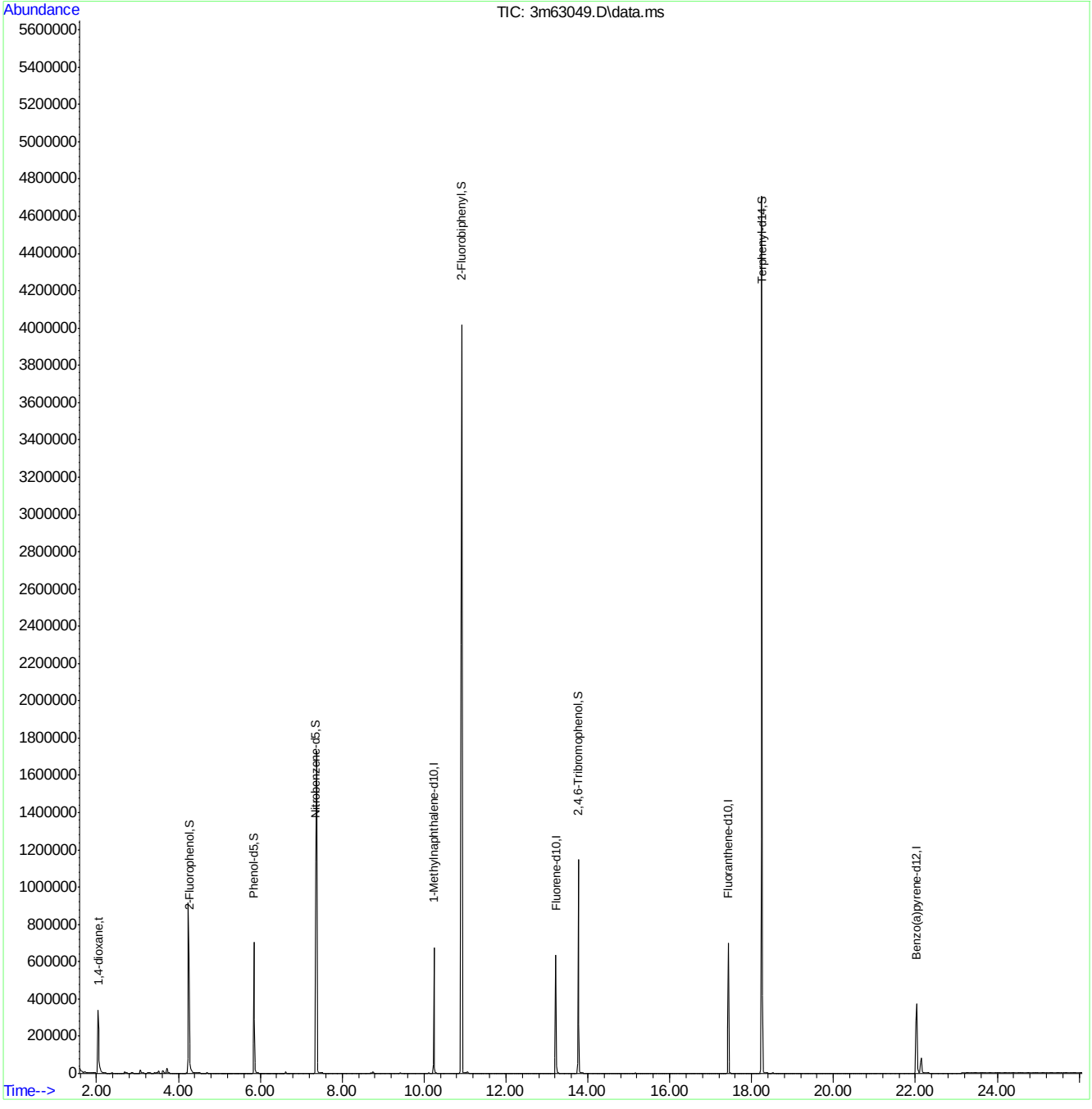
7.1.13

7

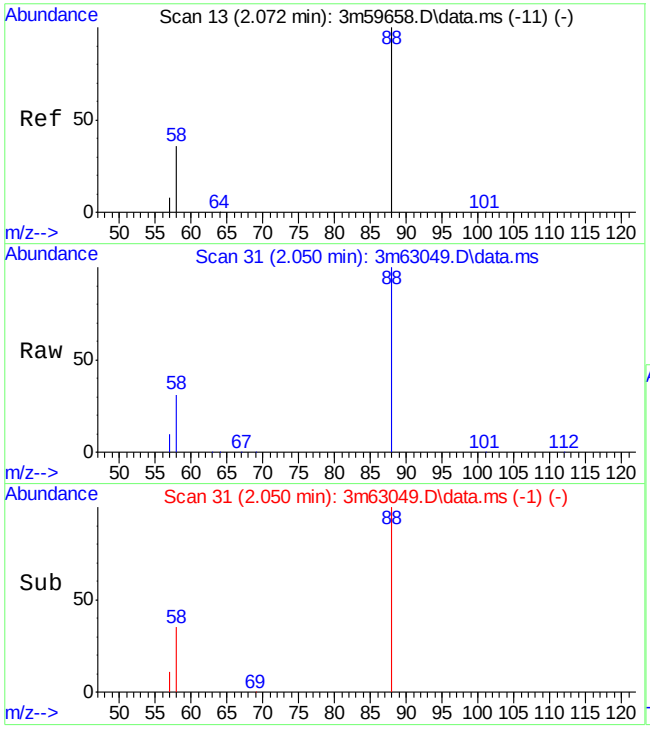
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2982\
Data File : 3m63049.D
Acq On : 19 Jul 2016 12:09 pm
Operator : hankc
Sample : jc24133-7
Misc : op95633a,e3m2982,925
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jul 19 15:36:44 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2975SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon Jul 18 15:41:37 2016
Response via : Initial Calibration



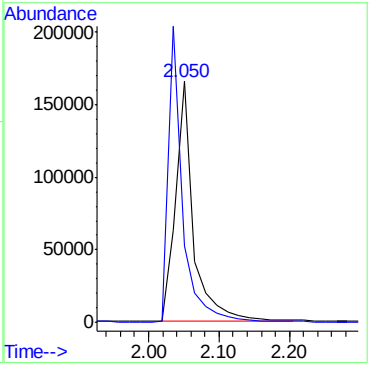
M3M2975SIM.M Tue Jul 19 15:36:53 2016 RPT1 Page: 2



#2
1,4-dioxane
Concen: 15.03 ppm
RT: 2.050 min Scan# 31
Delta R.T. -0.006 min
Lab File: 3m63049.D
Acq: 19 Jul 2016 12:09 pm

Tgt Ion: 88 Resp: 291342

Ion	Ratio	Lower	Upper
88	100		
58	31.3	69.2	109.2#



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2979\
Data File : 3m62992.D
Acq On : 15 Jul 2016 10:42 pm
Operator : juliusj
Sample : op95600a-mb1
Misc : op95600a,e3m2979,1000
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 17 14:37:07 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	10.200	150	210200	4.00	ppm	-0.10
14) Fluorene-d10	13.181	176	314544	4.00	ppm	-0.09
21) Fluoranthene-d10	17.402	212	508478	4.00	ppm	-0.08
31) Benzo(a)pyrene-d12	21.995	264	407484	4.00	ppm	-0.08
System Monitoring Compounds						
3) 2-Fluorophenol	4.229	112	808866	27.65	ppm	-0.08
Spiked Amount 50.000			Recovery = 55.30%			
4) Phenol-d5	5.819	99	772591	17.86	ppm	-0.10
Spiked Amount 50.000			Recovery = 35.72%			
7) Nitrobenzene-d5	7.335	82	2193036	53.98	ppm	-0.09
Spiked Amount 50.000			Recovery = 107.96%			
15) 2-Fluorobiphenyl	10.876	172	4052482	47.47	ppm	-0.10
Spiked Amount 50.000			Recovery = 94.94%			
20) 2,4,6-Tribromophenol	13.728	330	644070	48.94	ppm	-0.11
Spiked Amount 50.000			Recovery = 97.88%			
28) Terphenyl-d14	18.221	244	4295842	55.36	ppm	-0.09
Spiked Amount 50.000			Recovery = 110.72%			

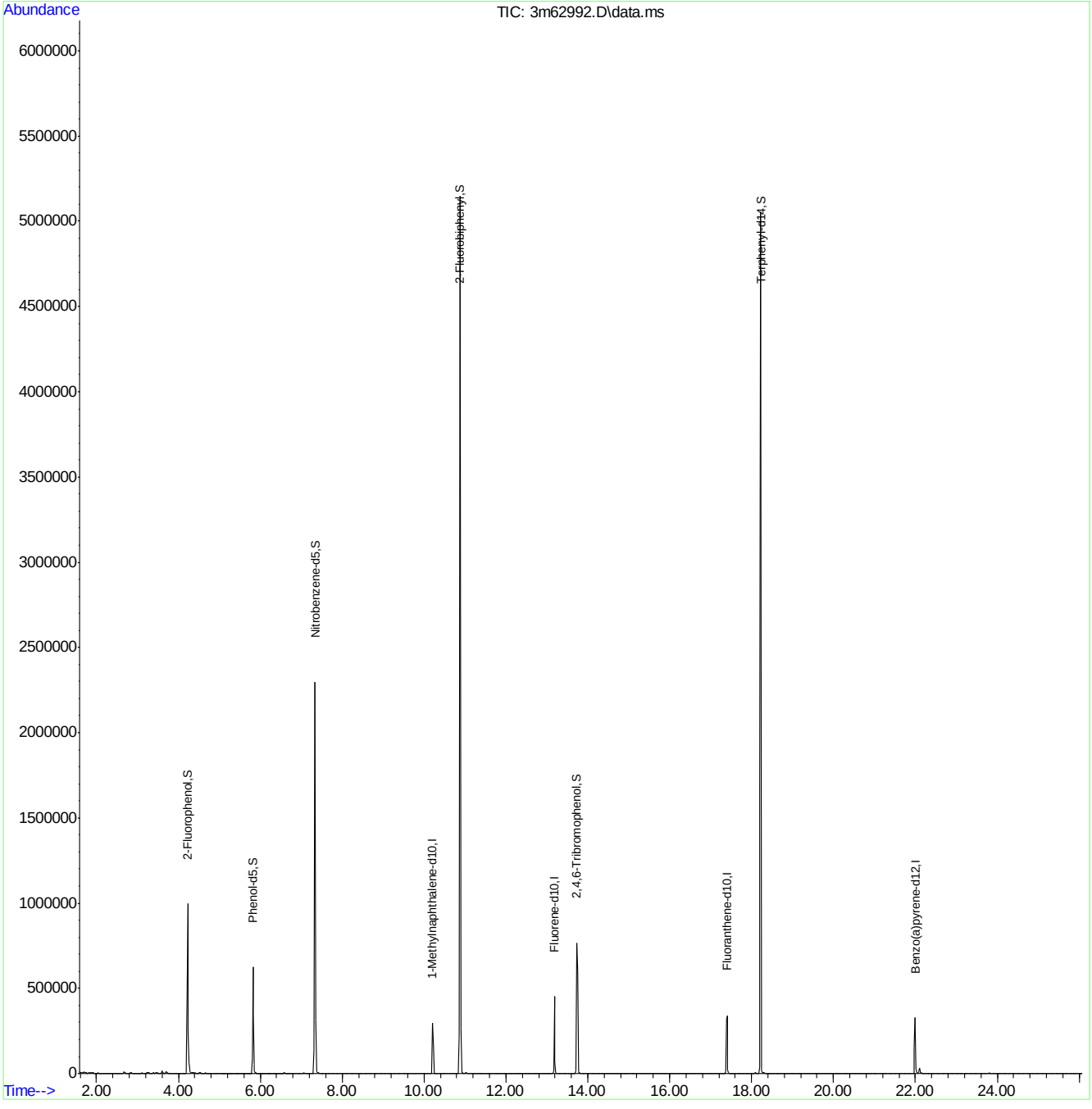
Target Compounds Qvalue

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2979\
Data File : 3m62992.D
Acq On : 15 Jul 2016 10:42 pm
Operator : juliusj
Sample : op95600a-mb1
Misc : op95600a,e3m2979,1000
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 17 14:37:07 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



M3M2975SIM.M Sun Jul 17 14:37:13 2016 RPT1 Page: 2

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2980\
Data File : 3m63013.D
Acq On : 18 Jul 2016 9:53 am
Operator : ashleyd
Sample : op95600a-mb1
Misc : op95600a,e3m2980,1000
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 18 15:43:09 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2975SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon Jul 18 15:41:37 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	10.199	150	288872	4.00	ppm	0.02
14) Fluorene-d10	13.162	176	434915	4.00	ppm	0.00
21) Fluoranthene-d10	17.371	212	666997	4.00	ppm	0.00
31) Benzo(a)pyrene-d12	21.976	264	546556	4.00	ppm	0.00
System Monitoring Compounds						
3) 2-Fluorophenol	4.214	112	1104234	27.46	ppm	-0.04
Spiked Amount 50.000			Recovery = 54.92%			
4) Phenol-d5	5.806	99	1078440	18.14	ppm	-0.04
Spiked Amount 50.000			Recovery = 36.28%			
7) Nitrobenzene-d5	7.316	82	2699607	48.35	ppm	-0.02
Spiked Amount 50.000			Recovery = 96.70%			
15) 2-Fluorobiphenyl	10.856	172	4707572	39.88	ppm	-0.03
Spiked Amount 50.000			Recovery = 79.76%			
20) 2,4,6-Tribromophenol	13.709	330	815442	44.81	ppm	-0.01
Spiked Amount 50.000			Recovery = 89.62%			
28) Terphenyl-d14	18.205	244	5549578	54.52	ppm	0.00
Spiked Amount 50.000			Recovery = 109.04%			
Target Compounds						Qvalue

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

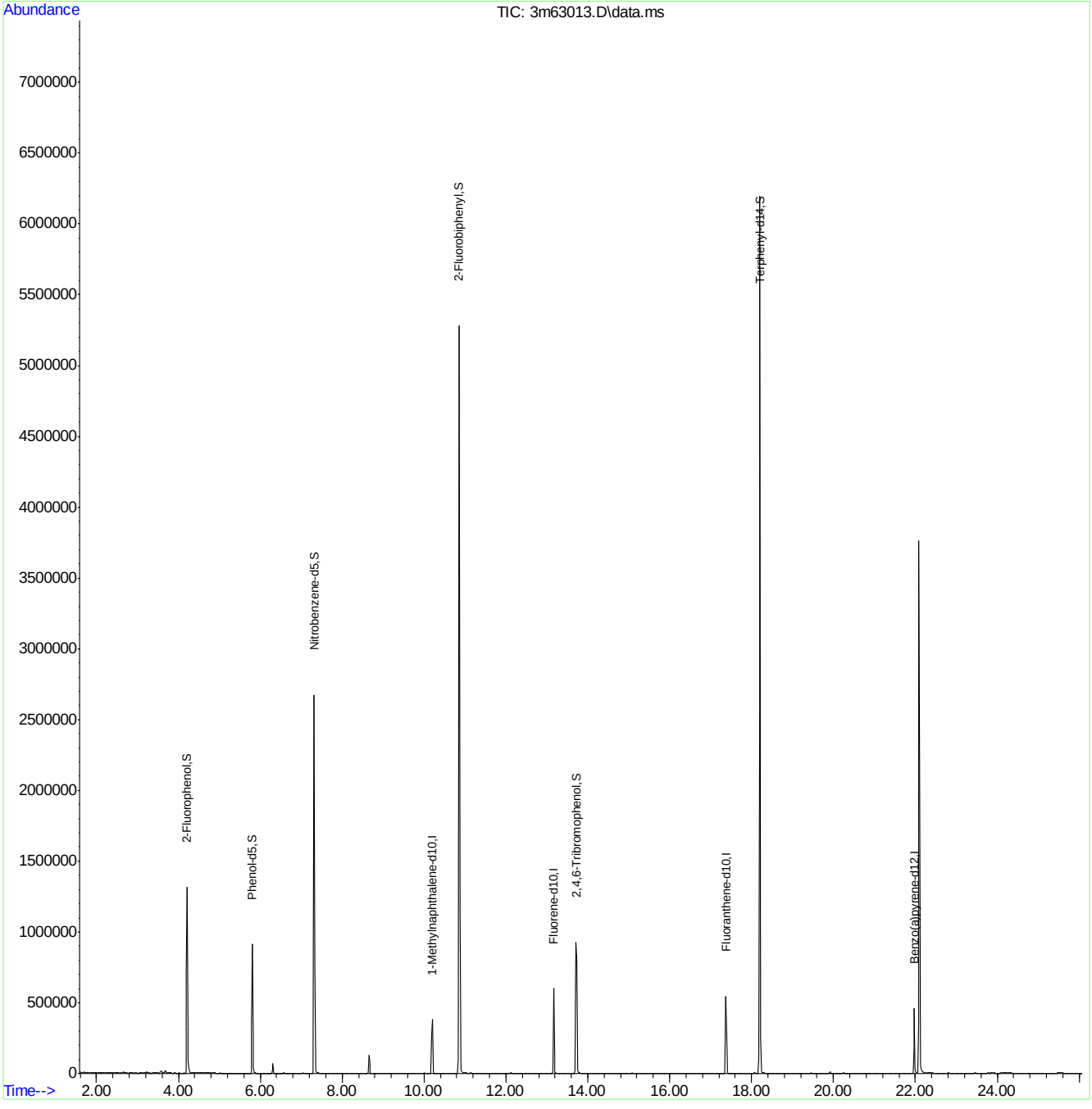
7.2.2

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2980\
Data File : 3m63013.D
Acq On : 18 Jul 2016 9:53 am
Operator : ashleyd
Sample : op95600a-mb1
Misc : op95600a,e3m2980,1000
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 18 15:43:09 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2975SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon Jul 18 15:41:37 2016
Response via : Initial Calibration



M3M2975SIM.M Mon Jul 18 15:43:14 2016 RPT1 Page: 2

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E5P1518\
Data File : 5p29759.D
Acq On : 18 Jul 2016 11:42 am
Operator : ashleyn
Sample : op95600a-mb1
Misc : op95600a,e5p1518,1000
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jul 18 12:45:00 2016
Quant Method : C:\MSDCHEM\1\METHODS\M5P1496.M
Quant Title : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
QLast Update : Fri Jul 15 20:51:24 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.876	152	254323	40.00	ppm	-0.02
24) Naphthalene-d8	6.083	136	977976	40.00	ppm	-0.02
47) Acenaphthene-d10	7.798	164	501458	40.00	ppm	-0.02
69) Phenanthrene-d10	9.342	188	810869	40.00	ppm	-0.02
83) Chrysene-d12	12.916	240	652445	40.00	ppm	-0.03
91) Perylene-d12	14.973	264	577300	40.00	ppm	-0.04
101) 1,4-Dichlorobenzene-d4a	4.876	152	254323	40.00	ppm	-0.02
103) Acenaphthene-d10a	7.798	164	501458	40.00	ppm	-0.02
105) Chrysene-d12a	12.916	240	652445	40.00	ppm	-0.03
107) Phenanthrene-d10a	9.342	188	810869	40.00	ppm	-0.02
109) Naphthalene-d8a	6.083	136	977976	40.00	ppm	-0.02
System Monitoring Compounds						
5) 2-Fluorophenol	3.744	112	171597	22.17	ppm	0.00
Spiked Amount 50.000			Recovery = 44.34%			
8) Phenol-d5	4.588	99	143113	15.22	ppm	0.03
Spiked Amount 50.000			Recovery = 30.44%			
25) Nitrobenzene-d5	5.400	82	323925	45.52	ppm	-0.02
Spiked Amount 50.000			Recovery = 91.04%			
51) 2-Fluorobiphenyl	7.136	172	697030	51.94	ppm	-0.02
Spiked Amount 50.000			Recovery = 103.88%			
73) 2,4,6-Tribromophenol	8.589	330	89061	51.64	ppm	-0.02
Spiked Amount 50.000			Recovery = 103.28%			
85) Terphenyl-d14	11.394	244	667989	53.74	ppm	-0.04
Spiked Amount 50.000			Recovery = 107.48%			

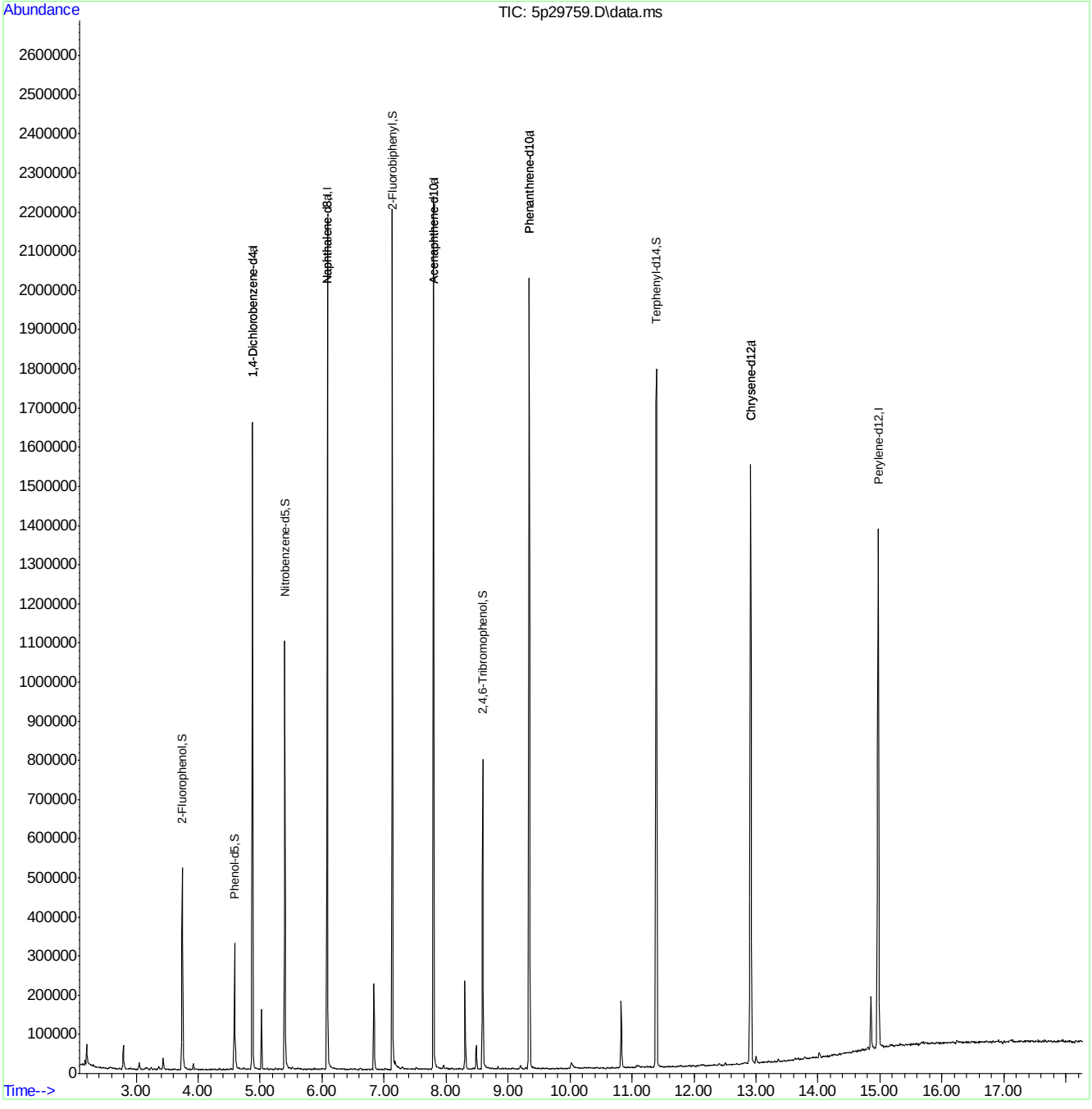
Target Compounds Qvalue

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E5P1518\
Data File : 5p29759.D
Acq On : 18 Jul 2016 11:42 am
Operator : ashleyn
Sample : op95600a-mb1
Misc : op95600a,e5p1518,1000
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jul 18 12:45:00 2016
Quant Method : C:\MSDCHEM\1\METHODS\M5P1496.M
Quant Title : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
QLast Update : Fri Jul 15 20:51:24 2016
Response via : Initial Calibration



M5P1496.M Mon Jul 18 12:45:08 2016 RPT1 Page: 2

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2982\
Data File : 3m63045.D
Acq On : 19 Jul 2016 9:57 am
Operator : hankc
Sample : op95633a-mb1
Misc : op95633a,e3m2982,1000
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 19 15:35:05 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2975SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon Jul 18 15:41:37 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1-Methylnaphthalene-d10	10.240	150	363245	4.00 ppm	0.06
14) Fluorene-d10	13.219	176	467540	4.00 ppm	0.06
21) Fluoranthene-d10	17.433	212	740701	4.00 ppm	0.06
31) Benzo(a)pyrene-d12	22.033	264	596917	4.00 ppm	0.06
System Monitoring Compounds					
3) 2-Fluorophenol	4.245	112	1081621	21.39 ppm	-0.01
Spiked Amount 50.000			Recovery	= 42.78%	
4) Phenol-d5	5.843	99	1118609	14.96 ppm	0.00
Spiked Amount 50.000			Recovery	= 29.92%	
7) Nitrobenzene-d5	7.353	82	2259954	32.19 ppm	0.01
Spiked Amount 50.000			Recovery	= 64.38%	
15) 2-Fluorobiphenyl	10.917	172	4613134	36.36 ppm	0.03
Spiked Amount 50.000			Recovery	= 72.72%	
20) 2,4,6-Tribromophenol	13.765	330	713282	36.46 ppm	0.04
Spiked Amount 50.000			Recovery	= 72.92%	
28) Terphenyl-d14	18.251	244	4708903	41.66 ppm	0.05
Spiked Amount 50.000			Recovery	= 83.32%	

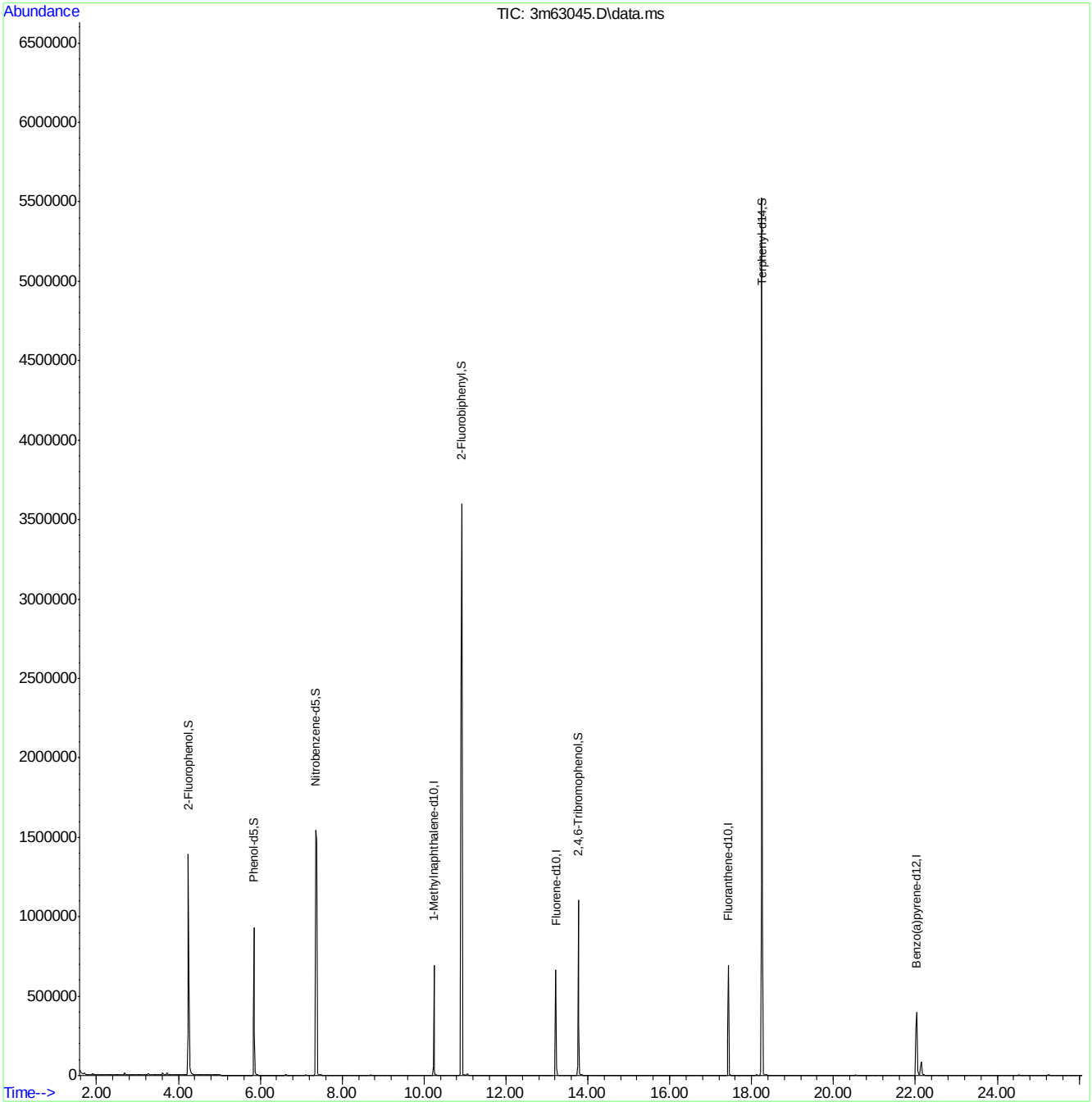
Target Compounds Qvalue

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2982\
Data File : 3m63045.D
Acq On : 19 Jul 2016 9:57 am
Operator : hankc
Sample : op95633a-mb1
Misc : op95633a,e3m2982,1000
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 19 15:35:05 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2975SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon Jul 18 15:41:37 2016
Response via : Initial Calibration



SGS ACCUTEST JC24133

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3E3739\
Data File : 3E85325.D
Acq On : 19 Jul 2016 4:34 pm
Operator : ashleyn
Sample : op95633a-mb1
Misc : op95633a,e3e3739,1000
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Jul 19 17:03:53 2016
Quant Method : C:\msdchem\1\METHODS\M3E3699.M
Quant Title : Semi Volatile GC/MS,zb-5msplus 30m x .25mm x .25MFri Jul 15 16:43:26 2016
QLast Update : Fri Jul 15 16:43:26 2016
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.036	152	104209	40.00 ppm	0.05
24) Naphthalene-d8	6.191	136	390680	40.00 ppm	0.06
47) Acenaphthene-d10	8.352	164	246534	40.00 ppm	0.07
69) Phenanthrene-d10	10.582	188	441364	40.00 ppm	0.09
83) Chrysene-d12	14.829	240	437922	40.00 ppm	0.10
92) Perylene-d12	17.011	264	371146	40.00 ppm	0.12
102) 1,4-Dichlorobenzene-d4a	5.036	152	104209	40.00 ppm	0.05
104) Acenaphthene-d10a	8.352	164	246534	40.00 ppm	0.07
106) Phenanthrene-d10a	10.582	188	441364	40.00 ppm	0.09
108) Chrysene-d12a	14.829	240	437922	40.00 ppm	0.10
110) Naphthalene-d8a	6.191	136	390680	40.00 ppm	0.06

System Monitoring Compounds					
5) 2-Fluorophenol	4.068	112	62786	19.44 ppm	0.07
Spiked Amount 50.000			Recovery	= 38.88%	
8) Phenol-d5	4.784	99	55082	14.03 ppm	0.09
Spiked Amount 50.000			Recovery	= 28.06%	
25) Nitrobenzene-d5	5.507	82	126406	42.42 ppm	0.06
Spiked Amount 50.000			Recovery	= 84.84%	
51) 2-Fluorobiphenyl	7.432	172	303623	37.24 ppm	0.06
Spiked Amount 50.000			Recovery	= 74.48%	
73) 2,4,6-Tribromophenol	9.523	330	45098	31.58 ppm	0.08
Spiked Amount 50.000			Recovery	= 63.16%	
85) Terphenyl-d14	13.150	244	393483	42.68 ppm	0.07
Spiked Amount 50.000			Recovery	= 85.36%	

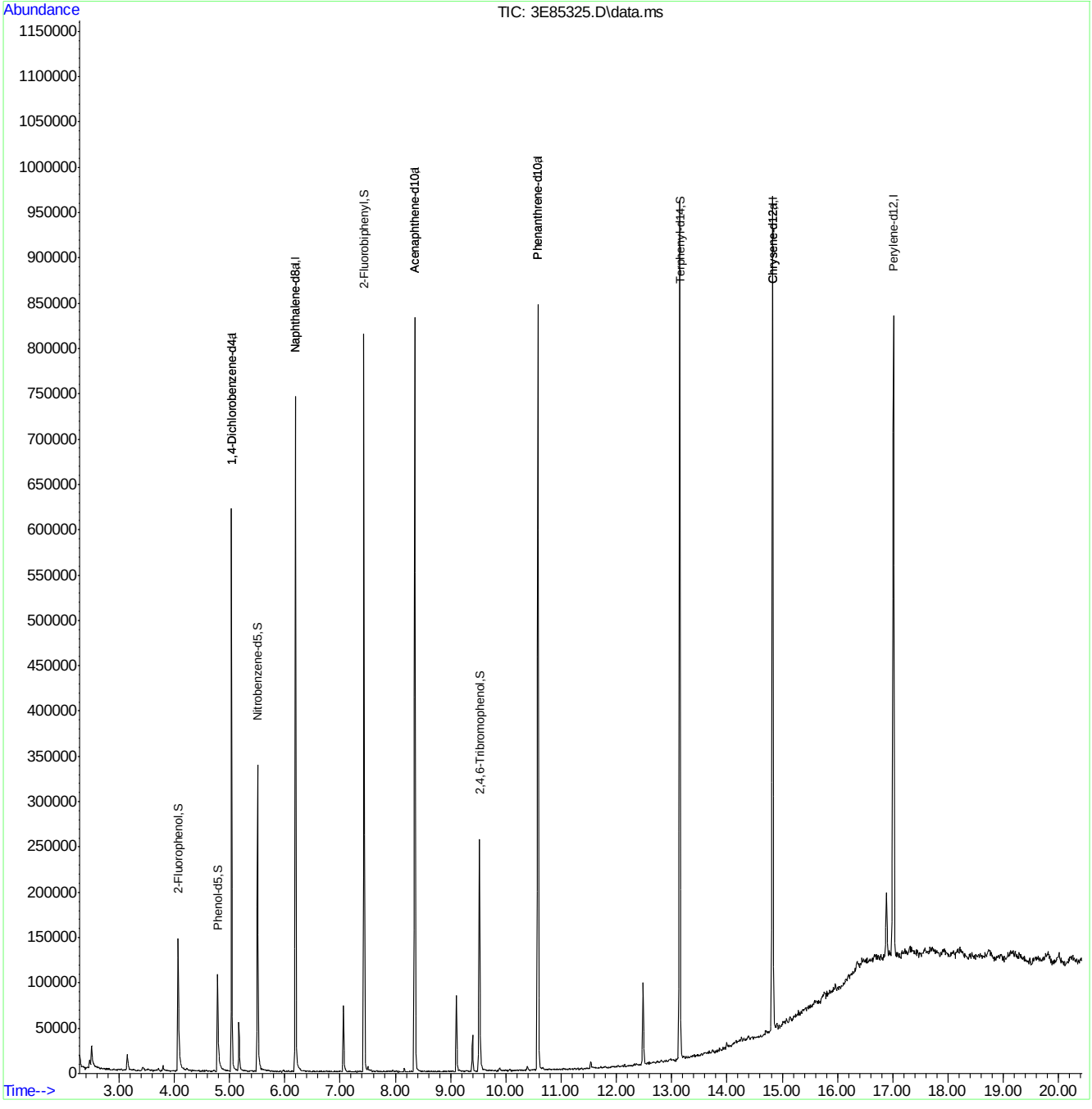
Target Compounds	Qvalue

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3E3739\
Data File : 3E85325.D
Acq On : 19 Jul 2016 4:34 pm
Operator : ashleyn
Sample : op95633a-mb1
Misc : op95633a,e3e3739,1000
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Jul 19 17:03:53 2016
Quant Method : C:\msdchem\1\METHODS\M3E3699.M
Quant Title : Semi Volatile GC/MS,zb-5msplus 30m x .25mm x .25MFri Jul 15 16:43:26 2016
QLast Update : Fri Jul 15 16:43:26 2016
Response via : Initial Calibration



M3E3699.M Tue Jul 19 17:04:00 2016 MS3E

SGS ACCUTEST JC24133

Manual Integrations APPROVED (compounds with "m" flag)
Nina Pandya
07/18/16 10:41

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2979\
Data File : 3m62993.D
Acq On : 15 Jul 2016 11:15 pm
Operator : juliusj
Sample : op95600a-bs12
Misc : op95600a,e3m2979,1000
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jul 17 14:37:49 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

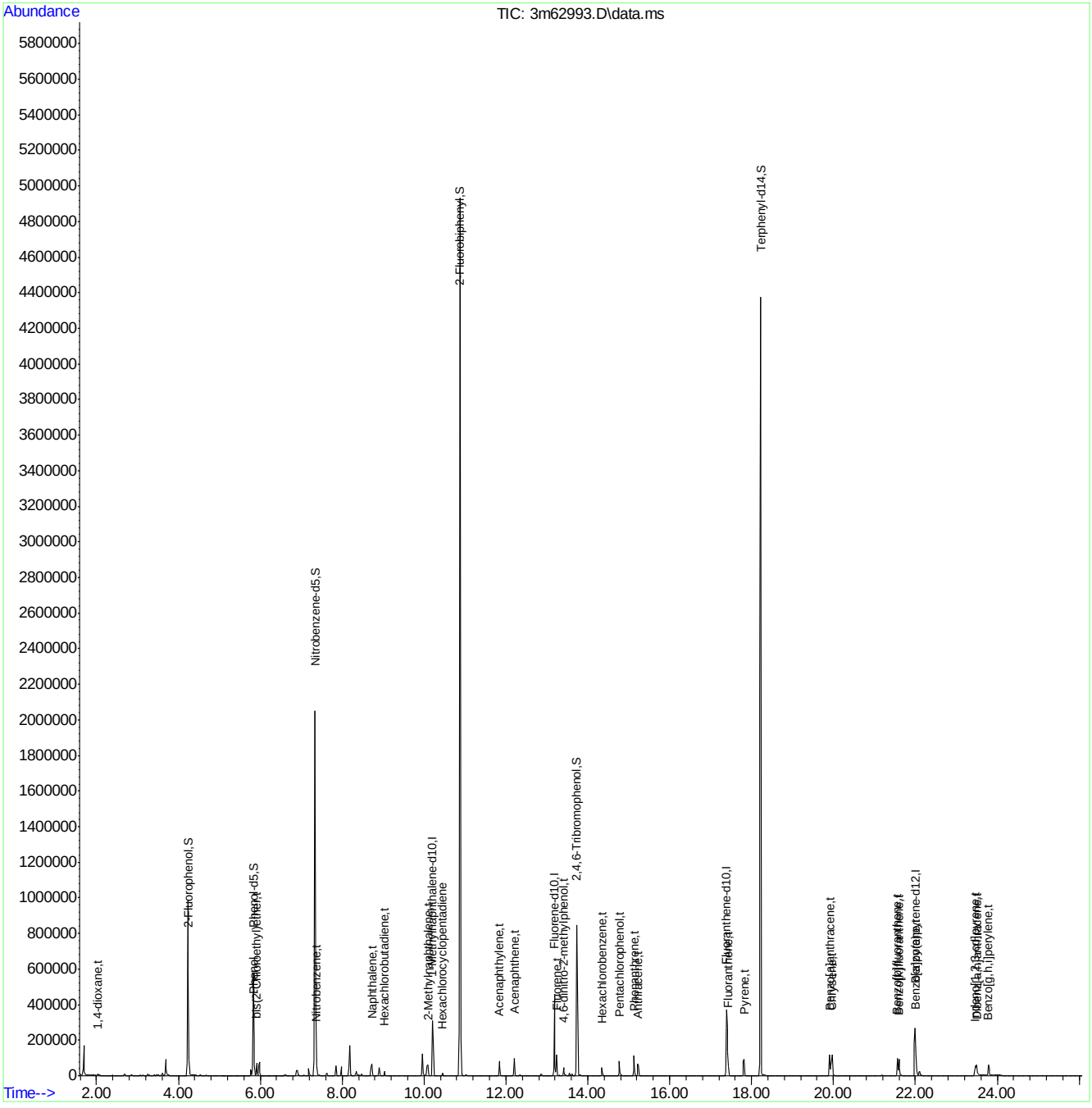
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	10.200	150	214293	4.00	ppm	-0.10
14) Fluorene-d10	13.181	176	320813	4.00	ppm	-0.09
21) Fluoranthene-d10	17.386	212	485048	4.00	ppm	-0.09
31) Benzo(a)pyrene-d12	21.995	264	380325	4.00	ppm	-0.08
System Monitoring Compounds						
3) 2-Fluorophenol	4.245	112	734040	24.61	ppm	-0.06
Spiked Amount 50.000			Recovery = 49.22%			
4) Phenol-d5	5.831	99	763630	17.31	ppm	-0.08
Spiked Amount 50.000			Recovery = 34.62%			
7) Nitrobenzene-d5	7.335	82	1999260	48.27	ppm	-0.09
Spiked Amount 50.000			Recovery = 96.54%			
15) 2-Fluorobiphenyl	10.876	172	3866870	44.41	ppm	-0.10
Spiked Amount 50.000			Recovery = 88.82%			
20) 2,4,6-Tribromophenol	13.728	330	607621	45.27	ppm	-0.11
Spiked Amount 50.000			Recovery = 90.54%			
28) Terphenyl-d14	18.221	244	4089815	55.25	ppm	-0.09
Spiked Amount 50.000			Recovery = 110.50%			
Target Compounds						Qvalue
2) 1,4-dioxane	2.035	88	6029	0.51	ppm	80
5) Phenol	5.843	94	96660	2.10	ppm #	77
6) bis(2-Chloroethyl)ether	5.915	93	35310	1.04	ppm	92
8) Nitrobenzene	7.372	77	46233	1.10	ppm #	56
9) Naphthalene	8.728	128	99452	0.79	ppm	93
10) Hexachlorobutadiene	9.029	225	17120	0.76	ppm	70
11) 2-Methylnaphthalene	10.097	141	50863	0.78	ppm	95
13) Hexachlorocyclopentadiene	10.446	237	10072	0.66	ppm	95
16) Acenaphthylene	11.838	152	102835	0.97	ppm	95
17) Acenaphthene	12.209	153	70165	1.01	ppm	76
18) 4,6-dinitro-2-methylph...	13.407	198	48538	4.40	ppm	89
19) Fluorene	13.238	166	80589	1.04	ppm	92
22) Hexachlorobenzene	14.341	284	25433	0.98	ppm	97
23) Pentachlorophenol	14.774	266	53998	5.05	ppm	100
24) Phenanthrene	15.130	178	113163	1.05	ppm	99
25) Anthracene	15.222	178	98351	0.97	ppm	100
26) Fluoranthene	17.417	202	131626	0.99	ppm	97
27) Pyrene	17.819	202	129828	1.04	ppm	89
29) Benzo[a]anthracene	19.905	228	105308	1.01	ppm	93
30) Chrysene	19.967	228	109354	0.99	ppm	86
32) Benzo[b]fluoranthene	21.563	252	103411m	0.84	ppm	
33) Benzo[k]fluoranthene	21.600	252	103841	0.93	ppm	93
34) Benzo[a]pyrene	22.014	252	106639	0.94	ppm	95
35) Indeno[1,2,3-cd]pyrene	23.463	276	93967	0.81	ppm	96
36) Dibenz[a,h]anthracene	23.500	278	76359	0.79	ppm	85
37) Benzo[g,h,i]perylene	23.782	276	86577	0.82	ppm	100

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2979\
Data File : 3m62993.D
Acq On : 15 Jul 2016 11:15 pm
Operator : juliusj
Sample : op95600a-bs12
Misc : op95600a,e3m2979,1000
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jul 17 14:37:49 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 JC24133

Manual Integration Approval Summary

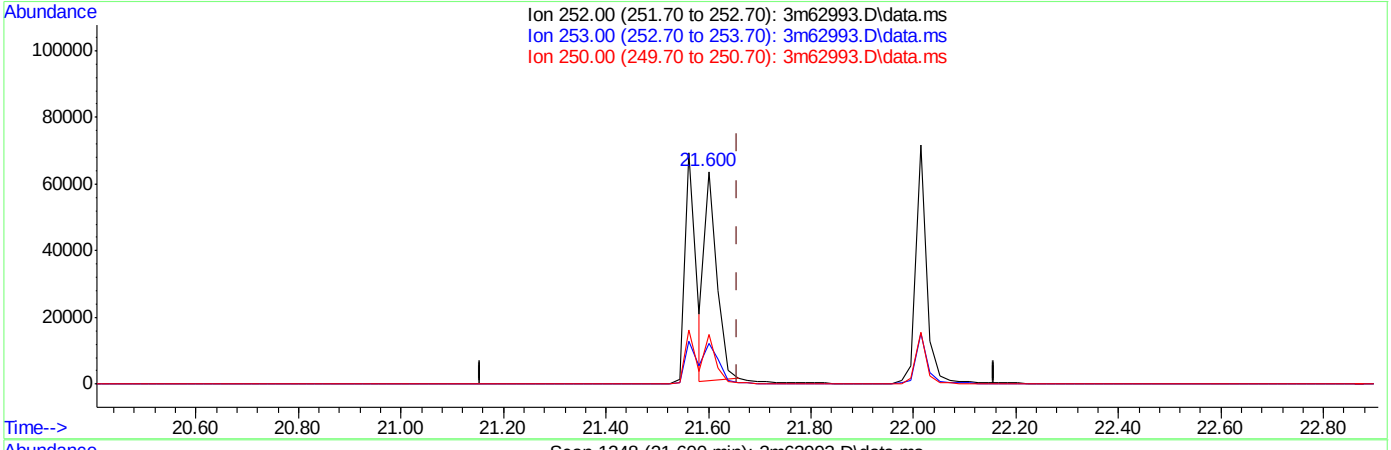
Sample Number:	OP95600A-BS12	**Method:**	SW846 8270D BY SIM
Lab FileID:	3M62993.D	**Analyst approved:**	07/17/16 14:56 Kristi Schollenberger
Injection Time:	07/15/16 23:15	**Supervisor approved:**	07/18/16 10:41 Nina Pandya

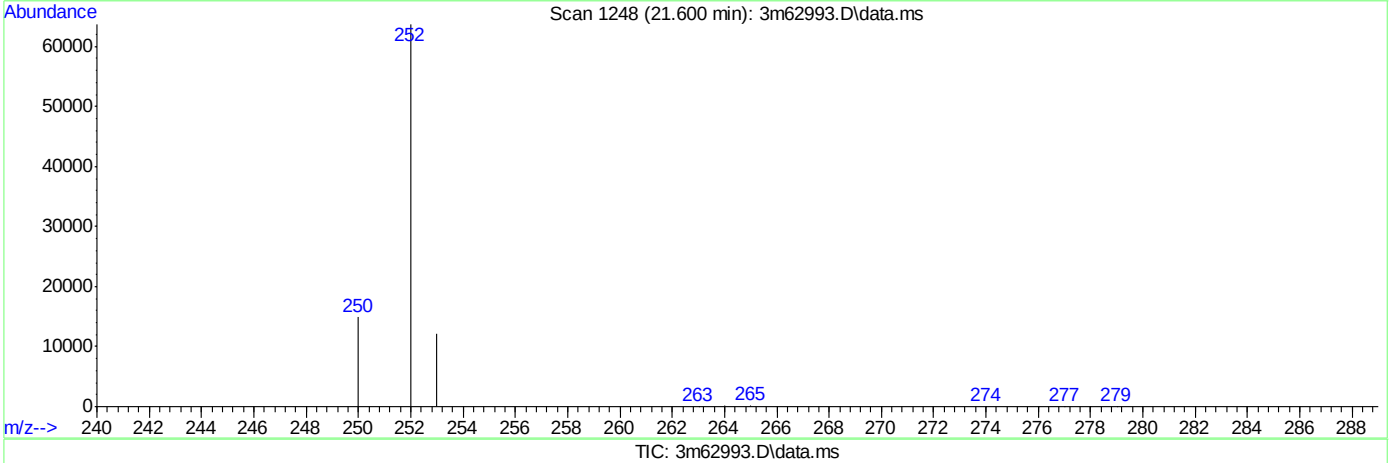
Parameter	CAS	Sig#	R.T. (min.)	Reason
Benzo(b)fluoranthene	205-99-2		21.56	Overlapping peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E3M2979\
Data File : 3m62993.D
Acq On : 15 Jul 2016 11:15 pm
Operator : juliusj
Sample : op95600a-bs12
Misc : op95600a,e3m2979,1000
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jul 15 23:39:52 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





TIC: 3m62993.D\data.ms

(32) Benzo[b]fluoranthene (t)

21.600min (-0.056) 0.84ppm

response 103841

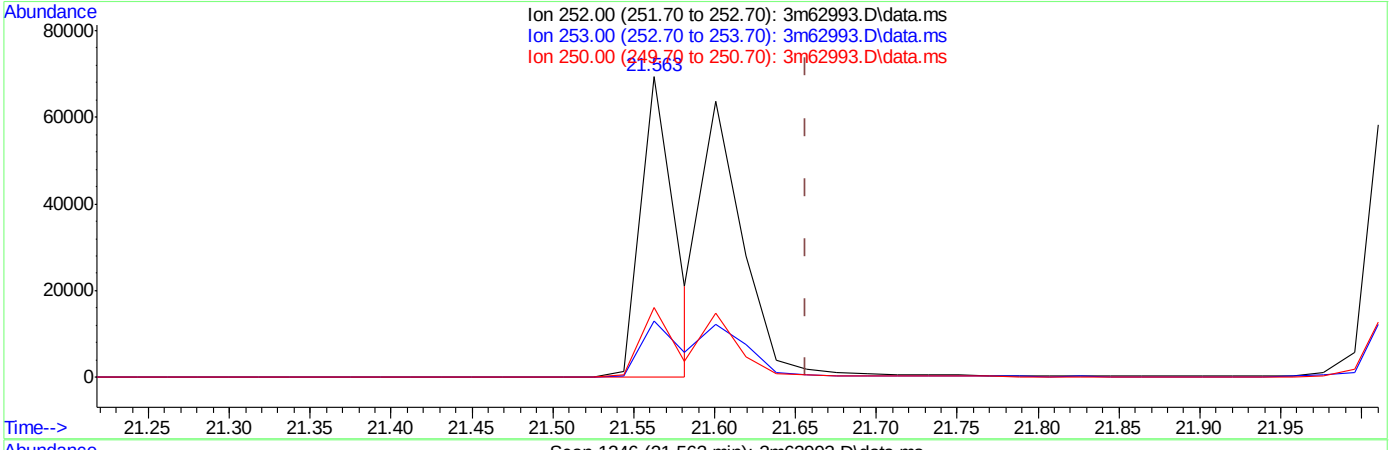
Ion	Exp%	Act%
252.00	100	100
253.00	22.20	17.26
250.00	21.80	24.43
0.00	0.00	0.00

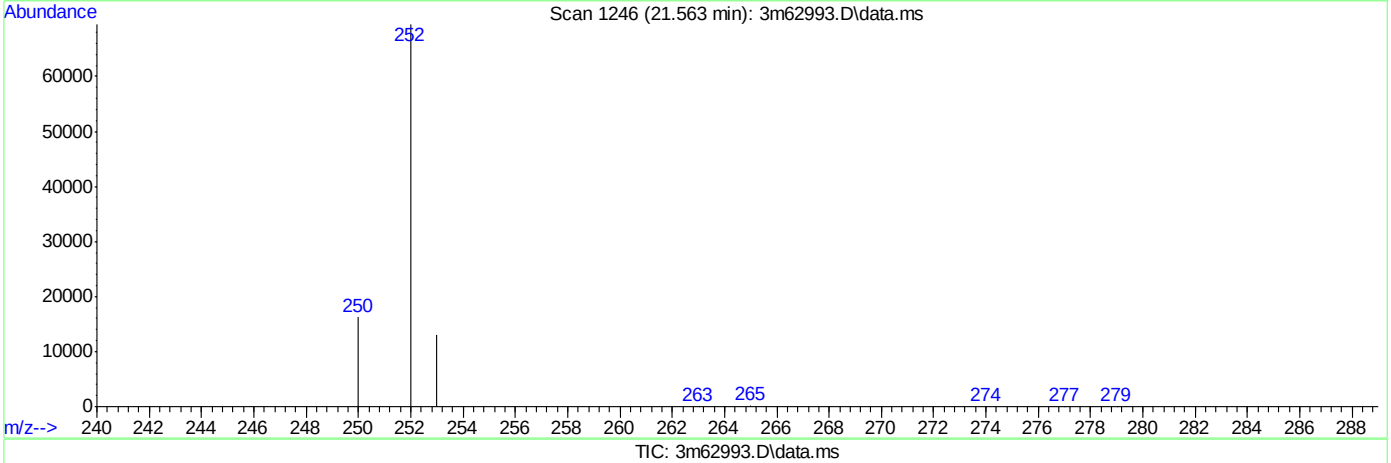
SGS ACCUTEST JC24133

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E3M2979\
Data File : 3m62993.D
Acq On : 15 Jul 2016 11:15 pm
Operator : juliusj
Sample : op95600a-bs12
Misc : op95600a,e3m2979,1000
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jul 15 23:39:52 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





TIC: 3m62993.D\data.ms

(32) Benzo[b]fluoranthene (t)

21.563min (-0.094) 0.84ppm m

response 103411

Ion	Exp%	Act%
252.00	100	100
253.00	22.20	18.76
250.00	21.80	23.34
0.00	0.00	0.00

SGS ACCUTEST JC24133

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2980\
Data File : 3m63014.D
Acq On : 18 Jul 2016 10:26 am
Operator : ashleyd
Sample : op95600a-bs12
Misc : op95600a,e3m2980,1000
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jul 18 15:43:31 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2975SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon Jul 18 15:41:37 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	10.200	150	284504	4.00	ppm	0.02
14) Fluorene-d10	13.162	176	427886	4.00	ppm	0.00
21) Fluoranthene-d10	17.371	212	658804	4.00	ppm	0.00
31) Benzo(a)pyrene-d12	21.976	264	526942	4.00	ppm	0.00
System Monitoring Compounds						
3) 2-Fluorophenol	4.229	112	1040177	26.27	ppm	-0.03
Spiked Amount 50.000			Recovery = 52.54%			
4) Phenol-d5	5.807	99	1073185	18.33	ppm	-0.04
Spiked Amount 50.000			Recovery = 36.66%			
7) Nitrobenzene-d5	7.316	82	2466664	44.86	ppm	-0.02
Spiked Amount 50.000			Recovery = 89.72%			
15) 2-Fluorobiphenyl	10.856	172	4496931	38.72	ppm	-0.03
Spiked Amount 50.000			Recovery = 77.44%			
20) 2,4,6-Tribromophenol	13.709	330	762502	42.59	ppm	-0.01
Spiked Amount 50.000			Recovery = 85.18%			
28) Terphenyl-d14	18.205	244	5348512	53.20	ppm	0.00
Spiked Amount 50.000			Recovery = 106.40%			
Target Compounds						Qvalue
2) 1,4-dioxane	2.020	88	8327	0.53	ppm #	79
5) Phenol	5.831	94	136431	2.23	ppm #	56
6) bis(2-Chloroethyl)ether	5.903	93	48739	1.08	ppm #	40
8) Nitrobenzene	7.354	77	50736	0.91	ppm	61
9) Naphthalene	8.709	128	141879	0.85	ppm	94
10) Hexachlorobutadiene	9.011	225	20978	0.70	ppm	66
11) 2-Methylnaphthalene	10.076	141	75198	0.86	ppm	94
13) Hexachlorocyclopentadiene	10.425	237	10149	0.54	ppm	96
16) Acenaphthylene	11.823	152	141460	1.00	ppm	97
17) Acenaphthene	12.178	153	94584	1.02	ppm	94
18) 4,6-dinitro-2-methylph...	13.407	198	59899	4.12	ppm #	33
19) Fluorene	13.219	166	112363	1.09	ppm	89
22) Hexachlorobenzene	14.326	284	32611	0.92	ppm	97
23) Pentachlorophenol	14.759	266	71667	4.95	ppm	95
24) Phenanthrene	15.114	178	152042	1.04	ppm	97
25) Anthracene	15.207	178	135097	0.98	ppm	97
26) Fluoranthene	17.402	202	181559	1.01	ppm	99
27) Pyrene	17.788	202	178054	1.05	ppm	98
29) Benzo[a]anthracene	19.889	228	147394	1.04	ppm	100
30) Chrysene	19.951	228	148872	1.00	ppm	99
32) Benzo[b]fluoranthene	21.544	252	136691	0.80	ppm	95
33) Benzo[k]fluoranthene	21.581	252	141954	0.91	ppm	94
34) Benzo[a]pyrene	21.995	252	136684	0.87	ppm	93
35) Indeno[1,2,3-cd]pyrene	23.444	276	132337	0.82	ppm	96
36) Dibenz[a,h]anthracene	23.481	278	107428	0.81	ppm	84
37) Benzo[g,h,i]perylene	23.763	276	118995	0.82	ppm	100

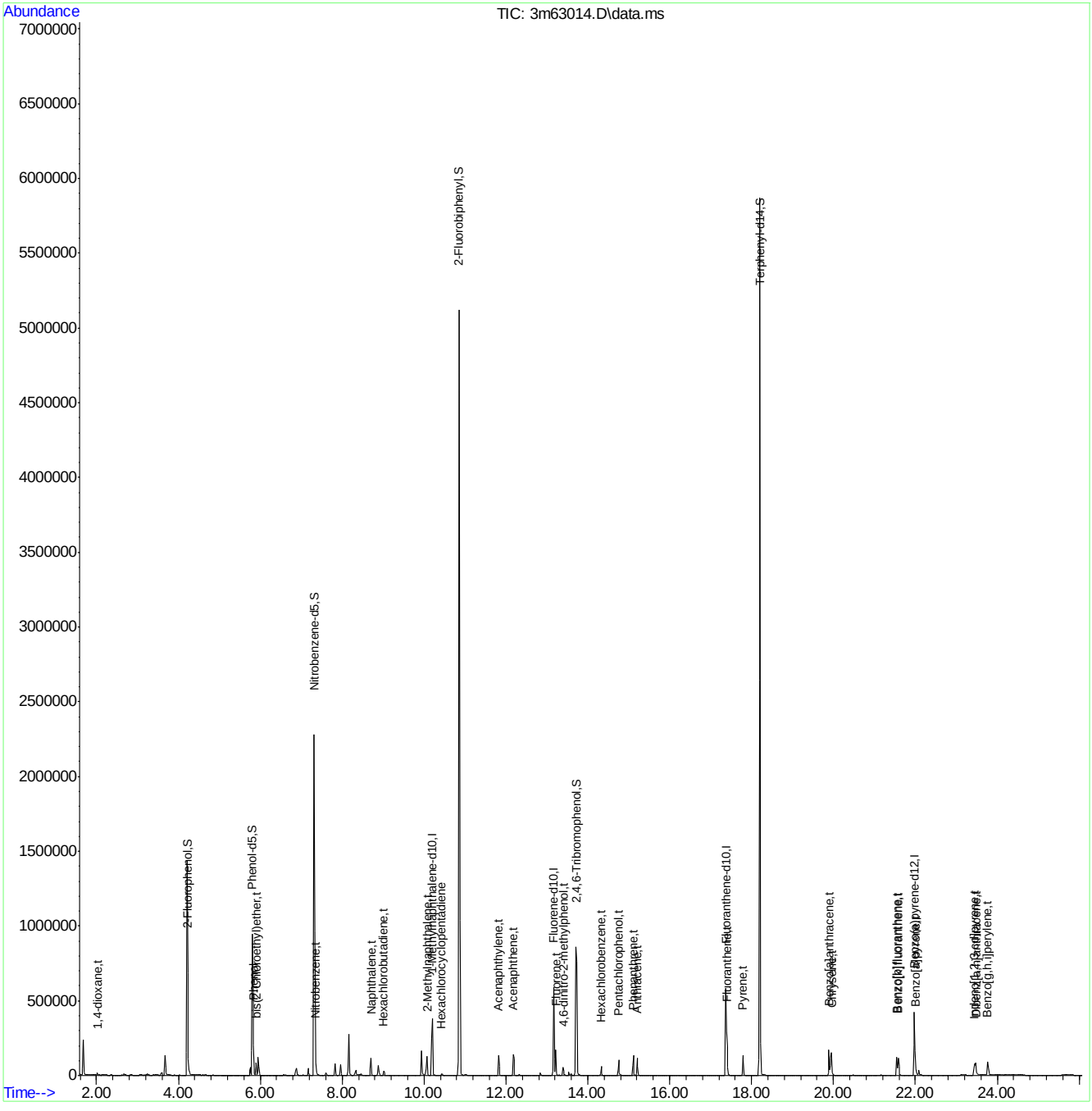
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC24133

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2980\
Data File : 3m63014.D
Acq On : 18 Jul 2016 10:26 am
Operator : ashleyd
Sample : op95600a-bs12
Misc : op95600a,e3m2980,1000
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jul 18 15:43:31 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2975SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon Jul 18 15:41:37 2016
Response via : Initial Calibration



SGS ACCUTEST JC24133

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2982\
Data File : 3m63046.D
Acq On : 19 Jul 2016 10:30 am
Operator : hankc
Sample : op95633a-bs12
Misc : op95633a,e3m2982,1000
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jul 19 15:35:19 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2975SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon Jul 18 15:41:37 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	10.240	150	360628	4.00	ppm	0.06
14) Fluorene-d10	13.219	176	478766	4.00	ppm	0.06
21) Fluoranthene-d10	17.432	212	723675	4.00	ppm	0.06
31) Benzo(a)pyrene-d12	22.033	264	578707	4.00	ppm	0.06
System Monitoring Compounds						
3) 2-Fluorophenol	4.260	112	1008775	20.10	ppm	0.00
Spiked Amount 50.000			Recovery = 40.20%			
4) Phenol-d5	5.843	99	1067840	14.39	ppm	0.00
Spiked Amount 50.000			Recovery = 28.78%			
7) Nitrobenzene-d5	7.353	82	2102623	30.17	ppm	0.01
Spiked Amount 50.000			Recovery = 60.34%			
15) 2-Fluorobiphenyl	10.917	172	4293353	33.04	ppm	0.03
Spiked Amount 50.000			Recovery = 66.08%			
20) 2,4,6-Tribromophenol	13.765	330	725998	36.24	ppm	0.04
Spiked Amount 50.000			Recovery = 72.48%			
28) Terphenyl-d14	18.251	244	4946455	44.79	ppm	0.05
Spiked Amount 50.000			Recovery = 89.58%			
Target Compounds						Qvalue
2) 1,4-dioxane	2.050	88	7609	0.38	ppm #	41
5) Phenol	5.867	94	135863	1.75	ppm #	55
6) bis(2-Chloroethyl)ether	5.939	93	39671	0.69	ppm #	64
8) Nitrobenzene	7.391	77	46290	0.66	ppm	81
9) Naphthalene	8.747	128	127161	0.60	ppm	99
10) Hexachlorobutadiene	9.067	225	19893	0.53	ppm	93
11) 2-Methylnaphthalene	10.117	141	71145	0.64	ppm	78
13) Hexachlorocyclopentadiene	10.487	237	7429	0.39	ppm #	76
16) Acenaphthylene	11.885	152	119941	0.76	ppm	93
17) Acenaphthene	12.240	153	80833	0.78	ppm	80
18) 4,6-dinitro-2-methylph...	13.445	198	59359	3.73	ppm #	63
19) Fluorene	13.275	166	91668	0.79	ppm	99
22) Hexachlorobenzene	14.372	284	28530	0.74	ppm	87
23) Pentachlorophenol	14.805	266	73895	4.68	ppm	91
24) Phenanthrene	15.160	178	141778	0.89	ppm	96
25) Anthracene	15.269	178	113427	0.75	ppm	92
26) Fluoranthene	17.463	202	164360	0.83	ppm	94
27) Pyrene	17.850	202	164246	0.88	ppm	94
29) Benzo[a]anthracene	19.936	228	124676	0.80	ppm	90
30) Chrysene	19.997	228	139635	0.85	ppm	93
32) Benzo[b]fluoranthene	21.600	252	125498	0.67	ppm	97
33) Benzo[k]fluoranthene	21.638	252	123248	0.72	ppm	99
34) Benzo[a]pyrene	22.052	252	104135	0.60	ppm	96
35) Indeno[1,2,3-cd]pyrene	23.500	276	103195	0.59	ppm	97
36) Dibenz[a,h]anthracene	23.538	278	86069	0.59	ppm	91
37) Benzo[g,h,i]perylene	23.839	276	89570	0.56	ppm	98

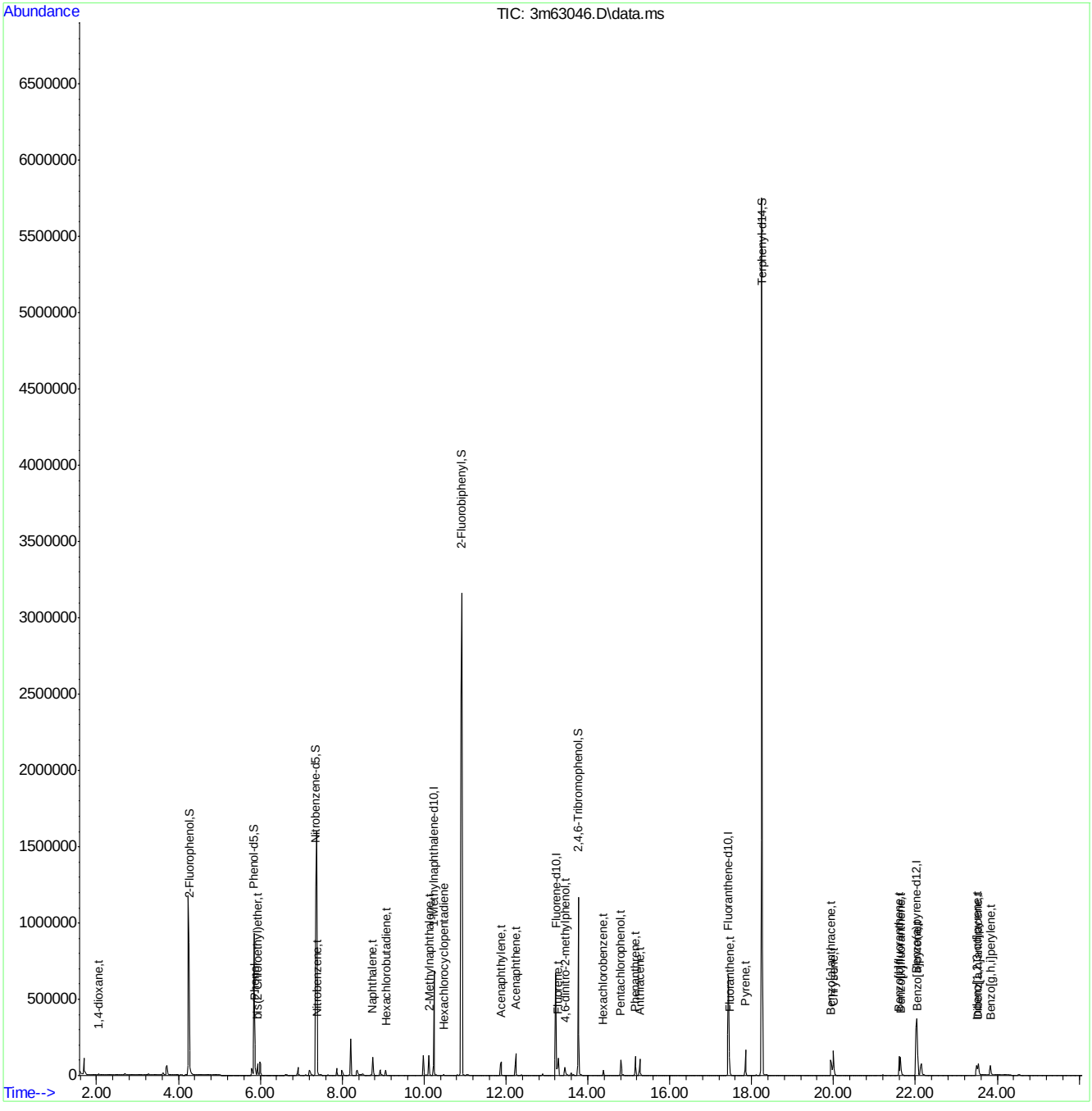
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC24133

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2982\
Data File : 3m63046.D
Acq On : 19 Jul 2016 10:30 am
Operator : hankc
Sample : op95633a-bs12
Misc : op95633a,e3m2982,1000
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jul 19 15:35:19 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2975SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon Jul 18 15:41:37 2016
Response via : Initial Calibration



SGS ACCUTEST JC24133

Manual Integrations APPROVED (compounds with "m" flag)
Nina Pandya
07/18/16 16:20

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2980\
Data File : 3m63015.D
Acq On : 18 Jul 2016 10:58 am
Operator : ashleyd
Sample : op95600a-ms
Misc : op95600a,e3m2980,500
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jul 18 15:44:14 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2975SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon Jul 18 15:41:37 2016
Response via : Initial Calibration

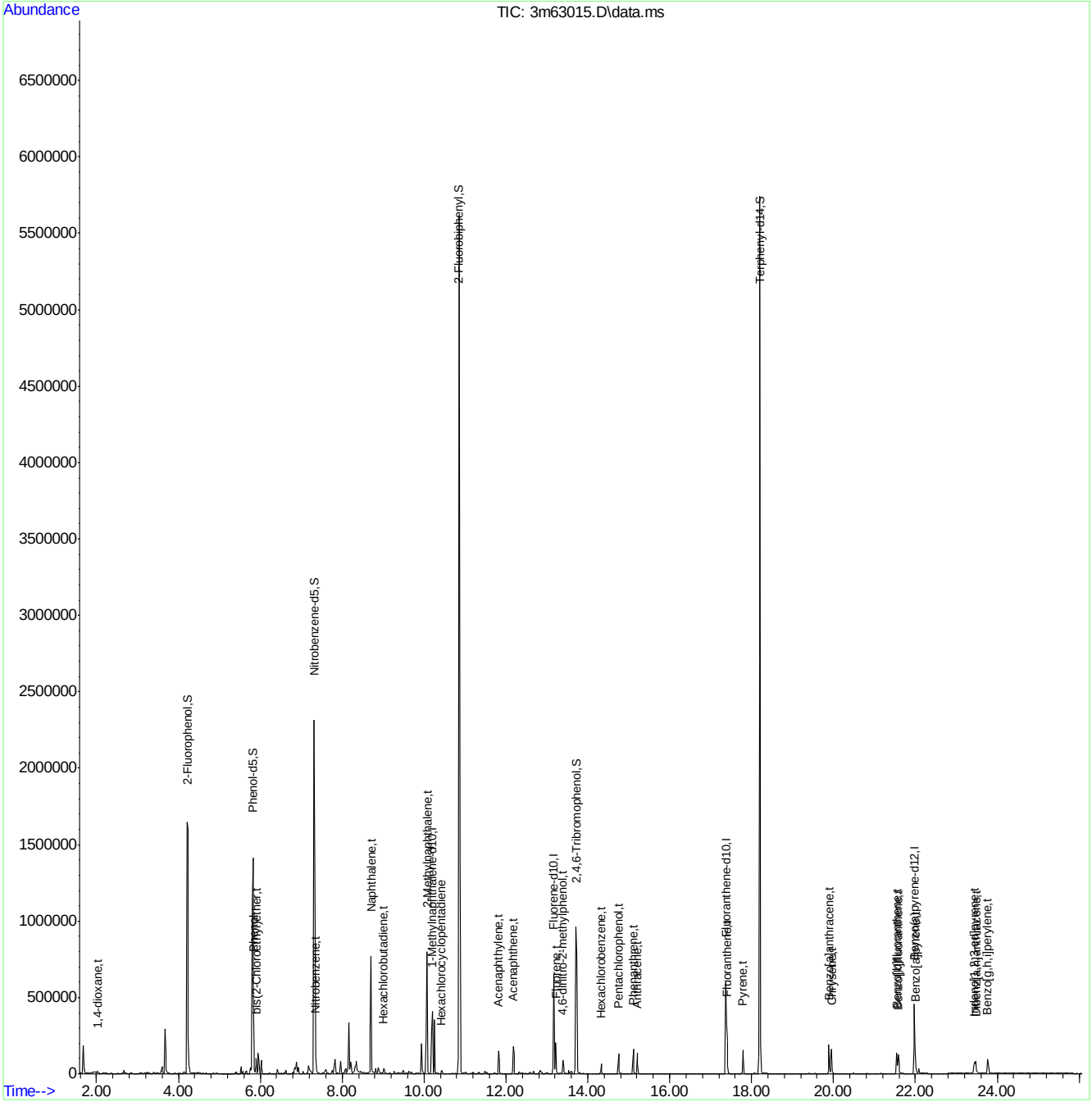
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	10.199	150	307017	4.00	ppm	0.02
14) Fluorene-d10	13.162	176	462116	4.00	ppm	0.00
21) Fluoranthene-d10	17.371	212	694305	4.00	ppm	0.00
31) Benzo(a)pyrene-d12	21.976	264	534623	4.00	ppm	0.00
System Monitoring Compounds						
3) 2-Fluorophenol	4.229	112	1559105	36.49	ppm	-0.03
Spiked Amount 50.000			Recovery = 72.98%			
4) Phenol-d5	5.819	99	1843923	29.18	ppm	-0.03
Spiked Amount 50.000			Recovery = 58.36%			
7) Nitrobenzene-d5	7.316	82	2627694	44.28	ppm	-0.02
Spiked Amount 50.000			Recovery = 88.56%			
15) 2-Fluorobiphenyl	10.856	172	5121315	40.83	ppm	-0.03
Spiked Amount 50.000			Recovery = 81.66%			
20) 2,4,6-Tribromophenol	13.709	330	815224	42.16	ppm	-0.01
Spiked Amount 50.000			Recovery = 84.32%			
28) Terphenyl-d14	18.205	244	5322499	50.24	ppm	0.00
Spiked Amount 50.000			Recovery = 100.48%			
Target Compounds						Qvalue
2) 1,4-dioxane	2.035	88	10099	0.60	ppm	# 5
5) Phenol	5.831	94	242718	3.68	ppm	# 69
6) bis(2-Chloroethyl)ether	5.903	93	53926	1.10	ppm	# 48
8) Nitrobenzene	7.353	77	67252m	1.12	ppm	
9) Naphthalene	8.709	128	893289	4.97	ppm	93
10) Hexachlorobutadiene	9.010	225	26564	0.83	ppm	64
11) 2-Methylnaphthalene	10.076	141	478635	5.09	ppm	96
13) Hexachlorocyclopentadiene	10.425	237	15338	0.69	ppm	96
16) Acenaphthylene	11.823	152	160649	1.05	ppm	98
17) Acenaphthene	12.178	153	114170	1.14	ppm	93
18) 4,6-dinitro-2-methylph...	13.388	198	84731	5.16	ppm	# 74
19) Fluorene	13.219	166	132784	1.19	ppm	90
22) Hexachlorobenzene	14.326	284	37525	1.01	ppm	96
23) Pentachlorophenol	14.758	266	94189	6.00	ppm	94
24) Phenanthrene	15.114	178	190150	1.24	ppm	97
25) Anthracene	15.207	178	154099	1.06	ppm	97
26) Fluoranthene	17.402	202	202573	1.07	ppm	99
27) Pyrene	17.788	202	200373	1.12	ppm	99
29) Benzo[a]anthracene	19.889	228	165642	1.11	ppm	98
30) Chrysene	19.951	228	157865	1.00	ppm	98
32) Benzo[b]fluoranthene	21.544	252	147761	0.85	ppm	96
33) Benzo[k]fluoranthene	21.581	252	147627	0.94	ppm	95
34) Benzo[a]pyrene	21.995	252	144354	0.90	ppm	93
35) Indeno[1,2,3-cd]pyrene	23.444	276	135122	0.83	ppm	95
36) Dibenz[a,h]anthracene	23.481	278	101787	0.75	ppm	82
37) Benzo[g,h,i]perylene	23.763	276	117865	0.80	ppm	99

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2980\
Data File : 3m63015.D
Acq On : 18 Jul 2016 10:58 am
Operator : ashleyd
Sample : op95600a-ms
Misc : op95600a,e3m2980,500
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jul 18 15:44:14 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2975SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon Jul 18 15:41:37 2016
Response via : Initial Calibration



M3M2975SIM.M Mon Jul 18 15:44:25 2016 RPT1 Page: 2

Manual Integration Approval Summary

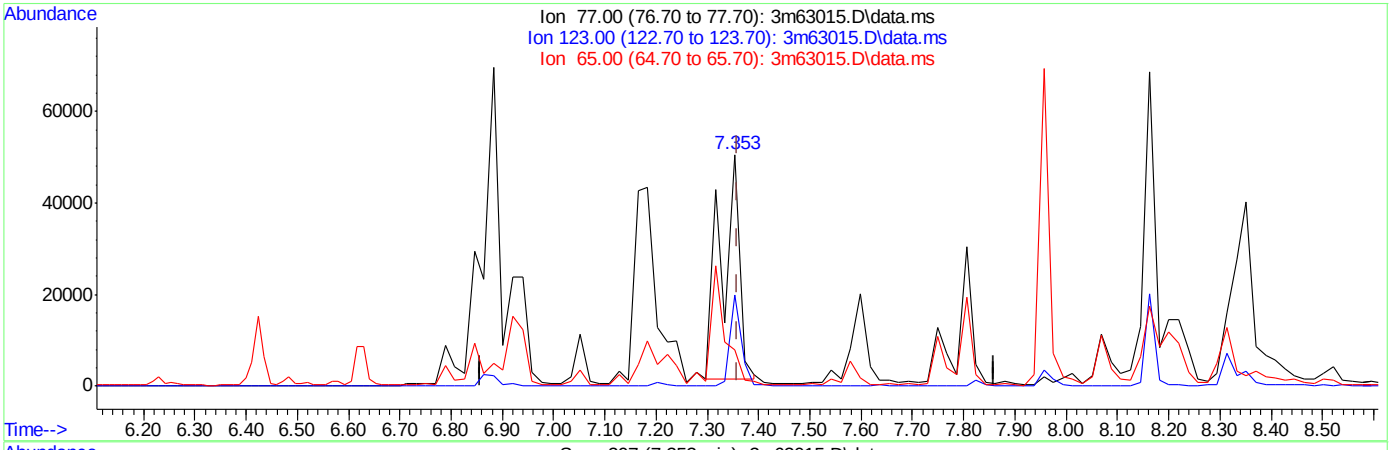
Sample Number:	OP95600A-MS	**Method:**	SW846 8270D BY SIM
Lab FileID:	3M63015.D	**Analyst approved:**	07/18/16 15:46 Ashley Dye
Injection Time:	07/18/16 10:58	**Supervisor approved:**	07/18/16 16:20 Nina Pandya

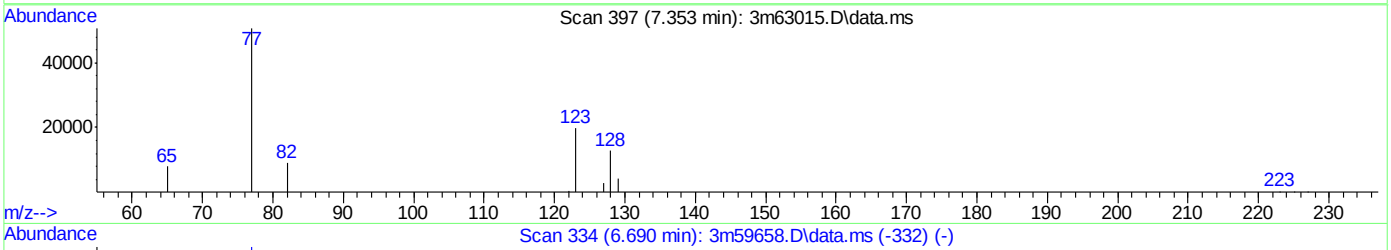
Parameter	CAS	Sig#	R.T. (min.)	Reason
Nitrobenzene	98-95-3		7.35	Poor instrument integration

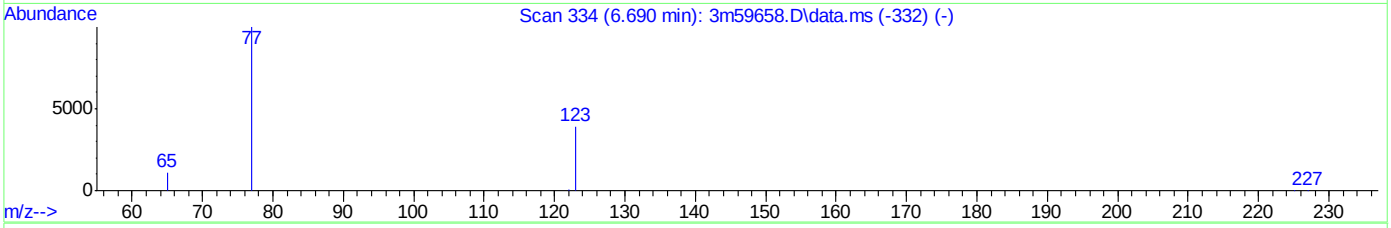
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E3M2980\
Data File : 3m63015.D
Acq On : 18 Jul 2016 10:58 am
Operator : ashleyd
Sample : op95600a-ms
Misc : op95600a,e3m2980,500
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jul 18 15:43:51 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2975SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon Jul 18 15:41:37 2016
Response via : Initial Calibration







TIC: 3m63015.D\data.ms

(8) Nitrobenzene (t)

7.353min (-0.005) 2.03ppm

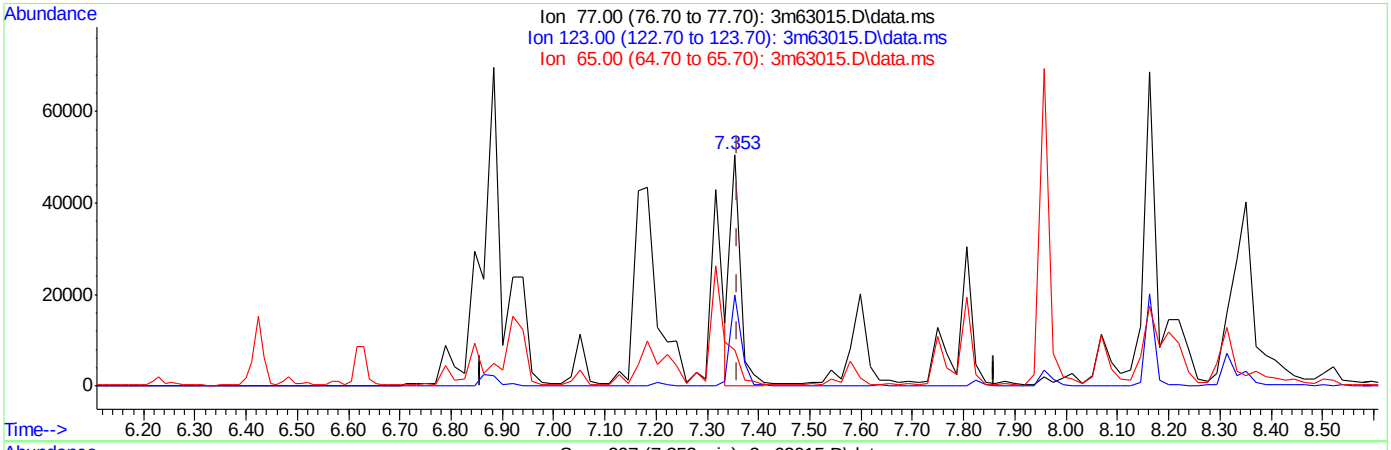
response 121763

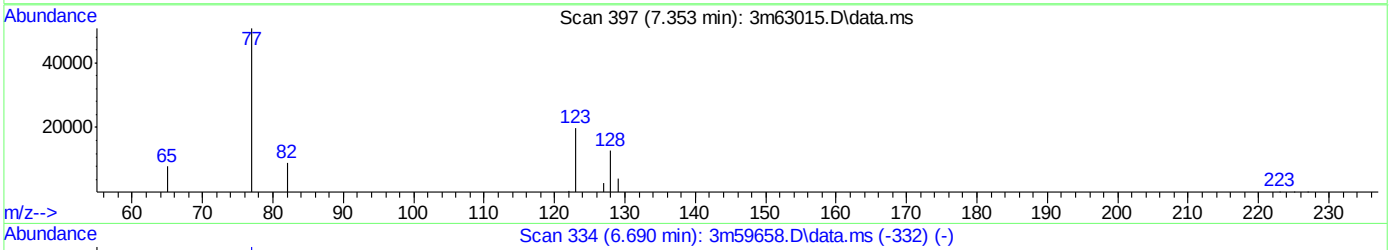
Ion	Exp%	Act%
77.00	100	100
123.00	17.40	40.55
65.00	17.30	14.13
0.00	0.00	0.00

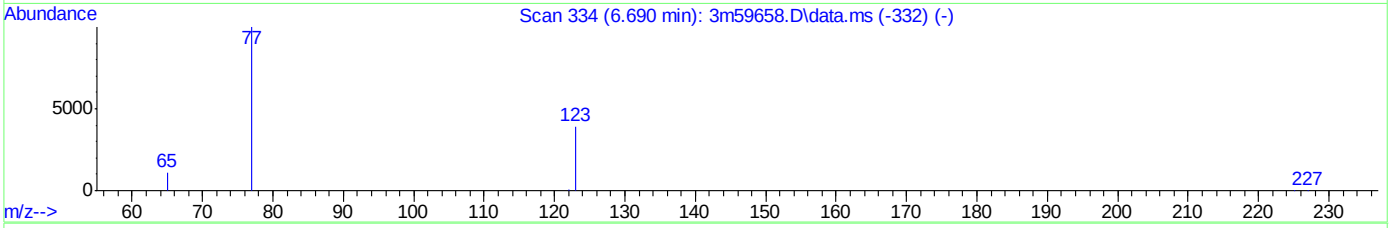
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E3M2980\
Data File : 3m63015.D
Acq On : 18 Jul 2016 10:58 am
Operator : ashleyd
Sample : op95600a-ms
Misc : op95600a,e3m2980,500
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jul 18 15:43:51 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2975SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon Jul 18 15:41:37 2016
Response via : Initial Calibration







TIC: 3m63015.D\data.ms

(8) Nitrobenzene (t)

7.353min (-0.005) 1.12ppm m

response 67252

Ion	Exp%	Act%
77.00	100	100
123.00	17.40	39.43
65.00	17.30	15.83
0.00	0.00	0.00

Manual Integrations APPROVED (compounds with "m" flag)
Nina Pandya
07/18/16 16:20

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2980\
Data File : 3m63016.D
Acq On : 18 Jul 2016 11:31 am
Operator : ashleyd
Sample : op95600a-msd
Misc : op95600a,e3m2980,500
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jul 18 15:44:52 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2975SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon Jul 18 15:41:37 2016
Response via : Initial Calibration

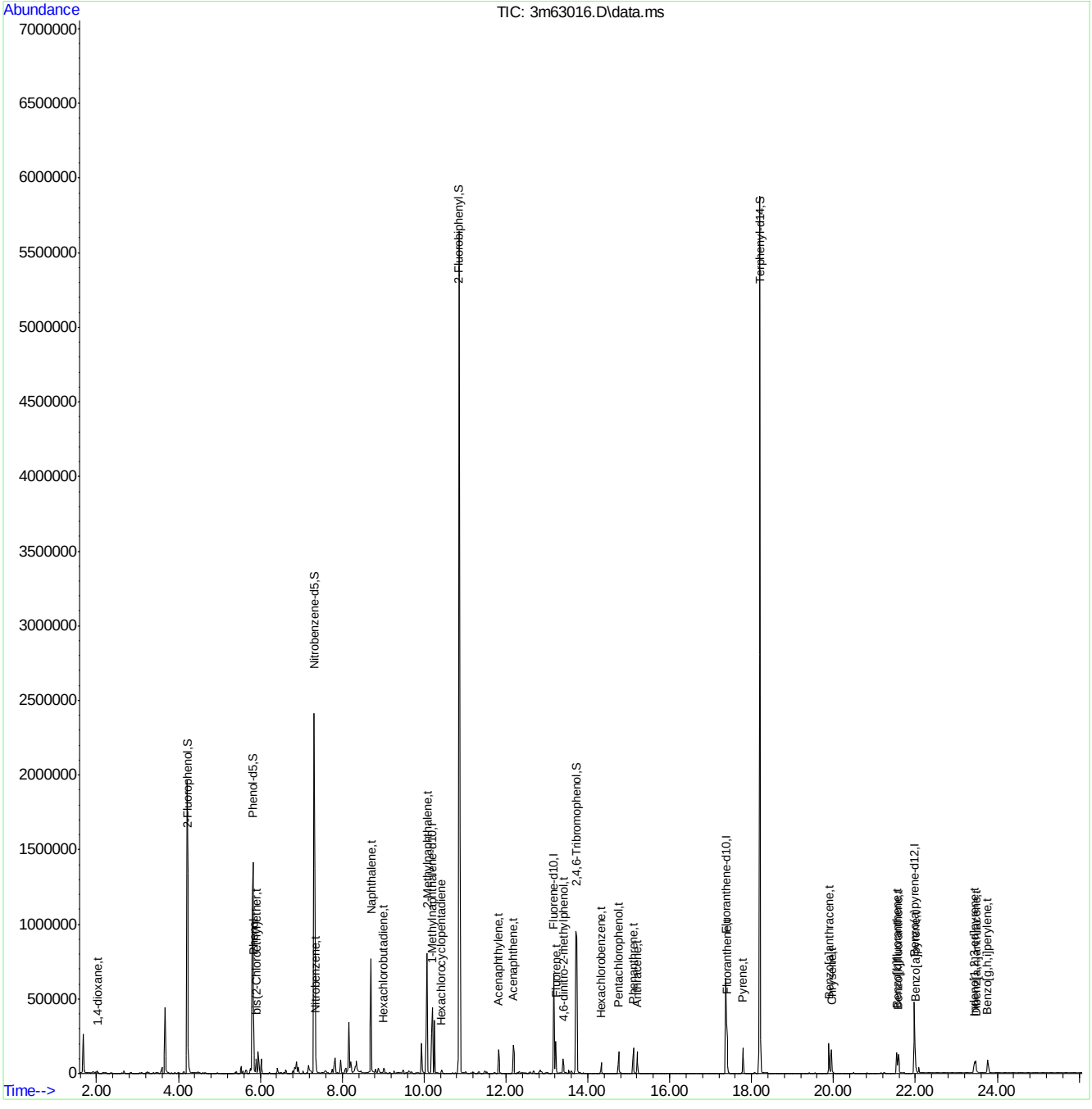
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	10.200	150	322134	4.00	ppm	0.02
14) Fluorene-d10	13.162	176	476435	4.00	ppm	0.00
21) Fluoranthene-d10	17.371	212	732022	4.00	ppm	0.00
31) Benzo(a)pyrene-d12	21.977	264	588659	4.00	ppm	0.00
System Monitoring Compounds						
3) 2-Fluorophenol	4.229	112	1543563	34.43	ppm	-0.03
Spiked Amount 50.000			Recovery = 68.86%			
4) Phenol-d5	5.819	99	1868261	28.18	ppm	-0.03
Spiked Amount 50.000			Recovery = 56.36%			
7) Nitrobenzene-d5	7.316	82	2728742	43.83	ppm	-0.02
Spiked Amount 50.000			Recovery = 87.66%			
15) 2-Fluorobiphenyl	10.856	172	5357957	41.44	ppm	-0.03
Spiked Amount 50.000			Recovery = 82.88%			
20) 2,4,6-Tribromophenol	13.709	330	872862	43.79	ppm	-0.01
Spiked Amount 50.000			Recovery = 87.58%			
28) Terphenyl-d14	18.205	244	5500098	49.24	ppm	0.00
Spiked Amount 50.000			Recovery = 98.48%			
Target Compounds						Qvalue
2) 1,4-dioxane	2.020	88	11159	0.63	ppm #	66
5) Phenol	5.831	94	241582	3.49	ppm #	69
6) bis(2-Chloroethyl)ether	5.903	93	55197	1.08	ppm #	38
8) Nitrobenzene	7.354	77	69510m	1.10	ppm	
9) Naphthalene	8.709	128	929784	4.93	ppm	93
10) Hexachlorobutadiene	9.011	225	27979	0.83	ppm	65
11) 2-Methylnaphthalene	10.076	141	491409	4.98	ppm	96
13) Hexachlorocyclopentadiene	10.425	237	16831	0.71	ppm	94
16) Acenaphthylene	11.823	152	169827	1.08	ppm	97
17) Acenaphthene	12.178	153	119054	1.16	ppm	94
18) 4,6-dinitro-2-methylph...	13.407	198	89729	5.27	ppm #	33
19) Fluorene	13.219	166	138356	1.20	ppm	90
22) Hexachlorobenzene	14.326	284	39109	1.00	ppm	99
23) Pentachlorophenol	14.759	266	105867	6.35	ppm	95
24) Phenanthrene	15.114	178	197588	1.22	ppm	96
25) Anthracene	15.207	178	162945	1.07	ppm	97
26) Fluoranthene	17.402	202	216677	1.08	ppm	99
27) Pyrene	17.788	202	213321	1.13	ppm	99
29) Benzo[a]anthracene	19.889	228	175024	1.11	ppm	99
30) Chrysene	19.951	228	166835	1.00	ppm	99
32) Benzo[b]fluoranthene	21.544	252	154987	0.81	ppm	97
33) Benzo[k]fluoranthene	21.581	252	155922	0.90	ppm	94
34) Benzo[a]pyrene	21.995	252	148823	0.85	ppm	93
35) Indeno[1,2,3-cd]pyrene	23.444	276	134318	0.75	ppm	95
36) Dibenz[a,h]anthracene	23.481	278	102611	0.69	ppm	83
37) Benzo[g,h,i]perylene	23.763	276	114866	0.70	ppm	100

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2980\
Data File : 3m63016.D
Acq On : 18 Jul 2016 11:31 am
Operator : ashleyd
Sample : op95600a-msd
Misc : op95600a,e3m2980,500
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jul 18 15:44:52 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2975SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon Jul 18 15:41:37 2016
Response via : Initial Calibration



SGS ACCUTEST JC24133

Manual Integration Approval Summary

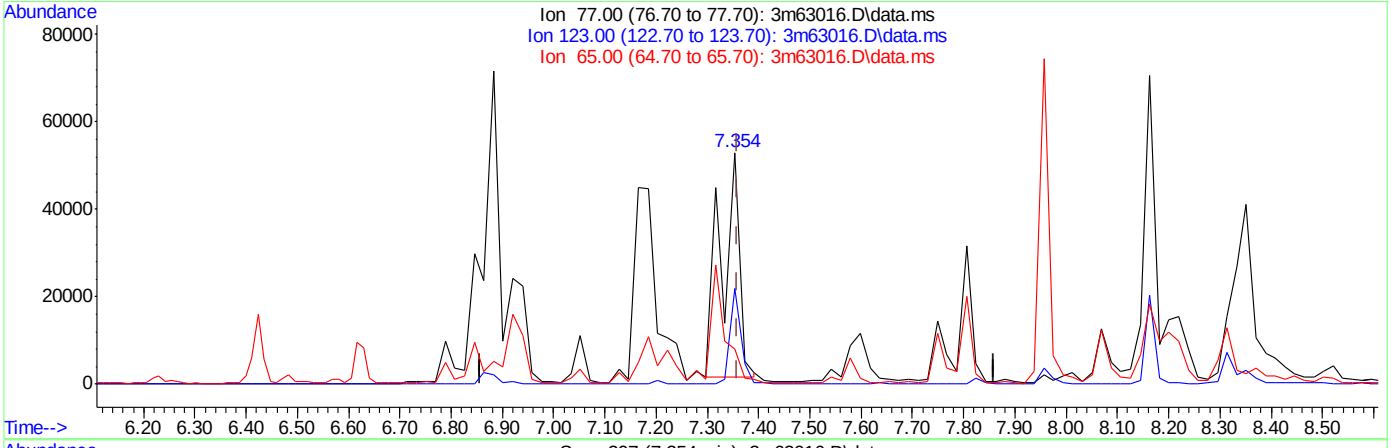
Sample Number:	OP95600A-MSD	**Method:**	SW846 8270D BY SIM
Lab FileID:	3M63016.D	**Analyst approved:**	07/18/16 15:46 Ashley Dye
Injection Time:	07/18/16 11:31	**Supervisor approved:**	07/18/16 16:20 Nina Pandya

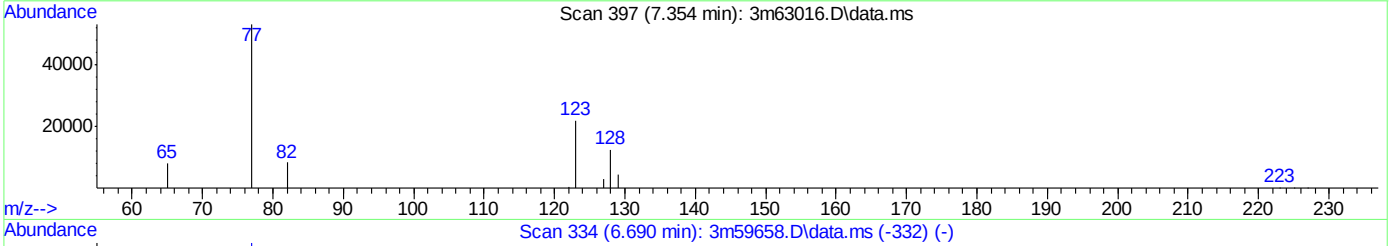
Parameter	CAS	Sig#	R.T. (min.)	Reason
Nitrobenzene	98-95-3		7.35	Poor instrument integration

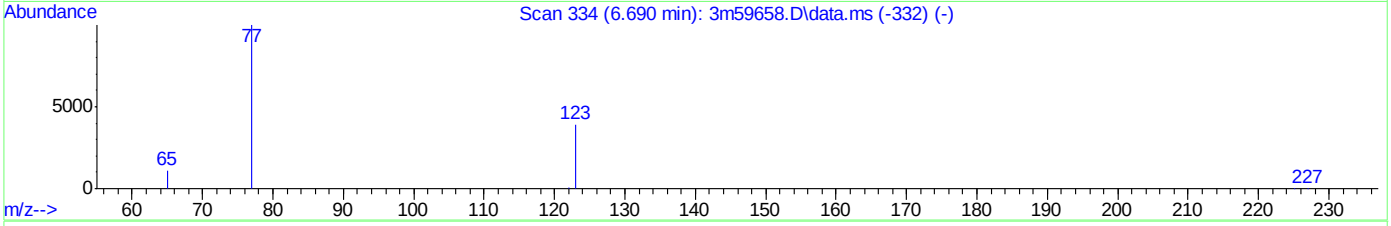
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E3M2980\
Data File : 3m63016.D
Acq On : 18 Jul 2016 11:31 am
Operator : ashleyd
Sample : op95600a-msd
Misc : op95600a,e3m2980,500
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jul 18 15:44:35 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2975SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon Jul 18 15:41:37 2016
Response via : Initial Calibration







TIC: 3m63016.D\data.ms

(8) Nitrobenzene (t)

7.354min (-0.005) 2.01ppm

response 126414

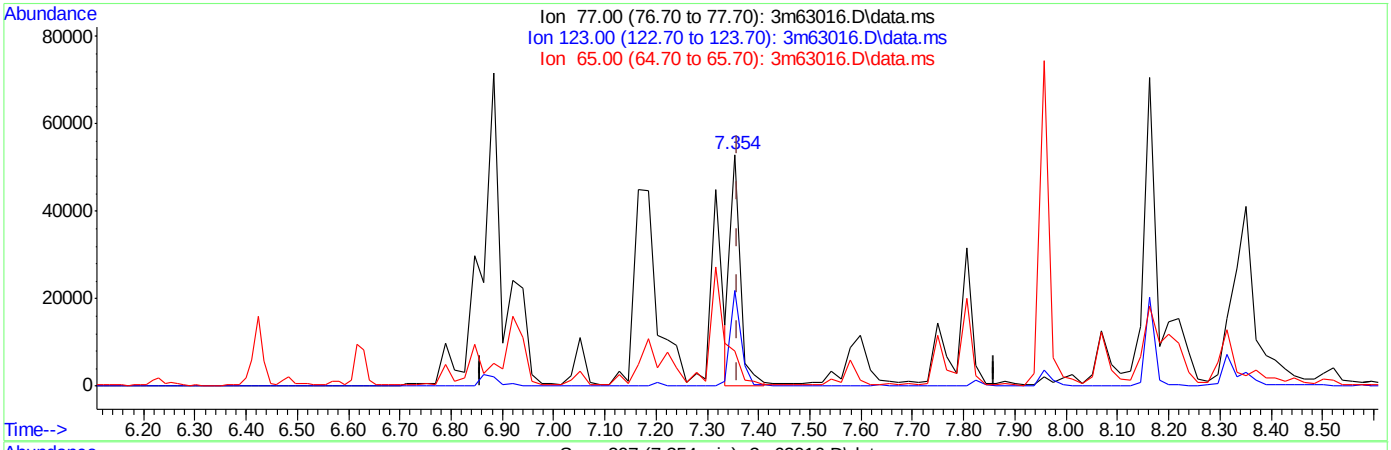
Ion	Exp%	Act%
77.00	100	100
123.00	17.40	42.38
65.00	17.30	13.69
0.00	0.00	0.00

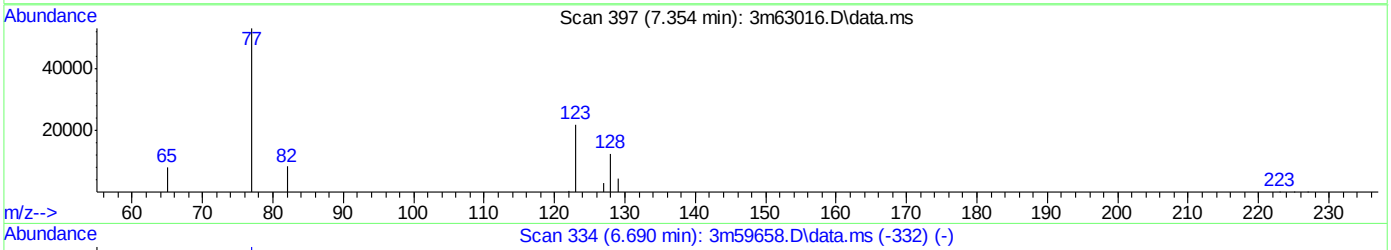
SGS ACCUTEST JC24133

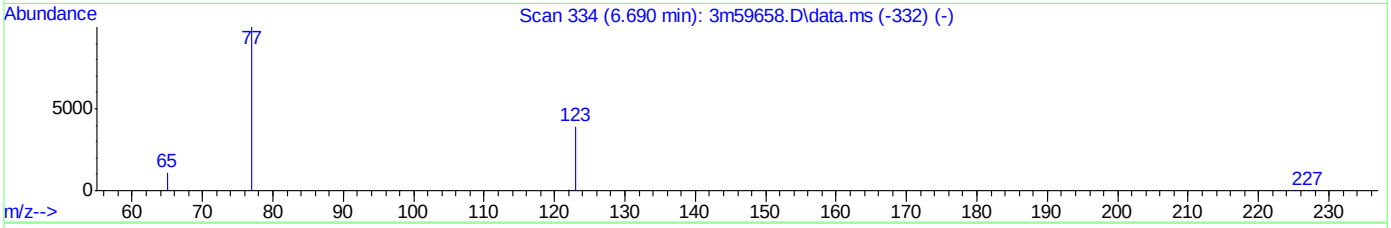
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E3M2980\
Data File : 3m63016.D
Acq On : 18 Jul 2016 11:31 am
Operator : ashleyd
Sample : op95600a-msd
Misc : op95600a,e3m2980,500
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jul 18 15:44:35 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2975SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon Jul 18 15:41:37 2016
Response via : Initial Calibration







TIC: 3m63016.D\data.ms

(8) Nitrobenzene (t)

7.354min (-0.005) 1.10ppm m

response 69510

Ion	Exp%	Act%
77.00	100	100
123.00	17.40	41.25
65.00	17.30	15.36
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2982\
Data File : 3m63047.D
Acq On : 19 Jul 2016 11:03 am
Operator : hankc
Sample : op95633a-ms
Misc : op95633a,e3m2982,450
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jul 19 15:35:41 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2975SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon Jul 18 15:41:37 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1-Methylnaphthalene-d10	10.241	150	343581	4.00	ppm		0.06
14) Fluorene-d10	13.219	176	458223	4.00	ppm		0.06
21) Fluoranthene-d10	17.433	212	713520	4.00	ppm		0.06
31) Benzo(a)pyrene-d12	22.033	264	555094	4.00	ppm		0.06
System Monitoring Compounds							
3) 2-Fluorophenol	4.260	112	1405410	29.39	ppm		0.00
Spiked Amount 50.000			Recovery = 58.78%				
4) Phenol-d5	5.843	99	1733374	24.51	ppm		0.00
Spiked Amount 50.000			Recovery = 49.02%				
7) Nitrobenzene-d5	7.354	82	2165865	32.62	ppm		0.01
Spiked Amount 50.000			Recovery = 65.24%				
15) 2-Fluorobiphenyl	10.917	172	4791510	38.53	ppm		0.03
Spiked Amount 50.000			Recovery = 77.06%				
20) 2,4,6-Tribromophenol	13.765	330	743505	38.78	ppm		0.04
Spiked Amount 50.000			Recovery = 77.56%				
28) Terphenyl-d14	18.252	244	4802569	44.11	ppm		0.05
Spiked Amount 50.000			Recovery = 88.22%				
Target Compounds							Qvalue
2) 1,4-dioxane	2.051	88	10300	0.55	ppm		98
5) Phenol	5.867	94	229338	3.11	ppm	#	68
6) bis(2-Chloroethyl)ether	5.940	93	40278	0.74	ppm		76
8) Nitrobenzene	7.391	77	49493	0.74	ppm		83
9) Naphthalene	8.747	128	132261	0.66	ppm		100
10) Hexachlorobutadiene	9.067	225	22611	0.63	ppm		91
11) 2-Methylnaphthalene	10.118	141	75725	0.72	ppm		75
13) Hexachlorocyclopentadiene	10.487	237	9986	0.47	ppm	#	77
16) Acenaphthylene	11.885	152	125258	0.82	ppm		93
17) Acenaphthene	12.240	153	86178	0.87	ppm		80
18) 4,6-dinitro-2-methylph...	13.445	198	80255	4.96	ppm	#	61
19) Fluorene	13.275	166	97977	0.88	ppm		99
22) Hexachlorobenzene	14.372	284	31583	0.83	ppm		87
23) Pentachlorophenol	14.805	266	89747	5.62	ppm		89
24) Phenanthrene	15.161	178	147859	0.94	ppm		96
25) Anthracene	15.269	178	137306	0.92	ppm		92
26) Fluoranthene	17.464	202	175908	0.90	ppm		94
27) Pyrene	17.850	202	183865	1.00	ppm		95
29) Benzo[a]anthracene	19.936	228	138273	0.90	ppm		91
30) Chrysene	19.997	228	147503	0.91	ppm		91
32) Benzo[b]fluoranthene	21.600	252	141982	0.79	ppm		96
33) Benzo[k]fluoranthene	21.638	252	136080	0.83	ppm		99
34) Benzo[a]pyrene	22.052	252	128137	0.77	ppm		96
35) Indeno[1,2,3-cd]pyrene	23.500	276	120760	0.71	ppm		97
36) Dibenz[a,h]anthracene	23.538	278	98991	0.70	ppm		90
37) Benzo[g,h,i]perylene	23.839	276	105834	0.69	ppm		98

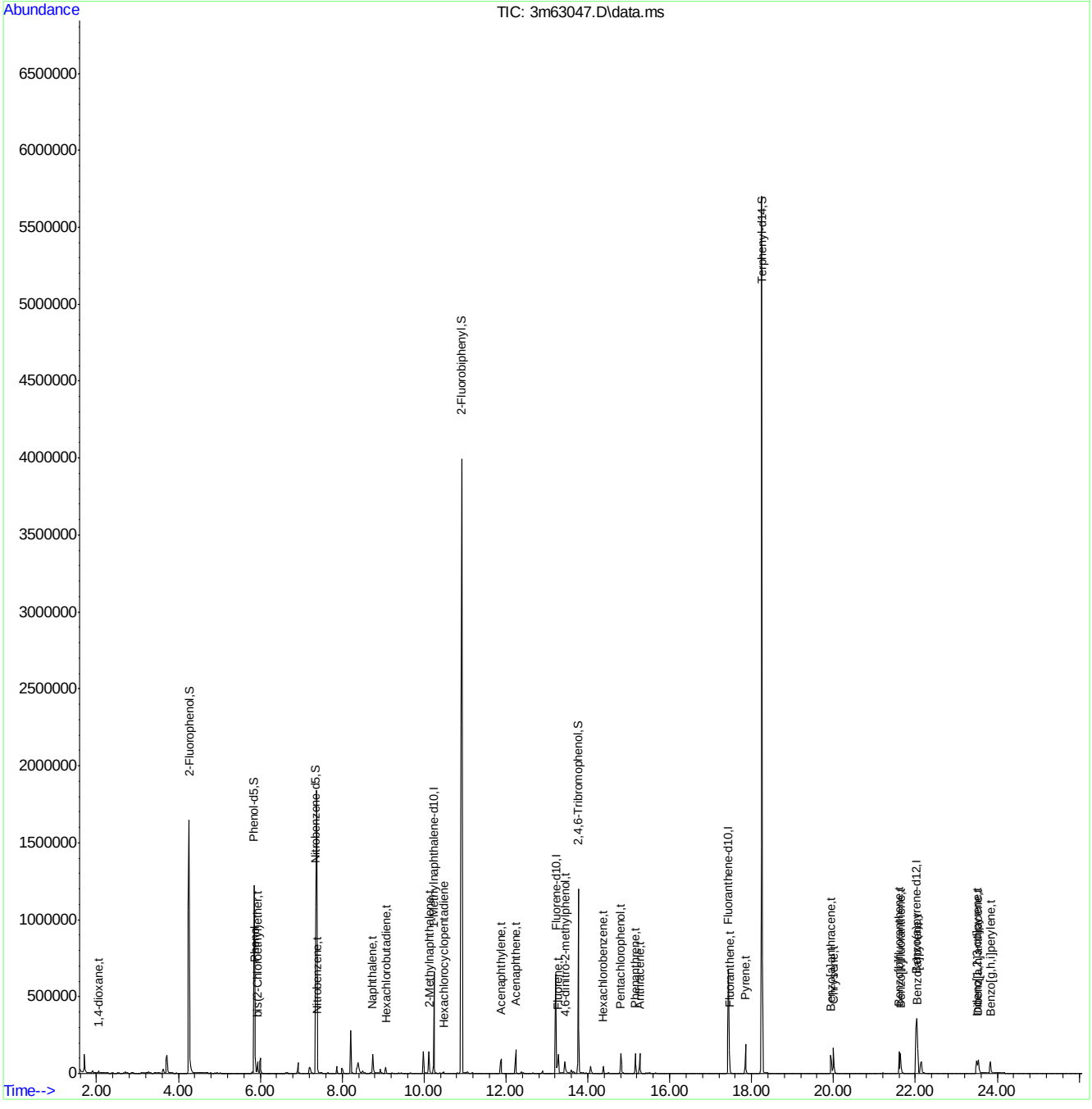
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC24133

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2982\
Data File : 3m63047.D
Acq On : 19 Jul 2016 11:03 am
Operator : hankc
Sample : op95633a-ms
Misc : op95633a,e3m2982,450
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jul 19 15:35:41 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2975SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon Jul 18 15:41:37 2016
Response via : Initial Calibration



SGS ACCUTEST JC24133

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2982\
Data File : 3m63048.D
Acq On : 19 Jul 2016 11:36 am
Operator : hankc
Sample : op95633a-msd
Misc : op95633a,e3m2982,450
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jul 19 15:36:07 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2975SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon Jul 18 15:41:37 2016
Response via : Initial Calibration

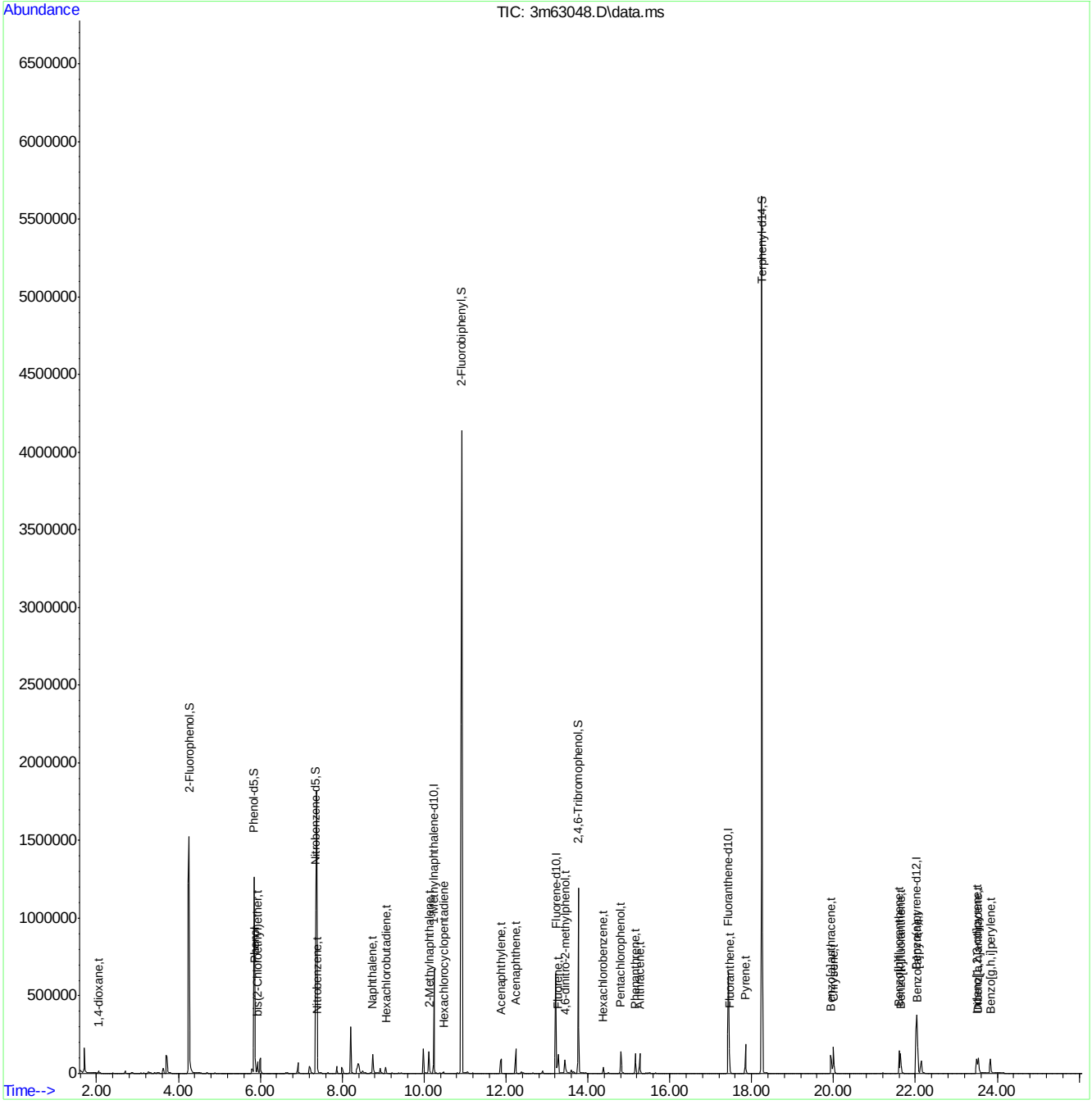
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1-Methylnaphthalene-d10	10.241	150	352657	4.00	ppm		0.06
14) Fluorene-d10	13.219	176	462301	4.00	ppm		0.06
21) Fluoranthene-d10	17.433	212	711469	4.00	ppm		0.06
31) Benzo(a)pyrene-d12	22.033	264	553297	4.00	ppm		0.06
System Monitoring Compounds							
3) 2-Fluorophenol	4.260	112	1372477	27.96	ppm		0.00
Spiked Amount 50.000			Recovery = 55.92%				
4) Phenol-d5	5.843	99	1700157	23.42	ppm		0.00
Spiked Amount 50.000			Recovery = 46.84%				
7) Nitrobenzene-d5	7.354	82	2111394	30.98	ppm		0.01
Spiked Amount 50.000			Recovery = 61.96%				
15) 2-Fluorobiphenyl	10.917	172	4922135	39.23	ppm		0.03
Spiked Amount 50.000			Recovery = 78.46%				
20) 2,4,6-Tribromophenol	13.765	330	742476	38.39	ppm		0.04
Spiked Amount 50.000			Recovery = 76.78%				
28) Terphenyl-d14	18.252	244	4814512	44.34	ppm		0.05
Spiked Amount 50.000			Recovery = 88.68%				
Target Compounds							Qvalue
2) 1,4-dioxane	2.051	88	10550	0.54	ppm		99
5) Phenol	5.867	94	237916	3.14	ppm	#	66
6) bis(2-Chloroethyl)ether	5.940	93	39993	0.71	ppm		74
8) Nitrobenzene	7.391	77	48415	0.70	ppm		83
9) Naphthalene	8.747	128	131426	0.64	ppm		100
10) Hexachlorobutadiene	9.067	225	23025	0.62	ppm		91
11) 2-Methylnaphthalene	10.118	141	75132	0.70	ppm		75
13) Hexachlorocyclopentadiene	10.487	237	10370	0.48	ppm	#	77
16) Acenaphthylene	11.885	152	128923	0.84	ppm		93
17) Acenaphthene	12.240	153	87694	0.88	ppm		81
18) 4,6-dinitro-2-methylph...	13.445	198	88375	5.34	ppm	#	61
19) Fluorene	13.275	166	98814	0.88	ppm		98
22) Hexachlorobenzene	14.372	284	31353	0.82	ppm		88
23) Pentachlorophenol	14.805	266	96000	5.97	ppm		91
24) Phenanthrene	15.161	178	146247	0.93	ppm		96
25) Anthracene	15.269	178	137840	0.93	ppm		92
26) Fluoranthene	17.464	202	171365	0.88	ppm		94
27) Pyrene	17.850	202	180595	0.98	ppm		94
29) Benzo[a]anthracene	19.936	228	141680	0.93	ppm		90
30) Chrysene	19.997	228	149178	0.92	ppm		91
32) Benzo[b]fluoranthene	21.600	252	146354	0.81	ppm		97
33) Benzo[k]fluoranthene	21.638	252	141778	0.87	ppm		99
34) Benzo[a]pyrene	22.052	252	138390	0.84	ppm		95
35) Indeno[1,2,3-cd]pyrene	23.500	276	140022	0.83	ppm		97
36) Dibenz[a,h]anthracene	23.538	278	113177	0.81	ppm		91
37) Benzo[g,h,i]perylene	23.839	276	124267	0.81	ppm		98

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2982\
Data File : 3m63048.D
Acq On : 19 Jul 2016 11:36 am
Operator : hankc
Sample : op95633a-msd
Misc : op95633a,e3m2982,450
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jul 19 15:36:07 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2975SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon Jul 18 15:41:37 2016
Response via : Initial Calibration



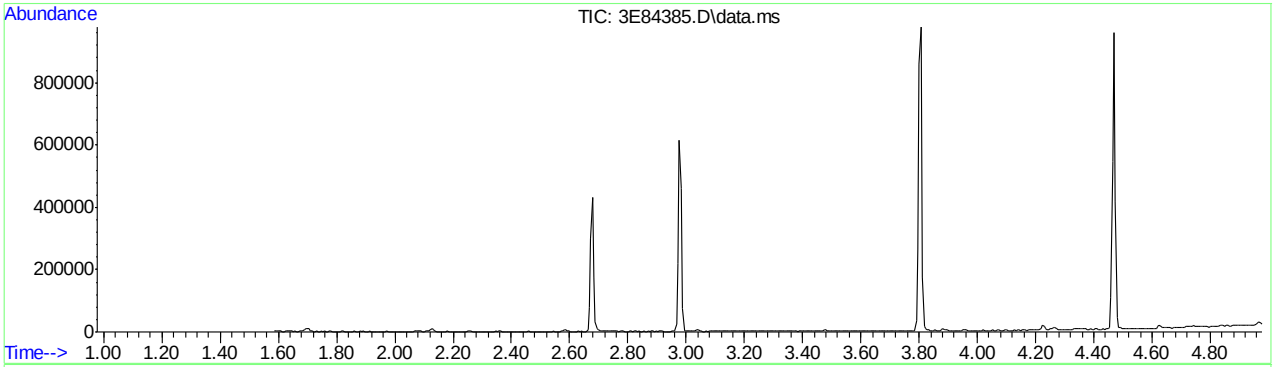
SGS ACCUTEST JC24133

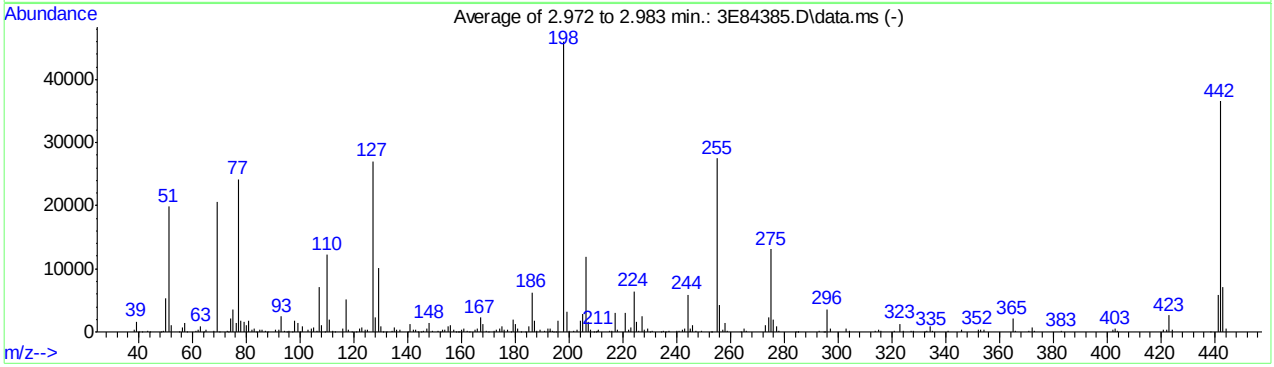
DFTPP

Data Path : C:\msdchem\1\DATA\E3E3699\
Data File : 3E84385.D
Acq On : 22 Jun 2016 9:48 am
Operator : ashleyn
Sample : dftpp
Misc : op94630a,e3e3699
ALS Vial : 1 Sample Multiplier: 1

Integration File: RTEINT.P

Method : C:\msdchem\1\METHODS\dftpp3e.M
Title : Semi Volatile GC/MS,zb-5msplus 30m x .25mm x .25Sat Aug 08 13:07:52 2015
Last Update : Sat Aug 08 13:07:52 2015





AutoFind: Scans 260, 261, 262; Background Corrected with Scan 256

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	43.1	19816	PASS
68	69	0.00	2	0.7	138	PASS
69	198	0.00	100	44.7	20559	PASS
70	69	0.00	2	0.3	52	PASS
127	198	40	60	58.8	27055	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	46000	PASS
199	198	5	9	7.1	3276	PASS
275	198	10	30	28.5	13103	PASS
365	198	1	100	4.5	2054	PASS
441	443	0.10	100	83.4	5905	PASS
442	198	40	100	79.3	36501	PASS
443	442	17	23	19.4	7084	PASS

SGS ACCUTEST JC24133

Average of 2.972 to 2.983 min.: 3E84385.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
38.15	290	55.00	31	70.00	52	82.00	386
39.10	1668	56.05	640	73.00	175	83.00	537
40.00	74	57.10	1499	73.20	73	83.95	77
41.05	21	58.10	60	74.10	2118	85.10	351
43.15	119	61.15	267	75.10	3476	86.00	348
44.00	77	62.15	286	76.15	1373	87.00	177
48.20	50	63.05	890	77.10	24184	88.00	56
49.00	157	64.00	74	78.10	1731	91.00	400
50.10	5262	65.05	387	79.05	1531	92.05	395
51.10	19816	68.00	138	80.05	1109	93.00	2446
52.10	1041	69.10	20559	81.00	1751	94.10	184

Average of 2.972 to 2.983 min.: 3E84385.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
95.00	60	107.05	7068	120.80	50	134.00	271
95.90	146	108.05	1122	121.95	531	135.00	730
97.20	85	109.00	87	123.05	726	135.95	395
98.00	1753	110.10	12244	124.05	390	137.05	383
99.05	1425	111.00	1873	125.05	355	139.90	60
99.90	71	112.00	212	127.10	27055	140.95	1181
101.00	907	113.00	82	128.05	2295	142.00	318
102.95	309	116.00	493	129.00	10150	143.00	358
104.00	523	117.10	5169	130.00	807	143.90	55
105.05	666	118.00	337	131.00	84	144.90	59
106.15	138	119.00	54	132.00	57	145.95	231

Average of 2.972 to 2.983 min.: 3E84385.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
147.05	569	158.90	52	169.90	53	182.00	60
148.05	1346	159.10	67	172.00	179	183.90	57
149.05	270	160.00	348	173.00	289	185.05	827
151.10	186	161.05	493	174.00	529	186.10	6253
151.90	64	162.00	139	175.05	847	187.10	1848
153.00	394	163.00	63	176.05	356	188.00	178
153.95	306	164.95	413	177.00	447	189.00	379
155.05	858	166.00	453	178.20	93	190.95	181
156.05	985	167.05	2279	179.00	1914	192.00	567
157.00	302	168.05	1162	180.05	1299	192.90	102
157.90	85	169.00	197	181.00	557	193.05	606

Average of 2.972 to 2.983 min.: 3E84385.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
193.90	99	206.10	11852	221.05	3075	234.00	68
194.10	50	207.10	1674	221.95	330	234.90	231
194.90	55	208.00	355	223.10	756	235.90	52
196.05	1822	209.00	95	224.10	6439	237.05	247
198.00	46000	210.10	64	225.10	1639	239.90	124
199.00	3276	210.40	114	226.00	149	240.95	146
200.05	242	211.05	388	227.05	2494	242.05	362
201.55	269	214.95	109	228.05	354	243.10	486
202.95	369	216.00	258	229.00	596	244.10	5944
204.05	1754	217.00	3029	230.00	55	244.90	103
205.10	2871	217.95	352	231.05	171	245.10	568

Average of 2.972 to 2.983 min.: 3E84385.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
246.00	999	264.95	626	293.05	252	323.10	1283
247.05	240	266.00	214	294.70	52	324.05	267
249.00	203	273.00	1043	295.00	84	327.05	246
252.80	65	274.05	2246	296.00	3595	327.90	120

dftpp3e.M Wed Jun 22 14:30:54 2016 MS3E Page: 2

253.00	68	275.10	13103	296.95	521	332.00	68
255.10	27467	276.00	1965	303.00	474	333.00	159
256.05	4232	277.00	926	304.00	148	334.05	859
257.00	345	277.95	165	313.95	126	334.95	179
258.05	1443	284.00	60	315.00	342	340.95	147
258.95	268	284.90	93	316.00	166	345.95	323
263.90	55	285.10	53	321.05	143	352.00	427

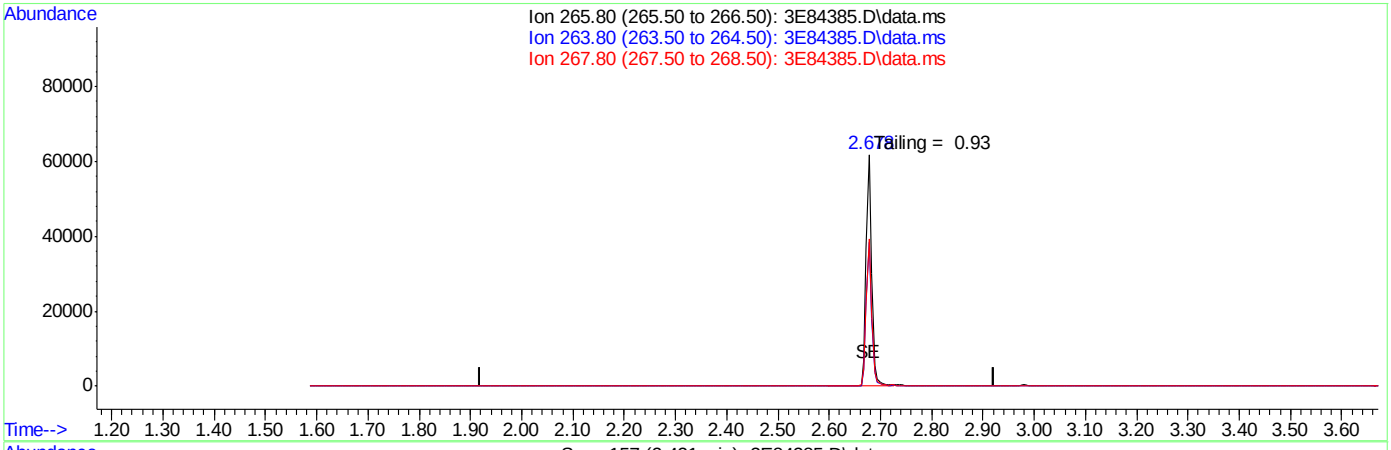
Average of 2.972 to 2.983 min.: 3E84385.D\data.ms
dftpp
Modified:subtracted

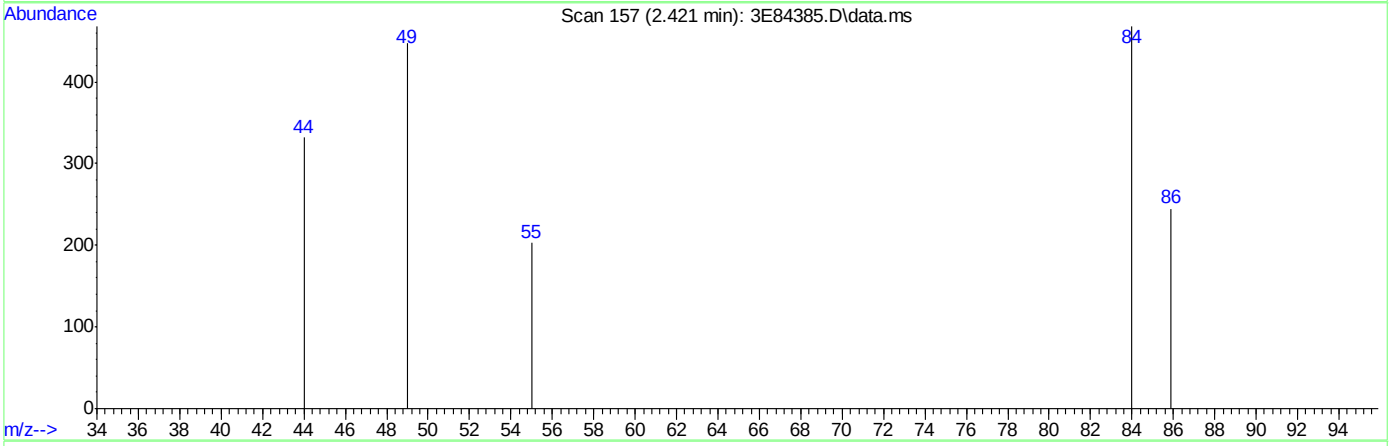
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
353.00	284	421.00	389				
354.05	428	422.05	324				
365.00	2054	423.00	2624				
365.95	260	424.00	416				
371.05	129	438.20	55				
372.00	776	441.10	5905				
373.05	170	442.10	36501				
383.00	135	443.05	7084				
402.00	313	444.05	514				
403.00	498						
403.95	148						

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E3E3699\
Data File : 3E84385.D
Acq On : 22 Jun 2016 9:48 am
Operator : ashleyn
Sample : dftpp
Misc : op94630a,e3e3699
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 22 09:55:39 2016
Quant Method : C:\msdchem\1\METHODS\dftpp3e.M
Quant Title : Semi Volatile GC/MS,zb-5msplus 30m x .25mm x .25Sat Aug 08 13:07:52 2015
QLast Update : Sat Aug 08 13:07:52 2015
Response via : Initial Calibration





TIC: 3E84385.D\data.ms

(1) Pentachlorophenol (t)

2.421min (-2.421) 0.00ppb

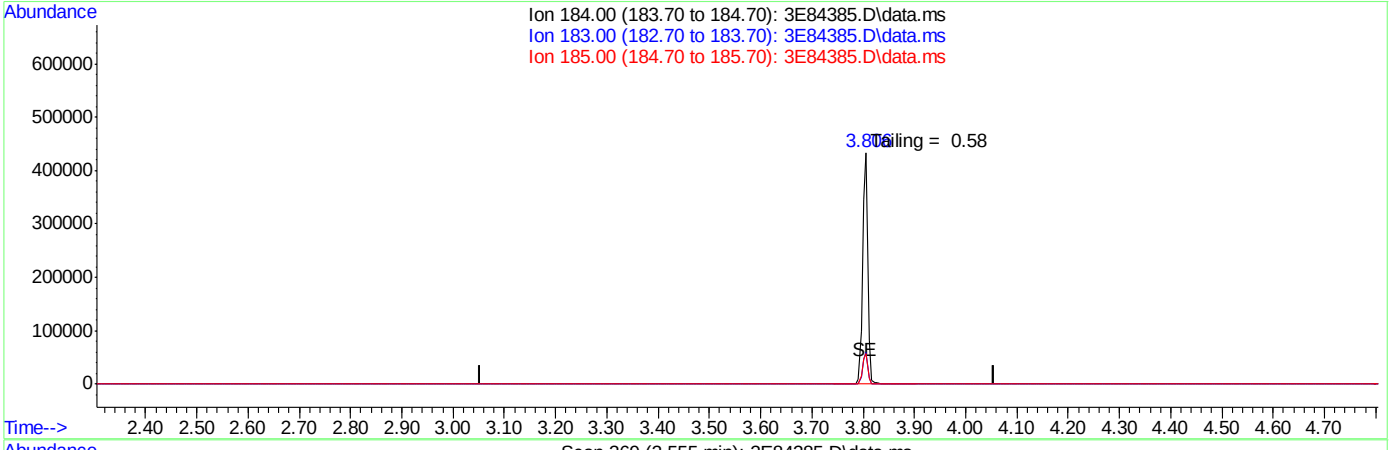
response 0

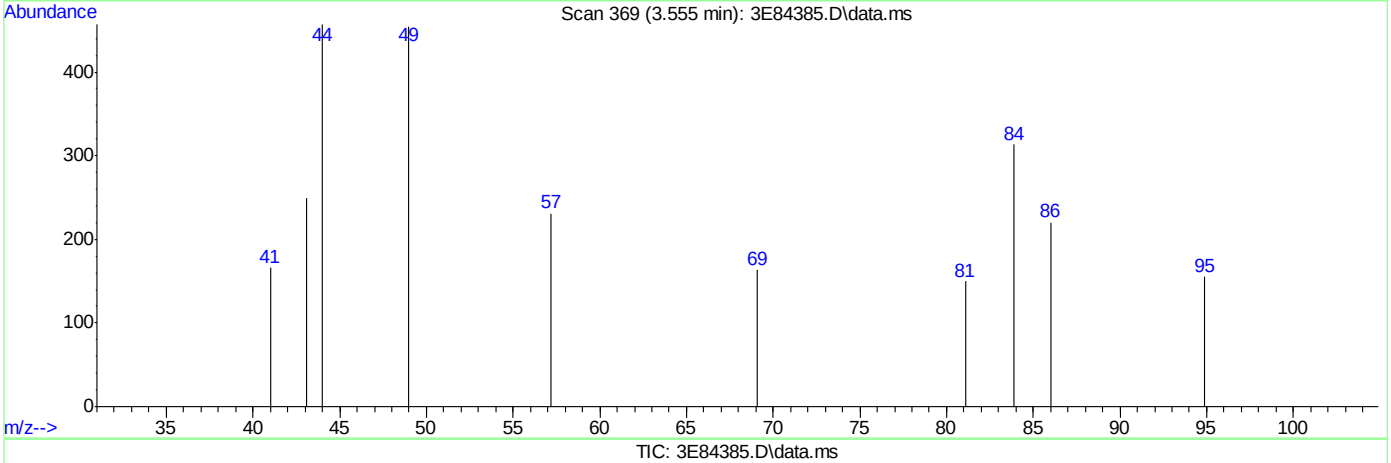
Ion	Exp%	Act%
265.80	100	0.00
263.80	62.20	0.00#
267.80	64.70	0.00#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E3E3699\
Data File : 3E84385.D
Acq On : 22 Jun 2016 9:48 am
Operator : ashleyn
Sample : dftpp
Misc : op94630a,e3e3699
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 22 09:55:39 2016
Quant Method : C:\msdchem\1\METHODS\dftpp3e.M
Quant Title : Semi Volatile GC/MS,zb-5msplus 30m x .25mm x .25Sat Aug 08 13:07:52 2015
QLast Update : Sat Aug 08 13:07:52 2015
Response via : Initial Calibration





