October 06, 2016 Service Request No:R1607963

Ms. Ancy Sebastian
ALS Environmental - Canada
1435 Norjohn Court #1
Burlington, ON L7L 0E6

Laboratory Results for: Picatinny Arsenal

Dear Ms.Sebastian,

Enclosed are the results of the sample(s) submitted to our laboratory July 30, 2016
For your reference, these analyses have been assigned our service request number **R1607963.**

All analyses were performed according to our laboratory's quality assurance program. The test results meet requirements of the NELAP standards except as noted in the case narrative report. All results are intended to be considered in their entirety, and ALS Environmental is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report. The measurement uncertainty of the results included in this report is within that expected when using the prescribed method(s) for analysis of these samples, and represented by Laboratory Control Sample control limits. Any events, such as QC failures, which may add to the uncertainty are explained in the report narrative.

Please contact me if you have any questions. My extension is 7472. You may also contact me via email at Janice.Jaeger@alsglobal.com.

Respectfully submitted,

ALS Group USA, Corp. dba ALS Environmental

Janice Jaeger
Project Manager

ADDRESS 1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
PHONE +1 585 288 5380 | FAX +1 585 288 8475
ALS Group USA, Corp.
dba ALS Environmental

Narrative Documents

ALS Environmental—Rochester Laboratory
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
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1565 Jefferson Rd, Building 300, Rochester, NY 14623 | 585-288-5380 | www.alsglobal.com

Client: ALS Environmental - Canada
Project: Picatinny Arsenal
Sample Matrix: Water

Service Request: R1607963
Date Received: 7/30/16

CASE NARRATIVE

All analyses were performed consistent with the quality assurance program of ALS Environmental. This report contains analytical results for samples designated for Tier IV, validation deliverables including all summary forms and associated raw data. Analytical procedures performed by the lab are validated in accordance with NELAC standards. Any parameters that are not included in the lab's NELAC accreditation are identified on a "Non-Certified Analytes" report in the Miscellaneous Forms Section of this report. Individual analytical results requiring further explanation are flagged with qualifiers and/or discussed below. The flags are explained in the Report Qualifiers and Definitions page in the Miscellaneous Forms section of this report.

Sample Receipt

Twenty four water and 2 soil samples were received for analysis at ALS Environmental on 07/30/2016. Any discrepancies noted upon initial sample inspection are noted on the cooler receipt and preservation form included in this data package. The samples were received in good condition and consistent with the accompanying chain of custody form. Samples are refrigerated at ≤6°C upon receipt at the lab except for aqueous samples designated for metals analyses, which are stored at room temperature.

Volatile Organic Analyses:

Method 8260c, R1607963-017: The control limits were exceeded for one or more surrogates due to matrix interferences. A re-extraction and reanalysis was performed, but produced similar results. No further corrective action was required.

Semi-Volatile Organic Analyses:

No significant anomalies were noted with this analysis.

General Chemistry Analyses:

No significant anomalies were noted with this analysis.

Sample Receiving Notes:

Method 8260C: soil samples included in this report were received in jars and not collected using one of the EPA method 5035A low level options. In accordance with the NYSDOH technical notice of October 2012 all results or reporting limits <200 ug/kg should be considered as estimated due to potential low bias.

Approved by _____ Date 10/6/2016

SAMPLE DETECTION SUMMARY

CLIENT ID: PY-1011	Lab ID: R1607963-001					
Analyte	**Results**	**Flag**	**MDL**	**PQL**	**Units**	**Method**
Solids, Total	2060			50	mg/L	SM 2540 B-
Solids, Total Dissolved (TDS)	1960		18	50	mg/L	SM 2540 C-
Solids, Total Suspended (TSS)	4.5			1.4	mg/L	SM 2540 D-

CLIENT ID: PY-2019	Lab ID: R1607963-010					
Analyte	**Results**	**Flag**	**MDL**	**PQL**	**Units**	**Method**
Solids, Total	864			20	mg/L	SM 2540 B-
Solids, Total Dissolved (TDS)	848		8	20	mg/L	SM 2540 C-
Solids, Total Suspended (TSS)	7.5			1.3	mg/L	SM 2540 D-

CLIENT ID: PY-2020	Lab ID: R1607963-011					
Analyte	**Results**	**Flag**	**MDL**	**PQL**	**Units**	**Method**
Solids, Total	846			20	mg/L	SM 2540 B-
Solids, Total Dissolved (TDS)	834		8	20	mg/L	SM 2540 C-
Solids, Total Suspended (TSS)	9.1			1.5	mg/L	SM 2540 D-

CLIENT ID: PY-3005B	Lab ID: R1607963-016					
Analyte	**Results**	**Flag**	**MDL**	**PQL**	**Units**	**Method**
1,2-Dichlorobenzene	69	J	36	330	ug/Kg	8270D

CLIENT ID: PY-3006B	Lab ID: R1607963-017					
Analyte	**Results**	**Flag**	**MDL**	**PQL**	**Units**	**Method**
Trichloroethene (TCE)	6.7		1.1	5.0	ug/Kg	8260C
Benzene	31		1.5	25	ug/Kg	8260C

CLIENT ID: PY-3011	Lab ID: R1607963-018					
Analyte	**Results**	**Flag**	**MDL**	**PQL**	**Units**	**Method**
Solids, Total	932			20	mg/L	SM 2540 B-
Solids, Total Dissolved (TDS)	894		8	20	mg/L	SM 2540 C-
Solids, Total Suspended (TSS)	14.4			1.4	mg/L	SM 2540 D-

CLIENT ID: PY-3013	Lab ID: R1607963-020					
Analyte	**Results**	**Flag**	**MDL**	**PQL**	**Units**	**Method**
Benzene	0.34	J	0.20	1.0	ug/L	8260C

Sample Receipt Information

ALS Environmental—Rochester Laboratory
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com

SAMPLE CROSS-REFERENCE

SAMPLE #	CLIENT SAMPLE ID	DATE	TIME
R1607963-001	PY-1011	7/27/2016	1930
R1607963-002	PY-1012	7/27/2016	1930
R1607963-003	PY-1013	7/27/2016	1930
R1607963-004	PY-1014	7/27/2016	1730
R1607963-005	PY-1017	7/27/2016	2005
R1607963-006	PY-1018	7/27/2016	2015
R1607963-007	T1R1-TB1	7/27/2016	0800
R1607963-008	PY-2009C	7/28/2016	1800
R1607963-009	PY-2010C	7/28/2016	1800
R1607963-010	PY-2019	7/28/2016	1705
R1607963-011	PY-2020	7/28/2016	1705
R1607963-012	PY-2021	7/28/2016	1705
R1607963-013	PY-2022	7/28/2016	1705
R1607963-014	PY-2027	7/28/2016	1810
R1607963-015	PY-2028	7/28/2016	1810
R1607963-016	PY-3005B	7/29/2016	1545
R1607963-017	PY-3006B	7/29/2016	1545
R1607963-018	PY-3011	7/29/2016	1525
R1607963-019	PY-3012	7/29/2016	1525
R1607963-020	PY-3013	7/29/2016	1525
R1607963-021	PY-3016	7/29/2016	1555
R1607963-022	PY-3017	7/29/2016	1555
R1607963-023	PY-1027	7/27/2016	1935
R1607963-024	PY-1028	7/27/2016	1930
R1607963-025	PY-2037	7/28/2016	1715
R1607963-026	PY-3026	7/29/2016	1510

ANALYSIS REQUEST AND CHAIN-OF-CUSTODY RECORD

REFERENCE COC NO.: T1-001-NY

PAGE 1 OF 2

Bill To: CBI Federal Services
Accounts Payable

Project Name/No: Picatinny Arsenal
Sample Team Member: J. McGee, G. Britt, D. Jarvis, G. Ward
Project Manager: Berani Halley
Purchase Order No.:
Required Report Date: **Normal**

Sample Shipment Date: **7/29/2016**
Laboratory Destination: ALS-NY
Laboratory Contact: Ancy Sebastian
Project Contact/Phone: Joyce McGee 865-850-7306
Carrier Waybill No.: **Lab Courier**

Report To: CBI Federal Services
Joyce McGee
2410 Cherahala Drive
Knoxville, TN 37932

Sample Number	Analytical QC	Sample Type/ Description	Date/Time Collected	Container Type	Pre-servative	Requested Testing Program	Sample Notes / Expectations	Disposal Record
PY-1011		Scrubber purge water	7/27/2016 1930	1-L Amber Boston Round	Cool, 4C	TDS, TSS, TS		
PY-1012		Scrubber purge water	7/27/2016 1930	1-L Amber Boston Round	Cool, 4C	Semivolatile POHC (1,2-DCB)		
PY-1013		Scrubber purge water	7/27/2016 1930	40-ml VOA vials with HCl	Cool, 4C & HCl	Volatile POHC (TCE)	Composite (3 sets of VOA vials. Composite into one VOC sample	
PY-1014		Caustic feed	7/27/2016 1730	1-L Amber Boston Round	Cool, 4C	Semivolatile POHC (1,2-DCB) **ARCHIVE**	Handle with Care - Caustic materials	
PY-1017		1,2-DCB POHC Spike Solution	7/27/2016 2005	40-ml VOA vials, NO PRESERVATIVE	Cool, 4C	Semivolatile POHC (1,2-DCB) **ARCHIVE**		
PY-1018		TCE POHC Spike Solution	7/27/2016 2015	40-ml VOA vials, NO PRESERVATIVE	Cool, 4C	Volatile POHC (TCE) **ARCHIVE**		

Special Instructions: Report MS/MSDs as "Sample Number-MS" and "Sample Number-MSD". For Example: PY-2021- and PY-2021-MSD.

Possible Hazard Identification:
Non-haz: ___ Flammable: x Poison B: ___ Unknown: X

Sample Disposal:
Return to Client: ___ Disposal by Lab: X Archive: ___

Turnaround Time:
Normal: X Rush: ___

Level of QC Required:
I. ___ II. ___ III. ___ Project Specific: X (talk to A. Sebastian)

1. Relinquished by: J. McGee, CB&I Federal Services Date: 7/29/16 Time: 2100
1. Received by: Greg Burdell Date: 29-JULY-16 Time: 21:00
2. Relinquished by: Date: Time:
2. Received by: Date: 7/30/16 Time: 1345

Comments: **If samples not received in good condition contact Joyce McGee (865)-850-7306 immediately.**

R1607963 5
ALS Environmental - Canada
Picatinny Arsenal

Reference COC Number: T1-001-NY

ANALYSIS REQUEST AND CHAIN-OF-CUSTODY RECORD (Cont.)

Project Name/No.: Picatinny Arsenal

Laboratory Destination: ALS-NY

Sample Number	Analy QC	Sample Type/ Description	Date/Time Collected	Container Type	Pre-servative	Requested Testing Program	Sample Notes / Expectations	Disposal Record
T1R1-TB1		Trip Blank	7/27/2016 0800	40 mL VOA Vial w HCL	Cool, 4C & HCl	Volatile POHC (TCE)		
PY-2009C	MS/MSD	Quench Ash	7/28/2016 1800	250mL WM glass	Cool, 4C	Semivolatile POHC (1,2-DCB)		
PY-2010C	MS/MSD	Quench Ash	7/28/2016 1800	120mL WM glass	Cool, 4C	Volatile POHC (TCE)		
PY-2019		Scrubber purge water	7/28/2016 1705	1-L Amber Boston Round	Cool, 4C	TDS, TSS, TS		
PY-2020		Scrubber purge water	7/28/2016 1705	1-L Amber Boston Round	Cool, 4C	TDS, TSS, TS		
PY-2021	MS/MSD	Scrubber purge water	7/28/2016 1705	1-L Amber Boston Round	Cool, 4C	Semivolatile POHC (1,2-DCB)		
PY-2022	MS/MSD	Scrubber purge water	7/28/2016 1705	40 mL VOA Vial w HCL	Cool, 4C	Volatile POHC (TCE)	Composite (3 sets of VOA vials. Composite all into one VOC sample	
PY-2027		1,2-DCB POHC Spike Solution	7/28/2016 1810	40-ml VOA vials, NO PRESERVATIVE	Cool, 4C	Semivolatile POHC (1,2-DCB) **ARCHIVE**		
PY-2028		TCE POHC Spike Solution	7/28/2016 1810	40-ml VOA vials, NO PRESERVATIVE	Cool, 4C	Volatile POHC (TCE) **ARCHIVE**		
PY-3005B	MS/MSD	Kiln Ash	7/29/2016 1545	250mL WM glass	Cool, 4C	Semivolatile POHC (1,2-DCB)		
PY-3006B	MS/MSD	Kiln Ash	7/29/2016 1545	120mL WM glass	Cool, 4C	Volatile POHC (TCE)		
PY-3011		Scrubber purge water	7/29/2016 1525	1-L Amber Boston Round	Cool, 4C	TDS, TSS, TS		
PY-3012		Scrubber purge water	7/29/2016 1525	1-L Amber Boston Round	Cool, 4C	Semivolatile POHC (1,2-DCB)		
PY-3013		Scrubber purge water	7/29/2016 1525	40 mL VOA Vial w HCL	Cool, 4C	Volatile POHC (TCE)	Composite (3 sets of VOA vials. Composite all into one VOC sample	
PY-3016		1,2-DCB POHC Spike Solution	7/29/2016 1555	40-ml VOA vials, NO PRESERVATIVE	Cool, 4C	Semivolatile POHC (1,2-DCB) **ARCHIVE**		
PY-3017		TCE POHC Spike Solution	7/29/2016 1555	40-ml VOA vials, NO PRESERVATIVE	Cool, 4C	Volatile POHC (TCE) **ARCHIVE**		

ANALYSIS REQUEST AND CHAIN-OF-CUSTODY RECORD

REFERENCE COC NO.: T1-001-VOST-NY

PAGE 1 OF 1

Bill To: CBI Federal Services
Accounts Payable

Project Name/No: Picatinny Arsenal
Sample Team Member: J. Dishner, G. Britt, D. Jarvis
Project Manager: Berani Halley
Purchase Order No.:
Required Report Date: **Normal**

Sample Shipment Date: **7/29/2016**
Laboratory Destination: ALS-NY
Laboratory Contact: Ancy Sebastian
Project Contact/Phone: Joyce McGee 865-850-7306
Carrier Waybill No.: **Lab Courier**

Report To: CBI Federal Services
Joyce McGee
2410 Cherahala Drive
Knoxville, TN 37932

Sample Number	Analytical QC	Sample Type/ Description	Date/Time Collected	Container Type	Pre-servative	Requested Testing Program	Sample Notes / Expectations	Disposal Record
PY-1027		VOST Condensate	7/27/2016 1935	40 mL VOA Vial	Cool, 4C	Volatile POHC (TCE+Benzene)		
PY-1028		**QC Trip Blank** - DI Water	7/27/2016 1930	40 mL VOA Vial	Cool, 4C	Volatile POHC (TCE+Benzene)		
PY-2037		VOST Condensate	7/28/2016 1715	40 mL VOA Vial	Cool, 4C	Volatile POHC (TCE+Benzene)		
PY-3026		VOST Condensate	7/29/2016 1510	40 mL VOA Vial	Cool, 4C	Volatile POHC (TCE+Benzene)		

Special Instructions:

R1607963 5
ALS Environmental - Canada
Picatinny Arsenal

Possible Hazard Identification:
Non-haz: ___ Flammable: ___ Poison B: ___ Unknown: X

Sample Disposal:
Return to Client: ___ Disposal by La

Turnaround Time:
Normal: X Rush: ___

Level of QC Required:
I. ___ II. ___ III. ___ Project Specific: X (talk to A. Sebastian)

1. Relinquished by: J. McGee, CB&I Federal Services — Date: 7/29/16 — Time: 2100
1. Received by: Guy Baydell — Date: 29-JULY-16 — Time: 21:00
2. Relinquished by: — Date: — Time:
2. Received by: — Date: 7/30/16 — Time: 1345

Comments: **If samples not received in good condition contact Joyce McGee (865)-850-7306 immediately.**

R1607963 5

ALS Environmental - Canada
Picatinny Arsenal

Cooler Receipt and Preservation Check Form

Project/Client ALS Folder Number _____.

Cooler received on ~~7/29/16~~ 7/30/16 by: SLW

COURIER: ALS UPS FEDEX VELOCITY CLIENT

1	Were Custody seals on outside of cooler?	Y N	5a	Perchlorate samples have required headspace?	Y N NA
2	Custody papers properly completed (ink, signed)?	Y N	5b	Did VOA vials, Alk,or Sulfide have sig* bubbles?	Y N NA
3	Did all bottles arrive in good condition (unbroken)?	Y N	6	Where did the bottles originate? ALS/ROC CLIENT	
4	Circle: Wet Ice Dry Ice Gel packs present?	Y N	7	Soil VOA received as: Bulk Encore 5035set NA	

8. Temperature Readings Date: 7/30/16 Time: 1443 ID: IR#5 IR#6 From: Temp Blank Sample Bottle

Observed Temp (°C)	4.7 C	3.4 C	5.8 C	3.6 C	4.0 C	4.6 C	3.6 C
Correction Factor (°C)	+0.0	+0.0	+0.0	+0.0	+0.0	+0.0	+0.0
Corrected Temp (°C)	4.7	3.4	5.8	3.6	4.0	4.6	3.6
Within 0-6°C?	Y N	Y N	Y N	Y N	Y N	Y N	Y N
If <0°C, were samples frozen?	Y N	Y N	Y N	Y N	Y N	Y N	Y N

If out of Temperature, note packing/ice condition: _____ Ice melted Poorly Packed Same Day Rule

&Client Approval to Run Samples: _____ Standing Approval Client aware at drop-off Client notified by: _____

All samples held in storage location: R-012 by SLW on 7/30/16 at 1443
5035 samples placed in storage location: _____ by _____ on _____ at _____

Cooler Breakdown: Date: 8-1-16 Time: 13/3 by: TS

1. Were all bottle labels complete (*i.e.* analysis, preservation, etc.)? YES NO
2. Did all bottle labels and tags agree with custody papers? YES NO
3. Were correct containers used for the tests indicated? YES NO
4. Air Samples: Cassettes / Tubes Intact Canisters Pressurized Tedlar® Bags Inflated N/A

Explain any discrepancies:

pH	Reagent	Yes	No	Lot Received	Exp	Sample ID	Vol. Added	Lot Added	Final pH
≥12	NaOH								
≤2	HNO_3								
≤2	H_2SO_4								
<4	$NaHSO_4$								
Residual Chlorine (-)	For CN Phenol and 522			If +, contact PM to add $Na_2S_2O_3$ (CN), ascorbic (phenol).					
	$Na_2S_2O_3$	-	-						
	ZnAcetate	-	-						
	HCl	**	**						

Yes=All samples OK

No=Samples were preserved at The lab as listed

PM OK to Adjust: _____

**Not to be tested before analysis – pH tested and recorded by VOAs on a separate worksheet

Bottle lot numbers: Client bottles

Other Comments:

CLRES	BULK
DO	FLDT
HPROD	HGFB
HTR	LL3541
PH	SUB
SO3	MARRS
ALS	REV

PC Secondary Review: JMS 8/1/16

*significant air bubbles: VOA > 5-6 mm : WC >1 in. diameter

ALS Group USA, Corp.
dba ALS Environmental

Internal Chain of Custody Report

Client: ALS Environmental - Canada **Service Request:** R1607963
Project: Picatinny Arsenal

Bottle ID	Methods	Date	Time	Sample Location / User	Disposed On
R1607963-001.01					
	SM 2540 B-1997(2011),SM 2540 C-1997(2011)				
		8/1/2016	1349	SMO / GESMERIAN	
		8/1/2016	1407	R-002 / GESMERIAN	
		8/2/2016	0917	In Lab / KWONG	
		8/2/2016	1602	R-002 / ROCHESTER SMO	
R1607963-001.03					
	SM 2540 D-1997(2011)				
		8/1/2016	1349	SMO / GESMERIAN	
		8/1/2016	1407	R-002 / GESMERIAN	
		8/1/2016	1409	R-002 / GESMERIAN	
		8/3/2016	1312	In Lab / KWONG	
		8/3/2016	1502	R-Dumpster / KWONG	
R1607963-002.01					
	8270D				
		8/1/2016	1349	SMO / GESMERIAN	
		8/1/2016	1407	R-002 / GESMERIAN	
		8/1/2016	1409	R-002 / GESMERIAN	
		8/2/2016	0738	In Lab / DMURPHY	
R1607963-003.01					
	8260C				
		8/1/2016	1349	SMO / GESMERIAN	
		8/1/2016	1407	R-001 / GESMERIAN	
		8/2/2016	1129	In Lab / DLIPANI	
		8/2/2016	1835	R-001-S11 / DLIPANI	
R1607963-003.02					
		8/1/2016	1349	SMO / GESMERIAN	
		8/1/2016	1407	R-001 / GESMERIAN	
		8/2/2016	1129	In Lab / DLIPANI	
R1607963-003.03					
		8/1/2016	1349	SMO / GESMERIAN	
		8/1/2016	1407	R-001 / GESMERIAN	
R1607963-003.04					
		8/1/2016	1354	SMO / GESMERIAN	
		8/1/2016	1407	R-001 / GESMERIAN	
R1607963-003.05					
		8/1/2016	1354	SMO / GESMERIAN	

Client: ALS Environmental - Canada **Service Request:** R1607963
Project: Picatinny Arsenal

Bottle ID	Methods	Date	Time	Sample Location / User	Disposed On
		8/1/2016	1407	R-001 / GESMERIAN	
R1607963-003.06					
		8/1/2016	1354	SMO / GESMERIAN	
		8/1/2016	1407	R-001 / GESMERIAN	
R1607963-004.01					
		8/1/2016	1349	SMO / GESMERIAN	
		8/1/2016	1407	R-002 / GESMERIAN	
		8/1/2016	1409	R-002 / GESMERIAN	
		8/2/2016	0738	In Lab / DMURPHY	
R1607963-005.01					
		8/1/2016	1349	SMO / GESMERIAN	
		8/1/2016	1407	R-002 / GESMERIAN	
R1607963-006.01					
		8/1/2016	1349	SMO / GESMERIAN	
		8/1/2016	1407	R-002 / GESMERIAN	
		8/1/2016	1520	R-001 / GESMERIAN	
R1607963-007.01					
	8260C				
		8/1/2016	1349	SMO / GESMERIAN	
		8/1/2016	1407	R-001 / GESMERIAN	
		8/2/2016	1129	In Lab / DLIPANI	
		8/2/2016	1834	R-001-S11 / DLIPANI	
R1607963-008.01					
	8270D				
		8/1/2016	1349	SMO / GESMERIAN	
		8/1/2016	1407	R-002 / GESMERIAN	
		8/2/2016	0741	In Lab / DMURPHY	
R1607963-009.01					
	8260C				
		8/1/2016	1349	SMO / GESMERIAN	
		8/1/2016	1407	R-002 / GESMERIAN	
		8/2/2016	1130	In Lab / DLIPANI	
		8/2/2016	1835	R-001-S11 / DLIPANI	
R1607963-010.01					
	SM 2540 B-1997(2011),SM 2540 C-1997(2011)				
		8/1/2016	1349	SMO / GESMERIAN	

Client: ALS Environmental - Canada **Service Request:** R1607963
Project: Picatinny Arsenal

Bottle ID	Methods	Date	Time	Sample Location / User	Disposed On
	SM 2540 B-1997(2011),SM 2540 C-1997(2011)				
		8/1/2016	1407	R-002 / GESMERIAN	
		8/2/2016	0917	In Lab / KWONG	
		8/2/2016	1602	R-002 / ROCHESTER SMO	
R1607963-010.03					
	SM 2540 D-1997(2011)				
		8/1/2016	1349	SMO / GESMERIAN	
		8/1/2016	1409	R-002 / GESMERIAN	
		8/3/2016	1312	In Lab / KWONG	
		8/3/2016	1501	R-Dumpster / KWONG	
R1607963-011.01					
	SM 2540 B-1997(2011),SM 2540 C-1997(2011)				
		8/1/2016	1349	SMO / GESMERIAN	
		8/1/2016	1407	R-002 / GESMERIAN	
		8/2/2016	0917	In Lab / KWONG	
		8/2/2016	1602	R-002 / ROCHESTER SMO	
R1607963-011.03					
	SM 2540 D-1997(2011)				
		8/1/2016	1349	SMO / GESMERIAN	
		8/1/2016	1409	R-002 / GESMERIAN	
		8/4/2016	1017	In Lab / KWONG	
		8/4/2016	1601	R-Dumpster / EDOWDY	
R1607963-012.01					
	8270D				
		8/1/2016	1349	SMO / GESMERIAN	
		8/1/2016	1407	R-002 / GESMERIAN	
		8/1/2016	1409	R-002 / GESMERIAN	
		8/2/2016	0738	In Lab / DMURPHY	
R1607963-012.02					
		8/1/2016	1359	SMO / GESMERIAN	
		8/1/2016	1407	R-002 / GESMERIAN	
		8/1/2016	1409	R-002 / GESMERIAN	
		8/2/2016	0738	In Lab / DMURPHY	
R1607963-012.03					
		8/1/2016	1359	SMO / GESMERIAN	
		8/1/2016	1407	R-002 / GESMERIAN	
		8/1/2016	1409	R-002 / GESMERIAN	
		8/2/2016	0738	In Lab / DMURPHY	
R1607963-013.01					

Client: ALS Environmental - Canada **Service Request:** R1607963
Project: Picatinny Arsenal

Bottle ID	Methods	Date	Time	Sample Location / User	Disposed On
	8260C				
		8/1/2016	1349	SMO / GESMERIAN	
		8/1/2016	1407	R-001 / GESMERIAN	
		8/2/2016	1129	In Lab / DLIPANI	
		8/2/2016	1834	R-001-S11 / DLIPANI	
R1607963-013.02					
		8/1/2016	1349	SMO / GESMERIAN	
		8/1/2016	1407	R-001 / GESMERIAN	
R1607963-013.03					
		8/1/2016	1349	SMO / GESMERIAN	
		8/1/2016	1407	R-001 / GESMERIAN	
R1607963-013.04					
		8/1/2016	1359	SMO / GESMERIAN	
		8/1/2016	1407	R-001 / GESMERIAN	
R1607963-013.05					
		8/1/2016	1359	SMO / GESMERIAN	
		8/1/2016	1407	R-001 / GESMERIAN	
R1607963-013.06					
		8/1/2016	1359	SMO / GESMERIAN	
		8/1/2016	1407	R-001 / GESMERIAN	
R1607963-013.07					
		8/1/2016	1359	SMO / GESMERIAN	
		8/1/2016	1407	R-001 / GESMERIAN	
R1607963-013.08					
		8/1/2016	1359	SMO / GESMERIAN	
		8/1/2016	1407	R-001 / GESMERIAN	
R1607963-013.09					
		8/1/2016	1359	SMO / GESMERIAN	
		8/1/2016	1407	R-001 / GESMERIAN	
R1607963-013.10					
		8/1/2016	1359	SMO / GESMERIAN	

Client: ALS Environmental - Canada **Service Request:** R1607963
Project: Picatinny Arsenal

Bottle ID	Methods	Date	Time	Sample Location / User	Disposed On
		8/1/2016	1407	R-001 / GESMERIAN	
R1607963-013.11					
		8/1/2016	1359	SMO / GESMERIAN	
		8/1/2016	1407	R-001 / GESMERIAN	
R1607963-013.12					
		8/1/2016	1359	SMO / GESMERIAN	
		8/1/2016	1407	R-001 / GESMERIAN	
R1607963-013.13					
		8/1/2016	1359	SMO / GESMERIAN	
		8/1/2016	1407	R-001 / GESMERIAN	
R1607963-013.14					
		8/1/2016	1359	SMO / GESMERIAN	
		8/1/2016	1407	R-001 / GESMERIAN	
R1607963-013.15					
		8/1/2016	1359	SMO / GESMERIAN	
		8/1/2016	1407	R-001 / GESMERIAN	
R1607963-013.16					
		8/1/2016	1359	SMO / GESMERIAN	
		8/1/2016	1407	R-001 / GESMERIAN	
R1607963-013.17					
		8/1/2016	1359	SMO / GESMERIAN	
		8/1/2016	1407	R-001 / GESMERIAN	
R1607963-013.18					
		8/1/2016	1359	SMO / GESMERIAN	
		8/1/2016	1407	R-001 / GESMERIAN	
R1607963-014.01					
		8/1/2016	1349	SMO / GESMERIAN	
		8/1/2016	1407	R-002 / GESMERIAN	
R1607963-015.01					

Client: ALS Environmental - Canada **Service Request:** R1607963
Project: Picatinny Arsenal

Bottle ID	Methods	Date	Time	Sample Location / User	Disposed On
		8/1/2016	1349	SMO / GESMERIAN	
		8/1/2016	1407	R-002 / GESMERIAN	
		8/1/2016	1520	R-001 / GESMERIAN	
R1607963-016.01					
	8270D				
		8/1/2016	1349	SMO / GESMERIAN	
		8/1/2016	1407	R-002 / GESMERIAN	
		8/3/2016	1149	In Lab / MROGERSON	
		8/3/2016	1319	R-002 / ROCHESTER SMO	
R1607963-017.01					
	8260C,8260C				
		8/1/2016	1349	SMO / GESMERIAN	
		8/1/2016	1407	R-002 / GESMERIAN	
		8/1/2016	1526	R-010 / GESMERIAN	
		8/2/2016	0915	In Lab / FNAEGLER	
		8/4/2016	1006	In Lab / FNAEGLER	
		8/4/2016	1345	R-010 / DLIPANI	
		8/6/2016	1556	In Lab / FNAEGLER	
		8/6/2016	1741	R-010 / FNAEGLER	
R1607963-018.01					
	SM 2540 B-1997(2011),SM 2540 C-1997(2011)				
		8/1/2016	1349	SMO / GESMERIAN	
		8/1/2016	1407	R-002 / GESMERIAN	
		8/2/2016	0917	In Lab / KWONG	
		8/2/2016	1602	R-002 / ROCHESTER SMO	
R1607963-018.03					
	SM 2540 D-1997(2011)				
		8/1/2016	1349	SMO / GESMERIAN	
		8/1/2016	1409	R-002 / GESMERIAN	
		8/4/2016	1017	In Lab / KWONG	
		8/4/2016	1601	R-Dumpster / EDOWDY	
R1607963-019.01					
	8270D				
		8/1/2016	1349	SMO / GESMERIAN	
		8/1/2016	1407	R-002 / GESMERIAN	
		8/1/2016	1409	R-002 / GESMERIAN	
		8/2/2016	0738	In Lab / DMURPHY	
R1607963-020.01					
	8260C				
		8/1/2016	1349	SMO / GESMERIAN	

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Internal Chain of Custody Report

Client: ALS Environmental - Canada **Service Request:** R1607963
Project: Picatinny Arsenal

Bottle ID	Methods	Date	Time	Sample Location / User	Disposed On
	8260C				
		8/1/2016	1407	R-001 / GESMERIAN	
		8/2/2016	1129	In Lab / DLIPANI	
		8/2/2016	1834	R-001-S11 / DLIPANI	
R1607963-020.02					
		8/1/2016	1349	SMO / GESMERIAN	
		8/1/2016	1407	R-001 / GESMERIAN	
R1607963-020.03					
		8/1/2016	1349	SMO / GESMERIAN	
		8/1/2016	1407	R-001 / GESMERIAN	
R1607963-020.04					
		8/1/2016	1403	SMO / GESMERIAN	
		8/1/2016	1407	R-001 / GESMERIAN	
R1607963-020.05					
		8/1/2016	1403	SMO / GESMERIAN	
		8/1/2016	1407	R-001 / GESMERIAN	
R1607963-020.06					
		8/1/2016	1403	SMO / GESMERIAN	
		8/1/2016	1407	R-001 / GESMERIAN	
R1607963-021.01					
		8/1/2016	1349	SMO / GESMERIAN	
		8/1/2016	1407	R-002 / GESMERIAN	
R1607963-022.01					
		8/1/2016	1349	SMO / GESMERIAN	
		8/1/2016	1407	R-002 / GESMERIAN	
		8/1/2016	1520	R-001 / GESMERIAN	
R1607963-023.01					
	8260C				
		8/1/2016	1349	SMO / GESMERIAN	
		8/1/2016	1407	R-001 / GESMERIAN	
		8/2/2016	1130	In Lab / DLIPANI	
		8/2/2016	1835	R-001-S11 / DLIPANI	
R1607963-024.01					

ALS Group USA, Corp.
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Internal Chain of Custody Report

Client: ALS Environmental - Canada **Service Request:** R1607963
Project: Picatinny Arsenal

Bottle ID	Methods	Date	Time	Sample Location / User	Disposed On
	8260C				
		8/1/2016	1349	SMO / GESMERIAN	
		8/1/2016	1407	R-001 / GESMERIAN	
		8/2/2016	1130	In Lab / DLIPANI	
		8/2/2016	1838	R-001-S11 / DLIPANI	
R1607963-025.01					
	8260C				
		8/1/2016	1349	SMO / GESMERIAN	
		8/1/2016	1407	R-001 / GESMERIAN	
		8/2/2016	1129	In Lab / DLIPANI	
		8/2/2016	1834	R-001-S11 / DLIPANI	
R1607963-026.01					
	8260C				
		8/1/2016	1349	SMO / GESMERIAN	
		8/1/2016	1407	R-001 / GESMERIAN	
		8/2/2016	1129	In Lab / DLIPANI	
		8/2/2016	1834	R-001-S11 / DLIPANI	

Miscellaneous Forms

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REPORT QUALIFIERS AND DEFINITIONS

U Analyte was analyzed for but not detected. The sample quantitation limit has been corrected for dilution and for percent moisture, unless otherwise noted in the case narrative.

J Estimated value due to either being a Tentatively Identified Compound (TIC) or that the concentration is between the MRL and the MDL. Concentrations are not verified within the linear range of the calibration. For DoD: concentration >40% difference between two GC columns (pesticides/Arclors).

B Analyte was also detected in the associated method blank at a concentration that may have contributed to the sample result.

E Inorganics- Concentration is estimated due to the serial dilution was outside control limits.

E Organics- Concentration has exceeded the calibration range for that specific analysis.

D Concentration is a result of a dilution, typically a secondary analysis of the sample due to exceeding the calibration range or that a surrogate has been diluted out of the sample and cannot be assessed.

* Indicates that a quality control parameter has exceeded laboratory limits. Under the ñNotesò column of the Form I, this qualifier denotes analysis was performed out of Holding Time.

H Analysis was performed out of hold time for tests that have an ñimmediateò hold time criteria.

Spike was diluted out.

+ Correlation coefficient for MSA is <0.995.

N Inorganics- Matrix spike recovery was outside laboratory limits.

N Organics- Presumptive evidence of a compound (reported as a TIC) based on the MS library search.

S Concentration has been determined using Method of Standard Additions (MSA).

W Post-Digestion Spike recovery is outside control limits and the sample absorbance is <50% of the spike absorbance.

P Concentration >40% (25% for CLP) difference between the two GC columns.

C Confirmed by GC/MS

Q DoD reports: indicates a pesticide/Aroclor is not confirmed (Ó100% Difference between two GC columns).

X See Case Narrative for discussion.

MRL Method Reporting Limit. Also known as:
LOQ Limit of Quantitation (LOQ)
The lowest concentration at which the method analyte may be reliably quantified under the method conditions.

MDL Method Detection Limit. A statistical value derived from a study designed to provide the lowest concentration that will be detected 99% of the time. Values between the MDL and MRL are estimated (see J qualifier).

LOD Limit of Detection. A value at or above the MDL which has been verified to be detectable.

ND Non-Detect. Analyte was not detected at the concentration listed. Same as U qualifier.

Rochester Lab ID # for State Certifications[1]

Connecticut ID # PH0556	Maine ID #NY0032	New Hampshire ID # 294100 A/B
Delaware Accredited	Nebraska Accredited	
DoD ELAP #65817	New Jersey ID # NY004	Pennsylvania ID# 68-786
Florida ID # E87674	New York ID # 10145	Rhode Island ID # 158
Illinois ID #200047	North Carolina #676	Virginia #460167

[1] Analyses were performed according to our laboratoryôs NELAP-approved quality assurance program and any applicable state or agency requirements. The test results meet requirements of the current NELAP/TNI standards or state or agency requirements, where applicable, except as noted in the case narrative. Since not all analyte/method/matrix combinations are offered for state/NELAC accreditation, this report may contain results which are not accredited. For a specific list of accredited analytes, contact the laboratory or go to http://www.alsglobal.com/en/Our-Services/Life-Sciences/Environmental/Downloads/North-America-Downloads

Acronyms

ASTM	American Society for Testing and Materials
A2LA	American Association for Laboratory Accreditation
CARB	California Air Resources Board
CAS Number	Chemical Abstract Service registry Number
CFC	Chlorofluorocarbon
CFU	Colony-Forming Unit
DEC	Department of Environmental Conservation
DEQ	Department of Environmental Quality
DHS	Department of Health Services
DOE	Department of Ecology
DOH	Department of Health
EPA	U. S. Environmental Protection Agency
ELAP	Environmental Laboratory Accreditation Program
GC	Gas Chromatography
GC/MS	Gas Chromatography/Mass Spectrometry
LUFT	Leaking Underground Fuel Tank
M	Modified
MCL	Maximum Contaminant Level is the highest permissible concentration of a substance allowed in drinking water as established by the USEPA.
MDL	Method Detection Limit
MPN	Most Probable Number
MRL	Method Reporting Limit
NA	Not Applicable
NC	Not Calculated
NCASI	National Council of the Paper Industry for Air and Stream Improvement
ND	Not Detected
NIOSH	National Institute for Occupational Safety and Health
PQL	Practical Quantitation Limit
RCRA	Resource Conservation and Recovery Act
SIM	Selected Ion Monitoring
TPH	Total Petroleum Hydrocarbons
tr	Trace level is the concentration of an analyte that is less than the PQL but greater than or equal to the MDL.

Client: ALS Environmental - Canada
Project: Picatinny Arsenal
Service Request: R1607963

Sample Name: PY-1011
Lab Code: R1607963-001
Sample Matrix: Water
Date Collected: 07/27/16
Date Received: 07/30/16

Analysis Method	Extracted/Digested By	Analyzed By
SM 2540 B-1997(2011)		KWONG
SM 2540 C-1997(2011)		KWONG
SM 2540 D-1997(2011)		KWONG

Sample Name: PY-1012
Lab Code: R1607963-002
Sample Matrix: Water
Date Collected: 07/27/16
Date Received: 07/30/16

Analysis Method	Extracted/Digested By	Analyzed By
8270D	DMURPHY	BALLGEIER

Sample Name: PY-1013
Lab Code: R1607963-003
Sample Matrix: Water
Date Collected: 07/27/16
Date Received: 07/30/16

Analysis Method	Extracted/Digested By	Analyzed By
8260C		DLIPANI

Sample Name: T1R1-TB1
Lab Code: R1607963-007
Sample Matrix: Water
Date Collected: 07/27/16
Date Received: 07/30/16

Analysis Method	Extracted/Digested By	Analyzed By
8260C		DLIPANI

Client: ALS Environmental - Canada
Project: Picatinny Arsenal
Service Request: R1607963

Sample Name: PY-2009C
Lab Code: R1607963-008
Sample Matrix: Water
Date Collected: 07/28/16
Date Received: 07/30/16

Analysis Method	Extracted/Digested By	Analyzed By
8270D	DMURPHY	BALLGEIER

Sample Name: PY-2010C
Lab Code: R1607963-009
Sample Matrix: Water
Date Collected: 07/28/16
Date Received: 07/30/16

Analysis Method	Extracted/Digested By	Analyzed By
8260C		DLIPANI

Sample Name: PY-2019
Lab Code: R1607963-010
Sample Matrix: Water
Date Collected: 07/28/16
Date Received: 07/30/16

Analysis Method	Extracted/Digested By	Analyzed By
SM 2540 B-1997(2011)		KWONG
SM 2540 C-1997(2011)		KWONG
SM 2540 D-1997(2011)		KWONG

Sample Name: PY-2020
Lab Code: R1607963-011
Sample Matrix: Water
Date Collected: 07/28/16
Date Received: 07/30/16

Analysis Method	Extracted/Digested By	Analyzed By
SM 2540 B-1997(2011)		KWONG
SM 2540 C-1997(2011)		KWONG
SM 2540 D-1997(2011)		KWONG

Client: ALS Environmental - Canada
Project: Picatinny Arsenal
Service Request: R1607963

Sample Name: PY-2021
Lab Code: R1607963-012
Sample Matrix: Water
Date Collected: 07/28/16
Date Received: 07/30/16

Analysis Method	Extracted/Digested By	Analyzed By
8270D	DMURPHY	BALLGEIER

Sample Name: PY-2022
Lab Code: R1607963-013
Sample Matrix: Water
Date Collected: 07/28/16
Date Received: 07/30/16

Analysis Method	Extracted/Digested By	Analyzed By
8260C		DLIPANI

Sample Name: PY-3005B
Lab Code: R1607963-016
Sample Matrix: Soil
Date Collected: 07/29/16
Date Received: 07/30/16

Analysis Method	Extracted/Digested By	Analyzed By
8270D	MROGERSON	JMISIUREWICZ

Sample Name: PY-3006B
Lab Code: R1607963-017
Sample Matrix: Soil
Date Collected: 07/29/16
Date Received: 07/30/16

Analysis Method	Extracted/Digested By	Analyzed By
8260C		FNAEGLER

Sample Name: PY-3011
Lab Code: R1607963-018
Sample Matrix: Water
Date Collected: 07/29/16
Date Received: 07/30/16

Analysis Method	Extracted/Digested By	Analyzed By
SM 2540 B-1997(2011)		KWONG

Client: ALS Environmental - Canada
Project: Picatinny Arsenal
Service Request: R1607963

Sample Name: PY-3011
Lab Code: R1607963-018
Sample Matrix: Water
Date Collected: 07/29/16
Date Received: 07/30/16

Analysis Method	Extracted/Digested By	Analyzed By
SM 2540 C-1997(2011)		KWONG
SM 2540 D-1997(2011)		KWONG

Sample Name: PY-3012
Lab Code: R1607963-019
Sample Matrix: Water
Date Collected: 07/29/16
Date Received: 07/30/16

Analysis Method	Extracted/Digested By	Analyzed By
8270D	DMURPHY	BALLGEIER

Sample Name: PY-3013
Lab Code: R1607963-020
Sample Matrix: Water
Date Collected: 07/29/16
Date Received: 07/30/16

Analysis Method	Extracted/Digested By	Analyzed By
8260C		DLIPANI

Sample Name: PY-1027
Lab Code: R1607963-023
Sample Matrix: Water
Date Collected: 07/27/16
Date Received: 07/30/16

Analysis Method	Extracted/Digested By	Analyzed By
8260C		DLIPANI

Client: ALS Environmental - Canada
Project: Picatinny Arsenal
Service Request: R1607963

Sample Name: PY-1028
Lab Code: R1607963-024
Sample Matrix: Water
Date Collected: 07/27/16
Date Received: 07/30/16

Analysis Method	Extracted/Digested By	Analyzed By
8260C		DLIPANI

Sample Name: PY-2037
Lab Code: R1607963-025
Sample Matrix: Water
Date Collected: 07/28/16
Date Received: 07/30/16

Analysis Method	Extracted/Digested By	Analyzed By
8260C		DLIPANI

Sample Name: PY-3026
Lab Code: R1607963-026
Sample Matrix: Water
Date Collected: 07/29/16
Date Received: 07/30/16

Analysis Method	Extracted/Digested By	Analyzed By
8260C		DLIPANI

INORGANIC PREPARATION METHODS

The preparation methods associated with this report are found in these tables unless discussed in the case narrative.

Water/Liquid Matrix

Analytical Method	Preparation Method
200.7	200.2
200.8	200.2
6010C	3005A/3010A
6020A	ILM05.3
9014 Cyanide Reactivity	SW846 Ch7, 7.3.4.2
9034 Sulfide Reactivity	SW846 Ch7, 7.3.4.2
9034 Sulfide Acid Soluble	9030B
9056A Bomb (Halogens)	5050A
9066 Manual Distillation	9065
SM 4500-CN-E Residual Cyanide	SM 4500-CN-G
SM 4500-CN-E WAD Cyanide	SM 4500-CN-I

Solid/Soil/Non-Aqueous Matrix

Analytical Method	Preparation Method
6010C	3050B
6020A	3050B
6010C TCLP (1311) extract	3005A/3010A
6010 SPLP (1312) extract	3005A/3010A
7196A	3060A
7199	3060A
9056A Halogens/Halides	5050
300.0 Anions/ 350.1/ 353.2/ SM 2320B/ SM 5210B/ 9056A Anions	DI extraction

For analytical methods not listed, the preparation method is the same as the analytical method reference.

Sample Results

ALS Environmental—Rochester Laboratory
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Volatile Organic Compounds by GC/MS

ALS Environmental—Rochester Laboratory
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Analytical Report

Client:	ALS Environmental - Canada	**Service Request:**	R1607963
Project:	Picatinny Arsenal	**Date Collected:**	07/29/16 15:45
Sample Matrix:	Soil	**Date Received:**	07/30/16 13:45
Sample Name:	PY-3006B	**Units:**	ug/Kg
Lab Code:	R1607963-017	**Basis:**	As Received

Volatile Organic Compounds by GC/MS, Unpreserved

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Benzene	5.0 U	5.0	1	08/04/16 19:54	
Trichloroethene (TCE)	**6.7**	5.0	1	08/04/16 19:54	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	101	51 - 136	08/04/16 19:54	
Dibromofluoromethane	33 *	63 - 138	08/04/16 19:54	*
Toluene-d8	103	66 - 138	08/04/16 19:54	

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Analytical Report

Client:	ALS Environmental - Canada	**Service Request:**	R1607963
Project:	Picatinny Arsenal	**Date Collected:**	07/29/16 15:45
Sample Matrix:	Soil	**Date Received:**	07/30/16 13:45
Sample Name:	PY-3006B	**Units:**	ug/Kg
Lab Code:	R1607963-017	**Basis:**	As Received

Volatile Organic Compounds by GC/MS, Unpreserved

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Benzene	**31**	25	5.05	08/07/16 00:35	
Trichloroethene (TCE)	25 U	25	5.05	08/07/16 00:35	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	112	51 - 136	08/07/16 00:35	
Dibromofluoromethane	58 *	63 - 138	08/07/16 00:35	*
Toluene-d8	127	66 - 138	08/07/16 00:35	

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Analytical Report

Client:	ALS Environmental - Canada	**Service Request:**	R1607963
Project:	Picatinny Arsenal	**Date Collected:**	07/27/16 19:30
Sample Matrix:	Water	**Date Received:**	07/30/16 13:45
Sample Name:	PY-1013	**Units:**	ug/L
Lab Code:	R1607963-003	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Benzene	1.0 U	1.0	0.20	1	08/02/16 15:18	
Trichloroethene (TCE)	1.0 U	1.0	0.22	1	08/02/16 15:18	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	102	85 - 122	08/02/16 15:18	
Dibromofluoromethane	107	89 - 119	08/02/16 15:18	
Toluene-d8	109	87 - 121	08/02/16 15:18	

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Analytical Report

Client:	ALS Environmental - Canada	**Service Request:**	R1607963
Project:	Picatinny Arsenal	**Date Collected:**	07/27/16 08:00
Sample Matrix:	Water	**Date Received:**	07/30/16 13:45
Sample Name:	T1R1-TB1	**Units:**	ug/L
Lab Code:	R1607963-007	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Benzene	1.0 U	1.0	0.20	1	08/02/16 13:11	
Trichloroethene (TCE)	1.0 U	1.0	0.22	1	08/02/16 13:11	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	103	85 - 122	08/02/16 13:11	
Dibromofluoromethane	104	89 - 119	08/02/16 13:11	
Toluene-d8	110	87 - 121	08/02/16 13:11	

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Analytical Report

Client:	ALS Environmental - Canada	**Service Request:**	R1607963
Project:	Picatinny Arsenal	**Date Collected:**	07/28/16 18:00
Sample Matrix:	Water	**Date Received:**	07/30/16 13:45
Sample Name:	PY-2010C	**Units:**	ug/L
Lab Code:	R1607963-009	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Benzene	1.0 U	1.0	0.20	1	08/02/16 12:38	
Trichloroethene (TCE)	1.0 U	1.0	0.22	1	08/02/16 12:38	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	105	85 - 122	08/02/16 12:38	
Dibromofluoromethane	101	89 - 119	08/02/16 12:38	
Toluene-d8	107	87 - 121	08/02/16 12:38	

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Analytical Report

Client:	ALS Environmental - Canada	**Service Request:**	R1607963
Project:	Picatinny Arsenal	**Date Collected:**	07/28/16 17:05
Sample Matrix:	Water	**Date Received:**	07/30/16 13:45
Sample Name:	PY-2022	**Units:**	ug/L
Lab Code:	R1607963-013	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Benzene	1.0 U	1.0	0.20	1	08/02/16 15:50	
Trichloroethene (TCE)	1.0 U	1.0	0.22	1	08/02/16 15:50	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	105	85 - 122	08/02/16 15:50	
Dibromofluoromethane	106	89 - 119	08/02/16 15:50	
Toluene-d8	102	87 - 121	08/02/16 15:50	

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Analytical Report

Client:	ALS Environmental - Canada	**Service Request:**	R1607963
Project:	Picatinny Arsenal	**Date Collected:**	07/29/16 15:25
Sample Matrix:	Water	**Date Received:**	07/30/16 13:45
Sample Name:	PY-3013	**Units:**	ug/L
Lab Code:	R1607963-020	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Benzene	**0.34 J**	1.0	0.20	1	08/02/16 16:26	
Trichloroethene (TCE)	1.0 U	1.0	0.22	1	08/02/16 16:26	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	104	85 - 122	08/02/16 16:26	
Dibromofluoromethane	106	89 - 119	08/02/16 16:26	
Toluene-d8	101	87 - 121	08/02/16 16:26	

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Analytical Report

Client:	ALS Environmental - Canada	**Service Request:**	R1607963
Project:	Picatinny Arsenal	**Date Collected:**	07/27/16 19:35
Sample Matrix:	Water	**Date Received:**	07/30/16 13:45
Sample Name:	PY-1027	**Units:**	ug/L
Lab Code:	R1607963-023	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Benzene	1.0 U	1.0	0.20	1	08/02/16 13:42	
Trichloroethene (TCE)	1.0 U	1.0	0.22	1	08/02/16 13:42	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	102	85 - 122	08/02/16 13:42	
Dibromofluoromethane	103	89 - 119	08/02/16 13:42	
Toluene-d8	108	87 - 121	08/02/16 13:42	

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Analytical Report

Client:	ALS Environmental - Canada	**Service Request:**	R1607963
Project:	Picatinny Arsenal	**Date Collected:**	07/27/16 19:30
Sample Matrix:	Water	**Date Received:**	07/30/16 13:45
Sample Name:	PY-1028	**Units:**	ug/L
Lab Code:	R1607963-024	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Benzene	1.0 U	1.0	0.20	1	08/02/16 12:07	
Trichloroethene (TCE)	1.0 U	1.0	0.22	1	08/02/16 12:07	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	101	85 - 122	08/02/16 12:07	
Dibromofluoromethane	103	89 - 119	08/02/16 12:07	
Toluene-d8	109	87 - 121	08/02/16 12:07	

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Analytical Report

Client:	ALS Environmental - Canada	**Service Request:**	R1607963
Project:	Picatinny Arsenal	**Date Collected:**	07/28/16 17:15
Sample Matrix:	Water	**Date Received:**	07/30/16 13:45
Sample Name:	PY-2037	**Units:**	ug/L
Lab Code:	R1607963-025	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Benzene	1.0 U	1.0	0.20	1	08/02/16 14:15	
Trichloroethene (TCE)	1.0 U	1.0	0.22	1	08/02/16 14:15	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	102	85 - 122	08/02/16 14:15	
Dibromofluoromethane	102	89 - 119	08/02/16 14:15	
Toluene-d8	107	87 - 121	08/02/16 14:15	

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Analytical Report

Client:	ALS Environmental - Canada	**Service Request:**	R1607963
Project:	Picatinny Arsenal	**Date Collected:**	07/29/16 15:10
Sample Matrix:	Water	**Date Received:**	07/30/16 13:45
Sample Name:	PY-3026	**Units:**	ug/L
Lab Code:	R1607963-026	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Benzene	1.0 U	1.0	0.20	1	08/02/16 14:46	
Trichloroethene (TCE)	1.0 U	1.0	0.22	1	08/02/16 14:46	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	103	85 - 122	08/02/16 14:46	
Dibromofluoromethane	100	89 - 119	08/02/16 14:46	
Toluene-d8	106	87 - 121	08/02/16 14:46	

Semivolatile Organic Compounds by GC/MS

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Analytical Report

Client:	ALS Environmental - Canada	**Service Request:**	R1607963
Project:	Picatinny Arsenal	**Date Collected:**	07/27/16 19:30
Sample Matrix:	Water	**Date Received:**	07/30/16 13:45
Sample Name:	PY-1012	**Units:**	ug/L
Lab Code:	R1607963-002	**Basis:**	NA

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,2-Dichlorobenzene	10 U	10	1.0	1	08/05/16 18:34	8/2/16	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2-Fluorobiphenyl	80	31 - 118	08/05/16 18:34	
Nitrobenzene-d5	84	31 - 110	08/05/16 18:34	
p-Terphenyl-d14	118	30 - 133	08/05/16 18:34	

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Analytical Report

Client:	ALS Environmental - Canada	**Service Request:**	R1607963
Project:	Picatinny Arsenal	**Date Collected:**	07/28/16 18:00
Sample Matrix:	Water	**Date Received:**	07/30/16 13:45
Sample Name:	PY-2009C	**Units:**	ug/L
Lab Code:	R1607963-008	**Basis:**	NA

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,2-Dichlorobenzene	10 U	10	1.0	1	08/05/16 19:02	8/2/16	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2-Fluorobiphenyl	70	31 - 118	08/05/16 19:02	
Nitrobenzene-d5	81	31 - 110	08/05/16 19:02	
p-Terphenyl-d14	94	30 - 133	08/05/16 19:02	

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Analytical Report

Client:	ALS Environmental - Canada	**Service Request:**	R1607963
Project:	Picatinny Arsenal	**Date Collected:**	07/28/16 17:05
Sample Matrix:	Water	**Date Received:**	07/30/16 13:45
Sample Name:	PY-2021	**Units:**	ug/L
Lab Code:	R1607963-012	**Basis:**	NA

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,2-Dichlorobenzene	10 U	10	1.0	1	08/05/16 19:29	8/2/16	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2-Fluorobiphenyl	83	31 - 118	08/05/16 19:29	
Nitrobenzene-d5	87	31 - 110	08/05/16 19:29	
p-Terphenyl-d14	127	30 - 133	08/05/16 19:29	

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Analytical Report

Client:	ALS Environmental - Canada	**Service Request:**	R1607963
Project:	Picatinny Arsenal	**Date Collected:**	07/29/16 15:45
Sample Matrix:	Soil	**Date Received:**	07/30/16 13:45
Sample Name:	PY-3005B	**Units:**	ug/Kg
Lab Code:	R1607963-016	**Basis:**	As Received

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3541

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,2-Dichlorobenzene	**69 J**	330	36	1	08/09/16 14:00	8/3/16	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2-Fluorobiphenyl	19	10 - 102	08/09/16 14:00	
Nitrobenzene-d5	22	10 - 95	08/09/16 14:00	
p-Terphenyl-d14	33	16 - 126	08/09/16 14:00	

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Analytical Report

Client:	ALS Environmental - Canada	**Service Request:**	R1607963
Project:	Picatinny Arsenal	**Date Collected:**	07/29/16 15:25
Sample Matrix:	Water	**Date Received:**	07/30/16 13:45
Sample Name:	PY-3012	**Units:**	ug/L
Lab Code:	R1607963-019	**Basis:**	NA

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,2-Dichlorobenzene	10 U	10	1.0	1	08/05/16 20:53	8/2/16	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2-Fluorobiphenyl	77	31 - 118	08/05/16 20:53	
Nitrobenzene-d5	76	31 - 110	08/05/16 20:53	
p-Terphenyl-d14	115	30 - 133	08/05/16 20:53	

General Chemistry

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Analytical Report

Client:	ALS Environmental - Canada	**Service Request:**	R1607963
Project:	Picatinny Arsenal	**Date Collected:**	07/27/16 19:30
Sample Matrix:	Water	**Date Received:**	07/30/16 13:45
Sample Name:	PY-1011	**Basis:**	NA
Lab Code:	R1607963-001		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Solids, Total	SM 2540 B-1997(2011)	**2060**	mg/L	50	1	08/02/16 14:15	
Solids, Total Dissolved (TDS)	SM 2540 C-1997(2011)	**1960**	mg/L	50	1	08/02/16 10:40	
Solids, Total Suspended (TSS)	SM 2540 D-1997(2011)	**4.5**	mg/L	1.4	1	08/03/16 13:55	

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Analytical Report

Client:	ALS Environmental - Canada	**Service Request:**	R1607963
Project:	Picatinny Arsenal	**Date Collected:**	07/28/16 17:05
Sample Matrix:	Water	**Date Received:**	07/30/16 13:45
Sample Name:	PY-2019	**Basis:**	NA
Lab Code:	R1607963-010		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Solids, Total	SM 2540 B-1997(2011)	**864**	mg/L	20	1	08/02/16 14:15	
Solids, Total Dissolved (TDS)	SM 2540 C-1997(2011)	**848**	mg/L	20	1	08/02/16 10:40	
Solids, Total Suspended (TSS)	SM 2540 D-1997(2011)	**7.5**	mg/L	1.3	1	08/03/16 13:55	

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Analytical Report

Client:	ALS Environmental - Canada	**Service Request:**	R1607963
Project:	Picatinny Arsenal	**Date Collected:**	07/28/16 17:05
Sample Matrix:	Water	**Date Received:**	07/30/16 13:45
Sample Name:	PY-2020	**Basis:**	NA
Lab Code:	R1607963-011		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Solids, Total	SM 2540 B-1997(2011)	**846**	mg/L	20	1	08/02/16 14:15	
Solids, Total Dissolved (TDS)	SM 2540 C-1997(2011)	**834**	mg/L	20	1	08/02/16 10:40	
Solids, Total Suspended (TSS)	SM 2540 D-1997(2011)	**9.1**	mg/L	1.5	1	08/04/16 13:00	

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Analytical Report

Client:	ALS Environmental - Canada	**Service Request:**	R1607963
Project:	Picatinny Arsenal	**Date Collected:**	07/29/16 15:25
Sample Matrix:	Water	**Date Received:**	07/30/16 13:45
Sample Name:	PY-3011	**Basis:**	NA
Lab Code:	R1607963-018		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Solids, Total	SM 2540 B-1997(2011)	**932**	mg/L	20	1	08/02/16 14:15	
Solids, Total Dissolved (TDS)	SM 2540 C-1997(2011)	**894**	mg/L	20	1	08/02/16 10:40	
Solids, Total Suspended (TSS)	SM 2540 D-1997(2011)	**14.4**	mg/L	1.4	1	08/04/16 13:00	

QC Summary Forms

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Volatile Organic Compounds by GC/MS

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Client: ALS Environmental - Canada **Service Request:** R1607963
Project: Picatinny Arsenal
Sample Matrix: Soil

SURROGATE RECOVERY SUMMARY
Volatile Organic Compounds by GC/MS, Unpreserved

Analysis Method: 8260C
Extraction Method: EPA 5030C

Sample Name	Lab Code	4-Bromofluorobenzene 51 - 136	Dibromofluoromethane 63 - 138	Toluene-d8 66 - 138
PY-3006B	R1607963-017	101	33 *	103
PY-3006B DL	R1607963-017	112	58 *	127
Method Blank	RQ1609149-01	106	98	102
Lab Control Sample	RQ1609149-02	109	104	107
Method Blank	RQ1609304-01	120	111	111
Lab Control Sample	RQ1609304-02	118	118	128
PY-3006B MS	RQ1609304-05	142 *	80	131
PY-3006B DMS	RQ1609304-06	124	68	121

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QA/QC Report

Client:	ALS Environmental - Canada	**Service Request:**	R1607963
Project:	Picatinny Arsenal	**Date Collected:**	07/29/16
Sample Matrix:	Soil	**Date Received:**	07/30/16
		Date Analyzed:	08/7/16
		Date Extracted:	NA

Duplicate Matrix Spike Summary
Volatile Organic Compounds by GC/MS, Unpreserved

Sample Name:	PY-3006B	**Units:**	ug/Kg
Lab Code:	R1607963-017	**Basis:**	As Received
Analysis Method:	8260C		
Prep Method:	EPA 5030C		

		Matrix Spike RQ1609304-05			**Duplicate Matrix Spike** RQ1609304-06					
Analyte Name	**Sample Result**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
Benzene	25 U	338	248	137 *	287	248	116	63-126	17	30
Trichloroethene (TCE)	25 U	565	248	228 *	527	248	213 *	54-136	7	30

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

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QA/QC Report

Client:	ALS Environmental - Canada	**Service Request:**	R1607963
Project:	Picatinny Arsenal	**Date Analyzed:**	08/04/16 11:04
Sample Matrix:	Soil	**Date Extracted:**	

Method Blank Summary
Volatile Organic Compounds by GC/MS, Unpreserved

Sample Name:	Method Blank	**Instrument ID:**	R-MS-14
Lab Code:	RQ1609149-01	**File ID:**	I:\ACQUDATA\MSVOA14\Data\080416\B7338.D\
Analysis Method:	8260C	**Analysis Lot:**	508399
Prep Method:	EPA 5030C		

This Method Blank applies to the following analyses.

Sample Name	Lab Code	File ID	Date Analyzed
Lab Control Sample	RQ1609149-02	I:\ACQUDATA\MSVOA14\Data\080416 \B7336.D\	08/04/16 10:16
PY-3006B	R1607963-017	I:\ACQUDATA\MSVOA14\Data\080416 \B7358.D\	08/04/16 19:54

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QA/QC Report

Client:	ALS Environmental - Canada	**Service Request:**	R1607963
Project:	Picatinny Arsenal	**Date Analyzed:**	08/06/16 16:30
Sample Matrix:	Soil	**Date Extracted:**	

Method Blank Summary
Volatile Organic Compounds by GC/MS, Unpreserved

Sample Name:	Method Blank	**Instrument ID:**	R-MS-14
Lab Code:	RQ1609304-01	**File ID:**	I:\ACQUDATA\MSVOA14\DATA\080616\B7370.D\
Analysis Method:	8260C	**Analysis Lot:**	508810
Prep Method:	EPA 5030C		

This Method Blank applies to the following analyses.

Sample Name	Lab Code	File ID	Date Analyzed
Lab Control Sample	RQ1609304-02	I:\ACQUDATA\MSVOA14\DATA\080616 \B7368.D\	08/06/16 15:42
PY-3006B	R1607963-017	I:\ACQUDATA\MSVOA14\DATA\080616 \B7390.D\	08/07/16 00:35
PY-3006B	RQ1609304-05	I:\ACQUDATA\MSVOA14\DATA\080616 \B7391.D\	08/07/16 00:59
PY-3006B	RQ1609304-06	I:\ACQUDATA\MSVOA14\DATA\080616 \B7392.D\	08/07/16 01:23

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Analytical Report

Client:	ALS Environmental - Canada	**Service Request:**	R1607963
Project:	Picatinny Arsenal	**Date Collected:**	NA
Sample Matrix:	Soil	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ug/Kg
Lab Code:	RQ1609149-01	**Basis:**	As Received

Volatile Organic Compounds by GC/MS, Unpreserved

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Benzene	5.0 U	5.0	1	08/04/16 11:04	
Trichloroethene (TCE)	5.0 U	5.0	1	08/04/16 11:04	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	106	51 - 136	08/04/16 11:04	
Dibromofluoromethane	98	63 - 138	08/04/16 11:04	
Toluene-d8	102	66 - 138	08/04/16 11:04	

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Analytical Report

Client:	ALS Environmental - Canada	**Service Request:**	R1607963
Project:	Picatinny Arsenal	**Date Collected:**	NA
Sample Matrix:	Soil	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ug/Kg
Lab Code:	RQ1609304-01	**Basis:**	As Received

Volatile Organic Compounds by GC/MS, Unpreserved

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Benzene	5.0 U	5.0	1	08/06/16 16:30	
Trichloroethene (TCE)	5.0 U	5.0	1	08/06/16 16:30	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	120	51 - 136	08/06/16 16:30	
Dibromofluoromethane	111	63 - 138	08/06/16 16:30	
Toluene-d8	111	66 - 138	08/06/16 16:30	

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QA/QC Report

Client:	ALS Environmental - Canada	**Service Request:**	R1607963
Project:	Picatinny Arsenal	**Date Analyzed:**	08/04/16 10:16
Sample Matrix:	Soil	**Date Extracted:**	

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS, Unpreserved

Sample Name:	Lab Control Sample	**Instrument ID:**	R-MS-14
Lab Code:	RQ1609149-02	**File ID:**	I:\ACQUDATA\MSVOA14\Data\080416\B7336.D\
Analysis Method:	8260C	**Analysis Lot:**	508399
Prep Method:	EPA 5030C		

This Lab Control Sample applies to the following analyses.

Sample Name	Lab Code	File ID	Date Analyzed
Method Blank	RQ1609149-01	I:\ACQUDATA\MSVOA14\Data\080416 \B7338.D\	08/04/16 11:04
PY-3006B	R1607963-017	I:\ACQUDATA\MSVOA14\Data\080416 \B7358.D\	08/04/16 19:54

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QA/QC Report

Client:	ALS Environmental - Canada	**Service Request:**	R1607963
Project:	Picatinny Arsenal	**Date Analyzed:**	08/06/16 15:42
Sample Matrix:	Soil	**Date Extracted:**	

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS, Unpreserved

Sample Name:	Lab Control Sample	**Instrument ID:**	R-MS-14
Lab Code:	RQ1609304-02	**File ID:**	I:\ACQUDATA\MSVOA14\DATA\080616\B7368.D\
Analysis Method:	8260C	**Analysis Lot:**	508810
Prep Method:	EPA 5030C		

This Lab Control Sample applies to the following analyses.

Sample Name	Lab Code	File ID	Date Analyzed
Method Blank	RQ1609304-01	I:\ACQUDATA\MSVOA14\DATA\080616 \B7370.D\	08/06/16 16:30
PY-3006B	R1607963-017	I:\ACQUDATA\MSVOA14\DATA\080616 \B7390.D\	08/07/16 00:35
PY-3006B	RQ1609304-05	I:\ACQUDATA\MSVOA14\DATA\080616 \B7391.D\	08/07/16 00:59
PY-3006B	RQ1609304-06	I:\ACQUDATA\MSVOA14\DATA\080616 \B7392.D\	08/07/16 01:23

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QA/QC Report

Client:	ALS Environmental - Canada	**Service Request:**	R1607963
Project:	Picatinny Arsenal	**Date Analyzed:**	08/04/16
Sample Matrix:	Soil		

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS, Unpreserved

Units:ug/Kg
Basis: As Received

Lab Control Sample
RQ1609149-02

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Benzene	8260C	19.8	20.0	99	40-140
Trichloroethene (TCE)	8260C	19.7	20.0	98	40-140

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QA/QC Report

Client:	ALS Environmental - Canada	**Service Request:**	R1607963
Project:	Picatinny Arsenal	**Date Analyzed:**	08/06/16
Sample Matrix:	Soil		

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS, Unpreserved

Units:ug/Kg
Basis: As Received

Lab Control Sample
RQ1609304-02

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Benzene	8260C	22.3	20.0	111	40-140
Trichloroethene (TCE)	8260C	21.4	20.0	107	40-140

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QC/QC Report

Client: ALS Environmental - Canada **Service Request:**R1607963
Project: Picatinny Arsenal **Date Analyzed:**08/04/16 09:10

Tune Summary
Volatile Organic Compounds by GC/MS, Unpreserved

File ID: I:\ACQUDATA\MSVOA14\Data\080416\B7334.D\ **Analytical Method:** 8260C
Instrument ID: R-MS-14 **Analysis Lot:** 508399

Target Mass	Relative to Mass	Lower Limit %	Upper Limit %	Relative Abundance %	Raw Abundance	Result Pass/Fail
50	95	15	40	17.18	25429	Pass
75	95	30	60	47.31	70027	Pass
95	95	100	100	100.00	148032	Pass
96	95	5	9	6.71	9928	Pass
173	174	0	2	0.00	0	Pass
174	95	50	120	70.95	105029	Pass
175	174	5	9	7.85	8242	Pass
176	174	95	101	97.83	102747	Pass
177	176	5	9	6.34	6519	Pass

Sample Name	Lab Code	File ID:	Date Analyzed:	Q
Continuing Calibration Verification	RQ1609149-04	I:\ACQUDATA\MSVOA14\Data\080416\B7335.D\	08/04/16 09:47	
Lab Control Sample	RQ1609149-02	I:\ACQUDATA\MSVOA14\Data\080416\B7336.D\	08/04/16 10:16	
Method Blank	RQ1609149-01	I:\ACQUDATA\MSVOA14\Data\080416\B7338.D\	08/04/16 11:04	
PY-3006B	R1607963-017	I:\ACQUDATA\MSVOA14\Data\080416\B7358.D\	08/04/16 19:54	

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QC/QC Report

Client: ALS Environmental - Canada **Service Request:**R1607963
Project: Picatinny Arsenal **Date Analyzed:**08/04/16 09:10

Tune Summary
Volatile Organic Compounds by GC/MS, Unpreserved

File ID: I:\ACQUDATA\MSVOA14\DATA\080616\B7365.D\ **Analytical Method:** 8260C
Instrument ID: R-MS-14 **Analysis Lot:** 508810

Target Mass	Relative to Mass	Lower Limit %	Upper Limit %	Relative Abundance %	Raw Abundance	Result Pass/Fail
50	95	15	40	16.52	26371	Pass
75	95	30	60	45.63	72856	Pass
95	95	100	100	100.00	159653	Pass
96	95	5	9	6.59	10525	Pass
173	174	0	2	0.65	841	Pass
174	95	50	120	80.71	128851	Pass
175	174	5	9	6.95	8958	Pass
176	174	95	101	95.97	123664	Pass
177	176	5	9	6.55	8105	Pass

Sample Name	Lab Code	File ID:	Date Analyzed:	Q
Continuing Calibration Verification	RQ1609304-04	I:\ACQUDATA\MSVOA14\DATA\080616\B7367.D\	08/06/16 15:07	
Lab Control Sample	RQ1609304-02	I:\ACQUDATA\MSVOA14\DATA\080616\B7368.D\	08/06/16 15:42	
Method Blank	RQ1609304-01	I:\ACQUDATA\MSVOA14\DATA\080616\B7370.D\	08/06/16 16:30	
PY-3006B	R1607963-017	I:\ACQUDATA\MSVOA14\DATA\080616\B7390.D\	08/07/16 00:35	
PY-3006B	RQ1609304-05	I:\ACQUDATA\MSVOA14\DATA\080616\B7391.D\	08/07/16 00:59	
PY-3006B	RQ1609304-06	I:\ACQUDATA\MSVOA14\DATA\080616\B7392.D\	08/07/16 01:23	

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QA/QC Report

Client: ALS Environmental - Canada **Service Request:**R1607963
Project: Picatinny Arsenal **Date Analyzed:**08/04/16 09:47

Internal Standard Area and RT SUMMARY
Volatile Organic Compounds by GC/MS, Unpreserved

File ID: I:\ACQUDATA\MSVOA14\Data\080416\B7335.D\ **Lab Code:**RQ1609149-04
Instrument ID: R-MS-14 **Analysis Lot:**508399
Analysis Method: 8260C **Signal ID:**

		1,4-Dichlorobenzene-d4		1,4-Difluorobenzene		Chlorobenzene-d5	
		Area	**RT**	**Area**	**RT**	**Area**	**RT**
	ICAL Result ==>	220,608	13.23	512,578	5.87	449,911	10.61
	Upper Limit ==>	441,216	13.73	1,025,156	6.37	899,822	11.11
	Lower Limit ==>	110,304	12.73	256,289	5.37	224,956	10.11
Associated Analyses							
Continuing Calibration Verification	RQ1609149-04	217334	13.23	524199	5.87	436347	10.61
Lab Control Sample	RQ1609149-02	205608	13.23	519129	5.87	451902	10.61
Method Blank	RQ1609149-01	223179	13.23	525208	5.88	458492	10.61
PY-3006B	R1607963-017.R01	220590	13.23	501553	5.88	453931	10.61

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QA/QC Report

Client: ALS Environmental - Canada
Project: Picatinny Arsenal

Service Request:R1607963
Date Analyzed:08/04/16 09:47

Internal Standard Area and RT SUMMARY
Volatile Organic Compounds by GC/MS, Unpreserved

File ID: I:\ACQUDATA\MSVOA14\Data\080416\B7335.D\
Instrument ID: R-MS-14
Analysis Method: 8260C

Lab Code:RQ1609149-04
Analysis Lot:508399
Signal ID:

		Pentafluorobenzene	
		Area	**RT**
	ICAL Result ==>	307,267	4.48
	Upper Limit ==>	614,534	4.98
	Lower Limit ==>	153,634	3.98
Associated Analyses			
Continuing Calibration Verification	RQ1609149-04	316468	4.48
Lab Control Sample	RQ1609149-02	311427	4.48
Method Blank	RQ1609149-01	309311	4.48
PY-3006B	R1607963-017.R01	294135	4.48

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QA/QC Report

Client: ALS Environmental - Canada **Service Request:**R1607963
Project: Picatinny Arsenal **Date Analyzed:**08/06/16 15:07

Internal Standard Area and RT SUMMARY
Volatile Organic Compounds by GC/MS, Unpreserved

File ID: I:\ACQUDATA\MSVOA14\DATA\080616\B7367.D\ **Lab Code:**RQ1609304-04
Instrument ID: R-MS-14 **Analysis Lot:**508810
Analysis Method: 8260C **Signal ID:**

		1,4-Dichlorobenzene-d4		1,4-Difluorobenzene		Chlorobenzene-d5	
		Area	**RT**	**Area**	**RT**	**Area**	**RT**
	ICAL Result ==>	220,608	13.23	512,578	5.87	449,911	10.61
	Upper Limit ==>	441,216	13.73	1,025,156	6.37	899,822	11.11
	Lower Limit ==>	110,304	12.73	256,289	5.37	224,956	10.11
Associated Analyses							
Continuing Calibration Verification	RQ1609304-04	221033	13.23	463000	5.87	453794	10.61
Lab Control Sample	RQ1609304-02	217122	13.23	444380	5.87	455586	10.61
Method Blank	RQ1609304-01	233334	13.23	453382	5.87	432629	10.61
PY-3006B	R1607963-017	242549	13.23	442223	5.87	464718	10.61
PY-3006B	RQ1609304-05	260953	13.23	400061	5.88	480104	10.61
PY-3006B	RQ1609304-06	241646	13.23	397845	5.88	454559	10.61

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QA/QC Report

Client: ALS Environmental - Canada
Project: Picatinny Arsenal

Service Request:R1607963
Date Analyzed:08/06/16 15:07

Internal Standard Area and RT SUMMARY
Volatile Organic Compounds by GC/MS, Unpreserved

File ID: I:\ACQUDATA\MSVOA14\DATA\080616\B7367.D\
Instrument ID: R-MS-14
Analysis Method: 8260C

Lab Code:RQ1609304-04
Analysis Lot:508810
Signal ID:

		Pentafluorobenzene	
		Area	**RT**
	ICAL Result ==>	307,267	4.48
	Upper Limit ==>	614,534	4.98
	Lower Limit ==>	153,634	3.98
Associated Analyses			
Continuing Calibration Verification	RQ1609304-04	265501	4.48
Lab Control Sample	RQ1609304-02	273375	4.48
Method Blank	RQ1609304-01	261558	4.48
PY-3006B	R1607963-017	224578	4.48
PY-3006B	RQ1609304-05	228475	4.48
PY-3006B	RQ1609304-06	216576	4.48

Client: ALS Environmental - Canada **Service Request:** R1607963
Project: Picatinny Arsenal
Sample Matrix: Water

SURROGATE RECOVERY SUMMARY
Volatile Organic Compounds by GC/MS

Analysis Method: 8260C

Sample Name	Lab Code	4-Bromofluorobenzene 85 - 122	Dibromofluoromethane 89 - 119	Toluene-d8 87 - 121
PY-1013	R1607963-003	102	107	109
T1R1-TB1	R1607963-007	103	104	110
PY-2010C	R1607963-009	105	101	107
PY-2022	R1607963-013	105	106	102
PY-3013	R1607963-020	104	106	101
PY-1027	R1607963-023	102	103	108
PY-1028	R1607963-024	101	103	109
PY-2037	R1607963-025	102	102	107
PY-3026	R1607963-026	103	100	106
Lab Control Sample	RQ1609075-03	98	105	107
Method Blank	RQ1609075-04	101	105	107
PY-2022 MS	RQ1609075-05	103	107	107
PY-2022 DMS	RQ1609075-06	100	105	105
PY-2010C MS	RQ1609075-07	107	103	104
PY-2010C DMS	RQ1609075-08	111	104	107

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QA/QC Report

Client:	ALS Environmental - Canada	**Service Request:**	R1607963
Project:	Picatinny Arsenal	**Date Collected:**	07/28/16
Sample Matrix:	Water	**Date Received:**	07/30/16
		Date Analyzed:	08/2/16

Duplicate Matrix Spike Summary
Volatile Organic Compounds by GC/MS

Sample Name:	PY-2022	**Units:**	ug/L
Lab Code:	R1607963-013	**Basis:**	NA
Analysis Method:	8260C		

		Matrix Spike RQ1609075-05			**Duplicate Matrix Spike** RQ1609075-06					
Analyte Name	**Sample Result**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
Benzene	1.0 U	52.2	50.0	104	52.0	50.0	104	76-129	<1	30
Trichloroethene (TCE)	1.0 U	54.8	50.0	110	56.4	50.0	113	62-142	3	30

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

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QA/QC Report

Client:	ALS Environmental - Canada	**Service Request:**	R1607963
Project:	Picatinny Arsenal	**Date Collected:**	07/28/16
Sample Matrix:	Water	**Date Received:**	07/30/16
		Date Analyzed:	08/2/16

Duplicate Matrix Spike Summary
Volatile Organic Compounds by GC/MS

Sample Name:	PY-2010C	**Units:**	ug/L
Lab Code:	R1607963-009	**Basis:**	NA
Analysis Method:	8260C		

		Matrix Spike RQ1609075-07			Duplicate Matrix Spike RQ1609075-08					
Analyte Name	**Sample Result**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
Benzene	1.0 U	50.1	50.0	100	48.5	50.0	97	76-129	3	30
Trichloroethene (TCE)	1.0 U	54.6	50.0	109	53.9	50.0	108	62-142	1	30

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

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QA/QC Report

Client:	ALS Environmental - Canada	**Service Request:**	R1607963
Project:	Picatinny Arsenal	**Date Analyzed:**	08/02/16 11:35
Sample Matrix:	Water		

Method Blank Summary
Volatile Organic Compounds by GC/MS

Sample Name: Method Blank **Instrument ID:** R-MS-06
Lab Code: RQ1609075-04 **File ID:** I:\ACQUDATA\MSVOA6\DATA\080216\D0623.D\

Analysis Method: 8260C **Analysis Lot:** 508119

This Method Blank applies to the following analyses.

Sample Name	Lab Code	File ID	Date Analyzed
Lab Control Sample	RQ1609075-03	I:\ACQUDATA\MSVOA6\DATA\080216\D0621.D\	08/02/16 10:32
PY-1028	R1607963-024	I:\ACQUDATA\MSVOA6\DATA\080216\D0624.D\	08/02/16 12:07
PY-2010C	R1607963-009	I:\ACQUDATA\MSVOA6\DATA\080216\D0625.D\	08/02/16 12:38
T1R1-TB1	R1607963-007	I:\ACQUDATA\MSVOA6\DATA\080216\D0626.D\	08/02/16 13:11
PY-1027	R1607963-023	I:\ACQUDATA\MSVOA6\DATA\080216\D0627.D\	08/02/16 13:42
PY-2037	R1607963-025	I:\ACQUDATA\MSVOA6\DATA\080216\D0628.D\	08/02/16 14:15
PY-3026	R1607963-026	I:\ACQUDATA\MSVOA6\DATA\080216\D0629.D\	08/02/16 14:46
PY-1013	R1607963-003	I:\ACQUDATA\MSVOA6\DATA\080216\D0630.D\	08/02/16 15:18
PY-2022	R1607963-013	I:\ACQUDATA\MSVOA6\DATA\080216\D0631.D\	08/02/16 15:50
PY-3013	R1607963-020	I:\ACQUDATA\MSVOA6\DATA\080216\D0632.D\	08/02/16 16:26
PY-2022	RQ1609075-05	I:\ACQUDATA\MSVOA6\DATA\080216\D0637.D\	08/02/16 19:13
PY-2022	RQ1609075-06	I:\ACQUDATA\MSVOA6\DATA\080216\D0638.D\	08/02/16 19:44
PY-2010C	RQ1609075-07	I:\ACQUDATA\MSVOA6\DATA\080216\D0639.D\	08/02/16 20:16
PY-2010C	RQ1609075-08	I:\ACQUDATA\MSVOA6\DATA\080216\D0640.D\	08/02/16 20:47

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Analytical Report

Client:	ALS Environmental - Canada	**Service Request:**	R1607963
Project:	Picatinny Arsenal	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	RQ1609075-04	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Benzene	1.0 U	1.0	0.20	1	08/02/16 11:35	
Trichloroethene (TCE)	1.0 U	1.0	0.22	1	08/02/16 11:35	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	101	85 - 122	08/02/16 11:35	
Dibromofluoromethane	105	89 - 119	08/02/16 11:35	
Toluene-d8	107	87 - 121	08/02/16 11:35	

ALS Group USA, Corp.
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QA/QC Report

Client:	ALS Environmental - Canada	**Service Request:**	R1607963
Project:	Picatinny Arsenal	**Date Analyzed:**	08/02/16 10:32
Sample Matrix:	Water		

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Sample Name: Lab Control Sample **Instrument ID:** R-MS-06
Lab Code: RQ1609075-03 **File ID:** I:\ACQUDATA\MSVOA6\DATA\080216\D0621.D\

Analysis Method: 8260C **Analysis Lot:** 508119

This Lab Control Sample applies to the following analyses.

Sample Name	Lab Code	File ID	Date Analyzed
Method Blank	RQ1609075-04	I:\ACQUDATA\MSVOA6\DATA\080216\D0623.D\	08/02/16 11:35
PY-1028	R1607963-024	I:\ACQUDATA\MSVOA6\DATA\080216\D0624.D\	08/02/16 12:07
PY-2010C	R1607963-009	I:\ACQUDATA\MSVOA6\DATA\080216\D0625.D\	08/02/16 12:38
T1R1-TB1	R1607963-007	I:\ACQUDATA\MSVOA6\DATA\080216\D0626.D\	08/02/16 13:11
PY-1027	R1607963-023	I:\ACQUDATA\MSVOA6\DATA\080216\D0627.D\	08/02/16 13:42
PY-2037	R1607963-025	I:\ACQUDATA\MSVOA6\DATA\080216\D0628.D\	08/02/16 14:15
PY-3026	R1607963-026	I:\ACQUDATA\MSVOA6\DATA\080216\D0629.D\	08/02/16 14:46
PY-1013	R1607963-003	I:\ACQUDATA\MSVOA6\DATA\080216\D0630.D\	08/02/16 15:18
PY-2022	R1607963-013	I:\ACQUDATA\MSVOA6\DATA\080216\D0631.D\	08/02/16 15:50
PY-3013	R1607963-020	I:\ACQUDATA\MSVOA6\DATA\080216\D0632.D\	08/02/16 16:26
PY-2022	RQ1609075-05	I:\ACQUDATA\MSVOA6\DATA\080216\D0637.D\	08/02/16 19:13
PY-2022	RQ1609075-06	I:\ACQUDATA\MSVOA6\DATA\080216\D0638.D\	08/02/16 19:44
PY-2010C	RQ1609075-07	I:\ACQUDATA\MSVOA6\DATA\080216\D0639.D\	08/02/16 20:16
PY-2010C	RQ1609075-08	I:\ACQUDATA\MSVOA6\DATA\080216\D0640.D\	08/02/16 20:47

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QA/QC Report

Client:	ALS Environmental - Canada	**Service Request:**	R1607963
Project:	Picatinny Arsenal	**Date Analyzed:**	08/02/16
Sample Matrix:	Water		

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Units:ug/L
Basis:NA

Lab Control Sample
RQ1609075-03

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Benzene	8260C	20.5	20.0	102	76-118
Trichloroethene (TCE)	8260C	21.0	20.0	105	78-123

ALS Group USA, Corp.
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QC/QC Report

Client: ALS Environmental - Canada **Service Request:**R1607963
Project: Picatinny Arsenal **Date Analyzed:**08/02/16 09:07

Tune Summary
Volatile Organic Compounds by GC/MS

File ID: I:\ACQUDATA\MSVOA6\DATA\080216\D0619.D\ **Analytical Method:** 8260C
Instrument ID: R-MS-06 **Analysis Lot:** 508119

Target Mass	Relative to Mass	Lower Limit %	Upper Limit %	Relative Abundance %	Raw Abundance	Result Pass/Fail
50	95	15	40	19.73	28939	Pass
75	95	30	60	45.84	67229	Pass
95	95	100	100	100.00	146656	Pass
96	95	5	9	6.36	9332	Pass
173	174	0	2	0.00	0	Pass
174	95	50	120	86.75	127229	Pass
175	174	5	9	8.32	10589	Pass
176	174	95	101	96.71	123045	Pass
177	176	5	9	6.76	8319	Pass

Sample Name	Lab Code	File ID:	Date Analyzed:	Q
Continuing Calibration Verification	RQ1609075-02	I:\ACQUDATA\MSVOA6\DATA\080216\D0620.D\	08/02/16 09:52	
Lab Control Sample	RQ1609075-03	I:\ACQUDATA\MSVOA6\DATA\080216\D0621.D\	08/02/16 10:32	
Method Blank	RQ1609075-04	I:\ACQUDATA\MSVOA6\DATA\080216\D0623.D\	08/02/16 11:35	
PY-1028	R1607963-024	I:\ACQUDATA\MSVOA6\DATA\080216\D0624.D\	08/02/16 12:07	
PY-2010C	R1607963-009	I:\ACQUDATA\MSVOA6\DATA\080216\D0625.D\	08/02/16 12:38	
T1R1-TB1	R1607963-007	I:\ACQUDATA\MSVOA6\DATA\080216\D0626.D\	08/02/16 13:11	
PY-1027	R1607963-023	I:\ACQUDATA\MSVOA6\DATA\080216\D0627.D\	08/02/16 13:42	
PY-2037	R1607963-025	I:\ACQUDATA\MSVOA6\DATA\080216\D0628.D\	08/02/16 14:15	
PY-3026	R1607963-026	I:\ACQUDATA\MSVOA6\DATA\080216\D0629.D\	08/02/16 14:46	
PY-1013	R1607963-003	I:\ACQUDATA\MSVOA6\DATA\080216\D0630.D\	08/02/16 15:18	
PY-2022	R1607963-013	I:\ACQUDATA\MSVOA6\DATA\080216\D0631.D\	08/02/16 15:50	
PY-3013	R1607963-020	I:\ACQUDATA\MSVOA6\DATA\080216\D0632.D\	08/02/16 16:26	
PY-2022	RQ1609075-05	I:\ACQUDATA\MSVOA6\DATA\080216\D0637.D\	08/02/16 19:13	
PY-2022	RQ1609075-06	I:\ACQUDATA\MSVOA6\DATA\080216\D0638.D\	08/02/16 19:44	
PY-2010C	RQ1609075-07	I:\ACQUDATA\MSVOA6\DATA\080216\D0639.D\	08/02/16 20:16	
PY-2010C	RQ1609075-08	I:\ACQUDATA\MSVOA6\DATA\080216\D0640.D\	08/02/16 20:47	

ALS Group USA, Corp.
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QA/QC Report

Client: ALS Environmental - Canada **Service Request:**R1607963
Project: Picatinny Arsenal **Date Analyzed:**08/02/16 09:52

Internal Standard Area and RT SUMMARY
Volatile Organic Compounds by GC/MS

File ID: I:\ACQUDATA\MSVOA6\DATA\080216\D0620.D\ **Lab Code:**RQ1609075-02
Instrument ID: R-MS-06 **Analysis Lot:**508119
Analysis Method: 8260C **Signal ID:**

		1,4-Dichlorobenzene-d4		1,4-Difluorobenzene		Chlorobenzene-d5	
		Area	**RT**	**Area**	**RT**	**Area**	**RT**
	ICAL Result ==>	259,398	11.28	509,383	5.82	434,877	9.18
	Upper Limit ==>	518,796	11.78	1,018,766	6.32	869,754	9.68
	Lower Limit ==>	129,699	10.78	254,692	5.32	217,439	8.68
Associated Analyses							
Continuing Calibration Verification	RQ1609075-02	275498	11.29	553704	5.82	463178	9.18
Lab Control Sample	RQ1609075-03	270456	11.28	586070	5.83	485087	9.18
Method Blank	RQ1609075-04	257830	11.28	531219	5.83	453381	9.18
PY-1028	R1607963-024	256245	11.29	527383	5.82	459624	9.18
PY-2010C	R1607963-009	257288	11.28	539129	5.82	454370	9.19
T1R1-TB1	R1607963-007	237472	11.29	528149	5.82	455413	9.18
PY-1027	R1607963-023	254312	11.29	541415	5.82	467479	9.18
PY-2037	R1607963-025	252301	11.28	550593	5.82	462917	9.18
PY-3026	R1607963-026	256195	11.28	556679	5.82	459603	9.18
PY-1013	R1607963-003	239939	11.28	508558	5.83	454162	9.18
PY-2022	R1607963-013	245233	11.29	517826	5.83	449021	9.18
PY-3013	R1607963-020	249801	11.28	517101	5.82	445529	9.18
PY-2022	RQ1609075-05	272401	11.28	543231	5.82	469231	9.18
PY-2022	RQ1609075-06	279295	11.28	549550	5.83	491093	9.18
PY-2010C	RQ1609075-07	285613	11.29	566576	5.83	472428	9.18
PY-2010C	RQ1609075-08	280292	11.29	561834	5.83	469062	9.18

ALS Group USA, Corp.
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QA/QC Report

Client: ALS Environmental - Canada **Service Request:**R1607963
Project: Picatinny Arsenal **Date Analyzed:**08/02/16 09:52

Internal Standard Area and RT SUMMARY
Volatile Organic Compounds by GC/MS

File ID: I:\ACQUDATA\MSVOA6\DATA\080216\D0620.D\ **Lab Code:**RQ1609075-02
Instrument ID: R-MS-06 **Analysis Lot:**508119
Analysis Method: 8260C **Signal ID:**

		Pentafluorobenzene	
		Area	**RT**
	ICAL Result ==>	350,004	4.52
	Upper Limit ==>	700,008	5.02
	Lower Limit ==>	175,002	4.02
Associated Analyses			
Continuing Calibration Verification	RQ1609075-02	362811	4.52
Lab Control Sample	RQ1609075-03	390071	4.52
Method Blank	RQ1609075-04	361200	4.52
PY-1028	R1607963-024	351249	4.52
PY-2010C	R1607963-009	345526	4.53
T1R1-TB1	R1607963-007	349502	4.52
PY-1027	R1607963-023	364125	4.53
PY-2037	R1607963-025	355425	4.52
PY-3026	R1607963-026	362033	4.53
PY-1013	R1607963-003	353176	4.52
PY-2022	R1607963-013	352796	4.52
PY-3013	R1607963-020	338652	4.52
PY-2022	RQ1609075-05	380170	4.52
PY-2022	RQ1609075-06	372264	4.53
PY-2010C	RQ1609075-07	374765	4.52
PY-2010C	RQ1609075-08	373708	4.52

Semivolatile Organic Compounds by GC/MS

ALS Environmental—Rochester Laboratory
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com

Client: ALS Environmental - Canada **Service Request:** R1607963
Project: Picatinny Arsenal
Sample Matrix: Water

SURROGATE RECOVERY SUMMARY
Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Extraction Method: EPA 3510C

Sample Name	Lab Code	2-Fluorobiphenyl 31 - 118	Nitrobenzene-d5 31 - 110	p-Terphenyl-d14 30 - 133
PY-1012	R1607963-002	80	84	118
PY-2009C	R1607963-008	70	81	94
PY-2021	R1607963-012	83	87	127
PY-3012	R1607963-019	77	76	115
Method Blank	RQ1608990-01	83	82	118
Lab Control Sample	RQ1608990-02	85	86	98
Duplicate Lab Control Sample	RQ1608990-03	84	88	102
PY-2021 MS	RQ1608990-06	87	89	104
PY-2021 DMS	RQ1608990-07	86	86	103
Continuing Cal. Verification CCVA	RQ1609213-03			
Initial Calibration ICAL	RQ1609213-04			
Initial Calibration ICAL	RQ1609213-05			
Initial Calibration ICAL	RQ1609213-06			
Initial Calibration ICAL	RQ1609213-07			
Initial Calibration ICAL	RQ1609213-08			
Initial Calibration ICAL	RQ1609213-09			
Initial Calibration ICAL	RQ1609213-10			
Initial Calibration ICAL	RQ1609213-11			

Client: ALS Environmental - Canada **Service Request:** R1607963
Project: Picatinny Arsenal
Sample Matrix: Soil

SURROGATE RECOVERY SUMMARY
Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Extraction Method: EPA 3541

Sample Name	Lab Code	2-Fluorobiphenyl 10 - 102	Nitrobenzene-d5 10 - 95	p-Terphenyl-d14 16 - 126
PY-3005B	R1607963-016	19	22	33
Method Blank	RQ1609061-01	44	40	69
Lab Control Sample	RQ1609061-02	43	41	69
Duplicate Lab Control Sample	RQ1609061-03	43	39	67
PY-3005B MS	RQ1609061-04	17	15	31
PY-3005B DMS	RQ1609061-05	24	25	37

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client:	ALS Environmental - Canada	**Service Request:**	R1607963
Project:	Picatinny Arsenal	**Date Collected:**	07/28/16
Sample Matrix:	Water	**Date Received:**	07/30/16
		Date Analyzed:	08/5/16
		Date Extracted:	08/2/16

Duplicate Matrix Spike Summary
Semivolatile Organic Compounds by GC/MS

Sample Name:	PY-2021	**Units:**	ug/L
Lab Code:	R1607963-012	**Basis:**	NA
Analysis Method:	8270D		
Prep Method:	EPA 3510C		

		Matrix Spike RQ1608990-06			**Duplicate Matrix Spike** RQ1608990-07					
Analyte Name	**Sample Result**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
1,2-Dichlorobenzene	10 U	86.8	100	87	91.8	100	92	17-105	6	30

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

ALS Group USA, Corp.
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QA/QC Report

Client:	ALS Environmental - Canada	**Service Request:**	R1607963
Project:	Picatinny Arsenal	**Date Collected:**	07/29/16
Sample Matrix:	Soil	**Date Received:**	07/30/16
		Date Analyzed:	08/9/16
		Date Extracted:	08/3/16

Duplicate Matrix Spike Summary
Semivolatile Organic Compounds by GC/MS

Sample Name:	PY-3005B	**Units:**	ug/Kg
Lab Code:	R1607963-016	**Basis:**	As Received
Analysis Method:	8270D		
Prep Method:	EPA 3541		

		Matrix Spike RQ1609061-04			**Duplicate Matrix Spike** RQ1609061-05					
Analyte Name	**Sample Result**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
1,2-Dichlorobenzene	69 J	757	3330	21	825	3330	23	12-78	9	30

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

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QA/QC Report

Client:	ALS Environmental - Canada	**Service Request:**	R1607963
Project:	Picatinny Arsenal	**Date Analyzed:**	NA
Sample Matrix:	Water		

Method Blank Summary
Semivolatile Organic Compounds by GC/MS

Sample Name: **Instrument ID:**

Lab Code: **File ID:**

Analysis Method: 8270D **Analysis Lot:**508851

This Method Blank applies to the following analyses.

Sample Name	Lab Code	File ID	Date Analyzed
Initial Calibration	RQ1609213-04	I:\ACQUDATA\5973D\Data\072816\BH243.D\	07/28/16 14:43
Initial Calibration	RQ1609213-05	I:\ACQUDATA\5973D\Data\072816\BH244.D\	07/28/16 15:10
Initial Calibration	RQ1609213-06	I:\ACQUDATA\5973D\Data\072816\BH245.D\	07/28/16 15:38
Initial Calibration	RQ1609213-07	I:\ACQUDATA\5973D\Data\072816\BH246.D\	07/28/16 16:05
Initial Calibration	RQ1609213-08	I:\ACQUDATA\5973D\Data\072816\BH247.D\	07/28/16 16:33
Initial Calibration	RQ1609213-09	I:\ACQUDATA\5973D\Data\072816\BH248.D\	07/28/16 17:00
Initial Calibration	RQ1609213-10	I:\ACQUDATA\5973D\Data\072816\BH249.D\	07/28/16 17:28
Initial Calibration	RQ1609213-11	I:\ACQUDATA\5973D\Data\072816\BH250.D\	07/28/16 17:55
Initial Calibraton Verification	RQ1609213-12	I:\ACQUDATA\5973D\Data\072816\BH251.D\	07/28/16 18:22

ALS Group USA, Corp.
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QA/QC Report

Client:	ALS Environmental - Canada	**Service Request:**	R1607963
Project:	Picatinny Arsenal	**Date Analyzed:**	08/05/16 17:11
Sample Matrix:	Water	**Date Extracted:**	08/02/16

Method Blank Summary
Semivolatile Organic Compounds by GC/MS

Sample Name:	Method Blank	**Instrument ID:**	R-MS-54
Lab Code:	RQ1608990-01	**File ID:**	I:\ACQUDATA\5973D\Data\080516\BH362.D\
Analysis Method:	8270D	**Analysis Lot:**	508851
Prep Method:	EPA 3510C	**Extraction Lot:**	267636

This Method Blank applies to the following analyses.

Sample Name	Lab Code	File ID	Date Analyzed
Lab Control Sample	RQ1608990-02	I:\ACQUDATA\5973D\Data\080516\BH363.D\	08/05/16 17:39
Duplicate Lab Control Sample	RQ1608990-03	I:\ACQUDATA\5973D\Data\080516\BH364.D\	08/05/16 18:07
PY-1012	R1607963-002	I:\ACQUDATA\5973D\Data\080516\BH365.D\	08/05/16 18:34
PY-2009C	R1607963-008	I:\ACQUDATA\5973D\Data\080516\BH366.D\	08/05/16 19:02
PY-2021	R1607963-012	I:\ACQUDATA\5973D\Data\080516\BH367.D\	08/05/16 19:29
PY-2021	RQ1608990-06	I:\ACQUDATA\5973D\Data\080516\BH368.D\	08/05/16 19:57
PY-2021	RQ1608990-07	I:\ACQUDATA\5973D\Data\080516\BH369.D\	08/05/16 20:24
PY-3012	R1607963-019	I:\ACQUDATA\5973D\Data\080516\BH370.D\	08/05/16 20:53

ALS Group USA, Corp.
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QA/QC Report

Client:	ALS Environmental - Canada	**Service Request:**	R1607963
Project:	Picatinny Arsenal	**Date Analyzed:**	08/09/16 08:56
Sample Matrix:	Soil	**Date Extracted:**	08/03/16

Method Blank Summary
Semivolatile Organic Compounds by GC/MS

Sample Name:	Method Blank	**Instrument ID:**	R-MS-54
Lab Code:	RQ1609061-01	**File ID:**	I:\ACQUDATA\5973D\Data\080916\BH405.D\
Analysis Method:	8270D	**Analysis Lot:**	509246
Prep Method:	EPA 3541	**Extraction Lot:**	267724

This Method Blank applies to the following analyses.

Sample Name	Lab Code	File ID	Date Analyzed
Lab Control Sample	RQ1609061-02	I:\ACQUDATA\5973D\Data\080916\BH406.D\	08/09/16 09:24
Duplicate Lab Control Sample	RQ1609061-03	I:\ACQUDATA\5973D\Data\080916\BH407.D\	08/09/16 09:52
PY-3005B	R1607963-016	I:\ACQUDATA\5973D\Data\080916\BH416.D\	08/09/16 14:00
PY-3005B	RQ1609061-04	I:\ACQUDATA\5973D\Data\080916\BH417.D\	08/09/16 14:28
PY-3005B	RQ1609061-05	I:\ACQUDATA\5973D\Data\080916\BH418.D\	08/09/16 14:56

ALS Group USA, Corp.
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Analytical Report

Client:	ALS Environmental - Canada	**Service Request:**	R1607963
Project:	Picatinny Arsenal	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	RQ1608990-01	**Basis:**	NA

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,2-Dichlorobenzene	10 U	10	1.0	1	08/05/16 17:11	8/2/16	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2-Fluorobiphenyl	83	31 - 118	08/05/16 17:11	
Nitrobenzene-d5	82	31 - 110	08/05/16 17:11	
p-Terphenyl-d14	118	30 - 133	08/05/16 17:11	

ALS Group USA, Corp.
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Analytical Report

Client:	ALS Environmental - Canada	**Service Request:**	R1607963
Project:	Picatinny Arsenal	**Date Collected:**	NA
Sample Matrix:	Soil	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ug/Kg
Lab Code:	RQ1609061-01	**Basis:**	As Received

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3541

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,2-Dichlorobenzene	330 U	330	36	1	08/09/16 08:56	8/3/16	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2-Fluorobiphenyl	44	10 - 102	08/09/16 08:56	
Nitrobenzene-d5	40	10 - 95	08/09/16 08:56	
p-Terphenyl-d14	69	16 - 126	08/09/16 08:56	

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QA/QC Report

Client:	ALS Environmental - Canada	**Service Request:**	R1607963
Project:	Picatinny Arsenal	**Date Analyzed:**	NA
Sample Matrix:	Water		

Lab Control Sample Summary
Semivolatile Organic Compounds by GC/MS

Sample Name: **Instrument ID:**

Lab Code: **File ID:**

Analysis Method: 8270D **Analysis Lot:**508851

This Lab Control Sample applies to the following analyses.

Sample Name	Lab Code	File ID	Date Analyzed
Initial Calibration	RQ1609213-04	I:\ACQUDATA\5973D\Data\072816\BH243.D\	07/28/16 14:43
Initial Calibration	RQ1609213-05	I:\ACQUDATA\5973D\Data\072816\BH244.D\	07/28/16 15:10
Initial Calibration	RQ1609213-06	I:\ACQUDATA\5973D\Data\072816\BH245.D\	07/28/16 15:38
Initial Calibration	RQ1609213-07	I:\ACQUDATA\5973D\Data\072816\BH246.D\	07/28/16 16:05
Initial Calibration	RQ1609213-08	I:\ACQUDATA\5973D\Data\072816\BH247.D\	07/28/16 16:33
Initial Calibration	RQ1609213-09	I:\ACQUDATA\5973D\Data\072816\BH248.D\	07/28/16 17:00
Initial Calibration	RQ1609213-10	I:\ACQUDATA\5973D\Data\072816\BH249.D\	07/28/16 17:28
Initial Calibration	RQ1609213-11	I:\ACQUDATA\5973D\Data\072816\BH250.D\	07/28/16 17:55
Initial Calibraton Verification	RQ1609213-12	I:\ACQUDATA\5973D\Data\072816\BH251.D\	07/28/16 18:22

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dba ALS Environmental

QA/QC Report

Client:	ALS Environmental - Canada	**Service Request:**	R1607963
Project:	Picatinny Arsenal	**Date Analyzed:**	08/05/16 17:39
Sample Matrix:	Water	**Date Extracted:**	08/02/16

Lab Control Sample Summary
Semivolatile Organic Compounds by GC/MS

Sample Name:	Lab Control Sample	**Instrument ID:**	R-MS-54
Lab Code:	RQ1608990-02	**File ID:**	I:\ACQUDATA\5973D\Data\080516\BH363.D\
Analysis Method:	8270D	**Analysis Lot:**	508851
Prep Method:	EPA 3510C	**Extraction Lot:**	267636

This Lab Control Sample applies to the following analyses.

Sample Name	Lab Code	File ID	Date Analyzed
Method Blank	RQ1608990-01	I:\ACQUDATA\5973D\Data\080516\BH362.D\	08/05/16 17:11
Duplicate Lab Control Sample	RQ1608990-03	I:\ACQUDATA\5973D\Data\080516\BH364.D\	08/05/16 18:07
PY-1012	R1607963-002	I:\ACQUDATA\5973D\Data\080516\BH365.D\	08/05/16 18:34
PY-2009C	R1607963-008	I:\ACQUDATA\5973D\Data\080516\BH366.D\	08/05/16 19:02
PY-2021	R1607963-012	I:\ACQUDATA\5973D\Data\080516\BH367.D\	08/05/16 19:29
PY-2021	RQ1608990-06	I:\ACQUDATA\5973D\Data\080516\BH368.D\	08/05/16 19:57
PY-2021	RQ1608990-07	I:\ACQUDATA\5973D\Data\080516\BH369.D\	08/05/16 20:24
PY-3012	R1607963-019	I:\ACQUDATA\5973D\Data\080516\BH370.D\	08/05/16 20:53

ALS Group USA, Corp.
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QA/QC Report

Client:	ALS Environmental - Canada	**Service Request:**	R1607963
Project:	Picatinny Arsenal	**Date Analyzed:**	08/09/16 09:24
Sample Matrix:	Soil	**Date Extracted:**	08/03/16

Lab Control Sample Summary
Semivolatile Organic Compounds by GC/MS

Sample Name:	Lab Control Sample	**Instrument ID:**	R-MS-54
Lab Code:	RQ1609061-02	**File ID:**	I:\ACQUDATA\5973D\Data\080916\BH406.D\
Analysis Method:	8270D	**Analysis Lot:**	509246
Prep Method:	EPA 3541	**Extraction Lot:**	267724

This Lab Control Sample applies to the following analyses.

Sample Name	Lab Code	File ID	Date Analyzed
Method Blank	RQ1609061-01	I:\ACQUDATA\5973D\Data\080916\BH405.D\	08/09/16 08:56
Duplicate Lab Control Sample	RQ1609061-03	I:\ACQUDATA\5973D\Data\080916\BH407.D\	08/09/16 09:52
PY-3005B	R1607963-016	I:\ACQUDATA\5973D\Data\080916\BH416.D\	08/09/16 14:00
PY-3005B	RQ1609061-04	I:\ACQUDATA\5973D\Data\080916\BH417.D\	08/09/16 14:28
PY-3005B	RQ1609061-05	I:\ACQUDATA\5973D\Data\080916\BH418.D\	08/09/16 14:56

ALS Group USA, Corp.
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QA/QC Report

Client: ALS Environmental - Canada
Project: Picatinny Arsenal
Sample Matrix: Water

Service Request: R1607963
Date Analyzed: 08/05/16

Duplicate Lab Control Sample Summary
Semivolatile Organic Compounds by GC/MS

Units:ug/L
Basis:NA

			Lab Control Sample RQ1608990-02		Duplicate Lab Control Sample RQ1608990-03					
Analyte Name	**Analytical Method**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
1,2-Dichlorobenzene	8270D	63.9	100	64	61.3	100	61	23-130	5	30

ALS Group USA, Corp.
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QA/QC Report

Client: ALS Environmental - Canada
Project: Picatinny Arsenal
Sample Matrix: Soil

Service Request: R1607963
Date Analyzed: 08/09/16

Duplicate Lab Control Sample Summary
Semivolatile Organic Compounds by GC/MS

Units:ug/Kg
Basis: As Received

			Lab Control Sample RQ1609061-02		Duplicate Lab Control Sample RQ1609061-03					
Analyte Name	**Analytical Method**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
1,2-Dichlorobenzene	8270D	1350	3330	41	1150	3330	35	24-117	16	30

Client: ALS Environmental - Canada **Service Request:**R1607963
Project: Picatinny Arsenal **Date Analyzed:**07/28/16 13:53

Tune Summary
Semivolatile Organic Compounds by GC/MS

File ID: I:\ACQUDATA\5973D\Data\072816\BH241.D\ **Analytical Method:** 8270D
Instrument ID: R-MS-54 **Analysis Lot:** 508851

Target Mass	Relative to Mass	Lower Limit %	Upper Limit %	Relative Abundance %	Raw Abundance	Result Pass/Fail
51	198	10	80	44.46	18917	Pass
68	69	0.00	2	0.93	183	Pass
69	198	0.00	100	46.06	19597	Pass
70	69	0.00	2	0.16	32	Pass
127	198	10	80	56.06	23849	Pass
197	198	0.00	2	0.72	306	Pass
198	198	100	100	100.00	42544	Pass
199	198	5	9	6.11	2599	Pass
275	198	10	60	23.93	10182	Pass
365	198	1	100	3.08	1311	Pass
441	442	0.01	24	14.91	5109	Pass
442	442	100	100	100.00	34269	Pass
443	442	15	24	17.95	6152	Pass
51	198	10	80	40.60	23344	Pass
68	69	0.00	2	1.11	308	Pass
69	198	0.00	100	48.45	27854	Pass
70	69	0.00	2	0.79	221	Pass
127	198	10	80	54.72	31459	Pass
197	198	0.00	2	0.34	194	Pass
198	198	100	100	100.00	57491	Pass
199	198	5	9	6.59	3789	Pass
275	198	10	60	22.69	13043	Pass
365	198	1	100	3.95	2269	Pass
441	442	0.01	24	16.14	7308	Pass
442	442	100	100	100.00	45267	Pass
443	442	15	24	20.02	9064	Pass

Sample Name	Lab Code	File ID:	Date Analyzed:	Q
Initial Calibration	RQ1609213-04	I:\ACQUDATA\5973D\Data\072816\BH243.D\	07/28/16 14:43	
Initial Calibration	RQ1609213-05	I:\ACQUDATA\5973D\Data\072816\BH244.D\	07/28/16 15:10	
Initial Calibration	RQ1609213-06	I:\ACQUDATA\5973D\Data\072816\BH245.D\	07/28/16 15:38	
Initial Calibration	RQ1609213-07	I:\ACQUDATA\5973D\Data\072816\BH246.D\	07/28/16 16:05	
Initial Calibration	RQ1609213-08	I:\ACQUDATA\5973D\Data\072816\BH247.D\	07/28/16 16:33	
Initial Calibration	RQ1609213-09	I:\ACQUDATA\5973D\Data\072816\BH248.D\	07/28/16 17:00	
Initial Calibration	RQ1609213-10	I:\ACQUDATA\5973D\Data\072816\BH249.D\	07/28/16 17:28	

Client: ALS Environmental - Canada **Service Request:**R1607963
Project: Picatinny Arsenal **Date Analyzed:**07/28/16 13:53

Tune Summary
Semivolatile Organic Compounds by GC/MS

Initial Calibration	RQ1609213-11	I:\ACQUDATA\5973D\Data\072816\BH250.D\	07/28/16 17:55
Continuing Calibration Verification	RQ1609213-02	I:\ACQUDATA\5973D\Data\080516\BH349.D\	08/05/16 10:59
Continuing Cal. Verification	RQ1609213-03	I:\ACQUDATA\5973D\Data\080516\BH350.D\	08/05/16 11:39
Method Blank	RQ1608990-01	I:\ACQUDATA\5973D\Data\080516\BH362.D\	08/05/16 17:11
Lab Control Sample	RQ1608990-02	I:\ACQUDATA\5973D\Data\080516\BH363.D\	08/05/16 17:39
Duplicate Lab Control Sample	RQ1608990-03	I:\ACQUDATA\5973D\Data\080516\BH364.D\	08/05/16 18:07
PY-1012	R1607963-002	I:\ACQUDATA\5973D\Data\080516\BH365.D\	08/05/16 18:34
PY-2009C	R1607963-008	I:\ACQUDATA\5973D\Data\080516\BH366.D\	08/05/16 19:02
PY-2021	R1607963-012	I:\ACQUDATA\5973D\Data\080516\BH367.D\	08/05/16 19:29
PY-2021	RQ1608990-06	I:\ACQUDATA\5973D\Data\080516\BH368.D\	08/05/16 19:57
PY-2021	RQ1608990-07	I:\ACQUDATA\5973D\Data\080516\BH369.D\	08/05/16 20:24
PY-3012	R1607963-019	I:\ACQUDATA\5973D\Data\080516\BH370.D\	08/05/16 20:53

ALS Group USA, Corp.
dba ALS Environmental

QC/QC Report

Client: ALS Environmental - Canada **Service Request:**R1607963
Project: Picatinny Arsenal **Date Analyzed:**07/28/16 13:53

Tune Summary
Semivolatile Organic Compounds by GC/MS

File ID: I:\ACQUDATA\5973D\Data\080916\BH401.D\ **Analytical Method:** 8270D
Instrument ID: R-MS-54 **Analysis Lot:** 509246

Target Mass	Relative to Mass	Lower Limit %	Upper Limit %	Relative Abundance %	Raw Abundance	Result Pass/Fail
51	198	10	80	44.55	24068	Pass
68	69	0.00	2	1.81	460	Pass
69	198	0.00	100	47.06	25419	Pass
70	69	0.00	2	0.65	165	Pass
127	198	10	80	58.93	31835	Pass
197	198	0.00	2	0.21	116	Pass
198	198	100	100	100.00	54019	Pass
199	198	5	9	6.84	3696	Pass
275	198	10	60	23.44	12661	Pass
365	198	1	100	3.82	2062	Pass
441	442	0.01	24	17.50	7026	Pass
442	442	100	100	100.00	40142	Pass
443	442	15	24	20.99	8426	Pass

Sample Name	Lab Code	File ID:	Date Analyzed:	Q
Continuing Calibration Verification	RQ1609350-02	I:\ACQUDATA\5973D\Data\080916\BH402.D\	08/09/16 07:30	
Continuing Cal. Verification	RQ1609350-03	I:\ACQUDATA\5973D\Data\080916\BH403.D\	08/09/16 07:57	
Method Blank	RQ1609061-01	I:\ACQUDATA\5973D\Data\080916\BH405.D\	08/09/16 08:56	
Lab Control Sample	RQ1609061-02	I:\ACQUDATA\5973D\Data\080916\BH406.D\	08/09/16 09:24	
Duplicate Lab Control Sample	RQ1609061-03	I:\ACQUDATA\5973D\Data\080916\BH407.D\	08/09/16 09:52	
PY-3005B	R1607963-016	I:\ACQUDATA\5973D\Data\080916\BH416.D\	08/09/16 14:00	
PY-3005B	RQ1609061-04	I:\ACQUDATA\5973D\Data\080916\BH417.D\	08/09/16 14:28	
PY-3005B	RQ1609061-05	I:\ACQUDATA\5973D\Data\080916\BH418.D\	08/09/16 14:56	

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: ALS Environmental - Canada **Service Request:**R1607963
Project: Picatinny Arsenal **Date Analyzed:**08/05/16 10:59

Internal Standard Area and RT SUMMARY
Semivolatile Organic Compounds by GC/MS

File ID: I:\ACQUDATA\5973D\Data\080516\BH349.D\ **Lab Code:**RQ1609213-02
Instrument ID: R-MS-54 **Analysis Lot:**508851
Analysis Method: 8270D **Signal ID:**

		1,4-Dichlorobenzene-d4		Acenaphthene-d10		Chrysene-d12	
		Area	**RT**	**Area**	**RT**	**Area**	**RT**
	ICAL Result ==>						
	Upper Limit ==>						
	Lower Limit ==>						
Associated Analyses							
Continuing Calibration Verification	RQ1609213-02	112908	4.78	262306	7.65	390336	12.37
Continuing Cal. Verification	RQ1609213-03	92480	4.78	215621	7.65	273835	12.37
Method Blank	RQ1608990-01	77354	4.78	181562	7.65	227572	12.36
Lab Control Sample	RQ1608990-02	75162	4.78	176990	7.65	271051	12.37
Duplicate Lab Control Sample	RQ1608990-03	79083	4.78	187636	7.65	277950	12.37
PY-1012	R1607963-002	77264	4.78	179720	7.65	225792	12.36
PY-2009C	R1607963-008	77796	4.78	174019	7.65	213621	12.36
PY-2021	R1607963-012	75537	4.78	180413	7.65	212624	12.36
PY-2021	RQ1608990-06	76624	4.78	178618	7.65	265260	12.37
PY-2021	RQ1608990-07	77493	4.78	180211	7.65	266662	12.37
PY-3012	R1607963-019	78144	4.78	178515	7.65	220051	12.36

ALS Group USA, Corp.
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QA/QC Report

Client: ALS Environmental - Canada **Service Request:**R1607963
Project: Picatinny Arsenal **Date Analyzed:**08/05/16 10:59

Internal Standard Area and RT SUMMARY
Semivolatile Organic Compounds by GC/MS

File ID: I:\ACQUDATA\5973D\Data\080516\BH349.D\ **Lab Code:**RQ1609213-02
Instrument ID: R-MS-54 **Analysis Lot:**508851
Analysis Method: 8270D **Signal ID:**

		Naphthalene-d8		Perylene-d12		Phenanthrene-d10	
		Area	**RT**	**Area**	**RT**	**Area**	**RT**
	ICAL Result ==>						
	Upper Limit ==>						
	Lower Limit ==>						
Associated Analyses							
Continuing Calibration Verification	RQ1609213-02	486138	5.95	368819	15.30	413703	9.11
Continuing Cal. Verification	RQ1609213-03	377087	5.95	293314	15.29	339935	9.11
Method Blank	RQ1608990-01	318341	5.94	256912	15.29	266650	9.11
Lab Control Sample	RQ1608990-02	315039	5.95	267067	15.29	273312	9.11
Duplicate Lab Control Sample	RQ1608990-03	331595	5.95	270431	15.29	285143	9.11
PY-1012	R1607963-002	309654	5.94	261464	15.29	299179	9.11
PY-2009C	R1607963-008	307776	5.94	250138	15.29	278286	9.11
PY-2021	R1607963-012	307273	5.94	250442	15.29	289457	9.11
PY-2021	RQ1608990-06	316953	5.95	252006	15.29	276069	9.11
PY-2021	RQ1608990-07	324140	5.95	267546	15.29	275092	9.11
PY-3012	R1607963-019	316273	5.94	255089	15.29	295800	9.11

ALS Group USA, Corp.
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QA/QC Report

Client: ALS Environmental - Canada **Service Request:**R1607963
Project: Picatinny Arsenal **Date Analyzed:**08/09/16 07:30

Internal Standard Area and RT SUMMARY
Semivolatile Organic Compounds by GC/MS

File ID: I:\ACQUDATA\5973D\Data\080916\BH402.D\ **Lab Code:**RQ1609350-02
Instrument ID: R-MS-54 **Analysis Lot:**509246
Analysis Method: 8270D **Signal ID:**

		1,4-Dichlorobenzene-d4		Acenaphthene-d10		Chrysene-d12	
		Area	**RT**	**Area**	**RT**	**Area**	**RT**
	ICAL Result ==>	98,403	4.78	233,218	7.65	333,643	12.37
	Upper Limit ==>	196,806	5.28	466,436	8.15	667,286	12.87
	Lower Limit ==>	49,202	4.28	116,609	7.15	166,822	11.87
Associated Analyses							
Continuing Calibration Verification	RQ1609350-02	95144	4.78	227249	7.65	323222	12.37
Continuing Cal. Verification	RQ1609350-03	89408	4.78	207859	7.65	269081	12.36
Method Blank	RQ1609061-01	81451	4.78	183684	7.65	260724	12.36
Lab Control Sample	RQ1609061-02	82925	4.79	199918	7.65	299978	12.37
Duplicate Lab Control Sample	RQ1609061-03	81475	4.78	188129	7.65	282509	12.37
PY-3005B	R1607963-016	86711	4.78	198686	7.65	238609	12.37
PY-3005B	RQ1609061-04	81781	4.78	185655	7.65	163519	12.40
PY-3005B	RQ1609061-05	86659	4.78	196725	7.65	257652	12.38

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QA/QC Report

Client: ALS Environmental - Canada **Service Request:**R1607963
Project: Picatinny Arsenal **Date Analyzed:**08/09/16 07:30

Internal Standard Area and RT SUMMARY
Semivolatile Organic Compounds by GC/MS

File ID: I:\ACQUDATA\5973D\Data\080916\BH402.D\ **Lab Code:**RQ1609350-02
Instrument ID: R-MS-54 **Analysis Lot:**509246
Analysis Method: 8270D **Signal ID:**

		Naphthalene-d8		Perylene-d12		Phenanthrene-d10	
		Area	**RT**	**Area**	**RT**	**Area**	**RT**
	ICAL Result ==>	410,503	5.95	331,090	15.29	364,347	9.11
	Upper Limit ==>	821,006	6.45	662,180	15.79	728,694	9.61
	Lower Limit ==>	205,252	5.45	165,545	14.79	182,174	8.61
Associated Analyses							
Continuing Calibration Verification	RQ1609350-02	399892	5.95	320338	15.30	356235	9.11
Continuing Cal. Verification	RQ1609350-03	366339	5.94	285369	15.29	339033	9.11
Method Blank	RQ1609061-01	318884	5.95	273761	15.29	308853	9.11
Lab Control Sample	RQ1609061-02	349886	5.94	296307	15.29	289963	9.11
Duplicate Lab Control Sample	RQ1609061-03	342511	5.95	284772	15.29	278796	9.11
PY-3005B	R1607963-016	354413	5.94	272236	15.29	330527	9.13
PY-3005B	RQ1609061-04	339534	5.94	221265	15.29	254918	9.14
PY-3005B	RQ1609061-05	368279	5.95	279925	15.29	334405	9.13

General Chemistry

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Analytical Report

Client:	ALS Environmental - Canada	**Service Request:**	R1607963
Project:	Picatinny Arsenal	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Basis:**	NA
Lab Code:	R1607963-MB1		

Inorganic Parameters

Analyte Name	Analysis Method	Result		Units	MRL	Dil.	Date Analyzed	Q
Solids, Total	SM 2540 B-1997(2011)	10	U	mg/L	10	1	08/02/16 14:15	
Solids, Total Dissolved (TDS)	SM 2540 C-1997(2011)	10	U	mg/L	10	1	08/02/16 10:40	
Solids, Total Suspended (TSS)	SM 2540 D-1997(2011)	1.0	U	mg/L	1.0	1	08/03/16 13:55	

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Analytical Report

Client:	ALS Environmental - Canada	**Service Request:**	R1607963
Project:	Picatinny Arsenal	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Basis:**	NA
Lab Code:	R1607963-MB2		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Solids, Total Suspended (TSS)	SM 2540 D-1997(2011)	1.0 U	mg/L	1.0	1	08/04/16 13:00	

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QA/QC Report

Client: ALS Environmental - Canada
Project: Picatinny Arsenal
Sample Matrix: Water

Service Request: R1607963
Date Analyzed: 08/02/16 - 08/03/16

Lab Control Sample Summary
General Chemistry Parameters

Units:mg/L
Basis:NA

Lab Control Sample
R1607963-LCS1

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Solids, Total	SM 2540 B-1997(2011)	289	300	96	90-110
Solids, Total Dissolved (TDS)	SM 2540 C-1997(2011)	902	914	99	90-110
Solids, Total Suspended (TSS)	SM 2540 D-1997(2011)	211	214	99	80-120

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QA/QC Report

Client: ALS Environmental - Canada
Project: Picatinny Arsenal
Sample Matrix: Water

Service Request: R1607963
Date Analyzed: 08/04/16

Lab Control Sample Summary
General Chemistry Parameters

Units:mg/L
Basis:NA

Lab Control Sample
R1607963-LCS2

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Solids, Total Suspended (TSS)	SM 2540 D-1997(2011)	213	214	99	80-120

Raw Data

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Volatile Organic Compounds by GC/MS

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ALS Group USA, Corp.
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Analytical Report

Client:	ALS Environmental - Canada	**Service Request:**	R1607963
Project:	Picatinny Arsenal	**Date Collected:**	07/27/16 19:30
Sample Matrix:	Water	**Date Received:**	07/30/16 13:45
Sample Name:	PY-1013	**Units:**	ug/L
Lab Code:	R1607963-003	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Benzene	1.0 U	1.0	0.20	1	08/02/16 15:18	
Trichloroethene (TCE)	1.0 U	1.0	0.22	1	08/02/16 15:18	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	102	85 - 122	08/02/16 15:18	
Dibromofluoromethane	107	89 - 119	08/02/16 15:18	
Toluene-d8	109	87 - 121	08/02/16 15:18	

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Analytical Report

Client:	ALS Environmental - Canada	**Service Request:**	R1607963
Project:	Picatinny Arsenal	**Date Collected:**	07/27/16 08:00
Sample Matrix:	Water	**Date Received:**	07/30/16 13:45
Sample Name:	T1R1-TB1	**Units:**	ug/L
Lab Code:	R1607963-007	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Benzene	1.0 U	1.0	0.20	1	08/02/16 13:11	
Trichloroethene (TCE)	1.0 U	1.0	0.22	1	08/02/16 13:11	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	103	85 - 122	08/02/16 13:11	
Dibromofluoromethane	104	89 - 119	08/02/16 13:11	
Toluene-d8	110	87 - 121	08/02/16 13:11	

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Analytical Report

Client:	ALS Environmental - Canada	**Service Request:**	R1607963
Project:	Picatinny Arsenal	**Date Collected:**	07/28/16 18:00
Sample Matrix:	Water	**Date Received:**	07/30/16 13:45
Sample Name:	PY-2010C	**Units:**	ug/L
Lab Code:	R1607963-009	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Benzene	1.0 U	1.0	0.20	1	08/02/16 12:38	
Trichloroethene (TCE)	1.0 U	1.0	0.22	1	08/02/16 12:38	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	105	85 - 122	08/02/16 12:38	
Dibromofluoromethane	101	89 - 119	08/02/16 12:38	
Toluene-d8	107	87 - 121	08/02/16 12:38	

ALS Group USA, Corp.
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Analytical Report

Client:	ALS Environmental - Canada	**Service Request:**	R1607963
Project:	Picatinny Arsenal	**Date Collected:**	07/28/16 17:05
Sample Matrix:	Water	**Date Received:**	07/30/16 13:45
Sample Name:	PY-2022	**Units:**	ug/L
Lab Code:	R1607963-013	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Benzene	1.0 U	1.0	0.20	1	08/02/16 15:50	
Trichloroethene (TCE)	1.0 U	1.0	0.22	1	08/02/16 15:50	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	105	85 - 122	08/02/16 15:50	
Dibromofluoromethane	106	89 - 119	08/02/16 15:50	
Toluene-d8	102	87 - 121	08/02/16 15:50	

ALS Group USA, Corp.
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Analytical Report

Client:	ALS Environmental - Canada	**Service Request:**	R1607963
Project:	Picatinny Arsenal	**Date Collected:**	07/29/16 15:25
Sample Matrix:	Water	**Date Received:**	07/30/16 13:45
Sample Name:	PY-3013	**Units:**	ug/L
Lab Code:	R1607963-020	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Benzene	**0.34 J**	1.0	0.20	1	08/02/16 16:26	
Trichloroethene (TCE)	1.0 U	1.0	0.22	1	08/02/16 16:26	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	104	85 - 122	08/02/16 16:26	
Dibromofluoromethane	106	89 - 119	08/02/16 16:26	
Toluene-d8	101	87 - 121	08/02/16 16:26	

ALS Group USA, Corp.
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Analytical Report

Client:	ALS Environmental - Canada	**Service Request:**	R1607963
Project:	Picatinny Arsenal	**Date Collected:**	07/27/16 19:35
Sample Matrix:	Water	**Date Received:**	07/30/16 13:45
Sample Name:	PY-1027	**Units:**	ug/L
Lab Code:	R1607963-023	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Benzene	1.0 U	1.0	0.20	1	08/02/16 13:42	
Trichloroethene (TCE)	1.0 U	1.0	0.22	1	08/02/16 13:42	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	102	85 - 122	08/02/16 13:42	
Dibromofluoromethane	103	89 - 119	08/02/16 13:42	
Toluene-d8	108	87 - 121	08/02/16 13:42	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client:	ALS Environmental - Canada	**Service Request:**	R1607963
Project:	Picatinny Arsenal	**Date Collected:**	07/27/16 19:30
Sample Matrix:	Water	**Date Received:**	07/30/16 13:45
Sample Name:	PY-1028	**Units:**	ug/L
Lab Code:	R1607963-024	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Benzene	1.0 U	1.0	0.20	1	08/02/16 12:07	
Trichloroethene (TCE)	1.0 U	1.0	0.22	1	08/02/16 12:07	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	101	85 - 122	08/02/16 12:07	
Dibromofluoromethane	103	89 - 119	08/02/16 12:07	
Toluene-d8	109	87 - 121	08/02/16 12:07	

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Analytical Report

Client:	ALS Environmental - Canada	**Service Request:**	R1607963
Project:	Picatinny Arsenal	**Date Collected:**	07/28/16 17:15
Sample Matrix:	Water	**Date Received:**	07/30/16 13:45
Sample Name:	PY-2037	**Units:**	ug/L
Lab Code:	R1607963-025	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Benzene	1.0 U	1.0	0.20	1	08/02/16 14:15	
Trichloroethene (TCE)	1.0 U	1.0	0.22	1	08/02/16 14:15	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	102	85 - 122	08/02/16 14:15	
Dibromofluoromethane	102	89 - 119	08/02/16 14:15	
Toluene-d8	107	87 - 121	08/02/16 14:15	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client:	ALS Environmental - Canada	**Service Request:**	R1607963
Project:	Picatinny Arsenal	**Date Collected:**	07/29/16 15:10
Sample Matrix:	Water	**Date Received:**	07/30/16 13:45
Sample Name:	PY-3026	**Units:**	ug/L
Lab Code:	R1607963-026	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Benzene	1.0 U	1.0	0.20	1	08/02/16 14:46	
Trichloroethene (TCE)	1.0 U	1.0	0.22	1	08/02/16 14:46	

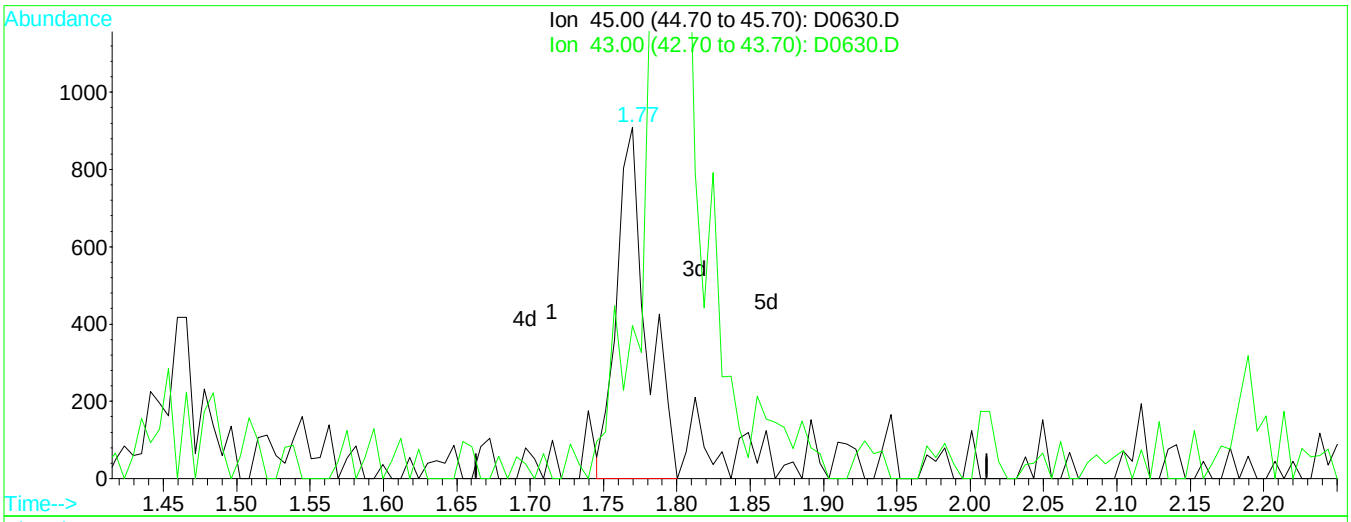
Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	103	85 - 122	08/02/16 14:46	
Dibromofluoromethane	100	89 - 119	08/02/16 14:46	
Toluene-d8	106	87 - 121	08/02/16 14:46	

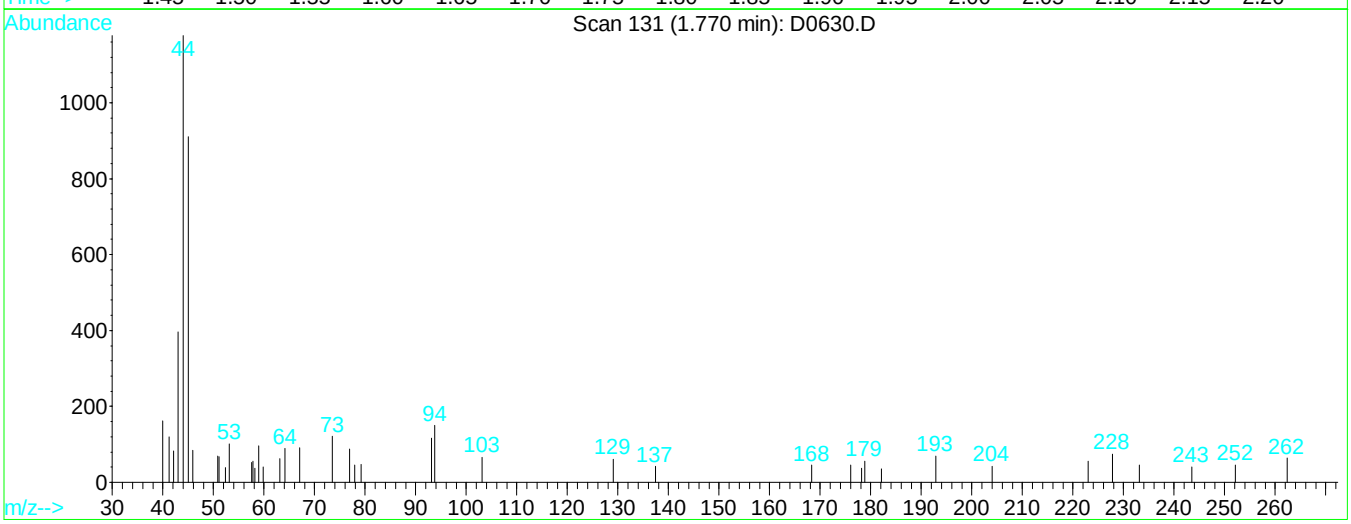
Quantitation Report (Qedit)

1st DL 08/03/16
2nd FW 08/03/16

Data File : I:\ACQUDATA\MSVOA6\DATA\080216\D0630.D Vial: 15
Acq On : 2 Aug 2016 3:18 pm Operator: D.LIPANI
Sample : R1607963-003|1.0 Inst : MS#6
Misc : ALS-Canada 8260C 15945 T4 Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Aug 3 13:42 2016 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA6\METHODS\W071416.M (RTE Integrator)
Title : 8260C / 624 WATERS
Last Update : Mon Jul 18 16:21:59 2016
Response via : Multiple Level Calibration





TIC: D0630.D

(13) 2-Propanol

1.77min 13.44ug/L m

response 1290

Ion	Exp%	Act%
45.00	100	100
43.00	16.10	43.52#
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

Peak not found.

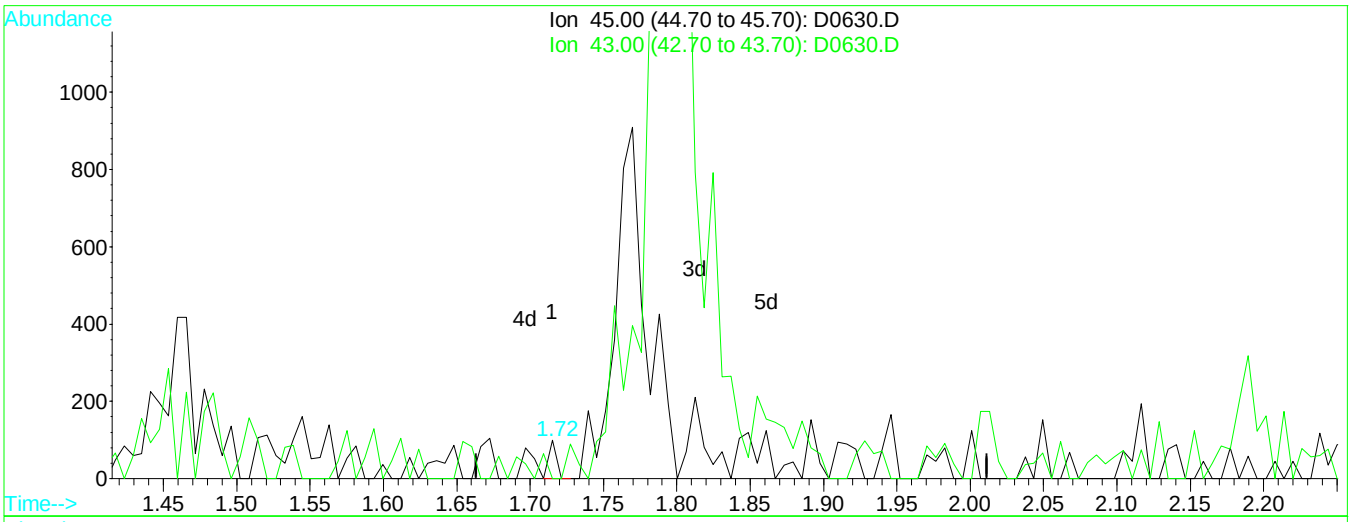
08/03/16

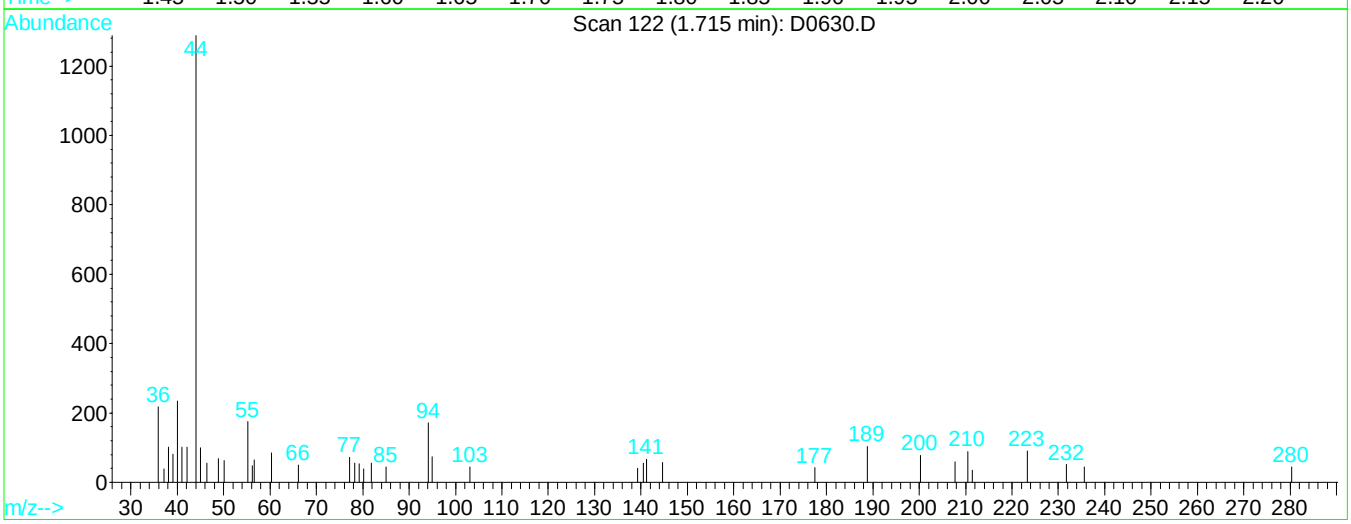
1st DL 08/03/16
2nd FJ 08/03/16

Quantitation Report (Qedit)

Data File : I:\ACQUDATA\MSVOA6\DATA\080216\D0630.D Vial: 15
Acq On : 2 Aug 2016 3:18 pm Operator: D.LIPANI
Sample : R1607963-003|1.0 Inst : MS#6
Misc : ALS-Canada 8260C 15945 T4 Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Aug 3 13:42 2016 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA6\METHODS\W071416.M (RTE Integrator)
Title : 8260C / 624 WATERS
Last Update : Mon Jul 18 16:21:59 2016
Response via : Multiple Level Calibration





TIC: D0630.D

(13) 2-Propanol

1.72min 0.38ug/L

response 36

Ion	Exp%	Act%
45.00	100	100
43.00	16.10	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

Before

08/03/16

1st DL 08/03/16
2nd FJ 08/03/16

Quantitation Report (QT Reviewed)

Data File : I:\ACQUDATA\MSVOA6\DATA\080216\D0630.D Vial: 15
Acq On : 2 Aug 2016 3:18 pm Operator: D.LIPANI
Sample : R1607963-003|1.0 Inst : MS#6
Misc : ALS-Canada 8260C 15945 T4 Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Aug 3 13:44 2016 Quant Results File: W071416.RES

Quant Method : I:\ACQUDATA\M...\W071416.M (RTE Integrator)
Title : 8260C / 624 WATERS
Last Update : Mon Jul 18 16:21:59 2016
Response via : Initial Calibration
DataAcq Meth : W071416

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.52	168	353176	50.00	ug/L	0.00
40) 1,4-Difluorobenzene	5.83	114	508558	50.00	ug/L	0.00
69) d5-Chlorobenzene	9.18	117	454162	50.00	ug/L	0.00
89) 1,4-Dichlorobenzene-d4	11.28	152	239939	50.00	ug/L	0.00

System Monitoring Compounds						
41) surr4,Dibrflmethane	3.79	113	175041	53.45	ug/L	0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 106.90%			
43) surr1,1,2-dichloroethane-d	4.40	65	151361	51.74	ug/L	0.00
Spiked Amount 50.000	Range 65 - 130		Recovery = 103.48%			
67) SURR3,Toluene-d8	7.87	98	556924	54.44	ug/L	0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 108.88%			
88) SURR2,BFB	10.24	95	221422	50.75	ug/L	0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 101.50%			

Target Compounds						Qvalue
13) 2-Propanol	1.77	45	1290m	13.44	ug/L	
14) Acetone	1.79	43	5753	11.64	ug/L	98
20) Methylene Chloride	2.13	84	2220	0.60	ug/L #	82
60) n-Propyl Acetate	6.73	43	24	Below Cal	#	54
68) Toluene	7.94	91	10572	0.80	ug/L	95

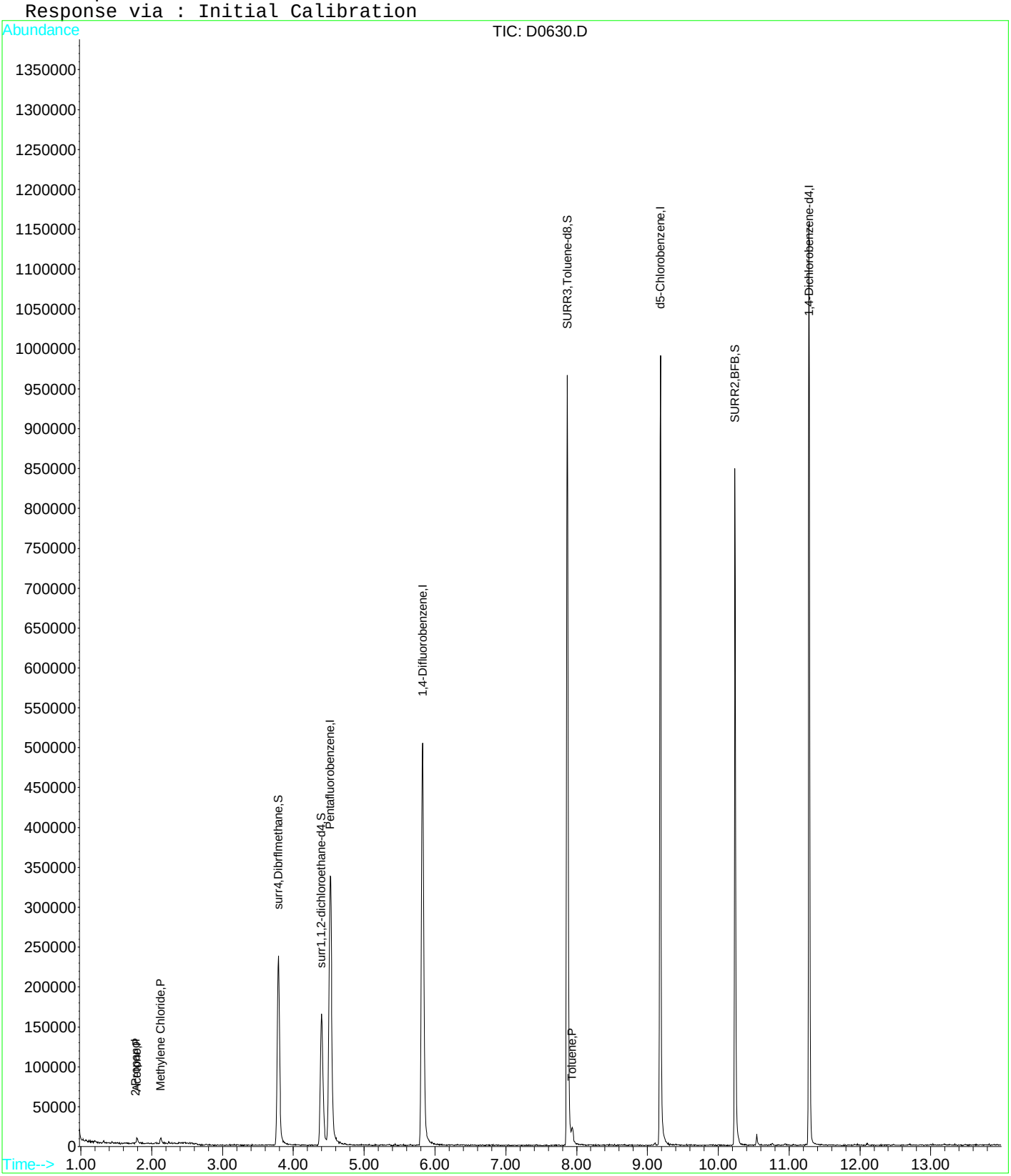
(#) = qualifier out of range (m) = manual integration

Quantitation Report

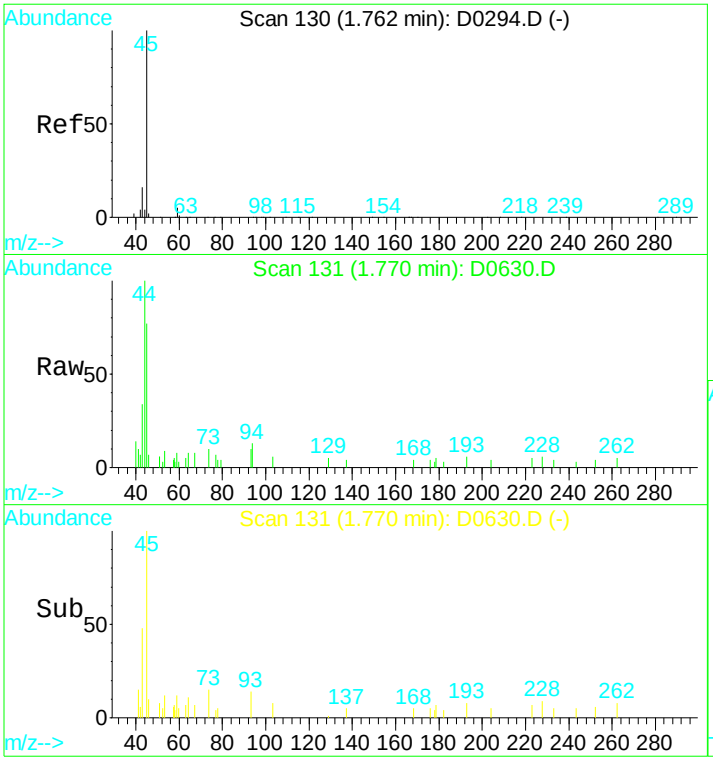
1st DL 08/03/16
2nd FN 08/03/16

Data File : I:\ACQUDATA\MSVOA6\DATA\080216\D0630.D Vial: 15
Acq On : 2 Aug 2016 3:18 pm Operator: D.LIPANI
Sample : R1607963-003|1.0 Inst : MS#6
Misc : ALS-Canada 8260C 15945 T4 Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Aug 3 13:44 2016 Quant Results File: W071416.RES

Method : I:\ACQUDATA\MSVOA6\METHODS\W071416.M (RTE Integrator)
Title : 8260C / 624 WATERS
Last Update : Mon Jul 18 16:21:59 2016
Response via : Initial Calibration



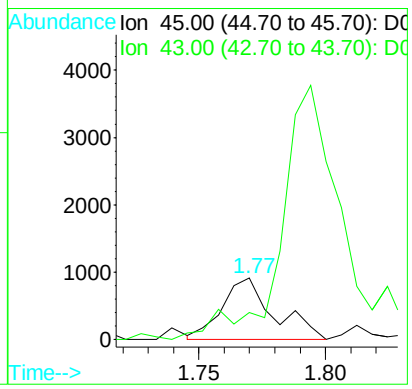
1st DL 08/03/16
2nd FJ 08/03/16

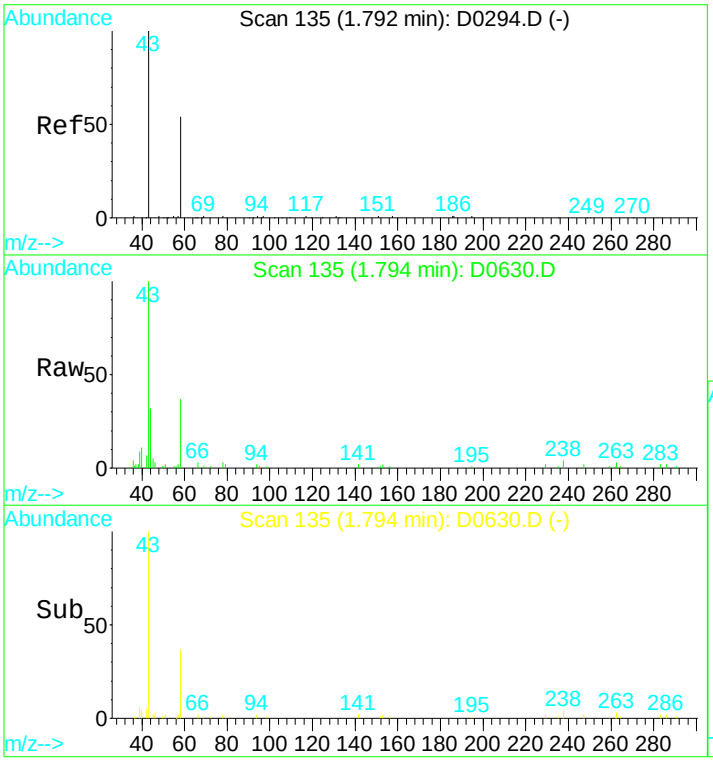


#13
2-Propanol
Concen: 13.44 ug/L m
RT: 1.77 min Scan# 131
Delta R.T. 0.01 min
Lab File: D0630.D
Acq: 2 Aug 2016 3:18 pm

Tgt Ion: 45 Resp: 1290

Ion	Ratio	Lower	Upper
45	100		
43	43.5	0.0	36.1#

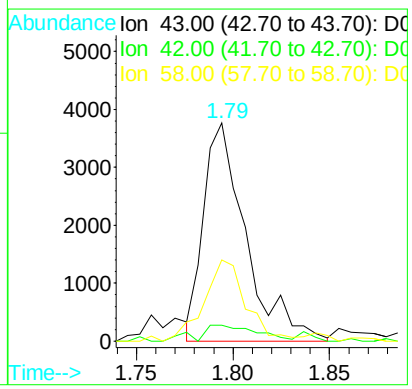




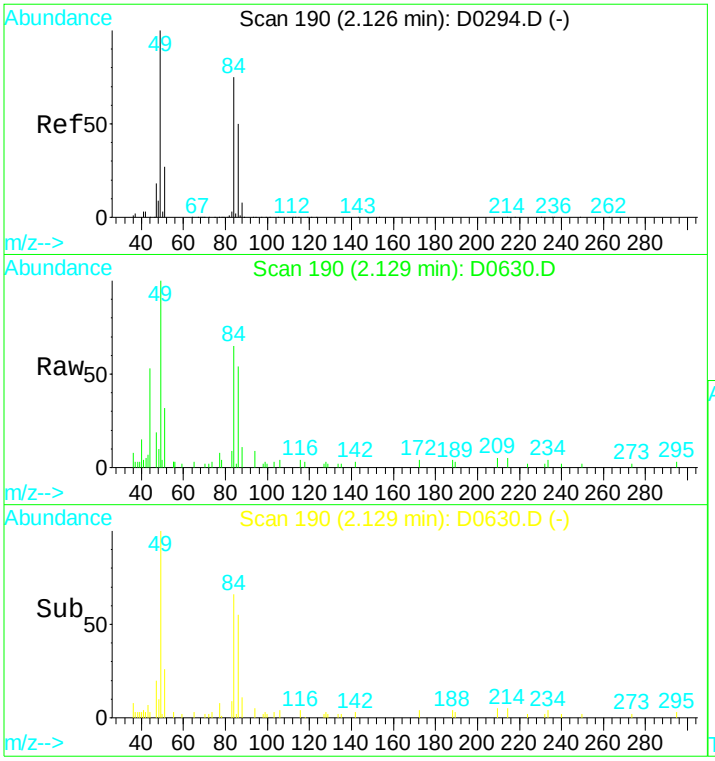
#14
Acetone
Concen: 11.64 ug/L
RT: 1.79 min Scan# 135
Delta R.T. 0.00 min
Lab File: D0630.D
Acq: 2 Aug 2016 3:18 pm

Tgt Ion: 43 Resp: 5753

Ion	Ratio	Lower	Upper
43	100		
42	7.2	0.0	27.9
58	37.2	16.0	56.0



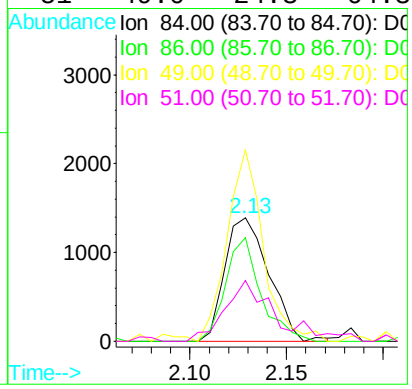
1st DL 08/03/16
2nd FJ 08/03/16

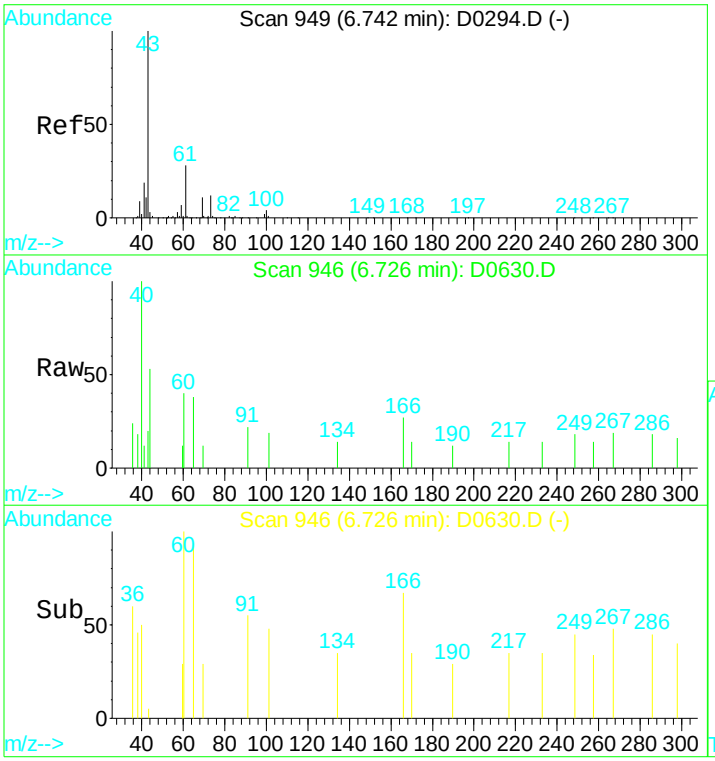


#20
Methylene Chloride
Concen: 0.60 ug/L
RT: 2.13 min Scan# 190
Delta R.T. 0.00 min
Lab File: D0630.D
Acq: 2 Aug 2016 3:18 pm

Tgt Ion: 84 Resp: 2220

Ion	Ratio	Lower	Upper
84	100		
86	84.0	46.3	86.3
49	154.8	112.8	152.8#
51	49.0	24.3	64.3

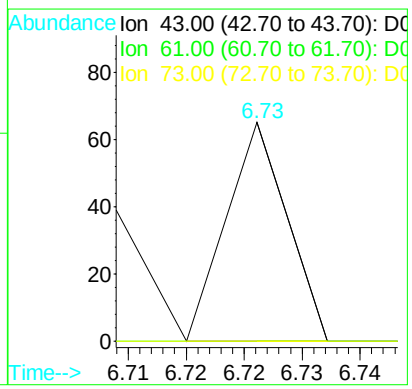




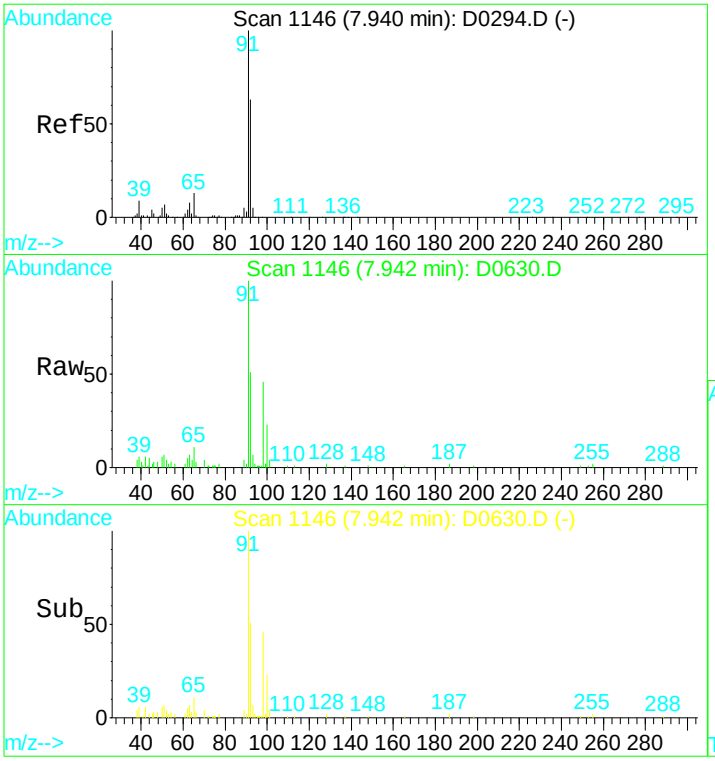
#60
n-Propyl Acetate
Concen: Below Cal
RT: 6.73 min Scan# 946
Delta R.T. -0.02 min
Lab File: D0630.D
Acq: 2 Aug 2016 3:18 pm

Tgt Ion: 43 Resp: 24

Ion	Ratio	Lower	Upper
43	100		
61	0.0	7.8	47.8#
73	0.0	0.0	31.7



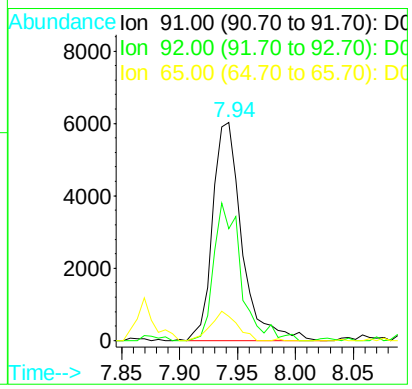
1st DL 08/03/16
2nd FJ 08/03/16



#68
Toluene
Concen: 0.80 ug/L
RT: 7.94 min Scan# 1146
Delta R.T. 0.00 min
Lab File: D0630.D
Acq: 2 Aug 2016 3:18 pm

Tgt Ion: 91 Resp: 10572

Ion	Ratio	Lower	Upper
91	100		
92	55.9	40.9	80.9
65	11.9	0.0	31.9



1st DL 08/03/16
2nd FJ 08/03/16

Quantitation Report (QT Reviewed)

Data File : I:\ACQUDATA\MSVOA6\DATA\080216\D0626.D Vial: 11
Acq On : 2 Aug 2016 1:11 pm Operator: D.LIPANI
Sample : R1607963-007|1.0 Inst : MS#6
Misc : ALS-Canada 8260C 15945 T4 Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Aug 3 13:28 2016 Quant Results File: W071416.RES

Quant Method : I:\ACQUDATA\M...\W071416.M (RTE Integrator)
Title : 8260C / 624 WATERS
Last Update : Mon Jul 18 16:21:59 2016
Response via : Initial Calibration
DataAcq Meth : W071416

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.52	168	349502	50.00	ug/L	0.00
40) 1,4-Difluorobenzene	5.82	114	528149	50.00	ug/L	0.00
69) d5-Chlorobenzene	9.18	117	455413	50.00	ug/L	0.00
89) 1,4-Dichlorobenzene-d4	11.29	152	237472	50.00	ug/L	0.00

System Monitoring Compounds						
41) surr4,Dibrflmethane	3.79	113	177673	52.24	ug/L	0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 104.48%			
43) surr1,1,2-dichloroethane-d	4.40	65	161346	53.11	ug/L	0.00
Spiked Amount 50.000	Range 65 - 130		Recovery = 106.22%			
67) SURR3,Toluene-d8	7.87	98	583611	54.93	ug/L	0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 109.86%			
88) SURR2,BFB	10.24	95	225609	51.56	ug/L	0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 103.12%			

Target Compounds						Qvalue
5) Bromomethane	1.39	94	737	0.29	ug/L #	55
14) Acetone	1.79	43	30555	62.49	ug/L	91
20) Methylene Chloride	2.13	84	119457	32.50	ug/L	98
35) Chloroform	3.65	83	64456	10.78	ug/L	96
55) Bromodichloromethane	6.34	83	3613	0.84	ug/L	97
60) n-Propyl Acetate	6.68	43	41	Below Cal	#	15
68) Toluene	7.94	91	94684	6.92	ug/L	99

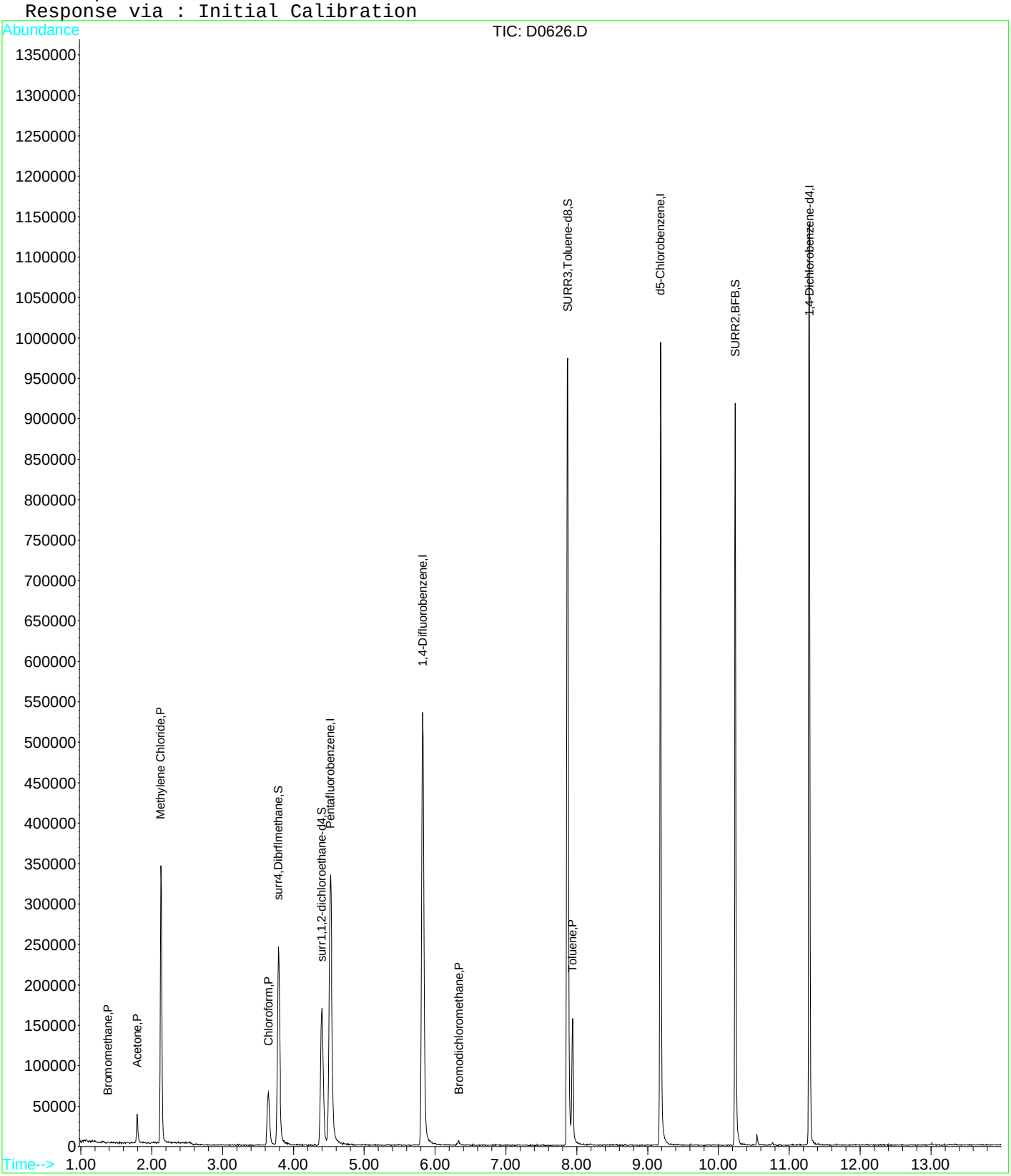
(#) = qualifier out of range (m) = manual integration

Quantitation Report

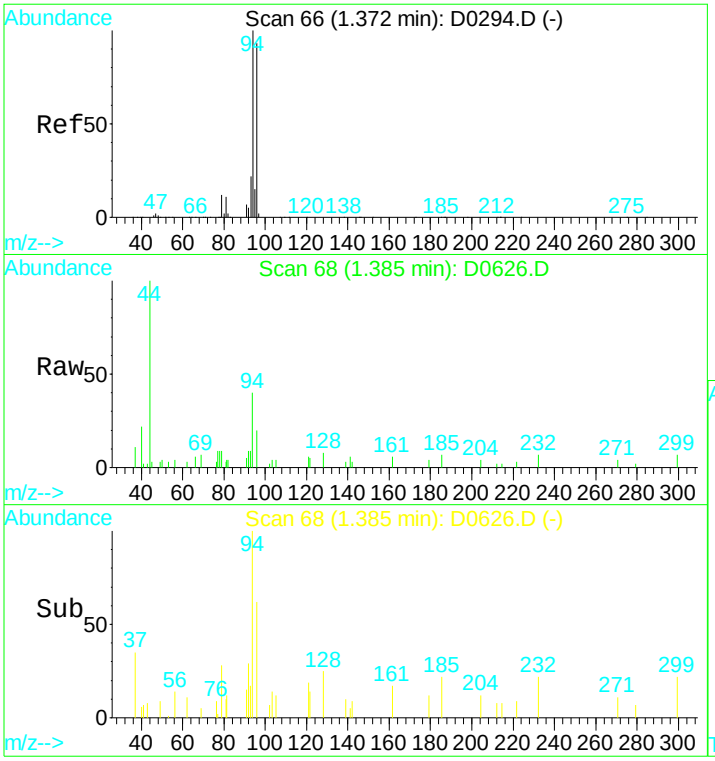
1st DL 08/03/16
2nd FN 08/03/16

Data File : I:\ACQUDATA\MSVOA6\DATA\080216\D0626.D Vial: 11
Acq On : 2 Aug 2016 1:11 pm Operator: D.LIPANI
Sample : R1607963-007|1.0 Inst : MS#6
Misc : ALS-Canada 8260C 15945 T4 Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Aug 3 13:28 2016 Quant Results File: W071416.RES

Method : I:\ACQUDATA\MSVOA6\METHODS\W071416.M (RTE Integrator)
Title : 8260C / 624 WATERS
Last Update : Mon Jul 18 16:21:59 2016
Response via : Initial Calibration



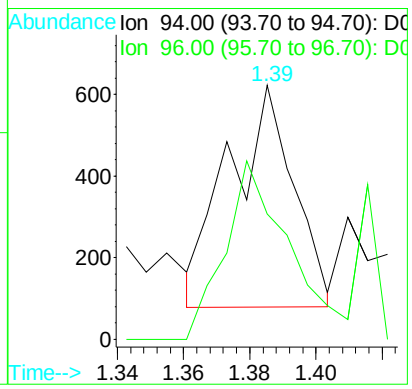
1st DL 08/03/16
2nd FJ 08/03/16

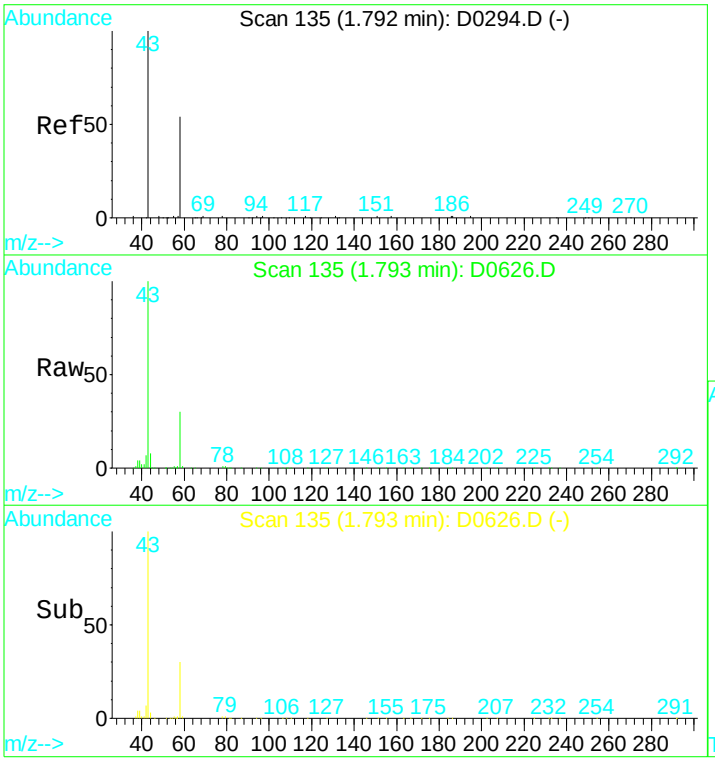


#5
Bromomethane
Concen: 0.29 ug/L
RT: 1.39 min Scan# 68
Delta R.T. 0.01 min
Lab File: D0626.D
Acq: 2 Aug 2016 1:11 pm

Tgt Ion: 94 Resp: 737

Ion	Ratio	Lower	Upper
94	100		
96	49.4	72.6	112.6#

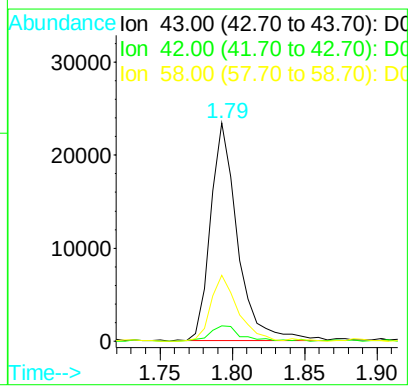




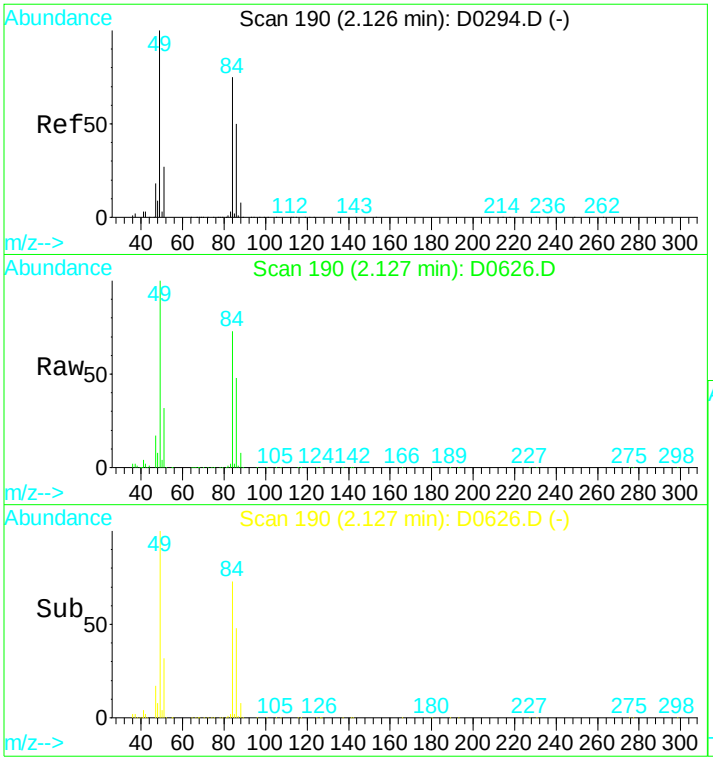
#14
Acetone
Concen: 62.49 ug/L
RT: 1.79 min Scan# 135
Delta R.T. 0.00 min
Lab File: D0626.D
Acq: 2 Aug 2016 1:11 pm

Tgt Ion: 43 Resp: 30555

Ion	Ratio	Lower	Upper
43	100		
42	6.9	0.0	27.9
58	30.0	16.0	56.0



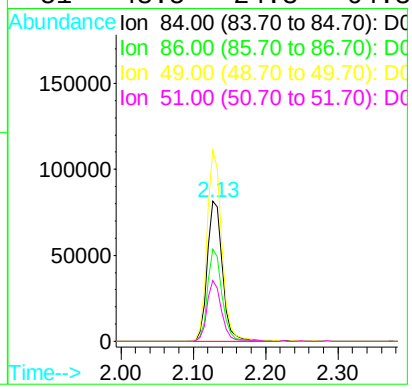
1st DL 08/03/16
2nd FJ 08/03/16

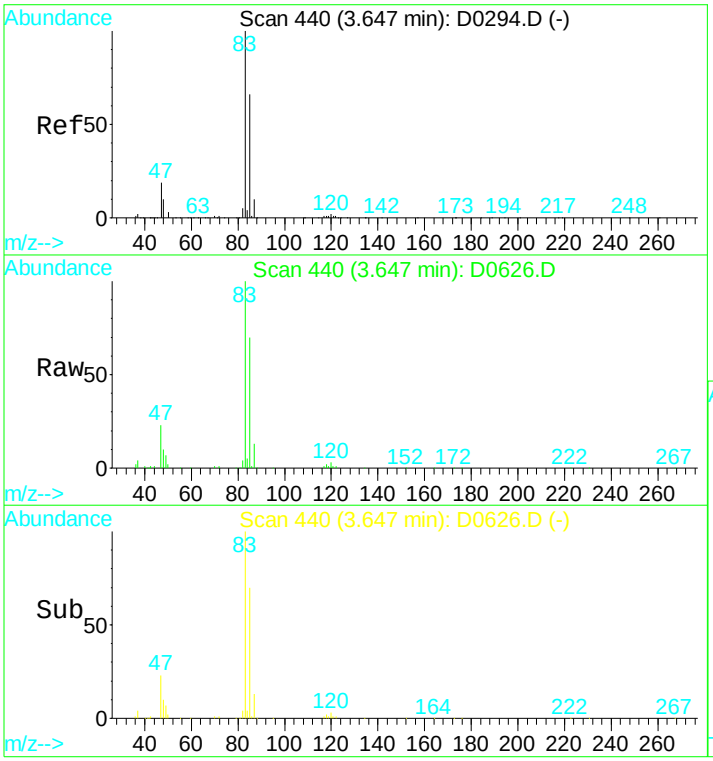


#20
Methylene Chloride
Concen: 32.50 ug/L
RT: 2.13 min Scan# 190
Delta R.T. 0.00 min
Lab File: D0626.D
Acq: 2 Aug 2016 1:11 pm

Tgt Ion: 84 Resp: 119457

Ion	Ratio	Lower	Upper
84	100		
86	65.8	46.3	86.3
49	136.9	112.8	152.8
51	43.5	24.3	64.3

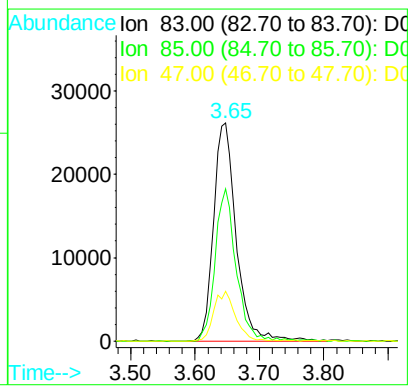




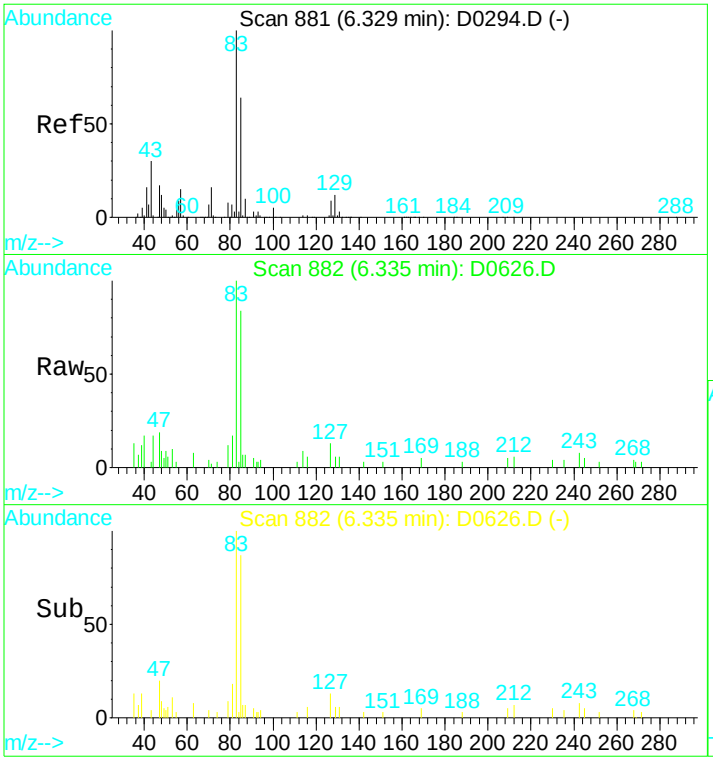
#35
Chloroform
Concen: 10.78 ug/L
RT: 3.65 min Scan# 440
Delta R.T. 0.00 min
Lab File: D0626.D
Acq: 2 Aug 2016 1:11 pm

Tgt Ion: 83 Resp: 64456

Ion	Ratio	Lower	Upper
83	100		
85	69.6	46.0	86.0
47	22.8	0.8	40.8



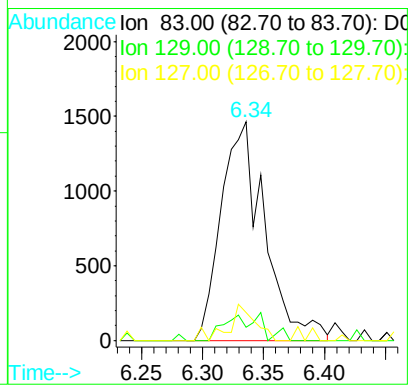
1st DL 08/03/16
2nd FJ 08/03/16

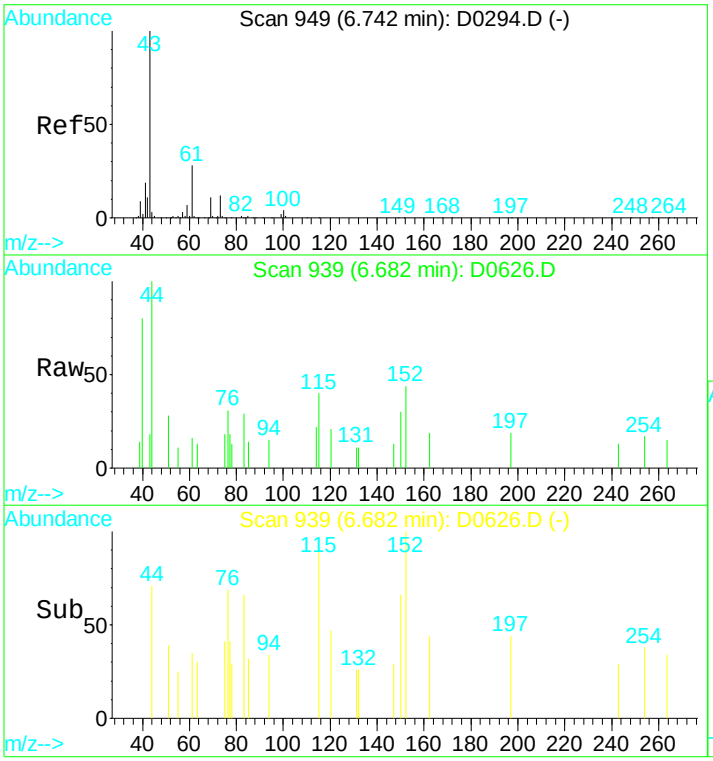


#55
Bromodichloromethane
Concen: 0.84 ug/L
RT: 6.34 min Scan# 882
Delta R.T. 0.01 min
Lab File: D0626.D
Acq: 2 Aug 2016 1:11 pm

Tgt Ion: 83 Resp: 3613

Ion	Ratio	Lower	Upper
83	100		
129	9.5	0.0	31.4
127	9.3	0.0	28.8

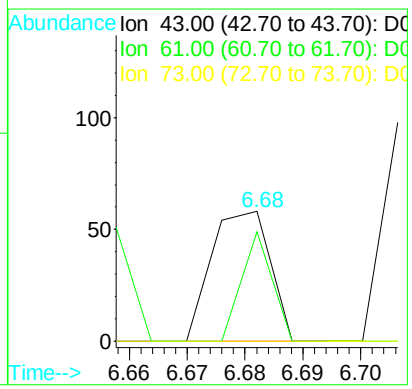




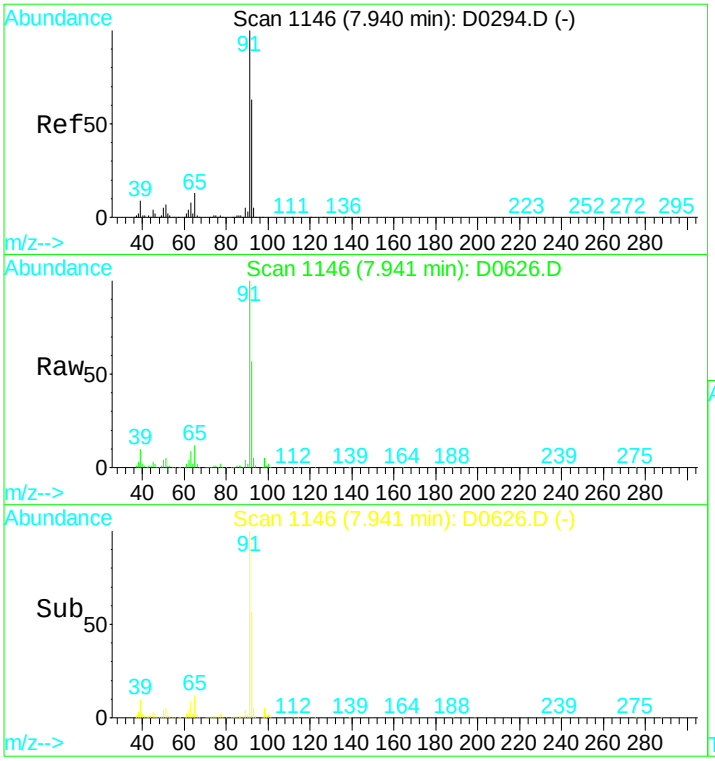
#60
n-Propyl Acetate
Concen: Below Cal
RT: 6.68 min Scan# 939
Delta R.T. -0.06 min
Lab File: D0626.D
Acq: 2 Aug 2016 1:11 pm

Tgt Ion: 43 Resp: 41

Ion	Ratio	Lower	Upper
43	100		
61	84.5	7.8	47.8#
73	0.0	0.0	31.7



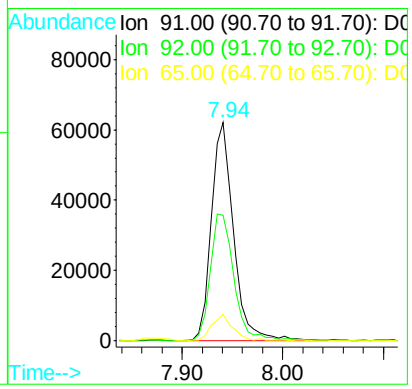
1st DL 08/03/16
2nd FJ 08/03/16



#68
Toluene
Concen: 6.92 ug/L
RT: 7.94 min Scan# 1146
Delta R.T. 0.00 min
Lab File: D0626.D
Acq: 2 Aug 2016 1:11 pm

Tgt Ion: 91 Resp: 94684

Ion	Ratio	Lower	Upper
91	100		
92	61.2	40.9	80.9
65	11.2	0.0	31.9



1st DL 08/03/16
2nd FJ 08/03/16

Quantitation Report (QT Reviewed)

Data File : I:\ACQUDATA\MSVOA6\DATA\080216\D0625.D Vial: 10
Acq On : 2 Aug 2016 12:38 pm Operator: D.LIPANI
Sample : R1607963-009|1.0 Inst : MS#6
Misc : ALS-Canada 8260C 15945 T4 Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Aug 3 13:23 2016 Quant Results File: W071416.RES

Quant Method : I:\ACQUDATA\M...\W071416.M (RTE Integrator)
Title : 8260C / 624 WATERS
Last Update : Mon Jul 18 16:21:59 2016
Response via : Initial Calibration
DataAcq Meth : W071416

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.53	168	345526	50.00	ug/L	0.00
40) 1,4-Difluorobenzene	5.82	114	539129	50.00	ug/L	0.00
69) d5-Chlorobenzene	9.19	117	454370	50.00	ug/L	0.00
89) 1,4-Dichlorobenzene-d4	11.28	152	257288	50.00	ug/L	0.00
System Monitoring Compounds						
41) surr4,Dibrflmethane	3.79	113	175368	50.51	ug/L	0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 101.02%			
43) surr1,1,2-dichloroethane-d	4.40	65	160008	51.60	ug/L	0.00
Spiked Amount 50.000	Range 65 - 130		Recovery = 103.20%			
67) SURR3,Toluene-d8	7.87	98	578235	53.32	ug/L	0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 106.64%			
88) SURR2,BFB	10.24	95	229281	52.52	ug/L	0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 105.04%			
Target Compounds						Qvalue
14) Acetone	1.79	43	1683	3.48	ug/L	74
17) Iodomethane	2.05	142	336	1.01	ug/L	84

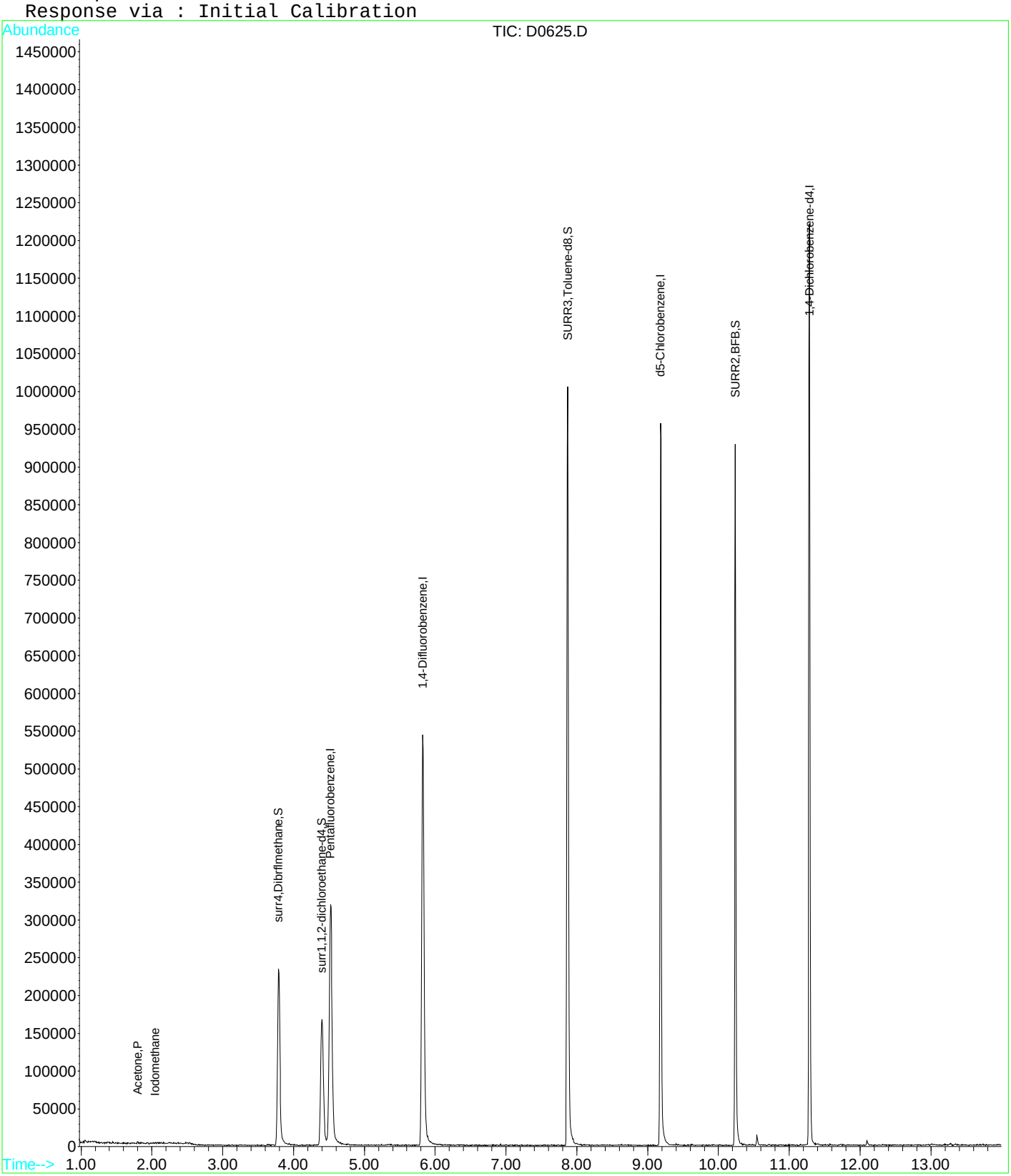
(#) = qualifier out of range (m) = manual integration

Quantitation Report

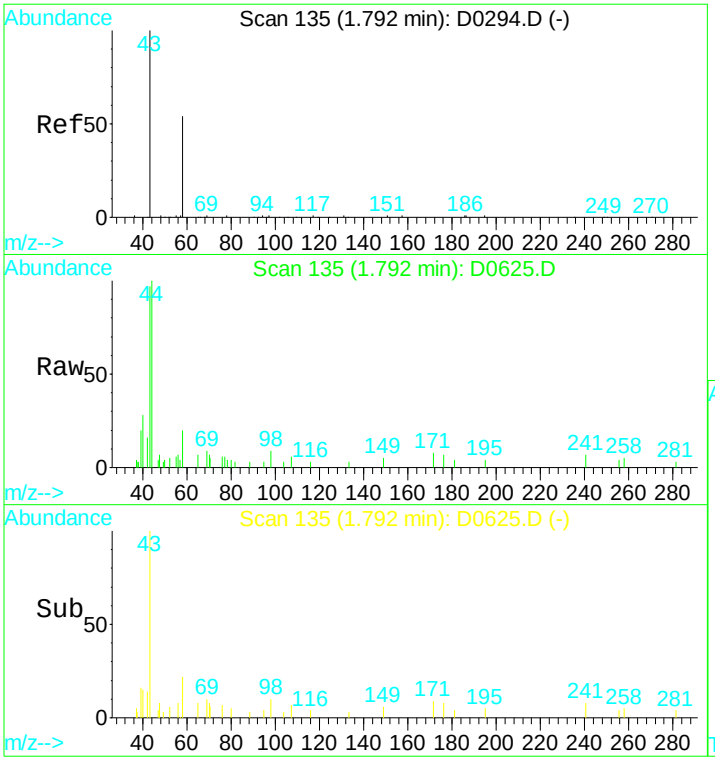
1st DL 08/03/16
2nd FJ 08/03/16

Data File : I:\ACQUDATA\MSVOA6\DATA\080216\D0625.D Vial: 10
Acq On : 2 Aug 2016 12:38 pm Operator: D.LIPANI
Sample : R1607963-009|1.0 Inst : MS#6
Misc : ALS-Canada 8260C 15945 T4 Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Aug 3 13:23 2016 Quant Results File: W071416.RES

Method : I:\ACQUDATA\MSVOA6\METHODS\W071416.M (RTE Integrator)
Title : 8260C / 624 WATERS
Last Update : Mon Jul 18 16:21:59 2016
Response via : Initial Calibration



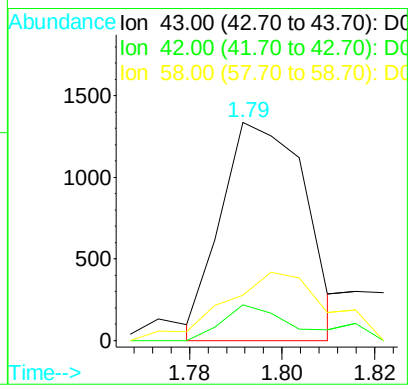
1st DL 08/03/16
2nd FJ 08/03/16

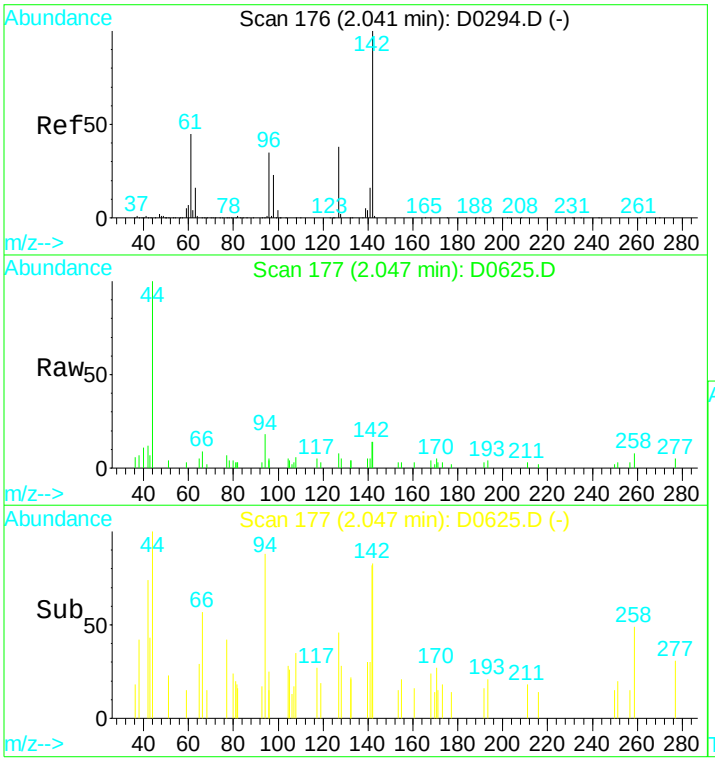


#14
Acetone
Concen: 3.48 ug/L
RT: 1.79 min Scan# 135
Delta R.T. -0.00 min
Lab File: D0625.D
Acq: 2 Aug 2016 12:38 pm

Tgt Ion: 43 Resp: 1683

Ion	Ratio	Lower	Upper
43	100		
42	16.3	0.0	27.9
58	20.6	16.0	56.0

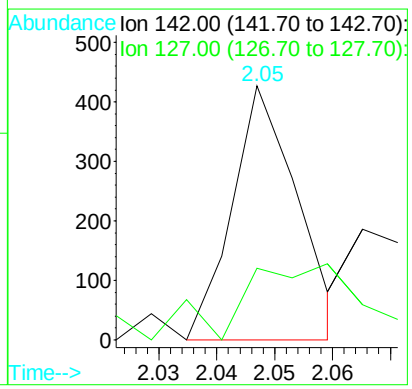




#17
Iodomethane
Concen: 1.01 ug/L
RT: 2.05 min Scan# 177
Delta R.T. 0.01 min
Lab File: D0625.D
Acq: 2 Aug 2016 12:38 pm

Tgt Ion:142 Resp: 336

Ion	Ratio	Lower	Upper
142	100		
127	28.1	17.9	57.9



1st DL 08/03/16
2nd FJ 08/03/16

Quantitation Report (QT Reviewed)

Data File : I:\ACQUDATA\MSVOA6\DATA\080216\D0631.D Vial: 16
Acq On : 2 Aug 2016 3:50 pm Operator: D.LIPANI
Sample : R1607963-013|1.0 Inst : MS#6
Misc : ALS-Canada 8260C 15945 T4 Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Aug 3 13:47 2016 Quant Results File: W071416.RES

Quant Method : I:\ACQUDATA\M...\W071416.M (RTE Integrator)
Title : 8260C / 624 WATERS
Last Update : Mon Jul 18 16:21:59 2016
Response via : Initial Calibration
DataAcq Meth : W071416

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.52	168	352796	50.00	ug/L	0.00
40) 1,4-Difluorobenzene	5.83	114	517826	50.00	ug/L	0.00
69) d5-Chlorobenzene	9.18	117	449021	50.00	ug/L	0.00
89) 1,4-Dichlorobenzene-d4	11.29	152	245233	50.00	ug/L	0.00
System Monitoring Compounds						
41) surr4,Dibrflmethane	3.79	113	176366	52.89	ug/L	0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 105.78%			
43) surr1,1,2-dichloroethane-d	4.40	65	153572	51.56	ug/L	0.00
Spiked Amount 50.000	Range 65 - 130		Recovery = 103.12%			
67) SURR3,Toluene-d8	7.87	98	528845	50.77	ug/L	0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 101.54%			
88) SURR2,BFB	10.23	95	225825	52.35	ug/L	0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 104.70%			
Target Compounds						Qvalue
13) 2-Propanol	1.77	45	2167	22.60	ug/L	63
14) Acetone	1.79	43	2424	4.91	ug/L	90
20) Methylene Chloride	2.13	84	975	0.26	ug/L	88
68) Toluene	7.94	91	3190	0.24	ug/L	85

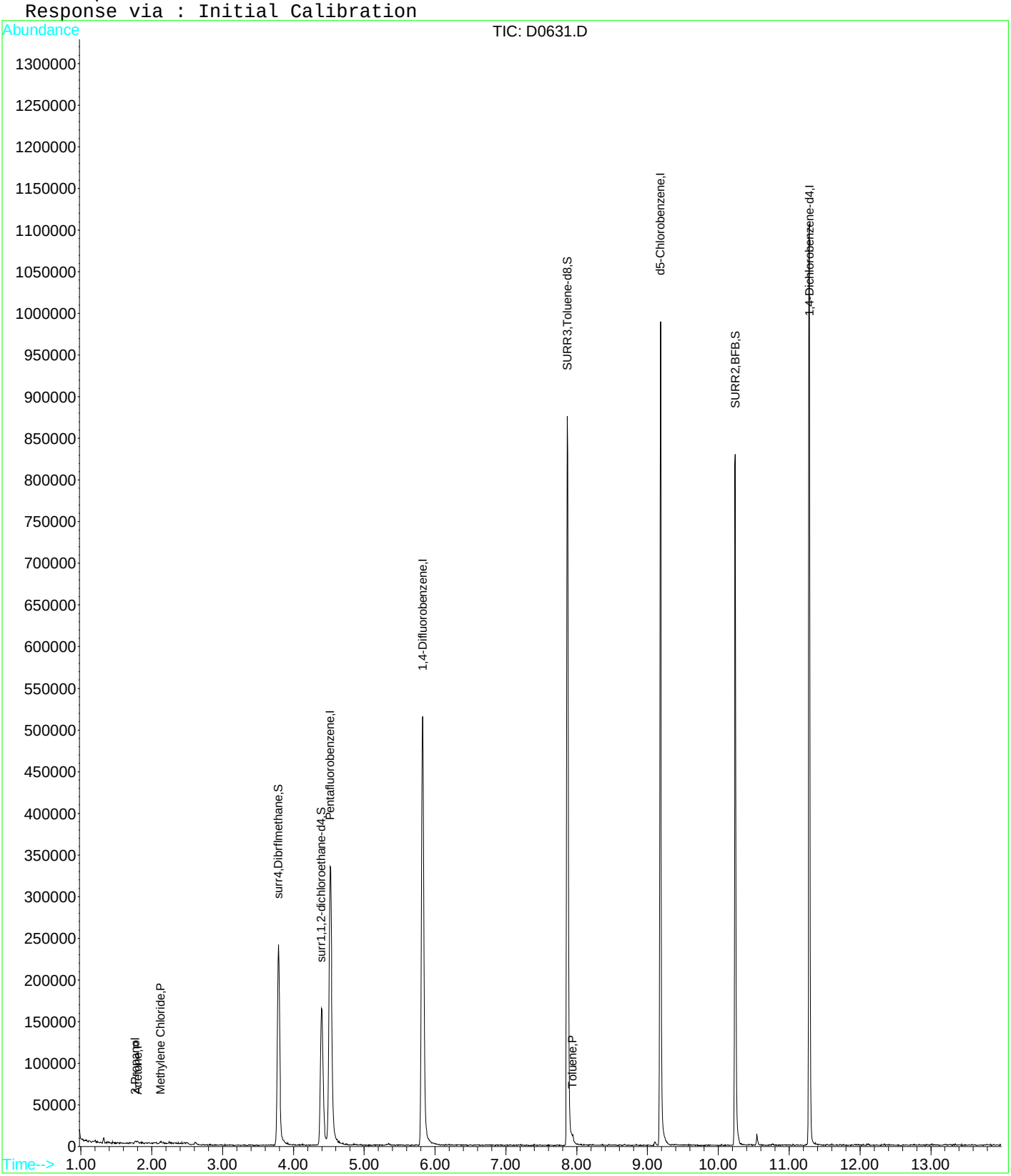
(#) = qualifier out of range (m) = manual integration

Quantitation Report

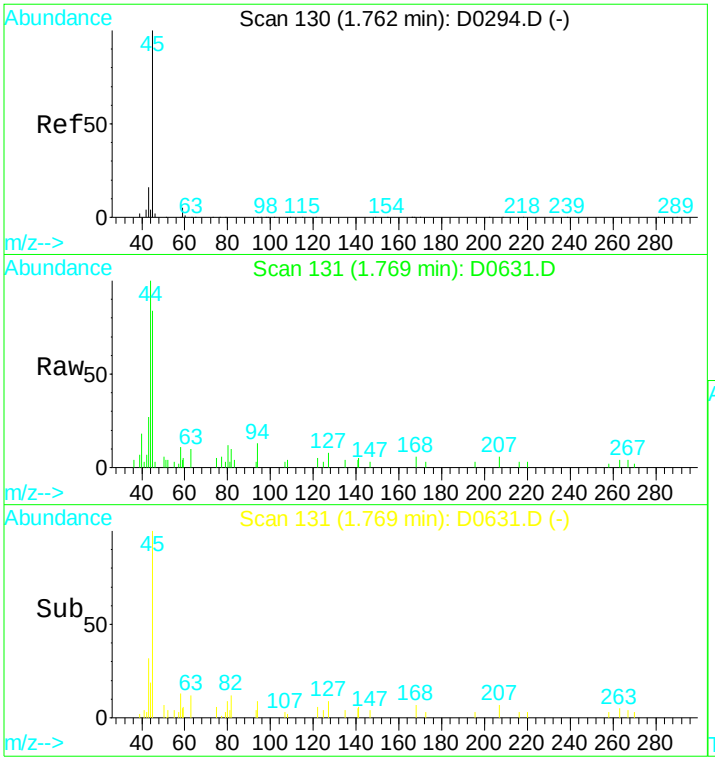
1st DL 08/03/16
2nd FJ 08/03/16

Data File : I:\ACQUDATA\MSVOA6\DATA\080216\D0631.D Vial: 16
Acq On : 2 Aug 2016 3:50 pm Operator: D.LIPANI
Sample : R1607963-013|1.0 Inst : MS#6
Misc : ALS-Canada 8260C 15945 T4 Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Aug 3 13:47 2016 Quant Results File: W071416.RES

Method : I:\ACQUDATA\MSVOA6\METHODS\W071416.M (RTE Integrator)
Title : 8260C / 624 WATERS
Last Update : Mon Jul 18 16:21:59 2016
Response via : Initial Calibration



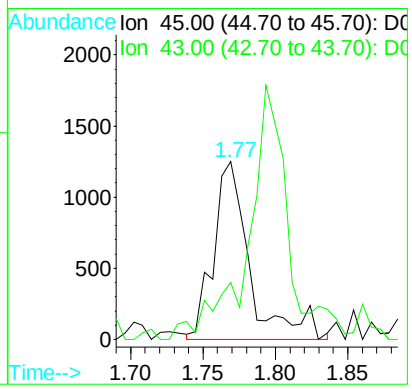
1st DL 08/03/16
2nd FJ 08/03/16

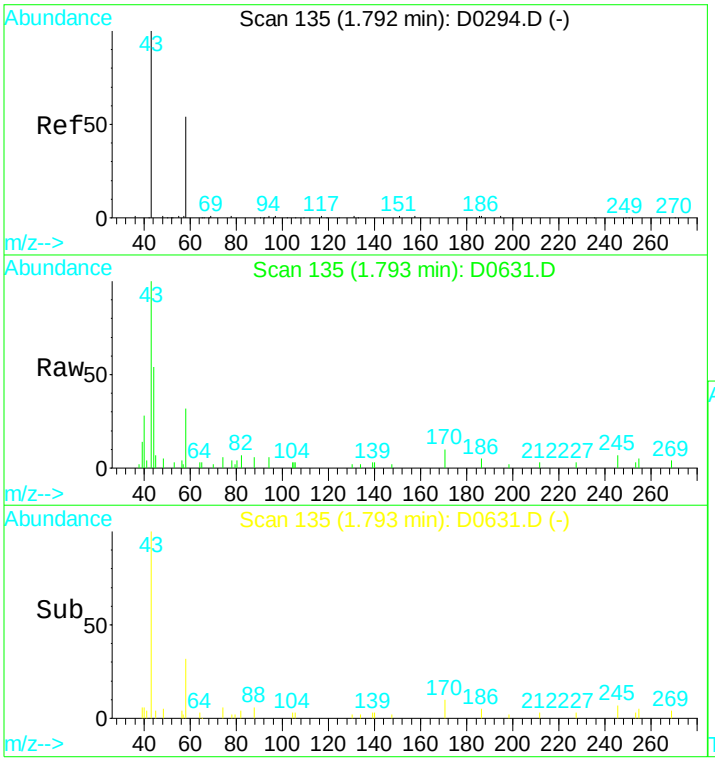


#13
2-Propanol
Concen: 22.60 ug/L
RT: 1.77 min Scan# 131
Delta R.T. 0.01 min
Lab File: D0631.D
Acq: 2 Aug 2016 3:50 pm

Tgt Ion: 45 Resp: 2167

Ion	Ratio	Lower	Upper
45	100		
43	31.9	0.0	36.1

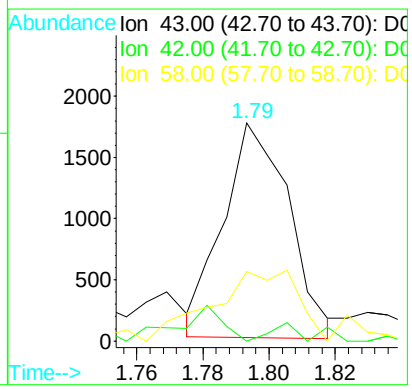




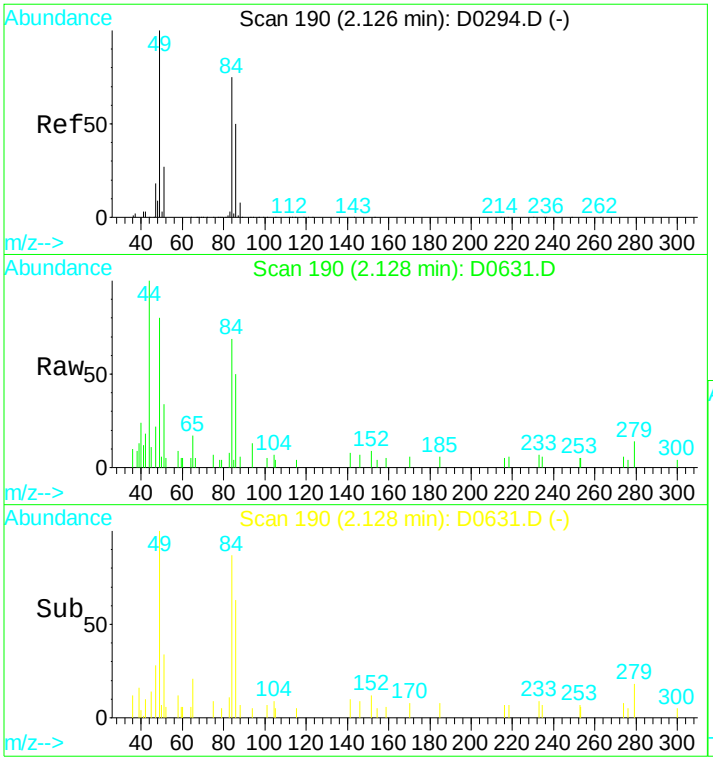
#14
Acetone
Concen: 4.91 ug/L
RT: 1.79 min Scan# 135
Delta R.T. 0.00 min
Lab File: D0631.D
Acq: 2 Aug 2016 3:50 pm

Tgt Ion: 43 Resp: 2424

Ion	Ratio	Lower	Upper
43	100		
42	0.0	0.0	27.9
58	32.0	16.0	56.0



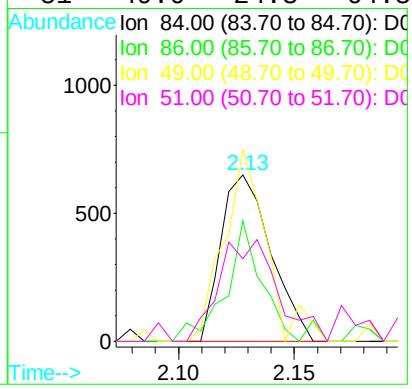
1st DL 08/03/16
2nd FJ 08/03/16

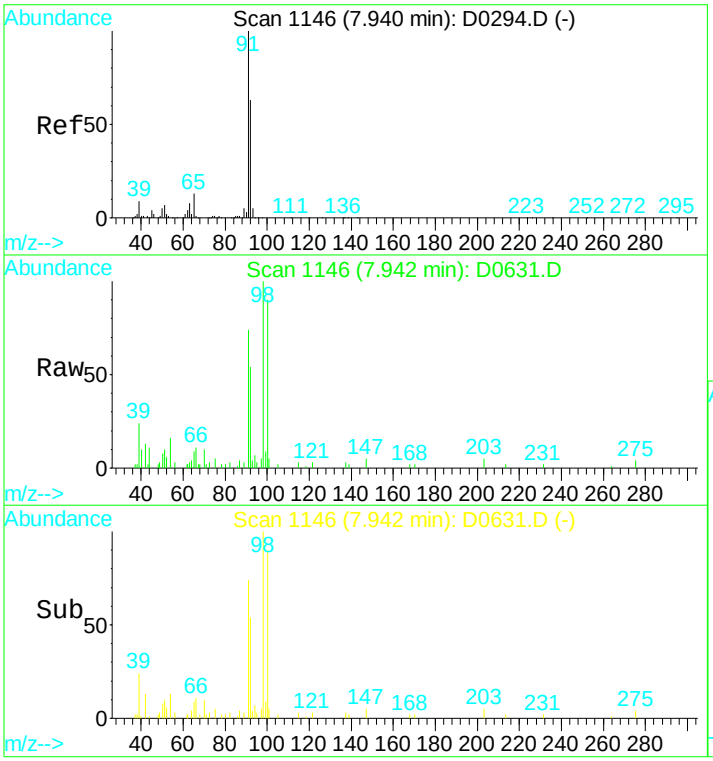


#20
Methylene Chloride
Concen: 0.26 ug/L
RT: 2.13 min Scan# 190
Delta R.T. 0.00 min
Lab File: D0631.D
Acq: 2 Aug 2016 3:50 pm

Tgt Ion: 84 Resp: 975

Ion	Ratio	Lower	Upper
84	100		
86	72.2	46.3	86.3
49	115.1	112.8	152.8
51	49.6	24.3	64.3

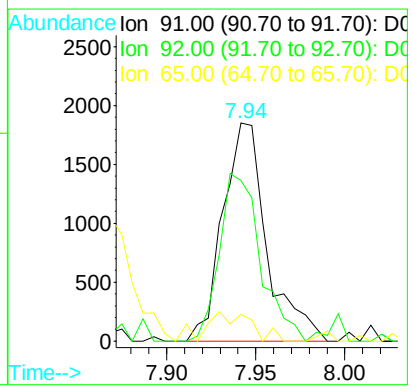




#68
Toluene
Concen: 0.24 ug/L
RT: 7.94 min Scan# 1146
Delta R.T. 0.00 min
Lab File: D0631.D
Acq: 2 Aug 2016 3:50 pm

Tgt Ion: 91 Resp: 3190

Ion	Ratio	Lower	Upper
91	100		
92	71.6	40.9	80.9
65	4.6	0.0	31.9



1st DL 08/03/16
2nd FJ 08/03/16

Quantitation Report (QT Reviewed)

Data File : I:\ACQUDATA\MSVOA6\DATA\080216\D0632.D Vial: 17
Acq On : 2 Aug 2016 4:26 pm Operator: D.LIPANI
Sample : R1607963-020|1.0 Inst : MS#6
Misc : ALS-Canada 8260C 15945 T4 Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Aug 3 13:50 2016 Quant Results File: W071416.RES

Quant Method : I:\ACQUDATA\M...\W071416.M (RTE Integrator)
Title : 8260C / 624 WATERS
Last Update : Mon Jul 18 16:21:59 2016
Response via : Initial Calibration
DataAcq Meth : W071416

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.52	168	338652	50.00	ug/L	0.00
40) 1,4-Difluorobenzene	5.82	114	517101	50.00	ug/L	0.00
69) d5-Chlorobenzene	9.18	117	445529	50.00	ug/L	0.00
89) 1,4-Dichlorobenzene-d4	11.28	152	249801	50.00	ug/L	0.00

System Monitoring Compounds						
41) surr4,Dibrflmethane	3.79	113	175671	52.76	ug/L	0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 105.52%			
43) surr1,1,2-dichloroethane-d	4.40	65	153434	51.59	ug/L	0.00
Spiked Amount 50.000	Range 65 - 130		Recovery = 103.18%			
67) SURR3,Toluene-d8	7.87	98	523144	50.29	ug/L	0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 100.58%			
88) SURR2,BFB	10.24	95	222807	52.05	ug/L	0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 104.10%			

Target Compounds						Qvalue
14) Acetone	1.79	43	4020	8.48	ug/L	87
20) Methylene Chloride	2.12	84	756	0.21	ug/L #	44
38) Tetrahydrofuran	4.08	42	635	1.25	ug/L #	39
49) Benzene	5.34	78	4393	0.34	ug/L	91
108) Naphthalen	13.19	128	3335	0.48	ug/L	93

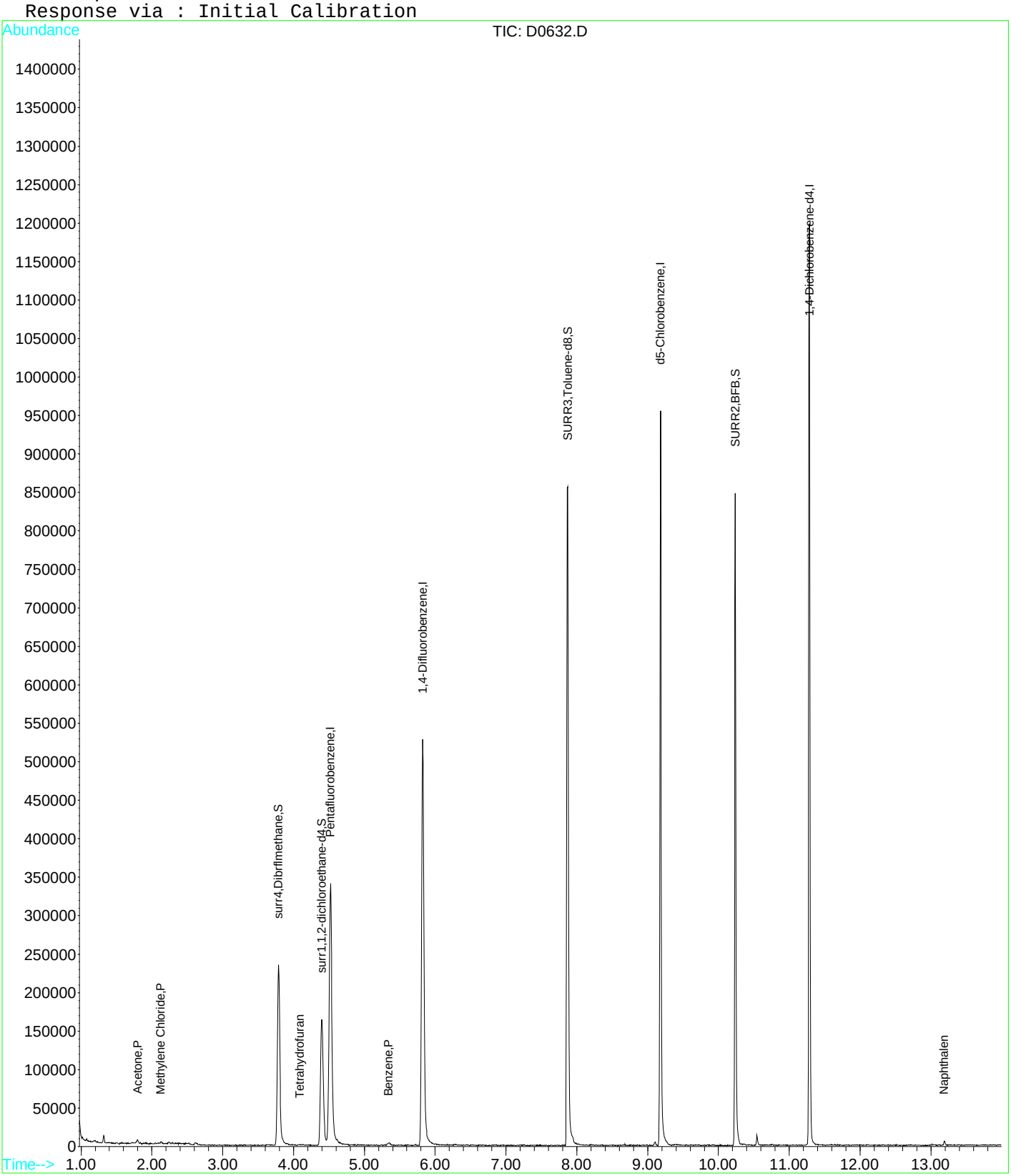
(#) = qualifier out of range (m) = manual integration

Quantitation Report

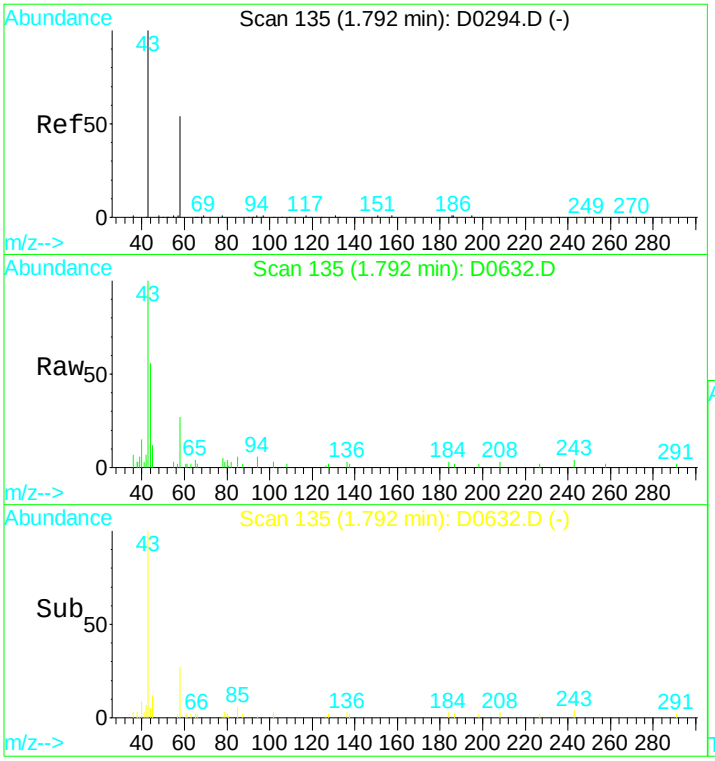
1st DL 08/03/16
2nd FN 08/03/16

Data File : I:\ACQUDATA\MSVOA6\DATA\080216\D0632.D Vial: 17
Acq On : 2 Aug 2016 4:26 pm Operator: D.LIPANI
Sample : R1607963-020|1.0 Inst : MS#6
Misc : ALS-Canada 8260C 15945 T4 Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Aug 3 13:50 2016 Quant Results File: W071416.RES

Method : I:\ACQUDATA\MSVOA6\METHODS\W071416.M (RTE Integrator)
Title : 8260C / 624 WATERS
Last Update : Mon Jul 18 16:21:59 2016
Response via : Initial Calibration



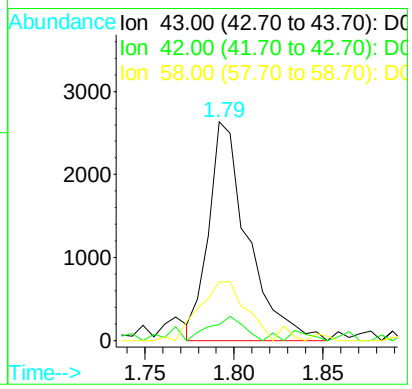
1st DL 08/03/16
2nd FJ 08/03/16

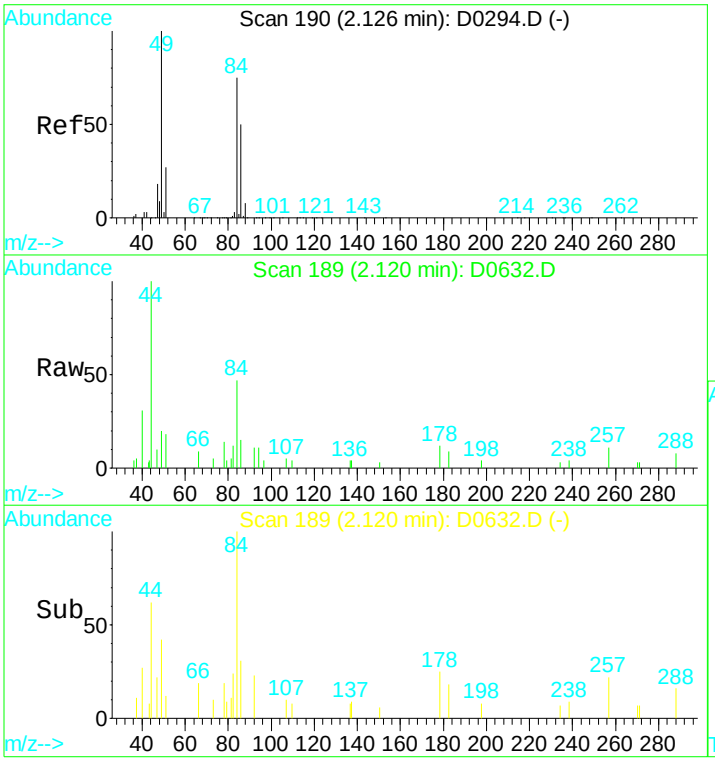


#14
Acetone
Concen: 8.48 ug/L
RT: 1.79 min Scan# 135
Delta R.T. -0.00 min
Lab File: D0632.D
Acq: 2 Aug 2016 4:26 pm

Tgt Ion: 43 Resp: 4020

Ion	Ratio	Lower	Upper
43	100		
42	7.1	0.0	27.9
58	27.0	16.0	56.0

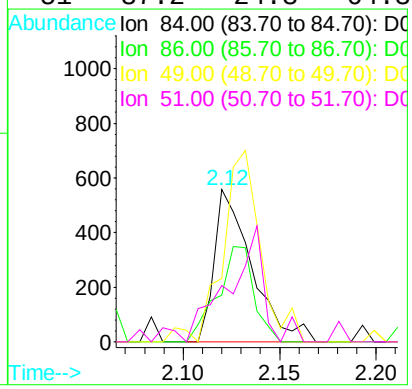




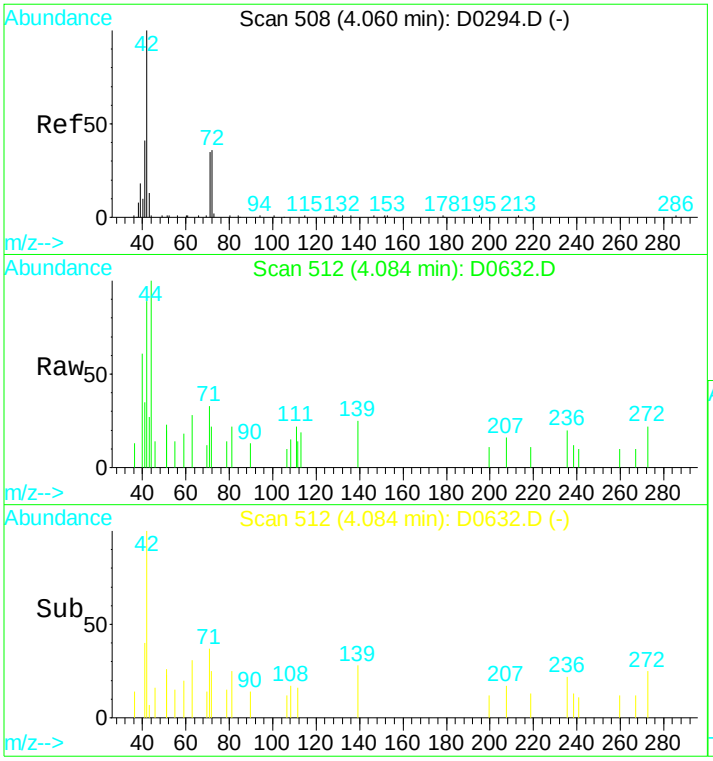
#20
Methylene Chloride
Concen: 0.21 ug/L
RT: 2.12 min Scan# 189
Delta R.T. -0.01 min
Lab File: D0632.D
Acq: 2 Aug 2016 4:26 pm

Tgt Ion: 84 Resp: 756

Ion	Ratio	Lower	Upper
84	100		
86	30.9	46.3	86.3#
49	41.7	112.8	152.8#
51	37.2	24.3	64.3



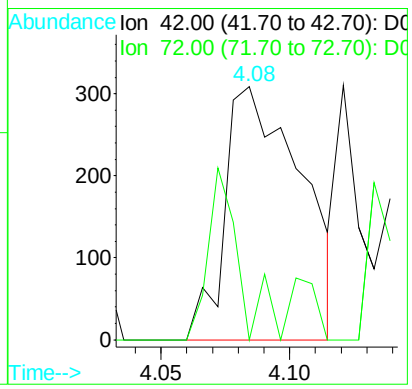
1st DL 08/03/16
2nd FJ 08/03/16

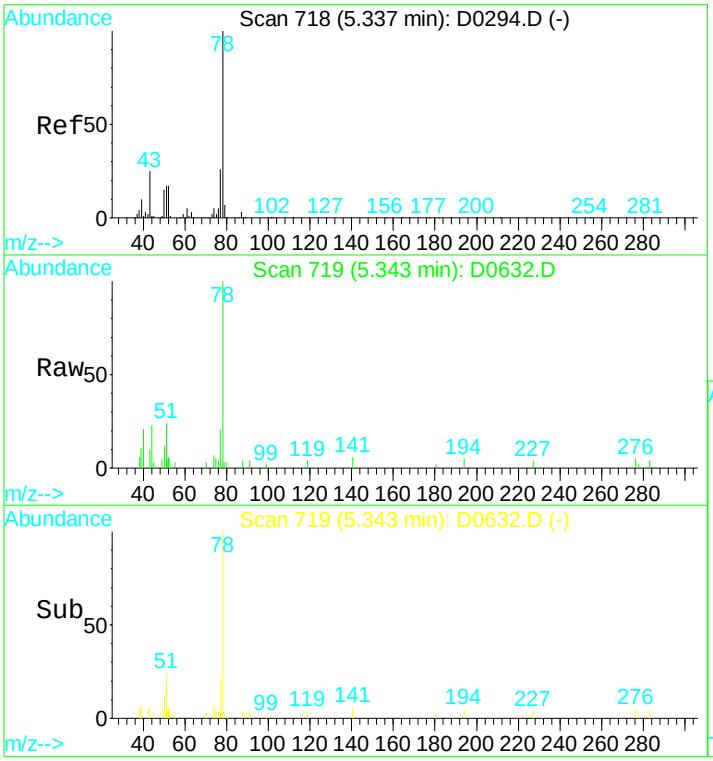


#38
Tetrahydrofuran
Concen: 1.25 ug/L
RT: 4.08 min Scan# 512
Delta R.T. 0.02 min
Lab File: D0632.D
Acq: 2 Aug 2016 4:26 pm

Tgt Ion: 42 Resp: 635

Ion	Ratio	Lower	Upper
42	100		
72	0.0	15.7	55.7#

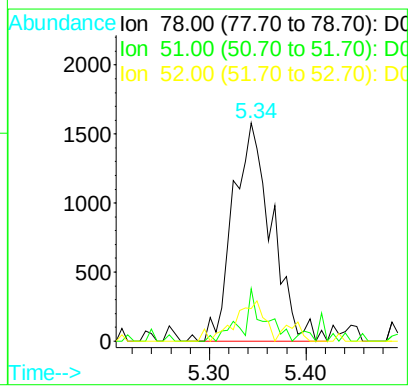




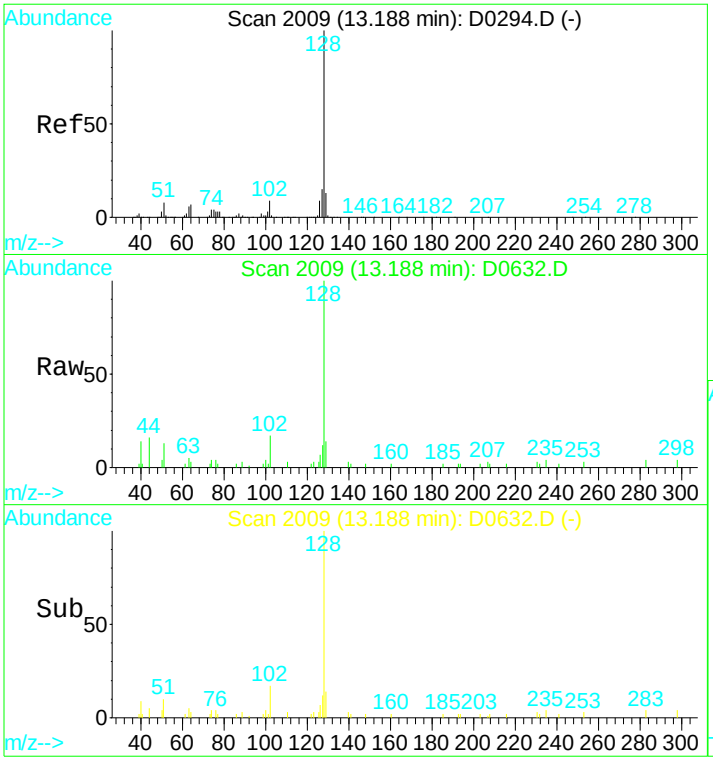
#49
Benzene
Concen: 0.34 ug/L
RT: 5.34 min Scan# 719
Delta R.T. 0.01 min
Lab File: D0632.D
Acq: 2 Aug 2016 4:26 pm

Tgt Ion: 78 Resp: 4393

Ion	Ratio	Lower	Upper
78	100		
51	24.0	0.0	37.5
52	15.0	0.0	36.7



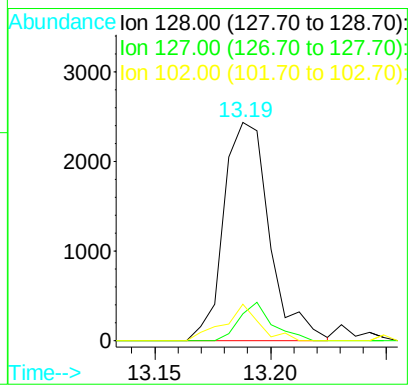
1st DL 08/03/16
2nd FJ 08/03/16



#108
Naphthalen
Concen: 0.48 ug/L
RT: 13.19 min Scan# 2009
Delta R.T. 0.00 min
Lab File: D0632.D
Acq: 2 Aug 2016 4:26 pm

Tgt Ion:128 Resp: 3335

Ion	Ratio	Lower	Upper
128	100		
127	12.6	0.0	34.2
102	12.9	0.0	28.1



1st DL 08/03/16
2nd FJ 08/03/16

Quantitation Report (QT Reviewed)

Data File : I:\ACQUDATA\MSVOA6\DATA\080216\D0627.D Vial: 12
Acq On : 2 Aug 2016 1:42 pm Operator: D.LIPANI
Sample : R1607963-023|1.0 Inst : MS#6
Misc : ALS-Canada 8260C 15947 T4 Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Aug 3 13:34 2016 Quant Results File: W071416.RES

Quant Method : I:\ACQUDATA\M...\W071416.M (RTE Integrator)
Title : 8260C / 624 WATERS
Last Update : Mon Jul 18 16:21:59 2016
Response via : Initial Calibration
DataAcq Meth : W071416

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.53	168	364125	50.00	ug/L	0.00
40) 1,4-Difluorobenzene	5.82	114	541415	50.00	ug/L	0.00
69) d5-Chlorobenzene	9.18	117	467479	50.00	ug/L	0.00
89) 1,4-Dichlorobenzene-d4	11.29	152	254312	50.00	ug/L	0.00

System Monitoring Compounds						
41) surr4,Dibrflmethane	3.79	113	178996	51.34	ug/L	0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 102.68%			
43) surr1,1,2-dichloroethane-d	4.40	65	156658	50.30	ug/L	0.00
Spiked Amount 50.000	Range 65 - 130		Recovery = 100.60%			
67) SURR3,Toluene-d8	7.87	98	588237	54.01	ug/L	0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 108.02%			
88) SURR2,BFB	10.24	95	227914	50.75	ug/L	0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 101.50%			

Target Compounds						Qvalue
5) Bromomethane	1.37	94	1005	0.38	ug/L	83
14) Acetone	1.79	43	341046	669.48	ug/L	96
17) Iodomethane	2.04	142	214	0.97	ug/L	73
20) Methylene Chloride	2.13	84	1973782	515.41	ug/L #	79
24) Carbon Disulfide	2.24	76	4195	0.36	ug/L	93
34) Bromochloromethane	3.57	128	1350	0.82	ug/L #	43
35) Chloroform	3.64	83	41460	6.65	ug/L	98
55) Bromodichloromethane	6.32	83	1800	0.41	ug/L	88
60) n-Propyl Acetate	6.71	43	62	Below Cal	#	54
68) Toluene	7.95	91	2926063	208.63	ug/L	79

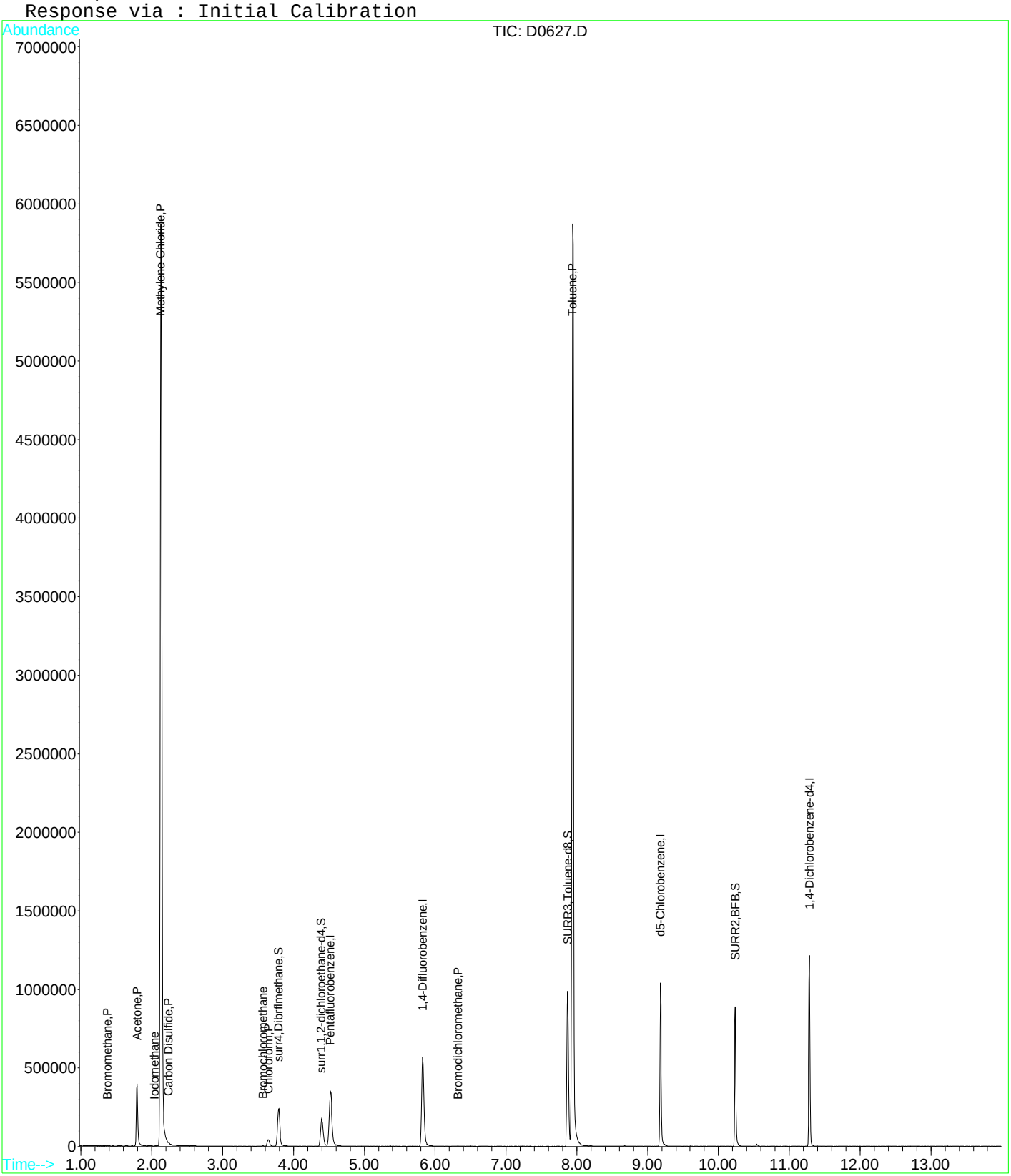
(#) = qualifier out of range (m) = manual integration

Quantitation Report

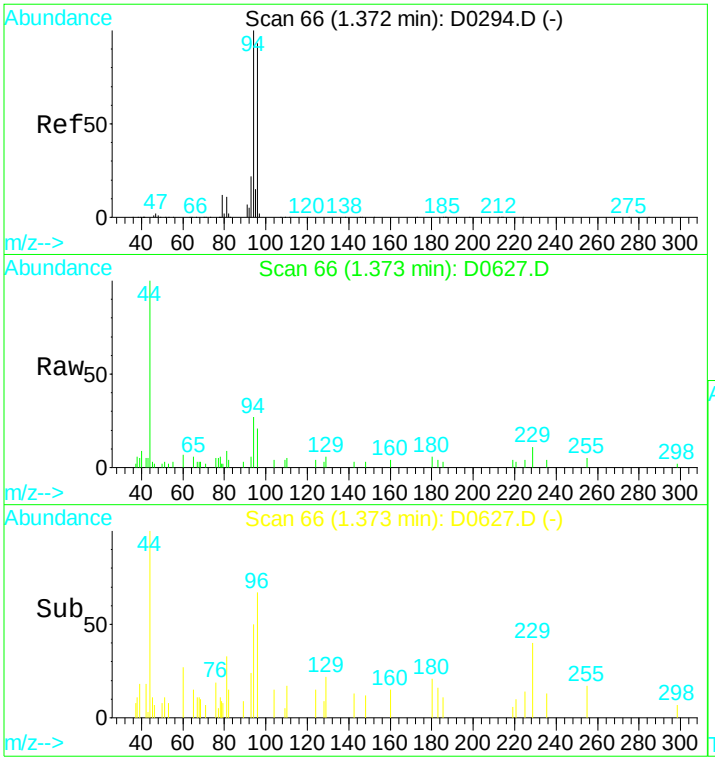
1st DL 08/03/16
2nd FJ 08/03/16

Data File : I:\ACQUDATA\MSVOA6\DATA\080216\D0627.D Vial: 12
Acq On : 2 Aug 2016 1:42 pm Operator: D.LIPANI
Sample : R1607963-023|1.0 Inst : MS#6
Misc : ALS-Canada 8260C 15947 T4 Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Aug 3 13:34 2016 Quant Results File: W071416.RES

Method : I:\ACQUDATA\MSVOA6\METHODS\W071416.M (RTE Integrator)
Title : 8260C / 624 WATERS
Last Update : Mon Jul 18 16:21:59 2016
Response via : Initial Calibration



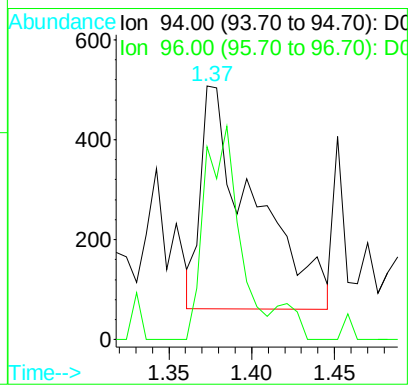
1st DL 08/03/16
2nd FJ 08/03/16

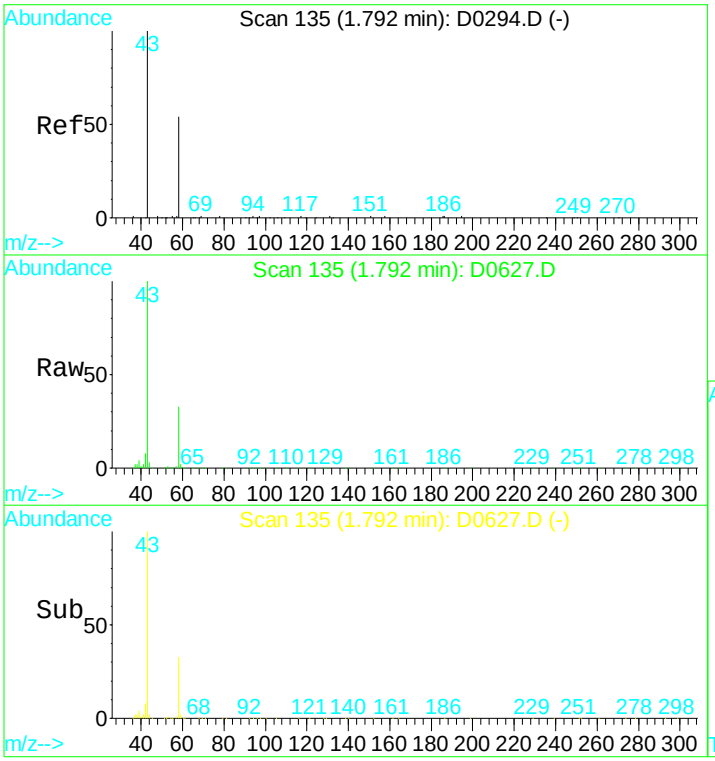


#5
Bromomethane
Concen: 0.38 ug/L
RT: 1.37 min Scan# 66
Delta R.T. 0.00 min
Lab File: D0627.D
Acq: 2 Aug 2016 1:42 pm

Tgt Ion: 94 Resp: 1005

Ion	Ratio	Lower	Upper
94	100		
96	76.0	72.6	112.6

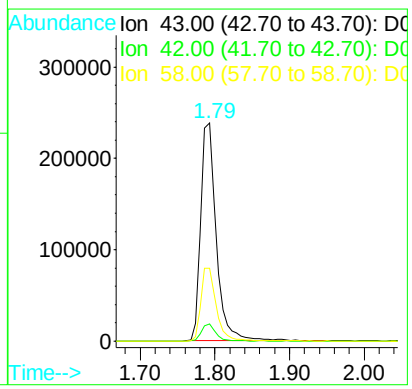




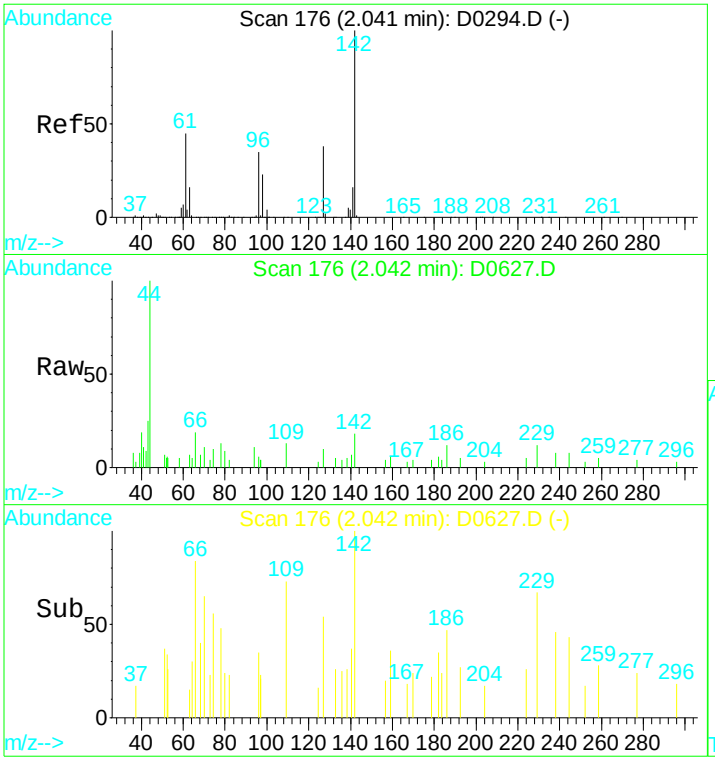
#14
Acetone
Concen: 669.48 ug/L
RT: 1.79 min Scan# 135
Delta R.T. 0.00 min
Lab File: D0627.D
Acq: 2 Aug 2016 1:42 pm

Tgt Ion: 43 Resp: 341046

Ion	Ratio	Lower	Upper
43	100		
42	8.0	0.0	27.9
58	33.5	16.0	56.0



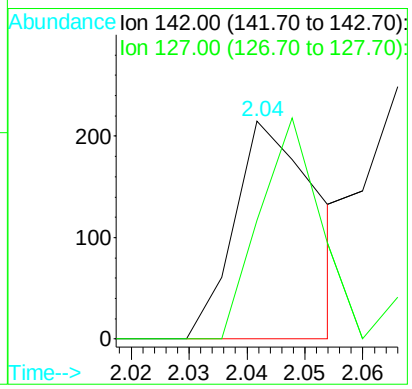
1st DL 08/03/16
2nd FJ 08/03/16

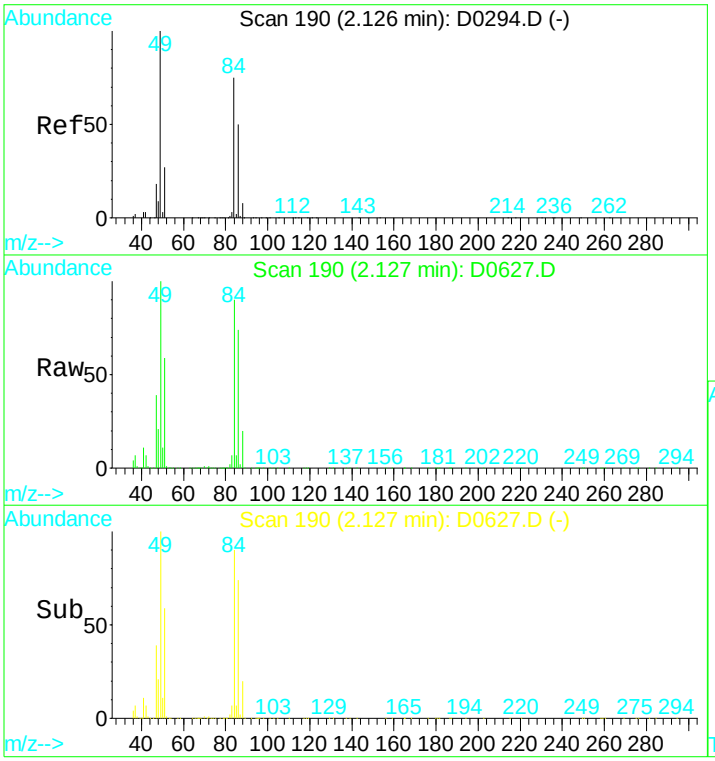


#17
Iodomethane
Concen: 0.97 ug/L
RT: 2.04 min Scan# 176
Delta R.T. 0.00 min
Lab File: D0627.D
Acq: 2 Aug 2016 1:42 pm

Tgt Ion:142 Resp: 214

Ion	Ratio	Lower	Upper
142	100		
127	54.4	17.9	57.9

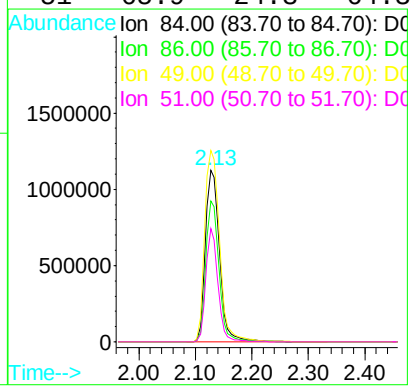




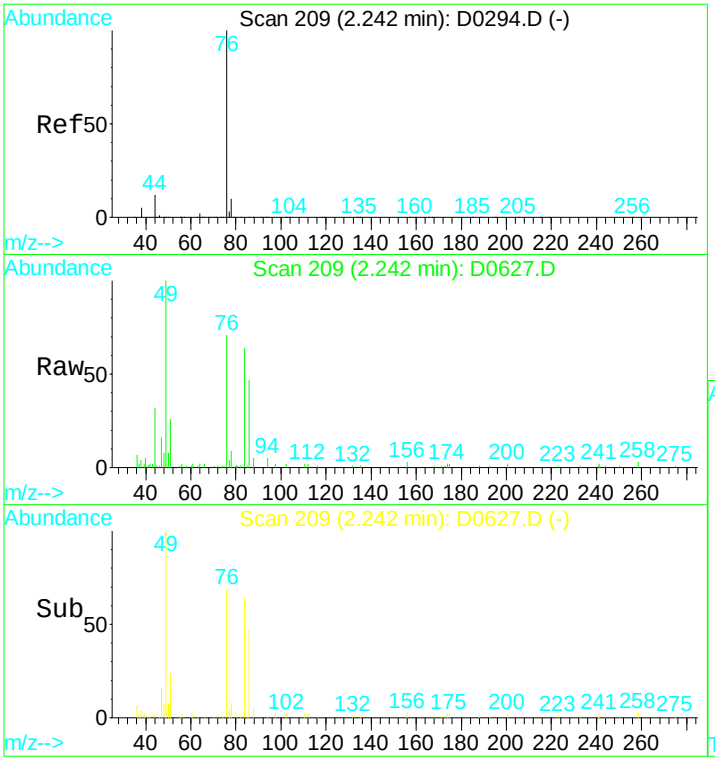
#20
Methylene Chloride
Concen: 515.41 ug/L
RT: 2.13 min Scan# 190
Delta R.T. 0.00 min
Lab File: D0627.D
Acq: 2 Aug 2016 1:42 pm

Tgt Ion: 84 Resp: 1973782

Ion	Ratio	Lower	Upper
84	100		
86	82.1	46.3	86.3
49	111.6	112.8	152.8#
51	65.9	24.3	64.3#



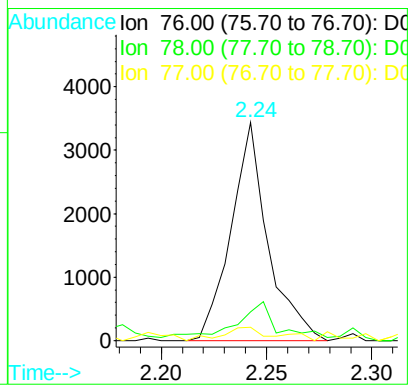
1st DL 08/03/16
2nd FJ 08/03/16

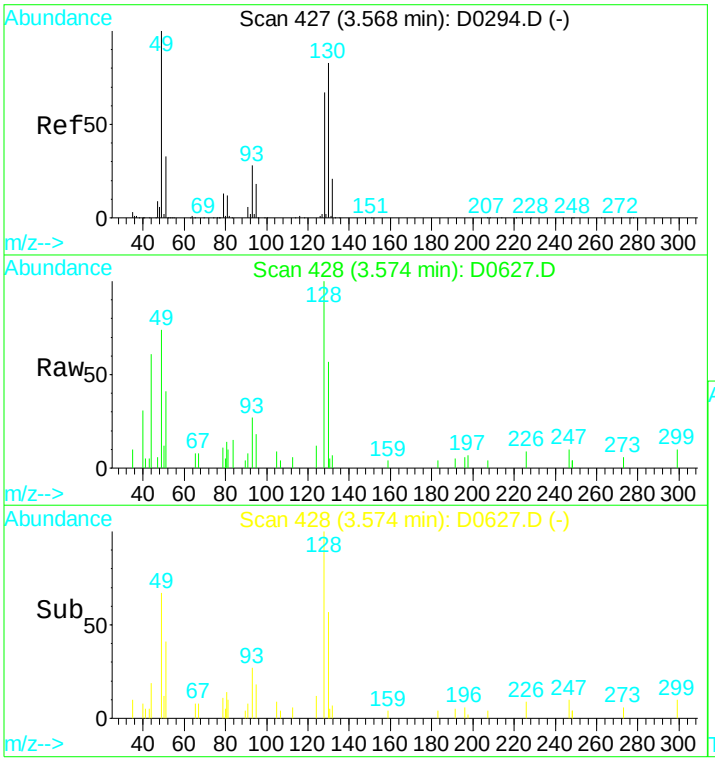


#24
Carbon Disulfide
Concen: 0.36 ug/L
RT: 2.24 min Scan# 209
Delta R.T. 0.00 min
Lab File: D0627.D
Acq: 2 Aug 2016 1:42 pm

Tgt Ion: 76 Resp: 4195

Ion	Ratio	Lower	Upper
76	100		
78	13.2	0.0	30.6
77	6.1	0.0	23.4

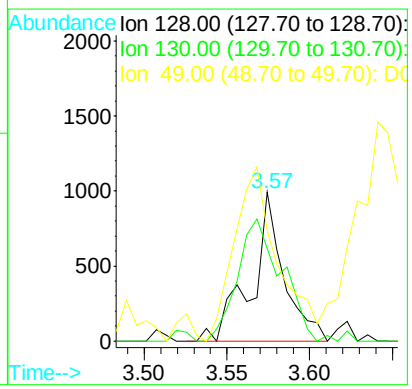




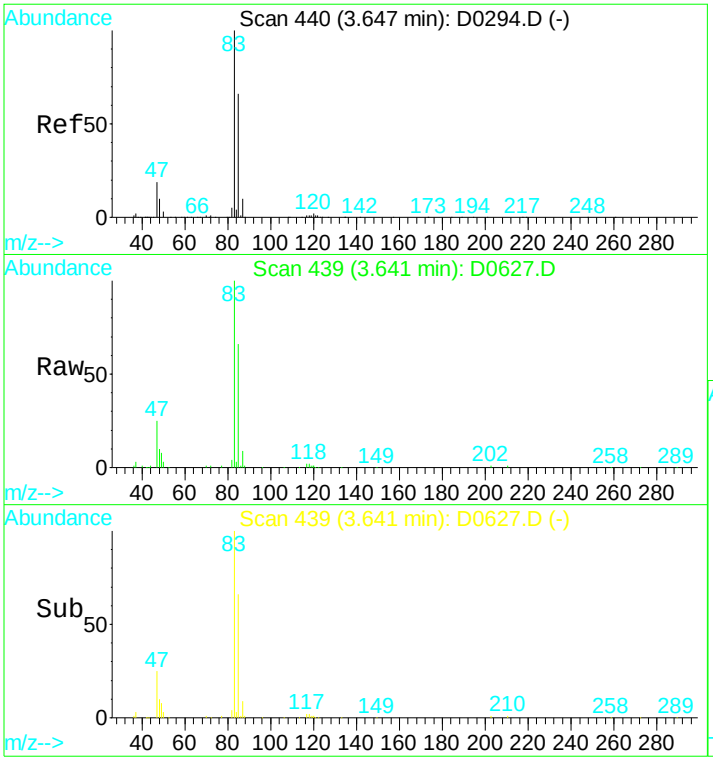
#34
Bromochloromethane
Concen: 0.82 ug/L
RT: 3.57 min Scan# 428
Delta R.T. 0.01 min
Lab File: D0627.D
Acq: 2 Aug 2016 1:42 pm

Tgt Ion:128 Resp: 1350

Ion	Ratio	Lower	Upper
128	100		
130	62.1	104.3	144.3#
49	74.5	130.0	170.0#



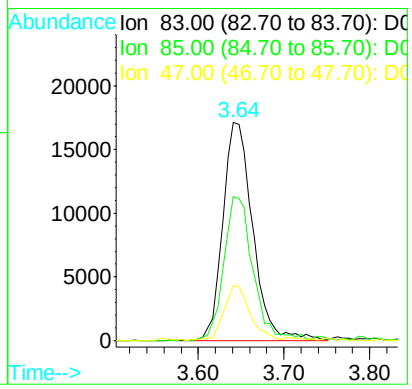
1st DL 08/03/16
2nd FJ 08/03/16

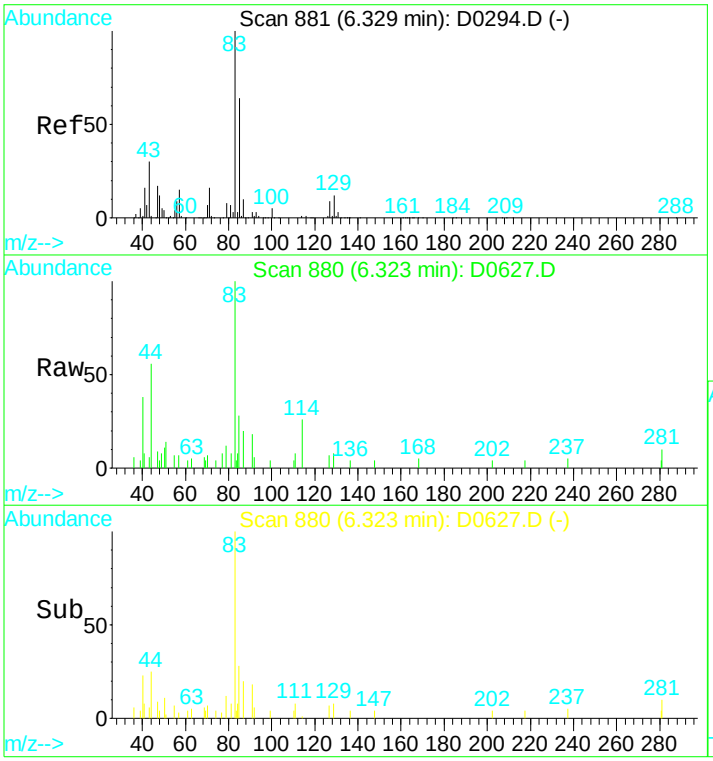


#35
Chloroform
Concen: 6.65 ug/L
RT: 3.64 min Scan# 439
Delta R.T. -0.01 min
Lab File: D0627.D
Acq: 2 Aug 2016 1:42 pm

Tgt Ion: 83 Resp: 41460

Ion	Ratio	Lower	Upper
83	100		
85	65.8	46.0	86.0
47	25.2	0.8	40.8

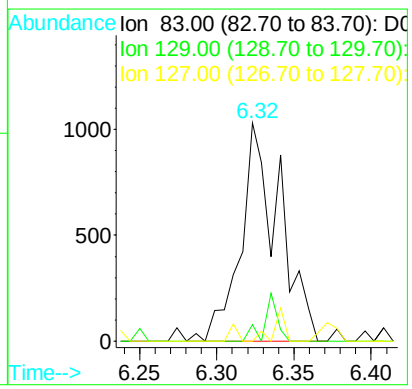




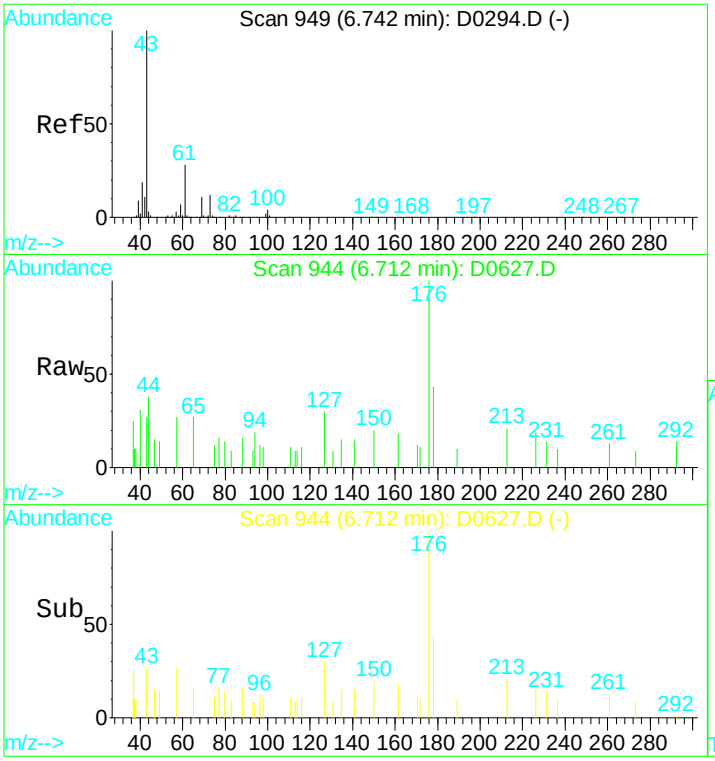
#55
Bromodichloromethane
Concen: 0.41 ug/L
RT: 6.32 min Scan# 880
Delta R.T. -0.01 min
Lab File: D0627.D
Acq: 2 Aug 2016 1:42 pm

Tgt Ion: 83 Resp: 1800

Ion	Ratio	Lower	Upper
83	100		
129	7.2	0.0	31.4
127	4.1	0.0	28.8



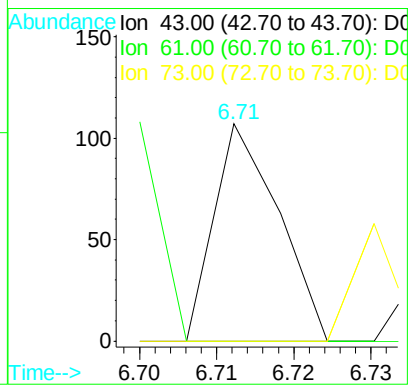
1st DL 08/03/16
2nd FJ 08/03/16

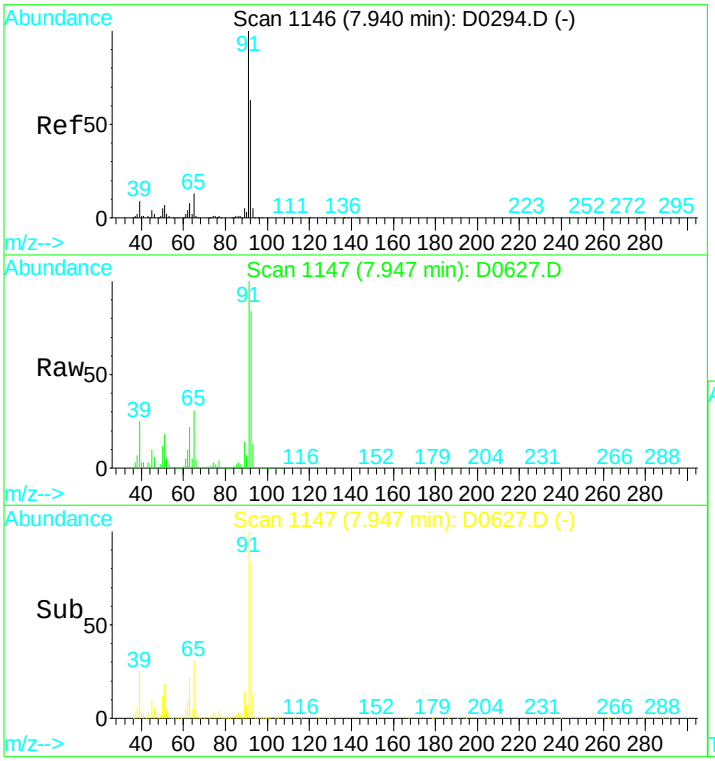


#60
n-Propyl Acetate
Concen: Below Cal
RT: 6.71 min Scan# 944
Delta R.T. -0.03 min
Lab File: D0627.D
Acq: 2 Aug 2016 1:42 pm

Tgt Ion: 43 Resp: 62

Ion	Ratio	Lower	Upper
43	100		
61	0.0	7.8	47.8#
73	0.0	0.0	31.7

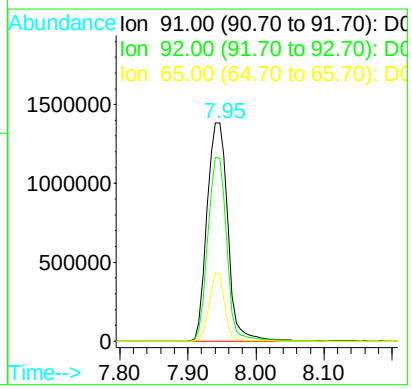




#68
Toluene
Concen: 208.63 ug/L
RT: 7.95 min Scan# 1147
Delta R.T. 0.01 min
Lab File: D0627.D
Acq: 2 Aug 2016 1:42 pm

Tgt Ion: 91 Resp: 2926063

Ion	Ratio	Lower	Upper
91	100		
92	75.9	40.9	80.9
65	23.3	0.0	31.9



1st DL 08/03/16
2nd FJ 08/03/16

Quantitation Report (QT Reviewed)

Data File : I:\ACQUDATA\MSVOA6\DATA\080216\D0624.D Vial: 9
Acq On : 2 Aug 2016 12:07 pm Operator: D.LIPANI
Sample : R1607963-024|1.0 Inst : MS#6
Misc : ALS-Canada 8260C 15947 T4 Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Aug 3 13:20 2016 Quant Results File: W071416.RES

Quant Method : I:\ACQUDATA\M...\W071416.M (RTE Integrator)
Title : 8260C / 624 WATERS
Last Update : Mon Jul 18 16:21:59 2016
Response via : Initial Calibration
DataAcq Meth : W071416

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.52	168	351249	50.00	ug/L	0.00
40) 1,4-Difluorobenzene	5.82	114	527383	50.00	ug/L	0.00
69) d5-Chlorobenzene	9.18	117	459624	50.00	ug/L	0.00
89) 1,4-Dichlorobenzene-d4	11.29	152	256245	50.00	ug/L	0.00

System Monitoring Compounds						
41) surr4,Dibrflmethane	3.79	113	175100	51.56	ug/L	0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 103.12%			
43) surr1,1,2-dichloroethane-d	4.39	65	161476	53.23	ug/L	0.00
Spiked Amount 50.000	Range 65 - 130		Recovery = 106.46%			
67) SURR3,Toluene-d8	7.87	98	576027	54.30	ug/L	0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 108.60%			
88) SURR2,BFB	10.24	95	224072	50.74	ug/L	0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 101.48%			

Target Compounds						Qvalue
5) Bromomethane	1.38	94	792	0.31	ug/L	83
14) Acetone	1.80	43	17251	35.11	ug/L	93
17) Iodomethane	2.04	142	527	1.05	ug/L	88
20) Methylene Chloride	2.13	84	127218	34.44	ug/L	95
35) Chloroform	3.65	83	75207	12.51	ug/L	95
55) Bromodichloromethane	6.32	83	3934	0.91	ug/L	88
60) n-Propyl Acetate	6.74	43	22	Below Cal	#	54
68) Toluene	7.94	91	107696	7.88	ug/L	96

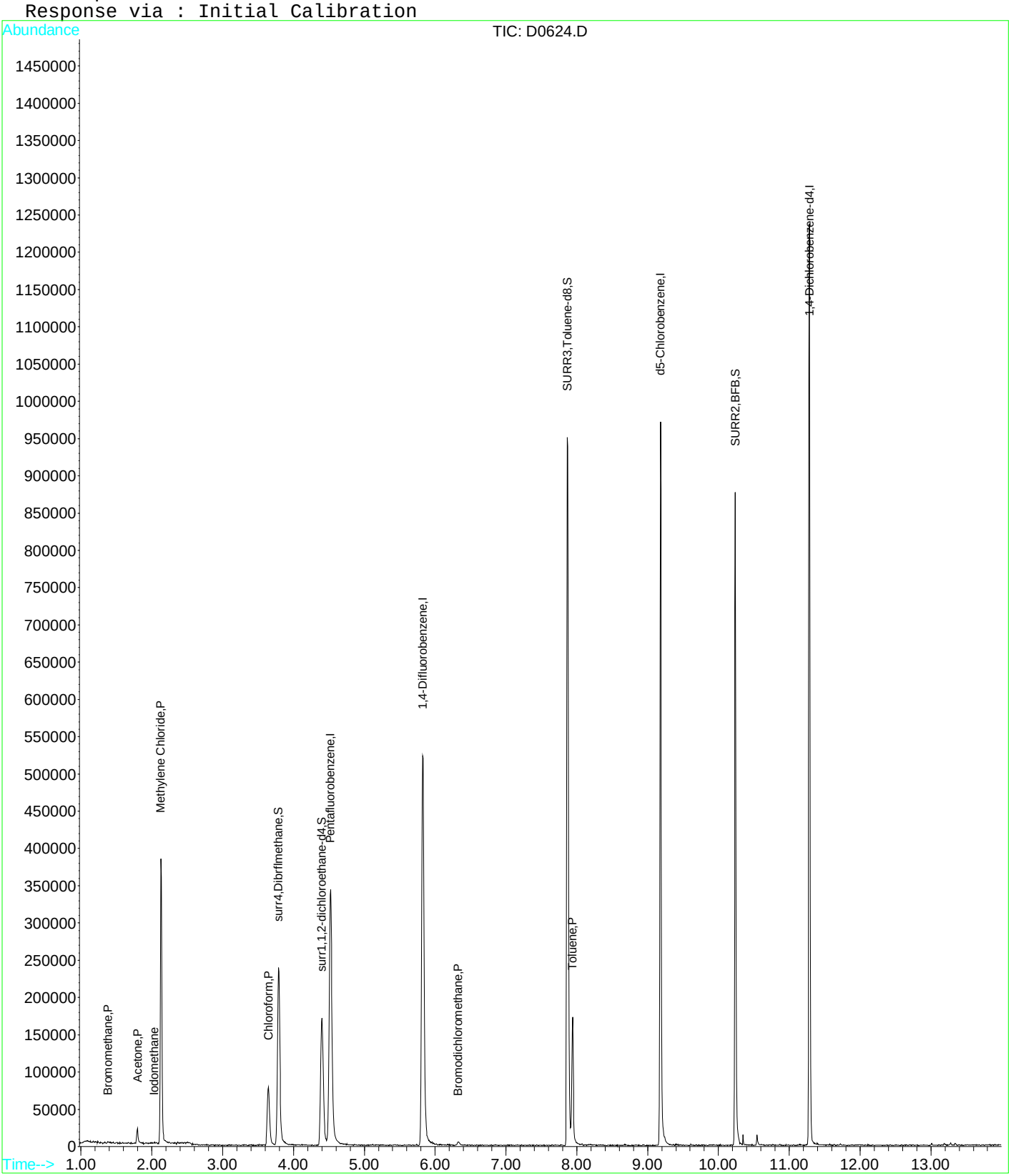
(#) = qualifier out of range (m) = manual integration

Quantitation Report

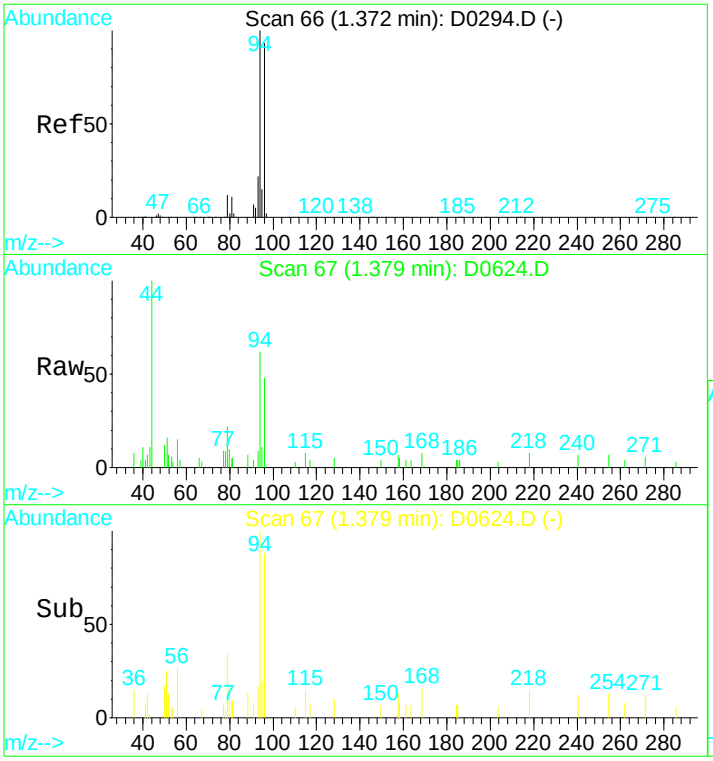
1st DL 08/03/16
2nd FN 08/03/16

Data File : I:\ACQUDATA\MSVOA6\DATA\080216\D0624.D Vial: 9
Acq On : 2 Aug 2016 12:07 pm Operator: D.LIPANI
Sample : R1607963-024|1.0 Inst : MS#6
Misc : ALS-Canada 8260C 15947 T4 Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Aug 3 13:20 2016 Quant Results File: W071416.RES

Method : I:\ACQUDATA\MSVOA6\METHODS\W071416.M (RTE Integrator)
Title : 8260C / 624 WATERS
Last Update : Mon Jul 18 16:21:59 2016
Response via : Initial Calibration



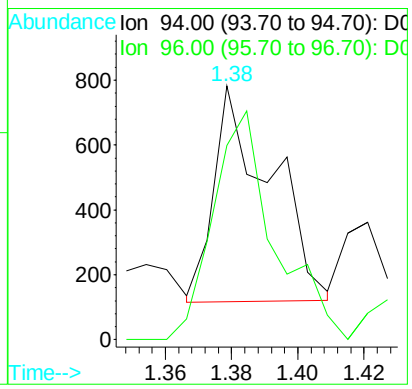
1st DL 08/03/16
2nd FJ 08/03/16

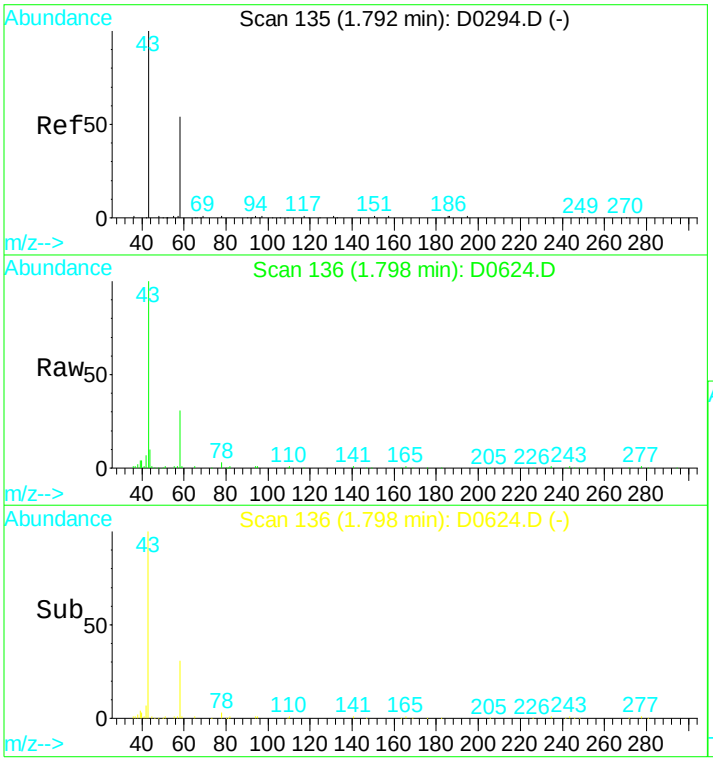


#5
Bromomethane
Concen: 0.31 ug/L
RT: 1.38 min Scan# 67
Delta R.T. 0.01 min
Lab File: D0624.D
Acq: 2 Aug 2016 12:07 pm

Tgt Ion: 94 Resp: 792

Ion	Ratio	Lower	Upper
94	100		
96	76.5	72.6	112.6

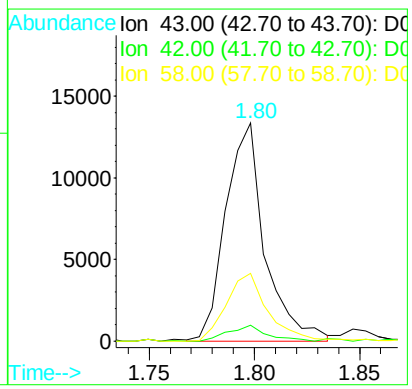




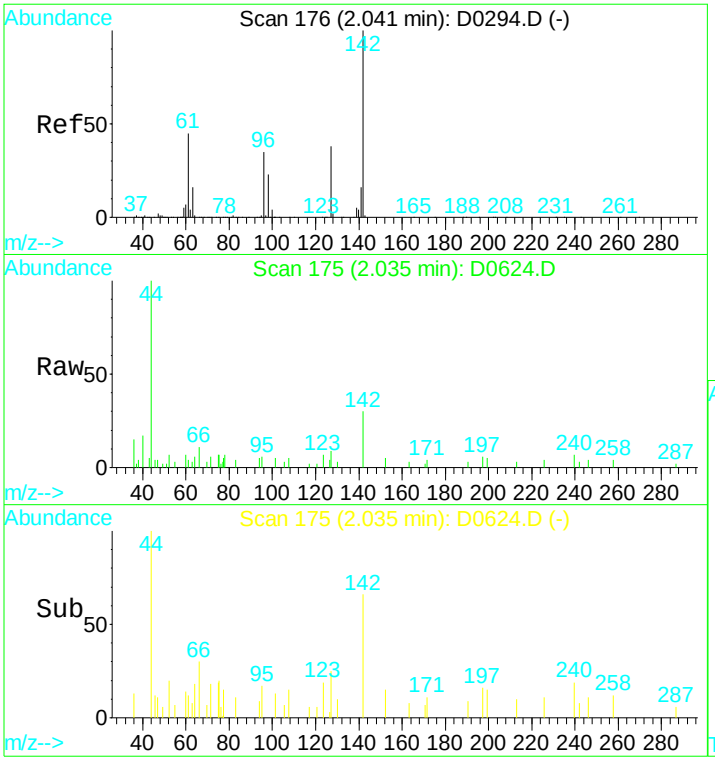
#14
Acetone
Concen: 35.11 ug/L
RT: 1.80 min Scan# 136
Delta R.T. 0.01 min
Lab File: D0624.D
Acq: 2 Aug 2016 12:07 pm

Tgt Ion: 43 Resp: 17251

Ion	Ratio	Lower	Upper
43	100		
42	7.4	0.0	27.9
58	31.0	16.0	56.0



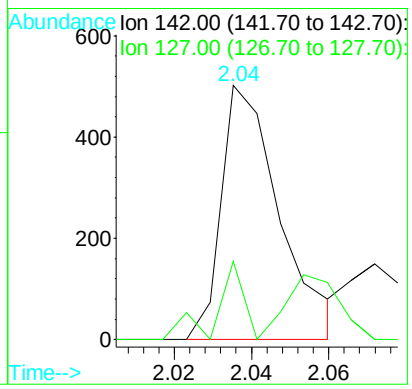
1st DL 08/03/16
2nd FJ 08/03/16

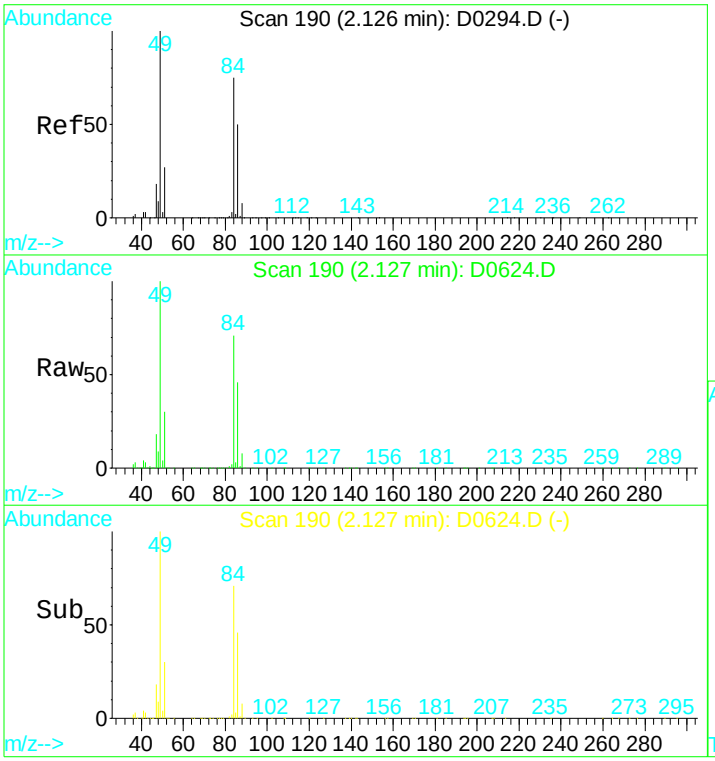


#17
Iodomethane
Concen: 1.05 ug/L
RT: 2.04 min Scan# 175
Delta R.T. -0.01 min
Lab File: D0624.D
Acq: 2 Aug 2016 12:07 pm

Tgt Ion:142 Resp: 527

Ion	Ratio	Lower	Upper
142	100		
127	30.7	17.9	57.9

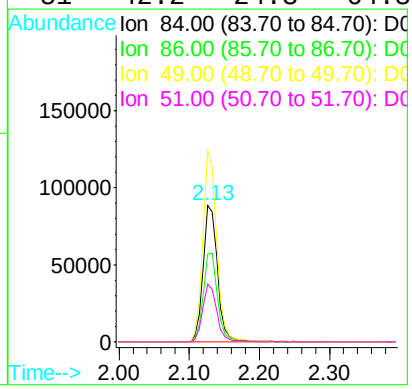




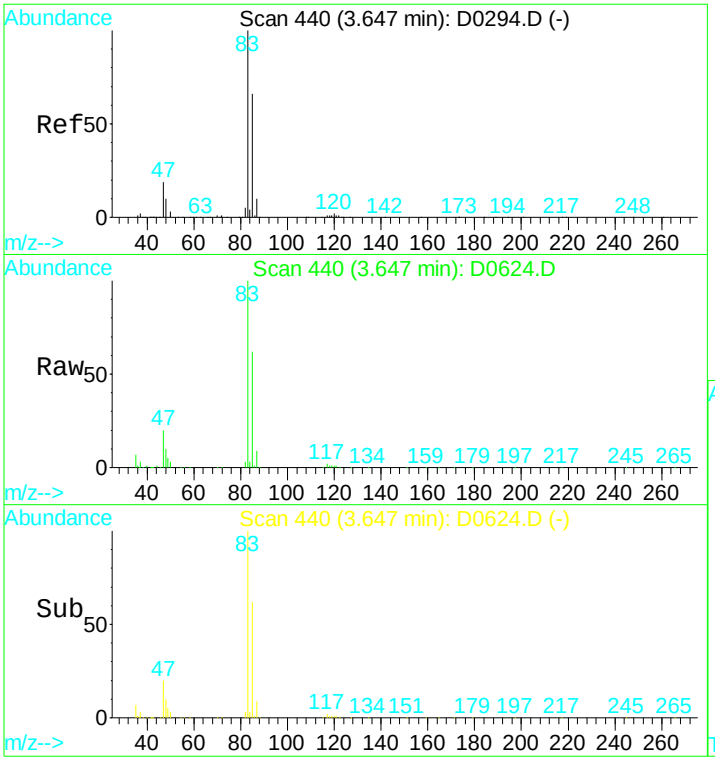
#20
Methylene Chloride
Concen: 34.44 ug/L
RT: 2.13 min Scan# 190
Delta R.T. 0.00 min
Lab File: D0624.D
Acq: 2 Aug 2016 12:07 pm

Tgt Ion: 84 Resp: 127218

Ion	Ratio	Lower	Upper
84	100		
86	64.0	46.3	86.3
49	140.2	112.8	152.8
51	42.2	24.3	64.3



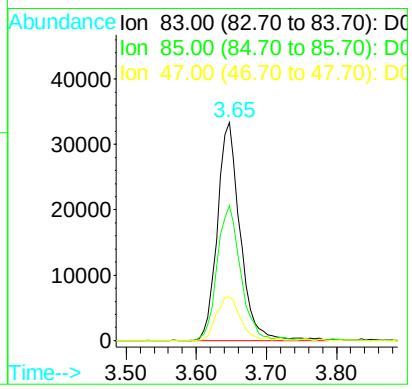
1st DL 08/03/16
2nd FJ 08/03/16

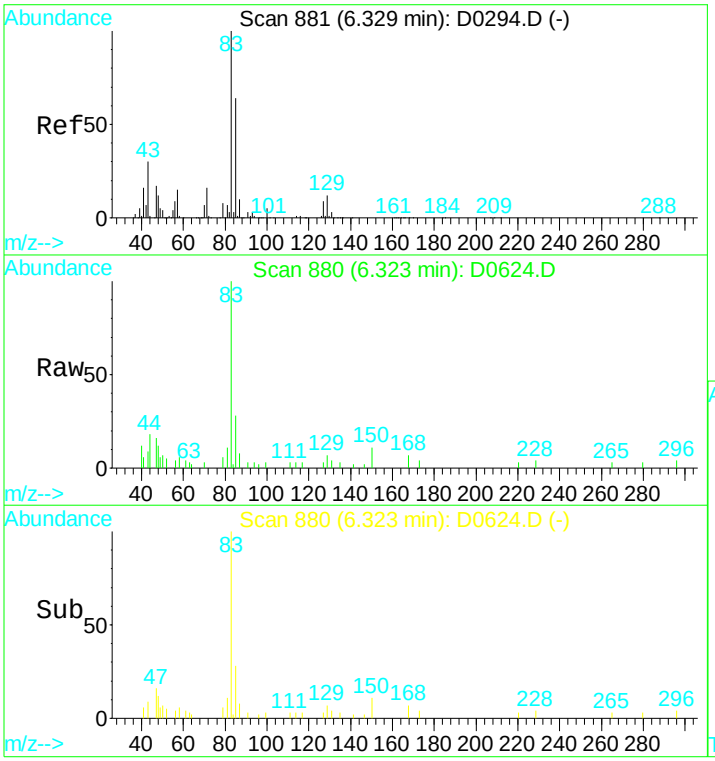


#35
Chloroform
Concen: 12.51 ug/L
RT: 3.65 min Scan# 440
Delta R.T. 0.00 min
Lab File: D0624.D
Acq: 2 Aug 2016 12:07 pm

Tgt Ion: 83 Resp: 75207

Ion	Ratio	Lower	Upper
83	100		
85	61.7	46.0	86.0
47	19.8	0.8	40.8

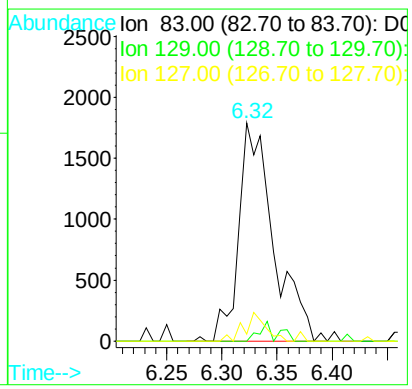




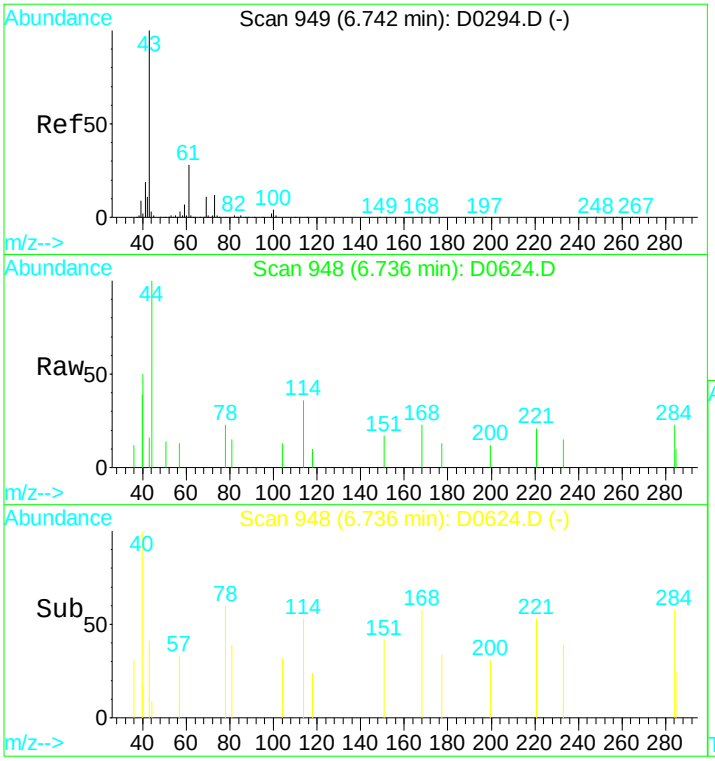
#55
Bromodichloromethane
Concen: 0.91 ug/L
RT: 6.32 min Scan# 880
Delta R.T. -0.01 min
Lab File: D0624.D
Acq: 2 Aug 2016 12:07 pm

Tgt Ion: 83 Resp: 3934

Ion	Ratio	Lower	Upper
83	100		
129	4.3	0.0	31.4
127	7.9	0.0	28.8



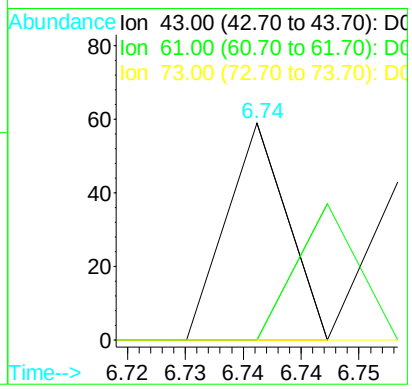
1st DL 08/03/16
2nd FJ 08/03/16

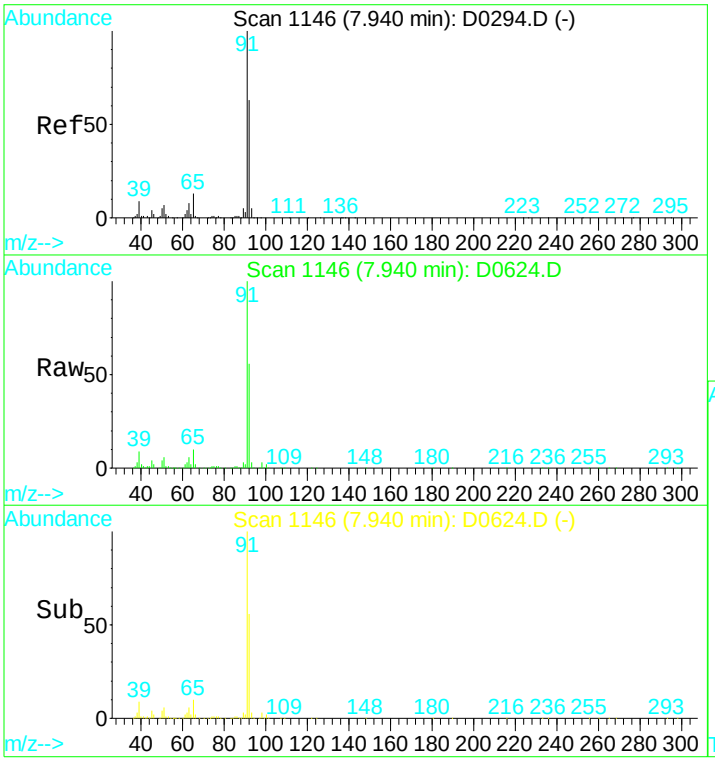


#60
n-Propyl Acetate
Concen: Below Cal
RT: 6.74 min Scan# 948
Delta R.T. -0.01 min
Lab File: D0624.D
Acq: 2 Aug 2016 12:07 pm

Tgt Ion: 43 Resp: 22

Ion	Ratio	Lower	Upper
43	100		
61	0.0	7.8	47.8#
73	0.0	0.0	31.7

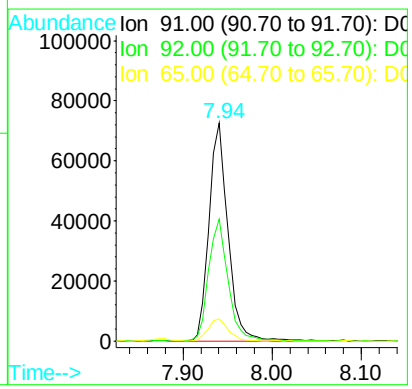




#68
Toluene
Concen: 7.88 ug/L
RT: 7.94 min Scan# 1146
Delta R.T. 0.00 min
Lab File: D0624.D
Acq: 2 Aug 2016 12:07 pm

Tgt Ion: 91 Resp: 107696

Ion	Ratio	Lower	Upper
91	100		
92	57.7	40.9	80.9
65	10.9	0.0	31.9



1st DL 08/03/16
2nd FJ 08/03/16

Quantitation Report (QT Reviewed)

Data File : I:\ACQUDATA\MSVOA6\DATA\080216\D0628.D Vial: 13
Acq On : 2 Aug 2016 2:15 pm Operator: D.LIPANI
Sample : R1607963-025|1.0 Inst : MS#6
Misc : ALS-Canada 8260C 15947 T4 Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Aug 3 13:38 2016 Quant Results File: W071416.RES

Quant Method : I:\ACQUDATA\M...\W071416.M (RTE Integrator)
Title : 8260C / 624 WATERS
Last Update : Mon Jul 18 16:21:59 2016
Response via : Initial Calibration
DataAcq Meth : W071416

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.52	168	355425	50.00	ug/L	0.00
40) 1,4-Difluorobenzene	5.82	114	550593	50.00	ug/L	0.00
69) d5-Chlorobenzene	9.18	117	462917	50.00	ug/L	0.00
89) 1,4-Dichlorobenzene-d4	11.28	152	252301	50.00	ug/L	0.00
System Monitoring Compounds						
41) surr4,Dibrflmethane	3.79	113	180554	50.93	ug/L	0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 101.86%			
43) surr1,1,2-dichloroethane-d	4.39	65	156767	49.50	ug/L	0.00
Spiked Amount 50.000	Range 65 - 130		Recovery = 99.00%			
67) SURR3,Toluene-d8	7.87	98	593331	53.57	ug/L	0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 107.14%			
88) SURR2,BFB	10.24	95	225889	50.79	ug/L	0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 101.58%			

Target Compounds						Qvalue
13) 2-Propanol	1.76	45	2932	30.35	ug/L	90
14) Acetone	1.79	43	425204	855.11	ug/L	100
20) Methylene Chloride	2.13	84	2291781	613.10	ug/L #	76
24) Carbon Disulfide	2.24	76	3703	0.32	ug/L	96
34) Bromochloromethane	3.57	128	1361	0.85	ug/L #	57
35) Chloroform	3.65	83	28452	4.68	ug/L	92
55) Bromodichloromethane	6.33	83	1058	0.24	ug/L	88
60) n-Propyl Acetate	6.72	43	44	Below Cal	#	54
68) Toluene	7.95	91	3191621	223.77	ug/L	77

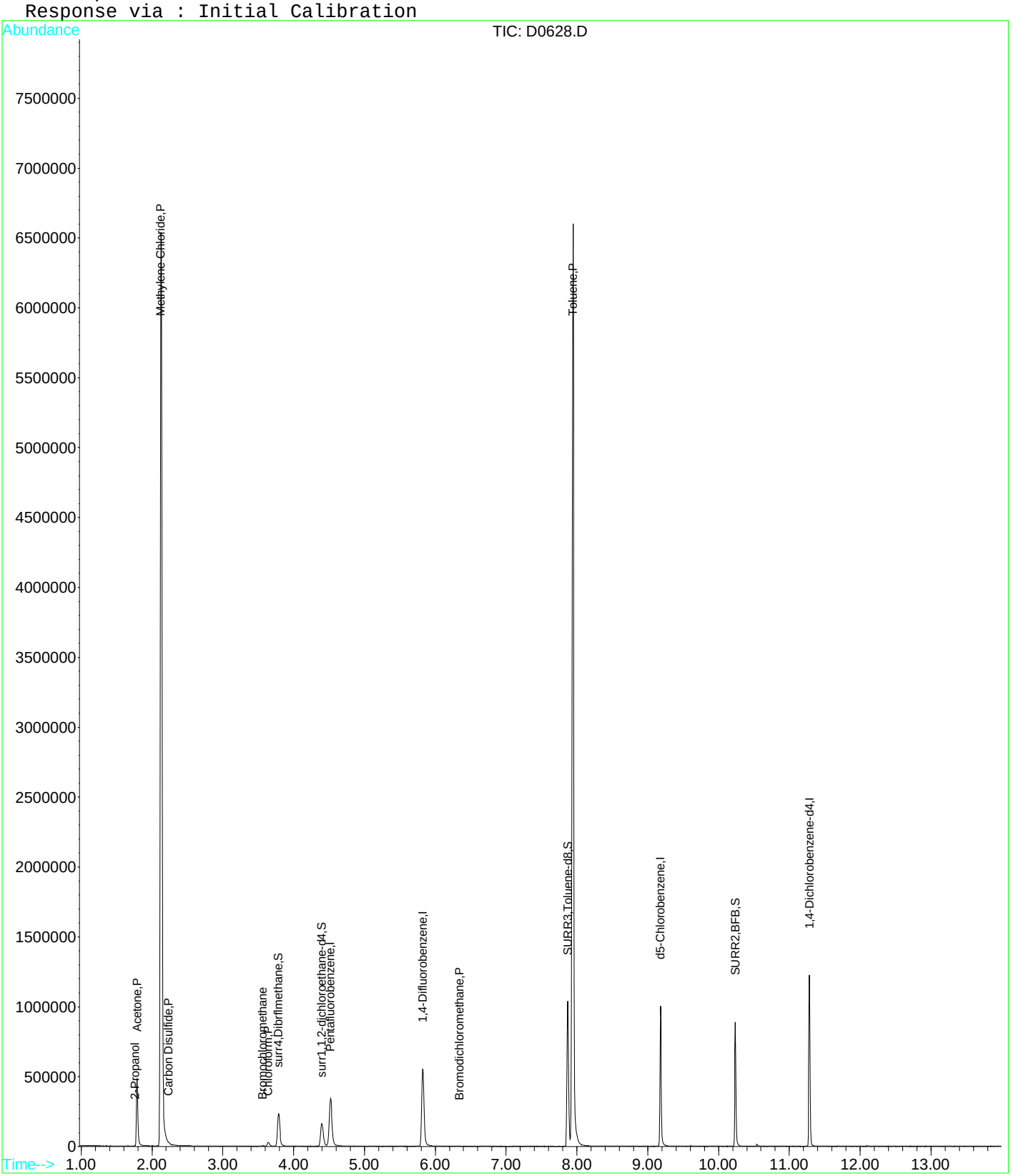
(#) = qualifier out of range (m) = manual integration

Quantitation Report

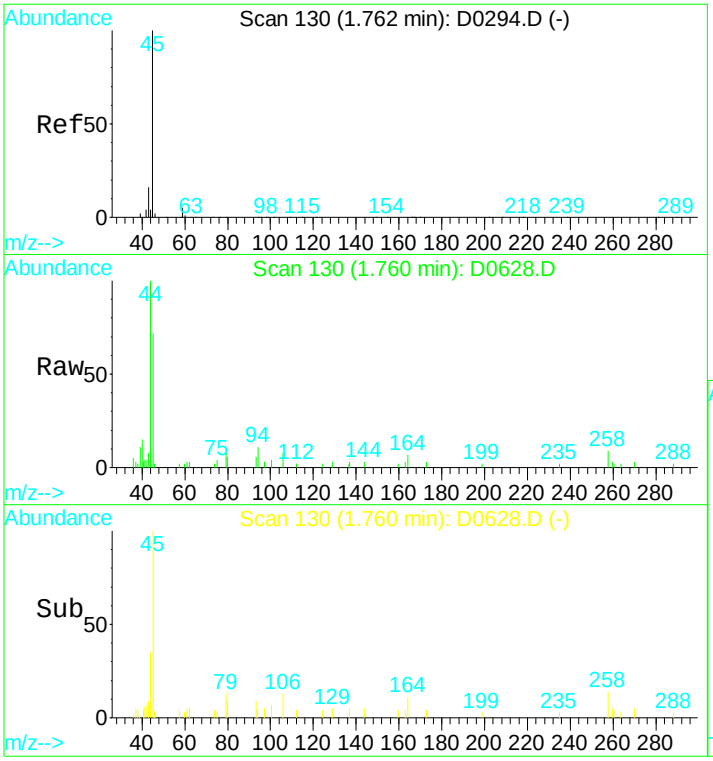
1st DL 08/03/16
2nd FJ 08/03/16

Data File : I:\ACQUDATA\MSVOA6\DATA\080216\D0628.D Vial: 13
Acq On : 2 Aug 2016 2:15 pm Operator: D.LIPANI
Sample : R1607963-025|1.0 Inst : MS#6
Misc : ALS-Canada 8260C 15947 T4 Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Aug 3 13:38 2016 Quant Results File: W071416.RES

Method : I:\ACQUDATA\MSVOA6\METHODS\W071416.M (RTE Integrator)
Title : 8260C / 624 WATERS
Last Update : Mon Jul 18 16:21:59 2016
Response via : Initial Calibration



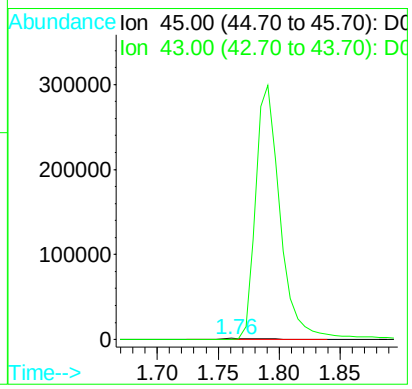
1st DL 08/03/16
2nd FJ 08/03/16

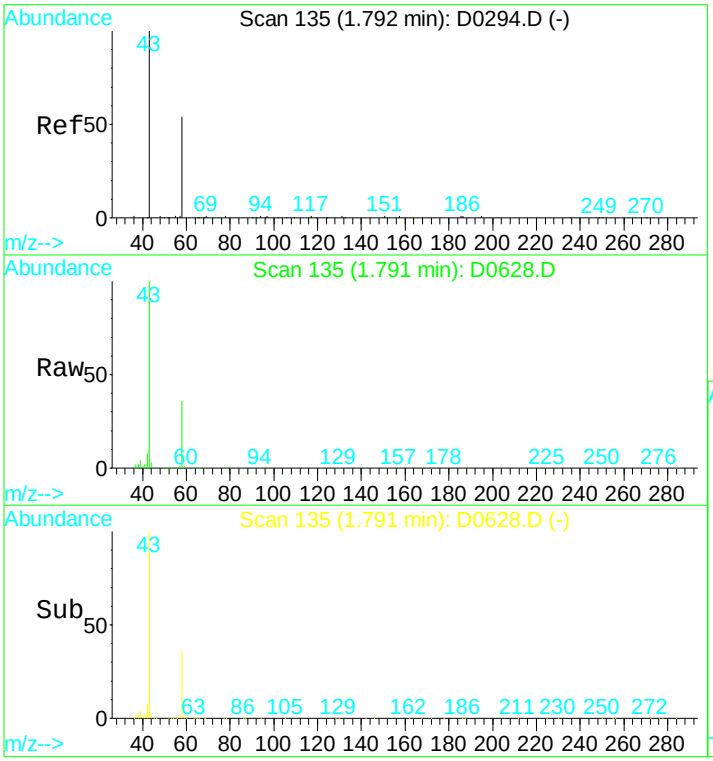


#13
2-Propanol
Concen: 30.35 ug/L
RT: 1.76 min Scan# 130
Delta R.T. -0.00 min
Lab File: D0628.D
Acq: 2 Aug 2016 2:15 pm

Tgt Ion: 45 Resp: 2932

Ion	Ratio	Lower	Upper
45	100		
43	11.7	0.0	36.1

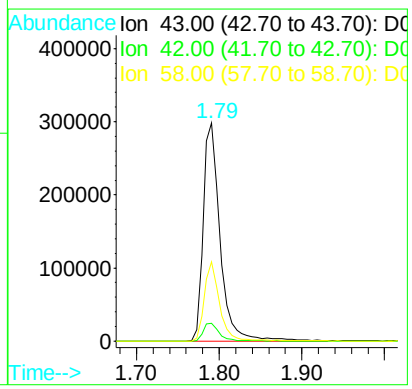




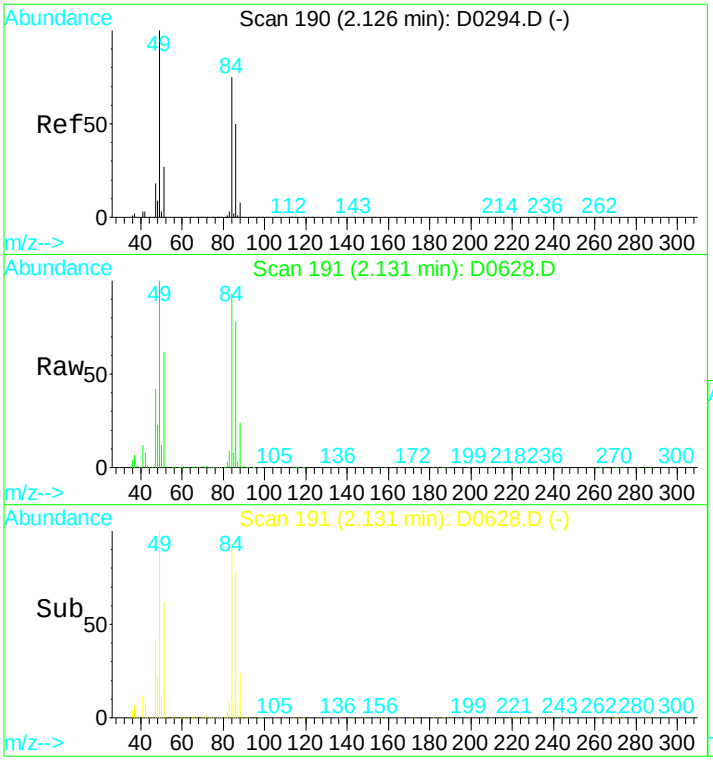
#14
Acetone
Concen: 855.11 ug/L
RT: 1.79 min Scan# 135
Delta R.T. -0.00 min
Lab File: D0628.D
Acq: 2 Aug 2016 2:15 pm

Tgt Ion: 43 Resp: 425204

Ion	Ratio	Lower	Upper
43	100		
42	8.2	0.0	27.9
58	36.2	16.0	56.0



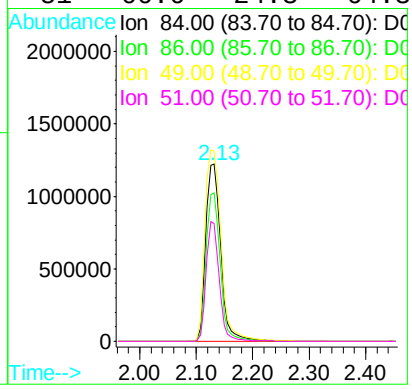
1st DL 08/03/16
2nd FJ 08/03/16

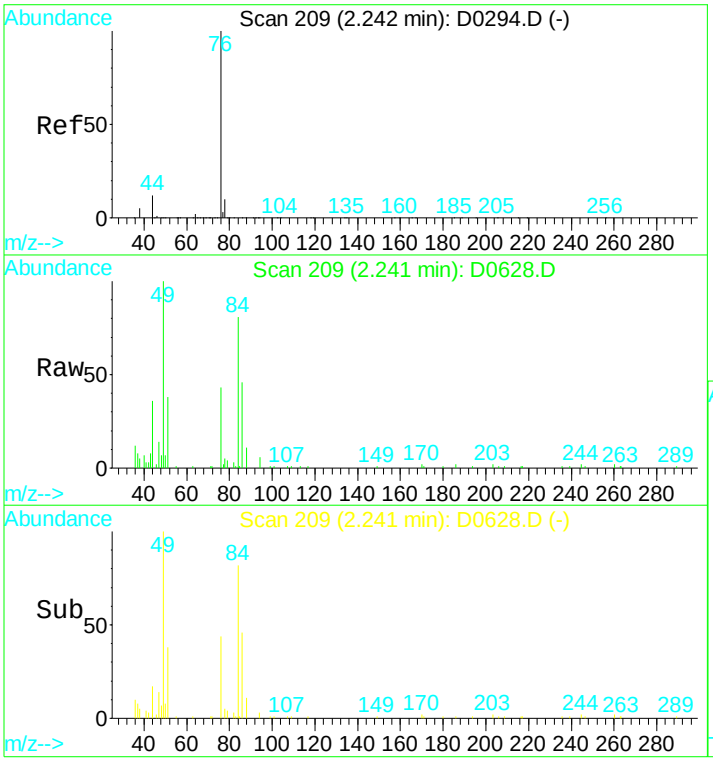


#20
Methylene Chloride
Concen: 613.10 ug/L
RT: 2.13 min Scan# 191
Delta R.T. 0.01 min
Lab File: D0628.D
Acq: 2 Aug 2016 2:15 pm

Tgt Ion: 84 Resp: 2291781

Ion	Ratio	Lower	Upper
84	100		
86	83.9	46.3	86.3
49	107.1	112.8	152.8#
51	66.6	24.3	64.3#

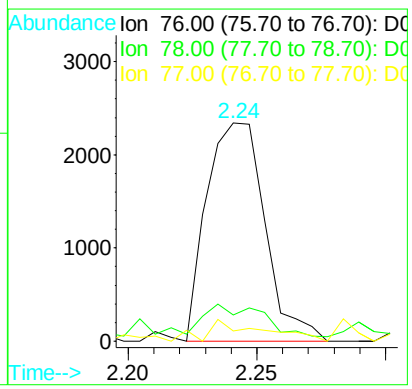




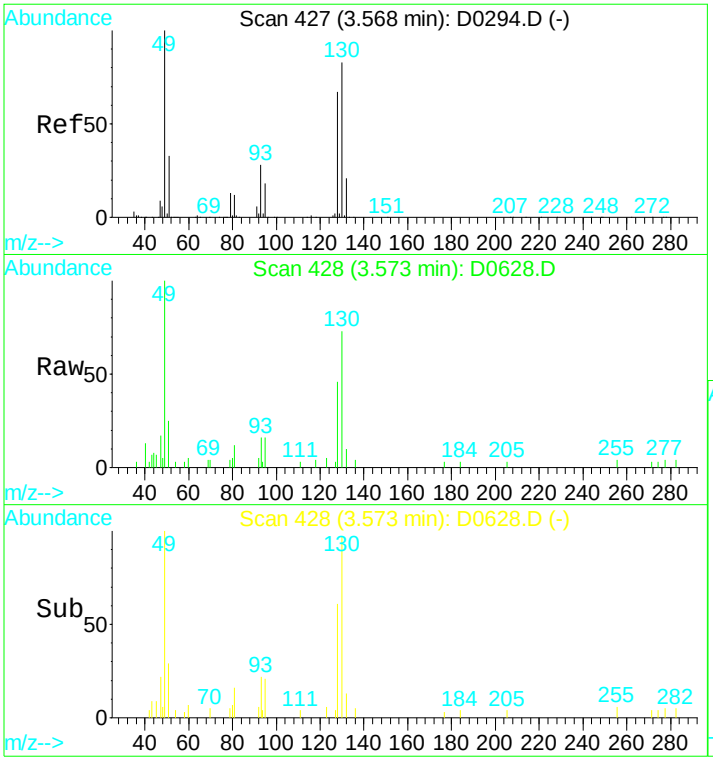
#24
Carbon Disulfide
Concen: 0.32 ug/L
RT: 2.24 min Scan# 209
Delta R.T. -0.00 min
Lab File: D0628.D
Acq: 2 Aug 2016 2:15 pm

Tgt Ion: 76 Resp: 3703

Ion	Ratio	Lower	Upper
76	100		
78	12.1	0.0	30.6
77	4.8	0.0	23.4



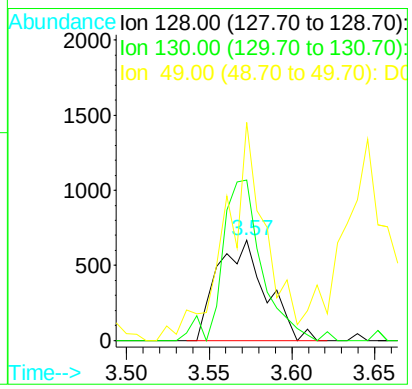
1st DL 08/03/16
2nd FJ 08/03/16

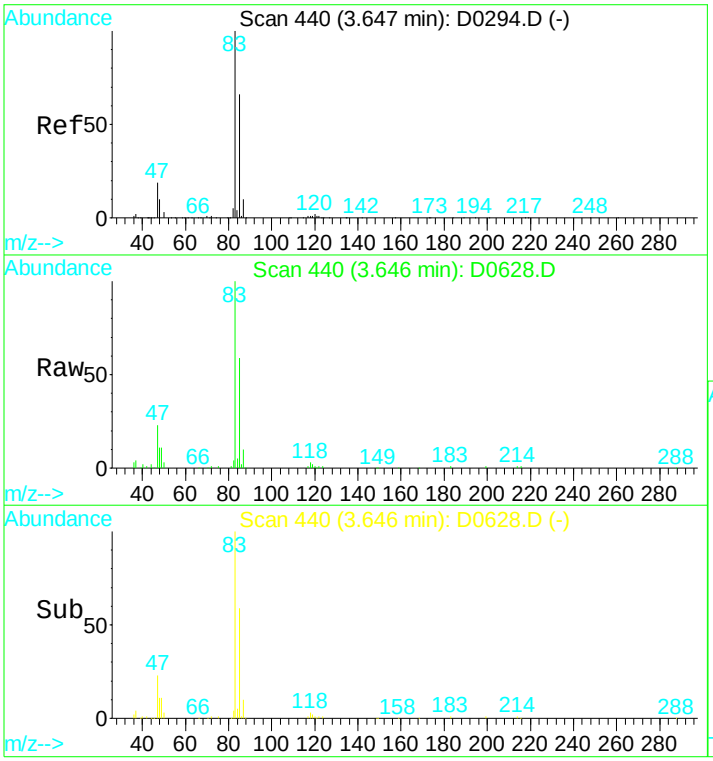


#34
Bromochloromethane
Concen: 0.85 ug/L
RT: 3.57 min Scan# 428
Delta R.T. 0.01 min
Lab File: D0628.D
Acq: 2 Aug 2016 2:15 pm

Tgt Ion:128 Resp: 1361

Ion	Ratio	Lower	Upper
128	100		
130	159.7	104.3	144.3#
49	217.7	130.0	170.0#

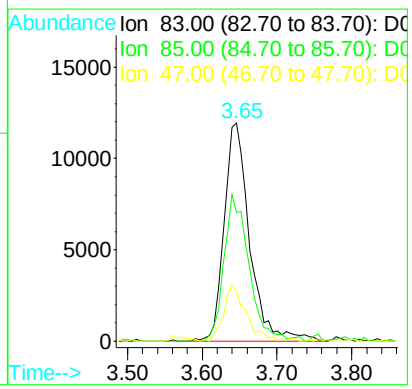




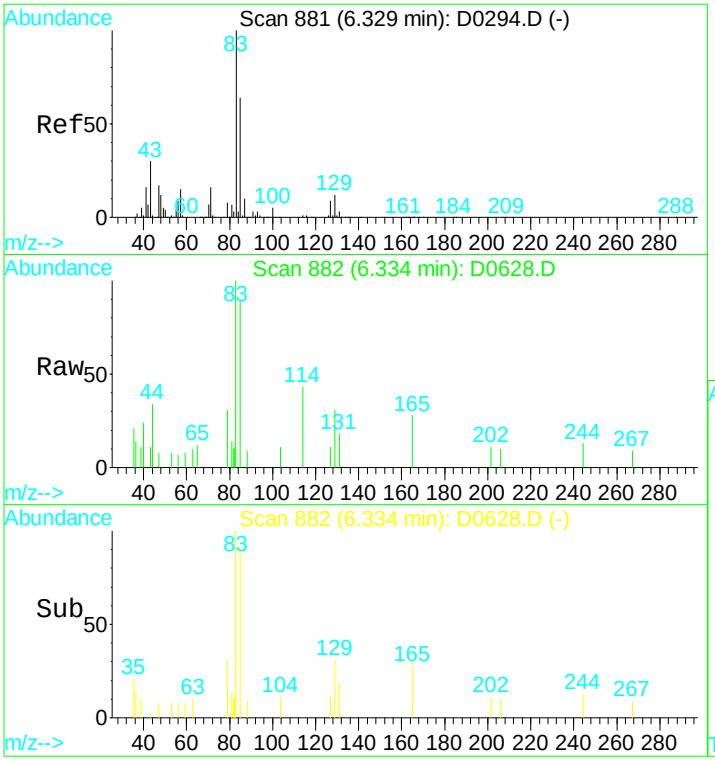
#35
Chloroform
Concen: 4.68 ug/L
RT: 3.65 min Scan# 440
Delta R.T. -0.00 min
Lab File: D0628.D
Acq: 2 Aug 2016 2:15 pm

Tgt Ion: 83 Resp: 28452

Ion	Ratio	Lower	Upper
83	100		
85	58.7	46.0	86.0
47	22.7	0.8	40.8



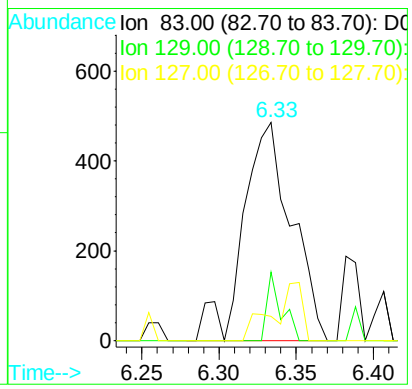
1st DL 08/03/16
2nd FJ 08/03/16

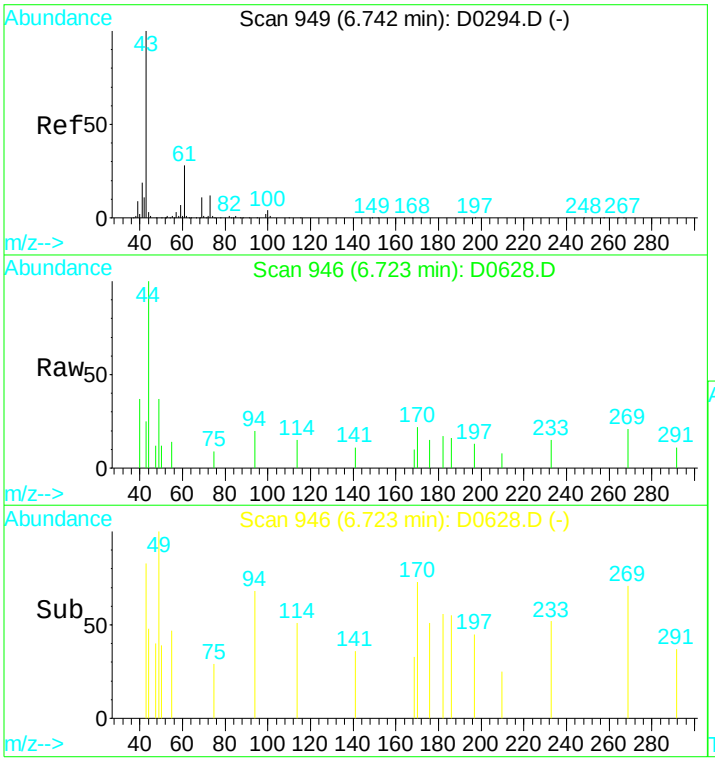


#55
Bromodichloromethane
Concen: 0.24 ug/L
RT: 6.33 min Scan# 882
Delta R.T. 0.01 min
Lab File: D0628.D
Acq: 2 Aug 2016 2:15 pm

Tgt Ion: 83 Resp: 1058

Ion	Ratio	Lower	Upper
83	100		
129	9.3	0.0	31.4
127	16.0	0.0	28.8

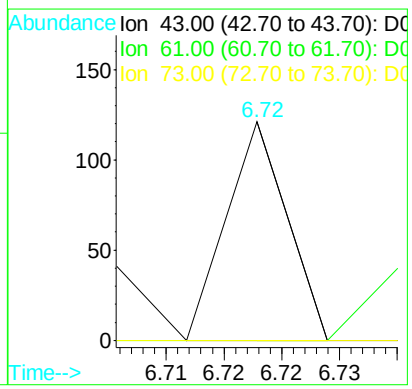




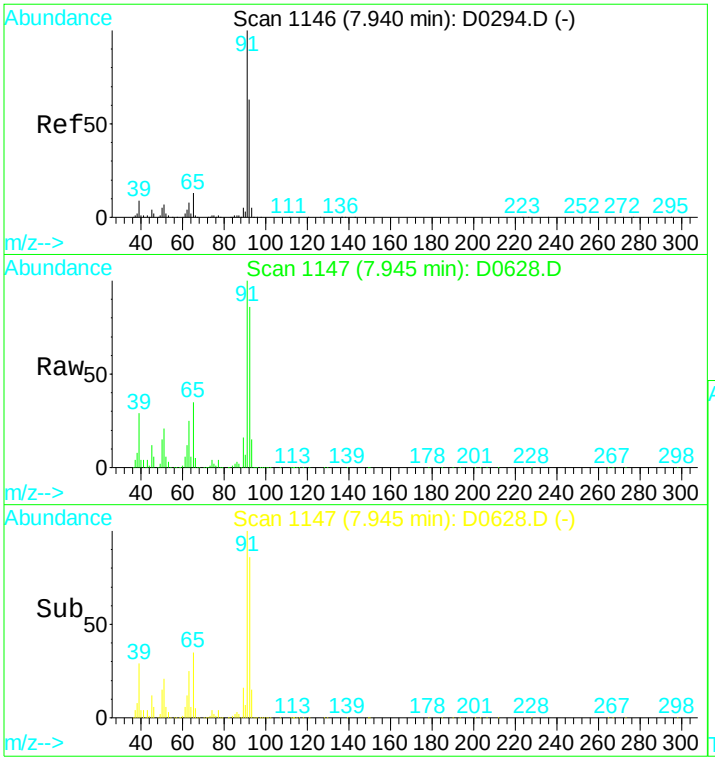
#60
n-Propyl Acetate
Concen: Below Cal
RT: 6.72 min Scan# 946
Delta R.T. -0.02 min
Lab File: D0628.D
Acq: 2 Aug 2016 2:15 pm

Tgt Ion: 43 Resp: 44

Ion	Ratio	Lower	Upper
43	100		
61	0.0	7.8	47.8#
73	0.0	0.0	31.7



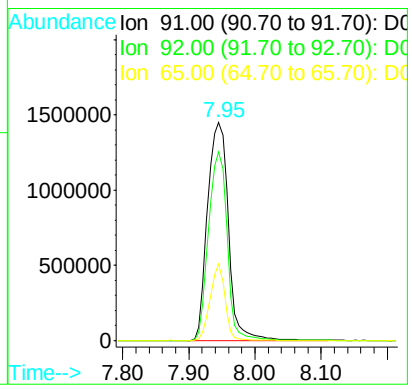
1st DL 08/03/16
2nd FJ 08/03/16



#68
Toluene
Concen: 223.77 ug/L
RT: 7.95 min Scan# 1147
Delta R.T. 0.01 min
Lab File: D0628.D
Acq: 2 Aug 2016 2:15 pm

Tgt Ion: 91 Resp: 3191621

Ion	Ratio	Lower	Upper
91	100		
92	77.2	40.9	80.9
65	24.9	0.0	31.9



1st DL 08/03/16
2nd FJ 08/03/16

Quantitation Report (QT Reviewed)

Data File : I:\ACQUDATA\MSVOA6\DATA\080216\D0629.D Vial: 14
Acq On : 2 Aug 2016 2:46 pm Operator: D.LIPANI
Sample : R1607963-026|1.0 Inst : MS#6
Misc : ALS-Canada 8260C 15947 T4 Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Aug 3 13:41 2016 Quant Results File: W071416.RES

Quant Method : I:\ACQUDATA\M...\W071416.M (RTE Integrator)
Title : 8260C / 624 WATERS
Last Update : Mon Jul 18 16:21:59 2016
Response via : Initial Calibration
DataAcq Meth : W071416

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.53	168	362033	50.00	ug/L	0.00
40) 1,4-Difluorobenzene	5.82	114	556679	50.00	ug/L	0.00
69) d5-Chlorobenzene	9.18	117	459603	50.00	ug/L	0.00
89) 1,4-Dichlorobenzene-d4	11.28	152	256195	50.00	ug/L	0.00
System Monitoring Compounds						
41) surr4,Dibrflmethane	3.79	113	180047	50.23	ug/L	0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 100.46%			
43) surr1,1,2-dichloroethane-d	4.39	65	157714	49.25	ug/L	0.00
Spiked Amount 50.000	Range 65 - 130		Recovery = 98.50%			
67) SURR3,Toluene-d8	7.87	98	593582	53.01	ug/L	0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 106.02%			
88) SURR2,BFB	10.24	95	228348	51.71	ug/L	0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 103.42%			

Target Compounds						Qvalue
5) Bromomethane	1.38	94	635	0.24	ug/L #	60
14) Acetone	1.79	43	468012	924.02	ug/L	99
17) Iodomethane	2.03	142	238	0.98	ug/L #	37
20) Methylene Chloride	2.13	84	2165735	568.80	ug/L #	77
24) Carbon Disulfide	2.24	76	2675	0.23	ug/L	96
34) Bromochloromethane	3.57	128	911	0.56	ug/L #	59
35) Chloroform	3.64	83	22152	3.58	ug/L	96
68) Toluene	7.94	91	2964760	205.59	ug/L	78

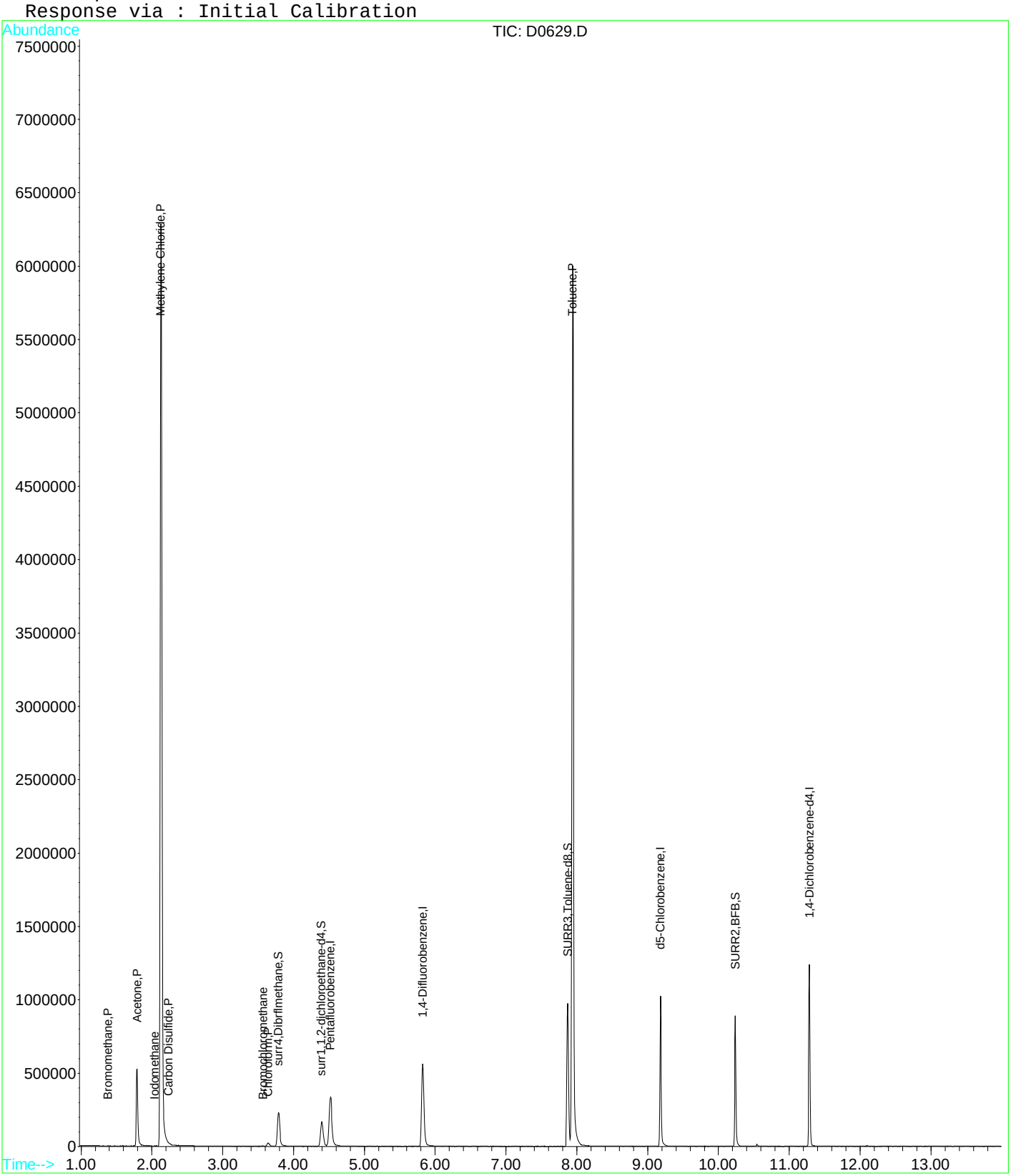
(#) = qualifier out of range (m) = manual integration

Quantitation Report

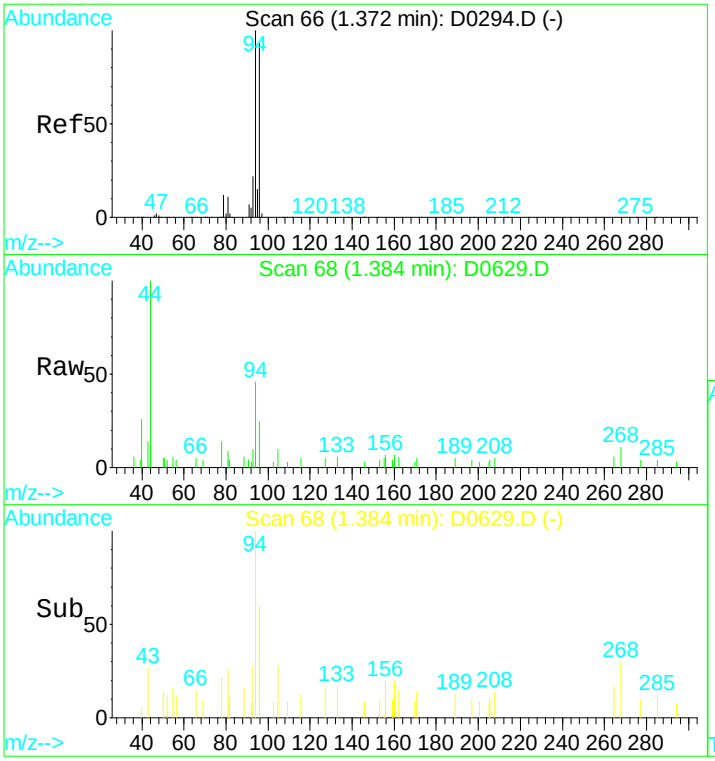
1st DL 08/03/16
2nd FJ 08/03/16

Data File : I:\ACQUDATA\MSVOA6\DATA\080216\D0629.D Vial: 14
Acq On : 2 Aug 2016 2:46 pm Operator: D.LIPANI
Sample : R1607963-026|1.0 Inst : MS#6
Misc : ALS-Canada 8260C 15947 T4 Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Aug 3 13:41 2016 Quant Results File: W071416.RES

Method : I:\ACQUDATA\MSVOA6\METHODS\W071416.M (RTE Integrator)
Title : 8260C / 624 WATERS
Last Update : Mon Jul 18 16:21:59 2016
Response via : Initial Calibration



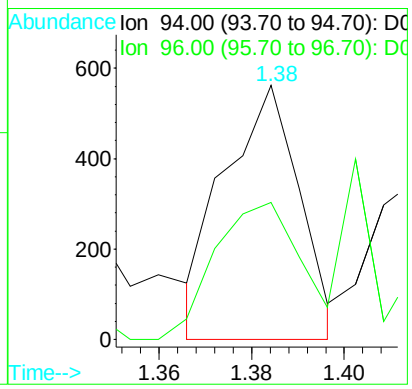
1st DL 08/03/16
2nd FJ 08/03/16

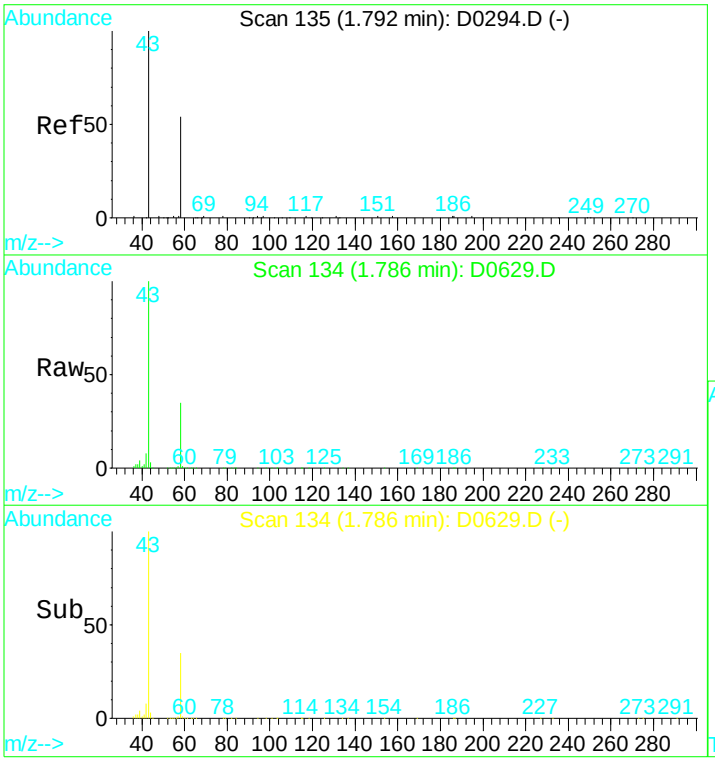


#5
Bromomethane
Concen: 0.24 ug/L
RT: 1.38 min Scan# 68
Delta R.T. 0.01 min
Lab File: D0629.D
Acq: 2 Aug 2016 2:46 pm

Tgt Ion: 94 Resp: 635

Ion	Ratio	Lower	Upper
94	100		
96	53.9	72.6	112.6#

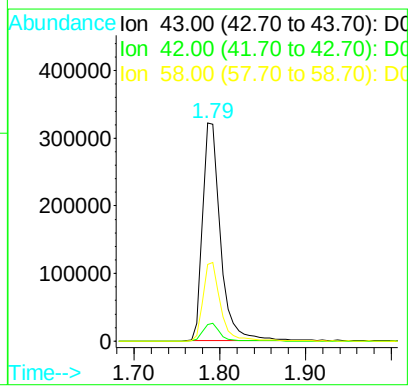




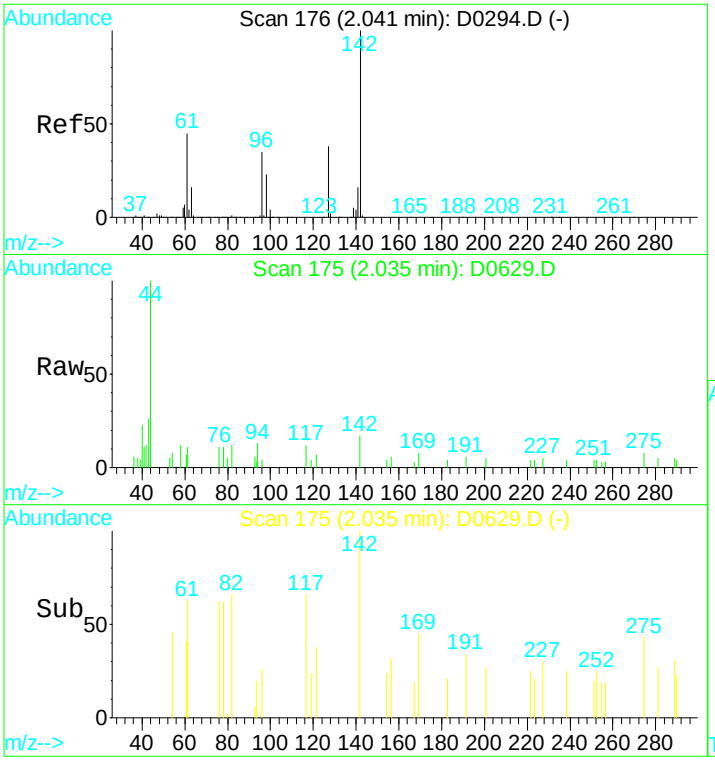
#14
Acetone
Concen: 924.02 ug/L
RT: 1.79 min Scan# 134
Delta R.T. -0.01 min
Lab File: D0629.D
Acq: 2 Aug 2016 2:46 pm

Tgt Ion: 43 Resp: 468012

Ion	Ratio	Lower	Upper
43	100		
42	7.7	0.0	27.9
58	35.1	16.0	56.0



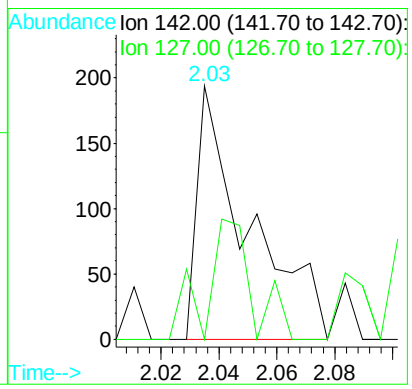
1st DL 08/03/16
2nd FJ 08/03/16

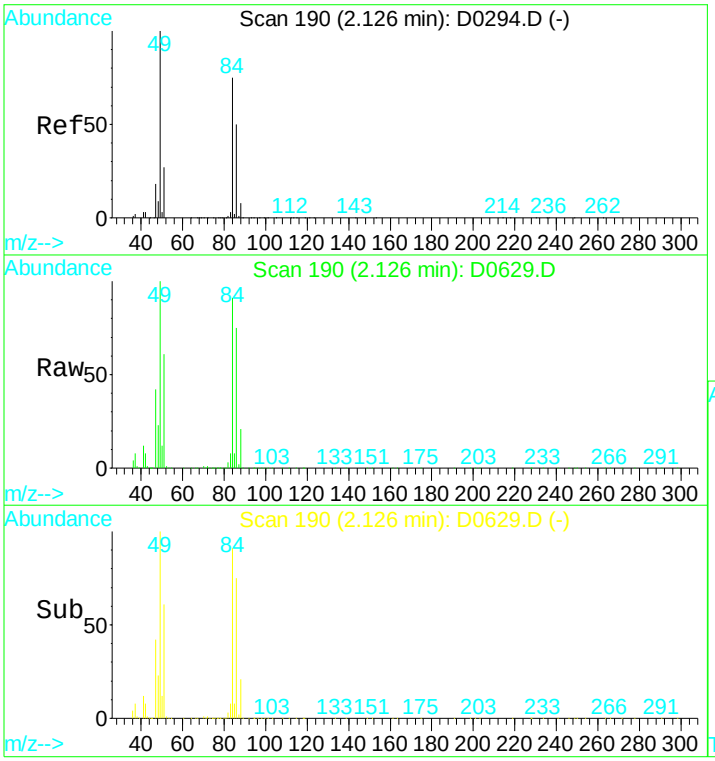


#17
Iodomethane
Concen: 0.98 ug/L
RT: 2.03 min Scan# 175
Delta R.T. -0.01 min
Lab File: D0629.D
Acq: 2 Aug 2016 2:46 pm

Tgt Ion:142 Resp: 238

Ion	Ratio	Lower	Upper
142	100		
127	0.0	17.9	57.9#

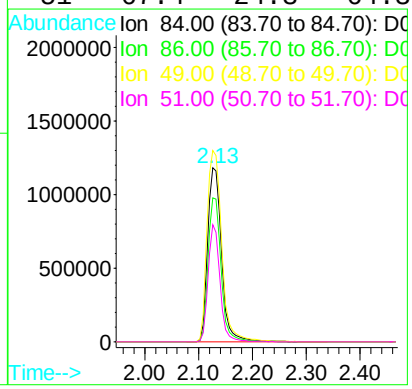




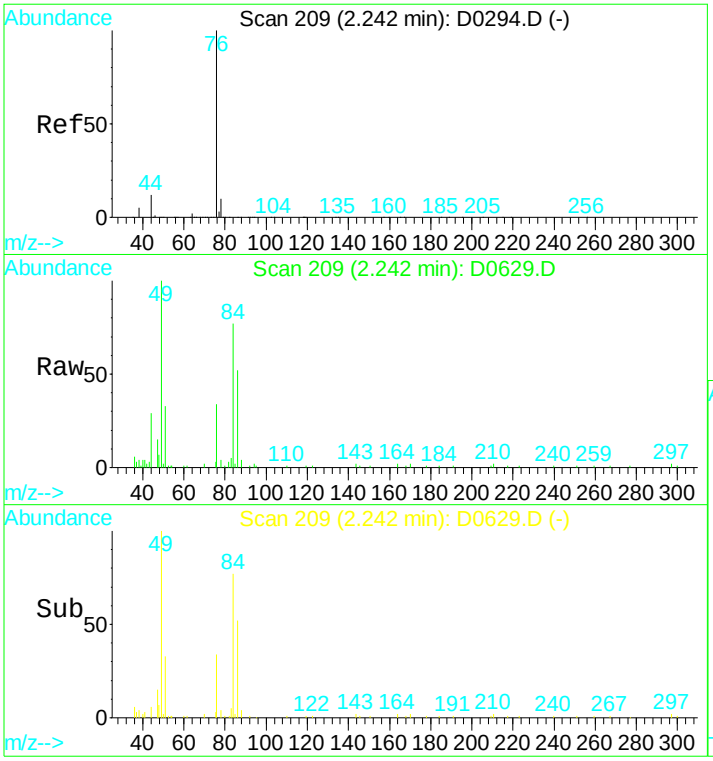
#20
Methylene Chloride
Concen: 568.80 ug/L
RT: 2.13 min Scan# 190
Delta R.T. 0.00 min
Lab File: D0629.D
Acq: 2 Aug 2016 2:46 pm

Tgt Ion: 84 Resp: 2165735

Ion	Ratio	Lower	Upper
84	100		
86	82.9	46.3	86.3
49	110.2	112.8	152.8#
51	67.4	24.3	64.3#



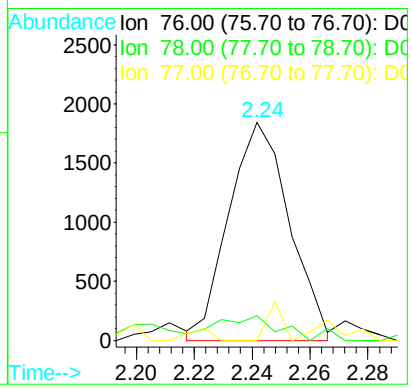
1st DL 08/03/16
2nd FJ 08/03/16

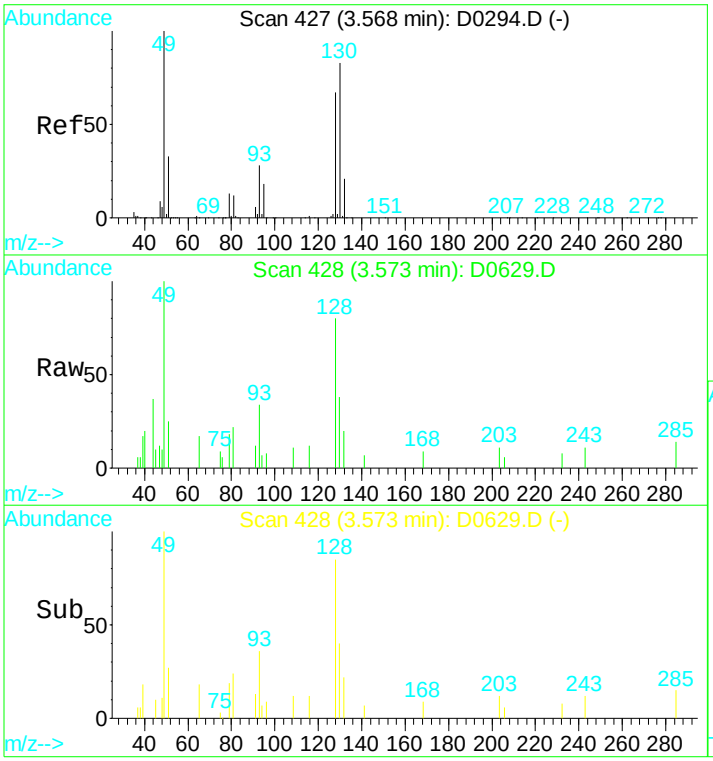


#24
Carbon Disulfide
Concen: 0.23 ug/L
RT: 2.24 min Scan# 209
Delta R.T. 0.00 min
Lab File: D0629.D
Acq: 2 Aug 2016 2:46 pm

Tgt Ion: 76 Resp: 2675

Ion	Ratio	Lower	Upper
76	100		
78	11.5	0.0	30.6
77	0.0	0.0	23.4

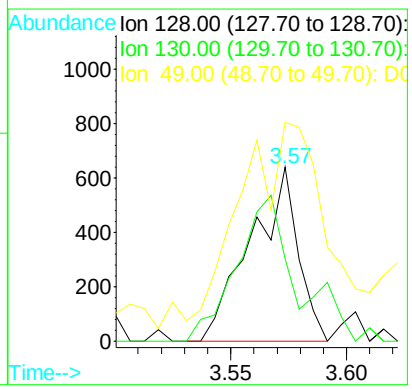




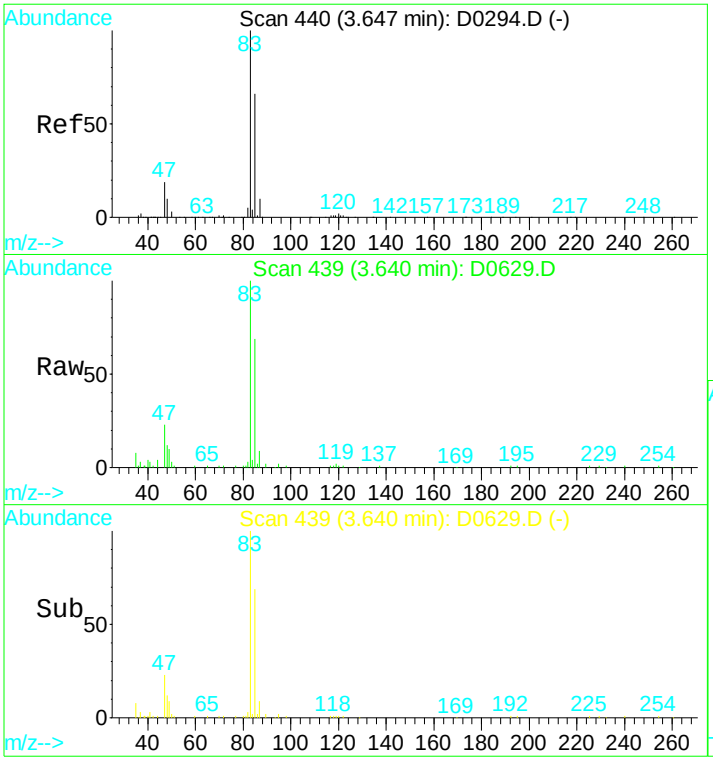
#34
Bromochloromethane
Concen: 0.56 ug/L
RT: 3.57 min Scan# 428
Delta R.T. 0.01 min
Lab File: D0629.D
Acq: 2 Aug 2016 2:46 pm

Tgt Ion:128 Resp: 911

Ion	Ratio	Lower	Upper
128	100		
130	47.4	104.3	144.3#
49	125.7	130.0	170.0#



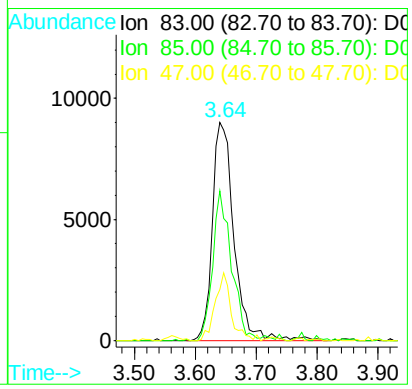
1st DL 08/03/16
2nd FJ 08/03/16

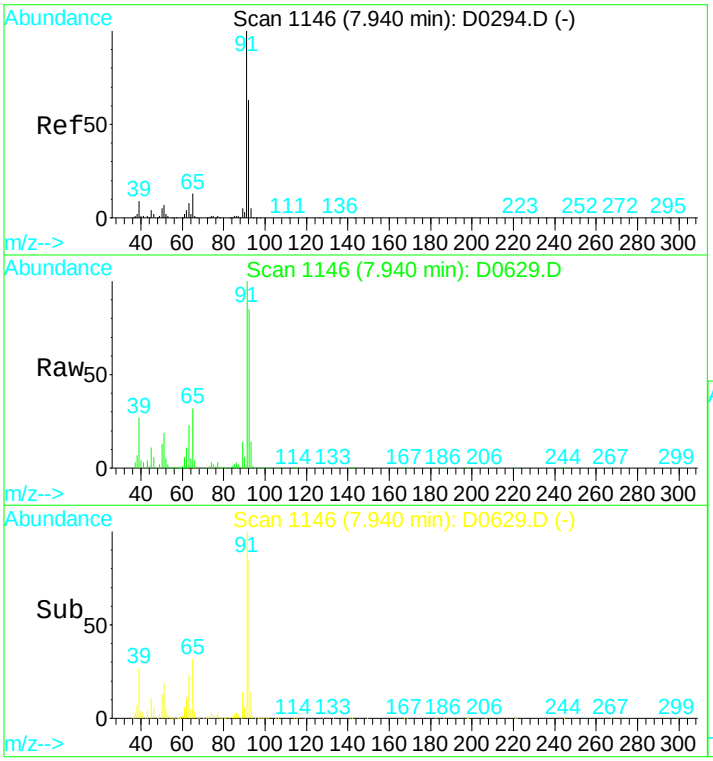


#35
Chloroform
Concen: 3.58 ug/L
RT: 3.64 min Scan# 439
Delta R.T. -0.01 min
Lab File: D0629.D
Acq: 2 Aug 2016 2:46 pm

Tgt Ion: 83 Resp: 22152

Ion	Ratio	Lower	Upper
83	100		
85	68.6	46.0	86.0
47	23.4	0.8	40.8

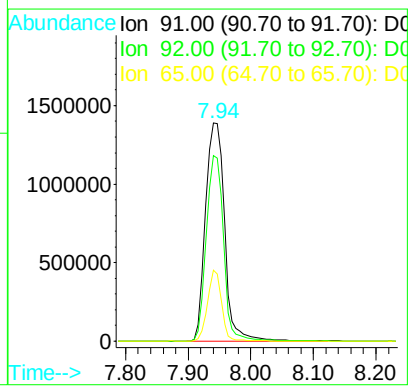




#68
Toluene
Concen: 205.59 ug/L
RT: 7.94 min Scan# 1146
Delta R.T. -0.00 min
Lab File: D0629.D
Acq: 2 Aug 2016 2:46 pm

Tgt Ion: 91 Resp: 2964760

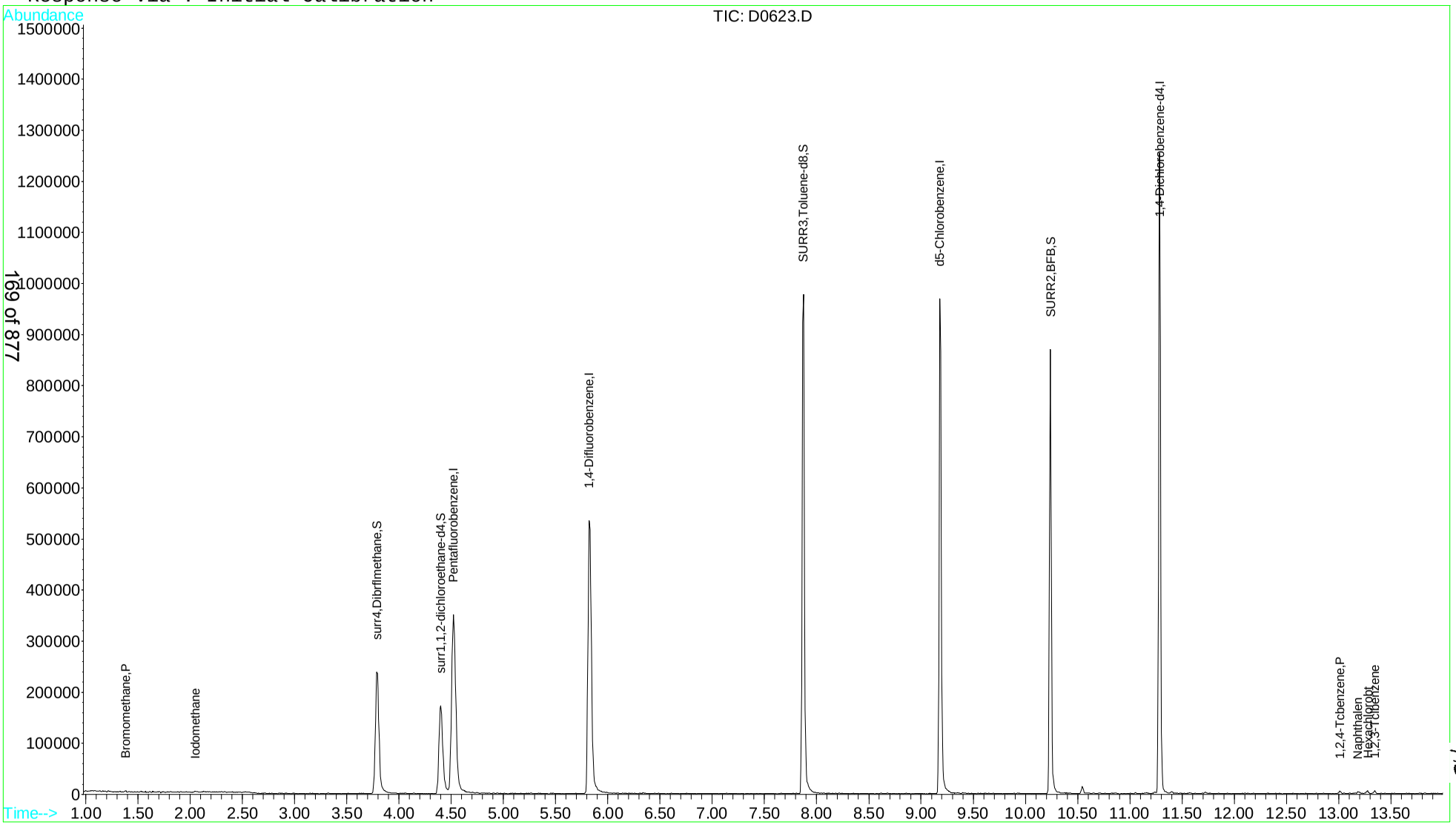
Ion	Ratio	Lower	Upper
91	100		
92	76.5	40.9	80.9
65	23.6	0.0	31.9



Quantitation Report

Data File : I:\ACQUDATA\MSVOA6\DATA\080216\D0623.D Vial: 8
Acq On : 2 Aug 2016 11:35 am Operator: D.LIPANI
Sample : MET BLK Inst : MS#6
Misc : 8260C Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Aug 3 12:56 2016 Quant Results File: W071416.RES

Method : I:\ACQUDATA\MSVOA6\METHODS\W071416.M (RTE Integrator)
Title : 8260C / 624 WATERS
Last Update : Mon Jul 18 16:21:59 2016
Response via : Initial Calibration



1st DL 08/03/16
2nd FJ 08/03/16

1st DL 08/03/16
2nd FJ 08/03/16

Quantitation Report (QT Reviewed)

Data File : I:\ACQUDATA\MSVOA6\DATA\080216\D0623.D Vial: 8
Acq On : 2 Aug 2016 11:35 am Operator: D.LIPANI
Sample : MET BLK Inst : MS#6
Misc : 8260C Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Aug 3 12:56 2016 Quant Results File: W071416.RES

Quant Method : I:\ACQUDATA\M...\W071416.M (RTE Integrator)
Title : 8260C / 624 WATERS
Last Update : Mon Jul 18 16:21:59 2016
Response via : Initial Calibration
DataAcq Meth : W071416

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.52	168	361200	50.00	ug/L	0.00
40) 1,4-Difluorobenzene	5.83	114	531219	50.00	ug/L	0.00
69) d5-Chlorobenzene	9.18	117	453381	50.00	ug/L	0.00
89) 1,4-Dichlorobenzene-d4	11.28	152	257830	50.00	ug/L	0.00

System Monitoring Compounds						
41) surr4,Dibrflmethane	3.79	113	179347	52.43	ug/L	0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 104.86%			
43) surr1,1,2-dichloroethane-d	4.40	65	162280	53.11	ug/L	0.00
Spiked Amount 50.000	Range 65 - 130		Recovery = 106.22%			
67) SURR3,Toluene-d8	7.87	98	569822	53.32	ug/L	0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 106.64%			
88) SURR2,BFB	10.24	95	220105	50.53	ug/L	0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 101.06%			

Target Compounds						Qvalue
5) Bromomethane	1.38	94	1241	0.48	ug/L #	52
17) Iodomethane	2.05	142	1069	1.17	ug/L	82
60) n-Propyl Acetate	6.69	43	76	Below Cal	#	54
107) 1,2,4-Tcbenzene	13.01	180	979	0.22	ug/L	96
108) Naphthalen	13.19	128	1837	0.26	ug/L	89
109) Hexachlorobt	13.28	225	783	0.35	ug/L	90
110) 1,2,3-Tclbenzene	13.34	180	1200	0.34	ug/L	84

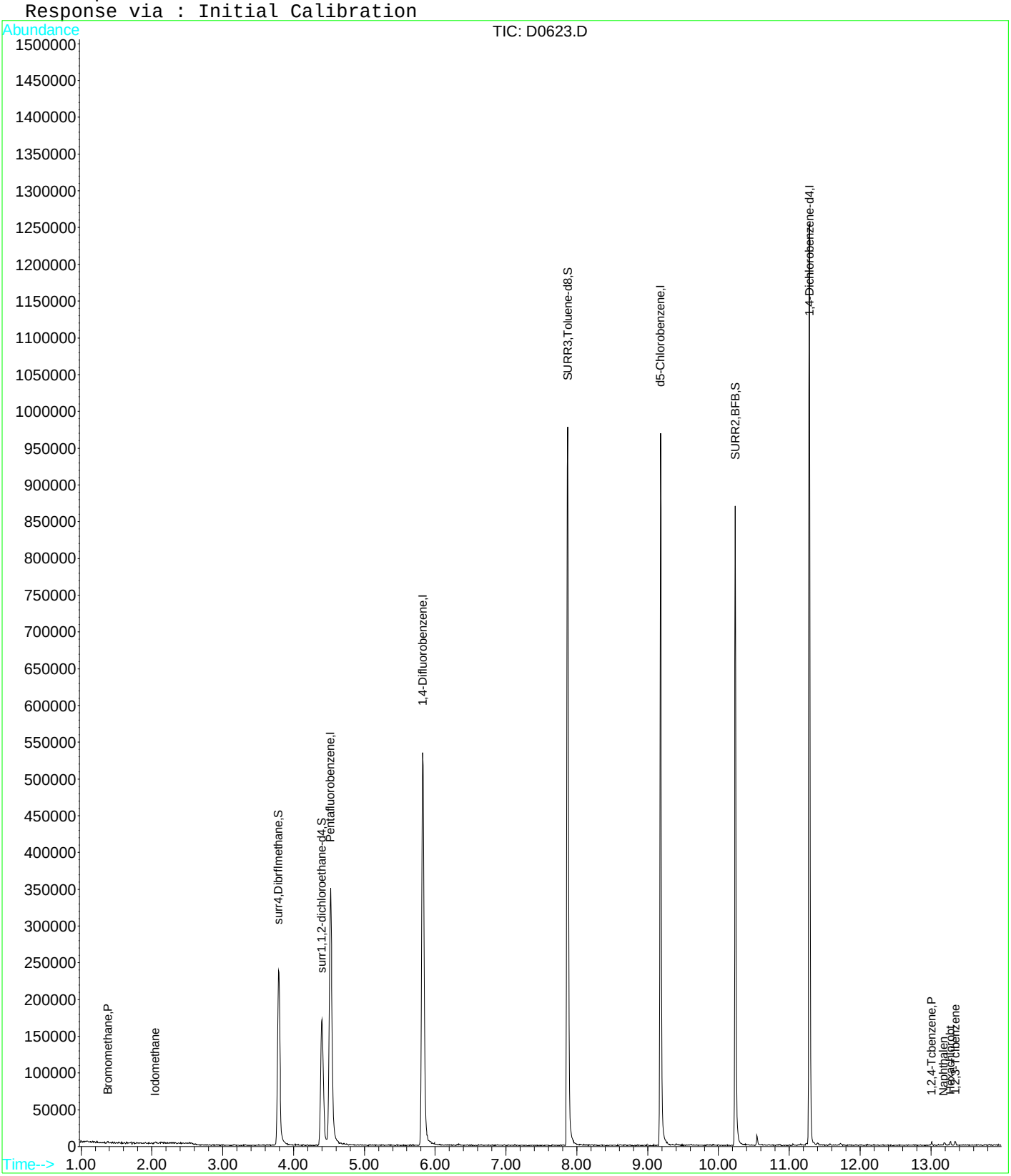
(#) = qualifier out of range (m) = manual integration

Quantitation Report

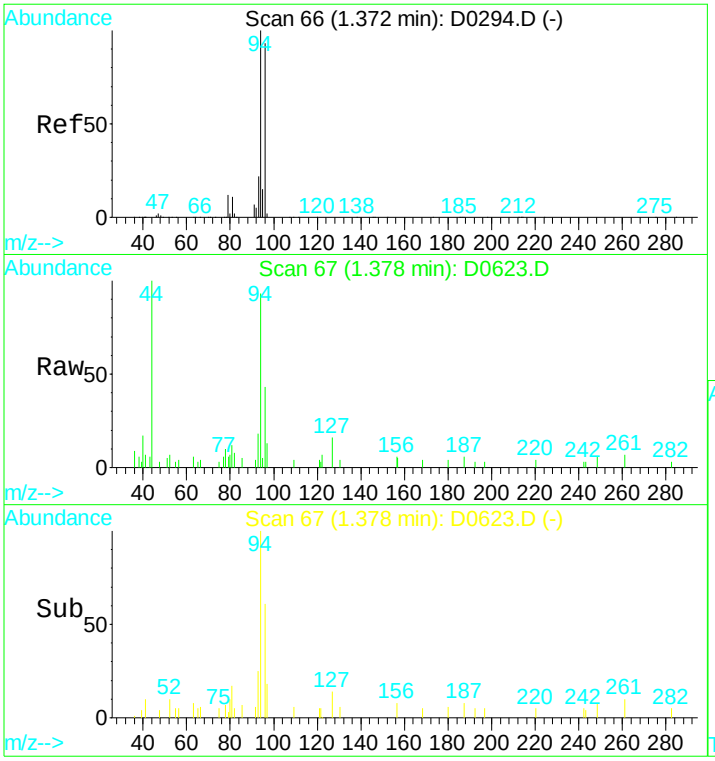
1st DL 08/03/16
2nd FN 08/03/16

Data File : I:\ACQUDATA\MSVOA6\DATA\080216\D0623.D Vial: 8
Acq On : 2 Aug 2016 11:35 am Operator: D.LIPANI
Sample : MET BLK Inst : MS#6
Misc : 8260C Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Aug 3 12:56 2016 Quant Results File: W071416.RES

Method : I:\ACQUDATA\MSVOA6\METHODS\W071416.M (RTE Integrator)
Title : 8260C / 624 WATERS
Last Update : Mon Jul 18 16:21:59 2016
Response via : Initial Calibration



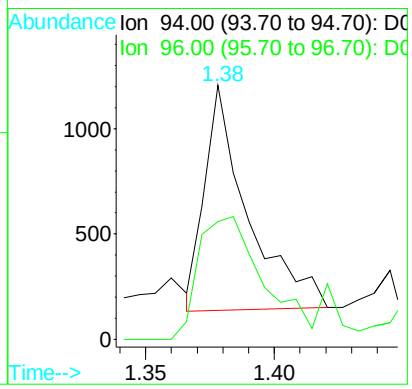
1st DL 08/03/16
2nd FJ 08/03/16

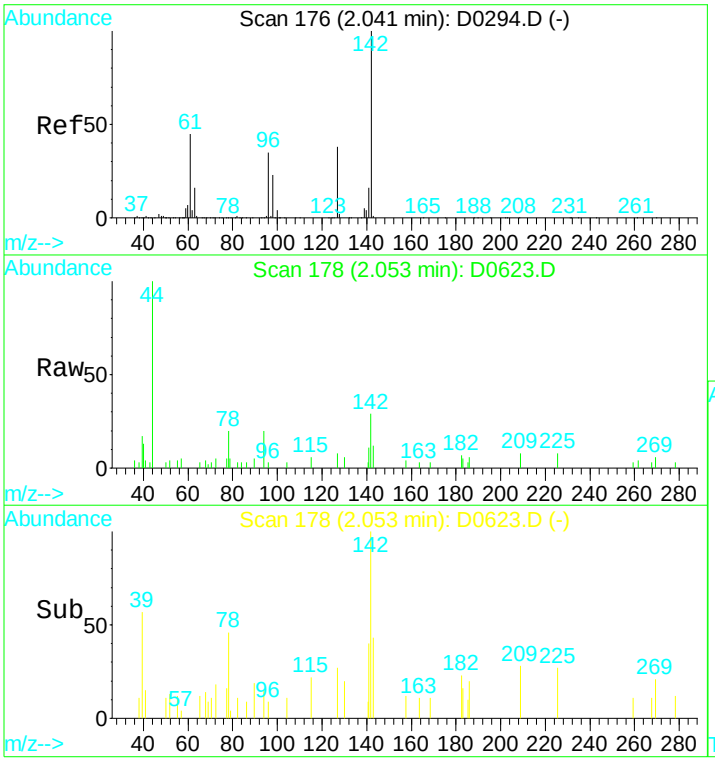


#5
Bromomethane
Concen: 0.48 ug/L
RT: 1.38 min Scan# 67
Delta R.T. 0.01 min
Lab File: D0623.D
Acq: 2 Aug 2016 11:35 am

Tgt Ion: 94 Resp: 1241

Ion	Ratio	Lower	Upper
94	100		
96	46.3	72.6	112.6#

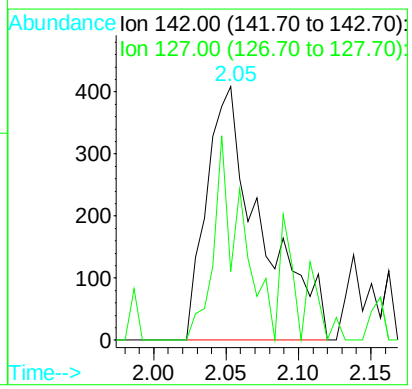




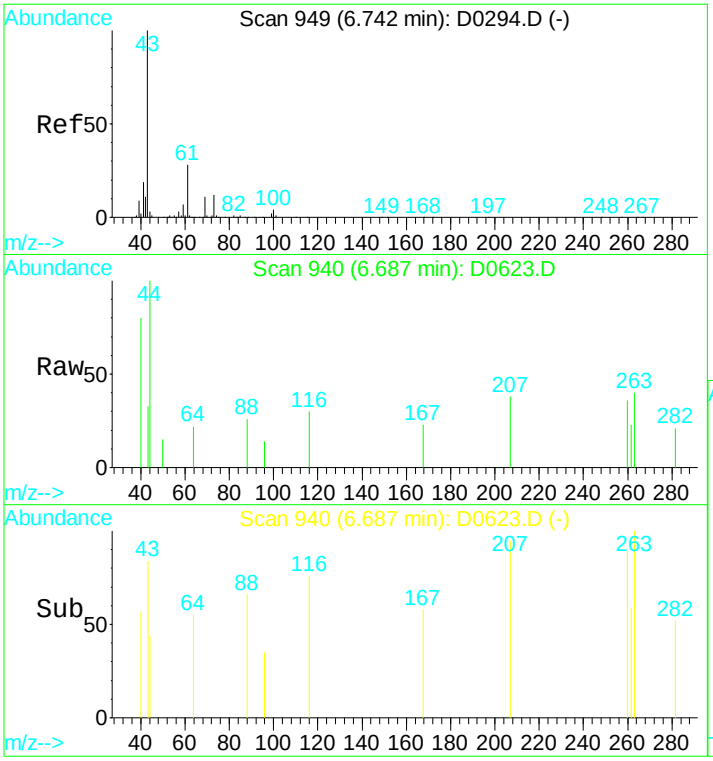
#17
Iodomethane
Concen: 1.17 ug/L
RT: 2.05 min Scan# 178
Delta R.T. 0.01 min
Lab File: D0623.D
Acq: 2 Aug 2016 11:35 am

Tgt Ion:142 Resp: 1069

Ion	Ratio	Lower	Upper
142	100		
127	27.1	17.9	57.9



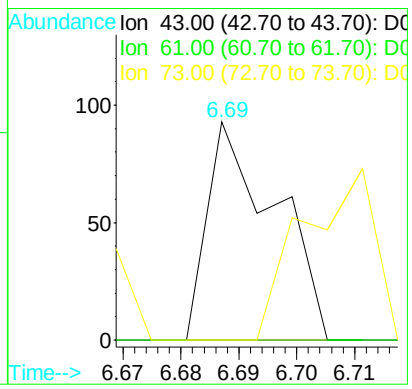
1st DL 08/03/16
2nd FJ 08/03/16

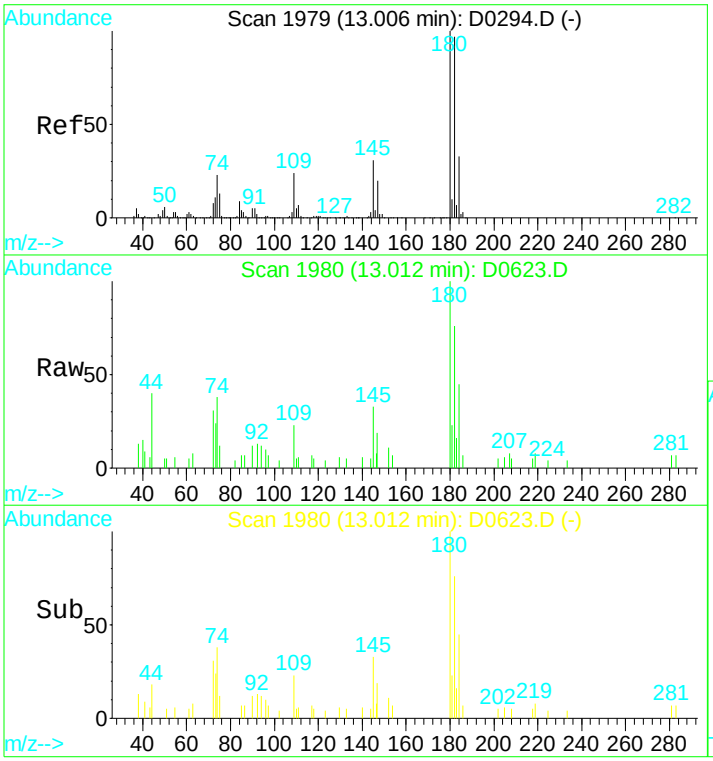


#60
n-Propyl Acetate
Concen: Below Cal
RT: 6.69 min Scan# 940
Delta R.T. -0.05 min
Lab File: D0623.D
Acq: 2 Aug 2016 11:35 am

Tgt Ion: 43 Resp: 76

Ion	Ratio	Lower	Upper
43	100		
61	0.0	7.8	47.8#
73	0.0	0.0	31.7

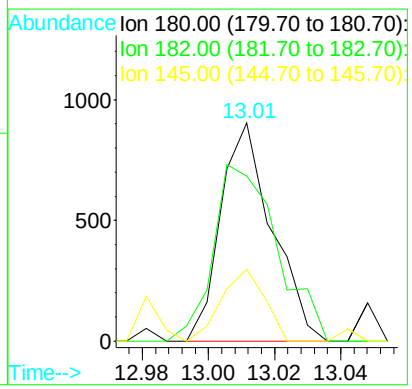




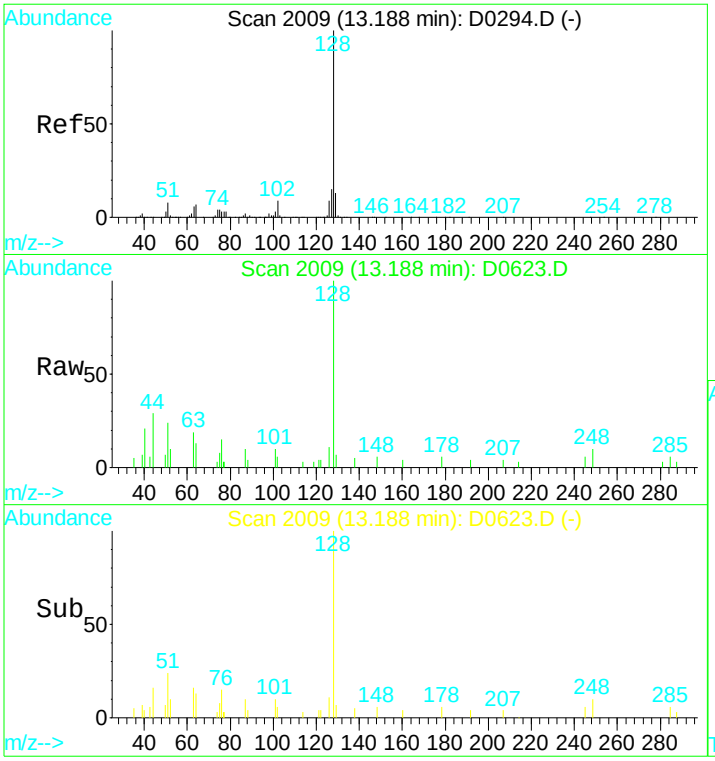
#107
1,2,4-Tcbenzene
Concen: 0.22 ug/L
RT: 13.01 min Scan# 1980
Delta R.T. 0.01 min
Lab File: D0623.D
Acq: 2 Aug 2016 11:35 am

Tgt Ion:180 Resp: 979

Ion	Ratio	Lower	Upper
180	100		
182	100.3	75.6	115.6
145	27.6	9.0	49.0



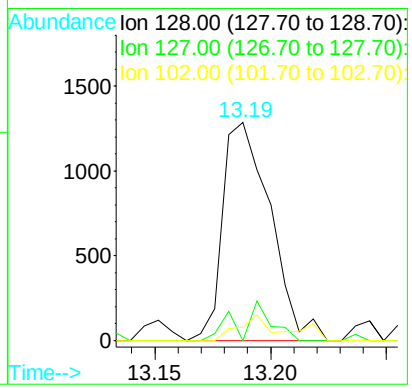
1st DL 08/03/16
2nd FJ 08/03/16

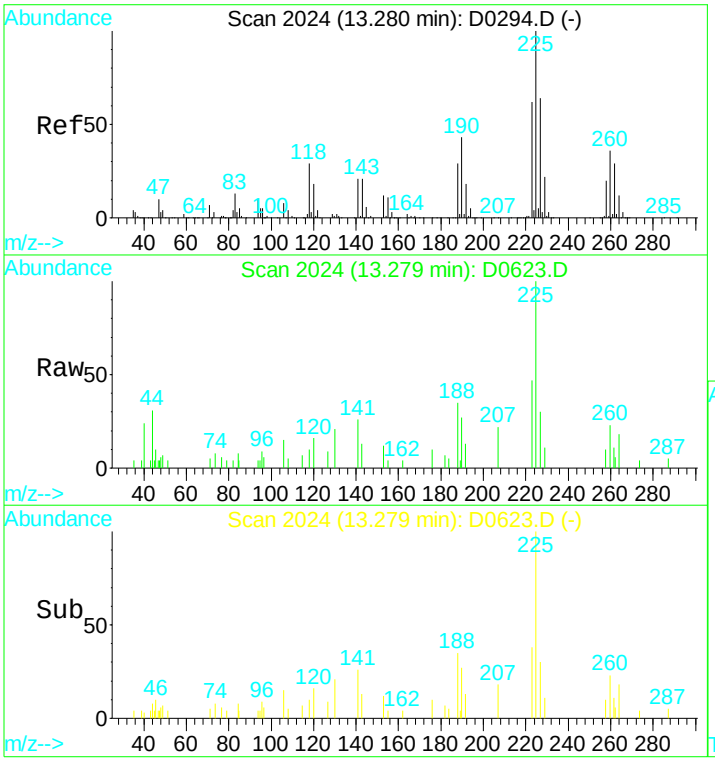


#108
Naphthalen
Concen: 0.26 ug/L
RT: 13.19 min Scan# 2009
Delta R.T. 0.00 min
Lab File: D0623.D
Acq: 2 Aug 2016 11:35 am

Tgt Ion:128 Resp: 1837

Ion	Ratio	Lower	Upper
128	100		
127	7.8	0.0	34.2
102	6.9	0.0	28.1

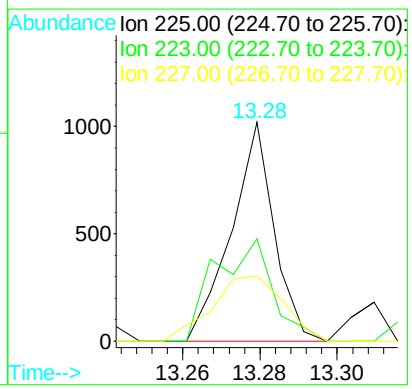




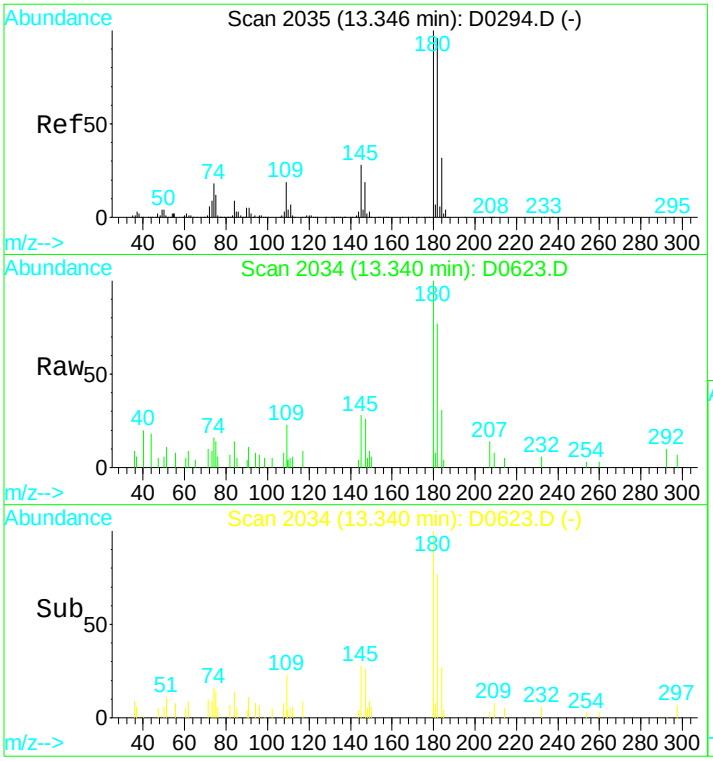
#109
Hexachlorobt
Concen: 0.35 ug/L
RT: 13.28 min Scan# 2024
Delta R.T. -0.00 min
Lab File: D0623.D
Acq: 2 Aug 2016 11:35 am

Tgt Ion:225 Resp: 783

Ion	Ratio	Lower	Upper
225	100		
223	63.0	42.1	82.1
227	49.8	44.7	84.7



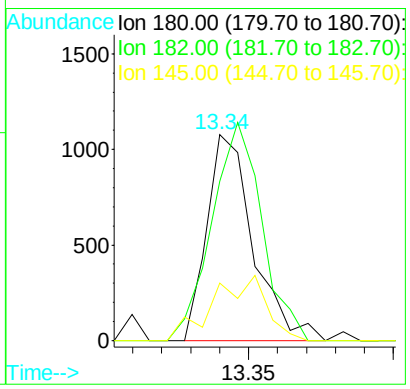
1st DL 08/03/16
2nd FJ 08/03/16



#110
1,2,3-Tclbenzene
Concen: 0.34 ug/L
RT: 13.34 min Scan# 2034
Delta R.T. -0.01 min
Lab File: D0623.D
Acq: 2 Aug 2016 11:35 am

Tgt Ion:180 Resp: 1200

Ion	Ratio	Lower	Upper
180	100		
182	114.3	77.1	117.1
145	36.4	9.7	49.7

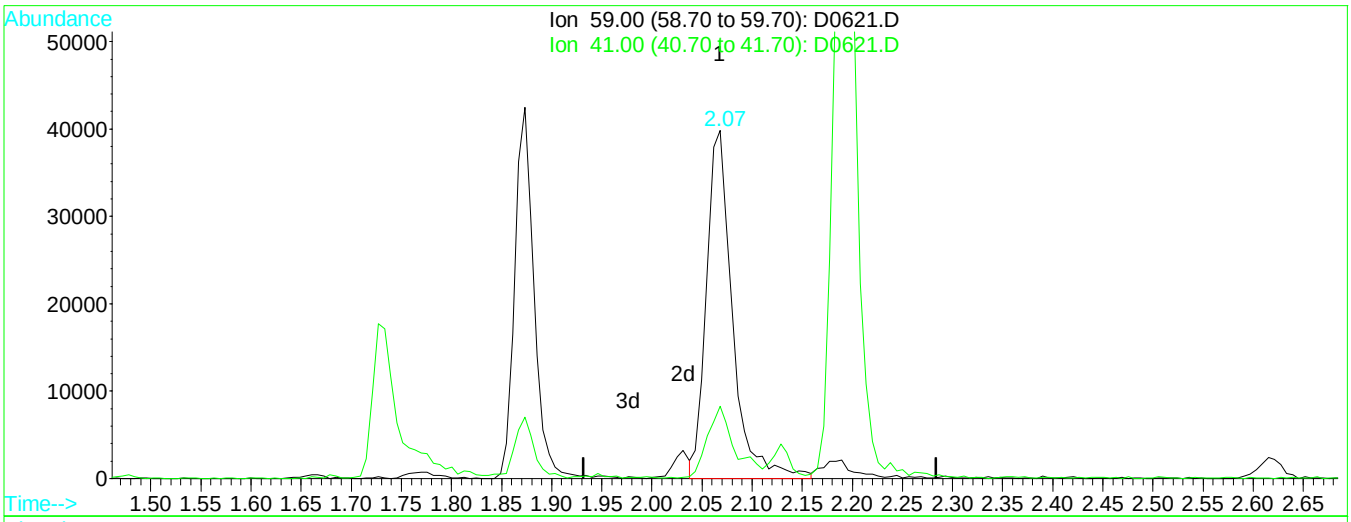


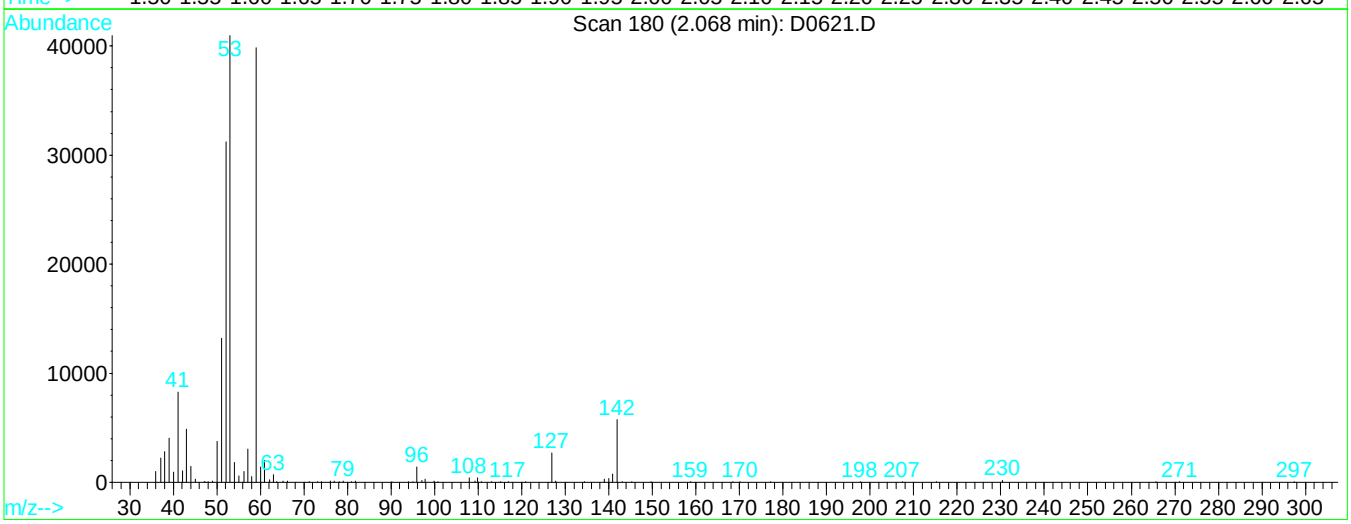
Quantitation Report (Qedit)

1st DL 08/03/16
2nd FN 08/03/16

Data File : I:\ACQUDATA\MSVOA6\DATA\080216\D0621.D Vial: 6
Acq On : 2 Aug 2016 10:32 am Operator: D.LIPANI
Sample : LCS Inst : MS#6
Misc : 8260C Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Aug 2 11:14 2016 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA6\METHODS\W071416.M (RTE Integrator)
Title : 8260C / 624 WATERS
Last Update : Mon Jul 18 16:21:59 2016
Response via : Multiple Level Calibration





TIC: D0621.D

(18) TBA

2.07min 435.12ug/L m

response 71505

Ion	Exp%	Act%
59.00	100	100
41.00	19.80	20.81
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

Poor integration.