TIC: 3E84385.D\data.ms

(2) Benzidine (t)

3.555min (-3.555) 0.00ppb

response 0

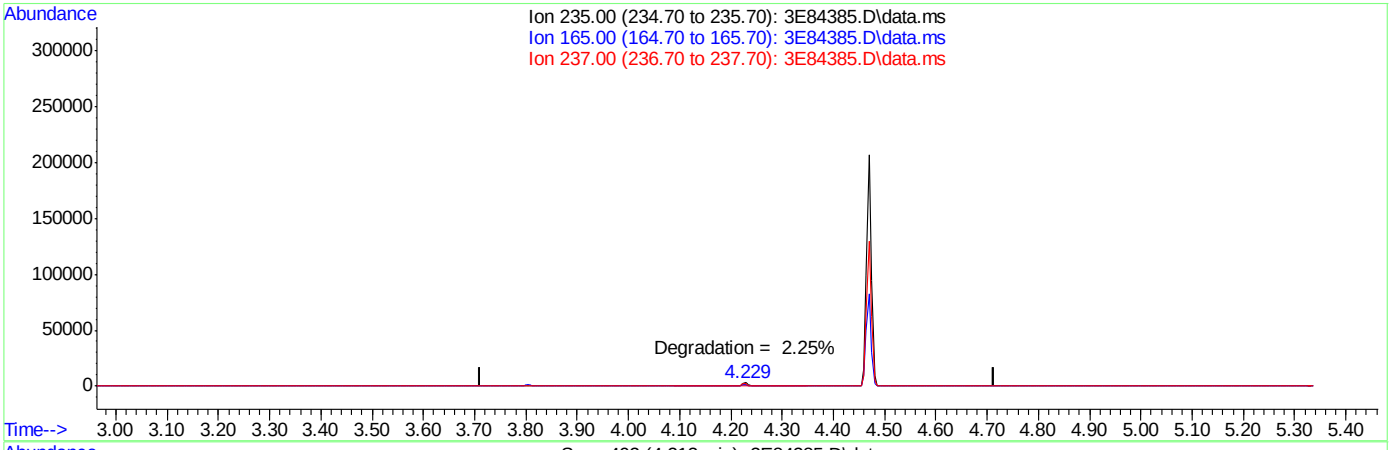
Ion	Exp%	Act%
184.00	100	0.00
183.00	13.20	0.00
185.00	15.40	0.00
0.00	0.00	0.00

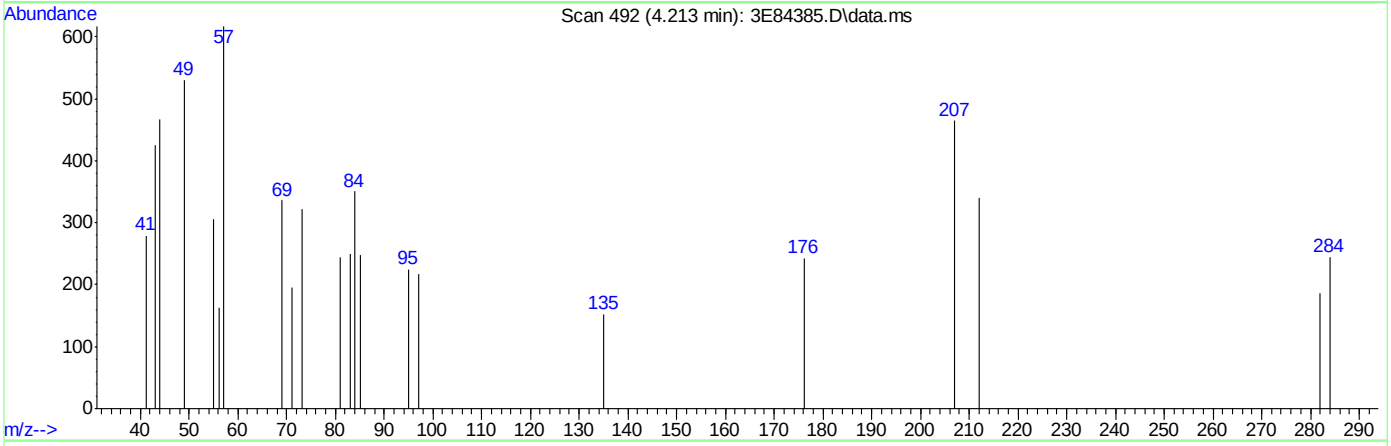
SGS ACCUTEST JC24133

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E3E3699\
Data File : 3E84385.D
Acq On : 22 Jun 2016 9:48 am
Operator : ashleyn
Sample : dftpp
Misc : op94630a,e3e3699
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 22 09:55:39 2016
Quant Method : C:\msdchem\1\METHODS\dftpp3e.M
Quant Title : Semi Volatile GC/MS,zb-5msplus 30m x .25mm x .25Sat Aug 08 13:07:52 2015
QLast Update : Sat Aug 08 13:07:52 2015
Response via : Initial Calibration





TIC: 3E84385.D\data.ms

(3) PP-DDT (t)

4.213min 0.00ppb d

response 0

Ion	Exp%	Act%
235.00	100	0.00
165.00	0.10	0.00
237.00	0.10	0.00
0.00	0.00	0.00

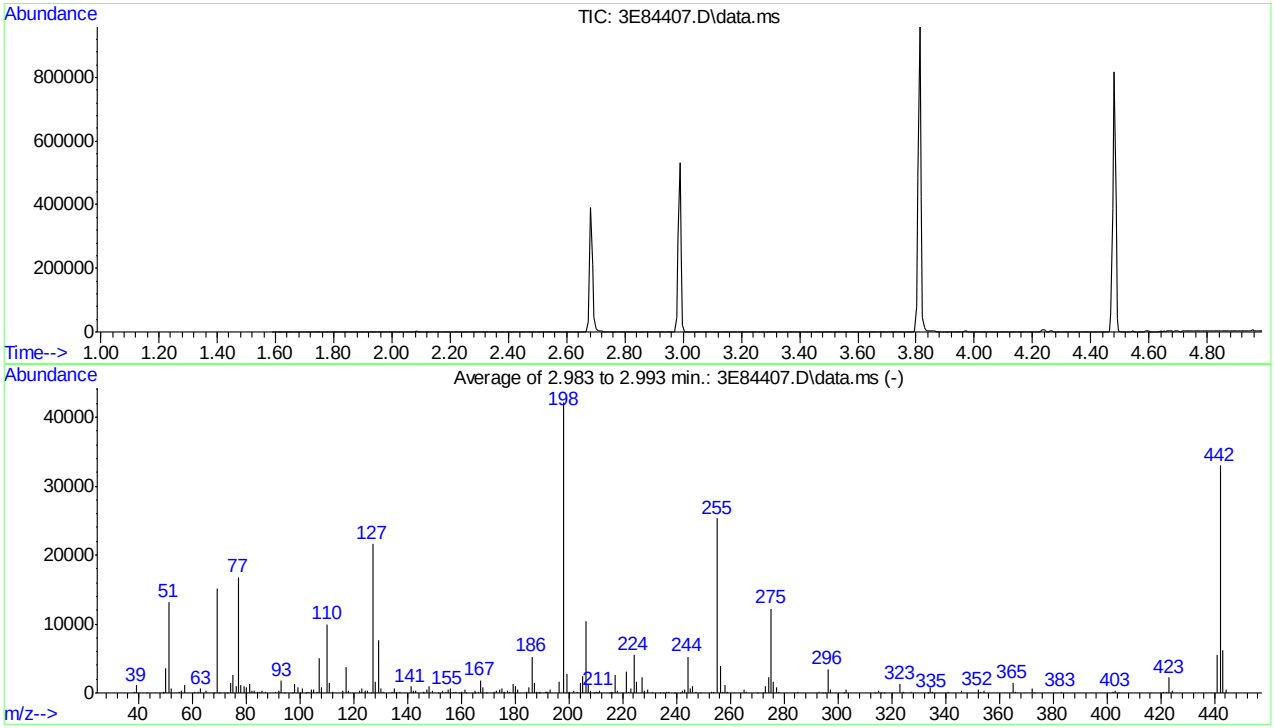
SGS ACCUTEST JC24133

DFTPP

Data Path : C:\msdchem\1\DATA\E3E3700\
Data File : 3E84407.D
Acq On : 22 Jun 2016 6:13 pm
Operator : seanb1
Sample : dftpp
Misc : op94630a,e3e3700
ALS Vial : 1 Sample Multiplier: 1

Integration File: RTEINT.P

Method : C:\msdchem\1\METHODS\dftpp3e.M
Title : Semi Volatile GC/MS,zb-5msplus 30m x .25mm x .25Sat Aug 08 13:07:52 2015
Last Update : Sat Aug 08 13:07:52 2015



AutoFind: Scans 262, 263, 264; Background Corrected with Scan 257

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	31.3	13193	PASS
68	69	0.00	2	0.4	54	PASS
69	198	0.00	100	35.9	15136	PASS
70	69	0.00	2	0.4	60	PASS
127	198	40	60	51.3	21600	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	42130	PASS
199	198	5	9	6.5	2745	PASS
275	198	10	30	29.1	12241	PASS
365	198	1	100	3.5	1457	PASS
441	443	0.10	100	90.4	5574	PASS
442	198	40	100	78.2	32954	PASS
443	442	17	23	18.7	6168	PASS

SGS ACCUTEST JC24133

Average of 2.983 to 2.993 min.: 3E84407.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
38.15	169	61.05	155	77.10	16813	91.05	241
39.10	1078	62.05	208	78.10	1090	92.00	287
43.10	55	63.10	627	79.05	983	93.05	1756
49.05	177	65.10	324	80.10	846	94.10	68
49.30	52	68.00	54	81.10	1270	97.20	56
50.10	3642	69.10	15136	82.05	319	98.00	1323
51.15	13193	70.10	60	83.10	399	99.05	871
52.05	734	72.90	56	84.00	106	100.10	72
55.05	132	74.10	1399	85.10	171	101.05	641
56.05	390	75.10	2592	86.00	283	102.00	52
57.05	1094	76.20	1001	87.05	158	103.05	196

Average of 2.983 to 2.993 min.: 3E84407.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
104.00	428	122.05	354	135.10	686	151.10	81
105.00	415	123.05	645	136.00	216	153.00	250
106.10	184	124.05	263	137.00	228	154.05	244
107.10	5112	125.00	314	141.10	964	155.00	499
108.05	791	126.10	63	142.10	361	156.05	721
110.10	9926	127.10	21600	143.00	263	157.15	132
111.05	1500	128.10	1569	145.90	69	157.95	201
112.05	208	129.10	7639	146.05	162	159.10	82
116.05	359	130.00	635	147.10	492	160.10	245
117.10	3816	130.90	123	148.00	956	161.10	470
118.00	265	134.00	206	149.05	256	161.90	70

Average of 2.983 to 2.993 min.: 3E84407.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
165.00	334	177.00	289	189.05	239	204.05	1518
165.20	56	178.10	101	191.10	171	205.10	2460
166.15	229	179.05	1355	191.90	211	206.10	10376
167.10	1867	180.00	913	192.10	173	207.10	1278
168.00	785	181.05	509	193.05	434	208.00	298
169.10	74	184.05	123	196.10	1671	209.00	78
172.05	119	185.10	756	198.05	42130	210.10	100
173.05	257	186.10	5257	199.10	2745	210.60	83
174.00	422	187.10	1423	200.05	188	211.10	380
175.10	699	188.10	119	201.50	307	215.00	71
176.05	233	188.80	52	203.05	229	215.90	51

Average of 2.983 to 2.993 min.: 3E84407.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
216.05	242	231.00	119	246.05	992	265.90	96
217.00	2661	234.00	57	247.00	127	270.00	57
218.00	410	235.00	69	249.00	74	272.00	75
221.10	3167	236.10	120	253.05	209	273.05	977
222.10	97	237.00	145	253.60	159	274.10	2351
223.05	650	239.20	59	255.10	25365	275.10	12241
224.10	5464	241.10	73	256.10	3942	276.05	1686
225.10	1599	242.00	384	257.10	221	277.05	828
227.10	2277	243.10	450	258.10	1163	278.10	111
228.05	326	244.10	5260	259.00	148	285.05	173
229.05	453	245.05	678	265.05	548	293.00	203

Average of 2.983 to 2.993 min.: 3E84407.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
294.10	51	324.10	214	366.00	160	441.10	5574
294.90	77	327.00	187	372.05	683	442.10	32954
296.10	3426	333.30	61	373.00	81	443.10	6168
297.05	482	334.05	752	383.00	181	444.10	438

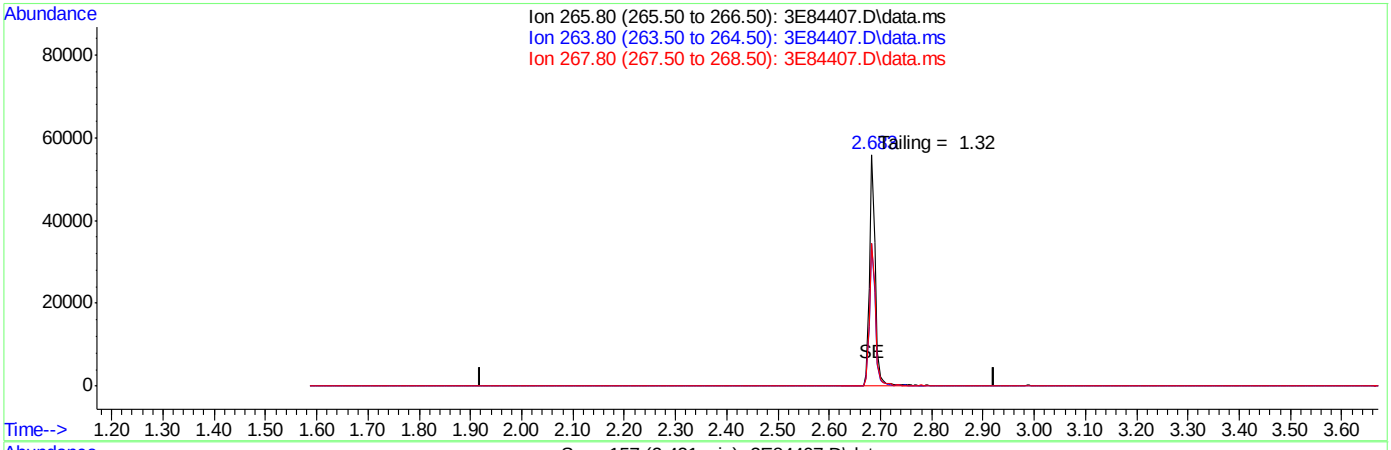
302.20	59	334.90	99	402.00	187
303.05	530	341.10	91	403.05	252
313.90	75	346.00	273	404.10	64
314.95	369	352.10	454	421.10	218
316.10	63	353.10	186	422.05	209
317.00	52	354.05	402	423.10	2229
323.10	1289	365.00	1457	424.10	354

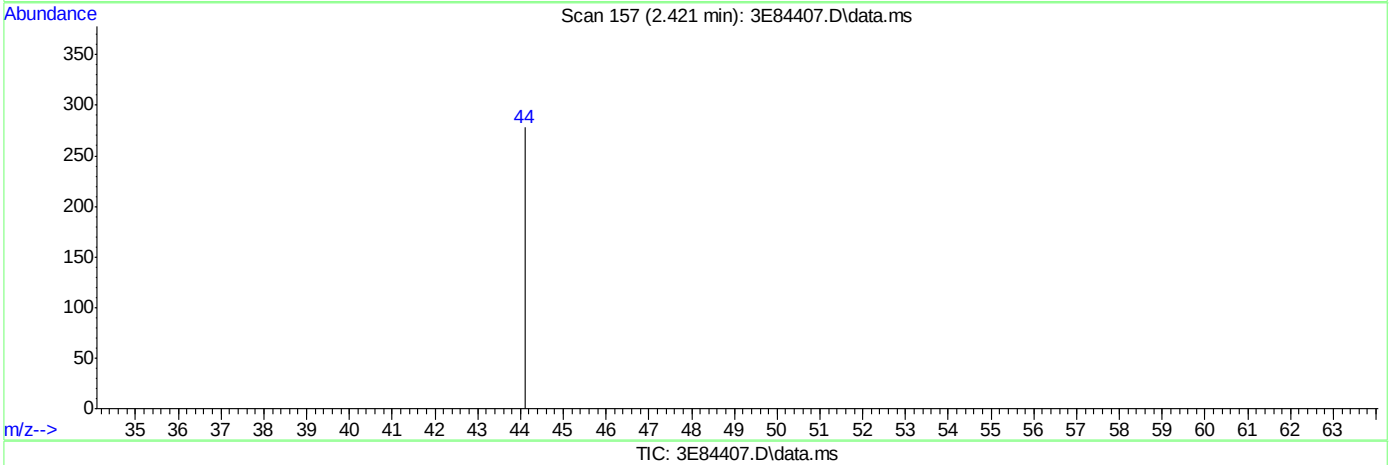
SGS ACCUTEST JC24133

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E3E3700\
Data File : 3E84407.D
Acq On : 22 Jun 2016 6:13 pm
Operator : seanb1
Sample : dftpp
Misc : op94630a,e3e3700
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 22 18:18:55 2016
Quant Method : C:\msdchem\1\METHODS\dftpp3e.M
Quant Title : Semi Volatile GC/MS,zb-5msplus 30m x .25mm x .25Sat Aug 08 13:07:52 2015
QLast Update : Sat Aug 08 13:07:52 2015
Response via : Initial Calibration





TIC: 3E84407.D\data.ms

(1) Pentachlorophenol (t)

2.421min (-2.421) 0.00ppb

response 0

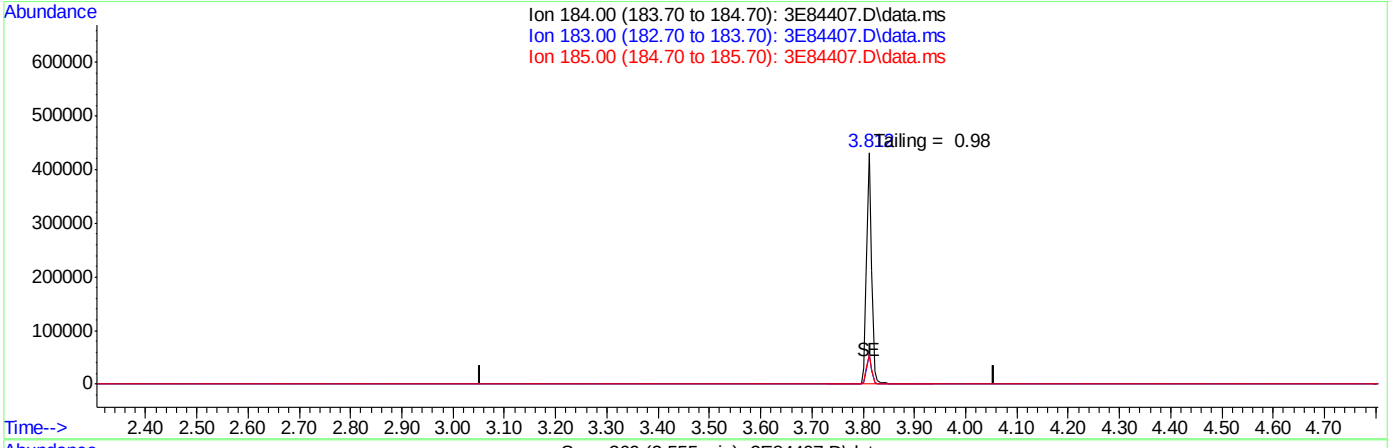
Ion	Exp%	Act%
265.80	100	0.00
263.80	62.20	0.00#
267.80	64.70	0.00#
0.00	0.00	0.00

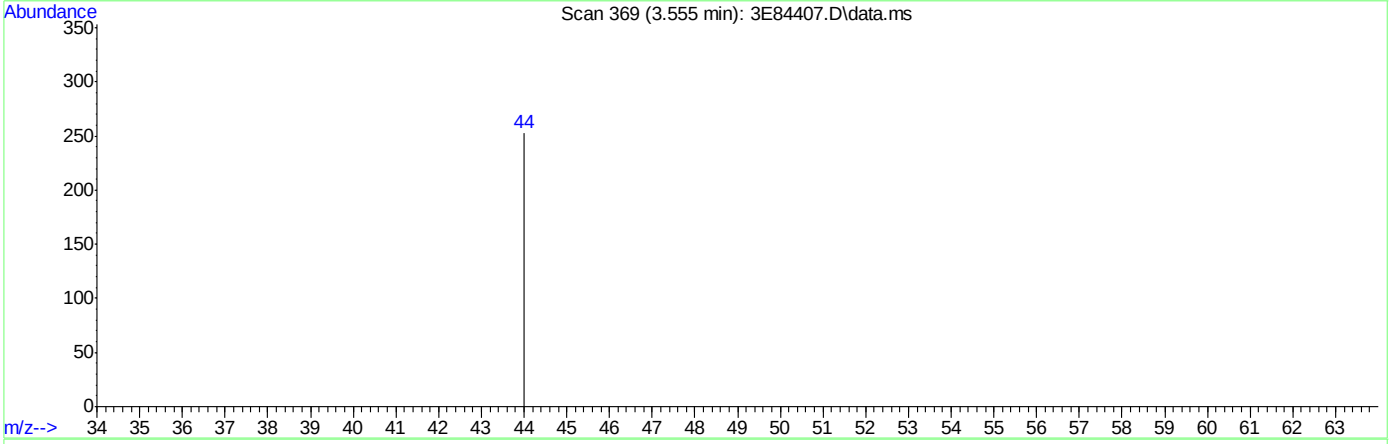
SGS ACCUTEST JC24133

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E3E3700\
Data File : 3E84407.D
Acq On : 22 Jun 2016 6:13 pm
Operator : seanb1
Sample : dftpp
Misc : op94630a,e3e3700
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 22 18:18:55 2016
Quant Method : C:\msdchem\1\METHODS\dftpp3e.M
Quant Title : Semi Volatile GC/MS,zb-5msplus 30m x .25mm x .25Sat Aug 08 13:07:52 2015
QLast Update : Sat Aug 08 13:07:52 2015
Response via : Initial Calibration





TIC: 3E84407.D\data.ms

(2) Benzidine (t)

3.555min (-3.555) 0.00ppb

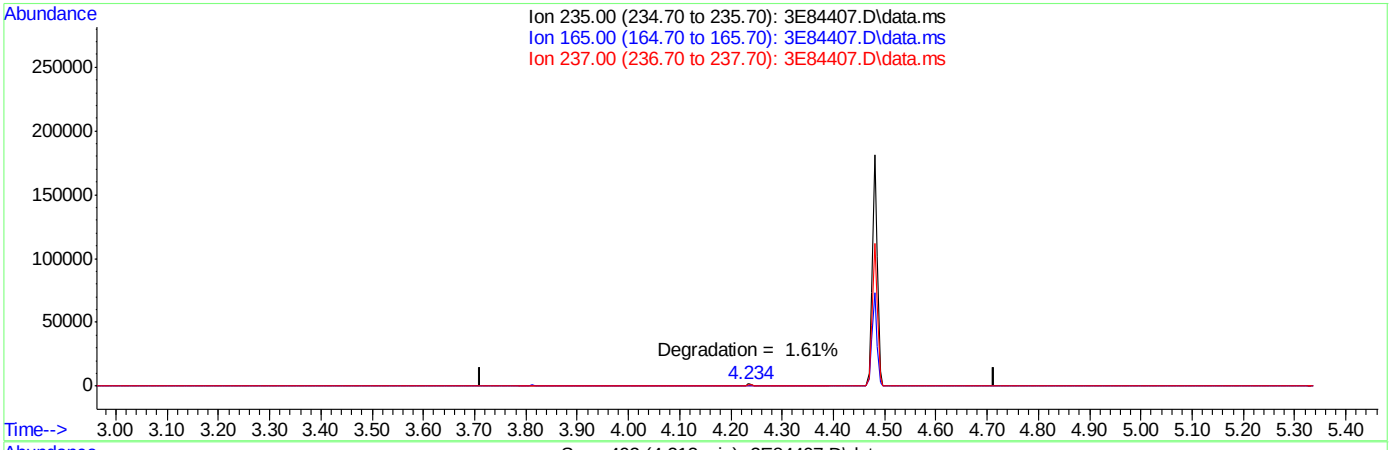
response 0

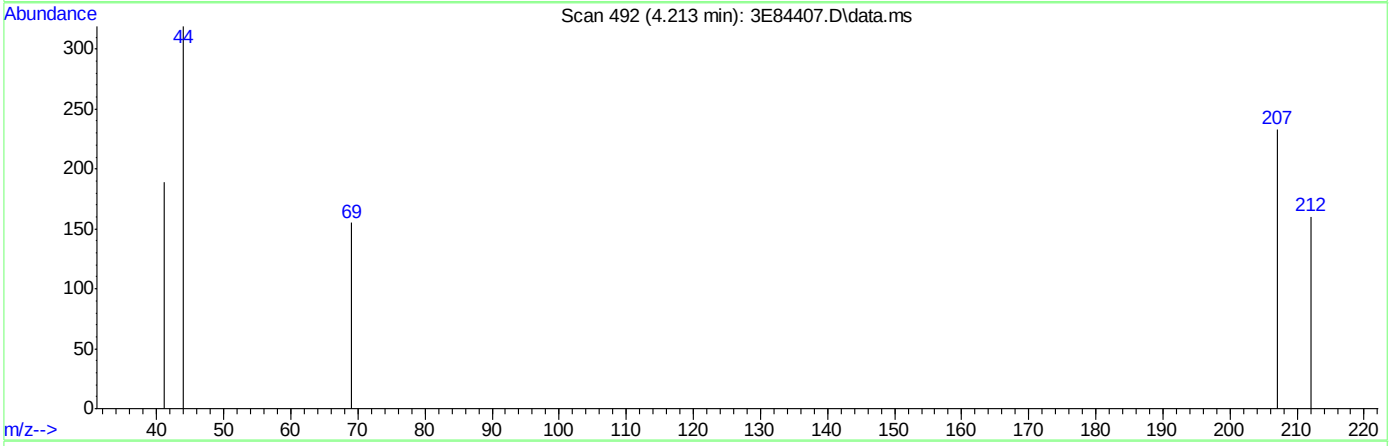
Ion	Exp%	Act%
184.00	100	0.00
183.00	13.20	0.00
185.00	15.40	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E3E3700\
Data File : 3E84407.D
Acq On : 22 Jun 2016 6:13 pm
Operator : seanb1
Sample : dftpp
Misc : op94630a,e3e3700
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 22 18:18:55 2016
Quant Method : C:\msdchem\1\METHODS\dftpp3e.M
Quant Title : Semi Volatile GC/MS,zb-5msplus 30m x .25mm x .25Sat Aug 08 13:07:52 2015
QLast Update : Sat Aug 08 13:07:52 2015
Response via : Initial Calibration





TIC: 3E84407.D\data.ms

(3) PP-DDT (t)

4.213min 0.00ppb d

response 0

Ion	Exp%	Act%
235.00	100	0.00
165.00	0.10	0.00
237.00	0.10	0.00
0.00	0.00	0.00

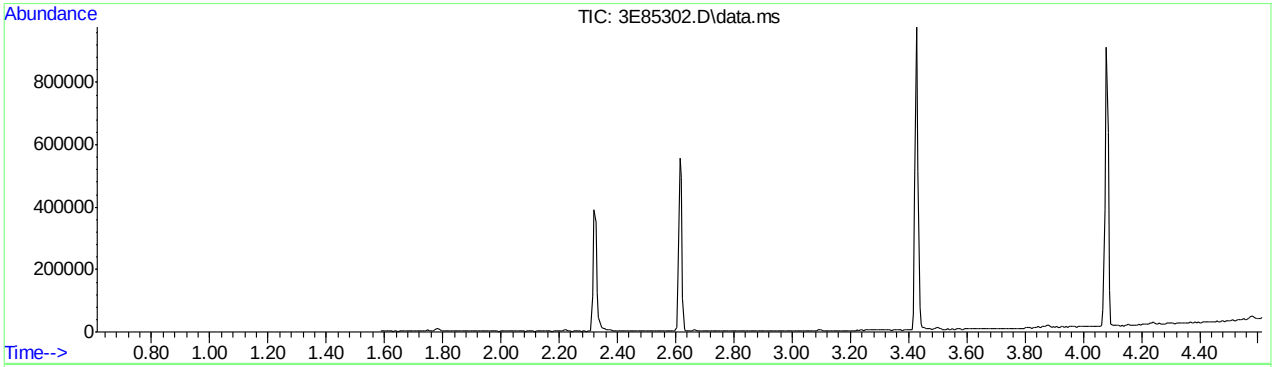
SGS ACCUTEST JC24133

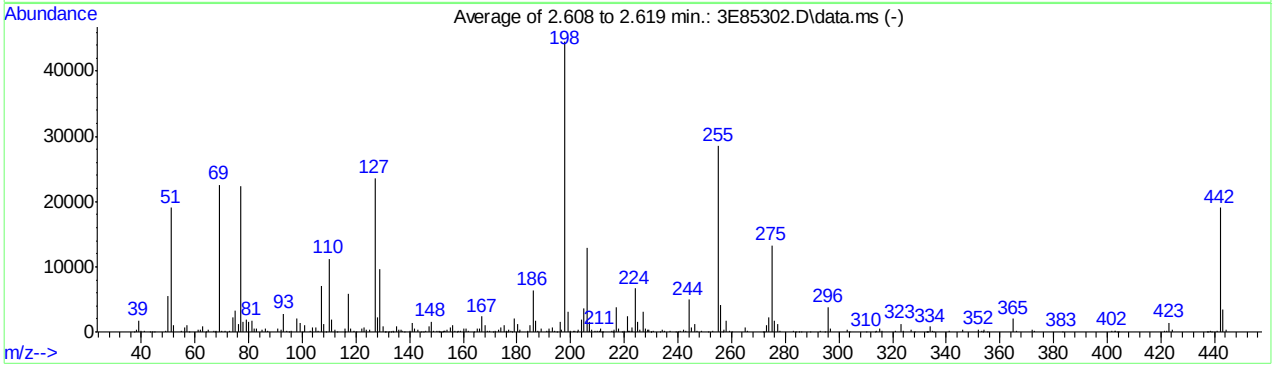
DFTPP

Data Path : C:\msdchem\1\DATA\E3E3739\
Data File : 3E85302.D
Acq On : 19 Jul 2016 12:17 pm
Operator : ashleyn
Sample : dftpp
Misc : op95610,e3e3739
ALS Vial : 1 Sample Multiplier: 1

Integration File: RTEINT.P

Method : C:\msdchem\1\METHODS\dftpp3e.M
Title : Semi Volatile GC/MS,zb-5msplus 30m x .25mm x .25Wed Jul 06 12:45:02 2016
Last Update : Wed Jul 06 12:45:02 2016





AutoFind: Scans 192, 193, 194; Background Corrected with Scan 188

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	42.8	19068	PASS
68	69	0.00	2	0.7	152	PASS
69	198	0.00	100	50.6	22544	PASS
70	69	0.00	2	0.6	133	PASS
127	198	40	60	53.0	23624	PASS
197	198	0.00	1	0.6	266	PASS
198	198	100	100	100.0	44549	PASS
199	198	5	9	6.8	3025	PASS
275	198	10	30	29.8	13297	PASS
365	198	1	100	4.6	2041	PASS
441	443	0.10	100	5.1	174	PASS
442	198	40	100	42.8	19075	PASS
443	442	17	23	18.0	3428	PASS

SGS ACCUTEST JC24133

Average of 2.608 to 2.619 min.: 3E85302.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
37.20	53	52.05	1013	67.30	58	79.05	1832
38.05	297	55.00	128	68.00	152	80.00	1484
39.05	1750	56.05	712	69.00	22544	81.05	1744
40.00	204	57.00	1123	70.00	133	81.95	436
41.05	158	58.00	61	71.15	203	83.05	504
43.05	28	61.00	330	73.00	206	85.05	301
44.00	21	61.95	282	74.05	2275	86.05	454
45.00	53	63.05	819	75.05	3266	87.00	138
49.00	232	64.10	52	76.15	1156	91.00	463
50.10	5542	65.05	413	77.10	22403	92.05	415
51.10	19068	67.05	140	78.05	1601	93.00	2779

Average of 2.608 to 2.619 min.: 3E85302.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
94.05	252	107.10	7074	119.10	108	131.00	69
95.10	43	108.00	1181	120.10	63	132.00	58
96.00	151	109.00	73	122.00	597	133.10	65
98.05	2122	110.05	11228	123.05	681	133.80	134
99.00	1440	111.05	1860	124.00	368	134.00	83
100.00	65	112.05	276	125.05	322	135.05	837
101.05	1007	112.90	53	127.05	23624	136.05	360
103.05	247	115.80	68	128.00	2175	137.00	277
104.00	658	116.05	490	129.00	9586	137.20	119
105.05	649	117.05	5774	130.05	856	138.10	58
106.00	184	117.95	500	130.80	74	140.05	143

Average of 2.608 to 2.619 min.: 3E85302.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
141.00	1305	151.10	82	157.90	209	170.00	163
142.00	520	151.50	91	159.05	143	171.10	55
143.05	363	152.20	50	160.00	513	171.90	207
144.30	68	152.85	182	160.95	488	172.95	348
145.00	64	153.00	130	161.95	142	174.00	611
146.00	253	153.20	112	164.00	60	175.05	1028
147.05	803	154.10	292	165.00	544	176.10	260
148.00	1622	155.05	683	166.05	546	176.50	60
148.95	256	156.05	1067	167.00	2333	176.95	380
150.15	114	157.05	166	168.00	1076	177.85	123
150.90	157	157.60	50	169.05	219	178.10	81

Average of 2.608 to 2.619 min.: 3E85302.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
179.00	2031	191.80	109	201.60	211	210.80	237
180.05	1266	192.05	465	202.40	69	211.05	515
180.80	62	193.05	749	203.00	374	211.70	85
181.10	419	193.90	137	204.05	1944	212.10	62
184.05	201	194.90	70	205.10	3558	215.15	110
185.00	976	196.00	1570	206.10	12984	215.90	61
186.05	6396	196.70	266	206.90	199	216.20	347
187.05	1712	198.00	44549	207.10	1471	217.00	3758
187.95	156	198.95	3025	208.00	433	217.95	480
189.00	584	200.00	226	208.95	239	219.00	51
191.00	239	200.95	124	209.95	189	219.90	98

Average of 2.608 to 2.619 min.: 3E85302.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
221.05	2390	229.10	323	241.90	390	256.90	57
221.70	93	229.80	51	243.00	209	257.15	408
221.90	255	230.10	64	244.10	4931	258.05	1755
222.90	97	231.00	260	245.05	698	259.05	236

dftpp3e.M Tue Jul 19 16:20:20 2016 MS3E Page: 2

223.05	737	233.10	68	246.05	1142	260.00	59
224.10	6699	234.00	276	246.90	223	265.00	688
225.05	1620	234.95	228	248.95	148	265.95	131
225.95	264	237.00	214	251.10	53	271.80	50
227.05	3080	239.00	77	253.00	220	272.10	75
228.00	509	239.90	51	255.05	28520	273.00	954
228.90	315	241.00	200	256.00	4207	274.00	2232

Average of 2.608 to 2.619 min.: 3E85302.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
275.05	13297	296.05	3810	324.05	225	352.05	376
276.00	1726	297.00	481	327.00	287	353.00	206
277.05	1167	302.90	358	328.00	80	353.80	57
278.00	104	304.00	75	332.60	51	354.05	327
283.05	146	310.20	57	332.90	72	355.20	58
284.00	57	313.40	56	333.10	84	365.00	2041
285.00	82	313.95	174	334.05	798	365.95	250
286.10	50	315.05	535	334.90	132	372.10	428
289.10	58	316.05	263	335.30	66	373.00	138
293.00	234	320.90	108	340.95	156	383.10	81
294.80	70	323.00	1221	345.90	277	401.85	212

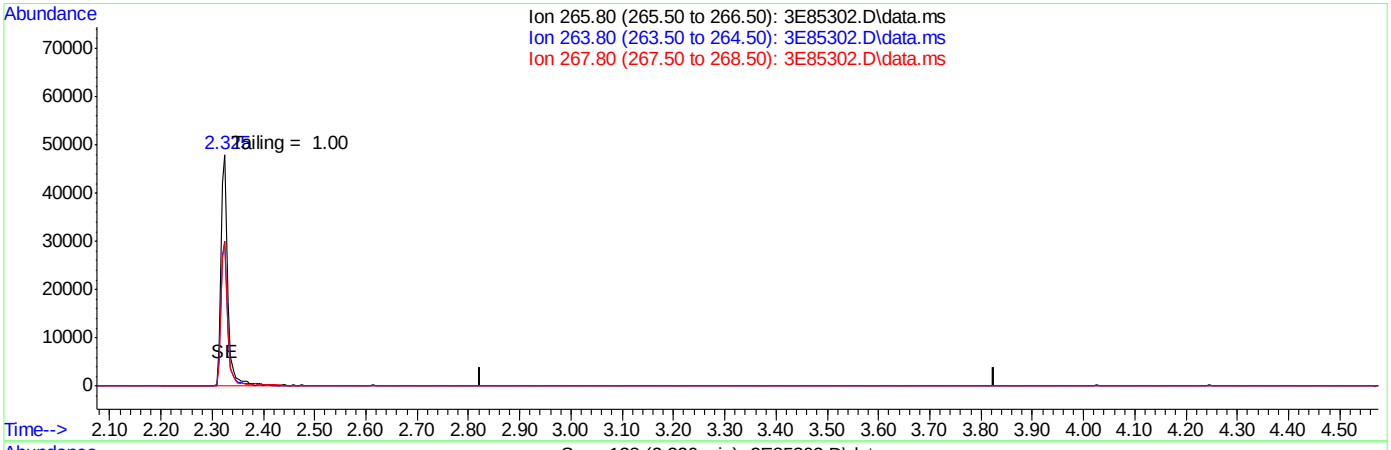
Average of 2.608 to 2.619 min.: 3E85302.D\data.ms
dftpp
Modified:subtracted

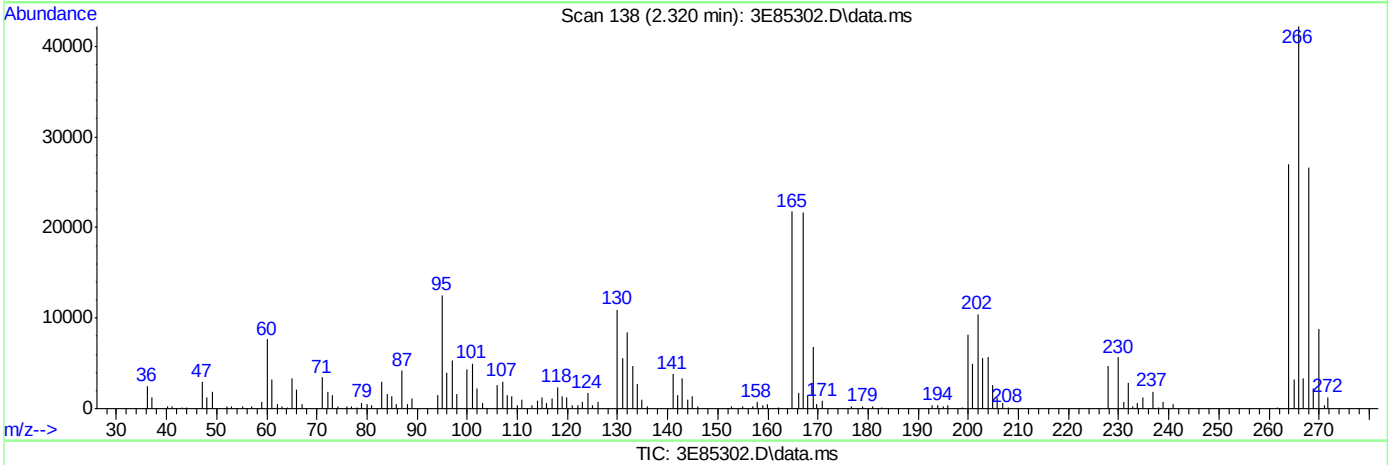
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
402.90	115	438.90	83				
403.10	188	441.10	174				
403.90	60	442.10	19075				
404.10	68	443.10	3428				
421.10	154	444.10	319				
422.10	189						
423.10	1439						
424.10	322						
437.00	53						
437.70	58						
438.50	98						

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E3E3739\
Data File : 3E85302.D
Acq On : 19 Jul 2016 12:17 pm
Operator : ashleyn
Sample : dftpp
Misc : op95610,e3e3739
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 19 12:23:22 2016
Quant Method : C:\msdchem\1\METHODS\dftpp3e.M
Quant Title : Semi Volatile GC/MS,zb-5msplus 30m x .25mm x .25Wed Jul 06 12:45:02 2016
QLast Update : Wed Jul 06 12:45:02 2016
Response via : Initial Calibration





TIC: 3E85302.D\data.ms

(1) Pentachlorophenol (t)

3.325min (-3.325) 0.00ppb

response 0

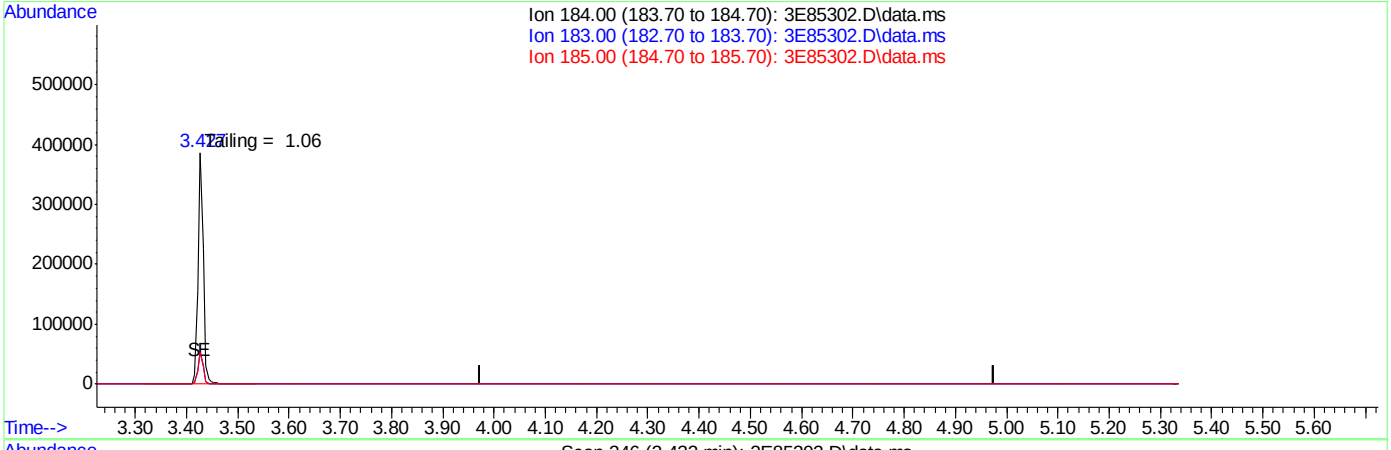
Ion	Exp%	Act%
265.80	100	0.00
263.80	62.20	0.00#
267.80	64.70	0.00#
0.00	0.00	0.00

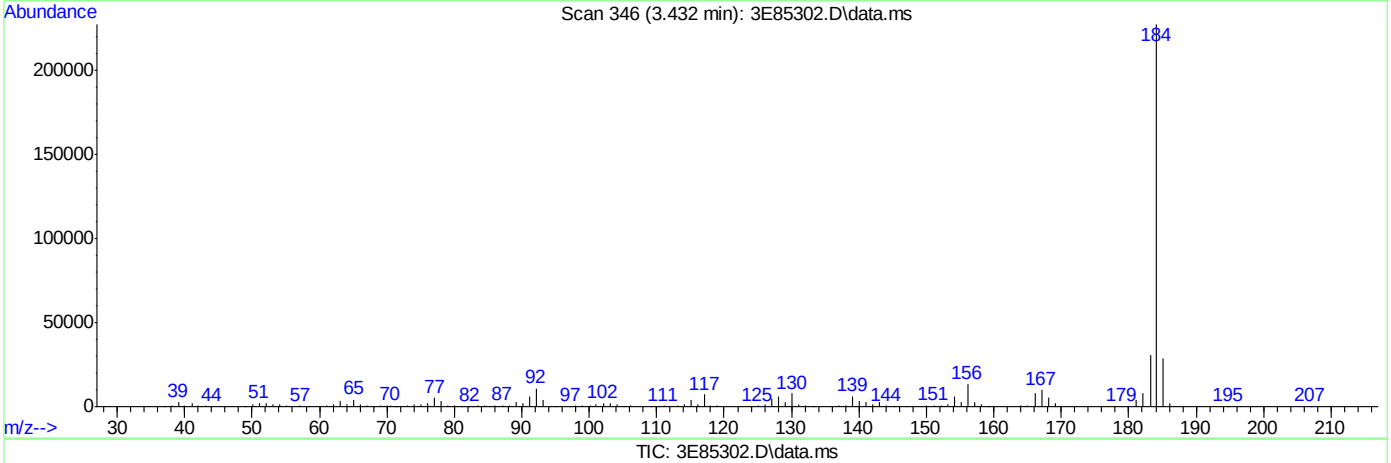
SGS ACCUTEST JC24133

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E3E3739\
Data File : 3E85302.D
Acq On : 19 Jul 2016 12:17 pm
Operator : ashleyn
Sample : dftpp
Misc : op95610,e3e3739
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 19 12:23:22 2016
Quant Method : C:\msdchem\1\METHODS\dftpp3e.M
Quant Title : Semi Volatile GC/MS,zb-5msplus 30m x .25mm x .25Wed Jul 06 12:45:02 2016
QLast Update : Wed Jul 06 12:45:02 2016
Response via : Initial Calibration





TIC: 3E85302.D\data.ms

(2) Benzidine (t)

4.475min (-4.475) 0.00ppb

response 0

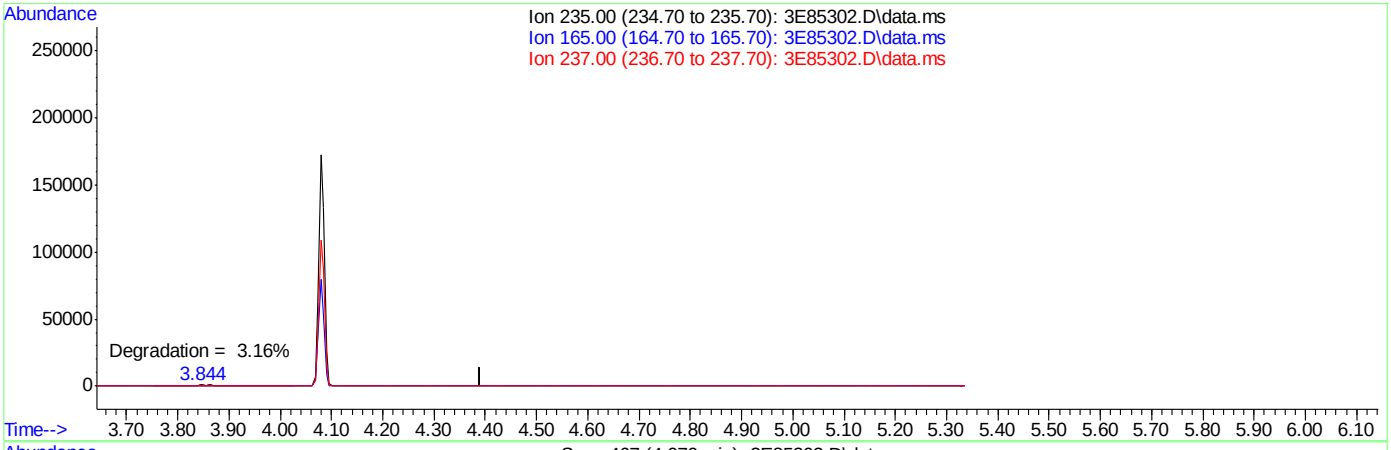
Ion	Exp%	Act%
184.00	100	0.00
183.00	13.20	0.00
185.00	15.40	0.00
0.00	0.00	0.00

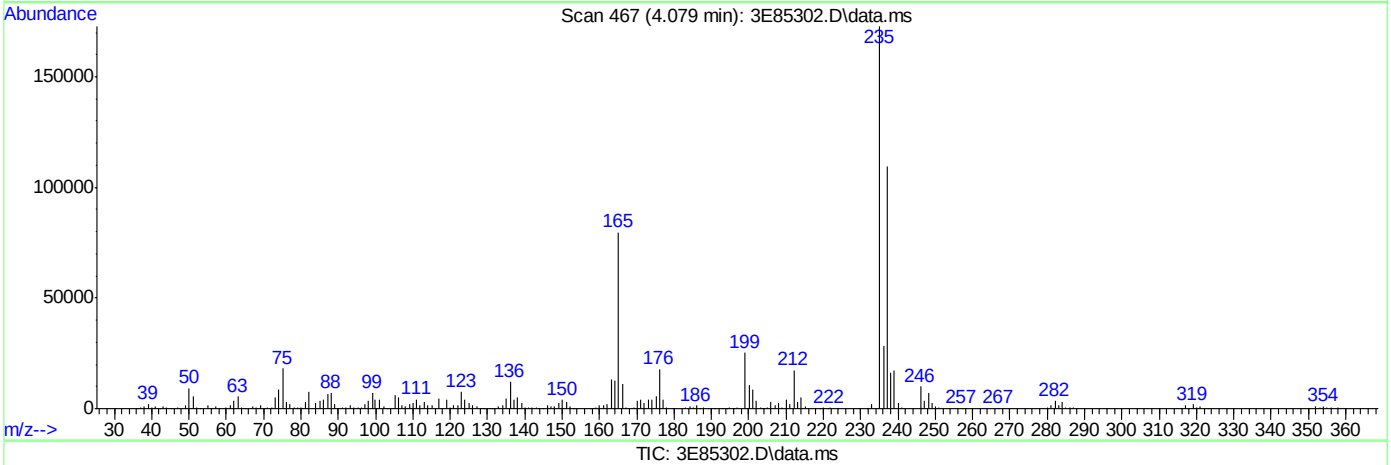
SGS ACCUTEST JC24133

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E3E3739\
Data File : 3E85302.D
Acq On : 19 Jul 2016 12:17 pm
Operator : ashleyn
Sample : dftpp
Misc : op95610,e3e3739
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 19 12:23:22 2016
Quant Method : C:\msdchem\1\METHODS\dftpp3e.M
Quant Title : Semi Volatile GC/MS,zb-5msplus 30m x .25mm x .25Wed Jul 06 12:45:02 2016
QLast Update : Wed Jul 06 12:45:02 2016
Response via : Initial Calibration





TIC: 3E85302.D\data.ms

(3) PP-DDT (t)

4.892min (-4.892) 0.00ppb

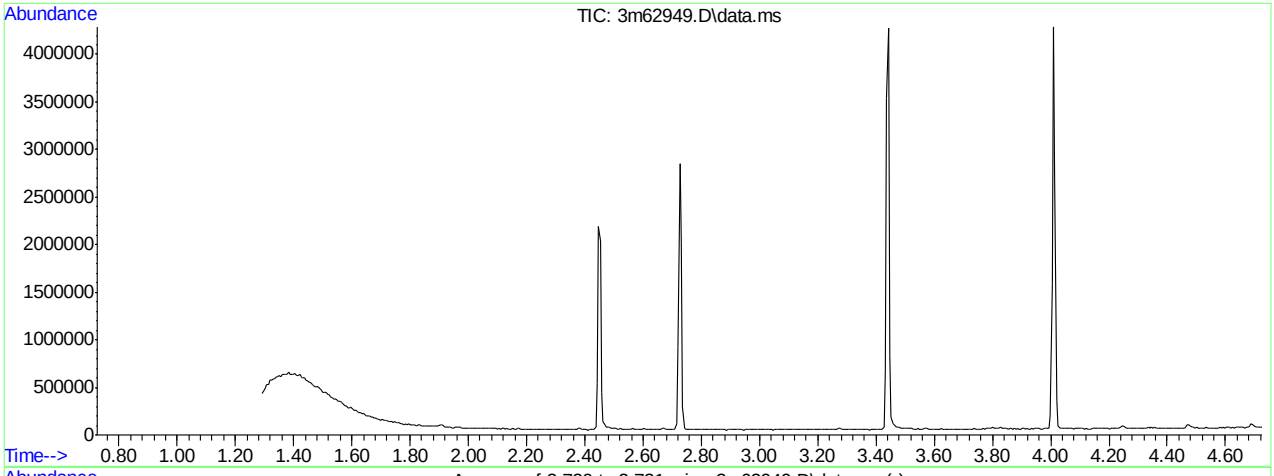
response 0

Ion	Exp%	Act%
235.00	100	0.00
165.00	0.10	0.00#
237.00	0.10	0.00#
0.00	0.00	0.00

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

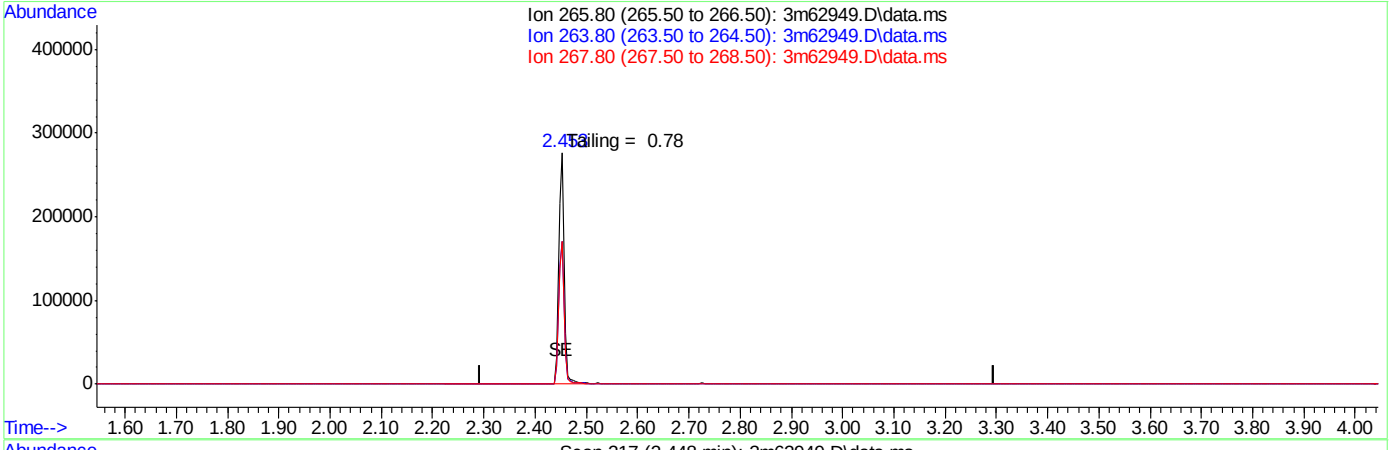
Average of 2.720 to 2.731 min.: 3m62949.D\data.ms
dftpp
Modified:subtracted

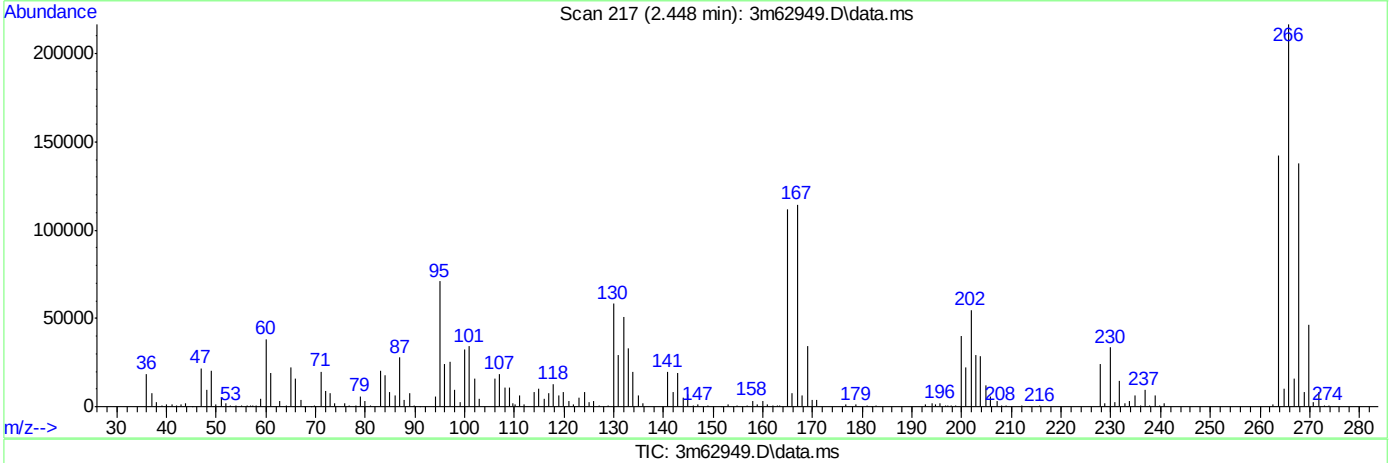
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
373.20	205	422.10	457	444.90	96		
382.80	520	422.90	546				
390.05	439	423.05	9075				
390.90	98	424.00	2332				
391.30	83	424.70	90				
400.70	124	425.50	77				
402.00	1136	439.80	286				
403.00	1853	441.00	26169				
404.05	626	442.00	174995				
405.00	113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

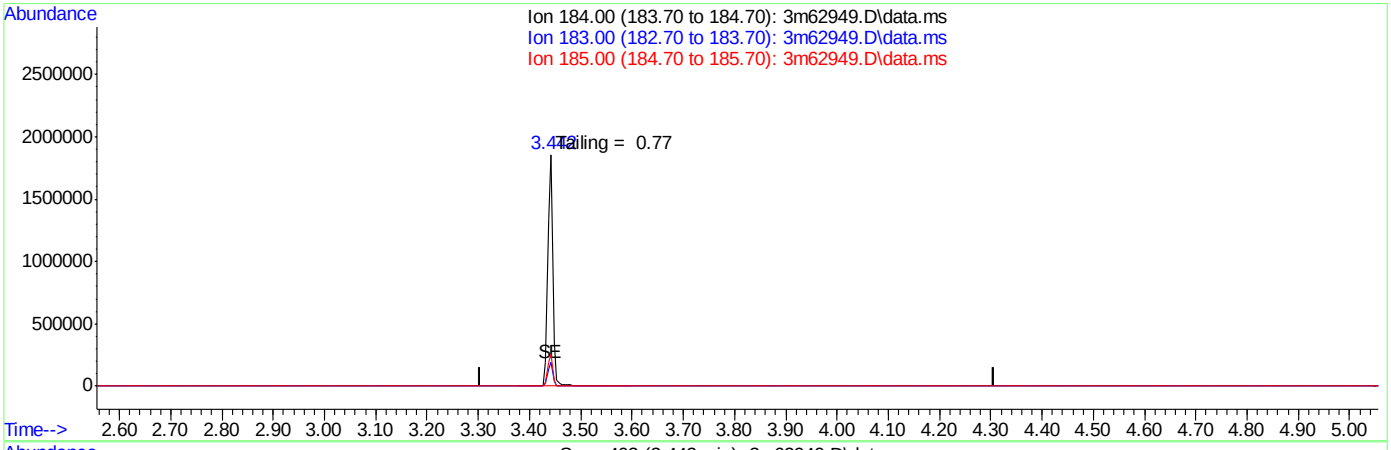
Ion	Exp%	Act%
265.80	100	0.00
263.80	62.80	0.00#
267.80	64.10	0.00#
0.00	0.00	0.00

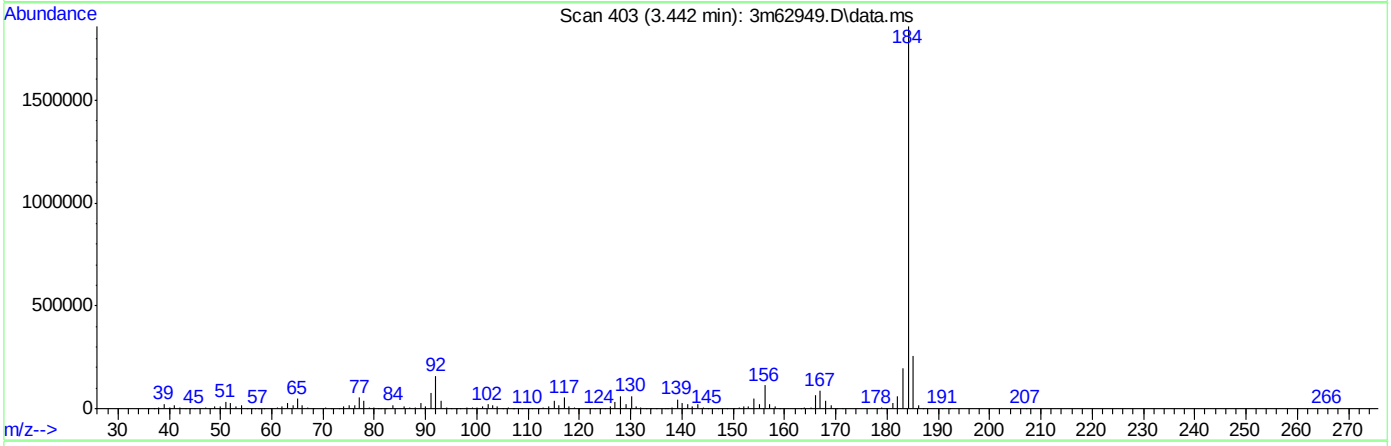
SGS ACCUTEST JC24133

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

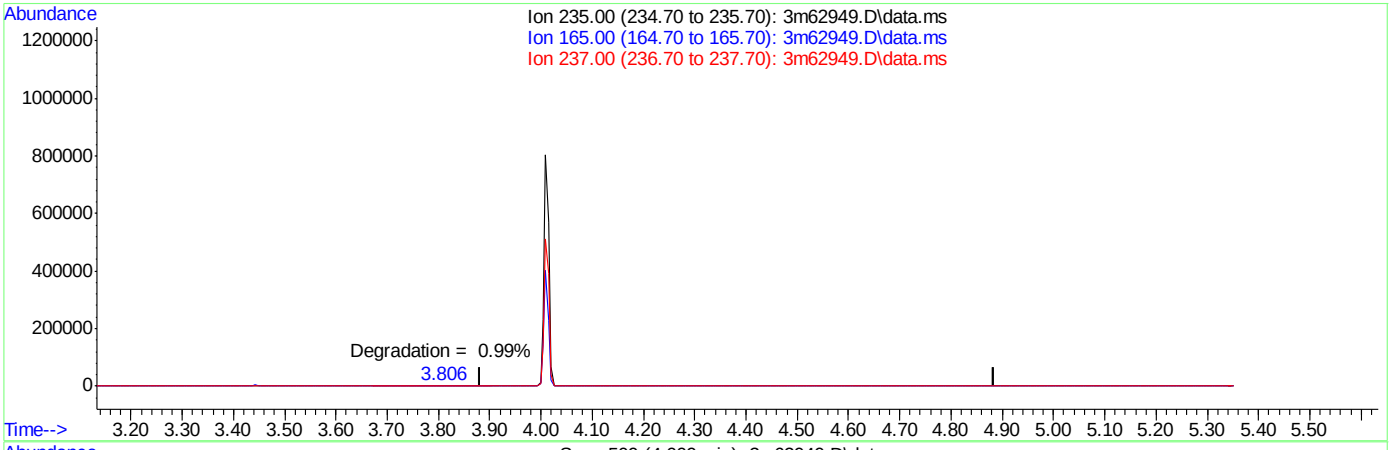
Ion	Exp%	Act%
184.00	100	0.00
183.00	11.50	0.00
185.00	14.40	0.00
0.00	0.00	0.00

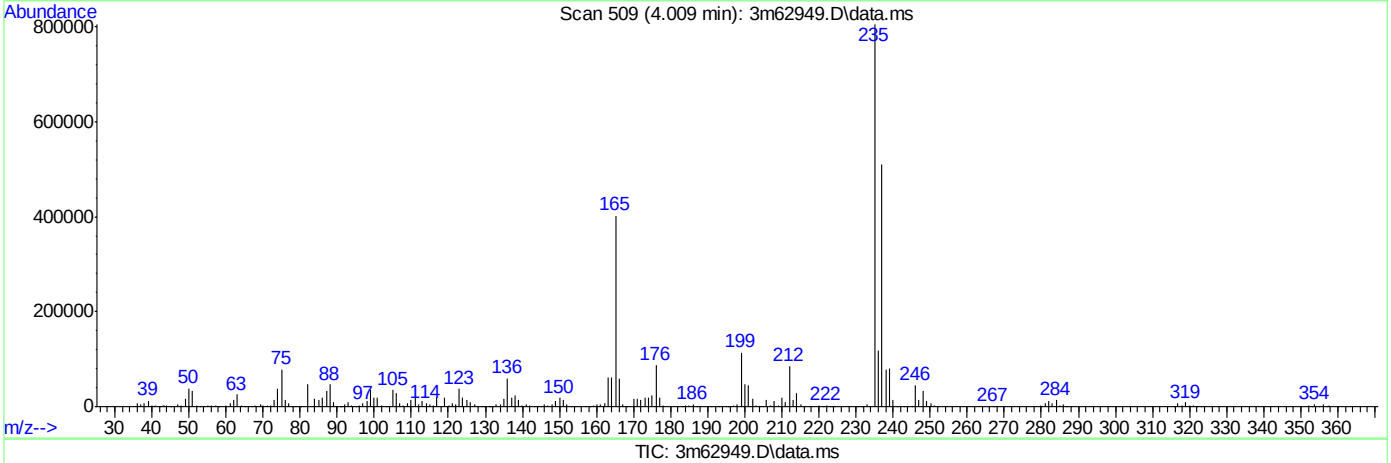
SGS ACCUTEST JC24133

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

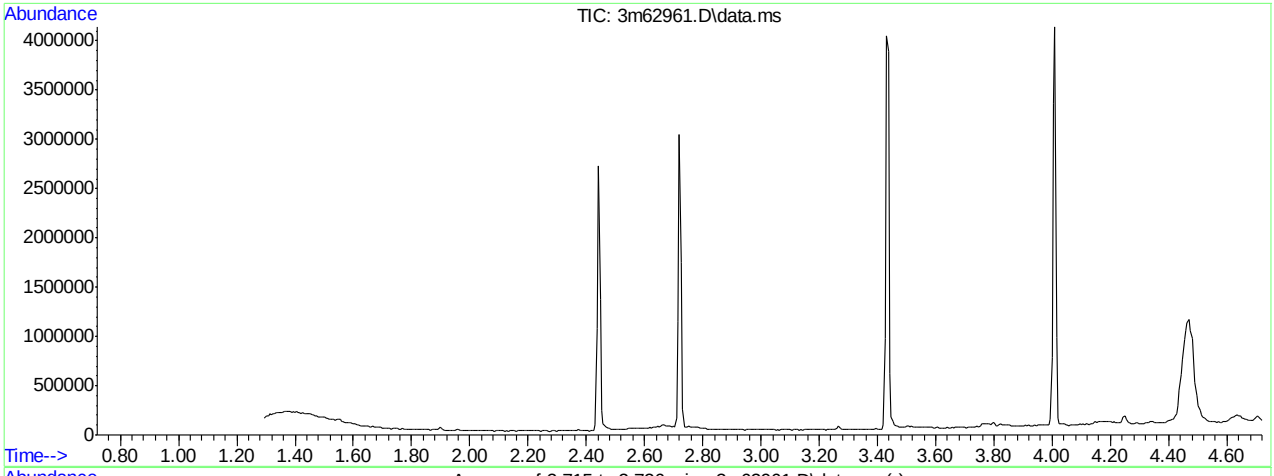
Ion	Exp%	Act%
235.00	100	0.00
165.00	0.00	0.00
237.00	0.00	0.00
0.00	0.00	0.00

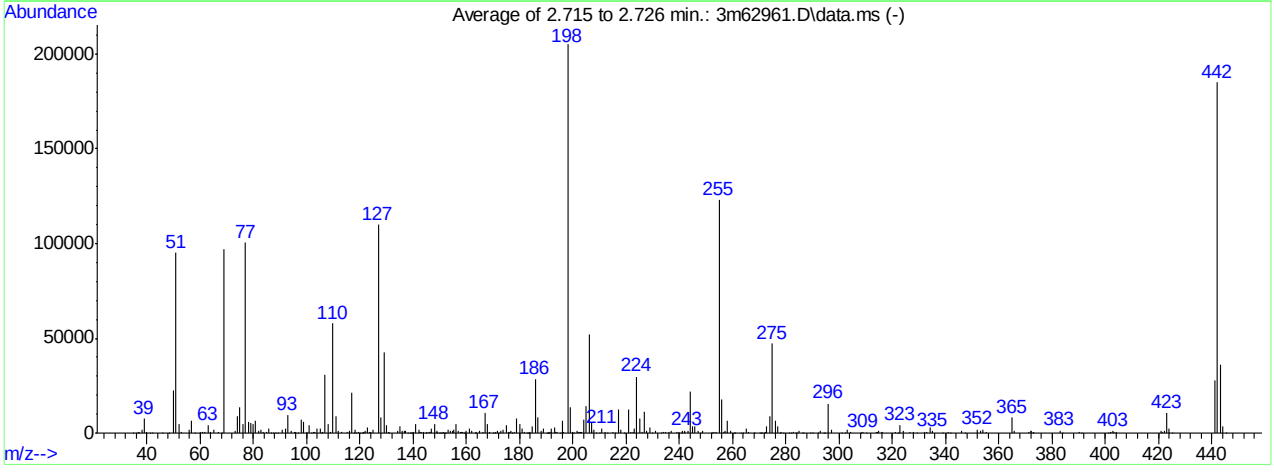
SGS ACCUTEST JC24133

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

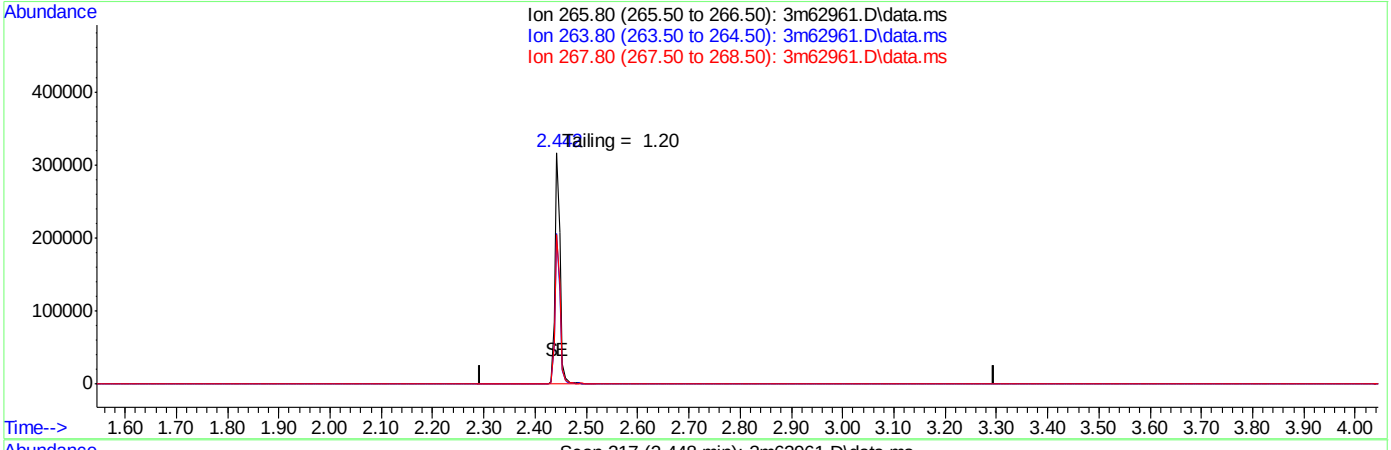
Average of 2.715 to 2.726 min.: 3m62961.D\data.ms
dftpp
Modified:subtracted

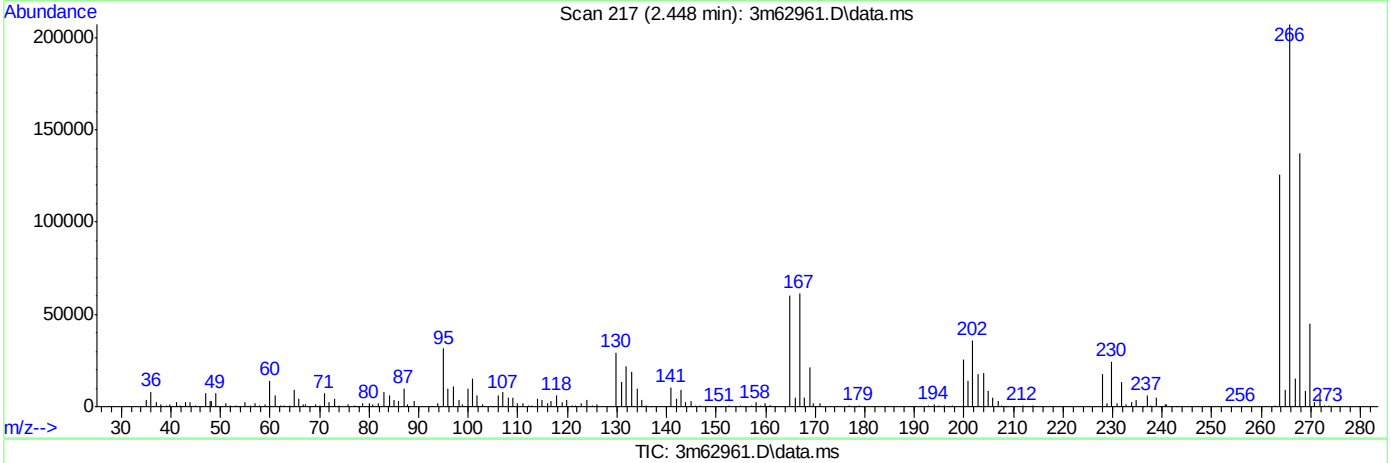
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
329.15	298	353.05	1455	384.00	285	422.00	1282
332.10	581	353.95	1766	390.10	380	423.05	10484
332.95	687	355.15	334	390.95	306	423.80	242
334.05	3119	365.00	8163	401.10	123	424.00	2139
335.05	1076	365.85	960	401.80	712	424.90	290
338.80	110	371.05	411	402.00	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

7.5.5.1

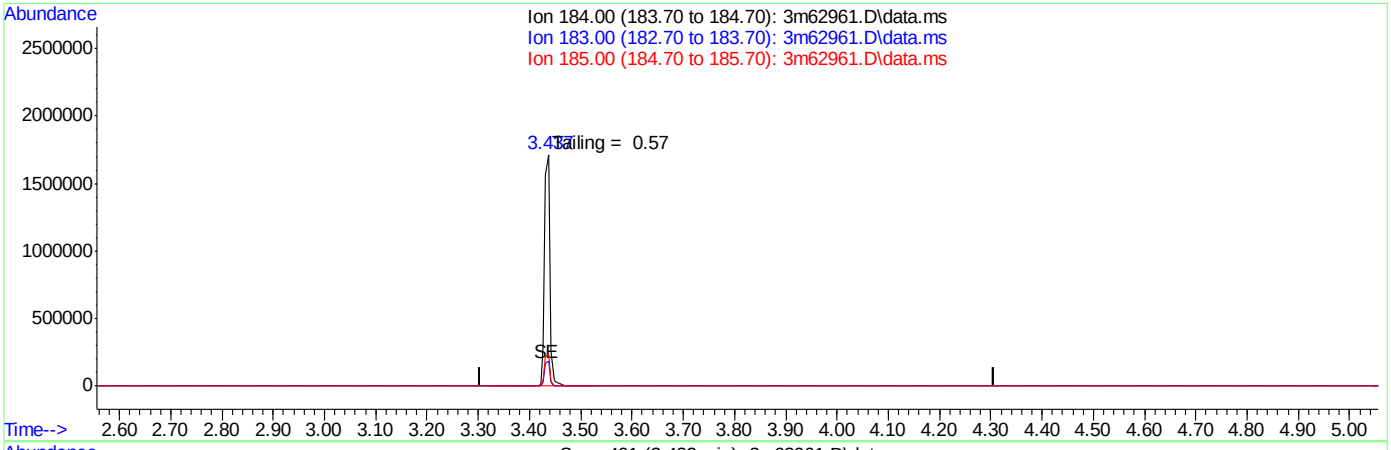
7

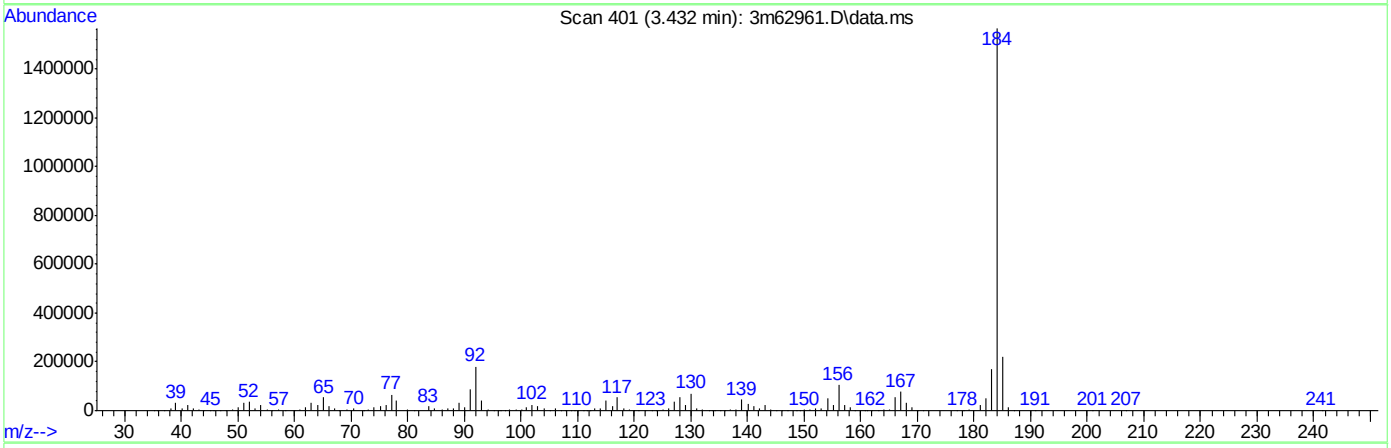
SGS ACCUTEST JC24133

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

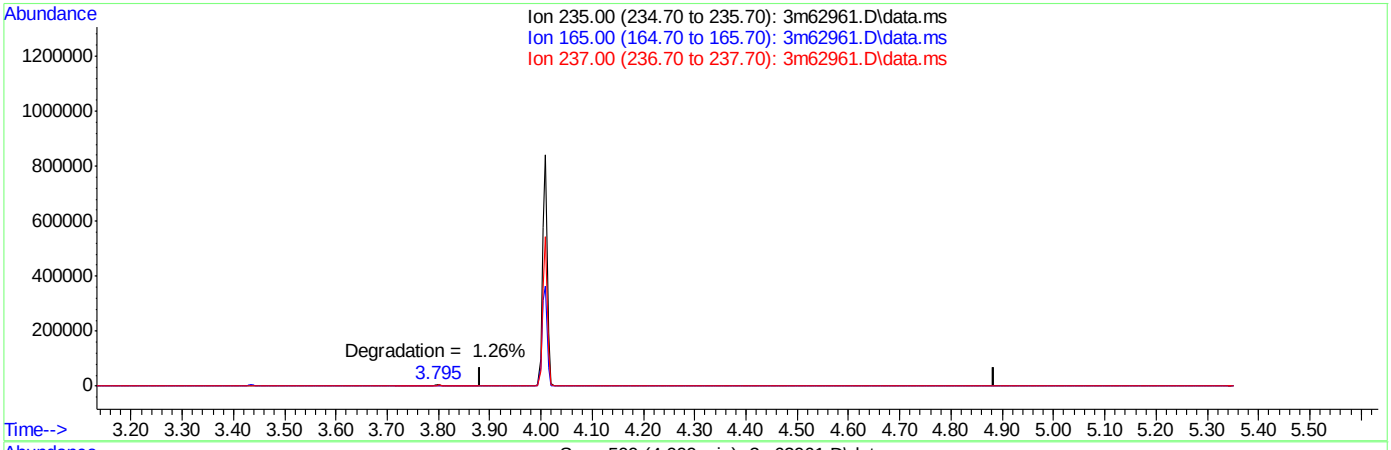
Ion	Exp%	Act%
184.00	100	0.00
183.00	11.50	0.00
185.00	14.40	0.00
0.00	0.00	0.00

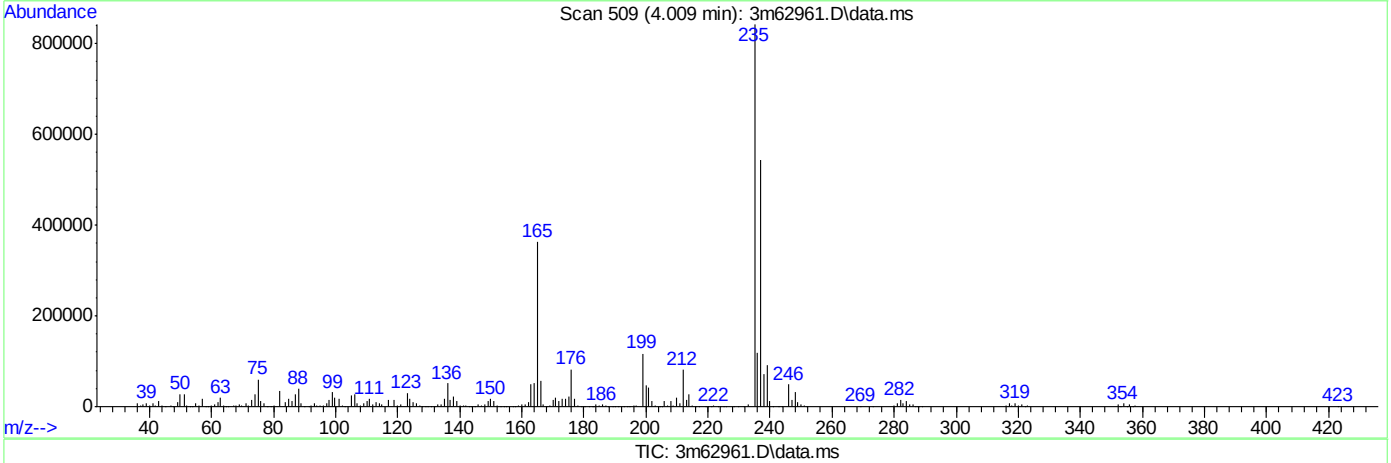
SGS ACCUTEST JC24133

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

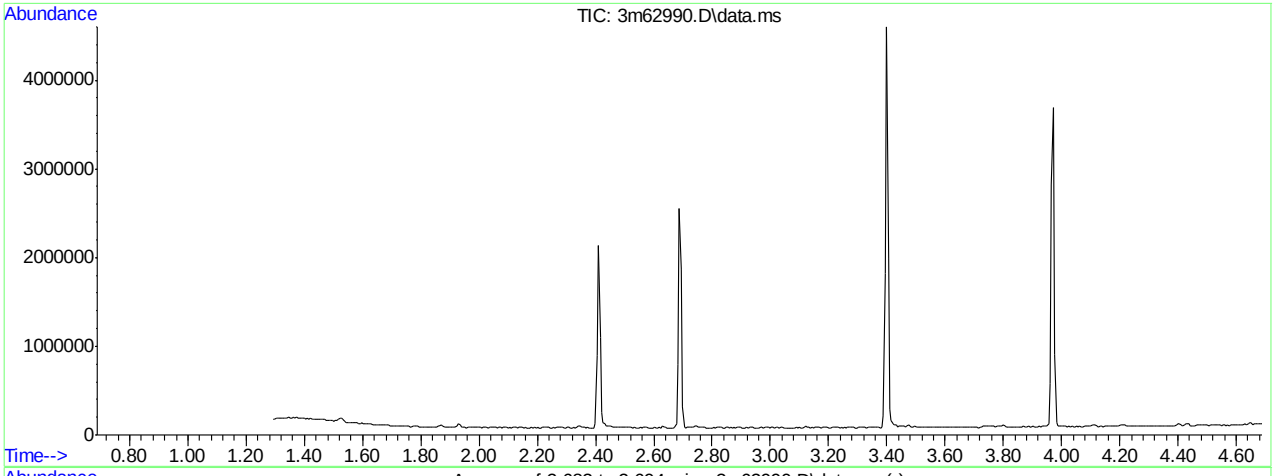
Ion	Exp%	Act%
235.00	100	0.00
165.00	0.00	0.00
237.00	0.00	0.00
0.00	0.00	0.00

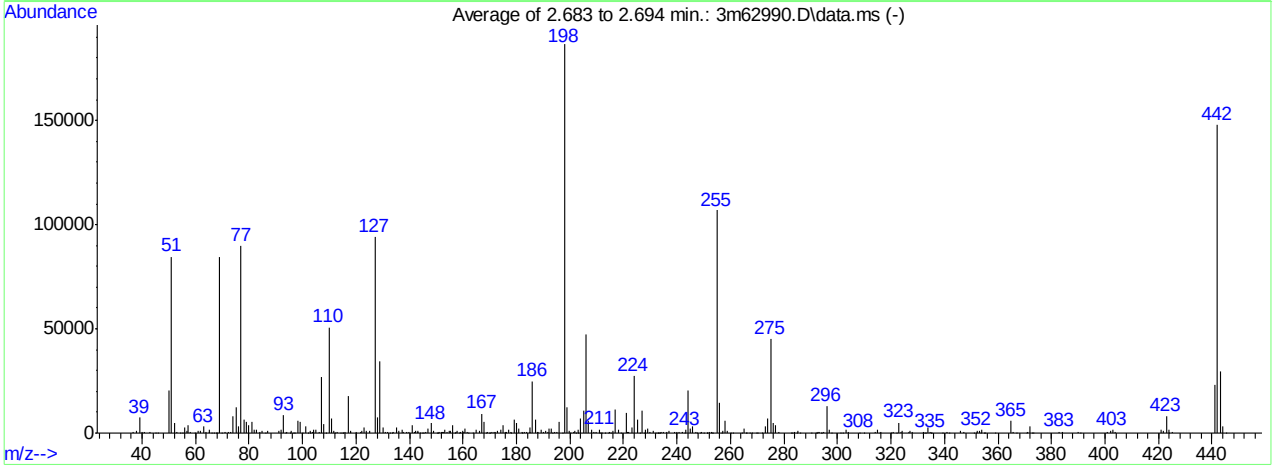
SGS ACCUTEST JC24133

DFTPP

Data File : C:\msdchem\1\DATA\E3M2979\3m62990.D Vial: 1
Acq On : 15 Jul 2016 9:36 pm Operator: juliusj
Sample : dftpp Inst : MS3M
Misc : op95160a,e3m2979 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 261, 262, 263; Background Corrected with Scan 257

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	45.3	84509	PASS
68	69	0.00	2	0.3	217	PASS
69	198	0.00	100	45.2	84206	PASS
70	69	0.00	2	0.3	233	PASS
127	198	40	60	50.5	94091	PASS
197	198	0.00	1	0.1	277	PASS
198	198	100	100	100.0	186475	PASS
199	198	5	9	6.5	12123	PASS
275	198	10	30	24.2	45036	PASS
365	198	1	100	3.1	5707	PASS
441	443	0.10	100	77.4	22968	PASS
442	198	40	100	79.3	147835	PASS
443	442	17	23	20.1	29688	PASS

3m62990.D DFTPP3M.M Sun Jul 17 14:28:54 2016 RPT1

Average of 2.683 to 2.694 min.: 3m62990.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.85	415	53.05	569	64.00	306	73.10	498
37.90	985	54.10	73	64.95	1635	74.05	8200
39.00	7331	54.90	200	65.20	352	75.00	12615
40.05	311	56.00	2763	66.10	132	76.00	3479
40.70	377	56.80	1256	66.85	233	76.20	1001
43.00	336	57.00	3947	67.60	153	77.05	89581
44.85	103	58.15	341	68.00	217	78.05	6383
46.00	106	59.80	126	68.95	84206	79.00	5626
50.00	20515	61.00	982	69.95	233	80.00	3906
51.00	84509	62.00	1110	71.05	359	81.00	5272
52.00	4857	63.00	3204	72.10	316	81.90	1642

Average of 2.683 to 2.694 min.: 3m62990.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
82.95	1555	95.95	825	103.95	1479	114.20	84
83.95	597	96.70	95	105.00	1898	114.90	270
84.95	1155	97.10	134	106.05	710	115.10	102
85.95	107	98.05	5938	107.00	27117	116.00	673
87.00	1032	99.00	5429	107.95	4231	117.00	17740
90.95	1346	99.90	134	108.80	230	117.90	898
92.10	1644	101.00	3388	110.00	50800	118.10	664
93.00	8615	101.90	98	111.00	7250	119.90	319
93.85	192	102.80	207	111.85	922	121.85	722
94.20	463	103.00	1113	112.20	206	122.10	856
95.15	17	103.80	475	113.05	384	123.00	2691

Average of 2.683 to 2.694 min.: 3m62990.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
124.00	1186	135.05	2576	144.00	186	152.15	358
124.95	1085	135.95	1304	144.90	120	152.80	425
127.00	94091	137.05	1500	145.20	286	153.05	1581
128.00	7420	137.80	534	145.95	791	153.95	816
129.00	34704	139.10	373	147.00	2219	154.90	882
129.95	2558	139.95	362	147.95	4791	155.10	1341
130.95	678	140.95	3701	148.90	1224	155.95	3547
131.95	326	141.90	332	150.05	279	156.90	278
132.65	156	142.10	1049	150.60	128	157.15	746
133.60	124	142.90	911	151.20	775	157.75	1058
133.95	632	143.10	331	151.80	327	158.70	252

Average of 2.683 to 2.694 min.: 3m62990.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
159.10	520	168.80	276	175.90	531	183.85	368
160.00	946	169.15	595	176.10	417	184.90	523
160.20	359	169.80	161	176.95	1874	185.10	2843
160.90	2339	170.00	104	177.70	129	186.00	24887
161.70	796	170.80	373	178.05	526	187.00	6640
162.10	105	171.65	336	178.95	6221	187.80	380
163.80	82	172.05	604	180.00	4761	188.10	389
165.00	1550	172.95	1282	180.95	2301	189.05	1562
165.95	1282	174.00	1849	181.90	166	189.95	396
167.05	9168	175.00	3853	182.25	405	190.90	1273
167.95	5466	175.70	99	182.95	311	191.70	319

Average of 2.683 to 2.694 min.: 3m62990.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
191.95	1980	201.25	636	209.80	343	218.00	1639
192.90	2102	201.60	1058	210.80	108	219.05	184
193.20	225	202.10	86	211.05	1868	220.95	9821
194.15	569	202.95	1670	211.40	100	221.60	335

194.95	497	203.20	211	211.80	210	221.90	808
195.95	5490	204.00	7154	213.20	136	223.00	2849
197.00	277	205.05	10618	214.30	107	224.00	27312
197.90	186475	206.05	47387	214.90	491	225.05	6454
199.00	12123	207.00	6009	215.10	280	225.90	250
199.85	858	208.10	1640	215.90	923	227.00	10928
200.10	251	209.00	579	217.00	11296	227.70	101

Average of 2.683 to 2.694 min.: 3m62990.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
228.00	1636	236.00	720	245.95	3435	253.40	84
228.95	2047	237.05	942	247.00	707	255.00	106984
229.90	375	239.10	554	247.60	97	256.00	14773
231.00	1235	240.00	338	248.80	197	256.80	74
232.10	175	240.90	493	249.10	330	257.00	830
232.70	111	241.85	731	249.80	83	258.00	6154
232.90	168	242.20	554	251.10	147	258.95	1015
233.10	142	242.80	165	251.30	95	259.85	198
233.80	120	243.10	1384	252.10	309	260.80	135
234.05	717	244.00	20246	252.90	305	264.05	228
234.95	587	245.10	2429	253.10	176	264.95	2337

Average of 2.683 to 2.694 min.: 3m62990.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
265.70	96	276.95	3696	292.85	494	304.15	368
265.95	215	278.05	519	293.10	412	308.10	124
267.10	76	282.85	245	293.80	75	310.10	80
267.80	76	283.20	163	294.10	145	313.95	465
269.75	233	283.80	296	294.90	317	315.05	1460
270.20	79	284.80	249	295.95	12962	315.90	193
271.80	236	285.10	830	296.95	1502	316.05	712
273.00	3078	285.90	199	297.90	136	319.90	74
273.95	7087	290.00	108	301.20	80	320.85	480
275.00	45036	291.90	95	302.00	142	322.00	218
275.95	5010	292.10	75	303.05	1435	323.00	4867

Average of 2.683 to 2.694 min.: 3m62990.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
323.90	418	335.20	237	354.10	1556	373.10	222
324.15	920	339.20	106	354.80	99	383.00	589
326.70	309	341.00	521	355.25	254	383.95	312
326.95	862	341.90	125	358.90	79	389.90	309
328.10	586	345.90	1065	365.00	5707	390.70	96
332.05	374	347.20	373	365.85	799	400.90	297
332.70	196	350.80	73	366.90	74	401.95	1164
333.00	147	351.80	81	370.80	105	402.85	1571
333.90	2843	352.05	1279	371.10	330	403.95	696
334.70	314	352.95	964	372.10	2991	421.05	1521
334.90	199	353.70	112	372.90	132	421.90	995

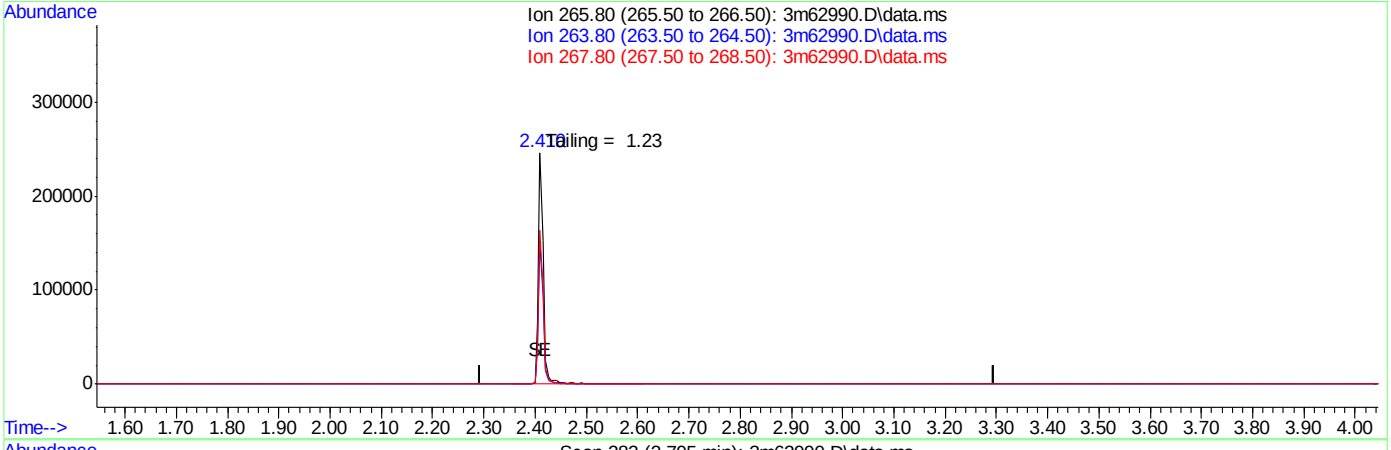
Average of 2.683 to 2.694 min.: 3m62990.D\data.ms
dftpp
Modified:subtracted

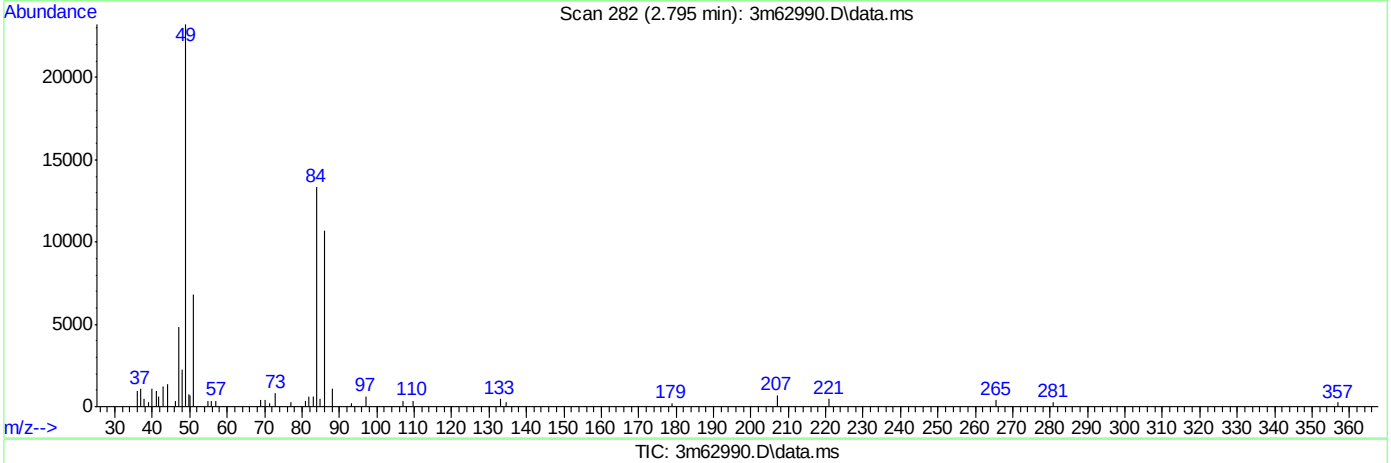
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
423.00	8320						
423.80	176						
423.95	1898						
425.00	329						
441.00	22968						
442.00	147835						
443.05	29688						
444.05	3218						
445.10	74						

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E3M2979\
Data File : 3m62990.D
Acq On : 15 Jul 2016 9:36 pm
Operator : juliusj
Sample : dftpp
Misc : op95160a,e3m2979
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 15 21:40:19 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: 3m62990.D\data.ms

(1) Pentachlorophenol (t)

2.795min (-2.795) 0.00ppb

response 0

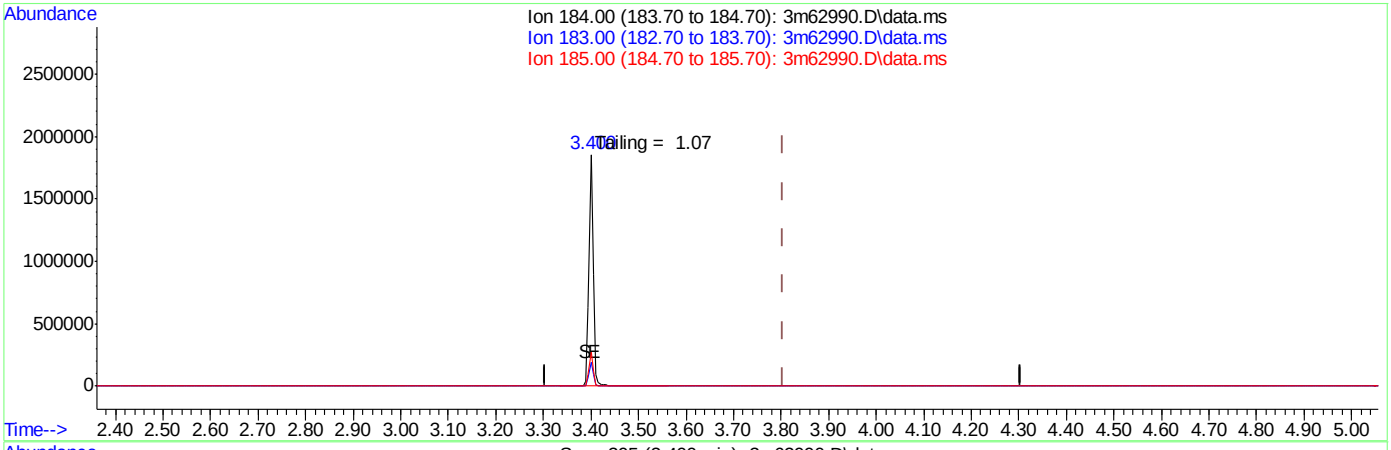
Ion	Exp%	Act%
265.80	100	0.00
263.80	62.80	0.00#
267.80	64.10	0.00#
0.00	0.00	0.00

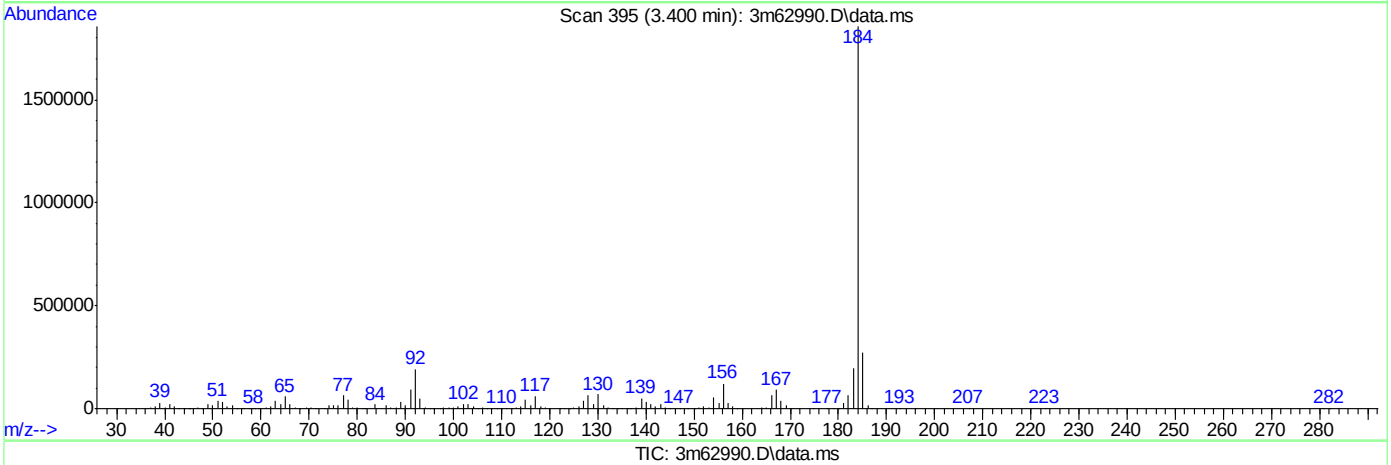
SGS ACCUTEST JC24133

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E3M2979\
Data File : 3m62990.D
Acq On : 15 Jul 2016 9:36 pm
Operator : juliusj
Sample : dftpp
Misc : op95160a,e3m2979
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 15 21:40:19 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: 3m62990.D\data.ms

(2) Benzidine (t)

3.400min (-0.406) 63.98ppb m

response 1164326

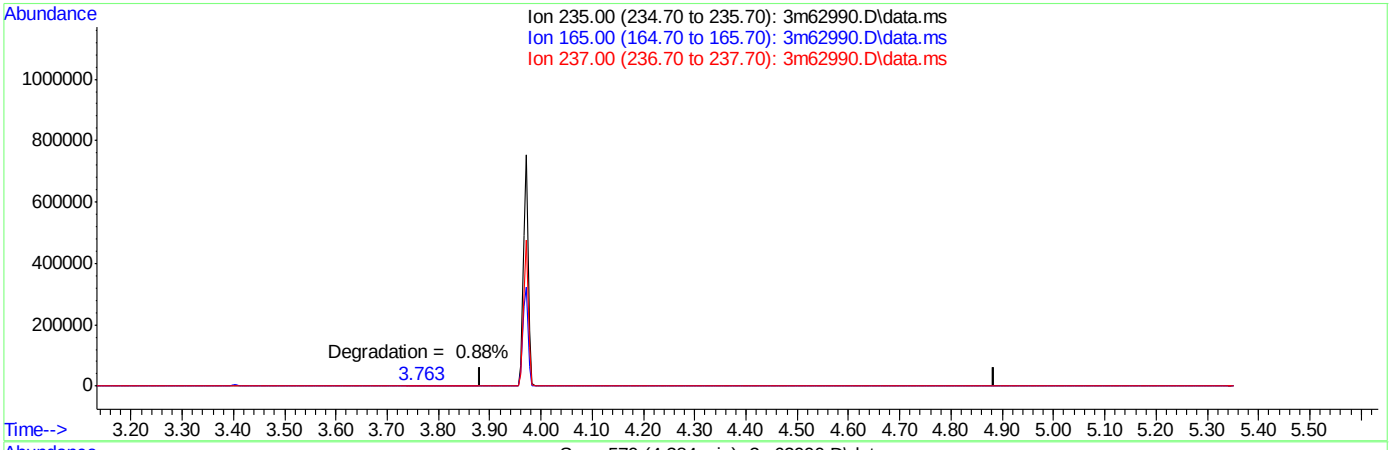
Ion	Exp%	Act%
184.00	100	100
183.00	11.50	10.57
185.00	14.40	14.61
0.00	0.00	0.00

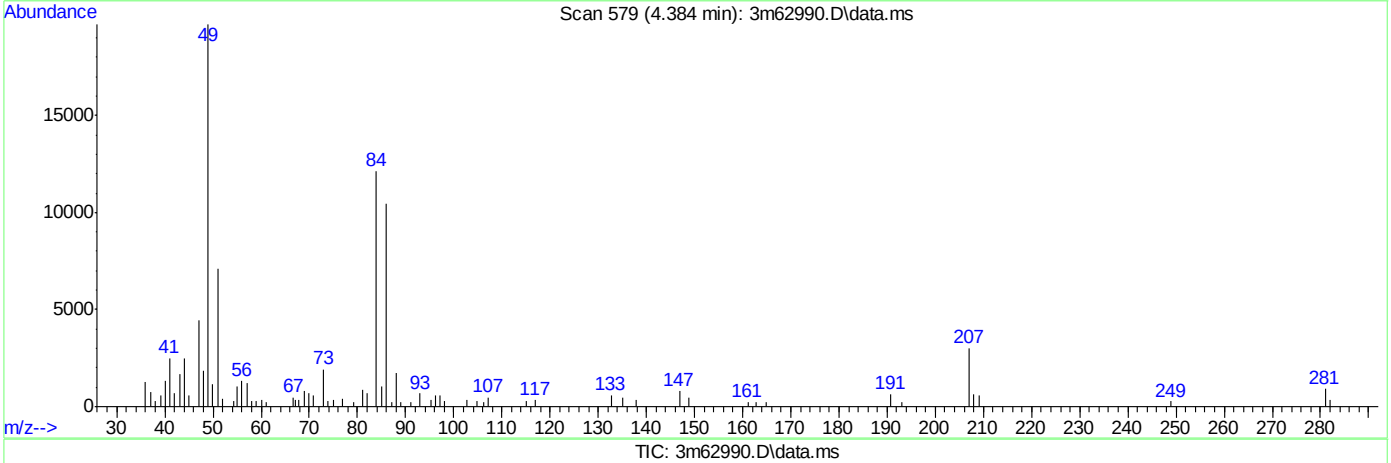
SGS ACCUTEST JC24133

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E3M2979\
Data File : 3m62990.D
Acq On : 15 Jul 2016 9:36 pm
Operator : juliusj
Sample : dftpp
Misc : op95160a,e3m2979
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 15 21:40:19 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: 3m62990.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

7.5.6.3

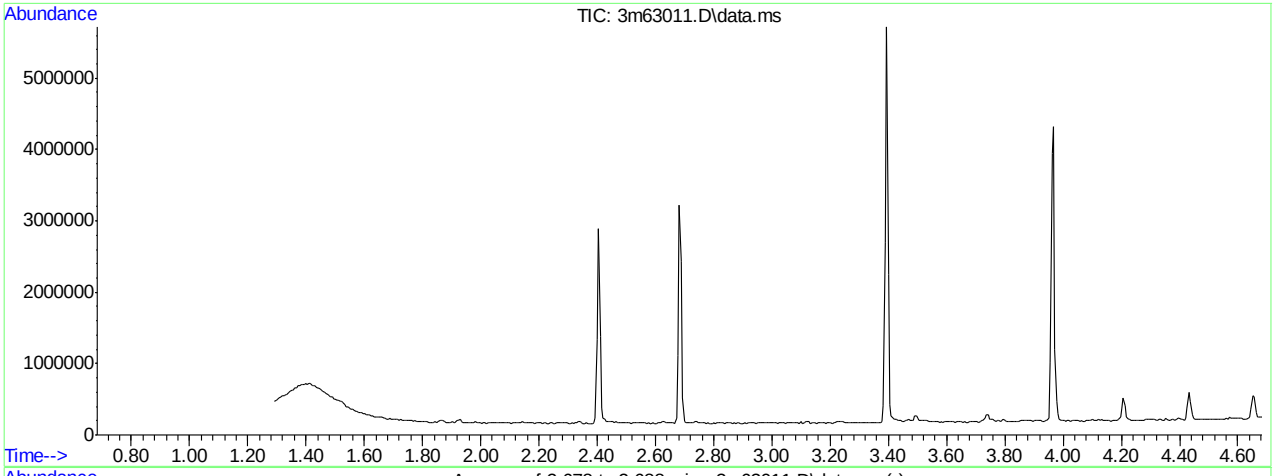
7

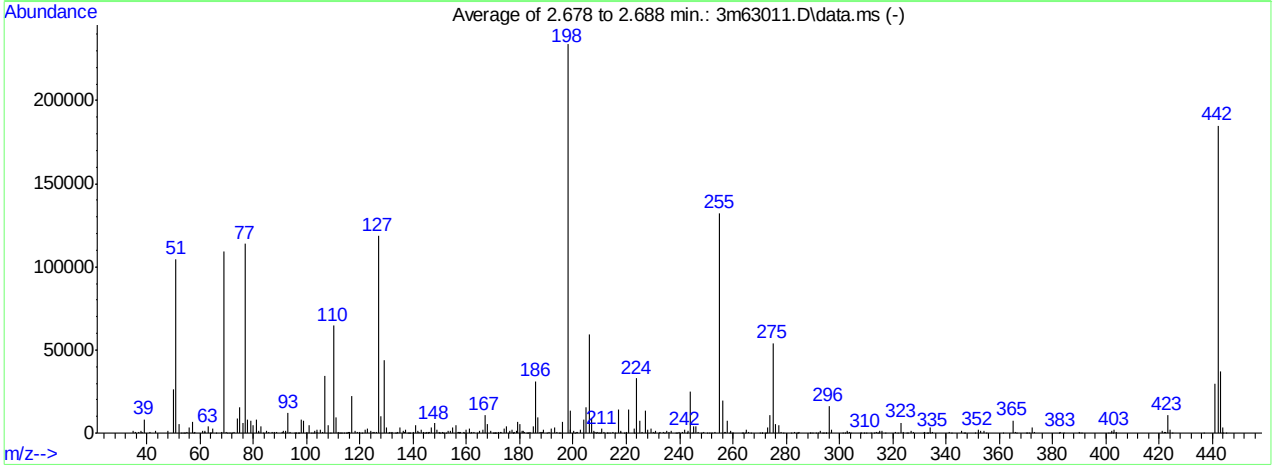
SGS ACCUTEST JC24133

DFTPP

Data File : C:\msdchem\1\DATA\E3M2980\3m63011.D Vial: 1
Acq On : 18 Jul 2016 8:55 am Operator: ashleyd
Sample : dftpp Inst : MS3M
Misc : op95160a,e3m2980 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 260, 261, 262; Background Corrected with Scan 256

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	44.8	104773	PASS
68	69	0.00	2	0.6	706	PASS
69	198	0.00	100	46.8	109317	PASS
70	69	0.00	2	0.7	740	PASS
127	198	40	60	50.7	118587	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	233701	PASS
199	198	5	9	5.6	13173	PASS
275	198	10	30	23.2	54226	PASS
365	198	1	100	3.3	7691	PASS
441	443	0.10	100	78.7	29403	PASS
442	198	40	100	79.1	184949	PASS
443	442	17	23	20.2	37375	PASS

3m63011.D DFTPP3M.M Mon Jul 18 15:40:27 2016 RPT1

Average of 2.678 to 2.688 min.: 3m63011.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
35.10	1513	52.00	5742	61.95	1058	71.80	88
35.90	505	53.00	301	63.05	4029	72.95	834
37.00	798	53.80	163	63.80	228	74.00	8932
38.00	1113	54.05	276	64.10	352	74.95	15478
38.20	487	55.05	750	64.95	2722	76.05	5800
39.00	8307	55.95	3222	65.90	76	76.95	113821
41.00	764	57.05	6580	68.00	706	78.00	7923
43.15	1257	57.70	85	68.95	109317	79.00	7298
47.90	1314	58.10	585	70.00	740	80.00	4923
50.00	26117	60.90	1650	70.20	221	81.05	7873
51.00	104773	61.80	403	71.05	345	81.90	715

Average of 2.678 to 2.688 min.: 3m63011.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
82.10	1099	92.00	1473	100.95	4749	110.00	64477
83.00	3933	93.05	11889	101.95	284	110.95	9508
83.90	21	94.00	855	102.75	59	111.95	944
84.80	488	95.30	106	103.05	1203	112.20	333
85.00	1199	95.80	234	103.80	535	112.80	200
85.90	995	96.10	252	104.00	1975	113.10	173
87.00	934	96.60	195	104.95	2322	113.85	296
87.95	398	97.05	269	105.90	404	114.80	94
88.90	374	98.00	7852	107.00	34088	115.05	109
91.00	645	99.00	7423	108.00	4750	115.80	395
91.15	1434	99.90	950	108.80	191	116.20	500

Average of 2.678 to 2.688 min.: 3m63011.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
116.95	22374	127.00	118587	134.95	3301	142.95	1762
118.00	1467	128.00	10127	136.10	1676	143.95	449
118.95	449	129.00	44163	136.70	751	144.20	127
119.95	600	129.95	3721	137.15	1940	144.70	149
120.80	209	130.90	131	137.90	245	145.10	562
121.95	2073	131.10	689	138.20	196	145.40	149
123.00	2731	131.60	217	138.90	247	145.85	523
124.05	1439	131.90	571	139.90	413	146.10	470
124.90	894	133.20	261	141.05	4826	146.95	3077
125.20	588	133.80	152	141.85	1339	148.00	5862
126.00	416	134.10	930	142.20	452	148.95	1779

Average of 2.678 to 2.688 min.: 3m63011.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
149.60	85	156.85	547	163.00	379	171.20	213
149.85	468	157.00	380	163.95	266	171.85	928
150.20	80	157.20	450	165.00	1638	172.80	537
150.80	182	157.50	230	166.05	1714	173.05	1037
151.05	579	157.95	1026	167.00	11079	173.95	2444
151.60	111	158.85	406	167.95	5362	175.00	4266
152.10	88	159.10	315	169.00	1160	176.00	262
152.95	1672	159.95	1716	169.95	234	176.20	1287
154.05	1203	161.00	2471	170.40	111	176.95	1751
154.95	3560	161.70	75	170.70	320	177.50	173
156.05	4758	162.00	518	170.90	295	177.70	209

Average of 2.678 to 2.688 min.: 3m63011.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
178.00	390	185.05	3780	193.85	788	202.90	2212
178.80	1319	186.00	31178	194.70	159	203.95	7854
179.00	7012	186.95	9725	195.00	269	205.05	15194
179.95	5460	187.80	686	195.95	6644	206.00	59285

180.90	1260	188.05	373	197.95	233701	207.00	8749
181.10	1325	188.30	493	198.80	2130	207.90	1505
181.90	550	189.00	2076	199.00	13173	208.10	797
182.40	207	190.00	358	200.05	1463	208.60	127
182.80	147	190.90	958	200.60	160	209.00	927
183.00	99	191.95	2543	201.35	754	209.60	87
184.00	499	193.00	3600	201.60	994	210.00	265

Average of 2.678 to 2.688 min.: 3m63011.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
210.30	144	219.30	87	230.00	667	238.90	229
210.95	2672	220.00	433	230.70	168	239.95	502
211.70	771	221.05	13967	231.05	1309	241.00	686
212.70	86	222.90	340	232.00	120	242.00	1750
213.00	169	223.05	2918	232.75	457	242.80	194
213.60	77	224.00	32722	233.85	815	242.95	1347
214.80	514	225.05	7497	234.20	238	244.00	24854
215.70	87	226.10	1001	235.05	1042	244.80	246
216.95	14412	227.00	13169	236.05	813	245.05	3903
217.90	1305	228.00	2029	236.85	1138	246.00	3738
218.10	616	229.05	2584	238.70	166	247.00	980

Average of 2.678 to 2.688 min.: 3m63011.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
248.00	105	258.80	125	270.80	125	278.90	152
249.00	806	258.95	1258	271.10	158	281.80	193
250.10	110	259.70	153	272.20	279	283.10	554
251.10	147	260.05	203	272.70	228	283.85	337
251.95	241	263.40	87	272.95	3620	284.20	167
253.15	660	263.95	330	274.00	10529	284.95	833
255.00	132472	264.60	89	275.00	54226	288.90	85
256.00	19600	265.05	2154	275.90	678	289.20	157
256.90	848	265.75	574	276.05	5539	289.90	248
257.10	461	266.85	249	277.05	4856	291.00	188
258.00	7503	270.00	76	278.00	401	292.00	171

Average of 2.678 to 2.688 min.: 3m63011.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
292.95	1159	303.90	420	315.00	1351	331.60	218
293.80	136	304.30	241	316.05	1048	332.10	595
294.10	131	307.90	268	317.10	127	332.70	312
294.70	130	308.10	215	321.00	415	333.00	275
295.00	119	309.00	74	321.90	77	333.90	332
296.00	16202	309.95	283	323.10	6390	334.10	3417
297.00	2243	311.80	103	324.00	980	335.05	831
301.00	145	313.10	268	325.00	225	341.05	506
302.00	88	313.85	579	325.70	75	342.10	215
302.80	232	314.10	329	326.95	1069	345.90	1219
303.05	1499	314.80	179	327.90	540	346.70	234

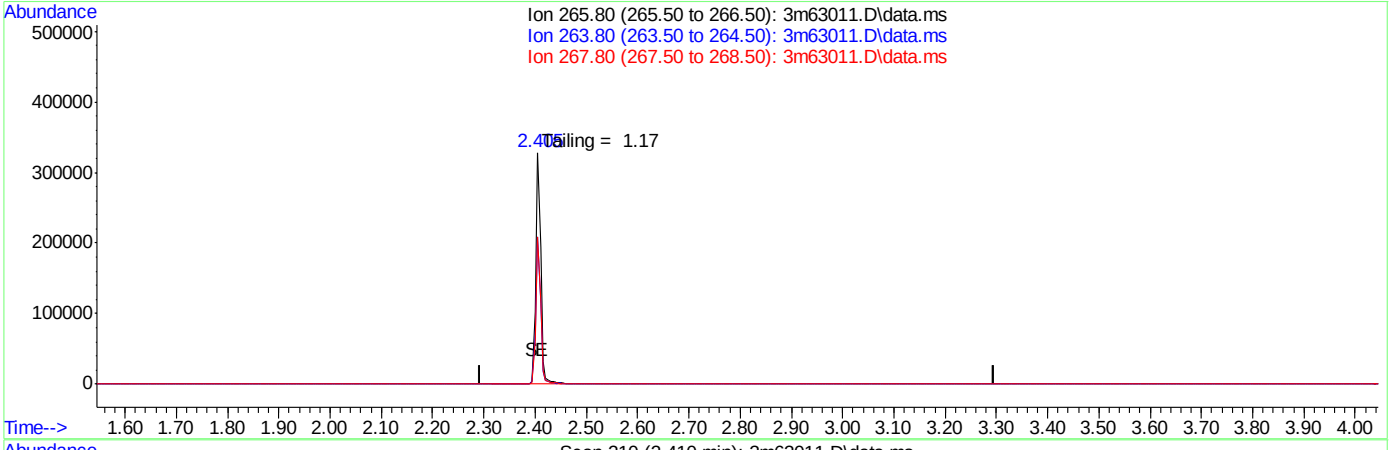
Average of 2.678 to 2.688 min.: 3m63011.D\data.ms
dftpp
Modified:subtracted

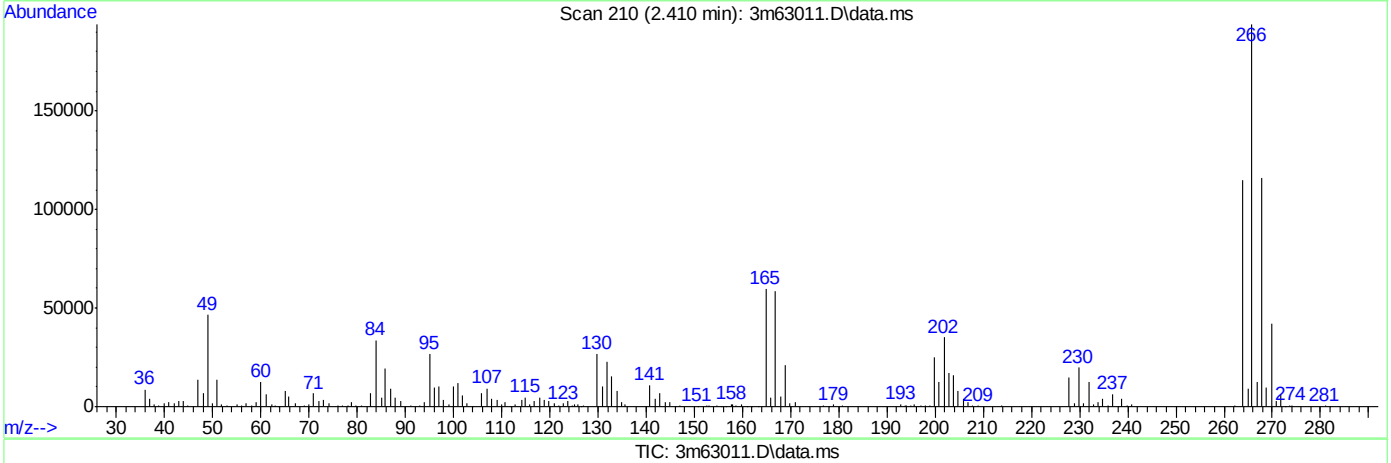
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
347.15	264	370.30	210	401.60	79	436.70	79
350.90	320	371.00	359	402.00	1191	441.00	29403
352.05	1819	372.10	3370	402.60	141	442.00	184949
353.00	1156	372.95	695	403.05	1806	443.05	37375
354.00	1536	382.50	119	404.05	612	443.80	122
355.00	193	382.95	817	420.95	1664	444.00	3128
361.20	131	383.90	148	422.00	693	444.90	177
365.00	7691	389.80	132	422.20	942		
365.95	795	390.00	363	423.00	10869		
366.60	83	391.00	183	424.00	2278		
370.10	82	400.90	135	425.00	137		

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E3M2980\
Data File : 3m63011.D
Acq On : 18 Jul 2016 8:55 am
Operator : ashleyd
Sample : dftpp
Misc : op95160a,e3m2980
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 18 08:59:56 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: 3m63011.D\data.ms

(1) Pentachlorophenol (t)

2.795min (-2.795) 0.00ppb

response 0

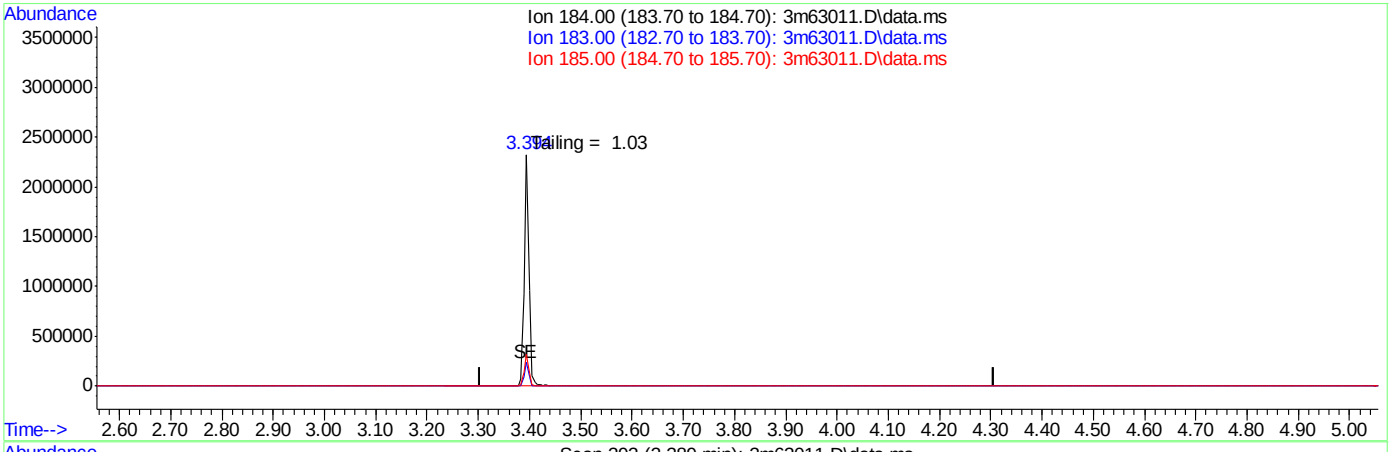
Ion	Exp%	Act%
265.80	100	0.00
263.80	62.80	0.00#
267.80	64.10	0.00#
0.00	0.00	0.00

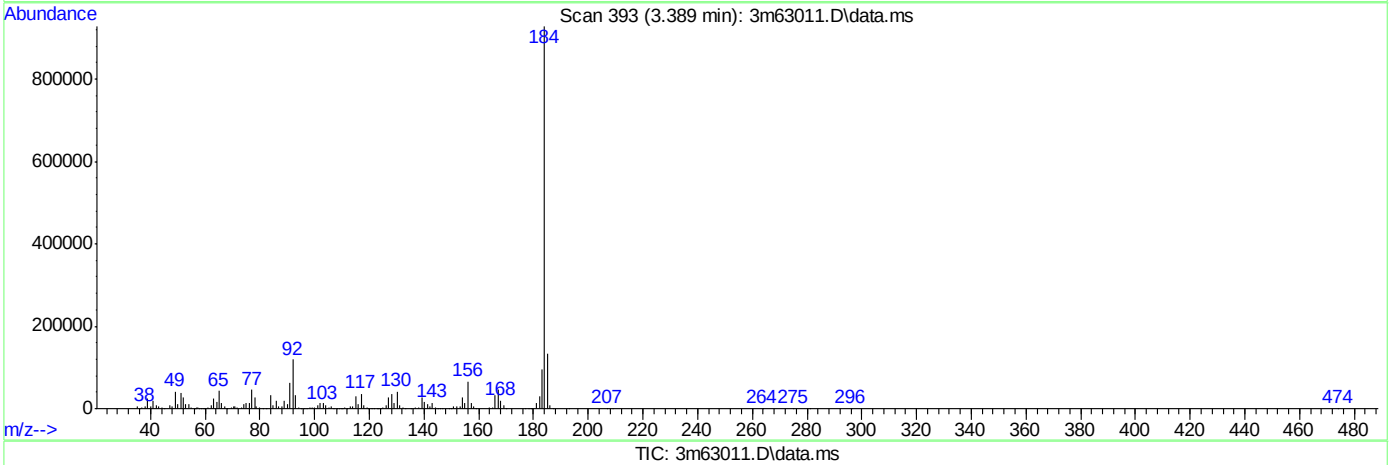
SGS ACCUTEST JC24133

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\DATA\E3M2980\
Data File : 3m63011.D
Acq On    : 18 Jul 2016   8:55 am
Operator  : ashleyd
Sample    : dftpp
Misc      : op95160a,e3m2980
ALS Vial  : 1   Sample Multiplier: 1

Quant Time: Jul 18 08:59:56 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
```





(2) Benzidine (t)

3.806min 0.00ppb d

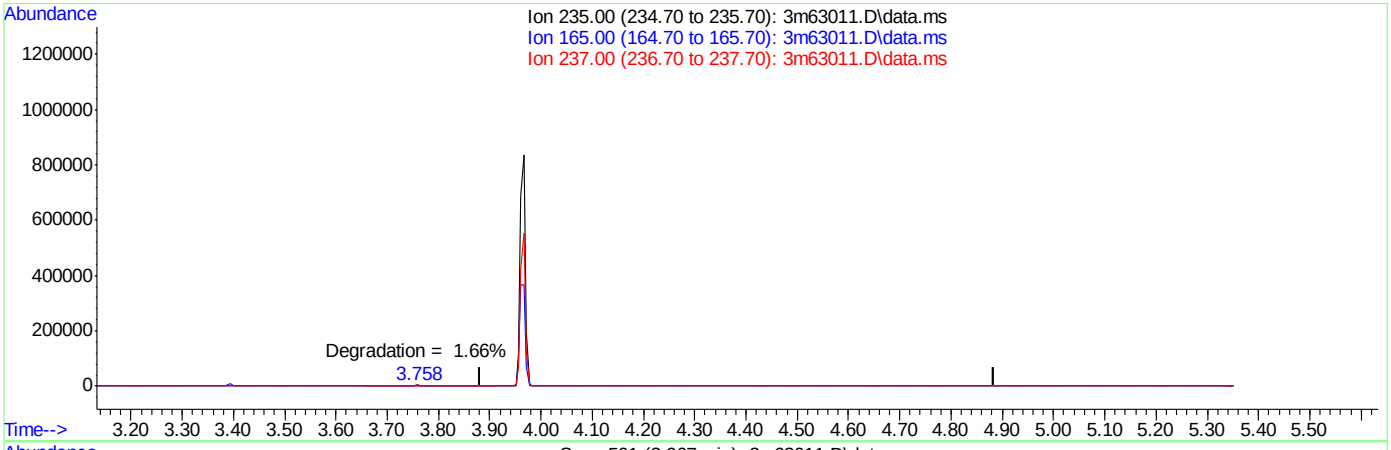
response 0

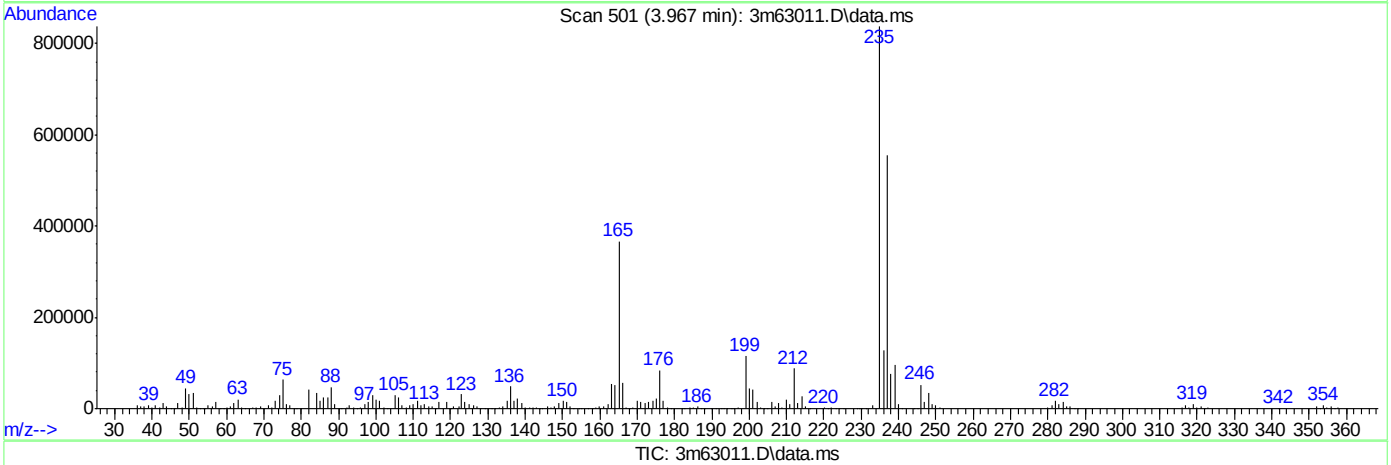
Ion	Exp%	Act%
184.00	100	0.00
183.00	11.50	0.00
185.00	14.40	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E3M2980\
Data File : 3m63011.D
Acq On : 18 Jul 2016 8:55 am
Operator : ashleyd
Sample : dftpp
Misc : op95160a,e3m2980
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 18 08:59:56 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: 3m63011.D\data.ms

(3) PP-DDT (t)

4.384min (-4.384) 0.00ppb

response 0

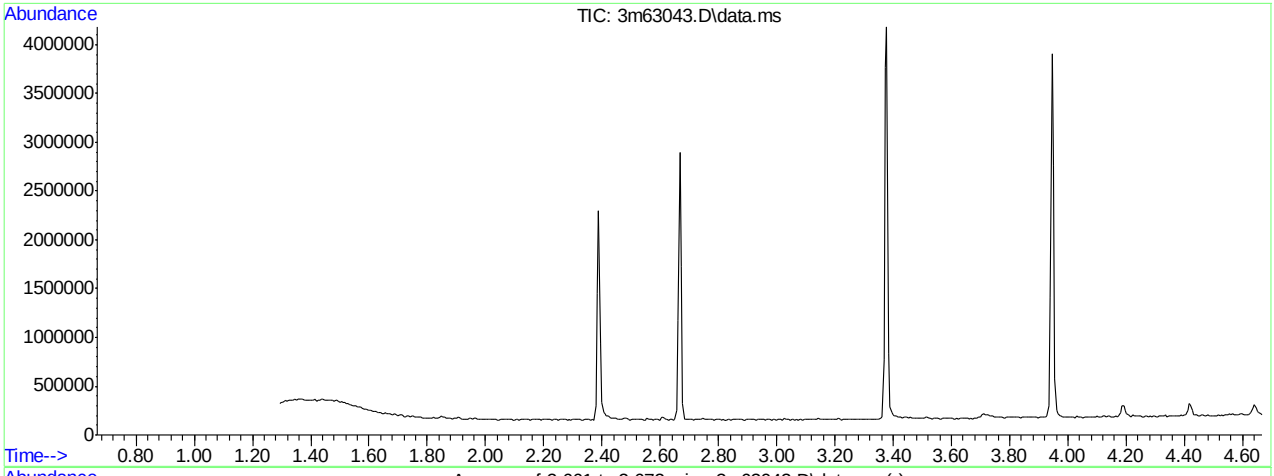
Ion	Exp%	Act%
235.00	100	0.00
165.00	0.00	0.00
237.00	0.00	0.00
0.00	0.00	0.00

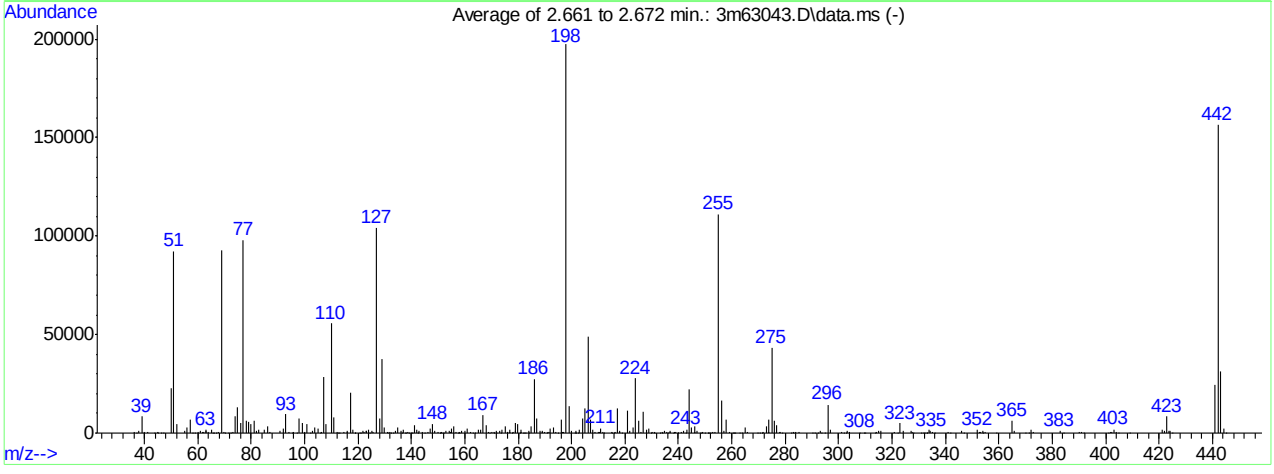
SGS ACCUTEST JC24133

DFTPP

Data File : C:\msdchem\1\DATA\E3M2982\3m63043.D Vial: 1
Acq On : 19 Jul 2016 8:53 am Operator: ashleyd
Sample : dftpp Inst : MS3M
Misc : op95160a,e3m2982 Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\MSDCHEM\1\METHODS\DFTPP3M.M (RTE Integrator)
Title : DFTPP, RXI-5MS 30m x .25mm x .25um





AutoFind: Scans 257, 258, 259; Background Corrected with Scan 253

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	46.8	92273	PASS
68	69	0.00	2	0.4	337	PASS
69	198	0.00	100	47.2	93040	PASS
70	69	0.00	2	0.5	504	PASS
127	198	40	60	52.7	103957	PASS
197	198	0.00	1	0.3	638	PASS
198	198	100	100	100.0	197307	PASS
199	198	5	9	6.8	13482	PASS
275	198	10	30	21.9	43115	PASS
365	198	1	100	3.1	6129	PASS
441	443	0.10	100	77.7	24400	PASS
442	198	40	100	79.2	156357	PASS
443	442	17	23	20.1	31420	PASS

3m63043.D DFTPP3M.M Tue Jul 19 15:34:11 2016 RPT1

Average of 2.661 to 2.672 min.: 3m63043.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.00	510	50.05	22646	62.10	736	70.20	200
36.95	92	51.00	92273	62.90	1680	71.25	276
38.05	1349	52.00	4760	63.10	1418	72.10	112
39.00	8523	55.00	883	63.85	375	73.00	857
40.00	345	55.95	2625	64.95	1626	74.10	8503
41.20	775	57.05	6823	65.70	85	75.00	13379
43.95	40	58.00	162	66.10	105	76.10	5356
44.90	374	58.90	101	66.85	285	77.00	97981
45.20	300	60.10	479	67.80	337	78.00	6149
46.10	91	61.05	1069	69.00	93040	79.00	5452
46.95	13	61.80	332	69.95	504	80.00	4773

Average of 2.661 to 2.672 min.: 3m63043.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
81.00	6114	95.90	315	106.10	524	117.05	20387
81.95	1306	97.20	204	107.05	28349	118.10	1985
83.00	1716	97.95	7231	107.90	4573	118.75	236
84.95	1644	99.00	4996	110.00	55597	119.10	294
85.95	3690	100.00	684	111.00	7833	120.70	94
86.95	376	100.95	4320	112.05	824	121.20	171
90.95	1270	101.95	277	112.80	140	121.85	957
92.10	2036	102.95	1288	113.20	80	122.10	654
93.00	9589	103.95	2847	114.80	379	123.00	1183
94.05	779	104.95	2180	115.80	582	123.20	1140
95.50	196	105.80	219	116.05	989	124.00	1562

Average of 2.661 to 2.672 min.: 3m63043.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
124.30	288	133.20	120	140.10	131	149.85	565
125.05	1024	133.95	1022	141.00	3996	150.70	177
125.70	496	134.95	2733	141.95	1629	150.90	139
127.00	103957	135.95	1249	142.40	176	151.25	630
128.00	7683	136.70	222	142.95	1165	151.50	151
129.00	37728	137.10	1521	144.05	518	151.95	301
129.95	3101	137.70	78	145.00	167	152.95	1445
130.90	80	137.95	265	146.00	826	154.00	1194
131.10	314	138.45	344	147.05	2093	154.70	411
131.85	579	139.05	173	147.90	4603	155.10	2320
132.20	103	139.80	279	148.90	911	156.05	3670

Average of 2.661 to 2.672 min.: 3m63043.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
156.85	811	166.00	1647	173.60	214	179.95	4446
157.40	290	166.95	9387	174.05	1562	180.70	303
157.80	152	168.00	4134	175.05	3291	181.00	1519
158.05	755	168.95	767	175.85	565	181.20	307
158.95	965	169.30	132	176.20	672	181.90	84
160.00	1394	169.95	339	176.70	325	182.40	261
161.00	2051	170.75	421	177.00	1532	182.70	87
162.00	627	171.00	86	177.80	249	183.80	116
162.95	275	171.70	75	178.10	401	184.05	1000
163.70	161	171.95	963	178.80	1120	184.95	3443
164.90	1458	172.85	1049	179.00	5255	186.00	27494

Average of 2.661 to 2.672 min.: 3m63043.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
187.00	7613	194.95	229	203.00	1511	212.10	78
188.00	1081	196.05	7029	204.05	7660	214.90	82
188.80	455	196.70	564	205.00	12341	215.05	566
189.10	1105	197.00	638	206.05	48765	215.80	214

189.95	350	197.95	197307	207.00	6731	216.20	427
190.70	179	198.95	13482	208.00	1918	217.00	12717
190.90	521	199.85	982	208.90	779	217.80	1367
191.50	372	201.20	202	209.90	314	218.00	416
192.00	2150	201.40	995	210.30	555	218.70	155
193.05	2813	201.80	230	211.00	2309	221.00	11319
194.00	472	202.30	123	211.60	444	221.70	963

Average of 2.661 to 2.672 min.: 3m63043.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
223.05	2897	232.90	76	239.70	268	248.10	204
224.00	27761	233.85	549	239.90	103	248.70	97
225.00	6067	234.10	154	241.05	830	249.05	670
225.90	637	234.95	952	241.90	1353	250.00	78
227.00	10729	235.80	460	242.80	85	251.00	183
228.05	1541	236.00	253	243.00	1807	251.20	89
228.95	2391	236.70	384	244.05	22408	251.70	81
229.90	125	237.00	1070	245.00	2605	252.10	205
230.10	305	238.00	116	245.90	3156	252.90	712
230.80	196	238.75	378	246.20	604	253.50	315
231.05	819	239.05	336	246.90	884	255.00	111275

Average of 2.661 to 2.672 min.: 3m63043.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
256.00	16302	269.70	161	278.10	387	293.75	185
256.95	1316	270.60	134	278.90	94	294.90	293
258.00	6810	271.15	197	282.05	289	296.00	14302
258.95	860	271.90	455	282.90	412	296.95	1837
260.20	78	273.00	3556	283.20	84	300.95	367
260.90	106	273.80	609	284.05	442	301.95	185
261.10	102	274.00	6975	285.05	656	302.60	77
263.00	95	275.00	43115	290.00	110	303.05	1424
263.80	238	276.00	6534	291.10	190	304.00	527
264.95	2617	276.95	4005	292.20	166	307.95	265
265.90	489	277.90	393	293.00	1060	309.70	77

Average of 2.661 to 2.672 min.: 3m63043.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
310.00	180	328.10	216	341.90	79	365.85	953
313.80	149	330.80	105	345.95	1139	369.80	199
314.10	629	331.80	110	346.90	84	371.10	188
314.95	1332	332.15	268	352.00	1622	372.10	1969
315.85	886	332.80	170	352.70	542	372.95	785
320.90	564	333.00	247	353.00	409	382.95	955
322.10	98	333.90	1757	353.90	148	384.10	227
323.00	4945	334.10	1063	354.05	1317	390.00	331
324.05	1164	334.95	738	354.95	400	391.00	392
326.95	999	335.80	105	359.10	136	391.70	150
327.75	329	341.00	375	364.95	6129	401.00	117

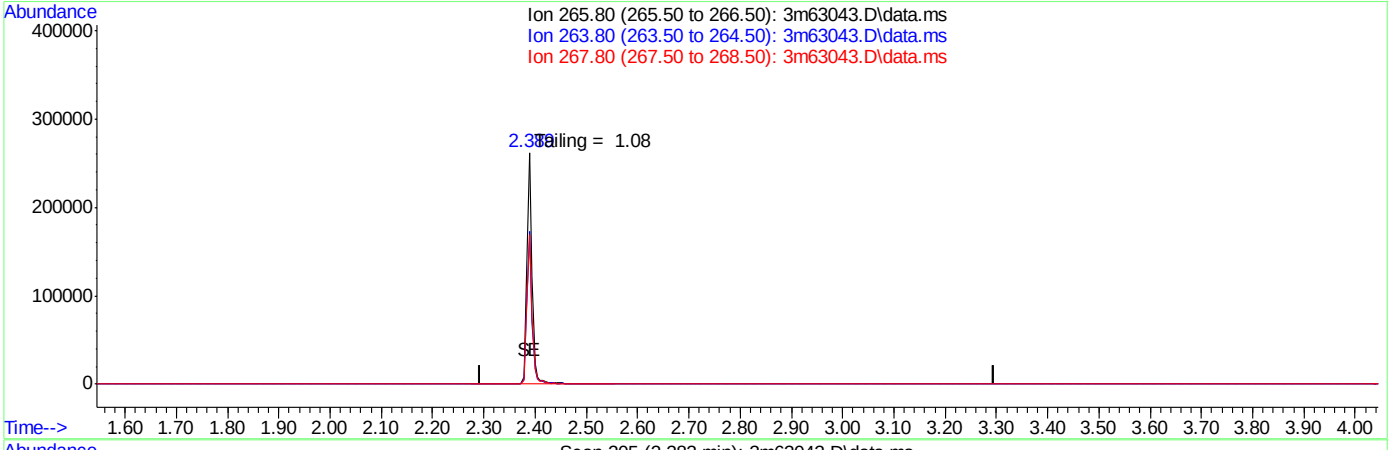
Average of 2.661 to 2.672 min.: 3m63043.D\data.ms
dftpp
Modified:subtracted

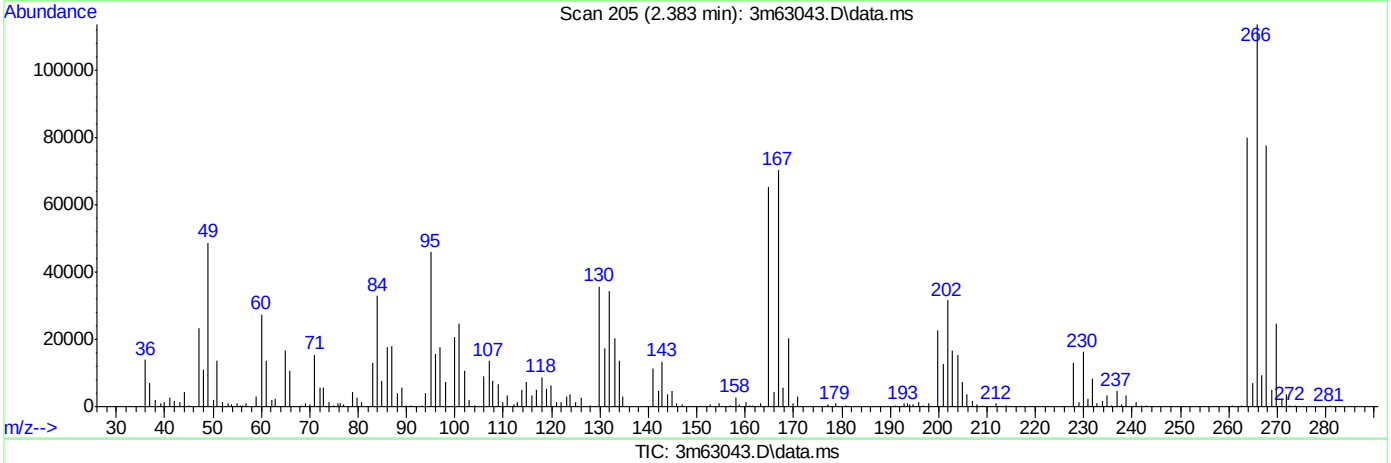
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
401.90	549	425.00	82				
402.10	457	441.05	24400				
403.00	1753	442.00	156357				
403.90	535	443.00	31420				
405.00	108	444.10	2507				
408.90	75	444.90	144				
421.00	1457						
421.95	955						
423.00	8466						
423.80	985						
424.05	1381						

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E3M2982\
Data File : 3m63043.D
Acq On : 19 Jul 2016 8:53 am
Operator : ashleyd
Sample : dftpp
Misc : op95160a,e3m2982
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 19 08:57:29 2016
Quant Method : C:\MSDCHEM\1\METHODS\DFTPP3M.M
Quant Title : DFTPP, RXI-5MS 30m x .25mm x .25um
QLast Update : Wed Dec 09 10:32:40 2015
Response via : Initial Calibration





TIC: 3m63043.D\data.ms

(1) Pentachlorophenol (t)

2.795min (-2.795) 0.00ppb

response 0

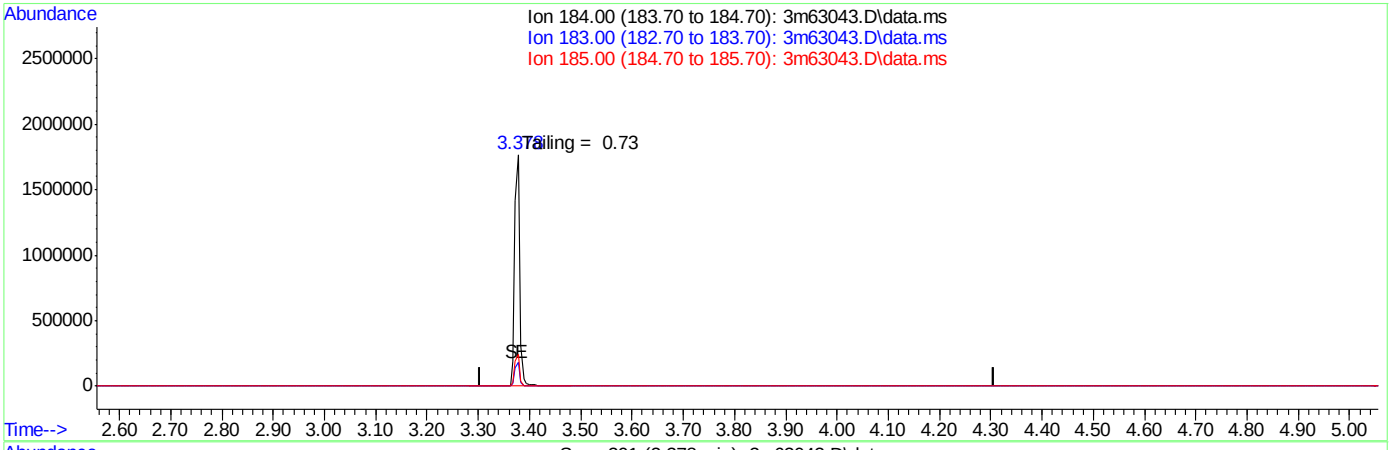
Ion	Exp%	Act%
265.80	100	0.00
263.80	62.80	0.00#
267.80	64.10	0.00#
0.00	0.00	0.00

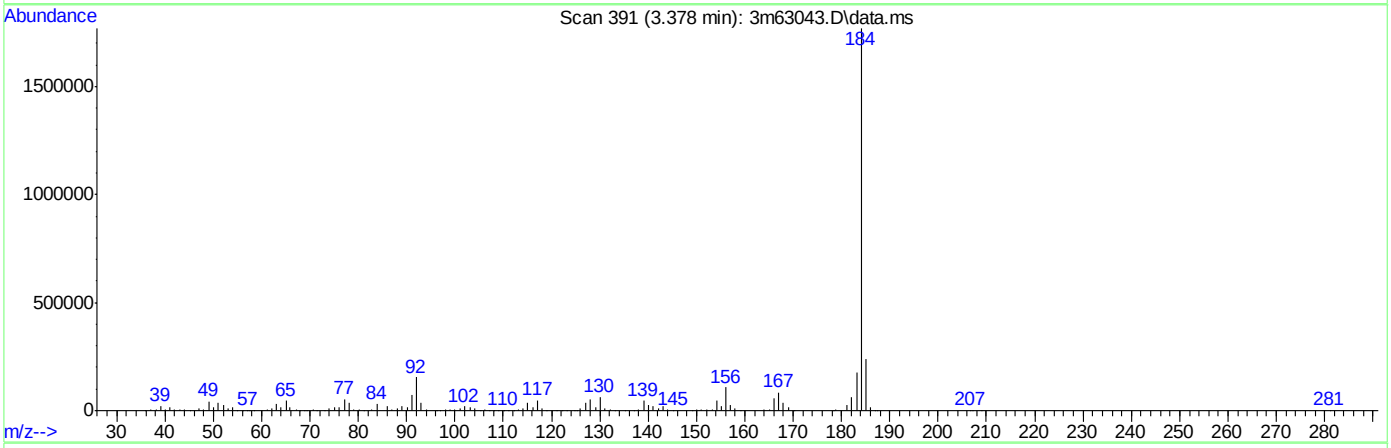
SGS ACCUTEST JC24133

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E3M2982\
Data File : 3m63043.D
Acq On : 19 Jul 2016 8:53 am
Operator : ashleyd
Sample : dftpp
Misc : op95160a,e3m2982
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 19 08:57:29 2016
Quant Method : C:\MSDCHEM\1\METHODS\DFTPP3M.M
Quant Title : DFTPP, RXI-5MS 30m x .25mm x .25um
QLast Update : Wed Dec 09 10:32:40 2015
Response via : Initial Calibration





TIC: 3m63043.D\data.ms

(2) Benzidine (t)

3.806min 0.00ppb d

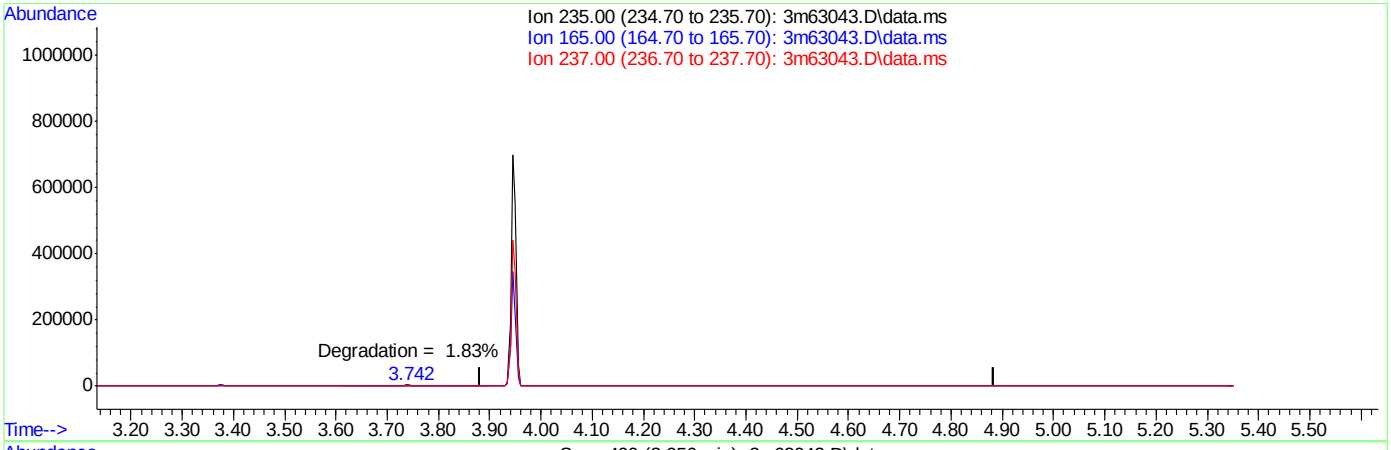
response 0

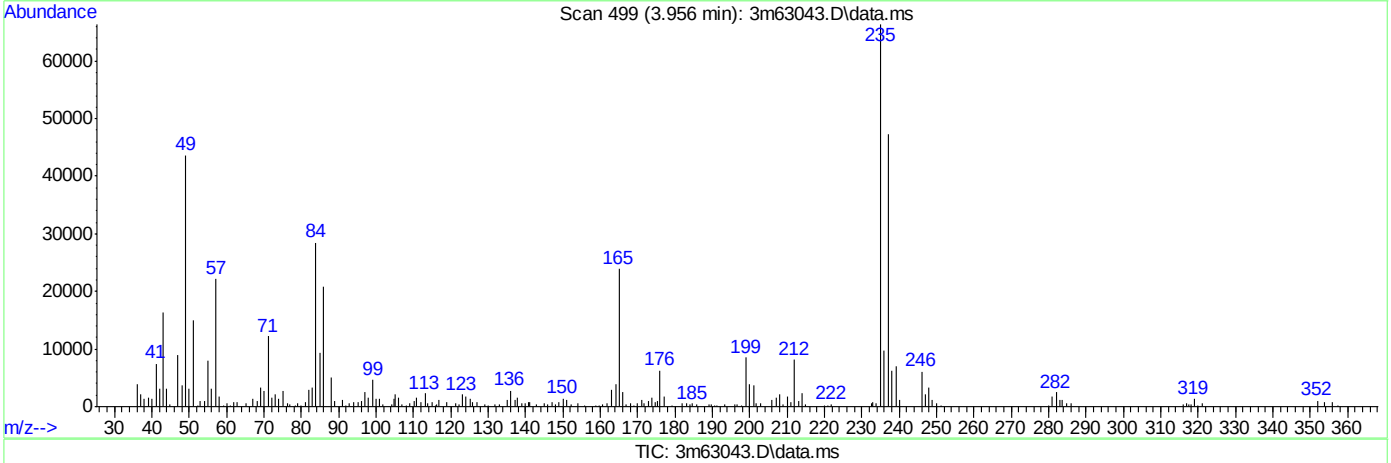
Ion	Exp%	Act%
184.00	100	0.00
183.00	11.50	0.00
185.00	14.40	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E3M2982\
Data File : 3m63043.D
Acq On : 19 Jul 2016 8:53 am
Operator : ashleyd
Sample : dftpp
Misc : op95160a,e3m2982
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 19 08:57:29 2016
Quant Method : C:\MSDCHEM\1\METHODS\DFTPP3M.M
Quant Title : DFTPP, RXI-5MS 30m x .25mm x .25um
QLast Update : Wed Dec 09 10:32:40 2015
Response via : Initial Calibration





TIC: 3m63043.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

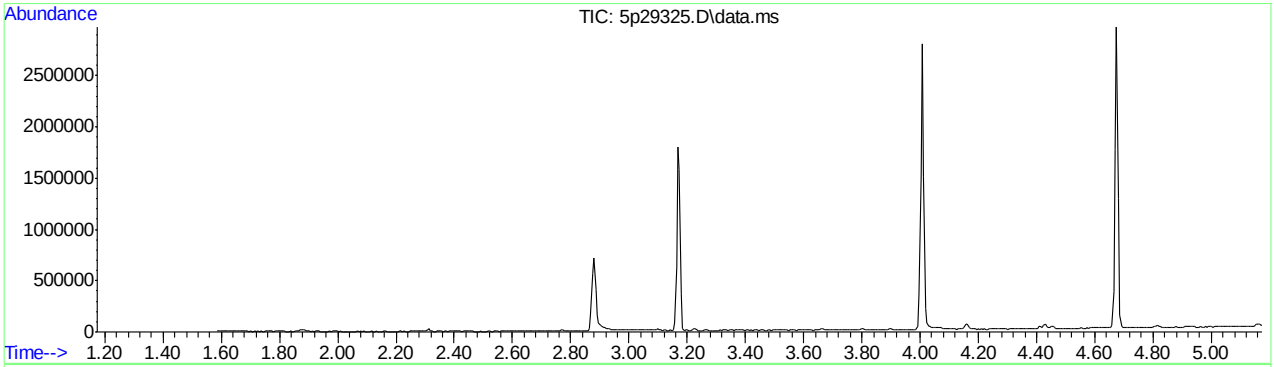
SGS ACCUTEST JC24133

DFTPPR

Data Path : C:\msdchem\1\DATA\E5P1496\
Data File : 5p29325.D
Acq On : 1 Jul 2016 11:45 am
Operator : kristis
Sample : dftpp
Misc : op94797,e5p1496,1000,,,1,1
ALS Vial : 1 Sample Multiplier: 1

Integration File: rteint.p

Method : C:\MSDCHEM\1\METHODS\DFTPP5P.M
Title : Semi Volatile Extractables by GC/MS zb-5msi 30mx0.Tue Aug 25 09:34:01 2015
Last Update : Tue Aug 25 09:34:01 2015



AutoFind: Scans 297, 298, 299; Background Corrected with Scan 292
AUTOFIND via AUTOINTEGRATE

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	36.1	50347	PASS
68	69	0.00	2	1.1	647	PASS
69	198	0.00	100	40.4	56271	PASS
70	69	0.00	2	0.4	208	PASS
127	198	40	60	54.7	76180	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	139298	PASS
199	198	5	9	6.2	8642	PASS
275	198	10	30	25.1	34972	PASS
365	198	1	100	3.1	4350	PASS
441	443	0.10	100	84.3	20591	PASS
442	198	40	100	93.5	130277	PASS
443	442	17	23	18.7	24412	PASS

Average of 3.169 to 3.179 min.: 5p29325.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
37.05	274	53.05	306	67.10	83	79.10	3825
38.15	603	54.15	145	68.10	647	80.10	3097
39.10	3867	55.10	356	69.10	56271	81.10	4315
40.10	92	56.10	1470	70.05	208	82.10	945
41.10	56	57.10	3561	71.10	101	83.00	1011
42.05	24	58.10	268	73.10	83	84.00	42
45.05	11	61.05	595	74.10	5619	85.10	564
49.10	451	62.10	692	75.10	8714	86.00	1152
50.10	12590	63.10	2010	76.10	2899	87.00	596
51.10	50347	64.10	230	77.10	61997	88.00	285
52.10	2400	65.10	1163	78.10	4335	89.10	98

Average of 3.169 to 3.179 min.: 5p29325.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
91.10	1164	102.05	226	113.05	226	123.05	2040
92.00	926	103.05	773	115.05	53	124.05	890
93.00	6691	104.05	1757	116.10	1009	125.05	986
94.10	486	105.05	1494	117.05	12694	127.10	76180
95.05	100	106.00	213	118.05	865	128.05	5842
96.10	132	107.10	19940	119.00	189	129.05	28398
97.20	238	108.10	3255	119.20	66	130.00	2415
98.00	4682	109.10	99	120.00	180	131.05	576
99.10	4002	110.05	37562	120.15	179	132.10	373
100.05	391	111.05	5399	121.05	214	133.10	155
101.10	2836	112.10	844	122.00	1279	134.00	788

Average of 3.169 to 3.179 min.: 5p29325.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
135.05	2166	145.05	274	155.05	1742	166.00	957
136.00	697	146.00	678	156.10	3096	167.00	6445
137.05	1201	147.10	2004	157.10	772	168.05	3004
137.95	313	148.05	3609	158.00	570	169.00	543
139.10	147	149.05	975	159.00	453	170.00	214
140.05	296	150.00	142	160.00	1179	171.00	290
141.05	3260	151.10	574	161.05	1537	172.00	563
141.80	82	151.60	211	162.10	548	173.00	845
142.05	1085	152.00	215	163.00	182	174.10	1276
143.10	919	153.05	898	163.80	254	175.10	2949
144.05	293	154.00	966	164.95	1178	176.10	825

Average of 3.169 to 3.179 min.: 5p29325.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
177.00	1086	188.00	458	200.10	693	210.30	664
178.10	198	189.00	1269	201.00	179	211.05	1360
179.00	4522	190.05	234	201.30	331	212.00	104
180.05	3278	191.05	522	201.70	243	213.10	107
181.05	1612	192.05	1347	203.00	849	215.05	317
182.05	340	193.05	1854	204.05	4734	216.00	892
183.10	217	194.10	479	205.05	7953	217.00	8368
183.95	385	194.90	197	206.10	33778	218.05	1049
185.10	2672	196.05	4716	207.00	4446	219.00	152
186.10	18339	198.00	139298	208.00	1020	219.60	97
187.10	4658	199.00	8642	209.10	380	219.90	131

Average of 3.169 to 3.179 min.: 5p29325.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
221.00	7753	232.00	100	244.10	16080	256.00	11072
222.10	241	234.00	349	245.05	2041	257.05	798
223.00	2168	234.95	557	246.00	2458	258.00	4035
224.05	18997	235.95	379	247.00	463	259.00	548

DFTPP5P.M Sun Jul 03 16:32:18 2016 RPT1 Page: 2

225.05	5048	237.05	653	249.05	680	259.70	70
226.10	766	238.00	92	250.80	112	260.05	150
227.00	7311	238.95	377	251.00	99	263.80	100
228.00	1187	240.05	277	252.05	271	264.95	1529
229.00	1625	241.10	491	252.75	229	265.90	263
230.05	253	242.00	833	253.05	423	267.75	138
231.05	806	243.10	1245	255.00	79706	270.10	77

Average of 3.169 to 3.179 min.: 5p29325.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
270.85	188	283.95	266	310.00	98	327.50	67
272.20	179	285.05	587	313.00	96	327.90	112
273.00	2448	291.90	82	313.90	425	328.10	161
274.00	6602	293.00	695	314.95	1083	332.10	142
275.00	34972	294.05	177	316.00	604	332.90	362
276.00	4847	296.00	9380	321.05	424	334.00	2055
277.00	2985	297.00	1238	321.90	113	335.00	413
277.90	390	300.95	176	322.10	88	340.90	108
281.00	70	302.05	173	323.05	3520	341.05	309
282.90	126	303.05	1246	324.00	523	345.80	211
283.10	136	304.00	356	327.00	516	345.95	424

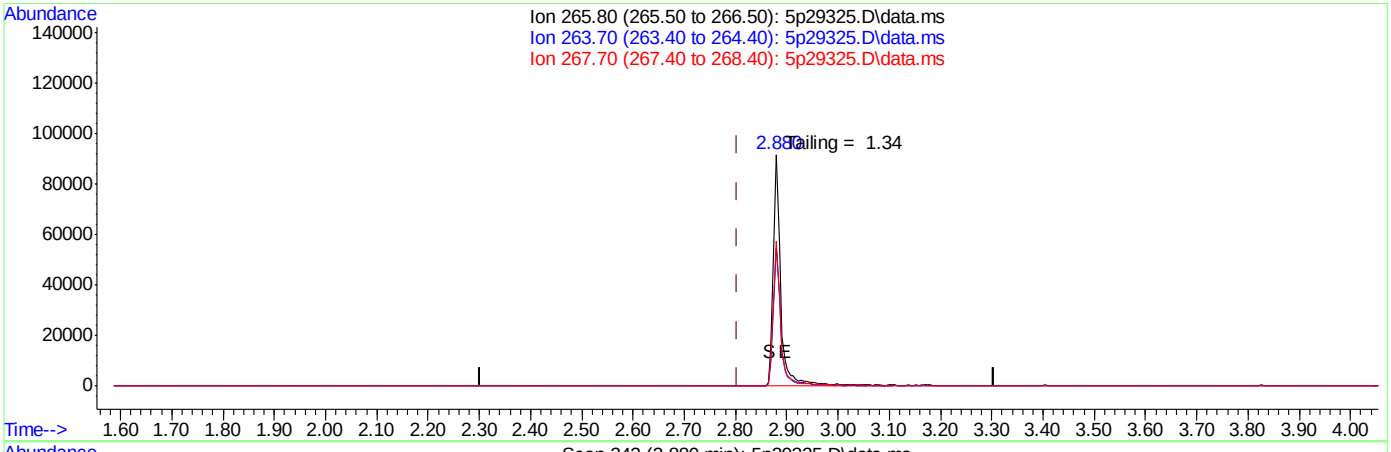
Average of 3.169 to 3.179 min.: 5p29325.D\data.ms
dftpp
Modified:subtracted

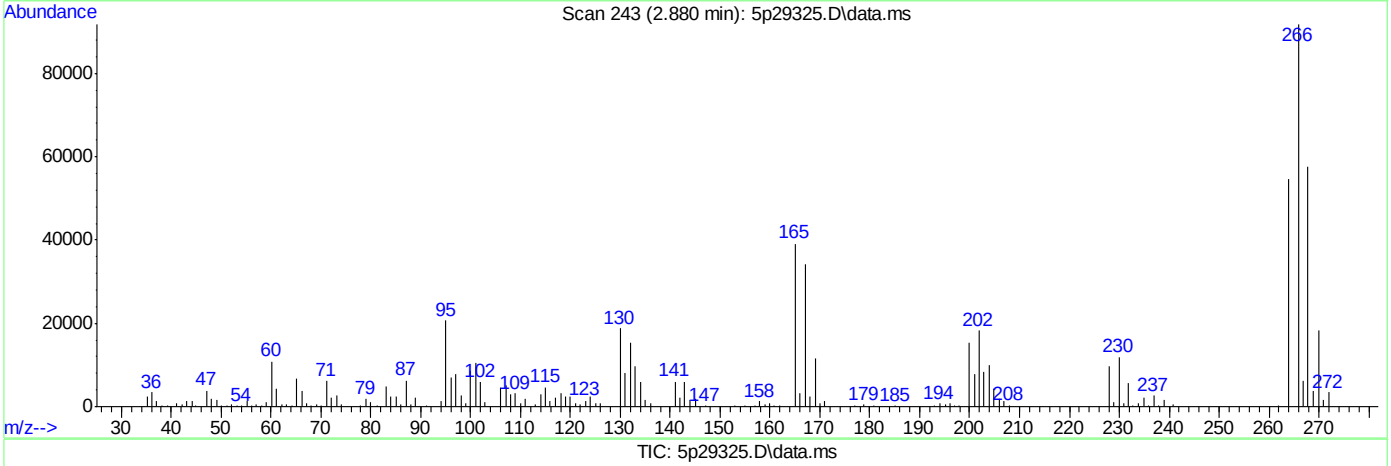
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
346.95	185	373.00	351	421.05	735	444.00	2165
352.00	1036	382.90	527	422.00	746		
352.70	69	383.90	93	422.95	7531		
353.00	622	389.95	290	424.00	1402		
354.05	1196	391.00	144	425.10	70		
354.95	181	392.10	82	432.30	91		
358.90	86	401.80	274	435.20	81		
364.95	4350	402.00	585	435.50	69		
366.00	718	402.90	1058	441.10	20591		
371.05	395	403.90	306	442.00	130277		
372.00	1918	420.90	511	443.00	24412		

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E5P1496\
Data File : 5p29325.D
Acq On : 1 Jul 2016 11:45 am
Operator : kristis
Sample : dftpp
Misc : op94797,e5p1496,1000,,,1,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 01 11:51:17 2016
Quant Method : C:\MSDCHEM\1\METHODS\DFTPP5P.M
Quant Title : Semi Volatile Extractables by GC/MS zb-5msi 30mx0.Tue Aug 25 09:34:01 2015
QLast Update : Tue Aug 25 09:34:01 2015
Response via : Initial Calibration





TIC: 5p29325.D\data.ms

(1) Pentachlorophenol (MC)

2.880min (+0.076) 55.23ng

response 92080

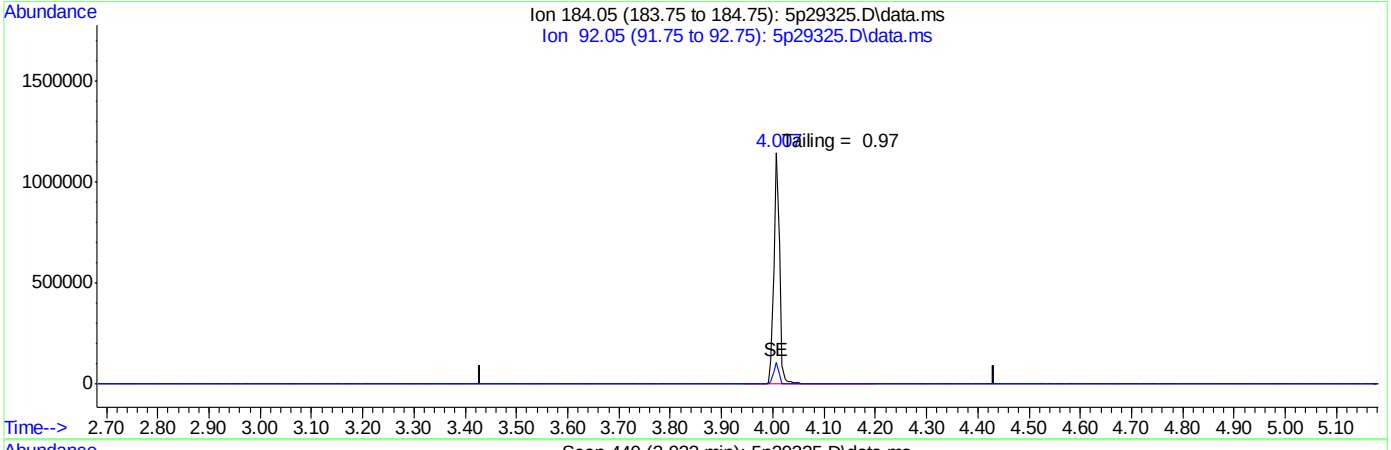
Ion	Exp%	Act%
265.80	100	100
263.70	64.70	59.28
267.70	64.60	62.60
0.00	0.00	0.00

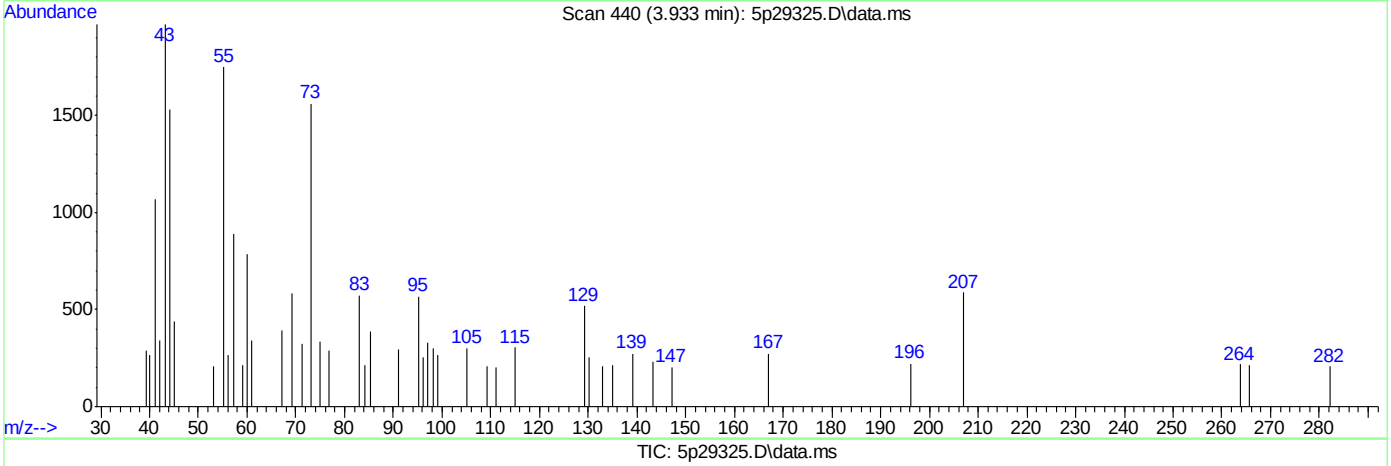
SGS ACCUTEST JC24133

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E5P1496\
Data File : 5p29325.D
Acq On : 1 Jul 2016 11:45 am
Operator : kristis
Sample : dftpp
Misc : op94797,e5p1496,1000,,,1,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 01 11:51:17 2016
Quant Method : C:\MSDCHEM\1\METHODS\DFTPP5P.M
Quant Title : Semi Volatile Extractables by GC/MS zb-5msi 30mx0.Tue Aug 25 09:34:01 2015
QLast Update : Tue Aug 25 09:34:01 2015
Response via : Initial Calibration





TIC: 5p29325.D\data.ms

(2) Benzidine (M)

3.931min (-3.931) 0.00ng

response 0

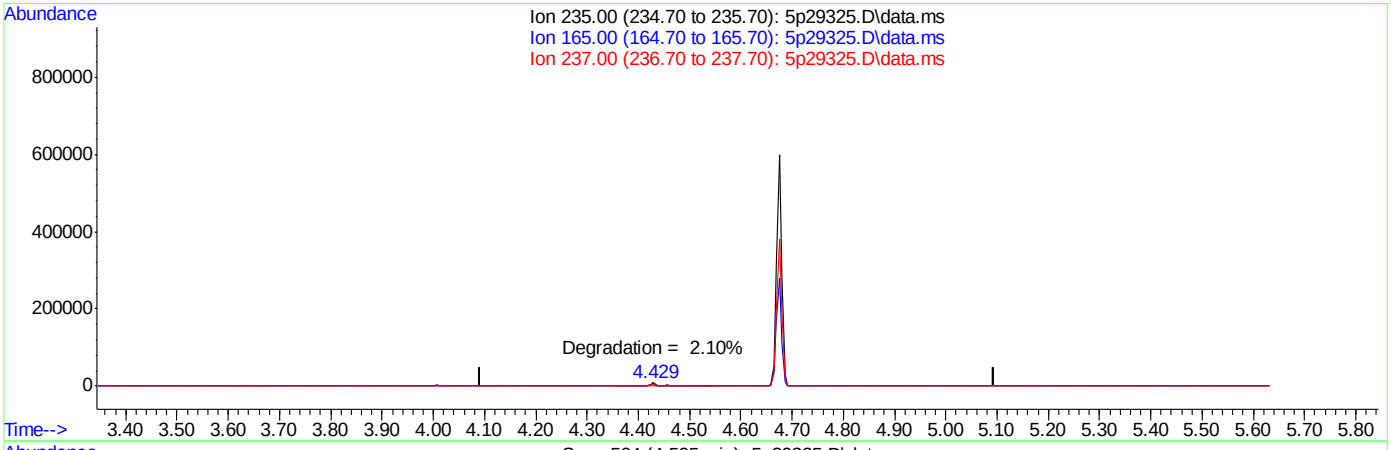
Ion	Exp%	Act%
184.05	100	0.00
92.05	11.60	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

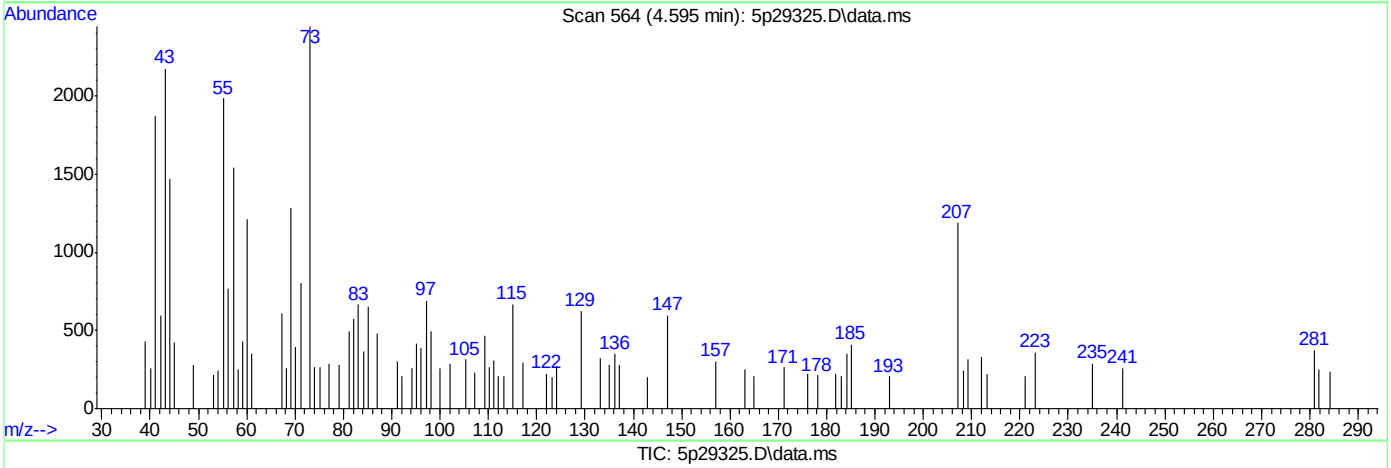
SGS ACCUTEST JC24133

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E5P1496\
Data File : 5p29325.D
Acq On : 1 Jul 2016 11:45 am
Operator : kristis
Sample : dftpp
Misc : op94797,e5p1496,1000,,,1,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 01 11:51:17 2016
Quant Method : C:\MSDCHEM\1\METHODS\DFTPP5P.M
Quant Title : Semi Volatile Extractables by GC/MS zb-5msi 30mx0.Tue Aug 25 09:34:01 2015
QLast Update : Tue Aug 25 09:34:01 2015
Response via : Initial Calibration





TIC: 5p29325.D\data.ms

(3) PP-DDT (MC)

4.594min (-4.594) 0.00ppb

response 0

Ion	Exp%	Act%
235.00	100	0.00
165.00	58.00	0.00#
237.00	62.20	0.00#
0.00	0.00	0.00

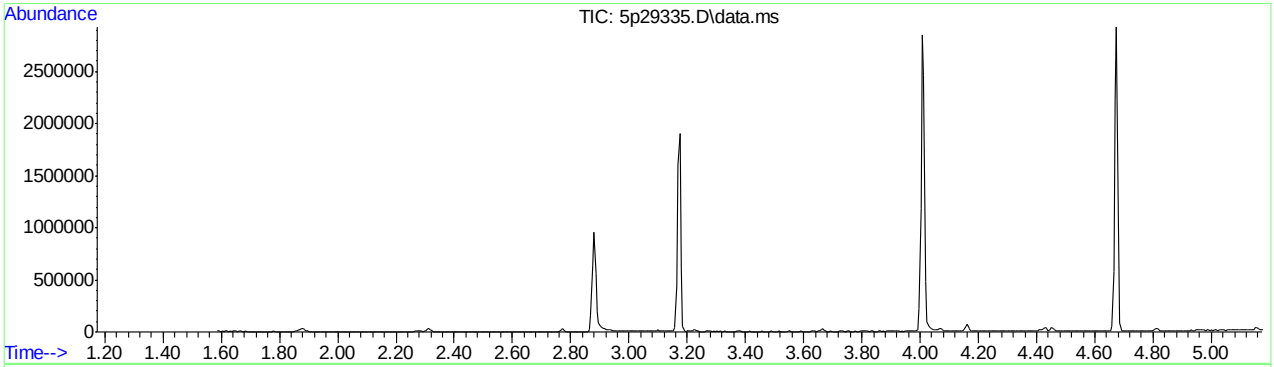
SGS ACCUTEST JC24133

DFTPPR

Data Path : C:\msdchem\1\DATA\E5P1497\
Data File : 5p29335.D
Acq On : 1 Jul 2016 4:47 pm
Operator : ashleyn
Sample : dftpp
Misc : op94797,e5p1497
ALS Vial : 1 Sample Multiplier: 1

Integration File: rteint.p

Method : C:\MSDCHEM\1\METHODS\DFTPP5P.M
Title : Semi Volatile Extractables by GC/MS zb-5msi 30mx0.Tue Aug 25 09:34:01 2015
Last Update : Tue Aug 25 09:34:01 2015



AutoFind: Scans 297, 298, 299; Background Corrected with Scan 292
AUTOFIND via AUTOINTEGRATE

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	35.8	56036	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	40.0	62492	PASS
70	69	0.00	2	0.4	275	PASS
127	198	40	60	54.1	84560	PASS
197	198	0.00	1	0.3	527	PASS
198	198	100	100	100.0	156360	PASS
199	198	5	9	6.7	10436	PASS
275	198	10	30	24.7	38696	PASS
365	198	1	100	2.8	4365	PASS
441	443	0.10	100	75.2	21978	PASS
442	198	40	100	97.2	151904	PASS
443	442	17	23	19.2	29237	PASS

Average of 3.169 to 3.179 min.: 5p29335.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
37.10	191	56.10	1844	70.00	275	82.10	1302
38.15	575	57.10	4109	71.05	249	83.10	1370
39.15	4159	58.05	176	73.10	385	84.00	50
40.00	40	60.05	365	74.10	6041	85.10	1117
45.10	79	61.10	769	75.10	9301	86.05	1380
49.15	684	62.10	618	76.15	3079	87.05	673
50.10	14083	63.10	2447	77.10	68858	88.00	259
51.05	56036	64.05	294	78.10	4782	89.20	81
52.10	2729	65.10	1287	79.10	3979	91.05	952
53.05	198	67.05	159	80.05	3511	92.05	1225
55.10	67	69.10	62492	81.10	4674	93.05	6309

Average of 3.169 to 3.179 min.: 5p29335.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
94.10	561	106.10	288	119.00	98	131.95	296
95.00	344	107.10	21299	120.05	318	132.45	238
96.10	464	108.10	3628	122.05	1342	133.00	82
98.10	5290	110.05	43328	123.05	2235	134.00	755
99.10	4526	111.05	6114	124.10	1028	135.10	2551
100.05	356	112.05	842	125.10	927	136.00	1114
101.05	2959	113.05	167	127.10	84560	137.10	1318
102.10	72	114.90	105	128.05	6473	137.95	310
103.05	888	116.05	1058	129.00	31636	139.10	205
104.05	1679	117.00	13291	130.05	2774	140.05	354
105.00	1693	118.05	1102	131.00	648	141.05	3668

Average of 3.169 to 3.179 min.: 5p29335.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
142.00	1046	150.15	195	161.05	1637	171.00	437
143.00	818	151.05	612	162.05	505	171.95	554
143.20	124	152.05	370	163.10	77	173.10	755
144.00	148	153.00	1340	163.95	223	174.10	1507
144.90	101	154.00	959	165.00	1570	175.10	2713
146.00	683	155.10	2097	166.10	1263	176.05	919
147.05	1733	156.10	3211	167.00	7376	177.00	1168
148.00	3689	157.10	781	168.05	3474	178.10	372
149.00	803	158.00	644	169.10	603	179.00	4685
149.20	86	159.00	555	169.90	131	180.10	3552
150.00	111	160.00	1031	170.10	194	181.10	1843

Average of 3.169 to 3.179 min.: 5p29335.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
182.00	320	194.05	308	204.00	5005	214.00	71
184.05	592	195.00	182	205.10	8864	215.05	384
185.05	2728	196.05	5509	206.10	35680	215.95	673
186.10	20782	196.70	527	207.05	4581	217.00	8961
187.05	5383	198.00	156360	208.00	1208	218.00	1135
188.05	593	199.00	10436	209.00	321	219.20	95
189.00	1245	200.05	869	210.10	362	219.60	97
189.95	177	200.95	301	210.60	224	221.05	10328
191.00	804	201.50	666	211.00	1471	223.00	2336
192.00	1552	202.10	109	211.90	136	224.05	20505
193.05	1942	203.10	975	213.10	82	225.05	5081

Average of 3.169 to 3.179 min.: 5p29335.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
226.10	386	237.00	646	248.10	83	258.00	4423
227.00	7445	238.00	165	249.00	531	259.05	660
228.00	1240	239.05	373	250.00	121	261.00	107
229.00	1654	239.95	215	250.80	76	264.00	303

DFTPP5P.M Sun Jul 03 16:32:59 2016 RPT1 Page: 2

229.95	296	241.05	324	251.00	81	265.00	1813
231.05	633	242.10	1116	252.00	99	266.00	505
232.00	67	243.10	1065	252.85	373	269.90	73
233.10	75	244.05	16570	253.15	278	271.00	187
234.05	569	245.05	1975	255.00	83936	272.05	308
235.00	589	246.00	2626	256.00	11942	273.00	2483
236.00	358	247.00	476	257.00	978	274.00	7043

Average of 3.169 to 3.179 min.: 5p29335.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
275.00	38696	293.00	803	315.00	1080	335.05	660
276.00	5485	294.10	248	315.95	594	341.05	449
277.00	2870	294.90	118	321.00	408	342.10	151
278.05	320	296.00	9064	321.80	91	346.00	663
279.20	72	297.00	1398	323.05	3609	346.90	79
283.00	384	301.95	199	324.00	749	352.00	1020
284.05	395	303.00	1305	327.00	595	353.00	641
285.00	678	304.00	359	328.00	332	354.00	1338
286.10	73	308.00	122	332.00	319	355.05	173
291.10	71	309.00	67	333.00	108	364.95	4365
292.00	113	314.00	374	334.00	2306	365.80	196

Average of 3.169 to 3.179 min.: 5p29335.D\data.ms
dftpp
Modified:subtracted

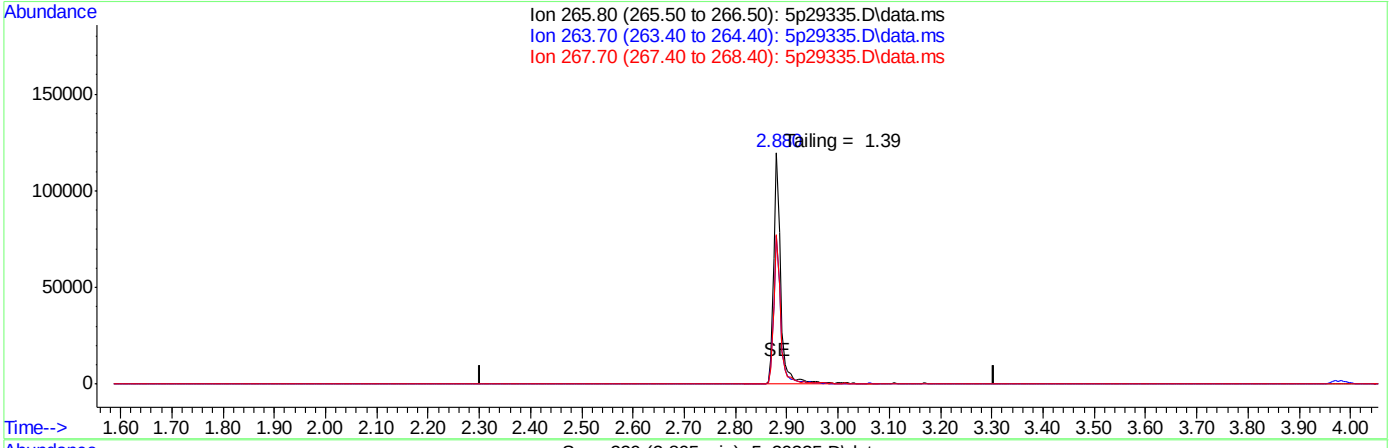
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
366.00	520	402.95	1533	441.05	21978		
371.05	332	403.95	428	442.00	151904		
372.05	2124	421.00	1286	443.00	29237		
372.90	486	422.05	1011	444.00	2721		
383.00	595	423.00	8361	444.90	69		
384.10	95	424.00	1648				
389.95	409	424.90	85				
391.10	222	430.40	72				
392.00	66	434.30	90				
400.90	77	435.10	69				
401.95	757	437.80	68				

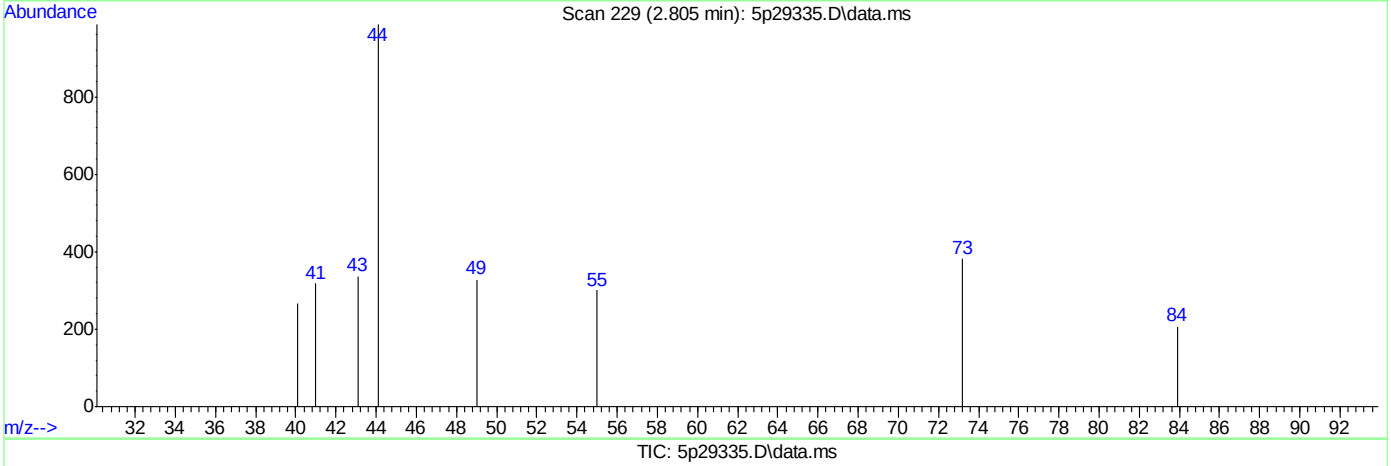
SGS ACCUTEST JC24133

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E5P1497\
Data File : 5p29335.D
Acq On : 1 Jul 2016 4:47 pm
Operator : ashleyn
Sample : dftpp
Misc : op94797,e5p1497
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 01 16:53:09 2016
Quant Method : C:\MSDCHEM\1\METHODS\DFTPP5P.M
Quant Title : Semi Volatile Extractables by GC/MS zb-5msi 30mx0.Tue Aug 25 09:34:01 2015
QLast Update : Tue Aug 25 09:34:01 2015
Response via : Initial Calibration





TIC: 5p29335.D\data.ms

(1) Pentachlorophenol (MC)

2.804min (-2.804) 0.00ng

response 0

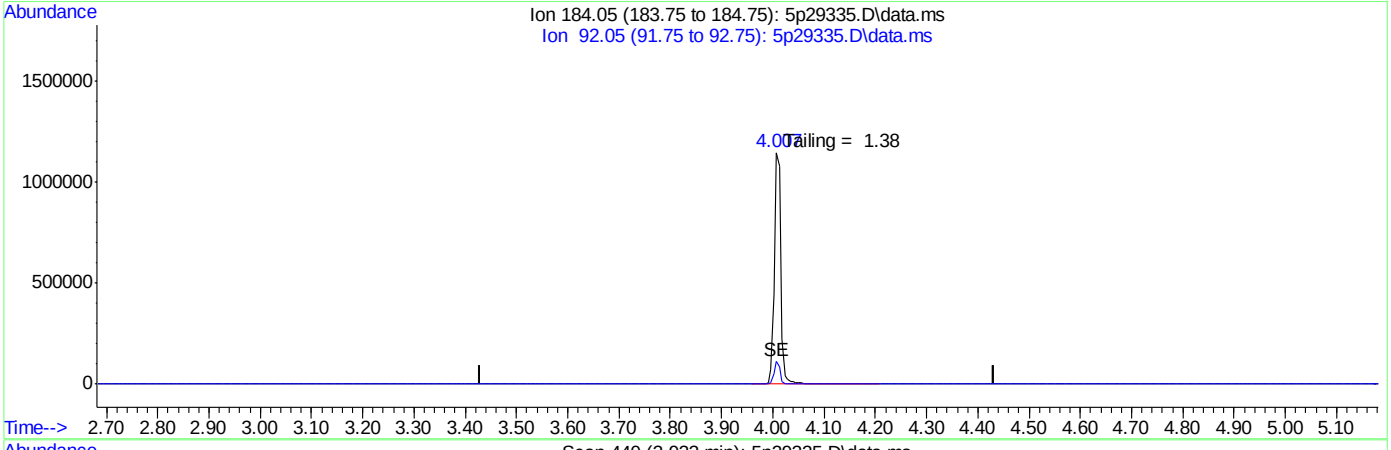
Ion	Exp%	Act%
265.80	100	0.00
263.70	64.70	0.00#
267.70	64.60	0.00#
0.00	0.00	0.00

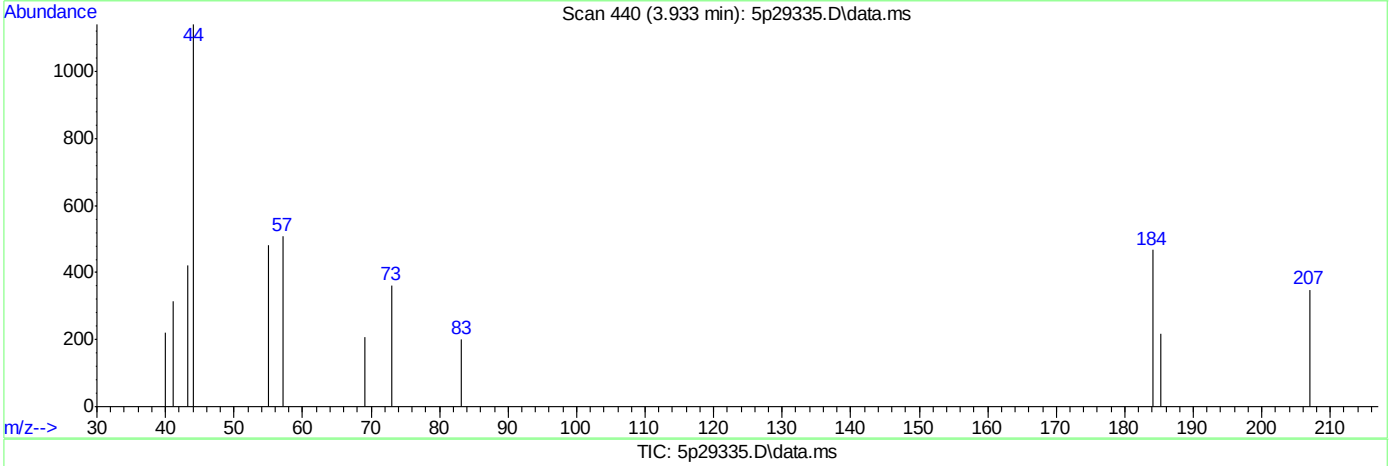
SGS ACCUTEST JC24133

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E5P1497\
Data File : 5p29335.D
Acq On : 1 Jul 2016 4:47 pm
Operator : ashleyn
Sample : dftpp
Misc : op94797,e5p1497
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 01 16:53:09 2016
Quant Method : C:\MSDCHEM\1\METHODS\DFTPP5P.M
Quant Title : Semi Volatile Extractables by GC/MS zb-5msi 30mx0.Tue Aug 25 09:34:01 2015
QLast Update : Tue Aug 25 09:34:01 2015
Response via : Initial Calibration





TIC: 5p29335.D\data.ms

(2) Benzidine (M)

3.931min (-3.931) 0.00ng

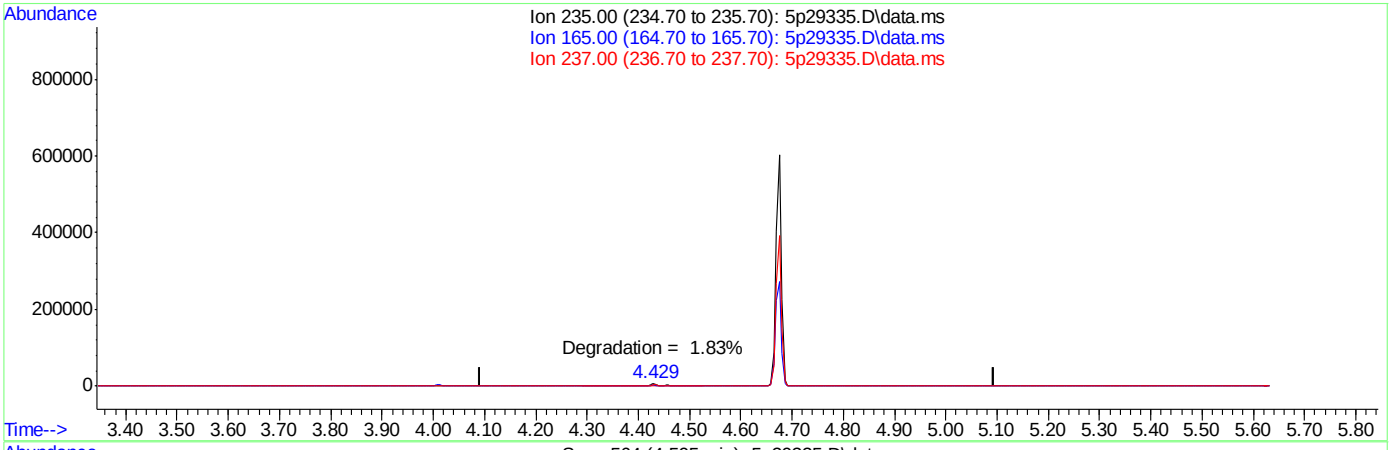
response 0

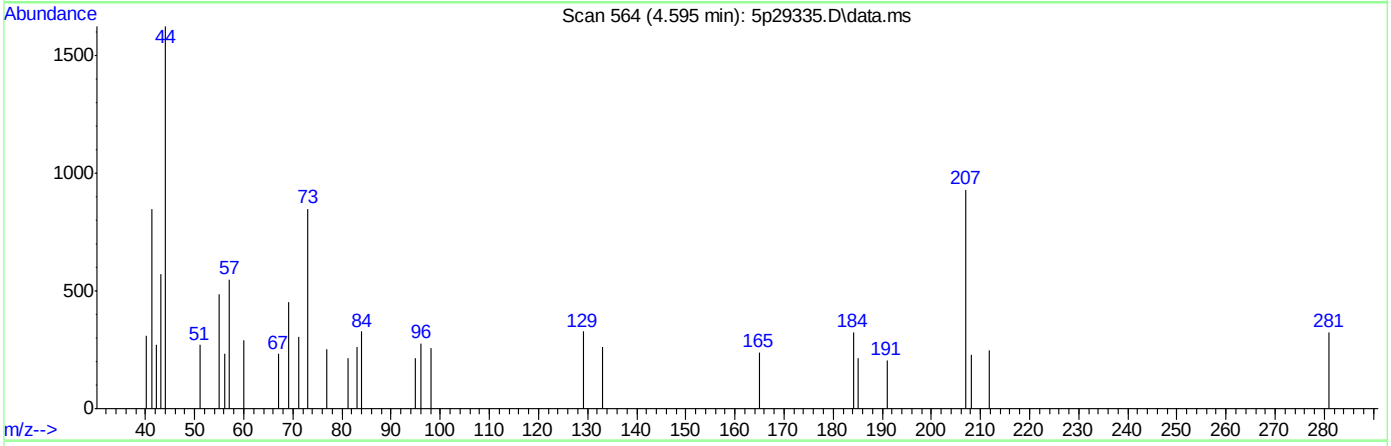
Ion	Exp%	Act%
184.05	100	0.00
92.05	11.60	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E5P1497\
Data File : 5p29335.D
Acq On : 1 Jul 2016 4:47 pm
Operator : ashleyn
Sample : dftpp
Misc : op94797,e5p1497
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 01 16:53:09 2016
Quant Method : C:\MSDCHEM\1\METHODS\DFTPP5P.M
Quant Title : Semi Volatile Extractables by GC/MS zb-5msi 30mx0.Tue Aug 25 09:34:01 2015
QLast Update : Tue Aug 25 09:34:01 2015
Response via : Initial Calibration





TIC: 5p29335.D\data.ms

(3) PP-DDT (MC)

4.594min (-4.594) 0.00ppb

response 0

Ion	Exp%	Act%
235.00	100	0.00
165.00	58.00	0.00#
237.00	62.20	0.00#
0.00	0.00	0.00

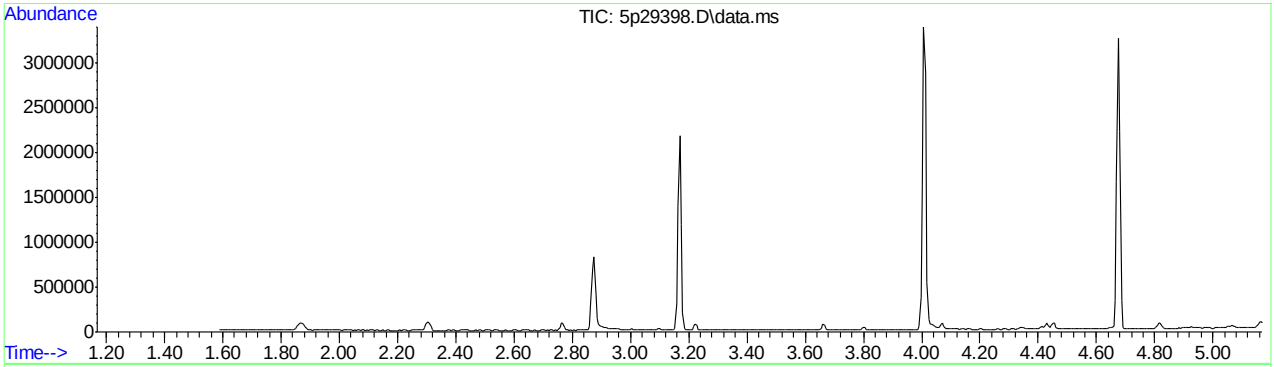
SGS ACCUTEST JC24133

DFTPPR

Data Path : C:\msdchem\1\DATA\E5P1500\
Data File : 5p29398.D
Acq On : 5 Jul 2016 9:09 am
Operator : ashleyd
Sample : dftpp
Misc : op94797,e5p1500
ALS Vial : 1 Sample Multiplier: 1

Integration File: rteint.p

Method : C:\MSDCHEM\1\METHODS\DFTPP5P.M
Title : Semi Volatile Extractables by GC/MS zb-5msi 30mx0.Tue Aug 25 09:34:01 2015
Last Update : Tue Aug 25 09:34:01 2015



AutoFind: Scans 296, 297, 298; Background Corrected with Scan 292
AUTOFIND via AUTOINTEGRATE

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	37.4	67454	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	42.8	77340	PASS
70	69	0.00	2	0.6	499	PASS
127	198	40	60	55.7	100623	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	180501	PASS
199	198	5	9	6.5	11817	PASS
275	198	10	30	23.7	42778	PASS
365	198	1	100	2.9	5269	PASS
441	443	0.10	100	80.7	25449	PASS
442	198	40	100	91.7	165608	PASS
443	442	17	23	19.1	31552	PASS

Average of 3.163 to 3.174 min.: 5p29398.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
35.10	119	51.10	67454	64.00	374	77.10	85413
36.00	97	52.10	3263	65.10	1456	78.10	5403
37.00	394	53.00	210	66.10	79	79.05	4693
38.20	854	53.20	84	67.05	70	80.10	3706
39.10	5341	55.10	40	69.10	77340	81.05	5508
40.05	248	56.10	1996	70.05	499	82.00	1762
41.10	305	57.10	4853	71.15	200	83.10	1364
43.10	203	58.05	253	73.10	164	85.10	1087
45.15	64	61.10	1024	74.10	7007	86.00	1162
48.10	135	62.10	978	75.10	11410	87.10	746
50.10	16573	63.10	2670	76.10	4388	88.00	239

Average of 3.163 to 3.174 min.: 5p29398.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
89.10	124	101.05	3256	112.90	175	127.10	100623
91.05	1340	101.90	85	116.05	1414	128.10	7564
92.05	1238	102.20	106	117.10	16148	129.05	36220
93.10	8264	103.05	1055	118.05	1410	130.05	3103
94.10	740	104.05	1784	119.10	231	131.05	610
95.10	129	105.10	1924	120.10	374	132.05	425
96.05	490	107.10	25665	121.00	31	133.05	230
97.00	215	108.10	4157	122.05	1608	134.05	1246
98.10	5799	110.05	50997	123.05	2955	135.10	2912
99.10	5213	111.05	7625	124.00	1264	136.05	1190
100.00	517	112.10	847	125.05	929	137.10	1361

Average of 3.163 to 3.174 min.: 5p29398.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
137.80	204	147.05	2100	157.05	1124	167.10	8125
138.10	155	148.00	5081	158.00	767	168.05	3453
138.60	77	149.05	1040	158.95	616	169.05	654
139.30	110	150.15	358	160.00	1524	170.10	133
140.05	564	151.15	781	161.00	2027	170.40	76
141.05	4597	151.80	234	162.05	640	170.70	86
142.00	1524	152.00	197	162.95	305	171.00	231
143.05	1264	153.10	1349	163.40	73	172.00	764
144.05	256	154.05	1110	164.10	218	173.10	983
145.10	233	155.05	2396	165.05	1470	174.10	1833
146.00	806	156.10	3592	166.05	1442	175.05	3045

Average of 3.163 to 3.174 min.: 5p29398.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
176.05	1176	187.10	6407	198.00	180501	208.05	1344
177.10	1815	188.15	678	199.00	11817	209.00	459
178.00	762	189.00	1579	200.05	981	210.05	564
179.00	5826	190.00	115	201.20	196	210.80	379
180.10	4520	191.10	686	201.55	796	211.00	1233
181.00	1969	192.10	1876	202.90	335	211.70	174
182.10	284	193.10	1882	203.10	947	214.10	71
182.90	81	194.00	487	204.10	5821	215.05	437
184.00	417	194.90	137	205.10	9349	216.10	360
185.05	2912	195.20	244	206.10	40261	217.00	9259
186.10	24264	196.05	6082	207.05	5595	218.00	1307

Average of 3.163 to 3.174 min.: 5p29398.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
219.10	83	230.00	274	242.05	1124	252.95	512
219.60	69	231.00	784	243.00	1263	253.20	142
219.80	108	232.00	71	244.10	18482	255.00	93349
221.05	10677	232.90	118	245.10	2817	256.05	13557

DFTPP5P.M Wed Jul 06 12:23:30 2016 RPT1 Page: 2

223.05	2944	234.05	476	246.00	3160	257.00	1156
224.10	22426	235.00	673	247.00	627	258.00	4831
225.05	5383	236.10	467	247.90	145	259.00	572
226.10	457	237.05	756	249.00	568	261.00	74
227.00	9044	239.00	291	249.95	159	264.00	108
228.05	1526	240.00	277	250.90	75	265.00	2020
229.00	2220	241.05	623	252.10	147	266.05	384

Average of 3.163 to 3.174 min.: 5p29398.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
267.70	78	279.00	109	296.00	10015	313.95	514
268.00	140	281.00	149	297.00	1505	314.95	1273
269.90	67	282.95	383	298.00	79	315.95	820
270.90	102	284.00	104	300.90	103	317.00	99
271.90	357	284.20	98	301.10	70	321.00	390
273.00	2896	285.05	554	303.00	1276	322.10	136
274.00	7373	289.00	68	303.90	133	323.05	4062
275.00	42778	292.00	123	304.15	252	324.00	766
276.05	5639	293.05	812	307.70	71	325.10	78
277.00	3274	294.00	121	308.10	70	326.95	745
278.00	573	295.00	141	310.00	67	328.05	432

Average of 3.163 to 3.174 min.: 5p29398.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
332.00	117	354.00	1232	389.95	296	424.05	2012
332.95	443	355.00	228	390.90	126	424.85	300
334.05	2582	359.05	144	391.10	99	428.40	79
335.05	816	364.95	5269	392.00	71	433.30	70
341.00	439	366.05	792	400.95	150	433.90	89
342.05	149	369.90	102	402.00	1036	435.80	82
346.05	830	370.95	259	403.00	1356	438.30	78
346.80	70	371.95	2313	404.00	540	441.00	25449
350.90	69	372.95	685	421.00	1121	442.00	165608
352.00	1134	383.00	609	422.05	1218	443.00	31552
353.00	1023	384.00	169	423.00	9198	444.00	2827

Average of 3.163 to 3.174 min.: 5p29398.D\data.ms
dftpp
Modified:subtracted

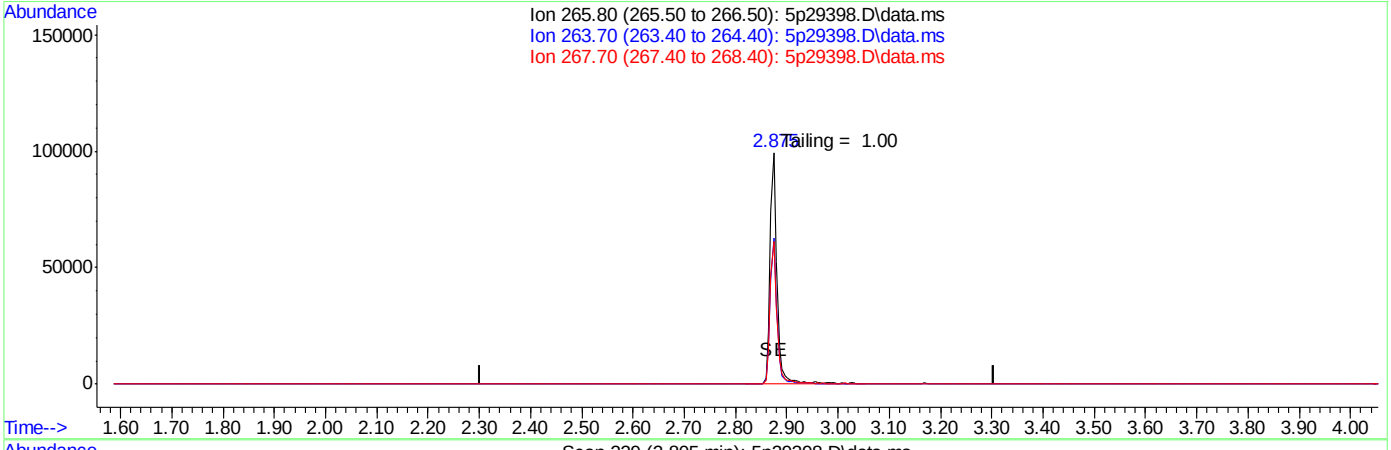
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
445.00	98						

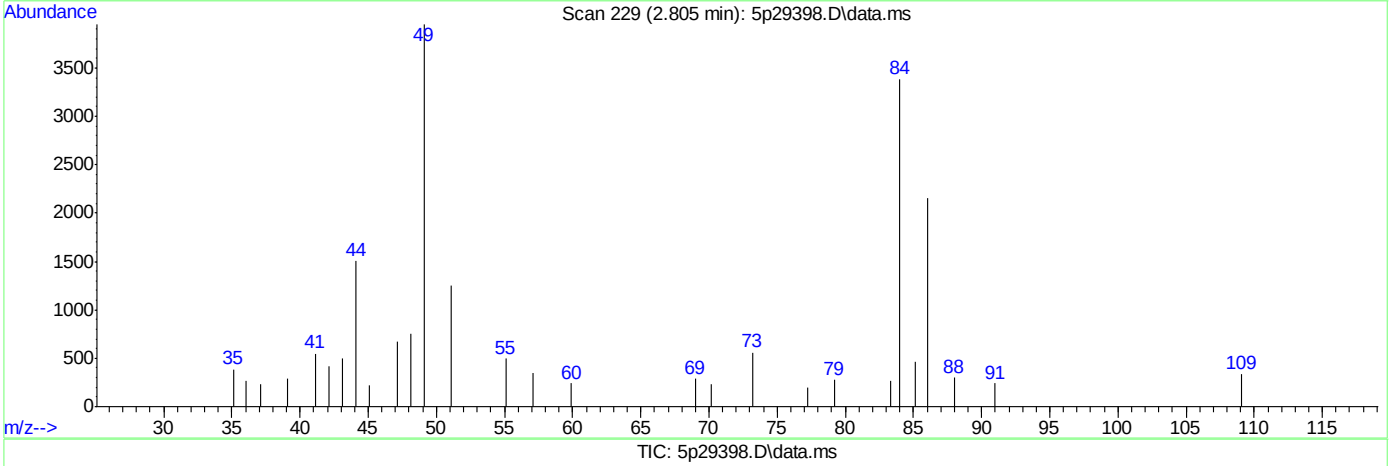
SGS ACCUTEST JC24133

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E5P1500\
Data File : 5p29398.D
Acq On : 5 Jul 2016 9:09 am
Operator : ashleyd
Sample : dftpp
Misc : op94797,e5p1500
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 05 09:14:44 2016
Quant Method : C:\MSDCHEM\1\METHODS\DFTPP5P.M
Quant Title : Semi Volatile Extractables by GC/MS zb-5msi 30mx0.Tue Aug 25 09:34:01 2015
QLast Update : Tue Aug 25 09:34:01 2015
Response via : Initial Calibration





TIC: 5p29398.D\data.ms

(1) Pentachlorophenol (MC)

2.804min (-2.804) 0.00ng

response 0

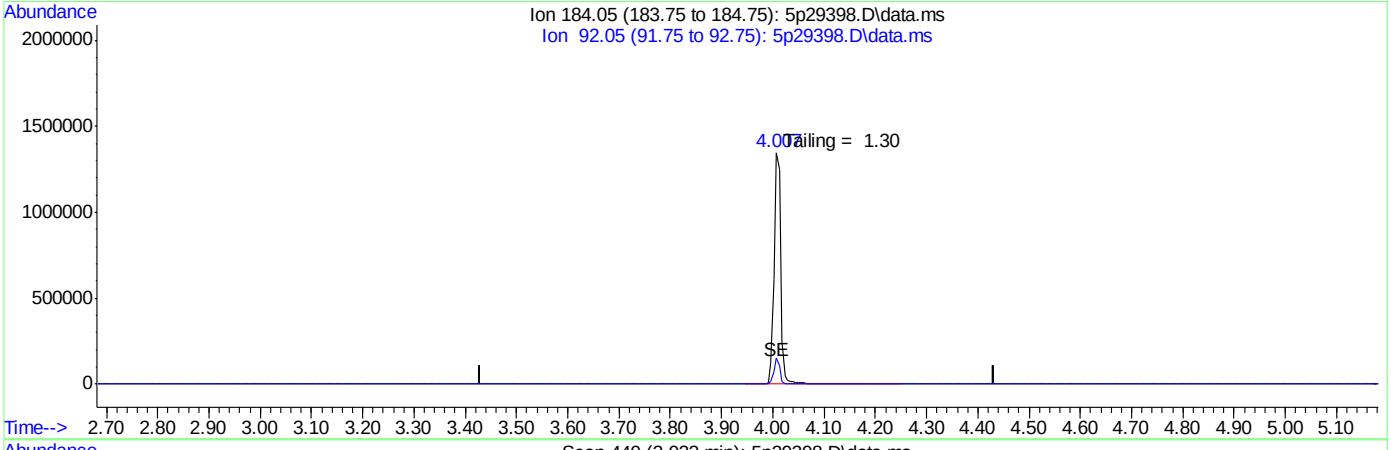
Ion	Exp%	Act%
265.80	100	0.00
263.70	64.70	0.00#
267.70	64.60	0.00#
0.00	0.00	0.00

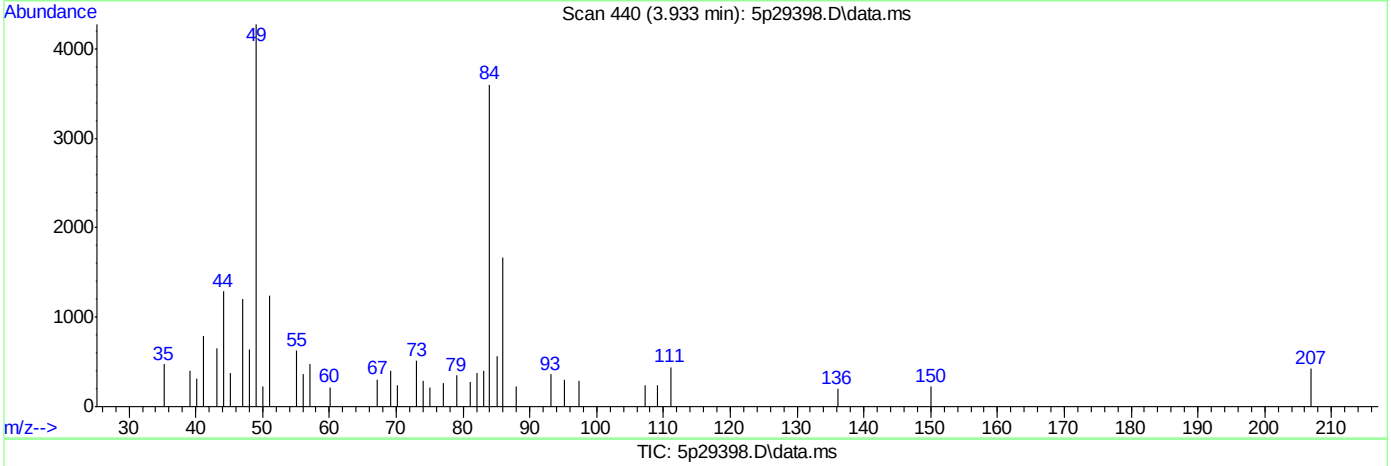
SGS ACCUTEST JC24133

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E5P1500\
Data File : 5p29398.D
Acq On : 5 Jul 2016 9:09 am
Operator : ashleyd
Sample : dftpp
Misc : op94797,e5p1500
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 05 09:14:44 2016
Quant Method : C:\MSDCHEM\1\METHODS\DFTPP5P.M
Quant Title : Semi Volatile Extractables by GC/MS zb-5msi 30mx0.Tue Aug 25 09:34:01 2015
QLast Update : Tue Aug 25 09:34:01 2015
Response via : Initial Calibration





TIC: 5p29398.D\data.ms

(2) Benzidine (M)

3.931min (-3.931) 0.00ng

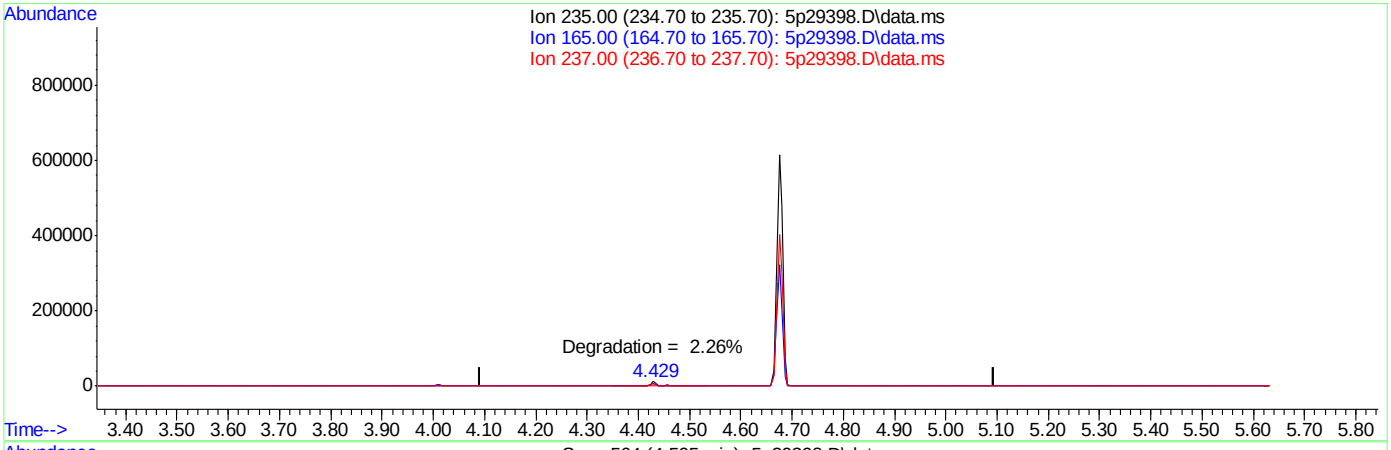
response 0

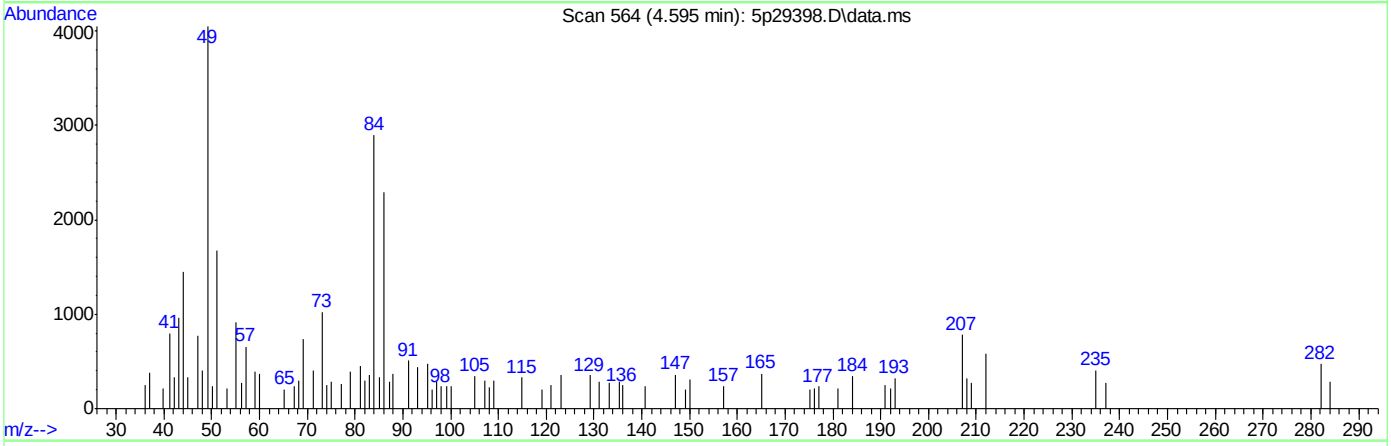
Ion	Exp%	Act%
184.05	100	0.00
92.05	11.60	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E5P1500\
Data File : 5p29398.D
Acq On : 5 Jul 2016 9:09 am
Operator : ashleyd
Sample : dftpp
Misc : op94797,e5p1500
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 05 09:14:44 2016
Quant Method : C:\MSDCHEM\1\METHODS\DFTPP5P.M
Quant Title : Semi Volatile Extractables by GC/MS zb-5msi 30mx0.Tue Aug 25 09:34:01 2015
QLast Update : Tue Aug 25 09:34:01 2015
Response via : Initial Calibration





TIC: 5p29398.D\data.ms

(3) PP-DDT (MC)

4.594min (-4.594) 0.00ppb

response 0

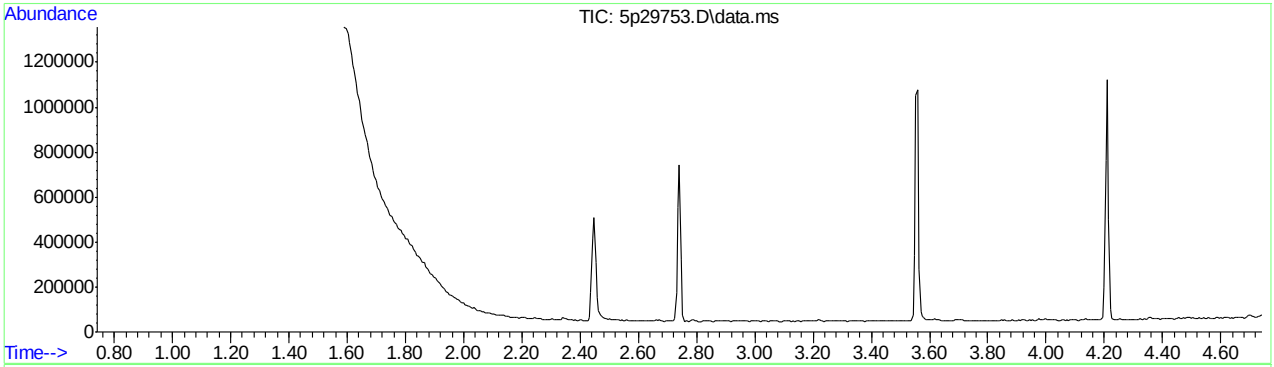
Ion	Exp%	Act%
235.00	100	0.00
165.00	58.00	0.00#
237.00	62.20	0.00#
0.00	0.00	0.00

DFTPPR

Data Path : C:\msdchem\1\DATA\E5P1518\
Data File : 5p29753.D
Acq On : 18 Jul 2016 9:13 am
Operator : ashleyn
Sample : dftpp
Misc : op94707a,e5p1518
ALS Vial : 1 Sample Multiplier: 1

Integration File: rteint.p

Method : C:\MSDCHEM\1\METHODS\DFTPP5P.M
Title : Semi Volatile Extractables by GC/MS zb-5msi 30mx0.Tue Aug 25 09:34:01 2015
Last Update : Tue Aug 25 09:34:01 2015



AutoFind: Scans 216, 217, 218; Background Corrected with Scan 212
AUTOFIND via AUTOINTEGRATE

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	30.7	17242	PASS
68	69	0.00	2	0.5	108	PASS
69	198	0.00	100	40.1	22514	PASS
70	69	0.00	2	1.2	261	PASS
127	198	40	60	58.4	32812	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	56192	PASS
199	198	5	9	6.2	3493	PASS
275	198	10	30	24.2	13575	PASS
365	198	1	100	3.6	2048	PASS
441	443	0.10	100	82.0	8445	PASS
442	198	40	100	93.7	52664	PASS
443	442	17	23	19.6	10301	PASS

SGS ACCUTEST JC24133

Average of 2.736 to 2.747 min.: 5p29753.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.10	59	57.10	1306	74.10	2238	87.00	263
37.10	68	60.00	106	75.10	3394	91.10	392
38.10	300	61.10	67	76.10	1102	92.05	507
39.10	1240	62.10	217	77.05	22892	93.05	2798
40.00	96	63.10	894	78.10	1864	94.05	225
40.15	168	65.10	451	79.10	1462	96.00	53
45.15	169	67.00	92	80.05	1099	97.05	344
50.10	4383	68.10	108	81.10	1588	98.05	1746
51.10	17242	69.10	22514	82.00	535	99.00	1530
52.10	1203	70.05	261	83.00	296	100.10	83
56.05	454	73.15	248	85.05	354	101.05	1134

Average of 2.736 to 2.747 min.: 5p29753.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
103.05	479	116.10	491	129.05	12823	142.05	471
104.05	626	117.05	5999	130.05	1168	143.00	320
105.05	671	118.10	510	131.10	302	144.00	197
106.00	77	119.10	149	132.10	89	146.05	194
107.10	8093	121.05	157	134.05	429	147.00	714
108.00	1344	122.05	653	135.05	823	148.00	1533
110.05	16177	123.10	788	136.05	476	149.10	391
111.05	2450	124.00	495	137.10	525	151.10	207
112.10	268	125.05	330	138.00	110	151.60	108
113.10	89	127.10	32812	140.15	146	153.00	446
115.00	68	128.05	2320	141.10	1396	154.00	294

Average of 2.736 to 2.747 min.: 5p29753.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
155.05	786	166.00	495	178.05	205	191.05	216
156.10	1487	167.10	2885	179.00	2263	192.00	856
157.15	233	168.05	1301	180.00	1384	193.05	801
158.00	266	168.95	201	181.00	696	194.10	115
158.90	160	170.00	106	181.90	79	196.00	2001
160.00	589	171.90	164	184.05	201	198.00	56192
161.00	674	173.00	338	185.10	1094	199.00	3493
161.80	85	174.05	516	186.10	8069	200.10	290
162.10	152	175.10	1050	187.05	2335	201.50	318
164.20	68	176.05	419	188.10	264	203.00	448
165.00	592	176.95	540	189.00	571	204.05	1891

Average of 2.736 to 2.747 min.: 5p29753.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
205.00	3555	218.00	560	230.10	77	246.00	1026
206.10	12828	221.00	3478	231.10	225	247.00	244
207.05	1533	222.00	197	235.00	105	249.00	179
208.05	546	223.00	811	236.00	108	253.00	115
209.10	92	224.10	7038	237.05	263	254.00	109
210.10	122	225.10	1761	238.90	67	255.00	30602
210.85	392	226.10	211	241.00	208	256.00	4512
211.10	309	227.00	3017	242.00	410	257.00	364
215.00	73	227.90	159	243.05	435	258.00	1675
216.00	323	228.05	252	244.00	5713	259.00	305
217.00	3300	229.00	516	245.05	889	264.95	712

Average of 2.736 to 2.747 min.: 5p29753.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
266.00	67	296.00	3727	334.00	891	373.00	101
272.00	75	296.90	474	334.95	206	382.90	104
273.00	943	303.00	603	340.95	179	391.80	66
274.05	2417	314.05	146	345.90	237	401.90	269

DFTPP5P.M Mon Jul 18 12:40:42 2016 RPT1 Page: 2

275.00	13575	314.95	384	351.90	293	402.90	275
276.05	1643	316.05	325	353.00	349	403.10	107
276.95	995	323.05	1324	354.05	471	403.70	69
278.00	184	324.00	173	365.00	2048	403.90	98
282.90	67	326.95	352	366.05	263	421.00	484
285.05	194	332.00	83	371.00	77	422.10	219
293.00	259	333.10	102	372.05	811	423.00	2706

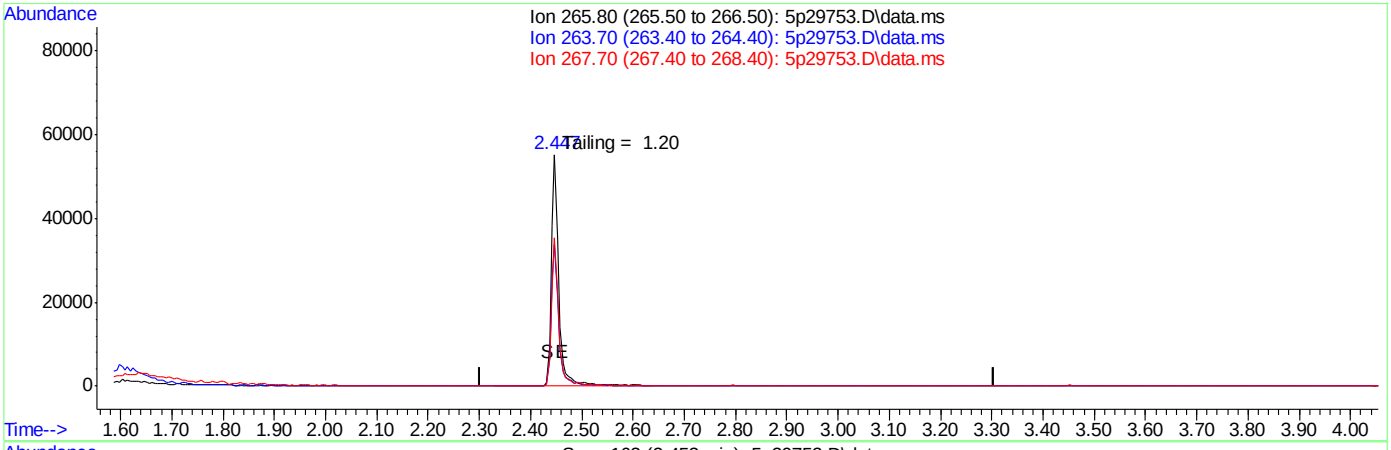
Average of 2.736 to 2.747 min.: 5p29753.D\data.ms
dftpp
Modified:subtracted

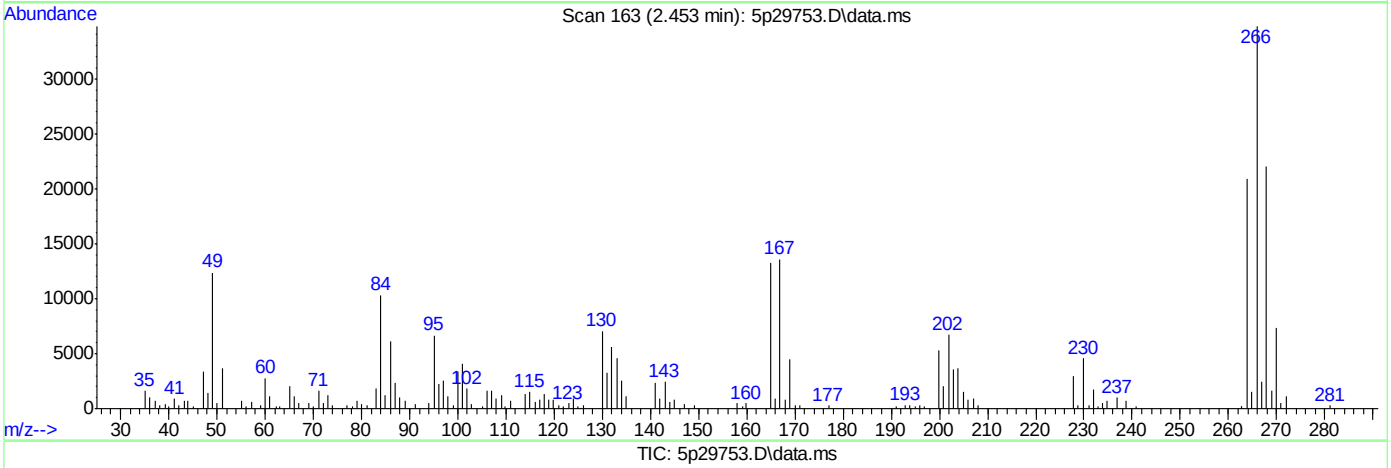
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
423.95	656						
441.00	8445						
442.00	52664						
443.00	10301						
444.00	1002						

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E5P1518\
Data File : 5p29753.D
Acq On : 18 Jul 2016 9:13 am
Operator : ashleyn
Sample : dftpp
Misc : op94707a,e5p1518
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 18 09:19:17 2016
Quant Method : C:\MSDCHEM\1\METHODS\DFTPP5P.M
Quant Title : Semi Volatile Extractables by GC/MS zb-5msi 30mx0.Tue Aug 25 09:34:01 2015
QLast Update : Tue Aug 25 09:34:01 2015
Response via : Initial Calibration





TIC: 5p29753.D\data.ms

(1) Pentachlorophenol (MC)

2.804min (-2.804) 0.00ng

response 0

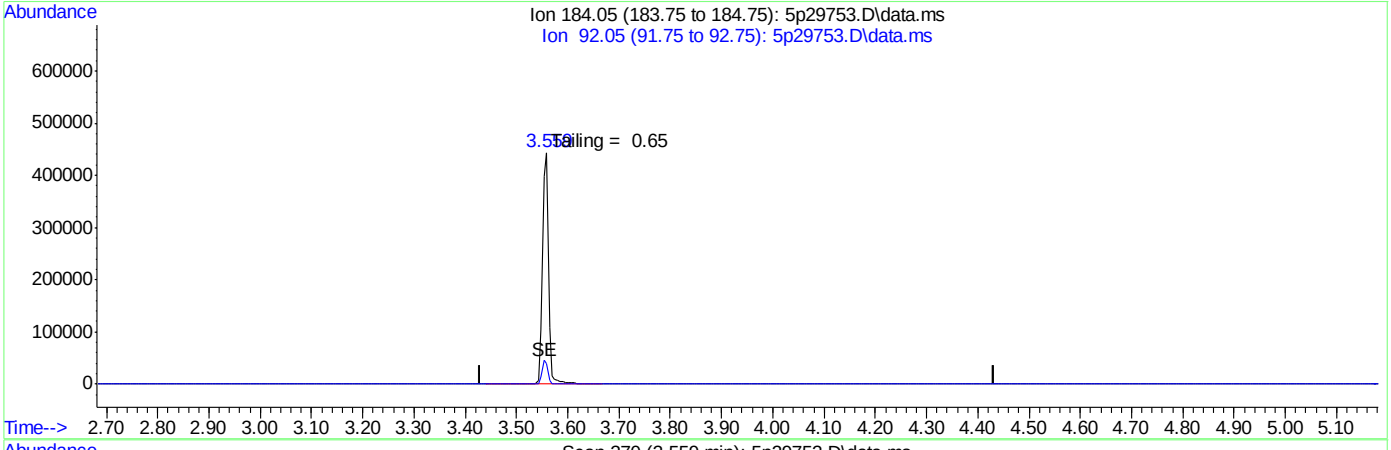
Ion	Exp%	Act%
265.80	100	0.00
263.70	64.70	0.00#
267.70	64.60	0.00#
0.00	0.00	0.00

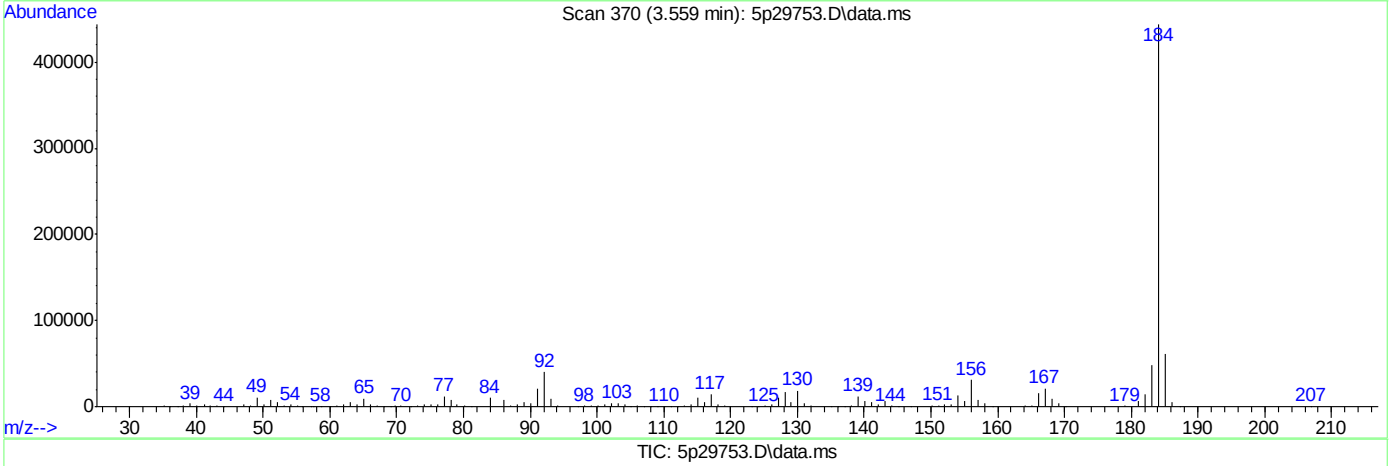
SGS ACCUTEST JC24133

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E5P1518\
Data File : 5p29753.D
Acq On : 18 Jul 2016 9:13 am
Operator : ashleyn
Sample : dftpp
Misc : op94707a,e5p1518
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 18 09:19:17 2016
Quant Method : C:\MSDCHEM\1\METHODS\DFTPP5P.M
Quant Title : Semi Volatile Extractables by GC/MS zb-5msi 30mx0.Tue Aug 25 09:34:01 2015
QLast Update : Tue Aug 25 09:34:01 2015
Response via : Initial Calibration





TIC: 5p29753.D\data.ms

(2) Benzidine (M)

3.931min (-3.931) 0.00ng

response 0

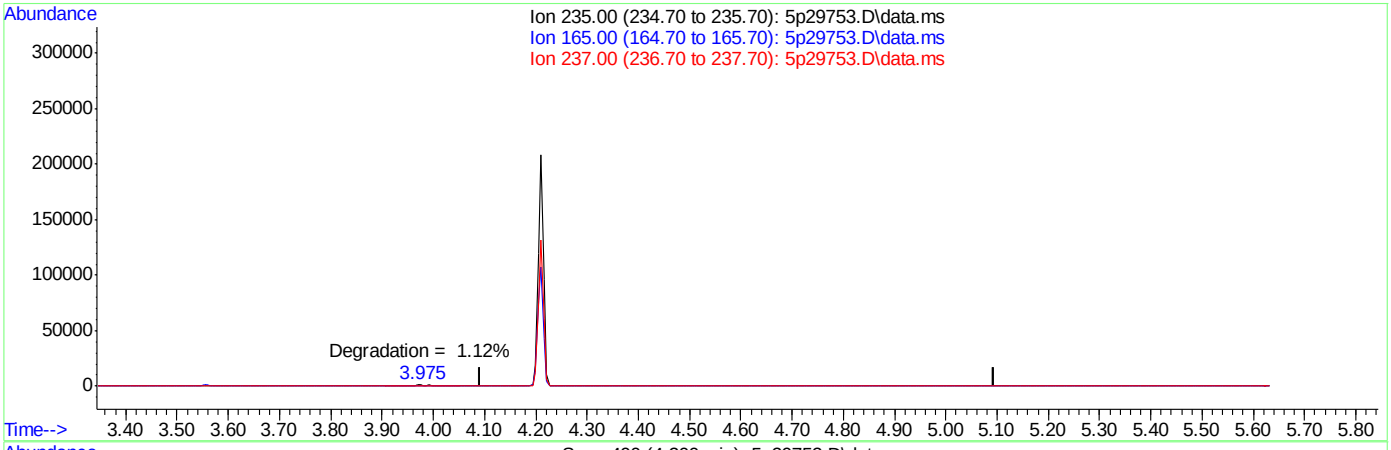
Ion	Exp%	Act%
184.05	100	0.00
92.05	11.60	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

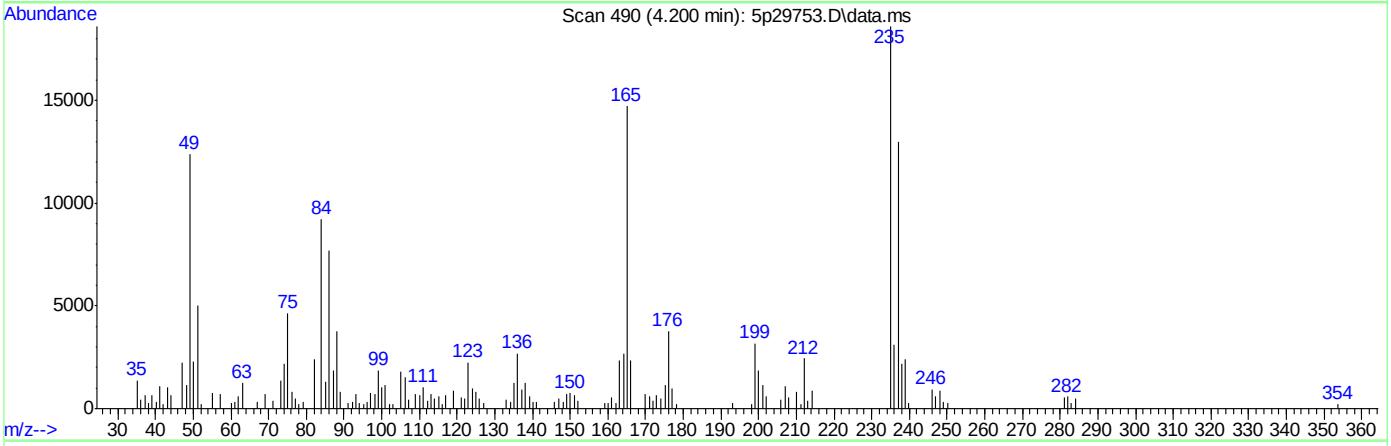
SGS ACCUTEST JC24133

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E5P1518\
Data File : 5p29753.D
Acq On : 18 Jul 2016 9:13 am
Operator : ashleyn
Sample : dftpp
Misc : op94707a,e5p1518
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 18 09:19:17 2016
Quant Method : C:\MSDCHEM\1\METHODS\DFTPP5P.M
Quant Title : Semi Volatile Extractables by GC/MS zb-5msi 30mx0.Tue Aug 25 09:34:01 2015
QLast Update : Tue Aug 25 09:34:01 2015
Response via : Initial Calibration





TIC: 5p29753.D\data.ms

(3) PP-DDT (MC)

4.594min (-4.594) 0.00ppb

response 0

Ion	Exp%	Act%
235.00	100	0.00
165.00	58.00	0.00#
237.00	62.20	0.00#
0.00	0.00	0.00

SGS ACCUTEST JC24133

Manual Integrations APPROVED (compounds with "m" flag)
Nina Pandya
06/23/16 13:16

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3E3699\
Data File : 3E84387.D
Acq On : 22 Jun 2016 10:40 am
Operator : ashleyn
Sample : ic3699-2
Misc : op94630a,e3e3699
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 22 13:03:15 2016
Quant Method : C:\msdchem\1\METHODS\M3E3699.M
Quant Title : Semi Volatile GC/MS,zb-5msplus 30m x .25mm x .25MWed Jun 22 12:58:14 2016
QLast Update : Wed Jun 22 12:58:14 2016
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.111	152	100451	40.00	ppm	0.00
24) Naphthalene-d8	6.282	136	389107	40.00	ppm	0.00
47) Acenaphthene-d10	8.448	164	220794	40.00	ppm	0.00
69) Phenanthrene-d10	10.673	188	372215	40.00	ppm	0.00
83) Chrysene-d12	14.904	240	374734	40.00	ppm	-0.01
92) Perylene-d12	17.076	264	358687	40.00	ppm	0.00
102) 1,4-Dichlorobenzene-d4a	5.111	152	100451	40.00	ppm	0.00
104) Acenaphthene-d10a	8.448	164	220794	40.00	ppm	0.00
106) Phenanthrene-d10a	10.673	188	372215	40.00	ppm	0.00
110) Chrysene-d12a	14.904	240	374734	40.00	ppm	-0.01
112) Naphthalene-d8a	6.282	136	389107	40.00	ppm	0.00
114) Chrysene-d12b	14.904	240	374734	40.00	ppm	-0.01

System Monitoring Compounds						
5) 2-Fluorophenol	4.105	112	6223	1.96	ppm	0.02
Spiked Amount 50.000			Recovery = 3.92%			
8) Phenol-d5	4.817	99	7998	2.10	ppm	-0.04
Spiked Amount 50.000			Recovery = 4.20%			
25) Nitrobenzene-d5	5.581	82	6006	2.02	ppm	0.00
Spiked Amount 50.000			Recovery = 4.04%			
51) 2-Fluorobiphenyl	7.528	172	15410	2.06	ppm	0.00
Spiked Amount 50.000			Recovery = 4.12%			
73) 2,4,6-Tribromophenol	9.604	330	2359	1.98	ppm	0.02
Spiked Amount 50.000			Recovery = 3.96%			
85) Terphenyl-d14	13.241	244	15847	1.97	ppm	-0.05
Spiked Amount 50.000			Recovery = 3.94%			
108) o-Terphenyl	0.000	230	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
109) 1-Chlorooctadecane	0.000	57	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			

Target Compounds							Qvalue
2) 1,4-Dioxane	2.699	88	3044	2.37	ppm		74
3) Pyridine	3.036	79	6842	2.04	ppm		79
4) N-Nitrosodimethylamine	2.977	74	4270	2.24	ppm	#	48
6) Indene	5.330	116	12855	2.11	ppm		92
7) Cumene	4.496	105	16173	2.01	ppm		97
9) Phenol	4.827	94	9417	2.13	ppm	#	62
10) Aniline	4.849	93	9875	1.95	ppm		64
11) bis(2-Chloroethyl)ether	4.886	93	6437	2.02	ppm		91
12) 2-Chlorophenol	4.950	128	7288	1.97	ppm		85
13) Decane	4.972	43	6533	2.13	ppm		87
14) 1,3-Dichlorobenzene	5.068	146	8803	2.11	ppm		95
15) 1,4-Dichlorobenzene	5.127	146	8648	1.94	ppm		96
16) Benzyl alcohol	5.218	108	4332	1.91	ppm		92
17) 1,2-Dichlorobenzene	5.255	146	8095	2.02	ppm		94
18) Acetophenone	5.442	105	9375	2.02	ppm		95
19) 2-Methylphenol	5.309	108	5857	1.88	ppm		100
20) 2,2'-oxybis(1-Chloropr...	5.325	121	2517	1.98	ppm	#	48
21) 3&4-Methylphenol	5.437	108	6635	2.00	ppm		99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3E3699\
Data File : 3E84387.D
Acq On : 22 Jun 2016 10:40 am
Operator : ashleyn
Sample : ic3699-2
Misc : op94630a,e3e3699
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 22 13:03:15 2016
Quant Method : C:\msdchem\1\METHODS\M3E3699.M
Quant Title : Semi Volatile GC/MS,zb-5msplus 30m x .25mm x .25MWed Jun 22 12:58:14 2016
QLast Update : Wed Jun 22 12:58:14 2016
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
22) n-Nitroso-di-n-propyla...	5.437	70	4250	2.16	ppm		78
23) Hexachloroethane	5.549	201	2752	2.15	ppm		94
26) Nitrobenzene	5.598	77	6397	2.04	ppm		81
27) Quinoline	6.662	129	13923	2.01	ppm		88
28) Isophorone	5.811	82	10782	1.91	ppm		77
29) 2-Nitrophenol	5.892	139	3749	1.92	ppm		94
30) 2,4-Dimethylphenol	5.924	107	5834	1.98	ppm		78
31) Benzoic acid	5.972	105	2190	1.33	ppm	#	56
32) bis(2-Chloroethoxy)met...	6.004	93	6770	1.84	ppm		98
33) 2,4-Dichlorophenol	6.132	162	5951	2.06	ppm		94
34) 2,6-Dichlorophenol	6.362	162	5937	2.02	ppm		83
35) 1,3,5-Trichlorobenzene	5.908	180	6262	1.81	ppm		89
36) 1,2,4-Trichlorobenzene	6.218	180	6314	2.00	ppm		96
37) 1,2,3-Trichlorobenzene	6.459	180	6289	2.02	ppm		98
38) Naphthalene	6.304	128	21571	1.99	ppm		97
39) 4-Chloroaniline	6.346	127	8023	1.92	ppm		76
40) 2,3-Dichloroaniline	7.421	161	7210	2.12	ppm		89
41) Caprolactam	6.699	55	2845	1.99	ppm		81
42) Hexachlorobutadiene	6.432	225	3144	2.00	ppm		91
43) 4-Chloro-3-methylphenol	6.881	107	5364	2.08	ppm		85
44) 2-Methylnaphthalene	7.079	141	12306	1.98	ppm		89
45) 1-Methylnaphthalene	7.197	141	12608	1.96	ppm		90
46) Dimethylnaphthalene	7.871	156	12532	2.04	ppm		88
48) Hexachlorocyclopentadiene	7.277	237	5574	3.28	ppm		84
49) 2,4,6-Trichlorophenol	7.427	196	3964	1.90	ppm		92
50) 2,4,5-Trichlorophenol	7.475	196	4083	1.91	ppm		98
52) 2-Chloronaphthalene	7.689	162	12773	2.08	ppm		90
53) Biphenyl	7.662	154	17432	1.96	ppm		94
54) 2-Nitroaniline	7.817	65	2794	1.88	ppm	#	32
55) Dimethylphthalate	8.069	163	14077	2.05	ppm		98
56) Acenaphthylene	8.250	152	21893	2.04	ppm		77
57) 2,6-Dinitrotoluene	8.143	165	2637	1.75	ppm	#	60
58) 3-Nitroaniline	8.379	138	3210	1.84	ppm		80
59) Acenaphthene	8.496	153	13915	1.97	ppm		88
60) 2,4-Dinitrophenol	8.529	184	1073	2.00	ppm	#	55
61) 4-Nitrophenol	8.641	109	1131	1.86	ppm	#	32
62) Dibenzofuran	8.743	168	18179	2.00	ppm		79
63) 2,4-Dinitrotoluene	8.721	165	3361	1.85	ppm	#	51
64) 2,3,4,6-Tetrachlorophenol	8.930	232	2830	1.84	ppm		82
65) Diethylphthalate	9.090	149	13866	2.06	ppm		96
66) Fluorene	9.240	166	15198	2.01	ppm		87
67) 4-Chlorophenyl-phenyle...	9.251	204	6780	1.84	ppm		85
68) 4-Nitroaniline	9.267	138	3522	1.98	ppm		79
70) 4,6-Dinitro-2-methylph...	9.326	198	1002	1.12	ppm	#	56
71) n-Nitrosodiphenylamine	9.427	169	10293	2.04	ppm		84
72) 1,2-Diphenylhydrazine	9.486	77	11985	1.91	ppm		79
74) 4-Bromophenyl-phenylether	9.989	248	4046	2.02	ppm		77
75) Hexachlorobenzene	10.090	284	4862	2.00	ppm		86
76) Pentachlorophenol	10.401	266	2011	2.09	ppm		80
77) Phenanthrene	10.711	178	21286	2.02	ppm		96

SGS ACCUTEST JC24133

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3E3699\
Data File : 3E84387.D
Acq On : 22 Jun 2016 10:40 am
Operator : ashleyn
Sample : ic3699-2
Misc : op94630a,e3e3699
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 22 13:03:15 2016
Quant Method : C:\msdchem\1\METHODS\M3E3699.M
Quant Title : Semi Volatile GC/MS,zb-5msplus 30m x .25mm x .25MWed Jun 22 12:58:14 2016
QLast Update : Wed Jun 22 12:58:14 2016
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
78) Anthracene	10.786	178	21626	2.04 ppm	97
79) Carbazole	11.048	167	19600	2.01 ppm	90
80) Di-n-butylphthalate	11.658	149	23146	1.91 ppm	97
81) Fluoranthene	12.594	202	20706	1.85 ppm	95
82) Octadecane	10.582	57	7399	1.82 ppm	82
84) Pyrene	12.952	202	23162	2.01 ppm	93
86) Butylbenzylphthalate	14.059	149	10452	1.98 ppm	82
88) Benzo[a]anthracene	14.888	228	23307	2.02 ppm	94
89) 3,3'-Dichlorobenzidine	14.867	252	8595	1.92 ppm	96
90) Chrysene	14.942	228	20941	2.07 ppm	95
91) bis(2-Ethylhexyl)phtha...	15.016	149	14924	2.06 ppm	95
93) Di-n-octylphthalate	16.006	149	25648	1.79 ppm	91
94) Benzo[b]fluoranthene	16.503	252	22478	1.76 ppm	96
95) Benzo[k]fluoranthene	16.541	252	22312	2.06 ppm	95
96) Benzo[a]pyrene	16.979	252	20121	1.94 ppm	94
97) Indeno[1,2,3-cd]pyrene	18.905	276	20613m	1.83 ppm	
98) Dibenz(a,h)acridine	18.472	279	18736	1.85 ppm	95
99) Dibenz[a,h]anthracene	18.948	278	20768	1.93 ppm	98
100) 7,12-Dimethylbenz(a)an...	16.503	256	8903	1.63 ppm	86
101) Benzo[g,h,i]perylene	19.440	276	19802	1.94 ppm	88

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

7.6.1

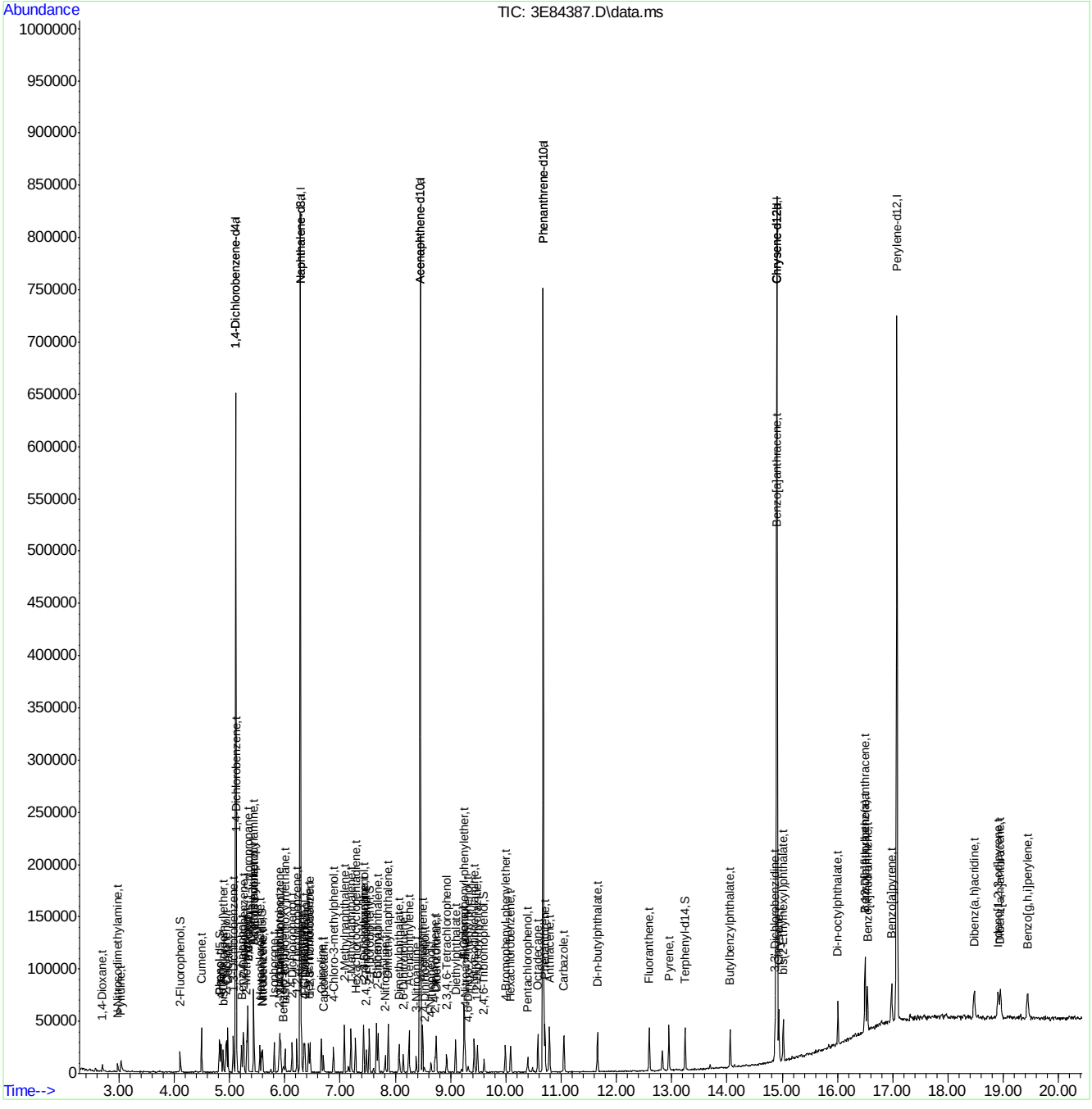
7

SGS ACCUTEST JC24133

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3E3699\
Data File : 3E84387.D
Acq On : 22 Jun 2016 10:40 am
Operator : ashleyn
Sample : ic3699-2
Misc : op94630a,e3e3699
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 22 13:03:15 2016
Quant Method : C:\msdchem\1\METHODS\M3E3699.M
Quant Title : Semi Volatile GC/MS,zb-5msplus 30m x .25mm x .25MWed Jun 22 12:58:14 2016
QLast Update : Wed Jun 22 12:58:14 2016
Response via : Initial Calibration



Manual Integration Approval Summary

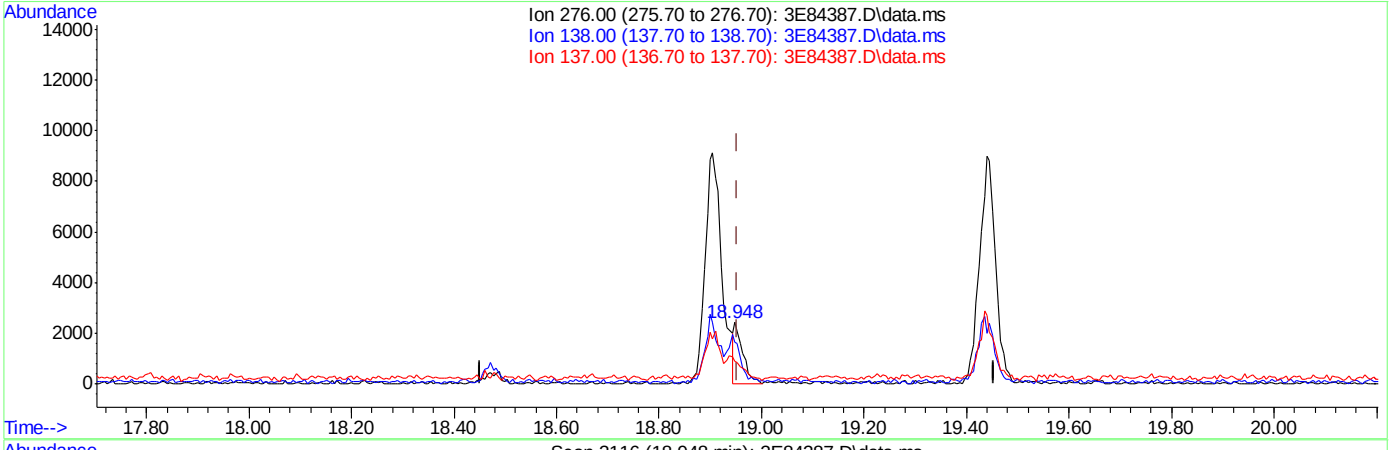
Sample Number:	E3E3699-IC3699	**Method:**	SW846 8270D
Lab FileID:	3E84387.D	**Analyst approved:**	06/23/16 13:01 Ashley Noble
Injection Time:	06/22/16 10:40	**Supervisor approved:**	06/23/16 13:16 Nina Pandya

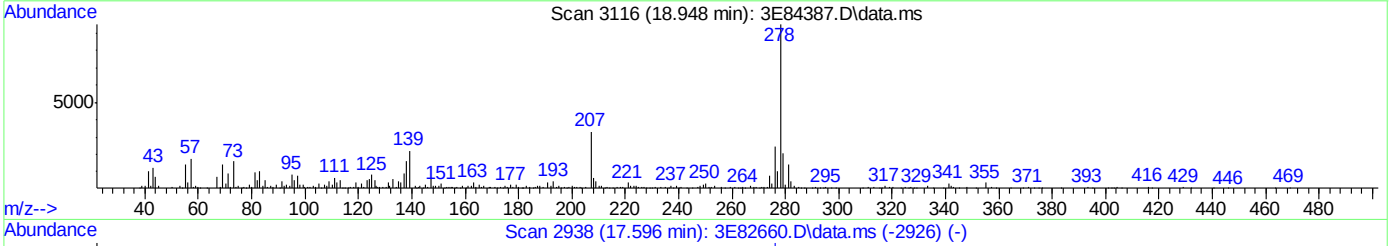
Parameter	CAS	Sig#	R.T. (min.)	Reason
Indeno(1,2,3-cd)pyrene	193-39-5		18.90	Split peak

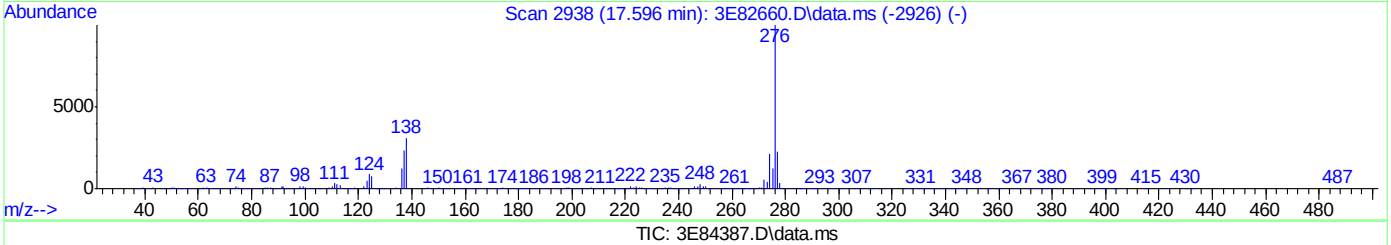
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E3E3699\
Data File : 3E84387.D
Acq On : 22 Jun 2016 10:40 am
Operator : ashleyn
Sample : ic3699-2
Misc : op94630a,e3e3699
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 22 12:58:18 2016
Quant Method : C:\msdchem\1\METHODS\M3E3699.M
Quant Title : Semi Volatile GC/MS,zb-5msplus 30m x .25mm x .25MWed Jun 22 12:58:14 2016
QLast Update : Wed Jun 22 12:58:14 2016
Response via : Initial Calibration







TIC: 3E84387.D\data.ms

(97) Indeno[1,2,3-cd]pyrene (t)

18.948min (-0.005) 0.27ppm

response 3010

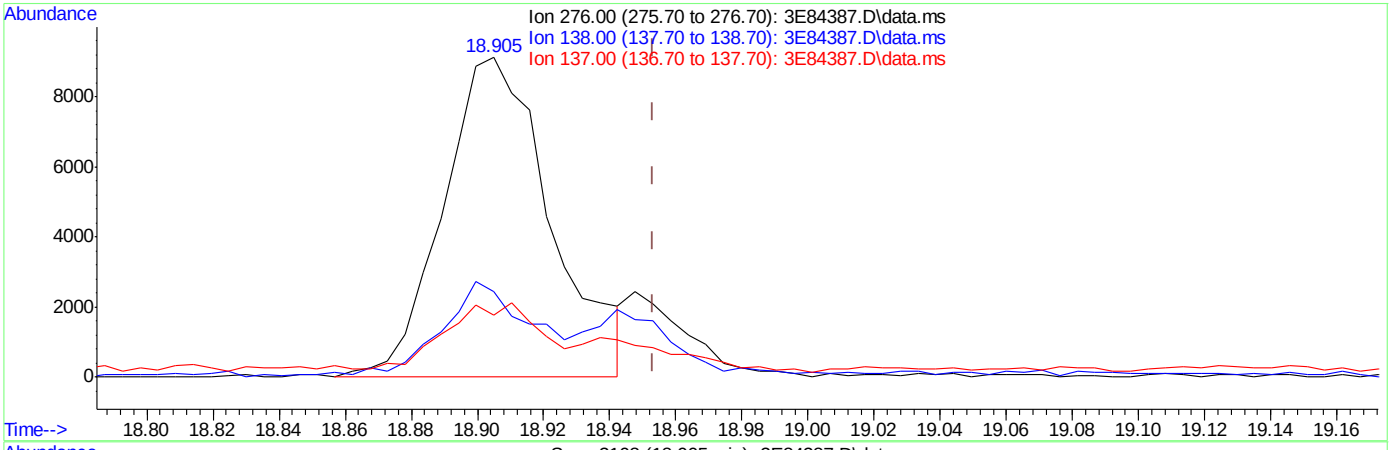
Ion	Exp%	Act%
276.00	100	100
138.00	27.80	41.32
137.00	20.40	21.41
0.00	0.00	0.00

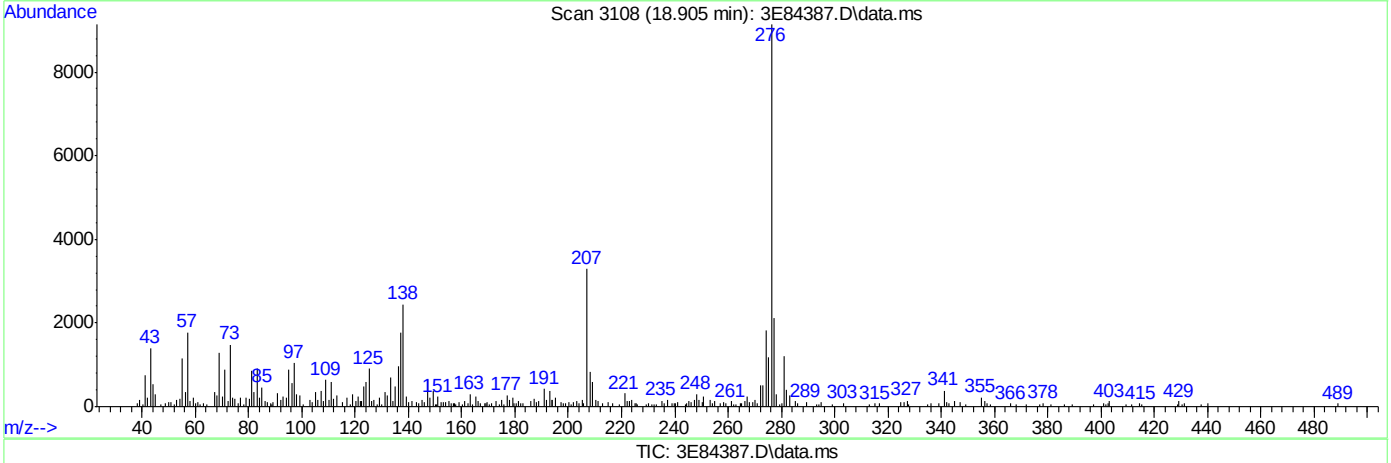
SGS ACCUTEST JC24133

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E3E3699\
Data File : 3E84387.D
Acq On : 22 Jun 2016 10:40 am
Operator : ashleyn
Sample : ic3699-2
Misc : op94630a,e3e3699
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 22 12:58:18 2016
Quant Method : C:\msdchem\1\METHODS\M3E3699.M
Quant Title : Semi Volatile GC/MS,zb-5msplus 30m x .25mm x .25MWed Jun 22 12:58:14 2016
QLast Update : Wed Jun 22 12:58:14 2016
Response via : Initial Calibration





TIC: 3E84387.D\data.ms

(97) Indeno[1,2,3-cd]pyrene (t)

18.905min (-0.048) 1.83ppm m

response 20613

Ion	Exp%	Act%
276.00	100	100
138.00	27.80	26.76
137.00	20.40	19.47
0.00	0.00	0.00

SGS ACCUTEST JC24133

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3E3699\
Data File : 3E84388.D
Acq On : 22 Jun 2016 11:07 am
Operator : ashleyn
Sample : ic3699-1
Misc : op94630a,e3e3699
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 22 12:57:24 2016
Quant Method : C:\msdchem\1\METHODS\M3E3699.M
Quant Title : Semi Volatile GC/MS,zb-5msplus 30m x .25mm x .25MWed Jun 22 12:56:57 2016
QLast Update : Wed Jun 22 12:56:57 2016
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.111	152	104708	40.00	ppm	0.00
24) Naphthalene-d8	6.282	136	410678	40.00	ppm	0.00
47) Acenaphthene-d10	8.449	164	231828	40.00	ppm	0.00
69) Phenanthrene-d10	10.674	188	391290	40.00	ppm	0.00
83) Chrysene-d12	14.904	240	380885	40.00	ppm	-0.01
92) Perylene-d12	17.076	264	372707	40.00	ppm	0.00
102) 1,4-Dichlorobenzene-d4a	5.111	152	104708	40.00	ppm	0.00
104) Acenaphthene-d10a	8.449	164	231828	40.00	ppm	0.00
106) Phenanthrene-d10a	10.674	188	391290	40.00	ppm	0.00
110) Chrysene-d12a	14.904	240	380885	40.00	ppm	-0.01
112) Naphthalene-d8a	6.282	136	410678	40.00	ppm	0.00
114) Chrysene-d12b	14.904	240	380885	40.00	ppm	-0.01

System Monitoring Compounds						
5) 2-Fluorophenol	4.105	112	3397	1.05	ppm	0.02
Spiked Amount 50.000			Recovery = 2.10%			
8) Phenol-d5	4.817	99	4055	1.04	ppm	-0.04
Spiked Amount 50.000			Recovery = 2.08%			
25) Nitrobenzene-d5	5.582	82	3069	0.96	ppm	0.00
Spiked Amount 50.000			Recovery = 1.92%			
51) 2-Fluorobiphenyl	7.529	172	8098	1.06	ppm	0.00
Spiked Amount 50.000			Recovery = 2.12%			
73) 2,4,6-Tribromophenol	9.604	330	1166	0.87	ppm	0.02
Spiked Amount 50.000			Recovery = 1.74%			
85) Terphenyl-d14	13.241	244	8297	1.03	ppm	-0.05
Spiked Amount 50.000			Recovery = 2.06%			
108) o-Terphenyl	0.000	230	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
109) 1-Chlorooctadecane	0.000	57	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			

Target Compounds							Qvalue
2) 1,4-Dioxane	2.699	88	1372	1.05	ppm		90
3) Pyridine	3.041	79	3605	1.07	ppm		82
4) N-Nitrosodimethylamine	2.977	74	2047	1.07	ppm	#	53
6) Indene	5.330	116	6408	1.02	ppm		91
7) Cumene	4.496	105	8754	1.09	ppm		88
9) Phenol	4.827	94	4549	0.98	ppm	#	57
10) Aniline	4.849	93	6151	1.40	ppm		64
11) bis(2-Chloroethyl)ether	4.886	93	3565	1.16	ppm		82
12) 2-Chlorophenol	4.950	128	3802	0.98	ppm		86
13) Decane	4.972	43	3369	1.11	ppm		78
14) 1,3-Dichlorobenzene	5.068	146	4451	1.05	ppm		91
15) 1,4-Dichlorobenzene	5.127	146	4970	1.15	ppm		93
16) Benzyl alcohol	5.218	108	2492	1.11	ppm		99
17) 1,2-Dichlorobenzene	5.255	146	4321	1.07	ppm		97
18) Acetophenone	5.443	105	4822	1.00	ppm		93
19) 2-Methylphenol	5.309	108	3362	1.07	ppm		83
20) 2,2'-oxybis(1-Chloropr...	5.325	121	1373	1.08	ppm	#	52
21) 3&4-Methylphenol	5.437	108	3462	1.00	ppm		94

SGS ACCUTEST JC24133

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3E3699\
Data File : 3E84388.D
Acq On : 22 Jun 2016 11:07 am
Operator : ashleyn
Sample : ic3699-1
Misc : op94630a,e3e3699
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 22 12:57:24 2016
Quant Method : C:\msdchem\1\METHODS\M3E3699.M
Quant Title : Semi Volatile GC/MS,zb-5msplus 30m x .25mm x .25MWed Jun 22 12:56:57 2016
QLast Update : Wed Jun 22 12:56:57 2016
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
22) n-Nitroso-di-n-propyla...	5.437	70	2006	0.96	ppm		82
23) Hexachloroethane	5.550	201	1405	1.11	ppm		95
26) Nitrobenzene	5.598	77	3248	0.96	ppm		78
27) Quinoline	6.662	129	7490	1.05	ppm		80
28) Isophorone	5.812	82	6019	1.02	ppm		78
29) 2-Nitrophenol	5.892	139	1946	0.89	ppm		83
30) 2,4-Dimethylphenol	5.924	107	2932	0.89	ppm		81
31) Benzoic acid	5.972	105	959	0.38	ppm		97
32) bis(2-Chloroethoxy)met...	6.004	93	3936	1.03	ppm		92
33) 2,4-Dichlorophenol	6.133	162	2924	0.93	ppm		94
34) 2,6-Dichlorophenol	6.363	162	3197	1.06	ppm		88
35) 1,3,5-Trichlorobenzene	5.908	180	3516	0.93	ppm		87
36) 1,2,4-Trichlorobenzene	6.218	180	3307	0.98	ppm		91
37) 1,2,3-Trichlorobenzene	6.453	180	3412	1.08	ppm		99
38) Naphthalene	6.304	128	11822	1.06	ppm		99
39) 4-Chloroaniline	6.346	127	4458	1.02	ppm		80
40) 2,3-Dichloroaniline	7.422	161	3612	1.01	ppm		87
41) Caprolactam	6.699	55	1613	1.14	ppm		80
42) Hexachlorobutadiene	6.432	225	1709	1.07	ppm		94
43) 4-Chloro-3-methylphenol	6.881	107	2685	0.97	ppm		83
44) 2-Methylnaphthalene	7.074	141	6646	1.03	ppm		84
45) 1-Methylnaphthalene	7.197	141	6934	1.04	ppm		86
46) Dimethylnaphthalene	7.871	156	6930	1.15	ppm		95
48) Hexachlorocyclopentadiene	7.277	237	2652	1.18	ppm		96
49) 2,4,6-Trichlorophenol	7.427	196	2133	0.95	ppm		87
50) 2,4,5-Trichlorophenol	7.475	196	2233	0.98	ppm		96
52) 2-Chloronaphthalene	7.689	162	6391	0.98	ppm		91
53) Biphenyl	7.662	154	9414	1.01	ppm		95
54) 2-Nitroaniline	7.817	65	1414	0.83	ppm	#	50
55) Dimethylphthalate	8.063	163	7278	1.02	ppm		98
56) Acenaphthylene	8.245	152	11358	1.01	ppm		79
57) 2,6-Dinitrotoluene	8.144	165	1487	0.88	ppm		77
58) 3-Nitroaniline	8.379	138	1661	0.83	ppm	#	54
59) Acenaphthene	8.491	153	7573	1.04	ppm		84
60) 2,4-Dinitrophenol	8.534	184	370	0.39	ppm	#	39
61) 4-Nitrophenol	8.641	109	531	0.71	ppm	#	73
62) Dibenzofuran	8.743	168	9843	1.06	ppm		79
63) 2,4-Dinitrotoluene	8.716	165	1539	0.68	ppm	#	52
64) 2,3,4,6-Tetrachlorophenol	8.930	232	1466	0.83	ppm		84
65) Diethylphthalate	9.090	149	7153	1.03	ppm		94
66) Fluorene	9.240	166	8039	1.02	ppm		79
67) 4-Chlorophenyl-phenyle...	9.251	204	4094	1.12	ppm	#	70
68) 4-Nitroaniline	9.261	138	1845	0.98	ppm		68
70) 4,6-Dinitro-2-methylph...	9.320	198	487	0.35	ppm	#	51
71) n-Nitrosodiphenylamine	9.427	169	5330	1.01	ppm		86
72) 1,2-Diphenylhydrazine	9.486	77	6160	0.88	ppm		77
74) 4-Bromophenyl-phenylether	9.989	248	2035	0.94	ppm		89
75) Hexachlorobenzene	10.085	284	2570	1.02	ppm		90
76) Pentachlorophenol	10.395	266	756	0.46	ppm		81
77) Phenanthrene	10.706	178	11448	1.06	ppm		97

SGS ACCUTEST JC24133

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3E3699\
Data File : 3E84388.D
Acq On : 22 Jun 2016 11:07 am
Operator : ashleyn
Sample : ic3699-1
Misc : op94630a,e3e3699
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 22 12:57:24 2016
Quant Method : C:\msdchem\1\METHODS\M3E3699.M
Quant Title : Semi Volatile GC/MS,zb-5msplus 30m x .25mm x .25MWed Jun 22 12:56:57 2016
QLast Update : Wed Jun 22 12:56:57 2016
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
78) Anthracene	10.786	178	11531	1.07 ppm	99
79) Carbazole	11.048	167	10145	0.98 ppm	94
80) Di-n-butylphthalate	11.658	149	12135	0.91 ppm	96
81) Fluoranthene	12.594	202	11237	0.91 ppm	96
82) Octadecane	10.577	57	3921	0.84 ppm	86
84) Pyrene	12.952	202	11869	1.03 ppm	95
86) Butylbenzylphthalate	14.059	149	5263	0.96 ppm	93