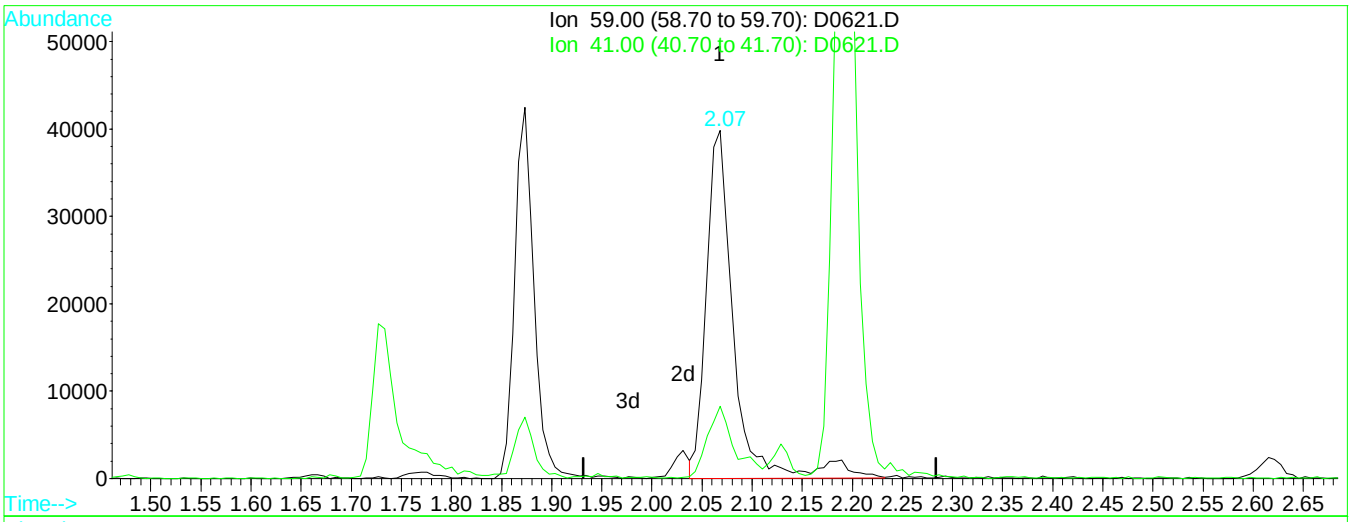
08/02/16

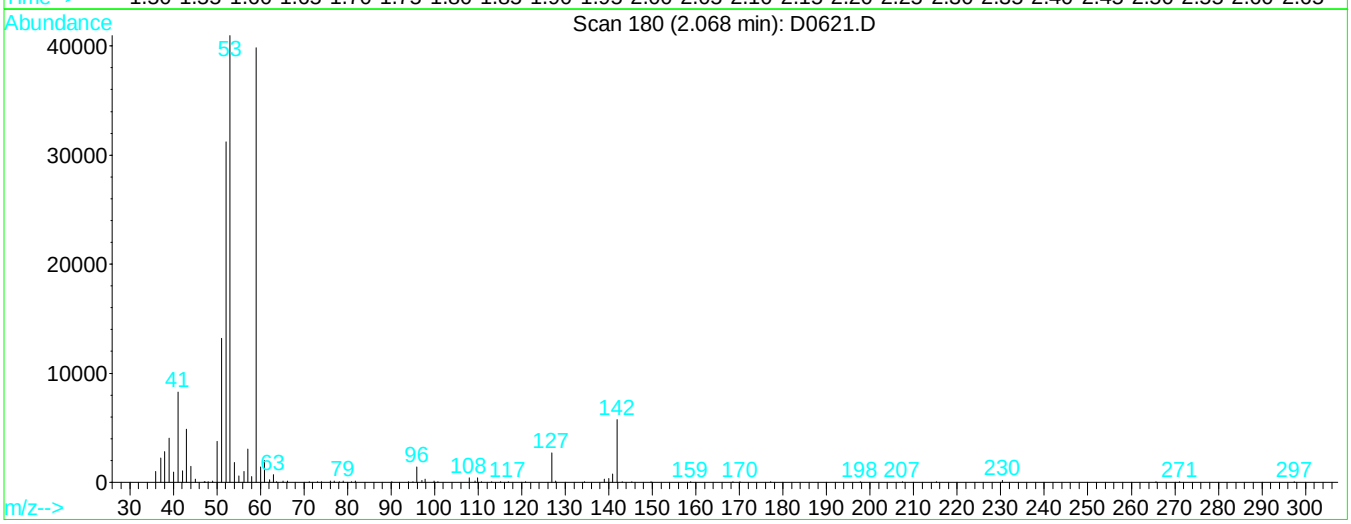
Quantitation Report (Qedit)

1st DL 08/03/16
2nd FJ 08/03/16

Data File : I:\ACQUDATA\MSVOA6\DATA\080216\D0621.D Vial: 6
Acq On : 2 Aug 2016 10:32 am Operator: D.LIPANI
Sample : LCS Inst : MS#6
Misc : 8260C Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Aug 2 10:50 2016 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA6\METHODS\W071416.M (RTE Integrator)
Title : 8260C / 624 WATERS
Last Update : Mon Jul 18 16:21:59 2016
Response via : Multiple Level Calibration





TIC: D0621.D

(18) TBA

2.07min 459.45ug/L

response 75503

Ion	Exp%	Act%
59.00	100	100
41.00	19.80	20.81
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

Before

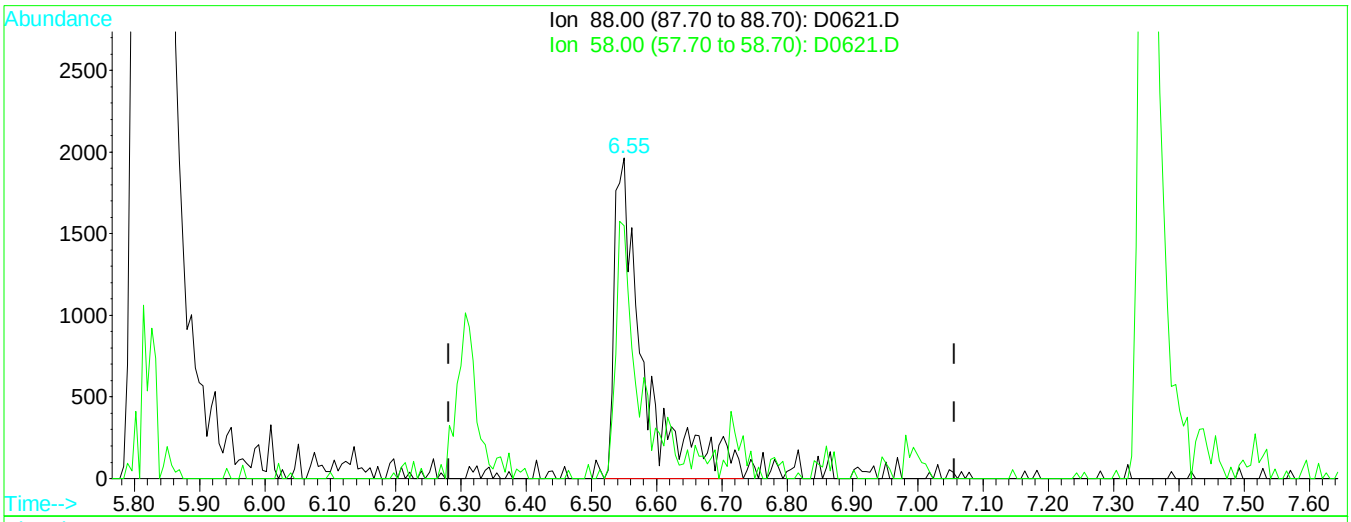
08/02/16

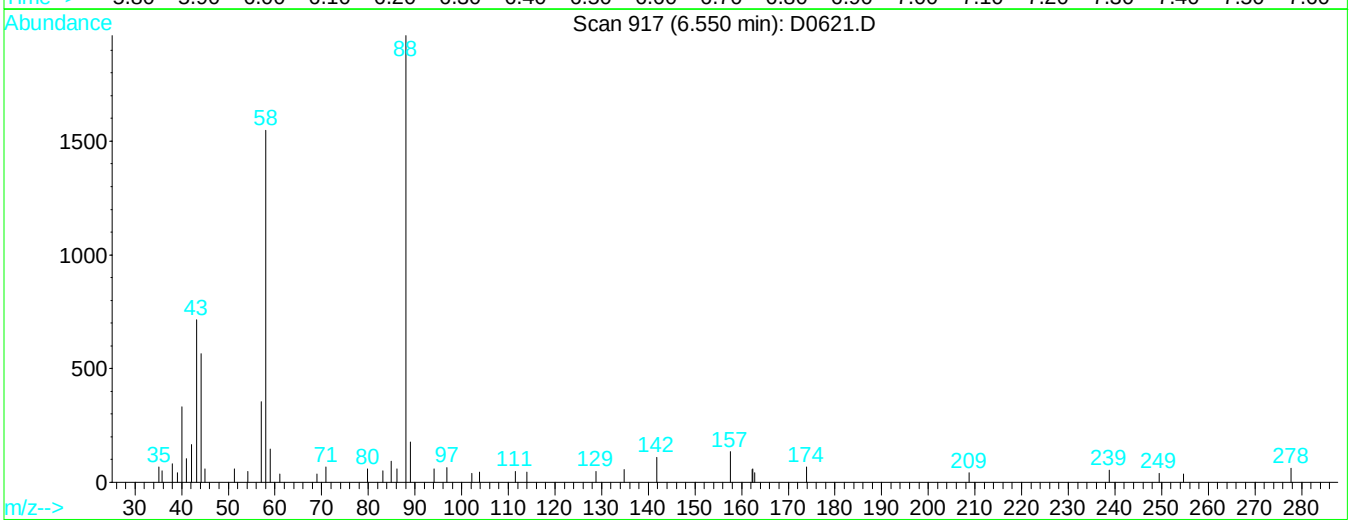
Quantitation Report (Qedit)

1st DL 08/03/16
2nd FJ 08/03/16

Data File : I:\ACQUDATA\MSVOA6\DATA\080216\D0621.D Vial: 6
Acq On : 2 Aug 2016 10:32 am Operator: D.LIPANI
Sample : LCS Inst : MS#6
Misc : 8260C Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Aug 2 11:15 2016 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA6\METHODS\W071416.M (RTE Integrator)
Title : 8260C / 624 WATERS
Last Update : Mon Jul 18 16:21:59 2016
Response via : Single Level Calibration





TIC: D0621.D

(57) 1,4-Dioxane

6.55min 372.90ug/L m

response 6284

Ion	Exp%	Act%
88.00	100	100
58.00	66.60	78.82
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

Split Peak.

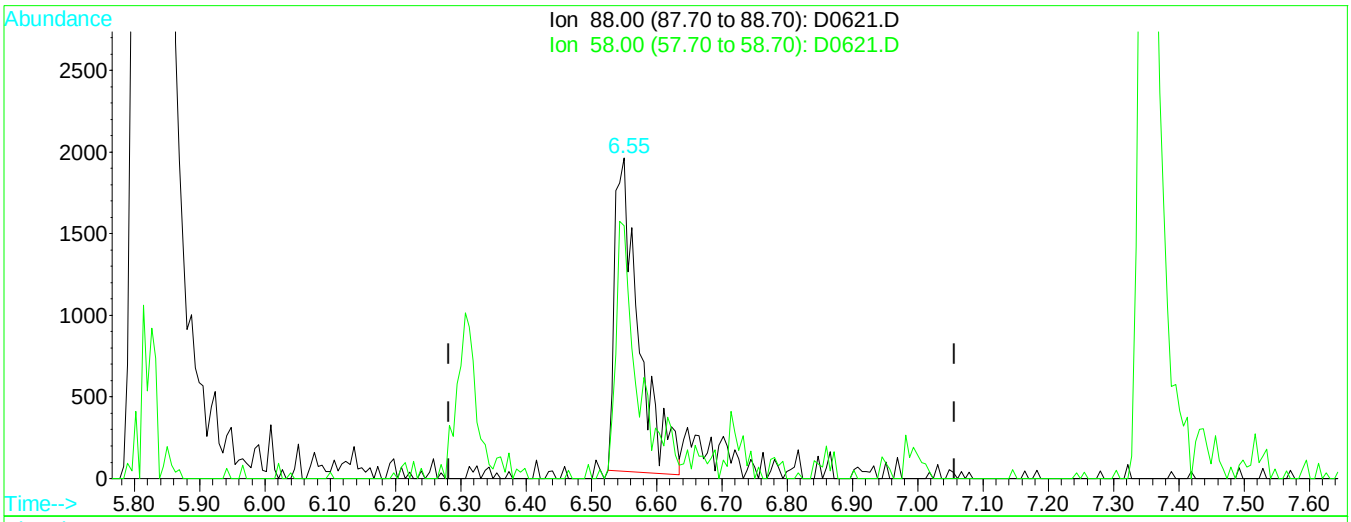
08/02/16

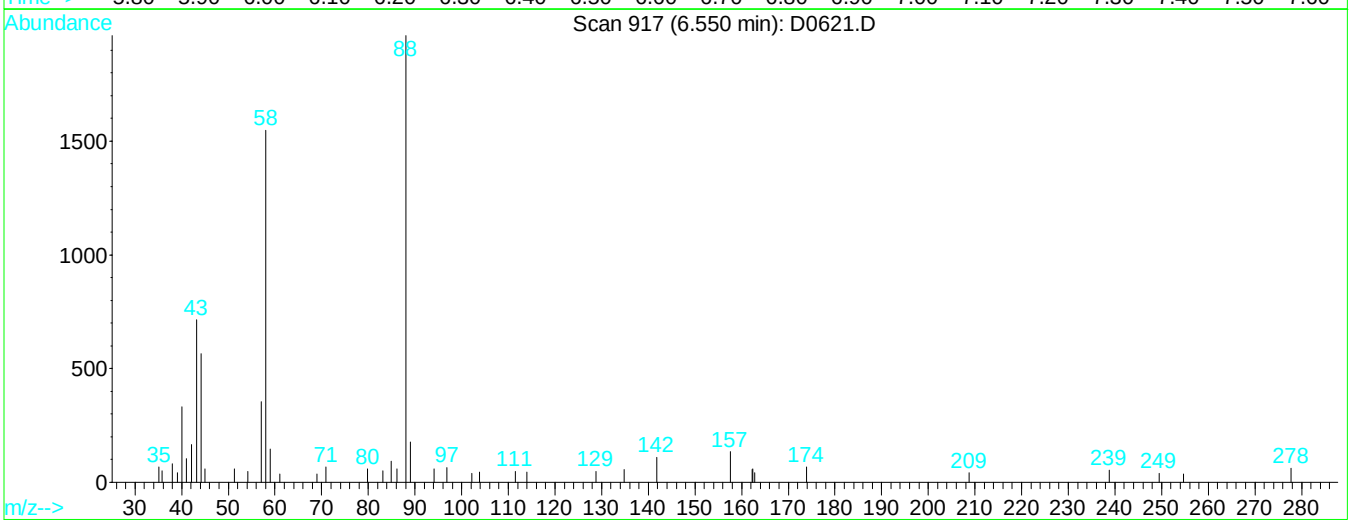
Quantitation Report (Qedit)

1st DL 08/03/16
2nd FJ 08/03/16

Data File : I:\ACQUDATA\MSVOA6\DATA\080216\D0621.D Vial: 6
Acq On : 2 Aug 2016 10:32 am Operator: D.LIPANI
Sample : LCS Inst : MS#6
Misc : 8260C Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Aug 2 11:14 2016 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA6\METHODS\W071416.M (RTE Integrator)
Title : 8260C / 624 WATERS
Last Update : Mon Jul 18 16:21:59 2016
Response via : Single Level Calibration





TIC: D0621.D

(57) 1,4-Dioxane

6.55min 294.21ug/L

response 4958

Ion	Exp%	Act%
88.00	100	100
58.00	66.60	78.82
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

Before

08/02/16

1st DL 08/03/16
2nd FJ 08/03/16

Quantitation Report (QT Reviewed)

Data File : I:\ACQUDATA\MSVOA6\DATA\080216\D0621.D Vial: 6
Acq On : 2 Aug 2016 10:32 am Operator: D.LIPANI
Sample : LCS Inst : MS#6
Misc : 8260C Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Aug 2 11:16 2016 Quant Results File: W071416.RES

Quant Method : I:\ACQUDATA\M...\W071416.M (RTE Integrator)
Title : 8260C / 624 WATERS
Last Update : Mon Jul 18 16:21:59 2016
Response via : Initial Calibration
DataAcq Meth : W071416

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.52	168	390071	50.00	ug/L	0.00
40) 1,4-Difluorobenzene	5.83	114	586070	50.00	ug/L	0.00
69) d5-Chlorobenzene	9.18	117	485087	50.00	ug/L	0.00
89) 1,4-Dichlorobenzene-d4	11.28	152	270456	50.00	ug/L	0.00
System Monitoring Compounds						
41) surr4,Dibrflmethane	3.79	113	197775	52.41	ug/L	0.00
Spiked Amount 50.000 Range 89 - 119 Recovery = 104.82%						
43) surr1,1,2-dichloroethane-d	4.40	65	176578	52.38	ug/L	0.00
Spiked Amount 50.000 Range 65 - 130 Recovery = 104.76%						
67) SURR3,Toluene-d8	7.87	98	632732	53.67	ug/L	0.00
Spiked Amount 50.000 Range 87 - 121 Recovery = 107.34%						
88) SURR2,BFB	10.24	95	228122	48.95	ug/L	0.00
Spiked Amount 50.000 Range 85 - 122 Recovery = 97.90%						

Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.05	85	104202	18.62	ug/L	97
3) Chloromethane	1.13	50	115127	20.12	ug/L	99
4) Vinyl Chloride	1.20	62	130037	19.69	ug/L	99
5) Bromomethane	1.37	94	68656	24.42	ug/L	97
6) Chloroethane	1.44	64	63092	19.70	ug/L	99
7) Freon 21	1.47	67	152439	21.48	ug/L	97
8) Freon 123	1.65	83	127074	21.40	ug/L	98
9) Freon 123a	1.67	67	113838	23.97	ug/L	99
10) Acrolein	1.72	56	11487	31.44	ug/L	96
11) Trichlorofluoromethane	1.73	101	123162	20.91	ug/L	100
12) Acetonitrile	1.73	41	26638	102.74	ug/L	94
13) 2-Propanol	1.76	45	42824	403.95	ug/L	98
14) Acetone	1.79	43	11379	20.85	ug/L	87
15) Diethyl Ether	1.87	59	57334	22.23	ug/L	98
16) 1,1-Diclethene	2.03	96	75221	19.90	ug/L #	87
17) Iodomethane	2.04	142	99987	21.95	ug/L	98
18) TBA	2.07	59	71505m	435.12	ug/L	
19) Acrylonitrile	2.07	53	89893	108.80	ug/L	95
20) Methylene Chloride	2.13	84	82991	20.23	ug/L	99
21) Freon 113	2.18	101	78319	19.83	ug/L	94
22) Methyl Acetate	2.18	43	36365	21.14	ug/L	98
23) Allyl Chloride	2.20	76	42982	19.29	ug/L	96
24) Carbon Disulfide	2.24	76	256037	20.32	ug/L	98
25) trans-1,2-Dichloroethene	2.62	96	80866	20.28	ug/L	96
26) Methyl-t-Butyl Ether	2.74	73	165397	22.27	ug/L	98
27) 1,1-Diclethane	2.82	63	144157	23.17	ug/L	96
28) Propionitrile	2.85	54	28087	108.06	ug/L	94
29) Vinyl Acetate	3.02	43	114430	21.61	ug/L	94
30) 2-Chloro-1,3-Butadiene	3.19	53	115819	20.86	ug/L	96
31) 2-Butanone	3.30	43	17224	19.41	ug/L	95
32) Methacrylonitrile	3.38	67	19718	22.36	ug/L	93
33) cis-1,2-Dichloroethene	3.40	96	84875	20.85	ug/L	100
34) Bromochloromethane	3.56	128	38050	21.62	ug/L	88
35) Chloroform	3.64	83	141757	21.24	ug/L	96
36) 2,2-Dichloropropane	3.72	77	111940	20.58	ug/L	98
38) Tetrahydrofuran	4.07	42	11115	18.97	ug/L	86
39) 1,1,1-Trichloroethane	4.65	97	111746	20.92	ug/L	92
42) Iso-Butyl Alcohol	3.89	43	30197	393.88	ug/L	88
44) 1,2-Dichloroethane	4.52	64	27180	21.13	ug/L	92

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

Quantitation Report (QT Reviewed)

1st DL 08/03/16
2nd FJ 08/03/16

Data File : I:\ACQUDATA\MSVOA6\DATA\080216\D0621.D Vial: 6
Acq On : 2 Aug 2016 10:32 am Operator: D.LIPANI
Sample : LCS Inst : MS#6
Misc : 8260C Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Aug 2 11:16 2016 Quant Results File: W071416.RES

Quant Method : I:\ACQUDATA\M...\W071416.M (RTE Integrator)
Title : 8260C / 624 WATERS
Last Update : Mon Jul 18 16:21:59 2016
Response via : Initial Calibration
DataAcq Meth : W071416

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
46)	1,1-Dichloropropene	5.01	75	100218	19.86 ug/L	93
47)	Cyclohexane	5.10	56	120724	20.27 ug/L	95
48)	Carbontetrachloride	5.24	119	96891	20.08 ug/L	97
49)	Benzene	5.33	78	300655	20.46 ug/L	99
51)	Dibromomethane	6.12	93	37825	20.78 ug/L	93
52)	1,2-Diclpropane	6.20	63	79984	21.18 ug/L	95
53)	n-Heptane	6.31	43	87007	19.58 ug/L	97
54)	Trichloroethene	6.28	130	81370	20.98 ug/L	99
55)	Bromodichloromethane	6.32	83	98158	20.50 ug/L	100
56)	2-Nitropropane	6.36	41	17032	38.63 ug/L	92
57)	1,4-Dioxane	6.55	88	6284m	372.90 ug/L	
59)	Methyl Methacrylate	6.72	69	30254	20.04 ug/L #	82
60)	n-Propyl Acetate	6.75	43	126	Below Cal	68
61)	Methylcyclohexane	6.87	55	87924	20.42 ug/L	96
62)	2-Chloroethylvinyl Ether	6.99	63	34934	20.64 ug/L	95
63)	cis-1,3-Dichloropropene	7.15	75	110134	20.60 ug/L	98
64)	4-Methyl-2-pentanone	7.35	43	35024	18.89 ug/L	94
65)	trans-1,3-Dichloropropene	7.64	75	87156	20.50 ug/L	99
66)	1,1,2-Trichloroethane	7.75	97	51026	20.50 ug/L	98
68)	Toluene	7.94	91	291858	19.22 ug/L	97
70)	1,3-Dichloropropane	8.00	76	82752	21.52 ug/L	96
71)	Ethyl Methacrylate	8.18	69	61978	21.38 ug/L	96
72)	Dibromochloromethane	8.19	129	60261	19.74 ug/L	94
73)	2-Hexanone	8.25	43	25067	19.35 ug/L	88
74)	1,2-Dibromoethane	8.41	107	50499	19.87 ug/L	100
75)	n-Butyl Acetate	8.62	43	64244	19.86 ug/L	97
76)	Tetrachloroethene	8.61	164	60541	19.02 ug/L	96
77)	1,1,1,2-Tetrachloroethane	9.15	131	68253	21.04 ug/L	97
78)	Chlorobenzene	9.21	112	184147	19.69 ug/L	99
79)	Ethylbenzene	9.43	106	99742	19.65 ug/L #	87
80)	Bromoform	9.60	173	33792	19.97 ug/L	99
81)	(m+p)Xylene	9.61	106	237534	39.73 ug/L	92
82)	o-Xylene	9.92	106	119762	20.69 ug/L	98
83)	Cyclohexanone	9.83	55	26132	474.70 ug/L	93
84)	Styrene	9.86	104	184881	20.10 ug/L	96
86)	trans-1,4-Dichloro-2-Buten	10.10	75	13521	14.03 ug/L	96
87)	Isopropylbenzene	10.24	105	285982	18.75 ug/L	96
90)	1,1,2,2-Tetrachloroethane	9.91	83	55469	20.18 ug/L	98
91)	1,2,3-Trichloropropane	10.03	75	38363	20.41 ug/L	99
92)	Bromobenzene	10.37	156	85696	19.66 ug/L	97
93)	n-Propylbenzene	10.60	91	347136	20.60 ug/L	96
94)	2-Chlorotoluene	10.64	91	215921	20.96 ug/L	96
95)	4-Chlorotoluene	10.71	91	221511	20.46 ug/L	98
96)	1,3,5-Trimethylbenzene	10.86	105	244383	20.61 ug/L	98
97)	tert-Butylbenzene	11.06	119	200210	20.41 ug/L	97
98)	1,2,4-Trimethylbenzene	11.16	105	252791	20.60 ug/L	96
99)	sec-Butylbenzene	11.23	105	288787	20.27 ug/L	96
100)	1,3-Dclbenz	11.24	146	157286	20.04 ug/L	98
101)	1,4-Dclbenz	11.31	146	162130	20.25 ug/L	99
102)	p-Isopropyltoluene	11.40	119	249156	20.22 ug/L	96
103)	1,2-Dclbenz	11.57	146	152775	21.09 ug/L	97
104)	n-Butylbenzene	11.72	91	233500	20.74 ug/L	96
105)	1,2-Dibromo-3-chloropropan	11.94	75	8529	20.10 ug/L	91
106)	Nitrobenzene	12.11	77	2750	37.14 ug/L	98

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

Quantitation Report (QT Reviewed)

1st DL 08/03/16
2nd FJ 08/03/16

Data File : I:\ACQUDATA\MSVOA6\DATA\080216\D0621.D Vial: 6
Acq On : 2 Aug 2016 10:32 am Operator: D.LIPANI
Sample : LCS Inst : MS#6
Misc : 8260C Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Aug 2 11:16 2016 Quant Results File: W071416.RES

Quant Method : I:\ACQUDATA\M...\W071416.M (RTE Integrator)
Title : 8260C / 624 WATERS
Last Update : Mon Jul 18 16:21:59 2016
Response via : Initial Calibration
DataAcq Meth : W071416

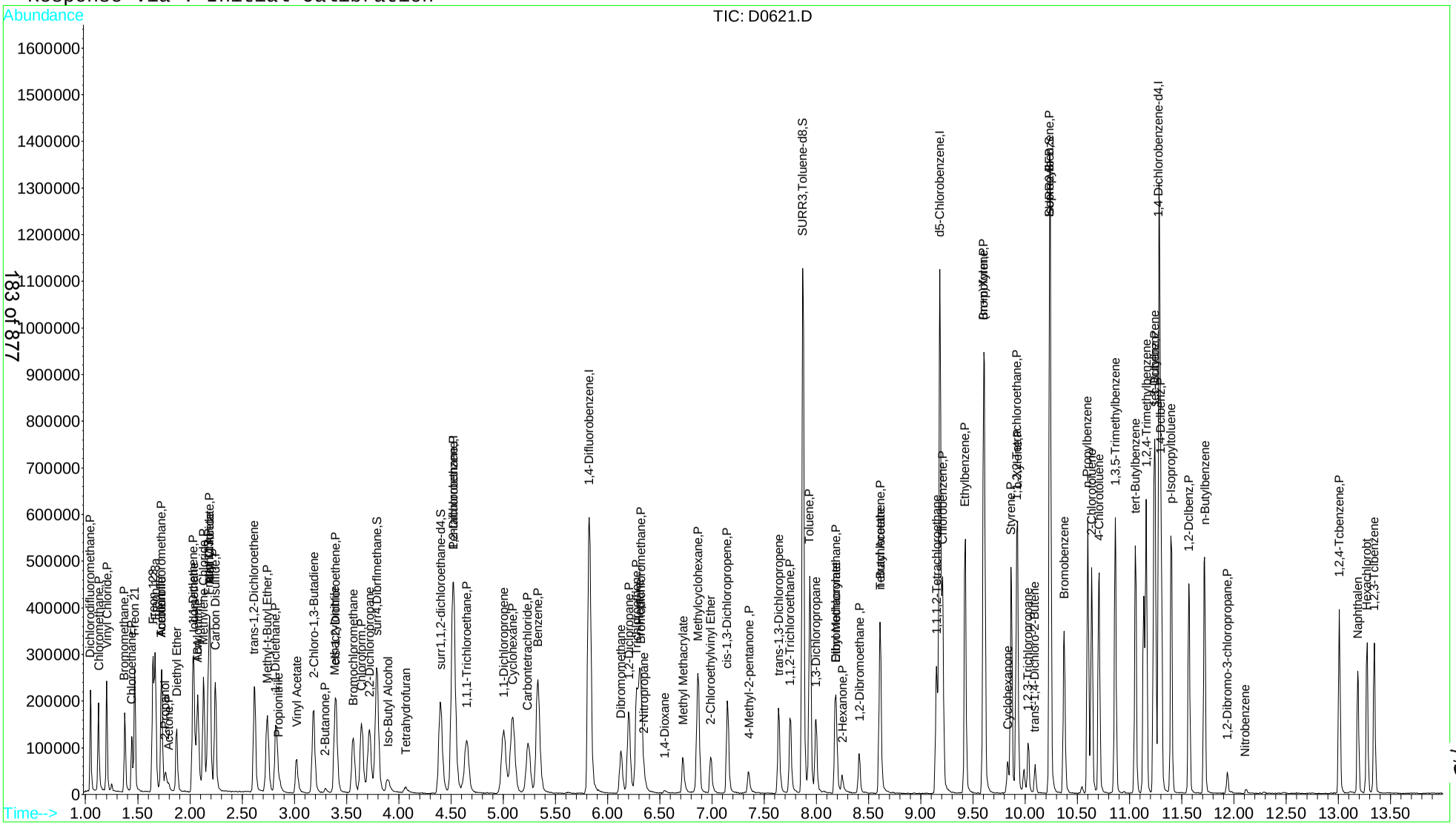
Compound	R.T.	QIon	Response	Conc Unit	Qvalue
107) 1,2,4-Tcbenzene	13.01	180	98586	20.72 ug/L	98
108) Naphthalen	13.18	128	162690	21.57 ug/L	98
109) Hexachlorobt	13.28	225	50201	21.50 ug/L	98
110) 1,2,3-Tclbenzene	13.34	180	80730	22.04 ug/L	100

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

Quantitation Report

Data File : I:\ACQUDATA\MSVOA6\DATA\080216\D0621.D Vial: 6
Acq On : 2 Aug 2016 10:32 am Operator: D.LIPANI
Sample : LCS Inst : MS#6
Misc : 8260C Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Aug 2 11:16 2016 Quant Results File: W071416.RES

Method : I:\ACQUDATA\MSVOA6\METHODS\W071416.M (RTE Integrator)
Title : 8260C / 624 WATERS
Last Update : Mon Jul 18 16:21:59 2016
Response via : Initial Calibration



1st DL 08/03/16
2nd FJ 08/03/16

1st DL 08/03/16
2nd FJ 08/03/16

Quantitation Report (QT Reviewed)

Data File : I:\ACQUDATA\MSVOA6\DATA\080216\D0637.D Vial: 22
Acq On : 2 Aug 2016 7:13 pm Operator: D.LIPANI
Sample : R1607963-013MS|1.0 Inst : MS#6
Misc : ALS-Canada 8260C 15945 T4 Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Aug 3 14:03 2016 Quant Results File: W071416.RES

Quant Method : I:\ACQUDATA\M...\W071416.M (RTE Integrator)
Title : 8260C / 624 WATERS
Last Update : Mon Jul 18 16:21:59 2016
Response via : Initial Calibration
DataAcq Meth : W071416

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.52	168	380170	50.00	ug/L	0.00
40) 1,4-Difluorobenzene	5.82	114	543231	50.00	ug/L	0.00
69) d5-Chlorobenzene	9.18	117	469231	50.00	ug/L	0.00
89) 1,4-Dichlorobenzene-d4	11.28	152	272401	50.00	ug/L	0.00
System Monitoring Compounds						
41) surr4,Dibrflmethane	3.79	113	186739	53.38	ug/L	0.00
Spiked Amount 50.000 Range 89 - 119 Recovery = 106.76%						
43) surr1,1,2-dichloroethane-d	4.40	65	165324	52.91	ug/L	0.00
Spiked Amount 50.000 Range 65 - 130 Recovery = 105.82%						
67) SURR3,Toluene-d8	7.87	98	584385	53.48	ug/L	0.00
Spiked Amount 50.000 Range 87 - 121 Recovery = 106.96%						
88) SURR2,BFB	10.24	95	231073	51.26	ug/L	0.00
Spiked Amount 50.000 Range 85 - 122 Recovery = 102.52%						
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.04	85	241374	44.25	ug/L	99
3) Chloromethane	1.12	50	264745	47.47	ug/L	100
4) Vinyl Chloride	1.20	62	294374	45.73	ug/L	99
5) Bromomethane	1.37	94	150617	54.97	ug/L	99
6) Chloroethane	1.44	64	149162	47.80	ug/L	96
7) Freon 21	1.47	67	374599	54.17	ug/L	99
8) Freon 123	1.64	83	311312	53.80	ug/L	98
9) Freon 123a	1.66	67	259187	55.99	ug/L	94
10) Acrolein	1.72	56	26146	73.43	ug/L	95
11) Trichlorofluoromethane	1.72	101	284791	49.61	ug/L	97
12) Acetonitrile	1.72	41	60909	241.04	ug/L	89
13) 2-Propanol	1.76	45	106341	1029.23	ug/L	93
14) Acetone	1.79	43	34056	64.03	ug/L	86
15) Diethyl Ether	1.87	59	122785	48.84	ug/L	96
16) 1,1-Diclethene	2.03	96	171237	46.49	ug/L	96
17) Iodomethane	2.04	142	264968	58.09	ug/L	96
18) TBA	2.06	59	160425	1001.64	ug/L	99
19) Acrylonitrile	2.07	53	194306	241.30	ug/L	97
20) Methylene Chloride	2.13	84	193998	48.52	ug/L	96
21) Freon 113	2.17	101	185042	48.07	ug/L	100
22) Methyl Acetate	2.18	43	85388	50.94	ug/L	96
23) Allyl Chloride	2.19	76	79765	36.73	ug/L	90
24) Carbon Disulfide	2.24	76	394657	32.14	ug/L	98
25) trans-1,2-Dichloroethene	2.62	96	178904	46.04	ug/L	99
26) Methyl-t-Butyl Ether	2.74	73	358883	49.58	ug/L	99
27) 1,1-Diclethane	2.83	63	331985	54.76	ug/L	99
28) Propionitrile	2.86	54	66255	261.54	ug/L	98
29) Vinyl Acetate	3.01	43	186108	36.06	ug/L	98
30) 2-Chloro-1,3-Butadiene	3.18	53	140467	25.96	ug/L	91
31) 2-Butanone	3.29	43	44452	51.39	ug/L	99
32) Methacrylonitrile	3.38	67	42337	49.26	ug/L	90
33) cis-1,2-Dichloroethene	3.40	96	208434	52.54	ug/L	99
34) Bromochloromethane	3.56	128	88773	51.76	ug/L #	91
35) Chloroform	3.64	83	326338	50.17	ug/L	98
36) 2,2-Dichloropropane	3.71	77	271277	51.18	ug/L	100
38) Tetrahydrofuran	4.05	42	30031	52.59	ug/L	91
39) 1,1,1-Trichloroethane	4.64	97	273172	52.47	ug/L	94
42) Iso-Butyl Alcohol	3.88	43	67978	956.61	ug/L	99
44) 1,2-Dichloroethane	4.52	64	63184	53.00	ug/L	94

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

Quantitation Report (QT Reviewed)

Data File : I:\ACQUDATA\MSVOA6\DATA\080216\D0637.D Vial: 22
Acq On : 2 Aug 2016 7:13 pm Operator: D.LIPANI
Sample : R1607963-013MS|1.0 Inst : MS#6
Misc : ALS-Canada 8260C 15945 T4 Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Aug 3 14:03 2016 Quant Results File: W071416.RES

Quant Method : I:\ACQUDATA\M...\W071416.M (RTE Integrator)
Title : 8260C / 624 WATERS
Last Update : Mon Jul 18 16:21:59 2016
Response via : Initial Calibration
DataAcq Meth : W071416

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
46)	1,1-Dichloropropene	5.00	75	250793	53.63 ug/L	96
47)	Cyclohexane	5.09	56	309032	55.99 ug/L	99
48)	Carbontetrachloride	5.24	119	225703	50.46 ug/L	97
49)	Benzene	5.33	78	711347	52.23 ug/L	98
51)	Dibromomethane	6.13	93	89996	53.34 ug/L	93
52)	1,2-Diclpropane	6.20	63	189972	54.28 ug/L	97
53)	n-Heptane	6.31	43	195338	47.42 ug/L	98
54)	Trichloroethene	6.28	130	196908	54.77 ug/L	99
55)	Bromodichloromethane	6.32	83	223234	50.30 ug/L	100
56)	2-Nitropropane	6.35	41	42640	104.34 ug/L	100
57)	1,4-Dioxane	6.54	88	14346	918.44 ug/L	92
59)	Methyl Methacrylate	6.72	69	63473	45.36 ug/L	99
61)	Methylcyclohexane	6.86	55	216465	54.23 ug/L	98
63)	cis-1,3-Dichloropropene	7.15	75	257850	52.03 ug/L	99
64)	4-Methyl-2-pentanone	7.35	43	93180	54.23 ug/L	97
65)	trans-1,3-Dichloropropene	7.64	75	206298	52.34 ug/L	99
66)	1,1,2-Trichloroethane	7.75	97	123058	53.34 ug/L	100
68)	Toluene	7.94	91	624243	44.36 ug/L	99
70)	1,3-Dichloropropane	7.99	76	207460	55.78 ug/L	96
71)	Ethyl Methacrylate	8.18	69	126751	45.21 ug/L	100
72)	Dibromochloromethane	8.19	129	139006	47.08 ug/L	96
73)	2-Hexanone	8.24	43	60167	48.01 ug/L	94
74)	1,2-Dibromoethane	8.41	107	121813	49.55 ug/L	100
75)	n-Butyl Acetate	8.61	43	162962	52.07 ug/L	98
76)	Tetrachloroethene	8.61	164	154954	50.34 ug/L	98
77)	1,1,1,2-Tetrachloroethane	9.15	131	164982	52.57 ug/L	99
78)	Chlorobenzene	9.21	112	443675	49.04 ug/L	97
79)	Ethylbenzene	9.42	106	222367	45.29 ug/L	98
80)	Bromoform	9.60	173	76391	46.67 ug/L	100
81)	(m+p)Xylene	9.61	106	427942	73.99 ug/L	94
82)	o-Xylene	9.92	106	237956	42.49 ug/L	98
83)	Cyclohexanone	9.83	55	50186	942.45 ug/L	98
84)	Styrene	9.87	104	24732	2.78 ug/L	96
86)	trans-1,4-Dichloro-2-Buten	10.09	75	32354	34.70 ug/L	89
87)	Isopropylbenzene	10.24	105	619471	41.99 ug/L	99
90)	1,1,2,2-Tetrachloroethane	9.92	83	138132	49.89 ug/L	98
91)	1,2,3-Trichloropropane	10.03	75	94312	49.81 ug/L	96
92)	Bromobenzene	10.37	156	199807	45.52 ug/L	99
93)	n-Propylbenzene	10.60	91	737922	43.48 ug/L	100
94)	2-Chlorotoluene	10.64	91	492746	47.49 ug/L	100
95)	4-Chlorotoluene	10.71	91	503233	46.16 ug/L	99
96)	1,3,5-Trimethylbenzene	10.86	105	257389	21.55 ug/L	98
97)	tert-Butylbenzene	11.06	119	473825	47.95 ug/L	99
98)	1,2,4-Trimethylbenzene	11.16	105	287339	23.25 ug/L	96
99)	sec-Butylbenzene	11.24	105	644468	44.92 ug/L	99
100)	1,3-Dclbenz	11.25	146	376478	47.63 ug/L	99
101)	1,4-Dclbenz	11.30	146	373755	46.35 ug/L	98
102)	p-Isopropyltoluene	11.40	119	490245	39.51 ug/L	99
103)	1,2-Dclbenz	11.57	146	347474	47.62 ug/L	99
104)	n-Butylbenzene	11.72	91	521153	45.96 ug/L	98
105)	1,2-Dibromo-3-chloropropan	11.94	75	20797	48.66 ug/L	96
106)	Nitrobenzene	12.12	77	4718	63.26 ug/L	87
107)	1,2,4-Tcbenzene	13.01	180	209547	43.72 ug/L	98
108)	Naphthalen	13.19	128	306044	40.29 ug/L	98

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

Quantitation Report (QT Reviewed)

1st DL 08/03/16
2nd FJ 08/03/16

Data File : I:\ACQUDATA\MSVOA6\DATA\080216\D0637.D Vial: 22
Acq On : 2 Aug 2016 7:13 pm Operator: D.LIPANI
Sample : R1607963-013MS|1.0 Inst : MS#6
Misc : ALS-Canada 8260C 15945 T4 Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Aug 3 14:03 2016 Quant Results File: W071416.RES

Quant Method : I:\ACQUDATA\M...\W071416.M (RTE Integrator)
Title : 8260C / 624 WATERS
Last Update : Mon Jul 18 16:21:59 2016
Response via : Initial Calibration
DataAcq Meth : W071416

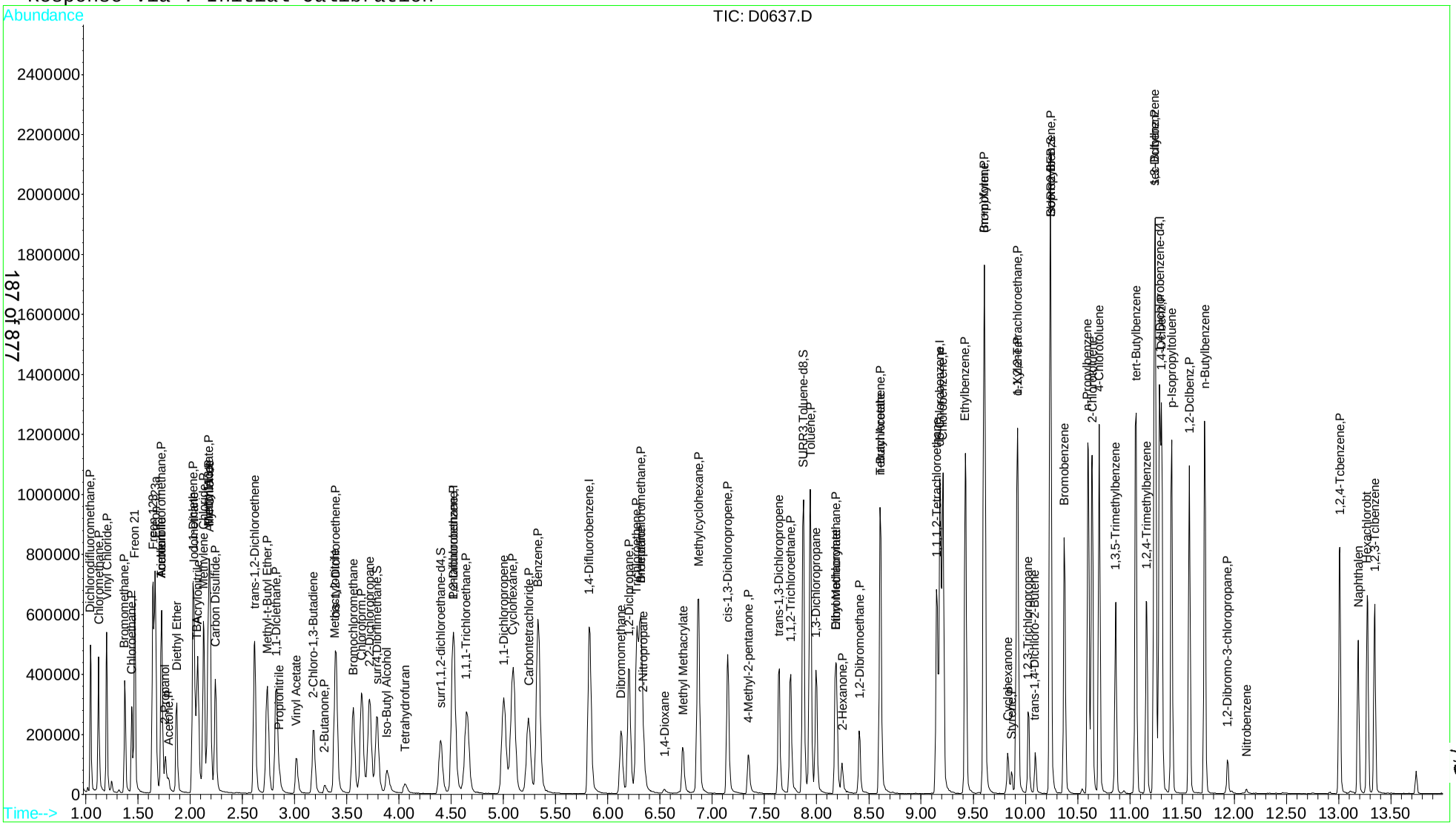
Compound	R.T.	QIon	Response	Conc Unit	Qvalue
109) Hexachlorobt	13.28	225	108327	46.05 ug/L	97
110) 1,2,3-Tclbenzene	13.35	180	159452	43.22 ug/L	100

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

Quantitation Report

Data File : I:\ACQUDATA\MSVOA6\DATA\080216\D0637.D Vial: 22
Acq On : 2 Aug 2016 7:13 pm Operator: D.LIPANI
Sample : R1607963-013MS|1.0 Inst : MS#6
Misc : ALS-Canada 8260C 15945 T4 Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Aug 3 14:03 2016 Quant Results File: W071416.RES

Method : I:\ACQUDATA\MSVOA6\METHODS\W071416.M (RTE Integrator)
Title : 8260C / 624 WATERS
Last Update : Mon Jul 18 16:21:59 2016
Response via : Initial Calibration



1st DL 08/03/16
2nd FJ 08/03/16

1st DL 08/03/16
2nd FJ 08/03/16

Quantitation Report (QT Reviewed)

Data File : I:\ACQUDATA\MSVOA6\DATA\080216\D0639.D Vial: 24
Acq On : 2 Aug 2016 8:16 pm Operator: D.LIPANI
Sample : R1607963-009MS|1.0 Inst : MS#6
Misc : ALS-Canada 8260C 15945 T4 Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Aug 3 14:10 2016 Quant Results File: W071416.RES

Quant Method : I:\ACQUDATA\M...\W071416.M (RTE Integrator)
Title : 8260C / 624 WATERS
Last Update : Mon Jul 18 16:21:59 2016
Response via : Initial Calibration
DataAcq Meth : W071416

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.52	168	374765	50.00	ug/L	0.00
40) 1,4-Difluorobenzene	5.83	114	566576	50.00	ug/L	0.00
69) d5-Chlorobenzene	9.18	117	472428	50.00	ug/L	0.00
89) 1,4-Dichlorobenzene-d4	11.29	152	285613	50.00	ug/L	0.00
System Monitoring Compounds						
41) surr4,Dibrflmethane	3.79	113	188598	51.69	ug/L	0.00
Spiked Amount 50.000 Range 89 - 119 Recovery = 103.38%						
43) surr1,1,2-dichloroethane-d	4.40	65	172582	52.96	ug/L	0.00
Spiked Amount 50.000 Range 65 - 130 Recovery = 105.92%						
67) SURR3,Toluene-d8	7.87	98	591226	51.87	ug/L	0.00
Spiked Amount 50.000 Range 87 - 121 Recovery = 103.74%						
88) SURR2,BFB	10.24	95	243118	53.56	ug/L	0.00
Spiked Amount 50.000 Range 85 - 122 Recovery = 107.12%						

Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.05	85	246055	45.76	ug/L	97
3) Chloromethane	1.12	50	272645	49.59	ug/L	98
4) Vinyl Chloride	1.20	62	295838	46.62	ug/L	99
5) Bromomethane	1.38	94	163908	60.68	ug/L	99
6) Chloroethane	1.44	64	154546	50.24	ug/L	97
7) Freon 21	1.47	67	379074	55.60	ug/L	98
8) Freon 123	1.64	83	320855	56.25	ug/L	97
9) Freon 123a	1.67	67	270157	59.20	ug/L	89
10) Acrolein	1.72	56	27289	77.74	ug/L	98
11) Trichlorofluoromethane	1.73	101	289226	51.10	ug/L	99
12) Acetonitrile	1.73	41	67216	269.83	ug/L	95
13) 2-Propanol	1.76	45	109944	1079.45	ug/L	96
14) Acetone	1.79	43	32637	62.25	ug/L	91
15) Diethyl Ether	1.87	59	133924	54.04	ug/L	98
16) 1,1-Diclethene	2.03	96	178447	49.14	ug/L	98
17) Iodomethane	2.04	142	278636	61.91	ug/L	99
18) TBA	2.06	59	176796	1119.78	ug/L	98
19) Acrylonitrile	2.07	53	208462	262.61	ug/L	99
20) Methylene Chloride	2.13	84	201412	51.10	ug/L	99
21) Freon 113	2.17	101	188531	49.68	ug/L	94
22) Methyl Acetate	2.18	43	93159	56.38	ug/L	93
23) Allyl Chloride	2.19	76	93657	43.75	ug/L #	84
24) Carbon Disulfide	2.24	76	544389	44.97	ug/L	99
25) trans-1,2-Dichloroethene	2.62	96	197295	51.50	ug/L	98
26) Methyl-t-Butyl Ether	2.74	73	379279	53.15	ug/L	98
27) 1,1-Diclethane	2.82	63	332960	55.71	ug/L	99
28) Propionitrile	2.85	54	69628	278.82	ug/L	94
29) Vinyl Acetate	3.02	43	228634	44.94	ug/L	98
30) 2-Chloro-1,3-Butadiene	3.18	53	296309	55.56	ug/L	95
31) 2-Butanone	3.29	43	47521	55.73	ug/L	96
32) Methacrylonitrile	3.38	67	44328	52.32	ug/L	96
33) cis-1,2-Dichloroethene	3.39	96	203423	52.01	ug/L	100
34) Bromochloromethane	3.56	128	86040	50.89	ug/L #	88
35) Chloroform	3.64	83	328961	51.30	ug/L	97
36) 2,2-Dichloropropane	3.72	77	260908	49.93	ug/L	99
38) Tetrahydrofuran	4.06	42	30752	54.63	ug/L	99
39) 1,1,1-Trichloroethane	4.65	97	284304	55.39	ug/L	96
42) Iso-Butyl Alcohol	3.89	43	76972	1038.55	ug/L	93
44) 1,2-Dichloroethane	4.52	64	63219	50.85	ug/L	98

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

Quantitation Report (QT Reviewed)

1st DL 08/03/16
2nd FJ 08/03/16

Data File : I:\ACQUDATA\MSVOA6\DATA\080216\D0639.D Vial: 24
Acq On : 2 Aug 2016 8:16 pm Operator: D.LIPANI
Sample : R1607963-009MS|1.0 Inst : MS#6
Misc : ALS-Canada 8260C 15945 T4 Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Aug 3 14:10 2016 Quant Results File: W071416.RES

Quant Method : I:\ACQUDATA\M...\W071416.M (RTE Integrator)
Title : 8260C / 624 WATERS
Last Update : Mon Jul 18 16:21:59 2016
Response via : Initial Calibration
DataAcq Meth : W071416

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
46)	1,1-Dichloropropene	5.00	75	262150	53.74 ug/L	99
47)	Cyclohexane	5.09	56	308139	53.53 ug/L	99
48)	Carbontetrachloride	5.24	119	235857	50.56 ug/L	95
49)	Benzene	5.33	78	712111	50.13 ug/L	98
51)	Dibromomethane	6.13	93	93914	53.37 ug/L	94
52)	1,2-Diclpropane	6.20	63	198514	54.39 ug/L	95
53)	n-Heptane	6.31	43	169869	39.54 ug/L	97
54)	Trichloroethene	6.28	130	204644	54.58 ug/L	98
55)	Bromodichloromethane	6.33	83	238946	51.62 ug/L	99
56)	2-Nitropropane	6.35	41	46417	108.91 ug/L	91
57)	1,4-Dioxane	6.54	88	15693	963.28 ug/L	98
59)	Methyl Methacrylate	6.71	69	76756	52.60 ug/L	98
61)	Methylcyclohexane	6.87	55	216716	52.06 ug/L	97
62)	2-Chloroethylvinyl Ether	6.99	63	89048	54.41 ug/L	99
63)	cis-1,3-Dichloropropene	7.15	75	272760	52.77 ug/L	98
64)	4-Methyl-2-pentanone	7.35	43	98904	55.19 ug/L	97
65)	trans-1,3-Dichloropropene	7.64	75	216724	52.72 ug/L	99
66)	1,1,2-Trichloroethane	7.75	97	128407	53.37 ug/L	99
68)	Toluene	7.94	91	666934	45.44 ug/L	99
70)	1,3-Dichloropropane	8.00	76	207328	55.37 ug/L	97
71)	Ethyl Methacrylate	8.17	69	159710	56.58 ug/L	97
72)	Dibromochloromethane	8.19	129	154366	51.93 ug/L	97
73)	2-Hexanone	8.24	43	68108	53.98 ug/L	89
74)	1,2-Dibromoethane	8.41	107	124688	50.38 ug/L	99
75)	n-Butyl Acetate	8.62	43	176437	56.00 ug/L	98
76)	Tetrachloroethene	8.61	164	154634	49.89 ug/L	97
77)	1,1,1,2-Tetrachloroethane	9.15	131	166552	52.71 ug/L	97
78)	Chlorobenzene	9.21	112	448395	49.22 ug/L	98
79)	Ethylbenzene	9.43	106	244593	49.47 ug/L	99
80)	Bromoform	9.60	173	91962	55.81 ug/L	99
81)	(m+p)Xylene	9.61	106	564655	96.97 ug/L	99
82)	o-Xylene	9.93	106	292913	51.95 ug/L	99
83)	Cyclohexanone	9.83	55	60790	1133.86 ug/L	97
84)	Styrene	9.86	104	449006	50.14 ug/L	100
86)	trans-1,4-Dichloro-2-Buten	10.10	75	35963	38.30 ug/L	96
87)	Isopropylbenzene	10.24	105	663720	44.68 ug/L	100
90)	1,1,2,2-Tetrachloroethane	9.91	83	147203	50.71 ug/L	99
91)	1,2,3-Trichloropropane	10.03	75	103248	52.00 ug/L	97
92)	Bromobenzene	10.38	156	207732	45.14 ug/L	98
93)	n-Propylbenzene	10.60	91	757144	42.55 ug/L	98
94)	2-Chlorotoluene	10.64	91	485250	44.61 ug/L	99
95)	4-Chlorotoluene	10.71	91	527998	46.19 ug/L	99
96)	1,3,5-Trimethylbenzene	10.86	105	552502	44.12 ug/L	99
97)	tert-Butylbenzene	11.06	119	467094	45.08 ug/L	100
98)	1,2,4-Trimethylbenzene	11.16	105	581895	44.90 ug/L	99
99)	sec-Butylbenzene	11.23	105	656108	43.61 ug/L	100
100)	1,3-Dclbenz	11.25	146	380568	45.92 ug/L	98
101)	1,4-Dclbenz	11.31	146	391648	46.33 ug/L	99
102)	p-Isopropyltoluene	11.40	119	576263	44.29 ug/L	99
103)	1,2-Dclbenz	11.57	146	356378	46.58 ug/L	98
104)	n-Butylbenzene	11.72	91	508173	42.74 ug/L	100
105)	1,2-Dibromo-3-chloropropan	11.94	75	22819	50.92 ug/L	97
106)	Nitrobenzene	12.11	77	7161	91.58 ug/L	76
107)	1,2,4-Tcbenzene	13.01	180	220357	43.85 ug/L	97

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

Quantitation Report (QT Reviewed)

1st DL 08/03/16
2nd FN 08/03/16

Data File : I:\ACQUDATA\MSVOA6\DATA\080216\D0639.D Vial: 24
Acq On : 2 Aug 2016 8:16 pm Operator: D.LIPANI
Sample : R1607963-009MS|1.0 Inst : MS#6
Misc : ALS-Canada 8260C 15945 T4 Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Aug 3 14:10 2016 Quant Results File: W071416.RES

Quant Method : I:\ACQUDATA\M...\W071416.M (RTE Integrator)
Title : 8260C / 624 WATERS
Last Update : Mon Jul 18 16:21:59 2016
Response via : Initial Calibration
DataAcq Meth : W071416

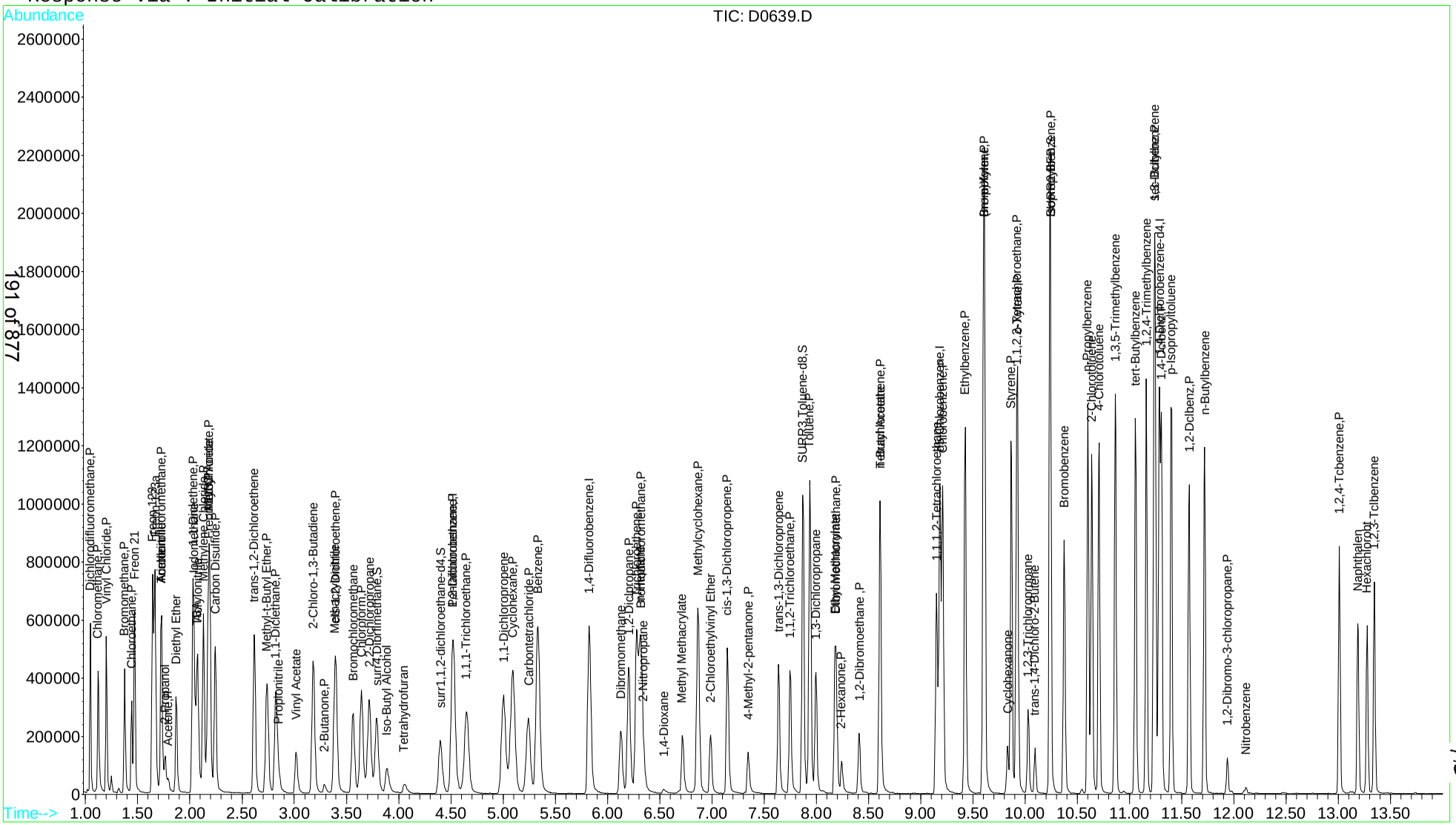
Compound	R.T.	QIon	Response	Conc Unit	Qvalue
108) Naphthalen	13.19	128	372058	46.71 ug/L	99
109) Hexachlorobt	13.28	225	89293	36.21 ug/L	99
110) 1,2,3-Tclbenzene	13.34	180	179467	46.39 ug/L	99

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

Quantitation Report

Data File : I:\ACQUDATA\MSVOA6\DATA\080216\D0639.D Vial: 24
Acq On : 2 Aug 2016 8:16 pm Operator: D.LIPANI
Sample : R1607963-009MS|1.0 Inst : MS#6
Misc : ALS-Canada 8260C 15945 T4 Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Aug 3 14:10 2016 Quant Results File: W071416.RES

Method : I:\ACQUDATA\MSVOA6\METHODS\W071416.M (RTE Integrator)
Title : 8260C / 624 WATERS
Last Update : Mon Jul 18 16:21:59 2016
Response via : Initial Calibration



1st DL 08/03/16
2nd FJ 08/03/16

1st DL 08/03/16
2nd FJ 08/03/16

Quantitation Report (QT Reviewed)

Data File : I:\ACQUDATA\MSVOA6\DATA\080216\D0638.D Vial: 23
Acq On : 2 Aug 2016 7:44 pm Operator: D.LIPANI
Sample : R1607963-013DMS|1.0 Inst : MS#6
Misc : ALS-Canada 8260C 15945 T4 Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Aug 3 14:06 2016 Quant Results File: W071416.RES

Quant Method : I:\ACQUDATA\M...\W071416.M (RTE Integrator)
Title : 8260C / 624 WATERS
Last Update : Mon Jul 18 16:21:59 2016
Response via : Initial Calibration
DataAcq Meth : W071416

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.53	168	372264	50.00	ug/L	0.00
40) 1,4-Difluorobenzene	5.83	114	549550	50.00	ug/L	0.00
69) d5-Chlorobenzene	9.18	117	491093	50.00	ug/L	0.00
89) 1,4-Dichlorobenzene-d4	11.28	152	279295	50.00	ug/L	0.00
System Monitoring Compounds						
41) surr4,Dibrflmethane	3.79	113	185701	52.48	ug/L	0.00
Spiked Amount 50.000 Range 89 - 119 Recovery = 104.96%						
43) surr1,1,2-dichloroethane-d	4.40	65	169626	53.66	ug/L	0.00
Spiked Amount 50.000 Range 65 - 130 Recovery = 107.32%						
67) SURR3,Toluene-d8	7.87	98	578623	52.34	ug/L	0.00
Spiked Amount 50.000 Range 87 - 121 Recovery = 104.68%						
88) SURR2,BFB	10.24	95	234815	49.77	ug/L	0.00
Spiked Amount 50.000 Range 85 - 122 Recovery = 99.54%						

Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.05	85	248271	46.48	ug/L	98
3) Chloromethane	1.12	50	273333	50.05	ug/L	99
4) Vinyl Chloride	1.20	62	288978	45.84	ug/L	99
5) Bromomethane	1.38	94	161377	60.14	ug/L	98
6) Chloroethane	1.44	64	156217	51.12	ug/L	98
7) Freon 21	1.47	67	383867	56.68	ug/L	98
8) Freon 123	1.64	83	313131	55.26	ug/L	98
9) Freon 123a	1.67	67	271650	59.93	ug/L	93
10) Acrolein	1.72	56	24242	69.52	ug/L	87
11) Trichlorofluoromethane	1.73	101	292518	52.03	ug/L	98
12) Acetonitrile	1.73	41	62962	254.45	ug/L	89
13) 2-Propanol	1.76	45	113207	1118.95	ug/L	92
14) Acetone	1.79	43	32978	63.32	ug/L	95
15) Diethyl Ether	1.87	59	128668	52.27	ug/L	94
16) 1,1-Diclethene	2.03	96	178384	49.46	ug/L	98
17) Iodomethane	2.04	142	277104	61.98	ug/L	95
18) TBA	2.06	59	172009	1096.78	ug/L	100
19) Acrylonitrile	2.07	53	196332	248.99	ug/L	97
20) Methylene Chloride	2.13	84	198716	50.76	ug/L	99
21) Freon 113	2.17	101	190714	50.59	ug/L	94
22) Methyl Acetate	2.18	43	87322	53.20	ug/L	94
23) Allyl Chloride	2.19	76	82194	38.66	ug/L	94
24) Carbon Disulfide	2.24	76	387845	32.26	ug/L	98
25) trans-1,2-Dichloroethene	2.62	96	181685	47.75	ug/L	94
26) Methyl-t-Butyl Ether	2.74	73	371439	52.41	ug/L	100
27) 1,1-Diclethane	2.82	63	340717	57.39	ug/L	99
28) Propionitrile	2.85	54	65592	264.42	ug/L	98
29) Vinyl Acetate	3.02	43	150390	29.76	ug/L	97
30) 2-Chloro-1,3-Butadiene	3.18	53	119510	22.56	ug/L	96
31) 2-Butanone	3.29	43	45438	53.64	ug/L	99
32) Methacrylonitrile	3.38	67	42390	50.36	ug/L	90
33) cis-1,2-Dichloroethene	3.39	96	207672	53.46	ug/L	99
34) Bromochloromethane	3.56	128	87381	52.03	ug/L #	86
35) Chloroform	3.64	83	331904	52.11	ug/L	98
36) 2,2-Dichloropropane	3.72	77	267949	51.62	ug/L	96
38) Tetrahydrofuran	4.06	42	30147	53.92	ug/L	87
39) 1,1,1-Trichloroethane	4.65	97	282949	55.50	ug/L	98
42) Iso-Butyl Alcohol	3.89	43	75565	1051.15	ug/L	100
44) 1,2-Dichloroethane	4.51	64	62827	52.10	ug/L	97

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

Quantitation Report (QT Reviewed)

1st DL 08/03/16
2nd FJ 08/03/16

Data File : I:\ACQUDATA\MSVOA6\DATA\080216\D0638.D Vial: 23
Acq On : 2 Aug 2016 7:44 pm Operator: D.LIPANI
Sample : R1607963-013DMS|1.0 Inst : MS#6
Misc : ALS-Canada 8260C 15945 T4 Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Aug 3 14:06 2016 Quant Results File: W071416.RES

Quant Method : I:\ACQUDATA\M...\W071416.M (RTE Integrator)
Title : 8260C / 624 WATERS
Last Update : Mon Jul 18 16:21:59 2016
Response via : Initial Calibration
DataAcq Meth : W071416

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
46)	1,1-Dichloropropene	5.01	75	250497	52.95 ug/L	99
47)	Cyclohexane	5.09	56	306043	54.81 ug/L	99
48)	Carbontetrachloride	5.24	119	224487	49.61 ug/L	99
49)	Benzene	5.33	78	716927	52.04 ug/L	99
51)	Dibromomethane	6.12	93	93240	54.62 ug/L	94
52)	1,2-Diclpropane	6.20	63	190835	53.90 ug/L	95
53)	n-Heptane	6.31	43	208367	50.00 ug/L	98
54)	Trichloroethene	6.28	130	205038	56.38 ug/L	98
55)	Bromodichloromethane	6.33	83	228402	50.87 ug/L	100
56)	2-Nitropropane	6.34	41	38286	92.61 ug/L	88
57)	1,4-Dioxane	6.54	88	14734	932.44 ug/L	85
59)	Methyl Methacrylate	6.72	69	63652	44.97 ug/L	91
61)	Methylcyclohexane	6.87	55	216240	53.55 ug/L	97
63)	cis-1,3-Dichloropropene	7.15	75	261370	52.13 ug/L	99
64)	4-Methyl-2-pentanone	7.35	43	94815	54.55 ug/L	98
65)	trans-1,3-Dichloropropene	7.64	75	204518	51.29 ug/L	99
66)	1,1,2-Trichloroethane	7.75	97	126152	54.05 ug/L	98
68)	Toluene	7.94	91	615468	43.23 ug/L	99
70)	1,3-Dichloropropane	8.00	76	211227	54.27 ug/L	97
71)	Ethyl Methacrylate	8.18	69	129629	44.18 ug/L	97
72)	Dibromochloromethane	8.19	129	145355	47.04 ug/L	98
73)	2-Hexanone	8.24	43	62778	47.87 ug/L	94
74)	1,2-Dibromoethane	8.41	107	123949	48.17 ug/L	96
75)	n-Butyl Acetate	8.62	43	164370	50.19 ug/L	99
76)	Tetrachloroethene	8.61	164	154721	48.02 ug/L	98
77)	1,1,1,2-Tetrachloroethane	9.15	131	168693	51.36 ug/L	98
78)	Chlorobenzene	9.21	112	443400	46.83 ug/L	96
79)	Ethylbenzene	9.43	106	223798	43.55 ug/L	98
80)	Bromoform	9.60	173	78076	45.58 ug/L	100
81)	(m+p)Xylene	9.61	106	418347	69.11 ug/L	96
82)	o-Xylene	9.93	106	227537	38.82 ug/L	98
83)	Cyclohexanone	9.83	55	55633	998.24 ug/L	96
84)	Styrene	9.87	104	9325	1.00 ug/L	97
86)	trans-1,4-Dichloro-2-Buten	10.10	75	34134	34.97 ug/L	96
87)	Isopropylbenzene	10.24	105	626329	40.56 ug/L	99
90)	1,1,2,2-Tetrachloroethane	9.91	83	141753	49.94 ug/L	99
91)	1,2,3-Trichloropropane	10.03	75	99285	51.14 ug/L	95
92)	Bromobenzene	10.38	156	209483	46.55 ug/L	98
93)	n-Propylbenzene	10.60	91	731462	42.04 ug/L	98
94)	2-Chlorotoluene	10.64	91	507506	47.71 ug/L	99
95)	4-Chlorotoluene	10.70	91	522777	46.77 ug/L	100
96)	1,3,5-Trimethylbenzene	10.86	105	205230	16.76 ug/L	96
97)	tert-Butylbenzene	11.06	119	479526	47.33 ug/L	99
98)	1,2,4-Trimethylbenzene	11.16	105	234277	18.49 ug/L	96
99)	sec-Butylbenzene	11.23	105	655767	44.58 ug/L	100
100)	1,3-Dclbenz	11.25	146	386960	47.75 ug/L	99
101)	1,4-Dclbenz	11.31	146	377786	45.70 ug/L	100
102)	p-Isopropyltoluene	11.40	119	484189	38.06 ug/L	100
103)	1,2-Dclbenz	11.57	146	358639	47.93 ug/L	99
104)	n-Butylbenzene	11.71	91	518294	44.58 ug/L	99
105)	1,2-Dibromo-3-chloropropan	11.94	75	20599	47.01 ug/L	98
106)	Nitrobenzene	12.12	77	4708	61.57 ug/L	93
107)	1,2,4-Tcbenzene	13.01	180	232414	47.30 ug/L	100
108)	Naphthalen	13.19	128	330917	42.49 ug/L	98

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

Quantitation Report (QT Reviewed)

1st DL 08/03/16
2nd FJ 08/03/16

Data File : I:\ACQUDATA\MSVOA6\DATA\080216\D0638.D Vial: 23
Acq On : 2 Aug 2016 7:44 pm Operator: D.LIPANI
Sample : R1607963-013DMS|1.0 Inst : MS#6
Misc : ALS-Canada 8260C 15945 T4 Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Aug 3 14:06 2016 Quant Results File: W071416.RES

Quant Method : I:\ACQUDATA\M...\W071416.M (RTE Integrator)
Title : 8260C / 624 WATERS
Last Update : Mon Jul 18 16:21:59 2016
Response via : Initial Calibration
DataAcq Meth : W071416

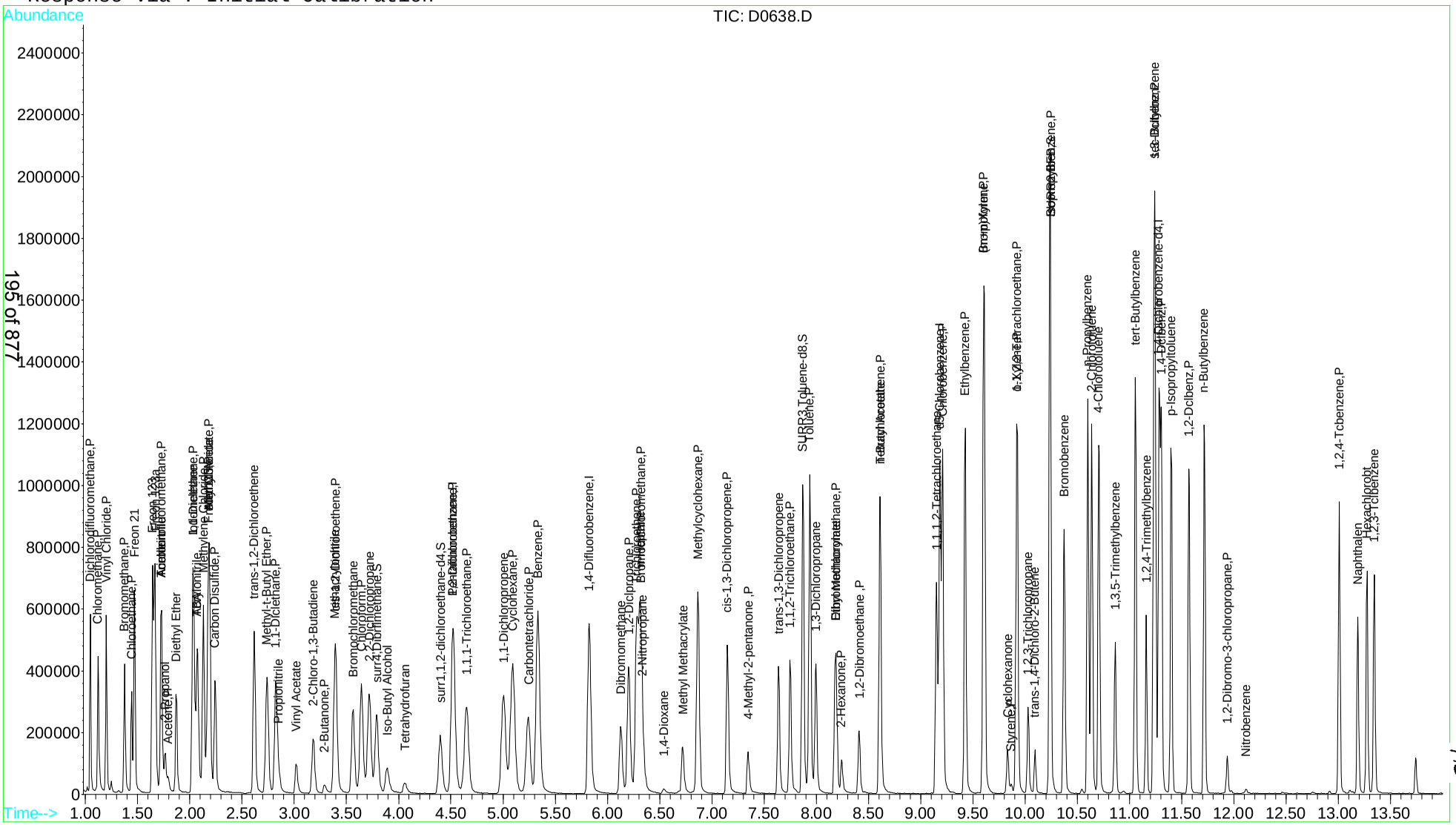
Compound	R.T.	QIon	Response	Conc Unit	Qvalue
109) Hexachlorobt	13.28	225	110363	45.76 ug/L	98
110) 1,2,3-Tclbenzene	13.34	180	180653	47.75 ug/L	98

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

Quantitation Report

Data File : I:\ACQUDATA\MSVOA6\DATA\080216\D0638.D Vial: 23
Acq On : 2 Aug 2016 7:44 pm Operator: D.LIPANI
Sample : R1607963-013DMS|1.0 Inst : MS#6
Misc : ALS-Canada 8260C 15945 T4 Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Aug 3 14:06 2016 Quant Results File: W071416.RES

Method : I:\ACQUDATA\MSVOA6\METHODS\W071416.M (RTE Integrator)
Title : 8260C / 624 WATERS
Last Update : Mon Jul 18 16:21:59 2016
Response via : Initial Calibration



1st DL 08/03/16
2nd FJ 08/03/16

1st DL 08/03/16
2nd FJ 08/03/16

Quantitation Report (QT Reviewed)

Data File : I:\ACQUDATA\MSVOA6\DATA\080216\D0640.D Vial: 25
Acq On : 2 Aug 2016 8:47 pm Operator: D.LIPANI
Sample : R1607963-009DMS|1.0 Inst : MS#6
Misc : ALS-Canada 8260C 15945 T4 Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Aug 3 14:16 2016 Quant Results File: W071416.RES

Quant Method : I:\ACQUDATA\M...\W071416.M (RTE Integrator)
Title : 8260C / 624 WATERS
Last Update : Mon Jul 18 16:21:59 2016
Response via : Initial Calibration
DataAcq Meth : W071416

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.52	168	373708	50.00	ug/L	0.00
40) 1,4-Difluorobenzene	5.83	114	561834	50.00	ug/L	0.00
69) d5-Chlorobenzene	9.18	117	469062	50.00	ug/L	0.00
89) 1,4-Dichlorobenzene-d4	11.29	152	280292	50.00	ug/L	0.00
System Monitoring Compounds						
41) surr4,Dibrflmethane	3.79	113	187636	51.86	ug/L	0.00
Spiked Amount 50.000 Range 89 - 119 Recovery = 103.72%						
43) surr1,1,2-dichloroethane-d	4.40	65	167319	51.78	ug/L	0.00
Spiked Amount 50.000 Range 65 - 130 Recovery = 103.56%						
67) SURR3,Toluene-d8	7.87	98	607246	53.73	ug/L	0.00
Spiked Amount 50.000 Range 87 - 121 Recovery = 107.46%						
88) SURR2,BFB	10.24	95	250760	55.64	ug/L	0.00
Spiked Amount 50.000 Range 85 - 122 Recovery = 111.28%						
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.05	85	233517	43.55	ug/L	98
3) Chloromethane	1.12	50	257682	47.00	ug/L	97
4) Vinyl Chloride	1.20	62	279558	44.18	ug/L	99
5) Bromomethane	1.37	94	151026	56.07	ug/L	98
6) Chloroethane	1.44	64	142067	46.31	ug/L	93
7) Freon 21	1.47	67	351091	51.64	ug/L	99
8) Freon 123	1.64	83	305123	53.64	ug/L	98
9) Freon 123a	1.67	67	260411	57.23	ug/L	96
10) Acrolein	1.72	56	26314	75.18	ug/L	98
11) Trichlorofluoromethane	1.73	101	272608	48.30	ug/L	99
12) Acetonitrile	1.73	41	61408	247.21	ug/L	90
13) 2-Propanol	1.76	45	109295	1076.11	ug/L	91
14) Acetone	1.79	43	39068	74.72	ug/L	98
15) Diethyl Ether	1.87	59	128575	52.03	ug/L	96
16) 1,1-Diclethene	2.03	96	171680	47.41	ug/L	97
17) Iodomethane	2.04	142	268541	59.87	ug/L	98
18) TBA	2.06	59	171139	1087.01	ug/L	99
19) Acrylonitrile	2.07	53	202880	256.30	ug/L	98
20) Methylene Chloride	2.13	84	188468	47.95	ug/L	98
21) Freon 113	2.17	101	178194	47.09	ug/L	95
22) Methyl Acetate	2.18	43	86438	52.46	ug/L	100
23) Allyl Chloride	2.19	76	91615	42.92	ug/L	91
24) Carbon Disulfide	2.24	76	524649	43.46	ug/L	100
25) trans-1,2-Dichloroethene	2.62	96	182409	47.75	ug/L	97
26) Methyl-t-Butyl Ether	2.74	73	373511	52.49	ug/L	97
27) 1,1-Diclethane	2.82	63	312827	52.49	ug/L	98
28) Propionitrile	2.85	54	71435	286.86	ug/L	99
29) Vinyl Acetate	3.02	43	212794	41.94	ug/L	99
30) 2-Chloro-1,3-Butadiene	3.18	53	274620	51.64	ug/L	97
31) 2-Butanone	3.28	43	48080	56.54	ug/L	99
32) Methacrylonitrile	3.38	67	47643	56.39	ug/L	98
33) cis-1,2-Dichloroethene	3.39	96	195252	50.07	ug/L	94
34) Bromochloromethane	3.56	128	87508	51.91	ug/L #	88
35) Chloroform	3.64	83	316282	49.46	ug/L	97
36) 2,2-Dichloropropane	3.72	77	242276	46.50	ug/L	97
38) Tetrahydrofuran	4.06	42	29750	53.00	ug/L	100
39) 1,1,1-Trichloroethane	4.65	97	271525	53.05	ug/L	95
42) Iso-Butyl Alcohol	3.89	43	75218	1023.45	ug/L	95
44) 1,2-Dichloroethane	4.52	64	62079	50.35	ug/L #	89

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

Quantitation Report (QT Reviewed)

1st DL 08/03/16
2nd FJ 08/03/16

Data File : I:\ACQUDATA\MSVOA6\DATA\080216\D0640.D Vial: 25
Acq On : 2 Aug 2016 8:47 pm Operator: D.LIPANI
Sample : R1607963-009DMS|1.0 Inst : MS#6
Misc : ALS-Canada 8260C 15945 T4 Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Aug 3 14:16 2016 Quant Results File: W071416.RES

Quant Method : I:\ACQUDATA\M...\W071416.M (RTE Integrator)
Title : 8260C / 624 WATERS
Last Update : Mon Jul 18 16:21:59 2016
Response via : Initial Calibration
DataAcq Meth : W071416

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
46)	1,1-Dichloropropene	5.01	75	247498	51.17 ug/L	98
47)	Cyclohexane	5.09	56	297860	52.18 ug/L	99
48)	Carbontetrachloride	5.24	119	222293	48.05 ug/L	99
49)	Benzene	5.33	78	683109	48.50 ug/L	99
51)	Dibromomethane	6.13	93	89556	51.32 ug/L	96
52)	1,2-Diclpropane	6.20	63	189988	52.49 ug/L	99
53)	n-Heptane	6.31	43	159758	37.50 ug/L	96
54)	Trichloroethene	6.28	130	200381	53.89 ug/L	99
55)	Bromodichloromethane	6.32	83	229167	49.92 ug/L	100
56)	2-Nitropropane	6.35	41	46806	110.75 ug/L	96
57)	1,4-Dioxane	6.54	88	16771	1038.14 ug/L	93
59)	Methyl Methacrylate	6.71	69	75594	52.24 ug/L	94
60)	n-Propyl Acetate	6.76	43	339	Below Cal	90
61)	Methylcyclohexane	6.87	55	203822	49.37 ug/L	98
62)	2-Chloroethylvinyl Ether	6.99	63	87625	53.99 ug/L	97
63)	cis-1,3-Dichloropropene	7.15	75	258419	50.41 ug/L	99
64)	4-Methyl-2-pentanone	7.35	43	97435	54.83 ug/L	99
65)	trans-1,3-Dichloropropene	7.64	75	205951	50.52 ug/L	99
66)	1,1,2-Trichloroethane	7.75	97	121773	51.04 ug/L	99
68)	Toluene	7.94	91	646059	44.39 ug/L	99
70)	1,3-Dichloropropane	8.00	76	207149	55.72 ug/L	97
71)	Ethyl Methacrylate	8.18	69	150508	53.71 ug/L	98
72)	Dibromochloromethane	8.19	129	151518	51.34 ug/L	98
73)	2-Hexanone	8.24	43	68361	54.57 ug/L	89
74)	1,2-Dibromoethane	8.41	107	121811	49.57 ug/L	98
75)	n-Butyl Acetate	8.62	43	168793	53.96 ug/L	98
76)	Tetrachloroethene	8.61	164	145537	47.30 ug/L	99
77)	1,1,1,2-Tetrachloroethane	9.15	131	163426	52.09 ug/L	99
78)	Chlorobenzene	9.21	112	423386	46.81 ug/L	99
79)	Ethylbenzene	9.43	106	231065	47.07 ug/L	99
80)	Bromoform	9.60	173	91297	55.80 ug/L	100
81)	(m+p)Xylene	9.61	106	539771	93.36 ug/L	99
82)	o-Xylene	9.93	106	281765	50.33 ug/L	99
83)	Cyclohexanone	9.83	55	223045	4190.12 ug/L	93
84)	Styrene	9.87	104	426690	47.99 ug/L	99
86)	trans-1,4-Dichloro-2-Buten	10.10	75	39150	42.00 ug/L	97
87)	Isopropylbenzene	10.24	105	657807	44.60 ug/L	100
90)	1,1,2,2-Tetrachloroethane	9.91	83	137902	48.41 ug/L	100
91)	1,2,3-Trichloropropane	10.03	75	99916	51.28 ug/L	98
92)	Bromobenzene	10.38	156	202816	44.90 ug/L	98
93)	n-Propylbenzene	10.60	91	749119	42.90 ug/L	98
94)	2-Chlorotoluene	10.64	91	495566	46.42 ug/L	99
95)	4-Chlorotoluene	10.71	91	504099	44.94 ug/L	100
96)	1,3,5-Trimethylbenzene	10.86	105	550491	44.80 ug/L	100
97)	tert-Butylbenzene	11.06	119	459993	45.24 ug/L	99
98)	1,2,4-Trimethylbenzene	11.16	105	558732	43.93 ug/L	100
99)	sec-Butylbenzene	11.23	105	636715	43.13 ug/L	99
100)	1,3-Dclbenz	11.24	146	373211	45.89 ug/L	99
101)	1,4-Dclbenz	11.31	146	373113	44.97 ug/L	98
102)	p-Isopropyltoluene	11.40	119	539358	42.24 ug/L	99
103)	1,2-Dclbenz	11.57	146	349422	46.54 ug/L	99
104)	n-Butylbenzene	11.72	91	504814	43.27 ug/L	99
105)	1,2-Dibromo-3-chloropropan	11.94	75	22127	50.32 ug/L	92
106)	Nitrobenzene	12.11	77	7838	102.14 ug/L	89

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

Quantitation Report (QT Reviewed)

1st DL 08/03/16
2nd FJ 08/03/16

Data File : I:\ACQUDATA\MSVOA6\DATA\080216\D0640.D Vial: 25
Acq On : 2 Aug 2016 8:47 pm Operator: D.LIPANI
Sample : R1607963-009DMS|1.0 Inst : MS#6
Misc : ALS-Canada 8260C 15945 T4 Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Aug 3 14:16 2016 Quant Results File: W071416.RES

Quant Method : I:\ACQUDATA\M...\W071416.M (RTE Integrator)
Title : 8260C / 624 WATERS
Last Update : Mon Jul 18 16:21:59 2016
Response via : Initial Calibration
DataAcq Meth : W071416

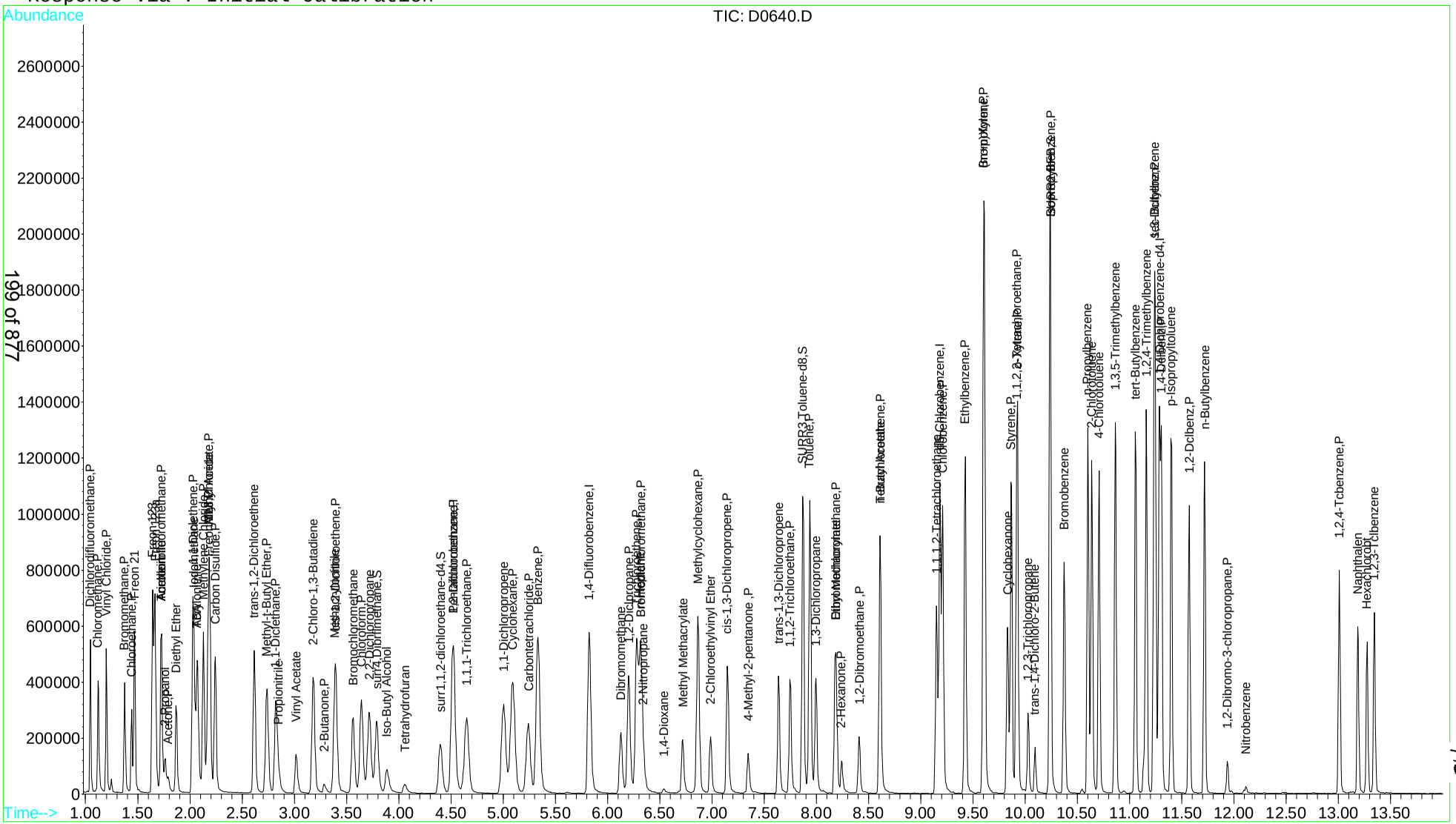
Compound	R.T.	QIon	Response	Conc Unit	Qvalue
107) 1,2,4-Tcbenzene	13.01	180	208189	42.22 ug/L	99
108) Naphthalen	13.18	128	357550	45.74 ug/L	99
109) Hexachlorobt	13.28	225	85039	35.14 ug/L	99
110) 1,2,3-Tclbenzene	13.34	180	165704	43.65 ug/L	99

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

Quantitation Report

Data File : I:\ACQUDATA\MSVOA6\DATA\080216\D0640.D Vial: 25
Acq On : 2 Aug 2016 8:47 pm Operator: D.LIPANI
Sample : R1607963-009DMS|1.0 Inst : MS#6
Misc : ALS-Canada 8260C 15945 T4 Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Aug 3 14:16 2016 Quant Results File: W071416.RES

Method : I:\ACQUDATA\MSVOA6\METHODS\W071416.M (RTE Integrator)
Title : 8260C / 624 WATERS
Last Update : Mon Jul 18 16:21:59 2016
Response via : Initial Calibration



1st DL 08/03/16
2nd FJ 08/03/16

Quantitation Report (Not Reviewed)

1st DL 08/03/16
2nd FJ 08/03/16

Data File : I:\ACQUDATA\MSVOA6\DATA\080216\D0620.D Vial: 5
Acq On : 2 Aug 2016 9:52 am Operator: D.LIPANI
Sample : CCV Inst : MS#6
Misc : 8260C Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Aug 2 10:10 2016 Quant Results File: W071416.RES

Quant Method : I:\ACQUDATA\M...\W071416.M (RTE Integrator)
Title : 8260C / 624 WATERS
Last Update : Mon Jul 18 16:21:59 2016
Response via : Initial Calibration
DataAcq Meth : W071416

	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
46)	1,1-Dichloropropene	5.00	75	253767	53.24 ug/L		99
47)	Cyclohexane	5.09	56	321538	57.16 ug/L		96
48)	Carbontetrachloride	5.24	119	229218	50.28 ug/L		96
49)	Benzene	5.33	78	704185	50.73 ug/L		99
51)	Dibromomethane	6.13	93	88185	51.28 ug/L		94
52)	1,2-Diclpropane	6.20	63	195595	54.83 ug/L		99
53)	n-Heptane	6.30	43	222557	53.00 ug/L		98
54)	Trichloroethene	6.27	130	190422	51.97 ug/L		98
55)	Bromodichloromethane	6.32	83	231820	51.24 ug/L		99
56)	2-Nitropropane	6.35	41	39427	94.66 ug/L		96
57)	1,4-Dioxane	6.54	88	15214	955.59 ug/L		98
58)	Epichlorohydrin	6.71	57	1023	5.70 ug/L		79
59)	Methyl Methacrylate	6.72	69	72282	50.68 ug/L		95
60)	n-Propyl Acetate	6.72	43	2565	0.49 ug/L		67
61)	Methylcyclohexane	6.86	55	220152	54.11 ug/L		97
62)	2-Chloroethylvinyl Ether	6.99	63	77782	48.63 ug/L		96
63)	cis-1,3-Dichloropropene	7.15	75	273489	54.14 ug/L		98
64)	4-Methyl-2-pentanone	7.34	43	90116	51.46 ug/L		93
65)	trans-1,3-Dichloropropene	7.64	75	215403	53.62 ug/L		99
66)	1,1,2-Trichloroethane	7.75	97	116705	49.63 ug/L		96
68)	Toluene	7.93	91	665780	46.42 ug/L		99
70)	1,3-Dichloropropane	8.00	76	205900	56.09 ug/L		98
71)	Ethyl Methacrylate	8.18	69	145663	52.64 ug/L		96
72)	Dibromochloromethane	8.19	129	147537	50.62 ug/L		97
73)	2-Hexanone	8.24	43	60746	49.11 ug/L		93
74)	1,2-Dibromoethane	8.41	107	124085	51.13 ug/L		99
75)	n-Butyl Acetate	8.62	43	164704	53.32 ug/L		99
76)	Tetrachloroethene	8.61	164	147918	48.68 ug/L		97
77)	1,1,1,2-Tetrachloroethane	9.15	131	168451	54.37 ug/L		99
78)	Chlorobenzene	9.21	112	437191	48.95 ug/L		98
79)	Ethylbenzene	9.42	106	250099	51.60 ug/L		100
80)	Bromoform	9.60	173	86243	53.38 ug/L		99
81)	(m+p)Xylene	9.61	106	581033	101.77 ug/L		99
82)	o-Xylene	9.92	106	300369	54.34 ug/L		99
83)	Cyclohexanone	9.83	55	63963	1216.87 ug/L		93
84)	Styrene	9.87	104	465658	53.03 ug/L		99
85)	Amyl Acetate	9.99	43	7635	1.85 ug/L	#	56
86)	trans-1,4-Dichloro-2-Buten	10.09	75	39790	43.23 ug/L		98
87)	Isopropylbenzene	10.24	105	691482	47.48 ug/L		99
90)	1,1,2,2-Tetrachloroethane	9.91	83	142282	50.81 ug/L		99
91)	1,2,3-Trichloropropane	10.03	75	100964	52.72 ug/L		97
92)	Bromobenzene	10.37	156	208559	46.98 ug/L		96
93)	n-Propylbenzene	10.60	91	829224	48.32 ug/L		99
94)	2-Chlorotoluene	10.64	91	480799	45.82 ug/L		98
95)	4-Chlorotoluene	10.71	91	546331	49.55 ug/L		100
96)	1,3,5-Trimethylbenzene	10.87	105	589753	48.83 ug/L		100
97)	tert-Butylbenzene	11.05	119	501047	50.13 ug/L		100
98)	1,2,4-Trimethylbenzene	11.16	105	613958	49.12 ug/L		99
99)	sec-Butylbenzene	11.24	105	722978	49.82 ug/L		100
100)	1,3-Dclbenz	11.25	146	401675	50.25 ug/L		99
101)	1,4-Dclbenz	11.30	146	396511	48.62 ug/L		99
102)	p-Isopropyltoluene	11.40	119	603712	48.11 ug/L		99
103)	1,2-Dclbenz	11.57	146	361453	48.98 ug/L		98
104)	n-Butylbenzene	11.72	91	585228	51.03 ug/L		99

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

Quantitation Report (Not Reviewed)

1st DL 08/03/16
2nd FJ 08/03/16

Data File : I:\ACQUDATA\MSVOA6\DATA\080216\D0620.D Vial: 5
Acq On : 2 Aug 2016 9:52 am Operator: D.LIPANI
Sample : CCV Inst : MS#6
Misc : 8260C Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Aug 2 10:10 2016 Quant Results File: W071416.RES

Quant Method : I:\ACQUDATA\M...\W071416.M (RTE Integrator)
Title : 8260C / 624 WATERS
Last Update : Mon Jul 18 16:21:59 2016
Response via : Initial Calibration
DataAcq Meth : W071416

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
105) 1,2-Dibromo-3-chloropropan	11.94	75	21707	50.22	ug/L	94
106) Nitrobenzene	12.12	77	8200	108.72	ug/L	99
107) 1,2,4-Tcbenzene	13.01	180	232166	47.90	ug/L	100
108) Naphthalen	13.19	128	349883	45.54	ug/L	100
109) Hexachlorobt	13.27	225	121453	51.05	ug/L	98
110) 1,2,3-Tclbenzene	13.35	180	185564	49.73	ug/L	98

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

Evaluate Continuing Calibration Report

1st DL 08/03/16
2nd FJ 08/03/16

Data File : I:\ACQUDATA\MSVOA6\DATA\080216\D0620.D Vial: 5
Acq On : 2 Aug 2016 9:52 am Operator: D.LIPANI
Sample : CCV Inst : MS#6
Misc : 8260C Multiplr: 1.00
MS Integration Params: CPD4.P

Method : I:\ACQUDATA\MSVOA6\METHODS\W071416.M (RTE Integrator)
Title : 8260C / 624 WATERS
Last Update : Mon Jul 18 16:21:59 2016
Response via : Multiple Level Calibration

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

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	
1	I	Pentafluorobenzene	1.0000	1.0000	0.0	104	0.00	
2	P	Dichlorodifluoromethane	0.7174	0.7721	-7.6	114	0.00	
3	P	Chloromethane	0.7335	0.7729	-5.4	116	0.00	
4	P	Vinyl Chloride	0.8466	0.8105	4.3	103	0.00	
5	P	Bromomethane	0.3604	0.4351	-20.7#	118	0.00	x - 20-40
6	P	Chloroethane	0.4104	0.4242	-3.4	109	0.00	
7		Freon 21	0.9096	0.9790	-7.6	122	0.00	
8		Freon 123	0.7611	0.8157	-7.2	120	0.00	
9		Freon 123a	0.6088	0.6670	-9.6	120	0.00	
10		Acrolein	0.0468	0.0425	9.2	92	0.00	
11	P	Trichlorofluoromethane	0.7551	0.8166	-8.1	113	0.00	
12		Acetonitrile	0.0332	0.0351	-5.7	116	0.00	
13		2-Propanol	0.0136	0.0141	-3.7	109	0.00	
14	P	Acetone	0.0700	0.0750	-7.1	108	0.00	
15		Diethyl Ether	0.3307	0.3336	-0.9	104	0.00	
16	P	1,1-Diclethene	0.4845	0.5147	-6.2	109	0.00	
17		Iodomethane	0.5458	0.6987	~~-28.0#~~	112	0.00	+16.5 % Drift
18		TBA	0.0211	0.0228	-8.1	106	0.00	
19		Acrylonitrile	0.1059	0.1122	-5.9	103	0.00	
20	P	Methylene Chloride	0.5259	0.5314	-1.0	107	0.00	
21	P	Freon 113	0.5063	0.5455	-7.7	108	0.00	
22	P	Methyl Acetate	0.2205	0.2524	-14.5	125	0.00	
23		Allyl Chloride	0.2856	0.3076	-7.7	106	0.00	
24	P	Carbon Disulfide	1.6150	1.5077	6.6	111	0.00	
25		trans-1,2-Dichloroethene	0.5111	0.5248	-2.7	106	0.00	
26	P	Methyl-t-Butyl Ether	0.9520	0.9895	-3.9	105	0.00	
27	P	1,1-Diclethane	0.7973	0.9151	-14.8	113	0.00	
28		Propionitrile	0.0333	0.0371	-11.4	104	0.00	
29		Vinyl Acetate	0.6788	0.6686	1.5	94	0.00	
30		2-Chloro-1,3-Butadiene	0.7116	0.7800	-9.6	117	0.00	
31	P	2-Butanone	0.1138	0.1156	-1.6	110	0.00	
32		Methacrylonitrile	0.1130	0.1167	-3.3	103	0.00	
33	P	cis-1,2-Dichloroethene	0.5218	0.5429	-4.0	107	0.00	
34		Bromochloromethane	0.2256	0.2436	-8.0	106	0.00	
35	P	Chloroform	0.8555	0.9023	-5.5	109	0.00	
36		2,2-Dichloropropane	0.6972	0.7782	-11.6	112	0.00	
37		Ethyl Acetate	0.2328	0.0004	~~99.8#~~	0#	0.00	
38		Tetrahydrofuran	0.0751	0.0817	-8.8	114	0.00	
39	P	1,1,1-Trichloroethane	0.6848	0.7591	-10.8	112	0.00	
40	I	1,4-Difluorobenzene	1.0000	1.0000	0.0	109	0.00	
41	S	surr4,Dibrflmethane	0.3220	0.3285	-2.0	107	0.00	
42		Iso-Butyl Alcohol	0.0065	0.0064	1.5	101	0.00	
43	S	surr1,1,2-dichloroethane-d4	0.2876	0.2987	-3.9	110	0.00	
44	P	1,2-Dichloroethane	0.1097	0.1065	2.9	110	0.00	
45		2-Methyl-1,3-Dioxolane	0.0201	0.0000	~~100.0#~~	0#	0.00	
46		1,1-Dichloropropene	0.4305	0.4583	-6.5	113	0.00	
47	P	Cyclohexane	0.5080	0.5807	-14.3	123	0.00	
48	P	Carbontetrachloride	0.4117	0.4140	-0.6	109	0.00	
49	P	Benzene	1.2535	1.2718	-1.5	108	0.00	
50		Isopropyl Acetate	0.3561	0.0005	~~99.9#~~	0#	0.08	
51		Dibromomethane	0.1553	0.1593	-2.6	111	0.00	
52	P	1,2-Diclpropane	0.3221	0.3532	-9.7	113	0.00	
53		n-Heptane	0.3792	0.4019	-6.0	106	0.00	

(#) = Out of Range

Evaluate Continuing Calibration Report

1st DL 08/03/16
2nd FJ 08/03/16

Data File : I:\ACQUDATA\MSVOA6\DATA\080216\D0620.D Vial: 5
Acq On : 2 Aug 2016 9:52 am Operator: D.LIPANI
Sample : CCV Inst : MS#6
Misc : 8260C Multiplr: 1.00
MS Integration Params: CPD4.P

Method : I:\ACQUDATA\MSVOA6\METHODS\W071416.M (RTE Integrator)
Title : 8260C / 624 WATERS
Last Update : Mon Jul 18 16:21:59 2016
Response via : Multiple Level Calibration

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

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
54	P	Trichloroethene	0.3309	0.3439	-3.9	106	0.00
55	P	Bromodichloromethane	0.4085	0.4187	-2.5	109	0.00
56		2-Nitropropane	0.0376	0.0356	5.3	116	0.00
57		1,4-Dioxane	0.0014	0.0014	0.0	98	0.00
58		Epichlorohydrin	0.0162	0.0000	~~100.0#~~	0#	-6.71#
59		Methyl Methacrylate	0.1288	0.1305	-1.3	101	0.00
60		n-Propyl Acetate	0.2421	0.0000	~~100.0#~~	0#	-6.74#
61	P	Methylcyclohexane	0.3674	0.3976	-8.2	119	0.00
62		2-Chloroethylvinyl Ether	0.1444	0.1405	2.7	104	0.00
63	P	cis-1,3-Dichloropropene	0.4562	0.4939	-8.3	108	0.00
64	P	4-Methyl-2-pentanone	0.1581	0.1628	-3.0	108	0.00
65		trans-1,3-Dichloropropene	0.3628	0.3890	-7.2	112	0.00
66	P	1,1,2-Trichloroethane	0.2123	0.2108	0.7	105	0.00
67	S	SURR3,Toluene-d8	1.0058	1.1022	-9.6	107	0.00
68	P	Toluene	1.2952	1.2024	7.2	108	0.00
69	I	d5-Chlorobenzene	1.0000	1.0000	0.0	107	0.00
70		1,3-Dichloropropane	0.3963	0.4445	-12.2	112	0.00
71		Ethyl Methacrylate	0.2987	0.3145	-5.3	101	0.00
72	P	Dibromochloromethane	0.3146	0.3185	-1.2	99	0.00
73	P	2-Hexanone	0.1335	0.1312	1.7	115	0.00
74	P	1,2-Dibromoethane	0.2620	0.2679	-2.3	108	0.00
75		n-Butyl Acetate	0.3335	0.3556	-6.6	105	0.00
76	P	Tetrachloroethene	0.3280	0.3194	2.6	102	0.00
77		1,1,1,2-Tetrachloroethane	0.3344	0.3637	-8.8	113	0.00
78	P	Chlorobenzene	0.9641	0.9439	2.1	106	0.00
79	P	Ethylbenzene	0.5232	0.5400	-3.2	109	0.00
80	P	Bromoform	0.1744	0.1862	-6.8	110	0.00
81	P	(m+p)Xylene	0.6163	0.6272	-1.8	112	0.00
82	P	o-Xylene	0.5967	0.6485	-8.7	112	0.00
83		Cyclohexanone	0.0057	0.0069	-21.1#	117	0.00
84	P	Styrene	0.9479	1.0054	-6.1	112	0.00
85		Amyl Acetate	0.4449	0.0000	~~100.0#~~	0#	-9.98#
86		trans-1,4-Dichloro-2-Butene	0.0994	0.0859	13.6	88	0.00
87	P	Isopropylbenzene	1.5720	1.4929	5.0	109	0.00
88	S	SURR2,BFB	0.4804	0.5205	-8.3	106	0.00
89	I	1,4-Dichlorobenzene-d4	1.0000	1.0000	0.0	106	0.00
90	P	1,1,2,2-Tetrachloroethane	0.5082	0.5165	-1.6	106	0.00
91		1,2,3-Trichloropropane	0.3476	0.3665	-5.4	111	0.00
92		Bromobenzene	0.8057	0.7570	6.0	103	0.00
93		n-Propylbenzene	3.1148	3.0099	3.4	111	0.00
94		2-Chlorotoluene	1.9045	1.7452	8.4	105	0.00
95		4-Chlorotoluene	2.0011	1.9831	0.9	108	0.00
96		1,3,5-Trimethylbenzene	2.1920	2.1407	2.3	112	0.00
97		tert-Butylbenzene	1.8139	1.8187	-0.3	111	0.00
98		1,2,4-Trimethylbenzene	2.2687	2.2285	1.8	108	0.00
99		sec-Butylbenzene	2.6336	2.6243	0.4	112	0.00
100	P	1,3-Dclbenz	1.4507	1.4580	-0.5	108	0.00
101	P	1,4-Dclbenz	1.4800	1.4393	2.7	106	0.00
102		p-Isopropyltoluene	2.2776	2.1913	3.8	103	0.00
103	P	1,2-Dclbenz	1.3394	1.3120	2.0	108	0.00
104		n-Butylbenzene	2.0812	2.1243	-2.1	108	0.00
105	P	1,2-Dibromo-3-chloropropane	0.0784	0.0788	-0.5	111	0.00

(#) = Out of Range

Evaluate Continuing Calibration Report

1st DL 08/03/16
2nd FJ 08/03/16

Data File : I:\ACQUDATA\MSVOA6\DATA\080216\D0620.D Vial: 5
Acq On : 2 Aug 2016 9:52 am Operator: D.LIPANI
Sample : CCV Inst : MS#6
Misc : 8260C Multiplr: 1.00
MS Integration Params: CPD4.P

Method : I:\ACQUDATA\MSVOA6\METHODS\W071416.M (RTE Integrator)
Title : 8260C / 624 WATERS
Last Update : Mon Jul 18 16:21:59 2016
Response via : Multiple Level Calibration

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

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
106		Nitrobenzene	0.0137	0.0149	-8.8	145	0.00
107	P	1,2,4-Tcbenzene	0.8797	0.8427	4.2	102	0.00
108		Naphthalen	1.3943	1.2700	8.9	95	0.00
109		Hexachlorobt	0.4317	0.4408	-2.1	103	0.00
110		1,2,3-Tclbenzene	0.6772	0.6736	0.5	102	0.00

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

1st DL 08/03/16
2nd FJ 08/03/16

Quantitation Report (QT Reviewed)

Data File : I:\ACQUDATA\MSVOA6\DATA\080216\D0620.D Vial: 5
Acq On : 2 Aug 2016 9:52 am Operator: D.LIPANI
Sample : CCV Inst : MS#6
Misc : 8260C Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Aug 2 10:17 2016 Quant Results File: W071416.RES

Quant Method : I:\ACQUDATA\M...\W071416.M (RTE Integrator)
Title : 8260C / 624 WATERS
Last Update : Mon Jul 18 16:21:59 2016
Response via : Initial Calibration
DataAcq Meth : W071416

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.52	168	362811	50.00	ug/L	0.00
40) 1,4-Difluorobenzene	5.82	114	553704	50.00	ug/L	0.00
69) d5-Chlorobenzene	9.18	117	463178	50.00	ug/L	0.00
89) 1,4-Dichlorobenzene-d4	11.29	152	275498	50.00	ug/L	0.00
System Monitoring Compounds						
41) surr4,Dibrflmethane	3.79	113	181885	51.01	ug/L	0.00
Spiked Amount 50.000 Range 89 - 119 Recovery = 102.02%						
43) surr1,1,2-dichloroethane-d	4.40	65	165366	51.92	ug/L	0.00
Spiked Amount 50.000 Range 65 - 130 Recovery = 103.84%						
67) SURR3,Toluene-d8	7.87	98	610290	54.79	ug/L	0.00
Spiked Amount 50.000 Range 87 - 121 Recovery = 109.58%						
88) SURR2,BFB	10.24	95	241076	54.17	ug/L	0.00
Spiked Amount 50.000 Range 85 - 122 Recovery = 108.34%						
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.04	85	280123	53.81	ug/L	98
3) Chloromethane	1.12	50	280400	52.68	ug/L	100
4) Vinyl Chloride	1.20	62	294067	47.87	ug/L	98
5) Bromomethane	1.37	94	157847	60.36	ug/L	96
6) Chloroethane	1.44	64	153911	51.68	ug/L	100
7) Freon 21	1.47	67	355178	53.81	ug/L	97
8) Freon 123	1.64	83	295959	53.59	ug/L	97
9) Freon 123a	1.66	67	241995	54.78	ug/L	95
10) Acrolein	1.72	56	77074	226.80	ug/L	92
11) Trichlorofluoromethane	1.73	101	296273	54.07	ug/L	99
12) Acetonitrile	1.73	41	63603	263.74	ug/L	96
13) 2-Propanol	1.76	45	102170	1036.17	ug/L	94
14) Acetone	1.79	43	27213	53.61	ug/L	87
15) Diethyl Ether	1.87	59	121035	50.45	ug/L	94
16) 1,1-Diclethene	2.03	96	186738	53.12	ug/L	98
17) Iodomethane	2.04	142	253497	58.24	ug/L	100
18) TBA	2.06	59	165290	1081.39	ug/L	95
19) Acrylonitrile	2.07	53	203534	264.85	ug/L	96
20) Methylene Chloride	2.13	84	192783	50.52	ug/L	96
21) Freon 113	2.18	101	197906	53.87	ug/L	96
22) Methyl Acetate	2.18	43	91564	57.24	ug/L	96
23) Allyl Chloride	2.19	76	111600	53.85	ug/L #	85
24) Carbon Disulfide	2.24	76	547008	46.68	ug/L	99
25) trans-1,2-Dichloroethene	2.61	96	190402	51.34	ug/L	98
26) Methyl-t-Butyl Ether	2.74	73	358986	51.97	ug/L	98
27) 1,1-Diclethane	2.82	63	332002	57.38	ug/L	99
28) Propionitrile	2.85	54	67366	278.65	ug/L	97
29) Vinyl Acetate	3.01	43	242588	49.25	ug/L	98
30) 2-Chloro-1,3-Butadiene	3.18	53	282979	54.81	ug/L	99
31) 2-Butanone	3.29	43	41926	50.79	ug/L	97
32) Methacrylonitrile	3.37	67	42358	51.64	ug/L	94
33) cis-1,2-Dichloroethene	3.39	96	196981	52.03	ug/L	96
34) Bromochloromethane	3.56	128	88374	54.00	ug/L #	84
35) Chloroform	3.64	83	327352	52.73	ug/L	97
36) 2,2-Dichloropropane	3.72	77	282332	55.81	ug/L	99
38) Tetrahydrofuran	4.06	42	29645	54.40	ug/L	93
39) 1,1,1-Trichloroethane	4.64	97	275414	55.43	ug/L	98
42) Iso-Butyl Alcohol	3.88	43	70568	974.27	ug/L	97
44) 1,2-Dichloroethane	4.52	64	58969	48.53	ug/L	97

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

Quantitation Report (QT Reviewed)

1st DL 08/03/16
2nd FJ 08/03/16

Data File : I:\ACQUDATA\MSVOA6\DATA\080216\D0620.D Vial: 5
Acq On : 2 Aug 2016 9:52 am Operator: D.LIPANI
Sample : CCV Inst : MS#6
Misc : 8260C Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Aug 2 10:17 2016 Quant Results File: W071416.RES

Quant Method : I:\ACQUDATA\M...\W071416.M (RTE Integrator)
Title : 8260C / 624 WATERS
Last Update : Mon Jul 18 16:21:59 2016
Response via : Initial Calibration
DataAcq Meth : W071416

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
46)	1,1-Dichloropropene	5.00	75	253767	53.24 ug/L	99
47)	Cyclohexane	5.09	56	321538	57.16 ug/L	96
48)	Carbontetrachloride	5.24	119	229218	50.28 ug/L	96
49)	Benzene	5.33	78	704185	50.73 ug/L	99
51)	Dibromomethane	6.13	93	88185	51.28 ug/L	94
52)	1,2-Diclpropane	6.20	63	195595	54.83 ug/L	99
53)	n-Heptane	6.30	43	222557	53.00 ug/L	98
54)	Trichloroethene	6.27	130	190422	51.97 ug/L	98
55)	Bromodichloromethane	6.32	83	231820	51.24 ug/L	99
56)	2-Nitropropane	6.35	41	39427	94.66 ug/L	96
57)	1,4-Dioxane	6.54	88	15214	955.59 ug/L	98
59)	Methyl Methacrylate	6.72	69	72282	50.68 ug/L	95
61)	Methylcyclohexane	6.86	55	220152	54.11 ug/L	97
62)	2-Chloroethylvinyl Ether	6.99	63	77782	48.63 ug/L	96
63)	cis-1,3-Dichloropropene	7.15	75	273489	54.14 ug/L	98
64)	4-Methyl-2-pentanone	7.34	43	90116	51.46 ug/L	93
65)	trans-1,3-Dichloropropene	7.64	75	215403	53.62 ug/L	99
66)	1,1,2-Trichloroethane	7.75	97	116705	49.63 ug/L	96
68)	Toluene	7.93	91	665780	46.42 ug/L	99
70)	1,3-Dichloropropane	8.00	76	205900	56.09 ug/L	98
71)	Ethyl Methacrylate	8.18	69	145663	52.64 ug/L	96
72)	Dibromochloromethane	8.19	129	147537	50.62 ug/L	97
73)	2-Hexanone	8.24	43	60746	49.11 ug/L	93
74)	1,2-Dibromoethane	8.41	107	124085	51.13 ug/L	99
75)	n-Butyl Acetate	8.62	43	164704	53.32 ug/L	99
76)	Tetrachloroethene	8.61	164	147918	48.68 ug/L	97
77)	1,1,1,2-Tetrachloroethane	9.15	131	168451	54.37 ug/L	99
78)	Chlorobenzene	9.21	112	437191	48.95 ug/L	98
79)	Ethylbenzene	9.42	106	250099	51.60 ug/L	100
80)	Bromoform	9.60	173	86243	53.38 ug/L	99
81)	(m+p)Xylene	9.61	106	581033	101.77 ug/L	99
82)	o-Xylene	9.92	106	300369	54.34 ug/L	99
83)	Cyclohexanone	9.83	55	63963	1216.87 ug/L	93
84)	Styrene	9.87	104	465658	53.03 ug/L	99
86)	trans-1,4-Dichloro-2-Buten	10.09	75	39790	43.23 ug/L	98
87)	Isopropylbenzene	10.24	105	691482	47.48 ug/L	99
90)	1,1,2,2-Tetrachloroethane	9.91	83	142282	50.81 ug/L	99
91)	1,2,3-Trichloropropane	10.03	75	100964	52.72 ug/L	97
92)	Bromobenzene	10.37	156	208559	46.98 ug/L	96
93)	n-Propylbenzene	10.60	91	829224	48.32 ug/L	99
94)	2-Chlorotoluene	10.64	91	480799	45.82 ug/L	98
95)	4-Chlorotoluene	10.71	91	546331	49.55 ug/L	100
96)	1,3,5-Trimethylbenzene	10.87	105	589753	48.83 ug/L	100
97)	tert-Butylbenzene	11.05	119	501047	50.13 ug/L	100
98)	1,2,4-Trimethylbenzene	11.16	105	613958	49.12 ug/L	99
99)	sec-Butylbenzene	11.24	105	722978	49.82 ug/L	100
100)	1,3-Dclbenz	11.25	146	401675	50.25 ug/L	99
101)	1,4-Dclbenz	11.30	146	396511	48.62 ug/L	99
102)	p-Isopropyltoluene	11.40	119	603712	48.11 ug/L	99
103)	1,2-Dclbenz	11.57	146	361453	48.98 ug/L	98
104)	n-Butylbenzene	11.72	91	585228	51.03 ug/L	99
105)	1,2-Dibromo-3-chloropropan	11.94	75	21707	50.22 ug/L	94
106)	Nitrobenzene	12.12	77	8200	108.72 ug/L	99
107)	1,2,4-Tcbenzene	13.01	180	232166	47.90 ug/L	100

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

Quantitation Report (QT Reviewed)

1st DL 08/03/16
2nd FJ 08/03/16

Data File : I:\ACQUDATA\MSVOA6\DATA\080216\D0620.D Vial: 5
Acq On : 2 Aug 2016 9:52 am Operator: D.LIPANI
Sample : CCV Inst : MS#6
Misc : 8260C Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Aug 2 10:17 2016 Quant Results File: W071416.RES

Quant Method : I:\ACQUDATA\M...\W071416.M (RTE Integrator)
Title : 8260C / 624 WATERS
Last Update : Mon Jul 18 16:21:59 2016
Response via : Initial Calibration
DataAcq Meth : W071416

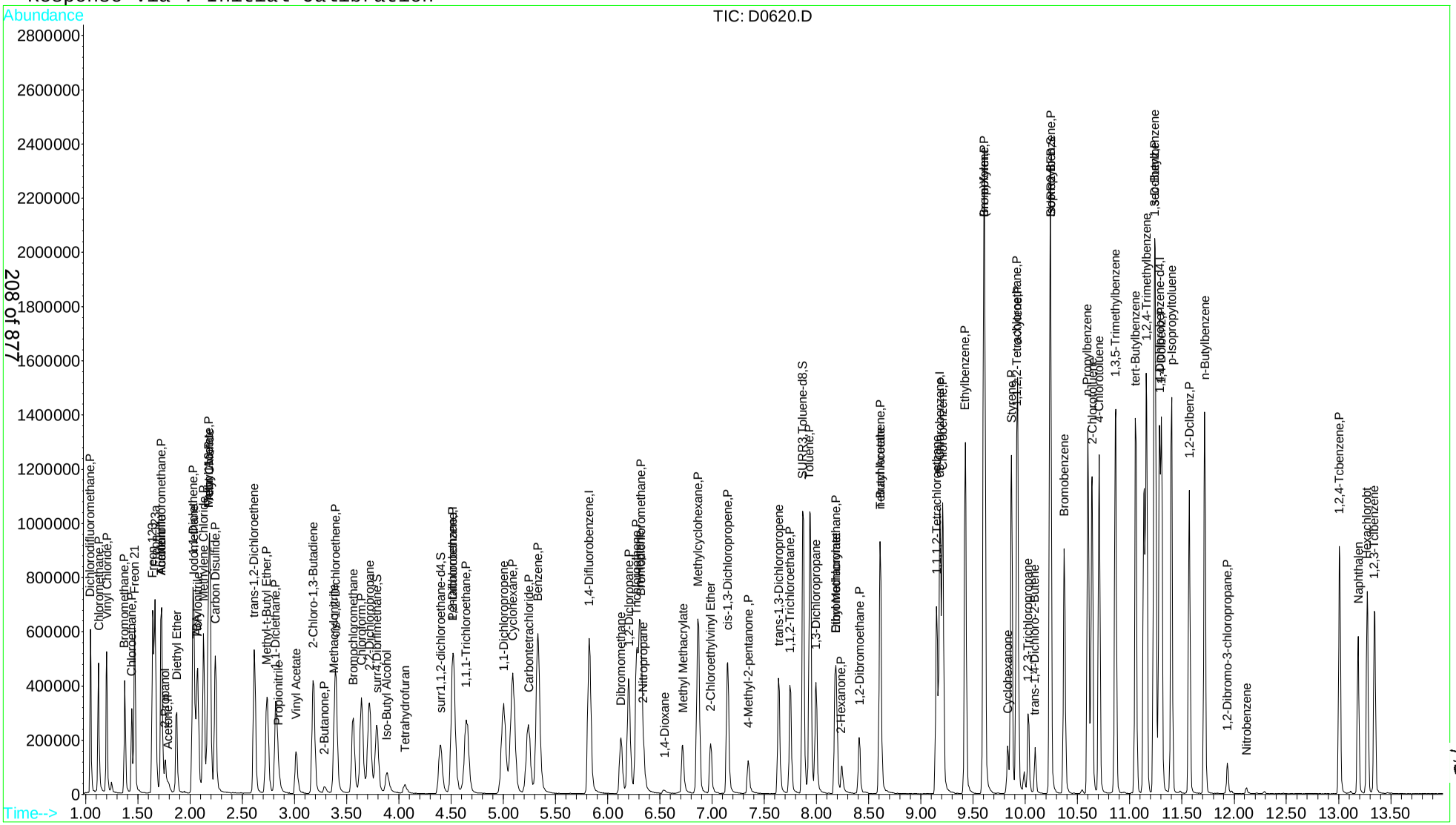
Compound	R.T.	QIon	Response	Conc Unit	Qvalue
108) Naphthalen	13.19	128	349883	45.54 ug/L	100
109) Hexachlorobt	13.27	225	121453	51.05 ug/L	98
110) 1,2,3-Tclbenzene	13.35	180	185564	49.73 ug/L	98

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

Quantitation Report

Data File : I:\ACQUDATA\MSVOA6\DATA\080216\D0620.D Vial: 5
Acq On : 2 Aug 2016 9:52 am Operator: D.LIPANI
Sample : CCV Inst : MS#6
Misc : 8260C Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Aug 2 10:17 2016 Quant Results File: W071416.RES

Method : I:\ACQUDATA\MSVOA6\METHODS\W071416.M (RTE Integrator)
Title : 8260C / 624 WATERS
Last Update : Mon Jul 18 16:21:59 2016
Response via : Initial Calibration

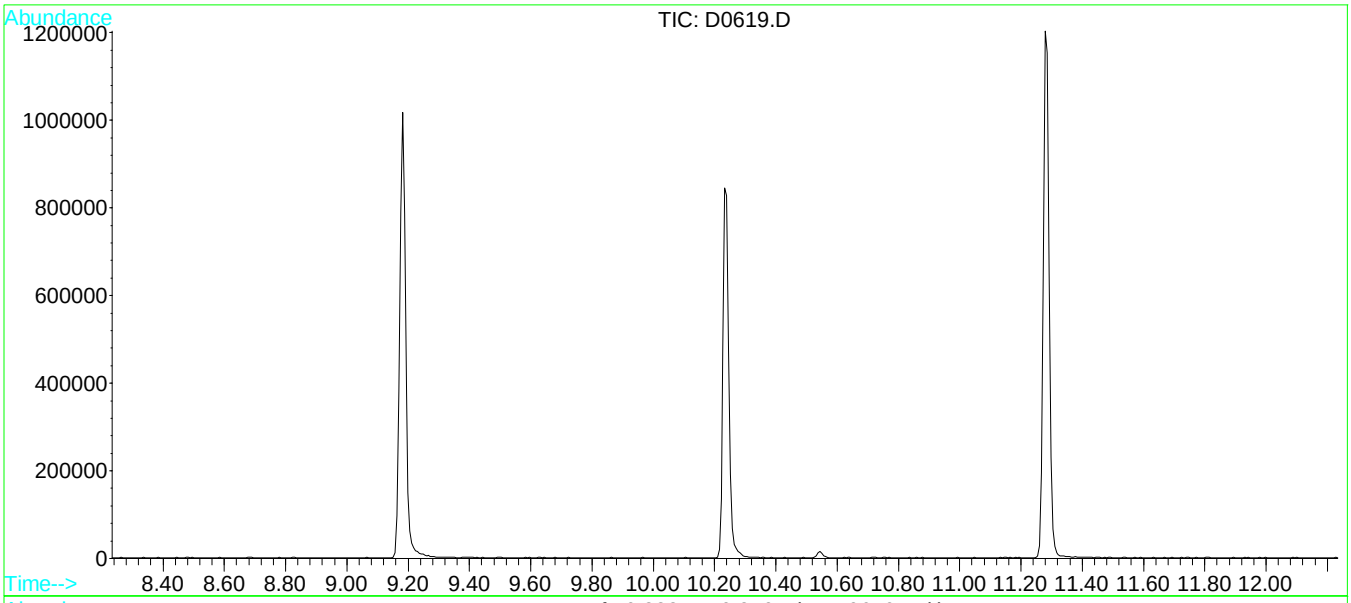


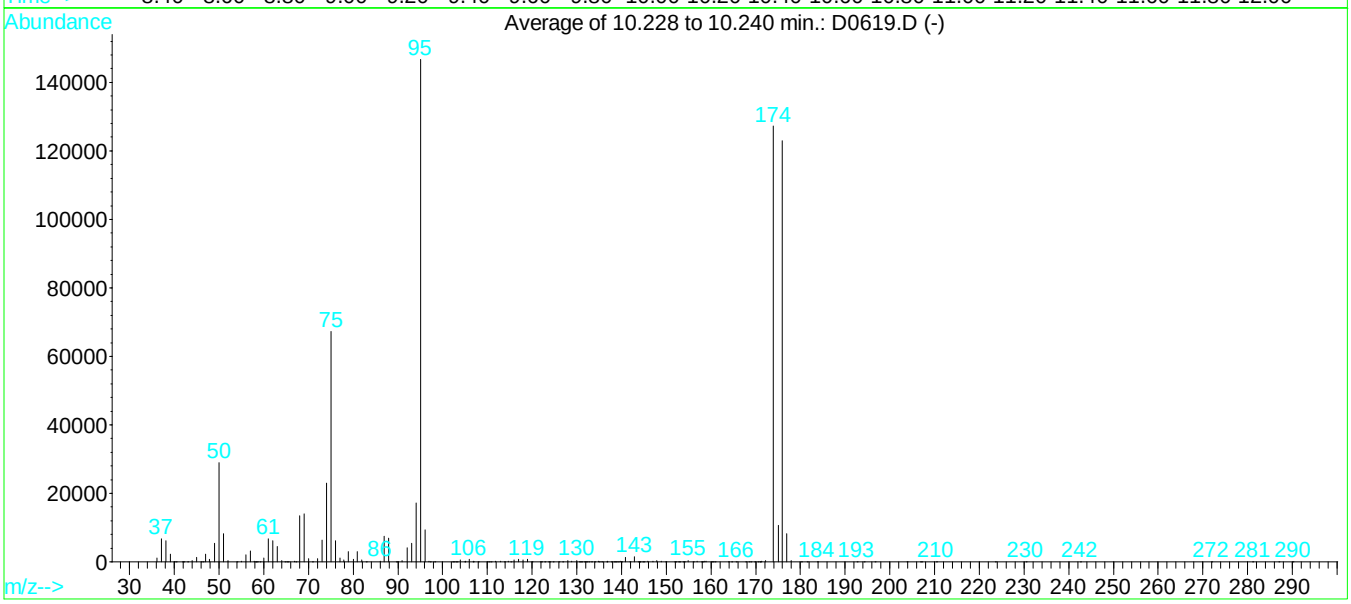
1st DL 08/03/16
2nd FJ 08/03/16

1st DL 08/03/16
2nd FJ 08/03/16

BFB

Data File : I:\ACQUDATA\MSVOA6\DATA\080216\D0619.D Vial: 4
Acq On : 2 Aug 2016 9:07 am Operator: D.LIPANI
Sample : TUNE CHECK Inst : MS#6
Misc : 8260C / 624 Multiplr: 1.00
MS Integration Params: CPD4.P
Method : I:\ACQUDATA\MSVOA6\METHODS\W071416.M (RTE Integrator)
Title : 8260C / 624 WATERS





AutoFind: Scans 1522, 1523, 1524; Background Corrected with Scan 1517

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	19.7	28939	PASS
75	95	30	60	45.8	67229	PASS
95	95	100	100	100.0	146656	PASS
96	95	5	9	6.4	9332	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	86.8	127229	PASS
175	174	5	9	8.3	10589	PASS
176	174	95	101	96.7	123045	PASS
177	176	5	9	6.8	8319	PASS

D0619.D W071416.M Tue Aug 02 09:24:21 2016

Initial Calibration - Summary Report

DL 7/19/16

Calibration ID: RC1600073

Instrument ID: R-MS-06
Column Name: 1

Analyte	Type	Curve Fit	Weighting	Min RF	Mean RF	Criteria	Result
1,1,1,2-Tetrachloroethane	T	Average RF			0.3344	<=15	5.6
1,1,1,2-Tetrachloroethane	T	Average RF			0.3344	<=20	5.6
1,1,1,2-Tetrachloroethane	T	Average RF			0.3344	<=35	5.6
1,1,1-Trichloroethane (TCA)	T	Average RF		0.100	0.6848	<=15	5.4
1,1,1-Trichloroethane (TCA)	T	Average RF		0.100	0.6848	<=20	5.4
1,1,1-Trichloroethane (TCA)	T	Average RF			0.6848	<=35	5.4
1,1,2,2-Tetrachloroethane	T	Average RF		0.300	0.5082	<=15	6.6
1,1,2,2-Tetrachloroethane	T	Average RF		0.300	0.5082	<=20	6.6
1,1,2,2-Tetrachloroethane	T	Average RF			0.5082	<=35	6.6
1,1,2-Trichloroethane	T	Average RF		0.100	0.2123	<=15	5.6
1,1,2-Trichloroethane	T	Average RF		0.100	0.2123	<=20	5.6
1,1,2-Trichloroethane	T	Average RF			0.2123	<=35	5.6
1,1,2-Trichlorotrifluoroethane	T	Average RF		0.100	0.5063	<=15	6.8
1,1,2-Trichlorotrifluoroethane	T	Average RF		0.100	0.5063	<=20	6.8
1,1,2-Trichlorotrifluoroethane	T	Average RF			0.5063	<=35	6.8
1,1-Dichloroethane (1,1-DCA)	T	Average RF		0.200	0.7973	<=15	7.4
1,1-Dichloroethane (1,1-DCA)	T	Average RF		0.200	0.7973	<=20	7.4
1,1-Dichloroethane (1,1-DCA)	T	Average RF			0.7973	<=35	7.4
1,1-Dichloroethene (1,1-DCE)	T	Average RF		0.100	0.4845	<=15	8.0
1,1-Dichloroethene (1,1-DCE)	T	Average RF		0.100	0.4845	<=20	8.0
1,1-Dichloroethene (1,1-DCE)	T	Average RF			0.4845	<=35	8.0
1,1-Dichloropropene	T	Average RF			0.4305	<=15	5.9
1,1-Dichloropropene	T	Average RF			0.4305	<=20	5.9
1,1-Dichloropropene	T	Average RF			0.4305	<=35	5.9
1,2,3-Trichlorobenzene	T	Average RF			0.6772	<=15	6.5
1,2,3-Trichlorobenzene	T	Average RF			0.6772	<=20	6.5
1,2,3-Trichlorobenzene	T	Average RF			0.6772	<=35	6.5
1,2,3-Trichloropropane	T	Average RF			0.3476	<=15	7.2
1,2,3-Trichloropropane	T	Average RF			0.3476	<=20	7.2
1,2,3-Trichloropropane	T	Average RF			0.3476	<=35	7.2
1,2,4-Trichlorobenzene	T	Average RF		0.200	0.8797	<=15	7.6
1,2,4-Trichlorobenzene	T	Average RF		0.200	0.8797	<=20	7.6
1,2,4-Trichlorobenzene	T	Average RF			0.8797	<=35	7.6
1,2,4-Trimethylbenzene	T	Average RF			2.269	<=15	9.1
1,2,4-Trimethylbenzene	T	Average RF			2.269	<=20	9.1
1,2,4-Trimethylbenzene	T	Average RF			2.269	<=35	9.1
1,2-Dibromo-3-chloropropane (DBCP)	T	Average RF		0.050	0.07844	<=15	6.3
1,2-Dibromo-3-chloropropane (DBCP)	T	Average RF		0.050	0.07844	<=20	6.3
1,2-Dibromo-3-chloropropane (DBCP)	T	Average RF			0.07844	<=35	6.3
1,2-Dibromoethane	T	Average RF		0.100	0.2620	<=15	6.6
1,2-Dibromoethane	T	Average RF		0.100	0.2620	<=20	6.6
1,2-Dibromoethane	T	Average RF			0.2620	<=35	6.6
1,2-Dichloro-1,1,2-trifluoroethane (CFC 123:	T	Average RF			0.6088	<=15	8.9
1,2-Dichloro-1,1,2-trifluoroethane (CFC 123:	T	Average RF			0.6088	<=20	8.9
1,2-Dichloro-1,1,2-trifluoroethane (CFC 123:	T	Average RF			0.6088	<=35	8.9
1,2-Dichlorobenzene	T	Average RF		0.400	1.339	<=15	6.4
1,2-Dichlorobenzene	T	Average RF		0.400	1.339	<=20	6.4
1,2-Dichlorobenzene	T	Average RF			1.339	<=35	6.4
1,2-Dichloroethane	T	Average RF		0.100	0.1097	<=15	10.5
1,2-Dichloroethane	T	Average RF		0.100	0.1097	<=20	10.5
1,2-Dichloroethane	T	Average RF			0.1097	<=35	10.5
1,2-Dichloropropane	T	Average RF		0.100	0.3221	<=15	6.5

Initial Calibration - Summary Report

Calibration ID:	RC1600073	**Instrument ID:**	R-MS-06
		Column Name:	1

Analyte	Type	Curve Fit	Weighting	Min RF	Mean RF	Criteria	Result
1,2-Dichloropropane	T	Average RF		0.100	0.3221	<=20	6.5
1,2-Dichloropropane	T	Average RF			0.3221	<=35	6.5
1,3,5-Trimethylbenzene	T	Average RF			2.192	<=15	10.4
1,3,5-Trimethylbenzene	T	Average RF			2.192	<=20	10.4
1,3,5-Trimethylbenzene	T	Average RF			2.192	<=35	10.4
1,3-Dichlorobenzene	T	Average RF		0.600	1.451	<=15	6.7
1,3-Dichlorobenzene	T	Average RF		0.600	1.451	<=20	6.7
1,3-Dichlorobenzene	T	Average RF			1.451	<=35	6.7
1,3-Dichloropropane	T	Average RF			0.3963	<=15	7.4
1,3-Dichloropropane	T	Average RF			0.3963	<=20	7.4
1,3-Dichloropropane	T	Average RF			0.3963	<=35	7.4
1,4-Dichlorobenzene	T	Average RF		0.500	1.480	<=15	7.8
1,4-Dichlorobenzene	T	Average RF		0.500	1.480	<=20	7.8
1,4-Dichlorobenzene	T	Average RF			1.480	<=35	7.8
1,4-Dioxane	T	Average RF			0.001438	<=15	7.7
1,4-Dioxane	T	Average RF			0.001438	<=20	7.7
1,4-Dioxane	T	Average RF			0.001438	<=35	7.7
2,2-Dichloro-1,1,1-trifluoroethane (CFC 123	T	Average RF			0.7611	<=15	8.1
2,2-Dichloro-1,1,1-trifluoroethane (CFC 123	T	Average RF			0.7611	<=20	8.1
2,2-Dichloro-1,1,1-trifluoroethane (CFC 123	T	Average RF			0.7611	<=35	8.1
2,2-Dichloropropane	T	Average RF			0.6972	<=15	6.1
2,2-Dichloropropane	T	Average RF			0.6972	<=20	6.1
2,2-Dichloropropane	T	Average RF			0.6972	<=35	6.1
2-Butanone (MEK)	T	Average RF		0.05	0.1138	<=15	3.4
2-Butanone (MEK)	T	Average RF		0.05	0.1138	<=20	3.4
2-Butanone (MEK)	T	Average RF			0.1138	<=35	3.4
2-Chloro-1,3-butadiene	T	Average RF			0.7116	<=15	6.6
2-Chloro-1,3-butadiene	T	Average RF			0.7116	<=20	6.6
2-Chloro-1,3-butadiene	T	Average RF			0.7116	<=35	6.6
2-Chloroethyl Vinyl Ether	T	Average RF			0.1444	<=15	5.3
2-Chloroethyl Vinyl Ether	T	Average RF			0.1444	<=20	5.3
2-Chloroethyl Vinyl Ether	T	Average RF			0.1444	<=35	5.3
2-Chlorotoluene	T	Average RF			1.904	<=15	10.6
2-Chlorotoluene	T	Average RF			1.904	<=20	10.6
2-Chlorotoluene	T	Average RF			1.904	<=35	10.6
2-Hexanone	T	Average RF		0.05	0.1335	<=15	5.2
2-Hexanone	T	Average RF		0.05	0.1335	<=20	5.2
2-Hexanone	T	Average RF			0.1335	<=35	5.2
2-Methyl-1,3-dioxolane	T	Average RF			0.02012	<=35	10.6
2-Methyl-1-propanol	T	Average RF			0.006541	<=15	10.8
2-Methyl-1-propanol	T	Average RF			0.006541	<=20	10.8
2-Methyl-1-propanol	T	Average RF			0.006541	<=35	10.8
2-Methyl-2-propanol	T	Average RF			0.02106	<=15	5.7
2-Methyl-2-propanol	T	Average RF			0.02106	<=20	5.7
2-Methyl-2-propanol	T	Average RF			0.02106	<=35	5.7
2-Nitropropane	T	Average RF			0.03761	<=15	6.0
2-Nitropropane	T	Average RF			0.03761	<=20	6.0
2-Nitropropane	T	Average RF			0.03761	<=35	6.0
2-Propanol	T	Average RF			0.01359	<=15	6.0
2-Propanol	T	Average RF			0.01359	<=20	6.0
2-Propanol	T	Average RF			0.01359	<=35	6.0
3-Chloro-1-propene	T	Average RF			0.2856	<=15	8.5

Initial Calibration - Summary Report

Calibration ID:	RC1600073	**Instrument ID:**	R-MS-06
		Column Name:	1

Analyte	Type	Curve Fit	Weighting	Min RF	Mean RF	Criteria	Result
3-Chloro-1-propene	T	Average RF			0.2856	<=20	8.5
3-Chloro-1-propene	T	Average RF			0.2856	<=35	8.5
4-Chlorotoluene	T	Average RF			2.001	[illegible]	[illegible]
4-Chlorotoluene	T	Average RF			2.001	<=20	8.4
4-Chlorotoluene	T	Average RF			2.001	<=35	8.4
4-Isopropyltoluene	T	Average RF			2.278	<=15	8.8
4-Isopropyltoluene	T	Average RF			2.278	<=20	8.8
4-Isopropyltoluene	T	Average RF			2.278	<=35	8.8
4-Methyl-2-pentanone	T	Average RF		0.05	0.1581	<=15	9.3
4-Methyl-2-pentanone	T	Average RF		0.05	0.1581	<=20	9.3
4-Methyl-2-pentanone	T	Average RF			0.1581	<=35	9.3
Acetone	T	Average RF		0.05	0.06995	<=15	5.2
Acetone	T	Average RF		0.05	0.06995	<=20	5.2
Acetone	T	Average RF			0.06995	<=35	5.2
Acetonitrile	T	Average RF			0.03323	<=15	8.4
Acetonitrile	T	Average RF			0.03323	<=20	8.4
Acetonitrile	T	Average RF			0.03323	<=35	8.4
Acrolein	T	Average RF			0.04683	<=15	4.1
Acrolein	T	Average RF			0.04683	<=20	4.1
Acrolein	T	Average RF			0.04683	<=35	4.1
Acrylonitrile	T	Average RF			0.1059	<=15	8.0
Acrylonitrile	T	Average RF			0.1059	<=20	8.0
Acrylonitrile	T	Average RF			0.1059	<=35	8.0
Amyl Acetate	T	Average RF			0.4449	<=35	2.9
Benzene	T	Average RF		0.500	1.254	<=15	8.8
Benzene	T	Average RF		0.500	1.254	<=20	8.8
Benzene	T	Average RF			1.254	<=35	8.8
Bromobenzene	T	Average RF			0.8057	<=15	8.9
Bromobenzene	T	Average RF			0.8057	<=20	8.9
Bromobenzene	T	Average RF			0.8057	<=35	8.9
Bromochloromethane	T	Average RF			0.2256	<=15	9.8
Bromochloromethane	T	Average RF			0.2256	<=20	9.8
Bromodichloromethane	T	Average RF		0.200	0.4085	<=15	4.9
Bromodichloromethane	T	Average RF		0.200	0.4085	<=20	4.9
Bromodichloromethane	T	Average RF			0.4085	<=35	4.9
Bromoform	T	Average RF		0.100	0.1744	<=15	10.4
Bromoform	T	Average RF		0.100	0.1744	<=20	10.4
Bromoform	T	Average RF			0.1744	<=35	10.4
Bromomethane	T	Average RF		0.100	0.3604	<=15	7.1
Bromomethane	T	Average RF		0.100	0.3604	<=20	7.1
Bromomethane	T	Average RF			0.3604	<=35	7.1
Carbon Disulfide	T	Average RF		0.100	1.615	<=15	12.3
Carbon Disulfide	T	Average RF		0.100	1.615	<=20	12.3
Carbon Disulfide	T	Average RF			1.615	<=35	12.3
Carbon Tetrachloride	T	Average RF		0.05	0.4117	<=15	5.9
Carbon Tetrachloride	T	Average RF		0.05	0.4117	<=20	5.9
Carbon Tetrachloride	T	Average RF			0.4117	<=35	5.9
Chlorobenzene	T	Average RF		0.500	0.9641	<=15	7.9
Chlorobenzene	T	Average RF		0.500	0.9641	<=20	7.9
Chlorobenzene	T	Average RF			0.9641	<=35	7.9
Chloroethane	T	Average RF		0.100	0.4104	<=15	10.0
Chloroethane	T	Average RF		0.100	0.4104	<=20	10.0

Initial Calibration - Summary Report

Calibration ID:	RC1600073	**Instrument ID:**	R-MS-06
		Column Name:	1

Analyte	Type	Curve Fit	Weighting	Min RF	Mean RF	Criteria	Result
Chloroethane	T	Average RF			0.4104	<=35	10.0
Chloroform	T	Average RF		0.200	0.8555	<=15	8.9
Chloroform	T	Average RF		0.200	0.8555	<=20	8.9
Chloroform	T	Average RF			0.8555	<=35	8.9
Chloromethane	T	Average RF		0.100	0.7335	<=15	10.2
Chloromethane	T	Average RF		0.100	0.7335	<=20	10.2
Chloromethane	T	Average RF			0.7335	<=35	10.2
Cyclohexane	T	Average RF		0.100	0.5080	<=15	3.4
Cyclohexane	T	Average RF		0.100	0.5080	<=20	3.4
Cyclohexane	T	Average RF			0.5080	<=35	3.4
Cyclohexanone	T	Average RF			0.005674	<=15	10.4
Cyclohexanone	T	Average RF			0.005674	<=20	10.4
Cyclohexanone	T	Average RF			0.005674	<=35	10.4
Dibromochloromethane	T	Average RF		0.100	0.3146	<=15	6.1
Dibromochloromethane	T	Average RF		0.100	0.3146	<=20	6.1
Dibromochloromethane	T	Average RF			0.3146	<=35	6.1
Dibromomethane	T	Average RF			0.1553	<=15	8.7
Dibromomethane	T	Average RF			0.1553	<=20	8.7
Dibromomethane	T	Average RF			0.1553	<=35	8.7
Dichlorodifluoromethane (CFC 12)	T	Average RF		0.100	0.7174	<=15	10.1
Dichlorodifluoromethane (CFC 12)	T	Average RF		0.100	0.7174	<=20	10.1
Dichlorodifluoromethane (CFC 12)	T	Average RF			0.7174	<=35	10.1
Dichlorofluoromethane (CFC 21)	T	Average RF			0.9096	<=15	10.8
Dichlorofluoromethane (CFC 21)	T	Average RF			0.9096	<=20	10.8
Dichlorofluoromethane (CFC 21)	T	Average RF			0.9096	<=35	10.8
Dichloromethane	T	Average RF		0.100	0.5259	<=15	9.3
Dichloromethane	T	Average RF		0.100	0.5259	<=20	9.3
Dichloromethane	T	Average RF			0.5259	<=35	9.3
Diethyl Ether	T	Average RF			0.3307	<=15	10.6
Diethyl Ether	T	Average RF			0.3307	<=20	10.6
Diethyl Ether	T	Average RF			0.3307	<=35	10.6
Epichlorohydrin	T	Average RF			0.01621	<=15	6.7
Epichlorohydrin	T	Average RF			0.01621	<=20	6.7
Epichlorohydrin	T	Average RF			0.01621	<=35	6.7
Ethyl Acetate	T	Average RF			0.2328	<=15	15.6
Ethyl Acetate	T	Average RF			0.2328	<=20	15.6
Ethyl Acetate	T	Average RF			0.2328	<=35	15.6
Ethyl Methacrylate	T	Average RF			0.2987	<=15	8.6
Ethyl Methacrylate	T	Average RF			0.2987	<=20	8.6
Ethyl Methacrylate	T	Average RF			0.2987	<=35	8.6
Ethylbenzene	T	Average RF		0.100	0.5232	<=15	9.4
Ethylbenzene	T	Average RF		0.100	0.5232	<=20	9.4
Ethylbenzene	T	Average RF			0.5232	<=35	9.4
Hexachlorobutadiene	T	Average RF			0.4317	<=15	13.2
Hexachlorobutadiene	T	Average RF			0.4317	<=20	13.2
Hexachlorobutadiene	T	Average RF			0.4317	<=35	13.2
Iodomethane	T	Linear	1/X		0.5458	>=0.99	0.9957
Isopropyl Acetate	T	Average RF			0.3561	<=15	12.6
Isopropyl Acetate	T	Average RF			0.3561	<=20	12.6
Isopropyl Acetate	T	Average RF			0.3561	<=35	12.6
Isopropylbenzene (Cumene)	T	Average RF		0.100	1.572	<=15	13.4
Isopropylbenzene (Cumene)	T	Average RF		0.100	1.572	<=20	13.4

Initial Calibration - Summary Report

Calibration ID:	RC1600073	**Instrument ID:**	R-MS-06
		Column Name:	1

Analyte	Type	Curve Fit	Weighting	Min RF	Mean RF	Criteria	Result
Isopropylbenzene (Cumene)	T	Average RF			1.572	<=35	13.4
Methacrylonitrile	T	Average RF			0.1130	<=15	2.5
Methacrylonitrile	T	Average RF			0.1130	<=20	2.5
Methacrylonitrile	T	Average RF			0.1130	<=35	2.5
Methyl Acetate	T	Average RF		0.100	0.2205	<=15	6.4
Methyl Acetate	T	Average RF		0.100	0.2205	<=20	6.4
Methyl Acetate	T	Average RF			0.2205	<=35	6.4
Methyl Methacrylate	T	Average RF			0.1288	<=15	9.1
Methyl Methacrylate	T	Average RF			0.1288	<=20	9.1
Methyl Methacrylate	T	Average RF			0.1288	<=35	9.1
Methyl tert-Butyl Ether	T	Average RF		0.100	0.9520	<=15	6.0
Methyl tert-Butyl Ether	T	Average RF		0.100	0.9520	<=20	6.0
Methyl tert-Butyl Ether	T	Average RF			0.9520	<=35	6.0
Methylcyclohexane	T	Average RF		0.100	0.3674	<=15	5.3
Methylcyclohexane	T	Average RF		0.100	0.3674	<=20	5.3
Methylcyclohexane	T	Average RF			0.3674	<=35	5.3
Naphthalene	T	Average RF			1.394	<=15	6.1
Naphthalene	T	Average RF			1.394	<=20	6.1
Naphthalene	T	Average RF			1.394	<=35	6.1
Nitrobenzene	T	Average RF			0.01369	<=15	21.6
Nitrobenzene	T	Average RF			0.01369	<=20	21.6
Propionitrile	T	Average RF			0.03332	<=15	9.6
Propionitrile	T	Average RF			0.03332	<=20	9.6
Propionitrile	T	Average RF			0.03332	<=35	9.6
Styrene	T	Average RF		0.300	0.9479	<=15	7.7
Styrene	T	Average RF		0.300	0.9479	<=20	7.7
Styrene	T	Average RF			0.9479	<=35	7.7
Tetrachloroethene (PCE)	T	Average RF		0.200	0.3280	<=15	5.8
Tetrachloroethene (PCE)	T	Average RF		0.200	0.3280	<=20	5.8
Tetrachloroethene (PCE)	T	Average RF			0.3280	<=35	5.8
Tetrahydrofuran (THF)	T	Average RF			0.07510	<=15	6.4
Tetrahydrofuran (THF)	T	Average RF			0.07510	<=20	6.4
Tetrahydrofuran (THF)	T	Average RF			0.07510	<=35	6.4
Toluene	T	Average RF		0.400	1.295	<=15	10.9
Toluene	T	Average RF		0.400	1.295	<=20	10.9
Toluene	T	Average RF			1.295	<=35	10.9
Trichloroethene (TCE)	T	Average RF		0.200	0.3309	<=15	5.1
Trichloroethene (TCE)	T	Average RF		0.200	0.3309	<=20	5.1
Trichloroethene (TCE)	T	Average RF			0.3309	<=35	5.1
Trichlorofluoromethane (CFC 11)	T	Average RF		0.100	0.7551	<=15	7.5
Trichlorofluoromethane (CFC 11)	T	Average RF		0.100	0.7551	<=20	7.5
Trichlorofluoromethane (CFC 11)	T	Average RF			0.7551	<=35	7.5
Vinyl Acetate	T	Average RF			0.6788	<=15	10.1
Vinyl Acetate	T	Average RF			0.6788	<=20	10.1
Vinyl Acetate	T	Average RF			0.6788	<=35	10.1
Vinyl Chloride	T	Average RF		0.100	0.8466	<=15	9.5
Vinyl Chloride	T	Average RF		0.100	0.8466	<=20	9.5
Vinyl Chloride	T	Average RF			0.8466	<=35	9.5
cis-1,2-Dichloroethene	T	Average RF		0.100	0.5218	<=15	6.2
cis-1,2-Dichloroethene	T	Average RF		0.100	0.5218	<=20	6.2
cis-1,2-Dichloroethene	T	Average RF			0.5218	<=35	6.2
cis-1,3-Dichloropropene	T	Average RF		0.200	0.4562	<=15	8.3

Initial Calibration - Summary Report

Calibration ID:	RC1600073	**Instrument ID:**	R-MS-06
		Column Name:	1

Analyte	Type	Curve Fit	Weighting	Min RF	Mean RF	Criteria	Result
cis-1,3-Dichloropropene	T	Average RF		0.200	0.4562	<=20	8.3
cis-1,3-Dichloropropene	T	Average RF			0.4562	<=35	8.3
m,p-Xylenes	T	Average RF		0.100	0.6163	<=15	8.8
m,p-Xylenes	T	Average RF		0.100	0.6163	<=20	8.8
m,p-Xylenes	T	Average RF			0.6163	<=35	8.8
n-Butyl Acetate	T	Average RF			0.3335	<=15	10.2
n-Butyl Acetate	T	Average RF			0.3335	<=20	10.2
n-Butyl Acetate	T	Average RF			0.3335	<=35	10.2
n-Butylbenzene	T	Average RF			2.081	<=15	11.1
n-Butylbenzene	T	Average RF			2.081	<=20	11.1
n-Butylbenzene	T	Average RF			2.081	<=35	11.1
n-Heptane	T	Average RF			0.3792	<=15	8.2
n-Heptane	T	Average RF			0.3792	<=20	8.2
n-Heptane	T	Average RF			0.3792	<=35	8.2
n-Propyl Acetate	T	Linear	Equal		0.2421	>=0.99	0.9993
n-Propylbenzene	T	Average RF			3.115	<=15	13.0
n-Propylbenzene	T	Average RF			3.115	<=20	13.0
n-Propylbenzene	T	Average RF			3.115	<=35	13.0
o-Xylene	T	Average RF		0.300	0.5967	<=15	7.1
o-Xylene	T	Average RF		0.300	0.5967	<=20	7.1
o-Xylene	T	Average RF			0.5967	<=35	7.1
sec-Butylbenzene	T	Average RF			2.634	<=15	10.3
sec-Butylbenzene	T	Average RF			2.634	<=20	10.3
sec-Butylbenzene	T	Average RF			2.634	<=35	10.3
tert-Butylbenzene	T	Average RF			1.814	<=15	7.4
tert-Butylbenzene	T	Average RF			1.814	<=20	7.4
tert-Butylbenzene	T	Average RF			1.814	<=35	7.4
trans-1,2-Dichloroethene	T	Average RF		0.100	0.5111	<=15	9.5
trans-1,2-Dichloroethene	T	Average RF		0.100	0.5111	<=20	9.5
trans-1,2-Dichloroethene	T	Average RF			0.5111	<=35	9.5
trans-1,3-Dichloropropene	T	Average RF		0.100	0.3628	<=15	8.0
trans-1,3-Dichloropropene	T	Average RF		0.100	0.3628	<=20	8.0
trans-1,3-Dichloropropene	T	Average RF			0.3628	<=35	8.0
trans-1,4-Dichloro-2-butene	T	Average RF			0.09937	<=15	8.4
trans-1,4-Dichloro-2-butene	T	Average RF			0.09937	<=20	8.4
trans-1,4-Dichloro-2-butene	T	Average RF			0.09937	<=35	8.4
1,2-Dichloroethane-d4	S	Average RF			0.2876	<=15	2.9
1,2-Dichloroethane-d4	S	Average RF			0.2876	<=20	2.9
1,2-Dichloroethane-d4	S	Average RF			0.2876	<=35	2.9
4-Bromofluorobenzene	S	Average RF			0.4804	<=15	5.6
4-Bromofluorobenzene	S	Average RF			0.4804	<=20	5.6
4-Bromofluorobenzene	S	Average RF			0.4804	<=35	5.6
Dibromofluoromethane	S	Average RF			0.3220	<=15	2.4
Dibromofluoromethane	S	Average RF			0.3220	<=20	2.4
Dibromofluoromethane	S	Average RF			0.3220	<=35	2.4
Toluene-d8	S	Average RF			1.006	<=15	10.0
Toluene-d8	S	Average RF			1.006	<=20	10.0
Toluene-d8	S	Average RF			1.006	<=35	10.0

Initial Calibration - Summary Report

Exceptions

QAP	Method
LAB QAP	8260C

Compound	Type	Criteria	Result
Ethyl Acetate	RSD	<= 15	15.6
Nitrobenzene	RSD	<= 20	21.6
Nitrobenzene	RSD	<= 15	21.6

Exceptions

QAP	Method
DOD QSM v5.0 Rochester	8260C

Compound	Type	Criteria	Result
Ethyl Acetate	RSD	<= 15	15.6
Nitrobenzene	RSD	<= 15	21.6

Initial Calibration - Detailed Report

Calibration ID:	RC1600073	**Instrument ID:**	R-MS-06
		Signal ID:	1

#	Lab Code	Sample Name	File Location	Acquisition Date
02	RC1600073-02	STD #9 - 200 PPB	I:\ACQUDATA\MSVOA6\DATA\071416\D0297.D	7/14/16 17:57
03	RC1600073-03	STD #8 - 150 PPB	I:\ACQUDATA\MSVOA6\DATA\071416\D0296.D	7/14/16 17:20
04	RC1600073-04	STD #7 - 100 PPB	I:\ACQUDATA\MSVOA6\DATA\071416\D0295.D	7/14/16 16:46
05	RC1600073-05	STD #6 - 50 PPB	I:\ACQUDATA\MSVOA6\DATA\071416\D0294.D	7/14/16 16:15
06	RC1600073-06	STD #5 - 20 PPB	I:\ACQUDATA\MSVOA6\DATA\071416\D0293.D	7/14/16 15:44
07	RC1600073-07	STD #4 - 5.0 PPB	I:\ACQUDATA\MSVOA6\DATA\071416\D0292.D	7/14/16 15:12
08	RC1600073-08	STD #3 - 2.0 PPB	I:\ACQUDATA\MSVOA6\DATA\071416\D0291.D	7/14/16 14:34
09	RC1600073-09	STD #2 - 1.0 PPB	I:\ACQUDATA\MSVOA6\DATA\071416\D0290.D	7/14/16 14:02
10	RC1600073-10	STD #1 - 0.5 PPB	I:\ACQUDATA\MSVOA6\DATA\071416\D0289.D	7/14/16 13:27

Analyte	Curve Fit	Weighting		
1,1,1,2-Tetrachloroethane	Average RF		RSD = 5.6	Average RF = 0.3344

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
10	0.500	0.3563	09	1.000	0.3495	08	2.000	0.3081	07	5.000	0.3160
06	20.000	0.3601	05	50.000	0.3417	04	100.000	0.3197	03	150.000	0.3364
02	200.000	0.3222									

1,1,1-Trichloroethane (TCA)	Average RF		RSD = 5.4	Average RF = 0.6848

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
10	0.500	0.6559	09	1.000	0.6833	08	2.000	0.7282	07	5.000	0.6851
06	20.000	0.7507	05	50.000	0.7004	04	100.000	0.6703	03	150.000	0.6505
02	200.000	0.6387									

1,1,2,2-Tetrachloroethane	Average RF		RSD = 6.6	Average RF = 0.5082

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
10	0.500	0.5179	09	1.000	0.5810	08	2.000	0.4816	07	5.000	0.5138
06	20.000	0.5232	05	50.000	0.5168	04	100.000	0.4854	03	150.000	0.4856
02	200.000	0.4681									

1,1,2-Trichloroethane	Average RF		RSD = 5.6	Average RF = 0.2123

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
10	0.500	0.2170	09	1.000	0.2177	08	2.000	0.2290	07	5.000	0.1984
06	20.000	0.2268	05	50.000	0.2181	04	100.000	0.2046	03	150.000	0.1982
02	200.000	0.2012									

1,1,2-Trichlorotrifluoroethane	Average RF		RSD = 6.8	Average RF = 0.5063

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
10	0.500	0.4958	09	1.000	0.5449	08	2.000	0.5037	07	5.000	0.4951
06	20.000	0.5689	05	50.000	0.5259	04	100.000	0.4886	03	150.000	0.4711
02	200.000	0.4626									

1,1-Dichloroethane (1,1-DCA)	Average RF		RSD = 7.4	Average RF = 0.7973

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
10	0.500	0.8100	09	1.000	0.8222	08	2.000	0.7939	07	5.000	0.8077
06	20.000	0.9026	05	50.000	0.8420	04	100.000	0.7625	03	150.000	0.7301
02	200.000	0.7051									

1,1-Dichloroethene (1,1-DCE)	Average RF		RSD = 8.0	Average RF = 0.4845

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
10	0.500	0.5388	09	1.000	0.5277	08	2.000	0.4749	07	5.000	0.4746
06	20.000	0.5021	05	50.000	0.4880	04	100.000	0.4453	03	150.000	0.4244

Initial Calibration - Detailed Report

Calibration ID:	RC1600073	**Instrument ID:**	R-MS-06
		Signal ID:	1

Analyte	**Curve Fit**	**Weighting**									
1,1-Dichloropropene	Average RF			RSD = 5.9			Average RF = 0.4305				
#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
10	0.500	0.4666	09	1.000	0.4543	08	2.000	0.4120	07	5.000	0.4184
06	20.000	0.4600	05	50.000	0.4427	04	100.000	0.4085	03	150.000	0.4071
02	200.000	0.4043									
1,2,3-Trichlorobenzene	Average RF			RSD = 6.5			Average RF = 0.6772				
#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
10	0.500	0.7429	09	1.000	0.7064	08	2.000	0.6725	07	5.000	0.6744
06	20.000	0.7131	05	50.000	0.7001	04	100.000	0.6510	03	150.000	0.6348
02	200.000	0.5998									
1,2,3-Trichloropropane	Average RF			RSD = 7.2			Average RF = 0.3476				
#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
10	0.500	0.3210	09	1.000	0.4033	08	2.000	0.3595	07	5.000	0.3435
06	20.000	0.3560	05	50.000	0.3513	04	100.000	0.3398	03	150.000	0.3283
02	200.000	0.3255									
1,2,4-Trichlorobenzene	Average RF			RSD = 7.6			Average RF = 0.8797				
#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
10	0.500	0.9209	09	1.000	0.9917	08	2.000	0.8469	07	5.000	0.8141
06	20.000	0.9049	05	50.000	0.8807	04	100.000	0.7987			
1,2,4-Trimethylbenzene	Average RF			RSD = 9.1			Average RF = 2.269				
#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
10	0.500	2.387	09	1.000	2.421	08	2.000	2.250	07	5.000	2.355
06	20.000	2.436	05	50.000	2.182	04	100.000	1.850			
1,2-Dibromo-3-chloropropane (DBCP)	Average RF			RSD = 6.3			Average RF = 0.07844				
#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
09	1.000	0.07594	08	2.000	0.08832	07	5.000	0.08053	06	20.000	0.08237
05	50.000	0.07537	04	100.000	0.07487	03	150.000	0.07582	02	200.000	0.07433
1,2-Dibromoethane	Average RF			RSD = 6.6			Average RF = 0.2620				
#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
10	0.500	0.2971	09	1.000	0.2578	08	2.000	0.2650	07	5.000	0.2574
06	20.000	0.2775	05	50.000	0.2638	04	100.000	0.2484	03	150.000	0.2529
02	200.000	0.2377									
1,2-Dichloro-1,1,2-trifluoroethane (CFC	Average RF			RSD = 8.9			Average RF = 0.6088				
#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
10	0.500	0.6162	09	1.000	0.6934	08	2.000	0.6872	07	5.000	0.5992
06	20.000	0.5783	05	50.000	0.5753	04	100.000	0.5704	03	150.000	0.5505
1,2-Dichlorobenzene	Average RF			RSD = 6.4			Average RF = 1.339				
#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
10	0.500	1.334	09	1.000	1.364	08	2.000	1.429	07	5.000	1.378
06	20.000	1.406	05	50.000	1.291	04	100.000	1.174			
1,2-Dichloroethane	Average RF			RSD = 10.5			Average RF = 0.1097				
#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
10	0.500	0.1354	09	1.000	0.1214	08	2.000	0.1073	07	5.000	0.1087
06	20.000	0.1053	05	50.000	0.1051	04	100.000	0.1031	03	150.000	0.1005
02	200.000	0.1007									

Initial Calibration - Detailed Report

Calibration ID:	RC1600073	**Instrument ID:**	R-MS-06
		Signal ID:	1

Analyte	**Curve Fit**	**Weighting**									
1,2-Dichloroethane-d4	Average RF			RSD = 2.9			Average RF = 0.2876				
#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
05	50.000	0.2959	08	60.000	0.2952	07	70.000	0.2940	06	100.000	0.2824
04	125.000	0.2762	03	150.000	0.2818						
1,2-Dichloropropane	Average RF			RSD = 6.5			Average RF = 0.3221				
#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
10	0.500	0.3406	09	1.000	0.2983	08	2.000	0.3331	07	5.000	0.3225
06	20.000	0.3548	05	50.000	0.3387	04	100.000	0.3089	03	150.000	0.3045
02	200.000	0.2976									
1,3,5-Trimethylbenzene	Average RF			RSD = 10.4			Average RF = 2.192				
#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
10	0.500	2.451	09	1.000	2.385	08	2.000	2.121	07	5.000	2.222
06	20.000	2.334	05	50.000	2.030	04	100.000	1.800			
1,3-Dichlorobenzene	Average RF			RSD = 6.7			Average RF = 1.451				
#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
10	0.500	1.526	09	1.000	1.404	08	2.000	1.430	07	5.000	1.517
06	20.000	1.567	05	50.000	1.437	04	100.000	1.274			
1,3-Dichloropropane	Average RF			RSD = 7.4			Average RF = 0.3963				
#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
10	0.500	0.3742	09	1.000	0.3967	08	2.000	0.3731	07	5.000	0.3992
06	20.000	0.4577	05	50.000	0.4217	04	100.000	0.3896	03	150.000	0.3949
02	200.000	0.3596									
1,4-Dichlorobenzene	Average RF			RSD = 7.8			Average RF = 1.480				
#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
10	0.500	1.574	09	1.000	1.467	08	2.000	1.564	07	5.000	1.544
06	20.000	1.524	05	50.000	1.443	04	100.000	1.243			
1,4-Dioxane	Average RF			RSD = 7.7			Average RF = 0.001438				
#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
08	40.000	0.001474	07	100.000	0.001632	06	400.000	0.001367	05	1000.000	0.001525
04	2000.000	0.001327	03	3000.000	0.001375	02	4000.000	0.001363			
2,2-Dichloro-1,1,1-trifluoroethane (CFC	Average RF			RSD = 8.1			Average RF = 0.7611				
#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
10	0.500	0.8109	09	1.000	0.8666	08	2.000	0.7817	07	5.000	0.7401
06	20.000	0.7240	05	50.000	0.7051	04	100.000	0.6992			
2,2-Dichloropropane	Average RF			RSD = 6.1			Average RF = 0.6972				
#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
10	0.500	0.7452	09	1.000	0.7432	08	2.000	0.6581	07	5.000	0.6922
06	20.000	0.7474	05	50.000	0.7202	04	100.000	0.6714	03	150.000	0.6532
02	200.000	0.6436									
2-Butanone (MEK)	Average RF			RSD = 3.4			Average RF = 0.1138				
#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
07	5.000	0.1096	06	20.000	0.1160	05	50.000	0.1087	04	100.000	0.1179
03	150.000	0.1169	02	200.000	0.1135						

Initial Calibration - Detailed Report

Calibration ID:	RC1600073	**Instrument ID:**	R-MS-06
		Signal ID:	1

Analyte	**Curve Fit**	**Weighting**

2-Chloro-1,3-butadiene — Average RF — RSD = 6.6 — Average RF = 0.7116

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
10	0.500	0.7988	09	1.000	0.7536	08	2.000	0.7105	07	5.000	0.6990
06	20.000	0.7329	05	50.000	0.6893	04	100.000	0.7089	03	150.000	0.6732
02	200.000	0.6379									

2-Chloroethyl Vinyl Ether — Average RF — RSD = 5.3 — Average RF = 0.1444

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
09	1.000	0.1507	08	2.000	0.1267	07	5.000	0.1486	06	20.000	0.1472
05	50.000	0.1475	04	100.000	0.1474	03	150.000	0.1458	02	200.000	0.1416

2-Chlorotoluene — Average RF — RSD = 10.6 — Average RF = 1.904

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
10	0.500	2.136	09	1.000	2.089	08	2.000	1.941	07	5.000	1.948
06	20.000	1.913	05	50.000	1.765	04	100.000	1.539			

2-Hexanone — Average RF — RSD = 5.2 — Average RF = 0.1335

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
07	5.000	0.1308	06	20.000	0.1358	05	50.000	0.1211	04	100.000	0.1365
03	150.000	0.1415	02	200.000	0.1353						

2-Methyl-1,3-dioxolane — Average RF — RSD = 10.6 — Average RF = 0.02012

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
09	5.000	0.01889	08	10.000	0.01619	07	25.000	0.01921	06	100.000	0.01935
05	250.000	0.02117	04	500.000	0.02136	03	750.000	0.02279	02	1000.000	0.02199

2-Methyl-1-propanol — Average RF — RSD = 10.8 — Average RF = 0.006541

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
08	40.000	0.004976	07	100.000	0.006993	06	400.000	0.006944	05	1000.000	0.006844
04	2000.000	0.006792	03	3000.000	0.006607	02	4000.000	0.006627			

2-Methyl-2-propanol — Average RF — RSD = 5.7 — Average RF = 0.02106

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
10	10.000	0.01884	09	20.000	0.02205	08	40.000	0.02183	07	100.000	0.02103
06	400.000	0.02236	05	1000.000	0.02223	04	2000.000	0.02094	03	3000.000	0.02051
02	4000.000	0.01979									

2-Nitropropane — Average RF — RSD = 6.0 — Average RF = 0.03761

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
08	4.000	0.03920	07	10.000	0.03786	06	40.000	0.03945	05	100.000	0.03329
04	200.000	0.03815	03	300.000	0.03932	02	400.000	0.03601			

2-Propanol — Average RF — RSD = 6.0 — Average RF = 0.01359

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
09	20.000	0.01468	08	40.000	0.01469	07	100.000	0.01370	06	400.000	0.01381
05	1000.000	0.01341	04	2000.000	0.01315	03	3000.000	0.01288	02	4000.000	0.01238

3-Chloro-1-propene — Average RF — RSD = 8.5 — Average RF = 0.2856

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
10	0.500	0.2555	09	1.000	0.3082	08	2.000	0.2999	07	5.000	0.2781
06	20.000	0.3183	05	50.000	0.3007	04	100.000	0.2939	03	150.000	0.2675
02	200.000	0.2483									

Initial Calibration - Detailed Report

Calibration ID:	RC1600073	**Instrument ID:**	R-MS-06
		Signal ID:	1

Analyte	**Curve Fit**	**Weighting**

4-Bromofluorobenzene — Average RF — RSD = 5.6 — Average RF = 0.4804

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
05	50.000	0.5230	08	60.000	0.4894	07	70.000	0.4706	06	100.000	0.4498
04	125.000	0.4567	03	150.000	0.4926						

4-Chlorotoluene — Average RF — RSD = 8.4 — Average RF = 2.001

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
10	0.500	2.119	09	1.000	2.138	08	2.000	1.998	07	5.000	2.096
06	20.000	2.060	05	50.000	1.945	04	100.000	1.652			

4-Isopropyltoluene — Average RF — RSD = 8.8 — Average RF = 2.278

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
10	0.500	2.346	09	1.000	2.310	08	2.000	2.354	07	5.000	2.413
06	20.000	2.429	05	50.000	2.249	04	100.000	1.843			

4-Methyl-2-pentanone — Average RF — RSD = 9.3 — Average RF = 0.1581

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
07	5.000	0.1302	06	20.000	0.1533	05	50.000	0.1638	04	100.000	0.1689
03	150.000	0.1678	02	200.000	0.1647						

Acetone — Average RF — RSD = 5.2 — Average RF = 0.06995

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
07	5.000	0.06644	06	20.000	0.07255	05	50.000	0.07167	04	100.000	0.07501
03	150.000	0.06728	02	200.000	0.06676						

Acetonitrile — Average RF — RSD = 8.4 — Average RF = 0.03323

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
09	5.000	0.03809	08	10.000	0.03440	07	25.000	0.03166	06	100.000	0.03355
05	250.000	0.03134	04	500.000	0.03037						

Acrolein — Average RF — RSD = 4.1 — Average RF = 0.04683

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
10	2.500	0.04607	09	5.000	0.04640	08	10.000	0.05092	07	25.000	0.04660
06	100.000	0.04799	05	250.000	0.04768	04	500.000	0.04636	03	750.000	0.04565
02	1000.000	0.04383									

Acrylonitrile — Average RF — RSD = 8.0 — Average RF = 0.1059

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
10	2.500	0.1061	09	5.000	0.1030	08	10.000	0.1120	07	25.000	0.1111
06	100.000	0.1180	05	250.000	0.1128	04	500.000	0.1023	03	750.000	0.09653
02	1000.000	0.09137									

Amyl Acetate — Average RF — RSD = 2.9 — Average RF = 0.4449

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
09	1.000	0.4369	08	2.000	0.4447	07	5.000	0.4283	06	20.000	0.4471
05	50.000	0.4636	04	100.000	0.4588	03	150.000	0.4496	02	200.000	0.4301

Benzene — Average RF — RSD = 8.8 — Average RF = 1.254

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
10	0.500	1.231	09	1.000	1.397	08	2.000	1.253	07	5.000	1.304
06	20.000	1.362	05	50.000	1.276	04	100.000	1.148	03	150.000	1.058

Bromobenzene — Average RF — RSD = 8.9 — Average RF = 0.8057

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
10	0.500	0.9279	09	1.000	0.7536	08	2.000	0.8727	07	5.000	0.7931
06	20.000	0.7981	05	50.000	0.7782	04	100.000	0.7163			

Initial Calibration - Detailed Report

Calibration ID:	RC1600073	**Instrument ID:**	R-MS-06
		Signal ID:	1

Analyte	**Curve Fit**	**Weighting**		
Bromochloromethane	Average RF		RSD = 9.8	Average RF = 0.2256

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
10	0.500	0.2358	09	1.000	0.2665	08	2.000	0.2225	07	5.000	0.2227
06	20.000	0.2382	05	50.000	0.2382	04	100.000	0.2108	03	150.000	0.2004
02	200.000	0.1950									

Bromodichloromethane	Average RF		RSD = 4.9	Average RF = 0.4085

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
10	0.500	0.4315	09	1.000	0.4333	08	2.000	0.4126	07	5.000	0.4004
06	20.000	0.4230	05	50.000	0.4193	04	100.000	0.3897	03	150.000	0.3863
02	200.000	0.3806									

Bromoform	Average RF		RSD = 10.4	Average RF = 0.1744

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
10	0.500	0.1528	09	1.000	0.1623	08	2.000	0.1473	07	5.000	0.1661
06	20.000	0.1813	05	50.000	0.1810	04	100.000	0.1842	03	150.000	0.1983
02	200.000	0.1963									

Bromomethane	Average RF		RSD = 7.1	Average RF = 0.3604

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
10	0.500	0.3184	09	1.000	0.3755	08	2.000	0.3331	07	5.000	0.3350
06	20.000	0.3627	05	50.000	0.3807	04	100.000	0.3912	03	150.000	0.3804
02	200.000	0.3664									

Carbon Disulfide	Average RF		RSD = 12.3	Average RF = 1.615

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
10	0.500	1.940	09	1.000	1.613	08	2.000	1.708	07	5.000	1.655
06	20.000	1.643	05	50.000	1.409	04	100.000	1.337			

Carbon Tetrachloride	Average RF		RSD = 5.9	Average RF = 0.4117

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
10	0.500	0.4664	09	1.000	0.4238	08	2.000	0.3958	07	5.000	0.3982
06	20.000	0.4270	05	50.000	0.4121	04	100.000	0.3933	03	150.000	0.3945
02	200.000	0.3942									

Chlorobenzene	Average RF		RSD = 7.9	Average RF = 0.9641

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
10	0.500	1.024	09	1.000	1.022	08	2.000	0.9264	07	5.000	0.9740
06	20.000	1.037	05	50.000	0.9464	04	100.000	0.8192			

Chloroethane	Average RF		RSD = 10.0	Average RF = 0.4104

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
10	0.500	0.4797	09	1.000	0.4273	08	2.000	0.4018	07	5.000	0.4028
06	20.000	0.4467	05	50.000	0.4031	04	100.000	0.3754	03	150.000	0.3465

Chloroform	Average RF		RSD = 8.9	Average RF = 0.8555

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
10	0.500	0.9858	09	1.000	0.8901	08	2.000	0.8436	07	5.000	0.8910
06	20.000	0.9183	05	50.000	0.8556	04	100.000	0.8062	03	150.000	0.7590
02	200.000	0.7502									

Chloromethane	Average RF		RSD = 10.2	Average RF = 0.7335

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
10	0.500	0.8296	09	1.000	0.8004	08	2.000	0.7454	07	5.000	0.7139
06	20.000	0.7534	05	50.000	0.6904	04	100.000	0.6016			

Initial Calibration - Detailed Report

Calibration ID:	RC1600073	**Instrument ID:**	R-MS-06
		Signal ID:	1

Analyte	**Curve Fit**	**Weighting**

Cyclohexane — Average RF — RSD = 3.4 — Average RF = 0.5080

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
10	0.500	0.4808	09	1.000	0.5354	08	2.000	0.5270	07	5.000	0.5177
06	20.000	0.4933	05	50.000	0.5117	04	100.000	0.5100	03	150.000	0.5024
02	200.000	0.4937									

Cyclohexanone — Average RF — RSD = 10.4 — Average RF = 0.005674

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
09	20.000	0.004879	08	40.000	0.004888	07	100.000	0.005393	06	400.000	0.006443
05	1000.000	0.006289	04	2000.000	0.005705	03	3000.000	0.006012	02	4000.000	0.005786

Dibromochloromethane — Average RF — RSD = 6.1 — Average RF = 0.3146

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
10	0.500	0.2919	09	1.000	0.3077	08	2.000	0.2926	07	5.000	0.3154
06	20.000	0.3466	05	50.000	0.3416	04	100.000	0.3117	03	150.000	0.3200
02	200.000	0.3039									

Dibromofluoromethane — Average RF — RSD = 2.4 — Average RF = 0.3220

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
05	50.000	0.3334	08	60.000	0.3286	07	70.000	0.3218	06	100.000	0.3139
04	125.000	0.3163	03	150.000	0.3177						

Dibromomethane — Average RF — RSD = 8.7 — Average RF = 0.1553

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
10	0.500	0.1792	09	1.000	0.1364	08	2.000	0.1367	07	5.000	0.1630
06	20.000	0.1657	05	50.000	0.1556	04	100.000	0.1564	03	150.000	0.1508
02	200.000	0.1538									

Dichlorodifluoromethane (CFC 12) — Average RF — RSD = 10.1 — Average RF = 0.7174

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
10	0.500	0.8091	09	1.000	0.6641	08	2.000	0.7233	07	5.000	0.7569
06	20.000	0.7739	05	50.000	0.7002	04	100.000	0.5946			

Dichlorofluoromethane (CFC 21) — Average RF — RSD = 10.8 — Average RF = 0.9096

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
09	1.000	1.038	08	2.000	0.9376	07	5.000	0.9883	06	20.000	0.8876
05	50.000	0.8309	04	100.000	0.7747						

Dichloromethane — Average RF — RSD = 9.3 — Average RF = 0.5259

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
10	0.500	0.5127	09	1.000	0.6049	08	2.000	0.5460	07	5.000	0.5396
06	20.000	0.5642	05	50.000	0.5145	04	100.000	0.4692	03	150.000	0.4557

Diethyl Ether — Average RF — RSD = 10.6 — Average RF = 0.3307

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
10	0.500	0.4050	09	1.000	0.3357	08	2.000	0.3459	07	5.000	0.3244
06	20.000	0.3445	05	50.000	0.3333	04	100.000	0.3052	03	150.000	0.2947
02	200.000	0.2871									

Epichlorohydrin — Average RF — RSD = 6.7 — Average RF = 0.01621

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
09	5.000	0.01753	08	10.000	0.01549	07	25.000	0.01426	06	100.000	0.01532
05	250.000	0.01706	04	500.000	0.01677	03	750.000	0.01672	02	1000.000	0.01652

Initial Calibration - Detailed Report

Calibration ID:	RC1600073	**Instrument ID:**	R-MS-06
		Signal ID:	1

Analyte	**Curve Fit**	**Weighting**		
Ethyl Acetate	Average RF		RSD = 15.6	Average RF = 0.2328

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
09	2.000	0.1712	08	4.000	0.2027	07	10.000	0.2168	06	40.000	0.2527
05	100.000	0.2627	04	200.000	0.2641	03	300.000	0.2595			

Ethyl Methacrylate	Average RF		RSD = 8.6	Average RF = 0.2987

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
10	0.500	0.2703	09	1.000	0.2971	08	2.000	0.2671	07	5.000	0.2838
06	20.000	0.3434	05	50.000	0.3308	04	100.000	0.2996	03	150.000	0.3078
02	200.000	0.2887									

Ethylbenzene	Average RF		RSD = 9.4	Average RF = 0.5232

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
10	0.500	0.5327	09	1.000	0.6125	08	2.000	0.5017	07	5.000	0.4928
06	20.000	0.5716	05	50.000	0.5284	04	100.000	0.4677	03	150.000	0.4785

Hexachlorobutadiene	Average RF		RSD = 13.2	Average RF = 0.4317

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
10	0.500	0.5612	09	1.000	0.3776	08	2.000	0.3850	07	5.000	0.4499
06	20.000	0.4385	05	50.000	0.4531	04	100.000	0.4330	03	150.000	0.4055
02	200.000	0.3819									

Iodomethane	Linear	1/X	R2 = 0.9957	Y = 0.6096 X + -0.01129

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
08	2.000	0.2900	07	5.000	0.4384	06	20.000	0.6159	05	50.000	0.6475
04	100.000	0.6562	03	150.000	0.6044	02	200.000	0.5678			

Isopropyl Acetate	Average RF		RSD = 12.6	Average RF = 0.3561

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
08	2.000	0.2702	07	5.000	0.3232	06	20.000	0.3579	05	50.000	0.3957
04	100.000	0.3869	03	150.000	0.3826	02	200.000	0.3763			

Isopropylbenzene (Cumene)	Average RF		RSD = 13.4	Average RF = 1.572

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
10	0.500	1.882	09	1.000	1.651	08	2.000	1.599	07	5.000	1.606
06	20.000	1.619	05	50.000	1.457	04	100.000	1.190			

Methacrylonitrile	Average RF		RSD = 2.5	Average RF = 0.1130

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
09	1.000	0.1089	08	2.000	0.1115	07	5.000	0.1103	06	20.000	0.1158
05	50.000	0.1174	04	100.000	0.1139	03	150.000	0.1128	02	200.000	0.1138

Methyl Acetate	Average RF		RSD = 6.4	Average RF = 0.2205

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
09	1.000	0.2477	08	2.000	0.2176	07	5.000	0.2369	06	20.000	0.2162
05	50.000	0.2092	04	100.000	0.2166	03	150.000	0.2112	02	200.000	0.2083

Methyl Methacrylate	Average RF		RSD = 9.1	Average RF = 0.1288

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
09	1.000	0.1147	08	2.000	0.1131	07	5.000	0.1176	06	20.000	0.1426
05	50.000	0.1398	04	100.000	0.1350	03	150.000	0.1326	02	200.000	0.1348

Methyl tert-Butyl Ether	Average RF		RSD = 6.0	Average RF = 0.9520

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
10	0.500	0.9785	09	1.000	0.9394	08	2.000	0.9706	07	5.000	0.9597
06	20.000	1.040	05	50.000	0.9812	04	100.000	0.8921	03	150.000	0.8545

Initial Calibration - Detailed Report

Calibration ID:	RC1600073	**Instrument ID:**	R-MS-06
		Signal ID:	1

Analyte	**Curve Fit**	**Weighting**

Methylcyclohexane — Average RF — RSD = 5.3 — Average RF = 0.3674

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
10	0.500	0.3948	09	1.000	0.4012	08	2.000	0.3584	07	5.000	0.3655
06	20.000	0.3594	05	50.000	0.3636	04	100.000	0.3643	03	150.000	0.3617
02	200.000	0.3377									

Naphthalene — Average RF — RSD = 6.1 — Average RF = 1.394

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
10	0.500	1.430	09	1.000	1.357	08	2.000	1.417	07	5.000	1.435
06	20.000	1.484	05	50.000	1.417	04	100.000	1.220			

Nitrobenzene — Average RF — RSD = 21.6 — Average RF = 0.01369

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
07	10.000	0.01230	06	40.000	0.01054	05	100.000	0.01090	04	200.000	0.01441
03	300.000	0.01609	02	400.000	0.01789						

Propionitrile — Average RF — RSD = 9.6 — Average RF = 0.03332

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
09	5.000	0.02672	08	10.000	0.03143	07	25.000	0.03363	06	100.000	0.03663
05	250.000	0.03700	04	500.000	0.03377	03	750.000	0.03371	02	1000.000	0.03366

Styrene — Average RF — RSD = 7.7 — Average RF = 0.9479

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
10	0.500	0.8788	09	1.000	0.9563	08	2.000	0.9296	07	5.000	0.9820
06	20.000	1.077	05	50.000	0.9590	04	100.000	0.8524			

Tetrachloroethene (PCE) — Average RF — RSD = 5.8 — Average RF = 0.3280

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
10	0.500	0.3620	09	1.000	0.3354	08	2.000	0.3201	07	5.000	0.3328
06	20.000	0.3461	05	50.000	0.3324	04	100.000	0.3059	03	150.000	0.3139
02	200.000	0.3033									

Tetrahydrofuran (THF) — Average RF — RSD = 6.4 — Average RF = 0.07510

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
08	2.000	0.07908	07	5.000	0.07822	06	20.000	0.08202	05	50.000	0.07440
04	100.000	0.07237	03	150.000	0.07018	02	200.000	0.06943			

Toluene — Average RF — RSD = 10.9 — Average RF = 1.295

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
10	0.500	1.340	09	1.000	1.437	08	2.000	1.321	07	5.000	1.334
06	20.000	1.404	05	50.000	1.215	04	100.000	1.016			

Toluene-d8 — Average RF — RSD = 10.0 — Average RF = 1.006

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
05	50.000	1.122	08	60.000	1.081	07	70.000	1.066	06	100.000	0.9856
04	125.000	0.9051	03	150.000	0.8751						

Trichloroethene (TCE) — Average RF — RSD = 5.1 — Average RF = 0.3309

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
10	0.500	0.3227	09	1.000	0.3186	08	2.000	0.3160	07	5.000	0.3323
06	20.000	0.3645	05	50.000	0.3532	04	100.000	0.3281	03	150.000	0.3261
02	200.000	0.3165									

Initial Calibration - Detailed Report

Calibration ID:	RC1600073	**Instrument ID:**	R-MS-06
		Signal ID:	1

Analyte	**Curve Fit**	**Weighting**		
Trichlorofluoromethane (CFC 11)	Average RF		RSD = 7.5	Average RF = 0.7551

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
10	0.500	0.8121	09	1.000	0.7940	08	2.000	0.7093	07	5.000	0.7471
06	20.000	0.8125	05	50.000	0.7495	04	100.000	0.6610			

Vinyl Acetate	Average RF	RSD = 10.1	Average RF = 0.6788

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
09	1.000	0.6315	08	2.000	0.5384	07	5.000	0.6898	06	20.000	0.7532
05	50.000	0.7340	04	100.000	0.7224	03	150.000	0.6988	02	200.000	0.6625

Vinyl Chloride	Average RF	RSD = 9.5	Average RF = 0.8466

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
10	0.500	0.9310	09	1.000	0.9074	08	2.000	0.8147	07	5.000	0.8340
06	20.000	0.9197	05	50.000	0.8154	04	100.000	0.7043			

cis-1,2-Dichloroethene	Average RF	RSD = 6.2	Average RF = 0.5218

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
10	0.500	0.5578	09	1.000	0.5329	08	2.000	0.5367	07	5.000	0.5284
06	20.000	0.5653	05	50.000	0.5243	04	100.000	0.4962	03	150.000	0.4847
02	200.000	0.4697									

cis-1,3-Dichloropropene	Average RF	RSD = 8.3	Average RF = 0.4562

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
10	0.500	0.4226	09	1.000	0.4355	08	2.000	0.4409	07	5.000	0.4999
06	20.000	0.5164	05	50.000	0.4979	04	100.000	0.4463	03	150.000	0.4282
02	200.000	0.4178									

m,p-Xylenes	Average RF	RSD = 8.8	Average RF = 0.6163

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
10	1.000	0.6386	09	2.000	0.6806	08	4.000	0.5823	07	10.000	0.6394
06	40.000	0.6582	05	100.000	0.5952	04	200.000	0.5198			

n-Butyl Acetate	Average RF	RSD = 10.2	Average RF = 0.3335

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
09	1.000	0.2705	08	2.000	0.2930	07	5.000	0.3451	06	20.000	0.3657
05	50.000	0.3616	04	100.000	0.3433	03	150.000	0.3537	02	200.000	0.3349

n-Butylbenzene	Average RF	RSD = 11.1	Average RF = 2.081

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
10	0.500	2.401	09	1.000	1.952	08	2.000	1.971	07	5.000	2.180
06	20.000	2.274	05	50.000	2.084	04	100.000	1.706			

n-Heptane	Average RF	RSD = 8.2	Average RF = 0.3792

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
10	0.500	0.3276	09	1.000	0.3524	08	2.000	0.3766	07	5.000	0.4164
06	20.000	0.4165	05	50.000	0.4125	04	100.000	0.3781	03	150.000	0.3734
02	200.000	0.3592									

n-Propyl Acetate	Linear	Equal	R2 = 0.9993	Y = 0.2672 X + 0.002022

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
08	2.000	0.1309	07	5.000	0.2095	06	20.000	0.2592	05	50.000	0.2879
04	100.000	0.2733	03	150.000	0.2687	02	200.000	0.2650			

Initial Calibration - Detailed Report

Calibration ID:	RC1600073	**Instrument ID:**	R-MS-06
		Signal ID:	1

Analyte	**Curve Fit**	**Weighting**									
n-Propylbenzene	Average RF					RSD = 13.0		Average RF = 3.115			
#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
10	0.500	3.255	09	1.000	3.392	08	2.000	3.221	07	5.000	3.347
06	20.000	3.410	05	50.000	2.892	04	100.000	2.288			
o-Xylene	Average RF					RSD = 7.1		Average RF = 0.5967			
#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
10	0.500	0.6107	09	1.000	0.6513	08	2.000	0.5845	07	5.000	0.6044
06	20.000	0.6500	05	50.000	0.6170	04	100.000	0.5703	03	150.000	0.5629
02	200.000	0.5196									
sec-Butylbenzene	Average RF					RSD = 10.3		Average RF = 2.634			
#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
10	0.500	2.816	09	1.000	2.671	08	2.000	2.770	07	5.000	2.762
06	20.000	2.841	05	50.000	2.496	04	100.000	2.080			
tert-Butylbenzene	Average RF					RSD = 7.4		Average RF = 1.814			
#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
10	0.500	1.927	09	1.000	1.936	08	2.000	1.853	07	5.000	1.836
06	20.000	1.855	05	50.000	1.745	04	100.000	1.544			
trans-1,2-Dichloroethene	Average RF					RSD = 9.5		Average RF = 0.5111			
#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
10	0.500	0.6017	09	1.000	0.5422	08	2.000	0.4624	07	5.000	0.4909
06	20.000	0.5381	05	50.000	0.5143	04	100.000	0.4836	03	150.000	0.4553
trans-1,3-Dichloropropene	Average RF					RSD = 8.0		Average RF = 0.3628			
#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
10	0.500	0.4061	09	1.000	0.3291	08	2.000	0.3458	07	5.000	0.3820
06	20.000	0.3993	05	50.000	0.3769	04	100.000	0.3509	03	150.000	0.3433
02	200.000	0.3316									
trans-1,4-Dichloro-2-butene	Average RF					RSD = 8.4		Average RF = 0.09937			
#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
09	1.000	0.09364	08	2.000	0.08811	07	5.000	0.08998	06	20.000	0.09676
05	50.000	0.1046	04	100.000	0.1041	03	150.000	0.1091	02	200.000	0.1088

Initial Calibration - Detailed Report

Calibration ID:	RC1600073	**Instrument ID:**	R-MS-06
		Signal ID:	1

Analyte

1,1,1,2-Tetrachloroethane

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
10	0.500	0.53	6.5	09	1.000	1.05	4.5	08	2.000	1.84	-7.9
07	5.000	4.72	-5.5	06	20.000	21.53	7.7	05	50.000	51.08	2.2
04	100.000	95.58	-4.4	03	150.000	150.87	0.6	02	200.000	192.71	-3.6

1,1,1-Trichloroethane (TCA)

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
10	0.500	0.48	-4.2	09	1.000	1.00	-0.2	08	2.000	2.13	6.3
07	5.000	5.00	0.0	06	20.000	21.92	9.6	05	50.000	51.14	2.3
04	100.000	97.88	-2.1	03	150.000	142.49	-5.0	02	200.000	186.55	-6.7

1,1,2,2-Tetrachloroethane

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
10	0.500	0.51	1.9	09	1.000	1.14	14.3	08	2.000	1.90	-5.2
07	5.000	5.06	1.1	06	20.000	20.59	3.0	05	50.000	50.85	1.7
04	100.000	95.51	-4.5	03	150.000	143.33	-4.4	02	200.000	184.25	-7.9

1,1,2-Trichloroethane

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
10	0.500	0.51	2.2	09	1.000	1.03	2.5	08	2.000	2.16	7.9
07	5.000	4.67	-6.6	06	20.000	21.36	6.8	05	50.000	51.37	2.7
04	100.000	96.35	-3.6	03	150.000	140.04	-6.6	02	200.000	189.47	-5.3

1,1,2-Trichlorotrifluoroethane

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
10	0.500	0.49	-2.1	09	1.000	1.08	7.6	08	2.000	1.99	-0.5
07	5.000	4.89	-2.2	06	20.000	22.47	12.4	05	50.000	51.94	3.9
04	100.000	96.50	-3.5	03	150.000	139.59	-6.9	02	200.000	182.75	-8.6

1,1-Dichloroethane (1,1-DCA)

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
10	0.500	0.51	1.6	09	1.000	1.03	3.1	08	2.000	1.99	-0.4
07	5.000	5.07	1.3	06	20.000	22.64	13.2	05	50.000	52.80	5.6
04	100.000	95.63	-4.4	03	150.000	137.36	-8.4	02	200.000	176.87	-11.6

1,1-Dichloroethene (1,1-DCE)

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
10	0.500	0.56	11.2	09	1.000	1.09	8.9	08	2.000	1.96	-2.0
07	5.000	4.90	-2.0	06	20.000	20.73	3.6	05	50.000	50.37	0.7
04	100.000	91.91	-8.1	03	150.000	131.40	-12.4				

1,1-Dichloropropene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
10	0.500	0.54	8.4	09	1.000	1.06	5.5	08	2.000	1.91	-4.3
07	5.000	4.86	-2.8	06	20.000	21.37	6.9	05	50.000	51.42	2.8
04	100.000	94.91	-5.1	03	150.000	141.86	-5.4	02	200.000	187.86	-6.1

Initial Calibration - Detailed Report

Calibration ID:	RC1600073	**Instrument ID:**	R-MS-06
		Signal ID:	1

Analyte

1,2,3-Trichlorobenzene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
10	0.500	0.55	9.7	09	1.000	1.04	4.3	08	2.000	1.99	-0.7
07	5.000	4.98	-0.4	06	20.000	21.06	5.3	05	50.000	51.69	3.4
04	100.000	96.12	-3.9	03	150.000	140.60	-6.3	02	200.000	177.14	-11.4

1,2,3-Trichloropropane

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
10	0.500	0.46	-7.6	09	1.000	1.16	16.0	08	2.000	2.07	3.4
07	5.000	4.94	-1.2	06	20.000	20.48	2.4	05	50.000	50.53	1.1
04	100.000	97.76	-2.2	03	150.000	141.69	-5.5	02	200.000	187.31	-6.3

1,2,4-Trichlorobenzene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
10	0.500	0.52	4.7	09	1.000	1.13	12.7	08	2.000	1.93	-3.7
07	5.000	4.63	-7.5	06	20.000	20.57	2.9	05	50.000	50.06	0.1
04	100.000	90.79	-9.2								

1,2,4-Trimethylbenzene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
10	0.500	0.53	5.2	09	1.000	1.07	6.7	08	2.000	1.98	-0.8
07	5.000	5.19	3.8	06	20.000	21.47	7.4	05	50.000	48.08	-3.8
04	100.000	81.54	-18.5								

1,2-Dibromo-3-chloropropane (DBCP)

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
09	1.000	0.97	-3.2	08	2.000	2.25	12.6	07	5.000	5.13	2.7
06	20.000	21.00	5.0	05	50.000	48.04	-3.9	04	100.000	95.44	-4.6
03	150.000	144.99	-3.3	02	200.000	189.51	-5.2				

1,2-Dibromoethane

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
10	0.500	0.57	13.4	09	1.000	0.98	-1.6	08	2.000	2.02	1.2
07	5.000	4.91	-1.8	06	20.000	21.19	5.9	05	50.000	50.35	0.7
04	100.000	94.83	-5.2	03	150.000	144.80	-3.5	02	200.000	181.50	-9.2

1,2-Dichloro-1,1,2-trifluoroethane (CFC

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
10	0.500	0.51	1.2	09	1.000	1.14	13.9	08	2.000	2.26	12.9
07	5.000	4.92	-1.6	06	20.000	19.00	-5.0	05	50.000	47.24	-5.5
04	100.000	93.69	-6.3	03	150.000	135.63	-9.6				

1,2-Dichlorobenzene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
10	0.500	0.50	-0.4	09	1.000	1.02	1.8	08	2.000	2.13	6.7
07	5.000	5.15	2.9	06	20.000	21.00	5.0	05	50.000	48.19	-3.6
04	100.000	87.68	-12.3								

Initial Calibration - Detailed Report

Calibration ID:	RC1600073	**Instrument ID:**	R-MS-06
		Signal ID:	1

Analyte

1,2-Dichloroethane

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
10	0.500	0.62	23.4	09	1.000	1.11	10.7	08	2.000	1.96	-2.2
07	5.000	4.95	-1.0	06	20.000	19.19	-4.0	05	50.000	47.89	-4.2
04	100.000	94.00	-6.0	03	150.000	137.45	-8.4	02	200.000	183.47	-8.3

1,2-Dichloroethane-d4

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
05	50.000	51.45	2.9	08	60.000	61.59	2.7	07	70.000	71.57	2.2
06	100.000	98.18	-1.8	04	125.000	120.06	-4.0	03	150.000	146.97	-2.0

1,2-Dichloropropane

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
10	0.500	0.53	5.7	09	1.000	0.93	-7.4	08	2.000	2.07	3.4
07	5.000	5.01	0.1	06	20.000	22.03	10.2	05	50.000	52.57	5.1
04	100.000	95.91	-4.1	03	150.000	141.80	-5.5	02	200.000	184.76	-7.6

1,3,5-Trimethylbenzene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
10	0.500	0.56	11.8	09	1.000	1.09	8.8	08	2.000	1.94	-3.2
07	5.000	5.07	1.4	06	20.000	21.30	6.5	05	50.000	46.30	-7.4
04	100.000	82.14	-17.9								

1,3-Dichlorobenzene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
10	0.500	0.53	5.2	09	1.000	0.97	-3.2	08	2.000	1.97	-1.4
07	5.000	5.23	4.5	06	20.000	21.60	8.0	05	50.000	49.53	-0.9
04	100.000	87.85	-12.2								

1,3-Dichloropropane

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
10	0.500	0.47	-5.6	09	1.000	1.00	0.1	08	2.000	1.88	-5.9
07	5.000	5.04	0.7	06	20.000	23.10	15.5	05	50.000	53.21	6.4
04	100.000	98.32	-1.7	03	150.000	149.47	-0.4	02	200.000	181.48	-9.3

1,4-Dichlorobenzene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
10	0.500	0.53	6.4	09	1.000	0.99	-0.9	08	2.000	2.11	5.7
07	5.000	5.22	4.3	06	20.000	20.60	3.0	05	50.000	48.76	-2.5
04	100.000	84.00	-16.0								

1,4-Dioxane

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
08	40.000	41.02	2.6	07	100.000	113.50	13.5	06	400.000	380.25	-4.9
05	1000.000	1,060.65	6.1	04	2000.000	1,846.53	-7.7	03	3000.000	2,869.92	-4.3
02	4000.000	3,793.18	-5.2								

Initial Calibration - Detailed Report

Calibration ID:	RC1600073	**Instrument ID:**	R-MS-06
		Signal ID:	1

Analyte

2,2-Dichloro-1,1,1-trifluoroethane (CFC

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
10	0.500	0.53	6.5	09	1.000	1.14	13.9	08	2.000	2.05	2.7
07	5.000	4.86	-2.8	06	20.000	19.03	-4.9	05	50.000	46.32	-7.4
04	100.000	91.87	-8.1								

2,2-Dichloropropane

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
10	0.500	0.53	6.9	09	1.000	1.07	6.6	08	2.000	1.89	-5.6
07	5.000	4.96	-0.7	06	20.000	21.44	7.2	05	50.000	51.65	3.3
04	100.000	96.31	-3.7	03	150.000	140.54	-6.3	02	200.000	184.64	-7.7

2-Butanone (MEK)

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
07	5.000	4.82	-3.6	06	20.000	20.39	1.9	05	50.000	47.78	-4.4
04	100.000	103.64	3.6	03	150.000	154.07	2.7	02	200.000	199.53	-0.2

2-Chloro-1,3-butadiene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
10	0.500	0.56	12.3	09	1.000	1.06	5.9	08	2.000	2.00	-0.1
07	5.000	4.91	-1.8	06	20.000	20.60	3.0	05	50.000	48.44	-3.1
04	100.000	99.62	-0.4	03	150.000	141.91	-5.4	02	200.000	179.30	-10.4

2-Chloroethyl Vinyl Ether

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
09	1.000	1.04	4.4	08	2.000	1.75	-12.3	07	5.000	5.14	2.9
06	20.000	20.38	1.9	05	50.000	51.07	2.1	04	100.000	102.08	2.1
03	150.000	151.38	0.9	02	200.000	196.08	-2.0				

2-Chlorotoluene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
10	0.500	0.56	12.1	09	1.000	1.10	9.7	08	2.000	2.04	1.9
07	5.000	5.11	2.3	06	20.000	20.09	0.5	05	50.000	46.33	-7.3
04	100.000	80.84	-19.2								

2-Hexanone

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
07	5.000	4.90	-2.0	06	20.000	20.34	1.7	05	50.000	45.36	-9.3
04	100.000	102.24	2.2	03	150.000	159.00	6.0	02	200.000	202.69	1.3

2-Methyl-1,3-dioxolane

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
09	5.000	4.69	-6.1	08	10.000	8.05	-19.5	07	25.000	23.87	-4.5
06	100.000	96.17	-3.8	05	250.000	263.09	5.2	04	500.000	530.85	6.2
03	750.000	849.52	13.3	02	1000.000	1,093.02	9.3				

Initial Calibration - Detailed Report

Calibration ID:	RC1600073	**Instrument ID:**	R-MS-06
		Signal ID:	1

Analyte

2-Methyl-1-propanol

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
08	40.000	30.43	-23.9	07	100.000	106.92	6.9	06	400.000	424.66	6.2
05	1000.000	1,046.42	4.6	04	2000.000	2,076.90	3.8	03	3000.000	3,030.56	1.0
02	4000.000	4,053.05	1.3								

2-Methyl-2-propanol

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
10	10.000	8.94	-10.6	09	20.000	20.93	4.7	08	40.000	41.45	3.6
07	100.000	99.85	-0.1	06	400.000	424.61	6.2	05	1000.000	1,055.31	5.5
04	2000.000	1,988.20	-0.6	03	3000.000	2,921.16	-2.6	02	4000.000	3,757.80	-6.1

2-Nitropropane

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
08	4.000	4.17	4.2	07	10.000	10.07	0.7	06	40.000	41.96	4.9
05	100.000	88.51	-11.5	04	200.000	202.85	1.4	03	300.000	313.65	4.6
02	400.000	382.95	-4.3								

2-Propanol

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
09	20.000	21.61	8.1	08	40.000	43.23	8.1	07	100.000	100.82	0.8
06	400.000	406.61	1.7	05	1000.000	986.81	-1.3	04	2000.000	1,935.30	-3.2
03	3000.000	2,844.09	-5.2	02	4000.000	3,645.55	-8.9				

3-Chloro-1-propene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
10	0.500	0.45	-10.5	09	1.000	1.08	7.9	08	2.000	2.10	5.0
07	5.000	4.87	-2.6	06	20.000	22.29	11.4	05	50.000	52.64	5.3
04	100.000	102.90	2.9	03	150.000	140.53	-6.3	02	200.000	173.89	-13.1

4-Bromofluorobenzene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
05	50.000	54.44	8.9	08	60.000	61.13	1.9	07	70.000	68.58	-2.0
06	100.000	93.64	-6.4	04	125.000	118.84	-4.9	03	150.000	153.82	2.5

4-Chlorotoluene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
10	0.500	0.53	5.9	09	1.000	1.07	6.9	08	2.000	2.00	-0.1
07	5.000	5.24	4.7	06	20.000	20.59	2.9	05	50.000	48.60	-2.8
04	100.000	82.54	-17.5								

4-Isopropyltoluene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
10	0.500	0.52	3.0	09	1.000	1.01	1.4	08	2.000	2.07	3.4
07	5.000	5.30	5.9	06	20.000	21.33	6.7	05	50.000	49.37	-1.3
04	100.000	80.90	-19.1								

Initial Calibration - Detailed Report

Calibration ID:	RC1600073	**Instrument ID:**	R-MS-06
		Signal ID:	1

Analyte

4-Methyl-2-pentanone

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
07	5.000	4.12	-17.7	06	20.000	19.39	-3.1	05	50.000	51.80	3.6
04	100.000	106.82	6.8	03	150.000	159.21	6.1	02	200.000	208.35	4.2

Acetone

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
07	5.000	4.75	-5.0	06	20.000	20.74	3.7	05	50.000	51.23	2.5
04	100.000	107.23	7.2	03	150.000	144.27	-3.8	02	200.000	190.87	-4.6

Acetonitrile

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
09	5.000	5.73	14.6	08	10.000	10.35	3.5	07	25.000	23.82	-4.7
06	100.000	100.94	0.9	05	250.000	235.72	-5.7	04	500.000	456.93	-8.6

Acrolein

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
10	2.500	2.46	-1.6	09	5.000	4.95	-0.9	08	10.000	10.87	8.7
07	25.000	24.88	-0.5	06	100.000	102.47	2.5	05	250.000	254.51	1.8
04	500.000	494.95	-1.0	03	750.000	731.13	-2.5	02	1000.000	935.82	-6.4

Acrylonitrile

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
10	2.500	2.50	0.2	09	5.000	4.86	-2.8	08	10.000	10.58	5.8
07	25.000	26.22	4.9	06	100.000	111.43	11.4	05	250.000	266.30	6.5
04	500.000	482.82	-3.4	03	750.000	683.57	-8.9	02	1000.000	862.74	-13.7

Amyl Acetate

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
09	1.000	0.98	-1.8	08	2.000	2.00	0.0	07	5.000	4.81	-3.7
06	20.000	20.10	0.5	05	50.000	52.10	4.2	04	100.000	103.12	3.1
03	150.000	151.58	1.1	02	200.000	193.37	-3.3				

Benzene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
10	0.500	0.49	-1.8	09	1.000	1.11	11.4	08	2.000	2.00	-0.1
07	5.000	5.20	4.0	06	20.000	21.73	8.7	05	50.000	50.88	1.8
04	100.000	91.54	-8.5	03	150.000	126.66	-15.6				

Bromobenzene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
10	0.500	0.58	15.2	09	1.000	0.94	-6.5	08	2.000	2.17	8.3
07	5.000	4.92	-1.6	06	20.000	19.81	-0.9	05	50.000	48.30	-3.4
04	100.000	88.90	-11.1								

Initial Calibration - Detailed Report

Calibration ID:	RC1600073	**Instrument ID:**	R-MS-06
		Signal ID:	1

Analyte

Bromochloromethane

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
10	0.500	0.52	4.5	09	1.000	1.18	18.1	08	2.000	1.97	-1.3
07	5.000	4.94	-1.3	06	20.000	21.12	5.6	05	50.000	52.80	5.6
04	100.000	93.47	-6.5	03	150.000	133.28	-11.1	02	200.000	172.88	-13.6

Bromodichloromethane

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
10	0.500	0.53	5.6	09	1.000	1.06	6.1	08	2.000	2.02	1.0
07	5.000	4.90	-2.0	06	20.000	20.71	3.5	05	50.000	51.32	2.6
04	100.000	95.39	-4.6	03	150.000	141.83	-5.4	02	200.000	186.31	-6.8

Bromoform

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
10	0.500	0.44	-12.4	09	1.000	0.93	-6.9	08	2.000	1.69	-15.5
07	5.000	4.76	-4.7	06	20.000	20.79	3.9	05	50.000	51.89	3.8
04	100.000	105.59	5.6	03	150.000	170.54	13.7	02	200.000	225.07	12.5

Bromomethane

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
10	0.500	0.44	-11.6	09	1.000	1.04	4.2	08	2.000	1.85	-7.6
07	5.000	4.65	-7.0	06	20.000	20.13	0.6	05	50.000	52.82	5.6
04	100.000	108.55	8.5	03	150.000	158.34	5.6	02	200.000	203.35	1.7

Carbon Disulfide

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
10	0.500	0.60	20.2	09	1.000	1.00	-0.1	08	2.000	2.12	5.8
07	5.000	5.12	2.5	06	20.000	20.34	1.7	05	50.000	43.64	-12.7
04	100.000	82.75	-17.2								

Carbon Tetrachloride

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
10	0.500	0.57	13.3	09	1.000	1.03	2.9	08	2.000	1.92	-3.9
07	5.000	4.84	-3.3	06	20.000	20.74	3.7	05	50.000	50.05	0.1
04	100.000	95.54	-4.5	03	150.000	143.75	-4.2	02	200.000	191.48	-4.3

Chlorobenzene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
10	0.500	0.53	6.2	09	1.000	1.06	6.0	08	2.000	1.92	-3.9
07	5.000	5.05	1.0	06	20.000	21.52	7.6	05	50.000	49.08	-1.8
04	100.000	84.97	-15.0								

Chloroethane

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
10	0.500	0.58	16.9	09	1.000	1.04	4.1	08	2.000	1.96	-2.1
07	5.000	4.91	-1.9	06	20.000	21.77	8.8	05	50.000	49.11	-1.8
04	100.000	91.47	-8.5	03	150.000	126.65	-15.6				

Initial Calibration - Detailed Report

Calibration ID:	RC1600073	**Instrument ID:**	R-MS-06
		Signal ID:	1

Analyte

Chloroform

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
10	0.500	0.58	15.2	09	1.000	1.04	4.0	08	2.000	1.97	-1.4
07	5.000	5.21	4.1	06	20.000	21.47	7.3	05	50.000	50.00	0.0
04	100.000	94.23	-5.8	03	150.000	133.07	-11.3	02	200.000	175.38	-12.3

Chloromethane

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
10	0.500	0.57	13.1	09	1.000	1.09	9.1	08	2.000	2.03	1.6
07	5.000	4.87	-2.7	06	20.000	20.54	2.7	05	50.000	47.06	-5.9
04	100.000	82.01	-18.0								

Cyclohexane

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
10	0.500	0.47	-5.3	09	1.000	1.05	5.4	08	2.000	2.07	3.7
07	5.000	5.10	1.9	06	20.000	19.42	-2.9	05	50.000	50.36	0.7
04	100.000	100.40	0.4	03	150.000	148.34	-1.1	02	200.000	194.37	-2.8

Cyclohexanone

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
09	20.000	17.20	-14.0	08	40.000	34.46	-13.9	07	100.000	95.04	-5.0
06	400.000	454.22	13.6	05	1000.000	1,108.29	10.8	04	2000.000	2,010.80	0.5
03	3000.000	3,178.37	5.9	02	4000.000	4,078.97	2.0				

Dibromochloromethane

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
10	0.500	0.46	-7.2	09	1.000	0.98	-2.2	08	2.000	1.86	-7.0
07	5.000	5.01	0.2	06	20.000	22.03	10.2	05	50.000	54.29	8.6
04	100.000	99.08	-0.9	03	150.000	152.60	1.7	02	200.000	193.18	-3.4

Dibromofluoromethane

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
05	50.000	51.78	3.6	08	60.000	61.23	2.0	07	70.000	69.96	-0.1
06	100.000	97.51	-2.5	04	125.000	122.81	-1.8	03	150.000	148.02	-1.3

Dibromomethane

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
10	0.500	0.58	15.4	09	1.000	0.88	-12.2	08	2.000	1.76	-12.0
07	5.000	5.25	4.9	06	20.000	21.35	6.7	05	50.000	50.09	0.2
04	100.000	100.73	0.7	03	150.000	145.64	-2.9	02	200.000	198.11	-0.9

Dichlorodifluoromethane (CFC 12)

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
10	0.500	0.56	12.8	09	1.000	0.93	-7.4	08	2.000	2.02	0.8
07	5.000	5.28	5.5	06	20.000	21.57	7.9	05	50.000	48.80	-2.4
04	100.000	82.88	-17.1								

Initial Calibration - Detailed Report

Calibration ID:	RC1600073	**Instrument ID:**	R-MS-06
		Signal ID:	1

Analyte

Dichlorofluoromethane (CFC 21)

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
09	1.000	1.14	14.1	08	2.000	2.06	3.1	07	5.000	5.43	8.7
06	20.000	19.52	-2.4	05	50.000	45.67	-8.7	04	100.000	85.18	-14.8

Dichloromethane

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
10	0.500	0.49	-2.5	09	1.000	1.15	15.0	08	2.000	2.08	3.8
07	5.000	5.13	2.6	06	20.000	21.46	7.3	05	50.000	48.92	-2.2
04	100.000	89.22	-10.8	03	150.000	130.00	-13.3				

Diethyl Ether

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
10	0.500	0.61	22.5	09	1.000	1.02	1.5	08	2.000	2.09	4.6
07	5.000	4.91	-1.9	06	20.000	20.84	4.2	05	50.000	50.40	0.8
04	100.000	92.32	-7.7	03	150.000	133.68	-10.9	02	200.000	173.68	-13.2

Epichlorohydrin

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
09	5.000	5.41	8.2	08	10.000	9.56	-4.4	07	25.000	22.00	-12.0
06	100.000	94.50	-5.5	05	250.000	263.10	5.2	04	500.000	517.29	3.5
03	750.000	773.70	3.2	02	1000.000	1,019.27	1.9				

Ethyl Acetate

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
09	2.000	1.47	-26.5	08	4.000	3.48	-13.0	07	10.000	9.31	-6.9
06	40.000	43.42	8.6	05	100.000	112.85	12.9	04	200.000	226.89	13.4
03	300.000	334.38	11.5								

Ethyl Methacrylate

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
10	0.500	0.45	-9.5	09	1.000	0.99	-0.5	08	2.000	1.79	-10.6
07	5.000	4.75	-5.0	06	20.000	22.99	15.0	05	50.000	55.36	10.7
04	100.000	100.27	0.3	03	150.000	154.53	3.0	02	200.000	193.31	-3.3

Ethylbenzene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
10	0.500	0.51	1.8	09	1.000	1.17	17.1	08	2.000	1.92	-4.1
07	5.000	4.71	-5.8	06	20.000	21.85	9.2	05	50.000	50.49	1.0
04	100.000	89.39	-10.6	03	150.000	137.16	-8.6				

Hexachlorobutadiene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
10	0.500	0.65	30.0	09	1.000	0.87	-12.5	08	2.000	1.78	-10.8
07	5.000	5.21	4.2	06	20.000	20.31	1.6	05	50.000	52.48	5.0
04	100.000	100.29	0.3	03	150.000	140.87	-6.1	02	200.000	176.90	-11.5

Initial Calibration - Detailed Report

Calibration ID:	RC1600073	**Instrument ID:**	R-MS-06
		Signal ID:	1

Analyte

Iodomethane

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
08	2.000	1.88	-6.1	07	5.000	4.52	-9.6	06	20.000	21.13	5.7
05	50.000	54.04	8.1	04	100.000	108.58	8.6	03	150.000	149.65	-0.2
02	200.000	187.20	-6.4								

Isopropyl Acetate

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
08	2.000	1.52	-24.1	07	5.000	4.54	-9.2	06	20.000	20.10	0.5
05	50.000	55.56	11.1	04	100.000	108.64	8.6	03	150.000	161.16	7.4
02	200.000	211.32	5.7								

Isopropylbenzene (Cumene)

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
10	0.500	0.60	19.7	09	1.000	1.05	5.0	08	2.000	2.03	1.7
07	5.000	5.11	2.2	06	20.000	20.60	3.0	05	50.000	46.34	-7.3
04	100.000	75.68	-24.3								

Methacrylonitrile

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
09	1.000	0.96	-3.7	08	2.000	1.97	-1.4	07	5.000	4.88	-2.4
06	20.000	20.49	2.5	05	50.000	51.91	3.8	04	100.000	100.74	0.7
03	150.000	149.64	-0.2	02	200.000	201.41	0.7				

Methyl Acetate

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
09	1.000	1.12	12.4	08	2.000	1.97	-1.3	07	5.000	5.37	7.4
06	20.000	19.61	-1.9	05	50.000	47.45	-5.1	04	100.000	98.24	-1.8
03	150.000	143.68	-4.2	02	200.000	188.98	-5.5				

Methyl Methacrylate

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
09	1.000	0.89	-10.9	08	2.000	1.76	-12.2	07	5.000	4.57	-8.7
06	20.000	22.15	10.7	05	50.000	54.28	8.6	04	100.000	104.80	4.8
03	150.000	154.46	3.0	02	200.000	209.38	4.7				

Methyl tert-Butyl Ether

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
10	0.500	0.51	2.8	09	1.000	0.99	-1.3	08	2.000	2.04	2.0
07	5.000	5.04	0.8	06	20.000	21.84	9.2	05	50.000	51.54	3.1
04	100.000	93.71	-6.3	03	150.000	134.64	-10.2				

Methylcyclohexane

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
10	0.500	0.54	7.5	09	1.000	1.09	9.2	08	2.000	1.95	-2.4
07	5.000	4.97	-0.5	06	20.000	19.56	-2.2	05	50.000	49.48	-1.0
04	100.000	99.15	-0.9	03	150.000	147.68	-1.5	02	200.000	183.84	-8.1

Initial Calibration - Detailed Report

Calibration ID:	RC1600073	**Instrument ID:**	R-MS-06
		Signal ID:	1

Analyte

Naphthalene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
10	0.500	0.51	2.5	09	1.000	0.97	-2.7	08	2.000	2.03	1.6
07	5.000	5.15	2.9	06	20.000	21.28	6.4	05	50.000	50.82	1.6
04	100.000	87.51	-12.5								

Nitrobenzene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
07	10.000	8.98	-10.2	06	40.000	30.80	-23.0	05	100.000	79.60	-20.4
04	200.000	210.54	5.3	03	300.000	352.66	17.6	02	400.000	522.91	**30.7**

Propionitrile

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
09	5.000	4.01	-19.8	08	10.000	9.43	-5.7	07	25.000	25.23	0.9
06	100.000	109.95	9.9	05	250.000	277.61	11.0	04	500.000	506.82	1.4
03	750.000	758.80	1.2	02	1000.000	1,010.14	1.0				

Styrene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
10	0.500	0.46	-7.3	09	1.000	1.01	0.9	08	2.000	1.96	-1.9
07	5.000	5.18	3.6	06	20.000	22.72	13.6	05	50.000	50.59	1.2
04	100.000	89.93	-10.1								

Tetrachloroethene (PCE)

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
10	0.500	0.55	10.4	09	1.000	1.02	2.3	08	2.000	1.95	-2.4
07	5.000	5.07	1.5	06	20.000	21.10	5.5	05	50.000	50.67	1.3
04	100.000	93.27	-6.7	03	150.000	143.57	-4.3	02	200.000	184.94	-7.5

Tetrahydrofuran (THF)

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
08	2.000	2.11	5.3	07	5.000	5.21	4.1	06	20.000	21.84	9.2
05	50.000	49.53	-0.9	04	100.000	96.37	-3.6	03	150.000	140.18	-6.5
02	200.000	184.90	-7.6								

Toluene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
10	0.500	0.52	3.4	09	1.000	1.11	11.0	08	2.000	2.04	2.0
07	5.000	5.15	3.0	06	20.000	21.68	8.4	05	50.000	46.88	-6.2
04	100.000	78.48	-21.5								

Toluene-d8

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
05	50.000	55.77	11.5	08	60.000	64.47	7.5	07	70.000	74.21	6.0
06	100.000	97.99	-2.0	04	125.000	112.48	-10.0	03	150.000	130.52	-13.0

Initial Calibration - Detailed Report

Calibration ID:	RC1600073	**Instrument ID:**	R-MS-06
		Signal ID:	1

Analyte

Trichloroethene (TCE)

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
10	0.500	0.49	-2.5	09	1.000	0.96	-3.7	08	2.000	1.91	-4.5
07	5.000	5.02	0.4	06	20.000	22.03	10.2	05	50.000	53.38	6.8
04	100.000	99.15	-0.8	03	150.000	147.82	-1.5	02	200.000	191.30	-4.3

Trichlorofluoromethane (CFC 11)

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
10	0.500	0.54	7.5	09	1.000	1.05	5.2	08	2.000	1.88	-6.1
07	5.000	4.95	-1.1	06	20.000	21.52	7.6	05	50.000	49.63	-0.7
04	100.000	87.54	-12.5								

Vinyl Acetate

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
09	1.000	0.93	-7.0	08	2.000	1.59	-20.7	07	5.000	5.08	1.6
06	20.000	22.19	11.0	05	50.000	54.06	8.1	04	100.000	106.42	6.4
03	150.000	154.41	2.9	02	200.000	195.19	-2.4				

Vinyl Chloride

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
10	0.500	0.55	10.0	09	1.000	1.07	7.2	08	2.000	1.92	-3.8
07	5.000	4.93	-1.5	06	20.000	21.73	8.6	05	50.000	48.16	-3.7
04	100.000	83.18	-16.8								

cis-1,2-Dichloroethene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
10	0.500	0.53	6.9	09	1.000	1.02	2.1	08	2.000	2.06	2.9
07	5.000	5.06	1.3	06	20.000	21.67	8.3	05	50.000	50.24	0.5
04	100.000	95.10	-4.9	03	150.000	139.33	-7.1	02	200.000	180.05	-10.0

cis-1,3-Dichloropropene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
10	0.500	0.46	-7.4	09	1.000	0.95	-4.5	08	2.000	1.93	-3.3
07	5.000	5.48	9.6	06	20.000	22.64	13.2	05	50.000	54.57	9.1
04	100.000	97.83	-2.2	03	150.000	140.80	-6.1	02	200.000	183.19	-8.4

m,p-Xylenes

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
10	1.000	1.04	3.6	09	2.000	2.21	10.4	08	4.000	3.78	-5.5
07	10.000	10.37	3.7	06	40.000	42.72	6.8	05	100.000	96.58	-3.4
04	200.000	168.67	-15.7								

n-Butyl Acetate

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
09	1.000	0.81	-18.9	08	2.000	1.76	-12.1	07	5.000	5.17	3.5
06	20.000	21.93	9.7	05	50.000	54.21	8.4	04	100.000	102.95	3.0
03	150.000	159.09	6.1	02	200.000	200.83	0.4				

Initial Calibration - Detailed Report

Calibration ID:	RC1600073	**Instrument ID:**	R-MS-06
		Signal ID:	1

Analyte

n-Butylbenzene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
10	0.500	0.58	15.4	09	1.000	0.94	-6.2	08	2.000	1.89	-5.3
07	5.000	5.24	4.8	06	20.000	21.85	9.3	05	50.000	50.07	0.1
04	100.000	81.97	-18.0								

n-Heptane

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
10	0.500	0.43	-13.6	09	1.000	0.93	-7.1	08	2.000	1.99	-0.7
07	5.000	5.49	9.8	06	20.000	21.97	9.8	05	50.000	54.39	8.8
04	100.000	99.71	-0.3	03	150.000	147.72	-1.5	02	200.000	189.47	-5.3

n-Propyl Acetate

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
08	2.000	0.60	-69.9	07	5.000	3.54	-29.2	06	20.000	19.02	-4.9
05	50.000	53.50	7.0	04	100.000	101.90	1.9	03	150.000	150.47	0.3
02	200.000	197.97	-1.0								

n-Propylbenzene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
10	0.500	0.52	4.5	09	1.000	1.09	8.9	08	2.000	2.07	3.4
07	5.000	5.37	7.4	06	20.000	21.89	9.5	05	50.000	46.42	-7.2
04	100.000	73.46	-26.5								

o-Xylene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
10	0.500	0.51	2.3	09	1.000	1.09	9.1	08	2.000	1.96	-2.0
07	5.000	5.06	1.3	06	20.000	21.79	8.9	05	50.000	51.70	3.4
04	100.000	95.56	-4.4	03	150.000	141.49	-5.7	02	200.000	174.13	-12.9

sec-Butylbenzene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
10	0.500	0.53	6.9	09	1.000	1.01	1.4	08	2.000	2.10	5.2
07	5.000	5.24	4.9	06	20.000	21.58	7.9	05	50.000	47.38	-5.2
04	100.000	78.98	-21.0								

tert-Butylbenzene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
10	0.500	0.53	6.2	09	1.000	1.07	6.7	08	2.000	2.04	2.2
07	5.000	5.06	1.2	06	20.000	20.46	2.3	05	50.000	48.11	-3.8
04	100.000	85.09	-14.9								

trans-1,2-Dichloroethene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
10	0.500	0.59	17.7	09	1.000	1.06	6.1	08	2.000	1.81	-9.5
07	5.000	4.80	-4.0	06	20.000	21.06	5.3	05	50.000	50.32	0.6
04	100.000	94.63	-5.4	03	150.000	133.63	-10.9				

Initial Calibration - Detailed Report

Calibration ID:	RC1600073	**Instrument ID:**	R-MS-06
		Signal ID:	1

Analyte

trans-1,3-Dichloropropene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
10	0.500	0.56	12.0	09	1.000	0.91	-9.3	08	2.000	1.91	-4.7
07	5.000	5.26	5.3	06	20.000	22.01	10.1	05	50.000	51.95	3.9
04	100.000	96.72	-3.3	03	150.000	141.95	-5.4	02	200.000	182.80	-8.6

trans-1,4-Dichloro-2-butene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
09	1.000	0.94	-5.8	08	2.000	1.77	-11.3	07	5.000	4.53	-9.4
06	20.000	19.47	-2.6	05	50.000	52.61	5.2	04	100.000	104.74	4.7
03	150.000	164.65	9.8	02	200.000	218.89	9.4				

Quantitation Report (QT Reviewed)

Data File : I:\ACQUDATA\MSVOA6\DATA\071416\D0289.D Vial: 13
Acq On : 14 Jul 2016 1:27 pm Operator: D.LIPANI
Sample : STD #1 - 0.5 PPB Inst : MS#6
Misc : 8260C / 624 ICAL GCMS#6 Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Jul 18 16:21 2016 Quant Results File: W071416.RES

Quant Method : I:\ACQUDATA\M...\W071416.M (RTE Integrator)
Title : 8260C / 624 WATERS
Last Update : Fri Jul 15 10:51:35 2016
Response via : Initial Calibration
DataAcq Meth : W071416

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.53	168	330387	50.00	ug/L	0.00
40) 1,4-Difluorobenzene	5.83	114	492690	50.00	ug/L	0.00
69) d5-Chlorobenzene	9.18	117	420683	50.00	ug/L	0.00
89) 1,4-Dichlorobenzene-d4	11.28	152	242688	50.00	ug/L	0.00
System Monitoring Compounds						
41) surr4,Dibrflmethane	3.79	113	160520	50.60	ug/L	0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 101.20%			
43) surr1,1,2-dichloroethane-d	4.40	65	140864	49.71	ug/L	0.00
Spiked Amount 50.000	Range 65 - 130		Recovery = 99.42%			
67) SURR3,Toluene-d8	7.87	98	539525	54.44	ug/L	0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 108.88%			
88) SURR2,BFB	10.24	95	218650	54.10	ug/L	0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 108.20%			

Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.05	85	2673	0.56	ug/L	95
3) Chloromethane	1.12	50	2741	0.57	ug/L	87
4) Vinyl Chloride	1.20	62	3076	0.57	ug/L	78
5) Bromomethane	1.38	94	1052	0.44	ug/L #	74
6) Chloroethane	1.44	64	1585m	0.59	ug/L	
7) Freon 21	1.47	67	3395	0.56	ug/L	100
8) Freon 123	1.64	83	2679	0.53	ug/L	87
9) Freon 123a	1.67	67	2036	0.51	ug/L	95
10) Acrolein	1.73	56	761	2.46	ug/L #	63
11) Trichlorofluoromethane	1.73	101	2683	0.54	ug/L	96
12) Acetonitrile	1.73	41	918	4.18	ug/L #	56
14) Acetone	1.80	43	489	1.06	ug/L #	65
15) Diethyl Ether	1.87	59	1338	0.61	ug/L #	76
16) 1,1-Diclethene	2.03	96	1780	0.56	ug/L #	78
17) Iodomethane	2.04	142	858	1.14	ug/L	67
18) TBA	2.06	59	1245	8.94	ug/L	86
19) Acrylonitrile	2.07	53	1753	2.50	ug/L	86
20) Methylene Chloride	2.13	84	1694	0.49	ug/L #	80
21) Freon 113	2.18	101	1638	0.49	ug/L	88
22) Methyl Acetate	2.18	43	1273	0.87	ug/L	92
23) Allyl Chloride	2.19	76	844	0.45	ug/L	100
24) Carbon Disulfide	2.24	76	6411	0.60	ug/L	96
25) trans-1,2-Dichloroethene	2.62	96	1988	0.59	ug/L #	67
26) Methyl-t-Butyl Ether	2.74	73	3233	0.51	ug/L	71
27) 1,1-Diclethane	2.82	63	2676	0.51	ug/L	87
28) Propionitrile	2.88	54	586	2.66	ug/L	92
29) Vinyl Acetate	3.05	43	1864m	0.42	ug/L	
30) 2-Chloro-1,3-Butadiene	3.19	53	2639	0.56	ug/L #	51
33) cis-1,2-Dichloroethene	3.40	96	1843	0.53	ug/L #	73
34) Bromochloromethane	3.56	128	779	0.52	ug/L #	50
35) Chloroform	3.65	83	3257	0.58	ug/L #	70
36) 2,2-Dichloropropane	3.72	77	2462	0.53	ug/L	81
39) 1,1,1-Trichloroethane	4.65	97	2167	0.48	ug/L	97
44) 1,2-Dichloroethane	4.51	64	667m	0.62	ug/L	
46) 1,1-Dichloropropene	5.00	75	2299m	0.54	ug/L	

DL 7/18/16

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

Quantitation Report (QT Reviewed)

Data File : I:\ACQUDATA\MSVOA6\DATA\071416\D0289.D Vial: 13
Acq On : 14 Jul 2016 1:27 pm Operator: D.LIPANI
Sample : STD #1 - 0.5 PPB Inst : MS#6
Misc : 8260C / 624 ICAL GCMS#6 Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Jul 18 16:21 2016 Quant Results File: W071416.RES

Quant Method : I:\ACQUDATA\M...\W071416.M (RTE Integrator)
Title : 8260C / 624 WATERS
Last Update : Fri Jul 15 10:51:35 2016
Response via : Initial Calibration
DataAcq Meth : W071416

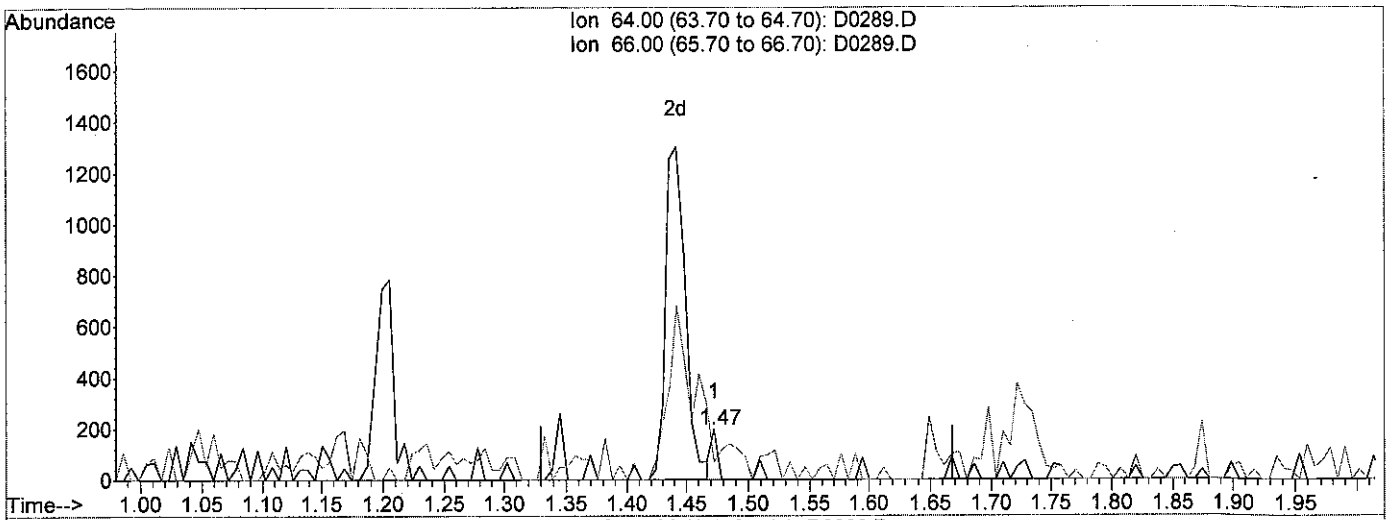
	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
47)	Cyclohexane	5.09	56	2369m	0.47 ug/L		
48)	Carbontetrachloride	5.23	119	2298	0.57 ug/L	#	53
49)	Benzene	5.34	78	6067	0.49 ug/L		92
51)	Dibromomethane	6.13	93	883	0.58 ug/L	#	68
52)	1,2-Diclpropane	6.20	63	1678	0.53 ug/L		100
53)	n-Heptane	6.31	43	1614	0.43 ug/L		88
54)	Trichloroethene	6.29	130	1590	0.49 ug/L		92
55)	Bromodichloromethane	6.34	83	2126m	0.53 ug/L		
61)	Methylcyclohexane	6.87	55	1945	0.54 ug/L		85
63)	cis-1,3-Dichloropropene	7.16	75	2082	0.46 ug/L		81
65)	trans-1,3-Dichloropropene	7.65	75	2001	0.56 ug/L	#	45
66)	1,1,2-Trichloroethane	7.75	97	1069	0.51 ug/L		92
68)	Toluene	7.94	91	6601	0.52 ug/L		98
70)	1,3-Dichloropropane	8.00	76	1574	0.47 ug/L	#	71
71)	Ethyl Methacrylate	8.21	69	1137m	0.45 ug/L		
72)	Dibromochloromethane	8.19	129	1228	0.46 ug/L	#	79
74)	1,2-Dibromoethane	8.41	107	1250	0.57 ug/L	#	55
76)	Tetrachloroethene	8.61	164	1523	0.55 ug/L		93
77)	1,1,1,2-Tetrachloroethane	9.16	131	1499	0.53 ug/L	#	1
78)	Chlorobenzene	9.21	112	4306	0.53 ug/L		93
79)	Ethylbenzene	9.43	106	2241	0.51 ug/L	#	86
80)	Bromoform	9.60	173	643m	0.44 ug/L		
81)	(m+p)Xylene	9.61	106	5373	1.04 ug/L	#	83
82)	o-Xylene	9.93	106	2569	0.51 ug/L	#	70
84)	Styrene	9.87	104	3697	0.46 ug/L		93
85)	Amyl Acetate	9.99	43	1748m	0.47 ug/L		
86)	trans-1,4-Dichloro-2-Buten	10.10	75	476m	0.57 ug/L		
87)	Isopropylbenzene	10.24	105	7919	0.60 ug/L		92
90)	1,1,2,2-Tetrachloroethane	9.91	83	1257	0.51 ug/L		90
91)	1,2,3-Trichloropropane	10.03	75	779m	0.46 ug/L		
92)	Bromobenzene	10.38	156	2252	0.58 ug/L		93
93)	n-Propylbenzene	10.60	91	7899	0.52 ug/L		95
94)	2-Chlorotoluene	10.64	91	5183	0.56 ug/L		88
95)	4-Chlorotoluene	10.70	91	5142m	0.53 ug/L		
96)	1,3,5-Trimethylbenzene	10.86	105	5949	0.56 ug/L		99
97)	tert-Butylbenzene	11.06	119	4677	0.53 ug/L	#	57
98)	1,2,4-Trimethylbenzene	11.16	105	5794	0.53 ug/L		97
99)	sec-Butylbenzene	11.23	105	6833	0.53 ug/L		94
100)	1,3-Dclbenz	11.25	146	3703	0.53 ug/L		93
101)	1,4-Dclbenz	11.31	146	3820	0.53 ug/L	#	42
102)	p-Isopropyltoluene	11.40	119	5694	0.52 ug/L		94
103)	1,2-Dclbenz	11.57	146	3237	0.50 ug/L		93
104)	n-Butylbenzene	11.71	91	5827	0.58 ug/L		93
105)	1,2-Dibromo-3-chloropropan	11.93	75	230	0.60 ug/L	#	50
107)	1,2,4-Tcbenzene	13.01	180	2235	0.53 ug/L		99
108)	Naphthalen	13.19	128	3470	0.51 ug/L		74
109)	Hexachlorobt	13.27	225	1362	0.65 ug/L	#	75
110)	1,2,3-Tclbenzene	13.34	180	1803	0.55 ug/L		89

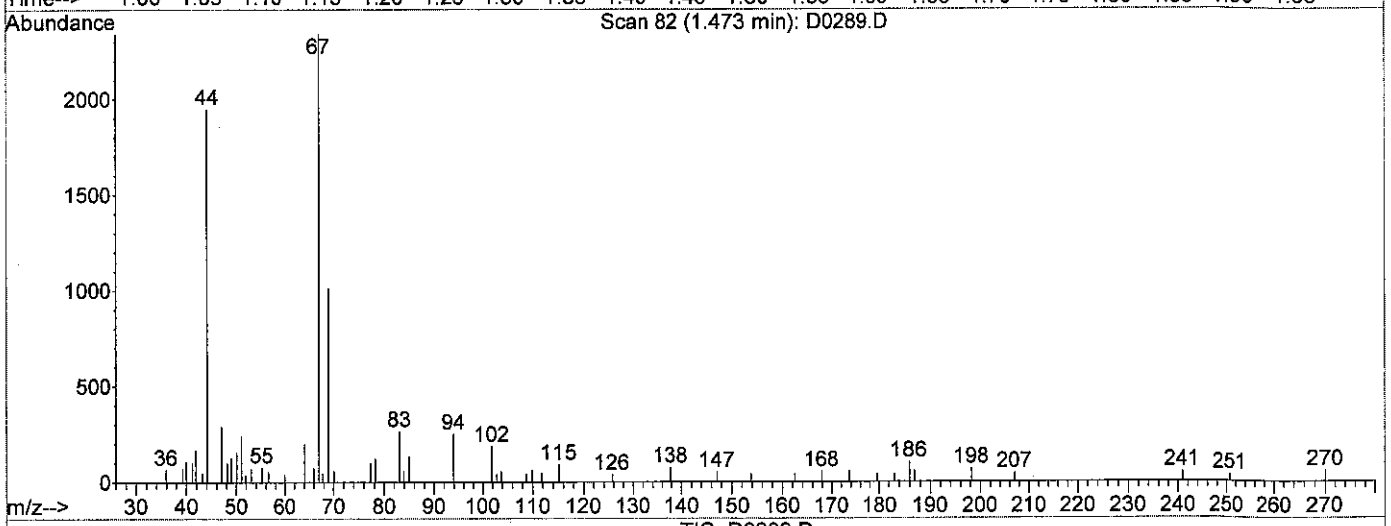
(#) = qualifier out of range (m) = manual integration

Quantitation Report (Qedit)

Data File : I:\ACQUDATA\MSVOA6\DATA\071416\D0289.D Vial: 13
Acq On : 14 Jul 2016 1:27 pm Operator: D.LIPANI
Sample : STD #1 - 0.5 PPB Inst : MS#6
Misc : 8260C / 624 ICAL GCMS#6 Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Jul 15 10:52 2016 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA6\METHODS\W071416.M (RTE Integrator)
Title : 8260C / 624 WATERS
Last Update : Fri Jul 15 10:51:35 2016
Response via : Multiple Level Calibration





(6) Chloroethane (P)

1.47min 0.03ug/L

response 71

Ion	Exp%	Act%
64.00	100	100
66.00	31.50	35.71
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

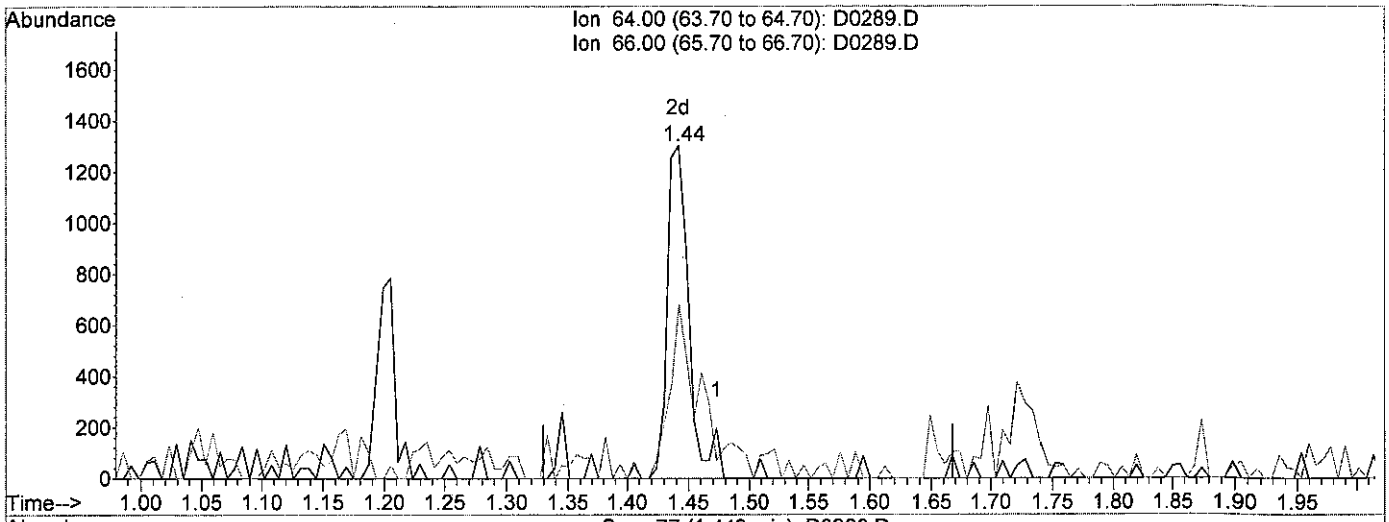
Before

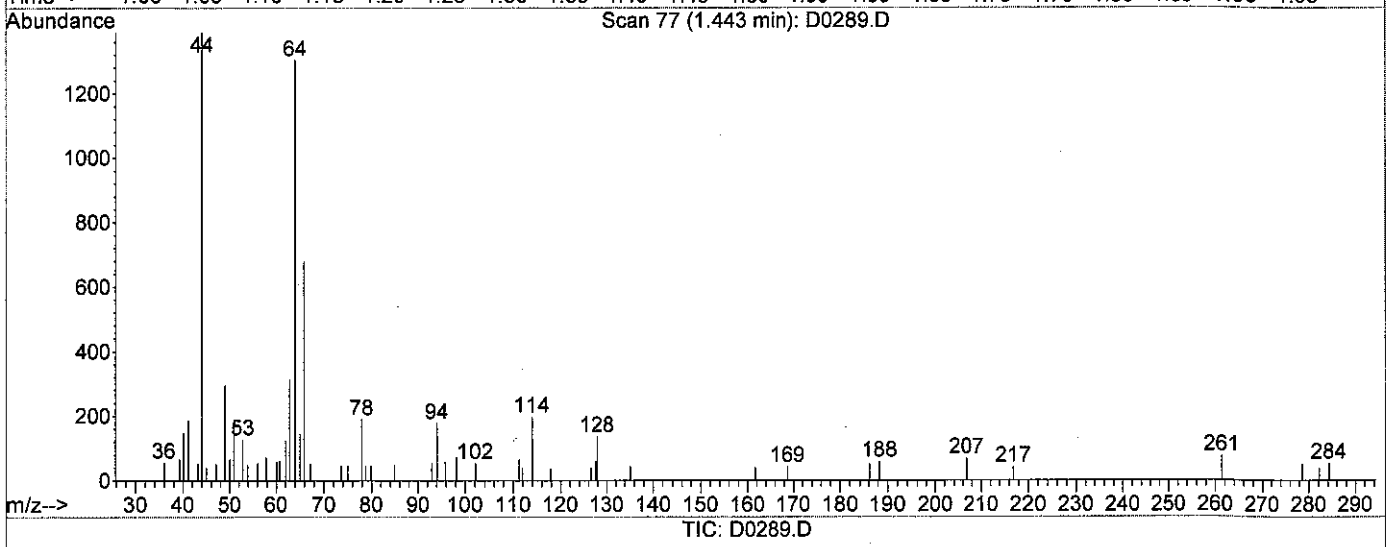
07/15/16

Quantitation Report (Qedit)

Data File : I:\ACQUDATA\MSVOA6\DATA\071416\D0289.D Vial: 13
Acq On : 14 Jul 2016 1:27 pm Operator: D.LIPANI
Sample : STD #1 - 0.5 PPB Inst : MS#6
Misc : 8260C / 624 ICAL GCMS#6 Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Jul 15 10:52 2016 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA6\METHODS\W071416.M (RTE Integrator)
Title : 8260C / 624 WATERS
Last Update : Fri Jul 15 10:51:35 2016
Response via : Multiple Level Calibration





(6) Chloroethane (P)

1.44min 0.59ug/L m

response 1585

Ion	Exp%	Act%
64.00	100	100
66.00	31.50	52.07#
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

Peak not found.

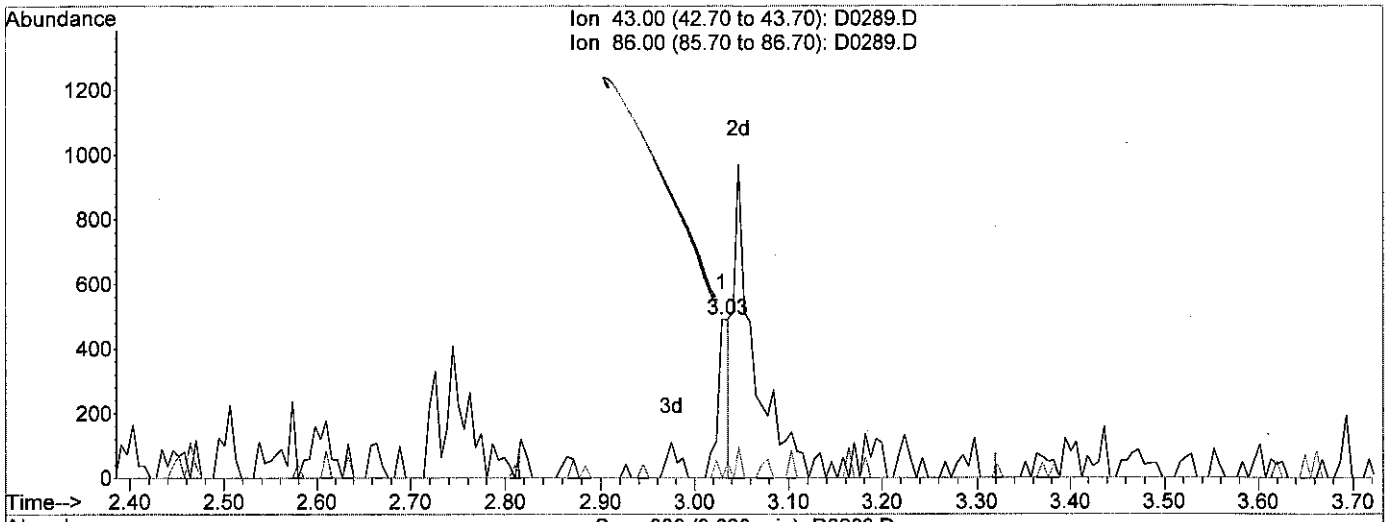
07/15/16 DL

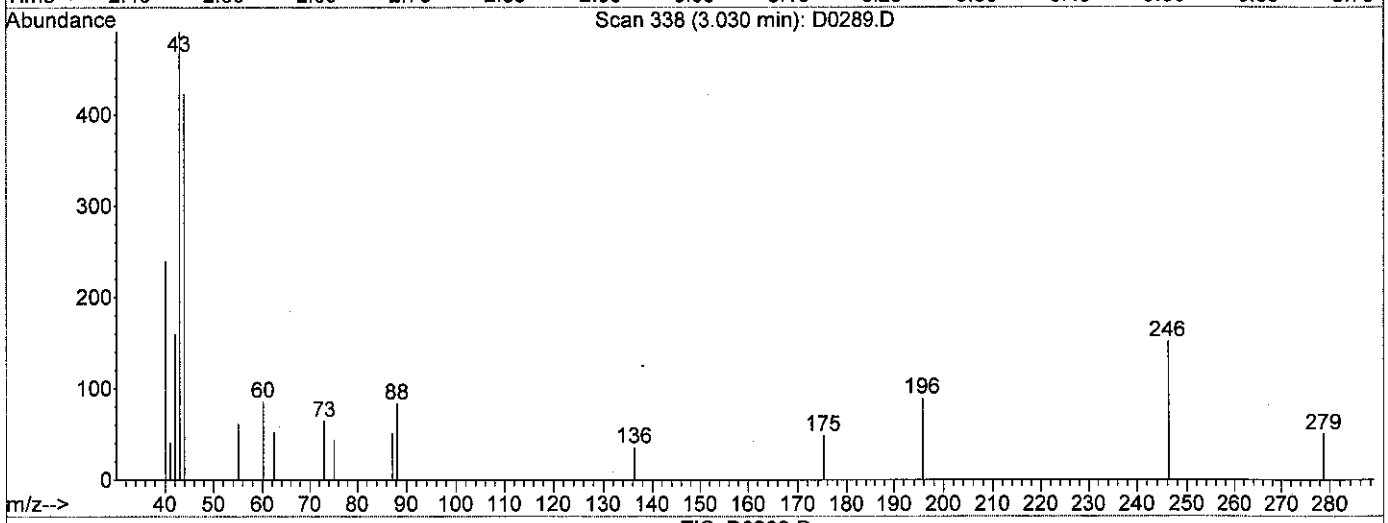
FU 7/18/16

Quantitation Report (Qedit)

Data File : I:\ACQUDATA\MSVOA6\DATA\071416\D0289.D Vial: 13
Acq On : 14 Jul 2016 1:27 pm Operator: D.LIPANI
Sample : STD #1 - 0.5 PPB Inst : MS#6
Misc : 8260C / 624 ICAL GCMS#6 Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Jul 15 10:53 2016 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA6\METHODS\W071416.M (RTE Integrator)
Title : 8260C / 624 WATERS
Last Update : Fri Jul 15 10:51:35 2016
Response via : Multiple Level Calibration





TIC: D0289.D

(29) Vinyl Acetate

3.03min 0.10ug/L

response 428

Ion	Exp%	Act%
43.00	100	100
86.00	8.20	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

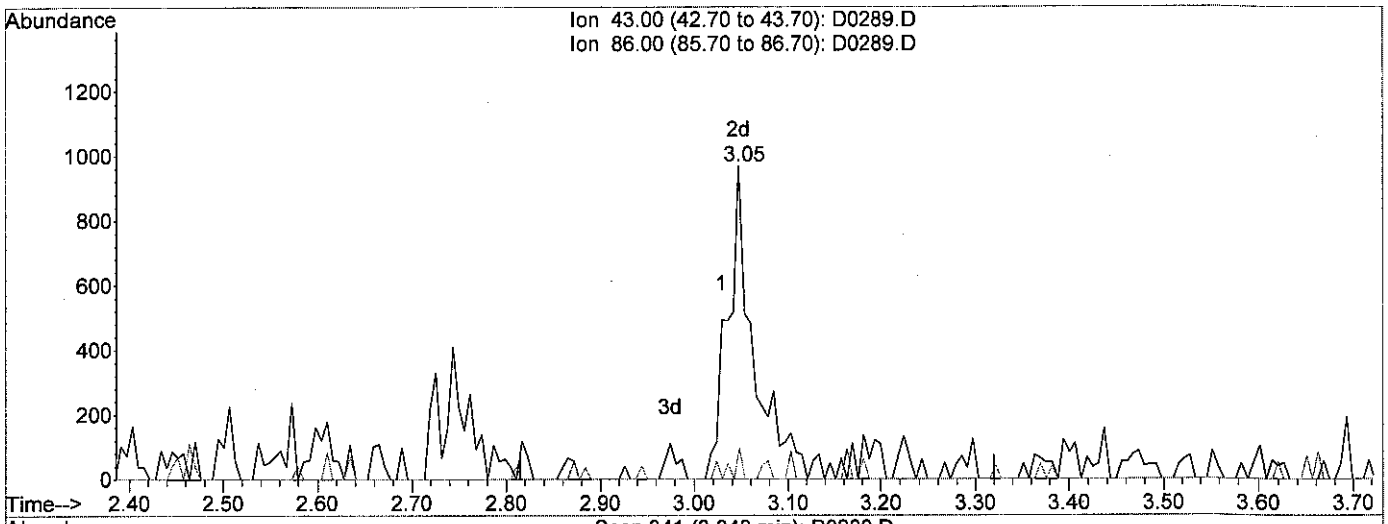
Before

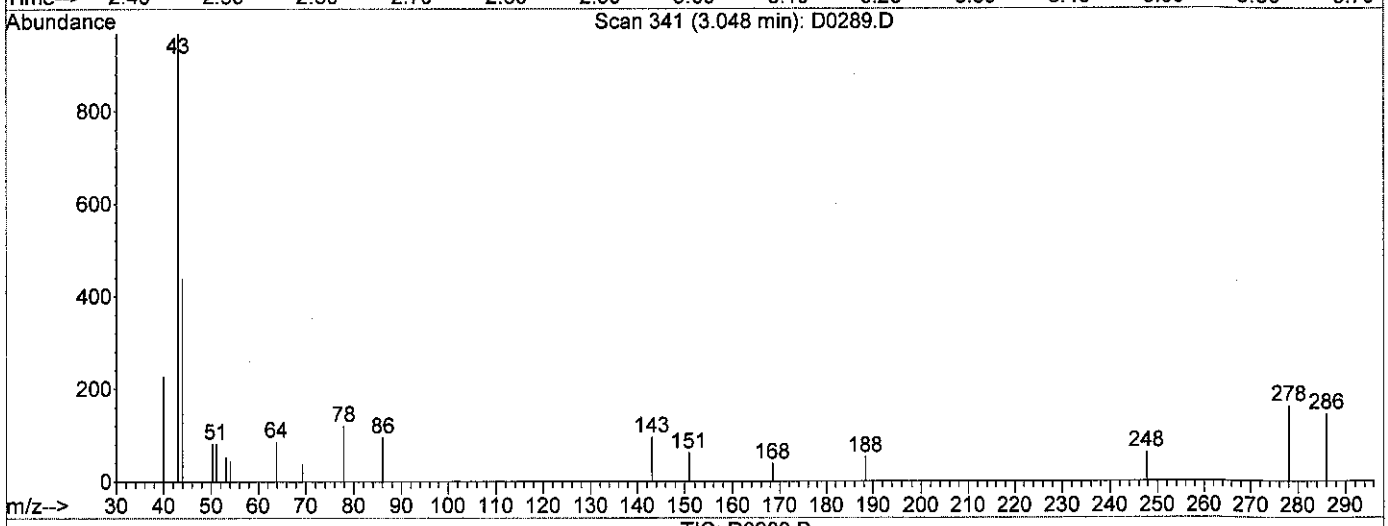
07/15/16

Quantitation Report (Qedit)

Data File : I:\ACQUDATA\MSVOA6\DATA\071416\D0289.D Vial: 13
Acq On : 14 Jul 2016 1:27 pm Operator: D.LIPANI
Sample : STD #1 - 0.5 PPB Inst : MS#6
Misc : 8260C / 624 ICAL GCMS#6 Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Jul 15 10:54 2016 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA6\METHODS\W071416.M (RTE Integrator)
Title : 8260C / 624 WATERS
Last Update : Fri Jul 15 10:51:35 2016
Response via : Multiple Level Calibration





(29) Vinyl Acetate

3.05min 0.42ug/L m

response 1864

Ion	Exp%	Act%
43.00	100	100
86.00	8.20	9.71
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

Peak not found.

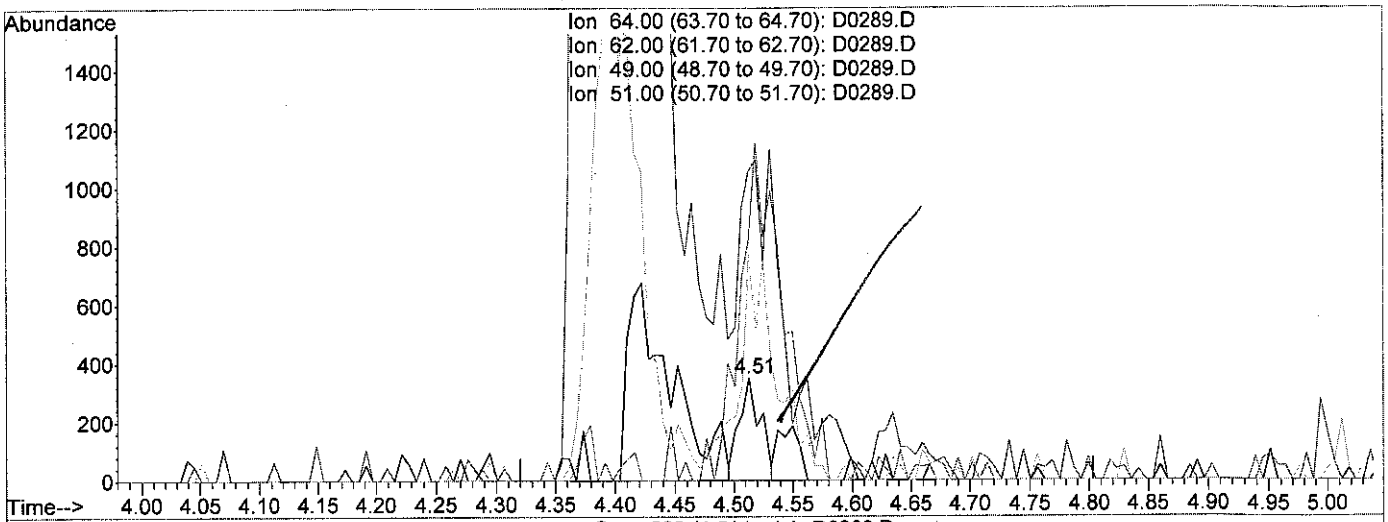
07/15/16 DL

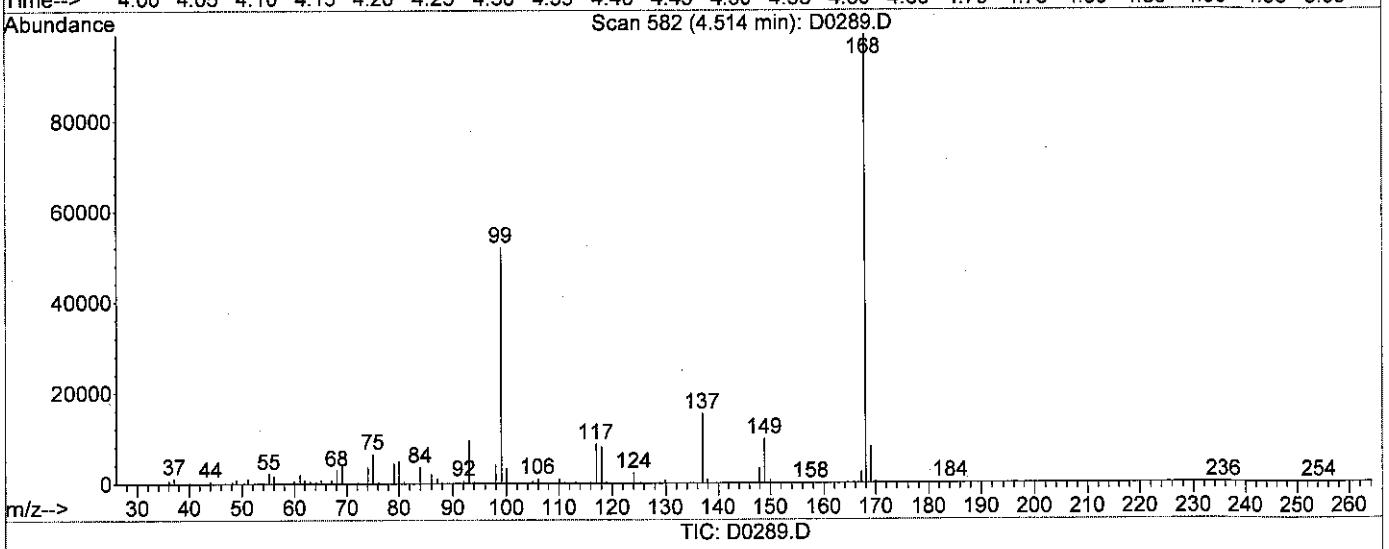
FD 7/18/16

Quantitation Report (Qedit)

Data File : I:\ACQUDATA\MSVOA6\DATA\071416\D0289.D Vial: 13
Acq On : 14 Jul 2016 1:27 pm Operator: D.LIPANI
Sample : STD #1 - 0.5 PPB Inst : MS#6
Misc : 8260C / 624 ICAL GCMS#6 Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Jul 15 10:57 2016 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA6\METHODS\W071416.M (RTE Integrator)
Title : 8260C / 624 WATERS
Last Update : Fri Jul 15 10:51:35 2016
Response via : Multiple Level Calibration





TIC: D0289.D

(44) 1,2-Dichloroethane (P)

4.51min 0.41ug/L

response 441

Ion	Exp%	Act%
64.00	100	100
62.00	296.10	234.38#
49.00	91.10	221.49#
51.00	40.20	302.01#

Manual Integration:

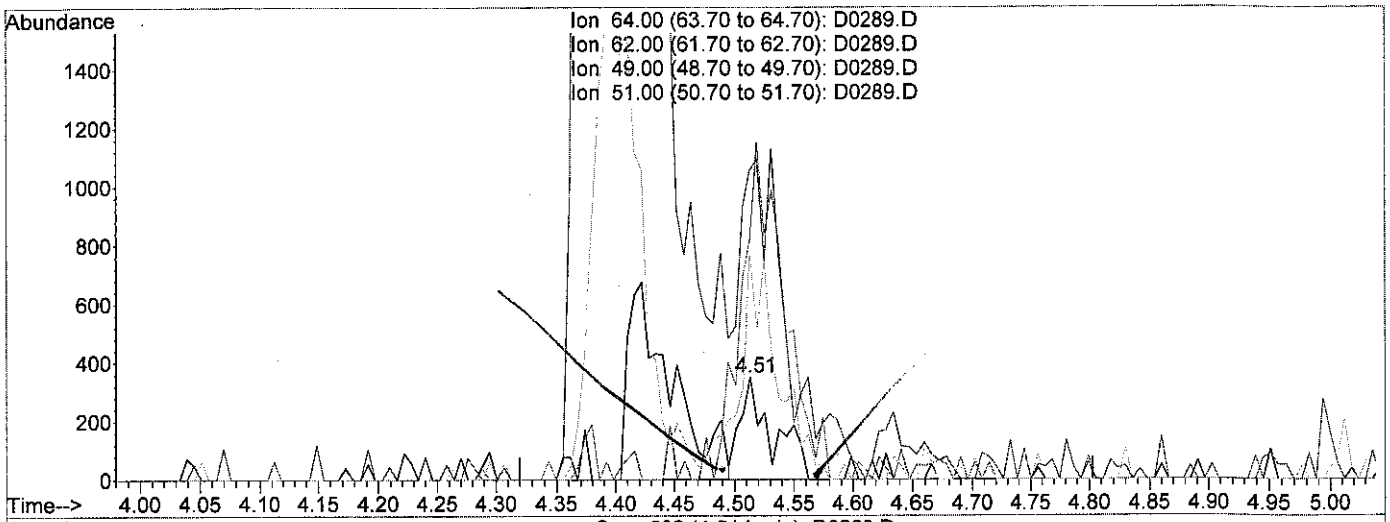
Before

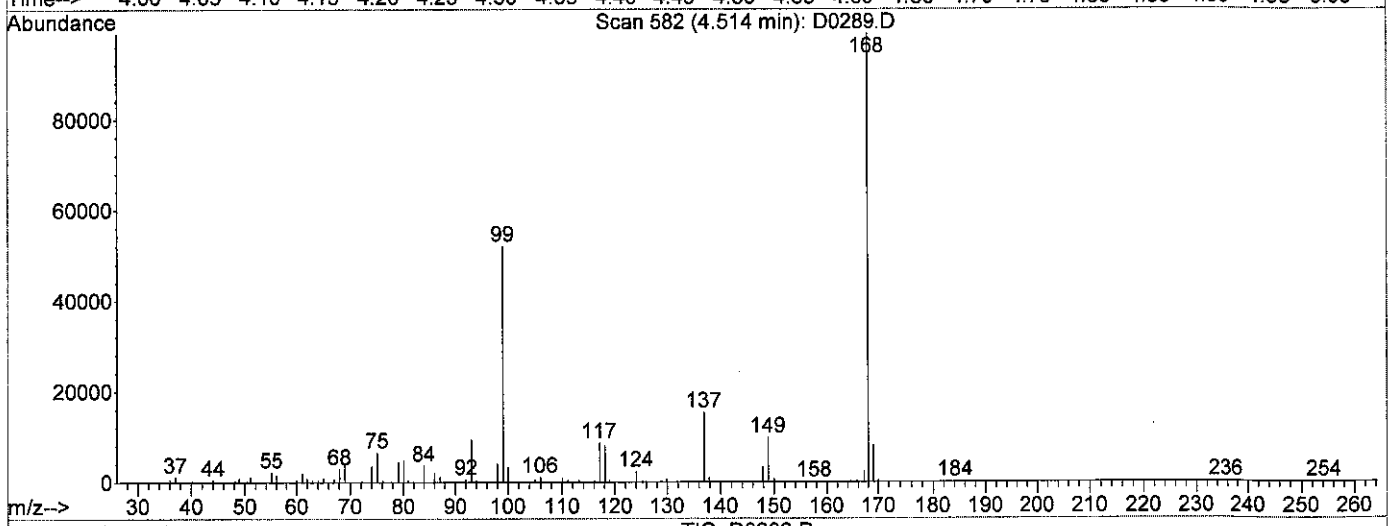
07/15/16

Quantitation Report (Qedit)

Data File : I:\ACQUDATA\MSVOA6\DATA\071416\D0289.D Vial: 13
Acq On : 14 Jul 2016 1:27 pm Operator: D.LIPANI
Sample : STD #1 - 0.5 PPB Inst : MS#6
Misc : 8260C / 624 ICAL GCMS#6 Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Jul 15 10:57 2016 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA6\METHODS\W071416.M (RTE Integrator)
Title : 8260C / 624 WATERS
Last Update : Fri Jul 15 10:51:35 2016
Response via : Multiple Level Calibration





TIC: D0289.D

(44) 1,2-Dichloroethane (P)

4.51min 0.62ug/L m

response 667

Ion	Exp%	Act%
64.00	100	100
62.00	296.10	234.38#
49.00	91.10	221.49#
51.00	40.20	302.01#

Manual Integration:

After

Peak not found.

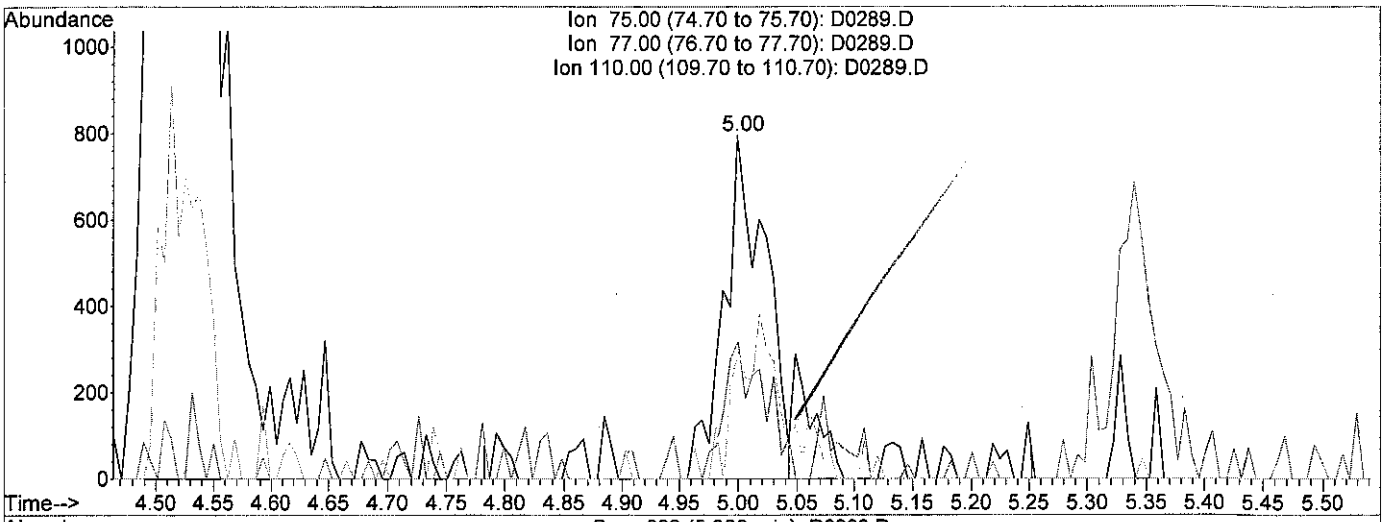
07/15/16 DL

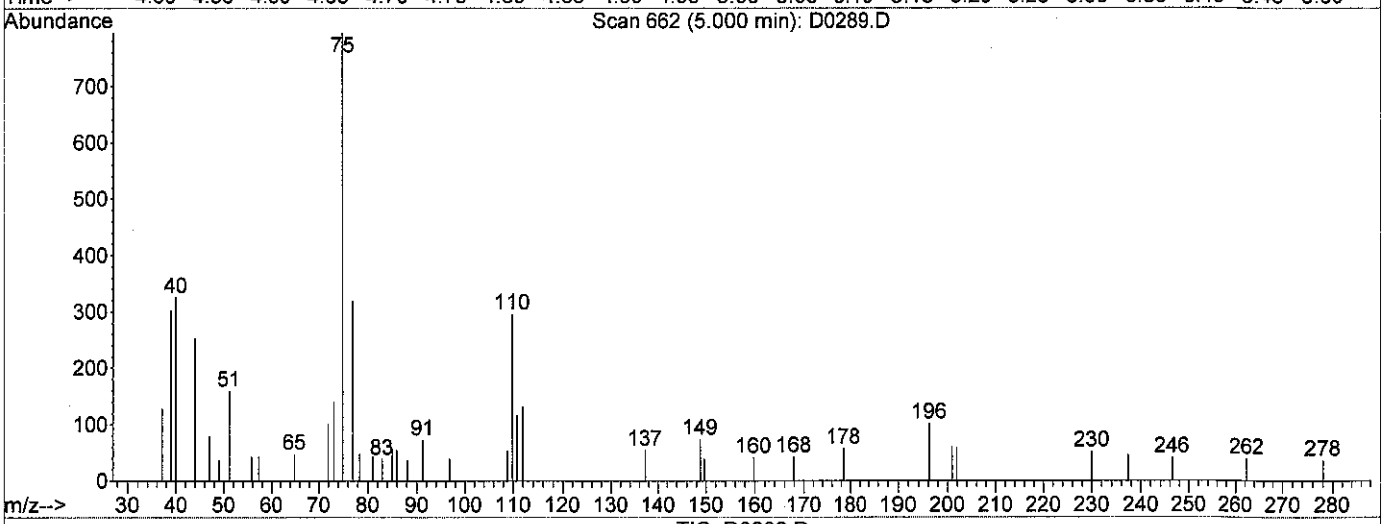
KJ 7/18/16

Quantitation Report (Qedit)

Data File : I:\ACQUDATA\MSVOA6\DATA\071416\D0289.D Vial: 13
Acq On : 14 Jul 2016 1:27 pm Operator: D.LIPANI
Sample : STD #1 - 0.5 PPB Inst : MS#6
Misc : 8260C / 624 ICAL GCMS#6 Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Jul 15 10:57 2016 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA6\METHODS\W071416.M (RTE Integrator)
Title : 8260C / 624 WATERS
Last Update : Fri Jul 15 10:51:35 2016
Response via : Multiple Level Calibration





TIC: D0289.D

(46) 1,1-Dichloropropene

5.00min 0.46ug/L

response 1930

Ion	Exp%	Act%
75.00	100	100
77.00	33.20	40.00
110.00	37.20	37.11
0.00	0.00	0.00

Manual Integration:

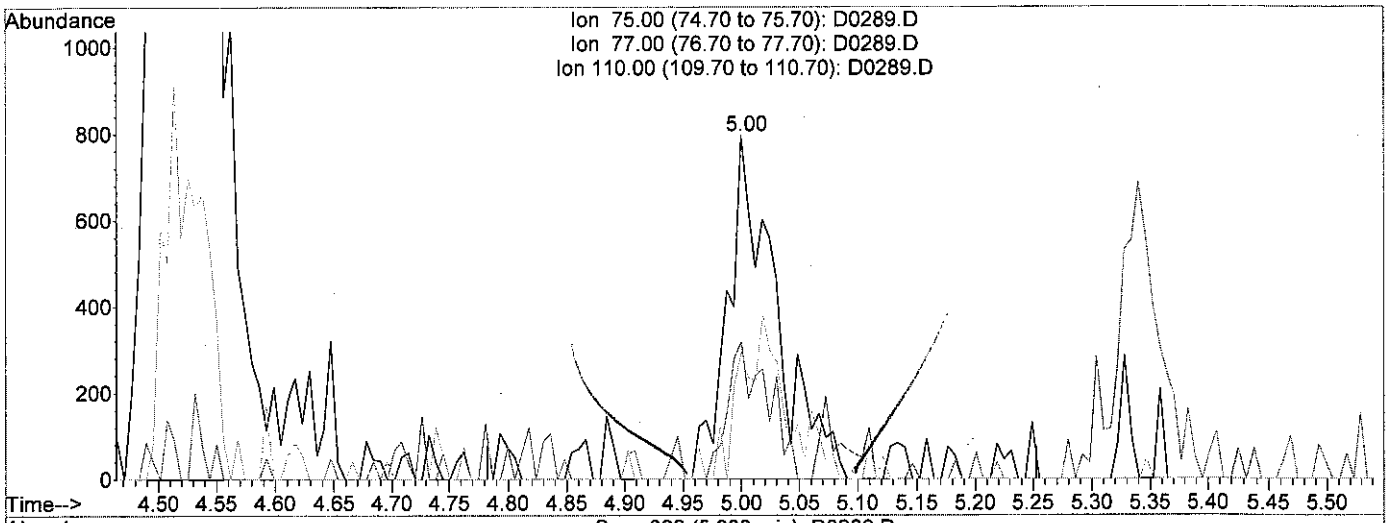
Before

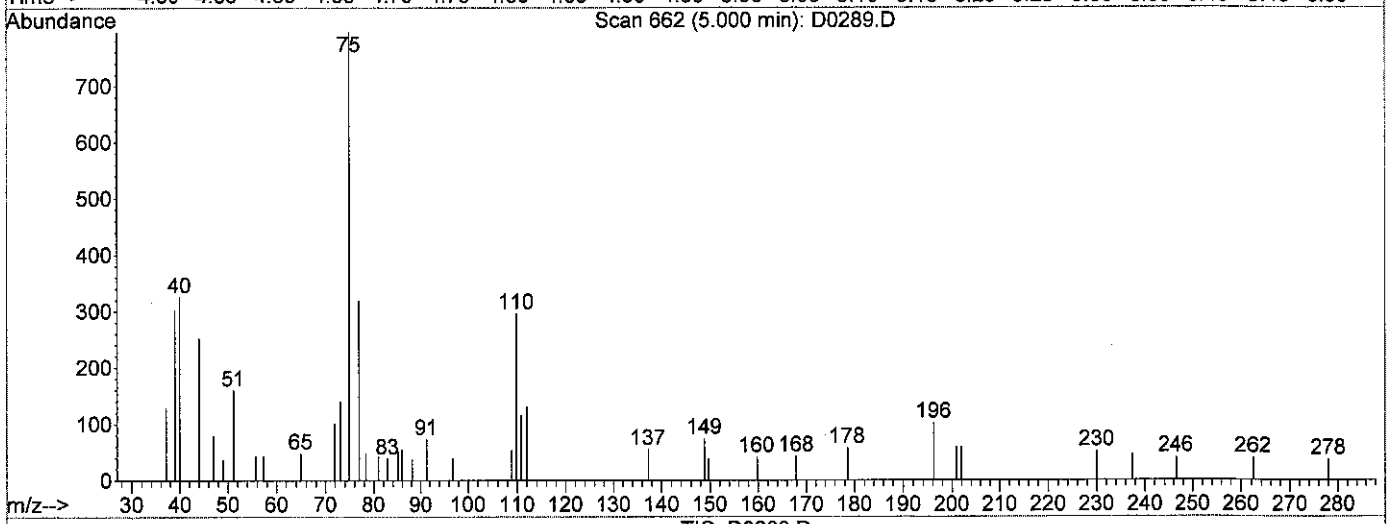
07/15/16

Quantitation Report (Qedit)

Data File : I:\ACQUDATA\MSVOA6\DATA\071416\D0289.D Vial: 13
Acq On : 14 Jul 2016 1:27 pm Operator: D.LIPANI
Sample : STD #1 - 0.5 PPB Inst : MS#6
Misc : 8260C / 624 ICAL GCMS#6 Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Jul 15 10:58 2016 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA6\METHODS\W071416.M (RTE Integrator)
Title : 8260C / 624 WATERS
Last Update : Fri Jul 15 10:51:35 2016
Response via : Multiple Level Calibration





TIC: D0289.D

(46) 1,1-Dichloropropene

5.00min 0.54ug/L m

response 2299

Ion	Exp%	Act%
75.00	100	100
77.00	33.20	40.00
110.00	37.20	37.11
0.00	0.00	0.00

Manual Integration:

After

Split Peak.

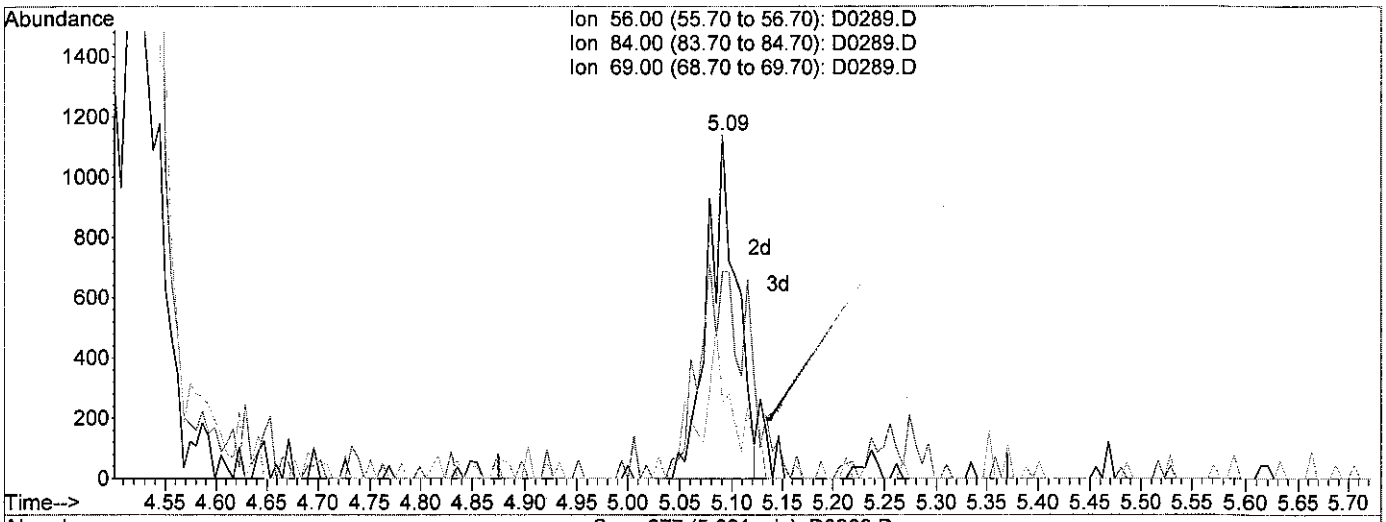
07/15/16 DL

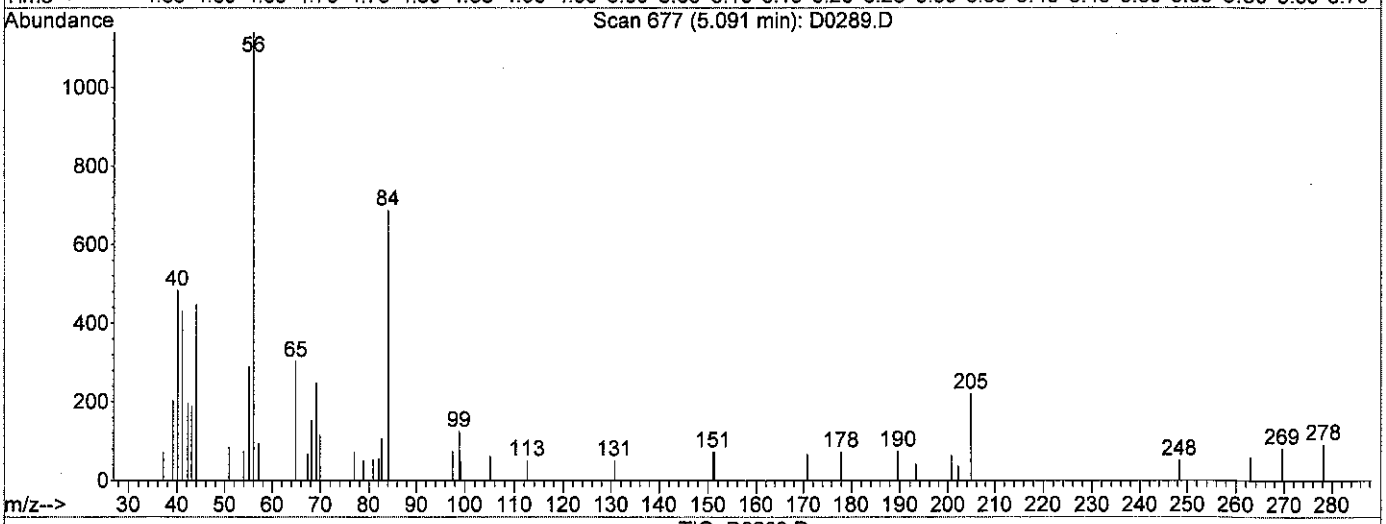
FD 7/18/16

Quantitation Report (Qedit)

Data File : I:\ACQUDATA\MSVOA6\DATA\071416\D0289.D Vial: 13
Acq On : 14 Jul 2016 1:27 pm Operator: D.LIPANI
Sample : STD #1 - 0.5 PPB Inst : MS#6
Misc : 8260C / 624 ICAL GCMS#6 Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Jul 15 10:58 2016 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA6\METHODS\W071416.M (RTE Integrator)
Title : 8260C / 624 WATERS
Last Update : Fri Jul 15 10:51:35 2016
Response via : Multiple Level Calibration





TIC: D0289.D

(47) Cyclohexane (P)

5.09min 0.44ug/L

response 2217

Ion	Exp%	Act%
56.00	100	100
84.00	81.90	60.26#
69.00	30.70	21.75
0.00	0.00	0.00

Manual Integration:

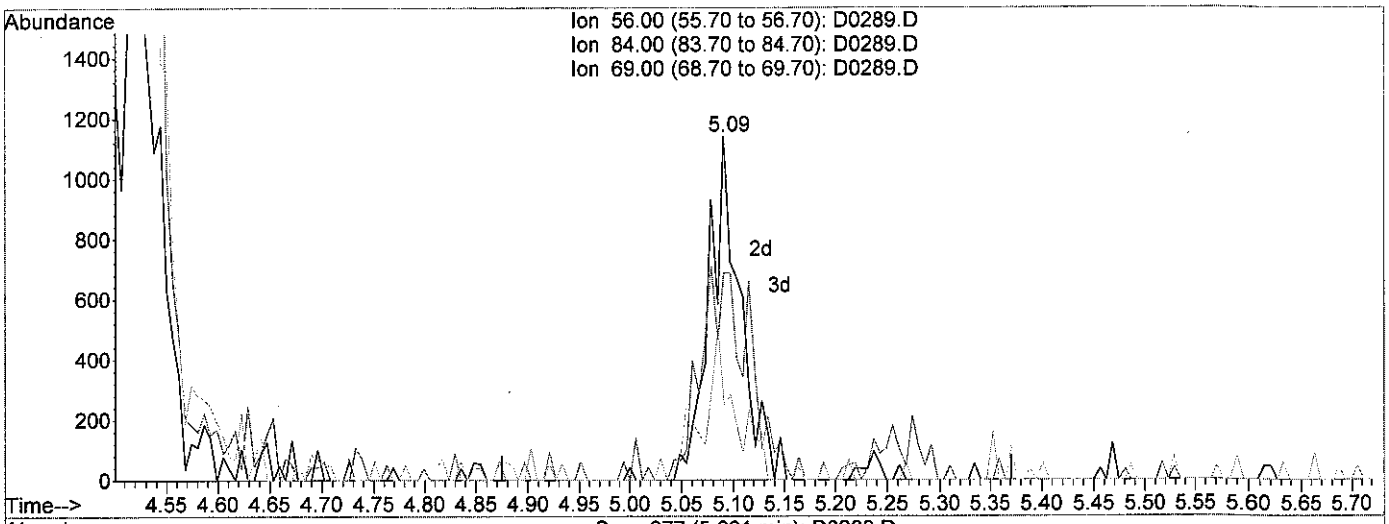
Before

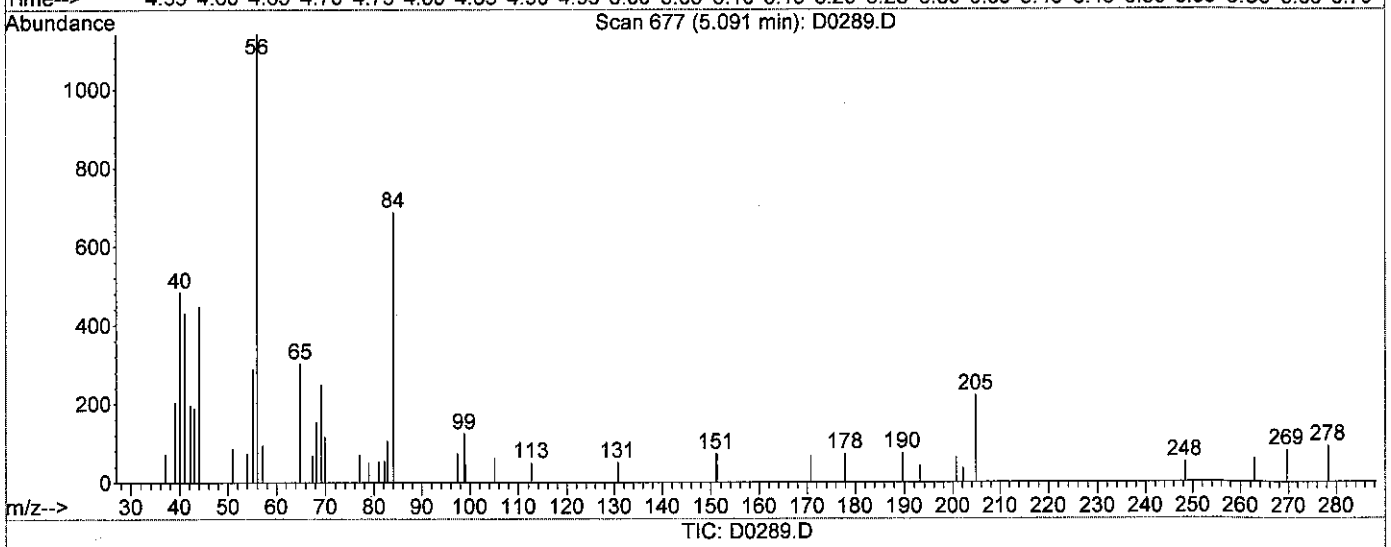
07/15/16

Quantitation Report (Qedit)

Data File : I:\ACQUDATA\MSVOA6\DATA\071416\D0289.D Vial: 13
Acq On : 14 Jul 2016 1:27 pm Operator: D.LIPANI
Sample : STD #1 - 0.5 PPB Inst : MS#6
Misc : 8260C / 624 ICAL GCMS#6 Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Jul 15 10:58 2016 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA6\METHODS\W071416.M (RTE Integrator)
Title : 8260C / 624 WATERS
Last Update : Fri Jul 15 10:51:35 2016
Response via : Multiple Level Calibration





(47) Cyclohexane (P)

5.09min 0.47ug/L m

response 2369

Ion	Exp%	Act%
56.00	100	100
84.00	81.90	60.26#
69.00	30.70	21.75
0.00	0.00	0.00

Manual Integration:

After

Split Peak.

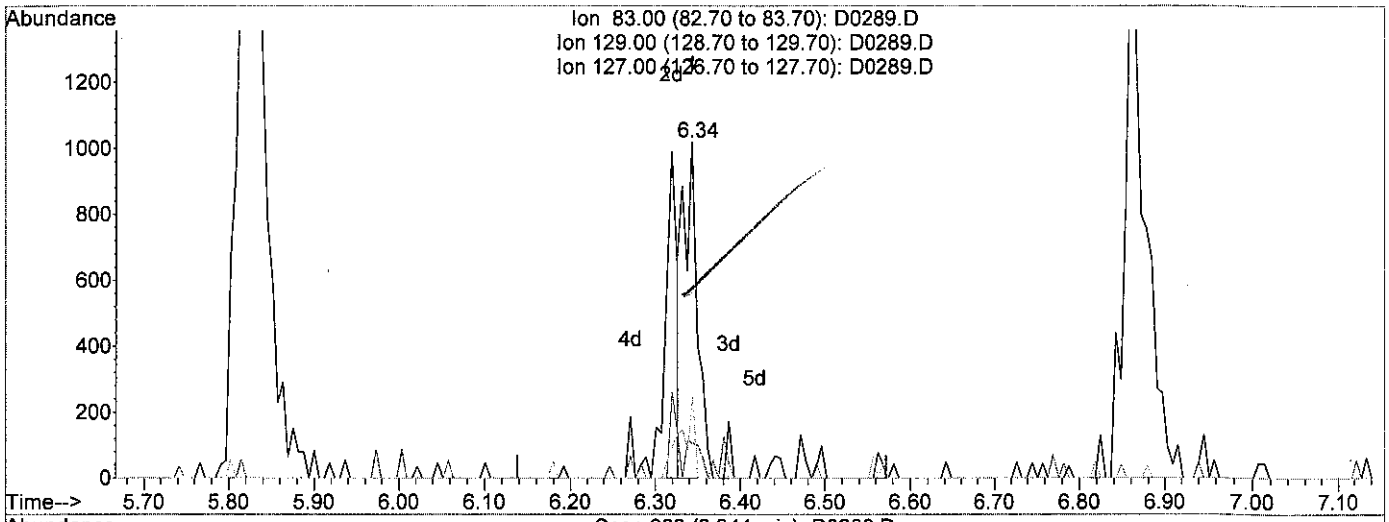
07/15/16 DL

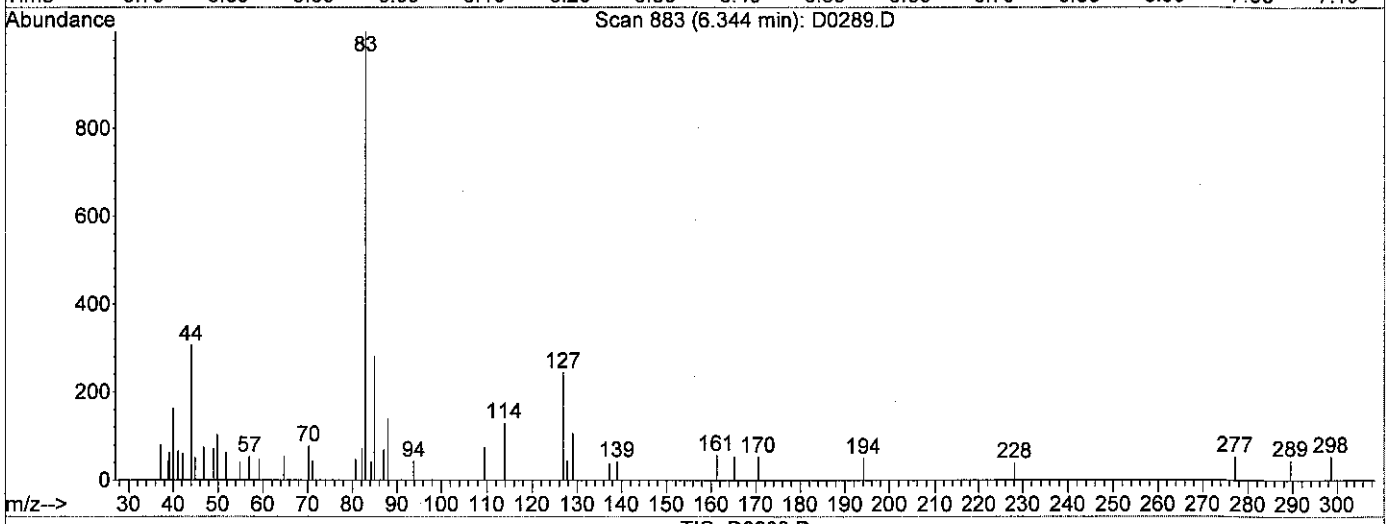
KD 7/18/16

Quantitation Report (Qedit)

Data File : I:\ACQUDATA\MSVOA6\DATA\071416\D0289.D Vial: 13
Acq On : 14 Jul 2016 1:27 pm Operator: D.LIPANI
Sample : STD #1 - 0.5 PPB Inst : MS#6
Misc : 8260C / 624 ICAL GCMS#6 Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Jul 15 10:58 2016 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA6\METHODS\W071416.M (RTE Integrator)
Title : 8260C / 624 WATERS
Last Update : Fri Jul 15 10:51:35 2016
Response via : Multiple Level Calibration





TIC: D0289.D

(55) Bromodichloromethane (P)

6.34min 0.30ug/L

response 1217

Ion	Exp%	Act%
83.00	100	100
129.00	11.40	11.34
127.00	8.80	22.51
0.00	0.00	0.00

Manual Integration:

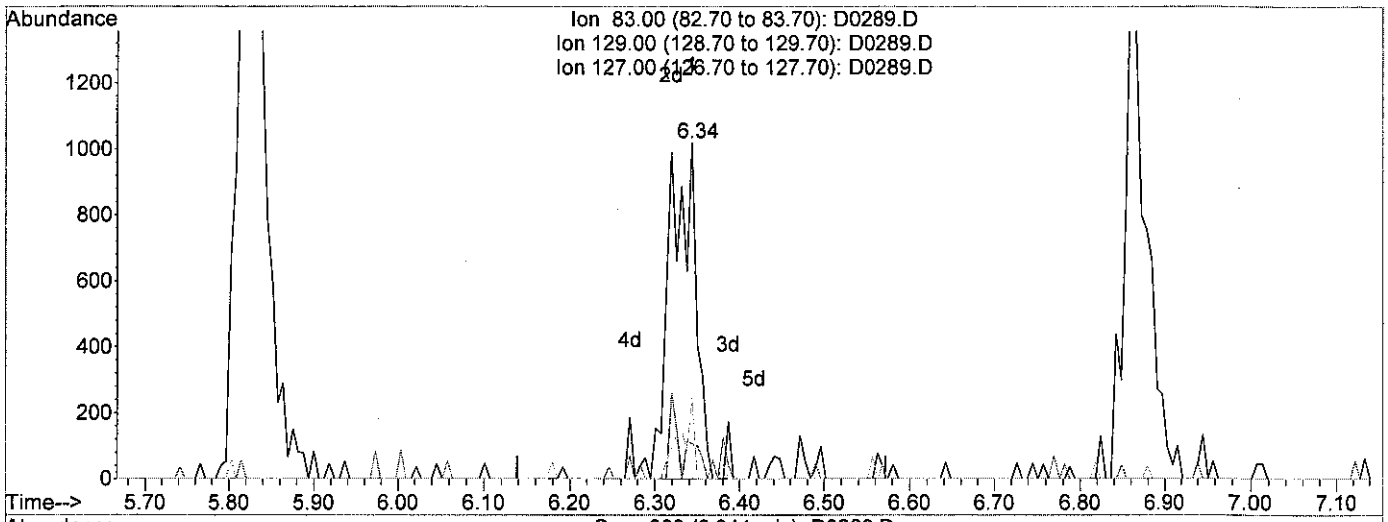
Before

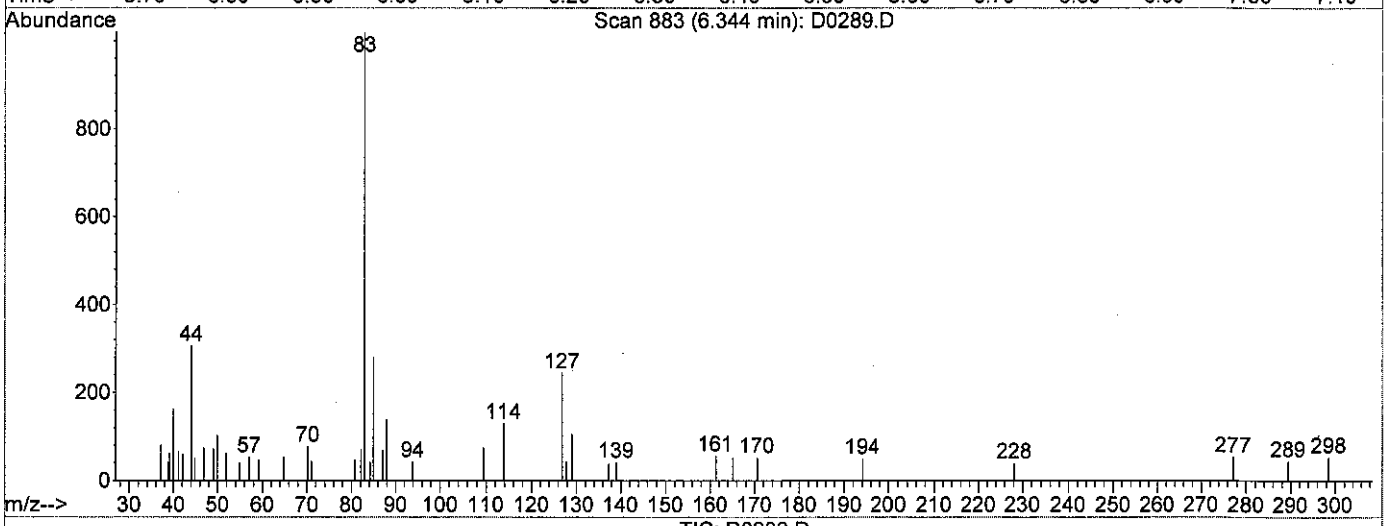
07/15/16

Quantitation Report (Qedit)

Data File : I:\ACQUDATA\MSVOA6\DATA\071416\D0289.D Vial: 13
Acq On : 14 Jul 2016 1:27 pm Operator: D.LIPANI
Sample : STD #1 - 0.5 PPB Inst : MS#6
Misc : 8260C / 624 ICAL GCMS#6 Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Jul 15 10:59 2016 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA6\METHODS\W071416.M (RTE Integrator)
Title : 8260C / 624 WATERS
Last Update : Fri Jul 15 10:51:35 2016
Response via : Multiple Level Calibration





(55) Bromodichloromethane (P)

6.34min 0.53ug/L m

response 2126

Ion	Exp%	Act%
83.00	100	100
129.00	11.40	6.49
127.00	8.80	12.89
0.00	0.00	0.00

Manual Integration:

After

Split Peak.

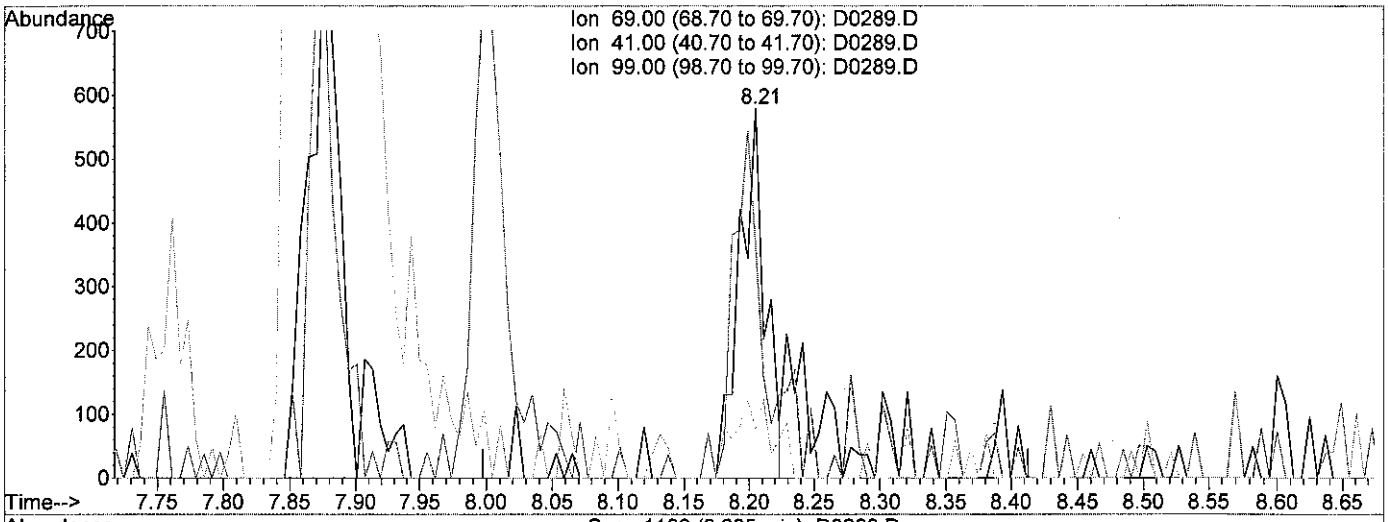
07/15/16 DL

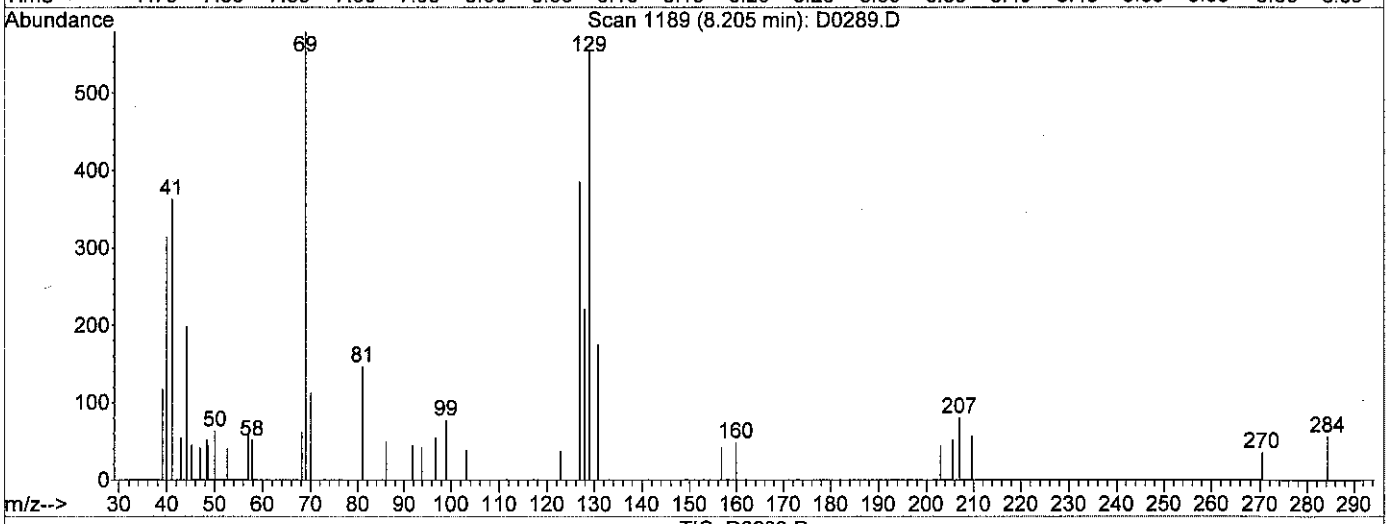
FJ 7/18/16

Quantitation Report (Qedit)

Data File : I:\ACQUDATA\MSVOA6\DATA\071416\D0289.D Vial: 13
Acq On : 14 Jul 2016 1:27 pm Operator: D.LIPANI
Sample : STD #1 - 0.5 PPB Inst : MS#6
Misc : 8260C / 624 ICAL GCMS#6 Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Jul 15 10:59 2016 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA6\METHODS\W071416.M (RTE Integrator)
Title : 8260C / 624 WATERS
Last Update : Fri Jul 15 10:51:35 2016
Response via : Multiple Level Calibration





TIC: D0289.D

(71) Ethyl Methacrylate

8.21min 0.32ug/L

response 800

Ion	Exp%	Act%
69.00	100	100
41.00	71.40	62.52
99.00	21.60	13.30
0.00	0.00	0.00

Manual Integration:

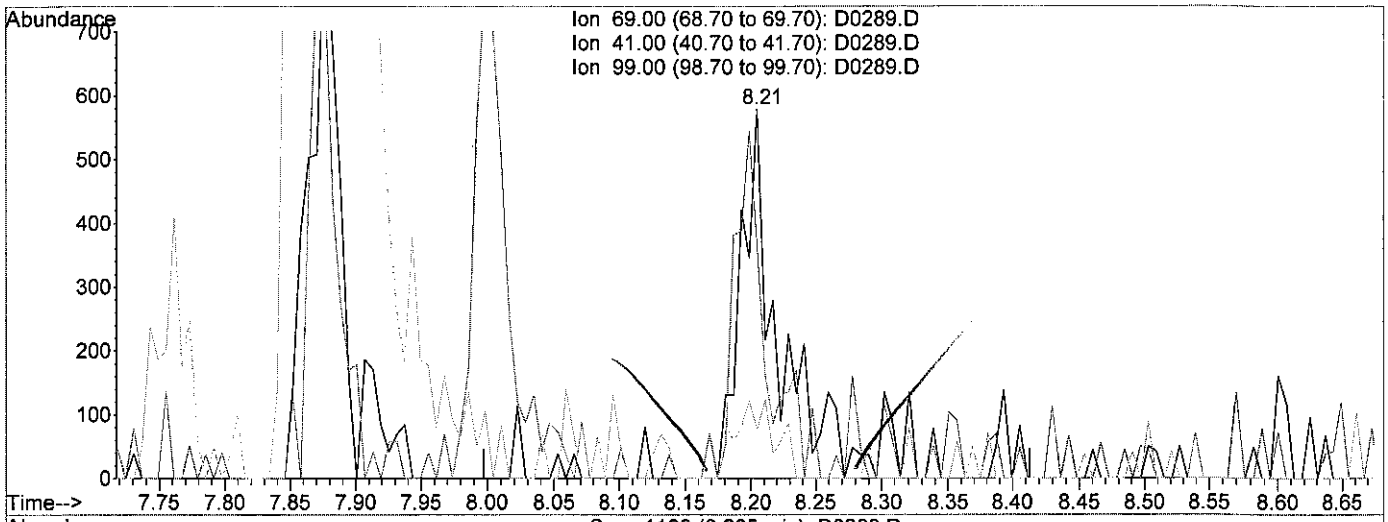
Before

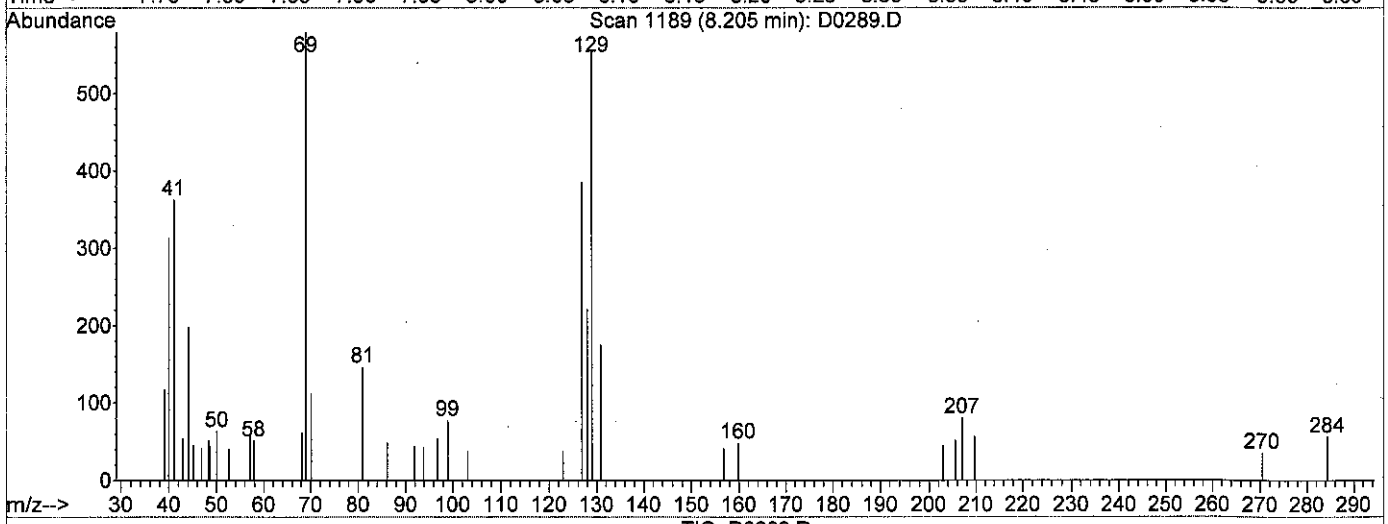
07/15/16

Quantitation Report (Qedit)

Data File : I:\ACQUDATA\MSVOA6\DATA\071416\D0289.D Vial: 13
Acq On : 14 Jul 2016 1:27 pm Operator: D.LIPANI
Sample : STD #1 - 0.5 PPB Inst : MS#6
Misc : 8260C / 624 ICAL GCMS#6 Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Jul 15 11:00 2016 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA6\METHODS\W071416.M (RTE Integrator)
Title : 8260C / 624 WATERS
Last Update : Fri Jul 15 10:51:35 2016
Response via : Multiple Level Calibration





TIC: D0289.D

(71) Ethyl Methacrylate

8.21min 0.45ug/L m

response 1137

Ion	Exp%	Act%
69.00	100	100
41.00	71.40	62.52
99.00	21.60	13.30
0.00	0.00	0.00

Manual Integration:

After

Split Peak.

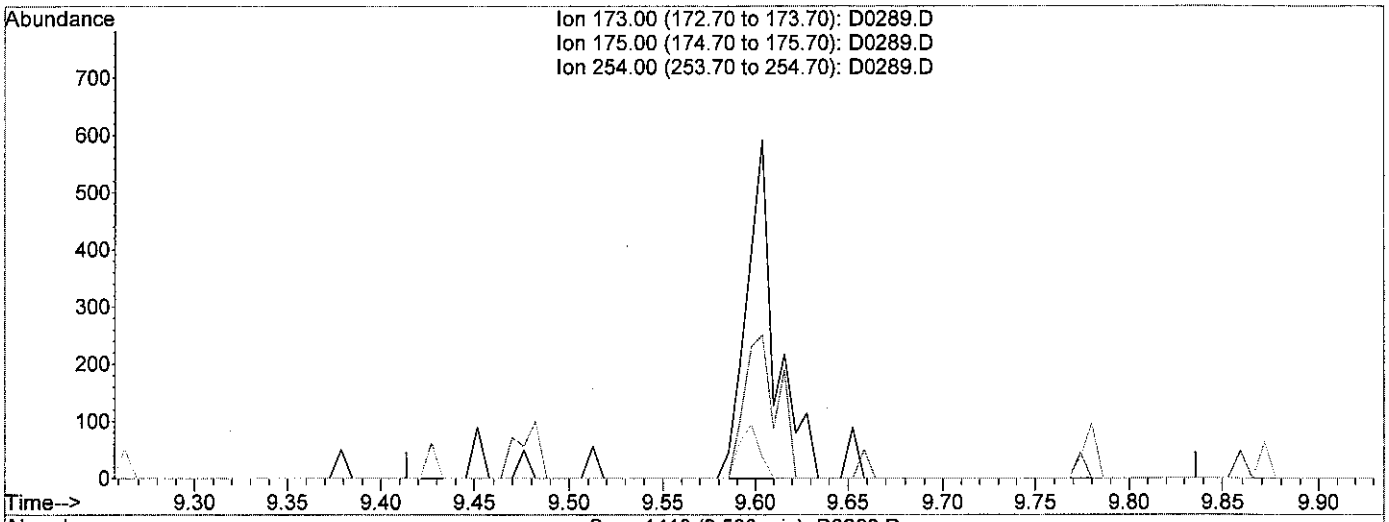
07/15/16 DL

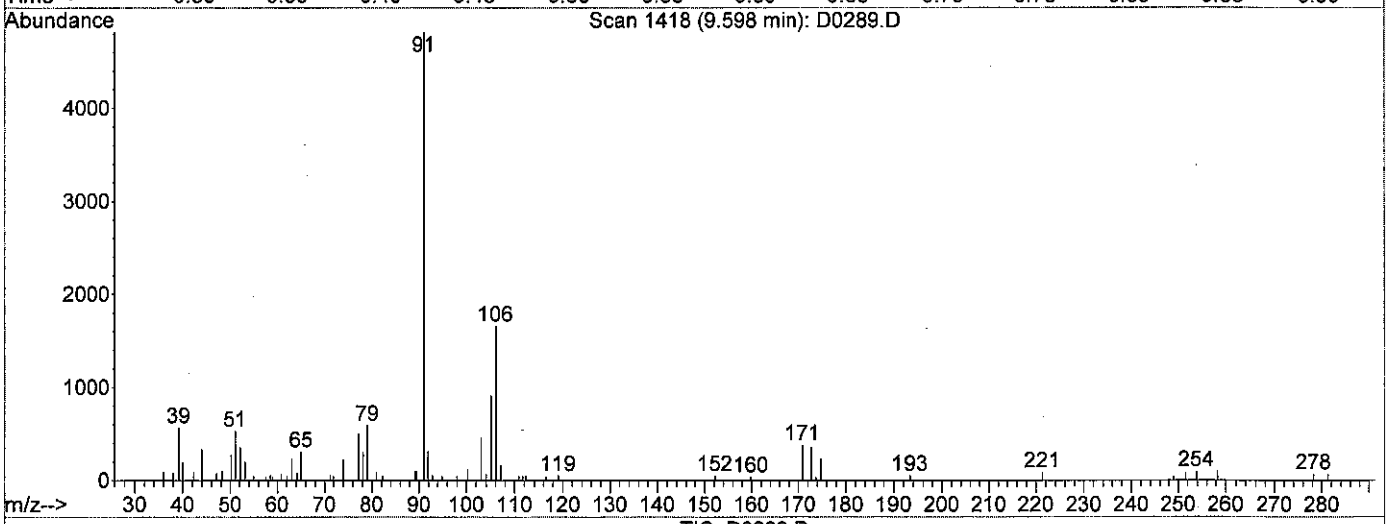
KS 7/18/16

Quantitation Report (Qedit)

Data File : I:\ACQUDATA\MSVOA6\DATA\071416\D0289.D Vial: 13
Acq On : 14 Jul 2016 1:27 pm Operator: D.LIPANI
Sample : STD #1 - 0.5 PPB Inst : MS#6
Misc : 8260C / 624 ICAL GCMS#6 Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Jul 15 11:00 2016 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA6\METHODS\W071416.M (RTE Integrator)
Title : 8260C / 624 WATERS
Last Update : Fri Jul 15 10:51:35 2016
Response via : Multiple Level Calibration





TIC: D0289.D

(80) Bromoform (P)

9.60min 0.00ug/L

response 0

Ion	Exp%	Act%
173.00	100	0.00
175.00	49.30	0.00#
254.00	11.40	0.00
0.00	0.00	0.00

Manual Integration:

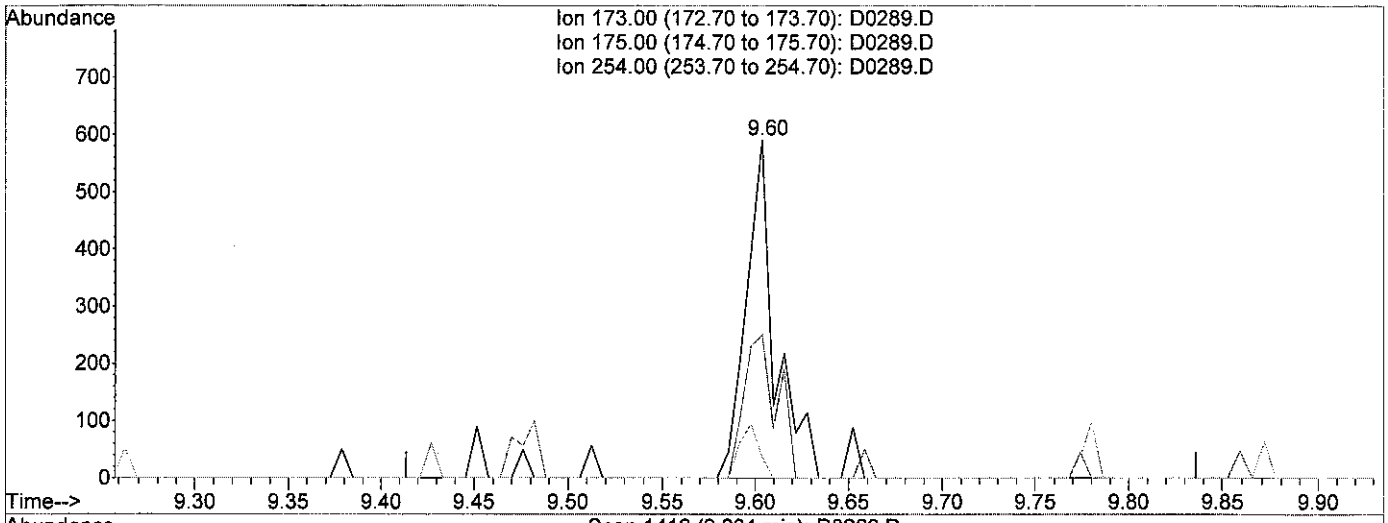
Before

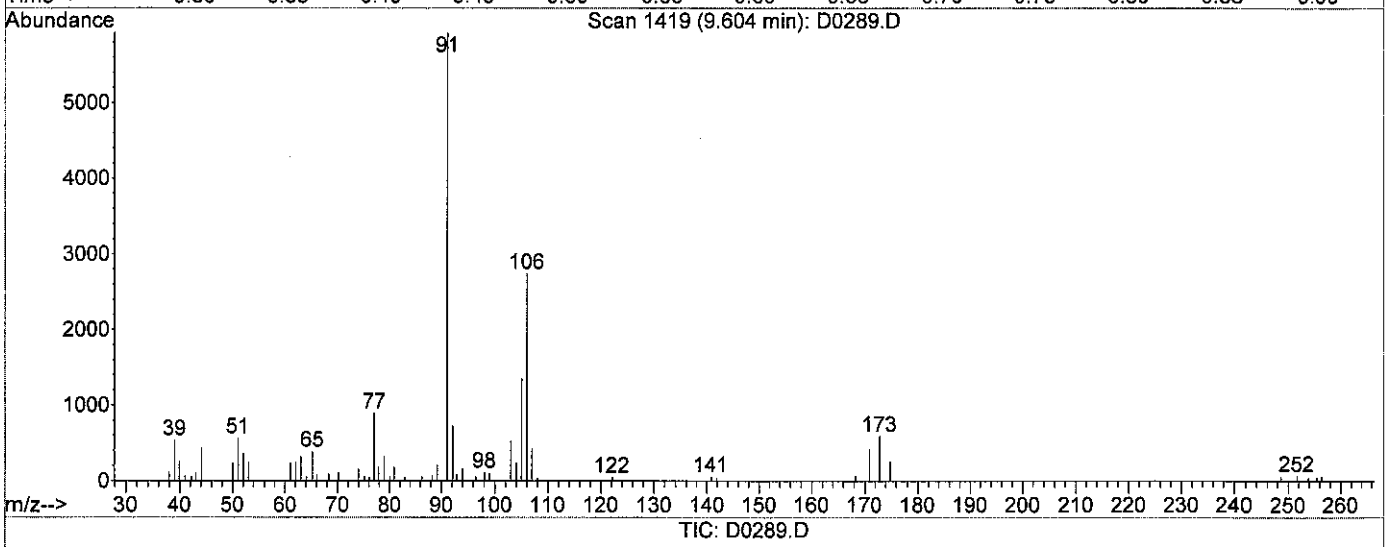
07/15/16

Quantitation Report (Qedit)

Data File : I:\ACQUDATA\MSVOA6\DATA\071416\D0289.D Vial: 13
Acq On : 14 Jul 2016 1:27 pm Operator: D.LIPANI
Sample : STD #1 - 0.5 PPB Inst : MS#6
Misc : 8260C / 624 ICAL GCMS#6 Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Jul 15 11:00 2016 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA6\METHODS\W071416.M (RTE Integrator)
Title : 8260C / 624 WATERS
Last Update : Fri Jul 15 10:51:35 2016
Response via : Multiple Level Calibration





(80) Bromoform (P)

9.60min 0.44ug/L m

response 643

Ion	Exp%	Act%
173.00	100	100
175.00	49.30	0.00#
254.00	11.40	0.00
0.00	0.00	0.00

Manual Integration:

After

Peak not found.

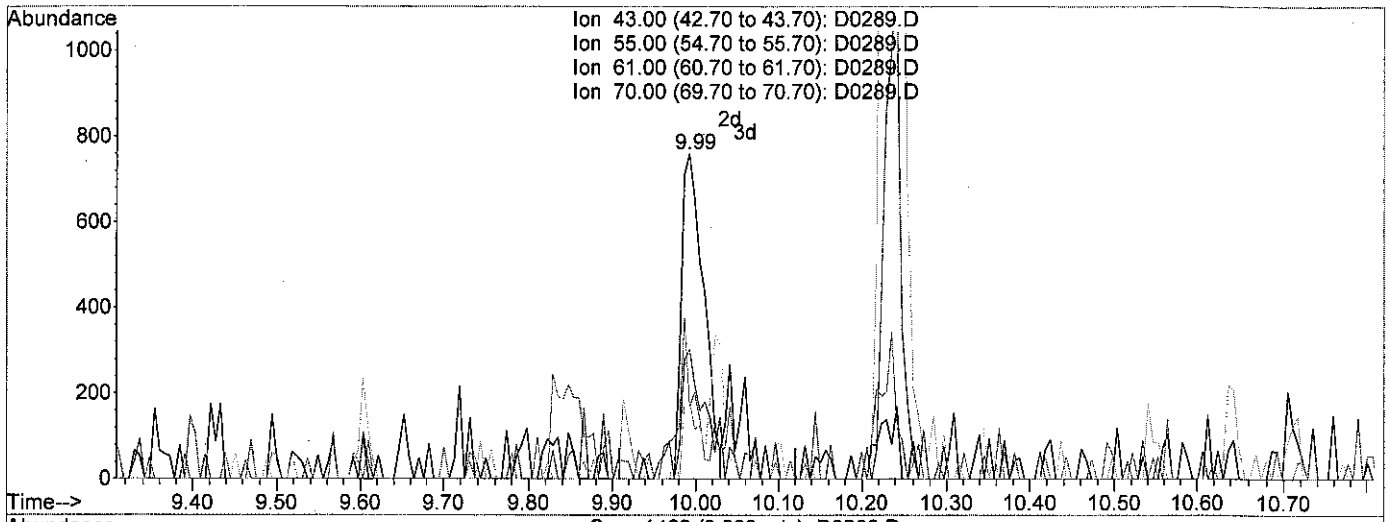
07/15/16 DL

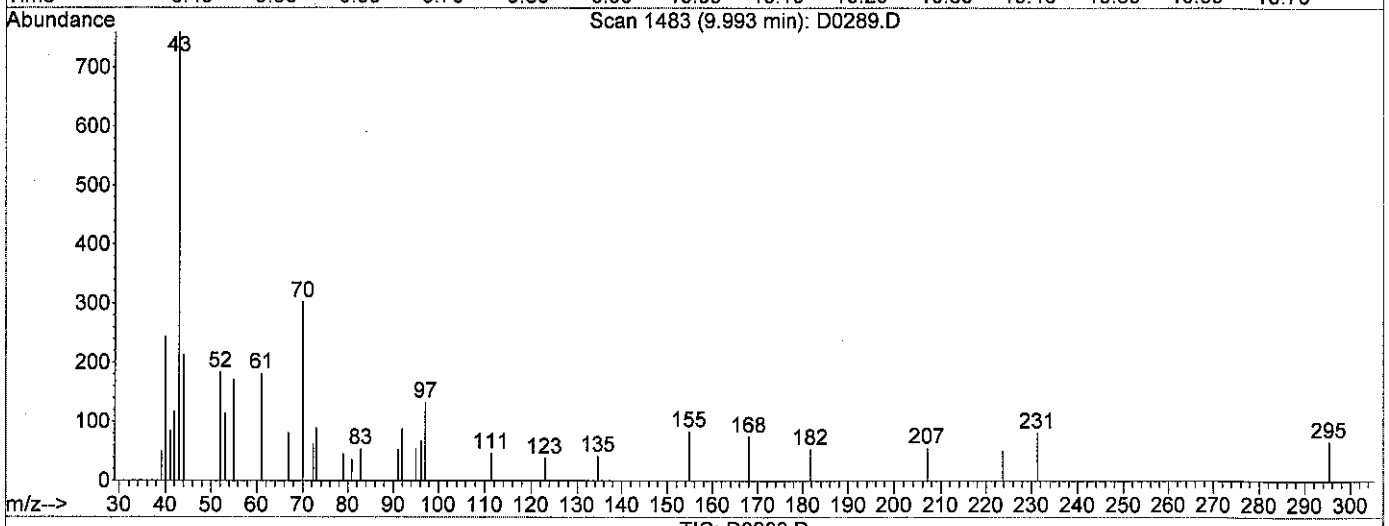
FW 7/18/16

Quantitation Report (Qedit)

Data File : I:\ACQUDATA\MSVOA6\DATA\071416\D0289.D Vial: 13
Acq On : 14 Jul 2016 1:27 pm Operator: D.LIPANI
Sample : STD #1 - 0.5 PPB Inst : MS#6
Misc : 8260C / 624 ICAL GCMS#6 Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Jul 15 11:00 2016 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA6\METHODS\W071416.M (RTE Integrator)
Title : 8260C / 624 WATERS
Last Update : Fri Jul 15 10:51:35 2016
Response via : Multiple Level Calibration





TIC: D0289.D

(85) Amyl Acetate

9.99min 0.38ug/L

response 1397

Ion	Exp%	Act%
43.00	100	100
55.00	24.50	22.40
61.00	26.30	23.85
70.00	42.00	39.79

Manual Integration:

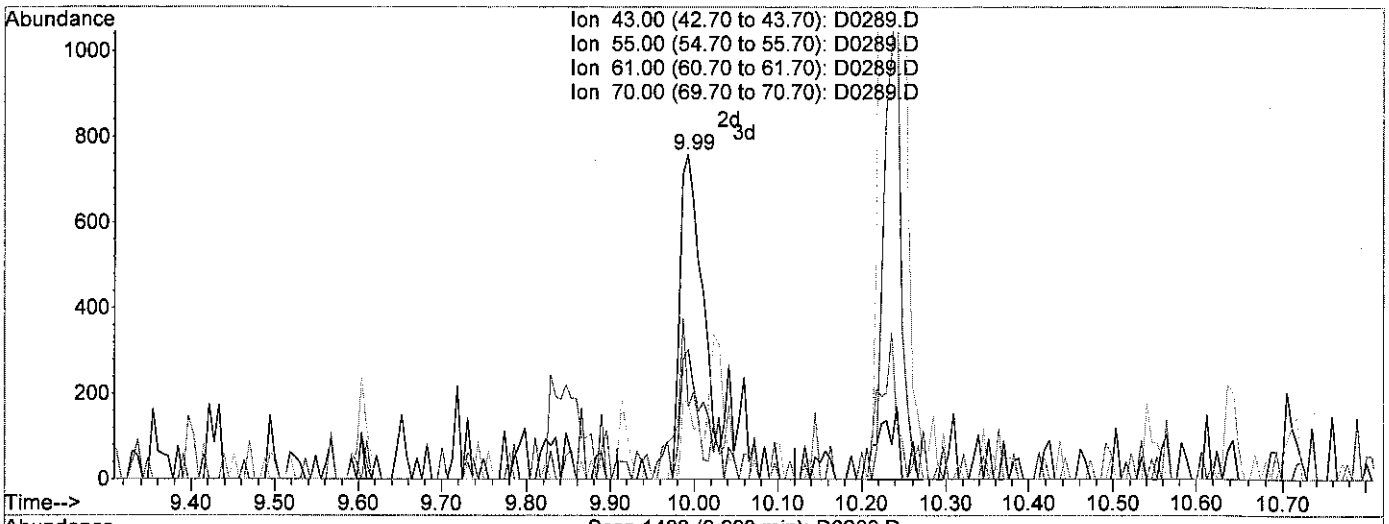
Before

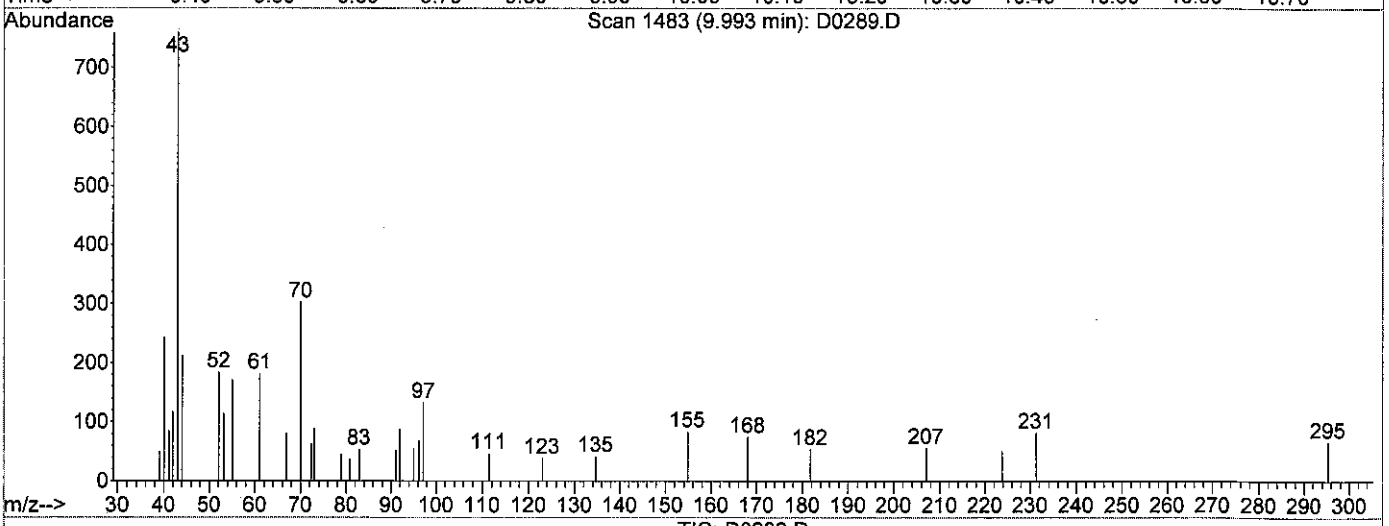
07/15/16

Quantitation Report (Qedit)

Data File : I:\ACQUDATA\MSVOA6\DATA\071416\D0289.D Vial: 13
Acq On : 14 Jul 2016 1:27 pm Operator: D.LIPANI
Sample : STD #1 - 0.5 PPB Inst : MS#6
Misc : 8260C / 624 ICAL GCMS#6 Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Jul 15 11:01 2016 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA6\METHODS\W071416.M (RTE Integrator)
Title : 8260C / 624 WATERS
Last Update : Fri Jul 15 10:51:35 2016
Response via : Multiple Level Calibration





TIC: D0289.D

(85) Amyl Acetate

9.99min 0.47ug/L m

response 1748

Ion	Exp%	Act%
43.00	100	100
55.00	24.50	22.40
61.00	26.30	23.85
70.00	42.00	39.79

Manual Integration:

After

Split Peak.

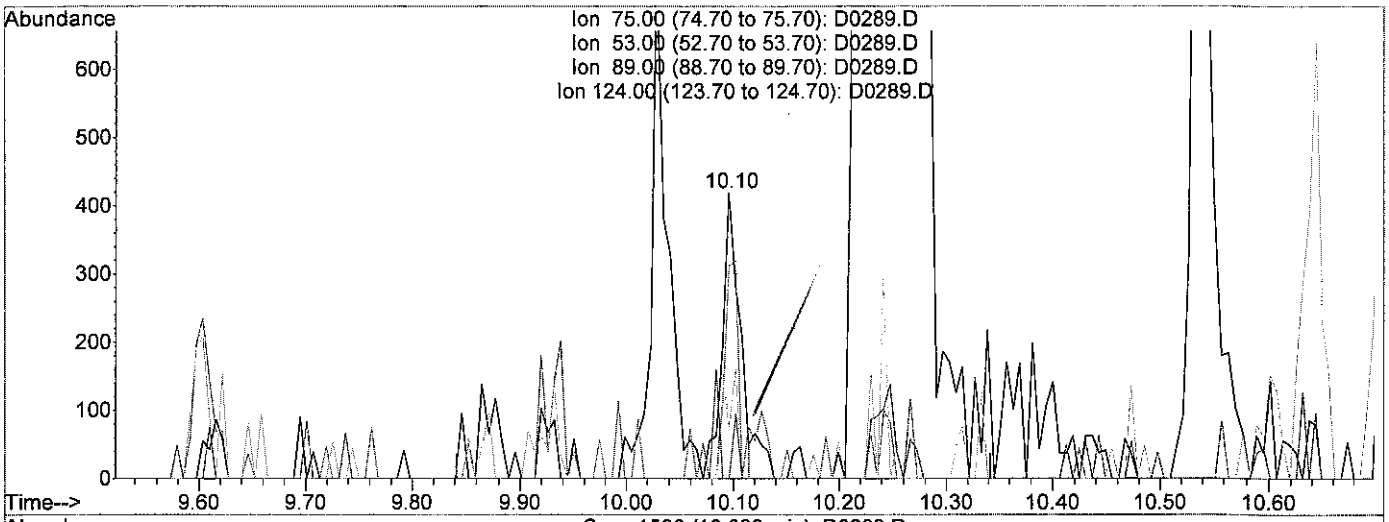
07/15/16 DL

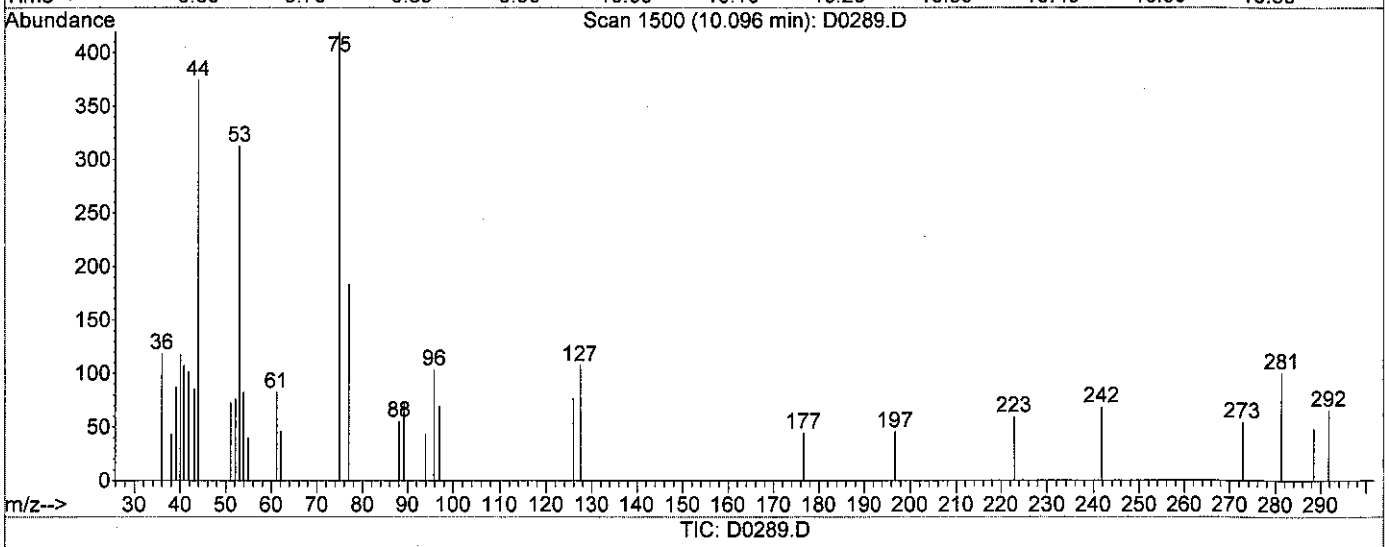
FS 7/18/16

Quantitation Report (Qedit)

Data File : I:\ACQUDATA\MSVOA6\DATA\071416\D0289.D Vial: 13
Acq On : 14 Jul 2016 1:27 pm Operator: D.LIPANI
Sample : STD #1 - 0.5 PPB Inst : MS#6
Misc : 8260C / 624 ICAL GCMS#6 Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Jul 15 11:01 2016 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA6\METHODS\W071416.M (RTE Integrator)
Title : 8260C / 624 WATERS
Last Update : Fri Jul 15 10:51:35 2016
Response via : Multiple Level Calibration





(86) trans-1,4-Dichloro-2-Butene

10.10min 0.55ug/L

response 462

Ion	Exp%	Act%
75.00	100	100
53.00	64.00	74.46
89.00	51.30	17.66#
124.00	16.40	0.00

Manual Integration:

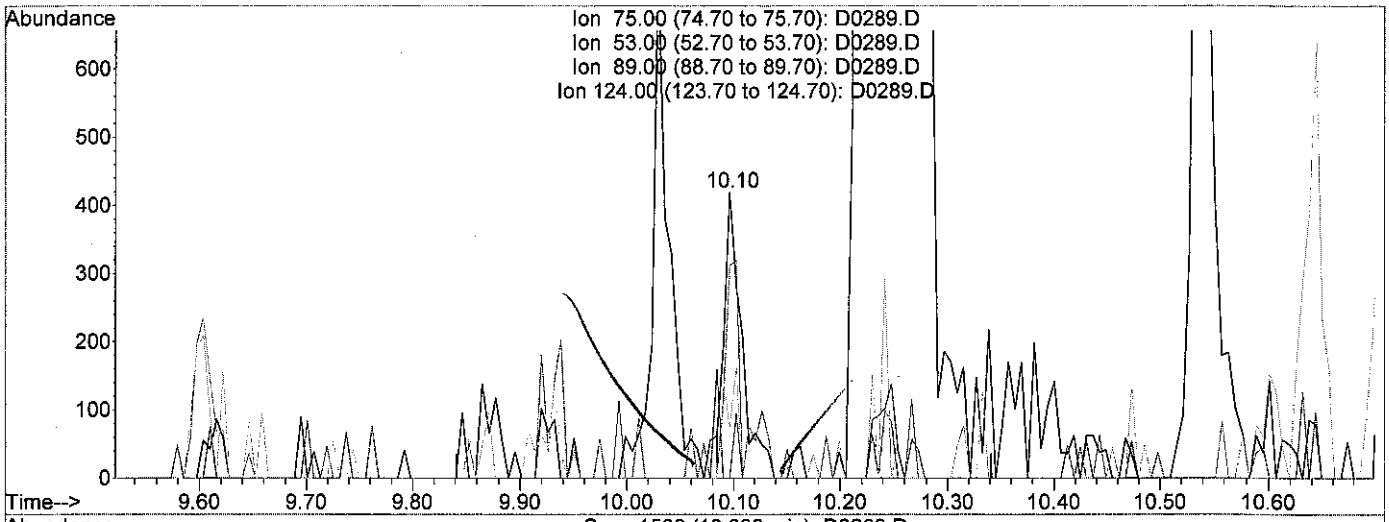
Before

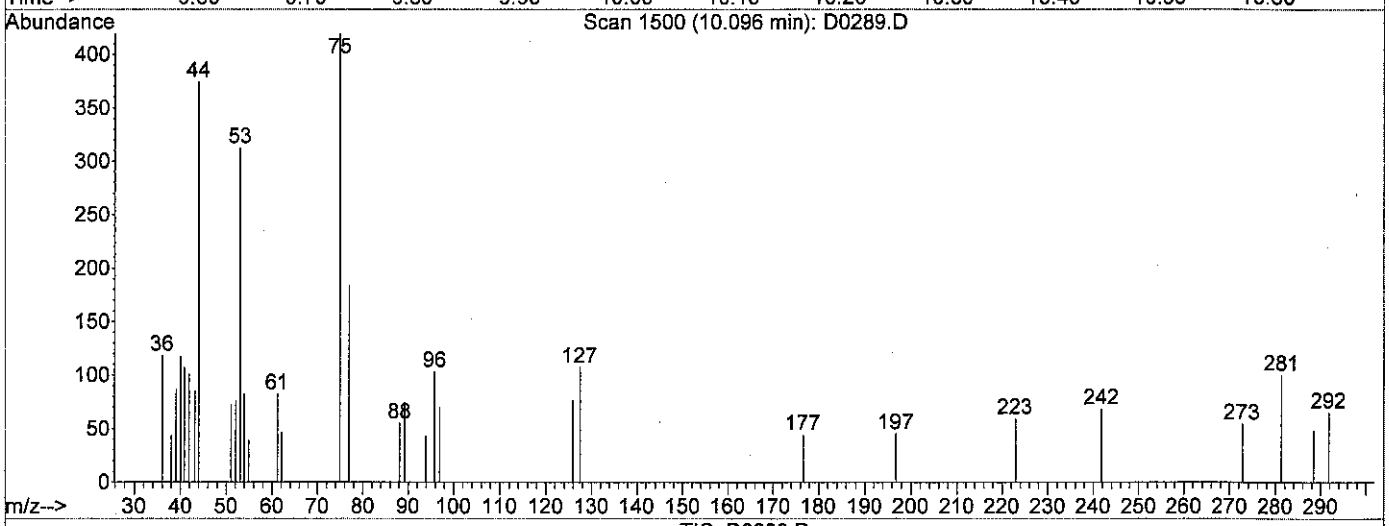
07/15/16

Quantitation Report (Qedit)

Data File : I:\ACQUDATA\MSVOA6\DATA\071416\D0289.D Vial: 13
Acq On : 14 Jul 2016 1:27 pm Operator: D.LIPANI
Sample : STD #1 - 0.5 PPB Inst : MS#6
Misc : 8260C / 624 ICAL GCMS#6 Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Jul 15 11:02 2016 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA6\METHODS\W071416.M (RTE Integrator)
Title : 8260C / 624 WATERS
Last Update : Fri Jul 15 10:51:35 2016
Response via : Multiple Level Calibration





(86) trans-1,4-Dichloro-2-Butene

10.10min 0.57ug/L m

response 476

Ion	Exp%	Act%
75.00	100	100
53.00	64.00	74.46
89.00	51.30	17.66#
124.00	16.40	0.00

Manual Integration:

After

Split Peak.

07/15/16 DL

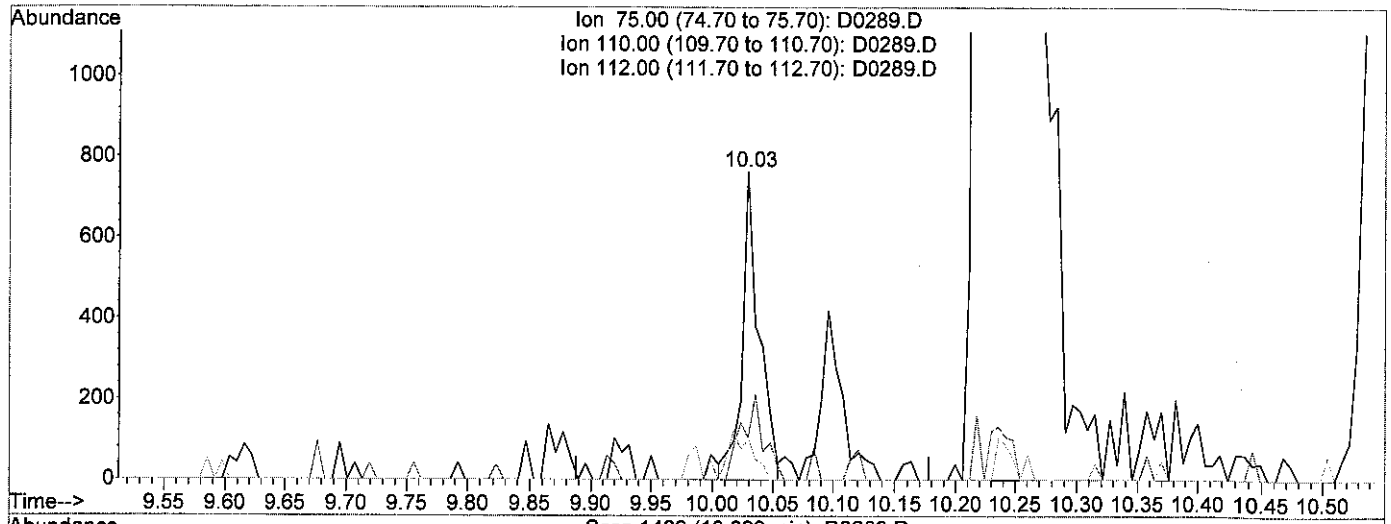
FD 7/18/16

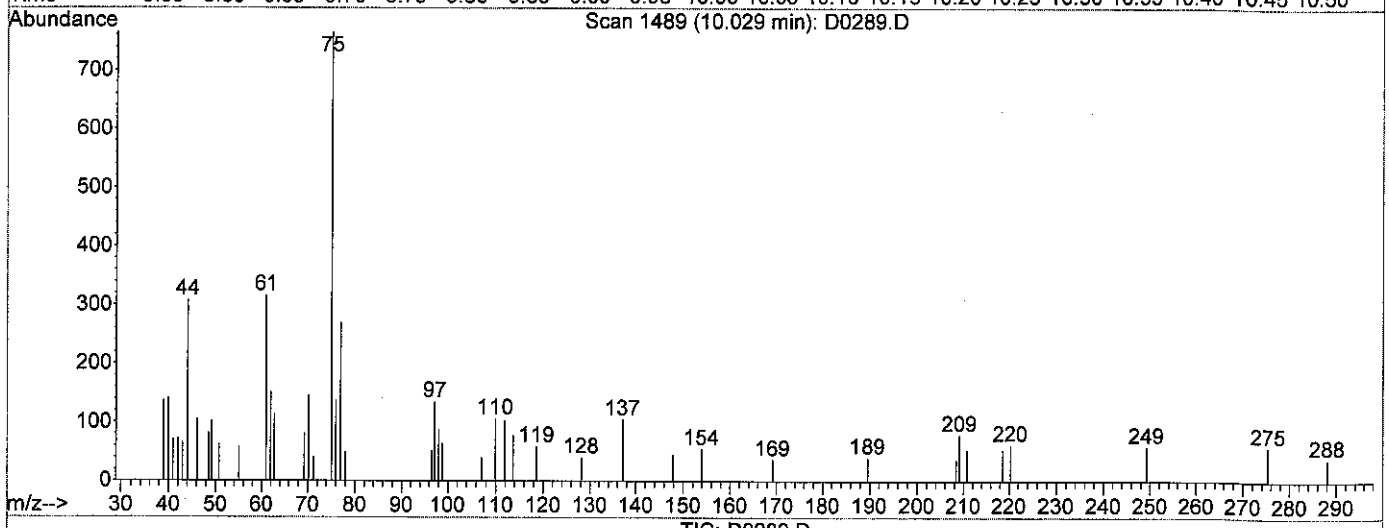
D0289.D W071416.M Fri Jul 15 11:02:21 2016

Quantitation Report (Qedit)

Data File : I:\ACQUDATA\MSVOA6\DATA\071416\D0289.D Vial: 13
Acq On : 14 Jul 2016 1:27 pm Operator: D.LIPANI
Sample : STD #1 - 0.5 PPB Inst : MS#6
Misc : 8260C / 624 ICAL GCMS#6 Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Jul 15 11:02 2016 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA6\METHODS\W071416.M (RTE Integrator)
Title : 8260C / 624 WATERS
Last Update : Fri Jul 15 10:51:35 2016
Response via : Multiple Level Calibration





TIC: D0289.D

(91) 1,2,3-Trichloropropane

10.03min 0.44ug/L

response 743

Ion	Exp%	Act%
75.00	100	100
110.00	37.70	20.19
112.00	23.30	0.00#
0.00	0.00	0.00

Manual Integration:

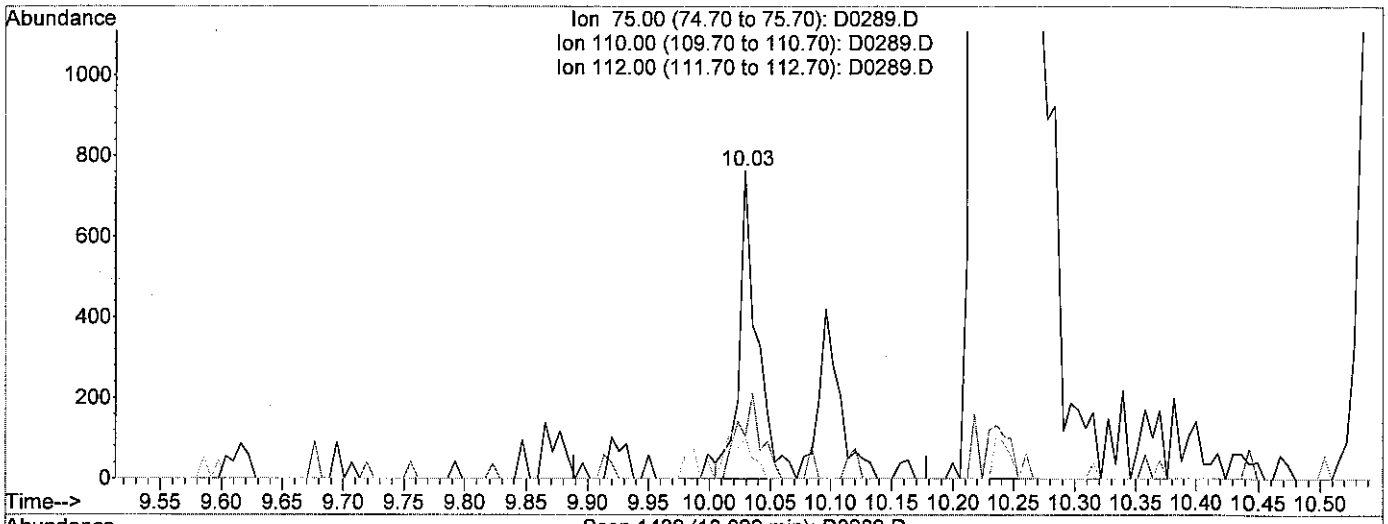
Before

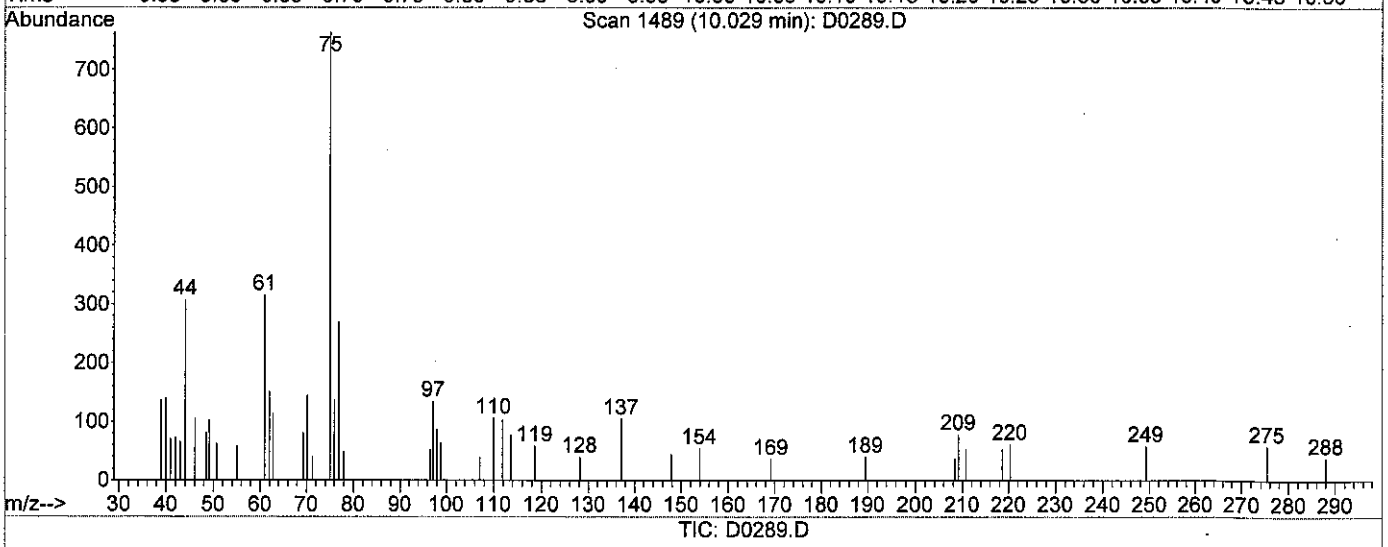
07/15/16

Quantitation Report (Qedit)

Data File : I:\ACQUDATA\MSVOA6\DATA\071416\D0289.D Vial: 13
Acq On : 14 Jul 2016 1:27 pm Operator: D.LIPANI
Sample : STD #1 - 0.5 PPB Inst : MS#6
Misc : 8260C / 624 ICAL GCMS#6 Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Jul 15 11:03 2016 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA6\METHODS\W071416.M (RTE Integrator)
Title : 8260C / 624 WATERS
Last Update : Fri Jul 15 10:51:35 2016
Response via : Multiple Level Calibration





TIC: D0289.D

(91) 1,2,3-Trichloropropane

10.03min 0.46ug/L m

response 779

Ion	Exp%	Act%
75.00	100	100
110.00	37.70	19.26
112.00	23.30	0.00#
0.00	0.00	0.00

Manual Integration:

After

Split Peak.

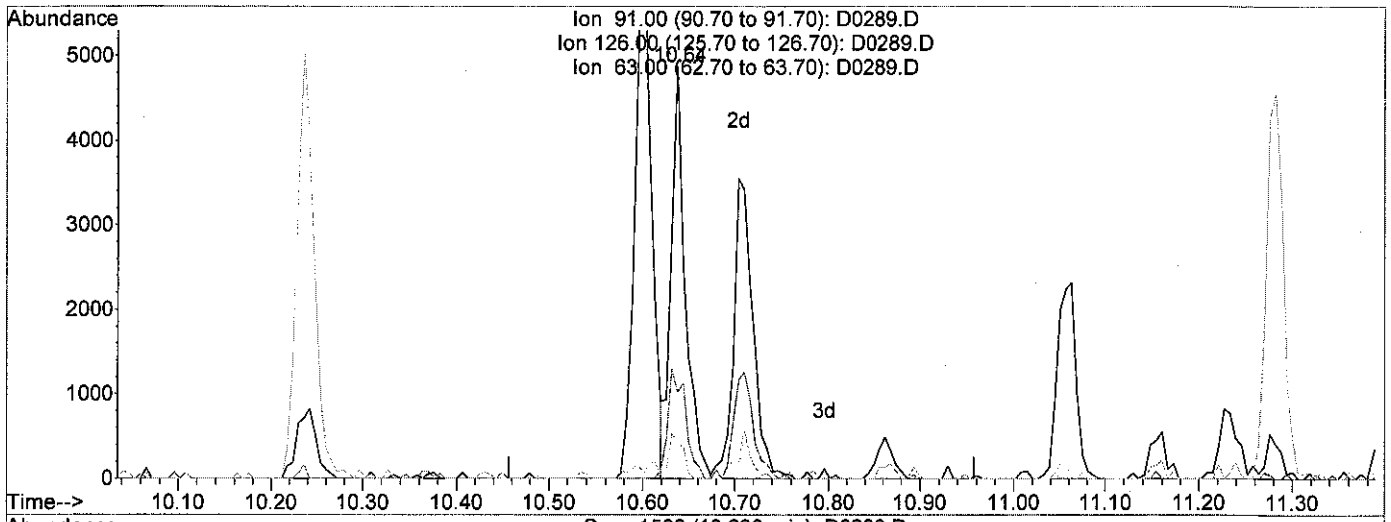
07/15/16 DL

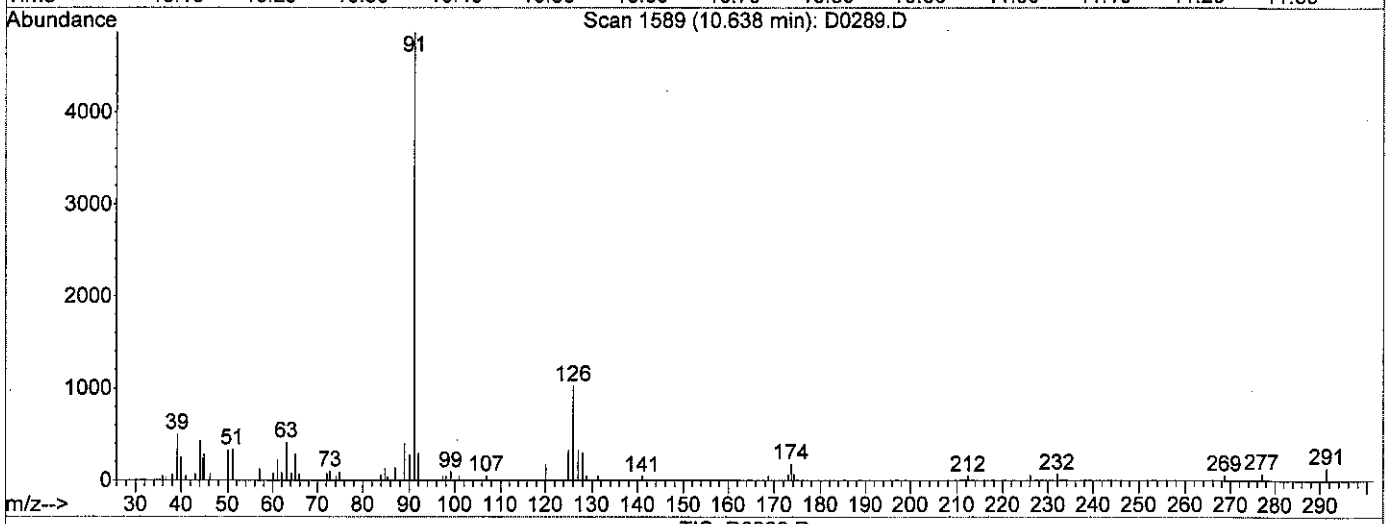
FS 7/18/16

Quantitation Report (Qedit)

Data File : I:\ACQUDATA\MSVOA6\DATA\071416\D0289.D Vial: 13
Acq On : 14 Jul 2016 1:27 pm Operator: D.LIPANI
Sample : STD #1 - 0.5 PPB Inst : MS#6
Misc : 8260C / 624 ICAL GCMS#6 Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Jul 15 11:04 2016 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA6\METHODS\W071416.M (RTE Integrator)
Title : 8260C / 624 WATERS
Last Update : Fri Jul 15 13:11:21 2016
Response via : Multiple Level Calibration





(95) 4-Chlorotoluene

10.64min 0.53ug/L

response 5183

Ion	Exp%	Act%
91.00	100	100
126.00	38.00	33.42
63.00	12.40	10.46
0.00	0.00	0.00

Manual Integration:

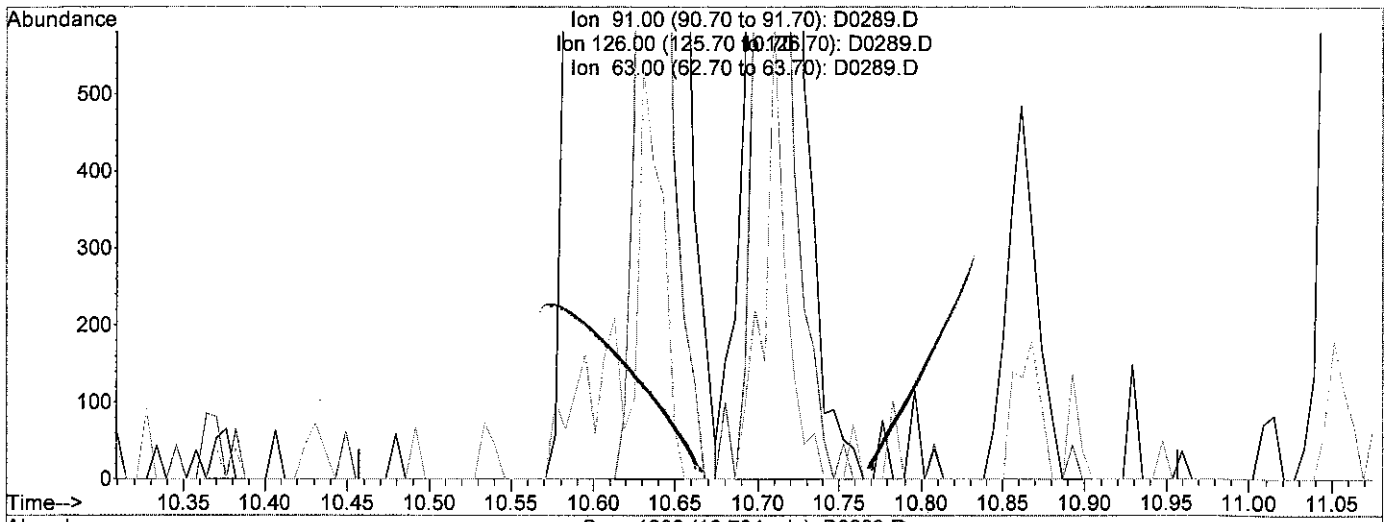
Before

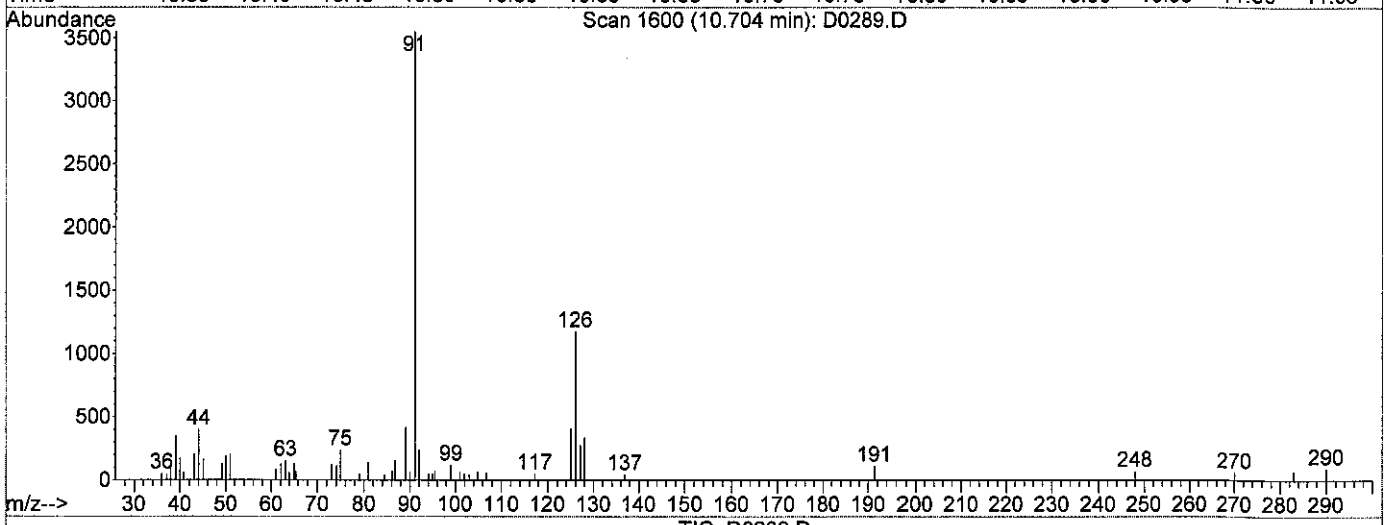
07/18/16

Quantitation Report (Qedit)

Data File : I:\ACQUDATA\MSVOA6\DATA\071416\D0289.D Vial: 13
Acq On : 14 Jul 2016 1:27 pm Operator: D.LIPANI
Sample : STD #1 - 0.5 PPB Inst : MS#6
Misc : 8260C / 624 ICAL GCMS#6 Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Jul 18 16:21 2016 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA6\METHODS\W071416.M (RTE Integrator)
Title : 8260C / 624 WATERS
Last Update : Mon Jul 18 16:20:32 2016
Response via : Multiple Level Calibration





TIC: D0289.D

(95) 4-Chlorotoluene

10.70min 0.53ug/L m

response 5142

Ion	Exp%	Act%
91.00	100	100
126.00	38.00	33.68
63.00	12.40	10.54
0.00	0.00	0.00

Manual Integration:

After

Wrong peak selected.

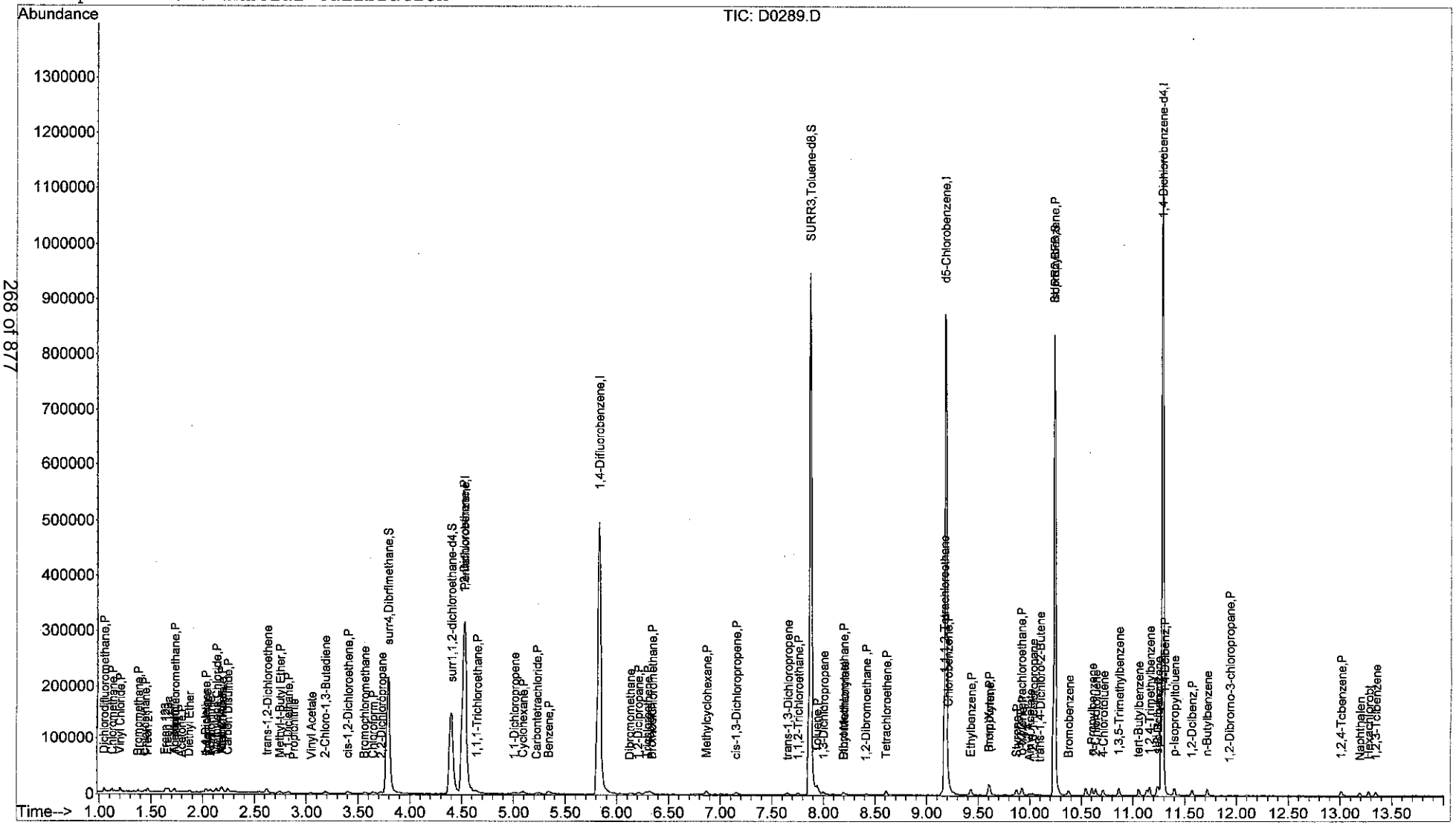
07/18/16 PL

FJ 7/19/16

Quantitation Report

Data File : I:\ACQUDATA\MSVOA6\DATA\071416\D0289.D Vial: 13
Acq On : 14 Jul 2016 1:27 pm Operator: D.LIPANI
Sample : STD #1 - 0.5 PPB Inst : MS#6
Misc : 8260C / 624 ICAL GCMS#6 Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Jul 18 16:21 2016 Quant Results File: W071416.RES

Method : I:\ACQUDATA\MSVOA6\METHODS\W071416.M (RTE Integrator)
Title : 8260C / 624 WATERS
Last Update : Mon Jul 18 16:21:59 2016
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : I:\ACQUDATA\MSVOA6\DATA\071416\D0290.D Vial: 14
Acq On : 14 Jul 2016 2:02 pm Operator: D.LIPANI
Sample : STD #2 - 1.0 PPB Inst : MS#6
Misc : 8260C / 624 ICAL GCMS#6 Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Jul 15 11:17 2016 Quant Results File: W071416.RES

Quant Method : I:\ACQUDATA\M...\W071416.M (RTE Integrator)
Title : 8260C / 624 WATERS
Last Update : Fri Jul 15 11:05:13 2016
Response via : Initial Calibration
DataAcq Meth : W071416

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.53	168	343941	50.00	ug/L	0.00
40) 1,4-Difluorobenzene	5.83	114	500289	50.00	ug/L	0.00
69) d5-Chlorobenzene	9.18	117	419176	50.00	ug/L	0.00
89) 1,4-Dichlorobenzene-d4	11.28	152	243625	50.00	ug/L	0.00
System Monitoring Compounds						
41) surr4,Dibrflmethane	3.79	113	164673	51.12	ug/L	0.00
Spiked Amount 50.000 Range 89 - 119 Recovery = 102.24%						
43) surr1,1,2-dichloroethane-d	4.40	65	145216	50.46	ug/L	0.00
Spiked Amount 50.000 Range 65 - 130 Recovery = 100.92%						
67) SURR3,Toluene-d8	7.87	98	547553	54.41	ug/L	0.00
Spiked Amount 50.000 Range 87 - 121 Recovery = 108.82%						
88) SURR2,BFB	10.24	95	208636	51.81	ug/L	0.00
Spiked Amount 50.000 Range 85 - 122 Recovery = 103.62%						

Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.05	85	4568	0.93	ug/L	90
3) Chloromethane	1.12	50	5506m	1.10	ug/L	
4) Vinyl Chloride	1.20	62	6242	1.11	ug/L	87
5) Bromomethane	1.38	94	2583	1.04	ug/L	94
6) Chloroethane	1.44	64	2939	1.04	ug/L	73
7) Freon 21	1.47	67	7142	1.14	ug/L	89
8) Freon 123	1.64	83	5961	1.14	ug/L	90
9) Freon 123a	1.67	67	4770	1.14	ug/L	87
10) Acrolein	1.72	56	1596	4.95	ug/L	79
11) Trichlorofluoromethane	1.73	101	5462	1.05	ug/L	96
12) Acetonitrile	1.73	41	1310	5.73	ug/L #	72
13) 2-Propanol	1.77	45	2020	21.61	ug/L	81
15) Diethyl Ether	1.87	59	2309	1.02	ug/L #	73
16) 1,1-Diclethene	2.03	96	3630	1.09	ug/L	91
17) Iodomethane	2.04	142	1542	1.29	ug/L	72
18) TBA	2.06	59	3033	20.93	ug/L	83
19) Acrylonitrile	2.08	53	3542	4.86	ug/L	93
20) Methylene Chloride	2.13	84	4161	1.15	ug/L #	82
21) Freon 113	2.18	101	3748	1.08	ug/L	87
22) Methyl Acetate	2.18	43	1704	1.12	ug/L	87
23) Allyl Chloride	2.20	76	2120	1.08	ug/L #	75
24) Carbon Disulfide	2.24	76	11095	1.00	ug/L	92
25) trans-1,2-Dichloroethene	2.62	96	3730	1.06	ug/L #	81
26) Methyl-t-Butyl Ether	2.74	73	6462	0.99	ug/L	99
27) 1,1-Diclethane	2.83	63	5656	1.03	ug/L	93
28) Propionitrile	2.87	54	919	4.01	ug/L	80
29) Vinyl Acetate	3.04	43	4344m	0.93	ug/L	
30) 2-Chloro-1,3-Butadiene	3.19	53	5184	1.06	ug/L	96
32) Methacrylonitrile	3.40	67	749	0.96	ug/L #	67
33) cis-1,2-Dichloroethene	3.40	96	3666	1.02	ug/L #	63
34) Bromochloromethane	3.58	128	1833	1.18	ug/L #	54
35) Chloroform	3.66	83	6123	1.04	ug/L #	75
36) 2,2-Dichloropropane	3.72	77	5112	1.07	ug/L	94
37) Ethyl Acetate	3.78	43	2355m	1.47	ug/L	
39) 1,1,1-Trichloroethane	4.64	97	4700	1.00	ug/L	77

DL 7/15/16

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

Quantitation Report (QT Reviewed)

Data File : I:\ACQUDATA\MSVOA6\DATA\071416\D0290.D Vial: 14
Acq On : 14 Jul 2016 2:02 pm Operator: D.LIPANI
Sample : STD #2 - 1.0 PPB Inst : MS#6
Misc : 8260C / 624 ICAL GCMS#6 Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Jul 15 11:17 2016 Quant Results File: W071416.RES

Quant Method : I:\ACQUDATA\M...\W071416.M (RTE Integrator)
Title : 8260C / 624 WATERS
Last Update : Fri Jul 15 11:05:13 2016
Response via : Initial Calibration
DataAcq Meth : W071416

	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
44)	1,2-Dichloroethane	4.52	64	1215	1.11 ug/L	#	38
45)	2-Methyl-1,3-Dioxolane	4.80	73	945m	4.69 ug/L		
46)	1,1-Dichloropropene	5.01	75	4546m	1.06 ug/L		
47)	Cyclohexane	5.10	56	5357m	1.05 ug/L		
48)	Carbontetrachloride	5.24	119	4240	1.03 ug/L	#	83
49)	Benzene	5.33	78	13975	1.11 ug/L		97
51)	Dibromomethane	6.13	93	1365	0.88 ug/L	#	84
52)	1,2-Diclpropane	6.21	63	2985	0.93 ug/L		85
53)	n-Heptane	6.31	43	3526	0.93 ug/L		91
54)	Trichloroethene	6.28	130	3188	0.96 ug/L		92
55)	Bromodichloromethane	6.33	83	4336	1.06 ug/L		94
58)	Epichlorohydrin	6.75	57	877m	5.41 ug/L		
59)	Methyl Methacrylate	6.75	69	1148	0.89 ug/L	#	38
61)	Methylcyclohexane	6.87	55	4014	1.09 ug/L		93
62)	2-Chloroethylvinyl Ether	7.00	63	1508	1.04 ug/L		89
63)	cis-1,3-Dichloropropene	7.15	75	4358	0.95 ug/L		84
65)	trans-1,3-Dichloropropene	7.65	75	3293	0.91 ug/L	#	77
66)	1,1,2-Trichloroethane	7.76	97	2178	1.03 ug/L		92
68)	Toluene	7.94	91	14379	1.11 ug/L		90
70)	1,3-Dichloropropane	8.00	76	3326	1.00 ug/L		88
71)	Ethyl Methacrylate	8.19	69	2491	0.99 ug/L	#	73
72)	Dibromochloromethane	8.19	129	2580	0.98 ug/L		98
74)	1,2-Dibromoethane	8.41	107	2161	0.98 ug/L		96
75)	n-Butyl Acetate	8.63	43	2268m	0.86 ug/L		
76)	Tetrachloroethene	8.61	164	2812	1.02 ug/L		90
77)	1,1,1,2-Tetrachloroethane	9.15	131	2930	1.05 ug/L	#	76
78)	Chlorobenzene	9.21	112	8567	1.06 ug/L		96
79)	Ethylbenzene	9.43	106	5135	1.17 ug/L		98
80)	Bromoform	9.61	173	1361	0.93 ug/L	#	40
81)	(m+p)Xylene	9.61	106	11411	2.21 ug/L		92
82)	o-Xylene	9.92	106	5460	1.09 ug/L		98
83)	Cyclohexanone	9.83	55	818	17.20 ug/L	#	76
84)	Styrene	9.87	104	8017	1.01 ug/L		91
85)	Amyl Acetate	9.99	43	3663	1.00 ug/L		76
86)	trans-1,4-Dichloro-2-Buten	10.10	75	785	0.94 ug/L	#	76
87)	Isopropylbenzene	10.24	105	13839	1.05 ug/L		89
90)	1,1,2,2-Tetrachloroethane	9.92	83	2831	1.14 ug/L		90
91)	1,2,3-Trichloropropane	10.03	75	1965	1.16 ug/L		96
92)	Bromobenzene	10.38	156	3672	0.94 ug/L	#	85
93)	n-Propylbenzene	10.60	91	16526	1.09 ug/L		97
94)	2-Chlorotoluene	10.64	91	10178	1.09 ug/L		88
95)	4-Chlorotoluene	10.70	91	10419	1.07 ug/L		96
96)	1,3,5-Trimethylbenzene	10.86	105	11620	1.09 ug/L		93
97)	tert-Butylbenzene	11.06	119	9435	1.07 ug/L		96
98)	1,2,4-Trimethylbenzene	11.16	105	11796	1.07 ug/L		97
99)	sec-Butylbenzene	11.23	105	13014	1.01 ug/L		95
100)	1,3-Dclbenz	11.25	146	6843	0.97 ug/L		94
101)	1,4-Dclbenz	11.30	146	7149	0.99 ug/L	#	68
102)	p-Isopropyltoluene	11.40	119	11255	1.01 ug/L		93
103)	1,2-Dclbenz	11.57	146	6645	1.02 ug/L		98

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

Quantitation Report (QT Reviewed)

Data File : I:\ACQUDATA\MSVOA6\DATA\071416\D0290.D Vial: 14
Acq On : 14 Jul 2016 2:02 pm Operator: D.LIPANI
Sample : STD #2 - 1.0 PPB Inst : MS#6
Misc : 8260C / 624 ICAL GCMS#6 Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Jul 15 11:17 2016 Quant Results File: W071416.RES

Quant Method : I:\ACQUDATA\M...\W071416.M (RTE Integrator)
Title : 8260C / 624 WATERS
Last Update : Fri Jul 15 11:05:13 2016
Response via : Initial Calibration
DataAcq Meth : W071416

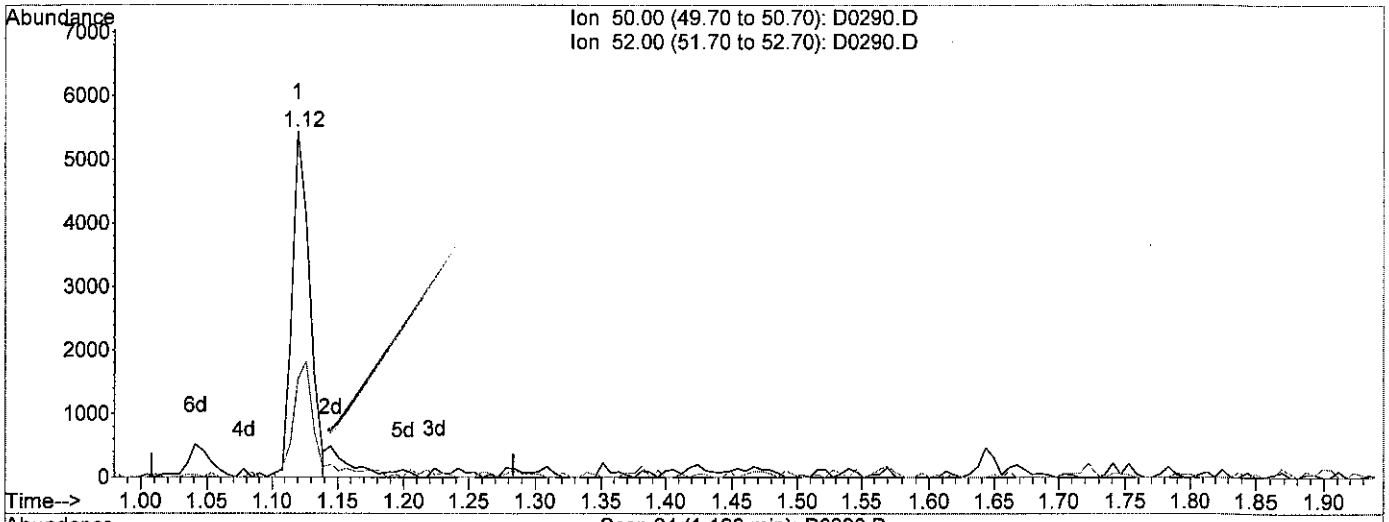
	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
104)	n-Butylbenzene	11.72	91	9513	0.94 ug/L	98
105)	1,2-Dibromo-3-chloropropan	11.93	75	370	0.97 ug/L	92
107)	1,2,4-Tcbenzene	13.00	180	4832	1.14 ug/L	89
108)	Naphthalen	13.19	128	6611	0.97 ug/L	99
109)	Hexachlorobt	13.28	225	1840	0.87 ug/L #	80
110)	1,2,3-Tclbenzene	13.34	180	3442	1.04 ug/L	96

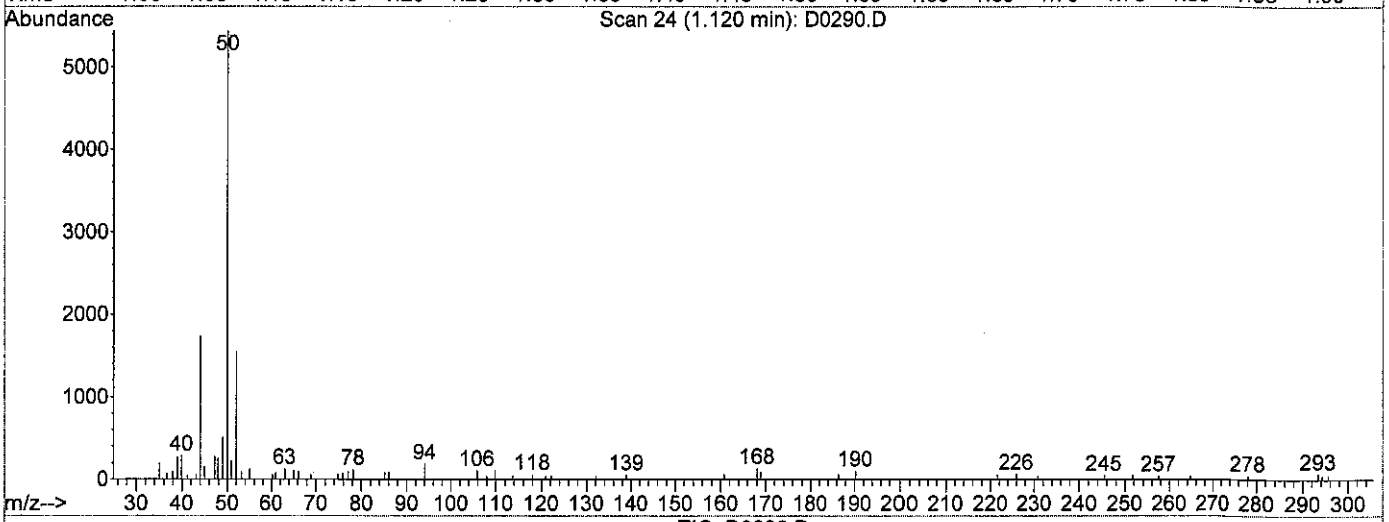
(#) = qualifier out of range (m) = manual integration

Quantitation Report (Qedit)

Data File : I:\ACQUDATA\MSVOA6\DATA\071416\D0290.D Vial: 14
Acq On : 14 Jul 2016 2:02 pm Operator: D.LIPANI
Sample : STD #2 - 1.0 PPB Inst : MS#6
Misc : 8260C / 624 ICAL GCMS#6 Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Jul 15 11:05 2016 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA6\METHODS\W071416.M (RTE Integrator)
Title : 8260C / 624 WATERS
Last Update : Fri Jul 15 11:05:13 2016
Response via : Multiple Level Calibration





TIC: D0290.D

(3) Chloromethane (P)

1.12min 1.00ug/L

response 5018

Ion	Exp%	Act%
50.00	100	100
52.00	34.40	28.37
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

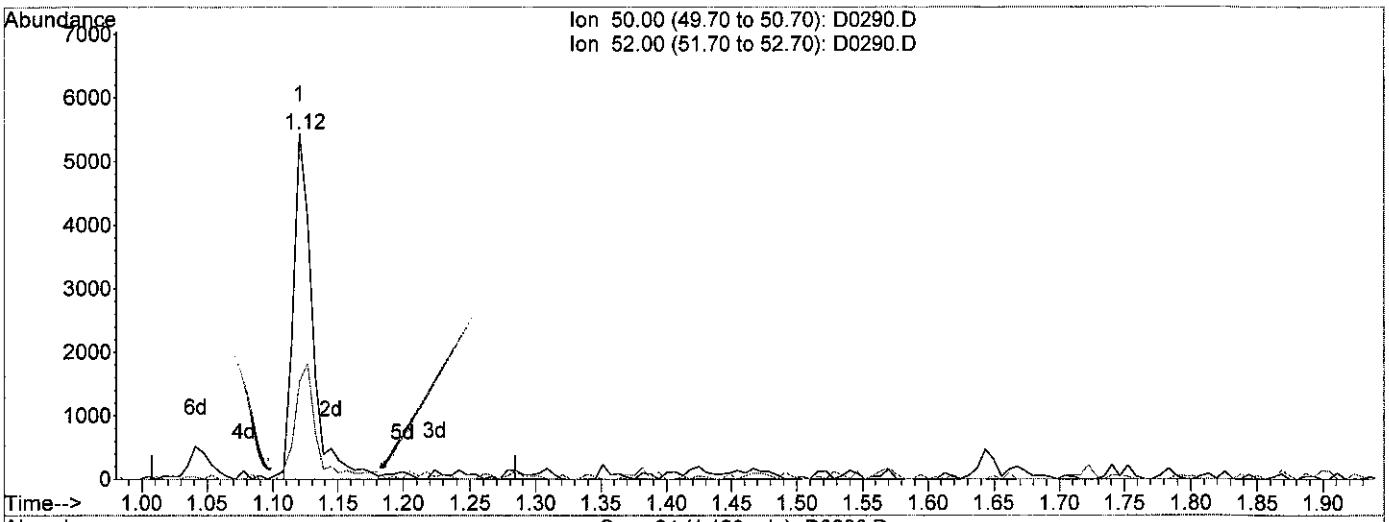
Before

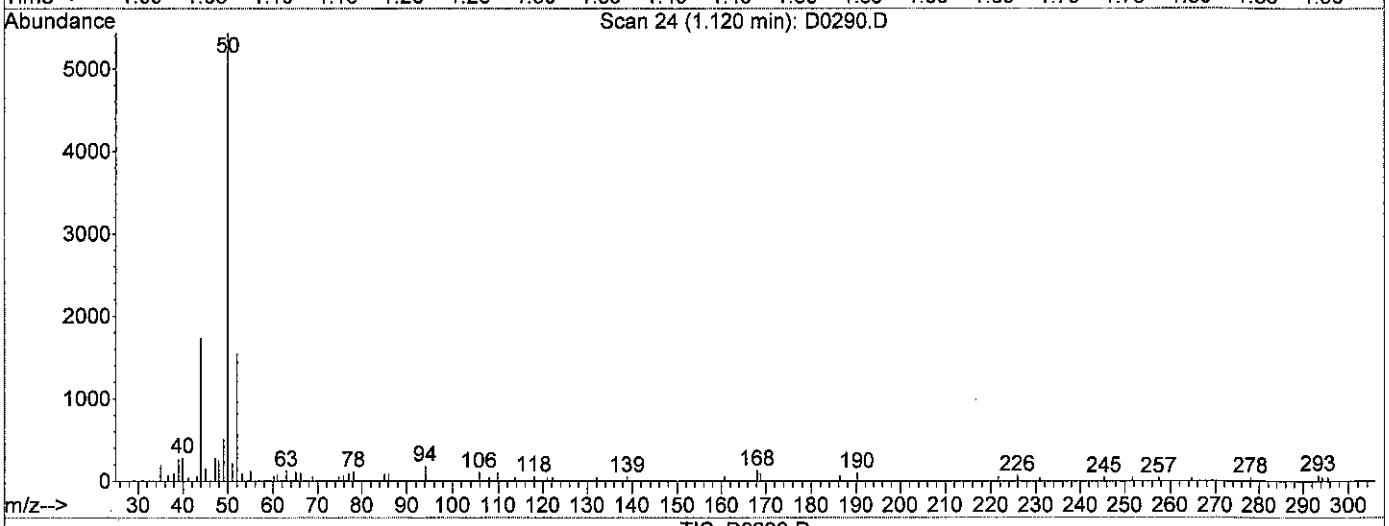
07/15/16

Quantitation Report (Qedit)

Data File : I:\ACQUDATA\MSVOA6\DATA\071416\D0290.D Vial: 14
Acq On : 14 Jul 2016 2:02 pm Operator: D.LIPANI
Sample : STD #2 - 1.0 PPB Inst : MS#6
Misc : 8260C / 624 ICAL GCMS#6 Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Jul 15 11:05 2016 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA6\METHODS\W071416.M (RTE Integrator)
Title : 8260C / 624 WATERS
Last Update : Fri Jul 15 11:05:13 2016
Response via : Multiple Level Calibration





TIC: D0290.D

(3) Chloromethane (P)

1.12min 1.10ug/L m

response 5506

Ion	Exp%	Act%
50.00	100	100
52.00	34.40	28.37
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

Poor integration.

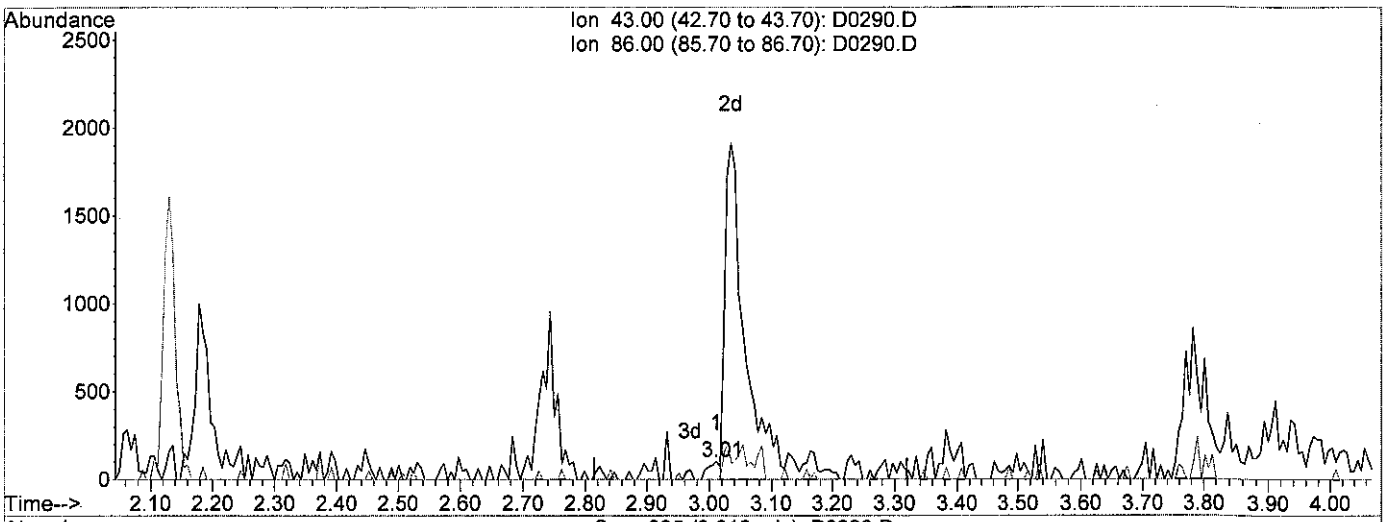
07/15/16 DL

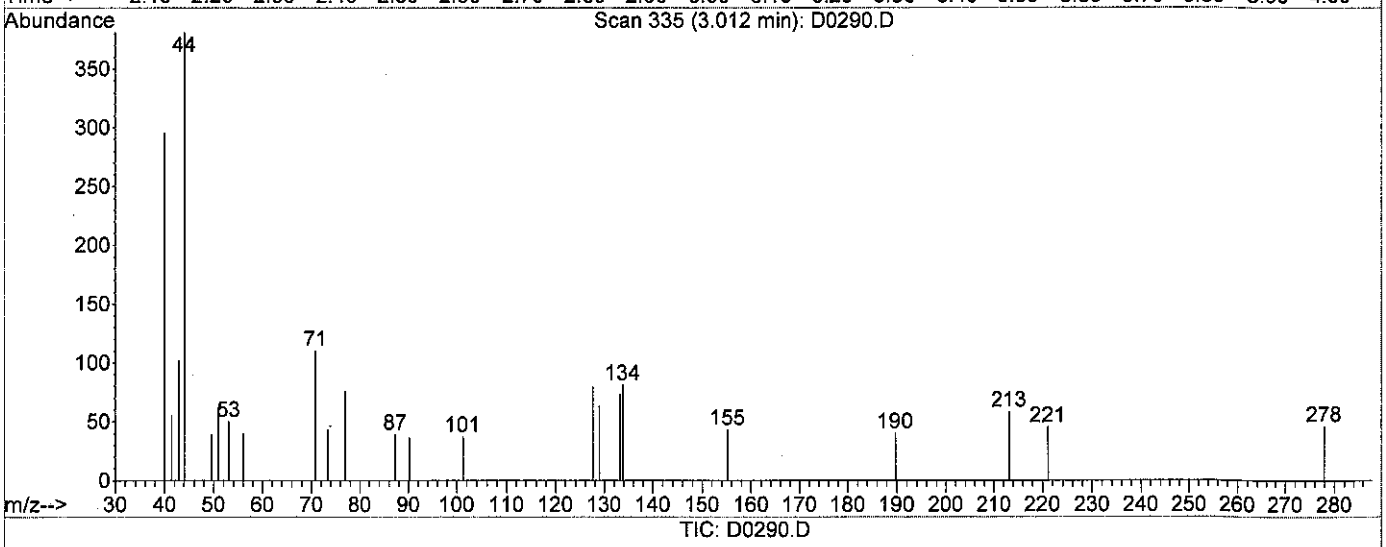
FU 7/18/16

Quantitation Report (Qedit)

Data File : I:\ACQUDATA\MSVOA6\DATA\071416\D0290.D Vial: 14
Acq On : 14 Jul 2016 2:02 pm Operator: D.LIPANI
Sample : STD #2 - 1.0 PPB Inst : MS#6
Misc : 8260C / 624 ICAL GCMS#6 Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Jul 15 11:06 2016 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA6\METHODS\W071416.M (RTE Integrator)
Title : 8260C / 624 WATERS
Last Update : Fri Jul 15 11:05:13 2016
Response via : Multiple Level Calibration





(29) Vinyl Acetate

3.01min 0.03ug/L

response 141

Ion	Exp%	Act%
43.00	100	100
86.00	8.20	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

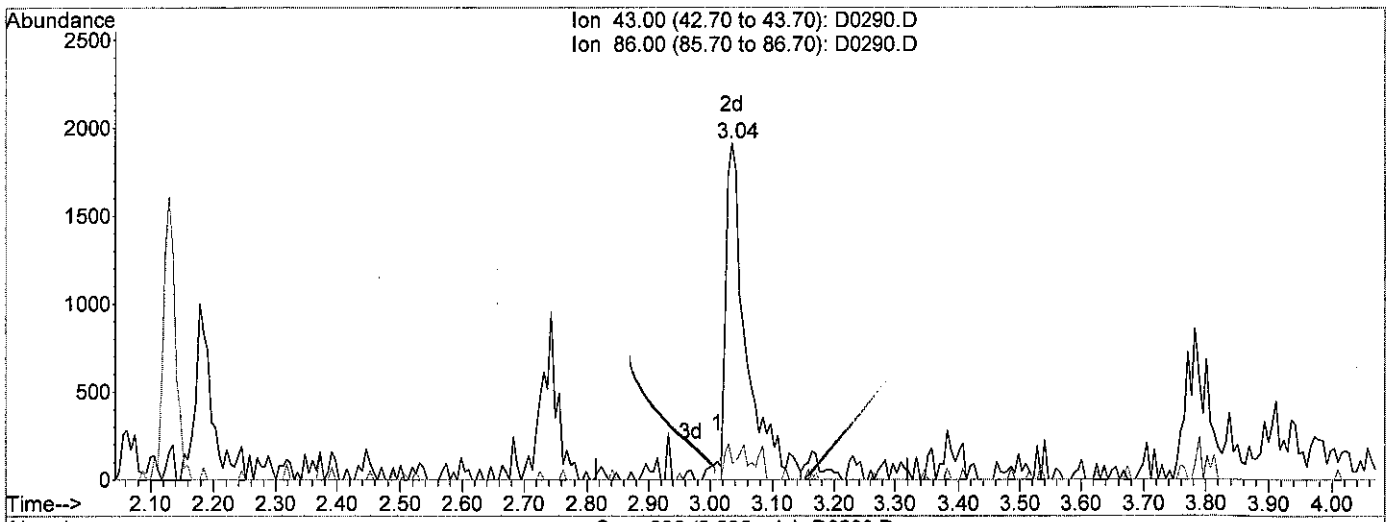
Before

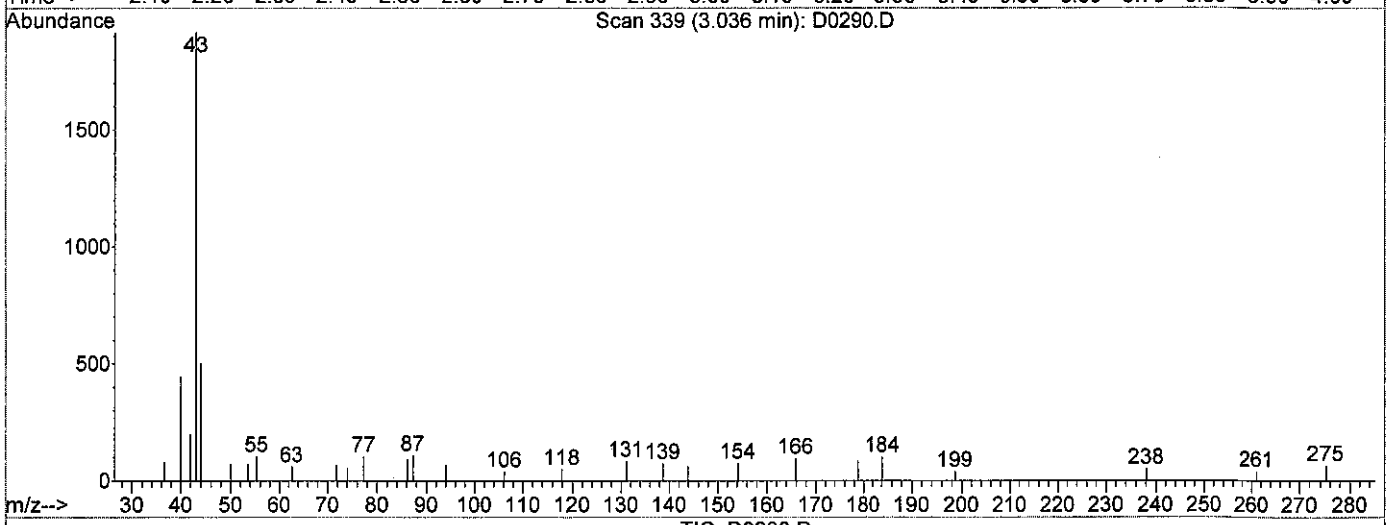
07/15/16

Quantitation Report (Qedit)

Data File : I:\ACQUDATA\MSVOA6\DATA\071416\D0290.D Vial: 14
Acq On : 14 Jul 2016 2:02 pm Operator: D.LIPANI
Sample : STD #2 - 1.0 PPB Inst : MS#6
Misc : 8260C / 624 ICAL GCMS#6 Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Jul 15 11:07 2016 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA6\METHODS\W071416.M (RTE Integrator)
Title : 8260C / 624 WATERS
Last Update : Fri Jul 15 11:05:13 2016
Response via : Multiple Level Calibration





TIC: D0290.D

(29) Vinyl Acetate

3.04min 0.93ug/L m

response 4344

Ion	Exp%	Act%
43.00	100	100
86.00	8.20	4.70
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

Peak not found.

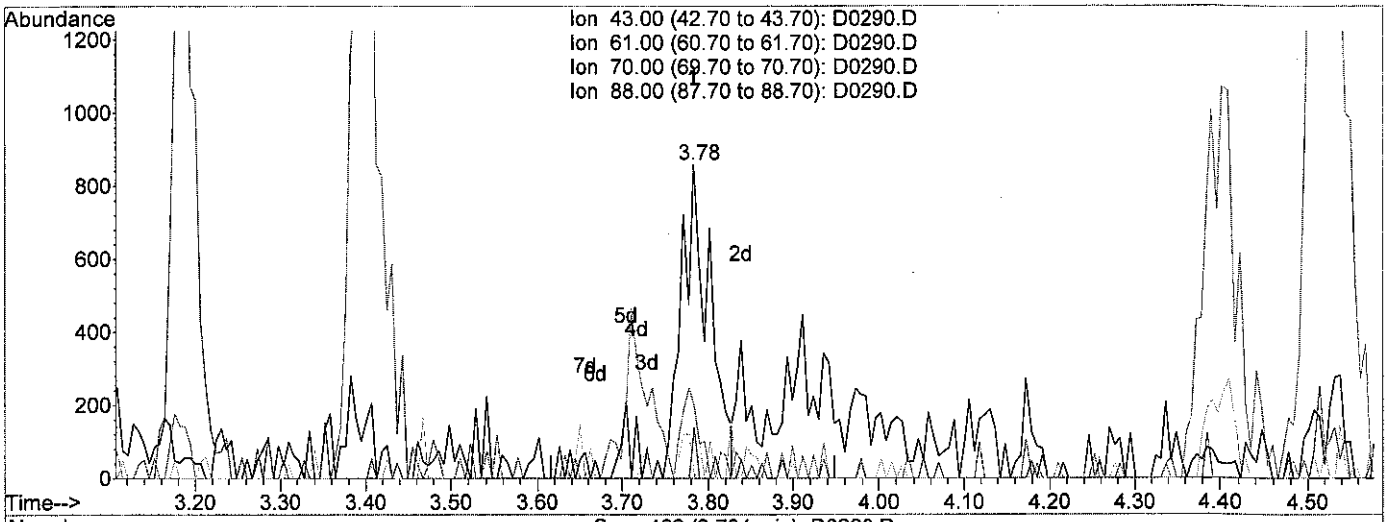
07/15/16 DL

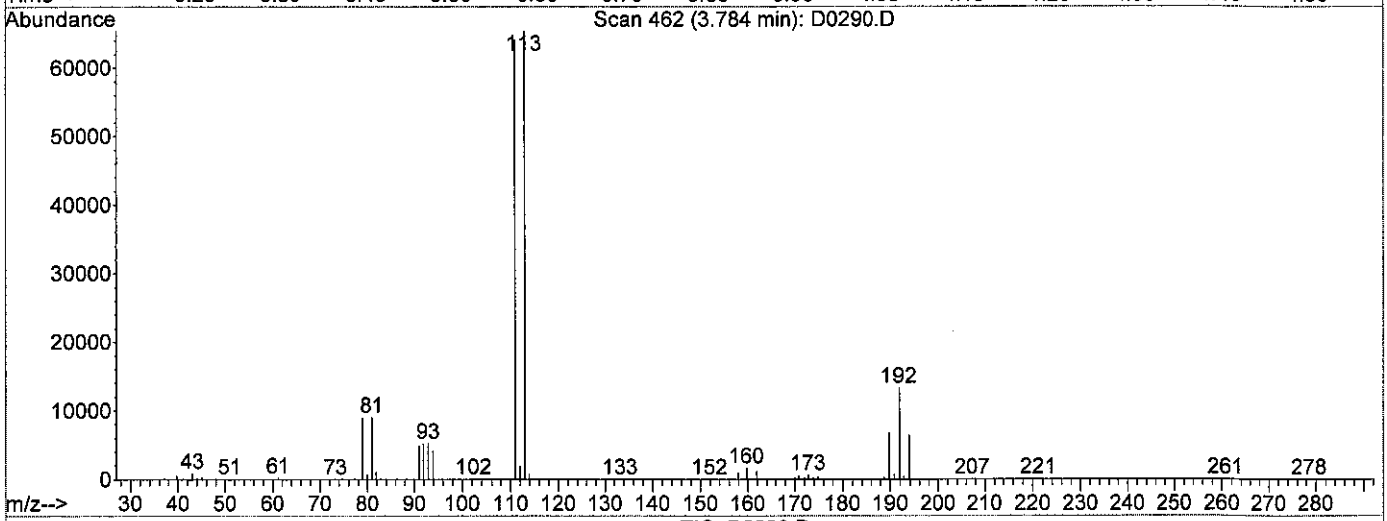
KJ 7/18/16

Quantitation Report (Qedit)

Data File : I:\ACQUDATA\MSVOA6\DATA\071416\D0290.D Vial: 14
Acq On : 14 Jul 2016 2:02 pm Operator: D.LIPANI
Sample : STD #2 - 1.0 PPB Inst : MS#6
Misc : 8260C / 624 ICAL GCMS#6 Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Jul 15 11:07 2016 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA6\METHODS\W071416.M (RTE Integrator)
Title : 8260C / 624 WATERS
Last Update : Fri Jul 15 11:05:13 2016
Response via : Multiple Level Calibration





(37) Ethyl Acetate

3.78min 1.21ug/L

response 1944

Ion	Exp%	Act%
43.00	100	100
61.00	20.90	23.19
70.00	11.50	0.00
88.00	3.80	16.08

Manual Integration:

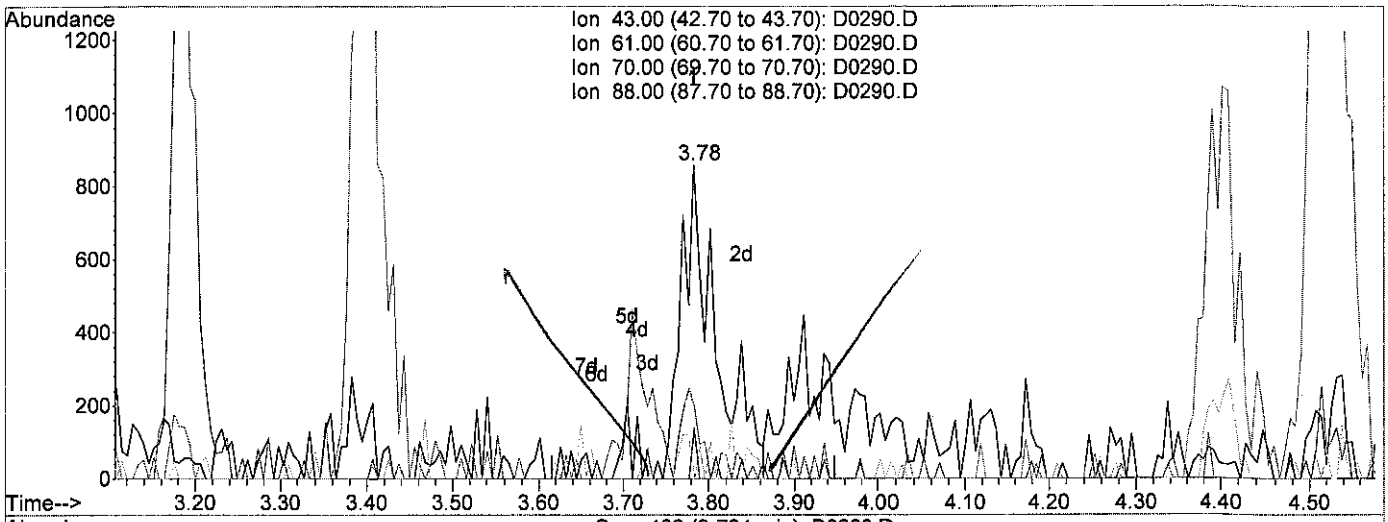
Before

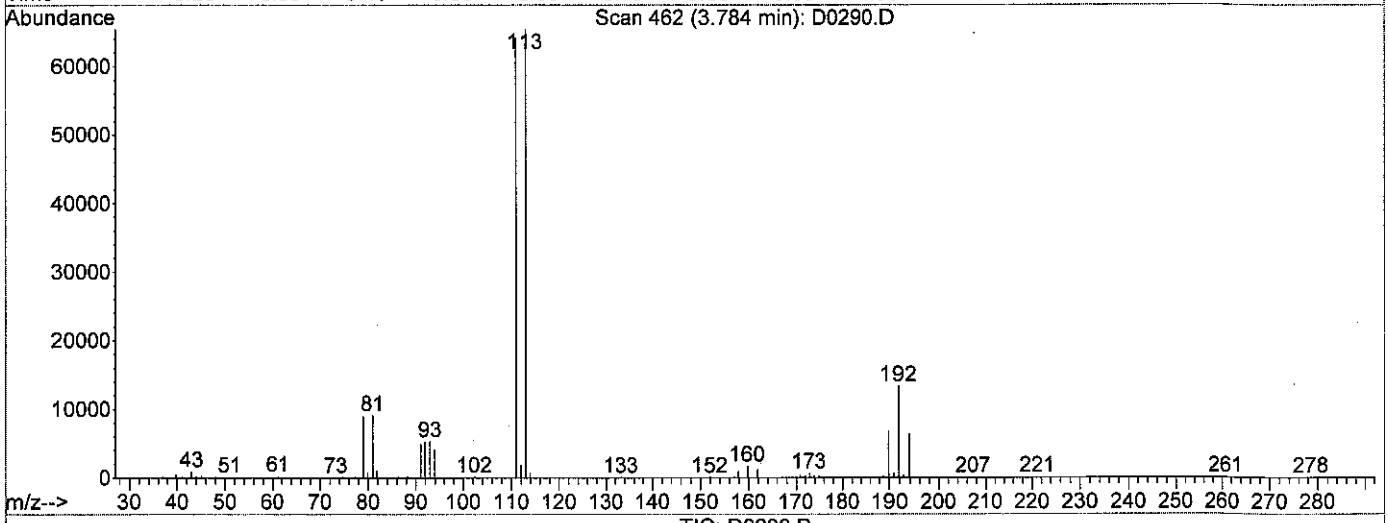
07/15/16

Quantitation Report (Qedit)

Data File : I:\ACQUDATA\MSVOA6\DATA\071416\D0290.D Vial: 14
Acq On : 14 Jul 2016 2:02 pm Operator: D.LIPANI
Sample : STD #2 - 1.0 PPB Inst : MS#6
Misc : 8260C / 624 ICAL GCMS#6 Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Jul 15 11:08 2016 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA6\METHODS\W071416.M (RTE Integrator)
Title : 8260C / 624 WATERS
Last Update : Fri Jul 15 11:05:13 2016
Response via : Multiple Level Calibration





(37) Ethyl Acetate

3.78min 1.47ug/L m

response 2355

Ion	Exp%	Act%
43.00	100	100
61.00	20.90	23.19
70.00	11.50	0.00
88.00	3.80	16.08

Manual Integration:

After

Split Peak.

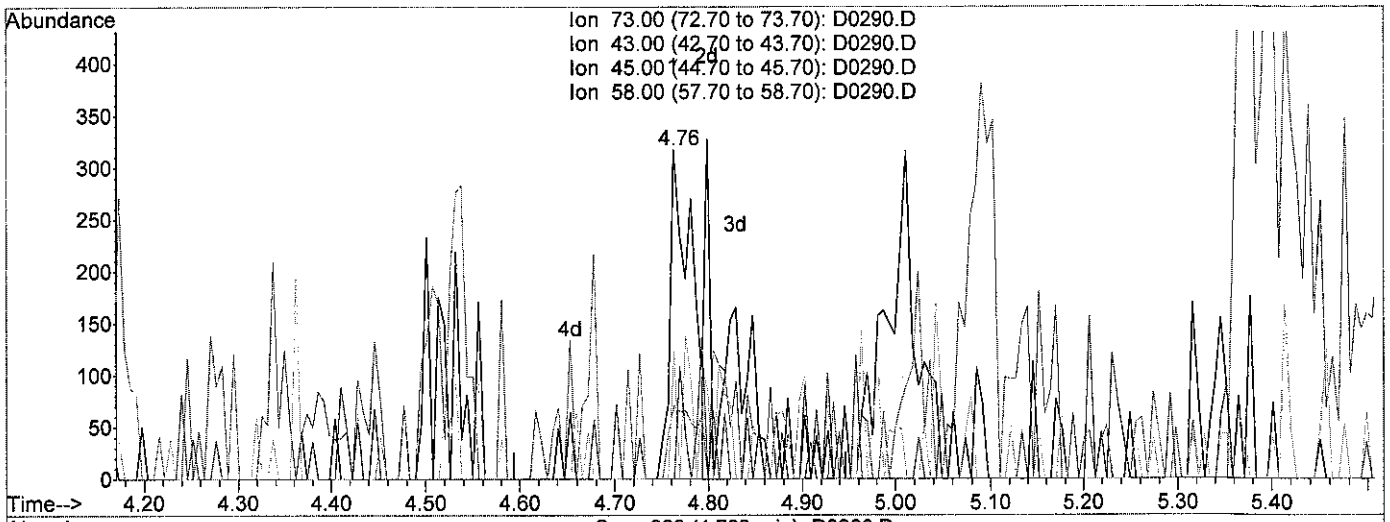
07/15/16 DL

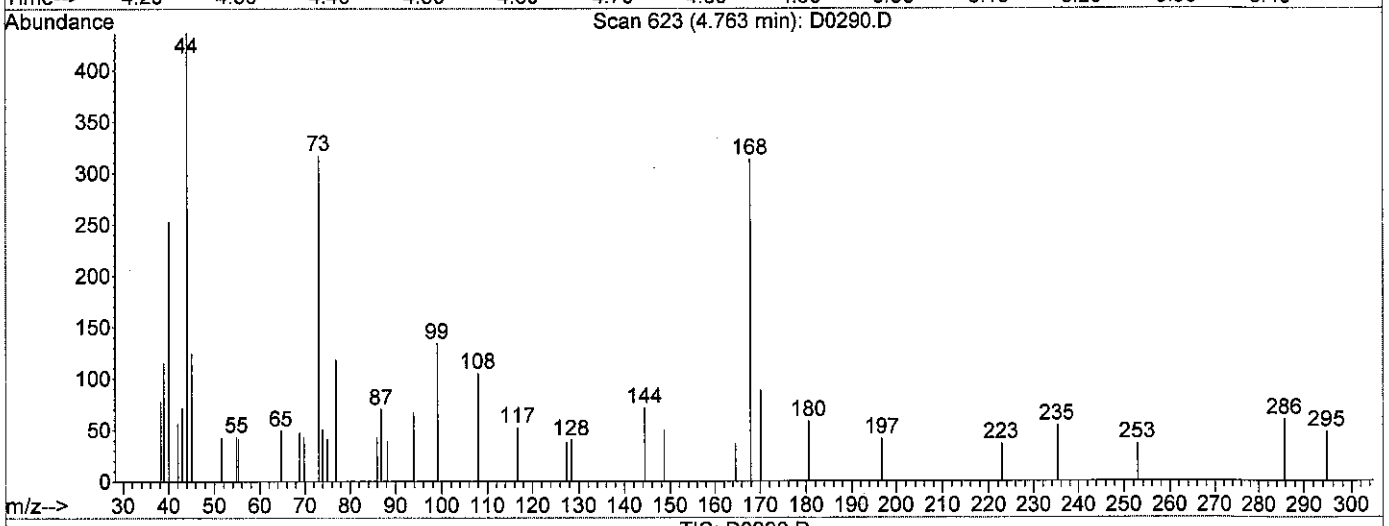
FW 7/18/16

Quantitation Report (Qedit)

Data File : I:\ACQUDATA\MSVOA6\DATA\071416\D0290.D Vial: 14
Acq On : 14 Jul 2016 2:02 pm Operator: D.LIPANI
Sample : STD #2 - 1.0 PPB Inst : MS#6
Misc : 8260C / 624 ICAL GCMS#6 Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Jul 15 11:08 2016 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA6\METHODS\W071416.M (RTE Integrator)
Title : 8260C / 624 WATERS
Last Update : Fri Jul 15 11:05:13 2016
Response via : Multiple Level Calibration





TIC: D0290.D

(45) 2-Methyl-1,3-Dioxolane

4.76min 2.52ug/L

response 508

Ion	Exp%	Act%
73.00	100	100
43.00	43.50	22.40#
45.00	43.50	39.12
58.00	19.20	0.00

Manual Integration:

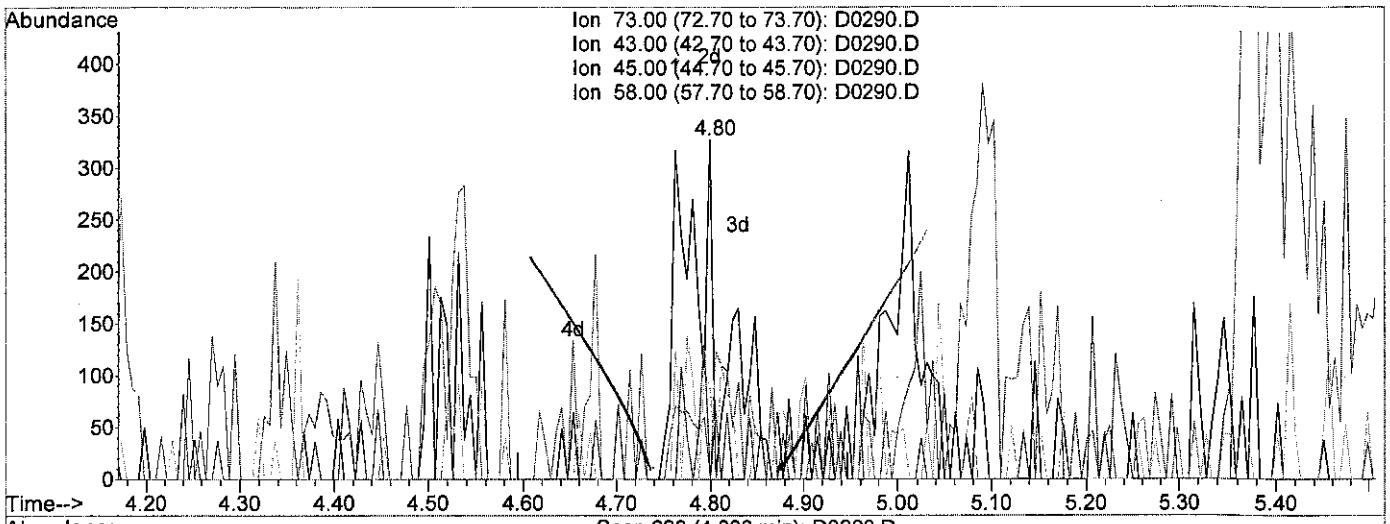
Before

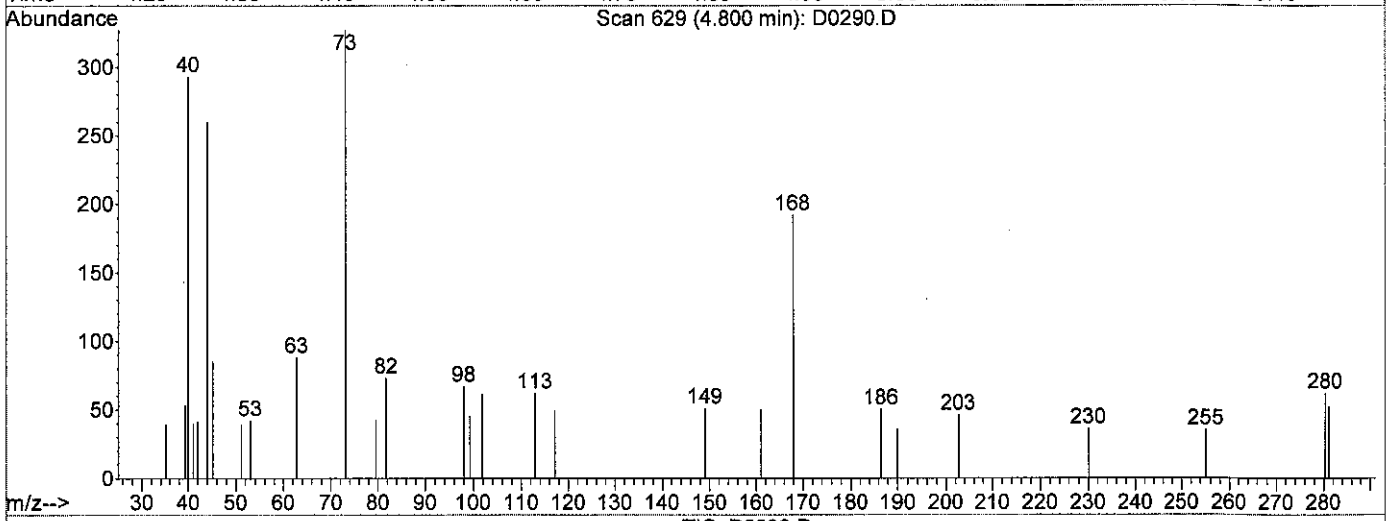
07/15/16

Quantitation Report (Qedit)

Data File : I:\ACQUDATA\MSVOA6\DATA\071416\D0290.D Vial: 14
Acq On : 14 Jul 2016 2:02 pm Operator: D.LIPANI
Sample : STD #2 - 1.0 PPB Inst : MS#6
Misc : 8260C / 624 ICAL GCMS#6 Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Jul 15 11:09 2016 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA6\METHODS\W071416.M (RTE Integrator)
Title : 8260C / 624 WATERS
Last Update : Fri Jul 15 11:05:13 2016
Response via : Multiple Level Calibration





TIC: D0290.D

(45) 2-Methyl-1,3-Dioxolane

4.80min 4.69ug/L m

response 945

Ion	Exp%	Act%
73.00	100	100
43.00	43.50	0.00#
45.00	43.50	25.99
58.00	19.20	0.00

Manual Integration:

After

Split Peak.

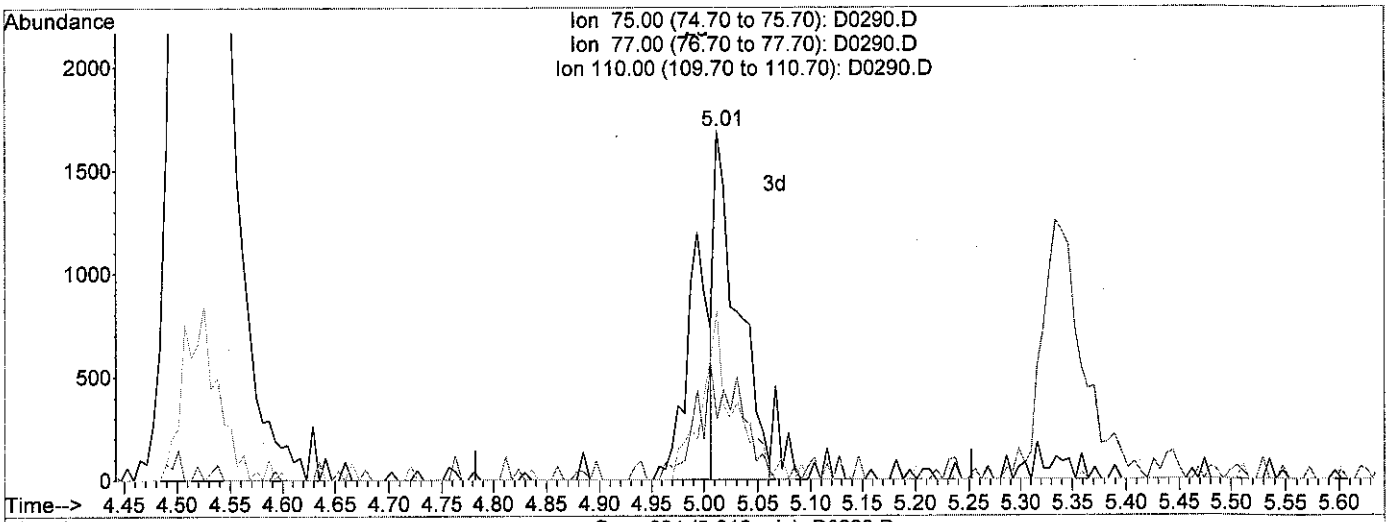
07/15/16 DL

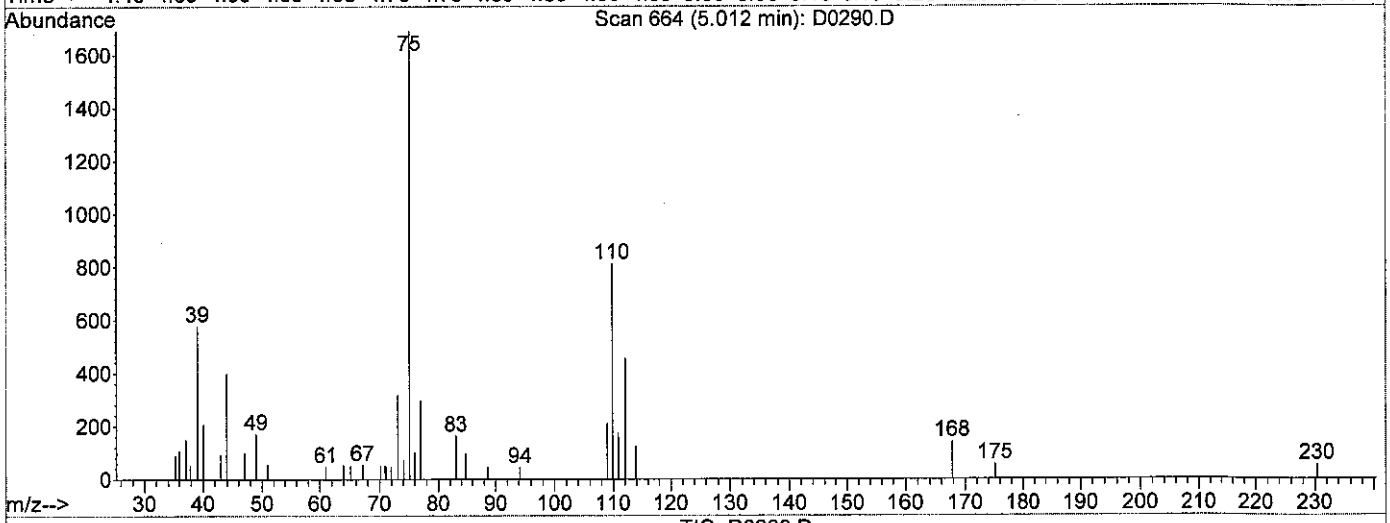
FD 7/18/16

Quantitation Report (Qedit)

Data File : I:\ACQUDATA\MSVOA6\DATA\071416\D0290.D Vial: 14
Acq On : 14 Jul 2016 2:02 pm Operator: D.LIPANI
Sample : STD #2 - 1.0 PPB Inst : MS#6
Misc : 8260C / 624 ICAL GCMS#6 Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Jul 15 11:09 2016 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA6\METHODS\W071416.M (RTE Integrator)
Title : 8260C / 624 WATERS
Last Update : Fri Jul 15 11:05:13 2016
Response via : Multiple Level Calibration





TIC: D0290.D

(46) 1,1-Dichloropropene

5.01min 0.59ug/L

response 2530

Ion	Exp%	Act%
75.00	100	100
77.00	33.20	17.46
110.00	37.20	47.99
0.00	0.00	0.00

Manual Integration:

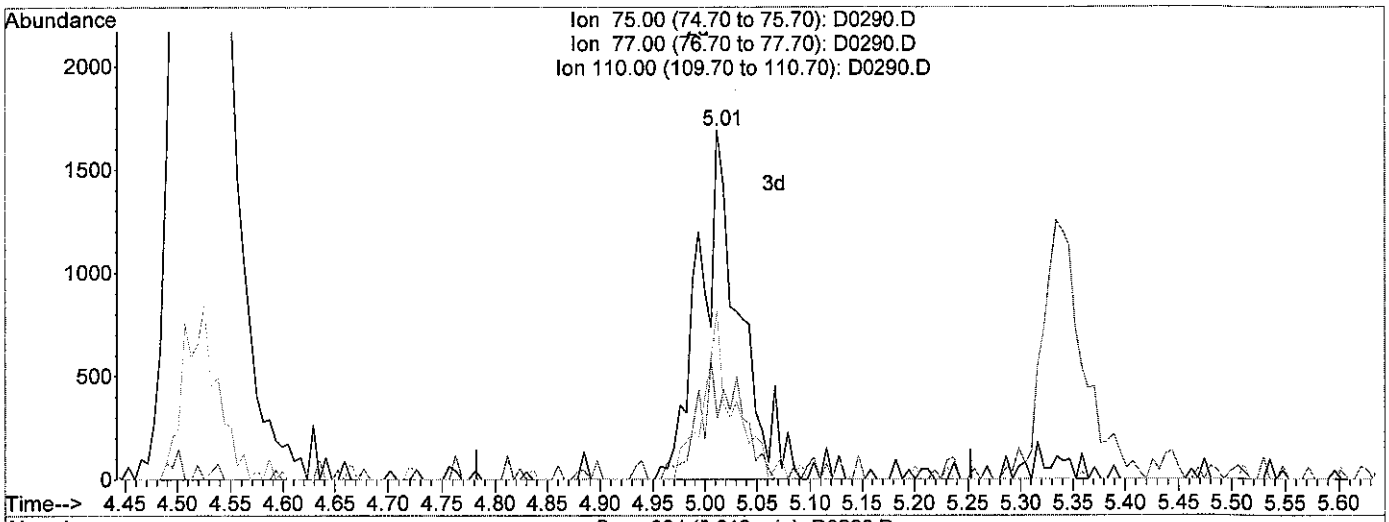
Before

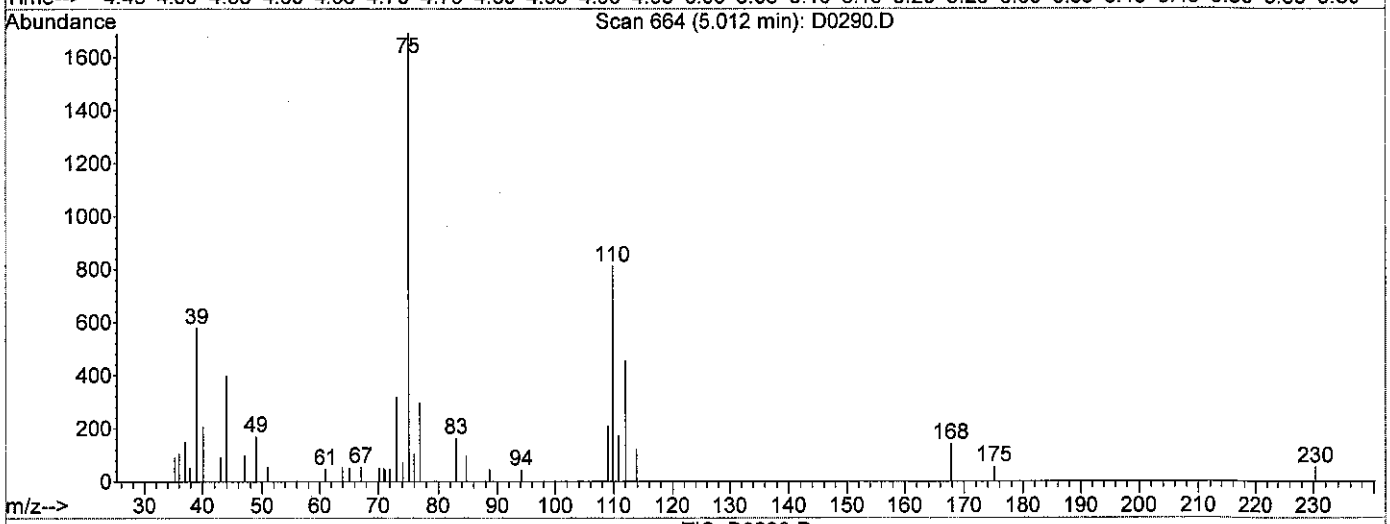
07/15/16

Quantitation Report (Qedit)

Data File : I:\ACQUDATA\MSVOA6\DATA\071416\D0290.D Vial: 14
Acq On : 14 Jul 2016 2:02 pm Operator: D.LIPANI
Sample : STD #2 - 1.0 PPB Inst : MS#6
Misc : 8260C / 624 ICAL GCMS#6 Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Jul 15 11:09 2016 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA6\METHODS\W071416.M (RTE Integrator)
Title : 8260C / 624 WATERS
Last Update : Fri Jul 15 11:05:13 2016
Response via : Multiple Level Calibration





TIC: D0290.D

(46) 1,1-Dichloropropene

5.01min 1.06ug/L m

response 4546

Ion	Exp%	Act%
75.00	100	100
77.00	33.20	17.46
110.00	37.20	47.99
0.00	0.00	0.00

Manual Integration:

After

Split Peak.

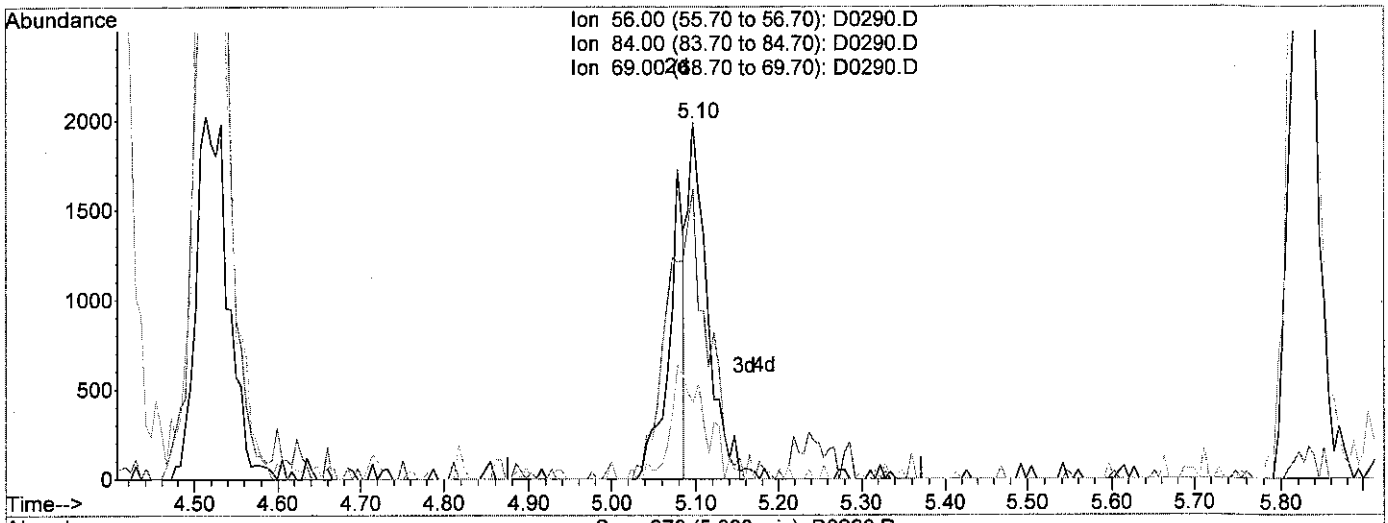
07/15/16 DL

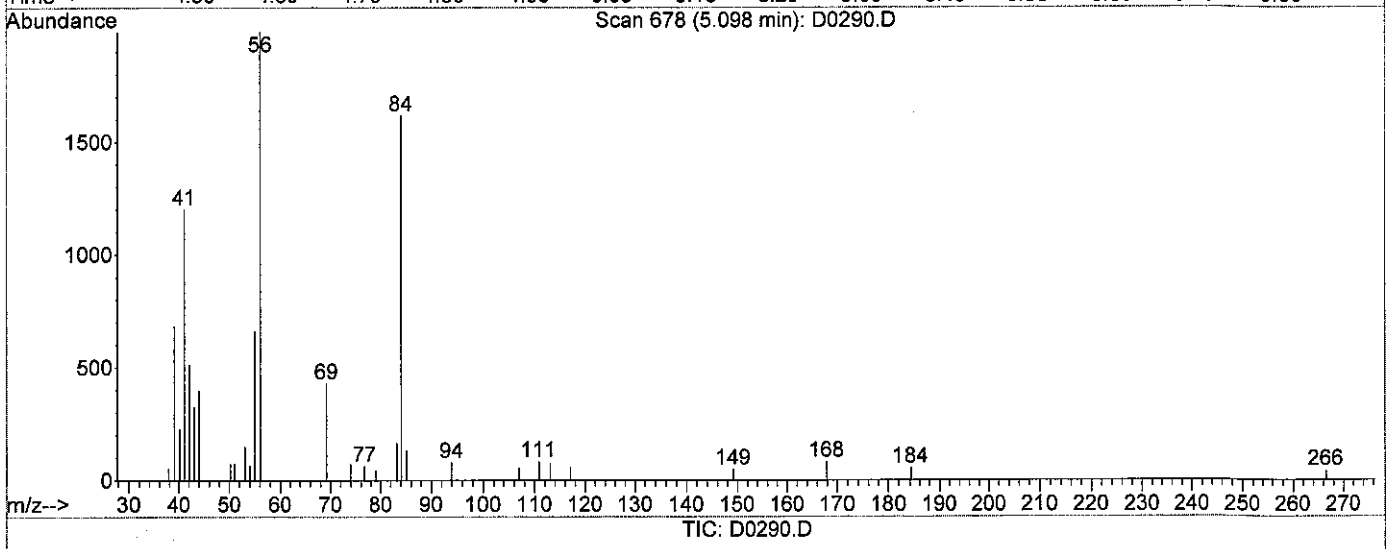
FD 7/18/16

Quantitation Report (Qedit)

Data File : I:\ACQUDATA\MSVOA6\DATA\071416\D0290.D Vial: 14
Acq On : 14 Jul 2016 2:02 pm Operator: D.LIPANI
Sample : STD #2 - 1.0 PPB Inst : MS#6
Misc : 8260C / 624 ICAL GCMS#6 Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Jul 15 11:09 2016 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA6\METHODS\W071416.M (RTE Integrator)
Title : 8260C / 624 WATERS
Last Update : Fri Jul 15 11:05:13 2016
Response via : Multiple Level Calibration





(47) Cyclohexane (P)

5.10min 0.64ug/L

response 3241

Ion	Exp%	Act%
56.00	100	100
84.00	81.90	81.33
69.00	30.70	21.54
0.00	0.00	0.00

Manual Integration:

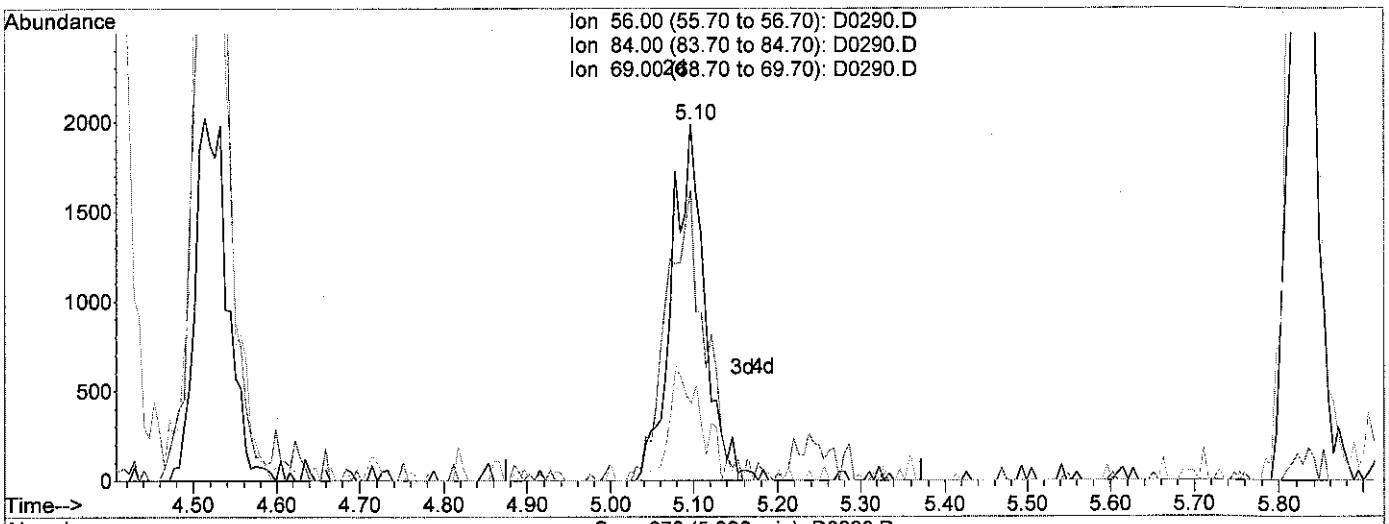
Before

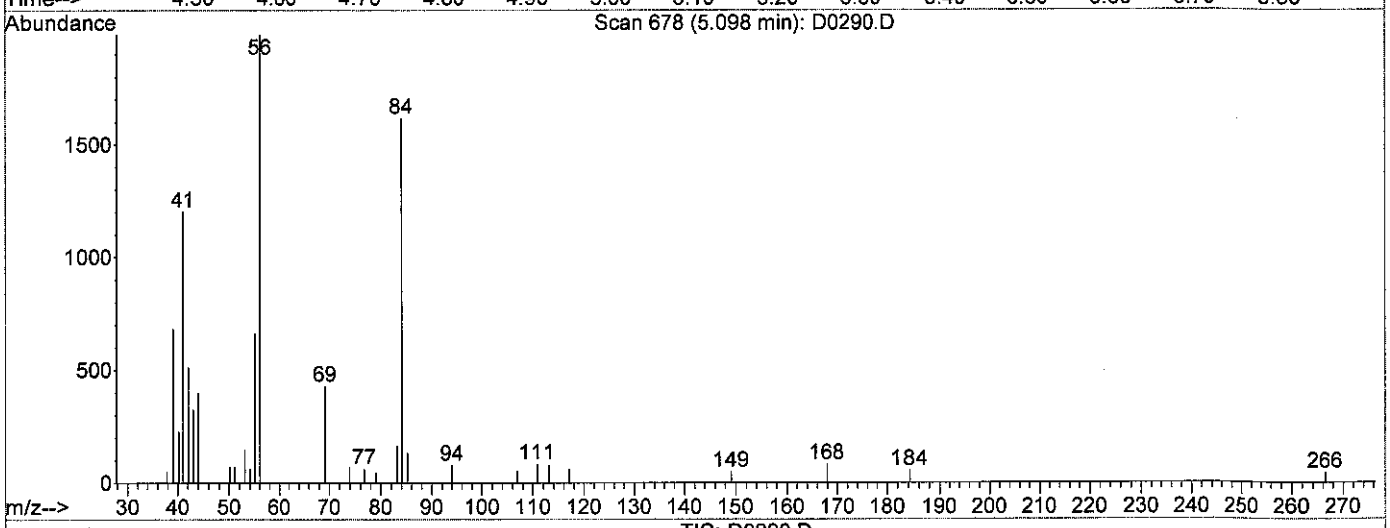
07/15/16

Quantitation Report (Qedit)

Data File : I:\ACQUDATA\MSVOA6\DATA\071416\D0290.D Vial: 14
Acq On : 14 Jul 2016 2:02 pm Operator: D.LIPANI
Sample : STD #2 - 1.0 PPB Inst : MS#6
Misc : 8260C / 624 ICAL GCMS#6 Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Jul 15 11:09 2016 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA6\METHODS\W071416.M (RTE Integrator)
Title : 8260C / 624 WATERS
Last Update : Fri Jul 15 11:05:13 2016
Response via : Multiple Level Calibration





TIC: D0290.D

(47) Cyclohexane (P)

5.10min 1.05ug/L m

response 5357

Ion	Exp%	Act%
56.00	100	100
84.00	81.90	81.33
69.00	30.70	21.54
0.00	0.00	0.00

Manual Integration:

After

Split Peak.

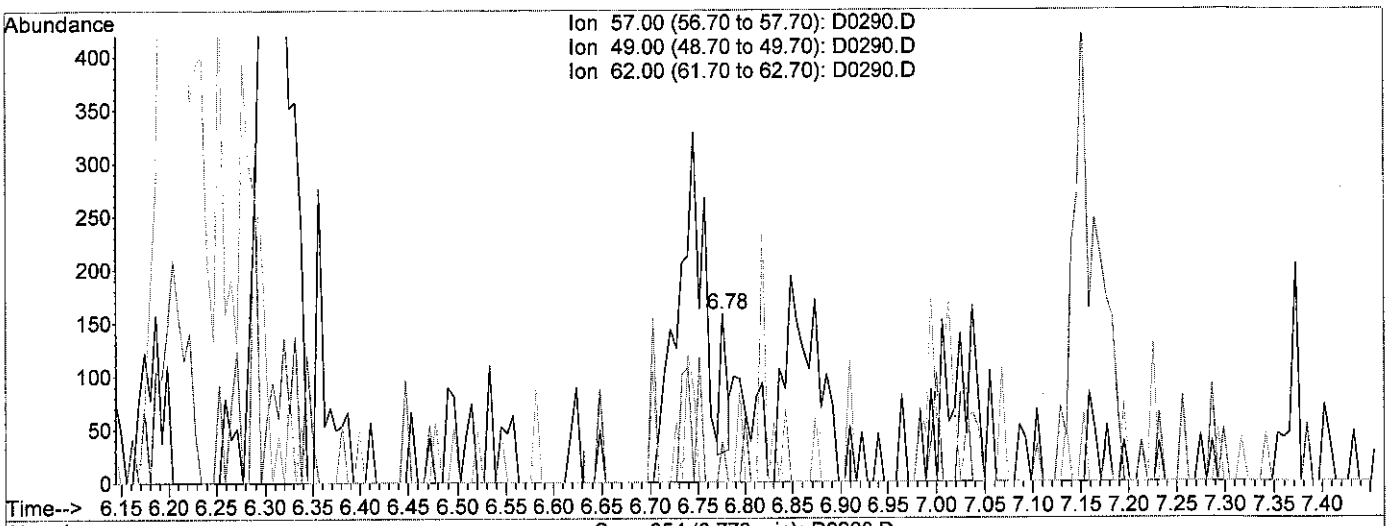
07/15/16 DL

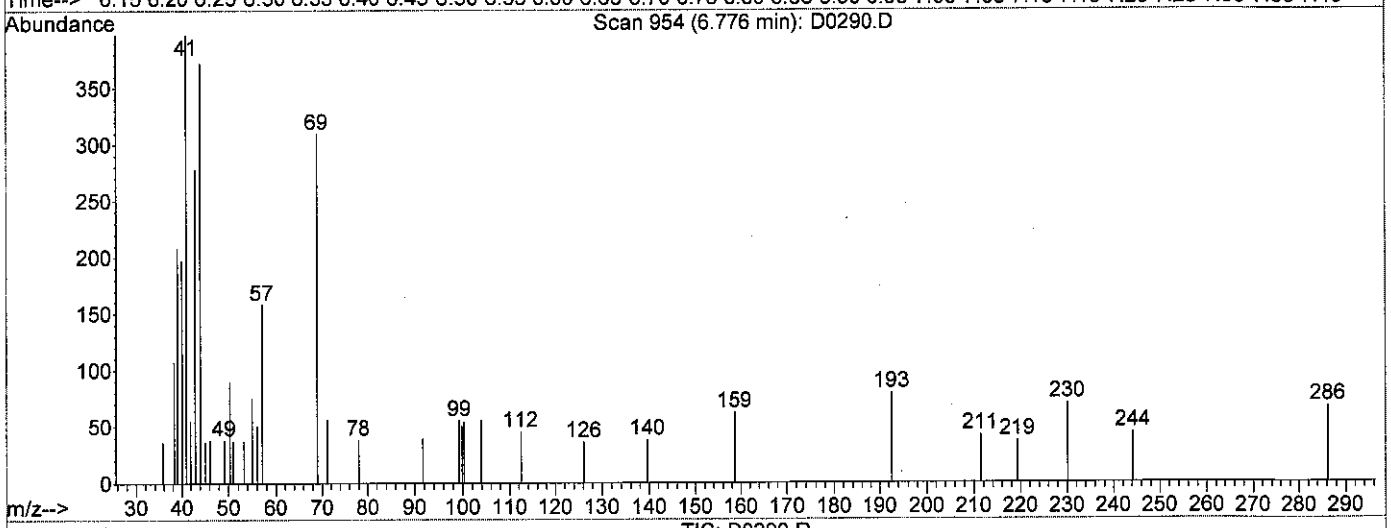
FD 7/18/16

Quantitation Report (Qedit)

Data File : I:\ACQUDATA\MSVOA6\DATA\071416\D0290.D Vial: 14
Acq On : 14 Jul 2016 2:02 pm Operator: D.LIPANI
Sample : STD #2 - 1.0 PPB Inst : MS#6
Misc : 8260C / 624 ICAL GCMS#6 Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Jul 15 11:11 2016 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA6\METHODS\W071416.M (RTE Integrator)
Title : 8260C / 624 WATERS
Last Update : Fri Jul 15 11:05:13 2016
Response via : Multiple Level Calibration





(58) Epichlorohydrin

6.78min 0.41ug/L

response 66

Ion	Exp%	Act%
57.00	100	100
49.00	27.70	24.05
62.00	17.00	0.00
0.00	0.00	0.00

Manual Integration:

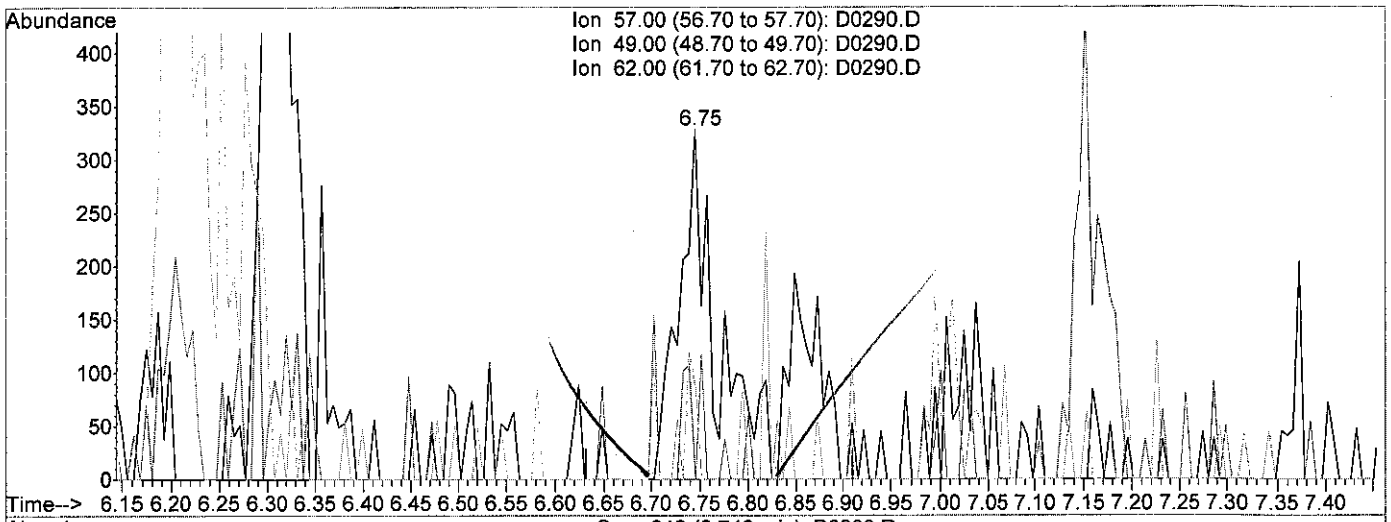
Before

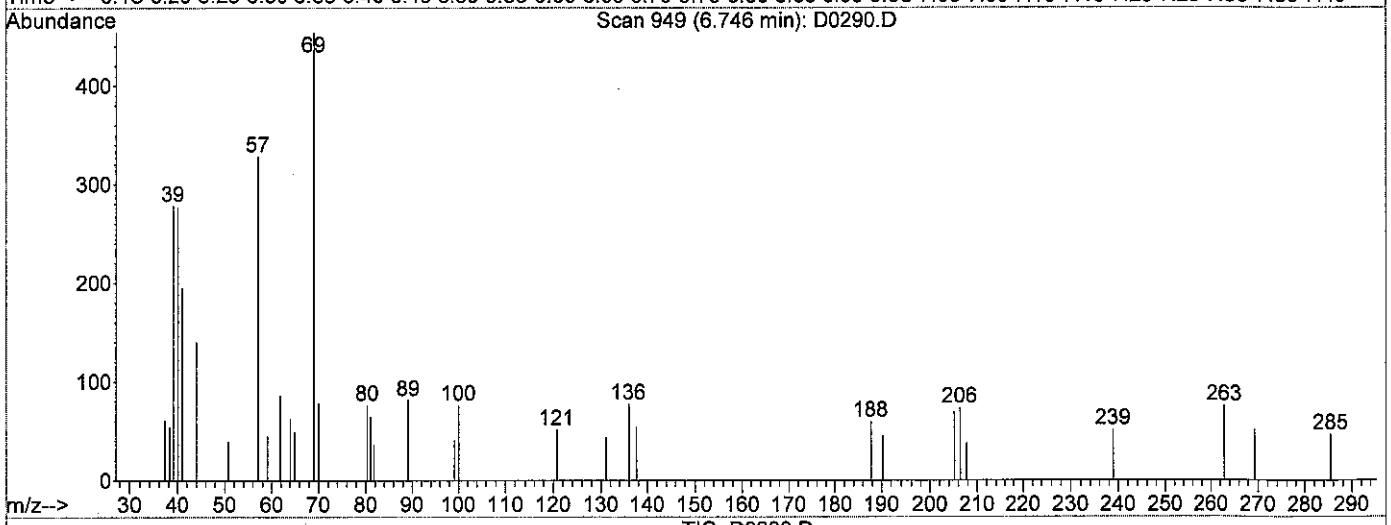
07/15/16

Quantitation Report (Qedit)

Data File : I:\ACQUDATA\MSVOA6\DATA\071416\D0290.D Vial: 14
Acq On : 14 Jul 2016 2:02 pm Operator: D.LIPANI
Sample : STD #2 - 1.0 PPB Inst : MS#6
Misc : 8260C / 624 ICAL GCMS#6 Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Jul 15 11:12 2016 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA6\METHODS\W071416.M (RTE Integrator)
Title : 8260C / 624 WATERS
Last Update : Fri Jul 15 11:05:13 2016
Response via : Multiple Level Calibration





(58) Epichlorohydrin

6.75min 5.41ug/L m

response 877

Ion	Exp%	Act%
57.00	100	100
49.00	27.70	0.00#
62.00	17.00	26.22
0.00	0.00	0.00

Manual Integration:

After

Split Peak.

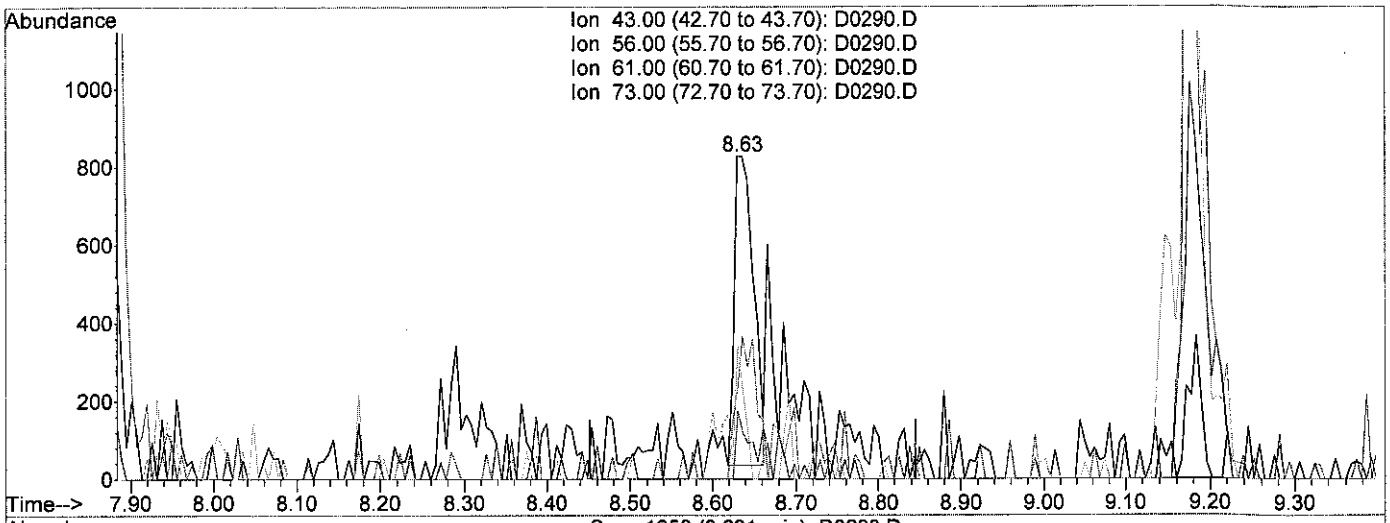
07/15/16 DL

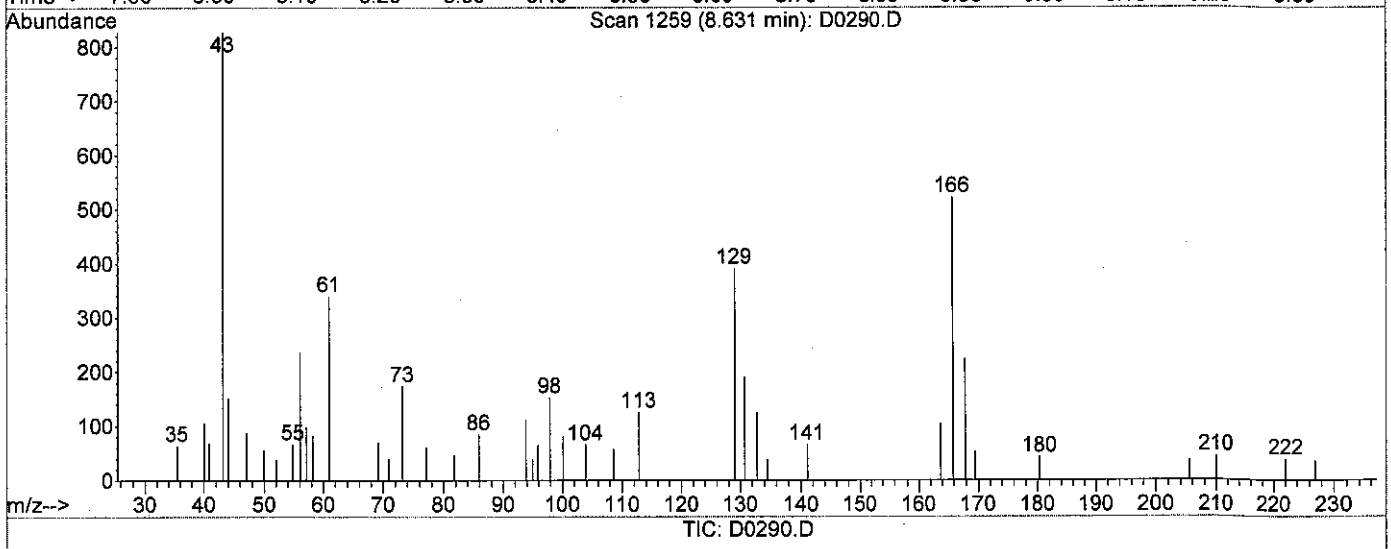
FW 7/18/16

Quantitation Report (Qedit)

Data File : I:\ACQUDATA\MSVOA6\DATA\071416\D0290.D Vial: 14
Acq On : 14 Jul 2016 2:02 pm Operator: D.LIPANI
Sample : STD #2 - 1.0 PPB Inst : MS#6
Misc : 8260C / 624 ICAL GCMS#6 Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Jul 15 11:12 2016 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA6\METHODS\W071416.M (RTE Integrator)
Title : 8260C / 624 WATERS
Last Update : Fri Jul 15 11:05:13 2016
Response via : Multiple Level Calibration





(75) n-Butyl Acetate

8.63min 0.49ug/L

response 1292

Ion	Exp%	Act%
43.00	100	100
56.00	40.30	0.00#
61.00	20.70	0.00#
73.00	15.40	0.00

Manual Integration:

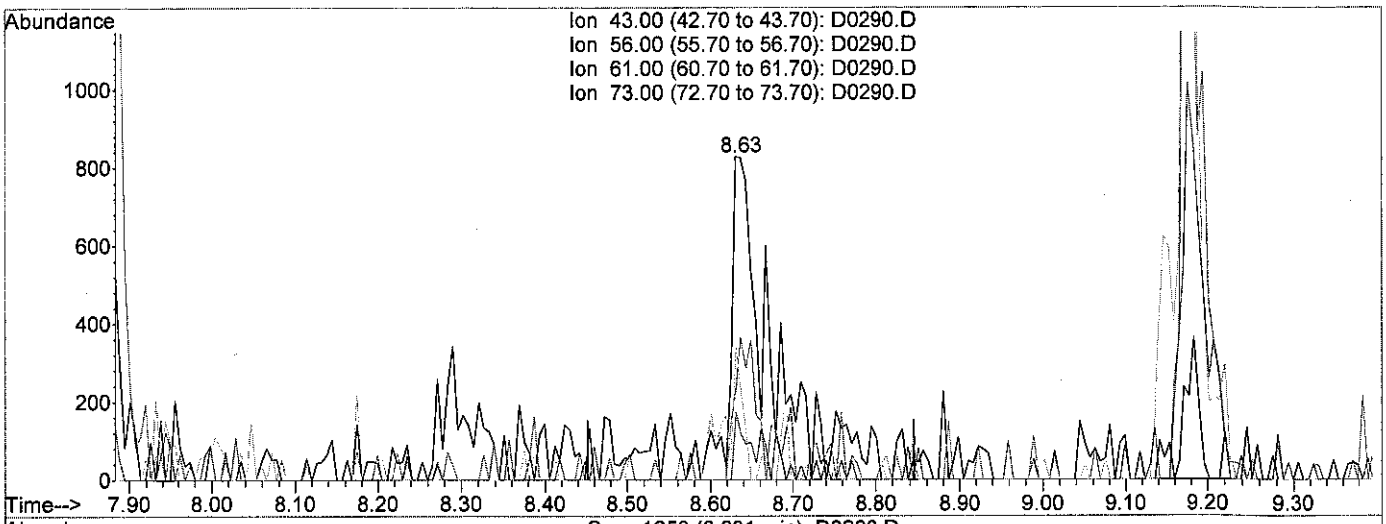
Before

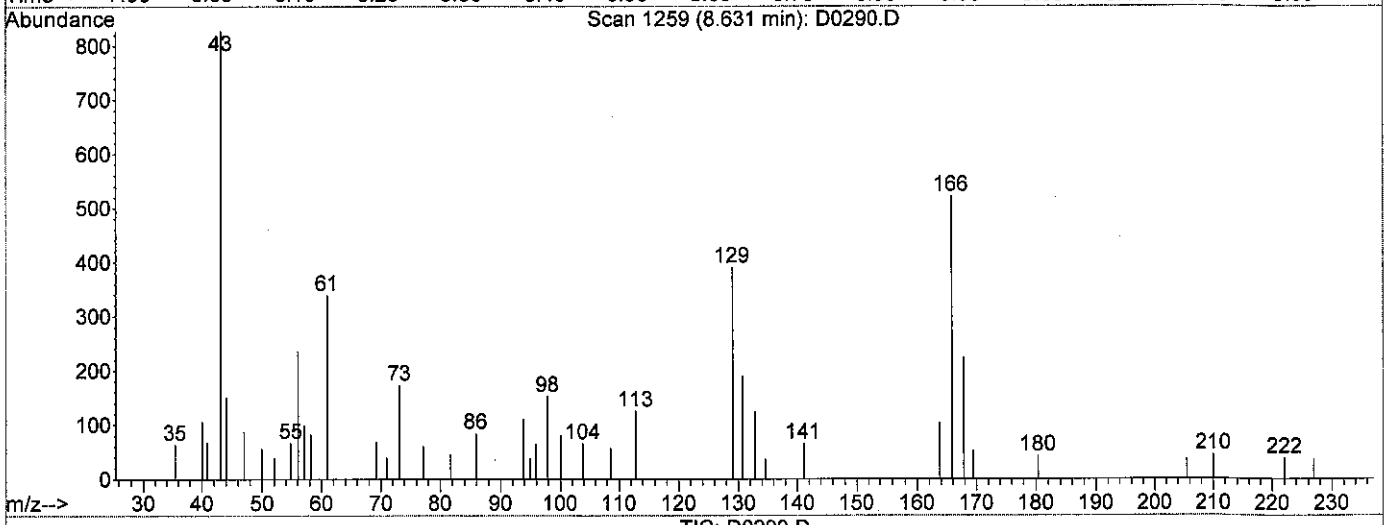
07/15/16

Quantitation Report (Qedit)

Data File : I:\ACQUDATA\MSVOA6\DATA\071416\D0290.D Vial: 14
Acq On : 14 Jul 2016 2:02 pm Operator: D.LIPANI
Sample : STD #2 - 1.0 PPB Inst : MS#6
Misc : 8260C / 624 ICAL GCMS#6 Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Jul 15 11:13 2016 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA6\METHODS\W071416.M (RTE Integrator)
Title : 8260C / 624 WATERS
Last Update : Fri Jul 15 11:05:13 2016
Response via : Multiple Level Calibration





TIC: D0290.D

(75) n-Butyl Acetate

8.63min 0.86ug/L m

response 2268

Ion	Exp%	Act%
43.00	100	100
56.00	40.30	0.00#
61.00	20.70	0.00#
73.00	15.40	0.00

Manual Integration:

After

Split Peak.

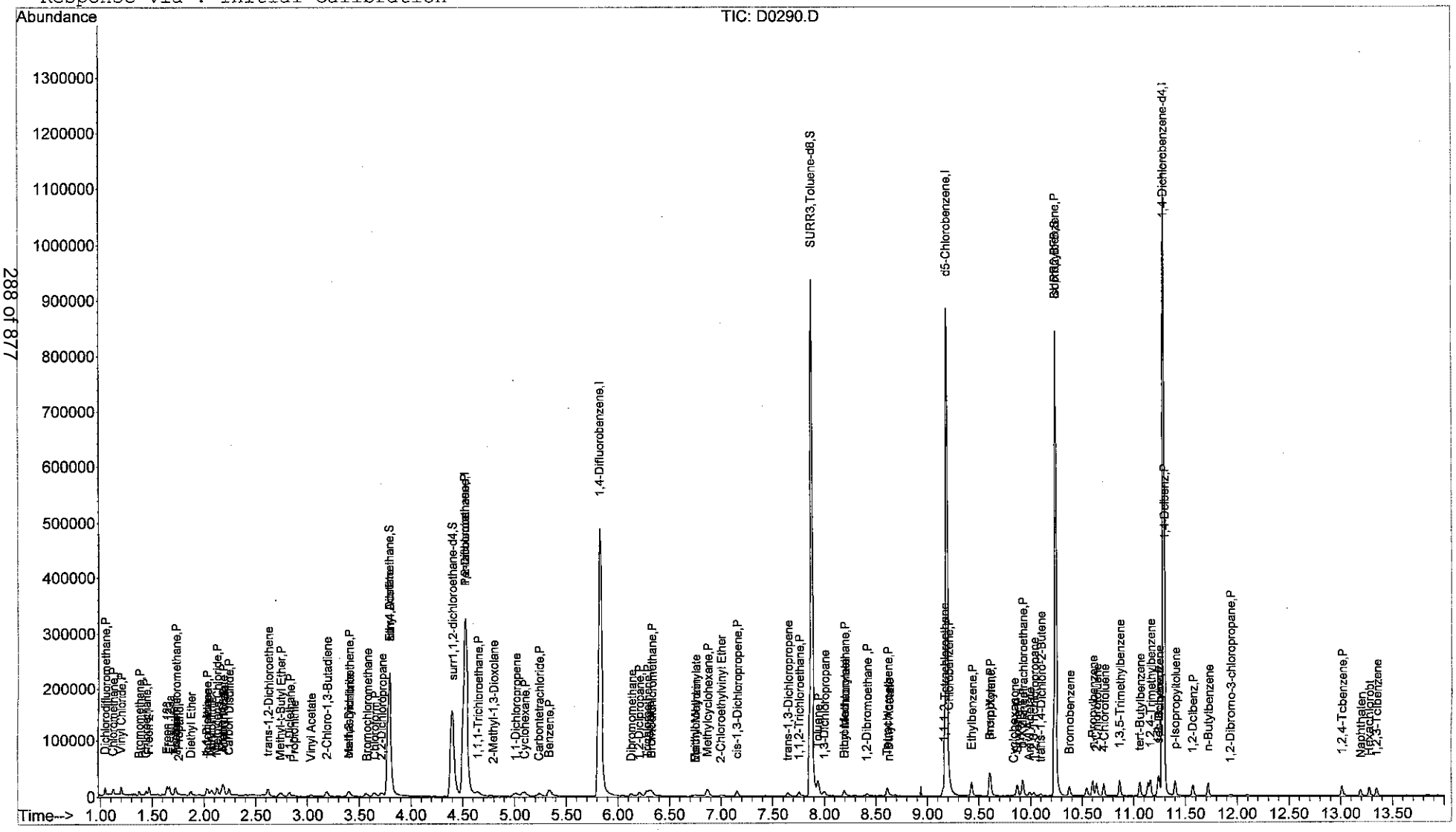
07/15/16 DL

FD 7/18/16

Quantitation Report

Data File : I:\ACQUDATA\MSVOA6\DATA\071416\D0290.D Vial: 14
Acq On : 14 Jul 2016 2:02 pm Operator: D.LIPANI
Sample : STD #2 - 1.0 PPB Inst : MS#6
Misc : 8260C / 624 ICAL GCMS#6 Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Jul 15 11:17 2016 Quant Results File: W071416.RES

Method : I:\ACQUDATA\MSVOA6\METHODS\W071416.M (RTE Integrator)
Title : 8260C / 624 WATERS
Last Update : Fri Jul 15 11:05:13 2016
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : I:\ACQUDATA\MSVOA6\DATA\071416\D0291.D Vial: 15
Acq On : 14 Jul 2016 2:34 pm Operator: D.LIPANI
Sample : STD #3 - 2.0 PPB Inst : MS#6
Misc : 8260C / 624 ICAL GCMS#6 Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Jul 15 11:29 2016 Quant Results File: W071416.RES

Quant Method : I:\ACQUDATA\M...\W071416.M (RTE Integrator)
Title : 8260C / 624 WATERS
Last Update : Fri Jul 15 11:17:32 2016
Response via : Initial Calibration
DataAcq Meth : W071416

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.52	168	337617	50.00	ug/L	0.00
40) 1,4-Difluorobenzene	5.82	114	501887	50.00	ug/L	0.00
69) d5-Chlorobenzene	9.18	117	432716	50.00	ug/L	0.00
89) 1,4-Dichlorobenzene-d4	11.28	152	243704	50.00	ug/L	0.00
System Monitoring Compounds						
41) surr4,Dibrflmethane	3.79	113	197883	61.23	ug/L	0.00
Spiked Amount 50.000 Range 89 - 119 Recovery = 122.46%#						
43) surr1,1,2-dichloroethane-d	4.40	65	177809	61.59	ug/L	0.00
Spiked Amount 50.000 Range 65 - 130 Recovery = 123.18%						
67) SURR3,Toluene-d8	7.87	98	650889	64.47	ug/L	0.00
Spiked Amount 50.000 Range 87 - 121 Recovery = 128.94%#						
88) SURR2,BFB	10.24	95	254141	61.13	ug/L	0.00
Spiked Amount 50.000 Range 85 - 122 Recovery = 122.26%#						

Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.04	85	9768	2.02	ug/L	97
3) Chloromethane	1.12	50	10066	2.03	ug/L	98
4) Vinyl Chloride	1.20	62	11002	1.99	ug/L	98
5) Bromomethane	1.37	94	4499	1.85	ug/L	93
6) Chloroethane	1.44	64	5426	1.96	ug/L	100
7) Freon 21	1.47	67	12662	2.06	ug/L	98
8) Freon 123	1.64	83	10557	2.05	ug/L	92
9) Freon 123a	1.66	67	9280m	2.25	ug/L	
10) Acrolein	1.72	56	3438	10.87	ug/L #	70
11) Trichlorofluoromethane	1.72	101	9579	1.88	ug/L	99
12) Acetonitrile	1.73	41	2323	10.35	ug/L	97
13) 2-Propanol	1.77	45	3967	43.23	ug/L	87
14) Acetone	1.79	43	1266	2.68	ug/L	71
15) Diethyl Ether	1.88	59	4671	2.09	ug/L	85
16) 1,1-Diclethene	2.03	96	6413	1.96	ug/L	94
17) Iodomethane	2.04	142	3917	1.88	ug/L	90
18) TBA	2.07	59	5896	41.44	ug/L	79
19) Acrylonitrile	2.07	53	7563	10.58	ug/L	90
20) Methylene Chloride	2.13	84	7374	2.08	ug/L	85
21) Freon 113	2.17	101	6802	1.99	ug/L	88
22) Methyl Acetate	2.19	43	2939	1.97	ug/L	85
23) Allyl Chloride	2.19	76	4050	2.10	ug/L	94
24) Carbon Disulfide	2.24	76	23065	2.12	ug/L	98
25) trans-1,2-Dichloroethene	2.62	96	6245	1.81	ug/L	90
26) Methyl-t-Butyl Ether	2.75	73	13108	2.04	ug/L	89
27) 1,1-Diclethane	2.83	63	10721	1.99	ug/L	98
28) Propionitrile	2.87	54	2122	9.43	ug/L	89
29) Vinyl Acetate	3.03	43	7271	1.59	ug/L	98
30) 2-Chloro-1,3-Butadiene	3.18	53	9595	2.00	ug/L	90
32) Methacrylonitrile	3.40	67	1506	1.97	ug/L #	76
33) cis-1,2-Dichloroethene	3.40	96	7248	2.06	ug/L	91
34) Bromochloromethane	3.56	128	3005	1.97	ug/L #	79
35) Chloroform	3.65	83	11393	1.97	ug/L	88
36) 2,2-Dichloropropane	3.71	77	8887	1.89	ug/L	83
37) Ethyl Acetate	3.77	43	5474	3.48	ug/L	83

DL 7/15/16

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

Quantitation Report (QT Reviewed)

Data File : I:\ACQUDATA\MSVOA6\DATA\071416\D0291.D Vial: 15
Acq On : 14 Jul 2016 2:34 pm Operator: D.LIPANI
Sample : STD #3 - 2.0 PPB Inst : MS#6
Misc : 8260C / 624 ICAL GCMS#6 Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Jul 15 11:29 2016 Quant Results File: W071416.RES

Quant Method : I:\ACQUDATA\M...\W071416.M (RTE Integrator)
Title : 8260C / 624 WATERS
Last Update : Fri Jul 15 11:17:32 2016
Response via : Initial Calibration
DataAcq Meth : W071416

Compound	R.T.	QIon	Response	Conc Unit		Qvalue
38) Tetrahydrofuran	4.14	42	1068m	2.10 ug/L		
39) 1,1,1-Trichloroethane	4.65	97	9834	2.13 ug/L		90
42) Iso-Butyl Alcohol	3.91	43	1998	30.26 ug/L	#	51
44) 1,2-Dichloroethane	4.52	64	2154	1.96 ug/L	#	76
45) 2-Methyl-1,3-Dioxolane	4.78	73	1625m	8.05 ug/L		
46) 1,1-Dichloropropene	5.01	75	8271	1.91 ug/L		87
47) Cyclohexane	5.09	56	10580	2.07 ug/L		97
48) Carbontetrachloride	5.25	119	7946	1.92 ug/L		87
49) Benzene	5.33	78	25145	2.00 ug/L		93
50) Isopropyl Acetate	5.37	43	5425m	1.52 ug/L		
51) Dibromomethane	6.13	93	2745	1.76 ug/L		93
52) 1,2-Diclpropane	6.21	63	6687	2.07 ug/L		81
53) n-Heptane	6.31	43	7560	1.99 ug/L		79
54) Trichloroethene	6.28	130	6343	1.91 ug/L		95
55) Bromodichloromethane	6.33	83	8283	2.02 ug/L		98
56) 2-Nitropropane	6.35	41	1574	4.17 ug/L	#	74
57) 1,4-Dioxane	6.60	88	592m	41.01 ug/L		
58) Epichlorohydrin	6.74	57	1555	9.56 ug/L		77
59) Methyl Methacrylate	6.74	69	2271m	1.76 ug/L		
60) n-Propyl Acetate	6.77	43	2627m	1.08 ug/L		
61) Methylcyclohexane	6.86	55	7196	1.95 ug/L		99
62) 2-Chloroethylvinyl Ether	7.00	63	2543	1.75 ug/L		84
63) cis-1,3-Dichloropropene	7.15	75	8852	1.93 ug/L		96
64) 4-Methyl-2-pentanone	7.37	43	2746	1.73 ug/L	#	43
65) trans-1,3-Dichloropropene	7.64	75	6942m	1.91 ug/L		
66) 1,1,2-Trichloroethane	7.76	97	4598	2.16 ug/L		92
68) Toluene	7.94	91	26513	2.04 ug/L		96
70) 1,3-Dichloropropane	7.99	76	6457	1.88 ug/L		92
71) Ethyl Methacrylate	8.18	69	4623m	1.79 ug/L		
72) Dibromochloromethane	8.19	129	5065	1.86 ug/L		96
73) 2-Hexanone	8.28	43	1534	1.33 ug/L		79
74) 1,2-Dibromoethane	8.41	107	4587	2.02 ug/L		97
75) n-Butyl Acetate	8.63	43	5071	1.78 ug/L	#	74
76) Tetrachloroethene	8.61	164	5541	1.95 ug/L		98
77) 1,1,1,2-Tetrachloroethane	9.15	131	5332	1.84 ug/L		91
78) Chlorobenzene	9.21	112	16035	1.92 ug/L		96
79) Ethylbenzene	9.42	106	8683	1.92 ug/L	#	87
80) Bromoform	9.61	173	2550	1.69 ug/L		92
81) (m+p)Xylene	9.61	106	20159	3.78 ug/L	#	84
82) o-Xylene	9.93	106	10117	1.96 ug/L		95
83) Cyclohexanone	9.84	55	1692	34.46 ug/L		84
84) Styrene	9.87	104	16090	1.96 ug/L		98
85) Amyl Acetate	9.98	43	7698m	2.03 ug/L		
86) trans-1,4-Dichloro-2-Buten	10.10	75	1525	1.77 ug/L	#	82
87) Isopropylbenzene	10.24	105	27682	2.03 ug/L		93
90) 1,1,2,2-Tetrachloroethane	9.92	83	4695	1.90 ug/L		98
91) 1,2,3-Trichloropropane	10.03	75	3504	2.07 ug/L		98
92) Bromobenzene	10.37	156	8507	2.17 ug/L		91
93) n-Propylbenzene	10.60	91	31395	2.07 ug/L		95
94) 2-Chlorotoluene	10.64	91	18926	2.03 ug/L		92

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

Quantitation Report (QT Reviewed)

Data File : I:\ACQUDATA\MSVOA6\DATA\071416\D0291.D Vial: 15
Acq On : 14 Jul 2016 2:34 pm Operator: D.LIPANI
Sample : STD #3 - 2.0 PPB Inst : MS#6
Misc : 8260C / 624 ICAL GCMS#6 Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Jul 15 11:29 2016 Quant Results File: W071416.RES

Quant Method : I:\ACQUDATA\M...\W071416.M (RTE Integrator)
Title : 8260C / 624 WATERS
Last Update : Fri Jul 15 11:17:32 2016
Response via : Initial Calibration
DataAcq Meth : W071416

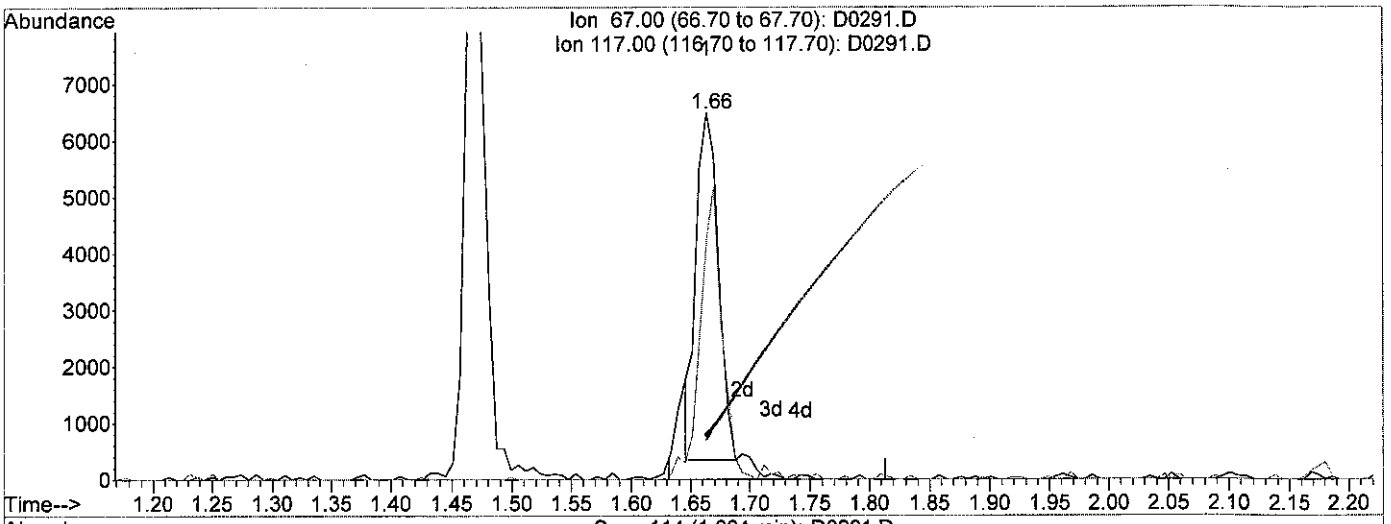
	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
95)	4-Chlorotoluene	10.71	91	19480	1.99 ug/L	96
96)	1,3,5-Trimethylbenzene	10.86	105	20674	1.94 ug/L	95
97)	tert-Butylbenzene	11.06	119	18068	2.04 ug/L	97
98)	1,2,4-Trimethylbenzene	11.16	105	21938	1.98 ug/L	99
99)	sec-Butylbenzene	11.23	105	27004	2.10 ug/L	92
100)	1,3-Dclbenz	11.25	146	13937	1.97 ug/L	97
101)	1,4-Dclbenz	11.30	146	15250	2.11 ug/L	91
102)	p-Isopropyltoluene	11.40	119	22947	2.07 ug/L	97
103)	1,2-Dclbenz	11.57	146	13926	2.13 ug/L	93
104)	n-Butylbenzene	11.72	91	19210	1.89 ug/L	96
105)	1,2-Dibromo-3-chloropropan	11.93	75	861	2.25 ug/L #	79
107)	1,2,4-Tcbenzene	13.01	180	8256	1.96 ug/L	97
108)	Naphthalen	13.19	128	13815	2.03 ug/L	99
109)	Hexachlorobt	13.28	225	3753	1.78 ug/L	92
110)	1,2,3-Tclbenzene	13.35	180	6556	1.99 ug/L	91

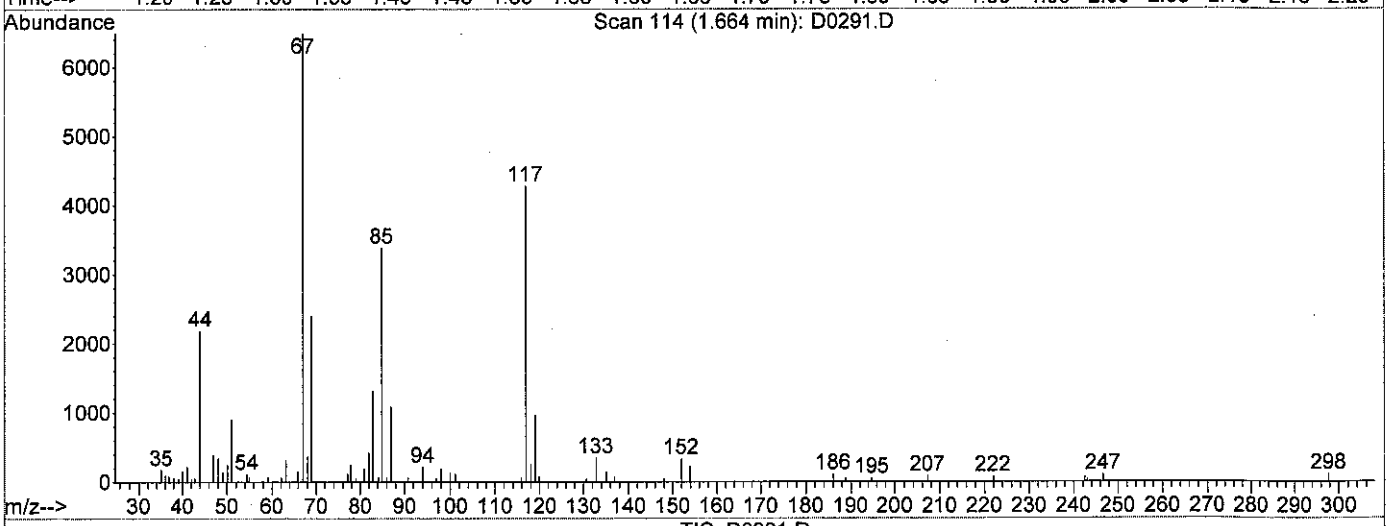
(#) = qualifier out of range (m) = manual integration

Quantitation Report (Qedit)

Data File : I:\ACQUDATA\MSVOA6\DATA\071416\D0291.D Vial: 15
Acq On : 14 Jul 2016 2:34 pm Operator: D.LIPANI
Sample : STD #3 - 2.0 PPB Inst : MS#6
Misc : 8260C / 624 ICAL GCMS#6 Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Jul 15 11:18 2016 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA6\METHODS\W071416.M (RTE Integrator)
Title : 8260C / 624 WATERS
Last Update : Fri Jul 15 11:17:32 2016
Response via : Multiple Level Calibration





TIC: D0291.D

(9) Freon 123a

1.66min 1.94ug/L

response 8008

Ion	Exp%	Act%
67.00	100	100
117.00	65.50	65.90
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

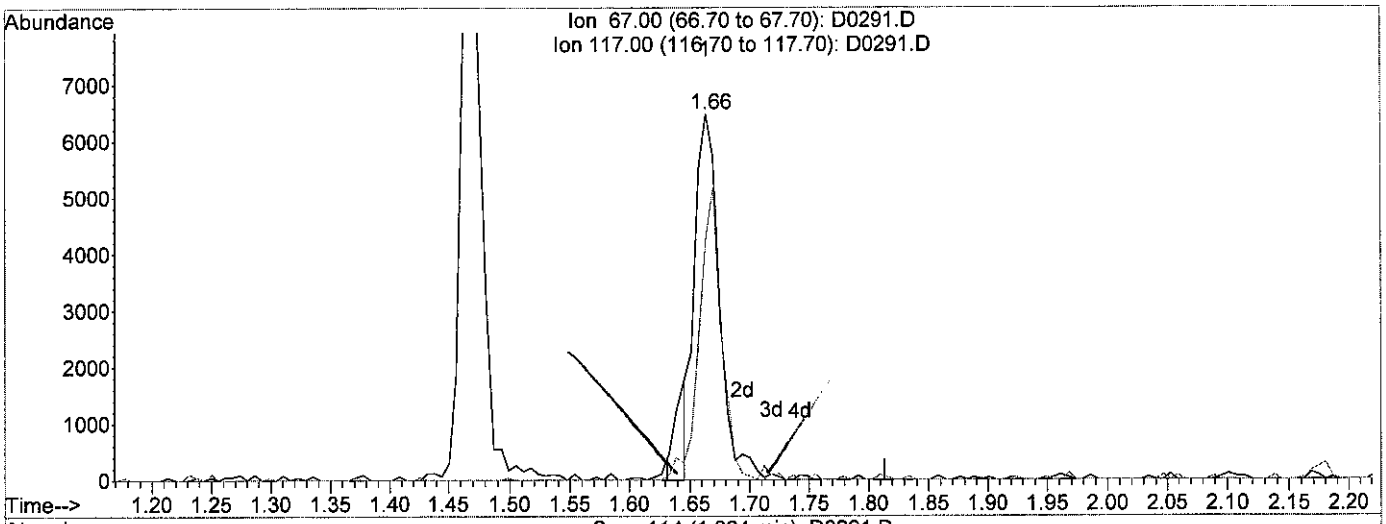
Before

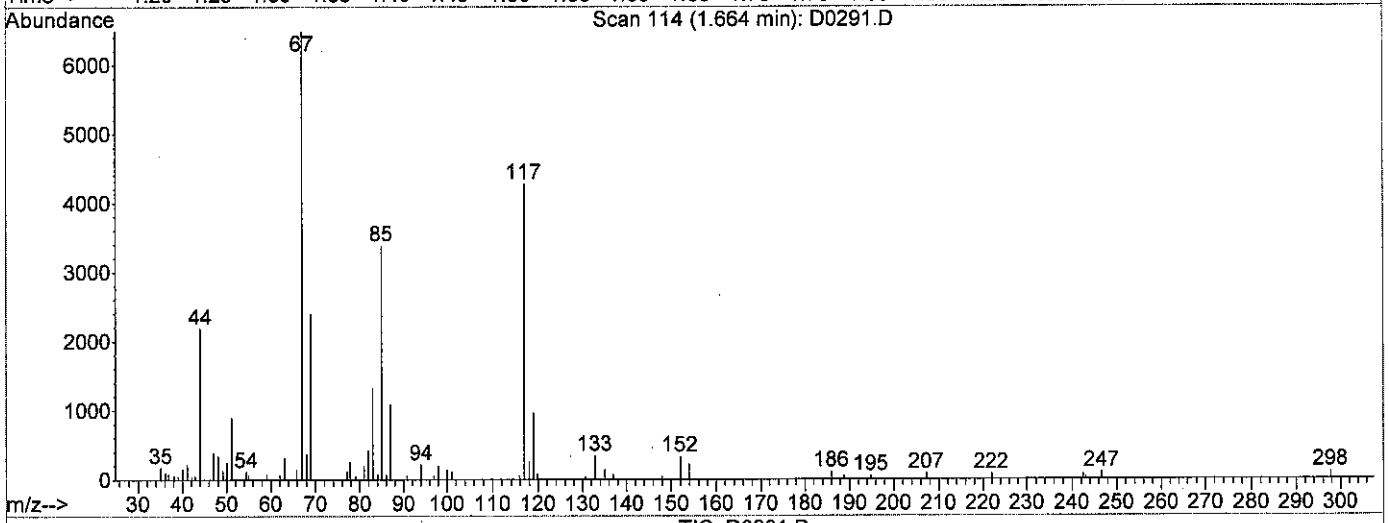
07/15/16

Quantitation Report (Qedit)

Data File : I:\ACQUDATA\MSVOA6\DATA\071416\D0291.D Vial: 15
Acq On : 14 Jul 2016 2:34 pm Operator: D.LIPANI
Sample : STD #3 - 2.0 PPB Inst : MS#6
Misc : 8260C / 624 ICAL GCMS#6 Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Jul 15 11:20 2016 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA6\METHODS\W071416.M (RTE Integrator)
Title : 8260C / 624 WATERS
Last Update : Fri Jul 15 11:17:32 2016
Response via : Multiple Level Calibration





TIC: D0291.D

(9) Freon 123a

1.66min 2.25ug/L m

response 9280

Ion	Exp%	Act%
67.00	100	100
117.00	65.50	65.90
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

Poor integration.

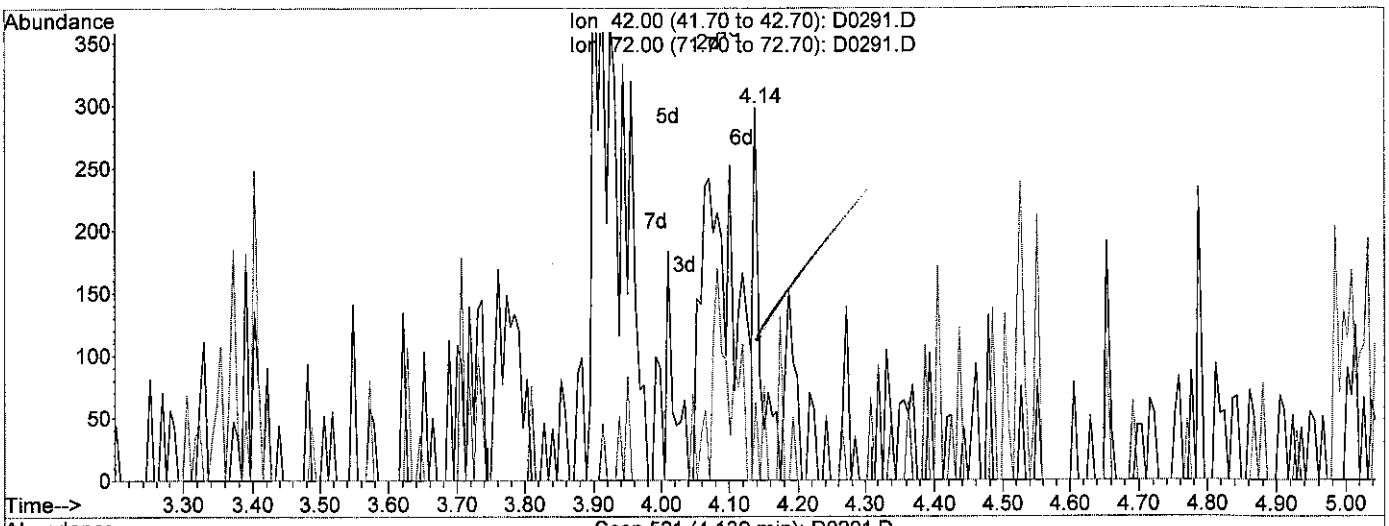
07/15/16 DL

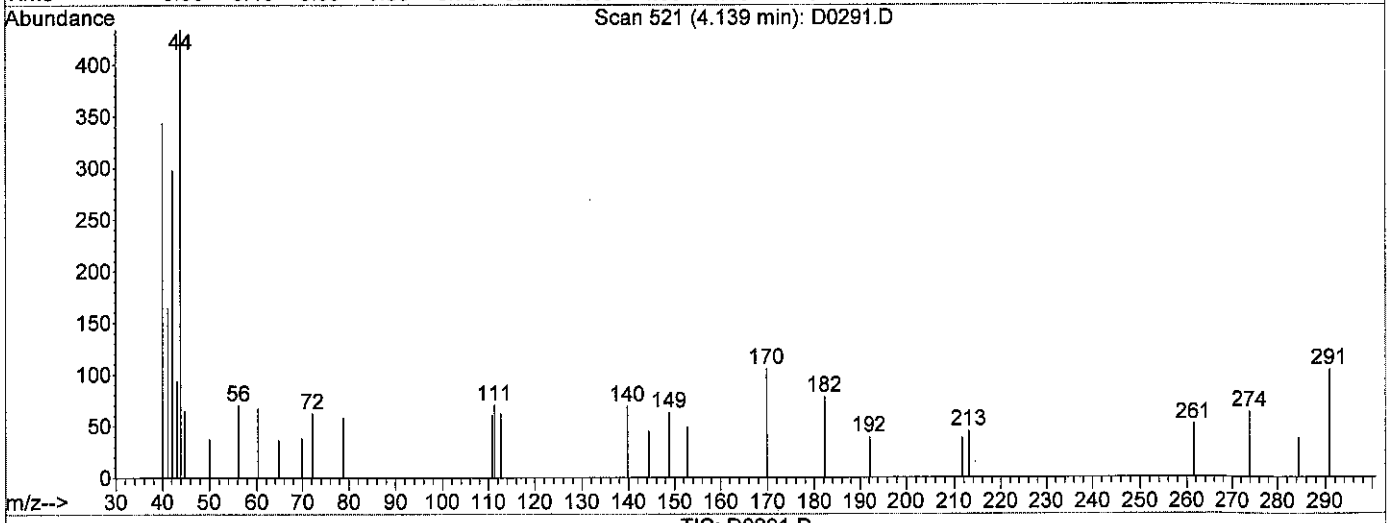
FW 7/18/16

Quantitation Report (Qedit)

Data File : I:\ACQUDATA\MSVOA6\DATA\071416\D0291.D Vial: 15
Acq On : 14 Jul 2016 2:34 pm Operator: D.LIPANI
Sample : STD #3 - 2.0 PPB Inst : MS#6
Misc : 8260C / 624 ICAL GCMS#6 Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Jul 15 11:21 2016 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA6\METHODS\W071416.M (RTE Integrator)
Title : 8260C / 624 WATERS
Last Update : Fri Jul 15 11:17:32 2016
Response via : Single Level Calibration





TIC: D0291.D

(38) Tetrahydrofuran

4.14min 0.43ug/L

response 218

Ion	Exp%	Act%
42.00	100	100
72.00	35.70	20.81
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

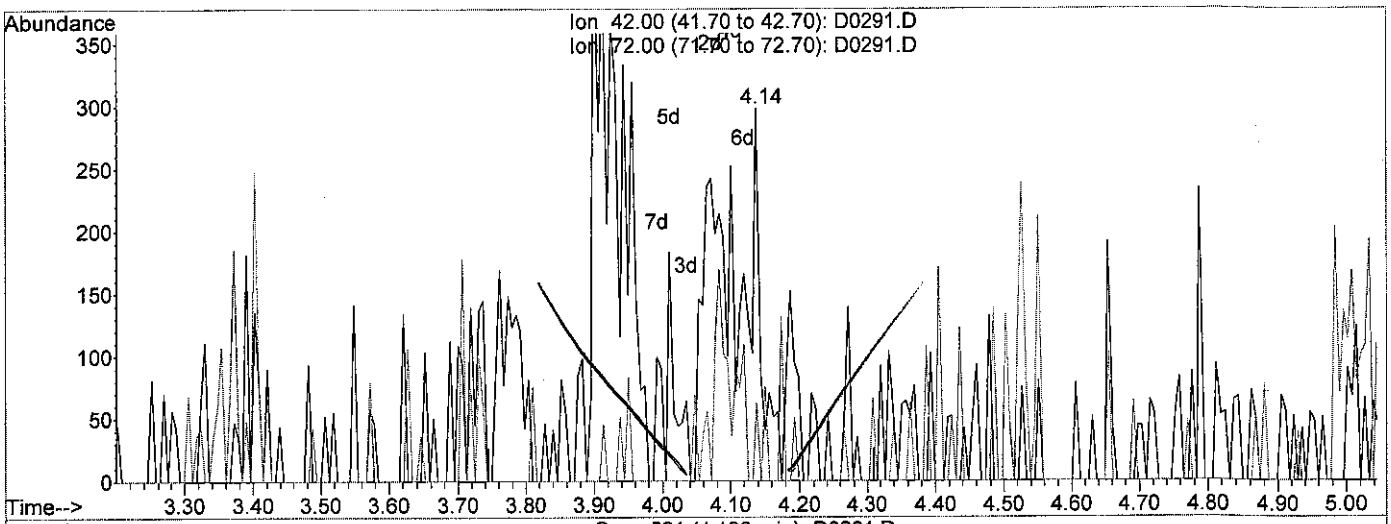
Before

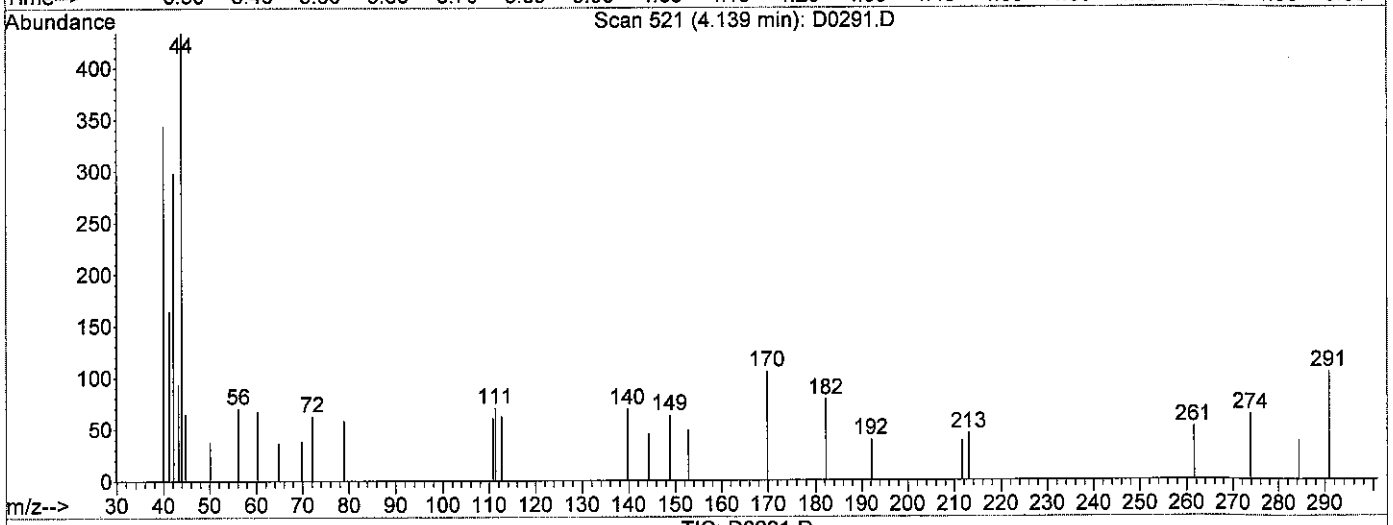
07/15/16

Quantitation Report (Qedit)

Data File : I:\ACQUDATA\MSVOA6\DATA\071416\D0291.D Vial: 15
Acq On : 14 Jul 2016 2:34 pm Operator: D.LIPANI
Sample : STD #3 - 2.0 PPB Inst : MS#6
Misc : 8260C / 624 ICAL GCMS#6 Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Jul 15 11:21 2016 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA6\METHODS\W071416.M (RTE Integrator)
Title : 8260C / 624 WATERS
Last Update : Fri Jul 15 11:17:32 2016
Response via : Single Level Calibration





TIC: D0291.D

(38) Tetrahydrofuran

4.14min 2.10ug/L m

response 1068

Ion	Exp%	Act%
42.00	100	100
72.00	35.70	20.81
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

Peak not found.

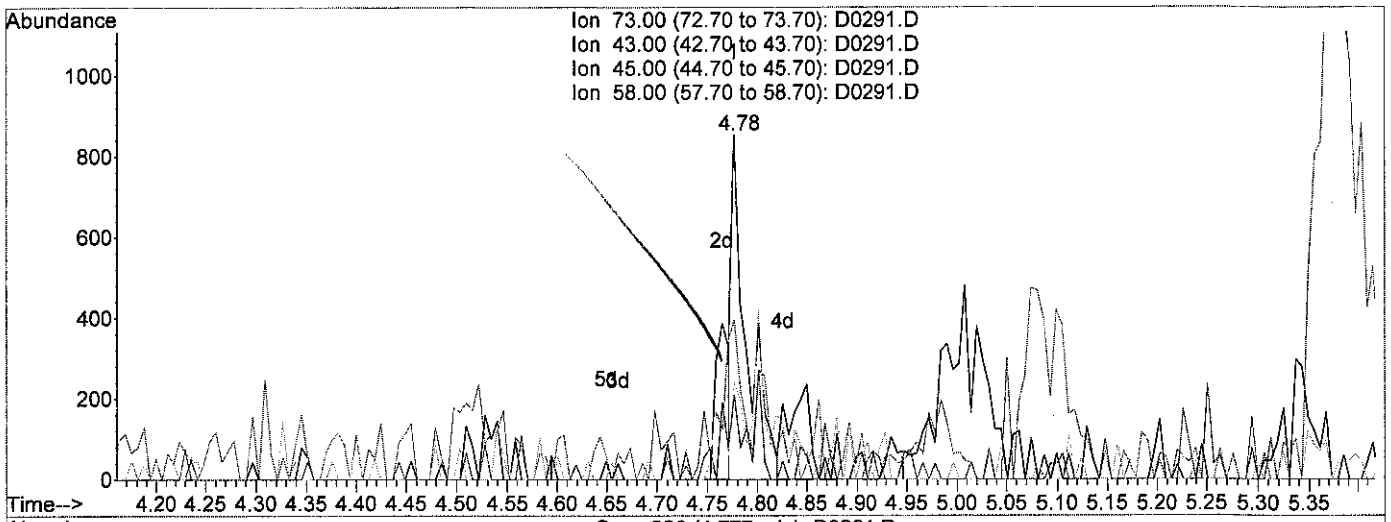
07/15/16 DL

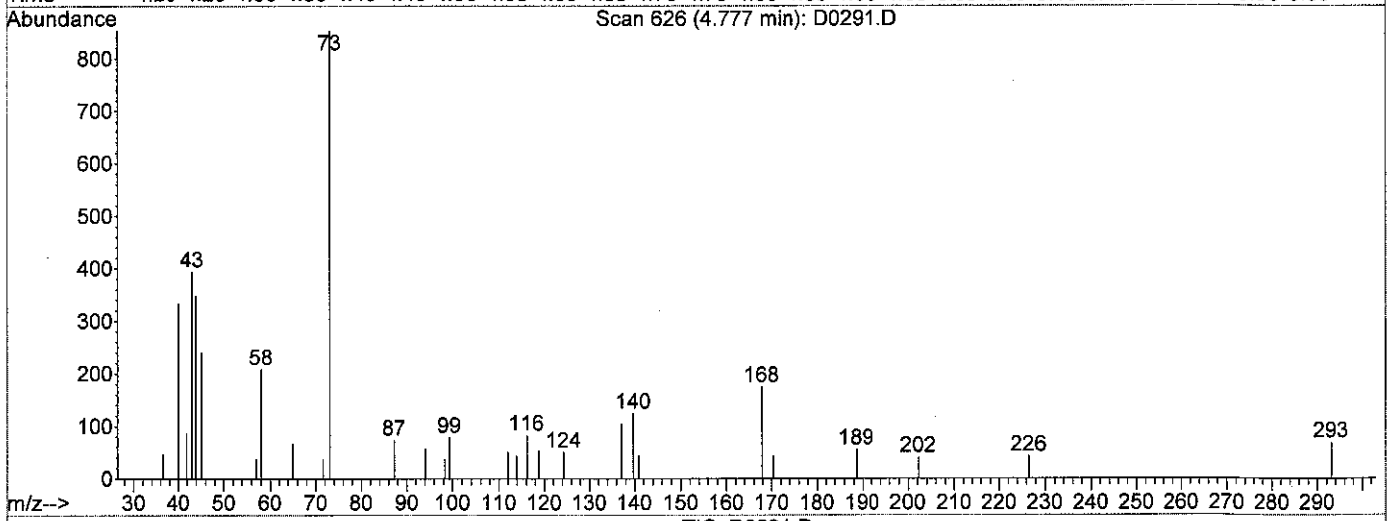
FV 7/18/16

Quantitation Report (Qedit)

Data File : I:\ACQUDATA\MSVOA6\DATA\071416\D0291.D Vial: 15
Acq On : 14 Jul 2016 2:34 pm Operator: D.LIPANI
Sample : STD #3 - 2.0 PPB Inst : MS#6
Misc : 8260C / 624 ICAL GCMS#6 Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Jul 15 11:21 2016 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA6\METHODS\W071416.M (RTE Integrator)
Title : 8260C / 624 WATERS
Last Update : Fri Jul 15 11:17:32 2016
Response via : Multiple Level Calibration





TIC: D0291.D

(45) 2-Methyl-1,3-Dioxolane

4.78min 4.50ug/L

response 908

Ion	Exp%	Act%
73.00	100	100
43.00	43.50	46.19
45.00	43.50	28.14
58.00	19.20	24.38

Manual Integration:

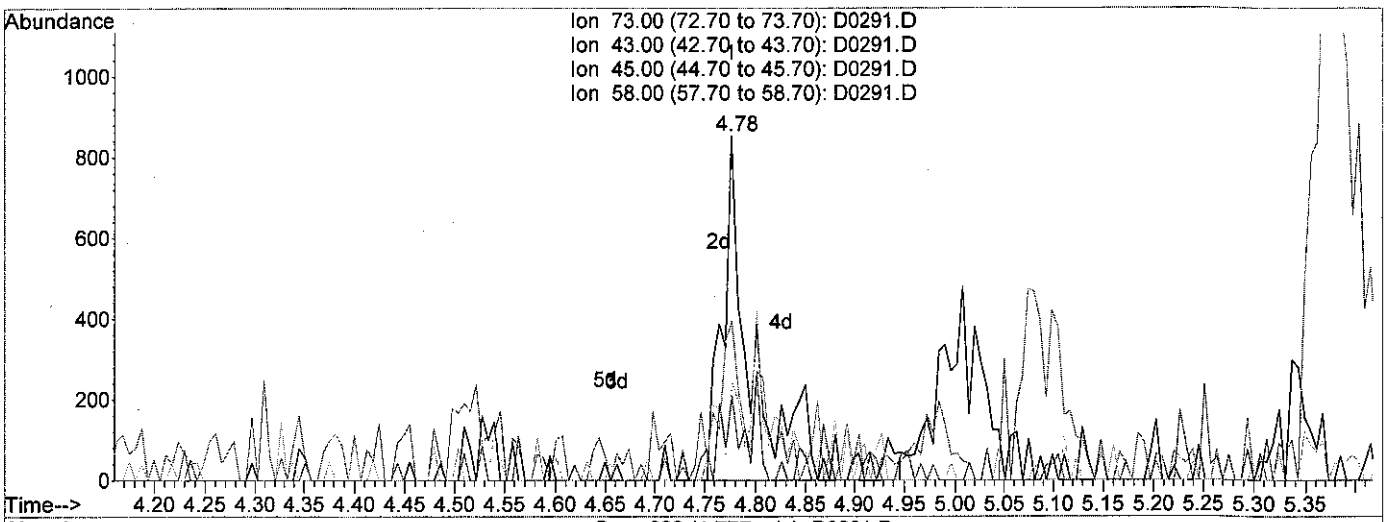
Before

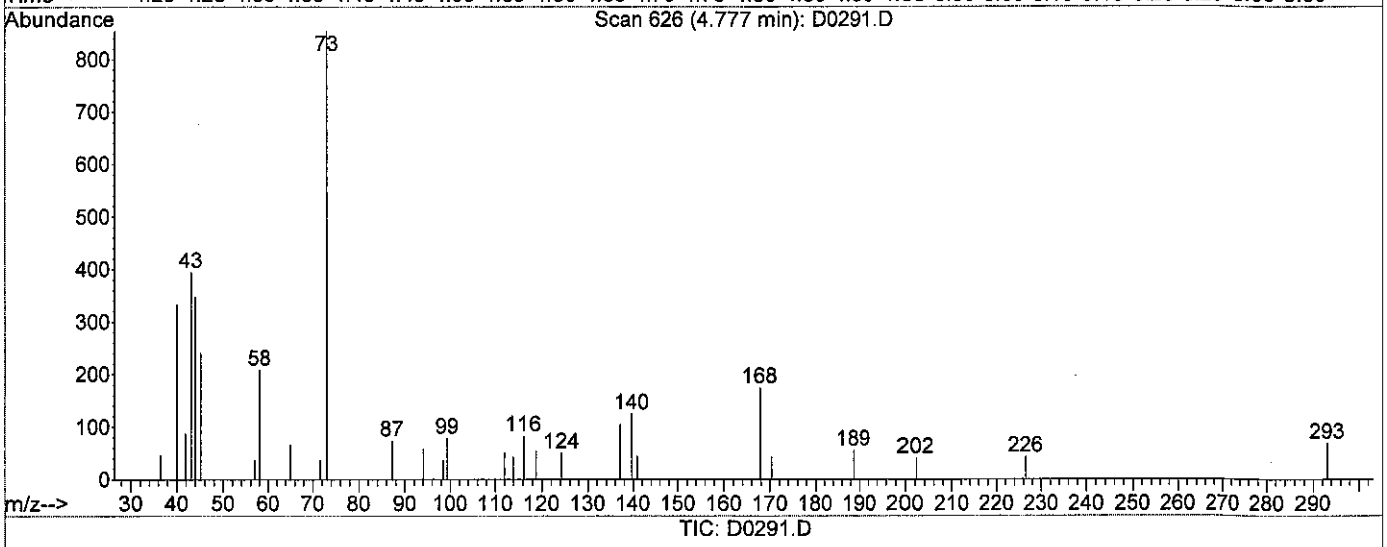
07/15/16

Quantitation Report (Qedit)

Data File : I:\ACQUDATA\MSVOA6\DATA\071416\D0291.D Vial: 15
Acq On : 14 Jul 2016 2:34 pm Operator: D.LIPANI
Sample : STD #3 - 2.0 PPB Inst : MS#6
Misc : 8260C / 624 ICAL GCMS#6 Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Jul 15 11:22 2016 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA6\METHODS\W071416.M (RTE Integrator)
Title : 8260C / 624 WATERS
Last Update : Fri Jul 15 11:17:32 2016
Response via : Multiple Level Calibration





(45) 2-Methyl-1,3-Dioxolane

4.78min 8.05ug/L m

response 1625

Ion	Exp%	Act%
73.00	100	100
43.00	43.50	46.19
45.00	43.50	28.14
58.00	19.20	24.38

Manual Integration:

After

Split Peak.

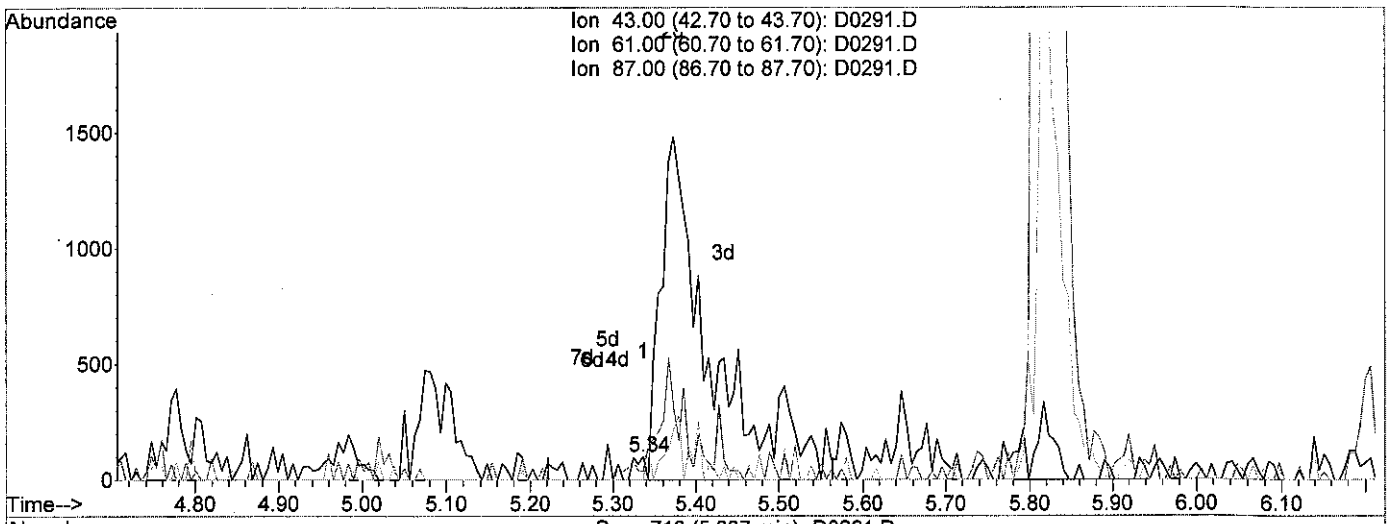
07/15/16 DL

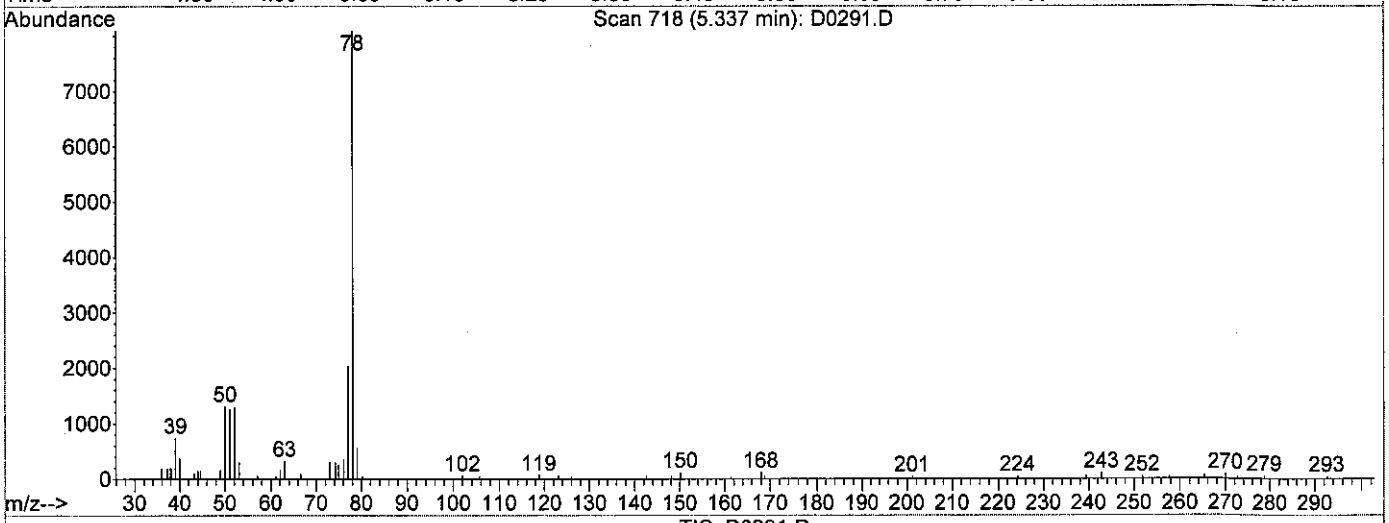
FP 7/18/16

Quantitation Report (Qedit)

Data File : I:\ACQUDATA\MSVOA6\DATA\071416\D0291.D Vial: 15
Acq On : 14 Jul 2016 2:34 pm Operator: D.LIPANI
Sample : STD #3 - 2.0 PPB Inst : MS#6
Misc : 8260C / 624 ICAL GCMS#6 Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Jul 15 11:22 2016 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA6\METHODS\W071416.M (RTE Integrator)
Title : 8260C / 624 WATERS
Last Update : Fri Jul 15 11:17:32 2016
Response via : Single Level Calibration





(50) Isopropyl Acetate

5.34min 0.03ug/L

response 96

Ion	Exp%	Act%
43.00	100	100
61.00	23.10	37.00
87.00	9.20	0.00
0.00	0.00	0.00

Manual Integration:

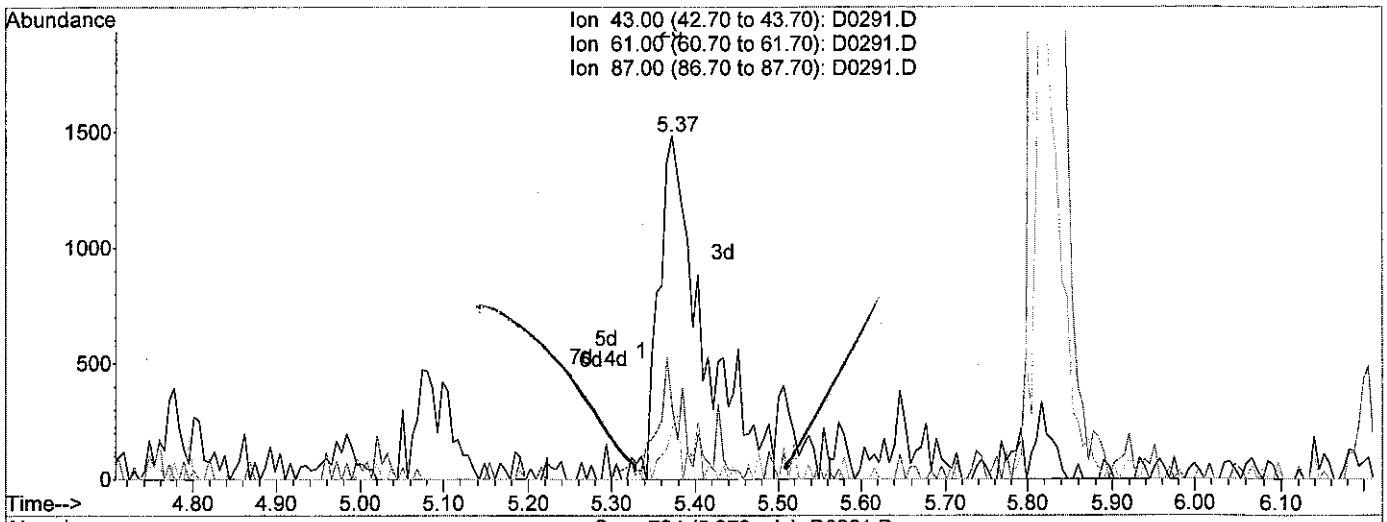
Before

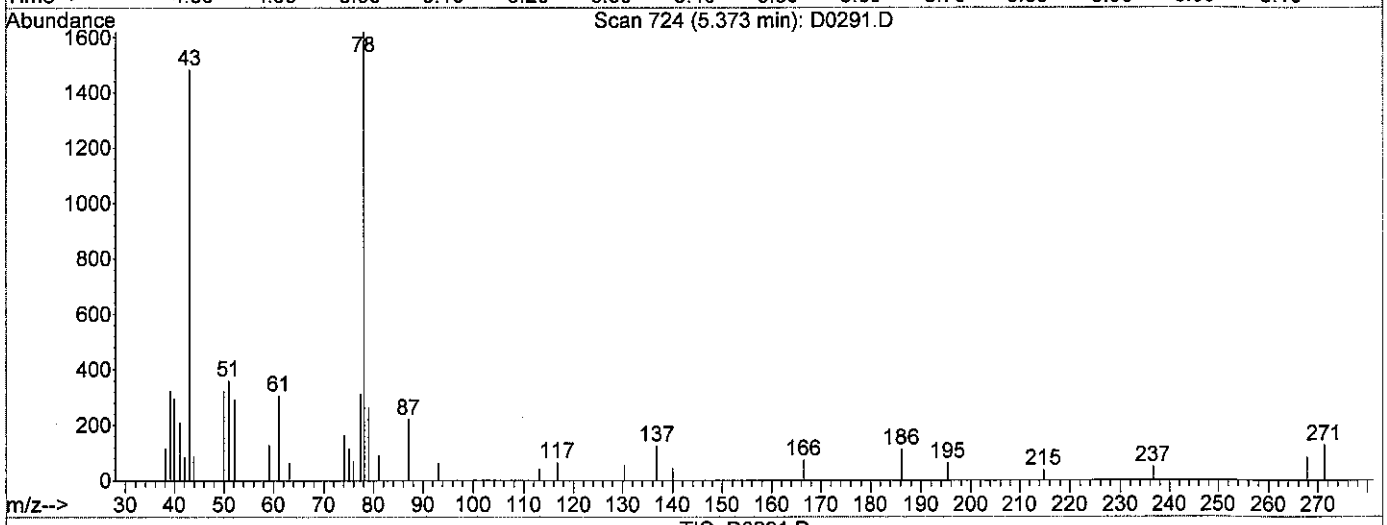
07/15/16

Quantitation Report (Qedit)

Data File : I:\ACQUDATA\MSVOA6\DATA\071416\D0291.D Vial: 15
Acq On : 14 Jul 2016 2:34 pm Operator: D.LIPANI
Sample : STD #3 - 2.0 PPB Inst : MS#6
Misc : 8260C / 624 ICAL GCMS#6 Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Jul 15 11:23 2016 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA6\METHODS\W071416.M (RTE Integrator)
Title : 8260C / 624 WATERS
Last Update : Fri Jul 15 11:17:32 2016
Response via : Single Level Calibration





(50) Isopropyl Acetate

5.37min 1.52ug/L m

response 5425

Ion	Exp%	Act%
43.00	100	100
61.00	23.10	20.51
87.00	9.20	14.84
0.00	0.00	0.00

Manual Integration:

After

Peak not found.

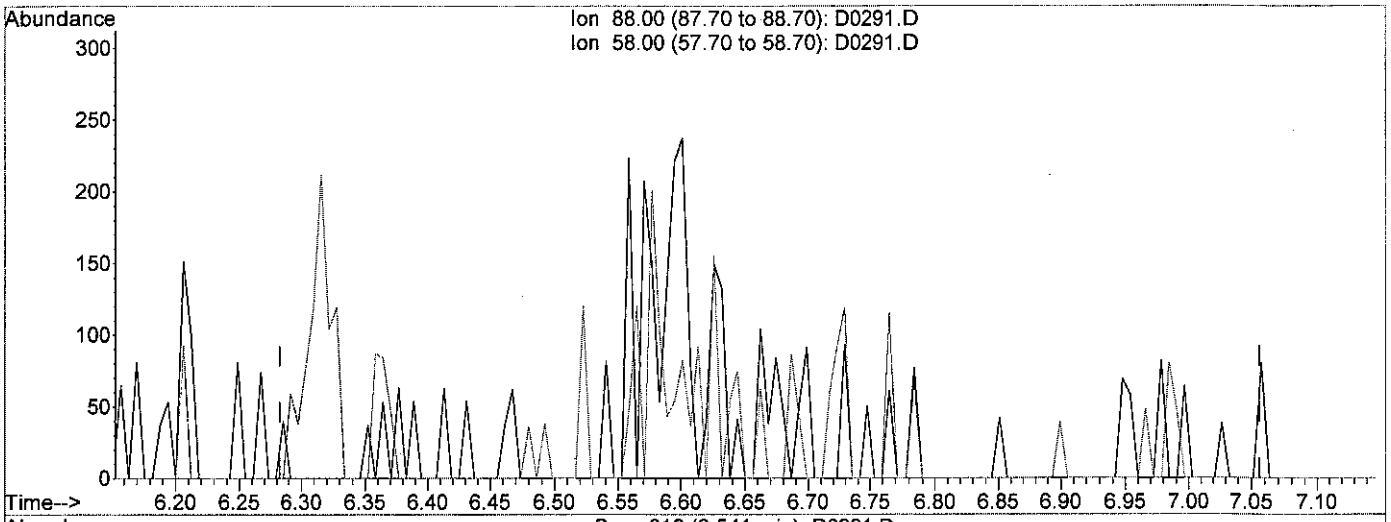
07/15/16 DL

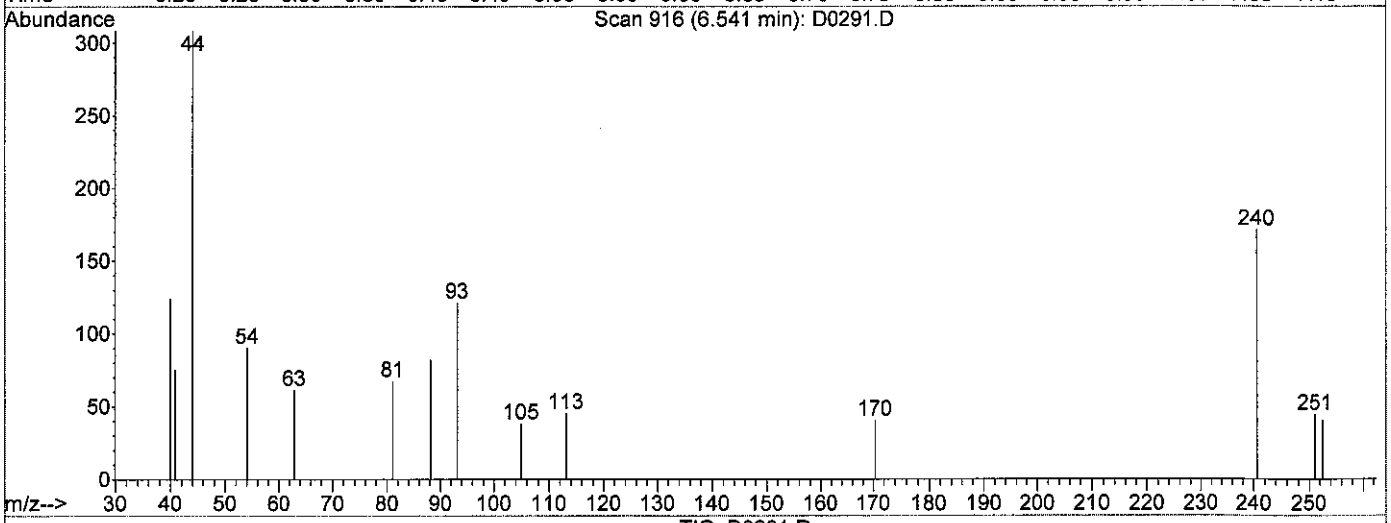
FW 7/18/16

Quantitation Report (Qedit)

Data File : I:\ACQUDATA\MSVOA6\DATA\071416\D0291.D Vial: 15
Acq On : 14 Jul 2016 2:34 pm Operator: D.LIPANI
Sample : STD #3 - 2.0 PPB Inst : MS#6
Misc : 8260C / 624 ICAL GCMS#6 Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Jul 15 11:23 2016 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA6\METHODS\W071416.M (RTE Integrator)
Title : 8260C / 624 WATERS
Last Update : Fri Jul 15 11:17:32 2016
Response via : Single Level Calibration





TIC: D0291.D

(57) 1,4-Dioxane

6.54min 0.00ug/L

response 0

Ion	Exp%	Act%
88.00	100	0.00
58.00	66.60	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

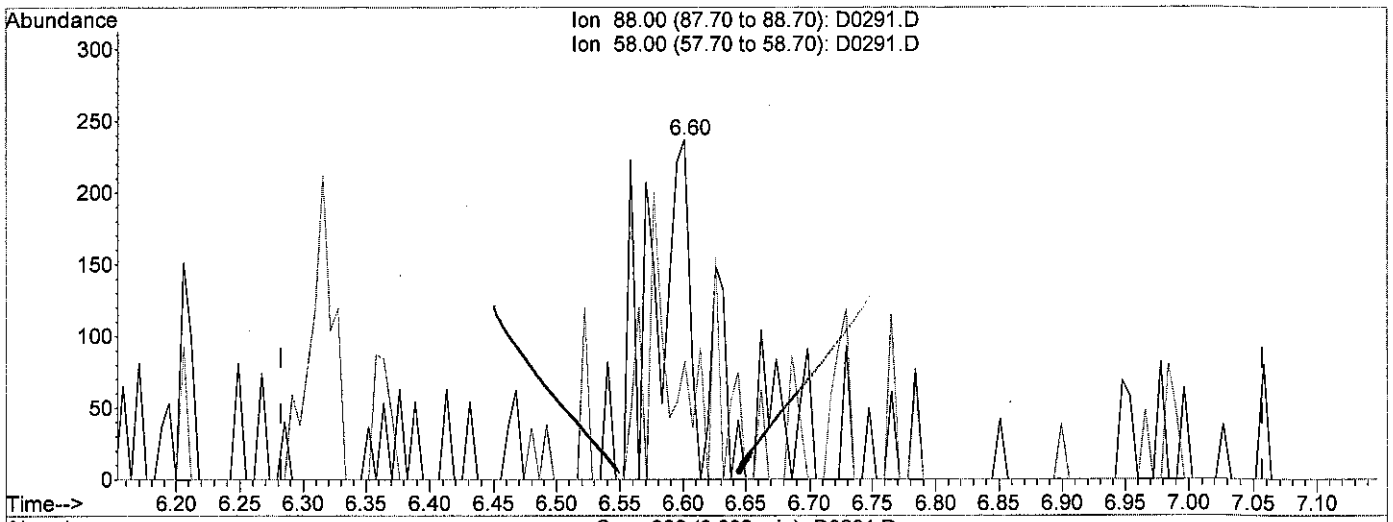
Before

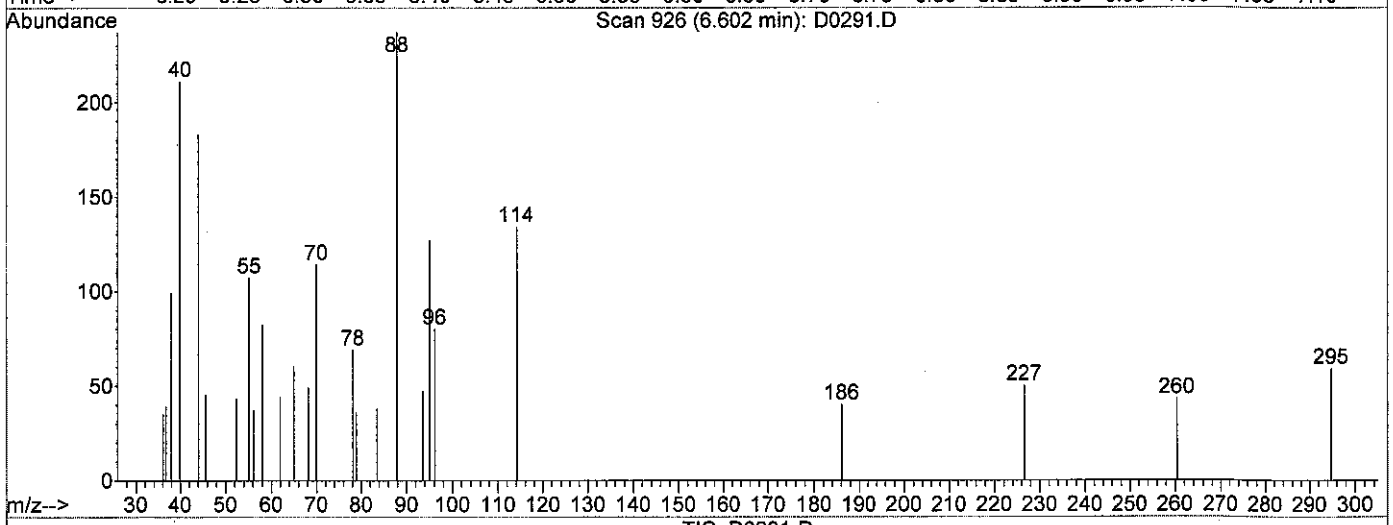
07/15/16

Quantitation Report (Qedit)

Data File : I:\ACQUDATA\MSVOA6\DATA\071416\D0291.D Vial: 15
Acq On : 14 Jul 2016 2:34 pm Operator: D.LIPANI
Sample : STD #3 - 2.0 PPB Inst : MS#6
Misc : 8260C / 624 ICAL GCMS#6 Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Jul 15 11:23 2016 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA6\METHODS\W071416.M (RTE Integrator)
Title : 8260C / 624 WATERS
Last Update : Fri Jul 15 11:17:32 2016
Response via : Single Level Calibration





TIC: D0291.D

(57) 1,4-Dioxane

6.60min 41.01ug/L m

response 592

Ion	Exp%	Act%
88.00	100	100
58.00	66.60	34.60#
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

Peak not found.

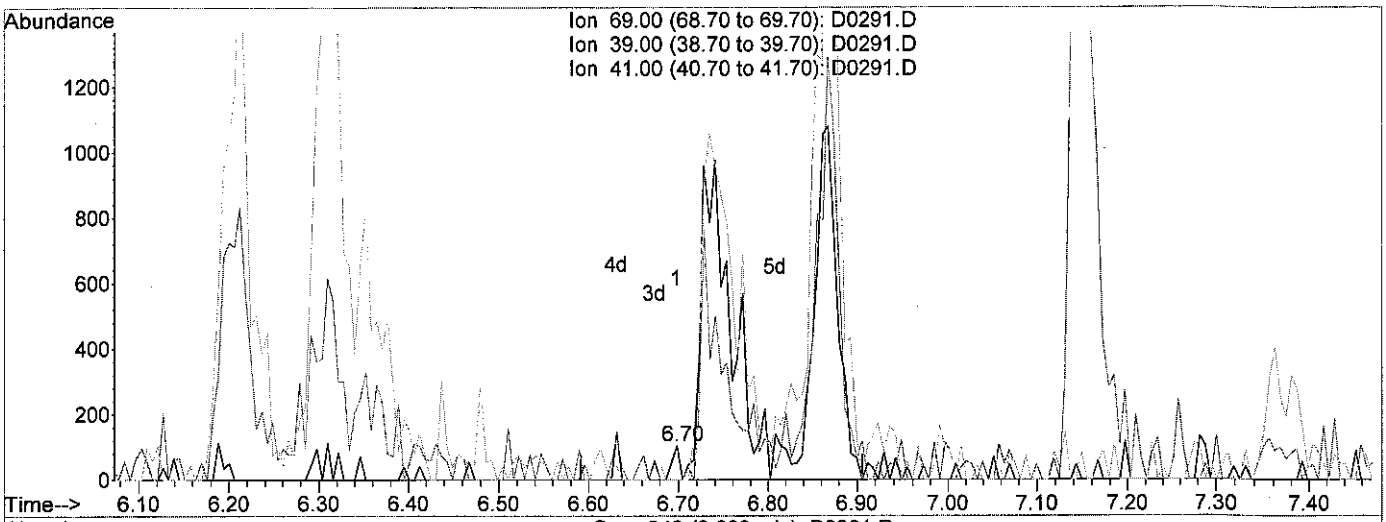
07/15/16

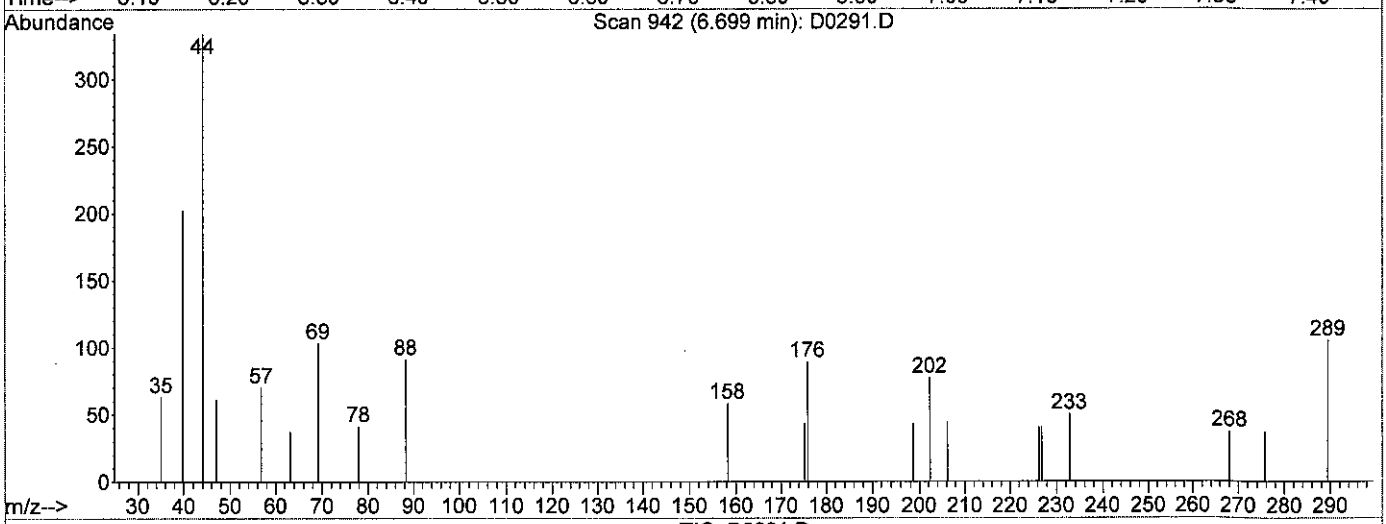
FN 7/18/16

Quantitation Report (Qedit)

Data File : I:\ACQUDATA\MSVOA6\DATA\071416\D0291.D Vial: 15
Acq On : 14 Jul 2016 2:34 pm Operator: D.LIPANI
Sample : STD #3 - 2.0 PPB Inst : MS#6
Misc : 8260C / 624 ICAL GCMS#6 Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Jul 15 11:23 2016 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA6\METHODS\W071416.M (RTE Integrator)
Title : 8260C / 624 WATERS
Last Update : Fri Jul 15 11:17:32 2016
Response via : Multiple Level Calibration





TIC: D0291.D

(59) Methyl Methacrylate

6.70min 0.04ug/L

response 57

Ion	Exp%	Act%
69.00	100	100
39.00	65.90	0.00#
41.00	135.70	0.00#
0.00	0.00	0.00

Manual Integration:

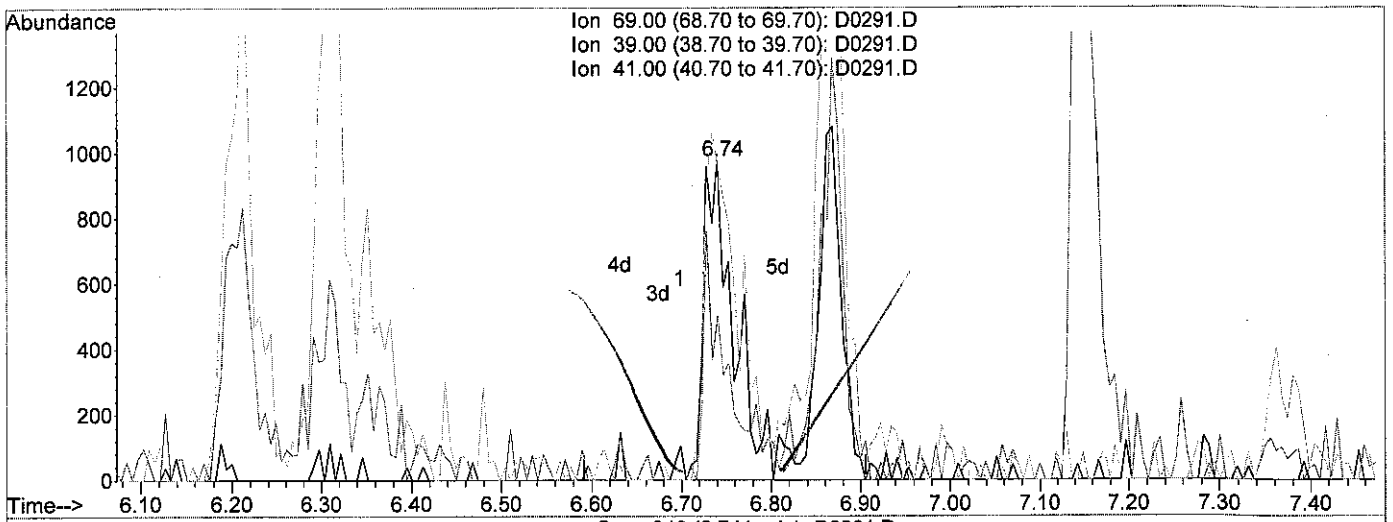
Before

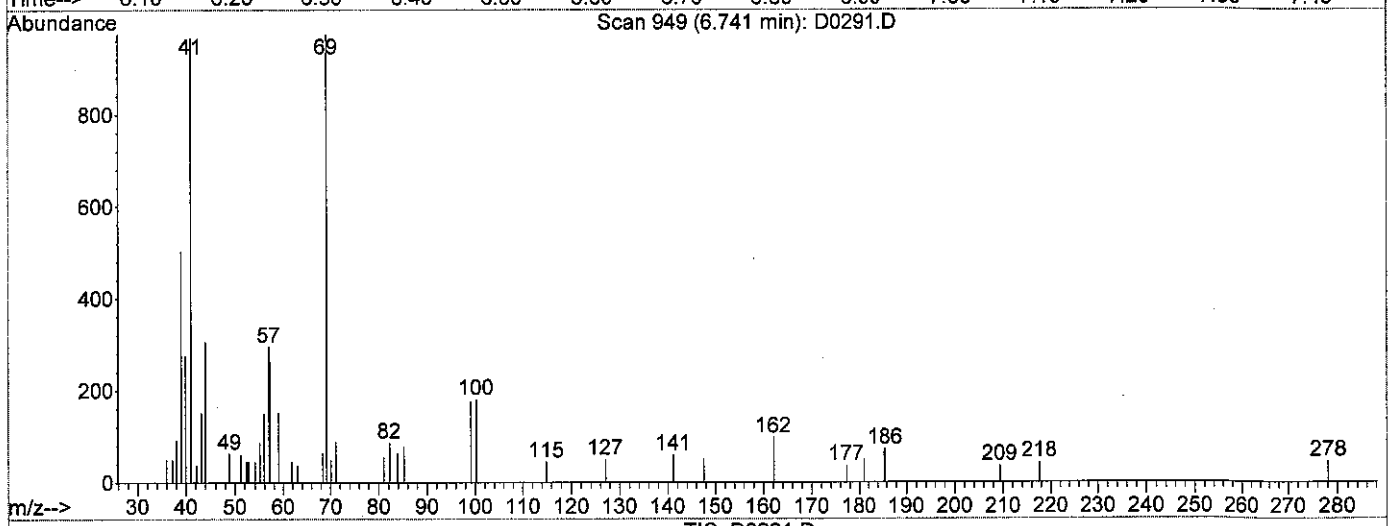
07/15/16

Quantitation Report (Qedit)

Data File : I:\ACQUDATA\MSVOA6\DATA\071416\D0291.D Vial: 15
Acq On : 14 Jul 2016 2:34 pm Operator: D.LIPANI
Sample : STD #3 - 2.0 PPB Inst : MS#6
Misc : 8260C / 624 ICAL GCMS#6 Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Jul 15 11:24 2016 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA6\METHODS\W071416.M (RTE Integrator)
Title : 8260C / 624 WATERS
Last Update : Fri Jul 15 11:17:32 2016
Response via : Multiple Level Calibration





(59) Methyl Methacrylate

6.74min 1.76ug/L m

response 2271

Ion	Exp%	Act%
69.00	100	100
39.00	65.90	51.49
41.00	135.70	99.08#
0.00	0.00	0.00

Manual Integration:

After

Peak not found.

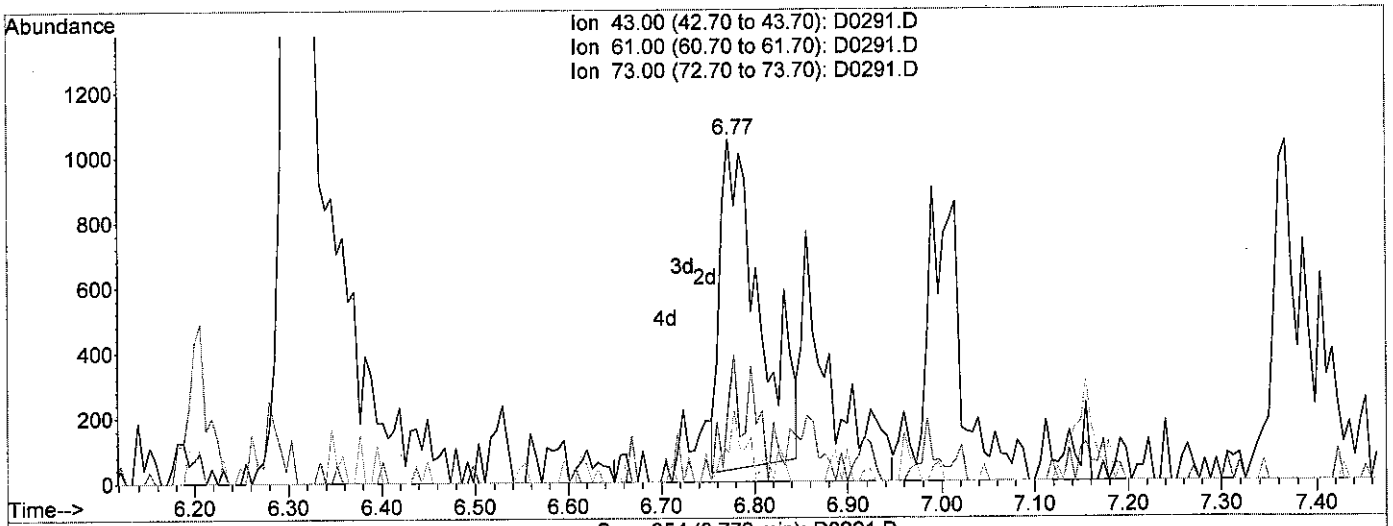
07/15/16 DL

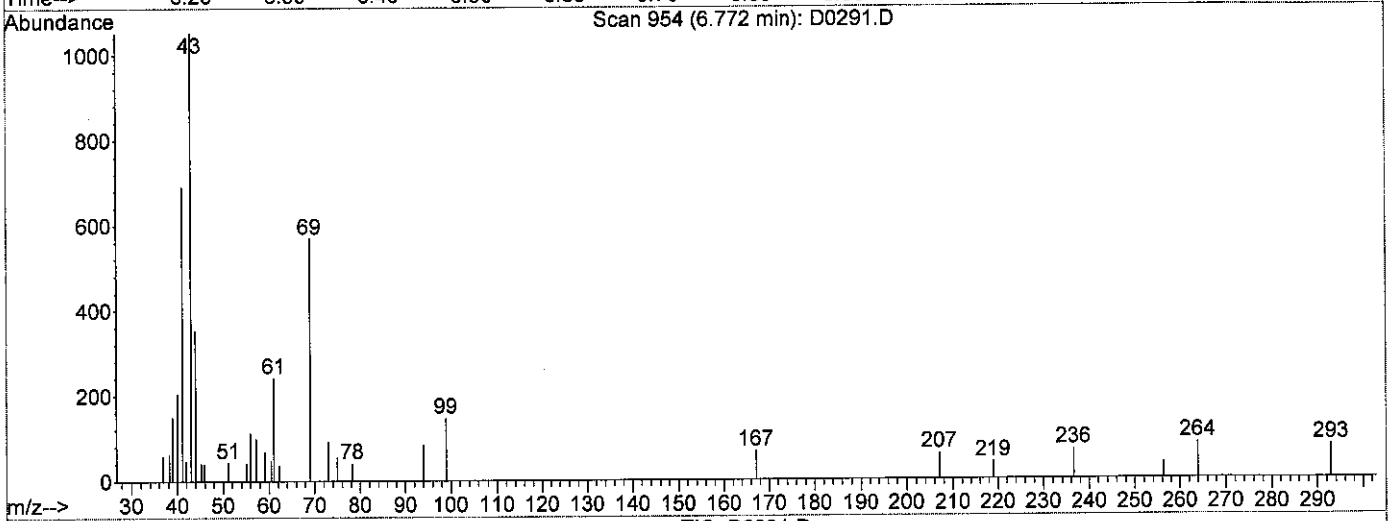
7/18/16

Quantitation Report (Qedit)

Data File : I:\ACQUDATA\MSVOA6\DATA\071416\D0291.D Vial: 15
Acq On : 14 Jul 2016 2:34 pm Operator: D.LIPANI
Sample : STD #3 - 2.0 PPB Inst : MS#6
Misc : 8260C / 624 ICAL GCMS#6 Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Jul 15 11:24 2016 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA6\METHODS\W071416.M (RTE Integrator)
Title : 8260C / 624 WATERS
Last Update : Fri Jul 15 11:17:32 2016
Response via : Single Level Calibration





(60) n-Propyl Acetate

6.77min 1.22ug/L

response 2964

Ion	Exp%	Act%
43.00	100	100
61.00	27.80	22.91
73.00	11.70	8.65
0.00	0.00	0.00

Manual Integration:

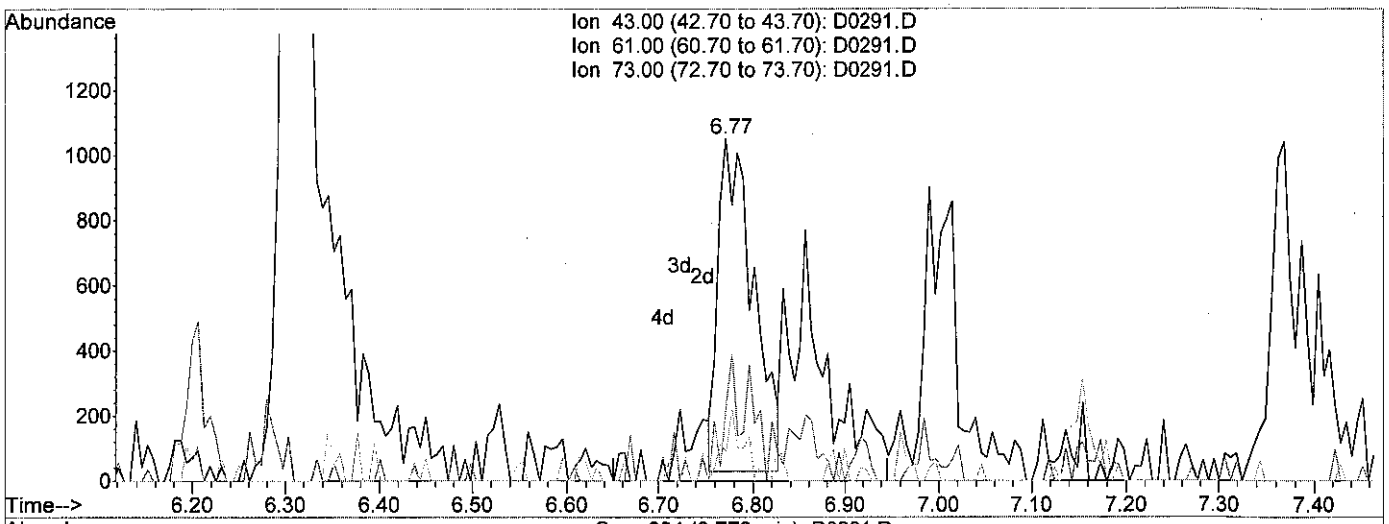
Before

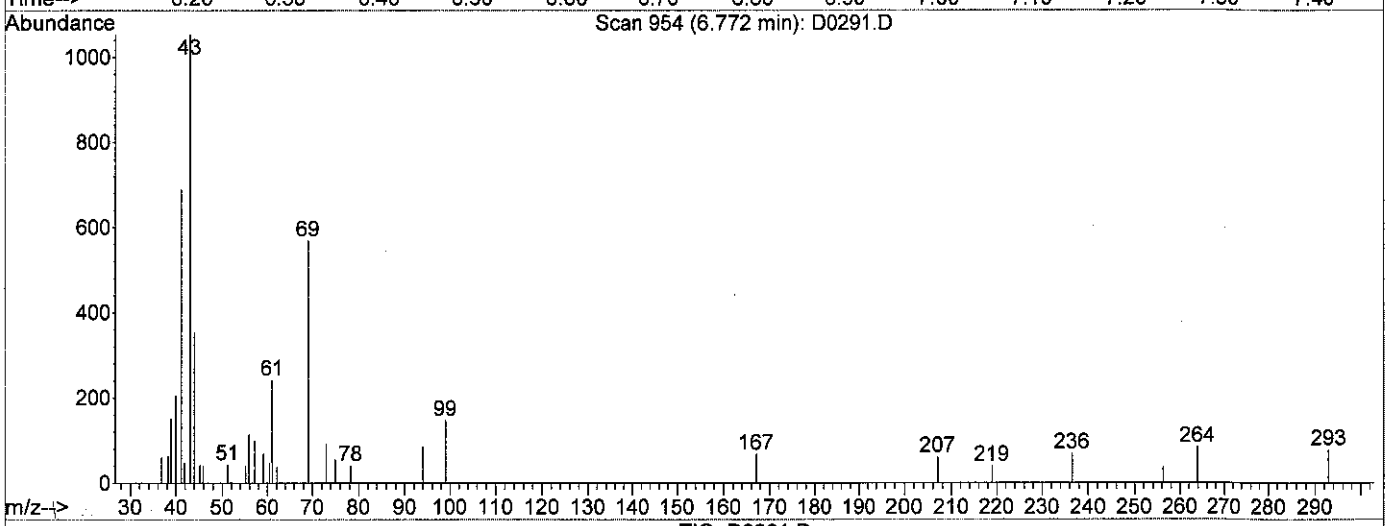
07/15/16

Quantitation Report (Qedit)

Data File : I:\ACQUDATA\MSVOA6\DATA\071416\D0291.D Vial: 15
Acq On : 14 Jul 2016 2:34 pm Operator: D.LIPANI
Sample : STD #3 - 2.0 PPB Inst : MS#6
Misc : 8260C / 624 ICAL GCMS#6 Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Jul 15 11:25 2016 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA6\METHODS\W071416.M (RTE Integrator)
Title : 8260C / 624 WATERS
Last Update : Fri Jul 15 11:17:32 2016
Response via : Single Level Calibration





(60) n-Propyl Acetate

6.77min 1.08ug/L m

response 2627

Ion	Exp%	Act%
43.00	100	100
61.00	27.80	22.91
73.00	11.70	8.65
0.00	0.00	0.00

Manual Integration:

After

Peak Reintegration. (poor int.)

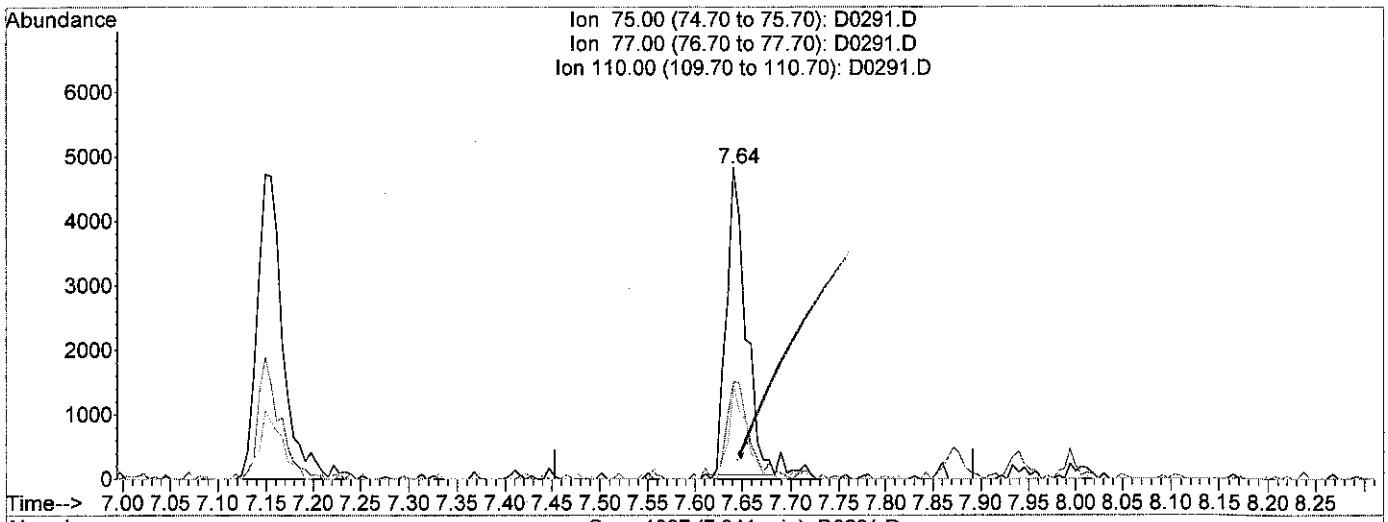
07/15/16 DL (peak not used)

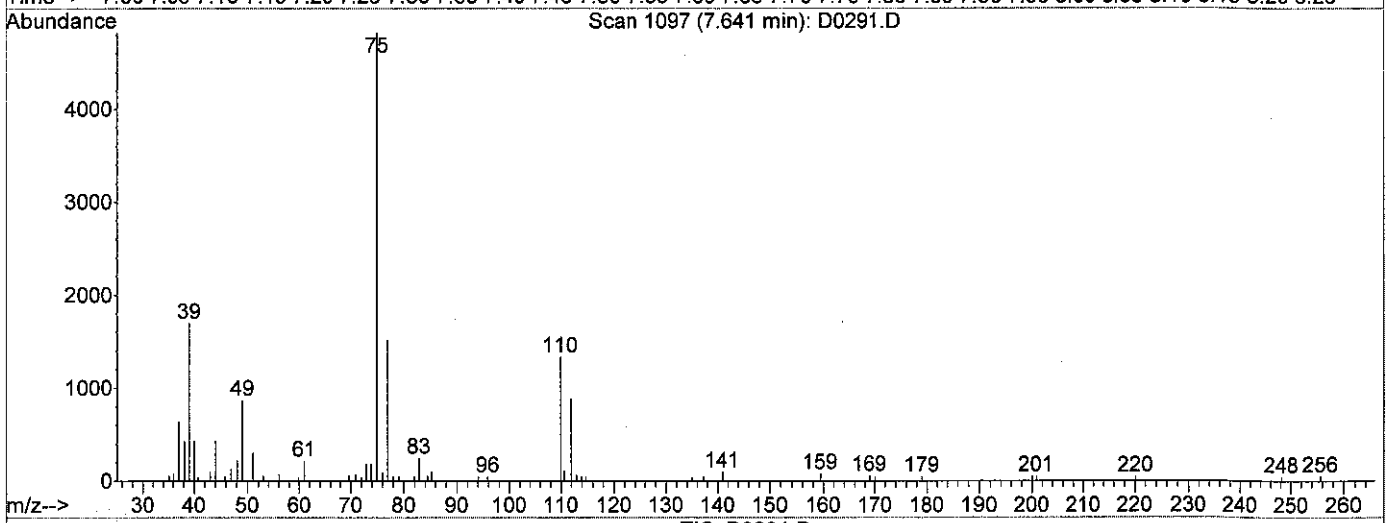
FJ 7/18/16

Quantitation Report (Qedit)

Data File : I:\ACQUDATA\MSVOA6\DATA\071416\D0291.D Vial: 15
Acq On : 14 Jul 2016 2:34 pm Operator: D.LIPANI
Sample : STD #3 - 2.0 PPB Inst : MS#6
Misc : 8260C / 624 ICAL GCMS#6 Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Jul 15 11:25 2016 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA6\METHODS\W071416.M (RTE Integrator)
Title : 8260C / 624 WATERS
Last Update : Fri Jul 15 11:17:32 2016
Response via : Multiple Level Calibration





TIC: D0291.D

(65) trans-1,3-Dichloropropene

7.64min 1.83ug/L

response 6660

Ion	Exp%	Act%
75.00	100	100
77.00	32.80	36.89
110.00	26.00	28.44
0.00	0.00	0.00

Manual Integration:

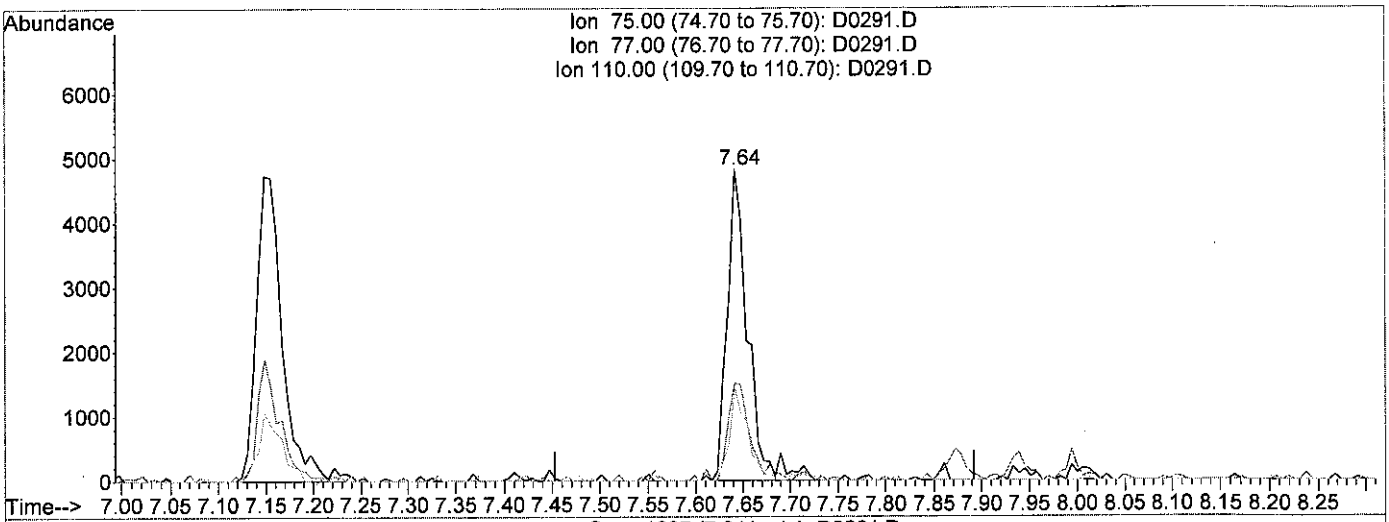
Before

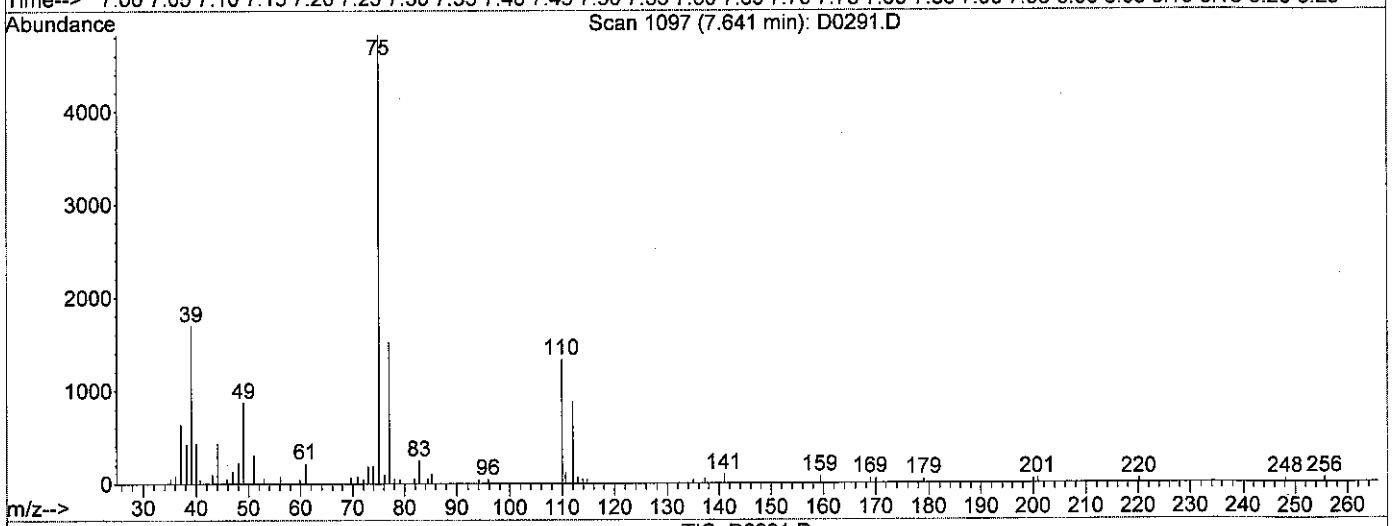
07/15/16

Quantitation Report (Qedit)

Data File : I:\ACQUDATA\MSVOA6\DATA\071416\D0291.D Vial: 15
Acq On : 14 Jul 2016 2:34 pm Operator: D.LIPANI
Sample : STD #3 - 2.0 PPB Inst : MS#6
Misc : 8260C / 624 ICAL GCMS#6 Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Jul 15 11:26 2016 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA6\METHODS\W071416.M (RTE Integrator)
Title : 8260C / 624 WATERS
Last Update : Fri Jul 15 11:17:32 2016
Response via : Multiple Level Calibration





(65) trans-1,3-Dichloropropene

7.64min 1.91ug/L m

response 6942

Ion	Exp%	Act%
75.00	100	100
77.00	32.80	35.39
110.00	26.00	27.28
0.00	0.00	0.00

Manual Integration:

After

~~Before~~ Integration. (poor integration)

07/15/16

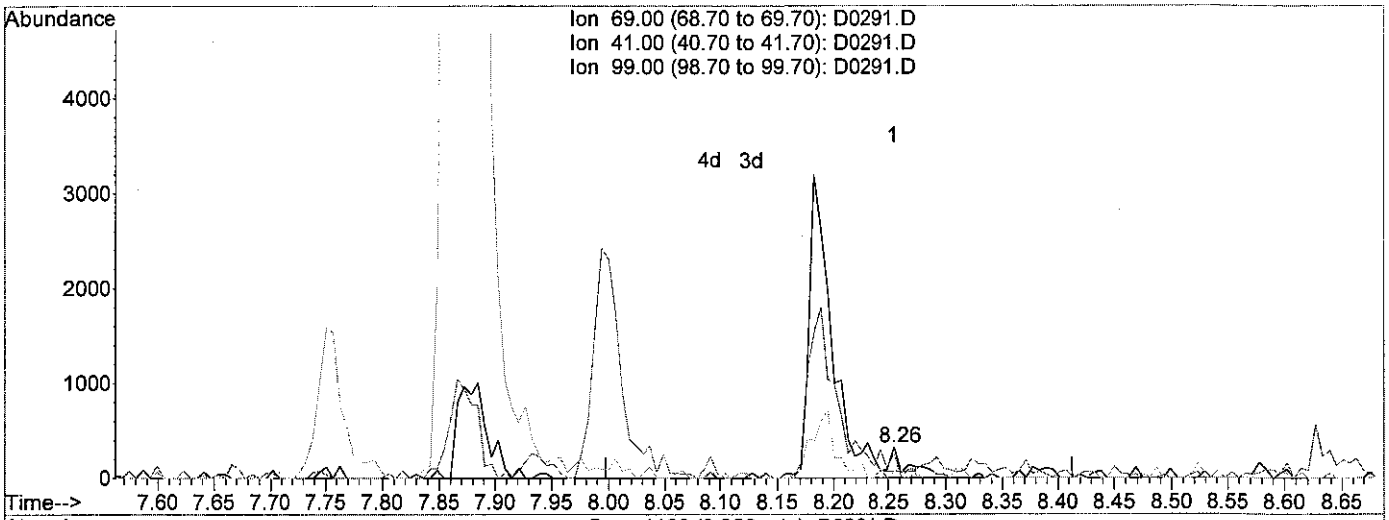
DL

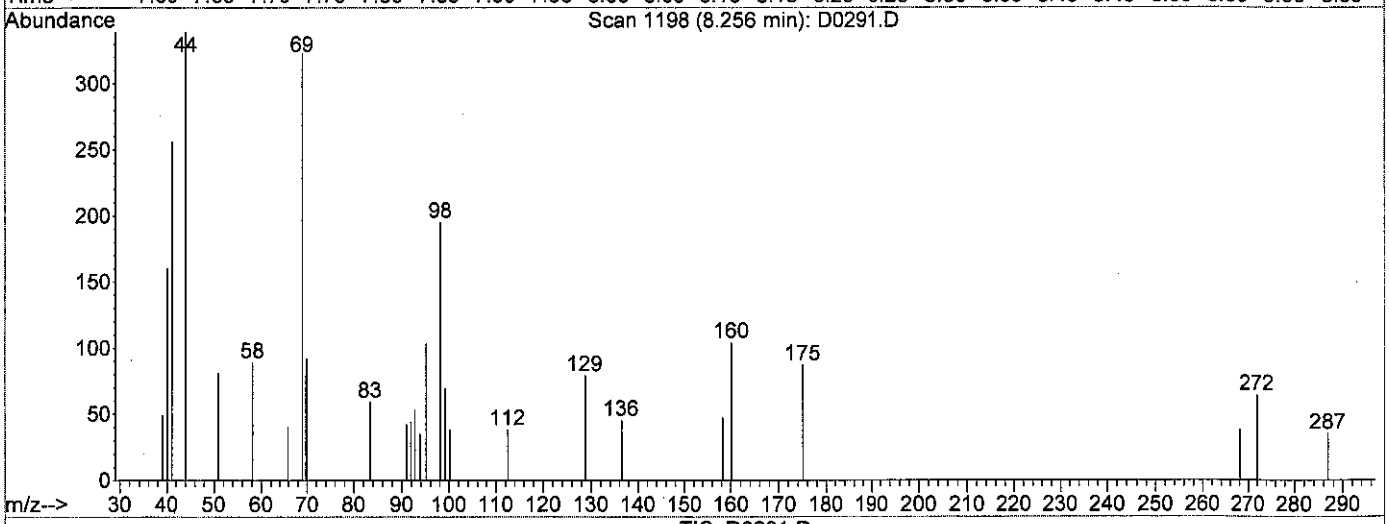
FD 7/18/16

Quantitation Report (Qedit)

Data File : I:\ACQUDATA\MSVOA6\DATA\071416\D0291.D Vial: 15
Acq On : 14 Jul 2016 2:34 pm Operator: D.LIPANI
Sample : STD #3 - 2.0 PPB Inst : MS#6
Misc : 8260C / 624 ICAL GCMS#6 Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Jul 15 11:26 2016 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA6\METHODS\W071416.M (RTE Integrator)
Title : 8260C / 624 WATERS
Last Update : Fri Jul 15 11:17:32 2016
Response via : Multiple Level Calibration





TIC: D0291.D

(71) Ethyl Methacrylate

8.26min 0.05ug/L

response 133

Ion	Exp%	Act%
69.00	100	100
41.00	71.40	79.26
99.00	21.60	21.36
0.00	0.00	0.00

Manual Integration:

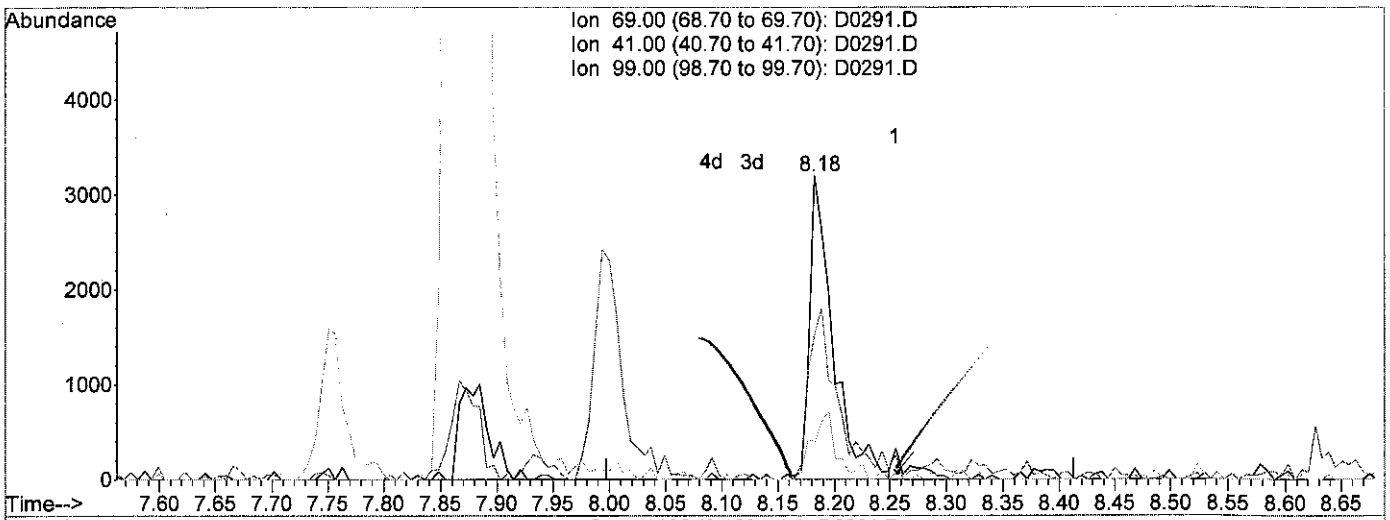
Before

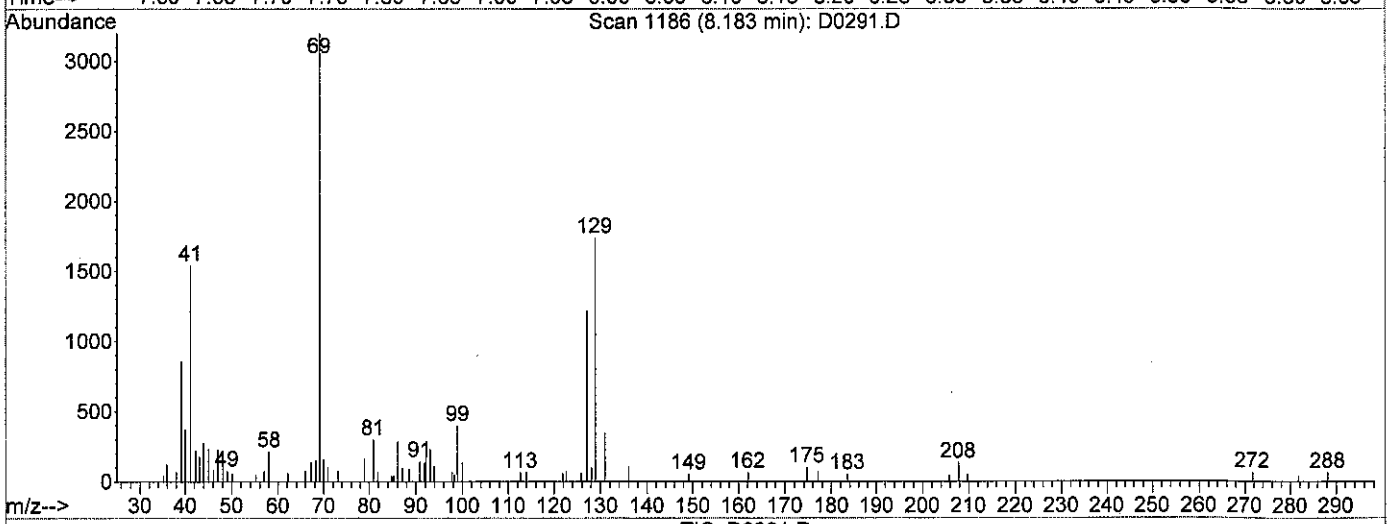
07/15/16

Quantitation Report (Qedit)

Data File : I:\ACQUDATA\MSVOA6\DATA\071416\D0291.D Vial: 15
Acq On : 14 Jul 2016 2:34 pm Operator: D.LIPANI
Sample : STD #3 - 2.0 PPB Inst : MS#6
Misc : 8260C / 624 ICAL GCMS#6 Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Jul 15 11:27 2016 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA6\METHODS\W071416.M (RTE Integrator)
Title : 8260C / 624 WATERS
Last Update : Fri Jul 15 11:17:32 2016
Response via : Multiple Level Calibration





TIC: D0291.D

(71) Ethyl Methacrylate

8.18min 1.79ug/L m

response 4623

Ion	Exp%	Act%
69.00	100	100
41.00	71.40	48.16#
99.00	21.60	12.41
0.00	0.00	0.00

Manual Integration:

After

Peak not found.

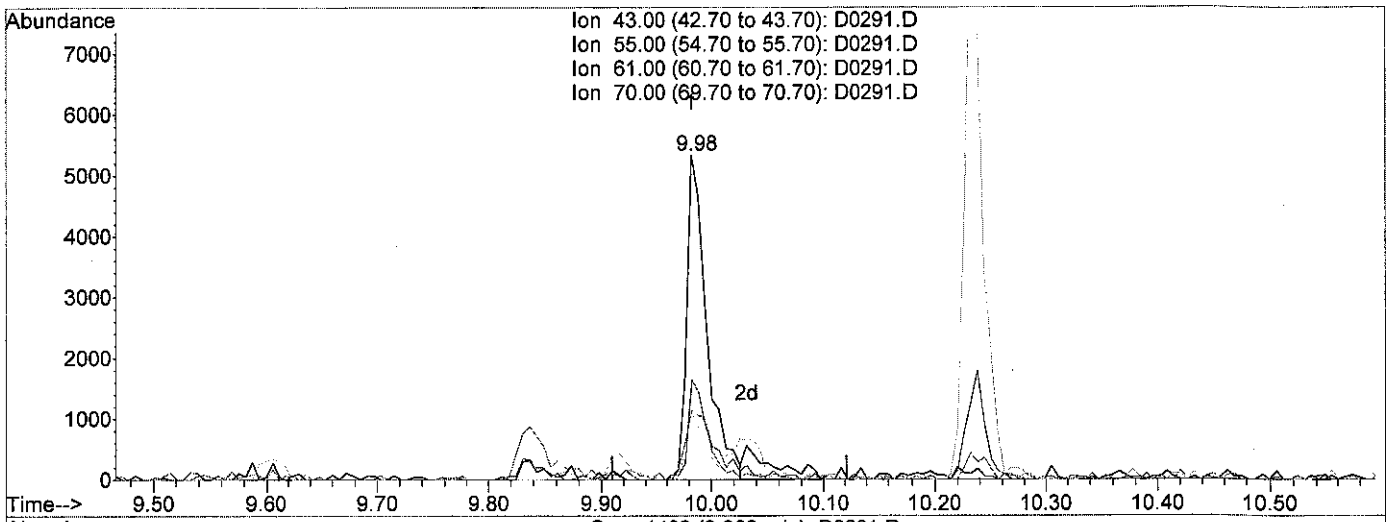
07/15/16 DL

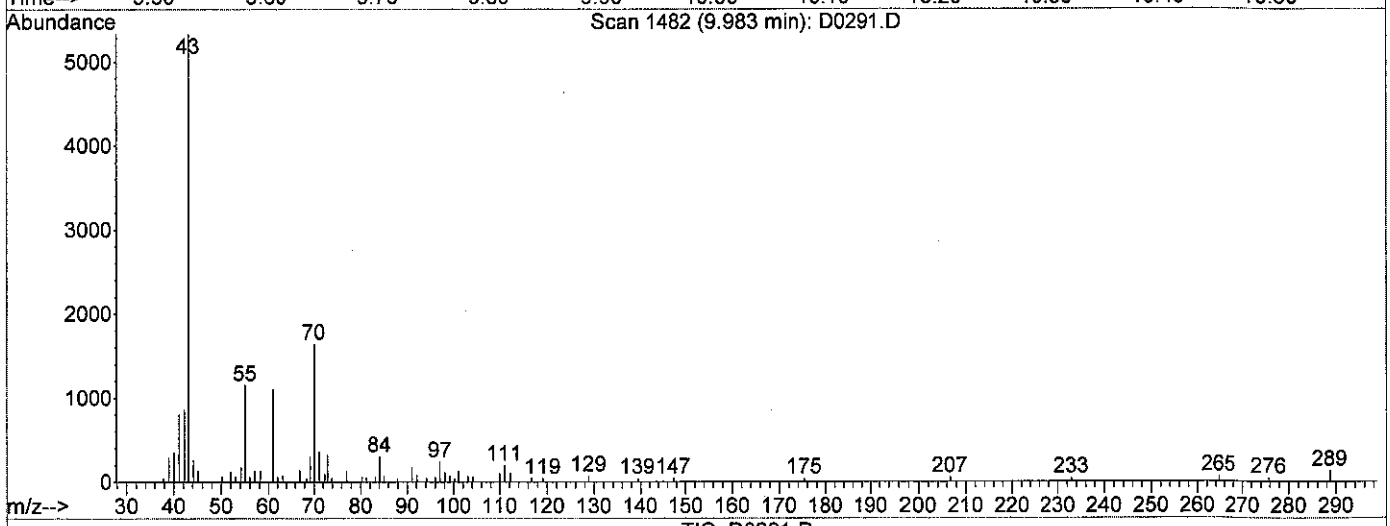
FD 7/19/16

Quantitation Report (Qedit)

Data File : I:\ACQUDATA\MSVOA6\DATA\071416\D0291.D Vial: 15
Acq On : 14 Jul 2016 2:34 pm Operator: D.LIPANI
Sample : STD #3 - 2.0 PPB Inst : MS#6
Misc : 8260C / 624 ICAL GCMS#6 Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Jul 15 11:27 2016 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA6\METHODS\W071416.M (RTE Integrator)
Title : 8260C / 624 WATERS
Last Update : Fri Jul 15 11:17:32 2016
Response via : Multiple Level Calibration





TIC: D0291.D

(85) Amyl Acetate

9.98min 1.77ug/L

response 6702

Ion	Exp%	Act%
43.00	100	100
55.00	24.50	21.51
61.00	26.30	20.50
70.00	42.00	30.68

Manual Integration:

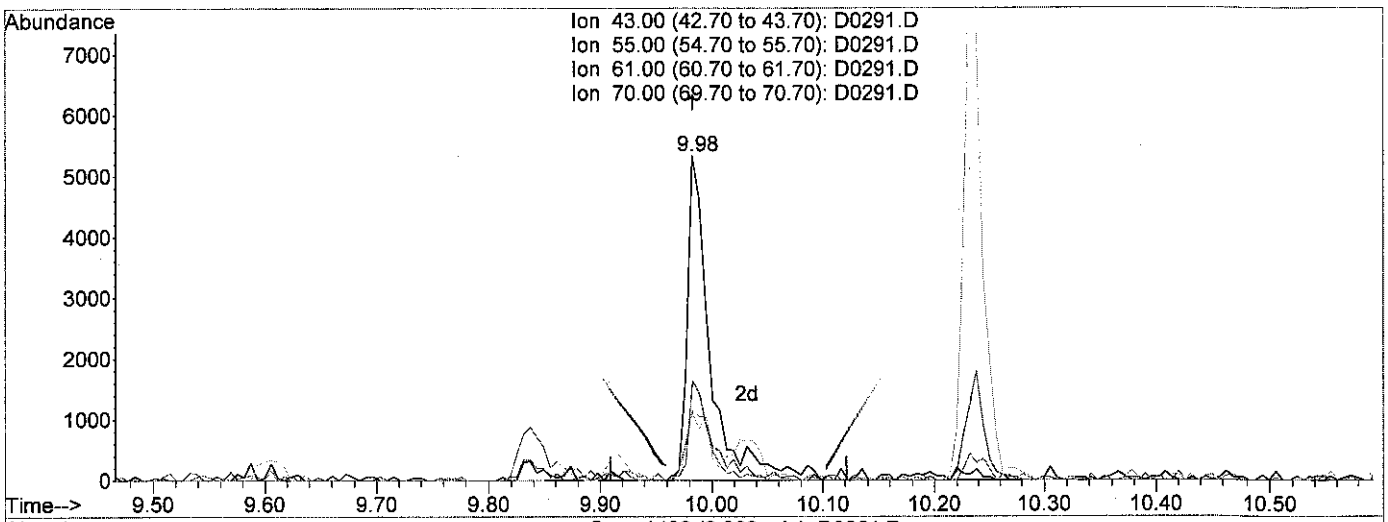
Before

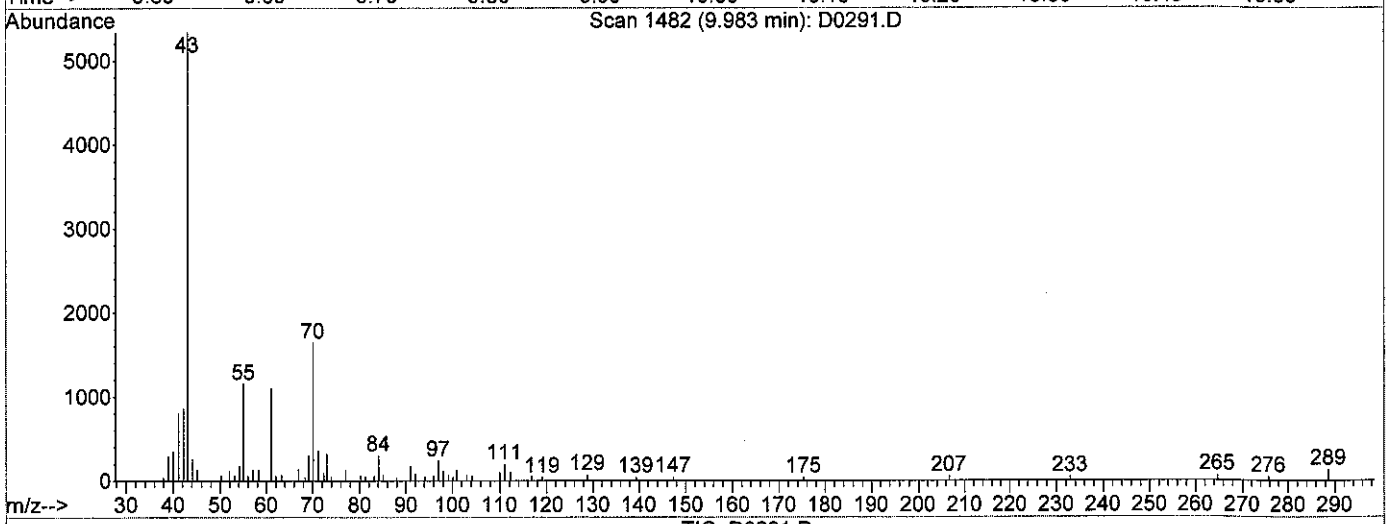
07/15/16

Quantitation Report (Qedit)

Data File : I:\ACQUDATA\MSVOA6\DATA\071416\D0291.D Vial: 15
Acq On : 14 Jul 2016 2:34 pm Operator: D.LIPANI
Sample : STD #3 - 2.0 PPB Inst : MS#6
Misc : 8260C / 624 ICAL GCMS#6 Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Jul 15 11:28 2016 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA6\METHODS\W071416.M (RTE Integrator)
Title : 8260C / 624 WATERS
Last Update : Fri Jul 15 11:17:32 2016
Response via : Multiple Level Calibration





TIC: D0291.D

(85) Amyl Acetate

9.98min 2.03ug/L m

response 7698

Ion	Exp%	Act%
43.00	100	100
55.00	24.50	21.51
61.00	26.30	20.50
70.00	42.00	30.68

Manual Integration:

After

Split Peak.

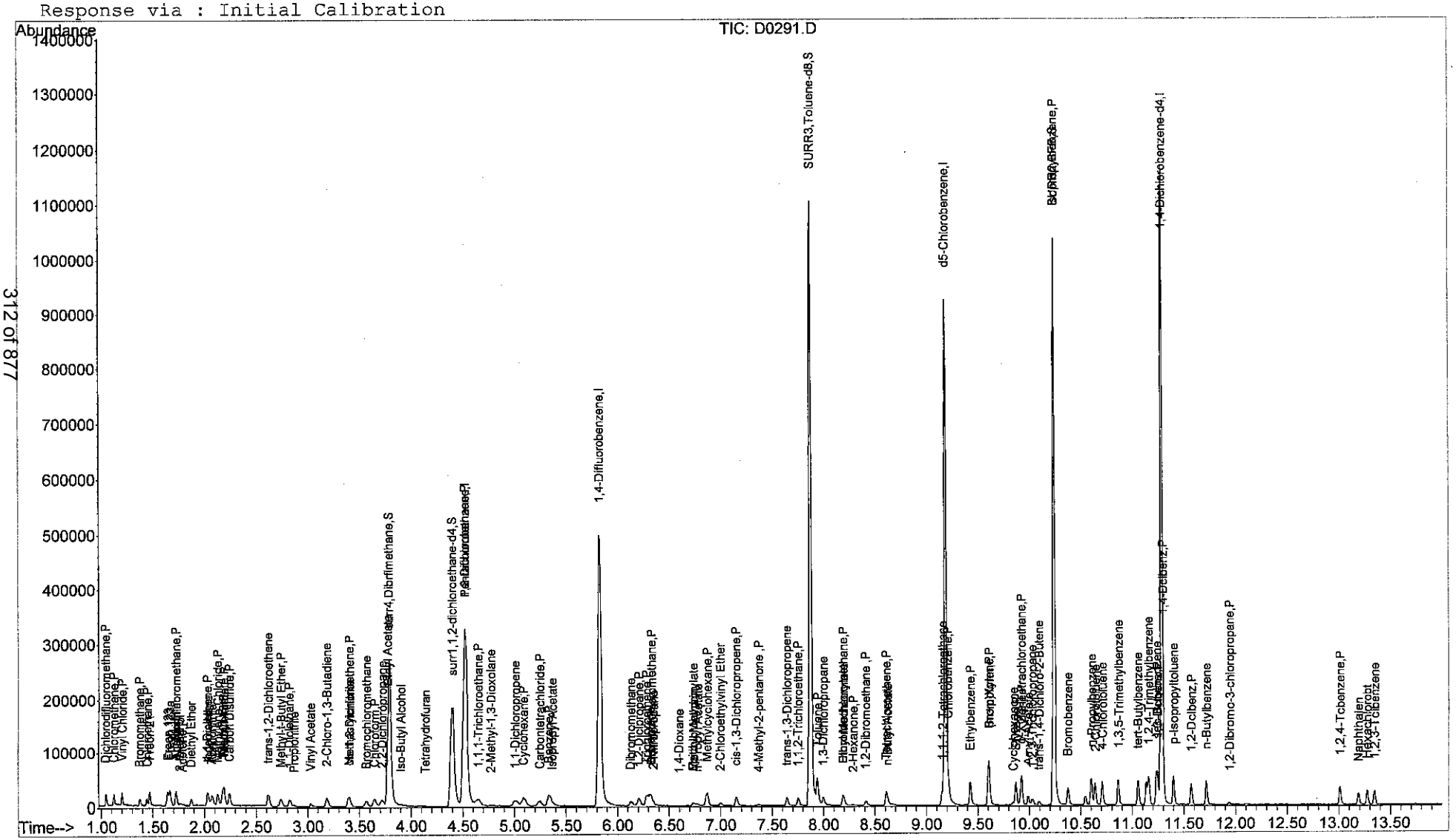
07/15/16 JL

FD 7/18/16

Quantitation Report

Data File : I:\ACQUDATA\MSVOA6\DATA\071416\D0291.D Vial: 15
Acq On : 14 Jul 2016 2:34 pm Operator: D.LIPANI
Sample : STD #3 - 2.0 PPB Inst : MS#6
Misc : 8260C / 624 ICAL GCMS#6 Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Jul 15 11:29 2016 Quant Results File: W071416.RES

Method : I:\ACQUDATA\MSVOA6\METHODS\W071416.M (RTE Integrator)
Title : 8260C / 624 WATERS
Last Update : Fri Jul 15 11:17:32 2016
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : I:\ACQUDATA\MSVOA6\DATA\071416\D0292.D Vial: 16
Acq On : 14 Jul 2016 3:12 pm Operator: D.LIPANI
Sample : STD #4 - 5.0 PPB Inst : MS#6
Misc : 8260C / 624 ICAL GCMS#6 Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Jul 15 11:48 2016 Quant Results File: W071416.RES

Quant Method : I:\ACQUDATA\M...\W071416.M (RTE Integrator)
Title : 8260C / 624 WATERS
Last Update : Fri Jul 15 11:29:30 2016
Response via : Initial Calibration
DataAcq Meth : W071416

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.52	168	350820	50.00	ug/L	0.00
40) 1,4-Difluorobenzene	5.82	114	498551	50.00	ug/L	0.00
69) d5-Chlorobenzene	9.18	117	437630	50.00	ug/L	0.00
89) 1,4-Dichlorobenzene-d4	11.28	152	247991	50.00	ug/L	0.00
System Monitoring Compounds						
41) surr4,Dibrflmethane	3.79	113	224608	69.96	ug/L	0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 139.92%#			
43) surr1,1,2-dichloroethane-d	4.40	65	205233	71.57	ug/L	0.00
Spiked Amount 50.000	Range 65 - 130		Recovery = 143.14%#			
67) SURR3,Toluene-d8	7.87	98	744275	74.21	ug/L	0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 148.42%#			
88) SURR2,BFB	10.23	95	288338	68.58	ug/L	0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 137.16%#			

Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.04	85	26554	5.28	ug/L	94
3) Chloromethane	1.12	50	25046	4.87	ug/L	92
4) Vinyl Chloride	1.20	62	29259	5.08	ug/L	97
5) Bromomethane	1.37	94	11752	4.65	ug/L	95
6) Chloroethane	1.44	64	14130	4.91	ug/L	96
7) Freon 21	1.47	67	34673	5.43	ug/L	90
8) Freon 123	1.64	83	25963	4.86	ug/L	95
9) Freon 123a	1.66	67	21021	4.85	ug/L	95
10) Acrolein	1.72	56	8174	24.88	ug/L	94
11) Trichlorofluoromethane	1.73	101	26210	4.95	ug/L	98
12) Acetonitrile	1.73	41	5554	23.82	ug/L	88
13) 2-Propanol	1.77	45	9613	100.82	ug/L	93
14) Acetone	1.79	43	2331	4.75	ug/L	93
15) Diethyl Ether	1.87	59	11382	4.91	ug/L	79
16) 1,1-Diclethene	2.03	96	16651	4.90	ug/L	96
17) Iodomethane	2.04	142	15379	4.52	ug/L	99
18) TBA	2.06	59	14758	99.83	ug/L	99
19) Acrylonitrile	2.07	53	19483	26.22	ug/L	96
20) Methylene Chloride	2.13	84	18931	5.13	ug/L	96
21) Freon 113	2.17	101	17369	4.89	ug/L #	81
22) Methyl Acetate	2.18	43	8310	5.37	ug/L	94
23) Allyl Chloride	2.19	76	9756	4.87	ug/L	100
24) Carbon Disulfide	2.24	76	58071	5.12	ug/L	94
25) trans-1,2-Dichloroethene	2.62	96	17221	4.80	ug/L	96
26) Methyl-t-Butyl Ether	2.74	73	33667	5.04	ug/L	93
27) 1,1-Diclethane	2.82	63	28337	5.07	ug/L	97
28) Propionitrile	2.86	54	5899	25.23	ug/L	97
29) Vinyl Acetate	3.02	43	24198	5.08	ug/L	98
30) 2-Chloro-1,3-Butadiene	3.18	53	24523	4.91	ug/L	97
31) 2-Butanone	3.37	43	3846m	4.82	ug/L	
32) Methacrylonitrile	3.39	67	3869	4.88	ug/L	89
33) cis-1,2-Dichloroethene	3.40	96	18537	5.06	ug/L #	76
34) Bromochloromethane	3.56	128	7812	4.94	ug/L	93
35) Chloroform	3.65	83	31258	5.21	ug/L	85
36) 2,2-Dichloropropane	3.71	77	24285	4.96	ug/L	95

DL 07/15/16

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

Quantitation Report (QT Reviewed)

Data File : I:\ACQUDATA\MSVOA6\DATA\071416\D0292.D Vial: 16
Acq On : 14 Jul 2016 3:12 pm Operator: D.LIPANI
Sample : STD #4 - 5.0 PPB Inst : MS#6
Misc : 8260C / 624 ICAL GCMS#6 Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Jul 15 11:48 2016 Quant Results File: W071416.RES

Quant Method : I:\ACQUDATA\M...\W071416.M (RTE Integrator)
Title : 8260C / 624 WATERS
Last Update : Fri Jul 15 11:29:30 2016
Response via : Initial Calibration
DataAcq Meth : W071416

	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
37)	Ethyl Acetate	3.76	43	15213	9.31 ug/L		91
38)	Tetrahydrofuran	4.07	42	2744m	5.20 ug/L		
39)	1,1,1-Trichloroethane	4.66	97	24035	5.00 ug/L		94
42)	Iso-Butyl Alcohol	3.90	43	6973m	106.48 ug/L		
44)	1,2-Dichloroethane	4.52	64	5417	4.95 ug/L	#	87
45)	2-Methyl-1,3-Dioxolane	4.77	73	4788	23.87 ug/L		86
46)	1,1-Dichloropropene	5.00	75	20861	4.86 ug/L		91
47)	Cyclohexane	5.09	56	25811	5.10 ug/L		96
48)	Carbontetrachloride	5.24	119	19850	4.84 ug/L		94
49)	Benzene	5.34	78	64997	5.20 ug/L		98
50)	Isopropyl Acetate	5.36	43	16113m	4.54 ug/L		
51)	Dibromomethane	6.13	93	8124	5.25 ug/L		91
52)	1,2-Diclpropane	6.21	63	16077	5.01 ug/L		94
53)	n-Heptane	6.30	43	20758	5.49 ug/L		96
54)	Trichloroethene	6.27	130	16565	5.02 ug/L		97
55)	Bromodichloromethane	6.32	83	19962	4.90 ug/L		98
56)	2-Nitropropane	6.35	41	3775	10.07 ug/L		91
57)	1,4-Dioxane	6.59	88	1627m	113.46 ug/L		
58)	Epichlorohydrin	6.72	57	3555m	22.00 ug/L		
59)	Methyl Methacrylate	6.73	69	5863	4.56 ug/L		95
60)	n-Propyl Acetate	6.75	43	10444	4.33 ug/L		87
61)	Methylcyclohexane	6.86	55	18221	4.97 ug/L		94
62)	2-Chloroethylvinyl Ether	7.00	63	7407	5.14 ug/L		95
63)	cis-1,3-Dichloropropene	7.15	75	24925	5.48 ug/L		97
64)	4-Methyl-2-pentanone	7.35	43	6490	4.12 ug/L	#	88
65)	trans-1,3-Dichloropropene	7.64	75	19044	5.26 ug/L		97
66)	1,1,2-Trichloroethane	7.75	97	9891	4.67 ug/L		92
68)	Toluene	7.94	91	66500	5.15 ug/L		96
70)	1,3-Dichloropropane	8.00	76	17470	5.04 ug/L		93
71)	Ethyl Methacrylate	8.18	69	12422	4.75 ug/L		96
72)	Dibromochloromethane	8.19	129	13802	5.01 ug/L		99
73)	2-Hexanone	8.26	43	5726m	4.90 ug/L		
74)	1,2-Dibromoethane	8.41	107	11263	4.91 ug/L		100
75)	n-Butyl Acetate	8.62	43	15103m	5.24 ug/L		
76)	Tetrachloroethene	8.61	164	14565	5.07 ug/L		98
77)	1,1,1,2-Tetrachloroethane	9.15	131	13828	4.72 ug/L		90
78)	Chlorobenzene	9.21	112	42624	5.05 ug/L		90
79)	Ethylbenzene	9.42	106	21568	4.71 ug/L	#	79
80)	Bromoform	9.60	173	7270	4.76 ug/L		96
81)	(m+p)Xylene	9.61	106	55962	10.38 ug/L		94
82)	o-Xylene	9.92	106	26450	5.06 ug/L		94
83)	Cyclohexanone	9.83	55	4720	95.04 ug/L	#	77
84)	Styrene	9.87	104	42974	5.18 ug/L		94
85)	Amyl Acetate	9.98	43	18742	4.81 ug/L		90
86)	trans-1,4-Dichloro-2-Buten	10.09	75	3938m	4.53 ug/L		
87)	Isopropylbenzene	10.24	105	70279	5.11 ug/L		95
90)	1,1,2,2-Tetrachloroethane	9.91	83	12742	5.06 ug/L		99
91)	1,2,3-Trichloropropane	10.03	75	8518	4.94 ug/L		98
92)	Bromobenzene	10.37	156	19667	4.92 ug/L		100
93)	n-Propylbenzene	10.60	91	82996	5.37 ug/L		95

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

Quantitation Report (QT Reviewed)

Data File : I:\ACQUDATA\MSVOA6\DATA\071416\D0292.D Vial: 16
Acq On : 14 Jul 2016 3:12 pm Operator: D.LIPANI
Sample : STD #4 - 5.0 PPB Inst : MS#6
Misc : 8260C / 624 ICAL GCMS#6 Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Jul 15 11:48 2016 Quant Results File: W071416.RES

Quant Method : I:\ACQUDATA\M...\W071416.M (RTE Integrator)
Title : 8260C / 624 WATERS
Last Update : Fri Jul 15 11:29:30 2016
Response via : Initial Calibration
DataAcq Meth : W071416

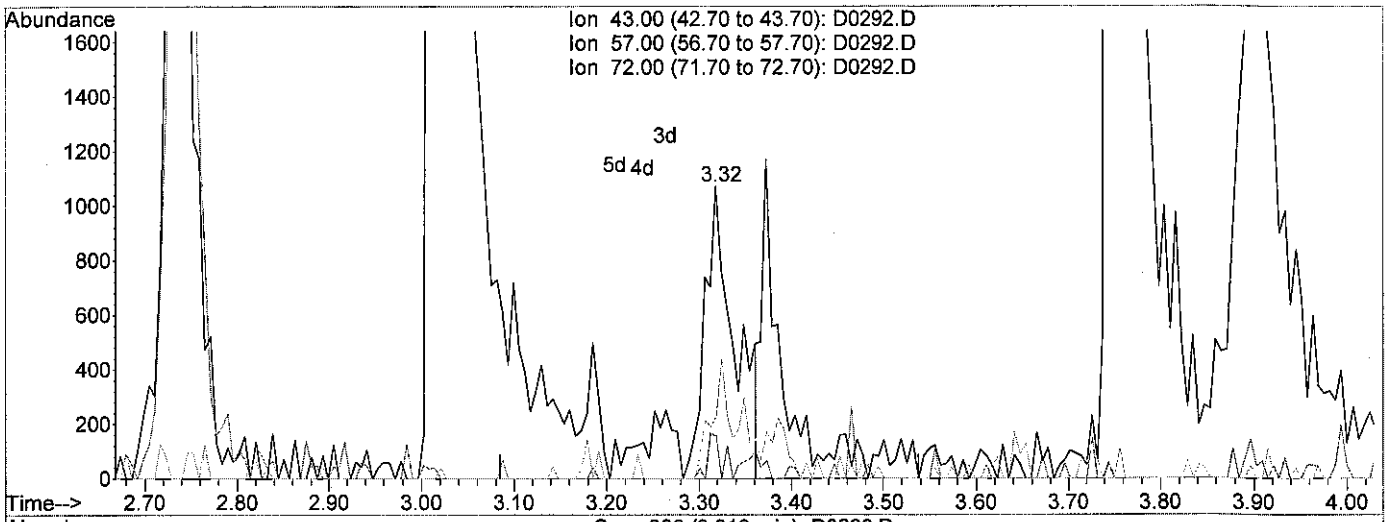
	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
94)	2-Chlorotoluene	10.63	91	48305	5.09 ug/L	92
95)	4-Chlorotoluene	10.71	91	51978	5.23 ug/L	96
96)	1,3,5-Trimethylbenzene	10.86	105	55112	5.07 ug/L	97
97)	tert-Butylbenzene	11.05	119	45542	5.06 ug/L	98
98)	1,2,4-Trimethylbenzene	11.16	105	58398	5.19 ug/L	94
99)	sec-Butylbenzene	11.23	105	68484	5.24 ug/L	97
100)	1,3-Dclbenz	11.24	146	37613	5.23 ug/L	95
101)	1,4-Dclbenz	11.30	146	38281	5.22 ug/L	99
102)	p-Isopropyltoluene	11.39	119	59831	5.30 ug/L	97
103)	1,2-Dclbenz	11.57	146	34180	5.15 ug/L	98
104)	n-Butylbenzene	11.72	91	54068	5.24 ug/L	96
105)	1,2-Dibromo-3-chloropropan	11.94	75	1997	5.13 ug/L	97
106)	Nitrobenzene	12.12	77	610m	8.98 ug/L	
107)	1,2,4-Tcbenzene	13.01	180	20188	4.70 ug/L	98
108)	Naphthalen	13.19	128	35596	5.15 ug/L	96
109)	Hexachlorobt	13.27	225	11158	5.21 ug/L	99
110)	1,2,3-Tclbenzene	13.34	180	16724	4.98 ug/L	99

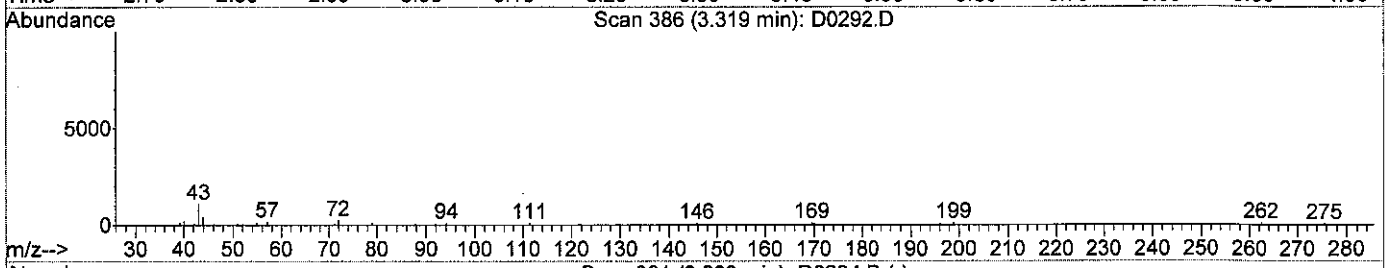
(#) = qualifier out of range (m) = manual integration

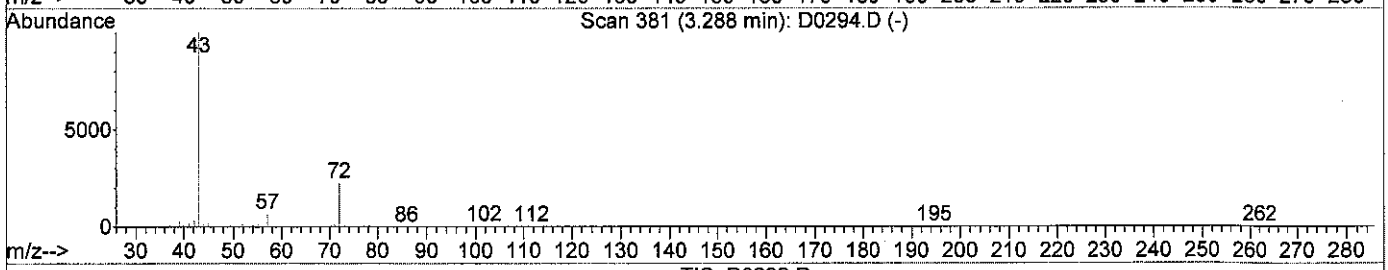
Quantitation Report (Qedit)

Data File : I:\ACQUDATA\MSVOA6\DATA\071416\D0292.D Vial: 16
Acq On : 14 Jul 2016 3:12 pm Operator: D.LIPANI
Sample : STD #4 - 5.0 PPB Inst : MS#6
Misc : 8260C / 624 ICAL GCMS#6 Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Jul 15 11:40 2016 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA6\METHODS\W071416.M (RTE Integrator)
Title : 8260C / 624 WATERS
Last Update : Fri Jul 15 11:29:30 2016
Response via : Single Level Calibration







TIC: D0292.D

(31) 2-Butanone (P)

3.32min 3.03ug/L

response 2417

Ion	Exp%	Act%
43.00	100	100
57.00	6.60	14.66
72.00	22.20	21.20
0.00	0.00	0.00

Manual Integration:

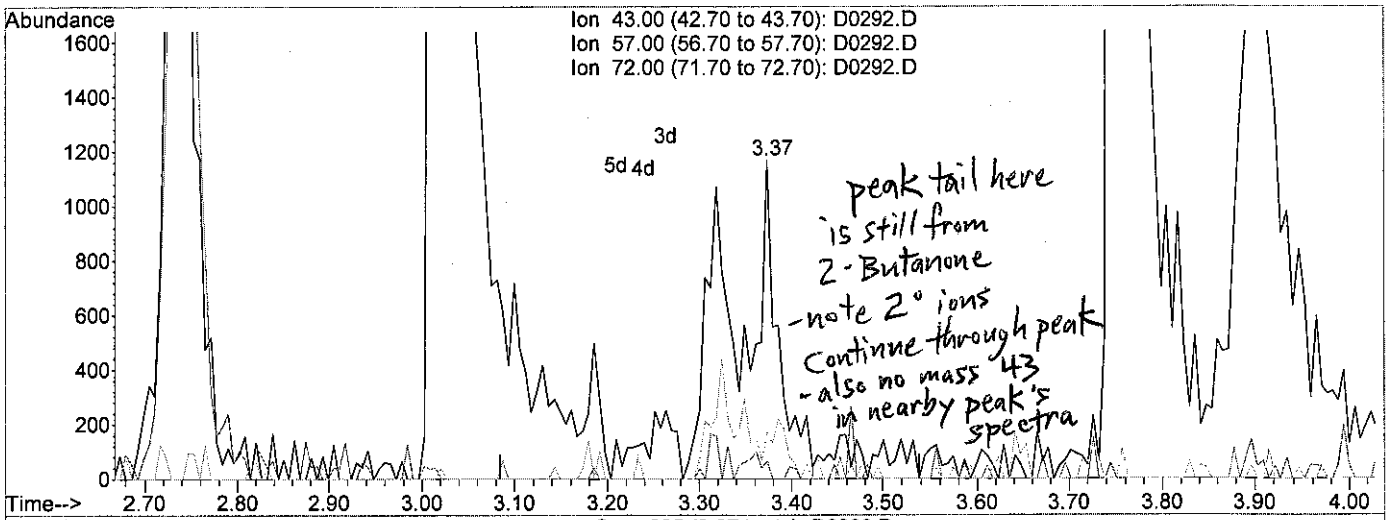
Before

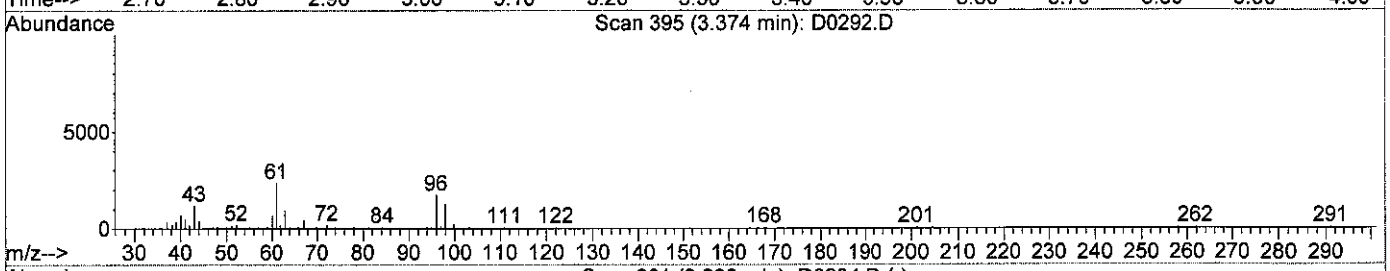
07/15/16

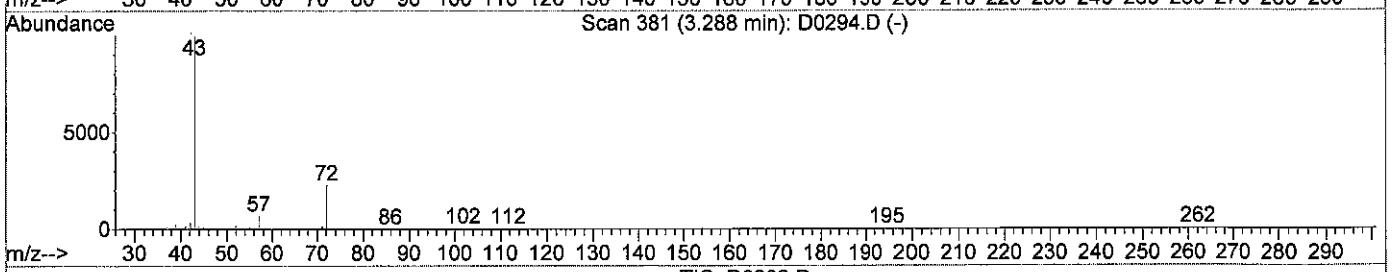
Quantitation Report (Qedit)

Data File : I:\ACQUDATA\MSVOA6\DATA\071416\D0292.D Vial: 16
Acq On : 14 Jul 2016 3:12 pm Operator: D.LIPANI
Sample : STD #4 - 5.0 PPB Inst : MS#6
Misc : 8260C / 624 ICAL GCMS#6 Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Jul 15 11:41 2016 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA6\METHODS\W071416.M (RTE Integrator)
Title : 8260C / 624 WATERS
Last Update : Fri Jul 15 11:29:30 2016
Response via : Single Level Calibration







TIC: D0292.D

(31) 2-Butanone (P)

3.37min 4.82ug/L m

response 3846

Ion	Exp%	Act%
43.00	100	100
57.00	6.60	5.65
72.00	22.20	14.71
0.00	0.00	0.00

Manual Integration:

After

Split Peak.

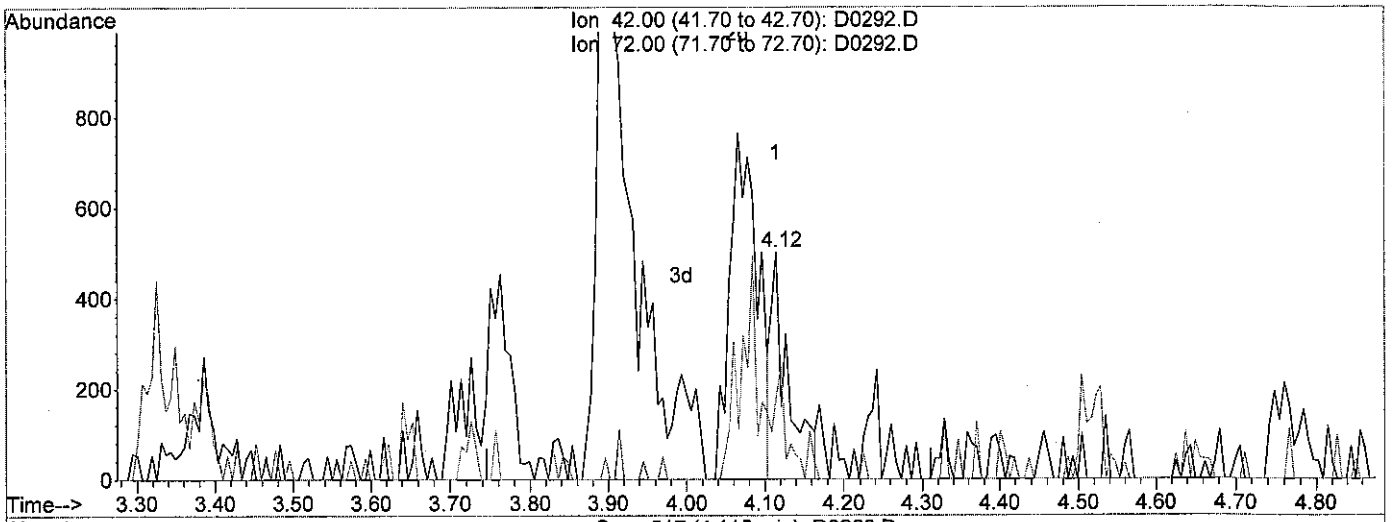
07/15/16 DL

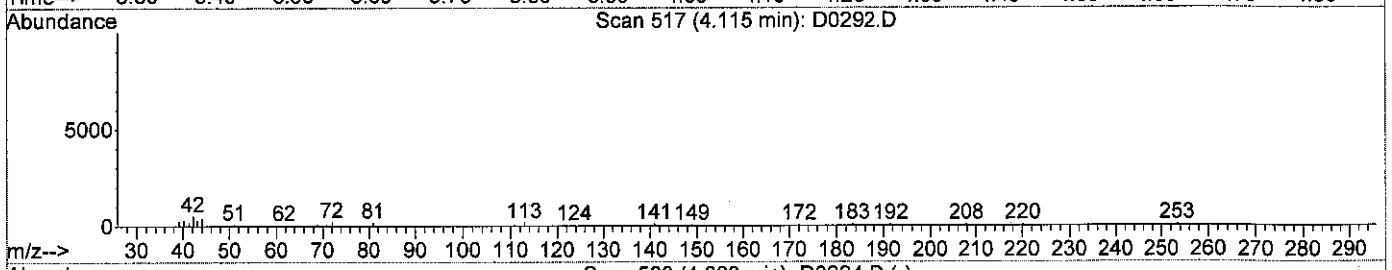
KW 7/18/16

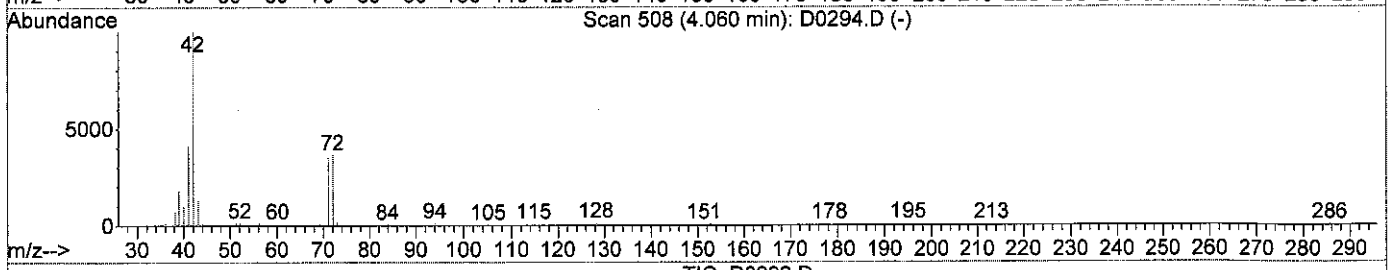
Quantitation Report (Qedit)

Data File : I:\ACQUDATA\MSVOA6\DATA\071416\D0292.D Vial: 16
Acq On : 14 Jul 2016 3:12 pm Operator: D.LIPANI
Sample : STD #4 - 5.0 PPB Inst : MS#6
Misc : 8260C / 624 ICAL GCMS#6 Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Jul 15 11:41 2016 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA6\METHODS\W071416.M (RTE Integrator)
Title : 8260C / 624 WATERS
Last Update : Fri Jul 15 11:29:30 2016
Response via : Single Level Calibration







TIC: D0292.D

(38) Tetrahydrofuran

4.12min 1.43ug/L

response 754

Ion	Exp%	Act%
42.00	100	100
72.00	35.70	37.05
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

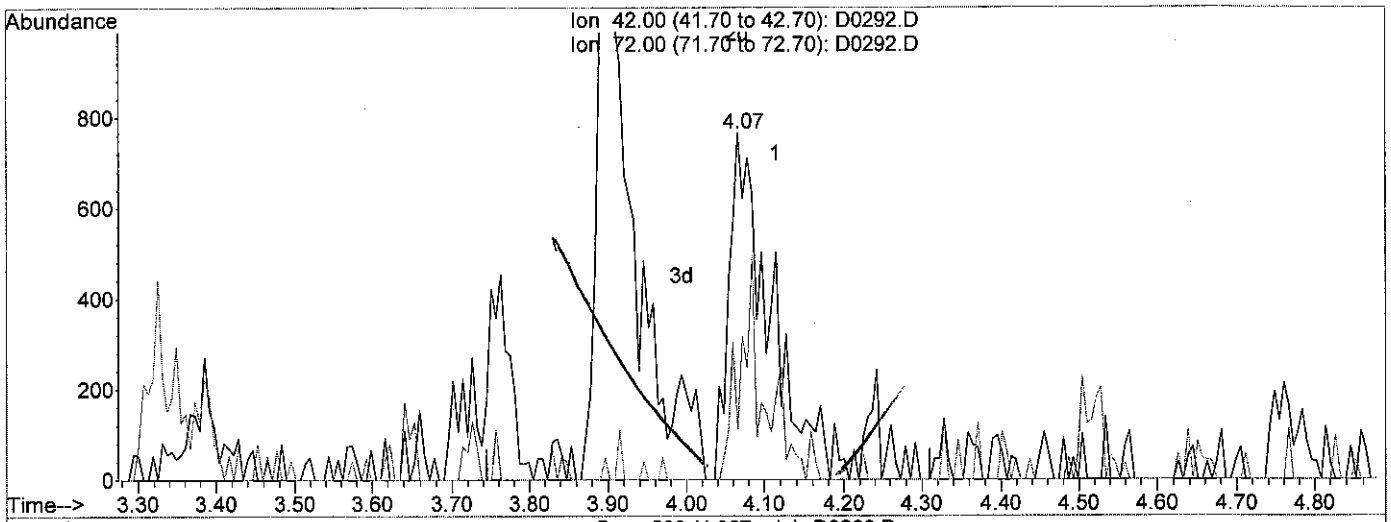
Before

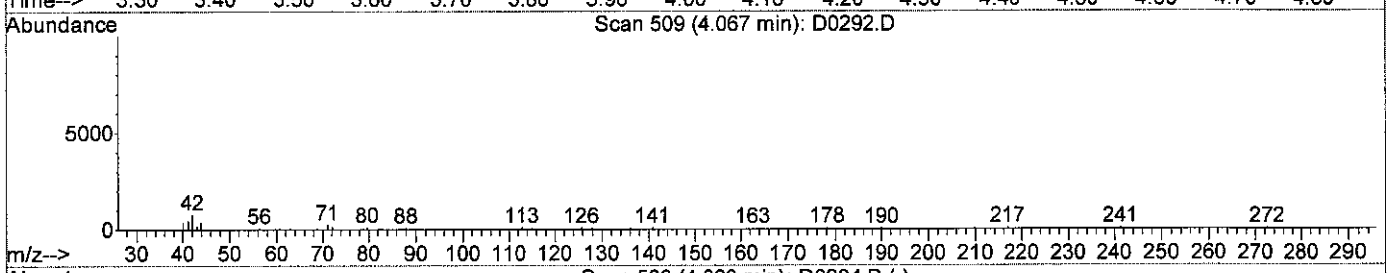
07/15/16

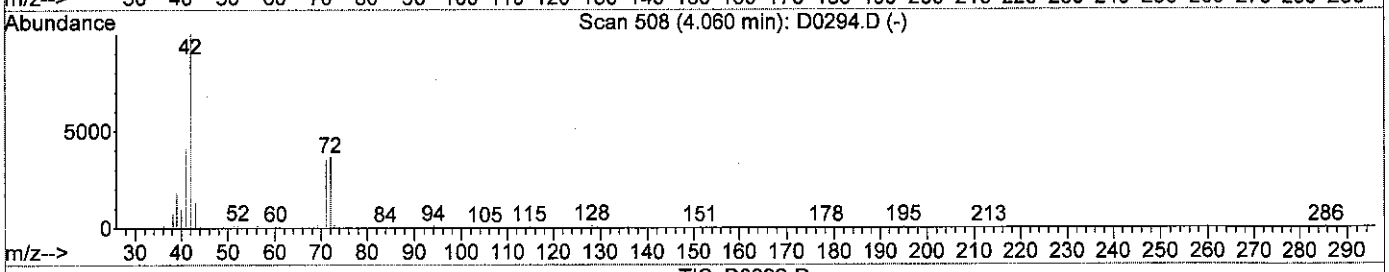
Quantitation Report (Qedit)

Data File : I:\ACQUDATA\MSVOA6\DATA\071416\D0292.D Vial: 16
Acq On : 14 Jul 2016 3:12 pm Operator: D.LIPANI
Sample : STD #4 - 5.0 PPB Inst : MS#6
Misc : 8260C / 624 ICAL GCMS#6 Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Jul 15 11:42 2016 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA6\METHODS\W071416.M (RTE Integrator)
Title : 8260C / 624 WATERS
Last Update : Fri Jul 15 11:29:30 2016
Response via : Single Level Calibration







TIC: D0292.D

(38) Tetrahydrofuran

4.07min 5.20ug/L m

response 2744

Ion	Exp%	Act%
42.00	100	100
72.00	35.70	14.51#
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

Split Peak.

07/15/16 DL

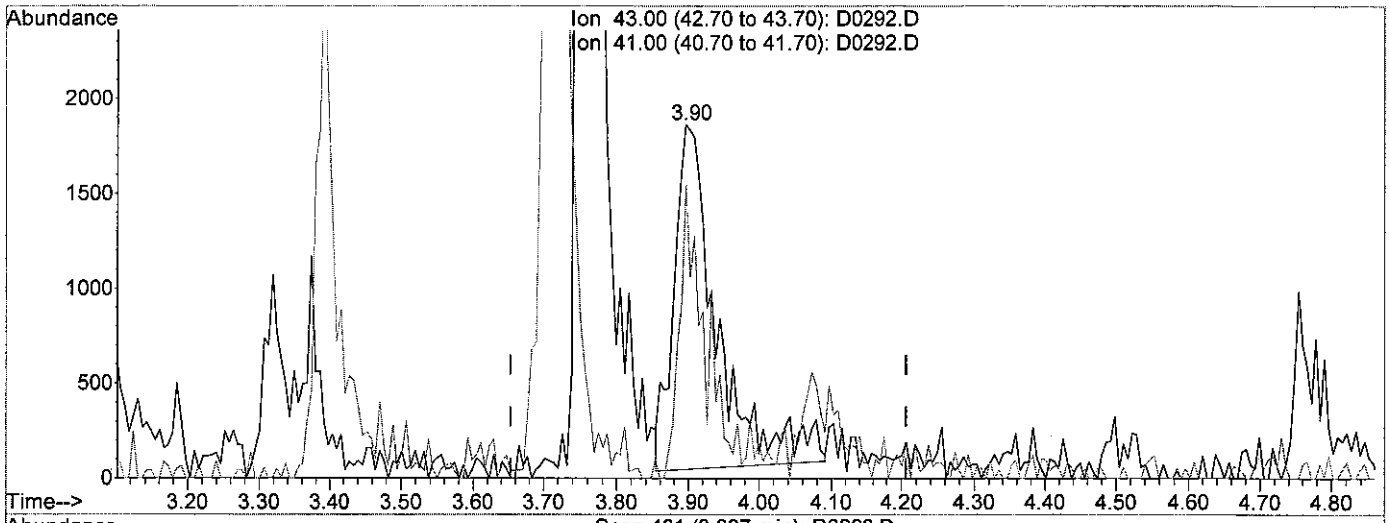
FU 7/13/16

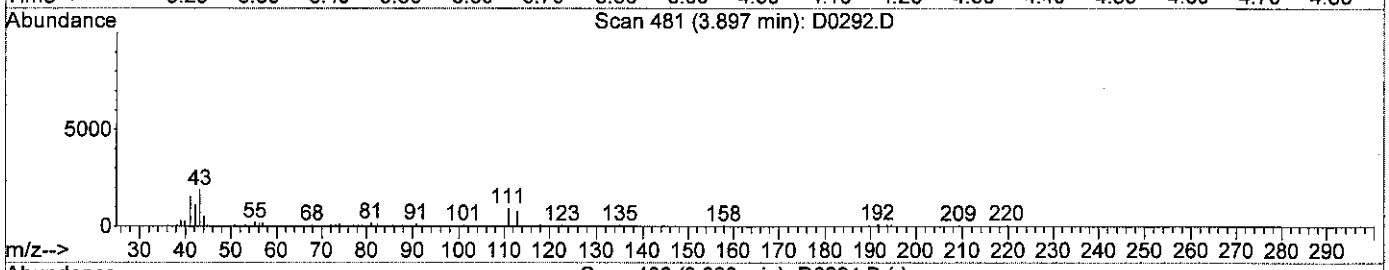
D0292.D W071416.M Fri Jul 15 11:42:27 2016

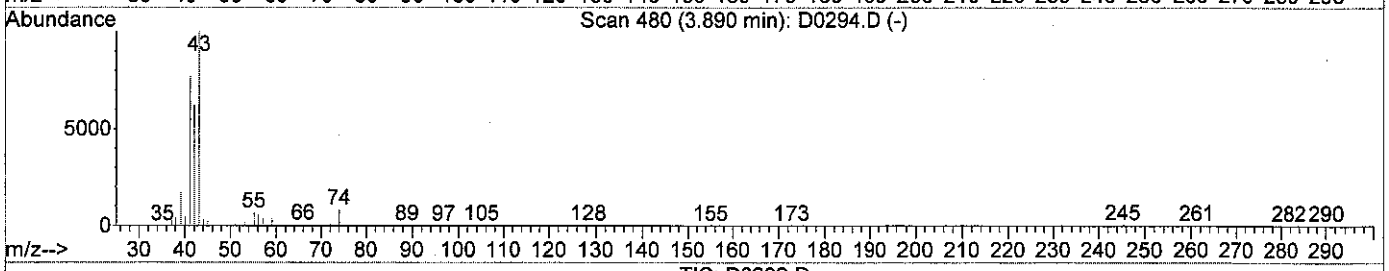
Quantitation Report (Qedit)

Data File : I:\ACQUDATA\MSVOA6\DATA\071416\D0292.D Vial: 16
Acq On : 14 Jul 2016 3:12 pm Operator: D.LIPANI
Sample : STD #4 - 5.0 PPB Inst : MS#6
Misc : 8260C / 624 ICAL GCMS#6 Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Jul 15 11:42 2016 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA6\METHODS\W071416.M (RTE Integrator)
Title : 8260C / 624 WATERS
Last Update : Fri Jul 15 11:29:30 2016
Response via : Single Level Calibration







TIC: D0292.D

(42) Iso-Butyl Alcohol

3.90min 117.77ug/L

response 7712

Ion	Exp%	Act%
43.00	100	100
41.00	71.70	82.82
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

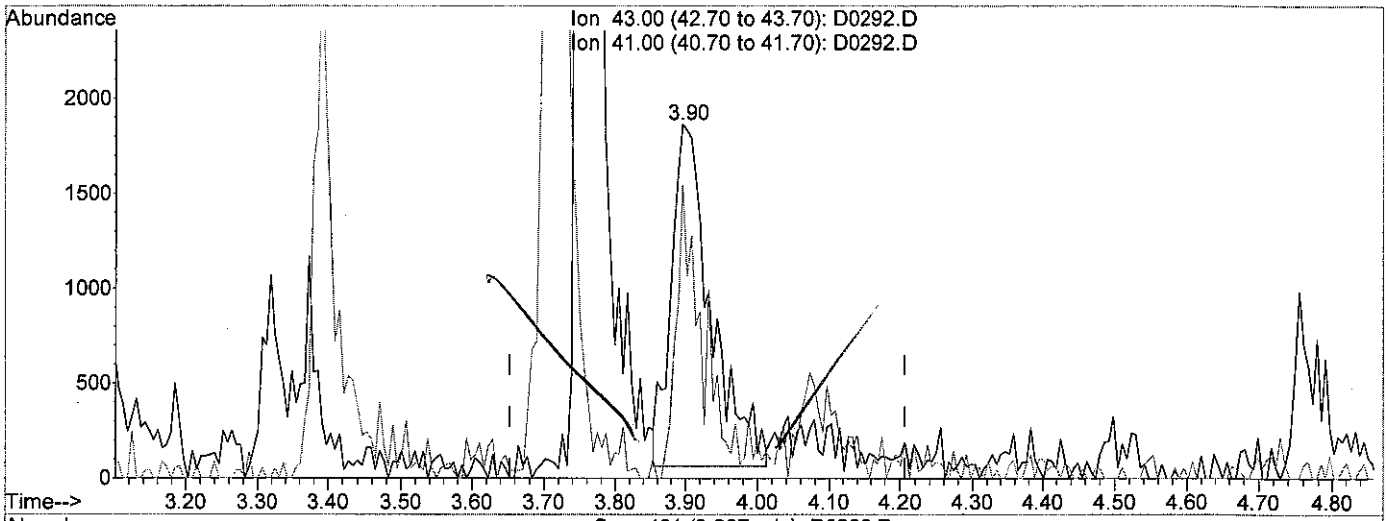
Before

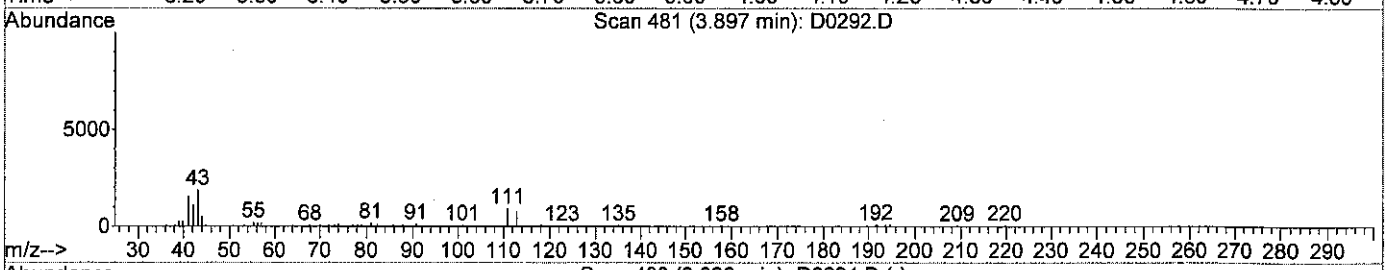
07/15/16

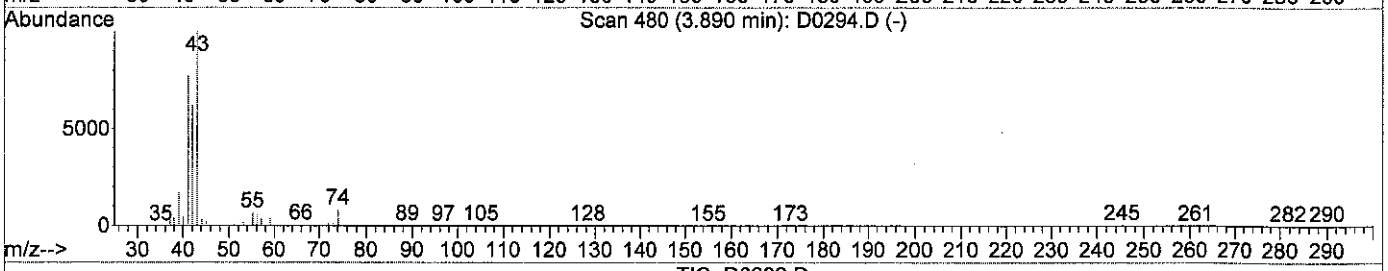
Quantitation Report (Qedit)

Data File : I:\ACQUDATA\MSVOA6\DATA\071416\D0292.D Vial: 16
Acq On : 14 Jul 2016 3:12 pm Operator: D.LIPANI
Sample : STD #4 - 5.0 PPB Inst : MS#6
Misc : 8260C / 624 ICAL GCMS#6 Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Jul 15 11:43 2016 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA6\METHODS\W071416.M (RTE Integrator)
Title : 8260C / 624 WATERS
Last Update : Fri Jul 15 11:29:30 2016
Response via : Single Level Calibration







TIC: D0292.D

(42) Iso-Butyl Alcohol

3.90min 106.48ug/L m

response 6973

Ion	Exp%	Act%
43.00	100	100
41.00	71.70	82.82
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

Poor integration.

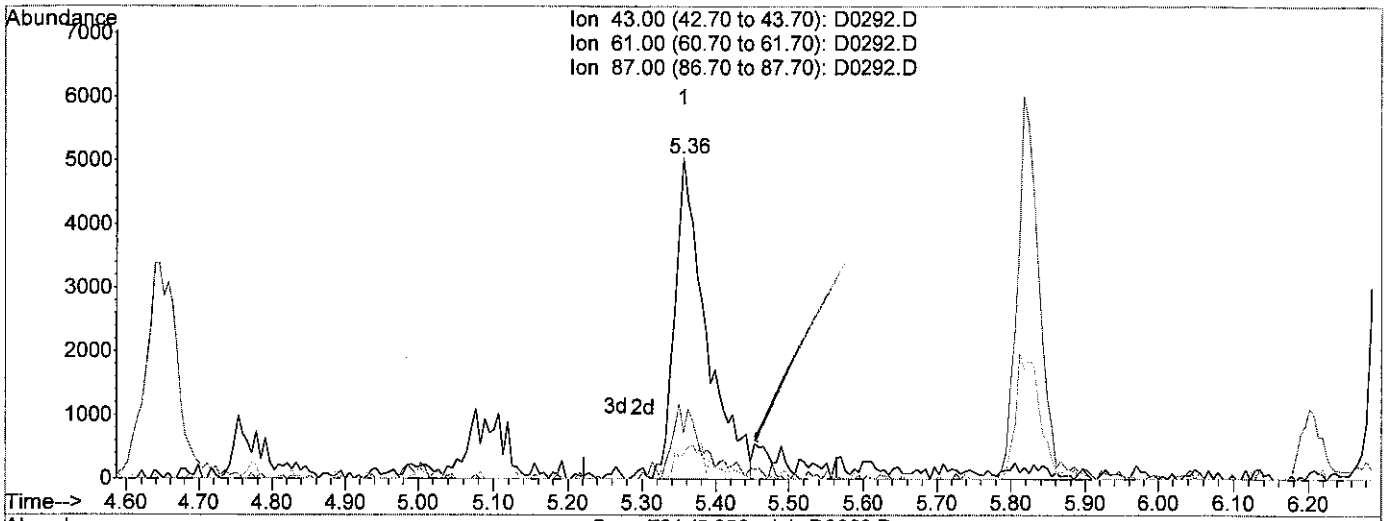
07/15/16 DL

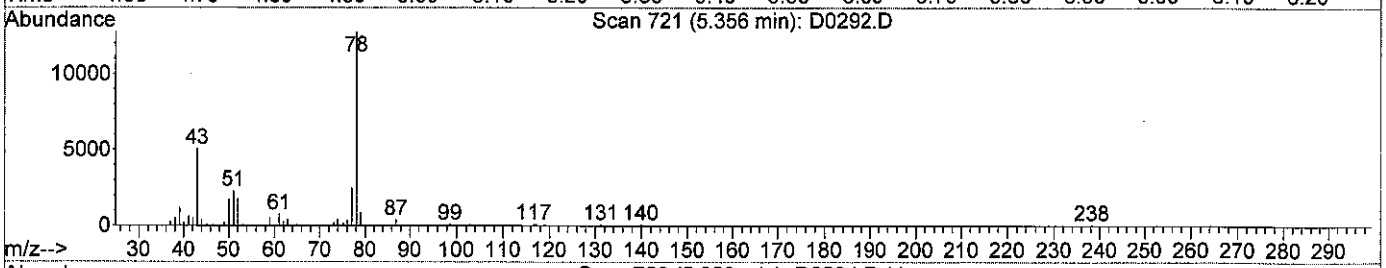
FW 7/18/16

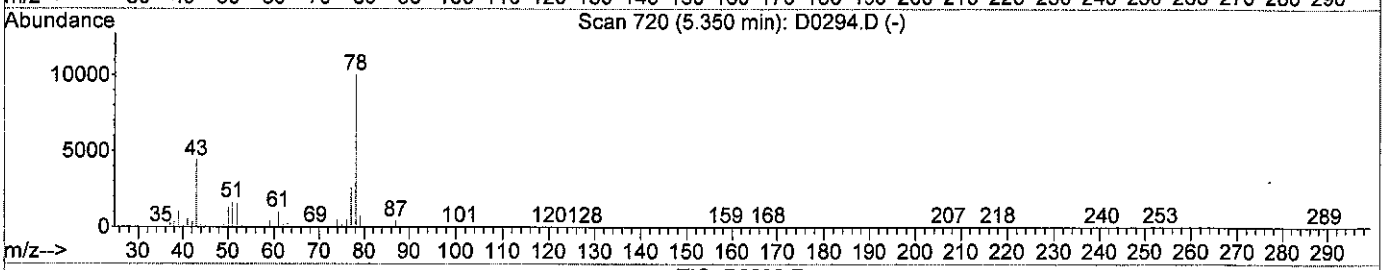
Quantitation Report (Qedit)

Data File : I:\ACQUDATA\MSVOA6\DATA\071416\D0292.D Vial: 16
Acq On : 14 Jul 2016 3:12 pm Operator: D.LIPANI
Sample : STD #4 - 5.0 PPB Inst : MS#6
Misc : 8260C / 624 ICAL GCMS#6 Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Jul 15 11:43 2016 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA6\METHODS\W071416.M (RTE Integrator)
Title : 8260C / 624 WATERS
Last Update : Fri Jul 15 11:29:30 2016
Response via : Single Level Calibration







TIC: D0292.D

(50) Isopropyl Acetate

5.36min 4.18ug/L

response 14849

Ion	Exp%	Act%
43.00	100	100
61.00	23.10	14.63
87.00	9.20	7.44
0.00	0.00	0.00

Manual Integration:

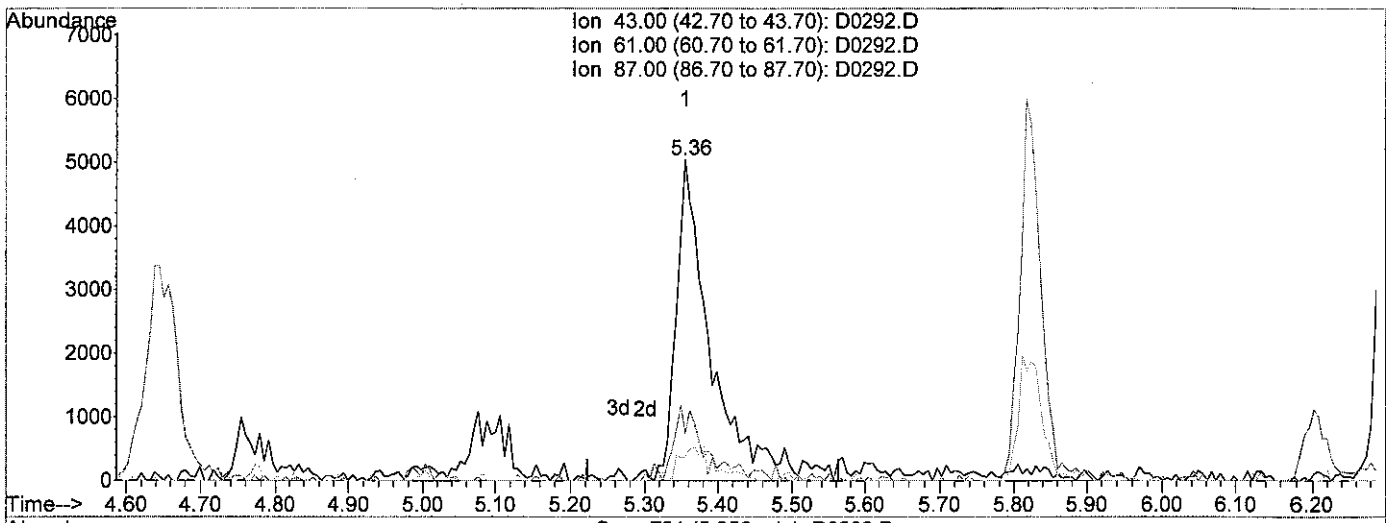
Before

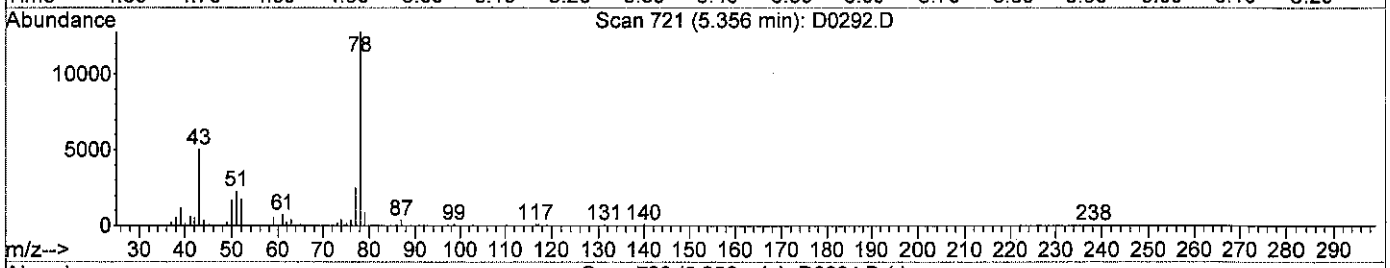
07/15/16

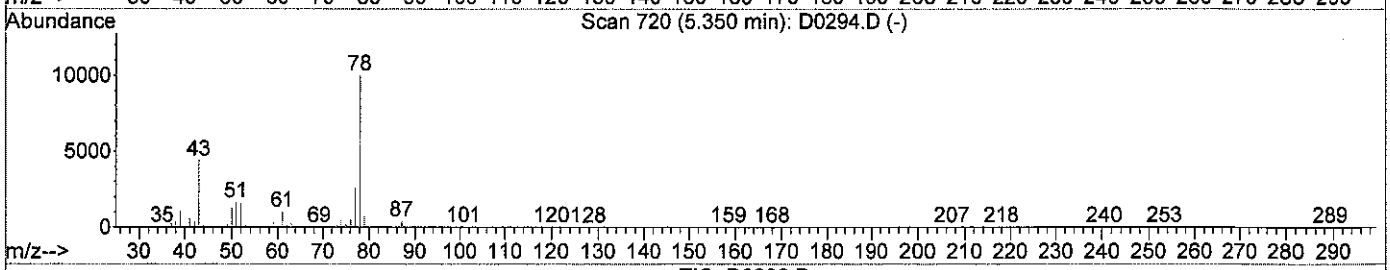
Quantitation Report (Qedit)

Data File : I:\ACQUDATA\MSVOA6\DATA\071416\D0292.D Vial: 16
Acq On : 14 Jul 2016 3:12 pm Operator: D.LIPANI
Sample : STD #4 - 5.0 PPB Inst : MS#6
Misc : 8260C / 624 ICAL GCMS#6 Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Jul 15 11:43 2016 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA6\METHODS\W071416.M (RTE Integrator)
Title : 8260C / 624 WATERS
Last Update : Fri Jul 15 11:29:30 2016
Response via : Single Level Calibration







TIC: D0292.D

(50) Isopropyl Acetate

5.36min 4.54ug/L m

response 16113

Ion	Exp%	Act%
43.00	100	100
61.00	23.10	14.63
87.00	9.20	7.44
0.00	0.00	0.00

Manual Integration:

After

Split Peak.

07/15/16 DL

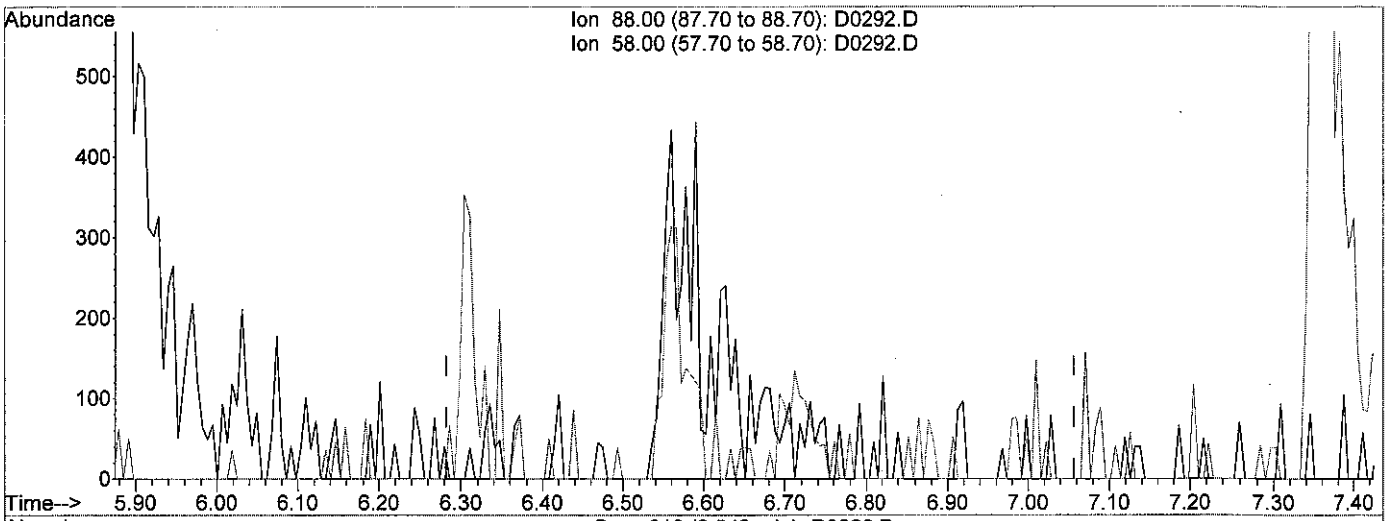
FJ 7/18/16

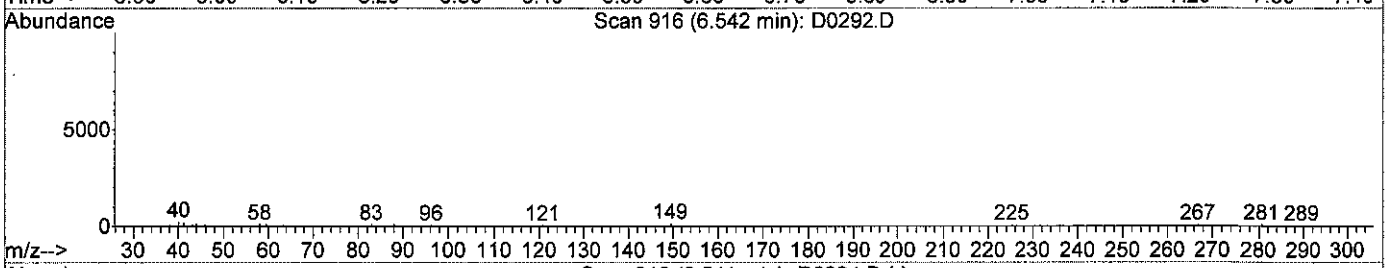
D0292.D W071416.M Fri Jul 15 11:44:02 2016

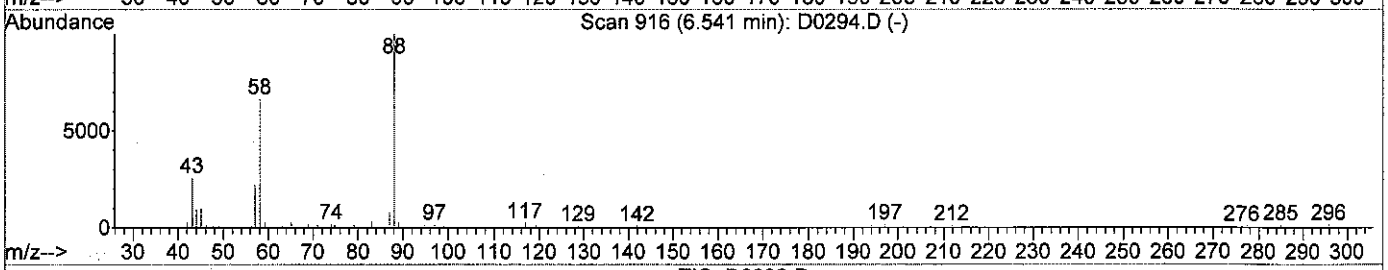
Quantitation Report (Qedit)

Data File : I:\ACQUDATA\MSVOA6\DATA\071416\D0292.D Vial: 16
Acq On : 14 Jul 2016 3:12 pm Operator: D.LIPANI
Sample : STD #4 - 5.0 PPB Inst : MS#6
Misc : 8260C / 624 ICAL GCMS#6 Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Jul 15 11:43 2016 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA6\METHODS\W071416.M (RTE Integrator)
Title : 8260C / 624 WATERS
Last Update : Fri Jul 15 11:29:30 2016
Response via : Single Level Calibration







TIC: D0292.D

(57) 1,4-Dioxane

6.54min 0.00ug/L

response 0

Ion	Exp%	Act%
88.00	100	0.00
58.00	66.60	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

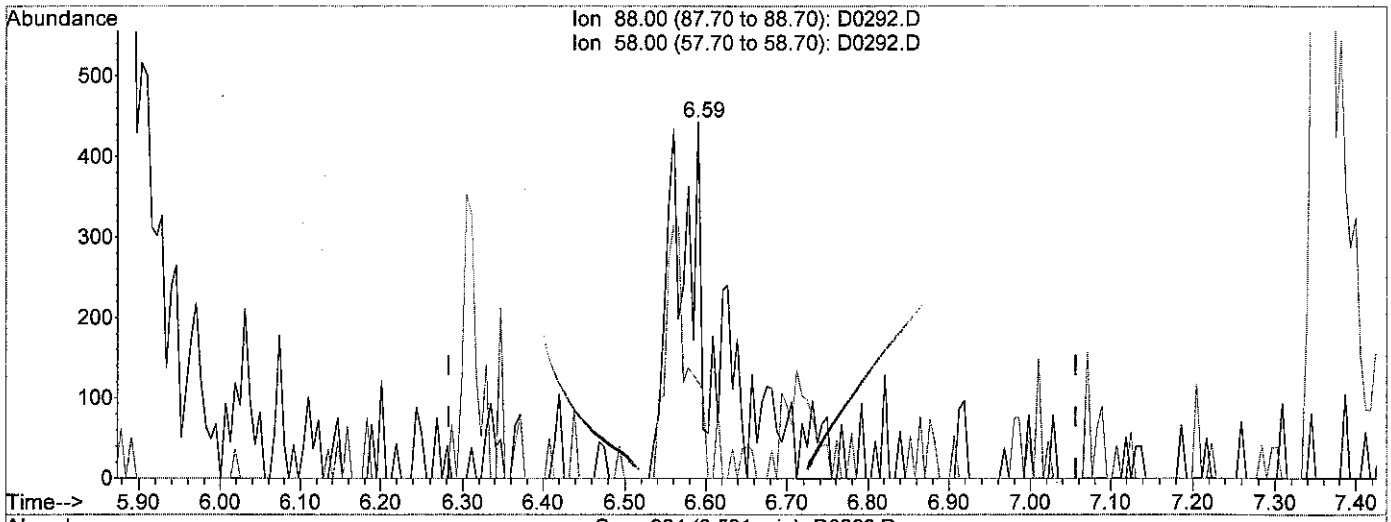
Before

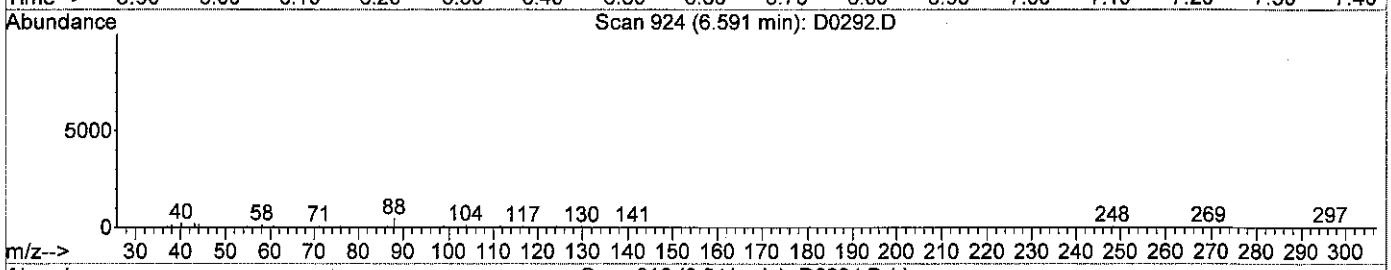
07/15/16

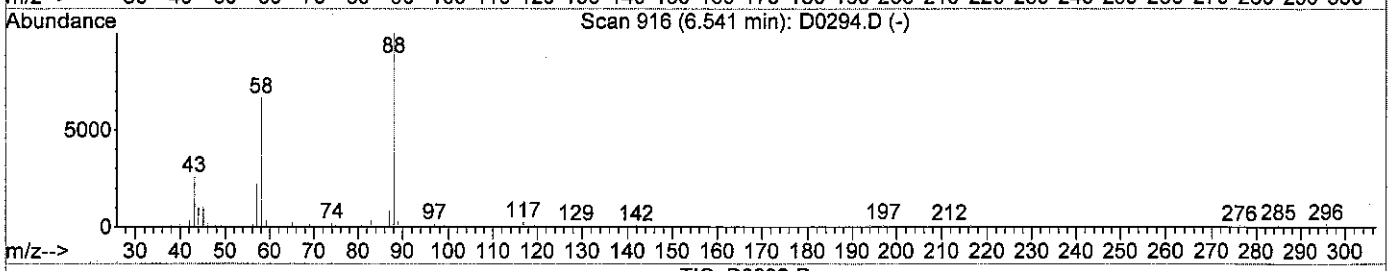
Quantitation Report (Qedit)

Data File : I:\ACQUDATA\MSVOA6\DATA\071416\D0292.D Vial: 16
Acq On : 14 Jul 2016 3:12 pm Operator: D.LIPANI
Sample : STD #4 - 5.0 PPB Inst : MS#6
Misc : 8260C / 624 ICAL GCMS#6 Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Jul 15 11:44 2016 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA6\METHODS\W071416.M (RTE Integrator)
Title : 8260C / 624 WATERS
Last Update : Fri Jul 15 11:29:30 2016
Response via : Single Level Calibration







TIC: D0292.D

(57) 1,4-Dioxane

6.59min 113.46ug/L m

response 1627

Ion	Exp%	Act%
88.00	100	100
58.00	66.60	27.09#
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

Peak not found.

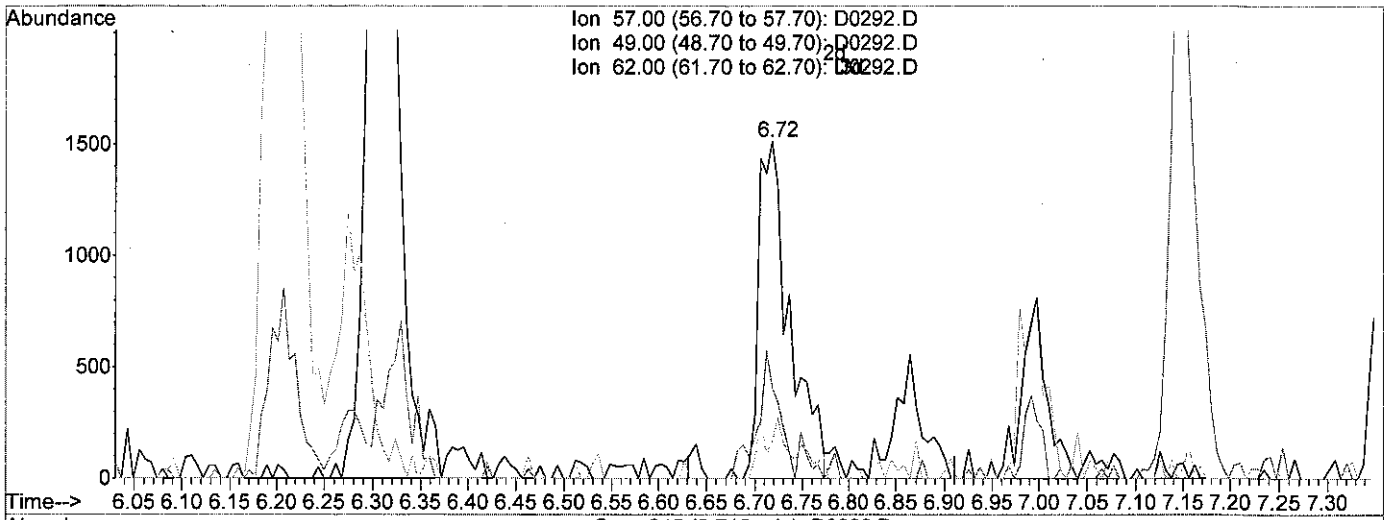
07/15/16 DL

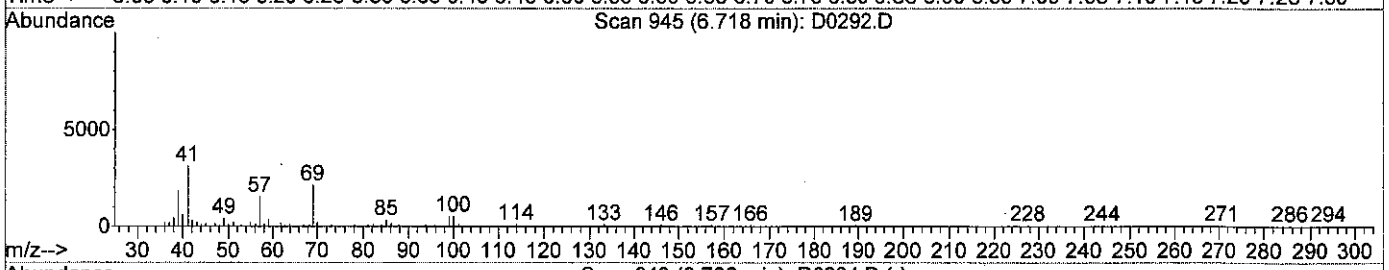
FW 7/18/16

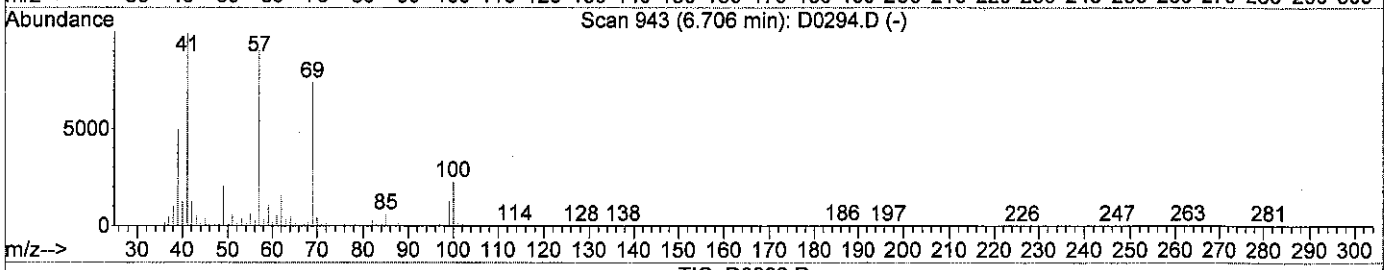
Quantitation Report (Qedit)

Data File : I:\ACQUDATA\MSVOA6\DATA\071416\D0292.D Vial: 16
Acq On : 14 Jul 2016 3:12 pm Operator: D.LIPANI
Sample : STD #4 - 5.0 PPB Inst : MS#6
Misc : 8260C / 624 ICAL GCMS#6 Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Jul 15 11:44 2016 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA6\METHODS\W071416.M (RTE Integrator)
Title : 8260C / 624 WATERS
Last Update : Fri Jul 15 11:29:30 2016
Response via : Multiple Level Calibration







TIC: D0292.D

(58) Epichlorohydrin

6.72min 21.27ug/L

response 3437

Ion	Exp%	Act%
57.00	100	100
49.00	27.70	26.65
62.00	17.00	10.91
0.00	0.00	0.00

Manual Integration:

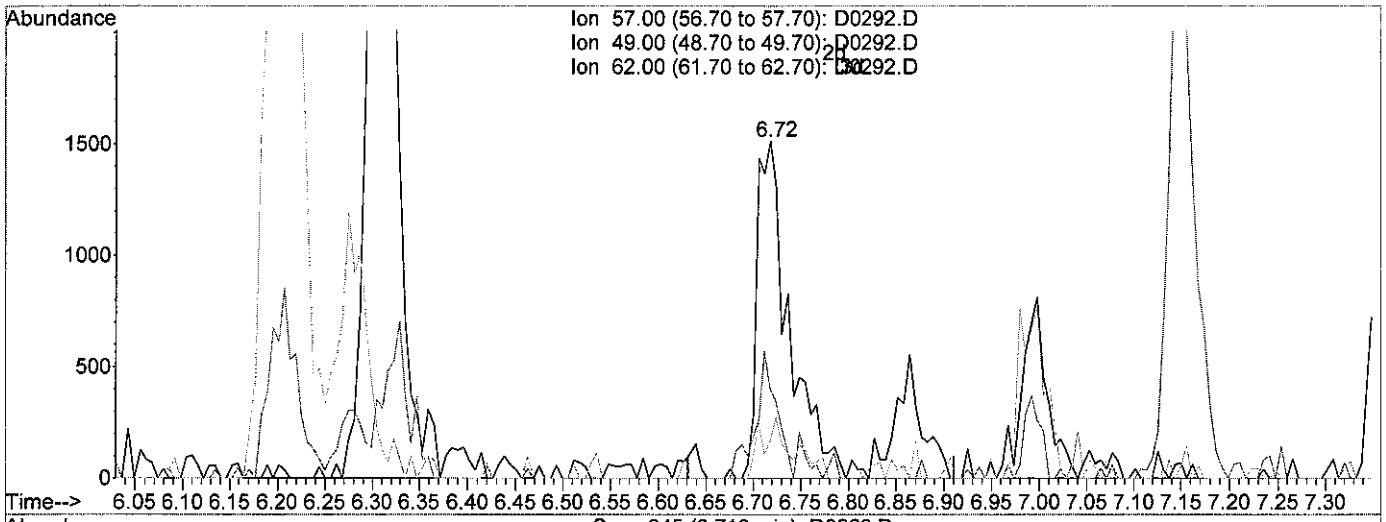
Before

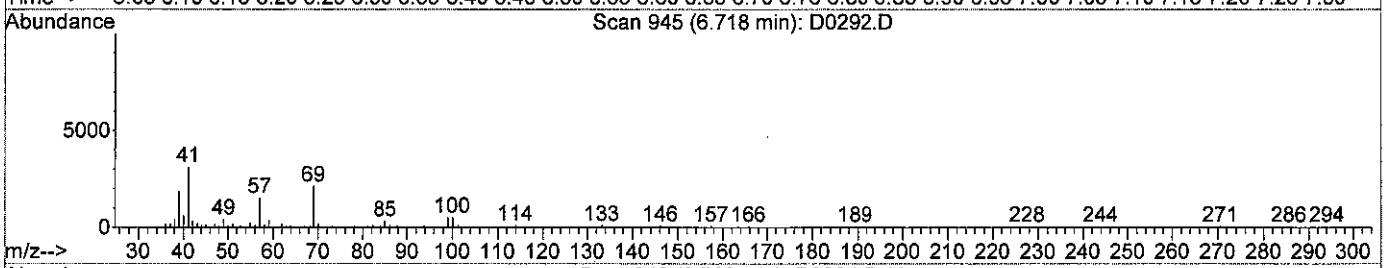
07/15/16

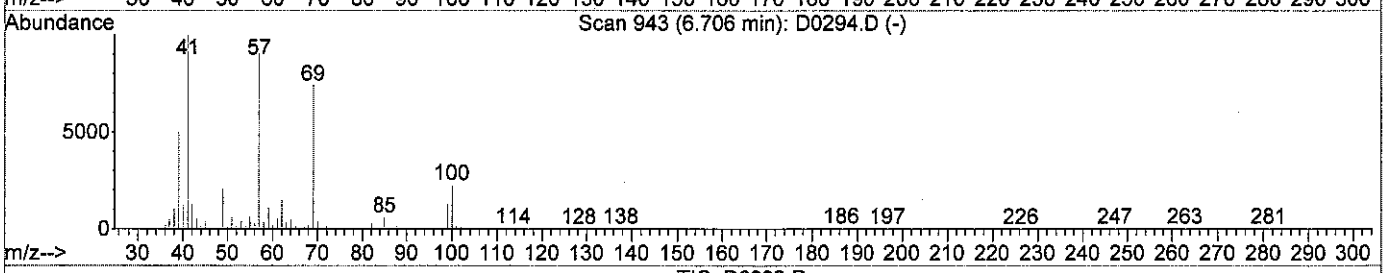
Quantitation Report (Qedit)

Data File : I:\ACQUDATA\MSVOA6\DATA\071416\D0292.D Vial: 16
Acq On : 14 Jul 2016 3:12 pm Operator: D.LIPANI
Sample : STD #4 - 5.0 PPB Inst : MS#6
Misc : 8260C / 624 ICAL GCMS#6 Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Jul 15 11:45 2016 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA6\METHODS\W071416.M (RTE Integrator)
Title : 8260C / 624 WATERS
Last Update : Fri Jul 15 11:29:30 2016
Response via : Multiple Level Calibration







TIC: D0292.D

(58) Epichlorohydrin

6.72min 22.00ug/L m

response 3555

Ion	Exp%	Act%
57.00	100	100
49.00	27.70	26.65
62.00	17.00	10.91
0.00	0.00	0.00

Manual Integration:

After

Split Peak.

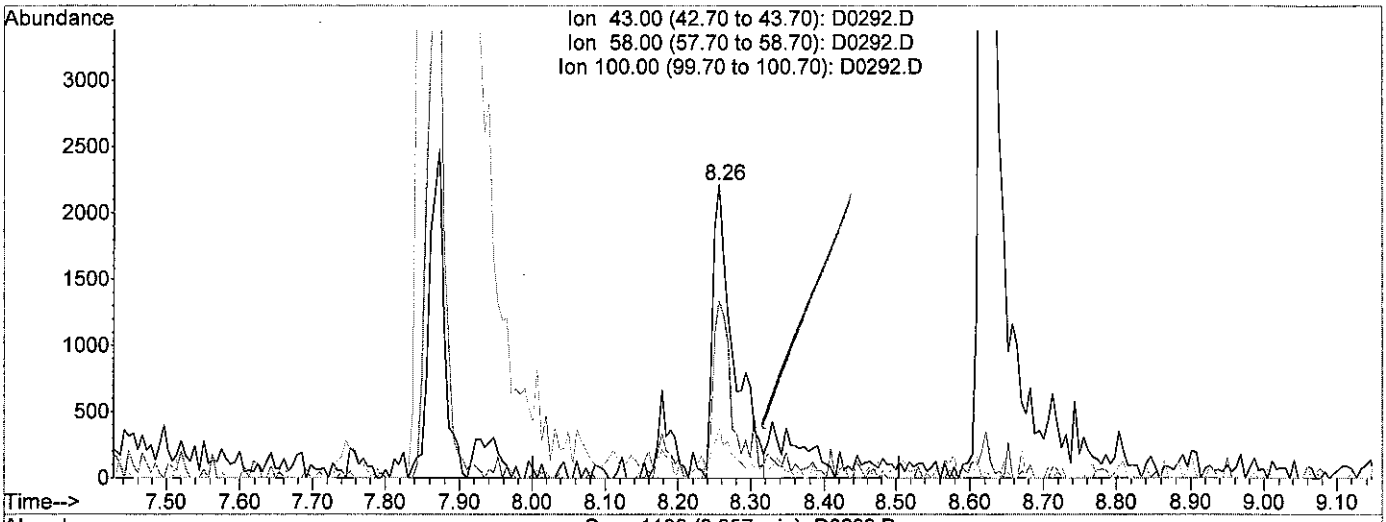
07/15/16 DL

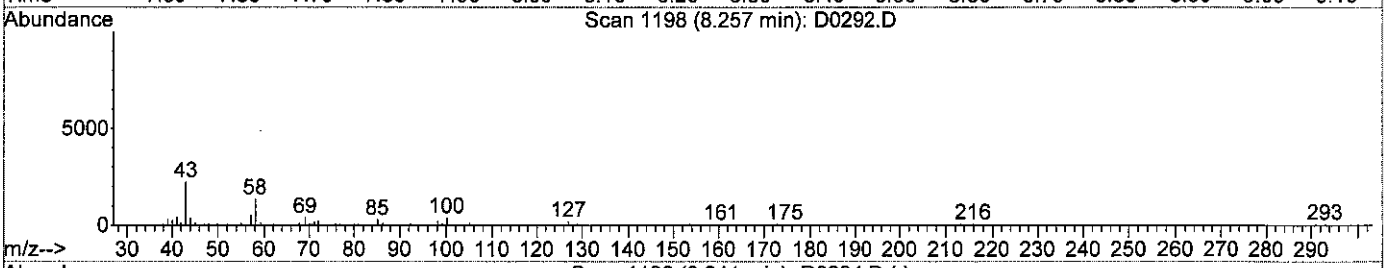
FD 7/18/16

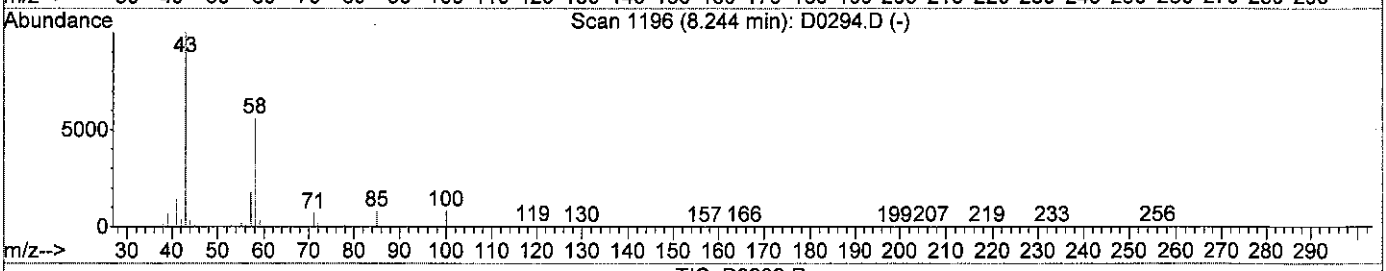
Quantitation Report (Qedit)

Data File : I:\ACQUDATA\MSVOA6\DATA\071416\D0292.D Vial: 16
Acq On : 14 Jul 2016 3:12 pm Operator: D.LIPANI
Sample : STD #4 - 5.0 PPB Inst : MS#6
Misc : 8260C / 624 ICAL GCMS#6 Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Jul 15 11:45 2016 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA6\METHODS\W071416.M (RTE Integrator)
Title : 8260C / 624 WATERS
Last Update : Fri Jul 15 11:29:30 2016
Response via : Single Level Calibration







TIC: D0292.D

(73) 2-Hexanone (P)

8.26min 3.82ug/L

response 4466

Ion	Exp%	Act%
43.00	100	100
58.00	60.50	57.17
100.00	10.90	14.51
0.00	0.00	0.00

Manual Integration:

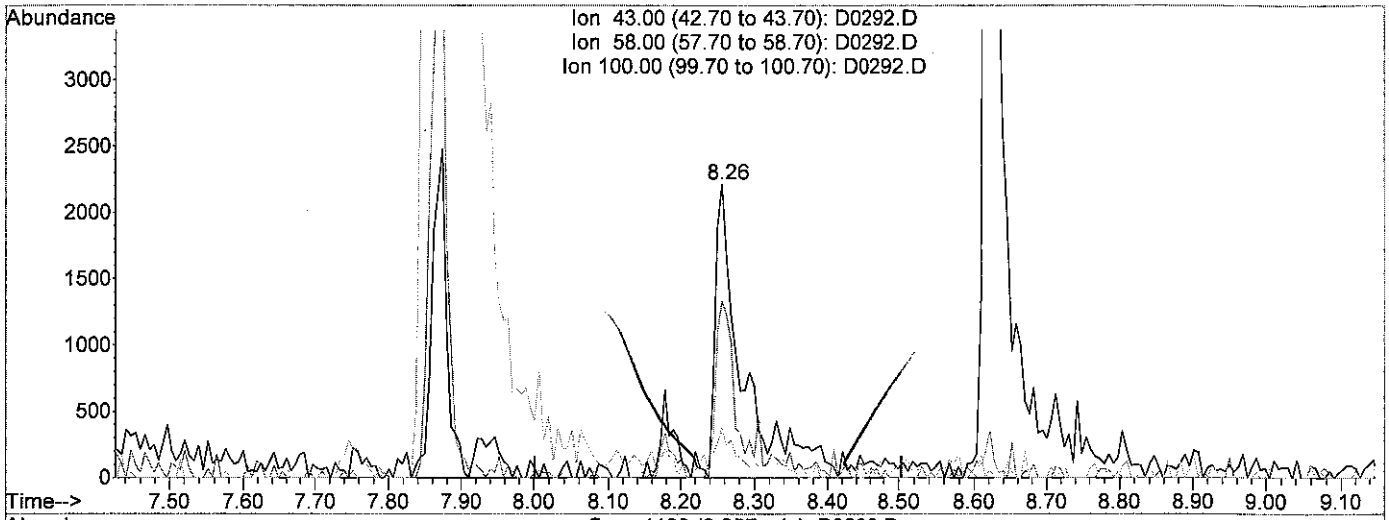
Before

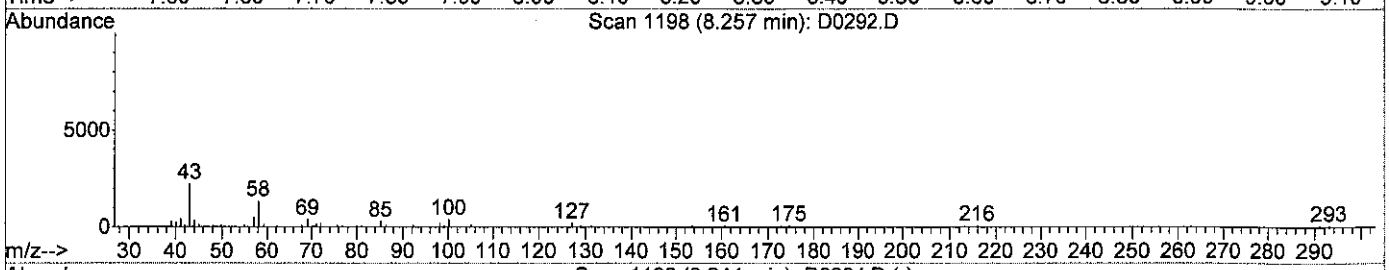
07/15/16

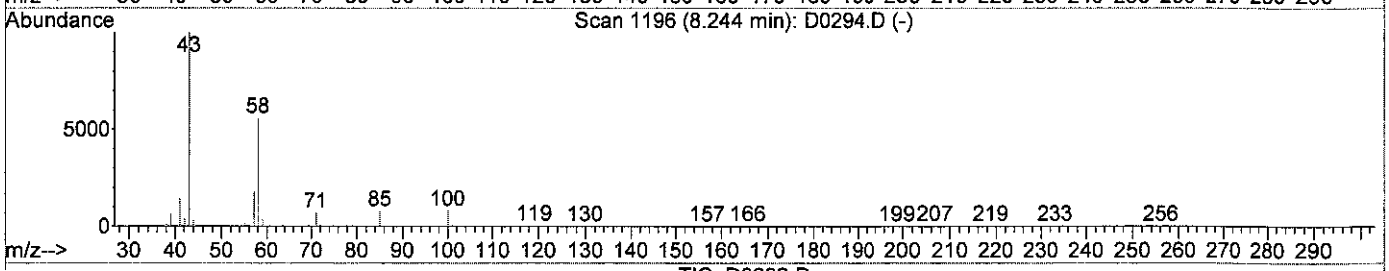
Quantitation Report (Qedit)

Data File : I:\ACQUDATA\MSVOA6\DATA\071416\D0292.D Vial: 16
Acq On : 14 Jul 2016 3:12 pm Operator: D.LIPANI
Sample : STD #4 - 5.0 PPB Inst : MS#6
Misc : 8260C / 624 ICAL GCMS#6 Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Jul 15 11:46 2016 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA6\METHODS\W071416.M (RTE Integrator)
Title : 8260C / 624 WATERS
Last Update : Fri Jul 15 11:29:30 2016
Response via : Single Level Calibration







TIC: D0292.D

(73) 2-Hexanone (P)

8.26min 4.90ug/L m

response 5726

Ion	Exp%	Act%
43.00	100	100
58.00	60.50	44.59
100.00	10.90	11.32
0.00	0.00	0.00

Manual Integration:

After

Split Peak.

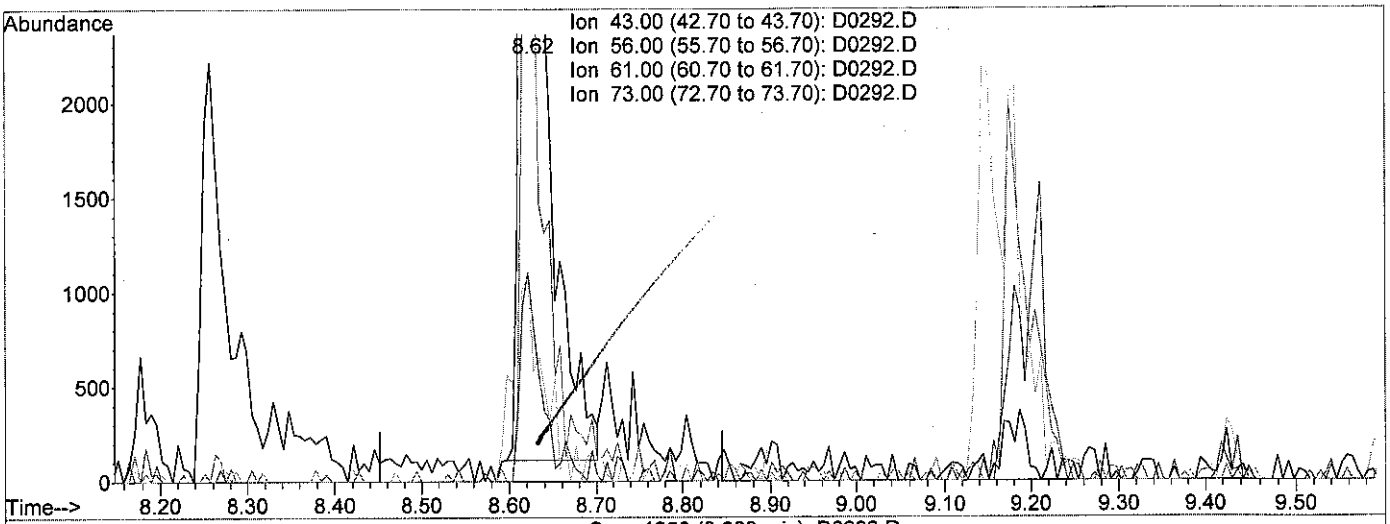
07/15/16 DL

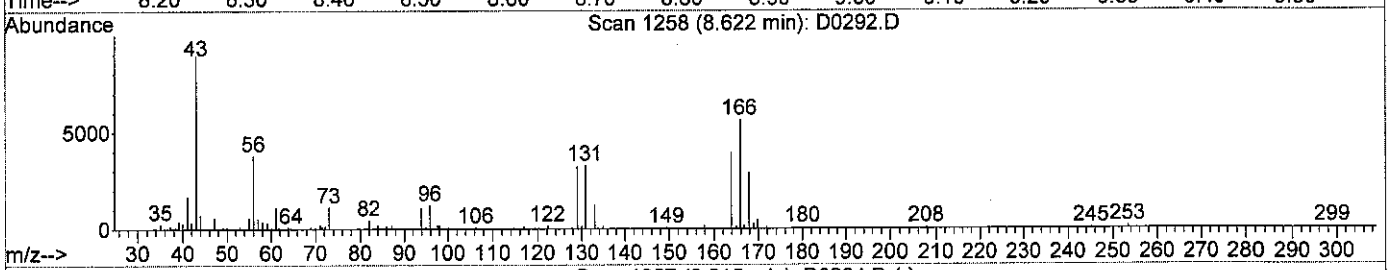
FJ 7/18/16

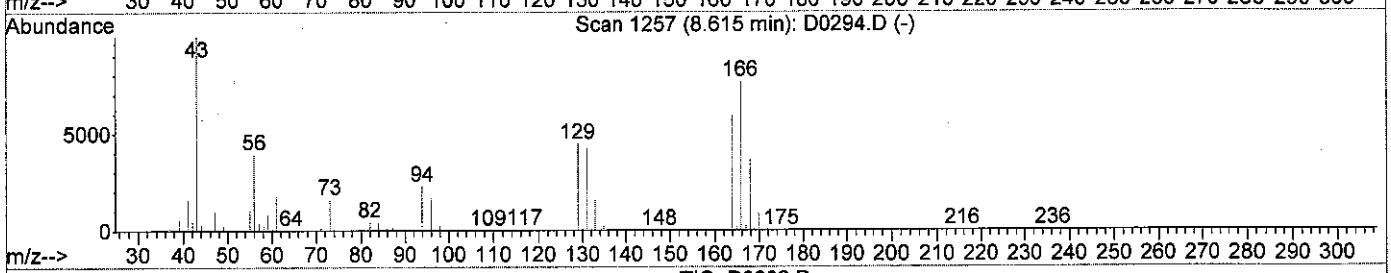
Quantitation Report (Qedit)

Data File : I:\ACQUDATA\MSVOA6\DATA\071416\D0292.D Vial: 16
Acq On : 14 Jul 2016 3:12 pm Operator: D.LIPANI
Sample : STD #4 - 5.0 PPB Inst : MS#6
Misc : 8260C / 624 ICAL GCMS#6 Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Jul 15 11:46 2016 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA6\METHODS\W071416.M (RTE Integrator)
Title : 8260C / 624 WATERS
Last Update : Fri Jul 15 11:29:30 2016
Response via : Multiple Level Calibration







TIC: D0292.D

(75) n-Butyl Acetate

8.62min 4.73ug/L

response 13627

Ion	Exp%	Act%
43.00	100	100
56.00	40.30	41.36
61.00	20.70	13.28
73.00	15.40	11.93

Manual Integration:

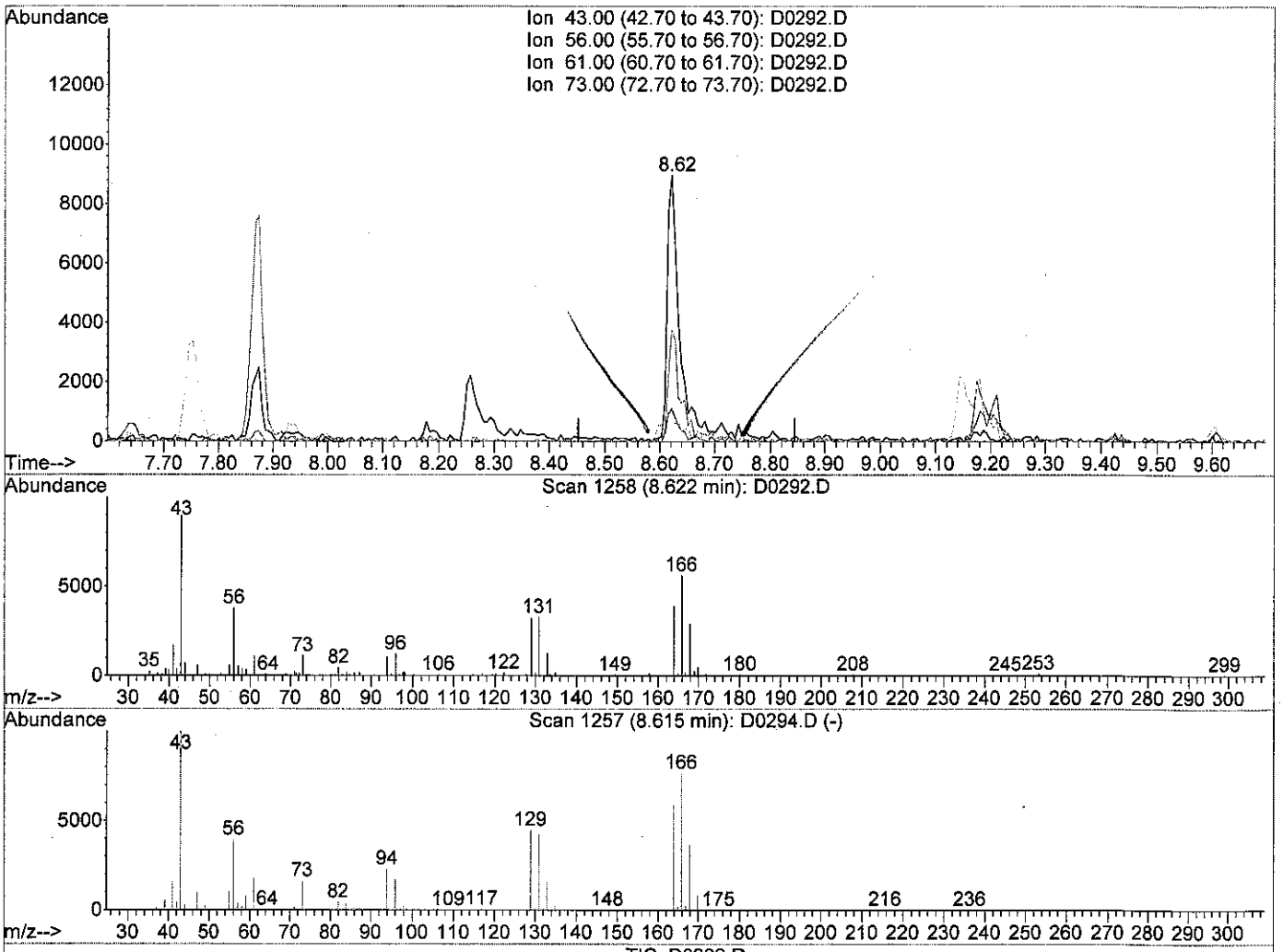
Before

07/15/16

Quantitation Report (Qedit)

Data File : I:\ACQUDATA\MSVOA6\DATA\071416\D0292.D Vial: 16
Acq On : 14 Jul 2016 3:12 pm Operator: D.LIPANI
Sample : STD #4 - 5.0 PPB Inst : MS#6
Misc : 8260C / 624 ICAL GCMS#6 Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Jul 15 11:46 2016 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA6\METHODS\W071416.M (RTE Integrator)
Title : 8260C / 624 WATERS
Last Update : Fri Jul 15 11:29:30 2016
Response via : Multiple Level Calibration



(75) n-Butyl Acetate

8.62min 5.24ug/L m

response 15103

Ion	Exp%	Act%
43.00	100	100
56.00	40.30	37.32
61.00	20.70	11.98
73.00	15.40	10.77

Manual Integration:

After

Poor integration.