88) Benzo[a]anthracene	14.888	228	12550	1.15 ppm	95
89) 3,3'-Dichlorobenzidine	14.872	252	4287	0.89 ppm	98
90) Chrysene	14.936	228	11057	1.17 ppm	95
91) bis(2-Ethylhexyl)phtha...	15.017	149	7775	1.11 ppm	97
93) Di-n-octylphthalate	16.006	149	13419	0.82 ppm	88
94) Benzo[b]fluoranthene	16.498	252	12316	0.87 ppm	96
95) Benzo[k]fluoranthene	16.541	252	11923	1.13 ppm	95
96) Benzo[a]pyrene	16.974	252	11117	1.07 ppm	95
97) Indeno[1,2,3-cd]pyrene	18.900	276	11571	0.98 ppm	96
98) Dibenz(a,h)acridine	18.472	279	10277	0.96 ppm	98
99) Dibenz[a,h]anthracene	18.943	278	11521	1.06 ppm	97
100) 7,12-Dimethylbenz(a)an...	16.498	256	4652	0.69 ppm	93
101) Benzo[g,h,i]perylene	19.440	276	10791	1.03 ppm	84

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

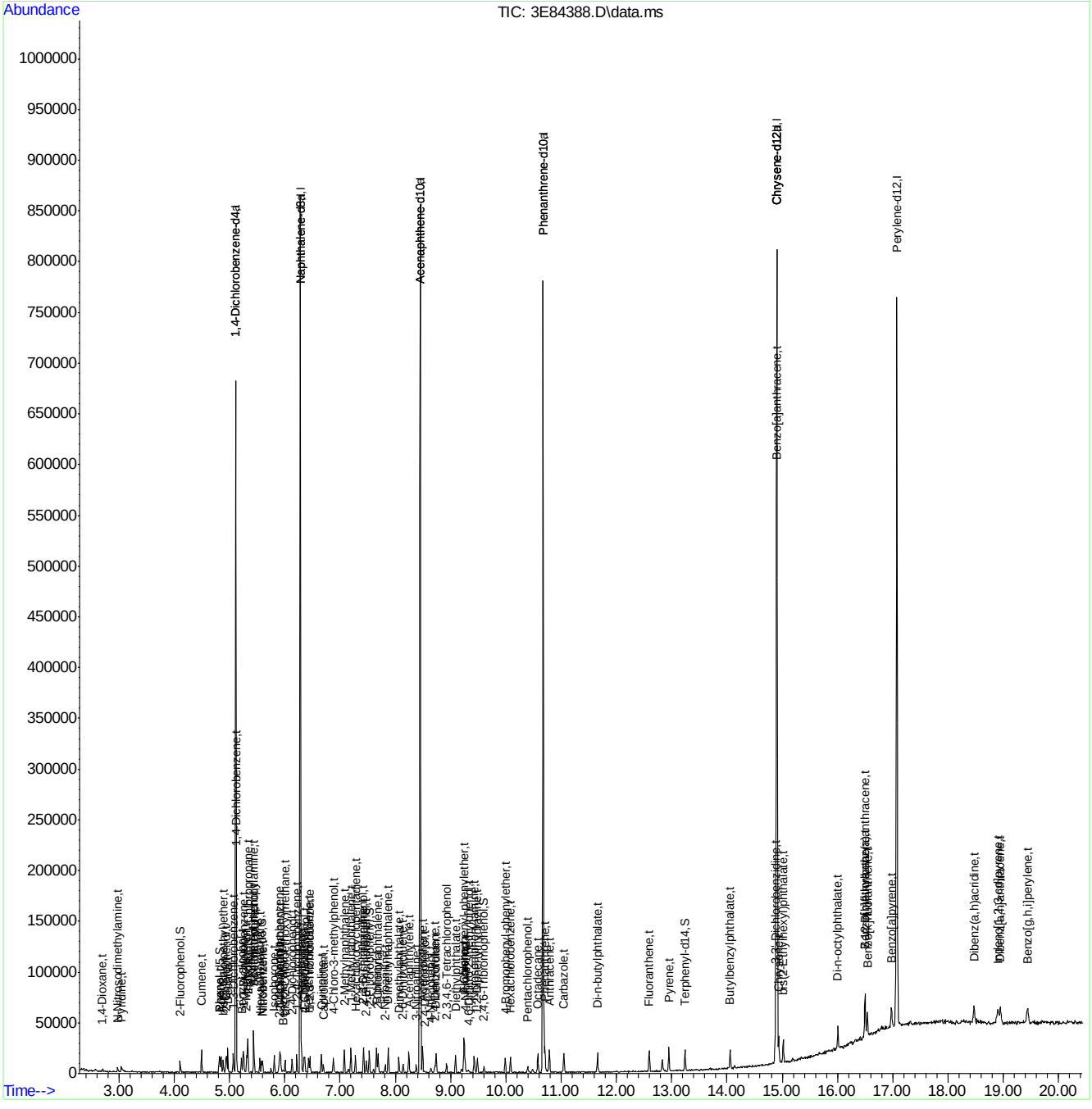
7.6.2

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3E3699\
Data File : 3E84388.D
Acq On : 22 Jun 2016 11:07 am
Operator : ashleyn
Sample : ic3699-1
Misc : op94630a,e3e3699
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 22 12:57:24 2016
Quant Method : C:\msdchem\1\METHODS\M3E3699.M
Quant Title : Semi Volatile GC/MS,zb-5msplus 30m x .25mm x .25MWed Jun 22 12:56:57 2016
QLast Update : Wed Jun 22 12:56:57 2016
Response via : Initial Calibration



M3E3699.M Wed Jun 22 12:57:33 2016 MS3E Page: 4

Manual Integrations APPROVED (compounds with "m" flag)
Nina Pandya
06/23/16 13:16

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3E3699\
Data File : 3E84389.D
Acq On : 22 Jun 2016 11:34 am
Operator : ashleyn
Sample : ic3699-100
Misc : op94630a,e3e3699
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 22 12:19:59 2016
Quant Method : C:\msdchem\1\METHODS\M3E3699.M
Quant Title : Semi Volatile GC/MS,zb-5msplus 30m x .25mm x .25MWed Jun 22 12:18:16 2016
QLast Update : Wed Jun 22 12:18:16 2016
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.116	152	96457	40.00	ppm	0.00
24) Naphthalene-d8	6.288	136	344524	40.00	ppm	0.00
47) Acenaphthene-d10	8.454	164	178192	40.00	ppm	0.00
69) Phenanthrene-d10	10.679	188	276799	40.00	ppm	0.00
83) Chrysene-d12	14.915	240	289467	40.00	ppm	0.00
92) Perylene-d12	17.081	264	228765	40.00	ppm	0.00
102) 1,4-Dichlorobenzene-d4a	5.116	152	96457	40.00	ppm	0.00
104) Acenaphthene-d10a	8.454	164	178192	40.00	ppm	0.00
106) Phenanthrene-d10a	10.679	188	276799	40.00	ppm	0.00
110) Chrysene-d12a	14.915	240	289467	40.00	ppm	0.00
112) Naphthalene-d8a	6.288	136	344524	40.00	ppm	0.00
114) Chrysene-d12b	14.915	240	289467	40.00	ppm	0.00

System Monitoring Compounds						
5) 2-Fluorophenol	4.111	112	296699	100.00	ppm	0.02
Spiked Amount 50.000			Recovery	=	200.00%	
8) Phenol-d5	4.827	99	359015	100.00	ppm	-0.03
Spiked Amount 50.000			Recovery	=	200.00%	
25) Nitrobenzene-d5	5.587	82	269418	100.00	ppm	0.00
Spiked Amount 50.000			Recovery	=	200.00%	
51) 2-Fluorobiphenyl	7.539	172	585050	100.00	ppm	0.01
Spiked Amount 50.000			Recovery	=	200.00%	
73) 2,4,6-Tribromophenol	9.614	330	95098	100.00	ppm	0.03
Spiked Amount 50.000			Recovery	=	200.00%	
85) Terphenyl-d14	13.252	244	612978	100.00	ppm	-0.04
Spiked Amount 50.000			Recovery	=	200.00%	
108) o-Terphenyl	0.000	230	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
109) 1-Chlorooctadecane	0.000	57	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	

Target Compounds							Qvalue
2) 1,4-Dioxane	2.688	88	120105	100.00	ppm		86
3) Pyridine	3.004	79	310981	100.00	ppm		83
4) N-Nitrosodimethylamine	2.966	74	176869	100.00	ppm	#	62
6) Indene	5.330	116	581521	100.00	ppm		96
7) Cumene	4.496	105	738287	100.00	ppm		96
9) Phenol	4.838	94	428288	100.00	ppm	#	64
10) Aniline	4.849	93	405597	100.00	ppm		67
11) bis(2-Chloroethyl)ether	4.897	93	282974	100.00	ppm		87
12) 2-Chlorophenol	4.956	128	358953	100.00	ppm		90
13) Decane	4.977	43	279359	100.00	ppm		83
14) 1,3-Dichlorobenzene	5.073	146	392343	100.00	ppm		93
15) 1,4-Dichlorobenzene	5.127	146	397267	100.00	ppm		98
16) Benzyl alcohol	5.229	108	206038	100.00	ppm	#	70
17) 1,2-Dichlorobenzene	5.261	146	370947	100.00	ppm		99
18) Acetophenone	5.453	105	446176	100.00	ppm		97
19) 2-Methylphenol	5.319	108	289513	100.00	ppm		97
20) 2,2'-oxybis(1-Chloropr...	5.330	121	117135	100.00	ppm	#	43
21) 3&4-Methylphenol	5.448	108	319674	100.00	ppm		93

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3E3699\
Data File : 3E84389.D
Acq On : 22 Jun 2016 11:34 am
Operator : ashleyn
Sample : ic3699-100
Misc : op94630a,e3e3699
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 22 12:19:59 2016
Quant Method : C:\msdchem\1\METHODS\M3E3699.M
Quant Title : Semi Volatile GC/MS,zb-5msplus 30m x .25mm x .25MWed Jun 22 12:18:16 2016
QLast Update : Wed Jun 22 12:18:16 2016
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
22) n-Nitroso-di-n-propyla...	5.453	70	193103	100.00	ppm		77
23) Hexachloroethane	5.555	201	116263	100.00	ppm		96
26) Nitrobenzene	5.608	77	282716	100.00	ppm		72
27) Quinoline	6.683	129	600097	100.00	ppm		83
28) Isophorone	5.822	82	493862	100.00	ppm		80
29) 2-Nitrophenol	5.902	139	182799	100.00	ppm		100
30) 2,4-Dimethylphenol	5.935	107	276729	100.00	ppm		76
31) Benzoic acid	6.068	105	211695m	109.69	ppm		
32) bis(2-Chloroethoxy)met...	6.015	93	320921	100.00	ppm		99
33) 2,4-Dichlorophenol	6.143	162	265162	100.00	ppm		93
34) 2,6-Dichlorophenol	6.373	162	253251	100.00	ppm		92
35) 1,3,5-Trichlorobenzene	5.913	180	317767	100.00	ppm		94
36) 1,2,4-Trichlorobenzene	6.223	180	282414	100.00	ppm		94
37) 1,2,3-Trichlorobenzene	6.464	180	264407	100.00	ppm		96
38) Naphthalene	6.309	128	931447	100.00	ppm		99
39) 4-Chloroaniline	6.357	127	367395	100.00	ppm		79
40) 2,3-Dichloroaniline	7.432	161	298670	100.00	ppm		88
41) Caprolactam	6.769	55	118233m	119.89	ppm		
42) Hexachlorobutadiene	6.437	225	134361	100.00	ppm		97
43) 4-Chloro-3-methylphenol	6.903	107	232227	100.00	ppm		87
44) 2-Methylnaphthalene	7.085	141	542744	100.00	ppm		90
45) 1-Methylnaphthalene	7.208	141	559402	100.00	ppm		91
46) Dimethylnaphthalene	7.881	156	505659	100.00	ppm		91
48) Hexachlorocyclopentadiene	7.282	237	344672	200.00	ppm		94
49) 2,4,6-Trichlorophenol	7.438	196	173131	100.00	ppm		100
50) 2,4,5-Trichlorophenol	7.491	196	174275	100.00	ppm		97
52) 2-Chloronaphthalene	7.700	162	501861	100.00	ppm		89
53) Biphenyl	7.673	154	713781	100.00	ppm		97
54) 2-Nitroaniline	7.833	65	130614	100.00	ppm	#	60
55) Dimethylphthalate	8.079	163	549657	100.00	ppm		99
56) Acenaphthylene	8.256	152	860310	100.00	ppm		82
57) 2,6-Dinitrotoluene	8.160	165	129298	100.00	ppm	#	68
58) 3-Nitroaniline	8.400	138	154064	100.00	ppm	#	70
59) Acenaphthene	8.502	153	557539	100.00	ppm		95
60) 2,4-Dinitrophenol	8.550	184	144784	200.00	ppm	#	46
61) 4-Nitrophenol	8.668	109	57332	100.00	ppm	#	58
62) Dibenzofuran	8.753	168	712059	100.00	ppm		82
63) 2,4-Dinitrotoluene	8.737	165	175178	100.00	ppm	#	59
64) 2,3,4,6-Tetrachlorophenol	8.941	232	135755	100.00	ppm		80
65) Diethylphthalate	9.106	149	535852	100.00	ppm		96
66) Fluorene	9.256	166	603647	100.00	ppm		96
67) 4-Chlorophenyl-phenyle...	9.256	204	280387	100.00	ppm		80
68) 4-Nitroaniline	9.304	138	145004	100.00	ppm		81
70) 4,6-Dinitro-2-methylph...	9.347	198	98567	100.00	ppm		71
71) n-Nitrosodiphenylamine	9.443	169	373935	100.00	ppm		91
72) 1,2-Diphenylhydrazine	9.497	77	497244	100.00	ppm		87
74) 4-Bromophenyl-phenylether	10.000	248	153911	100.00	ppm		84
75) Hexachlorobenzene	10.101	284	178942	100.00	ppm		84
76) Pentachlorophenol	10.411	266	233007	200.00	ppm		98
77) Phenanthrene	10.722	178	761219	100.00	ppm		98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3E3699\
Data File : 3E84389.D
Acq On : 22 Jun 2016 11:34 am
Operator : ashleyn
Sample : ic3699-100
Misc : op94630a,e3e3699
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 22 12:19:59 2016
Quant Method : C:\msdchem\1\METHODS\M3E3699.M
Quant Title : Semi Volatile GC/MS,zb-5msplus 30m x .25mm x .25MWed Jun 22 12:18:16 2016
QLast Update : Wed Jun 22 12:18:16 2016
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
78) Anthracene	10.802	178	761461	100.00 ppm	96
79) Carbazole	11.064	167	732610	100.00 ppm	90
80) Di-n-butylphthalate	11.668	149	945172	100.00 ppm	97
81) Fluoranthene	12.610	202	869116	100.00 ppm	97
82) Octadecane	10.588	57	328605	100.00 ppm	85
84) Pyrene	12.968	202	874997	100.00 ppm	94
86) Butylbenzylphthalate	14.070	149	416826	100.00 ppm	85
87) Butyl stearate	14.070	56	13431	100.00 ppm	66
88) Benzo[a]anthracene	14.894	228	832216	100.00 ppm	95
89) 3,3'-Dichlorobenzidine	14.888	252	365852	100.00 ppm	98
90) Chrysene	14.963	228	720747	100.00 ppm	96
91) bis(2-Ethylhexyl)phtha...	15.027	149	530907	100.00 ppm	97
93) Di-n-octylphthalate	16.017	149	999650	100.00 ppm	91
94) Benzo[b]fluoranthene	16.530	252	869520	100.00 ppm	95
95) Benzo[k]fluoranthene	16.573	252	646954	100.00 ppm	96
96) Benzo[a]pyrene	17.006	252	640299	100.00 ppm	96
97) Indeno[1,2,3-cd]pyrene	18.953	276	725468	100.00 ppm	91
98) Dibenz(a,h)acridine	18.509	279	660183	100.00 ppm	96
99) Dibenz[a,h]anthracene	18.996	278	668007	100.00 ppm	92
100) 7,12-Dimethylbenz(a)an...	16.530	256	411096	100.00 ppm	92
101) Benzo[g,h,i]perylene	19.504	276	640270	100.00 ppm	83

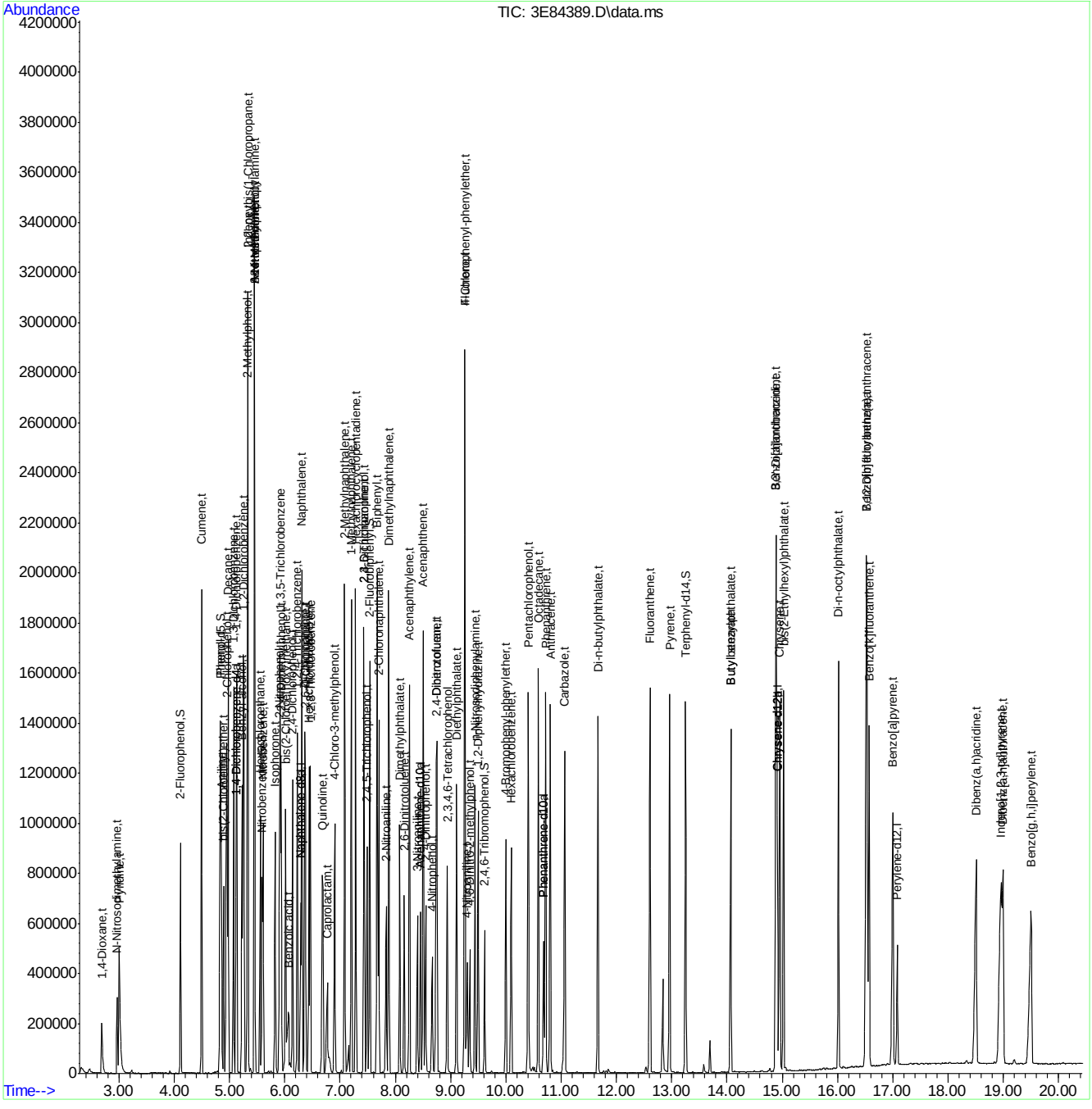
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC24133

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3E3699\
Data File : 3E84389.D
Acq On : 22 Jun 2016 11:34 am
Operator : ashleyn
Sample : ic3699-100
Misc : op94630a,e3e3699
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 22 12:19:59 2016
Quant Method : C:\msdchem\1\METHODS\M3E3699.M
Quant Title : Semi Volatile GC/MS,zb-5msplus 30m x .25mm x .25MWed Jun 22 12:18:16 2016
QLast Update : Wed Jun 22 12:18:16 2016
Response via : Initial Calibration



SGS ACCUTEST JC24133

Manual Integration Approval Summary

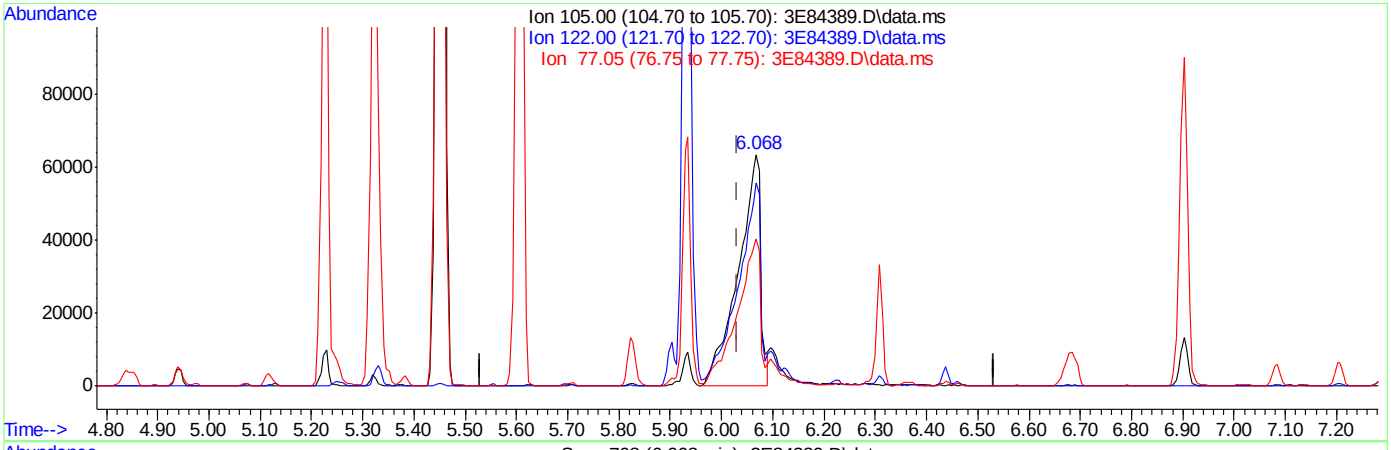
Sample Number:	E3E3699-IC3699	**Method:**	SW846 8270D
Lab FileID:	3E84389.D	**Analyst approved:**	06/23/16 13:01 Ashley Noble
Injection Time:	06/22/16 11:34	**Supervisor approved:**	06/23/16 13:16 Nina Pandya

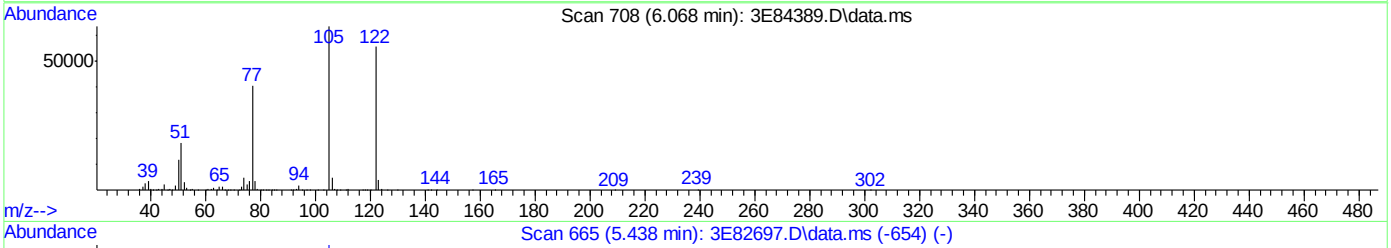
Parameter	CAS	Sig#	R.T. (min.)	Reason
Benzoic acid	65-85-0		6.07	Split peak
Caprolactam	105-60-2		6.77	Split peak

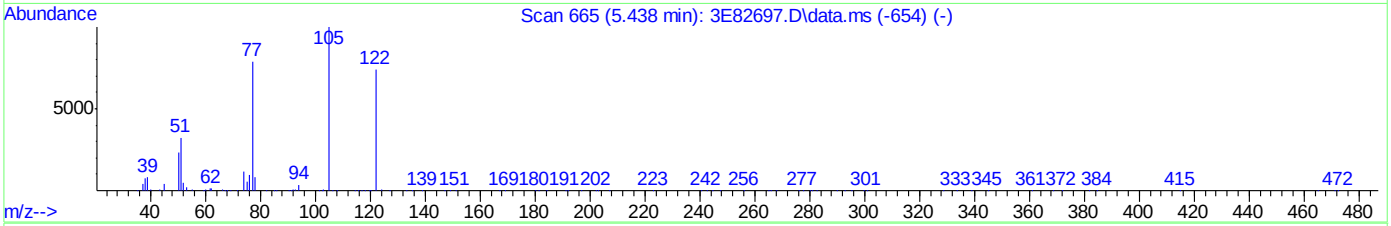
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E3E3699\
Data File : 3E84389.D
Acq On : 22 Jun 2016 11:34 am
Operator : ashleyn
Sample : ic3699-100
Misc : op94630a,e3e3699
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 22 12:18:25 2016
Quant Method : C:\msdchem\1\METHODS\M3E3699.M
Quant Title : Semi Volatile GC/MS,zb-5msplus 30m x .25mm x .25MWed Jun 22 12:18:16 2016
QLast Update : Wed Jun 22 12:18:16 2016
Response via : Initial Calibration







TIC: 3E84389.D\data.ms

(31) Benzoic acid (t)

6.068min (+0.037) 100.00ppm

response 192998

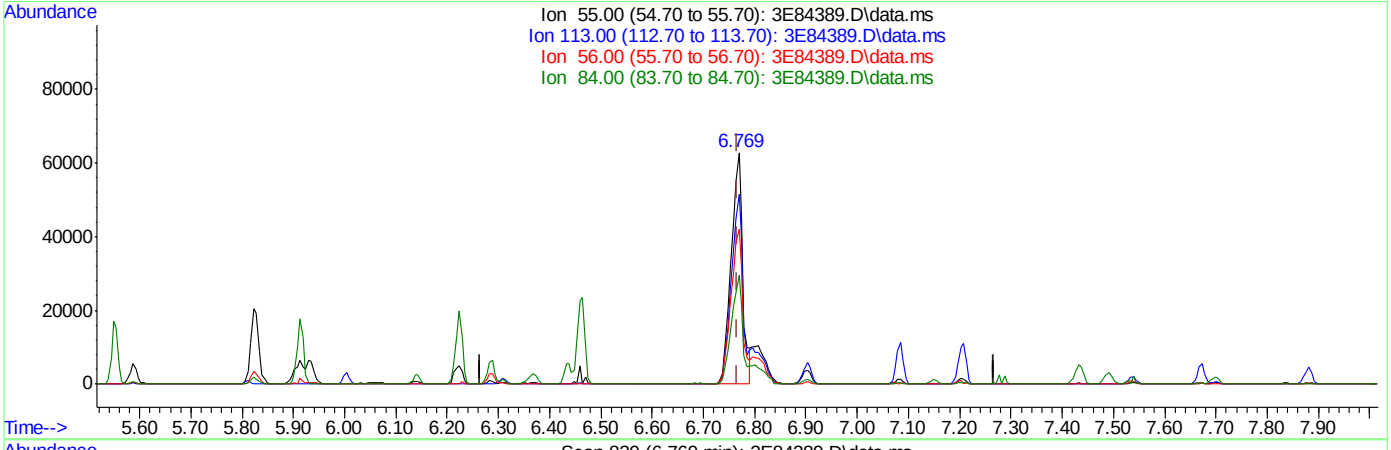
Ion	Exp%	Act%
105.00	100	100
122.00	69.20	84.26
77.05	80.50	63.01
0.00	0.00	0.00

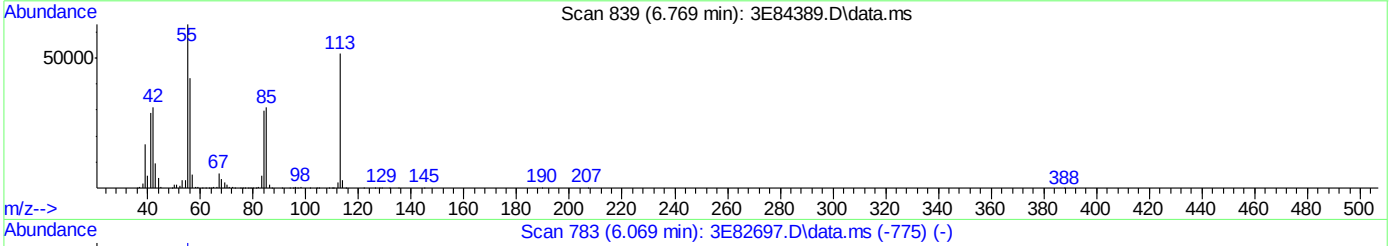
SGS ACCUTEST JC24133

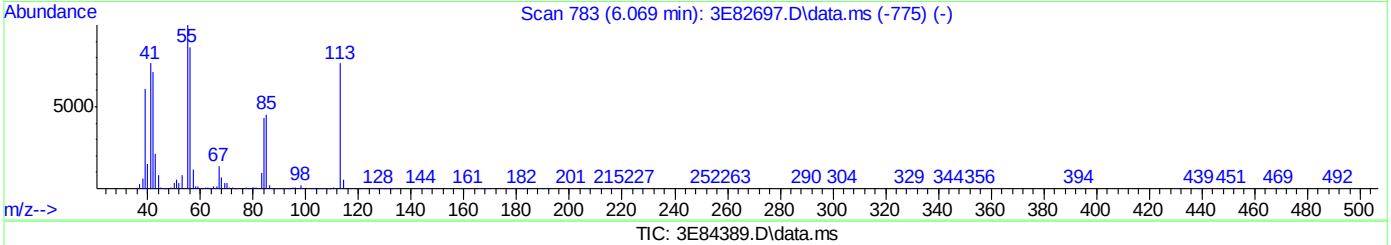
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E3E3699\
Data File : 3E84389.D
Acq On : 22 Jun 2016 11:34 am
Operator : ashleyn
Sample : ic3699-100
Misc : op94630a,e3e3699
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 22 12:18:25 2016
Quant Method : C:\msdchem\1\METHODS\M3E3699.M
Quant Title : Semi Volatile GC/MS,zb-5msplus 30m x .25mm x .25MWed Jun 22 12:18:16 2016
QLast Update : Wed Jun 22 12:18:16 2016
Response via : Initial Calibration







TIC: 3E84389.D\data.ms

(41) Caprolactam (t)

6.769min (+0.002) 100.00ppm

response 98622

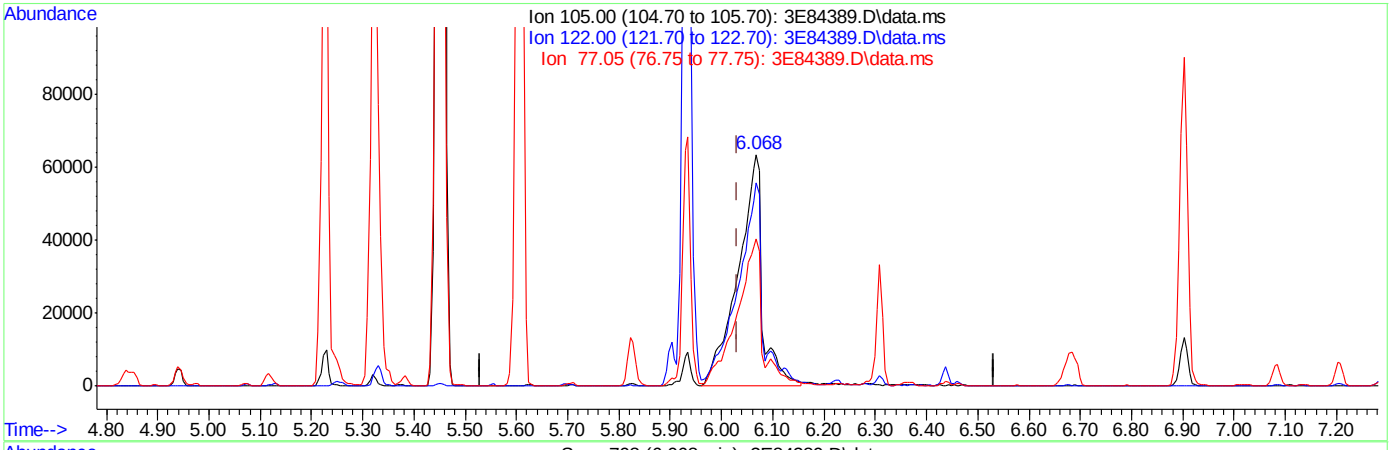
Ion	Exp%	Act%
55.00	100	100
113.00	66.30	81.03
56.00	86.80	67.20
84.00	42.70	46.96

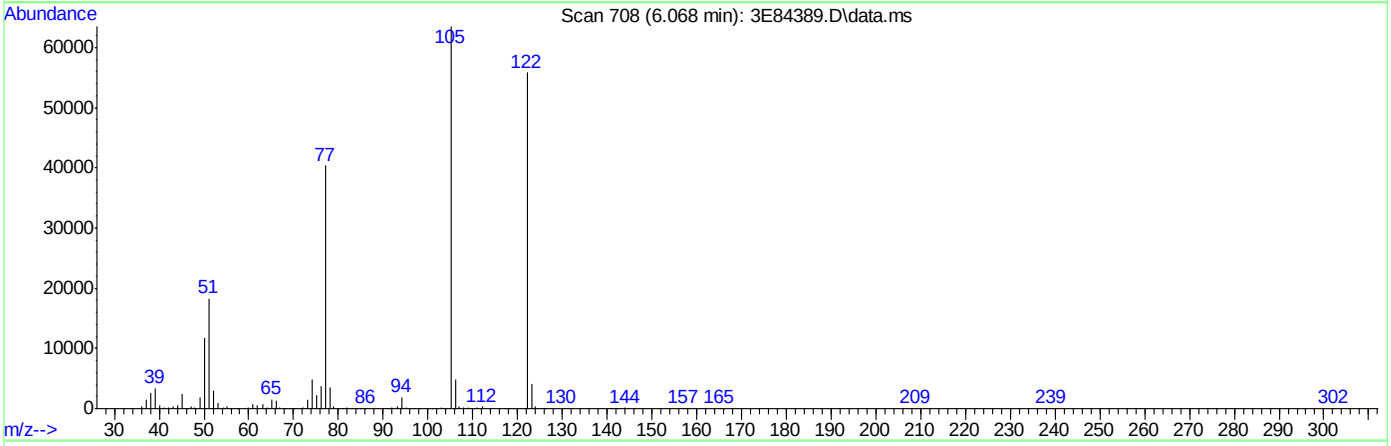
SGS ACCUTEST JC24133

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E3E3699\
Data File : 3E84389.D
Acq On : 22 Jun 2016 11:34 am
Operator : ashleyn
Sample : ic3699-100
Misc : op94630a,e3e3699
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 22 12:19:59 2016
Quant Method : C:\msdchem\1\METHODS\M3E3699.M
Quant Title : Semi Volatile GC/MS,zb-5msplus 30m x .25mm x .25MWed Jun 22 12:18:16 2016
QLast Update : Wed Jun 22 12:18:16 2016
Response via : Initial Calibration





TIC: 3E84389.D\data.ms

(31) Benzoic acid (t)

6.068min (+0.037) 109.69ppm m

response 211695

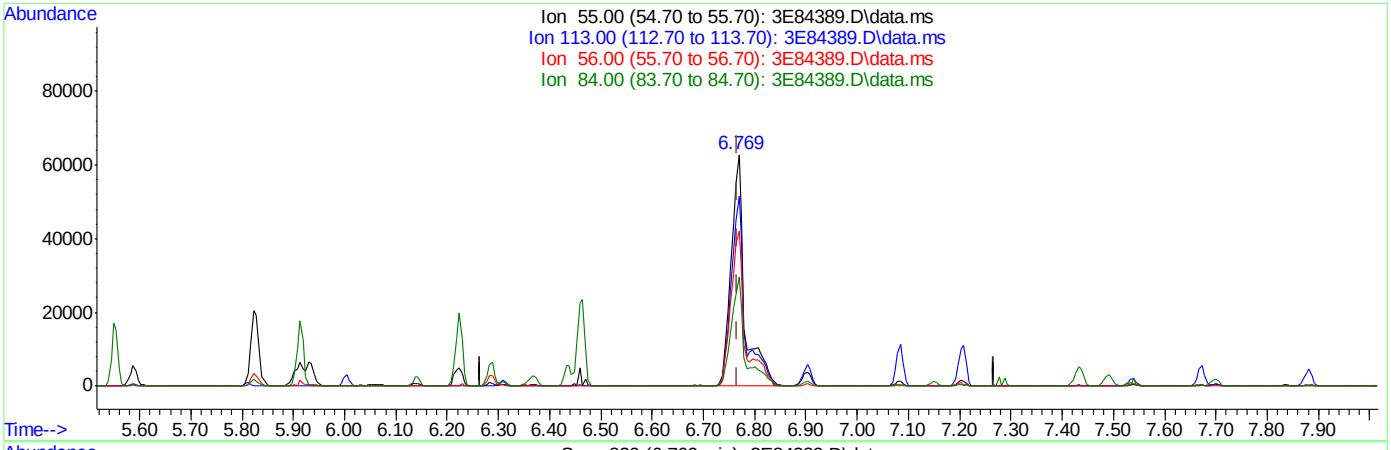
Ion	Exp%	Act%
105.00	100	100
122.00	69.20	87.93
77.05	80.50	63.59
0.00	0.00	0.00

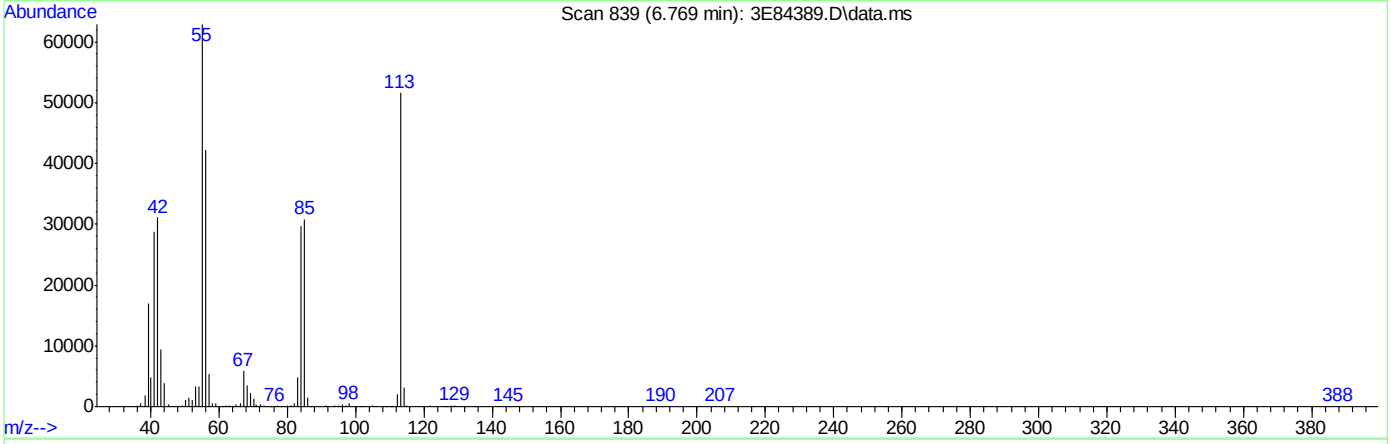
SGS ACCUTEST JC24133

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E3E3699\
Data File : 3E84389.D
Acq On : 22 Jun 2016 11:34 am
Operator : ashleyn
Sample : ic3699-100
Misc : op94630a,e3e3699
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 22 12:19:59 2016
Quant Method : C:\msdchem\1\METHODS\M3E3699.M
Quant Title : Semi Volatile GC/MS,zb-5msplus 30m x .25mm x .25MWed Jun 22 12:18:16 2016
QLast Update : Wed Jun 22 12:18:16 2016
Response via : Initial Calibration





TIC: 3E84389.D\data.ms

(41) Caprolactam (t)

6.769min (+0.002) 119.89ppm m

response 118233

Ion	Exp%	Act%
55.00	100	100
113.00	66.30	82.07
56.00	86.80	67.19
84.00	42.70	47.33

SGS ACCUTEST JC24133

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3E3699\
Data File : 3E84390.D
Acq On : 22 Jun 2016 12:02 pm
Operator : ashleyn
Sample : ic3699-80
Misc : op94630a,e3e3699
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 22 13:06:10 2016
Quant Method : C:\msdchem\1\METHODS\M3E3699.M
Quant Title : Semi Volatile GC/MS,zb-5msplus 30m x .25mm x .25MWed Jun 22 13:05:42 2016
QLast Update : Wed Jun 22 13:05:42 2016
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.116	152	90073	40.00	ppm	0.00
24) Naphthalene-d8	6.288	136	334842	40.00	ppm	0.00
47) Acenaphthene-d10	8.454	164	174771	40.00	ppm	0.00
69) Phenanthrene-d10	10.679	188	273625	40.00	ppm	0.00
83) Chrysene-d12	14.915	240	286385	40.00	ppm	0.00
92) Perylene-d12	17.081	264	238339	40.00	ppm	0.00
102) 1,4-Dichlorobenzene-d4a	5.116	152	90073	40.00	ppm	0.00
104) Acenaphthene-d10a	8.454	164	174771	40.00	ppm	0.00
106) Phenanthrene-d10a	10.679	188	273625	40.00	ppm	0.00
110) Chrysene-d12a	14.915	240	286385	40.00	ppm	0.00
112) Naphthalene-d8a	6.288	136	334842	40.00	ppm	0.00
114) Chrysene-d12b	14.915	240	286385	40.00	ppm	0.00

System Monitoring Compounds						
5) 2-Fluorophenol	4.111	112	232253	82.14	ppm	0.02
Spiked Amount 50.000			Recovery = 164.28%			
8) Phenol-d5	4.822	99	281738	81.06	ppm	-0.03
Spiked Amount 50.000			Recovery = 162.12%			
25) Nitrobenzene-d5	5.587	82	214469	83.51	ppm	0.00
Spiked Amount 50.000			Recovery = 167.02%			
51) 2-Fluorobiphenyl	7.539	172	455844	76.22	ppm	0.01
Spiked Amount 50.000			Recovery = 152.44%			
73) 2,4,6-Tribromophenol	9.615	330	75484	86.35	ppm	0.03
Spiked Amount 50.000			Recovery = 172.70%			
85) Terphenyl-d14	13.246	244	488132	79.77	ppm	-0.05
Spiked Amount 50.000			Recovery = 159.54%			
108) o-Terphenyl	0.000	230	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
109) 1-Chlorooctadecane	0.000	57	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			

Target Compounds							Qvalue
2) 1,4-Dioxane	2.688	88	95438	78.09	ppm		88
3) Pyridine	3.004	79	252276	83.42	ppm		84
4) N-Nitrosodimethylamine	2.961	74	142091	80.02	ppm	#	65
6) Indene	5.330	116	460514	82.70	ppm		95
7) Cumene	4.496	105	592096	81.95	ppm		96
9) Phenol	4.833	94	333844	82.53	ppm	#	62
10) Aniline	4.849	93	319743	71.02	ppm		67
11) bis(2-Chloroethyl)ether	4.892	93	224652	78.41	ppm		89
12) 2-Chlorophenol	4.951	128	275631	83.61	ppm		94
13) Decane	4.972	43	226865	80.68	ppm		90
14) 1,3-Dichlorobenzene	5.074	146	301760	79.14	ppm		99
15) 1,4-Dichlorobenzene	5.127	146	309885	78.37	ppm		98
16) Benzyl alcohol	5.223	108	159764	79.75	ppm		95
17) 1,2-Dichlorobenzene	5.261	146	283681	78.72	ppm		99
18) Acetophenone	5.448	105	348028	83.41	ppm		93
19) 2-Methylphenol	5.320	108	225777	82.38	ppm		93
20) 2,2'-oxybis(1-Chloropr...	5.330	121	91332	80.51	ppm	#	44
21) 3&4-Methylphenol	5.448	108	249644	83.79	ppm		93

SGS ACCUTEST JC24133

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3E3699\
Data File : 3E84390.D
Acq On : 22 Jun 2016 12:02 pm
Operator : ashleyn
Sample : ic3699-80
Misc : op94630a,e3e3699
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 22 13:06:10 2016
Quant Method : C:\msdchem\1\METHODS\M3E3699.M
Quant Title : Semi Volatile GC/MS,zb-5msplus 30m x .25mm x .25MWed Jun 22 13:05:42 2016
QLast Update : Wed Jun 22 13:05:42 2016
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
22) n-Nitroso-di-n-propyla...	5.448	70	155637	85.92	ppm		80
23) Hexachloroethane	5.555	201	90364	76.84	ppm		94
26) Nitrobenzene	5.603	77	226318	83.32	ppm		80
27) Quinoline	6.678	129	467183	78.17	ppm		85
28) Isophorone	5.822	82	389641	81.48	ppm		81
29) 2-Nitrophenol	5.903	139	143664	86.61	ppm		97
30) 2,4-Dimethylphenol	5.929	107	212671	84.06	ppm		76
31) Benzoic acid	6.058	105	166309	131.93	ppm		98
32) bis(2-Chloroethoxy)met...	6.015	93	251118	81.52	ppm		98
33) 2,4-Dichlorophenol	6.138	162	200638	80.02	ppm		94
34) 2,6-Dichlorophenol	6.368	162	193885	76.31	ppm		93
35) 1,3,5-Trichlorobenzene	5.913	180	236364	81.98	ppm		95
36) 1,2,4-Trichlorobenzene	6.223	180	214721	78.96	ppm		96
37) 1,2,3-Trichlorobenzene	6.459	180	198994	74.09	ppm		97
38) Naphthalene	6.309	128	737371	79.08	ppm		100
39) 4-Chloroaniline	6.357	127	286662	80.69	ppm		79
40) 2,3-Dichloroaniline	7.427	161	231483	77.59	ppm		88
41) Caprolactam	6.758	55	94446	76.82	ppm		86
42) Hexachlorobutadiene	6.437	225	103456	76.60	ppm		96
43) 4-Chloro-3-methylphenol	6.897	107	180229	80.05	ppm		87
44) 2-Methylnaphthalene	7.085	141	422216	79.22	ppm		91
45) 1-Methylnaphthalene	7.202	141	433100	78.67	ppm		92
46) Dimethylnaphthalene	7.882	156	408948	76.88	ppm		87
48) Hexachlorocyclopentadiene	7.283	237	257558	203.71	ppm		96
49) 2,4,6-Trichlorophenol	7.438	196	135229	83.22	ppm		97
50) 2,4,5-Trichlorophenol	7.491	196	133856	80.17	ppm		97
52) 2-Chloronaphthalene	7.700	162	389771	79.03	ppm		90
53) Biphenyl	7.668	154	557839	79.70	ppm		97
54) 2-Nitroaniline	7.833	65	102263	88.85	ppm	#	45
55) Dimethylphthalate	8.079	163	436592	79.63	ppm		99
56) Acenaphthylene	8.256	152	687879	80.41	ppm		81
57) 2,6-Dinitrotoluene	8.160	165	102691	89.74	ppm	#	65
58) 3-Nitroaniline	8.395	138	121679	90.50	ppm	#	72
59) Acenaphthene	8.502	153	435576	78.32	ppm		92
60) 2,4-Dinitrophenol	8.545	184	113941	321.92	ppm	#	42
61) 4-Nitrophenol	8.662	109	44864	95.44	ppm	#	63
62) Dibenzofuran	8.748	168	562471	78.12	ppm		82
63) 2,4-Dinitrotoluene	8.737	165	137953	98.34	ppm	#	57
64) 2,3,4,6-Tetrachlorophenol	8.935	232	107415	90.60	ppm		83
65) Diethylphthalate	9.106	149	424786	78.98	ppm		96
66) Fluorene	9.251	166	474710	79.14	ppm		99
67) 4-Chlorophenyl-phenyle...	9.256	204	216937	76.39	ppm		78
68) 4-Nitroaniline	9.299	138	118206	84.29	ppm		80
70) 4,6-Dinitro-2-methylph...	9.342	198	78527	139.96	ppm		73
71) n-Nitrosodiphenylamine	9.438	169	297890	79.74	ppm		93
72) 1,2-Diphenylhydrazine	9.497	77	404549	89.05	ppm		86
74) 4-Bromophenyl-phenylether	10.000	248	119179	80.68	ppm		86
75) Hexachlorobenzene	10.096	284	141128	79.09	ppm		90
76) Pentachlorophenol	10.406	266	181318	304.64	ppm		97
77) Phenanthrene	10.722	178	614395	78.92	ppm		97

SGS ACCUTEST JC24133

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3E3699\
Data File : 3E84390.D
Acq On : 22 Jun 2016 12:02 pm
Operator : ashleyn
Sample : ic3699-80
Misc : op94630a,e3e3699
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 22 13:06:10 2016
Quant Method : C:\msdchem\1\METHODS\M3E3699.M
Quant Title : Semi Volatile GC/MS,zb-5msplus 30m x .25mm x .25MWed Jun 22 13:05:42 2016
QLast Update : Wed Jun 22 13:05:42 2016
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
78) Anthracene	10.797	178	614506	78.32 ppm	96
79) Carbazole	11.064	167	590643	82.26 ppm	91
80) Di-n-butylphthalate	11.663	149	758103	86.35 ppm	97
81) Fluoranthene	12.604	202	689336	85.95 ppm	95
82) Octadecane	10.588	57	268020	92.32 ppm	85
84) Pyrene	12.963	202	709432	80.52 ppm	95
86) Butylbenzylphthalate	14.070	149	333564	82.87 ppm	84
88) Benzo[a]anthracene	14.894	228	664921	75.06 ppm	95
89) 3,3'-Dichlorobenzidine	14.883	252	291798	86.44 ppm	98
90) Chrysene	14.958	228	590549	75.56 ppm	97
91) bis(2-Ethylhexyl)phtha...	15.022	149	440343	78.63 ppm	94
93) Di-n-octylphthalate	16.017	149	806715	87.95 ppm	92
94) Benzo[b]fluoranthene	16.525	252	709723	87.25 ppm	95
95) Benzo[k]fluoranthene	16.568	252	559276	77.04 ppm	100
96) Benzo[a]pyrene	17.001	252	536890	78.70 ppm	97
97) Indeno[1,2,3-cd]pyrene	18.948	276	585080	80.49 ppm	92
98) Dibenz(a,h)acridine	18.504	279	530448	80.88 ppm	90
99) Dibenz[a,h]anthracene	18.985	278	554247	78.33 ppm	95
100) 7,12-Dimethylbenz(a)an...	16.525	256	332623	97.68 ppm	94
101) Benzo[g,h,i]perylene	19.493	276	539610	80.34 ppm	85

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

7.6.4

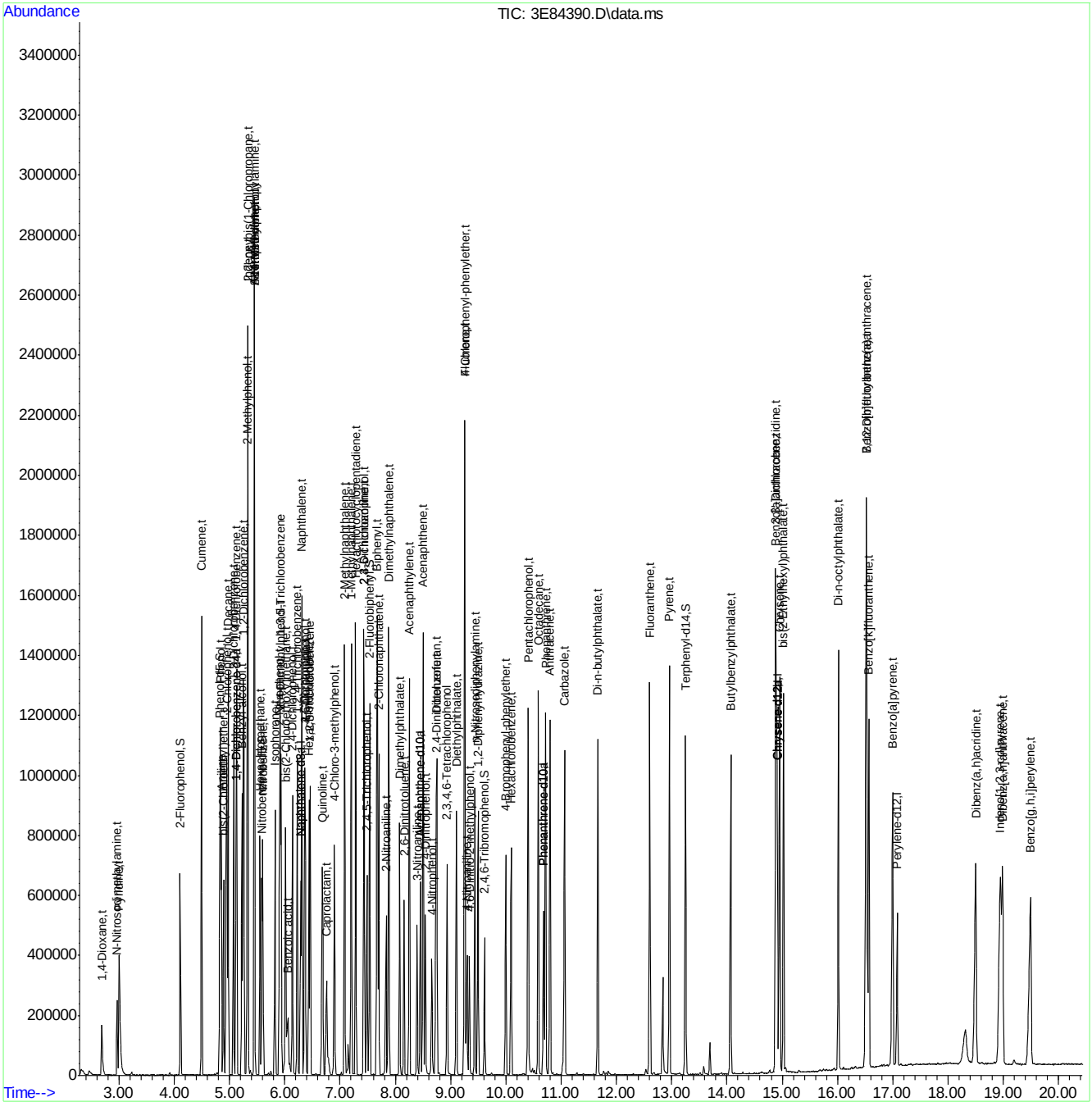
7

SGS ACCUTEST JC24133

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3E3699\
Data File : 3E84390.D
Acq On : 22 Jun 2016 12:02 pm
Operator : ashleyn
Sample : ic3699-80
Misc : op94630a,e3e3699
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 22 13:06:10 2016
Quant Method : C:\msdchem\1\METHODS\M3E3699.M
Quant Title : Semi Volatile GC/MS,zb-5msplus 30m x .25mm x .25MWed Jun 22 13:05:42 2016
QLast Update : Wed Jun 22 13:05:42 2016
Response via : Initial Calibration



SGS ACCUTEST JC24133

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3E3699\
Data File : 3E84391.D
Acq On : 22 Jun 2016 12:29 pm
Operator : ashleyn
Sample : ic3699-25
Misc : op94630a,e3e3699
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 22 13:07:51 2016
Quant Method : C:\msdchem\1\METHODS\M3E3699.M
Quant Title : Semi Volatile GC/MS,zb-5msplus 30m x .25mm x .25MWed Jun 22 13:06:29 2016
QLast Update : Wed Jun 22 13:06:29 2016
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.111	152	96817	40.00 ppm	0.00
24) Naphthalene-d8	6.282	136	365335	40.00 ppm	0.00
47) Acenaphthene-d10	8.454	164	204944	40.00 ppm	0.00
69) Phenanthrene-d10	10.673	188	339330	40.00 ppm	0.00
83) Chrysene-d12	14.904	240	344353	40.00 ppm	-0.01
92) Perylene-d12	17.076	264	313453	40.00 ppm	0.00
102) 1,4-Dichlorobenzene-d4a	5.111	152	96817	40.00 ppm	0.00
104) Acenaphthene-d10a	8.454	164	204944	40.00 ppm	0.00
106) Phenanthrene-d10a	10.673	188	339330	40.00 ppm	0.00
110) Chrysene-d12a	14.904	240	344353	40.00 ppm	-0.01
112) Naphthalene-d8a	6.282	136	365335	40.00 ppm	0.00
114) Chrysene-d12b	14.904	240	344353	40.00 ppm	-0.01

System Monitoring Compounds					
5) 2-Fluorophenol	4.105	112	73362	23.98 ppm	0.02
Spiked Amount 50.000			Recovery	= 47.96%	
8) Phenol-d5	4.817	99	88304	23.56 ppm	-0.04
Spiked Amount 50.000			Recovery	= 47.12%	
25) Nitrobenzene-d5	5.582	82	69608	24.57 ppm	0.00
Spiked Amount 50.000			Recovery	= 49.14%	
51) 2-Fluorobiphenyl	7.534	172	161509	23.30 ppm	0.00
Spiked Amount 50.000			Recovery	= 46.60%	
73) 2,4,6-Tribromophenol	9.609	330	27075	24.49 ppm	0.02
Spiked Amount 50.000			Recovery	= 48.98%	
85) Terphenyl-d14	13.241	244	174598	23.75 ppm	-0.05
Spiked Amount 50.000			Recovery	= 47.50%	
108) o-Terphenyl	0.000	230	0	0.00 ppm	
Spiked Amount 50.000			Recovery	= 0.00%	
109) 1-Chlorooctadecane	0.000	57	0	0.00 ppm	
Spiked Amount 50.000			Recovery	= 0.00%	

Target Compounds						Qvalue
2) 1,4-Dioxane	2.693	88	31048	23.78 ppm		89
3) Pyridine	3.009	79	80489	24.50 ppm		81
4) N-Nitrosodimethylamine	2.966	74	45329	23.75 ppm	#	68
6) Indene	5.330	116	143023	23.69 ppm		97
7) Cumene	4.496	105	185938	23.80 ppm		95
9) Phenol	4.827	94	103372	23.59 ppm	#	62
10) Aniline	4.849	93	104452	22.21 ppm		68
11) bis(2-Chloroethyl)ether	4.892	93	70634	23.05 ppm		87
12) 2-Chlorophenol	4.950	128	85001	23.72 ppm		91
13) Decane	4.972	43	75098	24.79 ppm		93
14) 1,3-Dichlorobenzene	5.068	146	94539	23.13 ppm		98
15) 1,4-Dichlorobenzene	5.127	146	98205	23.22 ppm		99
16) Benzyl alcohol	5.218	108	50592	23.51 ppm		100
17) 1,2-Dichlorobenzene	5.255	146	91144	23.63 ppm		97
18) Acetophenone	5.442	105	108268	23.89 ppm		94
19) 2-Methylphenol	5.314	108	71811	24.20 ppm		98
20) 2,2'-oxybis(1-Chloropr...	5.325	121	29173	23.89 ppm	#	53
21) 3&4-Methylphenol	5.437	108	77577	23.94 ppm		97

SGS ACCUTEST JC24133

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3E3699\
Data File : 3E84391.D
Acq On : 22 Jun 2016 12:29 pm
Operator : ashleyn
Sample : ic3699-25
Misc : op94630a,e3e3699
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 22 13:07:51 2016
Quant Method : C:\msdchem\1\METHODS\M3E3699.M
Quant Title : Semi Volatile GC/MS,zb-5msplus 30m x .25mm x .25MWed Jun 22 13:06:29 2016
QLast Update : Wed Jun 22 13:06:29 2016
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
22) n-Nitroso-di-n-propyla...	5.437	70	48794	24.61	ppm		83
23) Hexachloroethane	5.549	201	30408	24.30	ppm		88
26) Nitrobenzene	5.598	77	74476	24.87	ppm		80
27) Quinoline	6.662	129	160457	24.75	ppm		83
28) Isophorone	5.812	82	126541	24.14	ppm		81
29) 2-Nitrophenol	5.897	139	45116	24.42	ppm		99
30) 2,4-Dimethylphenol	5.924	107	63513	22.72	ppm		74
31) Benzoic acid	6.009	105	47902	29.97	ppm		98
32) bis(2-Chloroethoxy)met...	6.009	93	82675	24.48	ppm		98
33) 2,4-Dichlorophenol	6.132	162	66152	24.18	ppm		94
34) 2,6-Dichlorophenol	6.362	162	63797	23.28	ppm		96
35) 1,3,5-Trichlorobenzene	5.908	180	76473	24.16	ppm		98
36) 1,2,4-Trichlorobenzene	6.223	180	72122	24.39	ppm		96
37) 1,2,3-Trichlorobenzene	6.459	180	70944	24.66	ppm		95
38) Naphthalene	6.304	128	242275	23.88	ppm		100
39) 4-Chloroaniline	6.352	127	95820	24.67	ppm		78
40) 2,3-Dichloroaniline	7.427	161	78789	24.39	ppm		89
41) Caprolactam	6.726	55	30725	23.13	ppm		82
42) Hexachlorobutadiene	6.432	225	35137	24.10	ppm		98
43) 4-Chloro-3-methylphenol	6.887	107	60107	24.47	ppm		89
44) 2-Methylnaphthalene	7.079	141	139062	23.97	ppm		90
45) 1-Methylnaphthalene	7.202	141	143477	23.99	ppm		86
46) Dimethylnaphthalene	7.876	156	140015	24.36	ppm		90
48) Hexachlorocyclopentadiene	7.277	237	83886	52.96	ppm		98
49) 2,4,6-Trichlorophenol	7.427	196	46172	23.99	ppm		99
50) 2,4,5-Trichlorophenol	7.480	196	47335	24.16	ppm		96
52) 2-Chloronaphthalene	7.694	162	141296	24.51	ppm		87
53) Biphenyl	7.662	154	193426	23.59	ppm		96
54) 2-Nitroaniline	7.823	65	34964	25.21	ppm	#	49
55) Dimethylphthalate	8.069	163	155361	24.19	ppm		98
56) Acenaphthylene	8.251	152	241057	24.00	ppm		81
57) 2,6-Dinitrotoluene	8.149	165	35678	25.80	ppm	#	65
58) 3-Nitroaniline	8.384	138	41948	25.76	ppm	#	71
59) Acenaphthene	8.497	153	150827	23.25	ppm		91
60) 2,4-Dinitrophenol	8.534	184	33532	64.48	ppm	#	43
61) 4-Nitrophenol	8.646	109	14943	25.86	ppm	#	57
62) Dibenzofuran	8.743	168	201148	23.97	ppm		82
63) 2,4-Dinitrotoluene	8.721	165	46676	26.84	ppm	#	53
64) 2,3,4,6-Tetrachlorophenol	8.930	232	37733	26.27	ppm		82
65) Diethylphthalate	9.096	149	150509	23.94	ppm		96
66) Fluorene	9.245	166	165498	23.59	ppm		97
67) 4-Chlorophenyl-phenyle...	9.251	204	78142	23.73	ppm		76
68) 4-Nitroaniline	9.277	138	43140	25.89	ppm		79
70) 4,6-Dinitro-2-methylph...	9.331	198	24838	30.06	ppm	#	66
71) n-Nitrosodiphenylamine	9.427	169	108413	23.42	ppm		87
72) 1,2-Diphenylhydrazine	9.491	77	136406	23.55	ppm		80
74) 4-Bromophenyl-phenylether	9.994	248	43475	23.68	ppm	#	83
75) Hexachlorobenzene	10.090	284	53311	24.16	ppm		88
76) Pentachlorophenol	10.401	266	57443	63.48	ppm		98
77) Phenanthrene	10.711	178	229579	23.86	ppm		96

SGS ACCUTEST JC24133

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3E3699\
Data File : 3E84391.D
Acq On : 22 Jun 2016 12:29 pm
Operator : ashleyn
Sample : ic3699-25
Misc : op94630a,e3e3699
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 22 13:07:51 2016
Quant Method : C:\msdchem\1\METHODS\M3E3699.M
Quant Title : Semi Volatile GC/MS,zb-5msplus 30m x .25mm x .25MWed Jun 22 13:06:29 2016
QLast Update : Wed Jun 22 13:06:29 2016
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
78) Anthracene	10.791	178	227330	23.49 ppm	96
79) Carbazole	11.053	167	215230	24.00 ppm	92
80) Di-n-butylphthalate	11.658	149	261192	23.52 ppm	97
81) Fluoranthene	12.599	202	236194	23.31 ppm	96
82) Octadecane	10.583	57	89854	24.03 ppm	86
84) Pyrene	12.952	202	248284	23.40 ppm	95
86) Butylbenzylphthalate	14.065	149	111934	22.92 ppm	86
88) Benzo[a]anthracene	14.888	228	233728	22.29 ppm	96
89) 3,3'-Dichlorobenzidine	14.872	252	101704	24.56 ppm	97
90) Chrysene	14.942	228	220185	23.76 ppm	96
91) bis(2-Ethylhexyl)phtha...	15.022	149	157711	23.52 ppm	99
93) Di-n-octylphthalate	16.011	149	270497	21.88 ppm	91
94) Benzo[b]fluoranthene	16.509	252	254922	23.30 ppm	96
95) Benzo[k]fluoranthene	16.552	252	220822	23.35 ppm	97
96) Benzo[a]pyrene	16.985	252	205474	23.00 ppm	97
97) Indeno[1,2,3-cd]pyrene	18.916	276	211156	22.05 ppm	89
98) Dibenz(a,h)acridine	18.482	279	194198	22.45 ppm	90
99) Dibenz[a,h]anthracene	18.964	278	214343	23.15 ppm	95
100) 7,12-Dimethylbenz(a)an...	16.509	256	115062	24.35 ppm	94
101) Benzo[g,h,i]perylene	19.456	276	203901	23.06 ppm	87

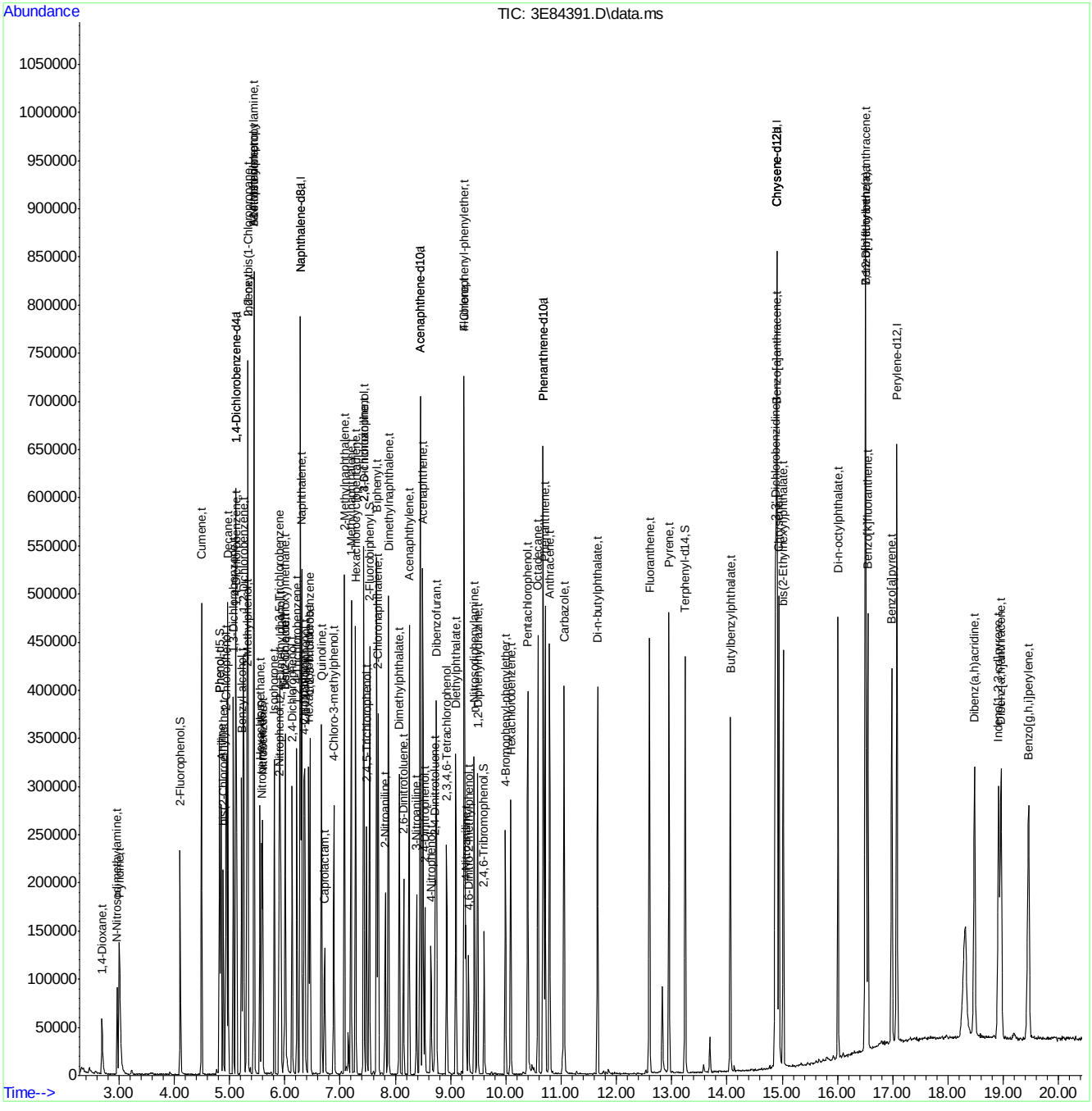
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC24133

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3E3699\
Data File : 3E84391.D
Acq On : 22 Jun 2016 12:29 pm
Operator : ashleyn
Sample : ic3699-25
Misc : op94630a,e3e3699
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 22 13:07:51 2016
Quant Method : C:\msdchem\1\METHODS\M3E3699.M
Quant Title : Semi Volatile GC/MS,zb-5msplus 30m x .25mm x .25MWed Jun 22 13:06:29 2016
QLast Update : Wed Jun 22 13:06:29 2016
Response via : Initial Calibration



SGS ACCUTEST JC24133

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3E3699\
Data File : 3E84392.D
Acq On : 22 Jun 2016 12:56 pm
Operator : ashleyn
Sample : ic3699-10
Misc : op94630a,e3e3699
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 22 14:32:43 2016
Quant Method : C:\msdchem\1\METHODS\M3E3699.M
Quant Title : Semi Volatile GC/MS,zb-5msplus 30m x .25mm x .25MWed Jun 22 13:08:09 2016
QLast Update : Wed Jun 22 13:08:09 2016
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.111	152	99022	40.00	ppm	0.00
24) Naphthalene-d8	6.282	136	378925	40.00	ppm	0.00
47) Acenaphthene-d10	8.448	164	214671	40.00	ppm	0.00
69) Phenanthrene-d10	10.673	188	359308	40.00	ppm	0.00
83) Chrysene-d12	14.904	240	360567	40.00	ppm	-0.01
92) Perylene-d12	17.076	264	349547	40.00	ppm	0.00
102) 1,4-Dichlorobenzene-d4a	5.111	152	99022	40.00	ppm	0.00
104) Acenaphthene-d10a	8.448	164	214671	40.00	ppm	0.00
106) Phenanthrene-d10a	10.673	188	359308	40.00	ppm	0.00
110) Chrysene-d12a	14.904	240	360567	40.00	ppm	-0.01
112) Naphthalene-d8a	6.282	136	378925	40.00	ppm	0.00
114) Chrysene-d12b	14.904	240	360567	40.00	ppm	-0.01

System Monitoring Compounds						
5) 2-Fluorophenol	4.105	112	30724	9.90	ppm	0.02
Spiked Amount 50.000			Recovery	=	19.80%	
8) Phenol-d5	4.817	99	36897	9.74	ppm	-0.04
Spiked Amount 50.000			Recovery	=	19.48%	
25) Nitrobenzene-d5	5.582	82	28683	9.80	ppm	0.00
Spiked Amount 50.000			Recovery	=	19.60%	
51) 2-Fluorobiphenyl	7.528	172	69719	9.74	ppm	0.00
Spiked Amount 50.000			Recovery	=	19.48%	
73) 2,4,6-Tribromophenol	9.604	330	11235	9.64	ppm	0.02
Spiked Amount 50.000			Recovery	=	19.28%	
85) Terphenyl-d14	13.241	244	76713	10.07	ppm	-0.05
Spiked Amount 50.000			Recovery	=	20.14%	
108) o-Terphenyl	0.000	230	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
109) 1-Chlorooctadecane	0.000	57	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	

Target Compounds							Qvalue
2) 1,4-Dioxane	2.693	88	12698	9.60	ppm		86
3) Pyridine	3.014	79	33600	10.04	ppm		81
4) N-Nitrosodimethylamine	2.966	74	18757	9.71	ppm	#	68
6) Indene	5.330	116	60775	9.95	ppm		96
7) Cumene	4.490	105	76186	9.63	ppm		97
9) Phenol	4.822	94	44434	10.03	ppm	#	62
10) Aniline	4.849	93	45104	9.59	ppm		65
11) bis(2-Chloroethyl)ether	4.886	93	29519	9.57	ppm		85
12) 2-Chlorophenol	4.945	128	35716	9.85	ppm		92
13) Decane	4.972	43	29750	9.62	ppm		87
14) 1,3-Dichlorobenzene	5.068	146	40275	9.78	ppm		97
15) 1,4-Dichlorobenzene	5.127	146	40554	9.51	ppm		98
16) Benzyl alcohol	5.218	108	21087	9.70	ppm		96
17) 1,2-Dichlorobenzene	5.255	146	37904	9.71	ppm		96
18) Acetophenone	5.442	105	43750	9.52	ppm		98
19) 2-Methylphenol	5.309	108	29553	9.80	ppm		95
20) 2,2'-oxybis(1-Chloropr...	5.325	121	11934	9.64	ppm	#	51
21) 3&4-Methylphenol	5.437	108	31924	9.71	ppm		95

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3E3699\
Data File : 3E84392.D
Acq On : 22 Jun 2016 12:56 pm
Operator : ashleyn
Sample : ic3699-10
Misc : op94630a,e3e3699
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 22 14:32:43 2016
Quant Method : C:\msdchem\1\METHODS\M3E3699.M
Quant Title : Semi Volatile GC/MS,zb-5msplus 30m x .25mm x .25MWed Jun 22 13:08:09 2016
QLast Update : Wed Jun 22 13:08:09 2016
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
22) n-Nitroso-di-n-propyla...	5.437	70	19978	9.88	ppm		83
23) Hexachloroethane	5.549	201	12210	9.59	ppm		89
26) Nitrobenzene	5.598	77	30411	9.80	ppm		72
27) Quinoline	6.662	129	67448	10.05	ppm		82
28) Isophorone	5.812	82	53615	9.93	ppm		79
29) 2-Nitrophenol	5.897	139	18722	9.82	ppm		95
30) 2,4-Dimethylphenol	5.924	107	26182	9.20	ppm		74
31) Benzoic acid	5.988	105	17965	10.42	ppm		99
32) bis(2-Chloroethoxy)met...	6.004	93	34249	9.82	ppm		99
33) 2,4-Dichlorophenol	6.132	162	28105	9.97	ppm		93
34) 2,6-Dichlorophenol	6.362	162	26692	9.52	ppm		96
35) 1,3,5-Trichlorobenzene	5.908	180	32563	9.99	ppm		96
36) 1,2,4-Trichlorobenzene	6.218	180	30361	9.95	ppm		93
37) 1,2,3-Trichlorobenzene	6.459	180	29957	10.07	ppm		95
38) Naphthalene	6.304	128	102450	9.82	ppm		100
39) 4-Chloroaniline	6.346	127	40279	10.02	ppm		78
40) 2,3-Dichloroaniline	7.421	161	34264	10.28	ppm		85
41) Caprolactam	6.705	55	12650	9.32	ppm		83
42) Hexachlorobutadiene	6.432	225	15258	10.16	ppm		94
43) 4-Chloro-3-methylphenol	6.881	107	25228	9.94	ppm		90
44) 2-Methylnaphthalene	7.079	141	56811	9.52	ppm		88
45) 1-Methylnaphthalene	7.197	141	60207	9.78	ppm		91
46) Dimethylnaphthalene	7.871	156	61378	10.35	ppm		87
48) Hexachlorocyclopentadiene	7.277	237	32561	19.40	ppm		94
49) 2,4,6-Trichlorophenol	7.427	196	19273	9.64	ppm		97
50) 2,4,5-Trichlorophenol	7.475	196	19981	9.80	ppm		93
52) 2-Chloronaphthalene	7.689	162	60831	10.11	ppm		89
53) Biphenyl	7.662	154	83094	9.79	ppm		95
54) 2-Nitroaniline	7.817	65	13952	9.59	ppm	#	52
55) Dimethylphthalate	8.069	163	66468	9.95	ppm		98
56) Acenaphthylene	8.251	152	102920	9.86	ppm		79
57) 2,6-Dinitrotoluene	8.144	165	14904	10.22	ppm	#	65
58) 3-Nitroaniline	8.379	138	17063	9.94	ppm	#	73
59) Acenaphthene	8.497	153	63866	9.53	ppm		92
60) 2,4-Dinitrophenol	8.529	184	10957	19.01	ppm	#	49
61) 4-Nitrophenol	8.641	109	5961	9.78	ppm	#	58
62) Dibenzofuran	8.743	168	86623	9.94	ppm		82
63) 2,4-Dinitrotoluene	8.721	165	18845	10.19	ppm	#	46
64) 2,3,4,6-Tetrachlorophenol	8.930	232	15359	10.11	ppm		82
65) Diethylphthalate	9.090	149	63547	9.73	ppm		94
66) Fluorene	9.245	166	70148	9.66	ppm		98
67) 4-Chlorophenyl-phenyle...	9.251	204	34060	9.98	ppm		76
68) 4-Nitroaniline	9.267	138	18177	10.34	ppm		81
70) 4,6-Dinitro-2-methylph...	9.326	198	9280	10.19	ppm		69
71) n-Nitrosodiphenylamine	9.427	169	45927	9.49	ppm		91
72) 1,2-Diphenylhydrazine	9.486	77	57927	9.55	ppm		81
74) 4-Bromophenyl-phenylether	9.989	248	18662	9.70	ppm		85
75) Hexachlorobenzene	10.090	284	23086	9.95	ppm		83
76) Pentachlorophenol	10.395	266	20466	20.27	ppm		98
77) Phenanthrene	10.711	178	98162	9.72	ppm		98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3E3699\
Data File : 3E84392.D
Acq On : 22 Jun 2016 12:56 pm
Operator : ashleyn
Sample : ic3699-10
Misc : op94630a,e3e3699
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 22 14:32:43 2016
Quant Method : C:\msdchem\1\METHODS\M3E3699.M
Quant Title : Semi Volatile GC/MS,zb-5msplus 30m x .25mm x .25MWed Jun 22 13:08:09 2016
QLast Update : Wed Jun 22 13:08:09 2016
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
78) Anthracene	10.786	178	98522	9.73 ppm	96
79) Carbazole	11.048	167	92517	9.82 ppm	93
80) Di-n-butylphthalate	11.658	149	109750	9.45 ppm	96
81) Fluoranthene	12.594	202	99649	9.42 ppm	96
82) Octadecane	10.583	57	36467	9.28 ppm	83
84) Pyrene	12.952	202	107015	9.76 ppm	95
86) Butylbenzylphthalate	14.059	149	47024	9.35 ppm	84
88) Benzo[a]anthracene	14.888	228	102318	9.52 ppm	94
89) 3,3'-Dichlorobenzidine	14.872	252	42551	9.85 ppm	96
90) Chrysene	14.942	228	96106	10.00 ppm	96
91) bis(2-Ethylhexyl)phtha...	15.017	149	66412	9.57 ppm	97
93) Di-n-octylphthalate	16.006	149	114344	8.51 ppm	91
94) Benzo[b]fluoranthene	16.503	252	110081	9.15 ppm	95
95) Benzo[k]fluoranthene	16.541	252	98975	9.51 ppm	98
96) Benzo[a]pyrene	16.980	252	92766	9.46 ppm	97
97) Indeno[1,2,3-cd]pyrene	18.910	276	92998	8.92 ppm	87
98) Dibenz(a,h)acridine	18.477	279	87767	9.29 ppm	89
99) Dibenz[a,h]anthracene	18.953	278	97242	9.56 ppm	96
100) 7,12-Dimethylbenz(a)an...	16.503	256	47652	9.09 ppm	93
101) Benzo[g,h,i]perylene	19.445	276	92458	9.52 ppm	88

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

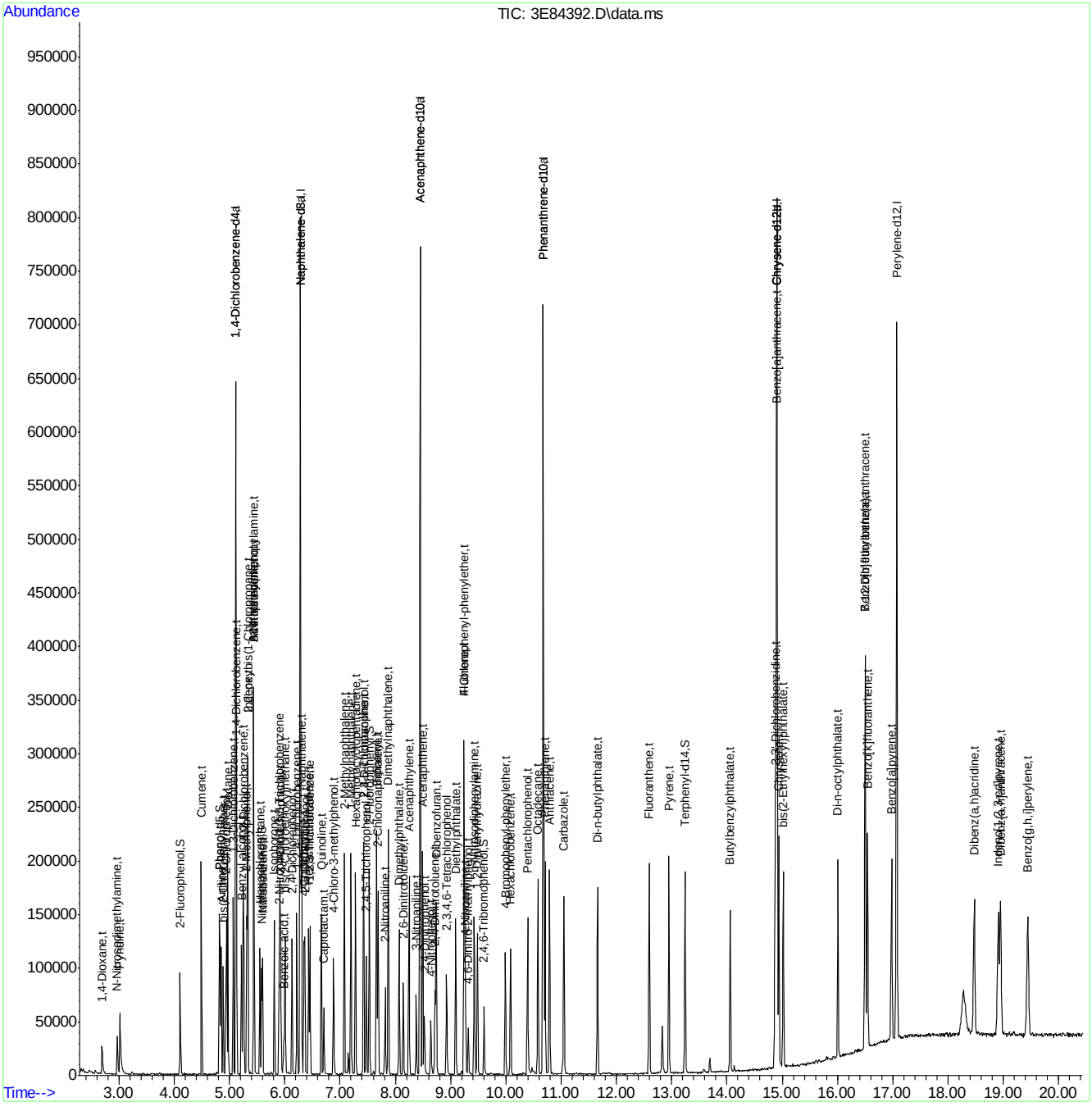
7.6.6

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3E3699\
Data File : 3E84392.D
Acq On : 22 Jun 2016 12:56 pm
Operator : ashleyn
Sample : ic3699-10
Misc : op94630a,e3e3699
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 22 14:32:43 2016
Quant Method : C:\msdchem\1\METHODS\M3E3699.M
Quant Title : Semi Volatile GC/MS,zb-5msplus 30m x .25mm x .25MWed Jun 22 13:08:09 2016
QLast Update : Wed Jun 22 13:08:09 2016
Response via : Initial Calibration



SGS ACCUTEST JC24133

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3E3699\
Data File : 3E84393.D
Acq On : 22 Jun 2016 1:23 pm
Operator : ashleyn
Sample : ic3699-5
Misc : op94630a,e3e3699
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 22 14:40:13 2016
Quant Method : C:\msdchem\1\METHODS\M3E3699.M
Quant Title : Semi Volatile GC/MS,zb-5msplus 30m x .25mm x .25MWed Jun 22 14:37:39 2016
QLast Update : Wed Jun 22 14:37:39 2016
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.111	152	101014	40.00	ppm	0.00
24) Naphthalene-d8	6.282	136	390775	40.00	ppm	0.00
47) Acenaphthene-d10	8.448	164	222508	40.00	ppm	0.00
69) Phenanthrene-d10	10.673	188	376882	40.00	ppm	0.00
83) Chrysene-d12	14.904	240	381258	40.00	ppm	-0.01
92) Perylene-d12	17.076	264	368084	40.00	ppm	0.00
102) 1,4-Dichlorobenzene-d4a	5.111	152	101014	40.00	ppm	0.00
104) Acenaphthene-d10a	8.448	164	222508	40.00	ppm	0.00
106) Phenanthrene-d10a	10.673	188	376882	40.00	ppm	0.00
110) Chrysene-d12a	14.904	240	381258	40.00	ppm	-0.01
112) Naphthalene-d8a	6.282	136	390775	40.00	ppm	0.00
114) Chrysene-d12b	14.904	240	381258	40.00	ppm	-0.01

System Monitoring Compounds						
5) 2-Fluorophenol	4.105	112	15198	4.81	ppm	0.02
Spiked Amount 50.000			Recovery	=	9.62%	
8) Phenol-d5	4.811	99	18685	4.85	ppm	-0.04
Spiked Amount 50.000			Recovery	=	9.70%	
25) Nitrobenzene-d5	5.581	82	14512	4.82	ppm	0.00
Spiked Amount 50.000			Recovery	=	9.64%	
51) 2-Fluorobiphenyl	7.528	172	36294	4.91	ppm	0.00
Spiked Amount 50.000			Recovery	=	9.82%	
73) 2,4,6-Tribromophenol	9.604	330	5838	4.80	ppm	0.02
Spiked Amount 50.000			Recovery	=	9.60%	
85) Terphenyl-d14	13.241	244	39639	4.91	ppm	-0.05
Spiked Amount 50.000			Recovery	=	9.82%	
108) o-Terphenyl	0.000	230	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
109) 1-Chlorooctadecane	0.000	57	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	

Target Compounds							Qvalue
2) 1,4-Dioxane	2.693	88	6893	5.14	ppm		80
3) Pyridine	3.019	79	17192	5.03	ppm		83
4) N-Nitrosodimethylamine	2.971	74	9884	5.04	ppm	#	58
6) Indene	5.330	116	31203	5.01	ppm		97
7) Cumene	4.496	105	39661	4.94	ppm		94
9) Phenol	4.822	94	21951	4.85	ppm		67
10) Aniline	4.849	93	25058	5.26	ppm		64
11) bis(2-Chloroethyl)ether	4.886	93	15506	4.96	ppm		85
12) 2-Chlorophenol	4.950	128	18815	5.10	ppm		89
13) Decane	4.972	43	15785	5.04	ppm		84
14) 1,3-Dichlorobenzene	5.068	146	20652	4.93	ppm		99
15) 1,4-Dichlorobenzene	5.127	146	21309	4.94	ppm		98
16) Benzyl alcohol	5.218	108	10453	4.74	ppm		94
17) 1,2-Dichlorobenzene	5.255	146	19532	4.93	ppm		100
18) Acetophenone	5.442	105	22794	4.90	ppm		94
19) 2-Methylphenol	5.309	108	15455	5.04	ppm		98
20) 2,2'-oxybis(1-Chloropr...	5.325	121	6051	4.82	ppm	#	48
21) 3&4-Methylphenol	5.437	108	16054	4.81	ppm		95

SGS ACCUTEST JC24133

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3E3699\
Data File : 3E84393.D
Acq On : 22 Jun 2016 1:23 pm
Operator : ashleyn
Sample : ic3699-5
Misc : op94630a,e3e3699
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 22 14:40:13 2016
Quant Method : C:\msdchem\1\METHODS\M3E3699.M
Quant Title : Semi Volatile GC/MS,zb-5msplus 30m x .25mm x .25MWed Jun 22 14:37:39 2016
QLast Update : Wed Jun 22 14:37:39 2016
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
22) n-Nitroso-di-n-propyla...	5.437	70	10322	5.01	ppm		79
23) Hexachloroethane	5.549	201	6542	5.07	ppm		94
26) Nitrobenzene	5.597	77	15241	4.78	ppm		71
27) Quinoline	6.662	129	35109	5.07	ppm		87
28) Isophorone	5.811	82	27269	4.90	ppm		78
29) 2-Nitrophenol	5.892	139	9304	4.75	ppm		92
30) 2,4-Dimethylphenol	5.924	107	13969	4.82	ppm	#	73
31) Benzoic acid	5.977	105	7546	4.21	ppm		94
32) bis(2-Chloroethoxy)met...	6.004	93	17634	4.92	ppm		99
33) 2,4-Dichlorophenol	6.132	162	14181	4.88	ppm		91
34) 2,6-Dichlorophenol	6.362	162	14300	4.99	ppm		91
35) 1,3,5-Trichlorobenzene	5.908	180	17634	5.24	ppm		94
36) 1,2,4-Trichlorobenzene	6.218	180	15661	4.98	ppm		92
37) 1,2,3-Trichlorobenzene	6.453	180	15729	5.12	ppm		97
38) Naphthalene	6.303	128	53148	4.96	ppm		100
39) 4-Chloroaniline	6.346	127	21442	5.17	ppm		78
40) 2,3-Dichloroaniline	7.421	161	17669	5.11	ppm		90
41) Caprolactam	6.699	55	6746	4.88	ppm		80
42) Hexachlorobutadiene	6.432	225	8195	5.28	ppm		95
43) 4-Chloro-3-methylphenol	6.881	107	13382	5.12	ppm		81
44) 2-Methylnaphthalene	7.079	141	29908	4.90	ppm		86
45) 1-Methylnaphthalene	7.197	141	31265	4.94	ppm		88
46) Dimethylnaphthalene	7.871	156	31220	5.08	ppm		93
48) Hexachlorocyclopentadiene	7.277	237	16303	9.42	ppm		98
49) 2,4,6-Trichlorophenol	7.427	196	9901	4.81	ppm		99
50) 2,4,5-Trichlorophenol	7.475	196	10601	5.03	ppm		95
52) 2-Chloronaphthalene	7.689	162	33147	5.31	ppm		90
53) Biphenyl	7.662	154	42931	4.89	ppm		92
54) 2-Nitroaniline	7.817	65	6908	4.61	ppm	#	47
55) Dimethylphthalate	8.069	163	35246	5.09	ppm		98
56) Acenaphthylene	8.245	152	52329	4.85	ppm		81
57) 2,6-Dinitrotoluene	8.143	165	7432	4.90	ppm	#	63
58) 3-Nitroaniline	8.379	138	8912	5.02	ppm	#	73
59) Acenaphthene	8.491	153	34417	4.99	ppm		89
60) 2,4-Dinitrophenol	8.528	184	4857	8.20	ppm	#	29
61) 4-Nitrophenol	8.646	109	3048	4.84	ppm	#	41
62) Dibenzofuran	8.742	168	46137	5.11	ppm		79
63) 2,4-Dinitrotoluene	8.716	165	9314	4.85	ppm	#	53
64) 2,3,4,6-Tetrachlorophenol	8.930	232	7960	5.04	ppm		83
65) Diethylphthalate	9.090	149	33527	4.98	ppm		96
66) Fluorene	9.240	166	37351	4.99	ppm		91
67) 4-Chlorophenyl-phenyle...	9.251	204	17752	5.02	ppm		77
68) 4-Nitroaniline	9.267	138	8644	4.72	ppm		86
70) 4,6-Dinitro-2-methylph...	9.320	198	4026	4.20	ppm		72
71) n-Nitrosodiphenylamine	9.427	169	24159	4.80	ppm		91
72) 1,2-Diphenylhydrazine	9.486	77	30009	4.75	ppm		80
74) 4-Bromophenyl-phenylether	9.989	248	9829	4.90	ppm		83
75) Hexachlorobenzene	10.085	284	12413	5.10	ppm		87
76) Pentachlorophenol	10.395	266	8629	8.13	ppm		98
77) Phenanthrene	10.705	178	52873	5.02	ppm		96

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3E3699\
Data File : 3E84393.D
Acq On : 22 Jun 2016 1:23 pm
Operator : ashleyn
Sample : ic3699-5
Misc : op94630a,e3e3699
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 22 14:40:13 2016
Quant Method : C:\msdchem\1\METHODS\M3E3699.M
Quant Title : Semi Volatile GC/MS,zb-5msplus 30m x .25mm x .25MWed Jun 22 14:37:39 2016
QLast Update : Wed Jun 22 14:37:39 2016
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
78) Anthracene	10.786	178	52788	4.99 ppm	95
79) Carbazole	11.048	167	49548	5.03 ppm	90
80) Di-n-butylphthalate	11.657	149	55892	4.63 ppm	97
81) Fluoranthene	12.593	202	53506	4.87 ppm	94
82) Octadecane	10.577	57	18370	4.51 ppm	81
84) Pyrene	12.952	202	56380	4.88 ppm	93
86) Butylbenzylphthalate	14.059	149	24651	4.69 ppm	83
88) Benzo[a]anthracene	14.883	228	54251	4.81 ppm	95
89) 3,3'-Dichlorobenzidine	14.872	252	21908	4.81 ppm	99
90) Chrysene	14.936	228	52110	5.13 ppm	96
91) bis(2-Ethylhexyl)phtha...	15.016	149	34695	4.76 ppm	98
93) Di-n-octylphthalate	16.006	149	60482	4.38 ppm	92
94) Benzo[b]fluoranthene	16.503	252	56225	4.50 ppm	97
95) Benzo[k]fluoranthene	16.541	252	55033	5.06 ppm	93
96) Benzo[a]pyrene	16.979	252	49790	4.87 ppm	95
97) Indeno[1,2,3-cd]pyrene	18.905	276	48860	4.53 ppm	88
98) Dibenz(a,h)acridine	18.472	279	47151	4.80 ppm	89
99) Dibenz[a,h]anthracene	18.948	278	53904	5.07 ppm	97
100) 7,12-Dimethylbenz(a)an...	16.498	256	23256	4.28 ppm	90
101) Benzo[g,h,i]perylene	19.440	276	50930	5.02 ppm	89

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

7.6.7

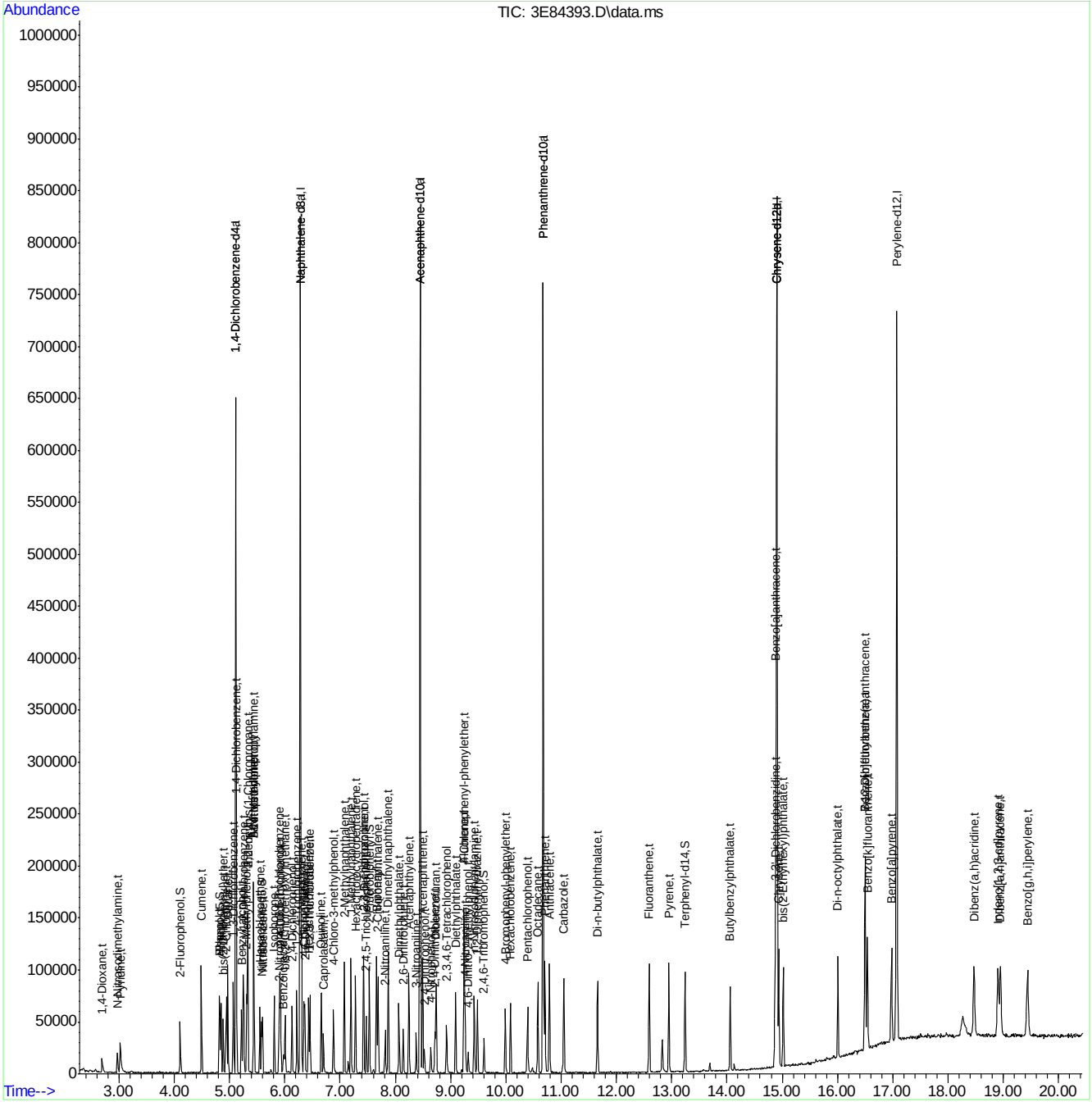
7

SGS ACCUTEST JC24133

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3E3699\
Data File : 3E84393.D
Acq On : 22 Jun 2016 1:23 pm
Operator : ashleyn
Sample : ic3699-5
Misc : op94630a,e3e3699
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 22 14:40:13 2016
Quant Method : C:\msdchem\1\METHODS\M3E3699.M
Quant Title : Semi Volatile GC/MS,zb-5msplus 30m x .25mm x .25MWed Jun 22 14:37:39 2016
QLast Update : Wed Jun 22 14:37:39 2016
Response via : Initial Calibration



SGS ACCUTEST JC24133

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3E3699\
Data File : 3E84394.D
Acq On : 22 Jun 2016 1:50 pm
Operator : ashleyn
Sample : icc3699-50
Misc : op94630a,e3e3699
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 22 14:42:35 2016
Quant Method : C:\msdchem\1\METHODS\M3E3699.M
Quant Title : Semi Volatile GC/MS,zb-5msplus 30m x .25mm x .25MWed Jun 22 14:41:41 2016
QLast Update : Wed Jun 22 14:41:41 2016
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.116	152	107092	40.00	ppm	0.00
24) Naphthalene-d8	6.282	136	400246	40.00	ppm	0.00
47) Acenaphthene-d10	8.454	164	214051	40.00	ppm	0.00
69) Phenanthrene-d10	10.679	188	345796	40.00	ppm	0.00
83) Chrysene-d12	14.909	240	364354	40.00	ppm	0.00
92) Perylene-d12	17.081	264	323096	40.00	ppm	0.00
102) 1,4-Dichlorobenzene-d4a	5.116	152	107092	40.00	ppm	0.00
104) Acenaphthene-d10a	8.454	164	214051	40.00	ppm	0.00
106) Phenanthrene-d10a	10.679	188	345796	40.00	ppm	0.00
110) Chrysene-d12a	14.909	240	364354	40.00	ppm	0.00
112) Naphthalene-d8a	6.282	136	400246	40.00	ppm	0.00
114) Chrysene-d12b	14.909	240	364354	40.00	ppm	0.00

System Monitoring Compounds						
5) 2-Fluorophenol	4.105	112	161047	48.32	ppm	0.02
Spiked Amount 50.000			Recovery = 96.64%			
8) Phenol-d5	4.822	99	191516	47.13	ppm	-0.03
Spiked Amount 50.000			Recovery = 94.26%			
25) Nitrobenzene-d5	5.587	82	147653	48.15	ppm	0.00
Spiked Amount 50.000			Recovery = 96.30%			
51) 2-Fluorobiphenyl	7.534	172	350097	49.37	ppm	0.00
Spiked Amount 50.000			Recovery = 98.74%			
73) 2,4,6-Tribromophenol	9.609	330	59454	53.61	ppm	0.02
Spiked Amount 50.000			Recovery = 107.22%			
85) Terphenyl-d14	13.246	244	376725	48.98	ppm	-0.05
Spiked Amount 50.000			Recovery = 97.96%			
108) o-Terphenyl	0.000	230	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
109) 1-Chlorooctadecane	0.000	57	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			

Target Compounds							Qvalue
2) 1,4-Dioxane	2.688	88	67886	47.59	ppm		88
3) Pyridine	3.003	79	170617	47.06	ppm		85
4) N-Nitrosodimethylamine	2.961	74	97427	46.79	ppm	#	64
6) Indene	5.330	116	319619	48.40	ppm		96
7) Cumene	4.496	105	405608	47.76	ppm		94
9) Phenol	4.833	94	228011	47.75	ppm	#	59
10) Aniline	4.849	93	215039	42.26	ppm		66
11) bis(2-Chloroethyl)ether	4.891	93	157721	47.66	ppm		88
12) 2-Chlorophenol	4.950	128	194232	49.50	ppm		92
13) Decane	4.972	43	154734	46.51	ppm		88
14) 1,3-Dichlorobenzene	5.073	146	206727	46.68	ppm		98
15) 1,4-Dichlorobenzene	5.127	146	217824	47.71	ppm		97
16) Benzyl alcohol	5.223	108	110966	47.79	ppm		99
17) 1,2-Dichlorobenzene	5.261	146	201595	48.09	ppm		98
18) Acetophenone	5.448	105	238451	48.51	ppm		95
19) 2-Methylphenol	5.314	108	154908	47.60	ppm		95
20) 2,2'-oxybis(1-Chloropr...	5.330	121	62369	47.11	ppm	#	41
21) 3&4-Methylphenol	5.442	108	168712	47.96	ppm		94

SGS ACCUTEST JC24133

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3E3699\
Data File : 3E84394.D
Acq On : 22 Jun 2016 1:50 pm
Operator : ashleyn
Sample : icc3699-50
Misc : op94630a,e3e3699
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 22 14:42:35 2016
Quant Method : C:\msdchem\1\METHODS\M3E3699.M
Quant Title : Semi Volatile GC/MS,zb-5msplus 30m x .25mm x .25MWed Jun 22 14:41:41 2016
QLast Update : Wed Jun 22 14:41:41 2016
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
22) n-Nitroso-di-n-propyla...	5.442	70	104251	47.75	ppm		81
23) Hexachloroethane	5.555	201	65898	48.10	ppm		98
26) Nitrobenzene	5.603	77	155500	47.91	ppm		74
27) Quinoline	6.673	129	343826	48.37	ppm		84
28) Isophorone	5.817	82	272624	47.99	ppm		79
29) 2-Nitrophenol	5.897	139	101352	50.84	ppm		97
30) 2,4-Dimethylphenol	5.924	107	146338	49.58	ppm		80
31) Benzoic acid	6.041	105	114402	63.82	ppm		96
32) bis(2-Chloroethoxy)met...	6.009	93	179176	48.90	ppm		99
33) 2,4-Dichlorophenol	6.138	162	149510	50.41	ppm		92
34) 2,6-Dichlorophenol	6.368	162	144977	49.38	ppm		91
35) 1,3,5-Trichlorobenzene	5.913	180	173325	49.98	ppm		97
36) 1,2,4-Trichlorobenzene	6.223	180	162515	50.48	ppm		96
37) 1,2,3-Trichlorobenzene	6.459	180	152888	48.43	ppm		94
38) Naphthalene	6.309	128	531440	48.45	ppm		100
39) 4-Chloroaniline	6.352	127	209086	49.00	ppm		78
40) 2,3-Dichloroaniline	7.427	161	174140	49.06	ppm		87
41) Caprolactam	6.747	55	63948	45.29	ppm		82
42) Hexachlorobutadiene	6.437	225	78555	49.01	ppm		97
43) 4-Chloro-3-methylphenol	6.892	107	129556	48.22	ppm		83
44) 2-Methylnaphthalene	7.079	141	302782	48.57	ppm		89
45) 1-Methylnaphthalene	7.202	141	313770	48.52	ppm		90
46) Dimethylnaphthalene	7.876	156	303645	48.09	ppm		88
48) Hexachlorocyclopentadiene	7.282	237	193832	117.36	ppm		97
49) 2,4,6-Trichlorophenol	7.432	196	101551	51.52	ppm		96
50) 2,4,5-Trichlorophenol	7.486	196	105036	51.80	ppm		100
52) 2-Chloronaphthalene	7.694	162	305732	50.43	ppm		89
53) Biphenyl	7.667	154	414141	49.23	ppm		96
54) 2-Nitroaniline	7.822	65	71752	50.35	ppm	#	48
55) Dimethylphthalate	8.074	163	330327	49.48	ppm		99
56) Acenaphthylene	8.250	152	517692	50.08	ppm		81
57) 2,6-Dinitrotoluene	8.154	165	76845	52.82	ppm	#	62
58) 3-Nitroaniline	8.389	138	88720	51.88	ppm	#	70
59) Acenaphthene	8.502	153	325645	49.13	ppm		94
60) 2,4-Dinitrophenol	8.539	184	83737	150.82	ppm	#	41
61) 4-Nitrophenol	8.652	109	32526	53.96	ppm	#	62
62) Dibenzofuran	8.748	168	423971	48.67	ppm		82
63) 2,4-Dinitrotoluene	8.726	165	104394	56.70	ppm	#	53
64) 2,3,4,6-Tetrachlorophenol	8.930	232	84073	55.31	ppm		83
65) Diethylphthalate	9.101	149	318227	49.13	ppm		96
66) Fluorene	9.251	166	356523	49.51	ppm		96
67) 4-Chlorophenyl-phenyle...	9.256	204	167485	49.19	ppm		76
68) 4-Nitroaniline	9.288	138	94036	53.78	ppm		78
70) 4,6-Dinitro-2-methylph...	9.336	198	59209	68.94	ppm	#	67
71) n-Nitrosodiphenylamine	9.432	169	226204	49.26	ppm		90
72) 1,2-Diphenylhydrazine	9.491	77	286870	49.88	ppm		81
74) 4-Bromophenyl-phenylether	9.994	248	93784	51.07	ppm		84
75) Hexachlorobenzene	10.090	284	116127	51.88	ppm		86
76) Pentachlorophenol	10.401	266	139938	147.61	ppm		96
77) Phenanthrene	10.716	178	470285	48.61	ppm		97

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3E3699\
Data File : 3E84394.D
Acq On : 22 Jun 2016 1:50 pm
Operator : ashleyn
Sample : icc3699-50
Misc : op94630a,e3e3699
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 22 14:42:35 2016
Quant Method : C:\msdchem\1\METHODS\M3E3699.M
Quant Title : Semi Volatile GC/MS,zb-5msplus 30m x .25mm x .25MWed Jun 22 14:41:41 2016
QLast Update : Wed Jun 22 14:41:41 2016
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
78) Anthracene	10.796	178	470612	48.52 ppm	96
79) Carbazole	11.058	167	443256	49.00 ppm	90
80) Di-n-butylphthalate	11.663	149	553919	50.54 ppm	97
81) Fluoranthene	12.599	202	509607	50.72 ppm	96
82) Octadecane	10.582	57	185209	50.28 ppm	85
84) Pyrene	12.957	202	527303	47.93 ppm	95
86) Butylbenzylphthalate	14.064	149	239386	48.06 ppm	85
88) Benzo[a]anthracene	14.893	228	505073	47.15 ppm	94
89) 3,3'-Dichlorobenzidine	14.877	252	213835	49.37 ppm	98
90) Chrysene	14.952	228	452624	46.45 ppm	96
91) bis(2-Ethylhexyl)phtha...	15.022	149	322547	46.65 ppm	96
93) Di-n-octylphthalate	16.011	149	575424	48.35 ppm	92
94) Benzo[b]fluoranthene	16.519	252	560334	51.84 ppm	94
95) Benzo[k]fluoranthene	16.562	252	447587	46.82 ppm	97
96) Benzo[a]pyrene	16.990	252	424719	47.47 ppm	97
97) Indeno[1,2,3-cd]pyrene	18.932	276	462719	49.56 ppm	89
98) Dibenz(a,h)acridine	18.493	279	420938	49.06 ppm	92
99) Dibenz[a,h]anthracene	18.974	278	450503	48.18 ppm	95
100) 7,12-Dimethylbenz(a)an...	16.519	256	255980	54.77 ppm	91
101) Benzo[g,h,i]perylene	19.477	276	431466	48.44 ppm	87

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

7.6.8

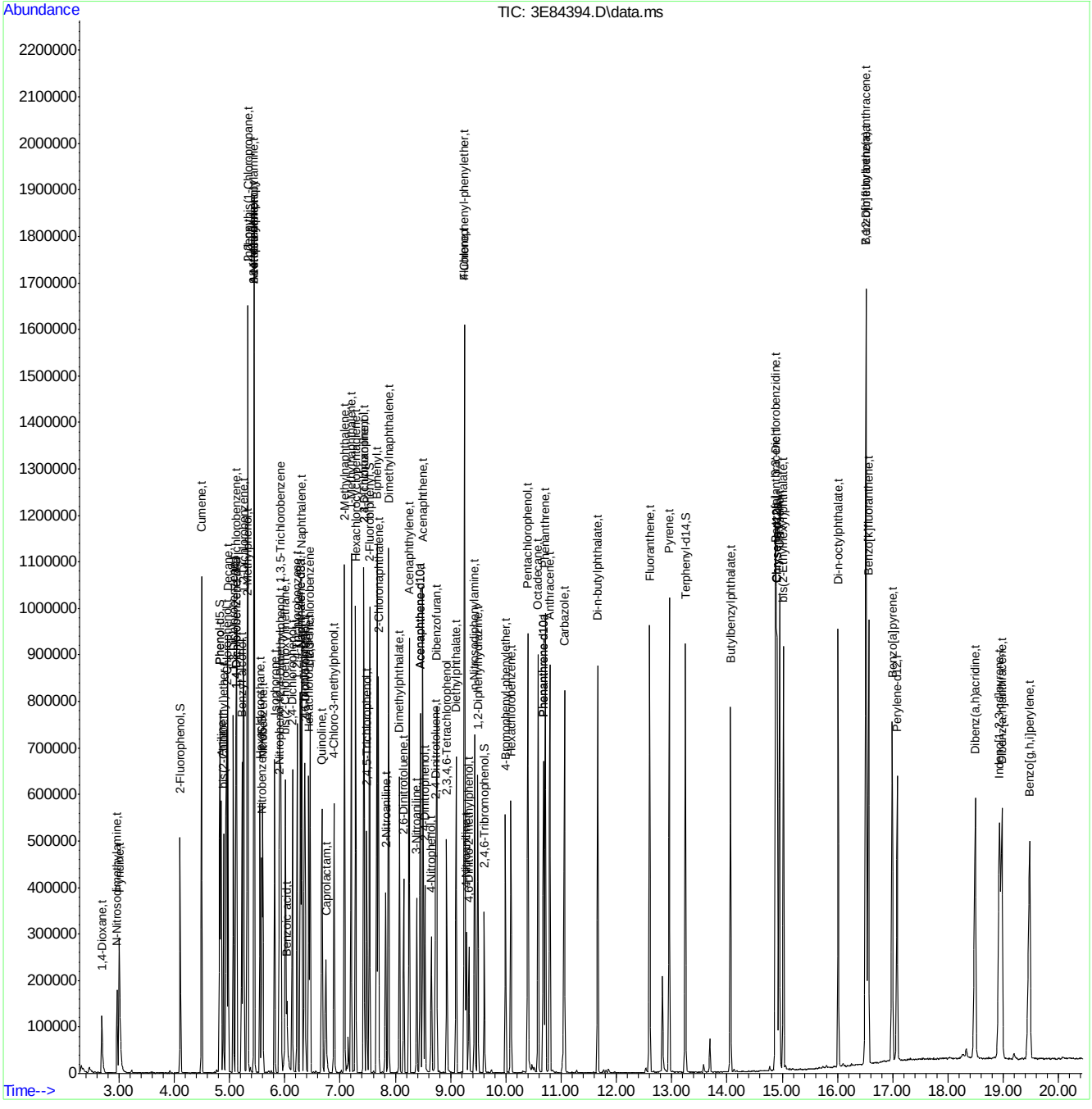
7

SGS ACCUTEST JC24133

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3E3699\
Data File : 3E84394.D
Acq On : 22 Jun 2016 1:50 pm
Operator : ashleyn
Sample : icc3699-50
Misc : op94630a,e3e3699
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 22 14:42:35 2016
Quant Method : C:\msdchem\1\METHODS\M3E3699.M
Quant Title : Semi Volatile GC/MS,zb-5msplus 30m x .25mm x .25MWed Jun 22 14:41:41 2016
QLast Update : Wed Jun 22 14:41:41 2016
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3E3699\
Data File : 3E84395.D
Acq On : 22 Jun 2016 2:17 pm
Operator : ashleyn
Sample : icv3699-50
Misc : op94630a,e3e3699
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jun 22 15:14:03 2016