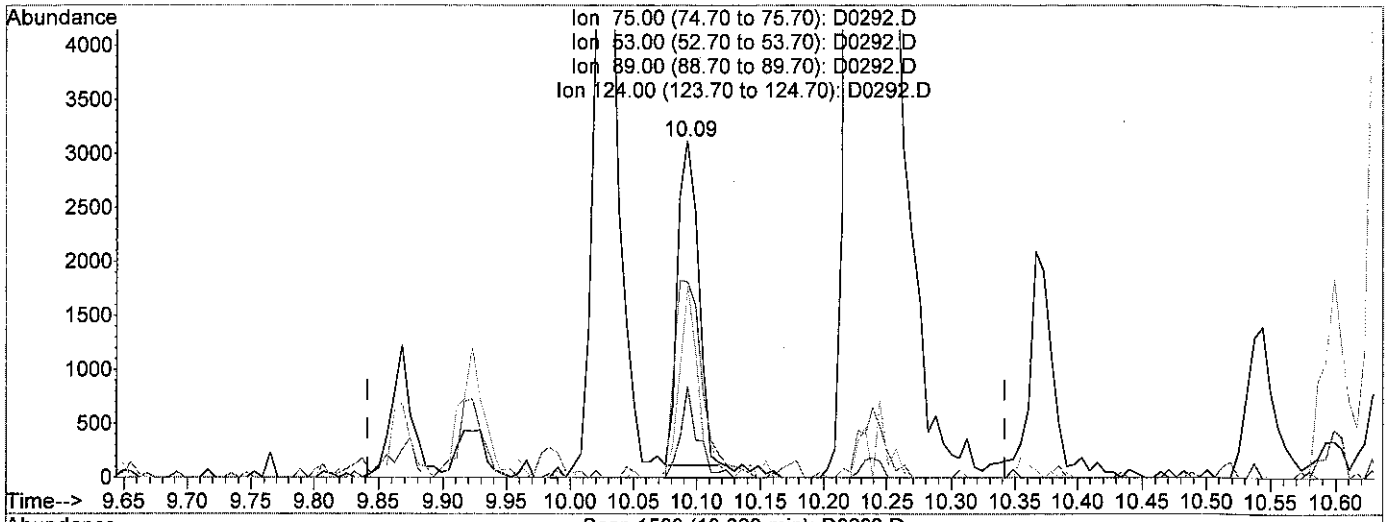
07/15/16 AL

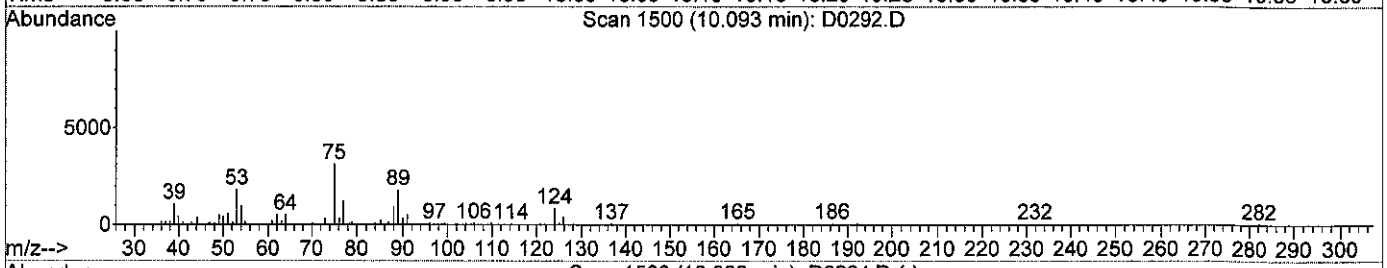
FU 7/18/16

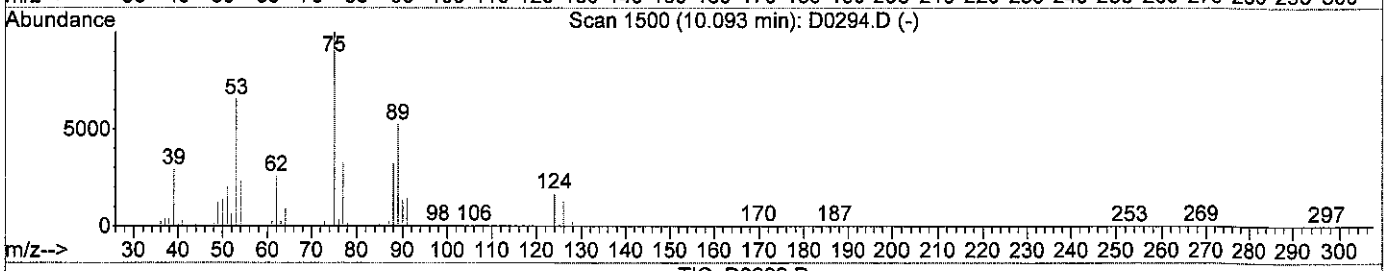
Quantitation Report (Qedit)

Data File : I:\ACQUDATA\MSVOA6\DATA\071416\D0292.D Vial: 16
Acq On : 14 Jul 2016 3:12 pm Operator: D.LIPANI
Sample : STD #4 - 5.0 PPB Inst : MS#6
Misc : 8260C / 624 ICAL GCMS#6 Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Jul 15 11:46 2016 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA6\METHODS\W071416.M (RTE Integrator)
Title : 8260C / 624 WATERS
Last Update : Fri Jul 15 11:29:30 2016
Response via : Multiple Level Calibration







TIC: D0292.D

(86) trans-1,4-Dichloro-2-Butene

10.09min 3.96ug/L

response 3440

Ion	Exp%	Act%
75.00	100	100
53.00	64.00	58.05
89.00	51.30	57.02
124.00	16.40	27.00

Manual Integration:

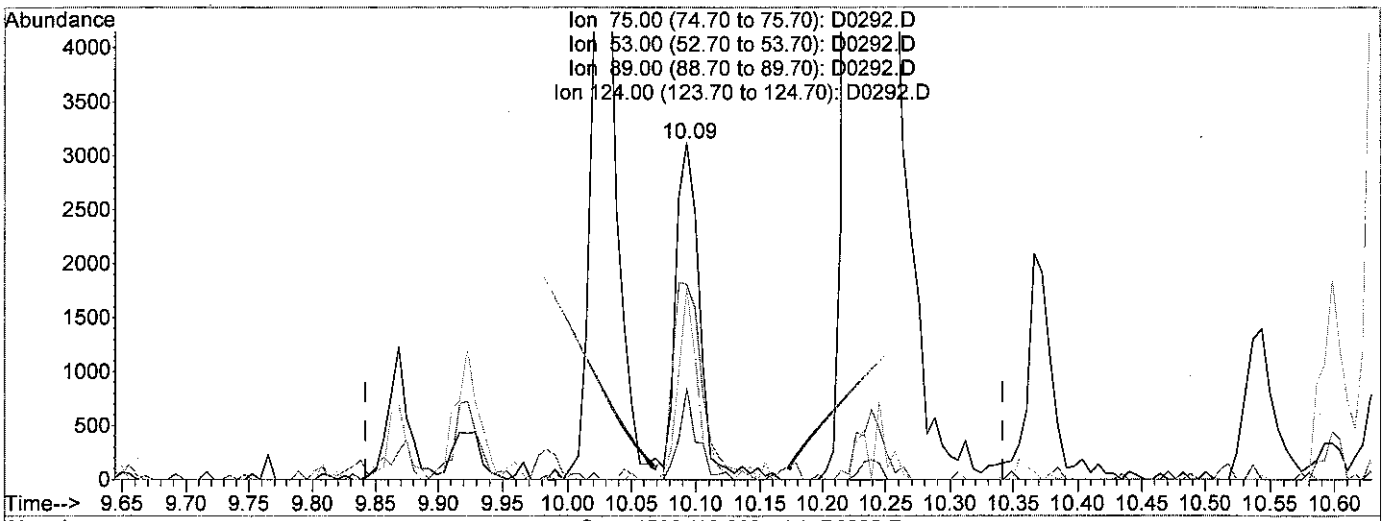
Before

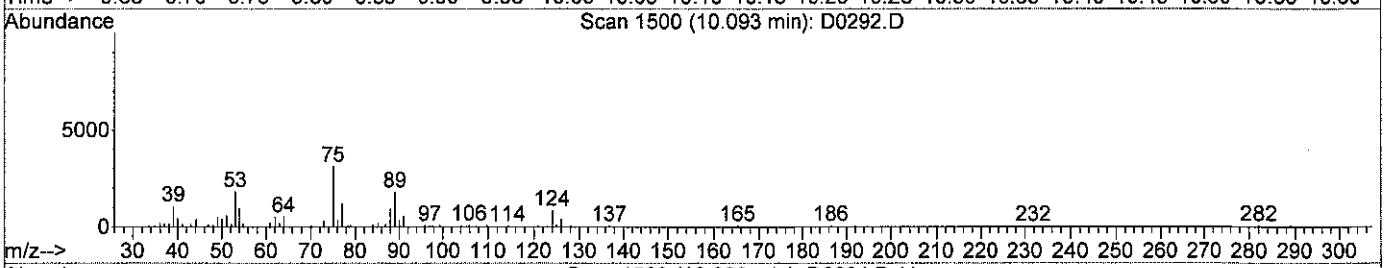
07/15/16

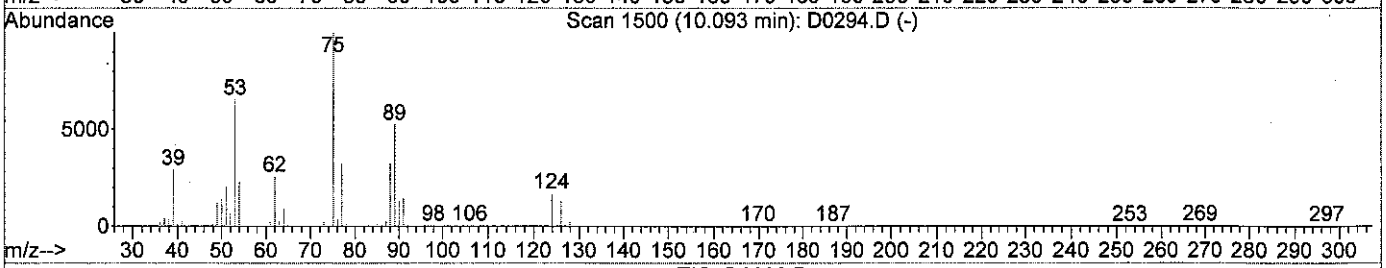
Quantitation Report (Qedit)

Data File : I:\ACQUDATA\MSVOA6\DATA\071416\D0292.D Vial: 16
Acq On : 14 Jul 2016 3:12 pm Operator: D.LIPANI
Sample : STD #4 - 5.0 PPB Inst : MS#6
Misc : 8260C / 624 ICAL GCMS#6 Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Jul 15 11:47 2016 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA6\METHODS\W071416.M (RTE Integrator)
Title : 8260C / 624 WATERS
Last Update : Fri Jul 15 11:29:30 2016
Response via : Multiple Level Calibration







TIC: D0292.D

(86) trans-1,4-Dichloro-2-Butene

10.09min 4.53ug/L m

response 3938

Ion	Exp%	Act%
75.00	100	100
53.00	64.00	58.05
89.00	51.30	57.02
124.00	16.40	27.00

Manual Integration:

After

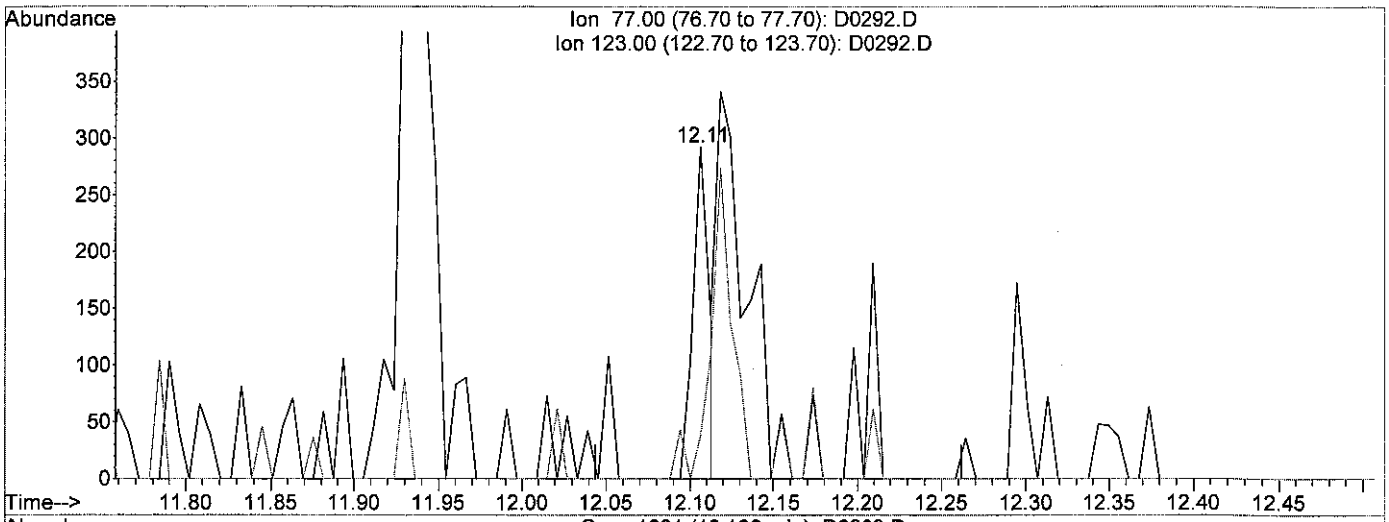
Poor integration.

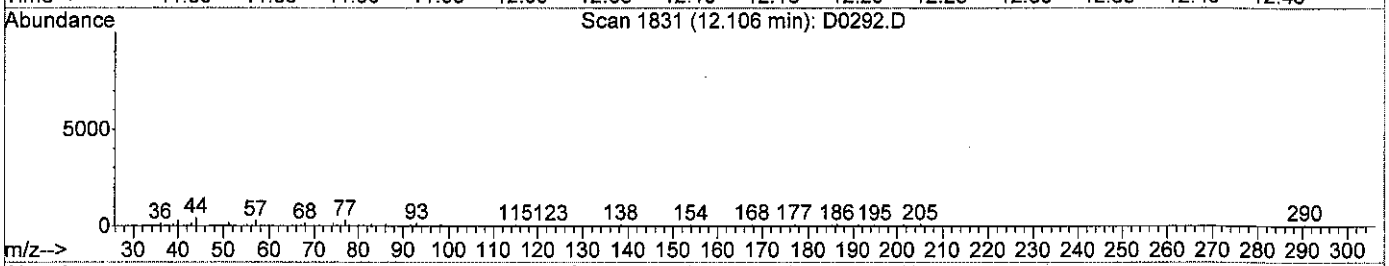
07/15/16 DL PV 7/18/16

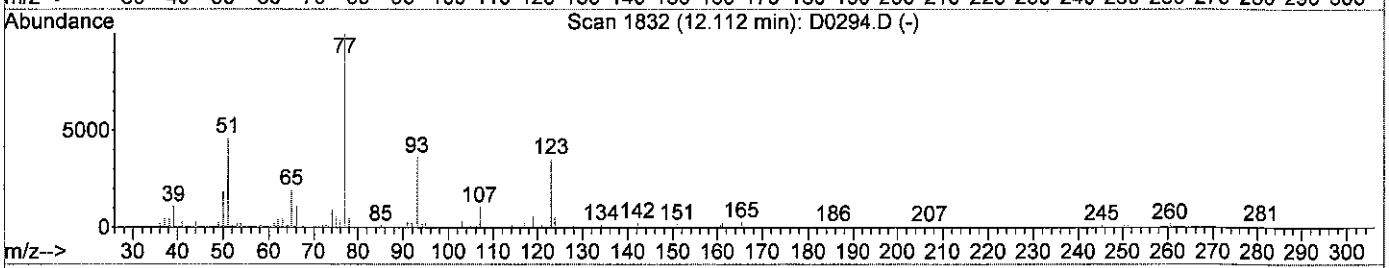
Quantitation Report (Qedit)

Data File : I:\ACQUDATA\MSVOA6\DATA\071416\D0292.D Vial: 16
Acq On : 14 Jul 2016 3:12 pm Operator: D.LIPANI
Sample : STD #4 - 5.0 PPB Inst : MS#6
Misc : 8260C / 624 ICAL GCMS#6 Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Jul 15 11:47 2016 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA6\METHODS\W071416.M (RTE Integrator)
Title : 8260C / 624 WATERS
Last Update : Fri Jul 15 11:29:30 2016
Response via : Single Level Calibration







TIC: D0292.D

(106) Nitrobenzene

12.11min 2.90ug/L

response 197

Ion	Exp%	Act%
77.00	100	100
123.00	35.00	13.01#
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

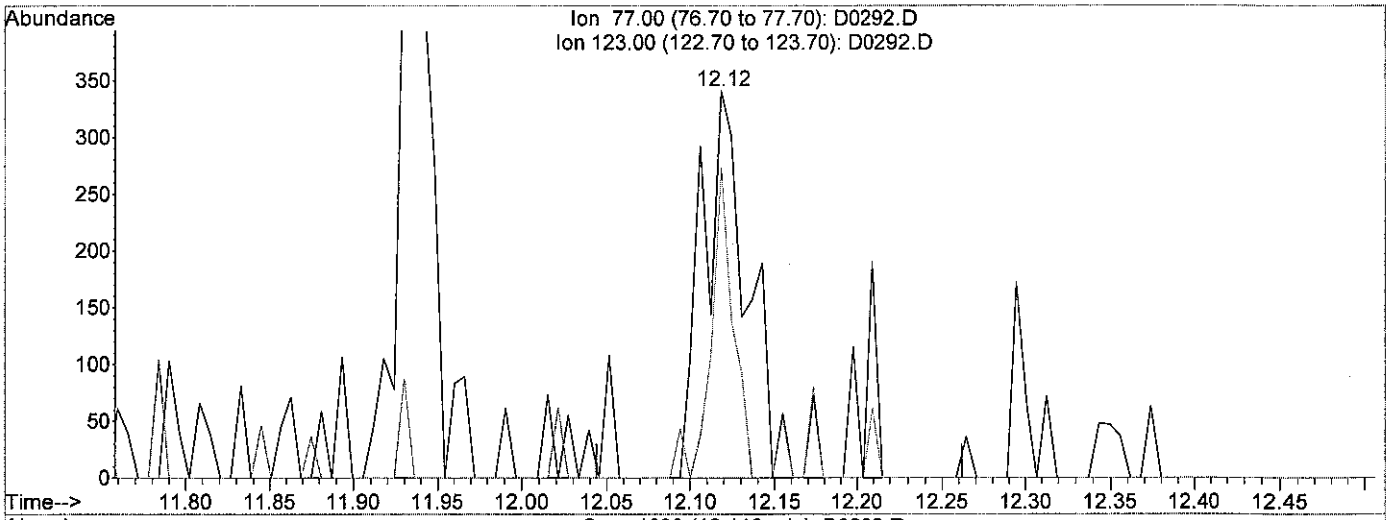
Before

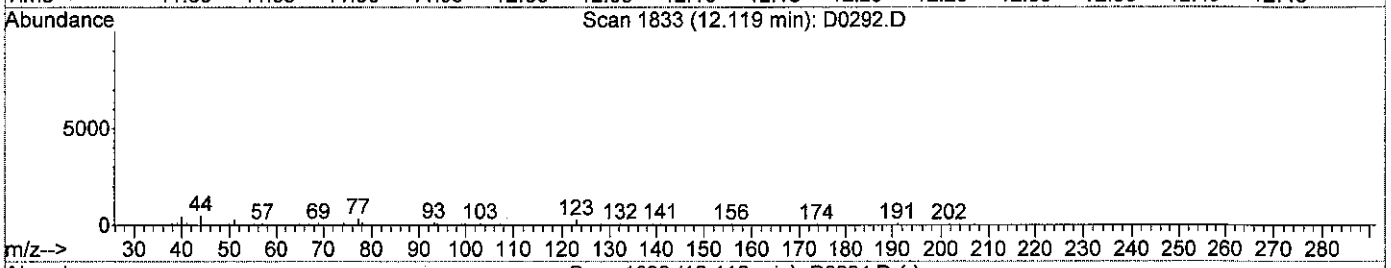
07/15/16

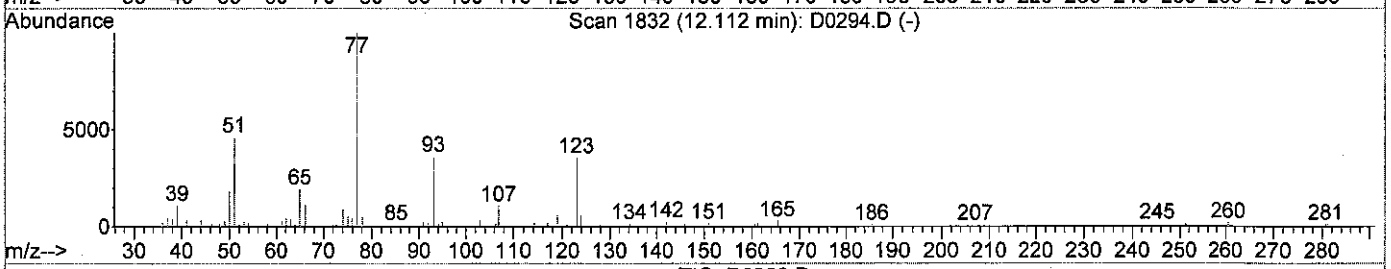
Quantitation Report (Qedit)

Data File : I:\ACQUDATA\MSVOA6\DATA\071416\D0292.D Vial: 16
Acq On : 14 Jul 2016 3:12 pm Operator: D.LIPANI
Sample : STD #4 - 5.0 PPB Inst : MS#6
Misc : 8260C / 624 ICAL GCMS#6 Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Jul 15 11:48 2016 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA6\METHODS\W071416.M (RTE Integrator)
Title : 8260C / 624 WATERS
Last Update : Fri Jul 15 11:29:30 2016
Response via : Single Level Calibration







TIC: D0292.D

(106) Nitrobenzene

12.12min 8.98ug/L m

response 610

Ion	Exp%	Act%
77.00	100	100
123.00	35.00	80.06#
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

Split Peak.

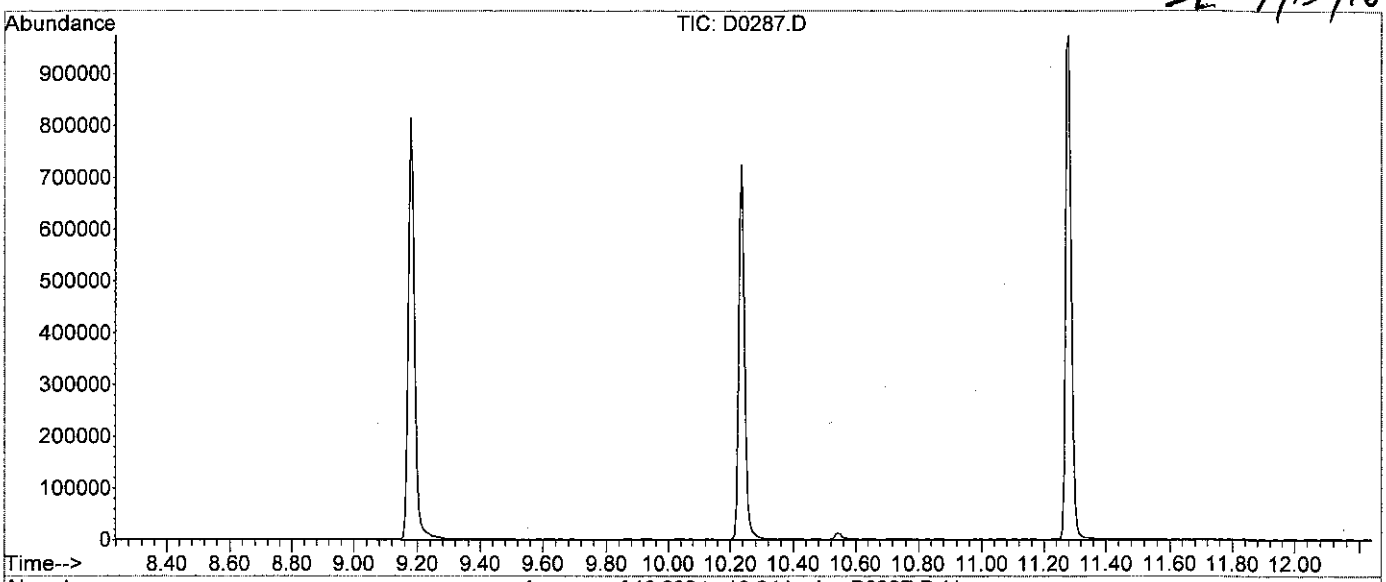
07/15/16 DL

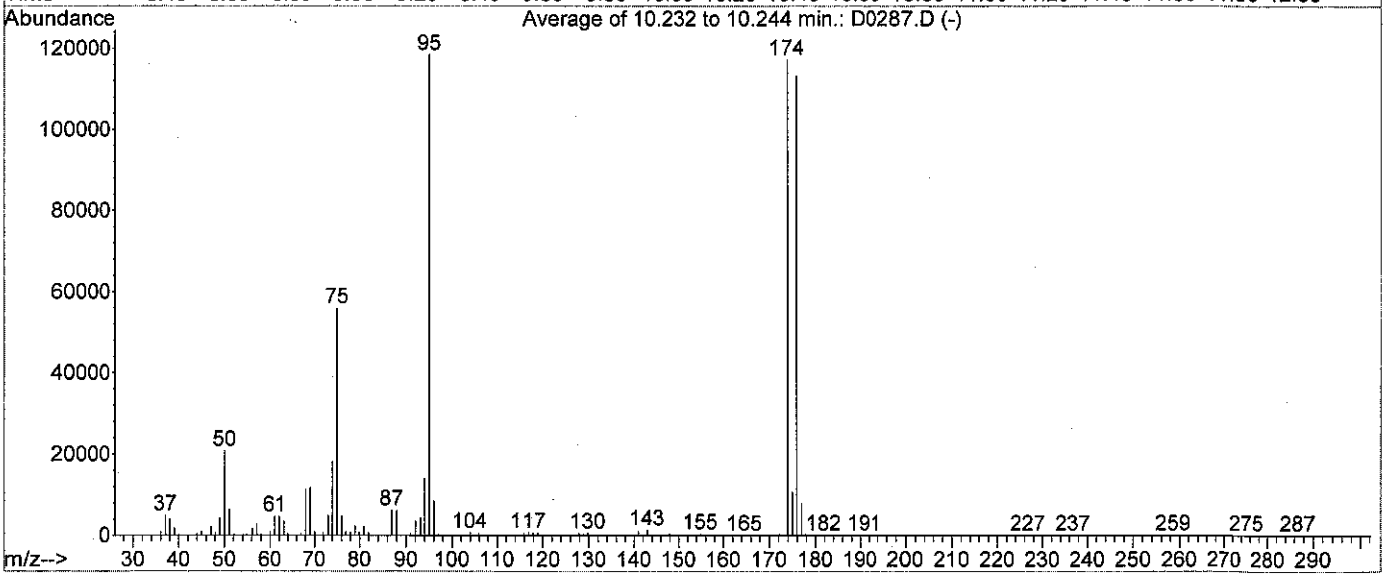
FU 7/18/16

BFB

Data File : I:\ACQUDATA\MSVOA6\DATA\071416\D0287.D Vial: 11
Acq On : 14 Jul 2016 12:24 pm Operator: D.LIPANI
Sample : TUNE CHECK Inst : MS#6
Misc : 8260C / 624 ICAL GCMS#6 Multiplr: 1.00
MS Integration Params: CPD4.P
Method : I:\ACQUDATA\MSVOA6\METHODS\W071416.M (RTE Integrator)
Title : 8260C / 624 WATERS

DL 7/15/16





Spectrum Information: Average of 10.232 to 10.244 min. sub. scan = 1518

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	17.5	20749	PASS
75	95	30	60	47.2	55880	PASS
95	95	100	100	100.0	118461	PASS
96	95	5	9	7.1	8387	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	99.0	117235	PASS
175	174	5	9	9.0	10518	PASS
176	174	95	101	96.5	113165	PASS
177	176	5	9	6.9	7800	PASS

D0287.D W071416.M Fri Jul 15 16:46:10 2016

Analysis: 8260C/624 Analyst: D. [illegible]
Date: (DL) ~~07/15/16~~ 07/14/16 Data Path: j:\acqudata\msvoa 6\DATA\071516\...
Instr. GCMS#6

Tune Method: W071416.M
Run Method: ↓ ↓ ↓
LIMS Run#: ICAL

Pos.	Sample	Diln.	Diln. Prep.	RL	Tier	Vial	pH	File#	OK?	Comments
→	→	→	Back to 10ml purge, split = 60:1							
1	Blk							D0279	O.K.	
2	Blk							D0280	Y	
3	Tune Check		(Run as a Blk)					81	N	used wrong method ~~To~~ (DL) W071316
4	Tune Check		" " "					82	Y	
5	Inst Blk		DL					83	Y	
		Surr	1°Targ ~~5.0~~ 1°Targ 1°TG							Final
		500	5.0 10 500							Volume DI
6	STD #1 - 0.5ppb	–	5.0µl – –					D0284	N	50mL
7	#2 - 1.0ppb	–	– 5.0µl –					85	N	50mL
→	→	Note:	Not sensitive enough for some compounds at low end - put split at							50:1 and restart
8	Blk - split = 50:1							D0286	Y	
9	Tune Check							87	Y	
10	Inst Blk							88	Y	
		Surr	1°Targ 1°Targ 1°TG 1°HSL 1°Fr+ 1°EK+							Final
		500	5.0 10 500 500 500 500							Volume DI
11	STD #1 - 0.5ppb	–	5.0µl – – – – –					D0289	Y	50mL
12	#2 - 1.0ppb	–	– 5.0µl – – – –					D0290	Y	50mL
13	#3 - 2.0ppb	1.0µl	– 10µl – – – –					91	Y	~~200mL~~ 50mL } corrections
14	#4 - 5.0ppb	8.0µl	– – 2.0µl →					92	Y	~~50mL~~ 200mL } DL 7/14/16
15	#5 - 20ppb	5.0µl	– – 2.0µl →					93	Y	50mL
16	#6 - 50ppb	–	– – 5.0µl →					94	Y	
17	#7 - 100ppb	7.5µl	– – 10µl →					95	Y	
18	#8 - 150ppb	10µl	– – 15µl →					96	Y	
19	#9 - 200ppb	–	– – 20µl →					97	Y	
20	Blk							98	N	x-over
21	Blk							99	Y	
22	ICV - 50ppb							D0300	Y	except bromoform just ↑
23-34	Blks							D0301-D0312	Y	
	EOD DL 7-14-16									

All samples = 10 mL + 1.0 uL combined IS/Surr. 10 mL purged

Primary TG : 173939 10µl
Primary HSL : 173847
Primary Fr+ : 173940
Primary EK+ : 174084
Primary :

1.0mL MeOH = 1°Targ 5.0

, 20µl

1.0mL MeOH = 1°Targ 10

Secondary TG : 173918 ~~2.0µl~~ 5.0µl
Secondary HSL : 173941 ~~2.0µl~~ 5.0µl
Secondary Fr+ : 173942 12.5µl
Secondary EK+ : 173622 12.5µl
Secondary :

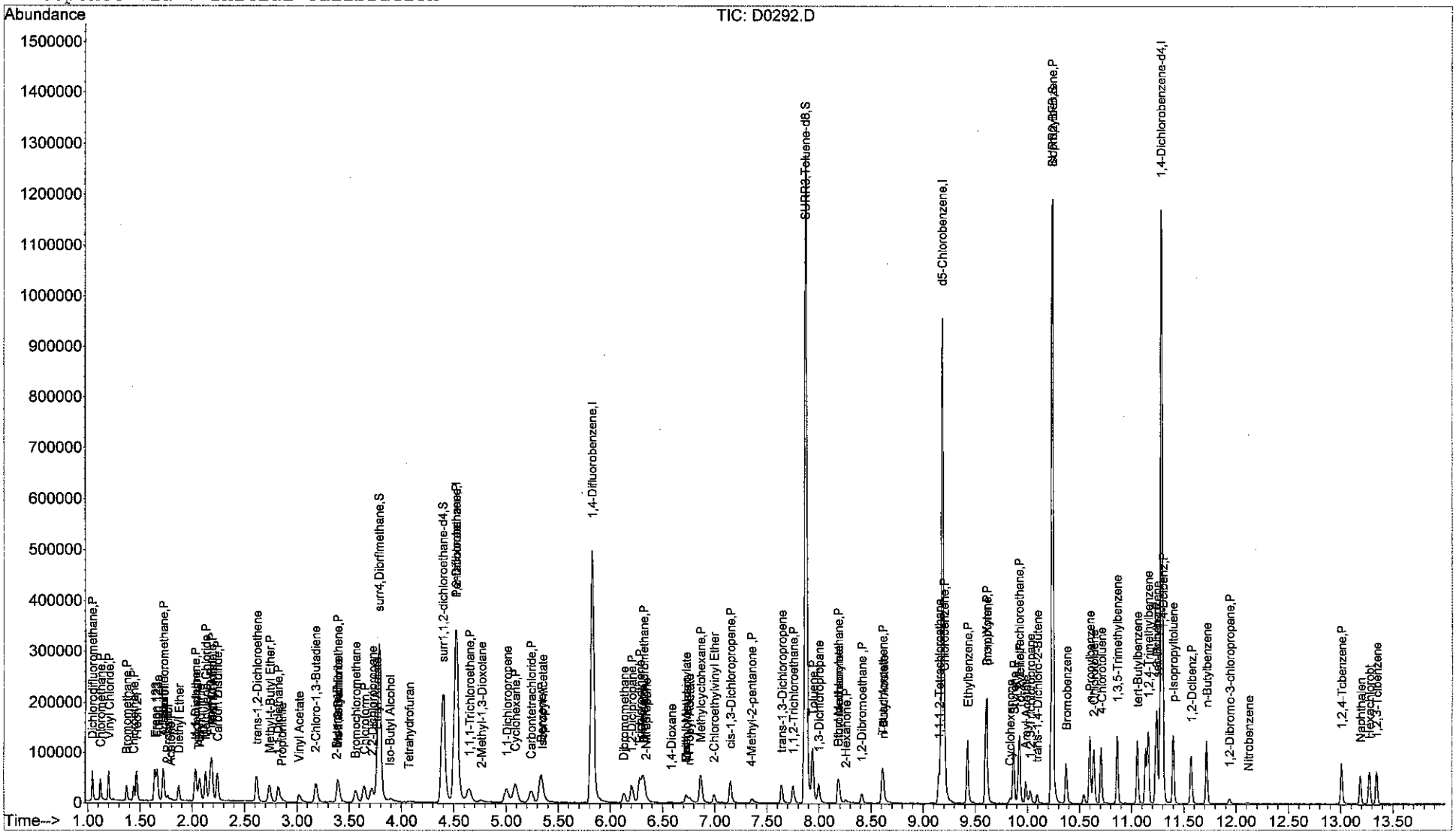
50mL DI = ICV

Combined IS/Surr 500 : 174027
Surrogate 500 : 173507
Internal Std :

Quantitation Report

Data File : I:\ACQUDATA\MSVOA6\DATA\071416\D0292.D Vial: 16
Acq On : 14 Jul 2016 3:12 pm Operator: D.LIPANI
Sample : STD #4 - 5.0 PPB Inst : MS#6
Misc : 8260C / 624 ICAL GCMS#6 Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Jul 15 11:48 2016 Quant Results File: W071416.RES

Method : I:\ACQUDATA\MSVOA6\METHODS\W071416.M (RTE Integrator)
Title : 8260C / 624 WATERS
Last Update : Fri Jul 15 11:29:30 2016
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : I:\ACQUDATA\MSVOA6\DATA\071416\D0293.D Vial: 17
Acq On : 14 Jul 2016 3:44 pm Operator: D.LIPANI
Sample : STD #5 - 20 PPB Inst : MS#6
Misc : 8260C / 624 ICAL GCMS#6 Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Jul 15 11:51 2016 Quant Results File: W071416.RES

Quant Method : I:\ACQUDATA\M...\W071416.M (RTE Integrator)
Title : 8260C / 624 WATERS
Last Update : Fri Jul 15 11:49:01 2016
Response via : Initial Calibration
DataAcq Meth : W071416

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Pentafluorobenzene	4.52	168	347510	50.00 ug/L	0.00
40) 1,4-Difluorobenzene	5.82	114	512737	50.00 ug/L	0.00
69) d5-Chlorobenzene	9.18	117	438185	50.00 ug/L	0.00
89) 1,4-Dichlorobenzene-d4	11.29	152	259463	50.00 ug/L	0.00

System Monitoring Compounds					
41) surr4,Dibrflmethane	3.79	113	321944	97.51 ug/L	0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 195.02%#		
43) surr1,1,2-dichloroethane-d	4.40	65	289558	98.18 ug/L	0.00
Spiked Amount 50.000	Range 65 - 130		Recovery = 196.36%#		
67) SURR3,Toluene-d8	7.87	98	1010736	97.99 ug/L	0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 195.98%#		
88) SURR2,BFB	10.24	95	394225	93.64 ug/L	0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 187.28%#		

Target Compounds					Qvalue
2) Dichlorodifluoromethane	1.04	85	107577	21.57 ug/L	98
3) Chloromethane	1.12	50	104726	20.54 ug/L	99
4) Vinyl Chloride	1.20	62	127841	22.42 ug/L	97
5) Bromomethane	1.37	94	50420	20.13 ug/L	97
6) Chloroethane	1.44	64	62098	21.77 ug/L	100
7) Freon 21	1.47	67	123376	19.52 ug/L	95
8) Freon 123	1.64	83	100639	19.03 ug/L	97
9) Freon 123a	1.66	67	80389	18.87 ug/L	95
10) Acrolein	1.72	56	33353	102.47 ug/L	99
11) Trichlorofluoromethane	1.73	101	112941	21.52 ug/L	97
12) Acetonitrile	1.73	41	23316	100.94 ug/L	96
13) 2-Propanol	1.76	45	38402	406.61 ug/L	92
14) Acetone	1.79	43	10085	20.74 ug/L	90
15) Diethyl Ether	1.87	59	47892	20.84 ug/L	97
16) 1,1-Diclethene	2.03	96	69788	20.73 ug/L	98
17) Iodomethane	2.04	142	85615	21.13 ug/L	97
18) TBA	2.07	59	62164	424.53 ug/L	96
19) Acrylonitrile	2.07	53	82019	111.43 ug/L	95
20) Methylene Chloride	2.13	84	78421	21.46 ug/L	99
21) Freon 113	2.18	101	79080	22.47 ug/L	98
22) Methyl Acetate	2.18	43	30053	19.61 ug/L	97
23) Allyl Chloride	2.19	76	44239	22.29 ug/L #	88
24) Carbon Disulfide	2.24	76	228321	20.34 ug/L	97
25) trans-1,2-Dichloroethene	2.62	96	74804	21.06 ug/L	97
26) Methyl-t-Butyl Ether	2.74	73	144530	21.84 ug/L	95
27) 1,1-Diclethane	2.82	63	125465	22.64 ug/L	96
28) Propionitrile	2.85	54	25460	109.95 ug/L	96
29) Vinyl Acetate	3.02	43	104699	22.19 ug/L	100
30) 2-Chloro-1,3-Butadiene	3.18	53	101876	20.60 ug/L	93
31) 2-Butanone	3.29	43	16122	20.39 ug/L	96
32) Methacrylonitrile	3.39	67	16102	20.49 ug/L	93
33) cis-1,2-Dichloroethene	3.40	96	78575	21.67 ug/L	98
34) Bromochloromethane	3.56	128	33108	21.12 ug/L #	86
35) Chloroform	3.64	83	127649	21.47 ug/L	93
36) 2,2-Dichloropropane	3.72	77	103887	21.44 ug/L	96

DL 7/15/16

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

Quantitation Report (QT Reviewed)

Data File : I:\ACQUDATA\MSVOA6\DATA\071416\D0293.D Vial: 17
Acq On : 14 Jul 2016 3:44 pm Operator: D.LIPANI
Sample : STD #5 - 20 PPB Inst : MS#6
Misc : 8260C / 624 ICAL GCMS#6 Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Jul 15 11:51 2016 Quant Results File: W071416.RES

Quant Method : I:\ACQUDATA\M...\W071416.M (RTE Integrator)
Title : 8260C / 624 WATERS
Last Update : Fri Jul 15 11:49:01 2016
Response via : Initial Calibration
DataAcq Meth : W071416

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
37)	Ethyl Acetate	3.75	43	70264	43.42 ug/L	94
38)	Tetrahydrofuran	4.06	42	11401	21.82 ug/L	91
39)	1,1,1-Trichloroethane	4.66	97	104350	21.93 ug/L	97
42)	Iso-Butyl Alcohol	3.88	43	28483	425.65 ug/L	99
44)	1,2-Dichloroethane	4.52	64	21594	19.19 ug/L	95
45)	2-Methyl-1,3-Dioxolane	4.75	73	19839	96.17 ug/L	91
46)	1,1-Dichloropropene	5.01	75	94344	21.37 ug/L	94
47)	Cyclohexane	5.09	56	101165	19.42 ug/L	93
48)	Carbontetrachloride	5.24	119	87576	20.74 ug/L	97
49)	Benzene	5.34	78	279377	21.73 ug/L	98
50)	Isopropyl Acetate	5.35	43	73399	20.10 ug/L	95
51)	Dibromomethane	6.13	93	33994	21.35 ug/L	95
52)	1,2-Diclpropane	6.20	63	72774	22.03 ug/L	91
53)	n-Heptane	6.30	43	85420	21.97 ug/L	96
54)	Trichloroethene	6.28	130	74767	22.03 ug/L	99
55)	Bromodichloromethane	6.33	83	86752	20.71 ug/L	99
56)	2-Nitropropane	6.35	41	16184	41.96 ug/L	88
57)	1,4-Dioxane	6.55	88	5606	380.12 ug/L	76
58)	Epichlorohydrin	6.71	57	15708	94.50 ug/L	94
59)	Methyl Methacrylate	6.72	69	29249m	22.14 ug/L	
60)	n-Propyl Acetate	6.75	43	53151	21.41 ug/L	93
61)	Methylcyclohexane	6.86	55	73705	19.56 ug/L	98
62)	2-Chloroethylvinyl Ether	6.99	63	30181	20.38 ug/L	96
63)	cis-1,3-Dichloropropene	7.15	75	105902	22.64 ug/L	99
64)	4-Methyl-2-pentanone	7.35	43	31445	19.39 ug/L	98
65)	trans-1,3-Dichloropropene	7.64	75	81893	22.01 ug/L	99
66)	1,1,2-Trichloroethane	7.75	97	46519	21.36 ug/L	98
68)	Toluene	7.94	91	288000	21.68 ug/L	98
70)	1,3-Dichloropropane	8.00	76	80218	23.10 ug/L	97
71)	Ethyl Methacrylate	8.18	69	60195	22.99 ug/L	99
72)	Dibromochloromethane	8.19	129	60744	22.03 ug/L	98
73)	2-Hexanone	8.25	43	23804	20.34 ug/L	91
74)	1,2-Dibromoethane	8.41	107	48647	21.19 ug/L	100
75)	n-Butyl Acetate	8.62	43	64098	21.93 ug/L	99
76)	Tetrachloroethene	8.61	164	60667	21.10 ug/L	97
77)	1,1,1,2-Tetrachloroethane	9.15	131	63113	21.53 ug/L	97
78)	Chlorobenzene	9.21	112	181785	21.52 ug/L	98
79)	Ethylbenzene	9.42	106	100186	21.85 ug/L	91
80)	Bromoform	9.60	173	31774	20.79 ug/L	99
81)	(m+p)Xylene	9.61	106	230727	42.72 ug/L	92
82)	o-Xylene	9.92	106	113933	21.79 ug/L	93
83)	Cyclohexanone	9.83	55	22587	454.22 ug/L	97
84)	Styrene	9.87	104	188742	22.72 ug/L	96
85)	Amyl Acetate	9.98	43	78372	20.10 ug/L	95
86)	trans-1,4-Dichloro-2-Buten	10.09	75	16959	19.47 ug/L	94
87)	Isopropylbenzene	10.24	105	283826	20.60 ug/L	98
90)	1,1,2,2-Tetrachloroethane	9.91	83	54301	20.59 ug/L	97
91)	1,2,3-Trichloropropane	10.03	75	36945	20.48 ug/L	98
92)	Bromobenzene	10.37	156	82830	19.81 ug/L	99
93)	n-Propylbenzene	10.60	91	353900	21.89 ug/L	96

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

Quantitation Report (QT Reviewed)

Data File : I:\ACQUDATA\MSVOA6\DATA\071416\D0293.D Vial: 17
Acq On : 14 Jul 2016 3:44 pm Operator: D.LIPANI
Sample : STD #5 - 20 PPB Inst : MS#6
Misc : 8260C / 624 ICAL GCMS#6 Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Jul 15 11:51 2016 Quant Results File: W071416.RES

Quant Method : I:\ACQUDATA\M...\W071416.M (RTE Integrator)
Title : 8260C / 624 WATERS
Last Update : Fri Jul 15 11:49:01 2016
Response via : Initial Calibration
DataAcq Meth : W071416

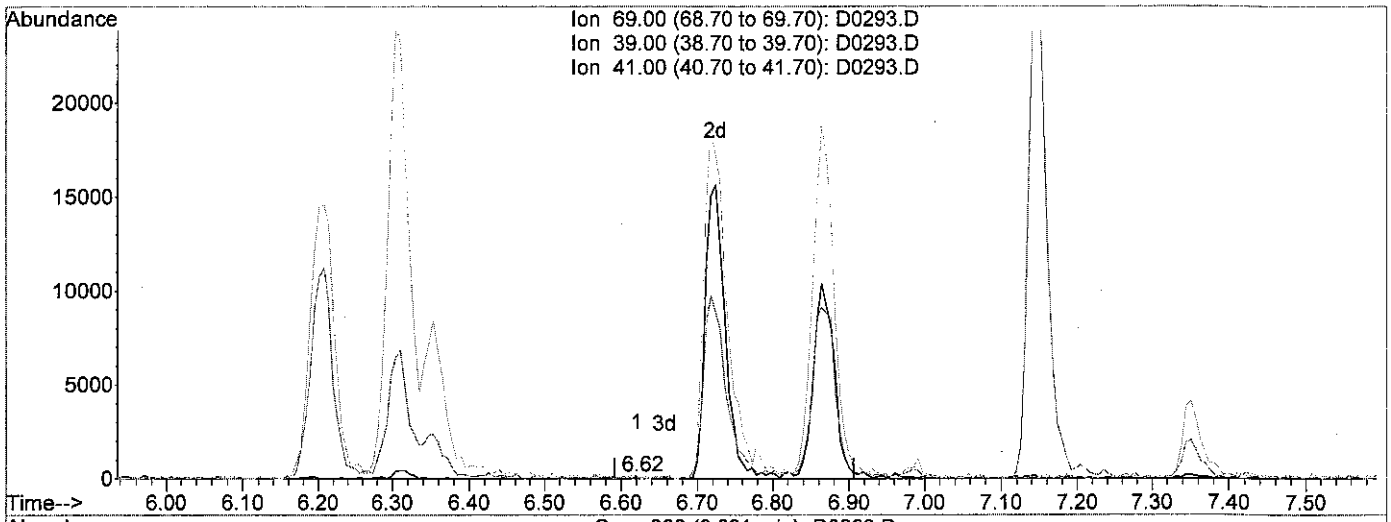
	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
94)	2-Chlorotoluene	10.63	91	198562	20.00 ug/L	100
95)	4-Chlorotoluene	10.71	91	213769	20.56 ug/L	99
96)	1,3,5-Trimethylbenzene	10.87	105	242276	21.30 ug/L	97
97)	tert-Butylbenzene	11.06	119	192543	20.46 ug/L	97
98)	1,2,4-Trimethylbenzene	11.16	105	252776	21.47 ug/L	97
99)	sec-Butylbenzene	11.24	105	294903	21.58 ug/L	96
100)	1,3-Dclbenz	11.25	146	162619	21.60 ug/L	95
101)	1,4-Dclbenz	11.30	146	158185	20.60 ug/L	98
102)	p-Isopropyltoluene	11.40	119	252106	21.33 ug/L	98
103)	1,2-Dclbenz	11.57	146	145933	21.00 ug/L	99
104)	n-Butylbenzene	11.72	91	236026	21.85 ug/L	96
105)	1,2-Dibromo-3-chloropropan	11.94	75	8549	21.00 ug/L	96
106)	Nitrobenzene	12.12	77	2188	30.80 ug/L	92
107)	1,2,4-Tcbenzene	13.01	180	93919	20.89 ug/L	98
108)	Naphthalen	13.19	128	153993	21.28 ug/L	97
109)	Hexachlorobt	13.27	225	45506	20.31 ug/L	99
110)	1,2,3-Tclbenzene	13.34	180	74006	21.06 ug/L	98

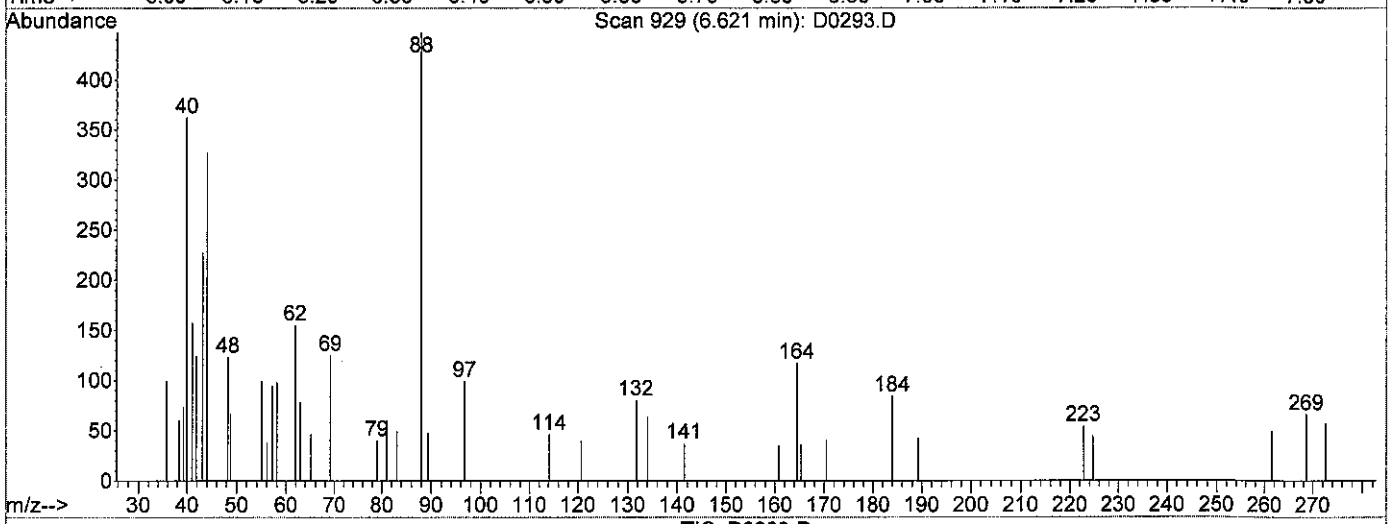
(#) = qualifier out of range (m) = manual integration

Quantitation Report (Qedit)

Data File : I:\ACQUDATA\MSVOA6\DATA\071416\D0293.D Vial: 17
Acq On : 14 Jul 2016 3:44 pm Operator: D.LIPANI
Sample : STD #5 - 20 PPB Inst : MS#6
Misc : 8260C / 624 ICAL GCMS#6 Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Jul 15 11:49 2016 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA6\METHODS\W071416.M (RTE Integrator)
Title : 8260C / 624 WATERS
Last Update : Fri Jul 15 11:49:01 2016
Response via : Multiple Level Calibration





TIC: D0293.D

(59) Methyl Methacrylate

6.62min 0.03ug/L

response 46

Ion	Exp%	Act%
69.00	100	100
39.00	65.90	58.40
41.00	135.70	125.60
0.00	0.00	0.00

Manual Integration:

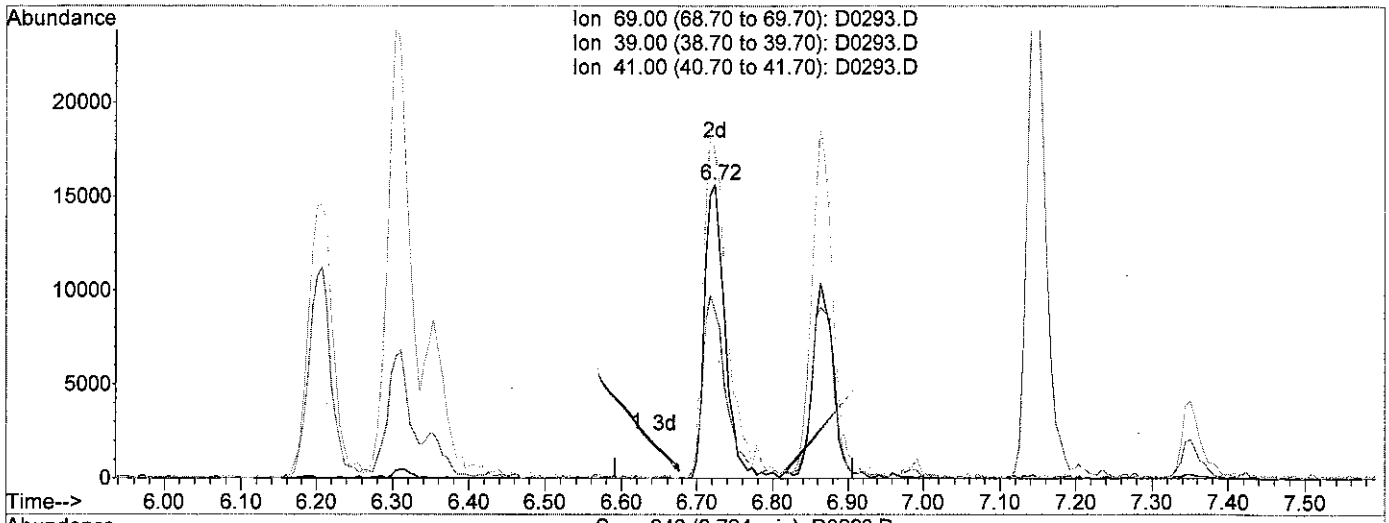
Before

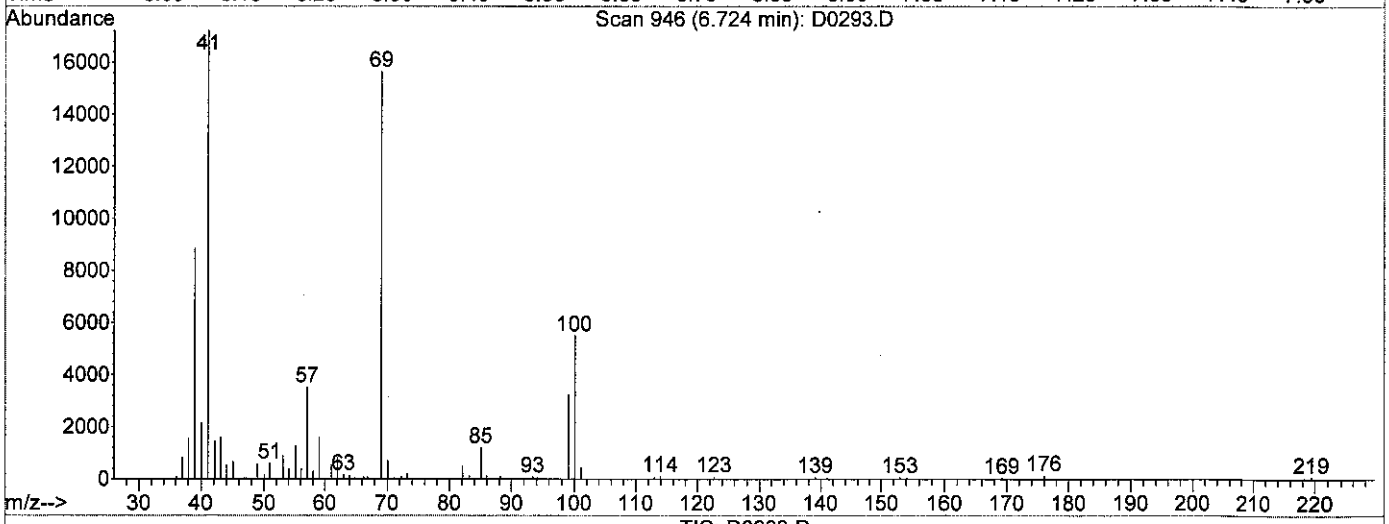
07/15/16

Quantitation Report (Qedit)

Data File : I:\ACQUDATA\MSVOA6\DATA\071416\D0293.D Vial: 17
Acq On : 14 Jul 2016 3:44 pm Operator: D.LIPANI
Sample : STD #5 - 20 PPB Inst : MS#6
Misc : 8260C / 624 ICAL GCMS#6 Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Jul 15 11:51 2016 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA6\METHODS\W071416.M (RTE Integrator)
Title : 8260C / 624 WATERS
Last Update : Fri Jul 15 11:49:01 2016
Response via : Multiple Level Calibration





TIC: D0293.D

(59) Methyl Methacrylate

6.72min 22.14ug/L m

response 29249

Ion	Exp%	Act%
69.00	100	100
39.00	65.90	56.62
41.00	135.70	110.10#
0.00	0.00	0.00

Manual Integration:

After

Peak not found.

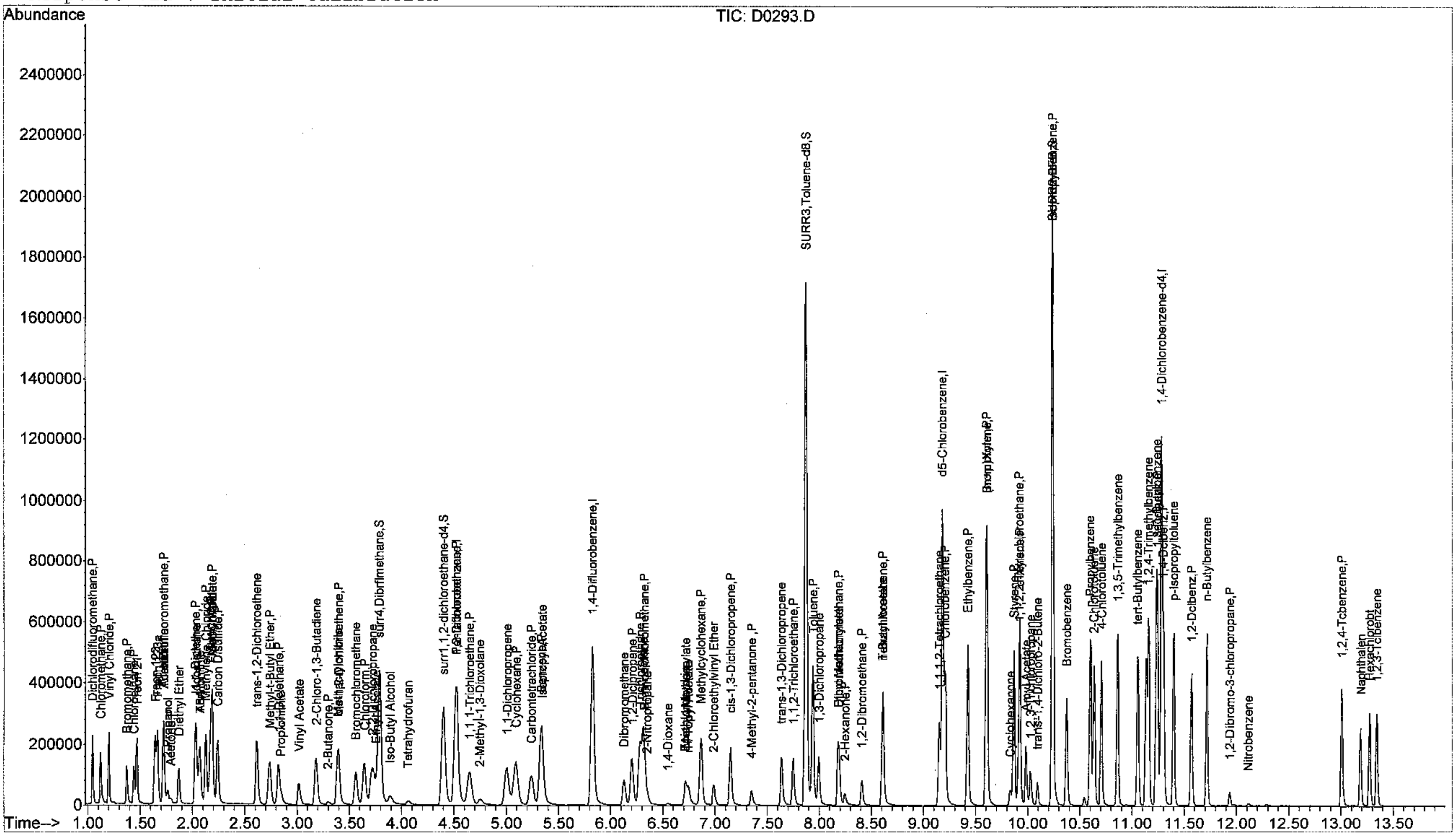
07/15/16 DL

FU 7/18/16

Quantitation Report

Data File : I:\ACQUDATA\MSVOA6\DATA\071416\D0293.D   Vial: 17
Acq On   : 14 Jul 2016   3:44 pm   Operator: D.LIPANI
Sample   : STD #5 - 20 PPB   Inst   : MS#6
Misc   : 8260C / 624 ICAL GCMS#6   Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Jul 15 11:51 2016   Quant Results File: W071416.RES

Method   : I:\ACQUDATA\MSVOA6\METHODS\W071416.M (RTE Integrator)
Title   : 8260C / 624 WATERS
Last Update : Fri Jul 15 11:49:01 2016
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : I:\ACQUDATA\MSVOA6\DATA\071416\D0294.D Vial: 18
Acq On : 14 Jul 2016 4:15 pm Operator: D.LIPANI
Sample : STD #6 - 50 PPB Inst : MS#6
Misc : 8260C / 624 ICAL GCMS#6 Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Jul 15 10:48 2016 Quant Results File: W071416.RES

Quant Method : I:\ACQUDATA\M...\W071416.M (RTE Integrator)
Title : 8260C / 624 WATERS
Last Update : Fri Jul 15 10:45:57 2016
Response via : Initial Calibration
DataAcq Meth : W071416

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.52	168	350004	50.00	ug/L	0.00
40) 1,4-Difluorobenzene	5.82	114	509383	50.00	ug/L	0.00
69) d5-Chlorobenzene	9.18	117	434877	50.00	ug/L	0.00
89) 1,4-Dichlorobenzene-d4	11.28	152	259398	50.00	ug/L	0.00
System Monitoring Compounds						
41) surr4,Dibrflmethane	3.79	113	169846	51.78	ug/L	0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 103.56%			
43) surr1,1,2-dichloroethane-d	4.40	65	150741	51.45	ug/L	0.00
Spiked Amount 50.000	Range 65 - 130		Recovery = 102.90%			
67) SURR3,Toluene-d8	7.87	98	571451	55.76	ug/L	0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 111.52%			
88) SURR2,BFB	10.24	95	227459	54.44	ug/L	0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 108.88%			

Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.04	85	245057	48.80	ug/L	100
3) Chloromethane	1.12	50	241636	47.29	ug/L	100
4) Vinyl Chloride	1.20	62	285396	49.69	ug/L	100
5) Bromomethane	1.37	94	133239	52.82	ug/L	100
6) Chloroethane	1.44	64	141104	49.44	ug/L	100
7) Freon 21	1.47	67	290812	45.68	ug/L	100
8) Freon 123	1.64	83	246776	46.32	ug/L	100
9) Freon 123a	1.66	67	201340	46.84	ug/L	100
10) Acrolein	1.72	56	83437	254.51	ug/L	100
11) Trichlorofluoromethane	1.73	101	262343	49.63	ug/L	100
12) Acetonitrile	1.73	41	54839	235.72	ug/L	100
13) 2-Propanol	1.76	45	93868	986.81	ug/L	100
14) Acetone	1.79	43	25084	51.22	ug/L	100
15) Diethyl Ether	1.87	59	116660	50.14	ug/L	100
16) 1,1-Diclethene	2.03	96	170810	50.37	ug/L	100
17) Iodomethane	2.04	142	226639	54.04	ug/L	100
18) TBA	2.06	59	155609	1055.10	ug/L	100
19) Acrylonitrile	2.07	53	197420	266.30	ug/L	100
20) Methylene Chloride	2.13	84	180067	48.92	ug/L	100
21) Freon 113	2.18	101	184077	51.94	ug/L	100
22) Methyl Acetate	2.18	43	73233	47.44	ug/L	100
23) Allyl Chloride	2.19	76	105230	52.64	ug/L	100
24) Carbon Disulfide	2.24	76	493322	43.64	ug/L	100
25) trans-1,2-Dichloroethene	2.62	96	180023	50.32	ug/L	100
26) Methyl-t-Butyl Ether	2.74	73	343428	51.54	ug/L	100
27) 1,1-Diclethane	2.83	63	294689	52.80	ug/L	100
28) Propionitrile	2.85	54	64747	277.61	ug/L	100
29) Vinyl Acetate	3.01	43	256890	54.02	ug/L	100
30) 2-Chloro-1,3-Butadiene	3.18	53	241254	48.44	ug/L	100
31) 2-Butanone	3.29	43	38054	47.73	ug/L	100
32) Methacrylonitrile	3.38	67	41075	51.91	ug/L	100
33) cis-1,2-Dichloroethene	3.40	96	183515	50.24	ug/L	100
34) Bromochloromethane	3.57	128	83361	52.80	ug/L	100
35) Chloroform	3.65	83	299467	50.00	ug/L	100
36) 2,2-Dichloropropane	3.72	77	252071	51.65	ug/L	100

DL 7/15/16

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

Quantitation Report (QT Reviewed)

Data File : I:\ACQUDATA\MSVOA6\DATA\071416\D0294.D Vial: 18
Acq On : 14 Jul 2016 4:15 pm Operator: D.LIPANI
Sample : STD #6 - 50 PPB Inst : MS#6
Misc : 8260C / 624 ICAL GCMS#6 Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Jul 15 10:48 2016 Quant Results File: W071416.RES

Quant Method : I:\ACQUDATA\M...\W071416.M (RTE Integrator)
Title : 8260C / 624 WATERS
Last Update : Fri Jul 15 10:45:57 2016
Response via : Initial Calibration
DataAcq Meth : W071416

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
37)	Ethyl Acetate	3.74	43	183926	112.85 ug/L	100
38)	Tetrahydrofuran	4.06	42	26039	49.49 ug/L	100
39)	1,1,1-Trichloroethane	4.65	97	245145	51.16 ug/L	100
42)	Iso-Butyl Alcohol	3.89	43	69727	1040.55 ug/L	100
44)	1,2-Dichloroethane	4.52	64	53534	47.89 ug/L	100
45)	2-Methyl-1,3-Dioxolane	4.74	73	53918	263.09 ug/L	100
46)	1,1-Dichloropropene	5.00	75	225513	51.56 ug/L	100
47)	Cyclohexane	5.09	56	260652	50.34 ug/L	100
48)	Carbontetrachloride	5.24	119	209910	50.05 ug/L	100
49)	Benzene	5.34	78	649821	50.88 ug/L	100
50)	Isopropyl Acetate	5.35	43	201560	55.60 ug/L	100
51)	Dibromomethane	6.13	93	79246	50.09 ug/L	100
52)	1,2-Diclpropane	6.20	63	172504	52.57 ug/L	100
53)	n-Heptane	6.31	43	210105	54.39 ug/L	100
54)	Trichloroethene	6.28	130	179938	53.38 ug/L	100
55)	Bromodichloromethane	6.33	83	213580	51.33 ug/L	100
56)	2-Nitropropane	6.35	41	33914	88.51 ug/L	100
57)	1,4-Dioxane	6.54	88	15535	1060.29 ug/L	100
58)	Epichlorohydrin	6.71	57	43445	263.10 ug/L	100
59)	Methyl Methacrylate	6.72	69	71215	54.27 ug/L	100
60)	n-Propyl Acetate	6.74	43	146668	59.25 ug/L	100
61)	Methylcyclohexane	6.86	55	185190	49.48 ug/L	100
62)	2-Chloroethylvinyl Ether	6.99	63	75142	51.07 ug/L	100
63)	cis-1,3-Dichloropropene	7.15	75	253627	54.57 ug/L	100
64)	4-Methyl-2-pentanone	7.34	43	83455	51.80 ug/L	100
65)	trans-1,3-Dichloropropene	7.64	75	191995	51.95 ug/L	100
66)	1,1,2-Trichloroethane	7.75	97	111120	51.37 ug/L	100
68)	Toluene	7.94	91	618652	46.88 ug/L	100
70)	1,3-Dichloropropane	7.99	76	183389	53.21 ug/L	100
71)	Ethyl Methacrylate	8.18	69	143840	55.36 ug/L	100
72)	Dibromochloromethane	8.19	129	148539	54.29 ug/L	100
73)	2-Hexanone	8.24	43	52685	45.37 ug/L	100
74)	1,2-Dibromoethane	8.41	107	114712	50.35 ug/L	100
75)	n-Butyl Acetate	8.62	43	157241	57.45 ug/L	100
76)	Tetrachloroethene	8.61	164	144550	50.67 ug/L	100
77)	1,1,1,2-Tetrachloroethane	9.15	131	148587	51.08 ug/L	100
78)	Chlorobenzene	9.21	112	411577	49.09 ug/L	100
79)	Ethylbenzene	9.42	106	229795	50.49 ug/L	100
80)	Bromoform	9.60	173	78719	51.89 ug/L	100
81)	(m+p)Xylene	9.61	106	517667	96.63 ug/L	100
82)	o-Xylene	9.92	106	268333	51.70 ug/L	100
83)	Cyclohexanone	9.83	55	54696	1108.29 ug/L	100
84)	Styrene	9.87	104	417068	50.59 ug/L	100
85)	Amyl Acetate	9.98	43	201592	52.95 ug/L	100
86)	trans-1,4-Dichloro-2-Buten	10.09	75	45467	52.61 ug/L	100
87)	Isopropylbenzene	10.24	105	633558	46.34 ug/L	100
90)	1,1,2,2-Tetrachloroethane	9.91	83	134069	50.85 ug/L	100
91)	1,2,3-Trichloropropane	10.03	75	91119	50.53 ug/L	100
92)	Bromobenzene	10.37	156	201876	48.30 ug/L	100
93)	n-Propylbenzene	10.60	91	750163	46.42 ug/L	100

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

Quantitation Report (QT Reviewed)

Data File : I:\ACQUDATA\MSVOA6\DATA\071416\D0294.D Vial: 18
Acq On : 14 Jul 2016 4:15 pm Operator: D.LIPANI
Sample : STD #6 - 50 PPB Inst : MS#6
Misc : 8260C / 624 ICAL GCMS#6 Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Jul 15 10:48 2016 Quant Results File: W071416.RES

Quant Method : I:\ACQUDATA\M...\W071416.M (RTE Integrator)
Title : 8260C / 624 WATERS
Last Update : Fri Jul 15 10:45:57 2016
Response via : Initial Calibration
DataAcq Meth : W071416

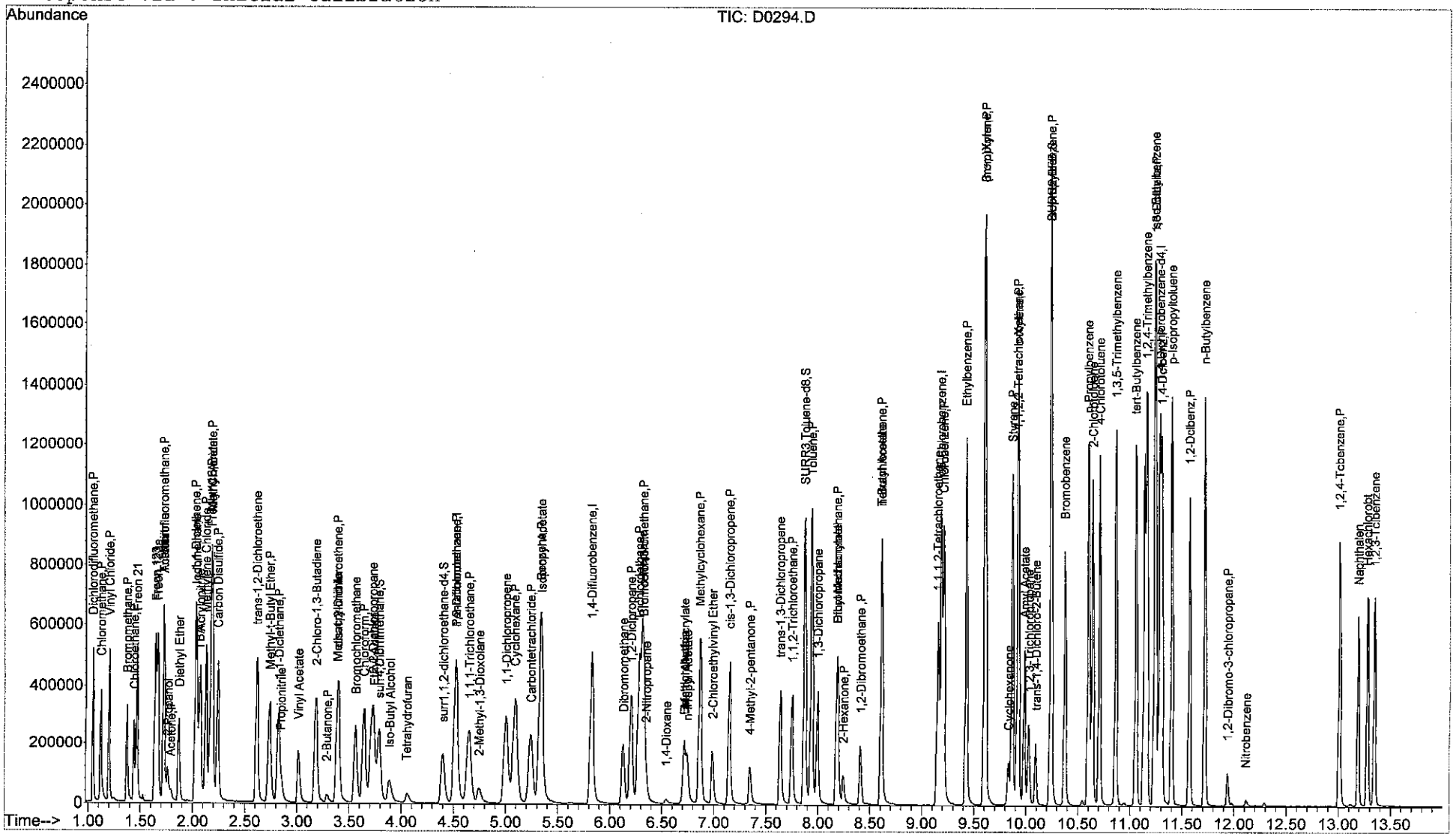
	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
94)	2-Chlorotoluene	10.64	91	457757	46.12 ug/L	100
95)	4-Chlorotoluene	10.71	91	504529	48.68 ug/L	100
96)	1,3,5-Trimethylbenzene	10.87	105	526561	46.30 ug/L	100
97)	tert-Butylbenzene	11.05	119	452747	48.11 ug/L	100
98)	1,2,4-Trimethylbenzene	11.16	105	565904	48.08 ug/L	100
99)	sec-Butylbenzene	11.24	105	647390	47.38 ug/L	100
100)	1,3-Dclbenz	11.25	146	372793	49.53 ug/L	100
101)	1,4-Dclbenz	11.30	146	374348	48.76 ug/L	100
102)	p-Isopropyltoluene	11.40	119	583373	49.37 ug/L	100
103)	1,2-Dclbenz	11.57	146	334893	48.19 ug/L	100
104)	n-Butylbenzene	11.72	91	540633	50.07 ug/L	100
105)	1,2-Dibromo-3-chloropropan	11.94	75	19552	48.04 ug/L	100
106)	Nitrobenzene	12.11	77	5653	79.60 ug/L	100
107)	1,2,4-Tcbenzene	13.01	180	228451	50.84 ug/L	100
108)	Naphthalen	13.19	128	367601	50.82 ug/L	100
109)	Hexachlorobt	13.28	225	117538	52.48 ug/L	100
110)	1,2,3-Tclbenzene	13.35	180	181606	51.69 ug/L	100

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

Quantitation Report

Data File : I:\ACQUDATA\MSVOA6\DATA\071416\D0294.D Vial: 18
Acq On : 14 Jul 2016 4:15 pm Operator: D.LIPANI
Sample : STD #6 - 50 PPB Inst : MS#6
Misc : 8260C / 624 ICAL GCMS#6 Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Jul 15 10:48 2016 Quant Results File: W071416.RES

Method : I:\ACQUDATA\MSVOA6\METHODS\W071416.M (RTE Integrator)
Title : 8260C / 624 WATERS
Last Update : Fri Jul 15 10:51:05 2016
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : I:\ACQUDATA\MSVOA6\DATA\071416\D0295.D Vial: 19
Acq On : 14 Jul 2016 4:46 pm Operator: D.LIPANI
Sample : STD #7 - 100 PPB Inst : MS#6
Misc : 8260C / 624 ICAL GCMS#6 Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Jul 15 11:53 2016 Quant Results File: W071416.RES

Quant Method : I:\ACQUDATA\M...\W071416.M (RTE Integrator)
Title : 8260C / 624 WATERS
Last Update : Fri Jul 15 11:52:38 2016
Response via : Initial Calibration
DataAcq Meth : W071416

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.53	168	365429	50.00	ug/L	0.00
40) 1,4-Difluorobenzene	5.82	114	536535	50.00	ug/L	0.00
69) d5-Chlorobenzene	9.18	117	462659	50.00	ug/L	0.00
89) 1,4-Dichlorobenzene-d4	11.28	152	276686	50.00	ug/L	0.00
System Monitoring Compounds						
41) surr4,Dibrflmethane	3.79	113	424301	122.81	ug/L	0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 245.62%#			
43) surr1,1,2-dichloroethane-d	4.40	65	370518	120.06	ug/L	0.00
Spiked Amount 50.000	Range 65 - 130		Recovery = 240.12%#			
67) SURR3,Toluene-d8	7.87	98	1214004	112.48	ug/L	0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 224.96%#			
88) SURR2,BFB	10.24	95	528256	118.84	ug/L	0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 237.68%#			

Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.04	85	434559	82.88	ug/L	94
3) Chloromethane	1.12	50	439656	82.01	ug/L	95
4) Vinyl Chloride	1.20	62	514719	85.84	ug/L	96
5) Bromomethane	1.37	94	285906	108.55	ug/L	98
6) Chloroethane	1.44	64	274389	91.47	ug/L	95
7) Freon 21	1.47	67	566214	85.18	ug/L	98
8) Freon 123	1.64	83	511016	91.87	ug/L	98
9) Freon 123a	1.66	67	416889	93.69	ug/L	91
10) Acrolein	1.72	56	169413	494.95	ug/L	94
11) Trichlorofluoromethane	1.72	101	483081	87.54	ug/L	98
12) Acetonitrile	1.72	41	110987	456.93	ug/L	97
13) 2-Propanol	1.76	45	192204	1935.30	ug/L	95
14) Acetone	1.79	43	54822	107.23	ug/L	97
15) Diethyl Ether	1.87	59	223090	92.32	ug/L	93
16) 1,1-Diclethene	2.03	96	325426	91.91	ug/L	99
17) Iodomethane	2.04	142	479608	108.58	ug/L	96
18) TBA	2.07	59	306088	1988.20	ug/L	99
19) Acrylonitrile	2.07	53	373715	482.82	ug/L	95
20) Methylene Chloride	2.13	84	342891	89.22	ug/L	98
21) Freon 113	2.17	101	357064	96.50	ug/L	99
22) Methyl Acetate	2.18	43	158291	98.24	ug/L	99
23) Allyl Chloride	2.19	76	214778	102.90	ug/L	92
24) Carbon Disulfide	2.24	76	976796	82.75	ug/L	96
25) trans-1,2-Dichloroethene	2.62	96	353457	94.63	ug/L	97
26) Methyl-t-Butyl Ether	2.74	73	652010	93.71	ug/L	96
27) 1,1-Diclethane	2.83	63	557274	95.63	ug/L	97
28) Propionitrile	2.86	54	123415	506.82	ug/L	97
29) Vinyl Acetate	3.01	43	527965	106.42	ug/L	99
30) 2-Chloro-1,3-Butadiene	3.18	53	518074	99.62	ug/L	94
31) 2-Butanone	3.29	43	86170	103.64	ug/L	96
32) Methacrylonitrile	3.38	67	83233	100.74	ug/L	94
33) cis-1,2-Dichloroethene	3.40	96	362652	95.10	ug/L	97
34) Bromochloromethane	3.56	128	154092	93.47	ug/L #	90
35) Chloroform	3.65	83	589235	94.23	ug/L	98
36) 2,2-Dichloropropane	3.72	77	490698	96.31	ug/L	97

DL 7/15/16

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

Quantitation Report (QT Reviewed)

Data File : I:\ACQUDATA\MSVOA6\DATA\071416\D0295.D Vial: 19
Acq On : 14 Jul 2016 4:46 pm Operator: D.LIPANI
Sample : STD #7 - 100 PPB Inst : MS#6
Misc : 8260C / 624 ICAL GCMS#6 Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Jul 15 11:53 2016 Quant Results File: W071416.RES

Quant Method : I:\ACQUDATA\M...\W071416.M (RTE Integrator)
Title : 8260C / 624 WATERS
Last Update : Fri Jul 15 11:52:38 2016
Response via : Initial Calibration
DataAcq Meth : W071416

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
37) Ethyl Acetate	3.74	43	386089	226.89 ug/L	99
38) Tetrahydrofuran	4.05	42	52894	96.37 ug/L	81
39) 1,1,1-Trichloroethane	4.65	97	489881	97.88 ug/L	99
42) Iso-Butyl Alcohol	3.89	43	145768	2076.90 ug/L	97
44) 1,2-Dichloroethane	4.52	64	110672	94.00 ug/L	92
45) 2-Methyl-1,3-Dioxolane	4.75	73	114594	530.85 ug/L	92
46) 1,1-Dichloropropene	5.01	75	438376	94.91 ug/L	98
47) Cyclohexane	5.09	56	547287	100.40 ug/L	96
48) Carbontetrachloride	5.24	119	422056	95.54 ug/L	98
49) Benzene	5.34	78	1231374	91.54 ug/L	95
50) Isopropyl Acetate	5.34	43	415139	108.64 ug/L	96
51) Dibromomethane	6.13	93	167872	100.73 ug/L	95
52) 1,2-Diclpropane	6.21	63	331492	95.91 ug/L	97
53) n-Heptane	6.31	43	405698	99.71 ug/L	97
54) Trichloroethene	6.28	130	352058	99.15 ug/L	99
55) Bromodichloromethane	6.33	83	418158	95.39 ug/L	99
56) 2-Nitropropane	6.35	41	81870	202.85 ug/L	88
57) 1,4-Dioxane	6.54	88	28487	1846.53 ug/L	92
58) Epichlorohydrin	6.70	57	89972	517.29 ug/L	93
59) Methyl Methacrylate	6.72	69	144836	104.80 ug/L	92
60) n-Propyl Acetate	6.75	43	293269	112.90 ug/L	93
61) Methylcyclohexane	6.87	55	390869	99.15 ug/L	98
62) 2-Chloroethylvinyl Ether	6.99	63	158210	102.08 ug/L	94
63) cis-1,3-Dichloropropene	7.15	75	478899	97.83 ug/L	98
64) 4-Methyl-2-pentanone	7.34	43	181275	106.82 ug/L	100
65) trans-1,3-Dichloropropene	7.64	75	376508	96.72 ug/L	99
66) 1,1,2-Trichloroethane	7.75	97	219540	96.35 ug/L	99
68) Toluene	7.94	91	1090730	78.48 ug/L	95
70) 1,3-Dichloropropane	7.99	76	360528	98.32 ug/L	99
71) Ethyl Methacrylate	8.18	69	277181	100.27 ug/L	99
72) Dibromochloromethane	8.19	129	288426	99.08 ug/L	96
73) 2-Hexanone	8.24	43	126321	102.24 ug/L	94
74) 1,2-Dibromoethane	8.41	107	229879	94.83 ug/L	99
75) n-Butyl Acetate	8.61	43	317669	102.95 ug/L	99
76) Tetrachloroethene	8.61	164	283090	93.27 ug/L	98
77) 1,1,1,2-Tetrachloroethane	9.15	131	295791	95.58 ug/L	98
78) Chlorobenzene	9.21	112	758017	84.97 ug/L	96
79) Ethylbenzene	9.42	106	432782	89.39 ug/L #	87
80) Bromoform	9.60	173	170406	105.59 ug/L	99
81) (m+p)Xylene	9.61	106	961883	168.67 ug/L	90
82) o-Xylene	9.93	106	527665	95.56 ug/L	91
83) Cyclohexanone	9.83	55	105576	2010.80 ug/L	98
84) Styrene	9.87	104	788760	89.93 ug/L	97
85) Amyl Acetate	9.98	43	424514	103.12 ug/L	98
86) trans-1,4-Dichloro-2-Buten	10.09	75	96301	104.74 ug/L	98
87) Isopropylbenzene	10.24	105	1100835	75.68 ug/L	94
90) 1,1,2,2-Tetrachloroethane	9.92	83	268589	95.51 ug/L	100
91) 1,2,3-Trichloropropane	10.03	75	188029	97.76 ug/L	99
92) Bromobenzene	10.38	156	396373	88.90 ug/L	99
93) n-Propylbenzene	10.60	91	1266257	73.46 ug/L	92

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

Quantitation Report (QT Reviewed)

Data File : I:\ACQUDATA\MSVOA6\DATA\071416\D0295.D Vial: 19
Acq On : 14 Jul 2016 4:46 pm Operator: D.LIPANI
Sample : STD #7 - 100 PPB Inst : MS#6
Misc : 8260C / 624 ICAL GCMS#6 Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Jul 15 11:53 2016 Quant Results File: W071416.RES

Quant Method : I:\ACQUDATA\M...\W071416.M (RTE Integrator)
Title : 8260C / 624 WATERS
Last Update : Fri Jul 15 11:52:38 2016
Response via : Initial Calibration
DataAcq Meth : W071416

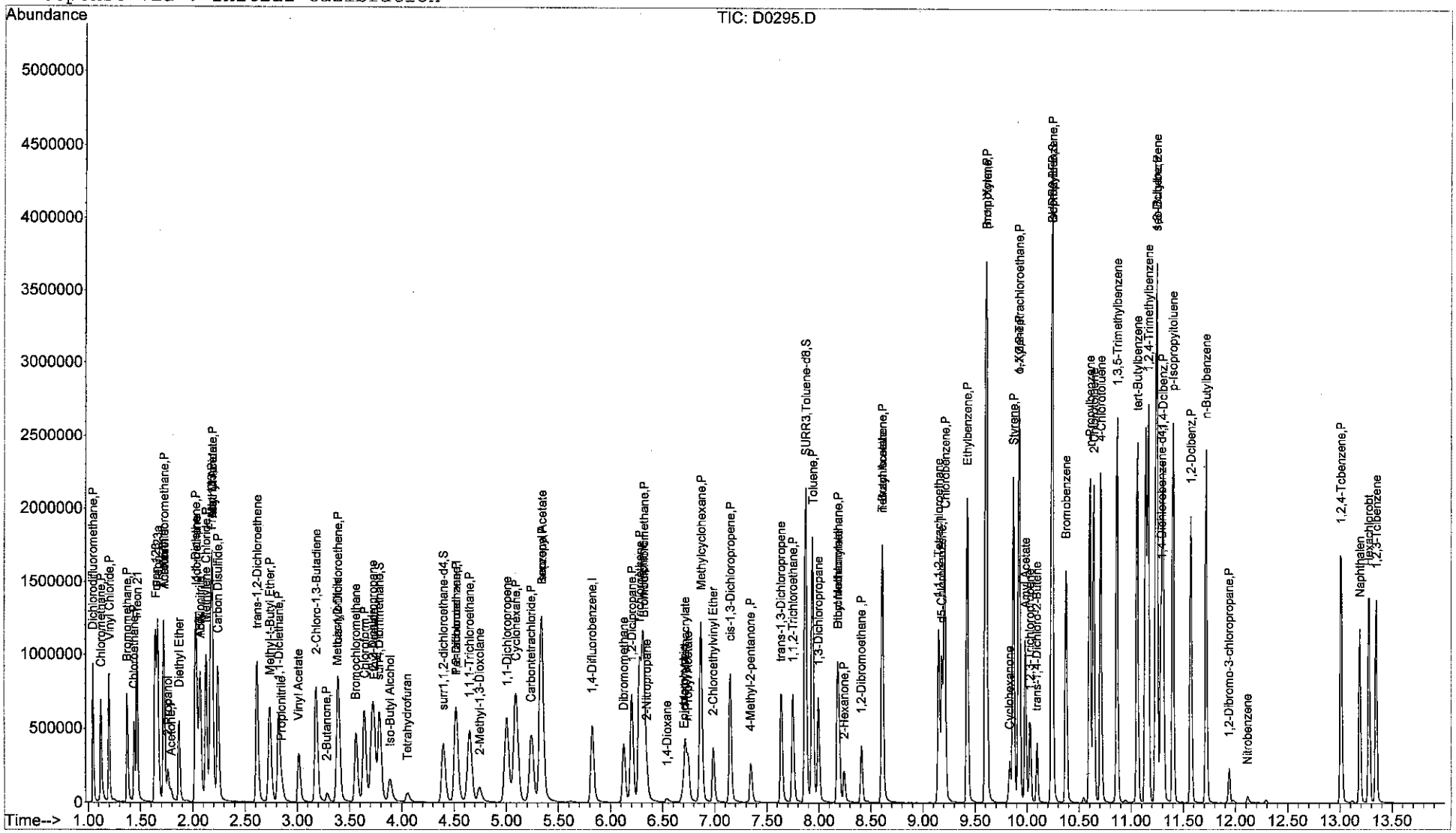
	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
94)	2-Chlorotoluene	10.64	91	851906	80.84 ug/L	95
95)	4-Chlorotoluene	10.71	91	913962	82.44 ug/L	94
96)	1,3,5-Trimethylbenzene	10.86	105	996336	82.14 ug/L	94
97)	tert-Butylbenzene	11.06	119	854140	85.09 ug/L	95
98)	1,2,4-Trimethylbenzene	11.16	105	1023670	81.54 ug/L	93
99)	sec-Butylbenzene	11.24	105	1151054	78.98 ug/L	94
100)	1,3-Dclbenz	11.25	146	705227	87.85 ug/L	97
101)	1,4-Dclbenz	11.31	146	687939	84.00 ug/L	96
102)	p-Isopropyltoluene	11.40	119	1019658	80.90 ug/L	92
103)	1,2-Dclbenz	11.57	146	649864	87.68 ug/L	97
104)	n-Butylbenzene	11.72	91	944006	81.97 ug/L	94
105)	1,2-Dibromo-3-chloropropan	11.94	75	41431	95.44 ug/L	95
106)	Nitrobenzene	12.12	77	15948	210.54 ug/L	80
107)	1,2,4-Tcbenzene	13.01	180	441991	92.21 ug/L	98
108)	Naphthalen	13.19	128	675203	87.51 ug/L	97
109)	Hexachlorobt	13.28	225	239596	100.29 ug/L	99
110)	1,2,3-Tclbenzene	13.35	180	360235	96.12 ug/L	99

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

Quantitation Report

Data File : I:\ACQUDATA\MSVOA6\DATA\071416\D0295.D Vial: 19
Acq On : 14 Jul 2016 4:46 pm Operator: D.LIPANI
Sample : STD #7 - 100 PPB Inst : MS#6
Misc : 8260C / 624 ICAL GCMS#6 Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Jul 15 11:53 2016 Quant Results File: W071416.RES

Method : I:\ACQUDATA\MSVOA6\METHODS\W071416.M (RTE Integrator)
Title : 8260C / 624 WATERS
Last Update : Fri Jul 15 11:55:19 2016
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : I:\ACQUDATA\MSVOA6\DATA\071416\D0296.D Vial: 20
Acq On : 14 Jul 2016 5:20 pm Operator: D.LIPANI
Sample : STD #8 - 150 PPB Inst : MS#6
Misc : 8260C / 624 ICAL GCMS#6 Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Jul 15 12:44 2016 Quant Results File: W071416.RES

Quant Method : I:\ACQUDATA\M...\W071416.M (RTE Integrator)
Title : 8260C / 624 WATERS
Last Update : Fri Jul 15 11:57:12 2016
Response via : Initial Calibration
DataAcq Meth : W071416

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.53	168	375035	50.00	ug/L	0.00
40) 1,4-Difluorobenzene	5.83	114	538737	50.00	ug/L	0.00
69) d5-Chlorobenzene	9.19	117	449041	50.00	ug/L	0.00
89) 1,4-Dichlorobenzene-d4	11.29	152	282790	50.00	ug/L	0.00
System Monitoring Compounds						
41) surr4,Dibrflmethane	3.79	113	513505	148.02	ug/L	0.00
Spiked Amount 50.000 Range 89 - 119 Recovery = 296.04%#						
43) surr1,1,2-dichloroethane-d	4.40	65	455436	146.97	ug/L	0.00
Spiked Amount 50.000 Range 65 - 130 Recovery = 293.94%#						
67) SURR3,Toluene-d8	7.87	98	1414421	130.52	ug/L	0.00
Spiked Amount 50.000 Range 87 - 121 Recovery = 261.04%#						
88) SURR2,BFB	10.24	95	663623	153.82	ug/L	0.00
Spiked Amount 50.000 Range 85 - 122 Recovery = 307.64%#						
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.04	85	598148	111.15	ug/L	90
3) Chloromethane	1.12	50	648644	117.89	ug/L	91
4) Vinyl Chloride	1.20	62	716875	112.89	ug/L	91
5) Bromomethane	1.37	94	428010	158.34	ug/L	97
6) Chloroethane	1.44	64	389878	126.65	ug/L	92
7) Freon 21	1.47	67	797402	116.88	ug/L	92
8) Freon 123	1.65	83	735734	128.88	ug/L	92
9) Freon 123a	1.66	67	619378	135.63	ug/L	93
10) Acrolein	1.72	56	256831	731.13	ug/L	96
11) Trichlorofluoromethane	1.72	101	689896	121.81	ug/L	94
12) Acetonitrile	1.72	41	164989	661.85	ug/L	94
13) 2-Propanol	1.77	45	289885	2844.09	ug/L	99
14) Acetone	1.79	43	75694	144.27	ug/L	93
15) Diethyl Ether	1.87	59	331546	133.68	ug/L	97
16) 1,1-Diclethene	2.03	96	477502	131.40	ug/L	95
17) Iodomethane	2.04	142	680022	149.65	ug/L	94
18) TBA	2.06	59	461540	2921.16	ug/L	100
19) Acrylonitrile	2.08	53	543008	683.57	ug/L	97
20) Methylene Chloride	2.13	84	512759	130.00	ug/L	92
21) Freon 113	2.17	101	530090	139.59	ug/L	97
22) Methyl Acetate	2.18	43	237606	143.68	ug/L	98
23) Allyl Chloride	2.19	76	301018	140.53	ug/L #	82
24) Carbon Disulfide	2.24	76	1335245	110.23	ug/L	91
25) trans-1,2-Dichloroethene	2.62	96	512292	133.63	ug/L	96
26) Methyl-t-Butyl Ether	2.74	73	961390	134.64	ug/L	93
27) 1,1-Diclethane	2.83	63	821476	137.36	ug/L	96
28) Propionitrile	2.86	54	189630	758.80	ug/L	99
29) Vinyl Acetate	3.01	43	786196	154.41	ug/L	96
30) 2-Chloro-1,3-Butadiene	3.18	53	757418	141.91	ug/L	94
31) 2-Butanone	3.29	43	131474	154.07	ug/L	96
32) Methacrylonitrile	3.38	67	126882	149.64	ug/L	96
33) cis-1,2-Dichloroethene	3.40	96	545286	139.33	ug/L	95
34) Bromochloromethane	3.57	128	225485	133.28	ug/L	97
35) Chloroform	3.65	83	853951	133.07	ug/L	96
36) 2,2-Dichloropropane	3.72	77	734881	140.54	ug/L	96

DL 7/15/16

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

Quantitation Report (QT Reviewed)

Data File : I:\ACQUDATA\MSVOA6\DATA\071416\D0296.D Vial: 20
Acq On : 14 Jul 2016 5:20 pm Operator: D.LIPANI
Sample : STD #8 - 150 PPB Inst : MS#6
Misc : 8260C / 624 ICAL GCMS#6 Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Jul 15 12:44 2016 Quant Results File: W071416.RES

Quant Method : I:\ACQUDATA\M...\W071416.M (RTE Integrator)
Title : 8260C / 624 WATERS
Last Update : Fri Jul 15 11:57:12 2016
Response via : Initial Calibration
DataAcq Meth : W071416

	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
37)	Ethyl Acetate	3.74	43	583962	334.38 ug/L		97
38)	Tetrahydrofuran	4.05	42	78965	140.18 ug/L		96
39)	1,1,1-Trichloroethane	4.65	97	731905	142.49 ug/L		99
42)	Iso-Butyl Alcohol	3.89	43	213574	3030.56 ug/L		97
44)	1,2-Dichloroethane	4.52	64	162495	137.45 ug/L		95
45)	2-Methyl-1,3-Dioxolane	4.75	73	184136	849.52 ug/L		95
46)	1,1-Dichloropropene	5.01	75	657958	141.86 ug/L		97
47)	Cyclohexane	5.09	56	811980	148.34 ug/L		95
48)	Carbontetrachloride	5.25	119	637639	143.75 ug/L		98
49)	Benzene	5.34	78	1710720	126.66 ug/L		94
50)	Isopropyl Acetate	5.35	43	618371	161.16 ug/L		96
51)	Dibromomethane	6.13	93	243698	145.64 ug/L		98
52)	1,2-Diclpropane	6.21	63	492129	141.80 ug/L		90
53)	n-Heptane	6.31	43	603536	147.72 ug/L		94
54)	Trichloroethene	6.28	130	527023	147.82 ug/L		98
55)	Bromodichloromethane	6.33	83	624294	141.83 ug/L		98
56)	2-Nitropropane	6.35	41	127113	313.65 ug/L		82
57)	1,4-Dioxane	6.53	88	44457	2869.92 ug/L		92
58)	Epichlorohydrin	6.70	57	135122	773.70 ug/L		95
59)	Methyl Methacrylate	6.72	69	214337	154.46 ug/L		94
60)	n-Propyl Acetate	6.74	43	434312	166.52 ug/L		93
61)	Methylcyclohexane	6.87	55	584565	147.68 ug/L		99
62)	2-Chloroethylvinyl Ether	6.98	63	235565	151.38 ug/L		99
63)	cis-1,3-Dichloropropene	7.15	75	692061	140.80 ug/L		95
64)	4-Methyl-2-pentanone	7.34	43	271281	159.21 ug/L		99
65)	trans-1,3-Dichloropropene	7.64	75	554843	141.95 ug/L		97
66)	1,1,2-Trichloroethane	7.75	97	320381	140.04 ug/L		98
68)	Toluene	7.94	91	1485120	106.42 ug/L		92
70)	1,3-Dichloropropane	7.99	76	531947	149.47 ug/L		99
71)	Ethyl Methacrylate	8.18	69	414584	154.53 ug/L		98
72)	Dibromochloromethane	8.19	129	431141	152.60 ug/L		97
73)	2-Hexanone	8.24	43	190671	159.00 ug/L		94
74)	1,2-Dibromoethane	8.41	107	340673	144.80 ug/L		99
75)	n-Butyl Acetate	8.61	43	476432	159.09 ug/L		98
76)	Tetrachloroethene	8.61	164	422921	143.57 ug/L		97
77)	1,1,1,2-Tetrachloroethane	9.16	131	453150	150.87 ug/L		98
78)	Chlorobenzene	9.21	112	1053922	121.72 ug/L		93
79)	Ethylbenzene	9.43	106	644533	137.16 ug/L	#	74
80)	Bromoform	9.61	173	267111	170.54 ug/L		99
81)	(m+p)Xylene	9.61	106	1385577	250.34 ug/L	#	82
82)	o-Xylene	9.93	106	758277	141.49 ug/L	#	85
83)	Cyclohexanone	9.83	55	161967	3178.37 ug/L		95
84)	Styrene	9.87	104	1092452	128.34 ug/L		94
85)	Amyl Acetate	9.98	43	605646	151.58 ug/L		96
86)	trans-1,4-Dichloro-2-Buten	10.10	75	146929	164.65 ug/L		96
87)	Isopropylbenzene	10.24	105	1513678	107.21 ug/L		86
90)	1,1,2,2-Tetrachloroethane	9.92	83	411959	143.33 ug/L		99
91)	1,2,3-Trichloropropane	10.03	75	278519	141.69 ug/L		99
92)	Bromobenzene	10.38	156	575900	126.38 ug/L		98
93)	n-Propylbenzene	10.60	91	1634809	92.80 ug/L		84

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

Quantitation Report (QT Reviewed)

Data File : I:\ACQUDATA\MSVOA6\DATA\071416\D0296.D Vial: 20
Acq On : 14 Jul 2016 5:20 pm Operator: D.LIPANI
Sample : STD #8 - 150 PPB Inst : MS#6
Misc : 8260C / 624 ICAL GCMS#6 Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Jul 15 12:44 2016 Quant Results File: W071416.RES

Quant Method : I:\ACQUDATA\M...\W071416.M (RTE Integrator)
Title : 8260C / 624 WATERS
Last Update : Fri Jul 15 11:57:12 2016
Response via : Initial Calibration
DataAcq Meth : W071416

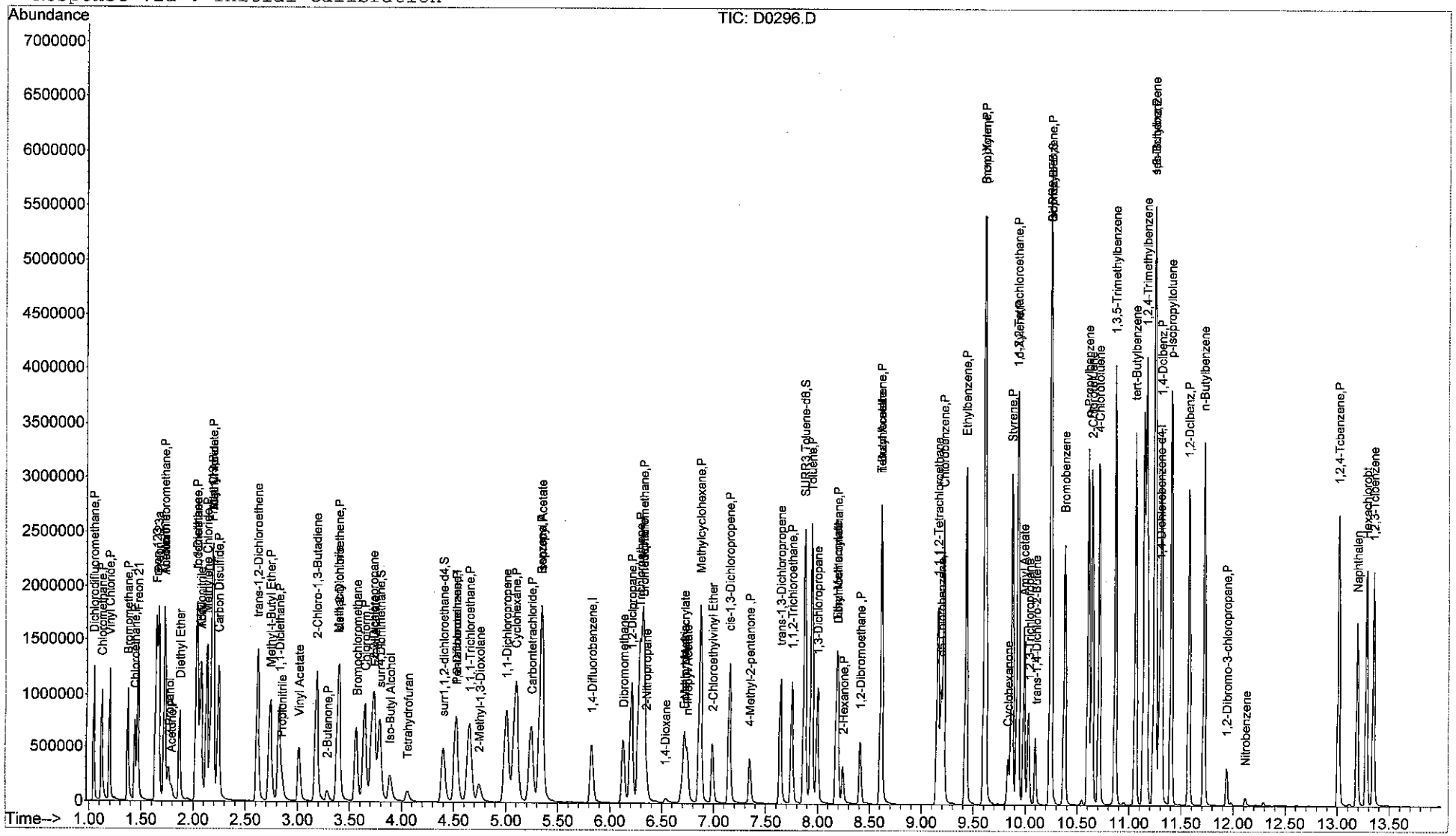
	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
94)	2-Chlorotoluene	10.64	91	1160419	107.73 ug/L	90
95)	4-Chlorotoluene	10.71	91	1231667	108.69 ug/L	89
96)	1,3,5-Trimethylbenzene	10.86	105	1359346	109.65 ug/L	88
97)	tert-Butylbenzene	11.06	119	1161034	113.17 ug/L	92
98)	1,2,4-Trimethylbenzene	11.16	105	1391909	108.48 ug/L	88
99)	sec-Butylbenzene	11.24	105	1546506	103.82 ug/L	87
100)	1,3-Dclbenz	11.25	146	1005867	122.59 ug/L	93
101)	1,4-Dclbenz	11.31	146	975875	116.59 ug/L	93
102)	p-Isopropyltoluene	11.41	119	1409303	109.40 ug/L	86
103)	1,2-Dclbenz	11.58	146	911707	120.35 ug/L	93
104)	n-Butylbenzene	11.72	91	1329525	112.95 ug/L	89
105)	1,2-Dibromo-3-chloropropan	11.93	75	64326	144.99 ug/L	98
106)	Nitrobenzene	12.12	77	27303	352.66 ug/L	69
107)	1,2,4-Tcbenzene	13.01	180	654521	133.60 ug/L	99
108)	Naphthalen	13.19	128	953623	120.93 ug/L	95
109)	Hexachlorobt	13.28	225	343992	140.87 ug/L	98
110)	1,2,3-Tclbenzene	13.35	180	538537	140.60 ug/L	99

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

Quantitation Report

Data File : I:\ACQUDATA\MSVOA6\DATA\071416\D0296.D Vial: 20
Acq On : 14 Jul 2016 5:20 pm Operator: D.LIPANI
Sample : STD #8 - 150 PPB Inst : MS#6
Misc : 8260C / 624 ICAL GCMS#6 Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Jul 15 12:44 2016 Quant Results File: W071416.RES

Method : I:\ACQUDATA\MSVOA6\METHODS\W071416.M (RTE Integrator)
Title : 8260C / 624 WATERS
Last Update : Fri Jul 15 13:03:36 2016
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : I:\ACQUDATA\MSVOA6\DATA\071416\D0297.D Vial: 21
Acq On : 14 Jul 2016 5:57 pm Operator: D.LIPANI
Sample : STD #9 - 200 PPB Inst : MS#6
Misc : 8260C / 624 ICAL GCMS#6 Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Jul 15 13:08 2016 Quant Results File: W071416.RES

Quant Method : I:\ACQUDATA\M...\W071416.M (RTE Integrator)
Title : 8260C / 624 WATERS
Last Update : Fri Jul 15 13:07:01 2016
Response via : Initial Calibration
DataAcq Meth : W071416

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.52	168	380845	50.00	ug/L	0.00
40) 1,4-Difluorobenzene	5.83	114	542286	50.00	ug/L	0.00
69) d5-Chlorobenzene	9.19	117	463088	50.00	ug/L	0.00
89) 1,4-Dichlorobenzene-d4	11.29	152	290699	50.00	ug/L	0.00
System Monitoring Compounds						
41) surr4,Dibrflmethane	3.79	113	184337	52.79	ug/L	0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 105.58%			
43) surr1,1,2-dichloroethane-d	4.40	65	154590	49.56	ug/L	0.00
Spiked Amount 50.000	Range 65 - 130		Recovery = 99.12%			
67) SURR3,Toluene-d8	7.87	98	590483	54.13	ug/L	0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 108.26%			
88) SURR2,BFB	10.24	95	262901	59.09	ug/L	0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 118.18%			

Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.04	85	741310	135.66	ug/L	84
3) Chloromethane	1.12	50	834494	149.36	ug/L	84
4) Vinyl Chloride	1.20	62	909035	140.96	ug/L	85
5) Bromomethane	1.37	94	558211	203.35	ug/L	97
6) Chloroethane	1.44	64	498297	159.40	ug/L	91
7) Freon 21	1.47	67	972855	140.42	ug/L	87
8) Freon 123	1.65	83	927205	159.95	ug/L	89
9) Freon 123a	1.66	67	774379	166.99	ug/L	91
10) Acrolein	1.72	56	333824	935.82	ug/L	99
11) Trichlorofluoromethane	1.72	101	886204	154.09	ug/L	93
12) Acetonitrile	1.72	41	217503	859.20	ug/L	95
13) 2-Propanol	1.77	45	377331	3645.55	ug/L	92
14) Acetone	1.79	43	101698	190.87	ug/L	88
15) Diethyl Ether	1.87	59	437430	173.68	ug/L	97
16) 1,1-Diclethene	2.03	96	622149	168.60	ug/L	93
17) Iodomethane	2.04	142	864916	187.20	ug/L	91
18) TBA	2.06	59	602927	3757.80	ug/L	98
19) Acrylonitrile	2.08	53	695957	862.74	ug/L	96
20) Methylene Chloride	2.13	84	665748	166.21	ug/L	92
21) Freon 113	2.17	101	704756	182.75	ug/L	96
22) Methyl Acetate	2.18	43	317348	188.98	ug/L	99
23) Allyl Chloride	2.19	76	378258	173.89	ug/L #	78
24) Carbon Disulfide	2.24	76	1611886	131.03	ug/L	85
25) trans-1,2-Dichloroethene	2.62	96	679264	174.49	ug/L	92
26) Methyl-t-Butyl Ether	2.74	73	1254574	173.02	ug/L	90
27) 1,1-Diclethane	2.83	63	1074153	176.87	ug/L	93
28) Propionitrile	2.86	54	256353	1010.14	ug/L	98
29) Vinyl Acetate	3.01	43	1009210	195.19	ug/L	96
30) 2-Chloro-1,3-Butadiene	3.18	53	971769	179.30	ug/L	91
31) 2-Butanone	3.28	43	172902	199.53	ug/L	97
32) Methacrylonitrile	3.38	67	173426	201.41	ug/L	97
33) cis-1,2-Dichloroethene	3.40	96	715576	180.05	ug/L	97
34) Bromochloromethane	3.57	128	297014	172.88	ug/L	93
35) Chloroform	3.65	83	1142875	175.38	ug/L	94
36) 2,2-Dichloropropane	3.72	77	980475	184.64	ug/L	93

DL
7/15/16

(#) = qualifier out of range (m) = manual integration
D0297.D W071416.M Fri Jul 15 13:09:41 2016

Quantitation Report (QT Reviewed)

Data File : I:\ACQUDATA\MSVOA6\DATA\071416\D0297.D Vial: 21
Acq On : 14 Jul 2016 5:57 pm Operator: D.LIPANI
Sample : STD #9 - 200 PPB Inst : MS#6
Misc : 8260C / 624 ICAL GCMS#6 Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Jul 15 13:08 2016 Quant Results File: W071416.RES

Quant Method : I:\ACQUDATA\M...\W071416.M (RTE Integrator)
Title : 8260C / 624 WATERS
Last Update : Fri Jul 15 13:07:01 2016
Response via : Initial Calibration
DataAcq Meth : W071416

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
37) Ethyl Acetate	3.74	43	759559	428.30 ug/L	94
38) Tetrahydrofuran	4.05	42	105768	184.90 ug/L	89
39) 1,1,1-Trichloroethane	4.65	97	973042	186.55 ug/L	98
42) Iso-Butyl Alcohol	3.90	43	287514	4053.05 ug/L	99
44) 1,2-Dichloroethane	4.52	64	218330	183.47 ug/L	91
45) 2-Methyl-1,3-Dioxolane	4.75	73	238477	1093.02 ug/L	95
46) 1,1-Dichloropropene	5.01	75	877050	187.86 ug/L	97
47) Cyclohexane	5.09	56	1070890	194.37 ug/L	98
48) Carbontetrachloride	5.25	119	854971	191.48 ug/L	98
49) Benzene	5.34	78	2194337	161.40 ug/L	88
50) Isopropyl Acetate	5.35	43	816179	211.32 ug/L	94
51) Dibromomethane	6.13	93	333694	198.11 ug/L	97
52) 1,2-Diclpropane	6.21	63	645451	184.76 ug/L	96
53) n-Heptane	6.31	43	779185	189.47 ug/L	94
54) Trichloroethene	6.28	130	686542	191.30 ug/L	99
55) Bromodichloromethane	6.33	83	825491	186.31 ug/L	98
56) 2-Nitropropane	6.35	41	156218	382.95 ug/L	91
57) 1,4-Dioxane	6.54	88	59146	3793.18 ug/L	94
58) Epichlorohydrin	6.70	57	179183	1019.27 ug/L	97
59) Methyl Methacrylate	6.72	69	292451	209.38 ug/L	89
60) n-Propyl Acetate	6.75	43	574847	197.97 ug/L	91
61) Methylcyclohexane	6.87	55	732501	183.84 ug/L	98
62) 2-Chloroethylvinyl Ether	6.98	63	307136	196.08 ug/L	92
63) cis-1,3-Dichloropropene	7.15	75	906331	183.19 ug/L	93
64) 4-Methyl-2-pentanone	7.34	43	357366	208.35 ug/L	98
65) trans-1,3-Dichloropropene	7.64	75	719226	182.80 ug/L	96
66) 1,1,2-Trichloroethane	7.75	97	436338	189.47 ug/L	98
68) Toluene	7.94	91	1799620	128.11 ug/L	89
70) 1,3-Dichloropropane	8.00	76	666081	181.48 ug/L	97
71) Ethyl Methacrylate	8.18	69	534832	193.31 ug/L	98
72) Dibromochloromethane	8.19	129	562869	193.18 ug/L	94
73) 2-Hexanone	8.24	43	250672	202.69 ug/L	94
74) 1,2-Dibromoethane	8.41	107	440374	181.50 ug/L	97
75) n-Butyl Acetate	8.61	43	620272	200.83 ug/L	96
76) Tetrachloroethene	8.61	164	561841	184.94 ug/L	96
77) 1,1,1,2-Tetrachloroethane	9.16	131	596920	192.71 ug/L	97
78) Chlorobenzene	9.21	112	1329389	148.88 ug/L	90
79) Ethylbenzene	9.43	106	816272	168.44 ug/L #	68
80) Bromoform	9.61	173	363561	225.07 ug/L	98
81) (m+p)Xylene	9.61	106	1737715m	304.44 ug/L	
82) o-Xylene	9.93	106	962392	174.13 ug/L #	81
83) Cyclohexanone	9.83	55	214363	4078.97 ug/L	96
84) Styrene	9.87	104	1382831	157.52 ug/L	89
85) Amyl Acetate	9.98	43	796763	193.37 ug/L	93
86) trans-1,4-Dichloro-2-Buten	10.10	75	201447	218.89 ug/L	96
87) Isopropylbenzene	10.24	105	1846141	126.80 ug/L	82
90) 1,1,2,2-Tetrachloroethane	9.92	83	544358	184.25 ug/L	99
91) 1,2,3-Trichloropropane	10.03	75	378492	187.31 ug/L	97
92) Bromobenzene	10.38	156	766716	163.68 ug/L	95
93) n-Propylbenzene	10.60	91	1955056	107.96 ug/L	77

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

Data File : I:\ACQUDATA\MSVOA6\DATA\071416\D0297.D Vial: 21
Acq On : 14 Jul 2016 5:57 pm Operator: D.LIPANI
Sample : STD #9 - 200 PPB Inst : MS#6
Misc : 8260C / 624 ICAL GCMS#6 Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Jul 15 13:08 2016 Quant Results File: W071416.RES

Quant Method : I:\ACQUDATA\M...\W071416.M (RTE Integrator)
Title : 8260C / 624 WATERS
Last Update : Fri Jul 15 13:07:01 2016
Response via : Initial Calibration
DataAcq Meth : W071416

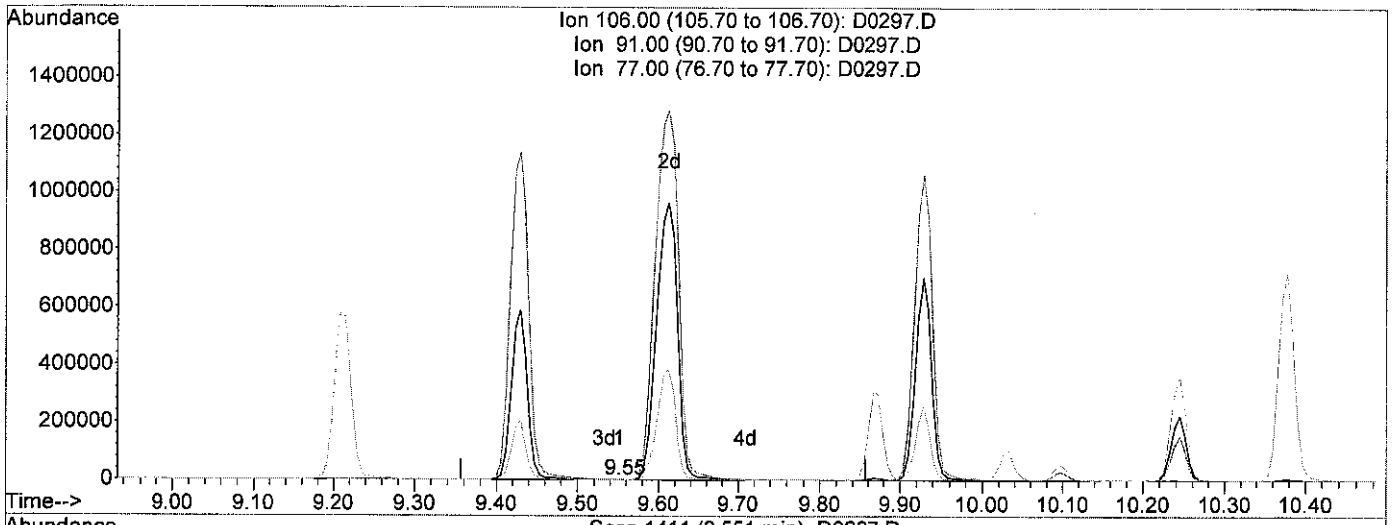
	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
94)	2-Chlorotoluene	10.64	91	1475241	133.23 ug/L	87
95)	4-Chlorotoluene	10.71	91	1529391	131.30 ug/L	83
96)	1,3,5-Trimethylbenzene	10.86	105	1652554	129.67 ug/L	84
97)	tert-Butylbenzene	11.06	119	1454425	137.91 ug/L	86
98)	1,2,4-Trimethylbenzene	11.17	105	1681558	127.49 ug/L	84
99)	sec-Butylbenzene	11.24	105	1849763	120.81 ug/L	81
100)	1,3-Dclbenz	11.25	146	1273950	151.04 ug/L	90
101)	1,4-Dclbenz	11.31	146	1241335	144.27 ug/L	90
102)	p-Isopropyltoluene	11.41	119	1703043	128.61 ug/L	82
103)	1,2-Dclbenz	11.58	146	1124954	144.46 ug/L	90
104)	n-Butylbenzene	11.72	91	1572533	129.96 ug/L	86
105)	1,2-Dibromo-3-chloropropan	11.93	75	86433	189.51 ug/L	98
106)	Nitrobenzene	12.12	77	41616	522.91 ug/L	79
107)	1,2,4-Tcbenzene	13.01	180	825476	161.40 ug/L	98
108)	Naphthalen	13.19	128	1198435	147.84 ug/L	92
109)	Hexachlorobt	13.28	225	444048	176.90 ug/L	95
110)	1,2,3-Tclbenzene	13.35	180	697484	177.14 ug/L	98

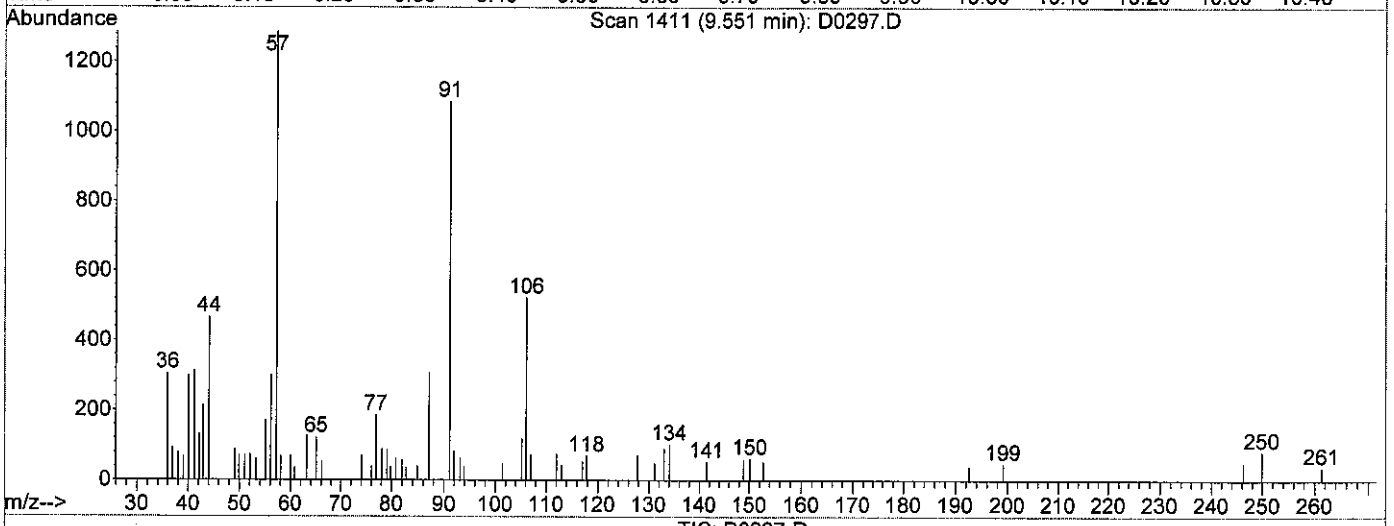
(#) = qualifier out of range (m) = manual integration

Quantitation Report (Qedit)

Data File : I:\ACQUDATA\MSVOA6\DATA\071416\D0297.D Vial: 21
Acq On : 14 Jul 2016 5:57 pm Operator: D.LIPANI
Sample : STD #9 - 200 PPB Inst : MS#6
Misc : 8260C / 624 ICAL GCMS#6 Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Jul 15 13:07 2016 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA6\METHODS\W071416.M (RTE Integrator)
Title : 8260C / 624 WATERS
Last Update : Fri Jul 15 13:07:01 2016
Response via : Multiple Level Calibration





(81) (m+p)Xylene (P)

9.55min 0.06ug/L

response 366

Ion	Exp%	Act%
106.00	100	100
91.00	183.70	189.89
77.00	27.30	16.94
0.00	0.00	0.00

Manual Integration:

Before

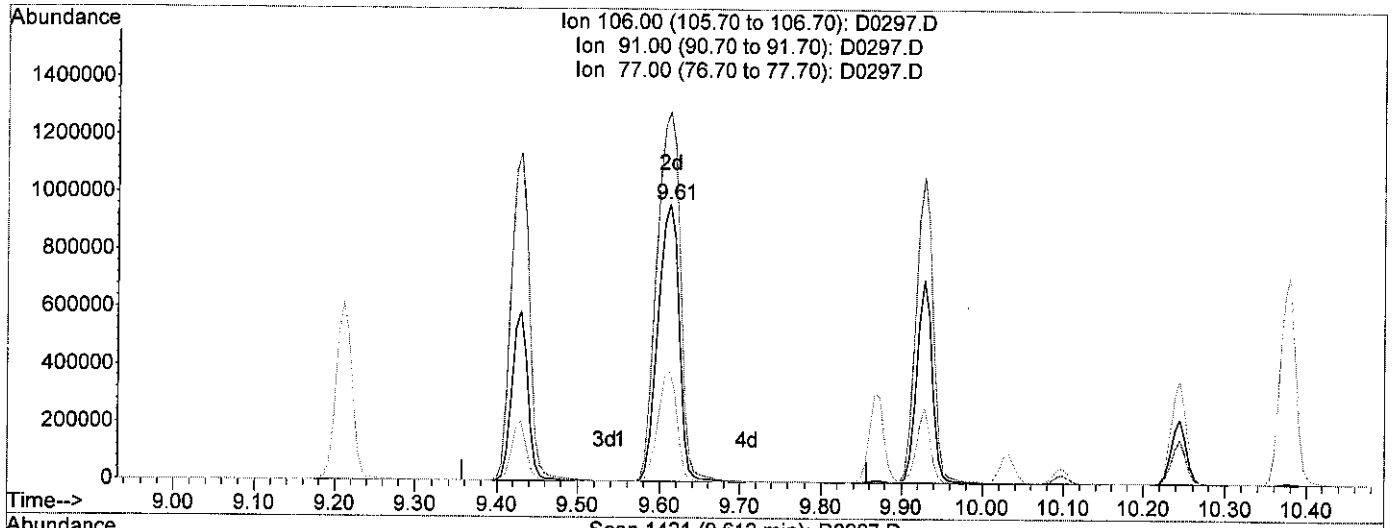
07/15/16

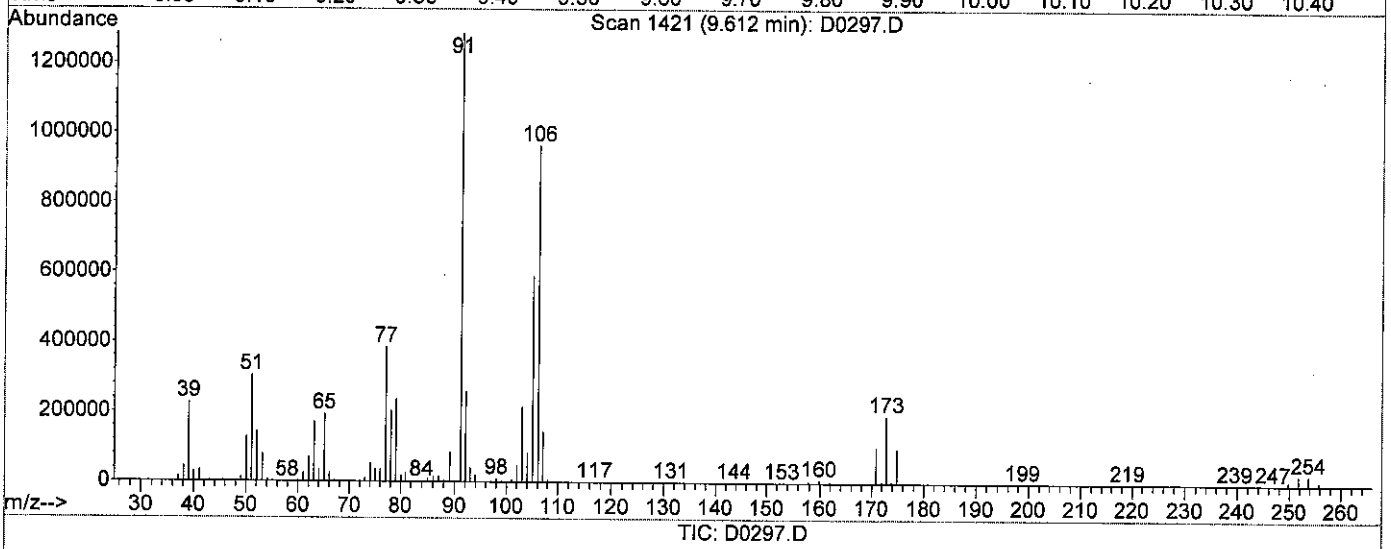
D0297.D W071416.M Fri Jul 15 13:08:32 2016

Quantitation Report (Qedit)

Data File : I:\ACQUDATA\MSVOA6\DATA\071416\D0297.D Vial: 21
Acq On : 14 Jul 2016 5:57 pm Operator: D.LIPANI
Sample : STD #9 - 200 PPB Inst : MS#6
Misc : 8260C / 624 ICAL GCMS#6 Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Jul 15 13:08 2016 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA6\METHODS\W071416.M (RTE Integrator)
Title : 8260C / 624 WATERS
Last Update : Fri Jul 15 13:07:01 2016
Response via : Multiple Level Calibration





TIC: D0297.D

(81) (m+p)Xylene (P)

9.61min 304.44ug/L m

response 1737715

Ion	Exp%	Act%
106.00	100	100
91.00	183.70	0.04#
77.00	27.30	0.00#
0.00	0.00	0.00

Manual Integration:

After

Peak not found.

07/15/16 DL

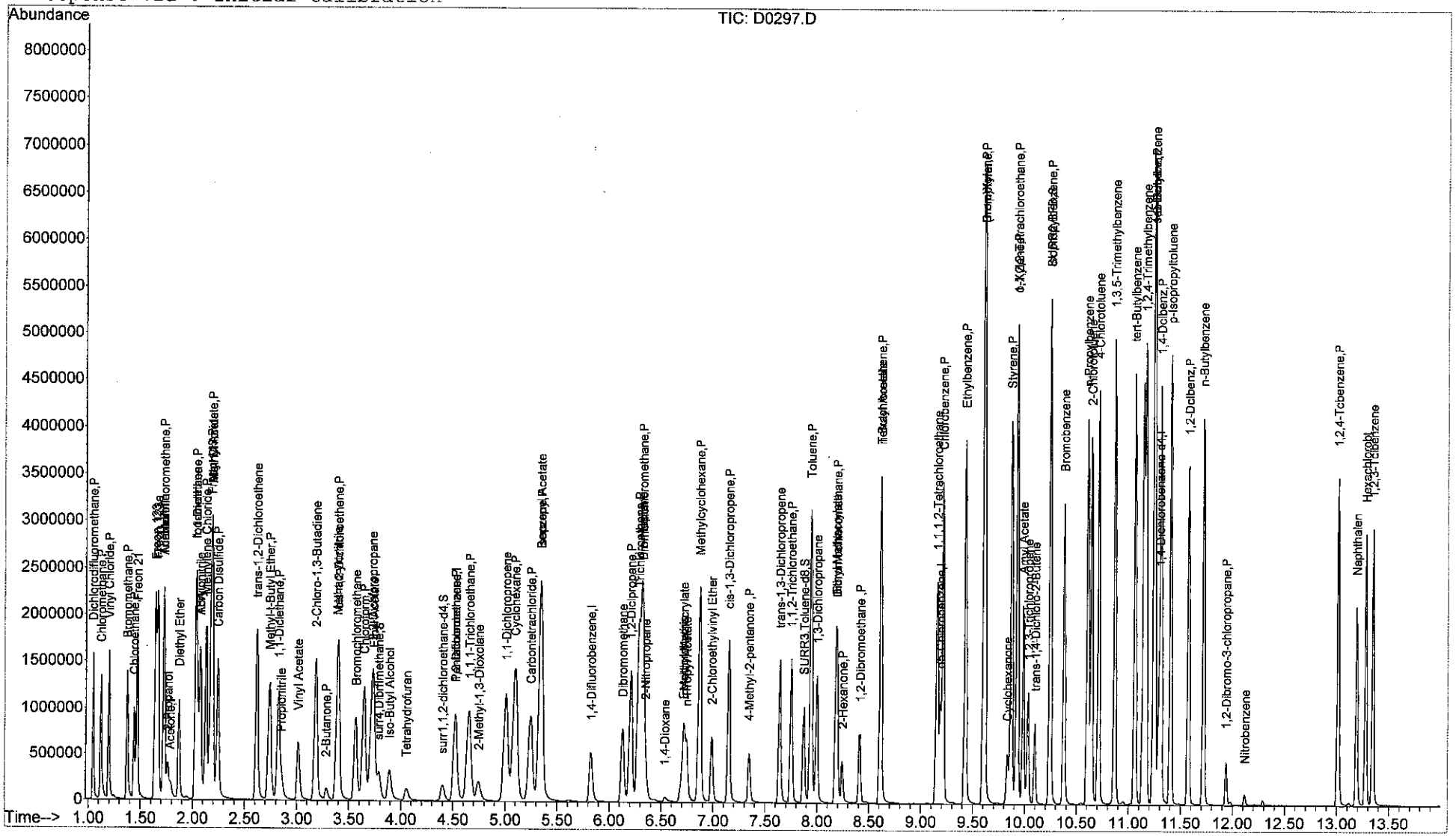
FJ 7/18/16

D0297.D W071416.M Fri Jul 15 13:08:41 2016

Quantitation Report

Data File : I:\ACQUDATA\MSVOA6\DATA\071416\D0297.D Vial: 21
Acq On : 14 Jul 2016 5:57 pm Operator: D.LIPANI
Sample : STD #9 - 200 PPB Inst : MS#6
Misc : 8260C / 624 ICAL GCMS#6 Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Jul 15 13:08 2016 Quant Results File: W071416.RES

Method : I:\ACQUDATA\MSVOA6\METHODS\W071416.M (RTE Integrator)
Title : 8260C / 624 WATERS
Last Update : Fri Jul 15 13:07:01 2016
Response via : Initial Calibration



Initial Calibration Verification Summary Report

DL 7/18/16

Calibration ID: RC1600073

Instrument ID: R-MS-06
Column Name: 1

Analyte	Lab Code	Type	Curve Fit	True Value	Calc Conc	Units	Result	Criteria
1,1,1,2-Tetrachloroethane	RC1600073-01	T	Average RF	50	55.88	ppm	11.8	<=20
1,1,1,2-Tetrachloroethane	RC1600073-01	T	Average RF	50	55.88	ppm	11.8	<=30
1,1,1-Trichloroethane (TCA)	RC1600073-01	T	Average RF	50	51.32	ppm	2.6	<=30
1,1,1-Trichloroethane (TCA)	RC1600073-01	T	Average RF	50	51.32	ppm	2.6	<=20
1,1,2,2-Tetrachloroethane	RC1600073-01	T	Average RF	50	50.05	ppm	0.1	<=30
1,1,2,2-Tetrachloroethane	RC1600073-01	T	Average RF	50	50.05	ppm	0.1	<=20
1,1,2-Trichloroethane	RC1600073-01	T	Average RF	50	50.56	ppm	1.1	<=20
1,1,2-Trichloroethane	RC1600073-01	T	Average RF	50	50.56	ppm	1.1	<=30
1,1,2-Trichlorotrifluoroethane	RC1600073-01	T	Average RF	50	47.73	ppm	-4.5	<=20
1,1,2-Trichlorotrifluoroethane	RC1600073-01	T	Average RF	50	47.73	ppm	-4.5	<=30
1,1-Dichloroethane (1,1-DCA)	RC1600073-01	T	Average RF	50	51.44	ppm	2.9	<=20
1,1-Dichloroethane (1,1-DCA)	RC1600073-01	T	Average RF	50	51.44	ppm	2.9	<=30
1,1-Dichloroethene (1,1-DCE)	RC1600073-01	T	Average RF	50	49.66	ppm	-0.7	<=30
1,1-Dichloroethene (1,1-DCE)	RC1600073-01	T	Average RF	50	49.66	ppm	-0.7	<=20
1,1-Dichloropropene	RC1600073-01	T	Average RF	50	51.94	ppm	3.9	<=20
1,1-Dichloropropene	RC1600073-01	T	Average RF	50	51.94	ppm	3.9	<=30
1,2,3-Trichlorobenzene	RC1600073-01	T	Average RF	50	53.21	ppm	6.4	<=30
1,2,3-Trichlorobenzene	RC1600073-01	T	Average RF	50	53.21	ppm	6.4	<=20
1,2,3-Trichloropropane	RC1600073-01	T	Average RF	50	48.74	ppm	-2.5	<=30
1,2,3-Trichloropropane	RC1600073-01	T	Average RF	50	48.74	ppm	-2.5	<=20
1,2,4-Trichlorobenzene	RC1600073-01	T	Average RF	50	50.88	ppm	1.8	<=20
1,2,4-Trichlorobenzene	RC1600073-01	T	Average RF	50	50.88	ppm	1.8	<=30
1,2,4-Trimethylbenzene	RC1600073-01	T	Average RF	50	48.06	ppm	-3.9	<=30
1,2,4-Trimethylbenzene	RC1600073-01	T	Average RF	50	48.06	ppm	-3.9	<=20
1,2-Dibromo-3-chloropropane (DBCP)	RC1600073-01	T	Average RF	50	52.93	ppm	5.9	<=30
1,2-Dibromo-3-chloropropane (DBCP)	RC1600073-01	T	Average RF	50	52.93	ppm	5.9	<=20
1,2-Dibromoethane	RC1600073-01	T	Average RF	50	52.91	ppm	5.8	<=20
1,2-Dibromoethane	RC1600073-01	T	Average RF	50	52.91	ppm	5.8	<=30
1,2-Dichloro-1,1,2-trifluoroethane (CFC 123	RC1600073-01	T	Average RF	50	52.75	ppm	5.5	<=30
1,2-Dichloro-1,1,2-trifluoroethane (CFC 123	RC1600073-01	T	Average RF	50	52.75	ppm	5.5	<=20
1,2-Dichlorobenzene	RC1600073-01	T	Average RF	50	47.22	ppm	-5.6	<=30
1,2-Dichlorobenzene	RC1600073-01	T	Average RF	50	47.22	ppm	-5.6	<=20
1,2-Dichloroethane	RC1600073-01	T	Average RF	50	48.76	ppm	-2.5	<=20
1,2-Dichloroethane	RC1600073-01	T	Average RF	50	48.76	ppm	-2.5	<=30
1,2-Dichloropropane	RC1600073-01	T	Average RF	50	50.58	ppm	1.2	<=30
1,2-Dichloropropane	RC1600073-01	T	Average RF	50	50.58	ppm	1.2	<=20
1,3,5-Trimethylbenzene	RC1600073-01	T	Average RF	50	46.64	ppm	-6.7	<=20
1,3,5-Trimethylbenzene	RC1600073-01	T	Average RF	50	46.64	ppm	-6.7	<=30
1,3-Dichlorobenzene	RC1600073-01	T	Average RF	50	48.01	ppm	-4.0	<=20
1,3-Dichlorobenzene	RC1600073-01	T	Average RF	50	48.01	ppm	-4.0	<=30
1,3-Dichloropropane	RC1600073-01	T	Average RF	50	58.56	ppm	17.1	<=30
1,3-Dichloropropane	RC1600073-01	T	Average RF	50	58.56	ppm	17.1	<=20
1,4-Dichlorobenzene	RC1600073-01	T	Average RF	50	48.28	ppm	-3.4	<=30
1,4-Dichlorobenzene	RC1600073-01	T	Average RF	50	48.28	ppm	-3.4	<=20
1,4-Dioxane	RC1600073-01	T	Average RF	1000	986.5	ppm	-1.3	<=20
1,4-Dioxane	RC1600073-01	T	Average RF	1000	986.5	ppm	-1.3	<=30
2,2-Dichloro-1,1,1-trifluoroethane (CFC 123	RC1600073-01	T	Average RF	50	51.64	ppm	3.3	<=20
2,2-Dichloro-1,1,1-trifluoroethane (CFC 123	RC1600073-01	T	Average RF	50	51.64	ppm	3.3	<=30
2,2-Dichloropropane	RC1600073-01	T	Average RF	50	49.49	ppm	-1.0	<=20
2,2-Dichloropropane	RC1600073-01	T	Average RF	50	49.49	ppm	-1.0	<=30
2-Butanone (MEK)	RC1600073-01	T	Average RF	50	48.97	ppm	-2.1	<=30

Initial Calibration Verification Summary Report

DL 7/18/16

Calibration ID: RC1600073

Instrument ID: R-MS-06
Column Name: 1

Analyte	Lab Code	Type	Curve Fit	True Value	Calc Conc	Units	Result	Criteria
2-Butanone (MEK)	RC1600073-01	T	Average RF	50	48.97	ppm	-2.1	<=20
2-Chloro-1,3-butadiene	RC1600073-01	T	Average RF	50	51.16	ppm	2.3	<=30
2-Chloro-1,3-butadiene	RC1600073-01	T	Average RF	50	51.16	ppm	2.3	<=20
2-Chloroethyl Vinyl Ether	RC1600073-01	T	Average RF	50	52.84	ppm	5.7	<=20
2-Chloroethyl Vinyl Ether	RC1600073-01	T	Average RF	50	52.84	ppm	5.7	<=30
2-Chlorotoluene	RC1600073-01	T	Average RF	50	46.25	ppm	-7.5	<=30
2-Chlorotoluene	RC1600073-01	T	Average RF	50	46.25	ppm	-7.5	<=20
2-Hexanone	RC1600073-01	T	Average RF	50	51.44	ppm	2.9	<=30
2-Hexanone	RC1600073-01	T	Average RF	50	51.44	ppm	2.9	<=20
2-Methyl-1,3-dioxolane	RC1600073-01	T	Average RF	250	272.6	ug/L	9.1	<=30
2-Methyl-1-propanol	RC1600073-01	T	Average RF	1000	1019	ppm	1.9	<=30
2-Methyl-1-propanol	RC1600073-01	T	Average RF	1000	1019	ppm	1.9	<=20
2-Methyl-2-propanol	RC1600073-01	T	Average RF	1000	1060	ppm	6.0	<=30
2-Methyl-2-propanol	RC1600073-01	T	Average RF	1000	1060	ppm	6.0	<=20
2-Nitropropane	RC1600073-01	T	Average RF	100	105.5	ppm	5.5	<=30
2-Nitropropane	RC1600073-01	T	Average RF	100	105.5	ppm	5.5	<=20
2-Propanol	RC1600073-01	T	Average RF	1000	974.3	ppm	-2.6	<=20
2-Propanol	RC1600073-01	T	Average RF	1000	974.3	ppm	-2.6	<=30
3-Chloro-1-propene	RC1600073-01	T	Average RF	50	45.16	ppm	-9.7	<=30
3-Chloro-1-propene	RC1600073-01	T	Average RF	50	45.16	ppm	-9.7	<=20
4-Chlorotoluene	RC1600073-01	T	Average RF	50	47.68	ppm	-4.6	<=20
4-Chlorotoluene	RC1600073-01	T	Average RF	50	47.68	ppm	-4.6	<=30
4-Isopropyltoluene	RC1600073-01	T	Average RF	50	47.50	ppm	-5.0	<=30
4-Isopropyltoluene	RC1600073-01	T	Average RF	50	47.50	ppm	-5.0	<=20
4-Methyl-2-pentanone	RC1600073-01	T	Average RF	50	52.77	ppm	5.5	<=30
4-Methyl-2-pentanone	RC1600073-01	T	Average RF	50	52.77	ppm	5.5	<=20
Acetone	RC1600073-01	T	Average RF	50	49.46	ppm	-1.1	<=20
Acetone	RC1600073-01	T	Average RF	50	49.46	ppm	-1.1	<=30
Acetonitrile	RC1600073-01	T	Average RF	250	220.1	ppm	-12.0	<=30
Acetonitrile	RC1600073-01	T	Average RF	250	220.1	ppm	-12.0	<=20
Acrolein	RC1600073-01	T	Average RF	100	101.6	ppm	1.6	<=20
Acrolein	RC1600073-01	T	Average RF	100	101.6	ppm	1.6	<=30
Acrylonitrile	RC1600073-01	T	Average RF	250	251.5	ppm	0.6	<=20
Acrylonitrile	RC1600073-01	T	Average RF	250	251.5	ppm	0.6	<=30
Amyl Acetate	RC1600073-01	T	Average RF	50	59.69	ug/L	19.4	<=30
Benzene	RC1600073-01	T	Average RF	50	48.79	ppm	-2.4	<=30
Benzene	RC1600073-01	T	Average RF	50	48.79	ppm	-2.4	<=20
Bromobenzene	RC1600073-01	T	Average RF	50	47.40	ppm	-5.2	<=20
Bromobenzene	RC1600073-01	T	Average RF	50	47.40	ppm	-5.2	<=30
Bromochloromethane	RC1600073-01	T	Average RF	50	49.29	ppm	-1.4	<=30
Bromochloromethane	RC1600073-01	T	Average RF	50	49.29	ppm	-1.4	<=20
Bromochloromethane	RC1600073-01	T	Average RF	50	49.29	ppm	-1.4	
Bromodichloromethane	RC1600073-01	T	Average RF	50	50.11	ppm	0.2	<=20
Bromodichloromethane	RC1600073-01	T	Average RF	50	50.11	ppm	0.2	<=30
Bromoform	RC1600073-11	T	Average RF	50	57.53	ppm	15.1	<=30
Bromoform	RC1600073-11	T	Average RF	50	57.53	ppm	15.1	<=20
Bromomethane	RC1600073-01	T	Average RF	50	51.70	ppm	3.4	<=20
Bromomethane	RC1600073-01	T	Average RF	50	51.70	ppm	3.4	<=30
Carbon Disulfide	RC1600073-01	T	Average RF	50	47.70	ppm	-4.6	<=30
Carbon Disulfide	RC1600073-01	T	Average RF	50	47.70	ppm	-4.6	<=20
Carbon Tetrachloride	RC1600073-01	T	Average RF	50	49.21	ppm	-1.6	<=30

Initial Calibration Verification Summary Report

Calibration ID: RC1600073

Instrument ID: R-MS-06
Column Name: 1

Analyte	Lab Code	Type	Curve Fit	True Value	Calc Conc	Units	Result	Criteria
Carbon Tetrachloride	RC1600073-01	T	Average RF	50	49.21	ppm	-1.6	<=20
Chlorobenzene	RC1600073-01	T	Average RF	50	50.92	ppm	1.8	<=20
Chlorobenzene	RC1600073-01	T	Average RF	50	50.92	ppm	1.8	<=30
Chloroethane	RC1600073-01	T	Average RF	50	44.75	ppm	-10.5	<=20
Chloroethane	RC1600073-01	T	Average RF	50	44.75	ppm	-10.5	<=30
Chloroform	RC1600073-01	T	Average RF	50	47.44	ppm	-5.1	<=30
Chloroform	RC1600073-01	T	Average RF	50	47.44	ppm	-5.1	<=20
Chloromethane	RC1600073-01	T	Average RF	50	47.77	ppm	-4.5	<=20
Chloromethane	RC1600073-01	T	Average RF	50	47.77	ppm	-4.5	<=30
Cyclohexane	RC1600073-01	T	Average RF	50	51.53	ppm	3.1	<=20
Cyclohexane	RC1600073-01	T	Average RF	50	51.53	ppm	3.1	<=30
Cyclohexanone	RC1600073-01	T	Average RF	1000	1204	ppm	20.4	<=20
Cyclohexanone	RC1600073-01	T	Average RF	1000	1204	ppm	20.4	<=30
Dibromochloromethane	RC1600073-01	T	Average RF	50	55.18	ppm	10.4	<=30
Dibromochloromethane	RC1600073-01	T	Average RF	50	55.18	ppm	10.4	<=20
Dibromomethane	RC1600073-01	T	Average RF	50	48.98	ppm	-2.0	<=30
Dibromomethane	RC1600073-01	T	Average RF	50	48.98	ppm	-2.0	<=20
Dichlorodifluoromethane (CFC 12)	RC1600073-01	T	Average RF	50	49.41	ppm	-1.2	<=30
Dichlorodifluoromethane (CFC 12)	RC1600073-01	T	Average RF	50	49.41	ppm	-1.2	<=20
Dichlorofluoromethane (CFC 21)	RC1600073-01	T	Average RF	50	49.40	ppm	-1.2	<=20
Dichlorofluoromethane (CFC 21)	RC1600073-01	T	Average RF	50	49.40	ppm	-1.2	<=30
Dichloromethane	RC1600073-01	T	Average RF	50	47.12	ppm	-5.8	<=20
Dichloromethane	RC1600073-01	T	Average RF	50	47.12	ppm	-5.8	<=30
Diethyl Ether	RC1600073-01	T	Average RF	50	48.60	ppm	-2.8	<=20
Diethyl Ether	RC1600073-01	T	Average RF	50	48.60	ppm	-2.8	<=30
Epichlorohydrin	RC1600073-01	T	Average RF	250	239.4	ug/L	-4.2	<=20
Epichlorohydrin	RC1600073-01	T	Average RF	250	239.4	ug/L	-4.2	<=30
Ethyl Acetate	RC1600073-01	T	Average RF	50	52.32	ug/L	4.6	<=30
Ethyl Acetate	RC1600073-01	T	Average RF	50	52.32	ug/L	4.6	<=20
Ethyl Methacrylate	RC1600073-01	T	Average RF	50	57.37	ppm	14.7	<=30
Ethyl Methacrylate	RC1600073-01	T	Average RF	50	57.37	ppm	14.7	<=20
Ethylbenzene	RC1600073-01	T	Average RF	50	50.69	ppm	1.4	<=30
Ethylbenzene	RC1600073-01	T	Average RF	50	50.69	ppm	1.4	<=20
Hexachlorobutadiene	RC1600073-01	T	Average RF	50	48.60	ppm	-2.8	<=30
Hexachlorobutadiene	RC1600073-01	T	Average RF	50	48.60	ppm	-2.8	<=20
Iodomethane	RC1600073-01	T	Linear	50	59.79	ppm	19.6	<=30
Iodomethane	RC1600073-01	T	Linear	50	59.79	ppm	19.6	<=20
Isopropyl Acetate	RC1600073-01	T	Average RF	50	54.23	ug/L	8.5	<=30
Isopropyl Acetate	RC1600073-01	T	Average RF	50	54.23	ug/L	8.5	<=20
Isopropylbenzene (Cumene)	RC1600073-01	T	Average RF	50	47.61	ppm	-4.8	<=30
Isopropylbenzene (Cumene)	RC1600073-01	T	Average RF	50	47.61	ppm	-4.8	<=20
Methacrylonitrile	RC1600073-01	T	Average RF	50	54.30	ppm	8.6	<=30
Methacrylonitrile	RC1600073-01	T	Average RF	50	54.30	ppm	8.6	<=20
Methyl Acetate	RC1600073-01	T	Average RF	50	50.03	ppm	0.1	<=30
Methyl Acetate	RC1600073-01	T	Average RF	50	50.03	ppm	0.1	<=20
Methyl Methacrylate	RC1600073-01	T	Average RF	50	51.44	ppm	2.9	<=30
Methyl Methacrylate	RC1600073-01	T	Average RF	50	51.44	ppm	2.9	<=20
Methyl tert-Butyl Ether	RC1600073-01	T	Average RF	50	50.92	ppm	1.8	<=30
Methyl tert-Butyl Ether	RC1600073-01	T	Average RF	50	50.92	ppm	1.8	<=20
Methylcyclohexane	RC1600073-01	T	Average RF	50	51.13	ppm	2.3	<=30
Methylcyclohexane	RC1600073-01	T	Average RF	50	51.13	ppm	2.3	<=20

Initial Calibration Verification Summary Report

Calibration ID: RC1600073

Instrument ID: R-MS-06
Column Name: 1

Analyte	Lab Code	Type	Curve Fit	True Value	Calc Conc	Units	Result	Criteria
Naphthalene	RC1600073-01	T	Average RF	50	49.50	ppm	-1.0	<=30
Naphthalene	RC1600073-01	T	Average RF	50	49.50	ppm	-1.0	<=20
Nitrobenzene	RC1600073-01	T	Average RF	100	96.48	ppm	-3.5	<=20
Nitrobenzene	RC1600073-01	T	Average RF	100	96.48	ppm	-3.5	<=30
Propionitrile	RC1600073-01	T	Average RF	250	249.0	ppm	-0.4	<=20
Propionitrile	RC1600073-01	T	Average RF	250	249.0	ppm	-0.4	<=30
Styrene	RC1600073-01	T	Average RF	50	53.10	ppm	6.2	<=30
Styrene	RC1600073-01	T	Average RF	50	53.10	ppm	6.2	<=20
Tetrachloroethene (PCE)	RC1600073-01	T	Average RF	50	53.66	ppm	7.3	<=30
Tetrachloroethene (PCE)	RC1600073-01	T	Average RF	50	53.66	ppm	7.3	<=20
Tetrahydrofuran (THF)	RC1600073-01	T	Average RF	50	50.70	ppm	1.4	<=30
Tetrahydrofuran (THF)	RC1600073-01	T	Average RF	50	50.70	ppm	1.4	<=20
Toluene	RC1600073-01	T	Average RF	50	46.17	ppm	-7.7	<=20
Toluene	RC1600073-01	T	Average RF	50	46.17	ppm	-7.7	<=30
Trichloroethene (TCE)	RC1600073-01	T	Average RF	50	54.30	ppm	8.6	<=30
Trichloroethene (TCE)	RC1600073-01	T	Average RF	50	54.30	ppm	8.6	<=20
Trichlorofluoromethane (CFC 11)	RC1600073-01	T	Average RF	50	49.85	ppm	-0.3	<=30
Trichlorofluoromethane (CFC 11)	RC1600073-01	T	Average RF	50	49.85	ppm	-0.3	<=20
Vinyl Acetate	RC1600073-01	T	Average RF	50	51.75	ppm	3.5	<=20
Vinyl Acetate	RC1600073-01	T	Average RF	50	51.75	ppm	3.5	<=30
Vinyl Chloride	RC1600073-01	T	Average RF	50	44.35	ppm	-11.3	<=30
Vinyl Chloride	RC1600073-01	T	Average RF	50	44.35	ppm	-11.3	<=20
cis-1,2-Dichloroethene	RC1600073-01	T	Average RF	50	49.97	ppm	-0.1	<=20
cis-1,2-Dichloroethene	RC1600073-01	T	Average RF	50	49.97	ppm	-0.1	<=30
cis-1,3-Dichloropropene	RC1600073-01	T	Average RF	50	50.55	ppm	1.1	<=20
cis-1,3-Dichloropropene	RC1600073-01	T	Average RF	50	50.55	ppm	1.1	<=30
m,p-Xylenes	RC1600073-01	T	Average RF	100	104.3	ppm	4.3	<=30
m,p-Xylenes	RC1600073-01	T	Average RF	100	104.3	ppm	4.3	<=20
n-Butyl Acetate	RC1600073-01	T	Average RF	50	56.52	ppm	13.0	<=30
n-Butyl Acetate	RC1600073-01	T	Average RF	50	56.52	ppm	13.0	<=20
n-Butylbenzene	RC1600073-01	T	Average RF	50	48.22	ppm	-3.6	<=20
n-Butylbenzene	RC1600073-01	T	Average RF	50	48.22	ppm	-3.6	<=30
n-Heptane	RC1600073-01	T	Average RF	50	46.39	ppm	-7.2	<=20
n-Heptane	RC1600073-01	T	Average RF	50	46.39	ppm	-7.2	<=30
n-Propyl Acetate	RC1600073-01	T	Linear	50	49.26	ug/L	-1.5	<=30
n-Propyl Acetate	RC1600073-01	T	Linear	50	49.26	ug/L	-1.5	<=20
n-Propylbenzene	RC1600073-01	T	Average RF	50	44.64	ppm	-10.7	<=30
n-Propylbenzene	RC1600073-01	T	Average RF	50	44.64	ppm	-10.7	<=20
o-Xylene	RC1600073-01	T	Average RF	50	53.87	ppm	7.7	<=20
o-Xylene	RC1600073-01	T	Average RF	50	53.87	ppm	7.7	<=30
sec-Butylbenzene	RC1600073-01	T	Average RF	50	47.67	ppm	-4.7	<=30
sec-Butylbenzene	RC1600073-01	T	Average RF	50	47.67	ppm	-4.7	<=20
tert-Butylbenzene	RC1600073-01	T	Average RF	50	48.61	ppm	-2.8	<=30
tert-Butylbenzene	RC1600073-01	T	Average RF	50	48.61	ppm	-2.8	<=20
trans-1,2-Dichloroethene	RC1600073-01	T	Average RF	50	49.20	ppm	-1.6	<=30
trans-1,2-Dichloroethene	RC1600073-01	T	Average RF	50	49.20	ppm	-1.6	<=20
trans-1,3-Dichloropropene	RC1600073-01	T	Average RF	50	52.87	ppm	5.7	<=20
trans-1,3-Dichloropropene	RC1600073-01	T	Average RF	50	52.87	ppm	5.7	<=30
trans-1,4-Dichloro-2-butene	RC1600073-01	T	Average RF	50	53.84	ppm	7.7	<=20
trans-1,4-Dichloro-2-butene	RC1600073-01	T	Average RF	50	53.84	ppm	7.7	<=30
1,2-Dichloroethane-d4	RC1600073-01	S	Average RF	50	48.56	ppm	-2.9	<=30

Initial Calibration Verification Summary Report

Calibration ID:	RC1600073	**Instrument ID:**	R-MS-06
		Column Name:	1

Analyte	Lab Code	Type	Curve Fit	True Value	Calc Conc	Units	Result	Criteria
1,2-Dichloroethane-d4	RC1600073-01	S	Average RF	50	48.56	ppm	-2.9	<=20
4-Bromofluorobenzene	RC1600073-01	S	Average RF	50	53.64	ppm	7.3	<=20
4-Bromofluorobenzene	RC1600073-01	S	Average RF	50	53.64	ppm	7.3	<=30
Dibromofluoromethane	RC1600073-01	S	Average RF	50	50.59	ppm	1.2	<=30
Dibromofluoromethane	RC1600073-01	S	Average RF	50	50.59	ppm	1.2	<=20
Toluene-d8	RC1600073-01	S	Average RF	50	53.94	ppm	7.9	<=20
Toluene-d8	RC1600073-01	S	Average RF	50	53.94	ppm	7.9	<=30

Exceptions

QAP	Method
LAB QAP	8260C

Compound	Type	Criteria	Result
Cyclohexanone	Percent Difference	<= 20	20.38

Exceptions

QAP	Method
DOD QSM v5.0 Rochester	8260C

Compound	Type	Criteria	Result
Cyclohexanone	Percent Difference	<= 20	20.38

Quantitation Report (QT Reviewed)

Data File : I:\ACQUDATA\MSVOA6\DATA\071416\D0300.D Vial: 24
Acq On : 14 Jul 2016 7:32 pm Operator: D.LIPANI
Sample : ICV - 50 PPB Inst : MS#6
Misc : 8260C / 624 ICAL GCMS#6 Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Jul 18 16:23 2016 Quant Results File: W071416.RES

Quant Method : I:\ACQUDATA\M...\W071416.M (RTE Integrator)
Title : 8260C / 624 WATERS
Last Update : Mon Jul 18 16:21:59 2016
Response via : Initial Calibration
DataAcq Meth : W071416

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.53	168	359199	50.00	ug/L	0.00
40) 1,4-Difluorobenzene	5.83	114	528595	50.00	ug/L	0.00
69) d5-Chlorobenzene	9.18	117	422692	50.00	ug/L	0.00
89) 1,4-Dichlorobenzene-d4	11.29	152	266841	50.00	ug/L	0.00
System Monitoring Compounds						
41) surr4,Dibrflmethane	3.79	113	172198	50.59	ug/L	0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 101.18%			
43) surr1,1,2-dichloroethane-d	4.40	65	147641	48.56	ug/L	0.00
Spiked Amount 50.000	Range 65 - 130		Recovery = 97.12%			
67) SURR3,Toluene-d8	7.87	98	573500	53.94	ug/L	0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 107.88%			
88) SURR2,BFB	10.24	95	217839	53.64	ug/L	0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 107.28%			

Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.05	85	254636	49.41	ug/L	97
3) Chloromethane	1.12	50	251725	47.77	ug/L	99
4) Vinyl Chloride	1.20	62	269774	44.35	ug/L	98
5) Bromomethane	1.38	94	133852	51.70	ug/L	99
6) Chloroethane	1.44	64	131931	44.75	ug/L	96
7) Freon 21	1.47	67	322805	49.40	ug/L	98
8) Freon 123	1.64	83	282333	51.64	ug/L	97
9) Freon 123a	1.67	67	230735	52.75	ug/L	92
10) Acrolein	1.72	56	34179	101.59	ug/L	98
11) Trichlorofluoromethane	1.73	101	270398	49.85	ug/L	100
12) Acetonitrile	1.73	41	52553	220.11	ug/L	94
13) 2-Propanol	1.76	45	95108	974.25	ug/L	97
14) Acetone	1.79	43	24857	49.46	ug/L	93
15) Diethyl Ether	1.87	59	115456	48.60	ug/L	94
16) 1,1-Diclethene	2.03	96	172823	49.66	ug/L	100
17) Iodomethane	2.04	142	257775	59.79	ug/L	98
18) TBA	2.06	59	160441m	1060.22	ug/L	
19) Acrylonitrile	2.07	53	191323	251.47	ug/L	97
20) Methylene Chloride	2.13	84	178001	47.12	ug/L	95
21) Freon 113	2.18	101	173591	47.73	ug/L	98
22) Methyl Acetate	2.18	43	79241	50.03	ug/L	98
23) Allyl Chloride	2.19	76	92652	45.16	ug/L	95
24) Carbon Disulfide	2.24	76	553376	47.70	ug/L	99
25) trans-1,2-Dichloroethene	2.62	96	180638	49.20	ug/L	96
26) Methyl-t-Butyl Ether	2.74	73	348270	50.92	ug/L	99
27) 1,1-Diclethane	2.82	63	294669	51.44	ug/L	99
28) Propionitrile	2.85	54	59609	249.04	ug/L	90
29) Vinyl Acetate	3.02	43	252359	51.75	ug/L	94
30) 2-Chloro-1,3-Butadiene	3.18	53	261528	51.16	ug/L	97
31) 2-Butanone	3.29	43	40023m	48.97	ug/L	
32) Methacrylonitrile	3.38	67	44097	54.30	ug/L	94
33) cis-1,2-Dichloroethene	3.39	96	187295	49.97	ug/L	97
34) Bromochloromethane	3.56	128	79877	49.29	ug/L #	85
35) Chloroform	3.64	83	291569	47.44	ug/L	97
36) 2,2-Dichloropropane	3.72	77	247838	49.49	ug/L	96

DL 7/18/16

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

Quantitation Report (QT Reviewed)

Data File : I:\ACQUDATA\MSVOA6\DATA\071416\D0300.D Vial: 24
Acq On : 14 Jul 2016 7:32 pm Operator: D.LIPANI
Sample : ICV - 50 PPB Inst : MS#6
Misc : 8260C / 624 ICAL GCMS#6 Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Jul 18 16:23 2016 Quant Results File: W071416.RES

Quant Method : I:\ACQUDATA\M...\W071416.M (RTE Integrator)
Title : 8260C / 624 WATERS
Last Update : Mon Jul 18 16:21:59 2016
Response via : Initial Calibration
DataAcq Meth : W071416

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
37)	Ethyl Acetate	3.75	43	87507	52.32	ug/L	92
38)	Tetrahydrofuran	4.06	42	27353	50.70	ug/L	98
39)	1,1,1-Trichloroethane	4.65	97	252453	51.32	ug/L	98
42)	Iso-Butyl Alcohol	3.89	43	70451	1018.86	ug/L	89
44)	1,2-Dichloroethane	4.52	64	56554	48.76	ug/L	93
45)	2-Methyl-1,3-Dioxolane	4.75	73	57985	272.65	ug/L	95
46)	1,1-Dichloropropene	5.01	75	236367	51.94	ug/L	96
47)	Cyclohexane	5.09	56	276763	51.53	ug/L	99
48)	Carbontetrachloride	5.24	119	214158	49.21	ug/L	98
49)	Benzene	5.33	78	646622	48.79	ug/L	98
50)	Isopropyl Acetate	5.35	43	204149	54.23	ug/L	96
51)	Dibromomethane	6.13	93	80410	48.98	ug/L	96
52)	1,2-Diclpropane	6.20	63	172240	50.58	ug/L	99
53)	n-Heptane	6.31	43	185977	46.39	ug/L	98
54)	Trichloroethene	6.28	130	189960	54.30	ug/L	99
55)	Bromodichloromethane	6.33	83	216404	50.11	ug/L	100
56)	2-Nitropropane	6.35	41	41949	105.50	ug/L	92
57)	1,4-Dioxane	6.54	88	14994	986.51	ug/L	78
58)	Epichlorohydrin	6.70	57	41025	239.41	ug/L	93
59)	Methyl Methacrylate	6.72	69	70040	51.44	ug/L	97
60)	n-Propyl Acetate	6.74	43	140237	49.26	ug/L	95
61)	Methylcyclohexane	6.87	55	198576	51.13	ug/L	99
62)	2-Chloroethylvinyl Ether	6.99	63	80674	52.84	ug/L	92
63)	cis-1,3-Dichloropropene	7.15	75	243762	50.55	ug/L	99
64)	4-Methyl-2-pentanone	7.35	43	88217	52.77	ug/L	99
65)	trans-1,3-Dichloropropene	7.64	75	202769	52.87	ug/L	99
66)	1,1,2-Trichloroethane	7.75	97	113486	50.56	ug/L	99
68)	Toluene	7.94	91	632209	46.17	ug/L	100
70)	1,3-Dichloropropane	8.00	76	196186	58.56	ug/L	99
71)	Ethyl Methacrylate	8.18	69	144882	57.37	ug/L	97
72)	Dibromochloromethane	8.19	129	146748	55.18	ug/L	99
73)	2-Hexanone	8.24	43	58068	51.44	ug/L	96
74)	1,2-Dibromoethane	8.41	107	117171	52.91	ug/L	100
75)	n-Butyl Acetate	8.62	43	159326	56.52	ug/L	99
76)	Tetrachloroethene	8.61	164	148799	53.66	ug/L	98
77)	1,1,1,2-Tetrachloroethane	9.15	131	157983	55.88	ug/L	98
78)	Chlorobenzene	9.21	112	415007	50.92	ug/L	99
79)	Ethylbenzene	9.43	106	224215	50.69	ug/L	100
80)	Bromoform	9.60	173	96447	65.41	ug/L	99
81)	(m+p)Xylene	9.61	106	543267	104.27	ug/L	98
82)	o-Xylene	9.93	106	271780	53.87	ug/L	99
83)	Cyclohexanone	9.83	55	57743	1203.76	ug/L	95
84)	Styrene	9.87	104	425503	53.10	ug/L	98
85)	Amyl Acetate	9.98	43	224507	59.69	ug/L	97
86)	trans-1,4-Dichloro-2-Buten	10.10	75	45226	53.84	ug/L	95
87)	Isopropylbenzene	10.24	105	632758	47.61	ug/L	99
90)	1,1,2,2-Tetrachloroethane	9.91	83	135731	50.05	ug/L	99
91)	1,2,3-Trichloropropane	10.03	75	90406	48.74	ug/L	99
92)	Bromobenzene	10.38	156	203830	47.40	ug/L	97
93)	n-Propylbenzene	10.60	91	742025	44.64	ug/L	98

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

Quantitation Report (QT Reviewed)

Data File : I:\ACQUDATA\MSVOA6\DATA\071416\D0300.D Vial: 24
Acq On : 14 Jul 2016 7:32 pm Operator: D.LIPANI
Sample : ICV - 50 PPB Inst : MS#6
Misc : 8260C / 624 ICAL GCMS#6 Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Jul 18 16:23 2016 Quant Results File: W071416.RES

Quant Method : I:\ACQUDATA\M...\W071416.M (RTE Integrator)
Title : 8260C / 624 WATERS
Last Update : Mon Jul 18 16:21:59 2016
Response via : Initial Calibration
DataAcq Meth : W071416

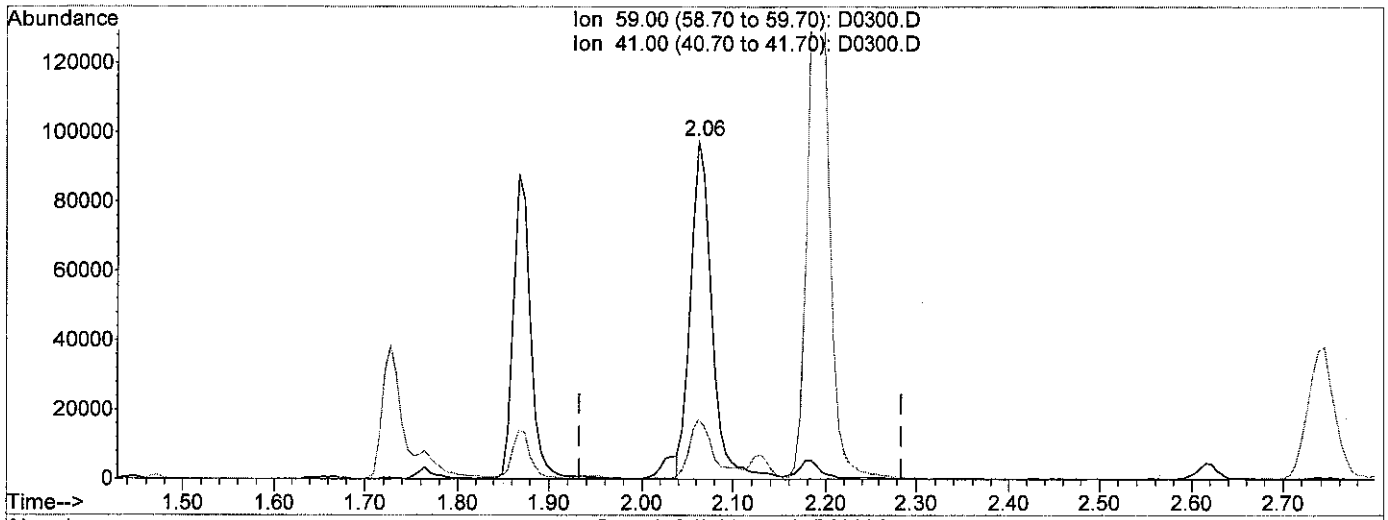
	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
94)	2-Chlorotoluene	10.64	91	470035	46.25 ug/L	99
95)	4-Chlorotoluene	10.71	91	509210	47.68 ug/L	99
96)	1,3,5-Trimethylbenzene	10.86	105	545598	46.64 ug/L	99
97)	tert-Butylbenzene	11.06	119	470541	48.61 ug/L	99
98)	1,2,4-Trimethylbenzene	11.16	105	581836	48.06 ug/L	99
99)	sec-Butylbenzene	11.24	105	670034	47.67 ug/L	100
100)	1,3-Dclbenz	11.25	146	371694	48.01 ug/L	98
101)	1,4-Dclbenz	11.31	146	381359	48.28 ug/L	99
102)	p-Isopropyltoluene	11.40	119	577386	47.50 ug/L	98
103)	1,2-Dclbenz	11.57	146	337550	47.22 ug/L	99
104)	n-Butylbenzene	11.72	91	535640	48.22 ug/L	99
105)	1,2-Dibromo-3-chloropropan	11.94	75	22158	52.93 ug/L	94
106)	Nitrobenzene	12.11	77	7048	96.48 ug/L	79
107)	1,2,4-Tcbenzene	13.01	180	238855	50.88 ug/L	99
108)	Naphthalen	13.19	128	368315	49.50 ug/L	100
109)	Hexachlorobt	13.28	225	111982	48.60 ug/L	98
110)	1,2,3-Tclbenzene	13.34	180	192328	53.21 ug/L	98

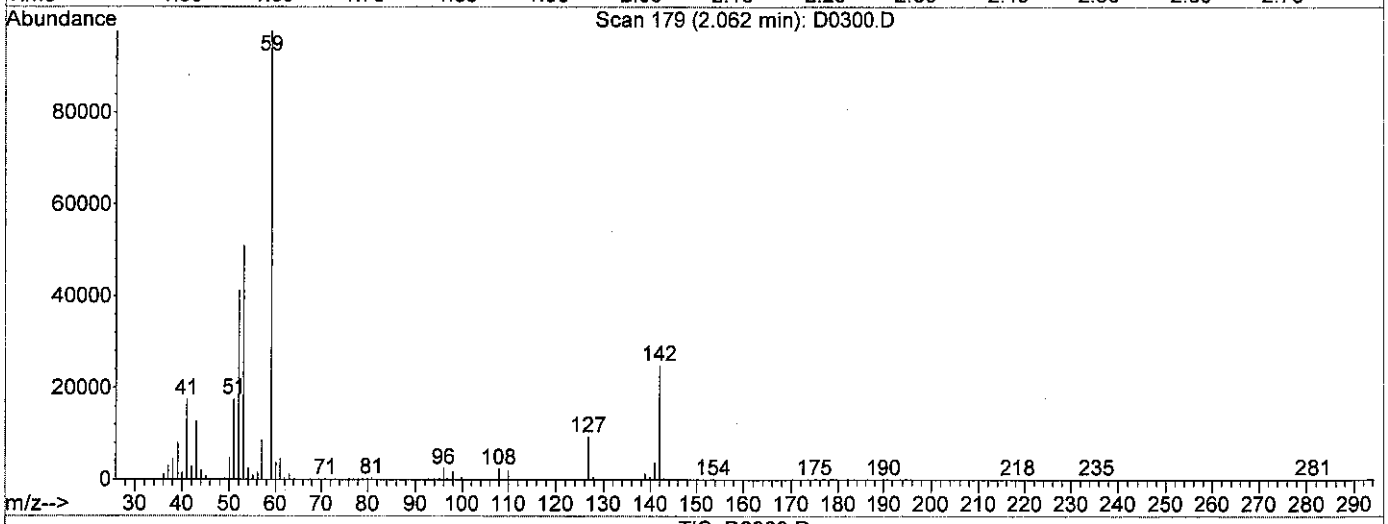
(#) = qualifier out of range (m) = manual integration

Quantitation Report (Qedit)

Data File : I:\ACQUDATA\MSVOA6\DATA\071416\D0300.D Vial: 24
Acq On : 14 Jul 2016 7:32 pm Operator: D.LIPANI
Sample : ICV - 50 PPB Inst : MS#6
Misc : 8260C / 624 ICAL GCMS#6 Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Jul 18 16:23 2016 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA6\METHODS\W071416.M (RTE Integrator)
Title : 8260C / 624 WATERS
Last Update : Mon Jul 18 16:21:59 2016
Response via : Multiple Level Calibration





(18) TBA

2.06min 1060.22ug/L m

response 160441

Ion	Exp%	Act%
59.00	100	100
41.00	19.80	17.73
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

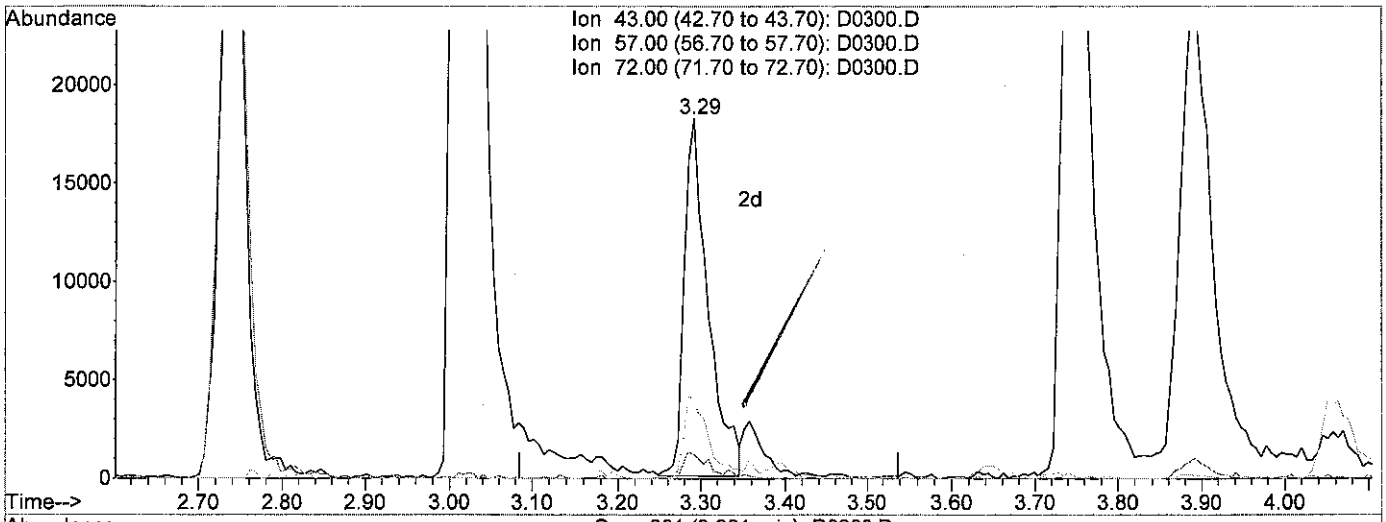
Poor integration.

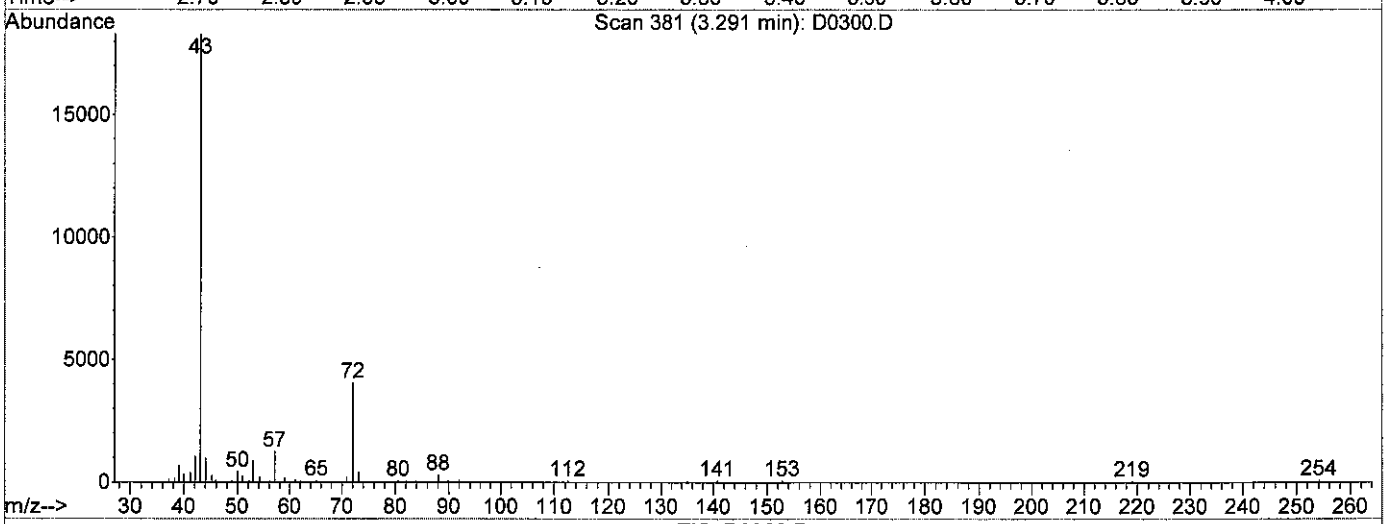
07/18/16 DL

Quantitation Report (Qedit)

Data File : I:\ACQUDATA\MSVOA6\DATA\071416\D0300.D Vial: 24
Acq On : 14 Jul 2016 7:32 pm Operator: D.LIPANI
Sample : ICV - 50 PPB Inst : MS#6
Misc : 8260C / 624 ICAL GCMS#6 Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Jul 18 16:23 2016 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA6\METHODS\W071416.M (RTE Integrator)
Title : 8260C / 624 WATERS
Last Update : Mon Jul 18 16:21:59 2016
Response via : Single Level Calibration





TIC: D0300.D

(31) 2-Butanone (P)

3.29min 44.10ug/L

response 36042

Ion	Exp%	Act%
43.00	100	100
57.00	6.60	6.80
72.00	22.20	22.16
0.00	0.00	0.00

Manual Integration:

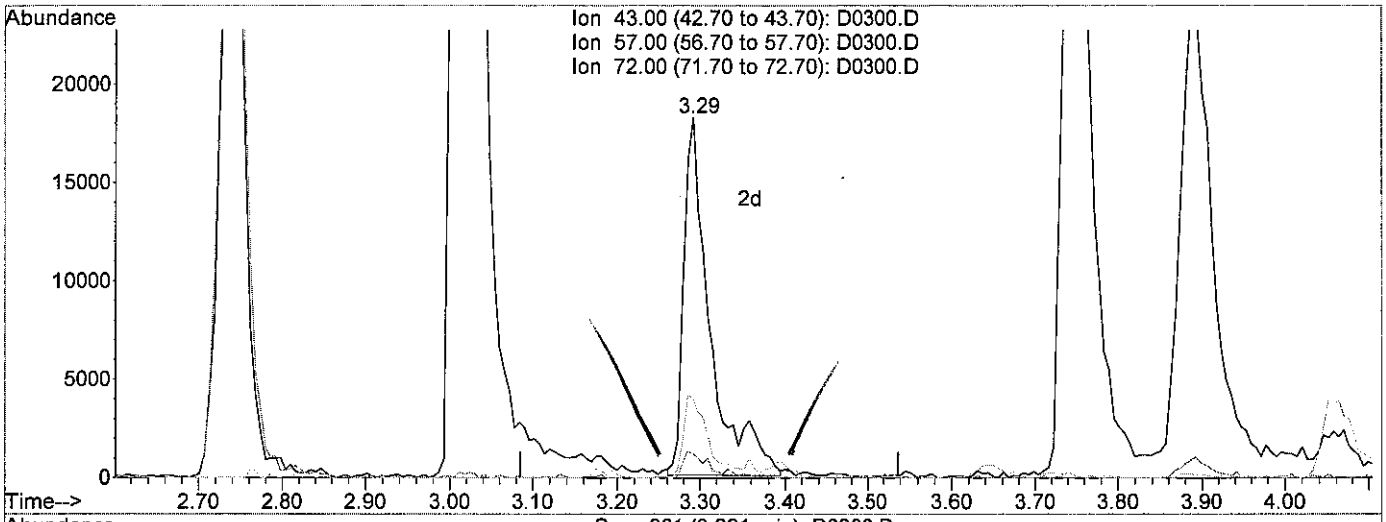
Before

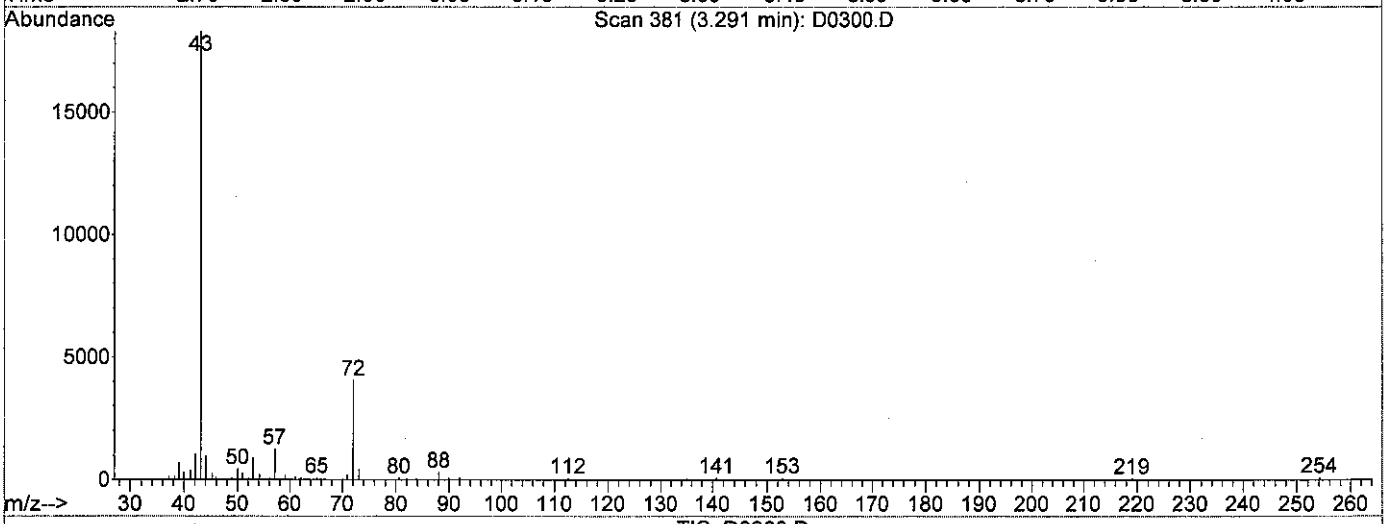
07/18/16

Quantitation Report (Qedit)

Data File : I:\ACQUDATA\MSVOA6\DATA\071416\D0300.D Vial: 24
Acq On : 14 Jul 2016 7:32 pm Operator: D.LIPANI
Sample : ICV - 50 PPB Inst : MS#6
Misc : 8260C / 624 ICAL GCMS#6 Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Jul 18 16:23 2016 Quant Results File: temp.res

Method : I:\ACQUDATA\MSVOA6\METHODS\W071416.M (RTE Integrator)
Title : 8260C / 624 WATERS
Last Update : Mon Jul 18 16:21:59 2016
Response via : Single Level Calibration





(31) 2-Butanone (P)

3.29min 48.97ug/L m

response 40023

Ion	Exp%	Act%
43.00	100	100
57.00	6.60	6.80
72.00	22.20	22.16
0.00	0.00	0.00

Manual Integration:

After

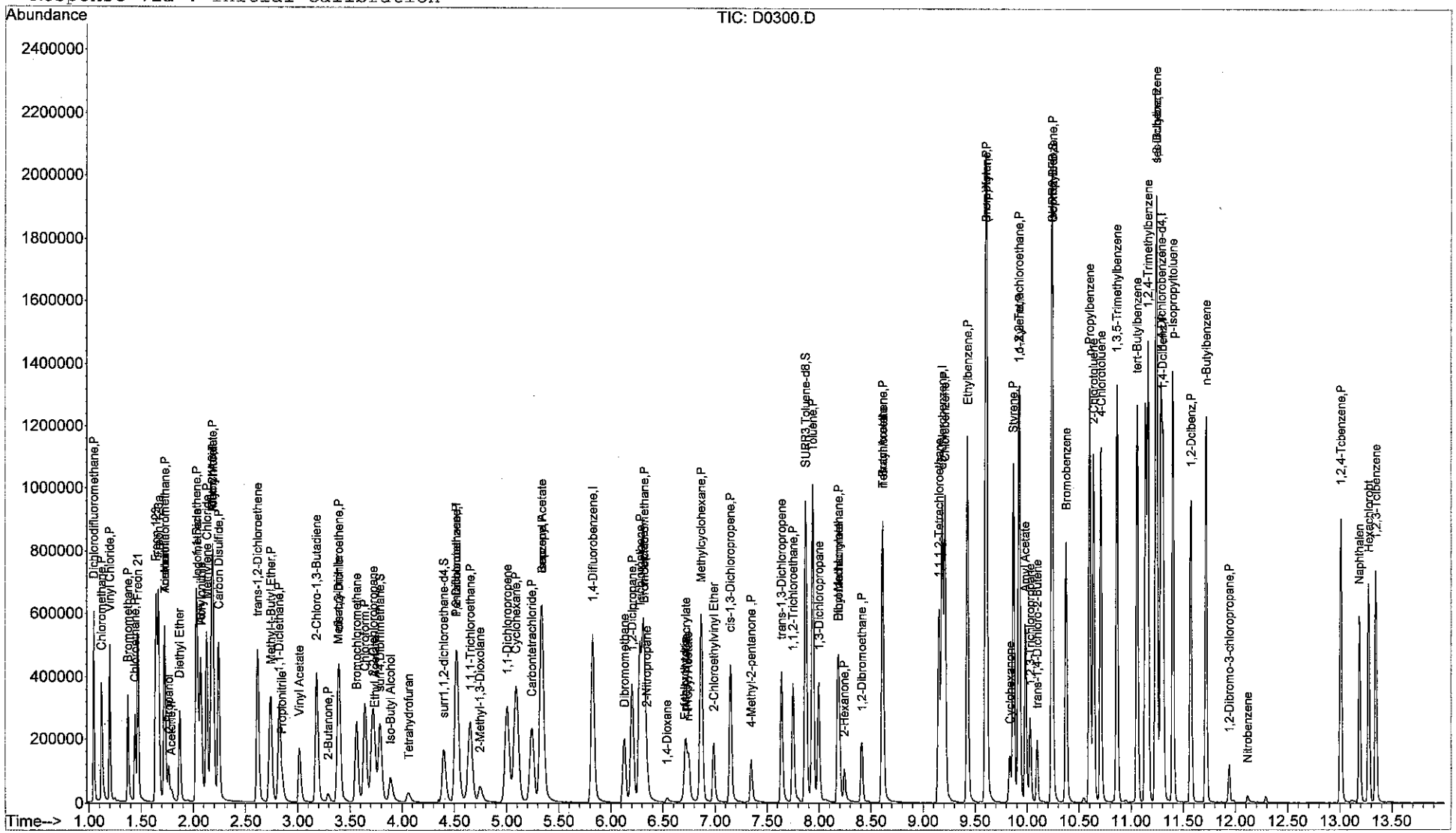
Split Peak.

07/18/16 DL

Quantitation Report

Data File : I:\ACQUDATA\MSVOA6\DATA\071416\D0300.D Vial: 24
Acq On : 14 Jul 2016 7:32 pm Operator: D.LIPANI
Sample : ICV - 50 PPB Inst : MS#6
Misc : 8260C / 624 ICAL GCMS#6 Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Jul 18 16:23 2016 Quant Results File: W071416.RES

Method : I:\ACQUDATA\MSVOA6\METHODS\W071416.M (RTE Integrator)
Title : 8260C / 624 WATERS
Last Update : Mon Jul 18 16:21:59 2016
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : I:\ACQUDATA\MSVOA6\DATA\071516\D0305.D Vial: 6
Acq On : 15 Jul 2016 10:14 am Operator: D.LIPANI
Sample : ICV#2 50 PPB (bromoform only) Inst : MS#6
Misc : 8260C / 624 Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Jul 15 13:58 2016 Quant Results File: W071416.RES

Quant Method : I:\ACQUDATA\M...\W071416.M (RTE Integrator)
Title : 8260C / 624 WATERS
Last Update : Fri Jul 15 13:11:21 2016
Response via : Initial Calibration
DataAcq Meth : W071416

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Pentafluorobenzene	4.52	168	337864	50.00 ug/L	0.00
40) 1,4-Difluorobenzene	5.82	114	492839	50.00 ug/L	0.00
69) d5-Chlorobenzene	9.18	117	405007	50.00 ug/L	0.00
89) 1,4-Dichlorobenzene-d4	11.29	152	245638	50.00 ug/L	0.00
System Monitoring Compounds					
41) surr4,Dibrflmethane	3.79	113	161994	51.05 ug/L	0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 102.10%		
43) surr1,1,2-dichloroethane-d	4.40	65	136664	48.21 ug/L	0.00
Spiked Amount 50.000	Range 65 - 130		Recovery = 96.42%		
67) SURR3,Toluene-d8	7.87	98	533894	53.85 ug/L	0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 107.70%		
88) SURR2,BFB	10.23	95	206816	53.15 ug/L	0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 106.30%		

Target Compounds					Qvalue
13) 2-Propanol	1.77	45	824	8.97 ug/L	90
14) Acetone	1.79	43	344	0.73 ug/L	82
16) 1,1-Diclethene	2.03	96	158570	48.44 ug/L	98
17) Iodomethane	2.04	142	1068	1.19 ug/L	89
20) Methylene Chloride	2.13	84	168281	47.36 ug/L	97
21) Freon 113	2.18	101	172866	50.53 ug/L	96
25) trans-1,2-Dichloroethene	2.62	96	169319	49.03 ug/L	96
27) 1,1-Diclethane	2.83	63	287474	53.36 ug/L	99
33) cis-1,2-Dichloroethene	3.39	96	173790	49.29 ug/L	100
35) Chloroform	3.64	83	279323	48.32 ug/L	98
39) 1,1,1-Trichloroethane	4.65	97	241019	52.09 ug/L	99
44) 1,2-Dichloroethane	4.52	64	52093	48.17 ug/L	97
48) Carbontetrachloride	5.24	119	206113	50.79 ug/L	98
49) Benzene	5.33	78	618599	50.07 ug/L	98
52) 1,2-Diclpropane	6.20	63	157649	49.65 ug/L	99
53) n-Heptane	6.30	43	1007	0.27 ug/L #	77
54) Trichloroethene	6.27	130	178156	54.62 ug/L	99
55) Bromodichloromethane	6.32	83	199132	49.45 ug/L	100
60) n-Propyl Acetate	6.78	43	74	Below Cal #	54
63) cis-1,3-Dichloropropene	7.15	75	233691	51.97 ug/L	99
65) trans-1,3-Dichloropropene	7.64	75	182469	51.03 ug/L	99
66) 1,1,2-Trichloroethane	7.75	97	104740	50.04 ug/L	98
68) Toluene	7.94	91	587928	46.05 ug/L	100
72) Dibromochloromethane	8.19	129	131297	51.52 ug/L	97
76) Tetrachloroethene	8.61	164	135354	50.94 ug/L	98
78) Chlorobenzene	9.21	112	398186	50.99 ug/L	99
79) Ethylbenzene	9.42	106	214004	50.49 ug/L	99
80) Bromoform	9.60	173	81271	57.53 ug/L	99
81) (m+p)Xylene	9.61	106	513694	102.90 ug/L	99
82) o-Xylene	9.92	106	260866	53.97 ug/L	97
90) 1,1,2,2-Tetrachloroethane	9.91	83	121737	48.76 ug/L	99
100) 1,3-Dclbenz	11.25	146	339433	47.63 ug/L	99
101) 1,4-Dclbenz	11.30	146	337647	46.44 ug/L	98
103) 1,2-Dclbenz	11.57	146	313138	47.59 ug/L	98
104) n-Butylbenzene	11.72	91	2520	0.25 ug/L	91

DL 7/15/16

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

Quantitation Report (QT Reviewed)

Data File : I:\ACQUDATA\MSVOA6\DATA\071516\D0305.D Vial: 6
Acq On : 15 Jul 2016 10:14 am Operator: D.LIPANI
Sample : ICV#2 50 PPB Inst : MS#6
Misc : 8260C / 624 Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Jul 15 13:58 2016 Quant Results File: W071416.RES

Quant Method : I:\ACQUDATA\M...\W071416.M (RTE Integrator)
Title : 8260C / 624 WATERS
Last Update : Fri Jul 15 13:11:21 2016
Response via : Initial Calibration
DataAcq Meth : W071416

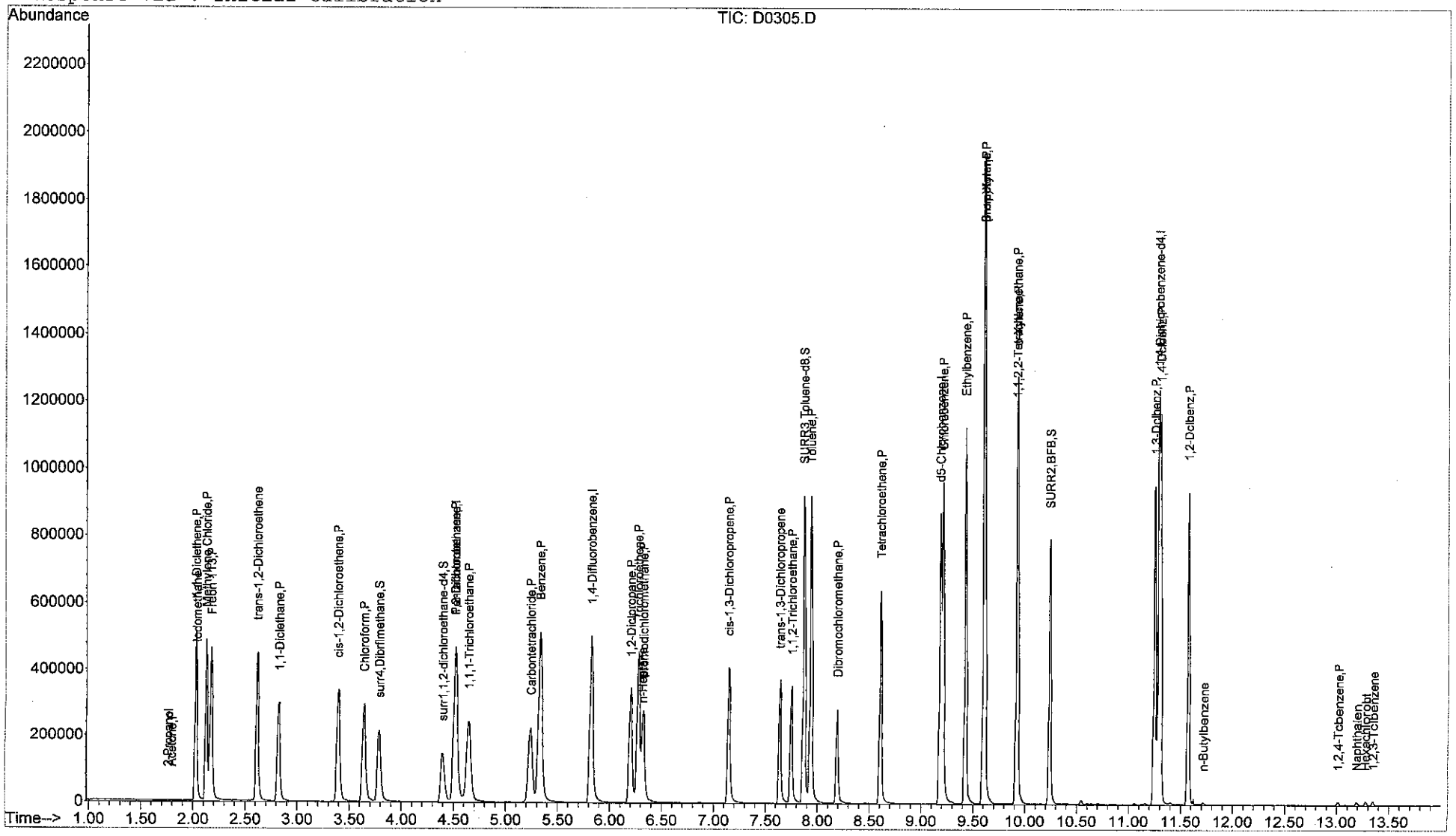
Compound	R.T.	QIon	Response	Conc Unit	Qvalue
107) 1,2,4-Tcbenzene	13.01	180	2713	0.63 ug/L	95
108) Naphthalen	13.19	128	5989	0.87 ug/L	98
109) Hexachlorobt	13.27	225	1678	0.79 ug/L	87
110) 1,2,3-Tclbenzene	13.35	180	3141	0.94 ug/L	91

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

Quantitation Report

Data File : I:\ACQUDATA\MSVOA6\DATA\071516\D0305.D Vial: 6
Acq On : 15 Jul 2016 10:14 am Operator: D.LIPANI
Sample : ICV#2 50 PPB Inst : MS#6
Misc : 8260C / 624 Multiplr: 1.00
MS Integration Params: CPD4.P
Quant Time: Jul 15 13:58 2016 Quant Results File: W071416.RES

Method : I:\ACQUDATA\MSVOA6\METHODS\W071416.M (RTE Integrator)
Title : 8260C / 624 WATERS
Last Update : Fri Jul 15 13:11:21 2016
Response via : Initial Calibration



Client: ALS Environmental - Canada **Service Request:** R1607963
Project: Picatinny Arsenal **Calibration Date:** 7/14/2016

Initial Calibration Summary
Volatile Organic Compounds by GC/MS

Calibration ID: RC1600073 **Signal ID:** 1
Instrument ID: R-MS-06

#	Lab Code	Sample Name	File Location	Aquisition Date
10	RC1600073-10	STD #1 - 0.5 PPB	I:\ACQUDATA\MSVOA6\DATA\071416\D0289.D	07/14/2016 13:27
09	RC1600073-09	STD #2 - 1.0 PPB	I:\ACQUDATA\MSVOA6\DATA\071416\D0290.D	07/14/2016 14:02
08	RC1600073-08	STD #3 - 2.0 PPB	I:\ACQUDATA\MSVOA6\DATA\071416\D0291.D	07/14/2016 14:34
07	RC1600073-07	STD #4 - 5.0 PPB	I:\ACQUDATA\MSVOA6\DATA\071416\D0292.D	07/14/2016 15:12
06	RC1600073-06	STD #5 - 20 PPB	I:\ACQUDATA\MSVOA6\DATA\071416\D0293.D	07/14/2016 15:44
05	RC1600073-05	STD #6 - 50 PPB	I:\ACQUDATA\MSVOA6\DATA\071416\D0294.D	07/14/2016 16:15
04	RC1600073-04	STD #7 - 100 PPB	I:\ACQUDATA\MSVOA6\DATA\071416\D0295.D	07/14/2016 16:46
03	RC1600073-03	STD #8 - 150 PPB	I:\ACQUDATA\MSVOA6\DATA\071416\D0296.D	07/14/2016 17:20
02	RC1600073-02	STD #9 - 200 PPB	I:\ACQUDATA\MSVOA6\DATA\071416\D0297.D	07/14/2016 17:57

Analyte

Benzene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
10	0.500	1.231	09	1.000	1.397	08	2.000	1.253	07	5.000	1.304
06	20.000	1.362	05	50.000	1.276	04	100.000	1.148	03	150.000	1.058

Trichloroethene (TCE)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
10	0.500	0.3227	09	1.000	0.3186	08	2.000	0.316	07	5.000	0.3323
06	20.000	0.3645	05	50.000	0.3532	04	100.000	0.3281	03	150.000	0.3261
02	200.000	0.3165									

4-Bromofluorobenzene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
05	50.000	0.523	08	60.000	0.4894	07	70.000	0.4706	06	100.000	0.4498
04	125.000	0.4567	03	150.000	0.4926						

Dibromofluoromethane

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
05	50.000	0.3334	08	60.000	0.3286	07	70.000	0.3218	06	100.000	0.3139
04	125.000	0.3163	03	150.000	0.3177						

Toluene-d8

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
05	50.000	1.122	08	60.000	1.081	07	70.000	1.066	06	100.000	0.9856
04	125.000	0.9051	03	150.000	0.8751						

Client: ALS Environmental - Canada
Project: Picatinny Arsenal

Service Request: R1607963
Calibration Date: 7/14/2016

Initial Calibration Summary
Volatile Organic Compounds by GC/MS

Calibration ID: RC1600073
Instrument ID: R-MS-06

Signal ID: 1

		Calibration Evaluation				Calibration Evaluation	
Analyte Name	Compound Type	Fit Type	Eval	Eval Result	Control Criteria	Average RRF	Minimum RRF
Benzene	TRG	Average RF	% RSD	8.8	≤20	1.254	0.500
Trichloroethene (TCE)	TRG	Average RF	% RSD	5.1	≤20	0.3309	0.200
4-Bromofluorobenzene	SURR	Average RF	% RSD	5.6	≤20	0.4804	
Dibromofluoromethane	SURR	Average RF	% RSD	2.4	≤20	0.3220	
Toluene-d8	SURR	Average RF	% RSD	10.0	≤20	1.006	

Client: ALS Environmental - Canada **Service Request:** R1607963
Project: Picatinny Arsenal **Calibration Date:** 7/14/2016

Initial Calibration Summary
Volatile Organic Compounds by GC/MS

Calibration ID: RC1600073 **Signal ID:** 1
Instrument ID: R-MS-06

#	Lab Code	Sample Name	File Location	Aquisition Date
10	RC1600073-10	STD #1 - 0.5 PPB	I:\ACQUDATA\MSVOA6\DATA\071416\D0289.D	07/14/2016 13:27
09	RC1600073-09	STD #2 - 1.0 PPB	I:\ACQUDATA\MSVOA6\DATA\071416\D0290.D	07/14/2016 14:02
08	RC1600073-08	STD #3 - 2.0 PPB	I:\ACQUDATA\MSVOA6\DATA\071416\D0291.D	07/14/2016 14:34
07	RC1600073-07	STD #4 - 5.0 PPB	I:\ACQUDATA\MSVOA6\DATA\071416\D0292.D	07/14/2016 15:12
06	RC1600073-06	STD #5 - 20 PPB	I:\ACQUDATA\MSVOA6\DATA\071416\D0293.D	07/14/2016 15:44
05	RC1600073-05	STD #6 - 50 PPB	I:\ACQUDATA\MSVOA6\DATA\071416\D0294.D	07/14/2016 16:15
04	RC1600073-04	STD #7 - 100 PPB	I:\ACQUDATA\MSVOA6\DATA\071416\D0295.D	07/14/2016 16:46
03	RC1600073-03	STD #8 - 150 PPB	I:\ACQUDATA\MSVOA6\DATA\071416\D0296.D	07/14/2016 17:20
02	RC1600073-02	STD #9 - 200 PPB	I:\ACQUDATA\MSVOA6\DATA\071416\D0297.D	07/14/2016 17:57

Analyte

Benzene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
10	0.500	1.231	09	1.000	1.397	08	2.000	1.253	07	5.000	1.304
06	20.000	1.362	05	50.000	1.276	04	100.000	1.148	03	150.000	1.058

Trichloroethene (TCE)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
10	0.500	0.3227	09	1.000	0.3186	08	2.000	0.316	07	5.000	0.3323
06	20.000	0.3645	05	50.000	0.3532	04	100.000	0.3281	03	150.000	0.3261
02	200.000	0.3165									

4-Bromofluorobenzene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
05	50.000	0.523	08	60.000	0.4894	07	70.000	0.4706	06	100.000	0.4498
04	125.000	0.4567	03	150.000	0.4926						

Dibromofluoromethane

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
05	50.000	0.3334	08	60.000	0.3286	07	70.000	0.3218	06	100.000	0.3139
04	125.000	0.3163	03	150.000	0.3177						

Toluene-d8

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
05	50.000	1.122	08	60.000	1.081	07	70.000	1.066	06	100.000	0.9856
04	125.000	0.9051	03	150.000	0.8751						

Client: ALS Environmental - Canada
Project: Picatinny Arsenal

Service Request: R1607963
Calibration Date: 7/14/2016

Initial Calibration Summary
Volatile Organic Compounds by GC/MS

Calibration ID: RC1600073
Instrument ID: R-MS-06

Signal ID: 1

		Calibration Evaluation				Calibration Evaluation	
Analyte Name	Compound Type	Fit Type	Eval	Eval Result	Control Criteria	Average RRF	Minimum RRF
Benzene	TRG	Average RF	% RSD	8.8	≤20	1.254	0.500
Trichloroethene (TCE)	TRG	Average RF	% RSD	5.1	≤20	0.3309	0.200
4-Bromofluorobenzene	SURR	Average RF	% RSD	5.6	≤20	0.4804	
Dibromofluoromethane	SURR	Average RF	% RSD	2.4	≤20	0.3220	
Toluene-d8	SURR	Average RF	% RSD	10.0	≤20	1.006	

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: ALS Environmental - Canada **Service Request:** R1607963
Project: Picatinny Arsenal **Calibration Date:** 7/14/2016

Initial Calibration Verification Summary
Volatile Organic Compounds by GC/MS

Calibration ID: RC1600073 **Signal ID:** 1
Instrument ID: R-MS-06

#	Lab Code	Sample Name	File Location	Aquisition Date
01	RC1600073-01	ICV - 50 PPB	I:\ACQUDATA\MSVOA6\DATA\071416\D0300.D	07/14/2016 19:32
11	RC1600073-11	ICV#2 50 PPB	I:\ACQUDATA\MSVOA6\DATA\071516\D0305.D	07/15/2016 10:14

Analyte Name	Expected	Result	Average RF	SSV RF	% D	Criteria	Curve Fit
Benzene	50.0	48.8	1.254	1.223	-2.413	±30	Average RF
Trichloroethene (TCE)	50.0	54.3	0.331	0.359	8.61	±30	Average RF
4-Bromofluorobenzene	50.0	53.6	0.480	0.515	7.28	±30	Average RF
Dibromofluoromethane	50.0	50.6	0.322	0.326	1.18	±30	Average RF
Toluene-d8	50.0	53.9	1.006	1.085	7.87	±30	Average RF

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: ALS Environmental - Canada
Project: Picatinny Arsenal

Service Request: R1607963
Calibration Date: 7/14/2016

Initial Calibration Verification Summary
Volatile Organic Compounds by GC/MS

Calibration ID: RC1600073
Instrument ID: R-MS-06

Signal ID: 1

#	Lab Code	Sample Name	File Location	Aquisition Date
01	RC1600073-01	ICV - 50 PPB	I:\ACQUDATA\MSVOA6\DATA\071416\D0300.D	07/14/2016 19:32
11	RC1600073-11	ICV#2 50 PPB	I:\ACQUDATA\MSVOA6\DATA\071516\D0305.D	07/15/2016 10:14

Analyte Name	Expected	Result	Average RF	SSV RF	% D	Criteria	Curve Fit
Benzene	50.0	48.8	1.254	1.223	-2.413	±30	Average RF
Trichloroethene (TCE)	50.0	54.3	0.331	0.359	8.61	±30	Average RF
4-Bromofluorobenzene	50.0	53.6	0.480	0.515	7.28	±30	Average RF
Dibromofluoromethane	50.0	50.6	0.322	0.326	1.18	±30	Average RF
Toluene-d8	50.0	53.9	1.006	1.085	7.87	±30	Average RF

Client: ALS Environmental - Canada
Project: Picatinny Arsenal

Service Request: R1607963
Date Analyzed: 08/02/16 09:52

Continuing Calibration Verification (CCV) Summary
Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
File ID: I:\ACQUDATA\MSVOA6\DATA\080216\D0620.D\

Calibration Date: 7/14/2016
Calibration ID: RC1600073
Analysis Lot: 508119
Units: ug/L

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
Benzene	50.0	50.7	1.3	1.3	1.5	NA	±20	Average RF
Trichloroethene (TCE)	50.0	52.0	0.3	0.3	3.9	NA	±20	Average RF
4-Bromofluorobenzene	50.0	54.2	0.5	0.5	8.3	NA	±20	Average RF
Dibromofluoromethane	50.0	51.0	0.3	0.3	2.0	NA	±20	Average RF
Toluene-d8	50.0	54.8	1.0	1.1	9.6	NA	±20	Average RF

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QA/QC Report

Client: ALS Environmental - Canada **Service Request:**R1607963
Project: Picatinny Arsenal

Analysis Run Log
Volatile Organic Compounds by GC/MS

Analysis Method: 8260C **Analysis Lot:**508119
Instrument ID:R-MS-06

Raw Data File	Sample Name	Lab Code	Date Analyzed	Time Analyzed	Q
I:\ACQUDATA\MSVOA6\DATA\080216\D0619.D\	ZZZZZZZ	ZZZZZZZ	8/2/2016	09:07:00	
I:\ACQUDATA\MSVOA6\DATA\080216\D0620.D\	Continuing Calibration Verification	RQ1609075-02	8/2/2016	09:52:00	
I:\ACQUDATA\MSVOA6\DATA\080216\D0621.D\	Lab Control Sample	RQ1609075-03	8/2/2016	10:32:00	
I:\ACQUDATA\MSVOA6\DATA\080216\D0623.D\	Method Blank	RQ1609075-04	8/2/2016	11:35:00	
I:\ACQUDATA\MSVOA6\DATA\080216\D0624.D\	PY-1028	R1607963-024	8/2/2016	12:07:00	
I:\ACQUDATA\MSVOA6\DATA\080216\D0625.D\	PY-2010C	R1607963-009	8/2/2016	12:38:00	
I:\ACQUDATA\MSVOA6\DATA\080216\D0626.D\	T1R1-TB1	R1607963-007	8/2/2016	13:11:00	
I:\ACQUDATA\MSVOA6\DATA\080216\D0627.D\	PY-1027	R1607963-023	8/2/2016	13:42:00	
I:\ACQUDATA\MSVOA6\DATA\080216\D0628.D\	PY-2037	R1607963-025	8/2/2016	14:15:00	
I:\ACQUDATA\MSVOA6\DATA\080216\D0629.D\	PY-3026	R1607963-026	8/2/2016	14:46:00	
I:\ACQUDATA\MSVOA6\DATA\080216\D0630.D\	PY-1013	R1607963-003	8/2/2016	15:18:00	
I:\ACQUDATA\MSVOA6\DATA\080216\D0631.D\	PY-2022	R1607963-013	8/2/2016	15:50:00	
I:\ACQUDATA\MSVOA6\DATA\080216\D0632.D\	PY-3013	R1607963-020	8/2/2016	16:26:00	
I:\ACQUDATA\MSVOA6\DATA\080216\D0633.D\	ZZZZZZZ	ZZZZZZZ	8/2/2016	17:06:00	
I:\ACQUDATA\MSVOA6\DATA\080216\D0635.D\	ZZZZZZZ	ZZZZZZZ	8/2/2016	18:10:00	
I:\ACQUDATA\MSVOA6\DATA\080216\D0636.D\	ZZZZZZZ	ZZZZZZZ	8/2/2016	18:42:00	
I:\ACQUDATA\MSVOA6\DATA\080216\D0637.D\	PY-2022 MS	RQ1609075-05	8/2/2016	19:13:00	
I:\ACQUDATA\MSVOA6\DATA\080216\D0638.D\	PY-2022 DMS	RQ1609075-06	8/2/2016	19:44:00	
I:\ACQUDATA\MSVOA6\DATA\080216\D0639.D\	PY-2010C MS	RQ1609075-07	8/2/2016	20:16:00	
I:\ACQUDATA\MSVOA6\DATA\080216\D0640.D\	PY-2010C DMS	RQ1609075-08	8/2/2016	20:47:00	
I:\ACQUDATA\MSVOA6\DATA\080216\D0642.D\	ZZZZZZZ	ZZZZZZZ	8/2/2016	21:50:00	

Analysis: 8260C/624	Analyst: D. Lipani	Tune Method: W071416.M
Date: 08/02/16	Data Path: j:\acqudata\msvoa6 \DATA\080216\...	Run Method: ↓ ↓ ↓
Instr. GCMS#6		LIMS Run#: 508119

Pos.	Sample	Diln.	Diln. Prep.	RL	Tier	Vial	pH	File#	OK?	Comments
1	Blk							D0618	Y	
2	Tune Check		(Run as a Blk)					↓ 19	Y	
3	CCV							D0620	Y	
4	LCS							21	Y	
5	Met Blk							22	N	x-over
6	Met Blk							23	Y	
7	R1607963-024	1.0	(8260C)	15947	IV	-1	6	24	Y	
8	-009	1.0	sample in soil jar!	945		-1	6	25	Y	Decanted water from soil jar!
9	-007	1.0		↓		-1	<2	26	Y	
10	-023	1.0		947		-1	6	27	Y	
11	-025	1.0		↓		-1	6	28	Y	
12	-026	1.0		↓		-1	6	29	Y	
13	-003	1.0	- composited!	945		C-1	<2	D0630	Y	
14	-013	1.0				C-1	<2	31	Y	
15	-020	1.0				C-1	<2	32	Y	
16	R1607886-001	5.0	10mL/50mL (624) neg ← Residual Chlorine	15244	II	-2	<2	33	Y	
17	Blk			—	—	—	—	34	Y	
18	R1608000-006	1.0	(624) neg	11868	II	-1	6	35	Y	
19	↓ -003	2.5	20mL/50mL (composited) neg	↓	↓	C-1	6	36	Y	MS/MSDs:
20	R1607963-013MS	1.0	(8260C) —	15945	IV	C-2	<2	37	Y	173918 4.2ul } into
21	↓ -013MSD	1.0	—			C-3	<2	38	Y	173941 4.2ul } full vials
22	R1607963-009MS	1.0	—			-2	6	39	Y	173942 10.6ul } sample.
23	↓ -009MSD	1.0	—	↓	↓	-2	6	D0640	Y	↓ ↓
24	Blk		—	—	—	—	—	41	O.K.	
25	R1607997-001	1.0	(624) neg	11852	I	-1	6	42	Y	
26	Blk		—	—	—	—	—	43	Y	
	EOD DL 8-2-16									

All samples = 10 mL + 1.0 uL combined IS/Surr. 10 mL purged

Primary TG : 174329 5.0ul
Primary HSL : 174207 ↓
Primary Fr+ : 174462 ↓
Primary :
Primary :
/ 50mL DI = CCV.

Secondary TG : 173918 2.0ul
Secondary HSL : 173941 2.0ul
Secondary Fr+ : 173942 5.0ul
Secondary ~~EK+~~ : DL 8-2-16
Secondary :
/ 50mL DI = LCS.

Combined IS/Surr 500 : 174538
Surrogate : —
Internal Std : —

Analysis: 8260C/624 Analyst: D. Lipari Tune Method: W071416.M
Date: (DL) ~~07/15/16~~ 07/14/16 Data Path: j:\acqudata\msvoa 6 \DATA\071516\... Run Method: ↓ ↓ ↓
Instr. GCMS#6 LIMS Run#: ICAL

Pos.	Sample	Diln.	Diln. Prep.	RL	Tier	Vial	pH	File#	OK?	Comments
→		→	Back to 10ml purge, split = 60:1							
1	Blk							D0279	O.K.	
2	Blk							D0280	Y	
3	Tune Check		(Run as a Blk)					81	N	→ used wrong method ~~to~~ (DL) W071316
4	Tune Check		" " "					82	Y	
5	Inst Blk		DL					83	Y	
		Surr	1° Targ ~~5.0~~ 1° Targ 1° TG							Final
		500	5.0 10 500							Volume DI
6	STD #1 - 0.5ppb	—	5.0µl — —					D0284	N	50mL
7	#2 - 1.0ppb	—	— 5.0µl —					85	N	50mL
→		Note:	Not sensitive enough for some compounds at low end - put split at 50:1 and restart							
8	Blk - split = 50:1							D0286	Y	
9	Tune Check							87	Y	
10	Inst Blk							88	Y	
		Surr	1° Targ 1° Targ 1° TG 1° HSL	1° Fr+	1°	EK+				Final
		500	5.0 10 500 500	500		500				Volume DI
11	STD #1 - 0.5ppb	—	5.0µl — — —	—		—		D0289	Y	50ml
12	#2 - 1.0ppb	—	— 5.0µl — —	—		—		D0290	Y	50ml
13	#3 - 2.0ppb	1.0µl	— 10µl — —	—		—		91	Y	~~200mL~~ 50mL ? corrections
14	#4 - 5.0ppb	8.0µl	— — 2.0µl	→		→		92	Y	~~50mL~~ 200mL) DL 7/14/16
15	#5 - 20ppb	5.0µl	— — 2.0µl	→		→		93	Y	50mL
16	#6 - 50ppb	—	— — 5.0µl	→		→		94	Y	↓
17	#7 - 100ppb	7.5µl	— — 10µl	→		→		95	Y	
18	#8 - 150ppb	10µl	— — 15µl	→		→		96	Y	
19	#9 - 200ppb	—	— — 20µl	→		→		97	Y	
20	Blk							98	N	x-over
21	Blk							99	Y	
22	ICV - 50ppb							D0300	Y	except bromoform just ↑
23-34	Blks							D0301-D0312	Y	
	EOD DL 7-14-16									

All samples = 10 mL + 1.0 uL combined IS/Surr. 10 mL purged

Primary TG : 173939 10µl
Primary HSL : 173847
Primary Fr+ : 173940
Primary EK+ : 174084
Primary :

1.0mL MeOH = 1° Targ 5.0 ; 20µl 1.0mL MeOH = 1° Targ 10

Secondary TG : 173918 ~~2.0µl~~ 5.0µl
Secondary HSL : 173941 ~~2.0µl~~ 5.0µl
Secondary Fr+ : 173942 12.5µl
Secondary EK+ : 173622 12.5µl
Secondary :

50mL DI = ICV

Combined IS/Surr 500 : 174027
Surrogate 500 : 173507
Internal Std : —

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client:	ALS Environmental - Canada	**Service Request:**	R1607963
Project:	Picatinny Arsenal	**Date Collected:**	07/29/16 15:45
Sample Matrix:	Soil	**Date Received:**	07/30/16 13:45
Sample Name:	PY-3006B	**Units:**	ug/Kg
Lab Code:	R1607963-017	**Basis:**	As Received

Volatile Organic Compounds by GC/MS, Unpreserved

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Benzene	5.0 U	5.0	1	08/04/16 19:54	
Trichloroethene (TCE)	**6.7**	5.0	1	08/04/16 19:54	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	101	51 - 136	08/04/16 19:54	
Dibromofluoromethane	33 *	63 - 138	08/04/16 19:54	*
Toluene-d8	103	66 - 138	08/04/16 19:54	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client:	ALS Environmental - Canada	**Service Request:**	R1607963
Project:	Picatinny Arsenal	**Date Collected:**	07/29/16 15:45
Sample Matrix:	Soil	**Date Received:**	07/30/16 13:45
Sample Name:	PY-3006B	**Units:**	ug/Kg
Lab Code:	R1607963-017	**Basis:**	As Received

Volatile Organic Compounds by GC/MS, Unpreserved

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Benzene	**31**	25	5.05	08/07/16 00:35	
Trichloroethene (TCE)	25 U	25	5.05	08/07/16 00:35	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	112	51 - 136	08/07/16 00:35	
Dibromofluoromethane	58 *	63 - 138	08/07/16 00:35	*
Toluene-d8	127	66 - 138	08/07/16 00:35	

1st FN 08/05/16
2nd WR 08/05/16

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA14\Data\080416\
Data File : B7358.D
Acq On : 4 Aug 2016 7:54 pm
Operator : F.Naegler
Sample : R1607963-017|1.00 Inst : MSVOA14
Misc : ALS 15946 T4
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Aug 05 10:11:10 2016
Quant Method : I:\ACQUDATA\MSVOA14\Methods\S080316.M
Quant Title : MS#14 - 8260 SOILS 10ml PURGE
QLast Update : Wed Aug 03 16:40:37 2016
Response via : Initial Calibration

TCE & 12-DCB only, NT's not evaluated

SURR LOW

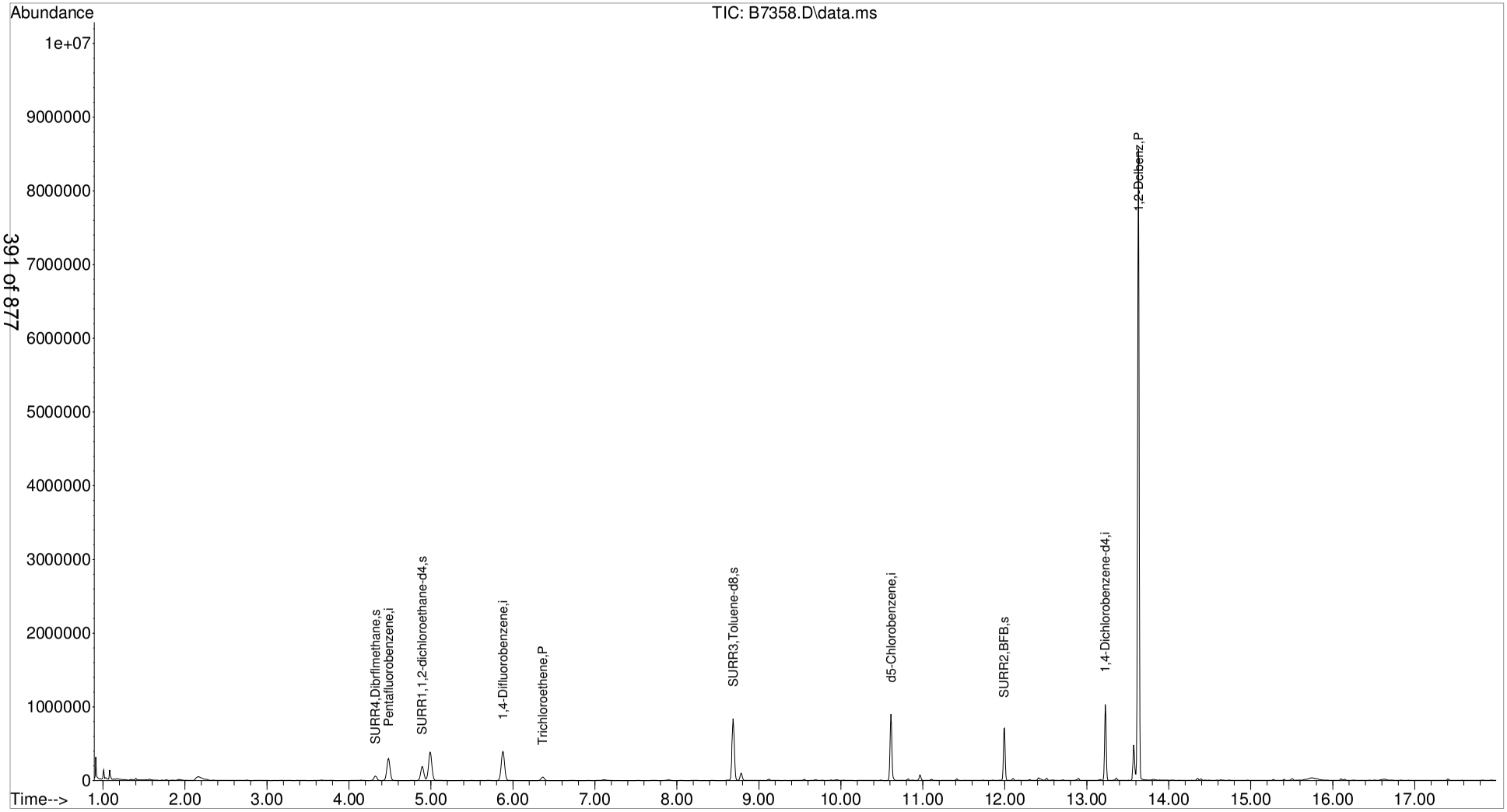
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
Internal Standards							
1) Pentafluorobenzene	4.484	168	294135	50.00	ug/L	0.00	
42) 1,4-Difluorobenzene	5.880	114	501553	50.00	ug/L	0.00	
70) d5-Chlorobenzene	10.610	117	453931	50.00	ug/L	0.00	
87) 1,4-Dichlorobenzene-d4	13.226	152	220590	50.00	ug/L	0.00	
System Monitoring Compounds							
44) SURR4,Dibrflmethane	4.319	113	49049	16.38	ug/L	0.00	
Spiked Amount 50.000	Range 63 - 138		Recovery = 32.76%#				*
47) SURR1,1,2-dichloroetha...	4.892	65	180341	53.39	ug/L	0.00	
Spiked Amount 50.000	Range 67 - 128		Recovery = 106.78%				
64) SURR3,Toluene-d8	8.684	98	629873	51.35	ug/L	0.00	
Spiked Amount 50.000	Range 66 - 138		Recovery = 102.70%				
69) SURR2,BFB	11.988	95	226992	50.36	ug/L	0.00	
Spiked Amount 50.000	Range 51 - 136		Recovery = 100.72%				
Target Compounds						Qvalue	
53) Trichloroethene	6.361	130	25007	6.72	ug/L	95	
102) 1,2-Dclbenz	13.628	146	2829434	348.48	ug/L	99	E-Over Calibration

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

Quantitation Report (QT Reviewed)

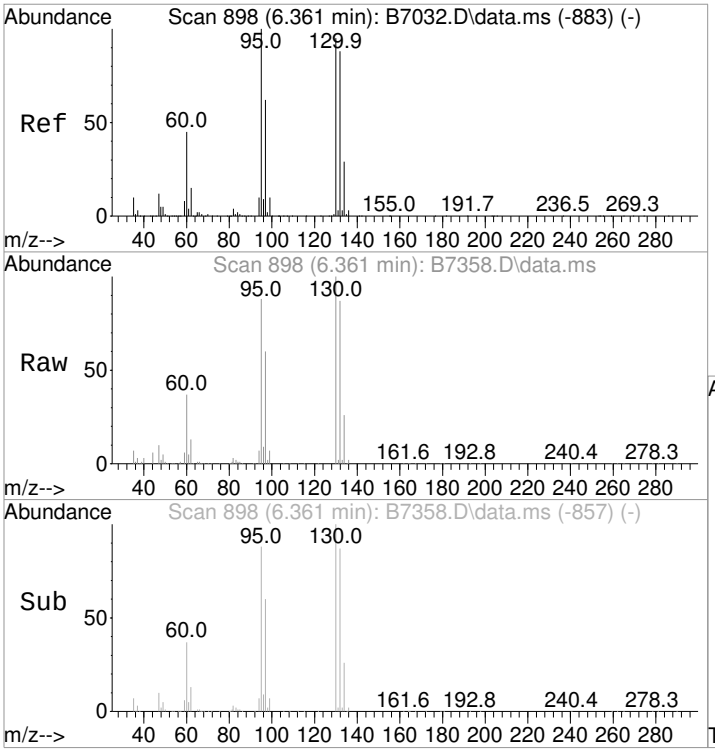
Data Path : I:\ACQUDATA\MSVOA14\Data\080416\
Data File : B7358.D
Acq On : 4 Aug 2016 7:54 pm
Operator : F.Naegler
Sample : R1607963-017|1.00 Inst : MSVOA14
Misc : ALS 15946 T4
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Aug 05 10:11:10 2016
Quant Method : I:\ACQUDATA\MSVOA14\Methods\S080316.M
Quant Title : MS#14 - 8260 SOILS 10ml PURGE
QLast Update : Wed Aug 03 16:40:37 2016
Response via : Initial Calibration



1st FN 08/05/16
2nd 08/05/16

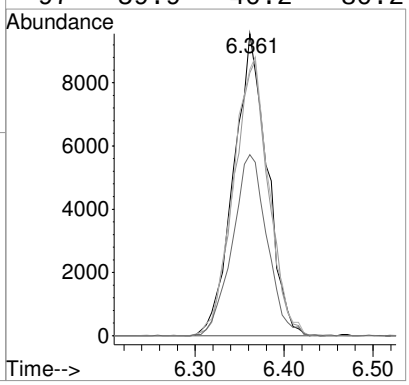
1st FN 08/05/16
2nd WR 08/05/16

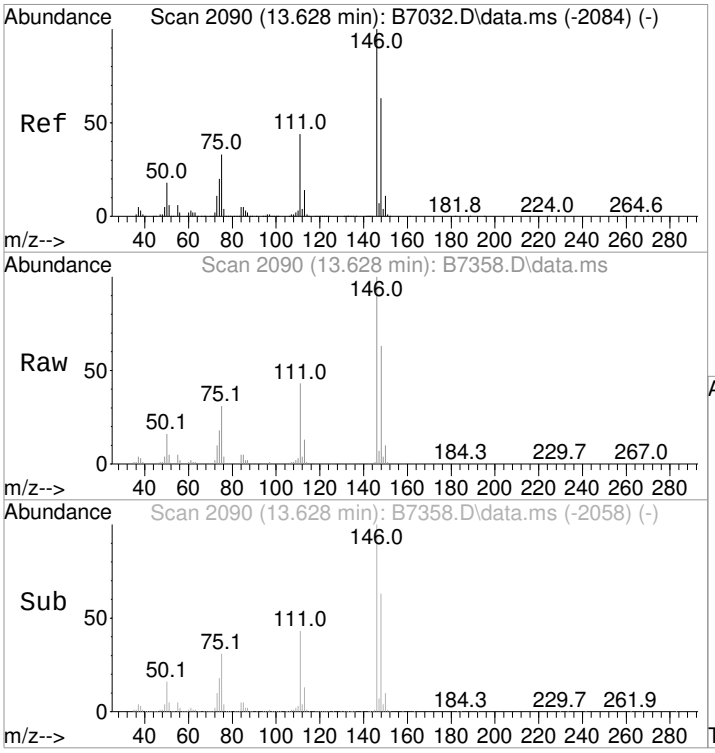


#53
Trichloroethene
Concen: 6.72 ug/L
RT: 6.361 min Scan# 898
Delta R.T. 0.000 min
Lab File: B7358.D
Acq: 4 Aug 2016 7:54 pm

Tgt Ion:130 Resp: 25007

Ion	Ratio	Lower	Upper
130	100		
132	87.1	73.7	113.7
95	88.1	74.7	114.7
97	59.9	40.2	80.2

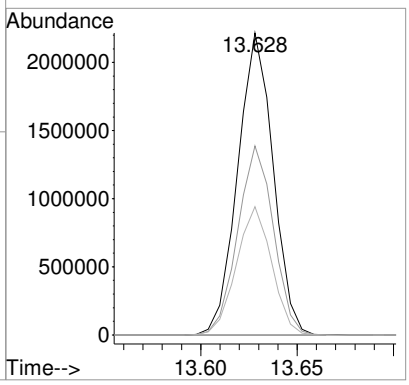




#102
1,2-Dclbenz
Concen: 348.48 ug/L
RT: 13.628 min Scan# 2090
Delta R.T. 0.000 min
Lab File: B7358.D
Acq: 4 Aug 2016 7:54 pm

Tgt Ion:146 Resp: 2829434

Ion	Ratio	Lower	Upper
146	100		
148	62.6	41.9	81.9
111	42.5	21.6	61.6

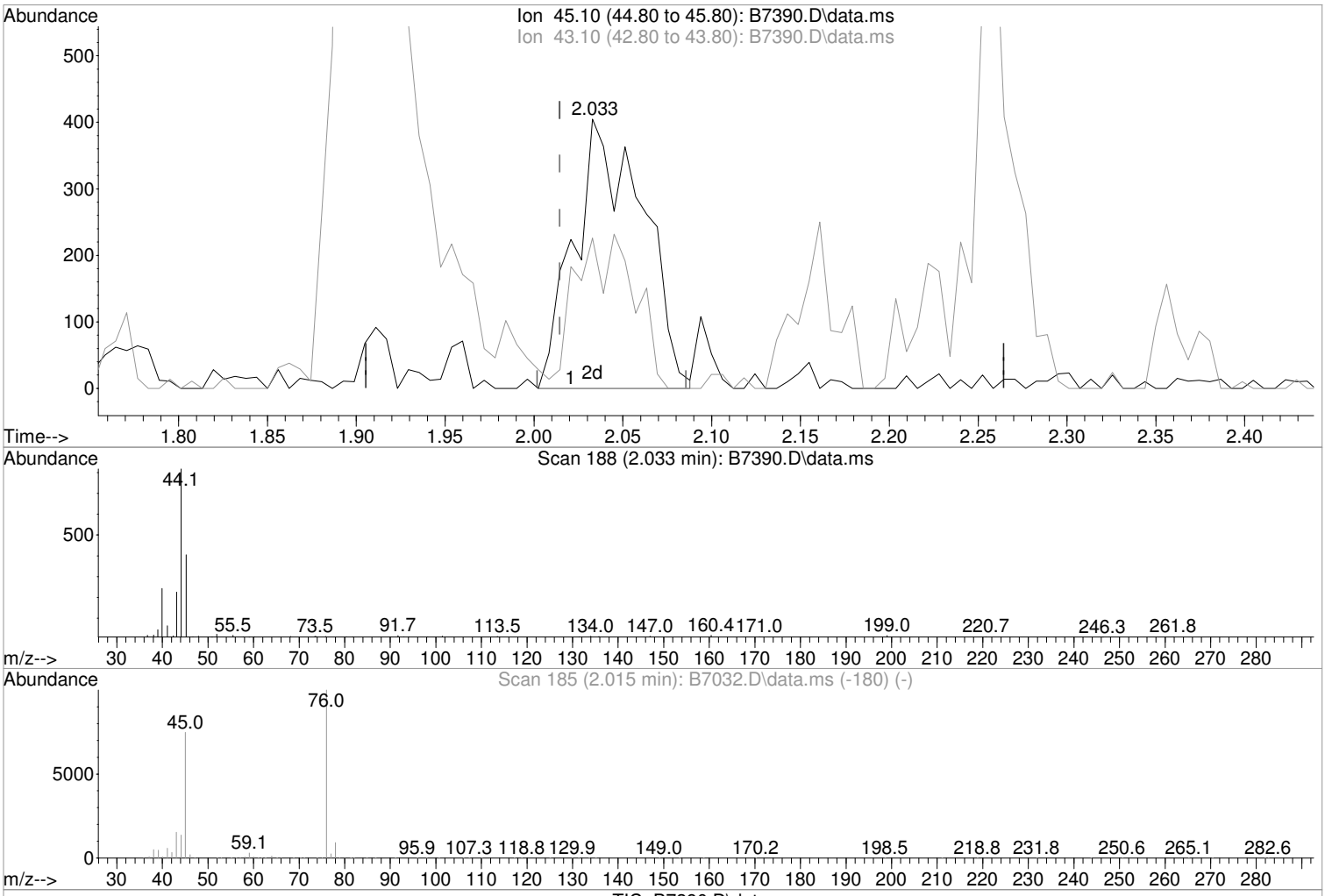


1st FN 08/09/16
2nd KR 08/09/16

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\080616\
Data File : B7390.D
Acq On : 7 Aug 2016 12:35 am
Operator : F.Naegler
Sample : R1607963-017|5.05 Inst : MSVOA14
Misc : ALS 15946 T4
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Aug 08 08:45:32 2016
Quant Method : I:\ACQUDATA\MSVOA14\Methods\S080316.M
Quant Title : MS#14 - 8260 SOILS 10ml PURGE
QLast Update : Wed Aug 03 16:40:37 2016
Response via : Initial Calibration



TIC: B7390.D\data.ms

(16) 2-Propanol

2.033min (+0.018) 4.04 ug/L m

response 1084

Ion	Exp%	Act%
45.10	100	100
43.10	21.50	55.80#
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

Poor integration.

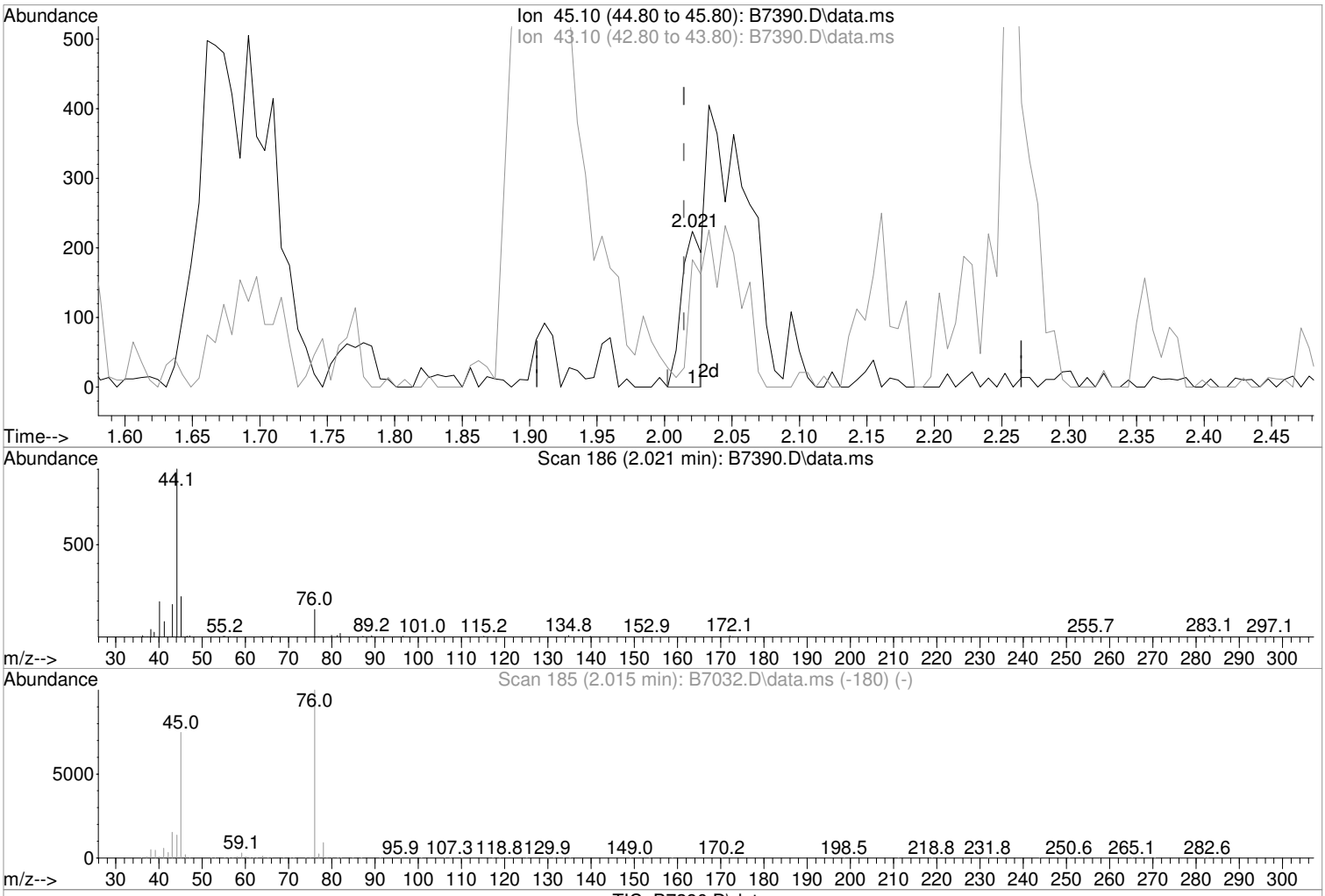
08/09/16

1st FN 08/09/16
2nd KR 08/09/16

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\080616\
Data File : B7390.D
Acq On : 7 Aug 2016 12:35 am
Operator : F.Naegler
Sample : R1607963-017|5.05 Inst : MSVOA14
Misc : ALS 15946 T4
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Aug 08 08:45:32 2016
Quant Method : I:\ACQUDATA\MSVOA14\Methods\S080316.M
Quant Title : MS#14 - 8260 SOILS 10ml PURGE
QLast Update : Wed Aug 03 16:40:37 2016
Response via : Initial Calibration



TIC: B7390.D\data.ms

(16) 2-Propanol

2.021min (+0.006) 0.88 ug/L

response 237

Ion	Exp%	Act%
45.10	100	100
43.10	21.50	81.70#
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

Before

08/09/16

1st FN 08/09/16
2nd WR 08/09/16

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA14\Data\080616\
Data File : B7390.D
Acq On : 7 Aug 2016 12:35 am
Operator : F.Naegler
Sample : R1607963-017|5.05 Inst : MSVOA14
Misc : ALS 15946 T4
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Aug 09 14:25:04 2016
Quant Method : I:\ACQUDATA\MSVOA14\Methods\S080316.M dil
Quant Title : MS#14 - 8260 SOILS 10ml PURGE
QLast Update : Wed Aug 03 16:40:37 2016 surr low
Response via : Initial Calibration

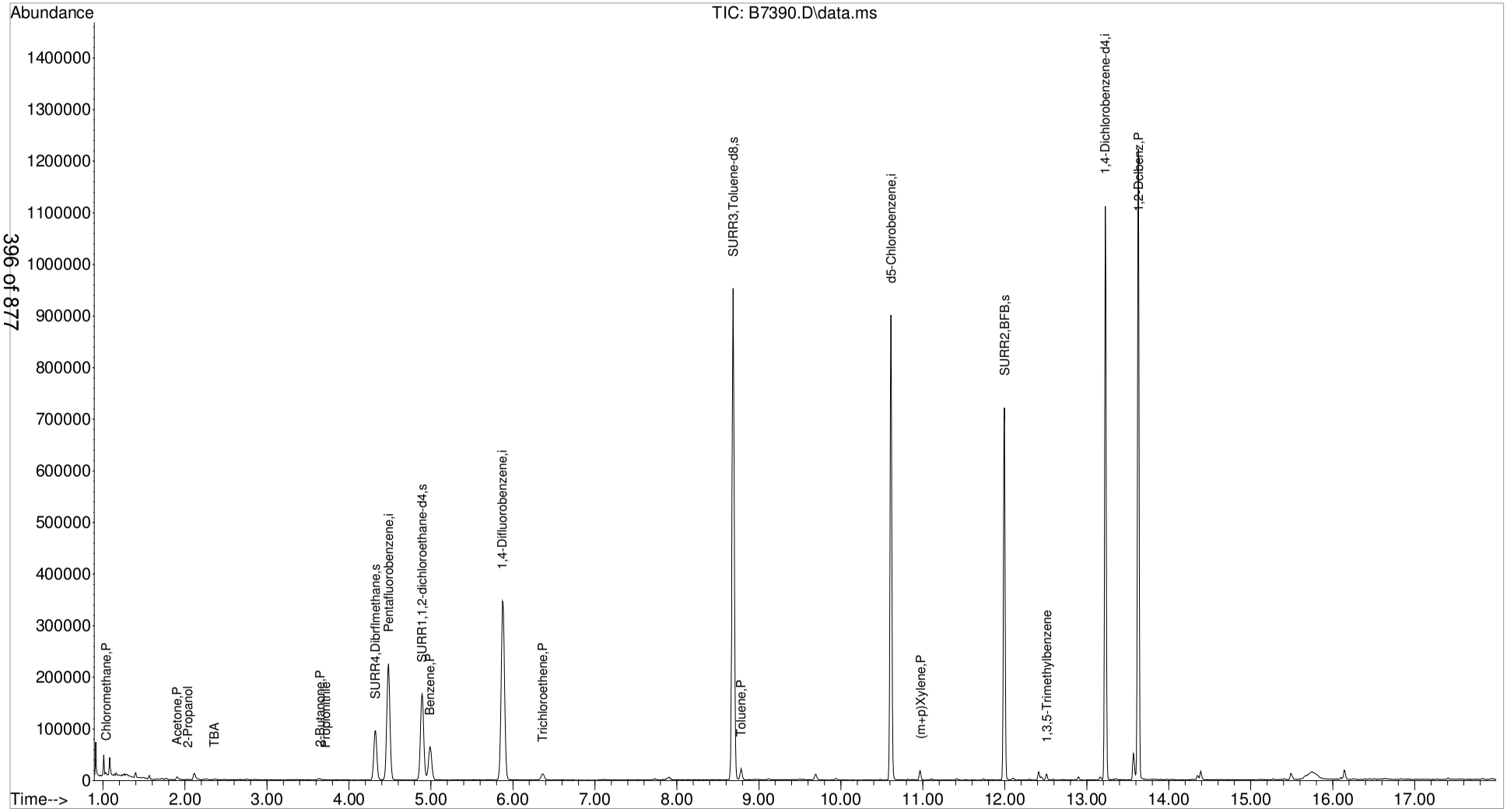
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.484	168	224578	50.00	ug/L	0.00
42) 1,4-Difluorobenzene	5.874	114	442223	50.00	ug/L	0.00
70) d5-Chlorobenzene	10.611	117	464718	50.00	ug/L	0.00
87) 1,4-Dichlorobenzene-d4	13.226	152	242549	50.00	ug/L	0.00
System Monitoring Compounds						
44) SURR4,Dibrflmethane	4.319	113	76987	29.15	ug/L	0.00
Spiked Amount 50.000	Range 63 - 138		Recovery = 58.30%#			*
47) SURR1,1,2-dichloroetha...	4.892	65	160358	53.84	ug/L	0.00
Spiked Amount 50.000	Range 67 - 128		Recovery = 107.68%			
64) SURR3,Toluene-d8	8.684	98	687375	63.56	ug/L	0.00
Spiked Amount 50.000	Range 66 - 138		Recovery = 127.12%			
69) SURR2,BFB	11.994	95	223151	56.15	ug/L	0.00
Spiked Amount 50.000	Range 51 - 136		Recovery = 112.30%			
Target Compounds						Qvalue
3) Chloromethane	1.033	50	1160	0.28	ug/L	94
5) Bromomethane	1.289	94	438	Below Cal	#	21
15) Acetone	1.905	43	5911	2.68	ug/L	91
16) 2-Propanol	2.033	45	1084m	4.04	ug/L	
23) TBA	2.362	59	982	2.35	ug/L	85
34) 2-Butanone	3.648	43	669	0.37	ug/L	90
35) Propionitrile	3.716	54	384	0.72	ug/L	98
48) Benzene	4.990	78	87542	6.21	ug/L	95
53) Trichloroethene	6.361	130	6527	1.99	ug/L	92
65) Toluene	8.782	91	15604	1.09	ug/L	96
80) (m+p)Xylene	10.970	106	4954	0.71	ug/L	100
94) 1,3,5-Trimethylbenzene	12.513	105	5817	0.37	ug/L	97
102) 1,2-Dclbenz	13.628	146	438035	49.07	ug/L	97

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

Quantitation Report (QT Reviewed)

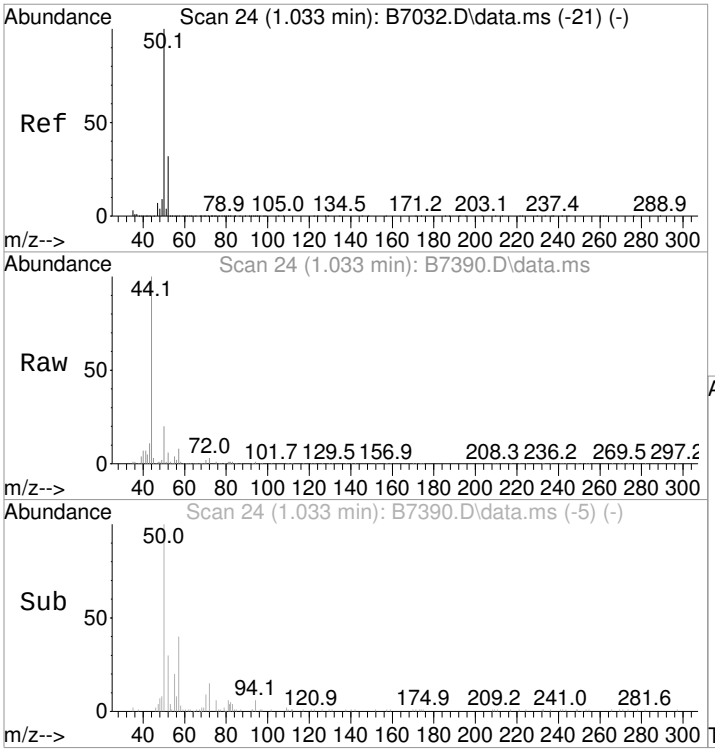
Data Path : I:\ACQUDATA\MSVOA14\Data\080616\
Data File : B7390.D
Acq On : 7 Aug 2016 12:35 am
Operator : F.Naegler
Sample : R1607963-017|5.05 Inst : MSVOA14
Misc : ALS 15946 T4
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Aug 09 14:25:04 2016
Quant Method : I:\ACQUDATA\MSVOA14\Methods\S080316.M
Quant Title : MS#14 - 8260 SOILS 10ml PURGE
QLast Update : Wed Aug 03 16:40:37 2016
Response via : Initial Calibration



1st FN 08/09/16
2nd 08/09/16

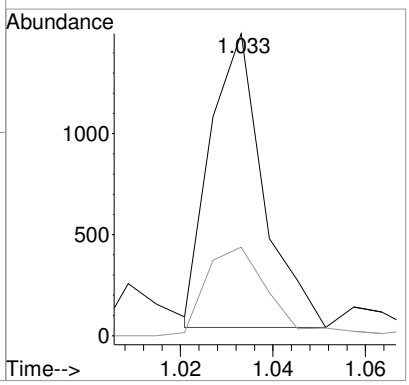
1st FN 08/09/16
2nd KR 08/09/16

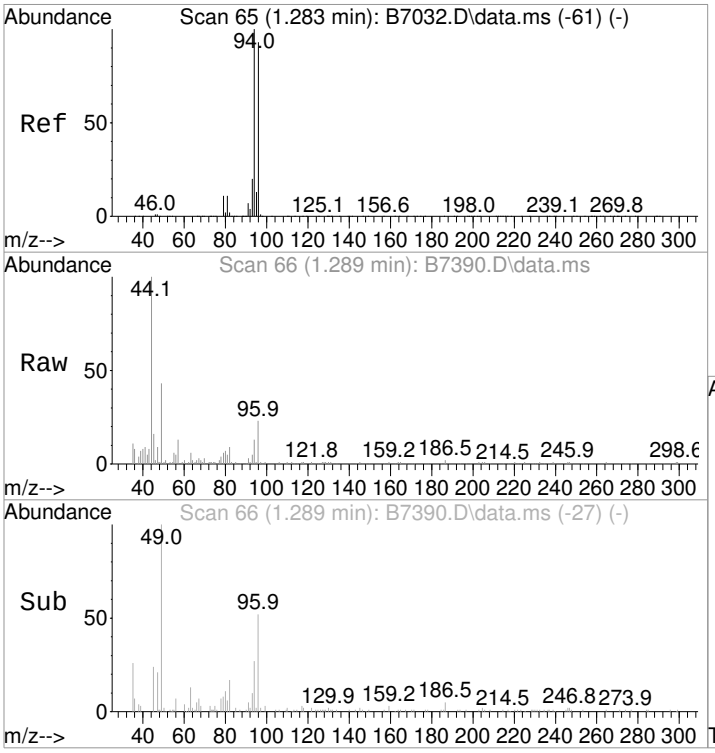


#3
Chloromethane
Concen: 0.28 ug/L
RT: 1.033 min Scan# 24
Delta R.T. 0.000 min
Lab File: B7390.D
Acq: 7 Aug 2016 12:35 am

Tgt Ion: 50 Resp: 1160

Ion	Ratio	Lower	Upper
50	100		
52	29.3	12.9	52.9

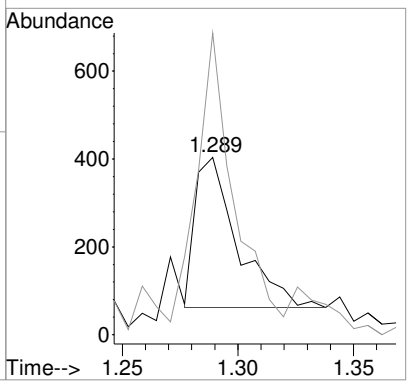




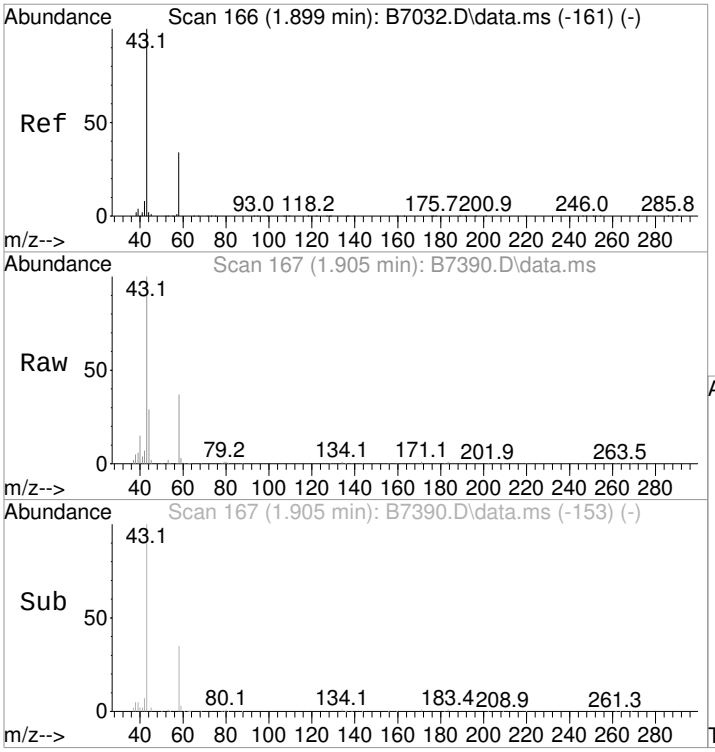
#5
Bromomethane
Concen: Below Cal
RT: 1.289 min Scan# 66
Delta R.T. 0.013 min
Lab File: B7390.D
Acq: 7 Aug 2016 12:35 am

Tgt Ion: 94 Resp: 438

Ion	Ratio	Lower	Upper
94	100		
96	170.0	73.8	113.8#



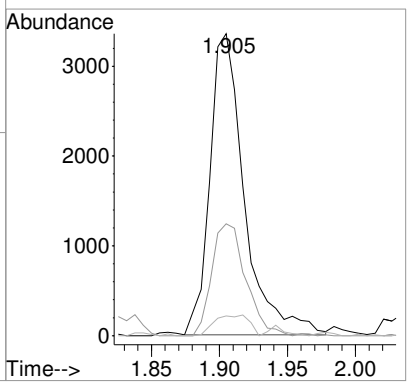
1st FN 08/09/16
2nd WR 08/09/16

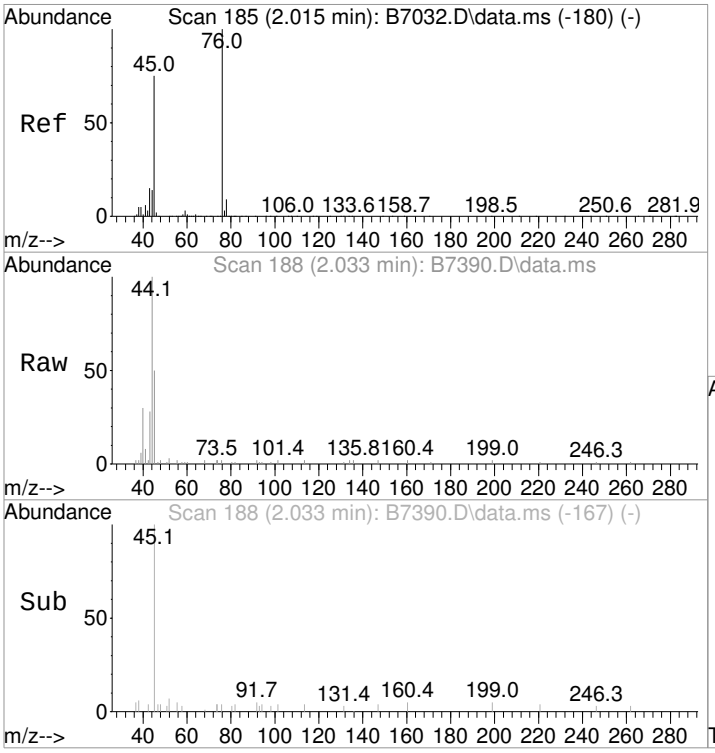


#15
Acetone
Concen: 2.68 ug/L
RT: 1.905 min Scan# 167
Delta R.T. 0.013 min
Lab File: B7390.D
Acq: 7 Aug 2016 12:35 am

Tgt Ion: 43 Resp: 5911

Ion	Ratio	Lower	Upper
43	100		
58	37.1	11.7	51.7
42	6.5	0.0	29.2

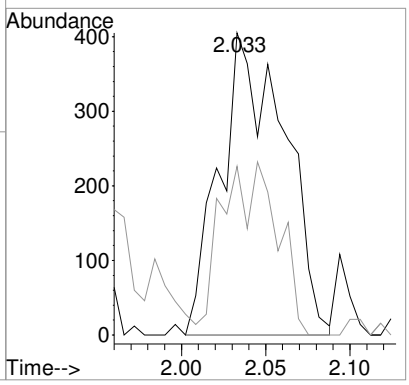




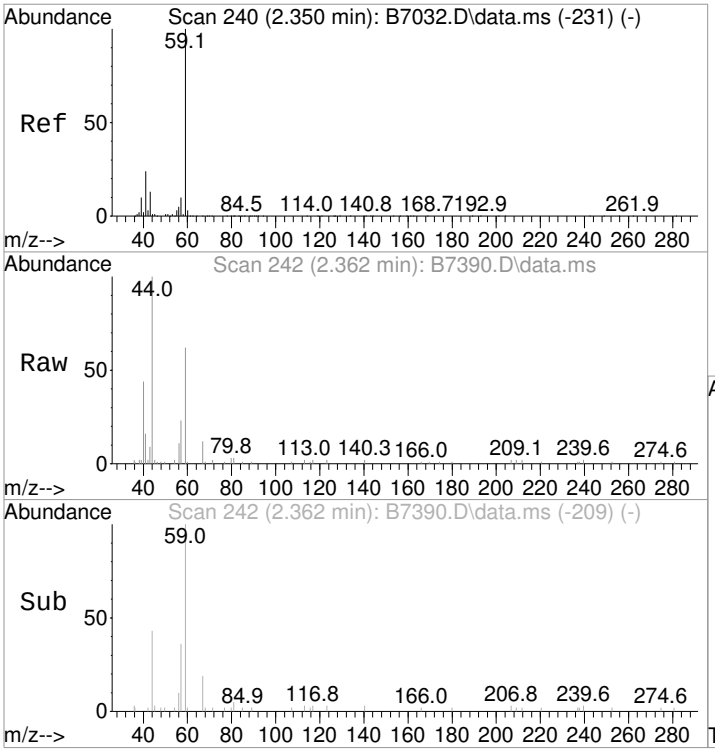
#16
2-Propanol
Concen: 4.04 ug/L m
RT: 2.033 min Scan# 188
Delta R.T. 0.018 min
Lab File: B7390.D
Acq: 7 Aug 2016 12:35 am

Tgt Ion: 45 Resp: 1084

Ion	Ratio	Lower	Upper
45	100		
43	55.8	1.5	41.5#



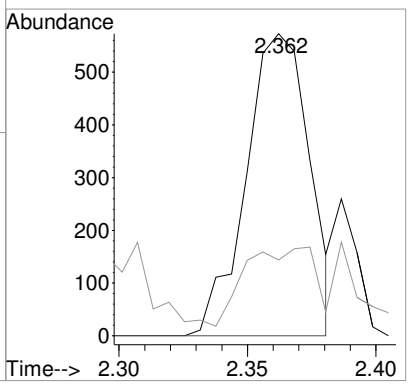
1st FN 08/09/16
2nd KR 08/09/16

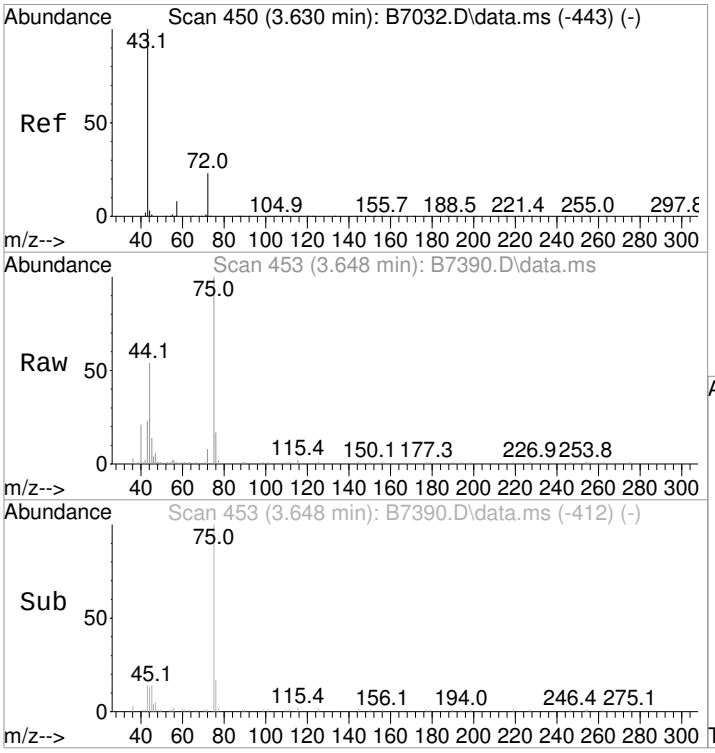


#23
TBA
Concen: 2.35 ug/L
RT: 2.362 min Scan# 242
Delta R.T. 0.012 min
Lab File: B7390.D
Acq: 7 Aug 2016 12:35 am

Tgt Ion: 59 Resp: 982

Ion	Ratio	Lower	Upper
59	100		
41	25.1	0.0	38.4

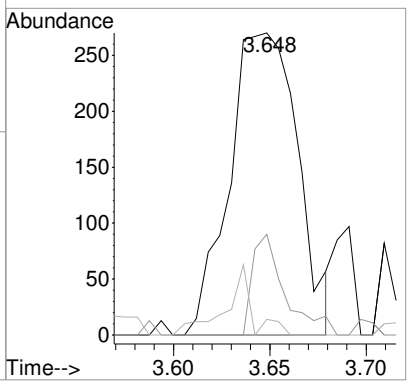




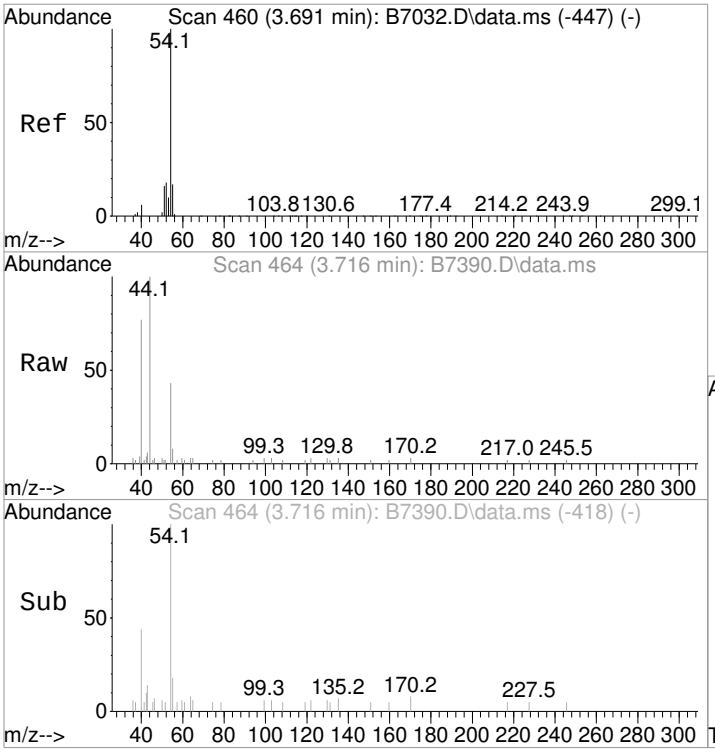
#34
2-Butanone
Concen: 0.37 ug/L
RT: 3.648 min Scan# 453
Delta R.T. 0.024 min
Lab File: B7390.D
Acq: 7 Aug 2016 12:35 am

Tgt Ion: 43 Resp: 669

Ion	Ratio	Lower	Upper
43	100		
72	33.3	7.4	47.4
57	5.2	0.0	27.5



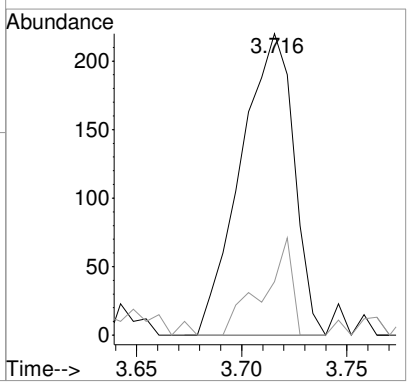
1st FN 08/09/16
2nd KR 08/09/16

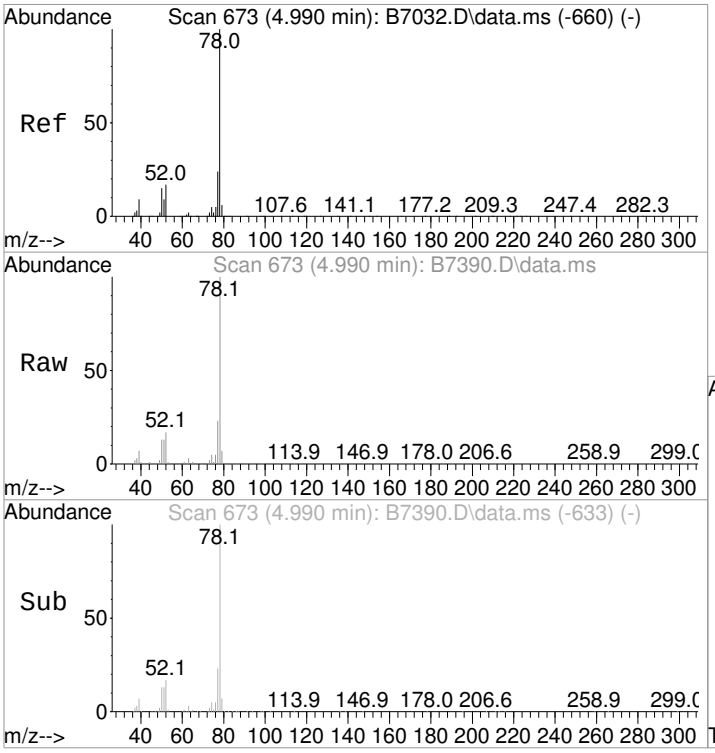


#35
Propionitrile
Concen: 0.72 ug/L
RT: 3.716 min Scan# 464
Delta R.T. 0.031 min
Lab File: B7390.D
Acq: 7 Aug 2016 12:35 am

Tgt Ion: 54 Resp: 384

Ion	Ratio	Lower	Upper
54	100		
55	17.7	0.0	38.5

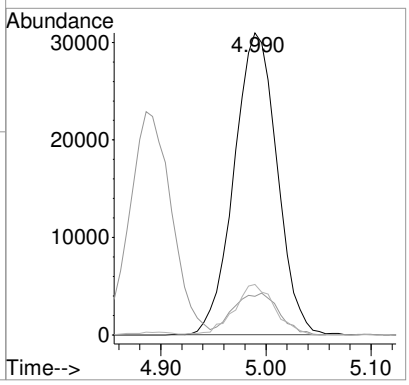




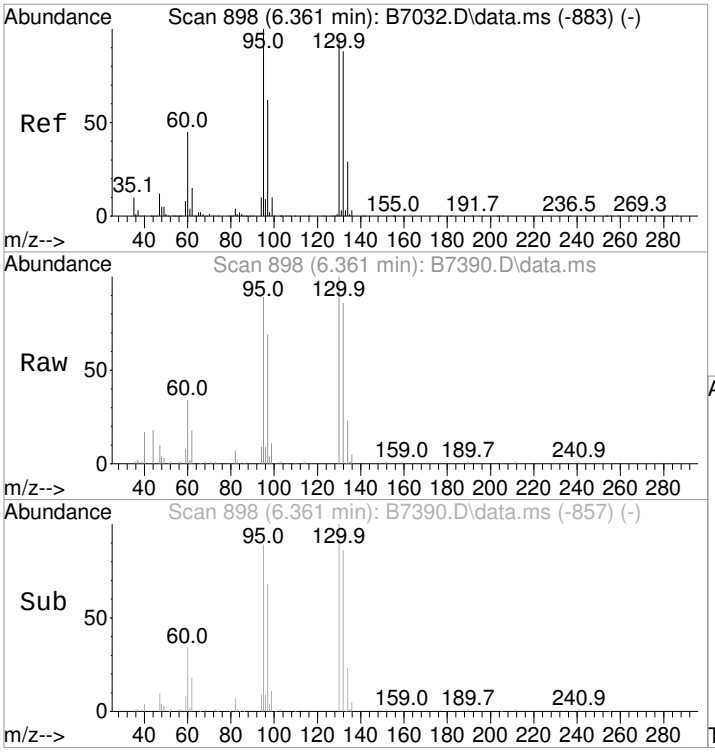
#48
Benzene
Concen: 6.21 ug/L
RT: 4.990 min Scan# 673
Delta R.T. 0.000 min
Lab File: B7390.D
Acq: 7 Aug 2016 12:35 am

Tgt Ion: 78 Resp: 87542

Ion	Ratio	Lower	Upper
78	100		
51	12.8	0.0	36.0
52	16.7	0.0	35.4



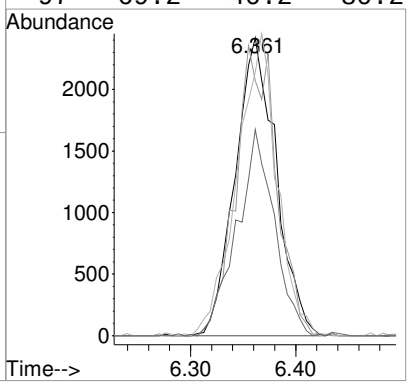
1st FN 08/09/16
2nd KR 08/09/16

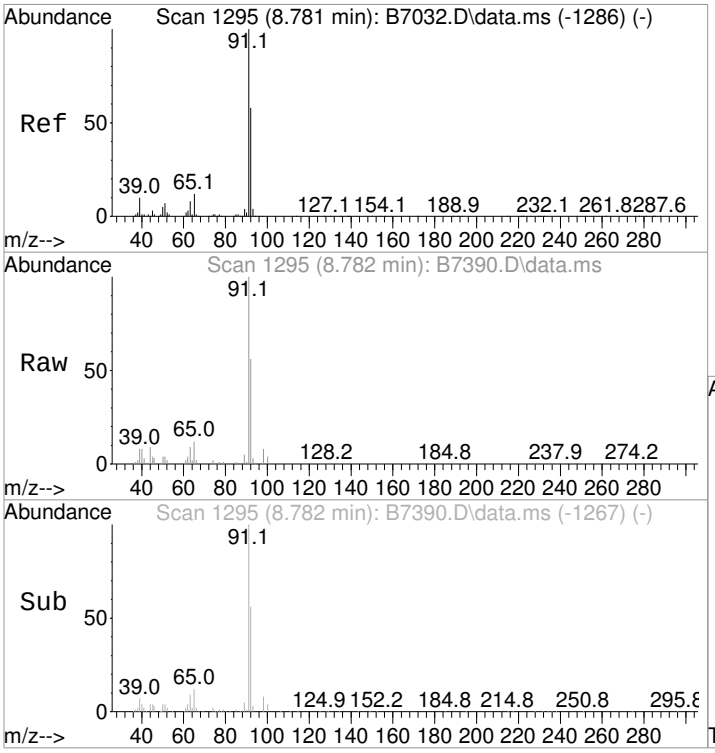


#53
Trichloroethene
Concen: 1.99 ug/L
RT: 6.361 min Scan# 898
Delta R.T. 0.000 min
Lab File: B7390.D
Acq: 7 Aug 2016 12:35 am

Tgt Ion:130 Resp: 6527

Ion	Ratio	Lower	Upper
130	100		
132	85.6	73.7	113.7
95	88.5	74.7	114.7
97	69.2	40.2	80.2

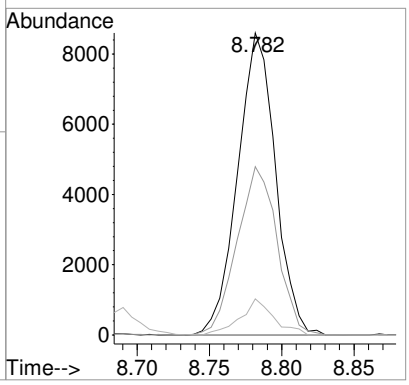




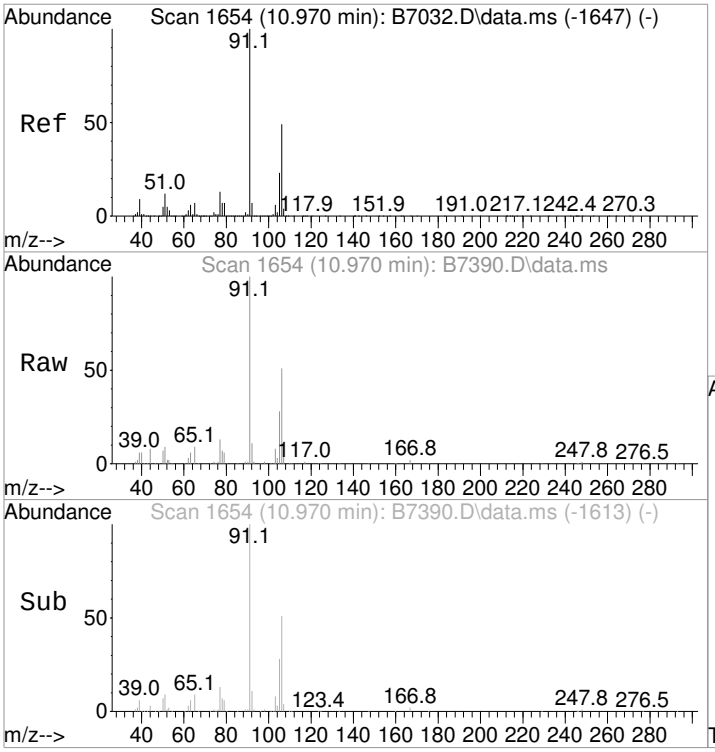
#65
Toluene
Concen: 1.09 ug/L
RT: 8.782 min Scan# 1295
Delta R.T. 0.000 min
Lab File: B7390.D
Acq: 7 Aug 2016 12:35 am

Tgt Ion: 91 Resp: 15604

Ion	Ratio	Lower	Upper
91	100		
92	55.7	38.8	78.8
65	11.9	0.0	31.4



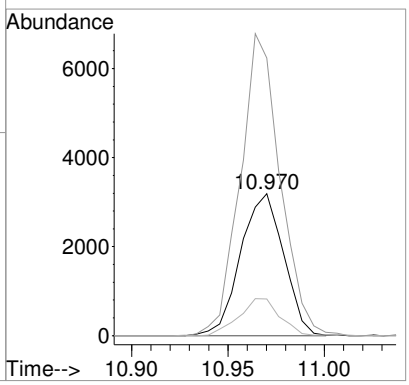
1st FN 08/09/16
2nd KR 08/09/16

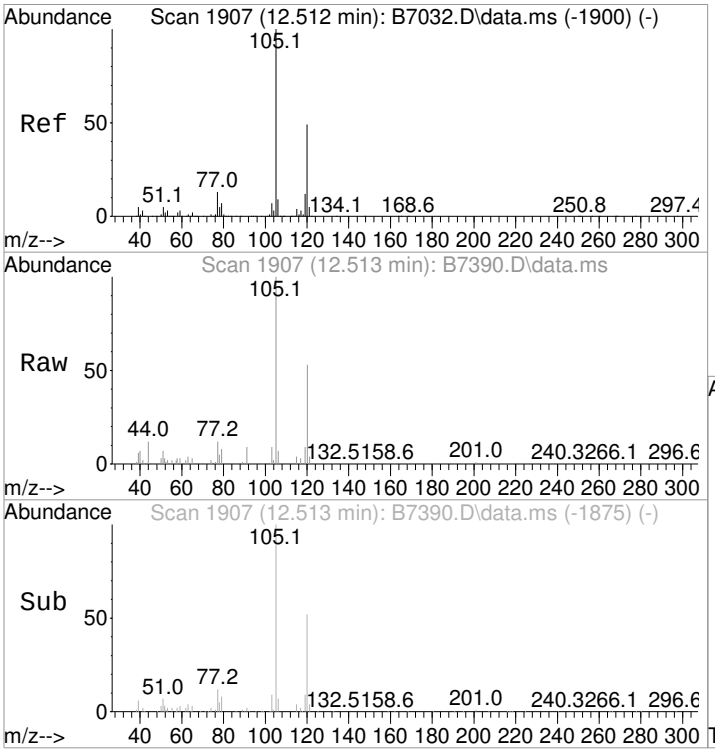


#80
(m+p)Xylene
Concen: 0.71 ug/L
RT: 10.970 min Scan# 1654
Delta R.T. 0.000 min
Lab File: B7390.D
Acq: 7 Aug 2016 12:35 am

Tgt Ion:106 Resp: 4954

Ion	Ratio	Lower	Upper
106	100		
91	195.8	176.2	216.2
77	26.0	5.6	45.6

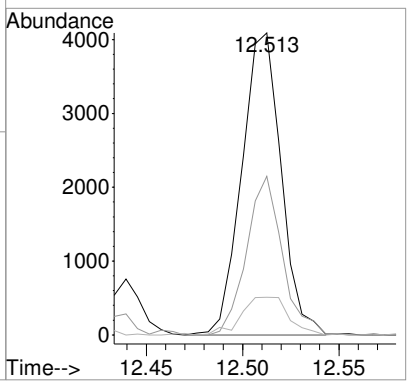




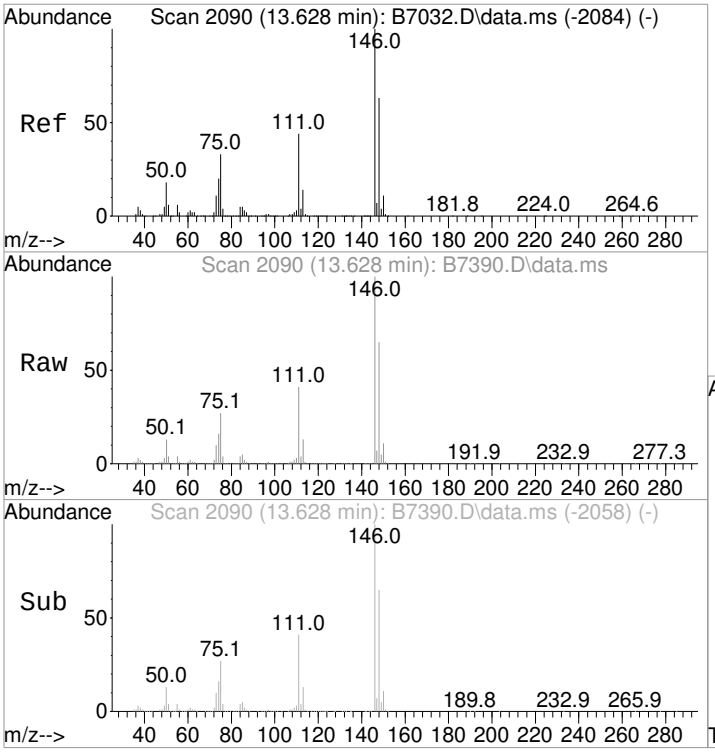
#94
1,3,5-Trimethylbenzene
Concen: 0.37 ug/L
RT: 12.513 min Scan# 1907
Delta R.T. 0.000 min
Lab File: B7390.D
Acq: 7 Aug 2016 12:35 am

Tgt Ion:105 Resp: 5817

Ion	Ratio	Lower	Upper
105	100		
120	52.5	30.4	70.4
77	12.4	0.0	32.6



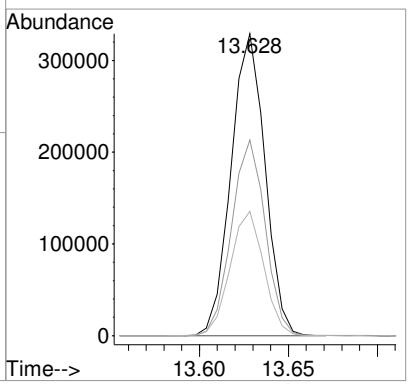
1st FN 08/09/16
2nd KR 08/09/16



#102
1,2-Dclbenz
Concen: 49.07 ug/L
RT: 13.628 min Scan# 2090
Delta R.T. 0.000 min
Lab File: B7390.D
Acq: 7 Aug 2016 12:35 am

Tgt Ion:146 Resp: 438035

Ion	Ratio	Lower	Upper
146	100		
148	64.8	41.9	81.9
111	41.2	21.6	61.6



1st FN 08/05/16
2nd WR 08/05/16

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA14\Data\080416\
Data File : B7338.D
Acq On : 4 Aug 2016 11:04 am
Operator : F.Naegler
Sample : MBLK Inst : MSVOA14
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 04 12:00:15 2016
Quant Method : I:\ACQUDATA\MSVOA14\Methods\S080316.M
Quant Title : MS#14 - 8260 SOILS 10ml PURGE
QLast Update : Wed Aug 03 16:40:37 2016
Response via : Initial Calibration

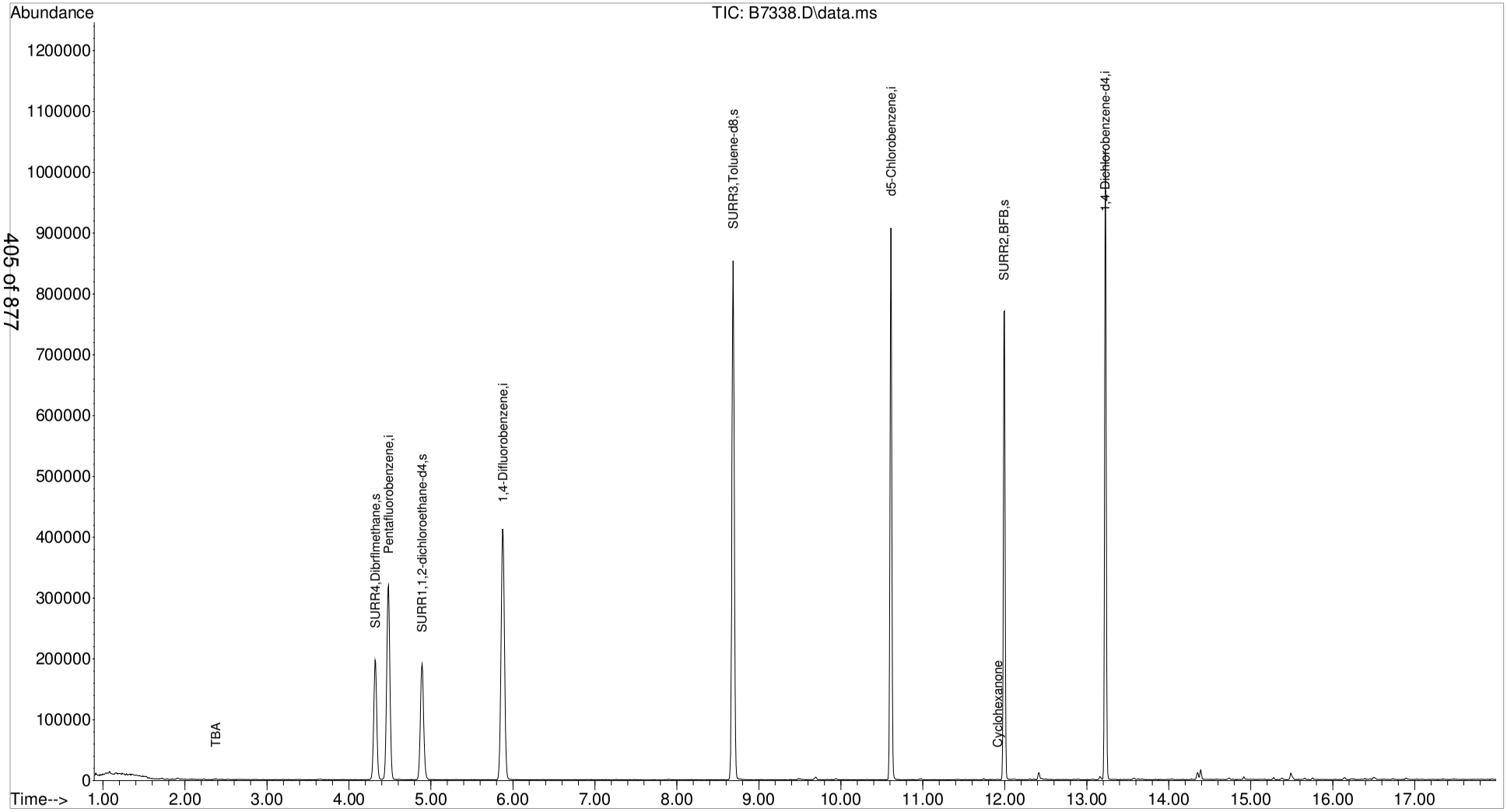
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.484	168	309311	50.00	ug/L	0.00
42) 1,4-Difluorobenzene	5.880	114	525208	50.00	ug/L	0.00
70) d5-Chlorobenzene	10.611	117	458492	50.00	ug/L	0.00
87) 1,4-Dichlorobenzene-d4	13.226	152	223179	50.00	ug/L	0.00
System Monitoring Compounds						
44) SURR4,Dibrflmethane	4.319	113	153857	49.05	ug/L	0.00
Spiked Amount 50.000	Range 63 - 138		Recovery = 98.10%			
47) SURR1,1,2-dichloroetha...	4.892	65	180110	50.92	ug/L	0.00
Spiked Amount 50.000	Range 67 - 128		Recovery = 101.84%			
64) SURR3,Toluene-d8	8.684	98	655249	51.01	ug/L	0.00
Spiked Amount 50.000	Range 66 - 138		Recovery = 102.02%			
69) SURR2,BFB	11.988	95	250309	53.03	ug/L	0.00
Spiked Amount 50.000	Range 51 - 136		Recovery = 106.06%			
Target Compounds						Qvalue
5) Bromomethane	1.289	94	659	Below Cal		93
15) Acetone	1.911	43	2812	Below Cal		91
23) TBA	2.381	59	1603	2.79	ug/L #	21
85) Cyclohexanone	11.909	55	425	0.50	ug/L #	53

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

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA14\Data\080416\
Data File : B7338.D
Acq On : 4 Aug 2016 11:04 am
Operator : F.Naegler
Sample : MBLK Inst : MSVOA14
Misc :
ALS Vial : 4 Sample Multiplier: 1

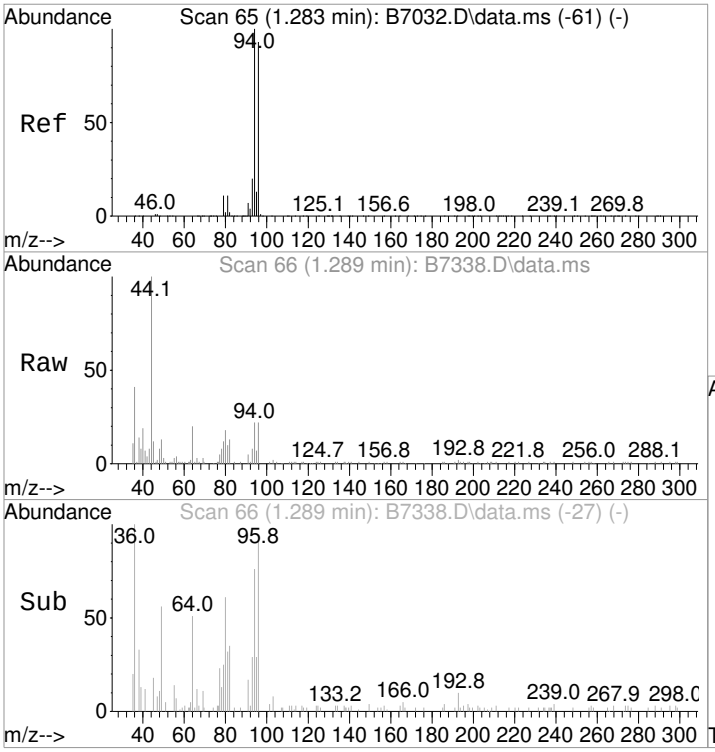
Quant Time: Aug 04 12:00:15 2016
Quant Method : I:\ACQUDATA\MSVOA14\Methods\S080316.M
Quant Title : MS#14 - 8260 SOILS 10ml PURGE
QLast Update : Wed Aug 03 16:40:37 2016
Response via : Initial Calibration



405 of 877

1st FN 08/05/16
2nd 08/05/16

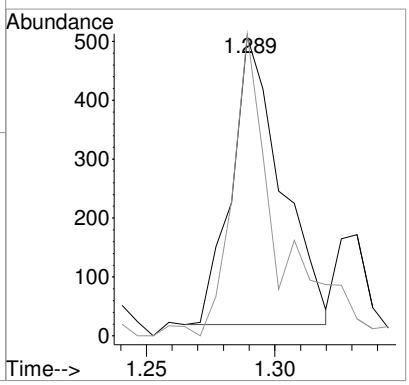
1st FN 08/05/16
2nd KR 08/05/16

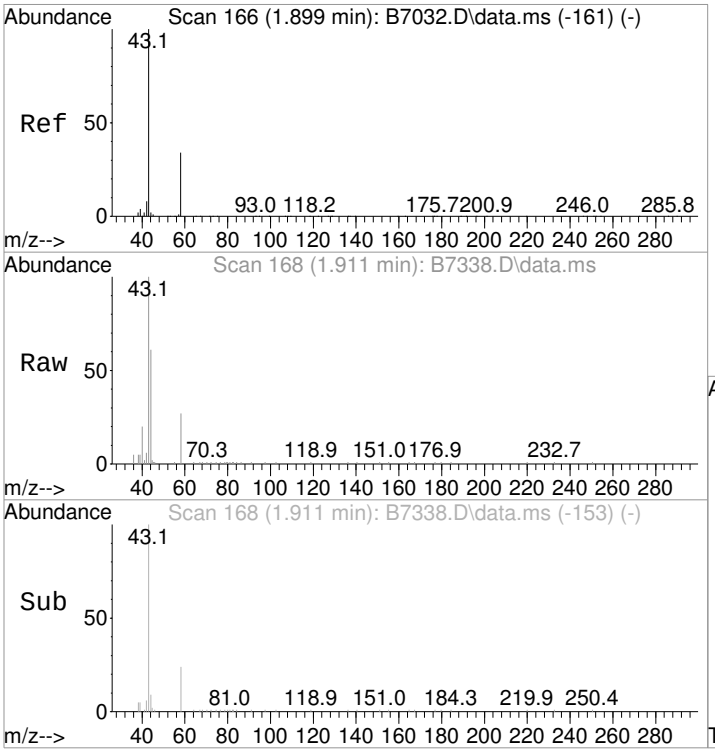


#5
Bromomethane
Concen: Below Cal
RT: 1.289 min Scan# 66
Delta R.T. 0.013 min
Lab File: B7338.D
Acq: 4 Aug 2016 11:04 am

Tgt Ion: 94 Resp: 659

Ion	Ratio	Lower	Upper
94	100		
96	101.0	73.8	113.8

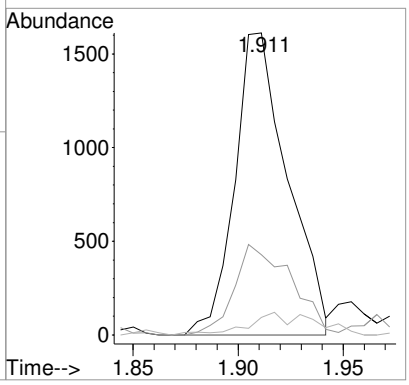




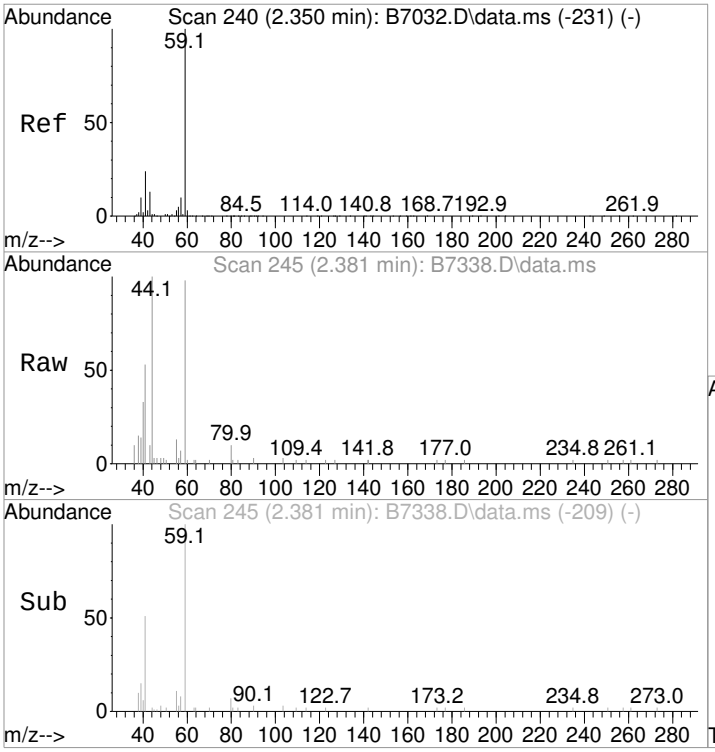
#15
Acetone
Concen: Below Cal
RT: 1.911 min Scan# 168
Delta R.T. 0.019 min
Lab File: B7338.D
Acq: 4 Aug 2016 11:04 am

Tgt Ion: 43 Resp: 2812

Ion	Ratio	Lower	Upper
43	100		
58	26.6	11.7	51.7
42	5.8	0.0	29.2



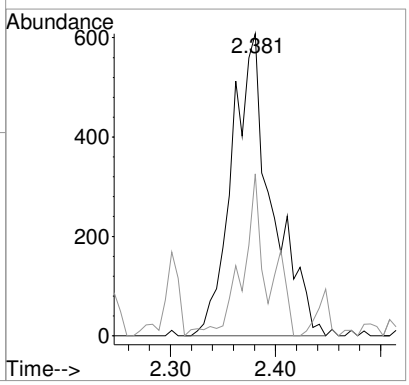
1st FN 08/05/16
2nd KR 08/05/16

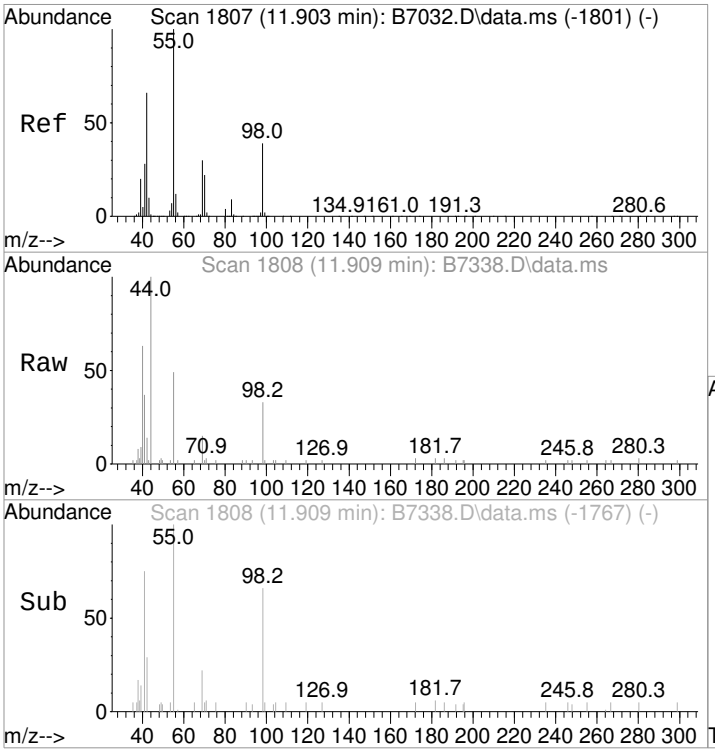


#23
TBA
Concen: 2.79 ug/L
RT: 2.381 min Scan# 245
Delta R.T. 0.031 min
Lab File: B7338.D
Acq: 4 Aug 2016 11:04 am

Tgt Ion: 59 Resp: 1603

Ion	Ratio	Lower	Upper
59	100		
41	53.6	0.0	38.4#

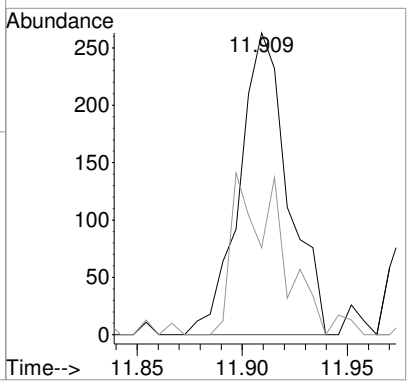




#85
Cyclohexanone
Concen: 0.50 ug/L
RT: 11.909 min Scan# 1808
Delta R.T. 0.000 min
Lab File: B7338.D
Acq: 4 Aug 2016 11:04 am

Tgt Ion: 55 Resp: 425

Ion	Ratio	Lower	Upper
55	100		
42	28.9	46.9	86.9#



1st FN 08/09/16
2nd WR 08/09/16

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA14\Data\080616\
Data File : B7370.D
Acq On : 6 Aug 2016 4:30 pm
Operator : F.Naegler
Sample : MBLK Inst : MSVOA14
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 09 13:28:06 2016
Quant Method : I:\ACQUDATA\MSVOA14\Methods\S080316.M
Quant Title : MS#14 - 8260 SOILS 10ml PURGE
QLast Update : Wed Aug 03 16:40:37 2016
Response via : Initial Calibration

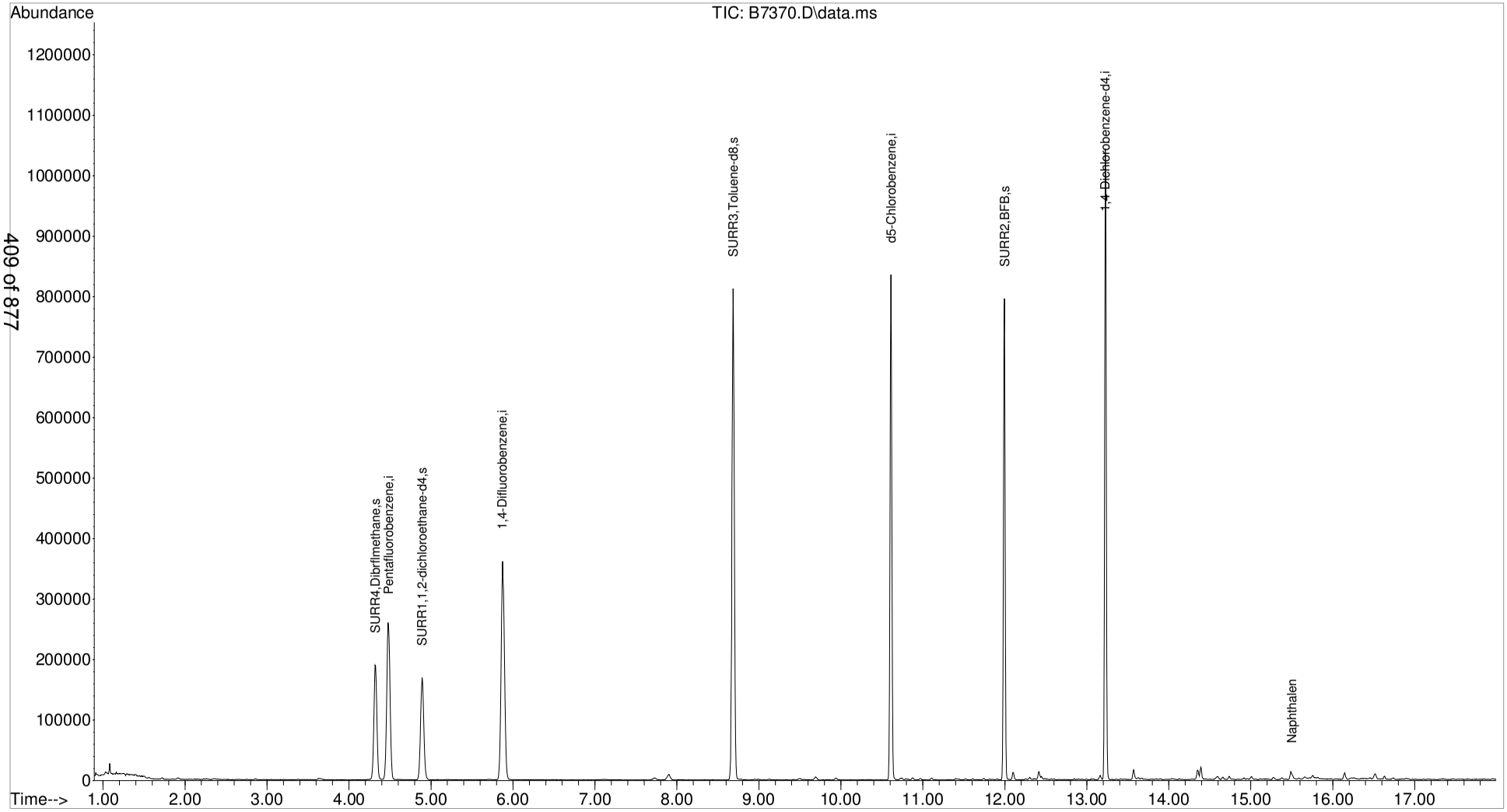
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.484	168	261558	50.00	ug/L	0.00
42) 1,4-Difluorobenzene	5.874	114	453382	50.00	ug/L	0.00
70) d5-Chlorobenzene	10.610	117	432629	50.00	ug/L	0.00
87) 1,4-Dichlorobenzene-d4	13.226	152	233334	50.00	ug/L	0.00
System Monitoring Compounds						
44) SURR4,Dibrflmethane	4.319	113	149767	55.31	ug/L	0.00
Spiked Amount 50.000	Range 63 - 138		Recovery = 110.62%			
47) SURR1,1,2-dichloroetha...	4.892	65	157644	51.63	ug/L	0.00
Spiked Amount 50.000	Range 67 - 128		Recovery = 103.26%			
64) SURR3,Toluene-d8	8.684	98	616130	55.57	ug/L	0.00
Spiked Amount 50.000	Range 66 - 138		Recovery = 111.14%			
69) SURR2,BFB	11.994	95	245220	60.18	ug/L	0.00
Spiked Amount 50.000	Range 51 - 136		Recovery = 120.36%			
Target Compounds						Qvalue
106) Naphthalen	15.506	128	3347	0.20	ug/L	96

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

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA14\Data\080616\
Data File : B7370.D
Acq On : 6 Aug 2016 4:30 pm
Operator : F.Naegler
Sample : MBLK Inst : MSVOA14
Misc :
ALS Vial : 4 Sample Multiplier: 1

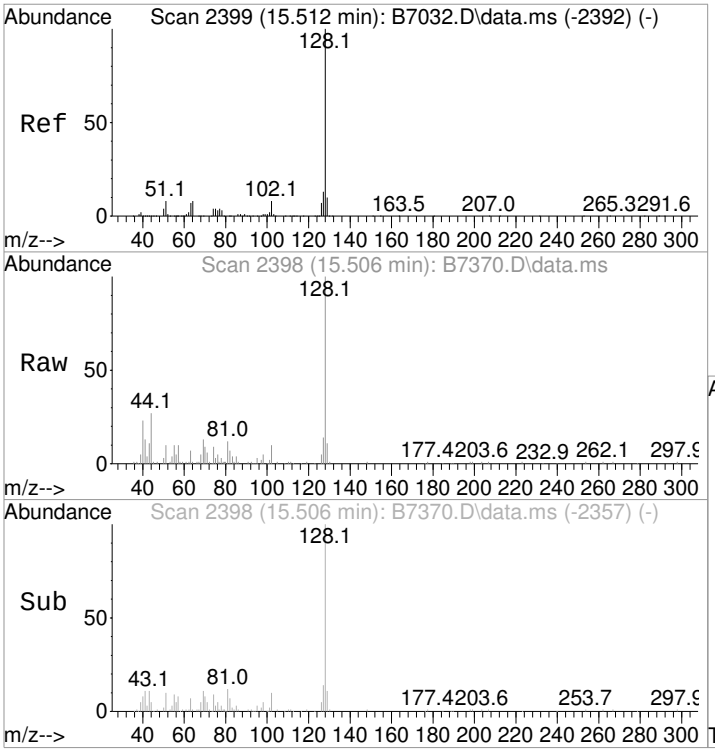
Quant Time: Aug 09 13:28:06 2016
Quant Method : I:\ACQUDATA\MSVOA14\Methods\S080316.M
Quant Title : MS#14 - 8260 SOILS 10ml PURGE
QLast Update : Wed Aug 03 16:40:37 2016
Response via : Initial Calibration



409 of 877

1st FN 08/09/16
2nd 08/09/16

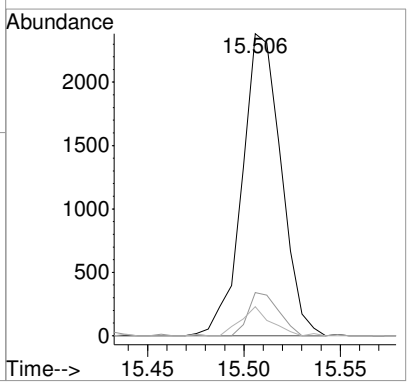
1st FN 08/09/16
2nd KR 08/09/16



#106
Naphthalen
Concen: 0.20 ug/L
RT: 15.506 min Scan# 2398
Delta R.T. -0.006 min
Lab File: B7370.D
Acq: 6 Aug 2016 4:30 pm

Tgt Ion:128 Resp: 3347

Ion	Ratio	Lower	Upper
128	100		
127	14.3	0.0	32.8
102	9.7	0.0	28.5



LSC Area Percent Report

Data Path : I:\ACQUDATA\MSVOA14\Data\080616\
Data File : B7370.D
Acq On : 6 Aug 2016 4:30 pm
Operator : F.Naegler
Sample : MBLK Inst : MSVOA14
Misc :
ALS Vial : 4 Sample Multiplier: 1

Integration Parameters: CPD4.P
Integrator: RTE
Smoothing : OFF Filtering: 5
Sampling : 1 Min Area: 1 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : I:\ACQUDATA\MSVOA14\Methods\S080316.M
Title : MS#14 - 8260 SOILS 10ml PURGE

Signal : TIC: B7370.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.319	553	563	576	rVV	188924	477676	30.34%	5.781%
2	4.477	576	589	605	rVB	259789	724946	46.05%	8.774%
3	4.892	643	657	671	rBV2	168986	467099	29.67%	5.653%
4	5.874	803	818	831	rBV	361401	1017318	64.63%	12.312%
5	7.904	1141	1151	1159	rVB4	9353	24129	1.53%	0.292%
6	8.684	1266	1279	1292	rBV	812359	1574177	100.00%	19.052%
7	10.610	1587	1595	1609	rBV	835169	1259434	80.01%	15.243%
8	11.994	1815	1822	1830	rBV	795426	1106529	70.29%	13.392%
9	12.098	1834	1839	1849	rVB	12454	19962	1.27%	0.242%
10	12.415	1886	1891	1895	rBV2	12717	20690	1.31%	0.250%
11	13.226	2018	2024	2033	rVB	1043032	1429262	90.79%	17.298%
12	13.573	2075	2081	2086	rBV2	16096	24216	1.54%	0.293%
13	14.354	2203	2209	2212	rBV2	15057	26043	1.65%	0.315%
14	14.390	2212	2215	2220	rVB2	19845	27260	1.73%	0.330%
15	15.488	2389	2395	2407	rBV4	13071	28495	1.81%	0.345%
16	16.146	2495	2503	2509	rBV	10929	19078	1.21%	0.231%
17	16.518	2558	2564	2570	rVB7	8319	16232	1.03%	0.196%

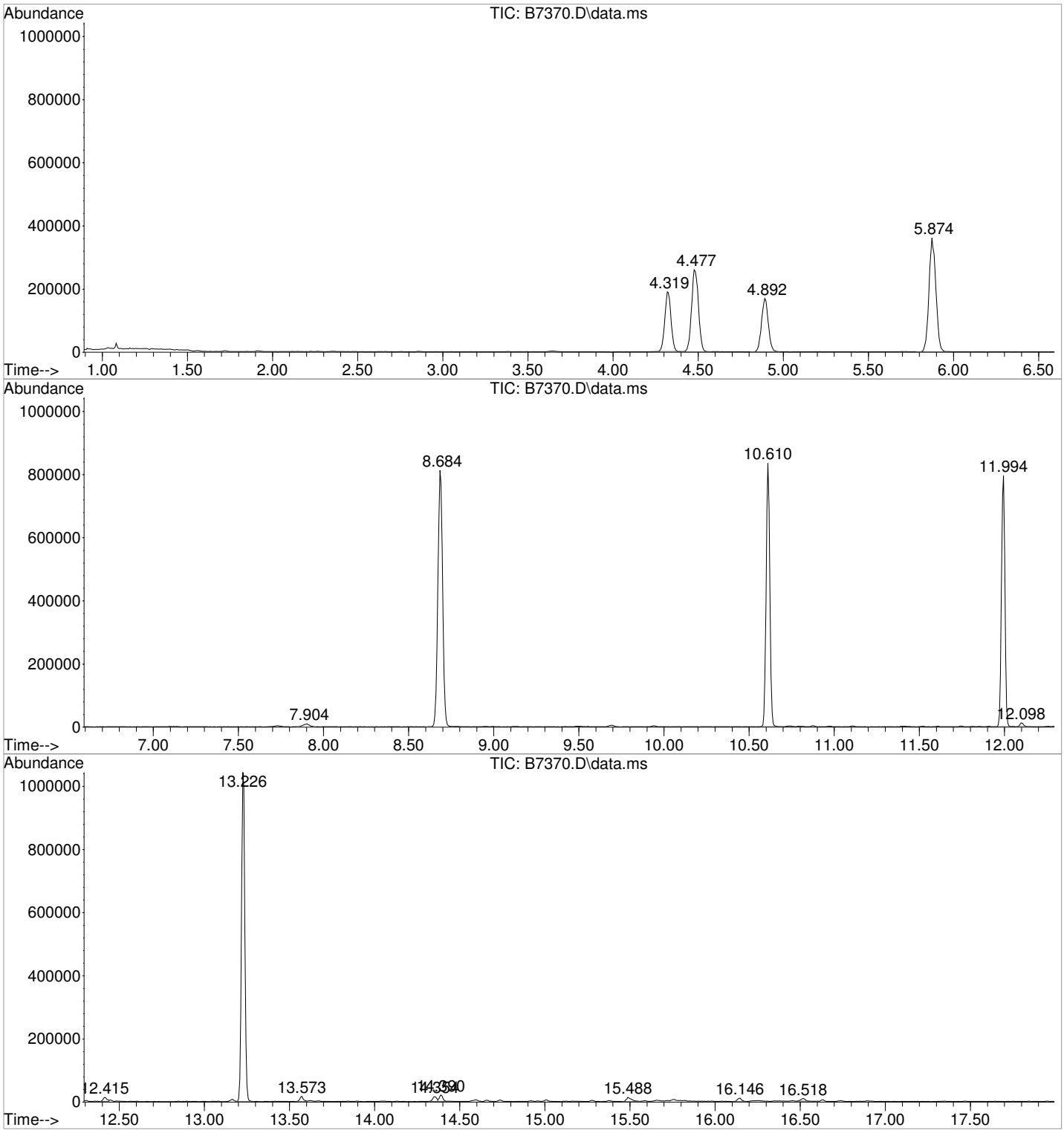
Sum of corrected areas: 8262546

LSC Report - Integrated Chromatogram

Data Path : I:\ACQUDATA\MSVOA14\Data\080616\
Data File : B7370.D
Acq On : 6 Aug 2016 4:30 pm
Operator : F.Naegler
Sample : MBLK Inst : MSVOA14
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Method : I:\ACQUDATA\MSVOA14\Methods\S080316.M
Quant Title : MS#14 - 8260 SOILS 10ml PURGE

TIC Library : I:\ACQUDATA\DATABASE\NBS75K.L
TIC Integration Parameters: LSCINT.P



Tentatively Identified Compound (LSC) summary

```
  Data Path : I:\ACQUDATA\MSVOA14\Data\080616\\
  Data File : B7370.D
  Acq On    :  6 Aug 2016   4:30 pmm
  Operator  : F.Naeglerr
  Sample    : MBLK                                    Inst    : MSVOA144
  Misc      :
  ALS Vial  : 4   Sample Multiplier: 11

  Quant Method : I:\ACQUDATA\MSVOA14\Methods\S080316.MM
  Quant Title  : MS#14 - 8260 SOILS 10ml PURGEE

  TIC Library   : I:\ACQUDATA\DATABASE\NBS75K.LL
  TIC Integration Parameters: LSCINT.PP

                                                     |--Internal Standard---|
  TIC Top Hit name      RT  EstConc Units Response |#    RT     Resp  Conc|
-------------------------------------------------------------------------------
```

No Library Search Compounds Detected
****

1st FN 08/09/16
2nd WR 08/09/16

LSC Area Percent Report

Data Path : I:\ACQUDATA\MSVOA14\Data\080616\
Data File : B7370.D
Acq On : 6 Aug 2016 4:30 pm
Operator : F.Naegler
Sample : MBLK Inst : MSVOA14
Misc :
ALS Vial : 4 Sample Multiplier: 1

Integration Parameters: CPD4.P
Integrator: RTE
Smoothing : OFF Filtering: 5
Sampling : 1 Min Area: 1 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : I:\ACQUDATA\MSVOA14\Methods\S080316.M
Title : MS#14 - 8260 SOILS 10ml PURGE

Signal : TIC: B7370.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.319	553	563	576	rVV	188924	477676	30.34%	5.781%
2	4.477	576	589	605	rVB	259789	724946	46.05%	8.774%
3	4.892	643	657	671	rBV2	168986	467099	29.67%	5.653%
4	5.874	803	818	831	rBV	361401	1017318	64.63%	12.312%
5	7.904	1141	1151	1159	rVB4	9353	24129	1.53%	0.292%
6	8.684	1266	1279	1292	rBV	812359	1574177	100.00%	19.052%
7	10.610	1587	1595	1609	rBV	835169	1259434	80.01%	15.243%
8	11.994	1815	1822	1830	rBV	795426	1106529	70.29%	13.392%
9	12.098	1834	1839	1849	rVB	12454	19962	1.27%	0.242%
10	12.415	1886	1891	1895	rBV2	12717	20690	1.31%	0.250%
11	13.226	2018	2024	2033	rVB	1043032	1429262	90.79%	17.298%
12	13.573	2075	2081	2086	rBV2	16096	24216	1.54%	0.293%
13	14.354	2203	2209	2212	rBV2	15057	26043	1.65%	0.315%
14	14.390	2212	2215	2220	rVB2	19845	27260	1.73%	0.330%
15	15.488	2389	2395	2407	rBV4	13071	28495	1.81%	0.345%
16	16.146	2495	2503	2509	rBV	10929	19078	1.21%	0.231%
17	16.518	2558	2564	2570	rVB7	8319	16232	1.03%	0.196%

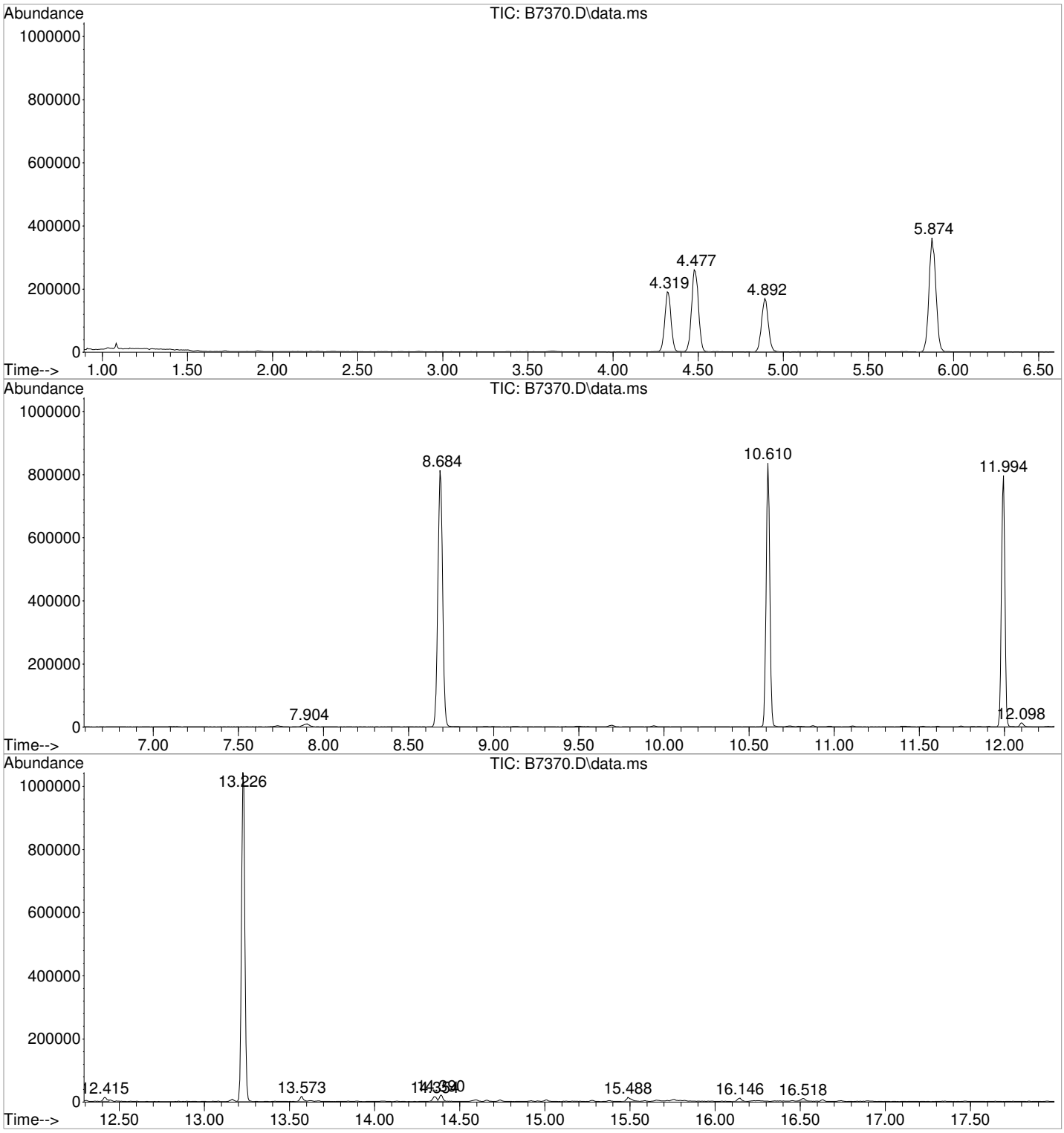
Sum of corrected areas: 8262546

LSC Report - Integrated Chromatogram

Data Path : I:\ACQUDATA\MSVOA14\Data\080616\
Data File : B7370.D
Acq On : 6 Aug 2016 4:30 pm
Operator : F.Naegler
Sample : MBLK Inst : MSVOA14
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Method : I:\ACQUDATA\MSVOA14\Methods\S080316.M
Quant Title : MS#14 - 8260 SOILS 10ml PURGE

TIC Library : I:\ACQUDATA\DATABASE\NBS75K.L
TIC Integration Parameters: LSCINT.P



1st FN 08/09/16
2nd WR 08/09/16

Tentatively Identified Compound (LSC) summary

Data Path : I:\ACQUDATA\MSVOA14\Data\080616\\
Data File : B7370.D
Acq On : 6 Aug 2016 4:30 pmm
Operator : F.Naeglerr
Sample : MBLK Inst : MSVOA144
Misc :
ALS Vial : 4 Sample Multiplier: 11

Quant Method : I:\ACQUDATA\MSVOA14\Methods\S080316.MM
Quant Title : MS#14 - 8260 SOILS 10ml PURGEE

TIC Library : I:\ACQUDATA\DATABASE\NBS75K.LL
TIC Integration Parameters: LSCINT.PP

TIC Top Hit name	RT	EstConc	Units	Response	Internal Standard #	RT	Resp	Conc

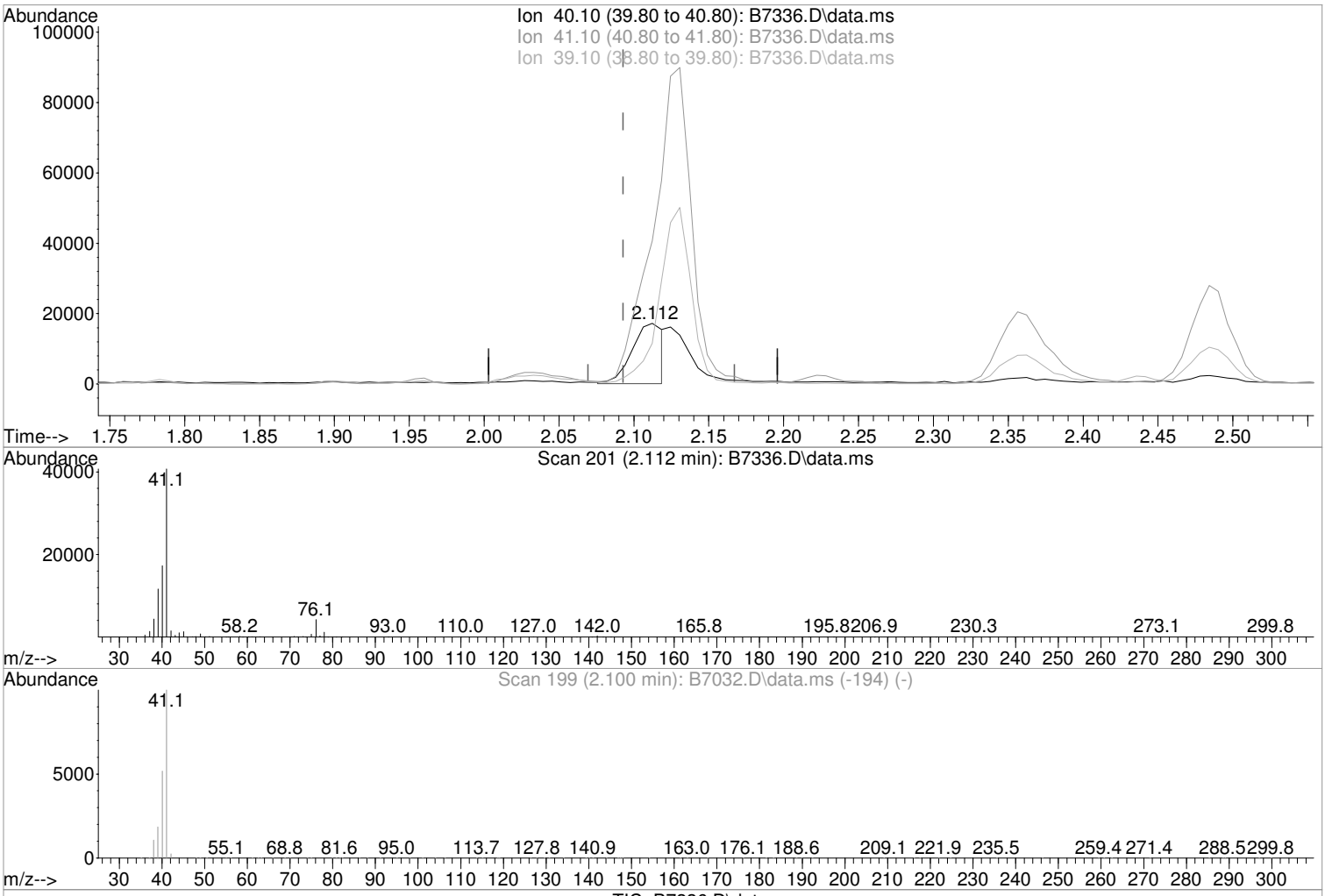
No Library Search Compounds Detected
****

1st FN 08/05/16
2nd KR 08/05/16

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\080416\
Data File : B7336.D
Acq On : 4 Aug 2016 10:16 am
Operator : F.Naegler
Sample : LCS Inst : MSVOA14
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 04 10:49:47 2016
Quant Method : I:\ACQUDATA\MSVOA14\Methods\S080316.M
Quant Title : MS#14 - 8260 SOILS 10ml PURGE
QLast Update : Wed Aug 03 16:40:37 2016
Response via : Initial Calibration



(19) Acetonitrile

2.112min (+0.019) 74.88 ug/L m

response 24489

Ion	Exp%	Act%
40.10	100	100
41.10	534.60	235.93#
39.10	371.40	67.32#
0.00	0.00	0.00

Manual Integration:

After

Poor integration.

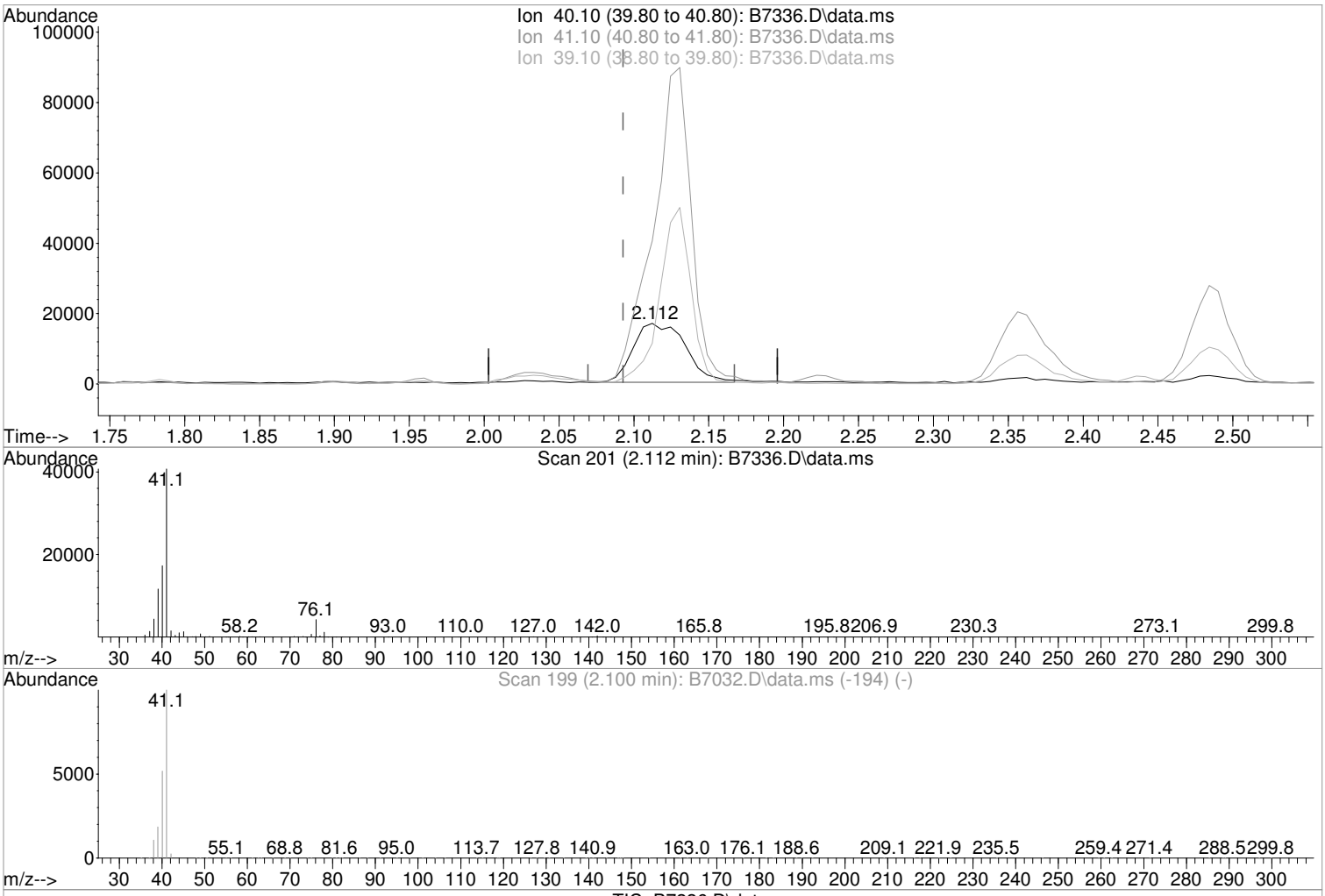
08/04/16

1st FN 08/05/16
2nd KR 08/05/16

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\080416\
Data File : B7336.D
Acq On : 4 Aug 2016 10:16 am
Operator : F.Naegler
Sample : LCS Inst : MSVOA14
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 04 10:49:47 2016
Quant Method : I:\ACQUDATA\MSVOA14\Methods\S080316.M
Quant Title : MS#14 - 8260 SOILS 10ml PURGE
QLast Update : Wed Aug 03 16:40:37 2016
Response via : Initial Calibration



(19) Acetonitrile

2.112min (+0.019) 124.36 ug/L

response 40669

Ion	Exp%	Act%
40.10	100	100
41.10	534.60	235.93#
39.10	371.40	67.32#
0.00	0.00	0.00

Manual Integration:

Before

08/04/16

1st FN 08/05/16
2nd WR 08/05/16

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA14\Data\080416\
Data File : B7336.D
Acq On : 4 Aug 2016 10:16 am
Operator : F.Naegler
Sample : LCS Inst : MSVOA14
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 04 10:50:19 2016
Quant Method : I:\ACQUDATA\MSVOA14\Methods\S080316.M
Quant Title : MS#14 - 8260 SOILS 10ml PURGE
QLast Update : Wed Aug 03 16:40:37 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.478	168	311427	50.00	ug/L	0.00
42) 1,4-Difluorobenzene	5.874	114	519129	50.00	ug/L	0.00
70) d5-Chlorobenzene	10.611	117	451902	50.00	ug/L	0.00
87) 1,4-Dichlorobenzene-d4	13.226	152	205608	50.00	ug/L	0.00
System Monitoring Compounds						
44) SURR4,Dibrflmethane	4.319	113	161856	52.21	ug/L	0.00
Spiked Amount 50.000	Range 63 - 138		Recovery = 104.42%			
47) SURR1,1,2-dichloroetha...	4.886	65	177647	50.81	ug/L	0.00
Spiked Amount 50.000	Range 67 - 128		Recovery = 101.62%			
64) SURR3,Toluene-d8	8.684	98	680872	53.63	ug/L	0.00
Spiked Amount 50.000	Range 66 - 138		Recovery = 107.26%			
69) SURR2,BFB	11.988	95	253367	54.31	ug/L	0.00
Spiked Amount 50.000	Range 51 - 136		Recovery = 108.62%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	0.930	85	100572	21.15	ug/L	100
3) Chloromethane	1.033	50	115391	19.88	ug/L	98
4) Vinyl Chloride	1.094	62	114266	20.77	ug/L	99
5) Bromomethane	1.289	94	64534	18.92	ug/L	100
6) Chloroethane	1.350	64	63525	21.18	ug/L	98
7) Freon 21	1.472	67	144649	19.59	ug/L	98
8) Trichlorofluoromethane	1.509	101	92919	19.29	ug/L	96
9) Diethyl Ether	1.704	59	74178	19.25	ug/L	91
10) Freon 123a	1.704	67	99573	19.50	ug/L	85
11) Freon 123	1.753	83	115845	19.69	ug/L	97
12) Acrolein	1.783	56	31542	33.48	ug/L	98
13) 1,1-Diclethene	1.856	96	69443	19.42	ug/L	96
14) Freon 113	1.862	101	66872	18.38	ug/L	89
15) Acetone	1.899	43	31392	16.93	ug/L	96
16) 2-Propanol	2.033	45	115776	310.84	ug/L	100
17) Iodomethane	1.960	142	34738	16.66	ug/L	97
18) Carbon Disulfide	2.009	76	225438	21.96	ug/L	100
19) Acetonitrile	2.112	40	24489m	74.88	ug/L	
20) Allyl Chloride	2.131	76	40466	18.03	ug/L #	88
21) Methyl Acetate	2.155	43	56980	16.20	ug/L	95
22) Methylene Chloride	2.228	84	84843	19.09	ug/L	96
23) TBA	2.356	59	189534	327.61	ug/L	85
24) Acrylonitrile	2.435	53	169732	87.76	ug/L	96
25) Methyl-t-Butyl Ether	2.484	73	228943	19.53	ug/L	95
26) trans-1,2-Dichloroethene	2.472	96	82934	19.88	ug/L	99
27) 1,1-Diclethane	2.880	63	142795	20.16	ug/L	98
28) Vinyl Acetate	2.966	86	16962	18.92	ug/L #	48
30) 2-Chloro-1,3-Butadiene	2.984	53	120867	20.32	ug/L	98
32) 2,2-Dichloropropane	3.575	77	86259	19.85	ug/L	95
33) cis-1,2-Dichloroethene	3.582	96	92749	20.44	ug/L	90
34) 2-Butanone	3.630	43	40511	16.00	ug/L	97
35) Propionitrile	3.691	54	63577	85.47	ug/L	94
36) Bromochloromethane	3.911	130	49527	19.58	ug/L	89
37) Methacrylonitrile	3.917	67	37587	19.01	ug/L	94
38) Tetrahydrofuran	4.002	42	24789	16.85	ug/L	86
39) Chloroform	4.063	83	133370	19.46	ug/L	96
40) 1,1,1-Trichloroethane	4.325	97	94607	19.73	ug/L	99
43) Cyclohexane	4.405	41	64422	17.36	ug/L	80
45) Carbontetrachloride	4.606	121	22363	19.00	ug/L	97

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA14\Data\080416\
Data File : B7336.D
Acq On : 4 Aug 2016 10:16 am
Operator : F.Naegler
Sample : LCS Inst : MSVOA14
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 04 10:50:19 2016
Quant Method : I:\ACQUDATA\MSVOA14\Methods\S080316.M
Quant Title : MS#14 - 8260 SOILS 10ml PURGE
QLast Update : Wed Aug 03 16:40:37 2016
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
46)	1,1-Dichloropropene	4.624	75	101763	18.43	ug/L		99
48)	Benzene	4.990	78	328363	19.84	ug/L		99
49)	1,2-Dichloroethane	5.039	62	95852	19.75	ug/L		95
50)	Iso-Butyl Alcohol	5.093	43	80232	340.73	ug/L		95
51)	n-Heptane	5.703	43	100537	17.82	ug/L		94
53)	Trichloroethene	6.362	130	75936	19.70	ug/L		99
54)	Methylcyclohexane	6.733	55	110275	18.82	ug/L		90
55)	1,2-Diclpropane	6.813	63	85794	19.85	ug/L		90
56)	Dibromomethane	7.044	93	47707	19.21	ug/L		92
57)	1,4-Dioxane	7.227	88	26742	383.86	ug/L		76
58)	Methyl Methacrylate	7.294	69	58489	18.80	ug/L		86
59)	Bromodichloromethane	7.459	83	91481	19.09	ug/L		99
60)	2-Nitropropane	7.904	41	22291	27.64	ug/L		82
61)	2-Chloroethylvinyl Ether	8.136	63	48222	20.70	ug/L		93
62)	cis-1,3-Dichloropropene	8.288	75	115629	19.11	ug/L		96
63)	4-Methyl-2-pentanone	8.617	43	71765	17.68	ug/L		97
65)	Toluene	8.782	91	335920	19.92	ug/L		99
66)	trans-1,3-Dichloropropene	9.178	75	95639	19.74	ug/L		98
67)	Ethyl Methacrylate	9.410	69	104580	19.28	ug/L		98
68)	1,1,2-Trichloroethane	9.404	97	71033	20.07	ug/L		90
71)	Tetrachloroethene	9.550	164	56498	19.66	ug/L		94
72)	2-Hexanone	9.824	43	56809	18.65	ug/L		96
73)	1,3-Dichloropropane	9.617	76	125003	19.17	ug/L		97
74)	Dibromochloromethane	9.897	129	65540	19.89	ug/L		99
75)	N-Butyl Acetate	10.056	43	109737	17.80	ug/L		97
76)	1,2-Dibromoethane	9.989	107	68862	20.11	ug/L		93
77)	Chlorobenzene	10.641	112	207862	19.33	ug/L		95
78)	1,1,1,2-Tetrachloroethane	10.769	131	60590	18.55	ug/L		93
79)	Ethylbenzene	10.818	106	110497	19.63	ug/L		99
80)	(m+p)Xylene	10.970	106	277883	40.68	ug/L		98
81)	o-Xylene	11.415	106	137188	20.01	ug/L		97
82)	Styrene	11.434	104	235326	20.16	ug/L		97
83)	Bromoform	11.598	173	39285	19.96	ug/L		98
84)	Isopropylbenzene	11.854	105	341092	19.68	ug/L		99
85)	Cyclohexanone	11.903	55	307756	368.38	ug/L		92
86)	trans-1,4-Dichloro-2-B...	12.257	53	21723	18.79	ug/L		82
88)	1,1,2,2-Tetrachloroethane	12.196	83	103335	21.19	ug/L		96
89)	Bromobenzene	12.123	156	85553	21.08	ug/L	#	83
90)	1,2,3-Trichloropropane	12.214	110	26841	19.88	ug/L	#	83
91)	n-Propylbenzene	12.305	91	425398	21.36	ug/L		98
92)	2-Chlorotoluene	12.360	91	240874	21.32	ug/L		99
93)	4-Chlorotoluene	12.482	91	293804	21.56	ug/L		96
94)	1,3,5-Trimethylbenzene	12.513	105	285948	21.41	ug/L		98
95)	tert-Butylbenzene	12.848	119	241893	21.23	ug/L		98
96)	1,2,4-Trimethylbenzene	12.897	105	287389	20.60	ug/L		97
97)	sec-Butylbenzene	13.080	105	377642	20.92	ug/L		99
98)	p-Isopropyltoluene	13.244	119	284930	19.71	ug/L		98
99)	1,3-Dclbenz	13.153	146	165712	21.36	ug/L		98
100)	1,4-Dclbenz	13.250	146	161796	20.15	ug/L		95
101)	n-Butylbenzene	13.671	91	304894	21.16	ug/L		98
102)	1,2-Dclbenz	13.628	146	155889	20.60	ug/L		98
103)	1,2-Dibromo-3-chloropr...	14.433	157	15801	19.16	ug/L		96
104)	1,2,4-Tcbenzene	15.274	180	106877	19.10	ug/L		97
105)	Hexachlorobt	15.476	225	54795	19.36	ug/L		97
106)	Naphthalen	15.506	128	285584	19.79	ug/L		99
107)	1,2,3-Tclbenzene	15.756	180	101031	18.51	ug/L		96

1st FN 08/05/16
2nd WR 08/05/16

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA14\Data\080416\
Data File : B7336.D
Acq On : 4 Aug 2016 10:16 am
Operator : F.Naegler
Sample : LCS Inst : MSVOA14
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 04 10:50:19 2016
Quant Method : I:\ACQUDATA\MSVOA14\Methods\S080316.M
Quant Title : MS#14 - 8260 SOILS 10ml PURGE
QLast Update : Wed Aug 03 16:40:37 2016
Response via : Initial Calibration

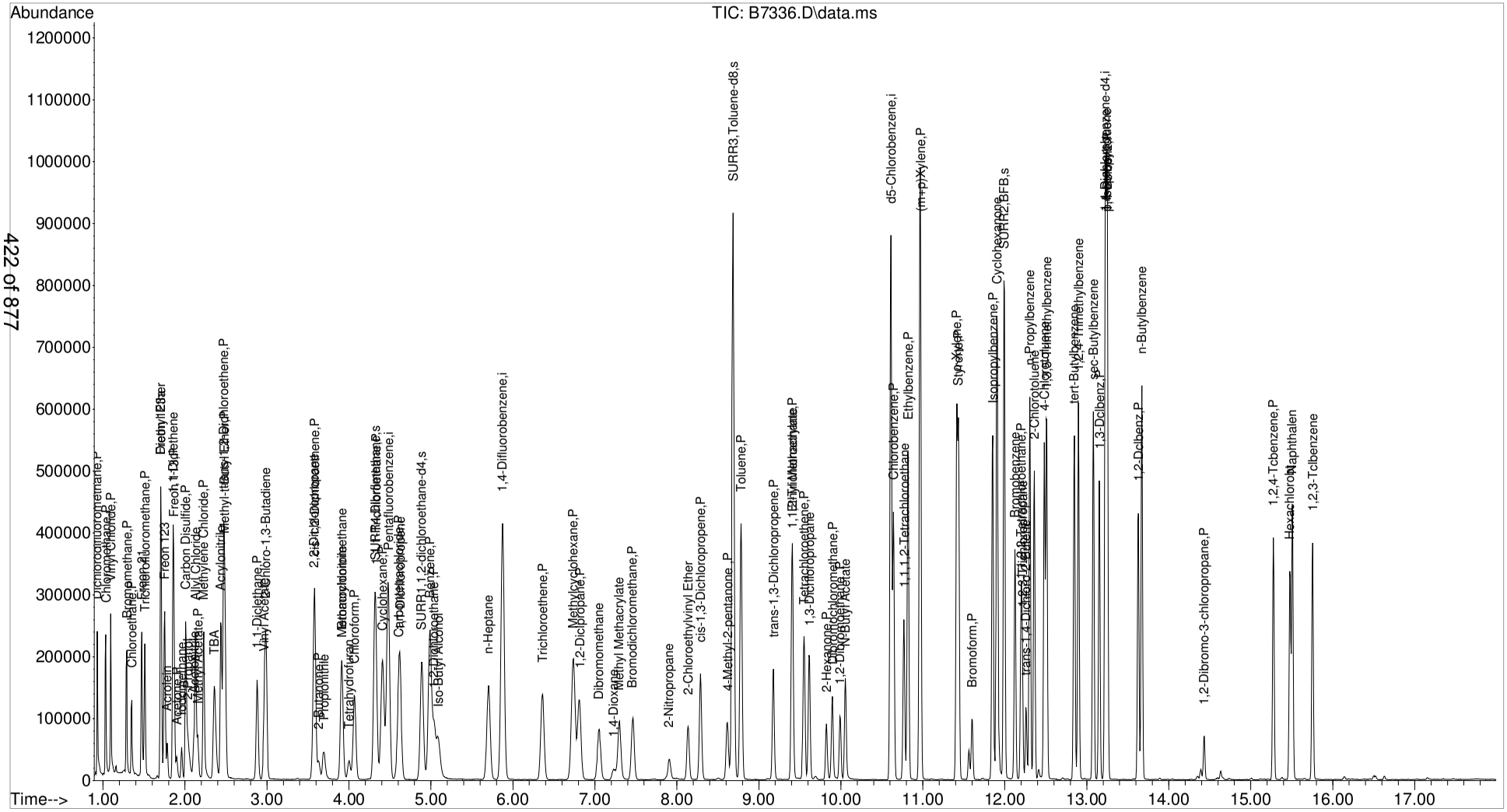
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA14\Data\080416\
Data File : B7336.D
Acq On : 4 Aug 2016 10:16 am
Operator : F.Naegler
Sample : LCS Inst : MSVOA14
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 04 10:50:19 2016
Quant Method : I:\ACQUDATA\MSVOA14\Methods\S080316.M
Quant Title : MS#14 - 8260 SOILS 10ml PURGE
QLast Update : Wed Aug 03 16:40:37 2016
Response via : Initial Calibration



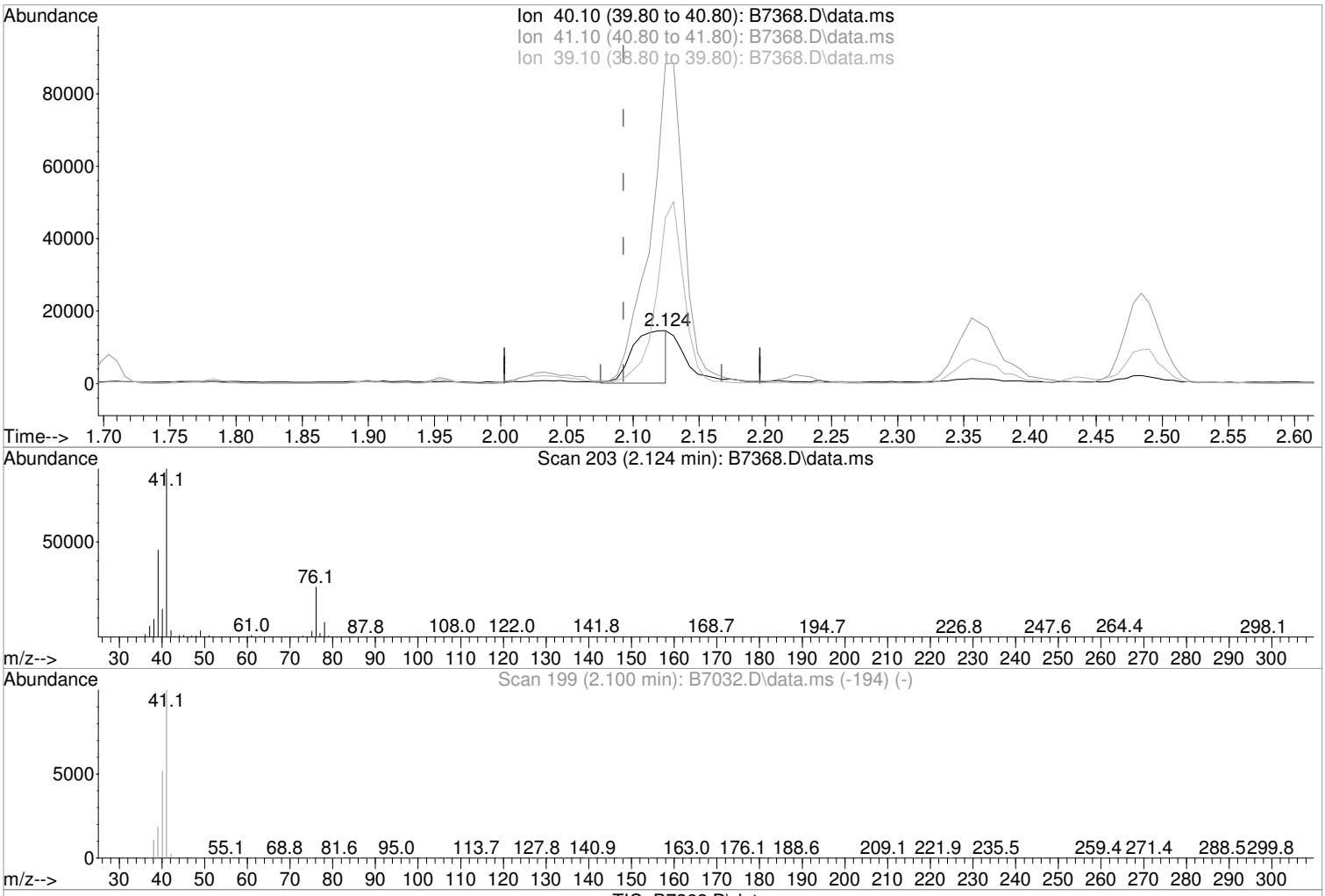
1st FJ 08/05/16
2nd 08/05/16

1st FN 08/09/16
2nd WR 08/09/16

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\080616\
Data File : B7368.D
Acq On : 6 Aug 2016 3:42 pm
Operator : F.Naegler
Sample : LCS Inst : MSVOA14
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 06 16:29:48 2016
Quant Method : I:\ACQUDATA\MSVOA14\Methods\S080316.M
Quant Title : MS#14 - 8260 SOILS 10ml PURGE
QLast Update : Wed Aug 03 16:40:37 2016
Response via : Initial Calibration



(19) Acetonitrile

2.124min (+0.031) 92.42 ug/L m

response 26533

Ion	Exp%	Act%
40.10	100	100
41.10	534.60	603.25#
39.10	371.40	312.49#
0.00	0.00	0.00

Manual Integration:

After

Poor integration.

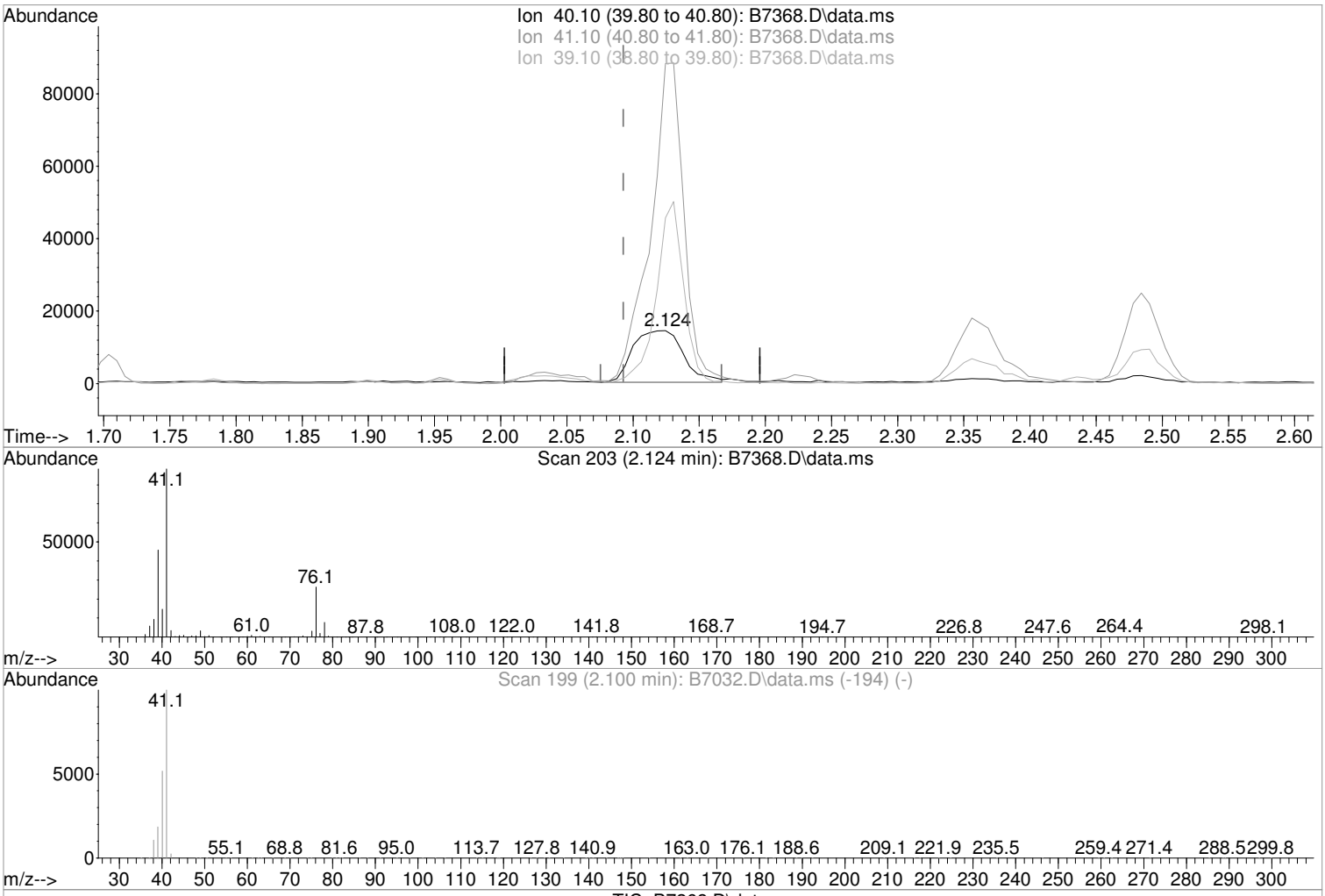
08/06/16

1st FN 08/09/16
2nd WR 08/09/16

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\080616\
Data File : B7368.D
Acq On : 6 Aug 2016 3:42 pm
Operator : F.Naegler
Sample : LCS Inst : MSVOA14
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 06 16:29:48 2016
Quant Method : I:\ACQUDATA\MSVOA14\Methods\S080316.M
Quant Title : MS#14 - 8260 SOILS 10ml PURGE
QLast Update : Wed Aug 03 16:40:37 2016
Response via : Initial Calibration



TIC: B7368.D\data.ms

(19) Acetonitrile

2.124min (+0.031) 132.07 ug/L

response 37914

Ion	Exp%	Act%
40.10	100	100
41.10	534.60	603.25#
39.10	371.40	312.49#
0.00	0.00	0.00

Manual Integration:

Before

08/06/16

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA14\Data\080616\
Data File : B7368.D
Acq On : 6 Aug 2016 3:42 pm
Operator : F.Naegler
Sample : LCS Inst : MSVOA14
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 06 16:30:24 2016
Quant Method : I:\ACQUDATA\MSVOA14\Methods\S080316.M
Quant Title : MS#14 - 8260 SOILS 10ml PURGE
QLast Update : Wed Aug 03 16:40:37 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.484	168	273375	50.00	ug/L	0.00
42) 1,4-Difluorobenzene	5.874	114	444380	50.00	ug/L	0.00
70) d5-Chlorobenzene	10.611	117	455586	50.00	ug/L	0.00
87) 1,4-Dichlorobenzene-d4	13.226	152	217122	50.00	ug/L	0.00
System Monitoring Compounds						
44) SURR4,Dibrflmethane	4.319	113	156703	59.05	ug/L	0.00
Spiked Amount 50.000	Range 63 - 138		Recovery = 118.10%			
47) SURR1,1,2-dichloroetha...	4.886	65	171246	57.22	ug/L	0.00
Spiked Amount 50.000	Range 67 - 128		Recovery = 114.44%			
64) SURR3,Toluene-d8	8.684	98	695230	63.97	ug/L	0.00
Spiked Amount 50.000	Range 66 - 138		Recovery = 127.94%			
69) SURR2,BFB	11.988	95	236229	59.15	ug/L	0.00
Spiked Amount 50.000	Range 51 - 136		Recovery = 118.30%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	0.930	85	98512	23.60	ug/L	99
3) Chloromethane	1.033	50	110094	21.61	ug/L	99
4) Vinyl Chloride	1.094	62	110070	22.80	ug/L	99
5) Bromomethane	1.289	94	62242	20.94	ug/L	100
6) Chloroethane	1.350	64	55478	21.07	ug/L	100
7) Freon 21	1.472	67	135428	20.89	ug/L	98
8) Trichlorofluoromethane	1.509	101	89462	21.16	ug/L	100
9) Diethyl Ether	1.704	59	72972	21.58	ug/L	93
10) Freon 123a	1.704	67	100848	22.50	ug/L	83
11) Freon 123	1.753	83	115944	22.46	ug/L	93
12) Acrolein	1.783	56	29685	35.89	ug/L	98
13) 1,1-Diclethene	1.856	96	68709	21.89	ug/L	96
14) Freon 113	1.862	101	66874	20.94	ug/L	93
15) Acetone	1.899	43	30219	18.80	ug/L	92
16) 2-Propanol	2.033	45	109739	335.64	ug/L	95
17) Iodomethane	1.960	142	38948	21.28	ug/L	92
18) Carbon Disulfide	2.009	76	226148	25.10	ug/L	99
19) Acetonitrile	2.124	40	26533m	92.42	ug/L	
20) Allyl Chloride	2.131	76	40325	20.46	ug/L #	83
21) Methyl Acetate	2.155	43	56637	18.34	ug/L	96
22) Methylene Chloride	2.228	84	86072	22.06	ug/L	97
23) TBA	2.356	59	175066	344.72	ug/L	87
24) Acrylonitrile	2.441	53	143877	84.75	ug/L	98
25) Methyl-t-Butyl Ether	2.484	73	213079	20.71	ug/L	98
26) trans-1,2-Dichloroethene	2.472	96	76130	20.79	ug/L	98
27) 1,1-Diclethane	2.880	63	119449	19.21	ug/L	99
28) Vinyl Acetate	2.966	86	15691	19.94	ug/L #	86
29) DIPE	3.002	45	204306	17.33	ug/L	93
30) 2-Chloro-1,3-Butadiene	2.990	53	108922	20.86	ug/L	96
31) ETBE	3.447	59	190079	18.51	ug/L	96
32) 2,2-Dichloropropane	3.575	77	81852	21.46	ug/L	95
33) cis-1,2-Dichloroethene	3.582	96	85759	21.53	ug/L	96
34) 2-Butanone	3.630	43	38895	17.50	ug/L	96
35) Propionitrile	3.691	54	58109	88.99	ug/L	95
36) Bromochloromethane	3.911	130	46957	21.15	ug/L	92
37) Methacrylonitrile	3.917	67	33500	19.30	ug/L	98
38) Tetrahydrofuran	4.002	42	23300	18.04	ug/L	87
39) Chloroform	4.069	83	128931	21.43	ug/L	97
40) 1,1,1-Trichloroethane	4.319	97	90068	21.39	ug/L	95

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA14\Data\080616\
Data File : B7368.D
Acq On : 6 Aug 2016 3:42 pm
Operator : F.Naegler
Sample : LCS Inst : MSVOA14
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 06 16:30:24 2016
Quant Method : I:\ACQUDATA\MSVOA14\Methods\S080316.M
Quant Title : MS#14 - 8260 SOILS 10ml PURGE
QLast Update : Wed Aug 03 16:40:37 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
41) TAME	5.331	73	166992	18.11 ug/L	93
43) Cyclohexane	4.411	41	64408	20.28 ug/L	84
45) Carbontetrachloride	4.606	121	22579	22.41 ug/L	94
46) 1,1-Dichloropropene	4.618	75	100939	21.35 ug/L	97
48) Benzene	4.990	78	315492	22.27 ug/L	100
49) 1,2-Dichloroethane	5.032	62	89685	21.59 ug/L	95
50) Iso-Butyl Alcohol	5.087	43	73096	362.64 ug/L	92
51) n-Heptane	5.703	43	89555	18.55 ug/L	98
52) 1-Butanol	6.550	56	108193	816.29 ug/L	99
53) Trichloroethene	6.355	130	70704	21.43 ug/L	96
54) Methylcyclohexane	6.733	55	96465	19.23 ug/L	96
55) 1,2-Diclpropane	6.813	63	73598	19.89 ug/L	98
56) Dibromomethane	7.050	93	43044	20.24 ug/L	97
57) 1,4-Dioxane	7.239	88	23423	392.77 ug/L	92
58) Methyl Methacrylate	7.294	69	53175	19.97 ug/L	90
59) Bromodichloromethane	7.459	83	85452	20.84 ug/L	100
60) 2-Nitropropane	7.904	41	23171	33.56 ug/L	91
61) 2-Chloroethylvinyl Ether	8.135	63	48473	24.31 ug/L	99
62) cis-1,3-Dichloropropene	8.288	75	111831	21.59 ug/L	98
63) 4-Methyl-2-pentanone	8.611	43	71431	20.56 ug/L	96
65) Toluene	8.782	91	328692	22.77 ug/L	97
66) trans-1,3-Dichloropropene	9.178	75	92013	22.18 ug/L	100
67) Ethyl Methacrylate	9.410	69	99701	21.47 ug/L	95
68) 1,1,2-Trichloroethane	9.410	97	69121	22.81 ug/L	90
71) Tetrachloroethene	9.550	164	57613	19.89 ug/L	95
72) 2-Hexanone	9.824	43	54902	17.88 ug/L	94
73) 1,3-Dichloropropane	9.611	76	119346	18.16 ug/L	97
74) Dibromochloromethane	9.897	129	58737	17.68 ug/L	97
75) N-Butyl Acetate	10.056	43	101752	16.37 ug/L	99
76) 1,2-Dibromoethane	9.989	107	64364	18.65 ug/L	97
77) Chlorobenzene	10.641	112	204398	18.85 ug/L	96
78) 1,1,1,2-Tetrachloroethane	10.769	131	63519	19.29 ug/L	98
79) Ethylbenzene	10.818	106	112917	19.90 ug/L	99
80) (m+p)Xylene	10.970	106	268824	39.04 ug/L	98
81) o-Xylene	11.415	106	123756	17.90 ug/L	96
82) Styrene	11.434	104	210407	17.88 ug/L	97
83) Bromoform	11.604	173	35425	17.85 ug/L	96
84) Isopropylbenzene	11.854	105	312639	17.89 ug/L	98
85) Cyclohexanone	11.903	55	251102	298.14 ug/L	89
86) trans-1,4-Dichloro-2-B...	12.257	53	17572	15.08 ug/L	77
88) 1,1,2,2-Tetrachloroethane	12.196	83	86162	16.73 ug/L	99
89) Bromobenzene	12.123	156	78163	18.24 ug/L	92
90) 1,2,3-Trichloropropane	12.214	110	23288	16.33 ug/L	91
91) n-Propylbenzene	12.305	91	378821	18.02 ug/L	99
92) 2-Chlorotoluene	12.360	91	216399	18.14 ug/L	97
93) 4-Chlorotoluene	12.482	91	259624	18.04 ug/L	97
94) 1,3,5-Trimethylbenzene	12.513	105	261817	18.56 ug/L	98
95) tert-Butylbenzene	12.848	119	222178	18.46 ug/L	98
96) 1,2,4-Trimethylbenzene	12.897	105	264669	17.97 ug/L	96
97) sec-Butylbenzene	13.080	105	339713	17.82 ug/L	97
98) p-Isopropyltoluene	13.250	119	283135	18.55 ug/L	97
99) 1,3-Dclbenz	13.153	146	151622	18.50 ug/L	100
100) 1,4-Dclbenz	13.250	146	151944	17.92 ug/L	99
101) n-Butylbenzene	13.671	91	279434	18.36 ug/L	99
102) 1,2-Dclbenz	13.628	146	143658	17.98 ug/L	98
103) 1,2-Dibromo-3-chloropr...	14.433	157	14947	17.24 ug/L	94

1st FN 08/09/16
2nd WR 08/09/16

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA14\Data\080616\
Data File : B7368.D
Acq On : 6 Aug 2016 3:42 pm
Operator : F.Naegler
Sample : LCS Inst : MSVOA14
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 06 16:30:24 2016
Quant Method : I:\ACQUDATA\MSVOA14\Methods\S080316.M
Quant Title : MS#14 - 8260 SOILS 10ml PURGE
QLast Update : Wed Aug 03 16:40:37 2016
Response via : Initial Calibration

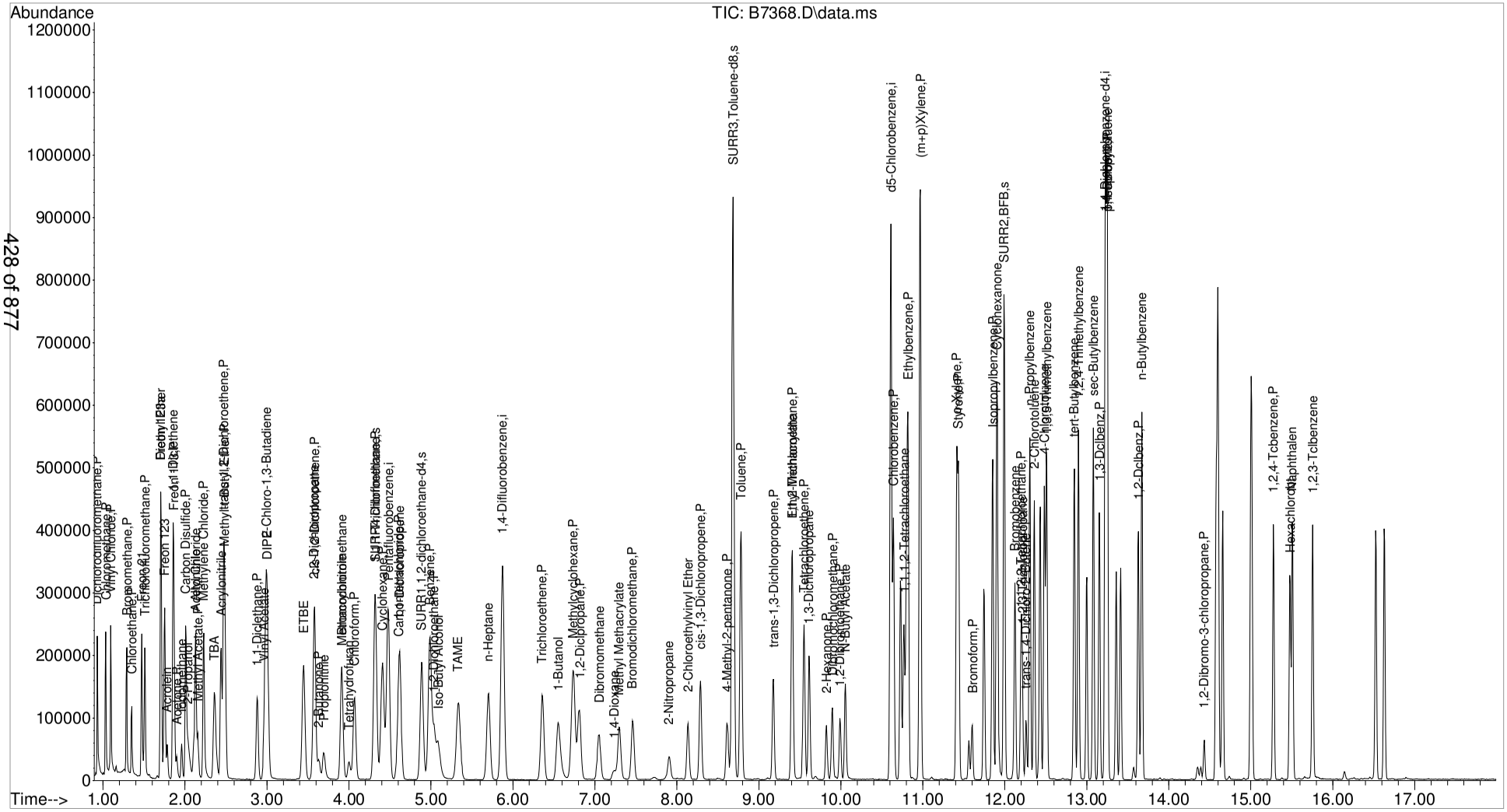
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
104) 1,2,4-Tcbenzene	15.274	180	106688	18.05 ug/L	97
105) Hexachlorobt	15.482	225	54321	18.17 ug/L	96
106) Naphthalen	15.506	128	271831	17.83 ug/L	97
107) 1,2,3-Tclbenzene	15.756	180	103605	17.97 ug/L	95

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

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA14\Data\080616\
Data File : B7368.D
Acq On : 6 Aug 2016 3:42 pm
Operator : F.Naegler
Sample : LCS Inst : MSVOA14
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 06 16:30:24 2016
Quant Method : I:\ACQUDATA\MSVOA14\Methods\S080316.M
Quant Title : MS#14 - 8260 SOILS 10ml PURGE
QLast Update : Wed Aug 03 16:40:37 2016
Response via : Initial Calibration



428 of 877

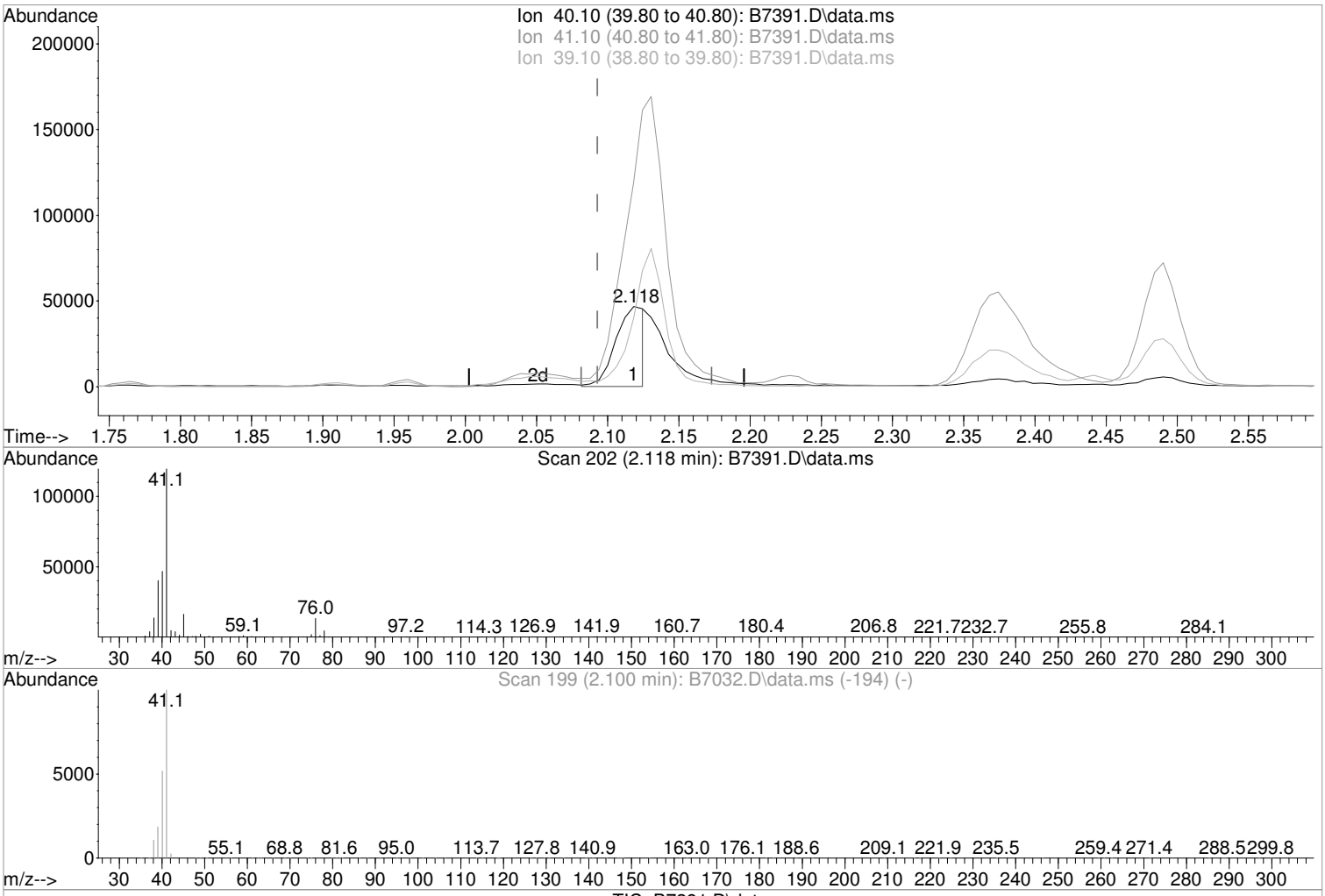
1st FJ 08/09/16
2nd 08/09/16

1st FN 08/09/16
2nd KR 08/09/16

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\080616\
Data File : B7391.D
Acq On : 7 Aug 2016 12:59 am
Operator : F.Naegler
Sample : R1607963-017MS|4.95 Inst : MSVOA14
Misc : ALS 15946 T4
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Aug 08 08:46:57 2016
Quant Method : I:\ACQUDATA\MSVOA14\Methods\S080316.M
Quant Title : MS#14 - 8260 SOILS 10ml PURGE
QLast Update : Wed Aug 03 16:40:37 2016
Response via : Initial Calibration



TIC: B7391.D\data.ms

(19) Acetonitrile

2.118min (+0.025) 271.64 ug/L m

response 65173

Ion	Exp%	Act%
40.10	100	100
41.10	534.60	255.64#
39.10	371.40	85.80#
0.00	0.00	0.00

Manual Integration:

After

Poor integration.

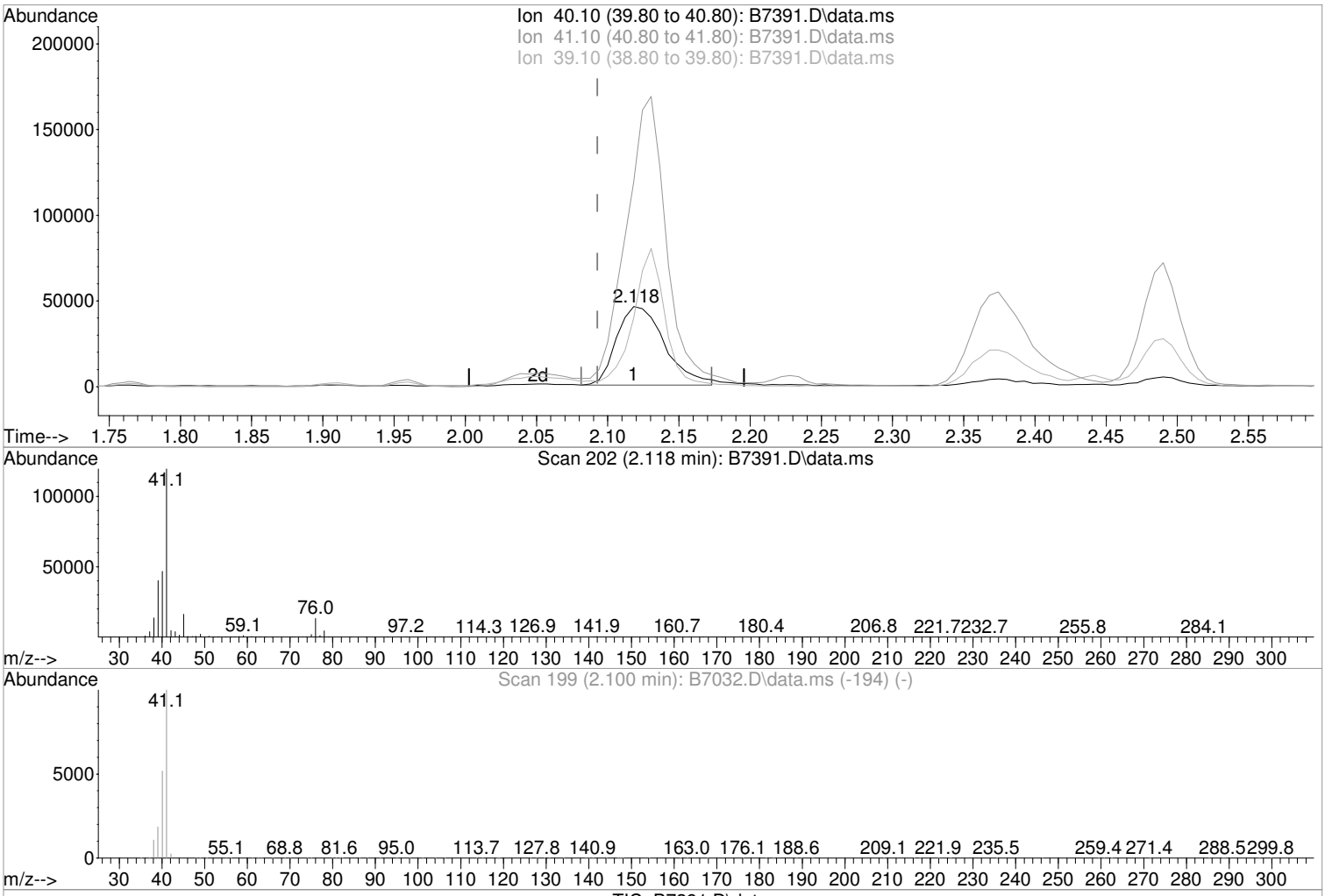
08/09/16

1st FN 08/09/16
2nd WR 08/09/16

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\080616\
Data File : B7391.D
Acq On : 7 Aug 2016 12:59 am
Operator : F.Naegler
Sample : R1607963-017MS|4.95 Inst : MSVOA14
Misc : ALS 15946 T4
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Aug 08 08:46:57 2016
Quant Method : I:\ACQUDATA\MSVOA14\Methods\S080316.M
Quant Title : MS#14 - 8260 SOILS 10ml PURGE
QLast Update : Wed Aug 03 16:40:37 2016
Response via : Initial Calibration



TIC: B7391.D\data.ms

(19) Acetonitrile

2.118min (+0.025) 446.67 ug/L

response 107168

Ion	Exp%	Act%
40.10	100	100
41.10	534.60	255.64#
39.10	371.40	85.80#
0.00	0.00	0.00

Manual Integration:

Before

08/09/16

1st FN 08/09/16
2nd WR 08/09/16

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA14\Data\080616\
Data File : B7391.D
Acq On : 7 Aug 2016 12:59 am
Operator : F.Naegler
Sample : R1607963-017MS|4.95 Inst : MSVOA14
Misc : ALS 15946 T4
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Aug 09 14:26:59 2016
Quant Method : I:\ACQUDATA\MSVOA14\Methods\S080316.M
Quant Title : MS#14 - 8260 SOILS 10ml PURGE
QLast Update : Wed Aug 03 16:40:37 2016
Response via : Initial Calibration

surr high

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.484	168	228475	50.00	ug/L	0.00
42) 1,4-Difluorobenzene	5.880	114	400061	50.00	ug/L	0.00
70) d5-Chlorobenzene	10.610	117	480104	50.00	ug/L	0.00
87) 1,4-Dichlorobenzene-d4	13.226	152	260953	50.00	ug/L	0.00
System Monitoring Compounds						
44) SURR4,Dibrflmethane	4.319	113	95457	39.95	ug/L	0.00
Spiked Amount 50.000	Range 63 - 138		Recovery = 79.90%			
47) SURR1,1,2-dichloroetha...	4.892	65	169170	62.79	ug/L	0.00
Spiked Amount 50.000	Range 67 - 128		Recovery = 125.58%			
64) SURR3,Toluene-d8	8.684	98	638620	65.27	ug/L	0.00
Spiked Amount 50.000	Range 66 - 138		Recovery = 130.54%			
69) SURR2,BFB	11.994	95	254491	70.78	ug/L	0.00
Spiked Amount 50.000	Range 51 - 136		Recovery = 141.56%#			*
Target Compounds						Qvalue
2) Dichlorodifluoromethane	0.929	85	216485	62.06	ug/L	99
3) Chloromethane	1.033	50	244311	57.37	ug/L	100
4) Vinyl Chloride	1.094	62	252142	62.48	ug/L	100
5) Bromomethane	1.289	94	129993	60.19	ug/L	99
6) Chloroethane	1.350	64	113331	51.51	ug/L	97
7) Freon 21	1.472	67	292562	54.00	ug/L	100
8) Trichlorofluoromethane	1.509	101	191508	54.19	ug/L	100
9) Diethyl Ether	1.704	59	192612	68.14	ug/L	92
10) Freon 123a	1.710	67	197081	52.61	ug/L	90
11) Freon 123	1.752	83	242361	56.16	ug/L	95
12) Acrolein	1.789	56	2823	4.08	ug/L	79
13) 1,1-Diclethene	1.856	96	212514	80.99	ug/L	97
14) Freon 113	1.862	101	144229	54.03	ug/L	91
15) Acetone	1.905	43	96957	78.87	ug/L	94
16) 2-Propanol	2.045	45	400288	1464.90	ug/L	97
17) Iodomethane	1.960	142	52212	34.13	ug/L	96
18) Carbon Disulfide	2.008	76	406229	53.94	ug/L	99
19) Acetonitrile	2.118	40	65173m	271.64	ug/L	
20) Allyl Chloride	2.130	76	54890	33.33	ug/L #	65
21) Methyl Acetate	2.228	43	1178	0.46	ug/L	72
22) Methylene Chloride	2.228	84	212016	65.02	ug/L	96
23) TBA	2.374	59	645378	1520.57	ug/L	85
24) Acrylonitrile	2.441	53	462502	325.97	ug/L	98
25) Methyl-t-Butyl Ether	2.490	73	586562	68.21	ug/L	95
26) trans-1,2-Dichloroethene	2.472	96	181748	59.38	ug/L	96
27) 1,1-Diclethane	2.886	63	326950	62.92	ug/L	98
28) Vinyl Acetate	3.002	86	1321	2.01	ug/L #	1
29) DIPE	3.008	45	610387	61.93	ug/L	91
30) 2-Chloro-1,3-Butadiene	2.990	53	277626	63.62	ug/L	98
31) ETBE	3.453	59	499552	58.21	ug/L	96
32) 2,2-Dichloropropane	3.581	77	151390	47.49	ug/L	97
33) cis-1,2-Dichloroethene	3.587	96	203079	61.01	ug/L	94
34) 2-Butanone	3.636	43	106837	57.50	ug/L	99
35) Propionitrile	3.703	54	192304	352.39	ug/L	94
36) Bromochloromethane	3.911	130	116988	63.04	ug/L #	83
37) Methacrylonitrile	3.923	67	103062	71.04	ug/L	93
38) Tetrahydrofuran	4.002	42	65928	61.08	ug/L	89
39) Chloroform	4.069	83	292961	58.27	ug/L	97
40) 1,1,1-Trichloroethane	4.331	97	206185	58.60	ug/L	98

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA14\Data\080616\
Data File : B7391.D
Acq On : 7 Aug 2016 12:59 am
Operator : F.Naegler
Sample : R1607963-017MS|4.95 Inst : MSVOA14
Misc : ALS 15946 T4
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Aug 09 14:26:59 2016
Quant Method : I:\ACQUDATA\MSVOA14\Methods\S080316.M
Quant Title : MS#14 - 8260 SOILS 10ml PURGE
QLast Update : Wed Aug 03 16:40:37 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
41) TAME	5.343	73	437742	56.80 ug/L	95
43) Cyclohexane	4.417	41	116427	40.72 ug/L	82
45) Carbontetrachloride	4.612	121	46402	51.16 ug/L	99
46) 1,1-Dichloropropene	4.624	75	204871	48.14 ug/L	96
48) Benzene	4.990	78	870783	68.28 ug/L	99
49) 1,2-Dichloroethane	5.038	62	225818	60.39 ug/L	93
50) Iso-Butyl Alcohol	5.105	43	260536	1435.73 ug/L	93
51) n-Heptane	5.709	43	172515	39.69 ug/L	96
52) 1-Butanol	6.569	56	465075	3897.59 ug/L	100
53) Trichloroethene	6.361	130	339182	114.20 ug/L	95
54) Methylcyclohexane	6.739	55	199274	44.13 ug/L	94
55) 1,2-Diclpropane	6.806	63	202006	60.64 ug/L	95
56) Dibromomethane	7.056	93	121807	63.63 ug/L	97
57) 1,4-Dioxane	7.251	88	87285	1625.79 ug/L	96
59) Bromodichloromethane	7.465	83	195508	52.95 ug/L	100
60) 2-Nitropropane	7.995	41	266	0.43 ug/L #	64
61) 2-Chloroethylvinyl Ether	8.141	63	151592	84.45 ug/L	94
62) cis-1,3-Dichloropropene	8.288	75	242788	52.06 ug/L	98
63) 4-Methyl-2-pentanone	8.617	43	226522	72.41 ug/L	98
65) Toluene	8.782	91	766270	58.97 ug/L	100
66) trans-1,3-Dichloropropene	9.178	75	182081	48.76 ug/L	99
67) Ethyl Methacrylate	9.416	69	10002	2.39 ug/L	91
68) 1,1,2-Trichloroethane	9.409	97	113133	41.48 ug/L #	80
71) Tetrachloroethene	9.550	164	124219	40.69 ug/L	98
72) 2-Hexanone	9.824	43	143836	44.45 ug/L	93
73) 1,3-Dichloropropane	9.617	76	316475	45.69 ug/L	97
74) Dibromochloromethane	9.897	129	137629	39.32 ug/L	97
76) 1,2-Dibromoethane	9.995	107	161313	44.35 ug/L	97
77) Chlorobenzene	10.641	112	480375	42.04 ug/L	99
78) 1,1,1,2-Tetrachloroethane	10.769	131	146975	42.36 ug/L	97
79) Ethylbenzene	10.824	106	260880	43.63 ug/L	94
80) (m+p)Xylene	10.970	106	659226	90.84 ug/L	96
81) o-Xylene	11.415	106	328806	45.14 ug/L	100
82) Styrene	11.433	104	565619	45.61 ug/L	99
83) Bromoform	11.604	173	100175	47.90 ug/L	100
84) Isopropylbenzene	11.854	105	802119	43.56 ug/L	99
85) Cyclohexanone	11.909	55	932767	1050.94 ug/L	93
86) trans-1,4-Dichloro-2-B...	12.263	53	31817	25.91 ug/L	80
88) 1,1,2,2-Tetrachloroethane	12.214	83	5498	0.89 ug/L	91
89) Bromobenzene	12.122	156	204160	39.64 ug/L #	82
90) 1,2,3-Trichloropropane	12.214	110	73091	42.64 ug/L #	87
91) n-Propylbenzene	12.305	91	959977	37.99 ug/L	98
92) 2-Chlorotoluene	12.360	91	548863	38.27 ug/L	97
93) 4-Chlorotoluene	12.482	91	659840	38.14 ug/L	97
94) 1,3,5-Trimethylbenzene	12.513	105	669772	39.51 ug/L	99
95) tert-Butylbenzene	12.848	119	559140	38.66 ug/L	99
96) 1,2,4-Trimethylbenzene	12.897	105	678034	38.30 ug/L	100
97) sec-Butylbenzene	13.079	105	838163	36.59 ug/L	97
98) p-Isopropyltoluene	13.250	119	669301	36.49 ug/L	98
99) 1,3-Dclbenz	13.153	146	369682	37.54 ug/L	99
100) 1,4-Dclbenz	13.250	146	371586	36.46 ug/L	97
101) n-Butylbenzene	13.671	91	647481	35.40 ug/L	100
102) 1,2-Dclbenz	13.628	146	1389603	144.67 ug/L	99
103) 1,2-Dibromo-3-chloropr...	14.433	157	28165	26.50 ug/L	93
104) 1,2,4-Tcbenzene	15.274	180	234648	33.04 ug/L	95
105) Hexachlorobt	15.481	225	113952	31.72 ug/L	99

1st FN 08/09/16
2nd WR 08/09/16

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA14\Data\080616\
Data File : B7391.D
Acq On : 7 Aug 2016 12:59 am
Operator : F.Naegler
Sample : R1607963-017MS|4.95 Inst : MSVOA14
Misc : ALS 15946 T4
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Aug 09 14:26:59 2016
Quant Method : I:\ACQUDATA\MSVOA14\Methods\S080316.M
Quant Title : MS#14 - 8260 SOILS 10ml PURGE
QLast Update : Wed Aug 03 16:40:37 2016
Response via : Initial Calibration

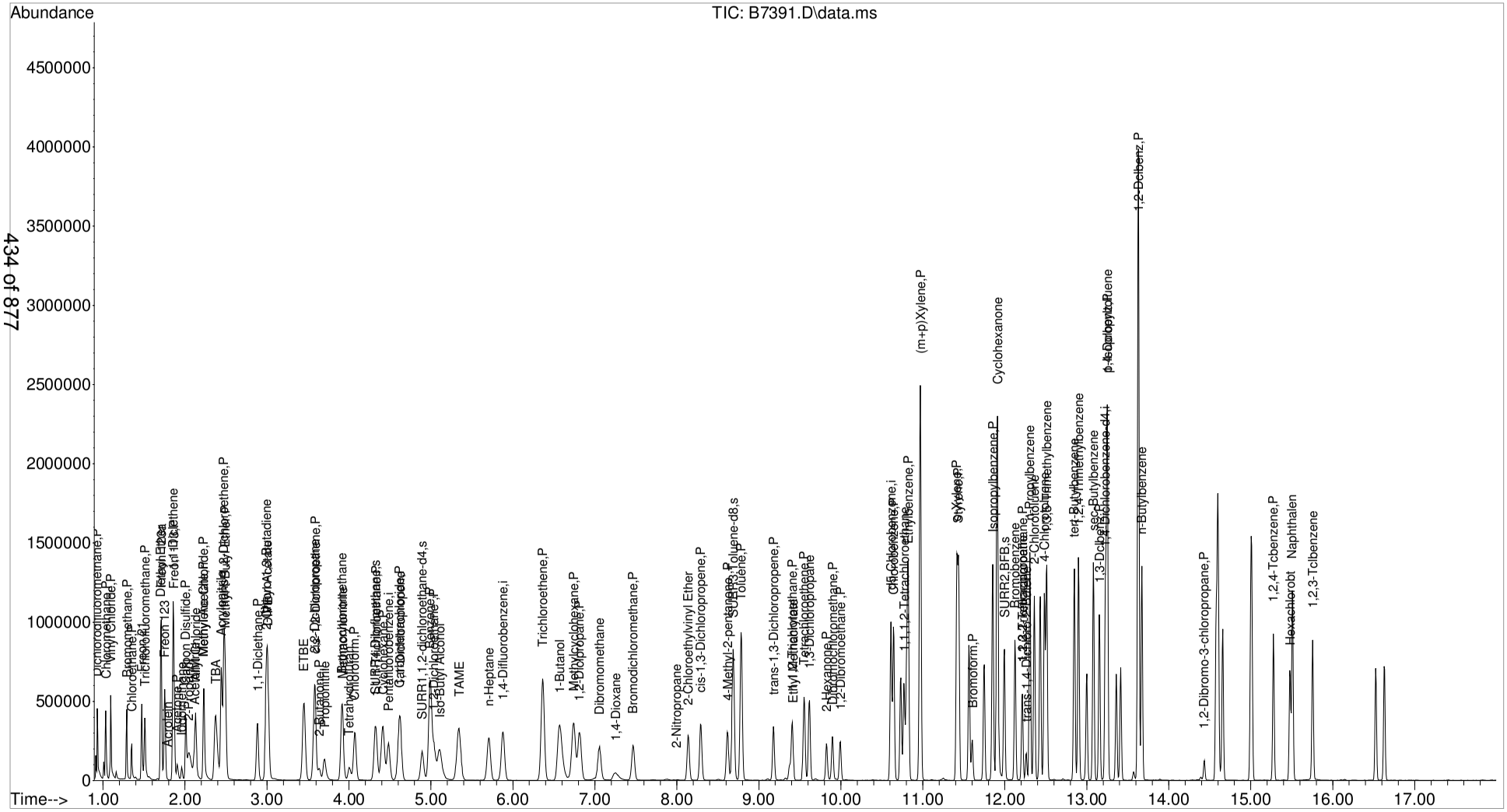
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
106) Naphthalen	15.506	128	791028	43.18 ug/L	99
107) 1,2,3-Tclbenzene	15.756	180	230163	33.22 ug/L	95

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

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA14\Data\080616\
Data File : B7391.D
Acq On : 7 Aug 2016 12:59 am
Operator : F.Naegler
Sample : R1607963-017MS|4.95 Inst : MSVOA14
Misc : ALS 15946 T4
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Aug 09 14:26:59 2016
Quant Method : I:\ACQUDATA\MSVOA14\Methods\S080316.M
Quant Title : MS#14 - 8260 SOILS 10ml PURGE
QLast Update : Wed Aug 03 16:40:37 2016
Response via : Initial Calibration



S080316.M Tue Aug 09 14:28:45 2016 MSVO10 Page: 4

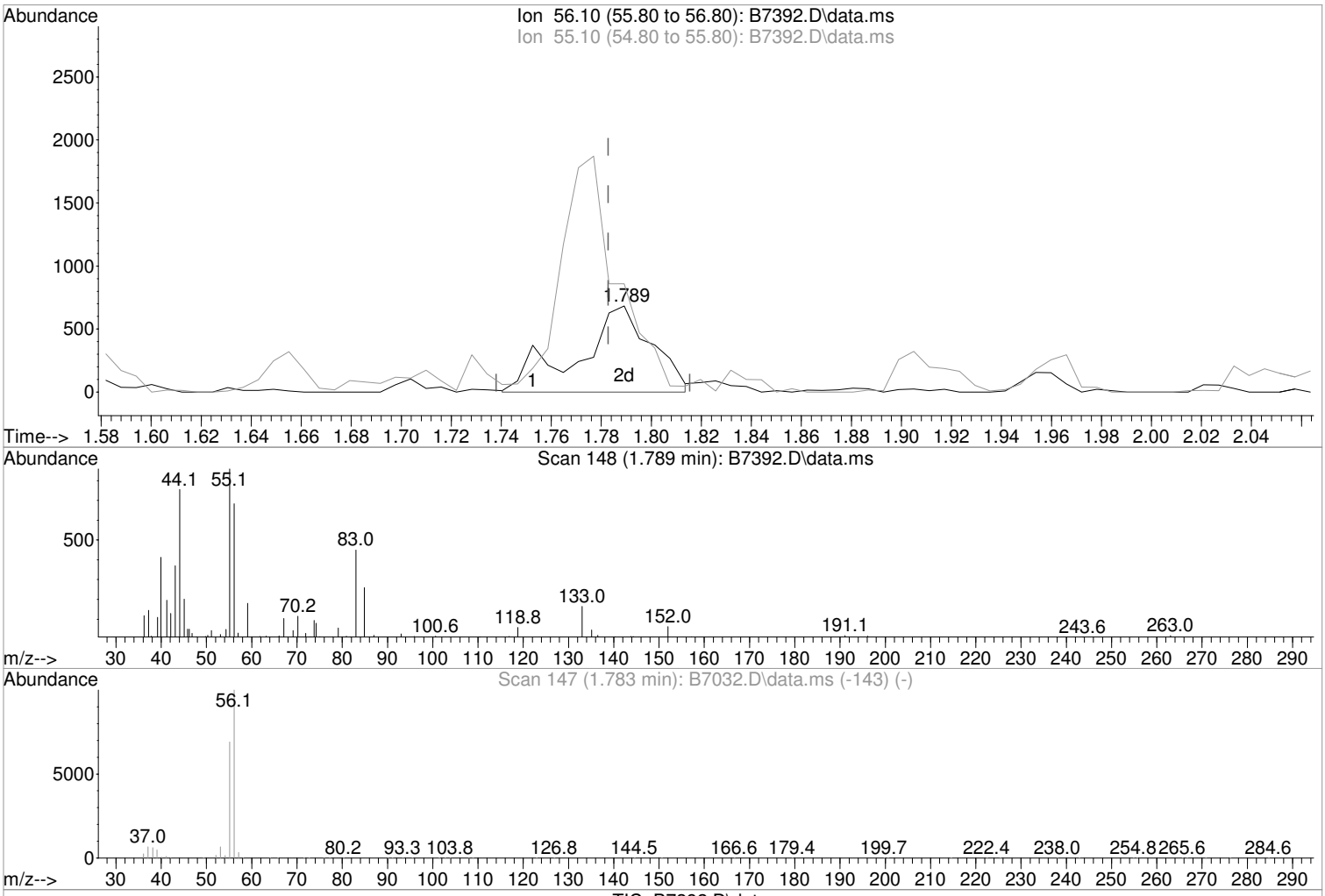
1st FJ 08/09/16
2nd 08/09/16

1st FN 08/09/16
2nd KR 08/09/16

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\080616\
Data File : B7392.D
Acq On : 7 Aug 2016 1:23 am
Operator : F.Naegler
Sample : R1607963-017DMS|4.95 Inst : MSVOA14
Misc : ALS 15946 T4
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Aug 08 08:47:29 2016
Quant Method : I:\ACQUDATA\MSVOA14\Methods\S080316.M
Quant Title : MS#14 - 8260 SOILS 10ml PURGE
QLast Update : Wed Aug 03 16:40:37 2016
Response via : Initial Calibration



TIC: B7392.D\data.ms

(12) Acrolein

1.789min (+0.006) 2.12 ug/L m

response 1386

Ion	Exp%	Act%
56.10	100	100
55.10	68.80	125.58#
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

Peak not found.

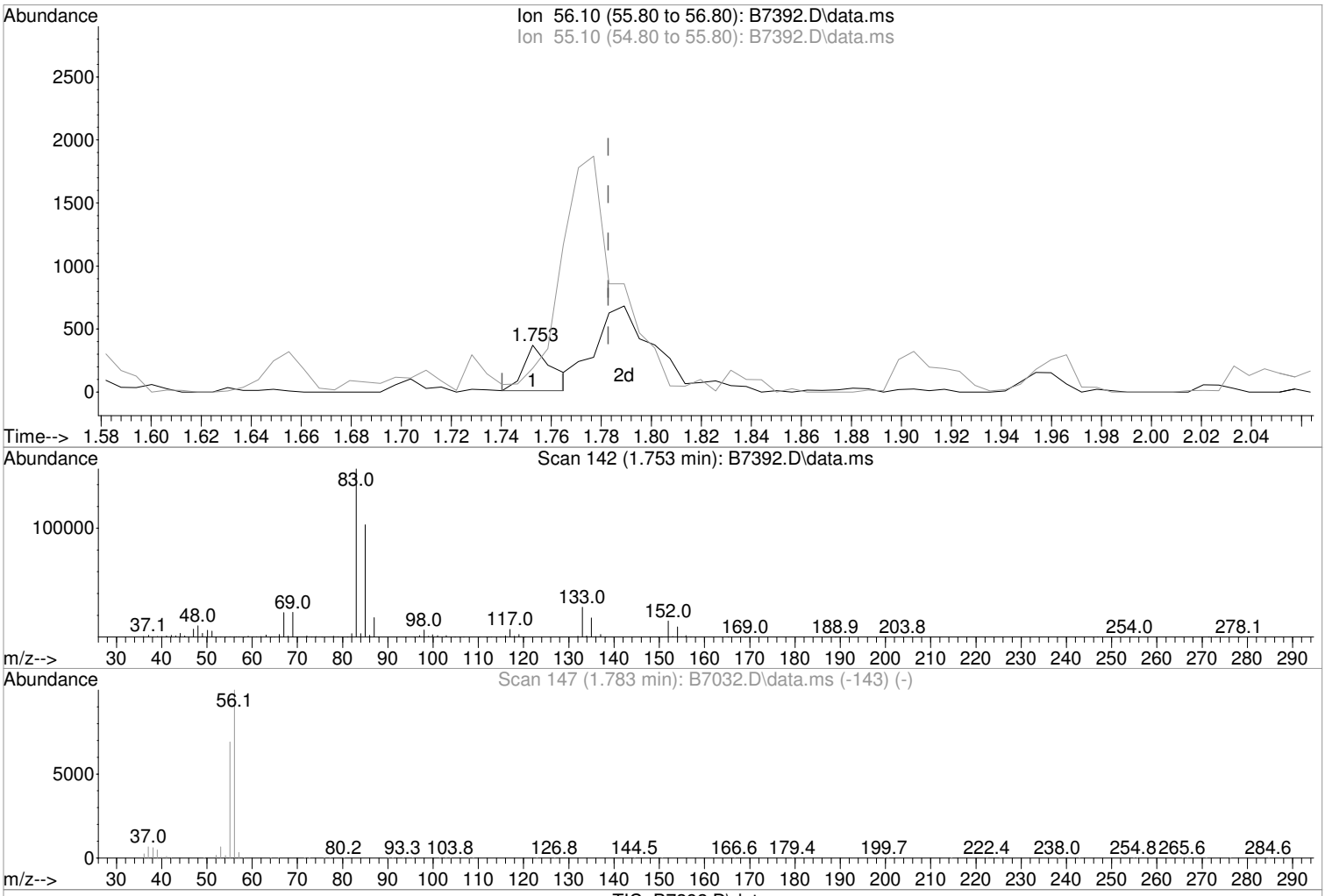
08/09/16

1st FN 08/09/16
2nd KR 08/09/16

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\080616\
Data File : B7392.D
Acq On : 7 Aug 2016 1:23 am
Operator : F.Naegler
Sample : R1607963-017DMS|4.95 Inst : MSVOA14
Misc : ALS 15946 T4
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Aug 08 08:47:29 2016
Quant Method : I:\ACQUDATA\MSVOA14\Methods\S080316.M
Quant Title : MS#14 - 8260 SOILS 10ml PURGE
QLast Update : Wed Aug 03 16:40:37 2016
Response via : Initial Calibration



TIC: B7392.D\data.ms

(12) Acrolein

1.753min (-0.030) 0.44 ug/L

response 286

Ion	Exp%	Act%
56.10	100	100
55.10	68.80	51.21
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

Before

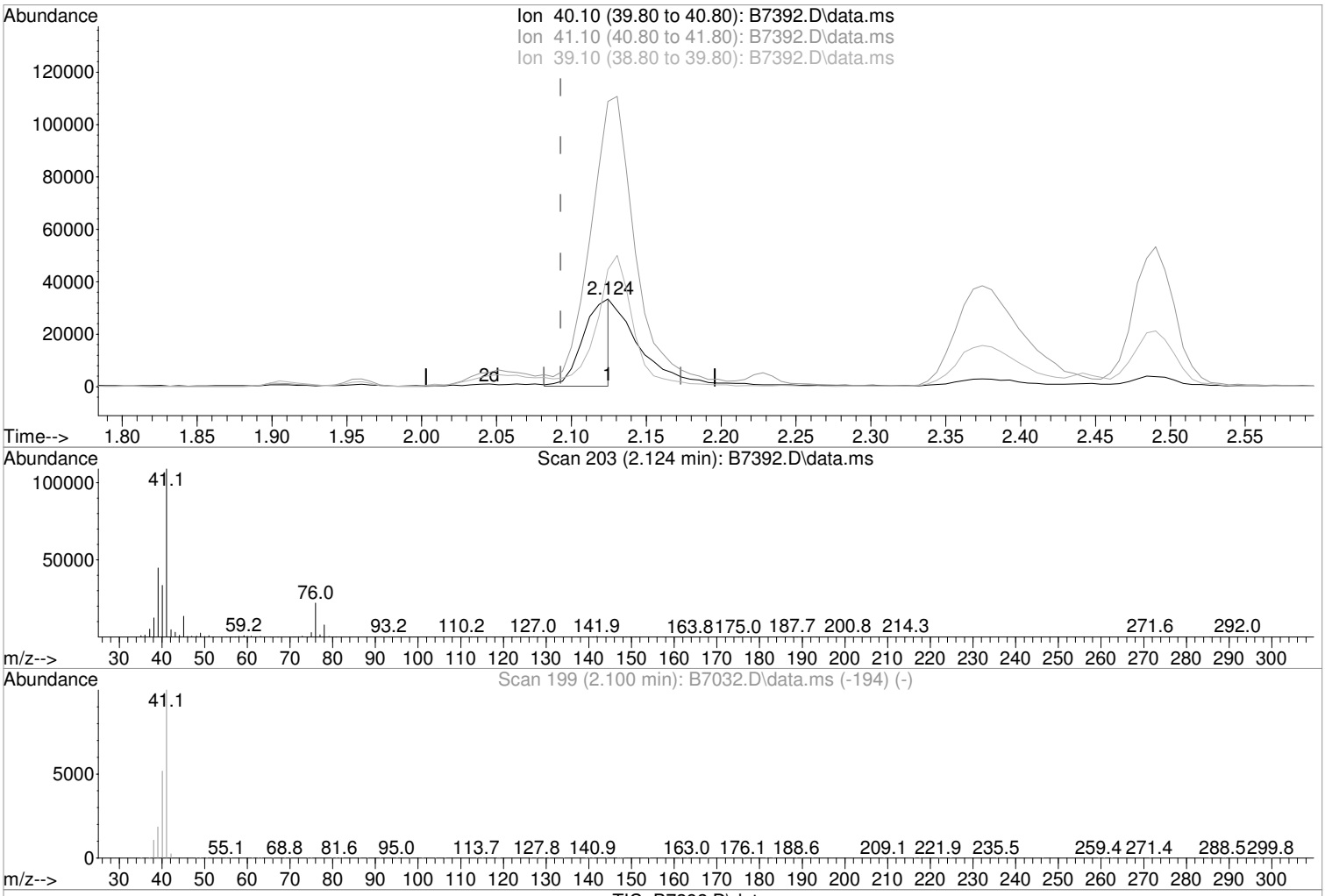
08/09/16

1st FN 08/09/16
2nd WR 08/09/16

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\080616\
Data File : B7392.D
Acq On : 7 Aug 2016 1:23 am
Operator : F.Naegler
Sample : R1607963-017DMS|4.95 Inst : MSVOA14
Misc : ALS 15946 T4
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Aug 08 08:47:29 2016
Quant Method : I:\ACQUDATA\MSVOA14\Methods\S080316.M
Quant Title : MS#14 - 8260 SOILS 10ml PURGE
QLast Update : Wed Aug 03 16:40:37 2016
Response via : Initial Calibration



TIC: B7392.D\data.ms

(19) Acetonitrile

2.124min (+0.031) 188.05 ug/L m

response 42769

Ion	Exp%	Act%
40.10	100	100
41.10	534.60	325.31#
39.10	371.40	133.60#
0.00	0.00	0.00

Manual Integration:

After

Poor integration.

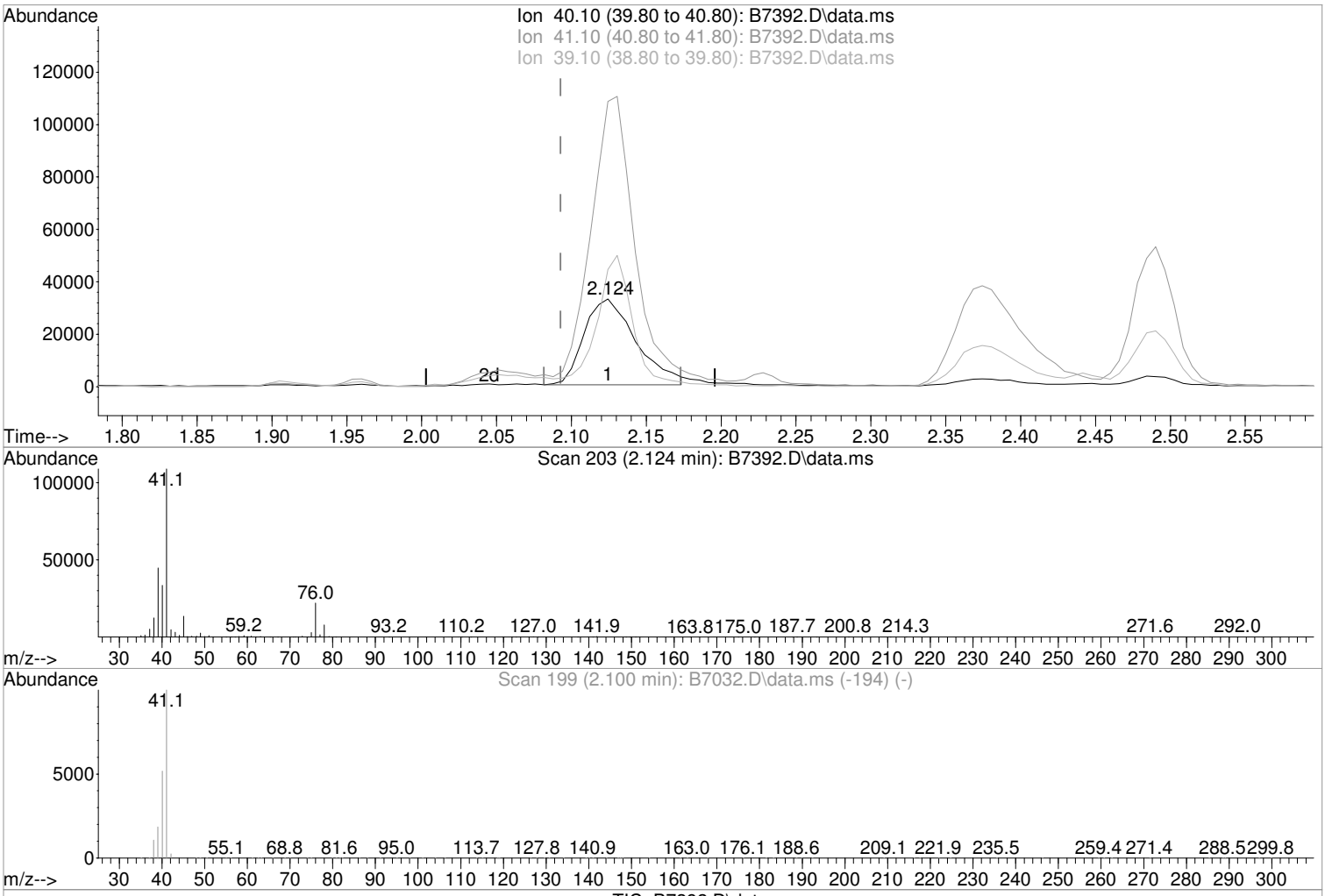
08/09/16

1st FN 08/09/16
2nd KR 08/09/16

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\080616\
Data File : B7392.D
Acq On : 7 Aug 2016 1:23 am
Operator : F.Naegler
Sample : R1607963-017DMS|4.95 Inst : MSVOA14
Misc : ALS 15946 T4
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Aug 08 08:47:29 2016
Quant Method : I:\ACQUDATA\MSVOA14\Methods\S080316.M
Quant Title : MS#14 - 8260 SOILS 10ml PURGE
QLast Update : Wed Aug 03 16:40:37 2016
Response via : Initial Calibration



TIC: B7392.D\data.ms

(19) Acetonitrile

2.124min (+0.031) 346.64 ug/L

response 78837

Ion	Exp%	Act%
40.10	100	100
41.10	534.60	325.31#
39.10	371.40	133.60#
0.00	0.00	0.00

Manual Integration:

Before

08/09/16

1st FN 08/09/16
2nd WR 08/09/16

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA14\Data\080616\
Data File : B7392.D
Acq On : 7 Aug 2016 1:23 am
Operator : F.Naegler
Sample : R1607963-017DMS|4.95 Inst : MSVOA14
Misc : ALS 15946 T4
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Aug 09 14:30:04 2016
Quant Method : I:\ACQUDATA\MSVOA14\Methods\S080316.M
Quant Title : MS#14 - 8260 SOILS 10ml PURGE
QLast Update : Wed Aug 03 16:40:37 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.484	168	216576	50.00	ug/L	0.00
42) 1,4-Difluorobenzene	5.880	114	397845	50.00	ug/L	0.00
70) d5-Chlorobenzene	10.611	117	454559	50.00	ug/L	0.00
87) 1,4-Dichlorobenzene-d4	13.226	152	241646	50.00	ug/L	0.00
System Monitoring Compounds						
44) SURR4,Dibrflmethane	4.319	113	80268	33.78	ug/L	0.00
Spiked Amount 50.000	Range 63 - 138		Recovery = 67.56%			
47) SURR1,1,2-dichloroetha...	4.892	65	149344	55.74	ug/L	0.00
Spiked Amount 50.000	Range 67 - 128		Recovery = 111.48%			
64) SURR3,Toluene-d8	8.684	98	588998	60.54	ug/L	0.00
Spiked Amount 50.000	Range 66 - 138		Recovery = 121.08%			
69) SURR2,BFB	11.994	95	220909	61.79	ug/L	0.00
Spiked Amount 50.000	Range 51 - 136		Recovery = 123.58%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	0.930	85	176488	53.37	ug/L	99
3) Chloromethane	1.033	50	171036	42.37	ug/L	99
4) Vinyl Chloride	1.094	62	185200	48.41	ug/L	100
5) Bromomethane	1.289	94	103512	48.45	ug/L	100
6) Chloroethane	1.350	64	95315	45.70	ug/L	100
7) Freon 21	1.472	67	241827	47.09	ug/L	99
8) Trichlorofluoromethane	1.509	101	181192	54.09	ug/L	100
9) Diethyl Ether	1.704	59	152336	56.85	ug/L	95
10) Freon 123a	1.710	67	156601	44.10	ug/L	95
11) Freon 123	1.753	83	197343	48.24	ug/L	99
12) Acrolein	1.789	56	1386m	2.12	ug/L	
13) 1,1-Diclethene	1.856	96	193350	77.74	ug/L	89
14) Freon 113	1.862	101	125251	49.50	ug/L	94
15) Acetone	1.905	43	86434	74.03	ug/L	90
16) 2-Propanol	2.057	45	325780	1257.73	ug/L	98
17) Iodomethane	1.960	142	74710	51.52	ug/L	92
18) Carbon Disulfide	2.009	76	336778	47.18	ug/L	98
19) Acetonitrile	2.124	40	42769m	188.05	ug/L	
20) Allyl Chloride	2.131	76	38154	24.44	ug/L #	71
21) Methyl Acetate	2.057	43	57630	23.55	ug/L #	53
22) Methylene Chloride	2.228	84	176261	57.02	ug/L	98
23) TBA	2.374	59	552283	1372.72	ug/L	92
24) Acrylonitrile	2.441	53	354311	263.44	ug/L	96
25) Methyl-t-Butyl Ether	2.490	73	486448	59.67	ug/L	98
26) trans-1,2-Dichloroethene	2.472	96	156008	53.77	ug/L	99
27) 1,1-Diclethane	2.886	63	267748	54.36	ug/L	98
28) Vinyl Acetate	2.996	86	1027	1.65	ug/L #	1
29) DIPE	3.008	45	450340	48.20	ug/L	92
30) 2-Chloro-1,3-Butadiene	2.990	53	219714	53.12	ug/L	95
31) ETBE	3.447	59	424971	52.24	ug/L	98
32) 2,2-Dichloropropane	3.581	77	138194	45.73	ug/L	95
33) cis-1,2-Dichloroethene	3.588	96	184346	58.43	ug/L	96
34) 2-Butanone	3.636	43	96887	55.01	ug/L	94
35) Propionitrile	3.703	54	159833	308.98	ug/L	100
36) Bromochloromethane	3.917	130	106284	60.42	ug/L	99
37) Methacrylonitrile	3.923	67	87671	63.75	ug/L #	81
38) Tetrahydrofuran	4.002	42	60978	59.60	ug/L	92
39) Chloroform	4.069	83	267269	56.08	ug/L	97
40) 1,1,1-Trichloroethane	4.325	97	187286	56.15	ug/L	99

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA14\Data\080616\
Data File : B7392.D
Acq On : 7 Aug 2016 1:23 am
Operator : F.Naegler
Sample : R1607963-017DMS|4.95 Inst : MSVOA14
Misc : ALS 15946 T4
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Aug 09 14:30:04 2016
Quant Method : I:\ACQUDATA\MSVOA14\Methods\S080316.M
Quant Title : MS#14 - 8260 SOILS 10ml PURGE
QLast Update : Wed Aug 03 16:40:37 2016
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41)	TAME	5.337	73	433437	59.33	ug/L		95
43)	Cyclohexane	4.411	41	101685	35.76	ug/L		87
45)	Carbontetrachloride	4.612	121	45222	50.13	ug/L		97
46)	1,1-Dichloropropene	4.624	75	195354	46.16	ug/L		97
48)	Benzene	4.996	78	735230	57.97	ug/L		97
49)	1,2-Dichloroethane	5.045	62	201932	54.30	ug/L		95
50)	Iso-Butyl Alcohol	5.106	43	225141	1247.59	ug/L		95
51)	n-Heptane	5.703	43	171952	39.78	ug/L		97
52)	1-Butanol	6.569	56	428670	3612.50	ug/L		96
53)	Trichloroethene	6.361	130	314192	106.38	ug/L		96
54)	Methylcyclohexane	6.739	55	170433	37.96	ug/L		98
55)	1,2-Diclpropane	6.819	63	171809	51.86	ug/L		97
56)	Dibromomethane	7.050	93	106389	55.89	ug/L		98
57)	1,4-Dioxane	7.264	88	82868	1552.12	ug/L		89
59)	Bromodichloromethane	7.465	83	162446	44.24	ug/L		97
61)	2-Chloroethylvinyl Ether	8.135	63	122648	68.70	ug/L		97
62)	cis-1,3-Dichloropropene	8.294	75	195456	42.15	ug/L		97
63)	4-Methyl-2-pentanone	8.617	43	183769	59.07	ug/L		97
65)	Toluene	8.782	91	693240	53.64	ug/L		99
66)	trans-1,3-Dichloropropene	9.178	75	164871	44.40	ug/L		96
67)	Ethyl Methacrylate	9.416	69	4138	1.00	ug/L		84
68)	1,1,2-Trichloroethane	9.410	97	88404	32.59	ug/L	#	81
71)	Tetrachloroethene	9.550	164	118679	41.06	ug/L		96
72)	2-Hexanone	9.824	43	137001	44.72	ug/L		91
73)	1,3-Dichloropropane	9.617	76	277137	42.26	ug/L		93
74)	Dibromochloromethane	9.897	129	133024	40.14	ug/L		97
76)	1,2-Dibromoethane	9.995	107	158266	45.96	ug/L		99
77)	Chlorobenzene	10.641	112	441629	40.82	ug/L		99
78)	1,1,1,2-Tetrachloroethane	10.769	131	133232	40.56	ug/L		97
79)	Ethylbenzene	10.824	106	227918	40.26	ug/L		100
80)	(m+p)Xylene	10.970	106	573572	83.48	ug/L		97
81)	o-Xylene	11.415	106	286467	41.53	ug/L		95
82)	Styrene	11.434	104	493893	42.06	ug/L		99
83)	Bromoform	11.604	173	93161	47.05	ug/L		97
84)	Isopropylbenzene	11.854	105	695097	39.87	ug/L		99
85)	Cyclohexanone	11.909	55	722100	859.30	ug/L		91
86)	trans-1,4-Dichloro-2-B...	12.263	53	17385	14.95	ug/L		87
88)	1,1,2,2-Tetrachloroethane	12.214	83	4454	0.78	ug/L		92
89)	Bromobenzene	12.123	156	186914	39.19	ug/L	#	89
90)	1,2,3-Trichloropropane	12.214	110	65883	41.51	ug/L		93
91)	n-Propylbenzene	12.305	91	813330	34.75	ug/L		99
92)	2-Chlorotoluene	12.360	91	471183	35.48	ug/L		98
93)	4-Chlorotoluene	12.482	91	561312	35.04	ug/L		99
94)	1,3,5-Trimethylbenzene	12.513	105	571816	36.43	ug/L		98
95)	tert-Butylbenzene	12.848	119	490908	36.66	ug/L		99
96)	1,2,4-Trimethylbenzene	12.897	105	588753	35.91	ug/L		99
97)	sec-Butylbenzene	13.080	105	724154	34.14	ug/L		98
98)	p-Isopropyltoluene	13.250	119	583451	34.35	ug/L		96
99)	1,3-Dclbenz	13.153	146	332184	36.43	ug/L		98
100)	1,4-Dclbenz	13.250	146	333274	35.31	ug/L		98
101)	n-Butylbenzene	13.671	91	547665	32.34	ug/L		100
102)	1,2-Dclbenz	13.628	146	978757	110.04	ug/L		99
103)	1,2-Dibromo-3-chloropr...	14.433	157	21983	22.51	ug/L		94
104)	1,2,4-Tcbenzene	15.274	180	223424	33.97	ug/L		97
105)	Hexachlorobt	15.482	225	102660	30.86	ug/L		97
106)	Naphthalen	15.506	128	733480	43.24	ug/L		99

1st FN 08/09/16
2nd WR 08/09/16

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA14\Data\080616\
Data File : B7392.D
Acq On : 7 Aug 2016 1:23 am
Operator : F.Naegler
Sample : R1607963-017DMS|4.95 Inst : MSVOA14
Misc : ALS 15946 T4
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Aug 09 14:30:04 2016
Quant Method : I:\ACQUDATA\MSVOA14\Methods\S080316.M
Quant Title : MS#14 - 8260 SOILS 10ml PURGE
QLast Update : Wed Aug 03 16:40:37 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
107) 1,2,3-Tclbenzene	15.756	180	231969	36.16 ug/L	96

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

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA14\Data\080616\
Data File : B7392.D
Acq On : 7 Aug 2016 1:23 am
Operator : F.Naegler
Sample : R1607963-017DMS|4.95 Inst : MSVOA14
Misc : ALS 15946 T4
ALS Vial : 26 Sample Multiplier: 1

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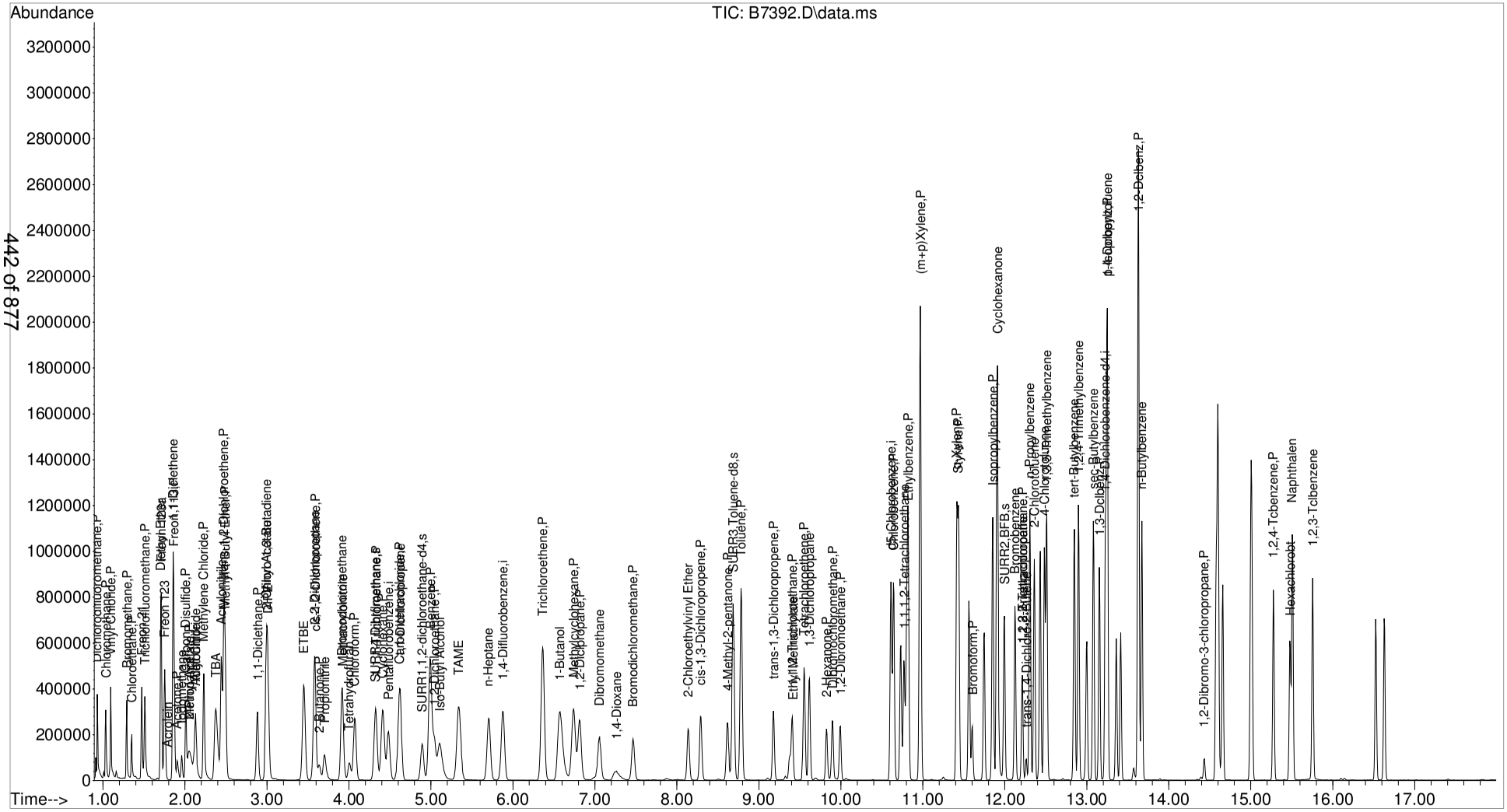
Quant Title : MS#14 - 8260 SOILS 10ml PURGE
QLast Update : Wed Aug 03 16:40:37 2016
Response via : Initial Calibration



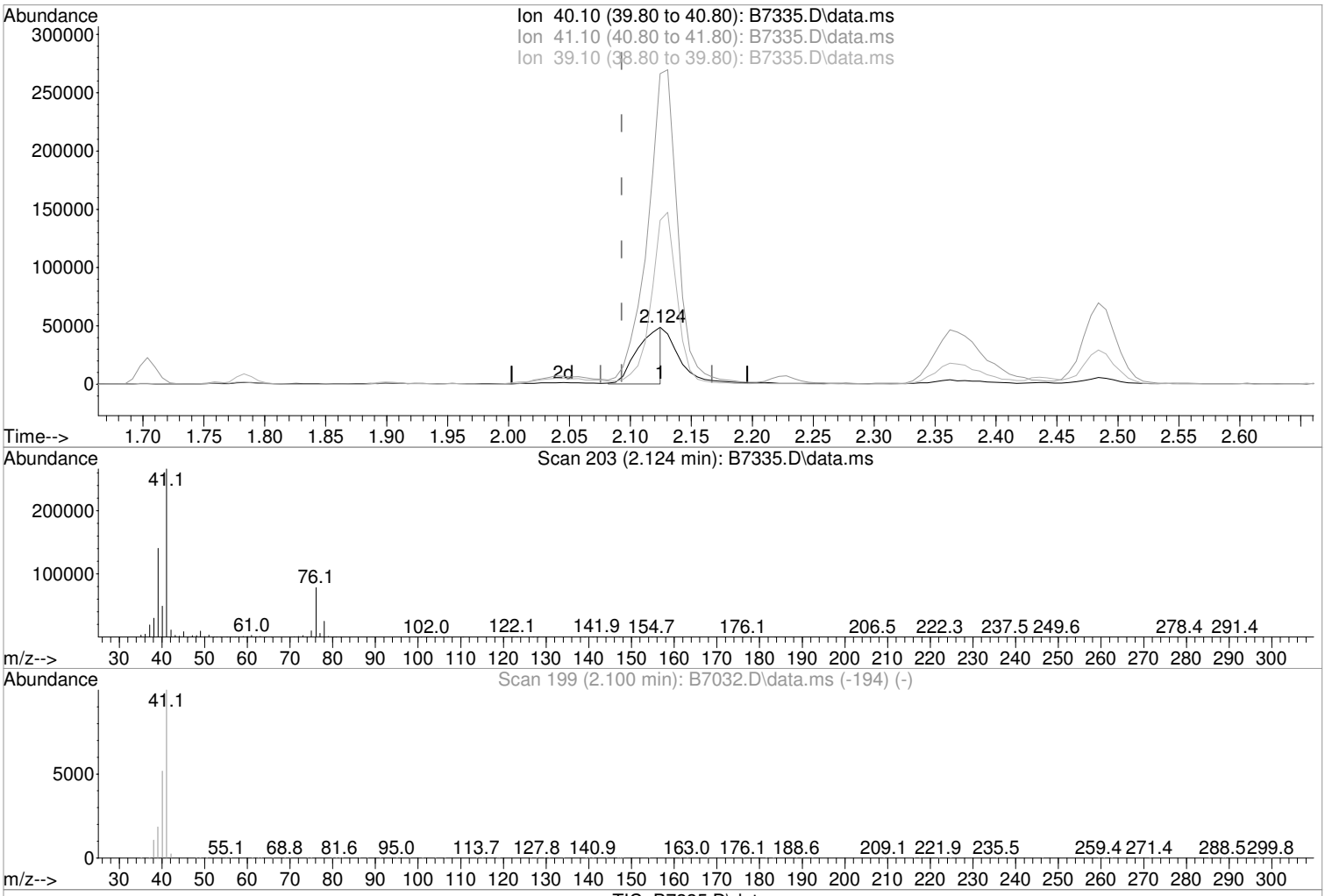
1st FJ 08/09/16
2nd 08/09/16

1st FN 08/05/16
2nd KR 08/05/16

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\080416\
Data File : B7335.D
Acq On : 4 Aug 2016 9:47 am
Operator : F.Naegler
Sample : CCV Inst : MSVOA14
Misc :
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 04 10:47:46 2016
Quant Method : I:\ACQUDATA\MSVOA14\Methods\S080316.M
Quant Title : MS#14 - 8260 SOILS 10ml PURGE
QLast Update : Wed Aug 03 16:40:37 2016
Response via : Initial Calibration



TIC: B7335.D\data.ms

(19) Acetonitrile

2.124min (+0.031) 210.49 ug/L m

response 69954

Ion	Exp%	Act%
40.10	100	100
41.10	534.60	545.07
39.10	371.40	287.53#
0.00	0.00	0.00

Manual Integration:

After

Poor integration.

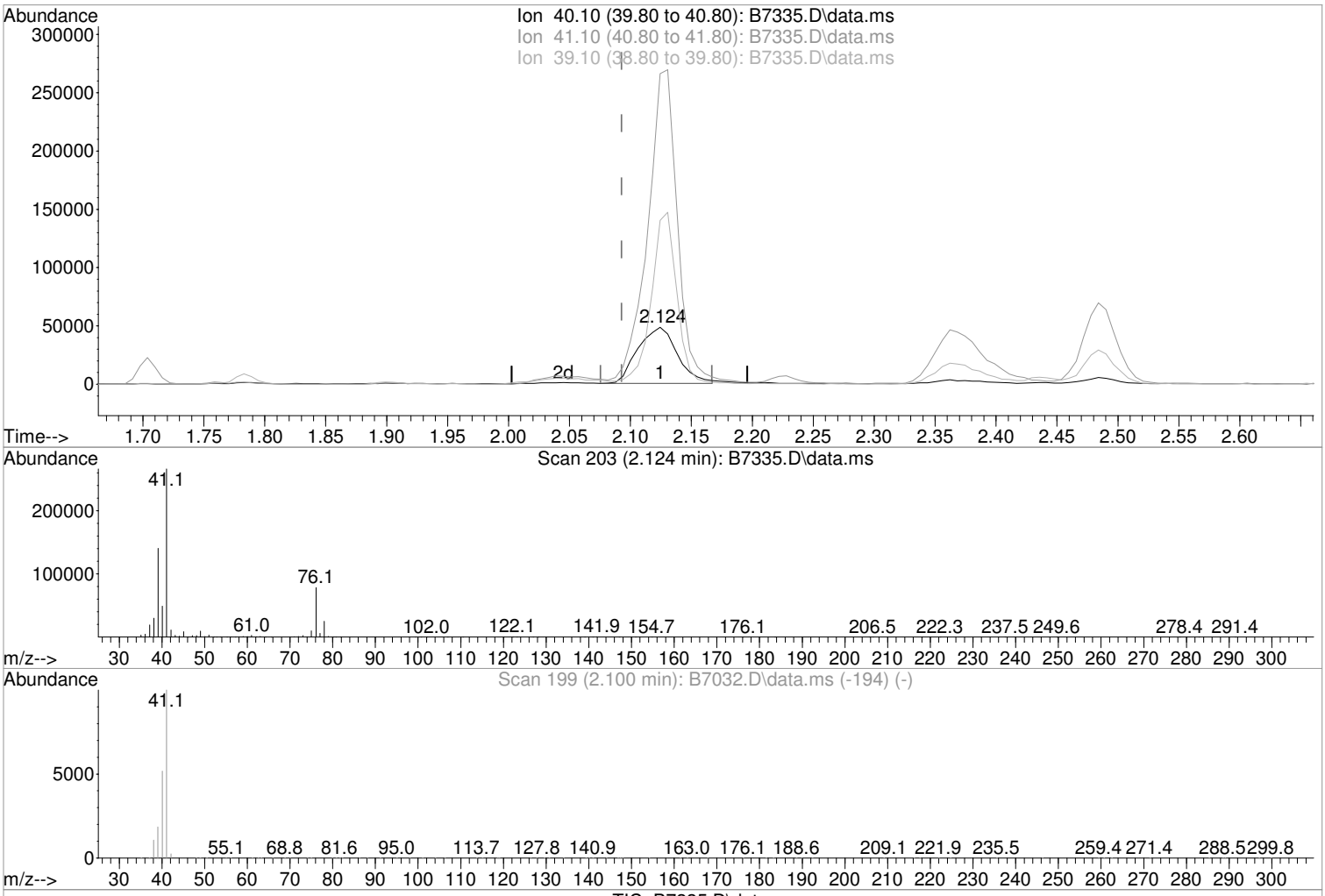
08/04/16

1st FN 08/05/16
2nd KR 08/05/16

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\080416\
Data File : B7335.D
Acq On : 4 Aug 2016 9:47 am
Operator : F.Naegler
Sample : CCV Inst : MSVOA14
Misc :
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 04 10:47:46 2016
Quant Method : I:\ACQUDATA\MSVOA14\Methods\S080316.M
Quant Title : MS#14 - 8260 SOILS 10ml PURGE
QLast Update : Wed Aug 03 16:40:37 2016
Response via : Initial Calibration



TIC: B7335.D\data.ms

(19) Acetonitrile

2.124min (+0.031) 324.90 ug/L

response 107973

Ion	Exp%	Act%
40.10	100	100
41.10	534.60	545.07
39.10	371.40	287.53#
0.00	0.00	0.00

Manual Integration:

Before

08/04/16

1st FN 08/05/16
2nd WR 08/05/16

Evaluate Continuing Calibration Report

Data Path : I:\ACQUDATA\MSVOA14\Data\080416\
Data File : B7335.D
Acq On : 4 Aug 2016 9:47 am
Operator : F.Naegler
Sample : CCV Inst : MSVOA14
Misc :
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 04 10:48:46 2016
Quant Method : I:\ACQUDATA\MSVOA14\Methods\S080316.M
Quant Title : MS#14 - 8260 SOILS 10ml PURGE
QLast Update : Wed Aug 03 16:40:37 2016
Response via : Initial Calibration

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

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	i	Pentafluorobenzene	1.0000	1.0000	0.0	103	0.00
2	P	Dichlorodifluoromethane	0.7634	0.8103	-6.1	106	0.00
3	P	Chloromethane	0.9319	0.9346	-0.3	103	0.00
4	P	Vinyl Chloride	0.8831	0.9176	-3.9	108	0.00
5	P	Bromomethane	0.5251	0.5169	-6.6 ~~-1.6~~	99	0.01
6	P	Chloroethane	0.4815	0.4815	0.0	97	0.00
7		Freon 21	1.1857	1.1456	3.4	95	0.00
8	P	Trichlorofluoromethane	0.7734	0.7948	-2.8	110	0.00
9		Diethyl Ether	0.6186	0.6083	1.7	100	0.00
10		Freon 123a	0.8198	0.8065	1.6	103	0.00
11		Freon 123	0.9444	0.9212	2.5	102	0.00
12		Acrolein	0.1513	0.1408	6.9	91	0.00
13		1,1-Diclethene	0.5742	0.5842	-1.7	107	0.00
14	P	Freon 113	0.5842	0.6010	-2.9	113	0.00
15	P	Acetone	0.2912	0.2622	4.3 ~~10.0~~	86	0.00
16		2-Propanol	0.0598	0.0570	4.7	105	0.03
17		Iodomethane	0.3348	0.2847	15.0	82	0.00
18	P	Carbon Disulfide	1.6481	1.7223	-4.5	103	0.00
19		Acetonitrile	0.0525	0.0442	15.8	90	0.03
20		Allyl Chloride	0.3604	0.3731	-3.5	108	0.00
21	P	Methyl Acetate	0.5649	0.5355	5.2	95	0.00
22	P	Methylene Chloride	0.7136	0.6952	2.6	100	0.00
23		TBA	0.0929	0.0877	5.6	97	0.02
24		Acrylonitrile	0.3105	0.2954	4.9	93	0.00
25	P	Methyl-t-Butyl Ether	1.8820	1.8731	0.5	100	0.00
26	P	trans-1,2-Dichloroethene	0.6698	0.6748	-0.7	106	0.00
27	P	1,1-Diclethane	1.1372	1.1559	-1.6	105	0.00
28		Vinyl Acetate	0.1439	0.1402	2.6	102	0.00
29		DIPE	~~2.1568~~	~~0.0130~~	~~99.4#~~	~~1#~~	~~0.04~~
30		2-Chloro-1,3-Butadiene	0.9550	1.0096	-5.7	103	0.00
31		ETBE	~~1.8782~~	~~0.0000~~	~~100.0#~~	~~0#~~	~~3.45#~~
32		2,2-Dichloropropane	0.6977	0.7157	-2.6	108	0.00
33	P	cis-1,2-Dichloroethene	0.7284	0.7129	2.1	99	0.00
34	P	2-Butanone	0.4066	0.3422	15.8	85	0.00
35		Propionitrile	0.1194	0.1099	8.0	89	0.01
36		Bromochloromethane	0.4061	0.3959	2.5	99	0.00
37		Methacrylonitrile	0.3175	0.3073	3.2	91	0.00
38		Tetrahydrofuran	0.2362	0.2163	8.4	86	0.00
39	P	Chloroform	1.1002	1.0774	2.1	99	0.00
40	P	1,1,1-Trichloroethane	0.7700	0.7852	-2.0	106	0.00
41		TAME	~~1.6867~~	~~0.0000~~	~~100.0#~~	~~0#~~	~~-5.34#~~
42	i	1,4-Difluorobenzene	1.0000	1.0000	0.0	102	0.00
43	P	Cyclohexane	0.3574	0.3404	4.8	100	0.00
44	s	SURR4,Dibrflmethane	0.2986	0.3105	-4.0	103	0.00
45	P	Carbontetrachloride	0.1134	0.1173	-3.4	112	0.00
46		1,1-Dichloropropene	0.5319	0.5333	-0.3	109	0.00
47	s	SURR1,1,2-dichloroethane-d4	0.3367	0.3385	-0.5	99	0.00
48	P	Benzene	1.5939	1.5742	1.2	104	0.00
49	P	1,2-Dichloroethane	0.4673	0.4534	3.0	99	0.00
50		Iso-Butyl Alcohol	0.0227	0.0226	0.4	98	0.01
51		n-Heptane	0.5433	0.5656	-4.1	106	0.00

1st FN 08/05/16
2nd KR 08/05/16

Evaluate Continuing Calibration Report

Data Path : I:\ACQUDATA\MSVOA14\Data\080416\
Data File : B7335.D
Acq On : 4 Aug 2016 9:47 am
Operator : F.Naegler
Sample : CCV Inst : MSVOA14
Misc :
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 04 10:48:46 2016
Quant Method : I:\ACQUDATA\MSVOA14\Methods\S080316.M
Quant Title : MS#14 - 8260 SOILS 10ml PURGE
QLast Update : Wed Aug 03 16:40:37 2016
Response via : Initial Calibration

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

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
52		1-Butanol	~~0.0149~~	~~0.0000~~	~~100.0#~~	~~0#~~	~~-6.55#~~
53	P	Trichloroethene	0.3712	0.3699	0.4	104	0.00
54	P	Methylcyclohexane	0.5643	0.5422	3.9	98	0.00
55	P	1,2-Diclpropane	0.4163	0.4273	-2.6	102	0.00
56		Dibromomethane	0.2392	0.2354	1.6	99	0.00
57		1,4-Dioxane	0.0067	0.0068	-1.5	103	0.05
58		Methyl Methacrylate	0.2996	0.2955	1.4	96	0.00
59	P	Bromodichloromethane	0.4615	0.4612	0.1	100	0.00
60		2-Nitropropane	0.0777	0.0662	14.8	93	0.00
61		2-Chloroethylvinyl Ether	0.2244	0.2258	-0.6	100	0.00
62	P	cis-1,3-Dichloropropene	0.5828	0.5423	6.9	89	0.00
63	P	4-Methyl-2-pentanone	0.3910	0.3281	16.1	79	0.00
64	s	SURR3,Toluene-d8	1.2228	1.1832	3.2	95	0.00
65	P	Toluene	1.6241	1.5007	7.6	93	0.00
66	P	trans-1,3-Dichloropropene	0.4667	0.4448	4.7	91	0.00
67		Ethyl Methacrylate	0.5225	0.4769	8.7	88	0.00
68	P	1,1,2-Trichloroethane	0.3409	0.3155	7.5	90	0.00
69	s	SURR2,BFB	0.4493	0.4639	-3.2	109	0.00
70	i	d5-Chlorobenzene	1.0000	1.0000	0.0	97	0.00
71	P	Tetrachloroethene	0.3179	0.3265	-2.7	104	0.00
72	P	2-Hexanone	0.3370	0.2992	11.2	76	0.00
73		1,3-Dichloropropane	0.7213	0.6818	5.5	87	0.00
74	P	Dibromochloromethane	0.3645	0.3763	-3.2	92	0.00
75		N-Butyl Acetate	0.6822	0.6302	7.6	84	0.00
76	P	1,2-Dibromoethane	0.3788	0.3767	0.6	97	0.00
77	P	Chlorobenzene	1.1901	1.1674	1.9	96	0.00
78		1,1,1,2-Tetrachloroethane	0.3613	0.3609	0.1	95	0.00
79	P	Ethylbenzene	0.6227	0.6410	-2.9	99	0.00
80	P	(m+p)Xylene	0.7558	0.7821	-3.5	99	0.00
81	P	o-Xylene	0.7587	0.7906	-4.2	101	0.00
82	P	Styrene	1.2916	1.3895	-7.6	100	0.00
83	P	Bromoform	0.2178	0.2389	-9.7	102	0.00
84	P	Isopropylbenzene	1.9178	2.0437	-6.6	103	0.00
85		Cyclohexanone	0.0924	0.1085	-17.4	103	0.00
86		trans-1,4-Dichloro-2-Butene	0.1279	0.1347	-5.3	98	0.00
87	i	1,4-Dichlorobenzene-d4	1.0000	1.0000	0.0	99	0.00
88	P	1,1,2,2-Tetrachloroethane	1.1861	1.1961	-0.8	95	0.00
89		Bromobenzene	0.9869	1.0016	-1.5	100	0.00
90		1,2,3-Trichloropropane	0.3284	0.3360	-2.3	94	0.00
91		n-Propylbenzene	4.8422	5.2023	-7.4	104	0.00
92		2-Chlorotoluene	2.7479	2.8027	-2.0	108	0.00
93		4-Chlorotoluene	3.3145	3.4093	-2.9	102	0.00
94		1,3,5-Trimethylbenzene	3.2481	3.4279	-5.5	105	0.00
95		tert-Butylbenzene	2.7710	2.9355	-5.9	106	0.00
96		1,2,4-Trimethylbenzene	3.3920	3.5603	-5.0	102	0.00
97		sec-Butylbenzene	4.3892	4.6498	-5.9	105	0.00
98		p-Isopropyltoluene	3.5147	3.7307	-6.1	102	0.00
99	P	1,3-Dclbenz	1.8870	1.8986	-0.6	100	0.00
100	P	1,4-Dclbenz	1.9527	1.9441	0.4	99	0.00
101		n-Butylbenzene	3.5041	3.8304	-9.3	102	0.00

1st FN 08/05/16
2nd WR 08/05/16

Evaluate Continuing Calibration Report

Data Path : I:\ACQUDATA\MSVOA14\Data\080416\
Data File : B7335.D
Acq On : 4 Aug 2016 9:47 am
Operator : F.Naegler
Sample : CCV Inst : MSVOA14
Misc :
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 04 10:48:46 2016
Quant Method : I:\ACQUDATA\MSVOA14\Methods\S080316.M
Quant Title : MS#14 - 8260 SOILS 10ml PURGE
QLast Update : Wed Aug 03 16:40:37 2016
Response via : Initial Calibration

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

	Compound	AvgRF	CCRF		%Dev	Area%	Dev(min)
102 P	1,2-Dclbenz	1.8404	1.8290		0.6	97	0.00
103 P	1,2-Dibromo-3-chloropropane	0.2117	0.2143	-0.7	~~-1.2~~	94	0.00
104 P	1,2,4-Tcbenzene	1.3608	1.3245		2.7	96	0.00
105	Hexachlorobt	0.6884	0.6932		-0.7	102	0.00
106	Naphthalen	3.5101	3.3895		3.4	89	0.00
107	1,2,3-Tclbenzene	1.3274	1.2768		3.8	93	0.00

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

1st FN 08/05/16
2nd WR 08/05/16

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA14\Data\080416\
Data File : B7335.D
Acq On : 4 Aug 2016 9:47 am
Operator : F.Naegler
Sample : CCV Inst : MSVOA14
Misc :
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 04 10:48:46 2016
Quant Method : I:\ACQUDATA\MSVOA14\Methods\S080316.M
Quant Title : MS#14 - 8260 SOILS 10ml PURGE
QLast Update : Wed Aug 03 16:40:37 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.478	168	316468	50.00	ug/L	0.00
42) 1,4-Difluorobenzene	5.874	114	524199	50.00	ug/L	0.00
70) d5-Chlorobenzene	10.611	117	436347	50.00	ug/L	0.00
87) 1,4-Dichlorobenzene-d4	13.226	152	217334	50.00	ug/L	0.00
System Monitoring Compounds						
44) SURR4,Dibrflmethane	4.319	113	162772	51.99	ug/L	0.00
Spiked Amount 50.000	Range 63 - 138		Recovery = 103.98%			
47) SURR1,1,2-dichloroetha...	4.886	65	177442	50.26	ug/L	0.00
Spiked Amount 50.000	Range 67 - 128		Recovery = 100.52%			
64) SURR3,Toluene-d8	8.684	98	620240	48.38	ug/L	0.00
Spiked Amount 50.000	Range 66 - 138		Recovery = 96.76%			
69) SURR2,BFB	11.988	95	243154	51.61	ug/L	0.00
Spiked Amount 50.000	Range 51 - 136		Recovery = 103.22%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	0.929	85	256444	53.07	ug/L	99
3) Chloromethane	1.033	50	295786	50.15	ug/L	98
4) Vinyl Chloride	1.094	62	290391	51.95	ug/L	99
5) Bromomethane	1.289	94	163571	53.32	ug/L	99
6) Chloroethane	1.350	64	152394	50.01	ug/L	99
7) Freon 21	1.472	67	362543	48.31	ug/L	100
8) Trichlorofluoromethane	1.509	101	251521	51.38	ug/L	99
9) Diethyl Ether	1.704	59	192504	49.17	ug/L	92
10) Freon 123a	1.704	67	255231	49.19	ug/L	84
11) Freon 123	1.753	83	291545	48.78	ug/L	98
12) Acrolein	1.783	56	222811	232.73	ug/L	97
13) 1,1-Diclethene	1.856	96	184880	50.87	ug/L	97
14) Freon 113	1.862	101	190198	51.44	ug/L	92
15) Acetone	1.899	43	82978	47.83	ug/L	94
16) 2-Propanol	2.045	45	360463	952.37	ug/L	96
17) Iodomethane	1.960	142	90102	42.52	ug/L	95
18) Carbon Disulfide	2.009	76	545043	52.25	ug/L	99
19) Acetonitrile	2.124	40	69954m	210.49	ug/L	
20) Allyl Chloride	2.131	76	118090	51.77	ug/L #	85
21) Methyl Acetate	2.155	43	169453	47.40	ug/L	97
22) Methylene Chloride	2.228	84	220017	48.71	ug/L	95
23) TBA	2.368	59	555368	944.67	ug/L	89
24) Acrylonitrile	2.441	53	467362	237.81	ug/L	99
25) Methyl-t-Butyl Ether	2.484	73	592783	49.76	ug/L	96
26) trans-1,2-Dichloroethene	2.472	96	213546	50.37	ug/L	98
27) 1,1-Diclethane	2.880	63	365805	50.82	ug/L	98
28) Vinyl Acetate	2.966	86	44361	48.69	ug/L #	70
29) DIPE	2.966	45	4124	0.30	ug/L #	1
30) 2-Chloro-1,3-Butadiene	2.984	53	319504	52.86	ug/L	99
32) 2,2-Dichloropropane	3.575	77	226497	51.29	ug/L	96
33) cis-1,2-Dichloroethene	3.581	96	225613	48.94	ug/L	94
34) 2-Butanone	3.630	43	108288	42.08	ug/L	100
35) Propionitrile	3.697	54	173898	230.06	ug/L	99
36) Bromochloromethane	3.911	130	125289	48.74	ug/L #	86
37) Methacrylonitrile	3.917	67	97258	48.40	ug/L	91
38) Tetrahydrofuran	3.996	42	68447	45.78	ug/L	86
39) Chloroform	4.069	83	340956	48.96	ug/L	96
40) 1,1,1-Trichloroethane	4.325	97	248494	50.99	ug/L	99
43) Cyclohexane	4.411	41	178445	47.63	ug/L	83

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA14\Data\080416\
Data File : B7335.D
Acq On : 4 Aug 2016 9:47 am
Operator : F.Naegler
Sample : CCV Inst : MSVOA14
Misc :
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 04 10:48:46 2016
Quant Method : I:\ACQUDATA\MSVOA14\Methods\S080316.M
Quant Title : MS#14 - 8260 SOILS 10ml PURGE
QLast Update : Wed Aug 03 16:40:37 2016
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
45)	Carbontetrachloride	4.606	121	61466	51.72 ug/L	97
46)	1,1-Dichloropropene	4.618	75	279543	50.13 ug/L	98
48)	Benzene	4.990	78	825193	49.38 ug/L	99
49)	1,2-Dichloroethane	5.032	62	237656	48.50 ug/L	95
50)	Iso-Butyl Alcohol	5.093	43	237383	998.36 ug/L	90
51)	n-Heptane	5.703	43	296491	52.05 ug/L	99
53)	Trichloroethene	6.355	130	193917	49.83 ug/L	97
54)	Methylcyclohexane	6.733	55	284238	48.04 ug/L	94
55)	1,2-Diclpropane	6.806	63	223966	51.31 ug/L	95
56)	Dibromomethane	7.044	93	123394	49.19 ug/L	92
57)	1,4-Dioxane	7.245	88	71117	1010.95 ug/L	94
58)	Methyl Methacrylate	7.300	69	154906	49.31 ug/L	90
59)	Bromodichloromethane	7.459	83	241738	49.97 ug/L	99
60)	2-Nitropropane	7.904	41	69377	85.18 ug/L	96
61)	2-Chloroethylvinyl Ether	8.135	63	118350	50.32 ug/L	96
62)	cis-1,3-Dichloropropene	8.288	75	284287	46.52 ug/L	98
63)	4-Methyl-2-pentanone	8.617	43	171977	41.96 ug/L	97
65)	Toluene	8.782	91	786663	46.20 ug/L	99
66)	trans-1,3-Dichloropropene	9.178	75	233188	47.66 ug/L	98
67)	Ethyl Methacrylate	9.410	69	249974	45.64 ug/L	93
68)	1,1,2-Trichloroethane	9.403	97	165395	46.28 ug/L	91
71)	Tetrachloroethene	9.550	164	142469	51.35 ug/L	96
72)	2-Hexanone	9.824	43	130549	44.39 ug/L	89
73)	1,3-Dichloropropane	9.611	76	297509	47.26 ug/L	95
74)	Dibromochloromethane	9.897	129	164197	51.61 ug/L	97
75)	N-Butyl Acetate	10.056	43	274985	46.19 ug/L	98
76)	1,2-Dibromoethane	9.989	107	164358	49.72 ug/L	98
77)	Chlorobenzene	10.641	112	509396	49.05 ug/L	100
78)	1,1,1,2-Tetrachloroethane	10.769	131	157474	49.94 ug/L	99
79)	Ethylbenzene	10.818	106	279698	51.47 ug/L	97
80)	(m+p)Xylene	10.970	106	682525	103.48 ug/L	100
81)	o-Xylene	11.415	106	344960	52.10 ug/L	98
82)	Styrene	11.434	104	606307	53.79 ug/L	99
83)	Bromoform	11.604	173	104226	54.83 ug/L	100
84)	Isopropylbenzene	11.854	105	891776	53.28 ug/L	98
85)	Cyclohexanone	11.909	55	947187	1174.20 ug/L	90
86)	trans-1,4-Dichloro-2-B...	12.263	53	58757	52.64 ug/L	90
88)	1,1,2,2-Tetrachloroethane	12.196	83	259959	50.42 ug/L	98
89)	Bromobenzene	12.122	156	217683	50.75 ug/L #	86
90)	1,2,3-Trichloropropane	12.214	110	73022	51.15 ug/L #	86
91)	n-Propylbenzene	12.305	91	1130635	53.72 ug/L	98
92)	2-Chlorotoluene	12.360	91	609120	51.00 ug/L	98
93)	4-Chlorotoluene	12.482	91	740965	51.43 ug/L	98
94)	1,3,5-Trimethylbenzene	12.513	105	744993	52.77 ug/L	99
95)	tert-Butylbenzene	12.848	119	637979	52.97 ug/L	99
96)	1,2,4-Trimethylbenzene	12.897	105	773765	52.48 ug/L	97
97)	sec-Butylbenzene	13.080	105	1010567	52.97 ug/L	98
98)	p-Isopropyltoluene	13.250	119	810803	53.07 ug/L	98
99)	1,3-Dclbenz	13.153	146	412634	50.31 ug/L	99
100)	1,4-Dclbenz	13.250	146	422519	49.78 ug/L	97
101)	n-Butylbenzene	13.671	91	832485	54.66 ug/L	99
102)	1,2-Dclbenz	13.628	146	397508	49.69 ug/L	98
103)	1,2-Dibromo-3-chloropr...	14.433	157	46579	50.35 ug/L	97
104)	1,2,4-Tcbenzene	15.274	180	287853	48.67 ug/L	97
105)	Hexachlorobt	15.482	225	150649	50.34 ug/L	96
106)	Naphthalen	15.506	128	736660	48.28 ug/L	99

1st FN 08/05/16
2nd WR 08/05/16

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA14\Data\080416\
Data File : B7335.D
Acq On : 4 Aug 2016 9:47 am
Operator : F.Naegler
Sample : CCV Inst : MSVOA14
Misc :
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 04 10:48:46 2016
Quant Method : I:\ACQUDATA\MSVOA14\Methods\S080316.M
Quant Title : MS#14 - 8260 SOILS 10ml PURGE
QLast Update : Wed Aug 03 16:40:37 2016
Response via : Initial Calibration

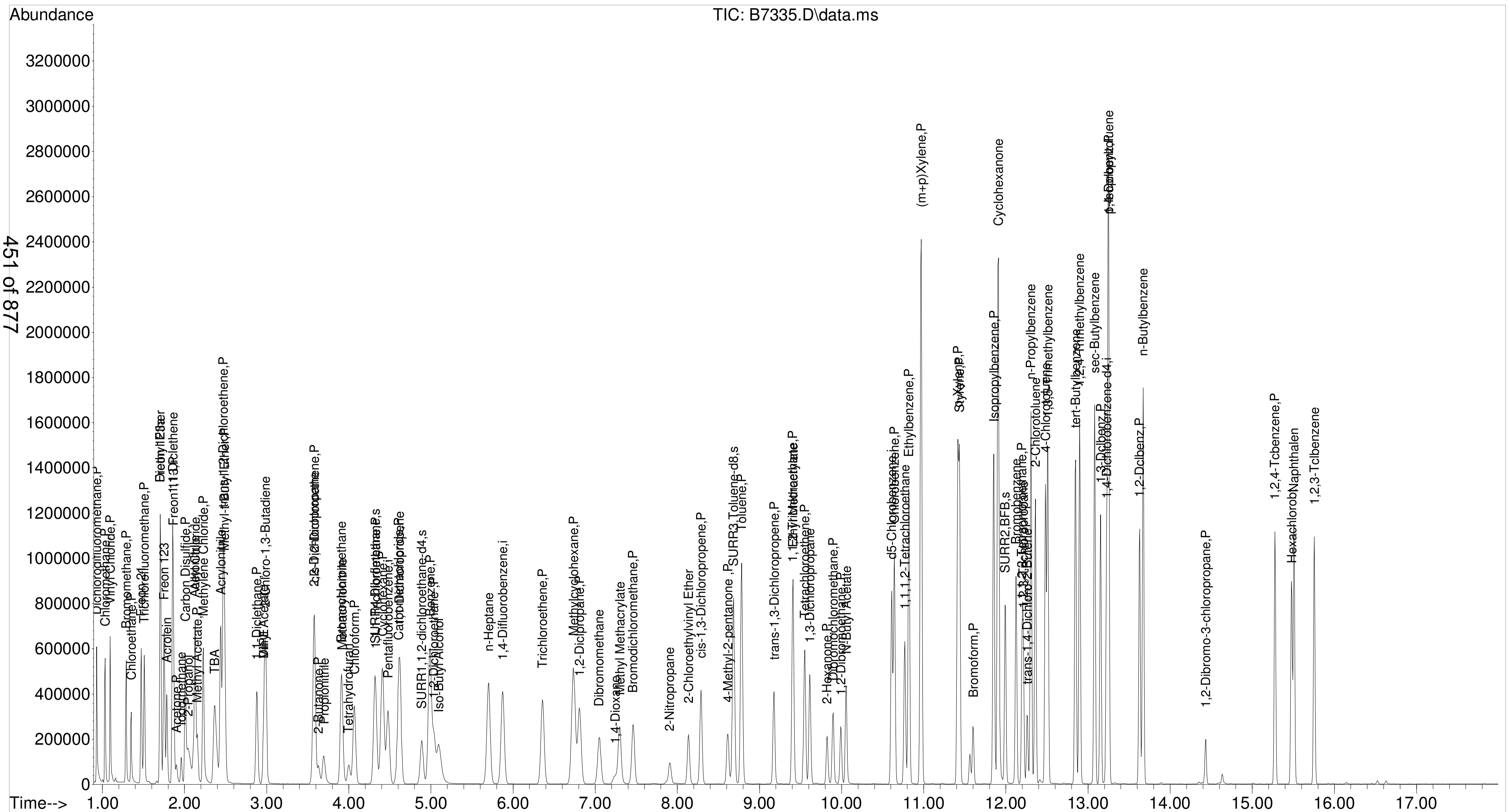
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
107) 1,2,3-Tclbenzene	15.756	180	277482	48.09	ug/L	99

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

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA14\Data\080416\
Data File : B7335.D
Acq On : 4 Aug 2016 9:47 am
Operator : F.Naegler
Sample : CCV Inst : MSVOA14
Misc :
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 04 10:48:46 2016
Quant Method : I:\ACQUDATA\MSVOA14\Methods\S080316.M
Quant Title : MS#14 - 8260 SOILS 10ml PURGE
QLast Update : Wed Aug 03 16:40:37 2016
Response via : Initial Calibration



S080316.M Thu Aug 04 10:49:24 2016 MSVO10 Page: 4

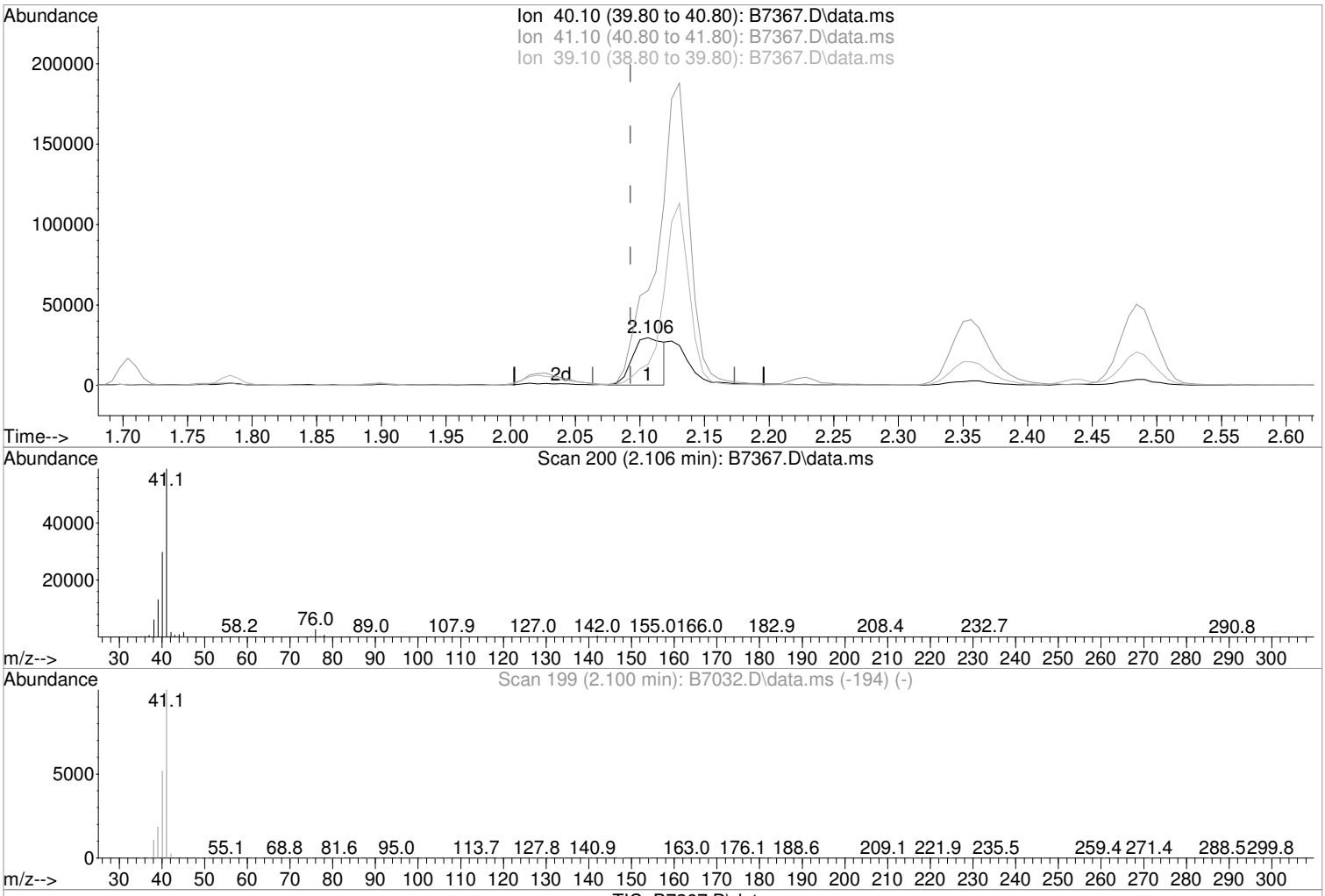
1st FN 08/05/16
2nd VR 08/05/16

1st FN 08/09/16
2nd KR 08/09/16

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\080616\
Data File : B7367.D
Acq On : 6 Aug 2016 3:07 pm
Operator : F.Naegler
Sample : CCV Inst : MSVOA14
Misc :
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 06 16:11:59 2016
Quant Method : I:\ACQUDATA\MSVOA14\Methods\S080316.M
Quant Title : MS#14 - 8260 SOILS 10ml PURGE
QLast Update : Wed Aug 03 16:40:37 2016
Response via : Initial Calibration



TIC: B7367.D\data.ms

(19) Acetonitrile

2.106min (+0.013) 177.89 ug/L m

response 49598

Ion	Exp%	Act%
40.10	100	100
41.10	534.60	198.09#
39.10	371.40	43.94#
0.00	0.00	0.00

Manual Integration:

After

Poor integration.

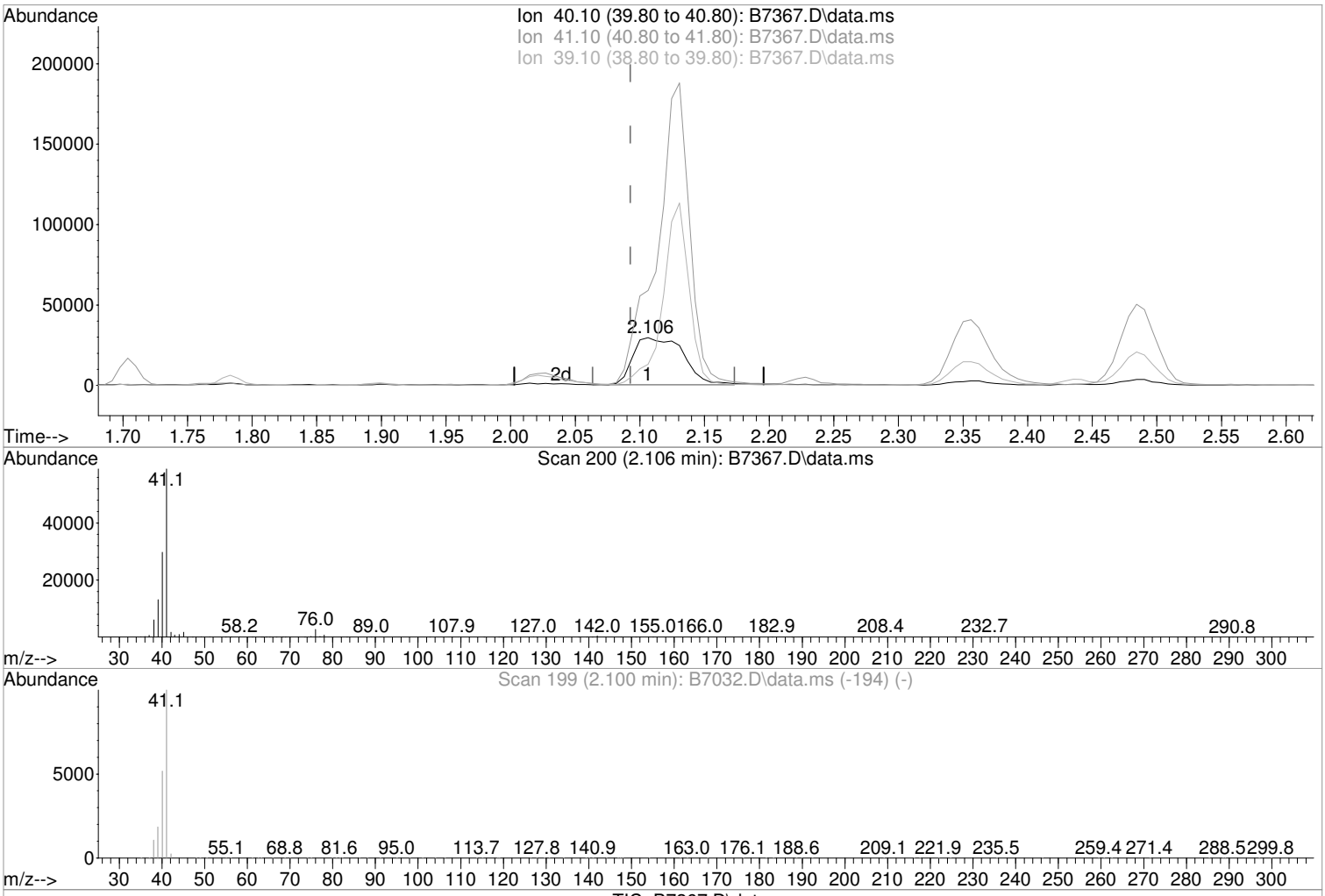
08/06/16

1st FN 08/09/16
2nd KR 08/09/16

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\080616\
Data File : B7367.D
Acq On : 6 Aug 2016 3:07 pm
Operator : F.Naegler
Sample : CCV Inst : MSVOA14
Misc :
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 06 16:11:59 2016
Quant Method : I:\ACQUDATA\MSVOA14\Methods\S080316.M
Quant Title : MS#14 - 8260 SOILS 10ml PURGE
QLast Update : Wed Aug 03 16:40:37 2016
Response via : Initial Calibration



TIC: B7367.D\data.ms

(19) Acetonitrile

2.106min (+0.013) 285.89 ug/L

response 79710

Ion	Exp%	Act%
40.10	100	100
41.10	534.60	198.09#
39.10	371.40	43.94#
0.00	0.00	0.00

Manual Integration:

Before

08/06/16

1st FN 08/09/16
2nd WR 08/09/16

Evaluate Continuing Calibration Report

Data Path : I:\ACQUDATA\MSVOA14\Data\080616\
Data File : B7367.D
Acq On : 6 Aug 2016 3:07 pm
Operator : F.Naegler
Sample : CCV Inst : MSVOA14
Misc :
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 06 16:12:33 2016
Quant Method : I:\ACQUDATA\MSVOA14\Methods\S080316.M
Quant Title : MS#14 - 8260 SOILS 10ml PURGE
QLast Update : Wed Aug 03 16:40:37 2016
Response via : Initial Calibration

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

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	
1	i	Pentafluorobenzene	1.0000	1.0000	0.0	86	0.00	
2	P	Dichlorodifluoromethane	0.7634	0.8039	-5.3	89	0.00	
3	P	Chloromethane	0.9319	0.8200	12.0	76	0.00	
4	P	Vinyl Chloride	0.8831	0.8153	7.7	80	0.00	
5	P	Bromomethane	0.5251	0.4740	4.1 ~~9.7~~	76	0.00	
6	P	Chloroethane	0.4815	0.4616	4.1	78	0.00	
7		Freon 21	1.1857	1.1456	3.4	79	0.00	
8	P	Trichlorofluoromethane	0.7734	0.8182	-5.8	95	0.00	
9		Diethyl Ether	0.6186	0.5503	11.0	76	0.00	
10		Freon 123a	0.8198	0.7931	3.3	85	0.00	
11		Freon 123	0.9444	0.9282	1.7	87	0.00	
12		Acrolein	0.1513	0.1197	20.9#	65	0.00	(1)
13		1,1-Diclethene	0.5742	0.5818	-1.3	90	0.00	
14	P	Freon 113	0.5842	0.6050	-3.6	95	0.00	
15	P	Acetone	0.2912	0.2295	16.9 ~~21.2#~~	63	0.00	
16		2-Propanol	0.0598	0.0456	23.7#	71	0.00	(2)
17		Iodomethane	0.3348	0.3570	-6.6	86	0.00	
18	P	Carbon Disulfide	1.6481	1.6219	1.6	81	0.00	
19		Acetonitrile	0.0525	0.0374	28.8#	64	0.01	(3)
20		Allyl Chloride	0.3604	0.3652	-1.3	89	0.00	
21	P	Methyl Acetate	0.5649	0.4530	19.8	68	0.00	
22	P	Methylene Chloride	0.7136	0.6817	4.5	82	0.00	
23		TBA	0.0929	0.0733	21.1#	68	0.00	NT
24		Acrylonitrile	0.3105	0.2530	18.5	67	0.00	
25	P	Methyl-t-Butyl Ether	1.8820	1.7409	7.5	78	0.00	
26	P	trans-1,2-Dichloroethene	0.6698	0.6622	1.1	88	0.00	
27	P	1,1-Diclethane	1.1372	1.1002	3.3	84	0.00	
28		Vinyl Acetate	0.1439	0.1436	0.2	87	0.00	
29		DIPE	2.1568	2.0620	4.4	81	0.00	
30		2-Chloro-1,3-Butadiene	0.9550	0.9055	5.2	78	0.00	
31		ETBE	1.8782	1.8497	1.5	85	0.00	
32		2,2-Dichloropropane	0.6977	0.7347	-5.3	93	0.00	
33	P	cis-1,2-Dichloroethene	0.7284	0.7350	-0.9	86	0.00	
34	P	2-Butanone	0.4066	0.3065	24.6#	64	0.00	(4)
35		Propionitrile	0.1194	0.0986	17.4	67	0.00	
36		Bromochloromethane	0.4061	0.4057	0.1	85	0.00	
37		Methacrylonitrile	0.3175	0.2860	9.9	71	0.00	
38		Tetrahydrofuran	0.2362	0.1888	20.1#	63	0.00	(5)
39	P	Chloroform	1.1002	1.1046	-0.4	85	0.00	
40	P	1,1,1-Trichloroethane	0.7700	0.8224	-6.8	93	0.00	
41		TAME	1.6867	1.8547	-10.0	93	0.00	
42	i	1,4-Difluorobenzene	1.0000	1.0000	0.0	90	0.00	
43	P	Cyclohexane	0.3574	0.3244	9.2	84	0.00	
44	s	SURR4,Dibrflmethane	0.2986	0.3223	-7.9	95	0.00	
45	P	Carbontetrachloride	0.1134	0.1180	-4.1	100	0.00	
46		1,1-Dichloropropene	0.5319	0.5248	1.3	95	0.00	
47	s	SURR1,1,2-dichloroethane-d4	0.3367	0.3399	-1.0	88	0.00	
48	P	Benzene	1.5939	1.5493	2.8	91	0.00	
49	P	1,2-Dichloroethane	0.4673	0.4319	7.6	83	0.00	
50		Iso-Butyl Alcohol	0.0227	0.0182	19.8	70	0.00	
51		n-Heptane	0.5433	0.5437	-0.1	90	0.00	

Evaluate Continuing Calibration Report

Data Path : I:\ACQUDATA\MSVOA14\Data\080616\
Data File : B7367.D
Acq On : 6 Aug 2016 3:07 pm
Operator : F.Naegler
Sample : CCV Inst : MSVOA14
Misc :
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 06 16:12:33 2016
Quant Method : I:\ACQUDATA\MSVOA14\Methods\S080316.M
Quant Title : MS#14 - 8260 SOILS 10ml PURGE
QLast Update : Wed Aug 03 16:40:37 2016
Response via : Initial Calibration

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

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
52		1-Butanol	0.0149	0.0145	2.7	86	0.00
53	P	Trichloroethene	0.3712	0.3833	-3.3	96	0.00
54	P	Methylcyclohexane	0.5643	0.5789	-2.6	92	0.00
55	P	1,2-Diclpropane	0.4163	0.4218	-1.3	89	0.00
56		Dibromomethane	0.2392	0.2315	3.2	86	0.00
57		1,4-Dioxane	0.0067	0.0067	0.0	89	0.02
58		Methyl Methacrylate	0.2996	0.2910	2.9	83	0.00
59	P	Bromodichloromethane	0.4615	0.4759	-3.1	91	0.00
60		2-Nitropropane	0.0777	0.0639	17.8	79	0.00
61		2-Chloroethylvinyl Ether	0.2244	0.2325	-3.6	91	0.00
62	P	cis-1,3-Dichloropropene	0.5828	0.6113	-4.9	89	0.00
63	P	4-Methyl-2-pentanone	0.3910	0.3788	3.1	80	0.00
64	s	SURR3,Toluene-d8	1.2228	1.4698	-20.2#	104	0.00
65	P	Toluene	1.6241	1.7098	-5.3	93	0.00
66	P	trans-1,3-Dichloropropene	0.4667	0.4919	-5.4	89	0.00
67		Ethyl Methacrylate	0.5225	0.5252	-0.5	85	0.00
68	P	1,1,2-Trichloroethane	0.3409	0.3469	-1.8	88	0.00
69	s	SURR2,BFB	0.4493	0.5204	-15.8	108	0.00
70	i	d5-Chlorobenzene	1.0000	1.0000	0.0	101	0.00
71	P	Tetrachloroethene	0.3179	0.3062	3.7	102	0.00
72	P	2-Hexanone	0.3370	0.2843	15.6	75	0.00
73		1,3-Dichloropropane	0.7213	0.6545	9.3	87	0.00
74	P	Dibromochloromethane	0.3645	0.3412	6.4	86	0.00
75		N-Butyl Acetate	0.6822	0.6095	10.7	84	0.00
76	P	1,2-Dibromoethane	0.3788	0.3516	7.2	94	0.00
77	P	Chlorobenzene	1.1901	1.1074	6.9	95	0.00
78		1,1,1,2-Tetrachloroethane	0.3613	0.3437	4.9	94	0.00
79	P	Ethylbenzene	0.6227	0.6027	3.2	97	0.00
80	P	(m+p)Xylene	0.7558	0.7406	2.0	98	0.00
81	P	o-Xylene	0.7587	0.7146	5.8	95	0.00
82	P	Styrene	1.2916	1.2373	4.2	92	0.00
83	P	Bromoform	0.2178	0.1970	9.6	88	0.00
84	P	Isopropylbenzene	1.9178	1.7634	8.1	93	0.00
85		Cyclohexanone	0.0924	0.0756	18.2	75	0.00
86		trans-1,4-Dichloro-2-Butene	0.1279	0.1091	14.7	83	0.00
87	i	1,4-Dichlorobenzene-d4	1.0000	1.0000	0.0	100	0.00
88	P	1,1,2,2-Tetrachloroethane	1.1861	1.0198	14.0	82	0.00
89		Bromobenzene	0.9869	0.9111	7.7	93	0.00
90		1,2,3-Trichloropropane	0.3284	0.2809	14.5	80	0.00
91		n-Propylbenzene	4.8422	4.6542	3.9	95	0.00
92		2-Chlorotoluene	2.7479	2.5548	7.0	100	0.00
93		4-Chlorotoluene	3.3145	3.1064	6.3	95	0.00
94		1,3,5-Trimethylbenzene	3.2481	3.0948	4.7	96	0.00
95		tert-Butylbenzene	2.7710	2.6668	3.8	98	0.00
96		1,2,4-Trimethylbenzene	3.3920	3.2597	3.9	95	0.00
97		sec-Butylbenzene	4.3892	4.2146	4.0	97	0.00
98		p-Isopropyltoluene	3.5147	3.3679	4.2	94	0.00
99	P	1,3-Dclbenz	1.8870	1.7613	6.7	94	0.00
100	P	1,4-Dclbenz	1.9527	1.7672	9.5	91	0.00
101		n-Butylbenzene	3.5041	3.4193	2.4	93	0.00

1st FN 08/09/16
2nd WR 08/09/16

Evaluate Continuing Calibration Report

Data Path : I:\ACQUDATA\MSVOA14\Data\080616\
Data File : B7367.D
Acq On : 6 Aug 2016 3:07 pm
Operator : F.Naegler
Sample : CCV Inst : MSVOA14
Misc :
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 06 16:12:33 2016
Quant Method : I:\ACQUDATA\MSVOA14\Methods\S080316.M
Quant Title : MS#14 - 8260 SOILS 10ml PURGE
QLast Update : Wed Aug 03 16:40:37 2016
Response via : Initial Calibration

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

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
102 P	1,2-Dclbenz	1.8404	1.6705	9.2	90	0.00
103 P	1,2-Dibromo-3-chloropropane	0.2117	0.1729	17.5 ~~18.3~~	77	0.00
104 P	1,2,4-Tcbenzene	1.3608	1.2113	11.0	89	0.00
105	Hexachlorobt	0.6884	0.6360	7.6	96	0.00
106	Naphthalen	3.5101	3.0520	13.1	81	0.00
107	1,2,3-Tclbenzene	1.3274	1.1595	12.6	86	0.00

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

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA14\Data\080616\
Data File : B7367.D
Acq On : 6 Aug 2016 3:07 pm
Operator : F.Naegler
Sample : CCV Inst : MSVOA14
Misc :
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 06 16:12:33 2016
Quant Method : I:\ACQUDATA\MSVOA14\Methods\S080316.M
Quant Title : MS#14 - 8260 SOILS 10ml PURGE
QLast Update : Wed Aug 03 16:40:37 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.484	168	265501	50.00	ug/L	0.00
42) 1,4-Difluorobenzene	5.874	114	463000	50.00	ug/L	0.00
70) d5-Chlorobenzene	10.611	117	453794	50.00	ug/L	0.00
87) 1,4-Dichlorobenzene-d4	13.226	152	221033	50.00	ug/L	0.00
System Monitoring Compounds						
44) SURR4,Dibrflmethane	4.319	113	149215	53.96	ug/L	0.00
Spiked Amount 50.000	Range 63 - 138		Recovery = 107.92%			
47) SURR1,1,2-dichloroetha...	4.886	65	157374	50.47	ug/L	0.00
Spiked Amount 50.000	Range 67 - 128		Recovery = 100.94%			
64) SURR3,Toluene-d8	8.684	98	680508	60.10	ug/L	0.00
Spiked Amount 50.000	Range 66 - 138		Recovery = 120.20%			
69) SURR2,BFB	11.995	95	240937	57.90	ug/L	0.00
Spiked Amount 50.000	Range 51 - 136		Recovery = 115.80%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	0.930	85	213446	52.65	ug/L	99
3) Chloromethane	1.033	50	217720	44.00	ug/L	99
4) Vinyl Chloride	1.094	62	216467	46.16	ug/L	100
5) Bromomethane	1.283	94	125843	47.97	ug/L	99
6) Chloroethane	1.350	64	122547	47.93	ug/L	99
7) Freon 21	1.472	67	304152	48.31	ug/L	97
8) Trichlorofluoromethane	1.509	101	217222	52.90	ug/L	98
9) Diethyl Ether	1.704	59	146094	44.48	ug/L	96
10) Freon 123a	1.710	67	210582	48.38	ug/L	97
11) Freon 123	1.753	83	246429	49.14	ug/L	99
12) Acrolein	1.783	56	158870	197.79	ug/L	99
13) 1,1-Diclethene	1.856	96	154465	50.66	ug/L	91
14) Freon 113	1.862	101	160635	51.78	ug/L	95
15) Acetone	1.899	43	60920	41.56	ug/L	90
16) 2-Propanol	2.021	45	242005	762.14	ug/L	97
17) Iodomethane	1.960	142	94794	53.32	ug/L	92
18) Carbon Disulfide	2.009	76	430628	49.21	ug/L	100
19) Acetonitrile	2.106	40	49598m	177.89	ug/L	
20) Allyl Chloride	2.131	76	96956	50.66	ug/L #	71
21) Methyl Acetate	2.155	43	120259	40.09	ug/L	100
22) Methylene Chloride	2.228	84	180983	47.76	ug/L	98
23) TBA	2.356	59	389272	789.25	ug/L	91
24) Acrylonitrile	2.435	53	335825	203.68	ug/L	98
25) Methyl-t-Butyl Ether	2.484	73	462217	46.25	ug/L	97
26) trans-1,2-Dichloroethene	2.472	96	175804	49.43	ug/L	98
27) 1,1-Diclethane	2.880	63	292115	48.37	ug/L	98
28) Vinyl Acetate	2.966	86	38126	49.88	ug/L #	94
29) DIPE	3.002	45	547475	47.80	ug/L	91
30) 2-Chloro-1,3-Butadiene	2.990	53	240414	47.41	ug/L	93
31) ETBE	3.447	59	491085	49.24	ug/L	98
32) 2,2-Dichloropropane	3.575	77	195062	52.65	ug/L	96
33) cis-1,2-Dichloroethene	3.582	96	195137	50.45	ug/L	97
34) 2-Butanone	3.630	43	81382	37.69	ug/L	96
35) Propionitrile	3.691	54	130912	206.44	ug/L	98
36) Bromochloromethane	3.911	130	107711	49.95	ug/L	94
37) Methacrylonitrile	3.911	67	75936	45.04	ug/L	89
38) Tetrahydrofuran	3.996	42	50127	39.97	ug/L	94
39) Chloroform	4.069	83	293261	50.20	ug/L	98
40) 1,1,1-Trichloroethane	4.325	97	218357	53.40	ug/L	96

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA14\Data\080616\
Data File : B7367.D
Acq On : 6 Aug 2016 3:07 pm
Operator : F.Naegler
Sample : CCV Inst : MSVOA14
Misc :
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 06 16:12:33 2016
Quant Method : I:\ACQUDATA\MSVOA14\Methods\S080316.M
Quant Title : MS#14 - 8260 SOILS 10ml PURGE
QLast Update : Wed Aug 03 16:40:37 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
41) TAME	5.337	73	492423	54.98 ug/L	97
43) Cyclohexane	4.411	41	150179	45.38 ug/L	83
45) Carbontetrachloride	4.612	121	54635	52.05 ug/L	95
46) 1,1-Dichloropropene	4.624	75	243005	49.33 ug/L	99
48) Benzene	4.990	78	717346	48.60 ug/L	98
49) 1,2-Dichloroethane	5.039	62	199985	46.21 ug/L	95
50) Iso-Butyl Alcohol	5.081	43	168743	803.48 ug/L	94
51) n-Heptane	5.703	43	251724	50.04 ug/L	98
52) 1-Butanol	6.544	56	335773	2431.44 ug/L	99
53) Trichloroethene	6.361	130	177476	51.63 ug/L	97
54) Methylcyclohexane	6.733	55	268042	51.30 ug/L	94
55) 1,2-Diclpropane	6.813	63	195305	50.66 ug/L	97
56) Dibromomethane	7.050	93	107168	48.37 ug/L	95
57) 1,4-Dioxane	7.215	88	62060	998.81 ug/L	91
58) Methyl Methacrylate	7.300	69	134720	48.56 ug/L	89
59) Bromodichloromethane	7.459	83	220340	51.56 ug/L	97
60) 2-Nitropropane	7.910	41	59164	82.24 ug/L	96
61) 2-Chloroethylvinyl Ether	8.136	63	107659	51.82 ug/L	96
62) cis-1,3-Dichloropropene	8.288	75	283055	52.45 ug/L	99
63) 4-Methyl-2-pentanone	8.617	43	175382	48.44 ug/L	95
65) Toluene	8.782	91	791628	52.64 ug/L	99
66) trans-1,3-Dichloropropene	9.178	75	227742	52.70 ug/L	98
67) Ethyl Methacrylate	9.410	69	243152	50.26 ug/L	94
68) 1,1,2-Trichloroethane	9.404	97	160618	50.88 ug/L	91
71) Tetrachloroethene	9.550	164	138973	48.16 ug/L	97
72) 2-Hexanone	9.824	43	129009	42.18 ug/L	95
73) 1,3-Dichloropropane	9.611	76	297004	45.37 ug/L	99
74) Dibromochloromethane	9.897	129	154850	46.80 ug/L	98
75) N-Butyl Acetate	10.056	43	276609	44.68 ug/L	98
76) 1,2-Dibromoethane	9.989	107	159568	46.41 ug/L	97
77) Chlorobenzene	10.641	112	502517	46.53 ug/L	97
78) 1,1,1,2-Tetrachloroethane	10.769	131	155981	47.56 ug/L	97
79) Ethylbenzene	10.818	106	273518	48.39 ug/L	95
80) (m+p)Xylene	10.970	106	672139	97.99 ug/L	96
81) o-Xylene	11.415	106	324297	47.10 ug/L	98
82) Styrene	11.434	104	561480	47.90 ug/L	99
83) Bromoform	11.604	173	89386	45.22 ug/L	99
84) Isopropylbenzene	11.854	105	800202	45.97 ug/L	97
85) Cyclohexanone	11.903	55	685778	817.46 ug/L	91
86) trans-1,4-Dichloro-2-B...	12.257	53	49498	42.64 ug/L	88
88) 1,1,2,2-Tetrachloroethane	12.196	83	225414	42.99 ug/L	100
89) Bromobenzene	12.123	156	201394	46.16 ug/L #	88
90) 1,2,3-Trichloropropane	12.214	110	62087	42.77 ug/L #	88
91) n-Propylbenzene	12.305	91	1028724	48.06 ug/L	98
92) 2-Chlorotoluene	12.360	91	564693	46.49 ug/L	98
93) 4-Chlorotoluene	12.482	91	686620	46.86 ug/L	98
94) 1,3,5-Trimethylbenzene	12.513	105	684052	47.64 ug/L	99
95) tert-Butylbenzene	12.848	119	589442	48.12 ug/L	99
96) 1,2,4-Trimethylbenzene	12.897	105	720504	48.05 ug/L	99
97) sec-Butylbenzene	13.080	105	931555	48.01 ug/L	96
98) p-Isopropyltoluene	13.250	119	744414	47.91 ug/L	97
99) 1,3-Dclbenz	13.153	146	389315	46.67 ug/L	99
100) 1,4-Dclbenz	13.250	146	390614	45.25 ug/L	98
101) n-Butylbenzene	13.671	91	755768	48.79 ug/L	99
102) 1,2-Dclbenz	13.628	146	369233	45.38 ug/L	98
103) 1,2-Dibromo-3-chloropr...	14.433	157	38207	41.27 ug/L	97

1st FN 08/09/16
2nd WR 08/09/16

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA14\Data\080616\
Data File : B7367.D
Acq On : 6 Aug 2016 3:07 pm
Operator : F.Naegler
Sample : CCV Inst : MSVOA14
Misc :
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 06 16:12:33 2016
Quant Method : I:\ACQUDATA\MSVOA14\Methods\S080316.M
Quant Title : MS#14 - 8260 SOILS 10ml PURGE
QLast Update : Wed Aug 03 16:40:37 2016
Response via : Initial Calibration

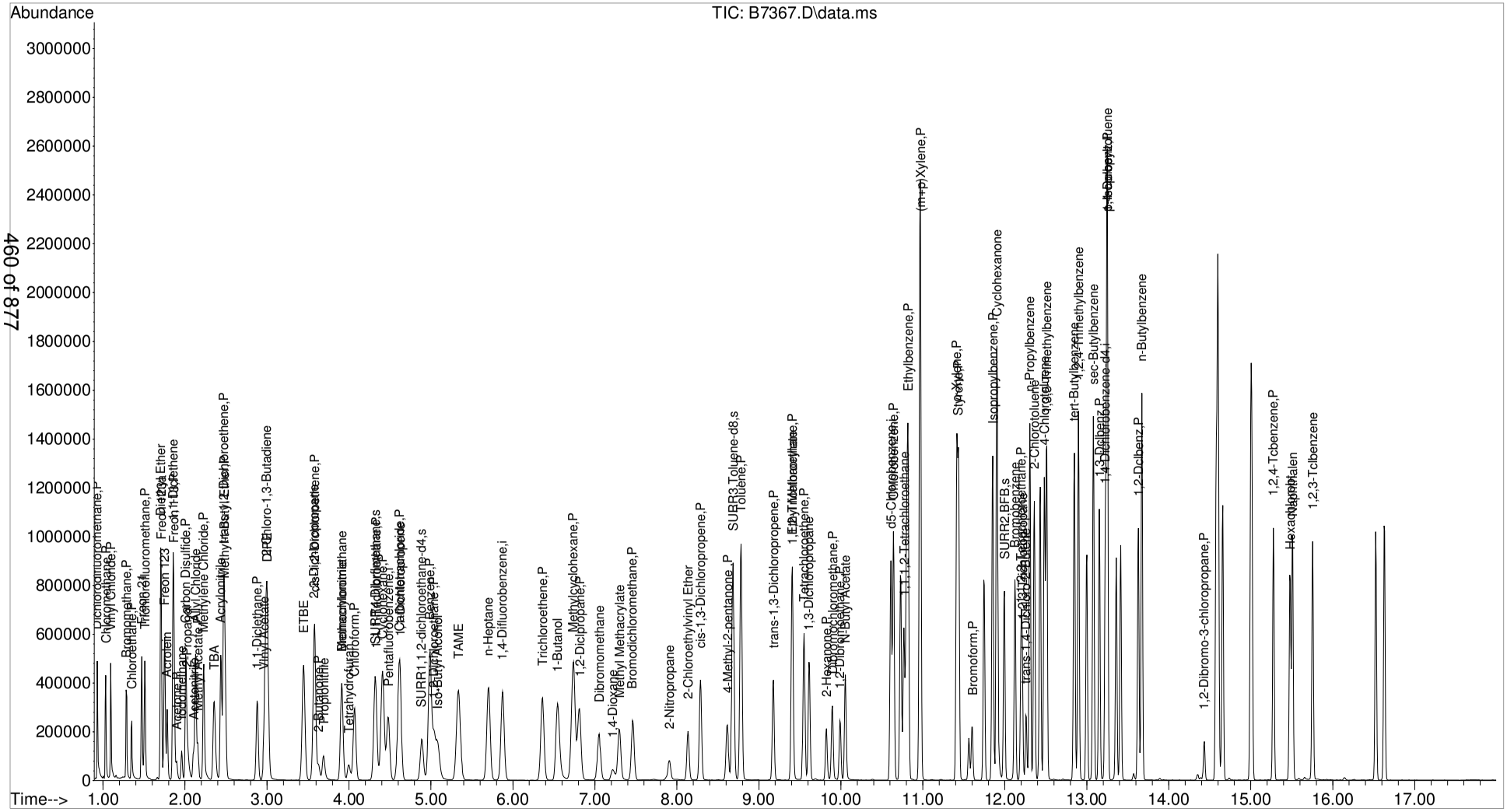
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
104) 1,2,4-Tcbenzene	15.274	180	267741	44.51 ug/L	97
105) Hexachlorobt	15.482	225	140576	46.19 ug/L	95
106) Naphthalen	15.512	128	674592	43.47 ug/L	99
107) 1,2,3-Tclbenzene	15.756	180	256280	43.67 ug/L	95

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

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA14\Data\080616\
Data File : B7367.D
Acq On : 6 Aug 2016 3:07 pm
Operator : F.Naegler
Sample : CCV Inst : MSVOA14
Misc :
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 06 16:12:33 2016
Quant Method : I:\ACQUDATA\MSVOA14\Methods\S080316.M
Quant Title : MS#14 - 8260 SOILS 10ml PURGE
QLast Update : Wed Aug 03 16:40:37 2016
Response via : Initial Calibration



S080316.M Sat Aug 06 16:14:05 2016 MSVO10 Page: 4

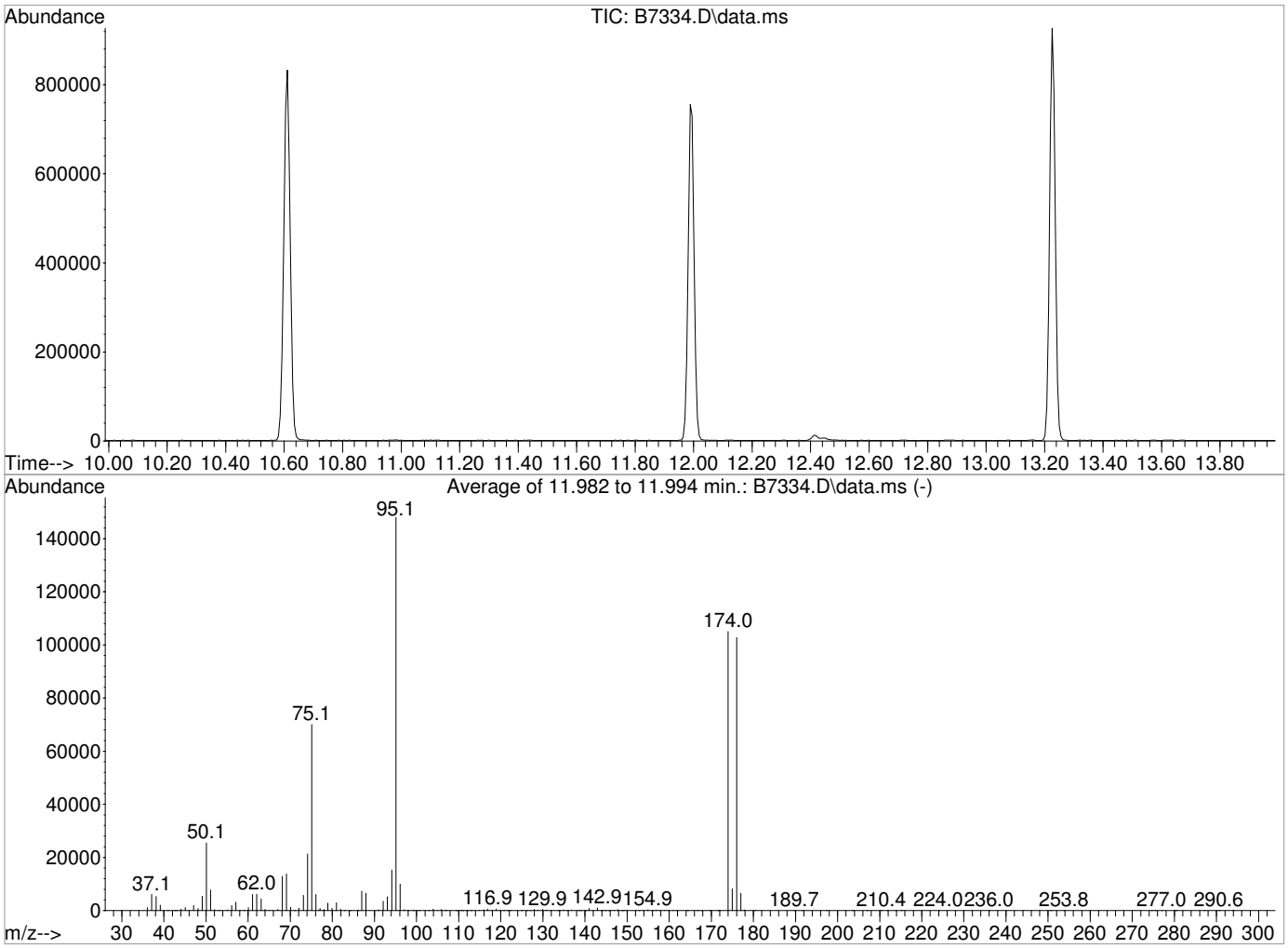
1st FJ 08/09/16
2nd NR 08/09/16

BFB

Data Path : I:\ACQUDATA\MSVOA14\Data\080416\
Data File : B7334.D
Acq On : 4 Aug 2016 9:10 am
Operator : F.Naegler
Sample : TUNE Inst : MSVOA14
Misc :
ALS Vial : 2 Sample Multiplier: 1

Integration File: CPD4.P

Method : I:\ACQUDATA\MSVOA14\Methods\S080316.M
Title : MS#14 - 8260 SOILS 10ml PURGE
Last Update : Wed Aug 03 16:40:37 2016



AutoFind: Scans 1820, 1821, 1822; Background Corrected with Scan 1814

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	17.2	25429	PASS
75	95	30	60	47.3	70027	PASS
95	95	100	100	100.0	148032	PASS
96	95	5	9	6.7	9928	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	71.0	105029	PASS
175	174	5	9	7.8	8242	PASS
176	174	95	101	97.8	102747	PASS
177	176	5	9	6.3	6519	PASS

1st FN 08/09/16
2nd WR 08/09/16

GC/MS QA-QC Check Report

Tune File : I:\ACQUDATA\MSVOA14\Data\080616\B7365.D
Tune Time : 6 Aug 2016 2:04 pm

Daily Calibration File : I:\ACQUDATA\MSVOA14\Data\080616\B7367.D

265501 463000 453794

221033

File	Sample	Surrogate Recovery %				Internal Standard Responses		
B7368.D								
	LCS	118	114	128	118	273375	444380	455586
				217122				
B7370.D								
	MBLK	111	103	111	120	261558	453382	432629
				233334				
B7371.D								
	R1608276-0	112	120	115	114	234335	379140	374946
				190521				
B7376.D								
	R1607943-0	111	115	112	107	242419	437554	415287
				179270				
B7377.D								
	R1607943-0	103	105	112	87	223443	419064	358013
				125090				
B7378.D								
	R1607943-0	123	121	119	117	203396	342048	357412
				181225				
B7379.D								
	R1607943-0	111	119	118	108	209247	379483	379510
				182254				
B7380.D								
	R1607943-0	109	116	116	111	242670	444560	431666
				209755				
B7381.D								
	R1607943-0	118	118	123	96	231918	410009	390977
				140890				
B7382.D								
	R1608171-0	111	121	122	124	222413	402931	456894
				226035				
B7383.D								
	R1608171-0	111	122	106	88	215368	404261	351657
				142418				
B7384.D								
	R1608171-0	111	116	119	111	203798	370110	385890
				181119				
B7385.D								
	R1608160-0	112	120	122	130	256282	485903	546272
				257750				
B7386.D								

1st FN 08/09/16
2nd KR 08/09/16

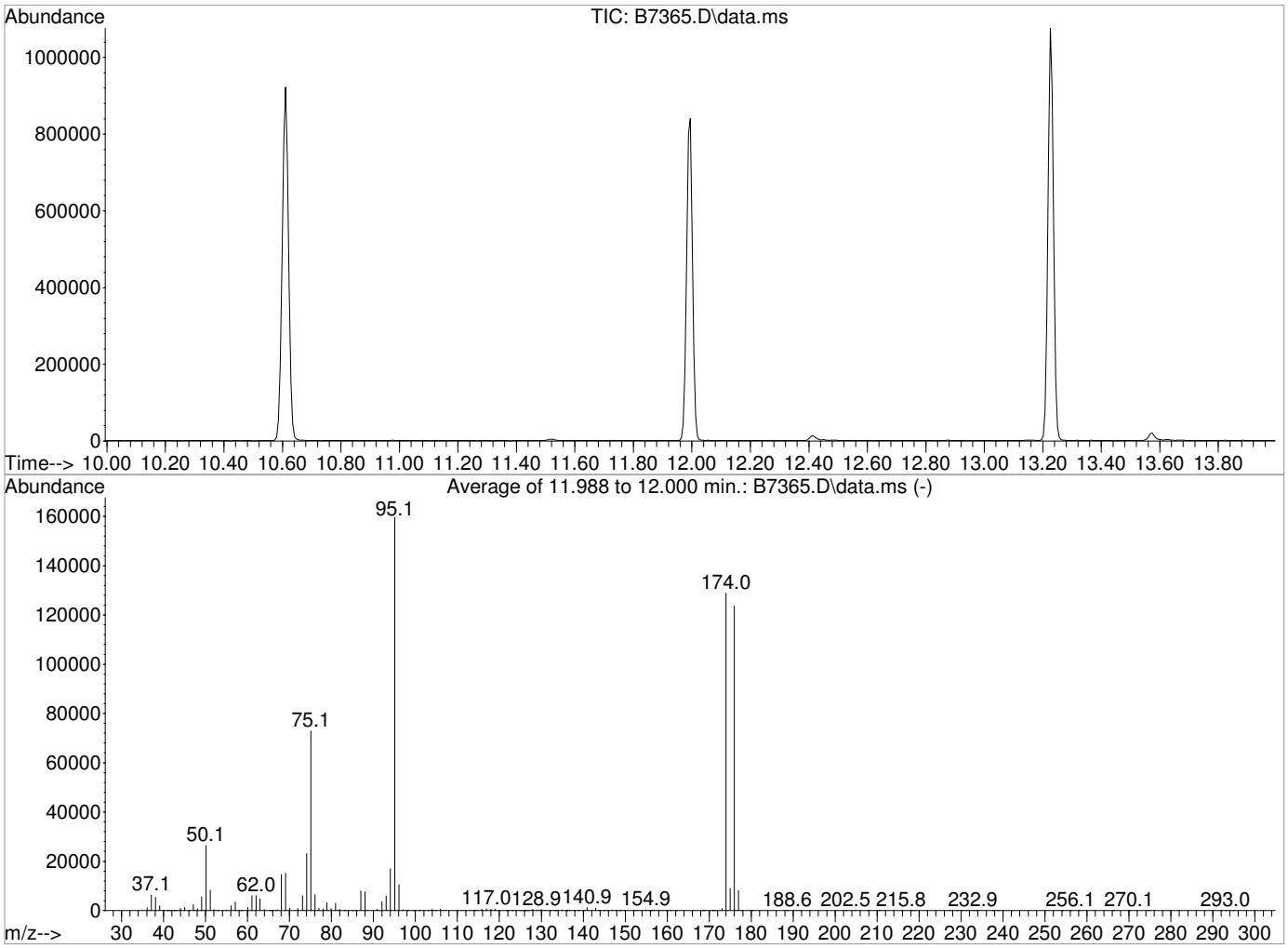
```
         R1608160-0  121  129* 121  120      248320     423728     470912
                                245940
-----------------------------------------------------------------------
B7387.D
         R1608160-0  109  112  119  120      218502     403705     446241
                                230730
-----------------------------------------------------------------------
B7388.D
         R1608170-0  111  112  127  125      246934     457164     487627
                                253749
-----------------------------------------------------------------------
B7389.D
         R1608170-0  109  111  120  131      225357     417313     487166
                                240613
-----------------------------------------------------------------------
B7390.D
         R1607963-0   58* 108  127  112      224578     442223     464718
                                242549
-----------------------------------------------------------------------
B7391.D
         R1607963-0   80  126  131  142*     228475     400061     480104
                                260953
-----------------------------------------------------------------------
B7392.D
         R1607963-0   68  111  121  124      216576     397845     454559
                                241646
-----------------------------------------------------------------------
(fails) - fails 12hr time check   * - fails criteria

    Created: Mon Aug 08 09:25:15 2016  MSVOA14
```

BFB

Data Path : I:\ACQUDATA\MSVOA14\Data\080616\
Data File : B7365.D
Acq On : 6 Aug 2016 2:04 pm
Operator : F.Naegler
Sample : TUNE Inst : MSVOA14
Misc :
ALS Vial : 2 Sample Multiplier: 1

Integration File: CPD4.P

Method : I:\ACQUDATA\MSVOA14\Methods\S080316.M
Title : MS#14 - 8260 SOILS 10ml PURGE
Last Update : Wed Aug 03 16:40:37 2016



AutoFind: Scans 1821, 1822, 1823; Background Corrected with Scan 1815

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	16.5	26371	PASS
75	95	30	60	45.6	72856	PASS
95	95	100	100	100.0	159653	PASS
96	95	5	9	6.6	10525	PASS
173	174	0.00	2	0.7	841	PASS
174	95	50	120	80.7	128851	PASS
175	174	5	9	7.0	8958	PASS
176	174	95	101	96.0	123664	PASS
177	176	5	9	6.6	8105	PASS

Client: ALS Environmental - Canada **Service Request:** R1607963
Project: Picatinny Arsenal **Calibration Date:** 8/3/2016

Initial Calibration Summary
Volatile Organic Compounds by GC/MS, Unpreserved

Calibration ID: RC1600076 **Signal ID:** 1
Instrument ID: R-MS-14

#	Lab Code	Sample Name	File Location	Aquisition Date
01	RC1600076-01	1.0 PPB STD	I:\ACQUDATA\MSVOA14\Data\080316\B7320.D	08/03/2016 10:49
02	RC1600076-02	2.0 PPB STD	I:\ACQUDATA\MSVOA14\Data\080316\B7321.D	08/03/2016 11:13
03	RC1600076-03	5.0 PPB STD	I:\ACQUDATA\MSVOA14\Data\080316\B7322.D	08/03/2016 11:41
04	RC1600076-04	20 PPB STD	I:\ACQUDATA\MSVOA14\Data\080316\B7323.D	08/03/2016 12:33
05	RC1600076-05	50 PPB STD	I:\ACQUDATA\MSVOA14\Data\080316\B7324.D	08/03/2016 12:57
06	RC1600076-06	100 PPB STD	I:\ACQUDATA\MSVOA14\Data\080316\B7325.D	08/03/2016 13:21
07	RC1600076-07	150 PPB STD	I:\ACQUDATA\MSVOA14\Data\080316\B7326.D	08/03/2016 13:55
08	RC1600076-08	200 PPB STD	I:\ACQUDATA\MSVOA14\Data\080316\B7327.D	08/03/2016 14:19

Analyte

Benzene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	1.000	1.717	02	2.000	1.531	03	5.000	1.604	04	20.000	1.579
05	50.000	1.541	06	100.000	1.619	07	150.000	1.588	08	200.000	1.572

Trichloroethene (TCE)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	1.000	0.3766	02	2.000	0.3727	03	5.000	0.3684	04	20.000	0.3539
05	50.000	0.3624	06	100.000	0.371	07	150.000	0.3923	08	200.000	0.3723

4-Bromofluorobenzene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
03	10.000	0.5258	04	20.000	0.3759	05	50.000	0.4371	06	100.000	0.4916
07	200.000	0.4163									

Dibromofluoromethane

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
03	10.000	0.2937	04	20.000	0.26	05	50.000	0.3078	06	100.000	0.3182
07	200.000	0.3133									

Toluene-d8

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
03	10.000	1.321	04	20.000	1.091	05	50.000	1.274	06	100.000	1.268
07	200.000	1.159									

		Calibration Evaluation				Calibration Evaluation	
Analyte Name	**Compound Type**	**Fit Type**	**Eval**	**Eval Result**	**Control Criteria**	**Average RRF**	**Minimum RRF**
Benzene	**TRG**	**Average RF**	**% RSD**	**3.6**	**≤20**	**1.594**	**0.500**
Trichloroethene (TCE)	**TRG**	**Average RF**	**% RSD**	**3.0**	**≤20**	**0.3712**	**0.200**
4-Bromofluorobenzene	**SURR**	**Average RF**	**% RSD**	**13.3**	**≤20**	**0.4493**	
Dibromofluoromethane	**SURR**	**Average RF**	**% RSD**	**7.9**	**≤20**	**0.2986**	
Toluene-d8	**SURR**	**Average RF**	**% RSD**	**7.7**	**≤20**	**1.223**	

Client: ALS Environmental - Canada **Service Request:** R1607963
Project: Picatinny Arsenal **Calibration Date:** 8/3/2016

Initial Calibration Summary
Volatile Organic Compounds by GC/MS, Unpreserved

Calibration ID: RC1600076 **Signal ID:** 1
Instrument ID: R-MS-14

#	Lab Code	Sample Name	File Location	Aquisition Date
01	RC1600076-01	1.0 PPB STD	I:\ACQUDATA\MSVOA14\Data\080316\B7320.D	08/03/2016 10:49
02	RC1600076-02	2.0 PPB STD	I:\ACQUDATA\MSVOA14\Data\080316\B7321.D	08/03/2016 11:13
03	RC1600076-03	5.0 PPB STD	I:\ACQUDATA\MSVOA14\Data\080316\B7322.D	08/03/2016 11:41
04	RC1600076-04	20 PPB STD	I:\ACQUDATA\MSVOA14\Data\080316\B7323.D	08/03/2016 12:33
05	RC1600076-05	50 PPB STD	I:\ACQUDATA\MSVOA14\Data\080316\B7324.D	08/03/2016 12:57
06	RC1600076-06	100 PPB STD	I:\ACQUDATA\MSVOA14\Data\080316\B7325.D	08/03/2016 13:21
07	RC1600076-07	150 PPB STD	I:\ACQUDATA\MSVOA14\Data\080316\B7326.D	08/03/2016 13:55
08	RC1600076-08	200 PPB STD	I:\ACQUDATA\MSVOA14\Data\080316\B7327.D	08/03/2016 14:19

Analyte

Benzene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	1.000	1.717	02	2.000	1.531	03	5.000	1.604	04	20.000	1.579
05	50.000	1.541	06	100.000	1.619	07	150.000	1.588	08	200.000	1.572

Trichloroethene (TCE)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	1.000	0.3766	02	2.000	0.3727	03	5.000	0.3684	04	20.000	0.3539
05	50.000	0.3624	06	100.000	0.371	07	150.000	0.3923	08	200.000	0.3723

4-Bromofluorobenzene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
03	10.000	0.5258	04	20.000	0.3759	05	50.000	0.4371	06	100.000	0.4916
07	200.000	0.4163									

Dibromofluoromethane

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
03	10.000	0.2937	04	20.000	0.26	05	50.000	0.3078	06	100.000	0.3182
07	200.000	0.3133									

Toluene-d8

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
03	10.000	1.321	04	20.000	1.091	05	50.000	1.274	06	100.000	1.268
07	200.000	1.159									

		Calibration Evaluation				Calibration Evaluation	
Analyte Name	**Compound Type**	**Fit Type**	**Eval**	**Eval Result**	**Control Criteria**	**Average RRF**	**Minimum RRF**
Benzene	**TRG**	**Average RF**	**% RSD**	**3.6**	**≤20**	**1.594**	**0.500**
Trichloroethene (TCE)	**TRG**	**Average RF**	**% RSD**	**3.0**	**≤20**	**0.3712**	**0.200**
4-Bromofluorobenzene	**SURR**	**Average RF**	**% RSD**	**13.3**	**≤20**	**0.4493**	
Dibromofluoromethane	**SURR**	**Average RF**	**% RSD**	**7.9**	**≤20**	**0.2986**	
Toluene-d8	**SURR**	**Average RF**	**% RSD**	**7.7**	**≤20**	**1.223**	

Client: ALS Environmental - Canada **Service Request:** R1607963
Project: Picatinny Arsenal **Calibration Date:** 8/3/2016

Initial Calibration Verification Summary
Volatile Organic Compounds by GC/MS, Unpreserved

Calibration ID: RC1600076 **Signal ID:** 1
Instrument ID: R-MS-14

#	Lab Code	Sample Name	File Location	Aquisition Date
09	RC1600076-09	50 PPB ICV	I:\ACQUDATA\MSVOA14\Data\080316\B7330.D	08/03/2016 15:50

Analyte Name	Expected	Result	Average RF	SSV RF	% D	Criteria	Curve Fit
Benzene	50.0	51.4	1.594	1.639	2.80	±30	Average RF
Trichloroethene (TCE)	50.0	54.3	0.371	0.403	8.60	±30	Average RF
4-Bromofluorobenzene	50.0	48.1	0.449	0.433	-3.702	±30	Average RF
Dibromofluoromethane	50.0	51.7	0.299	0.309	3.33	±30	Average RF
Toluene-d8	50.0	51.9	1.223	1.270	3.83	±30	Average RF

Client: ALS Environmental - Canada **Service Request:** R1607963
Project: Picatinny Arsenal **Calibration Date:** 8/3/2016

Initial Calibration Verification Summary
Volatile Organic Compounds by GC/MS, Unpreserved

Calibration ID: RC1600076 **Signal ID:** 1
Instrument ID: R-MS-14

#	Lab Code	Sample Name	File Location	Aquisition Date
09	RC1600076-09	50 PPB ICV	I:\ACQUDATA\MSVOA14\Data\080316\B7330.D	08/03/2016 15:50

Analyte Name	Expected	Result	Average RF	SSV RF	% D	Criteria	Curve Fit
Benzene	50.0	51.4	1.594	1.639	2.80	±30	Average RF
Trichloroethene (TCE)	50.0	54.3	0.371	0.403	8.60	±30	Average RF
4-Bromofluorobenzene	50.0	48.1	0.449	0.433	-3.702	±30	Average RF
Dibromofluoromethane	50.0	51.7	0.299	0.309	3.33	±30	Average RF
Toluene-d8	50.0	51.9	1.223	1.270	3.83	±30	Average RF

Client: ALS Environmental - Canada
Project: Picatinny Arsenal

Service Request: R1607963
Date Analyzed: 08/04/16 09:47

Continuing Calibration Verification (CCV) Summary
Volatile Organic Compounds by GC/MS, Unpreserved

Analysis Method: 8260C
File ID: I:\ACQUDATA\MSVOA14\Data\080416\B7335.D\

Calibration Date: 8/3/2016
Calibration ID: RC1600076
Analysis Lot: 508399
Units: ug/L

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
Benzene	50.0	49.4	1.6	1.6	-1.2	NA	±20	Average RF
Trichloroethene (TCE)	50.0	49.8	0.4	0.4	-0.3	NA	±20	Average RF
4-Bromofluorobenzene	50.0	51.6	0.4	0.5	3.2	NA	±20	Average RF
Dibromofluoromethane	50.0	52.0	0.3	0.3	4.0	NA	±20	Average RF
Toluene-d8	50.0	48.4	1.2	1.2	-3.2	NA	±20	Average RF

Client: ALS Environmental - Canada
Project: Picatinny Arsenal

Service Request: R1607963
Date Analyzed: 08/06/16 15:07

Continuing Calibration Verification (CCV) Summary
Volatile Organic Compounds by GC/MS, Unpreserved

Analysis Method: 8260C
File ID: I:\ACQUDATA\MSVOA14\DATA\080616\B7367.D\

Calibration Date: 8/3/2016
Calibration ID: RC1600076
Analysis Lot: 508810
Units: ug/L

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
Benzene	50.0	48.6	1.6	1.5	-2.8	NA	±20	Average RF
Trichloroethene (TCE)	50.0	51.6	0.4	0.4	3.3	NA	±20	Average RF
4-Bromofluorobenzene	50.0	57.9	0.4	0.5	15.8	NA	±20	Average RF
Dibromofluoromethane	50.0	54.0	0.3	0.3	7.9	NA	±20	Average RF
Toluene-d8	50.0	60.1	1.2	1.5	20.2*	NA	±20	Average RF

Initial Calibration - Summary Report

Calibration ID:	RC1600076	8/3/16	**Instrument ID:**	R-MS-14
			Column Name:	1

Analyte	Type	Curve Fit	Weighting	Min RF	Mean RF	Criteria	Result
1,1,1,2-Tetrachloroethane	T	Average RF			0.3613	<=15	8.7
1,1,1,2-Tetrachloroethane	T	Average RF			0.3613	<=20	8.7
1,1,1-Trichloroethane (TCA)	T	Average RF		0.100	0.7700	<=15	6.4
1,1,1-Trichloroethane (TCA)	T	Average RF		0.100	0.7700	<=20	6.4
1,1,2,2-Tetrachloroethane	T	Average RF		0.300	1.186	<=15	7.7
1,1,2,2-Tetrachloroethane	T	Average RF		0.300	1.186	<=20	7.7
1,1,2-Trichloroethane	T	Average RF		0.100	0.3409	<=15	6.2
1,1,2-Trichloroethane	T	Average RF		0.100	0.3409	<=20	6.2
1,1,2-Trichlorotrifluoroethane	T	Average RF		0.100	0.5842	<=15	5.6
1,1,2-Trichlorotrifluoroethane	T	Average RF		0.100	0.5842	<=20	5.6
1,1-Dichloroethane (1,1-DCA)	T	Average RF		0.200	1.137	<=15	3.3
1,1-Dichloroethane (1,1-DCA)	T	Average RF		0.200	1.137	<=20	3.3
1,1-Dichloroethene (1,1-DCE)	T	Average RF		0.100	0.5742	<=15	4.8
1,1-Dichloroethene (1,1-DCE)	T	Average RF		0.100	0.5742	<=20	4.8
1,1-Dichloropropene	T	Average RF			0.5319	<=15	4.5
1,1-Dichloropropene	T	Average RF			0.5319	<=20	4.5
1,2,3-Trichlorobenzene	T	Average RF			1.327	<=15	7.7
1,2,3-Trichlorobenzene	T	Average RF			1.327	<=20	7.7
1,2,3-Trichloropropane	T	Average RF			0.3284	<=15	9.7
1,2,3-Trichloropropane	T	Average RF			0.3284	<=20	9.7
1,2,4-Trichlorobenzene	T	Average RF		0.200	1.361	<=15	6.5
1,2,4-Trichlorobenzene	T	Average RF		0.200	1.361	<=20	6.5
1,2,4-Trimethylbenzene	T	Average RF			3.392	<=15	4.4
1,2,4-Trimethylbenzene	T	Average RF			3.392	<=20	4.4
1,2-Dibromo-3-chloropropane (DBCP)	T	Quadratic	1/X2	0.050	0.2117	>=0.99	0.9977
1,2-Dibromoethane	T	Average RF		0.100	0.3788	<=15	8.8
1,2-Dibromoethane	T	Average RF		0.100	0.3788	<=20	8.8
1,2-Dichloro-1,1,2-trifluoroethane (CFC 123	T	Average RF			0.8198	<=15	4.9
1,2-Dichloro-1,1,2-trifluoroethane (CFC 123	T	Average RF			0.8198	<=20	4.9
1,2-Dichlorobenzene	T	Average RF		0.400	1.840	<=15	3.0
1,2-Dichlorobenzene	T	Average RF		0.400	1.840	<=20	3.0
1,2-Dichloroethane	T	Average RF		0.100	0.4673	<=15	2.2
1,2-Dichloroethane	T	Average RF		0.100	0.4673	<=20	2.2
1,2-Dichloropropane	T	Average RF		0.100	0.4163	<=15	6.3
1,2-Dichloropropane	T	Average RF		0.100	0.4163	<=20	6.3
1,3,5-Trimethylbenzene	T	Average RF			3.248	<=15	4.1
1,3,5-Trimethylbenzene	T	Average RF			3.248	<=20	4.1
1,3-Dichlorobenzene	T	Average RF		0.600	1.887	<=15	3.7
1,3-Dichlorobenzene	T	Average RF		0.600	1.887	<=20	3.7
1,3-Dichloropropane	T	Average RF			0.7213	<=15	4.9
1,3-Dichloropropane	T	Average RF			0.7213	<=20	4.9
1,4-Dichlorobenzene	T	Average RF		0.500	1.953	<=15	3.2
1,4-Dichlorobenzene	T	Average RF		0.500	1.953	<=20	3.2
1,4-Dioxane	T	Average RF			0.006710	<=15	12.6
1,4-Dioxane	T	Average RF			0.006710	<=20	12.6
1-Butanol	T	Average RF			0.01491	<=15	13.2
1-Butanol	T	Average RF			0.01491	<=20	13.2
2,2-Dichloro-1,1,1-trifluoroethane (CFC 123	T	Average RF			0.9444	<=15	4.4
2,2-Dichloro-1,1,1-trifluoroethane (CFC 123	T	Average RF			0.9444	<=20	4.4
2,2-Dichloropropane	T	Average RF			0.6977	<=15	11.4
2,2-Dichloropropane	T	Average RF			0.6977	<=20	11.4
2-Butanone (MEK)	T	Average RF		0.05	0.4066	<=15	10.9

Initial Calibration - Summary Report

Calibration ID:	RC1600076	**Instrument ID:**	R-MS-14
		Column Name:	1

Analyte	Type	Curve Fit	Weighting	Min RF	Mean RF	Criteria	Result
2-Butanone (MEK)	T	Average RF		0.05	0.4066	<=20	10.9
2-Chloro-1,3-butadiene	T	Average RF			0.9550	<=15	6.5
2-Chloro-1,3-butadiene	T	Average RF			0.9550	<=20	6.5
2-Chloroethyl Vinyl Ether	T	Average RF			0.2244	<=15	10.6
2-Chloroethyl Vinyl Ether	T	Average RF			0.2244	<=20	10.6
2-Chlorotoluene	T	Average RF			2.748	<=15	5.3
2-Chlorotoluene	T	Average RF			2.748	<=20	5.3
2-Hexanone	T	Average RF		0.05	0.3370	<=15	12.7
2-Hexanone	T	Average RF		0.05	0.3370	<=20	12.7
2-Methyl-1-propanol	T	Average RF			0.02268	<=15	10.6
2-Methyl-1-propanol	T	Average RF			0.02268	<=20	10.6
2-Methyl-2-propanol	T	Average RF			0.09288	<=15	6.0
2-Methyl-2-propanol	T	Average RF			0.09288	<=20	6.0
2-Nitropropane	T	Average RF			0.07769	<=15	5.0
2-Nitropropane	T	Average RF			0.07769	<=20	5.0
2-Propanol	T	Average RF			0.05980	<=15	11.2
2-Propanol	T	Average RF			0.05980	<=20	11.2
3-Chloro-1-propene	T	Average RF			0.3604	<=15	5.9
3-Chloro-1-propene	T	Average RF			0.3604	<=20	5.9
4-Chlorotoluene	T	Average RF			3.315	<=15	3.1
4-Chlorotoluene	T	Average RF			3.315	<=20	3.1
4-Isopropyltoluene	T	Average RF			3.515	<=15	4.8
4-Isopropyltoluene	T	Average RF			3.515	<=20	4.8
4-Methyl-2-pentanone	T	Average RF		0.05	0.3910	<=15	8.7
4-Methyl-2-pentanone	T	Average RF		0.05	0.3910	<=20	8.7
Acetone	T	Linear	1/X2	0.05	0.2912	>=0.99	0.9900
Acetonitrile	T	Average RF			0.05251	<=15	13.7
Acetonitrile	T	Average RF			0.05251	<=20	13.7
Acrolein	T	Average RF			0.1513	<=15	3.0
Acrolein	T	Average RF			0.1513	<=20	3.0
Acrylonitrile	T	Average RF			0.3105	<=15	2.4
Acrylonitrile	T	Average RF			0.3105	<=20	2.4
Benzene	T	Average RF		0.500	1.594	<=15	3.6
Benzene	T	Average RF		0.500	1.594	<=20	3.6
Bromobenzene	T	Average RF			0.9869	<=15	3.6
Bromobenzene	T	Average RF			0.9869	<=20	3.6
Bromochloromethane	T	Average RF			0.4061	<=15	3.1
Bromochloromethane	T	Average RF			0.4061	<=20	3.1
Bromodichloromethane	T	Average RF		0.200	0.4615	<=15	7.0
Bromodichloromethane	T	Average RF		0.200	0.4615	<=20	7.0
Bromoform	T	Average RF		0.100	0.2178	<=15	14.2
Bromoform	T	Average RF		0.100	0.2178	<=20	14.2
Bromomethane	T	Quadratic	1/X2	0.100	0.5251	>=0.99	0.9933
Carbon Disulfide	T	Average RF		0.100	1.648	<=15	9.5
Carbon Disulfide	T	Average RF		0.100	1.648	<=20	9.5
Carbon Tetrachloride	T	Average RF		0.05	0.1134	<=15	10.0
Carbon Tetrachloride	T	Average RF		0.05	0.1134	<=20	10.0
Chlorobenzene	T	Average RF		0.500	1.190	<=15	1.1
Chlorobenzene	T	Average RF		0.500	1.190	<=20	1.1
Chloroethane	T	Average RF		0.100	0.4815	<=15	10.7
Chloroethane	T	Average RF		0.100	0.4815	<=20	10.7
Chloroform	T	Average RF		0.200	1.100	<=15	3.5

Initial Calibration - Summary Report

Calibration ID: RC1600076

Instrument ID: R-MS-14
Column Name: 1

Analyte	Type	Curve Fit	Weighting	Min RF	Mean RF	Criteria	Result
Chloroform	T	Average RF		0.200	1.100	<=20	3.5
Chloromethane	T	Average RF		0.100	0.9319	<=15	6.6
Chloromethane	T	Average RF		0.100	0.9319	<=20	6.6
Cyclohexane	T	Average RF		0.100	0.3574	<=15	4.0
Cyclohexane	T	Average RF		0.100	0.3574	<=20	4.0
Cyclohexanone	T	Average RF			0.09243	<=15	9.5
Cyclohexanone	T	Average RF			0.09243	<=20	9.5
Dibromochloromethane	T	Average RF		0.100	0.3645	<=15	14.1
Dibromochloromethane	T	Average RF		0.100	0.3645	<=20	14.1
Dibromomethane	T	Average RF			0.2392	<=15	2.9
Dibromomethane	T	Average RF			0.2392	<=20	2.9
Dichlorodifluoromethane (CFC 12)	T	Average RF		0.100	0.7634	<=15	10.3
Dichlorodifluoromethane (CFC 12)	T	Average RF		0.100	0.7634	<=20	10.3
Dichlorofluoromethane (CFC 21)	T	Average RF			1.186	<=15	7.0
Dichlorofluoromethane (CFC 21)	T	Average RF			1.186	<=20	7.0
Dichloromethane	T	Average RF		0.100	0.7136	<=15	2.6
Dichloromethane	T	Average RF		0.100	0.7136	<=20	2.6
Diethyl Ether	T	Average RF			0.6186	<=15	2.3
Diethyl Ether	T	Average RF			0.6186	<=20	2.3
Diisopropyl Ether	T	Average RF			2.157	<=15	5.8
Diisopropyl Ether	T	Average RF			2.157	<=20	5.8
Ethyl Methacrylate	T	Average RF			0.5225	<=15	14.4
Ethyl Methacrylate	T	Average RF			0.5225	<=20	14.4
Ethyl tert-Butyl Ether	T	Average RF			1.878	<=15	7.3
Ethyl tert-Butyl Ether	T	Average RF			1.878	<=20	7.3
Ethylbenzene	T	Average RF		0.100	0.6227	<=15	3.6
Ethylbenzene	T	Average RF		0.100	0.6227	<=20	3.6
Hexachlorobutadiene	T	Average RF			0.6884	<=15	7.3
Hexachlorobutadiene	T	Average RF			0.6884	<=20	7.3
Iodomethane	T	Average RF			0.3348	<=15	57.9
Iodomethane	T	Average RF			0.3348	<=20	57.9
Isopropylbenzene (Cumene)	T	Average RF		0.100	1.918	<=15	3.6
Isopropylbenzene (Cumene)	T	Average RF		0.100	1.918	<=20	3.6
Methacrylonitrile	T	Average RF			0.3175	<=15	7.4
Methacrylonitrile	T	Average RF			0.3175	<=20	7.4
Methyl Acetate	T	Average RF		0.100	0.5649	<=15	3.7
Methyl Acetate	T	Average RF		0.100	0.5649	<=20	3.7
Methyl Methacrylate	T	Average RF			0.2996	<=15	11.9
Methyl Methacrylate	T	Average RF			0.2996	<=20	11.9
Methyl tert-Butyl Ether	T	Average RF		0.100	1.882	<=15	5.1
Methyl tert-Butyl Ether	T	Average RF		0.100	1.882	<=20	5.1
Methylcyclohexane	T	Average RF		0.100	0.5643	<=15	8.0
Methylcyclohexane	T	Average RF		0.100	0.5643	<=20	8.0
Naphthalene	T	Average RF			3.510	<=15	12.5
Naphthalene	T	Average RF			3.510	<=20	12.5
Propionitrile	T	Average RF			0.1194	<=15	7.1
Propionitrile	T	Average RF			0.1194	<=20	7.1
Styrene	T	Average RF		0.300	1.292	<=15	6.7
Styrene	T	Average RF		0.300	1.292	<=20	6.7
Tetrachloroethene (PCE)	T	Average RF		0.200	0.3179	<=15	5.0
Tetrachloroethene (PCE)	T	Average RF		0.200	0.3179	<=20	5.0
Tetrahydrofuran (THF)	T	Average RF			0.2362	<=15	6.7

Initial Calibration - Summary Report

Calibration ID:	RC1600076	**Instrument ID:**	R-MS-14
		Column Name:	1

Analyte	Type	Curve Fit	Weighting	Min RF	Mean RF	Criteria	Result
Tetrahydrofuran (THF)	T	Average RF			0.2362	<=20	6.7
Toluene	T	Average RF		0.400	1.624	<=15	3.2
Toluene	T	Average RF		0.400	1.624	<=20	3.2
Trichloroethene (TCE)	T	Average RF		0.200	0.3712	<=15	3.0
Trichloroethene (TCE)	T	Average RF		0.200	0.3712	<=20	3.0
Trichlorofluoromethane (CFC 11)	T	Average RF		0.100	0.7734	<=15	4.9
Trichlorofluoromethane (CFC 11)	T	Average RF		0.100	0.7734	<=20	4.9
Vinyl Acetate	T	Average RF			0.1439	<=15	10.3
Vinyl Acetate	T	Average RF			0.1439	<=20	10.3
Vinyl Chloride	T	Average RF		0.100	0.8831	<=15	5.2
Vinyl Chloride	T	Average RF		0.100	0.8831	<=20	5.2
cis-1,2-Dichloroethene	T	Average RF		0.100	0.7284	<=15	3.0
cis-1,2-Dichloroethene	T	Average RF		0.100	0.7284	<=20	3.0
cis-1,3-Dichloropropene	T	Average RF		0.200	0.5828	<=15	12.9
cis-1,3-Dichloropropene	T	Average RF		0.200	0.5828	<=20	12.9
m,p-Xylenes	T	Average RF		0.100	0.7558	<=15	5.0
m,p-Xylenes	T	Average RF		0.100	0.7558	<=20	5.0
n-Butyl Acetate	T	Average RF			0.6822	<=15	13.3
n-Butyl Acetate	T	Average RF			0.6822	<=20	13.3
n-Butylbenzene	T	Average RF			3.504	<=15	5.7
n-Butylbenzene	T	Average RF			3.504	<=20	5.7
n-Heptane	T	Average RF			0.5433	<=15	7.2
n-Heptane	T	Average RF			0.5433	<=20	7.2
n-Propylbenzene	T	Average RF			4.842	<=15	4.0
n-Propylbenzene	T	Average RF			4.842	<=20	4.0
o-Xylene	T	Average RF		0.300	0.7587	<=15	3.7
o-Xylene	T	Average RF		0.300	0.7587	<=20	3.7
sec-Butylbenzene	T	Average RF			4.389	<=15	3.4
sec-Butylbenzene	T	Average RF			4.389	<=20	3.4
tert-Amyl Methyl Ether	T	Average RF			1.687	<=15	7.8
tert-Amyl Methyl Ether	T	Average RF			1.687	<=20	7.8
tert-Butylbenzene	T	Average RF			2.771	<=15	3.8
tert-Butylbenzene	T	Average RF			2.771	<=20	3.8
trans-1,2-Dichloroethene	T	Average RF		0.100	0.6698	<=15	3.7
trans-1,2-Dichloroethene	T	Average RF		0.100	0.6698	<=20	3.7
trans-1,3-Dichloropropene	T	Average RF		0.100	0.4667	<=15	14.9
trans-1,3-Dichloropropene	T	Average RF		0.100	0.4667	<=20	14.9
trans-1,4-Dichloro-2-butene	T	Average RF			0.1279	<=15	10.6
trans-1,4-Dichloro-2-butene	T	Average RF			0.1279	<=20	10.6
1,2-Dichloroethane-d4	S	Average RF			0.3367	<=15	6.6
1,2-Dichloroethane-d4	S	Average RF			0.3367	<=20	6.6
4-Bromofluorobenzene	S	Average RF			0.4493	<=15	13.3
4-Bromofluorobenzene	S	Average RF			0.4493	<=20	13.3
Dibromofluoromethane	S	Average RF			0.2986	<=15	7.9
Dibromofluoromethane	S	Average RF			0.2986	<=20	7.9
Toluene-d8	S	Average RF			1.223	<=15	7.7
Toluene-d8	S	Average RF			1.223	<=20	7.7

Initial Calibration - Summary Report

Exceptions

QAP	Method
LAB QAP	8260C

Compound	Type	Criteria	Result
Iodomethane	RSD	<= 20	57.9
Iodomethane	RSD	<= 15	57.9

Exceptions

QAP	Method
DOD QSM v5.0 Rochester	8260C

Compound	Type	Criteria	Result
Iodomethane	RSD	<= 15	57.9

Initial Calibration - Detailed Report

Calibration ID:	RC1600076	**Instrument ID:**	R-MS-14
		Signal ID:	1

#	Lab Code	Sample Name	File Location	Acquisition Date
01	RC1600076-01	1.0 PPB STD	I:\ACQUDATA\MSVOA14\Data\080316\B7320.D	8/3/16 10:49
02	RC1600076-02	2.0 PPB STD	I:\ACQUDATA\MSVOA14\Data\080316\B7321.D	8/3/16 11:13
03	RC1600076-03	5.0 PPB STD	I:\ACQUDATA\MSVOA14\Data\080316\B7322.D	8/3/16 11:41
04	RC1600076-04	20 PPB STD	I:\ACQUDATA\MSVOA14\Data\080316\B7323.D	8/3/16 12:33
05	RC1600076-05	50 PPB STD	I:\ACQUDATA\MSVOA14\Data\080316\B7324.D	8/3/16 12:57
06	RC1600076-06	100 PPB STD	I:\ACQUDATA\MSVOA14\Data\080316\B7325.D	8/3/16 13:21
07	RC1600076-07	150 PPB STD	I:\ACQUDATA\MSVOA14\Data\080316\B7326.D	8/3/16 13:55
08	RC1600076-08	200 PPB STD	I:\ACQUDATA\MSVOA14\Data\080316\B7327.D	8/3/16 14:19

Analyte	Curve Fit	Weighting		
1,1,1,2-Tetrachloroethane	Average RF		RSD = 8.7	Average RF = 0.3613

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	1.000	0.3600	02	2.000	0.3132	03	5.000	0.3210	04	20.000	0.3555
05	50.000	0.3669	06	100.000	0.3812	07	150.000	0.3981	08	200.000	0.3947

1,1,1-Trichloroethane (TCA)	Average RF		RSD = 6.4	Average RF = 0.7700

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	1.000	0.7608	02	2.000	0.7171	03	5.000	0.7252	04	20.000	0.7331
05	50.000	0.7628	06	100.000	0.7861	07	150.000	0.8613	08	200.000	0.8137

1,1,2,2-Tetrachloroethane	Average RF		RSD = 7.7	Average RF = 1.186

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	1.000	1.114	02	2.000	1.085	03	5.000	1.163	04	20.000	1.125
05	50.000	1.246	06	100.000	1.354	07	150.000	1.145	08	200.000	1.258

1,1,2-Trichloroethane	Average RF		RSD = 6.2	Average RF = 0.3409

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	1.000	0.3143	02	2.000	0.3244	03	5.000	0.3326	04	20.000	0.3450
05	50.000	0.3575	06	100.000	0.3527	07	150.000	0.3230	08	200.000	0.3777

1,1,2-Trichlorotrifluoroethane	Average RF		RSD = 5.6	Average RF = 0.5842

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	1.000	0.5742	02	2.000	0.6224	03	5.000	0.5848	04	20.000	0.5540
05	50.000	0.5488	06	100.000	0.5666	07	150.000	0.6423	08	200.000	0.5804

1,1-Dichloroethane (1,1-DCA)	Average RF		RSD = 3.3	Average RF = 1.137

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	1.000	1.157	02	2.000	1.089	03	5.000	1.083	04	20.000	1.136
05	50.000	1.138	06	100.000	1.142	07	150.000	1.197	08	200.000	1.156

1,1-Dichloroethene (1,1-DCE)	Average RF		RSD = 4.8	Average RF = 0.5742

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	1.000	0.5356	02	2.000	0.6091	03	5.000	0.5513	04	20.000	0.5728
05	50.000	0.5601	06	100.000	0.5729	07	150.000	0.6180	08	200.000	0.5737

1,1-Dichloropropene	Average RF		RSD = 4.5	Average RF = 0.5319

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	1.000	0.5470	02	2.000	0.5306	03	5.000	0.5403	04	20.000	0.5014
05	50.000	0.5009	06	100.000	0.5267	07	150.000	0.5734	08	200.000	0.5353

Initial Calibration - Detailed Report

Calibration ID:	RC1600076	**Instrument ID:**	R-MS-14
		Signal ID:	1

Analyte	Curve Fit	Weighting			
1,2,3-Trichlorobenzene	Average RF		RSD = 7.7	Average RF = 1.327	

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	1.000	1.284	02	2.000	1.174	03	5.000	1.226	04	20.000	1.349
05	50.000	1.351	06	100.000	1.316	07	150.000	1.461	08	200.000	1.460

| **1,2,3-Trichloropropane** | Average RF | | RSD = 9.7 | Average RF = 0.3284 | |

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	1.000	0.2704	02	2.000	0.3248	03	5.000	0.3074	04	20.000	0.3249
05	50.000	0.3513	06	100.000	0.3735	07	150.000	0.3221	08	200.000	0.3528

| **1,2,4-Trichlorobenzene** | Average RF | | RSD = 6.5 | Average RF = 1.361 | |

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	1.000	1.386	02	2.000	1.299	03	5.000	1.205	04	20.000	1.371
05	50.000	1.366	06	100.000	1.316	07	150.000	1.476	08	200.000	1.467

| **1,2,4-Trimethylbenzene** | Average RF | | RSD = 4.4 | Average RF = 3.392 | |

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	1.000	3.234	02	2.000	3.238	03	5.000	3.247	04	20.000	3.347
05	50.000	3.451	06	100.000	3.609	07	150.000	3.455	08	200.000	3.555

| **1,2-Dibromo-3-chloropropane (DBCP)** | Quadratic | 1/X2 | COD = 0.9977 | $Y = 0.01798 X^2 + 0.1954 X + -6.621E-4$ | |

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	1.000	0.1701	02	2.000	0.1653	03	5.000	0.1893	04	20.000	0.1929
05	50.000	0.2255	06	100.000	0.2404	07	150.000	0.2527	08	200.000	0.2576

| **1,2-Dibromoethane** | Average RF | | RSD = 8.8 | Average RF = 0.3788 | |

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	1.000	0.3279	02	2.000	0.3317	03	5.000	0.3826	04	20.000	0.3802
05	50.000	0.3786	06	100.000	0.4060	07	150.000	0.4042	08	200.000	0.4192

| **1,2-Dichloro-1,1,2-trifluoroethane (CFC** | Average RF | | RSD = 4.9 | Average RF = 0.8198 | |

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	1.000	0.8921	02	2.000	0.8326	03	5.000	0.7750	04	20.000	0.7731
05	50.000	0.8074	06	100.000	0.8043	07	150.000	0.8564	08	200.000	0.8172

| **1,2-Dichlorobenzene** | Average RF | | RSD = 3.0 | Average RF = 1.840 | |

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	1.000	1.903	02	2.000	1.772	03	5.000	1.756	04	20.000	1.819
05	50.000	1.863	06	100.000	1.834	07	150.000	1.890	08	200.000	1.887

| **1,2-Dichloroethane** | Average RF | | RSD = 2.2 | Average RF = 0.4673 | |

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	1.000	0.4679	02	2.000	0.4606	03	5.000	0.4827	04	20.000	0.4525
05	50.000	0.4677	06	100.000	0.4785	07	150.000	0.4567	08	200.000	0.4721

| **1,2-Dichloroethane-d4** | Average RF | | RSD = 6.6 | Average RF = 0.3367 | |

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
03	10.000	0.3527	04	20.000	0.2993	05	50.000	0.3492	06	100.000	0.3482
07	200.000	0.3343									

| **1,2-Dichloropropane** | Average RF | | RSD = 6.3 | Average RF = 0.4163 | |

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	1.000	0.4115	02	2.000	0.3698	03	5.000	0.4252	04	20.000	0.4106
05	50.000	0.4305	06	100.000	0.3917	07	150.000	0.4477	08	200.000	0.4436

Initial Calibration - Detailed Report

Calibration ID:	RC1600076	**Instrument ID:**	R-MS-14
		Signal ID:	1

Analyte	Curve Fit	Weighting			
1,3,5-Trimethylbenzene	Average RF		RSD = 4.1	Average RF = 3.248	

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	1.000	3.141	02	2.000	3.130	03	5.000	3.081	04	20.000	3.254
05	50.000	3.215	06	100.000	3.478	07	150.000	3.333	08	200.000	3.354

1,3-Dichlorobenzene	Average RF		RSD = 3.7	Average RF = 1.887	

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	1.000	2.013	02	2.000	1.822	03	5.000	1.812	04	20.000	1.902
05	50.000	1.876	06	100.000	1.819	07	150.000	1.946	08	200.000	1.906

1,3-Dichloropropane	Average RF		RSD = 4.9	Average RF = 0.7213	

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	1.000	0.6756	02	2.000	0.6688	03	5.000	0.7452	04	20.000	0.7240
05	50.000	0.7587	06	100.000	0.7399	07	150.000	0.7030	08	200.000	0.7552

1,4-Dichlorobenzene	Average RF		RSD = 3.2	Average RF = 1.953	

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	1.000	2.075	02	2.000	1.993	03	5.000	1.876	04	20.000	1.917
05	50.000	1.938	06	100.000	1.910	07	150.000	1.990	08	200.000	1.924

1,4-Dioxane	Average RF		RSD = 12.6	Average RF = 0.006710	

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	20.000	0.004860	02	40.000	0.007444	03	100.000	0.007567	04	400.000	0.007082
05	1000.000	0.006767	06	2000.000	0.006976	07	3000.000	0.006416	08	4000.000	0.006568

1-Butanol	Average RF		RSD = 13.2	Average RF = 0.01491	

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	50.000	0.01501	02	100.000	0.01126	03	250.000	0.01366	04	1000.000	0.01466
05	2500.000	0.01527	06	5000.000	0.01499	07	7500.000	0.01640	08	10000.000	0.01805

2,2-Dichloro-1,1,1-trifluoroethane (CFC	Average RF		RSD = 4.4	Average RF = 0.9444	

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	1.000	1.005	02	2.000	0.9561	03	5.000	0.9165	04	20.000	0.8765
05	50.000	0.9263	06	100.000	0.9287	07	150.000	0.9897	08	200.000	0.9560

2,2-Dichloropropane	Average RF		RSD = 11.4	Average RF = 0.6977	

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	1.000	0.6574	02	2.000	0.6328	03	5.000	0.6322	04	20.000	0.6256
05	50.000	0.6844	06	100.000	0.7209	07	150.000	0.8353	08	200.000	0.7925

2-Butanone (MEK)	Average RF		RSD = 10.9	Average RF = 0.4066	

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	1.000	0.5106	02	2.000	0.4062	03	5.000	0.3971	04	20.000	0.3761
05	50.000	0.4151	06	100.000	0.3886	07	150.000	0.3746	08	200.000	0.3845

2-Chloro-1,3-butadiene	Average RF		RSD = 6.5	Average RF = 0.9550	

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	1.000	0.9802	02	2.000	0.9064	03	5.000	0.8862	04	20.000	0.8868
05	50.000	1.007	06	100.000	0.9941	07	150.000	1.054	08	200.000	0.9255

2-Chloroethyl Vinyl Ether	Average RF		RSD = 10.6	Average RF = 0.2244	

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	1.000	0.1735	02	2.000	0.2150	03	5.000	0.2259	04	20.000	0.2262
05	50.000	0.2314	06	100.000	0.2449	07	150.000	0.2246	08	200.000	0.2533

Initial Calibration - Detailed Report

Calibration ID:	RC1600076	**Instrument ID:**	R-MS-14
		Signal ID:	1

Analyte	Curve Fit	Weighting									
2-Chlorotoluene	Average RF				RSD = 5.3		Average RF = 2.748				
#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	1.000	2.644	02	2.000	2.739	03	5.000	2.653	04	20.000	2.699
05	50.000	2.567	06	100.000	3.021	07	150.000	2.774	08	200.000	2.885
2-Hexanone	Average RF				RSD = 12.7		Average RF = 0.3370				
#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	1.000	0.2959	02	2.000	0.2618	03	5.000	0.3472	04	20.000	0.3469
05	50.000	0.3806	06	100.000	0.3683	07	150.000	0.3145	08	200.000	0.3809
2-Methyl-1-propanol	Average RF				RSD = 10.6		Average RF = 0.02268				
#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	20.000	0.01856	02	40.000	0.01981	03	100.000	0.02381	04	400.000	0.02183
05	1000.000	0.02352	06	2000.000	0.02464	07	3000.000	0.02383	08	4000.000	0.02543
2-Methyl-2-propanol	Average RF				RSD = 6.0		Average RF = 0.09288				
#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	20.000	0.09478	02	40.000	0.08166	03	100.000	0.09630	04	400.000	0.08825
05	1000.000	0.09361	06	2000.000	0.09572	07	3000.000	0.09316	08	4000.000	0.09959
2-Nitropropane	Average RF				RSD = 5.0		Average RF = 0.07769				
#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
02	4.000	0.08156	03	10.000	0.07225	04	40.000	0.07964	05	100.000	0.07264
06	200.000	0.07755	07	300.000	0.07831	08	400.000	0.08186			
2-Propanol	Average RF				RSD = 11.2		Average RF = 0.05980				
#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	20.000	0.07494	02	40.000	0.05498	03	100.000	0.06230	04	400.000	0.06016
05	1000.000	0.05564	06	2000.000	0.05735	07	3000.000	0.05436	08	4000.000	0.05867
3-Chloro-1-propene	Average RF				RSD = 5.9		Average RF = 0.3604				
#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	1.000	0.3913	02	2.000	0.3750	03	5.000	0.3258	04	20.000	0.3539
05	50.000	0.3544	06	100.000	0.3535	07	150.000	0.3822	08	200.000	0.3471
4-Bromofluorobenzene	Average RF				RSD = 13.3		Average RF = 0.4493				
#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
03	10.000	0.5258	04	20.000	0.3759	05	50.000	0.4371	06	100.000	0.4916
07	200.000	0.4163									
4-Chlorotoluene	Average RF				RSD = 3.1		Average RF = 3.315				
#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	1.000	3.319	02	2.000	3.296	03	5.000	3.188	04	20.000	3.277
05	50.000	3.282	06	100.000	3.549	07	150.000	3.295	08	200.000	3.310
4-Isopropyltoluene	Average RF				RSD = 4.8		Average RF = 3.515				
#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	1.000	3.515	02	2.000	3.316	03	5.000	3.273	04	20.000	3.457
05	50.000	3.604	06	100.000	3.516	07	150.000	3.772	08	200.000	3.666
4-Methyl-2-pentanone	Average RF				RSD = 8.7		Average RF = 0.3910				
#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	1.000	0.3405	02	2.000	0.3569	03	5.000	0.3993	04	20.000	0.3666
05	50.000	0.4269	06	100.000	0.3862	07	150.000	0.4232	08	200.000	0.4281

Initial Calibration - Detailed Report

Calibration ID: RC1600076 **Instrument ID:** R-MS-14
Signal ID: 1

Analyte	Curve Fit	Weighting		
Acetone	Linear	1/X2	R2 = 0.9900	Y = 0.2612 X + 0.01232

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
03	5.000	0.3796	04	20.000	0.3030	05	50.000	0.3136	06	100.000	0.2437
07	150.000	0.2440	08	200.000	0.2632						

Acetonitrile	Average RF	RSD = 13.7	Average RF = 0.05251

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
02	10.000	0.06312	03	25.000	0.06245	04	100.000	0.04571	05	250.000	0.05040
06	500.000	0.04835	07	750.000	0.04806	08	1000.000	0.04947			

Acrolein	Average RF	RSD = 3.0	Average RF = 0.1513

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	5.000	0.1501	02	10.000	0.1443	03	25.000	0.1498	04	100.000	0.1524
05	250.000	0.1594	06	500.000	0.1546	07	750.000	0.1474	08	1000.000	0.1521

Acrylonitrile	Average RF	RSD = 2.4	Average RF = 0.3105

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	5.000	0.3020	02	10.000	0.3052	03	25.000	0.3119	04	100.000	0.3087
05	250.000	0.3261	06	500.000	0.3131	07	750.000	0.3049	08	1000.000	0.3122

Benzene	Average RF	RSD = 3.6	Average RF = 1.594

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	1.000	1.717	02	2.000	1.531	03	5.000	1.604	04	20.000	1.579
05	50.000	1.541	06	100.000	1.619	07	150.000	1.588	08	200.000	1.572

Bromobenzene	Average RF	RSD = 3.6	Average RF = 0.9869

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	1.000	0.9724	02	2.000	0.9388	03	5.000	0.9422	04	20.000	1.007
05	50.000	0.9853	06	100.000	1.047	07	150.000	0.9977	08	200.000	1.005

Bromochloromethane	Average RF	RSD = 3.1	Average RF = 0.4061

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	1.000	0.4236	02	2.000	0.4232	03	5.000	0.3993	04	20.000	0.4057
05	50.000	0.4123	06	100.000	0.3970	07	150.000	0.3975	08	200.000	0.3901

Bromodichloromethane	Average RF	RSD = 7.0	Average RF = 0.4615

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	1.000	0.4406	02	2.000	0.4242	03	5.000	0.4439	04	20.000	0.4264
05	50.000	0.4701	06	100.000	0.4819	07	150.000	0.5058	08	200.000	0.4988

Bromoform	Average RF	RSD = 14.2	Average RF = 0.2178

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	1.000	0.1782	02	2.000	0.1919	03	5.000	0.1924	04	20.000	0.1994
05	50.000	0.2267	06	100.000	0.2468	07	150.000	0.2574	08	200.000	0.2496

Bromomethane	Quadratic	1/X2	COD = 0.9933	$Y = -0.08547 X^2 + 0.5735 X + 0.002491$

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	1.000	0.7448	02	2.000	0.5383	03	5.000	0.5677	04	20.000	0.5883
05	50.000	0.5360	06	100.000	0.3992	07	150.000	0.3017			

Carbon Disulfide	Average RF	RSD = 9.5	Average RF = 1.648

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	1.000	1.720	02	2.000	1.531	03	5.000	1.405	04	20.000	1.500
05	50.000	1.729	06	100.000	1.734	07	150.000	1.881	08	200.000	1.685

Initial Calibration - Detailed Report

Calibration ID:	RC1600076	**Instrument ID:**	R-MS-14
		Signal ID:	1

Analyte	**Curve Fit**	**Weighting**

Carbon Tetrachloride — Average RF — RSD = 10.0 — Average RF = 0.1134

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	1.000	0.09834	02	2.000	0.1050	03	5.000	0.1112	04	20.000	0.1083
05	50.000	0.1071	06	100.000	0.1209	07	150.000	0.1324	08	200.000	0.1236

Chlorobenzene — Average RF — RSD = 1.1 — Average RF = 1.190

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	1.000	1.198	02	2.000	1.186	03	5.000	1.174	04	20.000	1.207
05	50.000	1.181	06	100.000	1.177	07	150.000	1.209	08	200.000	1.188

Chloroethane — Average RF — RSD = 10.7 — Average RF = 0.4815

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	1.000	0.4744	02	2.000	0.3951	03	5.000	0.4134	04	20.000	0.4954
05	50.000	0.5135	06	100.000	0.5064	07	150.000	0.5426	08	200.000	0.5110

Chloroform — Average RF — RSD = 3.5 — Average RF = 1.100

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	1.000	1.147	02	2.000	1.078	03	5.000	1.054	04	20.000	1.085
05	50.000	1.122	06	100.000	1.081	07	150.000	1.162	08	200.000	1.073

Chloromethane — Average RF — RSD = 6.6 — Average RF = 0.9319

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	1.000	1.048	02	2.000	0.8952	03	5.000	0.8321	04	20.000	0.9607
05	50.000	0.9371	06	100.000	0.9132	07	150.000	0.9536	08	200.000	0.9154

Cyclohexane — Average RF — RSD = 4.0 — Average RF = 0.3574

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	1.000	0.3689	02	2.000	0.3598	03	5.000	0.3631	04	20.000	0.3268
05	50.000	0.3493	06	100.000	0.3565	07	150.000	0.3722	08	200.000	0.3623

Cyclohexanone — Average RF — RSD = 9.5 — Average RF = 0.09243

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	20.000	0.08112	02	40.000	0.08311	03	100.000	0.1061	04	400.000	0.08801
05	1000.000	0.1020	06	2000.000	0.09709	07	3000.000	0.09026	08	4000.000	0.09174

Dibromochloromethane — Average RF — RSD = 14.1 — Average RF = 0.3645

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	1.000	0.3011	02	2.000	0.2969	03	5.000	0.3193	04	20.000	0.3683
05	50.000	0.3988	06	100.000	0.3972	07	150.000	0.4112	08	200.000	0.4236

Dibromofluoromethane — Average RF — RSD = 7.9 — Average RF = 0.2986

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
03	10.000	0.2937	04	20.000	0.2600	05	50.000	0.3078	06	100.000	0.3182
07	200.000	0.3133									

Dibromomethane — Average RF — RSD = 2.9 — Average RF = 0.2392

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	1.000	0.2372	02	2.000	0.2250	03	5.000	0.2421	04	20.000	0.2365
05	50.000	0.2423	06	100.000	0.2396	07	150.000	0.2432	08	200.000	0.2481

Dichlorodifluoromethane (CFC 12) — Average RF — RSD = 10.3 — Average RF = 0.7634

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	1.000	0.7472	02	2.000	0.7286	03	5.000	0.5995	04	20.000	0.7898
05	50.000	0.7848	06	100.000	0.7958	07	150.000	0.8726	08	200.000	0.7891

Initial Calibration - Detailed Report

Calibration ID:	RC1600076	**Instrument ID:**	R-MS-14
		Signal ID:	1

Analyte	Curve Fit	Weighting									
Dichlorofluoromethane (CFC 21)	Average RF			RSD = 7.0			Average RF = 1.186				
#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	1.000	1.209	02	2.000	1.028	03	5.000	1.104	04	20.000	1.172
05	50.000	1.247	06	100.000	1.228	07	150.000	1.286	08	200.000	1.212
Dichloromethane	Average RF			RSD = 2.6			Average RF = 0.7136				
#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	1.000	0.7175	02	2.000	0.7521	03	5.000	0.6960	04	20.000	0.7193
05	50.000	0.7185	06	100.000	0.6923	07	150.000	0.7091	08	200.000	0.7042
Diethyl Ether	Average RF			RSD = 2.3			Average RF = 0.6186				
#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	1.000	0.6328	02	2.000	0.6135	03	5.000	0.6030	04	20.000	0.5934
05	50.000	0.6256	06	100.000	0.6219	07	150.000	0.6271	08	200.000	0.6314
Diisopropyl Ether	Average RF			RSD = 5.8			Average RF = 2.157				
#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	1.000	2.127	02	2.000	2.032	03	5.000	2.043	04	20.000	2.026
05	50.000	2.193	06	100.000	2.166	07	150.000	2.344	08	200.000	2.324
Ethyl Methacrylate	Average RF			RSD = 14.4			Average RF = 0.5225				
#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	1.000	0.4354	02	2.000	0.4300	03	5.000	0.4848	04	20.000	0.5112
05	50.000	0.5572	06	100.000	0.5744	07	150.000	0.5295	08	200.000	0.6573
Ethyl tert-Butyl Ether	Average RF			RSD = 7.3			Average RF = 1.878				
#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	1.000	1.792	02	2.000	1.784	03	5.000	1.805	04	20.000	1.708
05	50.000	1.884	06	100.000	1.900	07	150.000	2.056	08	200.000	2.097
Ethylbenzene	Average RF			RSD = 3.6			Average RF = 0.6227				
#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	1.000	0.5917	02	2.000	0.5983	03	5.000	0.6142	04	20.000	0.6312
05	50.000	0.6283	06	100.000	0.6148	07	150.000	0.6565	08	200.000	0.6469
Hexachlorobutadiene	Average RF			RSD = 7.3			Average RF = 0.6884				
#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	1.000	0.7502	02	2.000	0.6854	03	5.000	0.6031	04	20.000	0.6846
05	50.000	0.6672	06	100.000	0.6478	07	150.000	0.7413	08	200.000	0.7280
Iodomethane	Average RF			RSD = 57.9			Average RF = 0.3348				
#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
03	5.000	0.06266	04	20.000	0.1296	05	50.000	0.3574	06	100.000	0.4507
07	150.000	0.5133	08	200.000	0.4951						
Isopropylbenzene (Cumene)	Average RF			RSD = 3.6			Average RF = 1.918				
#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	1.000	1.913	02	2.000	1.896	03	5.000	1.927	04	20.000	1.781
05	50.000	1.918	06	100.000	1.955	07	150.000	2.030	08	200.000	1.923
Methacrylonitrile	Average RF			RSD = 7.4			Average RF = 0.3175				
#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	1.000	0.3103	02	2.000	0.2717	03	5.000	0.3053	04	20.000	0.3104
05	50.000	0.3469	06	100.000	0.3333	07	150.000	0.3307	08	200.000	0.3313

Initial Calibration - Detailed Report

Calibration ID: RC1600076 **Instrument ID:** R-MS-14
Signal ID: 1

Analyte	Curve Fit	Weighting

Methyl Acetate Average RF RSD = 3.7 Average RF = 0.5649

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	1.000	0.5925	02	2.000	0.5234	03	5.000	0.5622	04	20.000	0.5744
05	50.000	0.5793	06	100.000	0.5662	07	150.000	0.5518	08	200.000	0.5690

Methyl Methacrylate Average RF RSD = 11.9 Average RF = 0.2996

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	1.000	0.2296	02	2.000	0.2800	03	5.000	0.2878	04	20.000	0.2927
05	50.000	0.3148	06	100.000	0.3250	07	150.000	0.3225	08	200.000	0.3446

Methyl tert-Butyl Ether Average RF RSD = 5.1 Average RF = 1.882

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	1.000	1.734	02	2.000	1.787	03	5.000	1.838	04	20.000	1.851
05	50.000	1.930	06	100.000	1.926	07	150.000	1.970	08	200.000	2.020

Methylcyclohexane Average RF RSD = 8.0 Average RF = 0.5643

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	1.000	0.6356	02	2.000	0.5580	03	5.000	0.5517	04	20.000	0.5160
05	50.000	0.5667	06	100.000	0.4976	07	150.000	0.6065	08	200.000	0.5823

Naphthalene Average RF RSD = 12.5 Average RF = 3.510

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	1.000	3.152	02	2.000	2.801	03	5.000	3.195	04	20.000	3.460
05	50.000	3.758	06	100.000	3.661	07	150.000	4.058	08	200.000	3.995

Propionitrile Average RF RSD = 7.1 Average RF = 0.1194

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	5.000	0.1240	02	10.000	0.1016	03	25.000	0.1283	04	100.000	0.1161
05	250.000	0.1268	06	500.000	0.1226	07	750.000	0.1177	08	1000.000	0.1183

Styrene Average RF RSD = 6.7 Average RF = 1.292

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	1.000	1.173	02	2.000	1.202	03	5.000	1.241	04	20.000	1.241
05	50.000	1.351	06	100.000	1.383	07	150.000	1.367	08	200.000	1.376

Tetrachloroethene (PCE) Average RF RSD = 5.0 Average RF = 0.3179

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	1.000	0.3078	02	2.000	0.3346	03	5.000	0.3235	04	20.000	0.3069
05	50.000	0.3034	06	100.000	0.3063	07	150.000	0.3479	08	200.000	0.3132

Tetrahydrofuran (THF) Average RF RSD = 6.7 Average RF = 0.2362

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	1.000	0.2386	02	2.000	0.2110	03	5.000	0.2436	04	20.000	0.2176
05	50.000	0.2581	06	100.000	0.2501	07	150.000	0.2387	08	200.000	0.2321

Toluene Average RF RSD = 3.2 Average RF = 1.624

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	1.000	1.637	02	2.000	1.555	03	5.000	1.662	04	20.000	1.583
05	50.000	1.653	06	100.000	1.635	07	150.000	1.567	08	200.000	1.702

Toluene-d8 Average RF RSD = 7.7 Average RF = 1.223

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
03	10.000	1.321	04	20.000	1.091	05	50.000	1.274	06	100.000	1.268
07	200.000	1.159									

Initial Calibration - Detailed Report

Calibration ID:	RC1600076	**Instrument ID:**	R-MS-14
		Signal ID:	1

Analyte	**Curve Fit**	**Weighting**

Trichloroethene (TCE) — Average RF — RSD = 3.0 — Average RF = 0.3712

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	1.000	0.3766	02	2.000	0.3727	03	5.000	0.3684	04	20.000	0.3539
05	50.000	0.3624	06	100.000	0.3710	07	150.000	0.3923	08	200.000	0.3723

Trichlorofluoromethane (CFC 11) — Average RF — RSD = 4.9 — Average RF = 0.7734

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	1.000	0.8142	02	2.000	0.7652	03	5.000	0.7285	04	20.000	0.7664
05	50.000	0.7449	06	100.000	0.7663	07	150.000	0.8445	08	200.000	0.7569

Vinyl Acetate — Average RF — RSD = 10.3 — Average RF = 0.1439

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	1.000	0.1291	02	2.000	0.1341	03	5.000	0.1234	04	20.000	0.1438
05	50.000	0.1419	06	100.000	0.1542	07	150.000	0.1637	08	200.000	0.1613

Vinyl Chloride — Average RF — RSD = 5.2 — Average RF = 0.8831

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	1.000	0.9064	02	2.000	0.8379	03	5.000	0.8085	04	20.000	0.9045
05	50.000	0.8758	06	100.000	0.8913	07	150.000	0.9596	08	200.000	0.8810

cis-1,2-Dichloroethene — Average RF — RSD = 3.0 — Average RF = 0.7284

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	1.000	0.7224	02	2.000	0.7010	03	5.000	0.7170	04	20.000	0.7028
05	50.000	0.7411	06	100.000	0.7341	07	150.000	0.7638	08	200.000	0.7450

cis-1,3-Dichloropropene — Average RF — RSD = 12.9 — Average RF = 0.5828

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	1.000	0.4656	02	2.000	0.5091	03	5.000	0.5331	04	20.000	0.5665
05	50.000	0.6222	06	100.000	0.6421	07	150.000	0.6656	08	200.000	0.6586

m,p-Xylenes — Average RF — RSD = 5.0 — Average RF = 0.7558

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.000	0.6879	02	4.000	0.7433	03	10.000	0.7252	04	40.000	0.7573
05	100.000	0.7644	06	200.000	0.7648	07	300.000	0.8092	08	400.000	0.7943

n-Butyl Acetate — Average RF — RSD = 13.3 — Average RF = 0.6822

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	1.000	0.6018	02	2.000	0.5392	03	5.000	0.6682	04	20.000	0.6513
05	50.000	0.7297	06	100.000	0.7433	07	150.000	0.6887	08	200.000	0.8353

n-Butylbenzene — Average RF — RSD = 5.7 — Average RF = 3.504

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	1.000	3.410	02	2.000	3.333	03	5.000	3.251	04	20.000	3.419
05	50.000	3.689	06	100.000	3.582	07	150.000	3.865	08	200.000	3.484

n-Heptane — Average RF — RSD = 7.2 — Average RF = 0.5433

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	1.000	0.6098	02	2.000	0.5311	03	5.000	0.4777	04	20.000	0.5431
05	50.000	0.5441	06	100.000	0.5131	07	150.000	0.5672	08	200.000	0.5602

n-Propylbenzene — Average RF — RSD = 4.0 — Average RF = 4.842

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	1.000	4.879	02	2.000	4.763	03	5.000	4.623	04	20.000	4.640
05	50.000	4.910	06	100.000	5.224	07	150.000	4.947	08	200.000	4.751

Initial Calibration - Detailed Report

Calibration ID:	RC1600076	**Instrument ID:**	R-MS-14
		Signal ID:	1

Analyte	**Curve Fit**	**Weighting**

o-Xylene — Average RF — RSD = 3.7 — Average RF = 0.7587

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	1.000	0.7183	02	2.000	0.7118	03	5.000	0.7671	04	20.000	0.7644
05	50.000	0.7624	06	100.000	0.7824	07	150.000	0.7883	08	200.000	0.7745

sec-Butylbenzene — Average RF — RSD = 3.4 — Average RF = 4.389

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	1.000	4.399	02	2.000	4.252	03	5.000	4.195	04	20.000	4.249
05	50.000	4.373	06	100.000	4.510	07	150.000	4.524	08	200.000	4.612

tert-Amyl Methyl Ether — Average RF — RSD = 7.8 — Average RF = 1.687

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	1.000	1.447	02	2.000	1.659	03	5.000	1.639	04	20.000	1.616
05	50.000	1.714	06	100.000	1.722	07	150.000	1.823	08	200.000	1.872

tert-Butylbenzene — Average RF — RSD = 3.8 — Average RF = 2.771

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	1.000	2.738	02	2.000	2.694	03	5.000	2.638	04	20.000	2.715
05	50.000	2.718	06	100.000	2.942	07	150.000	2.853	08	200.000	2.870

trans-1,2-Dichloroethene — Average RF — RSD = 3.7 — Average RF = 0.6698

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	1.000	0.7183	02	2.000	0.6689	03	5.000	0.6455	04	20.000	0.6677
05	50.000	0.6537	06	100.000	0.6488	07	150.000	0.6954	08	200.000	0.6602

trans-1,3-Dichloropropene — Average RF — RSD = 14.9 — Average RF = 0.4667

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	1.000	0.4106	02	2.000	0.3590	03	5.000	0.4223	04	20.000	0.4484
05	50.000	0.4998	06	100.000	0.5269	07	150.000	0.4929	08	200.000	0.5738

trans-1,4-Dichloro-2-butene — Average RF — RSD = 10.6 — Average RF = 0.1279

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	1.000	0.1048	02	2.000	0.1209	03	5.000	0.1385	04	20.000	0.1139
05	50.000	0.1332	06	100.000	0.1437	07	150.000	0.1298	08	200.000	0.1385

Initial Calibration - Detailed Report

Calibration ID:	RC1600076	**Instrument ID:**	R-MS-14
		Signal ID:	1

Analyte

1,1,1,2-Tetrachloroethane

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	1.000	1.00	-0.4	02	2.000	1.73	-13.3	03	5.000	4.44	-11.2
04	20.000	19.68	-1.6	05	50.000	50.77	1.5	06	100.000	105.48	5.5
07	150.000	165.26	10.2	08	200.000	218.49	9.2				

1,1,1-Trichloroethane (TCA)

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	1.000	0.99	-1.2	02	2.000	1.86	-6.9	03	5.000	4.71	-5.8
04	20.000	19.04	-4.8	05	50.000	49.53	-0.9	06	100.000	102.08	2.1
07	150.000	167.79	11.9	08	200.000	211.34	5.7				

1,1,2,2-Tetrachloroethane

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	1.000	0.94	-6.1	02	2.000	1.83	-8.5	03	5.000	4.90	-2.0
04	20.000	18.97	-5.2	05	50.000	52.53	5.1	06	100.000	114.19	14.2
07	150.000	144.73	-3.5	08	200.000	212.08	6.0				

1,1,2-Trichloroethane

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	1.000	0.92	-7.8	02	2.000	1.90	-4.8	03	5.000	4.88	-2.4
04	20.000	20.24	1.2	05	50.000	52.43	4.9	06	100.000	103.46	3.5
07	150.000	142.14	-5.2	08	200.000	221.57	10.8				

1,1,2-Trichlorotrifluoroethane

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	1.000	0.98	-1.7	02	2.000	2.13	6.5	03	5.000	5.01	0.1
04	20.000	18.97	-5.2	05	50.000	46.97	-6.1	06	100.000	96.99	-3.0
07	150.000	164.91	9.9	08	200.000	198.71	-0.6				

1,1-Dichloroethane (1,1-DCA)

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	1.000	1.02	1.8	02	2.000	1.91	-4.3	03	5.000	4.76	-4.8
04	20.000	19.98	-0.1	05	50.000	50.01	0.0	06	100.000	100.43	0.4
07	150.000	157.88	5.3	08	200.000	203.26	1.6				

1,1-Dichloroethene (1,1-DCE)

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	1.000	0.93	-6.7	02	2.000	2.12	6.1	03	5.000	4.80	-4.0
04	20.000	19.95	-0.2	05	50.000	48.77	-2.5	06	100.000	99.77	-0.2
07	150.000	161.43	7.6	08	200.000	199.82	-0.1				

1,1-Dichloropropene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	1.000	1.03	2.8	02	2.000	1.99	-0.3	03	5.000	5.08	1.6
04	20.000	18.85	-5.7	05	50.000	47.08	-5.8	06	100.000	99.02	-1.0
07	150.000	161.69	7.8	08	200.000	201.26	0.6				

Initial Calibration - Detailed Report

Calibration ID:	RC1600076	**Instrument ID:**	R-MS-14
		Signal ID:	1

Analyte

1,2,3-Trichlorobenzene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	1.000	0.97	-3.3	02	2.000	1.77	-11.6	03	5.000	4.62	-7.7
04	20.000	20.33	1.6	05	50.000	50.89	1.8	06	100.000	99.13	-0.9
07	150.000	165.05	10.0	08	200.000	219.91	10.0				

1,2,3-Trichloropropane

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	1.000	0.82	-17.7	02	2.000	1.98	-1.1	03	5.000	4.68	-6.4
04	20.000	19.78	-1.1	05	50.000	53.49	7.0	06	100.000	113.74	13.7
07	150.000	147.14	-1.9	08	200.000	214.89	7.4				

1,2,4-Trichlorobenzene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	1.000	1.02	1.9	02	2.000	1.91	-4.5	03	5.000	4.43	-11.4
04	20.000	20.15	0.7	05	50.000	50.19	0.4	06	100.000	96.73	-3.3
07	150.000	162.65	8.4	08	200.000	215.60	7.8				

1,2,4-Trimethylbenzene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	1.000	0.95	-4.7	02	2.000	1.91	-4.5	03	5.000	4.79	-4.3
04	20.000	19.73	-1.3	05	50.000	50.87	1.7	06	100.000	106.39	6.4
07	150.000	152.81	1.9	08	200.000	209.61	4.8				

1,2-Dibromo-3-chloropropane (DBCP)

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	1.000	1.04	3.8	02	2.000	1.85	-7.3	03	5.000	4.97	-0.6
04	20.000	19.23	-3.9	05	50.000	52.76	5.5	06	100.000	103.49	3.5
07	150.000	151.75	1.2	08	200.000	194.30	-2.9				

1,2-Dibromoethane

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	1.000	0.87	-13.4	02	2.000	1.75	-12.4	03	5.000	5.05	1.0
04	20.000	20.07	0.4	05	50.000	49.97	-0.1	06	100.000	107.17	7.2
07	150.000	160.08	6.7	08	200.000	221.34	10.7				

1,2-Dichloro-1,1,2-trifluoroethane (CFC

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	1.000	1.09	8.8	02	2.000	2.03	1.6	03	5.000	4.73	-5.5
04	20.000	18.86	-5.7	05	50.000	49.25	-1.5	06	100.000	98.11	-1.9
07	150.000	156.70	4.5	08	200.000	199.38	-0.3				

1,2-Dichlorobenzene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	1.000	1.03	3.4	02	2.000	1.93	-3.7	03	5.000	4.77	-4.6
04	20.000	19.76	-1.2	05	50.000	50.62	1.2	06	100.000	99.64	-0.4
07	150.000	154.03	2.7	08	200.000	205.02	2.5				

Initial Calibration - Detailed Report

Calibration ID:	RC1600076	**Instrument ID:**	R-MS-14
		Signal ID:	1

Analyte

1,2-Dichloroethane

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	1.000	1.00	0.1	02	2.000	1.97	-1.4	03	5.000	5.16	3.3
04	20.000	19.37	-3.2	05	50.000	50.04	0.1	06	100.000	102.39	2.4
07	150.000	146.60	-2.3	08	200.000	202.02	1.0				

1,2-Dichloroethane-d4

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
03	10.000	10.48	4.8	04	20.000	17.77	-11.1	05	50.000	51.85	3.7
06	100.000	103.41	3.4	07	200.000	198.53	-0.7				

1,2-Dichloropropane

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	1.000	0.99	-1.2	02	2.000	1.78	-11.2	03	5.000	5.11	2.1
04	20.000	19.72	-1.4	05	50.000	51.70	3.4	06	100.000	94.08	-5.9
07	150.000	161.31	7.5	08	200.000	213.11	6.6				

1,3,5-Trimethylbenzene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	1.000	0.97	-3.3	02	2.000	1.93	-3.6	03	5.000	4.74	-5.1
04	20.000	20.03	0.2	05	50.000	49.48	-1.0	06	100.000	107.07	7.1
07	150.000	153.91	2.6	08	200.000	206.50	3.3				

1,3-Dichlorobenzene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	1.000	1.07	6.7	02	2.000	1.93	-3.5	03	5.000	4.80	-4.0
04	20.000	20.15	0.8	05	50.000	49.72	-0.6	06	100.000	96.42	-3.6
07	150.000	154.67	3.1	08	200.000	202.00	1.0				

1,3-Dichloropropane

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	1.000	0.94	-6.3	02	2.000	1.85	-7.3	03	5.000	5.17	3.3
04	20.000	20.07	0.4	05	50.000	52.59	5.2	06	100.000	102.58	2.6
07	150.000	146.19	-2.5	08	200.000	209.40	4.7				

1,4-Dichlorobenzene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	1.000	1.06	6.3	02	2.000	2.04	2.0	03	5.000	4.80	-3.9
04	20.000	19.63	-1.8	05	50.000	49.61	-0.8	06	100.000	97.81	-2.2
07	150.000	152.88	1.9	08	200.000	197.01	-1.5				

1,4-Dioxane

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	20.000	14.49	-27.6	02	40.000	44.38	10.9	03	100.000	112.77	12.8
04	400.000	422.16	5.5	05	1000.000	1,008.53	0.9	06	2000.000	2,079.33	4.0
07	3000.000	2,868.73	-4.4	08	4000.000	3,915.25	-2.1				

Initial Calibration - Detailed Report

Calibration ID:	RC1600076	**Instrument ID:**	R-MS-14
		Signal ID:	1

Analyte

1-Butanol

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	50.000	50.33	0.7	02	100.000	75.51	-24.5	03	250.000	229.04	-8.4
04	1000.000	983.05	-1.7	05	2500.000	2,559.97	2.4	06	5000.000	5,027.02	0.5
07	7500.000	8,247.15	10.0	08	10000.000	12,101.87	21.0				

2,2-Dichloro-1,1,1-trifluoroethane (CFC

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	1.000	1.06	6.4	02	2.000	2.02	1.2	03	5.000	4.85	-3.0
04	20.000	18.56	-7.2	05	50.000	49.04	-1.9	06	100.000	98.34	-1.7
07	150.000	157.20	4.8	08	200.000	202.47	1.2				

2,2-Dichloropropane

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	1.000	0.94	-5.8	02	2.000	1.81	-9.3	03	5.000	4.53	-9.4
04	20.000	17.93	-10.3	05	50.000	49.05	-1.9	06	100.000	103.34	3.3
07	150.000	179.60	19.7	08	200.000	227.18	13.6				

2-Butanone (MEK)

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	1.000	1.26	25.6	02	2.000	2.00	-0.1	03	5.000	4.88	-2.3
04	20.000	18.50	-7.5	05	50.000	51.04	2.1	06	100.000	95.57	-4.4
07	150.000	138.21	-7.9	08	200.000	189.12	-5.4				

2-Chloro-1,3-butadiene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	1.000	1.03	2.6	02	2.000	1.90	-5.1	03	5.000	4.64	-7.2
04	20.000	18.57	-7.1	05	50.000	52.70	5.4	06	100.000	104.10	4.1
07	150.000	165.53	10.4	08	200.000	193.84	-3.1				

2-Chloroethyl Vinyl Ether

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	1.000	0.77	-22.7	02	2.000	1.92	-4.2	03	5.000	5.04	0.7
04	20.000	20.17	0.8	05	50.000	51.58	3.2	06	100.000	109.14	9.1
07	150.000	150.14	0.1	08	200.000	225.80	12.9				

2-Chlorotoluene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	1.000	0.96	-3.8	02	2.000	1.99	-0.3	03	5.000	4.83	-3.4
04	20.000	19.65	-1.8	05	50.000	46.72	-6.6	06	100.000	109.94	9.9
07	150.000	151.44	1.0	08	200.000	210.00	5.0				

2-Hexanone

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	1.000	0.88	-12.2	02	2.000	1.55	-22.3	03	5.000	5.15	3.0
04	20.000	20.58	2.9	05	50.000	56.47	12.9	06	100.000	109.28	9.3
07	150.000	140.00	-6.7	08	200.000	226.04	13.0				

Initial Calibration - Detailed Report

Calibration ID:	RC1600076	**Instrument ID:**	R-MS-14
		Signal ID:	1

Analyte

2-Methyl-1-propanol

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	20.000	16.37	-18.2	02	40.000	34.95	-12.6	03	100.000	104.97	5.0
04	400.000	385.00	-3.8	05	1000.000	1,037.07	3.7	06	2000.000	2,172.99	8.6
07	3000.000	3,152.50	5.1	08	4000.000	4,485.57	12.1				

2-Methyl-2-propanol

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	20.000	20.41	2.0	02	40.000	35.17	-12.1	03	100.000	103.68	3.7
04	400.000	380.03	-5.0	05	1000.000	1,007.82	0.8	06	2000.000	2,061.07	3.1
07	3000.000	3,008.81	0.3	08	4000.000	4,288.78	7.2				

2-Nitropropane

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
02	4.000	4.20	5.0	03	10.000	9.30	-7.0	04	40.000	41.00	2.5
05	100.000	93.51	-6.5	06	200.000	199.64	-0.2	07	300.000	302.42	0.8
08	400.000	421.49	5.4								

2-Propanol

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	20.000	25.06	25.3	02	40.000	36.78	-8.1	03	100.000	104.18	4.2
04	400.000	402.40	0.6	05	1000.000	930.43	-7.0	06	2000.000	1,918.06	-4.1
07	3000.000	2,727.25	-9.1	08	4000.000	3,924.40	-1.9				

3-Chloro-1-propene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	1.000	1.09	8.6	02	2.000	2.08	4.0	03	5.000	4.52	-9.6
04	20.000	19.64	-1.8	05	50.000	49.16	-1.7	06	100.000	98.09	-1.9
07	150.000	159.08	6.1	08	200.000	192.63	-3.7				

4-Bromofluorobenzene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
03	10.000	11.70	17.0	04	20.000	16.73	-16.3	05	50.000	48.63	-2.7
06	100.000	109.41	9.4	07	200.000	185.30	-7.3				

4-Chlorotoluene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	1.000	1.00	0.1	02	2.000	1.99	-0.6	03	5.000	4.81	-3.8
04	20.000	19.78	-1.1	05	50.000	49.51	-1.0	06	100.000	107.08	7.1
07	150.000	149.10	-0.6	08	200.000	199.76	-0.1				

4-Isopropyltoluene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	1.000	1.00	0.0	02	2.000	1.89	-5.6	03	5.000	4.66	-6.9
04	20.000	19.67	-1.7	05	50.000	51.27	2.5	06	100.000	100.03	0.0
07	150.000	160.96	7.3	08	200.000	208.58	4.3				

Initial Calibration - Detailed Report

Calibration ID:	RC1600076	**Instrument ID:**	R-MS-14
		Signal ID:	1

Analyte

4-Methyl-2-pentanone

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	1.000	0.87	-12.9	02	2.000	1.83	-8.7	03	5.000	5.11	2.1
04	20.000	18.76	-6.2	05	50.000	54.60	9.2	06	100.000	98.78	-1.2
07	150.000	162.37	8.2	08	200.000	219.00	9.5				

Acetone

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
03	5.000	4.91	-1.8	04	20.000	20.84	4.2	05	50.000	57.66	15.3
06	100.000	90.92	-9.1	07	150.000	137.76	-8.2	08	200.000	199.14	-0.4

Acetonitrile

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
02	10.000	12.02	20.2	03	25.000	29.73	18.9	04	100.000	87.05	-13.0
05	250.000	239.95	-4.0	06	500.000	460.41	-7.9	07	750.000	686.54	-8.5
08	1000.000	942.11	-5.8								

Acrolein

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	5.000	4.96	-0.8	02	10.000	9.54	-4.6	03	25.000	24.77	-0.9
04	100.000	100.73	0.7	05	250.000	263.41	5.4	06	500.000	511.15	2.2
07	750.000	730.86	-2.6	08	1000.000	1,005.29	0.5				

Acrylonitrile

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	5.000	4.86	-2.7	02	10.000	9.83	-1.7	03	25.000	25.11	0.4
04	100.000	99.42	-0.6	05	250.000	262.52	5.0	06	500.000	504.11	0.8
07	750.000	736.37	-1.8	08	1000.000	1,005.52	0.6				

Benzene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	1.000	1.08	7.7	02	2.000	1.92	-4.0	03	5.000	5.03	0.6
04	20.000	19.81	-0.9	05	50.000	48.34	-3.3	06	100.000	101.58	1.6
07	150.000	149.42	-0.4	08	200.000	197.26	-1.4				

Bromobenzene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	1.000	0.99	-1.5	02	2.000	1.90	-4.9	03	5.000	4.77	-4.5
04	20.000	20.40	2.0	05	50.000	49.92	-0.2	06	100.000	106.09	6.1
07	150.000	151.64	1.1	08	200.000	203.64	1.8				

Bromochloromethane

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	1.000	1.04	4.3	02	2.000	2.08	4.2	03	5.000	4.92	-1.7
04	20.000	19.98	-0.1	05	50.000	50.76	1.5	06	100.000	97.76	-2.2
07	150.000	146.84	-2.1	08	200.000	192.13	-3.9				

Initial Calibration - Detailed Report

Calibration ID:	RC1600076	**Instrument ID:**	R-MS-14
		Signal ID:	1

Analyte

Bromodichloromethane

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	1.000	0.95	-4.5	02	2.000	1.84	-8.1	03	5.000	4.81	-3.8
04	20.000	18.48	-7.6	05	50.000	50.94	1.9	06	100.000	104.43	4.4
07	150.000	164.40	9.6	08	200.000	216.20	8.1				

Bromoform

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	1.000	0.82	-18.2	02	2.000	1.76	-11.9	03	5.000	4.42	-11.7
04	20.000	18.31	-8.4	05	50.000	52.03	4.1	06	100.000	113.32	13.3
07	150.000	177.28	18.2	08	200.000	229.20	14.6				

Bromomethane

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	1.000	1.09	8.5	02	2.000	1.67	-16.6	03	5.000	4.80	-4.0
04	20.000	21.70	8.5	05	50.000	55.80	11.6	06	100.000	98.07	-1.9
07	150.000	126.06	-16.0								

Carbon Disulfide

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	1.000	1.04	4.3	02	2.000	1.86	-7.1	03	5.000	4.26	-14.8
04	20.000	18.20	-9.0	05	50.000	52.45	4.9	06	100.000	105.23	5.2
07	150.000	171.21	14.1	08	200.000	204.53	2.3				

Carbon Tetrachloride

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	1.000	0.87	-13.3	02	2.000	1.85	-7.4	03	5.000	4.91	-1.9
04	20.000	19.11	-4.5	05	50.000	47.23	-5.5	06	100.000	106.67	6.7
07	150.000	175.26	16.8	08	200.000	218.12	9.1				

Chlorobenzene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	1.000	1.01	0.7	02	2.000	1.99	-0.3	03	5.000	4.93	-1.4
04	20.000	20.29	1.5	05	50.000	49.64	-0.7	06	100.000	98.87	-1.1
07	150.000	152.45	1.6	08	200.000	199.57	-0.2				

Chloroethane

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	1.000	0.99	-1.5	02	2.000	1.64	-17.9	03	5.000	4.29	-14.1
04	20.000	20.58	2.9	05	50.000	53.32	6.6	06	100.000	105.18	5.2
07	150.000	169.05	12.7	08	200.000	212.25	6.1				

Chloroform

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	1.000	1.04	4.3	02	2.000	1.96	-2.0	03	5.000	4.79	-4.2
04	20.000	19.72	-1.4	05	50.000	51.00	2.0	06	100.000	98.25	-1.8
07	150.000	158.37	5.6	08	200.000	194.97	-2.5				

Initial Calibration - Detailed Report

Calibration ID:	RC1600076	**Instrument ID:**	R-MS-14
		Signal ID:	1

Analyte

Chloromethane

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	1.000	1.12	12.4	02	2.000	1.92	-3.9	03	5.000	4.46	-10.7
04	20.000	20.62	3.1	05	50.000	50.28	0.6	06	100.000	98.00	-2.0
07	150.000	153.49	2.3	08	200.000	196.47	-1.8				

Cyclohexane

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	1.000	1.03	3.2	02	2.000	2.01	0.7	03	5.000	5.08	1.6
04	20.000	18.29	-8.5	05	50.000	48.87	-2.3	06	100.000	99.76	-0.2
07	150.000	156.24	4.2	08	200.000	202.75	1.4				

Cyclohexanone

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	20.000	17.55	-12.2	02	40.000	35.96	-10.1	03	100.000	114.79	14.8
04	400.000	380.87	-4.8	05	1000.000	1,103.90	10.4	06	2000.000	2,100.83	5.0
07	3000.000	2,929.35	-2.4	08	4000.000	3,969.83	-0.8				

Dibromochloromethane

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	1.000	0.83	-17.4	02	2.000	1.63	-18.5	03	5.000	4.38	-12.4
04	20.000	20.20	1.0	05	50.000	54.69	9.4	06	100.000	108.96	9.0
07	150.000	169.20	12.8	08	200.000	232.40	16.2				

Dibromofluoromethane

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
03	10.000	9.84	-1.6	04	20.000	17.41	-12.9	05	50.000	51.55	3.1
06	100.000	106.57	6.6	07	200.000	209.84	4.9				

Dibromomethane

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	1.000	0.99	-0.9	02	2.000	1.88	-6.0	03	5.000	5.06	1.2
04	20.000	19.77	-1.1	05	50.000	50.64	1.3	06	100.000	100.16	0.2
07	150.000	152.51	1.7	08	200.000	207.36	3.7				

Dichlorodifluoromethane (CFC 12)

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	1.000	0.98	-2.1	02	2.000	1.91	-4.6	03	5.000	3.93	-21.5
04	20.000	20.69	3.5	05	50.000	51.40	2.8	06	100.000	104.24	4.2
07	150.000	171.46	14.3	08	200.000	206.72	3.4				

Dichlorofluoromethane (CFC 21)

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	1.000	1.02	2.0	02	2.000	1.73	-13.3	03	5.000	4.66	-6.9
04	20.000	19.77	-1.2	05	50.000	52.58	5.2	06	100.000	103.60	3.6
07	150.000	162.63	8.4	08	200.000	204.37	2.2				

Initial Calibration - Detailed Report

Calibration ID:	RC1600076	**Instrument ID:**	R-MS-14
		Signal ID:	1

Analyte

Dichloromethane

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	1.000	1.01	0.5	02	2.000	2.11	5.4	03	5.000	4.88	-2.5
04	20.000	20.16	0.8	05	50.000	50.34	0.7	06	100.000	97.01	-3.0
07	150.000	149.05	-0.6	08	200.000	197.35	-1.3				

Diethyl Ether

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	1.000	1.02	2.3	02	2.000	1.98	-0.8	03	5.000	4.87	-2.5
04	20.000	19.19	-4.1	05	50.000	50.56	1.1	06	100.000	100.54	0.5
07	150.000	152.06	1.4	08	200.000	204.14	2.1				

Diisopropyl Ether

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	1.000	0.99	-1.4	02	2.000	1.88	-5.8	03	5.000	4.74	-5.3
04	20.000	18.79	-6.1	05	50.000	50.84	1.7	06	100.000	100.43	0.4
07	150.000	163.04	8.7	08	200.000	215.46	7.7				

Ethyl Methacrylate

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	1.000	0.83	-16.7	02	2.000	1.65	-17.7	03	5.000	4.64	-7.2
04	20.000	19.57	-2.2	05	50.000	53.32	6.6	06	100.000	109.93	9.9
07	150.000	152.01	1.3	08	200.000	251.60	25.8				

Ethyl tert-Butyl Ether

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	1.000	0.95	-4.6	02	2.000	1.90	-5.0	03	5.000	4.80	-3.9
04	20.000	18.19	-9.1	05	50.000	50.15	0.3	06	100.000	101.14	1.1
07	150.000	164.21	9.5	08	200.000	223.25	11.6				

Ethylbenzene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	1.000	0.95	-5.0	02	2.000	1.92	-3.9	03	5.000	4.93	-1.4
04	20.000	20.27	1.4	05	50.000	50.44	0.9	06	100.000	98.73	-1.3
07	150.000	158.12	5.4	08	200.000	207.77	3.9				

Hexachlorobutadiene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	1.000	1.09	9.0	02	2.000	1.99	-0.4	03	5.000	4.38	-12.4
04	20.000	19.89	-0.6	05	50.000	48.46	-3.1	06	100.000	94.09	-5.9
07	150.000	161.52	7.7	08	200.000	211.48	5.7				

Iodomethane

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
03	5.000	0.94	-81.3	04	20.000	7.74	-61.3	05	50.000	53.38	6.8
06	100.000	134.61	**34.6**	07	150.000	229.98	**53.3**	08	200.000	295.77	**47.9**

Initial Calibration - Detailed Report

Calibration ID:	RC1600076	**Instrument ID:**	R-MS-14
		Signal ID:	1

Analyte

Isopropylbenzene (Cumene)

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	1.000	1.00	-0.2	02	2.000	1.98	-1.1	03	5.000	5.02	0.5
04	20.000	18.57	-7.1	05	50.000	50.01	0.0	06	100.000	101.96	2.0
07	150.000	158.75	5.8	08	200.000	200.51	0.3				

Methacrylonitrile

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	1.000	0.98	-2.3	02	2.000	1.71	-14.4	03	5.000	4.81	-3.9
04	20.000	19.55	-2.2	05	50.000	54.64	9.3	06	100.000	104.97	5.0
07	150.000	156.25	4.2	08	200.000	208.72	4.4				

Methyl Acetate

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	1.000	1.05	4.9	02	2.000	1.85	-7.3	03	5.000	4.98	-0.5
04	20.000	20.34	1.7	05	50.000	51.28	2.6	06	100.000	100.23	0.2
07	150.000	146.54	-2.3	08	200.000	201.46	0.7				

Methyl Methacrylate

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	1.000	0.77	-23.4	02	2.000	1.87	-6.5	03	5.000	4.80	-4.0
04	20.000	19.54	-2.3	05	50.000	52.53	5.1	06	100.000	108.47	8.5
07	150.000	161.43	7.6	08	200.000	230.00	15.0				

Methyl tert-Butyl Ether

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	1.000	0.92	-7.9	02	2.000	1.90	-5.0	03	5.000	4.88	-2.3
04	20.000	19.67	-1.7	05	50.000	51.29	2.6	06	100.000	102.33	2.3
07	150.000	157.05	4.7	08	200.000	214.68	7.3				

Methylcyclohexane

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	1.000	1.13	12.6	02	2.000	1.98	-1.1	03	5.000	4.89	-2.2
04	20.000	18.29	-8.6	05	50.000	50.21	0.4	06	100.000	88.17	-11.8
07	150.000	161.22	7.5	08	200.000	206.38	3.2				

Naphthalene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	1.000	0.90	-10.2	02	2.000	1.60	-20.2	03	5.000	4.55	-9.0
04	20.000	19.71	-1.4	05	50.000	53.54	7.1	06	100.000	104.29	4.3
07	150.000	173.41	15.6	08	200.000	227.63	13.8				

Propionitrile

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	5.000	5.19	3.8	02	10.000	8.51	-14.9	03	25.000	26.87	7.5
04	100.000	97.19	-2.8	05	250.000	265.53	6.2	06	500.000	513.11	2.6
07	750.000	739.22	-1.4	08	1000.000	990.37	-1.0				

Initial Calibration - Detailed Report

Calibration ID:	RC1600076	**Instrument ID:**	R-MS-14
		Signal ID:	1

Analyte

Styrene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	1.000	0.91	-9.2	02	2.000	1.86	-7.0	03	5.000	4.80	-3.9
04	20.000	19.21	-3.9	05	50.000	52.30	4.6	06	100.000	107.08	7.1
07	150.000	158.73	5.8	08	200.000	213.08	6.5				

Tetrachloroethene (PCE)

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	1.000	0.97	-3.2	02	2.000	2.10	5.2	03	5.000	5.09	1.8
04	20.000	19.30	-3.5	05	50.000	47.72	-4.6	06	100.000	96.33	-3.7
07	150.000	164.12	9.4	08	200.000	197.02	-1.5				

Tetrahydrofuran (THF)

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	1.000	1.01	1.0	02	2.000	1.79	-10.7	03	5.000	5.16	3.1
04	20.000	18.43	-7.9	05	50.000	54.63	9.3	06	100.000	105.88	5.9
07	150.000	151.56	1.0	08	200.000	196.49	-1.8				

Toluene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	1.000	1.01	0.8	02	2.000	1.91	-4.3	03	5.000	5.12	2.3
04	20.000	19.50	-2.5	05	50.000	50.88	1.8	06	100.000	100.64	0.6
07	150.000	144.69	-3.5	08	200.000	209.58	4.8				

Toluene-d8

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
03	10.000	10.81	8.1	04	20.000	17.84	-10.8	05	50.000	52.11	4.2
06	100.000	103.71	3.7	07	200.000	189.55	-5.2				

Trichloroethene (TCE)

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	1.000	1.01	1.5	02	2.000	2.01	0.4	03	5.000	4.96	-0.8
04	20.000	19.07	-4.7	05	50.000	48.81	-2.4	06	100.000	99.94	-0.1
07	150.000	158.52	5.7	08	200.000	200.58	0.3				

Trichlorofluoromethane (CFC 11)

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	1.000	1.05	5.3	02	2.000	1.98	-1.1	03	5.000	4.71	-5.8
04	20.000	19.82	-0.9	05	50.000	48.16	-3.7	06	100.000	99.09	-0.9
07	150.000	163.80	9.2	08	200.000	195.74	-2.1				

Vinyl Acetate

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	1.000	0.90	-10.3	02	2.000	1.86	-6.8	03	5.000	4.29	-14.3
04	20.000	19.97	-0.1	05	50.000	49.28	-1.4	06	100.000	107.15	7.2
07	150.000	170.64	13.8	08	200.000	224.11	12.1				

Initial Calibration - Detailed Report

Calibration ID:	RC1600076	**Instrument ID:**	R-MS-14
		Signal ID:	1

Analyte

Vinyl Chloride

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	1.000	1.03	2.6	02	2.000	1.90	-5.1	03	5.000	4.58	-8.4
04	20.000	20.48	2.4	05	50.000	49.59	-0.8	06	100.000	100.92	0.9
07	150.000	162.99	8.7	08	200.000	199.52	-0.2				

cis-1,2-Dichloroethene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	1.000	0.99	-0.8	02	2.000	1.92	-3.8	03	5.000	4.92	-1.6
04	20.000	19.30	-3.5	05	50.000	50.87	1.7	06	100.000	100.78	0.8
07	150.000	157.29	4.9	08	200.000	204.55	2.3				

cis-1,3-Dichloropropene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	1.000	0.80	-20.1	02	2.000	1.75	-12.7	03	5.000	4.57	-8.5
04	20.000	19.44	-2.8	05	50.000	53.38	6.8	06	100.000	110.17	10.2
07	150.000	171.31	14.2	08	200.000	225.99	13.0				

m,p-Xylenes

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	2.000	1.82	-9.0	02	4.000	3.93	-1.7	03	10.000	9.60	-4.0
04	40.000	40.08	0.2	05	100.000	101.13	1.1	06	200.000	202.38	1.2
07	300.000	321.20	7.1	08	400.000	420.36	5.1				

n-Butyl Acetate

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	1.000	0.88	-11.8	02	2.000	1.58	-21.0	03	5.000	4.90	-2.1
04	20.000	19.09	-4.5	05	50.000	53.48	7.0	06	100.000	108.96	9.0
07	150.000	151.43	1.0	08	200.000	244.89	22.4				

n-Butylbenzene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	1.000	0.97	-2.7	02	2.000	1.90	-4.9	03	5.000	4.64	-7.2
04	20.000	19.52	-2.4	05	50.000	52.63	5.3	06	100.000	102.23	2.2
07	150.000	165.45	10.3	08	200.000	198.86	-0.6				

n-Heptane

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	1.000	1.12	12.2	02	2.000	1.96	-2.2	03	5.000	4.40	-12.1
04	20.000	19.99	0.0	05	50.000	50.07	0.1	06	100.000	94.45	-5.6
07	150.000	156.61	4.4	08	200.000	206.24	3.1				

n-Propylbenzene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	1.000	1.01	0.8	02	2.000	1.97	-1.6	03	5.000	4.77	-4.5
04	20.000	19.16	-4.2	05	50.000	50.70	1.4	06	100.000	107.89	7.9
07	150.000	153.25	2.2	08	200.000	196.24	-1.9				

Initial Calibration - Detailed Report

Calibration ID:	RC1600076	**Instrument ID:**	R-MS-14
		Signal ID:	1

Analyte

o-Xylene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	1.000	0.95	-5.3	02	2.000	1.88	-6.2	03	5.000	5.06	1.1
04	20.000	20.15	0.8	05	50.000	50.25	0.5	06	100.000	103.13	3.1
07	150.000	155.87	3.9	08	200.000	204.17	2.1				

sec-Butylbenzene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	1.000	1.00	0.2	02	2.000	1.94	-3.1	03	5.000	4.78	-4.4
04	20.000	19.36	-3.2	05	50.000	49.82	-0.4	06	100.000	102.75	2.8
07	150.000	154.59	3.1	08	200.000	210.15	5.1				

tert-Amyl Methyl Ether

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	1.000	0.86	-14.2	02	2.000	1.97	-1.6	03	5.000	4.86	-2.8
04	20.000	19.17	-4.2	05	50.000	50.81	1.6	06	100.000	102.12	2.1
07	150.000	162.11	8.1	08	200.000	222.00	11.0				

tert-Butylbenzene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	1.000	0.99	-1.2	02	2.000	1.94	-2.8	03	5.000	4.76	-4.8
04	20.000	19.59	-2.0	05	50.000	49.05	-1.9	06	100.000	106.16	6.2
07	150.000	154.42	2.9	08	200.000	207.16	3.6				

trans-1,2-Dichloroethene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	1.000	1.07	7.2	02	2.000	2.00	-0.1	03	5.000	4.82	-3.6
04	20.000	19.94	-0.3	05	50.000	48.80	-2.4	06	100.000	96.87	-3.1
07	150.000	155.73	3.8	08	200.000	197.14	-1.4				

trans-1,3-Dichloropropene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	1.000	0.88	-12.0	02	2.000	1.54	-23.1	03	5.000	4.52	-9.5
04	20.000	19.22	-3.9	05	50.000	53.54	7.1	06	100.000	112.89	12.9
07	150.000	158.42	5.6	08	200.000	245.90	22.9				

trans-1,4-Dichloro-2-butene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	1.000	0.82	-18.1	02	2.000	1.89	-5.5	03	5.000	5.41	8.3
04	20.000	17.80	-11.0	05	50.000	52.06	4.1	06	100.000	112.32	12.3
07	150.000	152.26	1.5	08	200.000	216.64	8.3				

Initial Calibration Verification Summary Report

Calibration ID: RC1600076

Instrument ID: R-MS-14
Column Name: 1

Analyte	Lab Code	Type	Curve Fit	True Value	Calc Conc	Units	Result	Criteria
1,1,1,2-Tetrachloroethane	RC1600076-09	T	Average RF	50	52.77	ppm	5.5	<=20
1,1,1,2-Tetrachloroethane	RC1600076-09	T	Average RF	50	52.77	ppm	5.5	<=30
1,1,1-Trichloroethane (TCA)	RC1600076-09	T	Average RF	50	56.77	ppm	13.5	<=30
1,1,1-Trichloroethane (TCA)	RC1600076-09	T	Average RF	50	56.77	ppm	13.5	<=20
1,1,2,2-Tetrachloroethane	RC1600076-09	T	Average RF	50	51.90	ppm	3.8	<=30
1,1,2,2-Tetrachloroethane	RC1600076-09	T	Average RF	50	51.90	ppm	3.8	<=20
1,1,2-Trichloroethane	RC1600076-09	T	Average RF	50	48.64	ppm	-2.7	<=30
1,1,2-Trichloroethane	RC1600076-09	T	Average RF	50	48.64	ppm	-2.7	<=20
1,1,2-Trichlorotrifluoroethane	RC1600076-09	T	Average RF	50	54.73	ppm	9.5	<=30
1,1,2-Trichlorotrifluoroethane	RC1600076-09	T	Average RF	50	54.73	ppm	9.5	<=20
1,1-Dichloroethane (1,1-DCA)	RC1600076-09	T	Average RF	50	55.75	ppm	11.5	<=30
1,1-Dichloroethane (1,1-DCA)	RC1600076-09	T	Average RF	50	55.75	ppm	11.5	<=20
1,1-Dichloroethene (1,1-DCE)	RC1600076-09	T	Average RF	50	56.46	ppm	12.9	<=30
1,1-Dichloroethene (1,1-DCE)	RC1600076-09	T	Average RF	50	56.46	ppm	12.9	<=20
1,1-Dichloropropene	RC1600076-09	T	Average RF	50	47.20	ppm	-5.6	<=20
1,1-Dichloropropene	RC1600076-09	T	Average RF	50	47.20	ppm	-5.6	<=30
1,2,3-Trichlorobenzene	RC1600076-09	T	Average RF	50	51.42	ppm	2.8	<=20
1,2,3-Trichlorobenzene	RC1600076-09	T	Average RF	50	51.42	ppm	2.8	<=30
1,2,3-Trichloropropane	RC1600076-09	T	Average RF	50	49.78	ppm	-0.4	<=20
1,2,3-Trichloropropane	RC1600076-09	T	Average RF	50	49.78	ppm	-0.4	<=30
1,2,4-Trichlorobenzene	RC1600076-09	T	Average RF	50	52.34	ppm	4.7	<=20
1,2,4-Trichlorobenzene	RC1600076-09	T	Average RF	50	52.34	ppm	4.7	<=30
1,2,4-Trimethylbenzene	RC1600076-09	T	Average RF	50	53.38	ppm	6.8	<=30
1,2,4-Trimethylbenzene	RC1600076-09	T	Average RF	50	53.38	ppm	6.8	<=20
1,2-Dibromo-3-chloropropane (DBCP)	RC1600076-09	T	Quadratic	50	52.19	ppm	4.4	<=30
1,2-Dibromo-3-chloropropane (DBCP)	RC1600076-09	T	Quadratic	50	52.19	ppm	4.4	<=20
1,2-Dibromoethane	RC1600076-09	T	Average RF	50	51.26	ppm	2.5	<=20
1,2-Dibromoethane	RC1600076-09	T	Average RF	50	51.26	ppm	2.5	<=30
1,2-Dichloro-1,1,2-trifluoroethane (CFC 123	RC1600076-09	T	Average RF	50	56.44	ppm	12.9	<=30
1,2-Dichloro-1,1,2-trifluoroethane (CFC 123	RC1600076-09	T	Average RF	50	56.44	ppm	12.9	<=20
1,2-Dichlorobenzene	RC1600076-09	T	Average RF	50	51.27	ppm	2.5	<=30
1,2-Dichlorobenzene	RC1600076-09	T	Average RF	50	51.27	ppm	2.5	<=20
1,2-Dichloroethane	RC1600076-09	T	Average RF	50	49.95	ppm	-0.1	<=20
1,2-Dichloroethane	RC1600076-09	T	Average RF	50	49.95	ppm	-0.1	<=30
1,2-Dichloropropane	RC1600076-09	T	Average RF	50	52.04	ppm	4.1	<=30
1,2-Dichloropropane	RC1600076-09	T	Average RF	50	52.04	ppm	4.1	<=20
1,3,5-Trimethylbenzene	RC1600076-09	T	Average RF	50	54.47	ppm	8.9	<=30
1,3,5-Trimethylbenzene	RC1600076-09	T	Average RF	50	54.47	ppm	8.9	<=20
1,3-Dichlorobenzene	RC1600076-09	T	Average RF	50	52.96	ppm	5.9	<=20
1,3-Dichlorobenzene	RC1600076-09	T	Average RF	50	52.96	ppm	5.9	<=30
1,3-Dichloropropane	RC1600076-09	T	Average RF	50	47.89	ppm	-4.2	<=30
1,3-Dichloropropane	RC1600076-09	T	Average RF	50	47.89	ppm	-4.2	<=20
1,4-Dichlorobenzene	RC1600076-09	T	Average RF	50	50.93	ppm	1.9	<=30
1,4-Dichlorobenzene	RC1600076-09	T	Average RF	50	50.93	ppm	1.9	<=20
1,4-Dioxane	RC1600076-09	T	Average RF	1000	1050	ppm	5.0	<=30
1,4-Dioxane	RC1600076-09	T	Average RF	1000	1050	ppm	5.0	<=20
1-Butanol	RC1600076-09	T	Average RF	2500	2733	ppm	9.3	<=30
1-Butanol	RC1600076-09	T	Average RF	2500	2733	ppm	9.3	<=20
2,2-Dichloro-1,1,1-trifluoroethane (CFC 123	RC1600076-09	T	Average RF	50	56.08	ppm	12.2	<=20
2,2-Dichloro-1,1,1-trifluoroethane (CFC 123	RC1600076-09	T	Average RF	50	56.08	ppm	12.2	<=30
2,2-Dichloropropane	RC1600076-09	T	Average RF	50	56.46	ppm	12.9	<=30

Initial Calibration Verification Summary Report

Calibration ID:	RC1600076	**Instrument ID:**	R-MS-14
		Column Name:	1

Analyte	Lab Code	Type	Curve Fit	True Value	Calc Conc	Units	Result	Criteria
2,2-Dichloropropane	RC1600076-09	T	Average RF	50	56.46	ppm	12.9	<=20
2-Butanone (MEK)	RC1600076-09	T	Average RF	50	45.48	ppm	-9.0	<=30
2-Butanone (MEK)	RC1600076-09	T	Average RF	50	45.48	ppm	-9.0	<=20
2-Chloro-1,3-butadiene	RC1600076-09	T	Average RF	50	55.97	ppm	11.9	<=30
2-Chloro-1,3-butadiene	RC1600076-09	T	Average RF	50	55.97	ppm	11.9	<=20
2-Chloroethyl Vinyl Ether	RC1600076-09	T	Average RF	50	56.78	ppm	13.6	<=30
2-Chloroethyl Vinyl Ether	RC1600076-09	T	Average RF	50	56.78	ppm	13.6	<=20
2-Chlorotoluene	RC1600076-09	T	Average RF	50	52.58	ppm	5.2	<=30
2-Chlorotoluene	RC1600076-09	T	Average RF	50	52.58	ppm	5.2	<=20
2-Hexanone	RC1600076-09	T	Average RF	50	51.07	ppm	2.1	<=30
2-Hexanone	RC1600076-09	T	Average RF	50	51.07	ppm	2.1	<=20
2-Methyl-1-propanol	RC1600076-09	T	Average RF	1000	1021	ppm	2.1	<=20
2-Methyl-1-propanol	RC1600076-09	T	Average RF	1000	1021	ppm	2.1	<=30
2-Methyl-2-propanol	RC1600076-09	T	Average RF	1000	1068	ppm	6.8	<=30
2-Methyl-2-propanol	RC1600076-09	T	Average RF	1000	1068	ppm	6.8	<=20
2-Nitropropane	RC1600076-09	T	Average RF	100	78.26	ppm	-21.7	<=20
2-Nitropropane	RC1600076-09	T	Average RF	100	78.26	ppm	-21.7	<=30
2-Propanol	RC1600076-09	T	Average RF	1000	1001	ppm	0.1	<=30
2-Propanol	RC1600076-09	T	Average RF	1000	1001	ppm	0.1	<=20
3-Chloro-1-propene	RC1600076-09	T	Average RF	50	51.87	ppm	3.7	<=20
3-Chloro-1-propene	RC1600076-09	T	Average RF	50	51.87	ppm	3.7	<=30
4-Chlorotoluene	RC1600076-09	T	Average RF	50	53.39	ppm	6.8	<=30
4-Chlorotoluene	RC1600076-09	T	Average RF	50	53.39	ppm	6.8	<=20
4-Isopropyltoluene	RC1600076-09	T	Average RF	50	53.99	ppm	8.0	<=30
4-Isopropyltoluene	RC1600076-09	T	Average RF	50	53.99	ppm	8.0	<=20
4-Methyl-2-pentanone	RC1600076-09	T	Average RF	50	52.92	ppm	5.8	<=30
4-Methyl-2-pentanone	RC1600076-09	T	Average RF	50	52.92	ppm	5.8	<=20
Acetone	RC1600076-09	T	Linear	50	51.42	ppm	2.8	<=30
Acetone	RC1600076-09	T	Linear	50	51.42	ppm	2.8	<=20
Acetonitrile	RC1600076-09	T	Average RF	250	235.2	ppm	-5.9	<=20
Acetonitrile	RC1600076-09	T	Average RF	250	235.2	ppm	-5.9	<=30
Acrolein	RC1600076-09	T	Average RF	100	97.81	ppm	-2.2	<=30
Acrolein	RC1600076-09	T	Average RF	100	97.81	ppm	-2.2	<=20
Acrylonitrile	RC1600076-09	T	Average RF	250	248.1	ppm	-0.8	<=20
Acrylonitrile	RC1600076-09	T	Average RF	250	248.1	ppm	-0.8	<=30
Benzene	RC1600076-09	T	Average RF	50	51.40	ppm	2.8	<=30
Benzene	RC1600076-09	T	Average RF	50	51.40	ppm	2.8	<=20
Bromobenzene	RC1600076-09	T	Average RF	50	50.99	ppm	2.0	<=30
Bromobenzene	RC1600076-09	T	Average RF	50	50.99	ppm	2.0	<=20
Bromochloromethane	RC1600076-09	T	Average RF	50	52.46	ppm	4.9	<=20
Bromochloromethane	RC1600076-09	T	Average RF	50	52.46	ppm	4.9	<=30
Bromodichloromethane	RC1600076-09	T	Average RF	50	52.38	ppm	4.8	<=20
Bromodichloromethane	RC1600076-09	T	Average RF	50	52.38	ppm	4.8	<=30
Bromoform	RC1600076-09	T	Average RF	50	52.88	ppm	5.8	<=30
Bromoform	RC1600076-09	T	Average RF	50	52.88	ppm	5.8	<=20
Bromomethane	RC1600076-09	T	Quadratic	50	59.88	ppm	19.8	<=30
Bromomethane	RC1600076-09	T	Quadratic	50	59.88	ppm	19.8	<=20
Carbon Disulfide	RC1600076-09	T	Average RF	50	60.74	ppm	21.5	<=20
Carbon Disulfide	RC1600076-09	T	Average RF	50	60.74	ppm	21.5	<=30
Carbon Tetrachloride	RC1600076-09	T	Average RF	50	51.26	ppm	2.5	<=30
Carbon Tetrachloride	RC1600076-09	T	Average RF	50	51.26	ppm	2.5	<=20

Initial Calibration Verification Summary Report

Calibration ID:	RC1600076	**Instrument ID:**	R-MS-14
		Column Name:	1

Analyte	Lab Code	Type	Curve Fit	True Value	Calc Conc	Units	Result	Criteria
Chlorobenzene	RC1600076-09	T	Average RF	50	51.57	ppm	3.1	<=30
Chlorobenzene	RC1600076-09	T	Average RF	50	51.57	ppm	3.1	<=20
Chloroethane	RC1600076-09	T	Average RF	50	52.64	ppm	5.3	<=30
Chloroethane	RC1600076-09	T	Average RF	50	52.64	ppm	5.3	<=20
Chloroform	RC1600076-09	T	Average RF	50	53.35	ppm	6.7	<=20
Chloroform	RC1600076-09	T	Average RF	50	53.35	ppm	6.7	<=30
Chloromethane	RC1600076-09	T	Average RF	50	54.99	ppm	10.0	<=20
Chloromethane	RC1600076-09	T	Average RF	50	54.99	ppm	10.0	<=30
Cyclohexane	RC1600076-09	T	Average RF	50	41.12	ppm	-17.8	<=30
Cyclohexane	RC1600076-09	T	Average RF	50	41.12	ppm	-17.8	<=20
Cyclohexanone	RC1600076-09	T	Average RF	1000	957.3	ppm	-4.3	<=20
Cyclohexanone	RC1600076-09	T	Average RF	1000	957.3	ppm	-4.3	<=30
Dibromochloromethane	RC1600076-09	T	Average RF	50	54.06	ppm	8.1	<=20
Dibromochloromethane	RC1600076-09	T	Average RF	50	54.06	ppm	8.1	<=30
Dibromomethane	RC1600076-09	T	Average RF	50	51.52	ppm	3.0	<=20
Dibromomethane	RC1600076-09	T	Average RF	50	51.52	ppm	3.0	<=30
Dichlorodifluoromethane (CFC 12)	RC1600076-09	T	Average RF	50	64.42	ppm	28.8	<=20
Dichlorodifluoromethane (CFC 12)	RC1600076-09	T	Average RF	50	64.42	ppm	28.8	<=30
Dichlorofluoromethane (CFC 21)	RC1600076-09	T	Average RF	50	54.05	ppm	8.1	<=30
Dichlorofluoromethane (CFC 21)	RC1600076-09	T	Average RF	50	54.05	ppm	8.1	<=20
Dichloromethane	RC1600076-09	T	Average RF	50	54.05	ppm	8.1	<=20
Dichloromethane	RC1600076-09	T	Average RF	50	54.05	ppm	8.1	<=30
Diethyl Ether	RC1600076-09	T	Average RF	50	53.79	ppm	7.6	<=30
Diethyl Ether	RC1600076-09	T	Average RF	50	53.79	ppm	7.6	<=20
Diisopropyl Ether	RC1600076-09	T	Average RF	50	51.29	ppm	2.6	<=30
Diisopropyl Ether	RC1600076-09	T	Average RF	50	51.29	ppm	2.6	<=20
Ethyl Methacrylate	RC1600076-09	T	Average RF	50	49.05	ppm	-1.9	<=20
Ethyl Methacrylate	RC1600076-09	T	Average RF	50	49.05	ppm	-1.9	<=30
Ethyl tert-Butyl Ether	RC1600076-09	T	Average RF	50	47.20	ppm	-5.6	<=20
Ethyl tert-Butyl Ether	RC1600076-09	T	Average RF	50	47.20	ppm	-5.6	<=30
Ethylbenzene	RC1600076-09	T	Average RF	50	52.04	ppm	4.1	<=20
Ethylbenzene	RC1600076-09	T	Average RF	50	52.04	ppm	4.1	<=30
Hexachlorobutadiene	RC1600076-09	T	Average RF	50	53.80	ppm	7.6	<=30
Hexachlorobutadiene	RC1600076-09	T	Average RF	50	53.80	ppm	7.6	<=20
Iodomethane	RC1600076-09	T	Average RF	50	62.73	ppm	25.5	<=30
Iodomethane	RC1600076-09	T	Average RF	50	62.73	ppm	25.5	<=20
Isopropylbenzene (Cumene)	RC1600076-09	T	Average RF	50	49.18	ppm	-1.6	<=30
Isopropylbenzene (Cumene)	RC1600076-09	T	Average RF	50	49.18	ppm	-1.6	<=20
Methacrylonitrile	RC1600076-09	T	Average RF	50	52.32	ppm	4.6	<=30
Methacrylonitrile	RC1600076-09	T	Average RF	50	52.32	ppm	4.6	<=20
Methyl Acetate	RC1600076-09	T	Average RF	50	50.00	ppm	0.0	<=20
Methyl Acetate	RC1600076-09	T	Average RF	50	50.00	ppm	0.0	<=30
Methyl Methacrylate	RC1600076-09	T	Average RF	50	52.90	ppm	5.8	<=30
Methyl Methacrylate	RC1600076-09	T	Average RF	50	52.90	ppm	5.8	<=20
Methyl tert-Butyl Ether	RC1600076-09	T	Average RF	50	54.67	ppm	9.3	<=30
Methyl tert-Butyl Ether	RC1600076-09	T	Average RF	50	54.67	ppm	9.3	<=20
Methylcyclohexane	RC1600076-09	T	Average RF	50	51.08	ppm	2.2	<=20
Methylcyclohexane	RC1600076-09	T	Average RF	50	51.08	ppm	2.2	<=30
Naphthalene	RC1600076-09	T	Average RF	50	54.61	ppm	9.2	<=30
Naphthalene	RC1600076-09	T	Average RF	50	54.61	ppm	9.2	<=20
Propionitrile	RC1600076-09	T	Average RF	250	248.7	ppm	-0.5	<=30

Initial Calibration Verification Summary Report

Calibration ID:	RC1600076	**Instrument ID:**	R-MS-14
		Column Name:	1

Analyte	Lab Code	Type	Curve Fit	True Value	Calc Conc	Units	Result	Criteria
Propionitrile	RC1600076-09	T	Average RF	250	248.7	ppm	-0.5	<=20
Styrene	RC1600076-09	T	Average RF	50	49.24	ppm	-1.5	<=20
Styrene	RC1600076-09	T	Average RF	50	49.24	ppm	-1.5	<=30
Tetrachloroethene (PCE)	RC1600076-09	T	Average RF	50	52.88	ppm	5.8	<=30
Tetrachloroethene (PCE)	RC1600076-09	T	Average RF	50	52.88	ppm	5.8	<=20
Tetrahydrofuran (THF)	RC1600076-09	T	Average RF	50	47.69	ppm	-4.6	<=30
Tetrahydrofuran (THF)	RC1600076-09	T	Average RF	50	47.69	ppm	-4.6	<=20
Toluene	RC1600076-09	T	Average RF	50	53.32	ppm	6.6	<=20
Toluene	RC1600076-09	T	Average RF	50	53.32	ppm	6.6	<=30
Trichloroethene (TCE)	RC1600076-09	T	Average RF	50	54.30	ppm	8.6	<=20
Trichloroethene (TCE)	RC1600076-09	T	Average RF	50	54.30	ppm	8.6	<=30
Trichlorofluoromethane (CFC 11)	RC1600076-09	T	Average RF	50	56.51	ppm	13.0	<=20
Trichlorofluoromethane (CFC 11)	RC1600076-09	T	Average RF	50	56.51	ppm	13.0	<=30
Vinyl Acetate	RC1600076-09	T	Average RF	50	55.88	ppm	11.8	<=30
Vinyl Acetate	RC1600076-09	T	Average RF	50	55.88	ppm	11.8	<=20
Vinyl Chloride	RC1600076-09	T	Average RF	50	59.71	ppm	19.4	<=20
Vinyl Chloride	RC1600076-09	T	Average RF	50	59.71	ppm	19.4	<=30
cis-1,2-Dichloroethene	RC1600076-09	T	Average RF	50	54.66	ppm	9.3	<=30
cis-1,2-Dichloroethene	RC1600076-09	T	Average RF	50	54.66	ppm	9.3	<=20
cis-1,3-Dichloropropene	RC1600076-09	T	Average RF	50	51.84	ppm	3.7	<=30
cis-1,3-Dichloropropene	RC1600076-09	T	Average RF	50	51.84	ppm	3.7	<=20
m,p-Xylenes	RC1600076-09	T	Average RF	100	109.5	ppm	9.5	<=30
m,p-Xylenes	RC1600076-09	T	Average RF	100	109.5	ppm	9.5	<=20
n-Butyl Acetate	RC1600076-09	T	Average RF	50	51.03	ppm	2.1	<=30
n-Butyl Acetate	RC1600076-09	T	Average RF	50	51.03	ppm	2.1	<=20
n-Butylbenzene	RC1600076-09	T	Average RF	50	53.84	ppm	7.7	<=20
n-Butylbenzene	RC1600076-09	T	Average RF	50	53.84	ppm	7.7	<=30
n-Heptane	RC1600076-09	T	Average RF	50	55.51	ppm	11.0	<=20
n-Heptane	RC1600076-09	T	Average RF	50	55.51	ppm	11.0	<=30
n-Propylbenzene	RC1600076-09	T	Average RF	50	54.00	ppm	8.0	<=30
n-Propylbenzene	RC1600076-09	T	Average RF	50	54.00	ppm	8.0	<=20
o-Xylene	RC1600076-09	T	Average RF	50	48.63	ppm	-2.7	<=20
o-Xylene	RC1600076-09	T	Average RF	50	48.63	ppm	-2.7	<=30
sec-Butylbenzene	RC1600076-09	T	Average RF	50	54.09	ppm	8.2	<=20
sec-Butylbenzene	RC1600076-09	T	Average RF	50	54.09	ppm	8.2	<=30
tert-Amyl Methyl Ether	RC1600076-09	T	Average RF	50	51.58	ppm	3.2	<=30
tert-Amyl Methyl Ether	RC1600076-09	T	Average RF	50	51.58	ppm	3.2	<=20
tert-Butylbenzene	RC1600076-09	T	Average RF	50	54.58	ppm	9.2	<=30
tert-Butylbenzene	RC1600076-09	T	Average RF	50	54.58	ppm	9.2	<=20
trans-1,2-Dichloroethene	RC1600076-09	T	Average RF	50	54.16	ppm	8.3	<=20
trans-1,2-Dichloroethene	RC1600076-09	T	Average RF	50	54.16	ppm	8.3	<=30
trans-1,3-Dichloropropene	RC1600076-09	T	Average RF	50	54.48	ppm	9.0	<=20
trans-1,3-Dichloropropene	RC1600076-09	T	Average RF	50	54.48	ppm	9.0	<=30
trans-1,4-Dichloro-2-butene	RC1600076-09	T	Average RF	50	47.88	ppm	-4.2	<=30
trans-1,4-Dichloro-2-butene	RC1600076-09	T	Average RF	50	47.88	ppm	-4.2	<=20
1,2-Dichloroethane-d4	RC1600076-09	S	Average RF	50	49.53	ppm	-0.9	<=30
1,2-Dichloroethane-d4	RC1600076-09	S	Average RF	50	49.53	ppm	-0.9	<=20
4-Bromofluorobenzene	RC1600076-09	S	Average RF	50	48.15	ppm	-3.7	<=20
4-Bromofluorobenzene	RC1600076-09	S	Average RF	50	48.15	ppm	-3.7	<=30
Dibromofluoromethane	RC1600076-09	S	Average RF	50	51.66	ppm	3.3	<=20
Dibromofluoromethane	RC1600076-09	S	Average RF	50	51.66	ppm	3.3	<=30

Initial Calibration Verification Summary Report

Calibration ID:	RC1600076	**Instrument ID:**	R-MS-14
		Column Name:	1

Analyte	Lab Code	Type	Curve Fit	True Value	Calc Conc	Units	Result	Criteria
Toluene-d8	RC1600076-09	S	Average RF	50	51.92	ppm	3.8	<=30
Toluene-d8	RC1600076-09	S	Average RF	50	51.92	ppm	3.8	<=20

Exceptions

QAP	Method
LAB QAP	8260C

Compound	Type	Criteria	Result
Iodomethane	Percent Difference	<= 20	25.46
2-Nitropropane	Percent Difference	<= 20	-21.74
Carbon Disulfide	Percent Difference	<= 20	21.48
Dichlorodifluoromethane (CFC 12)	Percent Difference	<= 20	28.84

Exceptions

QAP	Method
DOD QSM v5.0 Rochester	8260C

Compound	Type	Criteria	Result
2-Nitropropane	Percent Difference	<= 20	-21.74
Iodomethane	Percent Difference	<= 20	25.46
Carbon Disulfide	Percent Difference	<= 20	21.48
Dichlorodifluoromethane (CFC 12)	Percent Difference	<= 20	28.84

1st FN 08/04/16
2nd VR 08/04/16

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA14\Data\080316\
Data File : B7320.D
Acq On : 3 Aug 2016 10:49 am
Operator : F.Naegler
Sample : 1.0 PPB STD Inst : MSVOA14
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 03 11:30:56 2016
Quant Method : I:\ACQUDATA\MSVOA14\Methods\S080316.M
Quant Title : MS#14 - 8260 SOILS 10ml PURGE
QLast Update : Wed Aug 03 09:03:16 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.478	168	312897	50.00	ug/L	0.00
42) 1,4-Difluorobenzene	5.874	114	526243	50.00	ug/L	0.00
70) d5-Chlorobenzene	10.611	117	462046	50.00	ug/L	0.00
87) 1,4-Dichlorobenzene-d4	13.226	152	221000	50.00	ug/L	0.00
System Monitoring Compounds						
44) SURR4,Dibrflmethane	4.319	113	157619	53.06	ug/L	0.00
Spiked Amount 50.000	Range 63 - 138		Recovery = 106.12%			
47) SURR1,1,2-dichloroetha...	4.892	65	185852	48.98	ug/L	0.00
Spiked Amount 50.000	Range 67 - 128		Recovery = 97.96%			
64) SURR3,Toluene-d8	8.684	98	687343	53.42	ug/L	0.00
Spiked Amount 50.000	Range 66 - 138		Recovery = 106.84%			
69) SURR2,BFB	11.994	95	244306	51.28	ug/L	0.00
Spiked Amount 50.000	Range 51 - 136		Recovery = 102.56%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	0.929	85	4676	1.05	ug/L	93
3) Chloromethane	1.033	50	6557	1.18	ug/L	100
4) Vinyl Chloride	1.094	62	5672	0.97	ug/L	97
5) Bromomethane	1.289	94	4661	1.33	ug/L	97
6) Chloroethane	1.350	64	2969	0.93	ug/L	93
7) Freon 21	1.472	67	7568	1.07	ug/L	98
8) Trichlorofluoromethane	1.509	101	5095	1.17	ug/L	95
9) Diethyl Ether	1.704	59	3960	1.12	ug/L #	81
10) Freon 123a	1.704	67	5583	1.28	ug/L #	71
11) Freon 123	1.752	83	6290	1.30	ug/L	96
12) Acrolein	1.789	56	4696	6.10	ug/L	90
13) 1,1-Diclethene	1.856	96	3352	1.09	ug/L	90
14) Freon 113	1.868	101	3593	1.24	ug/L	99
15) Acetone	1.923	43	5575	1.21	ug/L	71
16) 2-Propanol	2.124	45	9379m	25.42	ug/L	
17) Iodomethane	1.960	142	538	4.92	ug/L	94
18) Carbon Disulfide	2.009	76	10762	1.11	ug/L	96
20) Allyl Chloride	2.130	76	2449	1.58	ug/L #	71
21) Methyl Acetate	2.167	43	3708	1.06	ug/L	88
22) Methylene Chloride	2.228	84	4490	1.09	ug/L	96
23) TBA	2.405	59	11863m	21.92	ug/L	
24) Acrylonitrile	2.447	53	9451	5.23	ug/L	86
25) Methyl-t-Butyl Ether	2.490	73	10849	1.00	ug/L	82
26) trans-1,2-Dichloroethene	2.472	96	4495	1.27	ug/L #	85
27) 1,1-Diclethane	2.880	63	7243	1.14	ug/L	97
28) Vinyl Acetate	2.984	86	808m	1.02	ug/L	
29) DIPE	3.008	45	13310	0.97	ug/L	90
30) 2-Chloro-1,3-Butadiene	2.984	53	6134	1.05	ug/L	87
31) ETBE	3.447	59	11217	0.97	ug/L	94
32) 2,2-Dichloropropane	3.569	77	4114	1.05	ug/L	95
33) cis-1,2-Dichloroethene	3.581	96	4521	1.16	ug/L	98
34) 2-Butanone	3.655	43	3195	1.33	ug/L	94
35) Propionitrile	3.740	54	3880	5.46	ug/L	83
36) Bromochloromethane	3.911	130	2651	1.23	ug/L #	77
37) Methacrylonitrile	3.929	67	1942	1.06	ug/L #	42
38) Tetrahydrofuran	4.033	42	1493	1.02	ug/L	80
39) Chloroform	4.063	83	7180	1.15	ug/L	90
40) 1,1,1-Trichloroethane	4.319	97	4761	1.13	ug/L	85
41) TAME	5.343	73	9056	0.87	ug/L	98

1st FN 08/04/16
2nd KR 08/04/16

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA14\Data\080316\
Data File : B7320.D
Acq On : 3 Aug 2016 10:49 am
Operator : F.Naegler
Sample : 1.0 PPB STD Inst : MSVOA14
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 03 11:30:56 2016
Quant Method : I:\ACQUDATA\MSVOA14\Methods\S080316.M
Quant Title : MS#14 - 8260 SOILS 10ml PURGE
QLast Update : Wed Aug 03 09:03:16 2016
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
43)	Cyclohexane	4.417	41	3883	1.10	ug/L		95
45)	Carbontetrachloride	4.612	121	1035	1.05	ug/L		85
46)	1,1-Dichloropropene	4.630	75	5757	1.26	ug/L		92
48)	Benzene	4.996	78	18074	1.26	ug/L		94
49)	1,2-Dichloroethane	5.032	62	4925	1.09	ug/L		93
50)	Iso-Butyl Alcohol	5.166	43	3907m	16.36	ug/L		
51)	n-Heptane	5.697	43	6418	1.23	ug/L		88
52)	1-Butanol	6.721	56	7899m	72.38	ug/L		
53)	Trichloroethene	6.361	130	3964	1.29	ug/L		88
54)	Methylcyclohexane	6.733	55	6690m	1.29	ug/L		
55)	1,2-Diclpropane	6.812	63	4331	1.11	ug/L		84
56)	Dibromomethane	7.050	93	2496	1.14	ug/L		92
57)	1,4-Dioxane	7.434	88	1023m	16.13	ug/L		
58)	Methyl Methacrylate	7.294	69	2417m	0.83	ug/L		
59)	Bromodichloromethane	7.465	83	4637	1.11	ug/L		92
60)	2-Nitropropane	7.910	41	3173m	5.43	ug/L		
61)	2-Chloroethylvinyl Ether	8.135	63	1826	0.75	ug/L		72
62)	cis-1,3-Dichloropropene	8.282	75	4900	0.94	ug/L		98
63)	4-Methyl-2-pentanone	8.617	43	3584	0.84	ug/L		88
65)	Toluene	8.782	91	17230	1.17	ug/L		99
66)	trans-1,3-Dichloropropene	9.178	75	4322	1.33	ug/L		94
67)	Ethyl Methacrylate	9.416	69	4583	1.22	ug/L		91
68)	1,1,2-Trichloroethane	9.416	97	3308m	1.07	ug/L		
71)	Tetrachloroethene	9.550	164	2844	1.23	ug/L		95
72)	2-Hexanone	9.830	43	2734	0.88	ug/L		91
73)	1,3-Dichloropropane	9.617	76	6243	1.13	ug/L		95
74)	Dibromochloromethane	9.897	129	2782	0.99	ug/L		90
75)	N-Butyl Acetate	10.056	43	5561	1.12	ug/L		90
76)	1,2-Dibromoethane	9.995	107	3030	0.99	ug/L	#	67
77)	Chlorobenzene	10.641	112	11072	1.23	ug/L		93
78)	1,1,1,2-Tetrachloroethane	10.769	131	3327	1.31	ug/L		98
79)	Ethylbenzene	10.818	106	5468	1.15	ug/L		95
80)	(m+p)Xylene	10.970	106	12713	2.20	ug/L		93
81)	o-Xylene	11.415	106	6638	1.18	ug/L		95
82)	Styrene	11.434	104	10838	1.12	ug/L		95
83)	Bromoform	11.604	173	1647	1.42	ug/L		78
84)	Isopropylbenzene	11.848	105	17680	1.24	ug/L		93
85)	Cyclohexanone	11.915	55	14992	21.31	ug/L		91
86)	trans-1,4-Dichloro-2-B...	12.263	53	968	0.78	ug/L	#	70
88)	1,1,2,2-Tetrachloroethane	12.196	83	4922	1.01	ug/L		99
89)	Bromobenzene	12.122	156	4298	1.20	ug/L	#	76
90)	1,2,3-Trichloropropane	12.214	110	1195	0.92	ug/L	#	74
91)	n-Propylbenzene	12.305	91	21567	1.16	ug/L		97
92)	2-Chlorotoluene	12.360	91	11685	1.11	ug/L		98
93)	4-Chlorotoluene	12.482	91	14668	1.15	ug/L		98
94)	1,3,5-Trimethylbenzene	12.513	105	13883	1.14	ug/L		97
95)	tert-Butylbenzene	12.848	119	12102	1.19	ug/L		98
96)	1,2,4-Trimethylbenzene	12.897	105	14294	1.15	ug/L		91
97)	sec-Butylbenzene	13.080	105	19444	1.21	ug/L		97
98)	p-Isopropyltoluene	13.244	119	15537	1.19	ug/L		94
99)	1,3-Dclbenz	13.159	146	8899	1.32	ug/L		92
100)	1,4-Dclbenz	13.250	146	9172	1.32	ug/L		93
101)	n-Butylbenzene	13.671	91	15073	1.15	ug/L		98
102)	1,2-Dclbenz	13.628	146	8412	1.28	ug/L		91
103)	1,2-Dibromo-3-chloropr...	14.433	157	752	1.21	ug/L		90
104)	1,2,4-Tcbenzene	15.274	180	6126	1.39	ug/L		96

1st FN 08/04/16
2nd WR 08/04/16

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA14\Data\080316\
Data File : B7320.D
Acq On : 3 Aug 2016 10:49 am
Operator : F.Naegler
Sample : 1.0 PPB STD Inst : MSVOA14
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 03 11:30:56 2016
Quant Method : I:\ACQUDATA\MSVOA14\Methods\S080316.M
Quant Title : MS#14 - 8260 SOILS 10ml PURGE
QLast Update : Wed Aug 03 09:03:16 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
105) Hexachlorobt	15.482	225	3316	1.54 ug/L	95
106) Naphthalen	15.512	128	13933	1.06 ug/L	96
107) 1,2,3-Tclbenzene	15.750	180	5676	1.29 ug/L	93

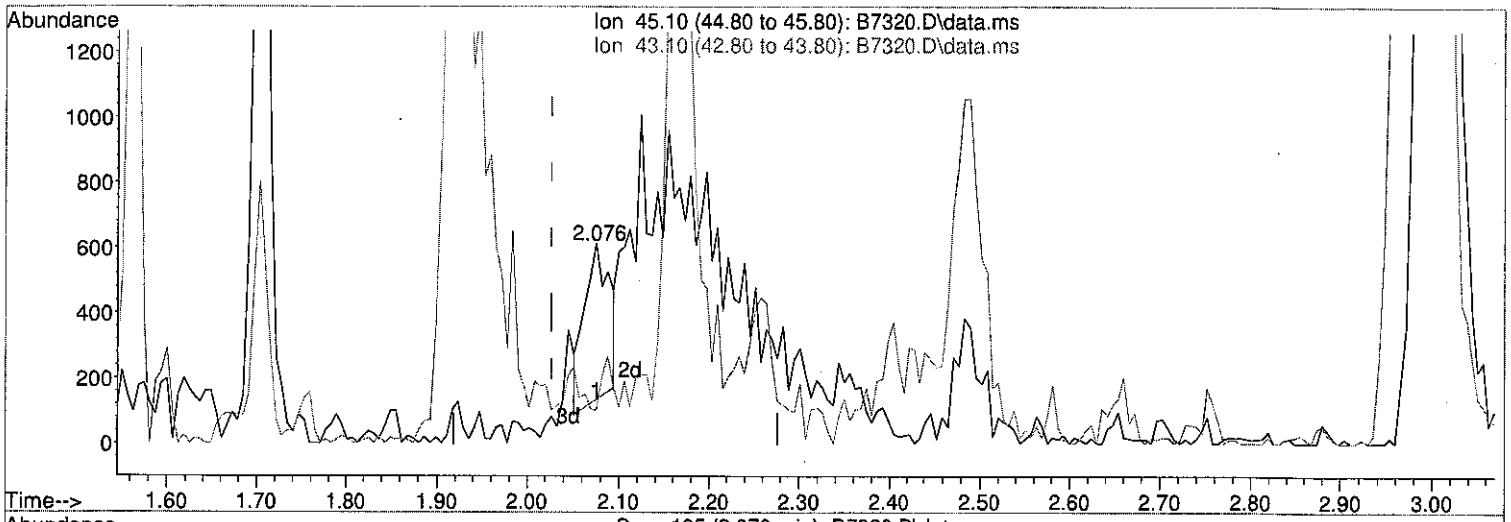
(#) = qualifier out of range (m) = manual integration (+) = signals summed

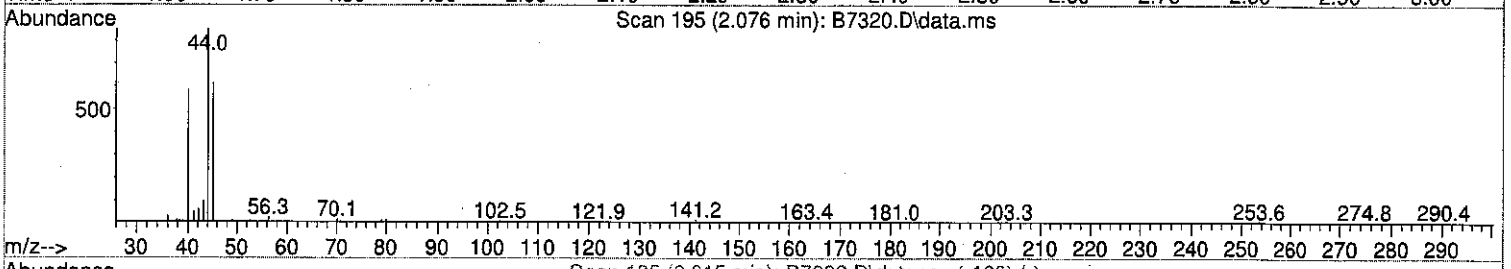
1st FN 08/04/16
2nd KR 08/04/16

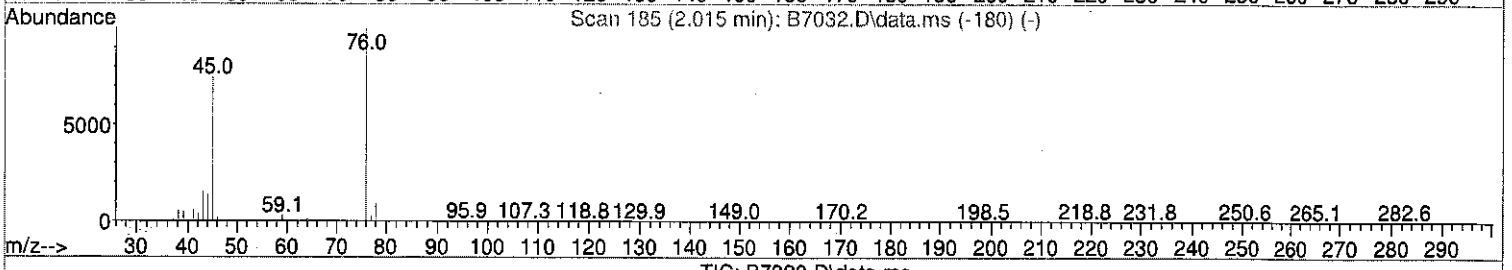
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\080316\
Data File : B7320.D
Acq On : 3 Aug 2016 10:49 am
Operator : F.Naegler
Sample : 1.0 PPB STD Inst : MSVOA14
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 03 11:17:17 2016
Quant Method : I:\ACQUDATA\MSVOA14\Methods\S080316.M
Quant Title : MS#14 - 8260 SOILS 10ml PURGE
QLast Update : Wed Aug 03 09:03:16 2016
Response via : Initial Calibration







TIC: B7320.D\data.ms

(16) 2-Propanol

2.076min (+0.049) 2.45 ug/L

response 904

Ion	Exp%	Act%
45.10	100	100
43.10	21.50	16.18
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

Before

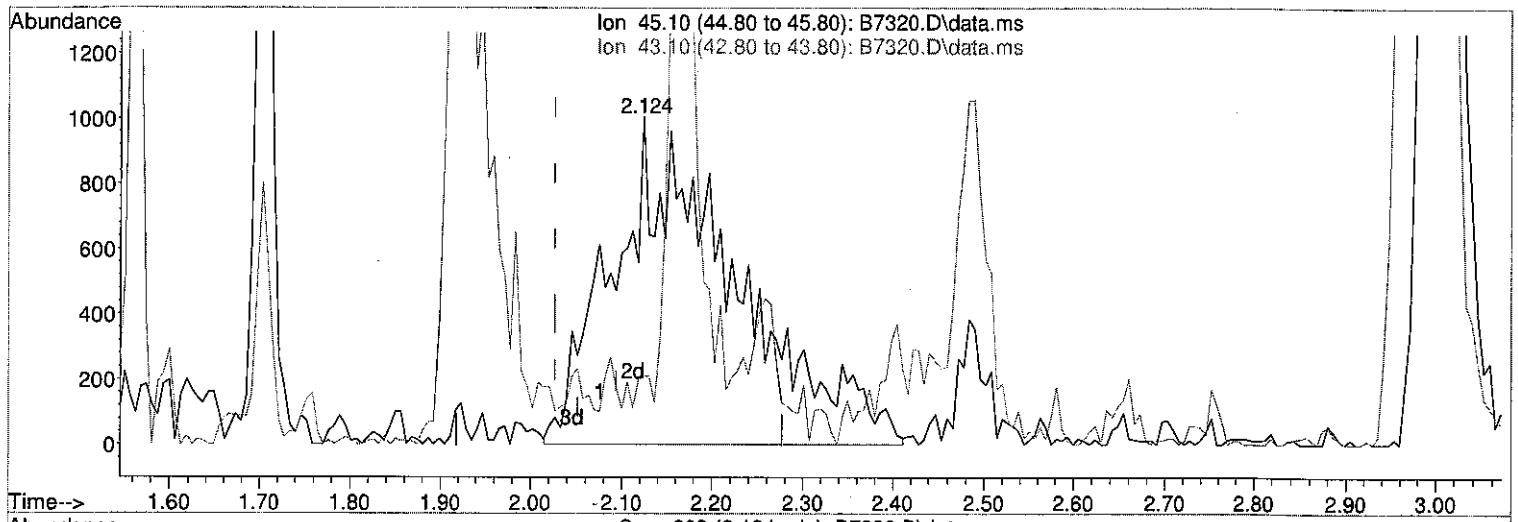
08/03/16

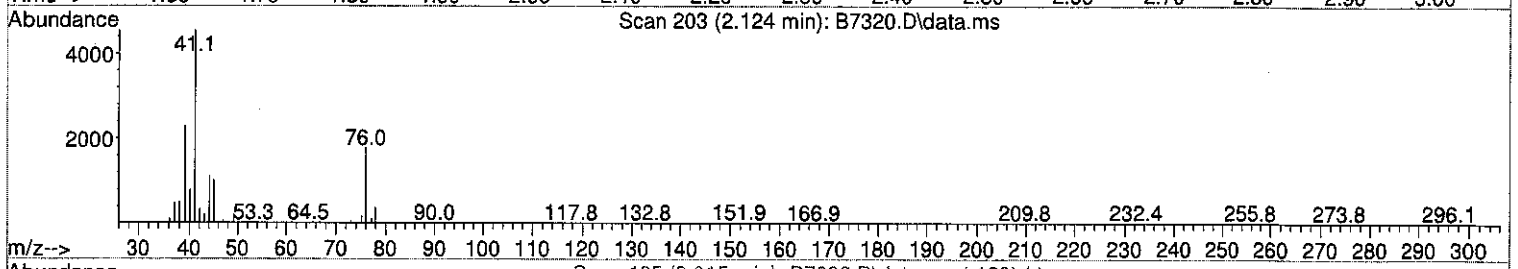
1st FN 08/04/16
2nd KR 08/04/16

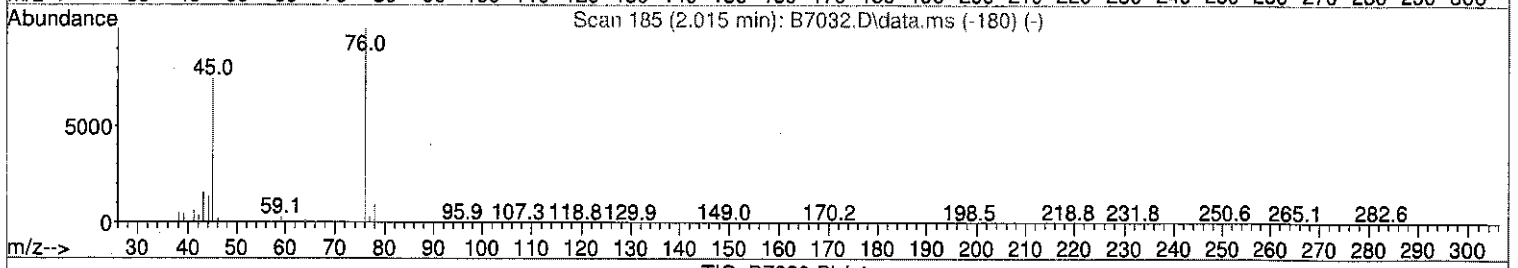
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\080316\
Data File : B7320.D
Acq On : 3 Aug 2016 10:49 am
Operator : F.Naegler
Sample : 1.0 PPB STD Inst : MSVOA14
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 03 11:17:17 2016
Quant Method : I:\ACQUDATA\MSVOA14\Methods\S080316.M
Quant Title : MS#14 - 8260 SOILS 10ml PURGE
QLast Update : Wed Aug 03 09:03:16 2016
Response via : Initial Calibration







TIC: B7320.D\data.ms

(16) 2-Propanol

2.124min (+0.097) 25.42 ug/L m

response 9379

Ion	Exp%	Act%
45.10	100	100
43.10	21.50	20.68
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

Peak not found.

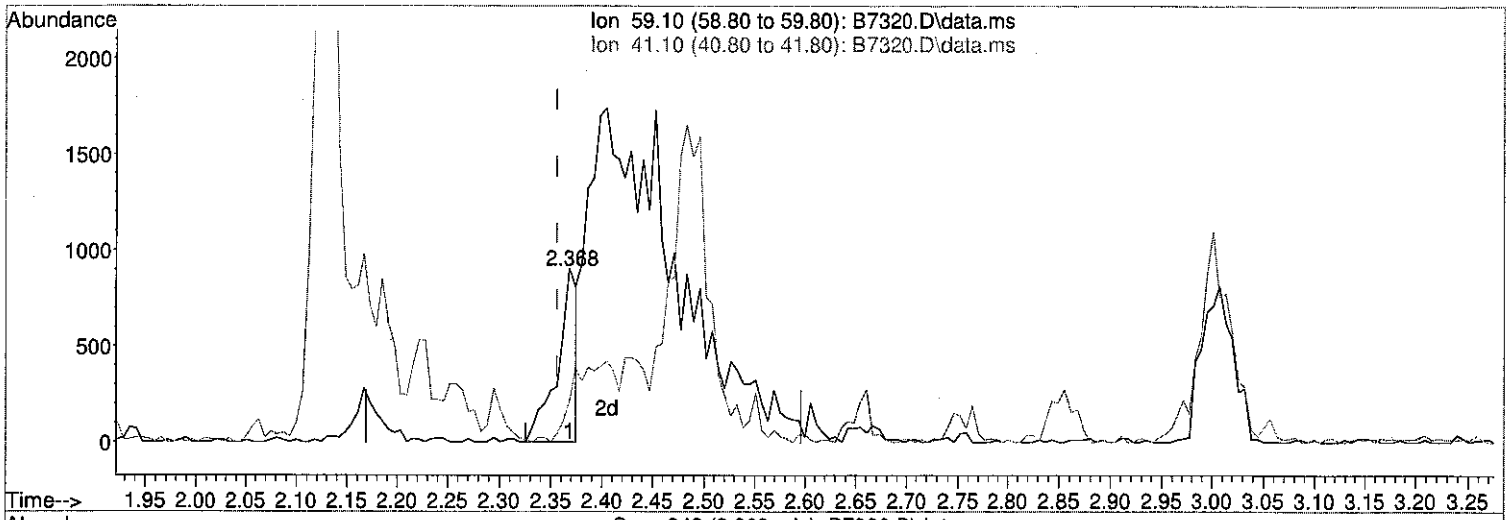
08/03/16

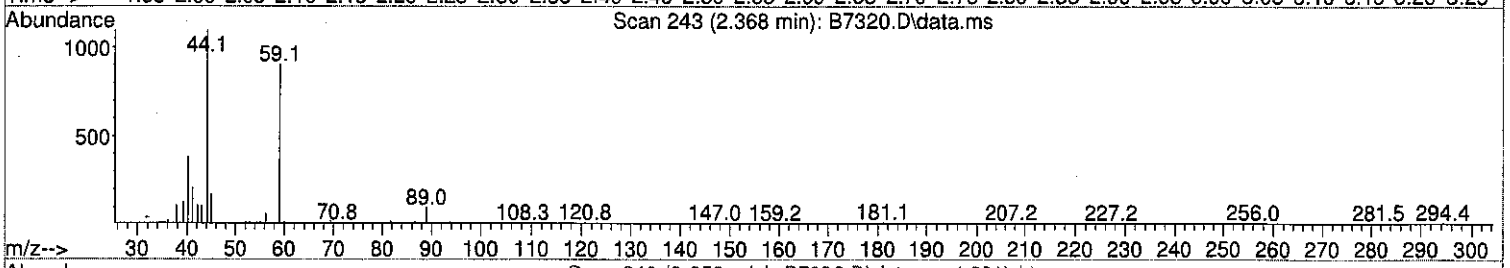
1st FN 08/04/16
2nd KR 08/04/16

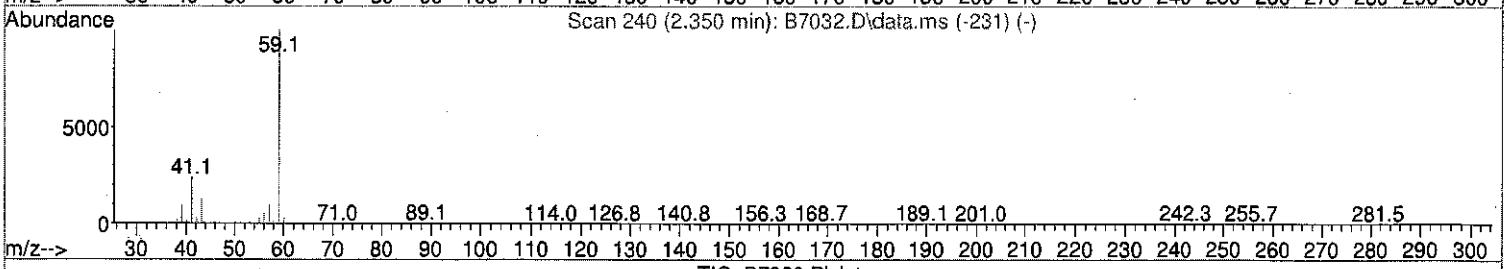
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\080316\
Data File : B7320.D
Acq On : 3 Aug 2016 10:49 am
Operator : F.Naegler
Sample : 1.0 PPB STD Inst : MSVOA14
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 03 11:18:17 2016
Quant Method : I:\ACQUDATA\MSVOA14\Methods\S080316.M
Quant Title : MS#14 - 8260 SOILS 10ml PURGE
QLast Update : Wed Aug 03 09:03:16 2016
Response via : Initial Calibration







TIC: B7320.D\data.ms

(23) TBA

2.368min (+0.012) 2.20 ug/L

response 1193

Ion	Exp%	Act%
59.10	100	100
41.10	18.40	23.26
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

Before

08/03/16

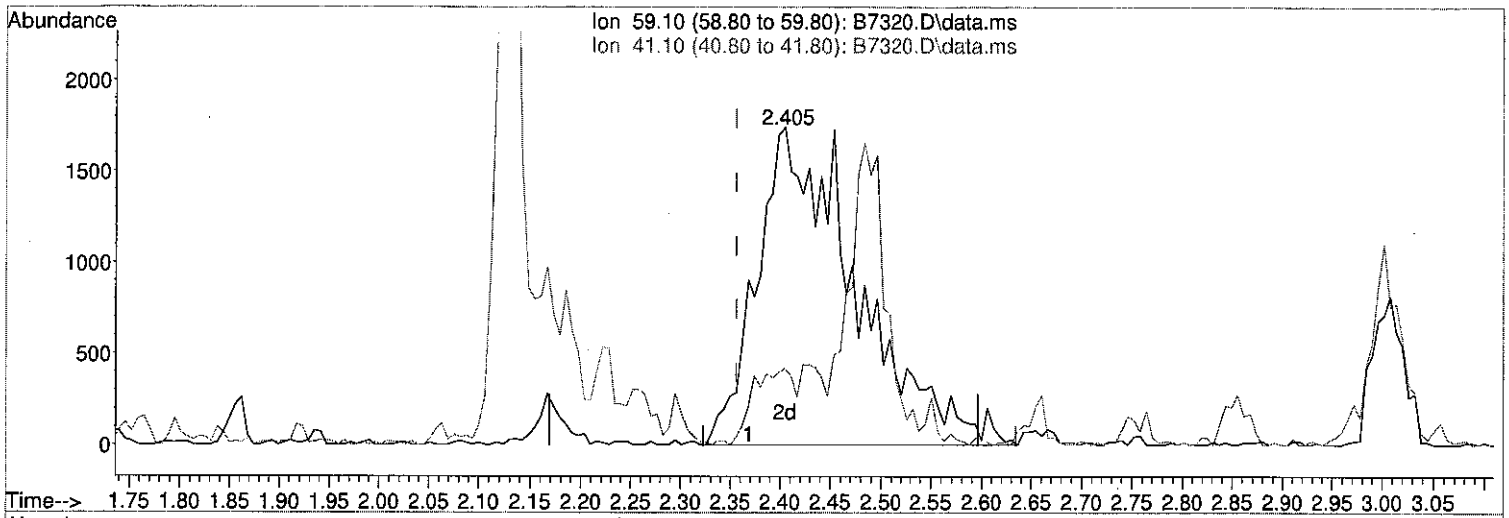
S080316.M Wed Aug 03 11:20:05 2016 MSVO10 Page: 1

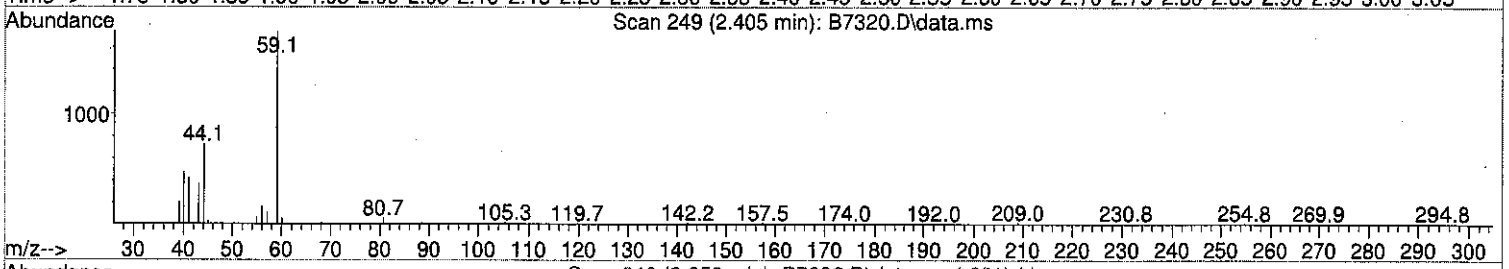
1st FN 08/04/16
2nd KR 08/04/16

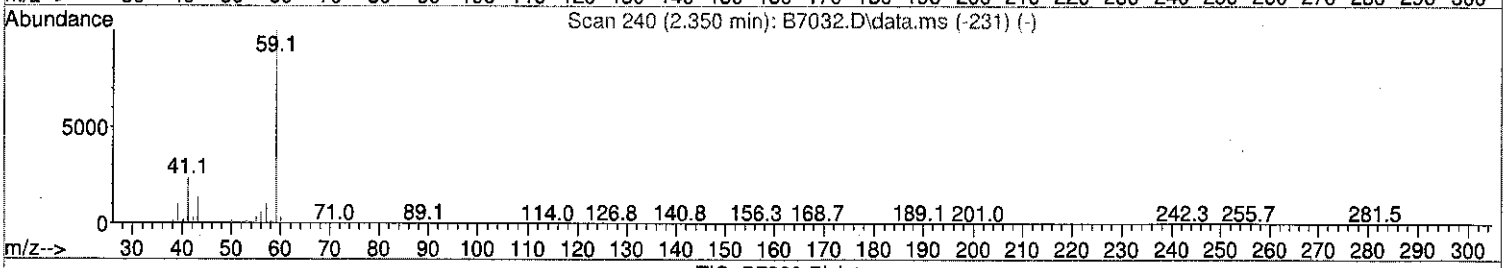
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\080316\
Data File : B7320.D
Acq On : 3 Aug 2016 10:49 am
Operator : F.Naegler
Sample : 1.0 PPB STD Inst : MSVOA14
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 03 11:18:17 2016
Quant Method : I:\ACQUDATA\MSVOA14\Methods\S080316.M
Quant Title : MS#14 - 8260 SOILS 10ml PURGE
QLast Update : Wed Aug 03 09:03:16 2016
Response via : Initial Calibration







TIC: B7320.D\data.ms

(23) TBA

2.405min (+0.049) 21.92 ug/L m

response 11863

Ion	Exp%	Act%
59.10	100	100
41.10	18.40	24.15
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

Peak not found.

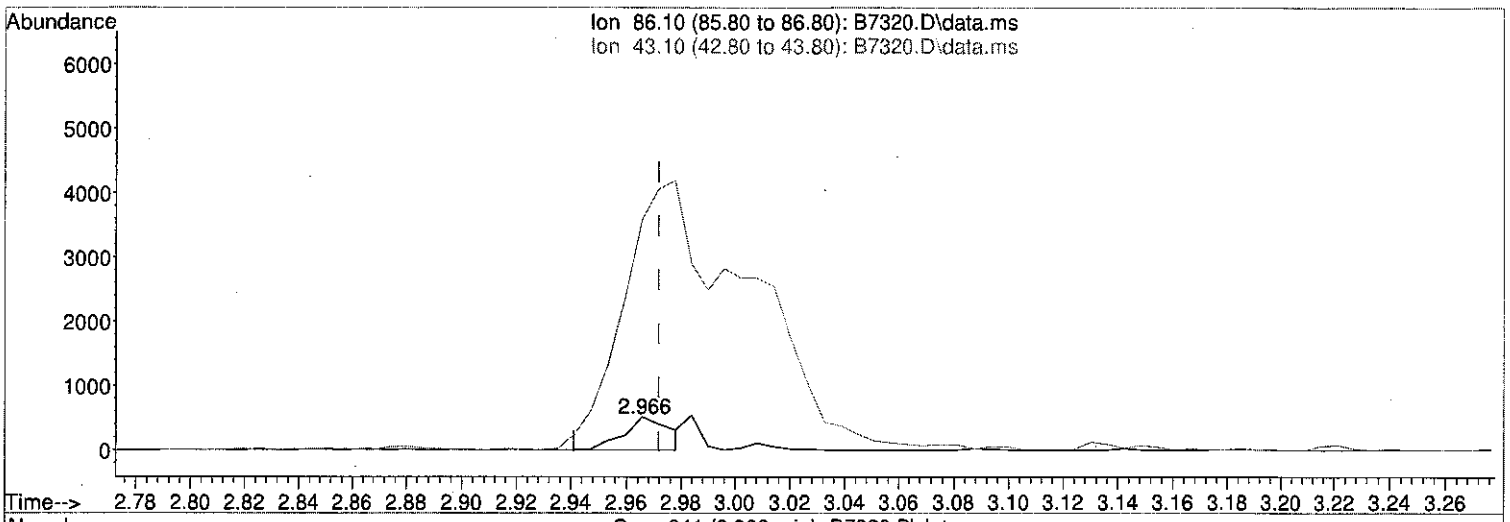
08/03/16

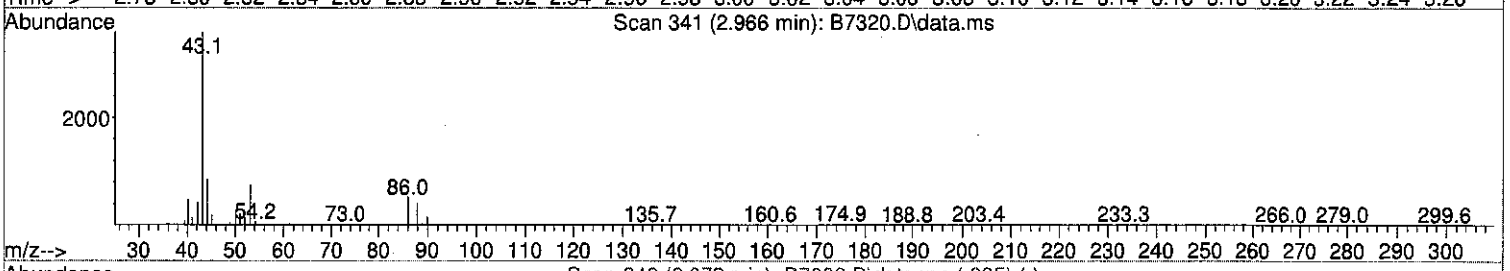
1st FN 08/04/16
2nd WR 08/04/16

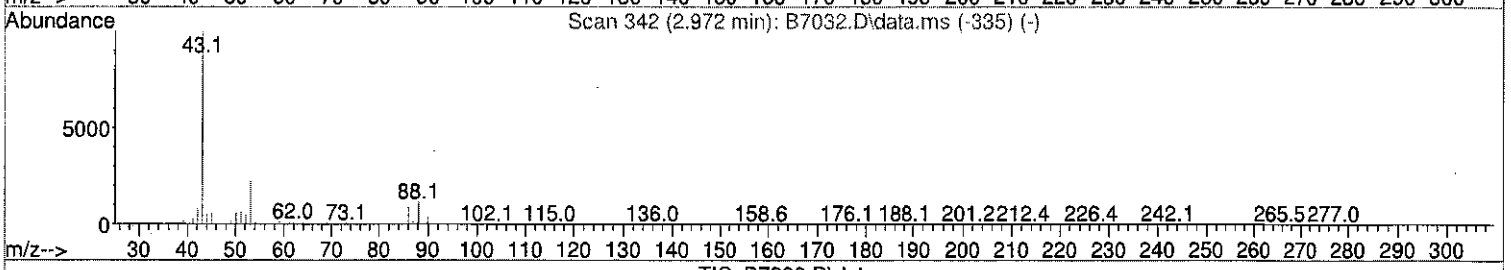
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\080316\
Data File : B7320.D
Acq On : 3 Aug 2016 10:49 am
Operator : F.Naegler
Sample : 1.0 PPB STD Inst : MSVOA14
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 03 11:18:17 2016
Quant Method : I:\ACQUDATA\MSVOA14\Methods\S080316.M
Quant Title : MS#14 - 8260 SOILS 10ml PURGE
QLast Update : Wed Aug 03 09:03:16 2016
Response via : Initial Calibration







TIC: B7320.D\data.ms

(28) Vinyl Acetate

2.966min (-0.006) 0.74 ug/L

response 589

Ion	Exp%	Act%
86.10	100	100
43.10	834.50	695.72#
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

Before

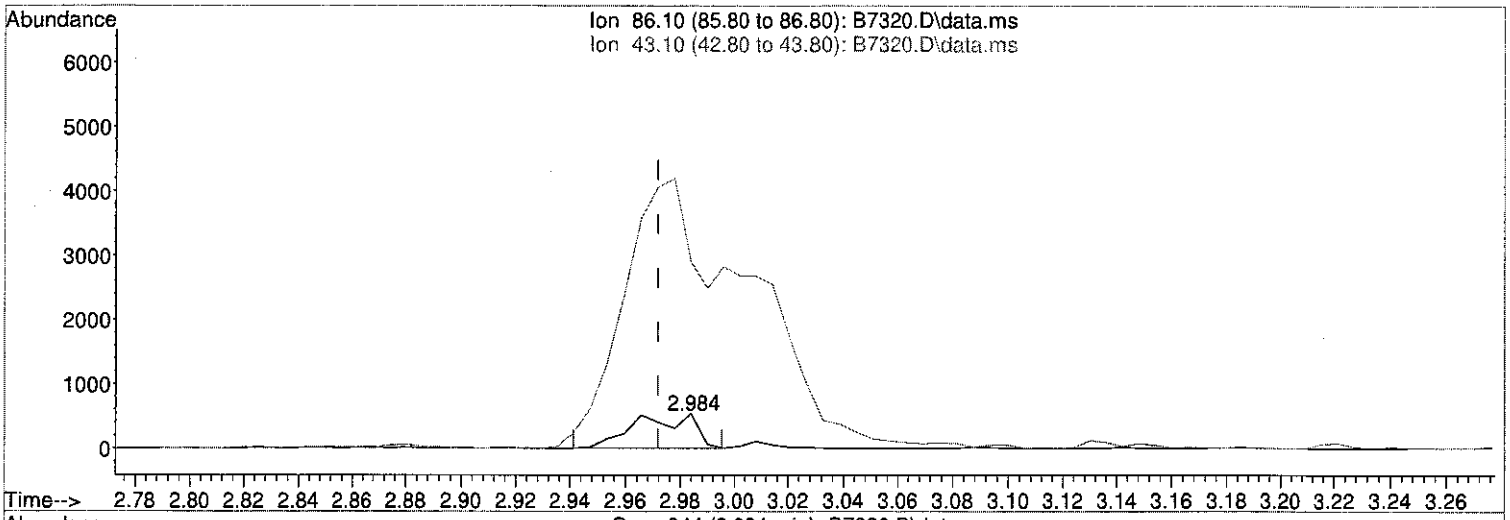
08/03/16

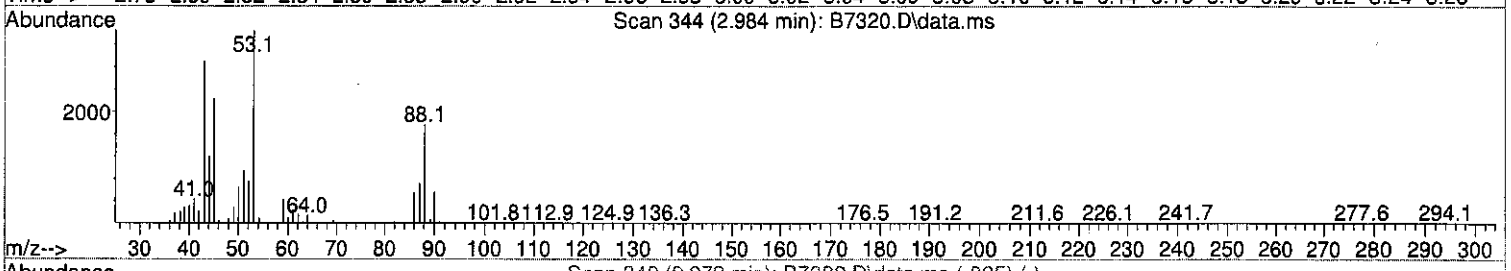
1st FN 08/04/16
2nd KR 08/04/16

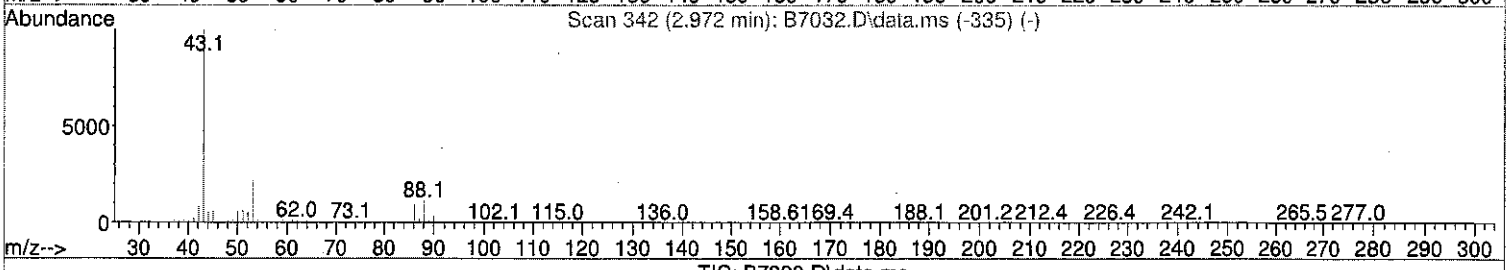
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\080316\
Data File : B7320.D
Acq On : 3 Aug 2016 10:49 am
Operator : F.Naegler
Sample : 1.0 PPB STD Inst : MSVOA14
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 03 11:18:17 2016
Quant Method : I:\ACQUDATA\MSVOA14\Methods\S080316.M
Quant Title : MS#14 - 8260 SOILS 10ml PURGE
QLast Update : Wed Aug 03 09:03:16 2016
Response via : Initial Calibration







TIC: B7320.D\data.ms

(28) Vinyl Acetate

2.984min (+0.012) 1.02 ug/L m

response 808

Ion	Exp%	Act%
86.10	100	100
43.10	834.50	537.85#
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

Poor integration.

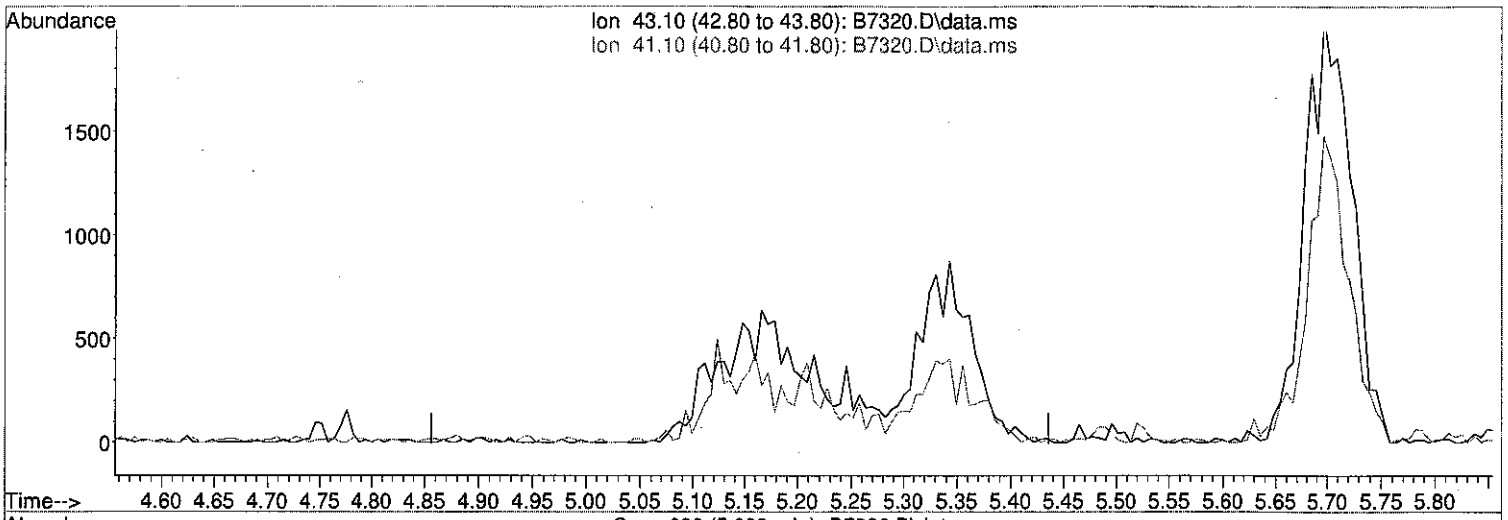
08/03/16

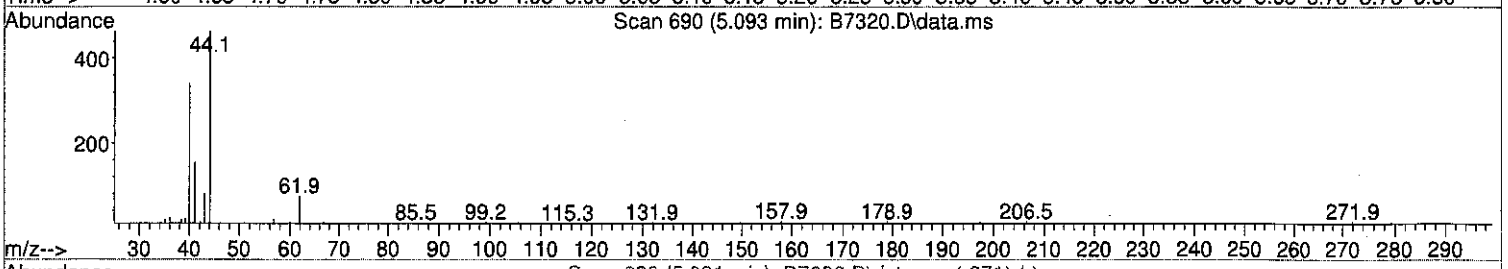
1st FN 08/04/16
2nd KR 08/04/16

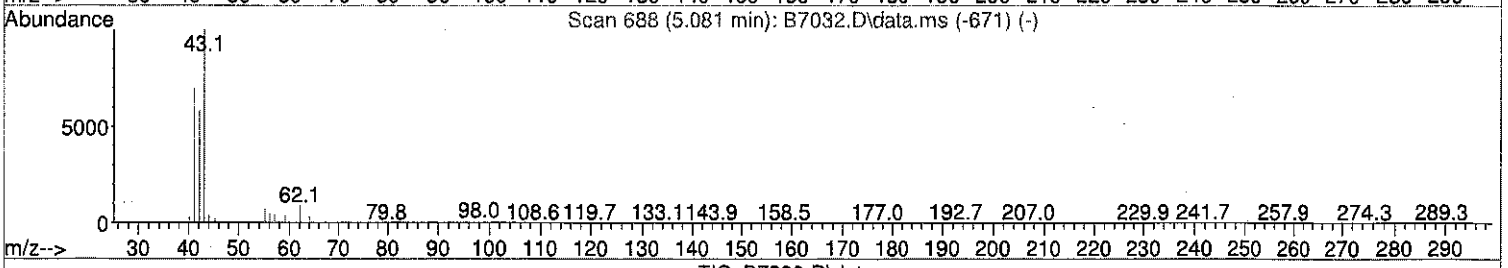
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\080316\
Data File : B7320.D
Acq On : 3 Aug 2016 10:49 am
Operator : F.Naegler
Sample : 1.0 PPB STD Inst : MSVOA14
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 03 11:18:17 2016
Quant Method : I:\ACQUDATA\MSVOA14\Methods\S080316.M
Quant Title : MS#14 - 8260 SOILS 10ml PURGE
QLast Update : Wed Aug 03 09:03:16 2016
Response via : Initial Calibration







TIC: B7320.D\data.ms

(50) Iso-Butyl Alcohol

5.093min (-5.093) 0.00 ug/L

response 0

Ion	Exp%	Act%
43.10	100	0.00
41.10	73.80	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

Before

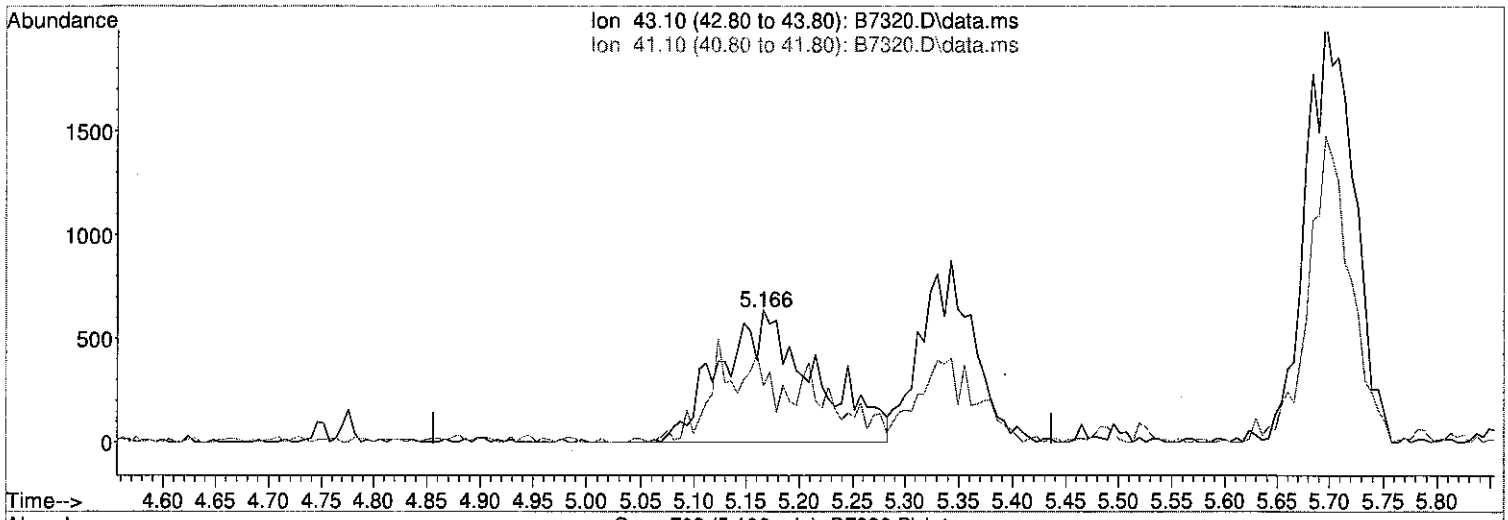
08/03/16

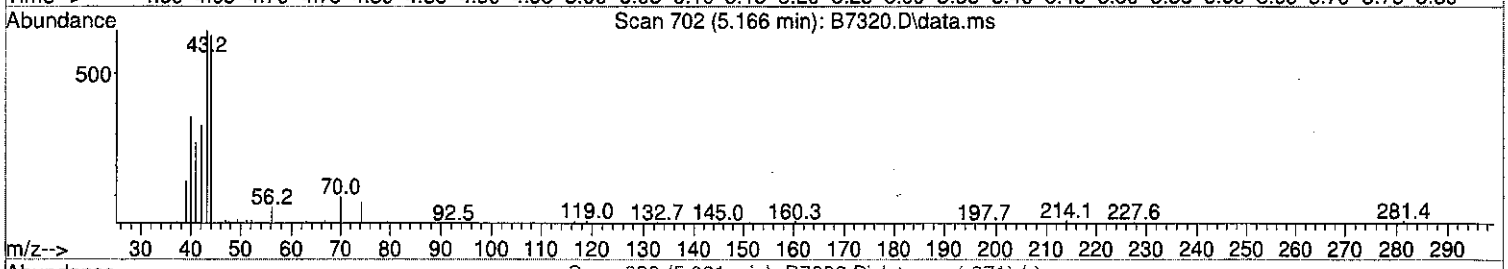
1st FN 08/04/16
2nd KR 08/04/16

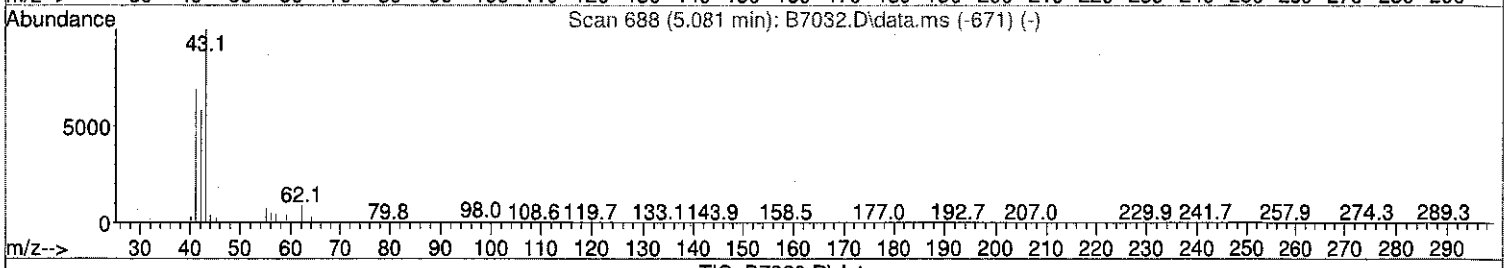
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\080316\
Data File : B7320.D
Acq On : 3 Aug 2016 10:49 am
Operator : F.Naegler
Sample : 1.0 PPB STD Inst : MSVOA14
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 03 11:18:17 2016
Quant Method : I:\ACQUDATA\MSVOA14\Methods\S080316.M
Quant Title : MS#14 - 8260 SOILS 10ml PURGE
QLast Update : Wed Aug 03 09:03:16 2016
Response via : Initial Calibration







TIC: B7320.D\data.ms

(50) Iso-Butyl Alcohol

5.166min (+0.073) 16.36 ug/L m

response 3907

Ion	Exp%	Act%
43.10	100	100
41.10	73.80	42.70#
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

Peak not found.

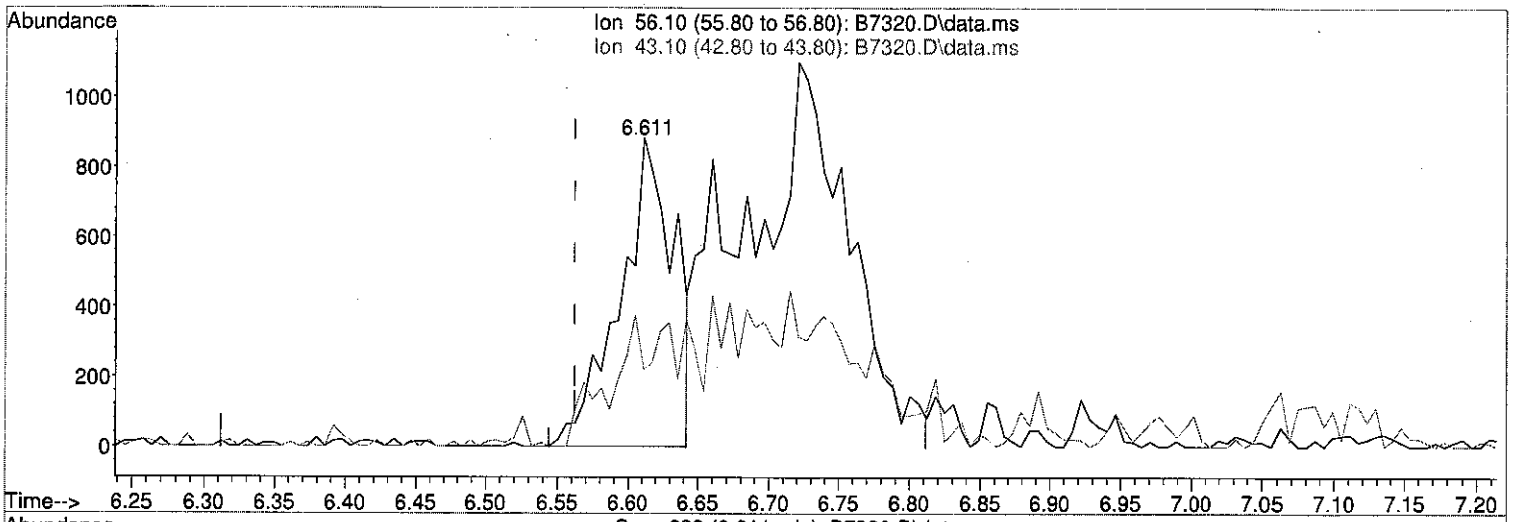
08/03/16

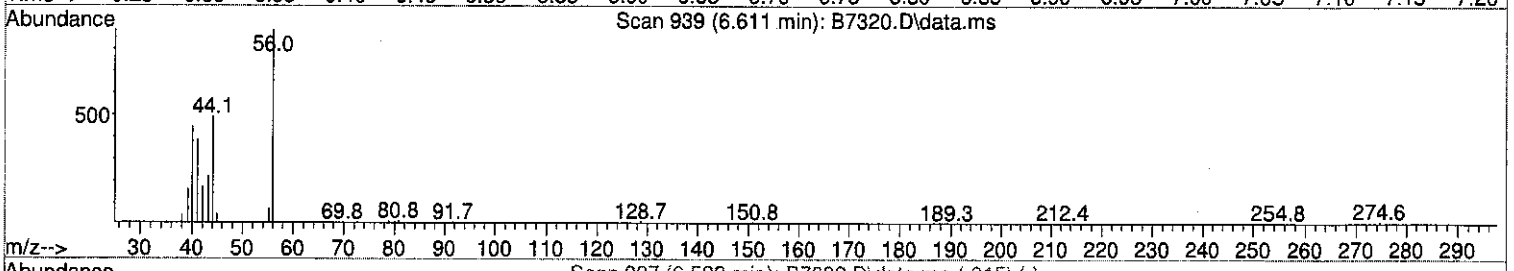
1st FN 08/04/16
2nd KR 08/04/16

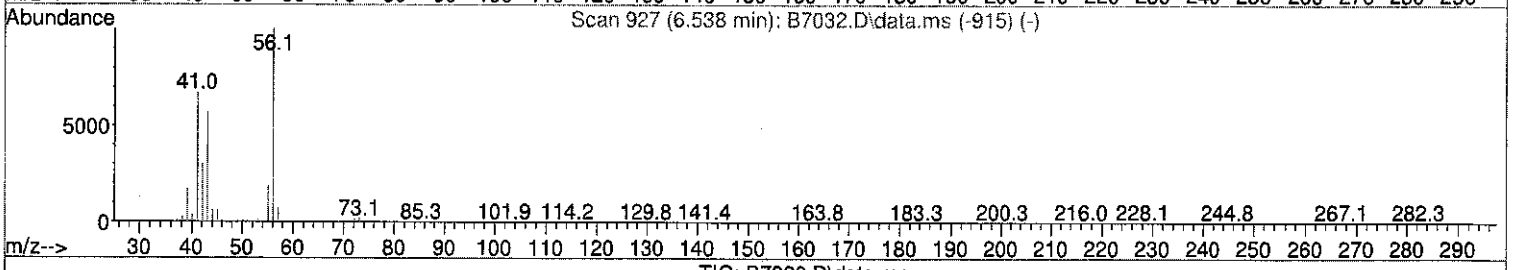
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\080316\
Data File : B7320.D
Acq On : 3 Aug 2016 10:49 am
Operator : F.Naegler
Sample : 1.0 PPB STD Inst : MSVOA14
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 03 11:18:17 2016
Quant Method : I:\ACQUDATA\MSVOA14\Methods\S080316.M
Quant Title : MS#14 - 8260 SOILS 10ml PURGE
QLast Update : Wed Aug 03 09:03:16 2016
Response via : Initial Calibration







TIC: B7320.D\data.ms

(52) 1-Butanol

6.611min (+0.049) 35.33 ug/L

response 2366

Ion	Exp%	Act%
56.10	100	100
43.10	51.10	24.58#
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

Before

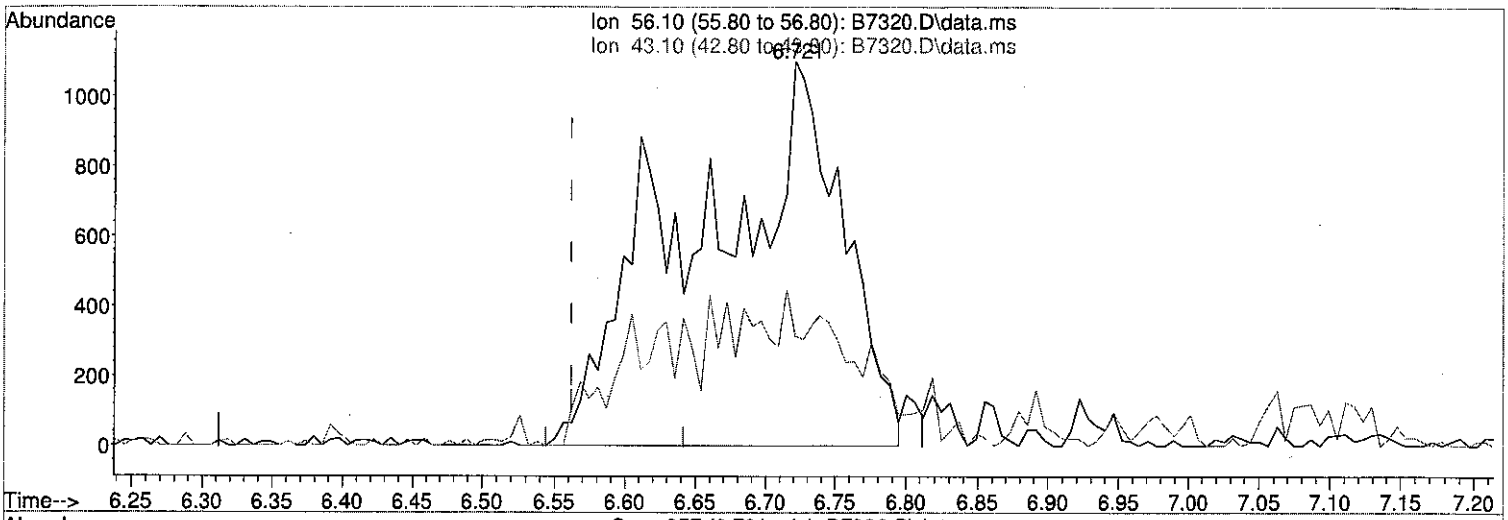
08/03/16

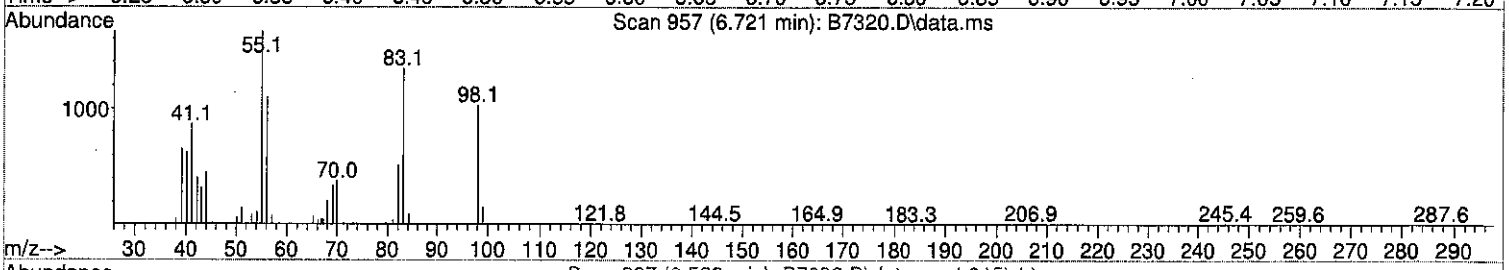
1st FN 08/04/16
2nd WR 08/04/16

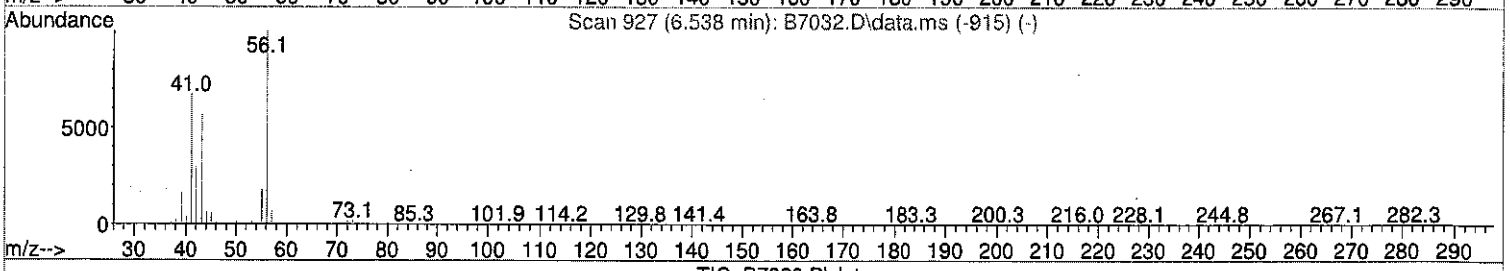
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\080316\
Data File : B7320.D
Acq On : 3 Aug 2016 10:49 am
Operator : F.Naegler
Sample : 1.0 PPB STD Inst : MSVOA14
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 03 11:18:17 2016
Quant Method : I:\ACQUDATA\MSVOA14\Methods\S080316.M
Quant Title : MS#14 - 8260 SOILS 10ml PURGE
QLast Update : Wed Aug 03 09:03:16 2016
Response via : Initial Calibration







TIC: B7320.D\data.ms

(52) 1-Butanol

6.721min (+0.159) 72.38 ug/L m

response 7899

Ion	Exp%	Act%
56.10	100	100
43.10	51.10	28.64#
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

Poor integration.

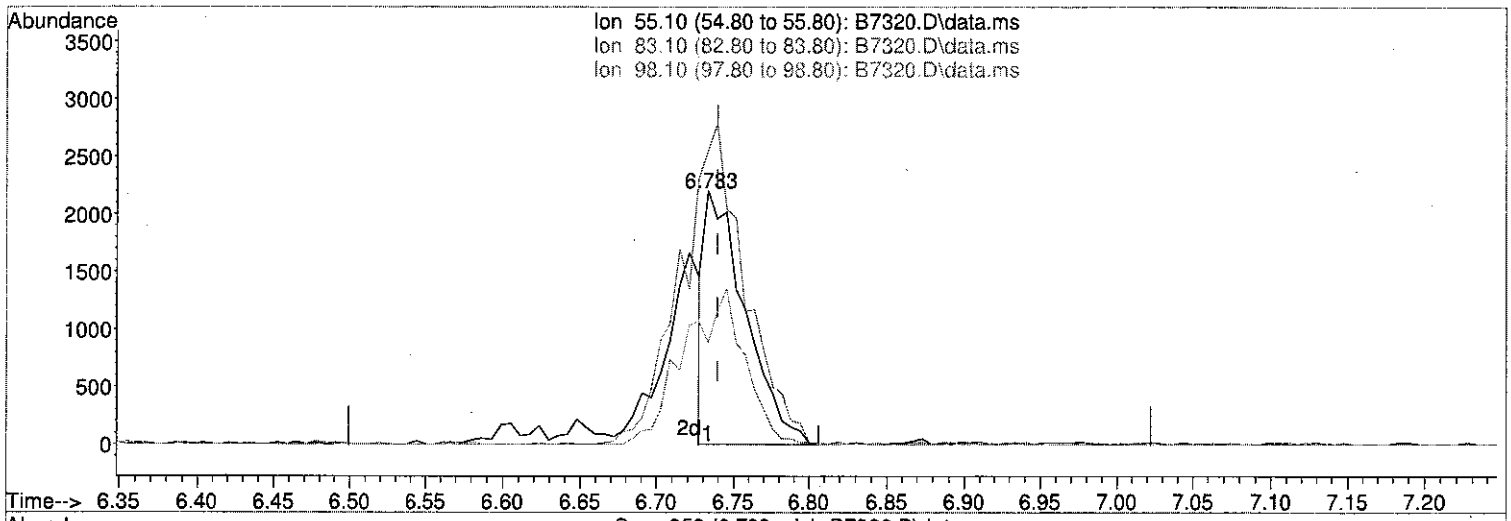
08/03/16

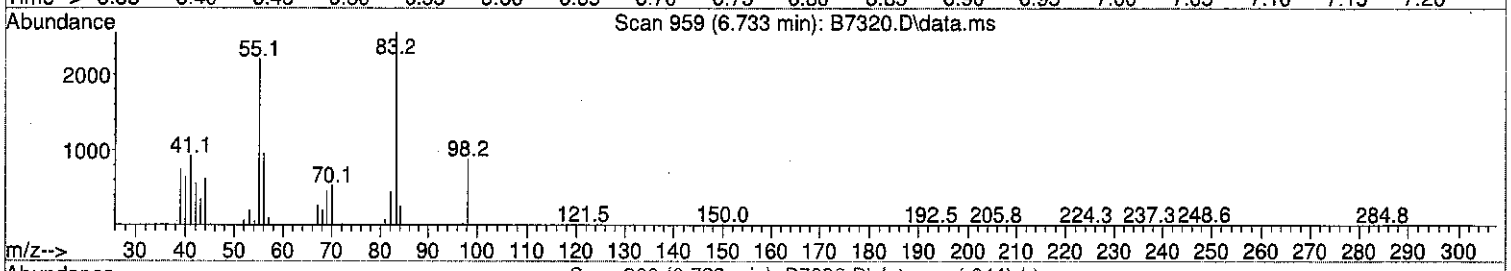
1st FN 08/04/16
2nd KR 08/04/16

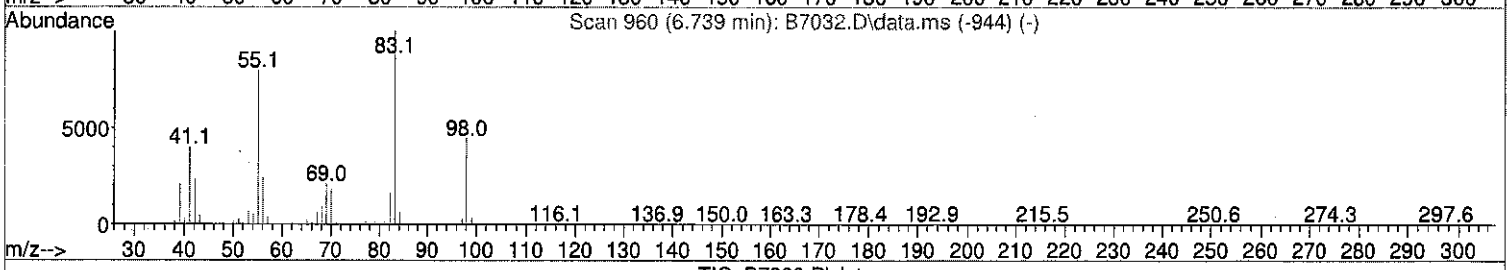
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\080316\
Data File : B7320.D
Acq On : 3 Aug 2016 10:49 am
Operator : F.Naegler
Sample : 1.0 PPB STD Inst : MSVOA14
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 03 11:18:17 2016
Quant Method : I:\ACQUDATA\MSVOA14\Methods\S080316.M
Quant Title : MS#14 - 8260 SOILS 10ml PURGE
QLast Update : Wed Aug 03 09:03:16 2016
Response via : Initial Calibration







TIC: B7320.D\data.ms

(54) Methylcyclohexane (P)

6.733min (-0.006) 0.78 ug/L

response 4056

Ion	Exp%	Act%
55.10	100	100
83.10	133.70	116.10
98.10	65.30	40.15#
0.00	0.00	0.00

Manual Integration:

Before

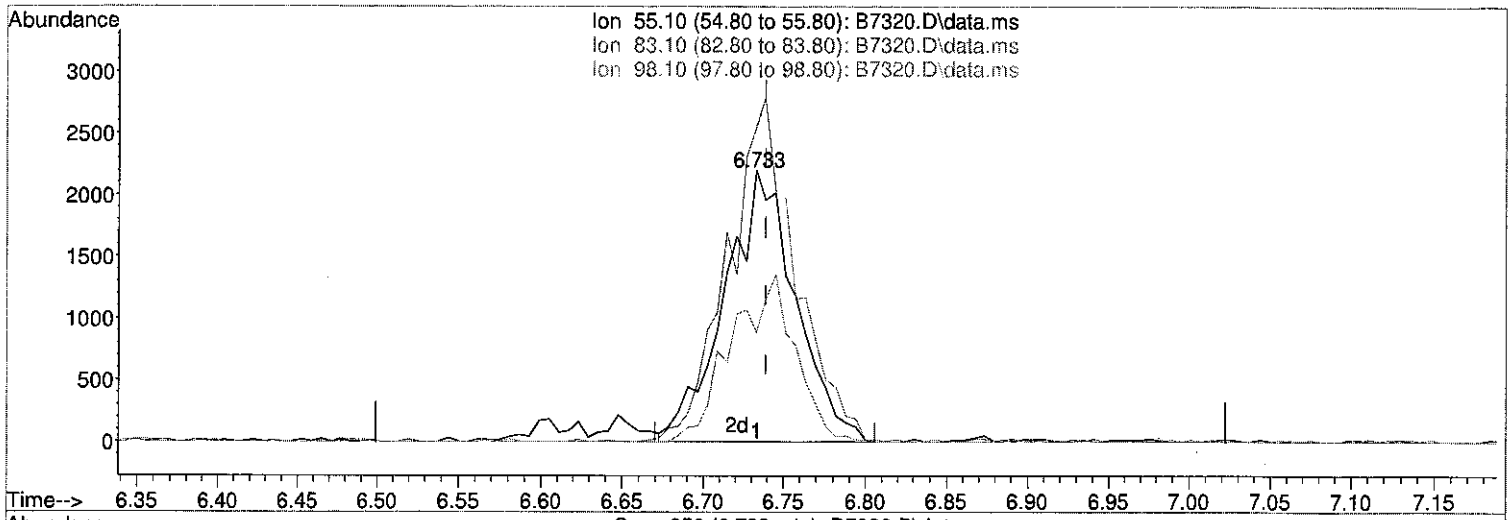
08/03/16

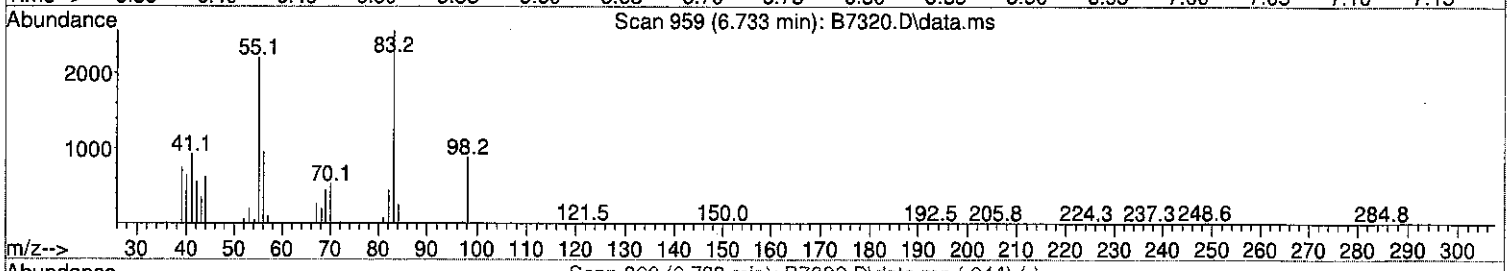
1st FN 08/04/16
2nd MR 08/04/16

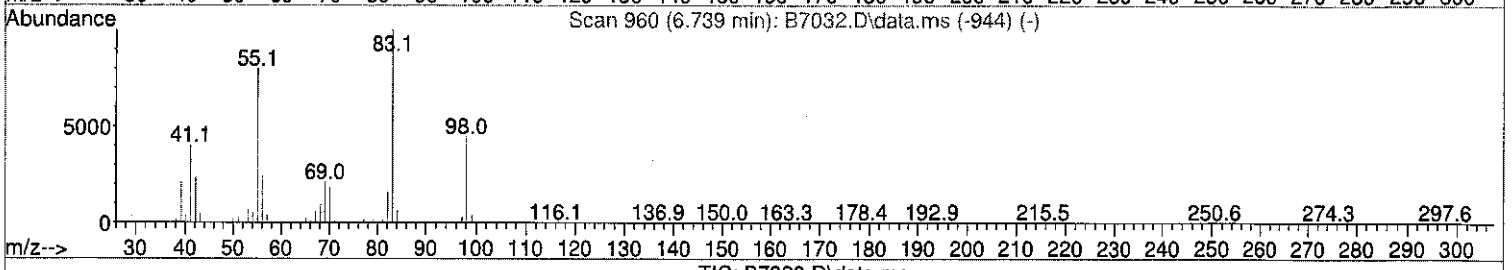
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\080316\
Data File : B7320.D
Acq On : 3 Aug 2016 10:49 am
Operator : F.Naegler
Sample : 1.0 PPB STD Inst : MSVOA14
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 03 11:18:17 2016
Quant Method : I:\ACQUDATA\MSVOA14\Methods\S080316.M
Quant Title : MS#14 - 8260 SOILS 10ml PURGE
QLast Update : Wed Aug 03 09:03:16 2016
Response via : Initial Calibration







TIC: B7320.D\data.ms

(54) Methylcyclohexane (P)

6.733min (-0.006) 1.29 ug/L m

response 6690

Ion	Exp%	Act%
55.10	100	100
83.10	133.70	116.10
98.10	65.30	40.15#
0.00	0.00	0.00

Manual Integration:

After

Poor integration.

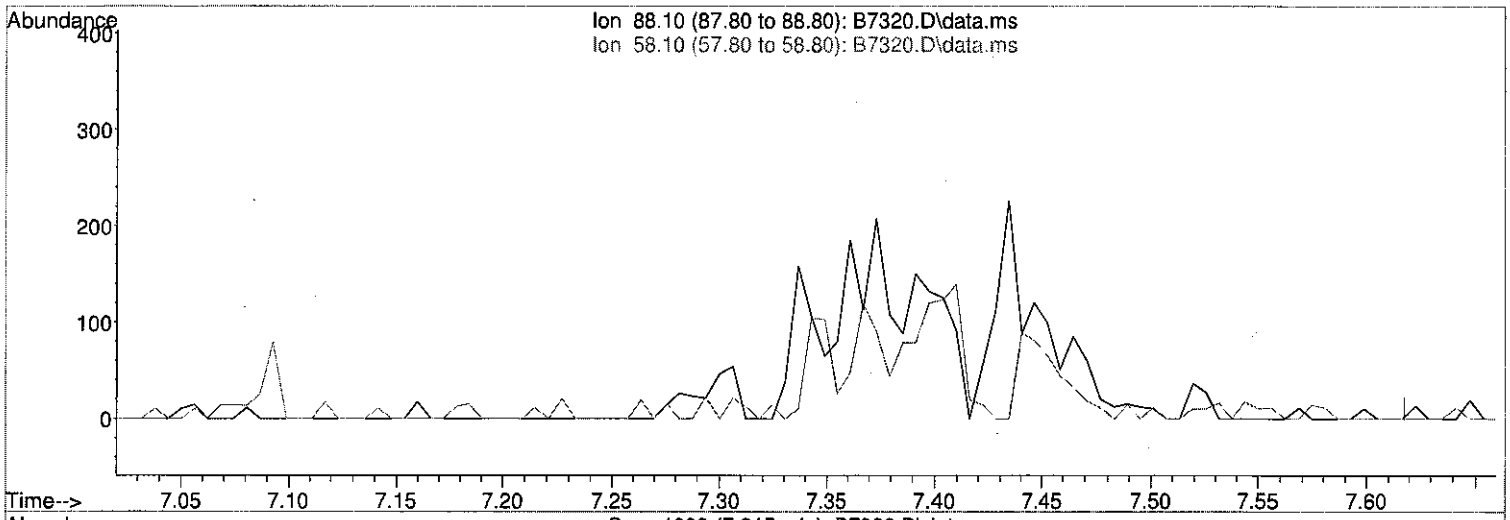
08/03/16

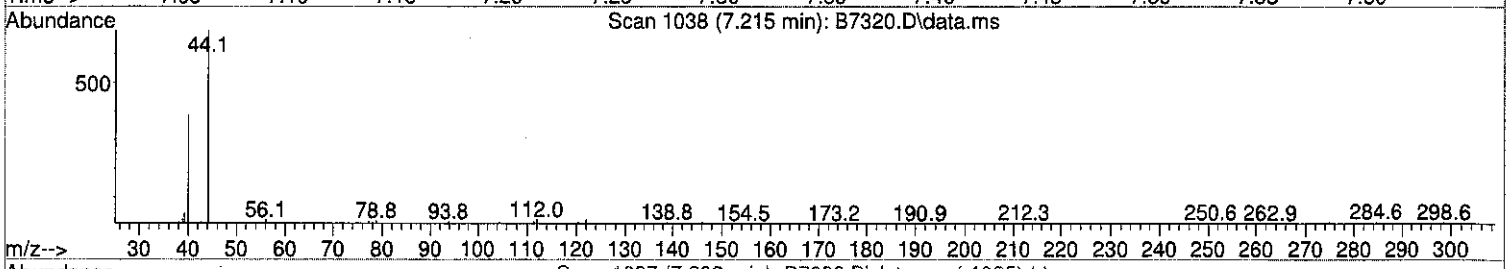
1st FN 08/04/16
2nd KR 08/04/16

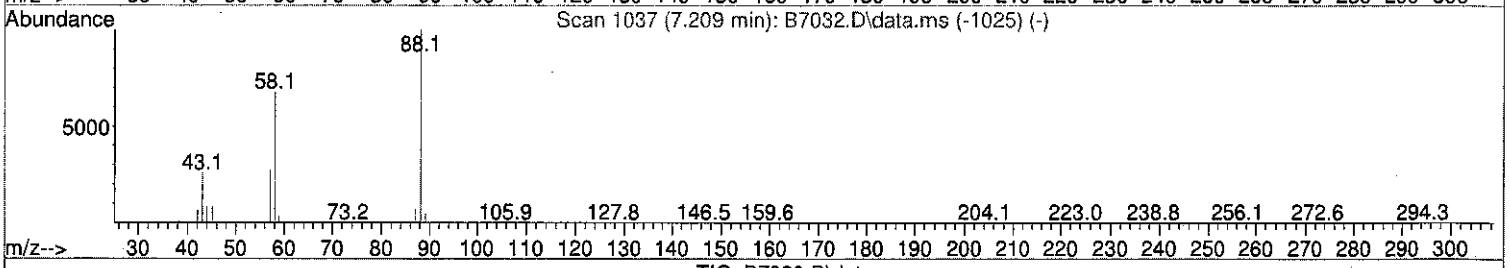
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\080316\
Data File : B7320.D
Acq On : 3 Aug 2016 10:49 am
Operator : F.Naegler
Sample : 1.0 PPB STD Inst : MSVOA14
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 03 11:28:50 2016
Quant Method : I:\ACQUDATA\MSVOA14\Methods\S080316.M
Quant Title : MS#14 - 8260 SOILS 10ml PURGE
QLast Update : Wed Aug 03 09:03:16 2016
Response via : Initial Calibration







TIC: B7320.D\data.ms

(57) 1,4-Dioxane

7.215min (-7.215) 0.00 ug/L

response 0

Ion	Exp%	Act%
88.10	100	0.00
58.10	58.00	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

Before

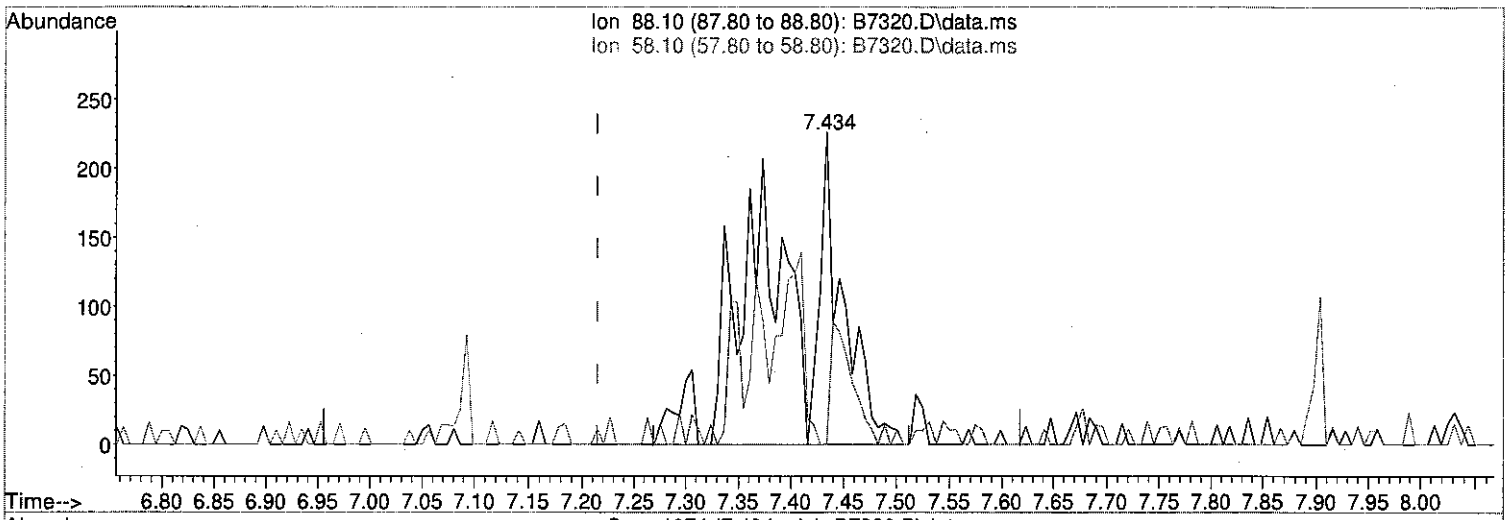
08/03/16

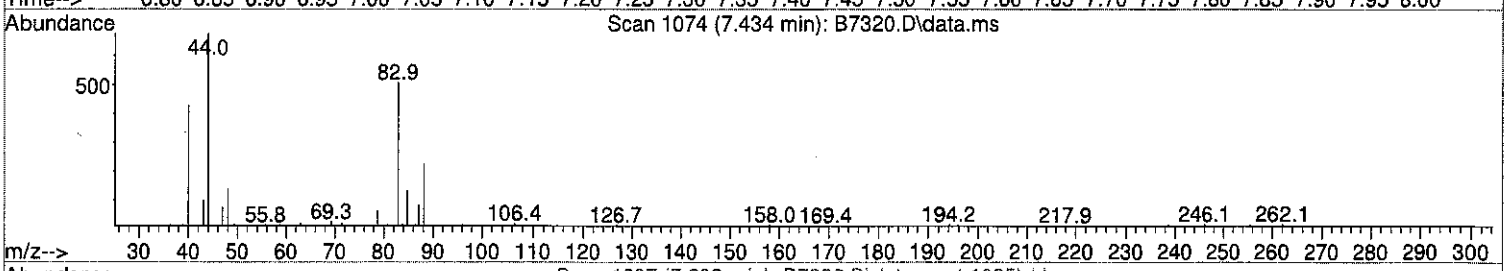
1st FN 08/04/16
2nd NR 08/04/16

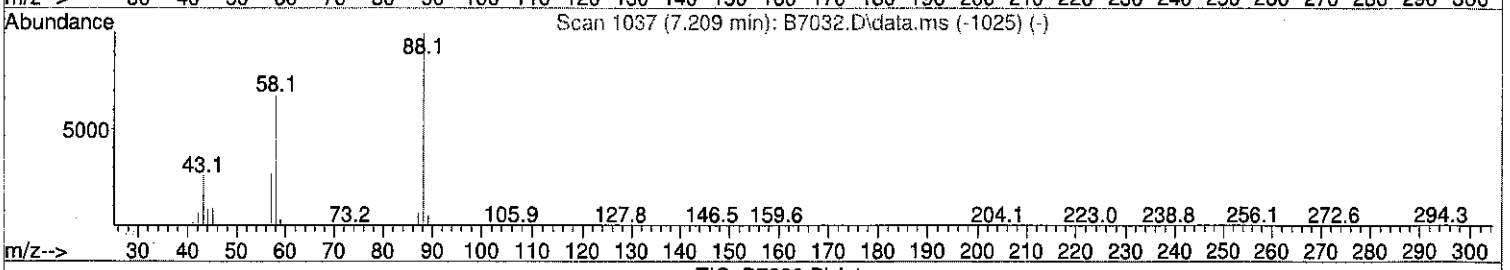
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\080316\
Data File : B7320.D
Acq On : 3 Aug 2016 10:49 am
Operator : F.Naegler
Sample : 1.0 PPB STD Inst : MSVOA14
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 03 11:28:50 2016
Quant Method : I:\ACQUDATA\MSVOA14\Methods\S080316.M
Quant Title : MS#14 - 8260 SOILS 10ml PURGE
QLast Update : Wed Aug 03 09:03:16 2016
Response via : Initial Calibration







TIC: B7320.D\data.ms

(57) 1,4-Dioxane

7.434min (+0.219) 16.13 ug/L m

response 1023

Ion	Exp%	Act%
88.10	100	100
58.10	58.00	6.64#
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

Peak not found.