Quant Method : C:\msdchem\1\METHODS\M3E3699.M
Quant Title : Semi Volatile GC/MS,zb-5msplus 30m x .25mm x .25MWed Jun 22 15:07:09 2016
QLast Update : Wed Jun 22 15:07:09 2016
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.111	152	94939	40.00	ppm	0.00
24) Naphthalene-d8	6.282	136	349188	40.00	ppm	0.00
47) Acenaphthene-d10	8.448	164	192613	40.00	ppm	0.00
69) Phenanthrene-d10	10.673	188	302861	40.00	ppm	0.00
83) Chrysene-d12	14.899	240	281119	40.00	ppm	-0.01
92) Perylene-d12	17.070	264	270700	40.00	ppm	-0.01
102) 1,4-Dichlorobenzene-d4a	5.111	152	94939	40.00	ppm	0.00
104) Acenaphthene-d10a	8.448	164	192613	40.00	ppm	0.00
106) Phenanthrene-d10a	10.673	188	302861	40.00	ppm	0.00
110) Chrysene-d12a	14.899	240	281119	40.00	ppm	-0.01
112) Naphthalene-d8a	6.282	136	349188	40.00	ppm	0.00
114) Chrysene-d12b	14.899	240	281119	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	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%			
108) o-Terphenyl	0.000	230	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
109) 1-Chlorooctadecane	0.000	57	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			

Target Compounds							Qvalue
9) Phenol	4.827	94	177786	42.24	ppm		97
12) 2-Chlorophenol	4.950	128	163809	47.15	ppm		96
19) 2-Methylphenol	5.309	108	135864	47.38	ppm		97
21) 3&4-Methylphenol	5.437	108	146134	47.10	ppm		98
29) 2-Nitrophenol	5.897	139	87147	50.00	ppm		96
30) 2,4-Dimethylphenol	5.924	107	136203	52.95	ppm		99
31) Benzoic acid	6.031	105	88791	45.32	ppm		95
33) 2,4-Dichlorophenol	6.132	162	129645	50.05	ppm		98
34) 2,6-Dichlorophenol	6.362	162	127952	50.03	ppm		97
43) 4-Chloro-3-methylphenol	6.881	107	110555	47.38	ppm		97
49) 2,4,6-Trichlorophenol	7.427	196	87990	49.42	ppm		99
50) 2,4,5-Trichlorophenol	7.475	196	87404	47.69	ppm		94
60) 2,4-Dinitrophenol	8.529	184	30346	44.80	ppm	#	84
61) 4-Nitrophenol	8.641	109	26116	47.68	ppm		95
64) 2,3,4,6-Tetrachlorophenol	8.930	232	71954	51.92	ppm		94
70) 4,6-Dinitro-2-methylph...	9.325	198	47236	46.10	ppm		99
76) Pentachlorophenol	10.395	266	52560	47.56	ppm		97

SGS ACCUTEST JC24133

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3E3699\
Data File : 3E84395.D
Acq On : 22 Jun 2016 2:17 pm
Operator : ashleyn
Sample : icv3699-50
Misc : op94630a,e3e3699
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jun 22 15:14:03 2016
Quant Method : C:\msdchem\1\METHODS\M3E3699.M
Quant Title : Semi Volatile GC/MS,zb-5msplus 30m x .25mm x .25MWed Jun 22 15:07:09 2016
QLast Update : Wed Jun 22 15:07:09 2016
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

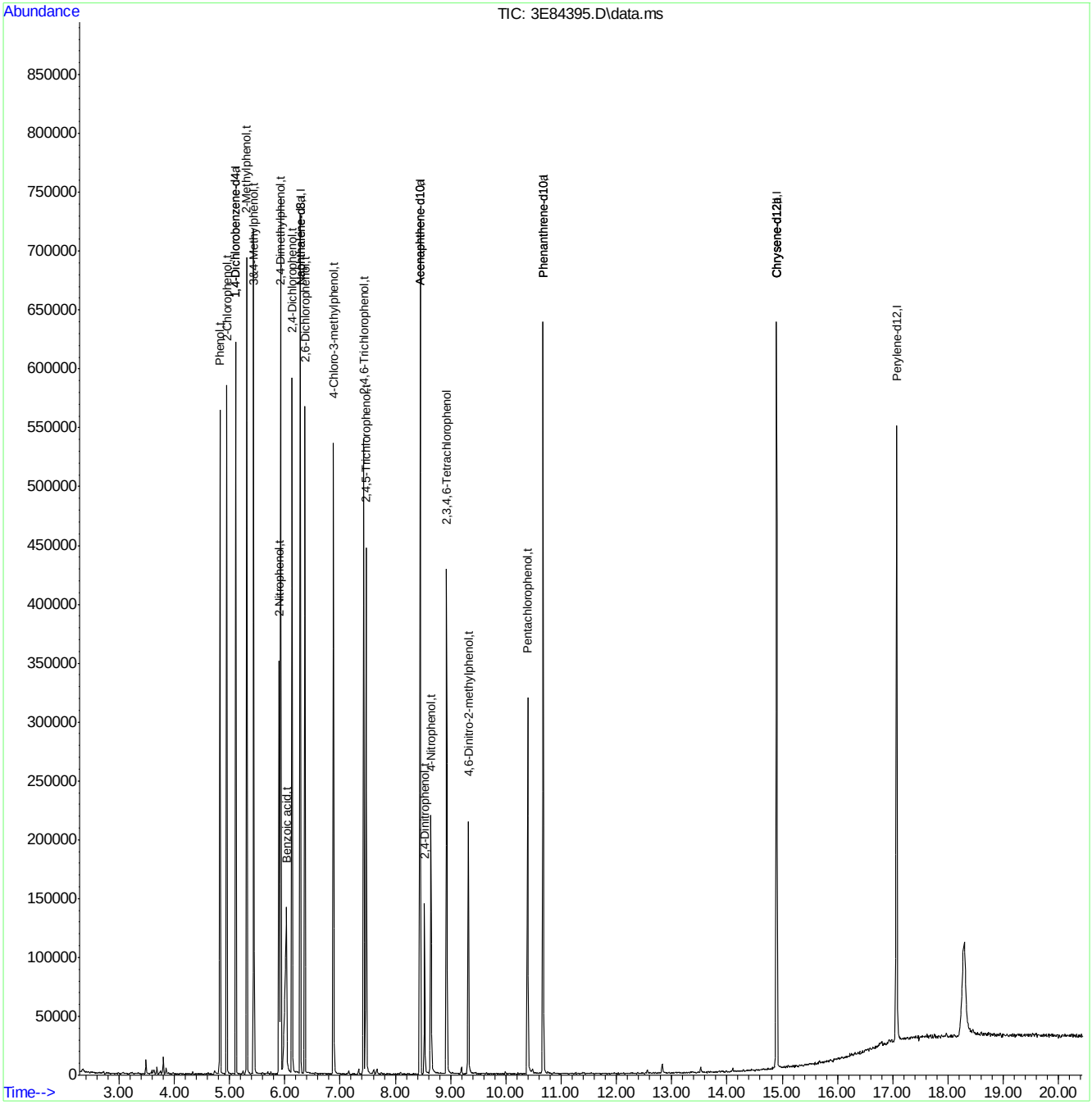
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC24133

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3E3699\
Data File : 3E84395.D
Acq On : 22 Jun 2016 2:17 pm
Operator : ashleyn
Sample : icv3699-50
Misc : op94630a,e3e3699
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jun 22 15:14:03 2016
Quant Method : C:\msdchem\1\METHODS\M3E3699.M
Quant Title : Semi Volatile GC/MS,zb-5msplus 30m x .25mm x .25MWed Jun 22 15:07:09 2016
QLast Update : Wed Jun 22 15:07:09 2016
Response via : Initial Calibration



SGS ACCUTEST JC24133

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3E3699\
Data File : 3E84396.D
Acq On : 22 Jun 2016 2:44 pm
Operator : ashleyn
Sample : icv3699-50
Misc : op94630a,e3e3699
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 22 15:15:04 2016
Quant Method : C:\msdchem\1\METHODS\M3E3699.M
Quant Title : Semi Volatile GC/MS,zb-5msplus 30m x .25mm x .25MWed Jun 22 15:07:09 2016
QLast Update : Wed Jun 22 15:07:09 2016
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.111	152	106125	40.00 ppm	0.00
24) Naphthalene-d8	6.282	136	470411	40.00 ppm	0.00
47) Acenaphthene-d10	8.448	164	286203	40.00 ppm	0.00
69) Phenanthrene-d10	10.673	188	477232	40.00 ppm	0.00
83) Chrysene-d12	14.904	240	453259	40.00 ppm	0.00
92) Perylene-d12	17.076	264	404075	40.00 ppm	0.00
102) 1,4-Dichlorobenzene-d4a	5.111	152	106125	40.00 ppm	0.00
104) Acenaphthene-d10a	8.448	164	286203	40.00 ppm	0.00
106) Phenanthrene-d10a	10.673	188	477232	40.00 ppm	0.00
110) Chrysene-d12a	14.904	240	453259	40.00 ppm	0.00
112) Naphthalene-d8a	6.282	136	470411	40.00 ppm	0.00
114) Chrysene-d12b	14.904	240	453259	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	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%
108) o-Terphenyl	0.000	230	0	0.00 ppm	
Spiked Amount 50.000			Recovery	=	0.00%
109) 1-Chlorooctadecane	0.000	57	0	0.00 ppm	
Spiked Amount 50.000			Recovery	=	0.00%

Target Compounds					Qvalue
3) Pyridine	3.094	79	176025	49.36 ppm	98
10) Aniline	4.849	93	282167	57.06 ppm	98
16) Benzyl alcohol	5.223	108	126603	55.32 ppm	97
39) 4-Chloroaniline	6.352	127	236021	47.18 ppm	97
44) 2-Methylnaphthalene	7.079	141	333984	45.74 ppm	98
54) 2-Nitroaniline	7.823	65	76717	40.23 ppm	90
58) 3-Nitroaniline	8.390	138	100557	43.77 ppm	93
62) Dibenzofuran	8.743	168	516056	44.45 ppm	100
68) 4-Nitroaniline	9.277	138	100202	42.46 ppm	98
79) Carbazole	11.059	167	530801	42.62 ppm	99

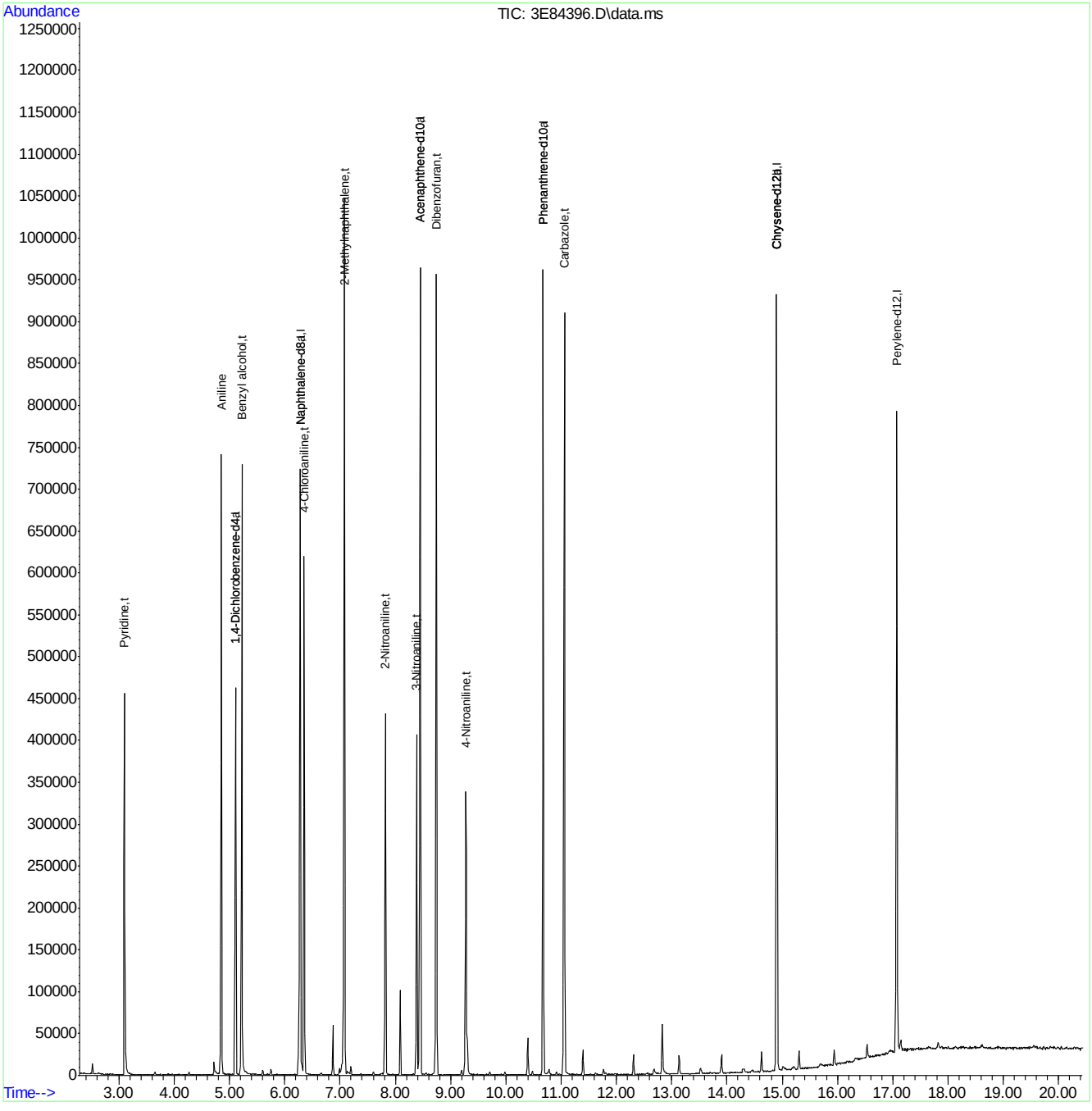
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC24133

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3E3699\
Data File : 3E84396.D
Acq On : 22 Jun 2016 2:44 pm
Operator : ashleyn
Sample : icv3699-50
Misc : op94630a,e3e3699
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 22 15:15:04 2016
Quant Method : C:\msdchem\1\METHODS\M3E3699.M
Quant Title : Semi Volatile GC/MS,zb-5msplus 30m x .25mm x .25MWed Jun 22 15:07:09 2016
QLast Update : Wed Jun 22 15:07:09 2016
Response via : Initial Calibration



M3E3699.M Wed Jun 22 15:15:11 2016 MS3E

SGS ACCUTEST JC24133

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3E3699\
Data File : 3E84397.D
Acq On : 22 Jun 2016 3:11 pm
Operator : ashleyn
Sample : icv3699-50
Misc : op94630a,e3e3699
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jun 22 16:25:57 2016
Quant Method : C:\msdchem\1\METHODS\M3E3699.M
Quant Title : Semi Volatile GC/MS,zb-5msplus 30m x .25mm x .25MWed Jun 22 15:07:09 2016
QLast Update : Wed Jun 22 15:07:09 2016
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.111	152	97068	40.00 ppm	0.00
24) Naphthalene-d8	6.282	136	364199	40.00 ppm	0.00
47) Acenaphthene-d10	8.448	164	195564	40.00 ppm	0.00
69) Phenanthrene-d10	10.674	188	307966	40.00 ppm	0.00
83) Chrysene-d12	14.899	240	287010	40.00 ppm	-0.01
92) Perylene-d12	17.070	264	277233	40.00 ppm	-0.01
102) 1,4-Dichlorobenzene-d4a	5.111	152	97068	40.00 ppm	0.00
104) Acenaphthene-d10a	8.448	164	195564	40.00 ppm	0.00
106) Phenanthrene-d10a	10.674	188	307966	40.00 ppm	0.00
110) Chrysene-d12a	14.899	240	287010	40.00 ppm	-0.01
112) Naphthalene-d8a	6.282	136	364199	40.00 ppm	0.00
114) Chrysene-d12b	14.899	240	287010	40.00 ppm	-0.01

System Monitoring Compounds					
5) 2-Fluorophenol	4.111	112	150238	49.95 ppm	0.00
Spiked Amount 50.000			Recovery = 99.90%		
8) Phenol-d5	4.817	99	168817	46.17 ppm	0.00
Spiked Amount 50.000			Recovery = 92.34%		
25) Nitrobenzene-d5	5.582	82	128629	46.31 ppm	0.00
Spiked Amount 50.000			Recovery = 92.62%		
51) 2-Fluorobiphenyl	7.529	172	330314	51.07 ppm	0.00
Spiked Amount 50.000			Recovery = 102.14%		
73) 2,4,6-Tribromophenol	9.604	330	47139	47.30 ppm	0.00
Spiked Amount 50.000			Recovery = 94.60%		
85) Terphenyl-d14	13.241	244	329450	54.52 ppm	0.00
Spiked Amount 50.000			Recovery = 109.04%		
108) o-Terphenyl	0.000	230	0	0.00 ppm	
Spiked Amount 50.000			Recovery = 0.00%		
109) 1-Chlorooctadecane	0.000	57	0	0.00 ppm	
Spiked Amount 50.000			Recovery = 0.00%		

Target Compounds	Qvalue

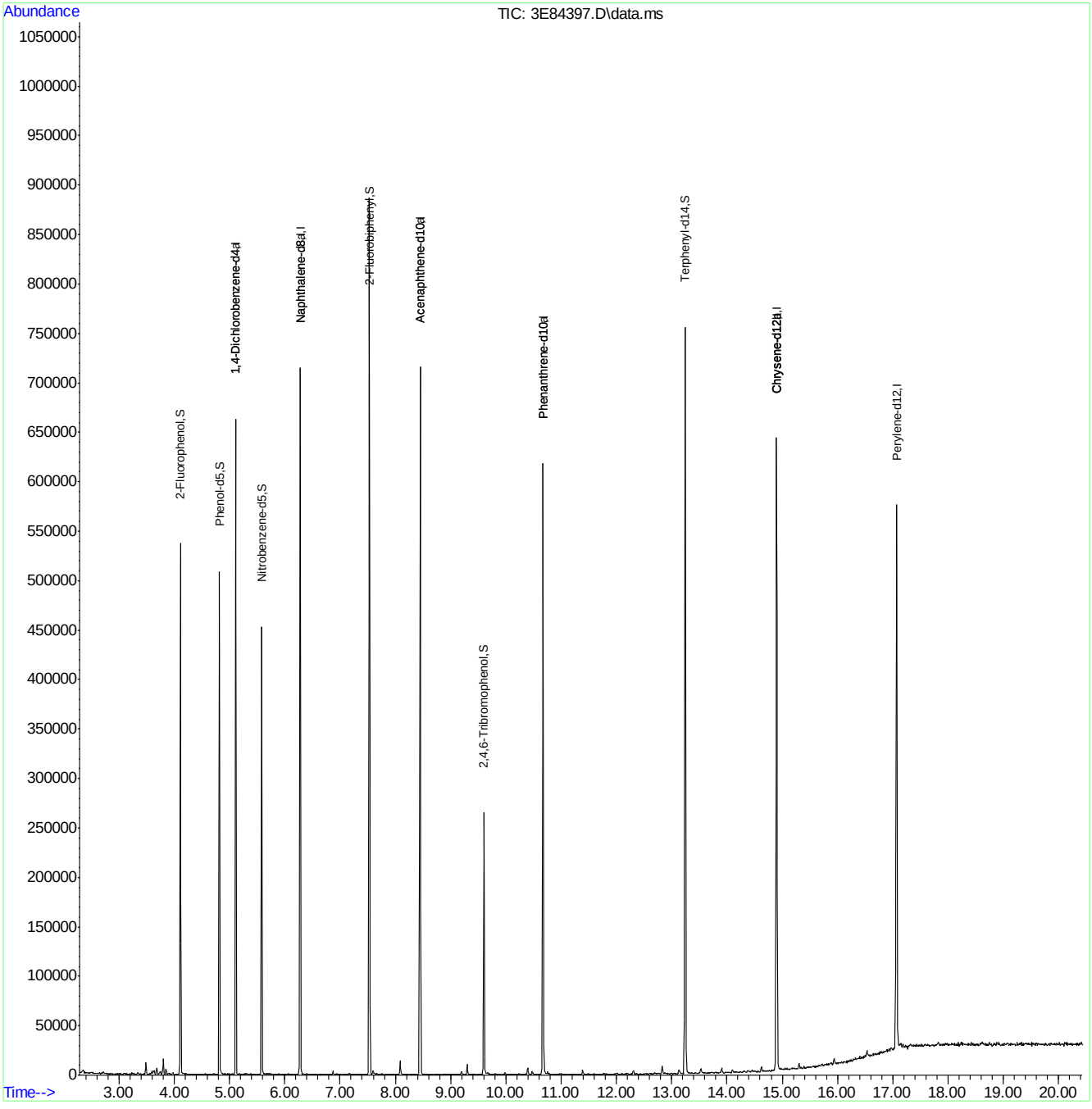
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC24133

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3E3699\
Data File : 3E84397.D
Acq On : 22 Jun 2016 3:11 pm
Operator : ashleyn
Sample : icv3699-50
Misc : op94630a,e3e3699
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jun 22 16:25:57 2016
Quant Method : C:\msdchem\1\METHODS\M3E3699.M
Quant Title : Semi Volatile GC/MS,zb-5msplus 30m x .25mm x .25MWed Jun 22 15:07:09 2016
QLast Update : Wed Jun 22 15:07:09 2016
Response via : Initial Calibration



M3E3699.M Wed Jun 22 16:26:03 2016 MS3E

SGS ACCUTEST JC24133

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3E3699\
Data File : 3E84398.D
Acq On : 22 Jun 2016 3:39 pm
Operator : ashleyn
Sample : icv3699-50
Misc : op94630a,e3e3699
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jun 22 16:40:32 2016
Quant Method : C:\msdchem\1\METHODS\M3E3699.M
Quant Title : Semi Volatile GC/MS,zb-5msplus 30m x .25mm x .25MWed Jun 22 16:35:28 2016
QLast Update : Wed Jun 22 16:35:28 2016
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.116	152	106105	40.00	ppm	0.00
24) Naphthalene-d8	6.282	136	391698	40.00	ppm	0.00
47) Acenaphthene-d10	8.448	164	211411	40.00	ppm	0.00
69) Phenanthrene-d10	10.673	188	336342	40.00	ppm	0.00
83) Chrysene-d12	14.904	240	312299	40.00	ppm	0.00
92) Perylene-d12	17.076	264	283046	40.00	ppm	0.00
102) 1,4-Dichlorobenzene-d4a	5.116	152	106105	40.00	ppm	0.00
104) Acenaphthene-d10a	8.448	164	211411	40.00	ppm	0.00
106) Phenanthrene-d10a	10.673	188	336342	40.00	ppm	0.00
110) Chrysene-d12a	14.904	240	312299	40.00	ppm	0.00
112) Naphthalene-d8a	6.282	136	391698	40.00	ppm	0.00
114) Chrysene-d12b	14.904	240	312299	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	0d	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%			
108) o-Terphenyl	0.000	230	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
109) 1-Chlorooctadecane	0.000	57	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			

Target Compounds						Qvalue
4) N-Nitrosodimethylamine	2.971	74	86534	42.29	ppm	96
11) bis(2-Chloroethyl)ether	4.886	93	151638	46.52	ppm	99
14) 1,3-Dichlorobenzene	5.068	146	196644	45.19	ppm	96
15) 1,4-Dichlorobenzene	5.127	146	206437	45.90	ppm	99
17) 1,2-Dichlorobenzene	5.255	146	187207	45.29	ppm	98
20) 2,2'-oxybis(1-Chloropr...	5.325	121	54798	42.08	ppm	88
22) n-Nitroso-di-n-propyla...	5.437	70	86960	40.43	ppm	97
23) Hexachloroethane	5.549	201	63201	46.78	ppm	88
26) Nitrobenzene	5.597	77	131496	41.62	ppm	98
28) Isophorone	5.811	82	256179	46.31	ppm	98
32) bis(2-Chloroethoxy)met...	6.009	93	164805	46.08	ppm	99
36) 1,2,4-Trichlorobenzene	6.218	180	153059	48.52	ppm	99
38) Naphthalene	6.303	128	485010	45.36	ppm	99
42) Hexachlorobutadiene	6.432	225	75895	48.51	ppm	98
48) Hexachlorocyclopentadiene	7.277	237	73706	42.56	ppm	98
52) 2-Chloronaphthalene	7.689	162	283114	47.23	ppm	99
55) Dimethylphthalate	8.069	163	288618	43.83	ppm	100
56) Acenaphthylene	8.250	152	449165	43.98	ppm	100

SGS ACCUTEST JC24133

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3E3699\
Data File : 3E84398.D
Acq On : 22 Jun 2016 3:39 pm
Operator : ashleyn
Sample : icv3699-50
Misc : op94630a,e3e3699
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jun 22 16:40:32 2016
Quant Method : C:\msdchem\1\METHODS\M3E3699.M
Quant Title : Semi Volatile GC/MS,zb-5msplus 30m x .25mm x .25MWed Jun 22 16:35:28 2016
QLast Update : Wed Jun 22 16:35:28 2016
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
57) 2,6-Dinitrotoluene	8.149	165	64198	44.37 ppm	96
59) Acenaphthene	8.496	153	293944	45.00 ppm	94
63) 2,4-Dinitrotoluene	8.721	165	73332	40.38 ppm	97
65) Diethylphthalate	9.095	149	273989	42.92 ppm	99
66) Fluorene	9.245	166	315147	44.37 ppm	98
67) 4-Chlorophenyl-phenyle...	9.251	204	152904	45.56 ppm	97
71) n-Nitrosodiphenylamine	9.427	169	195307	43.81 ppm	98
72) 1,2-Diphenylhydrazine	9.491	77	236053	42.21 ppm	93
74) 4-Bromophenyl-phenylether	9.994	248	87767	49.00 ppm	96
75) Hexachlorobenzene	10.090	284	102030	46.65 ppm	97
77) Phenanthrene	10.711	178	414527	44.20 ppm	99
78) Anthracene	10.791	178	404142	43.00 ppm	99
80) Di-n-butylphthalate	11.663	149	454339	42.56 ppm	99
81) Fluoranthene	12.599	202	413753	42.26 ppm	98
84) Pyrene	12.957	202	427809	45.61 ppm	98
86) Butylbenzylphthalate	14.064	149	184339	43.39 ppm	95
88) Benzo[a]anthracene	14.888	228	396216	43.46 ppm	98
90) Chrysene	14.947	228	354551	42.83 ppm	98
91) bis(2-Ethylhexyl)phtha...	15.022	149	255098	43.41 ppm	99
93) Di-n-octylphthalate	16.011	149	428688	41.29 ppm	98
94) Benzo[b]fluoranthene	16.509	252	383123	40.27 ppm	93
95) Benzo[k]fluoranthene	16.551	252	367250	44.21 ppm	100
96) Benzo[a]pyrene	16.985	252	337091	43.28 ppm	99
97) Indeno[1,2,3-cd]pyrene	18.921	276	365872	44.78 ppm	97
99) Dibenz[a,h]anthracene	18.964	278	349377	42.84 ppm	98
101) Benzo[g,h,i]perylene	19.461	276	333599	42.92 ppm	98

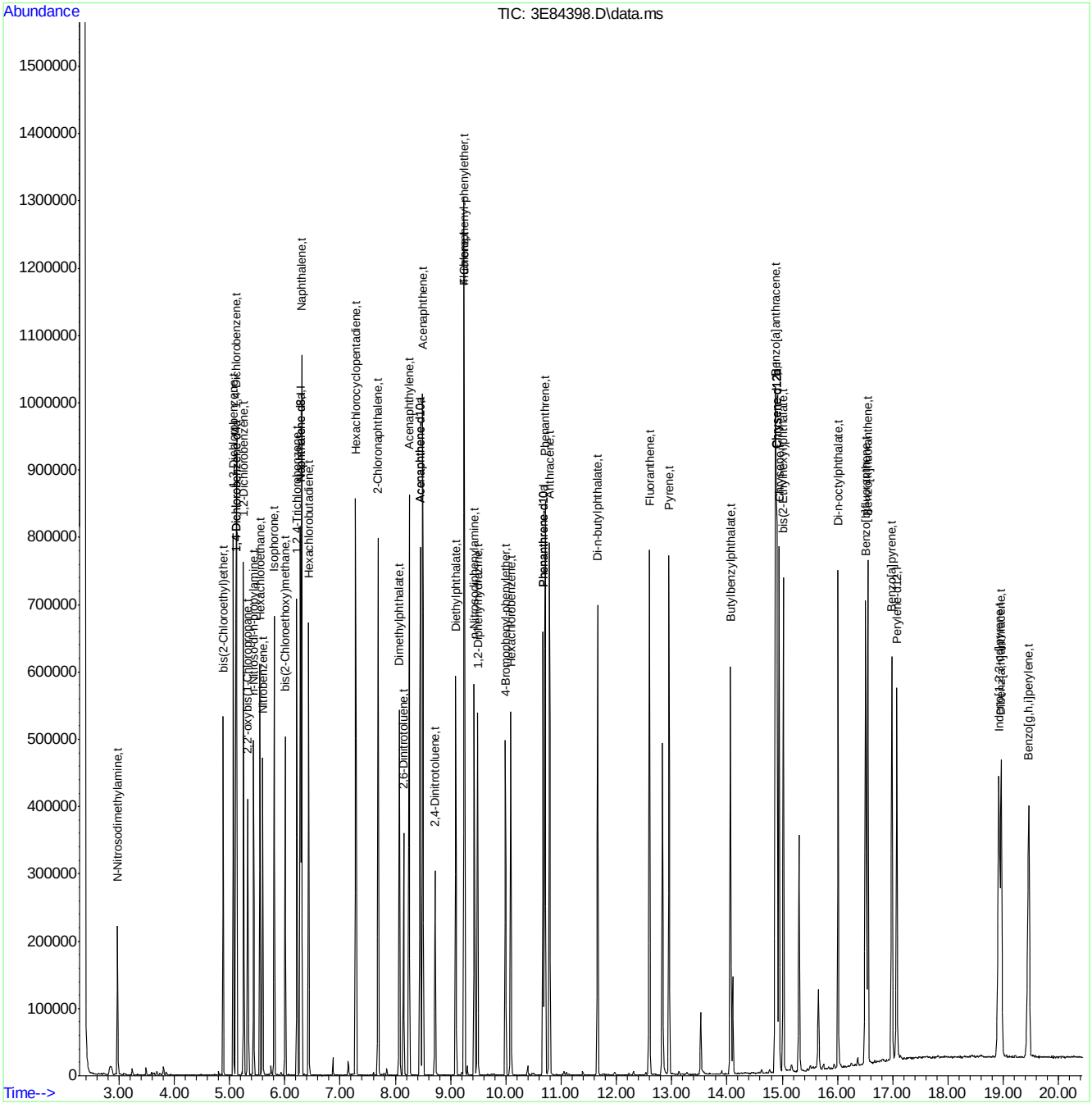
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC24133

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3E3699\
Data File : 3E84398.D
Acq On : 22 Jun 2016 3:39 pm
Operator : ashleyn
Sample : icv3699-50
Misc : op94630a,e3e3699
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jun 22 16:40:32 2016
Quant Method : C:\msdchem\1\METHODS\M3E3699.M
Quant Title : Semi Volatile GC/MS,zb-5msplus 30m x .25mm x .25MWed Jun 22 16:35:28 2016
QLast Update : Wed Jun 22 16:35:28 2016
Response via : Initial Calibration



SGS ACCUTEST JC24133

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3E3699\
Data File : 3E84400.D
Acq On : 22 Jun 2016 4:33 pm
Operator : ashleyn
Sample : icv3699-50
Misc : op94630a,e3e3699
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Jun 22 16:57:16 2016
Quant Method : C:\msdchem\1\METHODS\M3E3699.M
Quant Title : Semi Volatile GC/MS,zb-5msplus 30m x .25mm x .25MWed Jun 22 16:35:28 2016
QLast Update : Wed Jun 22 16:35:28 2016
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.111	152	105378	40.00	ppm	0.00
24) Naphthalene-d8	6.282	136	406736	40.00	ppm	0.00
47) Acenaphthene-d10	8.448	164	237984	40.00	ppm	0.00
69) Phenanthrene-d10	10.673	188	404763	40.00	ppm	0.00
83) Chrysene-d12	14.899	240	417057	40.00	ppm	-0.01
92) Perylene-d12	17.076	264	407916	40.00	ppm	0.00
102) 1,4-Dichlorobenzene-d4a	5.111	152	105378	40.00	ppm	0.00
104) Acenaphthene-d10a	8.448	164	237984	40.00	ppm	0.00
106) Phenanthrene-d10a	10.673	188	404763	40.00	ppm	0.00
110) Chrysene-d12a	14.899	240	417057	40.00	ppm	-0.01
112) Naphthalene-d8a	6.282	136	406736	40.00	ppm	0.00
114) Chrysene-d12b	14.899	240	417057	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	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%	
108) o-Terphenyl	0.000	230	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
109) 1-Chlorooctadecane	0.000	57	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	

Target Compounds						Qvalue
89) 3,3'-Dichlorobenzidine	14.872	252	223625	45.18	ppm	100

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

7.6.13

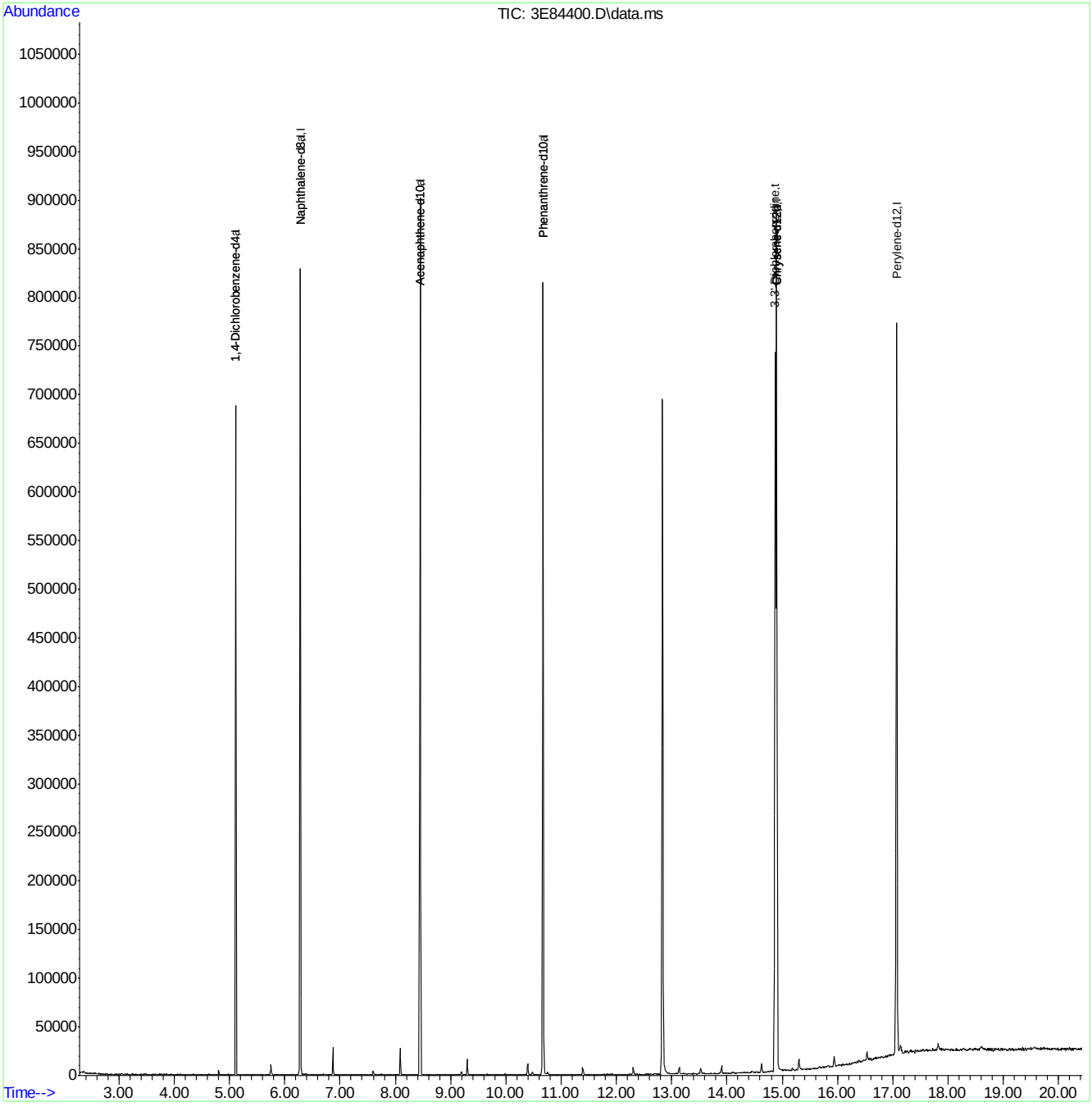
7

SGS ACCUTEST JC24133

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3E3699\
Data File : 3E84400.D
Acq On : 22 Jun 2016 4:33 pm
Operator : ashleyn
Sample : icv3699-50
Misc : op94630a,e3e3699
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Jun 22 16:57:16 2016
Quant Method : C:\msdchem\1\METHODS\M3E3699.M
Quant Title : Semi Volatile GC/MS,zb-5msplus 30m x .25mm x .25MWed Jun 22 16:35:28 2016
QLast Update : Wed Jun 22 16:35:28 2016
Response via : Initial Calibration



M3E3699.M Wed Jun 22 16:57:24 2016 MS3E Page: 2

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3E3700\
Data File : 3E84417.D
Acq On : 22 Jun 2016 11:01 pm
Operator : seanb1
Sample : icv3699-50
Misc : op94630a,e3e3700
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 23 10:10:38 2016
Quant Method : C:\msdchem\1\METHODS\M3E3699.M
Quant Title : Semi Volatile GC/MS,zb-5msplus 30m x .25mm x .25MThu Jun 23 10:08:02 2016
QLast Update : Thu Jun 23 10:08:02 2016
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.111	152	98447	40.00	ppm	0.00
24) Naphthalene-d8	6.282	136	421887	40.00	ppm	0.00
47) Acenaphthene-d10	8.448	164	196091	40.00	ppm	0.00
69) Phenanthrene-d10	10.668	188	314779	40.00	ppm	-0.01
83) Chrysene-d12	14.899	240	292090	40.00	ppm	-0.01
92) Perylene-d12	17.070	264	251748	40.00	ppm	-0.01
102) 1,4-Dichlorobenzene-d4a	5.111	152	98447	40.00	ppm	0.00
104) Acenaphthene-d10a	8.448	164	196091	40.00	ppm	0.00
106) Phenanthrene-d10a	10.668	188	314779	40.00	ppm	0.00
110) Chrysene-d12a	14.899	240	292090	40.00	ppm	0.00
112) Naphthalene-d8a	6.282	136	421887	40.00	ppm	0.00
114) Chrysene-d12b	14.899	240	292090	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	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%			
108) o-Terphenyl	0.000	230	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
109) 1-Chlorooctadecane	0.000	57	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			

Target Compounds						Qvalue
2) 1,4-Dioxane	2.698	88	69044	52.97	ppm	97
6) Indene	5.330	116	323420	53.49	ppm	98
7) Cumene	4.496	105	413487	53.26	ppm	100
13) Decane	4.972	43	156192	51.52	ppm	99
18) Acetophenone	5.442	105	215700	47.91	ppm	94
27) Quinoline	6.656	129	254042	34.29	ppm	99
40) 2,3-Dichloroaniline	7.421	161	128082	34.31	ppm	98
41) Caprolactam	6.710	55	56278	38.26	ppm	97
45) 1-Methylnaphthalene	7.202	141	303001	44.62	ppm	99
46) Dimethylnaphthalene	7.871	156	305990	46.20	ppm	99
53) Biphenyl	7.662	154	418106	54.36	ppm	97
82) Octadecane	10.582	57	171356	51.07	ppm	95
100) 7,12-Dimethylbenz(a)an...	16.503	256	237244	63.05	ppm	96

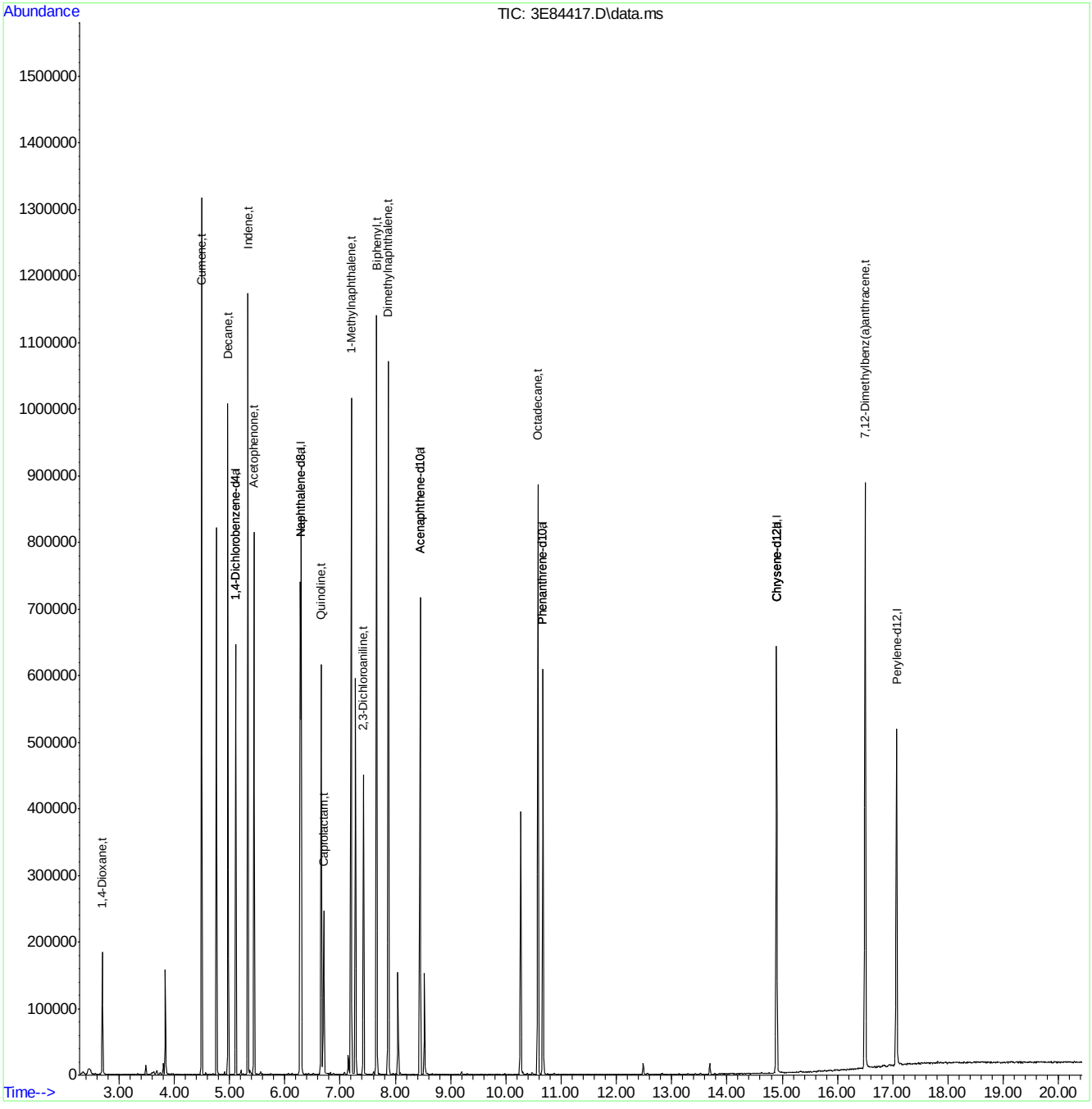
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC24133

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3E3700\
Data File : 3E84417.D
Acq On : 22 Jun 2016 11:01 pm
Operator : seanb1
Sample : icv3699-50
Misc : op94630a,e3e3700
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 23 10:10:38 2016
Quant Method : C:\msdchem\1\METHODS\M3E3699.M
Quant Title : Semi Volatile GC/MS,zb-5msplus 30m x .25mm x .25MThu Jun 23 10:08:02 2016
QLast Update : Thu Jun 23 10:08:02 2016
Response via : Initial Calibration



M3E3699.M Thu Jun 23 10:10:45 2016 MS3E Page: 2

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3E3739\
Data File : 3E85304.D
Acq On : 19 Jul 2016 12:56 pm
Operator : ashleyn
Sample : cc3699-25
Misc : op95610,e3e3739
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 19 16:21:12 2016
Quant Method : C:\msdchem\1\METHODS\M3E3699.M
Quant Title : Semi Volatile GC/MS,zb-5msplus 30m x .25mm x .25MFri Jul 15 16:43:26 2016
QLast Update : Fri Jul 15 16:43:26 2016
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.036	152	100653	40.00	ppm	0.05
24) Naphthalene-d8	6.191	136	385513	40.00	ppm	0.06
47) Acenaphthene-d10	8.352	164	242243	40.00	ppm	0.07
69) Phenanthrene-d10	10.582	188	426160	40.00	ppm	0.09
83) Chrysene-d12	14.829	240	440672	40.00	ppm	0.10
92) Perylene-d12	17.011	264	359745	40.00	ppm	0.12
102) 1,4-Dichlorobenzene-d4a	5.036	152	100653	40.00	ppm	0.05
104) Acenaphthene-d10a	8.352	164	242243	40.00	ppm	0.07
106) Phenanthrene-d10a	10.582	188	426160	40.00	ppm	0.09
108) Chrysene-d12a	14.829	240	440672	40.00	ppm	0.10
110) Naphthalene-d8a	6.191	136	385513	40.00	ppm	0.06

System Monitoring Compounds						
5) 2-Fluorophenol	4.062	112	70477	22.59	ppm	0.06
Spiked Amount 50.000			Recovery = 45.18%			
8) Phenol-d5	4.774	99	90103	23.76	ppm	0.08
Spiked Amount 50.000			Recovery = 47.52%			
25) Nitrobenzene-d5	5.507	82	79811	27.14	ppm	0.06
Spiked Amount 50.000			Recovery = 54.28%			
51) 2-Fluorobiphenyl	7.432	172	206374	25.76	ppm	0.06
Spiked Amount 50.000			Recovery = 51.52%			
73) 2,4,6-Tribromophenol	9.518	330	28245	20.48	ppm	0.07
Spiked Amount 50.000			Recovery = 40.96%			
85) Terphenyl-d14	13.144	244	231053	24.90	ppm	0.06
Spiked Amount 50.000			Recovery = 49.80%			

Target Compounds							Qvalue
2) 1,4-Dioxane	2.613	88	29130	21.86	ppm		95
3) Pyridine	2.950	79	78470	23.20	ppm		91
4) N-Nitrosodimethylamine	2.907	74	42159	21.72	ppm		75
6) Indene	5.250	116	158193	25.59	ppm		99
7) Cumene	4.415	105	200707	25.29	ppm		97
9) Phenol	4.784	94	112183	25.14	ppm		82
10) Aniline	4.779	93	119658	25.51	ppm		67
11) bis(2-Chloroethyl)ether	4.817	93	73130	23.65	ppm		96
12) 2-Chlorophenol	4.886	128	94802	25.74	ppm		98
13) Decane	4.886	43	63707	20.55	ppm		96
14) 1,3-Dichlorobenzene	4.993	146	103135	24.98	ppm		97
15) 1,4-Dichlorobenzene	5.052	146	107196	25.13	ppm		99
16) Benzyl alcohol	5.154	108	55456	25.55	ppm		76
17) 1,2-Dichlorobenzene	5.180	146	98350	25.08	ppm		97
18) Acetophenone	5.373	105	116816	25.38	ppm		100
19) 2-Methylphenol	5.255	108	75756	24.92	ppm		98
20) 2,2'-oxybis(1-Chloropr...	5.244	121	29999	24.28	ppm	#	69
21) 3&4-Methylphenol	5.383	108	81509	24.78	ppm		99
22) n-Nitroso-di-n-propyla...	5.362	70	51870	25.42	ppm		98
23) Hexachloroethane	5.464	201	38224	29.83	ppm		92
26) Nitrobenzene	5.523	77	82529	26.54	ppm		89
27) Quinoline	6.576	129	181524	26.81	ppm		95
28) Isophorone	5.731	82	138218	25.39	ppm		97

SGS ACCUTEST JC24133

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3E3739\
Data File : 3E85304.D
Acq On : 19 Jul 2016 12:56 pm
Operator : ashleyn
Sample : cc3699-25
Misc : op95610,e3e3739
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 19 16:21:12 2016
Quant Method : C:\msdchem\1\METHODS\M3E3699.M
Quant Title : Semi Volatile GC/MS,zb-5msplus 30m x .25mm x .25MFri Jul 15 16:43:26 2016
QLast Update : Fri Jul 15 16:43:26 2016
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
29) 2-Nitrophenol	5.817	139	56121	29.16	ppm		71
30) 2,4-Dimethylphenol	5.854	107	80216	28.25	ppm		95
31) Benzoic acid	5.977	105	61092	28.24	ppm		93
32) bis(2-Chloroethoxy)met...	5.924	93	82958	23.57	ppm		99
33) 2,4-Dichlorophenol	6.068	162	82991	29.02	ppm		99
34) 2,6-Dichlorophenol	6.282	162	80964	28.67	ppm		100
35) 1,3,5-Trichlorobenzene	5.827	180	94169	28.20	ppm		96
36) 1,2,4-Trichlorobenzene	6.132	180	87029	28.03	ppm		96
37) 1,2,3-Trichlorobenzene	6.368	180	88001	29.05	ppm		100
38) Naphthalene	6.213	128	255648	24.29	ppm		99
39) 4-Chloroaniline	6.271	127	112948	27.55	ppm		96
40) 2,3-Dichloroaniline	7.336	161	101225	29.68	ppm		95
41) Caprolactam	6.662	55	28154	20.95	ppm		84
42) Hexachlorobutadiene	6.330	225	51088	33.17	ppm		100
43) 4-Chloro-3-methylphenol	6.833	107	72191	28.02	ppm		98
44) 2-Methylnaphthalene	6.983	141	174258	29.12	ppm		93
45) 1-Methylnaphthalene	7.106	141	174739	28.16	ppm		97
46) Dimethylnaphthalene	7.774	156	177597	29.34	ppm		95
48) Hexachlorocyclopentadiene	7.175	237	27773	13.99	ppm		65
49) 2,4,6-Trichlorophenol	7.352	196	61872	27.63	ppm		98
50) 2,4,5-Trichlorophenol	7.416	196	65968	28.62	ppm		95
52) 2-Chloronaphthalene	7.598	162	172517	25.12	ppm		97
53) Biphenyl	7.566	154	237350	24.98	ppm		100
54) 2-Nitroaniline	7.742	65	49891	30.91	ppm		96
55) Dimethylphthalate	7.972	163	204115	27.05	ppm		99
56) Acenaphthylene	8.154	152	288779	24.68	ppm		99
57) 2,6-Dinitrotoluene	8.069	165	48953	29.53	ppm		98
58) 3-Nitroaniline	8.315	138	57180	29.41	ppm		98
59) Acenaphthene	8.395	153	184936	24.71	ppm		96
60) 2,4-Dinitrophenol	8.496	184	49319	56.15	ppm	#	81
61) 4-Nitrophenol	8.652	109	18874	27.40	ppm	#	1
62) Dibenzofuran	8.646	168	276326	28.12	ppm		89
63) 2,4-Dinitrotoluene	8.662	165	69036	33.18	ppm		97
64) 2,3,4,6-Tetrachlorophenol	8.855	232	44258	25.39	ppm		97
65) Diethylphthalate	8.988	149	200279	27.38	ppm		100
66) Fluorene	9.149	166	214354	26.34	ppm		100
67) 4-Chlorophenyl-phenyle...	9.144	204	107246	27.89	ppm		94
68) 4-Nitroaniline	9.213	138	55949	28.01	ppm		81
70) 4,6-Dinitro-2-methylph...	9.283	198	41338	29.93	ppm		90
71) n-Nitrosodiphenylamine	9.331	169	147235	26.07	ppm		98
72) 1,2-Diphenylhydrazine	9.390	77	160097	22.60	ppm		93
74) 4-Bromophenyl-phenylether	9.887	248	60615	26.71	ppm		96
75) Hexachlorobenzene	9.999	284	64827	23.39	ppm		91
76) Pentachlorophenol	10.331	266	52373	35.21	ppm		98
77) Phenanthrene	10.614	178	299573	25.21	ppm		99
78) Anthracene	10.700	178	308252	25.88	ppm		99
79) Carbazole	10.973	167	285796	25.70	ppm		99
80) Di-n-butylphthalate	11.550	149	341097	25.22	ppm		99
81) Fluoranthene	12.508	202	347343	28.00	ppm		93
82) Octadecane	10.459	57	84089	18.51	ppm		89

SGS ACCUTEST JC24133

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3E3739\
Data File : 3E85304.D
Acq On : 19 Jul 2016 12:56 pm
Operator : ashleyn
Sample : cc3699-25
Misc : op95610,e3e3739
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 19 16:21:12 2016
Quant Method : C:\msdchem\1\METHODS\M3E3699.M
Quant Title : Semi Volatile GC/MS,zb-5msplus 30m x .25mm x .25MFri Jul 15 16:43:26 2016
QLast Update : Fri Jul 15 16:43:26 2016
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
84) Pyrene	12.866	202	359933	27.19 ppm	99
86) Butylbenzylphthalate	13.952	149	154555	25.78 ppm	98
88) Benzo[a]anthracene	14.813	228	337495	26.24 ppm	98
89) 3,3'-Dichlorobenzidine	14.786	252	130035	24.86 ppm	99
90) Chrysene	14.867	228	310262	26.56 ppm	99
91) bis(2-Ethylhexyl)phtha...	14.904	149	212105	25.58 ppm	99
93) Di-n-octylphthalate	15.894	149	366164	27.75 ppm	99
94) Benzo[b]fluoranthene	16.450	252	319122	26.39 ppm	93
95) Benzo[k]fluoranthene	16.487	252	284191	26.91 ppm	97
96) Benzo[a]pyrene	16.926	252	264940	26.77 ppm	95
97) Indeno[1,2,3-cd]pyrene	18.867	276	292791	28.20 ppm	94
98) Dibenz(a,h)acridine	18.413	279	222767	23.37 ppm	98
99) Dibenz[a,h]anthracene	18.883	278	233738	22.55 ppm	97
100) 7,12-Dimethylbenz(a)an...	16.423	256	152673	28.39 ppm	89
101) Benzo[g,h,i]perylene	19.408	276	233865	23.67 ppm	93

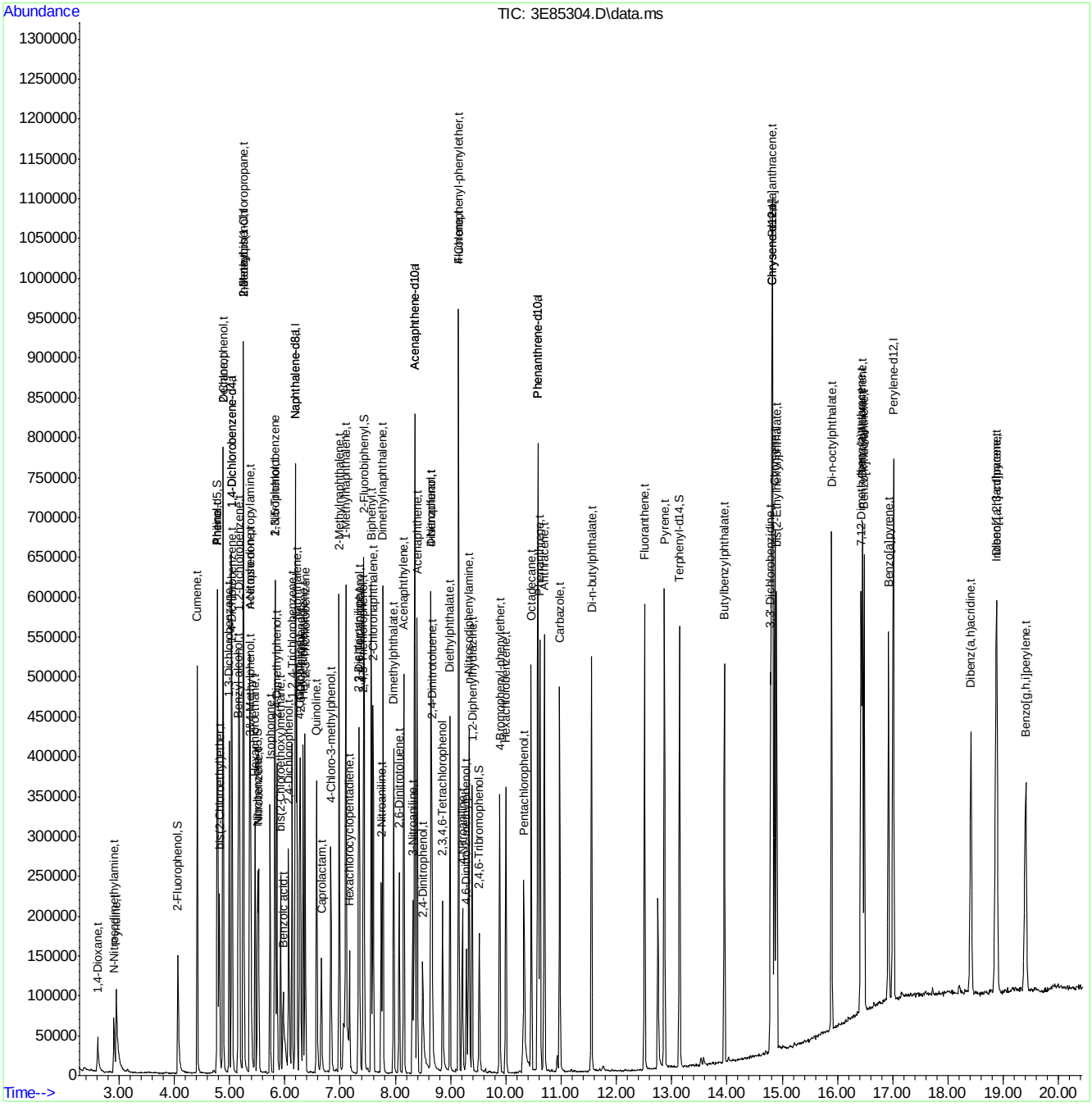
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC24133

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3E3739\
Data File : 3E85304.D
Acq On : 19 Jul 2016 12:56 pm
Operator : ashleyn
Sample : cc3699-25
Misc : op95610,e3e3739
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 19 16:21:12 2016
Quant Method : C:\msdchem\1\METHODS\M3E3699.M
Quant Title : Semi Volatile GC/MS,zb-5msplus 30m x .25mm x .25MFri Jul 15 16:43:26 2016
QLast Update : Fri Jul 15 16:43:26 2016
Response via : Initial Calibration



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 JC24133

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

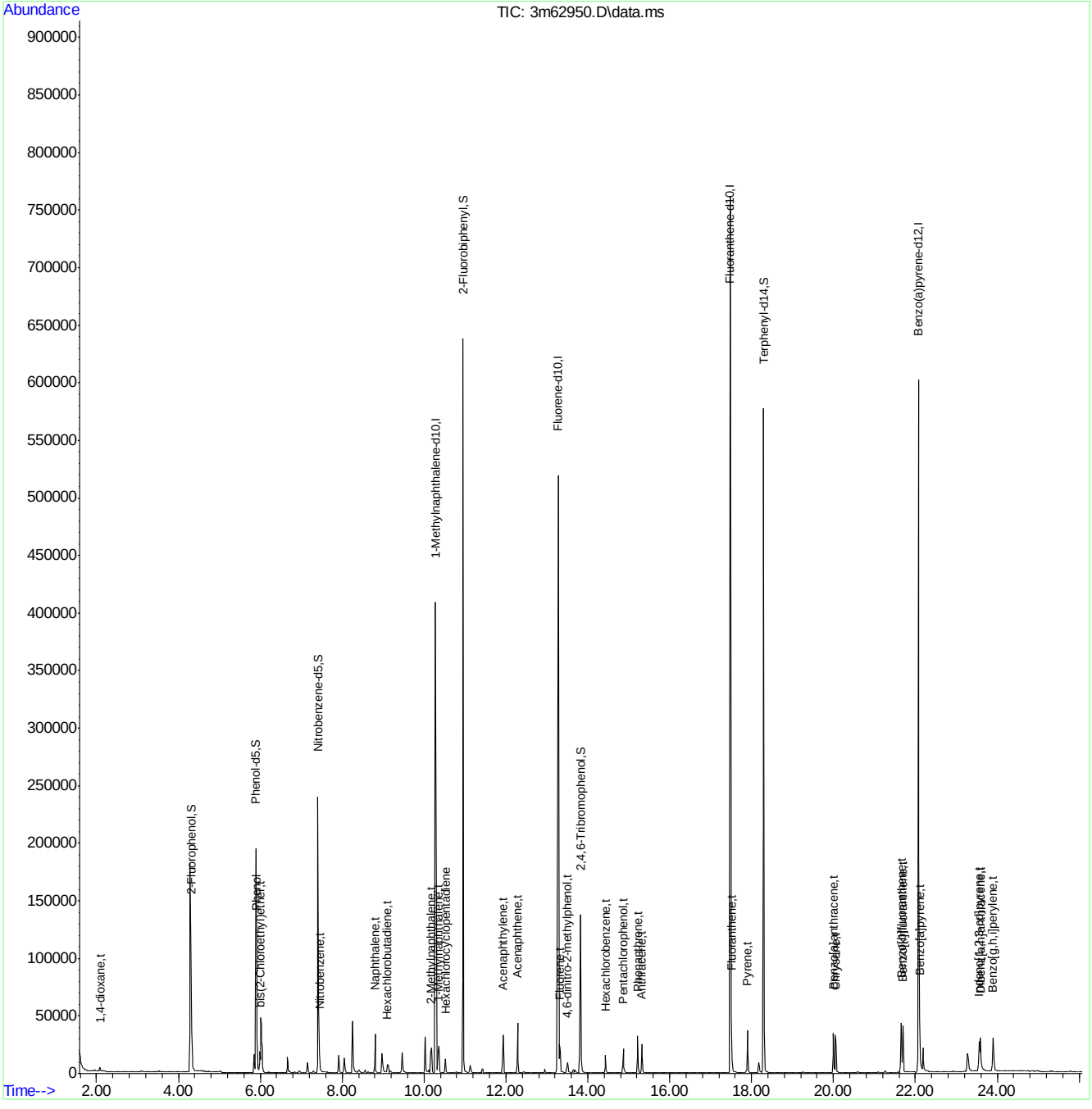
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

(#) = 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

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 JC24133

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)

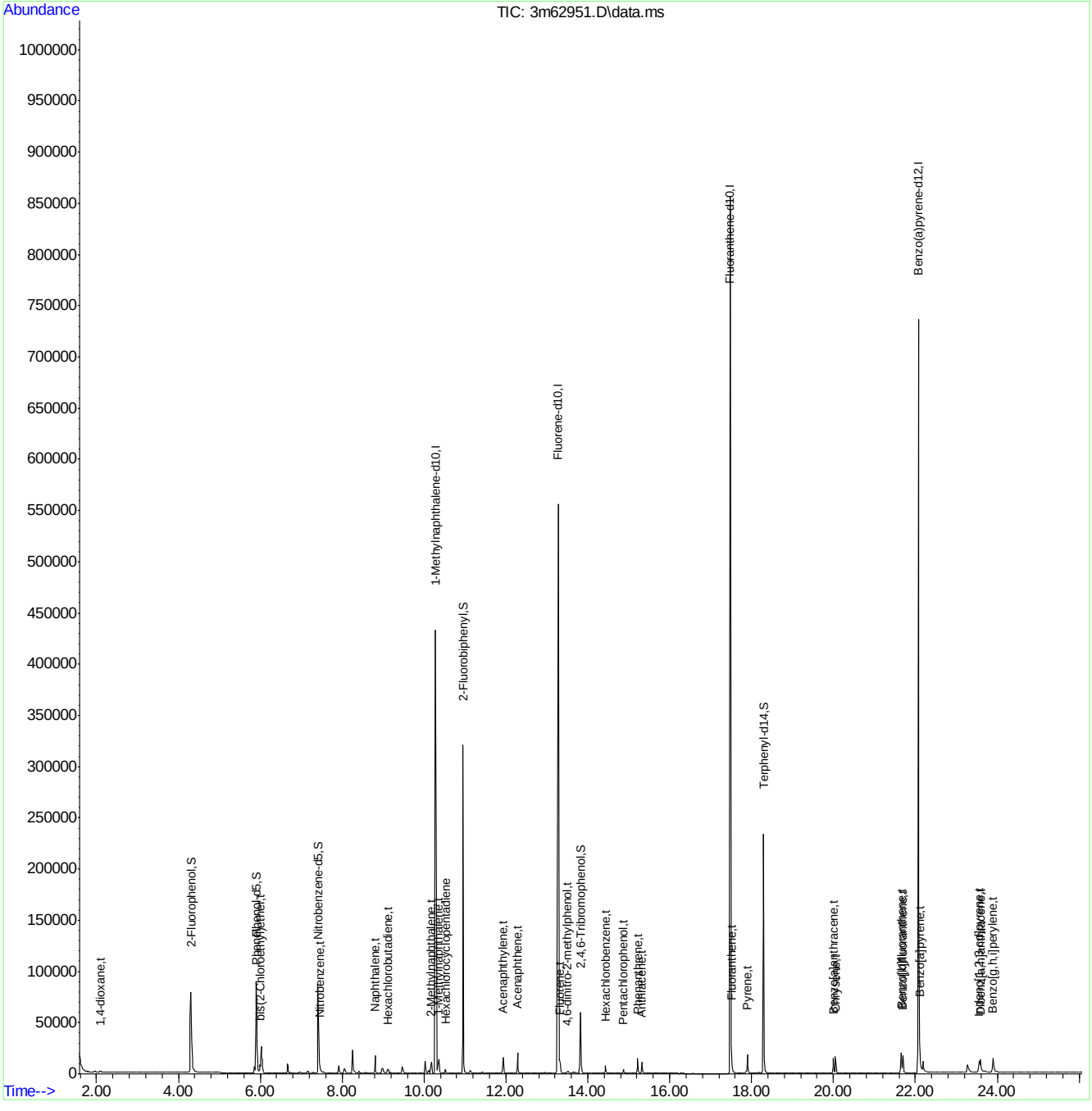
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC24133

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



SGS ACCUTEST JC24133

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 JC24133

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

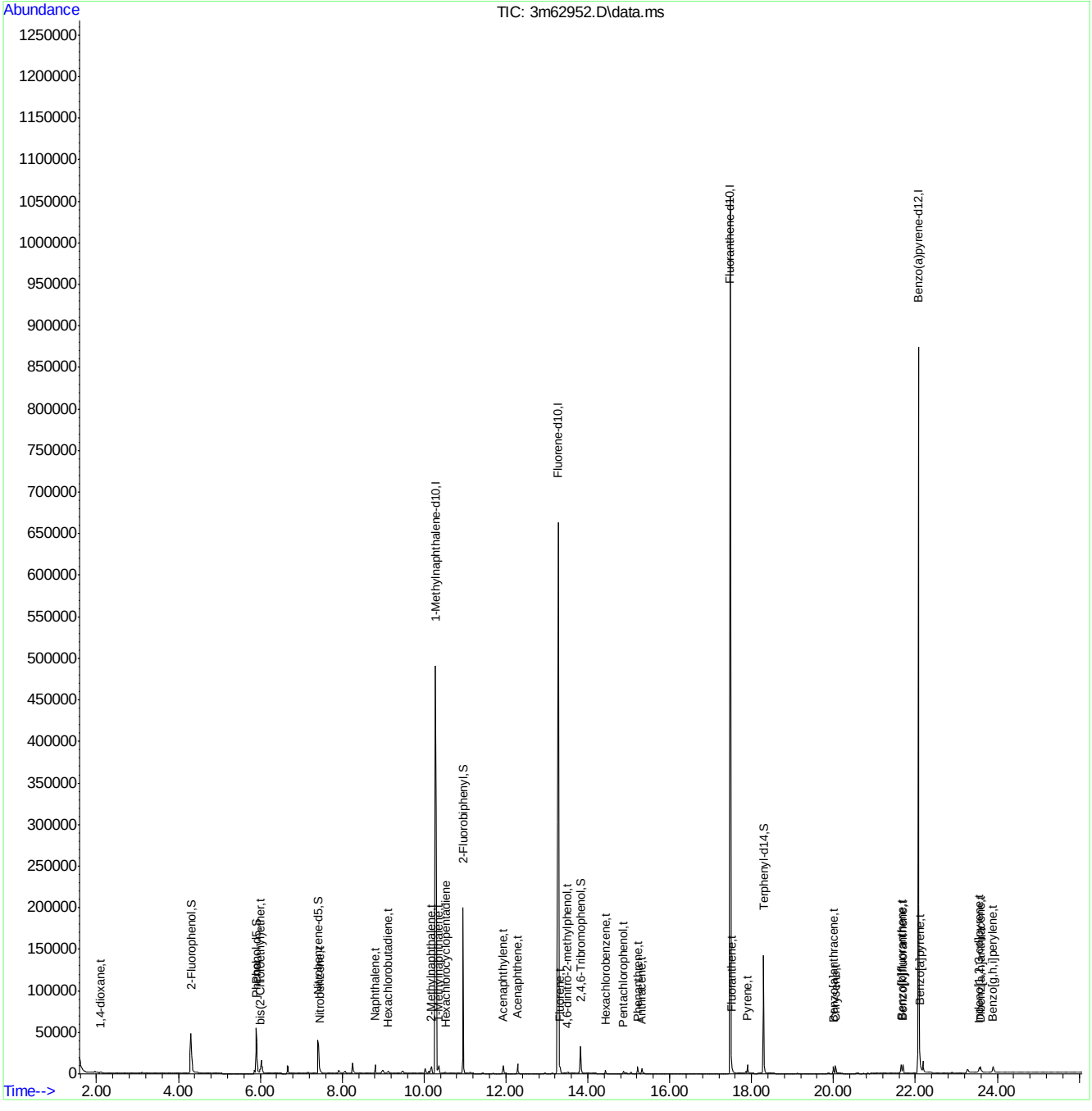
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

(#) = 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 JC24133

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

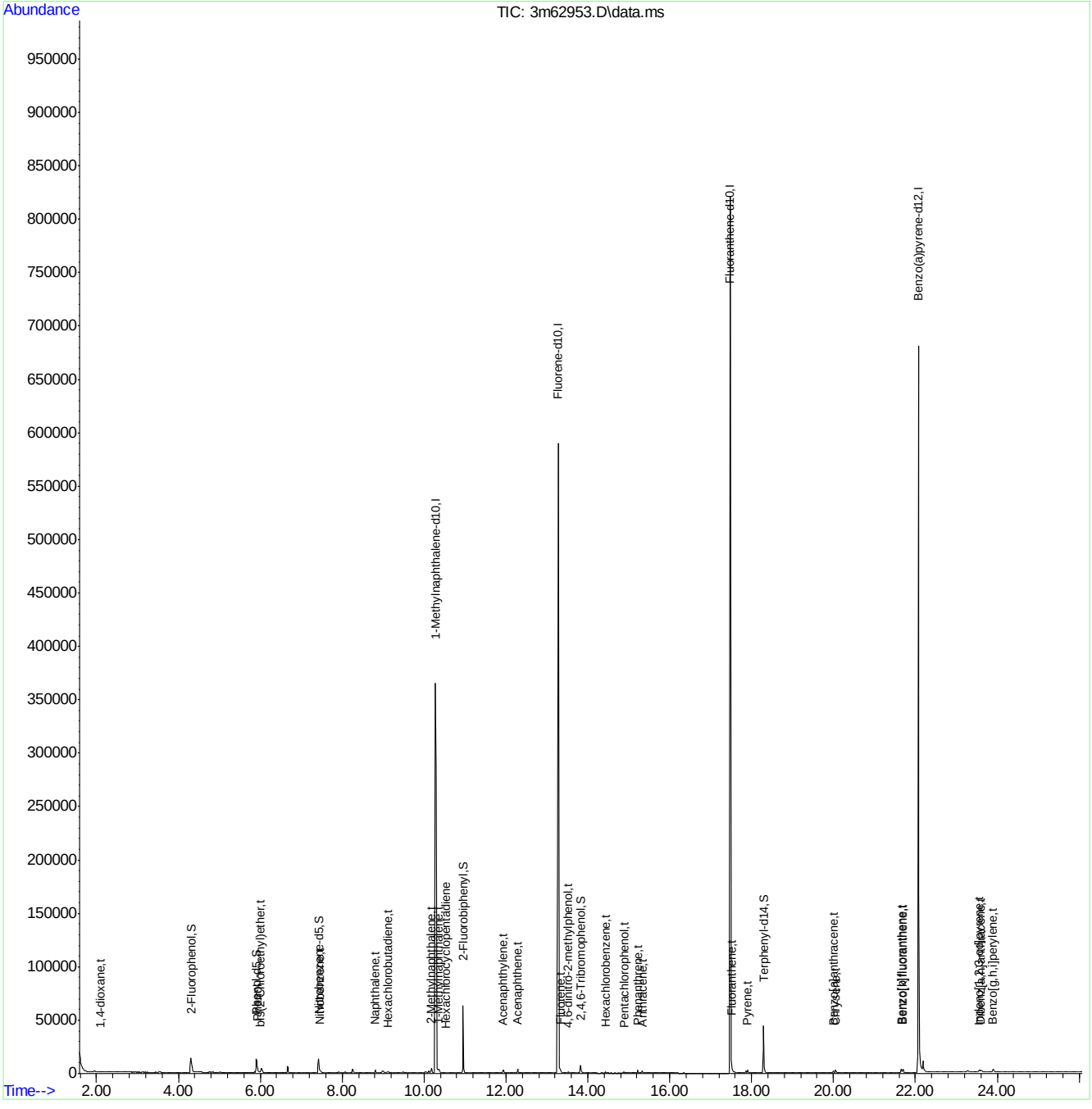
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC24133

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 JC24133

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

7.6.20

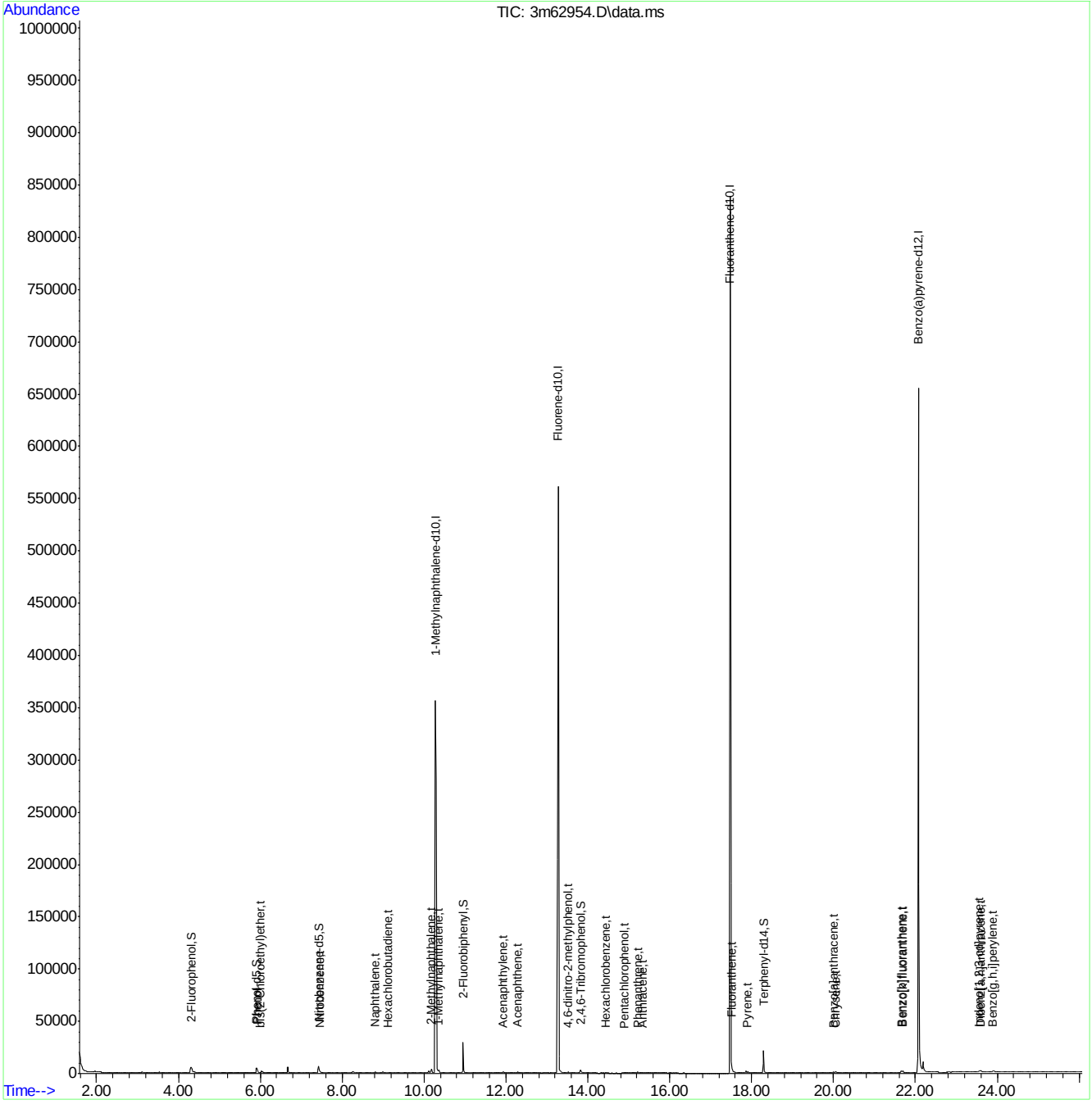
7

SGS ACCUTEST JC24133

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 JC24133

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 JC24133

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

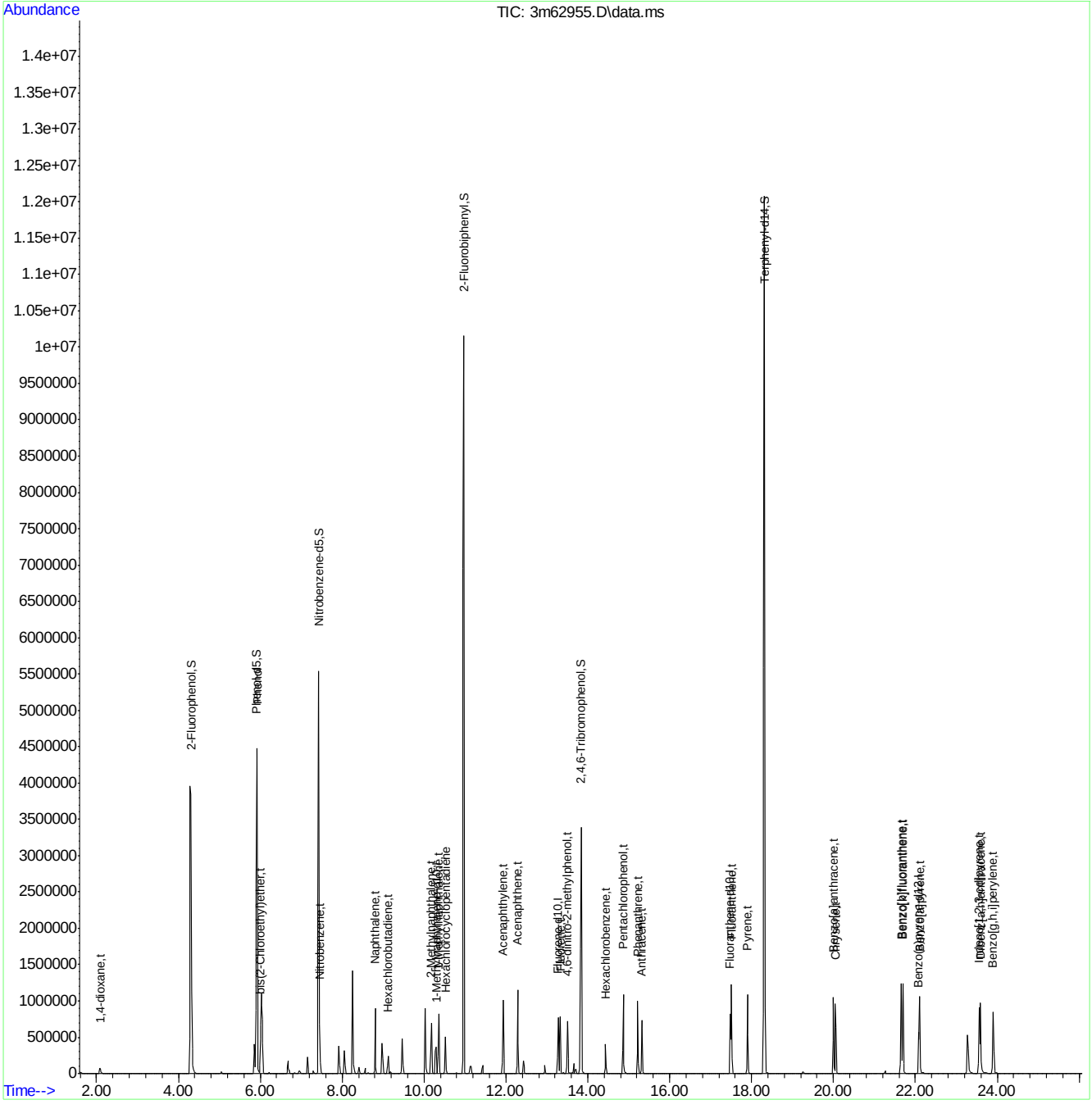
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

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 JC24133

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 JC24133

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

7.6.22

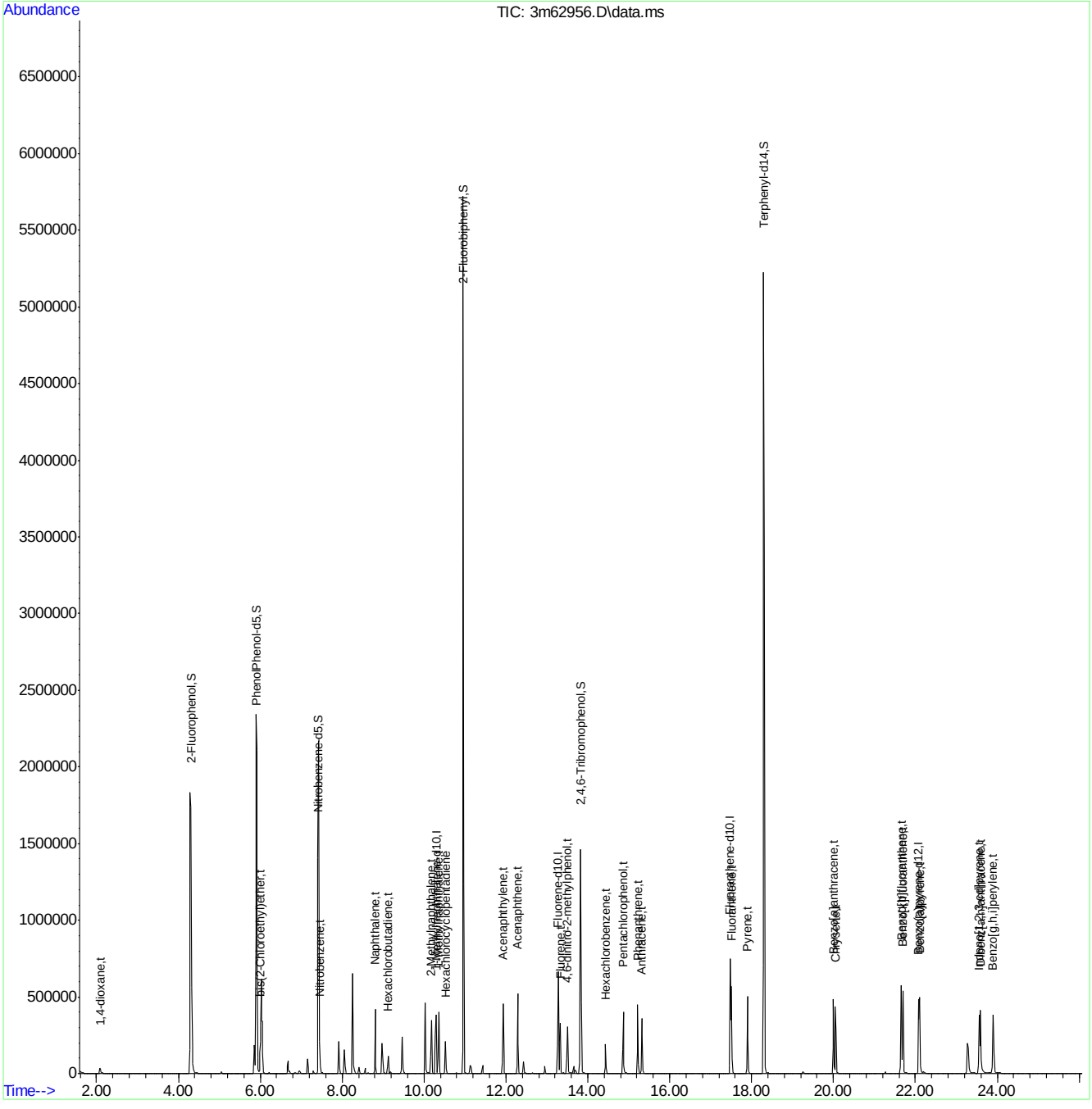
7

SGS ACCUTEST JC24133

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 JC24133

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

7.6.23

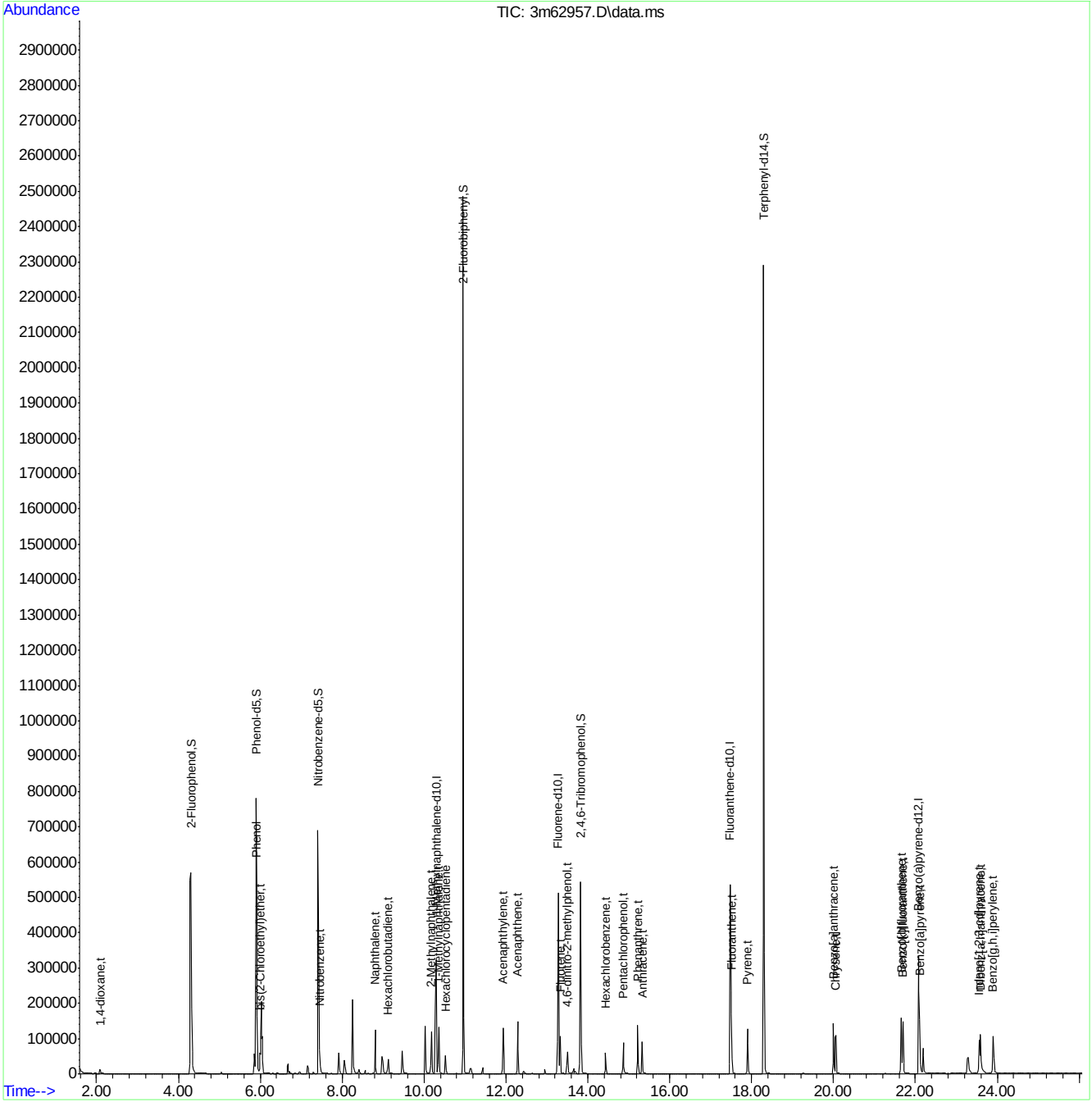
7

SGS ACCUTEST JC24133

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)

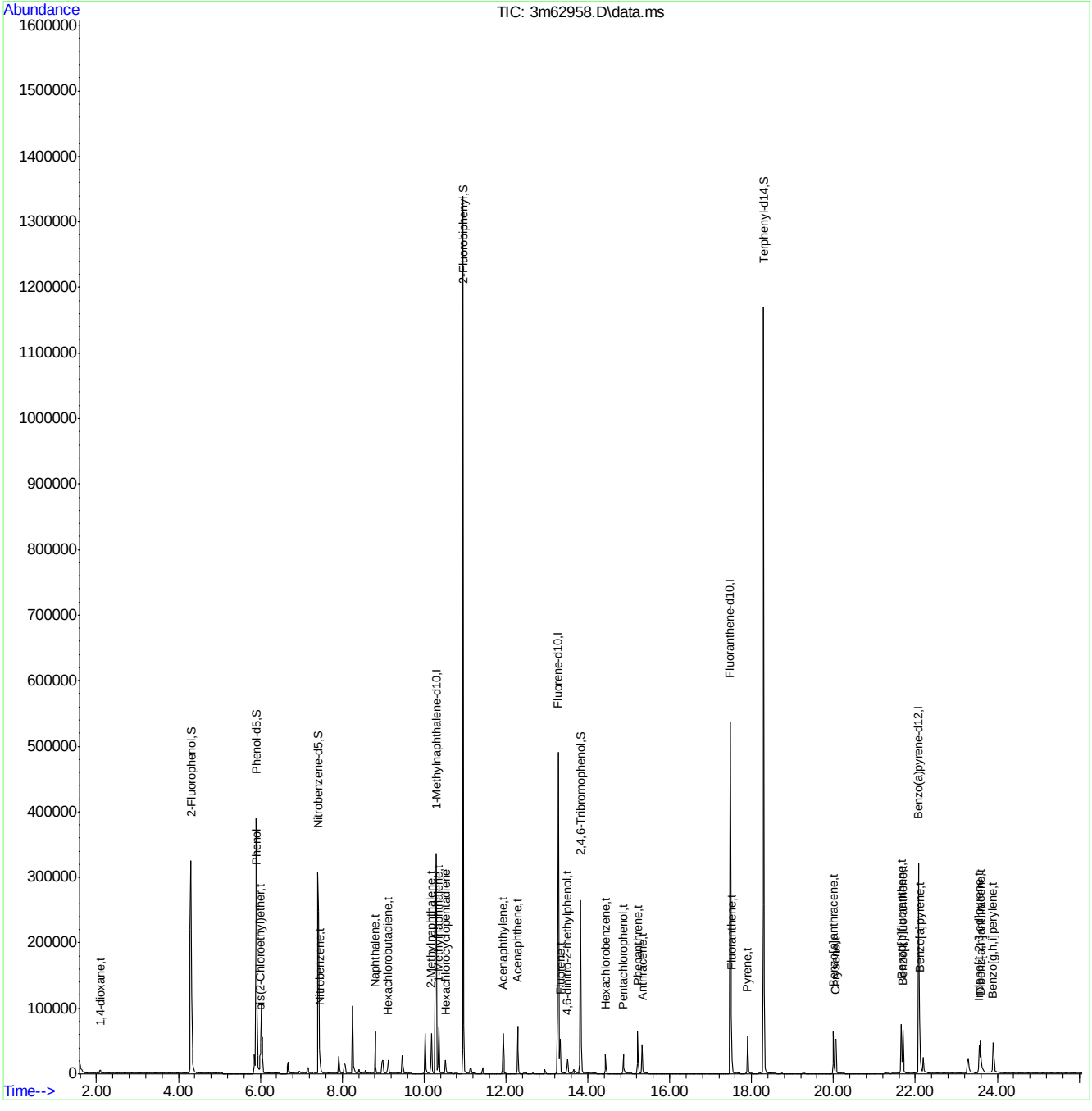
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC24133

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



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

7.6.25

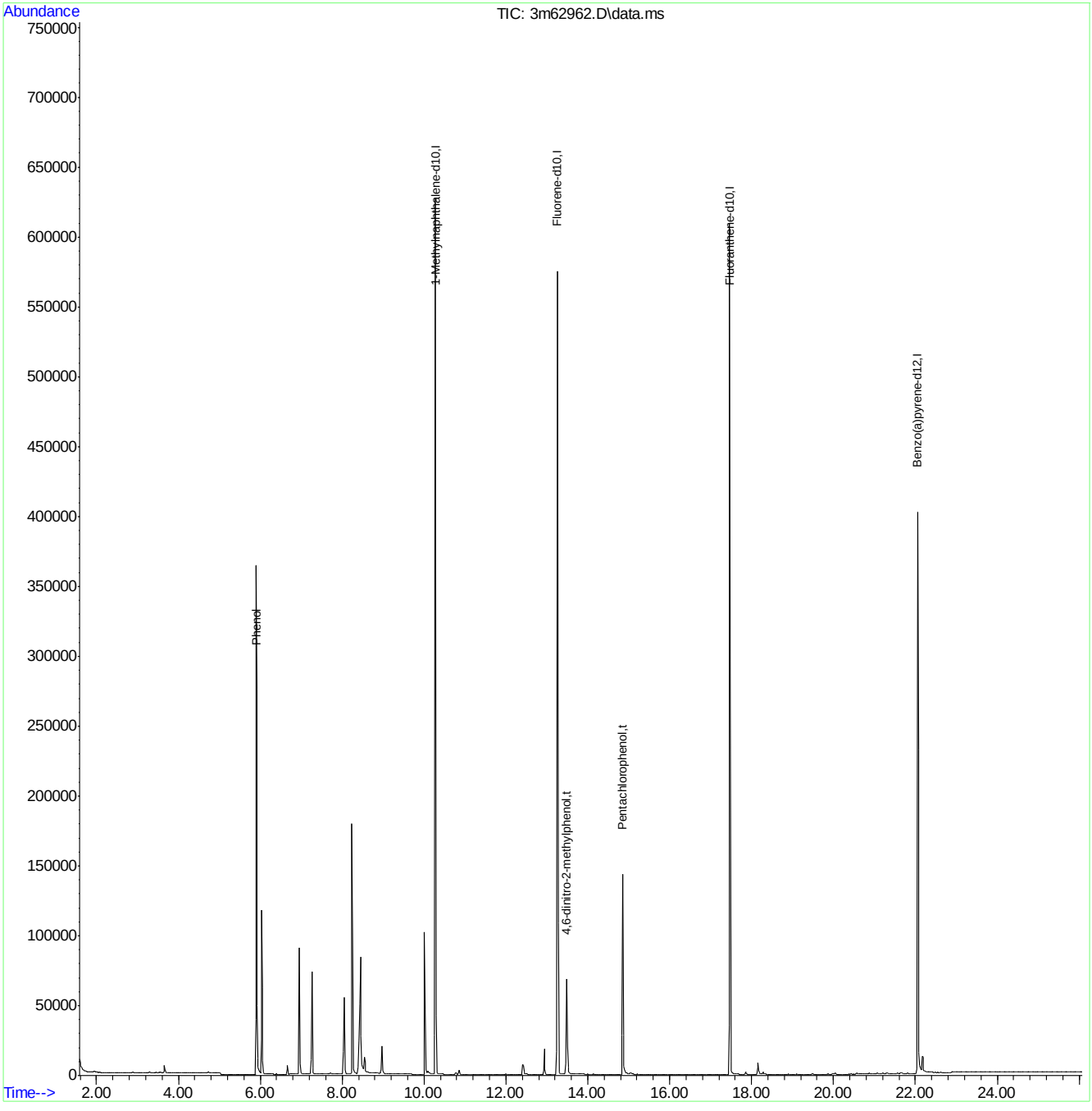
7

SGS ACCUTEST JC24133

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 JC24133

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

7.6.26

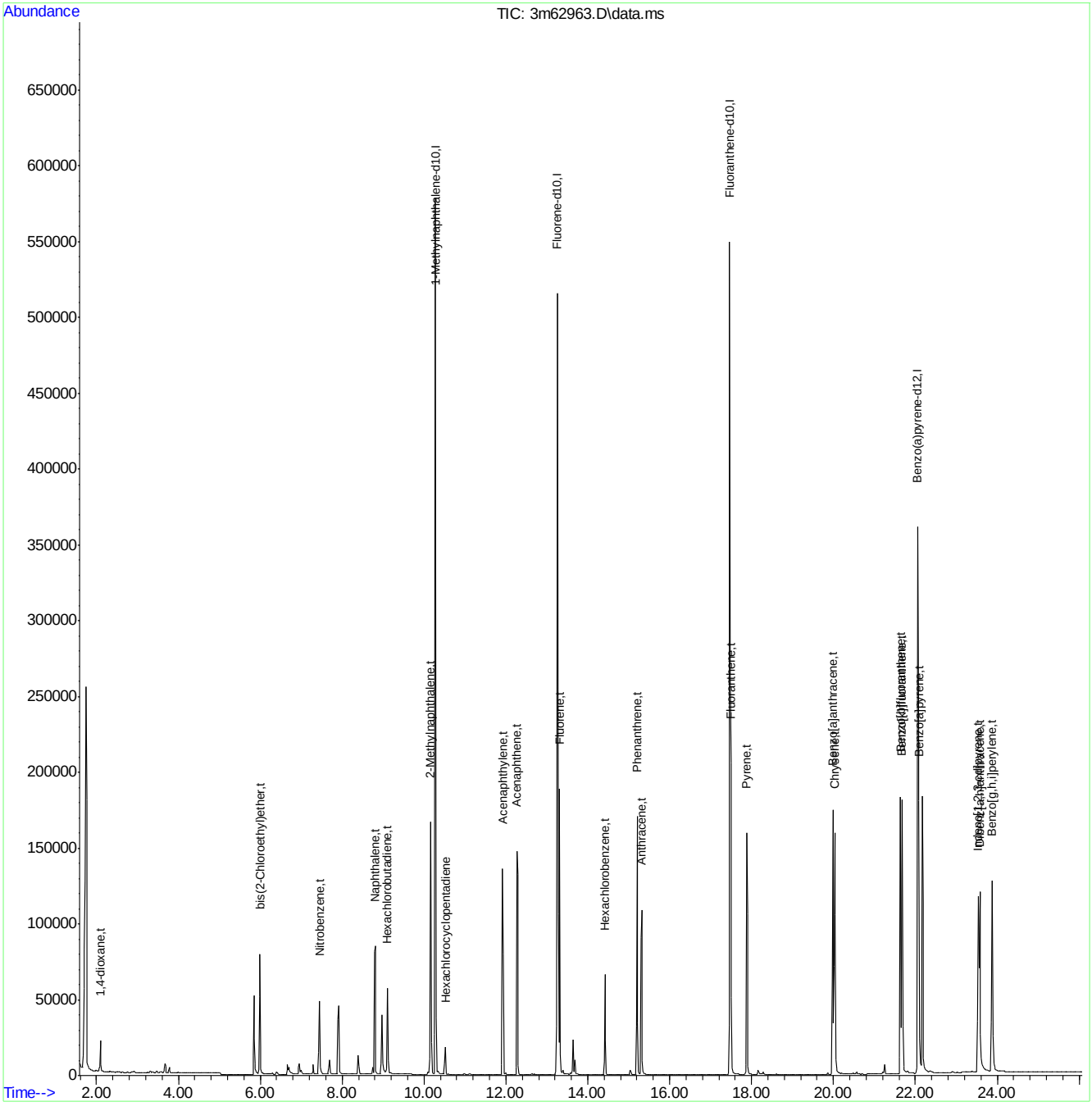
7

SGS ACCUTEST JC24133

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



Manual Integrations APPROVED (compounds with "m" flag)
Nina Pandya
07/18/16 11:32

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2979\
Data File : 3m62991.D
Acq On : 15 Jul 2016 9:48 pm
Operator : juliusj
Sample : cc2975-0.5
Misc : op95160a,e3m2979
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 17 14:30:03 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	10.200	150	268519	4.00	ppm	-0.10
14) Fluorene-d10	13.181	176	429668	4.00	ppm	-0.09
21) Fluoranthene-d10	17.386	212	700951	4.00	ppm	-0.09
31) Benzo(a)pyrene-d12	21.995	264	555282	4.00	ppm	-0.08
System Monitoring Compounds						
3) 2-Fluorophenol	4.229	112	385948	10.33	ppm	-0.08
Spiked Amount 50.000			Recovery = 20.66%			
4) Phenol-d5	5.819	99	583098	10.55	ppm	-0.10
Spiked Amount 50.000			Recovery = 21.10%			
7) Nitrobenzene-d5	7.335	82	575198	11.08	ppm	-0.09
Spiked Amount 50.000			Recovery = 22.16%			
15) 2-Fluorobiphenyl	10.876	172	1293859	11.10	ppm	-0.10
Spiked Amount 50.000			Recovery = 22.20%			
20) 2,4,6-Tribromophenol	13.728	330	181159	10.08	ppm	-0.11
Spiked Amount 50.000			Recovery = 20.16%			
28) Terphenyl-d14	18.205	244	1112862	10.40	ppm	-0.11
Spiked Amount 50.000			Recovery = 20.80%			
Target Compounds						Qvalue
2) 1,4-dioxane	2.035	88	7279	0.49	ppm #	44
5) Phenol	5.843	94	153990	2.67	ppm #	69
6) bis(2-Chloroethyl)ether	5.915	93	23536	0.55	ppm	97
8) Nitrobenzene	7.372	77	30689	0.58	ppm	61
9) Naphthalene	8.728	128	74324	0.47	ppm	94
10) Hexachlorobutadiene	9.029	225	13643	0.49	ppm	68
11) 2-Methylnaphthalene	10.097	141	38822	0.47	ppm	98
12) 1-Methylnaphthalene	10.282	141	42525	0.47	ppm	92
13) Hexachlorocyclopentadiene	10.446	237	23318	1.05	ppm	96
16) Acenaphthylene	11.838	152	77890	0.55	ppm	95
17) Acenaphthene	12.209	153	50333	0.54	ppm	77
18) 4,6-dinitro-2-methylph...	13.407	198	24579	1.96	ppm	89
19) Fluorene	13.238	166	60564	0.58	ppm	90
22) Hexachlorobenzene	14.341	284	19641	0.52	ppm	97
23) Pentachlorophenol	14.774	266	32180	2.36	ppm	98
24) Phenanthrene	15.130	178	83697	0.54	ppm	100
25) Anthracene	15.238	178	78021	0.53	ppm	87
26) Fluoranthene	17.417	202	97322	0.51	ppm	97
27) Pyrene	17.819	202	96963	0.54	ppm	90
29) Benzo[a]anthracene	19.905	228	82187	0.55	ppm	91
30) Chrysene	19.967	228	91502	0.58	ppm	88
32) Benzo[b]fluoranthene	21.563	252	87043m	0.48	ppm	
33) Benzo[k]fluoranthene	21.600	252	82372	0.50	ppm	89
34) Benzo[a]pyrene	22.014	252	84501	0.51	ppm	94
35) Indeno[1,2,3-cd]pyrene	23.463	276	88793	0.53	ppm	96
36) Dibenz[a,h]anthracene	23.500	278	71363	0.51	ppm	86
37) Benzo[g,h,i]perylene	23.782	276	81616	0.53	ppm	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2979\
Data File : 3m62991.D
Acq On : 15 Jul 2016 9:48 pm
Operator : juliusj
Sample : cc2975-0.5
Misc : op95160a,e3m2979
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 17 14:30:03 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

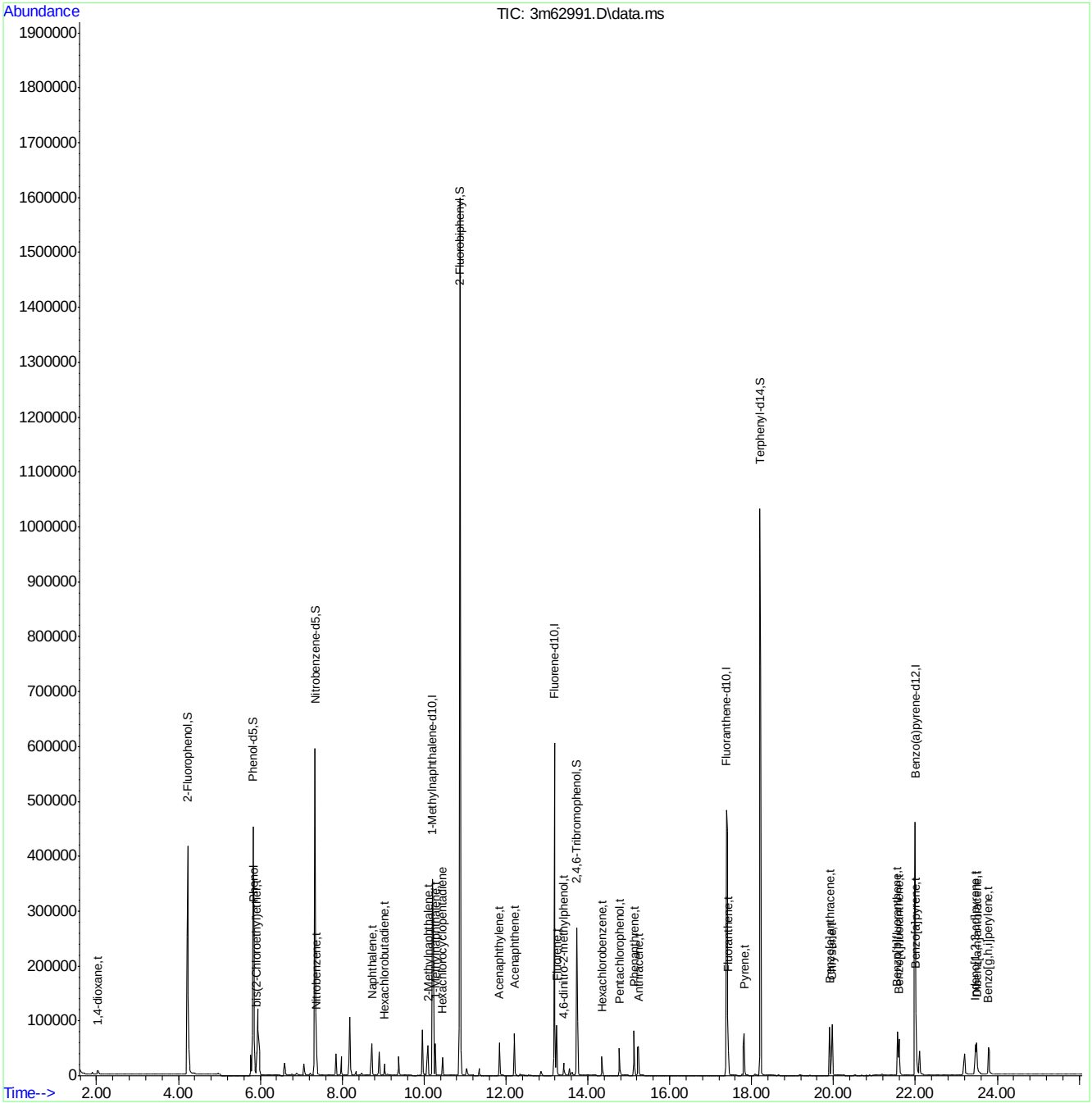
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2979\
Data File : 3m62991.D
Acq On : 15 Jul 2016 9:48 pm
Operator : juliusj
Sample : cc2975-0.5
Misc : op95160a,e3m2979
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 17 14:30:03 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 JC24133

Manual Integration Approval Summary

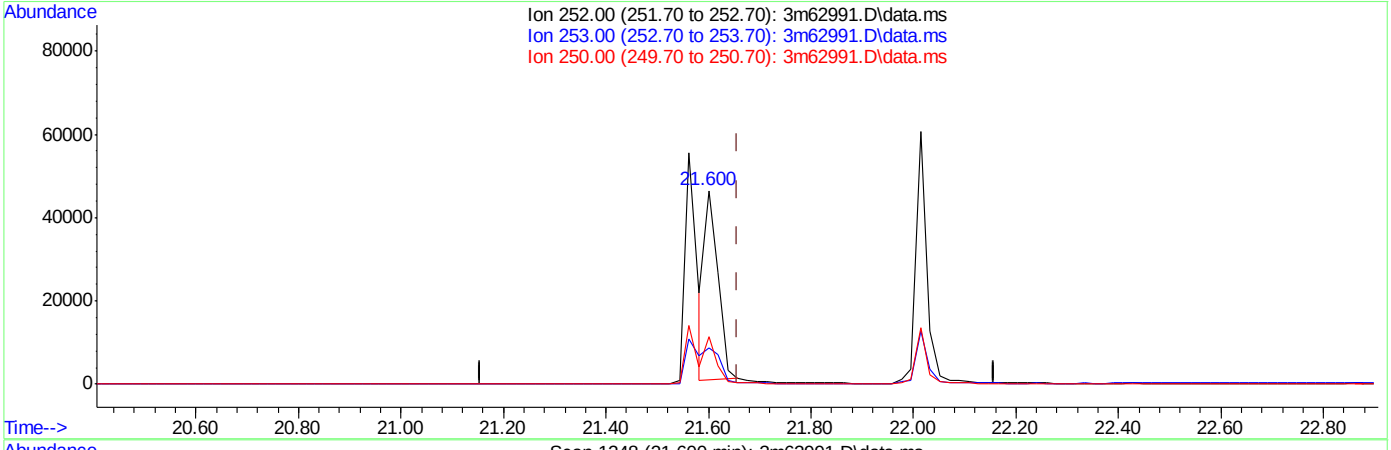
Sample Number:	E3M2979-CC2975	**Method:**	SW846 8270D BY SIM
Lab FileID:	3M62991.D	**Analyst approved:**	07/17/16 14:56 Kristi Schollenberger
Injection Time:	07/15/16 21:48	**Supervisor approved:**	07/18/16 11:32 Nina Pandya

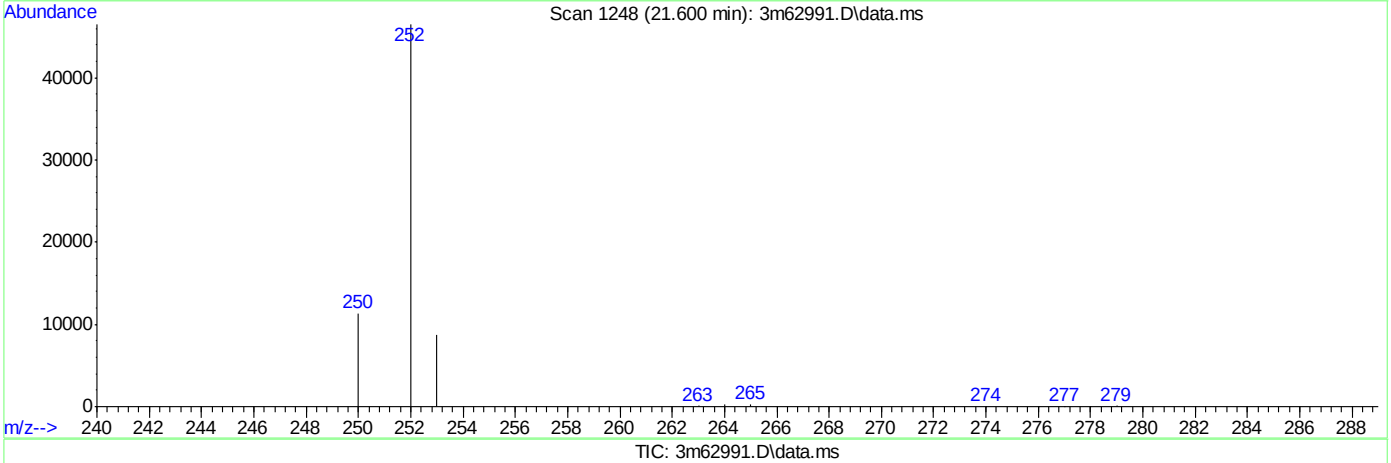
Parameter	CAS	Sig#	R.T. (min.)	Reason
Benzo(b)fluoranthene	205-99-2		21.56	Overlapping peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E3M2979\
Data File : 3m62991.D
Acq On : 15 Jul 2016 9:48 pm
Operator : juliusj
Sample : cc2975-0.5
Misc : op95160a,e3m2979
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 15 22:12:56 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





TIC: 3m62991.D\data.ms

(32) Benzo[b]fluoranthene (t)

21.600min (-0.056) 0.46ppm

response 82372

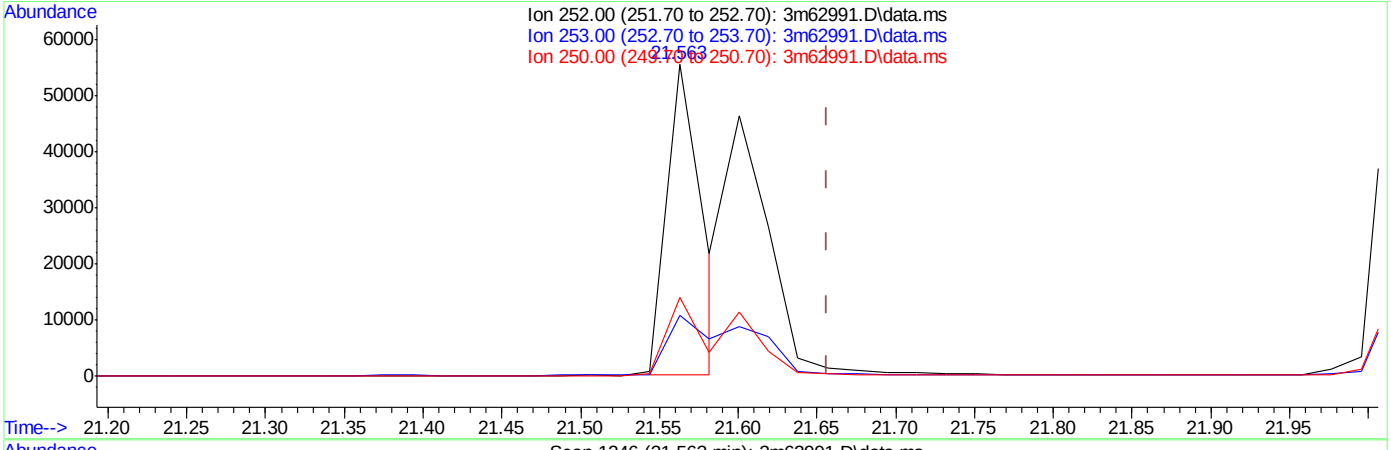
Ion	Exp%	Act%
252.00	100	100
253.00	22.20	14.84
250.00	21.80	26.01
0.00	0.00	0.00

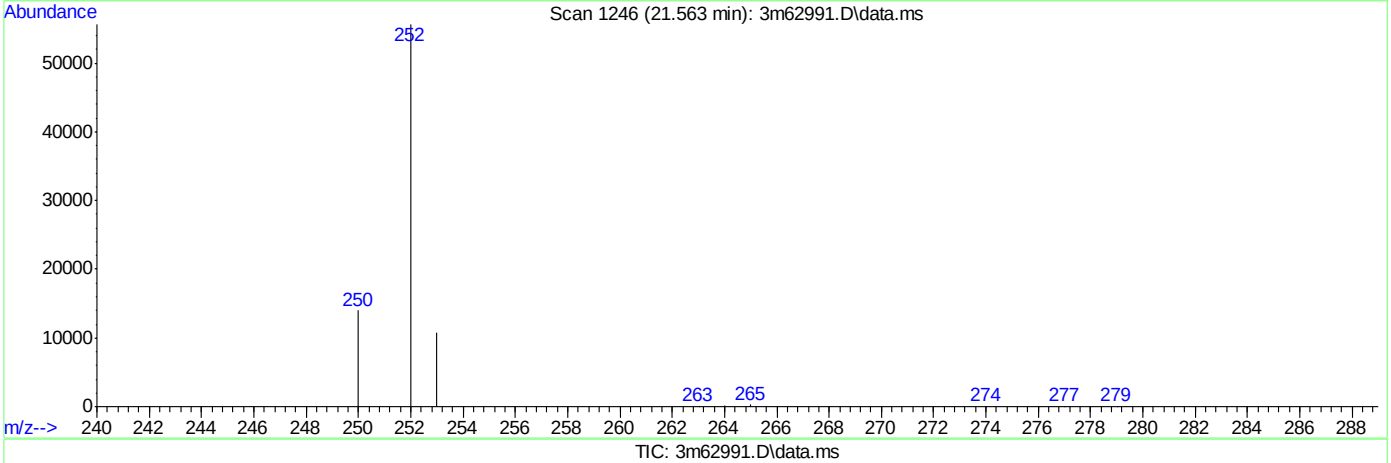
SGS ACCUTEST JC24133

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E3M2979\
Data File : 3m62991.D
Acq On : 15 Jul 2016 9:48 pm
Operator : juliusj
Sample : cc2975-0.5
Misc : op95160a,e3m2979
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 15 22:12:56 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





TIC: 3m62991.D\data.ms

(32) Benzo[b]fluoranthene (t)

21.563min (-0.094) 0.48ppm m

response 87043

Ion	Exp%	Act%
252.00	100	100
253.00	22.20	19.42
250.00	21.80	25.11
0.00	0.00	0.00

SGS ACCUTEST JC24133

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2980\
Data File : 3m63012.D
Acq On : 18 Jul 2016 9:16 am
Operator : ashleyd
Sample : cc2975-1.0
Misc : op95160a,e3m2980
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 18 15:41:40 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2975SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon Jul 18 15:41:37 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	10.179	150	248670	4.00	ppm	0.00
14) Fluorene-d10	13.162	176	377928	4.00	ppm	0.00
21) Fluoranthene-d10	17.371	212	580379	4.00	ppm	0.00
31) Benzo(a)pyrene-d12	21.977	264	471361	4.00	ppm	0.00
System Monitoring Compounds						
3) 2-Fluorophenol	4.199	112	753803	21.78	ppm	-0.06
Spiked Amount 50.000			Recovery = 43.56%			
4) Phenol-d5	5.807	99	1105752	21.60	ppm	-0.04
Spiked Amount 50.000			Recovery = 43.20%			
7) Nitrobenzene-d5	7.316	82	1032582	21.48	ppm	-0.02
Spiked Amount 50.000			Recovery = 42.96%			
15) 2-Fluorobiphenyl	10.856	172	2223217	21.68	ppm	-0.03
Spiked Amount 50.000			Recovery = 43.36%			
20) 2,4,6-Tribromophenol	13.709	330	327873	20.74	ppm	-0.01
Spiked Amount 50.000			Recovery = 41.48%			
28) Terphenyl-d14	18.190	244	1991000	22.48	ppm	-0.01
Spiked Amount 50.000			Recovery = 44.96%			
Target Compounds						Qvalue
2) 1,4-dioxane	2.004	88	14802	1.08	ppm	97
5) Phenol	5.819	94	297887	5.58	ppm #	75
6) bis(2-Chloroethyl)ether	5.891	93	43975	1.11	ppm	84
8) Nitrobenzene	7.354	77	54606	1.12	ppm #	49
9) Naphthalene	8.709	128	135271	0.93	ppm	92
10) Hexachlorobutadiene	9.011	225	23776	0.91	ppm	69
11) 2-Methylnaphthalene	10.077	141	74245	0.98	ppm	99
12) 1-Methylnaphthalene	10.261	141	81700	0.98	ppm	95
13) Hexachlorocyclopentadiene	10.425	237	36505	1.63	ppm	98
16) Acenaphthylene	11.823	152	150442	1.20	ppm	99
17) Acenaphthene	12.178	153	93992	1.15	ppm	96
18) 4,6-dinitro-2-methylph...	13.388	198	52103	4.07	ppm	93
19) Fluorene	13.219	166	110241	1.21	ppm	91
22) Hexachlorobenzene	14.326	284	34617	1.11	ppm	96
23) Pentachlorophenol	14.759	266	69135	5.36	ppm	94
24) Phenanthrene	15.114	178	154113	1.20	ppm	97
25) Anthracene	15.207	178	147910	1.22	ppm	96
26) Fluoranthene	17.402	202	181878	1.15	ppm	99
27) Pyrene	17.788	202	185034	1.24	ppm	99
29) Benzo[a]anthracene	19.889	228	160226	1.29	ppm	100
30) Chrysene	19.951	228	154578	1.17	ppm	100
32) Benzo[b]fluoranthene	21.544	252	163722	1.07	ppm	95
33) Benzo[k]fluoranthene	21.582	252	158137	1.14	ppm	95
34) Benzo[a]pyrene	21.995	252	157127	1.12	ppm	94
35) Indeno[1,2,3-cd]pyrene	23.444	276	169794	1.18	ppm	94
36) Dibenz[a,h]anthracene	23.481	278	136153	1.14	ppm	82
37) Benzo[g,h,i]perylene	23.764	276	149023	1.14	ppm	100

SGS ACCUTEST JC24133

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2980\
Data File : 3m63012.D
Acq On : 18 Jul 2016 9:16 am
Operator : ashleyd
Sample : cc2975-1.0
Misc : op95160a,e3m2980
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 18 15:41:40 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2975SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon Jul 18 15:41:37 2016
Response via : Initial Calibration

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

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

7.6.28

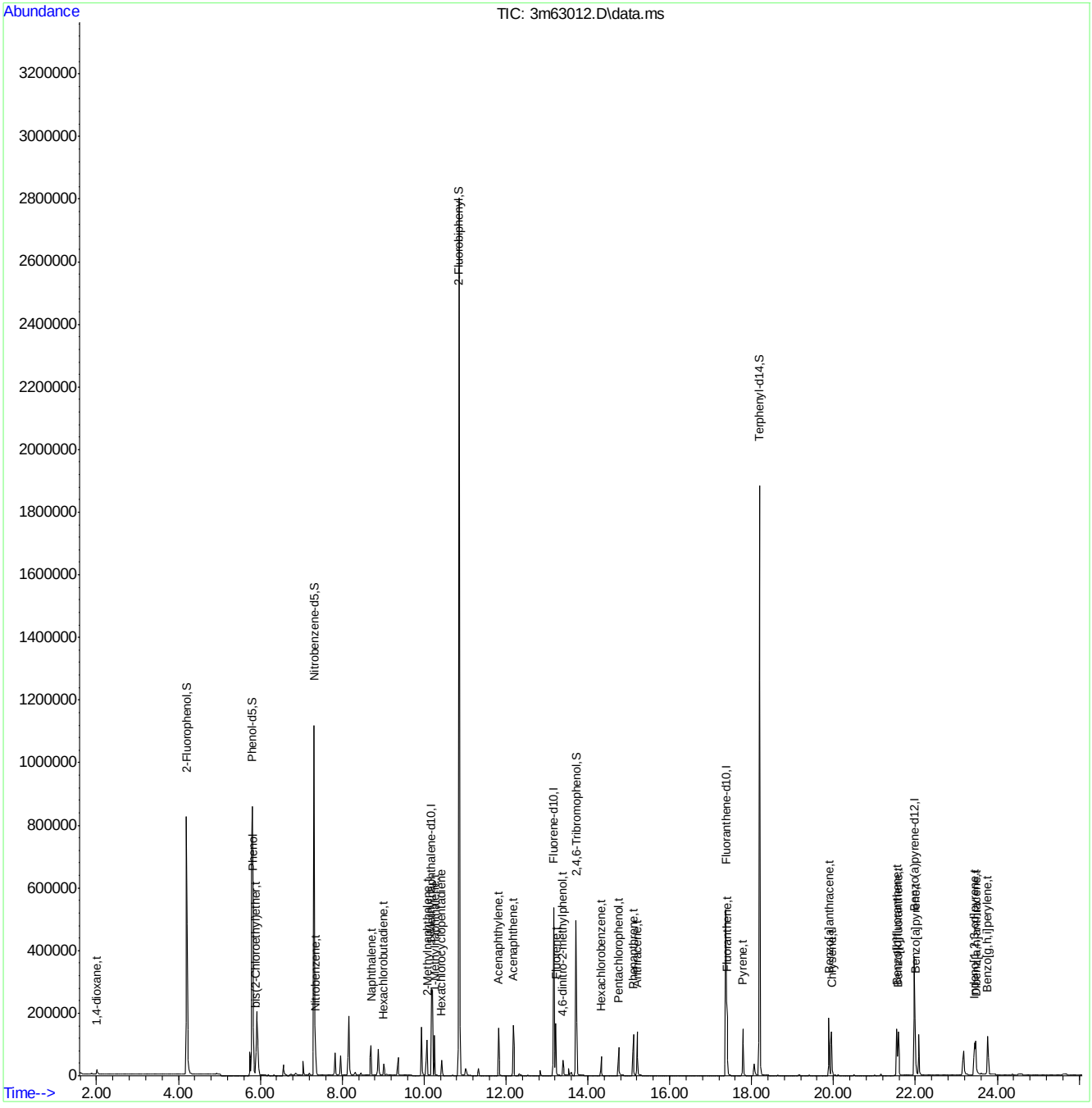
7

SGS ACCUTEST JC24133

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2980\
Data File : 3m63012.D
Acq On : 18 Jul 2016 9:16 am
Operator : ashleyd
Sample : cc2975-1.0
Misc : op95160a,e3m2980
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 18 15:41:40 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2975SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon Jul 18 15:41:37 2016
Response via : Initial Calibration



SGS ACCUTEST JC24133

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2982\
Data File : 3m63044.D
Acq On : 19 Jul 2016 9:09 am
Operator : ashleyd
Sample : cc2975-0.5
Misc : op95160a,e3m2982
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 19 09:34:32 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2975SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon Jul 18 15:41:37 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	10.241	150	390755	4.00	ppm	0.06
14) Fluorene-d10	13.219	176	525290	4.00	ppm	0.06
21) Fluoranthene-d10	17.433	212	821151	4.00	ppm	0.06
31) Benzo(a)pyrene-d12	22.033	264	661380	4.00	ppm	0.06
System Monitoring Compounds						
3) 2-Fluorophenol	4.245	112	488092	8.97	ppm	-0.01
Spiked Amount 50.000			Recovery	=	17.94%	
4) Phenol-d5	5.843	99	739472	9.19	ppm	0.00
Spiked Amount 50.000			Recovery	=	18.38%	
7) Nitrobenzene-d5	7.353	82	648697	8.59	ppm	0.01
Spiked Amount 50.000			Recovery	=	17.18%	
15) 2-Fluorobiphenyl	10.917	172	1216438	8.53	ppm	0.03
Spiked Amount 50.000			Recovery	=	17.06%	
20) 2,4,6-Tribromophenol	13.765	330	208374	9.48	ppm	0.04
Spiked Amount 50.000			Recovery	=	18.96%	
28) Terphenyl-d14	18.251	244	1308589	10.44	ppm	0.05
Spiked Amount 50.000			Recovery	=	20.88%	
Target Compounds						Qvalue
2) 1,4-dioxane	2.050	88	9040	0.42	ppm #	45
5) Phenol	5.855	94	196045	2.34	ppm #	89
6) bis(2-Chloroethyl)ether	5.940	93	29404	0.47	ppm #	45
8) Nitrobenzene	7.391	77	33455	0.44	ppm	81
9) Naphthalene	8.747	128	96466	0.42	ppm	100
10) Hexachlorobutadiene	9.067	225	16619	0.41	ppm	92
11) 2-Methylnaphthalene	10.117	141	56174	0.47	ppm	76
12) 1-Methylnaphthalene	10.302	141	61348	0.47	ppm	77
13) Hexachlorocyclopentadiene	10.487	237	17741	0.64	ppm #	77
16) Acenaphthylene	11.885	152	94553	0.54	ppm	93
17) Acenaphthene	12.240	153	60464	0.53	ppm	82
18) 4,6-dinitro-2-methylph...	13.445	198	27189	1.81	ppm	83
19) Fluorene	13.275	166	67540	0.53	ppm	97
22) Hexachlorobenzene	14.372	284	21927	0.50	ppm	87
23) Pentachlorophenol	14.805	266	43537	2.66	ppm	86
24) Phenanthrene	15.161	178	99908	0.55	ppm	95
25) Anthracene	15.269	178	92692	0.54	ppm	92
26) Fluoranthene	17.463	202	115539	0.51	ppm	96
27) Pyrene	17.850	202	116050	0.55	ppm	95
29) Benzo[a]anthracene	19.951	228	96423	0.55	ppm	92
30) Chrysene	19.997	228	106110	0.57	ppm	90
32) Benzo[b]fluoranthene	21.600	252	107513	0.50	ppm	99
33) Benzo[k]fluoranthene	21.638	252	102932	0.53	ppm	98
34) Benzo[a]pyrene	22.052	252	102137	0.52	ppm	96
35) Indeno[1,2,3-cd]pyrene	23.500	276	107795	0.54	ppm	97
36) Dibenz[a,h]anthracene	23.538	278	89497	0.53	ppm	92
37) Benzo[g,h,i]perylene	23.839	276	97295	0.53	ppm	98

SGS ACCUTEST JC24133

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2982\
Data File : 3m63044.D
Acq On : 19 Jul 2016 9:09 am
Operator : ashleyd
Sample : cc2975-0.5
Misc : op95160a,e3m2982
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 19 09:34:32 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2975SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon Jul 18 15:41:37 2016
Response via : Initial Calibration

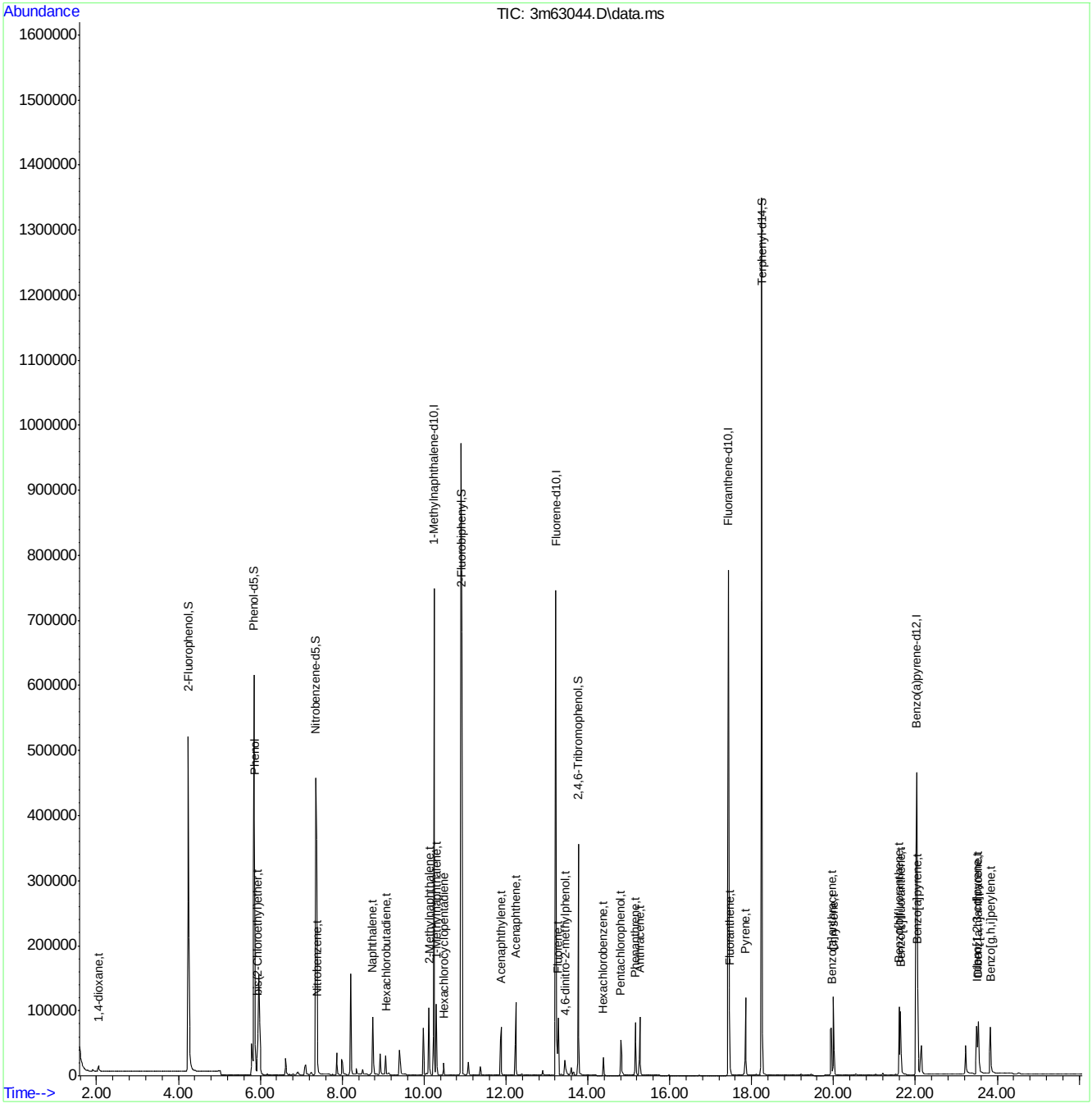
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2982\
Data File : 3m63044.D
Acq On : 19 Jul 2016 9:09 am
Operator : ashleyd
Sample : cc2975-0.5
Misc : op95160a,e3m2982
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 19 09:34:32 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2975SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon Jul 18 15:41:37 2016
Response via : Initial Calibration



SGS ACCUTEST JC24133

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2983\
Data File : 3m63076.D
Acq On : 20 Jul 2016 3:24 am
Operator : ashleyd
Sample : ecc2975-1.0
Misc : op95511a,e3m2983
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 20 03:48:43 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2975SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon Jul 18 15:41:37 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	10.220	150	320453	4.00	ppm	0.04
14) Fluorene-d10	13.200	176	443474	4.00	ppm	0.04
21) Fluoranthene-d10	17.417	212	684569	4.00	ppm	0.05
31) Benzo(a)pyrene-d12	22.014	264	533638	4.00	ppm	0.04
System Monitoring Compounds						
3) 2-Fluorophenol	4.229	112	760372	17.05	ppm	-0.03
Spiked Amount 50.000			Recovery = 34.10%			
4) Phenol-d5	5.831	99	1110257	16.83	ppm	-0.01
Spiked Amount 50.000			Recovery = 33.66%			
7) Nitrobenzene-d5	7.354	82	994404	16.06	ppm	0.01
Spiked Amount 50.000			Recovery = 32.12%			
15) 2-Fluorobiphenyl	10.897	172	2344702	19.48	ppm	0.01
Spiked Amount 50.000			Recovery = 38.96%			
20) 2,4,6-Tribromophenol	13.746	330	334034	18.00	ppm	0.02
Spiked Amount 50.000			Recovery = 36.00%			
28) Terphenyl-d14	18.236	244	2189035	20.95	ppm	0.04
Spiked Amount 50.000			Recovery = 41.90%			
Target Compounds						Qvalue
2) 1,4-dioxane	2.035	88	15058	0.85	ppm #	46
5) Phenol	5.843	94	301405	4.38	ppm #	83
6) bis(2-Chloroethyl)ether	5.928	93	46879	0.92	ppm #	25
8) Nitrobenzene	7.372	77	54769	0.87	ppm	91
9) Naphthalene	8.728	128	150202	0.80	ppm	97
10) Hexachlorobutadiene	9.048	225	30171	0.90	ppm	82
11) 2-Methylnaphthalene	10.097	141	84463	0.86	ppm #	64
12) 1-Methylnaphthalene	10.282	141	91441	0.85	ppm #	66
13) Hexachlorocyclopentadiene	10.466	237	38675	1.38	ppm	84
16) Acenaphthylene	11.854	152	156114	1.06	ppm	94
17) Acenaphthene	12.225	153	100351	1.05	ppm	81
18) 4,6-dinitro-2-methylph...	13.445	198	54452	3.70	ppm #	39
19) Fluorene	13.257	166	114633	1.07	ppm	95
22) Hexachlorobenzene	14.357	284	37494	1.02	ppm	92
23) Pentachlorophenol	14.805	266	57826	3.96	ppm	96
24) Phenanthrene	15.145	178	163352	1.08	ppm	97
25) Anthracene	15.253	178	164520	1.15	ppm	90
26) Fluoranthene	17.433	202	190184	1.02	ppm	94
27) Pyrene	17.834	202	199613	1.13	ppm	93
29) Benzo[a]anthracene	19.920	228	156453	1.06	ppm	93
30) Chrysene	19.982	228	181747	1.17	ppm	94
32) Benzo[b]fluoranthene	21.582	252	178395	1.03	ppm	98
33) Benzo[k]fluoranthene	21.619	252	179501	1.14	ppm	98
34) Benzo[a]pyrene	22.033	252	175467	1.10	ppm	96
35) Indeno[1,2,3-cd]pyrene	23.481	276	169423	1.04	ppm	95
36) Dibenz[a,h]anthracene	23.519	278	135549	1.00	ppm	85
37) Benzo[g,h,i]perylene	23.820	276	156317	1.06	ppm	97

SGS ACCUTEST JC24133

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2983\
Data File : 3m63076.D
Acq On : 20 Jul 2016 3:24 am
Operator : ashleyd
Sample : ecc2975-1.0
Misc : op95511a,e3m2983
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 20 03:48:43 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2975SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon Jul 18 15:41:37 2016
Response via : Initial Calibration

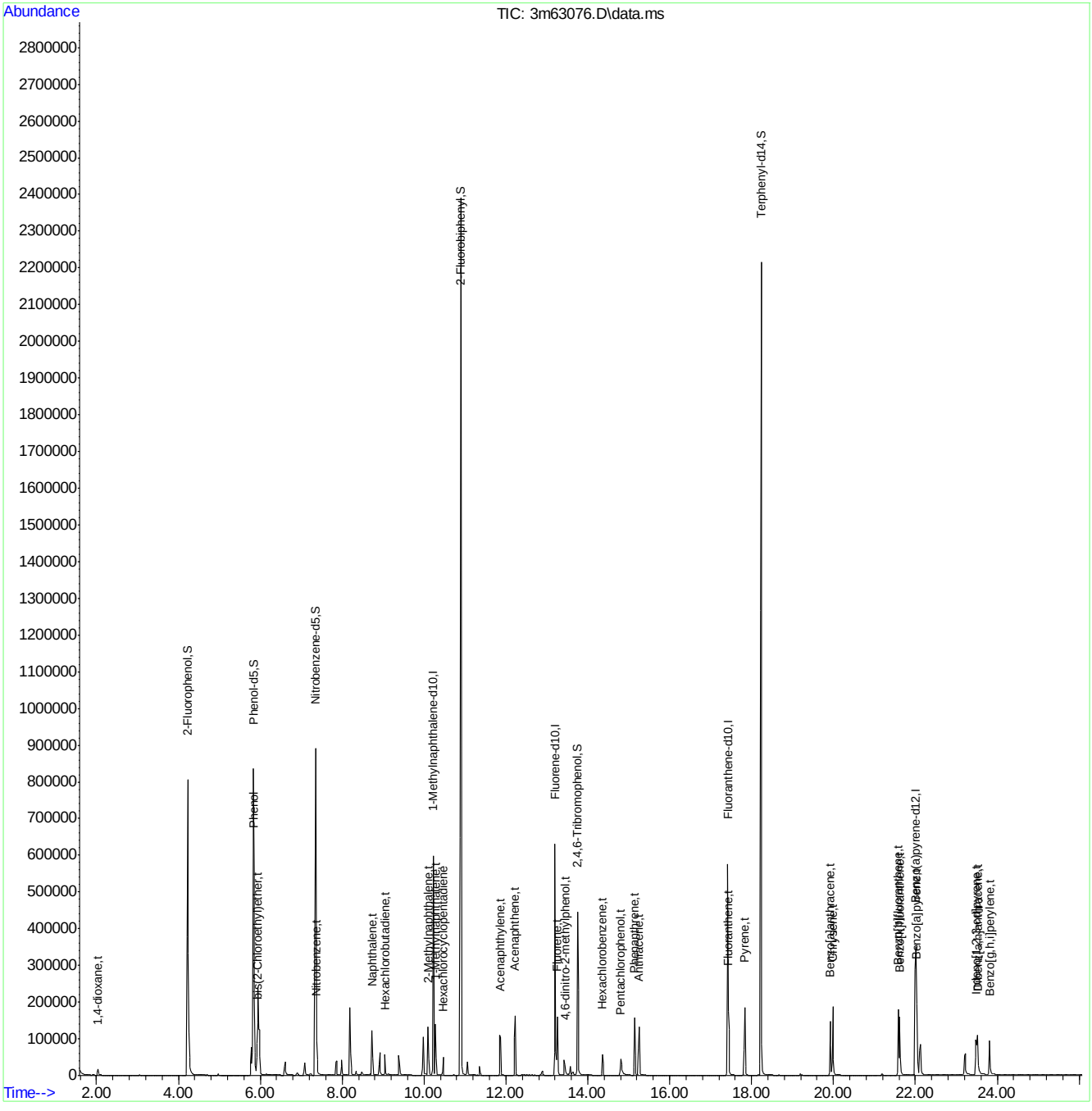
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2983\
Data File : 3m63076.D
Acq On : 20 Jul 2016 3:24 am
Operator : ashleyd
Sample : ecc2975-1.0
Misc : op95511a,e3m2983
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 20 03:48:43 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2975SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon Jul 18 15:41:37 2016
Response via : Initial Calibration



SGS ACCUTEST JC24133

Manual Integrations APPROVED (compounds with "m" flag)
Nina Pandya
07/05/16 10:03

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E5P1496\
Data File : 5p29326.D
Acq On : 1 Jul 2016 12:12 pm
Operator : kristis
Sample : ic1496-100
Misc : op94797,e5p1496,1000,,,1,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 01 12:33:45 2016
Quant Method : C:\MSDCHEM\1\METHODS\M5P1496.M
Quant Title : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
QLast Update : Fri Jul 01 12:04:23 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	5.004	152	226909	40.00	ppm	0.00
24) Naphthalene-d8	6.217	136	917604	40.00	ppm	0.00
47) Acenaphthene-d10	7.932	164	555426	40.00	ppm	0.00
69) Phenanthrene-d10	9.492	188	893687	40.00	ppm	0.00
83) Chrysene-d12	13.087	240	762346	40.00	ppm	0.01
91) Perylene-d12	15.144	264	707837	40.00	ppm	0.01
101) 1,4-Dichlorobenzene-d4a	5.004	152	226909	40.00	ppm	0.00
103) Acenaphthene-d10a	7.932	164	555426	40.00	ppm	0.00
105) Chrysene-d12a	13.087	240	762199	40.00	ppm	0.01
108) Phenanthrene-d10a	9.492	188	893687	40.00	ppm	0.00
111) Naphthalene-d8a	6.217	136	917604	40.00	ppm	0.00
113) Chrysene-d12b	13.087	240	762199	40.00	ppm	0.01
115) 1,4-Dichlorobenzene-d4b	5.004	152	226909	40.00	ppm	0.00
117) Chrysene-d12c	13.087	240	762346	40.00	ppm	0.01
System Monitoring Compounds						
5) 2-Fluorophenol	3.840	112	706431	102.59	ppm	0.00
Spiked Amount 50.000			Recovery	=	205.18%	
8) Phenol-d5	4.673	99	858728	100.59	ppm	0.00
Spiked Amount 50.000			Recovery	=	201.18%	
25) Nitrobenzene-d5	5.528	82	692698	110.67	ppm	0.00
Spiked Amount 50.000			Recovery	=	221.34%	
51) 2-Fluorobiphenyl	7.264	172	1419371	93.86	ppm	0.00
Spiked Amount 50.000			Recovery	=	187.72%	
73) 2,4,6-Tribromophenol	8.728	330	198939	133.36	ppm	0.00
Spiked Amount 50.000			Recovery	=	266.72%	
85) Terphenyl-d14	11.554	244	1422262	93.80	ppm	0.00
Spiked Amount 50.000			Recovery	=	187.60%	
107) 1-chlorooctadecane	0.000	57	0d	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
109) o-terphenyl	0.000	230	0d	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
Target Compounds						Qvalue
2) 1,4-Dioxane	2.424	88	293215	95.78	ppm	97
3) Pyridine	2.707	79	725496	101.57	ppm	90
4) N-Nitrosodimethylamine	2.675	74	409862	97.68	ppm	75
6) Indene	5.250	116	1282521	101.27	ppm	98
7) Cumene	4.288	105	1757388	104.70	ppm	96
9) Phenol	4.689	94	1010415	101.97	ppm	82
10) Aniline	4.705	93	987248	88.85	ppm	99
11) bis(2-Chloroethyl)ether	4.759	93	637119	95.08	ppm	97
12) 2-Chlorophenol	4.817	128	791819	102.60	ppm	97
13) Decane	4.860	43	658893	84.41	ppm	95
14) 1,3-Dichlorobenzene	4.956	146	844358	102.08	ppm	98
15) 1,4-Dichlorobenzene	5.020	146	837965	101.51	ppm	98
16) Benzyl alcohol	5.138	108	475932	100.75	ppm	88
17) 1,2-Dichlorobenzene	5.170	146	772640	97.88	ppm	99
18) Acetophenone	5.384	105	1003013	106.01	ppm	94

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E5P1496\
Data File : 5p29326.D
Acq On : 1 Jul 2016 12:12 pm
Operator : kristis
Sample : ic1496-100
Misc : op94797,e5p1496,1000,,,1,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 01 12:33:45 2016
Quant Method : C:\MSDCHEM\1\METHODS\M5P1496.M
Quant Title : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
QLast Update : Fri Jul 01 12:04:23 2016
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
19)	2-Methylphenol	5.245	108	653468	100.27	ppm		99
20)	2,2'-oxybis(1-Chloropr...	5.255	45	805776	80.60	ppm		89
21)	3&4-Methylphenol	5.389	108	712370	100.41	ppm		95
22)	n-Nitroso-di-n-propyla...	5.389	70	442824	99.60	ppm		99
23)	Hexachloroethane	5.485	201	260480	112.18	ppm		99
26)	Nitrobenzene	5.549	77	701089	105.46	ppm		96
27)	Quinoline	6.570	129	1495489	108.03	ppm		97
28)	Isophorone	5.774	82	1254107	104.34	ppm		96
29)	2-Nitrophenol	5.848	139	447544	114.47	ppm		86
30)	2,4-Dimethylphenol	5.891	107	719989	111.37	ppm		94
31)	Benzoic acid	6.041	105	523131m	240.15	ppm		
32)	bis(2-Chloroethoxy)met...	5.977	93	762054	97.18	ppm		99
33)	2,4-Dichlorophenol	6.083	162	631639	109.08	ppm		97
34)	2,6-Dichlorophenol	6.303	162	619529	110.58	ppm		99
35)	1,3,5-Trichlorobenzene	5.864	180	660595	105.23	ppm		100
36)	1,2,4-Trichlorobenzene	6.158	180	630904	106.53	ppm		97
37)	1,2,3-Trichlorobenzene	6.377	180	621163	112.20	ppm		98
38)	Naphthalene	6.238	128	2112778	104.50	ppm		98
39)	4-Chloroaniline	6.292	127	899791	106.25	ppm		98
40)	2,3-Dichloroaniline	7.184	161	744330	107.93	ppm		98
41)	Caprolactam	6.666	55	303687	104.11	ppm		94
42)	Hexachlorobutadiene	6.361	225	337198	130.78	ppm		99
43)	4-Chloro-3-methylphenol	6.773	107	644220	114.81	ppm		97
44)	2-Methylnaphthalene	6.906	141	1225750	105.49	ppm		93
45)	1-Methylnaphthalene	7.008	141	1263104	102.99	ppm		95
46)	Dimethylnaphthalene	7.521	156	1281290	111.68	ppm		95
48)	Hexachlorocyclopentadiene	7.066	237	751775	242.01	ppm		99
49)	2,4,6-Trichlorophenol	7.189	196	415672	103.15	ppm		99
50)	2,4,5-Trichlorophenol	7.232	196	421146	101.80	ppm		99
52)	2-Chloronaphthalene	7.387	162	1257896	91.47	ppm		98
53)	Biphenyl	7.366	154	1748232	92.34	ppm		98
54)	2-Nitroaniline	7.488	65	363021	100.57	ppm		96
55)	Dimethylphthalate	7.665	163	1428515	102.25	ppm		97
56)	Acenaphthylene	7.793	152	2141470	97.17	ppm		99
57)	2,6-Dinitrotoluene	7.724	165	341196	117.45	ppm		95
58)	3-Nitroaniline	7.889	138	404420	105.58	ppm		94
59)	Acenaphthene	7.964	153	1301356	101.76	ppm		95
60)	2,4-Dinitrophenol	7.996	184	379841	315.17	ppm		90
61)	4-Nitrophenol	8.065	109	196499	168.86	ppm	#	59
62)	Dibenzofuran	8.135	168	1743809	101.73	ppm		94
63)	2,4-Dinitrotoluene	8.119	165	455676	126.11	ppm		97
64)	2,3,4,6-Tetrachlorophenol	8.258	232	366396	134.22	ppm		96
65)	Diethylphthalate	8.359	149	1425194	104.79	ppm		99
66)	Fluorene	8.477	166	1445744	102.00	ppm		98
67)	4-Chlorophenyl-phenyle...	8.471	204	630218	113.29	ppm		97
68)	4-Nitroaniline	8.509	138	404954	106.07	ppm		76
70)	4,6-Dinitro-2-methylph...	8.536	198	268096	176.38	ppm		97
71)	n-Nitrosodiphenylamine	8.594	169	959490	103.25	ppm		100
72)	1,2-Diphenylhydrazine	8.637	77	1319004	97.94	ppm		95
74)	4-Bromophenyl-phenylether	8.984	248	400562	119.83	ppm		98

SGS ACCUTEST JC24133

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E5P1496\
Data File : 5p29326.D
Acq On : 1 Jul 2016 12:12 pm
Operator : kristis
Sample : ic1496-100
Misc : op94797,e5p1496,1000,,,1,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 01 12:33:45 2016
Quant Method : C:\MSDCHEM\1\METHODS\M5P1496.M
Quant Title : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
QLast Update : Fri Jul 01 12:04:23 2016
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
75)	Hexachlorobenzene	9.064	284	417922	111.97	ppm	99
76)	Pentachlorophenol	9.283	266	504533	352.78	ppm	99
77)	Phenanthrene	9.519	178	1952830	101.51	ppm	99
78)	Anthracene	9.583	178	2005032	103.04	ppm	99
79)	Carbazole	9.770	167	1961919	101.37	ppm	98
80)	Di-n-butylphthalate	10.202	149	2470863	101.96	ppm	99
81)	Fluoranthene	11.020	202	2061802	107.26	ppm	94
82)	Octadecane	9.369	57	852451	81.89	ppm	95
84)	Pyrene	11.324	202	2144964	80.97	ppm	98
86)	Butylbenzylphthalate	12.286	149	1111132	98.77	ppm	99
87)	Benzo[a]anthracene	13.071	228	2024049	100.90	ppm	99
88)	3,3'-Dichlorobenzidine	13.055	252	774274	112.34	ppm	97
89)	Chrysene	13.130	228	1970855	103.59	ppm	99
90)	bis(2-Ethylhexyl)phtha...	13.178	149	1523504	95.49	ppm	98
92)	Di-n-octylphthalate	14.140	149	2710360	88.02	ppm	98
93)	Benzo[b]fluoranthene	14.636	252	2141000	102.36	ppm	94
94)	Benzo[k]fluoranthene	14.674	252	1935791	97.11	ppm	93
95)	Benzo[a]pyrene	15.074	252	1881295	105.02	ppm	92
96)	Indeno[1,2,3-cd]pyrene	16.869	276	1924662m	108.56	ppm	
97)	Dibenz(a,h)acridine	16.458	279	1705659	117.11	ppm	97
98)	Dibenz[a,h]anthracene	16.912	278	1894216	104.53	ppm	83
99)	7,12-Dimethylbenz(a)an...	14.631	256	989289	106.59	ppm	97
100)	Benzo[g,h,i]perylene	17.372	276	1957793	98.77	ppm	78

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

7.6.31

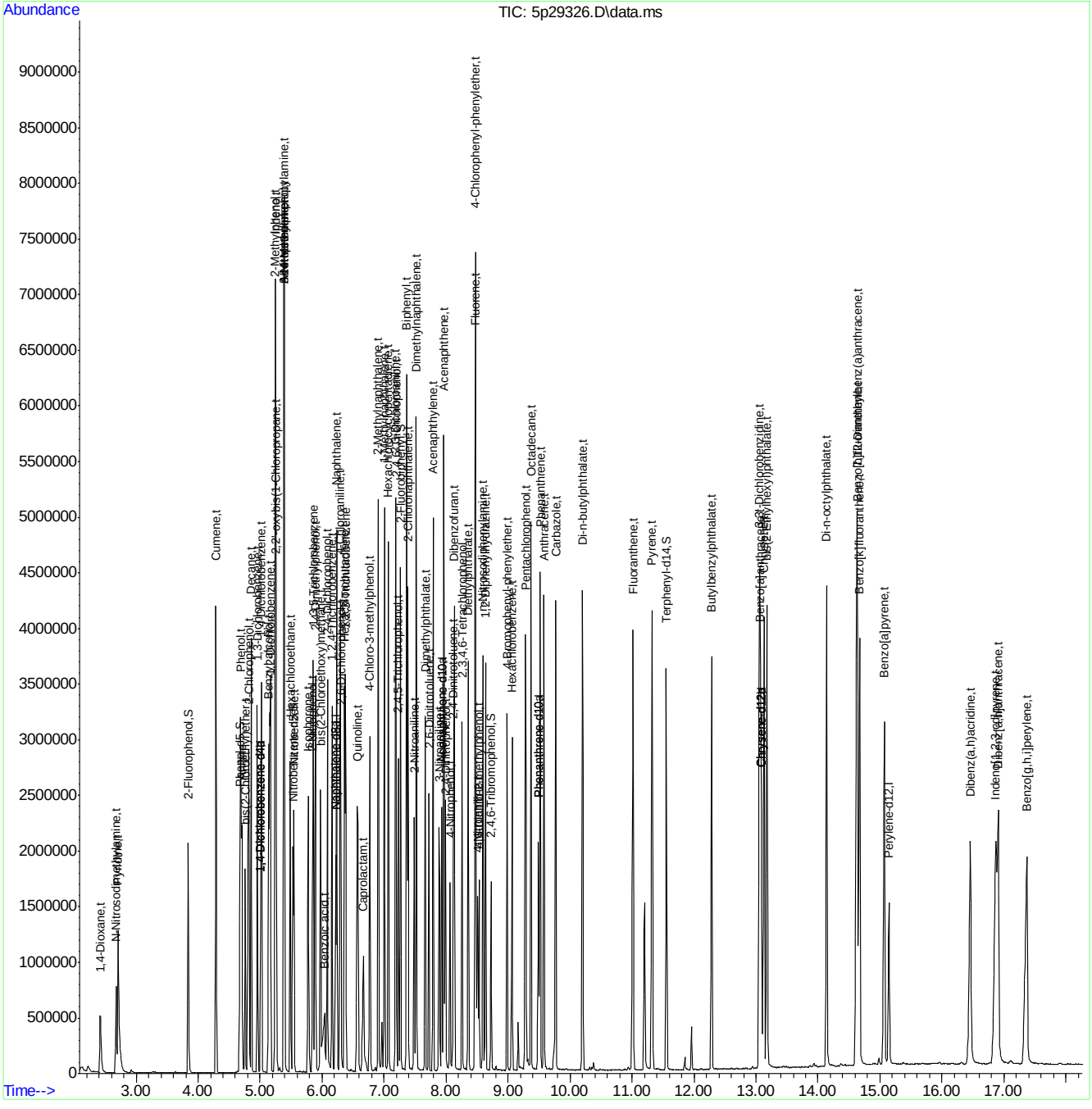
7

SGS ACCUTEST JC24133

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E5P1496\
Data File : 5p29326.D
Acq On : 1 Jul 2016 12:12 pm
Operator : kristis
Sample : ic1496-100
Misc : op94797,e5p1496,1000,,,1,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 01 12:33:45 2016
Quant Method : C:\MSDCHEM\1\METHODS\M5P1496.M
Quant Title : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
QLast Update : Fri Jul 01 12:04:23 2016
Response via : Initial Calibration



Manual Integration Approval Summary

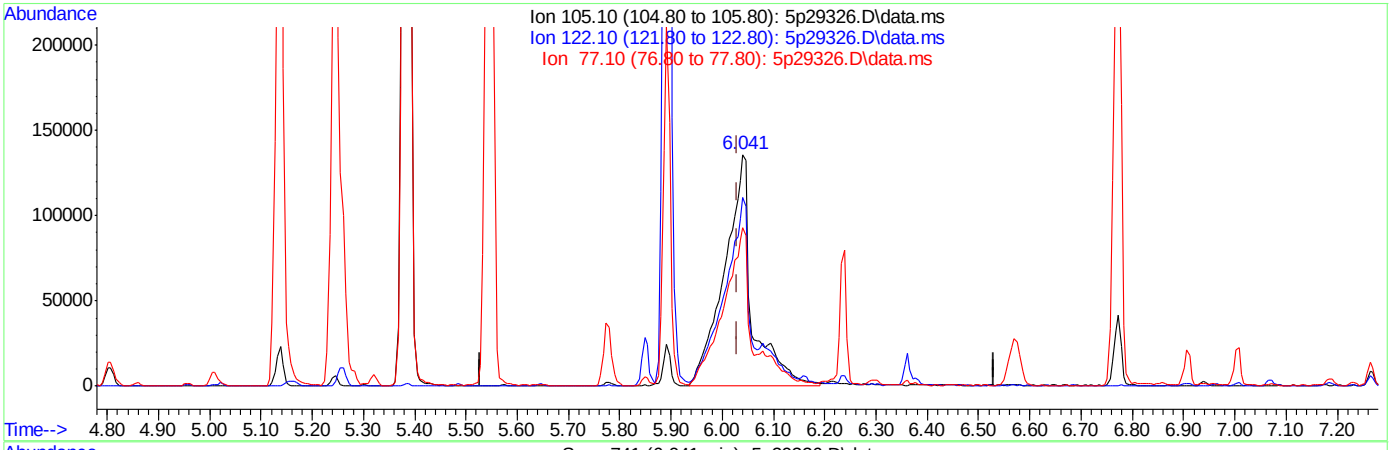
Sample Number:	E5P1496-IC1496	**Method:**	SW846 8270D
Lab FileID:	5P29326.D	**Analyst approved:**	07/03/16 16:26 Kristi Schollenberger
Injection Time:	07/01/16 12:12	**Supervisor approved:**	07/05/16 10:03 Nina Pandya

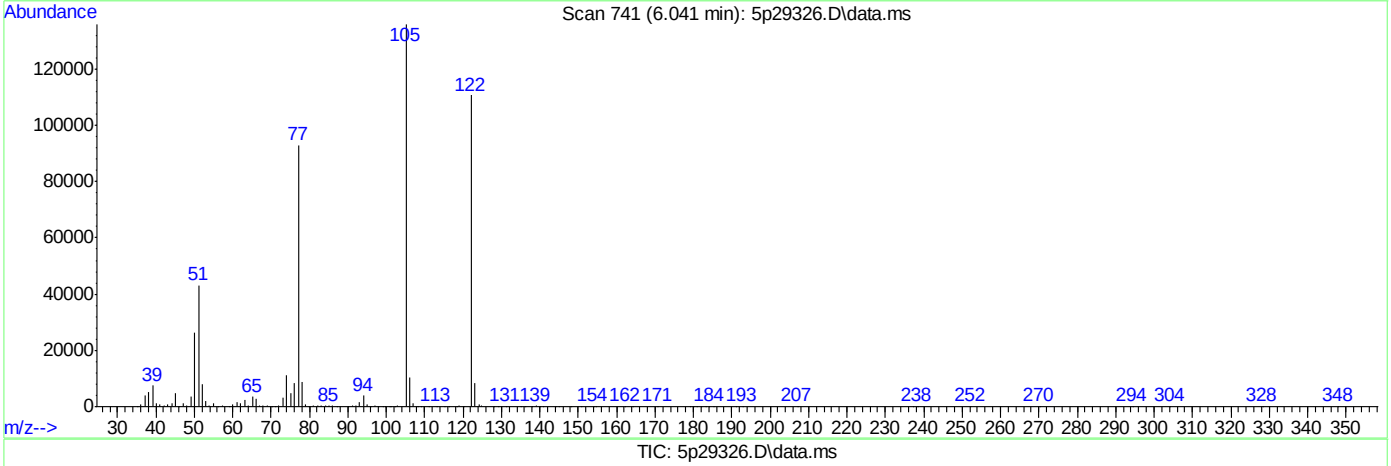
Parameter	CAS	Sig#	R.T. (min.)	Reason
Benzoic acid	65-85-0		6.04	Split peak
Indeno(1,2,3-cd)pyrene	193-39-5		16.87	Overlapping peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E5P1496\
Data File : 5p29326.D
Acq On : 1 Jul 2016 12:12 pm
Operator : kristis
Sample : ic1496-100
Misc : op94797,e5p1496,1000,,,1,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 01 12:30:48 2016
Quant Method : C:\MSDCHEM\1\METHODS\M5P1496.M
Quant Title : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
QLast Update : Fri Jul 01 12:04:23 2016
Response via : Initial Calibration





TIC: 5p29326.D\data.ms

(31) Benzoic acid (t)

6.041min (+0.011) 240.15ppm m

response 523131

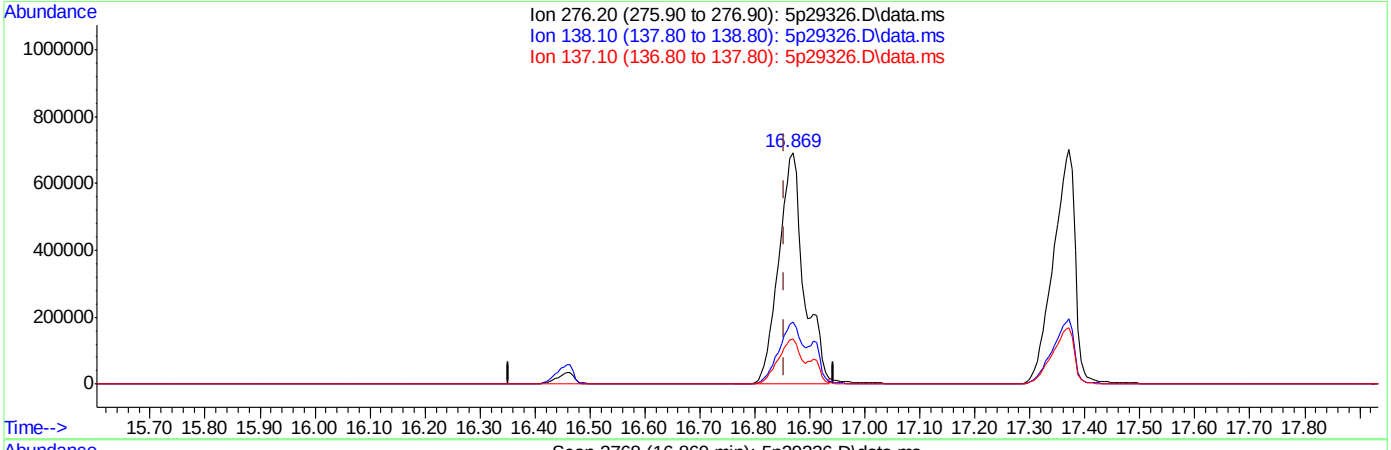
Ion	Exp%	Act%
105.10	100	100
122.10	85.00	81.52
77.10	68.90	68.33
0.00	0.00	0.00

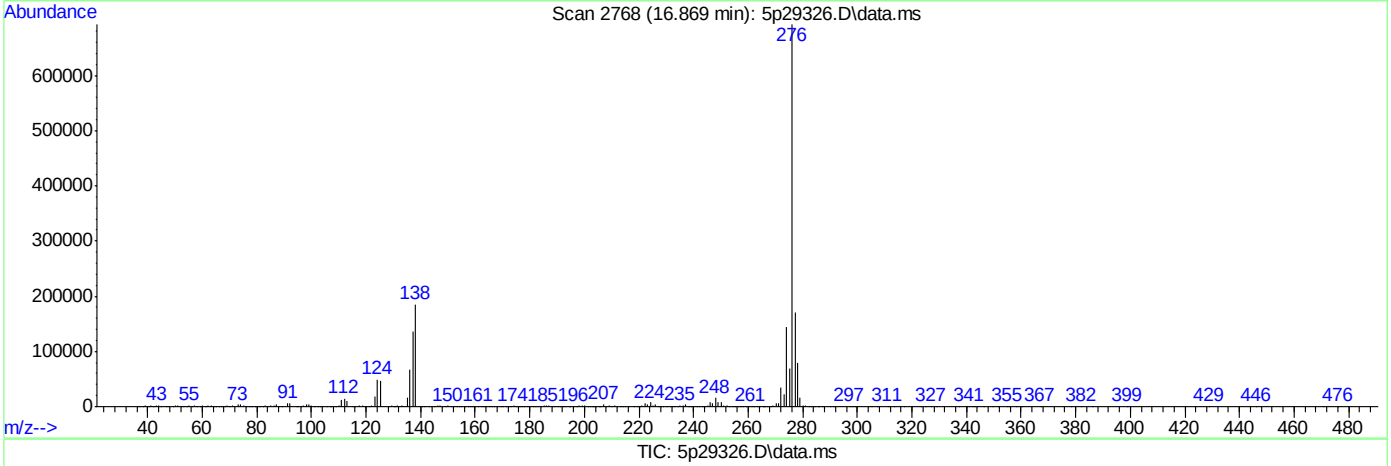
SGS ACCUTEST JC24133

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E5P1496\
Data File : 5p29326.D
Acq On : 1 Jul 2016 12:12 pm
Operator : kristis
Sample : ic1496-100
Misc : op94797,e5p1496,1000,,,1,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 01 12:30:48 2016
Quant Method : C:\MSDCHEM\1\METHODS\M5P1496.M
Quant Title : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
QLast Update : Fri Jul 01 12:04:23 2016
Response via : Initial Calibration





TIC: 5p29326.D\data.ms

(96) Indeno[1,2,3-cd]pyrene (t)

16.869min (+0.016) 124.67ppm

response 2210298

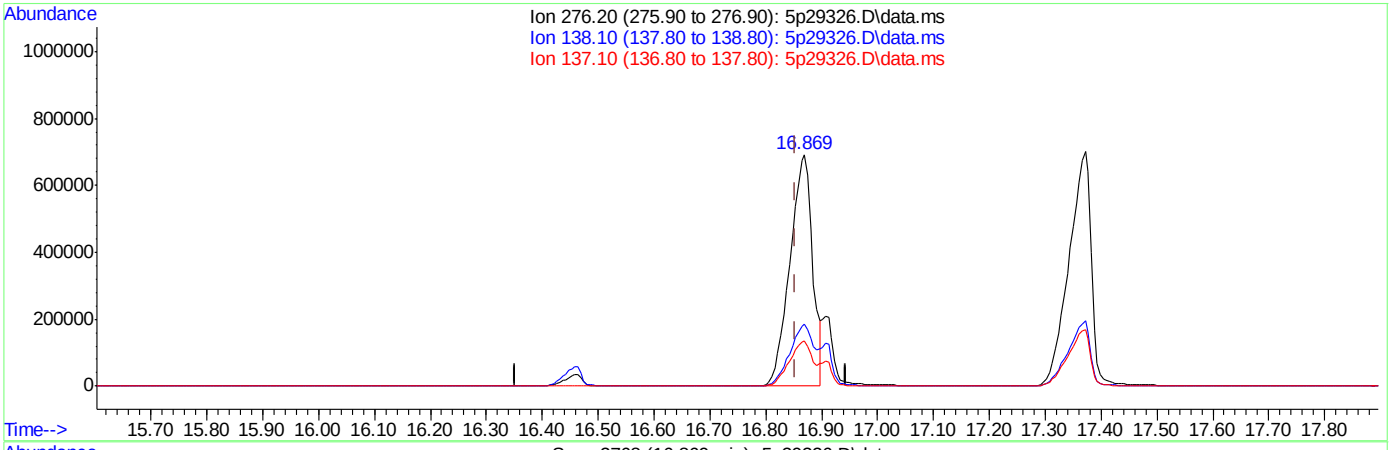
Ion	Exp%	Act%
276.20	100	100
138.10	46.90	26.49
137.10	32.70	19.49
0.00	0.00	0.00

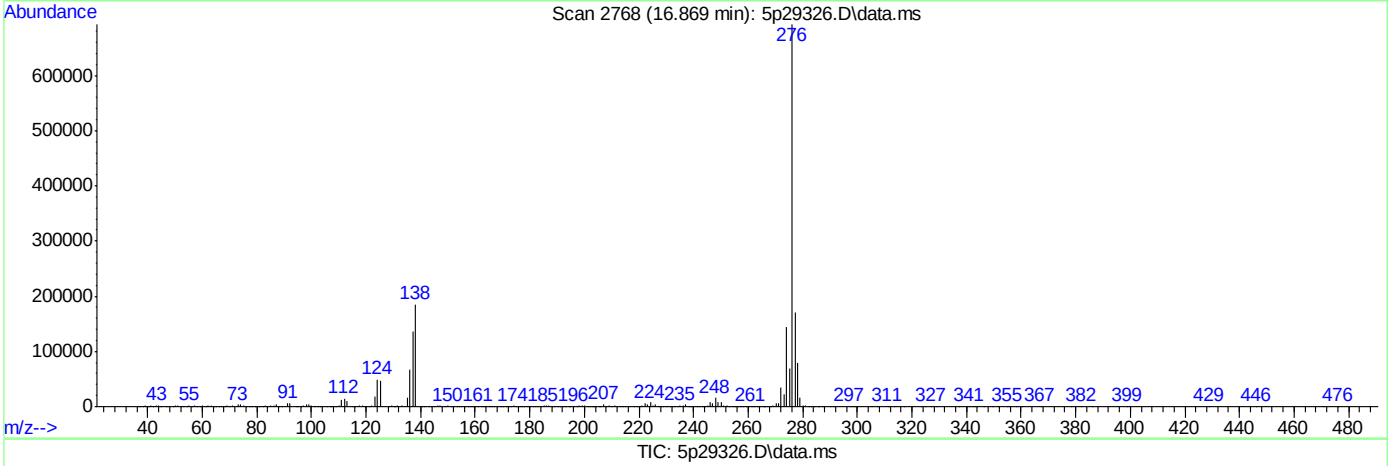
SGS ACCUTEST JC24133

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E5P1496\
Data File : 5p29326.D
Acq On : 1 Jul 2016 12:12 pm
Operator : kristis
Sample : ic1496-100
Misc : op94797,e5p1496,1000,,,1,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 01 12:30:48 2016
Quant Method : C:\MSDCHEM\1\METHODS\M5P1496.M
Quant Title : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
QLast Update : Fri Jul 01 12:04:23 2016
Response via : Initial Calibration





TIC: 5p29326.D\data.ms

(96) Indeno[1,2,3-cd]pyrene (t)

16.869min (+0.016) 108.56ppm m

response 1924662

Ion	Exp%	Act%
276.20	100	100
138.10	46.90	26.69
137.10	32.70	19.63
0.00	0.00	0.00

Manual Integrations APPROVED (compounds with "m" flag)
Nina Pandya
07/05/16 10:03

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E5P1496\
Data File : 5p29327.D
Acq On : 1 Jul 2016 12:38 pm
Operator : kristis
Sample : ic1496-2
Misc : op94797,e5p1496,1000,,,1,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 01 13:27:17 2016
Quant Method : C:\MSDCHEM\1\METHODS\M5P1496.M
Quant Title : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
QLast Update : Fri Jul 01 13:25:18 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	5.004	152	324780	40.00	ppm	0.00
24) Naphthalene-d8	6.212	136	1294389	40.00	ppm	0.00
47) Acenaphthene-d10	7.927	164	790538	40.00	ppm	0.00
69) Phenanthrene-d10	9.481	188	1254485	40.00	ppm	-0.01
83) Chrysene-d12	13.071	240	1047584	40.00	ppm	-0.02
91) Perylene-d12	15.139	264	956723	40.00	ppm	0.00
101) 1,4-Dichlorobenzene-d4a	5.004	152	324780	40.00	ppm	0.00
103) Acenaphthene-d10a	7.927	164	790538	40.00	ppm	0.00
105) Chrysene-d12a	13.071	240	1047584	40.00	ppm	-0.02
108) Phenanthrene-d10a	9.481	188	1254485	40.00	ppm	-0.01
111) Naphthalene-d8a	6.212	136	1294389	40.00	ppm	0.00
113) Chrysene-d12b	13.071	240	1047584	40.00	ppm	-0.02
115) 1,4-Dichlorobenzene-d4b	5.004	152	324803	40.00	ppm	0.00
117) Chrysene-d12c	13.071	240	1047584	40.00	ppm	-0.02
System Monitoring Compounds						
5) 2-Fluorophenol	3.834	112	17047	1.69	ppm	0.00
Spiked Amount 50.000			Recovery	=	3.38%	
8) Phenol-d5	4.662	99	23493	1.91	ppm	-0.01
Spiked Amount 50.000			Recovery	=	3.82%	
25) Nitrobenzene-d5	5.517	82	17391	1.78	ppm	-0.01
Spiked Amount 50.000			Recovery	=	3.56%	
51) 2-Fluorobiphenyl	7.259	172	43900	2.17	ppm	0.00
Spiked Amount 50.000			Recovery	=	4.34%	
73) 2,4,6-Tribromophenol	8.717	330	5166	1.85	ppm	-0.01
Spiked Amount 50.000			Recovery	=	3.70%	
85) Terphenyl-d14	11.543	244	40428	2.07	ppm	-0.01
Spiked Amount 50.000			Recovery	=	4.14%	
107) 1-chlorooctadecane	0.000	57	0d	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
109) o-terphenyl	0.000	230	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
Target Compounds						Qvalue
2) 1,4-Dioxane	2.429	88	9934	2.37	ppm	93
3) Pyridine	2.729	79	21404	2.06	ppm	97
4) N-Nitrosodimethylamine	2.686	74	12100	2.06	ppm	98
6) Indene	5.245	116	39479	2.15	ppm	99
7) Cumene	4.289	105	53409	2.12	ppm	98
9) Phenol	4.673	94	28546	1.97	ppm	86
10) Aniline	4.700	93	32435	2.30	ppm	95
11) bis(2-Chloroethyl)ether	4.753	93	19414	2.13	ppm	94
12) 2-Chlorophenol	4.812	128	23702	2.09	ppm	94
13) Decane	4.855	43	21550	2.29	ppm	98
14) 1,3-Dichlorobenzene	4.956	146	26660	2.21	ppm	96
15) 1,4-Dichlorobenzene	5.020	146	25363	2.11	ppm	96
16) Benzyl alcohol	5.127	108	13612	2.00	ppm	92
17) 1,2-Dichlorobenzene	5.165	146	24782	2.24	ppm	95
18) Acetophenone	5.373	105	29378	2.05	ppm	87

SGS ACCUTEST JC24133

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E5P1496\
Data File : 5p29327.D
Acq On : 1 Jul 2016 12:38 pm
Operator : kristis
Sample : ic1496-2
Misc : op94797,e5p1496,1000,,,1,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 01 13:27:17 2016
Quant Method : C:\MSDCHEM\1\METHODS\M5P1496.M
Quant Title : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
QLast Update : Fri Jul 01 13:25:18 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
19) 2-Methylphenol	5.234	108	19770	2.11	ppm		99
20) 2,2'-oxybis(1-Chloropr...	5.255	45	27870	2.42	ppm		98
21) 3&4-Methylphenol	5.373	108	20741	2.03	ppm		91
22) n-Nitroso-di-n-propyla...	5.373	70	13699	2.16	ppm		93
23) Hexachloroethane	5.485	201	7554	2.03	ppm		88
26) Nitrobenzene	5.539	77	18592	1.88	ppm		96
27) Quinoline	6.554	129	42920	2.03	ppm		99
28) Isophorone	5.763	82	35784	2.02	ppm		96
29) 2-Nitrophenol	5.843	139	11741	1.86	ppm		88
30) 2,4-Dimethylphenol	5.880	107	21793	2.15	ppm		93
32) bis(2-Chloroethoxy)met...	5.966	93	23096	2.15	ppm		98
33) 2,4-Dichlorophenol	6.078	162	18248	2.05	ppm		90
34) 2,6-Dichlorophenol	6.292	162	18491	2.12	ppm		98
35) 1,3,5-Trichlorobenzene	5.854	180	21086	2.26	ppm		98
36) 1,2,4-Trichlorobenzene	6.153	180	18835	2.12	ppm		95
37) 1,2,3-Trichlorobenzene	6.372	180	18494	2.11	ppm		95
38) Naphthalene	6.228	128	62033	2.08	ppm		98
39) 4-Chloroaniline	6.281	127	25567	2.01	ppm		94
40) 2,3-Dichloroaniline	7.179	161	22238	2.12	ppm		96
41) Caprolactam	6.586	55	8751	2.04	ppm		94
42) Hexachlorobutadiene	6.356	225	9555	2.01	ppm		99
43) 4-Chloro-3-methylphenol	6.757	107	19051	2.10	ppm		89
44) 2-Methylnaphthalene	6.901	141	35775	2.07	ppm		93
45) 1-Methylnaphthalene	6.997	141	39283	2.20	ppm		94
46) Dimethylnaphthalene	7.510	156	37628	2.08	ppm		90
48) Hexachlorocyclopentadiene	7.066	237	12676	2.37	ppm		97
49) 2,4,6-Trichlorophenol	7.184	196	11352	1.92	ppm		94
50) 2,4,5-Trichlorophenol	7.227	196	11627	1.94	ppm		86
52) 2-Chloronaphthalene	7.376	162	40211	2.25	ppm		95
53) Biphenyl	7.355	154	52074	2.09	ppm		98
54) 2-Nitroaniline	7.473	65	9218	1.78	ppm		95
55) Dimethylphthalate	7.654	163	33127	1.63	ppm		97
56) Acenaphthylene	7.782	152	51336	1.68	ppm		100
57) 2,6-Dinitrotoluene	7.708	165	6796	1.40	ppm		83
58) 3-Nitroaniline	7.878	138	10280	1.79	ppm		89
59) Acenaphthene	7.953	153	39824	2.15	ppm		96
60) 2,4-Dinitrophenol	7.996	184	1542	0.57	ppm	#	35
61) 4-Nitrophenol	8.060	109	4126	1.48	ppm	#	51
62) Dibenzofuran	8.124	168	51104	2.06	ppm		92
63) 2,4-Dinitrotoluene	8.103	165	11489	1.77	ppm		93
64) 2,3,4,6-Tetrachlorophenol	8.252	232	7220	1.38	ppm		89
65) Diethylphthalate	8.343	149	37479	1.85	ppm		96
66) Fluorene	8.466	166	43514	2.11	ppm		95
67) 4-Chlorophenyl-phenyle...	8.466	204	18651	2.08	ppm		98
68) 4-Nitroaniline	8.482	138	10708	1.86	ppm		90
70) 4,6-Dinitro-2-methylph...	8.514	198	2221	0.59	ppm		91
71) n-Nitrosodiphenylamine	8.584	169	29252	2.17	ppm		99
72) 1,2-Diphenylhydrazine	8.626	77	37470	2.02	ppm		97
74) 4-Bromophenyl-phenylether	8.979	248	11986	2.13	ppm		90
75) Hexachlorobenzene	9.054	284	12211	2.08	ppm		92

SGS ACCUTEST JC24133

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E5P1496\
Data File : 5p29327.D
Acq On : 1 Jul 2016 12:38 pm
Operator : kristis
Sample : ic1496-2
Misc : op94797,e5p1496,1000,,,1,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 01 13:27:17 2016
Quant Method : C:\MSDCHEM\1\METHODS\M5P1496.M
Quant Title : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
QLast Update : Fri Jul 01 13:25:18 2016
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
76)	Pentachlorophenol	9.273	266	4652	1.31	ppm	87
77)	Phenanthrene	9.508	178	58184	2.12	ppm	99
78)	Anthracene	9.567	178	59522	2.11	ppm	98
79)	Carbazole	9.754	167	58515	2.12	ppm	98
80)	Di-n-butylphthalate	10.192	149	68589	1.98	ppm	96
81)	Fluoranthene	11.004	202	60566	2.09	ppm	93
82)	Octadecane	9.364	57	24048	2.01	ppm	93
84)	Pyrene	11.314	202	64100	2.17	ppm	96
86)	Butylbenzylphthalate	12.275	149	30098	1.97	ppm	96
87)	Benzo[a]anthracene	13.055	228	60500	2.18	ppm	96
88)	3,3'-Dichlorobenzidine	13.039	252	22612	2.13	ppm	94
89)	Chrysene	13.109	228	57089	2.11	ppm	97
90)	bis(2-Ethylhexyl)phtha...	13.173	149	40555	1.94	ppm	97
92)	Di-n-octylphthalate	14.129	149	70173	1.92	ppm	98
93)	Benzo[b]fluoranthene	14.604	252	58869m	2.03	ppm	
94)	Benzo[k]fluoranthene	14.642	252	60220	2.30	ppm	92
95)	Benzo[a]pyrene	15.048	252	52974	2.08	ppm	87
96)	Indeno[1,2,3-cd]pyrene	16.816	276	44918m	1.73	ppm	
97)	Dibenz(a,h)acridine	16.426	279	46979	2.04	ppm	99
98)	Dibenz[a,h]anthracene	16.864	278	51177	2.00	ppm	81
99)	7,12-Dimethylbenz(a)an...	14.599	256	26040	1.95	ppm	91
100)	Benzo[g,h,i]perylene	17.313	276	50457	1.91	ppm	82

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

7.6.32

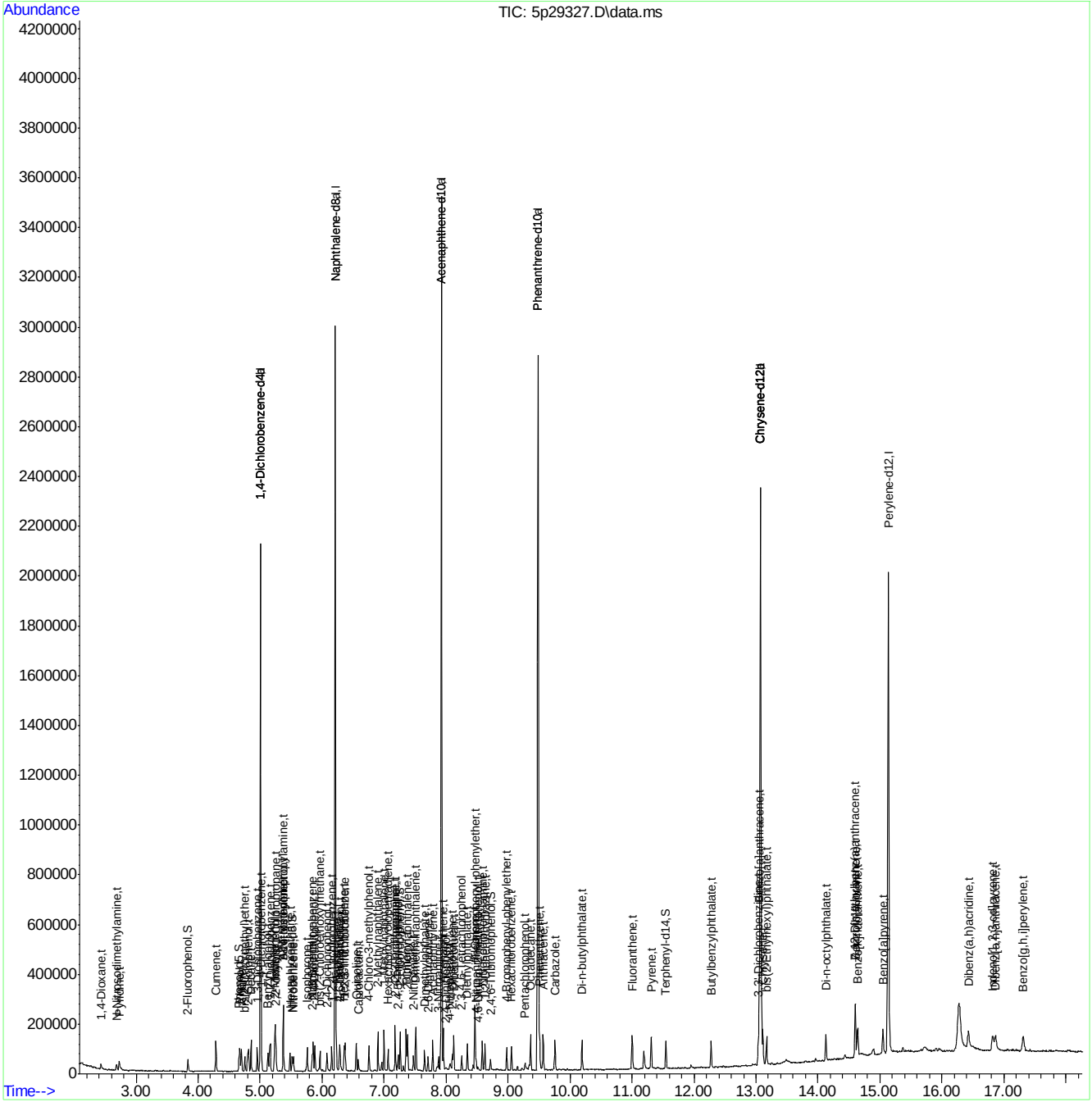
7

SGS ACCUTEST JC24133

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E5P1496\
Data File : 5p29327.D
Acq On : 1 Jul 2016 12:38 pm
Operator : kristis
Sample : ic1496-2
Misc : op94797,e5p1496,1000,,,1,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 01 13:27:17 2016
Quant Method : C:\MSDCHEM\1\METHODS\M5P1496.M
Quant Title : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
QLast Update : Fri Jul 01 13:25:18 2016
Response via : Initial Calibration



SGS ACCUTEST JC24133

Manual Integration Approval Summary

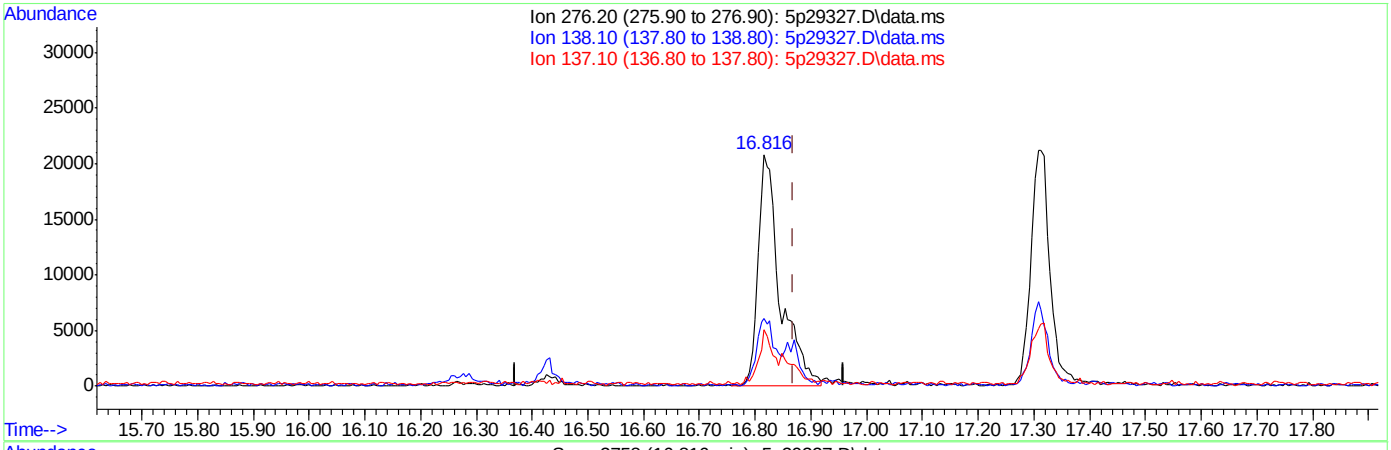
Sample Number:	E5P1496-IC1496	**Method:**	SW846 8270D
Lab FileID:	5P29327.D	**Analyst approved:**	07/03/16 16:26 Kristi Schollenberger
Injection Time:	07/01/16 12:38	**Supervisor approved:**	07/05/16 10:03 Nina Pandya

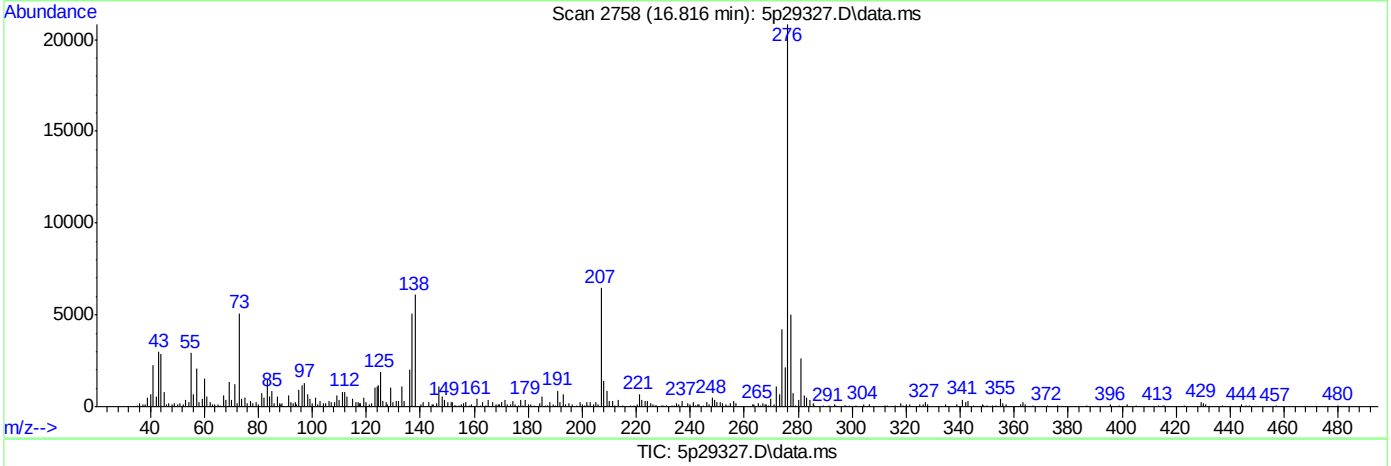
Parameter	CAS	Sig#	R.T. (min.)	Reason
Benzo(b)fluoranthene	205-99-2		14.60	Overlapping peak
Indeno(1,2,3-cd)pyrene	193-39-5		16.82	Overlapping peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E5P1496\
Data File : 5p29327.D
Acq On : 1 Jul 2016 12:38 pm
Operator : kristis
Sample : ic1496-2
Misc : op94797,e5p1496,1000,,,1,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 01 13:25:22 2016
Quant Method : C:\MSDCHEM\1\METHODS\M5P1496.M
Quant Title : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
QLast Update : Fri Jul 01 13:25:18 2016
Response via : Initial Calibration





(96) Indeno[1,2,3-cd]pyrene (t)

16.816min (-0.053) 2.23ppm

response 58071

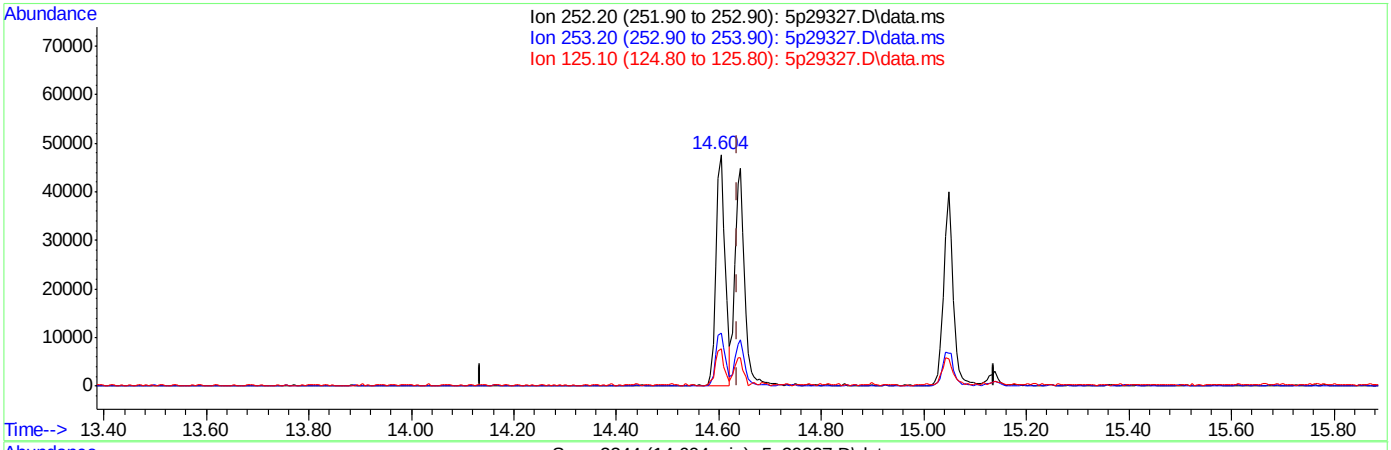
Ion	Exp%	Act%
276.20	100	100
138.10	46.90	28.03
137.10	32.70	23.03
0.00	0.00	0.00

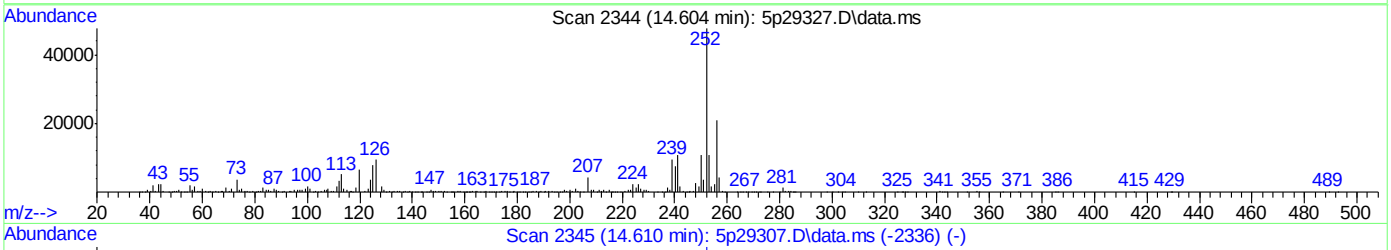
SGS ACCUTEST JC24133

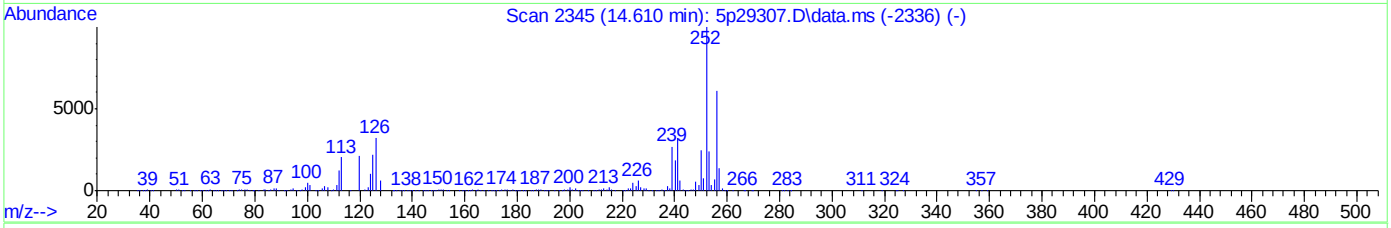
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E5P1496\
Data File : 5p29327.D
Acq On : 1 Jul 2016 12:38 pm
Operator : kristis
Sample : ic1496-2
Misc : op94797,e5p1496,1000,,,1,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 01 13:27:17 2016
Quant Method : C:\MSDCHEM\1\METHODS\M5P1496.M
Quant Title : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
QLast Update : Fri Jul 01 13:25:18 2016
Response via : Initial Calibration







TIC: 5p29327.D\data.ms

(93) Benzo[b]fluoranthene (t)

14.604min (-0.032) 2.03ppm m

response 58869

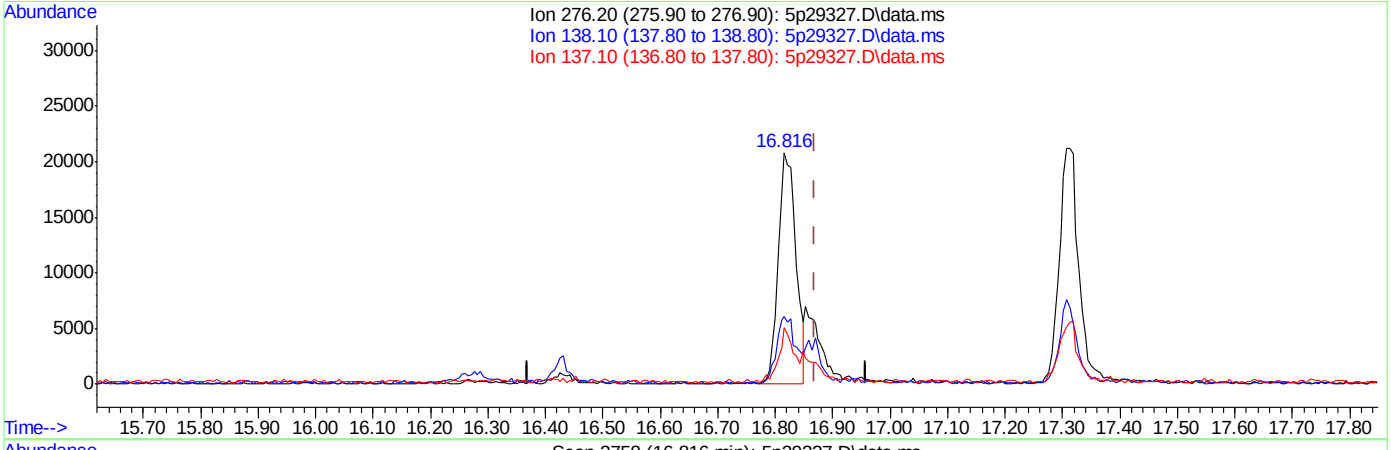
Ion	Exp%	Act%
252.20	100	100
253.20	26.00	22.99
125.10	23.40	16.37
0.00	0.00	0.00

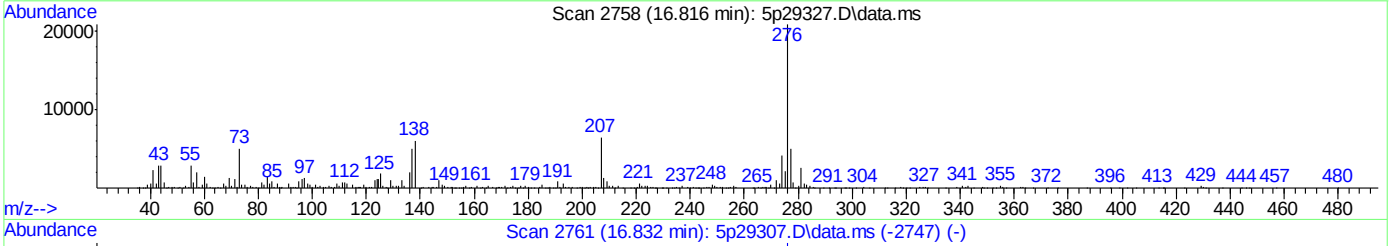
SGS ACCUTEST JC24133

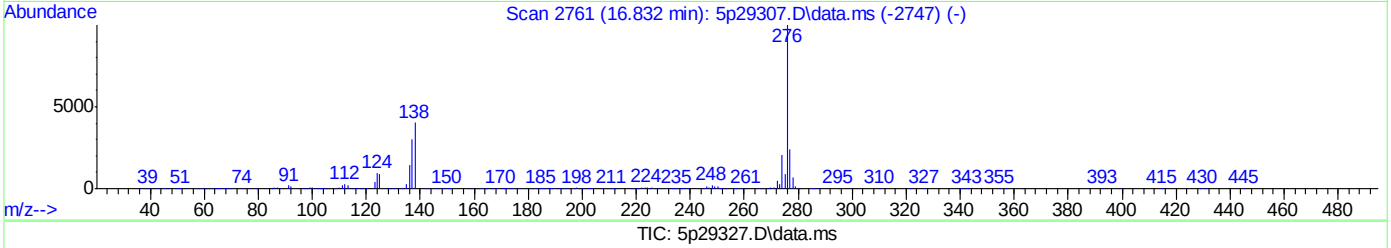
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E5P1496\
Data File : 5p29327.D
Acq On : 1 Jul 2016 12:38 pm
Operator : kristis
Sample : ic1496-2
Misc : op94797,e5p1496,1000,,,1,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 01 13:27:17 2016
Quant Method : C:\MSDCHEM\1\METHODS\M5P1496.M
Quant Title : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
QLast Update : Fri Jul 01 13:25:18 2016
Response via : Initial Calibration







TIC: 5p29327.D\data.ms

(96) Indeno[1,2,3-cd]pyrene (t)

16.816min (-0.053) 1.73ppm m

response 44918

Ion	Exp%	Act%
276.20	100	100
138.10	46.90	29.29
137.10	32.70	24.44
0.00	0.00	0.00

SGS ACCUTEST JC24133

Manual Integrations APPROVED (compounds with "m" flag)
Nina Pandya
07/05/16 10:03

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E5P1496\
Data File : 5p29328.D
Acq On : 1 Jul 2016 1:04 pm
Operator : kristis
Sample : ic1496-80
Misc : op94797,e5p1496,1000,,,1,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jul 01 13:29:12 2016
Quant Method : C:\MSDCHEM\1\METHODS\M5P1496.M
Quant Title : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
QLast Update : Fri Jul 01 12:34:01 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	5.004	152	276957	40.00	ppm	0.00
24) Naphthalene-d8	6.212	136	1223612	40.00	ppm	0.00
47) Acenaphthene-d10	7.927	164	750062	40.00	ppm	0.00
69) Phenanthrene-d10	9.487	188	1218992	40.00	ppm	0.00
83) Chrysene-d12	13.087	240	993755	40.00	ppm	0.00
91) Perylene-d12	15.144	264	974655	40.00	ppm	0.00
101) 1,4-Dichlorobenzene-d4a	5.004	152	276957	40.00	ppm	0.00
103) Acenaphthene-d10a	7.927	164	750062	40.00	ppm	0.00
105) Chrysene-d12a	13.087	240	993931	40.00	ppm	0.00
108) Phenanthrene-d10a	9.487	188	1218992	40.00	ppm	0.00
111) Naphthalene-d8a	6.212	136	1223612	40.00	ppm	0.00
113) Chrysene-d12b	13.087	240	993931	40.00	ppm	0.00
115) 1,4-Dichlorobenzene-d4b	5.004	152	276957	40.00	ppm	0.00
117) Chrysene-d12c	13.087	240	993931	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	3.834	112	725908	84.19	ppm	0.00
Spiked Amount 50.000			Recovery	=	168.38%	
8) Phenol-d5	4.673	99	874624	83.45	ppm	0.00
Spiked Amount 50.000			Recovery	=	166.90%	
25) Nitrobenzene-d5	5.528	82	693591	75.09	ppm	0.00
Spiked Amount 50.000			Recovery	=	150.18%	
51) 2-Fluorobiphenyl	7.264	172	1428914	74.55	ppm	0.00
Spiked Amount 50.000			Recovery	=	149.10%	
73) 2,4,6-Tribromophenol	8.723	330	208763	76.93	ppm	0.00
Spiked Amount 50.000			Recovery	=	153.86%	
85) Terphenyl-d14	11.554	244	1470674	79.32	ppm	0.00
Spiked Amount 50.000			Recovery	=	158.64%	
107) 1-chlorooctadecane	0.000	57	0d	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
109) o-terphenyl	0.000	230	0d	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
Target Compounds						Qvalue
2) 1,4-Dioxane	2.424	88	293334	81.96	ppm	94
3) Pyridine	2.707	79	773597	87.36	ppm	92
4) N-Nitrosodimethylamine	2.675	74	440744	88.10	ppm	85
6) Indene	5.250	116	1212415	77.45	ppm	97
7) Cumene	4.289	105	1757551	81.94	ppm	97
9) Phenol	4.684	94	1018436	82.58	ppm	88
10) Aniline	4.705	93	1039231	86.24	ppm	98
11) bis(2-Chloroethyl)ether	4.759	93	654628	84.18	ppm	94
12) 2-Chlorophenol	4.817	128	795706	82.33	ppm	96
13) Decane	4.860	43	648715	80.66	ppm	95
14) 1,3-Dichlorobenzene	4.956	146	845441	82.03	ppm	99
15) 1,4-Dichlorobenzene	5.020	146	781617	76.42	ppm	98
16) Benzyl alcohol	5.138	108	453145	78.01	ppm	96
17) 1,2-Dichlorobenzene	5.165	146	728583	77.26	ppm	99
18) Acetophenone	5.384	105	928877	75.87	ppm	93

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E5P1496\
Data File : 5p29328.D
Acq On : 1 Jul 2016 1:04 pm
Operator : kristis
Sample : ic1496-80
Misc : op94797,e5p1496,1000,,,1,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jul 01 13:29:12 2016
Quant Method : C:\MSDCHEM\1\METHODS\M5P1496.M
Quant Title : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
QLast Update : Fri Jul 01 12:34:01 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
19) 2-Methylphenol	5.239	108	635574	79.69	ppm		98
20) 2,2'-oxybis(1-Chloropr...	5.255	45	804688	81.82	ppm		92
21) 3&4-Methylphenol	5.384	108	668528	76.89	ppm		96
22) n-Nitroso-di-n-propyla...	5.384	70	413742	76.55	ppm		100
23) Hexachloroethane	5.485	201	263138	82.77	ppm		96
26) Nitrobenzene	5.544	77	695085	74.35	ppm		98
27) Quinoline	6.564	129	1559625	78.21	ppm		99
28) Isophorone	5.774	82	1270116	75.95	ppm		98
29) 2-Nitrophenol	5.848	139	453129	75.93	ppm		94
30) 2,4-Dimethylphenol	5.891	107	715830	74.56	ppm		95
31) Benzoic acid	6.025	105	510772m	73.22	ppm		
32) bis(2-Chloroethoxy)met...	5.971	93	761637	74.95	ppm		98
33) 2,4-Dichlorophenol	6.084	162	656018	77.89	ppm		97
34) 2,6-Dichlorophenol	6.297	162	612712	74.17	ppm		99
35) 1,3,5-Trichlorobenzene	5.859	180	659439	74.86	ppm		98
36) 1,2,4-Trichlorobenzene	6.158	180	647186	76.93	ppm		98
37) 1,2,3-Trichlorobenzene	6.377	180	620942	74.96	ppm		98
38) Naphthalene	6.233	128	2132883	75.71	ppm		99
39) 4-Chloroaniline	6.287	127	902930	75.25	ppm		99
40) 2,3-Dichloroaniline	7.184	161	726707	73.22	ppm		99
41) Caprolactam	6.655	55	307926	76.04	ppm		92
42) Hexachlorobutadiene	6.361	225	330126	73.42	ppm		100
43) 4-Chloro-3-methylphenol	6.767	107	645302	75.12	ppm		99
44) 2-Methylnaphthalene	6.906	141	1208853	73.96	ppm		97
45) 1-Methylnaphthalene	7.002	141	1270279	75.42	ppm		94
46) Dimethylnaphthalene	7.521	156	1266632	74.13	ppm		95
48) Hexachlorocyclopentadiene	7.066	237	707369	139.35	ppm		100
49) 2,4,6-Trichlorophenol	7.189	196	408142	72.71	ppm		98
50) 2,4,5-Trichlorophenol	7.227	196	440239	77.41	ppm		99
52) 2-Chloronaphthalene	7.382	162	1272827	74.93	ppm		96
53) Biphenyl	7.366	154	1725580	73.09	ppm		99
54) 2-Nitroaniline	7.483	65	358528	73.13	ppm		97
55) Dimethylphthalate	7.659	163	1434141	74.34	ppm		97
56) Acenaphthylene	7.788	152	2162055	74.76	ppm		99
57) 2,6-Dinitrotoluene	7.718	165	346542	75.21	ppm		95
58) 3-Nitroaniline	7.889	138	423749	77.59	ppm		96
59) Acenaphthene	7.964	153	1283943	73.06	ppm		95
60) 2,4-Dinitrophenol	7.991	184	372644	145.30	ppm	#	68
61) 4-Nitrophenol	8.060	109	185006	69.72	ppm	#	66
62) Dibenzofuran	8.130	168	1762979	74.86	ppm		93
63) 2,4-Dinitrotoluene	8.114	165	467530	75.98	ppm		98
64) 2,3,4,6-Tetrachlorophenol	8.258	232	372842	75.35	ppm		100
65) Diethylphthalate	8.359	149	1416352	73.59	ppm		99
66) Fluorene	8.477	166	1358648	69.59	ppm		97
67) 4-Chlorophenyl-phenyle...	8.472	204	585526	68.80	ppm		99
68) 4-Nitroaniline	8.504	138	421323	77.04	ppm		83
70) 4,6-Dinitro-2-methylph...	8.530	198	274684	75.12	ppm		95
71) n-Nitrosodiphenylamine	8.594	169	985088	75.27	ppm		100
72) 1,2-Diphenylhydrazine	8.632	77	1283246	71.33	ppm		96
74) 4-Bromophenyl-phenylether	8.984	248	403997	73.94	ppm		99

SGS ACCUTEST JC24133

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E5P1496\
Data File : 5p29328.D
Acq On : 1 Jul 2016 1:04 pm
Operator : kristis
Sample : ic1496-80
Misc : op94797,e5p1496,1000,,,1,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jul 01 13:29:12 2016
Quant Method : C:\MSDCHEM\1\METHODS\M5P1496.M
Quant Title : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
QLast Update : Fri Jul 01 12:34:01 2016
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
75)	Hexachlorobenzene	9.064	284	430515	75.52	ppm	96
76)	Pentachlorophenol	9.284	266	487483	141.67	ppm	98
77)	Phenanthrene	9.519	178	1976548	74.20	ppm	99
78)	Anthracene	9.577	178	2053194	75.07	ppm	99
79)	Carbazole	9.764	167	2024922	75.67	ppm	98
80)	Di-n-butylphthalate	10.197	149	2475615	73.45	ppm	99
81)	Fluoranthene	11.014	202	2140958	76.13	ppm	96
82)	Octadecane	9.369	57	845118	72.68	ppm	97
84)	Pyrene	11.319	202	2200140	78.69	ppm	99
86)	Butylbenzylphthalate	12.281	149	1117674	77.17	ppm	99
87)	Benzo[a]anthracene	13.066	228	1998758	75.76	ppm	99
88)	3,3'-Dichlorobenzidine	13.050	252	794644	78.73	ppm	95
89)	Chrysene	13.125	228	1990445	77.48	ppm	99
90)	bis(2-Ethylhexyl)phtha...	13.178	149	1507683	75.92	ppm	97
92)	Di-n-octylphthalate	14.134	149	2702920	72.43	ppm	97
93)	Benzo[b]fluoranthene	14.631	252	2103816	71.36	ppm	92
94)	Benzo[k]fluoranthene	14.669	252	1945308	72.98	ppm	92
95)	Benzo[a]pyrene	15.069	252	1946385	75.14	ppm	93
96)	Indeno[1,2,3-cd]pyrene	16.859	276	1977236m	74.61	ppm	
97)	Dibenz(a,h)acridine	16.458	279	1788596	76.16	ppm	98
98)	Dibenz[a,h]anthracene	16.902	278	1972213	75.61	ppm	85
99)	7,12-Dimethylbenz(a)an...	14.626	256	959893	70.47	ppm	97
100)	Benzo[g,h,i]perylene	17.361	276	2016996	74.82	ppm	81

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

7.6.33

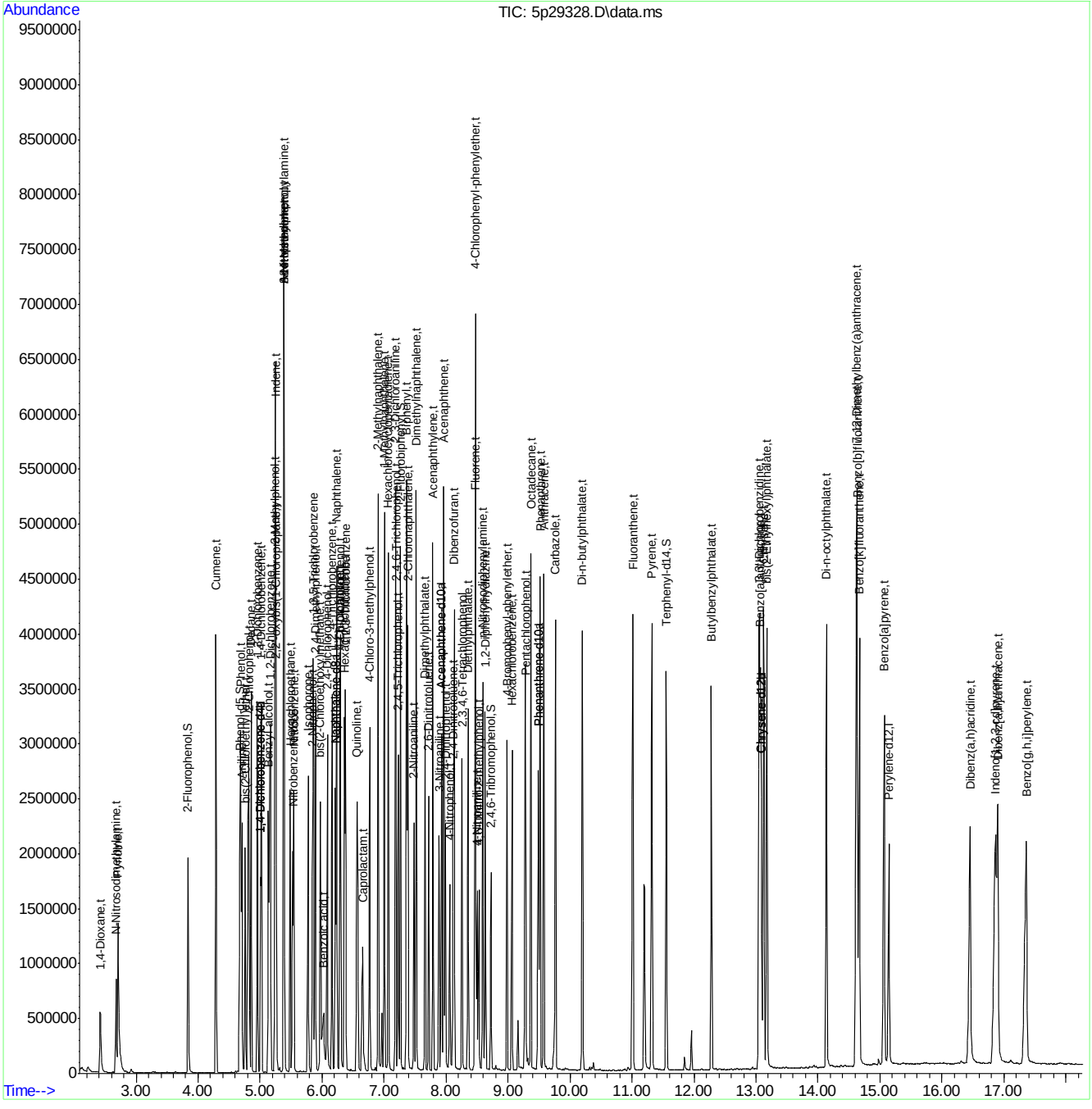
7

SGS ACCUTEST JC24133

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E5P1496\
Data File : 5p29328.D
Acq On : 1 Jul 2016 1:04 pm
Operator : kristis
Sample : ic1496-80
Misc : op94797,e5p1496,1000,,,1,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jul 01 13:29:12 2016
Quant Method : C:\MSDCHEM\1\METHODS\M5P1496.M
Quant Title : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
QLast Update : Fri Jul 01 12:34:01 2016
Response via : Initial Calibration



SGS ACCUTEST JC24133

Manual Integration Approval Summary

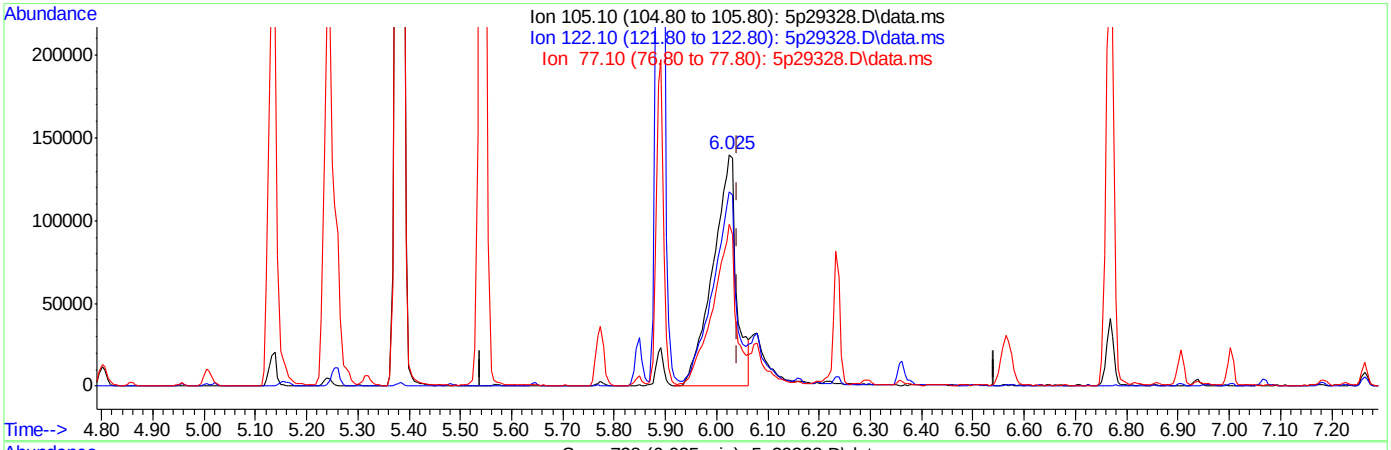
Sample Number:	E5P1496-IC1496	**Method:**	SW846 8270D
Lab FileID:	5P29328.D	**Analyst approved:**	07/03/16 16:26 Kristi Schollenberger
Injection Time:	07/01/16 13:04	**Supervisor approved:**	07/05/16 10:03 Nina Pandya

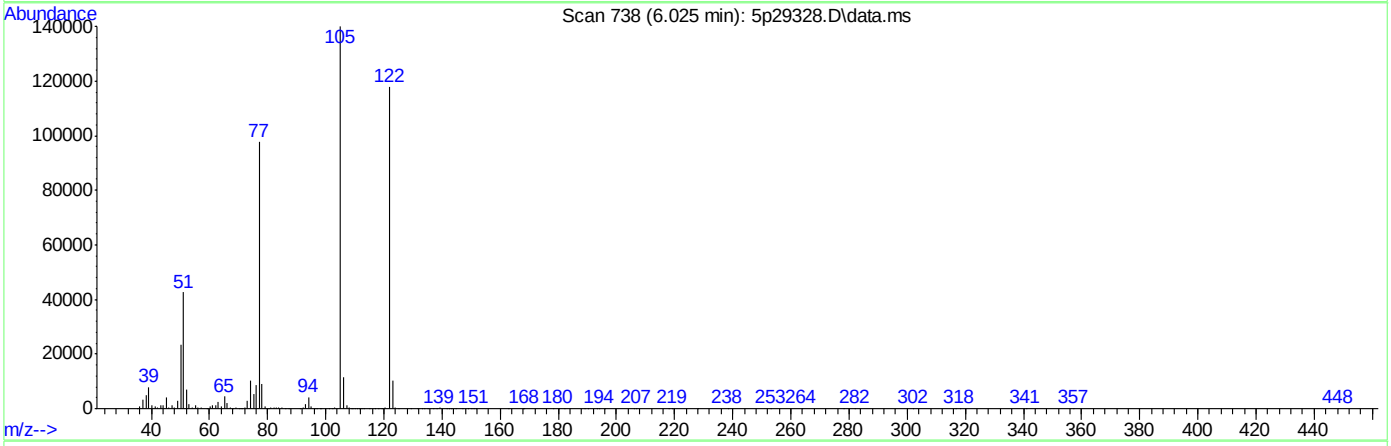
Parameter	CAS	Sig#	R.T. (min.)	Reason
Benzoic acid	65-85-0		6.02	Split peak
Indeno(1,2,3-cd)pyrene	193-39-5		16.86	Overlapping peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E5P1496\
Data File : 5p29328.D
Acq On : 1 Jul 2016 1:04 pm
Operator : kristis
Sample : ic1496-80
Misc : op94797,e5p1496,1000,,,1,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jul 01 13:22:38 2016
Quant Method : C:\MSDCHEM\1\METHODS\M5P1496.M
Quant Title : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
QLast Update : Fri Jul 01 12:34:01 2016
Response via : Initial Calibration





TIC: 5p29328.D\data.ms

(31) Benzoic acid (t)

6.025min (-0.016) 63.62ppm

response 443778

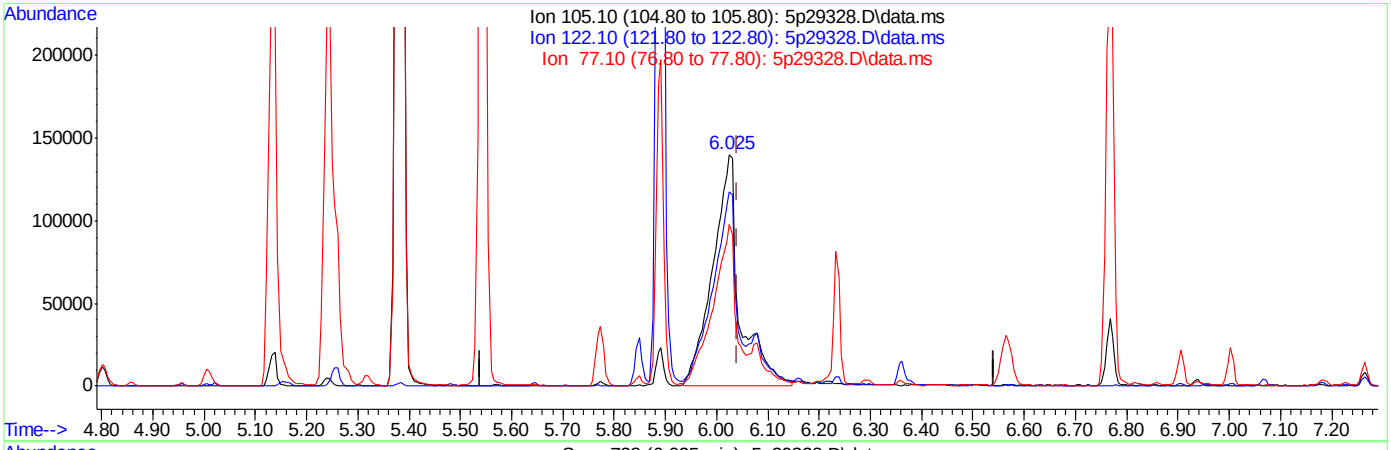
Ion	Exp%	Act%
105.10	100	100
122.10	85.00	81.34
77.10	68.90	69.25
0.00	0.00	0.00

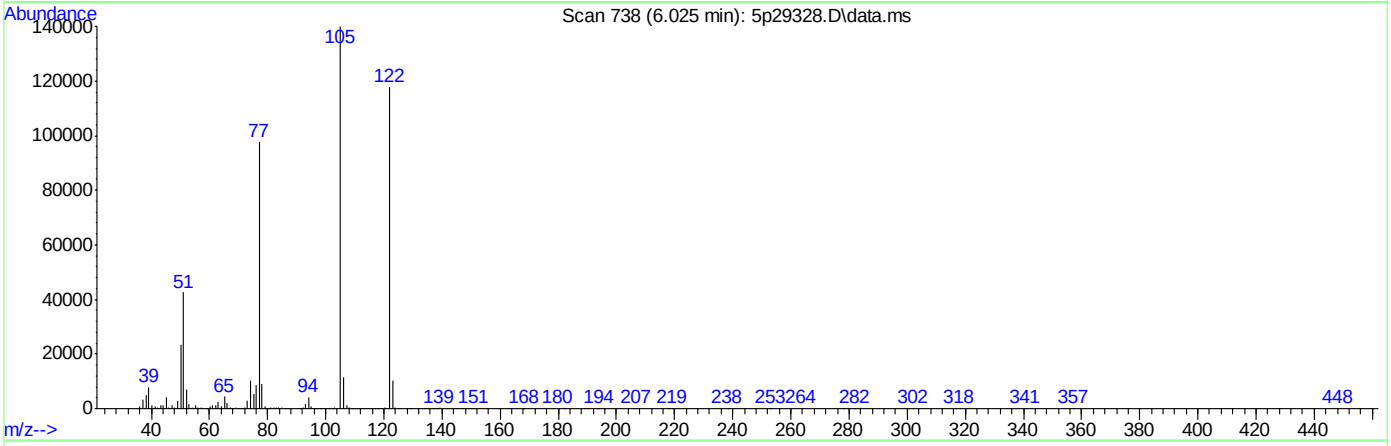
SGS ACCUTEST JC24133

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E5P1496\
Data File : 5p29328.D
Acq On : 1 Jul 2016 1:04 pm
Operator : kristis
Sample : ic1496-80
Misc : op94797,e5p1496,1000,,,1,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jul 01 13:22:38 2016
Quant Method : C:\MSDCHEM\1\METHODS\M5P1496.M
Quant Title : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
QLast Update : Fri Jul 01 12:34:01 2016
Response via : Initial Calibration





TIC: 5p29328.D\data.ms

(31) Benzoic acid (t)

6.025min (-0.016) 73.22ppm m

response 510772

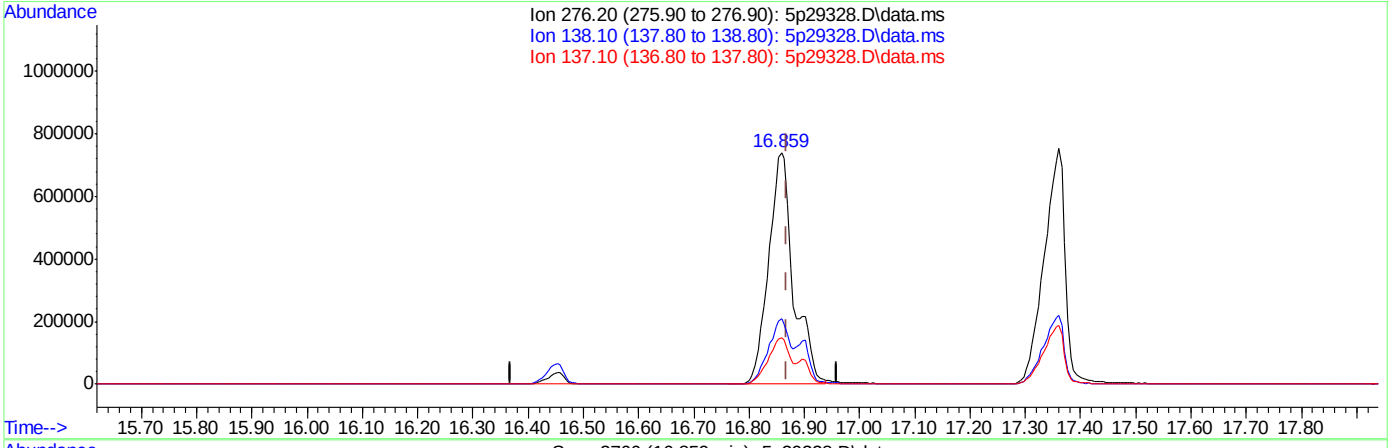
Ion	Exp%	Act%
105.10	100	100
122.10	85.00	84.07
77.10	68.90	69.70
0.00	0.00	0.00

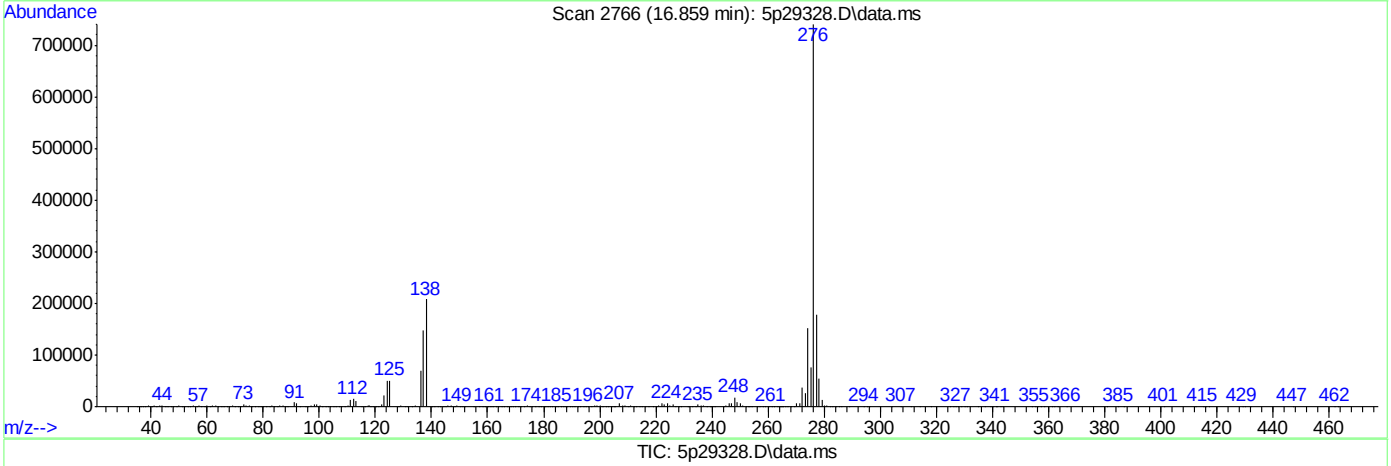
SGS ACCUTEST JC24133

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E5P1496\
Data File : 5p29328.D
Acq On : 1 Jul 2016 1:04 pm
Operator : kristis
Sample : ic1496-80
Misc : op94797,e5p1496,1000,,,1,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jul 01 13:22:38 2016
Quant Method : C:\MSDCHEM\1\METHODS\M5P1496.M
Quant Title : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
QLast Update : Fri Jul 01 12:34:01 2016
Response via : Initial Calibration





TIC: 5p29328.D\data.ms

(96) Indeno[1,2,3-cd]pyrene (t)

16.859min (-0.011) 87.47ppm

response 2318139

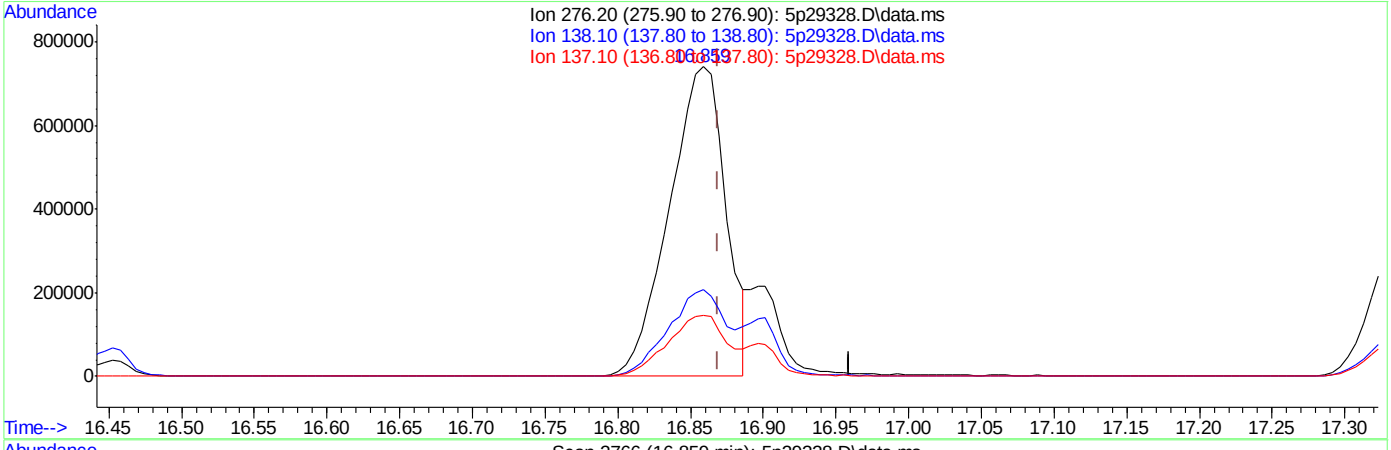
Ion	Exp%	Act%
276.20	100	100
138.10	46.90	28.02
137.10	32.70	19.77
0.00	0.00	0.00

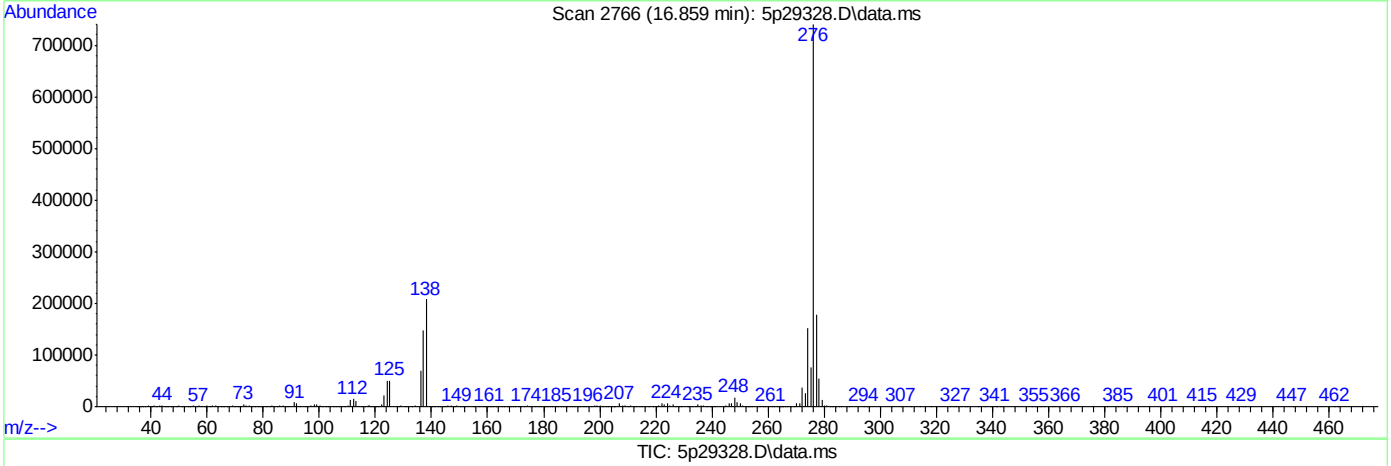
SGS ACCUTEST JC24133

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E5P1496\
Data File : 5p29328.D
Acq On : 1 Jul 2016 1:04 pm
Operator : kristis
Sample : ic1496-80
Misc : op94797,e5p1496,1000,,,1,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jul 01 13:22:38 2016
Quant Method : C:\MSDCHEM\1\METHODS\M5P1496.M
Quant Title : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
QLast Update : Fri Jul 01 12:34:01 2016
Response via : Initial Calibration





TIC: 5p29328.D\data.ms

(96) Indeno[1,2,3-cd]pyrene (t)

16.859min (-0.011) 74.61ppm m

response 1977236

Ion	Exp%	Act%
276.20	100	100
138.10	46.90	28.15
137.10	32.70	19.85
0.00	0.00	0.00

SGS ACCUTEST JC24133

Manual Integrations APPROVED (compounds with "m" flag)
Nina Pandya
07/05/16 10:03

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E5P1496\
Data File : 5p29329.D
Acq On : 1 Jul 2016 1:30 pm
Operator : kristis
Sample : ic1496-1
Misc : op94797,e5p1496,1000,,,1,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jul 01 14:08:55 2016
Quant Method : C:\MSDCHEM\1\METHODS\M5P1496.M
Quant Title : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
QLast Update : Fri Jul 01 13:31:51 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	5.004	152	349844	40.00	ppm	0.00
24) Naphthalene-d8	6.212	136	1388720	40.00	ppm	0.00
47) Acenaphthene-d10	7.927	164	847290	40.00	ppm	0.00
69) Phenanthrene-d10	9.481	188	1320776	40.00	ppm	0.00
83) Chrysene-d12	13.071	240	1117137	40.00	ppm	-0.02
91) Perylene-d12	15.139	264	1023025	40.00	ppm	0.00
101) 1,4-Dichlorobenzene-d4a	5.004	152	349844	40.00	ppm	0.00
103) Acenaphthene-d10a	7.927	164	847290	40.00	ppm	0.00
105) Chrysene-d12a	13.071	240	1117219	40.00	ppm	-0.02
108) Phenanthrene-d10a	9.481	188	1320776	40.00	ppm	0.00
111) Naphthalene-d8a	6.212	136	1388720	40.00	ppm	0.00
113) Chrysene-d12b	13.071	240	1117219	40.00	ppm	-0.02
115) 1,4-Dichlorobenzene-d4b	5.004	152	349844	40.00	ppm	0.00
117) Chrysene-d12c	13.071	240	1117219	40.00	ppm	-0.02
System Monitoring Compounds						
5) 2-Fluorophenol	3.834	112	10689	1.02	ppm	0.00
Spiked Amount 50.000			Recovery	=	2.04%	
8) Phenol-d5	4.662	99	11544	0.87	ppm	-0.01
Spiked Amount 50.000			Recovery	=	1.74%	
25) Nitrobenzene-d5	5.517	82	10545	1.07	ppm	-0.01
Spiked Amount 50.000			Recovery	=	2.14%	
51) 2-Fluorobiphenyl	7.259	172	23816	1.09	ppm	0.00
Spiked Amount 50.000			Recovery	=	2.18%	
73) 2,4,6-Tribromophenol	8.717	330	2937	1.04	ppm	0.00
Spiked Amount 50.000			Recovery	=	2.08%	
85) Terphenyl-d14	11.543	244	21861	1.04	ppm	-0.01
Spiked Amount 50.000			Recovery	=	2.08%	
107) 1-chlorooctadecane	0.000	57	0d	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
109) o-terphenyl	0.000	230	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
Target Compounds						Qvalue
2) 1,4-Dioxane	2.435	88	5648	1.17	ppm	97
3) Pyridine	2.734	79	11555	0.99	ppm	90
4) N-Nitrosodimethylamine	2.686	74	6476	0.98	ppm	89
6) Indene	5.245	116	20704	1.03	ppm	94
7) Cumene	4.288	105	28617	1.03	ppm	98
9) Phenol	4.673	94	14517	0.93	ppm	98
10) Aniline	4.700	93	17621	1.08	ppm	98
11) bis(2-Chloroethyl)ether	4.753	93	10029	0.98	ppm	97
12) 2-Chlorophenol	4.812	128	12774	1.02	ppm	96
13) Decane	4.855	43	11642	1.09	ppm	97
14) 1,3-Dichlorobenzene	4.951	146	14216	1.05	ppm	99
15) 1,4-Dichlorobenzene	5.020	146	14658	1.13	ppm	93
16) Benzyl alcohol	5.127	108	6842	0.94	ppm	98
17) 1,2-Dichlorobenzene	5.165	146	13868	1.13	ppm	95
18) Acetophenone	5.373	105	16160	1.05	ppm	96

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E5P1496\
Data File : 5p29329.D
Acq On : 1 Jul 2016 1:30 pm
Operator : kristis
Sample : ic1496-1
Misc : op94797,e5p1496,1000,,,1,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jul 01 14:08:55 2016
Quant Method : C:\MSDCHEM\1\METHODS\M5P1496.M
Quant Title : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
QLast Update : Fri Jul 01 13:31:51 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
19) 2-Methylphenol	5.234	108	10135	0.99	ppm		97
20) 2,2'-oxybis(1-Chloropr...	5.255	45	14277	1.07	ppm		96
21) 3&4-Methylphenol	5.373	108	11220	1.03	ppm		94
22) n-Nitroso-di-n-propyla...	5.373	70	7533	1.09	ppm		95
23) Hexachloroethane	5.480	201	3840	0.94	ppm		93
26) Nitrobenzene	5.539	77	11170	1.10	ppm		90
27) Quinoline	6.548	129	24168	1.07	ppm		100
28) Isophorone	5.763	82	16246	0.87	ppm		95
29) 2-Nitrophenol	5.843	139	6292	0.97	ppm		92
30) 2,4-Dimethylphenol	5.880	107	12101	1.11	ppm		98
32) bis(2-Chloroethoxy)met...	5.966	93	12765	1.10	ppm		99
33) 2,4-Dichlorophenol	6.078	162	9470	0.99	ppm		96
34) 2,6-Dichlorophenol	6.292	162	10373	1.11	ppm		87
35) 1,3,5-Trichlorobenzene	5.854	180	11339	1.11	ppm		94
36) 1,2,4-Trichlorobenzene	6.153	180	10485	1.09	ppm		92
37) 1,2,3-Trichlorobenzene	6.372	180	10065	1.07	ppm		96
38) Naphthalene	6.228	128	34931	1.10	ppm		95
39) 4-Chloroaniline	6.281	127	13490	1.01	ppm		99
40) 2,3-Dichloroaniline	7.179	161	11491	1.03	ppm		98
41) Caprolactam	6.586	55	4623	1.02	ppm		93
42) Hexachlorobutadiene	6.356	225	5225	1.05	ppm		96
43) 4-Chloro-3-methylphenol	6.757	107	8382	0.86	ppm		93
44) 2-Methylnaphthalene	6.901	141	16571	0.91	ppm		93
45) 1-Methylnaphthalene	6.997	141	20783	1.07	ppm		100
46) Dimethylnaphthalene	7.510	156	20133	1.05	ppm		98
48) Hexachlorocyclopentadiene	7.066	237	5850	1.24	ppm		84
49) 2,4,6-Trichlorophenol	7.179	196	6347	1.05	ppm		85
50) 2,4,5-Trichlorophenol	7.227	196	6513	1.04	ppm		92
52) 2-Chloronaphthalene	7.376	162	21636	1.11	ppm		97
53) Biphenyl	7.355	154	28728	1.09	ppm		99
54) 2-Nitroaniline	7.472	65	5443	1.05	ppm		88
55) Dimethylphthalate	7.649	163	22470	1.13	ppm		100
56) Acenaphthylene	7.782	152	33887	1.12	ppm		96
57) 2,6-Dinitrotoluene	7.707	165	4292	0.94	ppm		97
58) 3-Nitroaniline	7.878	138	5546	0.94	ppm	#	66
59) Acenaphthene	7.953	153	20522	1.04	ppm		96
61) 4-Nitrophenol	8.071	109	1826	0.70	ppm	#	79
62) Dibenzofuran	8.124	168	30408	1.16	ppm		93
63) 2,4-Dinitrotoluene	8.103	165	5627	0.86	ppm		96
64) 2,3,4,6-Tetrachlorophenol	8.252	232	4275	0.87	ppm		95
65) Diethylphthalate	8.343	149	22230	1.08	ppm		100
66) Fluorene	8.466	166	23630	1.10	ppm		95
67) 4-Chlorophenyl-phenyle...	8.461	204	10264	1.10	ppm		96
68) 4-Nitroaniline	8.482	138	5924	0.99	ppm		94
70) 4,6-Dinitro-2-methylph...	8.520	198	886	0.30	ppm		65
71) n-Nitrosodiphenylamine	8.584	169	16390	1.15	ppm		98
72) 1,2-Diphenylhydrazine	8.626	77	18781	1.00	ppm		97
74) 4-Bromophenyl-phenylether	8.979	248	5707	0.97	ppm		91
75) Hexachlorobenzene	9.054	284	6798	1.11	ppm		94
76) Pentachlorophenol	9.283	266	1974	0.72	ppm		97

SGS ACCUTEST JC24133

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E5P1496\
Data File : 5p29329.D
Acq On : 1 Jul 2016 1:30 pm
Operator : kristis
Sample : ic1496-1
Misc : op94797,e5p1496,1000,,,1,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jul 01 14:08:55 2016
Quant Method : C:\MSDCHEM\1\METHODS\M5P1496.M
Quant Title : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
QLast Update : Fri Jul 01 13:31:51 2016
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
77)	Phenanthrene	9.508	178	31830	1.11	ppm	95
78)	Anthracene	9.567	178	31710	1.07	ppm	97
79)	Carbazole	9.754	167	30486	1.05	ppm	96
80)	Di-n-butylphthalate	10.192	149	35433	1.00	ppm	97
81)	Fluoranthene	11.004	202	34076	1.12	ppm	99
82)	Octadecane	9.364	57	13413	1.10	ppm	94
84)	Pyrene	11.308	202	34493	1.07	ppm	97
86)	Butylbenzylphthalate	12.275	149	15508	0.97	ppm	99
87)	Benzo[a]anthracene	13.055	228	33040	1.10	ppm	94
88)	3,3'-Dichlorobenzidine	13.039	252	12022	1.04	ppm	89
89)	Chrysene	13.108	228	32016	1.10	ppm	99
90)	bis(2-Ethylhexyl)phtha...	13.173	149	20798	0.96	ppm	99
92)	Di-n-octylphthalate	14.129	149	37140	0.99	ppm	94
93)	Benzo[b]fluoranthene	14.604	252	33664m	1.12	ppm	
94)	Benzo[k]fluoranthene	14.642	252	32133	1.12	ppm	98
95)	Benzo[a]pyrene	15.048	252	30380	1.12	ppm	91
96)	Indeno[1,2,3-cd]pyrene	16.821	276	28344	1.09	ppm	92
97)	Dibenz(a,h)acridine	16.431	279	27874	1.14	ppm	98
98)	Dibenz[a,h]anthracene	16.864	278	31463	1.17	ppm	93
99)	7,12-Dimethylbenz(a)an...	14.604	256	16003	1.18	ppm	95
100)	Benzo[g,h,i]perylene	17.313	276	31086	1.14	ppm	93

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

7.6.34

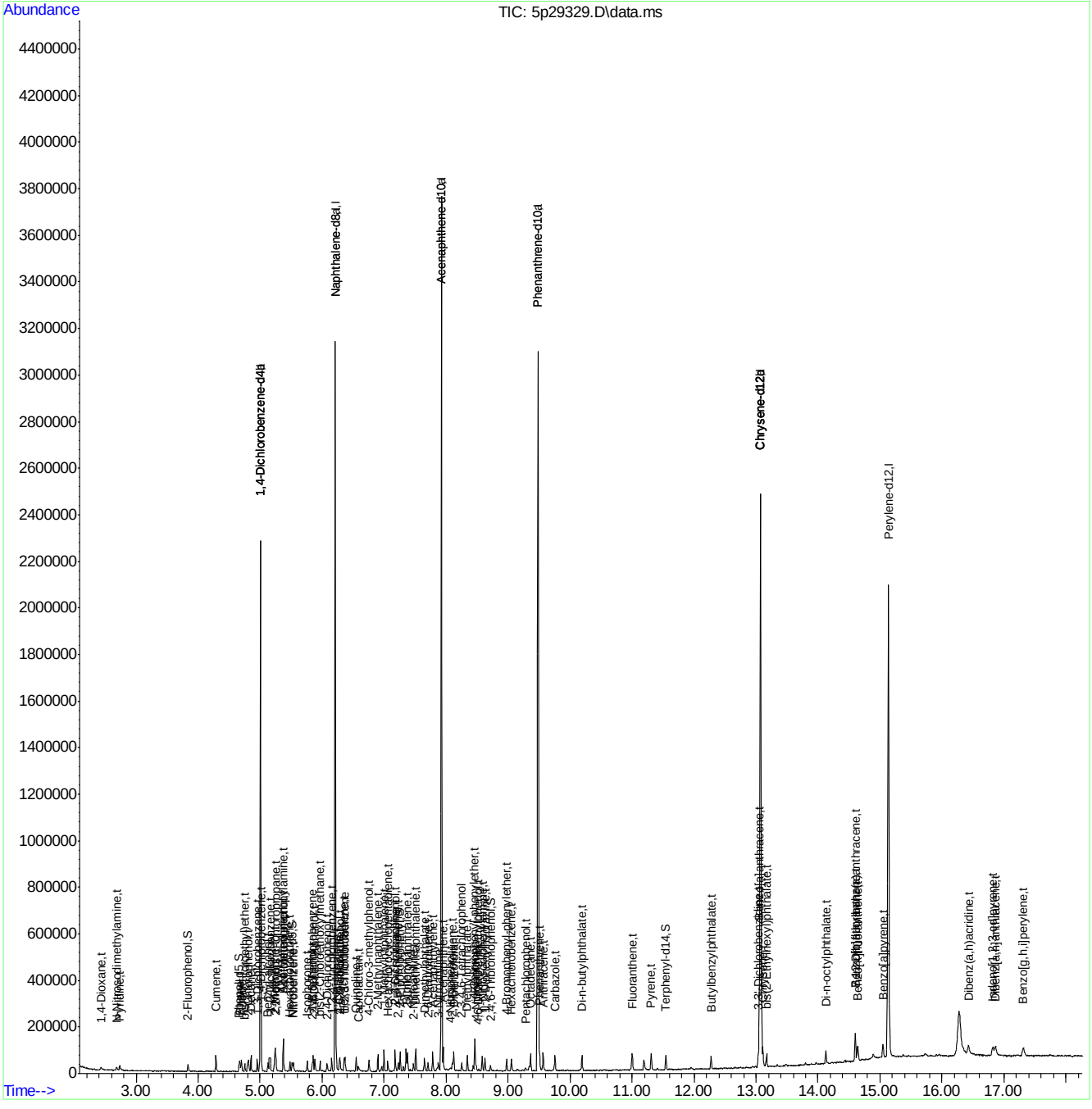
7

SGS ACCUTEST JC24133

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E5P1496\
Data File : 5p29329.D
Acq On : 1 Jul 2016 1:30 pm
Operator : kristis
Sample : ic1496-1
Misc : op94797,e5p1496,1000,,,1,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jul 01 14:08:55 2016
Quant Method : C:\MSDCHEM\1\METHODS\M5P1496.M
Quant Title : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
QLast Update : Fri Jul 01 13:31:51 2016
Response via : Initial Calibration



SGS ACCUTEST JC24133

Manual Integration Approval Summary

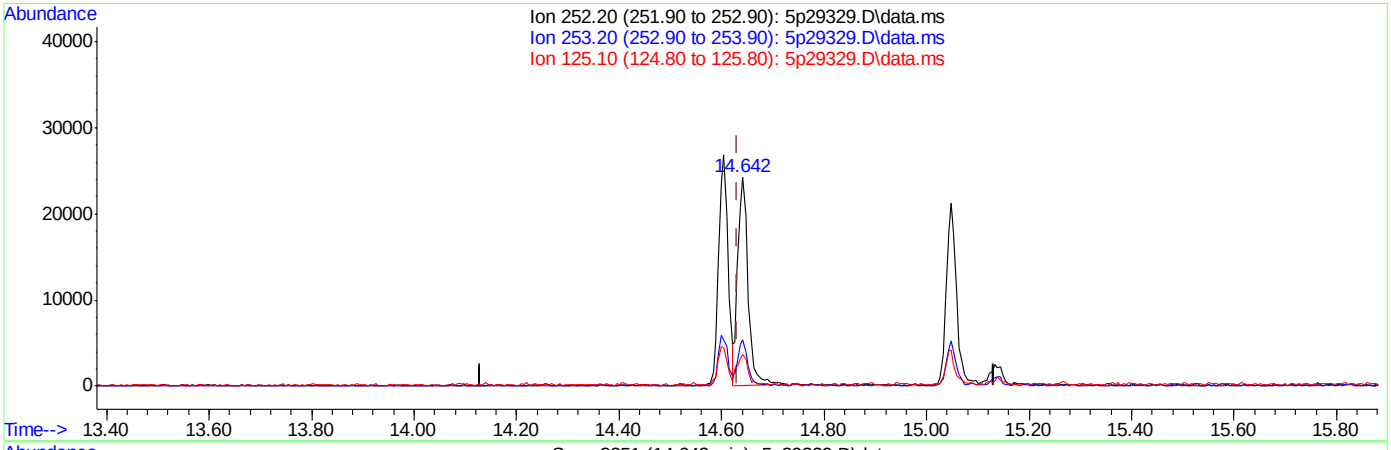
Sample Number:	E5P1496-IC1496	**Method:**	SW846 8270D
Lab FileID:	5P29329.D	**Analyst approved:**	07/03/16 16:26 Kristi Schollenberger
Injection Time:	07/01/16 13:30	**Supervisor approved:**	07/05/16 10:03 Nina Pandya

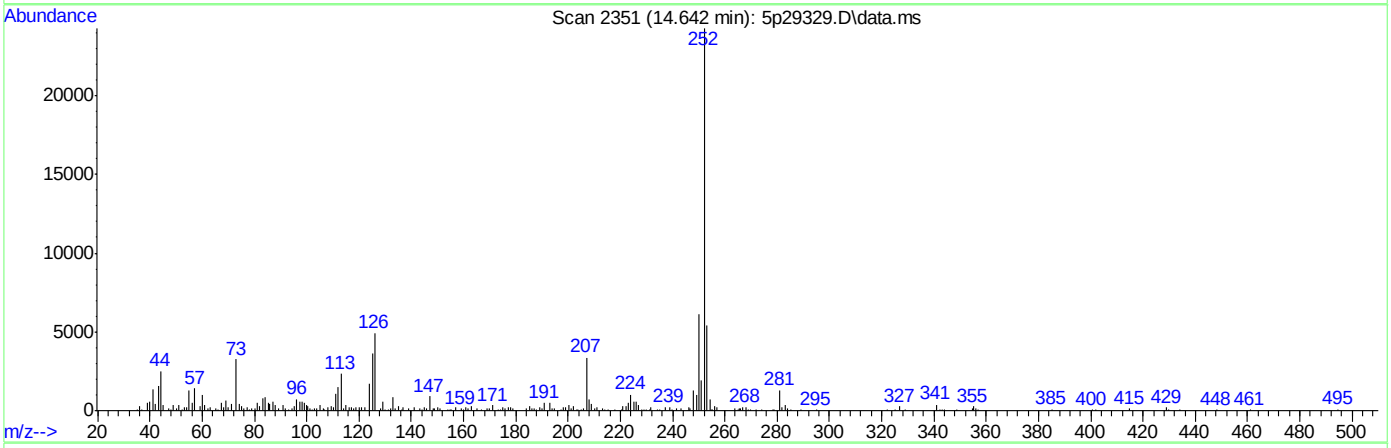
Parameter	CAS	Sig#	R.T. (min.)	Reason
Benzo(b)fluoranthene	205-99-2		14.60	Overlapping peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E5P1496\
Data File : 5p29329.D
Acq On : 1 Jul 2016 1:30 pm
Operator : kristis
Sample : ic1496-1
Misc : op94797,e5p1496,1000,,,1,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jul 01 13:48:31 2016
Quant Method : C:\MSDCHEM\1\METHODS\M5P1496.M
Quant Title : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
QLast Update : Fri Jul 01 13:31:51 2016
Response via : Initial Calibration





TIC: 5p29329.D\data.ms

(93) Benzo[b]fluoranthene (t)

14.642min (+0.011) 1.11ppm

response 33371

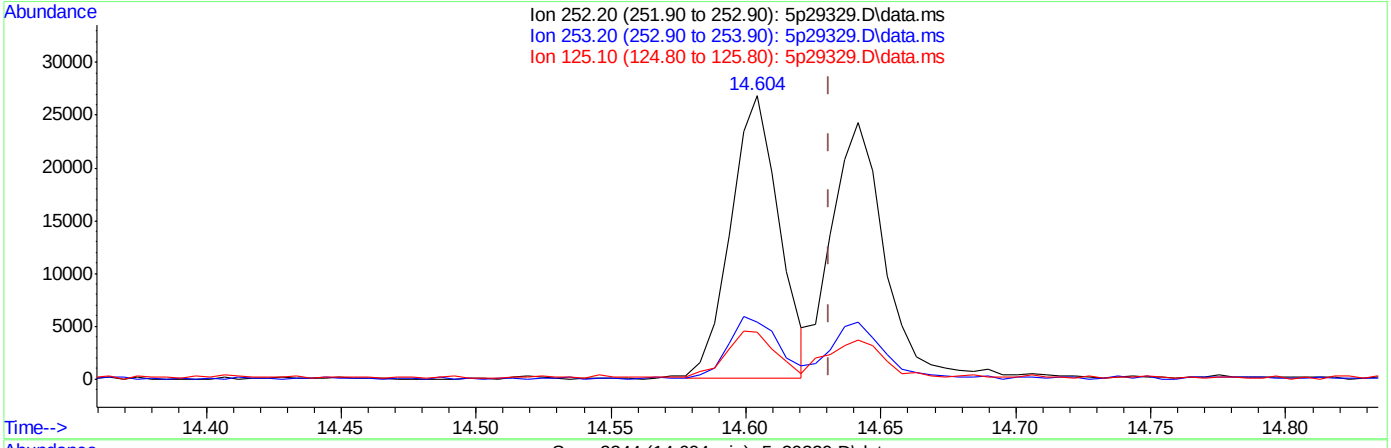
Ion	Exp%	Act%
252.20	100	100
253.20	25.80	21.85
125.10	18.00	15.35
0.00	0.00	0.00

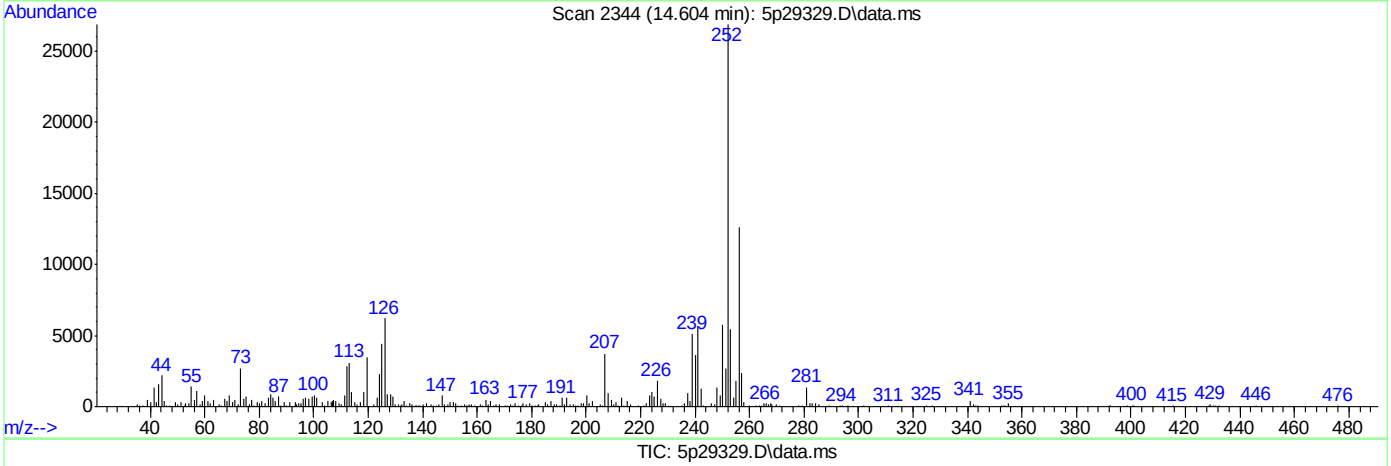
SGS ACCUTEST JC24133

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E5P1496\
Data File : 5p29329.D
Acq On : 1 Jul 2016 1:30 pm
Operator : kristis
Sample : ic1496-1
Misc : op94797,e5p1496,1000,,,1,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jul 01 13:48:31 2016
Quant Method : C:\MSDCHEM\1\METHODS\M5P1496.M
Quant Title : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
QLast Update : Fri Jul 01 13:31:51 2016
Response via : Initial Calibration





TIC: 5p29329.D\data.ms

(93) Benzo[b]fluoranthene (t)

14.604min (-0.027) 1.12ppm m

response 33664

Ion	Exp%	Act%
252.20	100	100
253.20	25.80	20.18
125.10	18.00	16.40
0.00	0.00	0.00

SGS ACCUTEST JC24133

Manual Integrations APPROVED (compounds with "m" flag)
Nina Pandya
07/05/16 10:03

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E5P1496\
Data File : 5p29330.D
Acq On : 1 Jul 2016 1:55 pm
Operator : kristis
Sample : icc1496-50
Misc : op94797,e5p1496,1000,,,1,1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jul 01 14:36:21 2016
Quant Method : C:\MSDCHEM\1\METHODS\M5P1496.M
Quant Title : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
QLast Update : Fri Jul 01 14:09:04 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	5.004	152	347484	40.00	ppm	0.00
24) Naphthalene-d8	6.212	136	1403638	40.00	ppm	0.00
47) Acenaphthene-d10	7.926	164	881887	40.00	ppm	0.00
69) Phenanthrene-d10	9.486	188	1398384	40.00	ppm	0.00
83) Chrysene-d12	13.082	240	1185318	40.00	ppm	0.01
91) Perylene-d12	15.144	264	1131920	40.00	ppm	0.00
101) 1,4-Dichlorobenzene-d4a	5.004	152	347484	40.00	ppm	0.00
103) Acenaphthene-d10a	7.926	164	881887	40.00	ppm	0.00
105) Chrysene-d12a	13.082	240	1185294	40.00	ppm	0.01
108) Phenanthrene-d10a	9.486	188	1398384	40.00	ppm	0.00
111) Naphthalene-d8a	6.212	136	1403638	40.00	ppm	0.00
113) Chrysene-d12b	13.082	240	1185294	40.00	ppm	0.01
115) 1,4-Dichlorobenzene-d4b	5.004	152	347484	40.00	ppm	0.00
117) Chrysene-d12c	13.082	240	1185325	40.00	ppm	0.01
System Monitoring Compounds						
5) 2-Fluorophenol	3.834	112	545370	52.02	ppm	0.00
Spiked Amount 50.000			Recovery	=	104.04%	
8) Phenol-d5	4.668	99	656497	51.59	ppm	0.00
Spiked Amount 50.000			Recovery	=	103.18%	
25) Nitrobenzene-d5	5.522	82	512918	50.50	ppm	0.00
Spiked Amount 50.000			Recovery	=	101.00%	
51) 2-Fluorobiphenyl	7.264	172	1080990	46.59	ppm	0.00
Spiked Amount 50.000			Recovery	=	93.18%	
73) 2,4,6-Tribromophenol	8.722	330	156363	51.71	ppm	0.00
Spiked Amount 50.000			Recovery	=	103.42%	
85) Terphenyl-d14	11.548	244	1099570	48.81	ppm	0.00
Spiked Amount 50.000			Recovery	=	97.62%	
107) 1-chlorooctadecane	0.000	57	0d	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
109) o-terphenyl	0.000	230	0d	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
Target Compounds						Qvalue
2) 1,4-Dioxane	2.424	88	200254	40.02	ppm	99
3) Pyridine	2.707	79	577284	50.01	ppm	98
4) N-Nitrosodimethylamine	2.675	74	326125	49.99	ppm	89
6) Indene	5.245	116	929507	46.28	ppm	99
7) Cumene	4.288	105	1329617	47.71	ppm	98
9) Phenol	4.678	94	776325	50.79	ppm	95
10) Aniline	4.700	93	800553	48.32	ppm	99
11) bis(2-Chloroethyl)ether	4.758	93	493984	48.95	ppm	95
12) 2-Chlorophenol	4.817	128	604290	48.37	ppm	97
13) Decane	4.855	43	495246	45.69	ppm	98
14) 1,3-Dichlorobenzene	4.956	146	650445	47.68	ppm	100
15) 1,4-Dichlorobenzene	5.020	146	640950	48.18	ppm	100
16) Benzyl alcohol	5.132	108	367441	51.62	ppm	95
17) 1,2-Dichlorobenzene	5.164	146	597801	47.55	ppm	98
18) Acetophenone	5.378	105	708843	45.96	ppm	98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E5P1496\
Data File : 5p29330.D
Acq On : 1 Jul 2016 1:55 pm
Operator : kristis
Sample : icc1496-50
Misc : op94797,e5p1496,1000,,,1,1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jul 01 14:36:21 2016
Quant Method : C:\MSDCHEM\1\METHODS\M5P1496.M
Quant Title : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
QLast Update : Fri Jul 01 14:09:04 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
19) 2-Methylphenol	5.239	108	490114	48.27	ppm	100
20) 2,2'-oxybis(1-Chloropr...	5.255	45	618716	45.79	ppm	95
21) 3&4-Methylphenol	5.378	108	507393	46.51	ppm	98
22) n-Nitroso-di-n-propyla...	5.384	70	317182	45.18	ppm	98
23) Hexachloroethane	5.485	201	195509	48.97	ppm	95
26) Nitrobenzene	5.544	77	517142	49.18	ppm	98
27) Quinoline	6.559	129	1170164	50.36	ppm	100
28) Isophorone	5.768	82	952917	52.06	ppm	98
29) 2-Nitrophenol	5.848	139	344634	52.88	ppm	92
30) 2,4-Dimethylphenol	5.886	107	541541	47.79	ppm	98
31) Benzoic acid	6.014	105	361766m	47.21	ppm	
32) bis(2-Chloroethoxy)met...	5.971	93	588016	49.00	ppm	100
33) 2,4-Dichlorophenol	6.078	162	493352	51.21	ppm	99
34) 2,6-Dichlorophenol	6.297	162	467014	48.18	ppm	99
35) 1,3,5-Trichlorobenzene	5.859	180	500179	47.13	ppm	100
36) 1,2,4-Trichlorobenzene	6.158	180	488071	49.13	ppm	99
37) 1,2,3-Trichlorobenzene	6.377	180	472914	49.00	ppm	98
38) Naphthalene	6.233	128	1607667	48.78	ppm	100
39) 4-Chloroaniline	6.286	127	685322	50.57	ppm	99
40) 2,3-Dichloroaniline	7.178	161	556349	48.93	ppm	99
41) Caprolactam	6.644	55	228957	49.56	ppm	95
42) Hexachlorobutadiene	6.361	225	250022	49.14	ppm	99
43) 4-Chloro-3-methylphenol	6.762	107	486038	51.28	ppm	99
44) 2-Methylnaphthalene	6.906	141	924864	51.22	ppm	98
45) 1-Methylnaphthalene	7.002	141	970071	48.60	ppm	100
46) Dimethylnaphthalene	7.515	156	882981	44.99	ppm	100
48) Hexachlorocyclopentadiene	7.066	237	529680	119.39	ppm	98
49) 2,4,6-Trichlorophenol	7.184	196	307168	48.11	ppm	99
50) 2,4,5-Trichlorophenol	7.227	196	329867	49.94	ppm	98
52) 2-Chloronaphthalene	7.382	162	967119	46.26	ppm	100
53) Biphenyl	7.360	154	1332975	47.58	ppm	99
54) 2-Nitroaniline	7.483	65	239237	43.82	ppm	91
55) Dimethylphthalate	7.659	163	981770	45.86	ppm	99
56) Acenaphthylene	7.788	152	1675987	51.70	ppm	100
57) 2,6-Dinitrotoluene	7.718	165	246890	52.62	ppm	96
58) 3-Nitroaniline	7.884	138	324703	53.77	ppm	94
59) Acenaphthene	7.958	153	985681	47.44	ppm	100
60) 2,4-Dinitrophenol	7.985	184	274112	132.98	ppm	96
61) 4-Nitrophenol	8.055	109	138127	55.03	ppm	89
62) Dibenzofuran	8.129	168	1380144	48.53	ppm	99
63) 2,4-Dinitrotoluene	8.113	165	356826	54.12	ppm	93
64) 2,3,4,6-Tetrachlorophenol	8.252	232	281813	57.01	ppm	99
65) Diethylphthalate	8.354	149	1096009	50.11	ppm	99
66) Fluorene	8.471	166	1071256	46.68	ppm	98
67) 4-Chlorophenyl-phenyle...	8.466	204	463699	46.72	ppm	97
68) 4-Nitroaniline	8.498	138	318846	51.51	ppm	92
70) 4,6-Dinitro-2-methylph...	8.525	198	201119	78.03	ppm	99
71) n-Nitrosodiphenylamine	8.589	169	759223	48.36	ppm	99
72) 1,2-Diphenylhydrazine	8.632	77	982329	49.23	ppm	99
74) 4-Bromophenyl-phenylether	8.984	248	309048	49.88	ppm	93

SGS ACCUTEST JC24133

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E5P1496\
Data File : 5p29330.D
Acq On : 1 Jul 2016 1:55 pm
Operator : kristis
Sample : icc1496-50
Misc : op94797,e5p1496,1000,,,1,1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jul 01 14:36:21 2016
Quant Method : C:\MSDCHEM\1\METHODS\M5P1496.M
Quant Title : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
QLast Update : Fri Jul 01 14:09:04 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
75) Hexachlorobenzene	9.064	284	329633	49.35 ppm	94
76) Pentachlorophenol	9.278	266	365843	149.57 ppm	99
77) Phenanthrene	9.513	178	1513039	48.41 ppm	99
78) Anthracene	9.572	178	1565389	49.09 ppm	99
79) Carbazole	9.764	167	1551025	49.78 ppm	99
80) Di-n-butylphthalate	10.197	149	1907864	50.91 ppm	99
81) Fluoranthene	11.009	202	1638711	49.36 ppm	97
82) Octadecane	9.363	57	652096	49.16 ppm	99
84) Pyrene	11.319	202	1691601	48.67 ppm	99
86) Butylbenzylphthalate	12.280	149	846766	50.24 ppm	98
87) Benzo[a]anthracene	13.066	228	1517259	46.49 ppm	99
88) 3,3'-Dichlorobenzidine	13.050	252	605163	48.97 ppm	98
89) Chrysene	13.124	228	1507851	47.65 ppm	100
90) bis(2-Ethylhexyl)phtha...	13.178	149	1140825	50.05 ppm	97
92) Di-n-octylphthalate	14.134	149	2041742	49.44 ppm	98
93) Benzo[b]fluoranthene	14.620	252	1581700	46.23 ppm	98
94) Benzo[k]fluoranthene	14.663	252	1493852	45.83 ppm	99
95) Benzo[a]pyrene	15.064	252	1472227	47.76 ppm	99
96) Indeno[1,2,3-cd]pyrene	16.853	276	1480779	50.45 ppm	91
97) Dibenz(a,h)acridine	16.447	279	1344319	48.07 ppm	100
98) Dibenz[a,h]anthracene	16.891	278	1478614	47.69 ppm	97
99) 7,12-Dimethylbenz(a)an...	14.620	256	725912	46.19 ppm	98
100) Benzo[g,h,i]perylene	17.350	276	1481921	47.49 ppm	98

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

7.6.35

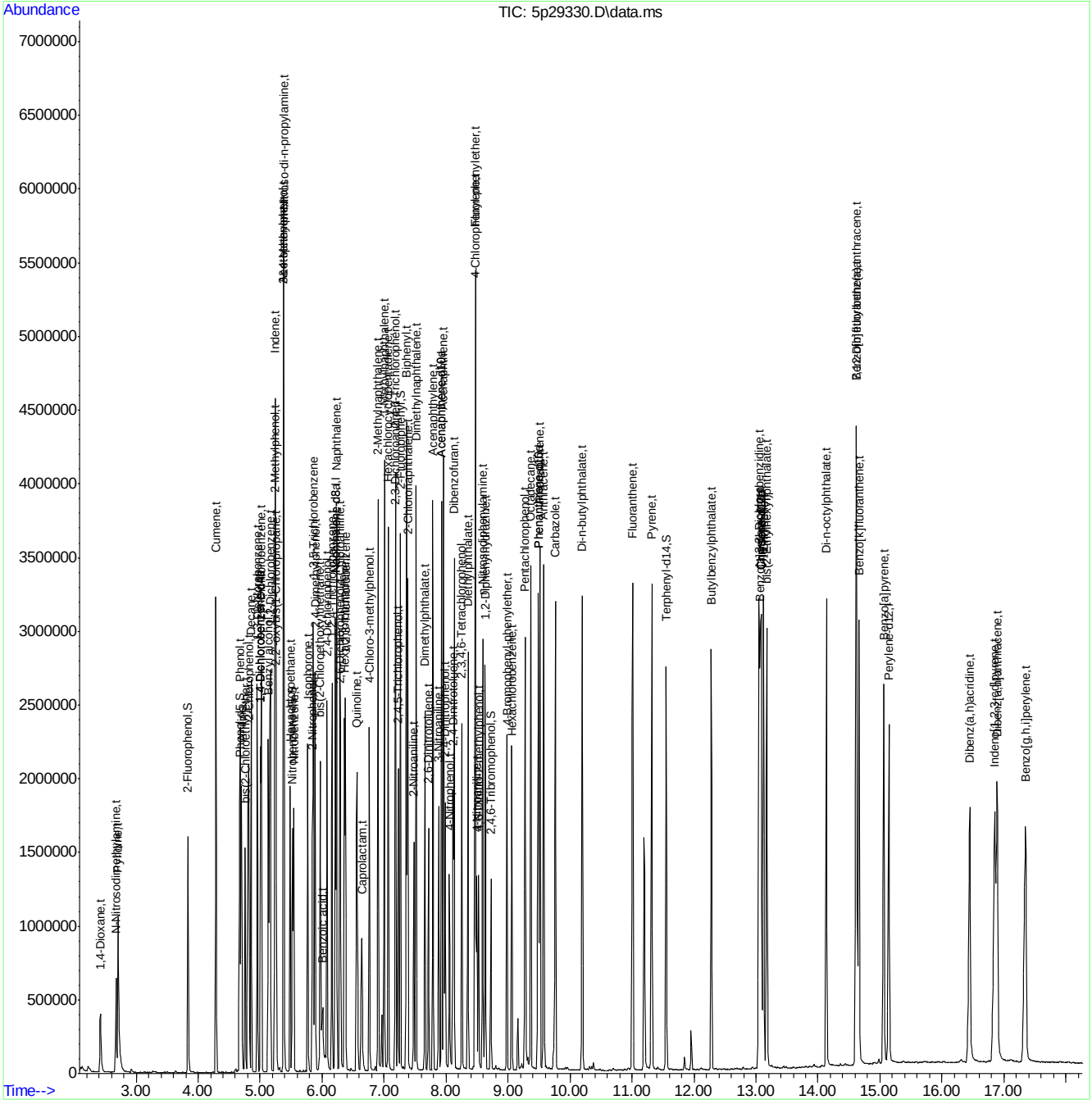
7

SGS ACCUTEST JC24133

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E5P1496\
Data File : 5p29330.D
Acq On : 1 Jul 2016 1:55 pm
Operator : kristis
Sample : icc1496-50
Misc : op94797,e5p1496,1000,,,1,1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jul 01 14:36:21 2016
Quant Method : C:\MSDCHEM\1\METHODS\M5P1496.M
Quant Title : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
QLast Update : Fri Jul 01 14:09:04 2016
Response via : Initial Calibration



SGS ACCUTEST JC24133

Manual Integration Approval Summary

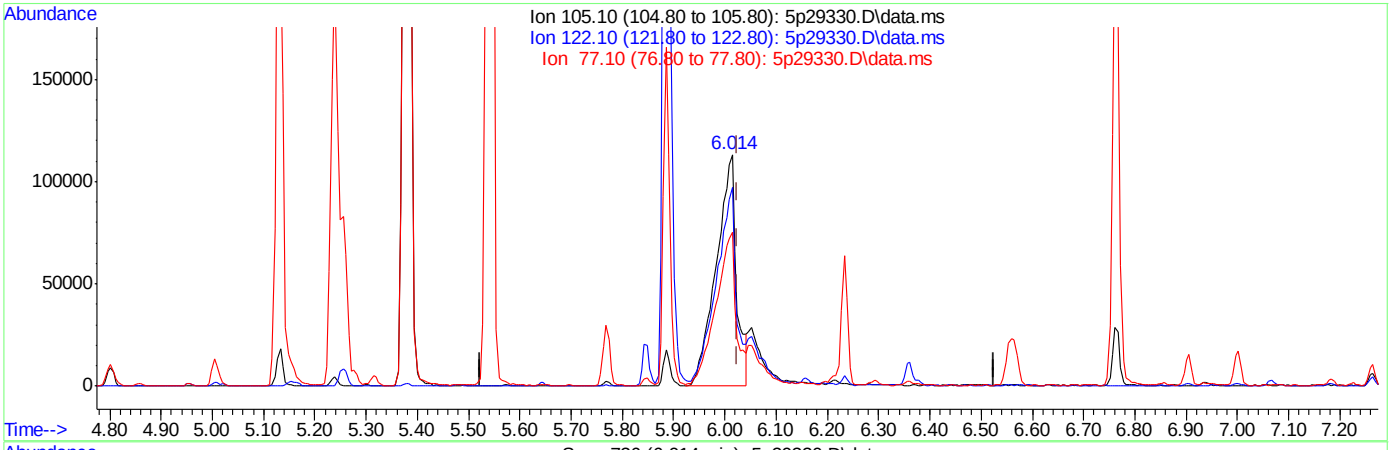
Sample Number:	E5P1496-ICC1496	**Method:**	SW846 8270D
Lab FileID:	5P29330.D	**Analyst approved:**	07/03/16 16:26 Kristi Schollenberger
Injection Time:	07/01/16 13:55	**Supervisor approved:**	07/05/16 10:03 Nina Pandya

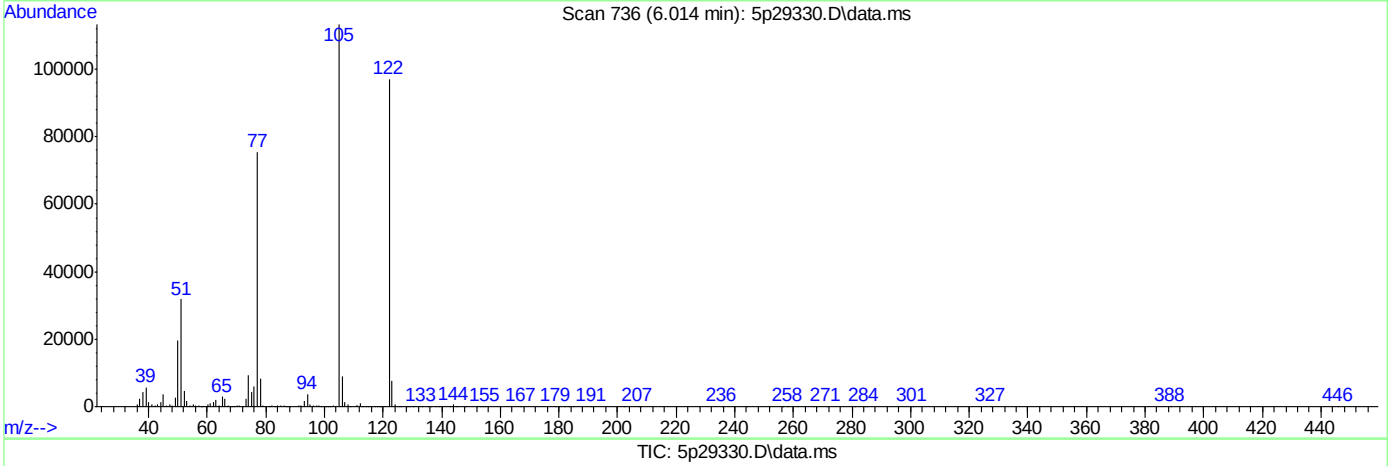
Parameter	CAS	Sig#	R.T. (min.)	Reason
Benzoic acid	65-85-0		6.01	Split peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E5P1496\
Data File : 5p29330.D
Acq On : 1 Jul 2016 1:55 pm
Operator : kristis
Sample : icc1496-50
Misc : op94797,e5p1496,1000,,,1,1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jul 01 14:14:02 2016
Quant Method : C:\MSDCHEM\1\METHODS\M5P1496.M
Quant Title : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
QLast Update : Fri Jul 01 14:09:04 2016
Response via : Initial Calibration





TIC: 5p29330.D\data.ms

(31) Benzoic acid (t)

6.014min (-0.011) 40.28ppm

response 308694

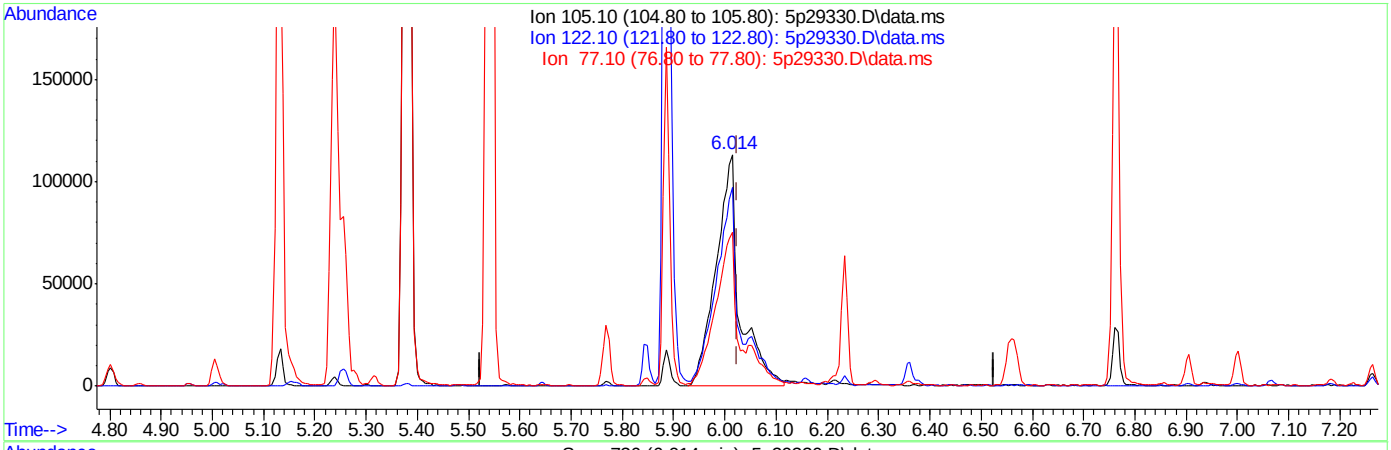
Ion	Exp%	Act%
105.10	100	100
122.10	81.50	84.96
77.10	68.30	66.77
0.00	0.00	0.00

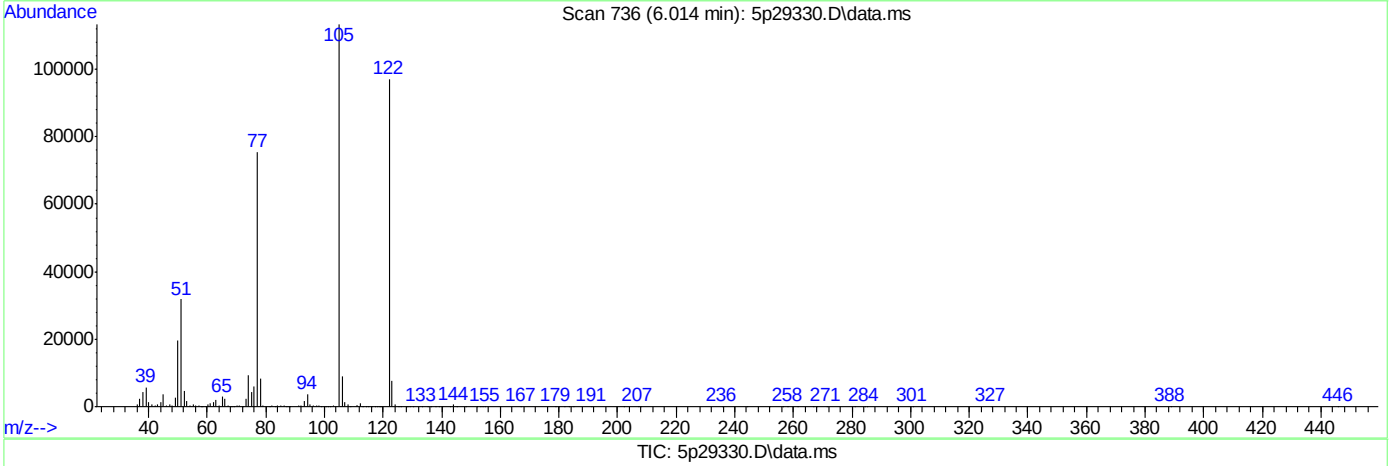
SGS ACCUTEST JC24133

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E5P1496\
Data File : 5p29330.D
Acq On : 1 Jul 2016 1:55 pm
Operator : kristis
Sample : icc1496-50
Misc : op94797,e5p1496,1000,,,1,1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jul 01 14:14:02 2016
Quant Method : C:\MSDCHEM\1\METHODS\M5P1496.M
Quant Title : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
QLast Update : Fri Jul 01 14:09:04 2016
Response via : Initial Calibration





TIC: 5p29330.D\data.ms

(31) Benzoic acid (t)

6.014min (-0.011) 47.21ppm m

response 361766

Ion	Exp%	Act%
105.10	100	100
122.10	81.50	85.68
77.10	68.30	66.61
0.00	0.00	0.00

SGS ACCUTEST JC24133

Manual Integrations APPROVED (compounds with "m" flag)
Nina Pandya
07/05/16 10:03

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E5P1496\
Data File : 5p29331a.D
Acq On : 1 Jul 2016 2:46 pm
Operator : kristis
Sample : ic1496-5
Misc : op94797,e5p1496,1000,,,1,1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jul 01 15:11:10 2016
Quant Method : C:\MSDCHEM\1\METHODS\M5P1496.M
Quant Title : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
QLast Update : Fri Jul 01 14:36:29 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	5.004	152	355857	40.00	ppm	0.00
24) Naphthalene-d8	6.212	136	1420289	40.00	ppm	0.00
47) Acenaphthene-d10	7.926	164	871864	40.00	ppm	0.00
69) Phenanthrene-d10	9.486	188	1383424	40.00	ppm	0.00
83) Chrysene-d12	13.076	240	1151472	40.00	ppm	0.00
91) Perylene-d12	15.138	264	1070222	40.00	ppm	0.00
101) 1,4-Dichlorobenzene-d4a	5.004	152	355857	40.00	ppm	0.00
103) Acenaphthene-d10a	7.926	164	871864	40.00	ppm	0.00
105) Chrysene-d12a	13.076	240	1151472	40.00	ppm	0.00
108) Phenanthrene-d10a	9.486	188	1383424	40.00	ppm	0.00
111) Naphthalene-d8a	6.212	136	1420289	40.00	ppm	0.00
113) Chrysene-d12b	13.076	240	1151472	40.00	ppm	0.00
115) 1,4-Dichlorobenzene-d4b	5.004	152	355857	40.00	ppm	0.00
117) Chrysene-d12c	13.076	240	1151472	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	3.834	112	53360	4.93	ppm	0.00
Spiked Amount 50.000			Recovery	=	9.86%	
8) Phenol-d5	4.662	99	65377	4.98	ppm	0.00
Spiked Amount 50.000			Recovery	=	9.96%	
25) Nitrobenzene-d5	5.517	82	51771	5.03	ppm	0.00
Spiked Amount 50.000			Recovery	=	10.06%	
51) 2-Fluorobiphenyl	7.259	172	116968	5.17	ppm	0.00
Spiked Amount 50.000			Recovery	=	10.34%	
73) 2,4,6-Tribromophenol	8.717	330	12319	4.09	ppm	0.00
Spiked Amount 50.000			Recovery	=	8.18%	
85) Terphenyl-d14	11.548	244	113237	5.20	ppm	0.00
Spiked Amount 50.000			Recovery	=	10.40%	
107) 1-chlorooctadecane	0.000	57	0d	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
109) o-terphenyl	0.000	230	0d	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
Target Compounds						Qvalue
2) 1,4-Dioxane	2.429	88	24584	5.00	ppm	91
3) Pyridine	2.718	79	56172	4.75	ppm	99
4) N-Nitrosodimethylamine	2.680	74	31246	4.68	ppm	99
6) Indene	5.245	116	104063	5.14	ppm	98
7) Cumene	4.288	105	143555	5.08	ppm	98
9) Phenol	4.673	94	79812	5.08	ppm	99
10) Aniline	4.700	93	89003	5.28	ppm	82
11) bis(2-Chloroethyl)ether	4.753	93	51251	4.98	ppm	96
12) 2-Chlorophenol	4.812	128	63499	5.00	ppm	98
13) Decane	4.855	43	56358	5.17	ppm	98
14) 1,3-Dichlorobenzene	4.956	146	70631	5.10	ppm	99
15) 1,4-Dichlorobenzene	5.020	146	69577	5.14	ppm	98
16) Benzyl alcohol	5.127	108	36915	5.03	ppm	97
17) 1,2-Dichlorobenzene	5.165	146	66598	5.22	ppm	98
18) Acetophenone	5.373	105	79039	5.09	ppm	97

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E5P1496\
Data File : 5p29331a.D
Acq On : 1 Jul 2016 2:46 pm
Operator : kristis
Sample : ic1496-5
Misc : op94797,e5p1496,1000,,,1,1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jul 01 15:11:10 2016
Quant Method : C:\MSDCHEM\1\METHODS\M5P1496.M
Quant Title : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
QLast Update : Fri Jul 01 14:36:29 2016
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
19)	2-Methylphenol	5.234	108	52556	5.09	ppm		97
20)	2,2'-oxybis(1-Chloropr...	5.255	45	69938	5.14	ppm		97
21)	3&4-Methylphenol	5.373	108	55476	5.04	ppm		99
22)	n-Nitroso-di-n-propyla...	5.373	70	34278	4.86	ppm		96
23)	Hexachloroethane	5.485	201	21112	5.18	ppm		96
26)	Nitrobenzene	5.538	77	53954	5.09	ppm		99
27)	Quinoline	6.548	129	117459	4.99	ppm		100
28)	Isophorone	5.763	82	97731	5.23	ppm		98
29)	2-Nitrophenol	5.843	139	32394	4.86	ppm		97
30)	2,4-Dimethylphenol	5.880	107	56778	5.00	ppm		96
31)	Benzoic acid	5.955	105	13336	1.75	ppm		83
32)	bis(2-Chloroethoxy)met...	5.966	93	62219	5.14	ppm		96
33)	2,4-Dichlorophenol	6.078	162	49936	5.10	ppm		98
34)	2,6-Dichlorophenol	6.292	162	49353	5.07	ppm		99
35)	1,3,5-Trichlorobenzene	5.854	180	54815	5.16	ppm		98
36)	1,2,4-Trichlorobenzene	6.158	180	51489	5.14	ppm		96
37)	1,2,3-Trichlorobenzene	6.372	180	51173	5.26	ppm		98
38)	Naphthalene	6.233	128	171977	5.18	ppm		99
39)	4-Chloroaniline	6.281	127	70616	5.14	ppm		99
40)	2,3-Dichloroaniline	7.179	161	60300	5.26	ppm		99
41)	Caprolactam	6.591	55	22219	4.76	ppm		95
42)	Hexachlorobutadiene	6.356	225	25968	5.06	ppm		99
43)	4-Chloro-3-methylphenol	6.757	107	49264	5.11	ppm		97
44)	2-Methylnaphthalene	6.901	141	98728	5.38	ppm		99
45)	1-Methylnaphthalene	6.997	141	103077	5.13	ppm		100
46)	Dimethylnaphthalene	7.515	156	103623	5.32	ppm		99
48)	Hexachlorocyclopentadiene	7.066	237	42896	9.41	ppm		94
49)	2,4,6-Trichlorophenol	7.179	196	32509	5.19	ppm		98
50)	2,4,5-Trichlorophenol	7.221	196	32695	5.01	ppm		99
52)	2-Chloronaphthalene	7.376	162	105755	5.19	ppm		98
53)	Biphenyl	7.355	154	142867	5.21	ppm		100
54)	2-Nitroaniline	7.472	65	26158	4.97	ppm		91
55)	Dimethylphthalate	7.654	163	115889	5.57	ppm		99
56)	Acenaphthylene	7.782	152	175006	5.42	ppm		99
57)	2,6-Dinitrotoluene	7.707	165	24332	5.19	ppm		94
58)	3-Nitroaniline	7.878	138	29700	4.90	ppm		91
59)	Acenaphthene	7.958	153	106129	5.22	ppm		96
60)	2,4-Dinitrophenol	7.980	184	7914	3.59	ppm	#	54
61)	4-Nitrophenol	8.055	109	11654	4.60	ppm		89
62)	Dibenzofuran	8.124	168	149267	5.34	ppm		98
63)	2,4-Dinitrotoluene	8.103	165	34025	5.14	ppm		98
64)	2,3,4,6-Tetrachlorophenol	8.252	232	22177	4.41	ppm		96
65)	Diethylphthalate	8.348	149	102602	4.74	ppm		95
66)	Fluorene	8.466	166	107215	4.79	ppm		99
67)	4-Chlorophenyl-phenyle...	8.466	204	45489	4.70	ppm		97
68)	4-Nitroaniline	8.482	138	27311	4.44	ppm		99
70)	4,6-Dinitro-2-methylph...	8.514	198	8444	2.98	ppm		87
71)	n-Nitrosodiphenylamine	8.584	169	69922	4.53	ppm		99
72)	1,2-Diphenylhydrazine	8.626	77	91641	4.66	ppm		98
74)	4-Bromophenyl-phenylether	8.979	248	30633	5.00	ppm		93

SGS ACCUTEST JC24133

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E5P1496\
Data File : 5p29331a.D
Acq On : 1 Jul 2016 2:46 pm
Operator : kristis
Sample : ic1496-5
Misc : op94797,e5p1496,1000,,,1,1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jul 01 15:11:10 2016
Quant Method : C:\MSDCHEM\1\METHODS\M5P1496.M
Quant Title : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
QLast Update : Fri Jul 01 14:36:29 2016
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
75)	Hexachlorobenzene	9.054	284	32604	4.95	ppm	84
76)	Pentachlorophenol	9.273	266	18207	6.85	ppm	96
77)	Phenanthrene	9.508	178	161764	5.26	ppm	98
78)	Anthracene	9.567	178	170187	5.41	ppm	99
79)	Carbazole	9.759	167	159396	5.18	ppm	99
80)	Di-n-butylphthalate	10.197	149	194199	5.22	ppm	98
81)	Fluoranthene	11.004	202	170083	5.19	ppm	99
82)	Octadecane	9.364	57	69287	5.30	ppm	99
84)	Pyrene	11.313	202	175649	5.23	ppm	98
86)	Butylbenzylphthalate	12.275	149	82515	5.03	ppm	96
87)	Benzo[a]anthracene	13.060	228	161354	5.16	ppm	99
88)	3,3'-Dichlorobenzidine	13.039	252	58251	4.87	ppm	96
89)	Chrysene	13.108	228	154813	5.08	ppm	100
90)	bis(2-Ethylhexyl)phtha...	13.173	149	111644	5.04	ppm	99
92)	Di-n-octylphthalate	14.129	149	193865	4.98	ppm	99
93)	Benzo[b]fluoranthene	14.604	252	162359	5.10	ppm	97
94)	Benzo[k]fluoranthene	14.642	252	155179	5.12	ppm	98
95)	Benzo[a]pyrene	15.053	252	142575	4.94	ppm	100
96)	Indeno[1,2,3-cd]pyrene	16.827	276	132797m	4.78	ppm	
97)	Dibenz(a,h)acridine	16.431	279	123415	4.70	ppm	97
98)	Dibenz[a,h]anthracene	16.869	278	138855	4.78	ppm	95
99)	7,12-Dimethylbenz(a)an...	14.604	256	74738	5.11	ppm	97
100)	Benzo[g,h,i]perylene	17.318	276	141014	4.83	ppm	99

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

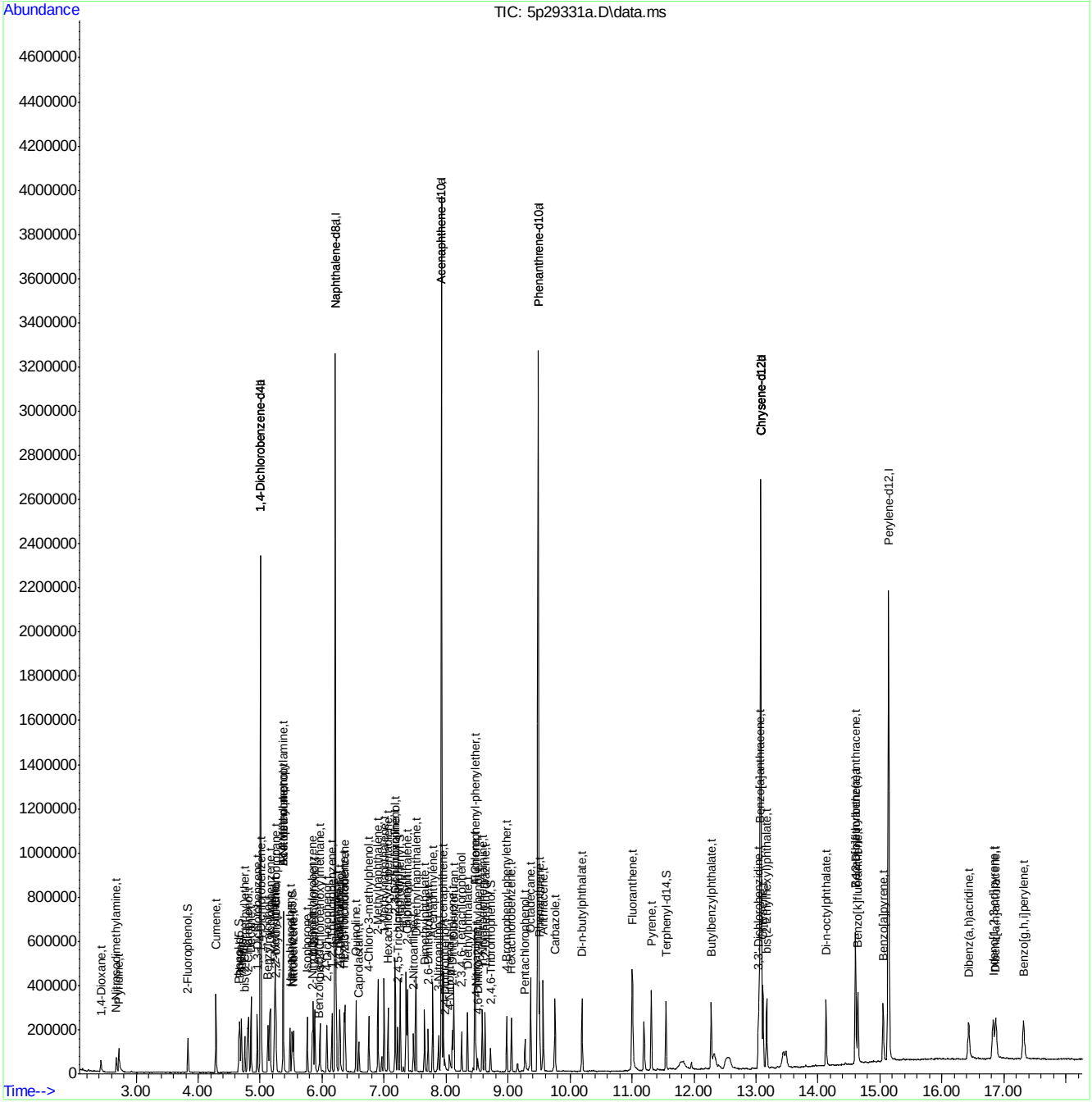
7.6.36

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E5P1496\
Data File : 5p29331a.D
Acq On : 1 Jul 2016 2:46 pm
Operator : kristis
Sample : ic1496-5
Misc : op94797,e5p1496,1000,,,1,1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jul 01 15:11:10 2016
Quant Method : C:\MSDCHEM\1\METHODS\M5P1496.M
Quant Title : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
QLast Update : Fri Jul 01 14:36:29 2016
Response via : Initial Calibration



SGS ACCUTEST JC24133

Manual Integration Approval Summary

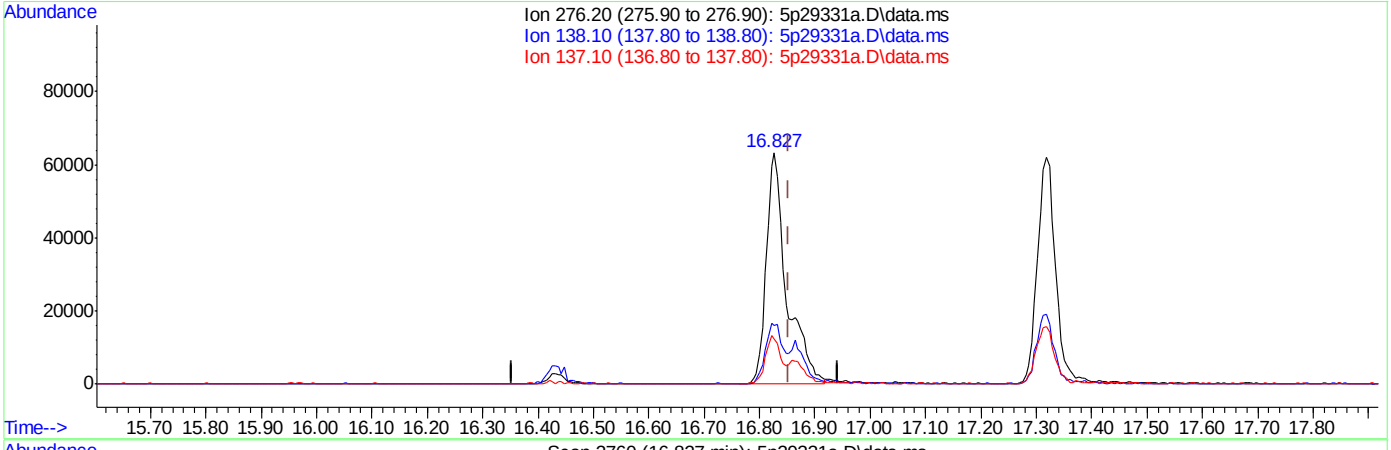
Sample Number:	E5P1496-IC1496	**Method:**	SW846 8270D
Lab FileID:	5P29331A.D	**Analyst approved:**	07/03/16 16:26 Kristi Schollenberger
Injection Time:	07/01/16 14:46	**Supervisor approved:**	07/05/16 10:03 Nina Pandya

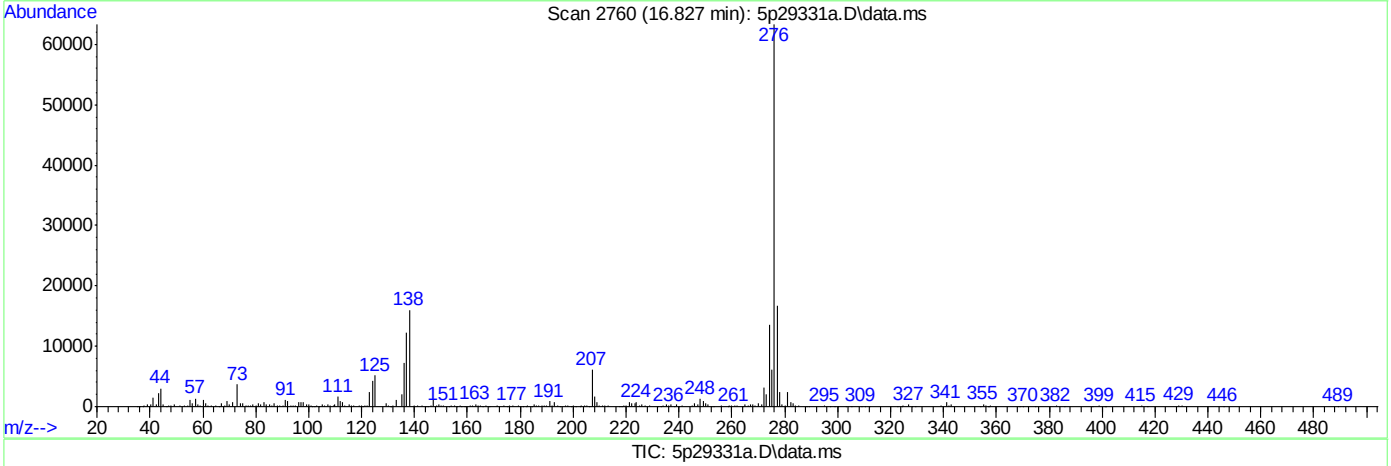
Parameter	CAS	Sig#	R.T. (min.)	Reason
Indeno(1,2,3-cd)pyrene	193-39-5		16.83	Overlapping peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E5P1496\
Data File : 5p29331a.D
Acq On : 1 Jul 2016 2:46 pm
Operator : kristis
Sample : ic1496-5
Misc : op94797,e5p1496,1000,,,1,1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jul 01 15:09:36 2016
Quant Method : C:\MSDCHEM\1\METHODS\M5P1496.M
Quant Title : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
QLast Update : Fri Jul 01 14:36:29 2016
Response via : Initial Calibration





TIC: 5p29331a.D\data.ms

(96) Indeno[1,2,3-cd]pyrene (t)

16.827min (-0.027) 5.83ppm

response 161977

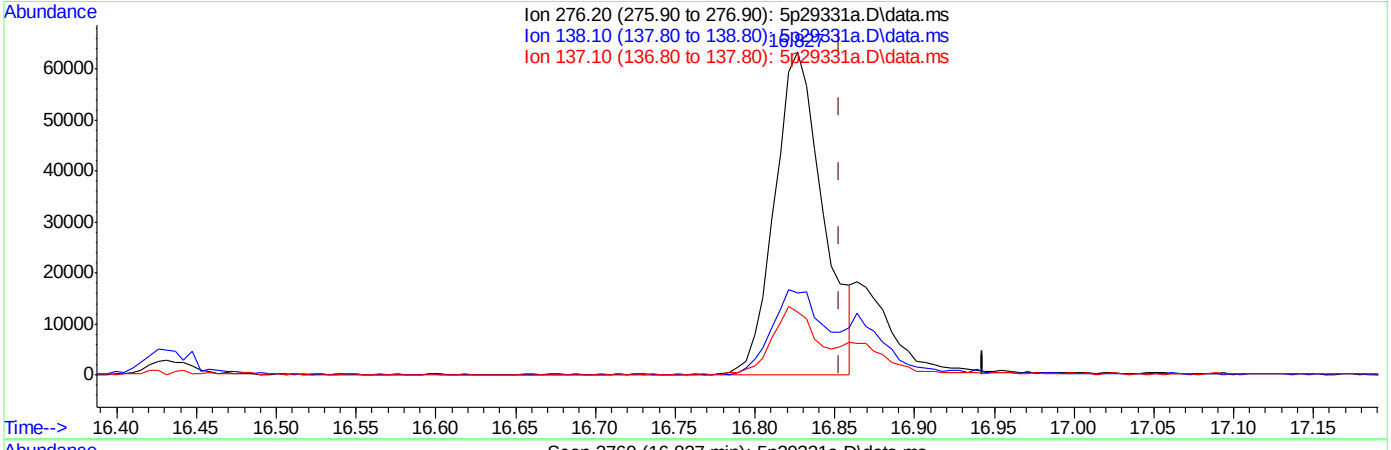
Ion	Exp%	Act%
276.20	100	100
138.10	21.30	24.92
137.10	16.30	19.02
0.00	0.00	0.00

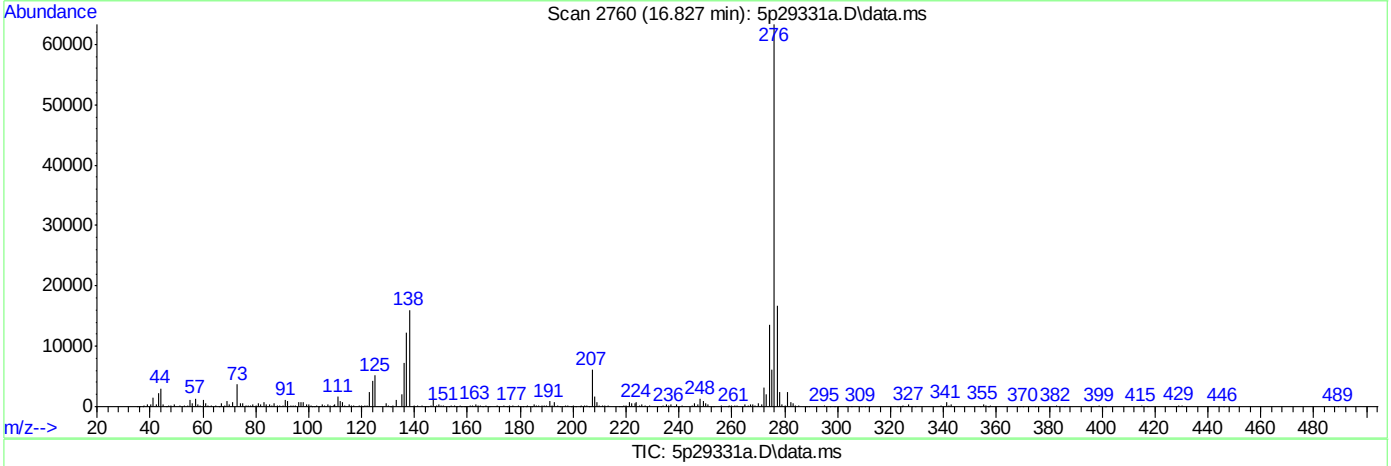
SGS ACCUTEST JC24133

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E5P1496\
Data File : 5p29331a.D
Acq On : 1 Jul 2016 2:46 pm
Operator : kristis
Sample : ic1496-5
Misc : op94797,e5p1496,1000,,,1,1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jul 01 15:09:36 2016
Quant Method : C:\MSDCHEM\1\METHODS\M5P1496.M
Quant Title : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
QLast Update : Fri Jul 01 14:36:29 2016
Response via : Initial Calibration





TIC: 5p29331a.D\data.ms

(96) Indeno[1,2,3-cd]pyrene (t)

16.827min (-0.027) 4.78ppm m

response 132797

Ion	Exp%	Act%
276.20	100	100
138.10	21.30	25.35
137.10	16.30	19.35
0.00	0.00	0.00

SGS ACCUTEST JC24133

5P29332.D

Manual Integrations APPROVED (compounds with "m" flag)

Nina Pandya
07/05/16 10:03

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E5P1496\
Data File : 5p29332.D
Acq On : 1 Jul 2016 3:12 pm
Operator : kristis
Sample : ic1496-25
Misc : op94797,e5p1496,1000,,,1,1
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jul 01 15:38:03 2016