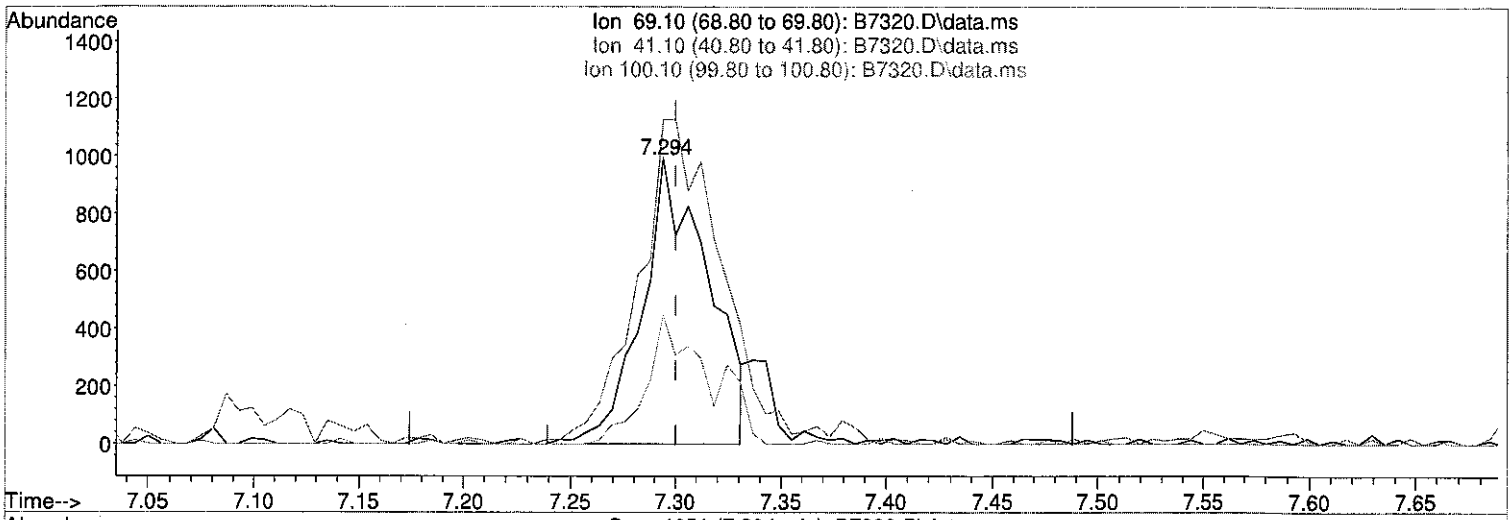
08/03/16

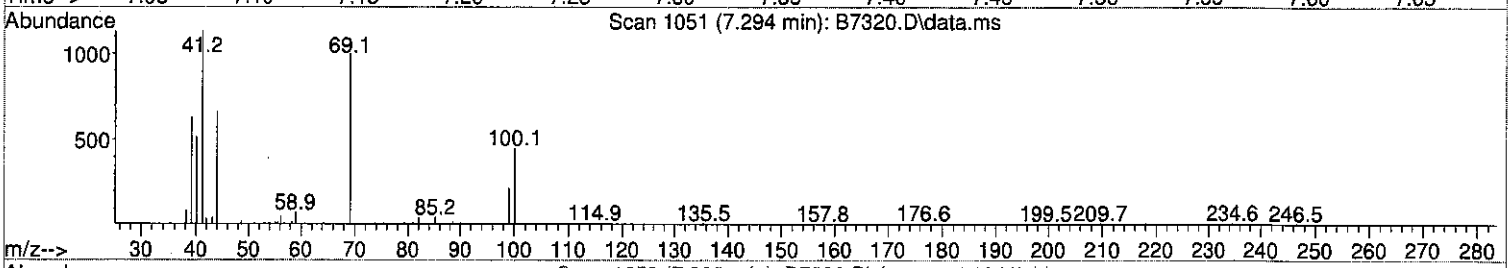
1st FN 08/04/16
2nd WR 08/04/16

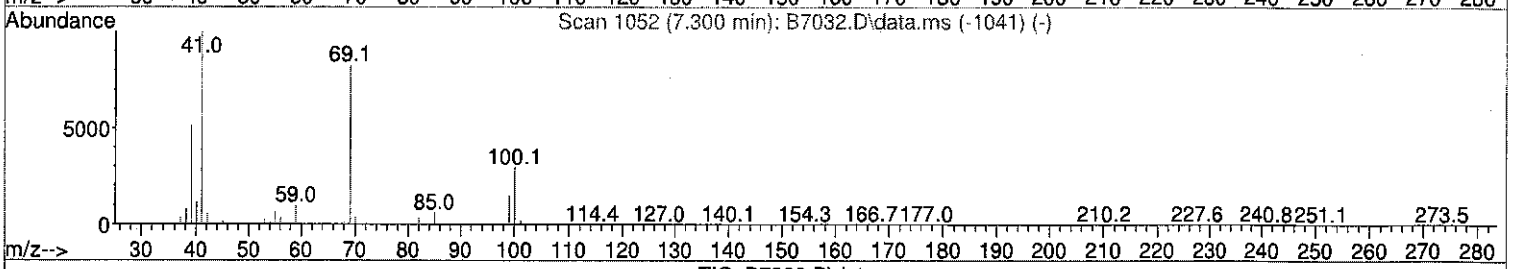
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\080316\
Data File : B7320.D
Acq On : 3 Aug 2016 10:49 am
Operator : F.Naegler
Sample : 1.0 PPB STD Inst : MSVOA14
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 03 11:18:17 2016
Quant Method : I:\ACQUDATA\MSVOA14\Methods\S080316.M
Quant Title : MS#14 - 8260 SOILS 10ml PURGE
QLast Update : Wed Aug 03 09:03:16 2016
Response via : Initial Calibration







TIC: B7320.D\data.ms

(58) Methyl Methacrylate

7.294min (-0.006) 0.75 ug/L

response 2178

Ion	Exp%	Act%
69.10	100	100
41.10	116.00	113.17
100.10	41.80	45.03
0.00	0.00	0.00

Manual Integration:

Before

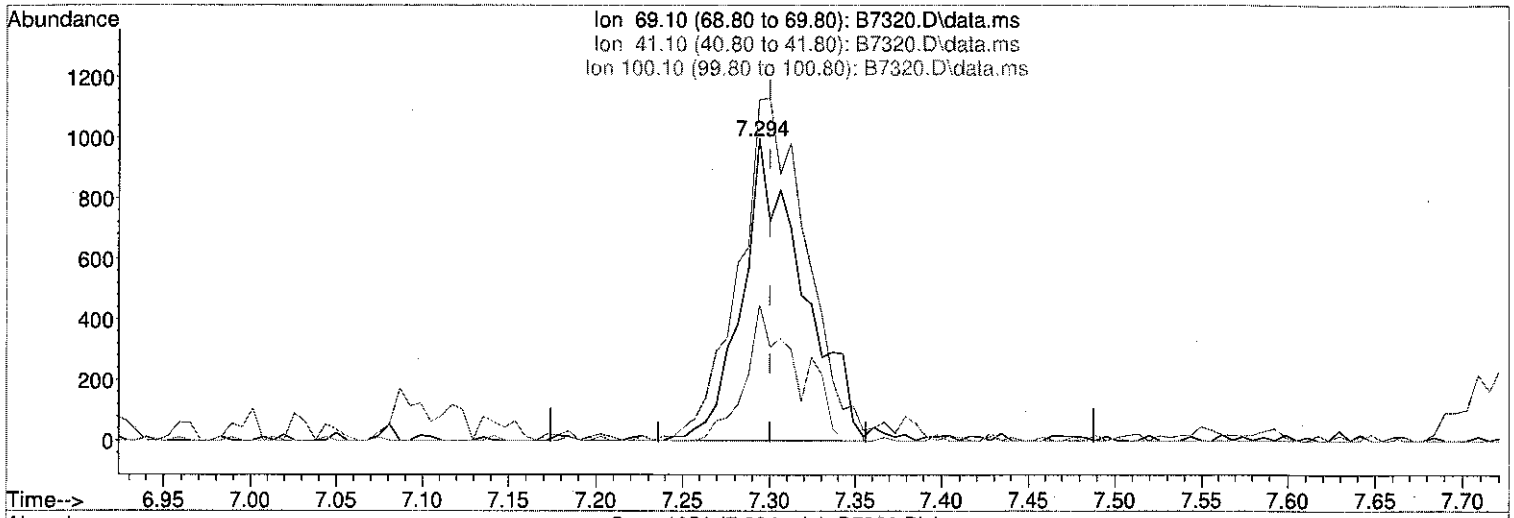
08/03/16

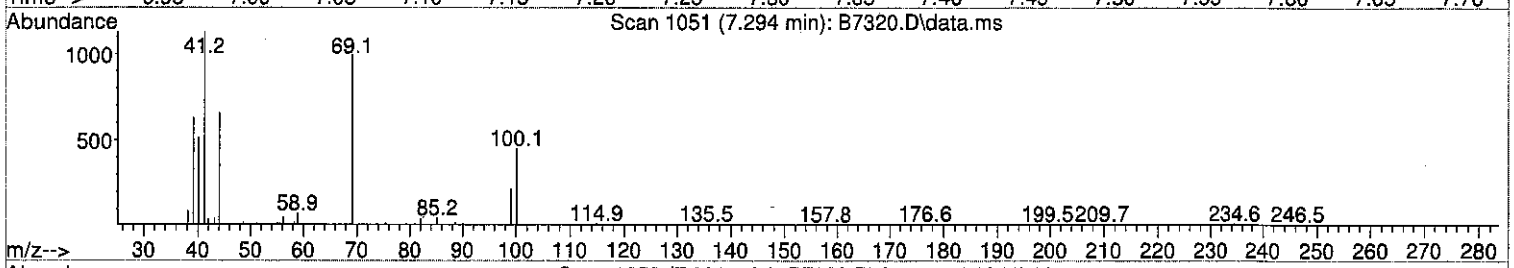
1st FN 08/04/16
2nd KR 08/04/16

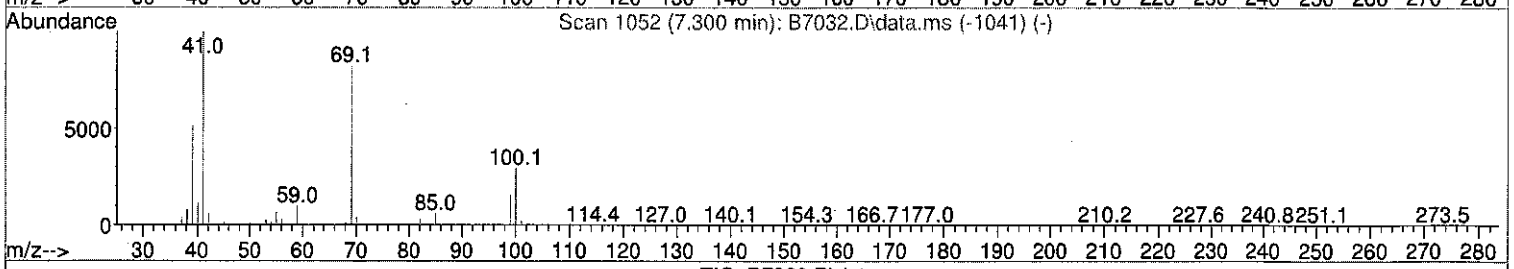
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\080316\
Data File : B7320.D
Acq On : 3 Aug 2016 10:49 am
Operator : F.Naegler
Sample : 1.0 PPB STD Inst : MSVOA14
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 03 11:18:17 2016
Quant Method : I:\ACQUDATA\MSVOA14\Methods\S080316.M
Quant Title : MS#14 - 8260 SOILS 10ml PURGE
QLast Update : Wed Aug 03 09:03:16 2016
Response via : Initial Calibration







TIC: B7320.D\data.ms

(58) Methyl Methacrylate

7.294min (-0.006) 0.83 ug/L m

response 2417

Ion	Exp%	Act%
69.10	100	100
41.10	116.00	113.17
100.10	41.80	45.03
0.00	0.00	0.00

Manual Integration:

After

Poor integration.

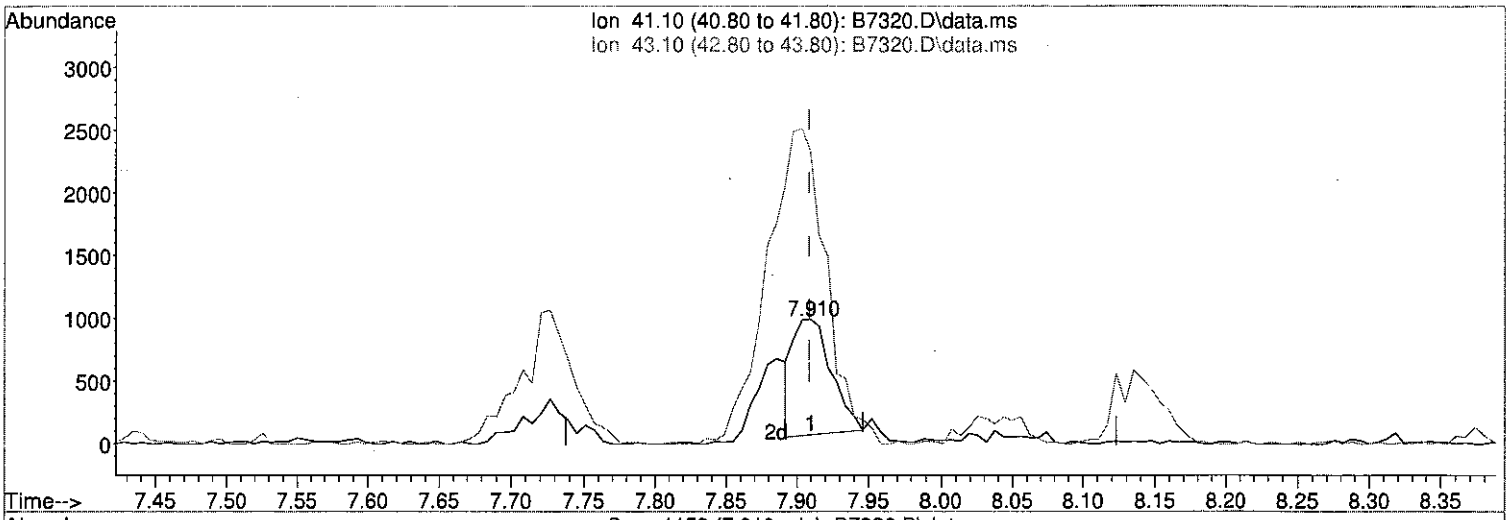
08/03/16

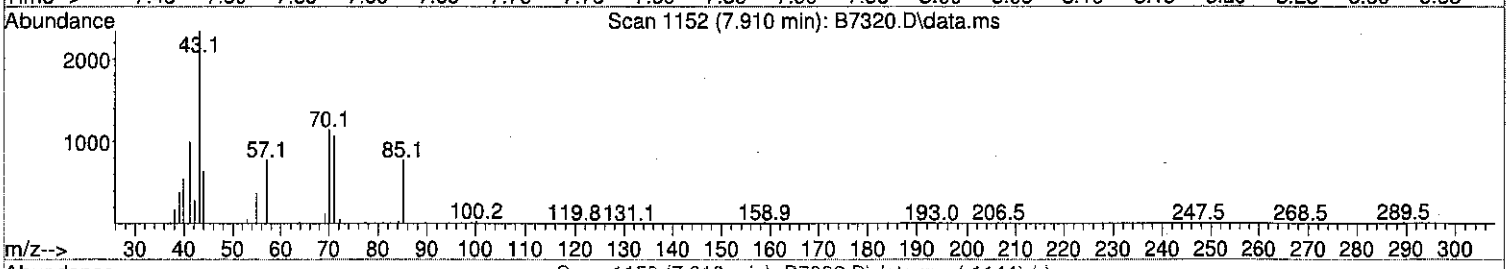
1st FW 08/04/16
2nd KR 08/04/16

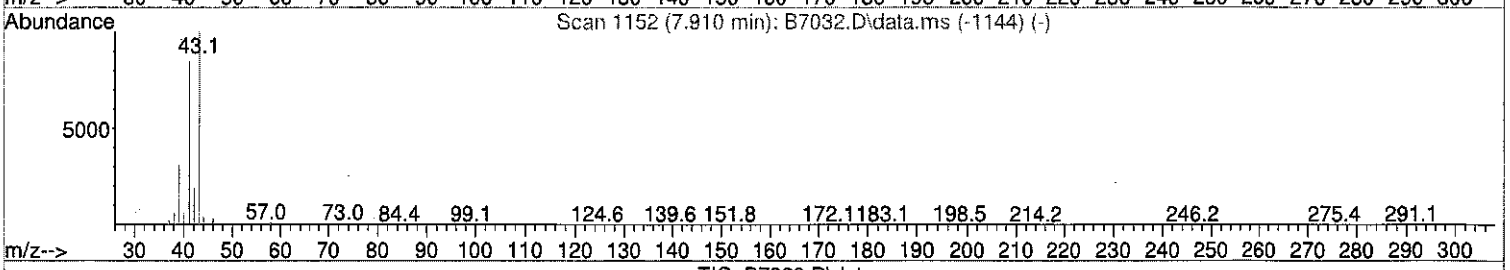
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\080316\
Data File : B7320.D
Acq On : 3 Aug 2016 10:49 am
Operator : F.Naegler
Sample : 1.0 PPB STD Inst : MSVOA14
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 03 11:18:17 2016
Quant Method : I:\ACQUDATA\MSVOA14\Methods\S080316.M
Quant Title : MS#14 - 8260 SOILS 10ml PURGE
QLast Update : Wed Aug 03 09:03:16 2016
Response via : Initial Calibration







TIC: B7320.D\data.ms

(60) 2-Nitropropane

7.910min (+0.001) 3.11 ug/L

response 1739

Ion	Exp%	Act%
41.10	100	100
43.10	115.10	235.31#
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

Before

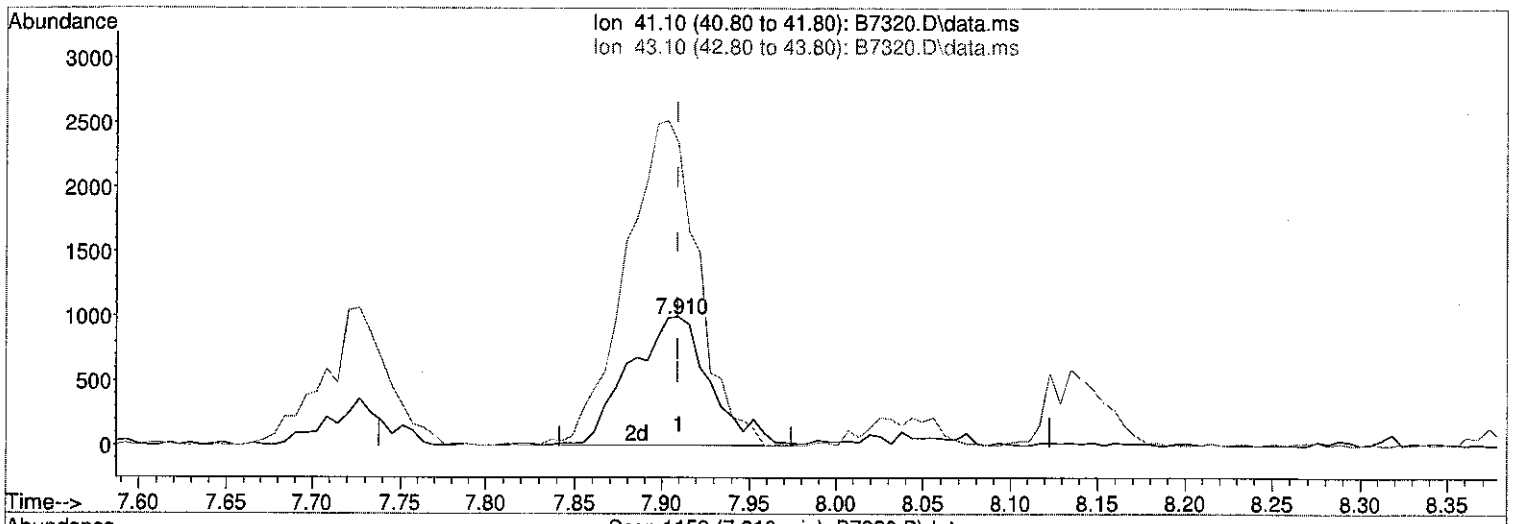
08/03/16

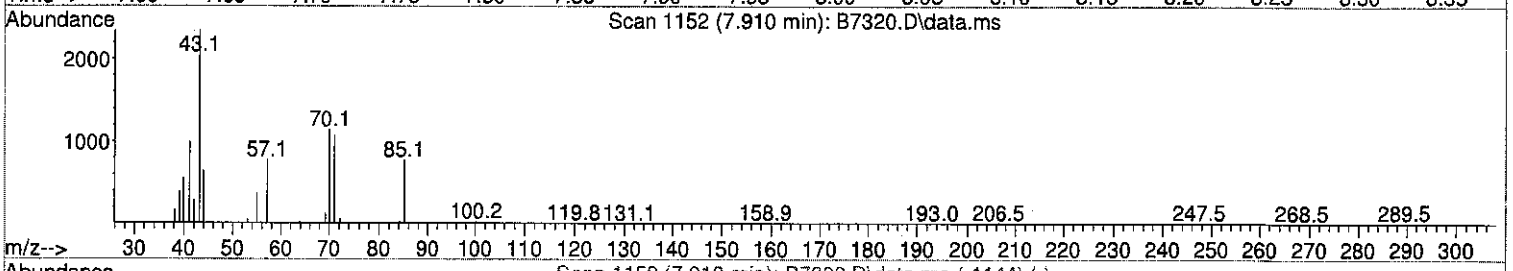
1st FN 08/04/16
2nd VR 08/04/16

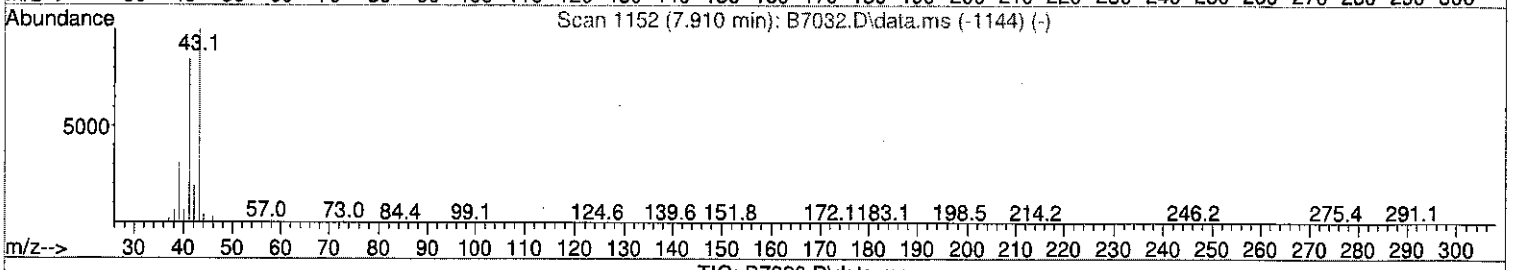
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\080316\
Data File : B7320.D
Acq On : 3 Aug 2016 10:49 am
Operator : F.Naegler
Sample : 1.0 PPB STD Inst : MSVOA14
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 03 11:18:17 2016
Quant Method : I:\ACQUDATA\MSVOA14\Methods\S080316.M
Quant Title : MS#14 - 8260 SOILS 10ml PURGE
QLast Update : Wed Aug 03 09:03:16 2016
Response via : Initial Calibration







TIC: B7320.D\data.ms

(60) 2-Nitropropane

7.910min (+0.001) 5.43 ug/L m

response 3173

Ion	Exp%	Act%
41.10	100	100
43.10	115.10	235.31#
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

Poor integration.

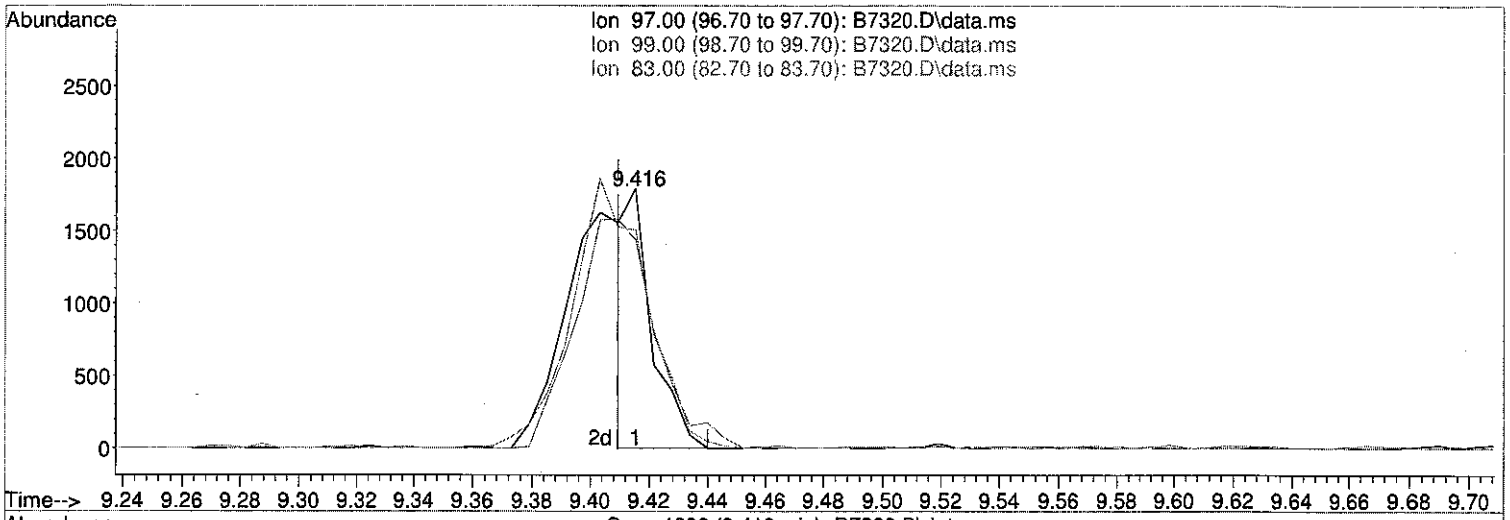
08/03/16

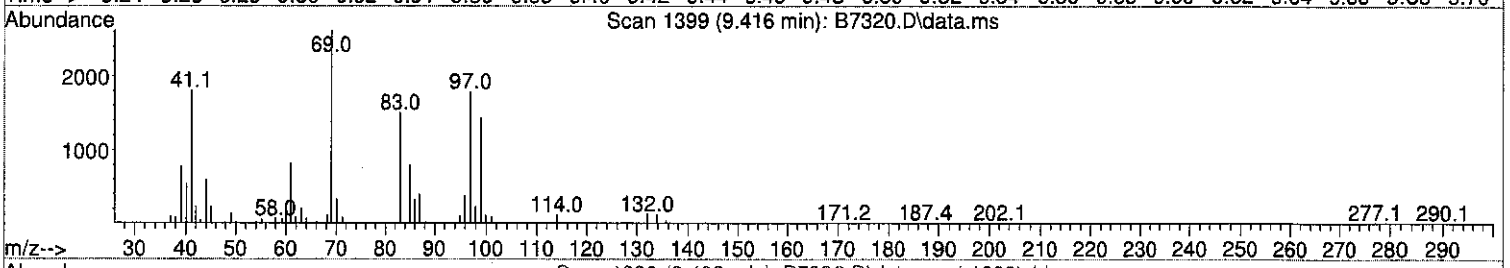
1st FN 08/04/16
2nd HR 08/04/16

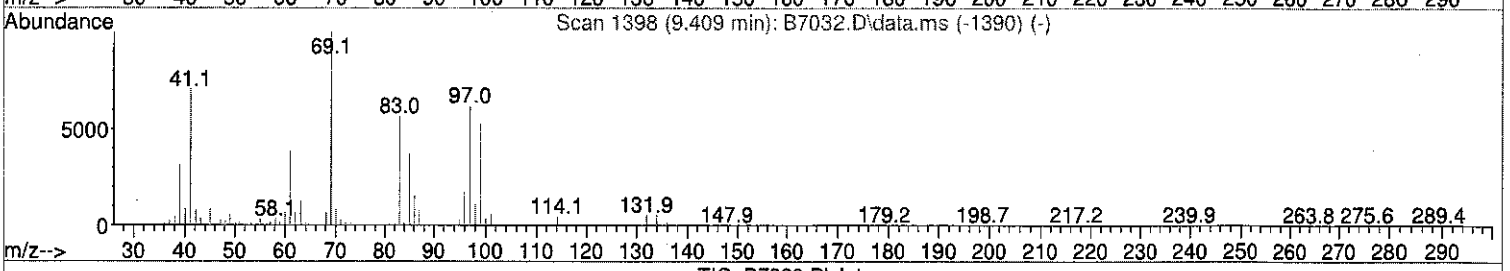
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\080316\
Data File : B7320.D
Acq On : 3 Aug 2016 10:49 am
Operator : F.Naegler
Sample : 1.0 PPB STD Inst : MSVOA14
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 03 11:18:17 2016
Quant Method : I:\ACQUDATA\MSVOA14\Methods\S080316.M
Quant Title : MS#14 - 8260 SOILS 10ml PURGE
QLast Update : Wed Aug 03 09:03:16 2016
Response via : Initial Calibration







TIC: B7320.D\data.ms

(68) 1,1,2-Trichloroethane (P)

9.416min (+0.006) 0.34 ug/L

response 1043

Ion	Exp%	Act%
97.00	100	100
99.00	93.60	80.32
83.00	83.10	84.07
0.00	0.00	0.00

Manual Integration:

Before

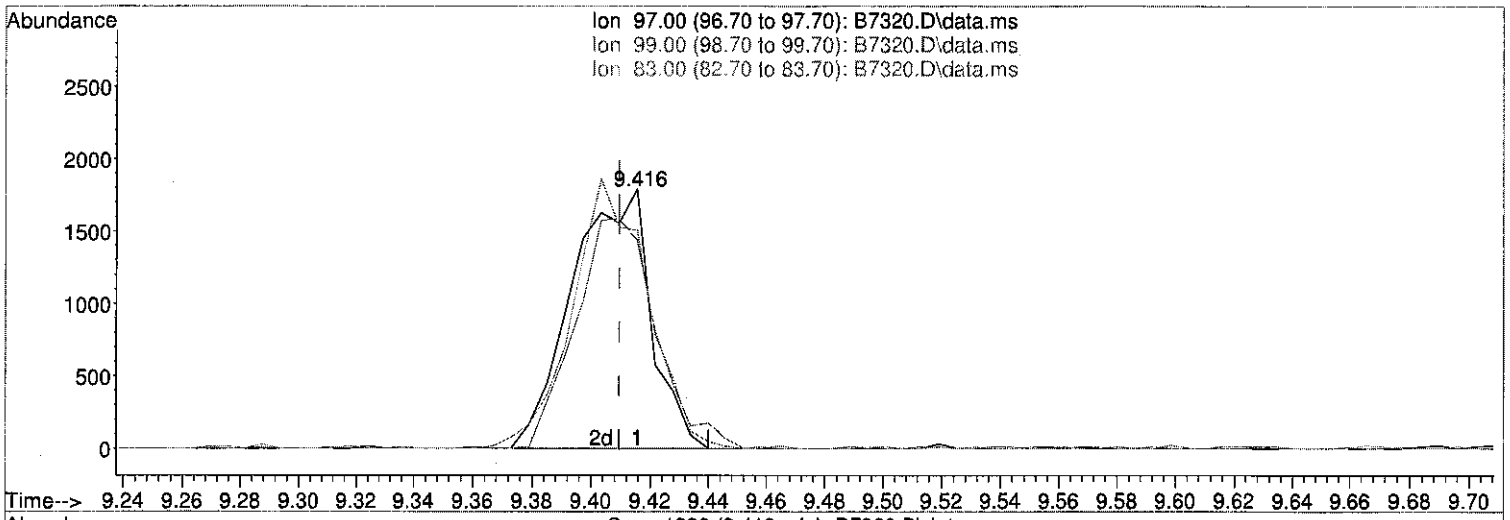
08/03/16

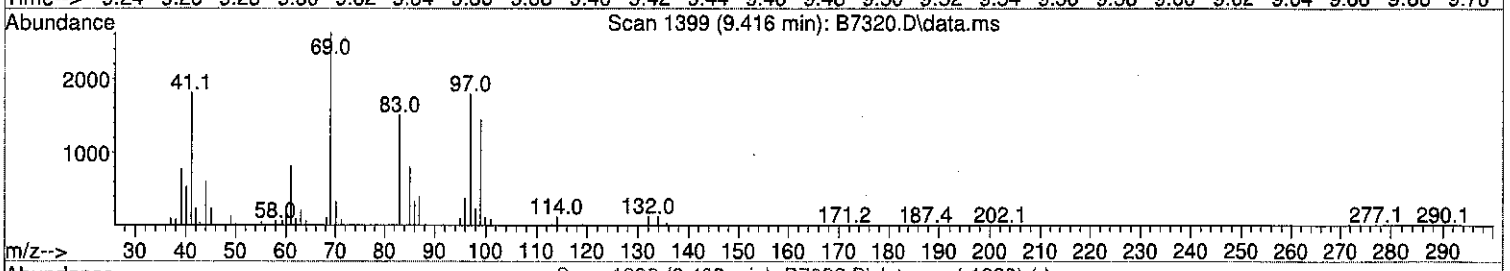
1st FJ 08/04/16
2nd KR 08/04/16

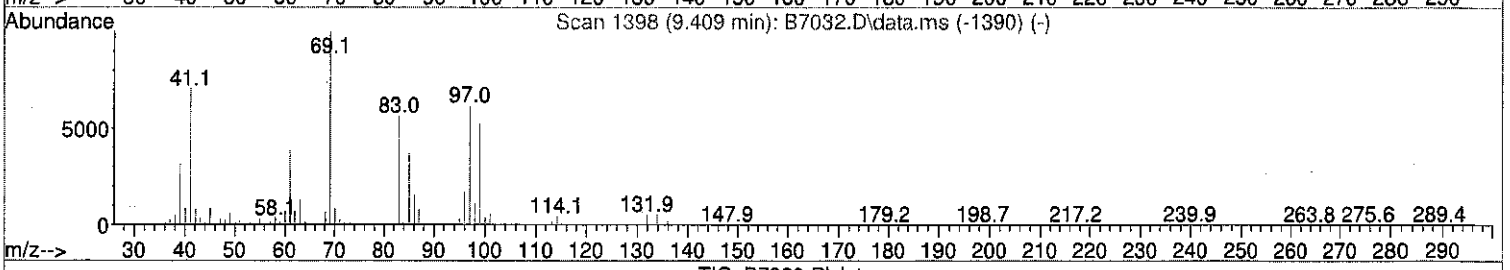
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\080316\
Data File : B7320.D
Acq On : 3 Aug 2016 10:49 am
Operator : F.Naegler
Sample : 1.0 PPB STD Inst : MSVOA14
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 03 11:18:17 2016
Quant Method : I:\ACQUDATA\MSVOA14\Methods\S080316.M
Quant Title : MS#14 - 8260 SOILS 10ml PURGE
QLast Update : Wed Aug 03 09:03:16 2016
Response via : Initial Calibration







TIC: B7320.D\data.ms

(68) 1,1,2-Trichloroethane (P)

9.416min (+0.006) 1.07 ug/L m

response 3308

Ion	Exp%	Act%
97.00	100	100
99.00	93.60	80.32
83.00	83.10	84.07
0.00	0.00	0.00

Manual Integration:

After

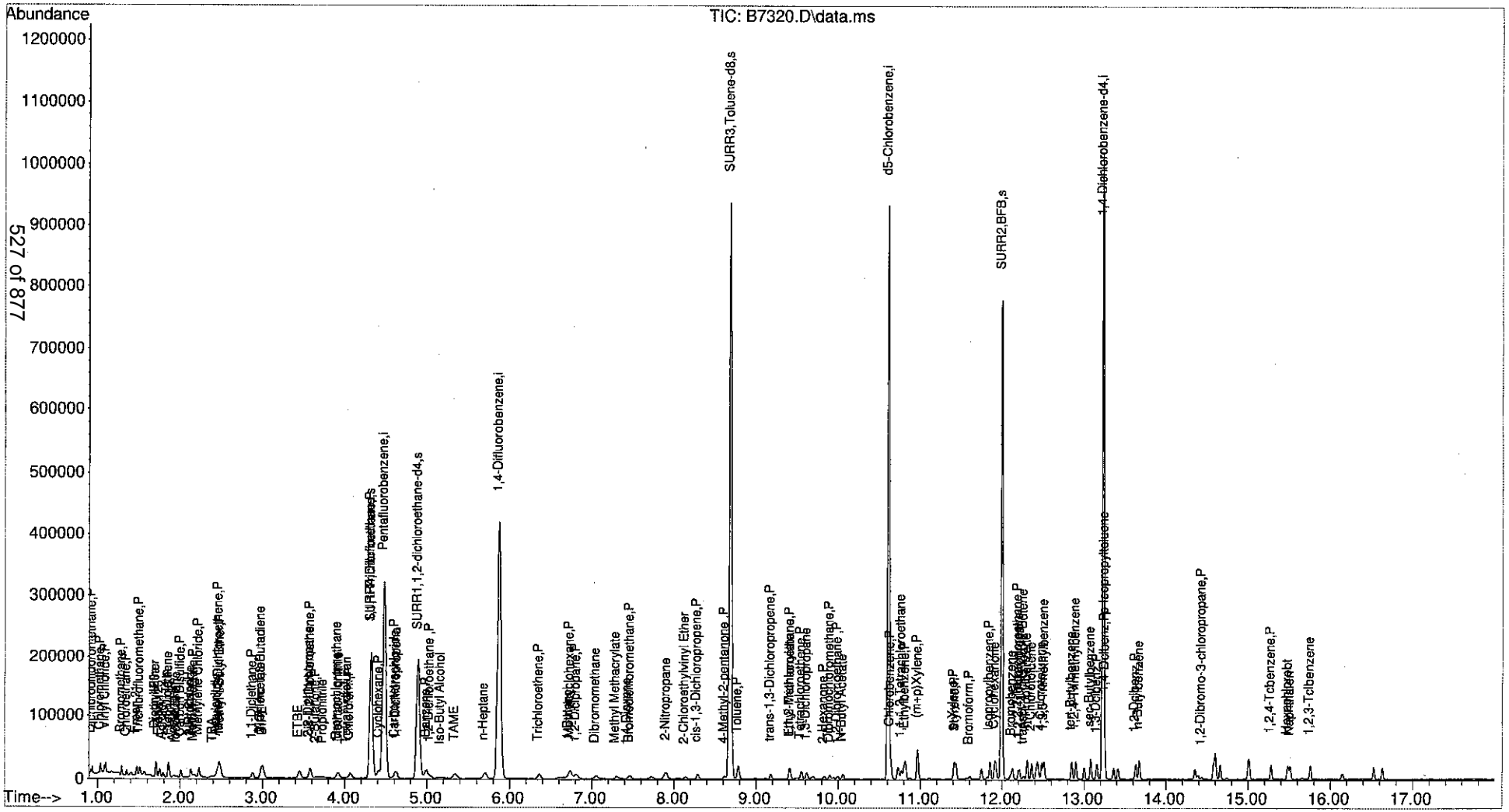
Poor integration.

08/03/16

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA14\Data\080316\
Data File : B7320.D
Acq On : 3 Aug 2016 10:49 am
Operator : F.Naegler
Sample : 1.0 PPB STD Inst : MSVOA14
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 03 11:30:56 2016
Quant Method : I:\ACQUDATA\MSVOA14\Methods\S080316.M
Quant Title : MS#14 - 8260 SOILS 10ml PURGE
QLast Update : Wed Aug 03 09:03:16 2016
Response via : Initial Calibration



1st FJ 08/04/16
2nd 08/04/16

1st FN 08/04/16
2nd HR 08/04/16

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA14\Data\080316\
Data File : B7321.D
Acq On : 3 Aug 2016 11:13 am
Operator : F.Naegler
Sample : 2.0 PPB STD Inst : MSVOA14
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 03 12:33:11 2016
Quant Method : I:\ACQUDATA\MSVOA14\Methods\S080316.M
Quant Title : MS#14 - 8260 SOILS 10ml PURGE
QLast Update : Wed Aug 03 09:03:16 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.484	168	317099	50.00	ug/L	0.00
42) 1,4-Difluorobenzene	5.874	114	519887	50.00	ug/L	0.00
70) d5-Chlorobenzene	10.611	117	455756	50.00	ug/L	0.00
87) 1,4-Dichlorobenzene-d4	13.226	152	226014	50.00	ug/L	0.00
System Monitoring Compounds						
44) SURR4,Dibrflmethane	4.319	113	151945	51.78	ug/L	0.00
Spiked Amount 50.000	Range 63 - 138		Recovery = 103.56%			
47) SURR1,1,2-dichloroetha...	4.892	65	184183	49.13	ug/L	0.00
Spiked Amount 50.000	Range 67 - 128		Recovery = 98.26%			
64) SURR3,Toluene-d8	8.684	98	689400	54.24	ug/L	0.00
Spiked Amount 50.000	Range 66 - 138		Recovery = 108.48%			
69) SURR2,BFB	11.994	95	243254	51.68	ug/L	0.00
Spiked Amount 50.000	Range 51 - 136		Recovery = 103.36%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	0.929	85	9241m	2.04	ug/L	
3) Chloromethane	1.033	50	11355	2.02	ug/L	96
4) Vinyl Chloride	1.094	62	10628	1.80	ug/L	93
5) Bromomethane	1.289	94	6828	2.01	ug/L	99
6) Chloroethane	1.350	64	5012	1.55	ug/L	97
7) Freon 21	1.472	67	13037	1.81	ug/L	96
8) Trichlorofluoromethane	1.509	101	9706	2.20	ug/L	99
9) Diethyl Ether	1.704	59	7782	2.17	ug/L	91
10) Freon 123a	1.704	67	10561	2.39	ug/L	80
11) Freon 123	1.746	83	12127	2.47	ug/L	87
12) Acrolein	1.783	56	9154	11.72	ug/L	99
13) 1,1-Diclethene	1.856	96	7726	2.47	ug/L #	79
14) Freon 113	1.862	101	7894	2.70	ug/L	93
15) Acetone	1.905	43	6996	2.16	ug/L	81
16) 2-Propanol	2.051	45	13947	37.30	ug/L	97
17) Iodomethane	1.960	142	951	5.16	ug/L	77
18) Carbon Disulfide	2.009	76	19416	1.97	ug/L	99
19) Acetonitrile	2.118	40	4003m	14.38	ug/L	
20) Allyl Chloride	2.130	76	4756	3.03	ug/L #	79
21) Methyl Acetate	2.161	43	6639	1.87	ug/L	97
22) Methylene Chloride	2.222	84	9540	2.29	ug/L	93
23) TBA	2.368	59	20716	37.77	ug/L	83
24) Acrylonitrile	2.441	53	19358	10.58	ug/L	93
25) Methyl-t-Butyl Ether	2.484	73	22666	2.07	ug/L	95
26) trans-1,2-Dichloroethene	2.472	96	8484	2.37	ug/L	96
27) 1,1-Diclethane	2.880	63	13808	2.14	ug/L	95
28) Vinyl Acetate	2.978	86	1701	2.12	ug/L #	65
29) DIPE	3.002	45	25773	1.85	ug/L	89
30) 2-Chloro-1,3-Butadiene	2.990	53	11497	1.93	ug/L	97
31) ETBE	3.447	59	22630	1.92	ug/L	90
32) 2,2-Dichloropropane	3.575	77	8027	2.02	ug/L	96
33) cis-1,2-Dichloroethene	3.581	96	8891	2.24	ug/L #	80
34) 2-Butanone	3.642	43	5152	2.12	ug/L	93
35) Propionitrile	3.709	54	6443	8.94	ug/L	92
36) Bromochloromethane	3.905	130	5368	2.46	ug/L #	85
37) Methacrylonitrile	3.917	67	3446	1.85	ug/L	93
38) Tetrahydrofuran	4.008	42	2676	1.80	ug/L	98
39) Chloroform	4.063	83	13679	2.16	ug/L	94
40) 1,1,1-Trichloroethane	4.325	97	9096	2.12	ug/L	86

1st FW 08/04/16
2nd WR 08/04/16

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA14\Data\080316\
Data File : B7321.D
Acq On : 3 Aug 2016 11:13 am
Operator : F.Naegler
Sample : 2.0 PPB STD Inst : MSVOA14
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 03 12:33:11 2016
Quant Method : I:\ACQUDATA\MSVOA14\Methods\S080316.M
Quant Title : MS#14 - 8260 SOILS 10ml PURGE
QLast Update : Wed Aug 03 09:03:16 2016
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
41)	TAME	5.349	73	21049m	1.99 ug/L		
43)	Cyclohexane	4.411	41	7482	2.15 ug/L		74
45)	Carbontetrachloride	4.606	121	2183	2.24 ug/L	#	73
46)	1,1-Dichloropropene	4.618	75	11034	2.45 ug/L		94
48)	Benzene	4.990	78	31834	2.24 ug/L		97
49)	1,2-Dichloroethane	5.038	62	9579	2.14 ug/L		95
50)	Iso-Butyl Alcohol	5.106	43	8241	34.92 ug/L		95
51)	n-Heptane	5.703	43	11045	2.14 ug/L		92
52)	1-Butanol	6.569	56	11709	98.80 ug/L		90
53)	Trichloroethene	6.361	130	7751	2.55 ug/L		95
54)	Methylcyclohexane	6.739	55	11604	2.27 ug/L	#	74
55)	1,2-Diclpropane	6.806	63	7690	1.99 ug/L		92
56)	Dibromomethane	7.050	93	4678	2.17 ug/L		89
57)	1,4-Dioxane	7.270	88	3096	49.42 ug/L	#	43
58)	Methyl Methacrylate	7.300	69	5823	2.03 ug/L		89
59)	Bromodichloromethane	7.465	83	8821	2.14 ug/L		96
60)	2-Nitropropane	7.904	41	3392	5.85 ug/L	#	58
61)	2-Chloroethylvinyl Ether	8.135	63	4471	1.87 ug/L		80
62)	cis-1,3-Dichloropropene	8.294	75	10587	2.05 ug/L		92
63)	4-Methyl-2-pentanone	8.611	43	7421	1.76 ug/L		91
65)	Toluene	8.782	91	32330	2.22 ug/L		98
66)	trans-1,3-Dichloropropene	9.178	75	7466	2.19 ug/L		97
67)	Ethyl Methacrylate	9.410	69	8942	2.15 ug/L		93
68)	1,1,2-Trichloroethane	9.403	97	6747	2.22 ug/L	#	81
71)	Tetrachloroethene	9.556	164	6099	2.68 ug/L		89
72)	2-Hexanone	9.830	43	4773	1.56 ug/L		94
73)	1,3-Dichloropropane	9.617	76	12192	2.24 ug/L		95
74)	Dibromochloromethane	9.897	129	5413	1.95 ug/L		93
75)	N-Butyl Acetate	10.056	43	9830	1.78 ug/L		89
76)	1,2-Dibromoethane	9.995	107	6047	2.00 ug/L		100
77)	Chlorobenzene	10.641	112	21626	2.43 ug/L		97
78)	1,1,1,2-Tetrachloroethane	10.769	131	5710	2.27 ug/L		91
79)	Ethylbenzene	10.824	106	10908	2.33 ug/L		90
80)	(m+p)Xylene	10.970	106	27100	4.75 ug/L		98
81)	o-Xylene	11.415	106	12976	2.33 ug/L		90
82)	Styrene	11.440	104	21909	2.29 ug/L		98
83)	Bromoform	11.604	173	3499	2.79 ug/L		98
84)	Isopropylbenzene	11.854	105	34562	2.46 ug/L		95
85)	Cyclohexanone	11.909	55	30301	43.66 ug/L		95
86)	trans-1,4-Dichloro-2-B...	12.257	53	2204	1.81 ug/L	#	63
88)	1,1,2,2-Tetrachloroethane	12.196	83	9812	1.96 ug/L		98
89)	Bromobenzene	12.129	156	8487	2.32 ug/L		95
90)	1,2,3-Trichloropropane	12.214	110	2936	2.22 ug/L	#	80
91)	n-Propylbenzene	12.305	91	43060	2.27 ug/L		96
92)	2-Chlorotoluene	12.360	91	24759	2.29 ug/L		98
93)	4-Chlorotoluene	12.482	91	29797	2.29 ug/L		95
94)	1,3,5-Trimethylbenzene	12.513	105	28300	2.27 ug/L		99
95)	tert-Butylbenzene	12.848	119	24359	2.35 ug/L		97
96)	1,2,4-Trimethylbenzene	12.897	105	29277	2.30 ug/L		98
97)	sec-Butylbenzene	13.080	105	38439	2.34 ug/L		97
98)	p-Isopropyltoluene	13.250	119	29981	2.24 ug/L		97
99)	1,3-Dclbenz	13.153	146	16468	2.38 ug/L		97
100)	1,4-Dclbenz	13.250	146	18014	2.53 ug/L		96
101)	n-Butylbenzene	13.671	91	30128	2.25 ug/L		100
102)	1,2-Dclbenz	13.628	146	16020	2.39 ug/L		97
103)	1,2-Dibromo-3-chloropr...	14.433	157	1494	2.15 ug/L		86

1st FN 08/04/16
2nd KR 08/04/16

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA14\Data\080316\
Data File : B7321.D
Acq On : 3 Aug 2016 11:13 am
Operator : F.Naegler
Sample : 2.0 PPB STD Inst : MSVOA14
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 03 12:33:11 2016
Quant Method : I:\ACQUDATA\MSVOA14\Methods\S080316.M
Quant Title : MS#14 - 8260 SOILS 10ml PURGE
QLast Update : Wed Aug 03 09:03:16 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
104) 1,2,4-Tcbenzene	15.274	180	11748	2.60 ug/L	97
105) Hexachlorobt	15.475	225	6196	2.81 ug/L	88
106) Naphthalen	15.506	128	25327	1.89 ug/L	96
107) 1,2,3-Tclbenzene	15.756	180	10610	2.35 ug/L	98

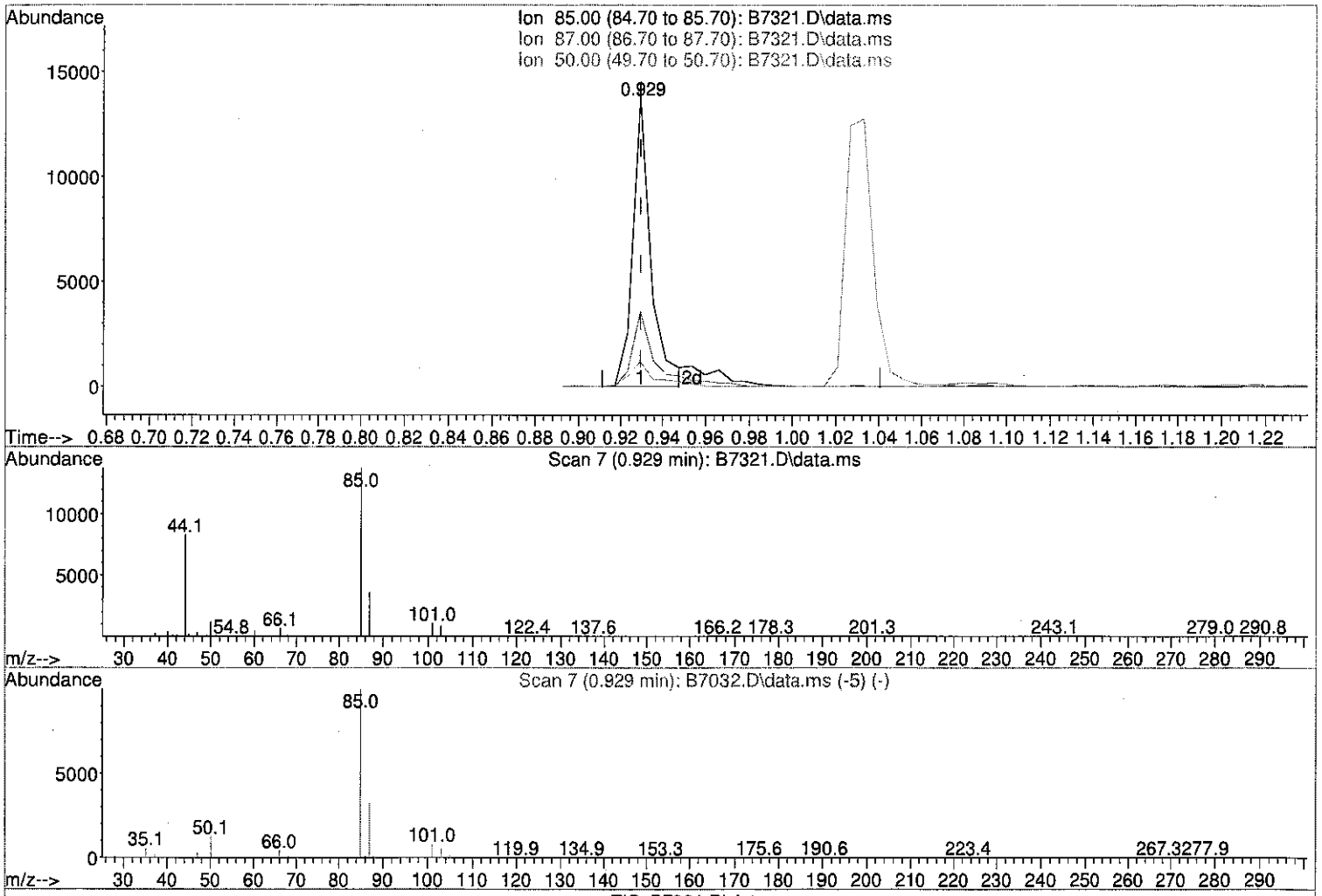
(#) = qualifier out of range (m) = manual integration (+) = signals summed

1st FN 08/04/16
2nd WR 08/04/16

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\080316\
Data File : B7321.D
Acq On : 3 Aug 2016 11:13 am
Operator : F.Naegler
Sample : 2.0 PPB STD Inst : MSVOA14
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 03 12:30:04 2016
Quant Method : I:\ACQUDATA\MSVOA14\Methods\S080316.M
Quant Title : MS#14 - 8260 SOILS 10ml PURGE
QLast Update : Wed Aug 03 09:03:16 2016
Response via : Initial Calibration



(2) Dichlorodifluoromethane (P)

0.929min (-0.000) 1.81 ug/L

response 8181

Ion	Exp%	Act%
85.00	100	100
87.00	32.50	25.87
50.00	10.70	8.44
0.00	0.00	0.00

Manual Integration:

Before

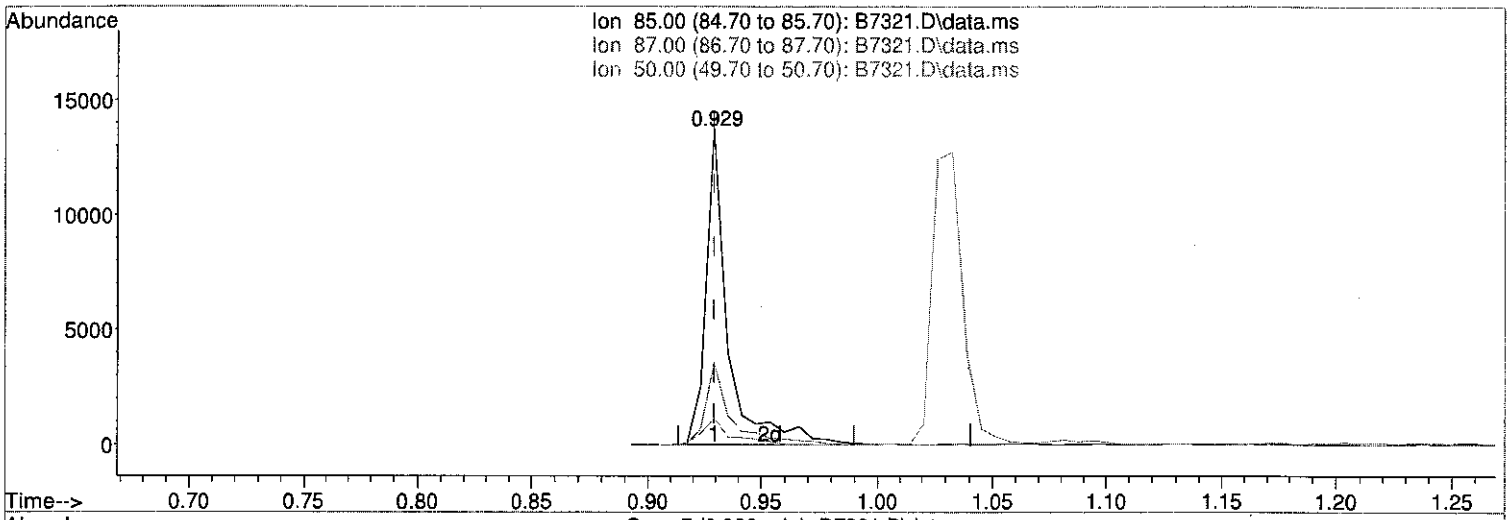
08/03/16

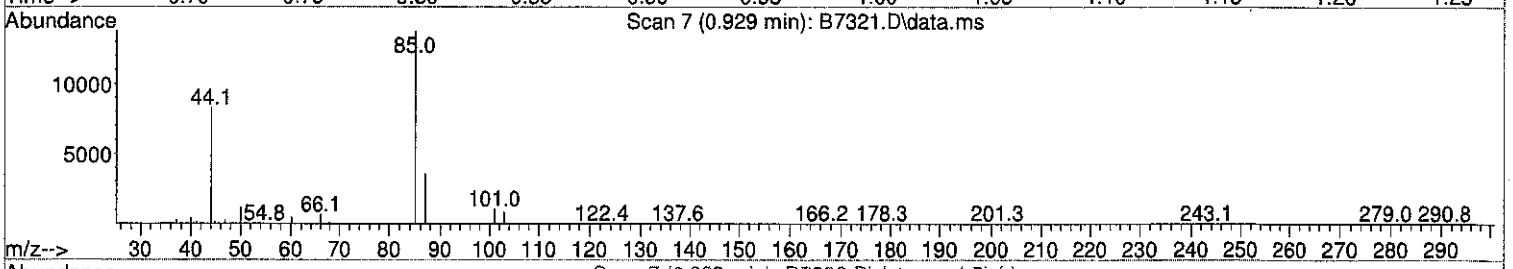
1st FN 08/04/16
2nd KR 08/04/16

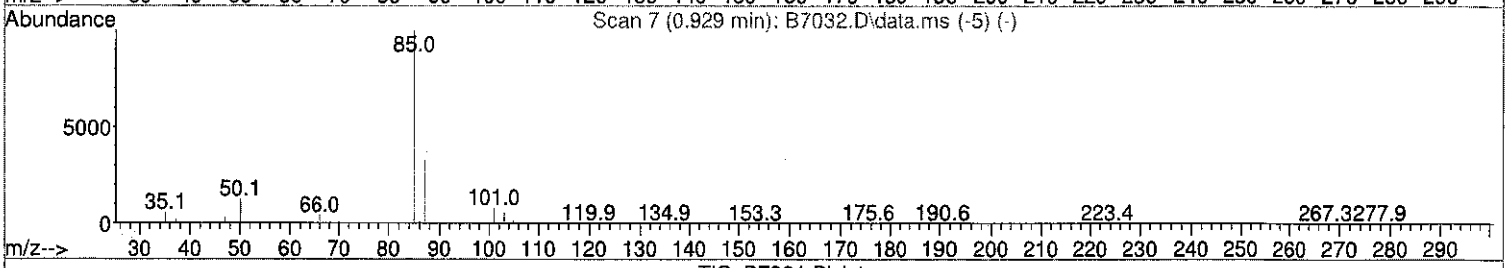
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\080316\
Data File : B7321.D
Acq On : 3 Aug 2016 11:13 am
Operator : F.Naegler
Sample : 2.0 PPB STD Inst : MSVOA14
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 03 12:30:04 2016
Quant Method : I:\ACQUDATA\MSVOA14\Methods\S080316.M
Quant Title : MS#14 - 8260 SOILS 10ml PURGE
QLast Update : Wed Aug 03 09:03:16 2016
Response via : Initial Calibration







TIC: B7321.D\data.ms

(2) Dichlorodifluoromethane (P)

0.929min (-0.000) 2.04 ug/L m

response 9241

Ion	Exp%	Act%
85.00	100	100
87.00	32.50	25.87
50.00	10.70	8.44
0.00	0.00	0.00

Manual Integration:

After

Poor integration.

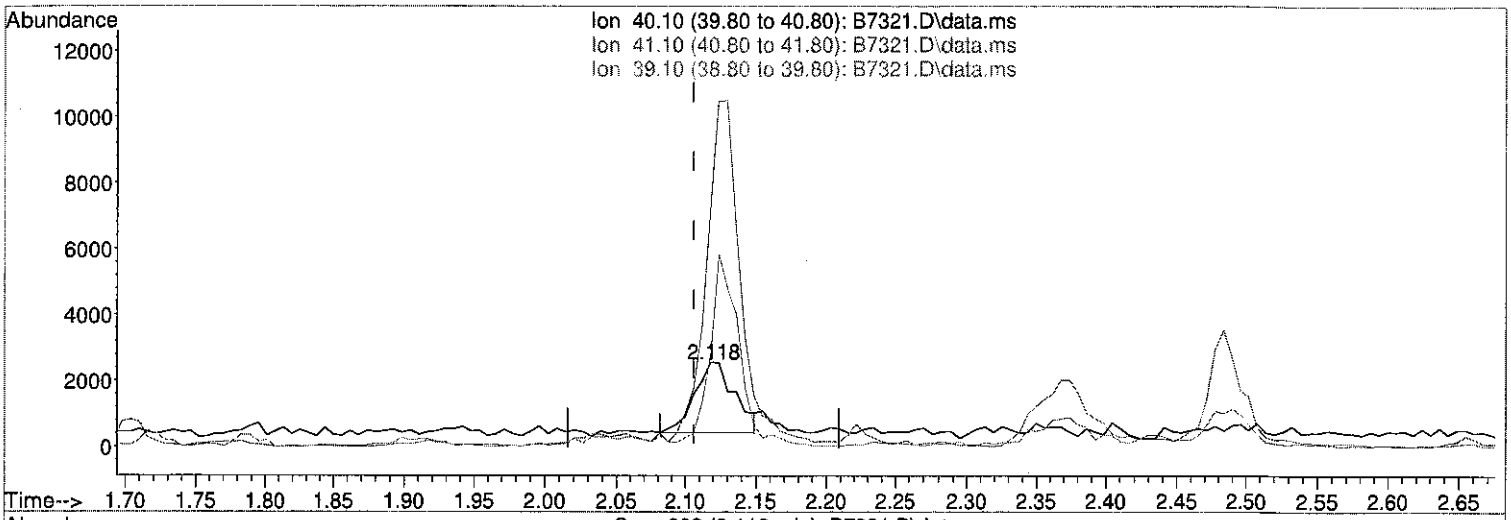
08/03/16

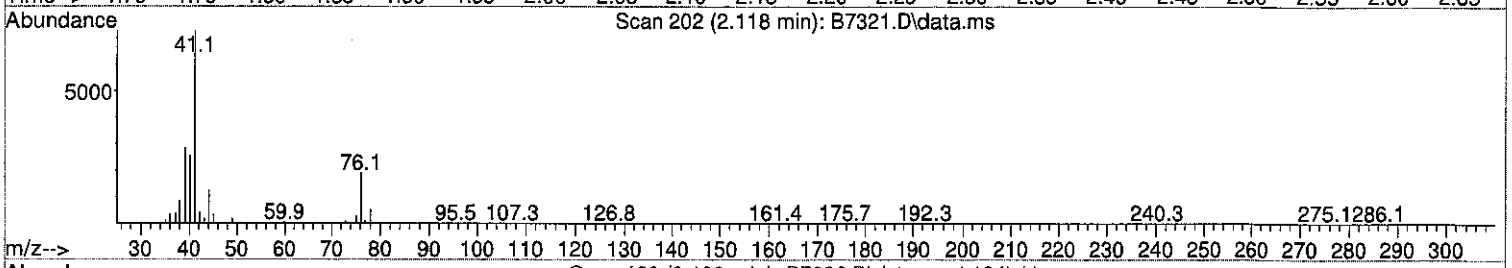
1st FN 08/04/16
2nd KR 08/04/16

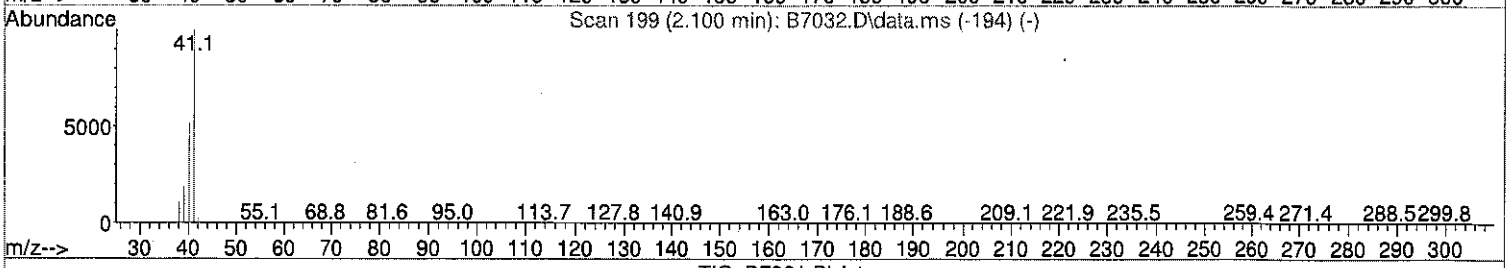
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\080316\
Data File : B7321.D
Acq On : 3 Aug 2016 11:13 am
Operator : F.Naegler
Sample : 2.0 PPB STD Inst : MSVOA14
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 03 12:30:04 2016
Quant Method : I:\ACQUDATA\MSVOA14\Methods\S080316.M
Quant Title : MS#14 - 8260 SOILS 10ml PURGE
QLast Update : Wed Aug 03 09:03:16 2016
Response via : Initial Calibration







TIC: B7321.D\data.ms

(19) Acetonitrile

2.118min (+0.012) 15.11 ug/L

response 4206

Ion	Exp%	Act%
40.10	100	100
41.10	534.60	284.30#
39.10	371.40	110.69#
0.00	0.00	0.00

Manual Integration:

Before

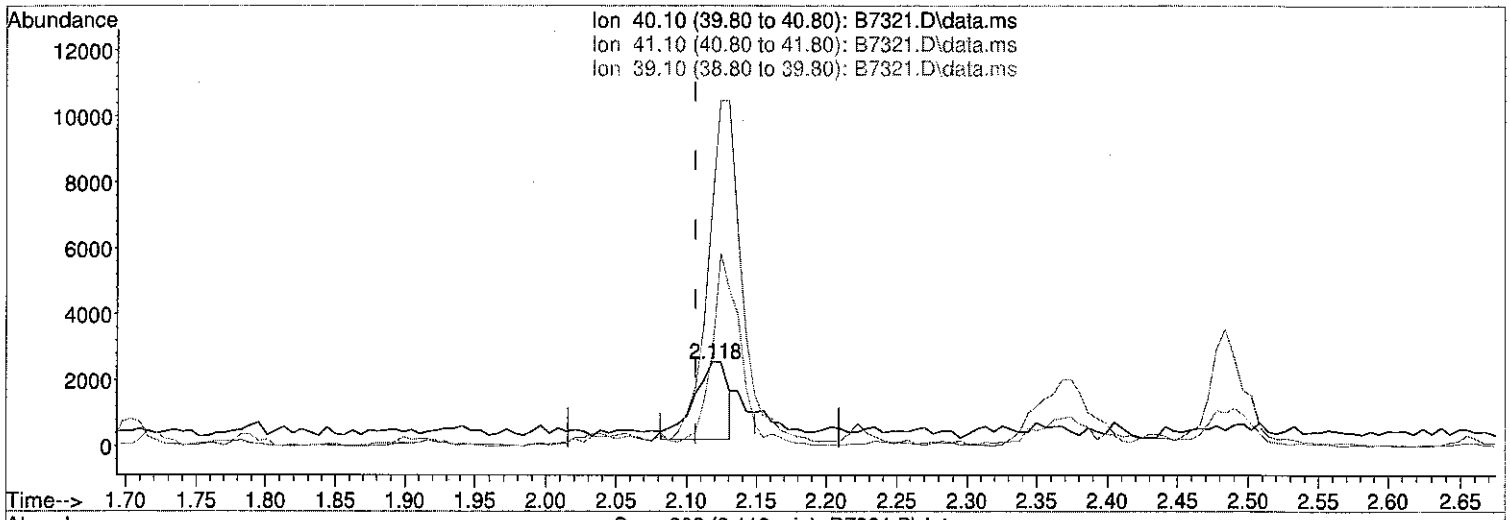
08/03/16

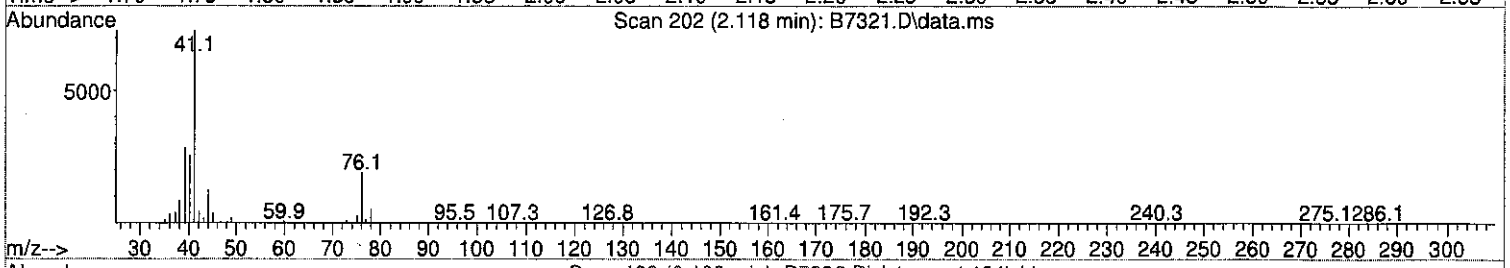
1st FN 08/04/16
2nd MR 08/04/16

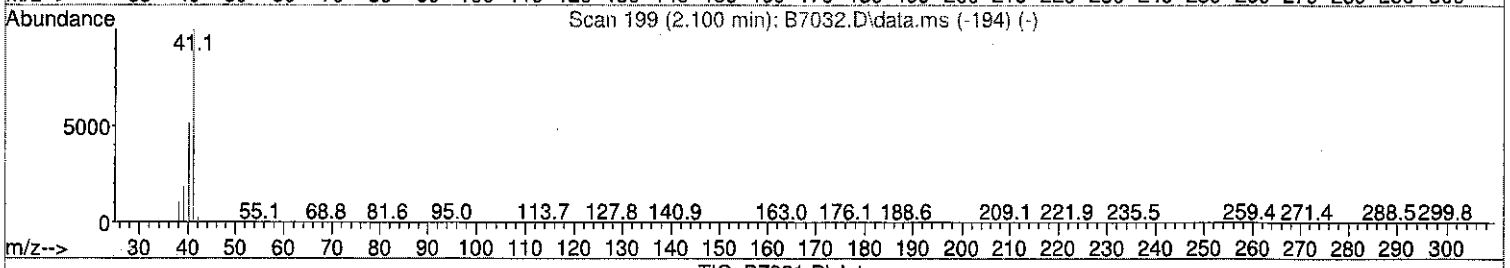
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\080316\
Data File : B7321.D
Acq On : 3 Aug 2016 11:13 am
Operator : F.Naegler
Sample : 2.0 PPB STD Inst : MSVOA14
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 03 12:30:04 2016
Quant Method : I:\ACQUDATA\MSVOA14\Methods\S080316.M
Quant Title : MS#14 - 8260 SOILS 10ml PURGE
QLast Update : Wed Aug 03 09:03:16 2016
Response via : Initial Calibration







TIC: B7321.D\data.ms

(19) Acetonitrile

2.118min (+0.012) 14.38 ug/L m

response 4003

Ion	Exp%	Act%
40.10	100	100
41.10	534.60	284.30#
39.10	371.40	110.69#
0.00	0.00	0.00

Manual Integration:

After

Poor integration.

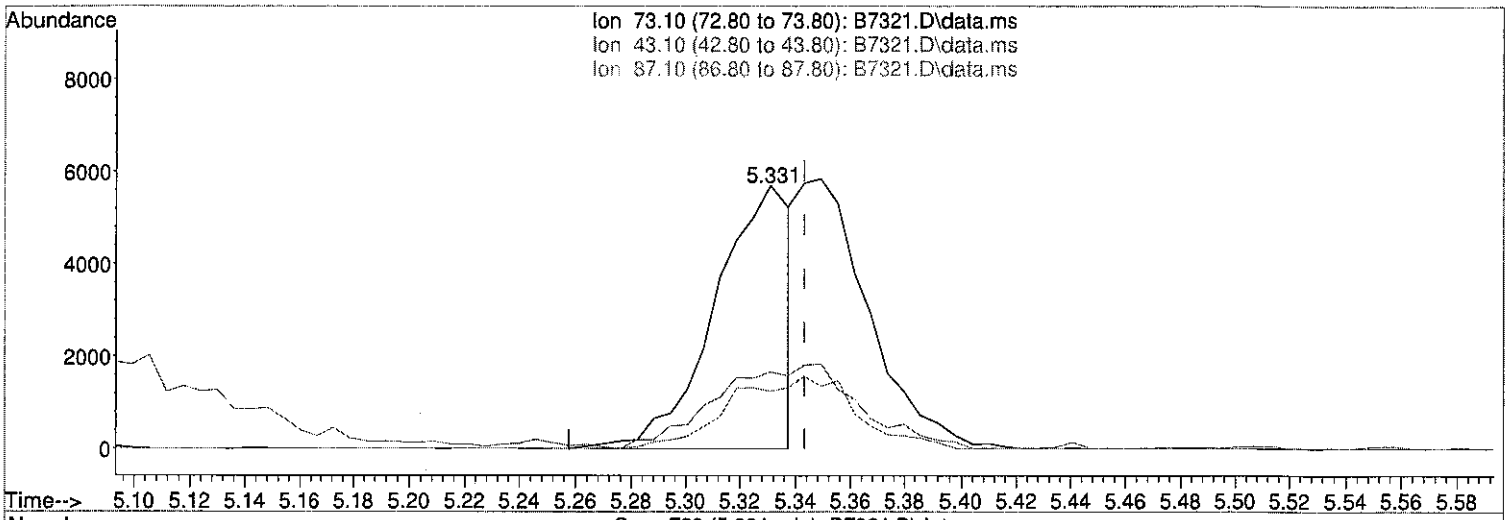
08/03/16

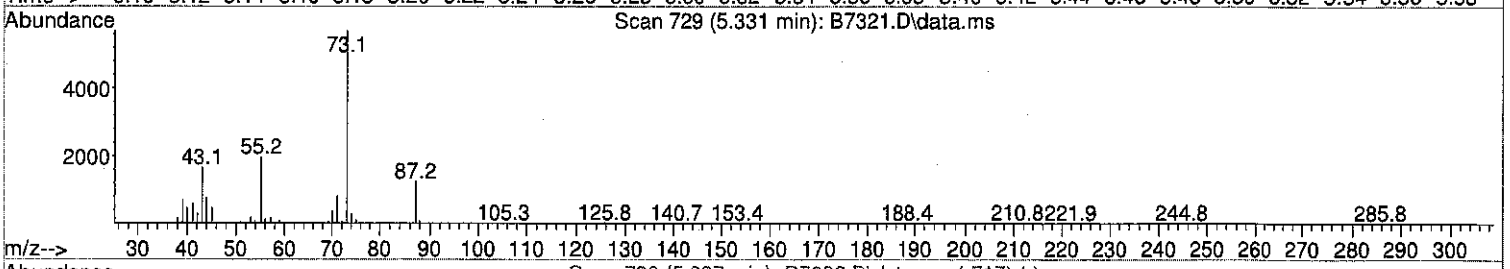
1st FN 08/04/16
2nd JR 08/04/16

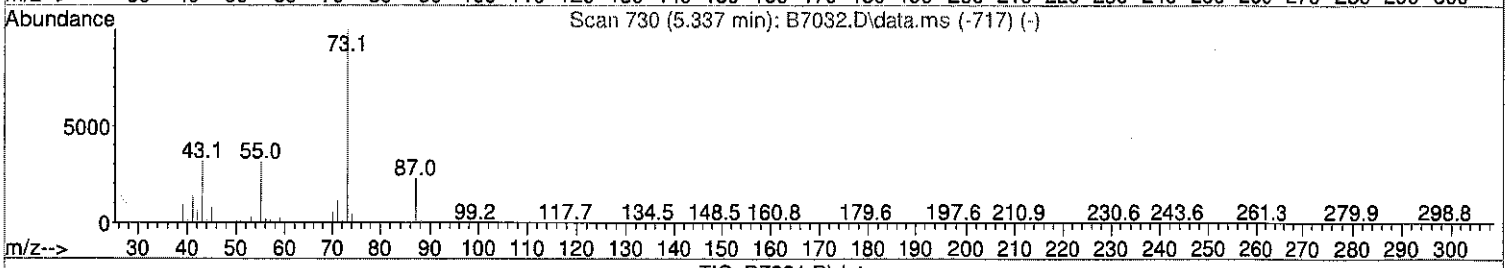
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\080316\
Data File : B7321.D
Acq On : 3 Aug 2016 11:13 am
Operator : F.Naegler
Sample : 2.0 PPB STD Inst : MSVOA14
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 03 12:30:04 2016
Quant Method : I:\ACQUDATA\MSVOA14\Methods\S080316.M
Quant Title : MS#14 - 8260 SOILS 10ml PURGE
QLast Update : Wed Aug 03 09:03:16 2016
Response via : Initial Calibration







TIC: B7321.D\data.ms

(41) TAME

5.331min (-0.012) 1.02 ug/L

response 10787

Ion	Exp%	Act%
73.10	100	100
43.10	31.30	29.08
87.10	24.10	21.77
0.00	0.00	0.00

Manual Integration:

Before

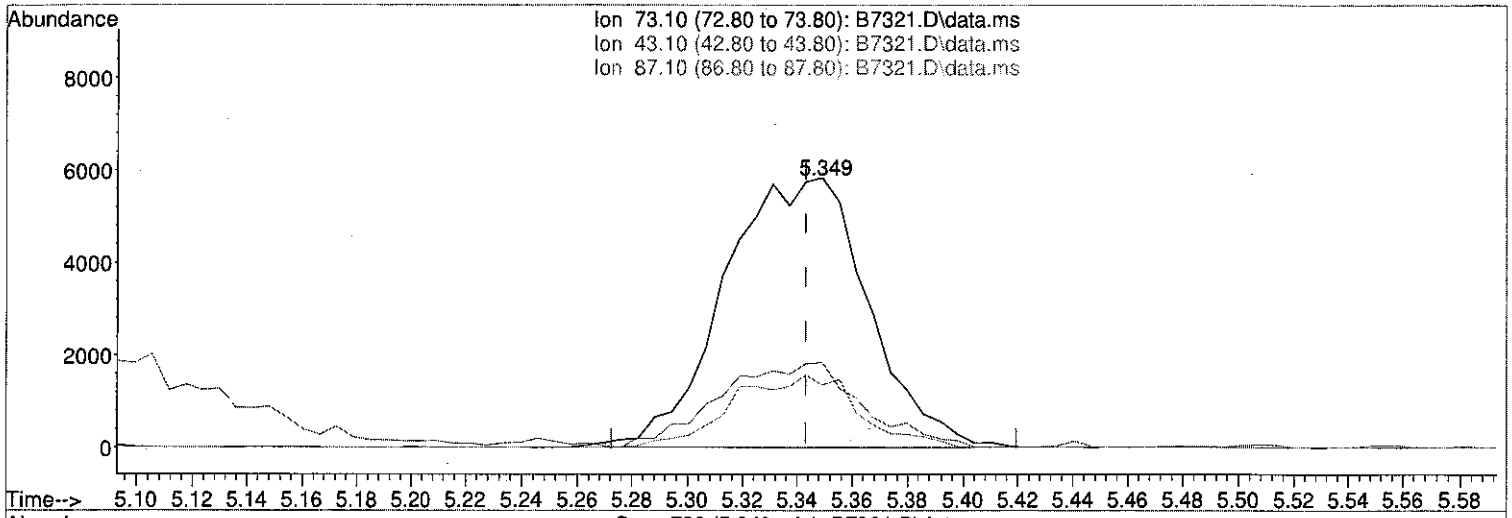
08/03/16

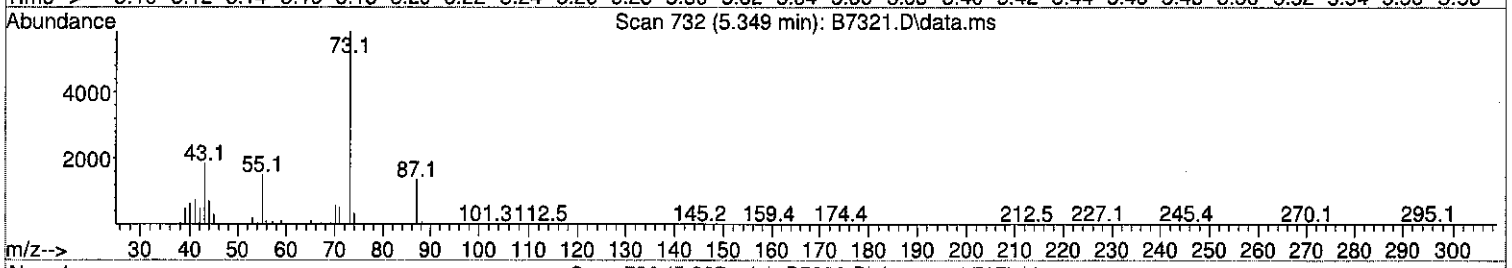
1st FN 08/04/16
2nd KR 08/04/16

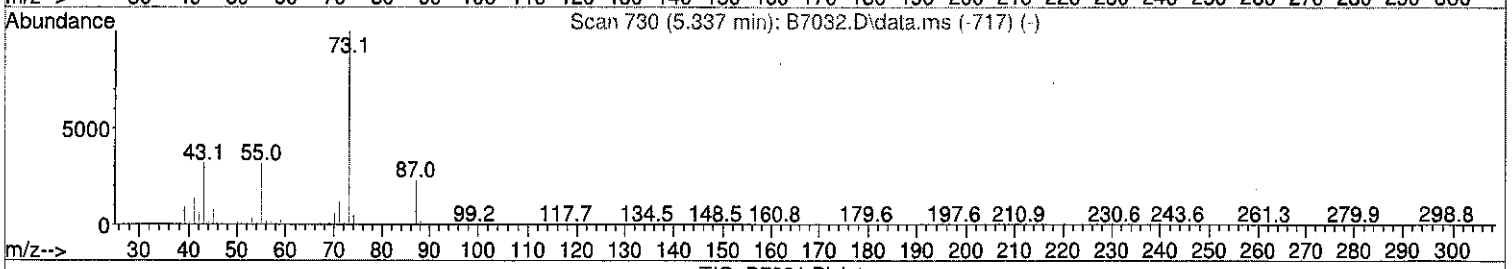
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\080316\
Data File : B7321.D
Acq On : 3 Aug 2016 11:13 am
Operator : F.Naegler
Sample : 2.0 PPB STD Inst : MSVOA14
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 03 12:30:04 2016
Quant Method : I:\ACQUDATA\MSVOA14\Methods\S080316.M
Quant Title : MS#14 - 8260 SOILS 10ml PURGE
QLast Update : Wed Aug 03 09:03:16 2016
Response via : Initial Calibration







TIC: B7321.D\data.ms

(41) TAME

5.349min (+0.006) 1.99 ug/L m

response 21049

Ion	Exp%	Act%
73.10	100	100
43.10	31.30	31.36
87.10	24.10	23.13
0.00	0.00	0.00

Manual Integration:

After

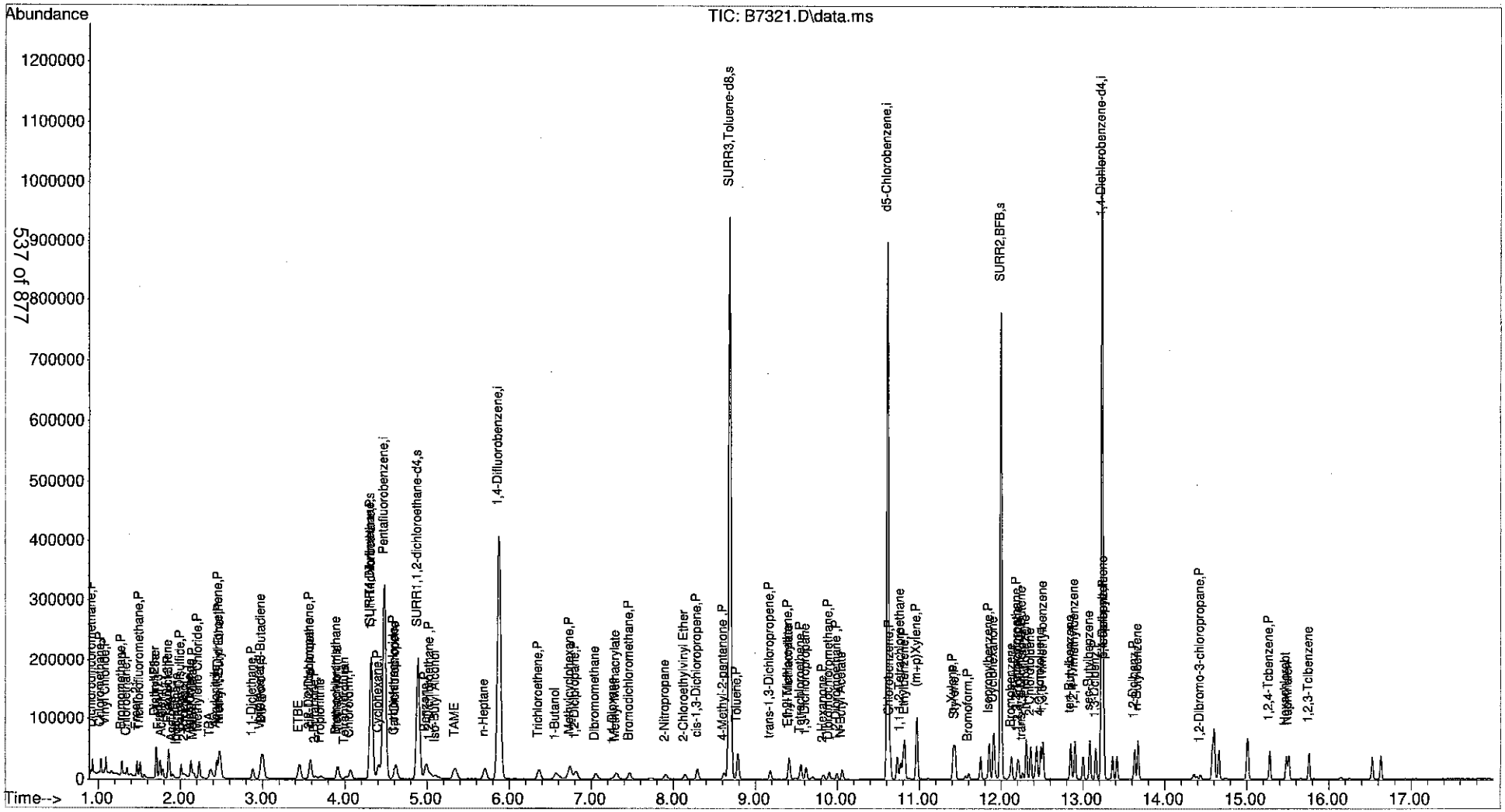
Poor integration.

08/03/16

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA14\Data\080316\
Data File : B7321.D
Acq On : 3 Aug 2016 11:13 am
Operator : F.Naegler
Sample : 2.0 PPB STD Inst : MSVOA14
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 03 12:33:11 2016
Quant Method : I:\ACQUDATA\MSVOA14\Methods\S080316.M
Quant Title : MS#14 - 8260 SOILS 10ml PURGE
QLast Update : Wed Aug 03 09:03:16 2016
Response via : Initial Calibration



537 of 877

1st FJ 08/04/16
2nd 08/04/16

1st FN 08/04/16
2nd KR 08/04/16

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA14\Data\080316\
Data File : B7322.D
Acq On : 3 Aug 2016 11:41 am
Operator : F.Naegler
Sample : 5.0 PPB STD Inst : MSVOA14
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 03 12:35:53 2016
Quant Method : I:\ACQUDATA\MSVOA14\Methods\S080316.M
Quant Title : MS#14 - 8260 SOILS 10ml PURGE
QLast Update : Wed Aug 03 09:03:16 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.484	168	309135	50.00	ug/L	0.00
42) 1,4-Difluorobenzene	5.874	114	480800	50.00	ug/L	0.00
70) d5-Chlorobenzene	10.611	117	426299	50.00	ug/L	0.00
87) 1,4-Dichlorobenzene-d4	13.226	152	220019	50.00	ug/L	0.00
System Monitoring Compounds						
44) SURR4,Dibrflmethane	4.319	113	28241	10.41	ug/L	0.00
Spiked Amount 50.000	Range 63 - 138		Recovery = 20.82%#			
47) SURR1,1,2-dichloroetha...	4.886	65	33920	9.78	ug/L	0.00
Spiked Amount 50.000	Range 67 - 128		Recovery = 19.56%#			
64) SURR3,Toluene-d8	8.684	98	127072	10.81	ug/L	0.00
Spiked Amount 50.000	Range 66 - 138		Recovery = 21.62%#			
69) SURR2,BFB	11.995	95	50564	11.62	ug/L	0.00
Spiked Amount 50.000	Range 51 - 136		Recovery = 23.24%#			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	0.930	85	18534	4.20	ug/L	95
3) Chloromethane	1.033	50	25722	4.69	ug/L	97
4) Vinyl Chloride	1.094	62	24995	4.34	ug/L	98
5) Bromomethane	1.289	94	17549	5.66	ug/L	96
6) Chloroethane	1.350	64	12780	4.06	ug/L	98
7) Freon 21	1.472	67	34127	4.87	ug/L	100
8) Trichlorofluoromethane	1.509	101	22521	5.24	ug/L	98
9) Diethyl Ether	1.704	59	18640	5.34	ug/L	92
10) Freon 123a	1.710	67	23958	5.55	ug/L	91
11) Freon 123	1.753	83	28331	5.93	ug/L	97
12) Acrolein	1.789	56	23161	30.43	ug/L	98
13) 1,1-Diclethene	1.856	96	17044	5.60	ug/L	99
14) Freon 113	1.868	101	18079	6.33	ug/L	95
15) Acetone	1.911	43	11736	5.71	ug/L	98
16) 2-Propanol	2.070	45	38518	105.67	ug/L	100
17) Iodomethane	1.960	142	1937	5.78	ug/L	83
18) Carbon Disulfide	2.009	76	43425	4.52	ug/L	99
19) Acetonitrile	2.131	40	9652m	35.57	ug/L	
20) Allyl Chloride	2.131	76	10073	6.58	ug/L #	74
21) Methyl Acetate	2.161	43	17381	5.03	ug/L	96
22) Methylene Chloride	2.228	84	21515	5.30	ug/L	98
23) TBA	2.374	59	59541	111.36	ug/L	91
24) Acrylonitrile	2.442	53	48205	27.02	ug/L	95
25) Methyl-t-Butyl Ether	2.490	73	56822	5.32	ug/L	95
26) trans-1,2-Dichloroethene	2.472	96	19955	5.72	ug/L	95
27) 1,1-Diclethane	2.887	63	33479	5.32	ug/L	99
28) Vinyl Acetate	2.972	86	3815	4.87	ug/L #	87
29) DIPE	3.008	45	63148	4.66	ug/L	92
30) 2-Chloro-1,3-Butadiene	2.990	53	27397	4.73	ug/L	97
31) ETBE	3.447	59	55794	4.86	ug/L	96
32) 2,2-Dichloropropane	3.575	77	19545	5.05	ug/L	99
33) cis-1,2-Dichloroethene	3.588	96	22164	5.74	ug/L	99
34) 2-Butanone	3.643	43	12276	5.19	ug/L	94
35) Propionitrile	3.710	54	19838	28.25	ug/L	97
36) Bromochloromethane	3.917	130	12344	5.79	ug/L	98
37) Methacrylonitrile	3.923	67	9437	5.21	ug/L	84
38) Tetrahydrofuran	4.014	42	7529	5.19	ug/L	75
39) Chloroform	4.069	83	32579	5.27	ug/L	93
40) 1,1,1-Trichloroethane	4.325	97	22419	5.37	ug/L	94

1st FN 08/04/16
2nd WR 08/04/16

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA14\Data\080316\
Data File : B7322.D
Acq On : 3 Aug 2016 11:41 am
Operator : F.Naegler
Sample : 5.0 PPB STD Inst : MSVOA14
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 03 12:35:53 2016
Quant Method : I:\ACQUDATA\MSVOA14\Methods\S080316.M
Quant Title : MS#14 - 8260 SOILS 10ml PURGE
QLast Update : Wed Aug 03 09:03:16 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) TAME	5.343	73	50662	4.90	ug/L		93
43) Cyclohexane	4.405	41	17456	5.43	ug/L		84
45) Carbontetrachloride	4.612	121	5347	5.92	ug/L		94
46) 1,1-Dichloropropene	4.624	75	25976	6.23	ug/L		90
48) Benzene	4.996	78	77124m	5.87	ug/L		
49) 1,2-Dichloroethane	5.039	62	23207	5.62	ug/L		92
50) Iso-Butyl Alcohol	5.106	43	22892	104.90	ug/L		88
51) n-Heptane	5.703	43	22966	4.81	ug/L		94
52) 1-Butanol	6.587	56	32845	258.87	ug/L		90
53) Trichloroethene	6.362	130	17711	6.29	ug/L		96
54) Methylcyclohexane	6.733	55	26528	5.60	ug/L		93
55) 1,2-Diclpropane	6.813	63	20446	5.73	ug/L		97
56) Dibromomethane	7.050	93	11640	5.83	ug/L		86
57) 1,4-Dioxane	7.264	88	7276	125.58	ug/L		81
58) Methyl Methacrylate	7.300	69	13836	5.21	ug/L		93
59) Bromodichloromethane	7.465	83	21344	5.59	ug/L		98
60) 2-Nitropropane	7.910	41	6948	12.51	ug/L		87
61) 2-Chloroethylvinyl Ether	8.136	63	10863	4.91	ug/L		98
62) cis-1,3-Dichloropropene	8.288	75	25631	5.37	ug/L		96
63) 4-Methyl-2-pentanone	8.617	43	19197	4.93	ug/L		97
65) Toluene	8.782	91	79911	5.93	ug/L		99
66) trans-1,3-Dichloropropene	9.178	75	20302	6.05	ug/L		96
67) Ethyl Methacrylate	9.416	69	23311	5.57	ug/L		97
68) 1,1,2-Trichloroethane	9.410	97	15990	5.68	ug/L		86
71) Tetrachloroethene	9.550	164	13792	6.47	ug/L		98
72) 2-Hexanone	9.824	43	14802	5.19	ug/L		91
73) 1,3-Dichloropropane	9.611	76	31768	6.23	ug/L		98
74) Dibromochloromethane	9.897	129	13613	5.23	ug/L		97
75) N-Butyl Acetate	10.056	43	28485	4.88	ug/L		98
76) 1,2-Dibromoethane	9.995	107	16309	5.77	ug/L		99
77) Chlorobenzene	10.641	112	50038	6.00	ug/L		96
78) 1,1,1,2-Tetrachloroethane	10.769	131	13684	5.83	ug/L		94
79) Ethylbenzene	10.818	106	26182	5.98	ug/L		98
80) (m+p)Xylene	10.970	106	61834	11.58	ug/L		99
81) o-Xylene	11.415	106	32703	6.28	ug/L		94
82) Styrene	11.434	104	52892	5.92	ug/L		97
83) Bromoform	11.604	173	8202	6.60	ug/L		92
84) Isopropylbenzene	11.854	105	82133	6.26	ug/L		95
85) Cyclohexanone	11.909	55	90467	139.36	ug/L		93
86) trans-1,4-Dichloro-2-B...	12.257	53	5904	5.18	ug/L	#	60
88) 1,1,2,2-Tetrachloroethane	12.196	83	25578	5.25	ug/L		99
89) Bromobenzene	12.123	156	20731	5.83	ug/L	#	88
90) 1,2,3-Trichloropropane	12.214	110	6764	5.25	ug/L	#	85
91) n-Propylbenzene	12.305	91	101704	5.50	ug/L		97
92) 2-Chlorotoluene	12.360	91	58378	5.55	ug/L		98
93) 4-Chlorotoluene	12.482	91	70143	5.54	ug/L		99
94) 1,3,5-Trimethylbenzene	12.513	105	67795	5.59	ug/L		95
95) tert-Butylbenzene	12.848	119	58045	5.76	ug/L		99
96) 1,2,4-Trimethylbenzene	12.897	105	71436	5.76	ug/L		98
97) sec-Butylbenzene	13.080	105	92289	5.77	ug/L		97
98) p-Isopropyltoluene	13.244	119	72009	5.52	ug/L		97
99) 1,3-Dclbenz	13.153	146	39869	5.93	ug/L		97
100) 1,4-Dclbenz	13.250	146	41273	5.96	ug/L		97
101) n-Butylbenzene	13.671	91	71520	5.48	ug/L		97
102) 1,2-Dclbenz	13.628	146	38630	5.93	ug/L		99
103) 1,2-Dibromo-3-chloropr...	14.433	157	4166	5.76	ug/L		96

1st FN 08/04/16
2nd 08/04/16

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA14\Data\080316\
Data File : B7322.D
Acq On : 3 Aug 2016 11:41 am
Operator : F.Naegler
Sample : 5.0 PPB STD Inst : MSVOA14
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 03 12:35:53 2016
Quant Method : I:\ACQUDATA\MSVOA14\Methods\S080316.M
Quant Title : MS#14 - 8260 SOILS 10ml PURGE
QLast Update : Wed Aug 03 09:03:16 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
104) 1,2,4-Tcbenzene	15.274	180	26520	6.04 ug/L	97
105) Hexachlorobt	15.476	225	13269	6.18 ug/L	93
106) Naphthalen	15.506	128	70303	5.39 ug/L	99
107) 1,2,3-Tclbenzene	15.756	180	26965	6.14 ug/L	96

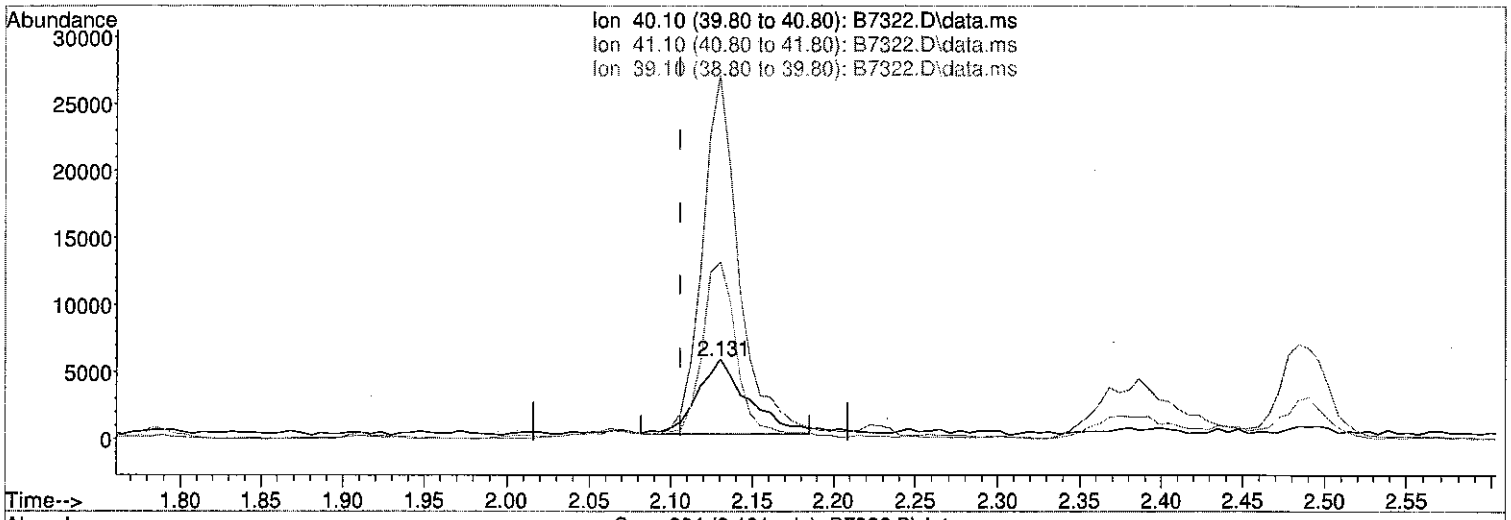
(#) = qualifier out of range (m) = manual integration (+) = signals summed

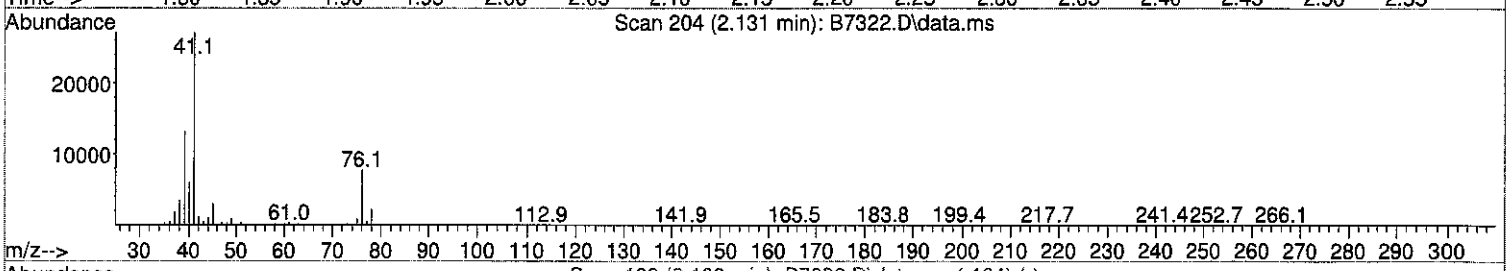
1st FN 08/04/16
2nd WR 08/04/16

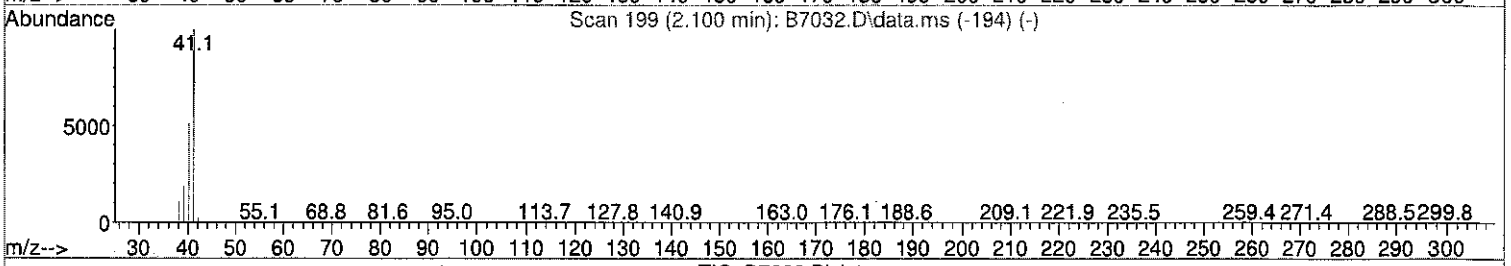
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\080316\
Data File : B7322.D
Acq On : 3 Aug 2016 11:41 am
Operator : F.Naegler
Sample : 5.0 PPB STD Inst : MSVOA14
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 03 12:30:29 2016
Quant Method : I:\ACQUDATA\MSVOA14\Methods\S080316.M
Quant Title : MS#14 - 8260 SOILS 10ml PURGE
QLast Update : Wed Aug 03 09:03:16 2016
Response via : Initial Calibration







TIC: B7322.D\data.ms

(19) Acetonitrile

2.131min (+0.025) 43.98 ug/L

response 11934

Ion	Exp%	Act%
40.10	100	100
41.10	534.60	455.62#
39.10	371.40	221.25#
0.00	0.00	0.00

Manual Integration:

Before

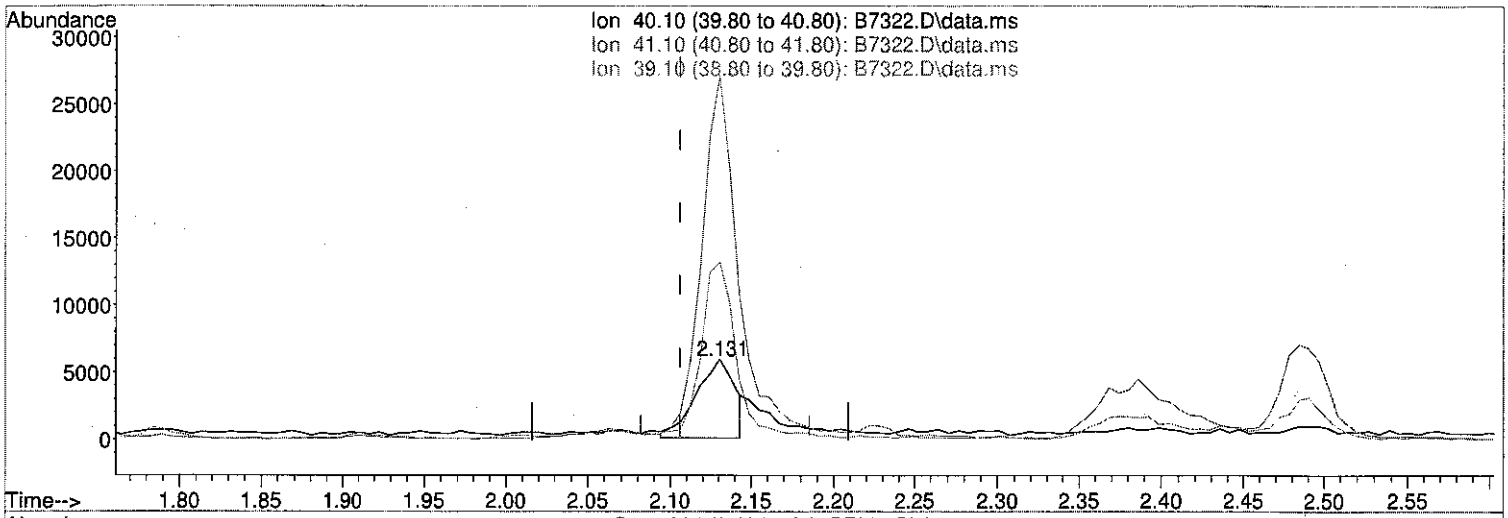
08/03/16

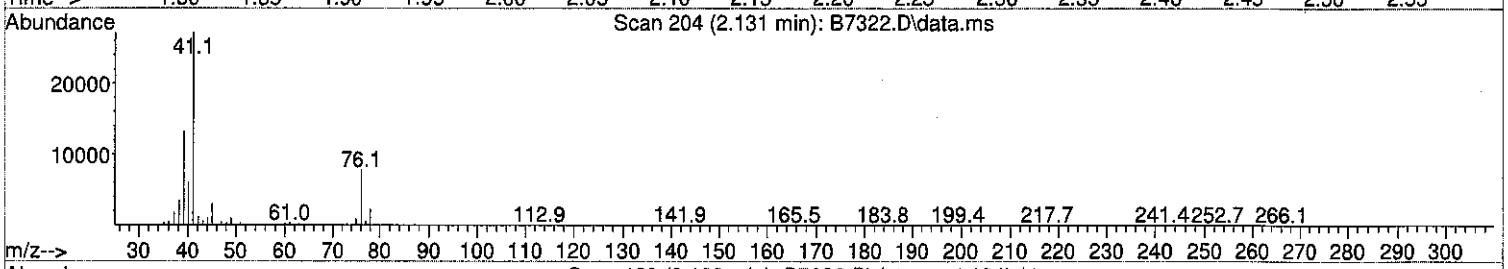
1st FN 08/04/16
2nd KR 08/04/16

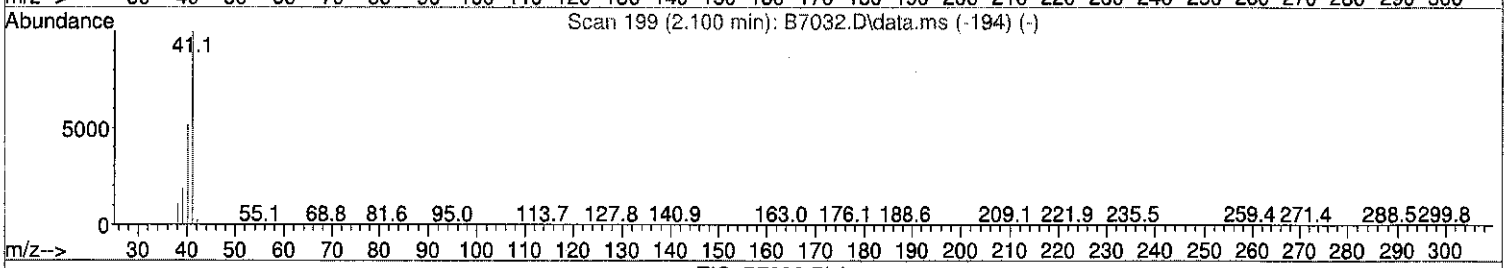
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\080316\
Data File : B7322.D
Acq On : 3 Aug 2016 11:41 am
Operator : F.Naegler
Sample : 5.0 PPB STD Inst : MSVOA14
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 03 12:30:29 2016
Quant Method : I:\ACQUDATA\MSVOA14\Methods\S080316.M
Quant Title : MS#14 - 8260 SOILS 10ml PURGE
QLast Update : Wed Aug 03 09:03:16 2016
Response via : Initial Calibration







TIC: B7322.D\data.ms

(19) Acetonitrile

2.131min (+0.025) 35.57 ug/L m

response 9652

Ion	Exp%	Act%
40.10	100	100
41.10	534.60	455.62#
39.10	371.40	221.25#
0.00	0.00	0.00

Manual Integration:

After

Poor integration.

08/03/16

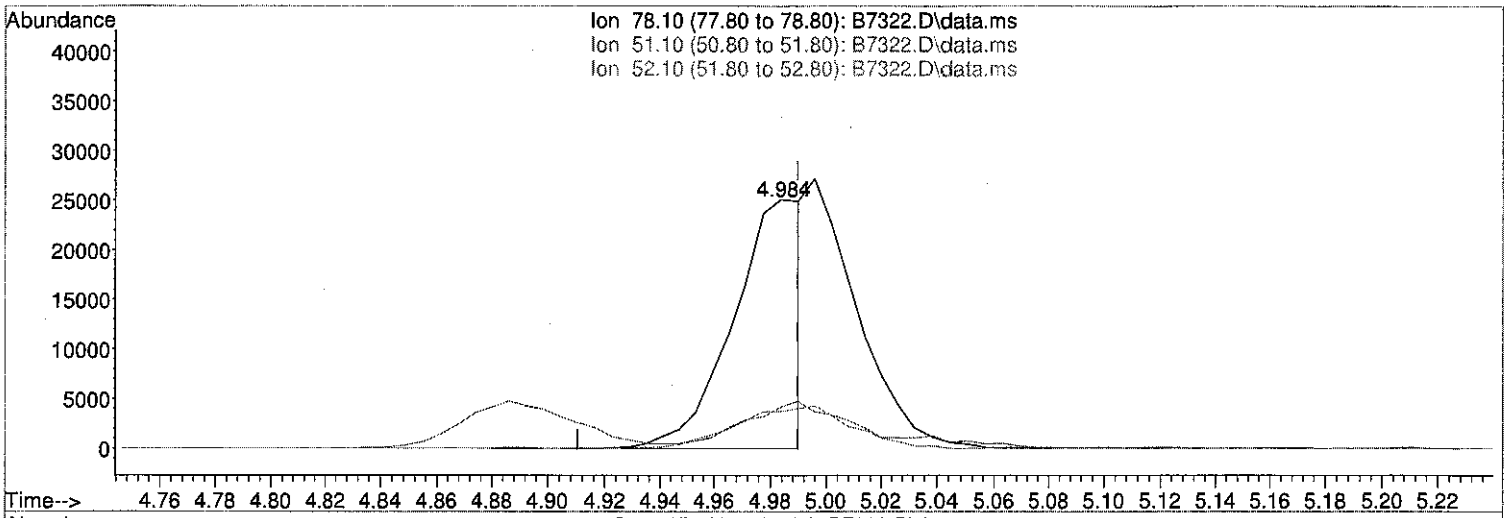
S080316.M Wed Aug 03 12:35:16 2016 MSVO10 Page: 1

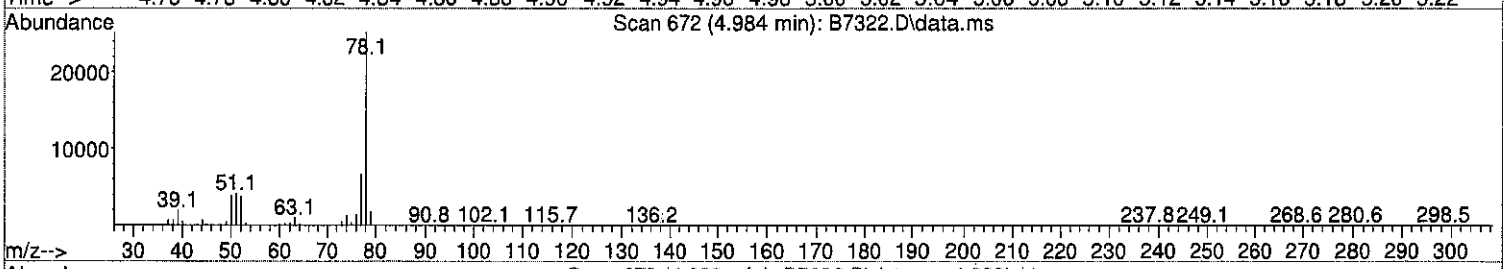
1st FN 08/04/16
2nd WR 08/04/16

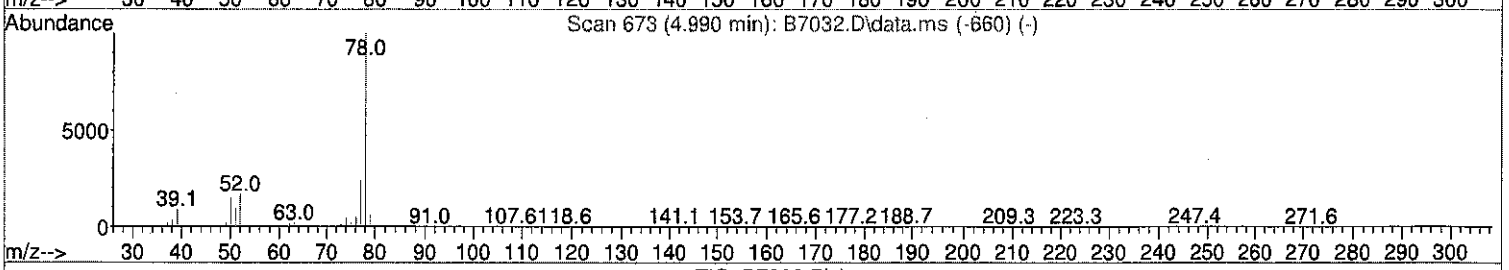
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\080316\
Data File : B7322.D
Acq On : 3 Aug 2016 11:41 am
Operator : F.Naegler
Sample : 5.0 PPB STD Inst : MSVOA14
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 03 12:30:29 2016
Quant Method : I:\ACQUDATA\MSVOA14\Methods\S080316.M
Quant Title : MS#14 - 8260 SOILS 10ml PURGE
QLast Update : Wed Aug 03 09:03:16 2016
Response via : Initial Calibration







TIC: B7322.D\data.ms

(48) Benzene (P)

4.984min (-0.006) 3.25 ug/L

response 42742

Ion	Exp%	Act%
78.10	100	100
51.10	16.00	16.59
52.10	15.40	14.94
0.00	0.00	0.00

Manual Integration:

Before

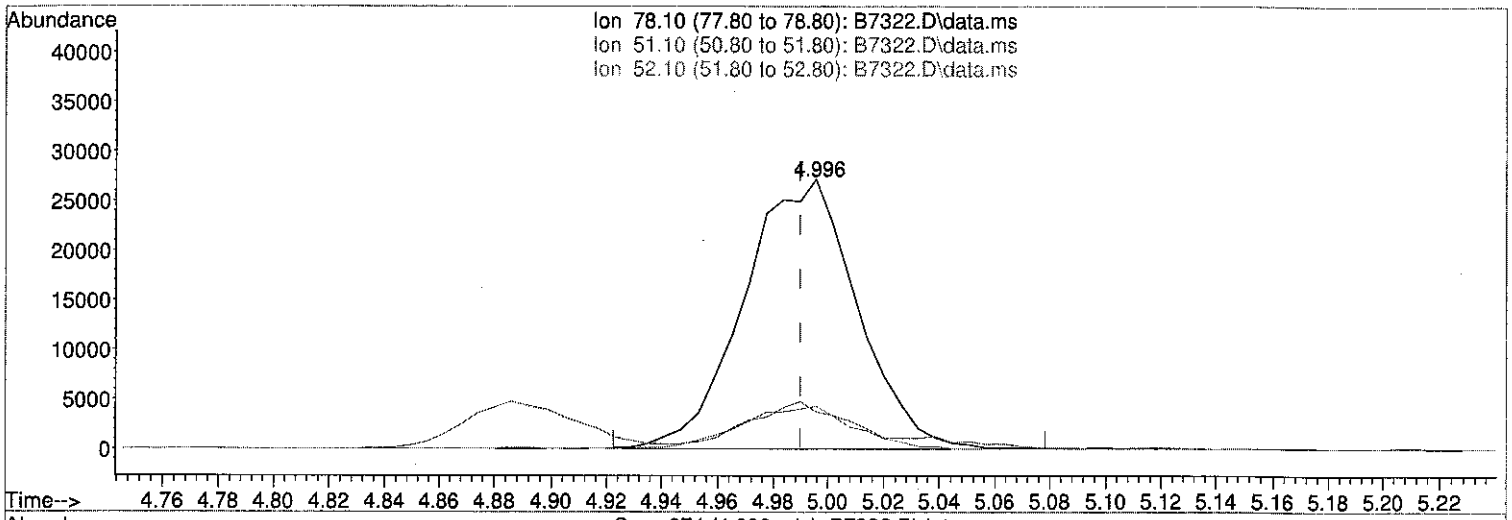
08/03/16

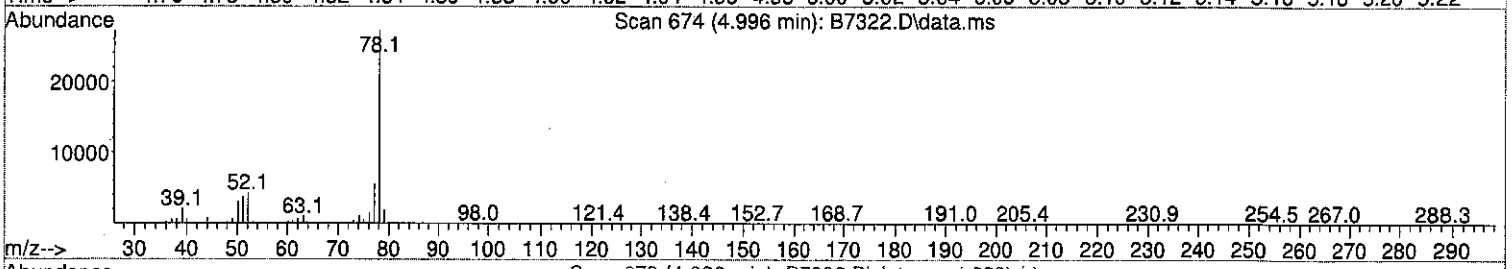
1st FN 08/04/16
2nd KR 08/04/16

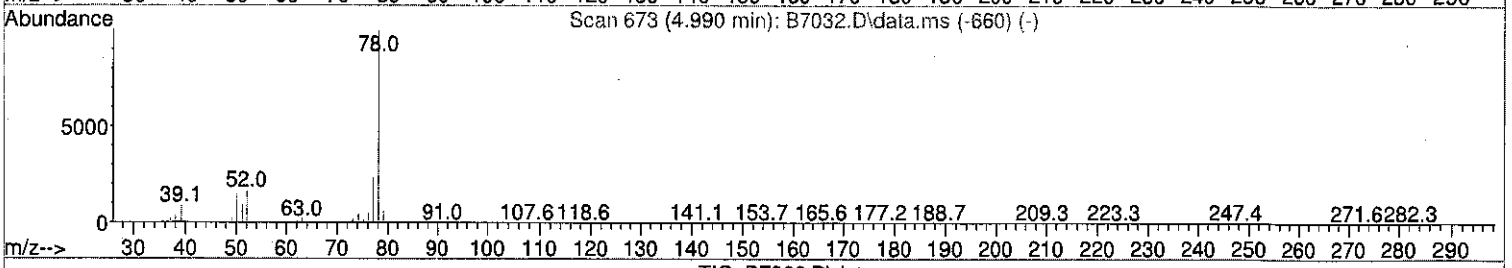
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\080316\
Data File : B7322.D
Acq On : 3 Aug 2016 11:41 am
Operator : F.Naegler
Sample : 5.0 PPB STD Inst : MSVOA14
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 03 12:30:29 2016
Quant Method : I:\ACQUDATA\MSVOA14\Methods\S080316.M
Quant Title : MS#14 - 8260 SOILS 10ml PURGE
QLast Update : Wed Aug 03 09:03:16 2016
Response via : Initial Calibration







TIC: B7322.D\data.ms

(48) Benzene (P)

4.996min (+0.006) 5.87 ug/L m

response 77124

Ion	Exp%	Act%
78.10	100	100
51.10	16.00	13.65
52.10	15.40	15.79
0.00	0.00	0.00

Manual Integration:

After

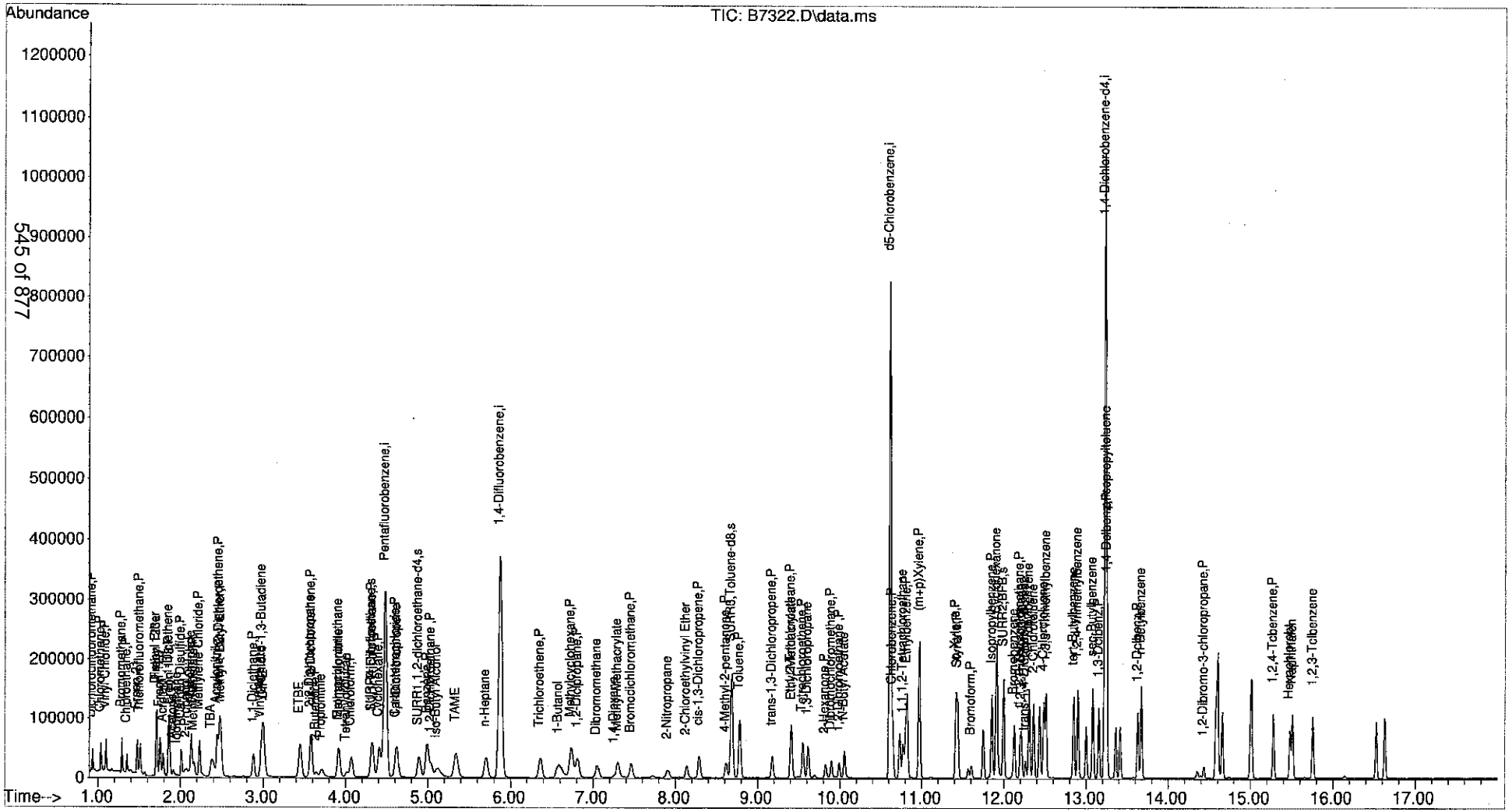
Poor integration.

08/03/16

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA14\Data\080316\
Data File : B7322.D
Acq On : 3 Aug 2016 11:41 am
Operator : F.Naegler
Sample : 5.0 PPB STD Inst : MSVOA14
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 03 12:35:53 2016
Quant Method : I:\ACQUDATA\MSVOA14\Methods\S080316.M
Quant Title : MS#14 - 8260 SOILS 10ml PURGE
QLast Update : Wed Aug 03 09:03:16 2016
Response via : Initial Calibration



1st FJ 08/04/16
2nd 08/04/16

1st FN 08/04/16
2nd KR 08/04/16

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA14\Data\080316\
Data File : B7323.D
Acq On : 3 Aug 2016 12:33 pm
Operator : F.Naegler
Sample : 20 PPB STD Inst : MSVOA14
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 03 15:18:11 2016
Quant Method : I:\ACQUDATA\MSVOA14\Methods\S080316.M
Quant Title : MS#14 - 8260 SOILS 10ml PURGE
QLast Update : Wed Aug 03 09:03:16 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.478	168	300466	50.00	ug/L	0.00
42) 1,4-Difluorobenzene	5.874	114	501907	50.00	ug/L	0.00
70) d5-Chlorobenzene	10.611	117	430372	50.00	ug/L	0.00
87) 1,4-Dichlorobenzene-d4	13.226	152	200646	50.00	ug/L	0.00
System Monitoring Compounds						
44) SURR4,Dibrflmethane	4.313	113	52191	18.42	ug/L	-0.01
Spiked Amount 50.000	Range 63 - 138		Recovery = 36.84%#			
47) SURR1,1,2-dichloroetha...	4.886	65	60081	16.60	ug/L	0.00
Spiked Amount 50.000	Range 67 - 128		Recovery = 33.20%#			
64) SURR3,Toluene-d8	8.684	98	219041	17.85	ug/L	0.00
Spiked Amount 50.000	Range 66 - 138		Recovery = 35.70%#			
69) SURR2,BFB	11.988	95	75463	16.61	ug/L	0.00
Spiked Amount 50.000	Range 51 - 136		Recovery = 33.22%#			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	0.930	85	94920	22.16	ug/L	99
3) Chloromethane	1.033	50	115466	21.65	ug/L	97
4) Vinyl Chloride	1.094	62	108706	19.42	ug/L	97
5) Bromomethane	1.289	94	70703	25.44	ug/L	98
6) Chloroethane	1.350	64	59535	19.47	ug/L	99
7) Freon 21	1.472	67	140845	20.67	ug/L	98
8) Trichlorofluoromethane	1.509	101	92108	22.05	ug/L	96
9) Diethyl Ether	1.704	59	71321	21.03	ug/L	90
10) Freon 123a	1.710	67	92920	22.16	ug/L	92
11) Freon 123	1.753	83	105343	22.68	ug/L	98
12) Acrolein	1.783	56	91558	123.76	ug/L	96
13) 1,1-Diclethene	1.856	96	68846	23.26	ug/L	98
14) Freon 113	1.862	101	66588	23.99	ug/L	88
15) Acetone	1.899	43	36413	24.27	ug/L	98
16) 2-Propanol	2.039	45	144605	408.15	ug/L	98
17) Iodomethane	1.960	142	15572	14.10	ug/L	90
18) Carbon Disulfide	2.009	76	180234	19.32	ug/L	100
19) Acetonitrile	2.124	40	27466m	104.14	ug/L	
20) Allyl Chloride	2.131	76	42536	28.60	ug/L #	84
21) Methyl Acetate	2.155	43	69030	20.53	ug/L	96
22) Methylene Chloride	2.228	84	86447	21.91	ug/L	96
23) TBA	2.362	59	212121	408.19	ug/L	85
24) Acrylonitrile	2.442	53	185503	106.99	ug/L	95
25) Methyl-t-Butyl Ether	2.484	73	222407	21.44	ug/L	96
26) trans-1,2-Dichloroethene	2.472	96	80244	23.65	ug/L	97
27) 1,1-Diclethane	2.880	63	136566	22.32	ug/L	97
28) Vinyl Acetate	2.966	86	17277	22.71	ug/L #	72
29) DIPE	3.002	45	243490	18.48	ug/L	91
30) 2-Chloro-1,3-Butadiene	2.984	53	106581	18.92	ug/L	97
31) ETBE	3.447	59	205265	18.41	ug/L	95
32) 2,2-Dichloropropane	3.569	77	75190	19.97	ug/L	100
33) cis-1,2-Dichloroethene	3.582	96	84465	22.49	ug/L	99
34) 2-Butanone	3.636	43	45204	19.65	ug/L	95
35) Propionitrile	3.697	54	69752	102.20	ug/L	95
36) Bromochloromethane	3.911	130	48762	23.54	ug/L #	83
37) Methacrylonitrile	3.911	67	37306	21.19	ug/L	89
38) Tetrahydrofuran	4.002	42	26158	18.54	ug/L	81
39) Chloroform	4.069	83	130366	21.71	ug/L	98
40) 1,1,1-Trichloroethane	4.325	97	88108	21.70	ug/L	97

1st FN 08/04/16
2nd 08/04/16

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA14\Data\080316\
Data File : B7323.D
Acq On : 3 Aug 2016 12:33 pm
Operator : F.Naegler
Sample : 20 PPB STD Inst : MSVOA14
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 03 15:18:11 2016
Quant Method : I:\ACQUDATA\MSVOA14\Methods\S080316.M
Quant Title : MS#14 - 8260 SOILS 10ml PURGE
QLast Update : Wed Aug 03 09:03:16 2016
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41)	TAME	5.331	73	194267	19.35	ug/L		99
43)	Cyclohexane	4.405	41	65611	19.54	ug/L		85
45)	Carbontetrachloride	4.606	121	21741	23.07	ug/L		96
46)	1,1-Dichloropropene	4.618	75	100654	23.14	ug/L		95
48)	Benzene	4.990	78	317035	23.11	ug/L		98
49)	1,2-Dichloroethane	5.039	62	90851	21.07	ug/L		97
50)	Iso-Butyl Alcohol	5.087	43	87650	384.75	ug/L		89
51)	n-Heptane	5.697	43	109029	21.87	ug/L		96
52)	1-Butanol	6.557	56	147163	1022.34	ug/L		98
53)	Trichloroethene	6.355	130	71049	24.17	ug/L		95
54)	Methylcyclohexane	6.733	55	103599	20.96	ug/L		93
55)	1,2-Diclpropane	6.807	63	82425	22.15	ug/L		95
56)	Dibromomethane	7.044	93	47484	22.77	ug/L		94
57)	1,4-Dioxane	7.245	88	28435	470.12	ug/L		95
58)	Methyl Methacrylate	7.300	69	58767	21.18	ug/L		86
59)	Bromodichloromethane	7.459	83	85613	21.49	ug/L		99
60)	2-Nitropropane	7.904	41	31976	51.51	ug/L	#	62
61)	2-Chloroethylvinyl Ether	8.136	63	45421	19.67	ug/L		98
62)	cis-1,3-Dichloropropene	8.288	75	113724	22.82	ug/L		97
63)	4-Methyl-2-pentanone	8.611	43	73607	18.09	ug/L		96
65)	Toluene	8.782	91	317860	22.61	ug/L		99
66)	trans-1,3-Dichloropropene	9.178	75	90026	24.21	ug/L		99
67)	Ethyl Methacrylate	9.410	69	102622	22.16	ug/L		97
68)	1,1,2-Trichloroethane	9.404	97	69271	23.58	ug/L		89
71)	Tetrachloroethene	9.550	164	52828	24.56	ug/L		96
72)	2-Hexanone	9.824	43	59711	20.73	ug/L		95
73)	1,3-Dichloropropane	9.611	76	124636	24.22	ug/L		98
74)	Dibromochloromethane	9.897	129	63394	24.14	ug/L		98
75)	N-Butyl Acetate	10.056	43	112124	18.02	ug/L		97
76)	1,2-Dibromoethane	9.989	107	65452	22.95	ug/L		98
77)	Chlorobenzene	10.641	112	207840	24.69	ug/L		100
78)	1,1,1,2-Tetrachloroethane	10.769	131	61205	25.81	ug/L		98
79)	Ethylbenzene	10.818	106	108661	24.59	ug/L		94
80)	(m+p)Xylene	10.970	106	260748	48.35	ug/L		99
81)	o-Xylene	11.415	106	131590	25.04	ug/L		98
82)	Styrene	11.434	104	213577	23.68	ug/L		99
83)	Bromoform	11.604	173	34331	25.69	ug/L		94
84)	Isopropylbenzene	11.854	105	306547	23.14	ug/L		98
85)	Cyclohexanone	11.903	55	303028	462.37	ug/L		92
86)	trans-1,4-Dichloro-2-B...	12.257	53	19600	17.04	ug/L		88
88)	1,1,2,2-Tetrachloroethane	12.196	83	90276	20.31	ug/L		97
89)	Bromobenzene	12.123	156	80804	24.91	ug/L		93
90)	1,2,3-Trichloropropane	12.214	110	26073	22.21	ug/L	#	81
91)	n-Propylbenzene	12.305	91	372397	22.08	ug/L		99
92)	2-Chlorotoluene	12.360	91	216644	22.59	ug/L		97
93)	4-Chlorotoluene	12.482	91	263035	22.79	ug/L		99
94)	1,3,5-Trimethylbenzene	12.513	105	261143	23.62	ug/L		99
95)	tert-Butylbenzene	12.848	119	217878	23.69	ug/L		98
96)	1,2,4-Trimethylbenzene	12.897	105	268597	23.77	ug/L		99
97)	sec-Butylbenzene	13.080	105	341051	23.38	ug/L		97
98)	p-Isopropyltoluene	13.244	119	277420	23.33	ug/L		96
99)	1,3-Dclbenz	13.153	146	152618	24.89	ug/L		98
100)	1,4-Dclbenz	13.250	146	153834	24.37	ug/L		99
101)	n-Butylbenzene	13.671	91	274423	23.05	ug/L		99
102)	1,2-Dclbenz	13.628	146	145962	24.56	ug/L		99
103)	1,2-Dibromo-3-chloropr...	14.433	157	15479	22.26	ug/L		97

1st FN 08/04/16
2nd KR 08/04/16

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA14\Data\080316\
Data File : B7323.D
Acq On : 3 Aug 2016 12:33 pm
Operator : F.Naegler
Sample : 20 PPB STD Inst : MSVOA14
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 03 15:18:11 2016
Quant Method : I:\ACQUDATA\MSVOA14\Methods\S080316.M
Quant Title : MS#14 - 8260 SOILS 10ml PURGE
QLast Update : Wed Aug 03 09:03:16 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
104) 1,2,4-Tcbenzene	15.274	180	110016	27.47 ug/L	93
105) Hexachlorobt	15.476	225	54944	28.06 ug/L	96
106) Naphthalen	15.506	128	277670	23.36 ug/L	98
107) 1,2,3-Tclbenzene	15.756	180	108276	27.05 ug/L	96

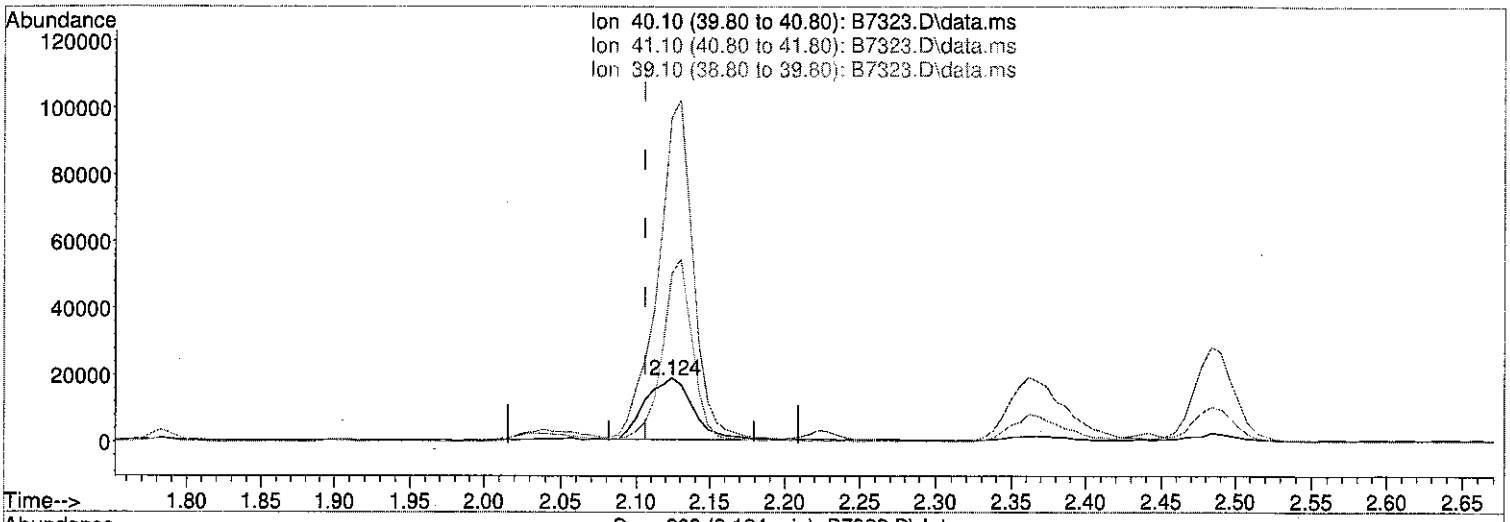
(#) = qualifier out of range (m) = manual integration (+) = signals summed

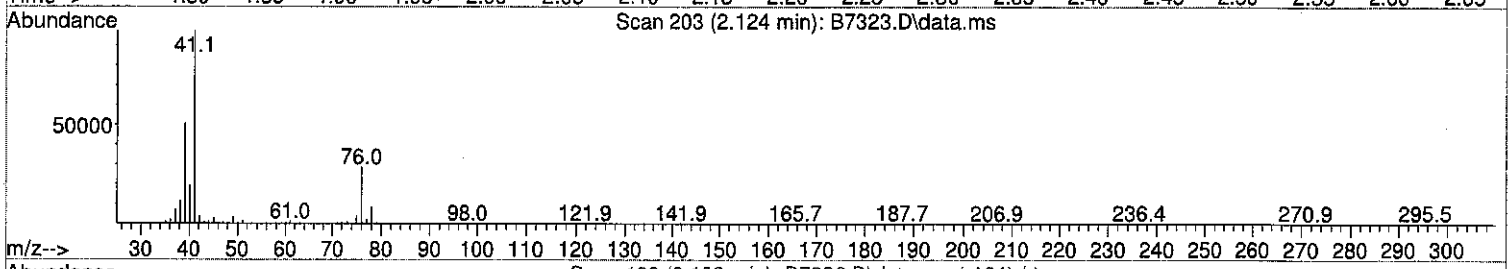
1st FN 08/04/16
2nd KR 08/04/16

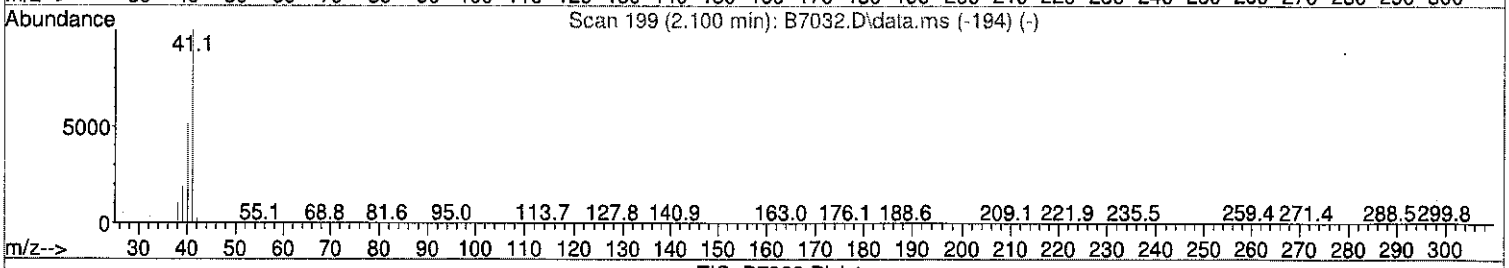
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\080316\
Data File : B7323.D
Acq On : 3 Aug 2016 12:33 pm
Operator : F.Naegler
Sample : 20 PPB STD Inst : MSVOA14
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 03 12:51:42 2016
Quant Method : I:\ACQUDATA\MSVOA14\Methods\S080316.M
Quant Title : MS#14 - 8260 SOILS 10ml PURGE
QLast Update : Wed Aug 03 09:03:16 2016
Response via : Initial Calibration







TIC: B7323.D\data.ms

(19) Acetonitrile

2.124min (+0.018) 156.60 ug/L

response 41303

Ion	Exp%	Act%
40.10	100	100
41.10	534.60	507.53#
39.10	371.40	263.36#
0.00	0.00	0.00

Manual Integration:

Before

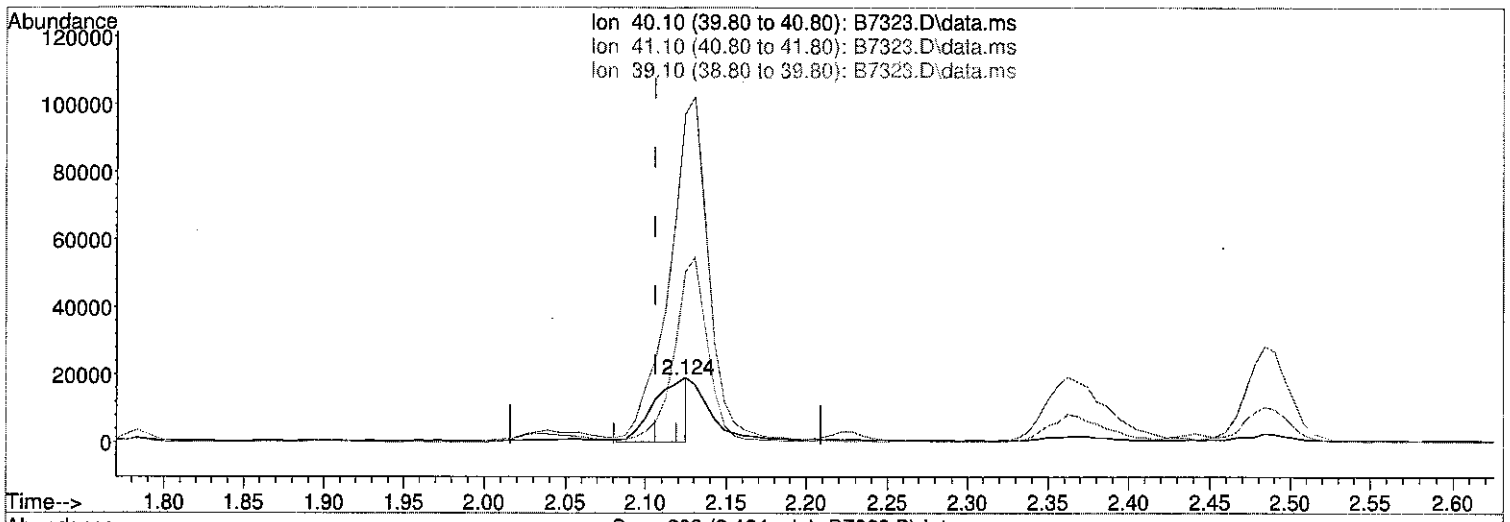
08/03/16

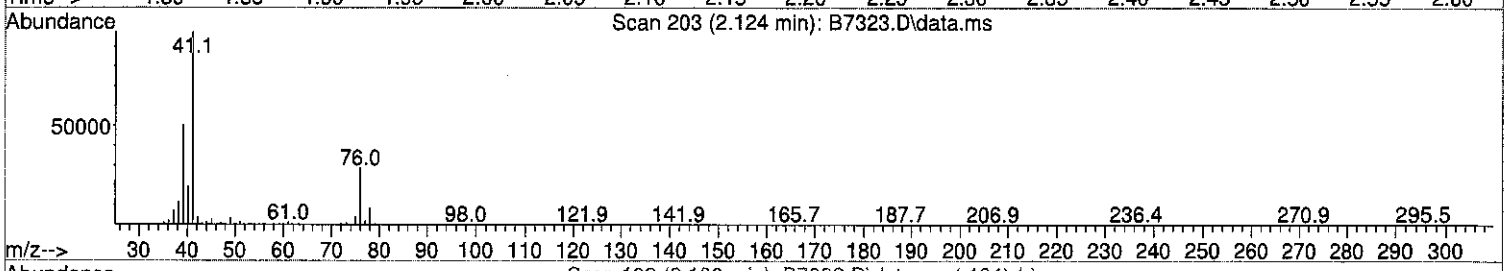
1st FN 08/04/16
2nd KR 08/04/16

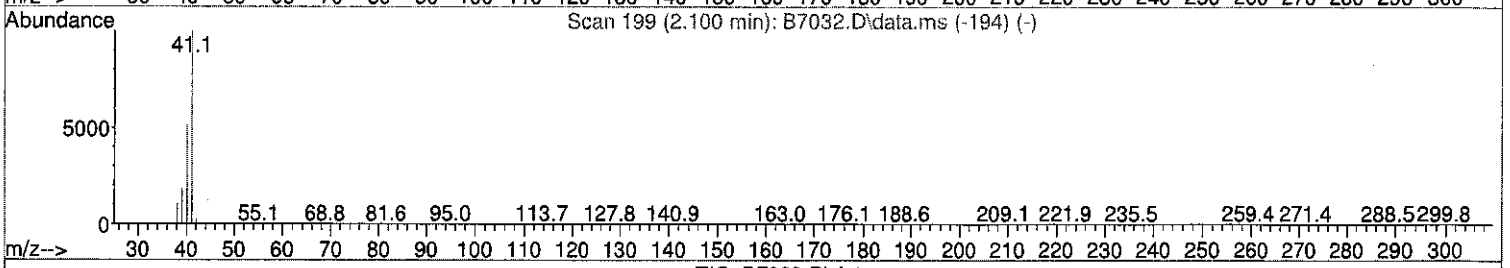
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\080316\
Data File : B7323.D
Acq On : 3 Aug 2016 12:33 pm
Operator : F.Naegler
Sample : 20 PPB STD Inst : MSVOA14
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 03 12:52:34 2016
Quant Method : I:\ACQUDATA\MSVOA14\Methods\S080316.M
Quant Title : MS#14 - 8260 SOILS 10ml PURGE
QLast Update : Wed Aug 03 09:03:16 2016
Response via : Initial Calibration







TIC: B7323.D\data.ms

(19) Acetonitrile

2.124min (+0.018) 104.14 ug/L m

response 27466

Ion	Exp%	Act%
40.10	100	100
41.10	534.60	507.53#
39.10	371.40	263.36#
0.00	0.00	0.00

Manual Integration:

After

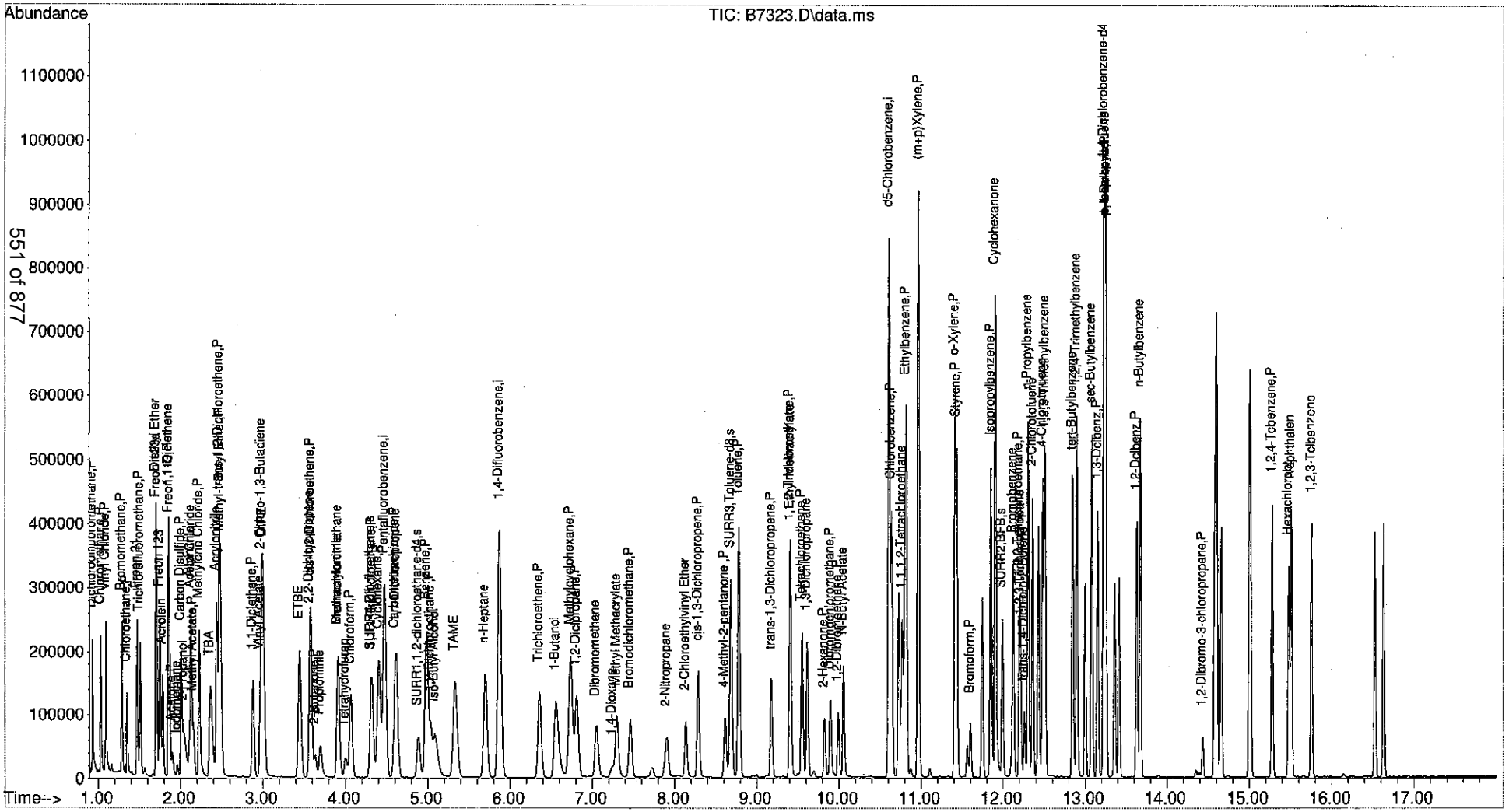
Poor integration.

08/03/16

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA14\Data\080316\
Data File : B7323.D
Acq On : 3 Aug 2016 12:33 pm
Operator : F.Naegler
Sample : 20 PPB STD Inst : MSVOA14
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 03 15:18:11 2016
Quant Method : I:\ACQUDATA\MSVOA14\Methods\S080316.M
Quant Title : MS#14 - 8260 SOILS 10ml PURGE
QLast Update : Wed Aug 03 09:03:16 2016
Response via : Initial Calibration



1st FJ 08/04/16
2nd 08/04/16

1st FJ 08/04/16
2nd WR 08/04/16

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA14\Data\080316\
Data File : B7324.D
Acq On : 3 Aug 2016 12:57 pm
Operator : F.Naegler
Sample : 50 PPB STD Inst : MSVOA14
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 03 14:12:18 2016
Quant Method : I:\ACQUDATA\MSVOA14\Methods\S080316.M
Quant Title : MS#14 - 8260 SOILS 10ml PURGE
QLast Update : Wed Aug 03 12:58:49 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.484	168	307267	50.00	ug/L	0.00
42) 1,4-Difluorobenzene	5.874	114	512578	50.00	ug/L	0.00
70) d5-Chlorobenzene	10.611	117	449911	50.00	ug/L	0.00
87) 1,4-Dichlorobenzene-d4	13.226	152	220608	50.00	ug/L	0.00
System Monitoring Compounds						
44) SURR4,Dibrflmethane	4.319	113	157792	55.60	ug/L	0.00
Spiked Amount 50.000	Range 63 - 138		Recovery = 111.20%			
47) SURR1,1,2-dichloroetha...	4.892	65	178999	53.56	ug/L	0.00
Spiked Amount 50.000	Range 67 - 128		Recovery = 107.12%			
64) SURR3,Toluene-d8	8.684	98	653267	52.83	ug/L	0.00
Spiked Amount 50.000	Range 66 - 138		Recovery = 105.66%			
69) SURR2,BFB	11.994	95	224030	48.47	ug/L	0.00
Spiked Amount 50.000	Range 51 - 136		Recovery = 96.94%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	0.930	85	241131	54.78	ug/L	99
3) Chloromethane	1.033	50	287927	50.17	ug/L	99
4) Vinyl Chloride	1.094	62	269107	50.66	ug/L	100
5) Bromomethane	1.283	94	164708	43.95	ug/L	99
6) Chloroethane	1.350	64	157772	57.75	ug/L	99
7) Freon 21	1.472	67	383137	55.26	ug/L	99
8) Trichlorofluoromethane	1.509	101	228891	48.46	ug/L	99
9) Diethyl Ether	1.704	59	192211	51.22	ug/L	91
10) Freon 123a	1.710	67	248100	49.34	ug/L	92
11) Freon 123	1.753	83	284623	49.35	ug/L	97
12) Acrolein	1.783	56	244858	267.13	ug/L	100
13) 1,1-Diclethene	1.856	96	172104	49.37	ug/L	98
14) Freon 113	1.862	101	168626	47.00	ug/L	91
15) Acetone	1.893	43	96356	29.51	ug/L	95
16) 2-Propanol	2.015	45	341921	881.85	ug/L	94
17) Iodomethane	1.960	142	109831	202.42	ug/L	98
18) Carbon Disulfide	2.009	76	531255	56.18	ug/L	99
19) Acetonitrile	2.100	40	77424	236.66	ug/L #	1
20) Allyl Chloride	2.131	76	108890	49.01	ug/L #	75
21) Methyl Acetate	2.155	43	178010	51.44	ug/L	96
22) Methylene Chloride	2.228	84	220785	49.81	ug/L	96
23) TBA	2.350	59	575265	1037.24	ug/L	88
24) Acrylonitrile	2.435	53	500931	265.55	ug/L	98
25) Methyl-t-Butyl Ether	2.490	73	593149	53.55	ug/L	96
26) trans-1,2-Dichloroethene	2.472	96	200873	48.42	ug/L	96
27) 1,1-Diclethane	2.886	63	349522	50.95	ug/L	98
28) Vinyl Acetate	2.972	86	43592	53.50	ug/L #	66
29) DIPE	3.008	45	673919	53.32	ug/L	89
30) 2-Chloro-1,3-Butadiene	2.990	53	309272	55.01	ug/L	98
31) ETBE	3.447	59	578904	53.15	ug/L	94
32) 2,2-Dichloropropane	3.581	77	210305	53.72	ug/L	96
33) cis-1,2-Dichloroethene	3.581	96	227729	52.14	ug/L	95
34) 2-Butanone	3.630	43	127533	49.12	ug/L	97
35) Propionitrile	3.691	54	194873	269.87	ug/L	97
36) Bromochloromethane	3.911	130	126680	49.92	ug/L #	81
37) Methacrylonitrile	3.917	67	106602	57.93	ug/L	96
38) Tetrahydrofuran	3.996	42	79303	56.68	ug/L	85
39) Chloroform	4.069	83	344785	51.42	ug/L	98
40) 1,1,1-Trichloroethane	4.325	97	234397	51.96	ug/L	97

1st FN 08/04/16
2nd NR 08/04/16

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA14\Data\080316\
Data File : B7324.D
Acq On : 3 Aug 2016 12:57 pm
Operator : F.Naegler
Sample : 50 PPB STD Inst : MSVOA14
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 03 14:12:18 2016
Quant Method : I:\ACQUDATA\MSVOA14\Methods\S080316.M
Quant Title : MS#14 - 8260 SOILS 10ml PURGE
QLast Update : Wed Aug 03 12:58:49 2016
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
41)	TAME	5.337	73	526694	53.89 ug/L	98
43)	Cyclohexane	4.411	41	179038	49.24 ug/L	84
45)	Carbontetrachloride	4.612	121	54882	50.65 ug/L	98
46)	1,1-Dichloropropene	4.624	75	256732	47.27 ug/L	98
48)	Benzene	4.990	78	789915	47.92 ug/L	98
49)	1,2-Dichloroethane	5.038	62	239728	50.19 ug/L	95
50)	Iso-Butyl Alcohol	5.075	43	241121	1119.88 ug/L	96
51)	n-Heptane	5.703	43	278880	50.34 ug/L	96
52)	1-Butanol	6.532	56	391377	2797.16 ug/L	99
53)	Trichloroethene	6.361	130	185744	49.25 ug/L	97
54)	Methylcyclohexane	6.745	55	290467	50.12 ug/L	94
55)	1,2-Diclpropane	6.813	63	220648	53.24 ug/L	98
56)	Dibromomethane	7.056	93	124212	51.52 ug/L	95
57)	1,4-Dioxane	7.197	88	69374	1004.32 ug/L	82
58)	Methyl Methacrylate	7.300	69	161343	57.75 ug/L	94
59)	Bromodichloromethane	7.465	83	240967	54.19 ug/L	100
60)	2-Nitropropane	7.910	41	74472	75.63 ug/L	91
61)	2-Chloroethylvinyl Ether	8.135	63	118625	55.06 ug/L	98
62)	cis-1,3-Dichloropropene	8.288	75	318939	60.00 ug/L	98
63)	4-Methyl-2-pentanone	8.611	43	218827	58.35 ug/L	98
65)	Toluene	8.782	91	847220	51.35 ug/L	100
66)	trans-1,3-Dichloropropene	9.178	75	256181	60.94 ug/L	99
67)	Ethyl Methacrylate	9.410	69	285611	59.87 ug/L	94
68)	1,1,2-Trichloroethane	9.403	97	183237	54.31 ug/L	91
71)	Tetrachloroethene	9.550	164	136505	47.68 ug/L	98
72)	2-Hexanone	9.824	43	171243	60.81 ug/L	95
73)	1,3-Dichloropropane	9.611	76	341359	53.93 ug/L	100
74)	Dibromochloromethane	9.897	129	179403	62.04 ug/L	99
75)	N-Butyl Acetate	10.056	43	328282	59.31 ug/L	97
76)	1,2-Dibromoethane	9.989	107	170318	53.23 ug/L	97
77)	Chlorobenzene	10.641	112	531516	49.58 ug/L	96
78)	1,1,1,2-Tetrachloroethane	10.769	131	165090	54.37 ug/L	97
79)	Ethylbenzene	10.818	106	282672	51.60 ug/L	94
80)	(m+p)Xylene	10.970	106	687780	104.93 ug/L	99
81)	o-Xylene	11.415	106	343007	51.48 ug/L	100
82)	Styrene	11.434	104	607911	55.65 ug/L	99
83)	Bromoform	11.604	173	101977	59.49 ug/L	98
84)	Isopropylbenzene	11.854	105	862960	51.04 ug/L	99
85)	Cyclohexanone	11.903	55	918159	1138.99 ug/L	93
86)	trans-1,4-Dichloro-2-B...	12.257	53	59915	55.72 ug/L	83
88)	1,1,2,2-Tetrachloroethane	12.196	83	274925	55.56 ug/L	98
89)	Bromobenzene	12.122	156	217357	51.05 ug/L #	84
90)	1,2,3-Trichloropropane	12.214	110	77504	57.25 ug/L #	88
91)	n-Propylbenzene	12.305	91	1083252	51.95 ug/L	97
92)	2-Chlorotoluene	12.360	91	566374	47.83 ug/L	99
93)	4-Chlorotoluene	12.482	91	724060	50.19 ug/L	97
94)	1,3,5-Trimethylbenzene	12.513	105	709153	51.00 ug/L	99
95)	tert-Butylbenzene	12.848	119	599622	50.40 ug/L	100
96)	1,2,4-Trimethylbenzene	12.897	105	761329	52.83 ug/L	98
97)	sec-Butylbenzene	13.080	105	964776	51.16 ug/L	98
98)	p-Isopropyltoluene	13.250	119	795072	53.15 ug/L	98
99)	1,3-Dclbenz	13.153	146	413914	49.71 ug/L	100
100)	1,4-Dclbenz	13.250	146	427443	49.30 ug/L	98
101)	n-Butylbenzene	13.671	91	813729	55.00 ug/L	99
102)	1,2-Dclbenz	13.628	146	411051	51.40 ug/L	97
103)	1,2-Dibromo-3-chloropr...	14.433	157	49757	62.86 ug/L	94

1st FN 08/04/16
2nd KR 08/04/16

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA14\Data\080316\
Data File : B7324.D
Acq On : 3 Aug 2016 12:57 pm
Operator : F.Naegler
Sample : 50 PPB STD Inst : MSVOA14
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 03 14:12:18 2016
Quant Method : I:\ACQUDATA\MSVOA14\Methods\S080316.M
Quant Title : MS#14 - 8260 SOILS 10ml PURGE
QLast Update : Wed Aug 03 12:58:49 2016
Response via : Initial Calibration

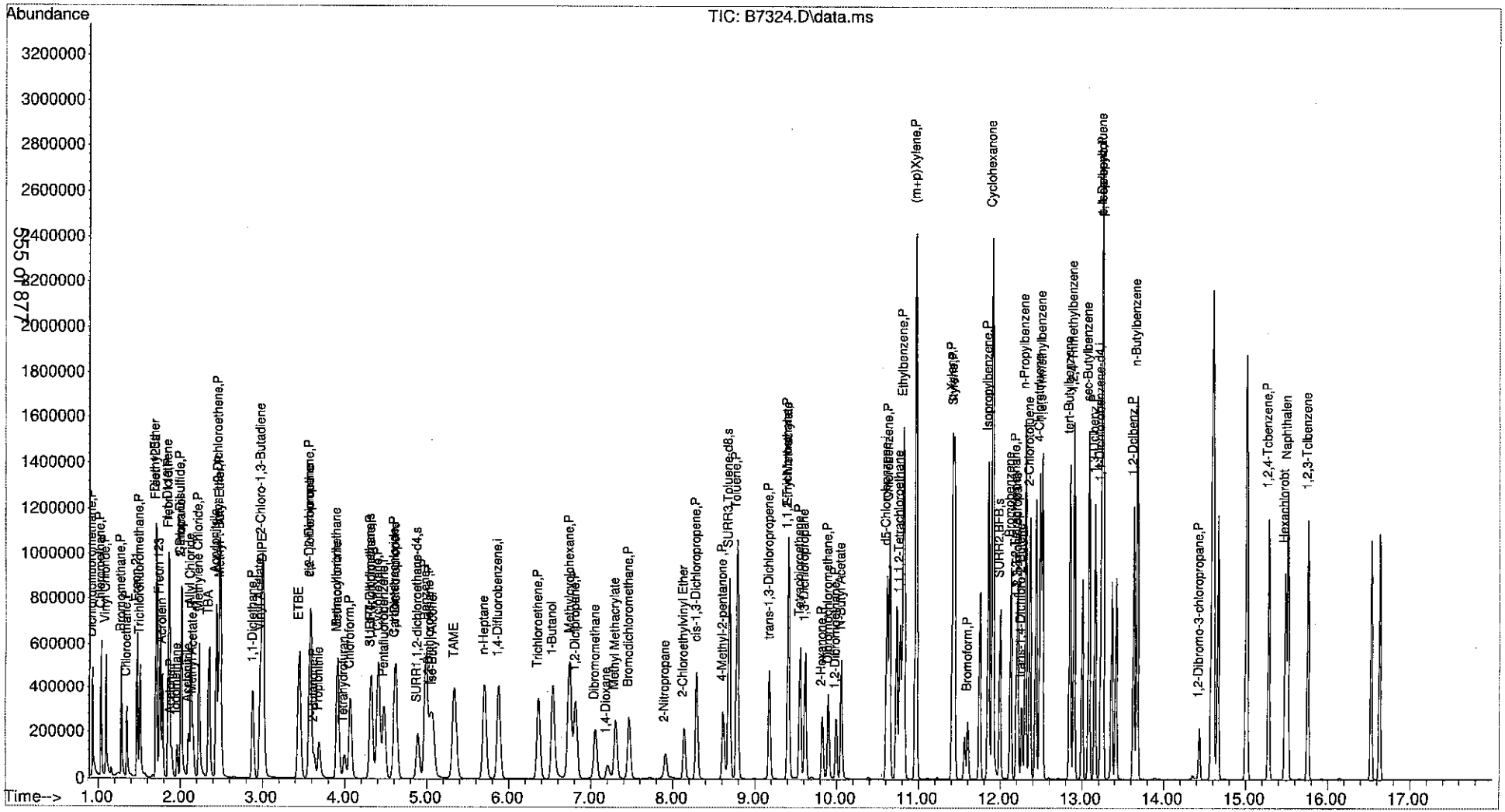
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
104) 1,2,4-Tcbenzene	15.274	180	301316	51.92 ug/L	99
105) Hexachlorobt	15.475	225	147196	49.00 ug/L	100
106) Naphthalen	15.506	128	829143	59.62 ug/L	99
107) 1,2,3-Tclbenzene	15.756	180	298038	53.69 ug/L	97

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

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA14\Data\080316\
Data File : B7324.D
Acq On : 3 Aug 2016 12:57 pm
Operator : F.Naegler
Sample : 50 PPB STD Inst : MSVOA14
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 03 14:12:18 2016
Quant Method : I:\ACQUDATA\MSVOA14\Methods\S080316.M
Quant Title : MS#14 - 8260 SOILS 10ml PURGE
QLast Update : Wed Aug 03 12:58:49 2016
Response via : Initial Calibration



1st FJ 08/04/16
2nd 08/04/16

1st FN 08/04/16
2nd 08/04/16

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA14\Data\080316\
Data File : B7325.D
Acq On : 3 Aug 2016 1:21 pm
Operator : F.Naegler
Sample : 100 PPB STD Inst : MSVOA14
Misc :
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 03 14:17:04 2016
Quant Method : I:\ACQUDATA\MSVOA14\Methods\S080316.M
Quant Title : MS#14 - 8260 SOILS 10ml PURGE
QLast Update : Wed Aug 03 14:16:19 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.484	168	321219	50.00	ug/L	0.00
42) 1,4-Difluorobenzene	5.874	114	519638	50.00	ug/L	0.00
70) d5-Chlorobenzene	10.610	117	466255	50.00	ug/L	0.00
87) 1,4-Dichlorobenzene-d4	13.226	152	214225	50.00	ug/L	0.00
System Monitoring Compounds						
44) SURR4,Dibrflmethane	4.319	113	330730	110.82	ug/L	0.00
Spiked Amount 50.000	Range 63 - 138		Recovery = 221.64%#			
47) SURR1,1,2-dichloroetha...	4.892	65	361892	104.34	ug/L	0.00
Spiked Amount 50.000	Range 67 - 128		Recovery = 208.68%#			
64) SURR3,Toluene-d8	8.684	98	1317990	103.19	ug/L	0.00
Spiked Amount 50.000	Range 66 - 138		Recovery = 206.38%#			
69) SURR2,BFB	11.994	95	510941	110.17	ug/L	0.00
Spiked Amount 50.000	Range 51 - 136		Recovery = 220.34%#			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	0.929	85	511229	109.01	ug/L	99
3) Chloromethane	1.033	50	586698	97.72	ug/L	99
4) Vinyl Chloride	1.094	62	572599	102.85	ug/L	99
5) Bromomethane	1.283	94	256487	67.10	ug/L	100
6) Chloroethane	1.344	64	325343	110.48	ug/L	100
7) Freon 21	1.472	67	789123	106.63	ug/L	99
8) Trichlorofluoromethane	1.509	101	492321	100.33	ug/L	99
9) Diethyl Ether	1.704	59	399539	101.35	ug/L	93
10) Freon 123a	1.704	67	516731	98.56	ug/L	85
11) Freon 123	1.752	83	596639	99.21	ug/L	99
12) Acrolein	1.783	56	496723	511.36	ug/L	98
13) 1,1-Diclethene	1.856	96	368051	101.25	ug/L	95
14) Freon 113	1.862	101	364008	98.23	ug/L	92
15) Acetone	1.899	43	156538	49.96	ug/L	92
16) 2-Propanol	2.015	45	736867	1861.91	ug/L	93
17) Iodomethane	1.960	142	289534	317.11	ug/L	94
18) Carbon Disulfide	2.008	76	1114098	109.98	ug/L	99
19) Acetonitrile	2.100	40	155305m	460.24	ug/L	
20) Allyl Chloride	2.130	76	227112	98.17	ug/L #	79
21) Methyl Acetate	2.155	43	363718	99.96	ug/L	97
22) Methylene Chloride	2.228	84	444773	96.06	ug/L	97
23) TBA	2.350	59	1229883	2105.56	ug/L	92
24) Acrylonitrile	2.435	53	1005590	503.66	ug/L	99
25) Methyl-t-Butyl Ether	2.484	73	1237292	105.36	ug/L	95
26) trans-1,2-Dichloroethene	2.472	96	416838	96.72	ug/L	96
27) 1,1-Diclethane	2.880	63	733755	101.93	ug/L	98
28) Vinyl Acetate	2.966	86	99088	114.72	ug/L #	67
29) DIPE	3.002	45	1391596	103.93	ug/L	90
30) 2-Chloro-1,3-Butadiene	2.990	53	638630	106.52	ug/L	98
31) ETBE	3.447	59	1220411	105.85	ug/L	96
32) 2,2-Dichloropropane	3.575	77	463160	111.51	ug/L	97
33) cis-1,2-Dichloroethene	3.581	96	471624	102.41	ug/L	94
34) 2-Butanone	3.630	43	249632	92.30	ug/L	99
35) Propionitrile	3.691	54	393672	513.34	ug/L	100
36) Bromochloromethane	3.911	130	255046	96.17	ug/L #	85
37) Methacrylonitrile	3.911	67	214115	107.89	ug/L	94
38) Tetrahydrofuran	3.996	42	160678	106.99	ug/L	89
39) Chloroform	4.063	83	694415	98.51	ug/L	98
40) 1,1,1-Trichloroethane	4.325	97	504993	106.25	ug/L	99

1st FN 08/04/16
2nd WR 08/04/16

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA14\Data\080316\
Data File : B7325.D
Acq On : 3 Aug 2016 1:21 pm
Operator : F.Naegler
Sample : 100 PPB STD Inst : MSVOA14
Misc :
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 03 14:17:04 2016
Quant Method : I:\ACQUDATA\MSVOA14\Methods\S080316.M
Quant Title : MS#14 - 8260 SOILS 10ml PURGE
QLast Update : Wed Aug 03 14:16:19 2016
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41)	TAME	5.337	73	1106511	106.64	ug/L		94
43)	Cyclohexane	4.410	41	370496	100.83	ug/L		85
45)	Carbontetrachloride	4.606	121	125671	114.10	ug/L		100
46)	1,1-Dichloropropene	4.624	75	547424	100.52	ug/L		98
48)	Benzene	4.990	78	1682599	101.54	ug/L		99
49)	1,2-Dichloroethane	5.038	62	497299	102.62	ug/L		97
50)	Iso-Butyl Alcohol	5.081	43	512185	2291.56	ug/L		93
51)	n-Heptane	5.703	43	533267	94.82	ug/L		98
52)	1-Butanol	6.544	56	779134	5365.25	ug/L		99
53)	Trichloroethene	6.361	130	385553	101.14	ug/L		95
54)	Methylcyclohexane	6.739	55	517095	87.97	ug/L		97
55)	1,2-Diclpropane	6.812	63	407082	95.65	ug/L		100
56)	Dibromomethane	7.050	93	249049	101.28	ug/L		97
57)	1,4-Dioxane	7.209	88	145002	2068.88	ug/L		78
58)	Methyl Methacrylate	7.300	69	337769	115.67	ug/L		93
59)	Bromodichloromethane	7.465	83	500831	109.26	ug/L		99
60)	2-Nitropropane	7.910	41	161188	169.75	ug/L		91
61)	2-Chloroethylvinyl Ether	8.135	63	254481	114.20	ug/L		96
62)	cis-1,3-Dichloropropene	8.288	75	667305	119.06	ug/L		99
63)	4-Methyl-2-pentanone	8.617	43	401354	102.15	ug/L		97
65)	Toluene	8.782	91	1698734	101.02	ug/L		100
66)	trans-1,3-Dichloropropene	9.178	75	547563	123.09	ug/L		98
67)	Ethyl Methacrylate	9.416	69	596922	118.74	ug/L		92
68)	1,1,2-Trichloroethane	9.403	97	366543	105.35	ug/L		89
71)	Tetrachloroethene	9.550	164	285601	97.16	ug/L		98
72)	2-Hexanone	9.824	43	343432	112.81	ug/L		91
73)	1,3-Dichloropropane	9.611	76	689964	103.56	ug/L		97
74)	Dibromochloromethane	9.897	129	370376	117.91	ug/L		99
75)	N-Butyl Acetate	10.056	43	693180	116.51	ug/L		99
76)	1,2-Dibromoethane	9.995	107	378561	112.71	ug/L		99
77)	Chlorobenzene	10.641	112	1097160	98.92	ug/L		97
78)	1,1,1,2-Tetrachloroethane	10.769	131	355432	111.01	ug/L		97
79)	Ethylbenzene	10.818	106	573335	100.34	ug/L		91
80)	(m+p)Xylene	10.970	106	1426331	207.93	ug/L		95
81)	o-Xylene	11.415	106	729582	105.05	ug/L		99
82)	Styrene	11.433	104	1289711	111.41	ug/L		98
83)	Bromoform	11.604	173	230158	124.82	ug/L		99
84)	Isopropylbenzene	11.854	105	1823456	103.63	ug/L		98
85)	Cyclohexanone	11.903	55	1810820	2108.98	ug/L		93
86)	trans-1,4-Dichloro-2-B...	12.263	53	133960	117.52	ug/L		92
88)	1,1,2,2-Tetrachloroethane	12.195	83	580301	118.14	ug/L		98
89)	Bromobenzene	12.128	156	448565	108.03	ug/L		92
90)	1,2,3-Trichloropropane	12.214	110	160031	118.29	ug/L	#	83
91)	n-Propylbenzene	12.305	91	2238308	109.68	ug/L		97
92)	2-Chlorotoluene	12.360	91	1294327	113.55	ug/L		97
93)	4-Chlorotoluene	12.482	91	1520648	108.46	ug/L		97
94)	1,3,5-Trimethylbenzene	12.512	105	1489984	109.91	ug/L		99
95)	tert-Butylbenzene	12.848	119	1260305	108.92	ug/L		99
96)	1,2,4-Trimethylbenzene	12.897	105	1546204	109.25	ug/L		98
97)	sec-Butylbenzene	13.079	105	1932326	105.04	ug/L		97
98)	p-Isopropyltoluene	13.250	119	1506390	102.42	ug/L		98
99)	1,3-Dclbenz	13.153	146	779502	96.52	ug/L		98
100)	1,4-Dclbenz	13.250	146	818330	97.47	ug/L		98
101)	n-Butylbenzene	13.671	91	1534807	104.74	ug/L		98
102)	1,2-Dclbenz	13.628	146	785646	100.61	ug/L		98
103)	1,2-Dibromo-3-chloropr...	14.433	157	103005	127.45	ug/L		97

1st FN 08/04/16
2nd KR 08/04/16

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA14\Data\080316\
Data File : B7325.D
Acq On : 3 Aug 2016 1:21 pm
Operator : F.Naegler
Sample : 100 PPB STD Inst : MSVOA14
Misc :
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 03 14:17:04 2016
Quant Method : I:\ACQUDATA\MSVOA14\Methods\S080316.M
Quant Title : MS#14 - 8260 SOILS 10ml PURGE
QLast Update : Wed Aug 03 14:16:19 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
104) 1,2,4-Tcbenzene	15.274	180	563962	99.31 ug/L	99
105) Hexachlorobt	15.481	225	277530	95.53 ug/L	99
106) Naphthalen	15.506	128	1568485	111.83 ug/L	99
107) 1,2,3-Tclbenzene	15.756	180	563798	103.07 ug/L	96

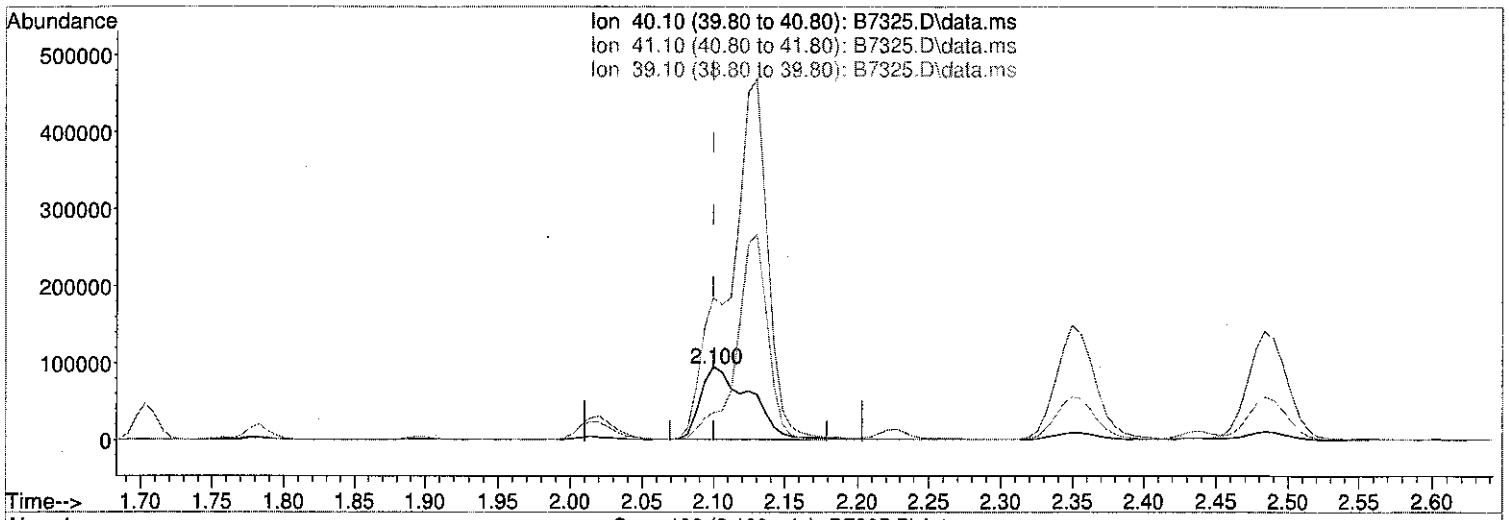
(#) = qualifier out of range (m) = manual integration (+) = signals summed

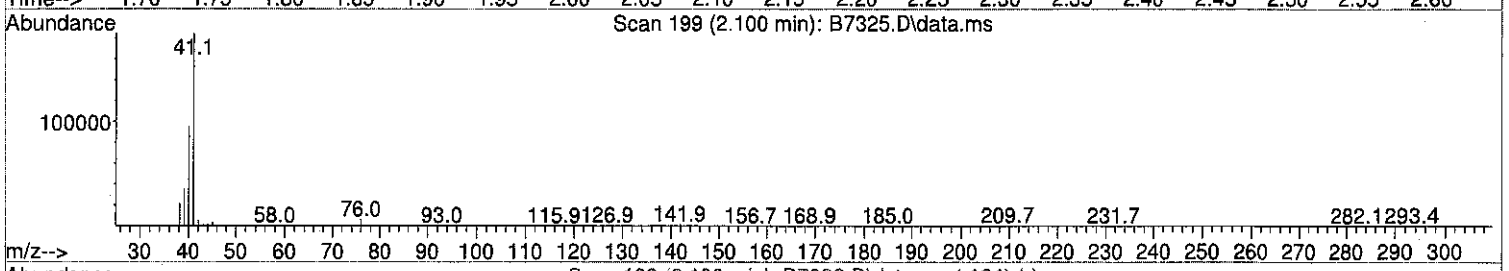
1st FN 08/04/16
2nd WR 08/04/16

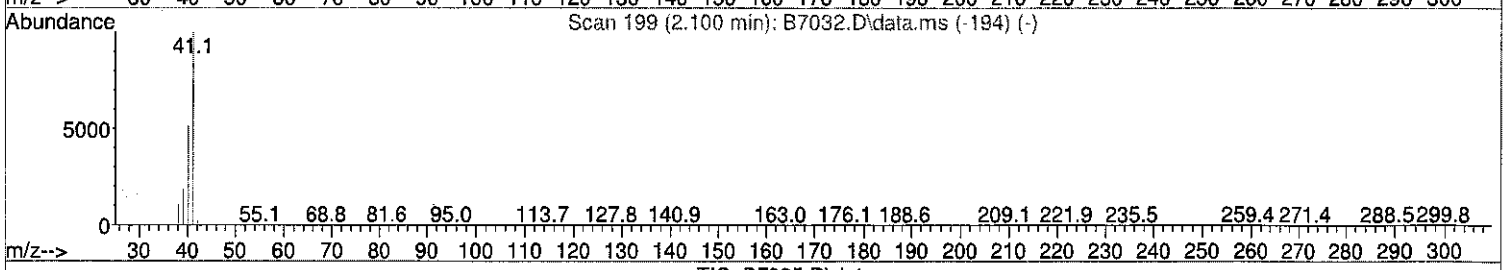
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\080316\
Data File : B7325.D
Acq On : 3 Aug 2016 1:21 pm
Operator : F.Naegler
Sample : 100 PPB STD Inst : MSVOA14
Misc :
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 03 14:16:28 2016
Quant Method : I:\ACQUDATA\MSVOA14\Methods\S080316.M
Quant Title : MS#14 - 8260 SOILS 10ml PURGE
QLast Update : Wed Aug 03 14:16:19 2016
Response via : Initial Calibration







TIC: B7325.D\data.ms

(19) Acetonitrile

2.100min (-0.000) 668.25 ug/L

response 225499

Ion	Exp%	Act%
40.10	100	100
41.10	534.60	193.89#
39.10	371.40	36.89#
0.00	0.00	0.00

Manual Integration:

Before

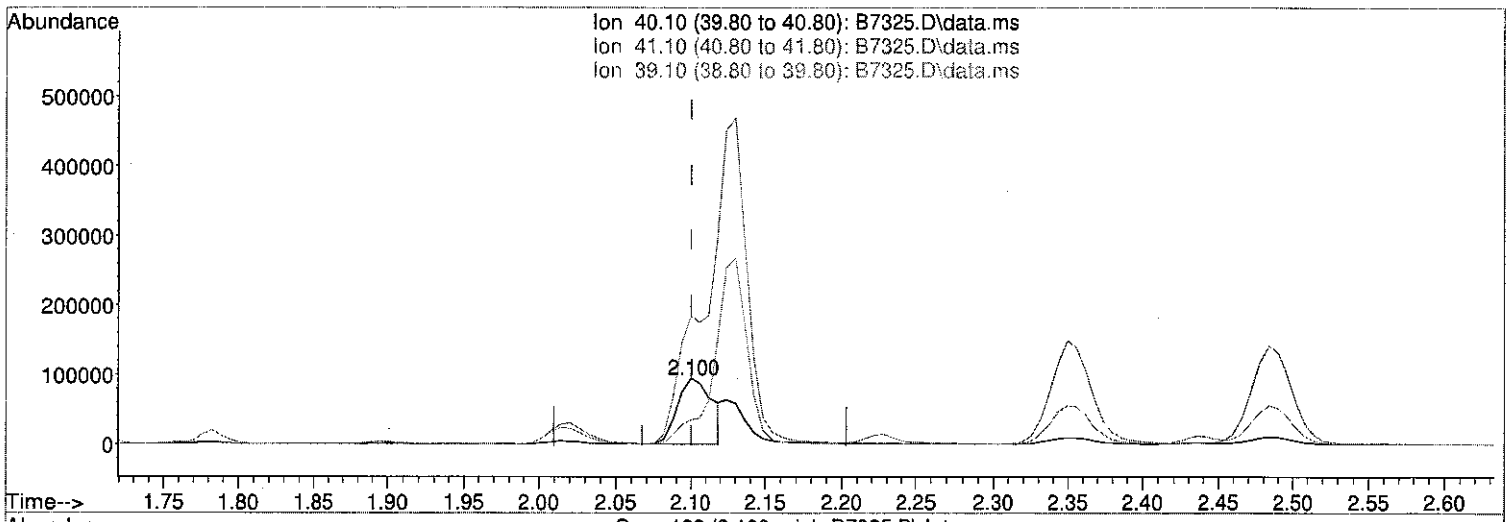
08/03/16

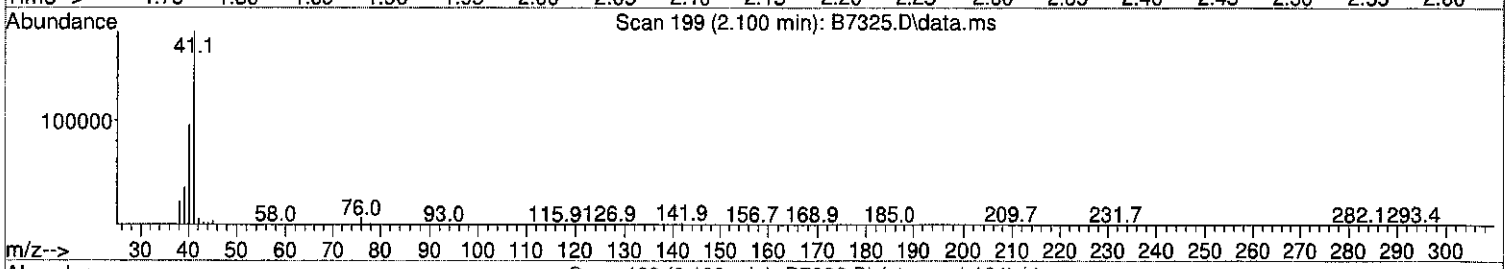
1st FN 08/04/16
2nd KR 08/04/16

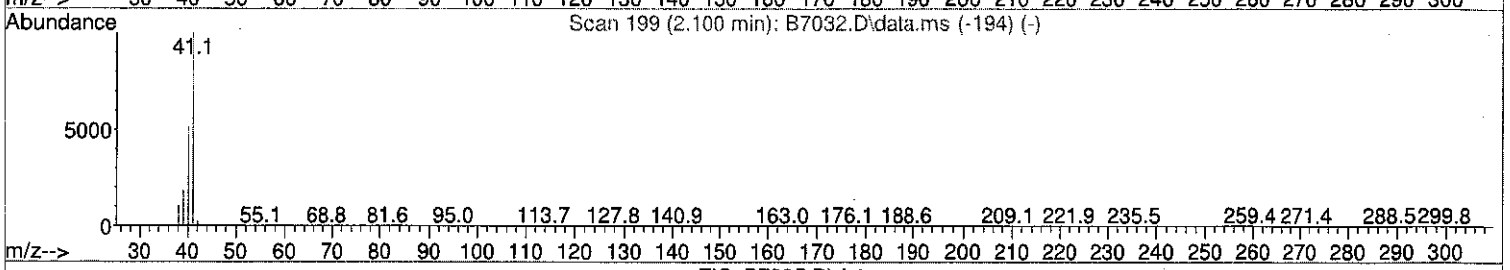
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\080316\
Data File : B7325.D
Acq On : 3 Aug 2016 1:21 pm
Operator : F.Naegler
Sample : 100 PPB STD Inst : MSVOA14
Misc :
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 03 14:16:28 2016
Quant Method : I:\ACQUDATA\MSVOA14\Methods\S080316.M
Quant Title : MS#14 - 8260 SOILS 10ml PURGE
QLast Update : Wed Aug 03 14:16:19 2016
Response via : Initial Calibration







TIC: B7325.D\data.ms

(19) Acetonitrile

2.100min (-0.000) 460.24 ug/L m

response 155305

Ion	Exp%	Act%
40.10	100	100
41.10	534.60	193.89#
39.10	371.40	36.89#
0.00	0.00	0.00

Manual Integration:

After

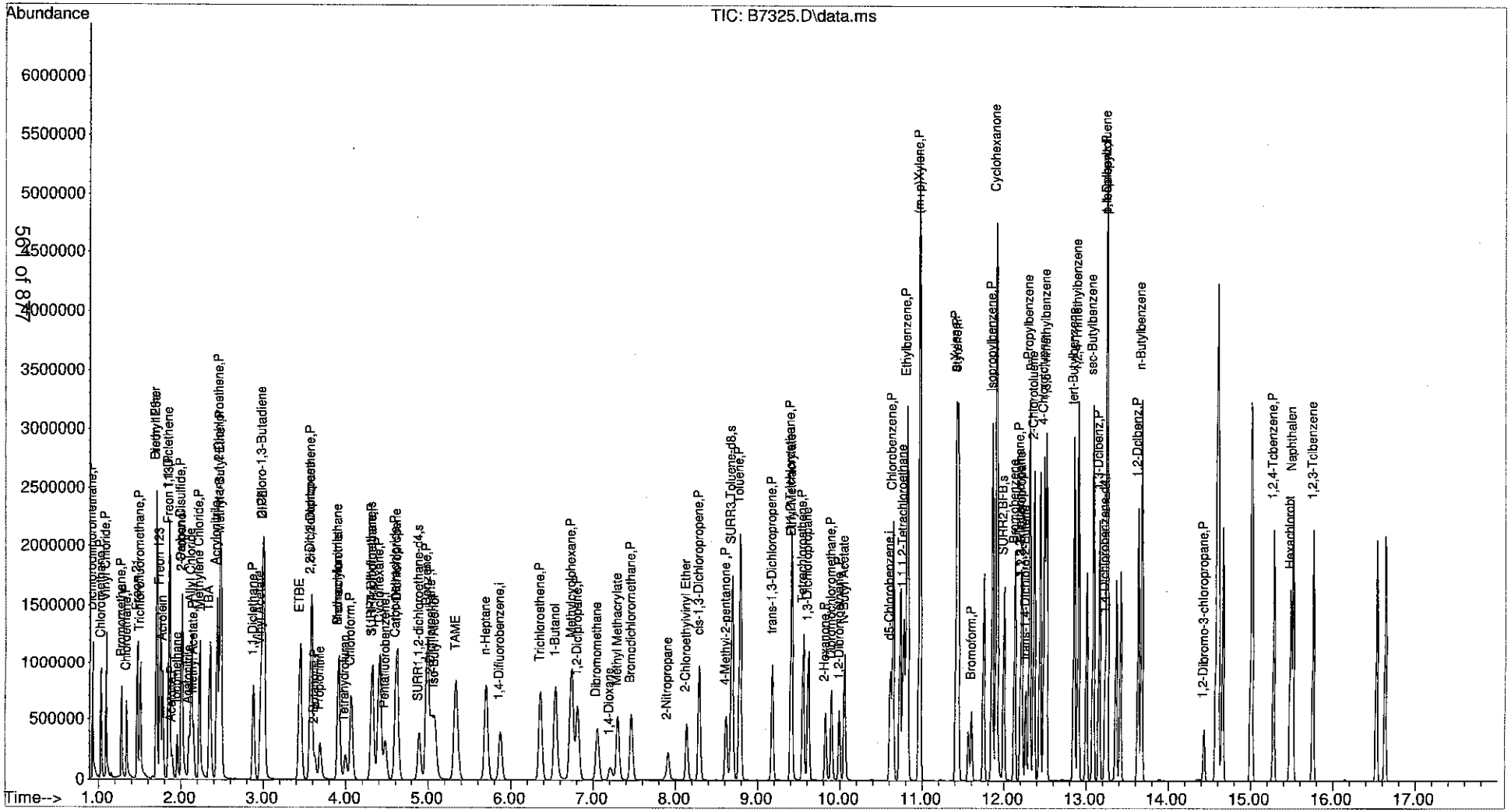
Poor integration.

08/03/16

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA14\Data\080316\
Data File : B7325.D
Acq On : 3 Aug 2016 1:21 pm
Operator : F.Naegler
Sample : 100 PPB STD Inst : MSVOA14
Misc :
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 03 14:17:04 2016
Quant Method : I:\ACQUDATA\MSVOA14\Methods\S080316.M
Quant Title : MS#14 - 8260 SOILS 10ml PURGE
QLast Update : Wed Aug 03 14:16:19 2016
Response via : Initial Calibration



1st FJ 08/04/16
2nd 08/04/16

1st FN 08/04/16
2nd KR 08/04/16

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA14\Data\080316\
Data File : B7326.D
Acq On : 3 Aug 2016 1:55 pm
Operator : F.Naegler
Sample : 150 PPB STD Inst : MSVOA14
Misc :
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 03 14:18:32 2016
Quant Method : I:\ACQUDATA\MSVOA14\Methods\S080316.M
Quant Title : MS#14 - 8260 SOILS 10ml PURGE
QLast Update : Wed Aug 03 14:18:19 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.478	168	323413	50.00	ug/L	0.00
42) 1,4-Difluorobenzene	5.874	114	528481	50.00	ug/L	0.00
70) d5-Chlorobenzene	10.611	117	436263	50.00	ug/L	0.00
87) 1,4-Dichlorobenzene-d4	13.226	152	218068	50.00	ug/L	0.00
System Monitoring Compounds						
44) SURR4,Dibrflmethane	4.319	113	662268	212.45	ug/L	0.00
Spiked Amount 50.000	Range 63 - 138		Recovery = 424.90%#			
47) SURR1,1,2-dichloroetha...	4.886	65	706606	198.16	ug/L	0.00
Spiked Amount 50.000	Range 67 - 128		Recovery = 396.32%#			
64) SURR3,Toluene-d8	8.684	98	2449926	187.11	ug/L	0.00
Spiked Amount 50.000	Range 66 - 138		Recovery = 374.22%#			
69) SURR2,BFB	11.995	95	880092	181.96	ug/L	0.00
Spiked Amount 50.000	Range 51 - 136		Recovery = 363.92%#			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	0.930	85	846658	176.66	ug/L	99
3) Chloromethane	1.027	50	925220	153.64	ug/L	98
4) Vinyl Chloride	1.094	62	931078	165.32	ug/L	98
5) Bromomethane	1.277	94	292687	80.46	ug/L	100
6) Chloroethane	1.338	64	526482	174.53	ug/L	99
7) Freon 21	1.466	67	1247246	165.56	ug/L	98
8) Trichlorofluoromethane	1.503	101	819380	165.75	ug/L	100
9) Diethyl Ether	1.704	59	608403	152.94	ug/L	94
10) Freon 123a	1.704	67	830904	157.79	ug/L	85
11) Freon 123	1.747	83	960268	158.80	ug/L	96
12) Acrolein	1.783	56	715077	728.40	ug/L	100
13) 1,1-Diclethene	1.850	96	599572	163.49	ug/L	99
14) Freon 113	1.862	101	623137	167.51	ug/L	94
15) Acetone	1.893	43	236767	81.88	ug/L	94
16) 2-Propanol	2.021	45	1054892	2678.23	ug/L	93
17) Iodomethane	1.960	142	498039	397.82	ug/L	96
18) Carbon Disulfide	2.009	76	1825083	176.02	ug/L	99
19) Acetonitrile	2.100	40	233165	697.37	ug/L #	1
20) Allyl Chloride	2.124	76	370864	159.71	ug/L #	81
21) Methyl Acetate	2.155	43	535409	146.16	ug/L	99
22) Methylene Chloride	2.222	84	687985	148.56	ug/L	95
23) TBA	2.350	59	1807686	3046.97	ug/L	93
24) Acrylonitrile	2.435	53	1478954	734.83	ug/L	98
25) Methyl-t-Butyl Ether	2.484	73	1911767	160.26	ug/L	96
26) trans-1,2-Dichloroethene	2.466	96	674695	156.35	ug/L	93
27) 1,1-Diclethane	2.880	63	1161314	159.71	ug/L	98
28) Vinyl Acetate	2.966	86	158870	178.31	ug/L #	77
29) DIPE	3.002	45	2274521	167.62	ug/L	90
30) 2-Chloro-1,3-Butadiene	2.984	53	1022478	167.56	ug/L	99
31) ETBE	3.447	59	1995015	170.20	ug/L	96
32) 2,2-Dichloropropane	3.575	77	810468	190.16	ug/L	97
33) cis-1,2-Dichloroethene	3.582	96	741083	159.19	ug/L	97
34) 2-Butanone	3.624	43	363477	135.21	ug/L	99
35) Propionitrile	3.691	54	571024	736.28	ug/L	99
36) Bromochloromethane	3.911	130	385701	145.37	ug/L #	88
37) Methacrylonitrile	3.911	67	320885	158.50	ug/L	97
38) Tetrahydrofuran	3.990	42	231554	151.37	ug/L	86
39) Chloroform	4.063	83	1126964	159.18	ug/L	98
40) 1,1,1-Trichloroethane	4.319	97	835685	172.83	ug/L	99

1st FN 08/04/16
2nd KR 08/04/16

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA14\Data\080316\
Data File : B7326.D
Acq On : 3 Aug 2016 1:55 pm
Operator : F.Naegler
Sample : 150 PPB STD Inst : MSVOA14
Misc :
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 03 14:18:32 2016
Quant Method : I:\ACQUDATA\MSVOA14\Methods\S080316.M
Quant Title : MS#14 - 8260 SOILS 10ml PURGE
QLast Update : Wed Aug 03 14:18:19 2016
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41)	TAME	5.337	73	1768566	167.43	ug/L		96
43)	Cyclohexane	4.411	41	590166	157.70	ug/L		84
45)	Carbontetrachloride	4.606	121	209991	183.16	ug/L		99
46)	1,1-Dichloropropene	4.618	75	909080	163.99	ug/L		97
48)	Benzene	4.984	78	2517287	148.99	ug/L		98
49)	1,2-Dichloroethane	5.032	62	724147	146.29	ug/L		94
50)	Iso-Butyl Alcohol	5.081	43	755705	3245.66	ug/L		93
51)	n-Heptane	5.691	43	899287	158.60	ug/L		98
52)	1-Butanol	6.550	56	1299972	8696.17	ug/L		100
53)	Trichloroethene	6.355	130	621940	160.12	ug/L		96
54)	Methylcyclohexane	6.739	55	961586	164.14	ug/L		92
55)	1,2-Diclpropane	6.807	63	709824	165.19	ug/L		98
56)	Dibromomethane	7.050	93	385659	153.88	ug/L		97
57)	1,4-Dioxane	7.209	88	203455	2838.02	ug/L		84
58)	Methyl Methacrylate	7.300	69	511228	167.76	ug/L		90
59)	Bromodichloromethane	7.465	83	801839	169.39	ug/L		99
60)	2-Nitropropane	7.910	41	248326	263.79	ug/L		93
61)	2-Chloroethylvinyl Ether	8.136	63	356022	153.46	ug/L		99
62)	cis-1,3-Dichloropropene	8.288	75	1055309	179.44	ug/L		98
63)	4-Methyl-2-pentanone	8.617	43	670962	167.32	ug/L		97
65)	Toluene	8.782	91	2483818	144.99	ug/L		99
66)	trans-1,3-Dichloropropene	9.178	75	781512	166.34	ug/L		99
67)	Ethyl Methacrylate	9.410	69	839421	159.21	ug/L		94
68)	1,1,2-Trichloroethane	9.404	97	512163	143.47	ug/L		92
71)	Tetrachloroethene	9.550	164	455288	166.32	ug/L		98
72)	2-Hexanone	9.824	43	411661	141.49	ug/L		89
73)	1,3-Dichloropropane	9.611	76	920038	146.72	ug/L		96
74)	Dibromochloromethane	9.897	129	538181	177.80	ug/L		99
75)	N-Butyl Acetate	10.056	43	901381	157.58	ug/L		99
76)	1,2-Dibromoethane	9.989	107	529064	164.85	ug/L		99
77)	Chlorobenzene	10.641	112	1582980	152.81	ug/L		100
78)	1,1,1,2-Tetrachloroethane	10.769	131	521028	170.79	ug/L		98
79)	Ethylbenzene	10.818	106	859186	160.61	ug/L		96
80)	(m+p)Xylene	10.970	106	2118167	327.85	ug/L		96
81)	o-Xylene	11.415	106	1031755	157.44	ug/L		98
82)	Styrene	11.434	104	1788840	162.06	ug/L		99
83)	Bromoform	11.604	173	336910	187.52	ug/L		99
84)	Isopropylbenzene	11.854	105	2656364	160.38	ug/L		99
85)	Cyclohexanone	11.903	55	2362550	2914.25	ug/L		92
86)	trans-1,4-Dichloro-2-B...	12.263	53	169911	154.79	ug/L		96
88)	1,1,2,2-Tetrachloroethane	12.196	83	748744	145.35	ug/L		100
89)	Bromobenzene	12.123	156	652688	152.38	ug/L		90
90)	1,2,3-Trichloropropane	12.214	110	210747	148.51	ug/L	#	89
91)	n-Propylbenzene	12.305	91	3236322	153.32	ug/L		98
92)	2-Chlorotoluene	12.360	91	1814972	152.97	ug/L		99
93)	4-Chlorotoluene	12.482	91	2155310	148.92	ug/L		98
94)	1,3,5-Trimethylbenzene	12.513	105	2180297	155.42	ug/L		98
95)	tert-Butylbenzene	12.848	119	1866151	156.12	ug/L		99
96)	1,2,4-Trimethylbenzene	12.897	105	2260600	154.53	ug/L		98
97)	sec-Butylbenzene	13.080	105	2959308	156.71	ug/L		98
98)	p-Isopropyltoluene	13.250	119	2467337	164.13	ug/L		98
99)	1,3-Dclbenz	13.153	146	1272896	155.74	ug/L		99
100)	1,4-Dclbenz	13.250	146	1302030	152.99	ug/L		98
101)	n-Butylbenzene	13.671	91	2528555	168.18	ug/L		99
102)	1,2-Dclbenz	13.628	146	1236366	155.38	ug/L		99
103)	1,2-Dibromo-3-chloropr...	14.433	157	165302	192.14	ug/L		97

1st FN 08/04/16
2nd KR 08/04/16

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA14\Data\080316\
Data File : B7326.D
Acq On : 3 Aug 2016 1:55 pm
Operator : F.Naegler
Sample : 150 PPB STD Inst : MSVOA14
Misc :
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 03 14:18:32 2016
Quant Method : I:\ACQUDATA\MSVOA14\Methods\S080316.M
Quant Title : MS#14 - 8260 SOILS 10ml PURGE
QLast Update : Wed Aug 03 14:18:19 2016
Response via : Initial Calibration

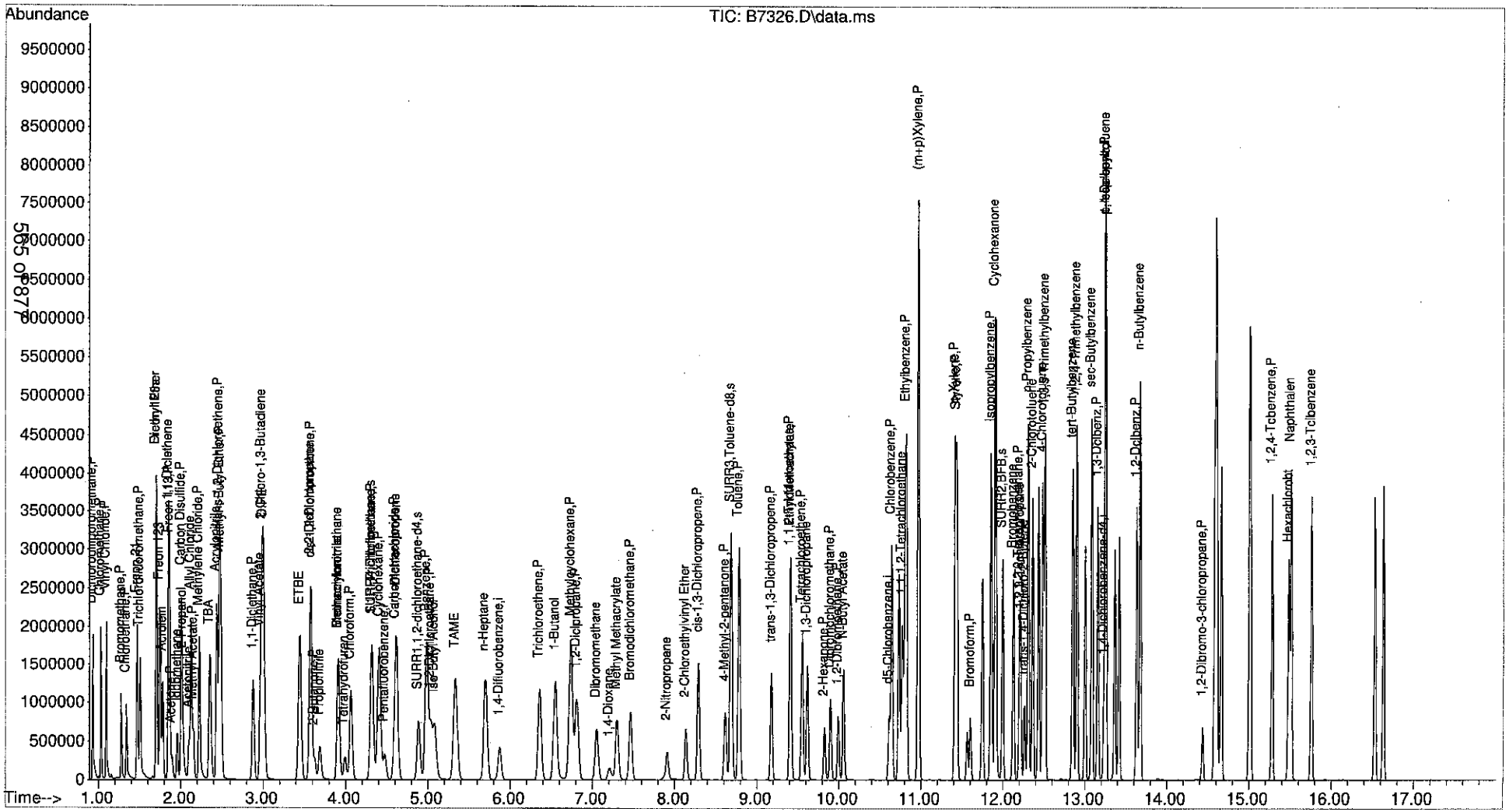
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
104) 1,2,4-Tcbenzene	15.274	180	965322	167.18 ug/L	98
105) Hexachlorobt	15.482	225	484956	165.21 ug/L	96
106) Naphthalen	15.506	128	2654728	182.35 ug/L	99
107) 1,2,3-Tclbenzene	15.756	180	955561	170.74 ug/L	97

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

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA14\Data\080316\
Data File : B7326.D
Acq On : 3 Aug 2016 1:55 pm
Operator : F.Naegler
Sample : 150 PPB STD Inst : MSVOA14
Misc :
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 03 14:18:32 2016
Quant Method : I:\ACQUDATA\MSVOA14\Methods\S080316.M
Quant Title : MS#14 - 8260 SOILS 10ml PURGE
QLast Update : Wed Aug 03 14:18:19 2016
Response via : Initial Calibration



1st FJ 08/04/16
2nd 08/04/16

1st FN 08/04/16
2nd KR 08/04/16

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA14\Data\080316\
Data File : B7327.D
Acq On : 3 Aug 2016 2:19 pm
Operator : F.Naegler
Sample : 200 PPB STD Inst : MSVOA14
Misc :
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Aug 03 14:37:43 2016
Quant Method : I:\ACQUDATA\MSVOA14\Methods\S080316.M
Quant Title : MS#14 - 8260 SOILS 10ml PURGE
QLast Update : Wed Aug 03 14:20:19 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.484	168	323425	50.00	ug/L	0.00
42) 1,4-Difluorobenzene	5.874	114	524393	50.00	ug/L	0.00
70) d5-Chlorobenzene	10.610	117	484421	50.00	ug/L	0.00
87) 1,4-Dichlorobenzene-d4	13.232	152	225600	50.00	ug/L	0.00
System Monitoring Compounds						
44) SURR4,Dibrflmethane	4.319	113	170208	54.35	ug/L	0.00
Spiked Amount 50.000	Range 63 - 138		Recovery = 108.70%			
47) SURR1,1,2-dichloroetha...	4.892	65	182928	51.80	ug/L	0.00
Spiked Amount 50.000	Range 67 - 128		Recovery = 103.60%			
64) SURR3,Toluene-d8	8.684	98	688050	53.65	ug/L	0.00
Spiked Amount 50.000	Range 66 - 138		Recovery = 107.30%			
69) SURR2,BFB	11.994	95	253242	53.74	ug/L	0.00
Spiked Amount 50.000	Range 51 - 136		Recovery = 107.48%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	0.929	85	1020797	207.71	ug/L	100
3) Chloromethane	1.033	50	1184298	195.97	ug/L	99
4) Vinyl Chloride	1.094	62	1139767	199.45	ug/L	98
5) Bromomethane	1.277	94	606242	178.47	ug/L	99
6) Chloroethane	1.344	64	661032	214.12	ug/L	100
7) Freon 21	1.472	67	1567391	205.01	ug/L	99
8) Trichlorofluoromethane	1.509	101	979215	195.15	ug/L	99
9) Diethyl Ether	1.704	59	816819	204.75	ug/L	93
10) Freon 123a	1.704	67	1057257	199.29	ug/L	86
11) Freon 123	1.752	83	1236820	202.83	ug/L	98
12) Acrolein	1.783	56	983617	1006.05	ug/L	99
13) 1,1-Diclethene	1.856	96	742165	199.79	ug/L	95
14) Freon 113	1.862	101	750890	198.53	ug/L	93
15) Acetone	1.893	43	340489	125.91	ug/L	94
16) 2-Propanol	2.015	45	1518002	3913.83	ug/L	91
17) Iodomethane	1.960	142	640523	413.92	ug/L	94
18) Carbon Disulfide	2.008	76	2180363	205.19	ug/L	99
19) Acetonitrile	2.094	40	319975	968.30	ug/L #	1
20) Allyl Chloride	2.130	76	449084	191.62	ug/L #	75
21) Methyl Acetate	2.155	43	736087	201.67	ug/L	98
22) Methylene Chloride	2.228	84	910972	196.97	ug/L	99
23) TBA	2.350	59	2576780	4333.47	ug/L	95
24) Acrylonitrile	2.435	53	2019591	1006.31	ug/L	98
25) Methyl-t-Butyl Ether	2.484	73	2613462	216.95	ug/L	96
26) trans-1,2-Dichloroethene	2.472	96	854162	196.74	ug/L	97
27) 1,1-Diclethane	2.880	63	1495179	203.73	ug/L	97
28) Vinyl Acetate	2.966	86	208660	228.03	ug/L #	74
29) DIPE	3.002	45	3005984	217.86	ug/L	89
30) 2-Chloro-1,3-Butadiene	2.990	53	1197357	192.99	ug/L	96
31) ETBE	3.447	59	2712307	227.02	ug/L	95
32) 2,2-Dichloropropane	3.575	77	1025208	231.67	ug/L	97
33) cis-1,2-Dichloroethene	3.581	96	963756	205.21	ug/L	96
34) 2-Butanone	3.624	43	497382	187.66	ug/L	99
35) Propionitrile	3.685	54	765056	989.01	ug/L	99
36) Bromochloromethane	3.910	130	504692	191.05	ug/L #	86
37) Methacrylonitrile	3.917	67	428663	210.03	ug/L	93
38) Tetrahydrofuran	3.996	42	300212	195.99	ug/L	94
39) Chloroform	4.069	83	1387517	194.27	ug/L	98
40) 1,1,1-Trichloroethane	4.325	97	1052651	213.07	ug/L	98

1st FN 08/04/16
2nd NR 08/04/16

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA14\Data\080316\
Data File : B7327.D
Acq On : 3 Aug 2016 2:19 pm
Operator : F.Naegler
Sample : 200 PPB STD Inst : MSVOA14
Misc :
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Aug 03 14:37:43 2016
Quant Method : I:\ACQUDATA\MSVOA14\Methods\S080316.M
Quant Title : MS#14 - 8260 SOILS 10ml PURGE
QLast Update : Wed Aug 03 14:20:19 2016
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
41)	TAME	5.337	73	2422108	225.55 ug/L	97
43)	Cyclohexane	4.410	41	759908	203.15 ug/L	83
45)	Carbontetrachloride	4.612	121	259332	220.98 ug/L	97
46)	1,1-Dichloropropene	4.624	75	1122792	201.44 ug/L	98
48)	Benzene	4.990	78	3297566	196.88 ug/L	98
49)	1,2-Dichloroethane	5.038	62	990197	202.31 ug/L	94
50)	Iso-Butyl Alcohol	5.081	43	1066947	4564.73 ug/L	94
51)	n-Heptane	5.709	43	1175142	207.16 ug/L	99
52)	1-Butanol	6.550	56	1892825	12476.50 ug/L	100
53)	Trichloroethene	6.361	130	780847	200.66 ug/L	92
54)	Methylcyclohexane	6.739	55	1221421	207.32 ug/L	95
55)	1,2-Diclpropane	6.812	63	930510	215.12 ug/L	97
56)	Dibromomethane	7.050	93	520323	208.46 ug/L	96
57)	1,4-Dioxane	7.196	88	275528	3903.44 ug/L	88
58)	Methyl Methacrylate	7.300	69	722749	235.04 ug/L	94
59)	Bromodichloromethane	7.459	83	1046342	218.73 ug/L	98
60)	2-Nitropropane	7.910	41	343422	374.11 ug/L	92
61)	2-Chloroethylvinyl Ether	8.135	63	531312	230.04 ug/L	95
62)	cis-1,3-Dichloropropene	8.288	75	1381397	230.26 ug/L	98
63)	4-Methyl-2-pentanone	8.617	43	897983	222.01 ug/L	98
65)	Toluene	8.781	91	3569946	211.03 ug/L	99
66)	trans-1,3-Dichloropropene	9.178	75	1203650	254.23 ug/L	99
67)	Ethyl Methacrylate	9.416	69	1378676	261.23 ug/L	96
68)	1,1,2-Trichloroethane	9.409	97	792181	225.03 ug/L	96
71)	Tetrachloroethene	9.550	164	606873	196.60 ug/L	99
72)	2-Hexanone	9.824	43	738045	230.32 ug/L	94
73)	1,3-Dichloropropane	9.617	76	1463367	210.82 ug/L	99
74)	Dibromochloromethane	9.897	129	820783	237.91 ug/L	98
75)	N-Butyl Acetate	10.056	43	1618563	253.00 ug/L	99
76)	1,2-Dibromoethane	9.995	107	812280	224.76 ug/L	97
77)	Chlorobenzene	10.641	112	2301005	199.51 ug/L	95
78)	1,1,1,2-Tetrachloroethane	10.769	131	764881	221.41 ug/L	98
79)	Ethylbenzene	10.824	106	1253548	208.93 ug/L	95
80)	(m+p)Xylene	10.970	106	3078076	423.44 ug/L	94
81)	o-Xylene	11.415	106	1500688	204.78 ug/L	100
82)	Styrene	11.440	104	2666497	215.09 ug/L	99
83)	Bromoform	11.604	173	483679	234.09 ug/L	99
84)	Isopropylbenzene	11.854	105	3725529	200.58 ug/L	98
85)	Cyclohexanone	11.909	55	3555132	3965.56 ug/L	90
86)	trans-1,4-Dichloro-2-B...	12.263	53	268445	219.25 ug/L	96
88)	1,1,2,2-Tetrachloroethane	12.202	83	1135026	213.92 ug/L	98
89)	Bromobenzene	12.128	156	906736	204.17 ug/L	95
90)	1,2,3-Trichloropropane	12.214	110	318411	217.20 ug/L #	82
91)	n-Propylbenzene	12.311	91	4287481	195.72 ug/L	98
92)	2-Chlorotoluene	12.360	91	2603714	211.52 ug/L	97
93)	4-Chlorotoluene	12.482	91	2987378	199.72 ug/L	97
94)	1,3,5-Trimethylbenzene	12.512	105	3026379	207.46 ug/L	99
95)	tert-Butylbenzene	12.848	119	2590033	208.23 ug/L	98
96)	1,2,4-Trimethylbenzene	12.897	105	3208015	211.06 ug/L	100
97)	sec-Butylbenzene	13.079	105	4161733	211.68 ug/L	97
98)	p-Isopropyltoluene	13.250	119	3307767	209.87 ug/L	97
99)	1,3-Dclbenz	13.153	146	1719813	202.29 ug/L	99
100)	1,4-Dclbenz	13.256	146	1735805	196.59 ug/L	97
101)	n-Butylbenzene	13.671	91	3144033	198.70 ug/L	99
102)	1,2-Dclbenz	13.628	146	1702457	205.76 ug/L	98
103)	1,2-Dibromo-3-chloropr...	14.433	157	232419	251.06 ug/L	97

1st FN 08/04/16
2nd WR 08/04/16

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA14\Data\080316\
Data File : B7327.D
Acq On : 3 Aug 2016 2:19 pm
Operator : F.Naegler
Sample : 200 PPB STD Inst : MSVOA14
Misc :
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Aug 03 14:37:43 2016
Quant Method : I:\ACQUDATA\MSVOA14\Methods\S080316.M
Quant Title : MS#14 - 8260 SOILS 10ml PURGE
QLast Update : Wed Aug 03 14:20:19 2016
Response via : Initial Calibration

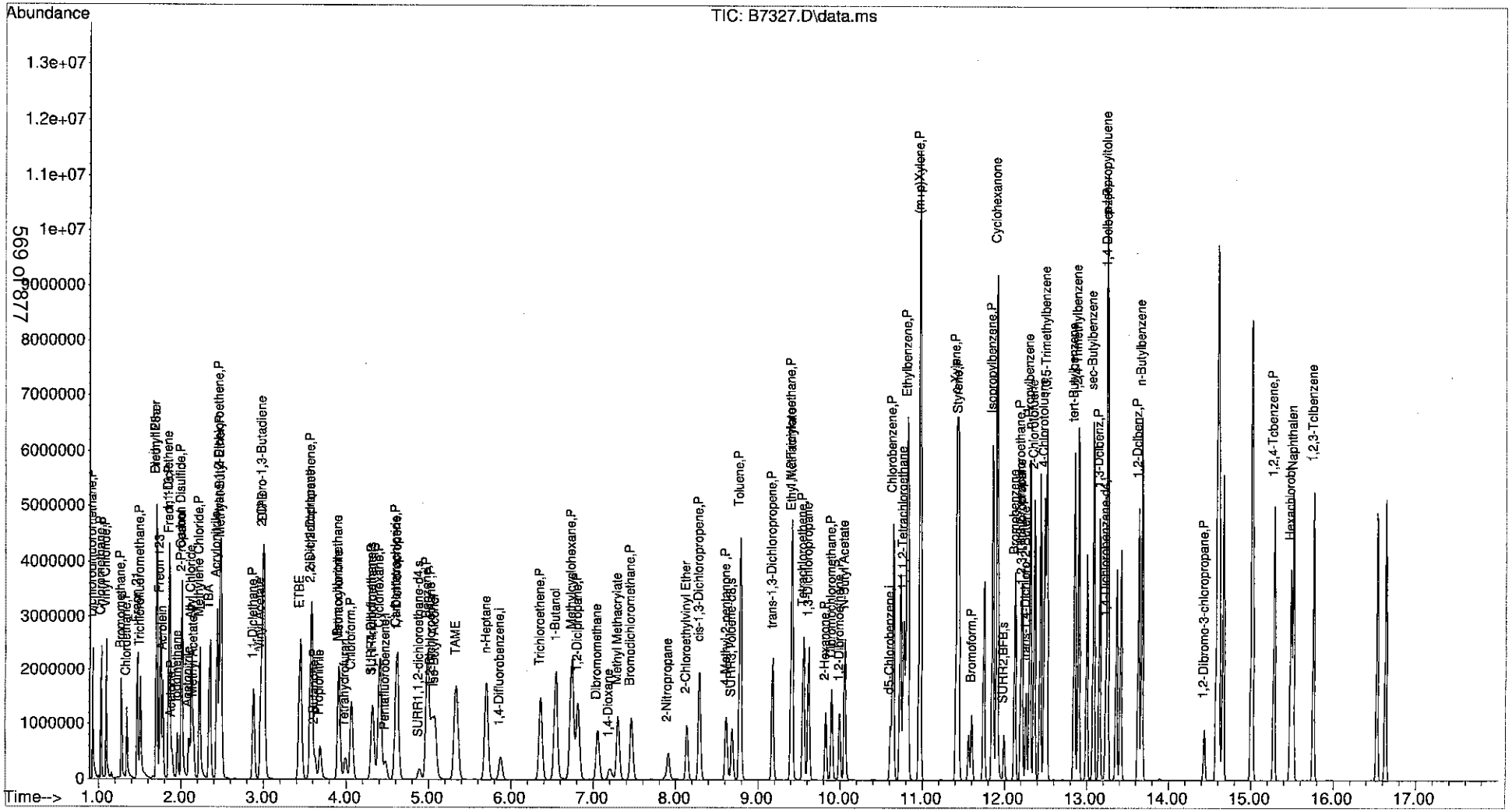
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
104) 1,2,4-Tcbenzene	15.274	180	1323774	218.03 ug/L	99
105) Hexachlorobt	15.481	225	656903	213.23 ug/L	98
106) Naphthalen	15.512	128	3605063	232.21 ug/L	98
107) 1,2,3-Tclbenzene	15.756	180	1317164	223.09 ug/L	97

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

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA14\Data\080316\
Data File : B7327.D
Acq On : 3 Aug 2016 2:19 pm
Operator : F.Naegler
Sample : 200 PPB STD Inst : MSVOA14
Misc :
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Aug 03 14:37:43 2016
Quant Method : I:\ACQUDATA\MSVOA14\Methods\S080316.M
Quant Title : MS#14 - 8260 SOILS 10ml PURGE
QLast Update : Wed Aug 03 14:20:19 2016
Response via : Initial Calibration



569 of 877

1st FJ 08/04/16
2nd MR 08/04/16

1st FN 08/04/16
2nd WR 08/04/16

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA14\Data\080316\
Data File : B7330.D
Acq On : 3 Aug 2016 3:50 pm
Operator : F.Naegler
Sample : 50 PPB ICV Inst : MSVOA14
Misc :
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Aug 03 16:51:06 2016
Quant Method : I:\ACQUDATA\MSVOA14\Methods\S080316.M
Quant Title : MS#14 - 8260 SOILS 10ml PURGE
QLast Update : Wed Aug 03 16:40:37 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.478	168	301179	50.00	ug/L	0.00
42) 1,4-Difluorobenzene	5.874	114	523566	50.00	ug/L	0.00
70) d5-Chlorobenzene	10.611	117	468154	50.00	ug/L	0.00
87) 1,4-Dichlorobenzene-d4	13.226	152	218055	50.00	ug/L	0.00
System Monitoring Compounds						
44) SURR4,Dibrflmethane	4.319	113	161541	51.66	ug/L	0.00
Spiked Amount 50.000	Range 63 - 138		Recovery = 103.32%			
47) SURR1,1,2-dichloroetha...	4.886	65	174636	49.53	ug/L	0.00
Spiked Amount 50.000	Range 67 - 128		Recovery = 99.06%			
64) SURR3,Toluene-d8	8.684	98	664753	51.92	ug/L	0.00
Spiked Amount 50.000	Range 66 - 138		Recovery = 103.84%			
69) SURR2,BFB	11.995	95	226555	48.15	ug/L	0.00
Spiked Amount 50.000	Range 51 - 136		Recovery = 96.30%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	0.930	85	296241	64.42	ug/L	99
3) Chloromethane	1.033	50	308702	54.99	ug/L	98
4) Vinyl Chloride	1.094	62	317619	59.71	ug/L	99
5) Bromomethane	1.289	94	170665	59.88	ug/L	100
6) Chloroethane	1.350	64	152671	52.64	ug/L	98
7) Freon 21	1.472	67	386053	54.05	ug/L	100
8) Trichlorofluoromethane	1.509	101	263230	56.51	ug/L	99
9) Diethyl Ether	1.704	59	200409	53.79	ug/L	93
10) Freon 123a	1.704	67	278701	56.44	ug/L	83
11) Freon 123	1.753	83	318985	56.08	ug/L	98
12) Acrolein	1.783	56	89121	97.81	ug/L	96
13) 1,1-Diclethene	1.856	96	195273	56.46	ug/L	94
14) Freon 113	1.862	101	192598	54.73	ug/L	90
15) Acetone	1.905	43	84626	51.42	ug/L	93
16) 2-Propanol	2.057	45	360723	1001.44	ug/L	97
17) Iodomethane	1.960	142	126508	62.73	ug/L	97
18) Carbon Disulfide	2.009	76	602973	60.74	ug/L	99
19) Acetonitrile	2.131	40	74399m	235.23	ug/L	
20) Allyl Chloride	2.131	76	112607	51.87	ug/L #	83
21) Methyl Acetate	2.155	43	170112	50.00	ug/L	95
22) Methylene Chloride	2.228	84	232357	54.05	ug/L	97
23) TBA	2.374	59	597382	1067.72	ug/L	88
24) Acrylonitrile	2.442	53	463994	248.08	ug/L	95
25) Methyl-t-Butyl Ether	2.484	73	619776	54.67	ug/L	96
26) trans-1,2-Dichloroethene	2.472	96	218503	54.16	ug/L	96
27) 1,1-Diclethane	2.880	63	381886	55.75	ug/L	97
28) Vinyl Acetate	2.966	86	48450	55.88	ug/L #	71
29) DIPE	3.002	45	666377	51.29	ug/L	91
30) 2-Chloro-1,3-Butadiene	2.984	53	321940	55.97	ug/L	100
31) ETBE	3.447	59	534008	47.20	ug/L	98
32) 2,2-Dichloropropane	3.575	77	237283	56.46	ug/L	97
33) cis-1,2-Dichloroethene	3.582	96	239837	54.66	ug/L	97
34) 2-Butanone	3.636	43	111389	45.48	ug/L	96
35) Propionitrile	3.703	54	178888	248.68	ug/L	100
36) Bromochloromethane	3.911	130	128327	52.46	ug/L #	84
37) Methacrylonitrile	3.917	67	100061	52.32	ug/L	93
38) Tetrahydrofuran	4.002	42	67858	47.69	ug/L	91
39) Chloroform	4.069	83	353579	53.35	ug/L	99
40) 1,1,1-Trichloroethane	4.319	97	263294	56.77	ug/L	98

1st FN 08/04/16
2nd WR 08/04/16

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA14\Data\080316\
Data File : B7330.D
Acq On : 3 Aug 2016 3:50 pm
Operator : F.Naegler
Sample : 50 PPB ICV Inst : MSVOA14
Misc :
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Aug 03 16:51:06 2016
Quant Method : I:\ACQUDATA\MSVOA14\Methods\S080316.M
Quant Title : MS#14 - 8260 SOILS 10ml PURGE
QLast Update : Wed Aug 03 16:40:37 2016
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41)	TAME	5.337	73	524053	51.58	ug/L		97
43)	Cyclohexane	4.411	41	153870	41.12	ug/L		82
45)	Carbontetrachloride	4.612	121	60842	51.26	ug/L		98
46)	1,1-Dichloropropene	4.618	75	262921	47.20	ug/L		99
48)	Benzene	4.984	78	857876	51.40	ug/L		99
49)	1,2-Dichloroethane	5.039	62	244460	49.95	ug/L		95
50)	Iso-Butyl Alcohol	5.106	43	242447	1020.89	ug/L		94
51)	n-Heptane	5.703	43	315802	55.51	ug/L		98
52)	1-Butanol	6.569	56	426738	2732.68	ug/L		98
53)	Trichloroethene	6.361	130	211050	54.30	ug/L		95
54)	Methylcyclohexane	6.733	55	301845	51.08	ug/L		92
55)	1,2-Diclpropane	6.813	63	226873	52.04	ug/L		98
56)	Dibromomethane	7.050	93	129061	51.52	ug/L		94
57)	1,4-Dioxane	7.258	88	73750	1049.64	ug/L		90
58)	Methyl Methacrylate	7.300	69	165959	52.90	ug/L		92
59)	Bromodichloromethane	7.465	83	253110	52.38	ug/L		99
60)	2-Nitropropane	7.910	41	63665	78.26	ug/L		95
61)	2-Chloroethylvinyl Ether	8.136	63	133398	56.78	ug/L		96
62)	cis-1,3-Dichloropropene	8.288	75	316397	51.84	ug/L		99
63)	4-Methyl-2-pentanone	8.617	43	216652	52.92	ug/L		99
65)	Toluene	8.782	91	906873	53.32	ug/L		98
66)	trans-1,3-Dichloropropene	9.178	75	266247	54.48	ug/L		98
67)	Ethyl Methacrylate	9.410	69	268346	49.05	ug/L		94
68)	1,1,2-Trichloroethane	9.404	97	173638	48.64	ug/L		92
71)	Tetrachloroethene	9.550	164	157427	52.88	ug/L		97
72)	2-Hexanone	9.824	43	161159	51.07	ug/L		95
73)	1,3-Dichloropropane	9.611	76	323396	47.89	ug/L		98
74)	Dibromochloromethane	9.897	129	184506	54.06	ug/L		97
75)	N-Butyl Acetate	10.056	43	325922	51.03	ug/L		99
76)	1,2-Dibromoethane	9.995	107	181795	51.26	ug/L		94
77)	Chlorobenzene	10.641	112	574645	51.57	ug/L		95
78)	1,1,1,2-Tetrachloroethane	10.769	131	178550	52.77	ug/L		98
79)	Ethylbenzene	10.824	106	303424	52.04	ug/L		98
80)	(m+p)Xylene	10.970	106	774661	109.47	ug/L		95
81)	o-Xylene	11.415	106	345467	48.63	ug/L		99
82)	Styrene	11.434	104	595460	49.24	ug/L		99
83)	Bromoform	11.604	173	107837	52.88	ug/L		99
84)	Isopropylbenzene	11.854	105	883132	49.18	ug/L		99
85)	Cyclohexanone	11.909	55	828539	957.33	ug/L		92
86)	trans-1,4-Dichloro-2-B...	12.263	53	57335	47.88	ug/L		90
88)	1,1,2,2-Tetrachloroethane	12.196	83	268476	51.90	ug/L		99
89)	Bromobenzene	12.123	156	219445	50.99	ug/L	#	84
90)	1,2,3-Trichloropropane	12.214	110	71288	49.78	ug/L	#	81
91)	n-Propylbenzene	12.305	91	1140382	54.00	ug/L		98
92)	2-Chlorotoluene	12.360	91	630109	52.58	ug/L		99
93)	4-Chlorotoluene	12.482	91	771737	53.39	ug/L		98
94)	1,3,5-Trimethylbenzene	12.513	105	771646	54.47	ug/L		99
95)	tert-Butylbenzene	12.848	119	659579	54.58	ug/L		98
96)	1,2,4-Trimethylbenzene	12.897	105	789618	53.38	ug/L		96
97)	sec-Butylbenzene	13.080	105	1035324	54.09	ug/L		98
98)	p-Isopropyltoluene	13.250	119	827622	53.99	ug/L		98
99)	1,3-Dclbenz	13.153	146	435785	52.96	ug/L		99
100)	1,4-Dclbenz	13.250	146	433744	50.93	ug/L		97
101)	n-Butylbenzene	13.671	91	822772	53.84	ug/L		100
102)	1,2-Dclbenz	13.628	146	411525	51.27	ug/L		97
103)	1,2-Dibromo-3-chloropr...	14.433	157	48598	52.19	ug/L		96

1st FN 08/04/16
2nd KR 08/04/16

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA14\Data\080316\
Data File : B7330.D
Acq On : 3 Aug 2016 3:50 pm
Operator : F.Naegler
Sample : 50 PPB ICV Inst : MSVOA14
Misc :
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Aug 03 16:51:06 2016
Quant Method : I:\ACQUDATA\MSVOA14\Methods\S080316.M
Quant Title : MS#14 - 8260 SOILS 10ml PURGE
QLast Update : Wed Aug 03 16:40:37 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
104) 1,2,4-Tcbenzene	15.274	180	310616	52.34 ug/L	99
105) Hexachlorobt	15.482	225	161527	53.80 ug/L	98
106) Naphthalen	15.506	128	835929	54.61 ug/L	98
107) 1,2,3-Tclbenzene	15.756	180	297659	51.42 ug/L	96

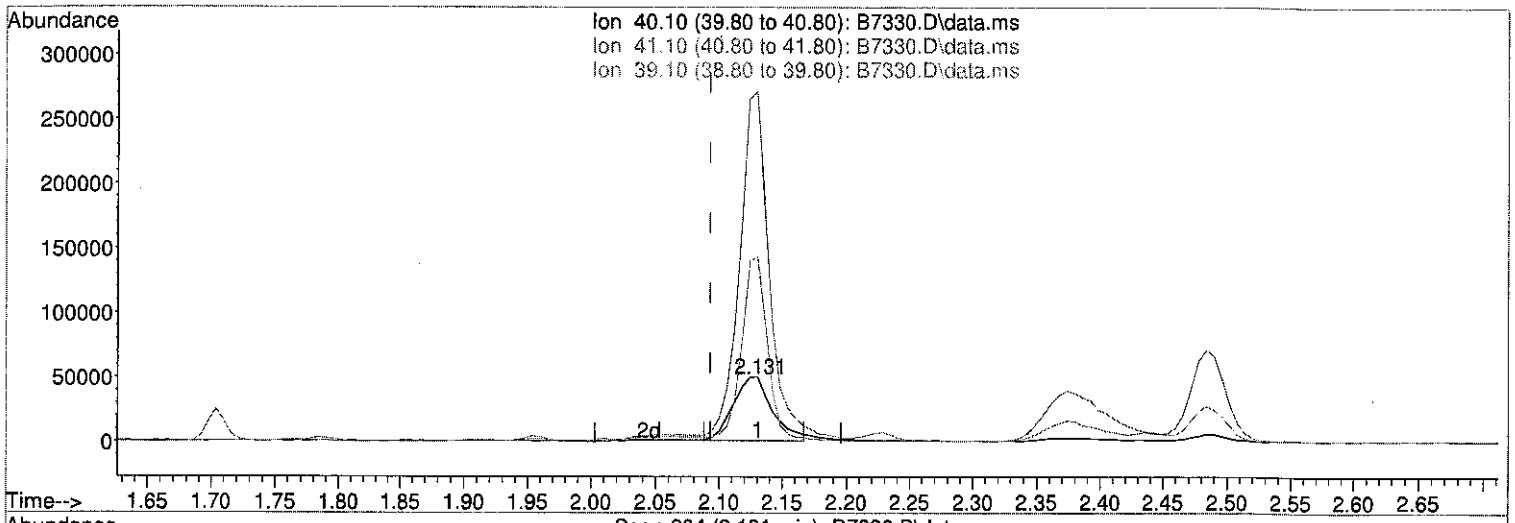
(#) = qualifier out of range (m) = manual integration (+) = signals summed

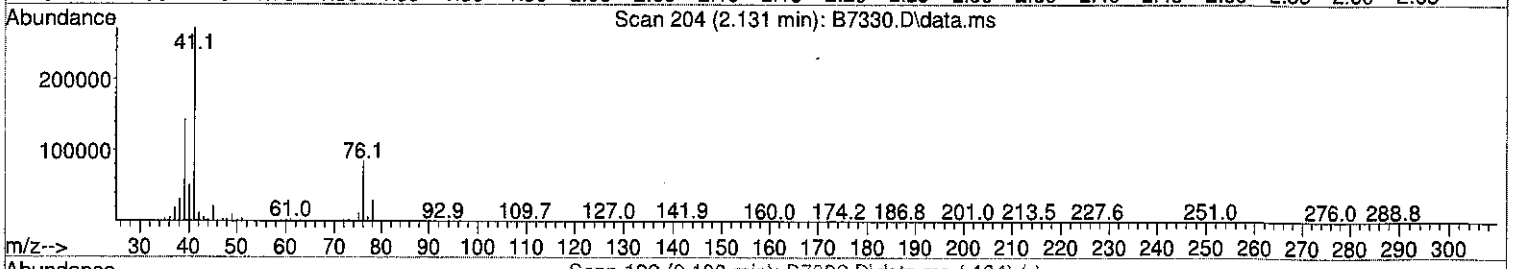
1st FN 08/04/16
2nd WR 08/04/16

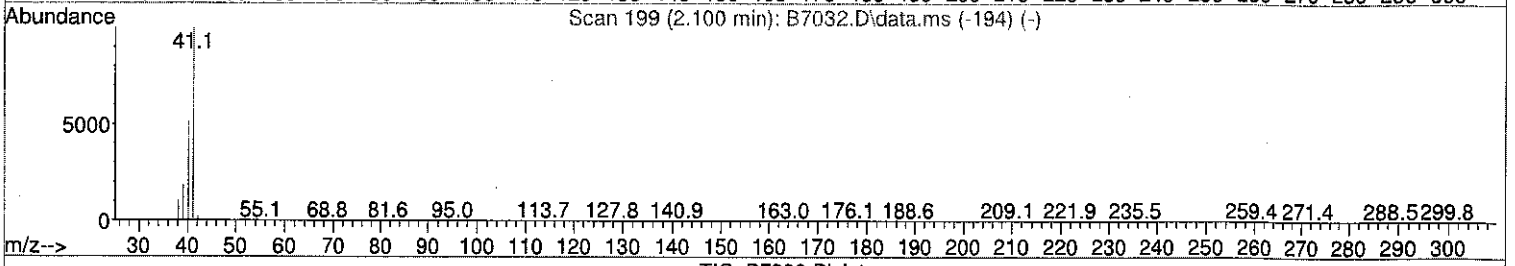
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\080316\
Data File : B7330.D
Acq On : 3 Aug 2016 3:50 pm
Operator : F.Naegler
Sample : 50 PPB ICV Inst : MSVOA14
Misc :
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Aug 03 16:49:44 2016
Quant Method : I:\ACQUDATA\MSVOA14\Methods\S080316.M
Quant Title : MS#14 - 8260 SOILS 10ml PURGE
QLast Update : Wed Aug 03 16:40:37 2016
Response via : Initial Calibration







TIC: B7330.D\data.ms

(19) Acetonitrile

2.131min (+0.038) 333.58 ug/L

response 105504

Ion	Exp%	Act%
40.10	100	100
41.10	534.60	539.57
39.10	371.40	285.38#
0.00	0.00	0.00

Manual Integration:

Before

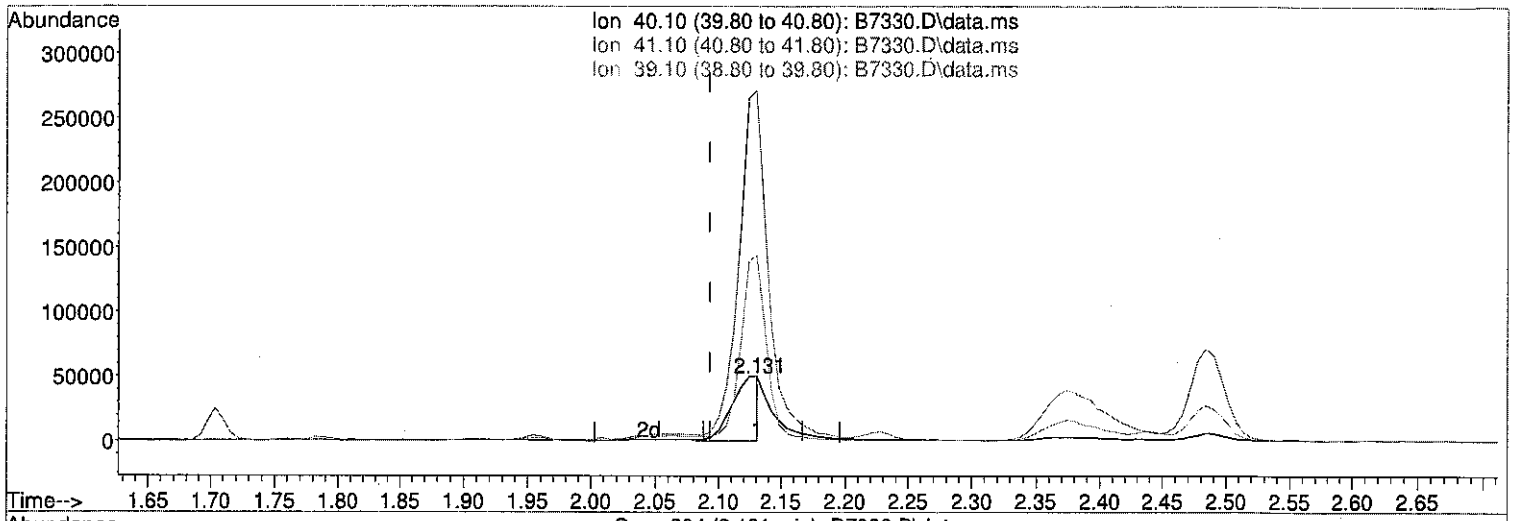
08/03/16

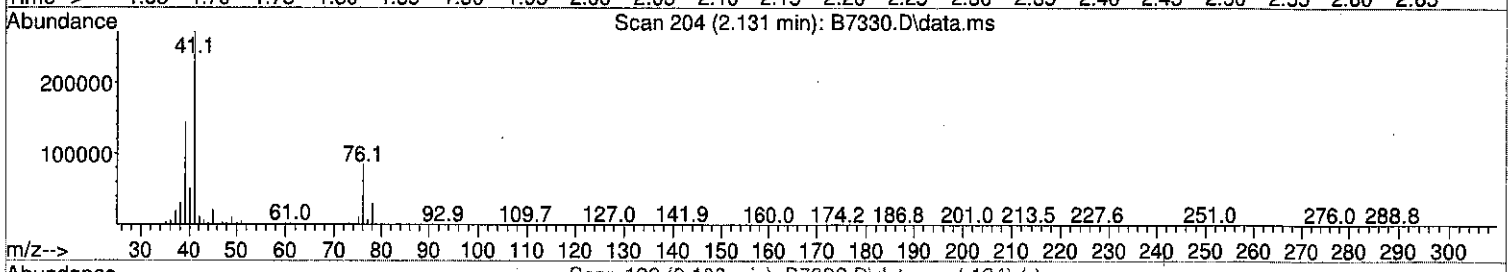
1st FN 08/04/16
2nd WR 08/04/16

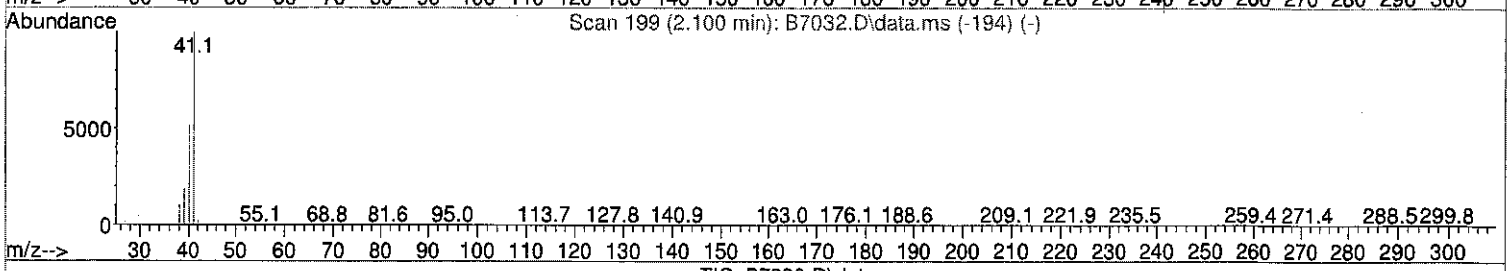
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\MSVOA14\Data\080316\
Data File : B7330.D
Acq On : 3 Aug 2016 3:50 pm
Operator : F.Naegler
Sample : 50 PPB ICV Inst : MSVOA14
Misc :
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Aug 03 16:49:44 2016
Quant Method : I:\ACQUDATA\MSVOA14\Methods\S080316.M
Quant Title : MS#14 - 8260 SOILS 10ml PURGE
QLast Update : Wed Aug 03 16:40:37 2016
Response via : Initial Calibration







TIC: B7330.D\data.ms

(19) Acetonitrile

2.131min (+0.038) 235.23 ug/L m

response 74399

Ion	Exp%	Act%
40.10	100	100
41.10	534.60	539.57
39.10	371.40	285.38#
0.00	0.00	0.00

Manual Integration:

After

Poor integration.

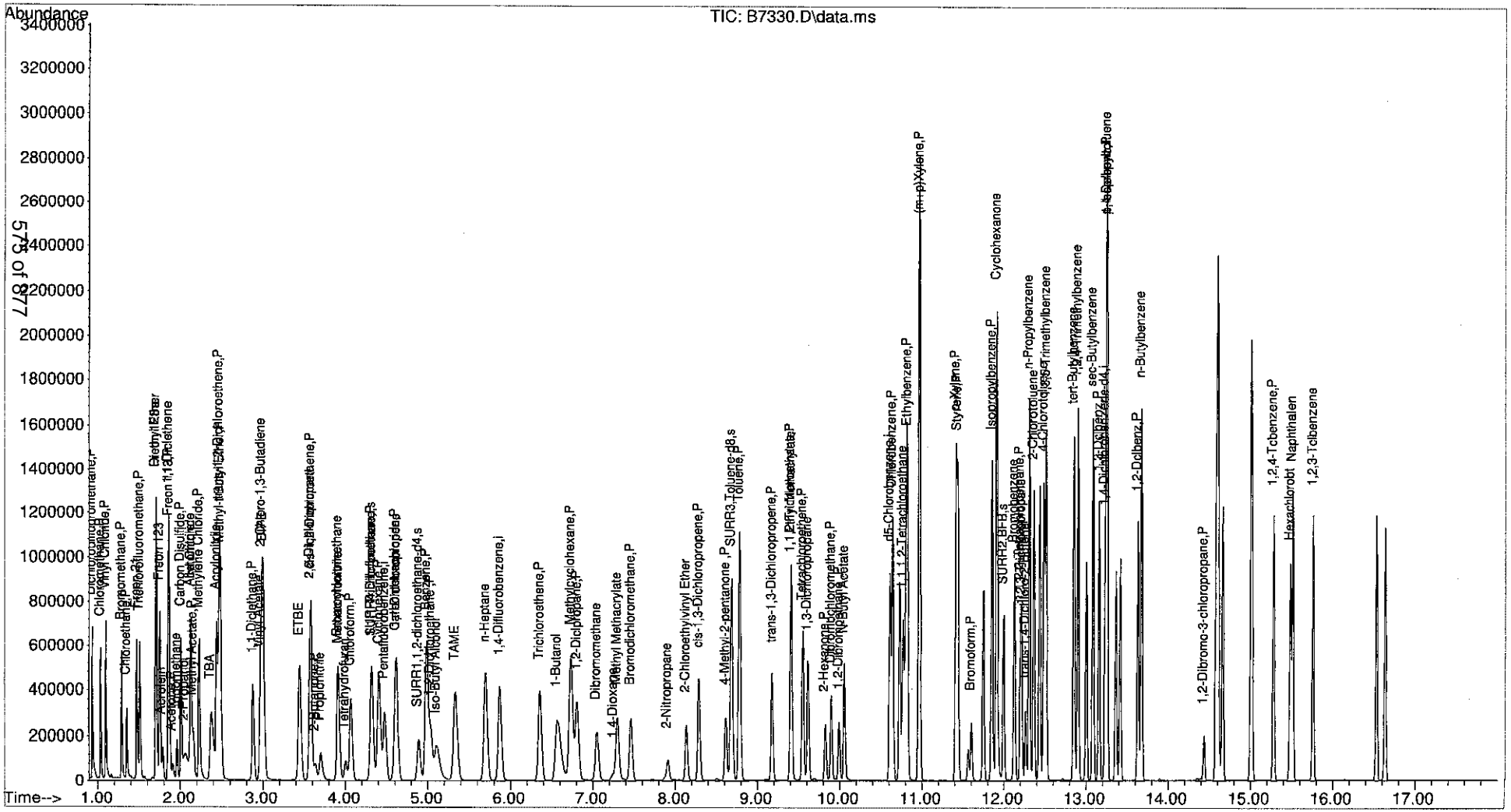
08/03/16

S080316.M Wed Aug 03 16:51:14 2016 MSVO10 Page: 1

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA14\Data\080316\
Data File : B7330.D
Acq On : 3 Aug 2016 3:50 pm
Operator : F.Naegler
Sample : 50 PPB ICV Inst : MSVOA14
Misc :
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Aug 03 16:51:06 2016
Quant Method : I:\ACQUDATA\MSVOA14\Methods\S080316.M
Quant Title : MS#14 - 8260 SOILS 10ml PURGE
QLast Update : Wed Aug 03 16:40:37 2016
Response via : Initial Calibration



1st FJ 08/04/16
2nd 08/04/16

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: ALS Environmental - Canada **Service Request:**R1607963
Project: Picatinny Arsenal

Analysis Run Log
Volatile Organic Compounds by GC/MS, Unpreserved

Analysis Method: 8260C **Analysis Lot:**508399
Instrument ID:R-MS-14

Raw Data File	Sample Name	Lab Code	Date Analyzed	Time Analyzed	Q
I:\ACQUDATA\MSVOA14\Data\080416\B7334.D\	ZZZZZZZ	ZZZZZZZ	8/4/2016	09:10:00	
I:\ACQUDATA\MSVOA14\Data\080416\B7335.D\	Continuing Calibration Verification	RQ1609149-04	8/4/2016	09:47:00	
I:\ACQUDATA\MSVOA14\Data\080416\B7336.D\	Lab Control Sample	RQ1609149-02	8/4/2016	10:16:00	
I:\ACQUDATA\MSVOA14\Data\080416\B7338.D\	Method Blank	RQ1609149-01	8/4/2016	11:04:00	
I:\ACQUDATA\MSVOA14\Data\080416\B7339.D\	ZZZZZZZ	ZZZZZZZ	8/4/2016	11:28:00	
I:\ACQUDATA\MSVOA14\Data\080416\B7340.D\	ZZZZZZZ	ZZZZZZZ	8/4/2016	12:06:00	
I:\ACQUDATA\MSVOA14\Data\080416\B7341.D\	ZZZZZZZ	ZZZZZZZ	8/4/2016	12:39:00	
I:\ACQUDATA\MSVOA14\Data\080416\B7344.D\	ZZZZZZZ	ZZZZZZZ	8/4/2016	14:03:00	
I:\ACQUDATA\MSVOA14\Data\080416\B7345.D\	ZZZZZZZ	ZZZZZZZ	8/4/2016	14:27:00	
I:\ACQUDATA\MSVOA14\Data\080416\B7346.D\	ZZZZZZZ	ZZZZZZZ	8/4/2016	14:51:00	
I:\ACQUDATA\MSVOA14\Data\080416\B7347.D\	ZZZZZZZ	ZZZZZZZ	8/4/2016	15:15:00	
I:\ACQUDATA\MSVOA14\Data\080416\B7354.D\	ZZZZZZZ	ZZZZZZZ	8/4/2016	18:17:00	
I:\ACQUDATA\MSVOA14\Data\080416\B7355.D\	ZZZZZZZ	ZZZZZZZ	8/4/2016	18:42:00	
I:\ACQUDATA\MSVOA14\Data\080416\B7356.D\	ZZZZZZZ	ZZZZZZZ	8/4/2016	19:06:00	
I:\ACQUDATA\MSVOA14\Data\080416\B7357.D\	ZZZZZZZ	ZZZZZZZ	8/4/2016	19:30:00	
I:\ACQUDATA\MSVOA14\Data\080416\B7358.D\	PY-3006B	R1607963-017	8/4/2016	19:54:00	
I:\ACQUDATA\MSVOA14\DATA\080616\B7365.D\	ZZZZZZZ	ZZZZZZZ	8/6/2016	14:04:00	
I:\ACQUDATA\MSVOA14\DATA\080616\B7371.D\	ZZZZZZZ	ZZZZZZZ	8/6/2016	16:54:00	
I:\ACQUDATA\MSVOA14\DATA\080616\B7377.D\	ZZZZZZZ	ZZZZZZZ	8/6/2016	19:20:00	
I:\ACQUDATA\MSVOA14\DATA\080616\B7378.D\	ZZZZZZZ	ZZZZZZZ	8/6/2016	19:45:00	
I:\ACQUDATA\MSVOA14\DATA\080616\B7379.D\	ZZZZZZZ	ZZZZZZZ	8/6/2016	20:09:00	
I:\ACQUDATA\MSVOA14\DATA\080616\B7380.D\	ZZZZZZZ	ZZZZZZZ	8/6/2016	20:33:00	
I:\ACQUDATA\MSVOA14\DATA\080616\B7381.D\	ZZZZZZZ	ZZZZZZZ	8/6/2016	20:57:00	

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: ALS Environmental - Canada **Service Request:**R1607963
Project: Picatinny Arsenal

Analysis Run Log
Volatile Organic Compounds by GC/MS, Unpreserved

Analysis Method: 8260C **Analysis Lot:**508399
Instrument ID:R-MS-14

Raw Data File	Sample Name	Lab Code	Date Analyzed	Time Analyzed	Q
I:\ACQUDATA\MSVOA14\DATA\080616\B7385.D\	ZZZZZZZ	ZZZZZZZ	8/6/2016	22:34:00	
I:\ACQUDATA\MSVOA14\DATA\080616\B7386.D\	ZZZZZZZ	ZZZZZZZ	8/6/2016	22:58:00	
I:\ACQUDATA\MSVOA14\DATA\080616\B7388.D\	ZZZZZZZ	ZZZZZZZ	8/6/2016	23:46:00	
I:\ACQUDATA\MSVOA14\DATA\080616\B7389.D\	ZZZZZZZ	ZZZZZZZ	8/7/2016	00:10:00	

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: ALS Environmental - Canada **Service Request:**R1607963
Project: Picatinny Arsenal

Analysis Run Log
Volatile Organic Compounds by GC/MS, Unpreserved

Analysis Method: 8260C **Analysis Lot:**508810
Instrument ID:R-MS-14

Raw Data File	Sample Name	Lab Code	Date Analyzed	Time Analyzed	Q
I:\ACQUDATA\MSVOA14\DATA\080616\B7367.D\	Continuing Calibration Verification	RQ1609304-04	8/6/2016	15:07:00	
I:\ACQUDATA\MSVOA14\DATA\080616\B7368.D\	Lab Control Sample	RQ1609304-02	8/6/2016	15:42:00	
I:\ACQUDATA\MSVOA14\DATA\080616\B7370.D\	Method Blank	RQ1609304-01	8/6/2016	16:30:00	
I:\ACQUDATA\MSVOA14\DATA\080616\B7390.D\	PY-3006B	R1607963-017	8/7/2016	00:35:00	
I:\ACQUDATA\MSVOA14\DATA\080616\B7391.D\	PY-3006B MS	RQ1609304-05	8/7/2016	00:59:00	
I:\ACQUDATA\MSVOA14\DATA\080616\B7392.D\	PY-3006B DMS	RQ1609304-06	8/7/2016	01:23:00	

Analysis:	8260-Soil	Analyst:	F. Naegler	Tune Method:	S080316.m
Date:	8/4/16	Data Path:	j:\acqudata\msvoa14\080416	Run Method:	↓
Instr.	MS#14			LIMS Run#:	508399

Pos.	Sample	Diln.	Diln. Prep.	Client	RL	Tier	Vial	pH	File#	OK?	Comments
1	BLK								B7333	Y	
2	TUNE								34	Y	
1	CCV								35	Y	
2	LCS		+ 5g sand						36	Y	
3	MBLK		↓						37	N	
4	MBLK								38	Y	RQ1609149-01
5	R1607945-003	1.00		—	6730	1	1	—	39	Y	
6	R1607954-003	1.00	10mL → 5g	—	13178	1	—	—	40	Y	Rpt 1/5
7	-003	5.00	2mL → 5g	—	↓	↓	—	—	41	Y	DL
8	↓ -003	1.00	10mL → 5g	—	↓	↓	—	—	42	—	*Test: in house sand*
9	BLK								43	Y	
10	R1607884-001	1.00	4.98g	—	15903	2	—	—	44	Y	
11	-002	1.00	4.98g	—	↓	↓	—	—	45	Y	
12	-003	0.99	5.03g	—	↓	↓	—	—	46	Y	
13	↓ -004	0.99	5.03g	—	↓	↓	—	—	47	Y	
14	R1607943-002	1.01	4.97g	—	15961	2	—	—	48	~~Y~~	N Rpt 1/1 need 1-butanol
15	-004	1.00	5.02g	—	15959	↓	—	—	49	~~Y~~	↓
16	-006	1.00	5.00g	—	↓	↓	—	—	50	~~Y~~	↓
17	-008	0.99	5.04g	—	↓	↓	—	—	51	~~Y~~	↓
18	-010	0.99	5.03g	—	↓	↓	—	—	52	~~Y~~	↓
19	↓ -012	0.99	5.05g	—	↓	↓	—	—	53	~~Y~~	↓
20	R1608002-001	1.00	0295	—	15958	1	1	—	54	Y	
21	-003	0.73	0329	—	↓	↓	1	—	55	Y	
22	-005	1.02	0335	—	↓	↓	1	—	56	Y	
23	↓ -007	0.87	0310	—	↓	↓	1	—	57	Y	
24	R1607963-017	1.00	5.00g	—	15946	4	—	—	58	Y	SURR↓ ; Rpt 1/5
25	-017MS	1.01	4.97g	—	↓	↓	—	—	59	N	↓ ↓
26	↓ -017MSD	1.01	4.96g	—	↓	↓	—	—	60	N	
27	BLK								61	—	
28	↓								62	—	
29	↓								↓ 63	—	

All samples = 5 mL + 5 uL combined IS/Surr. 10 mL purged

T/G	Primary 500	: 174329 - 5uL / 50uL	Fr	Secondary 200	: 173942 - 5uL	-12 5uL		Combined IS/Surr	— : —
HSL	Primary ↓	: 174608 - ↓ (CCV)	T/G	Secondary 500	: 174610 - 2uL	50uL - 5uL	50uL	Surrogate 50	: 174500
Fr	Primary ↓	: 174462 -	HSL	Secondary ↓	: 174609 - ↓	↓		Internal Std 50	: 174499
	Primary	:		Secondary	:	(LCS)	(SPL)		
	Primary	:		Secondary	:				

Analysis: 8260-Soil
Date: 8/6/16
Instr. MS#14

Analyst: F. Nugler
Data Path: j:\acqudata\msvoa 141 080616

Tune Method: S080316.M
Run Method: ↓
LIMS Run#: 508810

Pos.	Sample	Diln.	Diln. Prep.	Client	RL	Tier	Vial	pH	File#	OK?	Comments
1	BLK								B7364	Y	
2	TUNE								65	Y	
1	CCV								66	N	
1	CCV								67	Y	
2	LCS		+5g Sand						68	Y	
3	MBLK		↓						69	N	
4	MBLK								70	Y	RQ1609304-01
5	R1608276-003	1.00		—	6730	1	1	—	71	Y	
2	LCS (Misshot)			—	—	—	—	—	72	—	Restarted at wrong position
3	MBLK			—	—	—	—	—	73	—	↓
4	MBLK			—	—	—	—	—	74	—	
5	8276-003			—	—	—	—	—	75	—	
6	R1607943-002	0.99	5.04g	—	15961	2	—	—	76	N	MEK Hit; Rpt
7	-004	0.99	5.04g	—	↓	↓	—	—	77	Y	
8	-006	1.00	4.98g	—			—	—	78	Y	
9	-008	0.99	5.04g	—			—	—	79	Y	
10	-010	1.00	4.98g	—			—	—	80	Y	
11	-012	1.00	4.98g	—			—	—	81	Y	
12	R1608171-002	0.72	0307	—	14476	2	1	—	82	N	SURR↑; No closing CCV
13	-003	0.96	0223	—	↓	↓	1	—	83	N	MEK Hit; ↓
14	-004	0.88	0289	—			1	—	84	N	SURR↑;
15	R1608160-011	0.77	1258	—	6656	3	1	—	85	Y	
16	-012	0.85	1257	—	↓	↓	1	—	86	Y	
17	-013	0.81	0164	—			1	—	87	N	MEK Hit; Rpt
18	R1608170-003	1.00	5.02g	—	14620	2	—	—	88	Y	
19	-004	1.00	4.98g	—	↓	↓	—	—	89	Y	
20	R1607963-017	5.05	0.99g	—	15996	4	—	—	90	Y	DL; SURR↓
21	-017MS	4.95	1.01g	—	↓	↓	—	—	91	Y	SURR↑
22	-017MSD	4.95	1.01g	—			—	—	92	Y	
23	R1608170-003MS	1.00	5.02g	—	14620	2	—	—	93	—	Samples not injected
24	-003MSD	1.00	5.02g	—	↓	↓	—	—	94	—	↓
25	Closing CCV (DOA)								95	—	

All samples = 5 mL + 5 uL combined IS/Surr. 10 mL purged

T/G Primary 500 : 174329 - 5uL/50mL
HSL Primary : 174608 -
Fr Primary : 174462 -
OCL Primary : 174695 - (CCV)
Primary :

Fr Secondary 200 : 174748 - 5uL
T/G Secondary 500 : 174610 - 2uL
HSL Secondary : 174609 -
OCL Secondary : 174750 -
Secondary :

50mL (WS) -12.5uL -5uL 50mL (SPK)

Combined IS/Surr — : —
Surrogate 50 : 174500
Internal Std 50 : 174499

Analysis: 8260C/624 Analyst: D. Rifani Tune Method: W071416.M

Date: (DL) ~~07/15/16~~ 07/14/16 Data Path: j:\acqudata\msvoa 6\DATA\071516\... Run Method: ↓ ↓ ↓

Instr. GCMS#6 LIMS Run#: ICAL

Pos.	Sample	Diln.	Diln. Prep.	RL	Tier	Vial	pH	File#	OK?	Comments
→	→	→	Back to 10ml purge, split = 60:1							
1	Blk							D0279	O.K.	
2	Blk							D0280	Y	
3	Tune Check		(Run as a Blk)					81	N	used wrong method (DL) ~~To~~ W071316
4	Tune Check		" " "					82	Y	
5	Inst Blk		DL					83	Y	
		Surr	1° Targ ~~5.0~~ 1° Targ 1° TG							Final
		500	5.0 10 500							Volume DI
6	STD #1 - 0.5ppb	–	5.0µl – –					D0284	N	50mL
7	#2 - 1.0ppb	–	– 5.0µl –					85	N	50mL
→	→	Note:	Not sensitive enough for some compounds at low end - put split at 50:1 and restart							
8	Blk - split = 50:1							D0286	Y	
9	Tune Check							87	Y	
10	Inst Blk							88	Y	
		Surr	1° Targ 1° Targ 1° TG 1° HSL	1° Fr+	1°	EK+				Final
		500	5.0 10 500 500	500		500				Volume DI
11	STD #1 - 0.5ppb	–	5.0µl – – –	–		–		D0289	Y	50mL
12	#2 - 1.0ppb	–	– 5.0µl – –	–		–		D0290	Y	50mL
13	#3 - 2.0ppb	1.0µl	– 10µl – –	–		–		91	Y	~~200mL~~ 50mL } corrections
14	#4 - 5.0ppb	8.0µl	– – 2.0µl →	→		→		92	Y	~~50mL~~ 200mL } DL 7/14/16
15	#5 - 20ppb	5.0µl	– – 2.0µl →	→		→		93	Y	50mL
16	#6 - 50ppb	–	– – 5.0µl →	→		→		94	Y	↓
17	#7 - 100ppb	7.5µl	– – 10µl →	→		→		95	Y	↓
18	#8 - 150ppb	10µl	– – 15µl →	→		→		96	Y	↓
19	#9 - 200ppb	–	– – 20µl →	→		→		97	Y	↓
20	Blk							98	N	x-over
21	Blk							99	Y	
22	ICV - 50ppb							D0300	Y	except bromoform just ↑
23-34	Blks							D0301-D0312	Y	
	EOD DL 7-14-16									

All samples = 10 mL + 1.0 uL combined IS/Surr. 10 mL purged

Primary TG : 173939 10µl
Primary HSL : 173847
Primary Fr+ : 173940
Primary EK+ : 174084
Primary :

1.0mL MeOH = 1° Targ 5.0

, 20µl 1.0mL MeOH = 1° Targ 10

Secondary TG : 173918 ~~2.0µl~~ 5.0µl
Secondary HSL : 173941 ~~2.0µl~~ 5.0µl
Secondary Fr+ : 173942 12.5µl
Secondary EK+ : 173622 12.5µl
Secondary :

50mL DI = ICV

Combined IS/Surr 500 : 174027
Surrogate 500 : 173507
Internal Std : —

Analysis: 8260-soil	Analyst: F. Naugler	Tune Method: S080316.M
Date: 8/3/16	Data Path: j:\acqudata\msvoa14\080316	Run Method: ↓
Instr. MS#14		LIMS Run#: —

Pos.	Sample	Diln.	Diln. Prep.	Client	RL	Tier	Vial	pH	File#	OK?	Comments
1	BLK								B7317	Y	
2	TUNE								18	Y	
3	ICAL BLK								19	Y	
4	1.0 ppb std								20	Y	
5	2.0								21	Y	
6	5.0								22	Y	
7	20								23	Y	
8	50								24	Y	
9	100								25	Y	
10	150								26	Y	
11	200								27	Y	
12	BLK								28	Y	
13	BLK								29	Y	
14	50 ppb ICV								30	Y	
15	BLK								31	Y	
16	BLK								32	Y	

SOIL. ICAL TABLE

CONC (PPB)		1.0	2.0	5.0	20	50	100	150	200
1° T/G = 174329	10uL/1mL →	10uL/50mL	20uL/50mL	50uL/50mL	2mL/50mL	5mL/50mL	10mL/50mL	15mL/50mL	20mL/50mL
1° HSL = 174608		↓	↓	↓	↓	↓	↓	↓	↓
1° Fr = 174462		↓	↓	↓	↓	↓	↓	↓	↓
1° OCC+ = 173914		↓	↓	↓	↓	↓	↓	↓	↓

All samples = 5 mL + 5 uL combined IS/Surr. 10 mL purged

Primary SEE TABLE ABOVE
Primary :
Primary :
Primary :
Primary :

Fr Secondary 200 : 173942 - 12.5uL
T/G Secondary 50 : 174610 - 5uL
HSL Secondary : 174609 -
OCC+ Secondary : 173943 -
Secondary :

50mL (ICV)

Combined IS/Surr — : —
Surrogate 50 : 174500
Internal Std 50 : 174499

Semivolatile Organic Compounds by GC/MS

ALS Environmental—Rochester Laboratory
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client:	ALS Environmental - Canada	**Service Request:**	R1607963
Project:	Picatinny Arsenal	**Date Collected:**	07/27/16 19:30
Sample Matrix:	Water	**Date Received:**	07/30/16 13:45
Sample Name:	PY-1012	**Units:**	ug/L
Lab Code:	R1607963-002	**Basis:**	NA

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,2-Dichlorobenzene	10 U	10	1.0	1	08/05/16 18:34	8/2/16	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2-Fluorobiphenyl	80	31 - 118	08/05/16 18:34	
Nitrobenzene-d5	84	31 - 110	08/05/16 18:34	
p-Terphenyl-d14	118	30 - 133	08/05/16 18:34	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client:	ALS Environmental - Canada	**Service Request:**	R1607963
Project:	Picatinny Arsenal	**Date Collected:**	07/28/16 18:00
Sample Matrix:	Water	**Date Received:**	07/30/16 13:45
Sample Name:	PY-2009C	**Units:**	ug/L
Lab Code:	R1607963-008	**Basis:**	NA

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,2-Dichlorobenzene	10 U	10	1.0	1	08/05/16 19:02	8/2/16	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2-Fluorobiphenyl	70	31 - 118	08/05/16 19:02	
Nitrobenzene-d5	81	31 - 110	08/05/16 19:02	
p-Terphenyl-d14	94	30 - 133	08/05/16 19:02	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client:	ALS Environmental - Canada	**Service Request:**	R1607963
Project:	Picatinny Arsenal	**Date Collected:**	07/28/16 17:05
Sample Matrix:	Water	**Date Received:**	07/30/16 13:45
Sample Name:	PY-2021	**Units:**	ug/L
Lab Code:	R1607963-012	**Basis:**	NA

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,2-Dichlorobenzene	10 U	10	1.0	1	08/05/16 19:29	8/2/16	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2-Fluorobiphenyl	83	31 - 118	08/05/16 19:29	
Nitrobenzene-d5	87	31 - 110	08/05/16 19:29	
p-Terphenyl-d14	127	30 - 133	08/05/16 19:29	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client:	ALS Environmental - Canada	**Service Request:**	R1607963
Project:	Picatinny Arsenal	**Date Collected:**	07/29/16 15:45
Sample Matrix:	Soil	**Date Received:**	07/30/16 13:45
Sample Name:	PY-3005B	**Units:**	ug/Kg
Lab Code:	R1607963-016	**Basis:**	As Received

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3541

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,2-Dichlorobenzene	**69 J**	330	36	1	08/09/16 14:00	8/3/16	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2-Fluorobiphenyl	19	10 - 102	08/09/16 14:00	
Nitrobenzene-d5	22	10 - 95	08/09/16 14:00	
p-Terphenyl-d14	33	16 - 126	08/09/16 14:00	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client:	ALS Environmental - Canada	**Service Request:**	R1607963
Project:	Picatinny Arsenal	**Date Collected:**	07/29/16 15:25
Sample Matrix:	Water	**Date Received:**	07/30/16 13:45
Sample Name:	PY-3012	**Units:**	ug/L
Lab Code:	R1607963-019	**Basis:**	NA

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,2-Dichlorobenzene	10 U	10	1.0	1	08/05/16 20:53	8/2/16	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2-Fluorobiphenyl	77	31 - 118	08/05/16 20:53	
Nitrobenzene-d5	76	31 - 110	08/05/16 20:53	
p-Terphenyl-d14	115	30 - 133	08/05/16 20:53	

1st BA 08/08/16
2nd MWC 08/09/16

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\5973D\Data\080516\
Data File : BH365.D
Acq On : 5 Aug 2016 6:34 pm
Operator : BALLGEIER
Sample : R1607963-002
Misc : 267636 8/2/16 8270
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Aug 08 08:36:49 2016
Quant Method : I:\ACQUDATA\5973D\Methods\8270072816.M
Quant Title : 8270 BNA ANALYSIS
QLast Update : Fri Jul 29 08:17:04 2016
Response via : Initial Calibration

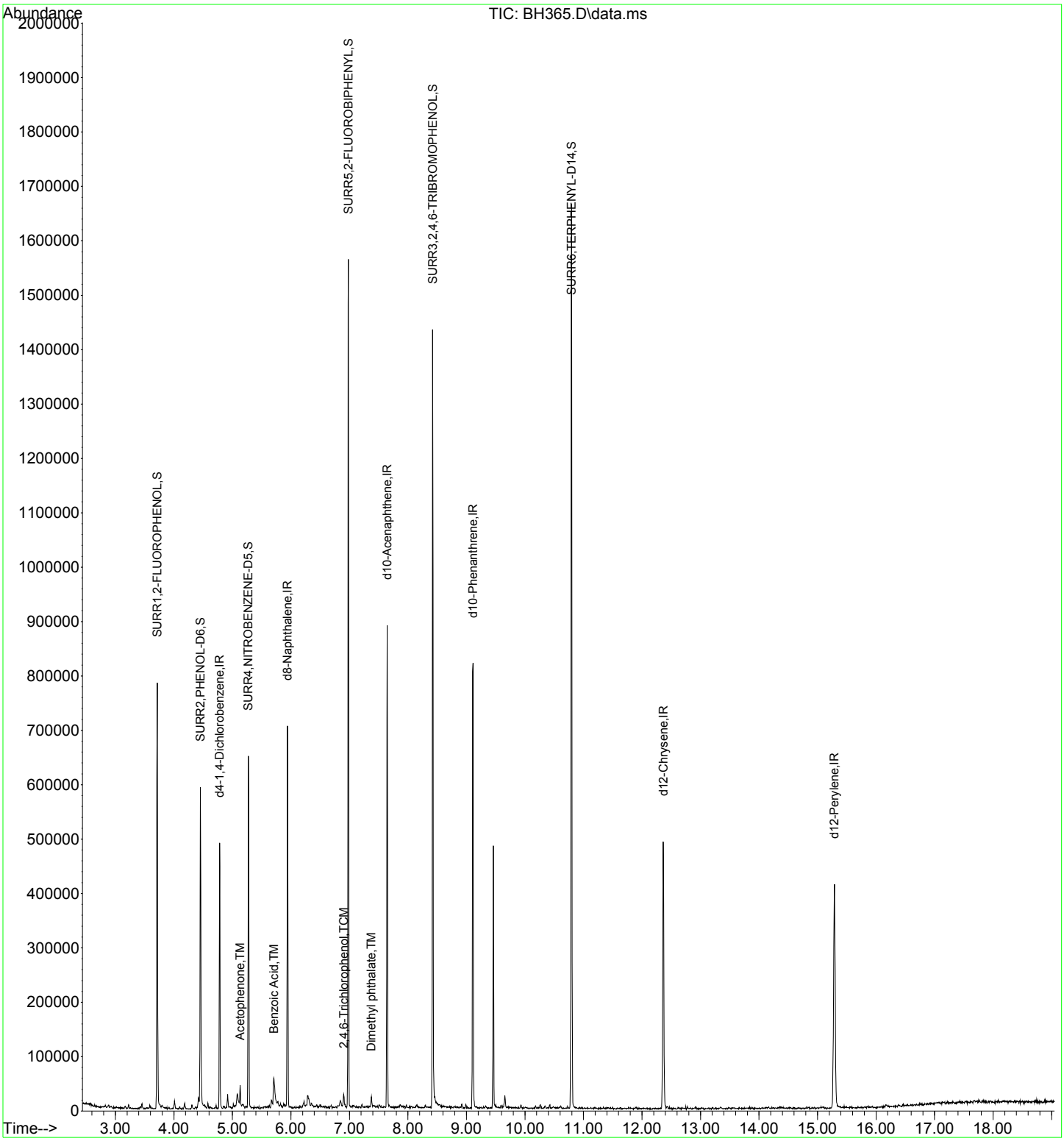
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) d4-1,4-Dichlorobenzene	4.780	152	77264	40.00	ppm	-0.01
33) d8-Naphthalene	5.940	136	309654	40.00	ppm	0.00
57) d10-Acenaphthene	7.646	164	179720	40.00	ppm	0.00
91) d10-Phenanthrene	9.112	188	299179	40.00	ppm	0.00
117) d12-Chrysene	12.364	240	225792	40.00	ppm	-0.02
135) d12-Perylene	15.290	264	261464	40.00	ppm	-0.02
System Monitoring Compounds						
7) SURR1,2-FLUOROPHENOL	3.715	112	238498	82.16	ppm	0.00
Spiked Amount 200.000	Range 10 - 105		Recovery = 41.08%			
12) SURR2,PHENOL-D6	4.453	99	212139	62.98	ppm	0.00
Spiked Amount 200.000	Range 10 - 107		Recovery = 31.49%			
34) SURR4,NITROBENZENE-D5	5.272	82	204484	83.57	ppm	0.00
Spiked Amount 100.000	Range 31 - 110		Recovery = 83.57%			
63) SURR5,2-FLUOROBIPHENYL	6.983	172	462235	80.32	ppm	0.00
Spiked Amount 100.000	Range 31 - 118		Recovery = 80.32%			
88) SURR3,2,4,6-TRIBROMOPH...	8.422	330	145652	212.58	ppm	-0.01
Spiked Amount 200.000	Range 35 - 141		Recovery = 106.29%			
124) SURR6,TERPHENYL-D14	10.797	244	546031	117.67	ppm	0.00
Spiked Amount 100.000	Range 30 - 133		Recovery = 117.67%			
Target Compounds						Qvalue
25) Acetophenone	5.133	105	9182	2.09	ppm	# 90
39) Benzoic Acid	5.710	105	15589	15.30	ppm	84
61) 2,4,6-Trichlorophenol	6.903	196	1870	1.33	ppm	# 76
71) Dimethyl phthalate	7.374	163	5725	1.09	ppm	89

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

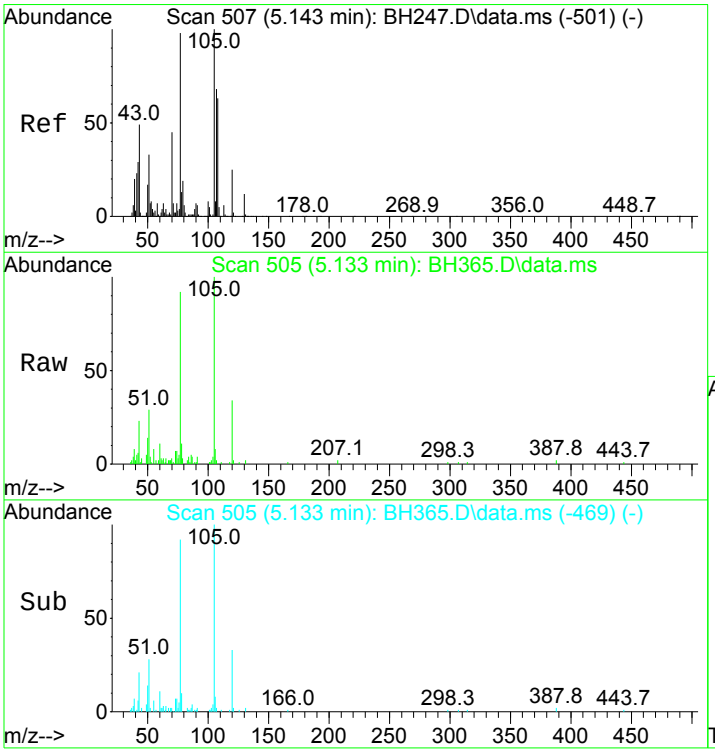
Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\5973D\Data\080516\
Data File : BH365.D
Acq On : 5 Aug 2016 6:34 pm
Operator : BALLGEIER
Sample : R1607963-002
Misc : 267636 8/2/16 8270
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Aug 08 08:36:49 2016
Quant Method : I:\ACQUDATA\5973D\Methods\8270072816.M
Quant Title : 8270 BNA ANALYSIS
QLast Update : Fri Jul 29 08:17:04 2016
Response via : Initial Calibration



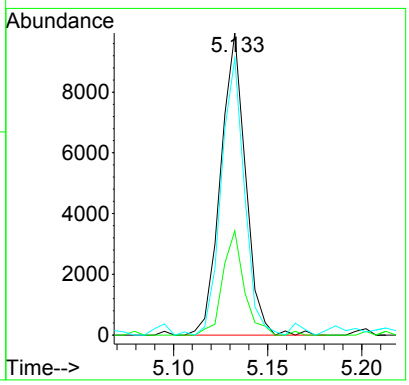
1st BA 08/08/16
2nd MW 08/09/16

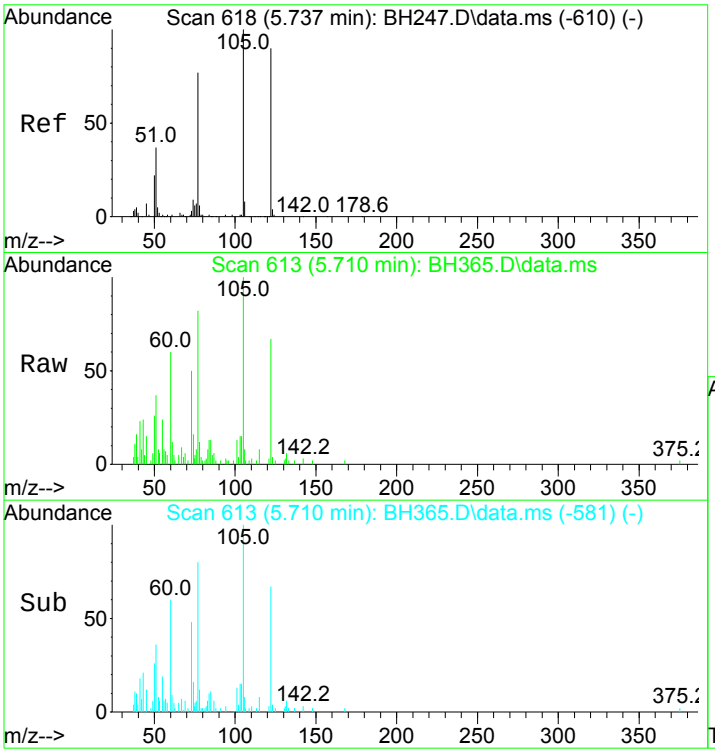


#25
Acetophenone
Concen: 2.09 ppm
RT: 5.133 min Scan# 505
Delta R.T. -0.007 min
Lab File: BH365.D
Acq: 5 Aug 2016 6:34 pm

Tgt Ion:105 Resp: 9182

Ion	Ratio	Lower	Upper
105	100		
120	34.5	17.5	32.5#
77	90.6	68.5	127.3

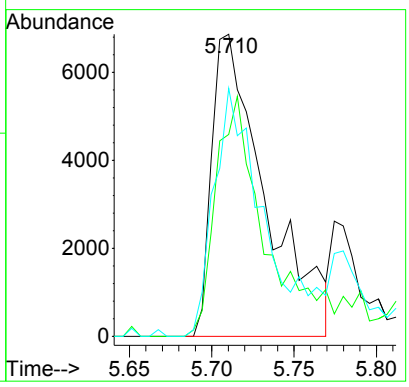




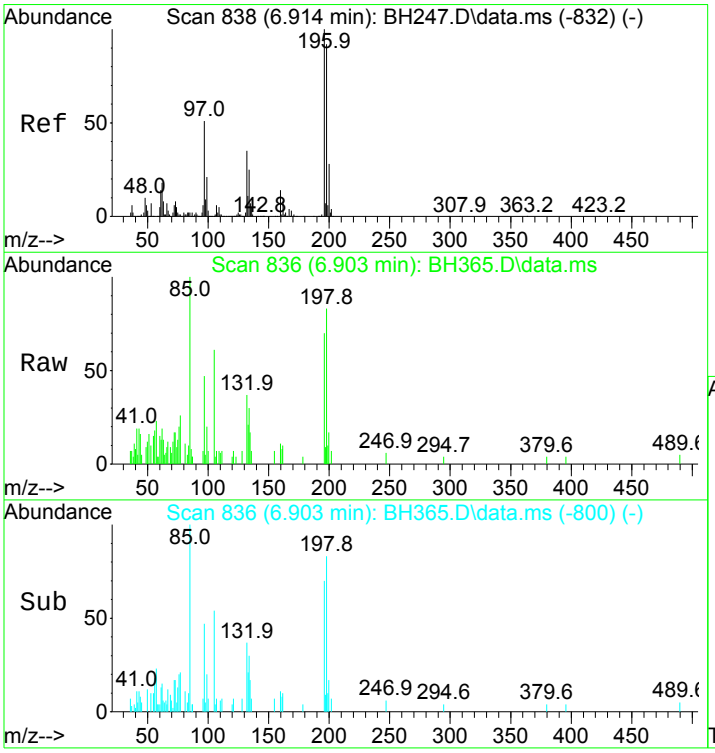
#39
Benzoic Acid
Concen: 15.30 ppm
RT: 5.710 min Scan# 613
Delta R.T. -0.030 min
Lab File: BH365.D
Acq: 5 Aug 2016 6:34 pm

Tgt Ion:105 Resp: 15589

Ion	Ratio	Lower	Upper
105	100		
122	66.8	55.8	125.8
77	82.1	42.7	112.7



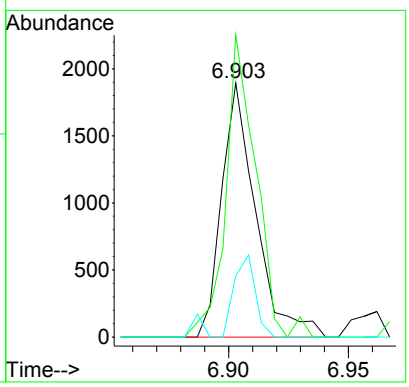
1st BA 08/08/16
2nd MW 08/09/16

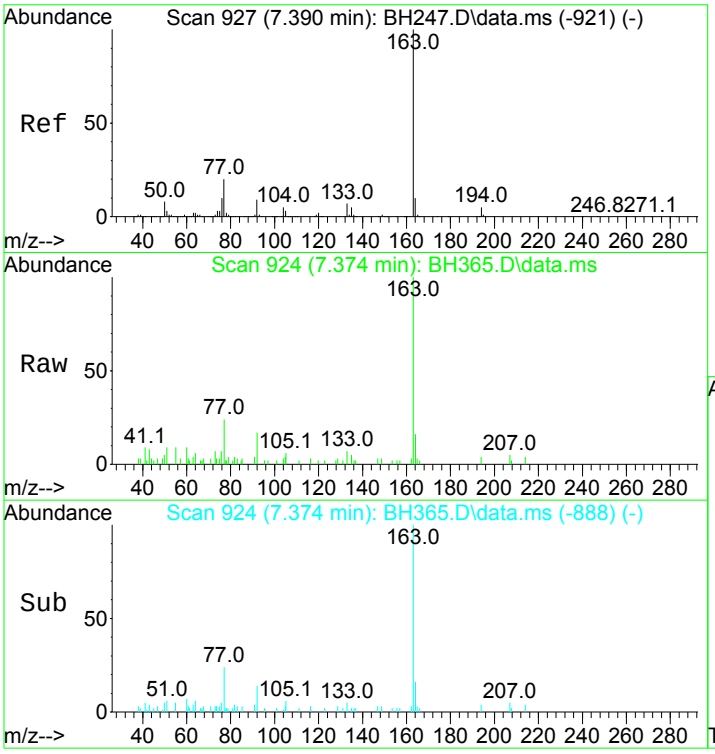


#61
2,4,6-Trichlorophenol
Concen: 1.33 ppm
RT: 6.903 min Scan# 836
Delta R.T. -0.008 min
Lab File: BH365.D
Acq: 5 Aug 2016 6:34 pm

Tgt Ion:196 Resp: 1870

Ion	Ratio	Lower	Upper
196	100		
198	118.9	72.0	112.0#
200	24.0	8.4	48.4

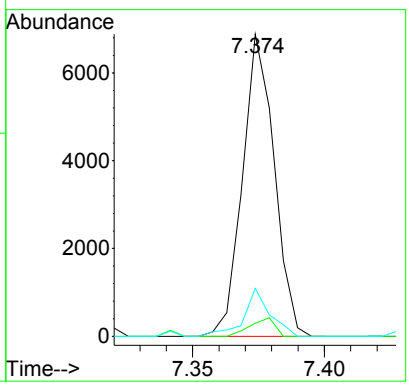




#71
Dimethyl phthalate
Concen: 1.09 ppm
RT: 7.374 min Scan# 924
Delta R.T. -0.010 min
Lab File: BH365.D
Acq: 5 Aug 2016 6:34 pm

Tgt Ion:163 Resp: 5725

Ion	Ratio	Lower	Upper
163	100		
194	4.3	0.0	24.9
164	15.9	0.0	29.9



1st BA 08/08/16
2nd MW 08/09/16

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\5973D\Data\080516\
Data File : BH366.D
Acq On : 5 Aug 2016 7:02 pm
Operator : BALLGEIER
Sample : R1607963-008
Misc : 267636 8/2/16 8270
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Aug 08 08:37:03 2016
Quant Method : I:\ACQUDATA\5973D\Methods\8270072816.M
Quant Title : 8270 BNA ANALYSIS
QLast Update : Fri Jul 29 08:17:04 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) d4-1,4-Dichlorobenzene	4.785	152	77796	40.00	ppm	0.00
33) d8-Naphthalene	5.940	136	307776	40.00	ppm	0.00
57) d10-Acenaphthene	7.646	164	174019	40.00	ppm	0.00
91) d10-Phenanthrene	9.112	188	278286	40.00	ppm	0.00
117) d12-Chrysene	12.364	240	213621	40.00	ppm	-0.02
135) d12-Perylene	15.290	264	250138	40.00	ppm	-0.02
System Monitoring Compounds						
7) SURR1,2-FLUOROPHENOL	3.715	112	236928	81.06	ppm	0.00
Spiked Amount 200.000	Range 10 - 105		Recovery = 40.53%			
12) SURR2,PHENOL-D6	4.453	99	205748	60.66	ppm	0.00
Spiked Amount 200.000	Range 10 - 107		Recovery = 30.33%			
34) SURR4,NITROBENZENE-D5	5.272	82	196619	80.85	ppm	0.00
Spiked Amount 100.000	Range 31 - 110		Recovery = 80.85%			
63) SURR5,2-FLUOROBIPHENYL	6.983	172	391452	70.25	ppm	0.00
Spiked Amount 100.000	Range 31 - 118		Recovery = 70.25%			
88) SURR3,2,4,6-TRIBROMOPH...	8.427	330	138182	208.29	ppm	0.00
Spiked Amount 200.000	Range 35 - 141		Recovery = 104.15%			
124) SURR6,TERPHENYL-D14	10.797	244	413678	94.23	ppm	0.00
Spiked Amount 100.000	Range 30 - 133		Recovery = 94.23%			

Target Compounds Qvalue

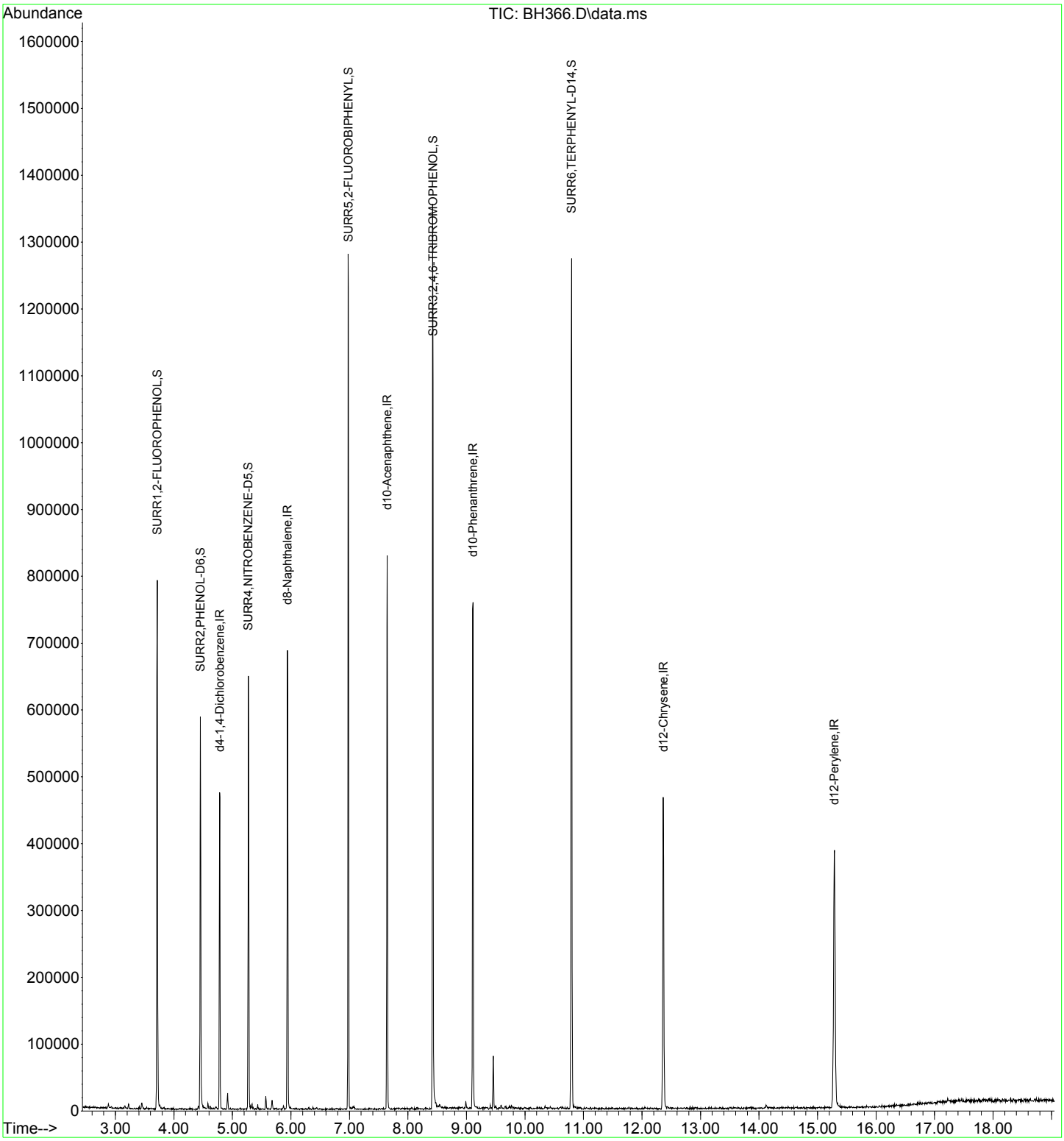
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

1st BA 08/08/16
2nd mwc 08/09/16

Data Path : I:\ACQUDATA\5973D\Data\080516\
Data File : BH366.D
Acq On : 5 Aug 2016 7:02 pm
Operator : BALLGEIER
Sample : R1607963-008
Misc : 267636 8/2/16 8270
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Aug 08 08:37:03 2016
Quant Method : I:\ACQUDATA\5973D\Methods\8270072816.M
Quant Title : 8270 BNA ANALYSIS
QLast Update : Fri Jul 29 08:17:04 2016
Response via : Initial Calibration



1st BA 08/08/16
2nd MWC 08/09/16

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\5973D\Data\080516\
Data File : BH367.D
Acq On : 5 Aug 2016 7:29 pm
Operator : BALLGEIER
Sample : R1607963-012
Misc : 267636 8/2/16 8270
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Aug 08 08:37:17 2016
Quant Method : I:\ACQUDATA\5973D\Methods\8270072816.M
Quant Title : 8270 BNA ANALYSIS
QLast Update : Fri Jul 29 08:17:04 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) d4-1,4-Dichlorobenzene	4.785	152	75537	40.00	ppm	0.00
33) d8-Naphthalene	5.940	136	307273	40.00	ppm	0.00
57) d10-Acenaphthene	7.646	164	180413	40.00	ppm	0.00
91) d10-Phenanthrene	9.107	188	289457	40.00	ppm	-0.01
117) d12-Chrysene	12.364	240	212624	40.00	ppm	-0.02
135) d12-Perylene	15.290	264	250442	40.00	ppm	-0.02
System Monitoring Compounds						
7) SURR1,2-FLUOROPHENOL	3.715	112	254483	89.67	ppm	0.00
Spiked Amount 200.000	Range 10 - 105		Recovery = 44.84%			
12) SURR2,PHENOL-D6	4.453	99	223310	67.81	ppm	0.00
Spiked Amount 200.000	Range 10 - 107		Recovery = 33.91%			
34) SURR4,NITROBENZENE-D5	5.272	82	210291	86.61	ppm	0.00
Spiked Amount 100.000	Range 31 - 110		Recovery = 86.61%			
63) SURR5,2-FLUOROBIPHENYL	6.983	172	477011	82.57	ppm	0.00
Spiked Amount 100.000	Range 31 - 118		Recovery = 82.57%			
88) SURR3,2,4,6-TRIBROMOPH...	8.422	330	149276	217.04	ppm	-0.01
Spiked Amount 200.000	Range 35 - 141		Recovery = 108.52%			
124) SURR6,TERPHENYL-D14	10.797	244	554136	126.82	ppm	0.00
Spiked Amount 100.000	Range 30 - 133		Recovery = 126.82%			
Target Compounds						Qvalue
25) Acetophenone	5.133	105	8351	1.95	ppm	87
39) Benzoic Acid	5.705	105	20188	19.97	ppm	78
61) 2,4,6-Trichlorophenol	6.903	196	2421	1.72	ppm	94
82) 2,3,4,6-Tetrachlorophenol	7.973	232	1277	1.26	ppm	90

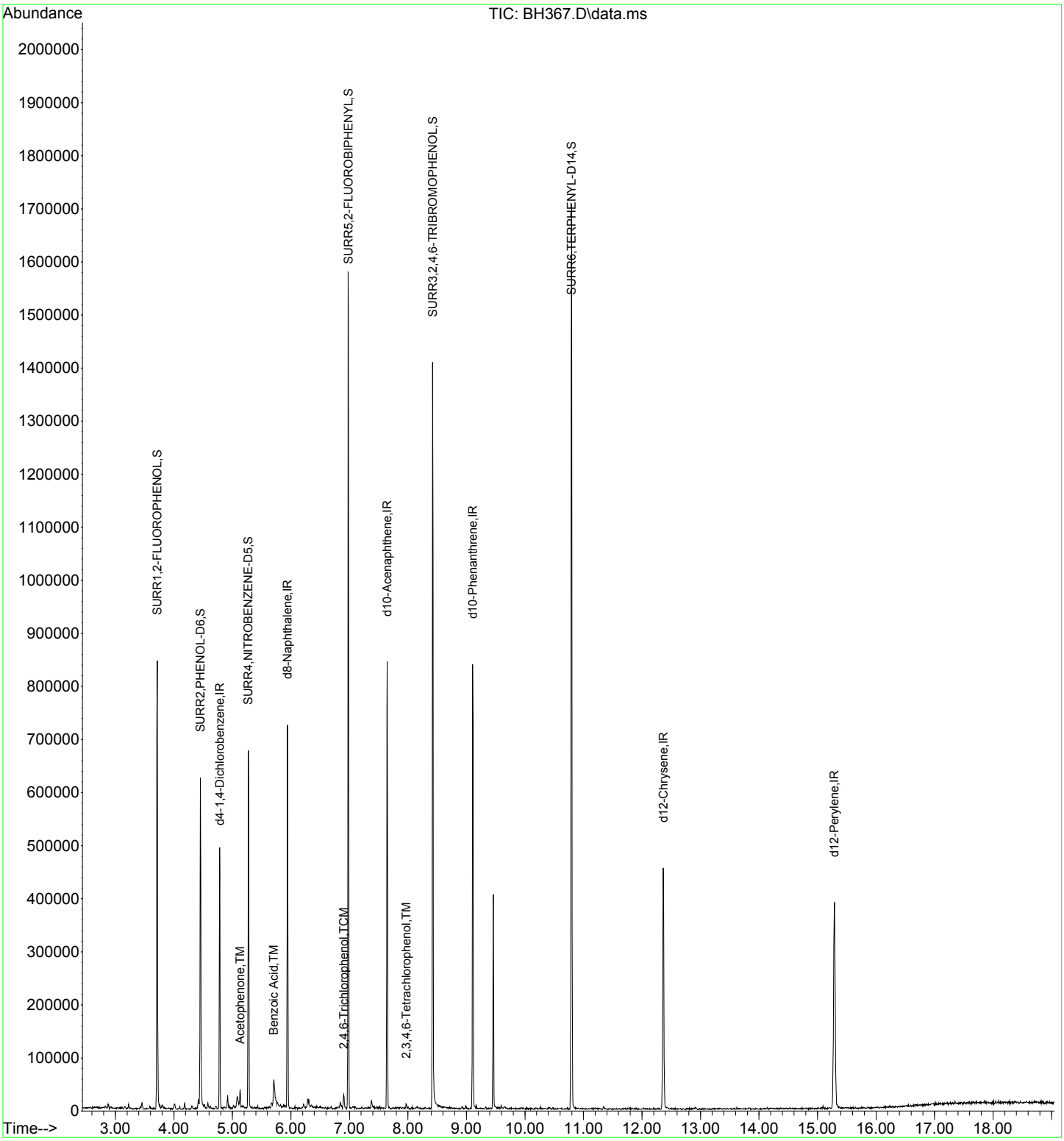
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

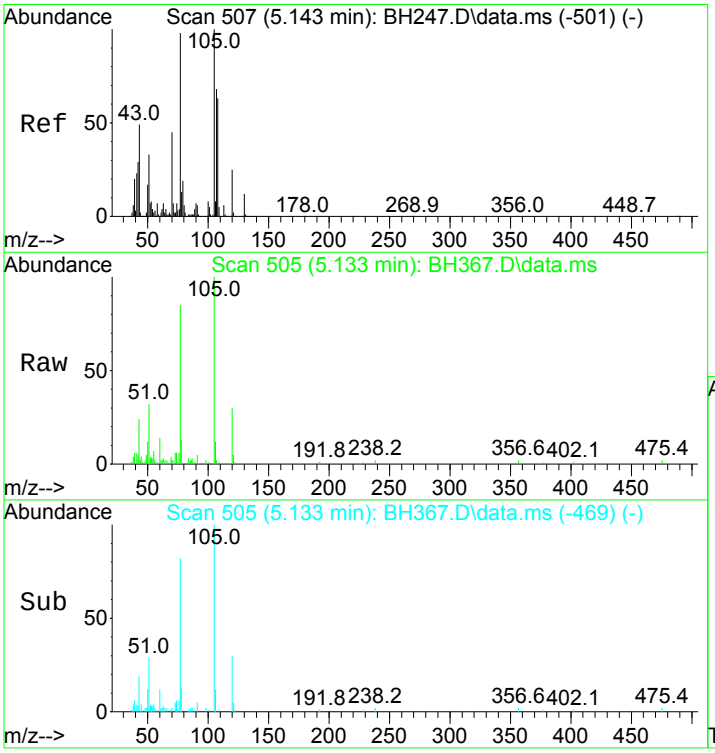
1st BA 08/08/16
2nd MWC 08/09/16

Data Path : I:\ACQUDATA\5973D\Data\080516\
Data File : BH367.D
Acq On : 5 Aug 2016 7:29 pm
Operator : BALLGEIER
Sample : R1607963-012
Misc : 267636 8/2/16 8270
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Aug 08 08:37:17 2016
Quant Method : I:\ACQUDATA\5973D\Methods\8270072816.M
Quant Title : 8270 BNA ANALYSIS
QLast Update : Fri Jul 29 08:17:04 2016
Response via : Initial Calibration



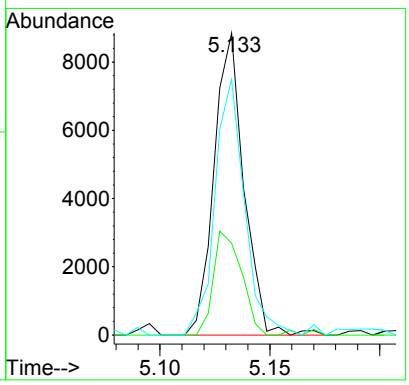
1st BA 08/08/16
2nd MW 08/09/16

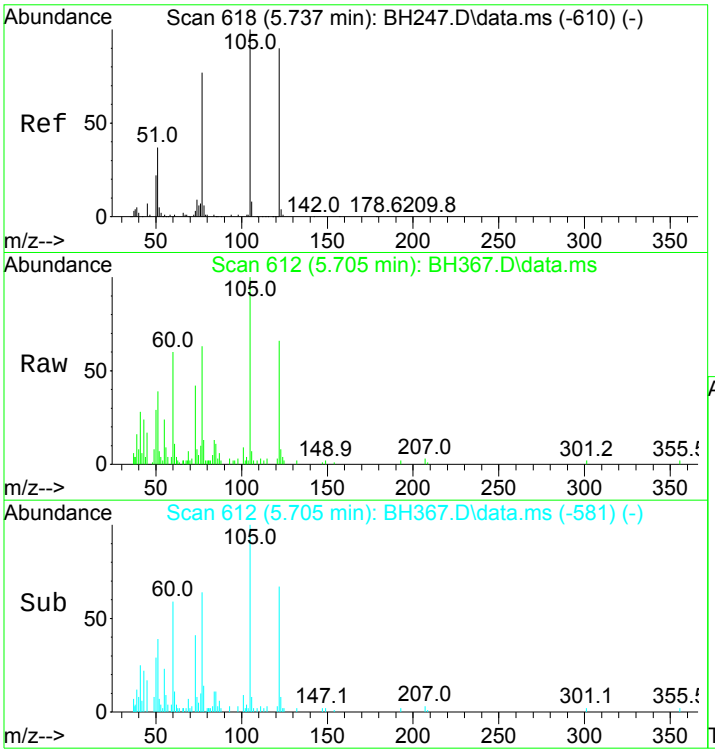


#25
Acetophenone
Concen: 1.95 ppm
RT: 5.133 min Scan# 505
Delta R.T. -0.007 min
Lab File: BH367.D
Acq: 5 Aug 2016 7:29 pm

Tgt Ion:105 Resp: 8351

Ion	Ratio	Lower	Upper
105	100		
120	30.4	17.5	32.5
77	84.6	68.5	127.3

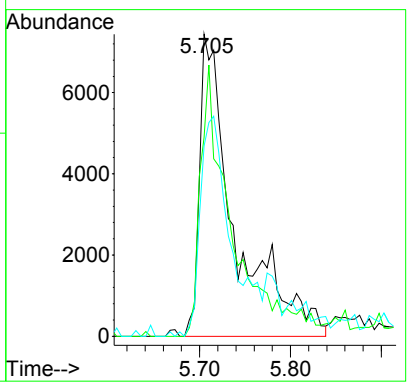




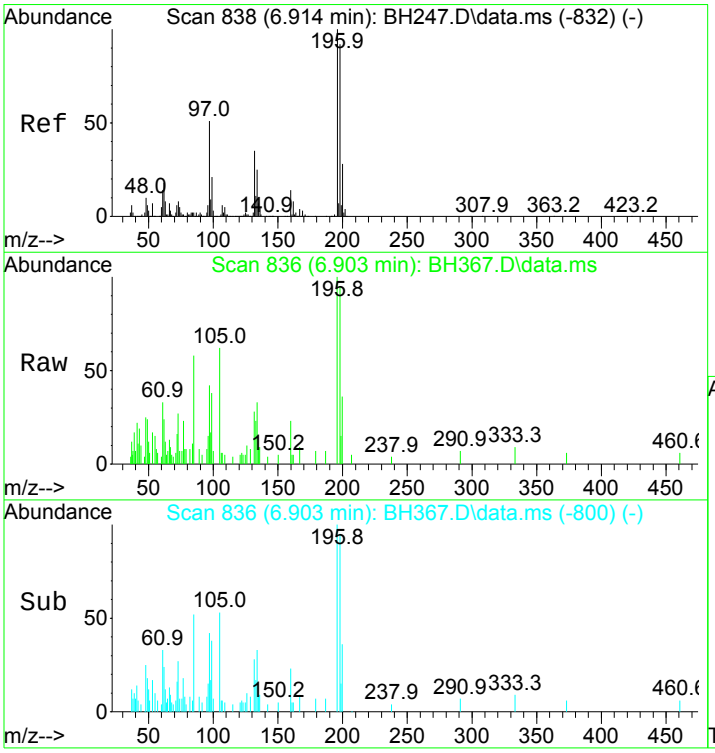
#39
Benzoic Acid
Concen: 19.97 ppm
RT: 5.705 min Scan# 612
Delta R.T. -0.036 min
Lab File: BH367.D
Acq: 5 Aug 2016 7:29 pm

Tgt Ion:105 Resp: 20188

Ion	Ratio	Lower	Upper
105	100		
122	65.8	55.8	125.8
77	63.1	42.7	112.7



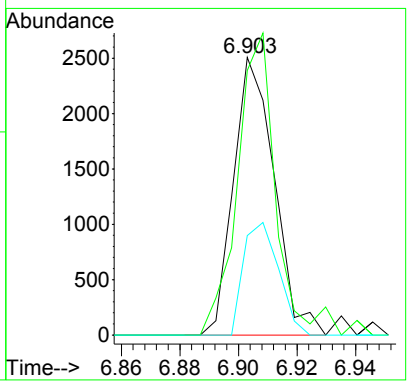
1st BA 08/08/16
2nd MW 08/09/16

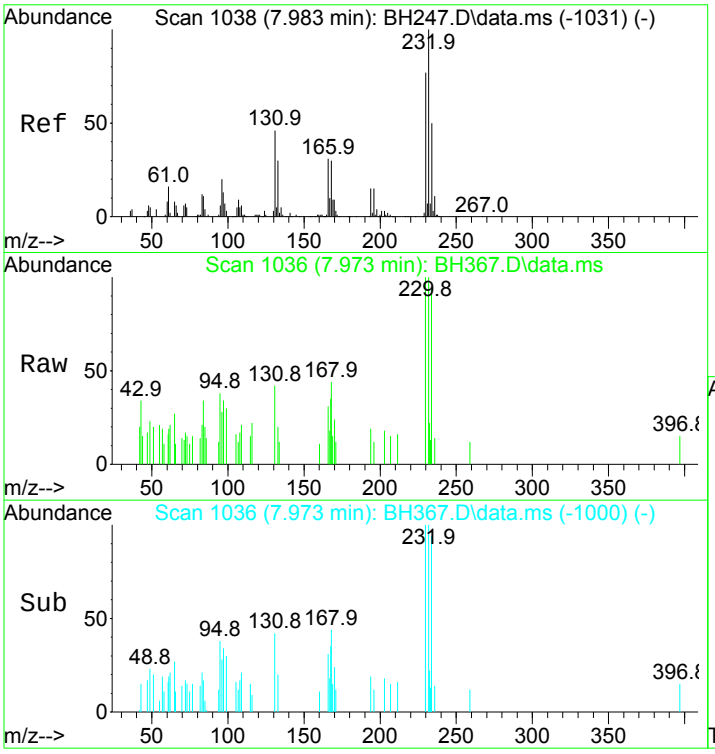


#61
2,4,6-Trichlorophenol
Concen: 1.72 ppm
RT: 6.903 min Scan# 836
Delta R.T. -0.008 min
Lab File: BH367.D
Acq: 5 Aug 2016 7:29 pm

Tgt Ion:196 Resp: 2421

Ion	Ratio	Lower	Upper
196	100		
198	95.3	72.0	112.0
200	35.8	8.4	48.4

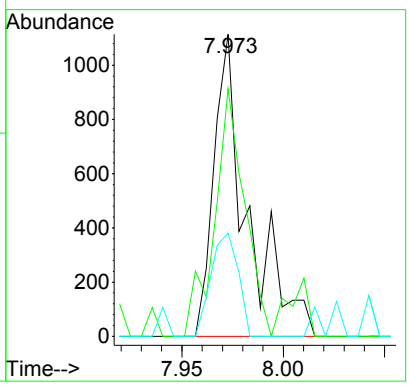




#82
2,3,4,6-Tetrachlorophenol
Concen: 1.26 ppm
RT: 7.973 min Scan# 1036
Delta R.T. -0.007 min
Lab File: BH367.D
Acq: 5 Aug 2016 7:29 pm

Tgt Ion:232 Resp: 1277

Ion	Ratio	Lower	Upper
232	100		
230	82.0	37.1	117.1
131	34.2	6.0	86.0



1st DM 08/10/16
2nd BA 08/10/16

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\5973D\Data\080916\
Data File : BH416.D
Acq On : 9 Aug 2016 2:00 pm
Operator : J.Misiurewicz
Sample : R1607963-016 Inst : 5973D
Misc : 267724 8270D SOIL IV
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Aug 10 08:47:54 2016
Quant Method : I:\ACQUDATA\5973D\Methods\8270080816.M
Quant Title : 8270 BNA ANALYSIS
QLast Update : Tue Aug 09 10:29:59 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) d4-1,4-Dichlorobenzene	4.785	152	86711	40.00	ppm	0.00
33) d8-Naphthalene	5.940	136	354413	40.00	ppm	0.00
57) d10-Acenaphthene	7.646	164	198686	40.00	ppm	0.00
91) d10-Phenanthrene	9.128	188	330527	40.00	ppm	0.02
117) d12-Chrysene	12.369	240	238609	40.00	ppm	0.00
135) d12-Perylene	15.295	264	272236	40.00	ppm	0.00
System Monitoring Compounds						
7) SURR1,2-FLUOROPHENOL	3.726	112	103853	30.85	ppm	0.00
Spiked Amount 200.000	Range 16 - 129		Recovery = 15.43%#			
12) SURR2,PHENOL-D6	4.459	99	150553	38.59	ppm	0.00
Spiked Amount 200.000	Range 10 - 145		Recovery = 19.30%			
34) SURR4,NITROBENZENE-D5	5.272	82	71245	21.87	ppm	0.00
Spiked Amount 100.000	Range 10 - 95		Recovery = 21.87%			
63) SURR5,2-FLUOROBIPHENYL	6.978	172	131643	19.16	ppm	0.00
Spiked Amount 100.000	Range 10 - 102		Recovery = 19.16%			
88) SURR3,2,4,6-TRIBROMOPH...	8.422	330	42705	50.28	ppm	0.00
Spiked Amount 200.000	Range 13 - 128		Recovery = 25.14%			
124) SURR6,TERPHENYL-D14	10.802	244	177605	33.36	ppm	0.00
Spiked Amount 100.000	Range 16 - 126		Recovery = 33.36%			
Target Compounds						Qvalue
19) 1,2-Diclbenzene	4.935	146	7253	2.06	ppm	86
75) 2,4-Dinitrophenol	7.716	184	6991	20.54	ppm	81
78) 4-Nitrophenol	7.817	65	5614	5.17	ppm #	78
114) Di-n-butylphthalate	9.684	149	22179	2.02	ppm	99
134) bis(2-Ethylhexyl)phtha...	12.439	149	10308	1.82	ppm	98

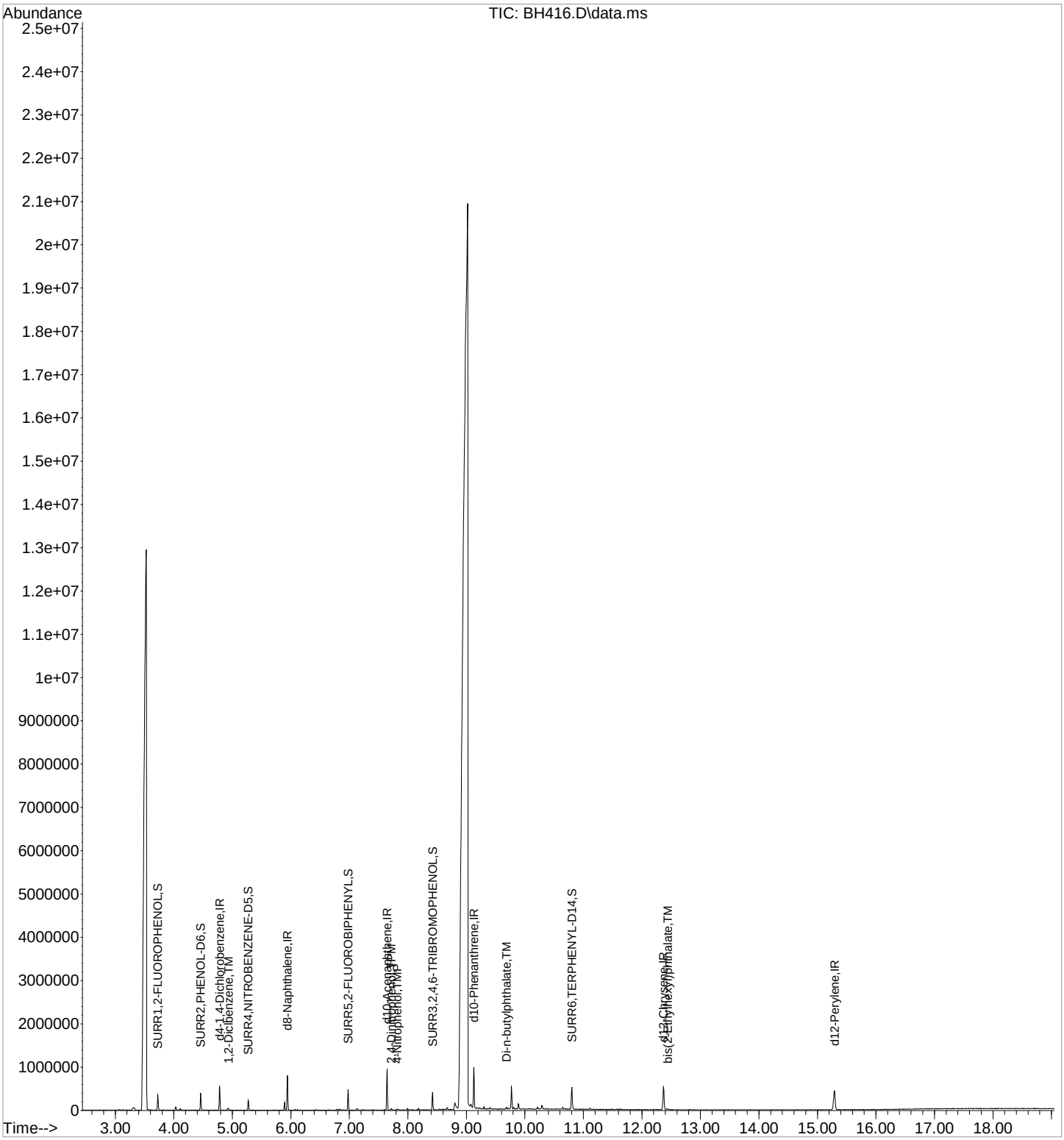
(#) = qualifier out of range (m) = manual integration (+) = signals summed

1st DM 08/10/16
2nd BA 08/10/16

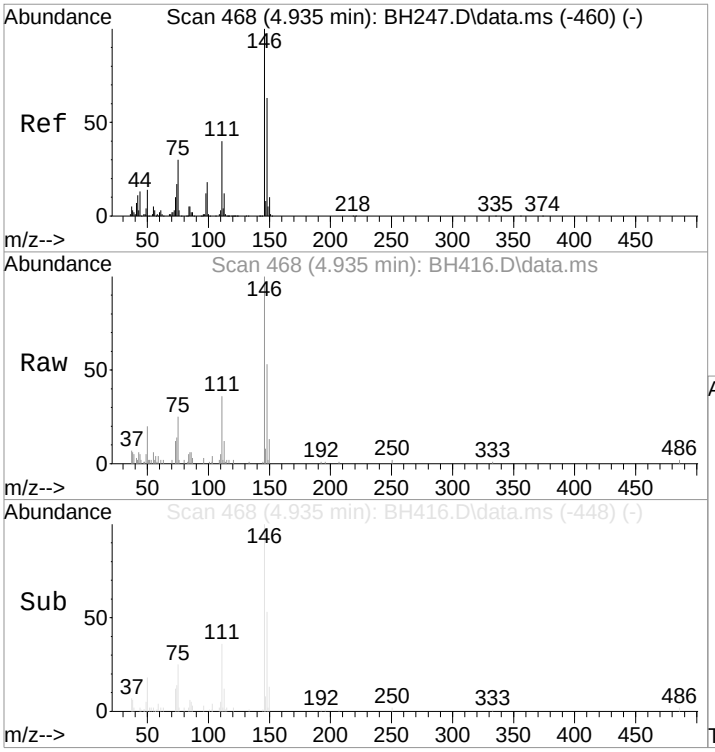
Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\5973D\Data\080916\
Data File : BH416.D
Acq On : 9 Aug 2016 2:00 pm
Operator : J.Misiurewicz
Sample : R1607963-016 Inst : 5973D
Misc : 267724 8270D SOIL IV
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Aug 10 08:47:54 2016
Quant Method : I:\ACQUDATA\5973D\Methods\8270080816.M
Quant Title : 8270 BNA ANALYSIS
QLast Update : Tue Aug 09 10:29:59 2016
Response via : Initial Calibration



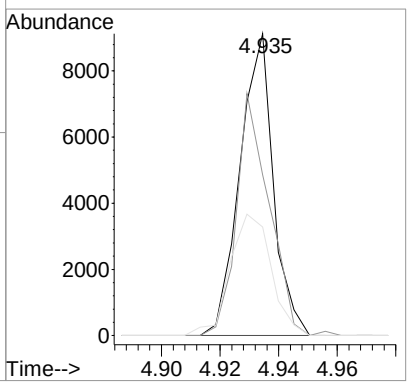
1st DM 08/10/16
2nd BA 08/10/16

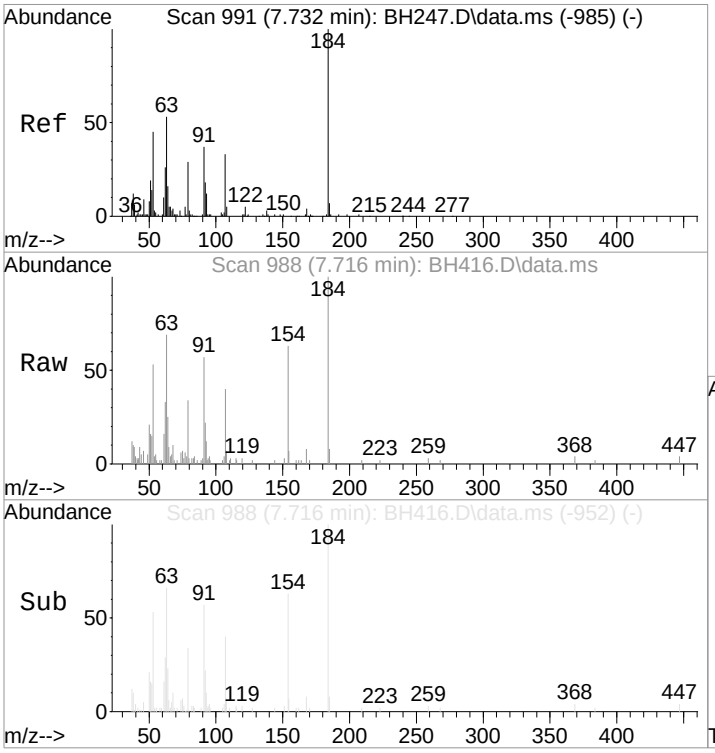


#19
1,2-Diclbenzene
Concen: 2.06 ppm
RT: 4.935 min Scan# 468
Delta R.T. 0.005 min
Lab File: BH416.D
Acq: 9 Aug 2016 2:00 pm

Tgt Ion:146 Resp: 7253

Ion	Ratio	Lower	Upper
146	100		
148	52.5	45.2	85.2
111	35.9	23.3	63.3

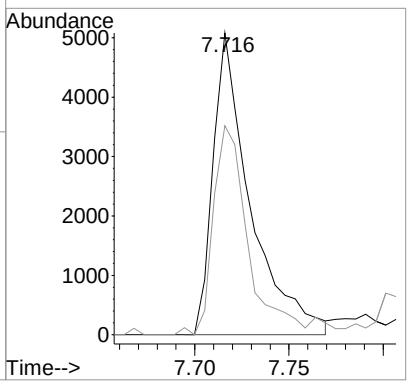




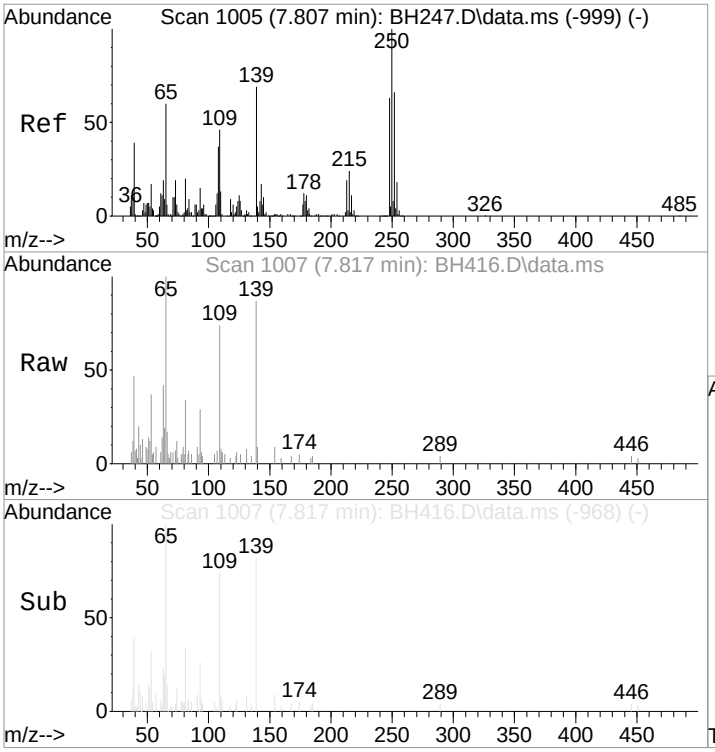
#75
2,4-Dinitrophenol
Concen: 20.54 ppm
RT: 7.716 min Scan# 988
Delta R.T. -0.008 min
Lab File: BH416.D
Acq: 9 Aug 2016 2:00 pm

Tgt Ion:184 Resp: 6991

Ion	Ratio	Lower	Upper
184	100		
63	69.3	15.4	95.4



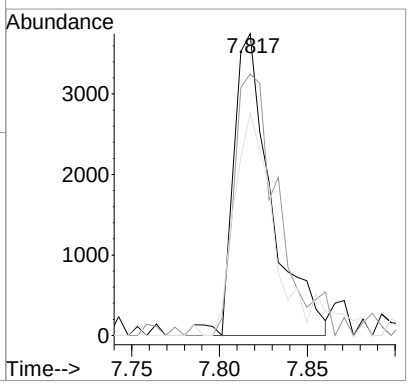
1st DM 08/10/16
2nd BA 08/10/16

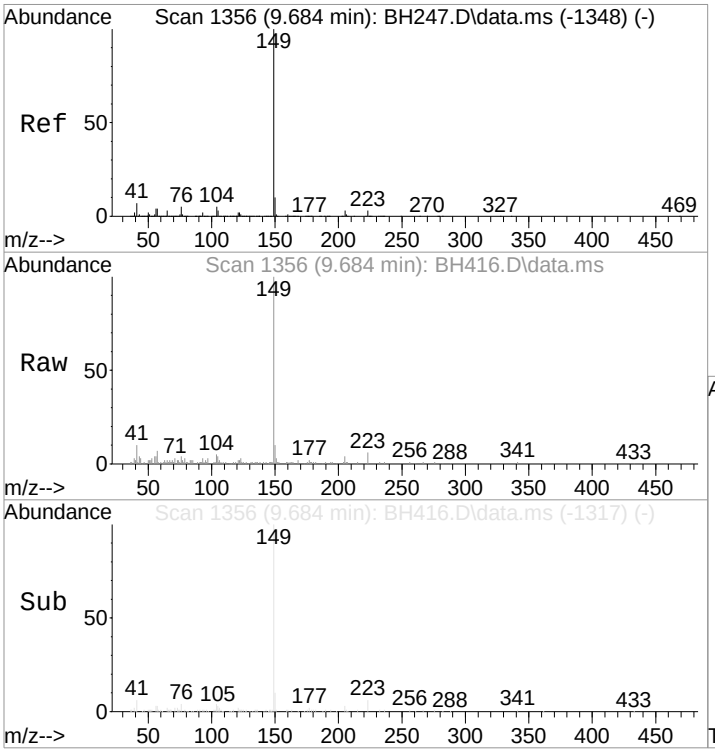


#78
4-Nitrophenol
Concen: 5.17 ppm
RT: 7.817 min Scan# 1007
Delta R.T. 0.006 min
Lab File: BH416.D
Acq: 9 Aug 2016 2:00 pm

Tgt Ion: 65 Resp: 5614

Ion	Ratio	Lower	Upper
65	100		
139	81.4	81.5	141.5#
109	71.2	54.4	114.4

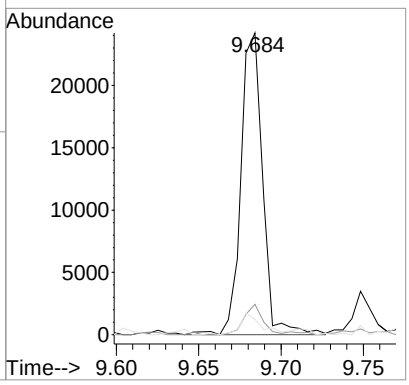




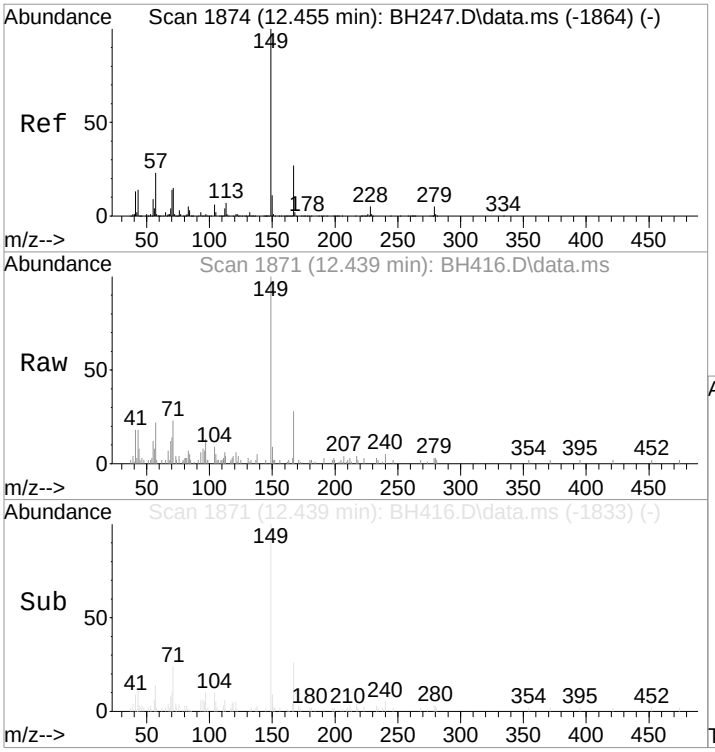
#114
Di-n-butylphthalate
Concen: 2.02 ppm
RT: 9.684 min Scan# 1356
Delta R.T. 0.007 min
Lab File: BH416.D
Acq: 9 Aug 2016 2:00 pm

Tgt Ion:149 Resp: 22179

Ion	Ratio	Lower	Upper
149	100		
150	9.8	0.0	29.4
104	3.9	0.0	24.5



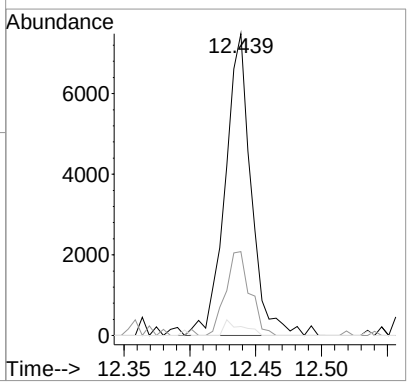
1st DM 08/10/16
2nd BA 08/10/16



#134
bis(2-Ethylhexyl)phthalate
Concen: 1.82 ppm
RT: 12.439 min Scan# 1871
Delta R.T. 0.002 min
Lab File: BH416.D
Acq: 9 Aug 2016 2:00 pm

Tgt Ion:149 Resp: 10308

Ion	Ratio	Lower	Upper
149	100		
167	28.0	6.9	46.9
279	5.3	0.0	24.9



1st BA 08/08/16
2nd MW 08/09/16

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\5973D\Data\080516\
Data File : BH370.D
Acq On : 5 Aug 2016 8:53 pm
Operator : BALLGEIER
Sample : R1607963-019
Misc : 267636 8/2/16 8270
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Aug 08 08:38:07 2016
Quant Method : I:\ACQUDATA\5973D\Methods\8270072816.M
Quant Title : 8270 BNA ANALYSIS
QLast Update : Fri Jul 29 08:17:04 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) d4-1,4-Dichlorobenzene	4.780	152	78144	40.00	ppm	-0.01
33) d8-Naphthalene	5.940	136	316273	40.00	ppm	0.00
57) d10-Acenaphthene	7.646	164	178515	40.00	ppm	0.00
91) d10-Phenanthrene	9.112	188	295800	40.00	ppm	0.00
117) d12-Chrysene	12.364	240	220051	40.00	ppm	-0.02
135) d12-Perylene	15.290	264	255089	40.00	ppm	-0.02
System Monitoring Compounds						
7) SURR1,2-FLUOROPHENOL	3.715	112	228339	77.78	ppm	0.00
Spiked Amount 200.000	Range 10 - 105		Recovery	=	38.89%	
12) SURR2,PHENOL-D6	4.453	99	200522	58.86	ppm	0.00
Spiked Amount 200.000	Range 10 - 107		Recovery	=	29.43%	
34) SURR4,NITROBENZENE-D5	5.272	82	188967	75.61	ppm	0.00
Spiked Amount 100.000	Range 31 - 110		Recovery	=	75.61%	
63) SURR5,2-FLUOROBIPHENYL	6.978	172	437432	76.53	ppm	-0.01
Spiked Amount 100.000	Range 31 - 118		Recovery	=	76.53%	
88) SURR3,2,4,6-TRIBROMOPH...	8.422	330	141175	207.44	ppm	-0.01
Spiked Amount 200.000	Range 35 - 141		Recovery	=	103.72%	
124) SURR6,TERPHENYL-D14	10.797	244	521051	115.22	ppm	0.00
Spiked Amount 100.000	Range 30 - 133		Recovery	=	115.22%	
Target Compounds						Qvalue
25) Acetophenone	5.133	105	4966	1.12	ppm	85
39) Benzoic Acid	5.710	105	12934	12.43	ppm	81
61) 2,4,6-Trichlorophenol	6.908	196	5197	3.73	ppm #	77

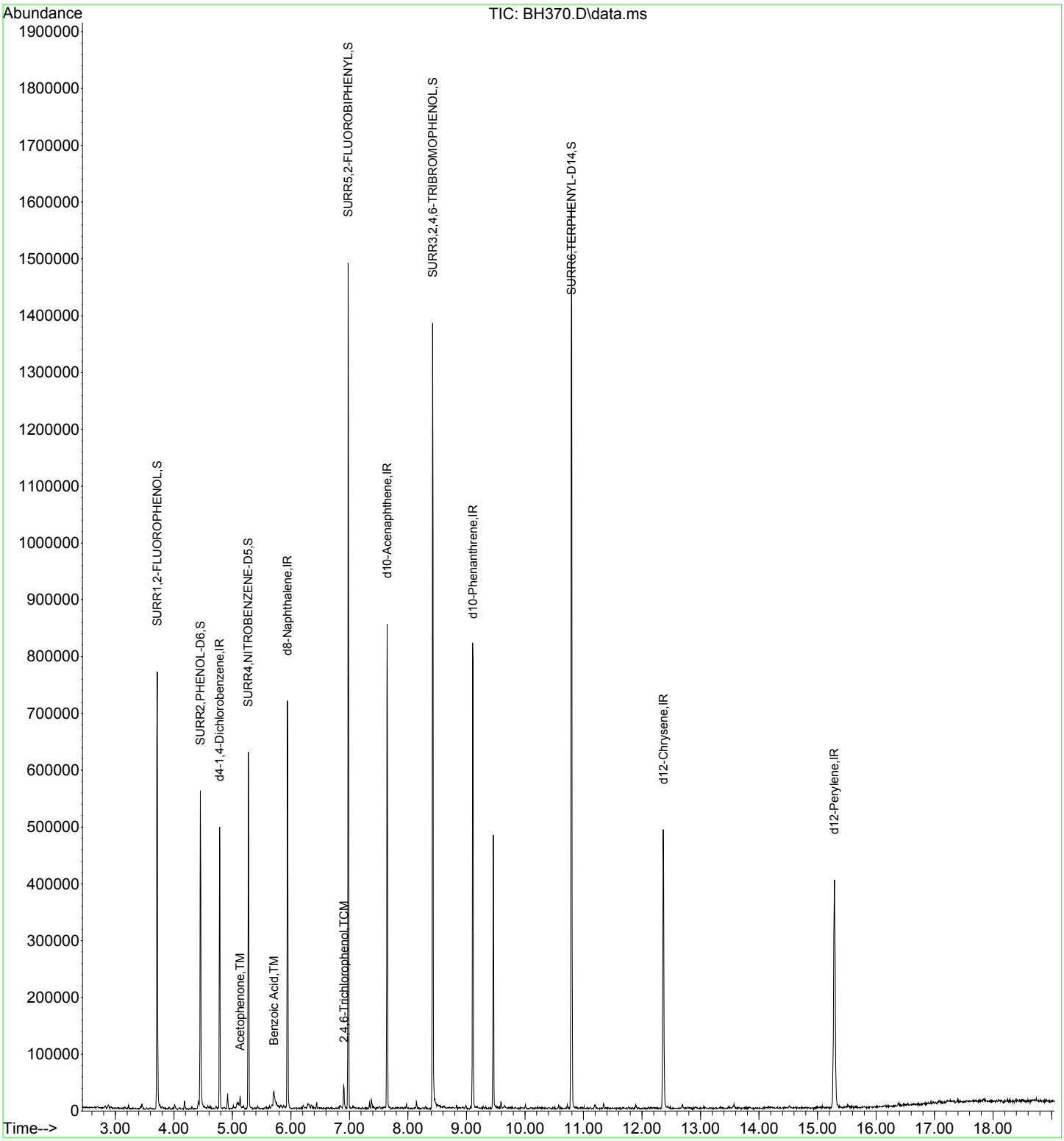
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

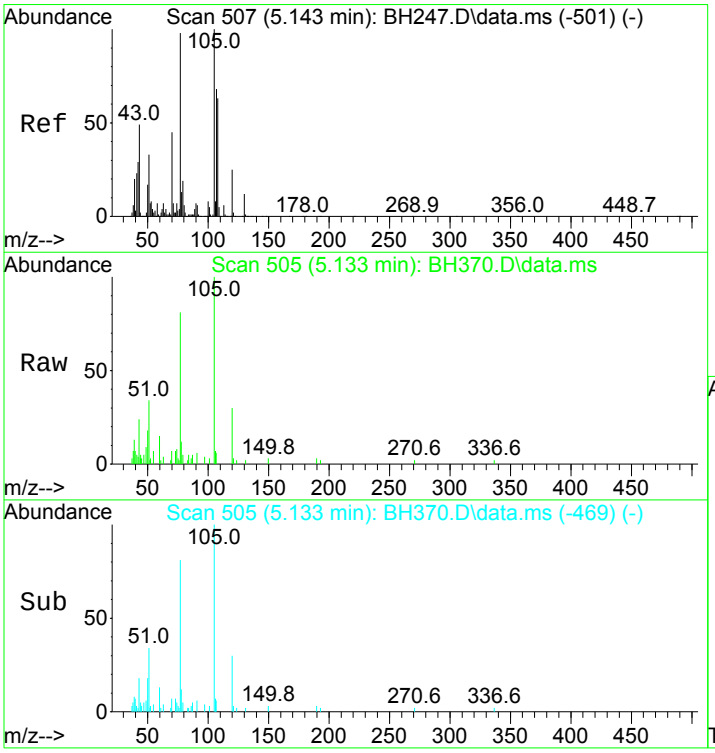
1st BA 08/08/16
2nd mwc 08/09/16

Data Path : I:\ACQUDATA\5973D\Data\080516\
Data File : BH370.D
Acq On : 5 Aug 2016 8:53 pm
Operator : BALLGEIER
Sample : R1607963-019
Misc : 267636 8/2/16 8270
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Aug 08 08:38:07 2016
Quant Method : I:\ACQUDATA\5973D\Methods\8270072816.M
Quant Title : 8270 BNA ANALYSIS
QLast Update : Fri Jul 29 08:17:04 2016
Response via : Initial Calibration



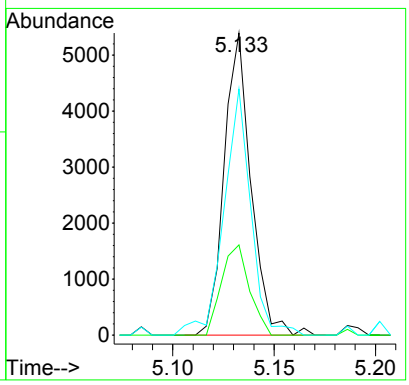
1st BA 08/08/16
2nd MW 08/09/16

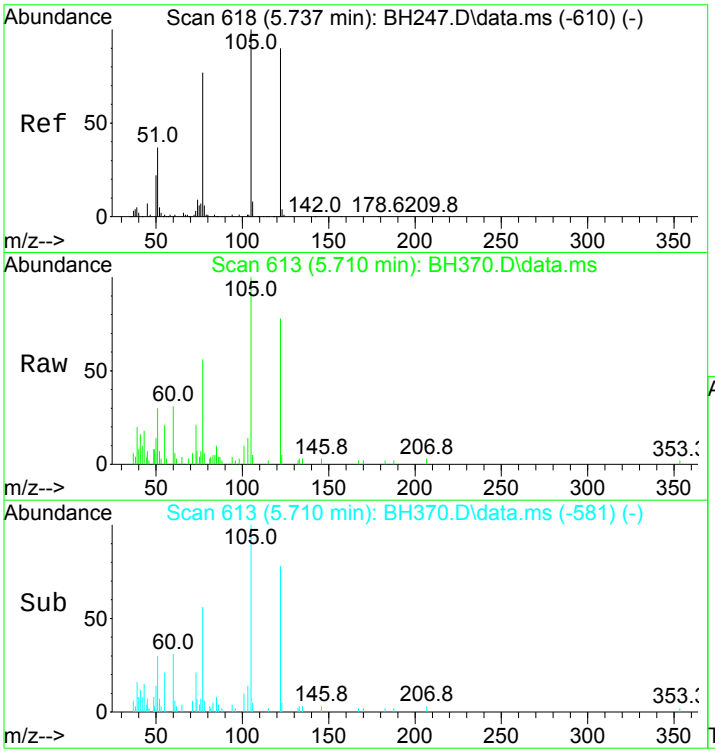


#25
Acetophenone
Concen: 1.12 ppm
RT: 5.133 min Scan# 505
Delta R.T. -0.007 min
Lab File: BH370.D
Acq: 5 Aug 2016 8:53 pm

Tgt Ion:105 Resp: 4966

Ion	Ratio	Lower	Upper
105	100		
120	29.9	17.5	32.5
77	81.4	68.5	127.3

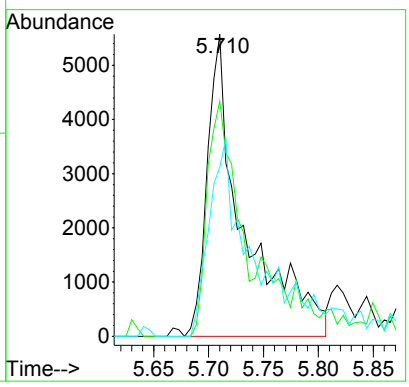




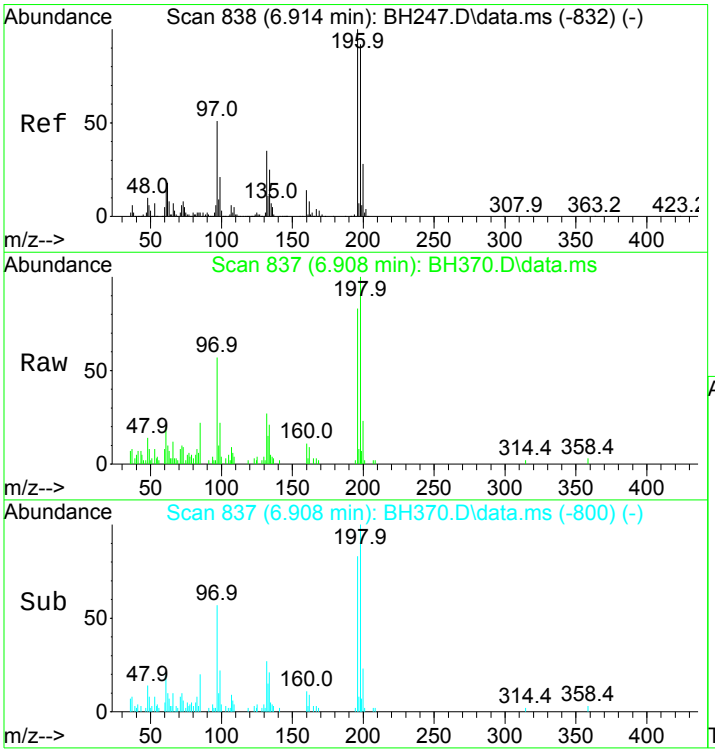
#39
Benzoic Acid
Concen: 12.43 ppm
RT: 5.710 min Scan# 613
Delta R.T. -0.030 min
Lab File: BH370.D
Acq: 5 Aug 2016 8:53 pm

Tgt Ion:105 Resp: 12934

Ion	Ratio	Lower	Upper
105	100		
122	77.8	55.8	125.8
77	55.9	42.7	112.7



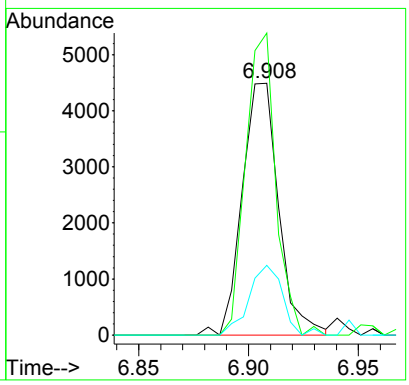
1st BA 08/08/16
2nd MW 08/09/16



#61
2,4,6-Trichlorophenol
Concen: 3.73 ppm
RT: 6.908 min Scan# 837
Delta R.T. -0.003 min
Lab File: BH370.D
Acq: 5 Aug 2016 8:53 pm

Tgt Ion:196 Resp: 5197

Ion	Ratio	Lower	Upper
196	100		
198	120.0	72.0	112.0#
200	27.7	8.4	48.4



1st BA 08/08/16
2nd MW 08/09/16

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\5973D\Data\080516\
Data File : BH362.D
Acq On : 5 Aug 2016 5:11 pm
Operator : BALLGEIER
Sample : RQ1608990-01
Misc : 267636 8/2/16 8270
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Aug 08 08:36:03 2016
Quant Method : I:\ACQUDATA\5973D\Methods\8270072816.M
Quant Title : 8270 BNA ANALYSIS
QLast Update : Fri Jul 29 08:17:04 2016
Response via : Initial Calibration

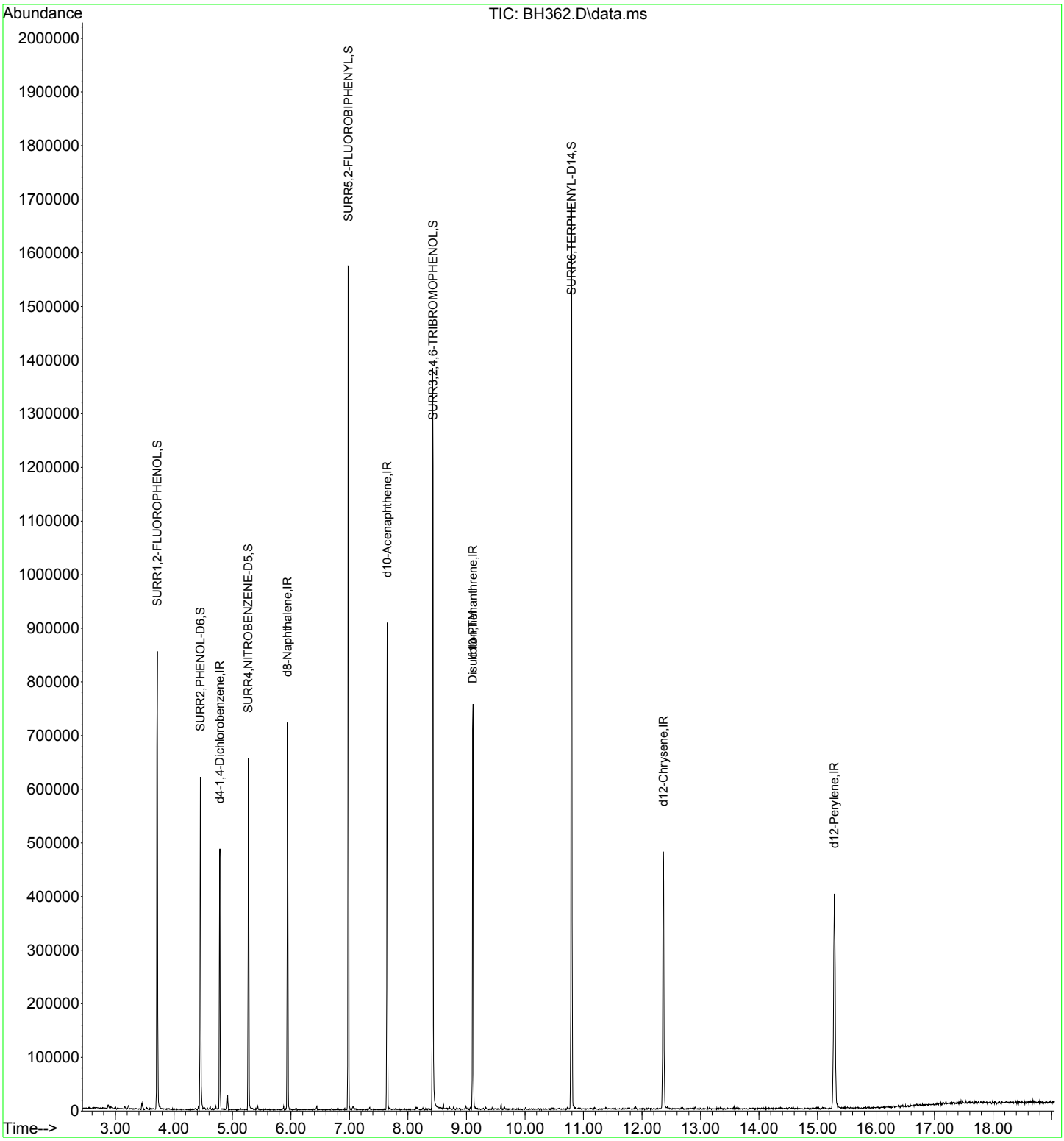
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) d4-1,4-Dichlorobenzene	4.785	152	77354	40.00	ppm	0.00
33) d8-Naphthalene	5.940	136	318341	40.00	ppm	0.00
57) d10-Acenaphthene	7.646	164	181562	40.00	ppm	0.00
91) d10-Phenanthrene	9.112	188	266650	40.00	ppm	0.00
117) d12-Chrysene	12.364	240	227572	40.00	ppm	-0.02
135) d12-Perylene	15.289	264	256912	40.00	ppm	-0.02
System Monitoring Compounds						
7) SURR1,2-FLUOROPHENOL	3.715	112	253238	87.14	ppm	0.00
Spiked Amount 200.000	Range 10 - 105		Recovery = 43.57%			
12) SURR2,PHENOL-D6	4.453	99	219881	65.20	ppm	0.00
Spiked Amount 200.000	Range 10 - 107		Recovery = 32.60%			
34) SURR4,NITROBENZENE-D5	5.271	82	205563	81.72	ppm	0.00
Spiked Amount 100.000	Range 31 - 110		Recovery = 81.72%			
63) SURR5,2-FLUOROBIPHENYL	6.983	172	479779	82.52	ppm	0.00
Spiked Amount 100.000	Range 31 - 118		Recovery = 82.52%			
88) SURR3,2,4,6-TRIBROMOPH...	8.427	330	148937	215.17	ppm	0.00
Spiked Amount 200.000	Range 35 - 141		Recovery = 107.58%			
124) SURR6,TERPHENYL-D14	10.797	244	551576	117.94	ppm	0.00
Spiked Amount 100.000	Range 30 - 133		Recovery = 117.94%			
Target Compounds						Qvalue
110) Disulfoton	9.106	88	2811	1.02	ppm	59

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

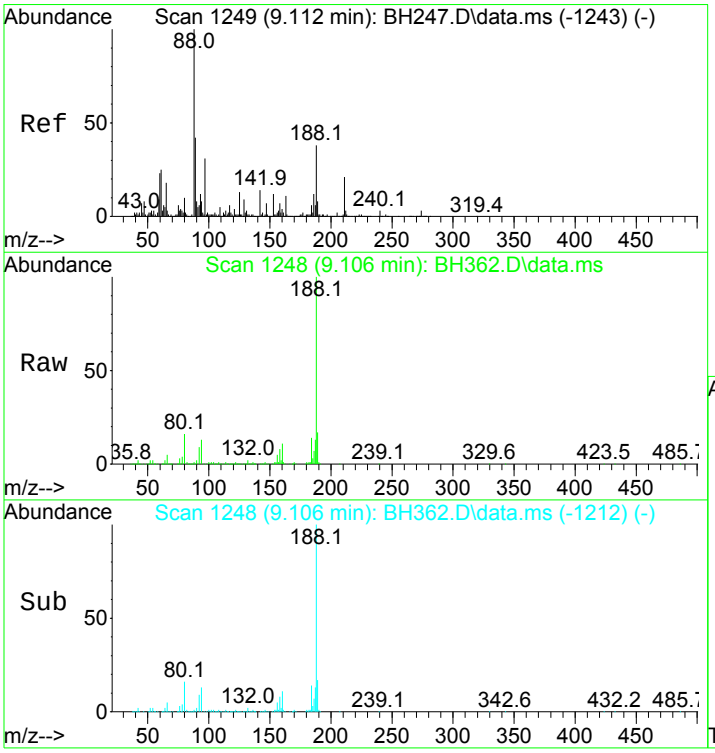
Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\5973D\Data\080516\
Data File : BH362.D
Acq On : 5 Aug 2016 5:11 pm
Operator : BALLGEIER
Sample : RQ1608990-01
Misc : 267636 8/2/16 8270
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Aug 08 08:36:03 2016
Quant Method : I:\ACQUDATA\5973D\Methods\8270072816.M
Quant Title : 8270 BNA ANALYSIS
QLast Update : Fri Jul 29 08:17:04 2016
Response via : Initial Calibration



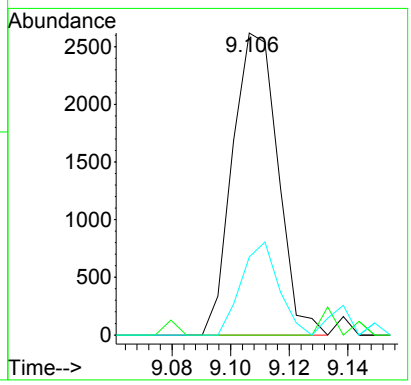
1st BA 08/08/16
2nd MW 08/09/16



#110
Disulfoton
Concen: 1.02 ppm
RT: 9.106 min Scan# 1248
Delta R.T. -0.005 min
Lab File: BH362.D
Acq: 5 Aug 2016 5:11 pm

Tgt Ion: 88 Resp: 2811

Ion	Ratio	Lower	Upper
88	100		
97	0.0	0.0	71.1
89	23.0	1.3	81.3



1st DM 08/10/16
2nd BA 08/10/16

Quantitation Report (Not Reviewed)

Data Path : I:\ACQUDATA\5973D\Data\080916\
Data File : BH405.D
Acq On : 9 Aug 2016 8:56 am
Operator : J.Misiurewicz
Sample : RQ1609061-01 Inst : 5973D
Misc : 267724 8270D SOIL BLK
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 10 09:26:58 2016
Quant Method : I:\ACQUDATA\5973D\Methods\BENZ0705D.M
Quant Title : 8270 BNA ANALYSIS
QLast Update : Tue Jul 05 12:15:19 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) d4-1,4-Dichlorobenzene	4.785	152	81451	40.00	ppm	-0.03
3) d8-Naphthalene	5.946	136	319626	40.00	ppm	-0.03
5) d10-Acenaphthene	7.646	164	183684	40.00	ppm	-0.03
6) d10-Phenanthrene	9.112	188	308853	40.00	ppm	-0.03
7) d12-Chrysene	12.364	240	260724	40.00	ppm	-0.05
8) d12-Perylene	15.290	264	273101	40.00	ppm	-0.06

Target Compounds	Qvalue

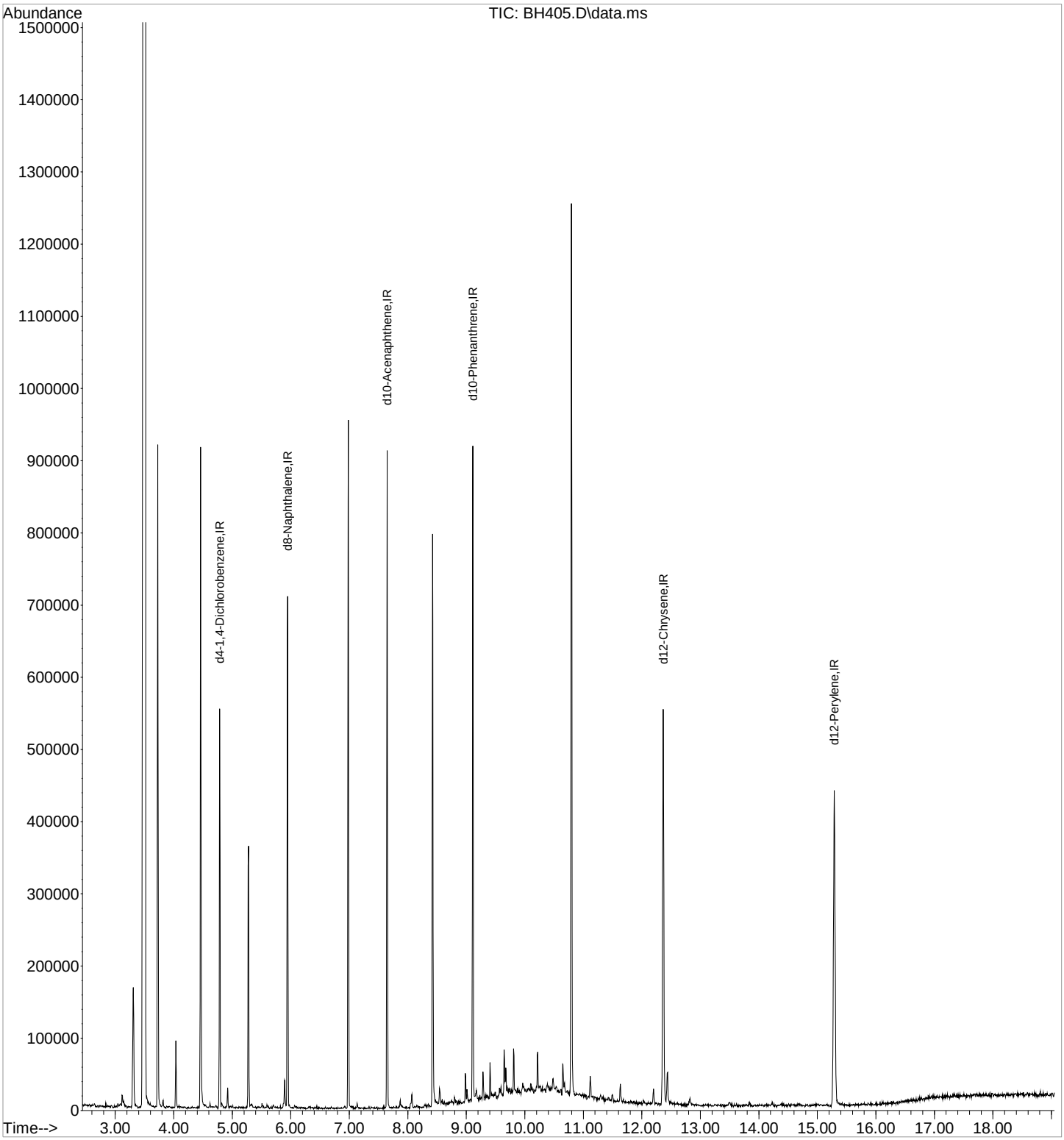
(#) = qualifier out of range (m) = manual integration (+) = signals summed

1st DM 08/10/16
2nd BA 08/10/16

Quantitation Report (Not Reviewed)

Data Path : I:\ACQUDATA\5973D\Data\080916\
Data File : BH405.D
Acq On : 9 Aug 2016 8:56 am
Operator : J.Misiurewicz
Sample : RQ1609061-01 Inst : 5973D
Misc : 267724 8270D SOIL BLK
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 10 09:26:58 2016
Quant Method : I:\ACQUDATA\5973D\Methods\BENZ0705D.M
Quant Title : 8270 BNA ANALYSIS
QLast Update : Tue Jul 05 12:15:19 2016
Response via : Initial Calibration