Quant Method : C:\MSDCHEM\1\METHODS\M5P1496.M
Quant Title : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
QLast Update : Fri Jul 01 15:11:21 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	5.004	152	341789	40.00	ppm	0.00
24) Naphthalene-d8	6.212	136	1369504	40.00	ppm	0.00
47) Acenaphthene-d10	7.927	164	742473	40.00	ppm	0.00
69) Phenanthrene-d10	9.486	188	1359217	40.00	ppm	0.00
83) Chrysene-d12	13.076	240	1142004	40.00	ppm	0.00
91) Perylene-d12	15.144	264	1082445	40.00	ppm	0.00
101) 1,4-Dichlorobenzene-d4a	5.004	152	341789	40.00	ppm	0.00
103) Acenaphthene-d10a	7.927	164	742473	40.00	ppm	0.00
105) Chrysene-d12a	13.076	240	1141979	40.00	ppm	0.00
108) Phenanthrene-d10a	9.486	188	1359217	40.00	ppm	0.00
111) Naphthalene-d8a	6.212	136	1369504	40.00	ppm	0.00
113) Chrysene-d12b	13.076	240	1141979	40.00	ppm	0.00
115) 1,4-Dichlorobenzene-d4b	5.004	152	341789	40.00	ppm	0.00
117) Chrysene-d12c	13.076	240	1141979	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	3.834	112	267896	25.83	ppm	0.00
Spiked Amount 50.000			Recovery	=	51.66%	
8) Phenol-d5	4.662	99	321650	25.55	ppm	0.00
Spiked Amount 50.000			Recovery	=	51.10%	
25) Nitrobenzene-d5	5.523	82	255502	25.71	ppm	0.00
Spiked Amount 50.000			Recovery	=	51.42%	
51) 2-Fluorobiphenyl	7.259	172	547132	28.24	ppm	0.00
Spiked Amount 50.000			Recovery	=	56.48%	
73) 2,4,6-Tribromophenol	8.717	330	75871	26.44	ppm	0.00
Spiked Amount 50.000			Recovery	=	52.88%	
85) Terphenyl-d14	11.549	244	543337	24.99	ppm	0.00
Spiked Amount 50.000			Recovery	=	49.98%	
107) 1-chlorooctadecane	0.000	57	0d	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
109) o-terphenyl	0.000	230	0d	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
Target Compounds						Qvalue
2) 1,4-Dioxane	2.424	88	112315	23.77	ppm	97
3) Pyridine	2.707	79	266719	23.69	ppm	97
4) N-Nitrosodimethylamine	2.675	74	149657	23.58	ppm	100
6) Indene	5.245	116	482365	24.67	ppm	98
7) Cumene	4.288	105	669970	24.60	ppm	98
9) Phenol	4.673	94	383754	25.38	ppm	100
10) Aniline	4.700	93	407568	24.95	ppm	74
11) bis(2-Chloroethyl)ether	4.753	93	242459	24.54	ppm	98
12) 2-Chlorophenol	4.812	128	300784	24.64	ppm	97
13) Decane	4.855	43	251986	23.92	ppm	98
14) 1,3-Dichlorobenzene	4.956	146	329399	24.69	ppm	99
15) 1,4-Dichlorobenzene	5.020	146	323751	24.80	ppm	99
16) Benzyl alcohol	5.127	108	180548	25.59	ppm	99
17) 1,2-Dichlorobenzene	5.165	146	300436	24.35	ppm	99
18) Acetophenone	5.378	105	359600	24.02	ppm	96

SGS ACCUTEST JC24133

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E5P1496\
Data File : 5p29332.D
Acq On : 1 Jul 2016 3:12 pm
Operator : kristis
Sample : ic1496-25
Misc : op94797,e5p1496,1000,,,1,1
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jul 01 15:38:03 2016
Quant Method : C:\MSDCHEM\1\METHODS\M5P1496.M
Quant Title : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
QLast Update : Fri Jul 01 15:11:21 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
19) 2-Methylphenol	5.234	108	248832	25.01	ppm		99
20) 2,2'-oxybis(1-Chloropr...	5.255	45	320792	24.44	ppm		99
21) 3&4-Methylphenol	5.373	108	258456	24.40	ppm		99
22) n-Nitroso-di-n-propyla...	5.378	70	160802	23.86	ppm		99
23) Hexachloroethane	5.485	201	98230	24.96	ppm		98
26) Nitrobenzene	5.539	77	258947	25.25	ppm		98
27) Quinoline	6.554	129	570456	25.14	ppm		99
28) Isophorone	5.763	82	463439	25.54	ppm		99
29) 2-Nitrophenol	5.843	139	166913	26.08	ppm		93
30) 2,4-Dimethylphenol	5.880	107	272431	24.86	ppm		98
31) Benzoic acid	5.982	105	136521	22.21	ppm		97
32) bis(2-Chloroethoxy)met...	5.966	93	289693	24.72	ppm		99
33) 2,4-Dichlorophenol	6.073	162	241750	25.51	ppm		99
34) 2,6-Dichlorophenol	6.292	162	233474	24.81	ppm		97
35) 1,3,5-Trichlorobenzene	5.859	180	257297	25.00	ppm		98
36) 1,2,4-Trichlorobenzene	6.158	180	241876	24.92	ppm		99
37) 1,2,3-Trichlorobenzene	6.372	180	240426	25.41	ppm		99
38) Naphthalene	6.233	128	808709	25.12	ppm		99
39) 4-Chloroaniline	6.281	127	343285	25.78	ppm		98
40) 2,3-Dichloroaniline	7.179	161	278543	25.00	ppm		99
41) Caprolactam	6.618	55	108913	24.40	ppm		98
42) Hexachlorobutadiene	6.356	225	124664	25.15	ppm		98
43) 4-Chloro-3-methylphenol	6.757	107	239128	25.63	ppm		99
44) 2-Methylnaphthalene	6.901	141	461850	25.76	ppm		97
45) 1-Methylnaphthalene	7.002	141	485007	24.93	ppm		99
46) Dimethylnaphthalene	7.515	156	493805	26.03	ppm		99
48) Hexachlorocyclopentadiene	7.066	237	243344	63.34	ppm		98
49) 2,4,6-Trichlorophenol	7.184	196	154481	28.78	ppm		98
50) 2,4,5-Trichlorophenol	7.221	196	161125	28.97	ppm		96
52) 2-Chloronaphthalene	7.376	162	491693	28.18	ppm		97
53) Biphenyl	7.360	154	674149	28.66	ppm		100
54) 2-Nitroaniline	7.478	65	129675	28.96	ppm		99
55) Dimethylphthalate	7.654	163	550027	30.46	ppm		99
56) Acenaphthylene	7.788	152	793632	28.48	ppm		99
57) 2,6-Dinitrotoluene	7.713	165	123592	30.77	ppm		98
58) 3-Nitroaniline	7.878	138	137870	26.80	ppm		96
59) Acenaphthene	7.959	153	444394	25.48	ppm		98
60) 2,4-Dinitrophenol	7.980	184	90011	54.96	ppm	#	58
61) 4-Nitrophenol	8.049	109	59743	28.08	ppm		89
62) Dibenzofuran	8.124	168	585520	24.32	ppm		98
63) 2,4-Dinitrotoluene	8.108	165	148324	26.17	ppm		99
64) 2,3,4,6-Tetrachlorophenol	8.252	232	120548	28.74	ppm		98
65) Diethylphthalate	8.349	149	507016	27.76	ppm		98
66) Fluorene	8.466	166	517152	27.32	ppm		100
67) 4-Chlorophenyl-phenyle...	8.466	204	219893	26.94	ppm		97
68) 4-Nitroaniline	8.487	138	141224	27.45	ppm		97
70) 4,6-Dinitro-2-methylph...	8.520	198	79214	30.49	ppm		96
71) n-Nitrosodiphenylamine	8.584	169	350995	23.52	ppm		98
72) 1,2-Diphenylhydrazine	8.626	77	481011	25.17	ppm		97
74) 4-Bromophenyl-phenylether	8.979	248	148680	24.70	ppm		96

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E5P1496\
Data File : 5p29332.D
Acq On : 1 Jul 2016 3:12 pm
Operator : kristis
Sample : ic1496-25
Misc : op94797,e5p1496,1000,,,1,1
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jul 01 15:38:03 2016
Quant Method : C:\MSDCHEM\1\METHODS\M5P1496.M
Quant Title : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
QLast Update : Fri Jul 01 15:11:21 2016
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
75)	Hexachlorobenzene	9.059	284	158777	24.56 ppm	98
76)	Pentachlorophenol	9.273	266	156110	63.06 ppm	99
77)	Phenanthrene	9.513	178	754447	24.77 ppm	99
78)	Anthracene	9.572	178	781950	24.97 ppm	100
79)	Carbazole	9.759	167	770500	25.32 ppm	99
80)	Di-n-butylphthalate	10.197	149	939825	25.52 ppm	100
81)	Fluoranthene	11.009	202	810792	25.03 ppm	98
82)	Octadecane	9.364	57	326070	25.13 ppm	98
84)	Pyrene	11.314	202	837226	24.95 ppm	99
86)	Butylbenzylphthalate	12.275	149	417971	25.68 ppm	99
87)	Benzo[a]anthracene	13.060	228	755243	24.23 ppm	99
88)	3,3'-Dichlorobenzidine	13.044	252	297800	25.22 ppm	98
89)	Chrysene	13.114	228	742567	24.52 ppm	100
90)	bis(2-Ethylhexyl)phtha...	13.173	149	561681	25.54 ppm	98
92)	Di-n-octylphthalate	14.129	149	993839	25.24 ppm	100
93)	Benzo[b]fluoranthene	14.610	252	759433	23.49 ppm	99
94)	Benzo[k]fluoranthene	14.652	252	743647	24.17 ppm	97
95)	Benzo[a]pyrene	15.053	252	706918	24.25 ppm	97
96)	Indeno[1,2,3-cd]pyrene	16.837	276	682486m	24.45 ppm	
97)	Dibenz(a,h)acridine	16.437	279	638216	24.29 ppm	100
98)	Dibenz[a,h]anthracene	16.875	278	710813	24.38 ppm	98
99)	7,12-Dimethylbenz(a)an...	14.610	256	353034	23.77 ppm	99
100)	Benzo[g,h,i]perylene	17.329	276	711341	24.22 ppm	99

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

7.6.37

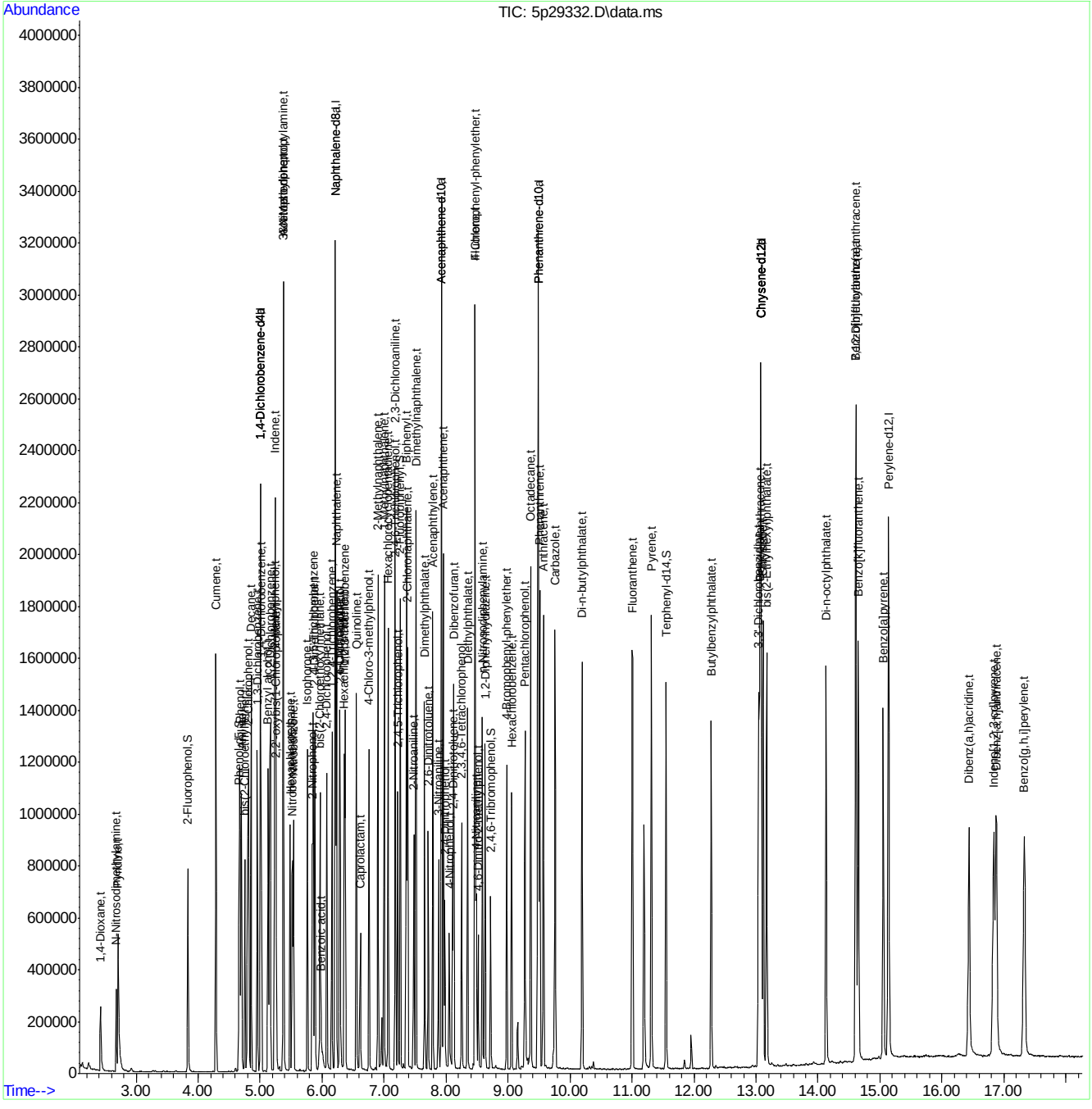
7

SGS ACCUTEST JC24133

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E5P1496\
Data File : 5p29332.D
Acq On : 1 Jul 2016 3:12 pm
Operator : kristis
Sample : ic1496-25
Misc : op94797,e5p1496,1000,,,1,1
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jul 01 15:38:03 2016
Quant Method : C:\MSDCHEM\1\METHODS\M5P1496.M
Quant Title : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
QLast Update : Fri Jul 01 15:11:21 2016
Response via : Initial Calibration



Manual Integration Approval Summary

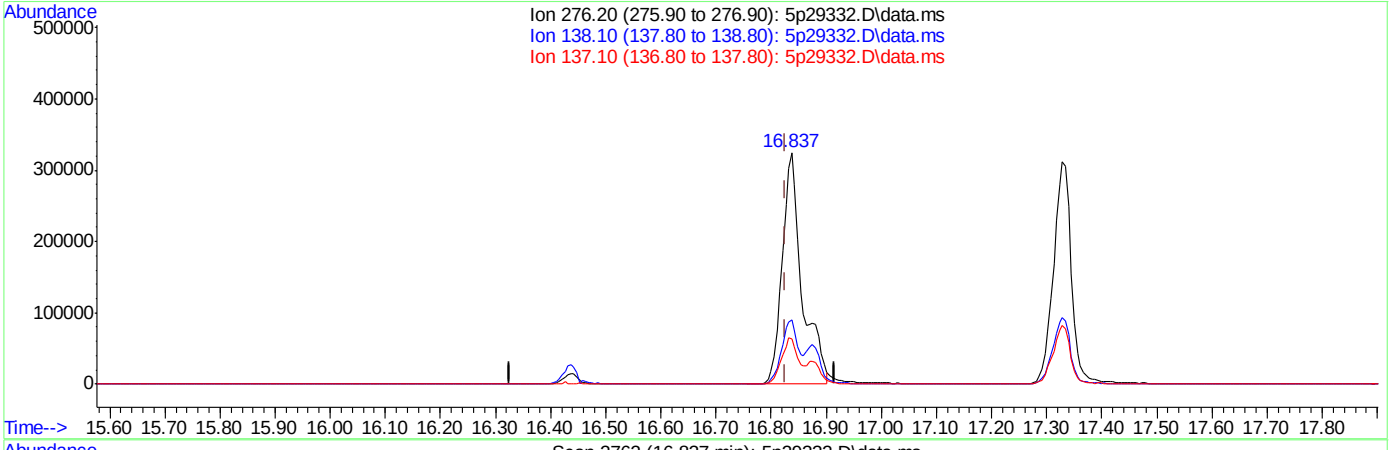
Sample Number:	E5P1496-IC1496	**Method:**	SW846 8270D
Lab FileID:	5P29332.D	**Analyst approved:**	07/03/16 16:26 Kristi Schollenberger
Injection Time:	07/01/16 15:12	**Supervisor approved:**	07/05/16 10:03 Nina Pandya

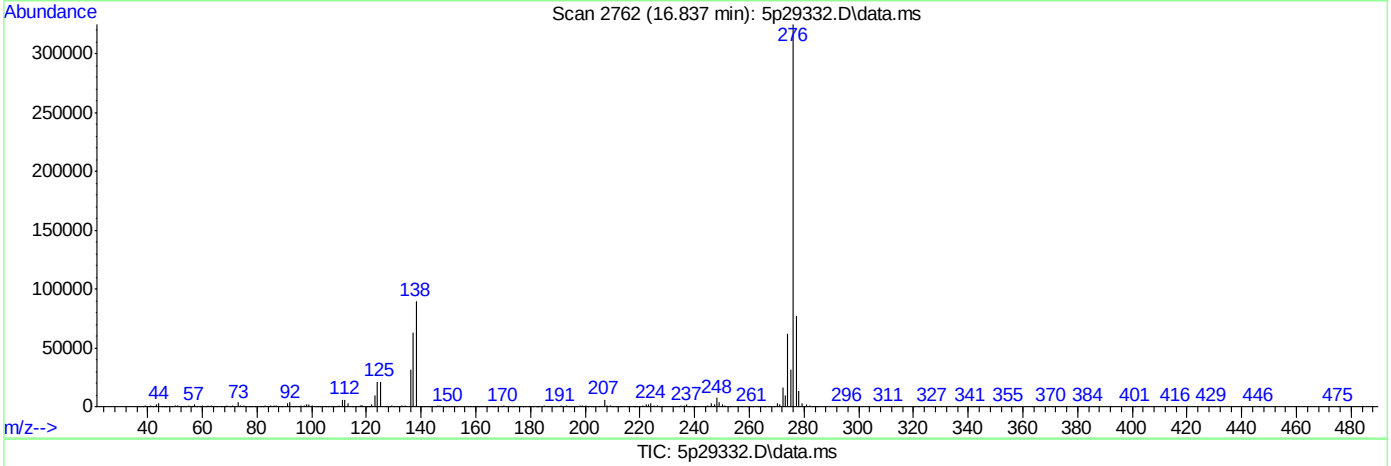
Parameter	CAS	Sig#	R.T. (min.)	Reason
Indeno(1,2,3-cd)pyrene	193-39-5		16.84	Overlapping peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E5P1496\
Data File : 5p29332.D
Acq On : 1 Jul 2016 3:12 pm
Operator : kristis
Sample : ic1496-25
Misc : op94797,e5p1496,1000,,,1,1
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jul 01 15:31:21 2016
Quant Method : C:\MSDCHEM\1\METHODS\M5P1496.M
Quant Title : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
QLast Update : Fri Jul 01 15:11:21 2016
Response via : Initial Calibration





TIC: 5p29332.D\data.ms

(96) Indeno[1,2,3-cd]pyrene (t)

16.837min (+0.011) 29.14ppm

response 813420

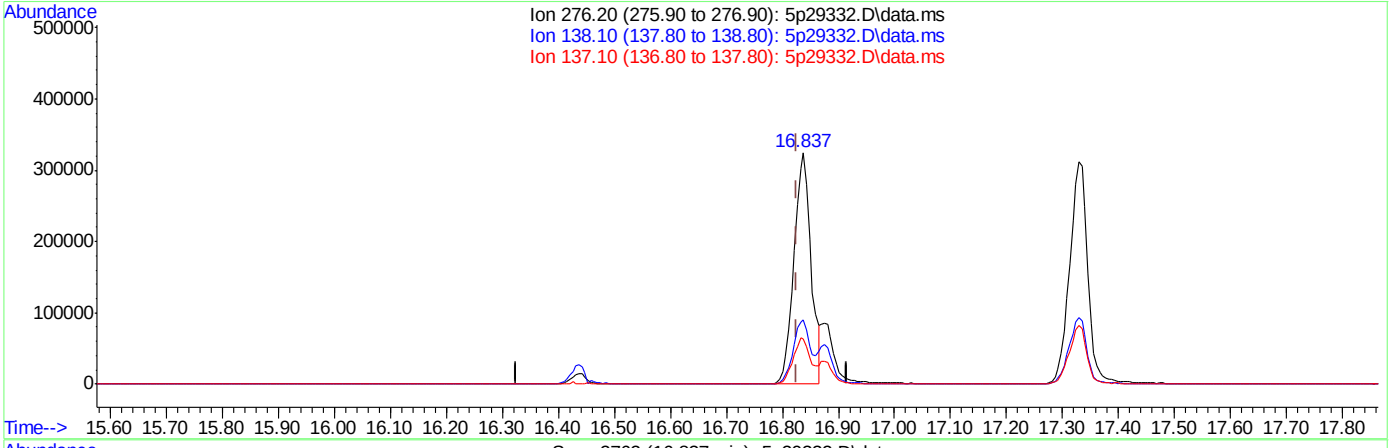
Ion	Exp%	Act%
276.20	100	100
138.10	21.30	27.01
137.10	16.30	19.14
0.00	0.00	0.00

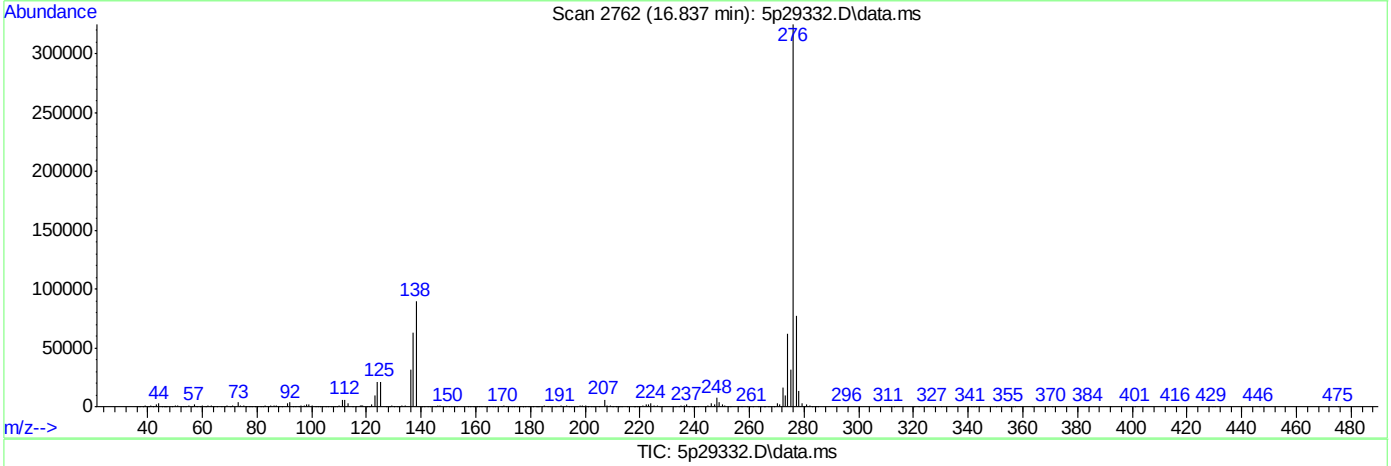
SGS ACCUTEST JC24133

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E5P1496\
Data File : 5p29332.D
Acq On : 1 Jul 2016 3:12 pm
Operator : kristis
Sample : ic1496-25
Misc : op94797,e5p1496,1000,,,1,1
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jul 01 15:31:21 2016
Quant Method : C:\MSDCHEM\1\METHODS\M5P1496.M
Quant Title : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
QLast Update : Fri Jul 01 15:11:21 2016
Response via : Initial Calibration





TIC: 5p29332.D\data.ms

(96) Indeno[1,2,3-cd]pyrene (t)

16.837min (+0.011) 24.45ppm m

response 682486

Ion	Exp%	Act%
276.20	100	100
138.10	21.30	27.67
137.10	16.30	19.43
0.00	0.00	0.00

SGS ACCUTEST JC24133

Manual Integrations APPROVED (compounds with "m" flag)
Nina Pandya
07/05/16 10:03

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E5P1496\
Data File : 5p29333.D
Acq On : 1 Jul 2016 3:38 pm
Operator : kristis
Sample : ic1496-10
Misc : op94797,e5p1496,1000,,,1,1
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jul 01 16:05:27 2016
Quant Method : C:\MSDCHEM\1\METHODS\M5P1496.M
Quant Title : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
QLast Update : Fri Jul 01 15:38:12 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	5.004	152	353772	40.00	ppm	0.00
24) Naphthalene-d8	6.211	136	1446815	40.00	ppm	0.00
47) Acenaphthene-d10	7.926	164	834002	40.00	ppm	0.00
69) Phenanthrene-d10	9.486	188	1425066	40.00	ppm	0.00
83) Chrysene-d12	13.076	240	1193359	40.00	ppm	0.00
91) Perylene-d12	15.138	264	1089112	40.00	ppm	0.00
101) 1,4-Dichlorobenzene-d4a	5.004	152	353772	40.00	ppm	0.00
103) Acenaphthene-d10a	7.926	164	834002	40.00	ppm	0.00
105) Chrysene-d12a	13.076	240	1193359	40.00	ppm	0.00
108) Phenanthrene-d10a	9.486	188	1425066	40.00	ppm	0.00
111) Naphthalene-d8a	6.211	136	1446815	40.00	ppm	0.00
113) Chrysene-d12b	13.076	240	1193359	40.00	ppm	0.00
115) 1,4-Dichlorobenzene-d4b	5.004	152	353772	40.00	ppm	0.00
117) Chrysene-d12c	13.076	240	1193359	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	3.834	112	106424	9.87	ppm	0.00
Spiked Amount 50.000			Recovery	=	19.74%	
8) Phenol-d5	4.662	99	131050	10.03	ppm	0.00
Spiked Amount 50.000			Recovery	=	20.06%	
25) Nitrobenzene-d5	5.517	82	104261	9.89	ppm	0.00
Spiked Amount 50.000			Recovery	=	19.78%	
51) 2-Fluorobiphenyl	7.259	172	233662	10.54	ppm	0.00
Spiked Amount 50.000			Recovery	=	21.08%	
73) 2,4,6-Tribromophenol	8.717	330	30148	9.94	ppm	0.00
Spiked Amount 50.000			Recovery	=	19.88%	
85) Terphenyl-d14	11.543	244	228558	10.06	ppm	0.00
Spiked Amount 50.000			Recovery	=	20.12%	
107) 1-chlorooctadecane	0.000	57	0d	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
109) o-terphenyl	0.000	230	0d	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
Target Compounds						Qvalue
2) 1,4-Dioxane	2.429	88	45182	9.30	ppm	92
3) Pyridine	2.712	79	109529	9.47	ppm	97
4) N-Nitrosodimethylamine	2.680	74	61197	9.39	ppm	93
6) Indene	5.245	116	203450	10.07	ppm	98
7) Cumene	4.288	105	273091	9.71	ppm	98
9) Phenol	4.673	94	159206	10.15	ppm	97
10) Aniline	4.700	93	172461	10.20	ppm	99
11) bis(2-Chloroethyl)ether	4.753	93	103634	10.16	ppm	97
12) 2-Chlorophenol	4.812	128	125276	9.94	ppm	98
13) Decane	4.855	43	105978	9.78	ppm	99
14) 1,3-Dichlorobenzene	4.956	146	137941	10.01	ppm	99
15) 1,4-Dichlorobenzene	5.020	146	132320	9.80	ppm	99
16) Benzyl alcohol	5.127	108	73160	9.99	ppm	97
17) 1,2-Dichlorobenzene	5.164	146	127849	10.05	ppm	99
18) Acetophenone	5.373	105	155197	10.07	ppm	98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E5P1496\
Data File : 5p29333.D
Acq On : 1 Jul 2016 3:38 pm
Operator : kristis
Sample : ic1496-10
Misc : op94797,e5p1496,1000,,,1,1
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jul 01 16:05:27 2016
Quant Method : C:\MSDCHEM\1\METHODS\M5P1496.M
Quant Title : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
QLast Update : Fri Jul 01 15:38:12 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
19) 2-Methylphenol	5.234	108	104919	10.19	ppm	97
20) 2,2'-oxybis(1-Chloropr...	5.250	45	134811	9.95	ppm	98
21) 3&4-Methylphenol	5.373	108	108986	9.97	ppm	98
22) n-Nitroso-di-n-propyla...	5.373	70	69726	10.06	ppm	97
23) Hexachloroethane	5.485	201	40800	10.02	ppm	90
26) Nitrobenzene	5.538	77	107832	9.94	ppm	99
27) Quinoline	6.548	129	238430	9.94	ppm	98
28) Isophorone	5.763	82	191765	9.97	ppm	98
29) 2-Nitrophenol	5.843	139	68652	10.09	ppm	92
30) 2,4-Dimethylphenol	5.880	107	110772	9.58	ppm	98
31) Benzoic acid	5.966	105	29438	4.64	ppm	94
32) bis(2-Chloroethoxy)met...	5.966	93	119236	9.65	ppm	98
33) 2,4-Dichlorophenol	6.073	162	102477	10.21	ppm	98
34) 2,6-Dichlorophenol	6.292	162	96249	9.69	ppm	98
35) 1,3,5-Trichlorobenzene	5.854	180	106168	9.76	ppm	96
36) 1,2,4-Trichlorobenzene	6.158	180	101747	9.93	ppm	99
37) 1,2,3-Trichlorobenzene	6.372	180	97341	9.72	ppm	95
38) Naphthalene	6.233	128	338608	9.95	ppm	99
39) 4-Chloroaniline	6.281	127	144161	10.20	ppm	99
40) 2,3-Dichloroaniline	7.178	161	118525	10.07	ppm	98
41) Caprolactam	6.601	55	44405	9.45	ppm	97
42) Hexachlorobutadiene	6.356	225	51415	9.81	ppm	96
43) 4-Chloro-3-methylphenol	6.756	107	99722	10.08	ppm	97
44) 2-Methylnaphthalene	6.901	141	195101	10.26	ppm	95
45) 1-Methylnaphthalene	6.997	141	203839	9.92	ppm	98
46) Dimethylnaphthalene	7.510	156	206097	10.22	ppm	98
48) Hexachlorocyclopentadiene	7.066	237	93686	20.91	ppm	96
49) 2,4,6-Trichlorophenol	7.178	196	65944	10.71	ppm	99
50) 2,4,5-Trichlorophenol	7.216	196	67328	10.54	ppm	99
52) 2-Chloronaphthalene	7.376	162	210141	10.53	ppm	98
53) Biphenyl	7.355	154	285460	10.58	ppm	100
54) 2-Nitroaniline	7.472	65	52629	10.23	ppm	94
55) Dimethylphthalate	7.654	163	208397	9.96	ppm	98
56) Acenaphthylene	7.782	152	315532	9.88	ppm	98
57) 2,6-Dinitrotoluene	7.707	165	45633	9.79	ppm	96
58) 3-Nitroaniline	7.873	138	57516	9.85	ppm	99
59) Acenaphthene	7.953	153	195637	9.96	ppm	97
60) 2,4-Dinitrophenol	7.980	184	25132	13.44	ppm	82
61) 4-Nitrophenol	8.049	109	23122	9.51	ppm	96
62) Dibenzofuran	8.124	168	271682	10.09	ppm	99
63) 2,4-Dinitrotoluene	8.103	165	63344	9.88	ppm	94
64) 2,3,4,6-Tetrachlorophenol	8.252	232	48621	10.10	ppm	93
65) Diethylphthalate	8.348	149	211319	10.14	ppm	98
66) Fluorene	8.466	166	214434	9.95	ppm	97
67) 4-Chlorophenyl-phenyle...	8.466	204	89991	9.71	ppm	98
68) 4-Nitroaniline	8.482	138	59451	10.15	ppm	97
70) 4,6-Dinitro-2-methylph...	8.514	198	26641	9.48	ppm	94
71) n-Nitrosodiphenylamine	8.583	169	157123	10.13	ppm	97
72) 1,2-Diphenylhydrazine	8.626	77	204854	10.21	ppm	96
74) 4-Bromophenyl-phenylether	8.979	248	60761	9.64	ppm	96

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E5P1496\
Data File : 5p29333.D
Acq On : 1 Jul 2016 3:38 pm
Operator : kristis
Sample : ic1496-10
Misc : op94797,e5p1496,1000,,,1,1
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jul 01 16:05:27 2016
Quant Method : C:\MSDCHEM\1\METHODS\M5P1496.M
Quant Title : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
QLast Update : Fri Jul 01 15:38:12 2016
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
75)	Hexachlorobenzene	9.054	284	67679	10.01 ppm	90
76)	Pentachlorophenol	9.273	266	50879	18.90 ppm	98
77)	Phenanthrene	9.508	178	322015	10.10 ppm	99
78)	Anthracene	9.566	178	335469	10.22 ppm	99
79)	Carbazole	9.753	167	324710	10.16 ppm	100
80)	Di-n-butylphthalate	10.191	149	386761	9.99 ppm	100
81)	Fluoranthene	11.003	202	338555	9.97 ppm	99
82)	Octadecane	9.363	57	138830	10.20 ppm	98
84)	Pyrene	11.313	202	355515	10.14 ppm	99
86)	Butylbenzylphthalate	12.275	149	168170	9.85 ppm	99
87)	Benzo[a]anthracene	13.060	228	319053	9.84 ppm	99
88)	3,3'-Dichlorobenzidine	13.039	252	120570	9.76 ppm	99
89)	Chrysene	13.108	228	309971	9.82 ppm	99
90)	bis(2-Ethylhexyl)phtha...	13.172	149	226011	9.80 ppm	97
92)	Di-n-octylphthalate	14.129	149	388616	9.80 ppm	99
93)	Benzo[b]fluoranthene	14.604	252	317756	9.85 ppm	99
94)	Benzo[k]fluoranthene	14.647	252	302160	9.81 ppm	99
95)	Benzo[a]pyrene	15.048	252	284597	9.75 ppm	97
96)	Indeno[1,2,3-cd]pyrene	16.826	276	264980m	9.47 ppm	
97)	Dibenz(a,h)acridine	16.431	279	253867	9.64 ppm	98
98)	Dibenz[a,h]anthracene	16.864	278	288122	9.86 ppm	98
99)	7,12-Dimethylbenz(a)an...	14.604	256	145561	9.81 ppm	99
100)	Benzo[g,h,i]perylene	17.318	276	281125	9.55 ppm	99

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

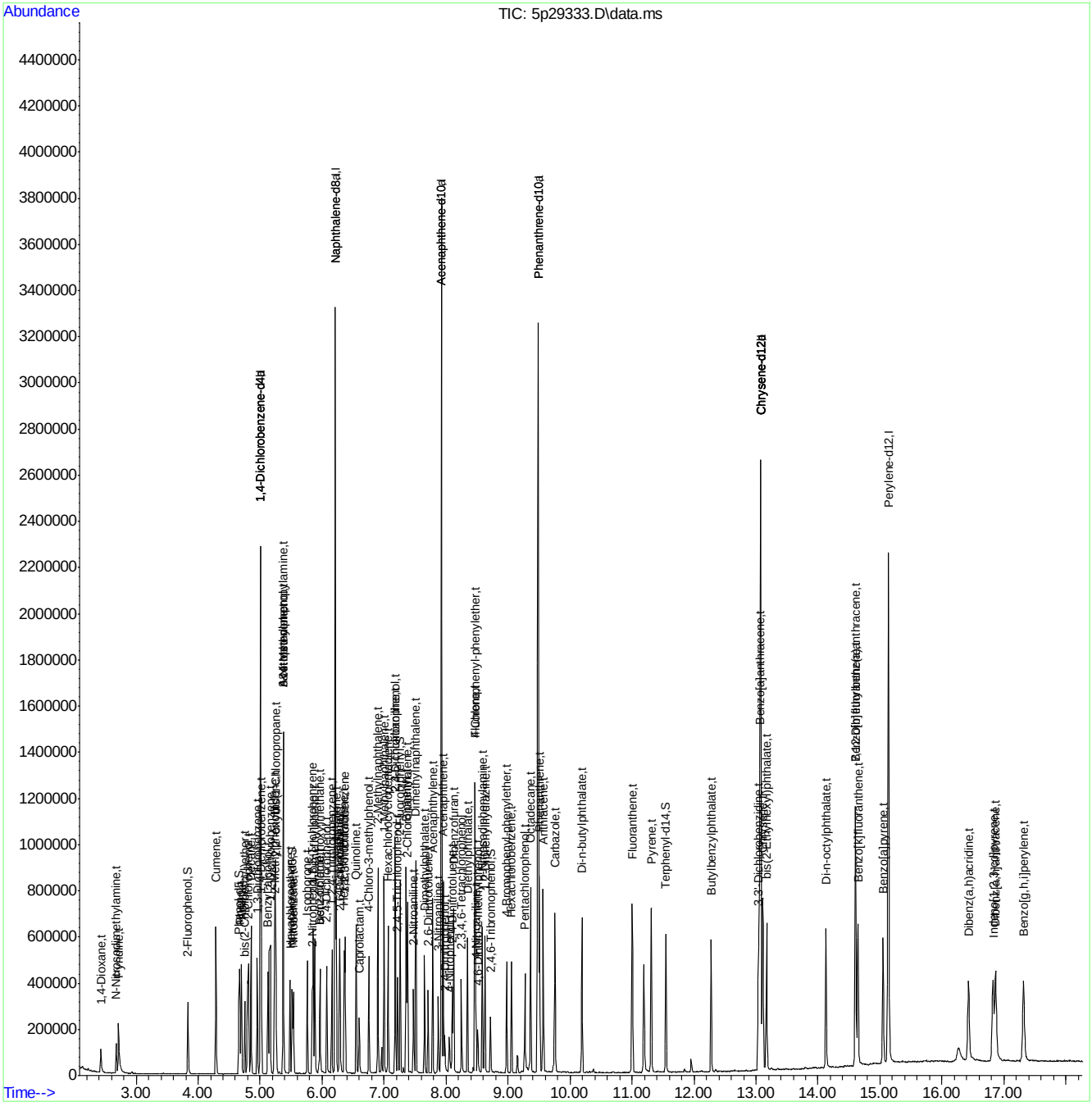
7.6.38

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E5P1496\
Data File : 5p29333.D
Acq On : 1 Jul 2016 3:38 pm
Operator : kristis
Sample : ic1496-10
Misc : op94797,e5p1496,1000,,,1,1
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jul 01 16:05:27 2016
Quant Method : C:\MSDCHEM\1\METHODS\M5P1496.M
Quant Title : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
QLast Update : Fri Jul 01 15:38:12 2016
Response via : Initial Calibration



SGS ACCUTEST JC24133

Manual Integration Approval Summary

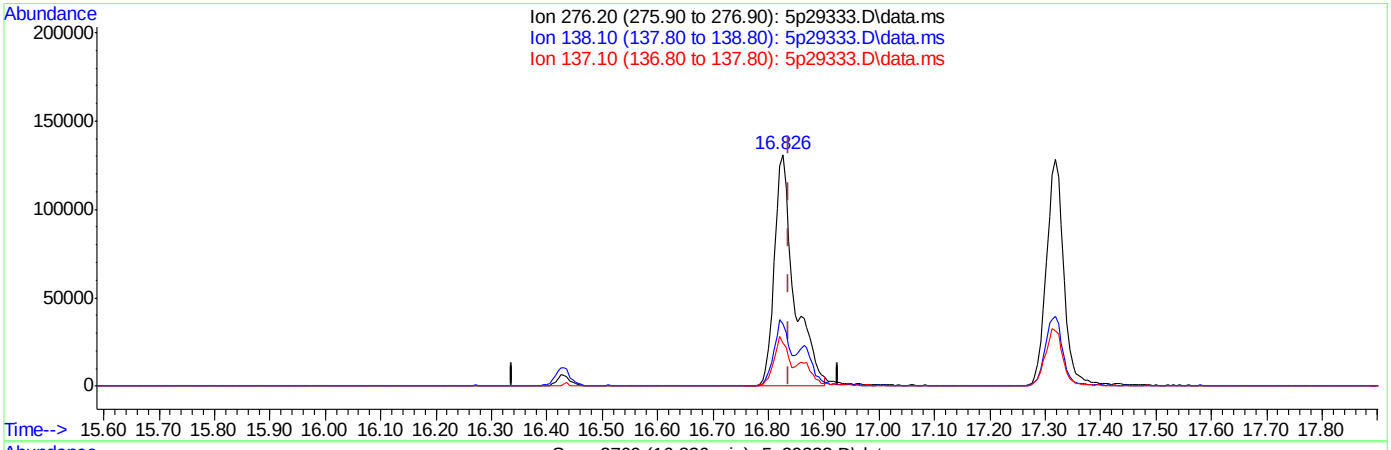
Sample Number:	E5P1496-IC1496	**Method:**	SW846 8270D
Lab FileID:	5P29333.D	**Analyst approved:**	07/03/16 16:26 Kristi Schollenberger
Injection Time:	07/01/16 15:38	**Supervisor approved:**	07/05/16 10:03 Nina Pandya

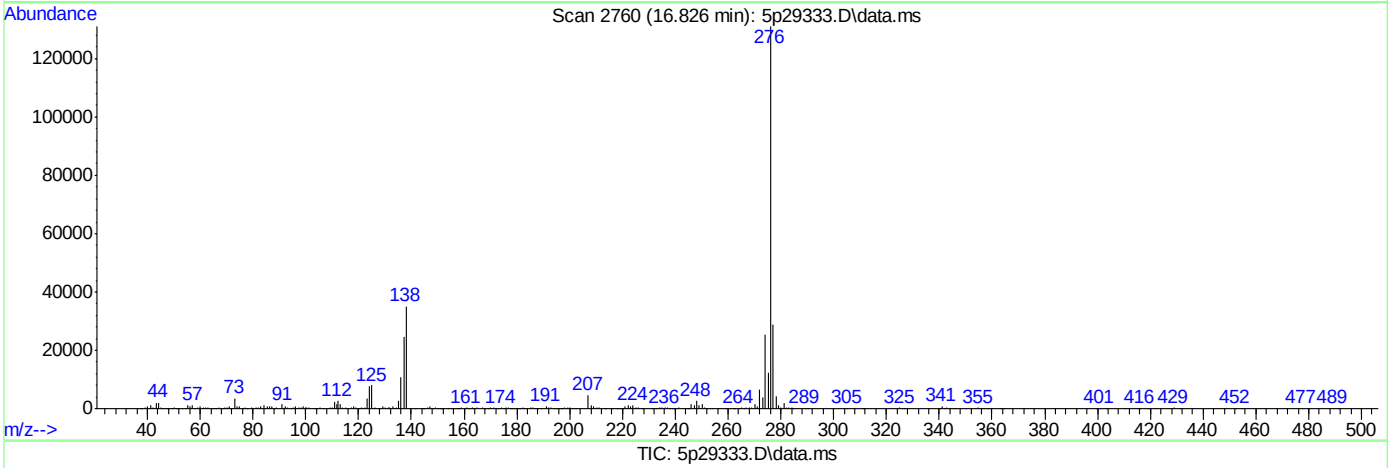
Parameter	CAS	Sig#	R.T. (min.)	Reason
Indeno(1,2,3-cd)pyrene	193-39-5		16.83	Overlapping peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E5P1496\
Data File : 5p29333.D
Acq On : 1 Jul 2016 3:38 pm
Operator : kristis
Sample : ic1496-10
Misc : op94797,e5p1496,1000,,,1,1
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jul 01 15:56:33 2016
Quant Method : C:\MSDCHEM\1\METHODS\M5P1496.M
Quant Title : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
QLast Update : Fri Jul 01 15:38:12 2016
Response via : Initial Calibration





TIC: 5p29333.D\data.ms

(96) Indeno[1,2,3-cd]pyrene (t)

16.826min (-0.011) 11.69ppm

response 327396

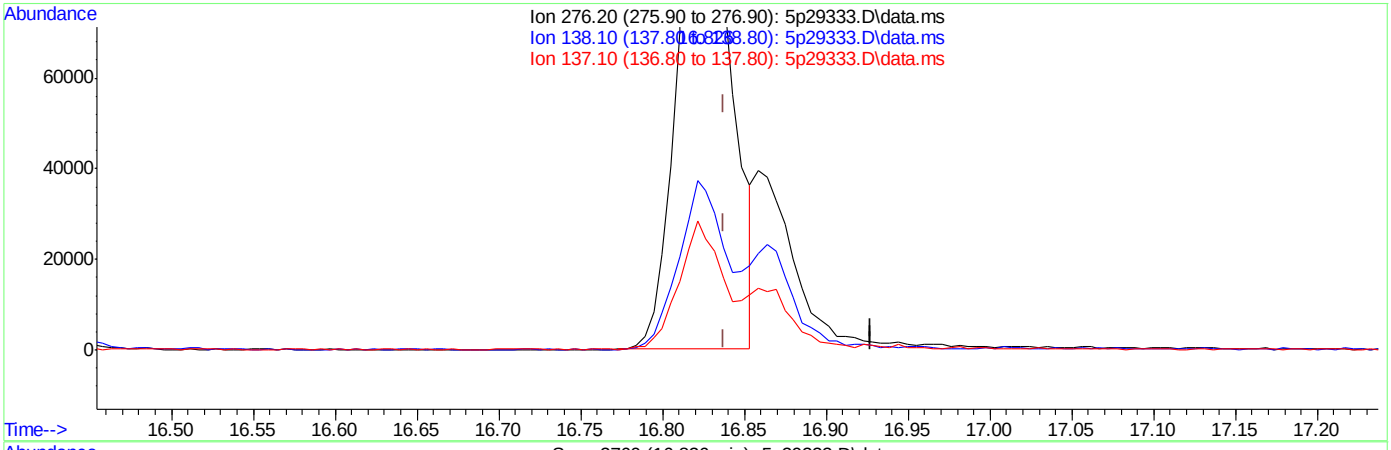
Ion	Exp%	Act%
276.20	100	100
138.10	27.70	26.55
137.10	19.40	18.47
0.00	0.00	0.00

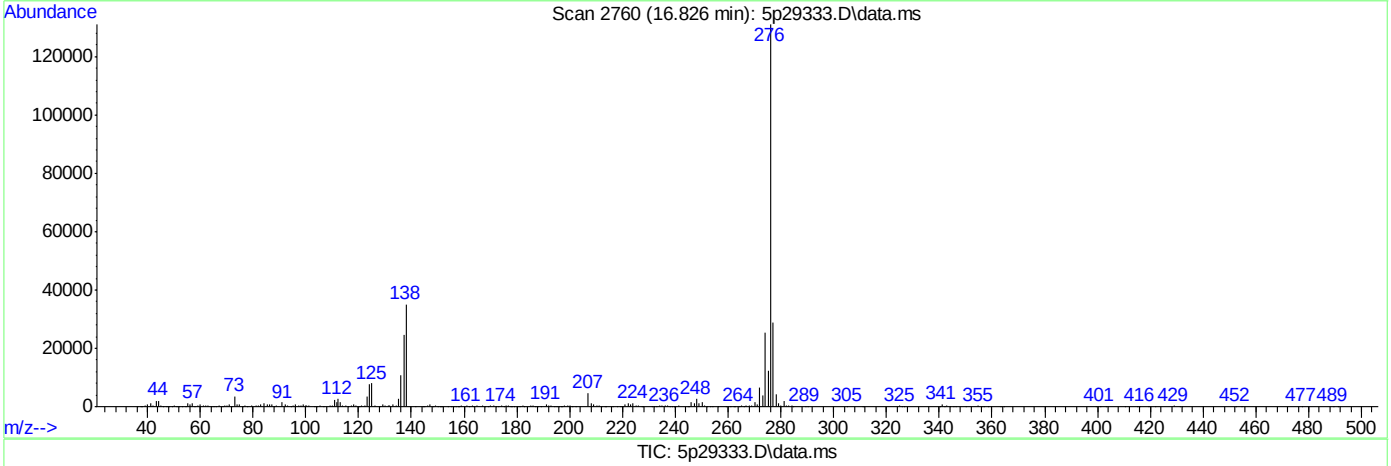
SGS ACCUTEST JC24133

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E5P1496\
Data File : 5p29333.D
Acq On : 1 Jul 2016 3:38 pm
Operator : kristis
Sample : ic1496-10
Misc : op94797,e5p1496,1000,,,1,1
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jul 01 15:56:33 2016
Quant Method : C:\MSDCHEM\1\METHODS\M5P1496.M
Quant Title : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
QLast Update : Fri Jul 01 15:38:12 2016
Response via : Initial Calibration





TIC: 5p29333.D\data.ms

(96) Indeno[1,2,3-cd]pyrene (t)

16.826min (-0.011) 9.47ppm m

response 264980

Ion	Exp%	Act%
276.20	100	100
138.10	27.70	26.81
137.10	19.40	18.76
0.00	0.00	0.00

SGS ACCUTEST JC24133

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E5P1497\
Data File : 5p29336.D
Acq On : 1 Jul 2016 5:03 pm
Operator : ashleyn
Sample : ic1497-100
Misc : op94797,e5p1497
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 03 14:33:56 2016
Quant Method : C:\MSDCHEM\1\METHODS\M5P1496.M
Quant Title : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
QLast Update : Sun Jul 03 14:33:00 2016
Response via : Initial Calibration

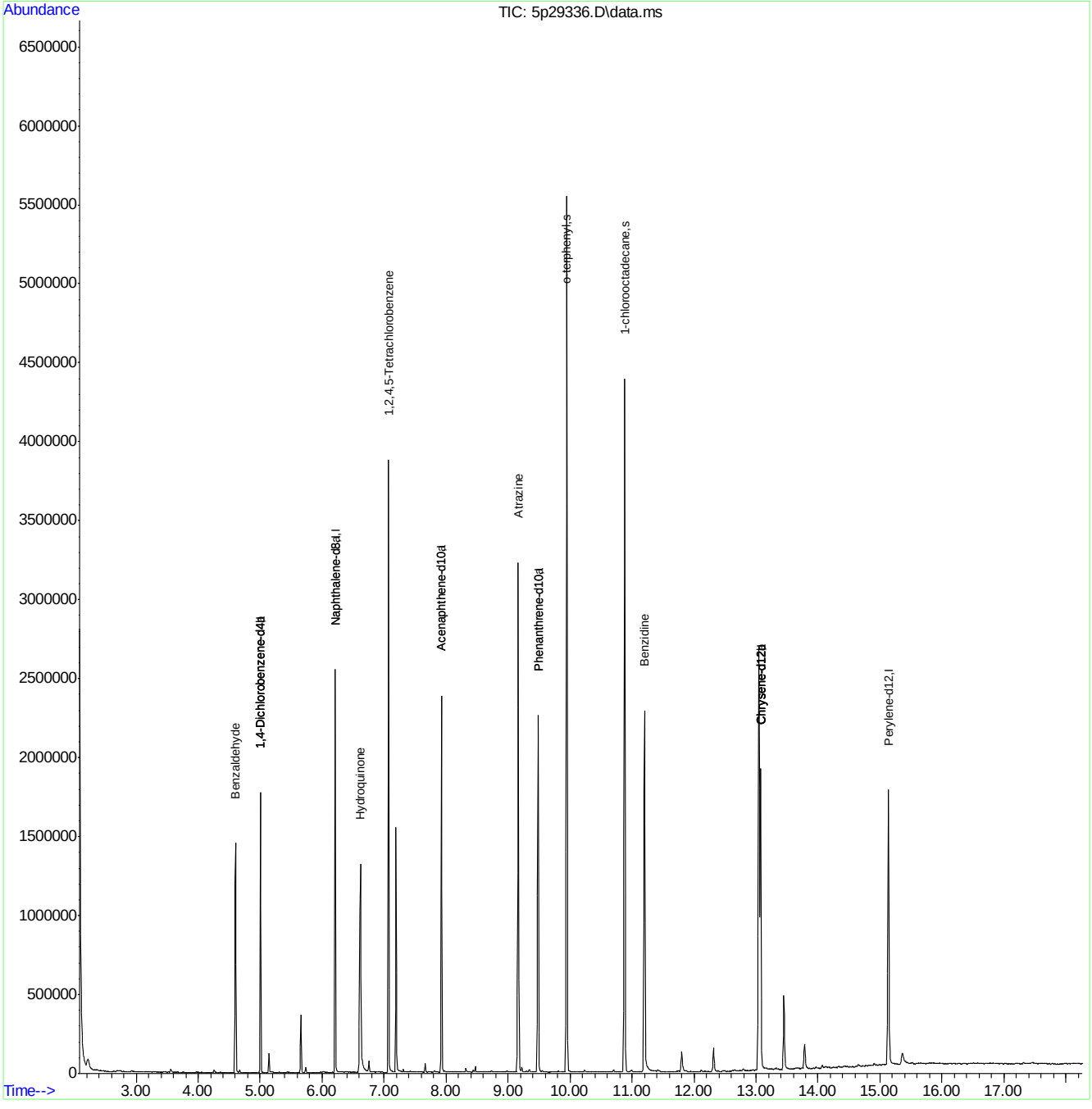
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	5.004	152	255018	40.00	ppm	0.00
24) Naphthalene-d8	6.212	136	1099788	40.00	ppm	0.00
47) Acenaphthene-d10	7.926	164	516521	40.00	ppm	0.00
69) Phenanthrene-d10	9.486	188	953071	40.00	ppm	0.00
83) Chrysene-d12	13.076	240	868216	40.00	ppm	0.00
91) Perylene-d12	15.139	264	866983	40.00	ppm	0.00
101) 1,4-Dichlorobenzene-d4a	5.004	152	255018	40.00	ppm	0.00
103) Acenaphthene-d10a	7.926	164	516521	40.00	ppm	0.00
105) Chrysene-d12a	13.076	240	868216	40.00	ppm	0.00
108) Phenanthrene-d10a	9.486	188	953071	40.00	ppm	0.00
111) Naphthalene-d8a	6.212	136	1099788	40.00	ppm	0.00
113) Chrysene-d12b	13.076	240	868216	40.00	ppm	0.00
115) 1,4-Dichlorobenzene-d4b	5.004	152	255000	40.00	ppm	0.00
117) Chrysene-d12c	13.076	240	868216	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	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	0d	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
107) 1-chlorooctadecane	10.881	57	632768	100.00	ppm	0.00
Spiked Amount 50.000			Recovery	=	200.00%	
109) o-terphenyl	9.946	230	1230744	100.00	ppm	0.00
Spiked Amount 50.000			Recovery	=	200.00%	
Target Compounds						Qvalue
102) Benzaldehyde	4.604	105	272977	100.00	ppm	100
104) 1,2,4,5-Tetrachloroben...	7.072	216	636551	100.00	ppm	100
106) Benzidine	11.201	184	1097628	100.00	ppm	100
110) Atrazine	9.166	215	238688	100.00	ppm	100
112) Hydroquinone	6.618	110	928860	100.00	ppm	100

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E5P1497\
Data File : 5p29336.D
Acq On : 1 Jul 2016 5:03 pm
Operator : ashleyn
Sample : ic1497-100
Misc : op94797,e5p1497
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 03 14:33:56 2016
Quant Method : C:\MSDCHEM\1\METHODS\M5P1496.M
Quant Title : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
QLast Update : Sun Jul 03 14:33:00 2016
Response via : Initial Calibration



SGS ACCUTEST JC24133

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E5P1497\
Data File : 5p29337.D
Acq On : 1 Jul 2016 5:29 pm
Operator : ashleyn
Sample : ic1497-80
Misc : op94797,e5p1497
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 03 14:35:06 2016
Quant Method : C:\MSDCHEM\1\METHODS\M5P1496.M
Quant Title : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
QLast Update : Sun Jul 03 14:33:00 2016
Response via : Initial Calibration

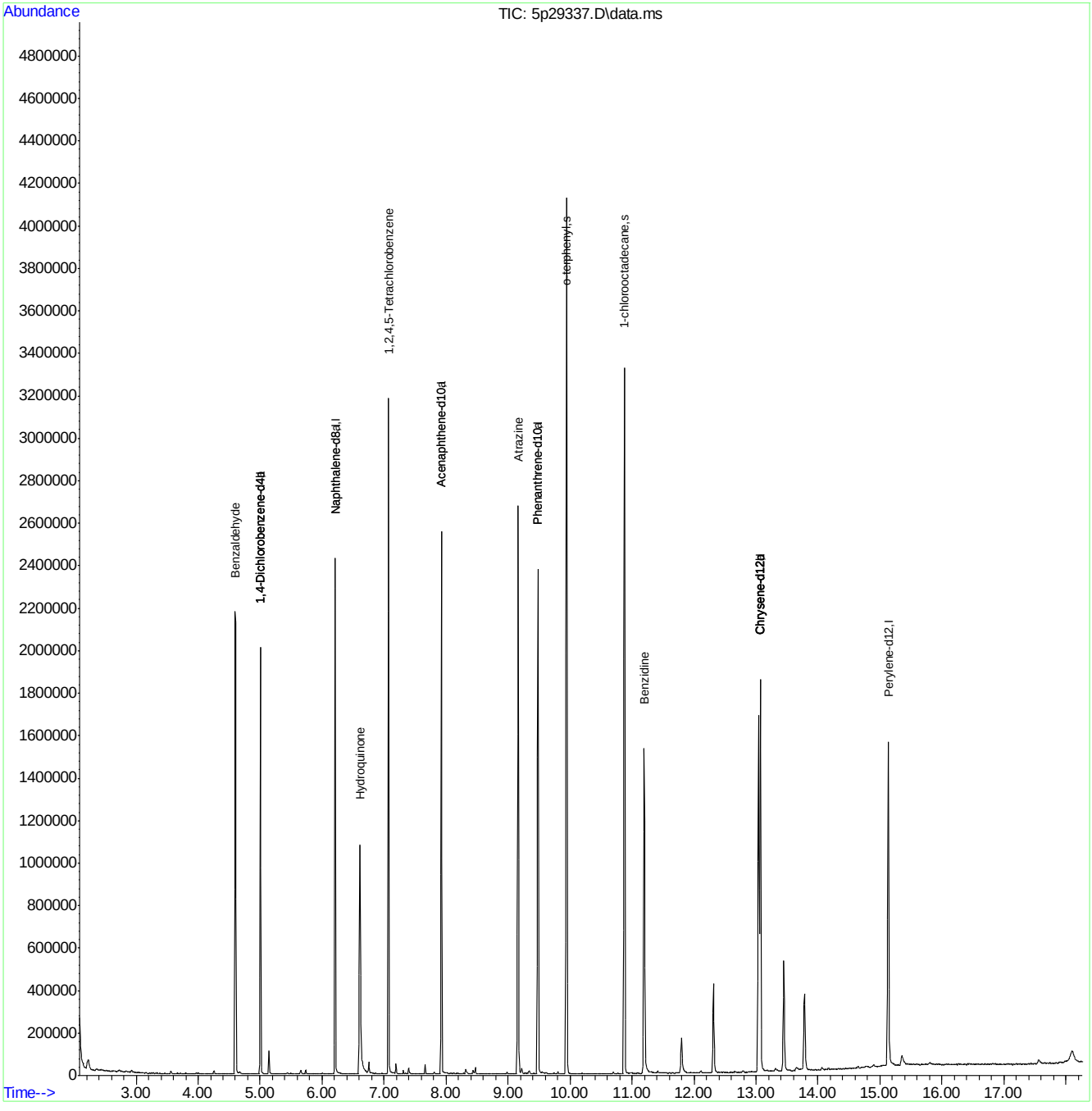
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1,4-Dichlorobenzene-d4	5.004	152	309836	40.00 ppm	0.00
24) Naphthalene-d8	6.212	136	1155008	40.00 ppm	0.00
47) Acenaphthene-d10	7.927	164	600250	40.00 ppm	0.00
69) Phenanthrene-d10	9.481	188	964798	40.00 ppm	0.00
83) Chrysene-d12	13.071	240	801160	40.00 ppm	0.00
91) Perylene-d12	15.139	264	779640	40.00 ppm	0.00
101) 1,4-Dichlorobenzene-d4a	5.004	152	309836	40.00 ppm	0.00
103) Acenaphthene-d10a	7.927	164	600250	40.00 ppm	0.00
105) Chrysene-d12a	13.071	240	801191	40.00 ppm	0.00
108) Phenanthrene-d10a	9.481	188	964798	40.00 ppm	0.00
111) Naphthalene-d8a	6.212	136	1155008	40.00 ppm	0.00
113) Chrysene-d12b	13.071	240	801191	40.00 ppm	0.00
115) 1,4-Dichlorobenzene-d4b	5.004	152	309836	40.00 ppm	0.00
117) Chrysene-d12c	13.071	240	801191	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	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	0d	0.00 ppm	
Spiked Amount 50.000			Recovery	= 0.00%	
107) 1-chlorooctadecane	10.875	57	498497	85.37 ppm	0.00
Spiked Amount 50.000			Recovery	= 170.74%	
109) o-terphenyl	9.946	230	931220	74.74 ppm	0.00
Spiked Amount 50.000			Recovery	= 149.48%	
Target Compounds					Qvalue
102) Benzaldehyde	4.604	105	455035	137.20 ppm	98
104) 1,2,4,5-Tetrachloroben...	7.072	216	521845	70.54 ppm	100
106) Benzidine	11.196	184	755005	74.54 ppm	98
110) Atrazine	9.166	215	195836	81.05 ppm	92
112) Hydroquinone	6.612	110	759605	77.87 ppm	98

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E5P1497\
Data File : 5p29337.D
Acq On : 1 Jul 2016 5:29 pm
Operator : ashleyn
Sample : ic1497-80
Misc : op94797,e5p1497
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 03 14:35:06 2016
Quant Method : C:\MSDCHEM\1\METHODS\M5P1496.M
Quant Title : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
QLast Update : Sun Jul 03 14:33:00 2016
Response via : Initial Calibration



M5P1496.M Sun Jul 03 16:33:35 2016 RPT1 Page: 2

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E5P1497\
Data File : 5p29338.D
Acq On : 1 Jul 2016 5:54 pm
Operator : ashleyn
Sample : icc1497-50
Misc : op94797,e5p1497
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jul 03 14:36:17 2016
Quant Method : C:\MSDCHEM\1\METHODS\M5P1496.M
Quant Title : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
QLast Update : Sun Jul 03 14:33:00 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	5.004	152	281501	40.00	ppm	0.00
24) Naphthalene-d8	6.212	136	1077859	40.00	ppm	0.00
47) Acenaphthene-d10	7.926	164	609230	40.00	ppm	0.00
69) Phenanthrene-d10	9.481	188	950186	40.00	ppm	0.00
83) Chrysene-d12	13.071	240	958058	40.00	ppm	0.00
91) Perylene-d12	15.133	264	891697	40.00	ppm	0.00
101) 1,4-Dichlorobenzene-d4a	5.004	152	281501	40.00	ppm	0.00
103) Acenaphthene-d10a	7.926	164	609230	40.00	ppm	0.00
105) Chrysene-d12a	13.071	240	958058	40.00	ppm	0.00
108) Phenanthrene-d10a	9.481	188	950186	40.00	ppm	0.00
111) Naphthalene-d8a	6.212	136	1077859	40.00	ppm	0.00
113) Chrysene-d12b	13.071	240	958058	40.00	ppm	0.00
115) 1,4-Dichlorobenzene-d4b	5.004	152	281481	40.00	ppm	0.00
117) Chrysene-d12c	13.071	240	958060	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	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	0d	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
107) 1-chlorooctadecane	10.875	57	356127	51.00	ppm	0.00
Spiked Amount 50.000			Recovery	=	102.00%	
109) o-terphenyl	9.940	230	643448	52.44	ppm	0.00
Spiked Amount 50.000			Recovery	=	104.88%	
Target Compounds						Qvalue
102) Benzaldehyde	4.598	105	343347	113.95	ppm	98
104) 1,2,4,5-Tetrachloroben...	7.072	216	348881	46.47	ppm	98
106) Benzidine	11.196	184	558325	46.10	ppm	100
110) Atrazine	9.160	215	114978	48.32	ppm	95
112) Hydroquinone	6.607	110	468030	51.41	ppm	98

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

7.6.41

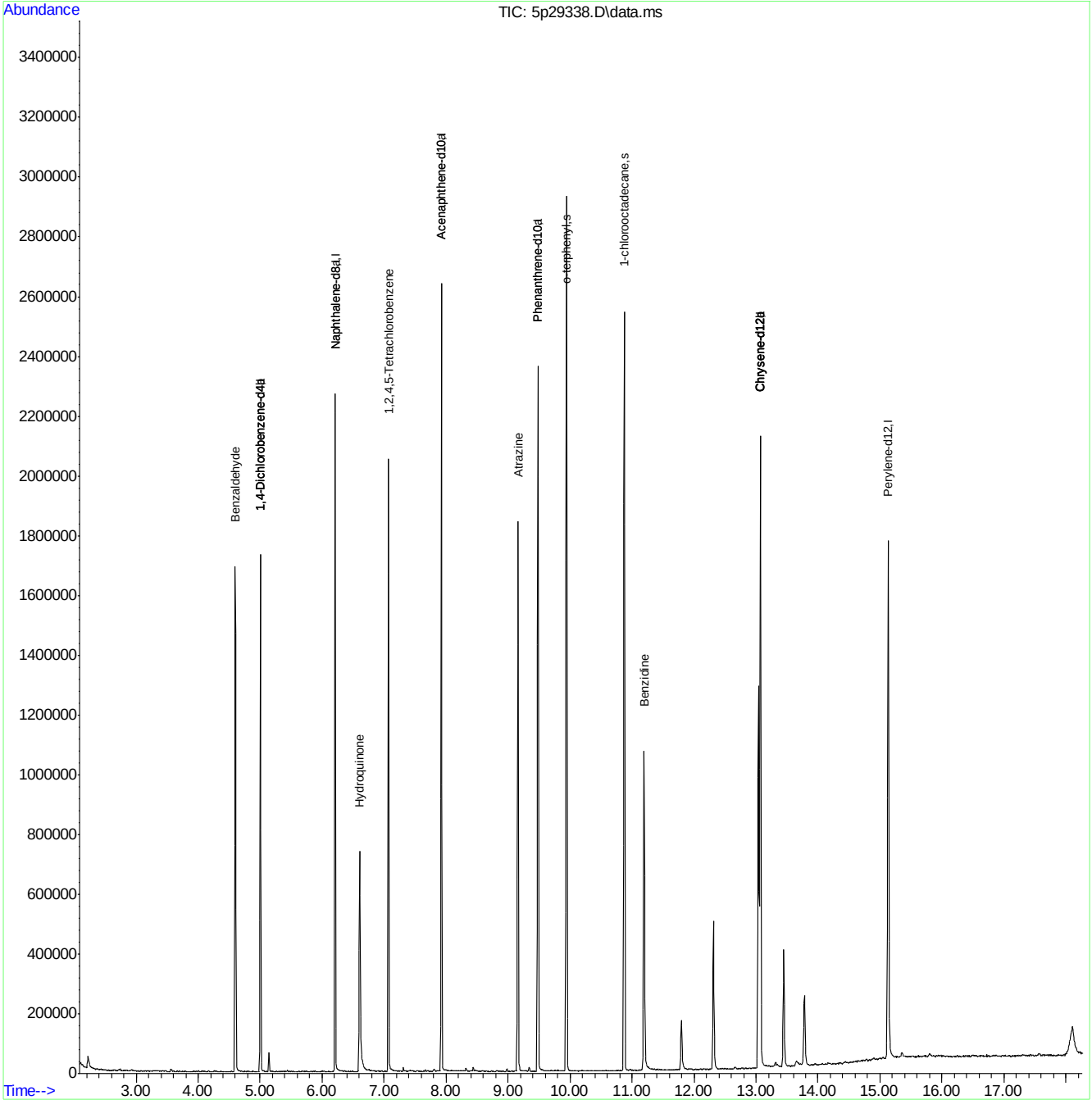
7

SGS ACCUTEST JC24133

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E5P1497\
Data File : 5p29338.D
Acq On : 1 Jul 2016 5:54 pm
Operator : ashleyn
Sample : icc1497-50
Misc : op94797,e5p1497
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jul 03 14:36:17 2016
Quant Method : C:\MSDCHEM\1\METHODS\M5P1496.M
Quant Title : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
QLast Update : Sun Jul 03 14:33:00 2016
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E5P1497\
Data File : 5p29339.D
Acq On : 1 Jul 2016 6:20 pm
Operator : ashleyn
Sample : ic1497-25
Misc : op94797,e5p1497
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jul 03 14:37:19 2016
Quant Method : C:\MSDCHEM\1\METHODS\M5P1496.M
Quant Title : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
QLast Update : Sun Jul 03 14:33:00 2016
Response via : Initial Calibration

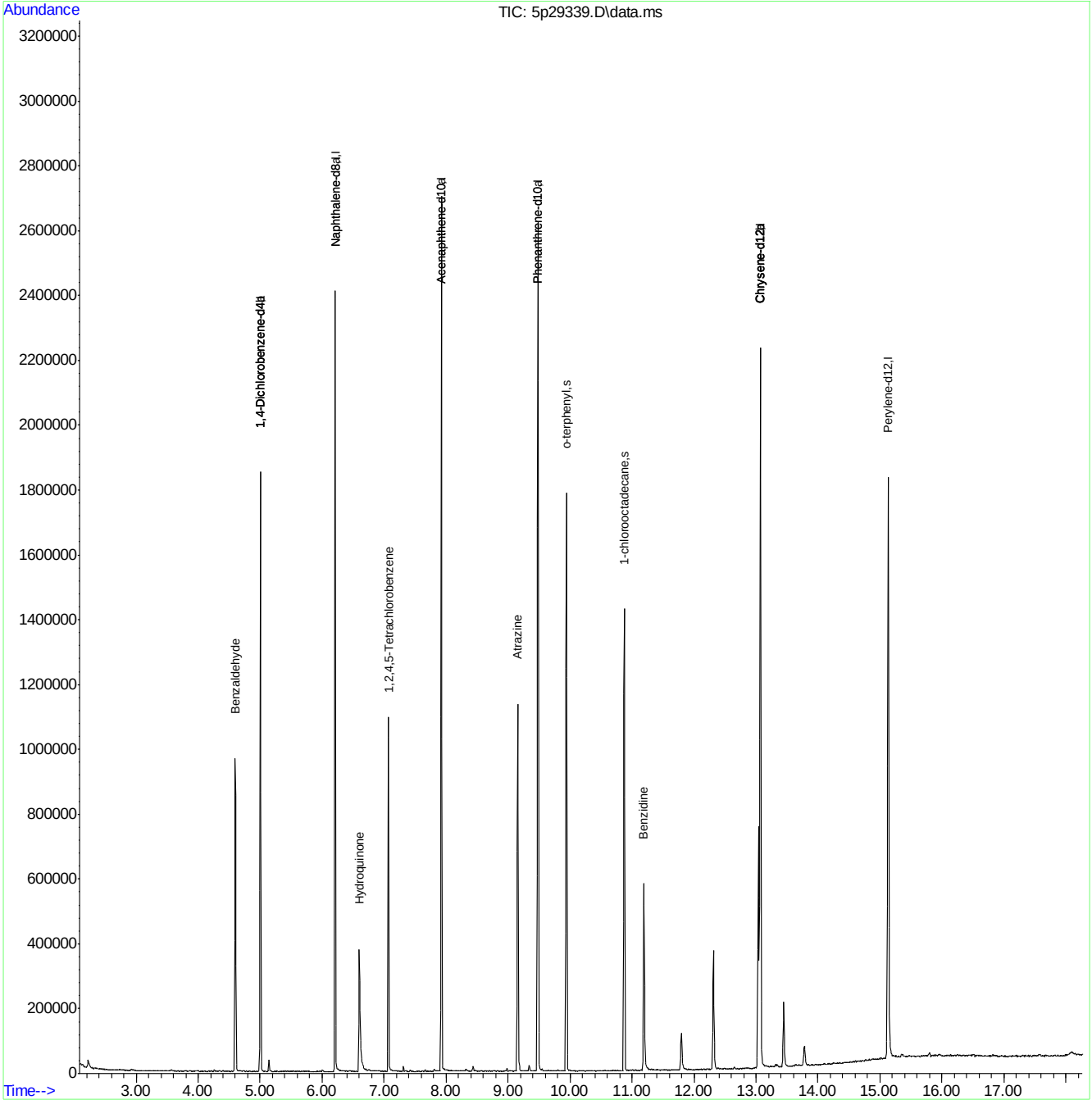
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	5.004	152	300485	40.00	ppm	0.00
24) Naphthalene-d8	6.211	136	1154695	40.00	ppm	0.00
47) Acenaphthene-d10	7.926	164	654430	40.00	ppm	0.00
69) Phenanthrene-d10	9.481	188	1057055	40.00	ppm	0.00
83) Chrysene-d12	13.071	240	995538	40.00	ppm	0.00
91) Perylene-d12	15.133	264	921849	40.00	ppm	0.00
101) 1,4-Dichlorobenzene-d4a	5.004	152	300485	40.00	ppm	0.00
103) Acenaphthene-d10a	7.926	164	654430	40.00	ppm	0.00
105) Chrysene-d12a	13.071	240	995538	40.00	ppm	0.00
108) Phenanthrene-d10a	9.481	188	1057055	40.00	ppm	0.00
111) Naphthalene-d8a	6.211	136	1154695	40.00	ppm	0.00
113) Chrysene-d12b	13.071	240	995538	40.00	ppm	0.00
115) 1,4-Dichlorobenzene-d4b	5.004	152	300485	40.00	ppm	0.00
117) Chrysene-d12c	13.071	240	995538	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	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	0d	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
107) 1-chlorooctadecane	10.875	57	190891	26.31	ppm	0.00
Spiked Amount 50.000			Recovery	=	52.62%	
109) o-terphenyl	9.940	230	362212	26.54	ppm	0.00
Spiked Amount 50.000			Recovery	=	53.08%	
Target Compounds						Qvalue
102) Benzaldehyde	4.598	105	194760	60.55	ppm	99
104) 1,2,4,5-Tetrachloroben...	7.071	216	194717	24.14	ppm	98
106) Benzidine	11.190	184	279474	22.21	ppm	99
110) Atrazine	9.155	215	69149	26.12	ppm	95
112) Hydroquinone	6.601	110	247580	25.39	ppm	97

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E5P1497\
Data File : 5p29339.D
Acq On : 1 Jul 2016 6:20 pm
Operator : ashleyn
Sample : ic1497-25
Misc : op94797,e5p1497
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jul 03 14:37:19 2016
Quant Method : C:\MSDCHEM\1\METHODS\M5P1496.M
Quant Title : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
QLast Update : Sun Jul 03 14:33:00 2016
Response via : Initial Calibration



SGS ACCUTEST JC24133

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E5P1497\
Data File : 5p29340.D
Acq On : 1 Jul 2016 6:46 pm
Operator : ashleyn
Sample : ic1497-10
Misc : op94797,e5p1497
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jul 03 14:38:12 2016
Quant Method : C:\MSDCHEM\1\METHODS\M5P1496.M
Quant Title : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
QLast Update : Sun Jul 03 14:33:00 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	5.004	152	430156	40.00	ppm	0.00
24) Naphthalene-d8	6.212	136	1630997	40.00	ppm	0.00
47) Acenaphthene-d10	7.926	164	887625	40.00	ppm	0.00
69) Phenanthrene-d10	9.481	188	1429309	40.00	ppm	0.00
83) Chrysene-d12	13.076	240	1358438	40.00	ppm	0.00
91) Perylene-d12	15.138	264	1274799	40.00	ppm	0.00
101) 1,4-Dichlorobenzene-d4a	5.004	152	430156	40.00	ppm	0.00
103) Acenaphthene-d10a	7.926	164	887625	40.00	ppm	0.00
105) Chrysene-d12a	13.076	240	1358442	40.00	ppm	0.00
108) Phenanthrene-d10a	9.481	188	1429309	40.00	ppm	0.00
111) Naphthalene-d8a	6.212	136	1630997	40.00	ppm	0.00
113) Chrysene-d12b	13.076	240	1358442	40.00	ppm	0.00
115) 1,4-Dichlorobenzene-d4b	5.004	152	430156	40.00	ppm	0.00
117) Chrysene-d12c	13.076	240	1358442	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	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	0d	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
85) Terphenyl-d14	0.000	244	0d	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
107) 1-chlorooctadecane	10.875	57	103673	10.47	ppm	0.00
Spiked Amount 50.000			Recovery	=	20.94%	
109) o-terphenyl	9.940	230	205103	11.11	ppm	0.00
Spiked Amount 50.000			Recovery	=	22.22%	
Target Compounds						Qvalue
102) Benzaldehyde	4.604	105	110245	23.94	ppm	94
104) 1,2,4,5-Tetrachloroben...	7.066	216	110569	10.11	ppm	97
106) Benzidine	11.191	184	209181	12.18	ppm	99
110) Atrazine	9.155	215	38489	10.75	ppm	96
112) Hydroquinone	6.602	110	122139	8.87	ppm	98

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

7.6.43

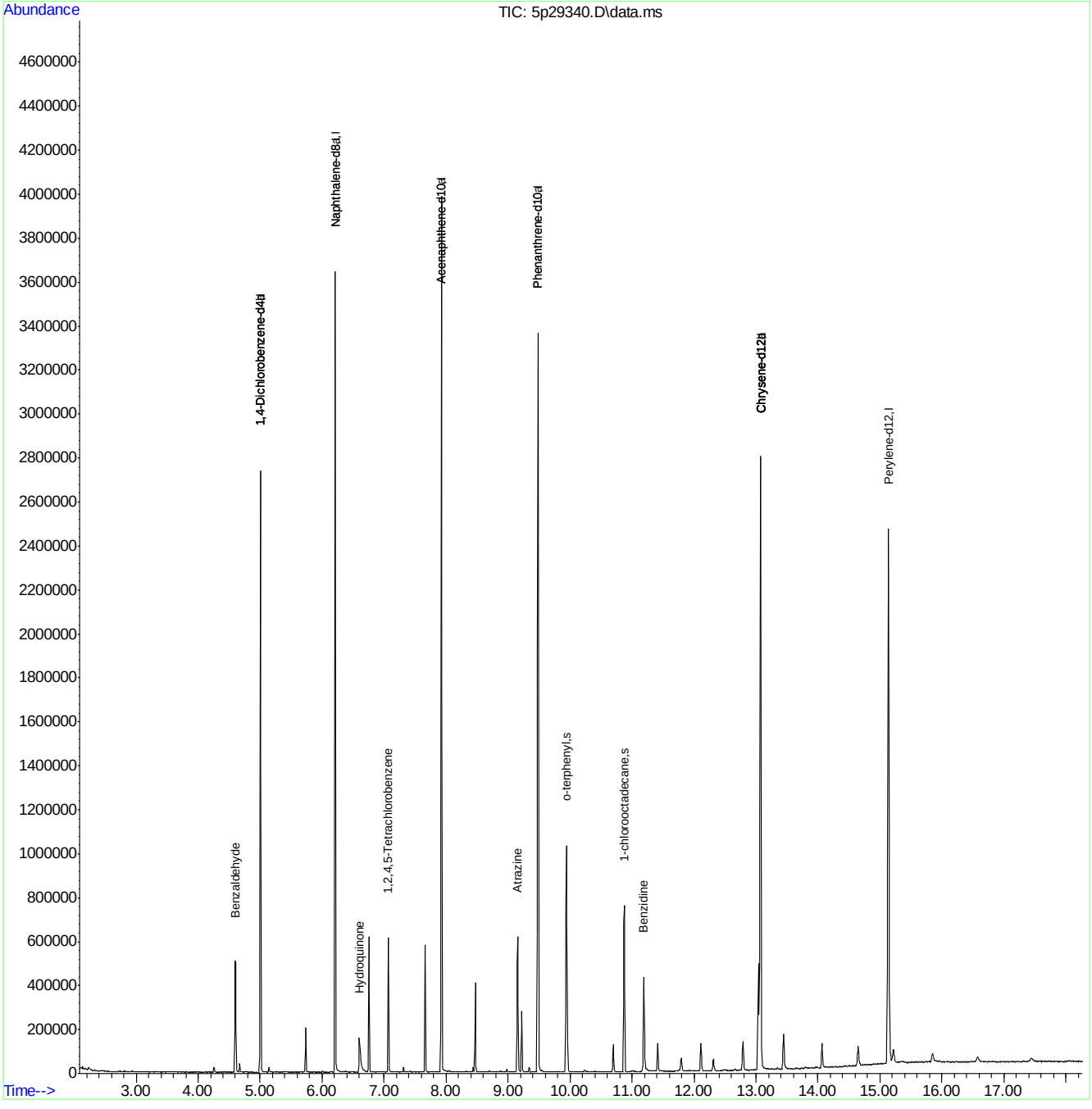
7

SGS ACCUTEST JC24133

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E5P1497\
Data File : 5p29340.D
Acq On : 1 Jul 2016 6:46 pm
Operator : ashleyn
Sample : ic1497-10
Misc : op94797,e5p1497
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jul 03 14:38:12 2016
Quant Method : C:\MSDCHEM\1\METHODS\M5P1496.M
Quant Title : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
QLast Update : Sun Jul 03 14:33:00 2016
Response via : Initial Calibration



M5P1496.M Sun Jul 03 14:38:17 2016 RPT1 Page: 2

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E5P1497\
Data File : 5p29341.D
Acq On : 1 Jul 2016 7:11 pm
Operator : ashleyn
Sample : ic1497-5
Misc : op94797,e5p1497
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jul 03 14:39:08 2016
Quant Method : C:\MSDCHEM\1\METHODS\M5P1496.M
Quant Title : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
QLast Update : Sun Jul 03 14:33:00 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	5.004	152	421366	40.00	ppm	0.00
24) Naphthalene-d8	6.212	136	1581446	40.00	ppm	0.00
47) Acenaphthene-d10	7.927	164	862168	40.00	ppm	0.00
69) Phenanthrene-d10	9.481	188	1351445	40.00	ppm	0.00
83) Chrysene-d12	13.071	240	1289247	40.00	ppm	0.00
91) Perylene-d12	15.139	264	1205183	40.00	ppm	0.00
101) 1,4-Dichlorobenzene-d4a	5.004	152	421366	40.00	ppm	0.00
103) Acenaphthene-d10a	7.927	164	862168	40.00	ppm	0.00
105) Chrysene-d12a	13.071	240	1289247	40.00	ppm	0.00
108) Phenanthrene-d10a	9.481	188	1351445	40.00	ppm	0.00
111) Naphthalene-d8a	6.212	136	1581446	40.00	ppm	0.00
113) Chrysene-d12b	13.071	240	1289247	40.00	ppm	0.00
115) 1,4-Dichlorobenzene-d4b	5.004	152	421366	40.00	ppm	0.00
117) Chrysene-d12c	13.071	240	1289247	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	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	0d	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
107) 1-chlorooctadecane	10.870	57	57571	6.13	ppm	-0.01
Spiked Amount 50.000			Recovery	=	12.26%	
109) o-terphenyl	9.941	230	110495	6.33	ppm	0.00
Spiked Amount 50.000			Recovery	=	12.66%	
Target Compounds						Qvalue
102) Benzaldehyde	4.604	105	59884	13.28	ppm	96
104) 1,2,4,5-Tetrachloroben...	7.066	216	58773	5.53	ppm	97
106) Benzidine	11.191	184	81766	5.02	ppm	97
110) Atrazine	9.155	215	19281	5.70	ppm	85
112) Hydroquinone	6.612	110	63263	4.74	ppm	99

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

7.6.44

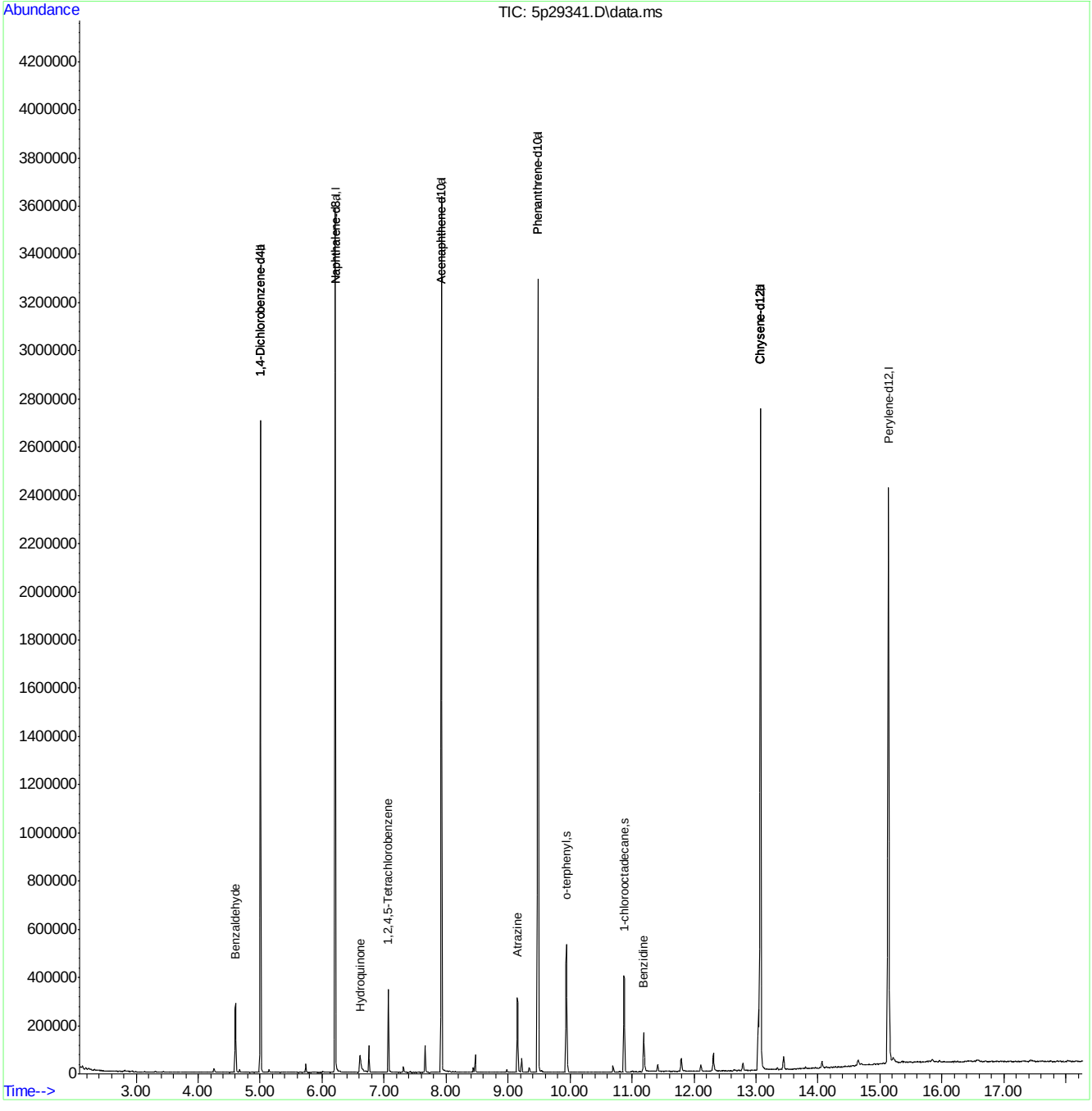
7

SGS ACCUTEST JC24133

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E5P1497\
Data File : 5p29341.D
Acq On : 1 Jul 2016 7:11 pm
Operator : ashleyn
Sample : ic1497-5
Misc : op94797,e5p1497
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jul 03 14:39:08 2016
Quant Method : C:\MSDCHEM\1\METHODS\M5P1496.M
Quant Title : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
QLast Update : Sun Jul 03 14:33:00 2016
Response via : Initial Calibration



SGS ACCUTEST JC24133

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E5P1497\
Data File : 5p29342.D
Acq On : 1 Jul 2016 7:36 pm
Operator : ashleyn
Sample : ic1497-2
Misc : op94797,e5p1497
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jul 03 14:39:55 2016
Quant Method : C:\MSDCHEM\1\METHODS\M5P1496.M
Quant Title : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
QLast Update : Sun Jul 03 14:33:00 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	5.004	152	379099	40.00	ppm	0.00
24) Naphthalene-d8	6.212	136	1430401	40.00	ppm	0.00
47) Acenaphthene-d10	7.926	164	783528	40.00	ppm	0.00
69) Phenanthrene-d10	9.481	188	1230245	40.00	ppm	0.00
83) Chrysene-d12	13.071	240	1189424	40.00	ppm	0.00
91) Perylene-d12	15.138	264	1089333	40.00	ppm	0.00
101) 1,4-Dichlorobenzene-d4a	5.004	152	379099	40.00	ppm	0.00
103) Acenaphthene-d10a	7.926	164	783528	40.00	ppm	0.00
105) Chrysene-d12a	13.071	240	1189424	40.00	ppm	0.00
108) Phenanthrene-d10a	9.481	188	1230245	40.00	ppm	0.00
111) Naphthalene-d8a	6.212	136	1430401	40.00	ppm	0.00
113) Chrysene-d12b	13.071	240	1189424	40.00	ppm	0.00
115) 1,4-Dichlorobenzene-d4b	5.004	152	379261	40.00	ppm	0.00
117) Chrysene-d12c	13.071	240	1189424	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	0d	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
107) 1-chlorooctadecane	10.870	57	19874	2.29	ppm	-0.01
Spiked Amount 50.000			Recovery	=	4.58%	
109) o-terphenyl	9.940	230	38175	2.40	ppm	0.00
Spiked Amount 50.000			Recovery	=	4.80%	
Target Compounds						Qvalue
102) Benzaldehyde	4.604	105	22268	5.49	ppm	97
104) 1,2,4,5-Tetrachloroben...	7.072	216	21516	2.23	ppm	94
106) Benzidine	11.191	184	21319	1.42	ppm	95
110) Atrazine	9.155	215	7176	2.33	ppm	87
112) Hydroquinone	6.628	110	18690	1.55	ppm	96

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

7.6.45

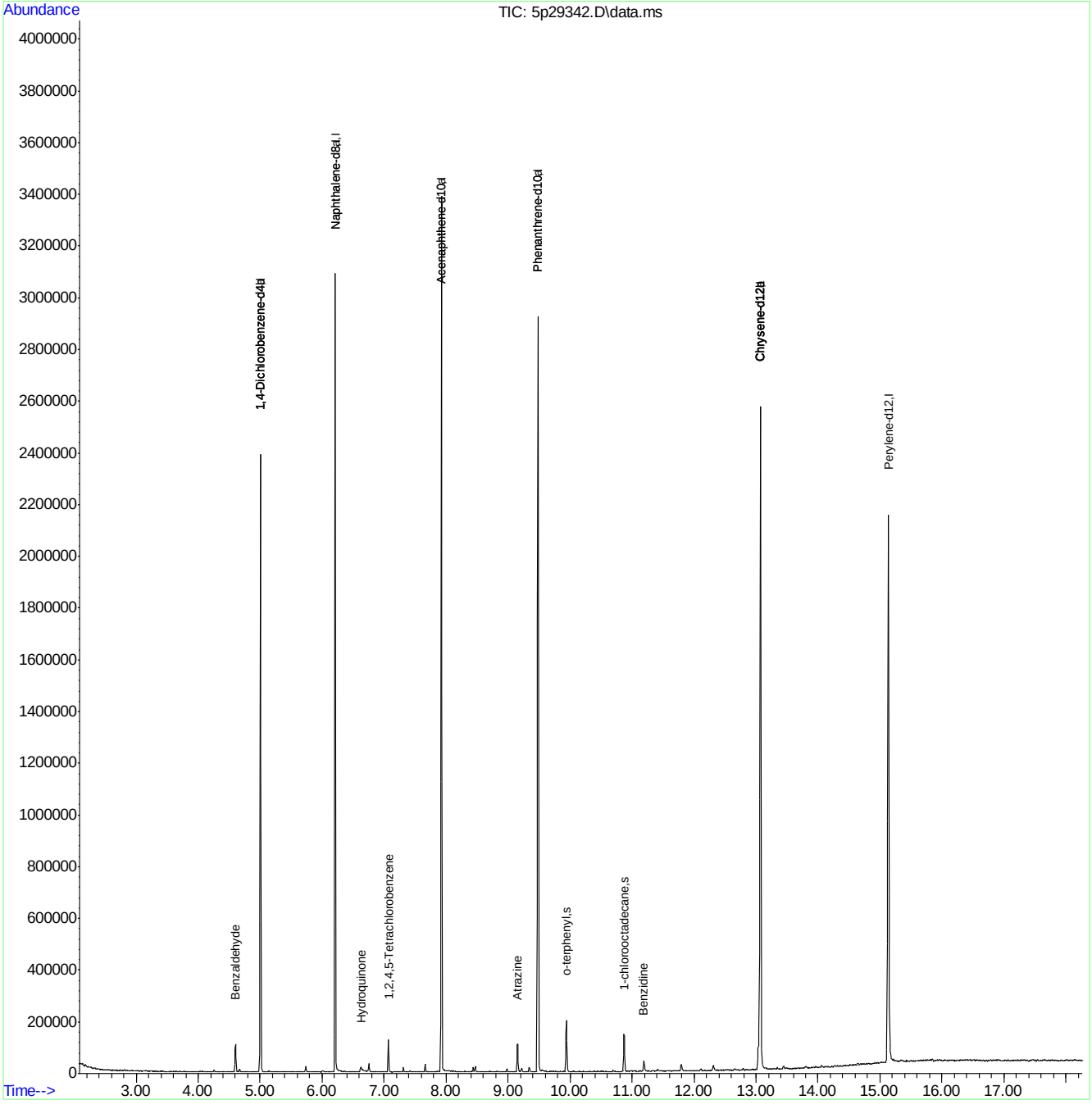
7

SGS ACCUTEST JC24133

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E5P1497\
Data File : 5p29342.D
Acq On : 1 Jul 2016 7:36 pm
Operator : ashleyn
Sample : ic1497-2
Misc : op94797,e5p1497
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jul 03 14:39:55 2016
Quant Method : C:\MSDCHEM\1\METHODS\M5P1496.M
Quant Title : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
QLast Update : Sun Jul 03 14:33:00 2016
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E5P1497\
Data File : 5p29343.D
Acq On : 1 Jul 2016 8:01 pm
Operator : ashleyn
Sample : ic1497-1
Misc : op94797,e5p1497
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jul 03 14:40:44 2016
Quant Method : C:\MSDCHEM\1\METHODS\M5P1496.M
Quant Title : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
QLast Update : Sun Jul 03 14:33:00 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	5.004	152	365948	40.00	ppm	0.00
24) Naphthalene-d8	6.212	136	1371699	40.00	ppm	0.00
47) Acenaphthene-d10	7.926	164	754494	40.00	ppm	0.00
69) Phenanthrene-d10	9.481	188	1178662	40.00	ppm	0.00
83) Chrysene-d12	13.071	240	1122094	40.00	ppm	0.00
91) Perylene-d12	15.138	264	1032649	40.00	ppm	0.00
101) 1,4-Dichlorobenzene-d4a	5.004	152	365948	40.00	ppm	0.00
103) Acenaphthene-d10a	7.926	164	754494	40.00	ppm	0.00
105) Chrysene-d12a	13.071	240	1122094	40.00	ppm	0.00
108) Phenanthrene-d10a	9.481	188	1178662	40.00	ppm	0.00
111) Naphthalene-d8a	6.212	136	1371699	40.00	ppm	0.00
113) Chrysene-d12b	13.071	240	1122094	40.00	ppm	0.00
115) 1,4-Dichlorobenzene-d4b	5.004	152	365948	40.00	ppm	0.00
117) Chrysene-d12c	13.071	240	1122094	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	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	0d	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
107) 1-chlorooctadecane	10.875	57	9956	1.22	ppm	0.00
Spiked Amount 50.000			Recovery	=	2.44%	
109) o-terphenyl	9.940	230	19046	1.25	ppm	0.00
Spiked Amount 50.000			Recovery	=	2.50%	
Target Compounds						Qvalue
102) Benzaldehyde	4.604	105	10189	2.60	ppm	85
104) 1,2,4,5-Tetrachloroben...	7.066	216	10482	1.13	ppm	94
106) Benzidine	11.191	184	10210	0.72	ppm	96
110) Atrazine	9.155	215	3341	1.13	ppm	85
112) Hydroquinone	6.655	110	8422	0.73	ppm	89

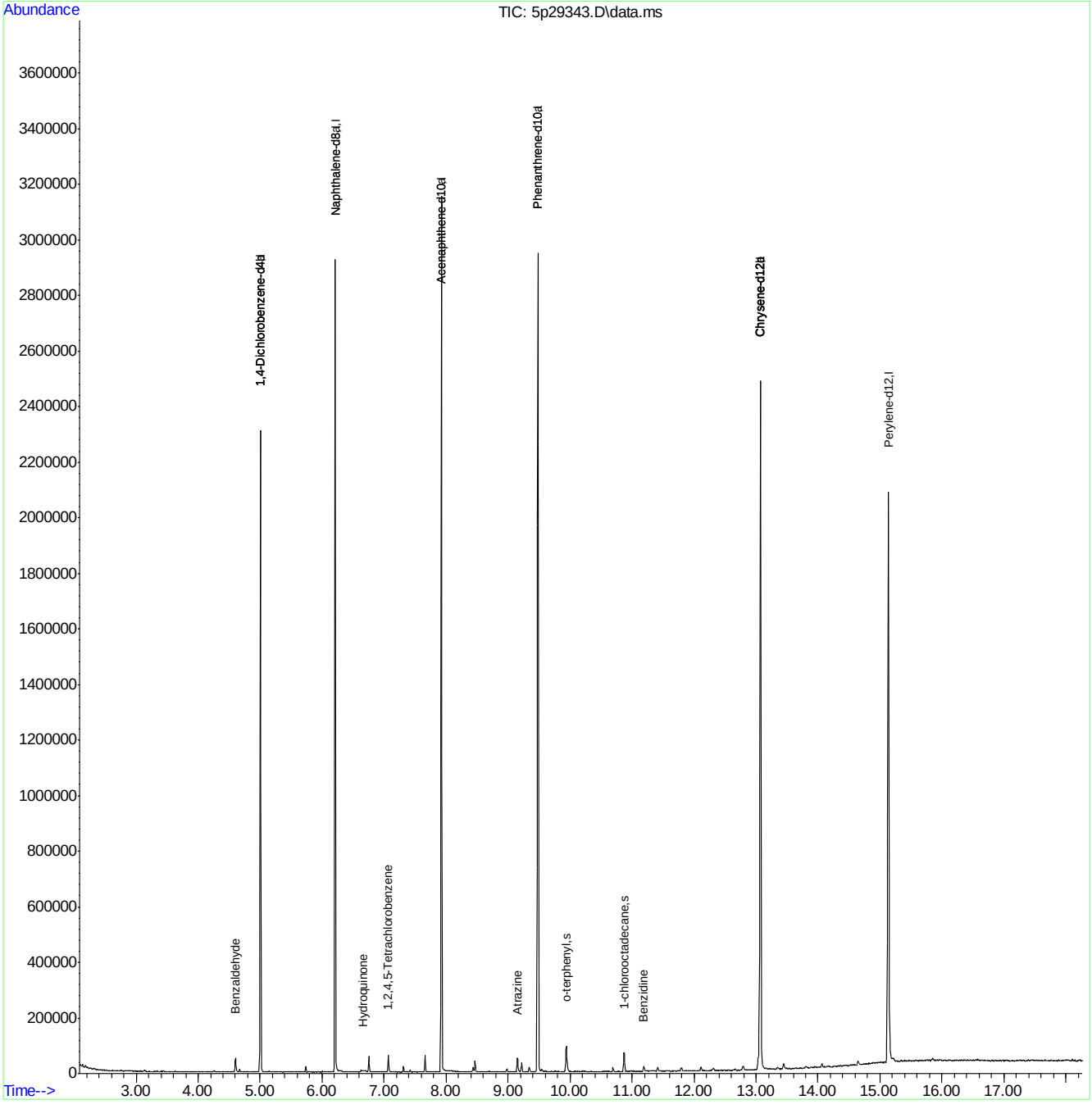
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC24133

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E5P1497\
Data File : 5p29343.D
Acq On : 1 Jul 2016 8:01 pm
Operator : ashleyn
Sample : ic1497-1
Misc : op94797,e5p1497
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jul 03 14:40:44 2016
Quant Method : C:\MSDCHEM\1\METHODS\M5P1496.M
Quant Title : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
QLast Update : Sun Jul 03 14:33:00 2016
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E5P1497\
Data File : 5p29344.D
Acq On : 1 Jul 2016 8:27 pm
Operator : ashleyn
Sample : icv1496-50
Misc : op94797,e5p1497
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jul 03 14:50:56 2016
Quant Method : C:\MSDCHEM\1\METHODS\M5P1496.M
Quant Title : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
QLast Update : Sun Jul 03 14:48:44 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	5.004	152	351266	40.00	ppm	0.00
24) Naphthalene-d8	6.212	136	1297895	40.00	ppm	0.00
47) Acenaphthene-d10	7.927	164	706696	40.00	ppm	0.00
69) Phenanthrene-d10	9.481	188	1070087	40.00	ppm	0.00
83) Chrysene-d12	13.071	240	943472	40.00	ppm	0.00
91) Perylene-d12	15.133	264	807251	40.00	ppm	0.00
101) 1,4-Dichlorobenzene-d4a	5.004	152	351266	40.00	ppm	0.00
103) Acenaphthene-d10a	7.927	164	706696	40.00	ppm	0.00
105) Chrysene-d12a	13.071	240	943462	40.00	ppm	0.00
108) Phenanthrene-d10a	9.481	188	1070087	40.00	ppm	0.00
111) Naphthalene-d8a	6.212	136	1297895	40.00	ppm	0.00
113) Chrysene-d12b	13.071	240	943462	40.00	ppm	0.00
115) 1,4-Dichlorobenzene-d4b	5.004	152	351266	40.00	ppm	0.00
117) Chrysene-d12c	13.071	240	943462	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	0d	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%	
109) o-terphenyl	0.000	230	0d	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
Target Compounds						Qvalue
9) Phenol	4.673	94	659975	42.29	ppm	99
12) 2-Chlorophenol	4.812	128	567461	45.36	ppm	98
19) 2-Methylphenol	5.234	108	495917	48.39	ppm	99
21) 3&4-Methylphenol	5.373	108	521094	48.05	ppm	98
29) 2-Nitrophenol	5.843	139	303731	49.71	ppm	98
30) 2,4-Dimethylphenol	5.880	107	507718	49.19	ppm	97
33) 2,4-Dichlorophenol	6.073	162	440186	48.75	ppm	99
34) 2,6-Dichlorophenol	6.292	162	426377	48.05	ppm	98
43) 4-Chloro-3-methylphenol	6.751	107	420497	47.34	ppm	98
49) 2,4,6-Trichlorophenol	7.179	196	277238	52.65	ppm	98
50) 2,4,5-Trichlorophenol	7.216	196	279679	51.32	ppm	99
60) 2,4-Dinitrophenol	7.980	184	66065	38.68	ppm #	89
61) 4-Nitrophenol	8.044	109	103743	50.66	ppm	87
64) 2,3,4,6-Tetrachlorophenol	8.252	232	206493	50.57	ppm	98
70) 4,6-Dinitro-2-methylph...	8.514	198	133514	46.17	ppm	91

SGS ACCUTEST JC24133

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E5P1497\
Data File : 5p29344.D
Acq On : 1 Jul 2016 8:27 pm
Operator : ashleyn
Sample : icv1496-50
Misc : op94797,e5p1497
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jul 03 14:50:56 2016
Quant Method : C:\MSDCHEM\1\METHODS\M5P1496.M
Quant Title : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
QLast Update : Sun Jul 03 14:48:44 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
76) Pentachlorophenol	9.273	266	111255	46.48 ppm	99

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

7.6.47

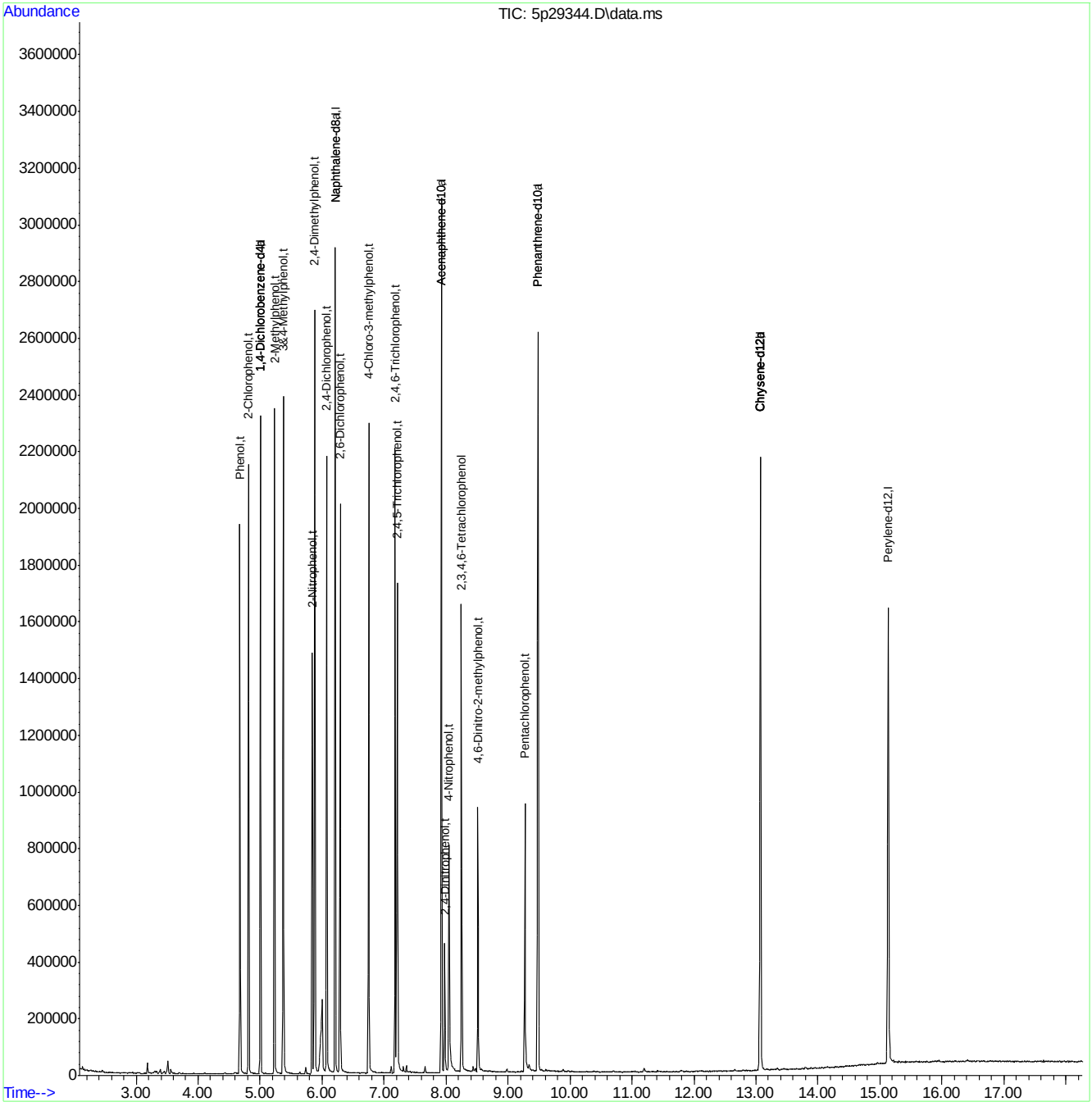
7

SGS ACCUTEST JC24133

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E5P1497\
Data File : 5p29344.D
Acq On : 1 Jul 2016 8:27 pm
Operator : ashleyn
Sample : icv1496-50
Misc : op94797,e5p1497
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jul 03 14:50:56 2016
Quant Method : C:\MSDCHEM\1\METHODS\M5P1496.M
Quant Title : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
QLast Update : Sun Jul 03 14:48:44 2016
Response via : Initial Calibration



M5P1496.M Sun Jul 03 16:33:58 2016 RPT1 Page: 3

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E5P1497\
Data File : 5p29345.D
Acq On : 1 Jul 2016 8:52 pm
Operator : ashleyn
Sample : icv1496-50
Misc : op94797,e5p1497
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jul 03 14:53:20 2016
Quant Method : C:\MSDCHEM\1\METHODS\M5P1496.M
Quant Title : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
QLast Update : Sun Jul 03 14:48:44 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1,4-Dichlorobenzene-d4	5.004	152	310268	40.00 ppm	0.00
24) Naphthalene-d8	6.212	136	1256198	40.00 ppm	0.00
47) Acenaphthene-d10	7.926	164	693773	40.00 ppm	0.00
69) Phenanthrene-d10	9.481	188	1047482	40.00 ppm	0.00
83) Chrysene-d12	13.071	240	817438	40.00 ppm	0.00
91) Perylene-d12	15.133	264	609920	40.00 ppm	0.00
101) 1,4-Dichlorobenzene-d4a	5.004	152	310268	40.00 ppm	0.00
103) Acenaphthene-d10a	7.926	164	693773	40.00 ppm	0.00
105) Chrysene-d12a	13.071	240	817438	40.00 ppm	0.00
108) Phenanthrene-d10a	9.481	188	1047482	40.00 ppm	0.00
111) Naphthalene-d8a	6.212	136	1256198	40.00 ppm	0.00
113) Chrysene-d12b	13.071	240	817438	40.00 ppm	0.00
115) 1,4-Dichlorobenzene-d4b	5.004	152	310268	40.00 ppm	0.00
117) Chrysene-d12c	13.071	240	817438	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	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	0d	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%	
109) o-terphenyl	0.000	230	0	0.00 ppm	
Spiked Amount 50.000			Recovery	= 0.00%	
Target Compounds					Qvalue
3) Pyridine	2.825	79	505379	50.15 ppm	99
10) Aniline	4.705	93	805156	54.17 ppm	67
16) Benzyl alcohol	5.132	108	353460	55.02 ppm	100
39) 4-Chloroaniline	6.281	127	670324	54.51 ppm	98
44) 2-Methylnaphthalene	6.901	141	873407	52.72 ppm	99
54) 2-Nitroaniline	7.478	65	236787	55.17 ppm	96
58) 3-Nitroaniline	7.878	138	275199	56.78 ppm	98
62) Dibenzofuran	8.124	168	1340389	59.76 ppm	100
68) 4-Nitroaniline	8.487	138	258879	53.01 ppm	98
79) Carbazole	9.759	167	1283598	54.52 ppm	99

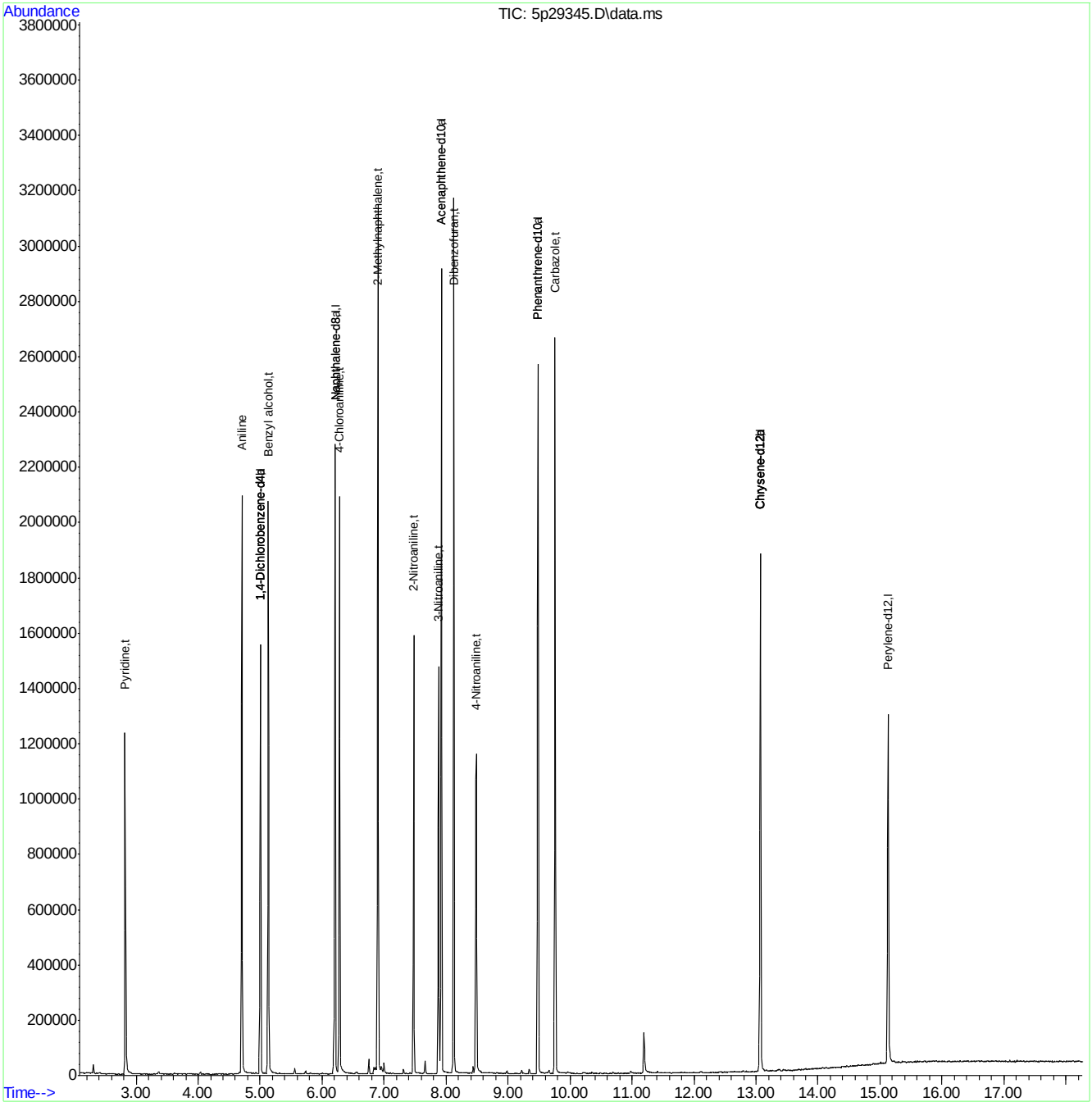
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC24133

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E5P1497\
Data File : 5p29345.D
Acq On : 1 Jul 2016 8:52 pm
Operator : ashleyn
Sample : icv1496-50
Misc : op94797,e5p1497
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jul 03 14:53:20 2016
Quant Method : C:\MSDCHEM\1\METHODS\M5P1496.M
Quant Title : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
QLast Update : Sun Jul 03 14:48:44 2016
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E5P1497\
Data File : 5p29346.D
Acq On : 1 Jul 2016 9:18 pm
Operator : ashleyn
Sample : icv1496-50
Misc : op94797,e5p1497
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jul 03 14:54:33 2016
Quant Method : C:\MSDCHEM\1\METHODS\M5P1496.M
Quant Title : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
QLast Update : Sun Jul 03 14:48:44 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	5.004	152	354974	40.00	ppm	0.00
24) Naphthalene-d8	6.212	136	1310275	40.00	ppm	0.00
47) Acenaphthene-d10	7.926	164	701547	40.00	ppm	0.00
69) Phenanthrene-d10	9.481	188	999597	40.00	ppm	0.00
83) Chrysene-d12	13.071	240	839831	40.00	ppm	0.00
91) Perylene-d12	15.133	264	772332	40.00	ppm	0.00
101) 1,4-Dichlorobenzene-d4a	5.004	152	354974	40.00	ppm	0.00
103) Acenaphthene-d10a	7.926	164	701547	40.00	ppm	0.00
105) Chrysene-d12a	13.071	240	839831	40.00	ppm	0.00
108) Phenanthrene-d10a	9.481	188	999597	40.00	ppm	0.00
111) Naphthalene-d8a	6.212	136	1310275	40.00	ppm	0.00
113) Chrysene-d12b	13.071	240	839831	40.00	ppm	0.00
115) 1,4-Dichlorobenzene-d4b	5.004	152	354974	40.00	ppm	0.00
117) Chrysene-d12c	13.071	240	839803	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	3.840	112	574101	53.13	ppm	0.00
Spiked Amount 50.000			Recovery	=	106.26%	
8) Phenol-d5	4.662	99	671804	51.20	ppm	0.00
Spiked Amount 50.000			Recovery	=	102.40%	
25) Nitrobenzene-d5	5.517	82	529664	55.55	ppm	0.00
Spiked Amount 50.000			Recovery	=	111.10%	
51) 2-Fluorobiphenyl	7.259	172	1157753	61.67	ppm	0.00
Spiked Amount 50.000			Recovery	=	123.34%	
73) 2,4,6-Tribromophenol	8.717	330	122949	57.83	ppm	0.00
Spiked Amount 50.000			Recovery	=	115.66%	
85) Terphenyl-d14	11.548	244	896707	56.04	ppm	0.00
Spiked Amount 50.000			Recovery	=	112.08%	
107) 1-chlorooctadecane	0.000	57	0d	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
109) 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

7.6.49

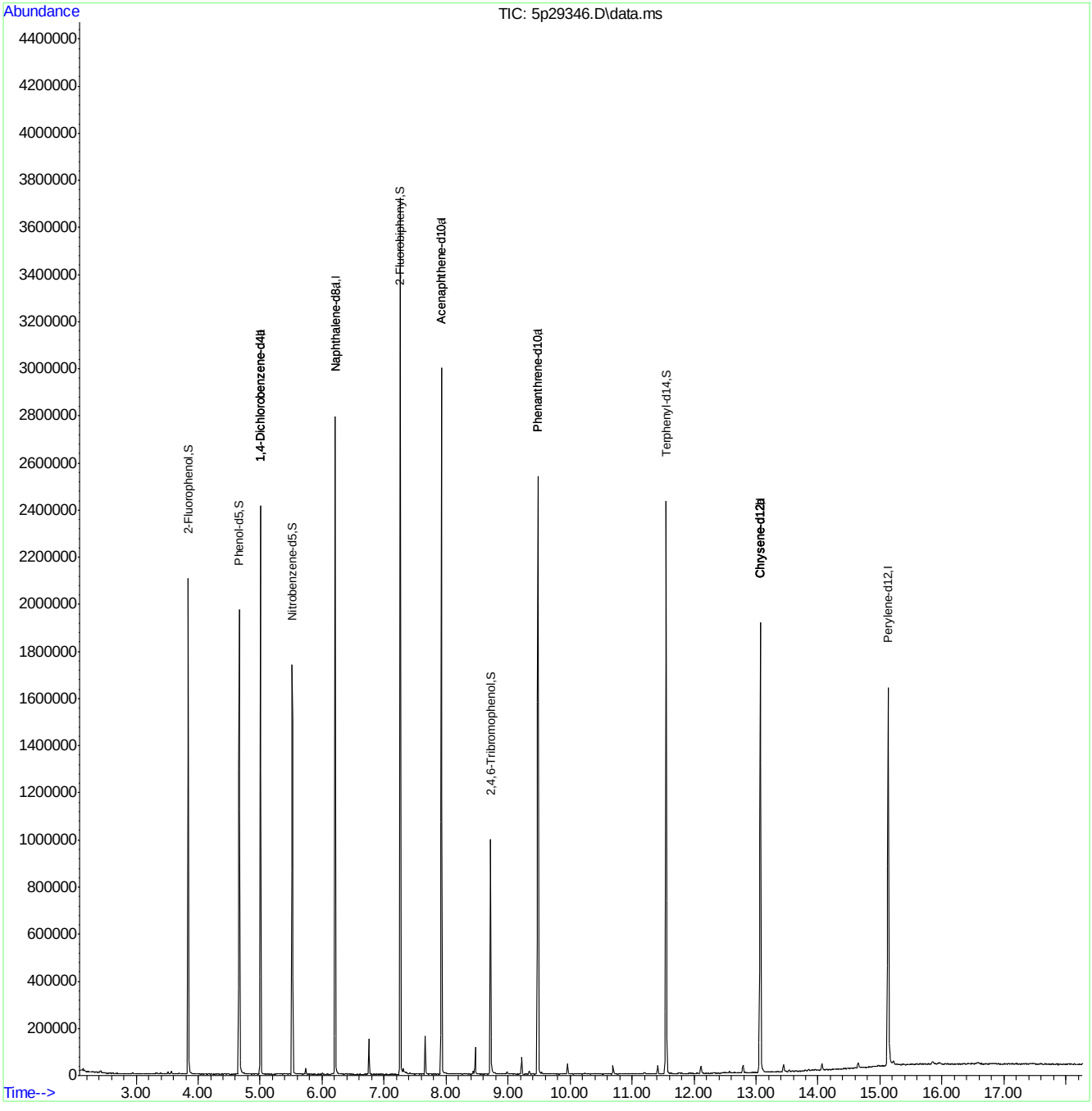
7

SGS ACCUTEST JC24133

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E5P1497\
Data File : 5p29346.D
Acq On : 1 Jul 2016 9:18 pm
Operator : ashleyn
Sample : icv1496-50
Misc : op94797,e5p1497
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jul 03 14:54:33 2016
Quant Method : C:\MSDCHEM\1\METHODS\M5P1496.M
Quant Title : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
QLast Update : Sun Jul 03 14:48:44 2016
Response via : Initial Calibration



M5P1496.M Sun Jul 03 14:54:53 2016 RPT1 Page: 2

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E5P1497\
Data File : 5p29347.D
Acq On : 1 Jul 2016 9:43 pm
Operator : ashleyn
Sample : icv1496-50
Misc : op94797,e5p1497
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jul 06 12:26:51 2016
Quant Method : C:\MSDCHEM\1\METHODS\M5P1496.M
Quant Title : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
QLast Update : Sun Jul 03 14:48:44 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	5.004	152	337388	40.00	ppm	0.00
24) Naphthalene-d8	6.212	136	1225960	40.00	ppm	0.00
47) Acenaphthene-d10	7.926	164	648384	40.00	ppm	0.00
69) Phenanthrene-d10	9.481	188	937225	40.00	ppm	0.00
83) Chrysene-d12	13.076	240	813266	40.00	ppm	0.00
91) Perylene-d12	15.133	264	771825	40.00	ppm	0.00
101) 1,4-Dichlorobenzene-d4a	5.004	152	337388	40.00	ppm	0.00
103) Acenaphthene-d10a	7.926	164	648384	40.00	ppm	0.00
105) Chrysene-d12a	13.076	240	813229	40.00	ppm	0.00
108) Phenanthrene-d10a	9.481	188	937225	40.00	ppm	0.00
111) Naphthalene-d8a	6.212	136	1225960	40.00	ppm	0.00
113) Chrysene-d12b	13.076	240	813229	40.00	ppm	0.00
115) 1,4-Dichlorobenzene-d4b	5.004	152	337388	40.00	ppm	0.00
117) Chrysene-d12c	13.076	240	813229	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	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	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
85) Terphenyl-d14	0.000	244	0d	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%			
109) o-terphenyl	0.000	230	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
Target Compounds						Qvalue
4) N-Nitrosodimethylamine	2.686	74	293755	47.63	ppm	92
11) bis(2-Chloroethyl)ether	4.753	93	525928	53.97	ppm	99
14) 1,3-Dichlorobenzene	4.956	146	674317	51.29	ppm	100
15) 1,4-Dichlorobenzene	5.020	146	650697	50.68	ppm	96
17) 1,2-Dichlorobenzene	5.164	146	629988	51.89	ppm	99
20) 2,2'-oxybis(1-Chloropr...	5.250	45	622004	48.18	ppm	99
22) n-Nitroso-di-n-propyla...	5.373	70	319305	48.27	ppm	98
23) Hexachloroethane	5.485	201	201948	51.99	ppm	95
26) Nitrobenzene	5.538	77	486108	52.91	ppm	99
28) Isophorone	5.763	82	902772	55.42	ppm	98
32) bis(2-Chloroethoxy)met...	5.966	93	583991	56.01	ppm	97
36) 1,2,4-Trichlorobenzene	6.158	180	489589	56.43	ppm	99
38) Naphthalene	6.233	128	1556604	54.01	ppm	99
42) Hexachlorobutadiene	6.356	225	253819	57.28	ppm	98
48) Hexachlorocyclopentadiene	7.066	237	200250	51.82	ppm	97

SGS ACCUTEST JC24133

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E5P1497\
Data File : 5p29347.D
Acq On : 1 Jul 2016 9:43 pm
Operator : ashleyn
Sample : icv1496-50
Misc : op94797,e5p1497
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jul 06 12:26:51 2016
Quant Method : C:\MSDCHEM\1\METHODS\M5P1496.M
Quant Title : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
QLast Update : Sun Jul 03 14:48:44 2016
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
52)	2-Chloronaphthalene	7.376	162	941588	60.29	ppm	99
55)	Dimethylphthalate	7.654	163	964611	59.34	ppm	99
56)	Acenaphthylene	7.788	152	1456741	58.78	ppm	99
57)	2,6-Dinitrotoluene	7.713	165	215458	59.62	ppm	97
59)	Acenaphthene	7.958	153	899766	58.95	ppm	99
63)	2,4-Dinitrotoluene	8.108	165	267908	53.85	ppm	97
65)	Diethylphthalate	8.348	149	933561	57.52	ppm	99
66)	Fluorene	8.471	166	939416	56.12	ppm	99
67)	4-Chlorophenyl-phenyle...	8.466	204	421765	58.73	ppm	100
71)	n-Nitrosodiphenylamine	8.584	169	657979	64.39	ppm	97
72)	1,2-Diphenylhydrazine	8.626	77	826664	62.50	ppm	98
75)	Hexachlorobenzene	9.059	284	273766	61.57	ppm	94
77)	Phenanthrene	9.513	178	1245852	59.33	ppm	100
78)	Anthracene	9.572	178	1241006	57.33	ppm	100
80)	Di-n-butylphthalate	10.197	149	1533056	60.20	ppm	100
81)	Fluoranthene	11.009	202	1315822	58.93	ppm	98
84)	Pyrene	11.319	202	1343576	56.13	ppm	99
86)	Butylbenzylphthalate	12.280	149	638003	54.94	ppm	95
87)	Benzo[a]anthracene	13.060	228	1146223	51.97	ppm	99
89)	Chrysene	13.114	228	1111225	51.78	ppm	100
90)	bis(2-Ethylhexyl)phtha...	13.173	149	851617	54.34	ppm	99
92)	Di-n-octylphthalate	14.129	149	1484722	52.95	ppm	99
93)	Benzo[b]fluoranthene	14.610	252	1137978	49.89	ppm	94
94)	Benzo[k]fluoranthene	14.652	252	1109369	50.92	ppm	99
95)	Benzo[a]pyrene	15.053	252	1058653	51.32	ppm	98
96)	Indeno[1,2,3-cd]pyrene	16.837	276	1049229	53.24	ppm	93
98)	Dibenz[a,h]anthracene	16.875	278	1019240	49.29	ppm	98
100)	Benzo[g,h,i]perylene	17.334	276	1019100	49.15	ppm	100

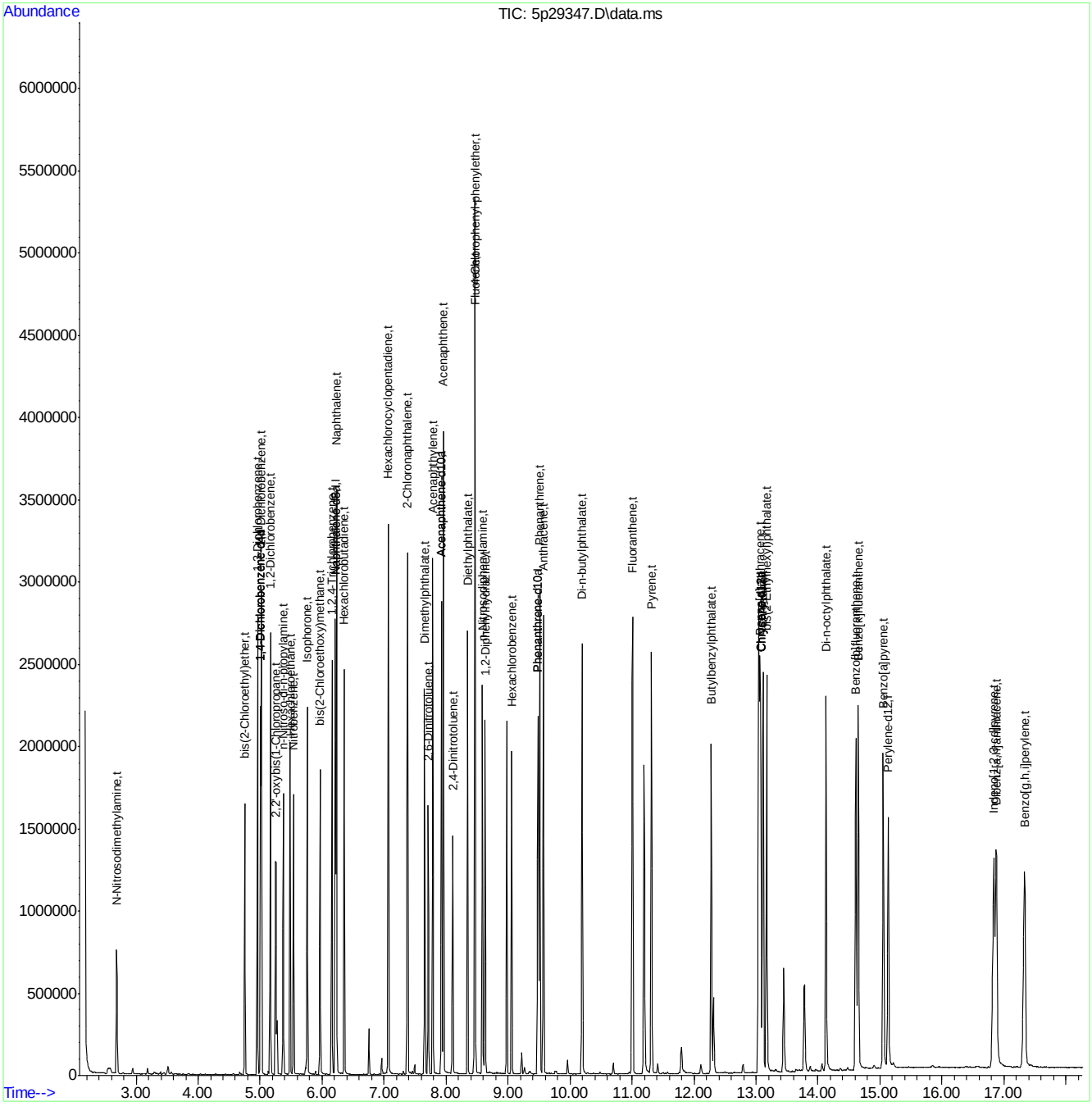
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC24133

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E5P1497\
Data File : 5p29347.D
Acq On : 1 Jul 2016 9:43 pm
Operator : ashleyn
Sample : icv1496-50
Misc : op94797,e5p1497
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jul 06 12:26:51 2016
Quant Method : C:\MSDCHEM\1\METHODS\M5P1496.M
Quant Title : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
QLast Update : Sun Jul 03 14:48:44 2016
Response via : Initial Calibration



SGS ACCUTEST JC24133

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E5P1497\
Data File : 5p29347a.D
Acq On : 1 Jul 2016 9:43 pm
Operator : ashleyn
Sample : icv1497-50
Misc : op94797,e5p1497
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jul 03 16:00:47 2016
Quant Method : C:\MSDCHEM\1\METHODS\M5P1496.M
Quant Title : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
QLast Update : Sun Jul 03 14:48:44 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	5.004	152	337388	40.00	ppm	0.00
24) Naphthalene-d8	6.212	136	1225960	40.00	ppm	0.00
47) Acenaphthene-d10	7.926	164	648384	40.00	ppm	0.00
69) Phenanthrene-d10	9.481	188	937225	40.00	ppm	0.00
83) Chrysene-d12	13.076	240	813266	40.00	ppm	0.00
91) Perylene-d12	15.133	264	771825	40.00	ppm	0.00
101) 1,4-Dichlorobenzene-d4a	5.004	152	337388	40.00	ppm	0.00
103) Acenaphthene-d10a	7.926	164	648384	40.00	ppm	0.00
105) Chrysene-d12a	13.076	240	813229	40.00	ppm	0.00
108) Phenanthrene-d10a	9.481	188	937225	40.00	ppm	0.00
111) Naphthalene-d8a	6.212	136	1225960	40.00	ppm	0.00
113) Chrysene-d12b	13.076	240	813229	40.00	ppm	0.00
115) 1,4-Dichlorobenzene-d4b	5.004	152	337388	40.00	ppm	0.00
117) Chrysene-d12c	13.076	240	813229	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	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	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
85) Terphenyl-d14	0.000	244	0d	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%			
109) 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...	7.072	216	427605	52.62	ppm	98

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

7.6.51

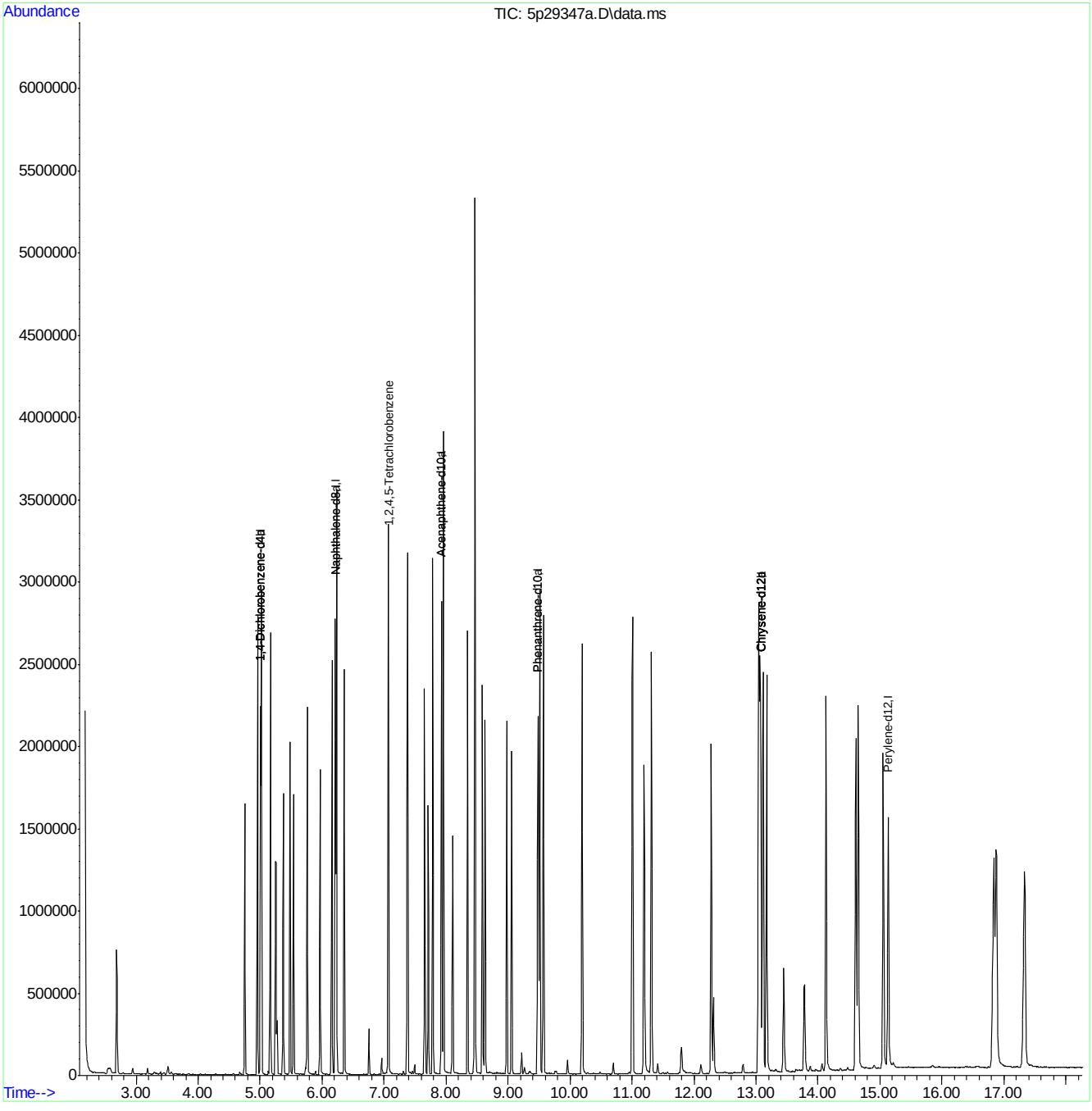
7

SGS ACCUTEST JC24133

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E5P1497\
Data File : 5p29347a.D
Acq On : 1 Jul 2016 9:43 pm
Operator : ashleyn
Sample : icv1497-50
Misc : op94797,e5p1497
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jul 03 16:00:47 2016
Quant Method : C:\MSDCHEM\1\METHODS\M5P1496.M
Quant Title : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
QLast Update : Sun Jul 03 14:48:44 2016
Response via : Initial Calibration



M5P1496.M Sun Jul 03 16:00:51 2016 RPT1 Page: 2

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E5P1497\
Data File : 5p29348.D
Acq On : 1 Jul 2016 10:09 pm
Operator : ashleyn
Sample : icv1496-50
Misc : op94797,e5p1497
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Jul 03 16:01:02 2016
Quant Method : C:\MSDCHEM\1\METHODS\M5P1496.M
Quant Title : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
QLast Update : Sun Jul 03 14:48:44 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	5.004	152	341107	40.00	ppm	0.00
24) Naphthalene-d8	6.212	136	1260750	40.00	ppm	0.00
47) Acenaphthene-d10	7.926	164	684295	40.00	ppm	0.00
69) Phenanthrene-d10	9.481	188	1003418	40.00	ppm	0.00
83) Chrysene-d12	13.071	240	890489	40.00	ppm	0.00
91) Perylene-d12	15.133	264	686753	40.00	ppm	0.00
101) 1,4-Dichlorobenzene-d4a	5.004	152	341107	40.00	ppm	0.00
103) Acenaphthene-d10a	7.926	164	684295	40.00	ppm	0.00
105) Chrysene-d12a	13.071	240	890582	40.00	ppm	0.00
108) Phenanthrene-d10a	9.481	188	1003418	40.00	ppm	0.00
111) Naphthalene-d8a	6.212	136	1260750	40.00	ppm	0.00
113) Chrysene-d12b	13.071	240	890582	40.00	ppm	0.00
115) 1,4-Dichlorobenzene-d4b	5.004	152	341107	40.00	ppm	0.00
117) Chrysene-d12c	13.071	240	890582	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%	
109) o-terphenyl	0.000	230	0d	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
Target Compounds						Qvalue
2) 1,4-Dioxane	2.440	88	232138	50.01	ppm	95
6) Indene	5.245	116	1129903	57.97	ppm	98
7) Cumene	4.288	105	1427694	52.85	ppm	99
13) Decane	4.855	43	548159	52.60	ppm	100
18) Acetophenone	5.373	105	811878	54.60	ppm	84
27) Quinoline	6.548	129	856811	41.01	ppm	100
40) 2,3-Dichloroaniline	7.178	161	425002	41.40	ppm	98
41) Caprolactam	6.602	55	201250	49.49	ppm	98
45) 1-Methylnaphthalene	7.002	141	998362	55.83	ppm	99
46) Dimethylnaphthalene	7.515	156	1002062	56.89	ppm	99
53) Biphenyl	7.360	154	1363253	61.15	ppm	100
82) Octadecane	9.363	57	648474	67.47	ppm	98
99) 7,12-Dimethylbenz(a)an...	14.610	256	591160	63.33	ppm	99

SGS ACCUTEST JC24133

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E5P1497\
Data File : 5p29348.D
Acq On : 1 Jul 2016 10:09 pm
Operator : ashleyn
Sample : icv1496-50
Misc : op94797,e5p1497
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Jul 03 16:01:02 2016
Quant Method : C:\MSDCHEM\1\METHODS\M5P1496.M
Quant Title : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
QLast Update : Sun Jul 03 14:48:44 2016
Response via : Initial Calibration

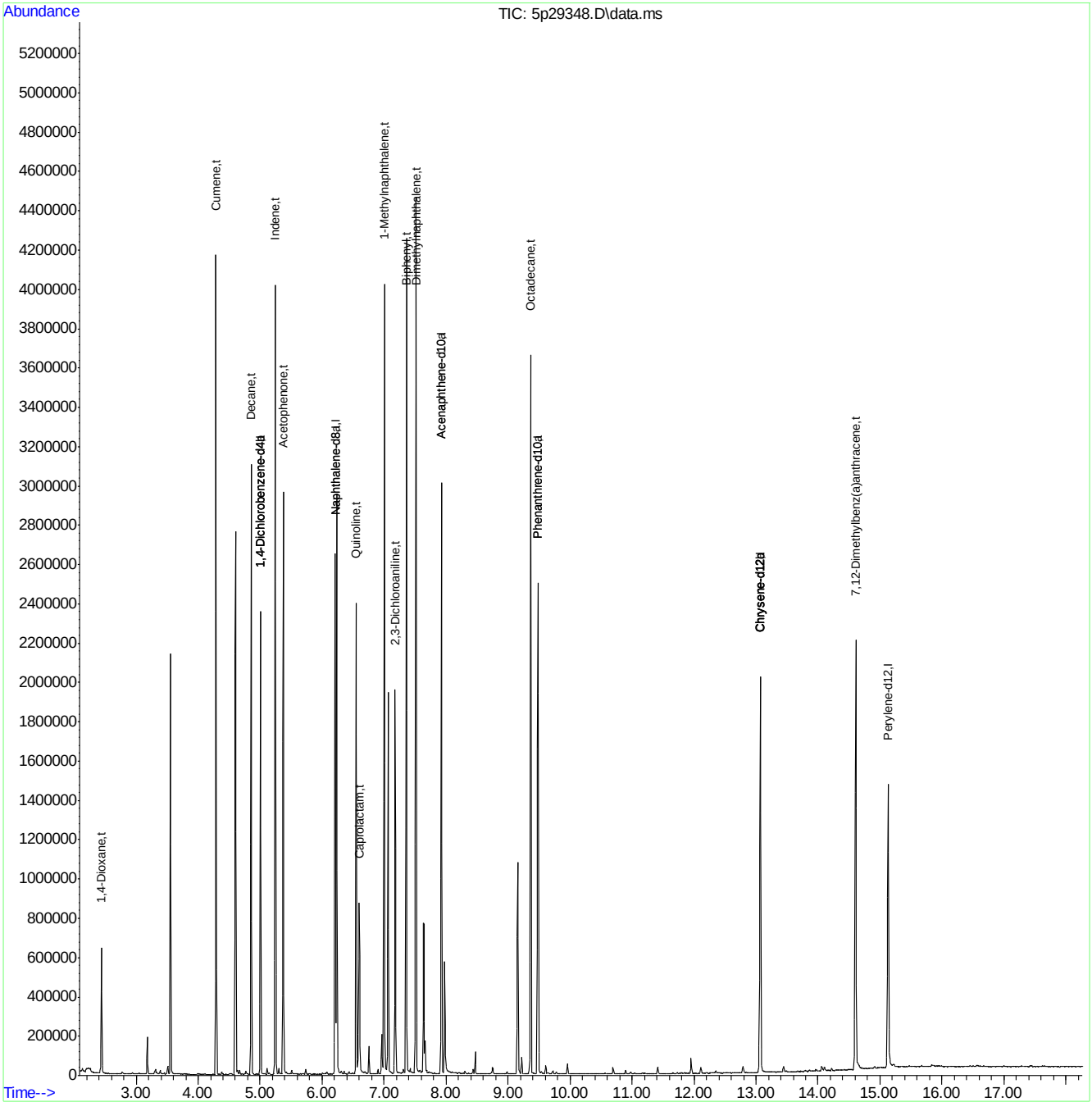
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E5P1497\
Data File : 5p29348.D
Acq On : 1 Jul 2016 10:09 pm
Operator : ashleyn
Sample : icv1496-50
Misc : op94797,e5p1497
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Jul 03 16:01:02 2016
Quant Method : C:\MSDCHEM\1\METHODS\M5P1496.M
Quant Title : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
QLast Update : Sun Jul 03 14:48:44 2016
Response via : Initial Calibration



SGS ACCUTEST JC24133

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E5P1497\
Data File : 5p29348a.D
Acq On : 1 Jul 2016 10:09 pm
Operator : ashleyn
Sample : icv1497-50
Misc : op94797,e5p1497
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Jul 03 16:01:30 2016
Quant Method : C:\MSDCHEM\1\METHODS\M5P1496.M
Quant Title : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
QLast Update : Sun Jul 03 14:48:44 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	5.004	152	341107	40.00	ppm	0.00
24) Naphthalene-d8	6.212	136	1260750	40.00	ppm	0.00
47) Acenaphthene-d10	7.926	164	684295	40.00	ppm	0.00
69) Phenanthrene-d10	9.481	188	1003418	40.00	ppm	0.00
83) Chrysene-d12	13.071	240	890489	40.00	ppm	0.00
91) Perylene-d12	15.133	264	686753	40.00	ppm	0.00
101) 1,4-Dichlorobenzene-d4a	5.004	152	341107	40.00	ppm	0.00
103) Acenaphthene-d10a	7.926	164	684295	40.00	ppm	0.00
105) Chrysene-d12a	13.071	240	890582	40.00	ppm	0.00
108) Phenanthrene-d10a	9.481	188	1003418	40.00	ppm	0.00
111) Naphthalene-d8a	6.212	136	1260750	40.00	ppm	0.00
113) Chrysene-d12b	13.071	240	890582	40.00	ppm	0.00
115) 1,4-Dichlorobenzene-d4b	5.004	152	341107	40.00	ppm	0.00
117) Chrysene-d12c	13.071	240	890582	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%			
109) o-terphenyl	0.000	230	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
Target Compounds						Qvalue
102) Benzaldehyde	4.604	105	513837	58.60	ppm	97

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

7.6.53

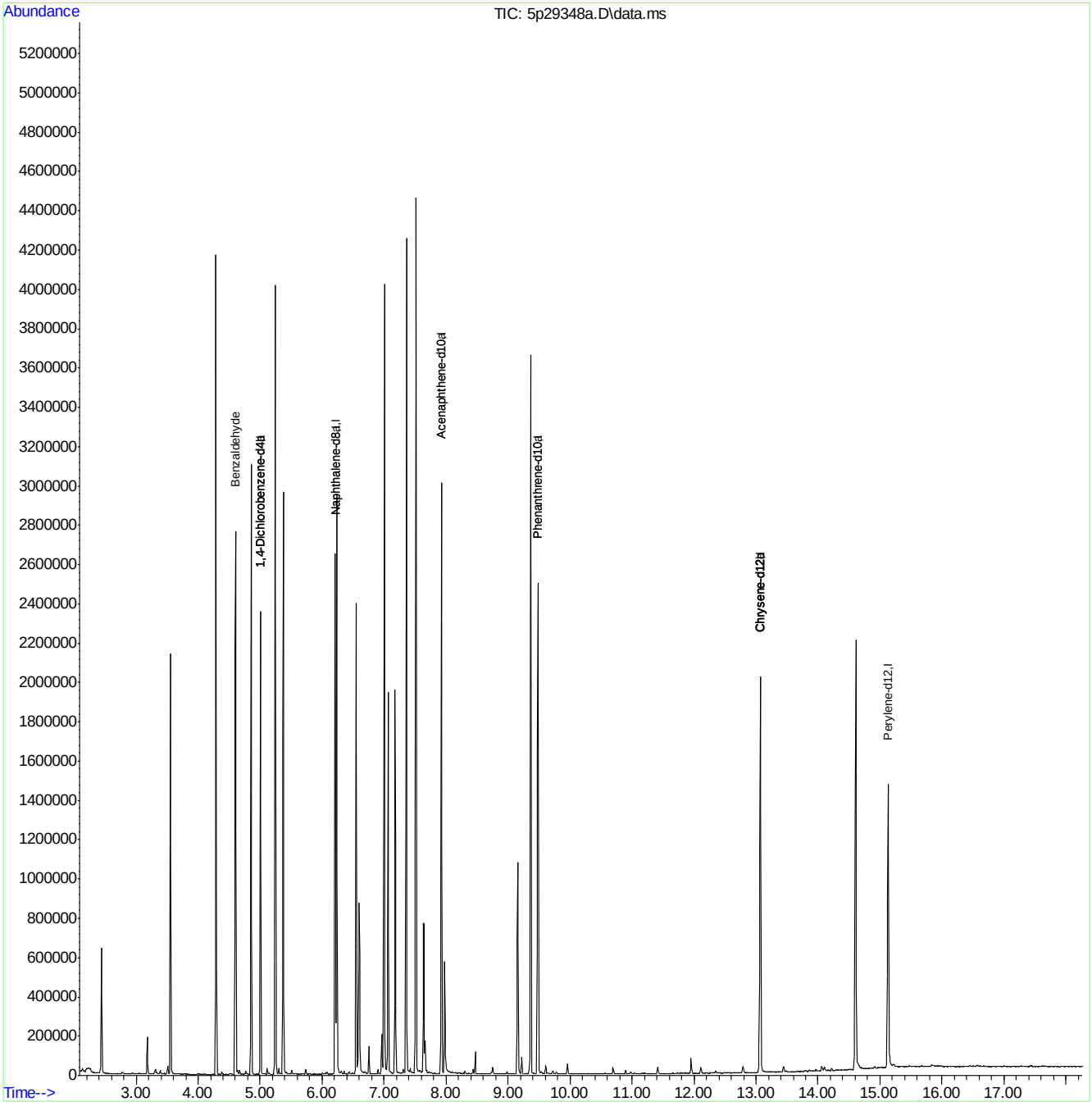
7

SGS ACCUTEST JC24133

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E5P1497\
Data File : 5p29348a.D
Acq On : 1 Jul 2016 10:09 pm
Operator : ashleyn
Sample : icv1497-50
Misc : op94797,e5p1497
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Jul 03 16:01:30 2016
Quant Method : C:\MSDCHEM\1\METHODS\M5P1496.M
Quant Title : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
QLast Update : Sun Jul 03 14:48:44 2016
Response via : Initial Calibration



M5P1496.M Sun Jul 03 16:01:34 2016 RPT1 Page: 2

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E5P1497\
Data File : 5p29349.D
Acq On : 1 Jul 2016 10:34 pm
Operator : ashleyn
Sample : icv1496-50
Misc : op94797,e5p1497
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Jul 03 16:01:41 2016
Quant Method : C:\MSDCHEM\1\METHODS\M5P1496.M
Quant Title : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
QLast Update : Sun Jul 03 14:48:44 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	5.004	152	344057	40.00	ppm	0.00
24) Naphthalene-d8	6.212	136	1292259	40.00	ppm	0.00
47) Acenaphthene-d10	7.926	164	708798	40.00	ppm	0.00
69) Phenanthrene-d10	9.481	188	1115279	40.00	ppm	0.00
83) Chrysene-d12	13.071	240	1072165	40.00	ppm	0.00
91) Perylene-d12	15.133	264	999029	40.00	ppm	0.00
101) 1,4-Dichlorobenzene-d4a	5.004	152	344057	40.00	ppm	0.00
103) Acenaphthene-d10a	7.926	164	708798	40.00	ppm	0.00
105) Chrysene-d12a	13.071	240	1072165	40.00	ppm	0.00
108) Phenanthrene-d10a	9.481	188	1115279	40.00	ppm	0.00
111) Naphthalene-d8a	6.212	136	1292259	40.00	ppm	0.00
113) Chrysene-d12b	13.071	240	1072165	40.00	ppm	0.00
115) 1,4-Dichlorobenzene-d4b	5.004	152	344057	40.00	ppm	0.00
117) Chrysene-d12c	13.071	240	1072161	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	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	0d	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%			
109) o-terphenyl	0.000	230	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
Target Compounds						Qvalue
88) 3,3'-Dichlorobenzidine	13.039	252	532527	48.12	ppm	97

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

7.6.54

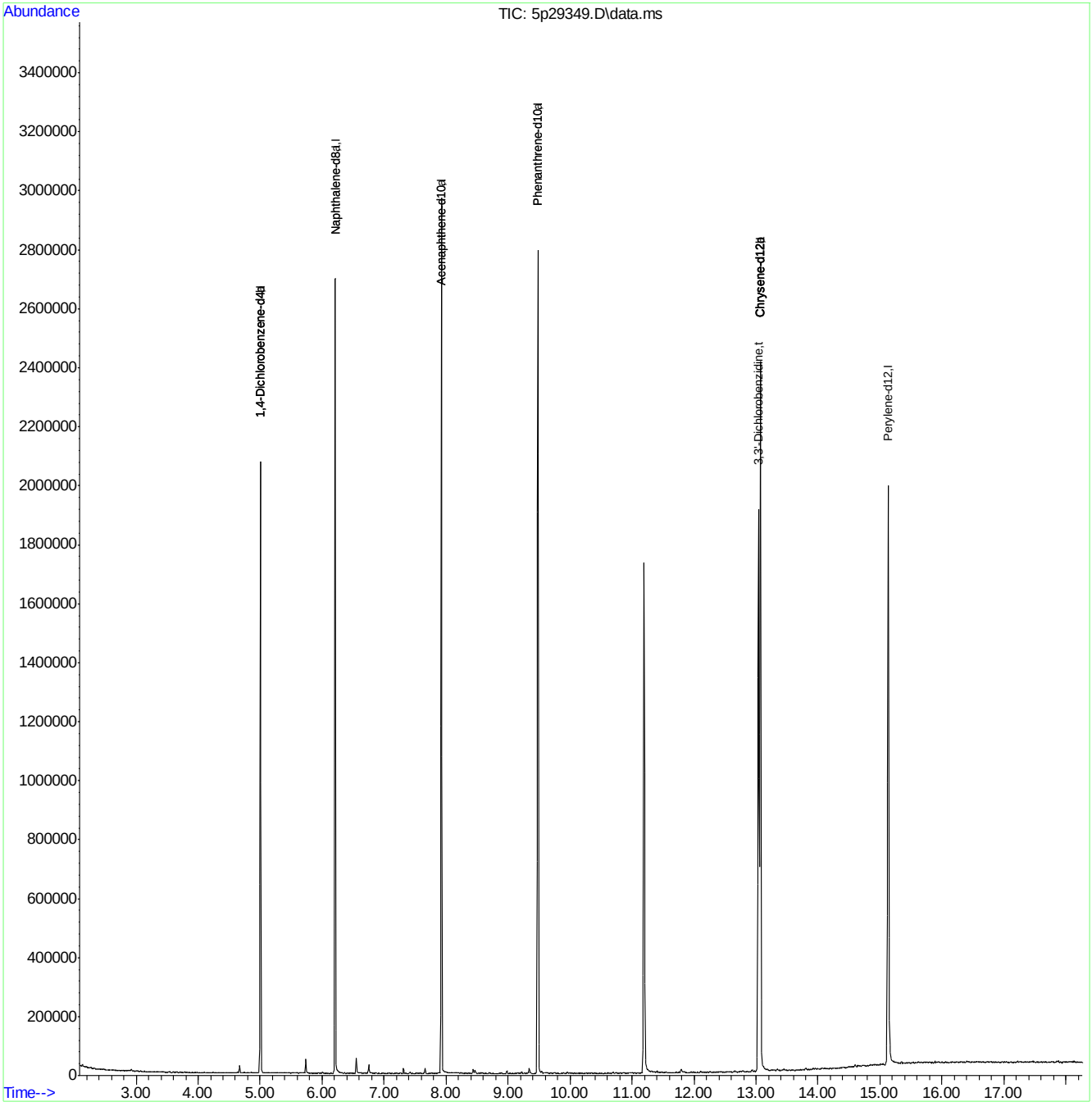
7

SGS ACCUTEST JC24133

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E5P1497\
Data File : 5p29349.D
Acq On : 1 Jul 2016 10:34 pm
Operator : ashleyn
Sample : icv1496-50
Misc : op94797,e5p1497
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Jul 03 16:01:41 2016
Quant Method : C:\MSDCHEM\1\METHODS\M5P1496.M
Quant Title : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
QLast Update : Sun Jul 03 14:48:44 2016
Response via : Initial Calibration



M5P1496.M Sun Jul 03 16:02:02 2016 RPT1 Page: 2

SGS ACCUTEST JC24133

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E5P1497\
Data File : 5p29349a.D
Acq On : 1 Jul 2016 10:34 pm
Operator : ashleyn
Sample : icv1497-50
Misc : op94797,e5p1497
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Jul 03 16:02:09 2016
Quant Method : C:\MSDCHEM\1\METHODS\M5P1496.M
Quant Title : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
QLast Update : Sun Jul 03 14:48:44 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	5.004	152	344057	40.00	ppm	0.00
24) Naphthalene-d8	6.212	136	1292259	40.00	ppm	0.00
47) Acenaphthene-d10	7.926	164	708798	40.00	ppm	0.00
69) Phenanthrene-d10	9.481	188	1115279	40.00	ppm	0.00
83) Chrysene-d12	13.071	240	1072165	40.00	ppm	0.00
91) Perylene-d12	15.133	264	999029	40.00	ppm	0.00
101) 1,4-Dichlorobenzene-d4a	5.004	152	344057	40.00	ppm	0.00
103) Acenaphthene-d10a	7.926	164	708798	40.00	ppm	0.00
105) Chrysene-d12a	13.071	240	1072165	40.00	ppm	0.00
108) Phenanthrene-d10a	9.481	188	1115279	40.00	ppm	0.00
111) Naphthalene-d8a	6.212	136	1292259	40.00	ppm	0.00
113) Chrysene-d12b	13.071	240	1072165	40.00	ppm	0.00
115) 1,4-Dichlorobenzene-d4b	5.004	152	344057	40.00	ppm	0.00
117) Chrysene-d12c	13.071	240	1072161	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	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	0d	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%			
109) o-terphenyl	0.000	230	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
Target Compounds						Qvalue
106) Benzidine	11.196	184	849806	63.08	ppm	99

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

7.6.55

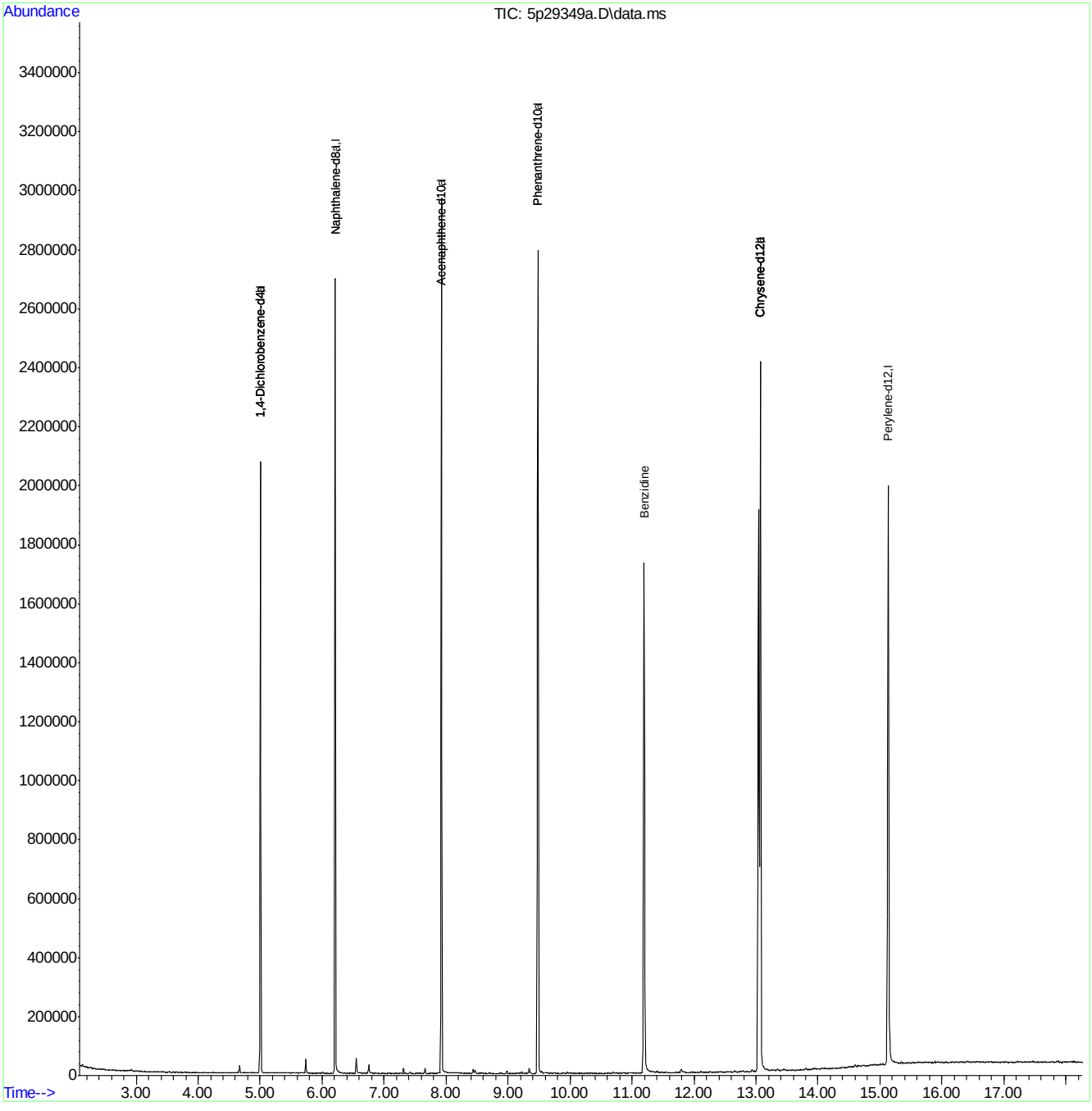
7

SGS ACCUTEST JC24133

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E5P1497\
Data File : 5p29349a.D
Acq On : 1 Jul 2016 10:34 pm
Operator : ashleyn
Sample : icv1497-50
Misc : op94797,e5p1497
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Jul 03 16:02:09 2016
Quant Method : C:\MSDCHEM\1\METHODS\M5P1496.M
Quant Title : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
QLast Update : Sun Jul 03 14:48:44 2016
Response via : Initial Calibration



M5P1496.M Sun Jul 03 16:02:12 2016 RPT1 Page: 2

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E5P1497\
Data File : 5p29350.D
Acq On : 1 Jul 2016 11:00 pm
Operator : ashleyn
Sample : icv1497-50
Misc : op94797,e5p1497
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Jul 03 15:03:31 2016
Quant Method : C:\MSDCHEM\1\METHODS\M5P1496.M
Quant Title : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
QLast Update : Sun Jul 03 14:48:44 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	5.004	152	290113	40.00	ppm	0.00
24) Naphthalene-d8	6.212	136	1115656	40.00	ppm	0.00
47) Acenaphthene-d10	7.926	164	612660	40.00	ppm	0.00
69) Phenanthrene-d10	9.481	188	922899	40.00	ppm	0.00
83) Chrysene-d12	13.071	240	918177	40.00	ppm	0.00
91) Perylene-d12	15.133	264	823864	40.00	ppm	0.00
101) 1,4-Dichlorobenzene-d4a	5.004	152	290113	40.00	ppm	0.00
103) Acenaphthene-d10a	7.926	164	612660	40.00	ppm	0.00
105) Chrysene-d12a	13.071	240	918110	40.00	ppm	0.00
108) Phenanthrene-d10a	9.481	188	922899	40.00	ppm	0.00
111) Naphthalene-d8a	6.212	136	1115656	40.00	ppm	0.00
113) Chrysene-d12b	13.071	240	918110	40.00	ppm	0.00
115) 1,4-Dichlorobenzene-d4b	5.004	152	290113	40.00	ppm	0.00
117) Chrysene-d12c	13.071	240	918110	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	0d	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%	
109) o-terphenyl	0.000	230	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
Target Compounds						Qvalue
112) Hydroquinone	6.601	110	441334	50.97	ppm	99

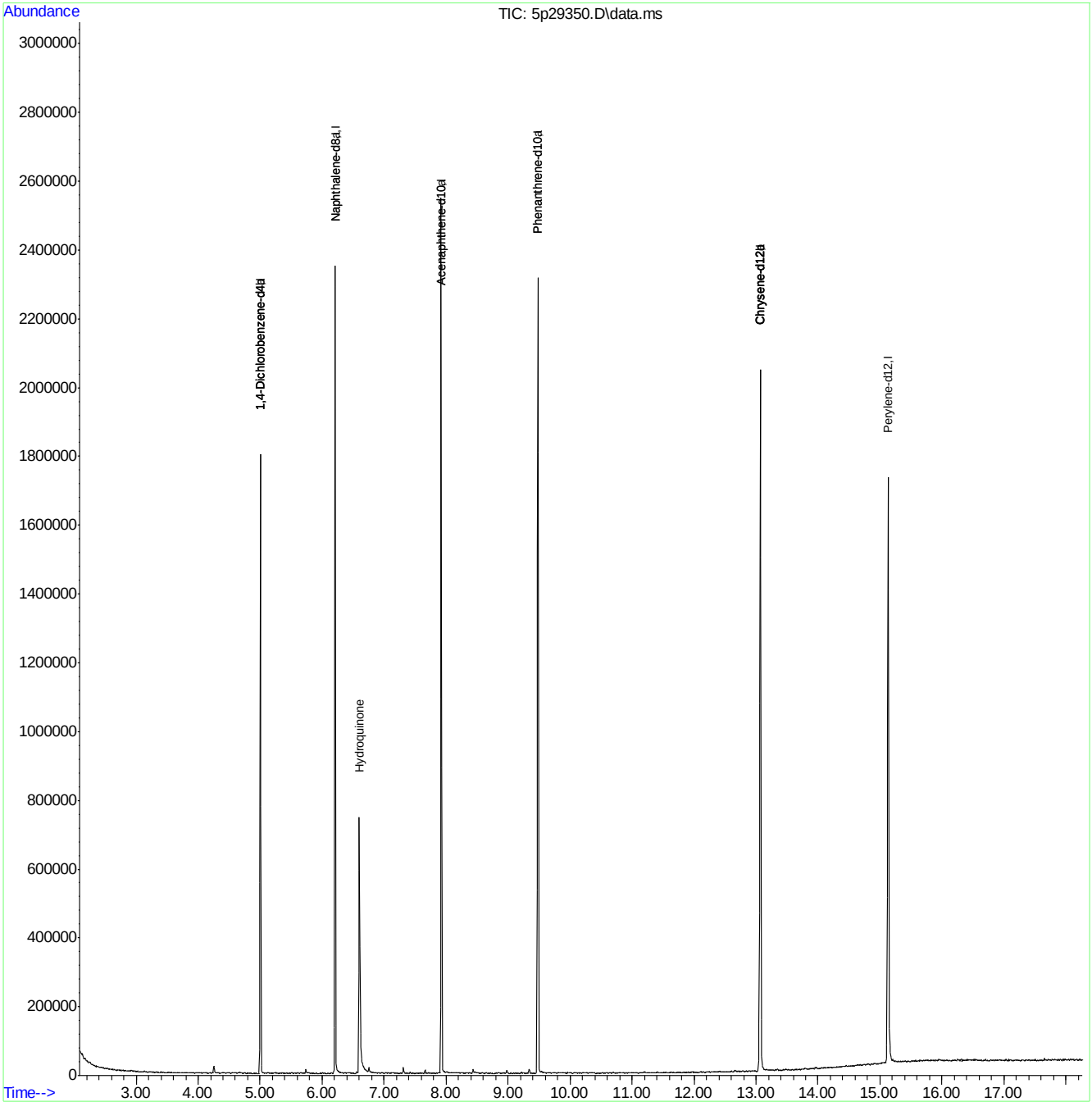
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC24133

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E5P1497\
Data File : 5p29350.D
Acq On : 1 Jul 2016 11:00 pm
Operator : ashleyn
Sample : icv1497-50
Misc : op94797,e5p1497
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Jul 03 15:03:31 2016
Quant Method : C:\MSDCHEM\1\METHODS\M5P1496.M
Quant Title : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
QLast Update : Sun Jul 03 14:48:44 2016
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E5P1500\
Data File : 5p29399.D
Acq On : 5 Jul 2016 9:26 am
Operator : ashleyd
Sample : icv1496-50
Misc : op94797,e5p1500
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 06 12:25:16 2016
Quant Method : C:\MSDCHEM\1\METHODS\M5P1496.M
Quant Title : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
QLast Update : Sun Jul 03 15:53:32 2016
Response via : Initial Calibration

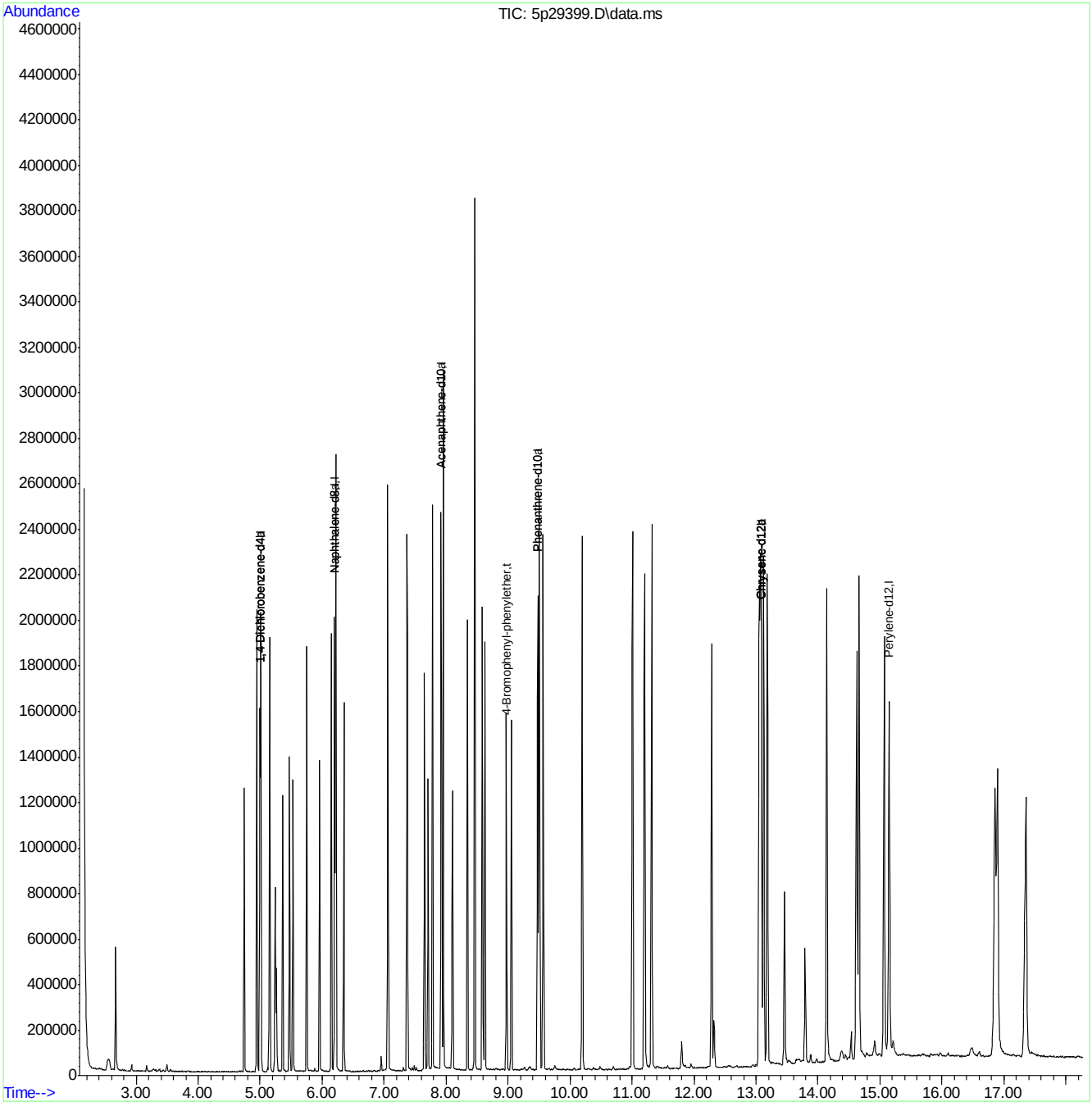
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.994	152	244867	40.00	ppm	-0.01
24) Naphthalene-d8	6.201	136	926417	40.00	ppm	-0.01
47) Acenaphthene-d10	7.921	164	544483	40.00	ppm	0.00
69) Phenanthrene-d10	9.481	188	869084	40.00	ppm	0.00
83) Chrysene-d12	13.087	240	772235	40.00	ppm	0.01
91) Perylene-d12	15.149	264	744630	40.00	ppm	0.01
101) 1,4-Dichlorobenzene-d4a	4.994	152	244867	40.00	ppm	-0.01
103) Acenaphthene-d10a	7.921	164	544483	40.00	ppm	0.00
105) Chrysene-d12a	13.087	240	772235	40.00	ppm	0.02
108) Phenanthrene-d10a	9.481	188	869084	40.00	ppm	0.00
111) Naphthalene-d8a	6.201	136	926417	40.00	ppm	-0.01
113) Chrysene-d12b	13.087	240	772235	40.00	ppm	0.01
115) 1,4-Dichlorobenzene-d4b	4.994	152	244867	40.00	ppm	-0.01
117) Chrysene-d12c	13.087	240	772217	40.00	ppm	0.02
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	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	0d	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%			
109) o-terphenyl	0.000	230	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
Target Compounds						Qvalue
74) 4-Bromophenyl-phenylether	8.979	248	203264	53.14	ppm	97

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E5P1500\
Data File : 5p29399.D
Acq On : 5 Jul 2016 9:26 am
Operator : ashleyd
Sample : icv1496-50
Misc : op94797,e5p1500
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 06 12:25:16 2016
Quant Method : C:\MSDCHEM\1\METHODS\M5P1496.M
Quant Title : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
QLast Update : Sun Jul 03 15:53:32 2016
Response via : Initial Calibration



M5P1496.M Wed Jul 06 12:25:23 2016 RPT1 Page: 2

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E5P1500\
Data File : 5p29400.D
Acq On : 5 Jul 2016 9:51 am
Operator : ashleyd
Sample : icv1497-50
Misc : op94797,e5p1500
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 06 12:25:55 2016
Quant Method : C:\MSDCHEM\1\METHODS\M5P1496.M
Quant Title : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
QLast Update : Sun Jul 03 15:53:32 2016
Response via : Initial Calibration

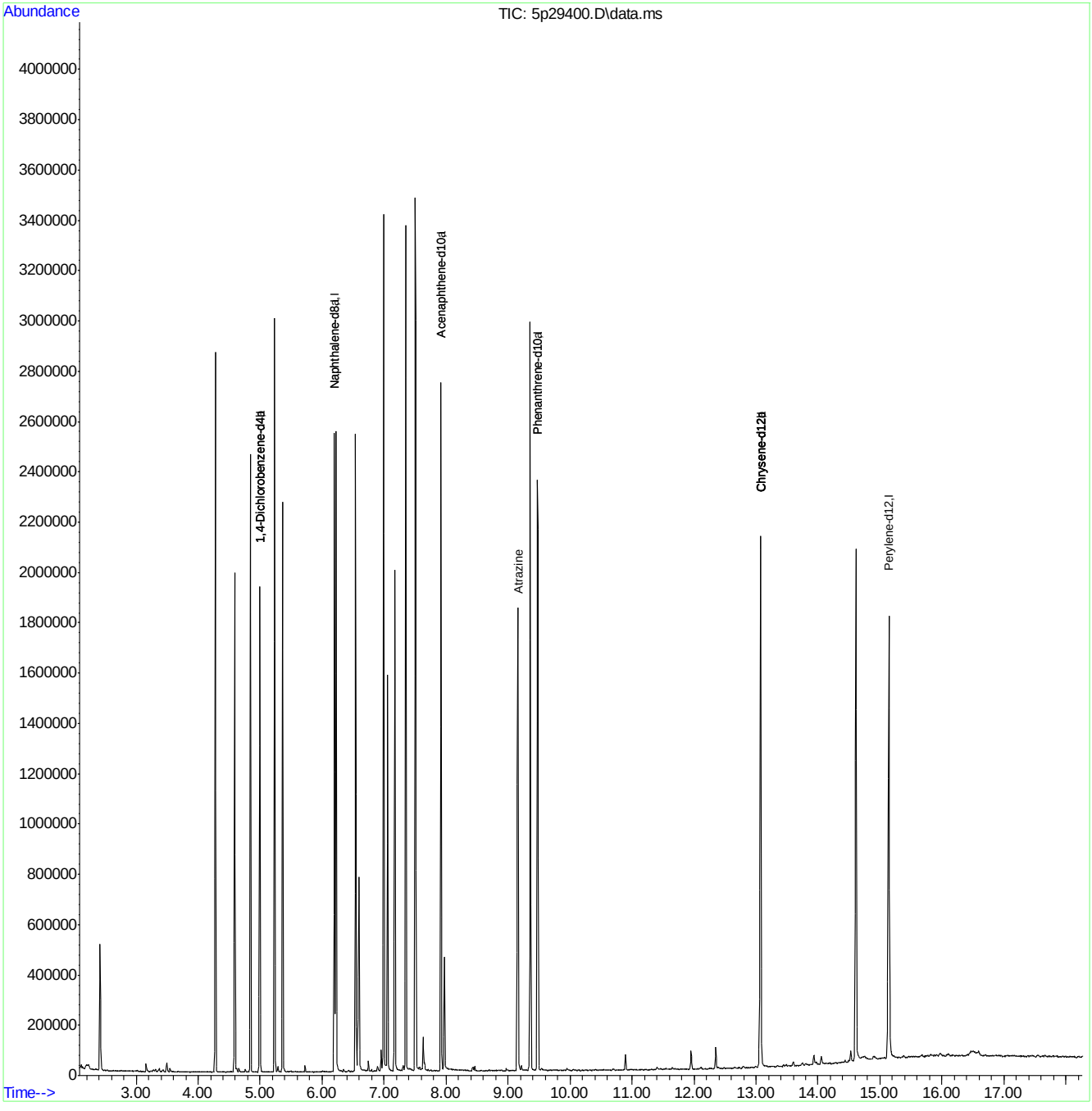
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.993	152	282041	40.00	ppm	-0.01
24) Naphthalene-d8	6.201	136	1101450	40.00	ppm	-0.01
47) Acenaphthene-d10	7.916	164	607755	40.00	ppm	-0.01
69) Phenanthrene-d10	9.476	188	972312	40.00	ppm	-0.01
83) Chrysene-d12	13.076	240	988441	40.00	ppm	0.00
91) Perylene-d12	15.144	264	889322	40.00	ppm	0.00
101) 1,4-Dichlorobenzene-d4a	4.993	152	282041	40.00	ppm	-0.01
103) Acenaphthene-d10a	7.916	164	607755	40.00	ppm	-0.01
105) Chrysene-d12a	13.076	240	988441	40.00	ppm	0.00
108) Phenanthrene-d10a	9.476	188	972312	40.00	ppm	0.00
111) Naphthalene-d8a	6.201	136	1101450	40.00	ppm	-0.01
113) Chrysene-d12b	13.076	240	988441	40.00	ppm	0.00
115) 1,4-Dichlorobenzene-d4b	4.993	152	282041	40.00	ppm	-0.01
117) Chrysene-d12c	13.076	240	988441	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	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
85) Terphenyl-d14	0.000	244	0d	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%			
109) o-terphenyl	0.000	230	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
Target Compounds						Qvalue
110) Atrazine	9.160	215	127147	48.94	ppm	91

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E5P1500\
Data File : 5p29400.D
Acq On : 5 Jul 2016 9:51 am
Operator : ashleyd
Sample : icv1497-50
Misc : op94797,e5p1500
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 06 12:25:55 2016
Quant Method : C:\MSDCHEM\1\METHODS\M5P1496.M
Quant Title : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
QLast Update : Sun Jul 03 15:53:32 2016
Response via : Initial Calibration



M5P1496.M Wed Jul 06 12:26:02 2016 RPT1 Page: 2

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E5P1518\
Data File : 5p29754.D
Acq On : 18 Jul 2016 9:34 am
Operator : ashleyn
Sample : cc1496-50
Misc : op94707a,e5p1518
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 18 12:41:39 2016
Quant Method : C:\MSDCHEM\1\METHODS\M5P1496.M
Quant Title : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
QLast Update : Fri Jul 15 20:51:24 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.881	152	256789	40.00	ppm	-0.01
24) Naphthalene-d8	6.089	136	1063155	40.00	ppm	-0.01
47) Acenaphthene-d10	7.804	164	634357	40.00	ppm	-0.01
69) Phenanthrene-d10	9.347	188	1045072	40.00	ppm	-0.02
83) Chrysene-d12	12.927	240	742604	40.00	ppm	-0.02
91) Perylene-d12	14.983	264	699665	40.00	ppm	-0.03
101) 1,4-Dichlorobenzene-d4a	4.881	152	256789	40.00	ppm	-0.01
103) Acenaphthene-d10a	7.804	164	634357	40.00	ppm	-0.01
105) Chrysene-d12a	12.927	240	742553	40.00	ppm	-0.02
107) Phenanthrene-d10a	9.347	188	1045072	40.00	ppm	-0.02
109) Naphthalene-d8a	6.089	136	1063155	40.00	ppm	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	3.754	112	360311	46.10	ppm	0.00
Spiked Amount 50.000			Recovery = 92.20%			
8) Phenol-d5	4.593	99	422622	44.53	ppm	0.04
Spiked Amount 50.000			Recovery = 89.06%			
25) Nitrobenzene-d5	5.405	82	333023	43.05	ppm	-0.01
Spiked Amount 50.000			Recovery = 86.10%			
51) 2-Fluorobiphenyl	7.136	172	777210	45.78	ppm	-0.02
Spiked Amount 50.000			Recovery = 91.56%			
73) 2,4,6-Tribromophenol	8.600	330	101009	45.44	ppm	0.00
Spiked Amount 50.000			Recovery = 90.88%			
85) Terphenyl-d14	11.399	244	673214	47.58	ppm	-0.03
Spiked Amount 50.000			Recovery = 95.16%			
Target Compounds						Qvalue
2) 1,4-Dioxane	2.301	88	139797	40.01	ppm	94
3) Pyridine	2.616	79	329311	39.48	ppm	94
4) N-Nitrosodimethylamine	2.557	74	181334	38.63	ppm	89
6) Indene	5.116	116	719326	49.02	ppm	96
7) Cumene	4.155	105	907858	44.64	ppm	97
9) Phenol	4.609	94	504005	44.18	ppm	95
10) Aniline	4.598	93	238589	19.39	ppm #	31
11) bis(2-Chloroethyl)ether	4.636	93	364448	49.13	ppm	95
12) 2-Chlorophenol	4.710	128	441850	48.32	ppm	93
13) Decane	4.726	43	288903	36.83	ppm	95
14) 1,3-Dichlorobenzene	4.828	146	474143	47.39	ppm	100
15) 1,4-Dichlorobenzene	4.897	146	468499	47.94	ppm	97
16) Benzyl alcohol	5.026	108	225477	42.41	ppm	95
17) 1,2-Dichlorobenzene	5.036	146	434813	47.06	ppm	99
18) Acetophenone	5.255	105	508104	45.39	ppm	78
19) 2-Methylphenol	5.154	108	329323	43.95	ppm	98
20) 2,2'-oxybis(1-Chloropr...	5.132	45	382705	38.95	ppm	92
21) 3&4-Methylphenol	5.298	108	368744	46.51	ppm	99
22) n-Nitroso-di-n-propyla...	5.266	70	206586	41.03	ppm	96
23) Hexachloroethane	5.351	201	126071	42.64	ppm	87
26) Nitrobenzene	5.421	77	337009	42.30	ppm	93
27) Quinoline	6.441	129	877271	49.80	ppm	97

SGS ACCUTEST JC24133

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E5P1518\
Data File : 5p29754.D
Acq On : 18 Jul 2016 9:34 am
Operator : ashleyn
Sample : cc1496-50
Misc : op94707a,e5p1518
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 18 12:41:39 2016
Quant Method : C:\MSDCHEM\1\METHODS\M5P1496.M
Quant Title : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
QLast Update : Fri Jul 15 20:51:24 2016
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
28)	Isophorone	5.651	82	597829	42.32	ppm		95
29)	2-Nitrophenol	5.725	139	256776	51.30	ppm		85
30)	2,4-Dimethylphenol	5.789	107	359594	42.53	ppm		95
31)	Benzoic acid	5.934	105	233848m	45.79	ppm		
32)	bis(2-Chloroethoxy)met...	5.848	93	393030	43.47	ppm		98
33)	2,4-Dichlorophenol	5.982	162	346632	46.86	ppm		97
34)	2,6-Dichlorophenol	6.179	162	325750	44.81	ppm		98
35)	1,3,5-Trichlorobenzene	5.731	180	352466	44.24	ppm		98
36)	1,2,4-Trichlorobenzene	6.035	180	338161	44.95	ppm		98
37)	1,2,3-Trichlorobenzene	6.249	180	334528	45.60	ppm		98
38)	Naphthalene	6.110	128	1190914	47.65	ppm		100
39)	4-Chloroaniline	6.174	127	395635	38.01	ppm		98
40)	2,3-Dichloroaniline	7.066	161	395620	45.70	ppm		96
41)	Caprolactam	6.543	55	150369	43.85	ppm		95
42)	Hexachlorobutadiene	6.228	225	155769	40.54	ppm		99
43)	4-Chloro-3-methylphenol	6.682	107	342224	47.04	ppm		93
44)	2-Methylnaphthalene	6.778	141	695975	49.63	ppm		98
45)	1-Methylnaphthalene	6.874	141	731441	48.50	ppm		100
46)	Dimethylnaphthalene	7.392	156	742894	50.01	ppm		98
48)	Hexachlorocyclopentadiene	6.938	237	321083	84.93	ppm		99
49)	2,4,6-Trichlorophenol	7.077	196	217208	45.95	ppm		96
50)	2,4,5-Trichlorophenol	7.130	196	217939	44.55	ppm		99
52)	2-Chloronaphthalene	7.259	162	700492	45.84	ppm		98
53)	Biphenyl	7.237	154	1021653	49.44	ppm		99
54)	2-Nitroaniline	7.371	65	186090	47.42	ppm		95
55)	Dimethylphthalate	7.536	163	793812	49.91	ppm		98
56)	Acenaphthylene	7.665	152	1270616	52.40	ppm		99
57)	2,6-Dinitrotoluene	7.606	165	190089	53.76	ppm		93
58)	3-Nitroaniline	7.777	138	227388	51.31	ppm		89
59)	Acenaphthene	7.836	153	758187	50.77	ppm		96
60)	2,4-Dinitrophenol	7.884	184	223275	116.94	ppm	#	74
61)	4-Nitrophenol	8.001	109	100640	54.75	ppm	#	1
62)	Dibenzofuran	8.007	168	986864	48.12	ppm		88
63)	2,4-Dinitrotoluene	8.007	165	254348	52.25	ppm		81
64)	2,3,4,6-Tetrachlorophenol	8.145	232	178854	48.80	ppm		96
65)	Diethylphthalate	8.231	149	859797	54.15	ppm		99
66)	Fluorene	8.343	166	815590	49.80	ppm		99
67)	4-Chlorophenyl-phenyle...	8.338	204	335689	47.78	ppm		93
68)	4-Nitroaniline	8.391	138	226571	50.74	ppm		91
70)	4,6-Dinitro-2-methylph...	8.418	198	153458	53.42	ppm		94
71)	n-Nitrosodiphenylamine	8.466	169	555312	48.73	ppm		97
72)	1,2-Diphenylhydrazine	8.503	77	658437	44.64	ppm		89
74)	4-Bromophenyl-phenylether	8.845	248	200517	43.59	ppm		94
75)	Hexachlorobenzene	8.925	284	214497	43.26	ppm		85
76)	Pentachlorophenol	9.160	266	266652	103.23	ppm		99
77)	Phenanthrene	9.374	178	1102598	47.09	ppm		99
78)	Anthracene	9.433	178	1119917	46.40	ppm		99
79)	Carbazole	9.636	167	1108350	47.19	ppm		99
80)	Di-n-butylphthalate	10.053	149	1447196	50.97	ppm		100
81)	Fluoranthene	10.865	202	1074996	43.17	ppm		98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E5P1518\
Data File : 5p29754.D
Acq On : 18 Jul 2016 9:34 am
Operator : ashleyn
Sample : cc1496-50
Misc : op94707a,e5p1518
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 18 12:41:39 2016
Quant Method : C:\MSDCHEM\1\METHODS\M5P1496.M
Quant Title : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
QLast Update : Fri Jul 15 20:51:24 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
82) Octadecane	9.219	57	424262	42.38 ppm	97
84) Pyrene	11.169	202	1121819	51.33 ppm	99
86) Butylbenzylphthalate	12.125	149	639191	60.28 ppm	89
87) Benzo[a]anthracene	12.911	228	965945	47.96 ppm	98
88) 3,3'-Dichlorobenzidine	12.900	252	344096	44.89 ppm	96
89) Chrysene	12.969	228	930954	47.51 ppm	99
90) bis(2-Ethylhexyl)phtha...	13.012	149	867734	60.63 ppm	97
92) Di-n-octylphthalate	13.968	149	1549112	60.94 ppm	98
93) Benzo[b]fluoranthene	14.476	252	1021044	49.38 ppm	98
94) Benzo[k]fluoranthene	14.513	252	908575	46.01 ppm	95
95) Benzo[a]pyrene	14.909	252	891245	47.66 ppm	97
96) Indeno[1,2,3-cd]pyrene	16.640	276	1037958	58.10 ppm	85
97) Dibenz(a,h)acridine	16.244	279	805948	47.86 ppm	99
98) Dibenz[a,h]anthracene	16.672	278	896876	47.84 ppm	96
99) 7,12-Dimethylbenz(a)an...	14.465	256	451042	47.43 ppm	100
100) Benzo[g,h,i]perylene	17.120	276	891139	47.41 ppm	93

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

76.59

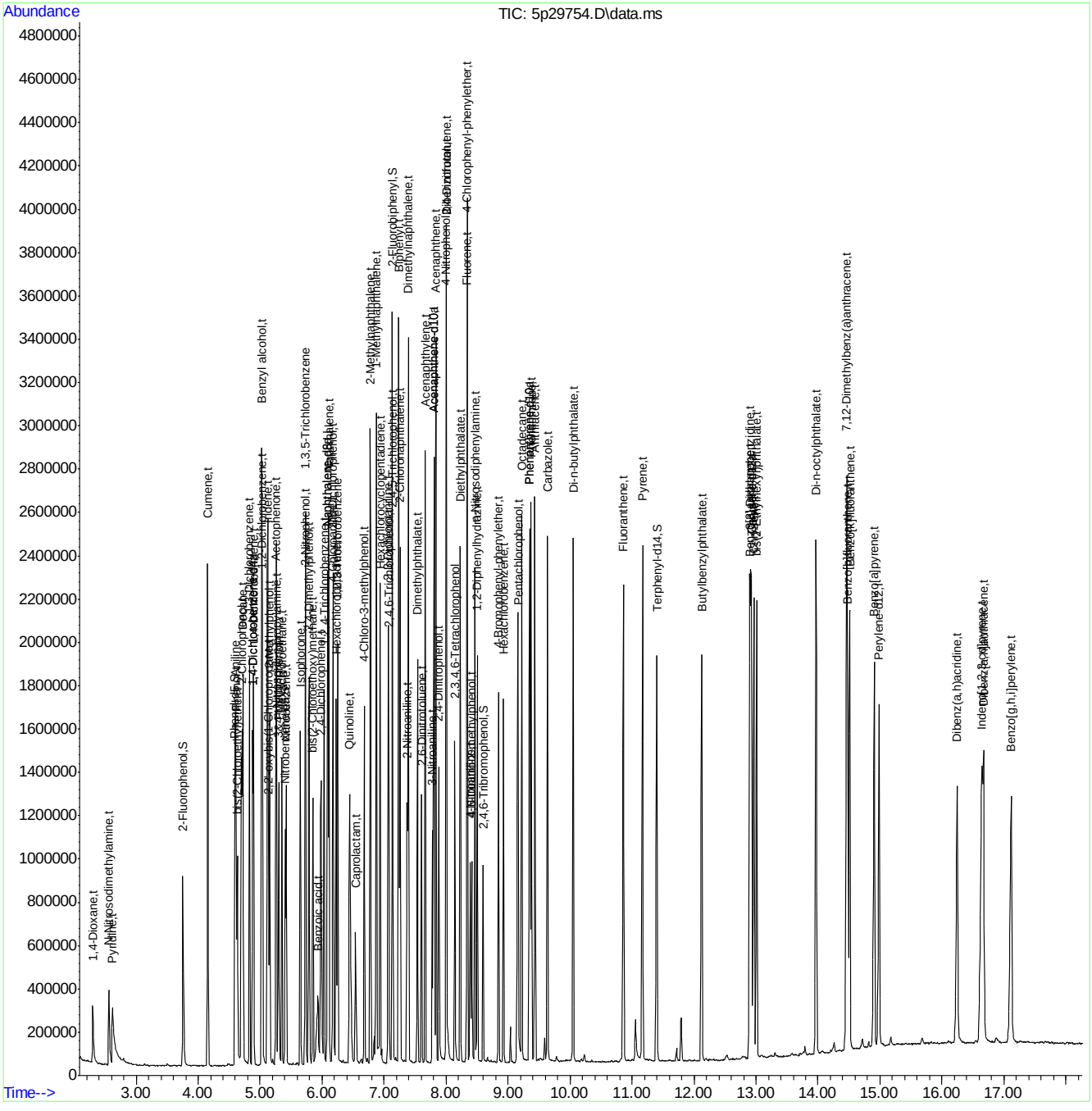
7

SGS ACCUTEST JC24133

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E5P1518\
Data File : 5p29754.D
Acq On : 18 Jul 2016 9:34 am
Operator : ashleyn
Sample : cc1496-50
Misc : op94707a,e5p1518
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 18 12:41:39 2016
Quant Method : C:\MSDCHEM\1\METHODS\M5P1496.M
Quant Title : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
QLast Update : Fri Jul 15 20:51:24 2016
Response via : Initial Calibration

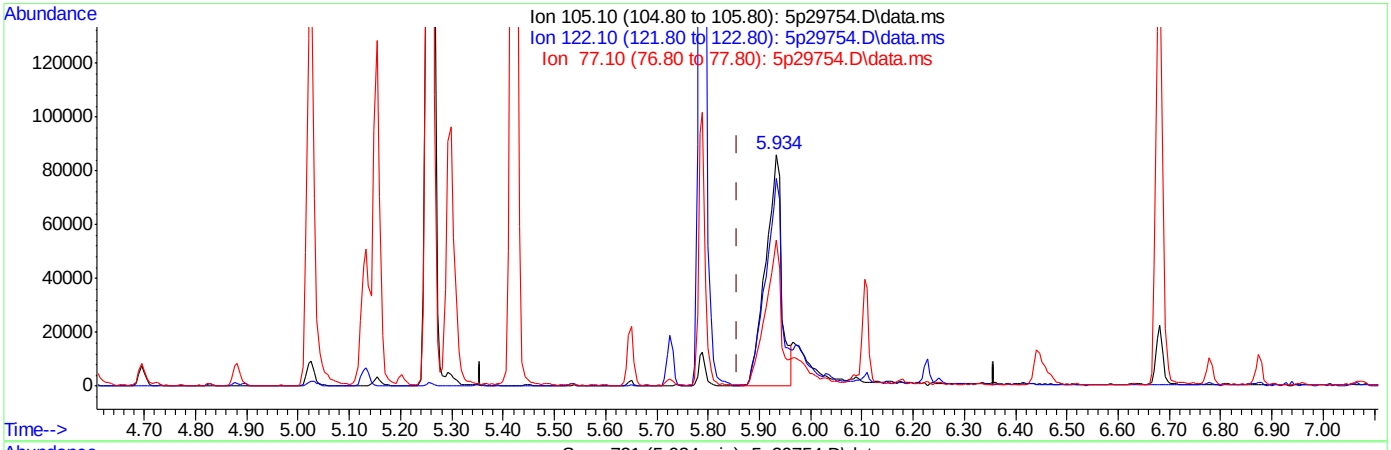


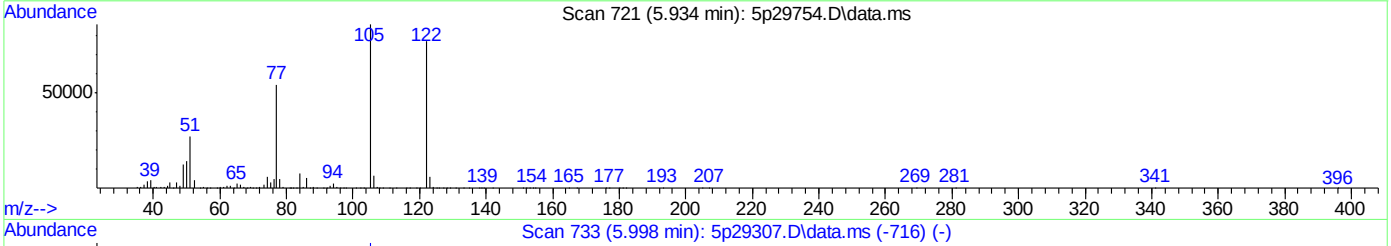
SGS ACCUTEST JC24133

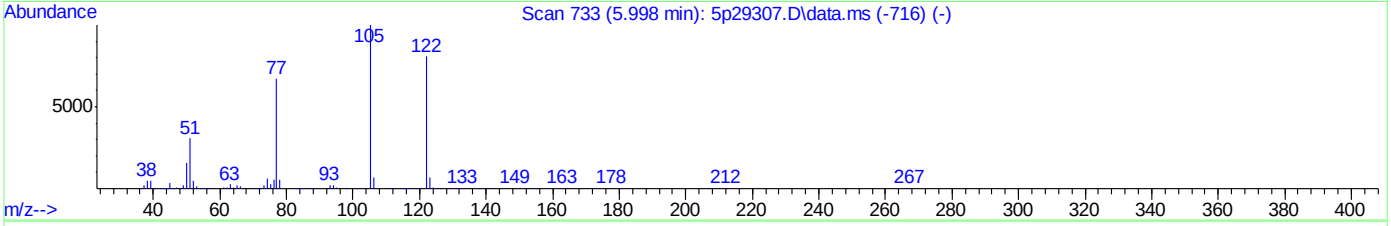
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E5P1518\
Data File : 5p29754.D
Acq On : 18 Jul 2016 9:34 am
Operator : ashleyn
Sample : cc1496-50
Misc : op94707a,e5p1518
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 18 09:53:11 2016
Quant Method : C:\MSDCHEM\1\METHODS\M5P1496.M
Quant Title : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
QLast Update : Fri Jul 15 20:51:24 2016
Response via : Initial Calibration







TIC: 5p29754.D\data.ms

(31) Benzoic acid (t)

5.934min (+0.076) 38.22ppm

response 188067

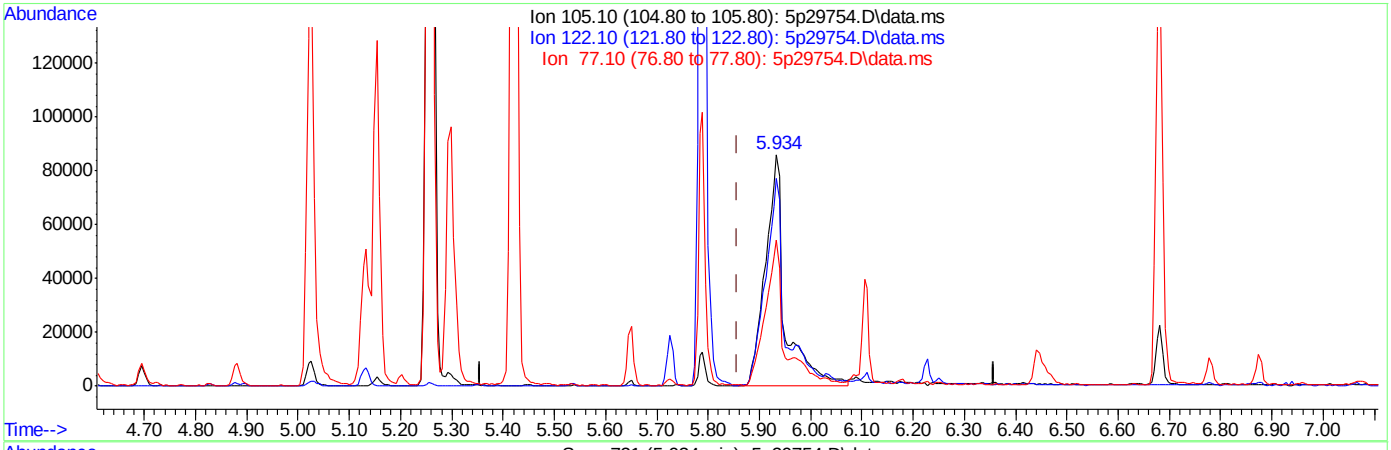
Ion	Exp%	Act%
105.10	100	100
122.10	81.90	89.78
77.10	65.30	62.82
0.00	0.00	0.00

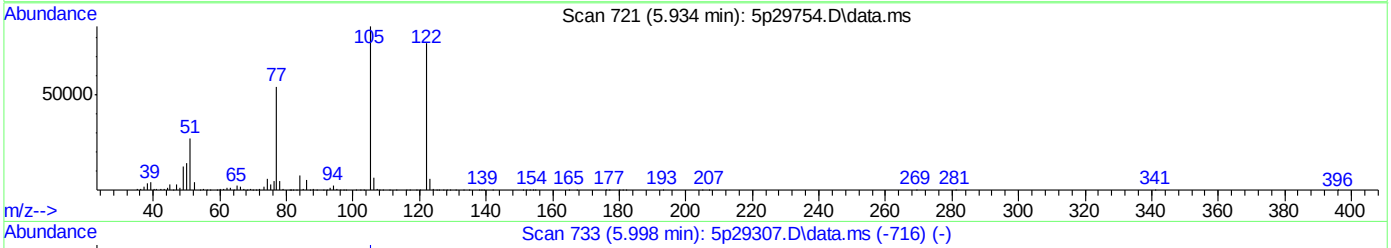
SGS ACCUTEST JC24133

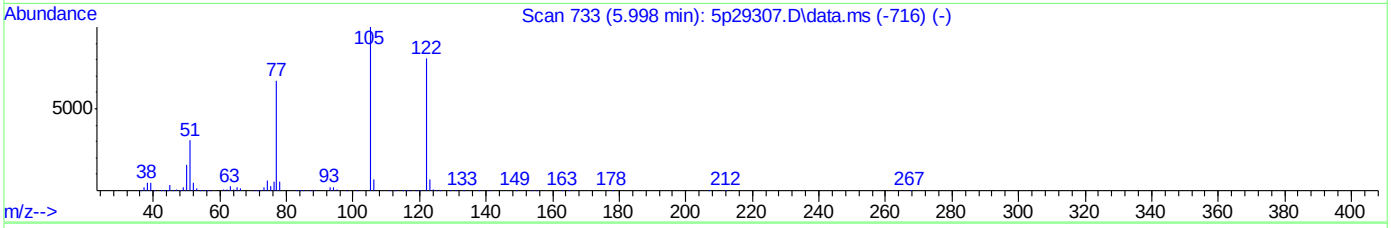
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E5P1518\
Data File : 5p29754.D
Acq On : 18 Jul 2016 9:34 am
Operator : ashleyn
Sample : cc1496-50
Misc : op94707a,e5p1518
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 18 09:53:11 2016
Quant Method : C:\MSDCHEM\1\METHODS\M5P1496.M
Quant Title : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
QLast Update : Fri Jul 15 20:51:24 2016
Response via : Initial Calibration







TIC: 5p29754.D\data.ms

(31) Benzoic acid (t)

5.934min (+0.076) 45.79ppm m

response 233848

Ion	Exp%	Act%
105.10	100	100
122.10	81.90	89.58
77.10	65.30	63.29
0.00	0.00	0.00

SGS ACCUTEST JC24133

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E5P1518\
Data File : 5p29755.D
Acq On : 18 Jul 2016 10:01 am
Operator : ashleyn
Sample : cc1497-50
Misc : op94707a,e5p1518
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 18 12:42:03 2016
Quant Method : C:\MSDCHEM\1\METHODS\M5P1496.M
Quant Title : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
QLast Update : Fri Jul 15 20:51:24 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.876	152	214673	40.00	ppm	-0.02
24) Naphthalene-d8	6.083	136	808571	40.00	ppm	-0.02
47) Acenaphthene-d10	7.798	164	455791	40.00	ppm	-0.02
69) Phenanthrene-d10	9.342	188	776103	40.00	ppm	-0.02
83) Chrysene-d12	12.916	240	592239	40.00	ppm	-0.03
91) Perylene-d12	14.978	264	548442	40.00	ppm	-0.03
101) 1,4-Dichlorobenzene-d4a	4.876	152	214673	40.00	ppm	-0.02
103) Acenaphthene-d10a	7.798	164	455791	40.00	ppm	-0.02
105) Chrysene-d12a	12.916	240	592259	40.00	ppm	-0.03
107) Phenanthrene-d10a	9.342	188	776103	40.00	ppm	-0.02
109) Naphthalene-d8a	6.083	136	808571	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	4.481	105	250190	45.34	ppm	93
104) 1,2,4,5-Tetrachloroben...	6.944	216	264052	46.23	ppm	99
106) Benzidine	11.052	184	354723	47.67	ppm	99
108) Atrazine	9.038	215	90302	43.55	ppm	98
110) Hydroquinone	6.543	110	347271	55.34	ppm	100

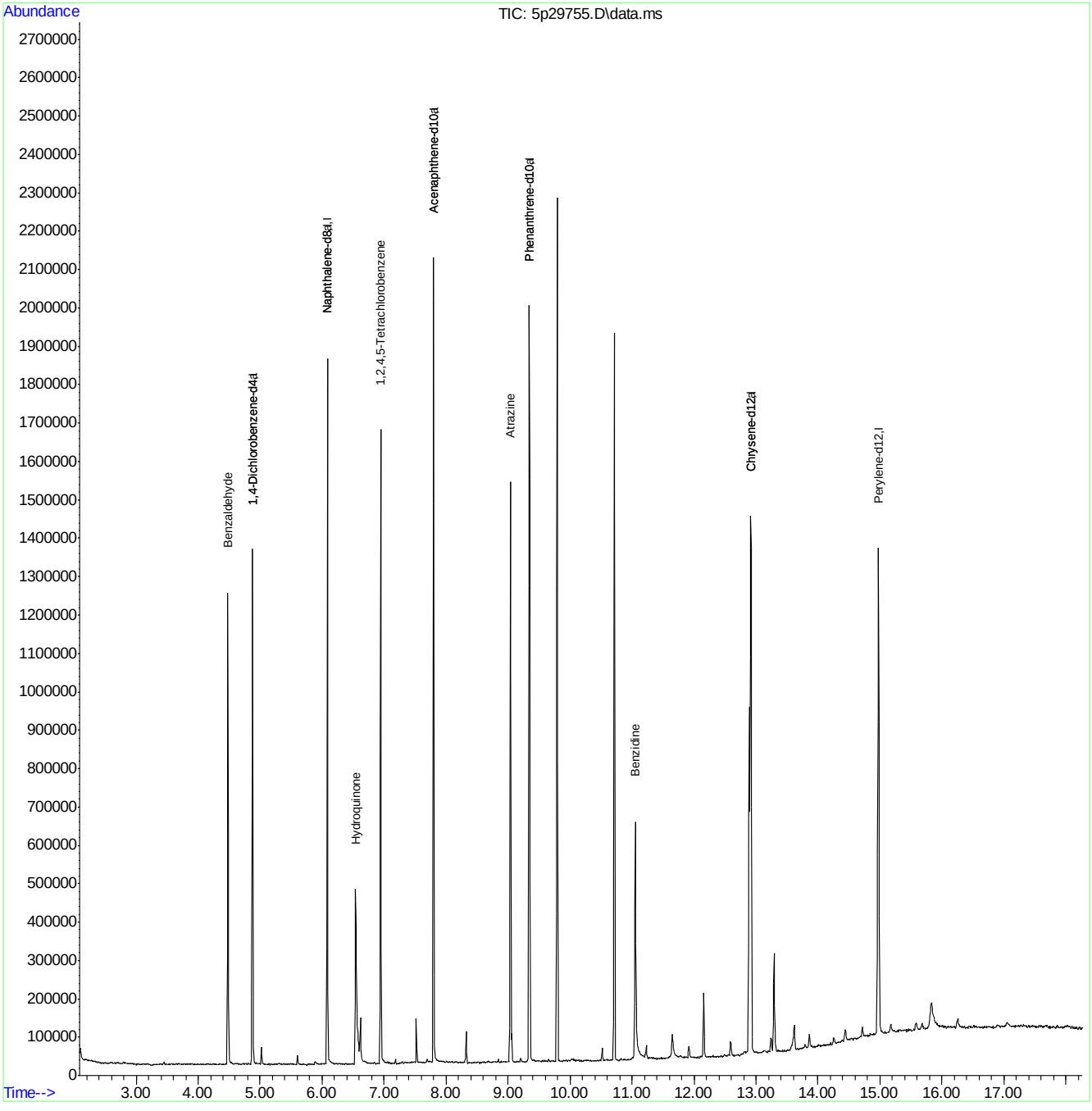
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC24133

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E5P1518\
Data File : 5p29755.D
Acq On : 18 Jul 2016 10:01 am
Operator : ashleyn
Sample : cc1497-50
Misc : op94707a,e5p1518
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 18 12:42:03 2016
Quant Method : C:\MSDCHEM\1\METHODS\M5P1496.M
Quant Title : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
QLast Update : Fri Jul 15 20:51:24 2016
Response via : Initial Calibration



M5P1496.M Mon Jul 18 12:42:13 2016 RPT1 Page: 2

SEMI-VOLATILE by GCMS ANALYSIS LOG

SGS ACCUTEST

Batch ID E3E3699

Print Analyst Name: Ashley N.

Date: 6-22-16

Analyst Signature: AN

Columns: Rxi 5Silms 30m x 25mm x 25µm

Method 8270 D / 625

Initial Cal. Method M3E3699

Injection Volume: 1µl

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
SV 1587791	DFTPP	50ppm
CMS732	Internal std	4000ppm
163039	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: Anne.

Date: 6/23/16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution.	L+	IS	SU	Status (Data)	Comments
	BE 84381	DFTPP			W	1					NG	68↑ 275↑ reinject
	84382	DFTPP			W	1					↓	68↑ 275↑ retune
	84383	DFTPP			W	1					NG	275 442↑ retune.
	84384	DFTPP				1					↓	275 ↓ 127↑ Reinject. ~~refund~~
	84385	DFTPP			W	1					OK ~~AG~~	9:48 AM
	84386	ic 3699-2		BNA		2			AN 6/22/16		RR	↓ solvent delay. adjust method. add 1 min to run
	84387	ic 3699-2			AN 6/22/16	32					OK	SV161935-63H
	84388	-1				3					OK	-63I
	84389	-100				4					OK	-63A
	843890	-80				5					OK	-63B
	84391	-25				6					OK	-63D
	84392	-10				7					OK	-63E
	84393	-5				8					OK	-63G
	84394	icc 3699-50				9					OK	-63C
	84395	icv 3699-50		Acids		10					OK	SV161935-70
	84396	icv 3699-50		Anilines		11					OK	-78
	84397	icv 3699-50		ABNSUM		12					OK	DP161712128

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 JC24133

SEMI-VOLATILE by GCMS ANALYSIS LOG

SGS ACCUTEST

Batch ID E3E3699

Print Analyst Name: Ashley N.

Date: 6-22-16

Analyst Signature: AN

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
	See page 73	

Columns: Rxi 5Si/ms 30m x 0.25mm x 25µm

Method 8270D / 625

Initial Cal. Method M3E3699

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: AMW

Date: 6/23/16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution.	L+	IS	SU	Status (Data)	Comments
	3E84398	icv 3699-50		BN1		13					OK	SV161935-75 AD#89
	84399	icv 3699-50		BN2		14					RR	# 40,41,45 ↓ NO 0.00 ~~nnnnn~~ SV161935-10 #.
	84400	icv 3699-50		Benzidines 250		15					OK	use for 33DCB SV161935-14B 4:33

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.

75

Form: OR015-07
Rev. Date: 1/19/16

SGS ACCUTEST JC24133

SEMI-VOLATILE by GCMS ANALYSIS LOG

SGS ACCUTEST

Batch ID: E3E3700

Print Analyst Name: Ashley N

Analyst Signature: [illegible]

Date: 6-22-16

Columns: Rxi5sil ms 30mx.25mmx.25µm

Method: 8270D 1625

Initial Cal. Method: M3E3699

Injection Volume: 1µL

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
SV5187791	DFTPP	50ppm
QM5732	Internal Std	4000ppm
63039	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: [illegible] Date: 6/23/16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution.	L+	IS	SU	Status (Data)	Comments
	3E 84401	DFTPP			W	1					NG	51↓ 275↑ reinject
	84402	DFTPP				1					↓	275↑ reinject
	84403	DFTPP				1					NG	275↑ reinject
	84404	DFTPP				1					↓	275↑, re-inject
	84405	DFTPP				1						ions out; different line [illegible]
	84406	DFTPP				1					↓	275↑, re-inject
	84407	DFTPP				1					OK	6.13pm
	84408A	IC3700-100		TCL47		2					OK	SV16435-31A method error, run as "A" file
	84409	-50				3					OK	-31B
	84410	IC3700-50				4					OK	-31M
	84411	IC3700-25				5					OK	-32H
	84412	-10				6					OK	-31E
	84413	-5				7					OK	-31G
	84414	-2				8					OK	-31H
	84415	-1				9					OK	-31I
	84416	ICV3699-50		BN1		10					OK	SV16435-75
	84417	-50		BN2		11					~~RR~~ OK	-74 40,41,21 (100.00) 100 can't report 27 or 40 ↑ in 2nd

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.

77

Form: OR015-07
Rev. Date: 1/19/16

SEMI-VOLATILE by GCMS ANALYSIS LOG

SGS ACCUTEST

Batch ID E3E3700

Print Analyst Name: Sam Black

Analyst Signature: Sam Black

Date: 6/22/16

Columns: Rtx-5silms 30m x .25mm x 2

Method 8270 D/625

Initial Cal. Method M3E3699

Injection Volume: 1µL

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
	See page 77	

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: 6/23/16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution.	L+	IS	SU	Status (Data)	Comments
	E84418	ICV3700-50		Benzid. 3rd		12					Not used	SV161955-148 ND+ Nuclear Benzidine in BN
	84419	-50		1+a		13					OK	SV157827-950 11:55PM

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.

79

Form: OR015-07
Rev. Date: 1/19/16

SEMI-VOLATILE by GCMS ANALYSIS LOG

SGS ACCUTEST

AN 7/19/16 (4)

Batch ID E3E#3739

Print Analyst Name: Ashley N.

Date: 7-19-2016

Analyst Signature: AN

Columns: RX5ssim30mx25mmx25μm

Method 8270D 1625

Initial Cal. Method M3E3699

Injection Volume: 1μL

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
SV 161935-89	dftpp	50ppm
-108F	BNA	25ppm
-32F 7/14/16	TCL42	↓
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: JL **Date:** 7/22/16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution	L+	IS	SU	Status (Data)	Comments
	3E85288	dftpp			W	1					NG	RCP↑ retune
	85289	dftpp				1					↓	68↑ Reinject
	85290	dftpp				1					not using	seq. error ran as "A" file 9:24AM
	85291	CC3699-25		BNA		2					↓	Pyrene↑ Reinstall.
	85292	dftpp			W	1					NG	127↑ 442↓ Reinject
	85293	dftpp				1					↓	127↑ 442↓ ↓
	85294	dftpp				1					NG	441↑ reinject
	85295	dftpp				1					↓	441↑ retune
	85296	dftpp			W	1					NG	127↑ 441↑ Reinject
	85297	dftpp				1					↓	127↑ 441↑ retune
	85298	DFTPP				1					not using	127 441↑ retune
	85299	DFTPP				1					↓	127↑ retune
	85300	dftpp			W	1					not using	abundance↑ retune
7/19/16	85301	DFTPP			W	1					OK	12:17PM. 3E85301 skipped by mistake AN 7/19/16 (4)
	85302	CC3699-25		BNA	W	2					not using	Bad injection Syringe error
	85304	CC3699-25			W	2					OK	13,54,42↑ 48,76,82↓
	85305	CC3700-25			W	3					not using	BPA# only!

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 JC24133

SEMI-VOLATILE by GCMS ANALYSIS LOG

SGS ACCUTEST

Batch ID E3E3739

Print Analyst Name: Arielle Cocozza

Date: 7/19/16

Analyst Signature:

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
	see page 17	

Columns: Fused Silica 30m x 0.25mm x .25um

Method 8270D/625

Initial Cal. Method 1E3E3699

Injection Volume: 1ul

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: JR

Date: 7/22/16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution	L+	IS	SU	Status (Data)	Comments
	3E85306	BNA ver ppm AN ppm				4					not run	cut from sequence 5/16/16 3E6E
R	85307	JC23523-18	95622-1	B8014 XH	S	4			✓	✓	OK	XH
	85308	-38		XH		5			✓	✓	OK	XH
	85309	-21				6			✓	✓	OK	
	85310	JC24100-7				7			✓	✓	OK	
	85311	-5				8			5,10 ↓	✓	OK	CF1
	85312	-2				9			5,6 ↓	✓	OK	CF1
	85313	JC23523-14				10			011 ↓		not using	
	85314	-11				11			✓	✓	OK	
	85315	-37				12	10		✓	✓	OK	
	85316	-37				13			5,6 ↓	✓	OK	CF1
	85317	-34				14	5		6 ↓	✓	OK	
	85318	-34				15			5,6 ↓	✓	OK	CF1
	85319	JC24100-3		XH		16	5		6 ↓		OK	XH
	85320	-3		XH		17			5,6 ↓		OK	XH (CF1)
	85321	JC23523-3				18	10		6 ↓		OK	
	85322	-3				19	2		5,10 ↓		OK	CF1 9:54pm

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: E3E3739

Print Analyst Name: Ashley Myers

Date: 7/19/2016

Analyst Signature: AMO

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
	Sepa 8270	

Columns: RtX-5Sil MS 30m x 0.25mm x 0.25µm

Method: 8270D/625

Initial Cal. Method: M3E3699

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: JR

Date: 7/22/16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution	L+	IS	SU	Status (Data)	Comments
	3E85323	JC73470-1	95361M1	LADIOX	W	20			✓	✓	OK	(after 3E85310
	85324	JC74133-7	95633M1	LADIOX +MAP	W	21			✓	✓	OK	↓
	85325	095633-MB1		ABS270		22			✓	✓	OK	↓ 4:34pm

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 E3M2975

Print Analyst Name: Ashley M Dye

Date: 7/14/2016

Analyst Signature: AMD

Columns: Rtx-5Sil ms 30m x .25mm x .25µm

Method 8270D/625

Initial Cal. Method M3M2975Sim

Injection Volume: 1µL

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
SV161935-89	DFTPP	50 ppm
SV161935-04	SIM Internal	400 ppm
163039	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: [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	1,4Dioxane 0916177-06
	62960	-1.0		Acid.	W	12					not using	acids 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.

151

Form: OR015-07
Rev. Date: 1/19/16

7.7.4

7

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 ng
SV16193501	SIM std. internal	100 ppm
163039	DCM (Fisher)	—

Columns: 12x15 ft 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.

153

Form: OR015-07
Rev. Date: 1/19/16

7.7.5

7

SEMI-VOLATILE by GCMS ANALYSIS LOG

SGS ACCUTEST

Batch ID: E3M2979

Print Analyst Name: Julius M. Johnson

Date: 7/15/16

Analyst Signature: JMJ

Columns: Rxi5silms 30mx.25mmx.25µm

Method: 8270D/625

Initial Cal. Method: M3M2975S1A

Injection Volume: 1µl

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
SV161935-89	DFTPP	50ppm
SV161935-100	Sim Std	0.5ppm
-104	Sim IS	400ppm
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: [signature] Date: 7-18-16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution	L+	IS	SU	Status (Data)	Comments
	3M62990	DFTPP				1					ok	9:36pm
	62991	CC2975-0.5				2					ok	18↓
	62992	OP95600a-MB1	95600	ABS270		3			/	/	ok	
	62993	-BS12				4			/	/	ok	Rerun under ABSim check
	62994	-MS				5			/		not using	↓
	62995	-MSD				6			/		↓	↓
	62996	JC24133-1		BSim14D10X BSim+NAP		7			/	/	ok	Run by 8270 1:10 ~~1:20~~
	62997	-2		↓		8			/	/	ok	Run by 8270 1:20
	62998	-3				9			/	/	ok	Run by 8270 1:10
	62999	-4				10			/	/	ok	Run by 8270
	63000	-5				11			/	/	ok	Run by 8270
	63001	-6				12			/	/	ok	
	63002	JC24091-1		BSim14D10X +DM		13			/	/	ok	
	63003	JC24160-1		ASimPCP		14			/	/	ok	
	63004	-2		↓		15			/	/	ok	
	63005	OP95615a-MB1	95615	A8270		16			/		not using	not needed
	63006	-BS12				17			/		↓	↓

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.

161

Form: OR015-07
Rev. Date: 1/19/16

SEMI-VOLATILE by GCMS ANALYSIS LOG

SGS ACCUTEST

Batch ID: E3M2979

Print Analyst Name: Julius M. Johnson

Analyst Signature: JMJ

Date: 7/15/16

Columns: Rxi-5Sil ms 30m x .25mm x .25u

Method: 8270D/625

Initial Cal. Method: M3M2975SIM

Injection Volume: 1ul

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
	See Page 161	

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: JM Date: 7-18-16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution.	L+	IS	SU	Status (Data)	Comments
	3M63007	OP95615-BSP	295615	8270		18			/		Not using	Not needed
	63008	JC23944-2		ASIMPCP		19			/		Not using	Not Sim
	63009	JC24119-1		↓		20			/		Not using	Not Sim
	63010	JC23940-4		↓		21			/		Not using	0.3 Sim Rxi-5Sil MS

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: E3M2980

Print Analyst Name: Ashley M Dyk

Analyst Signature: AMD

Date: 7/18/2016

Columns: RVI5ci MS30mx.25mm x.25

Method: 8270D/625

Initial Cal. Method: M3M2975sim

Injection Volume: 1µL

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
SVI6193589	DFTTP	50 ppm
SVI6193512	A Sim std	1 ppm
SVI6193501	Sim internal	400 ppm
163039	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: [illegible]

Date: 7/22/16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution	L+	IS	SU	Status (Data)	Comments
	3M163011	DFTTP				1					OK	855AM
	63012	CC7975-1.0		BLASIM	W	2					OK	
	63013	QP95600mb1	956004	ABS270	W	3			✓	✓	OK	
	63014	-bs12				4			✓	✓	OK	
	63015	-ms				5			✓	✓	OK	
	63016	-msd				6			✓	✓	OK	
	63017	VC2407623		ABSIMNS		7			✓	✓	OK	1204pm
												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.

Form: OR015-07
Rev. Date: 1/19/16

165

7.2.7

7

SEMI-VOLATILE by GCMS ANALYSIS LOG

SGS ACCUTEST

Batch ID E3M2982

Print Analyst Name: Ashley Mdye

Analyst Signature: AMO

Date: 7/19/2016.

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
SV16A3559	DETP	50ppm
SV16A3510003	sim std.	5ppm
SV16A3510004	sim internal	400ppm
163534	DCM (Fisher)	—

Columns: Rxi5sim 30m/.25mm x .25µm

Method 8270D/625

Initial Cal. Method M3M2975sim

Injection Volume: 1mL

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: 7/22/16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution.	L+	IS	SU	Status (Data)	Comments
	3M63013	DETP				1					OK	853AM.
	63044	M2975-5		BLASim	W	2					OK	
	63045	op95633A-MB1	95633A	8270	W	3			✓	✓	OK	
	63046	-BS12				4			✓	✓	OK	
	63047	-MS				5			✓	✓	OK	
	63048	-MSD				6			✓	✓	OK	
	63049	JC24133-7		1,4D10x+ nap		7			✓	✓	OK	run by 8270.
	63050	JC24177-1		BSMNJ+ 1,4D10x		8			✓	✓	OK	
	63051	-2				9			✓	✓	OK	
	63052	-3				10			✓	✓	OK	
	63053	JC24091-1		simpah+ 1,4D10x		11			✓	✓	OK	not needed.
	63054	JC24159-1		1,4D10x sim		12			✓	✓	OK	253PM.
												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.

171

Form: OR015-07
Rev. Date: 1/19/16

7.7.8

7

SEMI-VOLATILE by GCMS ANALYSIS LOG

SGS ACCUTEST

Batch ID E3M2983

Print Analyst Name: Ashley M Dye

Date: 7/19/2016

Analyst Signature: AMD

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
SV161935B9	DFTPP	50 ppm
SV161935KU	BSIM std.	100 ppm
SV161935B	BSIM internal	400 ppm
163039	DCM (FISHER)	—

Columns: RtX5Si MS 30m x .25mm x .25µ

Method 8270D/625

Initial Cal. Method M3M2975Sim

Injection Volume: µL

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to compl with the criteria of Accutest SOP EQA044.

Supervisor Signature: [signature] Date: 7/22/16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution.	L+	IS	SU	Status (Data)	Comments
	3M63055	DFTPP				1					OK	411PM.
	63056	cc2975-1.0				2					OK	
	63057	op95249-mb1	95249-1	AB8270	W	3			✓	✓	OK	
	63058	-BS12				4			✓	✓	OK	
	63059	JC23182-4		ABSIMNST 1:4DIL	X	5			✓	✓	OK	
	63060	-13				6			✓	✓	OK	
	63061	op95631A-MB1	95631A	AB8270	W	7			✓	✓	OK	
	63062	-BSD12				8			✓	✓	OK	
	63063	-BSD12				9			✓	✓	OK	
	63064	JC23182-1		ABSIMNST 1:4DIL	X	10			✓	✓	OK	
	63065	-5				11			✓	✓	OK	
	63066	-6				12			✓	✓	OK	
	63067	-7				13			✓	✓	OK	
	63068	-9				14			✓	✓	OK	
	63069	-14				15			✓	✓	OK	
	63070	op95511A-MB1	95511A	AB8270	W	16			✓		not needed	
	63071	-BS12				17			✓			

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.

173

Form: OR015-07
Rev. Date: 1/19/16

7.7.9

7

SEMI-VOLATILE by GCMS ANALYSIS LOG

SGS ACCUTEST

Batch ID E3M 2983

Print Analyst Name: Hank Choo

Date: 7/19/16

Analyst Signature: HC

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
	see page 173	

Columns: Rxi 5Si/ms 30m x .25mm x .25µm

Method 8270D/625

Initial Cal. Method M3M2975sim

Injection Volume: 1.0µL

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: 7/22/16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution	L+	IS	SU	Status (Data)	Comments
	3M63072	OP95511A-BSD12	95511A	ABS270	W	18			✓		not needed	
	63073	JC23182-4		ABSIMNJ+		19			✓			
	63074	-8		1,4DIOX		20			✓			
	63075	-13				21			✓			
	63076	ECC 2975-1.0		BNASIM	W	2					OK	324AM
												AIQ

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

175

SEMI-VOLATILE by GCMS ANALYSIS LOG

SGS ACCUTEST

Batch ID: E5P1496

Print Analyst Name: Kristi Schellenberg

Analyst Signature: [signature]

Date: 7-1-16

Columns: Rxi-5Silms 30mx.25mm.25u

Method: 8270d/1625

Initial Cal. Method: MSP1455

Injection Volume: 1ul

Standard Data

Lot #	Description	Conc.
S16-535-92A	BNA	100ppm
S16-535-92B	↓	50ppm
S16-535-93G	↓	50ppm
S16-535-92D	↓	25ppm
S16-535-92E	↓	10ppm
S16-535-92G	↓	5ppm

Standard Data

Lot #	Description	Conc.
S15-602191	DF/MP	50ppm
S16-535-92H	BNA	2ppm
S16-535-92I	↓	1ppm
CM5732	Internal Std	4000ppm
163534	Dam (Fishe)	

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: 7-01-16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution.	L+	IS	SU	Status (Data)	Comments
	SP25325	DF/MP			W	1					ok	
	25326	IC1456-100		BNA	W	2					ok	
	25327	IC1456-2			W	3					ok	
	25328	IC1456-80			W	4					ok	
	25329	IC1456-1			W	5					ok	
	25330	IC1456-50			W	6					ok	
	25331A	IC1456-5			W	7					ok	power outage ran as "A" "A"
	25332	IC1456-25			W	8					ok	
	25333	IC1456-10			W	9					ok	

MTX = Matrix. Designate W for water, S for soil, O for oil. L+ = Library Search. IS = Internal Standard Area. SU = Surrogate.

All strikeouts must be initialed, dated, and reason applied if not transcription error

Sample volume/weight used and final volumes refer to extraction log.

Form: OR015-07
Rev. Date: 1/19/16

SEMI-VOLATILE by GCMS ANALYSIS LOG

SGS ACCUTEST

Batch ID: ESP1497

Print Analyst Name: Ashley N.

Analyst Signature: [signature]

Date: 7-01-16

Columns: Rtx-5Sil MS 30m x 25mm x 25µm

Method: 8270D/625

Initial Cal. Method: MSP1496

Injection Volume: 1µL

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
VS163791	DFTPP	50ppm
IMS932	Internal Std	4000ppm
163534	Con(SSM)	—

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: 7-3-16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution.	L+	IS	SU	Status (Data)	Comments
	SP29334	DFTPP			W	1					No	4424 reinject
	29335	DFTPP				1					ok	4:47pm
	29336	ICV1497-100		TCL42		2					ok	
	29337	-80				3					ok	
	29338	ICV 1497-50				4					ok	
	29339	ICV1497-25				5					ok	
	29340	-10				6					ok	
	29341	-5				7					ok	
	29342	-2				8					ok	
	29343	-1				9					ok	
	29344	ICV1496-50		Acid Spike		10					ok	SV161935-59 Batch
	29345	-50		Aniline Spike		11					ok	-86
	29346	-50		ABN Sur		12					ok	OP161712136
	29347	-50		BN1		13					ok	SV161935-75
	29348	-50		BN2		14					ok	-74
	29349	ICV 1497-50		Benzidine 3rd		15					ok	SV151827-385
	29350	-50		HQ		16					ok	-98P

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 E5P1500

Print Analyst Name: Ashley Hoyle

Analyst Signature: AMO

Date: 7/5/2016

Columns: Rtx5Sil MS 30m x .25mm x .25µm

Method 8270D/625

Initial Cal. Method H5PH96

Injection Volume: 1µL

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
SM518279	DFTPP	50ppm
CH5732	internal std	4000ppm
163039	DCB (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: 7/12/16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution.	L+	IS	SU	Status (Data)	Comments
	5P29396	DFTPP				1					not using	~~no~~ AMO 7/5/16 via empty Renn
	29397	DFTPP				1					not using	syringe stuck - change
	29398	DFTPP				1					OK	909AM
	29399	ICV H5PH96-50 AMO 7/5/16		BN1	W	2					OK	SV16193595
	29400	ICV H5PH96-50		BN2	W	3					OK	SV16193582 951AM
												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.

83

Form: OR015-07
Rev. Date: 1/19/16

7.7.12

7

SEMI-VOLATILE by GCMS ANALYSIS LOG

SGS ACCUTEST

Batch ID: E5P1518

Print Analyst Name: Ashley N.

Analyst Signature: [illegible]

Date: 7-18-16

Columns: Rxi Si/ms 30m x 25mm x 25µm

Method: 8270D/625

Initial Cal. Method: M5P1496

Injection Volume: 1µL

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
SV16H35-89	dfhpp	50ppm
-93E	BNA	↓
-32E	TCL42	↓
CMS732	Internal Std	400ppm
1635341	OCM (Fluka)	—

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: 7-19-16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution	L+	IS	SU	Status (Data)	Comments
	5P29753	dfhpp			W	1					OK	9:13PM
	29754	CC 1496-5D		BNA		2					OK	13↓✓ 3,4,10,20,31,39 / 86/90/93 phthalates ↑
	29755	CC 1497-5D		TCL42		3					OK	
	29756	bna ucnf-1ppm		—		4					OK	SV16H35-65F
	29757	op95610mbl	95610-1	ABB270	S	5		+	✓	✓	OK	
	29758	-DS1				6			✓	✓	OK	
	29759	OP95600A MB	95600A-1	ABB270	W	7			✓	✓	OK	
	29760	JC24133-2 (41)		SIM 1ug/L ox		8	20		✓	✓	OK	
	29761	JC24133-3	AMO 7/18/16			9	10		✓	✓	OK	
	29762	JC24133-4				10			✓	✓	OK	
	29763	JC24133-5				11			✓	✓	OK	
	29764	OP95610-MS	95610-1	ABB270	S	12			/	\	OK	
	29765	-MSD		↓		13			/	\	OK	
	29766	JC24106-1		ABTCL20 (1)		14		+	/	\	OK	
	29767	-9				15		+	/	\ 2,4-DCP	OK RR AMO 7/18/16	bis 2E ↑ in CC
	29768	-3				16		+	/	\	OK	
	29769	-5				17		+	/	\ 2,4-DCP	OK RR	bis 2E ↑ in CC

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

145

7.7.13

7

SEMI-VOLATILE by GCMS ANALYSIS LOG

SGS ACCUTEST

Batch ID: ESP1518

Print Analyst Name: Ashley N

Date: 7-18-16

Analyst Signature: [illegible]

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
	See page 145	

Columns: RxiSSilms30mx25mmx25µm

Method: 8270D/625

Initial Cal. Method: MSP1496

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: 7-19-16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution	L+	IS	SU	Status (Data)	Comments
	5P29770	JC24133-1	95600A-1	SIM14DIOX	W	18			✓	✓	OK	ran before 5P29764
	29771	JC24106-7	95610	ABTCC20	S	19			✓	✓	RR	pyrrolidines 80 90 ↑ incc
	29772	JC24090-1		↓		20		+	✓	✓	OK	
	29773	-3				21		+	✓	✓	OK	
	29774	-4				22			✓	✓	RR	bis 2e. ↑ incc
	29775	-2		↓		23			✓	✓	↓	bis 2e ↑ incc.
	29776	JC24112-1		ABTCC20		24			✓	✓	RR	bis 2e ↑ incc. 8:57pm
	29777	op95581-mb1	95581-1	AB8AO+	S	25		+	✓	✓	OK	ran after 5P29763
	29778	JC23698-4		ABTCNO		26			✓	✓	OK	RR 1:5
	29779	JC24000-1		ABTCNO+		27		+	✓	✓	OK	↓
	29780	JC24014-1		ABTCNO+		28		+	✓	✓	OK	↓
R	29781	JC23698-4		ABTCNO		29	5		✓	✓	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.

147

Form: OR015-07
Rev. Date: 1/19/16

7.7.13

7

LOGBOOK ID: 6-1748

ABN Aqueous Extraction Logbook

Date Started: 7/15/16 Time Started: 4:10pm
Date Finished: 7/15/16 Time Finished: 9:30pm

Extract Method (CHECK OFF "√" /DO NOT CIRCLE):
Separatory Funnel: SW846 3510C/CLP/other_____ 3510C SIM ✓
Continuous Liquid Liquid: SW846 3520C/CLP/other_____

BATCH # MS 95600	RACK# A-21
Extracted by:	YB, GM
Concentrated by:	SD, GM
Vialed by:	SD
Relinquished by:	
Accepted by:	
Supervisor Review:	7/15/16

Special Client Spike Instructions

QC ID# for Special Spike	Amt to Spike	Spike ID	Lot #	Conc.	Amt. Spiked

WITNESS SIGN: SPIKE SIGN:
Manager/Supervisor/Team Lead Approval:

	Sample #	Analysis Type	Sample Bottle #	Sample Description	Sample Volume (mL)	pH Adjust(mL) <2 H2SO4	pH Adjust(mL) >11 NaOH	Final Extract Color	Final Extract Vol(mL)	Misc. GPC Cleanup	Misc. Comments
	MB1	ABN		DI H2O	1000	1	4	clear	1		
	BS1			DI H2O	1000	1	4	yellow	1		
	JC 24092-1 MS		1	~~H~~ yellow	975	1	4	yellow	1		
	MSD		1	~~H~~ yellow	975	1	4	yellow	1		
	BS	12SIM		DI H2O	1000	1	4	clear	1		
	JC 24076-3 MS		2	Orange	500	1	4	clear	1		
	MSD		2	Orange	500	1	4	clear	1		
1	JC 24092-1	ABN	2	~~H~~ yellow	850	1	4	l. yellow	1		
2	-2		1	~~H~~ yellow	1000	1	4	l. yellow	1		
3	-3		2	~~H~~ yellow	1000	1	4	d. yellow	1		
4	-4		1	Brown	850	1	4	Brown	1		
5	JC 24076-3		1	Orange	1000	1	4	Clear	1		
6	JC 24091-1		2	~~H~~ yellow	950	1	4	Brown	1		
7	JC 24133-1		1	Orange	900	1	4	clear	1		
8	-2		1	~~H~~ Brown	975	1	4	clear	1		
9	-3		1	tan	900	1	4	l. yellow	1		
10	-4		1	~~H~~ Brown	900	1	4	l. yellow	1		
11	-5		1	~~H~~ Brown	875	1	4	l. yellow	1		
12	-6		1	clear	875	1	4	clear	1		
13	JC 24160-1		2	yellow	950	1	4	yellow	1		
14	-2		1	clear	975	1	4	clear	1		
15											
16											
17											
18											
19											
20											

1d TAT

1d TAT

Comments: okay to split MS/MSD & SIM MS/MSD.

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	75/75	-0.8/-0.1	74/75	N/A
Waterbath Chiller (GPM)	F8	7.1	—	—	2
NEVAP (32-38°C; LPM)					

SURROGATE	LOT #	CONC (ppm)	AMT (mL)
ABN	1617033	50ppm	1.0mL

WITNESS SIGN: GM SPIKE SIGN: SD

MATRIX SPIKE	LOT #	CONC (ppm)	AMT (mL)
Acid	16193598	50ppm	Acid: 1.0mL
Acid (for SIM)			A(SIM): 0.1mL
Base #1	16193535103	50ppm	1.0mL
Base #2	16193535105	50ppm	1.0mL
Anilines	16193556	50ppm	1.0mL
BSIM	1617092	1ppm	1.0mL

WITNESS SIGN: GM SPIKE SIGN: SD

SOLVENT	LOT #	BRAND	AMT (mL)
METH CHLOR	163534	Fisher	60X6

REAGENT	LOT #	BRAND ~~SD~~
NaOH	157991	Fisher
H2SO4	460[illegible]099	Riccca
Sodium Sulfate	157477	Fisher
Glass Wool	05926	Lab
Filter Paper		
pH strips		

SPECIAL PROCESSING INSTRUCTIONS

Rx Reason:

Spiking:

Weights/Volumes:

Required MS/MSD:

Final Volume:

Other:

SGS ACCUTEST INC.
Form: OP022A-08
Rev Date: 1/13/16

LOGBOOK ID: 6-1748

ABN Aqueous Extraction Logbook

Date Started: 07/18/2016 Time Started: 5:15pm
Date Finished: 7/18/2016 Time Finished: 11:25pm

Extract Method (CHECK OFF "√" /DO NOT CIRCLE):
Separatory Funnel: SW846 3510C/CLP/other ✓ 3510C SIM ✓
Continuous Liquid Liquid: SW846 3520C/CLP/other_____

BATCH # MS 95633 RACK# D11

Extracted by:	GM, SD, YB
Concentrated by:	SD, RF
Vialed by:	RF, AK
Relinquished by:	
Accepted by:	
Supervisor Review:	7/18/16

Special Client Spike Instructions

QC ID# for Special Spike	Amt to Spike	Spike ID	Lot #	Conc.	Amt. Spiked
		~~HQ~~			
~~BSB~~	50ml	HQ	161712 41	1000	50 ml

WITNESS SIGN: SD SPIKE SIGN: GM
Manager/Supervisor/Team Lead Approval: MDP

SPECIAL PROCESSING INSTRUCTIONS

Rx Reason:

Spiking:

Weights/Volumes:

Required MS/MSD:

Final Volume:

Other:

JC 23410-1A

	Sample #	Analysis Type	Sample Bottle #	Sample Description	Sample Volume (mL)	pH Adjust(mL) < 2 H2SO4	pH Adjust(mL) > 11 NaOH	Final Extract Color	Final Extract Vol(mL)	Misc. GPC Cleanup	Misc. Comments
	MB1	ABN		DI H2O	1000	1	4	clear	1		
	BS1			DI H2O	1000	1	4	yellow	1		
	JC 24158-2 MS		2	lt yellow	500	1	4	yellow	1		
	MSD		2	lt yellow	500	1	4	yellow	1		
	BS	2SIM		DI H2O	1000	1	4	l. yellow	1		
	JC 24177-1 MS		2	lt yellow	450	1	4	l. yellow	1		
	MSD		2	lt yellow	450	1	4	l. yellow	1		
1	JC 24154-2	ABN	4	clear	925	1	4	clear	1		
2	-6		4	clear	950	1	4	clear	1		
3	-10		4	clear	950	1	4	clear	1		
4	JC24158-2		~~2~~	yellow	~~950~~	1	4	l. yellow	1		
5	-3		2	clear	800	1	4	~~yel~~ clear	1		
6	~~JC 24166-1~~		1	lt brown	925	1	4	l. yellow	1		
7	JC 24177-1		1	clear	1000	1	4	clear	1		
8	-2		1	orange	950	1	4	l. yellow	1		
9	-3		1	orange	950	1	4	l. yellow	1		
10	JC 24017-8		1	clear	1000	1	4	clear	1		
11	JC 24091-1		3	lt yellow	925	1	4	l. yellow	1		
12	JC 24107-1		1	lt brown	1000	1	4	brown	1		
13	JC 24151-11		1	lt yellow	1000	1	4	yellow	1		
14	-12		2	orange	1000	1	4	l. yellow	1		
15	~~JC23407-1A~~										
16	~~JC 23410-1A~~										
17	JC 24155-7		1	clear	975	1	4	clear	1		
18	JC 24159-1		1	clear	950	1	4	clear	1		
19	JC 24156-1		1	lt yellow	1000	1	4	clear	1		
20	JC23410-1A ~~BS 1H~~ ~~HQ~~		1	clear	1000	1	4	l. yellow	1		

JC 24133-7 → 1d TAT

SD 7/18/16 cancelled.

Comments: line 1 is JC 24154-2. / line 15 & 16 written incorrectly.
Line 6: JC 24133-7
okay to split MS/MSD & SIM MS/MSD

21. BSB | HQ | DI H2O | 1000 | 1 | 4 | clear | 1d | 1

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	74.1, 73.8	-0.8, 0.1	73, 74	NA
Waterbath Chiller (GPM)	F2	5	–	–	2
NEVAP (32-38°C; LPM)	2	36.0	+0.1	36	10

SURROGATE	LOT #	CONC (ppm)	AMT (mL)
ABN	16177033	50ppm	1.0ml

WITNESS SIGN: SD SPIKE SIGN: GM

MATRIX SPIKE	LOT #	CONC (ppm)	AMT (mL)
Acid	16193599	50ppm	Acid: 1.0ml
Acid (for SIM)			A(SIM): 0.1mL
Base #1	161935103	50ppm	1.0mL
Base #2	161935105	50ppm	1.0ml
Anilines	161935110	50ppm	1.0ml
BSIM	16177012	1ppm	1.0ml

WITNESS SIGN: SD SPIKE SIGN: GM

SOLVENT	LOT #	BRAND	AMT (mL)
METH CHLOR	163534	Fisher	60x6

REAGENT	LOT #	BRAND
NaOH	157491	Fisher
H2SO4	46013399	Alfa
Sodium Sulfate	157477	Fisher
Glass Wool	05026	Lab
Filter Paper		
pH strips		

SGS ACCUTEST INC.
Form: OP022A-08
Rev Date: 1/13/16