1st DM 08/10/16
2nd BA 08/10/16

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\5973D\Data\080916\
Data File : BH405.D
Acq On : 9 Aug 2016 8:56 am
Operator : J.Misiurewicz
Sample : RQ1609061-01 Inst : 5973D
Misc : 267724 8270D SOIL BLK
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 10 08:09:14 2016
Quant Method : I:\ACQUDATA\5973D\Methods\8270080816.M
Quant Title : 8270 BNA ANALYSIS
QLast Update : Tue Aug 09 10:29:59 2016
Response via : Initial Calibration

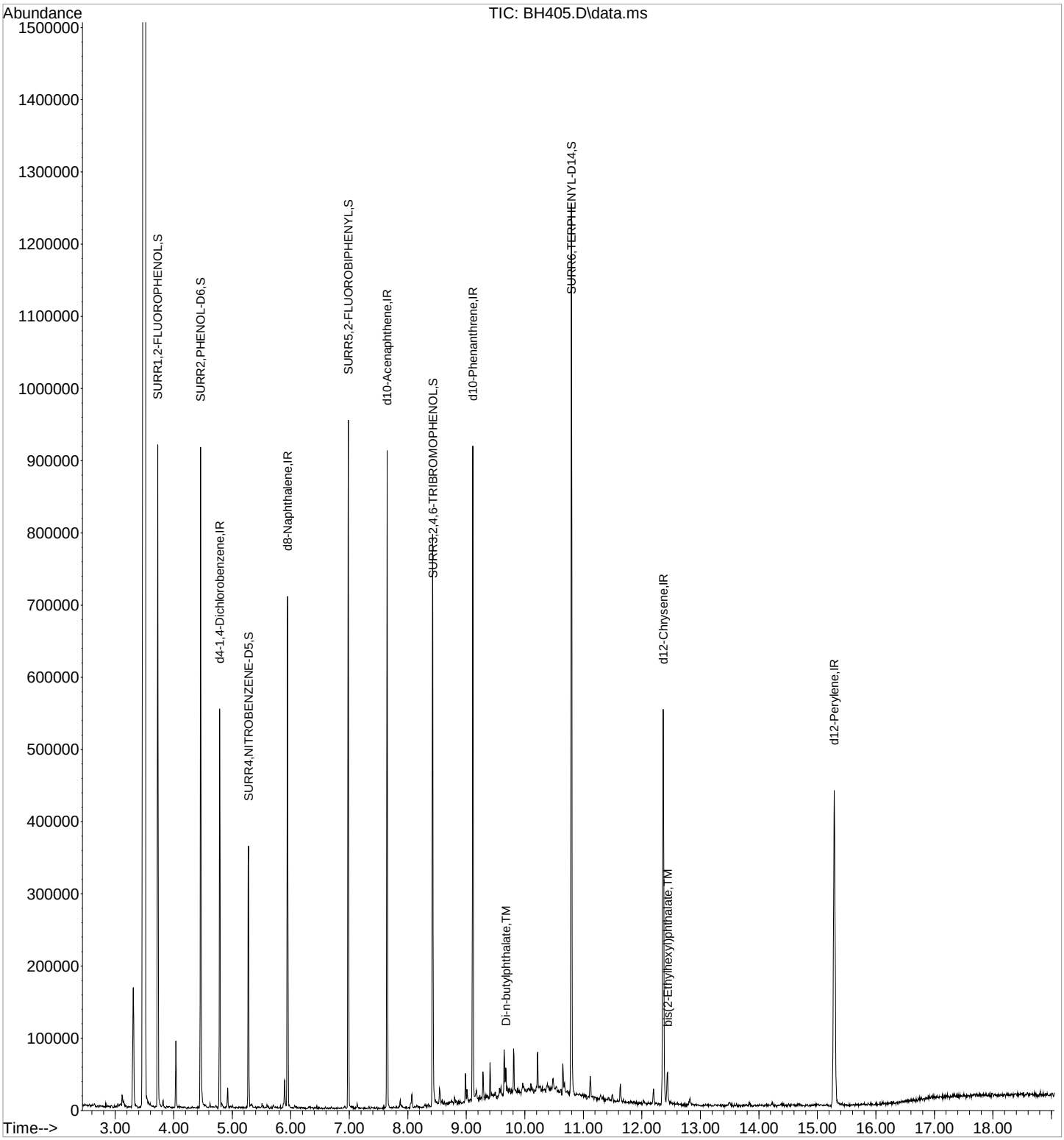
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) d4-1,4-Dichlorobenzene	4.785	152	81451	40.00	ppm	0.00
33) d8-Naphthalene	5.946	136	318884	40.00	ppm	0.00
57) d10-Acenaphthene	7.646	164	183684	40.00	ppm	0.00
91) d10-Phenanthrene	9.112	188	308853	40.00	ppm	0.00
117) d12-Chrysene	12.364	240	260724	40.00	ppm	0.00
135) d12-Perylene	15.290	264	273761	40.00	ppm	0.00
System Monitoring Compounds						
7) SURR1,2-FLUOROPHENOL	3.726	112	252540	79.87	ppm	0.00
Spiked Amount 200.000	Range 16 - 129		Recovery = 39.94%			
12) SURR2,PHENOL-D6	4.459	99	325124	88.71	ppm	0.00
Spiked Amount 200.000	Range 10 - 145		Recovery = 44.35%			
34) SURR4,NITROBENZENE-D5	5.277	82	117672	40.14	ppm	0.00
Spiked Amount 100.000	Range 10 - 95		Recovery = 40.14%			
63) SURR5,2-FLUOROBIPHENYL	6.983	172	280155	44.10	ppm	0.00
Spiked Amount 100.000	Range 10 - 102		Recovery = 44.10%			
88) SURR3,2,4,6-TRIBROMOPH...	8.427	330	84700	107.87	ppm	0.00
Spiked Amount 200.000	Range 13 - 128		Recovery = 53.94%			
124) SURR6,TERPHENYL-D14	10.797	244	404078	69.47	ppm	0.00
Spiked Amount 100.000	Range 16 - 126		Recovery = 69.47%			
Target Compounds						Qvalue
114) Di-n-butylphthalate	9.679	149	15895	1.55	ppm	92
134) bis(2-Ethylhexyl)phtha...	12.439	149	17158	2.77	ppm	97

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

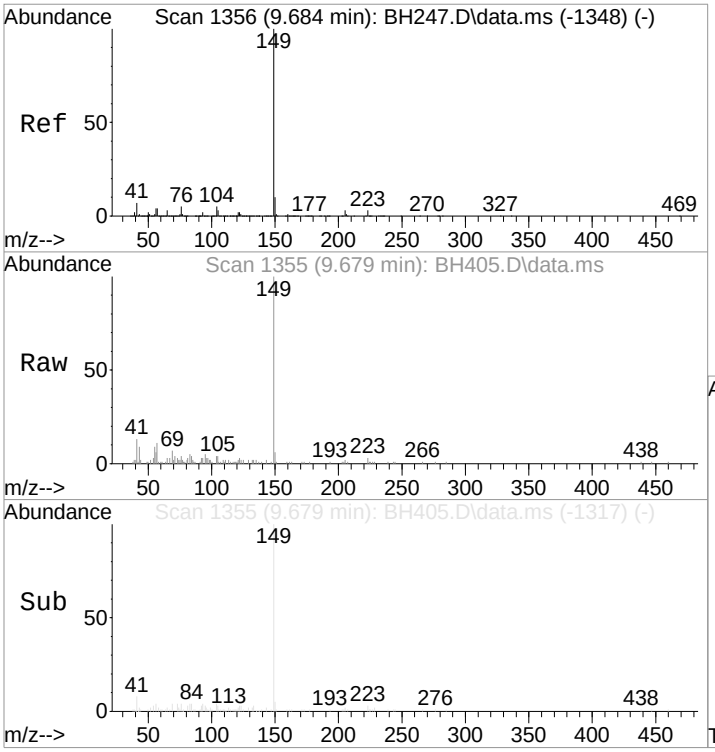
Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\5973D\Data\080916\
Data File : BH405.D
Acq On : 9 Aug 2016 8:56 am
Operator : J.Misiurewicz
Sample : RQ1609061-01 Inst : 5973D
Misc : 267724 8270D SOIL BLK
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 10 08:09:14 2016
Quant Method : I:\ACQUDATA\5973D\Methods\8270080816.M
Quant Title : 8270 BNA ANALYSIS
QLast Update : Tue Aug 09 10:29:59 2016
Response via : Initial Calibration



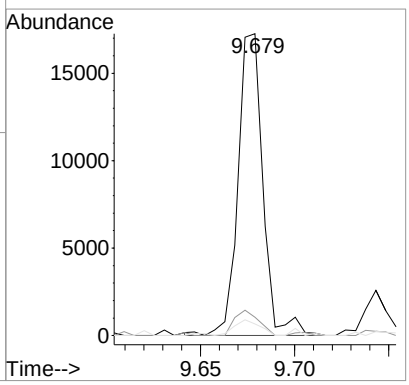
1st DM 08/10/16
2nd BA 08/10/16

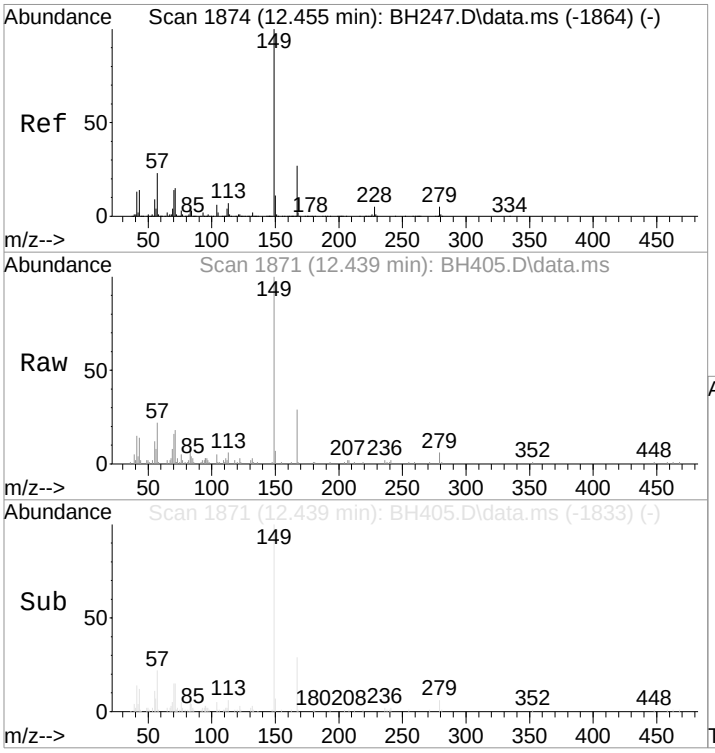


#114
Di-n-butylphthalate
Concen: 1.55 ppm
RT: 9.679 min Scan# 1355
Delta R.T. 0.002 min
Lab File: BH405.D
Acq: 9 Aug 2016 8:56 am

Tgt Ion:149 Resp: 15895

Ion	Ratio	Lower	Upper
149	100		
150	5.6	0.0	29.4
104	3.8	0.0	24.5

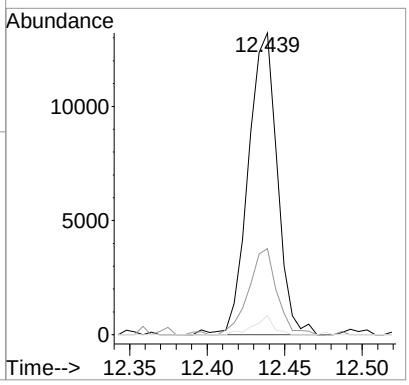




#134
bis(2-Ethylhexyl)phthalate
Concen: 2.77 ppm
RT: 12.439 min Scan# 1871
Delta R.T. 0.002 min
Lab File: BH405.D
Acq: 9 Aug 2016 8:56 am

Tgt Ion:149 Resp: 17158

Ion	Ratio	Lower	Upper
149	100		
167	28.6	6.9	46.9
279	5.9	0.0	24.9



Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\5973D\Data\080516\
Data File : BH363.D
Acq On : 5 Aug 2016 5:39 pm
Operator : BALLGEIER
Sample : RQ1608990-02
Misc : 267636 8/2/16 8270
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Aug 08 08:36:16 2016
Quant Method : I:\ACQUDATA\5973D\Methods\8270072816.M
Quant Title : 8270 BNA ANALYSIS
QLast Update : Fri Jul 29 08:17:04 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) d4-1,4-Dichlorobenzene	4.785	152	75162	40.00	ppm	0.00
33) d8-Naphthalene	5.945	136	315039	40.00	ppm	0.00
57) d10-Acenaphthene	7.646	164	176990	40.00	ppm	0.00
91) d10-Phenanthrene	9.112	188	273312	40.00	ppm	0.00
117) d12-Chrysene	12.374	240	271051	40.00	ppm	0.00
135) d12-Perylene	15.295	264	267067	40.00	ppm	-0.01
System Monitoring Compounds						
7) SURR1,2-FLUOROPHENOL	3.715	112	271487	96.14	ppm	0.00
Spiked Amount 200.000	Range 10 - 105		Recovery = 48.07%			
12) SURR2,PHENOL-D6	4.453	99	241387	73.66	ppm	0.00
Spiked Amount 200.000	Range 10 - 107		Recovery = 36.83%			
34) SURR4,NITROBENZENE-D5	5.277	82	213920	85.93	ppm	0.00
Spiked Amount 100.000	Range 31 - 110		Recovery = 85.93%			
63) SURR5,2-FLUOROBIPHENYL	6.983	172	480557	84.79	ppm	0.00
Spiked Amount 100.000	Range 31 - 118		Recovery = 84.79%			
88) SURR3,2,4,6-TRIBROMOPH...	8.427	330	136192	201.84	ppm	0.00
Spiked Amount 200.000	Range 35 - 141		Recovery = 100.92%			
124) SURR6,TERPHENYL-D14	10.797	244	547562	98.30	ppm	0.00
Spiked Amount 100.000	Range 30 - 133		Recovery = 98.30%			
Target Compounds						Qvalue
2) Pyridine	2.736	79	117727	39.46	ppm	98
3) N-Nitrosodimethylamine	2.699	74	85987	50.04	ppm	95
10) Benzaldehyde	4.416	106	169010	94.74	ppm	98
11) Aniline	4.501	93	292045	61.41	ppm	98
13) Phenol	4.469	94	136003	41.02	ppm	99
14) bis(2-Clethyl)Ether	4.544	93	218871	85.31	ppm	97
16) 2-Chlorophenol	4.608	128	239015	89.42	ppm	94
17) 1,3-Diclbenzene	4.737	146	188350	64.45	ppm	96
18) 1,4-Dichlorobenzene	4.801	146	194274	64.10	ppm	99
19) 1,2-Diclbenzene	4.935	146	185057	63.87	ppm	99
20) Benzyl Alcohol	4.897	79	167831	85.00	ppm	98
22) 2,2'-oxybis(1-Chloropr...	5.009	45	280105	77.29	ppm #	79
23) 2-Methylphenol	4.993	108	200220	80.11	ppm	88
24) 3+4-Methylphenol	5.127	108	207356	78.75	ppm	93
25) Acetophenone	5.138	105	615671	144.16	ppm	84
26) N-Nitroso-Di-n-propyla...	5.127	70	178237	79.06	ppm	83
30) Hexachloroethane	5.234	117	69426	57.41	ppm	92
32) Alpha-terpinol	5.967	121	93824	86.77	ppm	98
35) Nitrobenzene	5.293	77	239942	97.33	ppm	98
37) Isophorone	5.512	82	469648	96.15	ppm	97
38) 2-Nitrophenol	5.587	139	125372	108.34	ppm	97
40) 2,4-Dimethylphenol	5.614	107	252166	100.51	ppm	98
41) bis(-2-Chloroethoxy)Me...	5.699	93	303676	97.83	ppm	95
42) 2,4-Dichlorophenol	5.812	162	204994	102.71	ppm	98
44) 1,2,4-Trichlorobenzene	5.887	180	163439	70.03	ppm	100
45) Naphthalene	5.961	128	590884	75.80	ppm	98
46) 4-Chloroaniline	6.015	127	298470	89.79	ppm	96
48) Hexachlorobutadiene	6.074	225	95169	74.74	ppm	96
50) 4-Chloro-3-methylphenol	6.480	107	213578	100.80	ppm	93
52) Caprolactam	6.363	113	22004	24.64	ppm	91
55) 2-Methylnaphthalene	6.630	142	396888	79.93	ppm	97
56) 1-Methylnaphthalene	6.726	142	399426	84.85	ppm	98
58) Hexachlorocyclopentadiene	6.774	237	41732	47.72	ppm	98

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\5973D\Data\080516\
Data File : BH363.D
Acq On : 5 Aug 2016 5:39 pm
Operator : BALLGEIER
Sample : RQ1608990-02
Misc : 267636 8/2/16 8270
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Aug 08 08:36:16 2016
Quant Method : I:\ACQUDATA\5973D\Methods\8270072816.M
Quant Title : 8270 BNA ANALYSIS
QLast Update : Fri Jul 29 08:17:04 2016
Response via : Initial Calibration

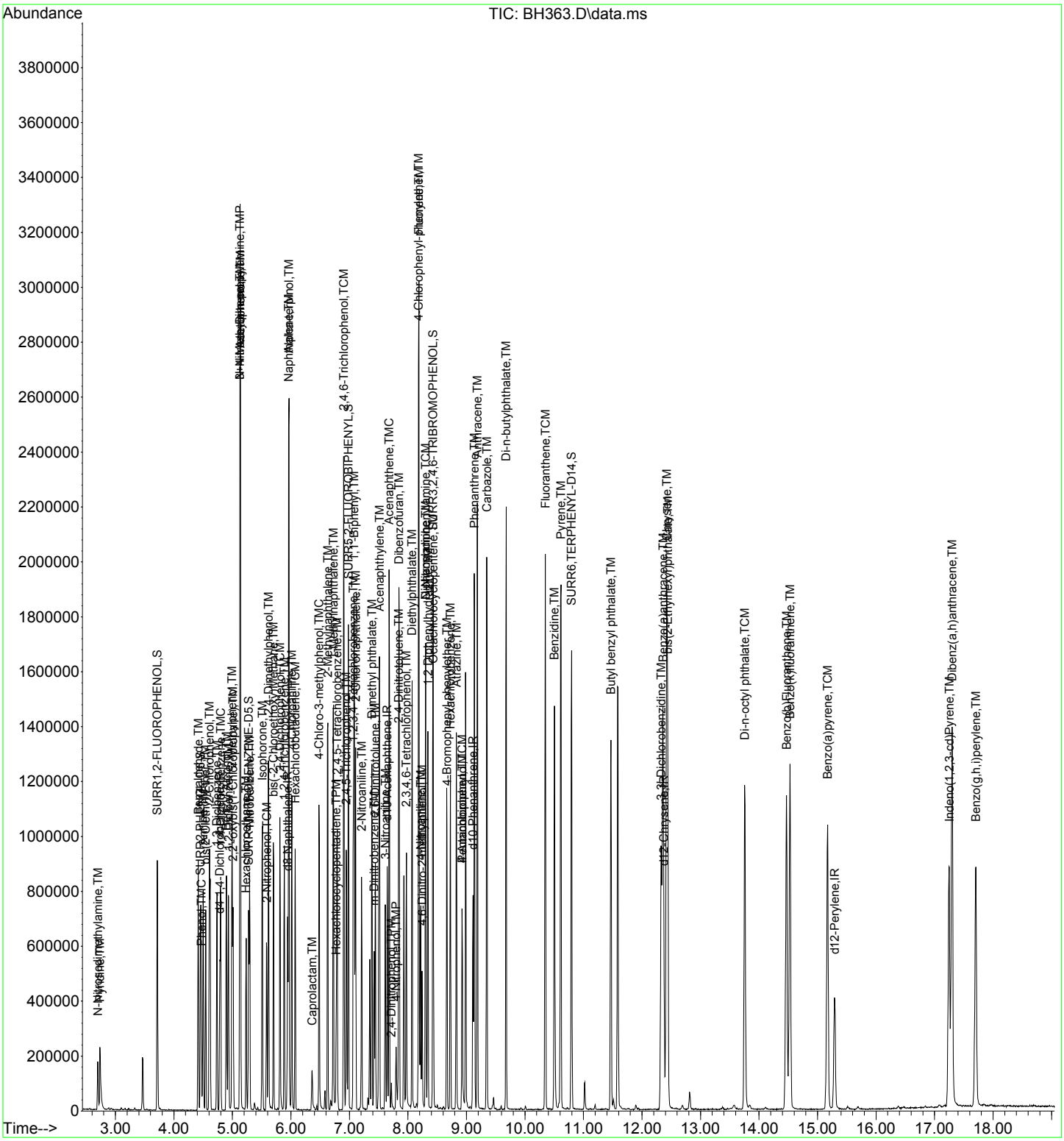
	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
59)	1,2,4,5-Tetrachloroben...	6.790	216	168868	76.64	ppm		99
60)	1,2,3,4-Tetrachloroben...	7.069	216	173417	74.16	ppm		99
61)	2,4,6-Trichlorophenol	6.903	196	145611	105.28	ppm		98
62)	2,4,5-Trichlorophenol	6.946	196	145192	101.11	ppm		94
65)	1,1'-Biphenyl	7.079	154	512447	77.78	ppm		99
66)	2-Chloronaphthalene	7.106	162	392645	78.50	ppm		98
67)	2-Nitroaniline	7.208	65	128073	100.72	ppm		90
69)	m-Dinitrobenzene	7.422	168	71291	97.10	ppm	#	64
70)	Acenaphthylene	7.513	152	680733	88.89	ppm		99
71)	Dimethyl phthalate	7.384	163	506226	98.03	ppm		100
72)	2,6-Dinitrotoluene	7.443	165	112405	110.37	ppm		98
73)	Acenaphthene	7.678	153	437020	86.41	ppm		99
74)	3-Nitroaniline	7.614	138	123578	91.62	ppm		96
75)	2,4-Dinitrophenol	7.716	184	12737	49.12	ppm		82
76)	Dibenzofuran	7.850	168	629625	92.59	ppm		100
77)	2,4-Dinitrotoluene	7.839	165	147101	104.42	ppm		96
78)	4-Nitrophenol	7.796	65	29617	37.34	ppm		94
82)	2,3,4,6-Tetrachlorophenol	7.973	232	103740	104.09	ppm		98
83)	Fluorene	8.187	166	502303	89.85	ppm		99
84)	4-Chlorophenyl-phenyle...	8.181	204	233370	91.76	ppm		97
85)	Diethylphthalate	8.069	149	544476	100.92	ppm		100
86)	4-Nitroaniline	8.219	138	148829	102.23	ppm		94
90)	Octachlorocyclopentene	8.433	307	60054	82.15	ppm		90
93)	4,6-Dinitro-2-methylph...	8.240	198	65166	109.65	ppm		79
94)	Diphenylamine	8.304	169	433661	96.59	ppm		99
95)	1,2 Diphenylhydrazine	8.342	77	509986	88.06	ppm		97
96)	N-Nitrosodiphenylamine	8.304	169	433661	96.59	ppm		99
101)	4-Bromophenyl-phenylether	8.668	248	129466	95.30	ppm		93
102)	Hexachlorobenzene	8.727	284	149409	96.90	ppm		92
104)	Atrazine	8.828	215	74239	117.33	ppm		93
105)	Pentachlorophenol	8.925	266	88243	136.91	ppm		95
106)	4-Aminobiphenyl	8.925	169	12150	2.27	ppm		94
111)	Phenanthrene	9.133	178	723899	100.12	ppm		100
112)	Anthracene	9.187	178	767489	105.90	ppm		99
113)	Carbazole	9.347	167	789855	102.77	ppm		99
114)	Di-n-butylphthalate	9.679	149	1023014	117.98	ppm		99
116)	Fluoranthene	10.347	202	817957	106.16	ppm		99
122)	Benzidine	10.502	184	610437	109.54	ppm		97
123)	Pyrene	10.615	202	873634	102.10	ppm		98
128)	Butyl benzyl phthalate	11.471	149	419377	97.03	ppm		98
131)	3,3'-Dichlorobenzidine	12.326	252	269160	88.80	ppm		97
132)	Benzo(a)anthracene	12.358	228	801498	103.95	ppm		100
133)	Chrysene	12.423	228	784242	106.39	ppm		99
134)	bis(2-Ethylhexyl)phtha...	12.439	149	616933	100.14	ppm		100
136)	Di-n-octyl phthalate	13.754	149	1017779	97.05	ppm		99
138)	Benzo(b)Fluoranthene	14.471	252	774107	100.55	ppm		92
139)	Benzo(k)fluoranthene	14.530	252	764118	106.60	ppm		97
140)	Benzo(a)pyrene	15.172	252	684172	103.46	ppm		95
142)	Indeno(1,2,3-cd)Pyrene	17.252	276	596989	114.27	ppm		91
143)	Dibenz(a,h)anthracene	17.301	278	877714	146.99	ppm		98
144)	Benzo(g,h,i)perylene	17.707	276	589497	112.55	ppm		97

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

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\5973D\Data\080516\
Data File : BH363.D
Acq On : 5 Aug 2016 5:39 pm
Operator : BALLGEIER
Sample : RQ1608990-02
Misc : 267636 8/2/16 8270
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Aug 08 08:36:16 2016
Quant Method : I:\ACQUDATA\5973D\Methods\8270072816.M
Quant Title : 8270 BNA ANALYSIS
QLast Update : Fri Jul 29 08:17:04 2016
Response via : Initial Calibration



1st BA 08/08/16
2nd MW 08/09/16

Quantitation Report (QT Reviewed)

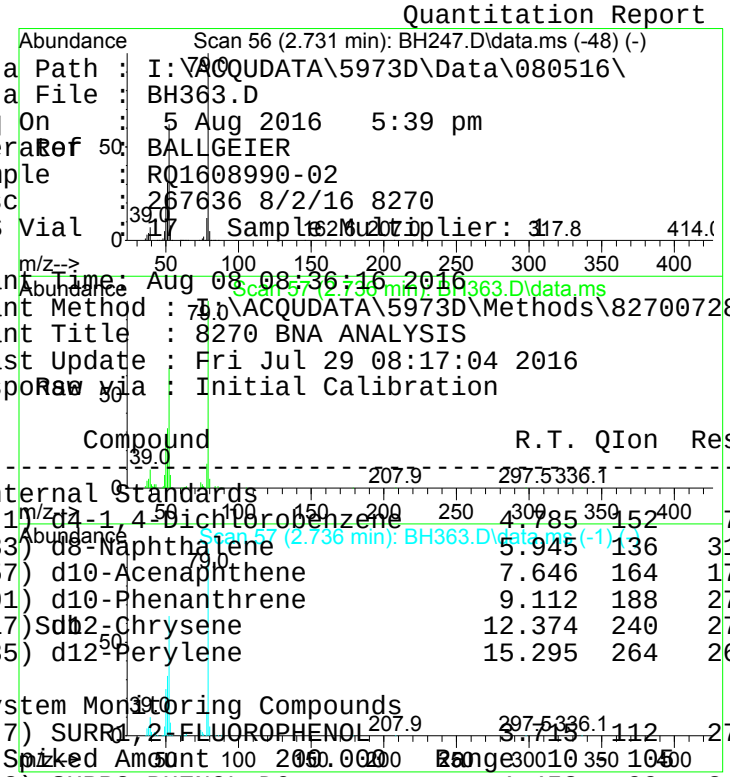
Data Path : I:\ACQUDATA\5973D\Data\080516\
Data File : BH363.D
Acq On : 5 Aug 2016 5:39 pm
Operator : BALLGEIER
Sample : RQ1608990-02
Misc : 267636 8/2/16 8270
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Aug 08 08:36:16 2016
Quant Method : I:\ACQUDATA\5973D\Methods\8270072816.M
Quant Title : 8270 BNA ANALYSIS
QLast Update : Fri Jul 29 08:17:04 2016
Response via : Initial Calibration

#2
Pyridine
Concen: 39.46 ppm
RT: 2.736 min Scan# 57
Delta R.T. -0.002 min
Lab File: BH363.D
Acq: 5 Aug 2016 5:39 pm

Tgt Ion: 79 Resp: 117727

Ion	Ratio	Lower	Upper
79M	100		
52	63.8	31.7	91.7
50	25.0	0.0	54.1



	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
	Internal Standards						
1)	d4-1,4-Dichlorobenzene	4.785	152	75162	40.00	ppm	0.00
33)	d8-Naphthalene	5.945	136	315039	40.00	ppm	0.00
57)	d10-Acenaphthene	7.646	164	176990	40.00	ppm	0.00
91)	d10-Phenanthrene	9.112	188	273312	40.00	ppm	0.00
117)	d12-Chrysene	12.374	240	271051	40.00	ppm	0.00
135)	d12-Perylene	15.295	264	267067	40.00	ppm	-0.01
	System Monitoring Compounds						
7)	SURR1,2-FLUOROPHENOL	3.715	112	271487	96.14	ppm	0.00
	Spiked Amount 200.000 Range 20 - 100 Recovery = 48.07%						
12)	SURR2,PHENOL-D6	4.453	99	241387	73.66	ppm	0.00
	Spiked Amount 200.000 Range 10 - 107 Recovery = 36.83%						
34)	SURR4,NITROBENZENE-D5	5.277	82	213920	85.93	ppm	0.00
	Spiked Amount 100.000 Range 31 - 110 Recovery = 85.93%						
63)	SURR5,2-FLUOROBIPHENYL	6.983	172	480557	84.79	ppm	0.00
	Spiked Amount 100.000 Range 31 - 118 Recovery = 84.79%						
88)	SURR3,2,4,6-TRIBROMOPH...	8.427	330	136192	201.84	ppm	0.00
	Spiked Amount 200.000 Range 35 - 141 Recovery = 100.92%						
124)	SURR6,TERPHENYL-D14	10.797	244	547562	98.30	ppm	0.00
	Spiked Amount 100.000 Range 30 - 133 Recovery = 98.30%						

	Target Compounds							Qvalue
2)	Pyridine	2.736	79	117727	39.46	ppm		98
3)	N-Nitrosodimethylamine	2.699	74	85987	50.04	ppm		95
10)	Benzaldehyde	4.416	106	169010	94.74	ppm		98
11)	Aniline	4.501	93	292045	61.41	ppm		98
13)	Phenol	4.469	94	136003	41.02	ppm		99
14)	bis(2-Clethyl)Ether	4.544	93	218871	85.31	ppm		97
16)	2-Chlorophenol	4.608	128	239015	89.42	ppm		94
17)	1,3-Diclbenzene	4.737	146	188350	64.45	ppm		96
18)	1,4-Dichlorobenzene	4.801	146	194274	64.10	ppm		99
19)	1,2-Diclbenzene	4.935	146	185057	63.87	ppm		99
20)	Benzyl Alcohol	4.897	79	167831	85.00	ppm		98
22)	2,2'-oxybis(1-Chloropr...	5.009	45	280105	77.29	ppm	#	79
23)	2-Methylphenol	4.993	108	200220	80.11	ppm		88
24)	3+4-Methylphenol	5.127	108	207356	78.75	ppm		93
25)	Acetophenone	5.138	105	615671	144.16	ppm		84
26)	N-Nitroso-Di-n-propyla...	5.127	70	178237	79.06	ppm		83
30)	Hexachloroethane	5.234	117	69426	57.41	ppm		92
32)	Alpha-terpinol	5.967	121	93824	86.77	ppm		98
35)	Nitrobenzene	5.293	77	239942	97.33	ppm		98
37)	Isophorone	5.512	82	469648	96.15	ppm		97
38)	2-Nitrophenol	5.587	139	125372	108.34	ppm		97
40)	2,4-Dimethylphenol	5.614	107	252166	100.51	ppm		98
41)	bis(-2-Chloroethoxy)Me...	5.699	93	303676	97.83	ppm		95
42)	2,4-Dichlorophenol	5.812	162	204994	102.71	ppm		98
44)	1,2,4-Trichlorobenzene	5.887	180	163439	70.03	ppm		100
45)	Naphthalene	5.961	128	590884	75.80	ppm		98
46)	4-Chloroaniline	6.015	127	298470	89.79	ppm		96
48)	Hexachlorobutadiene	6.074	225	95169	74.74	ppm		96
50)	4-Chloro-3-methylphenol	6.480	107	213578	100.80	ppm		93
52)	Caprolactam	6.363	113	22004	24.64	ppm		91
55)	2-Methylnaphthalene	6.630	142	396888	79.93	ppm		97
56)	1-Methylnaphthalene	6.726	142	399426	84.85	ppm		98
58)	Hexachlorocyclopentadiene	6.774	237	41732	47.72	ppm		98

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\5973D\Data\080516\
Data File : BH363.D
Acq On : 5 Aug 2016 5:39 pm
Operator : BALLGEIER
Sample : RQ1608990-02
Misc : 267636 8/2/16 8270
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Aug 08 08:36:16 2016
Quant Method : I:\ACQUDATA\5973D\Methods\8270072816.M
Quant Title : 8270 BNA ANALYSIS
QLast Update : Fri Jul 29 08:17:04 2016
Response via : Initial Calibration

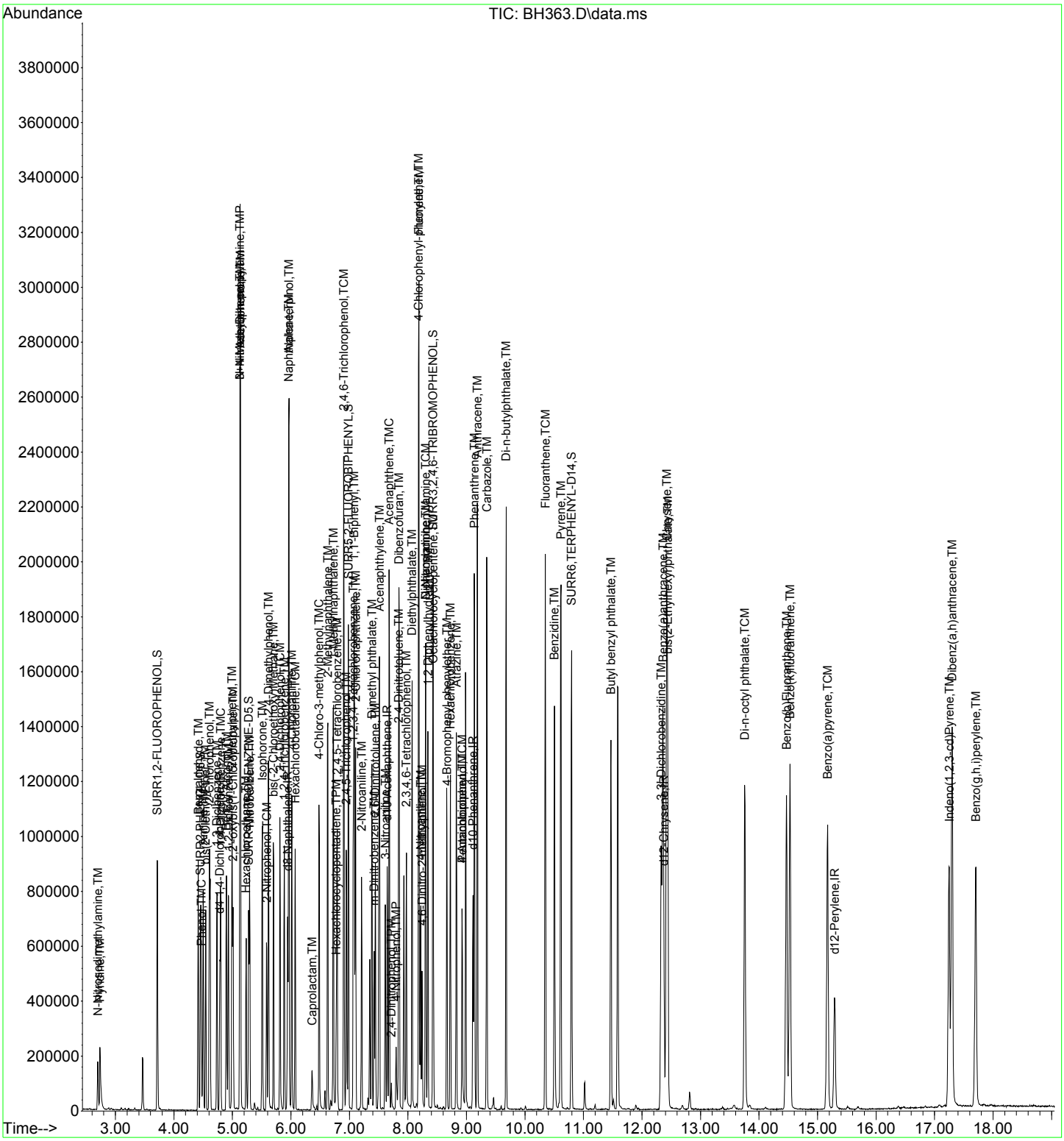
	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
59)	1,2,4,5-Tetrachloroben...	6.790	216	168868	76.64	ppm		99
60)	1,2,3,4-Tetrachloroben...	7.069	216	173417	74.16	ppm		99
61)	2,4,6-Trichlorophenol	6.903	196	145611	105.28	ppm		98
62)	2,4,5-Trichlorophenol	6.946	196	145192	101.11	ppm		94
65)	1,1'-Biphenyl	7.079	154	512447	77.78	ppm		99
66)	2-Chloronaphthalene	7.106	162	392645	78.50	ppm		98
67)	2-Nitroaniline	7.208	65	128073	100.72	ppm		90
69)	m-Dinitrobenzene	7.422	168	71291	97.10	ppm	#	64
70)	Acenaphthylene	7.513	152	680733	88.89	ppm		99
71)	Dimethyl phthalate	7.384	163	506226	98.03	ppm		100
72)	2,6-Dinitrotoluene	7.443	165	112405	110.37	ppm		98
73)	Acenaphthene	7.678	153	437020	86.41	ppm		99
74)	3-Nitroaniline	7.614	138	123578	91.62	ppm		96
75)	2,4-Dinitrophenol	7.716	184	12737	49.12	ppm		82
76)	Dibenzofuran	7.850	168	629625	92.59	ppm		100
77)	2,4-Dinitrotoluene	7.839	165	147101	104.42	ppm		96
78)	4-Nitrophenol	7.796	65	29617	37.34	ppm		94
82)	2,3,4,6-Tetrachlorophenol	7.973	232	103740	104.09	ppm		98
83)	Fluorene	8.187	166	502303	89.85	ppm		99
84)	4-Chlorophenyl-phenyle...	8.181	204	233370	91.76	ppm		97
85)	Diethylphthalate	8.069	149	544476	100.92	ppm		100
86)	4-Nitroaniline	8.219	138	148829	102.23	ppm		94
90)	Octachlorocyclopentene	8.433	307	60054	82.15	ppm		90
93)	4,6-Dinitro-2-methylph...	8.240	198	65166	109.65	ppm		79
94)	Diphenylamine	8.304	169	433661	96.59	ppm		99
95)	1,2 Diphenylhydrazine	8.342	77	509986	88.06	ppm		97
96)	N-Nitrosodiphenylamine	8.304	169	433661	96.59	ppm		99
101)	4-Bromophenyl-phenylether	8.668	248	129466	95.30	ppm		93
102)	Hexachlorobenzene	8.727	284	149409	96.90	ppm		92
104)	Atrazine	8.828	215	74239	117.33	ppm		93
105)	Pentachlorophenol	8.925	266	88243	136.91	ppm		95
106)	4-Aminobiphenyl	8.925	169	12150	2.27	ppm		94
111)	Phenanthrene	9.133	178	723899	100.12	ppm		100
112)	Anthracene	9.187	178	767489	105.90	ppm		99
113)	Carbazole	9.347	167	789855	102.77	ppm		99
114)	Di-n-butylphthalate	9.679	149	1023014	117.98	ppm		99
116)	Fluoranthene	10.347	202	817957	106.16	ppm		99
122)	Benzidine	10.502	184	610437	109.54	ppm		97
123)	Pyrene	10.615	202	873634	102.10	ppm		98
128)	Butyl benzyl phthalate	11.471	149	419377	97.03	ppm		98
131)	3,3'-Dichlorobenzidine	12.326	252	269160	88.80	ppm		97
132)	Benzo(a)anthracene	12.358	228	801498	103.95	ppm		100
133)	Chrysene	12.423	228	784242	106.39	ppm		99
134)	bis(2-Ethylhexyl)phtha...	12.439	149	616933	100.14	ppm		100
136)	Di-n-octyl phthalate	13.754	149	1017779	97.05	ppm		99
138)	Benzo(b)Fluoranthene	14.471	252	774107	100.55	ppm		92
139)	Benzo(k)fluoranthene	14.530	252	764118	106.60	ppm		97
140)	Benzo(a)pyrene	15.172	252	684172	103.46	ppm		95
142)	Indeno(1,2,3-cd)Pyrene	17.252	276	596989	114.27	ppm		91
143)	Dibenz(a,h)anthracene	17.301	278	877714	146.99	ppm		98
144)	Benzo(g,h,i)perylene	17.707	276	589497	112.55	ppm		97

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

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\5973D\Data\080516\
Data File : BH363.D
Acq On : 5 Aug 2016 5:39 pm
Operator : BALLGEIER
Sample : RQ1608990-02
Misc : 267636 8/2/16 8270
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Aug 08 08:36:16 2016
Quant Method : I:\ACQUDATA\5973D\Methods\8270072816.M
Quant Title : 8270 BNA ANALYSIS
QLast Update : Fri Jul 29 08:17:04 2016
Response via : Initial Calibration



1st DM 08/10/16
2nd BA 08/10/16

Quantitation Report (Not Reviewed)

Data Path : I:\ACQUDATA\5973D\Data\080916\
Data File : BH406.D
Acq On : 9 Aug 2016 9:24 am
Operator : J.Misiurewicz
Sample : RQ1609061-02 Inst : 5973D
Misc : 267724 8270D SOIL LCS
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 10 09:27:01 2016
Quant Method : I:\ACQUDATA\5973D\Methods\BENZ0705D.M
Quant Title : 8270 BNA ANALYSIS
QLast Update : Tue Jul 05 12:15:19 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) d4-1,4-Dichlorobenzene	4.785	152	82925	40.00 ppm	-0.03
3) d8-Naphthalene	5.940	136	386420	40.00 ppm	-0.03
5) d10-Acenaphthene	7.647	164	199918	40.00 ppm	-0.03
6) d10-Phenanthrene	9.112	188	289963	40.00 ppm	-0.03
7) d12-Chrysene	12.369	240	299978	40.00 ppm	-0.05
8) d12-Perylene	15.290	264	296270	40.00 ppm	-0.06
Target Compounds					Qvalue
2) Benzaldehyde	4.416	106	84972	41.37 ppm	94
4) Benzoic Acid	5.716	105	60270	31.85 ppm	92

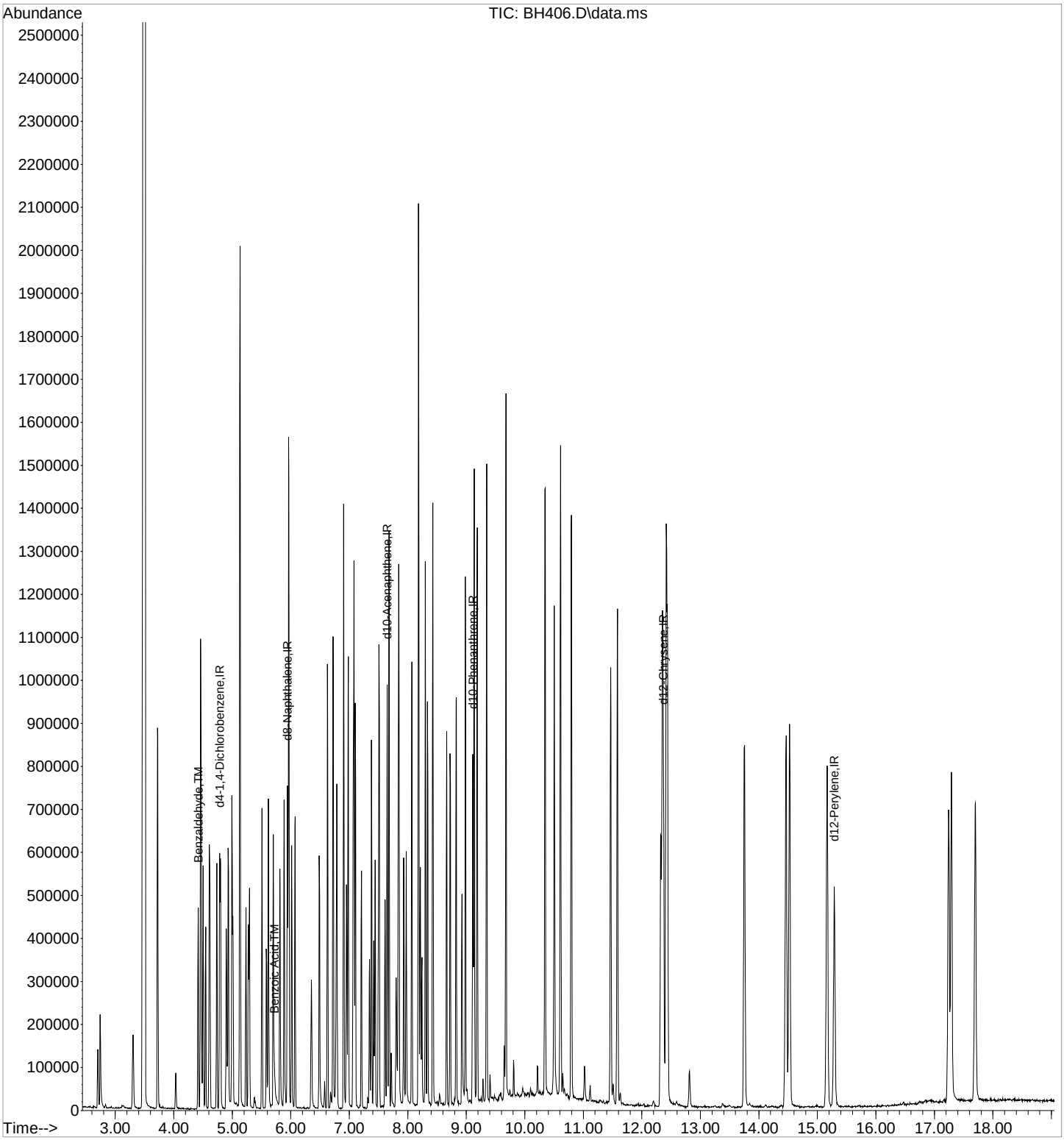
(#) = qualifier out of range (m) = manual integration (+) = signals summed

1st DM 08/10/16
2nd BA 08/10/16

Quantitation Report (Not Reviewed)

Data Path : I:\ACQUDATA\5973D\Data\080916\
Data File : BH406.D
Acq On : 9 Aug 2016 9:24 am
Operator : J.Misiurewicz
Sample : RQ1609061-02 Inst : 5973D
Misc : 267724 8270D SOIL LCS
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 10 09:27:01 2016
Quant Method : I:\ACQUDATA\5973D\Methods\BENZ0705D.M
Quant Title : 8270 BNA ANALYSIS
QLast Update : Tue Jul 05 12:15:19 2016
Response via : Initial Calibration



1st DM 08/10/16
2nd BA 08/10/16

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\5973D\Data\080916\
Data File : BH406.D
Acq On : 9 Aug 2016 9:24 am
Operator : J.Misiurewicz
Sample : RQ1609061-02 Inst : 5973D
Misc : 267724 8270D SOIL LCS
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 10 08:11:57 2016
Quant Method : I:\ACQUDATA\5973D\Methods\8270080816.M
Quant Title : 8270 BNA ANALYSIS
QLast Update : Tue Aug 09 10:29:59 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) d4-1,4-Dichlorobenzene	4.785	152	82925	40.00	ppm		0.00
33) d8-Naphthalene	5.940	136	349886	40.00	ppm		0.00
57) d10-Acenaphthene	7.647	164	199918	40.00	ppm		0.00
91) d10-Phenanthrene	9.112	188	289963	40.00	ppm		0.00
117) d12-Chrysene	12.369	240	299978	40.00	ppm		0.00
135) d12-Perylene	15.290	264	296307	40.00	ppm		0.00
System Monitoring Compounds							
7) SURR1,2-FLUOROPHENOL	3.726	112	273903	85.09	ppm		0.00
Spiked Amount 200.000	Range 16 - 129		Recovery = 42.55%				
12) SURR2,PHENOL-D6	4.459	99	352139	94.38	ppm		0.00
Spiked Amount 200.000	Range 10 - 145		Recovery = 47.19%				
34) SURR4,NITROBENZENE-D5	5.277	82	131737	40.96	ppm		0.00
Spiked Amount 100.000	Range 10 - 95		Recovery = 40.96%				
63) SURR5,2-FLUOROBIPHENYL	6.983	172	297700	43.06	ppm		0.00
Spiked Amount 100.000	Range 10 - 102		Recovery = 43.06%				
88) SURR3,2,4,6-TRIBROMOPH...	8.427	330	98009	114.68	ppm		0.00
Spiked Amount 200.000	Range 13 - 128		Recovery = 57.34%				
124) SURR6,TERPHENYL-D14	10.797	244	459262	68.63	ppm		0.00
Spiked Amount 100.000	Range 16 - 126		Recovery = 68.63%				
Target Compounds							Qvalue
2) Pyridine	2.742	79	90131	27.23	ppm		99
3) N-Nitrosodimethylamine	2.699	74	67496	35.38	ppm		97
10) Benzaldehyde	~~4.416~~	~~106~~	~~84972~~	~~74.49~~	~~ppm~~		~~98~~
11) Aniline	4.502	93	201656	38.44	ppm		90
13) Phenol	4.469	94	179341	47.29	ppm		92
14) bis(2-Clethyl)Ether	4.544	93	128006	43.41	ppm		95
16) 2-Chlorophenol	4.609	128	146111	46.78	ppm		97
17) 1,3-Diclbenzene	4.737	146	131361	37.83	ppm		96
18) 1,4-Dichlorobenzene	4.801	146	137145	39.26	ppm		96
19) 1,2-Diclbenzene	4.929	146	136679	40.53	ppm		96
20) Benzyl Alcohol	4.897	79	98503	46.74	ppm		92
22) 2,2'-oxybis(1-Chloropr...	5.010	45	165962	41.62	ppm	#	71
23) 2-Methylphenol	4.994	108	129661	45.24	ppm		93
24) 3+4-Methylphenol	5.133	108	146931	47.33	ppm		82
25) Acetophenone	5.133	105	335870	72.03	ppm		96
26) N-Nitroso-Di-n-propyla...	5.127	70	98711	41.72	ppm	#	76
30) Hexachloroethane	5.234	117	53620	37.57	ppm		98
32) Alpha-terpinol	5.967	121	54330	45.81	ppm		98
35) Nitrobenzene	5.293	77	140191	44.70	ppm		99
37) Isophorone	5.507	82	265617	46.76	ppm		99
38) 2-Nitrophenol	5.582	139	74230	45.31	ppm		95
40) 2,4-Dimethylphenol	5.614	107	145551	49.59	ppm		98
41) bis(-2-Chloroethoxy)Me...	5.700	93	171418	46.25	ppm		99
42) 2,4-Dichlorophenol	5.812	162	116994	47.88	ppm		96
44) 1,2,4-Trichlorobenzene	5.887	180	117741	41.75	ppm		97
45) Naphthalene	5.962	128	402147	43.47	ppm		99
46) 4-Chloroaniline	6.015	127	174781	45.07	ppm		97
48) Hexachlorobutadiene	6.074	225	71580	46.23	ppm		99
50) 4-Chloro-3-methylphenol	6.486	107	127118	50.67	ppm		97
52) Caprolactam	6.352	113	44286	47.95	ppm		92
55) 2-Methylnaphthalene	6.625	142	274755	45.46	ppm		98
56) 1-Methylnaphthalene	6.721	142	278479	49.28	ppm		99
58) Hexachlorocyclopentadiene	6.775	237	36846	35.85	ppm		99

1st DM 08/10/16
2nd BA 08/10/16

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\5973D\Data\080916\
Data File : BH406.D
Acq On : 9 Aug 2016 9:24 am
Operator : J.Misiurewicz
Sample : RQ1609061-02 Inst : 5973D
Misc : 267724 8270D SOIL LCS
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 10 08:11:57 2016
Quant Method : I:\ACQUDATA\5973D\Methods\8270080816.M
Quant Title : 8270 BNA ANALYSIS
QLast Update : Tue Aug 09 10:29:59 2016
Response via : Initial Calibration

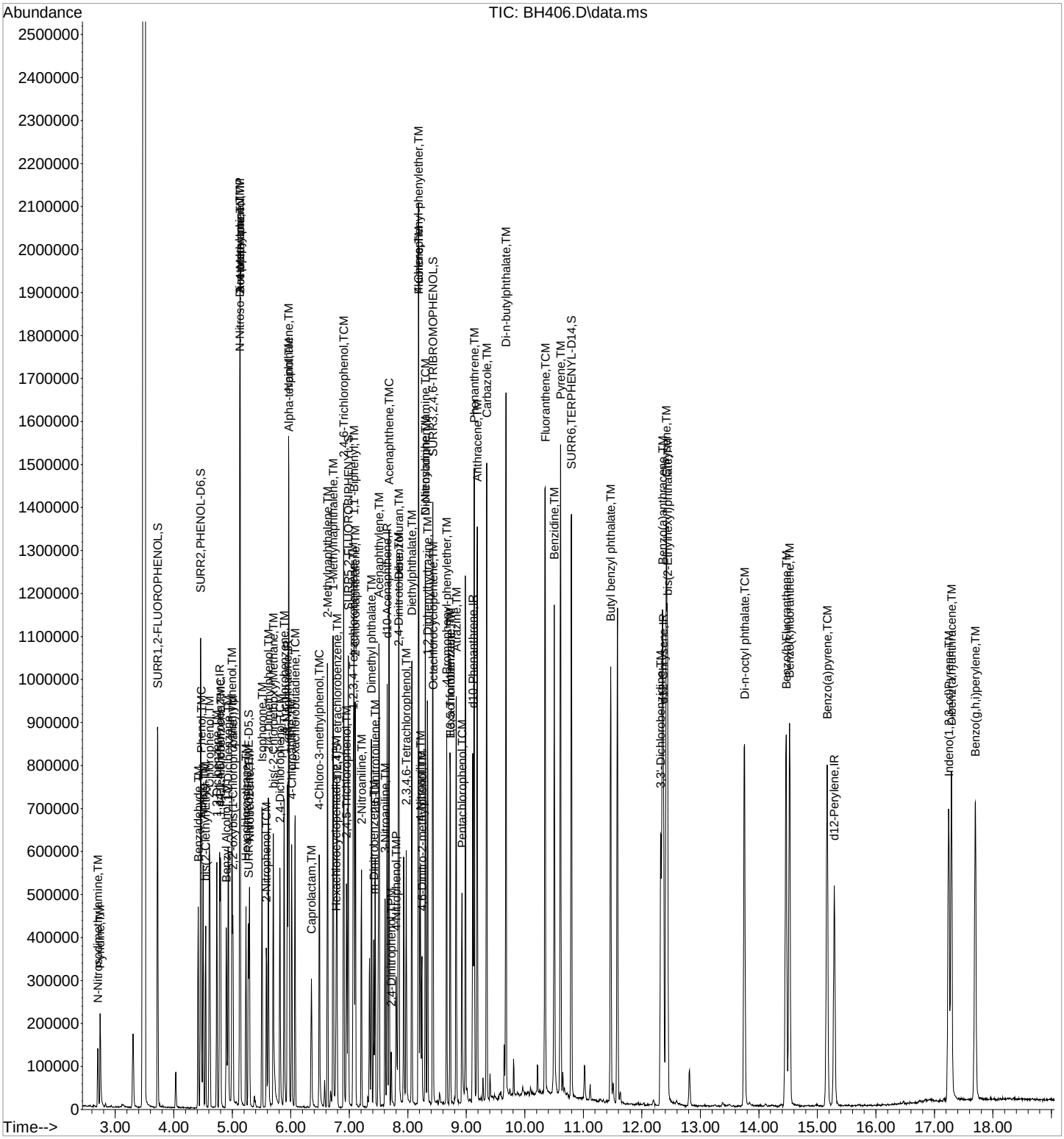
	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
59)	1,2,4,5-Tetrachloroben...	6.791	216	117666	42.11	ppm		99
60)	1,2,3,4-Tetrachloroben...	7.069	216	119157	41.94	ppm		99
61)	2,4,6-Trichlorophenol	6.903	196	86476	49.93	ppm		95
62)	2,4,5-Trichlorophenol	6.951	196	90091	50.33	ppm		98
65)	1,1'-Biphenyl	7.080	154	337474	42.79	ppm		98
66)	2-Chloronaphthalene	7.101	162	263616	43.25	ppm		98
67)	2-Nitroaniline	7.208	65	79811	50.64	ppm		91
69)	m-Dinitrobenzene	7.417	168	47107	43.81	ppm		91
70)	Acenaphthylene	7.507	152	439274	46.97	ppm		99
71)	Dimethyl phthalate	7.379	163	322107	52.63	ppm		98
72)	2,6-Dinitrotoluene	7.443	165	74569	53.46	ppm		90
73)	Acenaphthene	7.679	153	288089	46.42	ppm		96
74)	3-Nitroaniline	7.609	138	78597	45.82	ppm		90
75)	2,4-Dinitrophenol	7.716	184	19037	41.44	ppm		83
76)	Dibenzofuran	7.850	168	403400	49.16	ppm		98
77)	2,4-Dinitrotoluene	7.839	165	103854	59.80	ppm		95
78)	4-Nitrophenol	7.802	65	55660	50.91	ppm		90
82)	2,3,4,6-Tetrachlorophenol	7.973	232	71251	56.87	ppm		96
83)	Fluorene	8.187	166	333755	50.63	ppm		100
84)	4-Chlorophenyl-phenyle...	8.181	204	158668	51.30	ppm		99
85)	Diethylphthalate	8.069	149	360024	57.73	ppm		99
86)	4-Nitroaniline	8.213	138	99150	55.88	ppm		98
90)	Octachlorocyclopentene	8.433	307	37468	42.16	ppm		100
93)	4,6-Dinitro-2-methylph...	8.240	198	49894	57.53	ppm		97
94)	Diphenylamine	8.299	169	287813	58.63	ppm		99
95)	1,2 Diphenylhydrazine	8.337	77	346909	56.41	ppm		95
96)	N-Nitrosodiphenylamine	8.299	169	287813	58.62	ppm		99
97)	1,3,5-Trinirobenzene	8.727	213	1122	2.31	ppm	#	1
101)	4-Bromophenyl-phenylether	8.663	248	91632	57.91	ppm		92
102)	Hexachlorobenzene	8.727	284	101945	56.06	ppm		93
104)	Atrazine	8.829	215	54310	72.53	ppm		99
105)	Pentachlorophenol	8.925	266	57402	74.63	ppm		96
111)	Phenanthrene	9.133	178	503067	60.75	ppm		99
112)	Anthracene	9.187	178	514910	61.83	ppm		100
113)	Carbazole	9.347	167	567689	68.63	ppm		98
114)	Di-n-butylphthalate	9.679	149	777125	80.82	ppm		99
116)	Fluoranthene	10.348	202	615288	70.17	ppm		97
122)	Benzidine	10.503	184	469347	72.61	ppm		97
123)	Pyrene	10.610	202	660193	63.38	ppm		99
128)	Butyl benzyl phthalate	11.465	149	319813	63.37	ppm		96
131)	3,3'-Dichlorobenzidine	12.321	252	183499	50.85	ppm		92
132)	Benzo(a)anthracene	12.353	228	593852	62.96	ppm		98
133)	Chrysene	12.418	228	578883	64.70	ppm		97
134)	bis(2-Ethylhexyl)phtha...	12.439	149	480334	67.41	ppm		97
136)	Di-n-octyl phthalate	13.755	149	772642	67.80	ppm		98
138)	Benzo(b)Fluoranthene	14.466	252	572056	62.06	ppm		97
139)	Benzo(k)fluoranthene	14.525	252	560252	65.61	ppm		99
140)	Benzo(a)pyrene	15.167	252	528657	66.54	ppm		97
142)	Indeno(1,2,3-cd)Pyrene	17.247	276	441207	65.45	ppm		99
143)	Dibenz(a,h)anthracene	17.290	278	453940	59.24	ppm		98
144)	Benzo(g,h,i)perylene	17.702	276	459297	66.71	ppm		98

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

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\5973D\Data\080916\
Data File : BH406.D
Acq On : 9 Aug 2016 9:24 am
Operator : J.Misiurewicz
Sample : RQ1609061-02 Inst : 5973D
Misc : 267724 8270D SOIL LCS
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 10 08:11:57 2016
Quant Method : I:\ACQUDATA\5973D\Methods\8270080816.M
Quant Title : 8270 BNA ANALYSIS
QLast Update : Tue Aug 09 10:29:59 2016
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\5973D\Data\080516\
Data File : BH364.D
Acq On : 5 Aug 2016 6:07 pm
Operator : BALLGEIER
Sample : RQ1608990-03
Misc : 267636 8/2/16 8270
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Aug 08 08:36:33 2016
Quant Method : I:\ACQUDATA\5973D\Methods\8270072816.M
Quant Title : 8270 BNA ANALYSIS
QLast Update : Fri Jul 29 08:17:04 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) d4-1,4-Dichlorobenzene	4.785	152	79083	40.00	ppm		0.00
33) d8-Naphthalene	5.946	136	331595	40.00	ppm		0.00
57) d10-Acenaphthene	7.646	164	187636	40.00	ppm		0.00
91) d10-Phenanthrene	9.112	188	285143	40.00	ppm		0.00
117) d12-Chrysene	12.375	240	277950	40.00	ppm		0.00
135) d12-Perylene	15.290	264	270431	40.00	ppm		-0.02
System Monitoring Compounds							
7) SURR1,2-FLUOROPHENOL	3.715	112	290540	97.79	ppm		0.00
Spiked Amount 200.000	Range 10 - 105		Recovery = 48.90%				
12) SURR2,PHENOL-D6	4.453	99	253507	73.53	ppm		0.00
Spiked Amount 200.000	Range 10 - 107		Recovery = 36.77%				
34) SURR4,NITROBENZENE-D5	5.277	82	230089	87.81	ppm		0.00
Spiked Amount 100.000	Range 31 - 110		Recovery = 87.81%				
63) SURR5,2-FLUOROBIPHENYL	6.983	172	504553	83.98	ppm		0.00
Spiked Amount 100.000	Range 31 - 118		Recovery = 83.98%				
88) SURR3,2,4,6-TRIBROMOPH...	8.427	330	144324	201.76	ppm		0.00
Spiked Amount 200.000	Range 35 - 141		Recovery = 100.88%				
124) SURR6,TERPHENYL-D14	10.797	244	582111	101.91	ppm		0.00
Spiked Amount 100.000	Range 30 - 133		Recovery = 101.91%				
Target Compounds							Qvalue
2) Pyridine	2.736	79	114459	36.46	ppm		98
3) N-Nitrosodimethylamine	2.699	74	91989	50.88	ppm		93
10) Benzaldehyde	4.416	106	168760	89.91	ppm		98
11) Aniline	4.501	93	311997	62.35	ppm		96
13) Phenol	4.469	94	139272	39.93	ppm		99
14) bis(2-Clethyl)Ether	4.544	93	233243	86.41	ppm		96
16) 2-Chlorophenol	4.603	128	245548	87.31	ppm		99
17) 1,3-Diclbenzene	4.737	146	191770	62.37	ppm		99
18) 1,4-Dichlorobenzene	4.801	146	189233	59.34	ppm		96
19) 1,2-Diclbenzene	4.935	146	186885	61.31	ppm		99
20) Benzyl Alcohol	4.897	79	179075	86.20	ppm		96
22) 2,2'-oxybis(1-Chloropr...	5.010	45	298917	78.39	ppm	#	79
23) 2-Methylphenol	4.994	108	218675	83.16	ppm		89
24) 3+4-Methylphenol	5.127	108	216565	78.17	ppm		95
25) Acetophenone	5.138	105	662044	147.33	ppm		85
26) N-Nitroso-Di-n-propyla...	5.133	70	190395	80.27	ppm	#	81
30) Hexachloroethane	5.234	117	69998	55.01	ppm		97
32) Alpha-terpinol	5.967	121	102377	89.99	ppm		99
35) Nitrobenzene	5.293	77	259064	99.84	ppm		94
37) Isophorone	5.512	82	514532	100.08	ppm		98
38) 2-Nitrophenol	5.587	139	136314	111.91	ppm		98
39) Benzoic Acid	5.716	105	61570	56.43	ppm		90
40) 2,4-Dimethylphenol	5.614	107	273183	103.45	ppm		98
41) bis(-2-Chloroethoxy)Me...	5.705	93	333464	102.06	ppm		97
42) 2,4-Dichlorophenol	5.812	162	220334	104.88	ppm		97
44) 1,2,4-Trichlorobenzene	5.887	180	170471	69.40	ppm		98
45) Naphthalene	5.967	128	631688	76.98	ppm		98
46) 4-Chloroaniline	6.015	127	333606	95.35	ppm		99
48) Hexachlorobutadiene	6.074	225	100024	74.63	ppm		99
50) 4-Chloro-3-methylphenol	6.480	107	236710	106.14	ppm		95
52) Caprolactam	6.363	113	22979	24.45	ppm		98
55) 2-Methylnaphthalene	6.630	142	429679	82.22	ppm		99
56) 1-Methylnaphthalene	6.726	142	427802	86.34	ppm		98

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\5973D\Data\080516\
Data File : BH364.D
Acq On : 5 Aug 2016 6:07 pm
Operator : BALLGEIER
Sample : RQ1608990-03
Misc : 267636 8/2/16 8270
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Aug 08 08:36:33 2016
Quant Method : I:\ACQUDATA\5973D\Methods\8270072816.M
Quant Title : 8270 BNA ANALYSIS
QLast Update : Fri Jul 29 08:17:04 2016
Response via : Initial Calibration

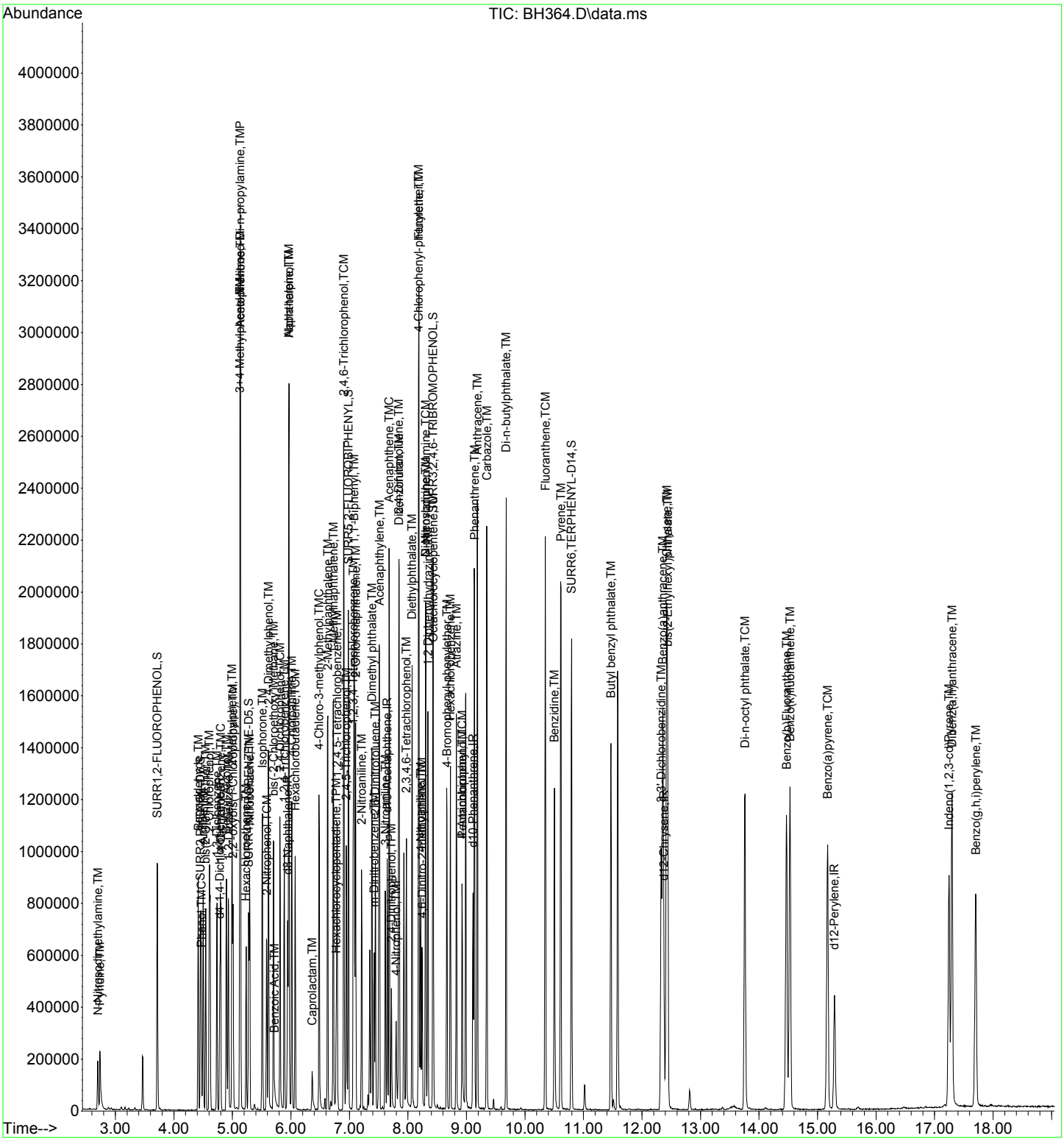
	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
58)	Hexachlorocyclopentadiene	6.775	237	44681	48.11	ppm		96
59)	1,2,4,5-Tetrachloroben...	6.791	216	187571	80.30	ppm		99
60)	1,2,3,4-Tetrachloroben...	7.069	216	190248	76.74	ppm		97
61)	2,4,6-Trichlorophenol	6.903	196	159789	108.97	ppm		96
62)	2,4,5-Trichlorophenol	6.946	196	160801	105.63	ppm		97
65)	1,1'-Biphenyl	7.080	154	565730	80.99	ppm		99
66)	2-Chloronaphthalene	7.106	162	419943	79.20	ppm		99
67)	2-Nitroaniline	7.208	65	139211	103.27	ppm		89
69)	m-Dinitrobenzene	7.422	168	80935	102.26	ppm	#	64
70)	Acenaphthylene	7.513	152	739643	91.11	ppm		99
71)	Dimethyl phthalate	7.384	163	550622	100.58	ppm		99
72)	2,6-Dinitrotoluene	7.443	165	123775	114.64	ppm		91
73)	Acenaphthene	7.679	153	481000	89.71	ppm		99
74)	3-Nitroaniline	7.614	138	135115	94.49	ppm		95
75)	2,4-Dinitrophenol	7.716	184	66227	154.58	ppm		93
76)	Dibenzofuran	7.850	168	677727	94.01	ppm		98
77)	2,4-Dinitrotoluene	7.844	165	162399	107.78	ppm		93
78)	4-Nitrophenol	7.796	65	42273	50.27	ppm		94
82)	2,3,4,6-Tetrachlorophenol	7.973	232	124216	117.56	ppm		99
83)	Fluorene	8.187	166	534173	90.13	ppm		100
84)	4-Chlorophenyl-phenyle...	8.181	204	254840	94.52	ppm		96
85)	Diethylphthalate	8.069	149	588366	102.87	ppm		98
86)	4-Nitroaniline	8.219	138	160208	103.81	ppm		98
90)	Octachlorocyclopentene	8.433	307	65646	84.70	ppm		94
93)	4,6-Dinitro-2-methylph...	8.246	198	90695	136.31	ppm		99
94)	Diphenylamine	8.304	169	468318	99.98	ppm		98
95)	1,2 Diphenylhydrazine	8.342	77	545471	90.28	ppm		97
96)	N-Nitrosodiphenylamine	8.304	169	468318	99.98	ppm		98
101)	4-Bromophenyl-phenylether	8.668	248	143427	101.19	ppm		97
102)	Hexachlorobenzene	8.727	284	160853	99.99	ppm		92
104)	Atrazine	8.829	215	78730	119.26	ppm		95
105)	Pentachlorophenol	8.925	266	101124	150.38	ppm		95
106)	4-Aminobiphenyl	8.925	169	12492	2.23	ppm		91
111)	Phenanthrene	9.139	178	796899	105.64	ppm		100
112)	Anthracene	9.187	178	810838	107.24	ppm		99
113)	Carbazole	9.347	167	832453	103.82	ppm		99
114)	Di-n-butylphthalate	9.679	149	1083442	119.76	ppm		99
116)	Fluoranthene	10.348	202	887737	110.43	ppm		98
122)	Benzidine	10.503	184	517066	90.48	ppm		99
123)	Pyrene	10.615	202	919893	104.84	ppm		99
128)	Butyl benzyl phthalate	11.471	149	444802	100.36	ppm		96
131)	3,3'-Dichlorobenzidine	12.327	252	275749	88.71	ppm		94
132)	Benzo(a)anthracene	12.353	228	840483	106.30	ppm		100
133)	Chrysene	12.423	228	819635	108.44	ppm		98
134)	bis(2-Ethylhexyl)phtha...	12.439	149	644143	101.96	ppm		99
136)	Di-n-octyl phthalate	13.760	149	1067856	100.56	ppm		99
138)	Benzo(b)Fluoranthene	14.471	252	797568	102.31	ppm		92
139)	Benzo(k)fluoranthene	14.530	252	803408	110.69	ppm		96
140)	Benzo(a)pyrene	15.172	252	708680	105.83	ppm		94
142)	Indeno(1,2,3-cd)Pyrene	17.247	276	577627	109.19	ppm		97
143)	Dibenz(a,h)anthracene	17.301	278	746441	123.45	ppm		96
144)	Benzo(g,h,i)perylene	17.707	276	565175	106.57	ppm		95

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

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\5973D\Data\080516\
Data File : BH364.D
Acq On : 5 Aug 2016 6:07 pm
Operator : BALLGEIER
Sample : RQ1608990-03
Misc : 267636 8/2/16 8270
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Aug 08 08:36:33 2016
Quant Method : I:\ACQUDATA\5973D\Methods\8270072816.M
Quant Title : 8270 BNA ANALYSIS
QLast Update : Fri Jul 29 08:17:04 2016
Response via : Initial Calibration



1st DM 08/10/16
2nd BA 08/10/16

Quantitation Report (Not Reviewed)

Data Path : I:\ACQUDATA\5973D\Data\080916\
Data File : BH407.D
Acq On : 9 Aug 2016 9:52 am
Operator : J.Misiurewicz
Sample : RQ1609061-03 Inst : 5973D
Misc : 267724 8270D SOIL LCSD
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 10 09:27:05 2016
Quant Method : I:\ACQUDATA\5973D\Methods\BENZ0705D.M
Quant Title : 8270 BNA ANALYSIS
QLast Update : Tue Jul 05 12:15:19 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) d4-1,4-Dichlorobenzene	4.785	152	81475	40.00 ppm	-0.03
3) d8-Naphthalene	5.946	136	376493	40.00 ppm	-0.03
5) d10-Acenaphthene	7.646	164	188129	40.00 ppm	-0.03
6) d10-Phenanthrene	9.112	188	278796	40.00 ppm	-0.03
7) d12-Chrysene	12.369	240	282509	40.00 ppm	-0.05
8) d12-Perylene	15.290	264	284772	40.00 ppm	-0.06
Target Compounds					Qvalue
2) Benzaldehyde	4.416	106	77740	38.52 ppm	89
4) Benzoic Acid	5.716	105	57888	31.40 ppm	91

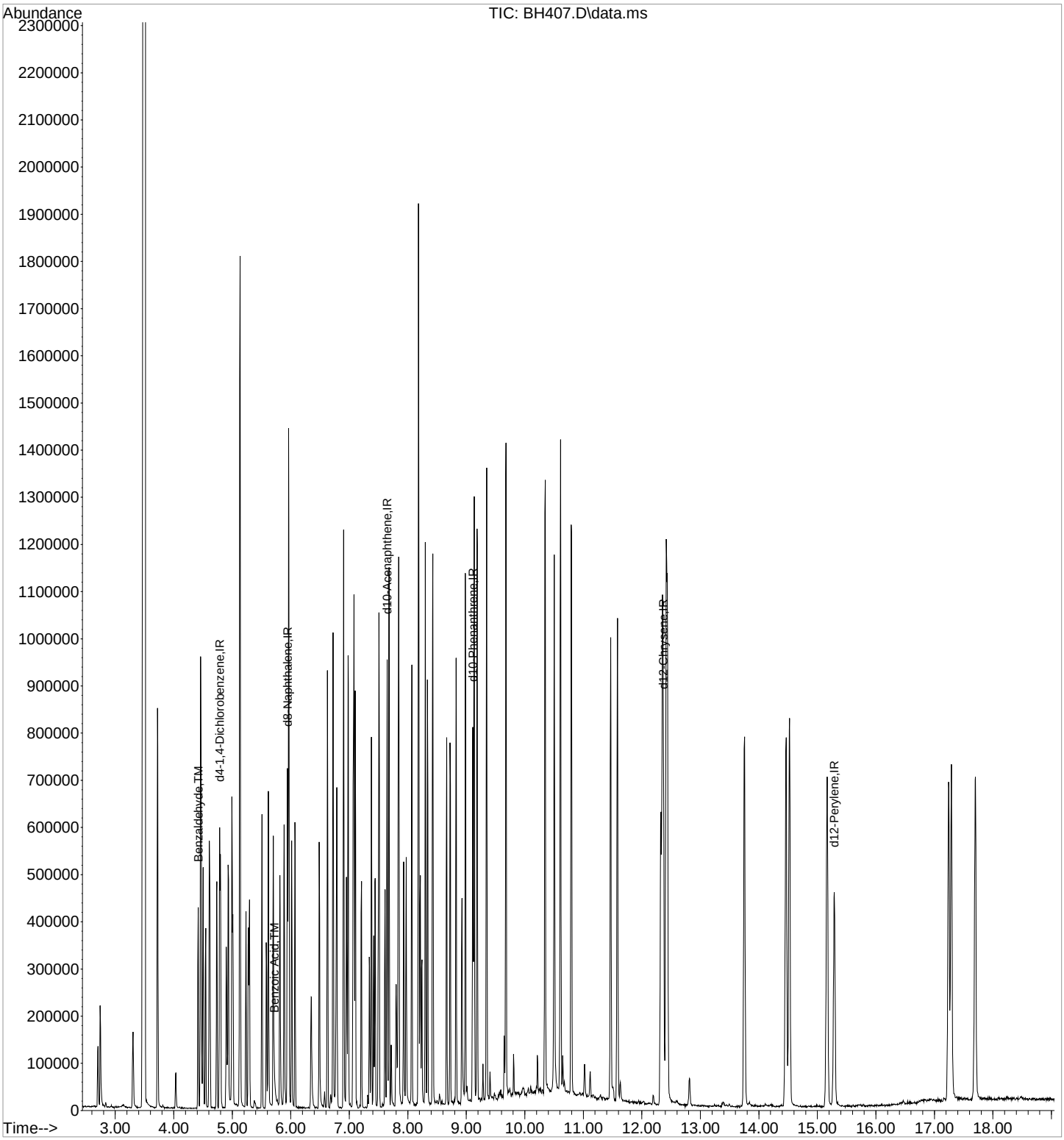
(#) = qualifier out of range (m) = manual integration (+) = signals summed

1st DM 08/10/16
2nd BA 08/10/16

Quantitation Report (Not Reviewed)

Data Path : I:\ACQUDATA\5973D\Data\080916\
Data File : BH407.D
Acq On : 9 Aug 2016 9:52 am
Operator : J.Misiurewicz
Sample : RQ1609061-03 Inst : 5973D
Misc : 267724 8270D SOIL LCSD
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 10 09:27:05 2016
Quant Method : I:\ACQUDATA\5973D\Methods\BENZ0705D.M
Quant Title : 8270 BNA ANALYSIS
QLast Update : Tue Jul 05 12:15:19 2016
Response via : Initial Calibration



1st DM 08/10/16
2nd BA 08/10/16

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\5973D\Data\080916\
Data File : BH407.D
Acq On : 9 Aug 2016 9:52 am
Operator : J.Misiurewicz
Sample : RQ1609061-03 Inst : 5973D
Misc : 267724 8270D SOIL LCSD
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 10 08:13:36 2016
Quant Method : I:\ACQUDATA\5973D\Methods\8270080816.M
Quant Title : 8270 BNA ANALYSIS
QLast Update : Tue Aug 09 10:29:59 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) d4-1,4-Dichlorobenzene	4.785	152	81475	40.00	ppm		0.00
33) d8-Naphthalene	5.946	136	342511	40.00	ppm		0.00
57) d10-Acenaphthene	7.646	164	188129	40.00	ppm		0.00
91) d10-Phenanthrene	9.112	188	278796	40.00	ppm		0.00
117) d12-Chrysene	12.369	240	282509	40.00	ppm		0.00
135) d12-Perylene	15.290	264	284772	40.00	ppm		0.00
System Monitoring Compounds							
7) SURR1,2-FLUOROPHENOL	3.720	112	248023	78.42	ppm		0.00
Spiked Amount 200.000	Range 16 - 129		Recovery = 39.21%				
12) SURR2,PHENOL-D6	4.459	99	316311	86.28	ppm		0.00
Spiked Amount 200.000	Range 10 - 145		Recovery = 43.14%				
34) SURR4,NITROBENZENE-D5	5.277	82	122012	38.75	ppm		0.00
Spiked Amount 100.000	Range 10 - 95		Recovery = 38.75%				
63) SURR5,2-FLUOROBIPHENYL	6.983	172	276963	42.57	ppm		0.00
Spiked Amount 100.000	Range 10 - 102		Recovery = 42.57%				
88) SURR3,2,4,6-TRIBROMOPH...	8.427	330	88895	110.53	ppm		0.00
Spiked Amount 200.000	Range 13 - 128		Recovery = 55.27%				
124) SURR6,TERPHENYL-D14	10.797	244	423936	67.26	ppm		0.00
Spiked Amount 100.000	Range 16 - 126		Recovery = 67.26%				
Target Compounds							Qvalue
2) Pyridine	2.742	79	86630	26.64	ppm		98
3) N-Nitrosodimethylamine	2.704	74	60964	32.53	ppm		95
10) Benzaldehyde	~~4.416~~	~~106~~	~~77740~~	~~69.36~~	~~ppm~~		~~97~~
11) Aniline	4.501	93	181799	35.27	ppm		97
13) Phenol	4.469	94	161332	43.30	ppm		97
14) bis(2-Clethyl)Ether	4.544	93	117496	40.55	ppm		94
16) 2-Chlorophenol	4.608	128	132005	43.02	ppm		99
17) 1,3-Diclbenzene	4.737	146	114548	33.57	ppm		96
18) 1,4-Dichlorobenzene	4.796	146	117525	34.24	ppm		97
19) 1,2-Diclbenzene	4.935	146	114526	34.56	ppm		98
20) Benzyl Alcohol	4.897	79	80871	39.06	ppm		97
22) 2,2'-oxybis(1-Chloropr...	5.010	45	151862	38.76	ppm	#	72
23) 2-Methylphenol	4.993	108	124613	44.25	ppm		89
24) 3+4-Methylphenol	5.133	108	124728	40.90	ppm		80
25) Acetophenone	5.133	105	305211	66.62	ppm		94
26) N-Nitroso-Di-n-propyla...	5.127	70	89277	38.40	ppm	#	77
30) Hexachloroethane	5.234	117	44267	31.57	ppm		99
32) Alpha-terpinol	5.967	121	47847	41.06	ppm		96
35) Nitrobenzene	5.293	77	129628	42.22	ppm		96
37) Isophorone	5.507	82	244344	43.94	ppm		100
38) 2-Nitrophenol	5.582	139	66220	41.29	ppm		86
40) 2,4-Dimethylphenol	5.614	107	130129	45.29	ppm		99
41) bis(-2-Chloroethoxy)Me...	5.699	93	156222	43.06	ppm		98
42) 2,4-Dichlorophenol	5.812	162	105756	44.22	ppm		93
44) 1,2,4-Trichlorobenzene	5.887	180	104305	37.78	ppm		99
45) Naphthalene	5.962	128	356262	39.34	ppm		100
46) 4-Chloroaniline	6.015	127	162186	42.73	ppm		99
48) Hexachlorobutadiene	6.074	225	61668	40.68	ppm		95
50) 4-Chloro-3-methylphenol	6.486	107	113250	46.12	ppm		97
52) Caprolactam	6.352	113	40416	44.70	ppm		97
55) 2-Methylnaphthalene	6.625	142	246698	41.70	ppm		97
56) 1-Methylnaphthalene	6.721	142	250174	45.23	ppm		99
58) Hexachlorocyclopentadiene	6.775	237	32673	34.07	ppm		99

1st DM 08/10/16
2nd BA 08/10/16

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\5973D\Data\080916\
Data File : BH407.D
Acq On : 9 Aug 2016 9:52 am
Operator : J.Misiurewicz
Sample : RQ1609061-03 Inst : 5973D
Misc : 267724 8270D SOIL LCSD
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 10 08:13:36 2016
Quant Method : I:\ACQUDATA\5973D\Methods\8270080816.M
Quant Title : 8270 BNA ANALYSIS
QLast Update : Tue Aug 09 10:29:59 2016
Response via : Initial Calibration

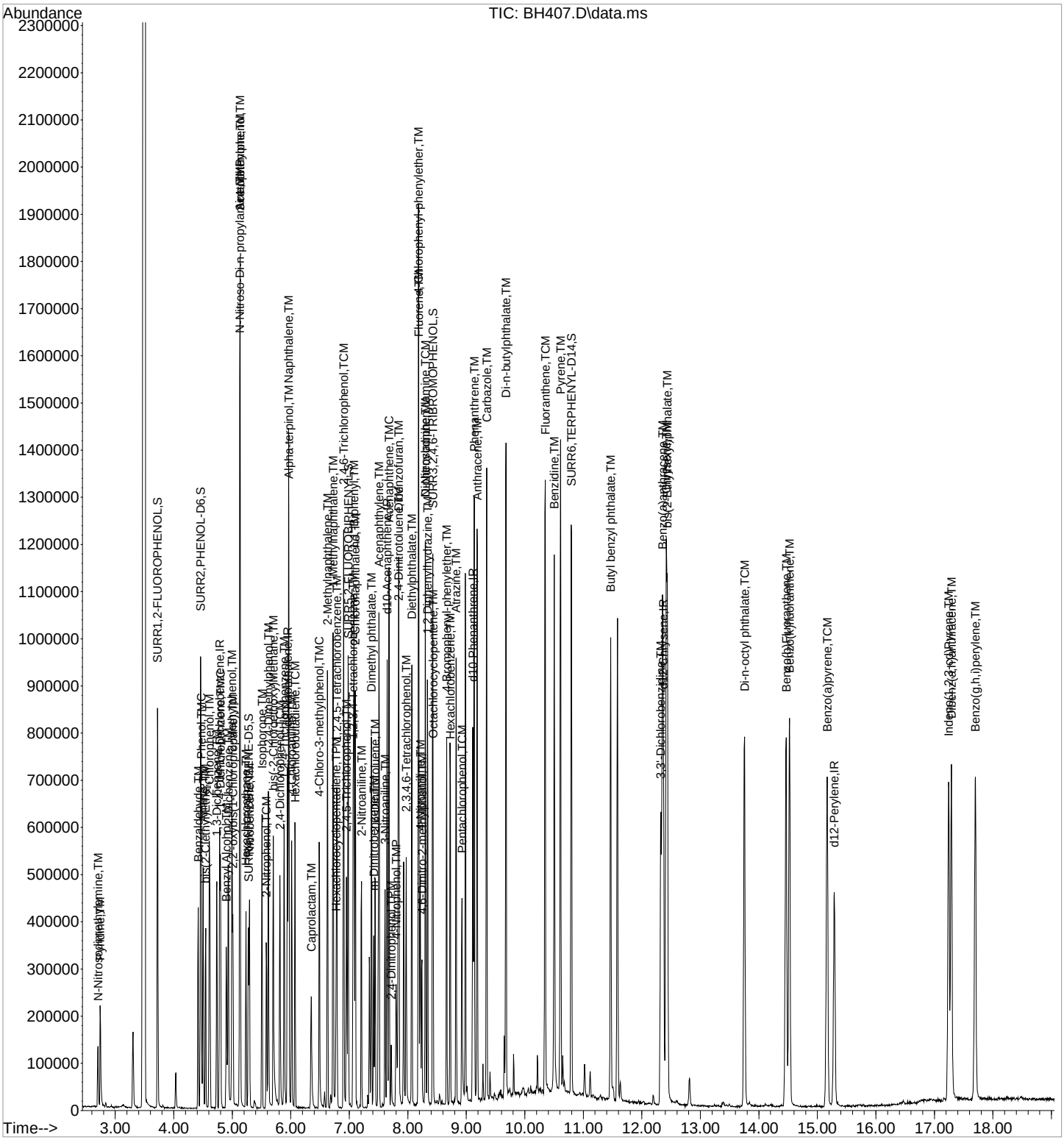
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
59)	1,2,4,5-Tetrachloroben...	6.785	216	106986	40.69	ppm	96
60)	1,2,3,4-Tetrachloroben...	7.063	216	106873	39.97	ppm	98
61)	2,4,6-Trichlorophenol	6.903	196	76893	47.18	ppm	99
62)	2,4,5-Trichlorophenol	6.951	196	78239	46.45	ppm	95
65)	1,1'-Biphenyl	7.079	154	303917	40.95	ppm	97
66)	2-Chloronaphthalene	7.101	162	228822	39.89	ppm	95
67)	2-Nitroaniline	7.208	65	71638	48.31	ppm	88
69)	m-Dinitrobenzene	7.416	168	42238	41.75	ppm	88
70)	Acenaphthylene	7.507	152	399854	45.43	ppm	99
71)	Dimethyl phthalate	7.379	163	292624	50.81	ppm	99
72)	2,6-Dinitrotoluene	7.443	165	68706	52.34	ppm	88
73)	Acenaphthene	7.678	153	255635	43.77	ppm	99
74)	3-Nitroaniline	7.609	138	72541	44.94	ppm	96
75)	2,4-Dinitrophenol	7.716	184	17672	41.01	ppm	89
76)	Dibenzofuran	7.844	168	365549	47.33	ppm	99
77)	2,4-Dinitrotoluene	7.839	165	93892	57.45	ppm	93
78)	4-Nitrophenol	7.802	65	49869	48.47	ppm	89
82)	2,3,4,6-Tetrachlorophenol	7.973	232	62995	53.44	ppm	99
83)	Fluorene	8.187	166	303176	48.87	ppm	100
84)	4-Chlorophenyl-phenyle...	8.181	204	145152	49.87	ppm	95
85)	Diethylphthalate	8.069	149	328201	55.92	ppm	98
86)	4-Nitroaniline	8.213	138	94598	56.66	ppm	97
90)	Octachlorocyclopentene	8.433	307	32854	39.28	ppm	94
93)	4,6-Dinitro-2-methylph...	8.240	198	45417	54.46	ppm	99
94)	Diphenylamine	8.299	169	261933	55.49	ppm	99
95)	1,2 Diphenylhydrazine	8.336	77	313793	53.07	ppm	97
96)	N-Nitrosodiphenylamine	8.299	169	261933	55.49	ppm	99
101)	4-Bromophenyl-phenylether	8.663	248	80258	52.76	ppm	96
102)	Hexachlorobenzene	8.727	284	93679	53.58	ppm	94
104)	Atrazine	8.823	215	50205	69.74	ppm	90
105)	Pentachlorophenol	8.925	266	53496	72.33	ppm	96
111)	Phenanthrene	9.133	178	455268	57.18	ppm	97
112)	Anthracene	9.187	178	466348	58.24	ppm	98
113)	Carbazole	9.347	167	518673	65.22	ppm	99
114)	Di-n-butylphthalate	9.679	149	721870	78.08	ppm	100
116)	Fluoranthene	10.347	202	570123	67.62	ppm	98
122)	Benzidine	10.503	184	474155	77.89	ppm	99
123)	Pyrene	10.610	202	589884	60.13	ppm	98
128)	Butyl benzyl phthalate	11.465	149	292901	61.63	ppm	96
131)	3,3'-Dichlorobenzidine	12.321	252	182535	53.71	ppm	97
132)	Benzo(a)anthracene	12.353	228	542005	61.02	ppm	100
133)	Chrysene	12.417	228	513467	60.94	ppm	98
134)	bis(2-Ethylhexyl)phtha...	12.433	149	440735	65.68	ppm	99
136)	Di-n-octyl phthalate	13.755	149	700787	63.99	ppm	99
138)	Benzo(b)Fluoranthene	14.466	252	534151	60.29	ppm	94
139)	Benzo(k)fluoranthene	14.525	252	521874	63.59	ppm	98
140)	Benzo(a)pyrene	15.167	252	489076	64.05	ppm	97
142)	Indeno(1,2,3-cd)Pyrene	17.242	276	435291	67.19	ppm	100
143)	Dibenz(a,h)anthracene	17.290	278	430359	58.43	ppm	99
144)	Benzo(g,h,i)perylene	17.702	276	441779	66.77	ppm	98

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

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\5973D\Data\080916\
Data File : BH407.D
Acq On : 9 Aug 2016 9:52 am
Operator : J.Misiurewicz
Sample : RQ1609061-03 Inst : 5973D
Misc : 267724 8270D SOIL LCSD
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 10 08:13:36 2016
Quant Method : I:\ACQUDATA\5973D\Methods\8270080816.M
Quant Title : 8270 BNA ANALYSIS
QLast Update : Tue Aug 09 10:29:59 2016
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\5973D\Data\080516\
Data File : BH368.D
Acq On : 5 Aug 2016 7:57 pm
Operator : BALLGEIER
Sample : RQ1608990-06
Misc : 267636 8/2/16 8270
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Aug 08 08:37:31 2016
Quant Method : I:\ACQUDATA\5973D\Methods\8270072816.M
Quant Title : 8270 BNA ANALYSIS
QLast Update : Fri Jul 29 08:17:04 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) d4-1,4-Dichlorobenzene	4.785	152	76624	40.00	ppm	0.00
33) d8-Naphthalene	5.945	136	316953	40.00	ppm	0.00
57) d10-Acenaphthene	7.646	164	178618	40.00	ppm	0.00
91) d10-Phenanthrene	9.112	188	276069	40.00	ppm	0.00
117) d12-Chrysene	12.369	240	265260	40.00	ppm	-0.01
135) d12-Perylene	15.295	264	252006	40.00	ppm	-0.01
System Monitoring Compounds						
7) SURR1,2-FLUOROPHENOL	3.715	112	284921	98.97	ppm	0.00
Spiked Amount 200.000	Range 10 - 105		Recovery = 49.48%			
12) SURR2,PHENOL-D6	4.458	99	256047	76.65	ppm	0.00
Spiked Amount 200.000	Range 10 - 107		Recovery = 38.33%			
34) SURR4,NITROBENZENE-D5	5.277	82	222699	88.92	ppm	0.00
Spiked Amount 100.000	Range 31 - 110		Recovery = 88.92%			
63) SURR5,2-FLUOROBIPHENYL	6.983	172	495585	86.65	ppm	0.00
Spiked Amount 100.000	Range 31 - 118		Recovery = 86.65%			
88) SURR3,2,4,6-TRIBROMOPH...	8.427	330	131011	192.39	ppm	0.00
Spiked Amount 200.000	Range 35 - 141		Recovery = 96.19%			
124) SURR6,TERPHENYL-D14	10.797	244	567250	104.06	ppm	0.00
Spiked Amount 100.000	Range 30 - 133		Recovery = 104.06%			
Target Compounds						Qvalue
2) Pyridine	2.741	79	71146	23.39	ppm	95
3) N-Nitrosodimethylamine	2.699	74	90926	51.90	ppm	97
10) Benzaldehyde	4.416	106	178102	97.93	ppm	96
11) Aniline	4.501	93	38664	7.97	ppm	91
13) Phenol	4.469	94	149799	44.32	ppm	97
14) bis(2-Clethyl)Ether	4.544	93	227832	87.11	ppm	95
16) 2-Chlorophenol	4.608	128	245563	90.12	ppm	96
17) 1,3-Diclbenzene	4.737	146	204286	68.57	ppm	96
18) 1,4-Dichlorobenzene	4.801	146	202459	65.53	ppm	97
19) 1,2-Diclbenzene	4.934	146	256494	86.84	ppm	98
20) Benzyl Alcohol	4.897	79	167206	83.07	ppm	97
22) 2,2'-oxybis(1-Chloropr...	5.009	45	298293	80.74	ppm #	80
23) 2-Methylphenol	4.993	108	211953	83.19	ppm	90
24) 3+4-Methylphenol	5.127	108	208782	77.78	ppm	92
25) Acetophenone	5.138	105	642055	147.46	ppm	87
26) N-Nitroso-Di-n-propyla...	5.132	70	179730	78.20	ppm	82
30) Hexachloroethane	5.234	117	76631	62.16	ppm	95
32) Alpha-terpinol	5.967	121	95722	86.84	ppm	99
35) Nitrobenzene	5.293	77	350172	141.18	ppm	100
37) Isophorone	5.507	82	488927	99.49	ppm	99
38) 2-Nitrophenol	5.587	139	131707	113.12	ppm	96
39) Benzoic Acid	5.726	105	105676	101.33	ppm	95
40) 2,4-Dimethylphenol	5.614	107	133602	52.93	ppm	97
41) bis(-2-Chloroethoxy)Me...	5.699	93	310957	99.57	ppm	97
42) 2,4-Dichlorophenol	5.812	162	209946	104.55	ppm	99
44) 1,2,4-Trichlorobenzene	5.886	180	181582	77.34	ppm	96
45) Naphthalene	5.961	128	658377	83.94	ppm	98
46) 4-Chloroaniline	6.015	127	67858	20.29	ppm	96
48) Hexachlorobutadiene	6.074	225	102374	79.92	ppm	91
50) 4-Chloro-3-methylphenol	6.486	107	223924	105.05	ppm	96
52) Caprolactam	6.362	113	23822	26.52	ppm	93
55) 2-Methylnaphthalene	6.630	142	444351	88.95	ppm	96
56) 1-Methylnaphthalene	6.726	142	446872	94.36	ppm	100

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\5973D\Data\080516\
Data File : BH368.D
Acq On : 5 Aug 2016 7:57 pm
Operator : BALLGEIER
Sample : RQ1608990-06
Misc : 267636 8/2/16 8270
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Aug 08 08:37:31 2016
Quant Method : I:\ACQUDATA\5973D\Methods\8270072816.M
Quant Title : 8270 BNA ANALYSIS
QLast Update : Fri Jul 29 08:17:04 2016
Response via : Initial Calibration

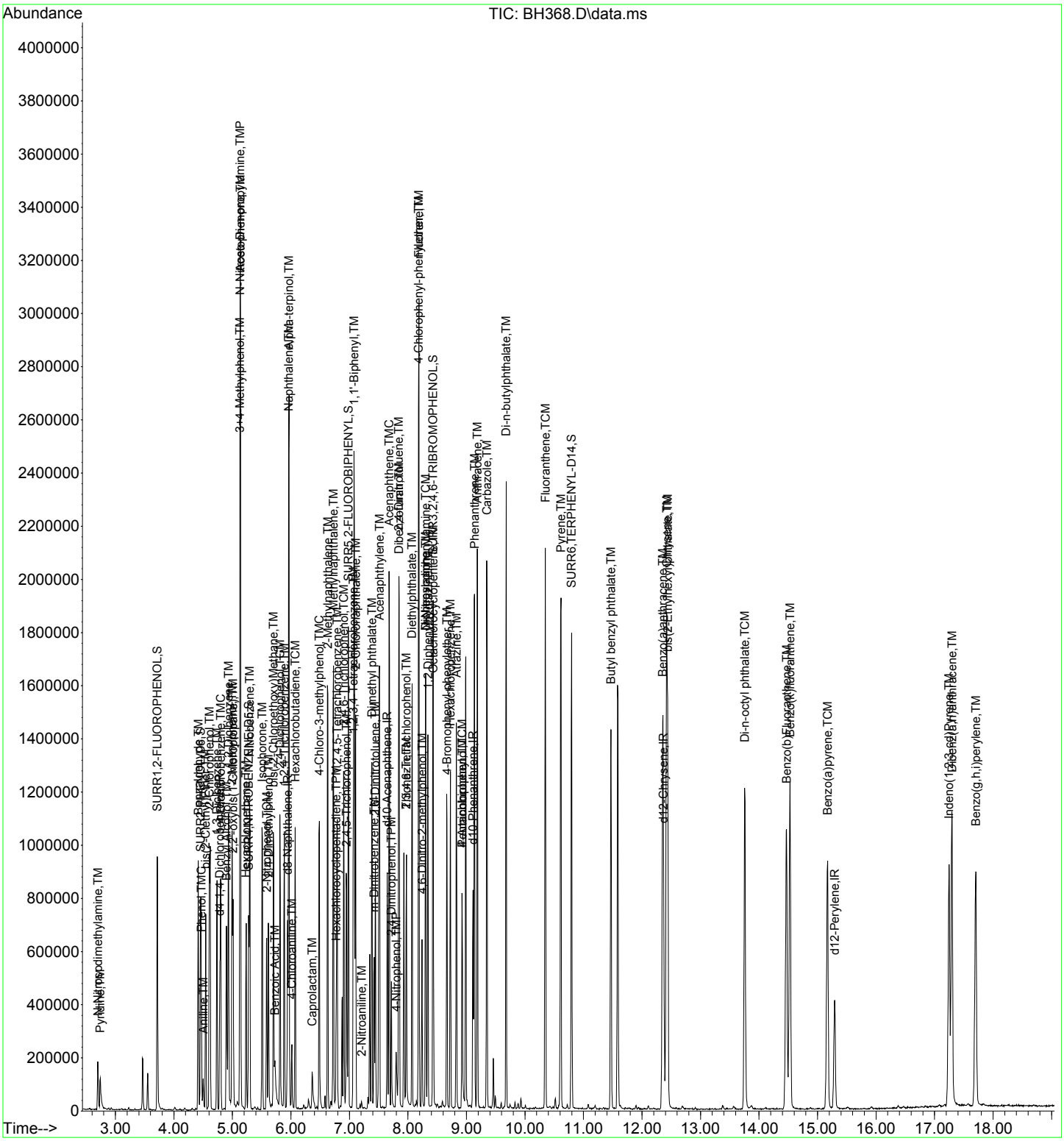
	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
58)	Hexachlorocyclopentadiene	6.774	237	49809	54.96	ppm		99
59)	1,2,4,5-Tetrachloroben...	6.790	216	177671	79.90	ppm		97
60)	1,2,3,4-Tetrachloroben...	7.069	216	177466	75.19	ppm		99
61)	2,4,6-Trichlorophenol	6.903	196	154407	110.62	ppm		97
62)	2,4,5-Trichlorophenol	6.951	196	158542	109.41	ppm		100
65)	1,1'-Biphenyl	7.079	154	707429	106.40	ppm		98
66)	2-Chloronaphthalene	7.106	162	428494	84.89	ppm		98
67)	2-Nitroaniline	7.208	65	4020	3.13	ppm		97
69)	m-Dinitrobenzene	7.422	168	74941	100.14	ppm	#	67
70)	Acenaphthylene	7.512	152	701449	90.76	ppm		99
71)	Dimethyl phthalate	7.384	163	523961	100.54	ppm		99
72)	2,6-Dinitrotoluene	7.443	165	114803	111.70	ppm		89
73)	Acenaphthene	7.678	153	469957	92.07	ppm		98
75)	2,4-Dinitrophenol	7.716	184	61738	152.44	ppm		95
76)	Dibenzofuran	7.849	168	653667	95.25	ppm		99
77)	2,4-Dinitrotoluene	7.844	165	155912	108.50	ppm		90
78)	4-Nitrophenol	7.801	65	42459	53.04	ppm		92
82)	2,3,4,6-Tetrachlorophenol	7.972	232	113265	112.61	ppm		99
83)	Fluorene	8.186	166	502827	89.13	ppm		98
84)	4-Chlorophenyl-phenyle...	8.181	204	244983	95.45	ppm		96
85)	Diethylphthalate	8.069	149	551858	101.36	ppm		98
90)	Octachlorocyclopentene	8.432	307	60678	82.24	ppm		95
92)	Thionazin	7.972	107	9054	9.18	ppm		58
93)	4,6-Dinitro-2-methylph...	8.240	198	86015	134.23	ppm		90
94)	Diphenylamine	8.304	169	417991	92.17	ppm		98
95)	1,2 Diphenylhydrazine	8.341	77	528578	90.35	ppm		96
96)	N-Nitrosodiphenylamine	8.304	169	417991	92.17	ppm		98
101)	4-Bromophenyl-phenylether	8.668	248	136573	99.52	ppm		96
102)	Hexachlorobenzene	8.727	284	148447	95.31	ppm		96
104)	Atrazine	8.828	215	77816	121.75	ppm		88
105)	Pentachlorophenol	8.924	266	99203	152.37	ppm		94
106)	4-Aminobiphenyl	8.924	169	13223	2.44	ppm		80
111)	Phenanthrene	9.138	178	745803	102.12	ppm		100
112)	Anthracene	9.187	178	726685	99.26	ppm		98
113)	Carbazole	9.347	167	797864	102.78	ppm		99
114)	Di-n-butylphthalate	9.679	149	1047785	119.63	ppm		100
116)	Fluoranthene	10.347	202	844978	108.57	ppm		100
123)	Pyrene	10.615	202	879425	105.02	ppm		99
128)	Butyl benzyl phthalate	11.470	149	441073	104.28	ppm		96
132)	Benzo(a)anthracene	12.353	228	785249	104.07	ppm		99
133)	Chrysene	12.422	228	785503	108.89	ppm		99
134)	bis(2-Ethylhexyl)phtha...	12.439	149	619196	102.70	ppm		99
136)	Di-n-octyl phthalate	13.754	149	1059132	107.03	ppm		100
138)	Benzo(b)Fluoranthene	14.471	252	776846	106.93	ppm		95
139)	Benzo(k)fluoranthene	14.530	252	783388	115.82	ppm		96
140)	Benzo(a)pyrene	15.172	252	647549	103.77	ppm		97
142)	Indeno(1,2,3-cd)Pyrene	17.247	276	611079	123.96	ppm		96
143)	Dibenz(a,h)anthracene	17.300	278	696709	123.65	ppm		96
144)	Benzo(g,h,i)perylene	17.707	276	612967	124.03	ppm		99

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

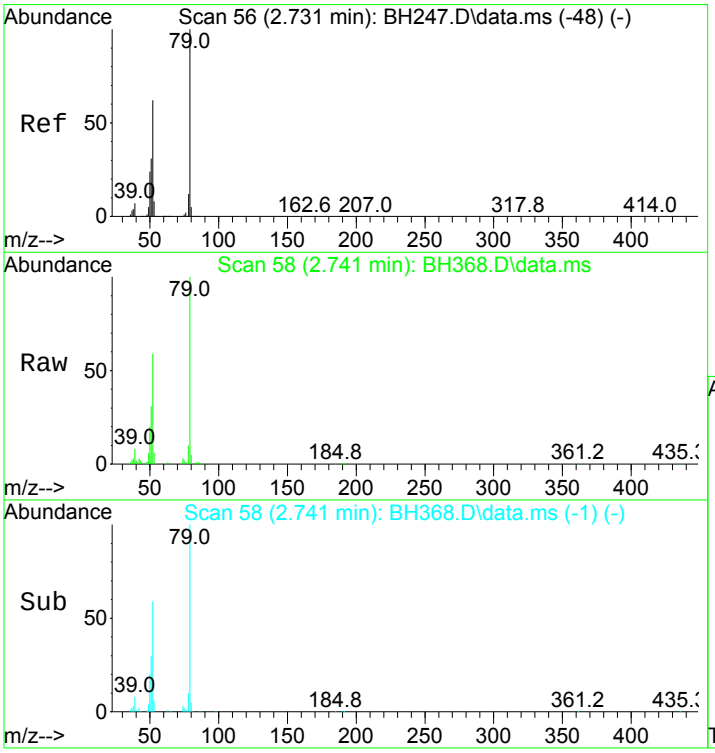
Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\5973D\Data\080516\
Data File : BH368.D
Acq On : 5 Aug 2016 7:57 pm
Operator : BALLGEIER
Sample : RQ1608990-06
Misc : 267636 8/2/16 8270
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Aug 08 08:37:31 2016
Quant Method : I:\ACQUDATA\5973D\Methods\8270072816.M
Quant Title : 8270 BNA ANALYSIS
QLast Update : Fri Jul 29 08:17:04 2016
Response via : Initial Calibration



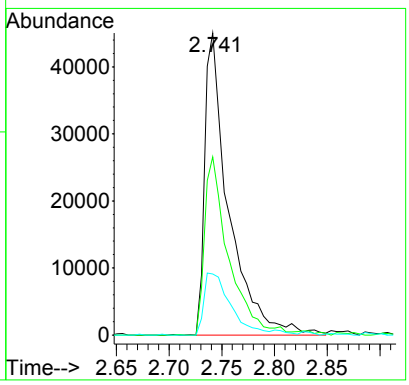
1st BA 08/08/16
2nd MW 08/09/16

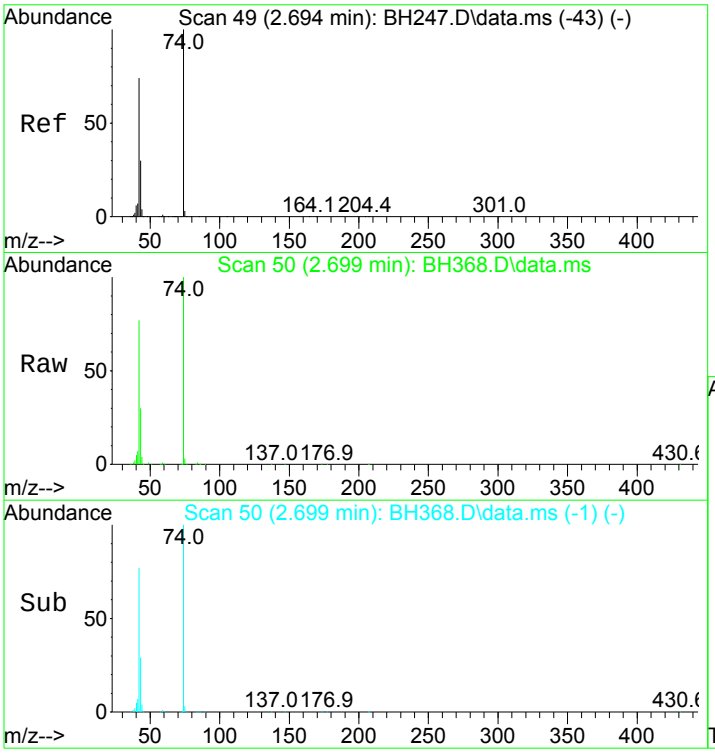


#2
Pyridine
Concen: 23.39 ppm
RT: 2.741 min Scan# 58
Delta R.T. 0.003 min
Lab File: BH368.D
Acq: 5 Aug 2016 7:57 pm

Tgt Ion: 79 Resp: 71146

Ion	Ratio	Lower	Upper
79	100		
52	58.9	31.7	91.7
50	20.2	0.0	54.1

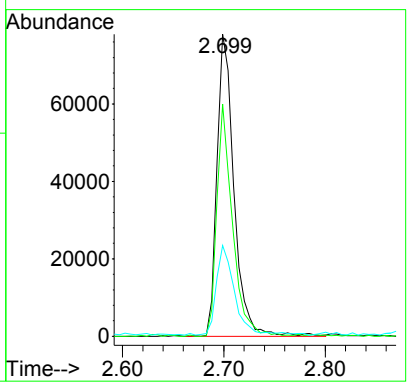




#3
N-Nitrosodimethylamine
Concen: 51.90 ppm
RT: 2.699 min Scan# 50
Delta R.T. 0.001 min
Lab File: BH368.D
Acq: 5 Aug 2016 7:57 pm

Tgt Ion: 74 Resp: 90926

Ion	Ratio	Lower	Upper
74	100		
42	76.9	44.4	104.4
43	29.1	0.3	60.3



1st BA 08/08/16
2nd mwc 08/09/16

Quantitation Report (QT Reviewed)

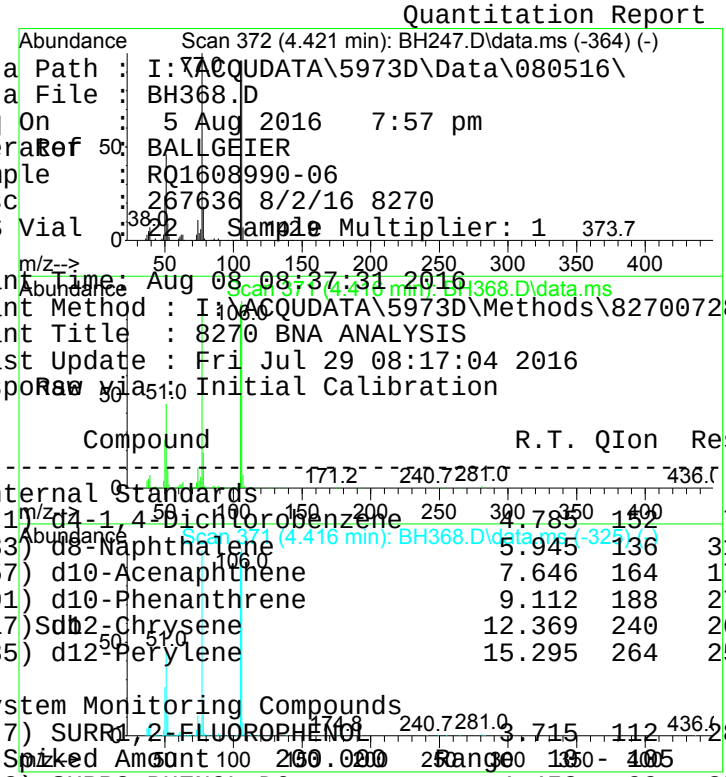
Data Path : I:\ACQUDATA\5973D\Data\080516\
Data File : BH368.D
Acq On : 5 Aug 2016 7:57 pm
Operator : BALLGEIER
Sample : RQ1608990-06
Misc : 267636 8/2/16 8270
ALS Vial : 22, Sample Multiplier: 1

Quant Time: Aug 08 09:37:31 2016
Quant Method : I:\ACQUDATA\5973D\Methods\8270072816.M
Quant Title : 8270 BNA ANALYSIS
QLast Update : Fri Jul 29 08:17:04 2016
Response via : Initial Calibration

#10
Benzaldehyde
Concen: 97.93 ppm
RT: 4.416 min Scan# 371
Delta R.T. -0.004 min
Lab File: BH368.D
Acq: 5 Aug 2016 7:57 pm

Tgt Ion:106 Resp: 178102

Ion	Ratio	Lower	Upper
106M	100		
77	99.3	72.7	134.9
51	45.3	33.2	61.6



Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) d4-1,4-Dichlorobenzene	4.785	152	76624	40.00	ppm	0.00
33) d8-Naphthalene	5.945	136	316953	40.00	ppm	0.00
57) d10-Acenaphthene	7.646	164	178618	40.00	ppm	0.00
91) d10-Phenanthrene	9.112	188	276069	40.00	ppm	0.00
117) d12-Chrysene	12.369	240	265260	40.00	ppm	-0.01
135) d12-Perylene	15.295	264	252006	40.00	ppm	-0.01
System Monitoring Compounds						
7) SURR1,2-FLUOROPHENOL	3.715	112	284921	98.97	ppm	0.00
Spiked Amount 200.000 Range 10 - 105 Recovery = 49.48%						
12) SURR2,PHENOL-D6	4.458	99	256047	76.65	ppm	0.00
Spiked Amount 200.000 Range 10 - 107 Recovery = 38.33%						
34) SURR4,NITROBENZENE-D5	5.277	82	222699	88.92	ppm	0.00
Spiked Amount 100.000 Range 31 - 110 Recovery = 88.92%						
63) SURR5,2-FLUOROBIPHENYL	6.983	172	495585	86.65	ppm	0.00
Spiked Amount 100.000 Range 31 - 118 Recovery = 86.65%						
88) SURR3,2,4,6-TRIBROMOPH...	8.427	330	131011	192.39	ppm	0.00
Spiked Amount 200.000 Range 35 - 141 Recovery = 96.19%						
124) SURR6,TERPHENYL-D14	10.797	244	567250	104.06	ppm	0.00
Spiked Amount 100.000 Range 30 - 133 Recovery = 104.06%						

Target Compounds							Qvalue
2) Pyridine	2.741	79	71146	23.39	ppm		95
3) N-Nitrosodimethylamine	2.699	74	90926	51.90	ppm		97
10) Benzaldehyde	4.416	106	178102	97.93	ppm		96
11) Aniline	4.501	93	38664	7.97	ppm		91
13) Phenol	4.469	94	149799	44.32	ppm		97
14) bis(2-Clethyl)Ether	4.544	93	227832	87.11	ppm		95
16) 2-Chlorophenol	4.608	128	245563	90.12	ppm		96
17) 1,3-Diclbenzene	4.737	146	204286	68.57	ppm		96
18) 1,4-Dichlorobenzene	4.801	146	202459	65.53	ppm		97
19) 1,2-Diclbenzene	4.934	146	256494	86.84	ppm		98
20) Benzyl Alcohol	4.897	79	167206	83.07	ppm		97
22) 2,2'-oxybis(1-Chloropr...	5.009	45	298293	80.74	ppm	#	80
23) 2-Methylphenol	4.993	108	211953	83.19	ppm		90
24) 3+4-Methylphenol	5.127	108	208782	77.78	ppm		92
25) Acetophenone	5.138	105	642055	147.46	ppm		87
26) N-Nitroso-Di-n-propyla...	5.132	70	179730	78.20	ppm		82
30) Hexachloroethane	5.234	117	76631	62.16	ppm		95
32) Alpha-terpinol	5.967	121	95722	86.84	ppm		99
35) Nitrobenzene	5.293	77	350172	141.18	ppm		100
37) Isophorone	5.507	82	488927	99.49	ppm		99
38) 2-Nitrophenol	5.587	139	131707	113.12	ppm		96
39) Benzoic Acid	5.726	105	105676	101.33	ppm		95
40) 2,4-Dimethylphenol	5.614	107	133602	52.93	ppm		97
41) bis(-2-Chloroethoxy)Me...	5.699	93	310957	99.57	ppm		97
42) 2,4-Dichlorophenol	5.812	162	209946	104.55	ppm		99
44) 1,2,4-Trichlorobenzene	5.886	180	181582	77.34	ppm		96
45) Naphthalene	5.961	128	658377	83.94	ppm		98
46) 4-Chloroaniline	6.015	127	67858	20.29	ppm		96
48) Hexachlorobutadiene	6.074	225	102374	79.92	ppm		91
50) 4-Chloro-3-methylphenol	6.486	107	223924	105.05	ppm		96
52) Caprolactam	6.362	113	23822	26.52	ppm		93
55) 2-Methylnaphthalene	6.630	142	444351	88.95	ppm		96
56) 1-Methylnaphthalene	6.726	142	446872	94.36	ppm		100

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\5973D\Data\080516\
Data File : BH368.D
Acq On : 5 Aug 2016 7:57 pm
Operator : BALLGEIER
Sample : RQ1608990-06
Misc : 267636 8/2/16 8270
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Aug 08 08:37:31 2016
Quant Method : I:\ACQUDATA\5973D\Methods\8270072816.M
Quant Title : 8270 BNA ANALYSIS
QLast Update : Fri Jul 29 08:17:04 2016
Response via : Initial Calibration

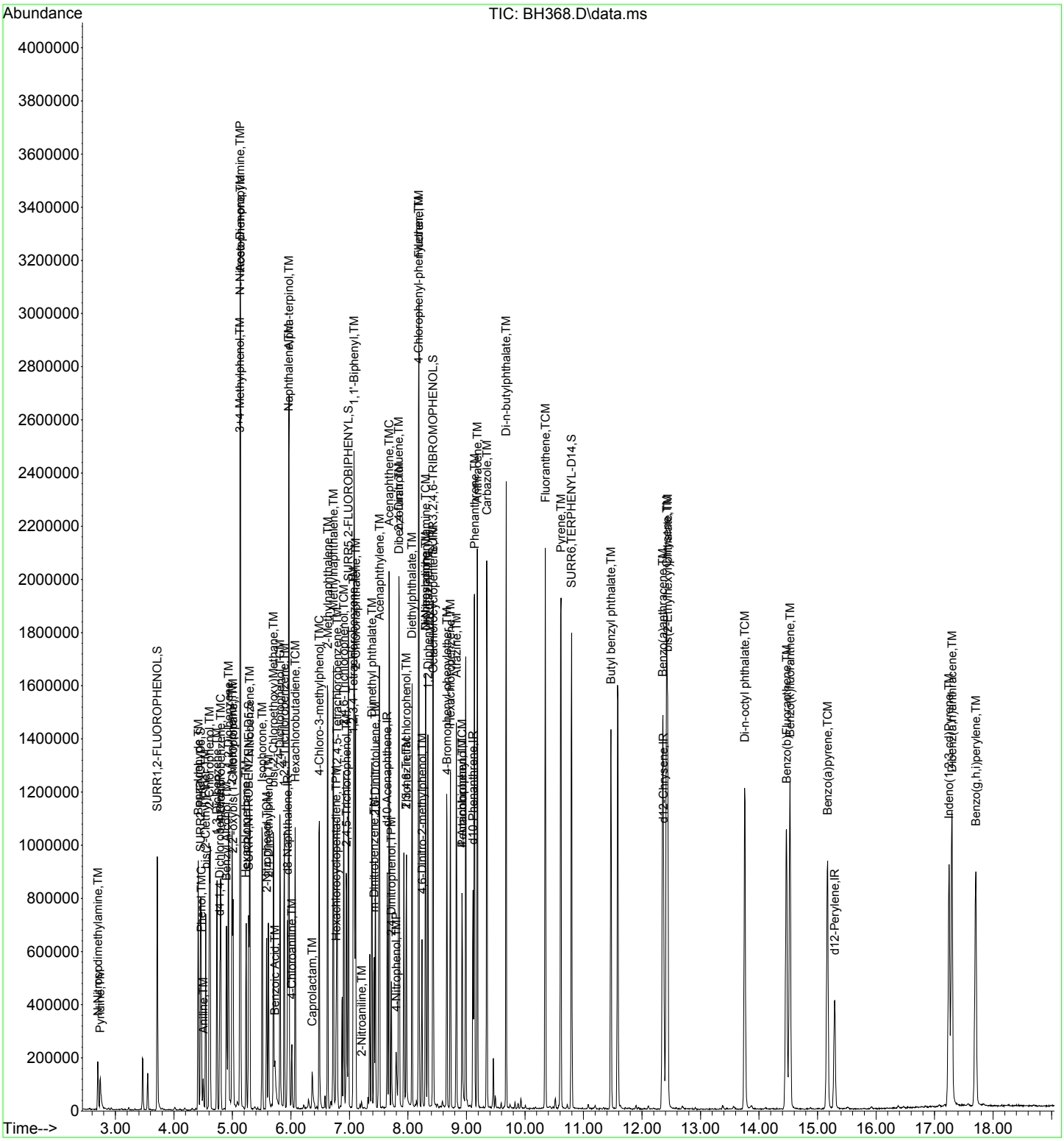
	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
58)	Hexachlorocyclopentadiene	6.774	237	49809	54.96	ppm		99
59)	1,2,4,5-Tetrachloroben...	6.790	216	177671	79.90	ppm		97
60)	1,2,3,4-Tetrachloroben...	7.069	216	177466	75.19	ppm		99
61)	2,4,6-Trichlorophenol	6.903	196	154407	110.62	ppm		97
62)	2,4,5-Trichlorophenol	6.951	196	158542	109.41	ppm		100
65)	1,1'-Biphenyl	7.079	154	707429	106.40	ppm		98
66)	2-Chloronaphthalene	7.106	162	428494	84.89	ppm		98
67)	2-Nitroaniline	7.208	65	4020	3.13	ppm		97
69)	m-Dinitrobenzene	7.422	168	74941	100.14	ppm	#	67
70)	Acenaphthylene	7.512	152	701449	90.76	ppm		99
71)	Dimethyl phthalate	7.384	163	523961	100.54	ppm		99
72)	2,6-Dinitrotoluene	7.443	165	114803	111.70	ppm		89
73)	Acenaphthene	7.678	153	469957	92.07	ppm		98
75)	2,4-Dinitrophenol	7.716	184	61738	152.44	ppm		95
76)	Dibenzofuran	7.849	168	653667	95.25	ppm		99
77)	2,4-Dinitrotoluene	7.844	165	155912	108.50	ppm		90
78)	4-Nitrophenol	7.801	65	42459	53.04	ppm		92
82)	2,3,4,6-Tetrachlorophenol	7.972	232	113265	112.61	ppm		99
83)	Fluorene	8.186	166	502827	89.13	ppm		98
84)	4-Chlorophenyl-phenyle...	8.181	204	244983	95.45	ppm		96
85)	Diethylphthalate	8.069	149	551858	101.36	ppm		98
90)	Octachlorocyclopentene	8.432	307	60678	82.24	ppm		95
92)	Thionazin	7.972	107	9054	9.18	ppm		58
93)	4,6-Dinitro-2-methylph...	8.240	198	86015	134.23	ppm		90
94)	Diphenylamine	8.304	169	417991	92.17	ppm		98
95)	1,2 Diphenylhydrazine	8.341	77	528578	90.35	ppm		96
96)	N-Nitrosodiphenylamine	8.304	169	417991	92.17	ppm		98
101)	4-Bromophenyl-phenylether	8.668	248	136573	99.52	ppm		96
102)	Hexachlorobenzene	8.727	284	148447	95.31	ppm		96
104)	Atrazine	8.828	215	77816	121.75	ppm		88
105)	Pentachlorophenol	8.924	266	99203	152.37	ppm		94
106)	4-Aminobiphenyl	8.924	169	13223	2.44	ppm		80
111)	Phenanthrene	9.138	178	745803	102.12	ppm		100
112)	Anthracene	9.187	178	726685	99.26	ppm		98
113)	Carbazole	9.347	167	797864	102.78	ppm		99
114)	Di-n-butylphthalate	9.679	149	1047785	119.63	ppm		100
116)	Fluoranthene	10.347	202	844978	108.57	ppm		100
123)	Pyrene	10.615	202	879425	105.02	ppm		99
128)	Butyl benzyl phthalate	11.470	149	441073	104.28	ppm		96
132)	Benzo(a)anthracene	12.353	228	785249	104.07	ppm		99
133)	Chrysene	12.422	228	785503	108.89	ppm		99
134)	bis(2-Ethylhexyl)phtha...	12.439	149	619196	102.70	ppm		99
136)	Di-n-octyl phthalate	13.754	149	1059132	107.03	ppm		100
138)	Benzo(b)Fluoranthene	14.471	252	776846	106.93	ppm		95
139)	Benzo(k)fluoranthene	14.530	252	783388	115.82	ppm		96
140)	Benzo(a)pyrene	15.172	252	647549	103.77	ppm		97
142)	Indeno(1,2,3-cd)Pyrene	17.247	276	611079	123.96	ppm		96
143)	Dibenz(a,h)anthracene	17.300	278	696709	123.65	ppm		96
144)	Benzo(g,h,i)perylene	17.707	276	612967	124.03	ppm		99

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

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\5973D\Data\080516\
Data File : BH368.D
Acq On : 5 Aug 2016 7:57 pm
Operator : BALLGEIER
Sample : RQ1608990-06
Misc : 267636 8/2/16 8270
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Aug 08 08:37:31 2016
Quant Method : I:\ACQUDATA\5973D\Methods\8270072816.M
Quant Title : 8270 BNA ANALYSIS
QLast Update : Fri Jul 29 08:17:04 2016
Response via : Initial Calibration



1st DM 08/10/16
2nd BA 08/10/16

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\5973D\Data\080916\
Data File : BH417.D
Acq On : 9 Aug 2016 2:28 pm
Operator : J.Misiurewicz
Sample : RQ1609061-04 Inst : 5973D
Misc : 267724 8270D SOIL R7963-016MS IV
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Aug 10 08:50:20 2016
Quant Method : I:\ACQUDATA\5973D\Methods\8270080816.M
Quant Title : 8270 BNA ANALYSIS
QLast Update : Tue Aug 09 10:29:59 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) d4-1,4-Dichlorobenzene	4.785	152	81781	40.00	ppm		0.00
33) d8-Naphthalene	5.940	136	339534	40.00	ppm		0.00
57) d10-Acenaphthene	7.646	164	185655	40.00	ppm		0.00
91) d10-Phenanthrene	9.139	188	254918	40.00	ppm		0.03
117) d12-Chrysene	12.396	240	163519	40.00	ppm		0.03
135) d12-Perylene	15.295	264	221265	40.00	ppm		0.00
System Monitoring Compounds							
7) SURR1,2-FLUOROPHENOL	3.726	112	82978	26.14	ppm		0.00
Spiked Amount 200.000	Range 16 - 129		Recovery = 13.07%#				
12) SURR2,PHENOL-D6	4.458	99	119175	32.39	ppm		0.00
Spiked Amount 200.000	Range 10 - 145		Recovery = 16.20%				
34) SURR4,NITROBENZENE-D5	5.271	82	46539	14.91	ppm		0.00
Spiked Amount 100.000	Range 10 - 95		Recovery = 14.91%				
63) SURR5,2-FLUOROBIPHENYL	6.978	172	107141	16.69	ppm		0.00
Spiked Amount 100.000	Range 10 - 102		Recovery = 16.69%				
88) SURR3,2,4,6-TRIBROMOPH...	8.422	330	30550	38.49	ppm		0.00
Spiked Amount 200.000	Range 13 - 128		Recovery = 19.25%				
124) SURR6,TERPHENYL-D14	10.845	244	114293	31.33	ppm		0.05
Spiked Amount 100.000	Range 16 - 126		Recovery = 31.33%				
Target Compounds							Qvalue
2) Pyridine	2.747	79	26715	8.18	ppm		94
3) N-Nitrosodimethylamine	2.709	74	20272	10.78	ppm		92
10) Benzaldehyde	4.416	106	29422	26.15	ppm		98
11) Aniline	4.501	93	50836	9.83	ppm		88
13) Phenol	4.475	94	64981	17.38	ppm		90
14) bis(2-Clethyl)Ether	4.544	93	40732	14.01	ppm		93
16) 2-Chlorophenol	4.608	128	47517	15.43	ppm		94
17) 1,3-Diclbenzene	4.737	146	43850	12.80	ppm		96
18) 1,4-Dichlorobenzene	4.795	146	53386	15.49	ppm		92
19) 1,2-Diclbenzene	4.935	146	75561	22.72	ppm		95
20) Benzyl Alcohol	4.897	79	34182	16.45	ppm		95
22) 2,2'-oxybis(1-Chloropr...	5.009	45	49318	12.54	ppm	#	72
23) 2-Methylphenol	4.993	108	49296	17.44	ppm		88
25) Acetophenone	5.132	105	113538	24.69	ppm		93
26) N-Nitroso-Di-n-propyla...	5.122	70	30818	13.21	ppm	#	74
30) Hexachloroethane	5.234	117	14994	10.65	ppm		99
32) Alpha-terpinol	5.961	121	17296	14.79	ppm		98
35) Nitrobenzene	5.293	77	56778	18.65	ppm		99
37) Isophorone	5.507	82	86547	15.70	ppm		98
38) 2-Nitrophenol	5.582	139	22030	13.86	ppm		93
40) 2,4-Dimethylphenol	5.614	107	55647	19.54	ppm		92
41) bis(-2-Chloroethoxy)Me...	5.699	93	57538	16.00	ppm		98
42) 2,4-Dichlorophenol	5.817	162	40639	17.14	ppm		90
44) 1,2,4-Trichlorobenzene	5.887	180	46676	17.06	ppm		95
45) Naphthalene	5.961	128	137644	15.33	ppm		99
46) 4-Chloroaniline	6.015	127	60681	16.13	ppm		97
48) Hexachlorobutadiene	6.068	225	19394	12.91	ppm		97
50) 4-Chloro-3-methylphenol	6.491	107	53545	22.00	ppm		98
52) Caprolactam	6.336	113	19096	21.30	ppm		84
55) 2-Methylnaphthalene	6.625	142	99032	16.88	ppm		99
56) 1-Methylnaphthalene	6.721	142	102062	18.61	ppm		99
58) Hexachlorocyclopentadiene	6.774	237	4436	7.25	ppm		91
59) 1,2,4,5-Tetrachloroben...	6.785	216	44030	16.97	ppm		96

1st DM 08/10/16
2nd BA 08/10/16

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\5973D\Data\080916\
Data File : BH417.D
Acq On : 9 Aug 2016 2:28 pm
Operator : J.Misiurewicz
Sample : RQ1609061-04 Inst : 5973D
Misc : 267724 8270D SOIL R7963-016MS IV
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Aug 10 08:50:20 2016
Quant Method : I:\ACQUDATA\5973D\Methods\8270080816.M
Quant Title : 8270 BNA ANALYSIS
QLast Update : Tue Aug 09 10:29:59 2016
Response via : Initial Calibration

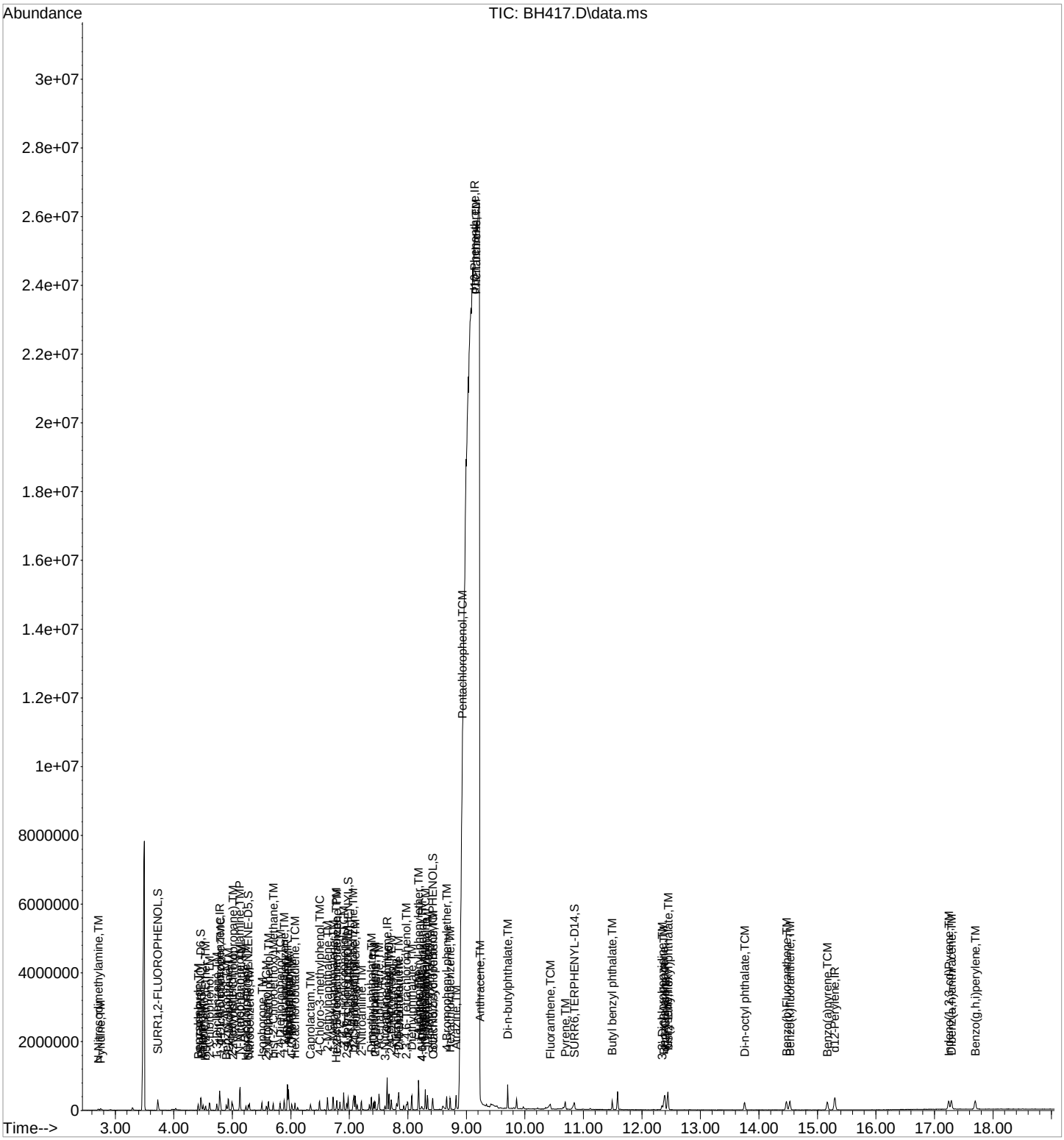
	Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
60)	1,2,3,4-Tetrachloroben...	7.063	216	42214	16.00 ppm		97
61)	2,4,6-Trichlorophenol	6.903	196	27002	16.79 ppm		94
62)	2,4,5-Trichlorophenol	6.956	196	30745	18.49 ppm		92
65)	1,1'-Biphenyl	7.079	154	121920	16.65 ppm		96
66)	2-Chloronaphthalene	7.101	162	106483	18.81 ppm		95
67)	2-Nitroaniline	7.208	65	34996	23.91 ppm		88
69)	m-Dinitrobenzene	7.416	168	23996	24.03 ppm		89
70)	Acenaphthylene	7.507	152	180915	20.83 ppm		98
71)	Dimethyl phthalate	7.379	163	147978	26.04 ppm		98
72)	2,6-Dinitrotoluene	7.438	165	32806	25.33 ppm		95
73)	Acenaphthene	7.678	153	111476	19.34 ppm		97
74)	3-Nitroaniline	7.609	138	15835	9.94 ppm		92
75)	2,4-Dinitrophenol	7.716	184	51756	95.05 ppm		95
76)	Dibenzofuran	7.850	168	166091	21.79 ppm		97
77)	2,4-Dinitrotoluene	7.839	165	44376	27.52 ppm		91
78)	4-Nitrophenol	7.807	65	41933	41.30 ppm		90
82)	2,3,4,6-Tetrachlorophenol	7.973	232	15881	13.65 ppm		89
83)	Fluorene	8.187	166	137318	22.43 ppm		99
84)	4-Chlorophenyl-phenyle...	8.181	204	61330	21.35 ppm		96
85)	Diethylphthalate	8.069	149	154048	26.60 ppm		96
86)	4-Nitroaniline	8.235	138	28255	17.15 ppm		91
90)	Octachlorocyclopentene	8.433	307	6658	8.07 ppm		90
93)	4,6-Dinitro-2-methylph...	8.240	198	9072	11.90 ppm		82
94)	Diphenylamine	8.299	169	128208	29.71 ppm		96
95)	1,2 Diphenylhydrazine	8.336	77	145939	26.99 ppm		95
96)	N-Nitrosodiphenylamine	8.299	169	128208	29.70 ppm		96
101)	4-Bromophenyl-phenylether	8.663	248	38714	27.83 ppm		99
102)	Hexachlorobenzene	8.721	284	39863	24.93 ppm		99
104)	Atrazine	8.823	215	21755	33.05 ppm	#	92
105)	Pentachlorophenol	8.930	266	5309	7.85 ppm		98
111)	Phenanthrene	9.165	178	171289	23.53 ppm		98
112)	Anthracene	9.229	178	188531	25.75 ppm		95
114)	Di-n-butylphthalate	9.706	149	308647	36.51 ppm		99
116)	Fluoranthene	10.433	202	146163	18.96 ppm		95
123)	Pyrene	10.690	202	127564	22.47 ppm		100
128)	Butyl benzyl phthalate	11.492	149	69435	25.24 ppm		96
131)	3,3'-Dichlorobenzidine	12.342	252	37194	18.91 ppm		92
132)	Benzo(a)anthracene	12.374	228	127642	24.83 ppm		97
133)	Chrysene	12.439	228	130524	26.76 ppm		99
134)	bis(2-Ethylhexyl)phtha...	12.449	149	125722	32.37 ppm		100
136)	Di-n-octyl phthalate	13.754	149	186240	21.89 ppm		99
138)	Benzo(b)Fluoranthene	14.471	252	159775	23.21 ppm		93
139)	Benzo(k)fluoranthene	14.530	252	159408	25.00 ppm		94
140)	Benzo(a)pyrene	15.166	252	148302	25.00 ppm		95
142)	Indeno(1,2,3-cd)Pyrene	17.247	276	145670	28.94 ppm		98
143)	Dibenz(a,h)anthracene	17.290	278	151181	26.42 ppm		94
144)	Benzo(g,h,i)perylene	17.702	276	155709	30.29 ppm		94

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

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\5973D\Data\080916\
Data File : BH417.D
Acq On : 9 Aug 2016 2:28 pm
Operator : J.Misiurewicz
Sample : RQ1609061-04 Inst : 5973D
Misc : 267724 8270D SOIL R7963-016MS IV
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Aug 10 08:50:20 2016
Quant Method : I:\ACQUDATA\5973D\Methods\8270080816.M
Quant Title : 8270 BNA ANALYSIS
QLast Update : Tue Aug 09 10:29:59 2016
Response via : Initial Calibration



1st BA 08/08/16
2nd MW 08/09/16

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\5973D\Data\080516\
Data File : BH369.D
Acq On : 5 Aug 2016 8:24 pm
Operator : BALLGEIER
Sample : RQ1608990-~~06~~ -07
Misc : 267636 8/2/16 8270
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Aug 08 08:37:49 2016
Quant Method : I:\ACQUDATA\5973D\Methods\8270072816.M
Quant Title : 8270 BNA ANALYSIS
QLast Update : Fri Jul 29 08:17:04 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) d4-1,4-Dichlorobenzene	4.785	152	77493	40.00	ppm	0.00
33) d8-Naphthalene	5.946	136	324140	40.00	ppm	0.00
57) d10-Acenaphthene	7.646	164	180211	40.00	ppm	0.00
91) d10-Phenanthrene	9.112	188	275092	40.00	ppm	0.00
117) d12-Chrysene	12.375	240	266662	40.00	ppm	0.00
135) d12-Perylene	15.290	264	267546	40.00	ppm	-0.02
System Monitoring Compounds						
7) SURR1,2-FLUOROPHENOL	3.715	112	294970	101.32	ppm	0.00
Spiked Amount 200.000	Range 10 - 105		Recovery = 50.66%			
12) SURR2,PHENOL-D6	4.453	99	264184	78.20	ppm	0.00
Spiked Amount 200.000	Range 10 - 107		Recovery = 39.10%			
34) SURR4,NITROBENZENE-D5	5.277	82	221556	86.50	ppm	0.00
Spiked Amount 100.000	Range 31 - 110		Recovery = 86.50%			
63) SURR5,2-FLUOROBIPHENYL	6.983	172	495972	85.95	ppm	0.00
Spiked Amount 100.000	Range 31 - 118		Recovery = 85.95%			
88) SURR3,2,4,6-TRIBROMOPH...	8.427	330	130596	190.09	ppm	0.00
Spiked Amount 200.000	Range 35 - 141		Recovery = 95.05%			
124) SURR6,TERPHENYL-D14	10.797	244	563258	102.78	ppm	0.00
Spiked Amount 100.000	Range 30 - 133		Recovery = 102.78%			
Target Compounds						Qvalue
2) Pyridine	2.736	79	106522	34.63	ppm	97
3) N-Nitrosodimethylamine	2.699	74	94418	53.29	ppm	93
10) Benzaldehyde	4.416	106	178023	96.79	ppm	97
11) Aniline	4.501	93	121451	24.77	ppm	94
13) Phenol	4.469	94	157966	46.22	ppm	97
14) bis(2-Clethyl)Ether	4.544	93	234115	88.51	ppm	93
16) 2-Chlorophenol	4.603	128	253175	91.87	ppm	94
17) 1,3-Diclbenzene	4.737	146	207732	68.94	ppm	97
18) 1,4-Dichlorobenzene	4.801	146	206074	65.95	ppm	96
19) 1,2-Diclbenzene	4.935	146	274334	91.84	ppm	98
20) Benzyl Alcohol	4.897	79	176030	86.47	ppm	97
23) 2-Methylphenol	4.993	108	216198	83.90	ppm	92
24) 3+4-Methylphenol	5.127	108	213714	78.73	ppm	95
25) Acetophenone	5.138	105	660610	150.02	ppm	86
26) N-Nitroso-Di-n-propyla...	5.127	70	187129	80.51	ppm	85
30) Hexachloroethane	5.234	117	80503	64.57	ppm	94
32) Alpha-terpinol	5.967	121	96255	86.34	ppm	98
35) Nitrobenzene	5.293	77	404898	159.63	ppm	97
37) Isophorone	5.507	82	505017	100.49	ppm	100
38) 2-Nitrophenol	5.587	139	139865	117.47	ppm	98
39) Benzoic Acid	5.726	105	111361	104.41	ppm	91
40) 2,4-Dimethylphenol	5.614	107	152727	59.16	ppm	92
41) bis(-2-Chloroethoxy)Me...	5.699	93	326160	102.12	ppm	98
42) 2,4-Dichlorophenol	5.812	162	218240	106.27	ppm	97
44) 1,2,4-Trichlorobenzene	5.887	180	184503	76.84	ppm	98
45) Naphthalene	5.962	128	674868	84.14	ppm	98
46) 4-Chloroaniline	6.015	127	105155	30.75	ppm	99
48) Hexachlorobutadiene	6.074	225	108886	83.11	ppm	99
50) 4-Chloro-3-methylphenol	6.480	107	223843	102.68	ppm	96
52) Caprolactam	6.363	113	25739	28.02	ppm	95
55) 2-Methylnaphthalene	6.625	142	450262	88.14	ppm	99
56) 1-Methylnaphthalene	6.726	142	458695	94.71	ppm	99
58) Hexachlorocyclopentadiene	6.775	237	52919	57.39	ppm	95

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\5973D\Data\080516\
Data File : BH369.D
Acq On : 5 Aug 2016 8:24 pm
Operator : BALLGEIER
Sample : RQ1608990-06
Misc : 267636 8/2/16 8270
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Aug 08 08:37:49 2016
Quant Method : I:\ACQUDATA\5973D\Methods\8270072816.M
Quant Title : 8270 BNA ANALYSIS
QLast Update : Fri Jul 29 08:17:04 2016
Response via : Initial Calibration

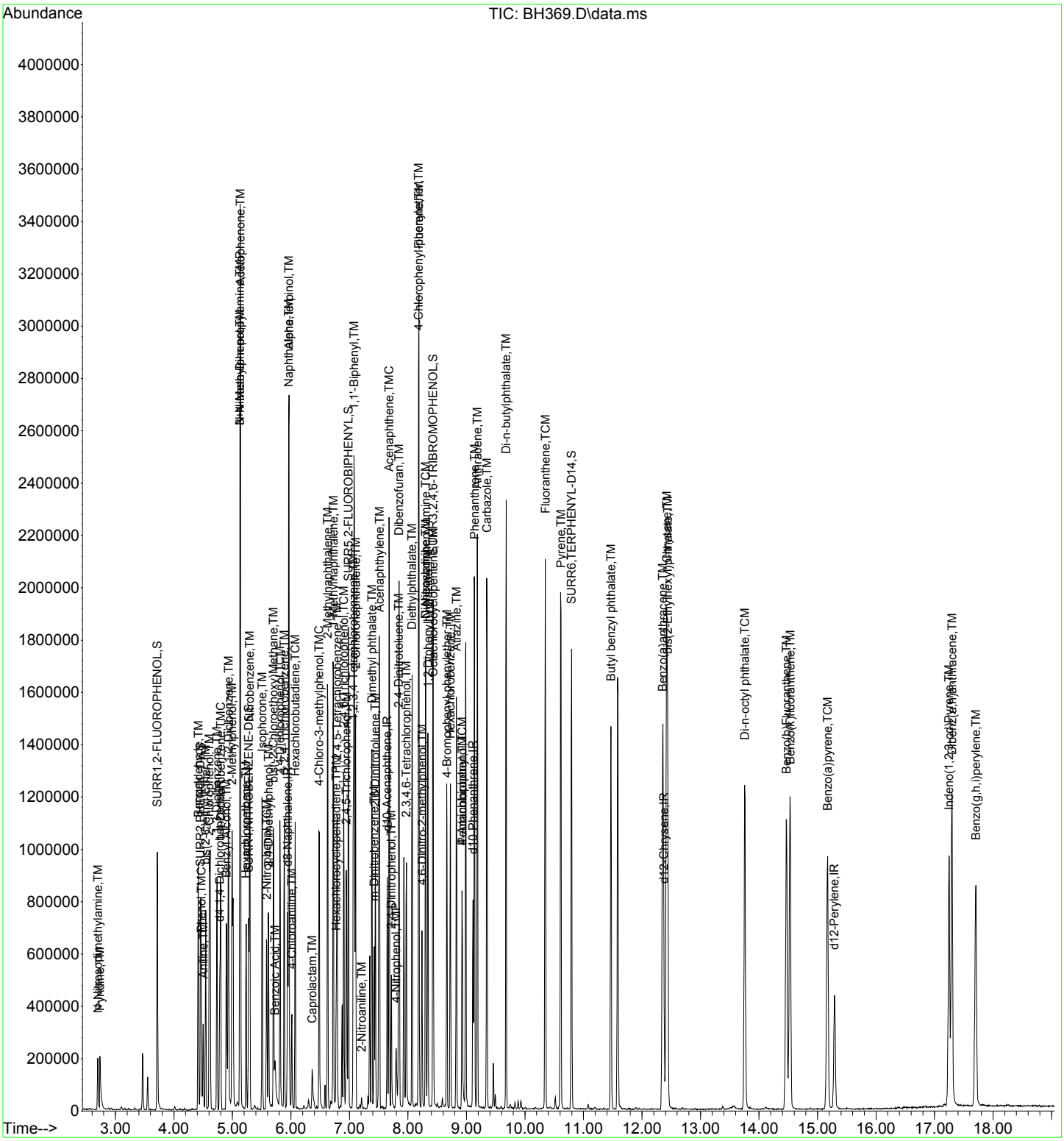
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
59)	1,2,4,5-Tetrachloroben...	6.791	216	190904	85.09	ppm	99
60)	1,2,3,4-Tetrachloroben...	7.069	216	188006	78.96	ppm	97
61)	2,4,6-Trichlorophenol	6.903	196	158159	112.30	ppm	92
62)	2,4,5-Trichlorophenol	6.946	196	161482	110.45	ppm	98
65)	1,1'-Biphenyl	7.079	154	744361	110.96	ppm	98
66)	2-Chloronaphthalene	7.106	162	440061	86.41	ppm	100
67)	2-Nitroaniline	7.208	65	5968	4.61	ppm	87
69)	m-Dinitrobenzene	7.422	168	78444	102.96	ppm	81
70)	Acenaphthylene	7.513	152	725266	93.02	ppm	98
71)	Dimethyl phthalate	7.384	163	551897	104.96	ppm	99
72)	2,6-Dinitrotoluene	7.443	165	121364	117.04	ppm	89
73)	Acenaphthene	7.678	153	490960	95.34	ppm	99
75)	2,4-Dinitrophenol	7.716	184	69058	163.25	ppm	87
76)	Dibenzofuran	7.850	168	677916	97.91	ppm	100
77)	2,4-Dinitrotoluene	7.839	165	167908	114.14	ppm	91
78)	4-Nitrophenol	7.796	65	44967	55.68	ppm	95
82)	2,3,4,6-Tetrachlorophenol	7.973	232	117019	115.31	ppm	96
83)	Fluorene	8.187	166	520464	91.44	ppm	99
84)	4-Chlorophenyl-phenyle...	8.181	204	248652	96.02	ppm	94
85)	Diethylphthalate	8.069	149	581467	105.85	ppm	99
90)	Octachlorocyclopentene	8.433	307	65500	87.99	ppm	95
93)	4,6-Dinitro-2-methylph...	8.240	198	92952	142.56	ppm	91
94)	Diphenylamine	8.304	169	436147	96.51	ppm	99
95)	1,2 Diphenylhydrazine	8.342	77	542446	93.05	ppm	97
96)	N-Nitrosodiphenylamine	8.304	169	436147	96.51	ppm	99
101)	4-Bromophenyl-phenylether	8.668	248	140024	102.40	ppm	93
102)	Hexachlorobenzene	8.727	284	149002	96.01	ppm	93
104)	Atrazine	8.828	215	80675	126.67	ppm	91
105)	Pentachlorophenol	8.925	266	100900	155.53	ppm	98
106)	4-Aminobiphenyl	8.925	169	13665	2.53	ppm	90
111)	Phenanthrene	9.139	178	754050	103.62	ppm	100
112)	Anthracene	9.187	178	772179	105.85	ppm	98
113)	Carbazole	9.347	167	819630	105.96	ppm	98
114)	Di-n-butylphthalate	9.679	149	1067118	122.27	ppm	100
116)	Fluoranthene	10.347	202	857233	110.53	ppm	98
123)	Pyrene	10.615	202	891328	105.88	ppm	99
128)	Butyl benzyl phthalate	11.471	149	439978	103.47	ppm	98
132)	Benzo(a)anthracene	12.353	228	795385	104.86	ppm	98
133)	Chrysene	12.423	228	810308	111.74	ppm	97
134)	bis(2-Ethylhexyl)phtha...	12.439	149	623603	102.88	ppm	99
136)	Di-n-octyl phthalate	13.755	149	1067081	101.57	ppm	99
138)	Benzo(b)Fluoranthene	14.466	252	791593	102.63	ppm	94
139)	Benzo(k)fluoranthene	14.535	252	792636	110.38	ppm	94
140)	Benzo(a)pyrene	15.172	252	677993	102.34	ppm	95
142)	Indeno(1,2,3-cd)Pyrene	17.247	276	588778	112.50	ppm	99
143)	Dibenz(a,h)anthracene	17.301	278	734031	122.71	ppm	97
144)	Benzo(g,h,i)perylene	17.707	276	593428	113.10	ppm	95

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

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\5973D\Data\080516\
Data File : BH369.D
Acq On : 5 Aug 2016 8:24 pm
Operator : BALLGEIER
Sample : RQ1608990-06
Misc : 267636 8/2/16 8270
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Aug 08 08:37:49 2016
Quant Method : I:\ACQUDATA\5973D\Methods\8270072816.M
Quant Title : 8270 BNA ANALYSIS
QLast Update : Fri Jul 29 08:17:04 2016
Response via : Initial Calibration



1st DM 08/10/16
2nd BA 08/10/16

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\5973D\Data\080916\
Data File : BH418.D
Acq On : 9 Aug 2016 2:56 pm
Operator : J.Misiurewicz
Sample : RQ1609061-05 Inst : 5973D
Misc : 267724 8270D SOIL R7963-016MSD IV
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Aug 10 08:52:54 2016
Quant Method : I:\ACQUDATA\5973D\Methods\8270080816.M
Quant Title : 8270 BNA ANALYSIS
QLast Update : Tue Aug 09 10:29:59 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) d4-1,4-Dichlorobenzene	4.785	152	86659	40.00	ppm	0.00
33) d8-Naphthalene	5.946	136	368279	40.00	ppm	0.00
57) d10-Acenaphthene	7.646	164	196725	40.00	ppm	0.00
91) d10-Phenanthrene	9.133	188	334405	40.00	ppm	0.02
117) d12-Chrysene	12.380	240	257652	40.00	ppm	0.01
135) d12-Perylene	15.290	264	279925	40.00	ppm	0.00
System Monitoring Compounds						
7) SURR1,2-FLUOROPHENOL	3.731	112	132343	39.34	ppm	0.01
Spiked Amount 200.000	Range 16 - 129		Recovery = 19.67%			
12) SURR2,PHENOL-D6	4.459	99	184263	47.26	ppm	0.00
Spiked Amount 200.000	Range 10 - 145		Recovery = 23.63%			
34) SURR4,NITROBENZENE-D5	5.272	82	83431	24.64	ppm	0.00
Spiked Amount 100.000	Range 10 - 95		Recovery = 24.64%			
63) SURR5,2-FLUOROBIPHENYL	6.983	172	161007	23.67	ppm	0.00
Spiked Amount 100.000	Range 10 - 102		Recovery = 23.67%			
88) SURR3,2,4,6-TRIBROMOPH...	8.427	330	24592	29.24	ppm	0.00
Spiked Amount 200.000	Range 13 - 128		Recovery = 14.62%			
124) SURR6,TERPHENYL-D14	10.807	244	211020	36.71	ppm	0.01
Spiked Amount 100.000	Range 16 - 126		Recovery = 36.71%			
Target Compounds						Qvalue
2) Pyridine	2.742	79	50746	14.67	ppm	95
3) N-Nitrosodimethylamine	2.704	74	36471	18.29	ppm	98
10) Benzaldehyde	4.416	106	49316	41.37	ppm	91
11) Aniline	4.501	93	110225	20.11	ppm	94
13) Phenol	4.469	94	94853	23.94	ppm	93
14) bis(2-Clethyl)Ether	4.544	93	74000	24.01	ppm	94
16) 2-Chlorophenol	4.608	128	73078	22.39	ppm	97
17) 1,3-Diclbenzene	4.737	146	74786	20.61	ppm	95
18) 1,4-Dichlorobenzene	4.801	146	81245	22.25	ppm	98
19) 1,2-Diclbenzene	4.935	146	87265	24.76	ppm	96
20) Benzyl Alcohol	4.897	79	55950	25.41	ppm	97
22) 2,2'-oxybis(1-Chloropr...	5.010	45	90812	21.79	ppm #	69
23) 2-Methylphenol	4.994	108	70677	23.60	ppm	86
25) Acetophenone	5.133	105	194915	40.00	ppm	90
26) N-Nitroso-Di-n-propyla...	5.127	70	51990	21.03	ppm #	81
30) Hexachloroethane	5.234	117	27104	18.17	ppm	81
32) Alpha-terpinol	5.962	121	27324	22.05	ppm	91
35) Nitrobenzene	5.293	77	89463	27.10	ppm	97
37) Isophorone	5.507	82	138614	23.18	ppm	98
38) 2-Nitrophenol	5.582	139	23251	13.48	ppm	95
40) 2,4-Dimethylphenol	5.619	107	78325	25.35	ppm	97
41) bis(-2-Chloroethoxy)Me...	5.700	93	93157	23.88	ppm	99
42) 2,4-Dichlorophenol	5.817	162	51137	19.88	ppm	90
44) 1,2,4-Trichlorobenzene	5.887	180	76782	25.87	ppm	96
45) Naphthalene	5.962	128	235943	24.23	ppm	99
46) 4-Chloroaniline	6.015	127	101829	24.95	ppm	96
48) Hexachlorobutadiene	6.074	225	38084	23.37	ppm	98
50) 4-Chloro-3-methylphenol	6.491	107	70430	26.67	ppm	95
52) Caprolactam	6.336	113	24817	25.53	ppm	95
55) 2-Methylnaphthalene	6.625	142	157119	24.70	ppm	98
56) 1-Methylnaphthalene	6.721	142	155476	26.14	ppm	96
58) Hexachlorocyclopentadiene	6.775	237	8124	10.56	ppm	96
59) 1,2,4,5-Tetrachloroben...	6.785	216	74915	27.25	ppm	95

1st DM 08/10/16
2nd BA 08/10/16

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\5973D\Data\080916\
Data File : BH418.D
Acq On : 9 Aug 2016 2:56 pm
Operator : J.Misiurewicz
Sample : RQ1609061-05 Inst : 5973D
Misc : 267724 8270D SOIL R7963-016MSD IV
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Aug 10 08:52:54 2016
Quant Method : I:\ACQUDATA\5973D\Methods\8270080816.M
Quant Title : 8270 BNA ANALYSIS
QLast Update : Tue Aug 09 10:29:59 2016
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
60)	1,2,3,4-Tetrachloroben...	7.063	216	66900	23.93 ppm	97
61)	2,4,6-Trichlorophenol	6.908	196	20195	11.85 ppm	96
62)	2,4,5-Trichlorophenol	6.956	196	26961	15.31 ppm	92
65)	1,1'-Biphenyl	7.080	154	179993	23.20 ppm	97
66)	2-Chloronaphthalene	7.101	162	167639	27.95 ppm	98
67)	2-Nitroaniline	7.208	65	54143	34.91 ppm	96
69)	m-Dinitrobenzene	7.416	168	33022	31.21 ppm	94
70)	Acenaphthylene	7.507	152	251971	27.38 ppm	100
71)	Dimethyl phthalate	7.379	163	209146	34.73 ppm	99
72)	2,6-Dinitrotoluene	7.443	165	46687	34.01 ppm	94
73)	Acenaphthene	7.679	153	163966	26.85 ppm	98
74)	3-Nitroaniline	7.609	138	48929	28.99 ppm	99
75)	2,4-Dinitrophenol	7.716	184	7262	21.17 ppm	80
76)	Dibenzofuran	7.850	168	231361	28.65 ppm	100
77)	2,4-Dinitrotoluene	7.839	165	70398	41.20 ppm	90
78)	4-Nitrophenol	7.812	65	13548	12.59 ppm	85
82)	2,3,4,6-Tetrachlorophenol	7.973	232	10194	8.27 ppm	96
83)	Fluorene	8.187	166	200219	30.87 ppm	99
84)	4-Chlorophenyl-phenyle...	8.181	204	86686	28.48 ppm	99
85)	Diethylphthalate	8.069	149	217876	35.50 ppm	98
86)	4-Nitroaniline	8.219	138	49376	28.28 ppm	94
90)	Octachlorocyclopentene	8.427	307	10982	12.56 ppm	94
93)	4,6-Dinitro-2-methylph...	8.240	198	3455	3.45 ppm	70
94)	Diphenylamine	8.299	169	189924	33.55 ppm	99
95)	1,2 Diphenylhydrazine	8.336	77	211532	29.82 ppm	98
96)	N-Nitrosodiphenylamine	8.299	169	189924	33.54 ppm	99
101)	4-Bromophenyl-phenylether	8.663	248	54305	29.76 ppm	97
102)	Hexachlorobenzene	8.727	284	58264	27.78 ppm	90
104)	Atrazine	8.829	215	34322	39.75 ppm	96
105)	Pentachlorophenol	8.930	266	4737	5.34 ppm	86
111)	Phenanthrene	9.160	178	344424	36.06 ppm	94
112)	Anthracene	9.208	178	347194	36.15 ppm	98
113)	Carbazole	9.385	167	307704	32.26 ppm	98
114)	Di-n-butylphthalate	9.684	149	469569	42.34 ppm	100
116)	Fluoranthene	10.374	202	288926	28.57 ppm	98
122)	Benzidine	10.524	184	247547	44.59 ppm	98
123)	Pyrene	10.636	202	281061	31.41 ppm	98
128)	Butyl benzyl phthalate	11.476	149	160606	37.05 ppm	100
131)	3,3'-Dichlorobenzidine	12.327	252	118123	38.11 ppm	97
132)	Benzo(a)anthracene	12.359	228	304887	37.64 ppm	98
133)	Chrysene	12.423	228	285052	37.09 ppm	98
134)	bis(2-Ethylhexyl)phtha...	12.439	149	241078	39.39 ppm	99
136)	Di-n-octyl phthalate	13.755	149	378293	35.14 ppm	98
138)	Benzo(b)Fluoranthene	14.466	252	305356	35.07 ppm	97
139)	Benzo(k)fluoranthene	14.525	252	307725	38.14 ppm	99
140)	Benzo(a)pyrene	15.167	252	292074	38.91 ppm	99
142)	Indeno(1,2,3-cd)Pyrene	17.242	276	257071	40.37 ppm	99
143)	Dibenz(a,h)anthracene	17.290	278	261907	36.18 ppm	97
144)	Benzo(g,h,i)perylene	17.702	276	273127	41.99 ppm	97

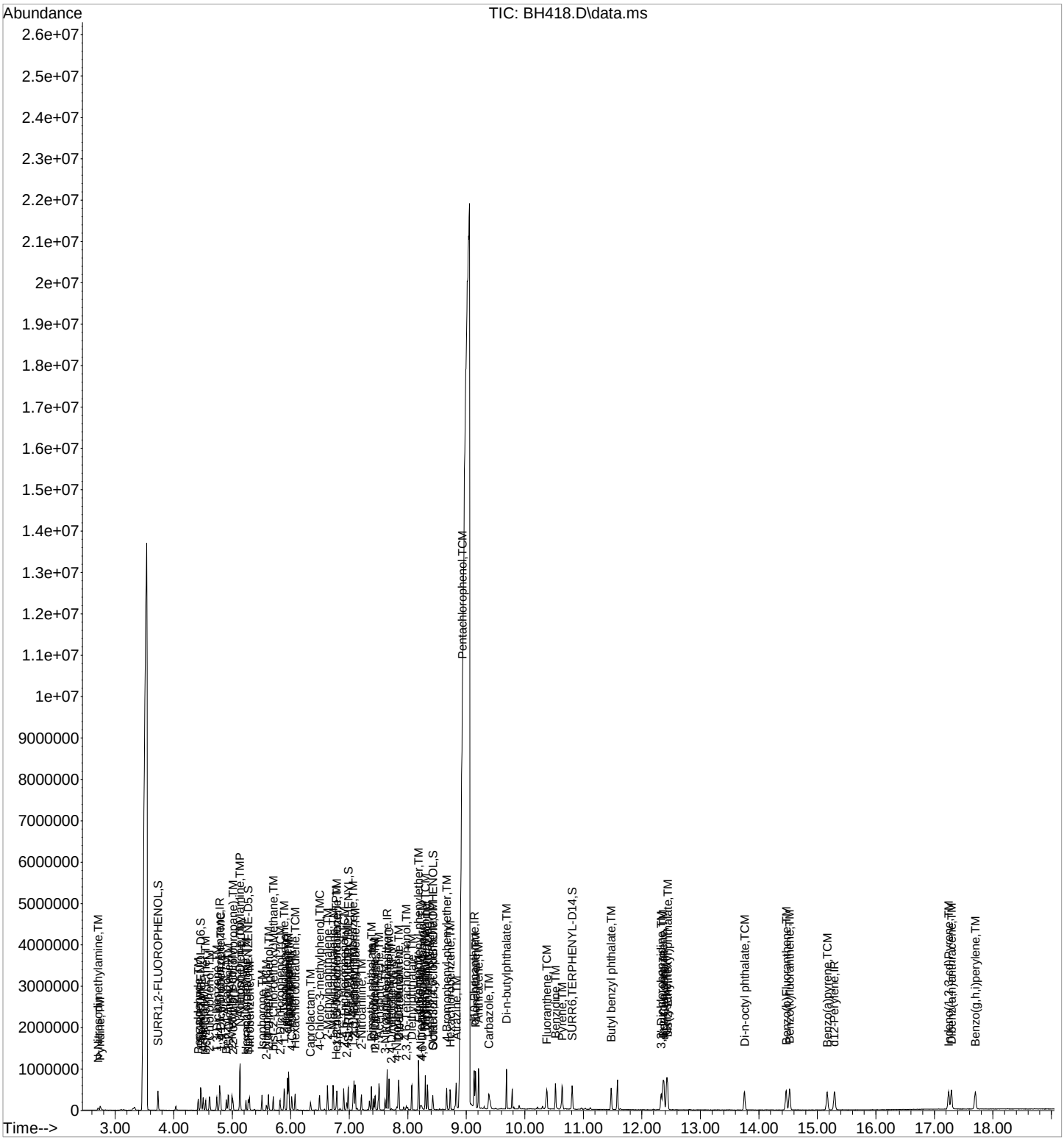
(#) = qualifier out of range (m) = manual integration (+) = signals summed

1st DM 08/10/16
2nd BA 08/10/16

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\5973D\Data\080916\
Data File : BH418.D
Acq On : 9 Aug 2016 2:56 pm
Operator : J.Misiurewicz
Sample : RQ1609061-05 Inst : 5973D
Misc : 267724 8270D SOIL R7963-016MSD IV
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Aug 10 08:52:54 2016
Quant Method : I:\ACQUDATA\5973D\Methods\8270080816.M
Quant Title : 8270 BNA ANALYSIS
QLast Update : Tue Aug 09 10:29:59 2016
Response via : Initial Calibration

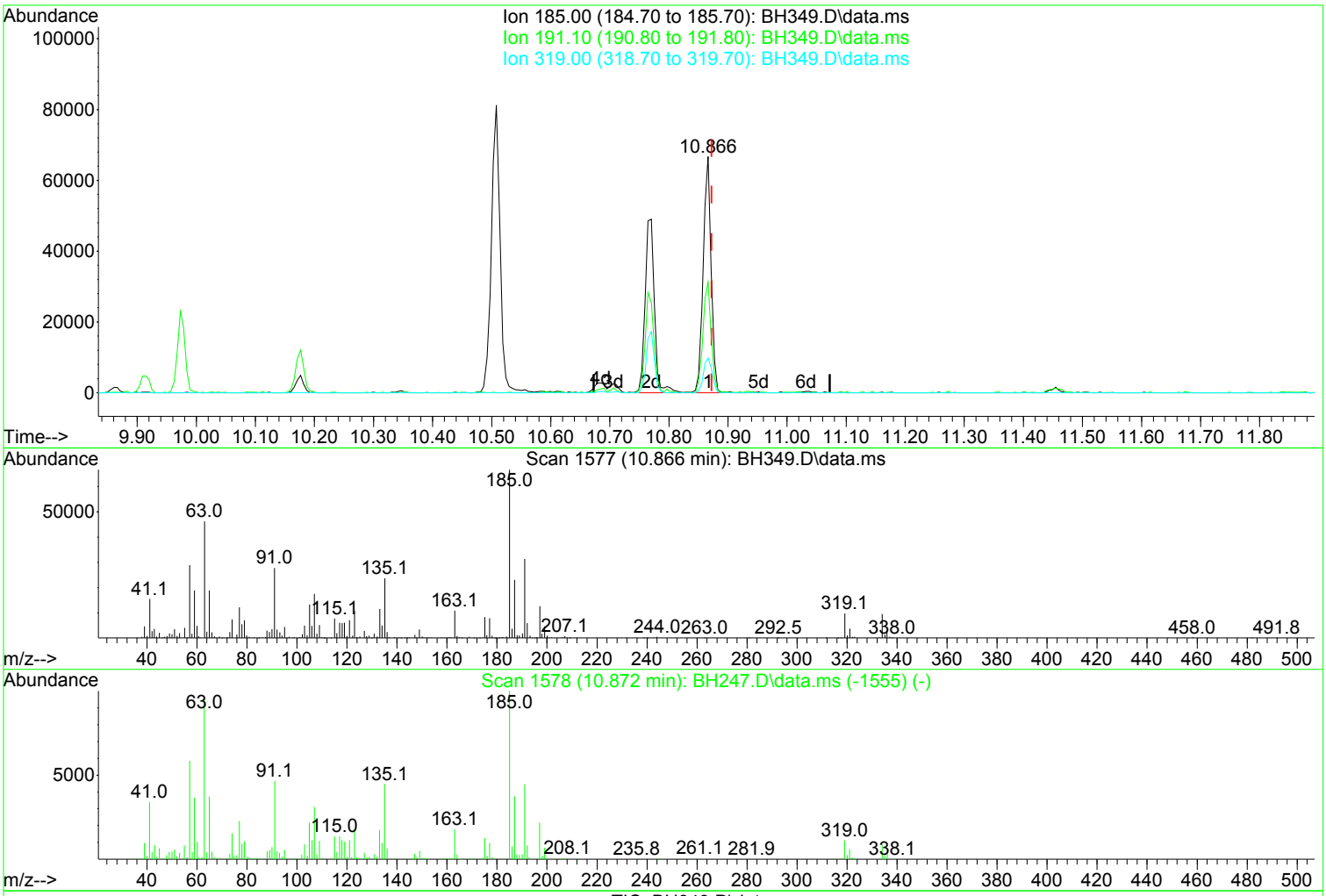


Quantitation Report (Qedit)

1st BA 08/08/16
2nd MW 08/09/16

Data Path : I:\ACQUDATA\5973D\Data\080516\
Data File : BH349.D
Acq On : 5 Aug 2016 10:59 am
Operator : B.ALLGEIER
Sample : CCV
Misc : 50NG DFTPP
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Aug 05 11:28:29 2016
Quant Method : I:\ACQUDATA\5973D\Methods\8270072816.M
Quant Title : 8270 BNA ANALYSIS
QLast Update : Fri Jul 29 08:17:04 2016
Response via : Initial Calibration



TIC: BH349.D\data.ms

(125) Aramite (TM)

10.866min (-0.007) 73.08 ppm m

response 115899

Ion	Exp%	Act%
185.00	100.00	100.00
191.10	44.70	46.92
319.00	11.30	14.71
0.00	0.00	0.00

Manual Integration:

After

Poor integration.

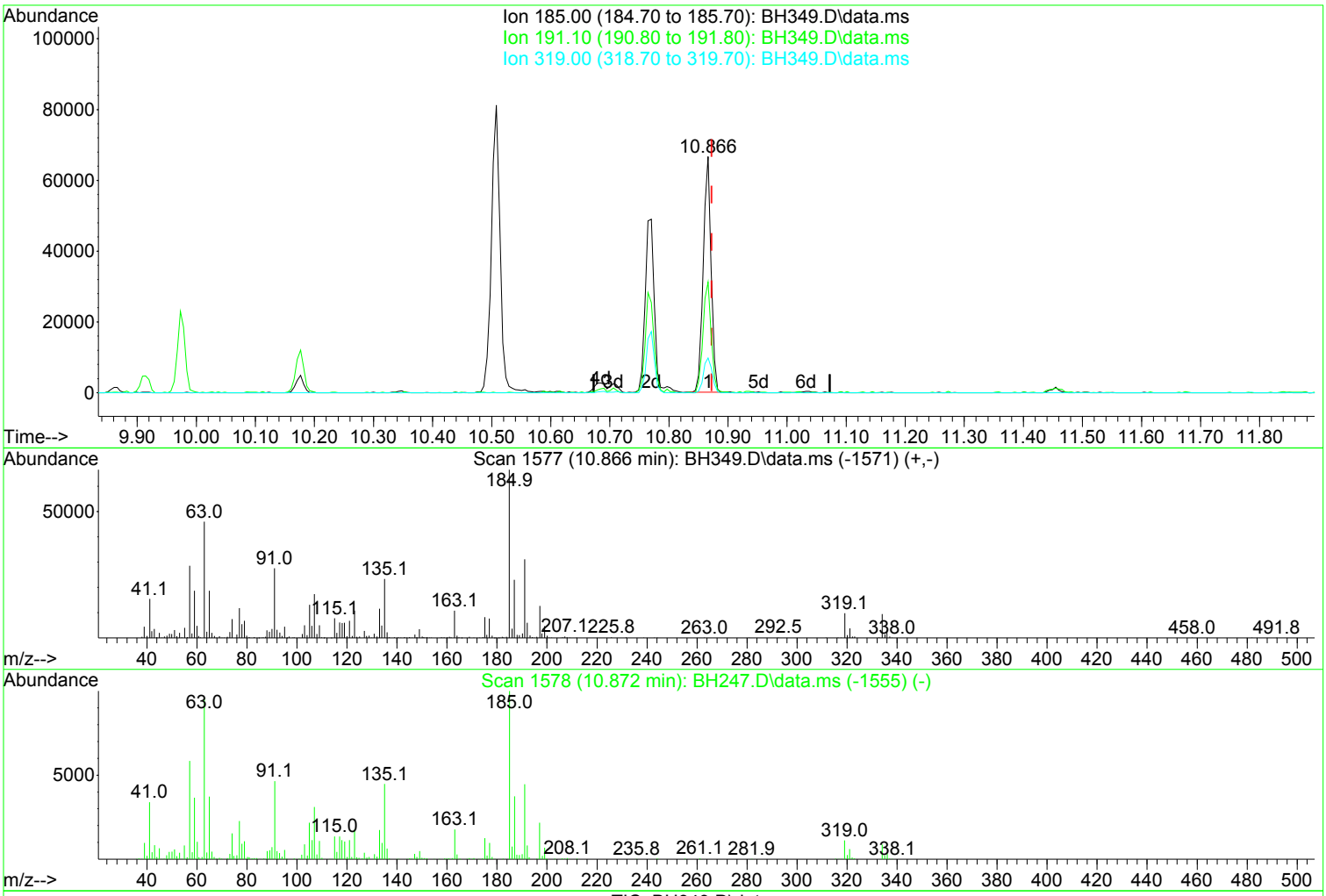
08/05/16

Quantitation Report (Qedit)

1st BA 08/08/16
2nd MW 08/09/16

Data Path : I:\ACQUDATA\5973D\Data\080516\
Data File : BH349.D
Acq On : 5 Aug 2016 10:59 am
Operator : B.ALLGEIER
Sample : CCV
Misc : 50NG DFTPP
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Aug 05 11:28:29 2016
Quant Method : I:\ACQUDATA\5973D\Methods\8270072816.M
Quant Title : 8270 BNA ANALYSIS
QLast Update : Fri Jul 29 08:17:04 2016
Response via : Initial Calibration



TIC: BH349.D\data.ms

(125) Aramite (TM)

10.866min (-0.007) 39.00 ppm

response 61846

Ion	Exp%	Act%
185.00	100.00	100.00
191.10	44.70	46.75
319.00	11.30	14.74
0.00	0.00	0.00

Manual Integration:

Before

08/05/16

Evaluate Continuing Calibration Report

1st BA 08/08/16
2nd MW 08/09/16

Data Path : I:\ACQUDATA\5973D\Data\080516\
Data File : BH349.D
Acq On : 5 Aug 2016 10:59 am
Operator : B.ALLGEIER
Sample : CCV
Misc : 50NG DFTPP
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Aug 05 11:28:29 2016
Quant Method : I:\ACQUDATA\5973D\Methods\8270072816.M
Quant Title : 8270 BNA ANALYSIS
QLast Update : Fri Jul 29 08:17:04 2016
Response via : Initial Calibration

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

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	IR	d4-1,4-Dichlorobenzene	1.000	1.000	0.0	146	0.00
2	TM	Pyridine	1.588	1.515	4.6	141	0.00
3	TM	N-Nitrosodimethylamine	0.915	0.906	1.0	146	0.00
4	TM	2-Picoline	1.581	1.544	2.3	143	0.00
5	TM	N-Nitrosomethylamine	0.786	0.679	13.6	135	0.00
6	TM	Methyl Methansulfonate	0.734	0.665	9.4	135	0.00
7	S	SURR1,2-FLUOROPHENOL	1.503	1.470	2.2	142	0.00
8	TM	N-Nitrosodiethylamine	0.624	0.613	1.8	141	0.00
9	TM	Ethyl Mathanesulfonate	1.176	1.066	9.4	132	0.00
10	TM	Benzaldehyde	0.949	0.451	52.5#	72	0.00
11	TM	Aniline	2.531	2.378	6.0	137	0.00
12	S	SURR2,PHENOL-D6	1.744	1.714	1.7	141	0.00
13	TMC	Phenol	1.764	1.697	3.8	141	0.00
14	TM	bis(2-Clethyl)Ether	1.365	1.263	7.5	137	0.00
15	TM	Pentachloroethane	0.495	0.457	7.7	138	0.00
16	TM	2-Chlorophenol	1.422	1.377	3.2	138	0.00
17	TM	1,3-Diclbenzene	1.555	1.540	1.0	145	0.00
18	TMC	1,4-Dichlorobenzene	1.613	1.535	4.8	141	0.00
19	TM	1,2-Diclbenzene	1.542	1.457	5.5	137	0.00
20	TM	Benzyl Alcohol	1.051	0.985	6.3	136	0.00
21	T	1-Methyl-2-pyrrolidinone	1.061	0.991	6.6	137	0.02
22	TM	2,2'-oxybis(1-Chloropropane	1.929	1.717	11.0	133	0.00
23	TM	2-Methylphenol	1.330	1.228	7.7	137	0.00
24	TM	3+4-Methylphenol	1.401	1.340	4.4	141	0.00
25	TM	Acetophenone	2.273	2.101	7.6	137	0.00
26	TMP	N-Nitroso-Di-n-propylamine	1.200	1.085	9.6	133	0.00
27	TM	N-Nitrosopyrrolidine	0.848	0.805	5.1	138	0.00
28	TM	N-Nitrosomorpholine	0.937	0.822	12.3	135	0.00
29	TM	o-Toluidine	2.372	2.225	6.2	138	0.00
30	TM	Hexachloroethane	0.644	0.632	1.9	143	0.00
31	TM	o,o,o-Triethylphosphorothio	0.710	0.660	7.0	138	0.00
32	TM	Alpha-terpinol	0.575	0.551	4.2	137	0.00
33	IR	d8-Naphthalene	1.000	1.000	0.0	138	0.00
34	S	SURR4,NITROBENZENE-D5	0.316	0.325	-2.8	142	0.00
35	TM	Nitrobenzene	0.313	0.310	1.0	137	0.00
36	TM	N-Nitrosopiperidine	0.217	0.199	8.3	129	0.00
37	TM	Isophorone	0.620	0.586	5.5	133	0.00
38	TCM	2-Nitrophenol	0.147	0.166	-12.9	152	0.00
39	TM	Benzoic Acid	0.132	0.146	-10.6	163	0.00
40	TM	2,4-Dimethylphenol	0.319	0.307	3.8	134	0.00
41	TM	bis(-2-Chloroethoxy)Methane	0.394	0.377	4.3	137	0.00
42	TCM	2,4-Dichlorophenol	0.253	0.253	0.0	139	0.00
43	TM	a,a-Dimethylphenethylamine	0.875	0.782	10.6	122	0.06
44	TM	1,2,4-Trichlorobenzene	0.296	0.293	1.0	142	0.00
45	TM	Naphthalene	0.990	0.944	4.6	138	0.00
46	TM	4-Chloroaniline	0.422	0.409	3.1	136	0.00
47	TM	2,6-Dichlorophenol	0.265	0.259	2.3	137	0.00
48	TCM	Hexachlorobutadiene	0.162	0.159	1.9	140	0.00
49	TM	Hexachloropropene	0.193	0.197	-2.1	144	0.00
50	TMC	4-Chloro-3-methylphenol	0.269	0.261	3.0	129	0.00
51	TM	N-N-di-n-butylamine	0.260	0.223	14.2	132	0.00

Evaluate Continuing Calibration Report

Data Path : I:\ACQUDATA\5973D\Data\080516\
Data File : BH349.D
Acq On : 5 Aug 2016 10:59 am
Operator : B.ALLGEIER
Sample : CCV
Misc : 50NG DFTPP
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Aug 05 11:28:29 2016
Quant Method : I:\ACQUDATA\5973D\Methods\8270072816.M
Quant Title : 8270 BNA ANALYSIS
QLast Update : Fri Jul 29 08:17:04 2016
Response via : Initial Calibration

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

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
52	TM	Caprolactam	0.113	0.101	10.6	128	0.01
53	TM	p-Phenylenediamine	0.036	0.018	50.0#	75	0.00
54	TM	Safrole	0.238	0.233	2.1	137	0.00
55	TM	2-Methylnaphthalene	0.630	0.613	2.7	137	0.00
56	TM	1-Methylnaphthalene	0.598	0.581	2.8	139	0.00
57	IR	d10-Acenaphthene	1.000	1.000	0.0	135	0.00
58	TPM	Hexachlorocyclopentadiene	0.200	0.213	-6.5	124	0.00
59	TM	1,2,4,5-Tetrachlorobenzene	0.498	0.514	-3.2	142	0.00
60	TM	1,2,3,4-Tetrachlorobenzene	0.529	0.548	-3.6	136	0.00
61	TCM	2,4,6-Trichlorophenol	0.313	0.337	-7.7	133	0.00
62	TM	2,4,5-Trichlorophenol	0.325	0.340	-4.6	135	0.00
63	S	SURR5,2-FLUOROBIPHENYL	1.281	1.310	-2.3	138	0.00
64	TM	Isosafrole	0.234	0.234	0.0	131	0.00
65	TM	1,1'-Biphenyl	1.489	1.525	-2.4	136	0.00
66	TM	2-Chloronaphthalene	1.130	1.139	-0.8	136	0.00
67	TM	2-Nitroaniline	0.287	0.311	-8.4	132	0.00
68	TM	1,4-Naphthoquinone	0.221	0.215	2.7	124	0.00
69	TM	m-Dinitrobenzene	0.147	0.190	-29.3#	163	0.00
70	TM	Acenaphthylene	1.731	1.738	-0.4	131	0.00
71	TM	Dimethyl phthalate	1.167	1.096	6.1	127	0.00
72	TM	2,6-Dinitrotoluene	0.230	0.244	-6.1	133	0.00
73	TMC	Acenaphthene	1.143	1.135	0.7	132	0.00
74	TM	3-Nitroaniline	0.305	0.338	-10.8	141	0.00
75	TPM	2,4-Dinitrophenol	0.069	0.108	-56.5#	205#	0.00
76	TM	Dibenzofuran	1.537	1.506	2.0	131	0.00
77	TM	2,4-Dinitrotoluene	0.278	0.330	-18.7	143	0.00
78	TMP	4-Nitrophenol	0.179	0.227	-26.8#	169	0.00
79	TM	Pentachlorobenzene	0.432	0.447	-3.5	135	0.00
80	TM	1-Napthylamine	1.138	1.038	8.8	126	0.00
81	TM	2-Napthylamine	1.206	1.106	8.3	123	0.00
82	TM	2,3,4,6-Tetrachlorophenol	0.225	0.245	-8.9	141	0.00
83	TM	Fluorene	1.263	1.195	5.4	128	0.00
84	TM	4-Chlorophenyl-phenylether	0.575	0.559	2.8	131	0.00
85	TM	Diethylphthalate	1.219	1.133	7.1	127	0.00
86	TM	4-Nitroaniline	0.329	0.352	-7.0	132	0.00
87	TM	5-Nitro-o-toluidine	0.337	0.374	-11.0	138	0.00
88	S	SURR3,2,4,6-TRIBROMOPHENOL	0.152	0.165	-8.6	138	0.00
89	TM	Sulfotepp	0.159	0.166	-4.4	132	0.00
90	TM	Octachlorocyclopentene	0.165	0.185	-12.1	140	0.00
91	IR	d10-Phenanthrene	1.000	1.000	0.0	128	0.00
92	TM	Thionazin	0.143	0.135	5.6	125	0.00
93	TM	4,6-Dinitro-2-methylphenol	0.078	0.113	-44.9#	180	0.00
94	TM	Diphenylamine	0.657	0.654	0.5	130	0.00
95	TM	1,2 Diphenylhydrazine	0.848	0.809	4.6	124	0.00
96	TCM	N-Nitrosodiphenylamine	0.657	0.654	0.5	130	0.00
97	TM	1,3,5-Trinirobenzene	0.036	0.056	-55.6#	185	0.00
98	TM	Diallate	0.322	0.299	7.1	123	0.00
99	TM	Phorate	0.158	0.159	-0.6	126	0.00
100	TM	Phenacetin	0.424	0.438	-3.3	128	0.00
101	TM	4-Bromophenyl-phenylether	0.199	0.201	-1.0	136	0.00

Evaluate Continuing Calibration Report

Data Path : I:\ACQUDATA\5973D\Data\080516\
Data File : BH349.D
Acq On : 5 Aug 2016 10:59 am
Operator : B.ALLGEIER
Sample : CCV
Misc : 50NG DFTPP
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Aug 05 11:28:29 2016
Quant Method : I:\ACQUDATA\5973D\Methods\8270072816.M
Quant Title : 8270 BNA ANALYSIS
QLast Update : Fri Jul 29 08:17:04 2016
Response via : Initial Calibration

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

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
102	TM	Hexachlorobenzene	0.226	0.227	-0.4	135	0.00
103	TM	Dimethoate	0.279	0.269	3.6	126	0.00
104	TM	Atrazine	0.093	0.097	-4.3	125	0.00
105	TCM	Pentachlorophenol	0.094	0.112	-19.1	142	0.00
106	TM	4-Aminobiphenyl	0.784	0.797	-1.7	123	0.00
107	TM	Pentachloronitrobenzene	0.078	0.087	-11.5	133	0.00
108	TM	Pronamide	0.363	0.390	-7.4	128	0.00
109	TM	Dinoseb	0.107	0.142	-32.7#	183	0.00
110	TM	Disulfoton	0.414	0.375	9.4	120	0.00
111	TM	Phenanthrene	1.058	1.056	0.2	128	0.00
112	TM	Anthracene	1.061	1.078	-1.6	126	0.00
113	TM	Carbazole	1.125	1.137	-1.1	126	0.00
114	TM	Di-n-butylphthalate	1.269	1.302	-2.6	121	0.00
115	TM	4-Nitroquinonline-1-oxide	0.052	0.056	-7.7	141	0.00
116	TCM	Fluoranthene	1.128	1.180	-4.6	127	0.00
117	IR	d12-Chrysene	1.000	1.000	0.0	130	0.00
118	TM	Methyl Parathion	0.190	0.227	-19.5	142	0.00
119	TM	Ethyl Parathion	0.141	0.178	-26.2#	144	0.00
120	TM	Methapyrilene	0.319	0.259	18.8	116	0.00
121	TM	Isodrin	0.115	0.111	3.5	116	0.00
122	TM	Benzidine	0.822	0.756	8.0	117	0.00
123	TM	Pyrene	1.263	1.289	-2.1	126	0.00
124	S	SURR6,TERPHENYL-D14	0.822	0.824	-0.2	126	0.00
125	TM	Aramite	0.163	0.148	9.2	114	0.00
126	TM	p-(Dimethylamino)azobenzene	0.379	0.377	0.5	122	0.00
127	TM	Chlorobenzilate	0.430	0.404	6.0	115	0.00
128	TM	Butyl benzyl phthalate	0.638	0.605	5.2	123	0.00
129	TM	3,3-Dimethylbenzidine	0.819	0.749	8.5	117	0.00
130	TM	2-Acetylaminofluorene	0.543	0.562	-3.5	126	0.00
131	TM	3,3'-Dichlorobenzidine	0.447	0.446	0.2	126	0.00
132	TM	Benzo(a)anthracene	1.138	1.143	-0.4	129	0.00
133	TM	Chrysene	1.088	1.077	1.0	128	0.00
134	TM	bis(2-Ethylhexyl)phthalate	0.909	0.857	5.7	118	-0.01
135	IR	d12-Perylene	1.000	1.000	0.0	130	-0.01
136	TCM	Di-n-octyl phthalate	1.571	1.538	2.1	119	-0.01
137	TM	7,12-Dimethylbenz(a)anthrac	0.578	0.611	-5.7	132	0.00
138	TM	Benzo(b)Fluoranthene	1.153	1.224	-6.2	130	0.00
139	TM	Benzo(k)fluoranthene	1.074	1.132	-5.4	133	0.00
140	TCM	Benzo(a)pyrene	0.990	1.049	-6.0	131	0.00
141	TM	3-Methylcholanthrene	0.583	0.634	-8.7	131	0.00
142	TM	Indeno(1,2,3-cd)Pyrene	0.782	0.864	-10.5	141	0.00
143	TM	Dibenz(a,h)anthracene	0.894	0.986	-10.3	139	0.00
144	TM	Benzo(g,h,i)perylene	0.784	0.856	-9.2	149	0.00

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

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\5973D\Data\080516\
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Acq On : 5 Aug 2016 10:59 am
Operator : B.ALLGEIER
Sample : CCV
Misc : 50NG DFTPP
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Aug 05 11:28:29 2016
Quant Method : I:\ACQUDATA\5973D\Methods\8270072816.M
Quant Title : 8270 BNA ANALYSIS
QLast Update : Fri Jul 29 08:17:04 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) d4-1,4-Dichlorobenzene	4.785	152	112908	40.00	ppm	0.00
33) d8-Naphthalene	5.946	136	486138	40.00	ppm	0.00
57) d10-Acenaphthene	7.646	164	262306	40.00	ppm	0.00
91) d10-Phenanthrene	9.112	188	413703	40.00	ppm	0.00
117) d12-Chrysene	12.375	240	390336	40.00	ppm	0.00
135) d12-Perylene	15.295	264	368819	40.00	ppm	-0.01
System Monitoring Compounds						
7) SURR1,2-FLUOROPHENOL	3.721	112	331932	78.25	ppm	0.00
Spiked Amount 200.000	Range 10 - 105		Recovery = 39.13%			
12) SURR2,PHENOL-D6	4.459	99	386965	78.61	ppm	0.00
Spiked Amount 200.000	Range 10 - 107		Recovery = 39.31%			
34) SURR4,NITROBENZENE-D5	5.277	82	316063	82.28	ppm	0.00
Spiked Amount 100.000	Range 31 - 110		Recovery = 82.28%			
63) SURR5,2-FLUOROBIPHENYL	6.983	172	687102	81.81	ppm	0.00
Spiked Amount 100.000	Range 31 - 118		Recovery = 81.81%			
88) SURR3,2,4,6-TRIBROMOPH...	8.427	330	86364	86.36	ppm	0.00
Spiked Amount 200.000	Range 35 - 141		Recovery = 43.18%			
124) SURR6,TERPHENYL-D14	10.797	244	643176	80.18	ppm	0.00
Spiked Amount 100.000	Range 30 - 133		Recovery = 80.18%			
Target Compounds						Qvalue
2) Pyridine	2.736	79	342184	76.35	ppm	98
3) N-Nitrosodimethylamine	2.699	74	204688	79.29	ppm	94
4) 2-Picoline	3.282	93	348708	78.12	ppm	99
5) N-Nitrosomethylamine	3.357	42	153345	69.15	ppm	95
6) Methyl Methansulfonate	3.587	80	150163	72.45	ppm	97
8) N-Nitrosodiethylamine	3.892	102	138431	78.57	ppm	96
9) Ethyl Mathanesulfonate	4.127	79	240704	72.53	ppm	98
10) Benzaldehyde	4.416	106	101801	37.99	ppm	97
11) Aniline	4.501	93	536931	75.15	ppm	99
13) Phenol	4.469	94	383233	76.95	ppm	96
14) bis(2-Clethyl)Ether	4.544	93	285296	74.03	ppm	97
15) Pentachloroethane	4.544	117	103271	73.92	ppm	99
16) 2-Chlorophenol	4.608	128	310870	77.42	ppm	97
17) 1,3-Diclbenzene	4.737	146	347706	79.20	ppm	98
18) 1,4-Dichlorobenzene	4.796	146	346654	76.14	ppm	99
19) 1,2-Diclbenzene	4.929	146	329125	75.62	ppm	98
20) Benzyl Alcohol	4.897	79	222449	75.00	ppm	97
21) 1-Methyl-2-pyrrolidinone	4.951	99	223708	74.72	ppm	98
22) 2,2'-oxybis(1-Chloropr...	5.010	45	387727	71.22	ppm	94
23) 2-Methylphenol	5.010	108	277310	73.86	ppm	95
24) 3+4-Methylphenol	5.138	108	302678	76.53	ppm	92
25) Acetophenone	5.138	105	474447	73.95	ppm	98
26) N-Nitroso-Di-n-propyla...	5.138	70	245117	72.38	ppm	95
27) N-Nitrosopyrrolidine	5.133	100	181881	76.00	ppm	71
28) N-Nitrosomorpholine	5.159	56	185612	70.20	ppm	92
29) o-Toluidine	5.170	106	502453	75.04	ppm	94
30) Hexachloroethane	5.234	117	142783	78.60	ppm	97
31) o,o,o-Triethylphosphor...	5.673	198	149050	74.42	ppm	94
32) Alpha-terpinol	5.967	121	124343	76.55	ppm	92
35) Nitrobenzene	5.298	77	301191	79.17	ppm	93
36) N-Nitrosopiperidine	5.437	42	193843	73.34	ppm	87
37) Isophorone	5.512	82	569288	75.53	ppm	96
38) 2-Nitrophenol	5.587	139	160950	90.13	ppm	99

Quantitation Report (QT Reviewed)

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Operator : B.ALLGEIER
Sample : CCV
Misc : 50NG DFTPP
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Aug 05 11:28:29 2016
Quant Method : I:\ACQUDATA\5973D\Methods\8270072816.M
Quant Title : 8270 BNA ANALYSIS
QLast Update : Fri Jul 29 08:17:04 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
39) Benzoic Acid	5.737	105	142265	88.94	ppm		89
40) 2,4-Dimethylphenol	5.619	107	298384	77.07	ppm		98
41) bis(-2-Chloroethoxy)Me...	5.705	93	366702	76.55	ppm		99
42) 2,4-Dichlorophenol	5.817	162	245629	79.75	ppm		98
43) a,a-Dimethylphenethyla...	5.940	58	759975	71.44	ppm		89
44) 1,2,4-Trichlorobenzene	5.887	180	284845	79.10	ppm		99
45) Naphthalene	5.967	128	917622	76.28	ppm		98
46) 4-Chloroaniline	6.020	127	398053	77.60	ppm		97
47) 2,6-Dichlorophenol	6.026	162	252039	78.23	ppm		97
48) Hexachlorobutadiene	6.074	225	154635	78.70	ppm		99
49) Hexachloropropene	6.042	213	191069	81.63	ppm		99
50) 4-Chloro-3-methylphenol	6.491	107	253740	77.61	ppm		99
51) N-N-di-n-butylamine	6.331	84	216582	68.58	ppm		96
52) Caprolactam	6.373	113	98177	71.25	ppm		98
53) p-Phenylenediamine	6.373	80	17842	41.10	ppm	#	67
54) Safrole	6.539	162	226287	78.13	ppm		98
55) 2-Methylnaphthalene	6.630	142	596218	77.81	ppm		97
56) 1-Methylnaphthalene	6.726	142	565270	77.82	ppm		99
58) Hexachlorocyclopentadiene	6.775	237	111830	78.07	ppm		98
59) 1,2,4,5-Tetrachloroben...	6.791	216	269642	82.57	ppm		98
60) 1,2,3,4-Tetrachloroben...	7.069	216	287590	82.98	ppm		99
61) 2,4,6-Trichlorophenol	6.908	196	176824	86.26	ppm		94
62) 2,4,5-Trichlorophenol	6.951	196	178162	83.72	ppm		98
64) Isosafrole	7.047	104	122756	80.06	ppm		94
65) 1,1'-Biphenyl	7.085	154	800086	81.94	ppm		99
66) 2-Chloronaphthalene	7.106	162	597657	80.63	ppm		98
67) 2-Nitroaniline	7.208	65	163395	86.70	ppm		94
68) 1,4-Naphthoquinone	7.283	158	112613	77.68	ppm		89
69) m-Dinitrobenzene	7.422	168	99814	92.98	ppm		88
70) Acenaphthylene	7.513	152	911619	80.32	ppm		98
71) Dimethyl phthalate	7.384	163	575068	75.14	ppm		99
72) 2,6-Dinitrotoluene	7.443	165	128147	84.90	ppm		87
73) Acenaphthene	7.679	153	595623	79.46	ppm		99
74) 3-Nitroaniline	7.614	138	177254	88.68	ppm		96
75) 2,4-Dinitrophenol	7.727	184	56505	110.32	ppm		98
76) Dibenzofuran	7.850	168	790307	78.42	ppm		100
77) 2,4-Dinitrotoluene	7.844	165	173211	87.00	ppm		95
78) 4-Nitrophenol	7.807	65	118952	101.19	ppm		78
79) Pentachlorobenzene	7.807	250	234732	82.77	ppm		98
80) 1-Napthylamine	7.935	143	544384	72.97	ppm		97
81) 2-Napthylamine	8.010	143	580315	73.40	ppm		97
82) 2,3,4,6-Tetrachlorophenol	7.978	232	128526	87.01	ppm		100
83) Fluorene	8.187	166	626801	75.66	ppm		99
84) 4-Chlorophenyl-phenyle...	8.181	204	293502	77.87	ppm		97
85) Diethylphthalate	8.074	149	594348	74.33	ppm		99
86) 4-Nitroaniline	8.224	138	184890	85.70	ppm		98
87) 5-Nitro-o-toluidine	8.208	152	196282	88.71	ppm		95
89) Sulfotepp	8.454	322	86897	83.59	ppm		89
90) Octachlorocyclopentene	8.433	307	96805	89.35	ppm		91
92) Thionazin	8.155	107	111412	75.39	ppm		97
93) 4,6-Dinitro-2-methylph...	8.245	198	93145	104.93	ppm		90
94) Diphenylamine	8.304	169	1082112	159.23	ppm		99
95) 1,2 Diphenylhydrazine	8.342	77	669116	76.33	ppm		98
96) N-Nitrosodiphenylamine	8.304	169	1082112	159.23	ppm		99
97) 1,3,5-Trinirobenzene	8.593	213	46223	107.21	ppm	#	37
98) Diallate	8.582	86	246982	74.15	ppm		90

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\5973D\Data\080516\
Data File : BH349.D
Acq On : 5 Aug 2016 10:59 am
Operator : B.ALLGEIER
Sample : CCV
Misc : 50NG DFTPP
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Aug 05 11:28:29 2016
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	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
99)	Phorate	8.593	121	131519	80.24	ppm	91
100)	Phenacetin	8.625	108	362558	82.60	ppm	97
101)	4-Bromophenyl-phenylether	8.668	248	166342	80.89	ppm	95
102)	Hexachlorobenzene	8.727	284	187471	80.32	ppm	96
103)	Dimethoate	8.775	87	222661	77.04	ppm	100
104)	Atrazine	8.834	215	79920	83.44	ppm	87
105)	Pentachlorophenol	8.930	266	92269	94.57	ppm	97
106)	4-Aminobiphenyl	8.930	169	659121	81.25	ppm	99
107)	Pentachloronitrobenzene	8.935	237	72395	89.57	ppm	92
108)	Pronamide	8.984	173	322819	86.10	ppm	98
109)	Dinoseb	9.101	211	117079	106.07	ppm	93
110)	Disulfoton	9.107	88	310432	72.53	ppm	97
111)	Phenanthrene	9.139	178	873626	79.82	ppm	100
112)	Anthracene	9.192	178	891537	81.27	ppm	99
113)	Carbazole	9.353	167	940636	80.86	ppm	100
114)	Di-n-butylphthalate	9.679	149	1077140	82.07	ppm	99
115)	4-Nitroquinonline-1-oxide	9.914	190	46364	85.77	ppm	95
116)	Fluoranthene	10.348	202	976276	83.71	ppm	97
118)	Methyl Parathion	9.481	109	176847	95.28	ppm	93
119)	Ethyl Parathion	9.861	97	138929	90.05	ppm	93
120)	Methapyrilene	9.973	58	202287	64.90	ppm	95
121)	Isodrin	10.176	193	86558	77.07	ppm	92
122)	Benzidine	10.508	184	590443	73.57	ppm	98
123)	Pyrene	10.615	202	1005990	81.64	ppm	99
125)	Aramite	10.866	185	115899m	73.08	ppm	
126)	p-(Dimethylamino)azobe...	10.979	120	294501	79.54	ppm	98
127)	Chlorobenzilate	11.037	139	315639	75.30	ppm	100
128)	Butyl benzyl phthalate	11.471	149	472058	75.84	ppm	97
129)	3,3-Dimethylbenzidine	11.455	212	584524	73.15	ppm	98
130)	2-Acetylaminofluorene	11.856	181	438802	82.84	ppm	98
131)	3,3'-Dichlorobenzidine	12.332	252	348117	79.75	ppm	97
132)	Benzo(a)anthracene	12.359	228	892664	80.40	ppm	99
133)	Chrysene	12.423	228	840522	79.18	ppm	98
134)	bis(2-Ethylhexyl)phtha...	12.439	149	669244	75.43	ppm	100
136)	Di-n-octyl phthalate	13.760	149	1134531	78.34	ppm	99
137)	7,12-Dimethylbenz(a)an...	14.477	256	450333	84.55	ppm	100
138)	Benzo(b)Fluoranthene	14.482	252	902590	84.89	ppm	98
139)	Benzo(k)fluoranthene	14.541	252	834743	84.33	ppm	97
140)	Benzo(a)pyrene	15.177	252	774037	84.76	ppm	96
141)	3-Methylcholanthrene	15.953	268	467297	86.94	ppm	98
142)	Indeno(1,2,3-cd)Pyrene	17.253	276	637111	88.30	ppm	95
143)	Dibenz(a,h)anthracene	17.301	278	727617	88.24	ppm	97
144)	Benzo(g,h,i)perylene	17.707	276	631538	87.32	ppm	95

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

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Data Path : I:\ACQUDATA\5973D\Data\080516\
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Acq On : 5 Aug 2016 10:59 am
Operator : B.ALLGEIER
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Quant Time: Aug 05 11:28:29 2016
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Quant Title : 8270 BNA ANALYSIS
QLast Update : Fri Jul 29 08:17:04 2016
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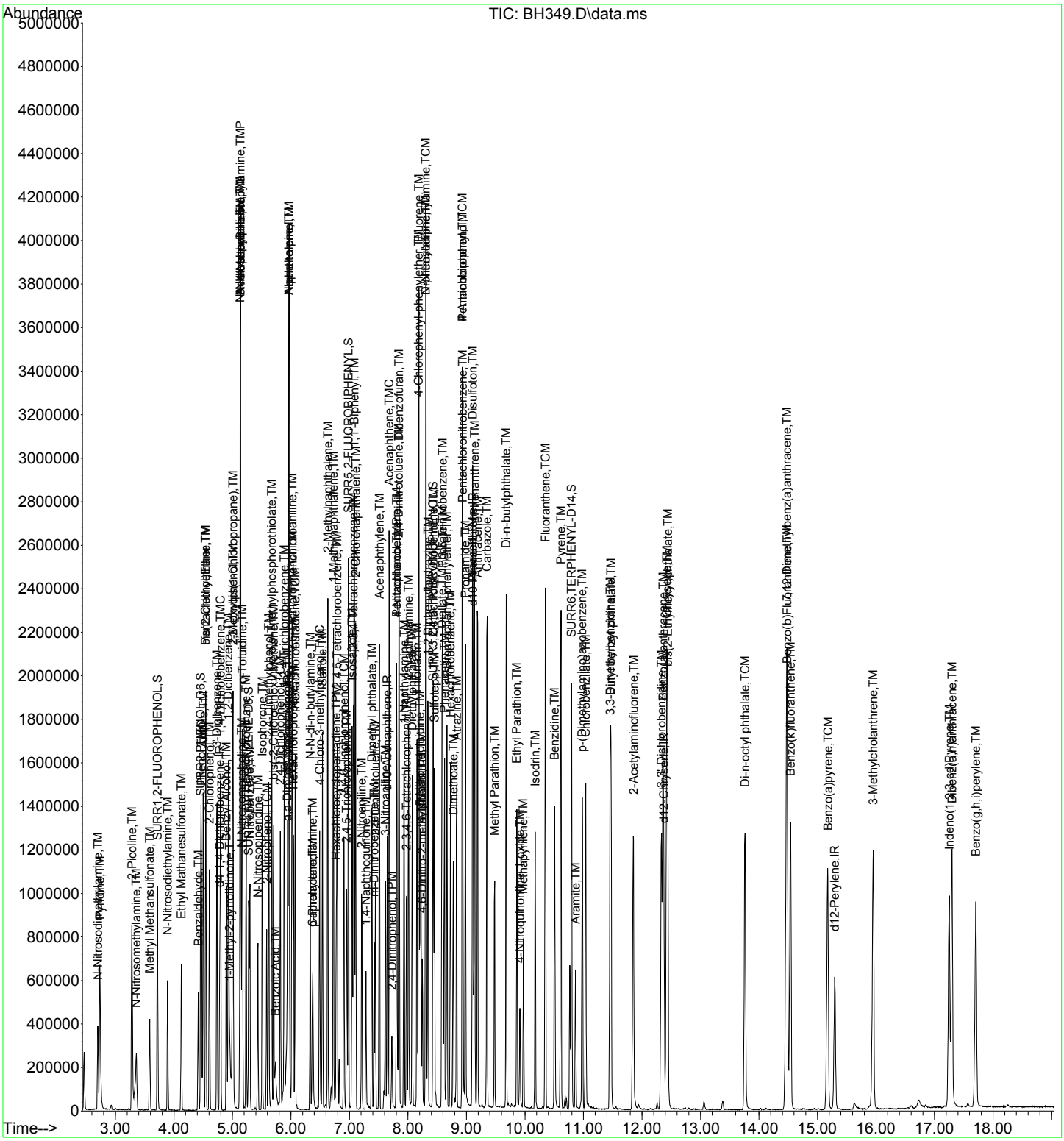
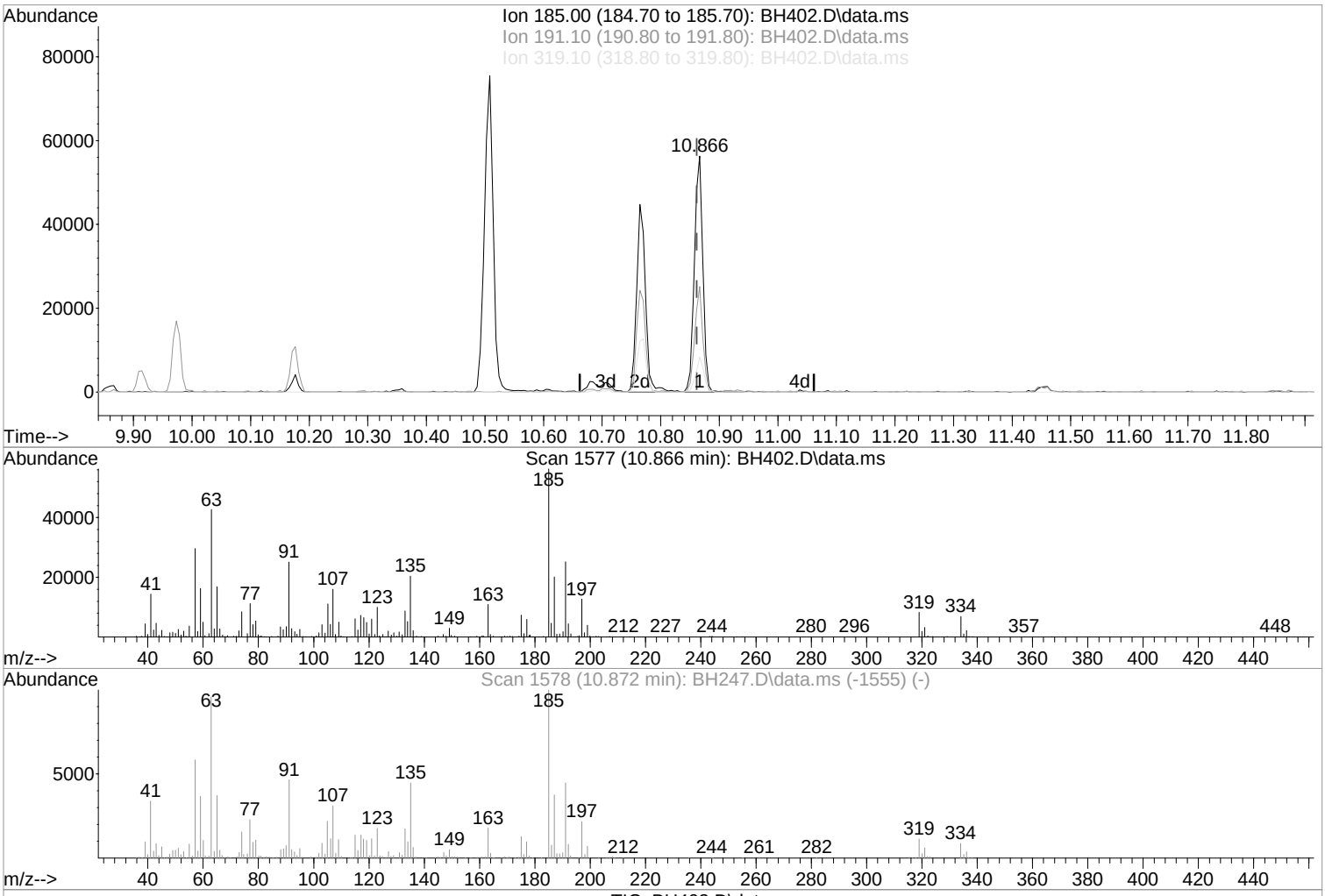


1st DM 08/10/16
2nd BA 08/10/16

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\5973D\Data\080916\
Data File : BH402.D
Acq On : 9 Aug 2016 7:30 am
Operator : J.Misiurewicz
Sample : CCV Inst : 5973D
Misc : 80 ppm STD 8270/625
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Aug 10 07:56:11 2016
Quant Method : I:\ACQUDATA\5973D\Methods\8270080816.M
Quant Title : 8270 BNA ANALYSIS
QLast Update : Tue Aug 09 10:29:59 2016
Response via : Initial Calibration



TIC: BH402.D\data.ms

(125) Aramite (TM)

10.866min (+0.004) 80.37 ppm m

response 102654

Ion	Exp%	Act%
185.00	100	100
191.10	42.00	44.69
319.10	15.40	14.72
0.00	0.00	0.00

Manual Integration:

After

Split Peak

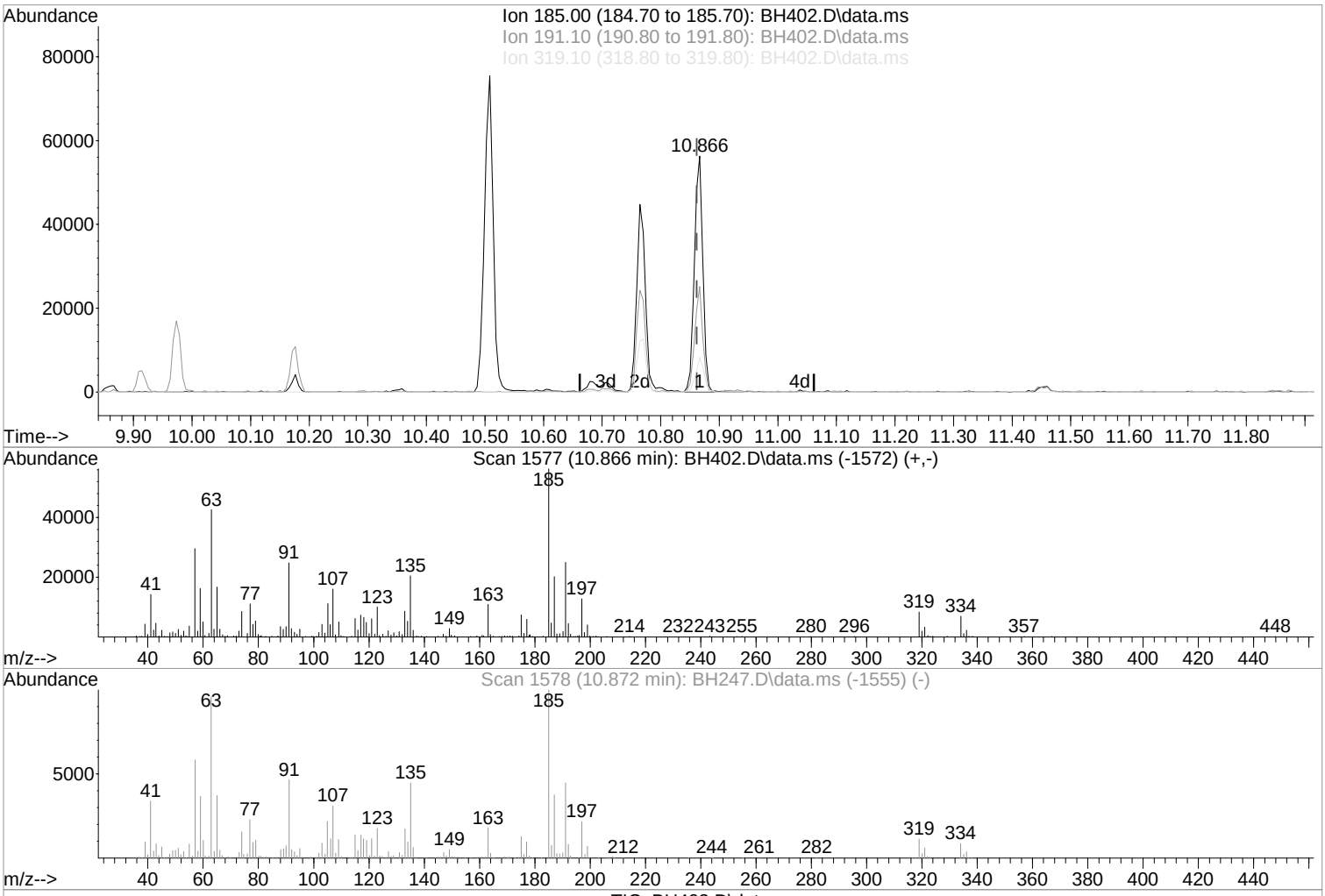
08/10/16

1st DM 08/10/16
2nd BA 08/10/16

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\5973D\Data\080916\
Data File : BH402.D
Acq On : 9 Aug 2016 7:30 am
Operator : J.Misiurewicz
Sample : CCV Inst : 5973D
Misc : 80 ppm STD 8270/625
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Aug 10 07:56:11 2016
Quant Method : I:\ACQUDATA\5973D\Methods\8270080816.M
Quant Title : 8270 BNA ANALYSIS
QLast Update : Tue Aug 09 10:29:59 2016
Response via : Initial Calibration



(125) Aramite (TM)

10.866min (+0.004) 43.83 ppm

response 55984

Ion	Exp%	Act%
185.00	100	100
191.10	42.00	44.42
319.10	15.40	14.72
0.00	0.00	0.00

Manual Integration:

Before

08/10/16

1st DM 08/10/16
2nd BA 08/10/16

Evaluate Continuing Calibration Report

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Operator : J.Misiurewicz
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Quant Title : 8270 BNA ANALYSIS
QLast Update : Tue Aug 09 10:29:59 2016
Response via : Initial Calibration

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

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	IR	d4-1,4-Dichlorobenzene	1.000	1.000	0.0	97	0.00
2	TM	Pyridine	1.597	1.560	2.3	97	0.00
3	TM	N-Nitrosodimethylamine	0.920	0.897	2.5	95	0.00
4	TM	2-Picoline	1.627	1.576	3.1	98	0.00
5	TM	N-Nitrosomethylamine	0.761	0.725	4.7	102	0.00
6	TM	Methyl Methansulfonate	0.693	0.679	2.0	97	0.00
7	S	SURR1,2-FLUOROPHENOL	1.553	1.549	0.3	97	0.00
8	TM	N-Nitrosodiethylamine	0.664	0.660	0.6	100	0.00
9	TM	Ethyl Mathanesulfonate	1.142	1.090	4.6	96	0.00
10	TM	Benzaldehyde	0.550	0.489	11.1	89	0.00
11	TM	Aniline	2.530	2.433	3.8	96	0.00
12	S	SURR2,PHENOL-D6	1.800	1.749	2.8	96	0.00
13	TMC	Phenol	1.829	1.787	2.3	98	0.00
14	TM	bis(2-Clethyl)Ether	1.422	1.369	3.7	97	0.00
15	TM	Pentachloroethane	0.531	0.502	5.5	95	0.00
16	TM	2-Chlorophenol	1.507	1.505	0.1	98	0.00
17	TM	1,3-Diclbenzene	1.675	1.621	3.2	96	0.00
18	TMC	1,4-Dichlorobenzene	1.685	1.665	1.2	99	0.00
19	TM	1,2-Diclbenzene	1.627	1.589	2.3	101	0.00
20	TM	Benzyl Alcohol	1.016	1.052	-3.5	99	0.00
21	T	1-Methyl-2-pyrrolidinone	1.025	1.026	-0.1	97	0.00
22	TM	2,2'-oxybis(1-Chloropropane	1.924	1.845	4.1	97	0.00
23	TM	2-Methylphenol	1.383	1.362	1.5	97	0.00
24	TM	3+4-Methylphenol	1.497	1.445	3.5	97	0.00
25	TM	Acetophenone	2.249	2.206	1.9	99	0.00
26	TMP	N-Nitroso-Di-n-propylamine	1.141	1.129	1.1	97	0.00
27	TM	N-Nitrosopyrrolidine	0.831	0.798	4.0	95	0.00
28	TM	N-Nitrosomorpholine	0.889	0.832	6.4	96	0.00
29	TM	o-Toluidine	2.344	2.306	1.6	98	0.00
30	TM	Hexachloroethane	0.688	0.679	1.3	98	0.00
31	TM	o,o,o-Triethylphosphorothio	0.688	0.682	0.9	97	0.00
32	TM	Alpha-terpinol	0.572	0.568	0.7	97	0.00
33	IR	d8-Naphthalene	1.000	1.000	0.0	97	0.00
34	S	SURR4,NITROBENZENE-D5	0.368	0.361	1.9	95	0.00
35	TM	Nitrobenzene	0.359	0.342	4.7	95	0.00
36	TM	N-Nitrosopiperidine	0.214	0.208	2.8	98	0.00
37	TM	Isophorone	0.649	0.646	0.5	96	0.00
38	TCM	2-Nitrophenol	0.187	0.184	1.6	93	0.00
39	TM	Benzoic Acid	0.000	0.000	0.0	91	0.00
40	TM	2,4-Dimethylphenol	0.336	0.337	-0.3	94	0.00
41	TM	bis(-2-Chloroethoxy)Methane	0.424	0.407	4.0	94	0.00
42	TCM	2,4-Dichlorophenol	0.279	0.280	-0.4	96	0.00
43	TM	a,a-Dimethylphenethylamine	0.836	0.822	1.7	94	0.05
44	TM	1,2,4-Trichlorobenzene	0.322	0.322	0.0	98	0.00
45	TM	Naphthalene	1.058	1.048	0.9	98	0.00
46	TM	4-Chloroaniline	0.443	0.456	-2.9	97	0.00
47	TM	2,6-Dichlorophenol	0.282	0.287	-1.8	95	0.00
48	TCM	Hexachlorobutadiene	0.177	0.174	1.7	96	0.00
49	TM	Hexachloropropene	0.211	0.221	-4.7	97	0.00
50	TMC	4-Chloro-3-methylphenol	0.287	0.281	2.1	92	0.00
51	TM	N-N-di-n-butylamine	0.259	0.232	10.4	96	0.00

1st DM 08/10/16
2nd BA 08/10/16

Evaluate Continuing Calibration Report

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Operator : J.Misiurewicz
Sample : CCV Inst : 5973D
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ALS Vial : 3 Sample Multiplier: 1

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Quant Title : 8270 BNA ANALYSIS
QLast Update : Tue Aug 09 10:29:59 2016
Response via : Initial Calibration

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

		Compound	AvgRF	CCRF	%D	%Dev	Area%	Dev(min)
52	TM	Caprolactam	0.106	0.102		3.8	97	0.02
53	TM	p-Phenylenediamine	0.021	0.019		9.5	83	0.00
54	TM	Safrole	0.254	0.256		-0.8	97	0.00
55	TM	2-Methylnaphthalene	0.691	0.680		1.6	96	0.00
56	TM	1-Methylnaphthalene	0.646	0.640		0.9	98	0.00
57	IR	d10-Acenaphthene	1.000	1.000		0.0	97	0.00
58	TPM	Hexachlorocyclopentadiene	0.215	0.225	4.6	~~-4.7~~	89	0.00
59	TM	1,2,4,5-Tetrachlorobenzene	0.559	0.543		2.9	96	0.00
60	TM	1,2,3,4-Tetrachlorobenzene	0.569	0.554		2.6	98	0.00
61	TCM	2,4,6-Trichlorophenol	0.347	0.350		-0.9	97	0.00
62	TM	2,4,5-Trichlorophenol	0.358	0.359		-0.3	98	0.00
63	S	SURR5,2-FLUOROBIPHENYL	1.383	1.329		3.9	96	0.00
64	TM	Isosafrole	0.238	0.235		1.3	98	0.00
65	TM	1,1'-Biphenyl	1.578	1.531		3.0	97	0.00
66	TM	2-Chloronaphthalene	1.220	1.188		2.6	96	0.00
67	TM	2-Nitroaniline	0.315	0.310		1.6	96	0.00
68	TM	1,4-Naphthoquinone	0.189	0.193		-2.1	94	0.00
69	TM	m-Dinitrobenzene	0.215	0.208		3.3	96	0.00
70	TM	Acenaphthylene	1.871	1.818		2.8	97	0.00
71	TM	Dimethyl phthalate	1.224	1.139		6.9	97	0.00
72	TM	2,6-Dinitrotoluene	0.279	0.273		2.2	96	0.00
73	TMC	Acenaphthene	1.242	1.197		3.6	97	0.00
74	TM	3-Nitroaniline	0.343	0.338		1.5	94	0.00
75	TPM	2,4-Dinitrophenol	0.104	0.105	4.8	~~-1.0~~	91	0.00
76	TM	Dibenzofuran	1.642	1.598		2.7	98	0.00
77	TM	2,4-Dinitrotoluene	0.347	0.358		-3.2	96	0.00
78	TMP	4-Nitrophenol	0.219	0.229		-4.6	96	0.00
79	TM	Pentachlorobenzene	0.484	0.465		3.9	96	0.00
80	TM	1-Napthylamine	1.125	1.046		7.0	96	0.00
81	TM	2-Napthylamine	1.192	1.115		6.5	96	0.00
82	TM	2,3,4,6-Tetrachlorophenol	0.251	0.251		0.0	92	0.00
83	TM	Fluorene	1.319	1.269		3.8	99	0.00
84	TM	4-Chlorophenyl-phenylether	0.619	0.589		4.8	98	0.00
85	TM	Diethylphthalate	1.248	1.195		4.2	99	0.00
86	TM	4-Nitroaniline	0.355	0.348		2.0	94	0.00
87	TM	5-Nitro-o-toluidine	0.383	0.381		0.5	98	0.00
88	S	SURR3,2,4,6-TRIBROMOPHENOL	0.171	0.168		1.8	97	0.00
89	TM	Sulfotepp	0.173	0.171		1.2	97	0.00
90	TM	Octachlorocyclopentene	0.178	0.183		-2.8	95	0.00
91	IR	d10-Phenanthrene	1.000	1.000		0.0	98	0.00
92	TM	Thionazin	0.139	0.137		1.4	99	0.00
93	TM	4,6-Dinitro-2-methylphenol	0.120	0.121		-0.8	96	0.00
94	TM	Diphenylamine	0.677	0.647		4.4	97	0.00
95	TM	1,2 Diphenylhydrazine	0.848	0.810		4.5	98	0.00
96	TCM	N-Nitrosodiphenylamine	0.677	0.647		4.4	97	0.00
97	TM	1,3,5-Trinirobenzene	0.067	0.068		-1.5	96	0.00
98	TM	Diallate	0.305	0.291		4.6	97	0.00
99	TM	Phorate	0.166	0.159		4.2	100	0.00
100	TM	Phenacetin	0.417	0.436		-4.6	99	0.00
101	TM	4-Bromophenyl-phenylether	0.218	0.204		6.4	99	0.00

1st DM 08/10/16
2nd BA 08/10/16

Evaluate Continuing Calibration Report

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

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
102	TM	Hexachlorobenzene	0.251	0.234	6.8	100	0.00
103	TM	Dimethoate	0.277	0.268	3.2	92	0.00
104	TM	Atrazine	0.103	0.107	-3.9	101	0.00
105	TCM	Pentachlorophenol	0.106	0.110	-3.8	96	0.00
106	TM	4-Aminobiphenyl	0.778	0.785	-0.9	97	0.00
107	TM	Pentachloronitrobenzene	0.092	0.093	-1.1	97	0.00
108	TM	Pronamide	0.367	0.382	-4.1	96	0.00
109	TM	Dinoseb	0.167	0.156	6.6	94	0.00
110	TM	Disulfoton	0.382	0.368	3.7	96	0.00
111	TM	Phenanthrene	1.142	1.093	4.3	96	0.00
112	TM	Anthracene	1.149	1.116	2.9	98	0.00
113	TM	Carbazole	1.141	1.143	-0.2	98	0.00
114	TM	Di-n-butylphthalate	1.326	1.385	-4.4	98	0.00
115	TM	4-Nitroquinonline-1-oxide	0.064	0.060	6.3	92	0.00
116	TCM	Fluoranthene	1.210	1.215	-0.4	95	0.00
117	IR	d12-Chrysene	1.000	1.000	0.0	97	0.00
118	TM	Methyl Parathion	0.242	0.245	-1.2	92	0.00
119	TM	Ethyl Parathion	0.178	0.187	-5.1	95	0.00
120	TM	Methapyrilene	0.209	0.234	-12.0	99	0.00
121	TM	Isodrin	0.126	0.128	-1.6	99	0.00
122	TM	Benzidine	0.862	0.854	0.9	96	0.00
123	TM	Pyrene	1.389	1.433	-3.2	99	0.00
124	S	SURR6,TERPHENYL-D14	0.892	0.895	-0.3	97	0.00
125	TM	Aramite	0.158	0.159	-0.6	97	0.00
126	TM	p-(Dimethylamino)azobenzene	0.368	0.387	-5.2	98	0.00
127	TM	Chlorobenzilate	0.432	0.419	3.0	96	0.00
128	TM	Butyl benzyl phthalate	0.673	0.661	1.8	98	0.00
129	TM	3,3-Dimethylbenzidine	0.872	0.862	1.1	95	0.00
130	TM	2-Acetylaminofluorene	0.554	0.567	-2.3	95	0.00
131	TM	3,3'-Dichlorobenzidine	0.481	0.492	-2.3	97	0.00
132	TM	Benzo(a)anthracene	1.258	1.212	3.7	97	0.00
133	TM	Chrysene	1.193	1.192	0.1	98	0.00
134	TM	bis(2-Ethylhexyl)phthalate	0.950	0.931	2.0	97	0.00
135	IR	d12-Perylene	1.000	1.000	0.0	97	0.00
136	TCM	Di-n-octyl phthalate	1.538	1.572	-2.2	96	0.00
137	TM	7,12-Dimethylbenz(a)anthrac	0.596	0.600	-0.7	96	0.01
138	TM	Benzo(b)Fluoranthene	1.244	1.248	-0.3	97	0.00
139	TM	Benzo(k)fluoranthene	1.153	1.180	-2.3	99	0.00
140	TCM	Benzo(a)pyrene	1.073	1.072	0.1	95	0.00
141	TM	3-Methylcholanthrene	0.600	0.627	-4.5	98	0.01
142	TM	Indeno(1,2,3-cd)Pyrene	0.910	0.825	9.3	94	0.00
143	TM	Dibenz(a,h)anthracene	1.034	0.981	5.1	96	0.00
144	TM	Benzo(g,h,i)perylene	0.929	0.795	14.4	92	0.00

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

1st DM 08/10/16
2nd BA 08/10/16

Quantitation Report (QT Reviewed)

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) d4-1,4-Dichlorobenzene	4.785	152	95144	40.00	ppm	0.00
33) d8-Naphthalene	5.946	136	399892	40.00	ppm	0.00
57) d10-Acenaphthene	7.646	164	227249	40.00	ppm	0.00
91) d10-Phenanthrene	9.112	188	356235	40.00	ppm	0.00
117) d12-Chrysene	12.375	240	323222	40.00	ppm	0.00
135) d12-Perylene	15.295	264	320338	40.00	ppm	0.00
System Monitoring Compounds						
7) SURR1,2-FLUOROPHENOL	3.721	112	294682	79.79	ppm	0.00
Spiked Amount 200.000	Range 10 - 105		Recovery = 39.90%			
12) SURR2,PHENOL-D6	4.464	99	332807	77.74	ppm	0.00
Spiked Amount 200.000	Range 10 - 107		Recovery = 38.87%			
34) SURR4,NITROBENZENE-D5	5.277	82	289107	78.64	ppm	0.00
Spiked Amount 100.000	Range 31 - 110		Recovery = 78.64%			
63) SURR5,2-FLUOROBIPHENYL	6.983	172	603817	76.83	ppm	0.00
Spiked Amount 100.000	Range 31 - 118		Recovery = 76.83%			
88) SURR3,2,4,6-TRIBROMOPH...	8.427	330	76270	78.51	ppm	0.00
Spiked Amount 200.000	Range 35 - 141		Recovery = 39.26%			
124) SURR6,TERPHENYL-D14	10.797	244	578766	80.26	ppm	0.00
Spiked Amount 100.000	Range 30 - 133		Recovery = 80.26%			
Target Compounds						Qvalue
2) Pyridine	2.731	79	296934	78.18	ppm	99
3) N-Nitrosodimethylamine	2.699	74	170659	77.97	ppm	96
4) 2-Picoline	3.282	93	299988	77.51	ppm	98
5) N-Nitrosomethylamine	3.357	42	137915	76.20	ppm	98
6) Methyl Methansulfonate	3.587	80	129157	78.35	ppm	96
8) N-Nitrosodiethylamine	3.892	102	125648	79.55	ppm	94
9) Ethyl Mathanesulfonate	4.127	79	207352	76.33	ppm	100
10) Benzaldehyde	4.416	106	93007	71.06	ppm	99
11) Aniline	4.502	93	462962	76.92	ppm	91
13) Phenol	4.475	94	340130	78.18	ppm	98
14) bis(2-Clethyl)Ether	4.544	93	260569	77.02	ppm	98
15) Pentachloroethane	4.544	117	95505	75.65	ppm	96
16) 2-Chlorophenol	4.608	128	286459	79.94	ppm	99
17) 1,3-Diclbenzene	4.737	146	308428	77.41	ppm	98
18) 1,4-Dichlorobenzene	4.801	146	316807	79.04	ppm	98
19) 1,2-Diclbenzene	4.935	146	302313	78.13	ppm	98
20) Benzyl Alcohol	4.897	79	200206	82.80	ppm	95
21) 1-Methyl-2-pyrrolidinone	4.929	99	195207	80.09	ppm	98
22) 2,2'-oxybis(1-Chloropr...	5.010	45	351054	76.73	ppm	97
23) 2-Methylphenol	5.010	108	259154	78.80	ppm	100
24) 3+4-Methylphenol	5.138	108	274944	77.20	ppm	95
25) Acetophenone	5.138	105	419731	78.45	ppm	99
26) N-Nitroso-Di-n-propyla...	5.133	70	214765	79.11	ppm	99
27) N-Nitrosopyrrolidine	5.127	100	151795	76.82	ppm	92
28) N-Nitrosomorpholine	5.159	56	158411	74.87	ppm	99
29) o-Toluidine	5.170	106	438866	78.73	ppm	98
30) Hexachloroethane	5.234	117	129170	78.88	ppm	96
31) o,o,o-Triethylphosphor...	5.673	198	129793	79.32	ppm	95
32) Alpha-terpinol	5.967	121	107999	79.37	ppm	97
35) Nitrobenzene	5.293	77	273290	76.23	ppm	99
36) N-Nitrosopiperidine	5.432	42	166661	77.91	ppm	96
37) Isophorone	5.512	82	516547	79.57	ppm	98
38) 2-Nitrophenol	5.587	139	147290	78.67	ppm	98

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
40) 2,4-Dimethylphenol	5.625	107	269133	80.22	ppm	96
41) bis(-2-Chloroethoxy)Me...	5.705	93	325447	76.83	ppm	99
42) 2,4-Dichlorophenol	5.817	162	224271	80.31	ppm	94
43) a,a-Dimethylphenethyla...	5.924	58	657762	78.66	ppm	99
44) 1,2,4-Trichlorobenzene	5.887	180	257816	79.99	ppm	98
45) Naphthalene	5.967	128	838350	79.30	ppm	100
46) 4-Chloroaniline	6.021	127	364841	82.32	ppm	98
47) 2,6-Dichlorophenol	6.026	162	229511	81.53	ppm	98
48) Hexachlorobutadiene	6.074	225	138990	78.53	ppm	94
49) Hexachloropropene	6.042	213	176964	83.97	ppm	94
50) 4-Chloro-3-methylphenol	6.491	107	224655	78.36	ppm	92
51) N-N-di-n-butylamine	6.331	84	185311	71.54	ppm	96
52) Caprolactam	6.368	113	81457	77.16	ppm	95
53) p-Phenylenediamine	6.368	80	14823	71.76	ppm	98
54) Safrole	6.539	162	204360	80.44	ppm	98
55) 2-Methylnaphthalene	6.630	142	544233	78.78	ppm	99
56) 1-Methylnaphthalene	6.727	142	512203	79.31	ppm	98
58) Hexachlorocyclopentadiene	6.775	237	102393	76.33	ppm	98
59) 1,2,4,5-Tetrachloroben...	6.791	216	246599	77.65	ppm	98
60) 1,2,3,4-Tetrachloroben...	7.069	216	251848	77.98	ppm	99
61) 2,4,6-Trichlorophenol	6.908	196	158897	80.71	ppm	96
62) 2,4,5-Trichlorophenol	6.957	196	163050	80.13	ppm	98
64) Isosafrole	7.047	104	106968	79.07	ppm	93
65) 1,1'-Biphenyl	7.085	154	696037	77.65	ppm	96
66) 2-Chloronaphthalene	7.106	162	539734	77.89	ppm	98
67) 2-Nitroaniline	7.208	65	140997	78.71	ppm	99
68) 1,4-Naphthoquinone	7.283	158	87757	81.93	ppm	96
69) m-Dinitrobenzene	7.422	168	94539	77.36	ppm	93
70) Acenaphthylene	7.513	152	826291	77.73	ppm	99
71) Dimethyl phthalate	7.384	163	517491	74.39	ppm	99
72) 2,6-Dinitrotoluene	7.443	165	124108	78.27	ppm	96
73) Acenaphthene	7.679	153	544091	77.13	ppm	98
74) 3-Nitroaniline	7.614	138	153822	78.89	ppm	98
75) 2,4-Dinitrophenol	7.727	184	47549	76.15	ppm	98
76) Dibenzofuran	7.850	168	726198	77.85	ppm	98
77) 2,4-Dinitrotoluene	7.844	165	162767	82.45	ppm	96
78) 4-Nitrophenol	7.812	65	103944	83.64	ppm	96
79) Pentachlorobenzene	7.807	250	211395	76.83	ppm	100
80) 1-Napthylamine	7.935	143	475205	74.37	ppm	100
81) 2-Napthylamine	8.010	143	506662	74.81	ppm	97
82) 2,3,4,6-Tetrachlorophenol	7.978	232	113945	80.02	ppm	88
83) Fluorene	8.187	166	576781	76.97	ppm	98
84) 4-Chlorophenyl-phenyle...	8.181	204	267489	76.08	ppm	97
85) Diethylphthalate	8.074	149	543033	76.60	ppm	99
86) 4-Nitroaniline	8.224	138	158229	78.46	ppm	99
87) 5-Nitro-o-toluidine	8.208	152	173195	79.68	ppm	98
89) Sulfotepp	8.454	322	77653	78.87	ppm	86
90) Octachlorocyclopentene	8.433	307	82967	82.12	ppm	98
92) Thionazin	8.155	107	97480	78.91	ppm	98
93) 4,6-Dinitro-2-methylph...	8.246	198	85907	80.62	ppm	96
94) Diphenylamine	8.304	169	921375	152.77	ppm	98
95) 1,2 Diphenylhydrazine	8.342	77	577111	76.38	ppm	99
96) N-Nitrosodiphenylamine	8.304	169	921375	152.76	ppm	98
97) 1,3,5-Trinirobenzene	8.593	213	48131	80.70	ppm	95
98) Diallate	8.582	86	207547	76.51	ppm	88
99) Phorate	8.593	121	113576	77.03	ppm	91

1st DM 08/10/16
2nd BA 08/10/16

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\5973D\Data\080916\
Data File : BH402.D
Acq On : 9 Aug 2016 7:30 am
Operator : J.Misiurewicz
Sample : CCV Inst : 5973D
Misc : 80 ppm STD 8270/625
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Aug 10 07:57:38 2016
Quant Method : I:\ACQUDATA\5973D\Methods\8270080816.M
Quant Title : 8270 BNA ANALYSIS
QLast Update : Tue Aug 09 10:29:59 2016
Response via : Initial Calibration

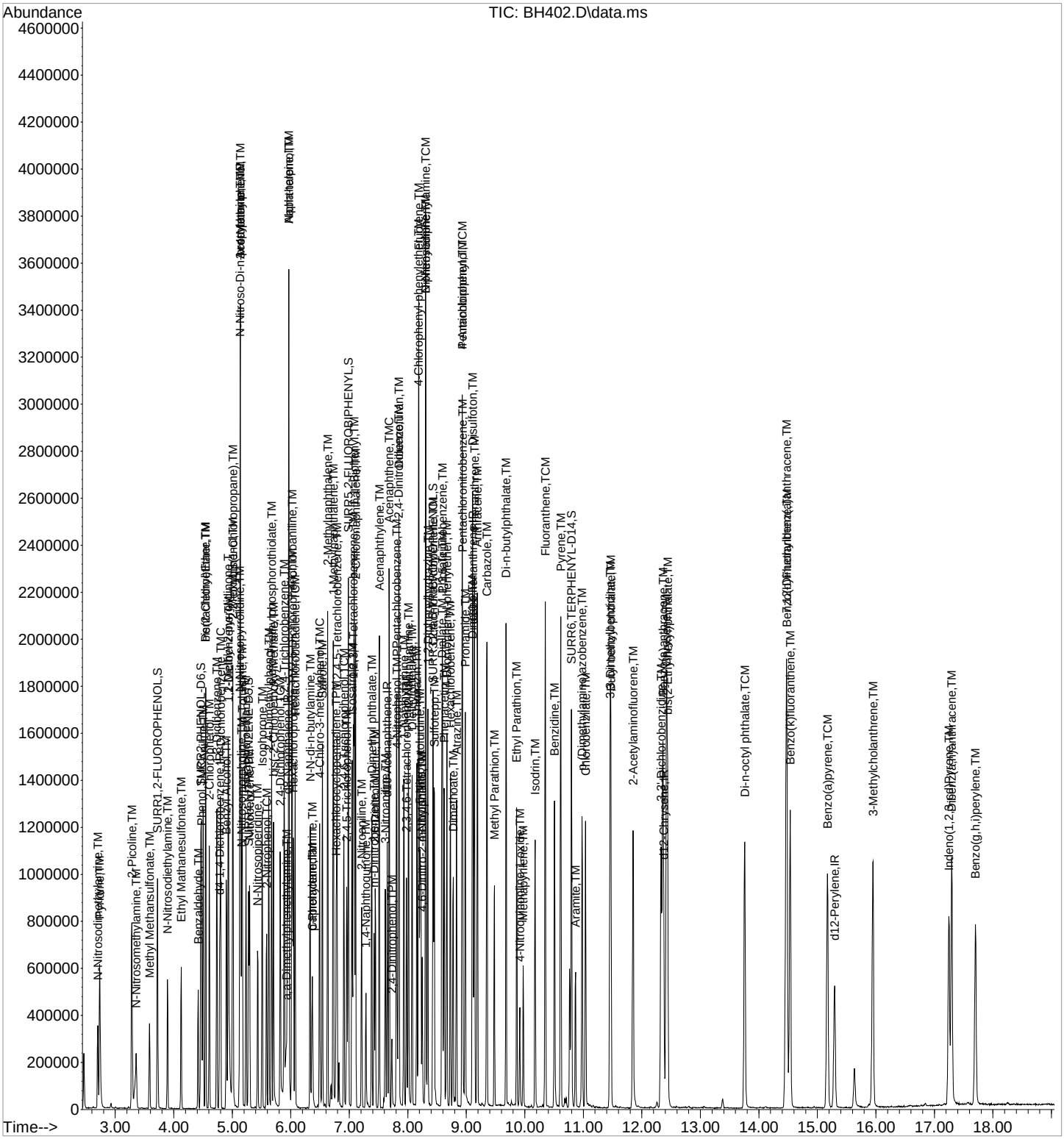
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
100) Phenacetin	8.620	108	310819	83.78 ppm	98
101) 4-Bromophenyl-phenylether	8.668	248	145003	74.60 ppm	95
102) Hexachlorobenzene	8.727	284	166855	74.68 ppm	98
103) Dimethoate	8.775	87	190979	77.52 ppm	95
104) Atrazine	8.834	215	76187	82.82 ppm	90
105) Pentachlorophenol	8.930	266	78566	83.14 ppm	92
106) 4-Aminobiphenyl	8.930	169	558940	80.63 ppm	100
107) Pentachloronitrobenzene	8.936	237	66161	80.80 ppm	89
108) Pronamide	8.984	173	272052	83.21 ppm	98
109) Dinoseb	9.101	211	111155	74.85 ppm	95
110) Disulfoton	9.107	88	262341	77.06 ppm	96
111) Phenanthrene	9.139	178	778830	76.55 ppm	99
112) Anthracene	9.187	178	794866	77.69 ppm	99
113) Carbazole	9.353	167	814363	80.14 ppm	99
114) Di-n-butylphthalate	9.679	149	987009	83.55 ppm	100
115) 4-Nitroquinonline-1-oxide	9.914	190	42668	74.80 ppm	95
116) Fluoranthene	10.348	202	865964	80.38 ppm	99
118) Methyl Parathion	9.481	109	158672	81.21 ppm	92
119) Ethyl Parathion	9.861	97	121096	84.11 ppm	95
120) Methapyrilene	9.973	58	151065	89.43 ppm	99
121) Isodrin	10.176	193	82609	80.82 ppm	91
122) Benzidine	10.508	184	552148	79.27 ppm	99
123) Pyrene	10.615	202	926578	82.55 ppm	99
125) Aramite	10.866	185	102654m	80.37 ppm	
126) p-(Dimethylamino)azobe...	10.979	120	250038	84.07 ppm	98
127) Chlorobenzilate	11.038	139	271052	77.57 ppm	97
128) Butyl benzyl phthalate	11.471	149	427400	78.60 ppm	97
129) 3,3-Dimethylbenzidine	11.455	212	557518	79.08 ppm	98
130) 2-Acetylaminofluorene	11.851	181	366691	81.85 ppm	99
131) 3,3'-Dichlorobenzidine	12.327	252	318131	81.82 ppm	97
132) Benzo(a)anthracene	12.359	228	783707	77.12 ppm	99
133) Chrysene	12.417	228	770512	79.93 ppm	98
134) bis(2-Ethylhexyl)phtha...	12.439	149	601675	78.37 ppm	97
136) Di-n-octyl phthalate	13.760	149	1007356	81.77 ppm	99
137) 7,12-Dimethylbenz(a)an...	14.471	256	384636	80.58 ppm	96
138) Benzo(b)Fluoranthene	14.477	252	799838	80.26 ppm	99
139) Benzo(k)fluoranthene	14.536	252	756151	81.91 ppm	99
140) Benzo(a)pyrene	15.172	252	687053	79.99 ppm	97
141) 3-Methylcholanthrene	15.953	268	401501	83.57 ppm	99
142) Indeno(1,2,3-cd)Pyrene	17.247	276	528758	72.55 ppm	99
143) Dibenz(a,h)anthracene	17.295	278	628239	75.83 ppm	98
144) Benzo(g,h,i)perylene	17.702	276	509142	68.40 ppm	97

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

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\5973D\Data\080916\
Data File : BH402.D
Acq On : 9 Aug 2016 7:30 am
Operator : J.Misiurewicz
Sample : CCV Inst : 5973D
Misc : 80 ppm STD 8270/625
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Aug 10 07:57:38 2016
Quant Method : I:\ACQUDATA\5973D\Methods\8270080816.M
Quant Title : 8270 BNA ANALYSIS
QLast Update : Tue Aug 09 10:29:59 2016
Response via : Initial Calibration



Evaluate Continuing Calibration Report

1st BA 08/08/16
2nd MW 08/09/16

Data Path : I:\ACQUDATA\5973D\Data\080516\
Data File : BH350.D
Acq On : 5 Aug 2016 11:39 am
Operator : B.ALLGEIER
Sample : CCV
Misc : BEN 80PPB
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 05 11:56:55 2016
Quant Method : I:\ACQUDATA\5973D\Methods\8270072816.M
Quant Title : 8270 BNA ANALYSIS
QLast Update : Fri Jul 29 08:17:04 2016
Response via : Initial Calibration

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

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	IR	d4-1,4-Dichlorobenzene	1.000	1.000	0.0	120	0.00
2	TM	Pyridine	1.588	0.000	100.0#	0#	-2.74#
3	TM	N-Nitrosodimethylamine	0.915	0.000	100.0#	0#	-2.70#
4	TM	2-Picoline	1.581	0.000	100.0#	0#	-3.29#
5	TM	N-Nitrosomethylamine	0.786	0.001	99.9#	0#	-0.02
6	TM	Methyl Methansulfonate	0.734	0.000	100.0#	0#	-3.59#
7	S	SURR1,2-FLUOROPHENOL	1.503	0.000	100.0#	0#	-3.72#
8	TM	N-Nitrosodiethylamine	0.624	0.000	100.0#	0#	-3.89#
9	TM	Ethyl Mathanesulfonate	1.176	0.001	99.9#	0#	0.05
10	TM	Benzaldehyde	0.949	1.059	-11.6	138	0.00
11	TM	Aniline	2.531	0.001	100.0#	0#	-0.16
12	S	SURR2,PHENOL-D6	1.744	0.000	100.0#	0#	-4.46#
13	TMC	Phenol	1.764	0.001	99.9#	0#	0.00
14	TM	bis(2-Clethyl)Ether	1.365	0.000	100.0#	0#	-4.55#
15	TM	Pentachloroethane	0.495	0.000	100.0#	0#	-4.55#
16	TM	2-Chlorophenol	1.422	0.000	100.0#	0#	-4.61#
17	TM	1,3-Diclbenzene	1.555	0.000	100.0#	0#	-4.74#
18	TMC	1,4-Dichlorobenzene	1.613	0.000	100.0#	0#	-4.80#
19	TM	1,2-Diclbenzene	1.542	0.000	100.0#	0#	-4.94#
20	TM	Benzyl Alcohol	1.051	0.001	99.9#	0#	0.02
21	T	1-Methyl-2-pyrrolidinone	1.061	0.008	99.2#	1#	-0.15
22	TM	2,2'-oxybis(1-Chloropropane	1.929	0.000	100.0#	0#	-5.01#
23	TM	2-Methylphenol	1.330	0.000	100.0#	0#	-5.00#
24	TM	3+4-Methylphenol	1.401	0.000	100.0#	0#	-5.14#
25	TM	Acetophenone	2.273	0.000	100.0#	0#	-5.14#
26	TMP	N-Nitroso-Di-n-propylamine	1.200	0.000#	100.0#	0#	-5.13#
27	TM	N-Nitrosopyrrolidine	0.848	0.000	100.0#	0#	-5.13#
28	TM	N-Nitrosomorpholine	0.937	0.001	99.9#	0#	0.11
29	TM	o-Toluidine	2.372	0.000	100.0#	0#	-5.17#
30	TM	Hexachloroethane	0.644	0.000	100.0#	0#	-5.24#
31	TM	o,o,o-Triethylphosphorothio	0.710	0.000	100.0#	0#	-5.68#
32	TM	Alpha-terpinol	0.575	0.001	99.8#	0#	-0.13
33	IR	d8-Naphthalene	1.000	1.000	0.0	107	0.00
34	S	SURR4,NITROBENZENE-D5	0.316	0.000	100.0#	0#	-5.28#
35	TM	Nitrobenzene	0.313	0.000	100.0#	0#	-0.10
36	TM	N-Nitrosopiperidine	0.217	0.000	100.0#	0#	-5.44#
37	TM	Isophorone	0.620	0.000	100.0#	0#	-5.51#
38	TCM	2-Nitrophenol	0.147	0.000	100.0#	0#	-5.59#
39	TM	Benzoic Acid	0.132	0.205	-55.3#	177	0.00
40	TM	2,4-Dimethylphenol	0.319	0.000	100.0#	0#	0.09
41	TM	bis(-2-Chloroethoxy)Methane	0.394	0.001	99.7#	0#	0.00
42	TCM	2,4-Dichlorophenol	0.253	0.000	100.0#	0#	-5.82#
43	TM	a,a-Dimethylphenethylamine	0.875	0.001	99.9#	0#	-0.01
44	TM	1,2,4-Trichlorobenzene	0.296	0.000	100.0#	0#	-5.89#
45	TM	Naphthalene	0.990	0.000	100.0#	0#	-0.17
46	TM	4-Chloroaniline	0.422	0.000	100.0#	0#	-6.02#
47	TM	2,6-Dichlorophenol	0.265	0.000	100.0#	0#	0.00
48	TCM	Hexachlorobutadiene	0.162	0.000	100.0#	0#	-6.08#
49	TM	Hexachloropropene	0.193	0.000	100.0#	0#	-6.05#
50	TMC	4-Chloro-3-methylphenol	0.269	0.000	100.0#	0#	0.00
51	TM	N-N-di-n-butylamine	0.260	0.000	100.0#	0#	-0.01

Evaluate Continuing Calibration Report

Data Path : I:\ACQUDATA\5973D\Data\080516\
Data File : BH350.D
Acq On : 5 Aug 2016 11:39 am
Operator : B.ALLGEIER
Sample : CCV
Misc : BEN 80PPB
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 05 11:56:55 2016
Quant Method : I:\ACQUDATA\5973D\Methods\8270072816.M
Quant Title : 8270 BNA ANALYSIS
QLast Update : Fri Jul 29 08:17:04 2016
Response via : Initial Calibration

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

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
52	TM	Caprolactam	0.113	0.000	100.0#	0#	-6.36#
53	TM	p-Phenylenediamine	0.036	0.000	100.0#	0#	-6.37#
54	TM	Safrole	0.238	0.000	100.0#	0#	-6.55#
55	TM	2-Methylnaphthalene	0.630	0.000	100.0#	0#	-6.63#
56	TM	1-Methylnaphthalene	0.598	0.000	100.0#	0#	-6.73#
57	IR	d10-Acenaphthene	1.000	1.000	0.0	111	0.00
58	TPM	Hexachlorocyclopentadiene	0.200	0.000#	100.0#	0#	-6.78#
59	TM	1,2,4,5-Tetrachlorobenzene	0.498	0.000	100.0#	0#	-6.80#
60	TM	1,2,3,4-Tetrachlorobenzene	0.529	0.000	100.0#	0#	-7.07#
61	TCM	2,4,6-Trichlorophenol	0.313	0.000	100.0#	0#	-6.91#
62	TM	2,4,5-Trichlorophenol	0.325	0.000	100.0#	0#	-6.96#
63	S	SURR5,2-FLUOROBIPHENYL	1.281	0.000	100.0#	0#	0.00
64	TM	Isosafrole	0.234	0.000	100.0#	0#	-7.05#
65	TM	1,1'-Biphenyl	1.489	0.000	100.0#	0#	-7.09#
66	TM	2-Chloronaphthalene	1.130	0.000	100.0#	0#	0.00
67	TM	2-Nitroaniline	0.287	0.000	100.0#	0#	-7.21#
68	TM	1,4-Naphthoquinone	0.221	0.000	100.0#	0#	-7.29#
69	TM	m-Dinitrobenzene	0.147	0.000	100.0#	0#	-7.42#
70	TM	Acenaphthylene	1.731	0.001	99.9#	0#	-0.02
71	TM	Dimethyl phthalate	1.167	0.001	99.9#	0#	-0.01
72	TM	2,6-Dinitrotoluene	0.230	0.000	100.0#	0#	-7.45#
73	TMC	Acenaphthene	1.143	0.001	99.9#	0#	-0.03
74	TM	3-Nitroaniline	0.305	0.000	100.0#	0#	-7.62#
75	TPM	2,4-Dinitrophenol	0.069	0.000#	100.0#	0#	-7.73#
76	TM	Dibenzofuran	1.537	0.001	99.9#	0#	0.00
77	TM	2,4-Dinitrotoluene	0.278	0.000	100.0#	0#	-7.85#
78	TMP	4-Nitrophenol	0.179	0.002#	98.9#	1#	-0.16
79	TM	Pentachlorobenzene	0.432	0.000	100.0#	0#	-7.81#
80	TM	1-Napthylamine	1.138	0.000	100.0#	0#	-7.93#
81	TM	2-Napthylamine	1.206	0.000	100.0#	0#	-8.01#
82	TM	2,3,4,6-Tetrachlorophenol	0.225	0.000	100.0#	0#	-7.98#
83	TM	Fluorene	1.263	0.000	100.0#	0#	-0.02
84	TM	4-Chlorophenyl-phenylether	0.575	0.000	100.0#	0#	0.00
85	TM	Diethylphthalate	1.219	0.001	99.9#	0#	0.00
86	TM	4-Nitroaniline	0.329	0.000	100.0#	0#	-8.22#
87	TM	5-Nitro-o-toluidine	0.337	0.000	100.0#	0#	-8.21#
88	S	SURR3,2,4,6-TRIBROMOPHENOL	0.152	0.000	100.0#	0#	-8.43#
89	TM	Sulfotepp	0.159	0.000	100.0#	0#	-8.46#
90	TM	Octachlorocyclopentene	0.165	0.000	100.0#	0#	-8.44#
91	IR	d10-Phenanthrene	1.000	1.000	0.0	105	0.00
92	TM	Thionazin	0.143	0.000	100.0#	0#	-8.16#
93	TM	4,6-Dinitro-2-methylphenol	0.078	0.000	100.0#	0#	-8.25#
94	TM	Diphenylamine	0.657	0.000	100.0#	0#	0.00
95	TM	1,2 Diphenylhydrazine	0.848	0.001	99.9#	0#	0.00
96	TCM	N-Nitrosodiphenylamine	0.657	0.000	100.0#	0#	0.00
97	TM	1,3,5-Trinirobenzene	0.036	0.000	100.0#	0#	-8.60#
98	TM	Diallate	0.322	0.000	100.0#	0#	0.14
99	TM	Phorate	0.158	0.000	100.0#	0#	-8.60#
100	TM	Phenacetin	0.424	0.000	100.0#	0#	-8.62#
101	TM	4-Bromophenyl-phenylether	0.199	0.000	100.0#	0#	-8.67#

Evaluate Continuing Calibration Report

1st BA 08/08/16
2nd MW 08/09/16

Data Path : I:\ACQUDATA\5973D\Data\080516\
Data File : BH350.D
Acq On : 5 Aug 2016 11:39 am
Operator : B.ALLGEIER
Sample : CCV
Misc : BEN 80PPB
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 05 11:56:55 2016
Quant Method : I:\ACQUDATA\5973D\Methods\8270072816.M
Quant Title : 8270 BNA ANALYSIS
QLast Update : Fri Jul 29 08:17:04 2016
Response via : Initial Calibration

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

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
102	TM	Hexachlorobenzene	0.226	0.000	100.0#	0#	0.00
103	TM	Dimethoate	0.279	0.000	100.0#	0#	-8.77#
104	TM	Atrazine	0.093	0.000	100.0#	0#	-8.83#
105	TCM	Pentachlorophenol	0.094	0.000	100.0#	0#	-8.94#
106	TM	4-Aminobiphenyl	0.784	0.002	99.7#	0#	-0.02
107	TM	Pentachloronitrobenzene	0.078	0.000	100.0#	0#	-8.94#
108	TM	Pronamide	0.363	0.000	100.0#	0#	-8.98#
109	TM	Dinoseb	0.107	0.000	100.0#	0#	-9.11#
110	TM	Disulfoton	0.414	0.005	98.8#	1#	0.00
111	TM	Phenanthrene	1.058	0.001	99.9#	0#	-0.01
112	TM	Anthracene	1.061	0.001	99.9#	0#	-0.01
113	TM	Carbazole	1.125	0.001	99.9#	0#	0.00
114	TM	Di-n-butylphthalate	1.269	0.000	100.0#	0#	0.00
115	TM	4-Nitroquinonline-1-oxide	0.052	0.000	100.0#	0#	-9.92#
116	TCM	Fluoranthene	1.128	0.000	100.0#	0#	0.00
117	IR	d12-Chrysene	1.000	1.000	0.0	91	-0.01
118	TM	Methyl Parathion	0.190	0.000	100.0#	0#	-9.48#
119	TM	Ethyl Parathion	0.141	0.000	100.0#	0#	0.11
120	TM	Methapyrilene	0.319	0.000	100.0#	0#	-9.98#
121	TM	Isodrin	0.115	0.000	100.0#	0#	-10.18#
122	TM	Benzidine	0.822	0.000	100.0#	0#	0.00
123	TM	Pyrene	1.263	0.001	99.9#	0#	-0.01
124	S	SURR6,TERPHENYL-D14	0.822	0.000	100.0#	0#	-10.80#
125	TM	Aramite	0.163	0.000	100.0#	0#	-10.87#
126	TM	p-(Dimethylamino)azobenzene	0.379	0.000	100.0#	0#	-10.99#
127	TM	Chlorobenzilate	0.430	0.000	100.0#	0#	-11.04#
128	TM	Butyl benzyl phthalate	0.638	0.000	100.0#	0#	0.00
129	TM	3,3-Dimethylbenzidine	0.819	0.000	100.0#	0#	0.00
130	TM	2-Acetylaminofluorene	0.543	0.000	100.0#	0#	-0.10
131	TM	3,3'-Dichlorobenzidine	0.447	0.000	100.0#	0#	-12.34#
132	TM	Benzo(a)anthracene	1.138	0.002	99.8#	0#	0.00
133	TM	Chrysene	1.088	0.000	100.0#	0#	-0.03
134	TM	bis(2-Ethylhexyl)phthalate	0.909	0.001	99.9#	0#	-0.01
135	IR	d12-Perylene	1.000	1.000	0.0	103	-0.02
136	TCM	Di-n-octyl phthalate	1.571	0.000	100.0#	0#	-13.77#
137	TM	7,12-Dimethylbenz(a)anthrac	0.578	0.000	100.0#	0#	-14.48#
138	TM	Benzo(b)Fluoranthene	1.153	0.000	100.0#	0#	-0.02
139	TM	Benzo(k)fluoranthene	1.074	0.000	100.0#	0#	-0.01
140	TCM	Benzo(a)pyrene	0.990	0.000	100.0#	0#	0.00
141	TM	3-Methylcholanthrene	0.583	0.000	100.0#	0#	-15.96#
142	TM	Indeno(1,2,3-cd)Pyrene	0.782	0.000	100.0#	0#	-17.26#
143	TM	Dibenz(a,h)anthracene	0.894	0.000	100.0#	0#	-17.31#
144	TM	Benzo(g,h,i)perylene	0.784	0.000	100.0#	0#	-17.71#

(#) = Out of Range SPCC's out = 4 CCC's out = 13

1st BA 08/08/16
2nd MWC 08/09/16

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\5973D\Data\080516\
Data File : BH350.D
Acq On : 5 Aug 2016 11:39 am
Operator : B.ALLGEIER
Sample : CCV
Misc : BEN 80PPB
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 05 11:56:55 2016
Quant Method : I:\ACQUDATA\5973D\Methods\8270072816.M
Quant Title : 8270 BNA ANALYSIS
QLast Update : Fri Jul 29 08:17:04 2016
Response via : Initial Calibration

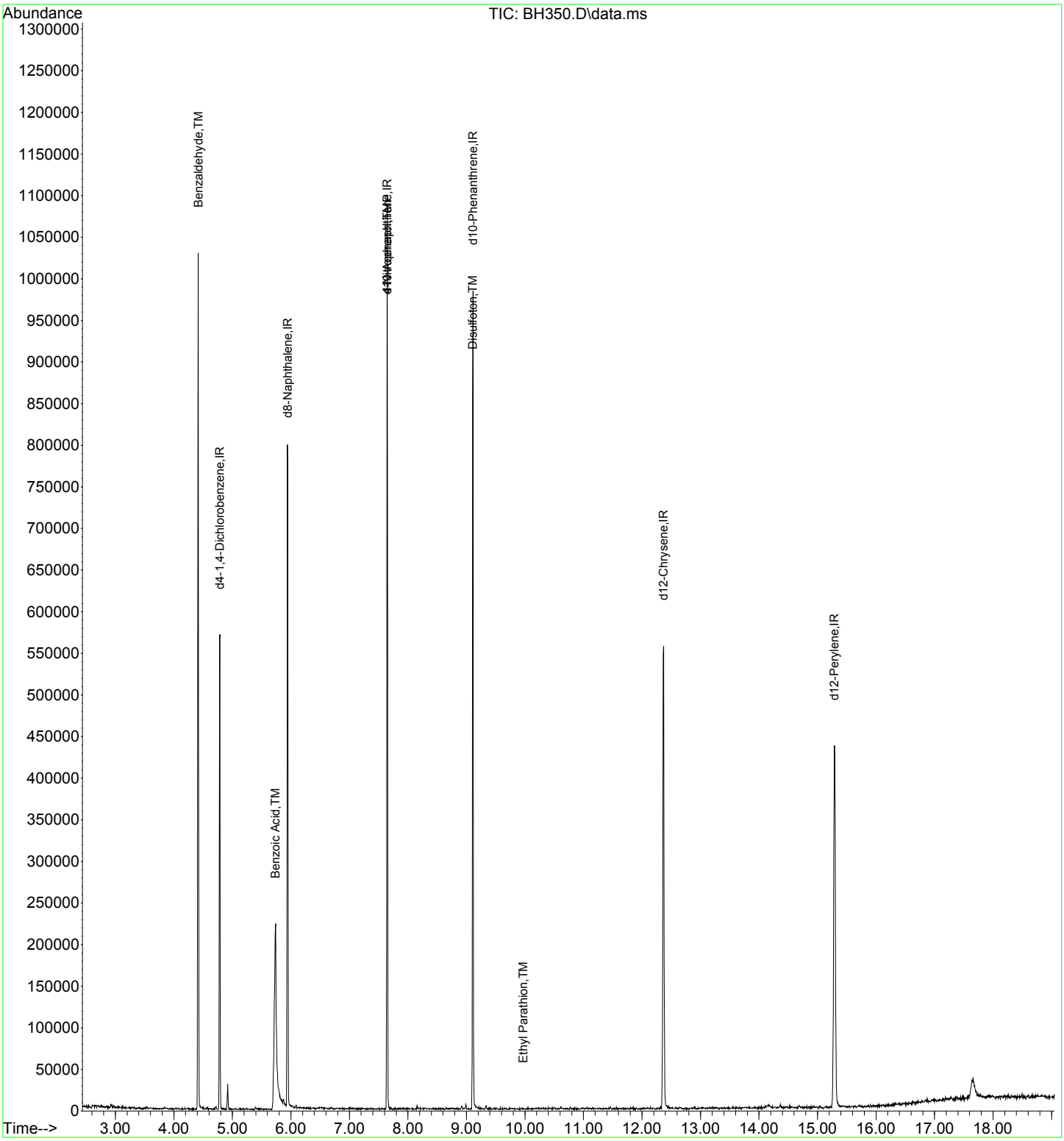
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) d4-1,4-Dichlorobenzene	4.785	152	92480	40.00	ppm	0.00
33) d8-Naphthalene	5.946	136	377087	40.00	ppm	0.00
57) d10-Acenaphthene	7.646	164	215621	40.00	ppm	0.00
91) d10-Phenanthrene	9.112	188	339935	40.00	ppm	0.00
117) d12-Chrysene	12.369	240	273835	40.00	ppm	-0.01
135) d12-Perylene	15.290	264	293314	40.00	ppm	-0.02
System Monitoring Compounds						
7) SURR1,2-FLUOROPHENOL	0.000	112	0	0.00	ppm	
Spiked Amount 200.000	Range 10 - 105		Recovery	=	0.00%#	
12) SURR2,PHENOL-D6	0.000	99	0	0.00	ppm	
Spiked Amount 200.000	Range 10 - 107		Recovery	=	0.00%#	
34) SURR4,NITROBENZENE-D5	0.000	82	0	0.00	ppm	
Spiked Amount 100.000	Range 31 - 110		Recovery	=	0.00%#	
63) SURR5,2-FLUOROBIPHENYL	6.994	172	110	0.02	ppm	0.00
Spiked Amount 100.000	Range 31 - 118		Recovery	=	0.02%#	
88) SURR3,2,4,6-TRIBROMOPH...	0.000	330	0	0.00	ppm	
Spiked Amount 200.000	Range 35 - 141		Recovery	=	0.00%#	
124) SURR6,TERPHENYL-D14	0.000	244	0	0.00	ppm	
Spiked Amount 100.000	Range 30 - 133		Recovery	=	0.00%#	
Target Compounds						Qvalue
10) Benzaldehyde	4.416	106	195939	89.26	ppm	97
39) Benzoic Acid	5.737	105	154490	124.51	ppm	92
78) 4-Nitrophenol	7.646	65	995	1.03	ppm #	30
110) Disulfoton	9.107	88	3717	1.06	ppm	47
119) Ethyl Parathion	9.973	97	133	2.48	ppm #	1

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

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\5973D\Data\080516\
Data File : BH350.D
Acq On : 5 Aug 2016 11:39 am
Operator : B.ALLGEIER
Sample : CCV
Misc : BEN 80PPB
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 05 11:56:55 2016
Quant Method : I:\ACQUDATA\5973D\Methods\8270072816.M
Quant Title : 8270 BNA ANALYSIS
QLast Update : Fri Jul 29 08:17:04 2016
Response via : Initial Calibration



1st DM 08/10/16
2nd BA 08/10/16

Evaluate Continuing Calibration Report

Data Path : I:\ACQUDATA\5973D\Data\080916\
Data File : BH403.D
Acq On : 9 Aug 2016 7:57 am
Operator : J.Misiurewicz
Sample : CCV Inst : 5973D
Misc : 80 ppm STD 8270 BENZ
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 10 07:58:42 2016
Quant Method : I:\ACQUDATA\5973D\Methods\BENZ0705D.M
Quant Title : 8270 BNA ANALYSIS
QLast Update : Tue Jul 05 12:15:19 2016
Response via : Initial Calibration

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

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 IR	d4-1,4-Dichlorobenzene	1.000	1.000	0.0	120	-0.03
2 TM	Benzaldehyde	0.991	0.982	0.9	120	-0.03
3 IR	d8-Naphthalene	1.000	1.000	0.0	127	-0.03
4 TM	Benzoic Acid	0.196	0.197	-0.5	131	-0.02
5 IR	d10-Acenaphthene	1.000	1.000	0.0	124	-0.03
6 IR	d10-Phenanthrene	1.000	1.000	0.0	131	-0.03
7 IR	d12-Chrysene	1.000	1.000	0.0	119	-0.05
8 IR	d12-Perylene	1.000	1.000	0.0	126	-0.06

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

1st DM 08/10/16
2nd BA 08/10/16

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\5973D\Data\080916\
Data File : BH403.D
Acq On : 9 Aug 2016 7:57 am
Operator : J.Misiurewicz
Sample : CCV Inst : 5973D
Misc : 80 ppm STD 8270 BENZ
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 10 07:58:42 2016
Quant Method : I:\ACQUDATA\5973D\Methods\BENZ0705D.M
Quant Title : 8270 BNA ANALYSIS
QLast Update : Tue Jul 05 12:15:19 2016
Response via : Initial Calibration

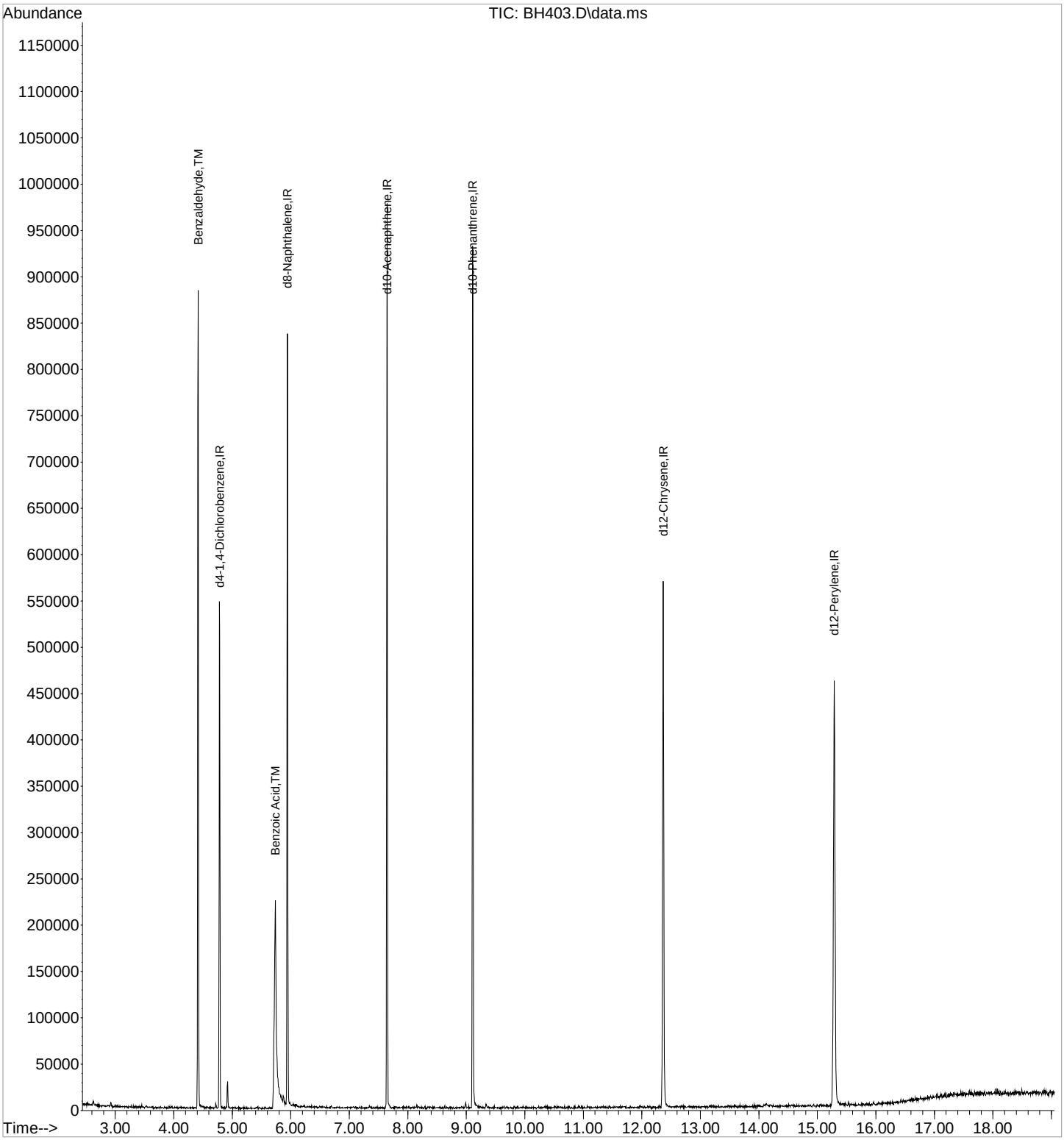
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) d4-1,4-Dichlorobenzene	4.785	152	89408	40.00	ppm	-0.03
3) d8-Naphthalene	5.940	136	366339	40.00	ppm	-0.03
5) d10-Acenaphthene	7.646	164	207859	40.00	ppm	-0.03
6) d10-Phenanthrene	9.107	188	339033	40.00	ppm	-0.03
7) d12-Chrysene	12.364	240	269081	40.00	ppm	-0.05
8) d12-Perylene	15.290	264	285369	40.00	ppm	-0.06
Target Compounds						Qvalue
2) Benzaldehyde	4.416	106	175545	79.26	ppm	97
4) Benzoic Acid	5.737	105	144282	80.43	ppm	94

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

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\5973D\Data\080916\
Data File : BH403.D
Acq On : 9 Aug 2016 7:57 am
Operator : J.Misiurewicz
Sample : CCV Inst : 5973D
Misc : 80 ppm STD 8270 BENZ
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 10 07:58:42 2016
Quant Method : I:\ACQUDATA\5973D\Methods\BENZ0705D.M
Quant Title : 8270 BNA ANALYSIS
QLast Update : Tue Jul 05 12:15:19 2016
Response via : Initial Calibration

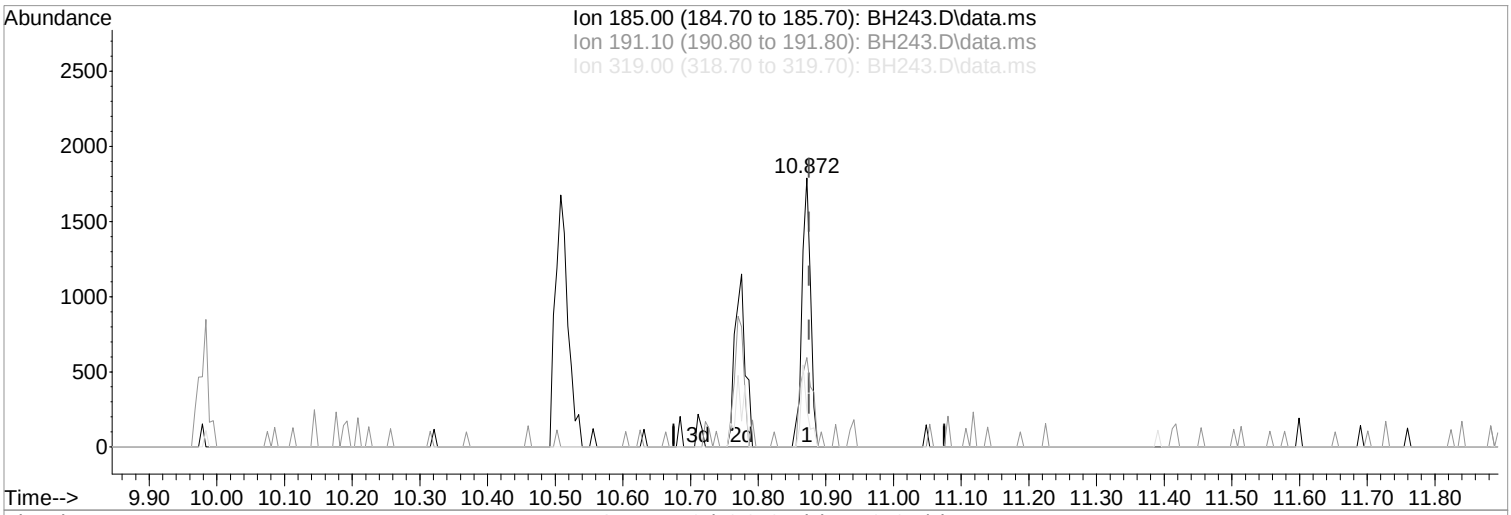


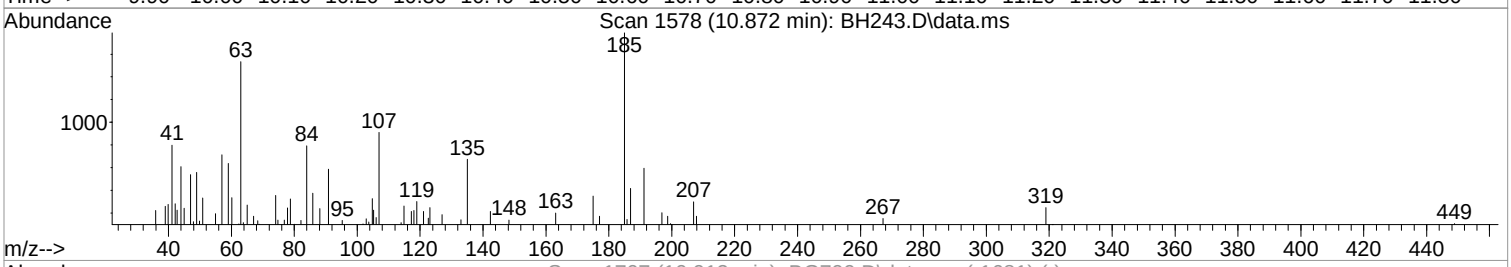
1st DM 07/29/16
2nd MW 07/29/16

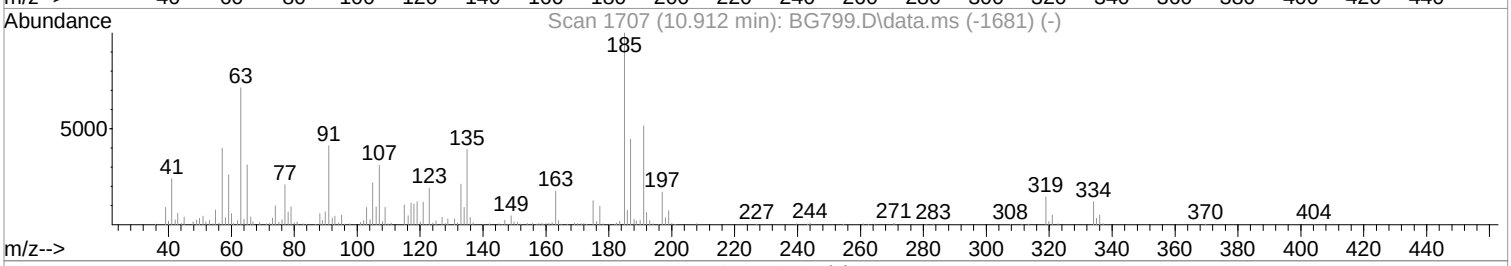
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\5973D\Data\072816\
Data File : BH243.D
Acq On : 28 Jul 2016 2:43 pm
Operator : J.Misiurewicz
Sample : 2.5 ppm STD Inst : 5973D
Misc : Initial Calibration 8270D/625
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jul 29 07:41:06 2016
Quant Method : I:\ACQUDATA\5973D\Methods\8270072816.M
Quant Title : 8270 BNA ANALYSIS
QLast Update : Fri Jul 29 07:31:03 2016
Response via : Initial Calibration







TIC: BH243.D\data.ms

(125) Aramite (TM)

10.872min (-0.004) 4.75 ppm m

response 2837

Ion	Exp%	Act%
185.00	100	100
191.10	48.70	33.26
319.00	15.90	13.86
0.00	0.00	0.00

Manual Integration:

After

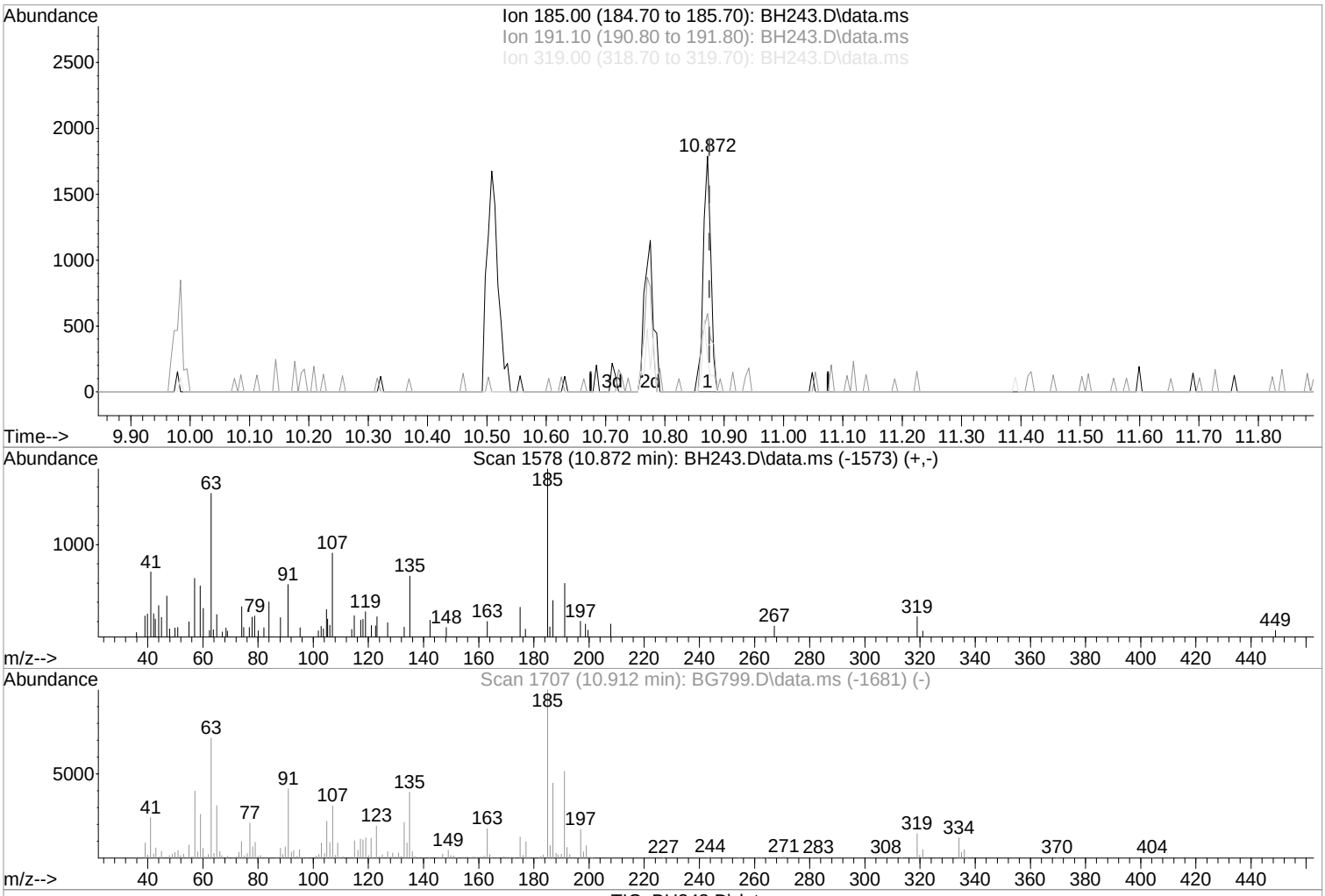
Split Peak

07/29/16

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\5973D\Data\072816\
Data File : BH243.D
Acq On : 28 Jul 2016 2:43 pm
Operator : J.Misiurewicz
Sample : 2.5 ppm STD Inst : 5973D
Misc : Initial Calibration 8270D/625
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jul 29 07:41:06 2016
Quant Method : I:\ACQUDATA\5973D\Methods\8270072816.M
Quant Title : 8270 BNA ANALYSIS
QLast Update : Fri Jul 29 07:31:03 2016
Response via : Initial Calibration



(125) Aramite (TM)

10.872min (-0.004) 2.66 ppm

response 1586

Ion	Exp%	Act%
185.00	100	100
191.10	48.70	30.46
319.00	15.90	13.86
0.00	0.00	0.00

Manual Integration:

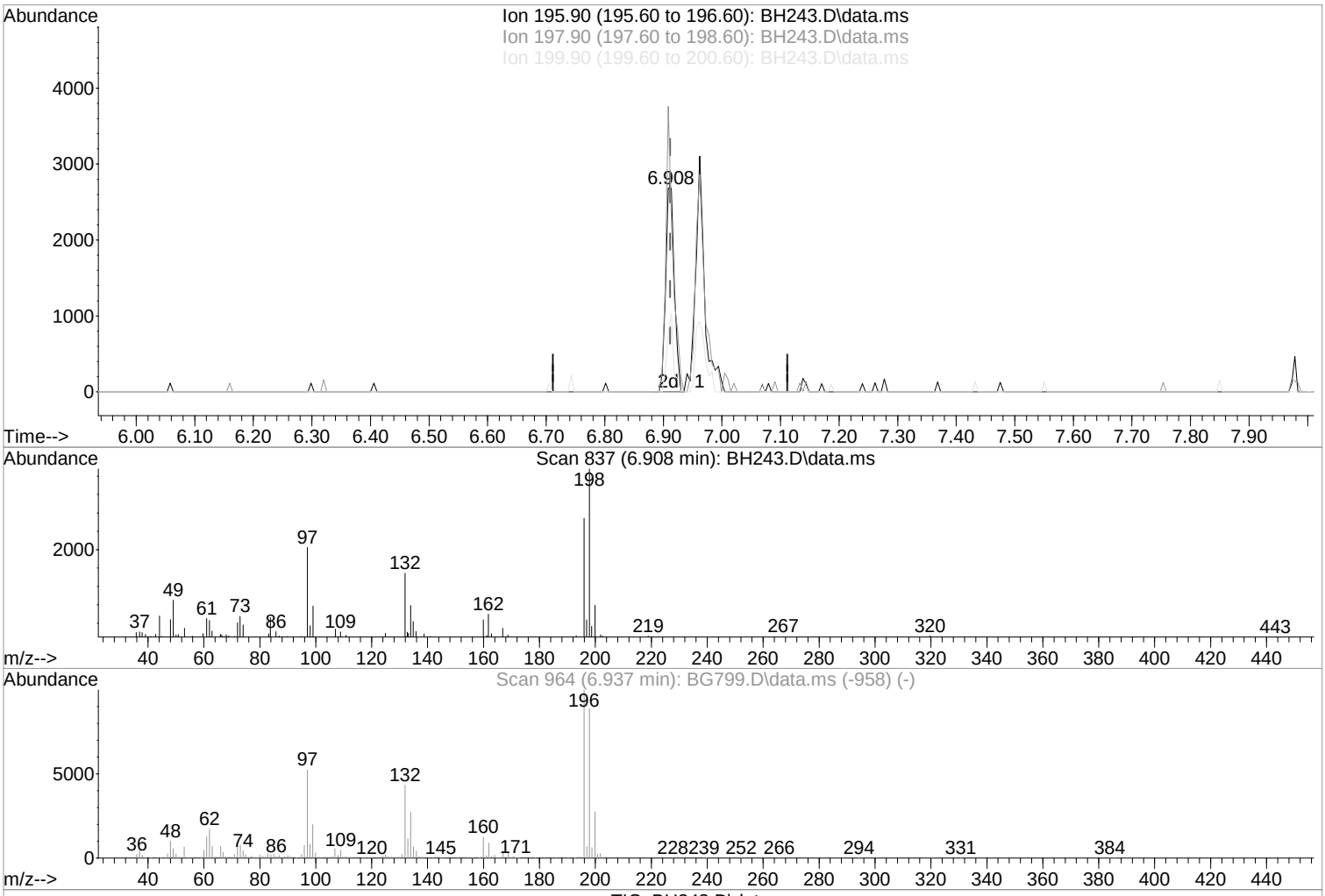
Before

07/29/16

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\5973D\Data\072816\
Data File : BH243.D
Acq On : 28 Jul 2016 2:43 pm
Operator : J.Misiurewicz
Sample : 2.5 ppm STD Inst : 5973D
Misc : Initial Calibration 8270D/625
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jul 29 07:41:06 2016
Quant Method : I:\ACQUDATA\5973D\Methods\8270072816.M
Quant Title : 8270 BNA ANALYSIS
QLast Update : Fri Jul 29 07:31:03 2016
Response via : Initial Calibration



(61) 2,4,6-Trichlorophenol (TCM)

6.908min (-0.004) 1.99 ppm m

response 2786

Ion	Exp%	Act%
195.90	100	100
197.90	94.40	140.14#
199.90	32.50	29.48
0.00	0.00	0.00

Manual Integration:

After

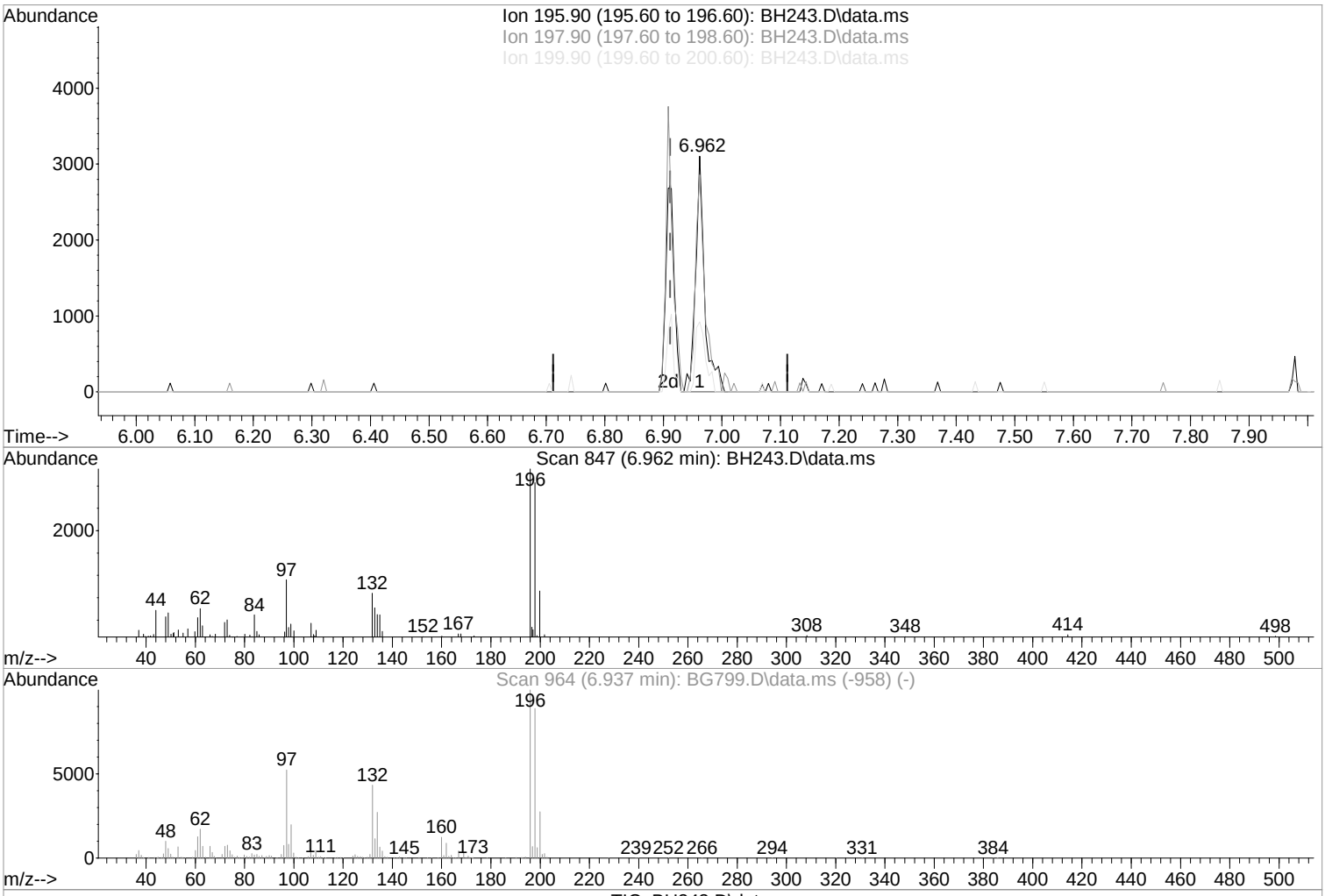
Wrong peak selected.

07/29/16

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\5973D\Data\072816\
Data File : BH243.D
Acq On : 28 Jul 2016 2:43 pm
Operator : J.Misiurewicz
Sample : 2.5 ppm STD Inst : 5973D
Misc : Initial Calibration 8270D/625
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jul 29 07:41:06 2016
Quant Method : I:\ACQUDATA\5973D\Methods\8270072816.M
Quant Title : 8270 BNA ANALYSIS
QLast Update : Fri Jul 29 07:31:03 2016
Response via : Initial Calibration



(61) 2,4,6-Trichlorophenol (TCM)

6.962min (+0.050) 2.41 ppm

response 3381

Ion	Exp%	Act%
195.90	100	100
197.90	94.40	84.58
199.90	32.50	27.29
0.00	0.00	0.00

Manual Integration:

Before

07/29/16

1st DM 07/29/16
2nd MWC 07/29/16

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\5973D\Data\072816\
Data File : BH243.D
Acq On : 28 Jul 2016 2:43 pm
Operator : J.Misiurewicz
Sample : 2.5 ppm STD Inst : 5973D
Misc : Initial Calibration 8270D/625
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jul 29 07:44:47 2016
Quant Method : I:\ACQUDATA\5973D\Methods\8270072816.M
Quant Title : 8270 BNA ANALYSIS
QLast Update : Fri Jul 29 07:31:03 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) d4-1,4-Dichlorobenzene	4.790	152	72271	40.00	ppm	0.00
33) d8-Naphthalene	5.946	136	303491	40.00	ppm	0.00
57) d10-Acenaphthene	7.652	164	175760	40.00	ppm	0.00
91) d10-Phenanthrene	9.117	188	300036	40.00	ppm	0.00
117) d12-Chrysene	12.375	240	273929	40.00	ppm	-0.01
135) d12-Perylene	15.306	264	282440	40.00	ppm	0.00
System Monitoring Compounds						
7) SURR1,2-FLUOROPHENOL	3.721	112	6095	2.24	ppm	0.00
Spiked Amount 200.000	Range 10 - 105		Recovery	=	1.12%#	
12) SURR2,PHENOL-D6	4.464	99	6988	2.22	ppm	0.00
Spiked Amount 200.000	Range 10 - 107		Recovery	=	1.11%#	
34) SURR4,NITROBENZENE-D5	5.277	82	5516	2.30	ppm	0.00
Spiked Amount 100.000	Range 31 - 110		Recovery	=	2.30%#	
63) SURR5,2-FLUOROBIPHENYL	6.983	172	14699	2.61	ppm	0.00
Spiked Amount 100.000	Range 31 - 118		Recovery	=	2.61%#	
88) SURR3,2,4,6-TRIBROMOPH...	8.433	330	1304	1.95	ppm	0.00
Spiked Amount 200.000	Range 35 - 141		Recovery	=	0.97%#	
124) SURR6,TERPHENYL-D14	10.802	244	12707	2.26	ppm	0.00
Spiked Amount 100.000	Range 30 - 133		Recovery	=	2.26%#	
Target Compounds						Qvalue
2) Pyridine	2.752	79	7810	2.72	ppm	95
3) N-Nitrosodimethylamine	2.699	74	3877	2.35	ppm	93
4) 2-Picoline	3.293	93	6661	2.33	ppm	97
5) N-Nitrosomethylamine	3.362	42	4820	3.25	ppm	96
6) Methyl Methansulfonate	3.587	80	3187	2.40	ppm	94
8) N-Nitrosodiethylamine	3.897	102	2443	2.17	ppm	96
9) Ethyl Mathanesulfonate	4.127	79	4903	2.31	ppm	98
10) Benzaldehyde	4.421	106	4194	2.44	ppm	92
11) Aniline	4.502	93	10878	2.38	ppm	80
13) Phenol	4.469	94	8045	2.52	ppm	90
14) bis(2-Clethyl)Ether	4.544	93	6303	2.56	ppm	94
15) Pentachloroethane	4.550	117	2267	2.54	ppm	98
16) 2-Chlorophenol	4.608	128	5585	2.17	ppm	98
17) 1,3-Diclbenzene	4.737	146	6750	2.40	ppm	98
18) 1,4-Dichlorobenzene	4.801	146	7477	2.57	ppm	95
19) 1,2-Diclbenzene	4.935	146	6701	2.41	ppm	78
20) Benzyl Alcohol	4.903	79	4477	2.36	ppm	92
21) 1-Methyl-2-pyrrolidinone	4.929	99	4640	2.42	ppm #	78
22) 2,2'-oxybis(1-Chloropr...	5.010	45	8603	2.47	ppm #	75
23) 2-Methylphenol	4.999	108	6275	2.61	ppm	72
24) 3+4-Methylphenol	5.133	108	5460	2.16	ppm	99
25) Acetophenone	5.138	105	10326	2.51	ppm	87
26) N-Nitroso-Di-n-propyla...	5.127	70	5206	2.40	ppm	92
27) N-Nitrosopyrrolidine	5.122	100	3431	2.24	ppm	87
28) N-Nitrosomorpholine	5.154	56	4498	2.66	ppm	84
29) o-Toluidine	5.170	106	10065	2.35	ppm	95
30) Hexachloroethane	5.240	117	2430	2.09	ppm	96
31) o,o,o-Triethylphosphor...	5.673	198	3486	2.72	ppm	86
32) Alpha-terpinol	5.967	121	2430	2.34	ppm	89
35) Nitrobenzene	5.298	77	5692	2.40	ppm	92
36) N-Nitrosopiperidine	5.432	42	4138	2.51	ppm	96
37) Isophorone	5.507	82	11915	2.53	ppm	98
38) 2-Nitrophenol	5.587	139	2076	1.92	ppm	84

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\5973D\Data\072816\
Data File : BH243.D
Acq On : 28 Jul 2016 2:43 pm
Operator : J.Misiurewicz
Sample : 2.5 ppm STD Inst : 5973D
Misc : Initial Calibration 8270D/625
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jul 29 07:44:47 2016
Quant Method : I:\ACQUDATA\5973D\Methods\8270072816.M
Quant Title : 8270 BNA ANALYSIS
QLast Update : Fri Jul 29 07:31:03 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
40) 2,4-Dimethylphenol	5.619	107	5814	2.41 ppm	#	84
41) bis(-2-Chloroethoxy)Me...	5.705	93	7472	2.50 ppm		96
42) 2,4-Dichlorophenol	5.823	162	4458	2.32 ppm		95
43) a,a-Dimethylphenethyla...	5.812	58	16398	2.47 ppm		94
44) 1,2,4-Trichlorobenzene	5.892	180	6037	2.69 ppm		97
45) Naphthalene	5.967	128	20503	2.73 ppm		97
46) 4-Chloroaniline	6.021	127	7798	2.44 ppm		95
47) 2,6-Dichlorophenol	6.026	162	5277	2.62 ppm		99
48) Hexachlorobutadiene	6.074	225	3144	2.56 ppm		95
49) Hexachloropropene	6.047	213	3714	2.54 ppm		84
50) 4-Chloro-3-methylphenol	6.491	107	4397	2.15 ppm		83
51) N-N-di-n-butylamine	6.331	84	6440	3.27 ppm		91
52) Caprolactam	6.347	113	2188	2.54 ppm		83
53) p-Phenylenediamine	6.368	80	702	2.41 ppm	#	62
54) Safrole	6.545	162	4527	2.50 ppm		92
55) 2-Methylnaphthalene	6.630	142	12093	2.53 ppm		99
56) 1-Methylnaphthalene	6.732	142	11848	2.61 ppm		95
58) Hexachlorocyclopentadiene	6.780	237	682	3.22 ppm		75
59) 1,2,4,5-Tetrachloroben...	6.796	216	5917	2.70 ppm		87
60) 1,2,3,4-Tetrachloroben...	7.069	216	5615	2.42 ppm		94
61) 2,4,6-Trichlorophenol	6.908	196	2786m	1.99 ppm		
62) 2,4,5-Trichlorophenol	6.962	196	3381	2.39 ppm		91
64) Isosafrole	7.047	104	2551	2.48 ppm	#	52
65) 1,1'-Biphenyl	7.085	154	15578	2.38 ppm		96
66) 2-Chloronaphthalene	7.106	162	12663	2.55 ppm		99
67) 2-Nitroaniline	7.208	65	2612	2.02 ppm		88
68) 1,4-Naphthoquinone	7.283	158	2137	2.16 ppm		80
69) m-Dinitrobenzene	7.422	168	1177	3.83 ppm	#	47
70) Acenaphthylene	7.513	152	18463	2.43 ppm		95
71) Dimethyl phthalate	7.379	163	12775	2.49 ppm		98
72) 2,6-Dinitrotoluene	7.449	165	1890	1.87 ppm		82
73) Acenaphthene	7.684	153	13310	2.65 ppm		99
74) 3-Nitroaniline	7.614	138	2367	1.77 ppm		74
76) Dibenzofuran	7.850	168	17698	2.62 ppm		99
77) 2,4-Dinitrotoluene	7.844	165	1833	3.41 ppm		86
79) Pentachlorobenzene	7.812	250	4717	2.48 ppm		95
80) 1-Napthylamine	7.930	143	13045	2.61 ppm		96
81) 2-Napthylamine	8.010	143	13474	2.54 ppm		98
82) 2,3,4,6-Tetrachlorophenol	7.978	232	1274	1.29 ppm	#	16
83) Fluorene	8.192	166	14545	2.62 ppm		92
84) 4-Chlorophenyl-phenyle...	8.187	204	5787	2.29 ppm		92
85) Diethylphthalate	8.069	149	13095	2.44 ppm		95
86) 4-Nitroaniline	8.213	138	2847	1.97 ppm		81
87) 5-Nitro-o-toluidine	8.203	152	2390	1.61 ppm		84
89) Sulfotepp	8.454	322	1751	2.51 ppm		83
90) Octachlorocyclopentene	8.433	307	1291	1.78 ppm		97
92) Thionazin	8.149	107	2608	2.43 ppm		95
94) Diphenylamine	8.304	169	24925	5.06 ppm		98
95) 1,2 Diphenylhydrazine	8.342	77	15441	2.43 ppm		94
96) N-Nitrosodiphenylamine	8.304	169	24925	5.06 ppm		98
98) Diallate	8.583	86	6368	2.63 ppm		92
99) Phorate	8.593	121	2872	2.42 ppm		95
100) Phenacetin	8.609	108	6081	1.91 ppm		87
101) 4-Bromophenyl-phenylether	8.673	248	3641	2.44 ppm		84
102) Hexachlorobenzene	8.727	284	4026	2.38 ppm		91
103) Dimethoate	8.764	87	4951	2.36 ppm		94

1st DM 07/29/16
2nd MW 07/29/16

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\5973D\Data\072816\
Data File : BH243.D
Acq On : 28 Jul 2016 2:43 pm
Operator : J.Misiurewicz
Sample : 2.5 ppm STD Inst : 5973D
Misc : Initial Calibration 8270D/625
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jul 29 07:44:47 2016
Quant Method : I:\ACQUDATA\5973D\Methods\8270072816.M
Quant Title : 8270 BNA ANALYSIS
QLast Update : Fri Jul 29 07:31:03 2016
Response via : Initial Calibration

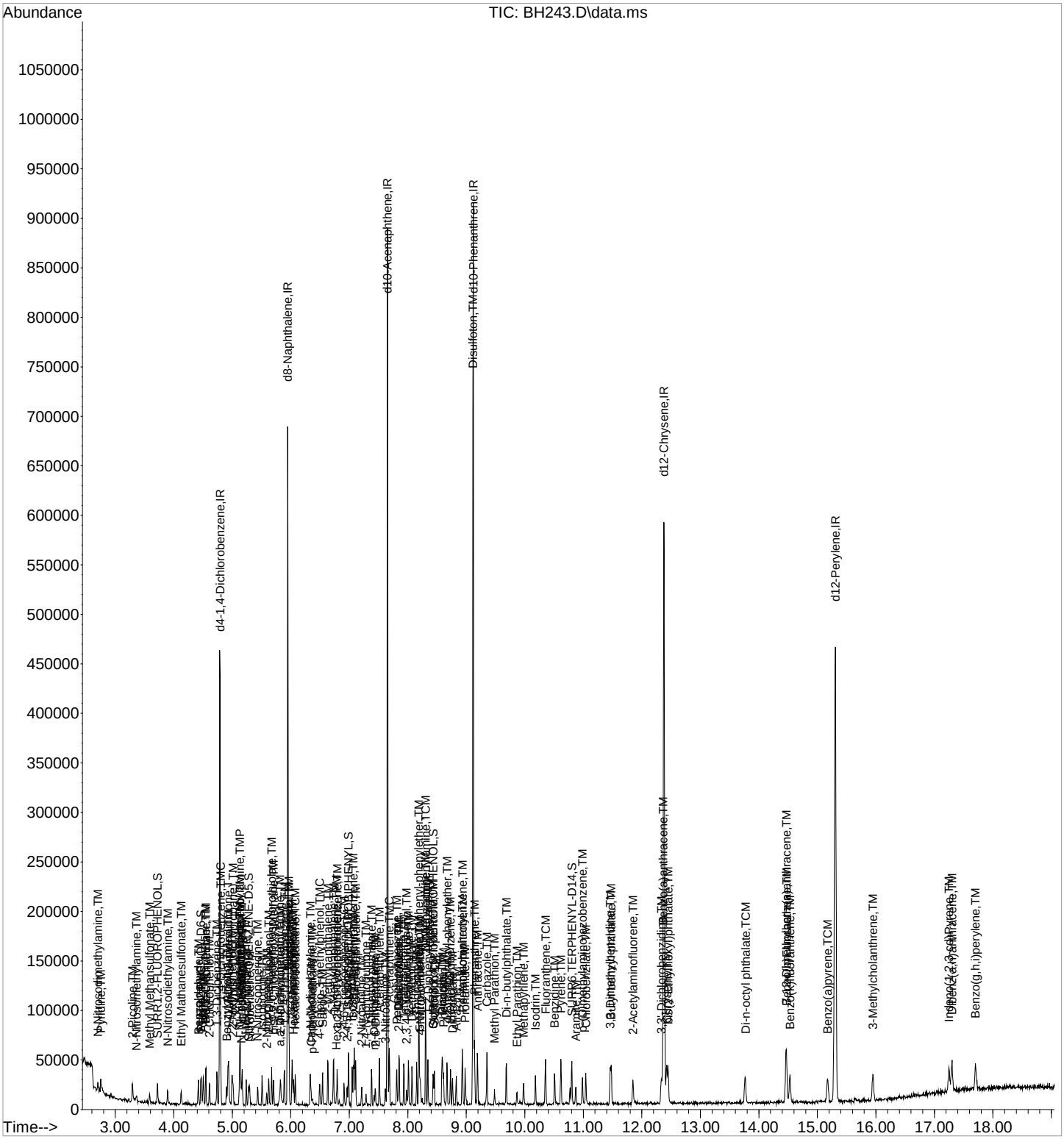
Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
104) Atrazine	8.829	215	1176	1.69 ppm		98
106) 4-Aminobiphenyl	8.930	169	13474	2.29 ppm		94
107) Pentachloronitrobenzene	8.936	237	1047	1.79 ppm		62
108) Pronamide	8.978	173	4869	1.79 ppm		93
110) Disulfoton	9.112	88	9624	3.10 ppm		81
111) Phenanthrene	9.139	178	20327	2.56 ppm		95
112) Anthracene	9.192	178	19469	2.45 ppm		97
113) Carbazole	9.353	167	19477	2.31 ppm		98
114) Di-n-butylphthalate	9.684	149	18605	1.95 ppm		95
116) Fluoranthene	10.353	202	18135	2.14 ppm		92
118) Methyl Parathion	9.481	109	1779	1.37 ppm		78
119) Ethyl Parathion	9.866	97	1435	5.09 ppm		79
120) Methapyrilene	9.979	58	6157	2.81 ppm		99
121) Isodrin	10.182	193	2085	2.65 ppm		87
122) Benzidine	10.508	184	13501	2.40 ppm		98
123) Pyrene	10.615	202	19971	2.31 ppm		96
125) Aramite	10.872	185	2837m	4.75 ppm		
126) p-(Dimethylamino)azobe...	10.984	120	5332	2.05 ppm		90
127) Chlorobenzilate	11.043	139	7107	2.42 ppm		86
128) Butyl benzyl phthalate	11.476	149	10634	2.43 ppm		90
129) 3,3-Dimethylbenzidine	11.455	212	13113	2.34 ppm		95
130) 2-Acetylaminofluorene	11.845	181	8224	2.21 ppm		94
131) 3,3'-Dichlorobenzidine	12.332	252	7301	2.38 ppm		96
132) Benzo(a)anthracene	12.359	228	19536	2.51 ppm		97
133) Chrysene	12.428	228	17628	2.37 ppm		97
134) bis(2-Ethylhexyl)phtha...	12.450	149	14343	2.30 ppm		88
136) Di-n-octyl phthalate	13.771	149	23907	2.16 ppm		97
137) 7,12-Dimethylbenz(a)an...	14.466	256	9227	2.26 ppm		91
138) Benzo(b)Fluoranthene	14.471	252	17732	2.18 ppm		88
139) Benzo(k)fluoranthene	14.530	252	16926	2.23 ppm		98
140) Benzo(a)pyrene	15.172	252	15328	2.19 ppm		98
141) 3-Methylcholanthrene	15.948	268	8176	1.99 ppm		97
142) Indeno(1,2,3-cd)Pyrene	17.247	276	14211	2.57 ppm		93
143) Dibenz(a,h)anthracene	17.301	278	15805	2.50 ppm	#	78
144) Benzo(g,h,i)perylene	17.702	276	15354	2.77 ppm		97

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

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\5973D\Data\072816\
Data File : BH243.D
Acq On : 28 Jul 2016 2:43 pm
Operator : J.Misiurewicz
Sample : 2.5 ppm STD Inst : 5973D
Misc : Initial Calibration 8270D/625
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jul 29 07:44:47 2016
Quant Method : I:\ACQUDATA\5973D\Methods\8270072816.M
Quant Title : 8270 BNA ANALYSIS
QLast Update : Fri Jul 29 07:31:03 2016
Response via : Initial Calibration

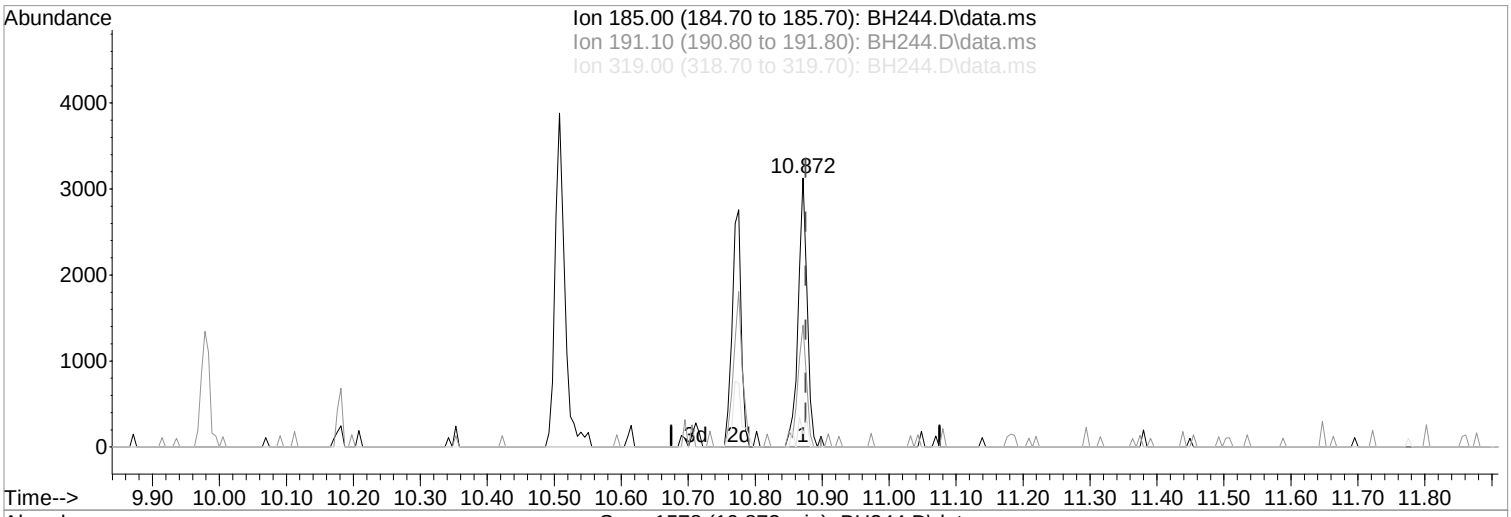


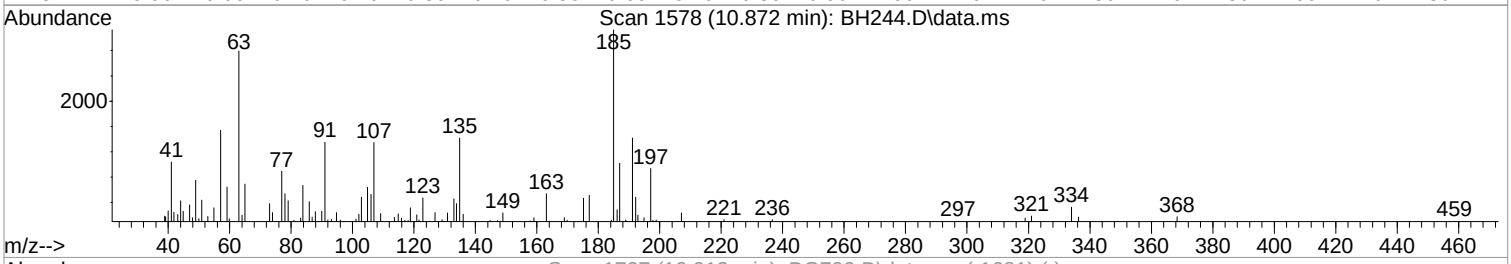
1st DM 07/29/16
2nd MW 07/29/16

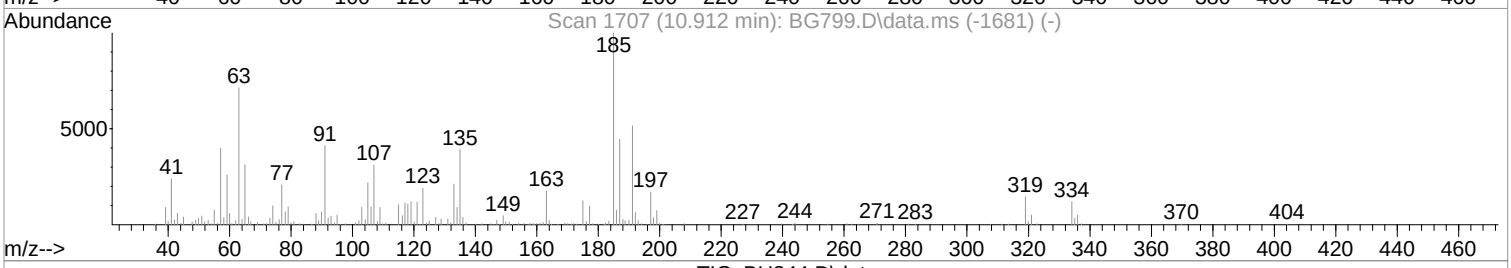
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\5973D\Data\072816\
Data File : BH244.D
Acq On : 28 Jul 2016 3:10 pm
Operator : J.Misiurewicz
Sample : 5.0 ppm STD Inst : 5973D
Misc : Initial Calibration 8270D/625
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jul 29 07:41:10 2016
Quant Method : I:\ACQUDATA\5973D\Methods\8270072816.M
Quant Title : 8270 BNA ANALYSIS
QLast Update : Fri Jul 29 07:31:03 2016
Response via : Initial Calibration







TIC: BH244.D\data.ms

(125) Aramite (TM)

10.872min (-0.004) 9.36 ppm m

response 5612

Ion	Exp%	Act%
185.00	100	100
191.10	48.70	45.30
319.00	15.90	4.89
0.00	0.00	0.00

Manual Integration:

After

Split Peak

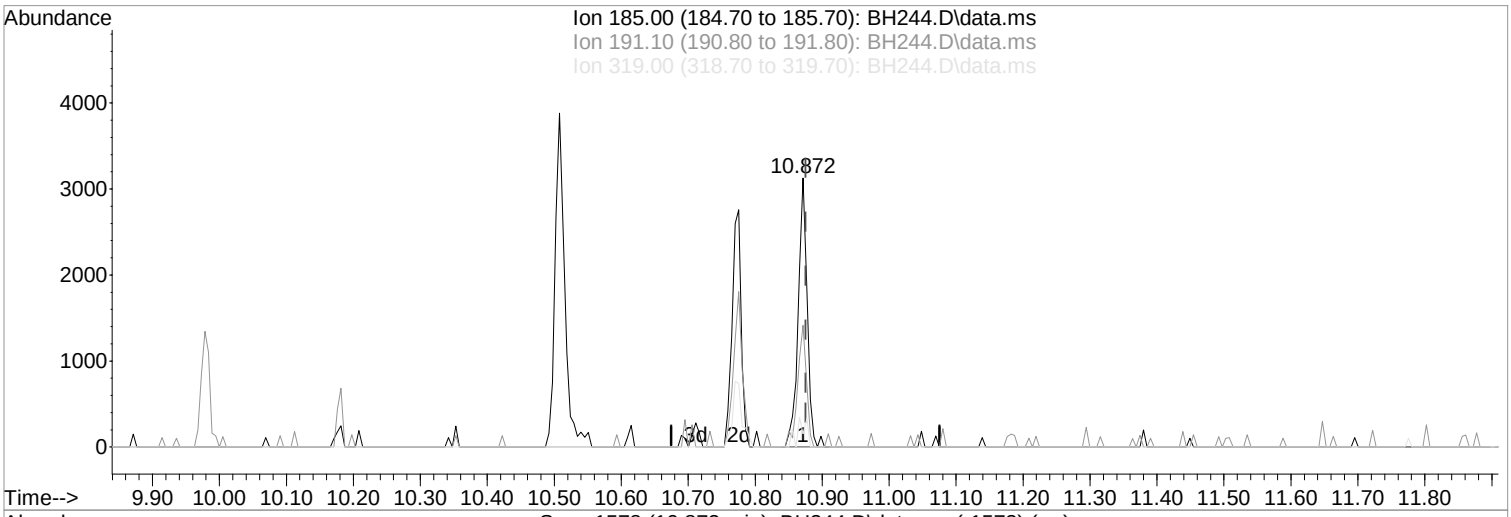
07/29/16

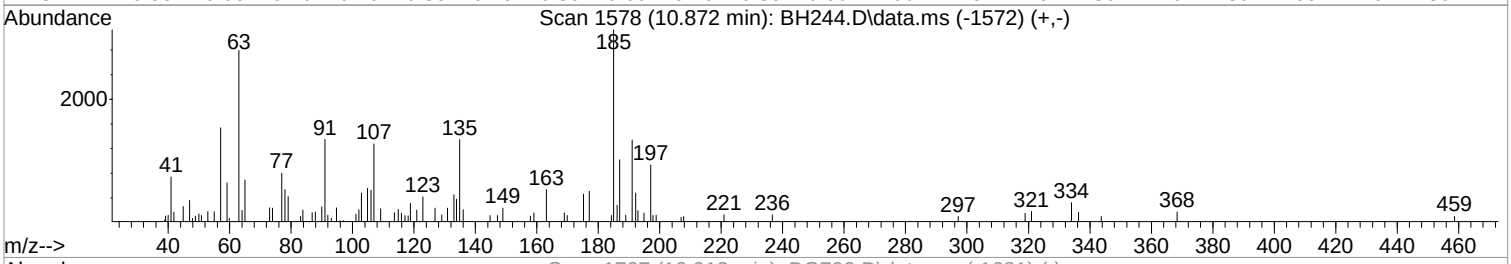
1st DM 07/29/16
2nd MW 07/29/16

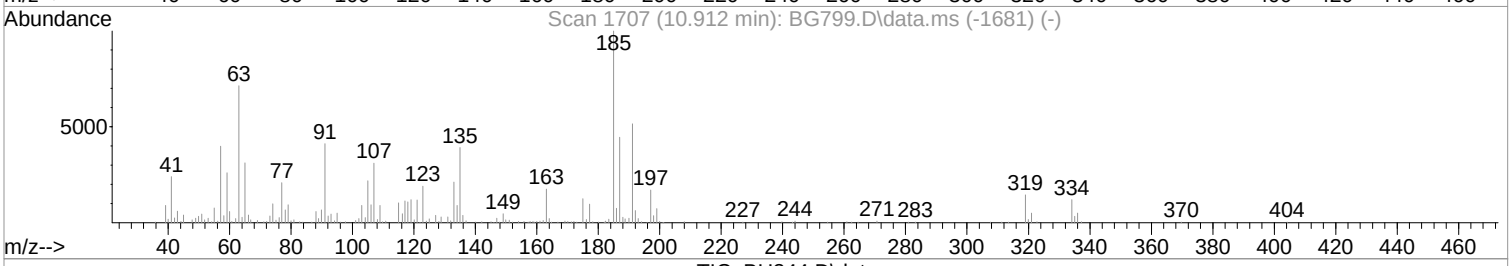
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\5973D\Data\072816\
Data File : BH244.D
Acq On : 28 Jul 2016 3:10 pm
Operator : J.Misiurewicz
Sample : 5.0 ppm STD Inst : 5973D
Misc : Initial Calibration 8270D/625
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jul 29 07:41:10 2016
Quant Method : I:\ACQUDATA\5973D\Methods\8270072816.M
Quant Title : 8270 BNA ANALYSIS
QLast Update : Fri Jul 29 07:31:03 2016
Response via : Initial Calibration







TIC: BH244.D\data.ms

(125) Aramite (TM)

10.872min (-0.004) 4.87 ppm

response 2919

Ion	Exp%	Act%
185.00	100	100
191.10	48.70	42.84
319.00	15.90	4.89
0.00	0.00	0.00

Manual Integration:

Before

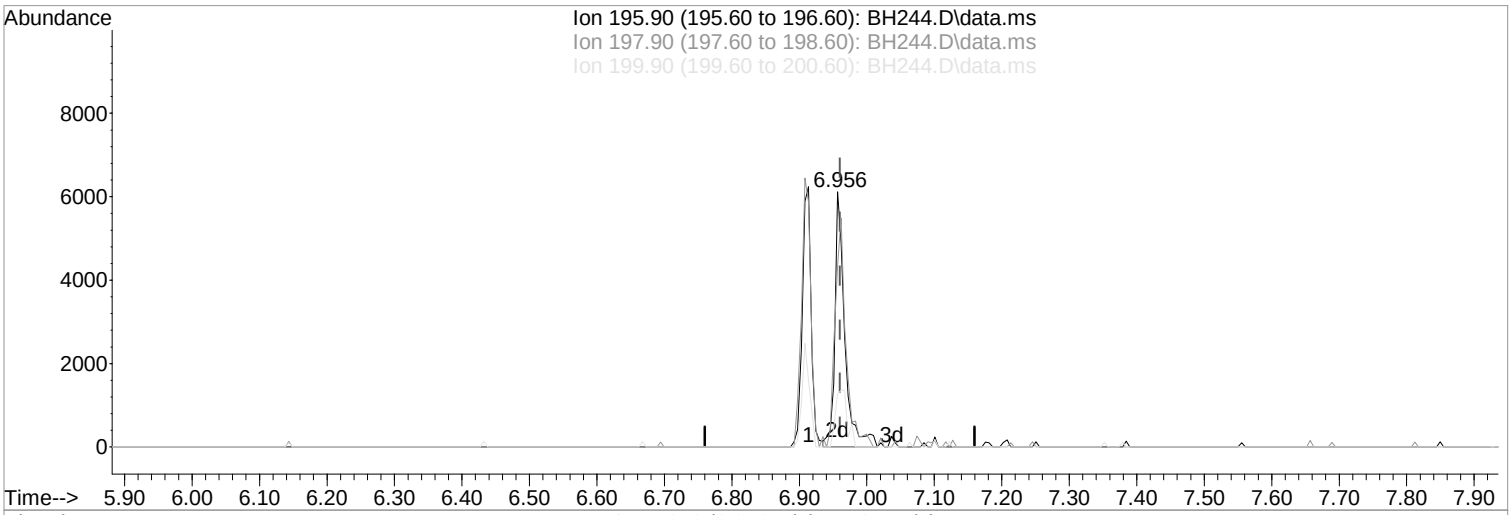
07/29/16

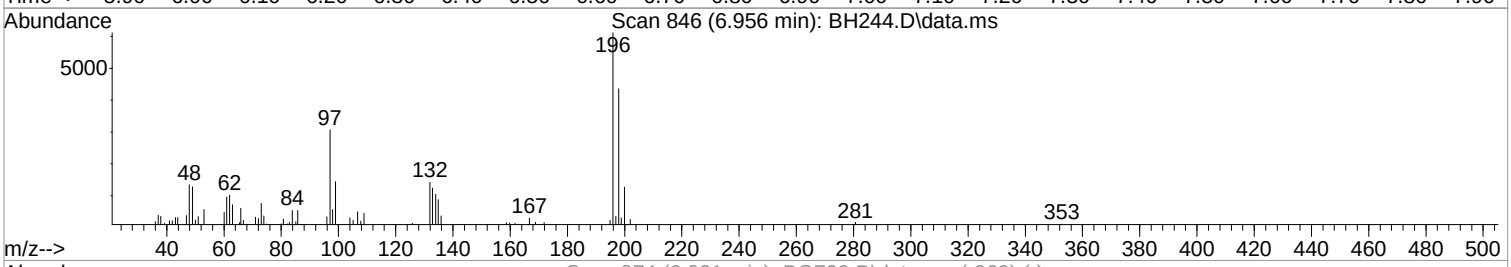
1st DM 07/29/16
2nd MW 07/29/16

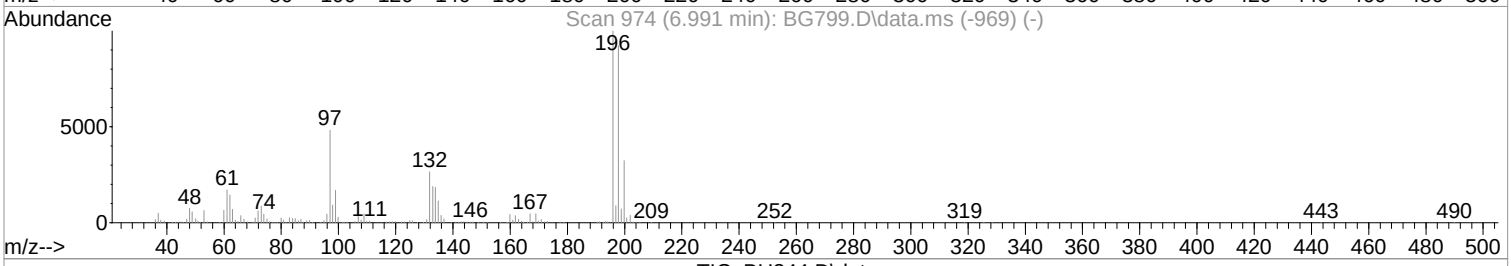
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\5973D\Data\072816\
Data File : BH244.D
Acq On : 28 Jul 2016 3:10 pm
Operator : J.Misiurewicz
Sample : 5.0 ppm STD Inst : 5973D
Misc : Initial Calibration 8270D/625
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jul 29 07:41:10 2016
Quant Method : I:\ACQUDATA\5973D\Methods\8270072816.M
Quant Title : 8270 BNA ANALYSIS
QLast Update : Fri Jul 29 07:31:03 2016
Response via : Initial Calibration







TIC: BH244.D\data.ms

(62) 2,4,5-Trichlorophenol (TM)

6.956min (-0.004) 4.49 ppm m

response 6244

Ion	Exp%	Act%
195.90	100	100
197.90	94.80	71.15#
199.90	28.80	20.83
0.00	0.00	0.00

Manual Integration:

After

Wrong peak selected.

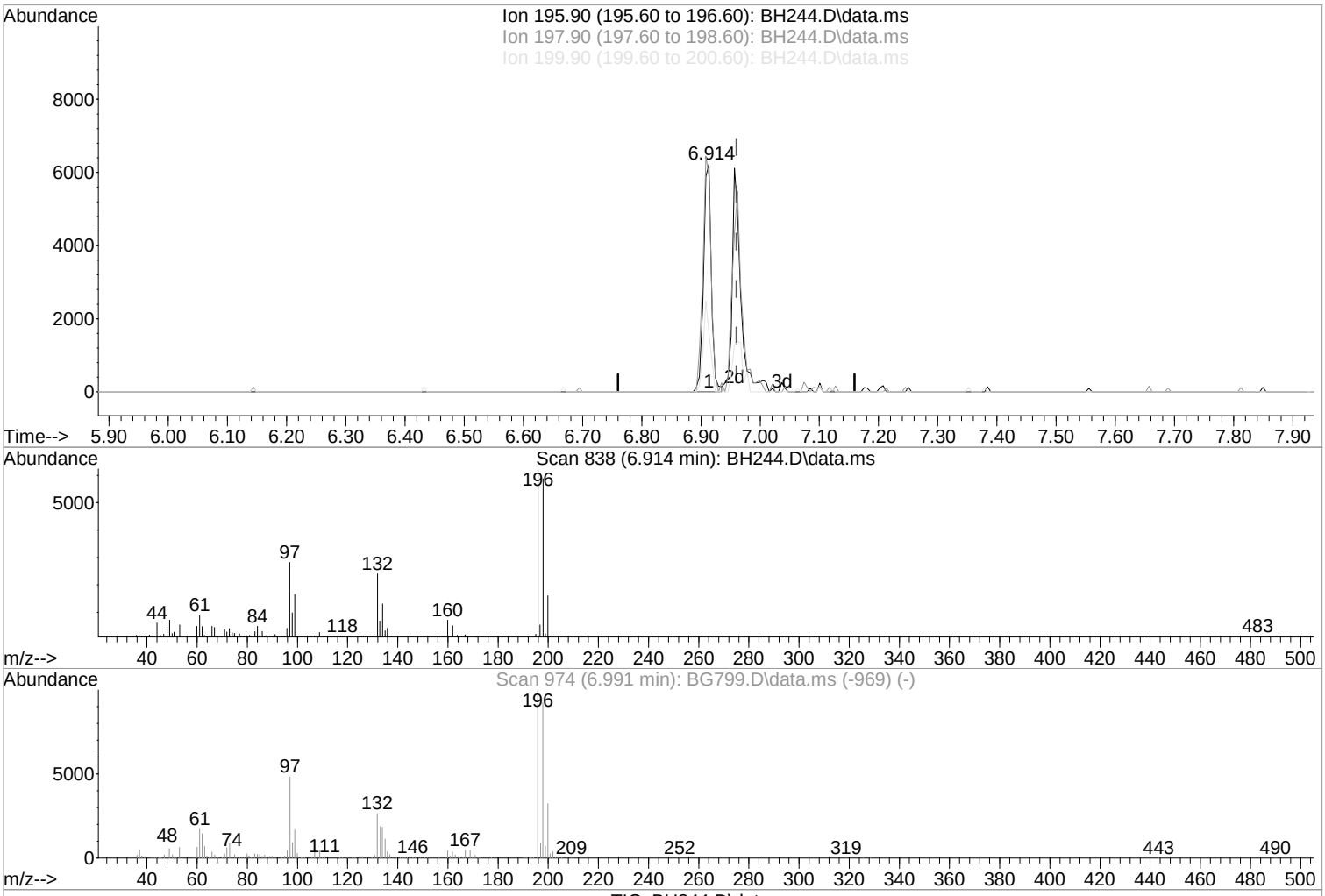
07/29/16

1st DM 07/29/16
2nd MW 07/29/16

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\5973D\Data\072816\
Data File : BH244.D
Acq On : 28 Jul 2016 3:10 pm
Operator : J.Misiurewicz
Sample : 5.0 ppm STD Inst : 5973D
Misc : Initial Calibration 8270D/625
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jul 29 07:41:10 2016
Quant Method : I:\ACQUDATA\5973D\Methods\8270072816.M
Quant Title : 8270 BNA ANALYSIS
QLast Update : Fri Jul 29 07:31:03 2016
Response via : Initial Calibration



(62) 2,4,5-Trichlorophenol (TM)

6.914min (-0.047) 4.09 ppm

response 5690

Ion	Exp%	Act%
195.90	100	100
197.90	94.80	94.24
199.90	28.80	25.76
0.00	0.00	0.00

Manual Integration:

Before

07/29/16

1st DM 07/29/16
2nd MWC 07/29/16

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\5973D\Data\072816\
Data File : BH244.D
Acq On : 28 Jul 2016 3:10 pm
Operator : J.Misiurewicz
Sample : 5.0 ppm STD Inst : 5973D
Misc : Initial Calibration 8270D/625
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jul 29 07:46:49 2016
Quant Method : I:\ACQUDATA\5973D\Methods\8270072816.M
Quant Title : 8270 BNA ANALYSIS
QLast Update : Fri Jul 29 07:31:03 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) d4-1,4-Dichlorobenzene	4.790	152	69909	40.00	ppm	0.00
33) d8-Naphthalene	5.946	136	299920	40.00	ppm	0.00
57) d10-Acenaphthene	7.652	164	173082	40.00	ppm	0.00
91) d10-Phenanthrene	9.117	188	289218	40.00	ppm	0.00
117) d12-Chrysene	12.380	240	275208	40.00	ppm	0.00
135) d12-Perylene	15.306	264	280290	40.00	ppm	0.00
System Monitoring Compounds						
7) SURR1,2-FLUOROPHENOL	3.720	112	13433	5.11	ppm	0.00
Spiked Amount 200.000	Range 10 - 105		Recovery	=	2.56%#	
12) SURR2,PHENOL-D6	4.459	99	14734	4.83	ppm	0.00
Spiked Amount 200.000	Range 10 - 107		Recovery	=	2.42%#	
34) SURR4,NITROBENZENE-D5	5.277	82	10763	4.54	ppm	0.00
Spiked Amount 100.000	Range 31 - 110		Recovery	=	4.54%#	
63) SURR5,2-FLUOROBIPHENYL	6.989	172	26974	4.87	ppm	0.00
Spiked Amount 100.000	Range 31 - 118		Recovery	=	4.87%#	
88) SURR3,2,4,6-TRIBROMOPH...	8.427	330	3158	4.79	ppm	-0.01
Spiked Amount 200.000	Range 35 - 141		Recovery	=	2.40%#	
124) SURR6,TERPHENYL-D14	10.802	244	26020	4.60	ppm	0.00
Spiked Amount 100.000	Range 30 - 133		Recovery	=	4.60%#	
Target Compounds						Qvalue
2) Pyridine	2.747	79	13160	4.74	ppm	93
3) N-Nitrosodimethylamine	2.699	74	7122	4.46	ppm	97
4) 2-Picoline	3.287	93	13037	4.72	ppm	97
5) N-Nitrosomethylamine	3.357	42	7376	5.14	ppm	71
6) Methyl Methansulfonate	3.587	80	6277	4.89	ppm	93
8) N-Nitrosodiethylamine	3.892	102	5126	4.70	ppm	95
9) Ethyl Mathanesulfonate	4.127	79	10635	5.18	ppm	96
10) Benzaldehyde	4.421	106	8538	5.15	ppm	94
11) Aniline	4.501	93	21587	4.88	ppm	93
13) Phenol	4.469	94	14329	4.65	ppm	89
14) bis(2-Clethyl)Ether	4.544	93	11463	4.80	ppm	95
15) Pentachloroethane	4.550	117	4342	5.02	ppm	89
16) 2-Chlorophenol	4.608	128	11598	4.67	ppm	84
17) 1,3-Diclbenzene	4.737	146	13358	4.91	ppm	99
18) 1,4-Dichlorobenzene	4.801	146	14032	4.98	ppm	98
19) 1,2-Diclbenzene	4.935	146	13614	5.05	ppm	97
20) Benzyl Alcohol	4.897	79	7820	4.26	ppm	93
21) 1-Methyl-2-pyrrolidinone	4.919	99	8446	4.56	ppm	95
22) 2,2'-oxybis(1-Chloropr...	5.010	45	16484	4.89	ppm #	76
23) 2-Methylphenol	4.999	108	10846	4.67	ppm	92
24) 3+4-Methylphenol	5.133	108	11614	4.74	ppm	98
25) Acetophenone	5.138	105	18574	4.68	ppm	95
26) N-Nitroso-Di-n-propyla...	5.127	70	10081	4.81	ppm	86
27) N-Nitrosopyrrolidine	5.116	100	6845	4.62	ppm	64
28) N-Nitrosomorpholine	5.154	56	8721	5.33	ppm	95
29) o-Toluidine	5.170	106	19860	4.79	ppm	88
30) Hexachloroethane	5.239	117	5635	5.01	ppm	97
31) o,o,o-Triethylphosphor...	5.673	198	6101	4.92	ppm	90
32) Alpha-terpinol	5.967	121	4622	4.60	ppm	83
35) Nitrobenzene	5.298	77	11122	4.74	ppm	91
36) N-Nitrosopiperidine	5.432	42	8202	5.03	ppm	94
37) Isophorone	5.507	82	23035	4.95	ppm	98
38) 2-Nitrophenol	5.587	139	4467	4.19	ppm	93

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\5973D\Data\072816\
Data File : BH244.D
Acq On : 28 Jul 2016 3:10 pm
Operator : J.Misiurewicz
Sample : 5.0 ppm STD Inst : 5973D
Misc : Initial Calibration 8270D/625
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jul 29 07:46:49 2016
Quant Method : I:\ACQUDATA\5973D\Methods\8270072816.M
Quant Title : 8270 BNA ANALYSIS
QLast Update : Fri Jul 29 07:31:03 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
40) 2,4-Dimethylphenol	5.619	107	12788	5.35	ppm		92
41) bis(-2-Chloroethoxy)Me...	5.705	93	14911	5.05	ppm		97
42) 2,4-Dichlorophenol	5.822	162	9298	4.89	ppm		94
43) a,a-Dimethylphenethyla...	5.817	58	27504	4.19	ppm		88
44) 1,2,4-Trichlorobenzene	5.892	180	10857	4.89	ppm		100
45) Naphthalene	5.967	128	39320	5.30	ppm		96
46) 4-Chloroaniline	6.020	127	15067	4.76	ppm		98
47) 2,6-Dichlorophenol	6.026	162	9608	4.83	ppm		96
48) Hexachlorobutadiene	6.079	225	6253	5.16	ppm		76
49) Hexachloropropene	6.047	213	7096	4.91	ppm		94
50) 4-Chloro-3-methylphenol	6.491	107	9772	4.84	ppm		91
51) N-N-di-n-butylamine	6.331	84	11878	6.10	ppm		97
52) Caprolactam	6.347	113	4308	5.07	ppm		77
53) p-Phenylenediamine	6.368	80	1743	6.05	ppm		82
54) Safrole	6.545	162	8918	4.99	ppm		94
55) 2-Methylnaphthalene	6.630	142	23293	4.93	ppm		90
56) 1-Methylnaphthalene	6.726	142	22089	4.93	ppm		90
58) Hexachlorocyclopentadiene	6.775	237	2247	5.19	ppm		86
59) 1,2,4,5-Tetrachloroben...	6.796	216	10290	4.78	ppm		97
60) 1,2,3,4-Tetrachloroben...	7.069	216	11083	4.85	ppm		99
61) 2,4,6-Trichlorophenol	6.914	196	5690	4.12	ppm		97
62) 2,4,5-Trichlorophenol	6.956	196	6244m	4.49	ppm		
64) Isosafrole	7.047	104	5093	5.03	ppm		88
65) 1,1'-Biphenyl	7.085	154	32494	5.04	ppm		95
66) 2-Chloronaphthalene	7.106	162	24442	5.00	ppm		93
67) 2-Nitroaniline	7.208	65	5075	3.98	ppm		96
68) 1,4-Naphthoquinone	7.283	158	4137	4.25	ppm		86
69) m-Dinitrobenzene	7.416	168	1693	4.84	ppm	#	75
70) Acenaphthylene	7.513	152	36493	4.87	ppm		99
71) Dimethyl phthalate	7.379	163	24783	4.91	ppm		99
72) 2,6-Dinitrotoluene	7.443	165	3146	3.16	ppm		94
73) Acenaphthene	7.684	153	23601	4.77	ppm		98
74) 3-Nitroaniline	7.614	138	4784	3.63	ppm		90
75) 2,4-Dinitrophenol	7.727	184	406	5.01	ppm		99
76) Dibenzofuran	7.850	168	32425	4.88	ppm		94
77) 2,4-Dinitrotoluene	7.844	165	3680	5.18	ppm		90
78) 4-Nitrophenol	7.812	65	1770	2.28	ppm		89
79) Pentachlorobenzene	7.812	250	9331	4.99	ppm		95
80) 1-Napthylamine	7.930	143	25416	5.16	ppm		99
81) 2-Napthylamine	8.010	143	26269	5.04	ppm		94
82) 2,3,4,6-Tetrachlorophenol	7.978	232	3672	3.77	ppm		90
83) Fluorene	8.192	166	27237	4.98	ppm		91
84) 4-Chlorophenyl-phenyle...	8.187	204	12000	4.82	ppm		94
85) Diethylphthalate	8.069	149	28417	5.39	ppm		95
86) 4-Nitroaniline	8.213	138	4247	2.98	ppm	#	76
87) 5-Nitro-o-toluidine	8.203	152	5610	3.84	ppm		92
89) Sulfotepp	8.454	322	2841	4.14	ppm		88
90) Octachlorocyclopentene	8.438	307	2738	3.83	ppm		96
92) Thionazin	8.149	107	5774	5.59	ppm		73
93) 4,6-Dinitro-2-methylph...	8.240	198	1174	5.08	ppm	#	59
94) Diphenylamine	8.304	169	50050	10.53	ppm		97
95) 1,2 Diphenylhydrazine	8.342	77	30522	4.98	ppm		98
96) N-Nitrosodiphenylamine	8.304	169	50050	10.53	ppm		97
97) 1,3,5-Trinirobenzene	8.582	213	878	5.39	ppm	#	1
98) Diallate	8.582	86	11892	5.09	ppm		77
99) Phorate	8.593	121	5196	4.53	ppm		93

1st DM 07/29/16
2nd MWC 07/29/16

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\5973D\Data\072816\
Data File : BH244.D
Acq On : 28 Jul 2016 3:10 pm
Operator : J.Misiurewicz
Sample : 5.0 ppm STD Inst : 5973D
Misc : Initial Calibration 8270D/625
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jul 29 07:46:49 2016
Quant Method : I:\ACQUDATA\5973D\Methods\8270072816.M
Quant Title : 8270 BNA ANALYSIS
QLast Update : Fri Jul 29 07:31:03 2016
Response via : Initial Calibration

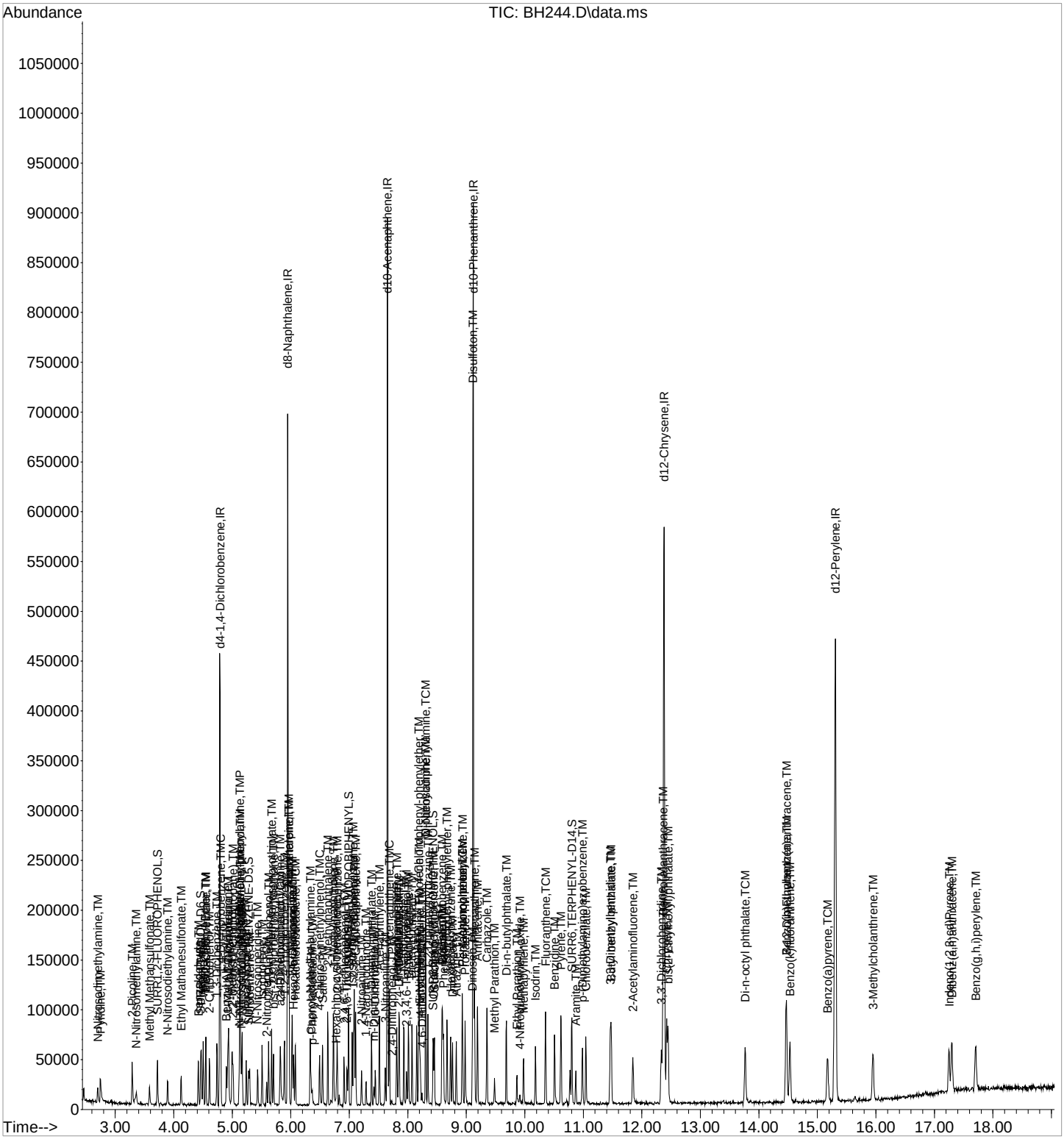
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
100) Phenacetin	8.609	108	15838	5.16 ppm	91
101) 4-Bromophenyl-phenylether	8.668	248	7709	5.36 ppm	89
102) Hexachlorobenzene	8.732	284	8743	5.36 ppm	87
103) Dimethoate	8.764	87	11170	5.53 ppm	99
104) Atrazine	8.828	215	3415	5.10 ppm	92
105) Pentachlorophenol	8.935	266	1618	2.37 ppm	89
106) 4-Aminobiphenyl	8.930	169	25178	4.44 ppm	97
107) Pentachloronitrobenzene	8.935	237	1893	3.35 ppm	90
108) Pronamide	8.978	173	11685	4.46 ppm	91
109) Dinoseb	9.101	211	1215	1.57 ppm	91
110) Disulfoton	9.112	88	15841	5.29 ppm	81
111) Phenanthrene	9.139	178	38620	5.05 ppm	97
112) Anthracene	9.192	178	37712	4.92 ppm	97
113) Carbazole	9.353	167	38001	4.67 ppm	99
114) Di-n-butylphthalate	9.684	149	40876	4.45 ppm	96
115) 4-Nitroquinonline-1-oxide	9.914	190	612	1.62 ppm	86
116) Fluoranthene	10.353	202	36612	4.49 ppm	98
118) Methyl Parathion	9.481	109	3866	2.95 ppm	81
119) Ethyl Parathion	9.866	97	2568	6.22 ppm	67
120) Methapyrilene	9.978	58	13644	6.21 ppm	89
121) Isodrin	10.182	193	3551	4.48 ppm	85
122) Benzidine	10.508	184	27758	4.91 ppm	99
123) Pyrene	10.615	202	40475	4.66 ppm	98
125) Aramite	10.872	185	5612m	9.36 ppm	
126) p-(Dimethylamino)azobe...	10.984	120	12637	4.84 ppm	87
127) Chlorobenzilate	11.043	139	13605	4.60 ppm	88
128) Butyl benzyl phthalate	11.476	149	21939	5.00 ppm	93
129) 3,3-Dimethylbenzidine	11.460	212	27374	4.86 ppm	95
130) 2-Acetylaminofluorene	11.845	181	15431	4.13 ppm	95
131) 3,3'-Dichlorobenzidine	12.332	252	14181	4.61 ppm	93
132) Benzo(a)anthracene	12.359	228	36904	4.71 ppm	96
133) Chrysene	12.423	228	37750	5.04 ppm	95
134) bis(2-Ethylhexyl)phtha...	12.449	149	29548	4.72 ppm	98
136) Di-n-octyl phthalate	13.765	149	47794	4.34 ppm	96
137) 7,12-Dimethylbenz(a)an...	14.471	256	17427	4.31 ppm	89
138) Benzo(b)Fluoranthene	14.471	252	35037	4.34 ppm	95
139) Benzo(k)fluoranthene	14.530	252	34316	4.56 ppm	94
140) Benzo(a)pyrene	15.172	252	31236	4.50 ppm	94
141) 3-Methylcholanthrene	15.953	268	16757	4.10 ppm	98
142) Indeno(1,2,3-cd)Pyrene	17.253	276	24840	4.53 ppm	84
143) Dibenz(a,h)anthracene	17.301	278	28322	4.52 ppm	99
144) Benzo(g,h,i)perylene	17.707	276	28071	5.11 ppm	95

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

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\5973D\Data\072816\
Data File : BH244.D
Acq On : 28 Jul 2016 3:10 pm
Operator : J.Misiurewicz
Sample : 5.0 ppm STD Inst : 5973D
Misc : Initial Calibration 8270D/625
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jul 29 07:46:49 2016
Quant Method : I:\ACQUDATA\5973D\Methods\8270072816.M
Quant Title : 8270 BNA ANALYSIS
QLast Update : Fri Jul 29 07:31:03 2016
Response via : Initial Calibration

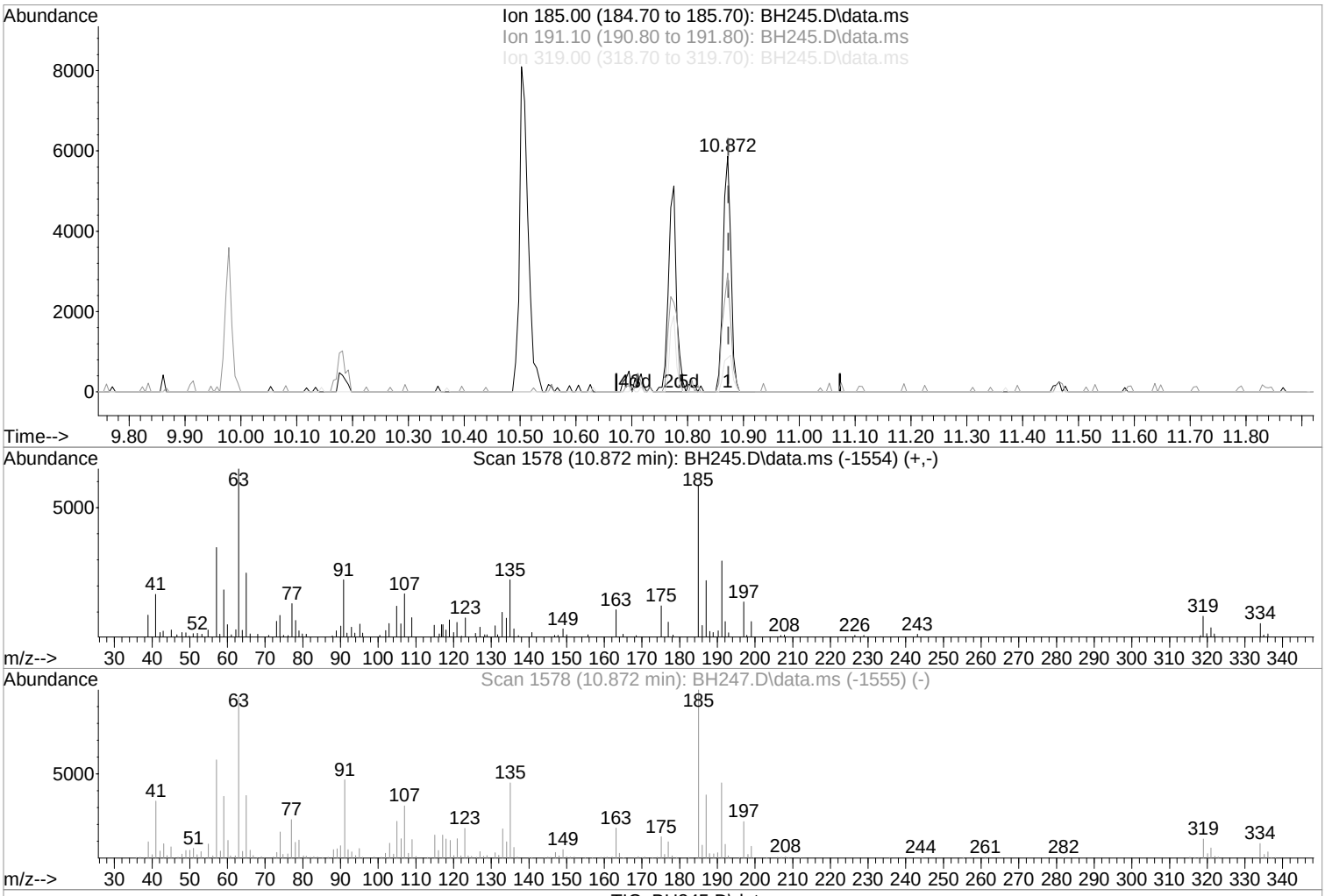


1st DM 07/29/16
2nd MW 07/29/16

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\5973D\Data\072816\
Data File : BH245.D
Acq On : 28 Jul 2016 3:38 pm
Operator : J.Misiurewicz
Sample : 10 ppm STD Inst : 5973D
Misc : Initial Calibration 8270D/625
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jul 29 08:14:49 2016
Quant Method : I:\ACQUDATA\5973D\Methods\8270072816.M
Quant Title : 8270 BNA ANALYSIS
QLast Update : Fri Jul 29 08:02:19 2016
Response via : Initial Calibration



TIC: BH245.D\data.ms

(125) Aramite (TM)

10.872min (-0.001) 9.05 ppm m

response 11079

Ion	Exp%	Act%
185.00	100	100
191.10	44.70	50.34
319.00	11.30	14.45
0.00	0.00	0.00

Manual Integration:

After

Split Peak

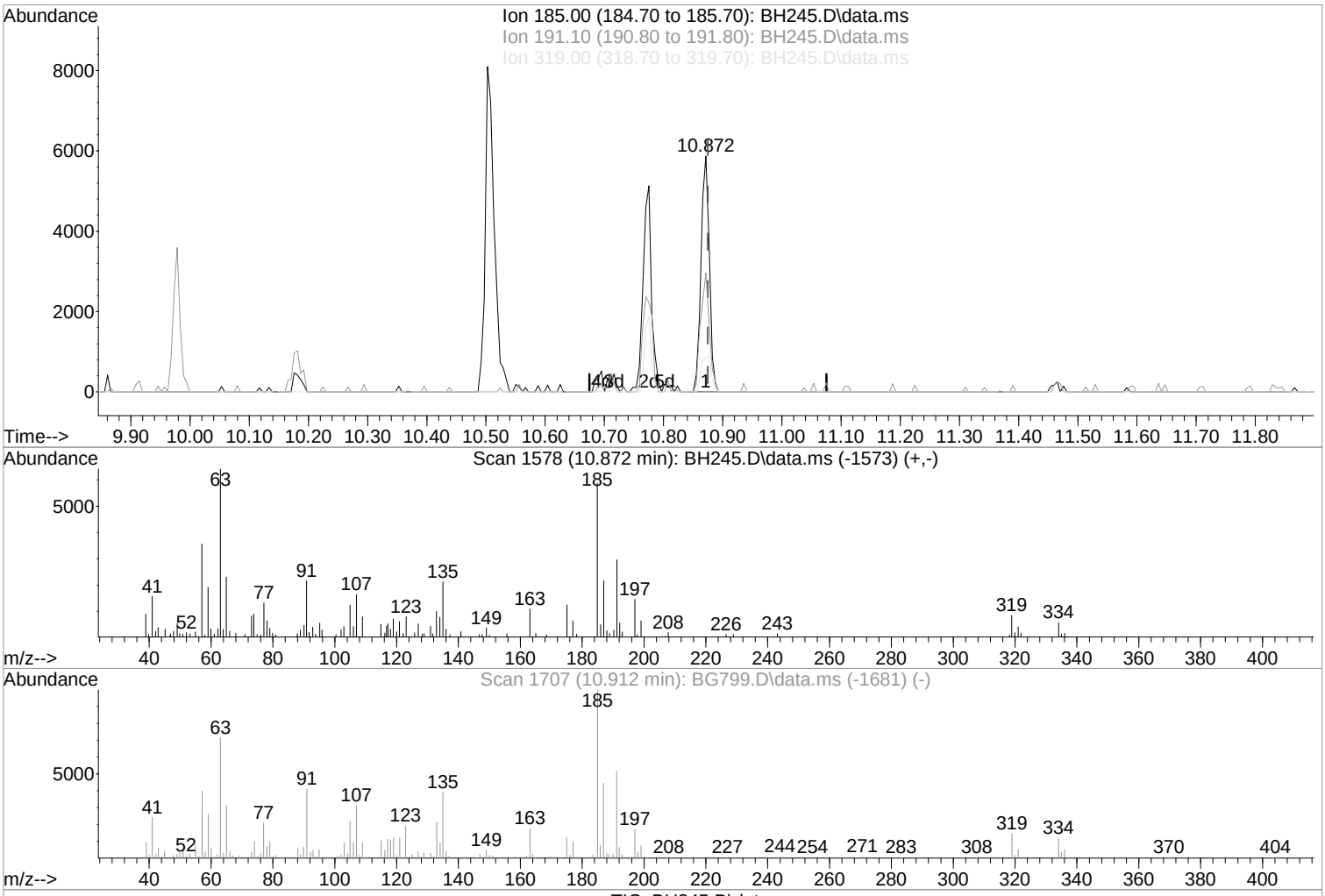
07/29/16

1st DM 07/29/16
2nd MW 07/29/16

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\5973D\Data\072816\
Data File : BH245.D
Acq On : 28 Jul 2016 3:38 pm
Operator : J.Misiurewicz
Sample : 10 ppm STD Inst : 5973D
Misc : Initial Calibration 8270D/625
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jul 29 07:41:16 2016
Quant Method : I:\ACQUDATA\5973D\Methods\8270072816.M
Quant Title : 8270 BNA ANALYSIS
QLast Update : Fri Jul 29 07:31:03 2016
Response via : Initial Calibration



(125) Aramite (TM)

10.872min (-0.004) 8.73 ppm

response 5728

Ion	Exp%	Act%
185.00	100	100
191.10	48.70	50.34
319.00	15.90	14.45
0.00	0.00	0.00

Manual Integration:

Before

07/29/16

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\5973D\Data\072816\
Data File : BH245.D
Acq On : 28 Jul 2016 3:38 pm
Operator : J.Misiurewicz
Sample : 10 ppm STD Inst : 5973D
Misc : Initial Calibration 8270D/625
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jul 29 08:15:23 2016
Quant Method : I:\ACQUDATA\5973D\Methods\8270072816.M
Quant Title : 8270 BNA ANALYSIS
QLast Update : Fri Jul 29 08:02:19 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) d4-1,4-Dichlorobenzene	4.790	152	71017	40.00	ppm	0.00
33) d8-Naphthalene	5.945	136	315227	40.00	ppm	0.00
57) d10-Acenaphthene	7.652	164	179977	40.00	ppm	0.00
91) d10-Phenanthrene	9.117	188	280175	40.00	ppm	0.00
117) d12-Chrysene	12.380	240	301202	40.00	ppm	0.00
135) d12-Perylene	15.306	264	276699	40.00	ppm	0.00
System Monitoring Compounds						
7) SURR1,2-FLUOROPHENOL	3.720	112	26421	9.90	ppm	0.00
Spiked Amount 200.000	Range 10 - 105		Recovery	=	4.95%#	
12) SURR2,PHENOL-D6	4.458	99	30330	9.80	ppm	0.00
Spiked Amount 200.000	Range 10 - 107		Recovery	=	4.90%#	
34) SURR4,NITROBENZENE-D5	5.277	82	23726	9.53	ppm	0.00
Spiked Amount 100.000	Range 31 - 110		Recovery	=	9.53%#	
63) SURR5,2-FLUOROBIPHENYL	6.988	172	58790	10.20	ppm	0.00
Spiked Amount 100.000	Range 31 - 118		Recovery	=	10.20%#	
88) SURR3,2,4,6-TRIBROMOPH...	8.433	330	6413	9.35	ppm	0.00
Spiked Amount 200.000	Range 35 - 141		Recovery	=	4.67%#	
124) SURR6,TERPHENYL-D14	10.802	244	62342	10.07	ppm	0.00
Spiked Amount 100.000	Range 30 - 133		Recovery	=	10.07%#	
Target Compounds						Qvalue
2) Pyridine	2.736	79	28021	9.94	ppm	95
3) N-Nitrosodimethylamine	2.699	74	17386	10.71	ppm	86
4) 2-Picoline	3.287	93	30075	10.71	ppm	97
5) N-Nitrosomethylamine	3.357	42	15394	11.03	ppm	83
6) Methyl Methansulfonate	3.581	80	13890	10.65	ppm	92
8) N-Nitrosodiethylamine	3.892	102	11229	10.13	ppm	91
9) Ethyl Mathanesulfonate	4.127	79	21431	10.27	ppm	99
10) Benzaldehyde	4.416	106	18173	10.78	ppm	95
11) Aniline	4.501	93	44295	9.86	ppm	96
13) Phenol	4.469	94	31864	10.17	ppm	99
14) bis(2-Clethyl)Ether	4.544	93	23940	9.88	ppm	96
15) Pentachloroethane	4.549	117	8768	9.98	ppm	93
16) 2-Chlorophenol	4.608	128	26184	10.37	ppm	93
17) 1,3-Diclbenzene	4.737	146	27614	10.00	ppm	92
18) 1,4-Dichlorobenzene	4.801	146	27720	9.68	ppm	97
19) 1,2-Diclbenzene	4.935	146	27738	10.13	ppm	96
20) Benzyl Alcohol	4.897	79	18666	10.01	ppm	92
21) 1-Methyl-2-pyrrolidinone	4.918	99	19405	10.30	ppm	95
22) 2,2'-oxybis(1-Chloropr...	5.015	45	36138	10.55	ppm #	78
23) 2-Methylphenol	4.993	108	23128	9.79	ppm	83
24) 3+4-Methylphenol	5.132	108	24903	10.01	ppm	86
25) Acetophenone	5.138	105	41696	10.33	ppm	94
26) N-Nitroso-Di-n-propyla...	5.127	70	22092	10.37	ppm	90
27) N-Nitrosopyrrolidine	5.116	100	15244	10.13	ppm	72
28) N-Nitrosomorpholine	5.148	56	16488	9.91	ppm	90
29) o-Toluidine	5.170	106	43542	10.34	ppm	94
30) Hexachloroethane	5.239	117	12251	10.72	ppm	92
31) o,o,o-Triethylphosphor...	5.673	198	12483	9.91	ppm	87
32) Alpha-terpinol	5.967	121	10277	10.06	ppm	81
35) Nitrobenzene	5.298	77	25094	10.17	ppm	94
36) N-Nitrosopiperidine	5.432	42	17980	10.49	ppm	87
37) Isophorone	5.507	82	51188	10.47	ppm	98
38) 2-Nitrophenol	5.587	139	9773	8.44	ppm	89

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\5973D\Data\072816\
Data File : BH245.D
Acq On : 28 Jul 2016 3:38 pm
Operator : J.Misiurewicz
Sample : 10 ppm STD Inst : 5973D
Misc : Initial Calibration 8270D/625
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jul 29 08:15:23 2016
Quant Method : I:\ACQUDATA\5973D\Methods\8270072816.M
Quant Title : 8270 BNA ANALYSIS
QLast Update : Fri Jul 29 08:02:19 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
40) 2,4-Dimethylphenol	5.619	107	24579	9.79	ppm		96
41) bis(-2-Chloroethoxy)Me...	5.705	93	32331	10.41	ppm		93
42) 2,4-Dichlorophenol	5.817	162	19319	9.67	ppm		93
43) a,a-Dimethylphenethyla...	5.833	58	66525	9.64	ppm		97
44) 1,2,4-Trichlorobenzene	5.892	180	23214	9.94	ppm		100
45) Naphthalene	5.967	128	80129	10.27	ppm		98
46) 4-Chloroaniline	6.020	127	34969	10.51	ppm		99
47) 2,6-Dichlorophenol	6.026	162	21122	10.11	ppm		88
48) Hexachlorobutadiene	6.079	225	13220	10.38	ppm		88
49) Hexachloropropene	6.047	213	14817	9.76	ppm		99
50) 4-Chloro-3-methylphenol	6.491	107	20817	9.82	ppm		97
51) N-N-di-n-butylamine	6.331	84	24850	12.14	ppm		97
52) Caprolactam	6.341	113	9415	10.54	ppm		90
53) p-Phenylenediamine	6.363	80	3592	12.76	ppm		96
54) Safrole	6.544	162	19505	10.39	ppm		95
55) 2-Methylnaphthalene	6.630	142	50233	10.11	ppm		96
56) 1-Methylnaphthalene	6.726	142	47502	10.09	ppm		95
58) Hexachlorocyclopentadiene	6.780	237	5695	9.17	ppm		100
59) 1,2,4,5-Tetrachloroben...	6.796	216	22103	9.87	ppm		98
60) 1,2,3,4-Tetrachloroben...	7.069	216	24220	10.18	ppm		95
61) 2,4,6-Trichlorophenol	6.908	196	13998	9.95	ppm		97
62) 2,4,5-Trichlorophenol	6.956	196	13060	8.94	ppm		94
64) Isosafrole	7.047	104	10423	9.91	ppm		96
65) 1,1'-Biphenyl	7.085	154	68375	10.21	ppm		97
66) 2-Chloronaphthalene	7.106	162	52002	10.22	ppm		99
67) 2-Nitroaniline	7.208	65	10916	8.44	ppm		85
68) 1,4-Naphthoquinone	7.283	158	11768	11.83	ppm		92
69) m-Dinitrobenzene	7.422	168	5074	10.73	ppm		80
70) Acenaphthylene	7.513	152	80604	10.35	ppm		97
71) Dimethyl phthalate	7.379	163	54708	10.42	ppm		99
72) 2,6-Dinitrotoluene	7.443	165	9362	9.04	ppm		93
73) Acenaphthene	7.684	153	51981	10.11	ppm		97
74) 3-Nitroaniline	7.614	138	12082	8.81	ppm		97
75) 2,4-Dinitrophenol	7.727	184	1570	10.01	ppm		69
76) Dibenzofuran	7.855	168	70358	10.17	ppm		98
77) 2,4-Dinitrotoluene	7.839	165	8376	9.23	ppm		95
78) 4-Nitrophenol	7.812	65	5479	6.79	ppm		89
79) Pentachlorobenzene	7.812	250	19066	9.80	ppm		96
80) 1-Napthylamine	7.930	143	56549	11.05	ppm		99
81) 2-Napthylamine	8.010	143	57440	10.59	ppm		95
82) 2,3,4,6-Tetrachlorophenol	7.978	232	9193	9.07	ppm		94
83) Fluorene	8.192	166	58362	10.27	ppm		98
84) 4-Chlorophenyl-phenyle...	8.187	204	28076	10.86	ppm		94
85) Diethylphthalate	8.069	149	55150	10.05	ppm		98
86) 4-Nitroaniline	8.213	138	13631	9.21	ppm		96
87) 5-Nitro-o-toluidine	8.203	152	11199	7.38	ppm		97
89) Sulfotepp	8.454	322	6235	8.74	ppm		96
90) Octachlorocyclopentene	8.438	307	6265	8.43	ppm		89
92) Thionazin	8.154	107	10669	10.66	ppm		94
93) 4,6-Dinitro-2-methylph...	8.245	198	3225	10.03	ppm		83
94) Diphenylamine	8.304	169	101012	21.95	ppm		98
95) 1,2 Diphenylhydrazine	8.342	77	67778	11.42	ppm		98
96) N-Nitrosodiphenylamine	8.304	169	101012	21.95	ppm		98
97) 1,3,5-Trinirobenzene	8.582	213	1352	8.37	ppm	#	1
98) Diallate	8.582	86	25239	11.15	ppm		97
99) Phorate	8.593	121	12104	10.90	ppm	#	68

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\5973D\Data\072816\
Data File : BH245.D
Acq On : 28 Jul 2016 3:38 pm
Operator : J.Misiurewicz
Sample : 10 ppm STD Inst : 5973D
Misc : Initial Calibration 8270D/625
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jul 29 08:15:23 2016
Quant Method : I:\ACQUDATA\5973D\Methods\8270072816.M
Quant Title : 8270 BNA ANALYSIS
QLast Update : Fri Jul 29 08:02:19 2016
Response via : Initial Calibration

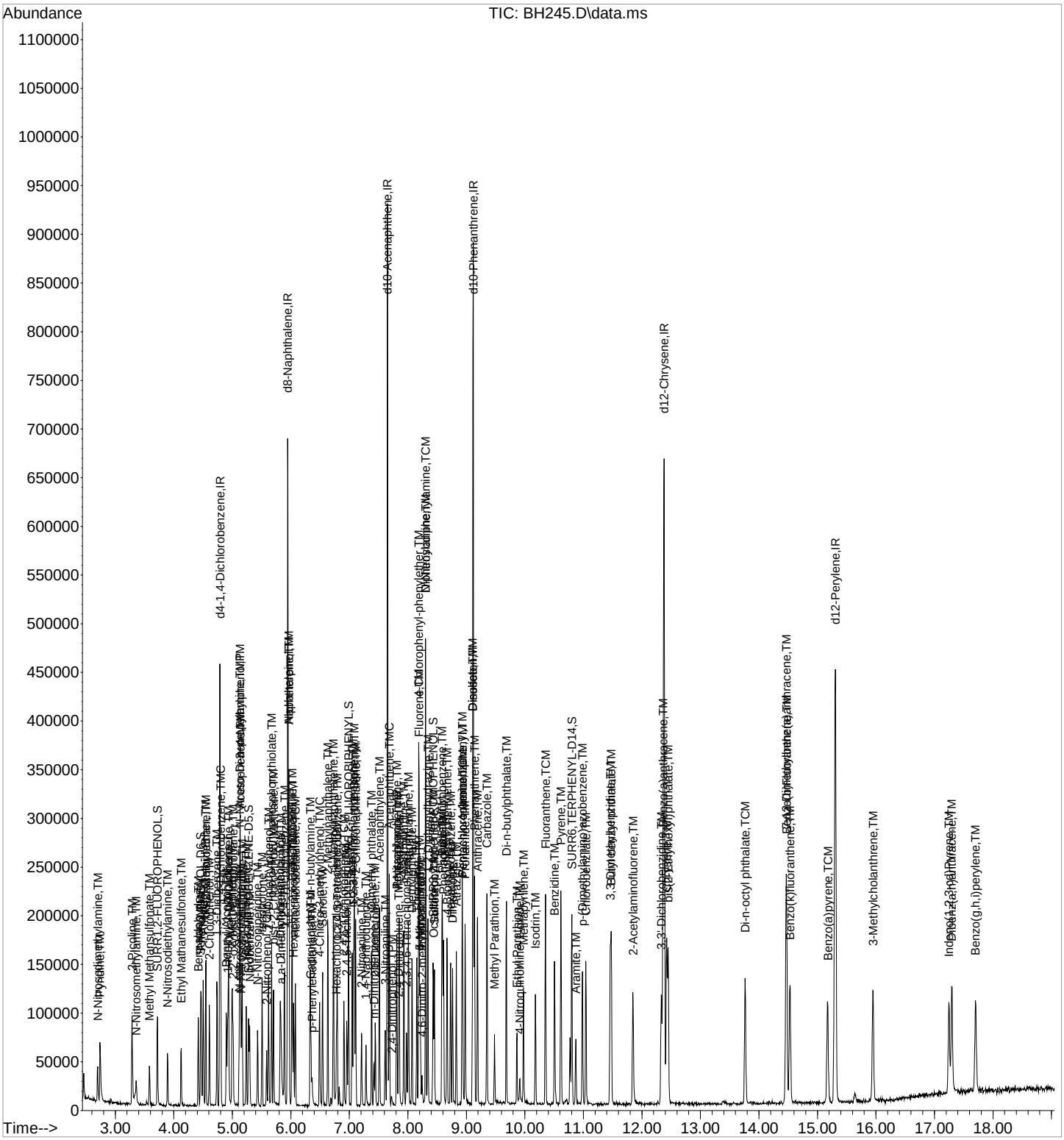
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
100) Phenacetin	8.609	108	32434	10.91 ppm	97
101) 4-Bromophenyl-phenylether	8.673	248	15511	11.14 ppm	91
102) Hexachlorobenzene	8.732	284	17784	11.25 ppm	98
103) Dimethoate	8.764	87	24470	12.50 ppm	93
104) Atrazine	8.828	215	7019	10.82 ppm	91
105) Pentachlorophenol	8.935	266	4173	6.32 ppm	88
106) 4-Aminobiphenyl	8.930	169	55624	10.12 ppm	99
107) Pentachloronitrobenzene	8.935	237	4803	8.77 ppm	93
108) Pronamide	8.978	173	27746	10.93 ppm	97
109) Dinoseb	9.106	211	4139	5.54 ppm	83
110) Disulfoton	9.106	88	27795	9.59 ppm	97
111) Phenanthrene	9.139	178	75155	10.14 ppm	99
112) Anthracene	9.192	178	72975	9.82 ppm	99
113) Carbazole	9.353	167	83936	10.65 ppm	99
114) Di-n-butylphthalate	9.684	149	95218	10.71 ppm	98
115) 4-Nitroquinonline-1-oxide	9.909	190	1421	3.88 ppm	70
116) Fluoranthene	10.353	202	86111	10.90 ppm	98
118) Methyl Parathion	9.481	109	10048	7.02 ppm	90
119) Ethyl Parathion	9.866	97	7023	9.33 ppm	99
120) Methapyrilene	9.978	58	29888	12.43 ppm	99
121) Isodrin	10.182	193	7295	8.42 ppm	95
122) Benzidine	10.508	184	62378	10.07 ppm	97
123) Pyrene	10.615	202	93622	9.85 ppm	99
125) Aramite	10.872	185	11079m	9.05 ppm	
126) p-(Dimethylamino)azobe...	10.984	120	26492	9.27 ppm	94
127) Chlorobenzilate	11.043	139	30524	9.44 ppm	100
128) Butyl benzyl phthalate	11.476	149	46433	9.67 ppm	98
129) 3,3-Dimethylbenzidine	11.460	212	59917	9.72 ppm	96
130) 2-Acetylaminofluorene	11.850	181	37355	9.14 ppm	94
131) 3,3'-Dichlorobenzidine	12.332	252	31494	9.35 ppm	97
132) Benzo(a)anthracene	12.358	228	84733	9.89 ppm	97
133) Chrysene	12.423	228	82276	10.04 ppm	99
134) bis(2-Ethylhexyl)phtha...	12.449	149	65464	9.56 ppm	99
136) Di-n-octyl phthalate	13.765	149	102103	9.40 ppm	99
137) 7,12-Dimethylbenz(a)an...	14.466	256	39424	9.87 ppm	93
138) Benzo(b)Fluoranthene	14.471	252	79632	9.98 ppm	96
139) Benzo(k)fluoranthene	14.530	252	76560	10.31 ppm	94
140) Benzo(a)pyrene	15.177	252	66886	9.76 ppm	91
141) 3-Methylcholanthrene	15.953	268	39389	9.77 ppm	93
142) Indeno(1,2,3-cd)Pyrene	17.247	276	54181	10.01 ppm	87
143) Dibenz(a,h)anthracene	17.295	278	60478	9.78 ppm	96
144) Benzo(g,h,i)perylene	17.702	276	61260	11.29 ppm	92

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

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\5973D\Data\072816\
Data File : BH245.D
Acq On : 28 Jul 2016 3:38 pm
Operator : J.Misiurewicz
Sample : 10 ppm STD Inst : 5973D
Misc : Initial Calibration 8270D/625
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jul 29 08:15:23 2016
Quant Method : I:\ACQUDATA\5973D\Methods\8270072816.M
Quant Title : 8270 BNA ANALYSIS
QLast Update : Fri Jul 29 08:02:19 2016
Response via : Initial Calibration

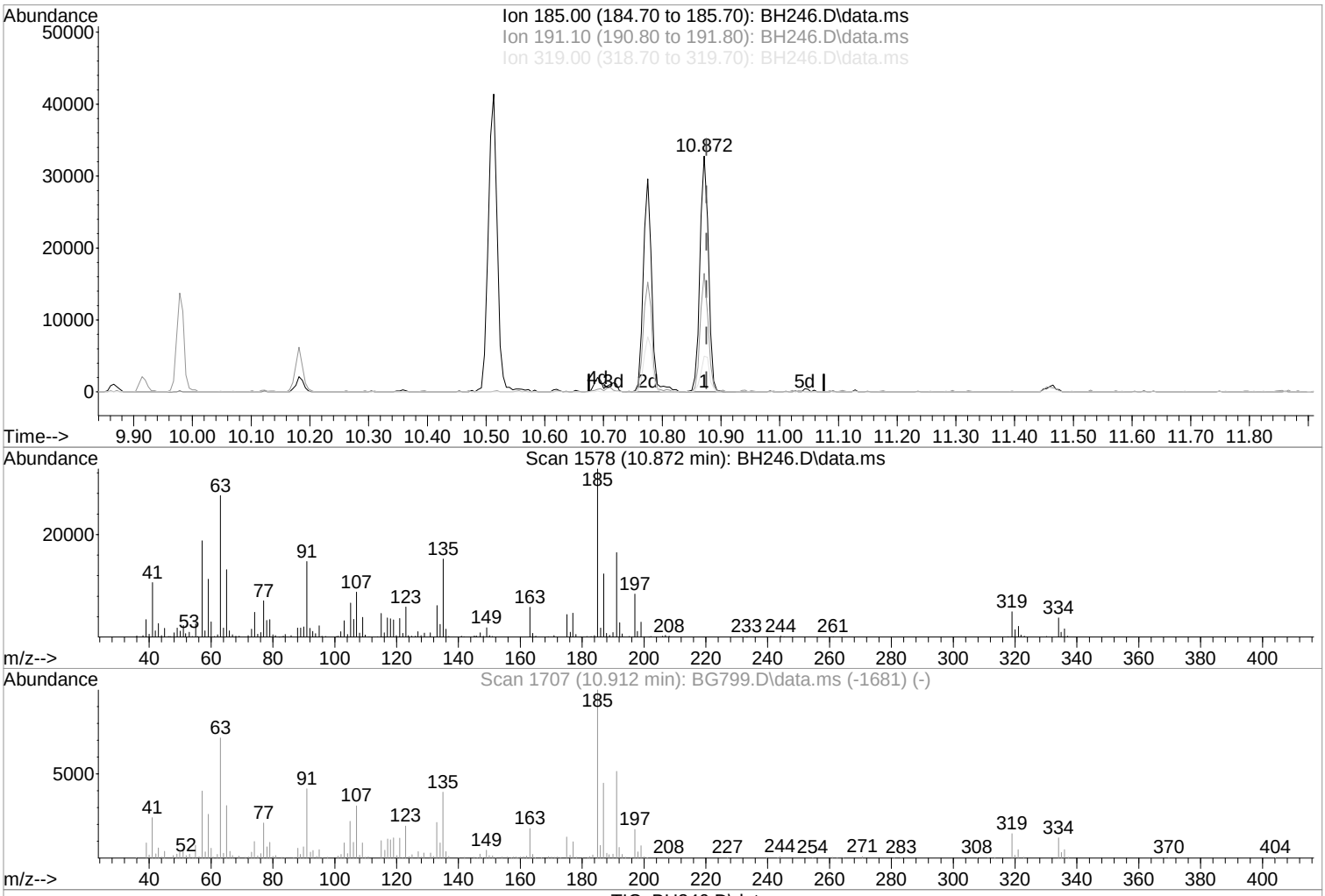


1st DM 07/29/16
2nd MW 07/29/16

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\5973D\Data\072816\
Data File : BH246.D
Acq On : 28 Jul 2016 4:05 pm
Operator : J.Misiurewicz
Sample : 50 ppm STD Inst : 5973D
Misc : Initial Calibration 8270D/625
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jul 29 07:41:21 2016
Quant Method : I:\ACQUDATA\5973D\Methods\8270072816.M
Quant Title : 8270 BNA ANALYSIS
QLast Update : Fri Jul 29 07:31:03 2016
Response via : Initial Calibration



(125) Aramite (TM)

10.872min (-0.004) 94.25 ppm m

response 62185

Ion	Exp%	Act%
185.00	100	100
191.10	48.70	50.29
319.00	15.90	15.20
0.00	0.00	0.00

Manual Integration:

After

Split Peak

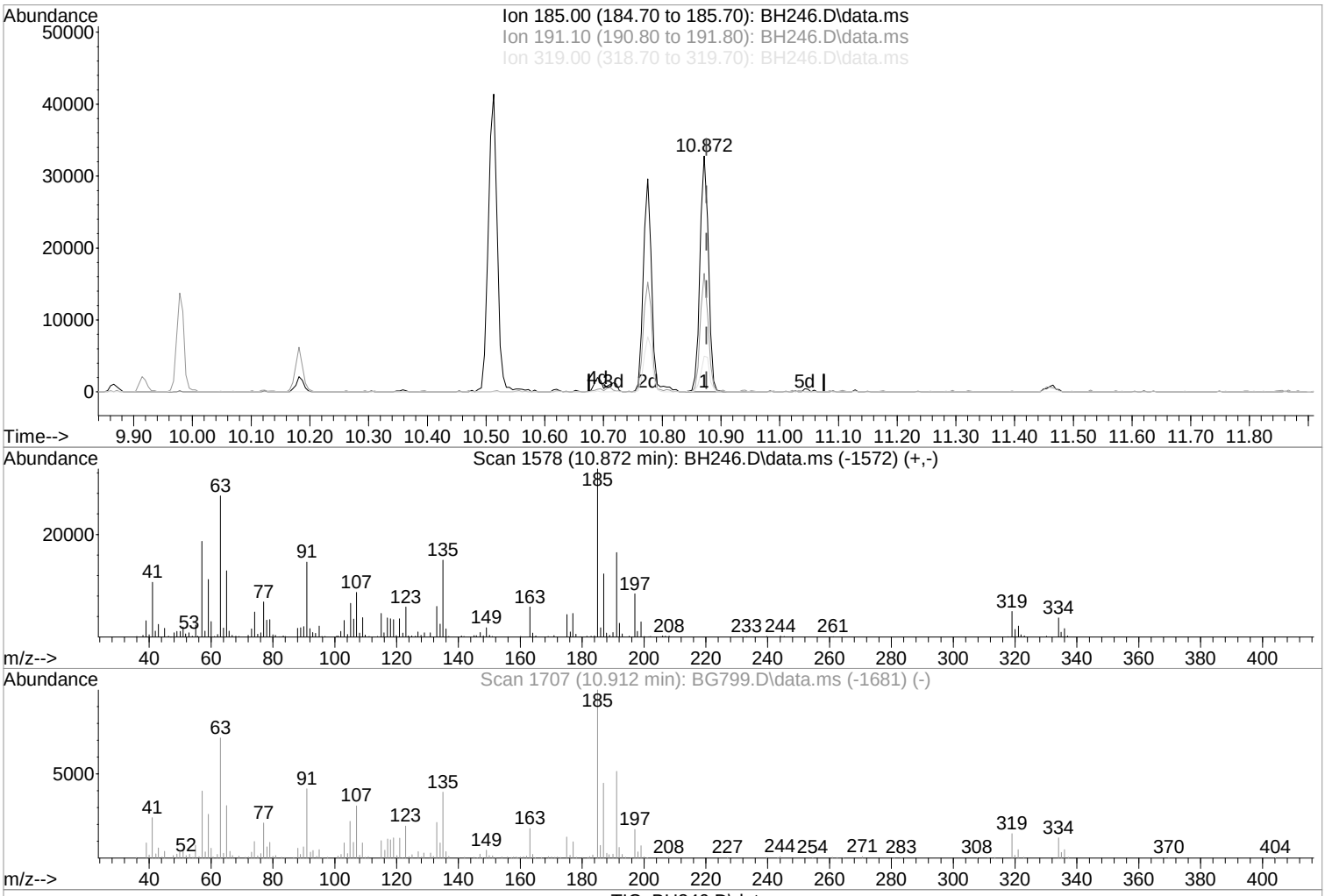
07/29/16

1st DM 07/29/16
2nd MW 07/29/16

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\5973D\Data\072816\
Data File : BH246.D
Acq On : 28 Jul 2016 4:05 pm
Operator : J.Misiurewicz
Sample : 50 ppm STD Inst : 5973D
Misc : Initial Calibration 8270D/625
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jul 29 07:41:21 2016
Quant Method : I:\ACQUDATA\5973D\Methods\8270072816.M
Quant Title : 8270 BNA ANALYSIS
QLast Update : Fri Jul 29 07:31:03 2016
Response via : Initial Calibration



(125) Aramite (TM)

10.872min (-0.004) 49.54 ppm

response 32685

Ion	Exp%	Act%
185.00	100	100
191.10	48.70	50.29
319.00	15.90	15.20
0.00	0.00	0.00

Manual Integration:

Before

07/29/16

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\5973D\Data\072816\
Data File : BH246.D
Acq On : 28 Jul 2016 4:05 pm
Operator : J.Misiurewicz
Sample : 50 ppm STD Inst : 5973D
Misc : Initial Calibration 8270D/625
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jul 29 07:49:52 2016
Quant Method : I:\ACQUDATA\5973D\Methods\8270072816.M
Quant Title : 8270 BNA ANALYSIS
QLast Update : Fri Jul 29 07:31:03 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) d4-1,4-Dichlorobenzene	4.790	152	73675	40.00	ppm	0.00
33) d8-Naphthalene	5.951	136	337183	40.00	ppm	0.00
57) d10-Acenaphthene	7.652	164	189485	40.00	ppm	0.00
91) d10-Phenanthrene	9.117	188	310466	40.00	ppm	0.00
117) d12-Chrysene	12.385	240	302740	40.00	ppm	0.00
135) d12-Perylene	15.311	264	286072	40.00	ppm	0.00
System Monitoring Compounds						
7) SURR1,2-FLUOROPHENOL	3.720	112	137115	49.54	ppm	0.00
Spiked Amount 200.000	Range 10 - 105		Recovery = 24.77%			
12) SURR2,PHENOL-D6	4.458	99	163886	51.02	ppm	0.00
Spiked Amount 200.000	Range 10 - 107		Recovery = 25.51%			
34) SURR4,NITROBENZENE-D5	5.282	82	133663	50.17	ppm	0.00
Spiked Amount 100.000	Range 31 - 110		Recovery = 50.17%			
63) SURR5,2-FLUOROBIPHENYL	6.988	172	297613	49.05	ppm	0.00
Spiked Amount 100.000	Range 31 - 118		Recovery = 49.05%			
88) SURR3,2,4,6-TRIBROMOPH...	8.433	330	35682	49.40	ppm	0.00
Spiked Amount 200.000	Range 35 - 141		Recovery = 24.70%#			
124) SURR6,TERPHENYL-D14	10.802	244	316772	50.92	ppm	0.00
Spiked Amount 100.000	Range 30 - 133		Recovery = 50.92%			
Target Compounds						Qvalue
2) Pyridine	2.731	79	146239	50.01	ppm	99
3) N-Nitrosodimethylamine	2.693	74	87326	51.84	ppm	96
4) 2-Picoline	3.282	93	146905	50.44	ppm	99
5) N-Nitrosomethylamine	3.357	42	72402	47.86	ppm	95
6) Methyl Methansulfonate	3.587	80	68174	50.41	ppm	97
8) N-Nitrosodiethylamine	3.892	102	59082	51.39	ppm	94
9) Ethyl Mathanesulfonate	4.127	79	107566	49.67	ppm	98
10) Benzaldehyde	4.421	106	88306	50.50	ppm	99
11) Aniline	4.501	93	233280	50.04	ppm	93
13) Phenol	4.469	94	160352	49.35	ppm	87
14) bis(2-Clethyl)Ether	4.549	93	127130	50.55	ppm	98
15) Pentachloroethane	4.549	117	45257	49.65	ppm	93
16) 2-Chlorophenol	4.608	128	133629	51.00	ppm	94
17) 1,3-Diclbenzene	4.737	146	145860	50.92	ppm	97
18) 1,4-Dichlorobenzene	4.801	146	148666	50.04	ppm	95
19) 1,2-Diclbenzene	4.935	146	140978	49.64	ppm	97
20) Benzyl Alcohol	4.897	79	98483	50.88	ppm	98
21) 1-Methyl-2-pyrrolidinone	4.935	99	99201	50.78	ppm	93
22) 2,2'-oxybis(1-Chloropr...	5.015	45	177384	49.93	ppm #	82
23) 2-Methylphenol	5.004	108	122839	50.14	ppm	95
24) 3+4-Methylphenol	5.138	108	129282	50.09	ppm	95
25) Acetophenone	5.138	105	210230	50.22	ppm	99
26) N-Nitroso-Di-n-propyla...	5.132	70	109741	49.66	ppm	96
27) N-Nitrosopyrrolidine	5.127	100	80451	51.52	ppm	86
28) N-Nitrosomorpholine	5.159	56	84758	49.12	ppm	96
29) o-Toluidine	5.170	106	218458	50.00	ppm	94
30) Hexachloroethane	5.239	117	58834	49.63	ppm	97
31) o,o,o-Triethylphosphor...	5.678	198	63298	48.43	ppm	93
32) Alpha-terpinol	5.972	121	54044	50.99	ppm	98
35) Nitrobenzene	5.298	77	127327	48.26	ppm	92
36) N-Nitrosopiperidine	5.437	42	89639	48.90	ppm	93
37) Isophorone	5.512	82	255647	48.90	ppm	99
38) 2-Nitrophenol	5.587	139	59625	49.73	ppm	91

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\5973D\Data\072816\
Data File : BH246.D
Acq On : 28 Jul 2016 4:05 pm
Operator : J.Misiurewicz
Sample : 50 ppm STD Inst : 5973D
Misc : Initial Calibration 8270D/625
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jul 29 07:49:52 2016
Quant Method : I:\ACQUDATA\5973D\Methods\8270072816.M
Quant Title : 8270 BNA ANALYSIS
QLast Update : Fri Jul 29 07:31:03 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
39) Benzoic Acid	5.721	105	47103	42.46	ppm		86
40) 2,4-Dimethylphenol	5.625	107	131883	49.11	ppm		95
41) bis(-2-Chloroethoxy)Me...	5.705	93	164686	49.57	ppm		96
42) 2,4-Dichlorophenol	5.817	162	107840	50.48	ppm		98
43) a,a-Dimethylphenethyla...	5.908	58	370930	50.23	ppm		96
44) 1,2,4-Trichlorobenzene	5.892	180	122456	49.03	ppm		93
45) Naphthalene	5.967	128	398416	47.75	ppm		98
46) 4-Chloroaniline	6.020	127	174878	49.16	ppm		99
47) 2,6-Dichlorophenol	6.026	162	107627	48.17	ppm		95
48) Hexachlorobutadiene	6.079	225	63771	46.79	ppm		97
49) Hexachloropropene	6.047	213	79687	49.08	ppm		98
50) 4-Chloro-3-methylphenol	6.491	107	115155	50.78	ppm		94
51) N-N-di-n-butylamine	6.331	84	101080	46.15	ppm		97
52) Caprolactam	6.363	113	45958	48.09	ppm		94
53) p-Phenylenediamine	6.368	80	16427	50.74	ppm		85
54) Safrole	6.544	162	96602	48.09	ppm		97
55) 2-Methylnaphthalene	6.635	142	258722	48.68	ppm		100
56) 1-Methylnaphthalene	6.732	142	247736	49.17	ppm		100
58) Hexachlorocyclopentadiene	6.780	237	47190	49.97	ppm		97
59) 1,2,4,5-Tetrachloroben...	6.796	216	114555	48.56	ppm		97
60) 1,2,3,4-Tetrachloroben...	7.074	216	123596	49.37	ppm		96
61) 2,4,6-Trichlorophenol	6.908	196	75532	49.93	ppm		98
62) 2,4,5-Trichlorophenol	6.956	196	79288	52.09	ppm		99
64) Isosafrole	7.047	104	53666	48.45	ppm		94
65) 1,1'-Biphenyl	7.085	154	349218	49.51	ppm		97
66) 2-Chloronaphthalene	7.111	162	261461	48.83	ppm		99
67) 2-Nitroaniline	7.213	65	69644	49.93	ppm		92
68) 1,4-Naphthoquinone	7.288	158	58043	54.49	ppm		94
69) m-Dinitrobenzene	7.427	168	30527	46.85	ppm		87
70) Acenaphthylene	7.513	152	407728	49.73	ppm		98
71) Dimethyl phthalate	7.384	163	274858	49.72	ppm		99
72) 2,6-Dinitrotoluene	7.448	165	55669	51.06	ppm		94
73) Acenaphthene	7.684	153	267141	49.34	ppm		98
74) 3-Nitroaniline	7.620	138	68370	47.35	ppm		97
75) 2,4-Dinitrophenol	7.727	184	13690	49.34	ppm		91
76) Dibenzofuran	7.855	168	365714	50.23	ppm		99
77) 2,4-Dinitrotoluene	7.844	165	64129	50.06	ppm		91
78) 4-Nitrophenol	7.807	65	46903	55.23	ppm		87
79) Pentachlorobenzene	7.812	250	101531	49.56	ppm		94
80) 1-Napthylamine	7.935	143	256414	47.58	ppm		98
81) 2-Napthylamine	8.015	143	278484	48.76	ppm		98
82) 2,3,4,6-Tetrachlorophenol	7.978	232	50801	47.61	ppm		93
83) Fluorene	8.192	166	299835	50.10	ppm		97
84) 4-Chlorophenyl-phenyle...	8.187	204	140655	51.66	ppm		93
85) Diethylphthalate	8.074	149	275846	47.76	ppm		98
86) 4-Nitroaniline	8.224	138	78495	50.36	ppm		97
87) 5-Nitro-o-toluidine	8.208	152	79997	50.05	ppm		92
89) Sulfotepp	8.459	322	36217	48.23	ppm		95
90) Octachlorocyclopentene	8.438	307	39017	49.85	ppm		98
92) Thionazin	8.154	107	52272	47.13	ppm		99
93) 4,6-Dinitro-2-methylph...	8.245	198	26745	49.16	ppm		97
94) Diphenylamine	8.310	169	478131	93.75	ppm		99
95) 1,2 Diphenylhydrazine	8.347	77	335680	51.02	ppm		97
96) N-Nitrosodiphenylamine	8.310	169	478131	93.75	ppm		99
97) 1,3,5-Trinirobenzene	8.593	213	12449	51.48	ppm	#	75
98) Diallate	8.582	86	117370	46.79	ppm		98

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\5973D\Data\072816\
Data File : BH246.D
Acq On : 28 Jul 2016 4:05 pm
Operator : J.Misiurewicz
Sample : 50 ppm STD Inst : 5973D
Misc : Initial Calibration 8270D/625
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jul 29 07:49:52 2016
Quant Method : I:\ACQUDATA\5973D\Methods\8270072816.M
Quant Title : 8270 BNA ANALYSIS
QLast Update : Fri Jul 29 07:31:03 2016
Response via : Initial Calibration

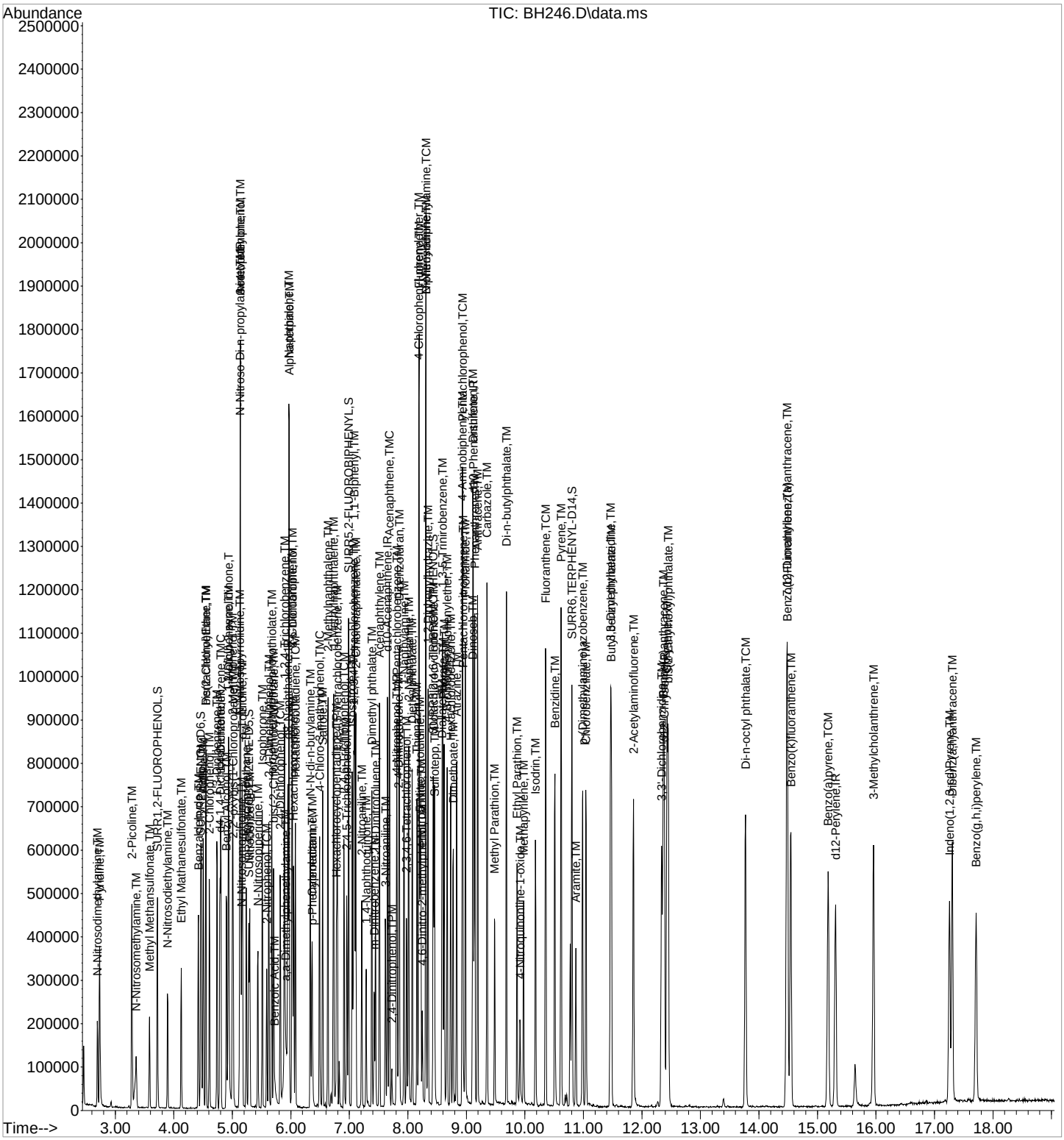
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
99) Phorate	8.598	121	59960	48.74 ppm	87
100) Phenacetin	8.620	108	173174	52.57 ppm	97
101) 4-Bromophenyl-phenylether	8.673	248	72600	47.04 ppm	97
102) Hexachlorobenzene	8.732	284	85466	48.80 ppm	91
103) Dimethoate	8.775	87	119357	55.03 ppm	96
104) Atrazine	8.834	215	37956	52.81 ppm	83
105) Pentachlorophenol	8.935	266	35694	48.75 ppm	94
106) 4-Aminobiphenyl	8.930	169	316479	51.98 ppm	99
107) Pentachloronitrobenzene	8.941	237	31128	51.32 ppm	92
108) Pronamide	8.983	173	151051	53.68 ppm	99
109) Dinoseb	9.106	211	32389	39.10 ppm	99
110) Disulfoton	9.112	88	147418	45.90 ppm	98
111) Phenanthrene	9.144	178	407874	49.66 ppm	99
112) Anthracene	9.192	178	417549	50.72 ppm	98
113) Carbazole	9.353	167	451469	51.71 ppm	99
114) Di-n-butylphthalate	9.684	149	531659	53.98 ppm	99
115) 4-Nitroquinonline-1-oxide	9.919	190	17977	44.31 ppm	88
116) Fluoranthene	10.353	202	468565	53.53 ppm	97
118) Methyl Parathion	9.481	109	67214	46.69 ppm	95
119) Ethyl Parathion	9.866	97	52555	48.14 ppm	98
120) Methapyrilene	9.978	58	119789	49.55 ppm	98
121) Isodrin	10.182	193	41820	48.01 ppm	88
122) Benzidine	10.513	184	316800	50.90 ppm	97
123) Pyrene	10.620	202	488248	51.09 ppm	99
125) Aramite	10.872	185	62185m	94.25 ppm	
126) p-(Dimethylamino)azobe...	10.989	120	144895	50.45 ppm	95
127) Chlorobenzilate	11.043	139	164257	50.52 ppm	87
128) Butyl benzyl phthalate	11.476	149	237626	49.22 ppm	99
129) 3,3-Dimethylbenzidine	11.465	212	313856	50.64 ppm	99
130) 2-Acetylaminofluorene	11.856	181	212716	51.78 ppm	100
131) 3,3'-Dichlorobenzidine	12.337	252	170521	50.37 ppm	98
132) Benzo(a)anthracene	12.364	228	427205	49.61 ppm	98
133) Chrysene	12.428	228	403729	49.04 ppm	99
134) bis(2-Ethylhexyl)phtha...	12.449	149	337865	49.10 ppm	98
136) Di-n-octyl phthalate	13.770	149	569672	50.71 ppm	98
137) 7,12-Dimethylbenz(a)an...	14.482	256	209639	50.74 ppm	94
138) Benzo(b)Fluoranthene	14.487	252	415250	50.35 ppm	97
139) Benzo(k)fluoranthene	14.546	252	389557	50.74 ppm	99
140) Benzo(a)pyrene	15.183	252	360094	50.84 ppm	96
141) 3-Methylcholanthrene	15.958	268	220615	52.92 ppm	94
142) Indeno(1,2,3-cd)Pyrene	17.258	276	287522	51.38 ppm	92
143) Dibenz(a,h)anthracene	17.306	278	331576	51.84 ppm	98
144) Benzo(g,h,i)perylene	17.712	276	289537	51.61 ppm	98

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

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\5973D\Data\072816\
Data File : BH246.D
Acq On : 28 Jul 2016 4:05 pm
Operator : J.Misiurewicz
Sample : 50 ppm STD Inst : 5973D
Misc : Initial Calibration 8270D/625
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jul 29 07:49:52 2016
Quant Method : I:\ACQUDATA\5973D\Methods\8270072816.M
Quant Title : 8270 BNA ANALYSIS
QLast Update : Fri Jul 29 07:31:03 2016
Response via : Initial Calibration

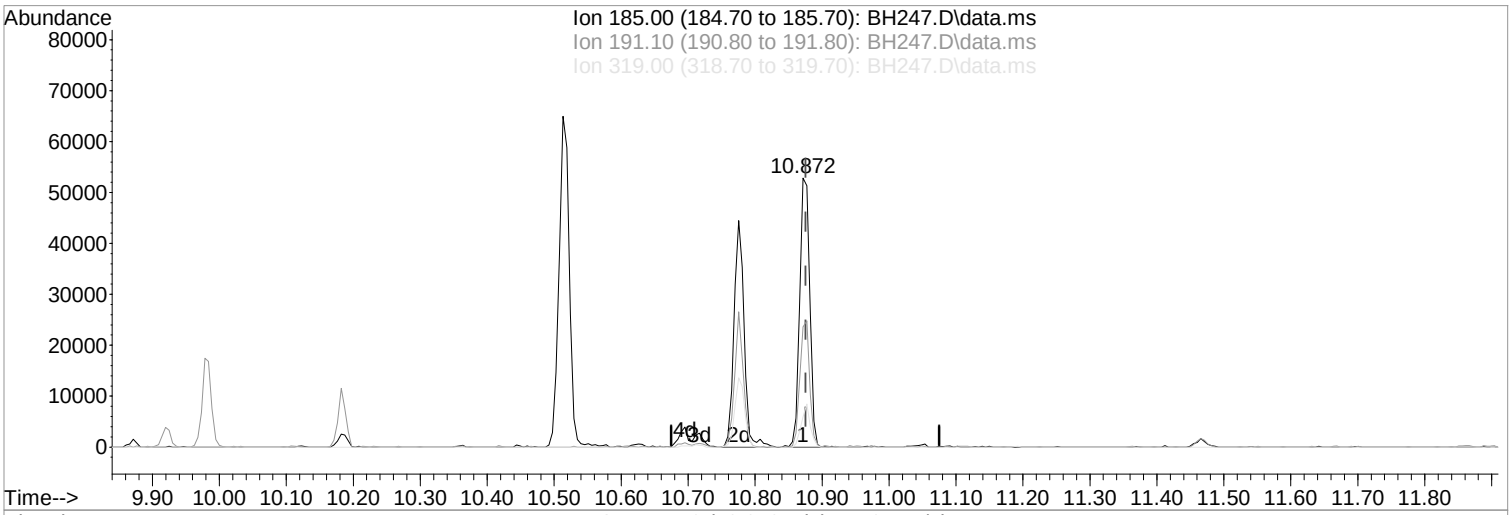


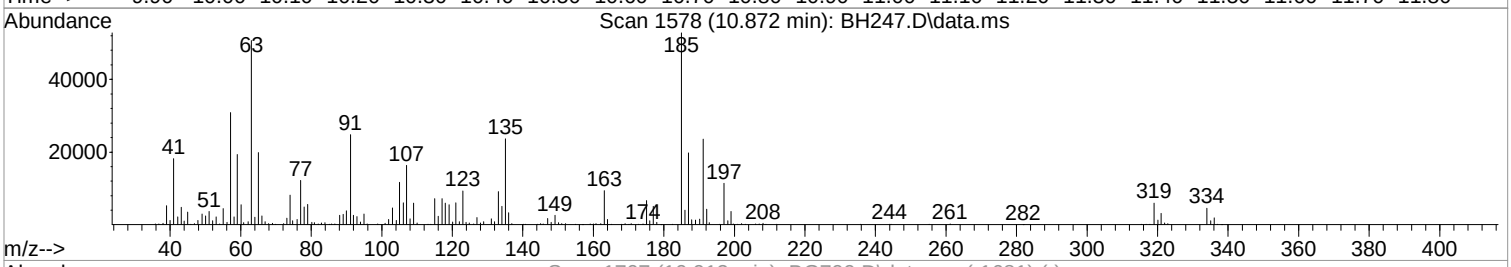
1st DM 07/29/16
2nd MW 07/29/16

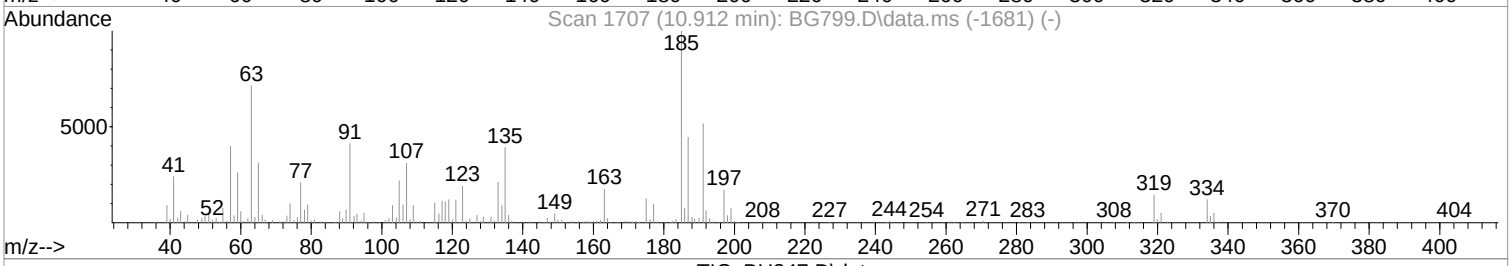
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\5973D\Data\072816\
Data File : BH247.D
Acq On : 28 Jul 2016 4:33 pm
Operator : J.Misiurewicz
Sample : 80 ppm STD Inst : 5973D
Misc : Initial Calibration 8270D/625
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jul 29 07:41:27 2016
Quant Method : I:\ACQUDATA\5973D\Methods\8270072816.M
Quant Title : 8270 BNA ANALYSIS
QLast Update : Fri Jul 29 07:31:03 2016
Response via : Initial Calibration







TIC: BH247.D\data.ms

(125) Aramite (TM)

10.872min (-0.004) 155.25 ppm m

response 101859

Ion	Exp%	Act%
185.00	100	100
191.10	48.70	44.65
319.00	15.90	11.29
0.00	0.00	0.00

Manual Integration:

After

Split Peak

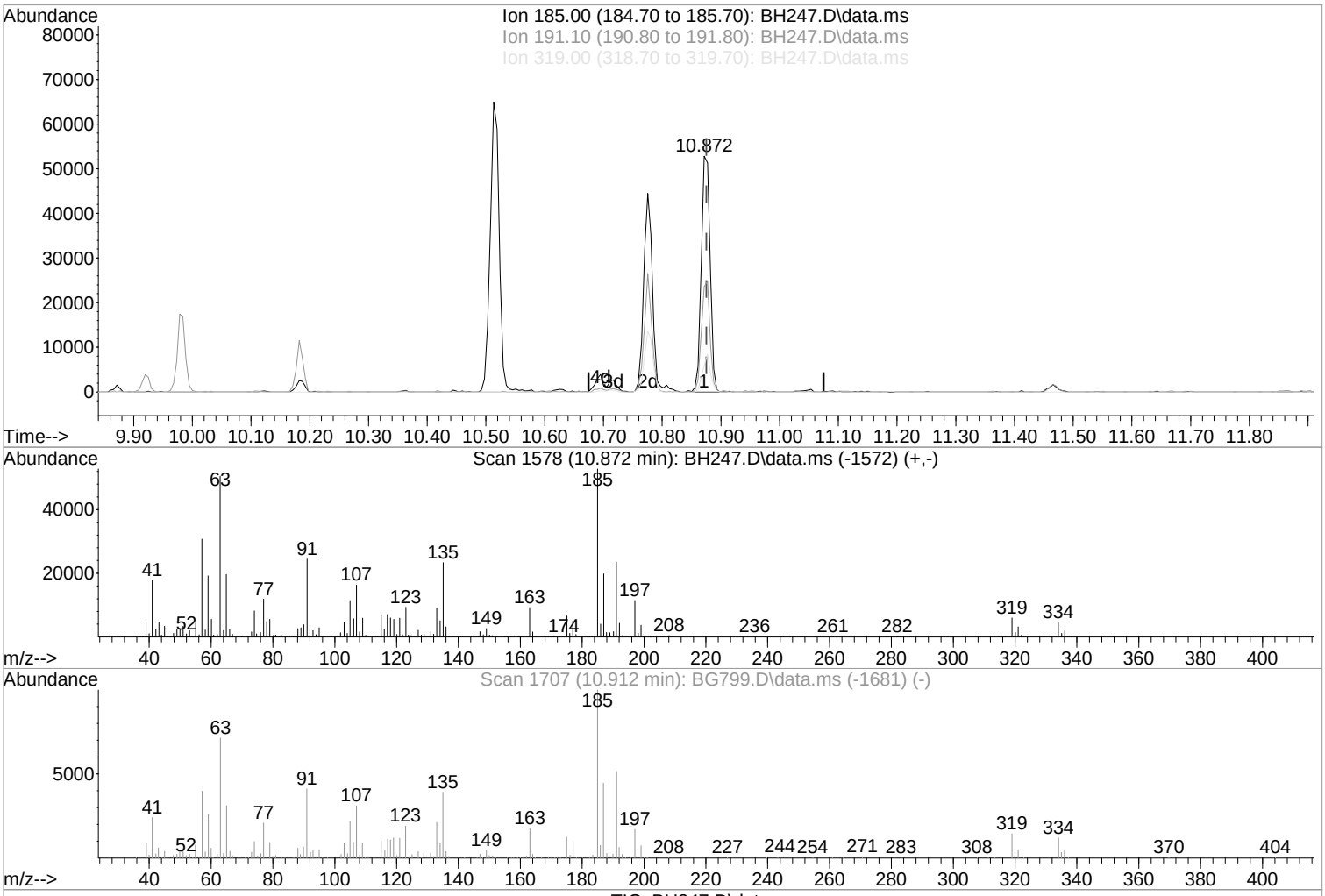
07/29/16

1st DM 07/29/16
2nd MW 07/29/16

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\5973D\Data\072816\
Data File : BH247.D
Acq On : 28 Jul 2016 4:33 pm
Operator : J.Misiurewicz
Sample : 80 ppm STD Inst : 5973D
Misc : Initial Calibration 8270D/625
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jul 29 07:41:27 2016
Quant Method : I:\ACQUDATA\5973D\Methods\8270072816.M
Quant Title : 8270 BNA ANALYSIS
QLast Update : Fri Jul 29 07:31:03 2016
Response via : Initial Calibration



TIC: BH247.D\data.ms

(125) Aramite (TM)

10.872min (-0.004) 83.35 ppm

response 54684

Ion	Exp%	Act%
185.00	100	100
191.10	48.70	44.53
319.00	15.90	11.29
0.00	0.00	0.00

Manual Integration:

Before

07/29/16

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\5973D\Data\072816\
Data File : BH247.D
Acq On : 28 Jul 2016 4:33 pm
Operator : J.Misiurewicz
Sample : 80 ppm STD Inst : 5973D
Misc : Initial Calibration 8270D/625
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jul 29 07:51:15 2016
Quant Method : I:\ACQUDATA\5973D\Methods\8270072816.M
Quant Title : 8270 BNA ANALYSIS
QLast Update : Fri Jul 29 07:31:03 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) d4-1,4-Dichlorobenzene	4.790	152	77186	40.00	ppm	0.00
33) d8-Naphthalene	5.951	136	352486	40.00	ppm	0.00
57) d10-Acenaphthene	7.652	164	194377	40.00	ppm	0.00
91) d10-Phenanthrene	9.123	188	323122	40.00	ppm	0.00
117) d12-Chrysene	12.385	240	301039	40.00	ppm	0.00
135) d12-Perylene	15.311	264	284789	40.00	ppm	0.00
System Monitoring Compounds						
7) SURR1,2-FLUOROPHENOL	3.721	112	233774	80.62	ppm	0.00
Spiked Amount 200.000	Range 10 - 105		Recovery = 40.31%			
12) SURR2,PHENOL-D6	4.464	99	273862	81.38	ppm	0.00
Spiked Amount 200.000	Range 10 - 107		Recovery = 40.69%			
34) SURR4,NITROBENZENE-D5	5.282	82	222063	79.73	ppm	0.00
Spiked Amount 100.000	Range 31 - 110		Recovery = 79.73%			
63) SURR5,2-FLUOROBIPHENYL	6.989	172	498244	80.05	ppm	0.00
Spiked Amount 100.000	Range 31 - 118		Recovery = 80.05%			
88) SURR3,2,4,6-TRIBROMOPH...	8.438	330	62682	84.59	ppm	0.00
Spiked Amount 200.000	Range 35 - 141		Recovery = 42.30%			
124) SURR6,TERPHENYL-D14	10.808	244	510267	82.48	ppm	0.00
Spiked Amount 100.000	Range 30 - 133		Recovery = 82.48%			
Target Compounds						Qvalue
2) Pyridine	2.731	79	241873	78.95	ppm	97
3) N-Nitrosodimethylamine	2.694	74	140235	79.46	ppm	98
4) 2-Picoline	3.282	93	244649	80.17	ppm	99
5) N-Nitrosomethylamine	3.357	42	113783	71.79	ppm	96
6) Methyl Methansulfonate	3.587	80	111330	78.58	ppm	96
8) N-Nitrosodiethylamine	3.897	102	98153	81.49	ppm	96
9) Ethyl Mathanesulfonate	4.132	79	182587	80.48	ppm	97
10) Benzaldehyde	4.421	106	142210	77.62	ppm	97
11) Aniline	4.507	93	391715	80.20	ppm	99
13) Phenol	4.475	94	270981	79.60	ppm	91
14) bis(2-Clethyl)Ether	4.550	93	209008	79.33	ppm	98
15) Pentachloroethane	4.550	117	74610	78.12	ppm	94
16) 2-Chlorophenol	4.608	128	224977	81.96	ppm	94
17) 1,3-Diclbenzene	4.742	146	240513	80.14	ppm	99
18) 1,4-Dichlorobenzene	4.801	146	246504	79.20	ppm	97
19) 1,2-Diclbenzene	4.935	146	240754	80.92	ppm	97
20) Benzyl Alcohol	4.903	79	163621	80.69	ppm	94
21) 1-Methyl-2-pyrrolidinone	4.951	99	163829	80.05	ppm	93
22) 2,2'-oxybis(1-Chloropr...	5.015	45	291217	78.25	ppm	97
23) 2-Methylphenol	5.010	108	203029	79.11	ppm	98
24) 3+4-Methylphenol	5.143	108	215395	79.66	ppm	97
25) Acetophenone	5.143	105	347514	79.23	ppm	99
26) N-Nitroso-Di-n-propyla...	5.138	70	183675	79.34	ppm	99
27) N-Nitrosopyrrolidine	5.133	100	131869	80.60	ppm	97
28) N-Nitrosomorpholine	5.165	56	137919	76.30	ppm	92
29) o-Toluidine	5.175	106	363450	79.40	ppm	97
30) Hexachloroethane	5.240	117	99607	80.21	ppm	97
31) o,o,o-Triethylphosphor...	5.678	198	107675	78.64	ppm	95
32) Alpha-terpinol	5.972	121	90476	81.48	ppm	93
35) Nitrobenzene	5.298	77	219218	79.48	ppm	97
36) N-Nitrosopiperidine	5.438	42	150301	78.43	ppm	98
37) Isophorone	5.512	82	426841	78.10	ppm	99
38) 2-Nitrophenol	5.593	139	106136	84.67	ppm	98

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\5973D\Data\072816\
Data File : BH247.D
Acq On : 28 Jul 2016 4:33 pm
Operator : J.Misiurewicz
Sample : 80 ppm STD Inst : 5973D
Misc : Initial Calibration 8270D/625
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jul 29 07:51:15 2016
Quant Method : I:\ACQUDATA\5973D\Methods\8270072816.M
Quant Title : 8270 BNA ANALYSIS
QLast Update : Fri Jul 29 07:31:03 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
39) Benzoic Acid	5.737	105	87397	75.35	ppm		90
40) 2,4-Dimethylphenol	5.625	107	223039	79.45	ppm		97
41) bis(-2-Chloroethoxy)Me...	5.710	93	267307	76.96	ppm		99
42) 2,4-Dichlorophenol	5.823	162	176745	79.15	ppm		98
43) a,a-Dimethylphenethyla...	5.940	58	621894	80.56	ppm		96
44) 1,2,4-Trichlorobenzene	5.892	180	199990	76.59	ppm		95
45) Naphthalene	5.972	128	665819	76.33	ppm		99
46) 4-Chloroaniline	6.021	127	293199	78.83	ppm		99
47) 2,6-Dichlorophenol	6.031	162	184018	78.78	ppm		96
48) Hexachlorobutadiene	6.079	225	110276	77.41	ppm		100
49) Hexachloropropene	6.047	213	132335	77.97	ppm		100
50) 4-Chloro-3-methylphenol	6.497	107	196424	82.86	ppm		92
51) N-N-di-n-butylamine	6.336	84	163608	71.45	ppm		99
52) Caprolactam	6.379	113	76715	76.79	ppm		97
53) p-Phenylenediamine	6.374	80	23682	69.97	ppm		87
54) Safrole	6.545	162	165526	78.82	ppm		98
55) 2-Methylnaphthalene	6.636	142	436110	78.50	ppm		99
56) 1-Methylnaphthalene	6.732	142	407189	77.31	ppm		98
58) Hexachlorocyclopentadiene	6.780	237	90101	83.55	ppm		97
59) 1,2,4,5-Tetrachloroben...	6.796	216	190348	78.66	ppm		100
60) 1,2,3,4-Tetrachloroben...	7.074	216	210944	82.13	ppm		97
61) 2,4,6-Trichlorophenol	6.914	196	133333	85.92	ppm		96
62) 2,4,5-Trichlorophenol	6.962	196	132450	84.83	ppm		99
64) Isosafrole	7.053	104	93556	82.34	ppm		94
65) 1,1'-Biphenyl	7.090	154	588432	81.32	ppm		99
66) 2-Chloronaphthalene	7.112	162	438673	79.86	ppm		99
67) 2-Nitroaniline	7.213	65	123871	86.57	ppm		99
68) 1,4-Naphthoquinone	7.288	158	91026	83.31	ppm		93
69) m-Dinitrobenzene	7.427	168	61139	80.28	ppm		96
70) Acenaphthylene	7.518	152	694089	82.53	ppm		99
71) Dimethyl phthalate	7.390	163	452490	79.79	ppm		100
72) 2,6-Dinitrotoluene	7.454	165	96279	86.08	ppm		97
73) Acenaphthene	7.689	153	449651	80.95	ppm		97
74) 3-Nitroaniline	7.620	138	125506	84.73	ppm		97
75) 2,4-Dinitrophenol	7.732	184	27539	81.81	ppm		98
76) Dibenzofuran	7.855	168	602696	80.70	ppm		96
77) 2,4-Dinitrotoluene	7.850	165	120857	82.89	ppm		96
78) 4-Nitrophenol	7.807	65	70198	80.58	ppm		96
79) Pentachlorobenzene	7.812	250	173293	82.46	ppm		99
80) 1-Napthylamine	7.941	143	430634	77.90	ppm		98
81) 2-Napthylamine	8.016	143	471026	80.39	ppm		98
82) 2,3,4,6-Tetrachlorophenol	7.983	232	91380	83.48	ppm		94
83) Fluorene	8.192	166	489834	79.79	ppm		97
84) 4-Chlorophenyl-phenyle...	8.192	204	224801	80.48	ppm		98
85) Diethylphthalate	8.080	149	469171	79.18	ppm		99
86) 4-Nitroaniline	8.229	138	139972	87.54	ppm		98
87) 5-Nitro-o-toluidine	8.213	152	142693	87.02	ppm		93
89) Sulfotepp	8.460	322	65772	85.38	ppm		93
90) Octachlorocyclopentene	8.438	307	69288	86.30	ppm		92
92) Thionazin	8.160	107	89399	77.45	ppm		100
93) 4,6-Dinitro-2-methylph...	8.256	198	51818	81.00	ppm		80
94) Diphenylamine	8.315	169	833430	157.01	ppm		100
95) 1,2 Diphenylhydrazine	8.347	77	541110	79.03	ppm		98
96) N-Nitrosodiphenylamine	8.315	169	833430	157.01	ppm		100
97) 1,3,5-Trinirobenzene	8.604	213	24967	83.20	ppm	#	1
98) Diallate	8.588	86	201245	77.08	ppm		92

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\5973D\Data\072816\
Data File : BH247.D
Acq On : 28 Jul 2016 4:33 pm
Operator : J.Misiurewicz
Sample : 80 ppm STD Inst : 5973D
Misc : Initial Calibration 8270D/625
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jul 29 07:51:15 2016
Quant Method : I:\ACQUDATA\5973D\Methods\8270072816.M
Quant Title : 8270 BNA ANALYSIS
QLast Update : Fri Jul 29 07:31:03 2016
Response via : Initial Calibration

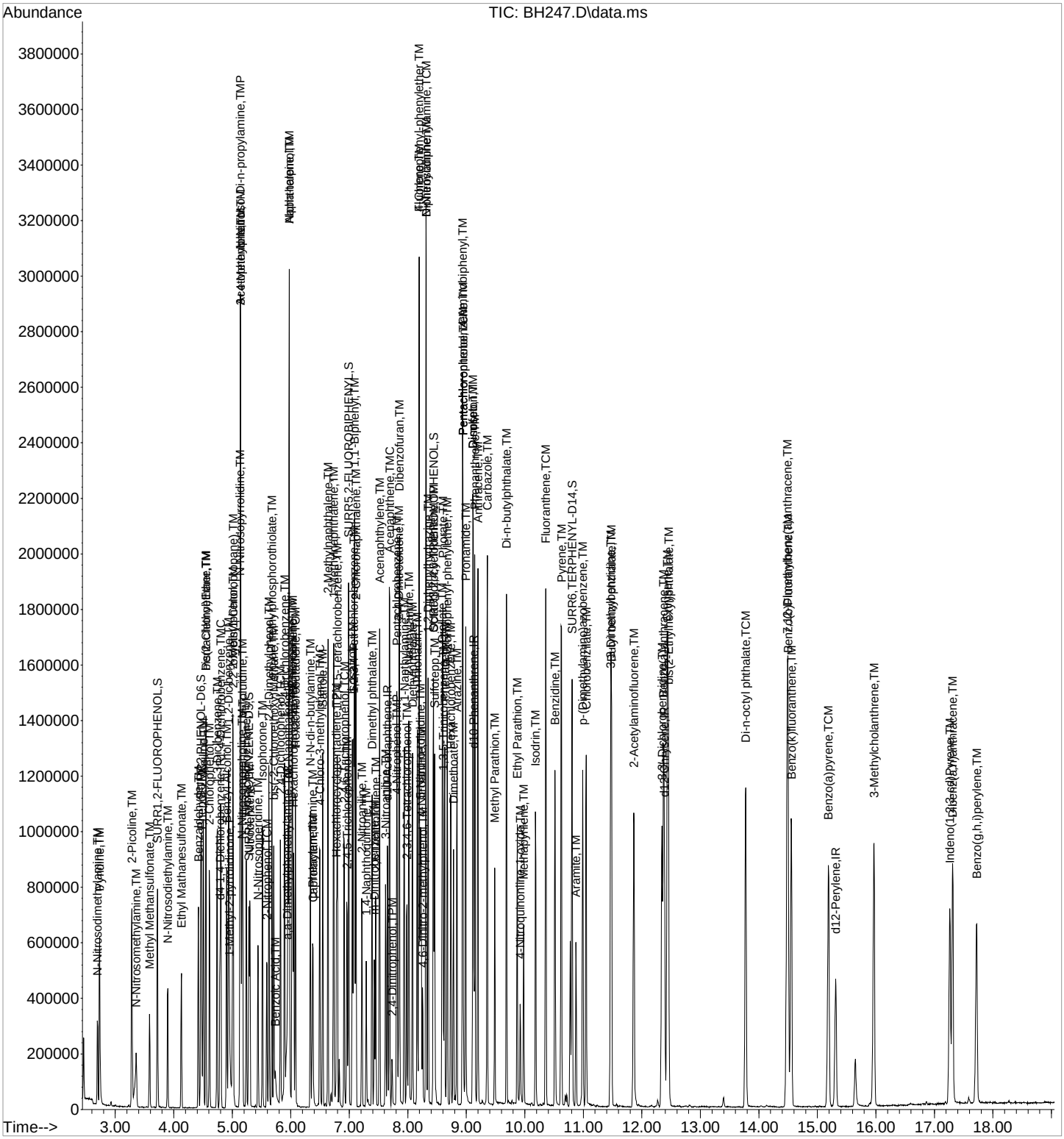
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
99)	Phorate	8.599	121	104402	81.55	ppm	88
100)	Phenacetin	8.631	108	282167	82.30	ppm	93
101)	4-Bromophenyl-phenylether	8.673	248	122088	76.01	ppm	97
102)	Hexachlorobenzene	8.732	284	139380	76.46	ppm	94
103)	Dimethoate	8.780	87	176422	78.15	ppm	96
104)	Atrazine	8.839	215	64067	85.64	ppm	93
105)	Pentachlorophenol	8.941	266	64863	85.12	ppm	96
106)	4-Aminobiphenyl	8.936	169	537355	84.81	ppm	100
107)	Pentachloronitrobenzene	8.941	237	54413	86.19	ppm	98
108)	Pronamide	8.989	173	251787	85.98	ppm	99
109)	Dinoseb	9.112	211	63981	74.21	ppm	99
110)	Disulfoton	9.112	88	257666	77.08	ppm	98
111)	Phenanthrene	9.144	178	684267	80.05	ppm	99
112)	Anthracene	9.198	178	706562	82.46	ppm	99
113)	Carbazole	9.358	167	748518	82.38	ppm	99
114)	Di-n-butylphthalate	9.684	149	890333	86.85	ppm	99
115)	4-Nitroquinonline-1-oxide	9.920	190	32950	78.04	ppm	87
116)	Fluoranthene	10.358	202	769681	84.49	ppm	98
118)	Methyl Parathion	9.486	109	124624	87.06	ppm	99
119)	Ethyl Parathion	9.872	97	96497	81.41	ppm	98
120)	Methapyrilene	9.979	58	174669	72.66	ppm	100
121)	Isodrin	10.182	193	74546	86.07	ppm	95
122)	Benzidine	10.513	184	506636	81.85	ppm	97
123)	Pyrene	10.626	202	795828	83.74	ppm	99
125)	Aramite	10.872	185	101859m	155.25	ppm	
126)	p-(Dimethylamino)azobe...	10.989	120	241325	84.51	ppm	98
127)	Chlorobenzilate	11.048	139	273347	84.55	ppm	94
128)	Butyl benzyl phthalate	11.481	149	383242	79.84	ppm	99
129)	3,3-Dimethylbenzidine	11.465	212	500635	81.23	ppm	100
130)	2-Acetylaminofluorene	11.861	181	347399	85.04	ppm	98
131)	3,3'-Dichlorobenzidine	12.343	252	276361	82.09	ppm	97
132)	Benzo(a)anthracene	12.369	228	693299	80.96	ppm	99
133)	Chrysene	12.434	228	658507	80.44	ppm	98
134)	bis(2-Ethylhexyl)phtha...	12.455	149	566578	82.80	ppm	98
136)	Di-n-octyl phthalate	13.776	149	956769	85.56	ppm	100
137)	7,12-Dimethylbenz(a)an...	14.487	256	341406	83.01	ppm	97
138)	Benzo(b)Fluoranthene	14.498	252	695057	84.66	ppm	97
139)	Benzo(k)fluoranthene	14.557	252	626158	81.92	ppm	98
140)	Benzo(a)pyrene	15.188	252	590084	83.68	ppm	95
141)	3-Methylcholanthrene	15.969	268	357430	86.12	ppm	97
142)	Indeno(1,2,3-cd)Pyrene	17.263	276	450587	80.88	ppm	98
143)	Dibenz(a,h)anthracene	17.311	278	524071	82.31	ppm	99
144)	Benzo(g,h,i)perylene	17.723	276	424742	76.05	ppm	98

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

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\5973D\Data\072816\
Data File : BH247.D
Acq On : 28 Jul 2016 4:33 pm
Operator : J.Misiurewicz
Sample : 80 ppm STD Inst : 5973D
Misc : Initial Calibration 8270D/625
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jul 29 07:51:15 2016
Quant Method : I:\ACQUDATA\5973D\Methods\8270072816.M
Quant Title : 8270 BNA ANALYSIS
QLast Update : Fri Jul 29 07:31:03 2016
Response via : Initial Calibration

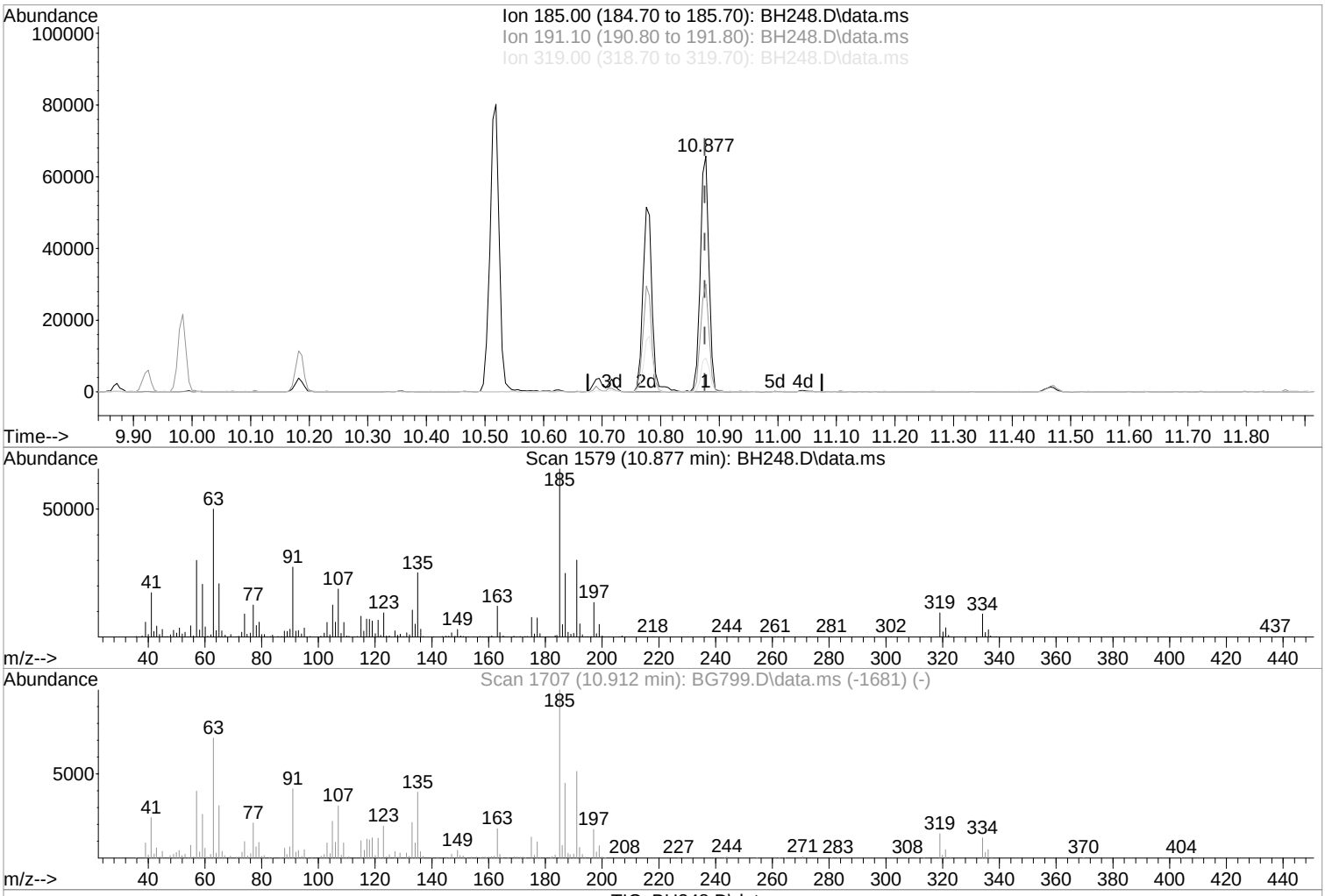


1st DM 07/29/16
2nd MW 07/29/16

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\5973D\Data\072816\
Data File : BH248.D
Acq On : 28 Jul 2016 5:00 pm
Operator : J.Misiurewicz
Sample : 100 ppm STD Inst : 5973D
Misc : Initial Calibration 8270D/625
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jul 29 07:41:32 2016
Quant Method : I:\ACQUDATA\5973D\Methods\8270072816.M
Quant Title : 8270 BNA ANALYSIS
QLast Update : Fri Jul 29 07:31:03 2016
Response via : Initial Calibration



TIC: BH248.D\data.ms

(125) Aramite (TM)

10.877min (+0.002) 192.29 ppm m

response 124509

Ion	Exp%	Act%
185.00	100	100
191.10	48.70	45.80
319.00	15.90	14.36
0.00	0.00	0.00

Manual Integration:

After

Split Peak

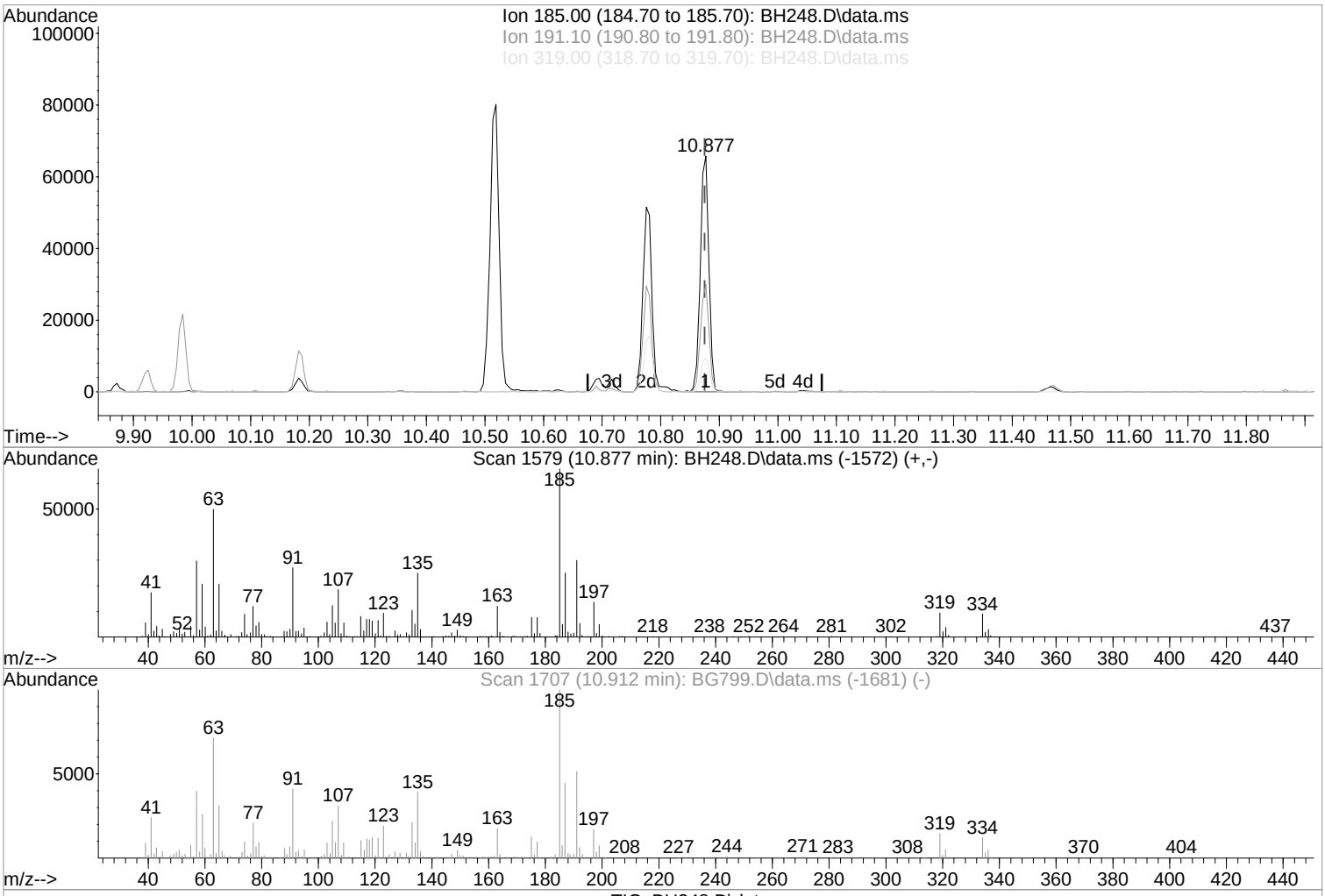
07/29/16

1st DM 07/29/16
2nd MW 07/29/16

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\5973D\Data\072816\
Data File : BH248.D
Acq On : 28 Jul 2016 5:00 pm
Operator : J.Misiurewicz
Sample : 100 ppm STD Inst : 5973D
Misc : Initial Calibration 8270D/625
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jul 29 07:41:32 2016
Quant Method : I:\ACQUDATA\5973D\Methods\8270072816.M
Quant Title : 8270 BNA ANALYSIS
QLast Update : Fri Jul 29 07:31:03 2016
Response via : Initial Calibration



(125) Aramite (TM)

10.877min (+0.002) 104.14 ppm

response 67433

Ion	Exp%	Act%
185.00	100	100
191.10	48.70	45.57
319.00	15.90	14.36
0.00	0.00	0.00

Manual Integration:

Before

07/29/16

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\5973D\Data\072816\
Data File : BH248.D
Acq On : 28 Jul 2016 5:00 pm
Operator : J.Misiurewicz
Sample : 100 ppm STD Inst : 5973D
Misc : Initial Calibration 8270D/625
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jul 29 07:53:33 2016
Quant Method : I:\ACQUDATA\5973D\Methods\8270072816.M
Quant Title : 8270 BNA ANALYSIS
QLast Update : Fri Jul 29 07:31:03 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) d4-1,4-Dichlorobenzene	4.790	152	76594	40.00	ppm	0.00
33) d8-Naphthalene	5.951	136	347310	40.00	ppm	0.00
57) d10-Acenaphthene	7.652	164	201702	40.00	ppm	0.00
91) d10-Phenanthrene	9.123	188	333444	40.00	ppm	0.00
117) d12-Chrysene	12.391	240	297109	40.00	ppm	0.00
135) d12-Perylene	15.311	264	283650	40.00	ppm	0.00
System Monitoring Compounds						
7) SURR1,2-FLUOROPHENOL	3.721	112	294210	102.24	ppm	0.00
Spiked Amount 200.000	Range 10 - 105		Recovery = 51.12%			
12) SURR2,PHENOL-D6	4.464	99	344413	103.14	ppm	0.00
Spiked Amount 200.000	Range 10 - 107		Recovery = 51.57%			
34) SURR4,NITROBENZENE-D5	5.282	82	291208	106.11	ppm	0.00
Spiked Amount 100.000	Range 31 - 110		Recovery = 106.11%			
63) SURR5,2-FLUOROBIPHENYL	6.989	172	630254	97.58	ppm	0.00
Spiked Amount 100.000	Range 31 - 118		Recovery = 97.58%			
88) SURR3,2,4,6-TRIBROMOPH...	8.438	330	81887	106.49	ppm	0.00
Spiked Amount 200.000	Range 35 - 141		Recovery = 53.24%			
124) SURR6,TERPHENYL-D14	10.808	244	638570	104.58	ppm	0.00
Spiked Amount 100.000	Range 30 - 133		Recovery = 104.58%			
Target Compounds						Qvalue
2) Pyridine	2.731	79	304452	100.14	ppm	96
3) N-Nitrosodimethylamine	2.699	74	178710	102.05	ppm	96
4) 2-Picoline	3.282	93	307119	101.42	ppm	99
5) N-Nitrosomethylamine	3.357	42	147298	93.66	ppm	92
6) Methyl Methansulfonate	3.587	80	139558	99.26	ppm	98
8) N-Nitrosodiethylamine	3.897	102	123811	103.59	ppm	98
9) Ethyl Mathanesulfonate	4.132	79	226845	100.76	ppm	99
10) Benzaldehyde	4.421	106	175735	96.66	ppm	98
11) Aniline	4.507	93	492451	101.61	ppm	99
13) Phenol	4.475	94	340403	100.76	ppm	96
14) bis(2-Clethyl)Ether	4.550	93	263504	100.79	ppm	98
15) Pentachloroethane	4.550	117	94760	99.99	ppm	96
16) 2-Chlorophenol	4.614	128	284105	104.30	ppm	98
17) 1,3-Diclbenzene	4.742	146	300556	100.92	ppm	99
18) 1,4-Dichlorobenzene	4.806	146	312748	101.26	ppm	97
19) 1,2-Diclbenzene	4.935	146	294662	99.80	ppm	96
20) Benzyl Alcohol	4.903	79	212917	105.82	ppm	96
21) 1-Methyl-2-pyrrolidinone	4.956	99	209710	103.25	ppm	97
22) 2,2'-oxybis(1-Chloropr...	5.015	45	371450	100.58	ppm	98
23) 2-Methylphenol	5.015	108	258926	101.66	ppm	96
24) 3+4-Methylphenol	5.143	108	273972	102.11	ppm	90
25) Acetophenone	5.143	105	433777	99.67	ppm	95
26) N-Nitroso-Di-n-propyla...	5.143	70	232280	101.11	ppm	100
27) N-Nitrosopyrrolidine	5.138	100	168531	103.81	ppm	77
28) N-Nitrosomorpholine	5.165	56	174208	97.12	ppm	100
29) o-Toluidine	5.175	106	465163	102.41	ppm	93
30) Hexachloroethane	5.240	117	126832	102.92	ppm	95
31) o,o,o-Triethylphosphor...	5.678	198	133497	98.26	ppm	92
32) Alpha-terpinol	5.972	121	113042	102.59	ppm	99
35) Nitrobenzene	5.304	77	283970	104.49	ppm	92
36) N-Nitrosopiperidine	5.443	42	189423	100.31	ppm	95
37) Isophorone	5.518	82	538791	100.06	ppm	99
38) 2-Nitrophenol	5.593	139	137751	111.53	ppm	98

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\5973D\Data\072816\
Data File : BH248.D
Acq On : 28 Jul 2016 5:00 pm
Operator : J.Misiurewicz
Sample : 100 ppm STD Inst : 5973D
Misc : Initial Calibration 8270D/625
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jul 29 07:53:33 2016
Quant Method : I:\ACQUDATA\5973D\Methods\8270072816.M
Quant Title : 8270 BNA ANALYSIS
QLast Update : Fri Jul 29 07:31:03 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
39) Benzoic Acid	5.748	105	121629	106.43	ppm		91
40) 2,4-Dimethylphenol	5.630	107	274668	99.30	ppm		100
41) bis(-2-Chloroethoxy)Me...	5.710	93	340543	99.51	ppm		95
42) 2,4-Dichlorophenol	5.823	162	228816	103.99	ppm		96
43) a,a-Dimethylphenethyla...	5.956	58	803411	105.62	ppm		93
44) 1,2,4-Trichlorobenzene	5.892	180	258710	100.56	ppm		97
45) Naphthalene	5.972	128	838099	97.51	ppm		99
46) 4-Chloroaniline	6.026	127	370428	101.08	ppm		98
47) 2,6-Dichlorophenol	6.031	162	230913	100.32	ppm		98
48) Hexachlorobutadiene	6.079	225	140078	99.79	ppm		98
49) Hexachloropropene	6.053	213	165657	99.06	ppm		96
50) 4-Chloro-3-methylphenol	6.497	107	240848	103.11	ppm		95
51) N-N-di-n-butylamine	6.336	84	208572	92.45	ppm		98
52) Caprolactam	6.384	113	96705	98.24	ppm		91
53) p-Phenylenediamine	6.374	80	29924	89.73	ppm		93
54) Safrole	6.545	162	207066	100.07	ppm		96
55) 2-Methylnaphthalene	6.636	142	553900	101.19	ppm		98
56) 1-Methylnaphthalene	6.732	142	518051	99.83	ppm		99
58) Hexachlorocyclopentadiene	6.780	237	119960	101.95	ppm		99
59) 1,2,4,5-Tetrachloroben...	6.796	216	247681	98.64	ppm		96
60) 1,2,3,4-Tetrachloroben...	7.074	216	262573	98.52	ppm		96
61) 2,4,6-Trichlorophenol	6.914	196	165382	102.70	ppm		97
62) 2,4,5-Trichlorophenol	6.962	196	173892	107.32	ppm		95
64) Isosafrole	7.053	104	117697	99.82	ppm		98
65) 1,1'-Biphenyl	7.090	154	741238	98.72	ppm		99
66) 2-Chloronaphthalene	7.112	162	560755	98.38	ppm		98
67) 2-Nitroaniline	7.219	65	157901	106.34	ppm		86
68) 1,4-Naphthoquinone	7.288	158	111155	98.03	ppm		94
69) m-Dinitrobenzene	7.433	168	85458	100.88	ppm		86
70) Acenaphthylene	7.518	152	855190	97.99	ppm		100
71) Dimethyl phthalate	7.390	163	570894	97.01	ppm		99
72) 2,6-Dinitrotoluene	7.454	165	127571	109.91	ppm		96
73) Acenaphthene	7.689	153	560457	97.24	ppm		96
74) 3-Nitroaniline	7.625	138	168302	109.50	ppm		94
75) 2,4-Dinitrophenol	7.732	184	36928	98.39	ppm		99
76) Dibenzofuran	7.855	168	752407	97.09	ppm		93
77) 2,4-Dinitrotoluene	7.855	165	160441	100.88	ppm		97
78) 4-Nitrophenol	7.812	65	92469	102.29	ppm		93
79) Pentachlorobenzene	7.818	250	216885	99.45	ppm		96
80) 1-Napthylamine	7.941	143	544423	94.91	ppm		99
81) 2-Napthylamine	8.021	143	588410	96.78	ppm		99
82) 2,3,4,6-Tetrachlorophenol	7.983	232	122460	107.82	ppm		94
83) Fluorene	8.197	166	611267	95.95	ppm		99
84) 4-Chlorophenyl-phenyle...	8.192	204	288407	99.51	ppm		97
85) Diethylphthalate	8.080	149	601282	97.79	ppm		100
86) 4-Nitroaniline	8.235	138	180951	109.06	ppm		96
87) 5-Nitro-o-toluidine	8.219	152	187374	110.12	ppm		99
89) Sulfotepp	8.460	322	85625	107.11	ppm		94
90) Octachlorocyclopentene	8.443	307	89154	107.01	ppm		98
92) Thionazin	8.165	107	111271	93.41	ppm		97
93) 4,6-Dinitro-2-methylph...	8.256	198	72758	102.72	ppm		89
94) Diphenylamine	8.315	169	1049939	191.68	ppm		99
95) 1,2 Diphenylhydrazine	8.347	77	672960	95.24	ppm		99
96) N-Nitrosodiphenylamine	8.315	169	1049939	191.68	ppm		99
97) 1,3,5-Trinirobenzene	8.609	213	33620	100.01	ppm	#	1
98) Diallate	8.588	86	254729	94.55	ppm		87

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\5973D\Data\072816\
Data File : BH248.D
Acq On : 28 Jul 2016 5:00 pm
Operator : J.Misiurewicz
Sample : 100 ppm STD Inst : 5973D
Misc : Initial Calibration 8270D/625
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jul 29 07:53:33 2016
Quant Method : I:\ACQUDATA\5973D\Methods\8270072816.M
Quant Title : 8270 BNA ANALYSIS
QLast Update : Fri Jul 29 07:31:03 2016
Response via : Initial Calibration

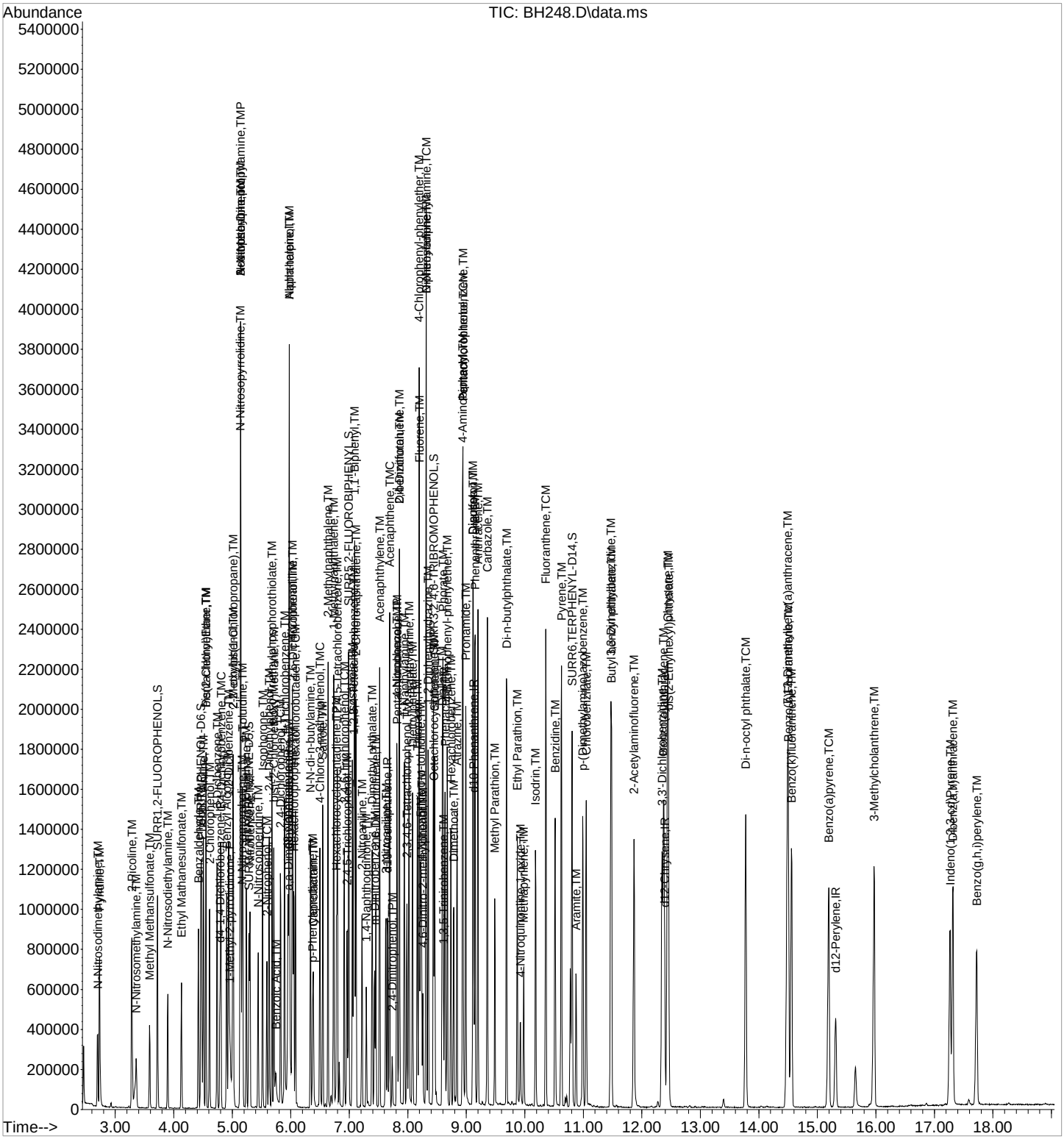
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
99)	Phorate	8.599	121	132067	99.97	ppm	99
100)	Phenacetin	8.636	108	364395	103.00	ppm	95
101)	4-Bromophenyl-phenylether	8.673	248	158778	95.80	ppm	97
102)	Hexachlorobenzene	8.738	284	177119	94.16	ppm	89
103)	Dimethoate	8.786	87	210361	90.30	ppm	98
104)	Atrazine	8.839	215	80222	103.92	ppm	95
105)	Pentachlorophenol	8.941	266	83285	105.91	ppm	96
106)	4-Aminobiphenyl	8.936	169	675124	103.25	ppm	99
107)	Pentachloronitrobenzene	8.941	237	71903	110.37	ppm	91
108)	Pronamide	8.989	173	319221	105.63	ppm	98
109)	Dinoseb	9.112	211	92329	103.78	ppm	96
110)	Disulfoton	9.112	88	323801	93.87	ppm	96
111)	Phenanthrene	9.149	178	864683	98.02	ppm	99
112)	Anthracene	9.198	178	879133	99.43	ppm	100
113)	Carbazole	9.358	167	945125	100.80	ppm	99
114)	Di-n-butylphthalate	9.690	149	1107382	104.68	ppm	99
115)	4-Nitroquinonline-1-oxide	9.925	190	43802	100.53	ppm	88
116)	Fluoranthene	10.358	202	954962	101.59	ppm	98
118)	Methyl Parathion	9.486	109	158070	111.88	ppm	99
119)	Ethyl Parathion	9.872	97	126663	103.53	ppm	92
120)	Methapyrilene	9.979	58	197577	83.28	ppm	98
121)	Isodrin	10.182	193	89907	105.18	ppm	91
122)	Benzidine	10.519	184	625047	102.32	ppm	97
123)	Pyrene	10.626	202	986544	105.19	ppm	100
125)	Aramite	10.877	185	124509m	192.29	ppm	
126)	p-(Dimethylamino)azobe...	10.989	120	304685	108.11	ppm	97
127)	Chlorobenzilate	11.048	139	328789	103.04	ppm	93
128)	Butyl benzyl phthalate	11.482	149	481001	101.53	ppm	98
129)	3,3-Dimethylbenzidine	11.471	212	635103	104.41	ppm	98
130)	2-Acetylaminofluorene	11.867	181	439351	108.98	ppm	98
131)	3,3'-Dichlorobenzidine	12.343	252	344434	103.67	ppm	99
132)	Benzo(a)anthracene	12.369	228	860632	101.83	ppm	99
133)	Chrysene	12.439	228	826305	102.27	ppm	98
134)	bis(2-Ethylhexyl)phtha...	12.455	149	717893	106.30	ppm	98
136)	Di-n-octyl phthalate	13.776	149	1206231	108.30	ppm	99
137)	7,12-Dimethylbenz(a)an...	14.493	256	433572	105.85	ppm	96
138)	Benzo(b)Fluoranthene	14.503	252	856728	104.77	ppm	98
139)	Benzo(k)fluoranthene	14.557	252	793932	104.29	ppm	98
140)	Benzo(a)pyrene	15.193	252	737858	105.05	ppm	98
141)	3-Methylcholanthrene	15.969	268	453130	109.62	ppm	98
142)	Indeno(1,2,3-cd)Pyrene	17.269	276	566863	102.16	ppm	95
143)	Dibenz(a,h)anthracene	17.317	278	647559	102.11	ppm	99
144)	Benzo(g,h,i)perylene	17.723	276	519071	93.31	ppm	98

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

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\5973D\Data\072816\
Data File : BH248.D
Acq On : 28 Jul 2016 5:00 pm
Operator : J.Misiurewicz
Sample : 100 ppm STD Inst : 5973D
Misc : Initial Calibration 8270D/625
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jul 29 07:53:33 2016
Quant Method : I:\ACQUDATA\5973D\Methods\8270072816.M
Quant Title : 8270 BNA ANALYSIS
QLast Update : Fri Jul 29 07:31:03 2016
Response via : Initial Calibration

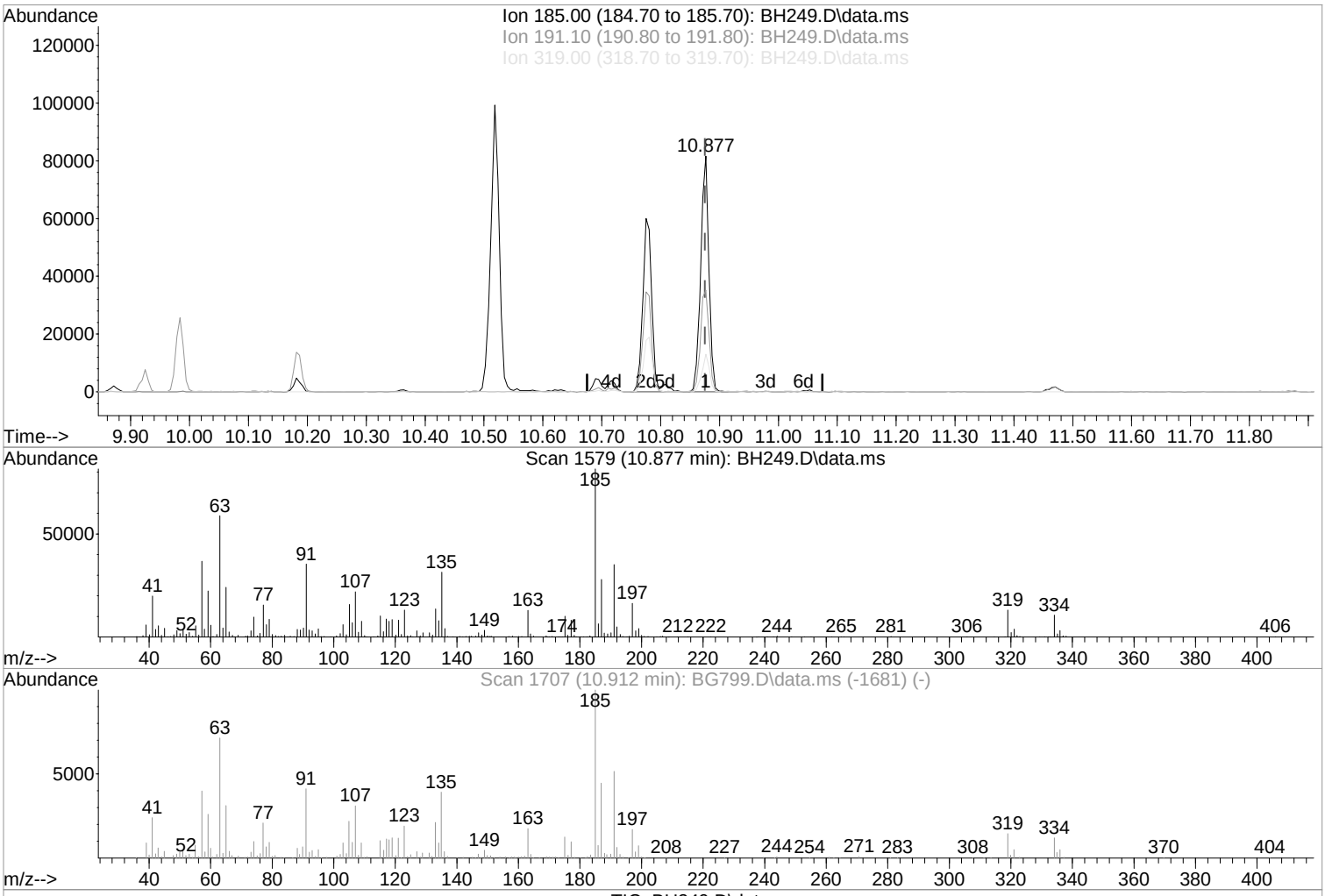


1st DM 07/29/16
2nd MW 07/29/16

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\5973D\Data\072816\
Data File : BH249.D
Acq On : 28 Jul 2016 5:28 pm
Operator : J.Misiurewicz
Sample : 120 ppm STD Inst : 5973D
Misc : Initial Calibration 8270D/625
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jul 29 07:41:37 2016
Quant Method : I:\ACQUDATA\5973D\Methods\8270072816.M
Quant Title : 8270 BNA ANALYSIS
QLast Update : Fri Jul 29 07:31:03 2016
Response via : Initial Calibration



TIC: BH249.D\data.ms

(125) Aramite (TM)

10.877min (+0.002) 221.97 ppm m

response 144992

Ion	Exp%	Act%
185.00	100	100
191.10	48.70	43.12
319.00	15.90	16.04
0.00	0.00	0.00

Manual Integration:

After

Split Peak

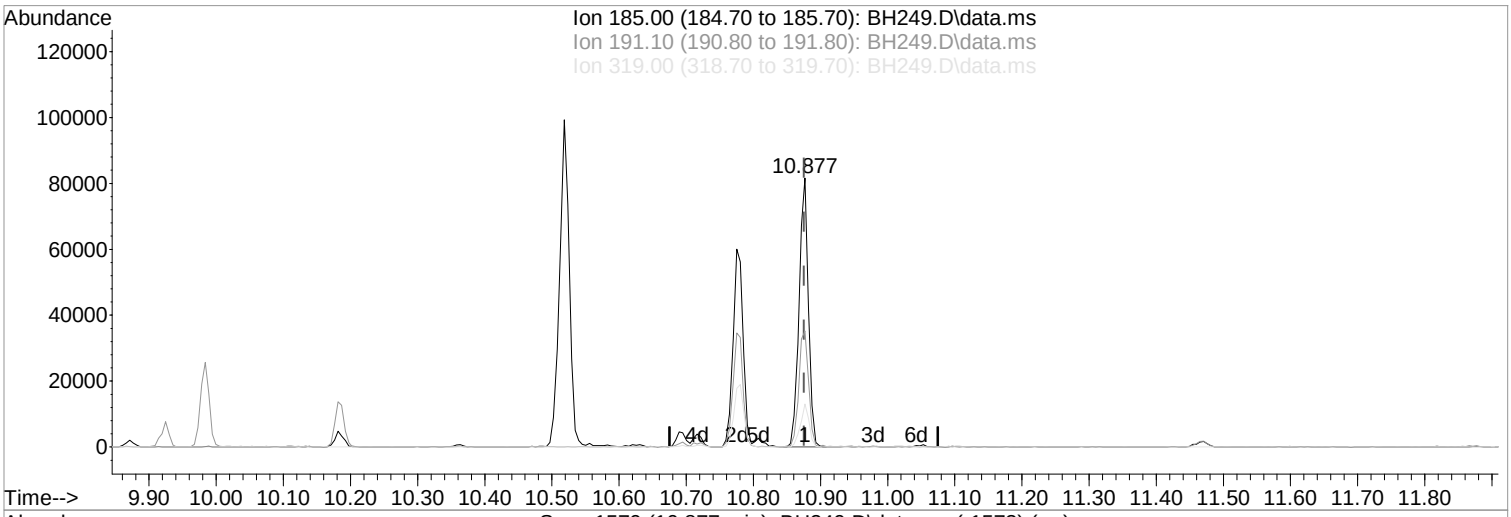
07/29/16

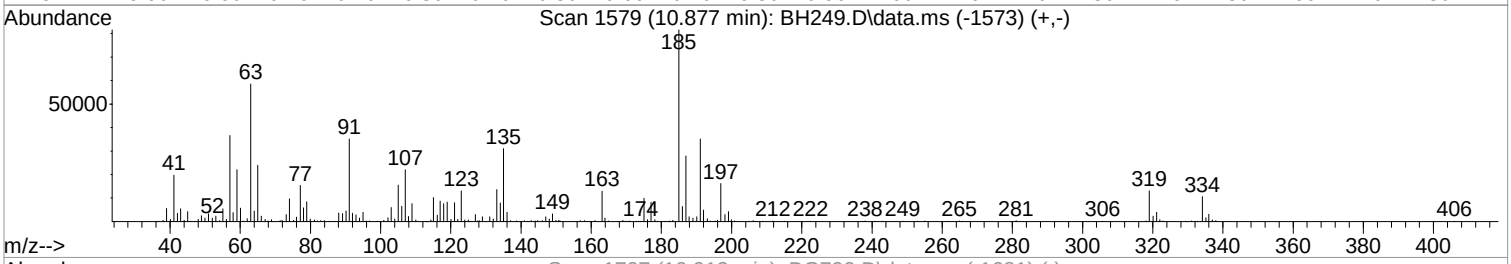
1st DM 07/29/16
2nd MW 07/29/16

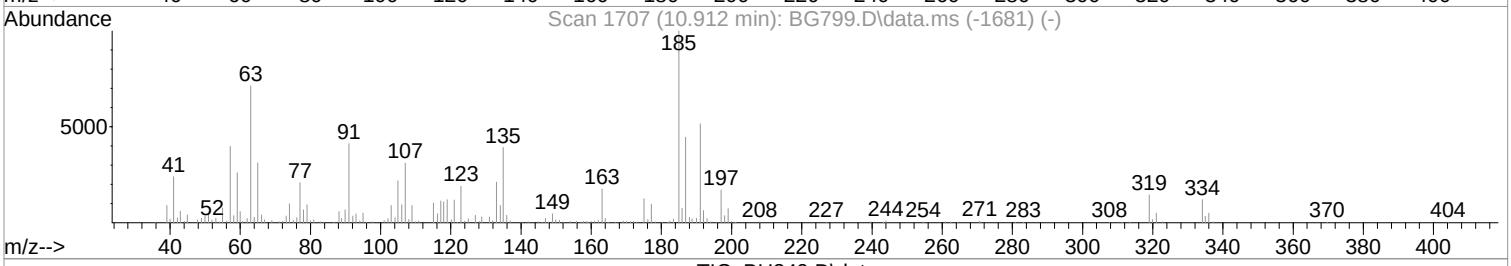
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\5973D\Data\072816\
Data File : BH249.D
Acq On : 28 Jul 2016 5:28 pm
Operator : J.Misiurewicz
Sample : 120 ppm STD Inst : 5973D
Misc : Initial Calibration 8270D/625
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jul 29 07:41:37 2016
Quant Method : I:\ACQUDATA\5973D\Methods\8270072816.M
Quant Title : 8270 BNA ANALYSIS
QLast Update : Fri Jul 29 07:31:03 2016
Response via : Initial Calibration







TIC: BH249.D\data.ms

(125) Aramite (TM)

10.877min (+0.002) 121.51 ppm

response 79370

Ion	Exp%	Act%
185.00	100	100
191.10	48.70	43.00
319.00	15.90	16.04
0.00	0.00	0.00

Manual Integration:

Before

07/29/16

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\5973D\Data\072816\
Data File : BH249.D
Acq On : 28 Jul 2016 5:28 pm
Operator : J.Misiurewicz
Sample : 120 ppm STD Inst : 5973D
Misc : Initial Calibration 8270D/625
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jul 29 07:55:00 2016
Quant Method : I:\ACQUDATA\5973D\Methods\8270072816.M
Quant Title : 8270 BNA ANALYSIS
QLast Update : Fri Jul 29 07:31:03 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) d4-1,4-Dichlorobenzene	4.790	152	75103	40.00	ppm	0.00
33) d8-Naphthalene	5.951	136	344850	40.00	ppm	0.00
57) d10-Acenaphthene	7.657	164	195769	40.00	ppm	0.00
91) d10-Phenanthrene	9.122	188	324494	40.00	ppm	0.00
117) d12-Chrysene	12.390	240	299722	40.00	ppm	0.00
135) d12-Perylene	15.311	264	286304	40.00	ppm	0.00
System Monitoring Compounds						
7) SURR1,2-FLUOROPHENOL	3.720	112	349855	123.99	ppm	0.00
Spiked Amount 200.000	Range 10 - 105		Recovery = 61.99%			
12) SURR2,PHENOL-D6	4.464	99	409726	125.13	ppm	0.00
Spiked Amount 200.000	Range 10 - 107		Recovery = 62.56%			
34) SURR4,NITROBENZENE-D5	5.287	82	345230	126.69	ppm	0.00
Spiked Amount 100.000	Range 31 - 110		Recovery = 126.69%#			
63) SURR5,2-FLUOROBIPHENYL	6.988	172	748179	119.35	ppm	0.00
Spiked Amount 100.000	Range 31 - 118		Recovery = 119.35%#			
88) SURR3,2,4,6-TRIBROMOPH...	8.438	330	96020	128.66	ppm	0.00
Spiked Amount 200.000	Range 35 - 141		Recovery = 64.33%			
124) SURR6,TERPHENYL-D14	10.807	244	759554	123.31	ppm	0.00
Spiked Amount 100.000	Range 30 - 133		Recovery = 123.31%			
Target Compounds						Qvalue
2) Pyridine	2.731	79	355120	119.12	ppm	98
3) N-Nitrosodimethylamine	2.699	74	213575	124.38	ppm	99
4) 2-Picoline	3.282	93	365674	123.16	ppm	99
5) N-Nitrosomethylamine	3.357	42	173751	112.67	ppm	93
6) Methyl Methansulfonate	3.587	80	167618	121.58	ppm	97
8) N-Nitrosodiethylamine	3.897	102	151514	129.28	ppm	98
9) Ethyl Mathanesulfonate	4.132	79	267377	121.13	ppm	98
10) Benzaldehyde	4.421	106	207060	116.16	ppm	98
11) Aniline	4.507	93	585823	123.27	ppm	100
13) Phenol	4.474	94	411621	124.26	ppm	95
14) bis(2-Clethyl)Ether	4.549	93	312528	121.91	ppm	99
15) Pentachloroethane	4.549	117	112579	121.15	ppm	96
16) 2-Chlorophenol	4.614	128	337314	126.30	ppm	97
17) 1,3-Diclbenzene	4.742	146	356827	122.19	ppm	99
18) 1,4-Dichlorobenzene	4.806	146	372026	122.85	ppm	97
19) 1,2-Diclbenzene	4.940	146	354007	122.28	ppm	98
20) Benzyl Alcohol	4.902	79	256163	129.84	ppm	97
21) 1-Methyl-2-pyrrolidinone	4.961	99	247217	124.14	ppm	96
22) 2,2'-oxybis(1-Chloropr...	5.015	45	437018	120.68	ppm	98
23) 2-Methylphenol	5.015	108	304979	122.12	ppm	95
24) 3+4-Methylphenol	5.148	108	329326	125.18	ppm	88
25) Acetophenone	5.143	105	523825	122.75	ppm	97
26) N-Nitroso-Di-n-propyla...	5.143	70	277668	123.26	ppm	94
27) N-Nitrosopyrrolidine	5.143	100	199840	125.54	ppm #	59
28) N-Nitrosomorpholine	5.170	56	209606	119.17	ppm	96
29) o-Toluidine	5.175	106	552782	124.11	ppm	84
30) Hexachloroethane	5.239	117	152233	125.98	ppm	96
31) o,o,o-Triethylphosphor...	5.678	198	162513	121.99	ppm	94
32) Alpha-terpinol	5.972	121	137190	126.98	ppm	99
35) Nitrobenzene	5.304	77	329396	122.06	ppm	88
36) N-Nitrosopiperidine	5.443	42	220660	117.69	ppm	96
37) Isophorone	5.517	82	638188	119.36	ppm	99
38) 2-Nitrophenol	5.592	139	169490	138.21	ppm	96

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\5973D\Data\072816\
Data File : BH249.D
Acq On : 28 Jul 2016 5:28 pm
Operator : J.Misiurewicz
Sample : 120 ppm STD Inst : 5973D
Misc : Initial Calibration 8270D/625
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jul 29 07:55:00 2016
Quant Method : I:\ACQUDATA\5973D\Methods\8270072816.M
Quant Title : 8270 BNA ANALYSIS
QLast Update : Fri Jul 29 07:31:03 2016
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
39)	Benzoic Acid	5.747	105	158163	139.39	ppm		89
40)	2,4-Dimethylphenol	5.630	107	334210	121.69	ppm		99
41)	bis(-2-Chloroethoxy)Me...	5.710	93	402414	118.43	ppm		96
42)	2,4-Dichlorophenol	5.828	162	274341	125.57	ppm		99
43)	a,a-Dimethylphenethyla...	5.977	58	945555	125.19	ppm		94
44)	1,2,4-Trichlorobenzene	5.892	180	307688	120.45	ppm		97
45)	Naphthalene	5.972	128	987176	115.67	ppm		99
46)	4-Chloroaniline	6.026	127	449739	123.60	ppm		99
47)	2,6-Dichlorophenol	6.031	162	278034	121.66	ppm		94
48)	Hexachlorobutadiene	6.079	225	166730	119.62	ppm		100
49)	Hexachloropropene	6.052	213	206312	124.25	ppm		99
50)	4-Chloro-3-methylphenol	6.496	107	291725	125.79	ppm		96
51)	N-N-di-n-butylamine	6.336	84	246652	110.11	ppm		97
52)	Caprolactam	6.389	113	117364	120.08	ppm		97
53)	p-Phenylenediamine	6.379	80	33866	102.28	ppm		96
54)	Safrole	6.544	162	246886	120.17	ppm		97
55)	2-Methylnaphthalene	6.635	142	655584	120.62	ppm		99
56)	1-Methylnaphthalene	6.732	142	622326	120.78	ppm		99
58)	Hexachlorocyclopentadiene	6.785	237	142879	119.63	ppm		95
59)	1,2,4,5-Tetrachloroben...	6.796	216	292781	120.13	ppm		99
60)	1,2,3,4-Tetrachloroben...	7.074	216	315128	121.83	ppm		98
61)	2,4,6-Trichlorophenol	6.913	196	197183	126.16	ppm		97
62)	2,4,5-Trichlorophenol	6.962	196	201240	127.97	ppm		100
64)	Isosafrole	7.053	104	136970	119.69	ppm		98
65)	1,1'-Biphenyl	7.090	154	884698	121.40	ppm		98
66)	2-Chloronaphthalene	7.111	162	664813	120.17	ppm		99
67)	2-Nitroaniline	7.218	65	188841	131.03	ppm		88
68)	1,4-Naphthoquinone	7.293	158	125868	114.37	ppm		94
69)	m-Dinitrobenzene	7.432	168	107555	122.38	ppm		91
70)	Acenaphthylene	7.518	152	1024861	120.99	ppm		100
71)	Dimethyl phthalate	7.395	163	688438	120.53	ppm		99
72)	2,6-Dinitrotoluene	7.454	165	149765	132.95	ppm		91
73)	Acenaphthene	7.689	153	668674	119.53	ppm		98
74)	3-Nitroaniline	7.625	138	198725	133.21	ppm		96
75)	2,4-Dinitrophenol	7.737	184	48358	121.34	ppm		92
76)	Dibenzofuran	7.860	168	889377	118.24	ppm		97
77)	2,4-Dinitrotoluene	7.855	165	198191	121.67	ppm		97
78)	4-Nitrophenol	7.812	65	114315	130.29	ppm		92
79)	Pentachlorobenzene	7.817	250	255729	120.82	ppm		99
80)	1-Napthylamine	7.940	143	640195	114.99	ppm		97
81)	2-Napthylamine	8.021	143	693173	117.47	ppm		99
82)	2,3,4,6-Tetrachlorophenol	7.983	232	146104	132.53	ppm		93
83)	Fluorene	8.197	166	731490	118.30	ppm		98
84)	4-Chlorophenyl-phenyle...	8.192	204	339770	120.78	ppm		98
85)	Diethylphthalate	8.079	149	712819	119.45	ppm		100
86)	4-Nitroaniline	8.235	138	215022	133.52	ppm		98
87)	5-Nitro-o-toluidine	8.219	152	221750	134.28	ppm		94
89)	Sulfotepp	8.459	322	98860	127.41	ppm		89
90)	Octachlorocyclopentene	8.438	307	106873	132.16	ppm		99
92)	Thionazin	8.165	107	135733	117.09	ppm		99
93)	4,6-Dinitro-2-methylph...	8.256	198	87866	120.80	ppm		96
94)	Diphenylamine	8.315	169	1241890	232.98	ppm		98
95)	1,2 Diphenylhydrazine	8.352	77	797675	116.01	ppm		94
96)	N-Nitrosodiphenylamine	8.315	169	1241890	232.98	ppm		98
97)	1,3,5-Trinirobenzene	8.609	213	43668	121.36	ppm	#	1
98)	Diallate	8.588	86	302512	115.38	ppm		96

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\5973D\Data\072816\
Data File : BH249.D
Acq On : 28 Jul 2016 5:28 pm
Operator : J.Misiurewicz
Sample : 120 ppm STD Inst : 5973D
Misc : Initial Calibration 8270D/625
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jul 29 07:55:00 2016
Quant Method : I:\ACQUDATA\5973D\Methods\8270072816.M
Quant Title : 8270 BNA ANALYSIS
QLast Update : Fri Jul 29 07:31:03 2016
Response via : Initial Calibration

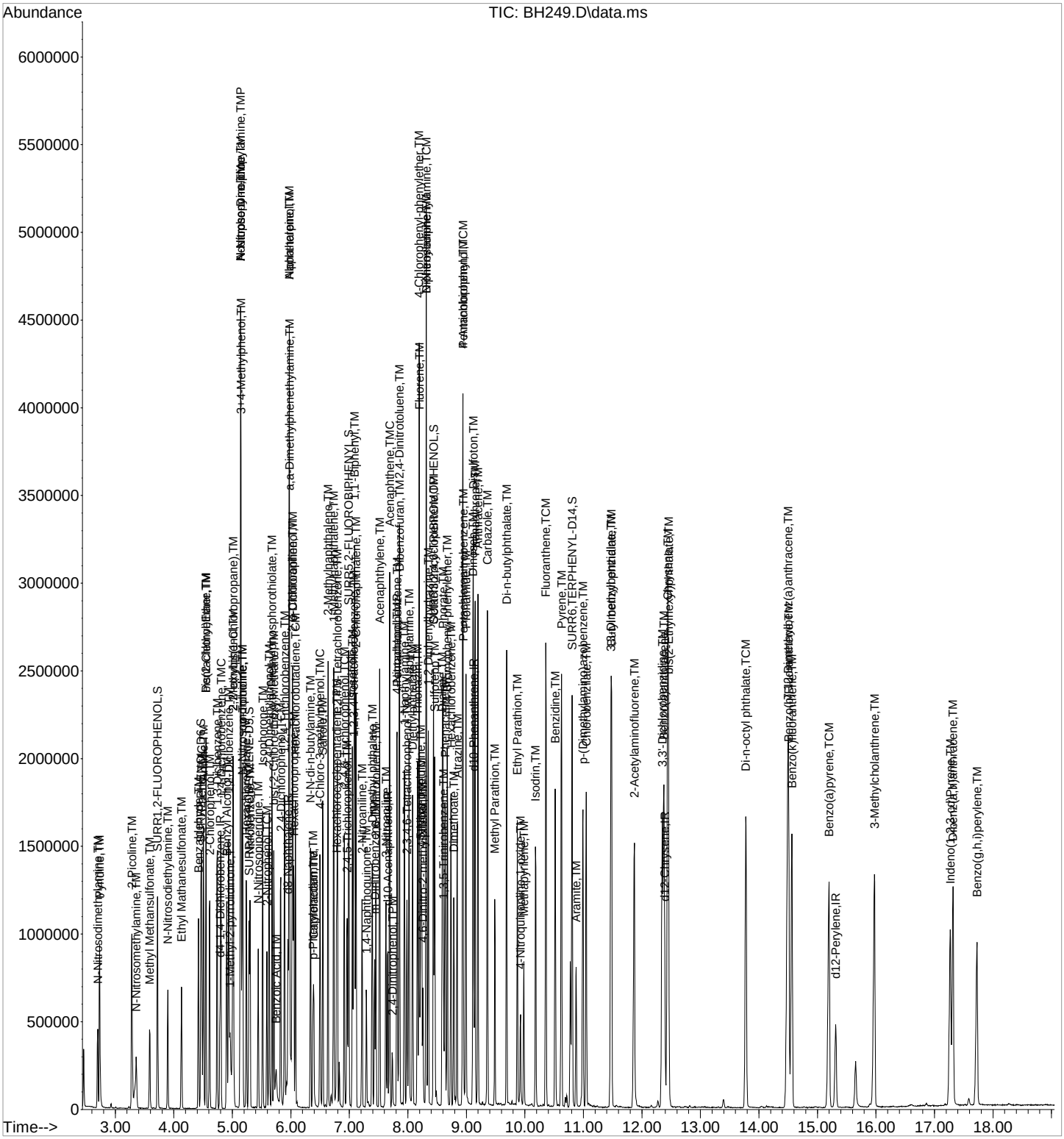
	Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
99)	Phorate	8.598	121	153960	119.75 ppm	94
100)	Phenacetin	8.636	108	417587	121.29 ppm	95
101)	4-Bromophenyl-phenylether	8.673	248	191084	118.47 ppm	96
102)	Hexachlorobenzene	8.737	284	215653	117.80 ppm	88
103)	Dimethoate	8.785	87	241381	106.47 ppm	97
104)	Atrazine	8.844	215	93596	124.59 ppm	99
105)	Pentachlorophenol	8.941	266	103189	134.84 ppm	99
106)	4-Aminobiphenyl	8.941	169	781326	122.79 ppm	99
107)	Pentachloronitrobenzene	8.946	237	85528	134.91 ppm	98
108)	Pronamide	8.994	173	370037	125.82 ppm	98
109)	Dinoseb	9.112	211	111537	128.82 ppm	97
110)	Disulfoton	9.117	88	381750	113.72 ppm	100
111)	Phenanthrene	9.149	178	1018461	118.64 ppm	99
112)	Anthracene	9.197	178	1035988	120.40 ppm	99
113)	Carbazole	9.358	167	1099908	120.54 ppm	99
114)	Di-n-butylphthalate	9.689	149	1277669	124.11 ppm	100
115)	4-Nitroquinonline-1-oxide	9.925	190	54482	128.49 ppm	90
116)	Fluoranthene	10.358	202	1116180	122.01 ppm	97
118)	Methyl Parathion	9.486	109	182015	127.71 ppm	98
119)	Ethyl Parathion	9.871	97	151405	119.19 ppm	92
120)	Methapyrilene	9.984	58	228618	95.52 ppm	96
121)	Isodrin	10.181	193	108816	126.19 ppm	96
122)	Benzidine	10.518	184	739583	120.02 ppm	98
123)	Pyrene	10.625	202	1149823	121.53 ppm	100
125)	Aramite	10.877	185	144992m	221.97 ppm	
126)	p-(Dimethylamino)azobe...	10.994	120	358620	126.13 ppm	93
127)	Chlorobenzilate	11.048	139	391711	121.69 ppm	89
128)	Butyl benzyl phthalate	11.481	149	583493	122.09 ppm	100
129)	3,3-Dimethylbenzidine	11.470	212	748998	122.06 ppm	98
130)	2-Acetylaminofluorene	11.872	181	525317	129.16 ppm	96
131)	3,3'-Dichlorobenzidine	12.348	252	422330	126.00 ppm	98
132)	Benzo(a)anthracene	12.374	228	1030553	120.87 ppm	100
133)	Chrysene	12.439	228	974434	119.55 ppm	98
134)	bis(2-Ethylhexyl)phtha...	12.455	149	850516	124.84 ppm	99
136)	Di-n-octyl phthalate	13.776	149	1432192	127.39 ppm	98
137)	7,12-Dimethylbenz(a)an...	14.498	256	521414	126.11 ppm	94
138)	Benzo(b)Fluoranthene	14.509	252	1033582	125.23 ppm	96
139)	Benzo(k)fluoranthene	14.562	252	953433	124.08 ppm	99
140)	Benzo(a)pyrene	15.198	252	897774	126.64 ppm	100
141)	3-Methylcholanthrene	15.974	268	532108	127.54 ppm	95
142)	Indeno(1,2,3-cd)Pyrene	17.268	276	668809	119.41 ppm	98
143)	Dibenz(a,h)anthracene	17.317	278	776652	121.33 ppm	99
144)	Benzo(g,h,i)perylene	17.728	276	621144	110.63 ppm	98

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

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\5973D\Data\072816\
Data File : BH249.D
Acq On : 28 Jul 2016 5:28 pm
Operator : J.Misiurewicz
Sample : 120 ppm STD Inst : 5973D
Misc : Initial Calibration 8270D/625
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jul 29 07:55:00 2016
Quant Method : I:\ACQUDATA\5973D\Methods\8270072816.M
Quant Title : 8270 BNA ANALYSIS
QLast Update : Fri Jul 29 07:31:03 2016
Response via : Initial Calibration

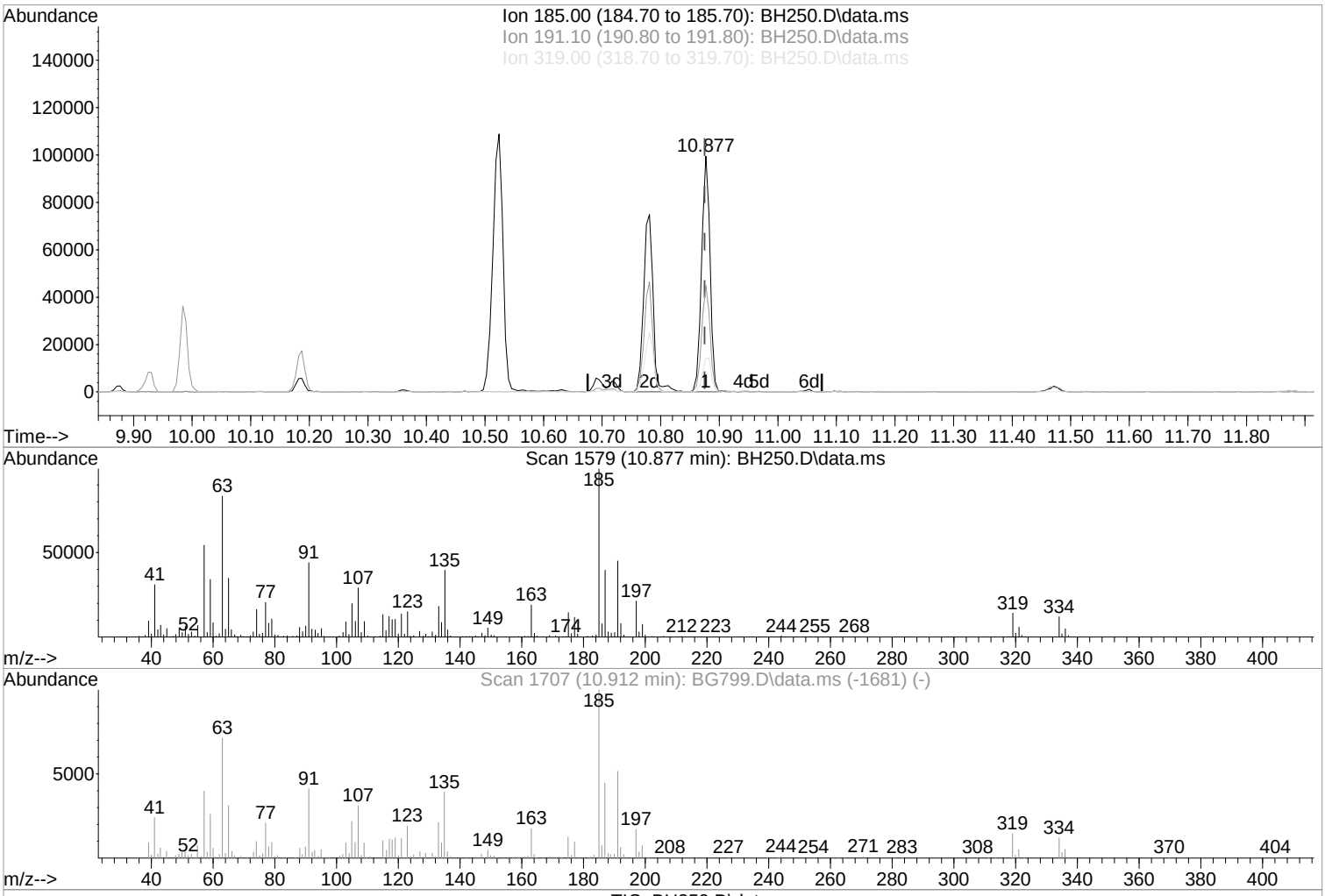


1st DM 07/29/16
2nd MW 07/29/16

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\5973D\Data\072816\
Data File : BH250.D
Acq On : 28 Jul 2016 5:55 pm
Operator : J.Misiurewicz
Sample : 160 ppm STD Inst : 5973D
Misc : Initial Calibration 8270D/625
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jul 29 07:55:37 2016
Quant Method : I:\ACQUDATA\5973D\Methods\8270072816.M
Quant Title : 8270 BNA ANALYSIS
QLast Update : Fri Jul 29 07:31:03 2016
Response via : Initial Calibration



TIC: BH250.D\data.ms

(125) Aramite (TM)

10.877min (+0.002) 297.06 ppm m

response 185894

Ion	Exp%	Act%
185.00	100	100
191.10	48.70	45.14
319.00	15.90	14.19
0.00	0.00	0.00

Manual Integration:

After

Split Peak

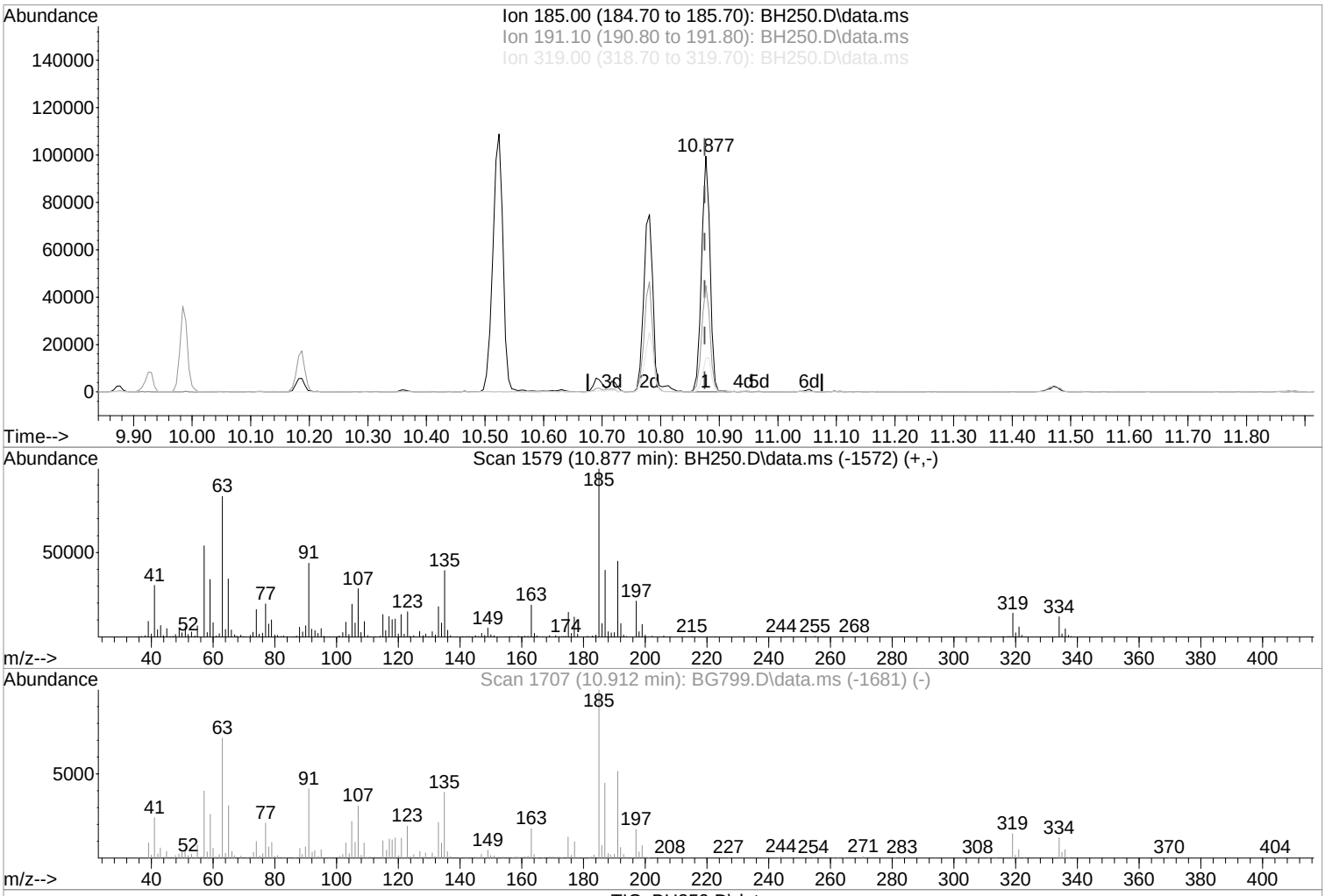
07/29/16

1st DM 07/29/16
2nd MW 07/29/16

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\5973D\Data\072816\
Data File : BH250.D
Acq On : 28 Jul 2016 5:55 pm
Operator : J.Misiurewicz
Sample : 160 ppm STD Inst : 5973D
Misc : Initial Calibration 8270D/625
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jul 29 07:55:37 2016
Quant Method : I:\ACQUDATA\5973D\Methods\8270072816.M
Quant Title : 8270 BNA ANALYSIS
QLast Update : Fri Jul 29 07:31:03 2016
Response via : Initial Calibration



(125) Aramite (TM)

10.877min (+0.002) 160.77 ppm

response 100603

Ion	Exp%	Act%
185.00	100	100
191.10	48.70	44.98
319.00	15.90	14.19
0.00	0.00	0.00

Manual Integration:

Before

07/29/16

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\5973D\Data\072816\
Data File : BH250.D
Acq On : 28 Jul 2016 5:55 pm
Operator : J.Misiurewicz
Sample : 160 ppm STD Inst : 5973D
Misc : Initial Calibration 8270D/625
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jul 29 07:56:41 2016
Quant Method : I:\ACQUDATA\5973D\Methods\8270072816.M
Quant Title : 8270 BNA ANALYSIS
QLast Update : Fri Jul 29 07:31:03 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) d4-1,4-Dichlorobenzene	4.790	152	77127	40.00	ppm	0.00
33) d8-Naphthalene	5.951	136	341289	40.00	ppm	0.00
57) d10-Acenaphthene	7.657	164	191842	40.00	ppm	0.00
91) d10-Phenanthrene	9.123	188	324716	40.00	ppm	0.00
117) d12-Chrysene	12.396	240	287134	40.00	ppm	0.00
135) d12-Perylene	15.316	264	272511	40.00	ppm	0.00
System Monitoring Compounds						
7) SURR1,2-FLUOROPHENOL	3.721	112	479802	165.58	ppm	0.00
Spiked Amount 200.000	Range 10 - 105		Recovery = 82.79%			
12) SURR2,PHENOL-D6	4.464	99	567318	168.72	ppm	0.00
Spiked Amount 200.000	Range 10 - 107		Recovery = 84.36%			
34) SURR4,NITROBENZENE-D5	5.288	82	475602	176.36	ppm	0.00
Spiked Amount 100.000	Range 31 - 110		Recovery = 176.36%#			
63) SURR5,2-FLUOROBIPHENYL	6.994	172	992381	161.55	ppm	0.00
Spiked Amount 100.000	Range 31 - 118		Recovery = 161.55%#			
88) SURR3,2,4,6-TRIBROMOPH...	8.438	330	134265	183.58	ppm	0.00
Spiked Amount 200.000	Range 35 - 141		Recovery = 91.79%			
124) SURR6,TERPHENYL-D14	10.807	244	988532	167.53	ppm	0.00
Spiked Amount 100.000	Range 30 - 133		Recovery = 167.53%#			
Target Compounds						Qvalue
2) Pyridine	2.731	79	483645	157.98	ppm	99
3) N-Nitrosodimethylamine	2.699	74	285648	161.99	ppm	99
4) 2-Picoline	3.282	93	488609	160.24	ppm	99
5) N-Nitrosomethylamine	3.357	42	223553	141.16	ppm	96
6) Methyl Methansulfonate	3.592	80	226327	159.86	ppm	94
8) N-Nitrosodiethylamine	3.897	102	196594	163.34	ppm	95
9) Ethyl Mathanesulfonate	4.132	79	362107	159.74	ppm	98
11) Aniline	4.507	93	812145	166.41	ppm	99
13) Phenol	4.480	94	554522	163.01	ppm	87
14) bis(2-Clethyl)Ether	4.550	93	422528	160.50	ppm	99
15) Pentachloroethane	4.550	117	153501	160.85	ppm	95
16) 2-Chlorophenol	4.614	128	447965	163.33	ppm	95
17) 1,3-Diclbenzene	4.742	146	483980	161.39	ppm	98
18) 1,4-Dichlorobenzene	4.806	146	489135	157.28	ppm	98
19) 1,2-Diclbenzene	4.940	146	472270	158.85	ppm	98
20) Benzyl Alcohol	4.908	79	336536	166.10	ppm	98
21) 1-Methyl-2-pyrrolidinone	4.972	99	329392	161.06	ppm	97
22) 2,2'-oxybis(1-Chloropr...	5.015	45	589712	158.57	ppm	92
23) 2-Methylphenol	5.020	108	417286	162.71	ppm	93
24) 3+4-Methylphenol	5.154	108	486761	180.16	ppm	99
25) Acetophenone	5.149	105	709240	161.83	ppm	99
26) N-Nitroso-Di-n-propyla...	5.149	70	376573	162.78	ppm	94
27) N-Nitrosopyrrolidine	5.149	100	273427	167.26	ppm #	63
28) N-Nitrosomorpholine	5.175	56	283103	156.74	ppm	94
29) o-Toluidine	5.181	106	744813	162.84	ppm	83
30) Hexachloroethane	5.240	117	201647	162.50	ppm	94
31) o,o,o-Triethylphosphor...	5.684	198	215949	157.84	ppm	94
32) Alpha-terpinol	5.978	121	180650	162.82	ppm	93
35) Nitrobenzene	5.304	77	451057	168.89	ppm	92
36) N-Nitrosopiperidine	5.448	42	296840	159.97	ppm	92
37) Isophorone	5.523	82	846196	159.92	ppm	98
38) 2-Nitrophenol	5.593	139	233264	192.19	ppm	95
39) Benzoic Acid	5.758	105	176637	157.29	ppm	89

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\5973D\Data\072816\
Data File : BH250.D
Acq On : 28 Jul 2016 5:55 pm
Operator : J.Misiurewicz
Sample : 160 ppm STD Inst : 5973D
Misc : Initial Calibration 8270D/625
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jul 29 07:56:41 2016
Quant Method : I:\ACQUDATA\5973D\Methods\8270072816.M
Quant Title : 8270 BNA ANALYSIS
QLast Update : Fri Jul 29 07:31:03 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
40) 2,4-Dimethylphenol	5.635	107	437266	160.88	ppm		99
41) bis(-2-Chloroethoxy)Me...	5.716	93	546227	162.43	ppm		98
42) 2,4-Dichlorophenol	5.828	162	360213	166.60	ppm		97
43) a,a-Dimethylphenethyla...	6.031	58	1308808	175.10	ppm		94
44) 1,2,4-Trichlorobenzene	5.897	180	407363	161.13	ppm		96
45) Naphthalene	5.972	128	1314321	155.61	ppm		99
46) 4-Chloroaniline	6.031	127	583586	162.06	ppm		99
47) 2,6-Dichlorophenol	6.037	162	364618	161.21	ppm		98
48) Hexachlorobutadiene	6.079	225	222285	161.15	ppm		98
49) Hexachloropropene	6.053	213	273983	166.73	ppm		96
50) 4-Chloro-3-methylphenol	6.502	107	388067	169.07	ppm		95
51) N-N-di-n-butylamine	6.341	84	322391	145.42	ppm		95
52) Caprolactam	6.406	113	156416	161.70	ppm		98
53) p-Phenylenediamine	6.384	80	39533	120.64	ppm		97
54) Safrole	6.550	162	329405	162.01	ppm		95
55) 2-Methylnaphthalene	6.636	142	877996	163.23	ppm		98
56) 1-Methylnaphthalene	6.737	142	820698	160.94	ppm		99
58) Hexachlorocyclopentadiene	6.785	237	199397	156.40	ppm		98
59) 1,2,4,5-Tetrachloroben...	6.801	216	395350	165.54	ppm		96
60) 1,2,3,4-Tetrachloroben...	7.080	216	418015	164.91	ppm		98
61) 2,4,6-Trichlorophenol	6.919	196	266593	174.05	ppm		97
62) 2,4,5-Trichlorophenol	6.962	196	265926	172.56	ppm		96
64) Isosafrole	7.053	104	182239	162.50	ppm		97
65) 1,1'-Biphenyl	7.096	154	1157204	162.04	ppm		99
66) 2-Chloronaphthalene	7.117	162	865862	159.72	ppm		97
67) 2-Nitroaniline	7.219	65	258406	182.97	ppm		93
68) 1,4-Naphthoquinone	7.293	158	159068	147.50	ppm		95
69) m-Dinitrobenzene	7.438	168	151372	158.67	ppm	#	75
70) Acenaphthylene	7.523	152	1334204	160.74	ppm		100
71) Dimethyl phthalate	7.395	163	908151	162.25	ppm		99
72) 2,6-Dinitrotoluene	7.459	165	204904	185.62	ppm		97
73) Acenaphthene	7.689	153	884145	161.28	ppm		97
74) 3-Nitroaniline	7.630	138	276598	189.20	ppm		97
75) 2,4-Dinitrophenol	7.737	184	70867	159.22	ppm		87
76) Dibenzofuran	7.860	168	1166679	158.28	ppm		97
77) 2,4-Dinitrotoluene	7.860	165	270018	155.92	ppm		97
78) 4-Nitrophenol	7.818	65	151349	176.03	ppm		96
79) Pentachlorobenzene	7.818	250	334083	161.07	ppm		98
80) 1-Napthylamine	7.946	143	860700	157.75	ppm		97
81) 2-Napthylamine	8.026	143	915973	158.40	ppm		100
82) 2,3,4,6-Tetrachlorophenol	7.989	232	200692	185.77	ppm		97
83) Fluorene	8.197	166	954238	157.48	ppm		98
84) 4-Chlorophenyl-phenyle...	8.192	204	437570	158.73	ppm		92
85) Diethylphthalate	8.085	149	955869	163.46	ppm		99
86) 4-Nitroaniline	8.246	138	297280	188.38	ppm		96
87) 5-Nitro-o-toluidine	8.224	152	306823	189.59	ppm		95
89) Sulfotepp	8.465	322	137169	180.41	ppm		98
90) Octachlorocyclopentene	8.443	307	145054	183.05	ppm		97
92) Thionazin	8.171	107	189765	163.59	ppm		99
93) 4,6-Dinitro-2-methylph...	8.262	198	126103	157.04	ppm		95
94) Diphenylamine	8.320	169	1689545	316.74	ppm		98
95) 1,2 Diphenylhydrazine	8.352	77	1060704	154.15	ppm		99
96) N-Nitrosodiphenylamine	8.320	169	1689545	316.74	ppm		98
97) 1,3,5-Trinirobenzene	8.620	213	64765	156.46	ppm	#	1
98) Diallate	8.593	86	412375	157.17	ppm		97
99) Phorate	8.604	121	215016	167.13	ppm		88

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\5973D\Data\072816\
Data File : BH250.D
Acq On : 28 Jul 2016 5:55 pm
Operator : J.Misiurewicz
Sample : 160 ppm STD Inst : 5973D
Misc : Initial Calibration 8270D/625
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jul 29 07:56:41 2016
Quant Method : I:\ACQUDATA\5973D\Methods\8270072816.M
Quant Title : 8270 BNA ANALYSIS
QLast Update : Fri Jul 29 07:31:03 2016
Response via : Initial Calibration

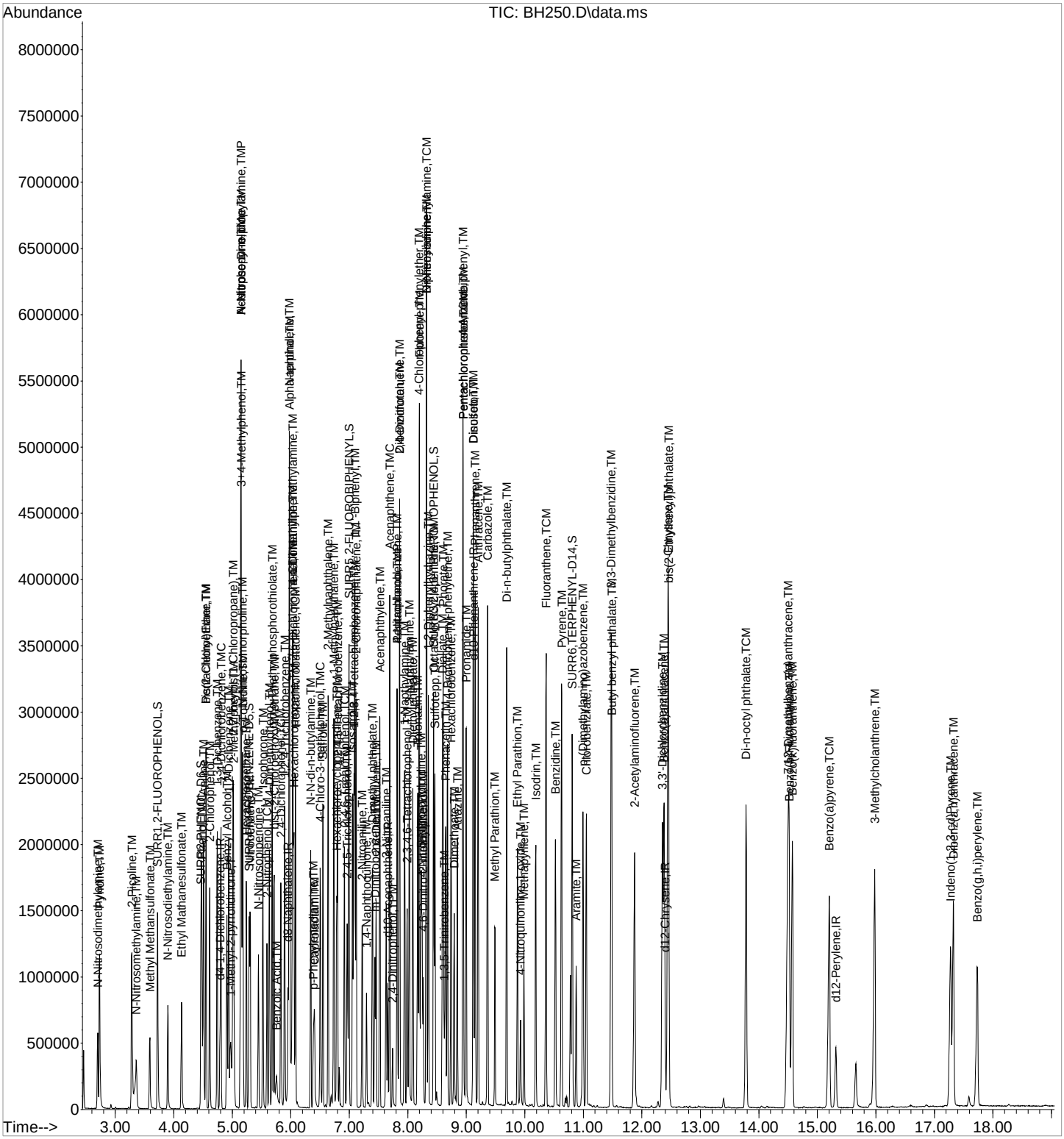
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
100) Phenacetin	8.647	108	546594	158.65 ppm	94
101) 4-Bromophenyl-phenylether	8.679	248	258528	160.17 ppm	96
102) Hexachlorobenzene	8.738	284	292195	159.50 ppm	93
103) Dimethoate	8.791	87	301957	133.10 ppm	98
104) Atrazine	8.850	215	122271	162.65 ppm	95
105) Pentachlorophenol	8.946	266	140486	183.46 ppm	98
106) 4-Aminobiphenyl	8.941	169	1047377	164.49 ppm	99
107) Pentachloronitrobenzene	8.946	237	113761	179.32 ppm	95
108) Pronamide	9.000	173	492791	167.44 ppm	98
109) Dinoseb	9.117	211	163451	188.65 ppm	95
110) Disulfoton	9.117	88	523522	155.85 ppm	97
111) Phenanthrene	9.149	178	1359779	158.29 ppm	98
112) Anthracene	9.203	178	1395411	162.06 ppm	99
113) Carbazole	9.363	167	1461192	160.03 ppm	97
114) Di-n-butylphthalate	9.690	149	1664510	161.57 ppm	99
115) 4-Nitroquinonline-1-oxide	9.925	190	72104	169.94 ppm	92
116) Fluoranthene	10.364	202	1456972	159.15 ppm	99
118) Methyl Parathion	9.486	109	238884	174.95 ppm	95
119) Ethyl Parathion	9.871	97	204947	157.88 ppm	92
120) Methapyrilene	9.984	58	316077	137.85 ppm	97
121) Isodrin	10.187	193	140605	170.20 ppm	90
122) Benzidine	10.524	184	933490	158.12 ppm	98
123) Pyrene	10.631	202	1488916	164.26 ppm	99
125) Aramite	10.877	185	185894m	297.06 ppm	
126) p-(Dimethylamino)azobe...	10.995	120	473385	173.80 ppm	95
127) Chlorobenzilate	11.048	139	521741	169.20 ppm	88
128) Butyl benzyl phthalate	11.487	149	765044	167.09 ppm	97
129) 3,3-Dimethylbenzidine	11.476	212	970497	165.10 ppm	98
130) 2-Acetylaminofluorene	11.877	181	691934	177.59 ppm	97
131) 3,3'-Dichlorobenzidine	12.348	252	549699	171.19 ppm	100
132) Benzo(a)anthracene	12.375	228	1353332	165.69 ppm	99
133) Chrysene	12.444	228	1293136	165.61 ppm	99
134) bis(2-Ethylhexyl)phtha...	12.455	149	1104081	169.17 ppm	99
136) Di-n-octyl phthalate	13.781	149	1885517	176.20 ppm	99
137) 7,12-Dimethylbenz(a)an...	14.498	256	683493	173.68 ppm	99
138) Benzo(b)Fluoranthene	14.519	252	1391110	177.08 ppm	98
139) Benzo(k)fluoranthene	14.573	252	1226569	167.70 ppm	99
140) Benzo(a)pyrene	15.204	252	1164300	172.55 ppm	98
141) 3-Methylcholanthrene	15.980	268	707900	178.26 ppm	99
142) Indeno(1,2,3-cd)Pyrene	17.274	276	860525	161.42 ppm	98
143) Dibenz(a,h)anthracene	17.328	278	993961	163.14 ppm	98
144) Benzo(g,h,i)perylene	17.734	276	772124	144.48 ppm	99

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

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\5973D\Data\072816\
Data File : BH250.D
Acq On : 28 Jul 2016 5:55 pm
Operator : J.Misiurewicz
Sample : 160 ppm STD Inst : 5973D
Misc : Initial Calibration 8270D/625
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jul 29 07:56:41 2016
Quant Method : I:\ACQUDATA\5973D\Methods\8270072816.M
Quant Title : 8270 BNA ANALYSIS
QLast Update : Fri Jul 29 07:31:03 2016
Response via : Initial Calibration

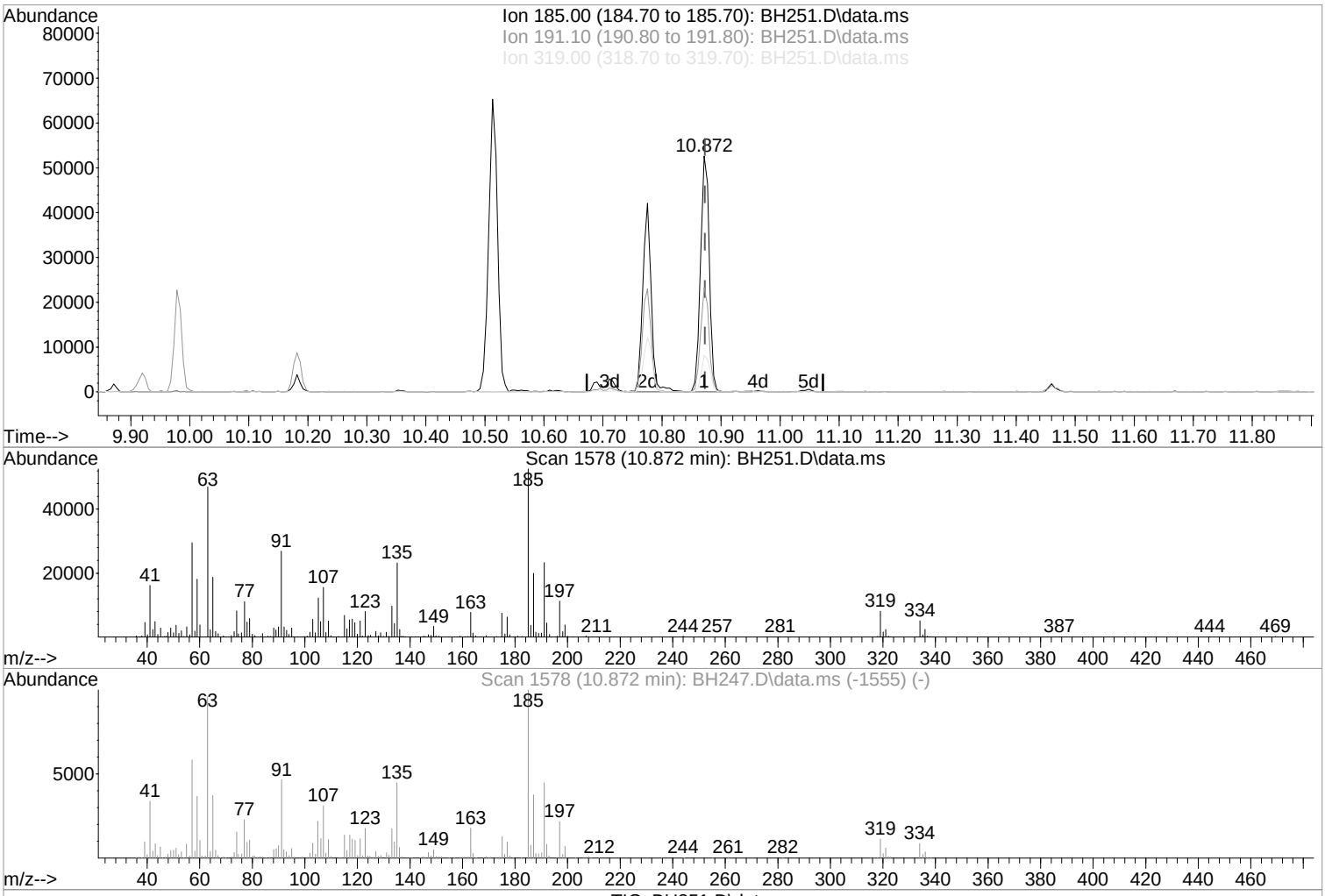


1st DM 07/29/16
2nd MW 07/29/16

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\5973D\Data\072816\
Data File : BH251.D
Acq On : 28 Jul 2016 6:22 pm
Operator : J.Misiurewicz
Sample : ICV #1 Inst : 5973D
Misc : Initial Calibration 8270D/625
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jul 29 09:29:04 2016
Quant Method : I:\ACQUDATA\5973D\Methods\8270072816.M
Quant Title : 8270 BNA ANALYSIS
QLast Update : Fri Jul 29 08:17:04 2016
Response via : Initial Calibration



(125) Aramite (TM)

10.872min (-0.001) 79.00 ppm m

response 96120

Ion	Exp%	Act%
185.00	100	100
191.10	44.70	44.29
319.00	11.30	15.49
0.00	0.00	0.00

Manual Integration:

After

Split Peak

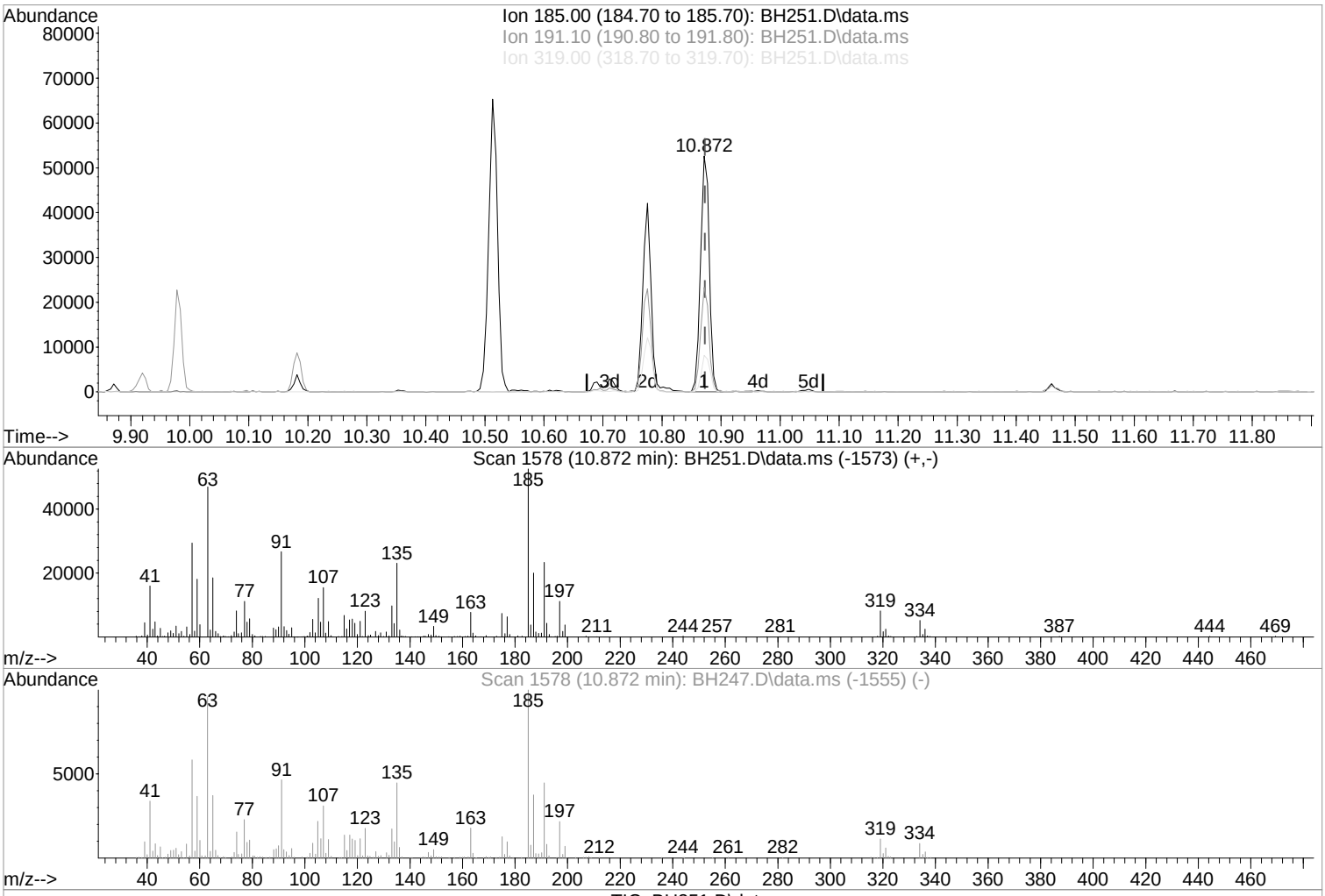
07/29/16

1st DM 07/29/16
2nd MW 07/29/16

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\5973D\Data\072816\
Data File : BH251.D
Acq On : 28 Jul 2016 6:22 pm
Operator : J.Misiurewicz
Sample : ICV #1 Inst : 5973D
Misc : Initial Calibration 8270D/625
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jul 29 09:29:04 2016
Quant Method : I:\ACQUDATA\5973D\Methods\8270072816.M
Quant Title : 8270 BNA ANALYSIS
QLast Update : Fri Jul 29 08:17:04 2016
Response via : Initial Calibration



TIC: BH251.D\data.ms

(125) Aramite (TM)

10.872min (-0.001) 44.31 ppm

response 53915

Ion	Exp%	Act%
185.00	100	100
191.10	44.70	44.29
319.00	11.30	15.49
0.00	0.00	0.00

Manual Integration:

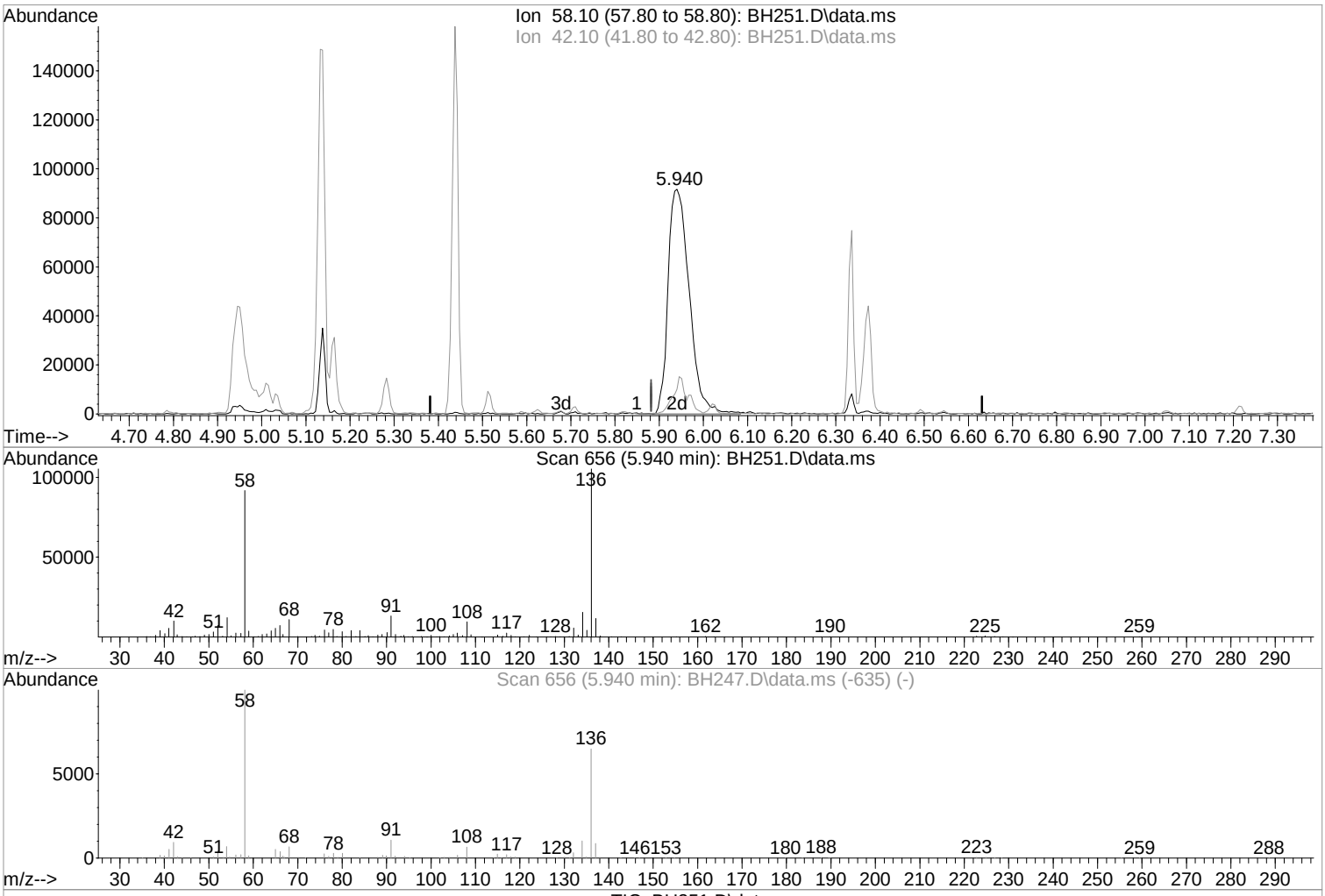
Before

07/29/16

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\5973D\Data\072816\
Data File : BH251.D
Acq On : 28 Jul 2016 6:22 pm
Operator : J.Misiurewicz
Sample : ICV #1 Inst : 5973D
Misc : Initial Calibration 8270D/625
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jul 29 09:29:04 2016
Quant Method : I:\ACQUDATA\5973D\Methods\8270072816.M
Quant Title : 8270 BNA ANALYSIS
QLast Update : Fri Jul 29 08:17:04 2016
Response via : Initial Calibration



(43) a,a-Dimethylphenethylamine (TM)

5.940min (+0.059) 39.80 ppm m

response 305061

Ion	Exp%	Act%
58.10	100	100
42.10	9.50	10.96
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

Peak not found.

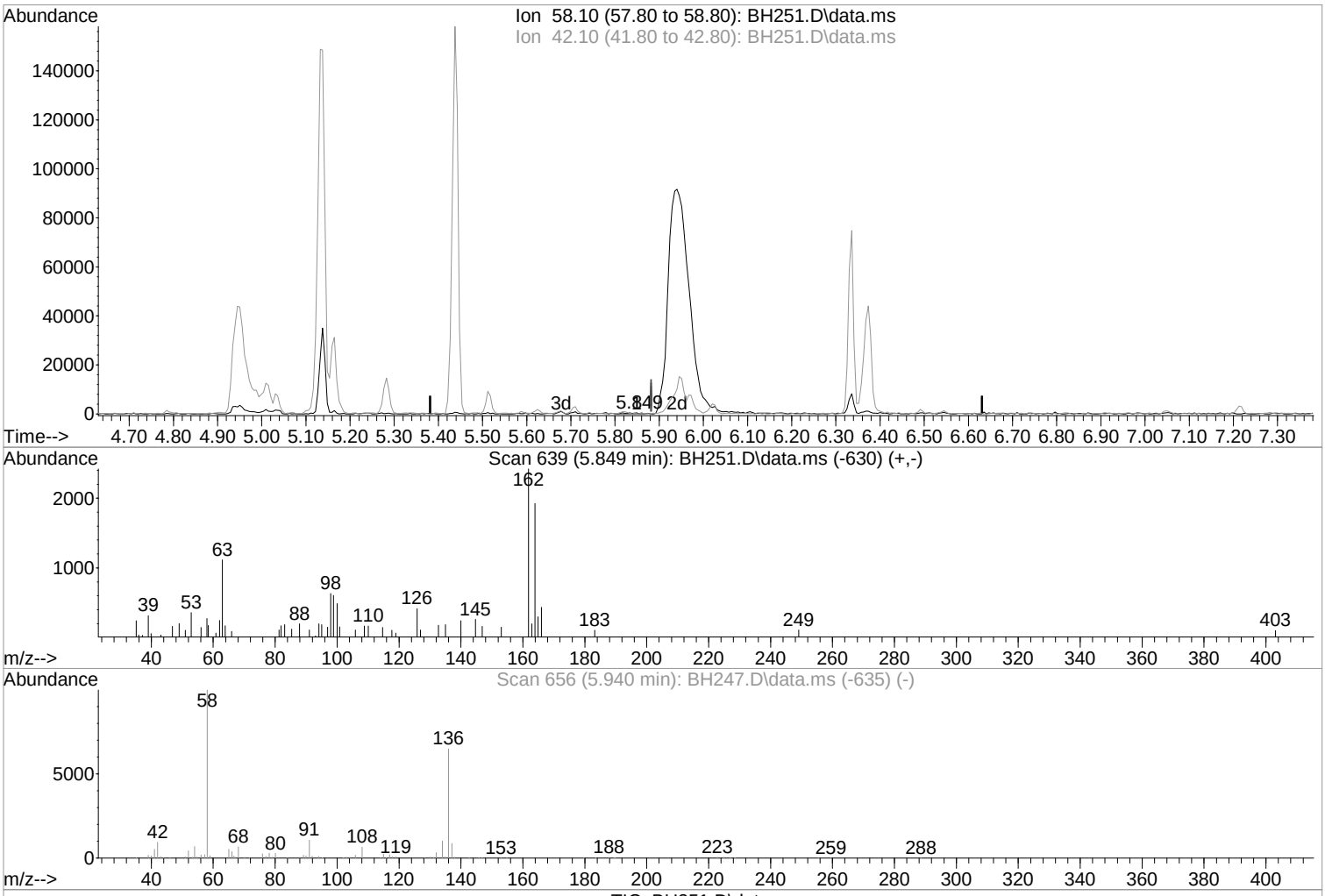
07/29/16

1st DM 07/29/16
2nd MW 07/29/16

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\5973D\Data\072816\
Data File : BH251.D
Acq On : 28 Jul 2016 6:22 pm
Operator : J.Misiurewicz
Sample : ICV #1 Inst : 5973D
Misc : Initial Calibration 8270D/625
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jul 29 09:29:04 2016
Quant Method : I:\ACQUDATA\5973D\Methods\8270072816.M
Quant Title : 8270 BNA ANALYSIS
QLast Update : Fri Jul 29 08:17:04 2016
Response via : Initial Calibration



(43) a,a-Dimethylphenethylamine (TM)

5.849min (-0.032) 0.11 ppm

response 864

Ion	Exp%	Act%
58.10	100	100
42.10	9.50	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

Before

07/29/16

1st DM 07/29/16
2nd MWC 07/29/16

Evaluate Continuing Calibration Report

Data Path : I:\ACQUDATA\5973D\Data\072816\
Data File : BH251.D
Acq On : 28 Jul 2016 6:22 pm
Operator : J.Misiurewicz
Sample : ICV #1 Inst : 5973D
Misc : Initial Calibration 8270D/625
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jul 29 09:30:26 2016
Quant Method : I:\ACQUDATA\5973D\Methods\8270072816.M
Quant Title : 8270 BNA ANALYSIS
QLast Update : Fri Jul 29 08:17:04 2016
Response via : Initial Calibration

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

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	IR	d4-1,4-Dichlorobenzene	40.000	40.000	0.0	100	0.00
2	TM	Pyridine	80.000	73.939	7.6	94	0.00
3	TM	N-Nitrosodimethylamine	80.000	69.082	13.6	87	0.00
4	TM	2-Picoline	80.000	76.183	4.8	95	0.00
5	TM	N-Nitrosomethylamine	80.000	66.543	16.8	89	0.00
6	TM	Methyl Methansulfonate	80.000	85.564	-7.0	109	0.00
7	S	SURR1,2-FLUOROPHENOL	80.000	78.127	2.3	97	0.00
8	TM	N-Nitrosodiethylamine	80.000	78.827	1.5	97	0.00
9	TM	Ethyl Mathanesulfonate	80.000	74.295	7.1	93	0.00
10	TM	Benzaldehyde	80.000	82.029	-2.5	106	0.00
11	TM	Aniline	80.000	77.639	3.0	97	0.00
12	S	SURR2,PHENOL-D6	80.000	80.863	-1.1	100	0.00
13	TMC	Phenol	80.000	79.776	0.3	101	0.00
14	TM	bis(2-Clethyl)Ether	80.000	84.273	-5.3	107	0.00
15	TM	Pentachloroethane	80.000	81.870	-2.3	105	0.00
16	TM	2-Chlorophenol	80.000	81.754	-2.2	100	0.00
17	TM	1,3-Diclbenzene	80.000	83.402	-4.3	104	0.00
18	TMC	1,4-Dichlorobenzene	80.000	80.887	-1.1	103	0.00
19	TM	1,2-Diclbenzene	80.000	79.750	0.3	99	0.00
20	TM	Benzyl Alcohol	80.000	86.101	-7.6	107	0.00
21	T	1-Methyl-2-pyrrolidinone	80.000	76.012	5.0	95	0.01
22	TM	2,2'-oxybis(1-Chloropropane	80.000	72.837	9.0	93	0.00
23	TM	2-Methylphenol	80.000	75.978	5.0	96	0.00
24	TM	3+4-Methylphenol	80.000	79.442	0.7	100	0.00
25	TM	Acetophenone	80.000	69.190	13.5	88	0.00
26	TMP	N-Nitroso-Di-n-propylamine	80.000	76.623	4.2	97	0.00
27	TM	N-Nitrosopyrrolidine	80.000	77.640	2.9	97	0.00
28	TM	N-Nitrosomorpholine	80.000	75.165	6.0	99	0.00
29	TM	o-Toluidine	80.000	76.437	4.5	97	0.00
30	TM	Hexachloroethane	80.000	81.888	-2.4	102	0.00
31	TM	o,o,o-Triethylphosphorothio	80.000	72.453	9.4	92	0.00
32	TM	Alpha-terpinol	80.000	80.579	-0.7	99	0.00
33	IR	d8-Naphthalene	40.000	40.000	0.0	99	0.00
34	S	SURR4,NITROBENZENE-D5	80.000	82.546	-3.2	103	0.00
35	TM	Nitrobenzene	80.000	81.396	-1.7	102	0.00
36	TM	N-Nitrosopiperidine	80.000	76.098	4.9	96	0.00
37	TM	Isophorone	80.000	78.419	2.0	100	0.00
38	TCM	2-Nitrophenol	80.000	85.380	-6.7	104	0.00
39	TM	Benzoic Acid	80.000	96.733	-20.9#	128	0.00
40	TM	2,4-Dimethylphenol	80.000	76.555	4.3	96	0.00
41	TM	bis(-2-Chloroethoxy)Methane	80.000	79.907	0.1	103	0.00
42	TCM	2,4-Dichlorophenol	80.000	80.948	-1.2	102	0.00
43	TM	a,a-Dimethylphenethylamine	40 ~~80.000~~	39.795	0.5 ~~50.3#~~	49	0.06
44	TM	1,2,4-Trichlorobenzene	80.000	79.163	1.0	103	0.00
45	TM	Naphthalene	80.000	74.001	7.5	96	0.00
46	TM	4-Chloroaniline	80.000	78.266	2.2	99	0.00
47	TM	2,6-Dichlorophenol	80.000	77.195	3.5	97	0.00
48	TCM	Hexachlorobutadiene	80.000	77.912	2.6	100	0.00
49	TM	Hexachloropropene	80.000	75.340	5.8	96	0.00
50	TMC	4-Chloro-3-methylphenol	80.000	81.418	-1.8	98	0.00
51	TM	N-N-di-n-butylamine	80.000	69.732	12.8	97	0.00

Evaluate Continuing Calibration Report

Data Path : I:\ACQUDATA\5973D\Data\072816\
Data File : BH251.D
Acq On : 28 Jul 2016 6:22 pm
Operator : J.Misiurewicz
Sample : ICV #1 Inst : 5973D
Misc : Initial Calibration 8270D/625
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jul 29 09:30:26 2016
Quant Method : I:\ACQUDATA\5973D\Methods\8270072816.M
Quant Title : 8270 BNA ANALYSIS
QLast Update : Fri Jul 29 08:17:04 2016
Response via : Initial Calibration

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

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
52	TM	Caprolactam	80.000	71.574	10.5	93	0.01
53	TM	p-Phenylenediamine	80.000	113.794	-42.2#	150	0.00
54	TM	Safrole	80.000	76.370	4.5	96	0.00
55	TM	2-Methylnaphthalene	80.000	80.085	-0.1	101	0.00
56	TM	1-Methylnaphthalene	80.000	77.200	3.5	99	0.00
57	IR	d10-Acenaphthene	40.000	40.000	0.0	102	0.00
58	TPM	Hexachlorocyclopentadiene	80.000	82.908	-3.6	101	0.00
59	TM	1,2,4,5-Tetrachlorobenzene	80.000	79.636	0.5	103	0.00
60	TM	1,2,3,4-Tetrachlorobenzene	80.000	72.266	9.7	90	0.00
61	TCM	2,4,6-Trichlorophenol	80.000	81.098	-1.4	94	0.00
62	TM	2,4,5-Trichlorophenol	80.000	81.911	-2.4	99	0.00
63	S	SURR5,2-FLUOROBIPHENYL	80.000	77.679	2.9	99	0.00
64	TM	Isosafrole	80.000	70.483	11.9	87	0.00
65	TM	1,1'-Biphenyl	80.000	75.535	5.6	95	0.00
66	TM	2-Chloronaphthalene	80.000	78.857	1.4	101	0.00
67	TM	2-Nitroaniline	80.000	79.245	0.9	91	0.00
68	TM	1,4-Naphthoquinone	80.000	119.907	-49.9#	144	0.00
69	TM	m-Dinitrobenzene	80.000	75.626	5.5	94	0.00
70	TM	Acenaphthylene	80.000	79.172	1.0	98	0.00
71	TM	Dimethyl phthalate	80.000	82.109	-2.6	105	0.00
72	TM	2,6-Dinitrotoluene	80.000	89.097	-11.4	106	0.00
73	TMC	Acenaphthene	80.000	77.969	2.5	98	0.00
74	TM	3-Nitroaniline	80.000	81.472	-1.8	98	0.00
75	TPM	2,4-Dinitrophenol	80.000	85.851	-7.3	109	0.00
76	TM	Dibenzofuran	80.000	79.380	0.8	100	0.00
77	TM	2,4-Dinitrotoluene	80.000	86.755	-8.4	108	0.00
78	TMP	4-Nitrophenol	80.000	80.181	-0.2	101	0.00
79	TM	Pentachlorobenzene	80.000	81.327	-1.7	101	0.00
80	TM	1-Napthylamine	80.000	68.911	13.9	90	0.00
81	TM	2-Napthylamine	80.000	73.095	8.6	93	0.00
82	TM	2,3,4,6-Tetrachlorophenol	80.000	82.074	-2.6	100	0.00
83	TM	Fluorene	80.000	79.349	0.8	101	0.00
84	TM	4-Chlorophenyl-phenylether	80.000	85.359	-6.7	108	0.00
85	TM	Diethylphthalate	80.000	83.265	-4.1	107	0.00
86	TM	4-Nitroaniline	80.000	82.328	-2.9	96	0.00
87	TM	5-Nitro-o-toluidine	80.000	85.310	-6.6	100	0.00
88	S	SURR3,2,4,6-TRIBROMOPHENOL	80.000	80.679	-0.8	97	0.00
89	TM	Sulfotepp	80.000	80.997	-1.2	97	0.00
90	TM	Octachlorocyclopentene	80.000	75.244	5.9	89	0.00
91	IR	d10-Phenanthrene	40.000	40.000	0.0	99	0.00
92	TM	Thionazin	80.000	72.054	9.9	93	0.00
93	TM	4,6-Dinitro-2-methylphenol	80.000	86.005	-7.5	108	0.00
94	TM	Diphenylamine	160.000	144.716	9.6	92	0.00
95	TM	1,2 Diphenylhydrazine	80.000	77.011	3.7	97	0.00
96	TCM	N-Nitrosodiphenylamine	160.000	144.716	9.6	92	0.00
97	TM	1,3,5-Trinirobenzene	80.000	80.635	-0.8	95	0.00
98	TM	Diallate	80.000	69.882	12.6	90	0.00
99	TM	Phorate	80.000	73.764	7.8	90	0.00
100	TM	Phenacetin	80.000	80.214	-0.3	97	0.00
101	TM	4-Bromophenyl-phenylether	80.000	81.410	-1.8	106	0.00

Evaluate Continuing Calibration Report

Data Path : I:\ACQUDATA\5973D\Data\072816\
Data File : BH251.D
Acq On : 28 Jul 2016 6:22 pm
Operator : J.Misiurewicz
Sample : ICV #1 Inst : 5973D
Misc : Initial Calibration 8270D/625
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jul 29 09:30:26 2016
Quant Method : I:\ACQUDATA\5973D\Methods\8270072816.M
Quant Title : 8270 BNA ANALYSIS
QLast Update : Fri Jul 29 08:17:04 2016
Response via : Initial Calibration

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

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
102	TM	Hexachlorobenzene	80.000	77.804	2.7	101	0.00
103	TM	Dimethoate	80.000	76.011	5.0	97	0.00
104	TM	Atrazine	80.000	80.838	-1.0	94	0.00
105	TCM	Pentachlorophenol	80.000	85.783	-7.2	100	0.00
106	TM	4-Aminobiphenyl	80.000	79.321	0.8	93	0.00
107	TM	Pentachloronitrobenzene	80.000	88.296	-10.4	102	0.00
108	TM	Pronamide	80.000	80.272	-0.3	93	0.00
109	TM	Dinoseb	80.000	80.759	-0.9	108	0.00
110	TM	Disulfoton	80.000	70.558	11.8	91	0.00
111	TM	Phenanthrene	80.000	78.470	1.9	97	0.00
112	TM	Anthracene	80.000	78.479	1.9	95	0.00
113	TM	Carbazole	80.000	77.368	3.3	93	0.00
114	TM	Di-n-butylphthalate	80.000	94.516	-18.1	108	0.00
115	TM	4-Nitroquinonline-1-oxide	80.000	81.283	-1.6	104	0.00
116	TCM	Fluoranthene	80.000	82.853	-3.6	98	0.00
117	IR	d12-Chrysene	40.000	40.000	0.0	99	0.00
118	TM	Methyl Parathion	80.000	91.264	-14.1	104	0.00
119	TM	Ethyl Parathion	80.000	79.226	1.0	95	0.00
120	TM	Methapyrilene	80.000	84.623	-5.8	116	0.00
121	TM	Isodrin	80.000	83.771	-4.7	97	0.00
122	TM	Benzidine	80.000	80.053	-0.1	97	0.00
123	TM	Pyrene	80.000	79.943	0.1	95	0.00
124	S	SURR6,TERPHENYL-D14	80.000	80.553	-0.7	97	0.00
125	TM	Aramite	80.000	78.997	1.3	94	0.00
126	TM	p-(Dimethylamino)azobenzene	80.000	79.750	0.3	94	0.00
127	TM	Chlorobenzilate	80.000	78.342	2.1	92	0.00
128	TM	Butyl benzyl phthalate	80.000	85.540	-6.9	107	0.00
129	TM	3,3-Dimethylbenzidine	80.000	77.124	3.6	94	0.00
130	TM	2-Acetylaminofluorene	80.000	76.149	4.8	89	0.00
131	TM	3,3'-Dichlorobenzidine	80.000	76.653	4.2	93	0.00
132	TM	Benzo(a)anthracene	80.000	78.743	1.6	97	0.00
133	TM	Chrysene	80.000	78.605	1.7	97	0.00
134	TM	bis(2-Ethylhexyl)phthalate	80.000	87.723	-9.7	105	0.00
135	IR	d12-Perylene	40.000	40.000	0.0	99	0.00
136	TCM	Di-n-octyl phthalate	80.000	83.705	-4.6	97	0.00
137	TM	7,12-Dimethylbenz(a)anthrac	80.000	75.656	5.4	90	0.00
138	TM	Benzo(b)Fluoranthene	80.000	82.193	-2.7	96	0.01
139	TM	Benzo(k)fluoranthene	80.000	82.706	-3.4	100	0.00
140	TCM	Benzo(a)pyrene	80.000	82.900	-3.6	98	0.00
141	TM	3-Methylcholanthrene	80.000	77.077	3.7	89	0.00
142	TM	Indeno(1,2,3-cd)Pyrene	80.000	84.226	-5.3	103	0.00
143	TM	Dibenz(a,h)anthracene	80.000	82.187	-2.7	99	0.00
144	TM	Benzo(g,h,i)perylene	80.000	61.416	23.2#	80	0.00

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

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\5973D\Data\072816\
Data File : BH251.D
Acq On : 28 Jul 2016 6:22 pm
Operator : J.Misiurewicz
Sample : ICV #1 Inst : 5973D
Misc : Initial Calibration 8270D/625
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jul 29 09:30:26 2016
Quant Method : I:\ACQUDATA\5973D\Methods\8270072816.M
Quant Title : 8270 BNA ANALYSIS
QLast Update : Fri Jul 29 08:17:04 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) d4-1,4-Dichlorobenzene	4.785	152	77473	40.00	ppm	0.00
33) d8-Naphthalene	5.951	136	350308	40.00	ppm	0.00
57) d10-Acenaphthene	7.652	164	198180	40.00	ppm	0.00
91) d10-Phenanthrene	9.117	188	321296	40.00	ppm	0.00
117) d12-Chrysene	12.385	240	299462	40.00	ppm	0.00
135) d12-Perylene	15.311	264	281667	40.00	ppm	0.00
System Monitoring Compounds						
7) SURR1,2-FLUOROPHENOL	3.720	112	227400	78.13	ppm	0.00
Spiked Amount 200.000	Range 10 - 105		Recovery = 39.06%			
12) SURR2,PHENOL-D6	4.459	99	273122	80.86	ppm	0.00
Spiked Amount 200.000	Range 10 - 107		Recovery = 40.43%			
34) SURR4,NITROBENZENE-D5	5.282	82	228491	82.55	ppm	0.00
Spiked Amount 100.000	Range 31 - 110		Recovery = 82.55%			
63) SURR5,2-FLUOROBIPHENYL	6.988	172	492938	77.68	ppm	0.00
Spiked Amount 100.000	Range 31 - 118		Recovery = 77.68%			
88) SURR3,2,4,6-TRIBROMOPH...	8.433	330	60955	80.68	ppm	0.00
Spiked Amount 200.000	Range 35 - 141		Recovery = 40.34%			
124) SURR6,TERPHENYL-D14	10.807	244	495734	80.55	ppm	0.00
Spiked Amount 100.000	Range 30 - 133		Recovery = 80.55%			
Target Compounds						Qvalue
2) Pyridine	2.731	79	227373	73.94	ppm	99
3) N-Nitrosodimethylamine	2.693	74	122366	69.08	ppm	97
4) 2-Picoline	3.282	93	233339	76.18	ppm	99
5) N-Nitrosomethylamine	3.357	42	101254	66.54	ppm	97
6) Methyl Methansulfonate	3.587	80	121683	85.56	ppm	96
8) N-Nitrosodiethylamine	3.897	102	95299	78.83	ppm	95
9) Ethyl Mathanesulfonate	4.127	79	169176	74.29	ppm	94
10) Benzaldehyde	4.421	106	150841	82.03	ppm	98
11) Aniline	4.507	93	380601	77.64	ppm	92
13) Phenol	4.475	94	272601	79.78	ppm	99
14) bis(2-Clethyl)Ether	4.549	93	222853	84.27	ppm	96
15) Pentachloroethane	4.549	117	78480	81.87	ppm	99
16) 2-Chlorophenol	4.608	128	225236	81.75	ppm	98
17) 1,3-Diclbenzene	4.742	146	251232	83.40	ppm	97
18) 1,4-Dichlorobenzene	4.801	146	252687	80.89	ppm	99
19) 1,2-Diclbenzene	4.935	146	238161	79.75	ppm	98
20) Benzyl Alcohol	4.902	79	175235	86.10	ppm	97
21) 1-Methyl-2-pyrrolidinone	4.945	99	156153	76.01	ppm	94
22) 2,2'-oxybis(1-Chloropr...	5.015	45	272094	72.84	ppm	92
23) 2-Methylphenol	5.009	108	195727	75.98	ppm	95
24) 3+4-Methylphenol	5.143	108	215601	79.44	ppm	97
25) Acetophenone	5.143	105	304587	69.19	ppm	98
26) N-Nitroso-Di-n-propyla...	5.138	70	178048	76.62	ppm	97
27) N-Nitrosopyrrolidine	5.132	100	127493	77.64	ppm	92
28) N-Nitrosomorpholine	5.165	56	136373	75.17	ppm	96
29) o-Toluidine	5.175	106	351177	76.44	ppm	100
30) Hexachloroethane	5.239	117	102072	81.89	ppm	98
31) o,o,o-Triethylphosphor...	5.678	198	99568	72.45	ppm	99
32) Alpha-terpinol	5.972	121	89806	80.58	ppm	95
35) Nitrobenzene	5.298	77	223128	81.40	ppm	97
36) N-Nitrosopiperidine	5.437	42	144939	76.10	ppm	92
37) Isophorone	5.512	82	425919	78.42	ppm	99
38) 2-Nitrophenol	5.592	139	109867	85.38	ppm	99

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\5973D\Data\072816\
Data File : BH251.D
Acq On : 28 Jul 2016 6:22 pm
Operator : J.Misiurewicz
Sample : ICV #1 Inst : 5973D
Misc : Initial Calibration 8270D/625
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jul 29 09:30:26 2016
Quant Method : I:\ACQUDATA\5973D\Methods\8270072816.M
Quant Title : 8270 BNA ANALYSIS
QLast Update : Fri Jul 29 08:17:04 2016
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
39)	Benzoic Acid	5.737	105	111500	96.73	ppm		95
40)	2,4-Dimethylphenol	5.625	107	213577	76.55	ppm		97
41)	bis(-2-Chloroethoxy)Me...	5.710	93	275819	79.91	ppm		99
42)	2,4-Dichlorophenol	5.822	162	179652	80.95	ppm		98
43)	a,a-Dimethylphenethyla...	5.940	58	305061m	39.80	ppm		
44)	1,2,4-Trichlorobenzene	5.892	180	205423	79.16	ppm		99
45)	Naphthalene	5.972	128	641473	74.00	ppm		99
46)	4-Chloroaniline	6.020	127	289283	78.27	ppm		99
47)	2,6-Dichlorophenol	6.031	162	179211	77.20	ppm		98
48)	Hexachlorobutadiene	6.079	225	110311	77.91	ppm		98
49)	Hexachloropropene	6.047	213	127077	75.34	ppm		97
50)	4-Chloro-3-methylphenol	6.491	107	191814	81.42	ppm		95
51)	N-N-di-n-butylamine	6.336	84	158680	69.73	ppm		98
52)	Caprolactam	6.373	113	71065	71.57	ppm		98
53)	p-Phenylenediamine	6.373	80	35595	113.79	ppm		85
54)	Safrole	6.545	162	159385	76.37	ppm		98
55)	2-Methylnaphthalene	6.635	142	442162	80.08	ppm		100
56)	1-Methylnaphthalene	6.732	142	404079	77.20	ppm		98
58)	Hexachlorocyclopentadiene	6.780	237	90995	82.91	ppm		99
59)	1,2,4,5-Tetrachloroben...	6.796	216	196474	79.64	ppm		99
60)	1,2,3,4-Tetrachloroben...	7.074	216	189233	72.27	ppm		99
61)	2,4,6-Trichlorophenol	6.914	196	125598	81.10	ppm		95
62)	2,4,5-Trichlorophenol	6.962	196	131698	81.91	ppm		98
64)	Isosafrole	7.053	104	81655	70.48	ppm		97
65)	1,1'-Biphenyl	7.090	154	557240	75.53	ppm		100
66)	2-Chloronaphthalene	7.111	162	441628	78.86	ppm		99
67)	2-Nitroaniline	7.213	65	112831	79.24	ppm		97
68)	1,4-Naphthoquinone	7.288	158	131332	119.91	ppm		97
69)	m-Dinitrobenzene	7.427	168	57755	75.63	ppm		96
70)	Acenaphthylene	7.518	152	678870	79.17	ppm		99
71)	Dimethyl phthalate	7.390	163	474773	82.11	ppm		99
72)	2,6-Dinitrotoluene	7.448	165	101604	89.10	ppm		89
73)	Acenaphthene	7.684	153	441559	77.97	ppm		98
74)	3-Nitroaniline	7.620	138	123041	81.47	ppm		99
75)	2,4-Dinitrophenol	7.727	184	30034	85.85	ppm		91
76)	Dibenzofuran	7.855	168	604417	79.38	ppm		99
77)	2,4-Dinitrotoluene	7.850	165	130399	86.75	ppm		94
78)	4-Nitrophenol	7.807	65	71216	80.18	ppm		96
79)	Pentachlorobenzene	7.812	250	174256	81.33	ppm		98
80)	1-Napthylamine	7.941	143	388394	68.91	ppm		98
81)	2-Napthylamine	8.015	143	436638	73.09	ppm		98
82)	2,3,4,6-Tetrachlorophenol	7.983	232	91594	82.07	ppm		98
83)	Fluorene	8.192	166	496691	79.35	ppm		99
84)	4-Chlorophenyl-phenyle...	8.192	204	243081	85.36	ppm		99
85)	Diethylphthalate	8.080	149	503013	83.27	ppm		99
86)	4-Nitroaniline	8.229	138	134201	82.33	ppm		96
87)	5-Nitro-o-toluidine	8.213	152	142620	85.31	ppm		92
89)	Sulfotepp	8.459	322	63619	81.00	ppm		93
90)	Octachlorocyclopentene	8.438	307	61594	75.24	ppm		95
92)	Thionazin	8.160	107	82702	72.05	ppm		99
93)	4,6-Dinitro-2-methylph...	8.251	198	56057	86.00	ppm		82
94)	Diphenylamine	8.310	169	763814	144.72	ppm		100
95)	1,2 Diphenylhydrazine	8.347	77	524326	77.01	ppm		100
96)	N-Nitrosodiphenylamine	8.310	169	763814	144.72	ppm		100
97)	1,3,5-Trinirobenzene	8.598	213	23747	80.63	ppm	#	1
98)	Diallate	8.588	86	180782	69.88	ppm		99

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\5973D\Data\072816\
Data File : BH251.D
Acq On : 28 Jul 2016 6:22 pm
Operator : J.Misiurewicz
Sample : ICV #1 Inst : 5973D
Misc : Initial Calibration 8270D/625
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jul 29 09:30:26 2016
Quant Method : I:\ACQUDATA\5973D\Methods\8270072816.M
Quant Title : 8270 BNA ANALYSIS
QLast Update : Fri Jul 29 08:17:04 2016
Response via : Initial Calibration

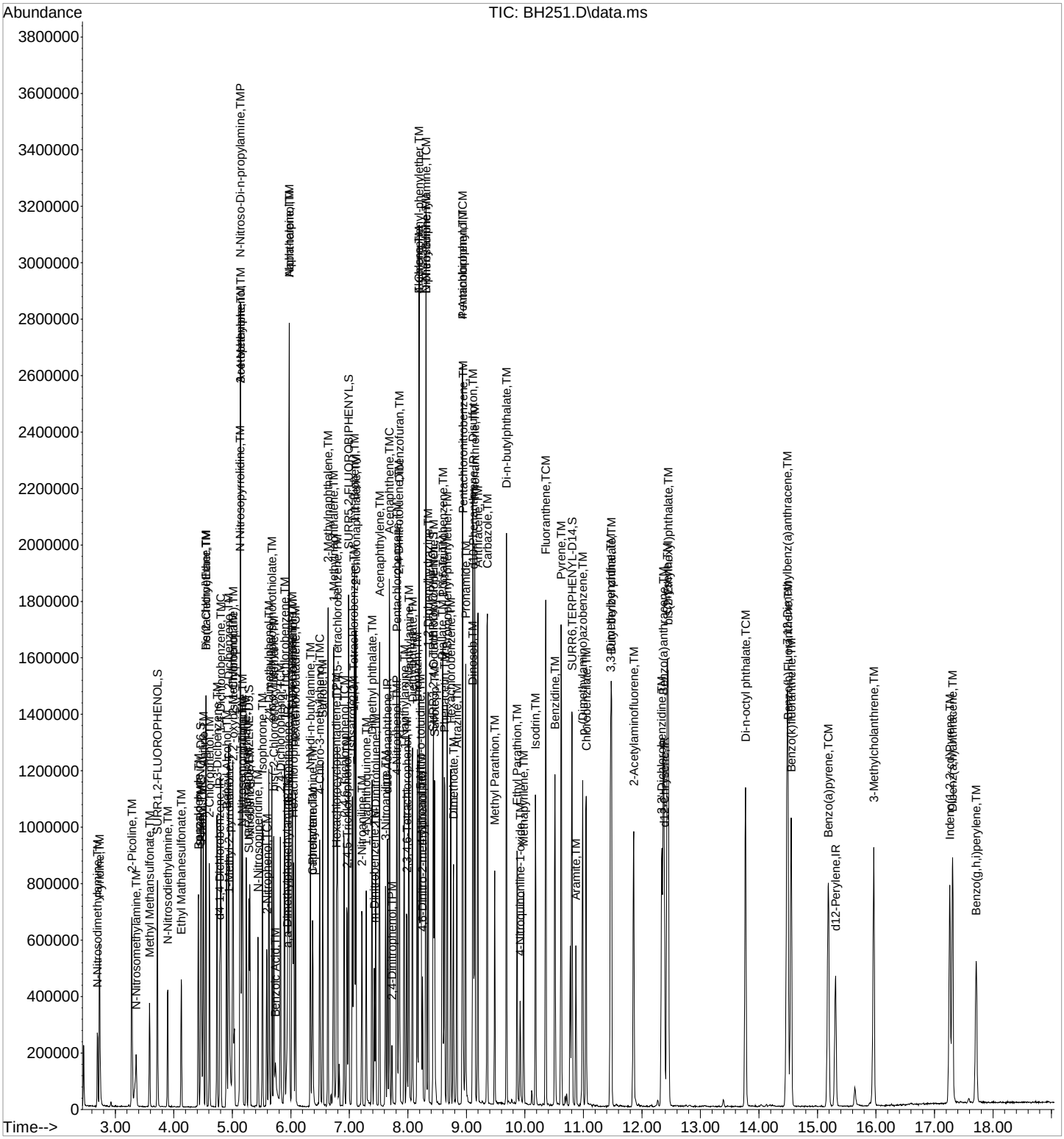
	Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
99)	Phorate	8.598	121	93902	73.76 ppm	91
100)	Phenacetin	8.625	108	273446	80.21 ppm	93
101)	4-Bromophenyl-phenylether	8.673	248	130018	81.41 ppm	98
102)	Hexachlorobenzene	8.732	284	141028	77.80 ppm	97
103)	Dimethoate	8.780	87	170625	76.01 ppm	98
104)	Atrazine	8.839	215	60131	80.84 ppm	94
105)	Pentachlorophenol	8.935	266	64999	85.78 ppm	97
106)	4-Aminobiphenyl	8.935	169	499751	79.32 ppm	99
107)	Pentachloronitrobenzene	8.941	237	55425	88.30 ppm	89
108)	Pronamide	8.989	173	233754	80.27 ppm	98
109)	Dinoseb	9.107	211	69233	80.76 ppm	100
110)	Disulfoton	9.112	88	234523	70.56 ppm	98
111)	Phenanthrene	9.144	178	666973	78.47 ppm	99
112)	Anthracene	9.197	178	668643	78.48 ppm	98
113)	Carbazole	9.358	167	699005	77.37 ppm	99
114)	Di-n-butylphthalate	9.684	149	963438	94.52 ppm	100
115)	4-Nitroquinonline-1-oxide	9.920	190	34125	81.28 ppm	90
116)	Fluoranthene	10.358	202	750484	82.85 ppm	99
118)	Methyl Parathion	9.486	109	129963	91.26 ppm	98
119)	Ethyl Parathion	9.866	97	91197	79.23 ppm	99
120)	Methapyrilene	9.978	58	202356	84.62 ppm	98
121)	Isodrin	10.182	193	72177	83.77 ppm	98
122)	Benzidine	10.513	184	492886	80.05 ppm	99
123)	Pyrene	10.620	202	755734	79.94 ppm	99
125)	Aramite	10.872	185	96120m	79.00 ppm	
126)	p-(Dimethylamino)azobe...	10.989	120	226544	79.75 ppm	99
127)	Chlorobenzilate	11.048	139	251949	78.34 ppm	99
128)	Butyl benzyl phthalate	11.481	149	408459	85.54 ppm	97
129)	3,3-Dimethylbenzidine	11.465	212	472831	77.12 ppm	99
130)	2-Acetylaminofluorene	11.861	181	309438	76.15 ppm	98
131)	3,3'-Dichlorobenzidine	12.337	252	256701	76.65 ppm	97
132)	Benzo(a)anthracene	12.369	228	670761	78.74 ppm	98
133)	Chrysene	12.433	228	640137	78.60 ppm	98
134)	bis(2-Ethylhexyl)phtha...	12.449	149	597110	87.72 ppm	100
136)	Di-n-octyl phthalate	13.771	149	925809	83.71 ppm	99
137)	7,12-Dimethylbenz(a)an...	14.487	256	307741	75.66 ppm	98
138)	Benzo(b)Fluoranthene	14.498	252	667401	82.19 ppm	95
139)	Benzo(k)fluoranthene	14.551	252	625240	82.71 ppm	99
140)	Benzo(a)pyrene	15.188	252	578181	82.90 ppm	97
141)	3-Methylcholanthrene	15.963	268	316374	77.08 ppm	97
142)	Indeno(1,2,3-cd)Pyrene	17.263	276	464089	84.23 ppm	98
143)	Dibenz(a,h)anthracene	17.311	278	517575	82.19 ppm	99
144)	Benzo(g,h,i)perylene	17.712	276	339247	61.42 ppm	98

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

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\5973D\Data\072816\
Data File : BH251.D
Acq On : 28 Jul 2016 6:22 pm
Operator : J.Misiurewicz
Sample : ICV #1 Inst : 5973D
Misc : Initial Calibration 8270D/625
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jul 29 09:30:26 2016
Quant Method : I:\ACQUDATA\5973D\Methods\8270072816.M
Quant Title : 8270 BNA ANALYSIS
QLast Update : Fri Jul 29 08:17:04 2016
Response via : Initial Calibration

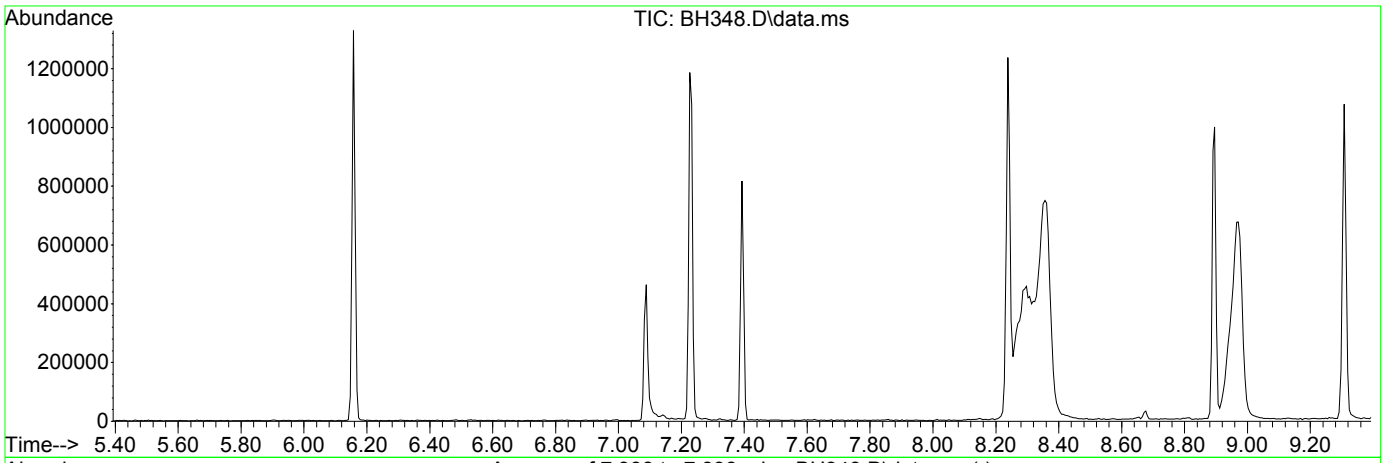


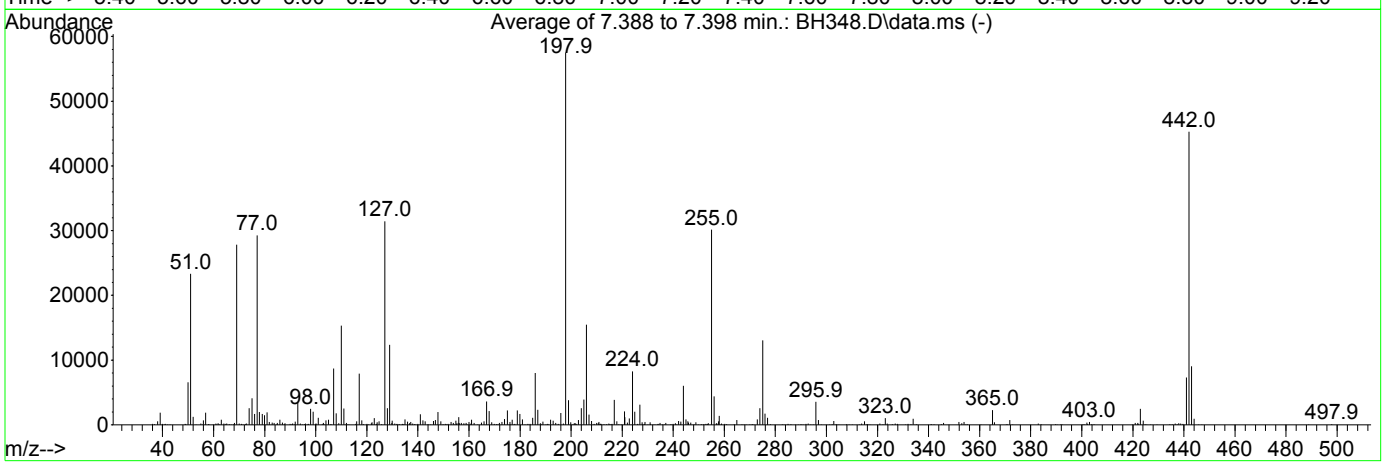
1st BA 08/08/16
2nd MW 08/09/16

Data Path : I:\ACQUDATA\5973D\Data\080516\
Data File : BH348.D
Acq On : 5 Aug 2016 10:41 am
Operator : B.ALLGEIER
Sample : TUNE
Misc : 50NG DFTPP
ALS Vial : 2 Sample Multiplier: 1

Integration File: RTEINT.P

Method : I:\ACQUDATA\5973D\Methods\TUNCHECK.M
Title : TUNE CHECK
Last Update : Tue Apr 01 09:41:30 2014





AutoFind: Scans 749, 750, 751; Background Corrected with Scan 745

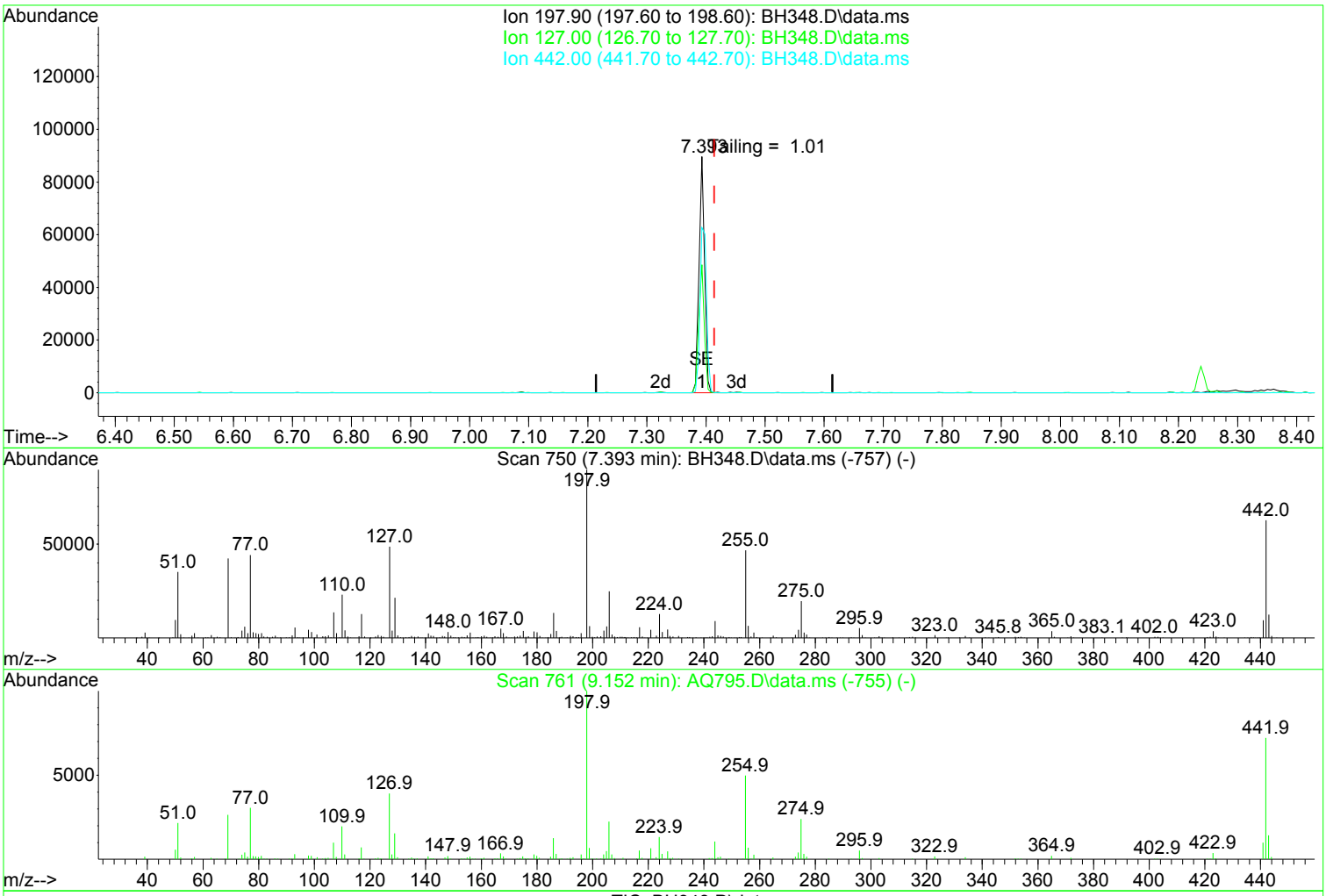
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	40.6	23344	PASS
68	69	0.00	2	1.1	308	PASS
69	198	0.00	100	48.4	27854	PASS
70	69	0.00	2	0.8	221	PASS
127	198	40	60	54.7	31459	PASS
197	198	0.00	1	0.3	194	PASS
198	198	100	100	100.0	57491	PASS
199	198	5	9	6.6	3789	PASS
275	198	10	30	22.7	13043	PASS
365	198	1	500	3.9	2269	PASS
441	443	0.01	100	80.6	7308	PASS
442	198	50	500	78.7	45267	PASS
443	442	17	23	20.0	9064	PASS

1st BA 08/08/16
2nd MW 08/09/16

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\5973D\Data\080516\
Data File : BH348.D
Acq On : 5 Aug 2016 10:41 am
Operator : B.ALLGEIER
Sample : TUNE
Misc : 50NG DFTPP
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 05 10:49:11 2016
Quant Method : I:\ACQUDATA\5973D\METHODS\TUNED.M
Quant Title : TUNE CHECK
QLast Update : Tue Jul 05 07:48:43 2016
Response via : Initial Calibration



(6) DFTPP (T)

7.393min (-0.022) 50.00 ppm

response 58045

Ion	Exp%	Act%
197.90	100.00	100.00
127.00	39.50	54.23
442.00	103.20	69.97
0.00	0.00	0.00

Manual Integration:

After

Other - tailing

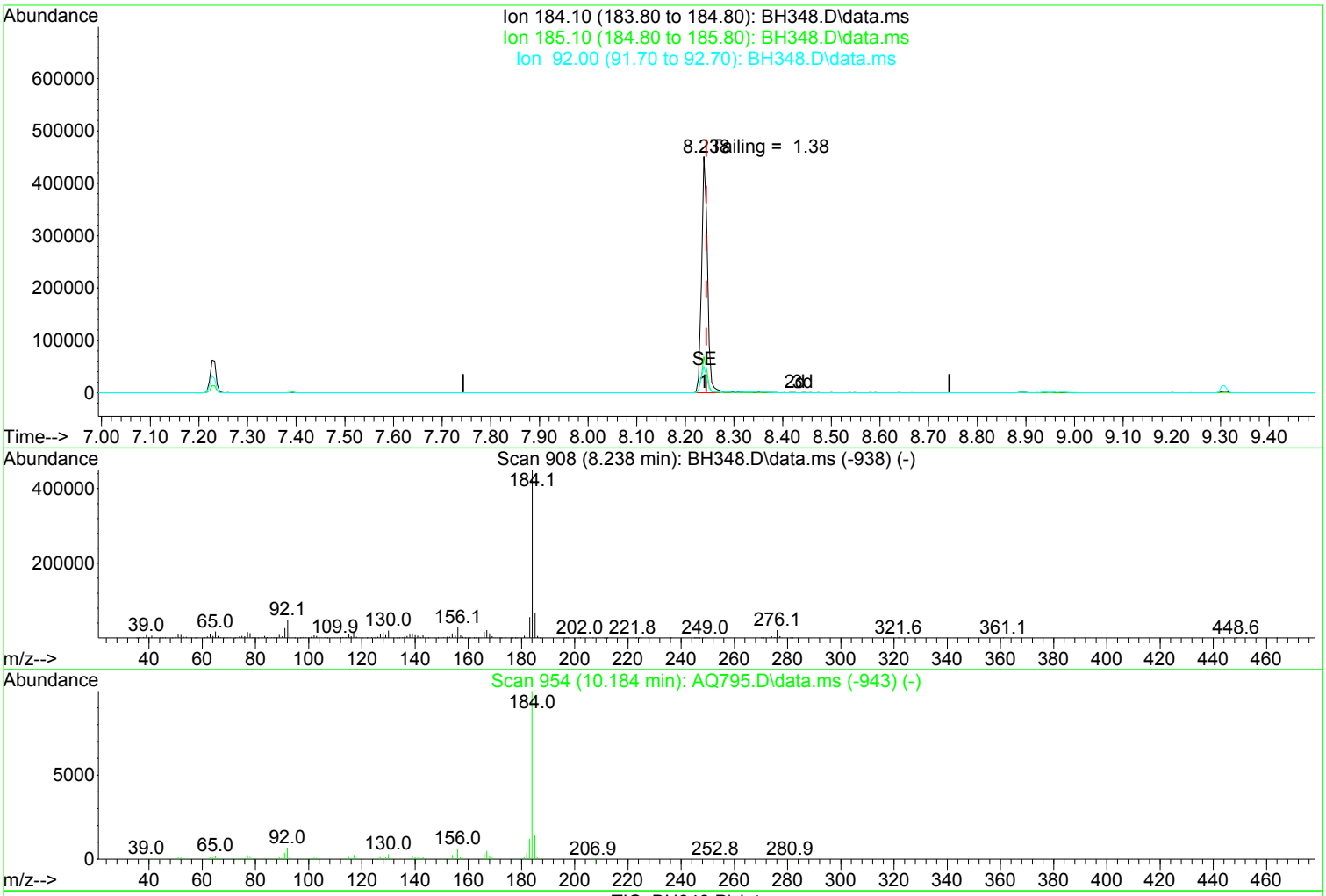
08/05/16

Quantitation Report (Qedit)

1st BA 08/08/16
2nd MW 08/09/16

Data Path : I:\ACQUDATA\5973D\Data\080516\
Data File : BH348.D
Acq On : 5 Aug 2016 10:41 am
Operator : B.ALLGEIER
Sample : TUNE
Misc : 50NG DFTPP
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 05 10:49:11 2016
Quant Method : I:\ACQUDATA\5973D\METHODS\TUNED.M
Quant Title : TUNE CHECK
QLast Update : Tue Jul 05 07:48:43 2016
Response via : Initial Calibration



TIC: BH348.D\data.ms

(8) Benzidine (T)

8.238min (-0.005) 54.73 ppm

response 381255

Ion	Exp%	Act%
184.10	100.00	100.00
185.10	14.90	15.15
92.00	8.00	10.92
0.00	0.00	0.00

Manual Integration:

After

Other - tailing

08/05/16

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\5973D\Data\080516\
Data File : BH348.D
Acq On : 5 Aug 2016 10:41 am
Operator : B.ALLGEIER
Sample : TUNE
Misc : 50NG DFTPP
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 05 10:49:11 2016
Quant Method : I:\ACQUDATA\5973D\METHODS\TUNED.M
Quant Title : TUNE CHECK
QLast Update : Tue Jul 05 07:48:43 2016
Response via : Initial Calibration

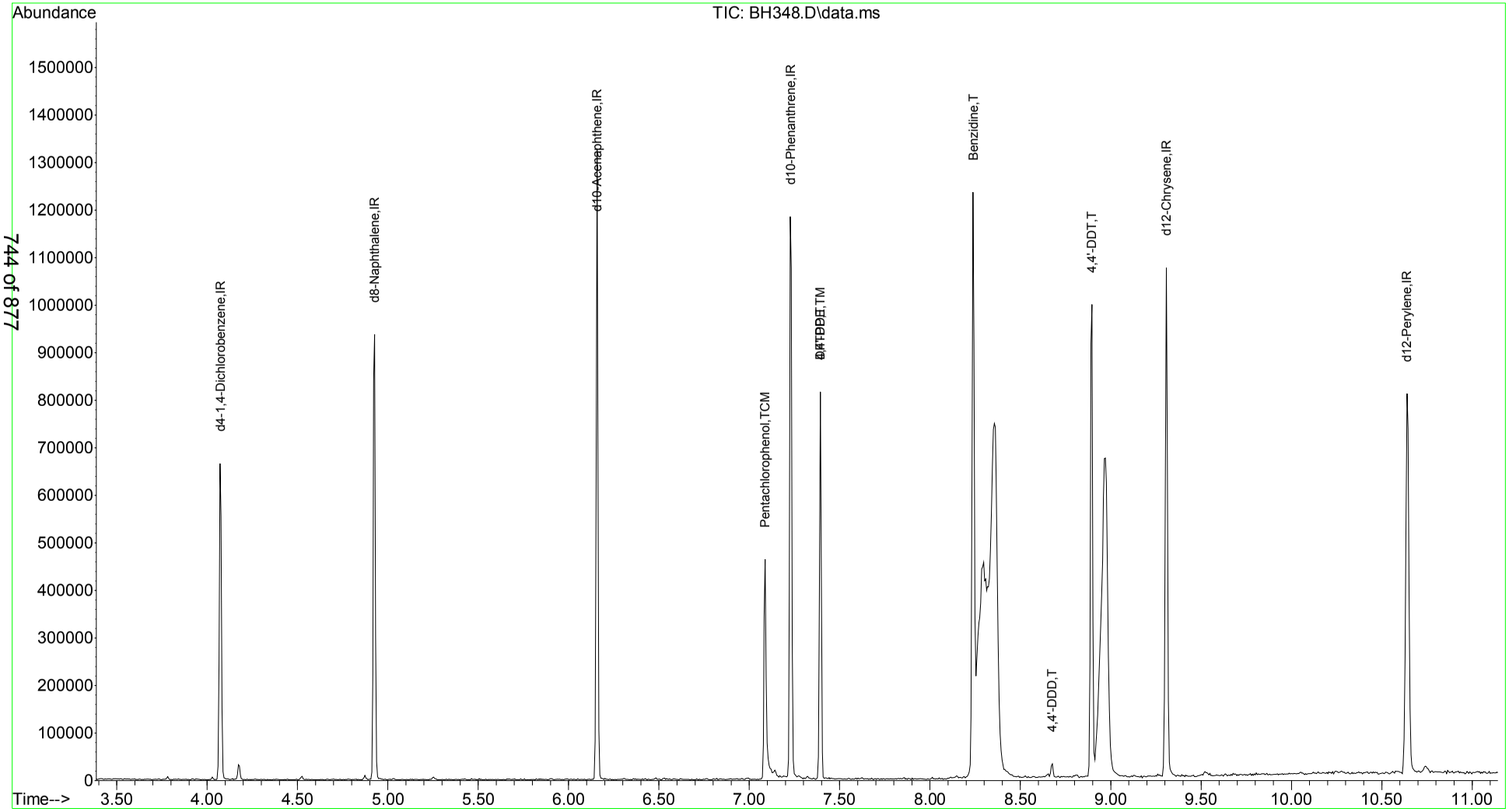
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) d4-1,4-Dichlorobenzene	4.071	152	91590	40.00	ppm	-0.03
2) d8-Naphthalene	4.927	136	373975	40.00	ppm	-0.03
3) d10-Acenaphthene	6.157	164	218742	40.00	ppm	-0.03
4) d10-Phenanthrene	7.227	188	366847	40.00	ppm	-0.03
7) d12-Chrysene	9.308	240	301380	40.00	ppm	0.02
12) d12-Perylene	10.640	264	316919	40.00	ppm	0.03
Target Compounds						Qvalue
5) Pentachlorophenol	7.088	266	49884	49.25	ppm	87
6) DFTPP	7.393	198	58045	50.00	ppm	70
8) Benzidine	8.238	184	381255	54.73	ppm	97
9) 4,4'-DDE	7.393	246	912	0.41	ppm	64
10) 4,4'-DDD	8.677	235	3822	1.73	ppm	86
11) 4,4'-DDT	8.896	235	149826	67.94	ppm	98

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

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\5973D\Data\080516\
Data File : BH348.D
Acq On : 5 Aug 2016 10:41 am
Operator : B.ALLGEIER
Sample : TUNE
Misc : 50NG DFTPP
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 05 10:49:11 2016
Quant Method : I:\ACQUDATA\5973D\METHODS\TUNED.M
Quant Title : TUNE CHECK
QLast Update : Tue Jul 05 07:48:43 2016
Response via : Initial Calibration

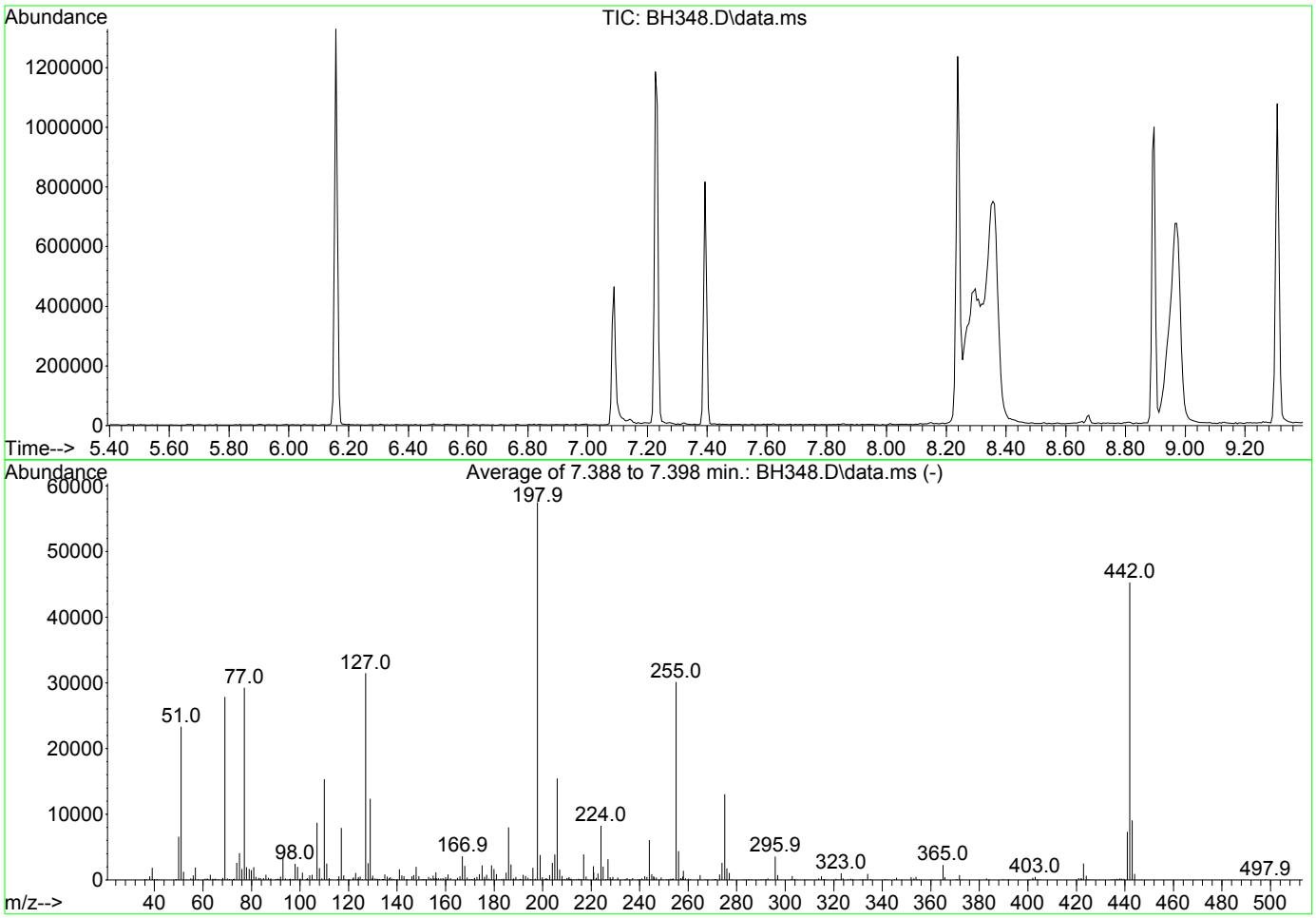


1st BA 08/08/16
2nd MWC 08/09/16

Data Path : I:\ACQUDATA\5973D\Data\080516\
Data File : BH348.D
Acq On : 5 Aug 2016 10:41 am
Operator : B.ALLGEIER
Sample : TUNE
Misc : 50NG DFTPP
ALS Vial : 2 Sample Multiplier: 1

Integration File: RTEINT.P

Method : I:\ACQUDATA\5973D\METHODS\TUNED.M
Title : TUNE CHECK
Last Update : Tue Jul 05 07:48:29 2016



AutoFind: Scans 749, 750, 751; Background Corrected with Scan 745

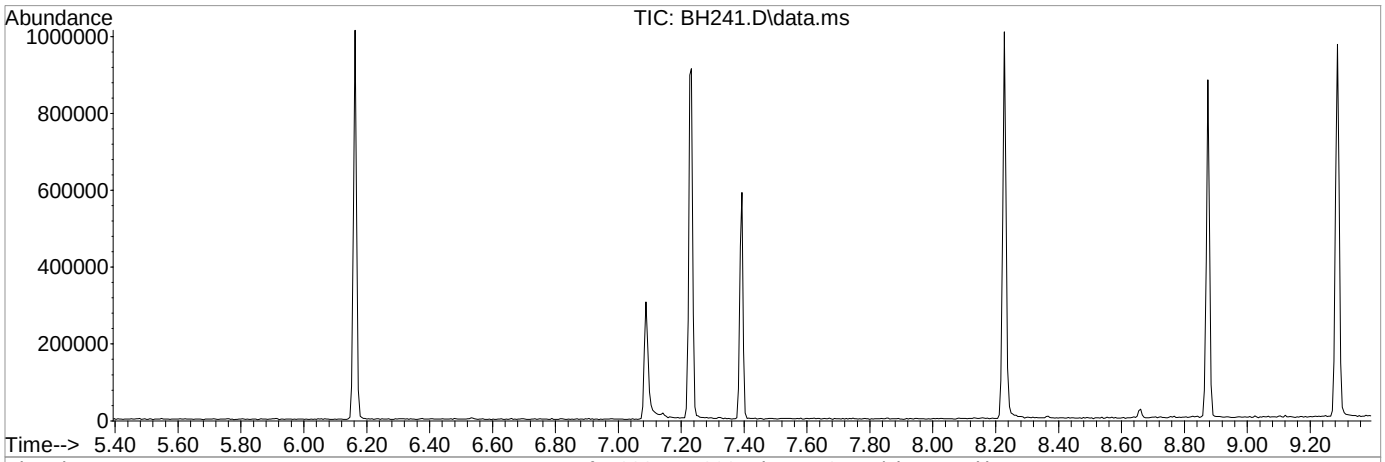
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	40.6	23344	PASS
68	69	0.00	2	1.1	308	PASS
70	69	0.00	2	0.8	221	PASS
127	198	10	80	54.7	31459	PASS
197	198	0.00	2	0.3	194	PASS
198	198	100	100	100.0	57491	PASS
199	198	5	9	6.6	3789	PASS
275	198	10	60	22.7	13043	PASS
365	198	1	500	3.9	2269	PASS
441	442	0.01	24	16.1	7308	PASS
442	442	100	100	100.0	45267	PASS
443	442	15	24	20.0	9064	PASS

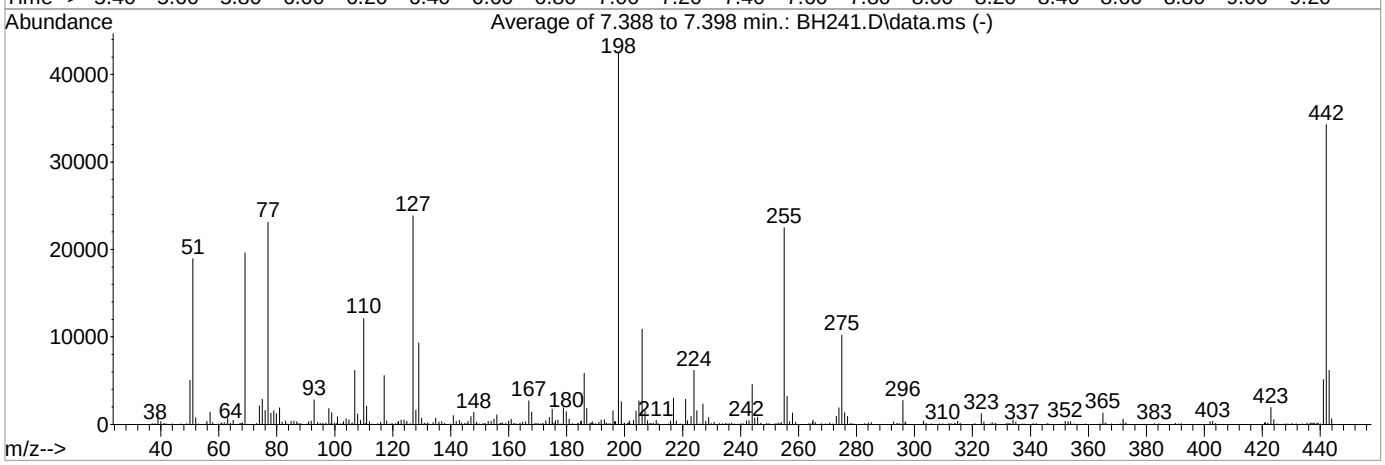
DFTPP

Data Path : I:\ACQUDATA\5973D\Data\072816\
Data File : BH241.D
Acq On : 28 Jul 2016 1:53 pm
Operator : J.Misiurewicz
Sample : TUNE Inst : 5973D
Misc : 50 ng DFTPP
ALS Vial : 2 Sample Multiplier: 1

Integration File: RTEINT.P

Method : I:\ACQUDATA\5973D\Methods\TUNCHECK.M
Title : TUNE CHECK
Last Update : Tue Apr 01 09:41:30 2014





AutoFind: Scans 749, 750, 751; Background Corrected with Scan 744

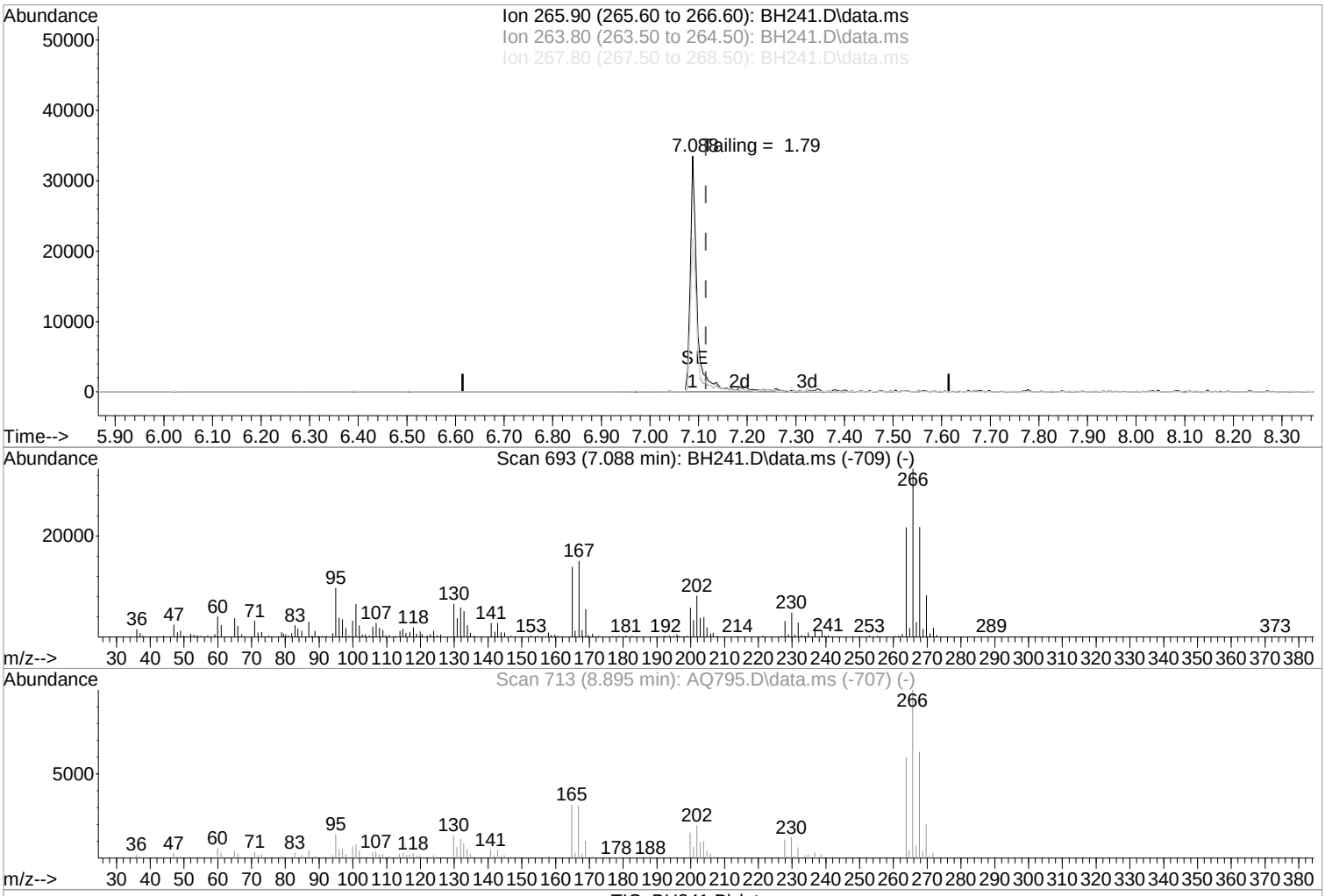
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	44.5	18917	PASS
68	69	0.00	2	0.9	183	PASS
69	198	0.00	100	46.1	19597	PASS
70	69	0.00	2	0.2	32	PASS
127	198	40	60	56.1	23849	PASS
197	198	0.00	1	0.7	306	PASS
198	198	100	100	100.0	42544	PASS
199	198	5	9	6.1	2599	PASS
275	198	10	30	23.9	10182	PASS
365	198	1	500	3.1	1311	PASS
441	443	0.01	100	83.0	5109	PASS
442	198	50	500	80.5	34269	PASS
443	442	17	23	18.0	6152	PASS

1st DM 07/29/16
2nd MW 07/29/16

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\5973D\Data\072816\
Data File : BH241.D
Acq On : 28 Jul 2016 1:53 pm
Operator : J.Misiurewicz
Sample : TUNE Inst : 5973D
Misc : 50 ng DFTPP
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 28 14:01:02 2016
Quant Method : I:\ACQUDATA\5973D\METHODS\TUNED.M
Quant Title : TUNE CHECK
QLast Update : Tue Jul 05 07:48:43 2016
Response via : Initial Calibration



(5) Pentachlorophenol (TCM)

7.088min (-0.027) 39.52 ppm

response 31989

Ion	Exp%	Act%
265.90	100	100
263.80	57.70	65.12
267.80	58.60	65.31
0.00	0.00	0.00

Manual Integration:

After

Other - Tailing

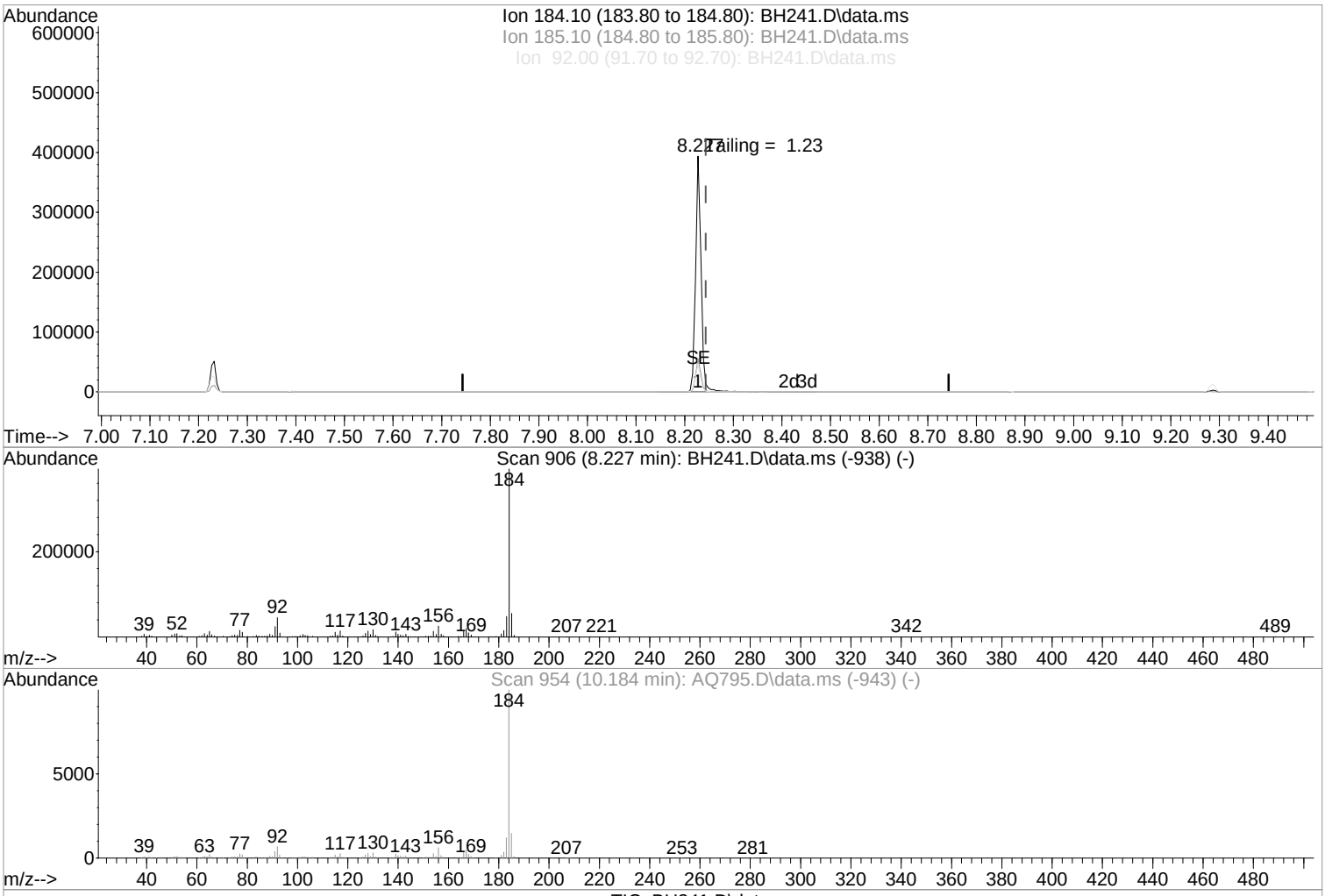
07/29/16

1st DM 07/29/16
2nd MW 07/29/16

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\5973D\Data\072816\
Data File : BH241.D
Acq On : 28 Jul 2016 1:53 pm
Operator : J.Misiurewicz
Sample : TUNE Inst : 5973D
Misc : 50 ng DFTPP
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 28 14:01:02 2016
Quant Method : I:\ACQUDATA\5973D\METHODS\TUNED.M
Quant Title : TUNE CHECK
QLast Update : Tue Jul 05 07:48:43 2016
Response via : Initial Calibration



TIC: BH241.D\data.ms

(8) Benzidine (T)

8.227min (-0.016) 50.12 ppm

response 311458

Ion	Exp%	Act%
184.10	100	100
185.10	14.90	13.98
92.00	8.00	11.54
0.00	0.00	0.00

Manual Integration:

After

Other - Tailing

07/29/16

1st DM 07/29/16
2nd MWC 07/29/16

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\5973D\Data\072816\
Data File : BH241.D
Acq On : 28 Jul 2016 1:53 pm
Operator : J.Misiurewicz
Sample : TUNE Inst : 5973D
Misc : 50 ng DFTPP
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 28 14:01:02 2016
Quant Method : I:\ACQUDATA\5973D\METHODS\TUNED.M
Quant Title : TUNE CHECK
QLast Update : Tue Jul 05 07:48:43 2016
Response via : Initial Calibration

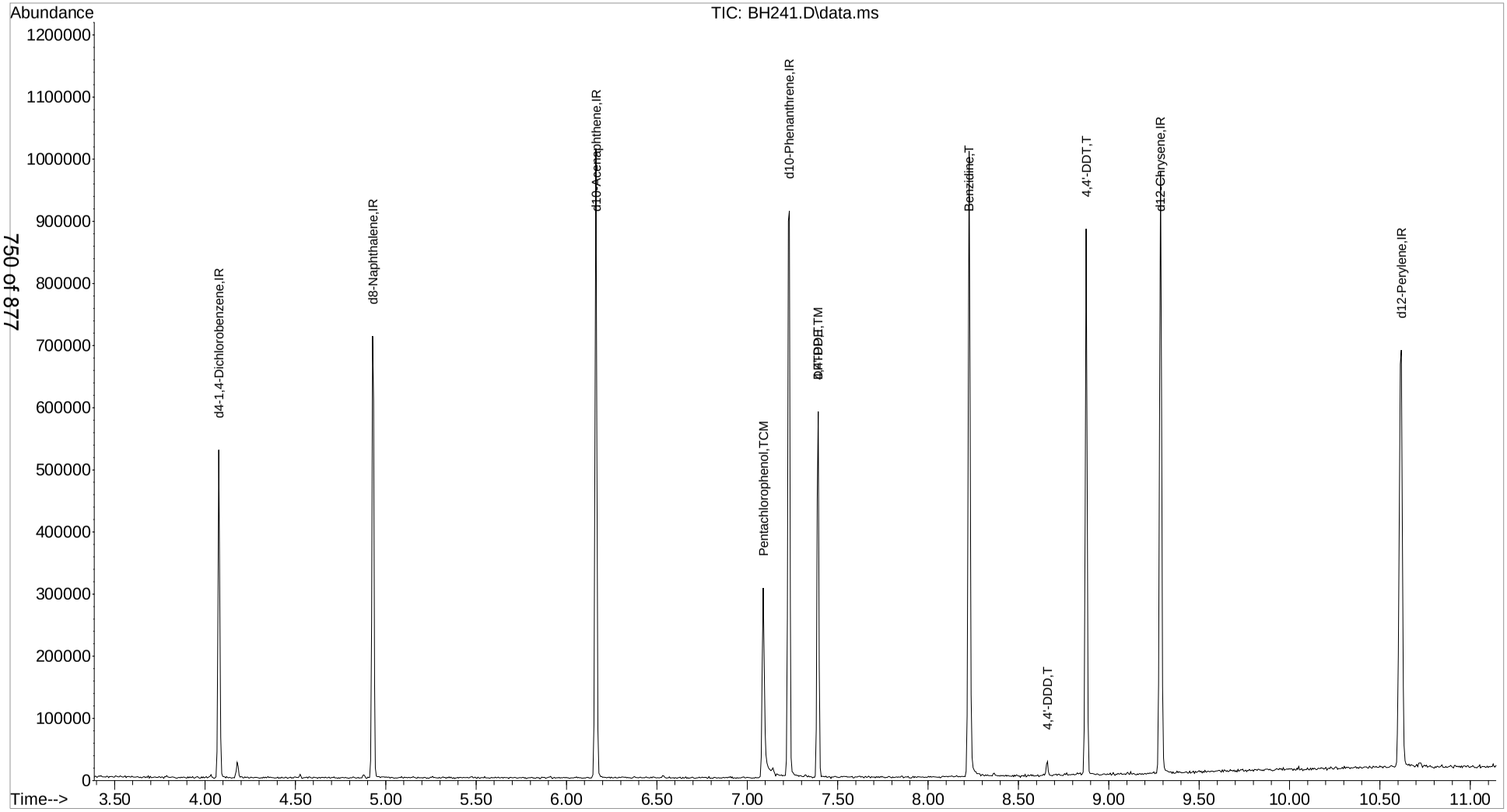
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) d4-1,4-Dichlorobenzene	4.077	152	65929	40.00 ppm	-0.03
2) d8-Naphthalene	4.927	136	275913	40.00 ppm	-0.03
3) d10-Acenaphthene	6.163	164	166384	40.00 ppm	-0.03
4) d10-Phenanthrene	7.232	188	293168	40.00 ppm	-0.02
7) d12-Chrysene	9.286	240	268889	40.00 ppm	0.00
12) d12-Perylene	10.618	264	267409	40.00 ppm	0.01
Target Compounds					Qvalue
5) Pentachlorophenol	7.088	266	31989	39.52 ppm	91
6) DFTPP	7.393	198	44091	47.53 ppm	82
8) Benzidine	8.227	184	311458	50.12 ppm	95
9) 4,4'-DDE	7.393	246	809	0.41 ppm	94
10) 4,4'-DDD	8.661	235	2399	1.22 ppm	89
11) 4,4'-DDT	8.874	235	113273	57.57 ppm	96

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

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\5973D\Data\072816\
Data File : BH241.D
Acq On : 28 Jul 2016 1:53 pm
Operator : J.Misiurewicz
Sample : TUNE Inst : 5973D
Misc : 50 ng DFTPP
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 28 14:01:02 2016
Quant Method : I:\ACQUDATA\5973D\METHODS\TUNED.M
Quant Title : TUNE CHECK
QLast Update : Tue Jul 05 07:48:43 2016
Response via : Initial Calibration



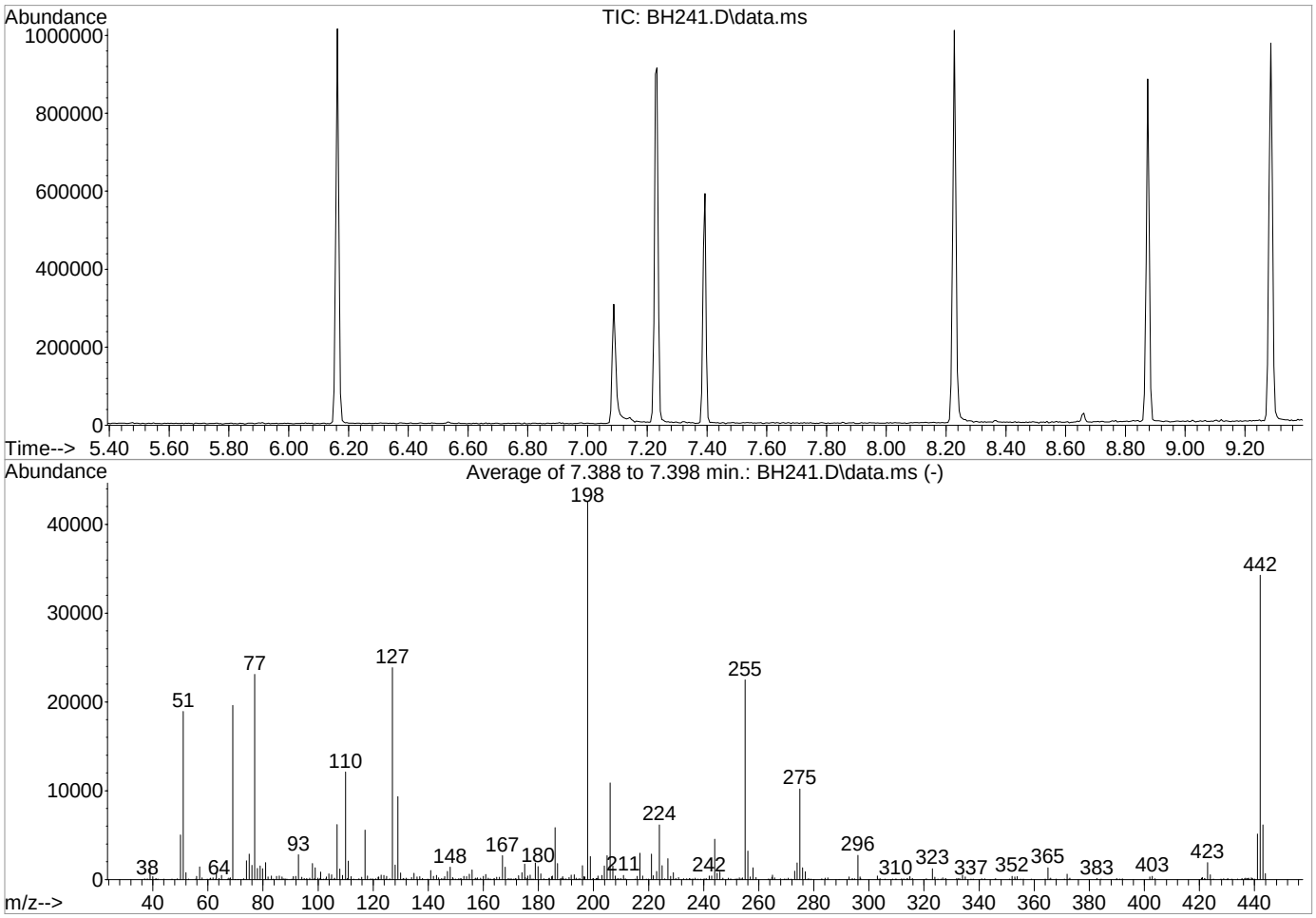
1st 07/29/16
2nd 07/29/16

DFTPP

Data Path : I:\ACQUDATA\5973D\Data\072816\
Data File : BH241.D
Acq On : 28 Jul 2016 1:53 pm
Operator : J.Misiurewicz
Sample : TUNE Inst : 5973D
Misc : 50 ng DFTPP
ALS Vial : 2 Sample Multiplier: 1

Integration File: RTEINT.P

Method : I:\ACQUDATA\5973D\METHODS\TUNED.M
Title : TUNE CHECK
Last Update : Tue Jul 05 07:48:29 2016



AutoFind: Scans 749, 750, 751; Background Corrected with Scan 744

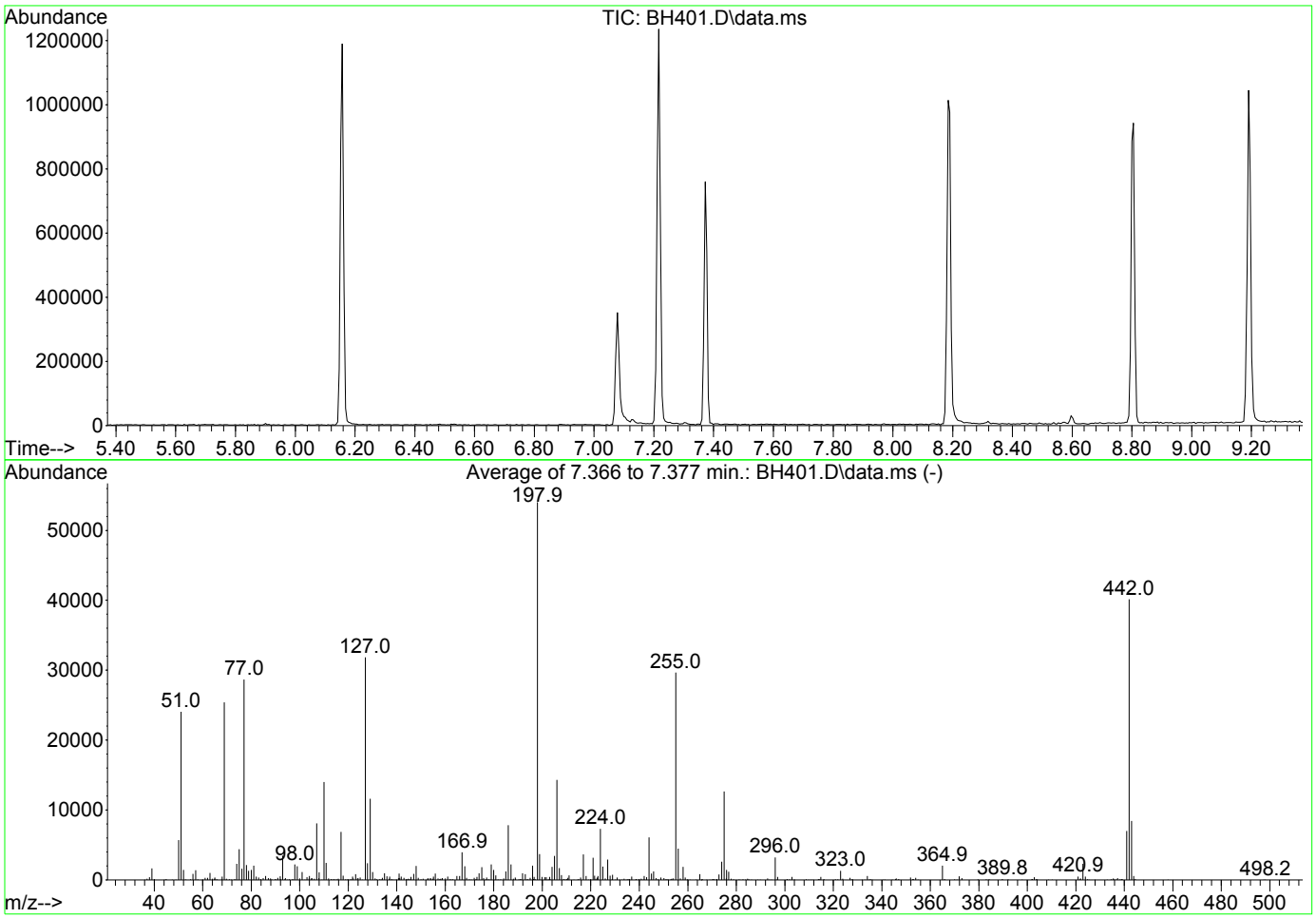
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	44.5	18917	PASS
68	69	0.00	2	0.9	183	PASS
70	69	0.00	2	0.2	32	PASS
127	198	10	80	56.1	23849	PASS
197	198	0.00	2	0.7	306	PASS
198	198	100	100	100.0	42544	PASS
199	198	5	9	6.1	2599	PASS
275	198	10	60	23.9	10182	PASS
365	198	1	500	3.1	1311	PASS
441	442	0.01	24	14.9	5109	PASS
442	442	100	100	100.0	34269	PASS
443	442	15	24	18.0	6152	PASS

1st DM 08/10/16
2nd BA 08/10/16

Data Path : I:\ACQUDATA\5973D\Data\080916\
Data File : BH401.D
Acq On : 9 Aug 2016 7:08 am
Operator : J.Misiurewicz
Sample : TUNE
Misc : 50 ng DFTPP
ALS Vial : 2 Sample Multiplier: 1

Integration File: RTEINT.P

Method : I:\ACQUDATA\5973D\Methods\TUNED.M
Title : TUNE CHECK
Last Update : Tue Jul 05 07:48:29 2016



AutoFind: Scans 745, 746, 747; Background Corrected with Scan 741

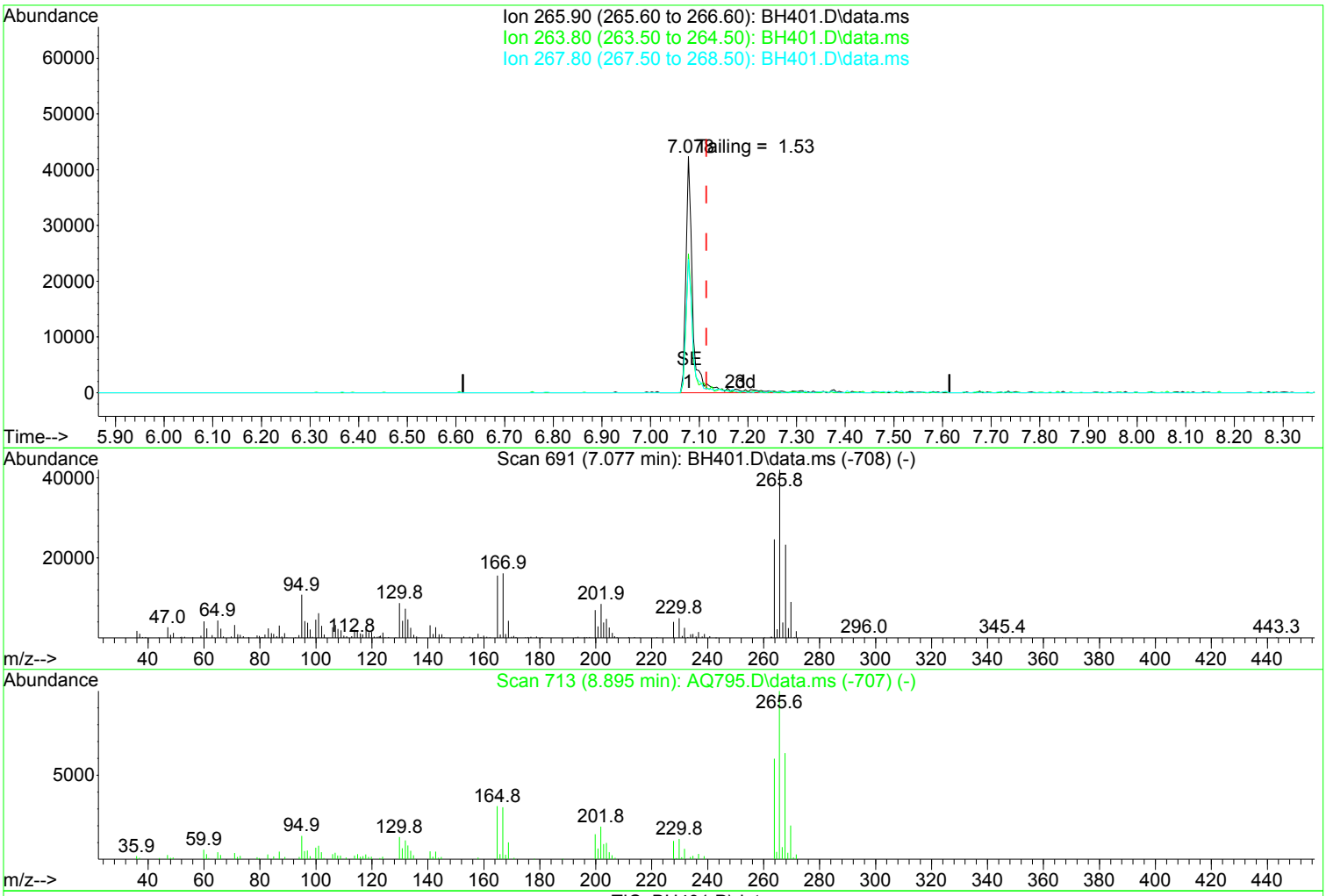
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	44.6	24068	PASS
68	69	0.00	2	1.8	460	PASS
70	69	0.00	2	0.6	165	PASS
127	198	10	80	58.9	31835	PASS
197	198	0.00	2	0.2	116	PASS
198	198	100	100	100.0	54019	PASS
199	198	5	9	6.8	3696	PASS
275	198	10	60	23.4	12661	PASS
365	198	1	500	3.8	2062	PASS
441	442	0.01	24	17.5	7026	PASS
442	442	100	100	100.0	40142	PASS
443	442	15	24	21.0	8426	PASS

1st DM 08/10/16
2nd BA 08/10/16

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\5973D\Data\080916\
Data File : BH401.D
Acq On : 9 Aug 2016 7:08 am
Operator : J.Misiurewicz
Sample : TUNE
Misc : 50 ng DFTPP
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 09 07:15:58 2016
Quant Method : I:\ACQUDATA\5973D\METHODS\TUNED.M
Quant Title : TUNE CHECK
QLast Update : Tue Jul 05 07:48:43 2016
Response via : Initial Calibration



(5) Pentachlorophenol (TCM)

7.077min (-0.037) 41.56 ppm

response 40365

Ion	Exp%	Act%
265.90	100.00	100.00
263.80	57.70	58.84
267.80	58.60	56.56
0.00	0.00	0.00

Manual Integration:

After

Other - Tailing

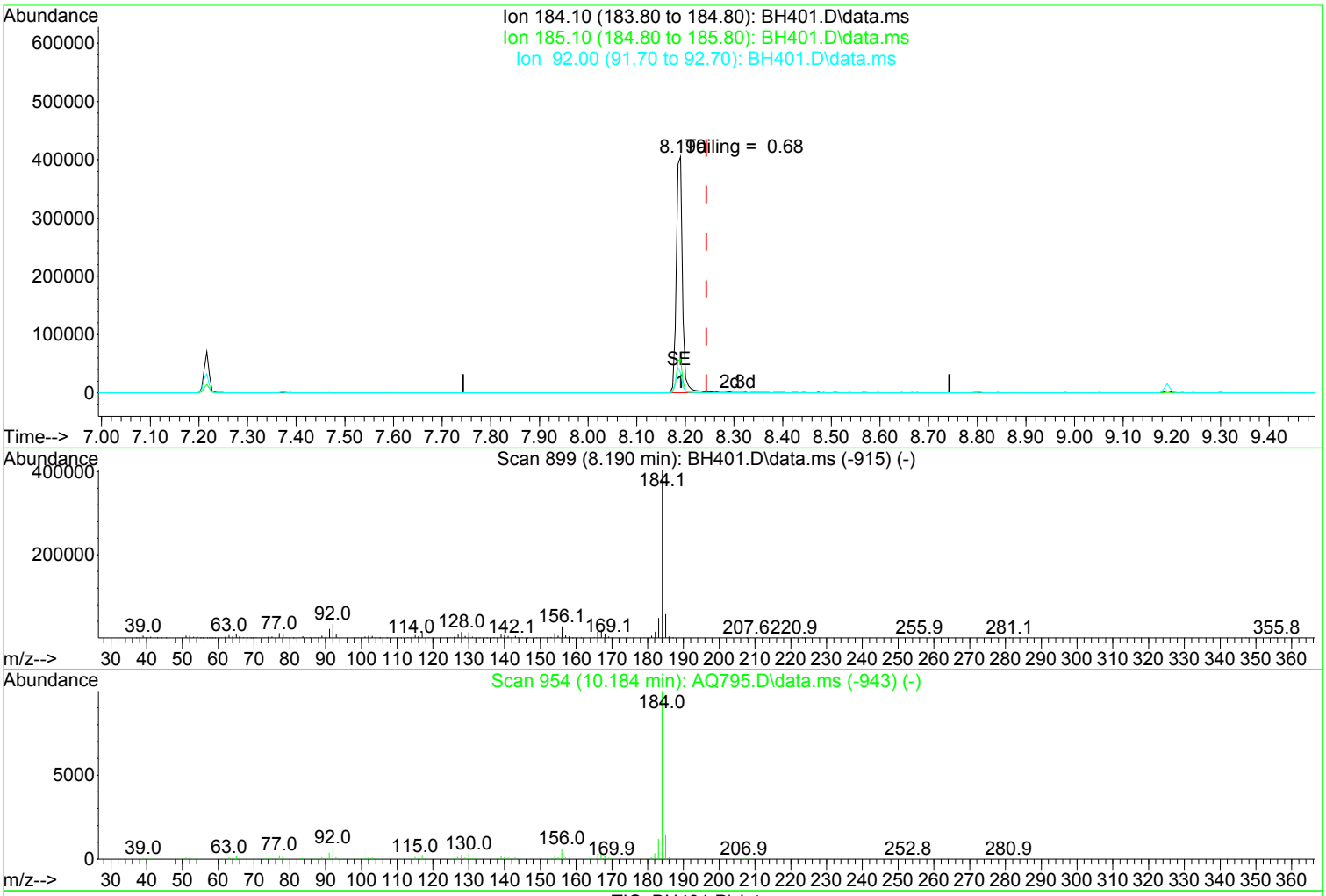
08/10/16

1st DM 08/10/16
2nd BA 08/10/16

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\5973D\Data\080916\
Data File : BH401.D
Acq On : 9 Aug 2016 7:08 am
Operator : J.Misiurewicz
Sample : TUNE
Misc : 50 ng DFTPP
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 09 07:15:58 2016
Quant Method : I:\ACQUDATA\5973D\METHODS\TUNED.M
Quant Title : TUNE CHECK
QLast Update : Tue Jul 05 07:48:43 2016
Response via : Initial Calibration



(8) Benzidine (T)

8.190min (-0.053) 53.81 ppm

response 356950

Ion	Exp%	Act%
184.10	100.00	100.00
185.10	14.90	14.25
92.00	8.00	8.35
0.00	0.00	0.00

Manual Integration:

After

Other - Tailing

08/10/16

1st DM 08/10/16
2nd BA 08/10/16

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\5973D\Data\080916\
Data File : BH401.D
Acq On : 9 Aug 2016 7:08 am
Operator : J.Misiurewicz
Sample : TUNE
Misc : 50 ng DFTPP
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 09 07:15:58 2016
Quant Method : I:\ACQUDATA\5973D\METHODS\TUNED.M
Quant Title : TUNE CHECK
QLast Update : Tue Jul 05 07:48:43 2016
Response via : Initial Calibration

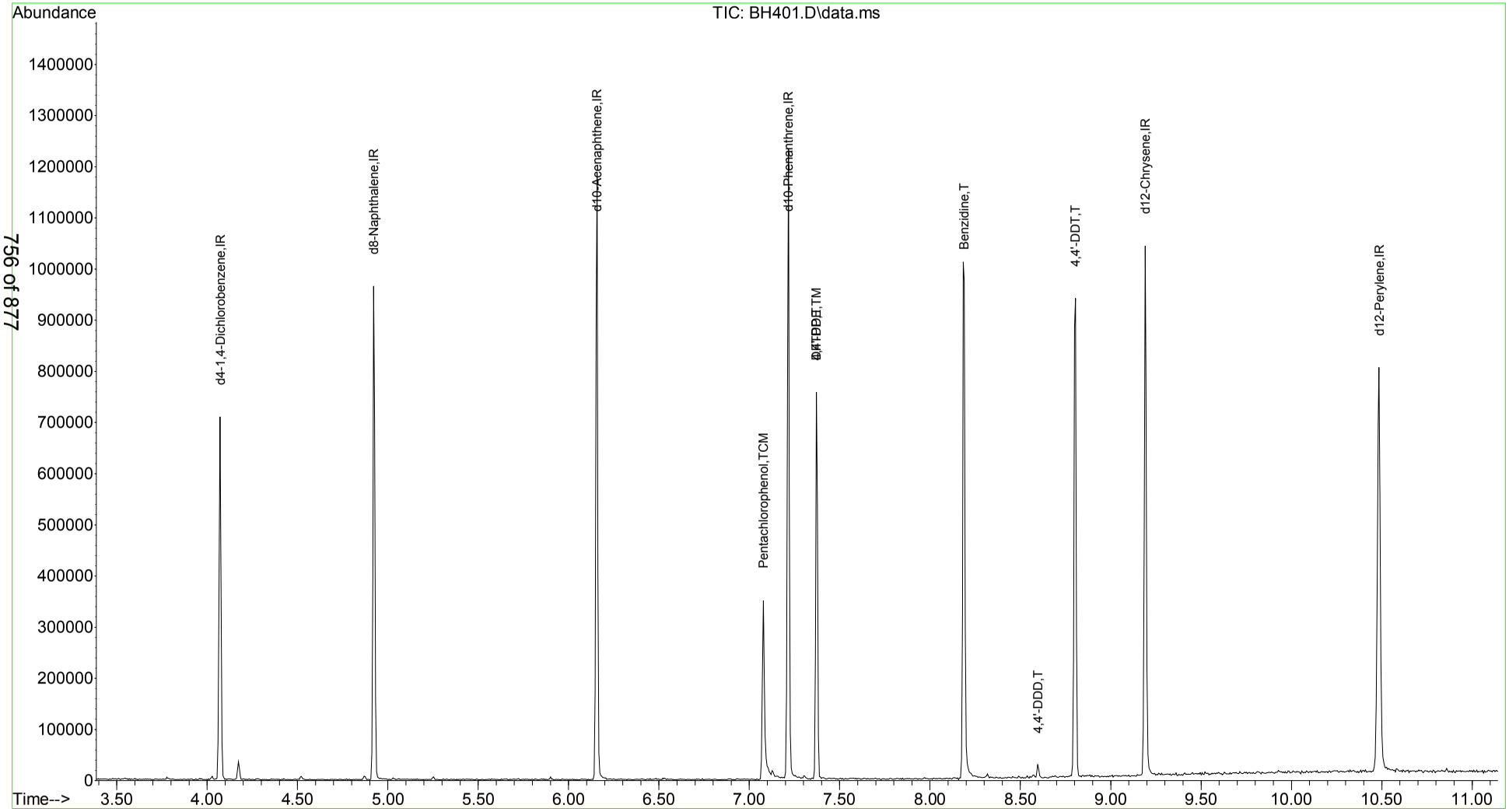
Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
Internal Standards						
1) d4-1,4-Dichlorobenzene	4.072	152	91789	40.00 ppm		-0.03
2) d8-Naphthalene	4.922	136	363125	40.00 ppm		-0.03
3) d10-Acenaphthene	6.158	164	208429	40.00 ppm		-0.03
4) d10-Phenanthrene	7.217	188	351786	40.00 ppm		-0.04
7) d12-Chrysene	9.190	240	287024	40.00 ppm		-0.10
12) d12-Perylene	10.485	264	309056	40.00 ppm		-0.12
Target Compounds						Qvalue
5) Pentachlorophenol	7.077	266	40365	41.56 ppm		98
6) DFTPP	7.372	198	55334	49.71 ppm	#	57
8) Benzidine	8.190	184	356950	53.81 ppm		99
9) 4,4'-DDE	7.372	246	1423	0.68 ppm		93
10) 4,4'-DDD	8.597	235	2524	1.20 ppm		84
11) 4,4'-DDT	8.805	235	142349	67.78 ppm		94

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

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\5973D\Data\080916\
Data File : BH401.D
Acq On : 9 Aug 2016 7:08 am
Operator : J.Misiurewicz
Sample : TUNE
Misc : 50 ng DFTPP
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 09 07:15:58 2016
Quant Method : I:\ACQUDATA\5973D\METHODS\TUNED.M
Quant Title : TUNE CHECK
QLast Update : Tue Jul 05 07:48:43 2016
Response via : Initial Calibration



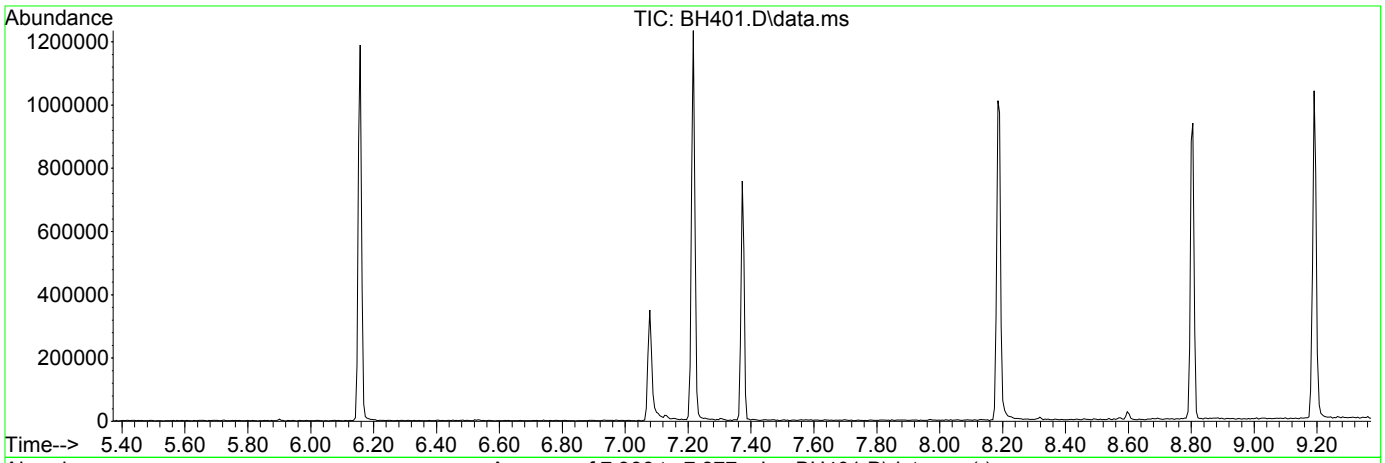
1st 08/10/16
2nd 08/10/16

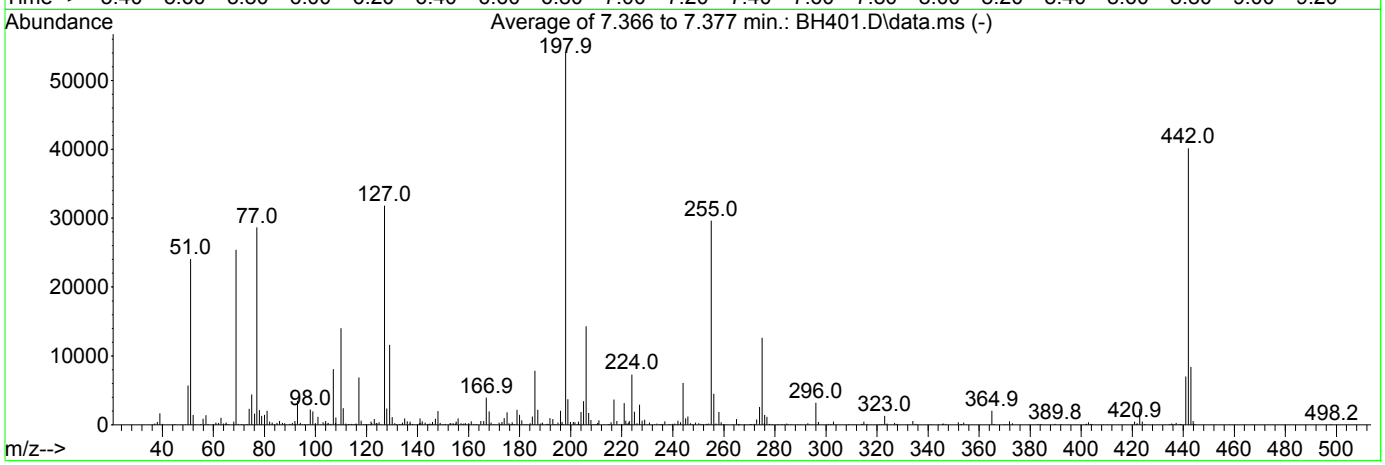
1st DM 08/10/16
2nd BA 08/10/16

Data Path : I:\ACQUDATA\5973D\Data\080916\
Data File : BH401.D
Acq On : 9 Aug 2016 7:08 am
Operator : J.Misiurewicz
Sample : TUNE
Misc : 50 ng DFTPP
ALS Vial : 2 Sample Multiplier: 1

Integration File: RTEINT.P

Method : I:\ACQUDATA\5973D\Methods\TUNCHECK.M
Title : TUNE CHECK
Last Update : Tue Apr 01 09:41:30 2014





AutoFind: Scans 745, 746, 747; Background Corrected with Scan 741

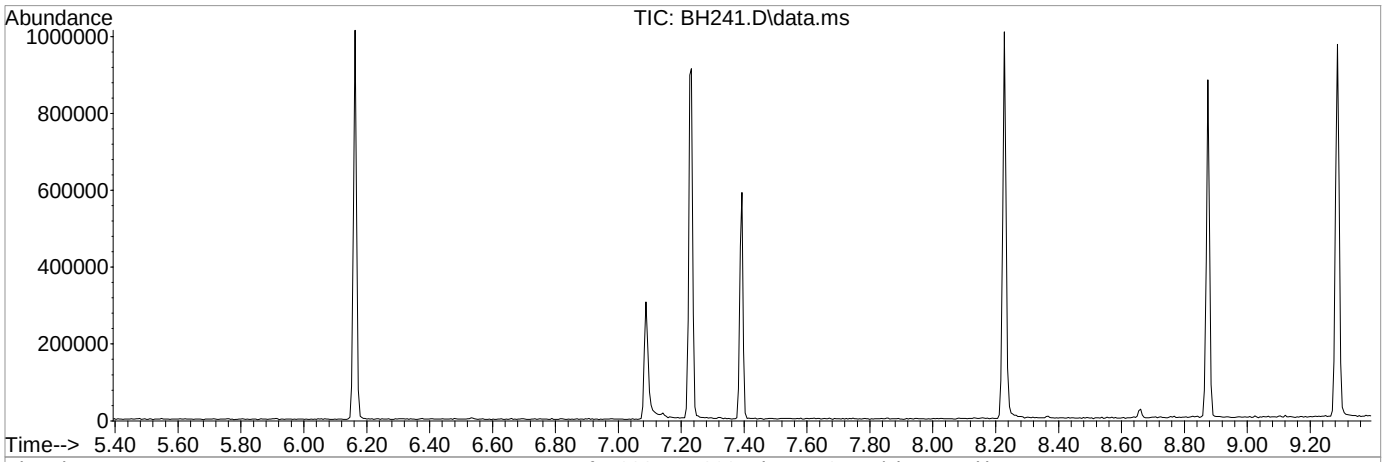
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	44.6	24068	PASS
68	69	0.00	2	1.8	460	PASS
69	198	0.00	100	47.1	25419	PASS
70	69	0.00	2	0.6	165	PASS
127	198	40	60	58.9	31835	PASS
197	198	0.00	1	0.2	116	PASS
198	198	100	100	100.0	54019	PASS
199	198	5	9	6.8	3696	PASS
275	198	10	30	23.4	12661	PASS
365	198	1	500	3.8	2062	PASS
441	443	0.01	100	83.4	7026	PASS
442	198	50	500	74.3	40142	PASS
443	442	17	23	21.0	8426	PASS

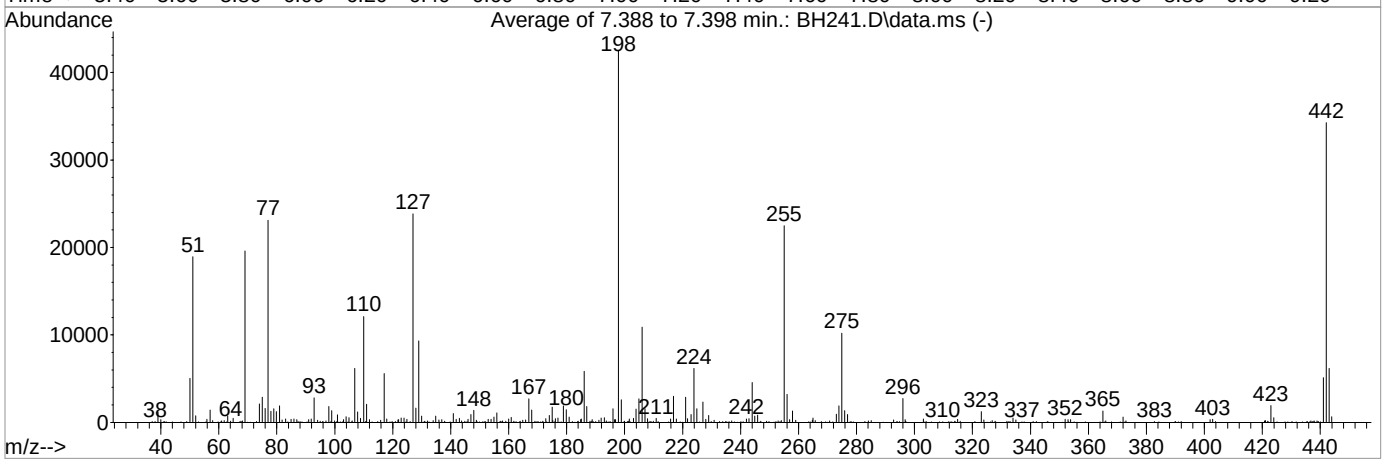
DFTPP

Data Path : I:\ACQUDATA\5973D\Data\072816\
Data File : BH241.D
Acq On : 28 Jul 2016 1:53 pm
Operator : J.Misiurewicz
Sample : TUNE Inst : 5973D
Misc : 50 ng DFTPP
ALS Vial : 2 Sample Multiplier: 1

Integration File: RTEINT.P

Method : I:\ACQUDATA\5973D\Methods\TUNCHECK.M
Title : TUNE CHECK
Last Update : Tue Apr 01 09:41:30 2014





AutoFind: Scans 749, 750, 751; Background Corrected with Scan 744

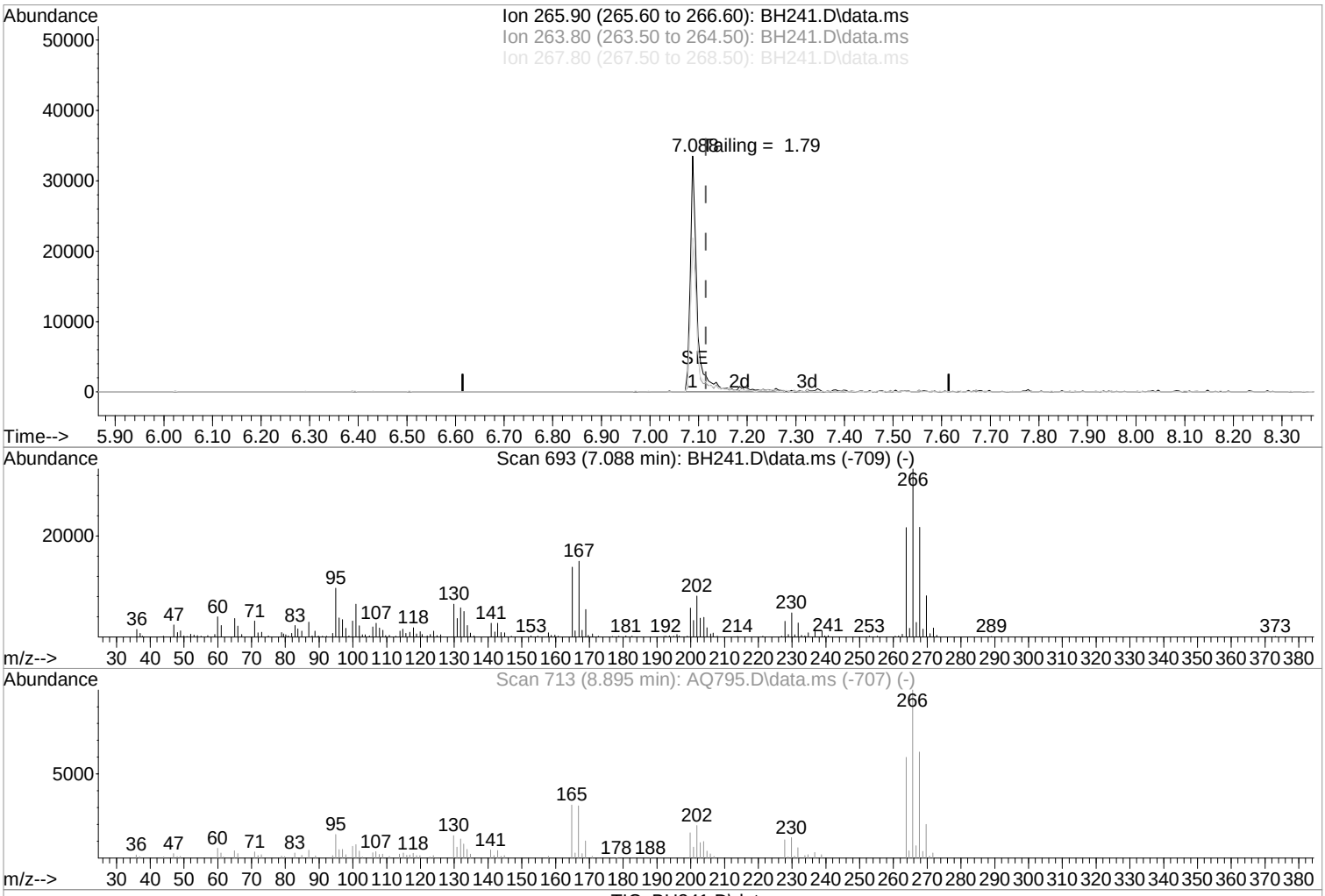
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	44.5	18917	PASS
68	69	0.00	2	0.9	183	PASS
69	198	0.00	100	46.1	19597	PASS
70	69	0.00	2	0.2	32	PASS
127	198	40	60	56.1	23849	PASS
197	198	0.00	1	0.7	306	PASS
198	198	100	100	100.0	42544	PASS
199	198	5	9	6.1	2599	PASS
275	198	10	30	23.9	10182	PASS
365	198	1	500	3.1	1311	PASS
441	443	0.01	100	83.0	5109	PASS
442	198	50	500	80.5	34269	PASS
443	442	17	23	18.0	6152	PASS

1st DM 07/29/16
2nd MW 07/29/16

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\5973D\Data\072816\
Data File : BH241.D
Acq On : 28 Jul 2016 1:53 pm
Operator : J.Misiurewicz
Sample : TUNE Inst : 5973D
Misc : 50 ng DFTPP
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 28 14:01:02 2016
Quant Method : I:\ACQUDATA\5973D\METHODS\TUNED.M
Quant Title : TUNE CHECK
QLast Update : Tue Jul 05 07:48:43 2016
Response via : Initial Calibration



(5) Pentachlorophenol (TCM)

7.088min (-0.027) 39.52 ppm

response 31989

Ion	Exp%	Act%
265.90	100	100
263.80	57.70	65.12
267.80	58.60	65.31
0.00	0.00	0.00

Manual Integration:

After

Other - Tailing

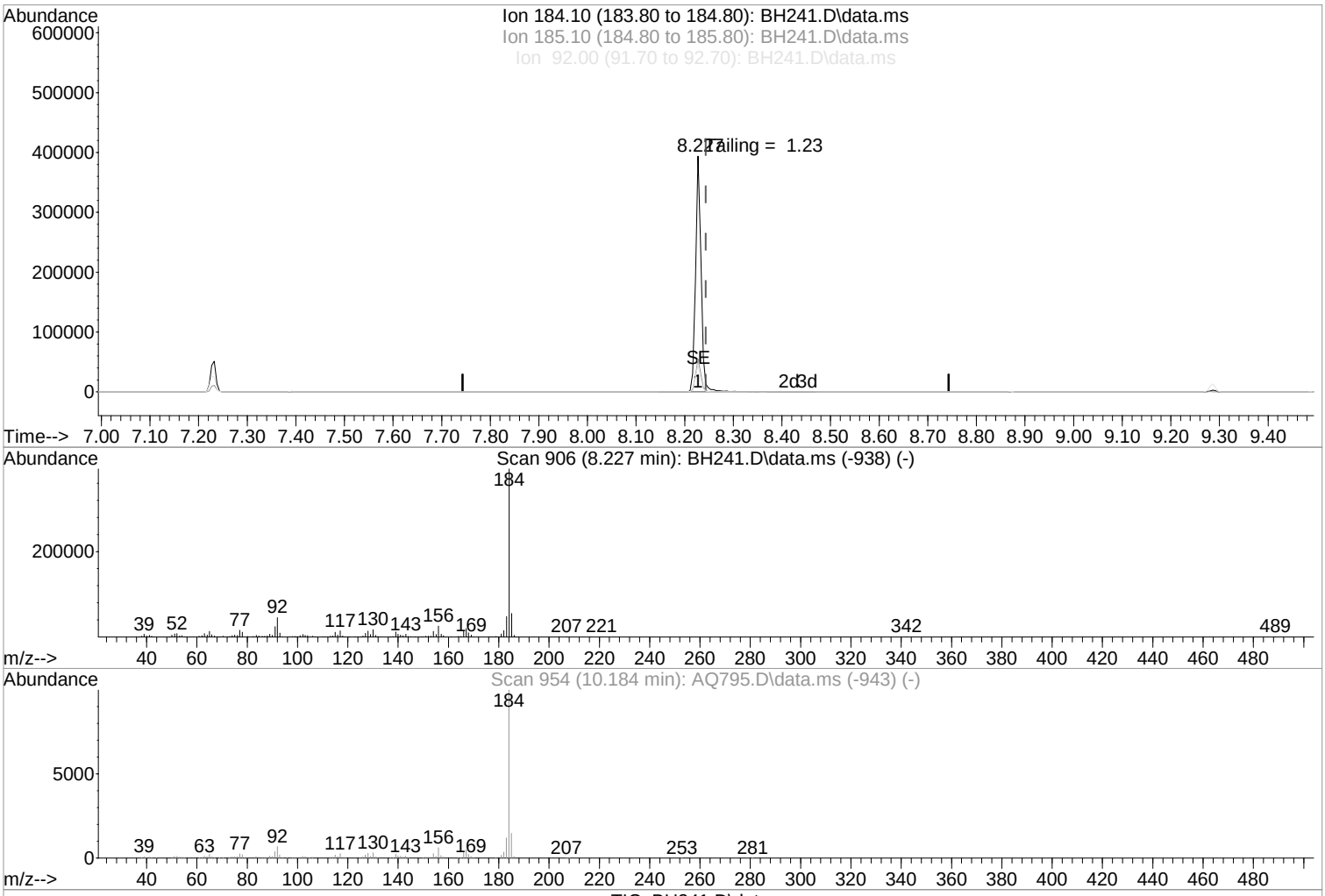
07/29/16

1st DM 07/29/16
2nd MW 07/29/16

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\5973D\Data\072816\
Data File : BH241.D
Acq On : 28 Jul 2016 1:53 pm
Operator : J.Misiurewicz
Sample : TUNE Inst : 5973D
Misc : 50 ng DFTPP
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 28 14:01:02 2016
Quant Method : I:\ACQUDATA\5973D\METHODS\TUNED.M
Quant Title : TUNE CHECK
QLast Update : Tue Jul 05 07:48:43 2016
Response via : Initial Calibration



TIC: BH241.D\data.ms

(8) Benzidine (T)

8.227min (-0.016) 50.12 ppm

response 311458

Ion	Exp%	Act%
184.10	100	100
185.10	14.90	13.98
92.00	8.00	11.54
0.00	0.00	0.00

Manual Integration:

After

Other - Tailing

07/29/16

1st DM 07/29/16
2nd MWC 07/29/16

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\5973D\Data\072816\
Data File : BH241.D
Acq On : 28 Jul 2016 1:53 pm
Operator : J.Misiurewicz
Sample : TUNE Inst : 5973D
Misc : 50 ng DFTPP
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 28 14:01:02 2016
Quant Method : I:\ACQUDATA\5973D\METHODS\TUNED.M
Quant Title : TUNE CHECK
QLast Update : Tue Jul 05 07:48:43 2016
Response via : Initial Calibration

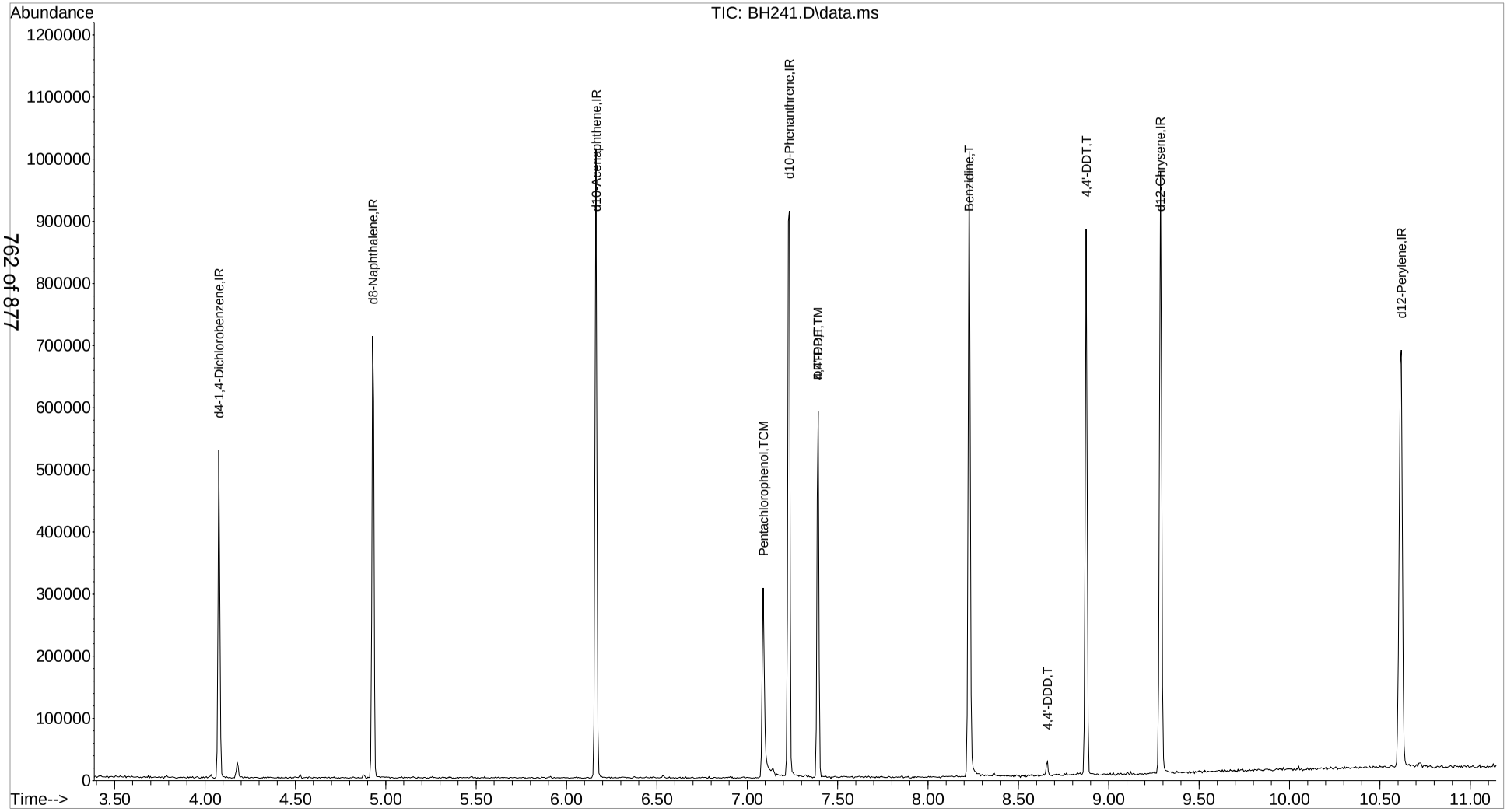
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) d4-1,4-Dichlorobenzene	4.077	152	65929	40.00 ppm	-0.03
2) d8-Naphthalene	4.927	136	275913	40.00 ppm	-0.03
3) d10-Acenaphthene	6.163	164	166384	40.00 ppm	-0.03
4) d10-Phenanthrene	7.232	188	293168	40.00 ppm	-0.02
7) d12-Chrysene	9.286	240	268889	40.00 ppm	0.00
12) d12-Perylene	10.618	264	267409	40.00 ppm	0.01
Target Compounds					Qvalue
5) Pentachlorophenol	7.088	266	31989	39.52 ppm	91
6) DFTPP	7.393	198	44091	47.53 ppm	82
8) Benzidine	8.227	184	311458	50.12 ppm	95
9) 4,4'-DDE	7.393	246	809	0.41 ppm	94
10) 4,4'-DDD	8.661	235	2399	1.22 ppm	89
11) 4,4'-DDT	8.874	235	113273	57.57 ppm	96

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

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\5973D\Data\072816\
Data File : BH241.D
Acq On : 28 Jul 2016 1:53 pm
Operator : J.Misiurewicz
Sample : TUNE Inst : 5973D
Misc : 50 ng DFTPP
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 28 14:01:02 2016
Quant Method : I:\ACQUDATA\5973D\METHODS\TUNED.M
Quant Title : TUNE CHECK
QLast Update : Tue Jul 05 07:48:43 2016
Response via : Initial Calibration



762 of 877

TUNED.M Fri Jul 29 09:41:31 2016 Page: 2

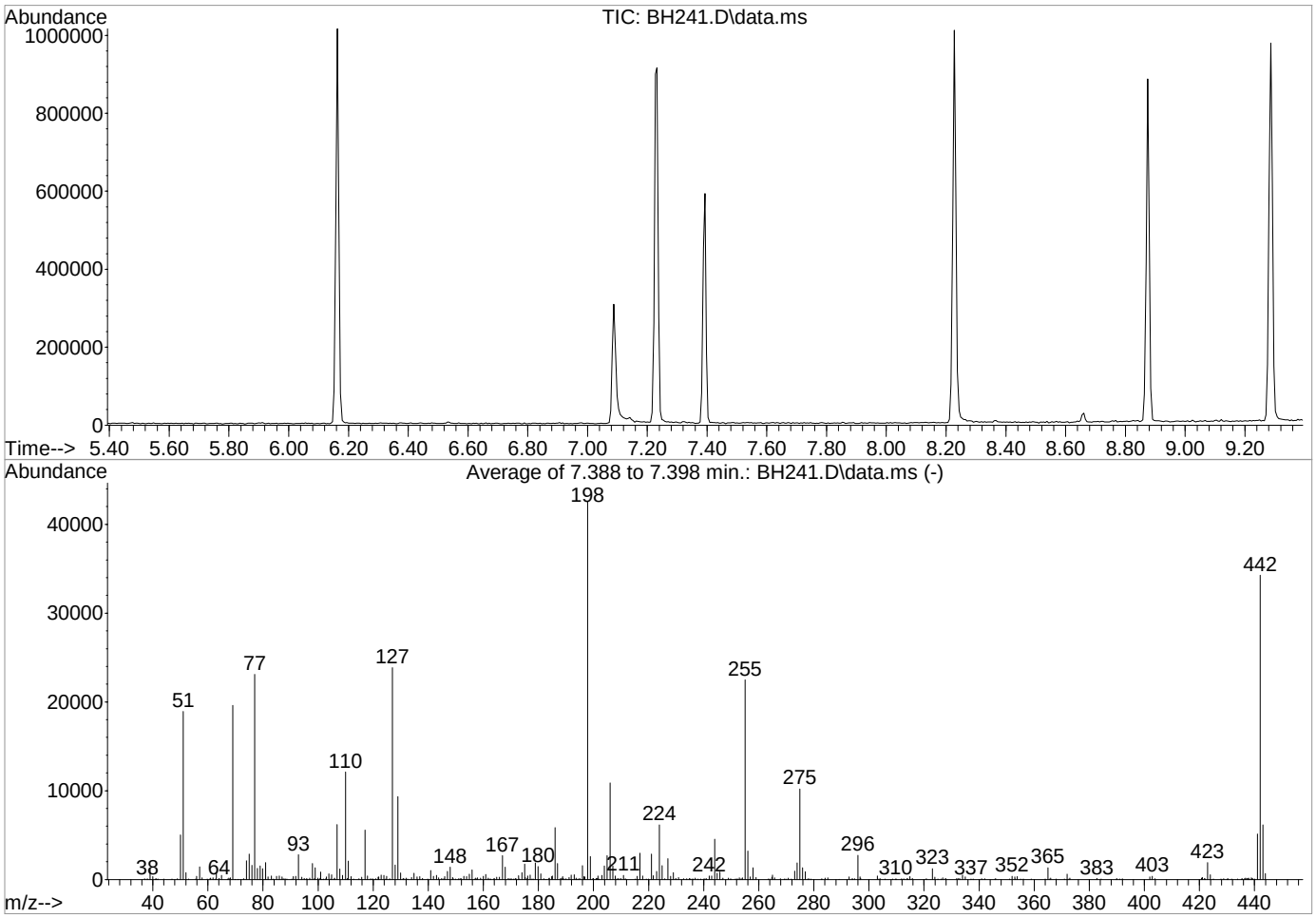
1st 07/29/16
2nd 07/29/16

DFTPP

Data Path : I:\ACQUDATA\5973D\Data\072816\
Data File : BH241.D
Acq On : 28 Jul 2016 1:53 pm
Operator : J.Misiurewicz
Sample : TUNE Inst : 5973D
Misc : 50 ng DFTPP
ALS Vial : 2 Sample Multiplier: 1

Integration File: RTEINT.P

Method : I:\ACQUDATA\5973D\METHODS\TUNED.M
Title : TUNE CHECK
Last Update : Tue Jul 05 07:48:29 2016



AutoFind: Scans 749, 750, 751; Background Corrected with Scan 744

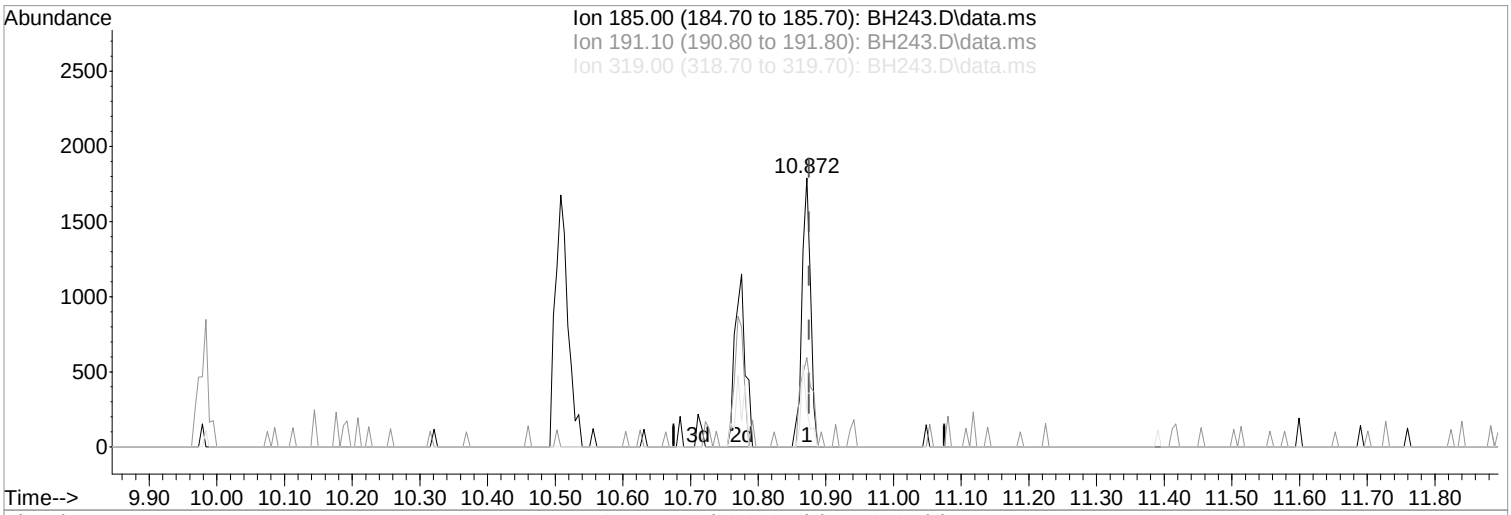
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	44.5	18917	PASS
68	69	0.00	2	0.9	183	PASS
70	69	0.00	2	0.2	32	PASS
127	198	10	80	56.1	23849	PASS
197	198	0.00	2	0.7	306	PASS
198	198	100	100	100.0	42544	PASS
199	198	5	9	6.1	2599	PASS
275	198	10	60	23.9	10182	PASS
365	198	1	500	3.1	1311	PASS
441	442	0.01	24	14.9	5109	PASS
442	442	100	100	100.0	34269	PASS
443	442	15	24	18.0	6152	PASS

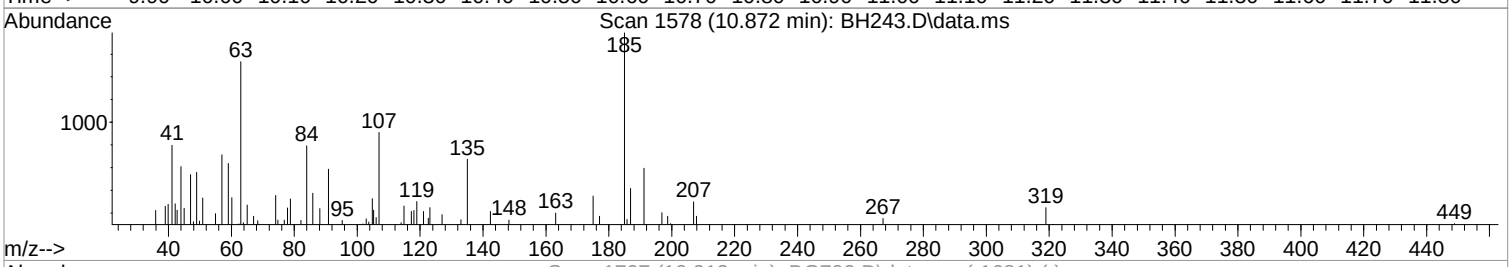
1st DM 07/29/16
2nd MW 07/29/16

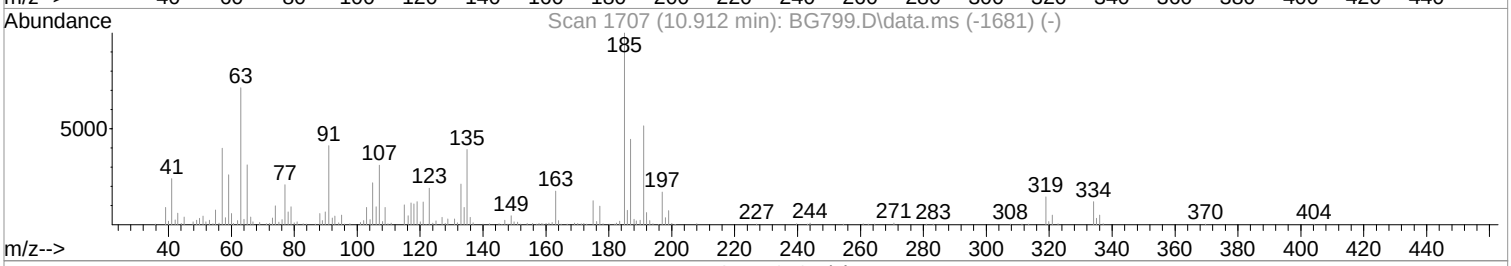
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\5973D\Data\072816\
Data File : BH243.D
Acq On : 28 Jul 2016 2:43 pm
Operator : J.Misiurewicz
Sample : 2.5 ppm STD Inst : 5973D
Misc : Initial Calibration 8270D/625
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jul 29 07:41:06 2016
Quant Method : I:\ACQUDATA\5973D\Methods\8270072816.M
Quant Title : 8270 BNA ANALYSIS
QLast Update : Fri Jul 29 07:31:03 2016
Response via : Initial Calibration







TIC: BH243.D\data.ms

(125) Aramite (TM)

10.872min (-0.004) 4.75 ppm m

response 2837

Ion	Exp%	Act%
185.00	100	100
191.10	48.70	33.26
319.00	15.90	13.86
0.00	0.00	0.00

Manual Integration:

After

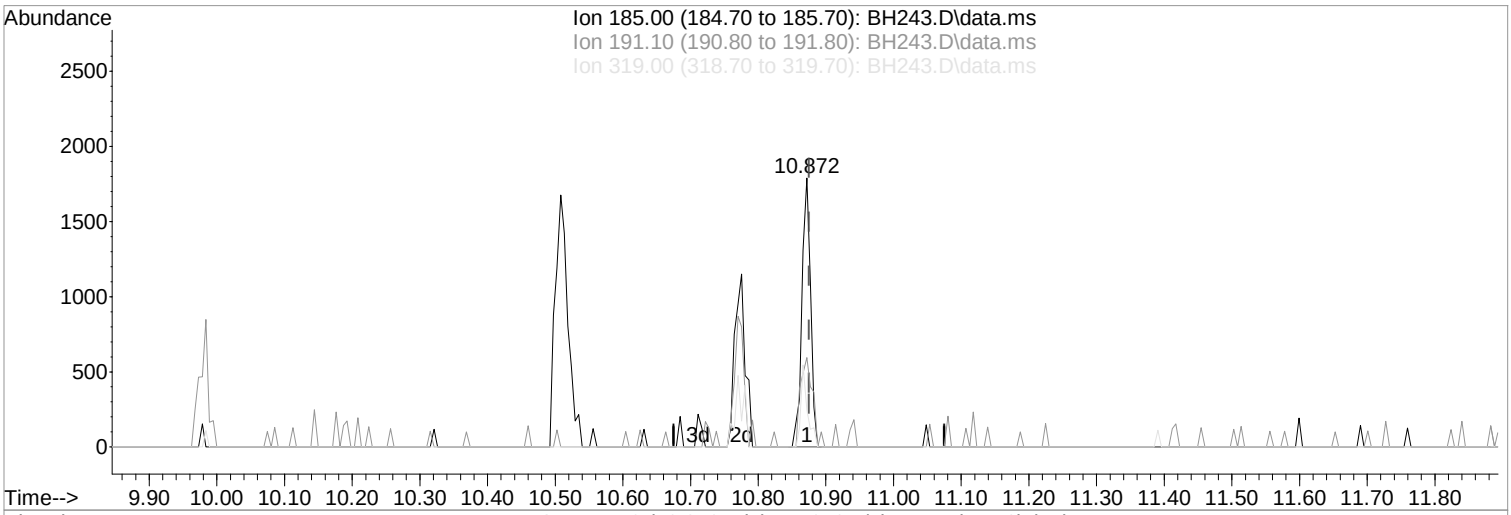
Split Peak

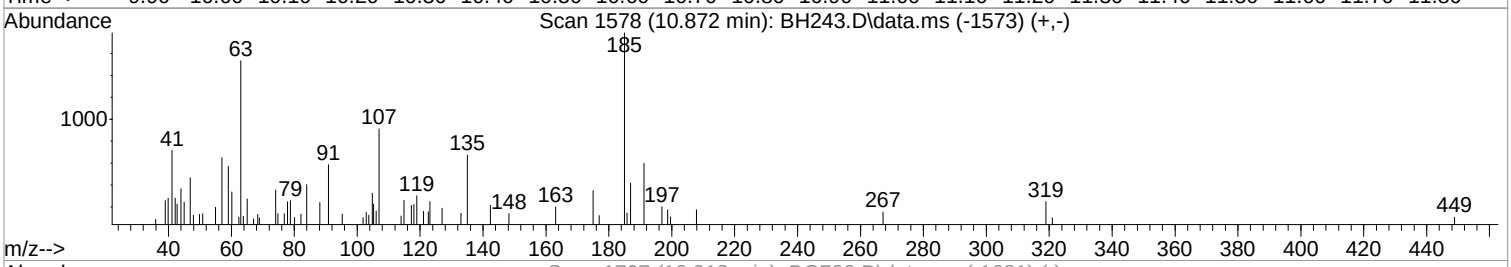
07/29/16

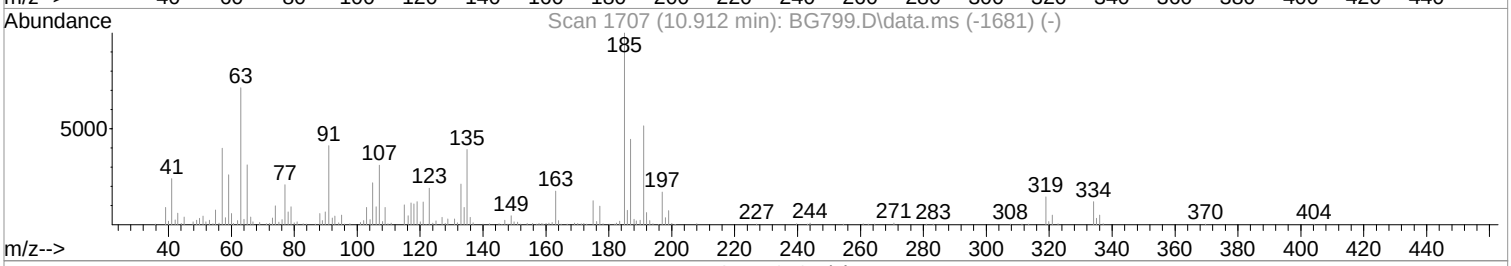
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\5973D\Data\072816\
Data File : BH243.D
Acq On : 28 Jul 2016 2:43 pm
Operator : J.Misiurewicz
Sample : 2.5 ppm STD Inst : 5973D
Misc : Initial Calibration 8270D/625
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jul 29 07:41:06 2016
Quant Method : I:\ACQUDATA\5973D\Methods\8270072816.M
Quant Title : 8270 BNA ANALYSIS
QLast Update : Fri Jul 29 07:31:03 2016
Response via : Initial Calibration







TIC: BH243.D\data.ms

(125) Aramite (TM)

10.872min (-0.004) 2.66 ppm

response 1586

Ion	Exp%	Act%
185.00	100	100
191.10	48.70	30.46
319.00	15.90	13.86
0.00	0.00	0.00

Manual Integration:

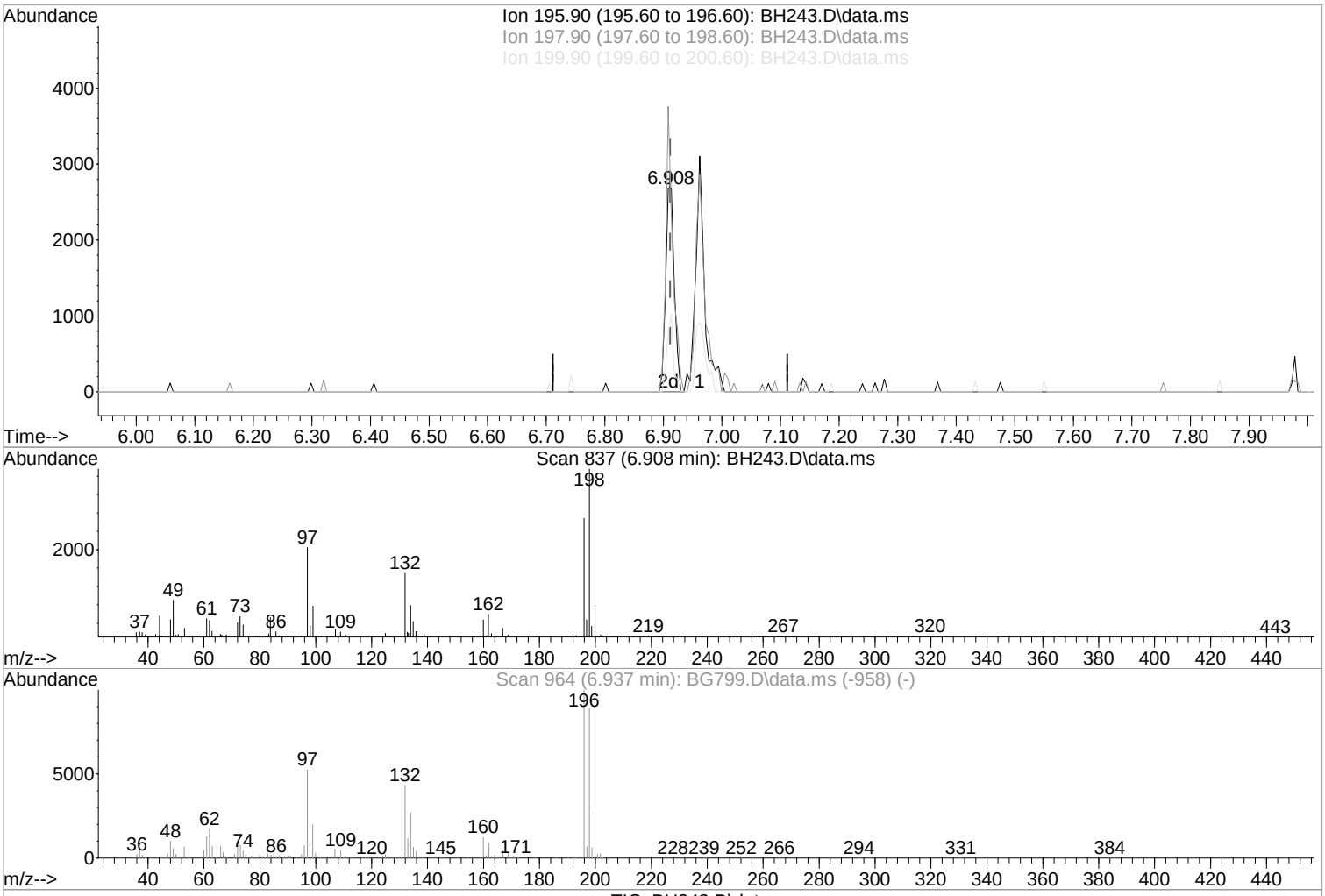
Before

07/29/16

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\5973D\Data\072816\
Data File : BH243.D
Acq On : 28 Jul 2016 2:43 pm
Operator : J.Misiurewicz
Sample : 2.5 ppm STD Inst : 5973D
Misc : Initial Calibration 8270D/625
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jul 29 07:41:06 2016
Quant Method : I:\ACQUDATA\5973D\Methods\8270072816.M
Quant Title : 8270 BNA ANALYSIS
QLast Update : Fri Jul 29 07:31:03 2016
Response via : Initial Calibration



(61) 2,4,6-Trichlorophenol (TCM)

6.908min (-0.004) 1.99 ppm m

response 2786

Ion	Exp%	Act%
195.90	100	100
197.90	94.40	140.14#
199.90	32.50	29.48
0.00	0.00	0.00

Manual Integration:

After

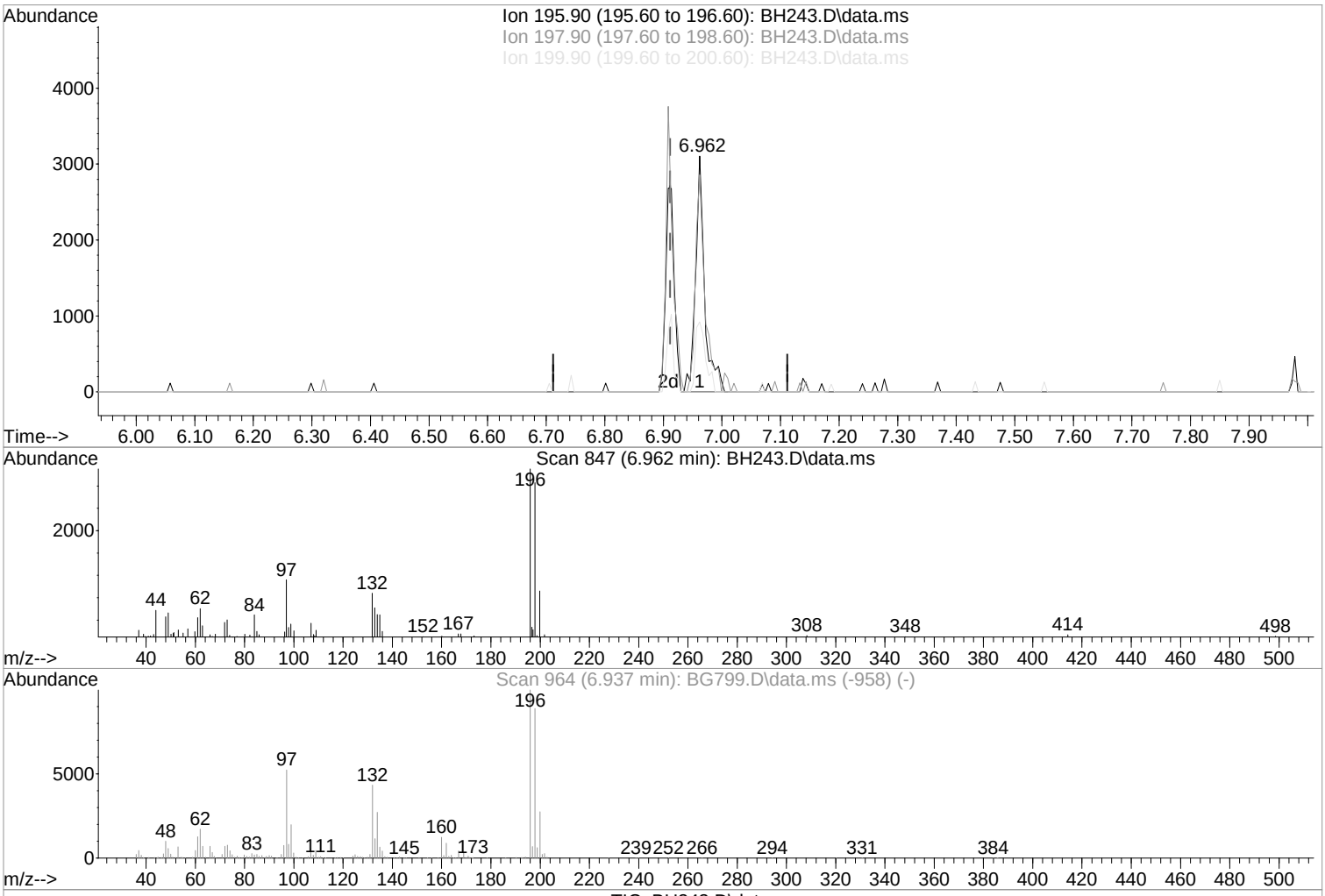
Wrong peak selected.

07/29/16

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\5973D\Data\072816\
Data File : BH243.D
Acq On : 28 Jul 2016 2:43 pm
Operator : J.Misiurewicz
Sample : 2.5 ppm STD Inst : 5973D
Misc : Initial Calibration 8270D/625
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jul 29 07:41:06 2016
Quant Method : I:\ACQUDATA\5973D\Methods\8270072816.M
Quant Title : 8270 BNA ANALYSIS
QLast Update : Fri Jul 29 07:31:03 2016
Response via : Initial Calibration



(61) 2,4,6-Trichlorophenol (TCM)

6.962min (+0.050) 2.41 ppm

response 3381

Ion	Exp%	Act%
195.90	100	100
197.90	94.40	84.58
199.90	32.50	27.29
0.00	0.00	0.00

Manual Integration:

Before

07/29/16

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\5973D\Data\072816\
Data File : BH243.D
Acq On : 28 Jul 2016 2:43 pm
Operator : J.Misiurewicz
Sample : 2.5 ppm STD Inst : 5973D
Misc : Initial Calibration 8270D/625
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jul 29 07:44:47 2016
Quant Method : I:\ACQUDATA\5973D\Methods\8270072816.M
Quant Title : 8270 BNA ANALYSIS
QLast Update : Fri Jul 29 07:31:03 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) d4-1,4-Dichlorobenzene	4.790	152	72271	40.00	ppm	0.00
33) d8-Naphthalene	5.946	136	303491	40.00	ppm	0.00
57) d10-Acenaphthene	7.652	164	175760	40.00	ppm	0.00
91) d10-Phenanthrene	9.117	188	300036	40.00	ppm	0.00
117) d12-Chrysene	12.375	240	273929	40.00	ppm	-0.01
135) d12-Perylene	15.306	264	282440	40.00	ppm	0.00
System Monitoring Compounds						
7) SURR1,2-FLUOROPHENOL	3.721	112	6095	2.24	ppm	0.00
Spiked Amount 200.000	Range 10 - 105		Recovery	=	1.12%#	
12) SURR2,PHENOL-D6	4.464	99	6988	2.22	ppm	0.00
Spiked Amount 200.000	Range 10 - 107		Recovery	=	1.11%#	
34) SURR4,NITROBENZENE-D5	5.277	82	5516	2.30	ppm	0.00
Spiked Amount 100.000	Range 31 - 110		Recovery	=	2.30%#	
63) SURR5,2-FLUOROBIPHENYL	6.983	172	14699	2.61	ppm	0.00
Spiked Amount 100.000	Range 31 - 118		Recovery	=	2.61%#	
88) SURR3,2,4,6-TRIBROMOPH...	8.433	330	1304	1.95	ppm	0.00
Spiked Amount 200.000	Range 35 - 141		Recovery	=	0.97%#	
124) SURR6,TERPHENYL-D14	10.802	244	12707	2.26	ppm	0.00
Spiked Amount 100.000	Range 30 - 133		Recovery	=	2.26%#	
Target Compounds						Qvalue
2) Pyridine	2.752	79	7810	2.72	ppm	95
3) N-Nitrosodimethylamine	2.699	74	3877	2.35	ppm	93
4) 2-Picoline	3.293	93	6661	2.33	ppm	97
5) N-Nitrosomethylamine	3.362	42	4820	3.25	ppm	96
6) Methyl Methansulfonate	3.587	80	3187	2.40	ppm	94
8) N-Nitrosodiethylamine	3.897	102	2443	2.17	ppm	96
9) Ethyl Mathanesulfonate	4.127	79	4903	2.31	ppm	98
10) Benzaldehyde	4.421	106	4194	2.44	ppm	92
11) Aniline	4.502	93	10878	2.38	ppm	80
13) Phenol	4.469	94	8045	2.52	ppm	90
14) bis(2-Clethyl)Ether	4.544	93	6303	2.56	ppm	94
15) Pentachloroethane	4.550	117	2267	2.54	ppm	98
16) 2-Chlorophenol	4.608	128	5585	2.17	ppm	98
17) 1,3-Diclbenzene	4.737	146	6750	2.40	ppm	98
18) 1,4-Dichlorobenzene	4.801	146	7477	2.57	ppm	95
19) 1,2-Diclbenzene	4.935	146	6701	2.41	ppm	78
20) Benzyl Alcohol	4.903	79	4477	2.36	ppm	92
21) 1-Methyl-2-pyrrolidinone	4.929	99	4640	2.42	ppm #	78
22) 2,2'-oxybis(1-Chloropr...	5.010	45	8603	2.47	ppm #	75
23) 2-Methylphenol	4.999	108	6275	2.61	ppm	72
24) 3+4-Methylphenol	5.133	108	5460	2.16	ppm	99
25) Acetophenone	5.138	105	10326	2.51	ppm	87
26) N-Nitroso-Di-n-propyla...	5.127	70	5206	2.40	ppm	92
27) N-Nitrosopyrrolidine	5.122	100	3431	2.24	ppm	87
28) N-Nitrosomorpholine	5.154	56	4498	2.66	ppm	84
29) o-Toluidine	5.170	106	10065	2.35	ppm	95
30) Hexachloroethane	5.240	117	2430	2.09	ppm	96
31) o,o,o-Triethylphosphor...	5.673	198	3486	2.72	ppm	86
32) Alpha-terpinol	5.967	121	2430	2.34	ppm	89
35) Nitrobenzene	5.298	77	5692	2.40	ppm	92
36) N-Nitrosopiperidine	5.432	42	4138	2.51	ppm	96
37) Isophorone	5.507	82	11915	2.53	ppm	98
38) 2-Nitrophenol	5.587	139	2076	1.92	ppm	84

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\5973D\Data\072816\
Data File : BH243.D
Acq On : 28 Jul 2016 2:43 pm
Operator : J.Misiurewicz
Sample : 2.5 ppm STD Inst : 5973D
Misc : Initial Calibration 8270D/625
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jul 29 07:44:47 2016
Quant Method : I:\ACQUDATA\5973D\Methods\8270072816.M
Quant Title : 8270 BNA ANALYSIS
QLast Update : Fri Jul 29 07:31:03 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
40) 2,4-Dimethylphenol	5.619	107	5814	2.41 ppm	#	84
41) bis(-2-Chloroethoxy)Me...	5.705	93	7472	2.50 ppm		96
42) 2,4-Dichlorophenol	5.823	162	4458	2.32 ppm		95
43) a,a-Dimethylphenethyla...	5.812	58	16398	2.47 ppm		94
44) 1,2,4-Trichlorobenzene	5.892	180	6037	2.69 ppm		97
45) Naphthalene	5.967	128	20503	2.73 ppm		97
46) 4-Chloroaniline	6.021	127	7798	2.44 ppm		95
47) 2,6-Dichlorophenol	6.026	162	5277	2.62 ppm		99
48) Hexachlorobutadiene	6.074	225	3144	2.56 ppm		95
49) Hexachloropropene	6.047	213	3714	2.54 ppm		84
50) 4-Chloro-3-methylphenol	6.491	107	4397	2.15 ppm		83
51) N-N-di-n-butylamine	6.331	84	6440	3.27 ppm		91
52) Caprolactam	6.347	113	2188	2.54 ppm		83
53) p-Phenylenediamine	6.368	80	702	2.41 ppm	#	62
54) Safrole	6.545	162	4527	2.50 ppm		92
55) 2-Methylnaphthalene	6.630	142	12093	2.53 ppm		99
56) 1-Methylnaphthalene	6.732	142	11848	2.61 ppm		95
58) Hexachlorocyclopentadiene	6.780	237	682	3.22 ppm		75
59) 1,2,4,5-Tetrachloroben...	6.796	216	5917	2.70 ppm		87
60) 1,2,3,4-Tetrachloroben...	7.069	216	5615	2.42 ppm		94
61) 2,4,6-Trichlorophenol	6.908	196	2786m	1.99 ppm		
62) 2,4,5-Trichlorophenol	6.962	196	3381	2.39 ppm		91
64) Isosafrole	7.047	104	2551	2.48 ppm	#	52
65) 1,1'-Biphenyl	7.085	154	15578	2.38 ppm		96
66) 2-Chloronaphthalene	7.106	162	12663	2.55 ppm		99
67) 2-Nitroaniline	7.208	65	2612	2.02 ppm		88
68) 1,4-Naphthoquinone	7.283	158	2137	2.16 ppm		80
69) m-Dinitrobenzene	7.422	168	1177	3.83 ppm	#	47
70) Acenaphthylene	7.513	152	18463	2.43 ppm		95
71) Dimethyl phthalate	7.379	163	12775	2.49 ppm		98
72) 2,6-Dinitrotoluene	7.449	165	1890	1.87 ppm		82
73) Acenaphthene	7.684	153	13310	2.65 ppm		99
74) 3-Nitroaniline	7.614	138	2367	1.77 ppm		74
76) Dibenzofuran	7.850	168	17698	2.62 ppm		99
77) 2,4-Dinitrotoluene	7.844	165	1833	3.41 ppm		86
79) Pentachlorobenzene	7.812	250	4717	2.48 ppm		95
80) 1-Napthylamine	7.930	143	13045	2.61 ppm		96
81) 2-Napthylamine	8.010	143	13474	2.54 ppm		98
82) 2,3,4,6-Tetrachlorophenol	7.978	232	1274	1.29 ppm	#	16
83) Fluorene	8.192	166	14545	2.62 ppm		92
84) 4-Chlorophenyl-phenyle...	8.187	204	5787	2.29 ppm		92
85) Diethylphthalate	8.069	149	13095	2.44 ppm		95
86) 4-Nitroaniline	8.213	138	2847	1.97 ppm		81
87) 5-Nitro-o-toluidine	8.203	152	2390	1.61 ppm		84
89) Sulfotepp	8.454	322	1751	2.51 ppm		83
90) Octachlorocyclopentene	8.433	307	1291	1.78 ppm		97
92) Thionazin	8.149	107	2608	2.43 ppm		95
94) Diphenylamine	8.304	169	24925	5.06 ppm		98
95) 1,2 Diphenylhydrazine	8.342	77	15441	2.43 ppm		94
96) N-Nitrosodiphenylamine	8.304	169	24925	5.06 ppm		98
98) Diallate	8.583	86	6368	2.63 ppm		92
99) Phorate	8.593	121	2872	2.42 ppm		95
100) Phenacetin	8.609	108	6081	1.91 ppm		87
101) 4-Bromophenyl-phenylether	8.673	248	3641	2.44 ppm		84
102) Hexachlorobenzene	8.727	284	4026	2.38 ppm		91
103) Dimethoate	8.764	87	4951	2.36 ppm		94

1st DM 07/29/16
2nd MW 07/29/16

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\5973D\Data\072816\
Data File : BH243.D
Acq On : 28 Jul 2016 2:43 pm
Operator : J.Misiurewicz
Sample : 2.5 ppm STD Inst : 5973D
Misc : Initial Calibration 8270D/625
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jul 29 07:44:47 2016
Quant Method : I:\ACQUDATA\5973D\Methods\8270072816.M
Quant Title : 8270 BNA ANALYSIS
QLast Update : Fri Jul 29 07:31:03 2016
Response via : Initial Calibration

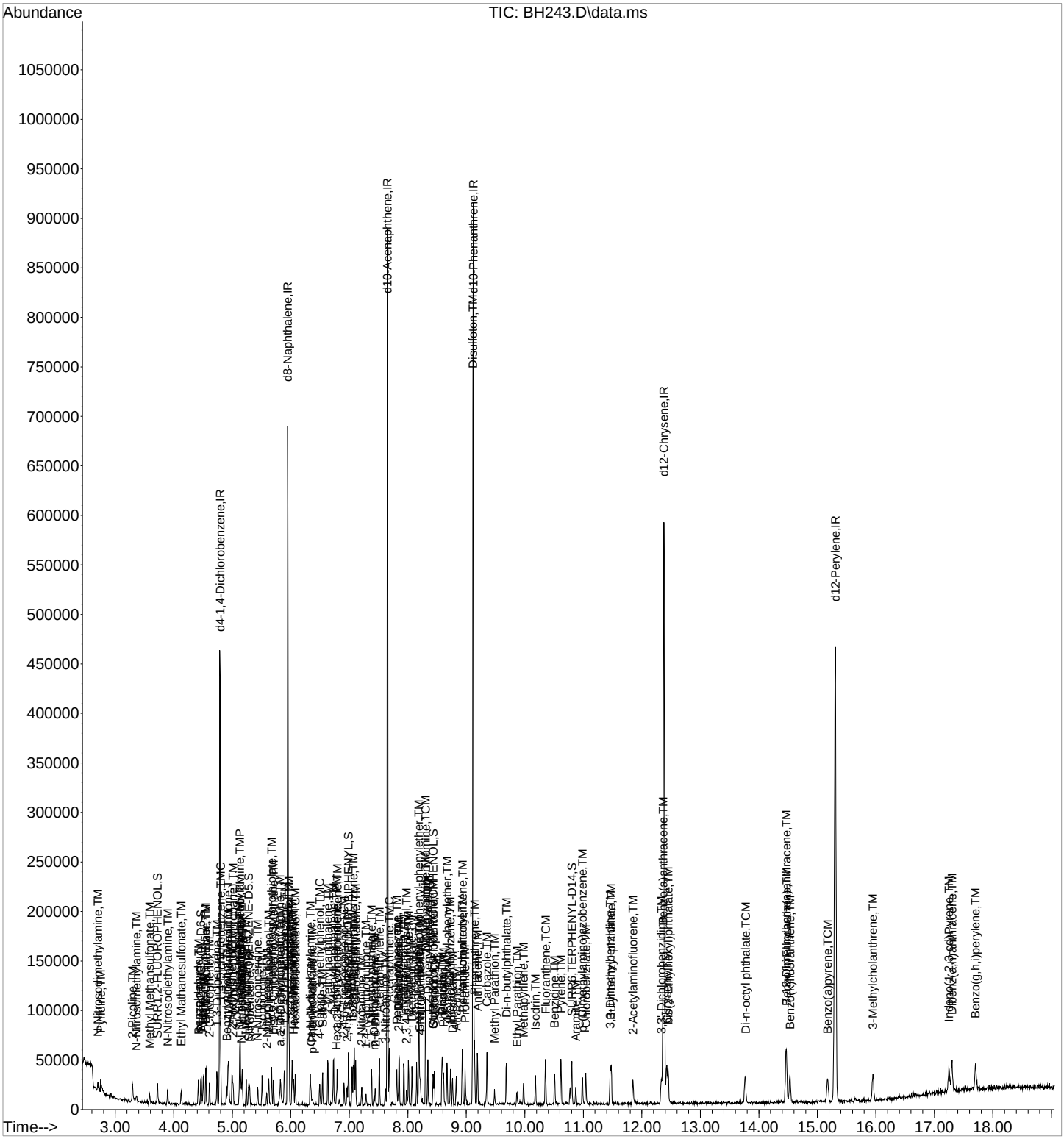
Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
104) Atrazine	8.829	215	1176	1.69 ppm		98
106) 4-Aminobiphenyl	8.930	169	13474	2.29 ppm		94
107) Pentachloronitrobenzene	8.936	237	1047	1.79 ppm		62
108) Pronamide	8.978	173	4869	1.79 ppm		93
110) Disulfoton	9.112	88	9624	3.10 ppm		81
111) Phenanthrene	9.139	178	20327	2.56 ppm		95
112) Anthracene	9.192	178	19469	2.45 ppm		97
113) Carbazole	9.353	167	19477	2.31 ppm		98
114) Di-n-butylphthalate	9.684	149	18605	1.95 ppm		95
116) Fluoranthene	10.353	202	18135	2.14 ppm		92
118) Methyl Parathion	9.481	109	1779	1.37 ppm		78
119) Ethyl Parathion	9.866	97	1435	5.09 ppm		79
120) Methapyrilene	9.979	58	6157	2.81 ppm		99
121) Isodrin	10.182	193	2085	2.65 ppm		87
122) Benzidine	10.508	184	13501	2.40 ppm		98
123) Pyrene	10.615	202	19971	2.31 ppm		96
125) Aramite	10.872	185	2837m	4.75 ppm		
126) p-(Dimethylamino)azobe...	10.984	120	5332	2.05 ppm		90
127) Chlorobenzilate	11.043	139	7107	2.42 ppm		86
128) Butyl benzyl phthalate	11.476	149	10634	2.43 ppm		90
129) 3,3-Dimethylbenzidine	11.455	212	13113	2.34 ppm		95
130) 2-Acetylaminofluorene	11.845	181	8224	2.21 ppm		94
131) 3,3'-Dichlorobenzidine	12.332	252	7301	2.38 ppm		96
132) Benzo(a)anthracene	12.359	228	19536	2.51 ppm		97
133) Chrysene	12.428	228	17628	2.37 ppm		97
134) bis(2-Ethylhexyl)phtha...	12.450	149	14343	2.30 ppm		88
136) Di-n-octyl phthalate	13.771	149	23907	2.16 ppm		97
137) 7,12-Dimethylbenz(a)an...	14.466	256	9227	2.26 ppm		91
138) Benzo(b)Fluoranthene	14.471	252	17732	2.18 ppm		88
139) Benzo(k)fluoranthene	14.530	252	16926	2.23 ppm		98
140) Benzo(a)pyrene	15.172	252	15328	2.19 ppm		98
141) 3-Methylcholanthrene	15.948	268	8176	1.99 ppm		97
142) Indeno(1,2,3-cd)Pyrene	17.247	276	14211	2.57 ppm		93
143) Dibenz(a,h)anthracene	17.301	278	15805	2.50 ppm	#	78
144) Benzo(g,h,i)perylene	17.702	276	15354	2.77 ppm		97

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

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\5973D\Data\072816\
Data File : BH243.D
Acq On : 28 Jul 2016 2:43 pm
Operator : J.Misiurewicz
Sample : 2.5 ppm STD Inst : 5973D
Misc : Initial Calibration 8270D/625
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jul 29 07:44:47 2016
Quant Method : I:\ACQUDATA\5973D\Methods\8270072816.M
Quant Title : 8270 BNA ANALYSIS
QLast Update : Fri Jul 29 07:31:03 2016
Response via : Initial Calibration

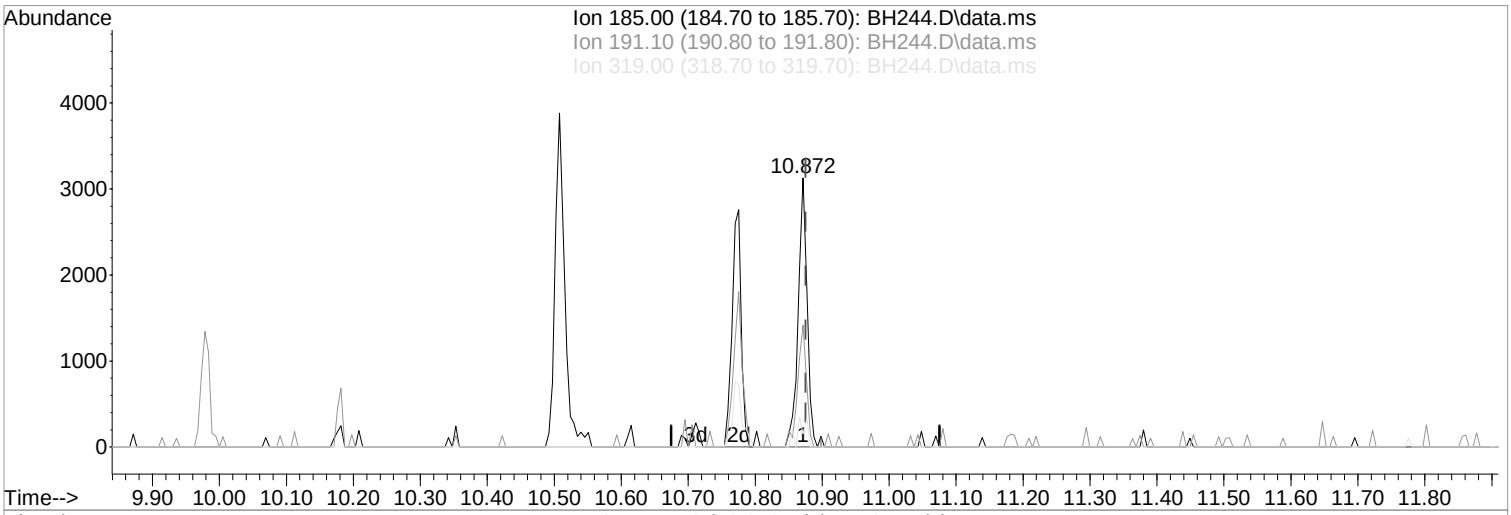


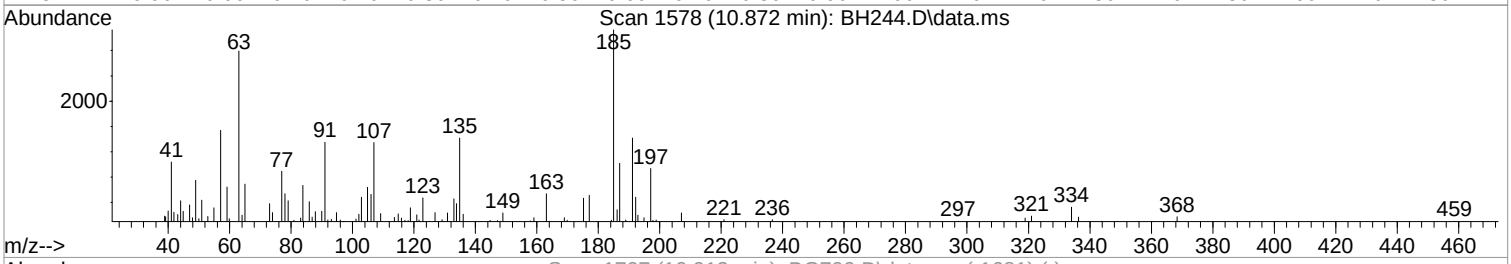
1st DM 07/29/16
2nd MW 07/29/16

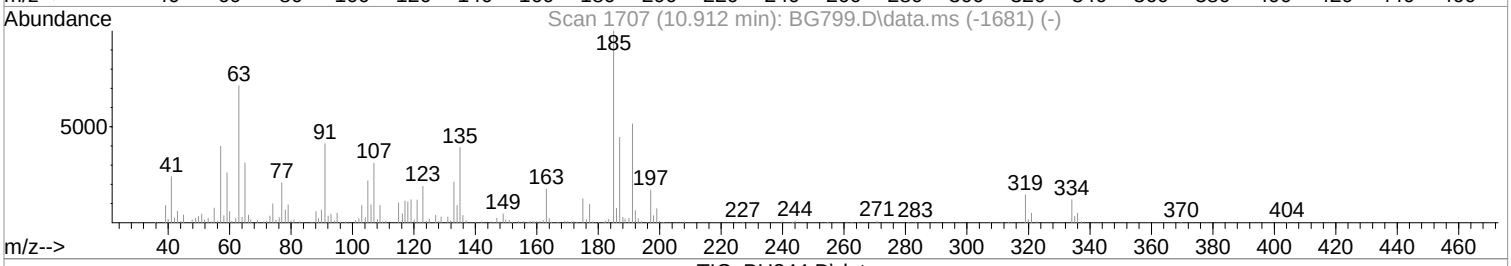
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\5973D\Data\072816\
Data File : BH244.D
Acq On : 28 Jul 2016 3:10 pm
Operator : J.Misiurewicz
Sample : 5.0 ppm STD Inst : 5973D
Misc : Initial Calibration 8270D/625
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jul 29 07:41:10 2016
Quant Method : I:\ACQUDATA\5973D\Methods\8270072816.M
Quant Title : 8270 BNA ANALYSIS
QLast Update : Fri Jul 29 07:31:03 2016
Response via : Initial Calibration







TIC: BH244.D\data.ms

(125) Aramite (TM)

10.872min (-0.004) 9.36 ppm m

response 5612

Ion	Exp%	Act%
185.00	100	100
191.10	48.70	45.30
319.00	15.90	4.89
0.00	0.00	0.00

Manual Integration:

After

Split Peak

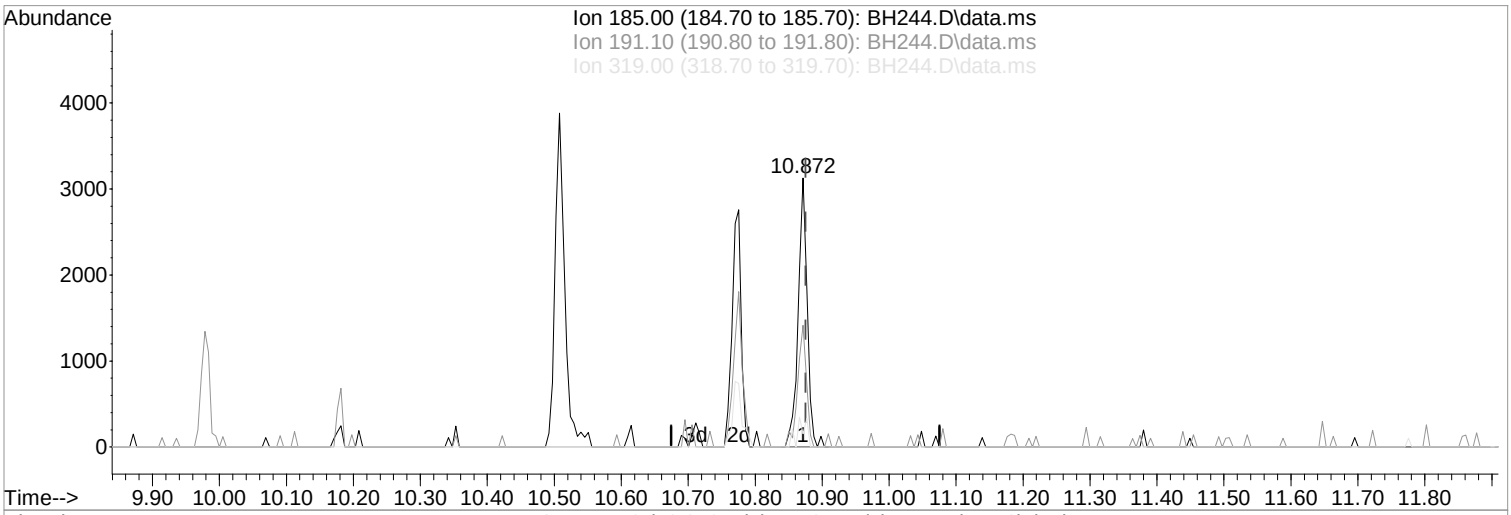
07/29/16

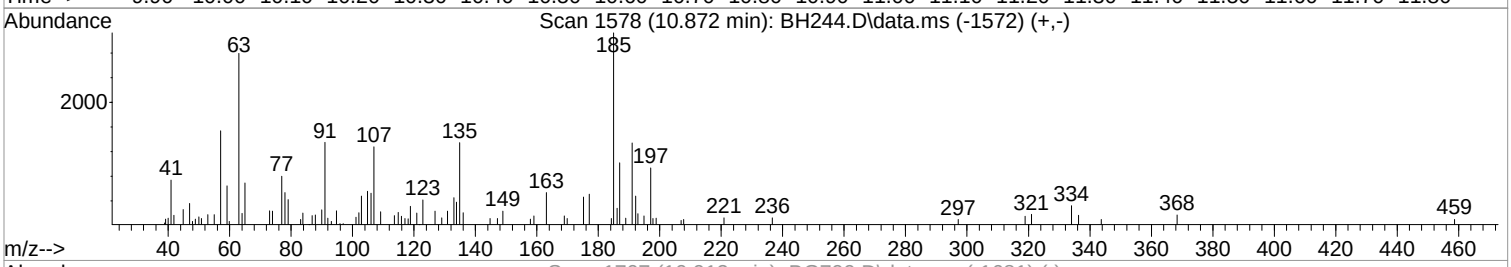
1st DM 07/29/16
2nd MW 07/29/16

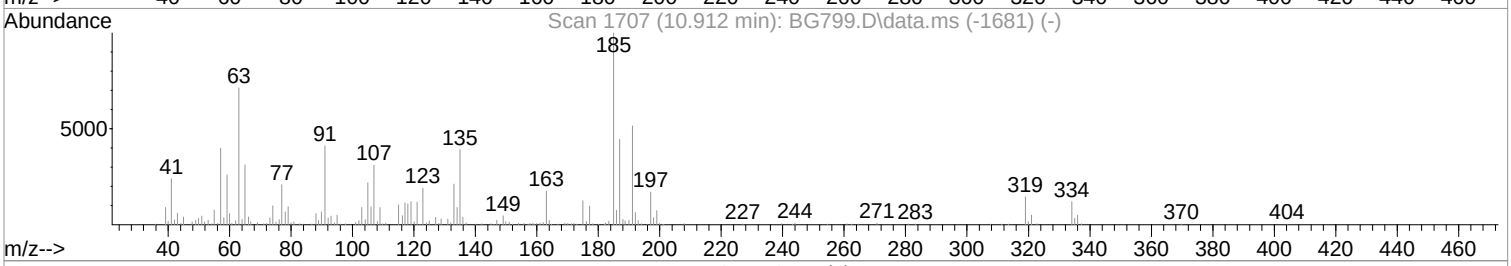
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\5973D\Data\072816\
Data File : BH244.D
Acq On : 28 Jul 2016 3:10 pm
Operator : J.Misiurewicz
Sample : 5.0 ppm STD Inst : 5973D
Misc : Initial Calibration 8270D/625
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jul 29 07:41:10 2016
Quant Method : I:\ACQUDATA\5973D\Methods\8270072816.M
Quant Title : 8270 BNA ANALYSIS
QLast Update : Fri Jul 29 07:31:03 2016
Response via : Initial Calibration







TIC: BH244.D\data.ms

(125) Aramite (TM)

10.872min (-0.004) 4.87 ppm

response 2919

Ion	Exp%	Act%
185.00	100	100
191.10	48.70	42.84
319.00	15.90	4.89
0.00	0.00	0.00

Manual Integration:

Before

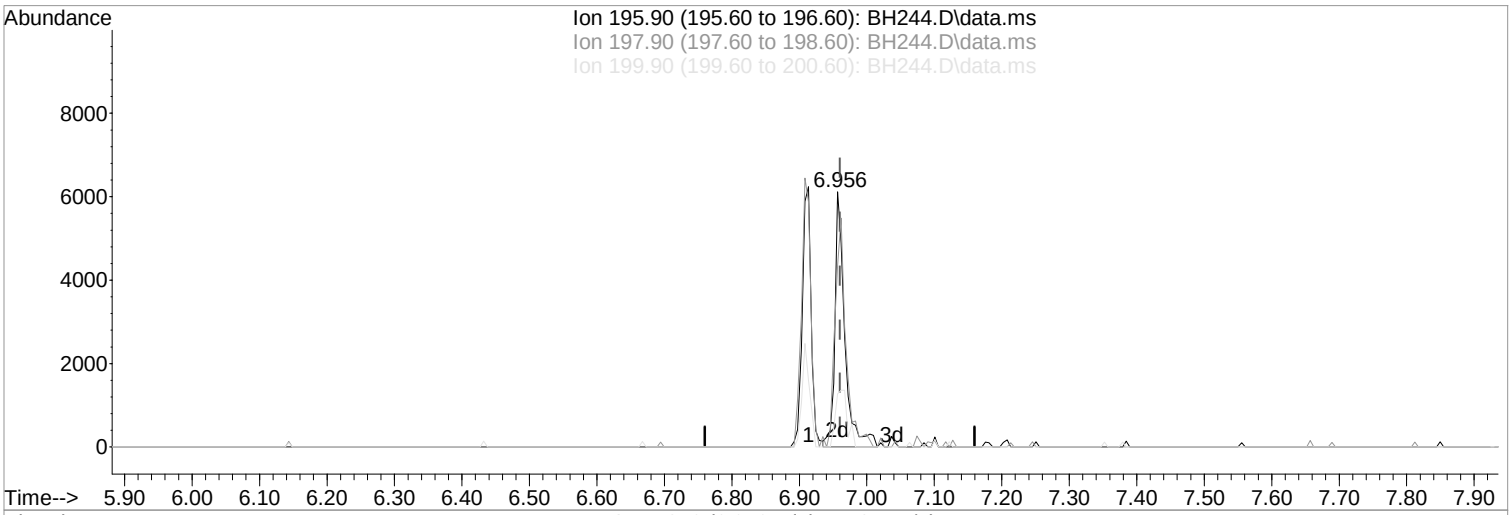
07/29/16

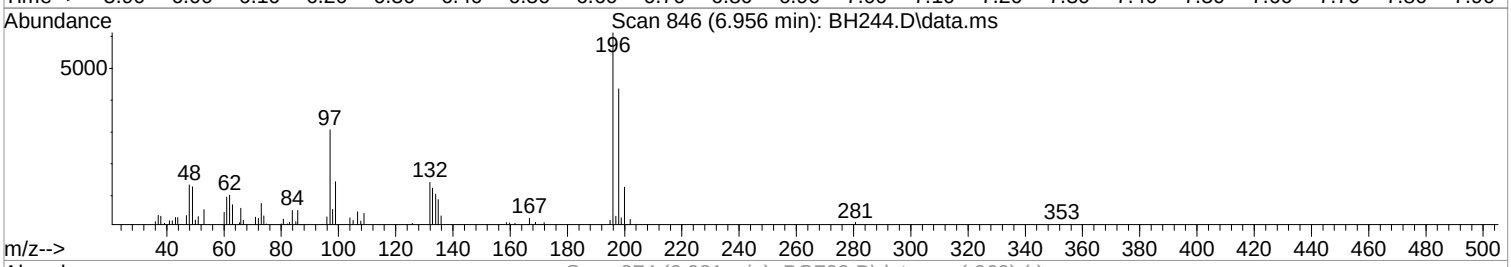
1st DM 07/29/16
2nd MW 07/29/16

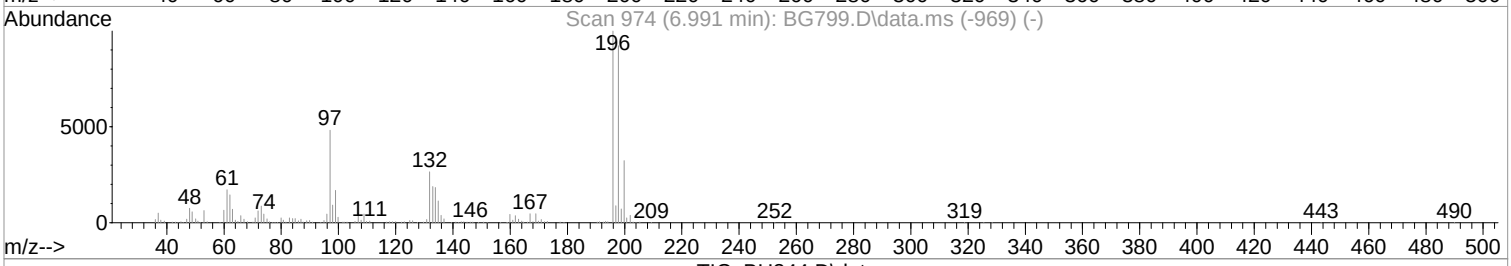
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\5973D\Data\072816\
Data File : BH244.D
Acq On : 28 Jul 2016 3:10 pm
Operator : J.Misiurewicz
Sample : 5.0 ppm STD Inst : 5973D
Misc : Initial Calibration 8270D/625
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jul 29 07:41:10 2016
Quant Method : I:\ACQUDATA\5973D\Methods\8270072816.M
Quant Title : 8270 BNA ANALYSIS
QLast Update : Fri Jul 29 07:31:03 2016
Response via : Initial Calibration







TIC: BH244.D\data.ms

(62) 2,4,5-Trichlorophenol (TM)

6.956min (-0.004) 4.49 ppm m

response 6244

Ion	Exp%	Act%
195.90	100	100
197.90	94.80	71.15#
199.90	28.80	20.83
0.00	0.00	0.00

Manual Integration:

After

Wrong peak selected.

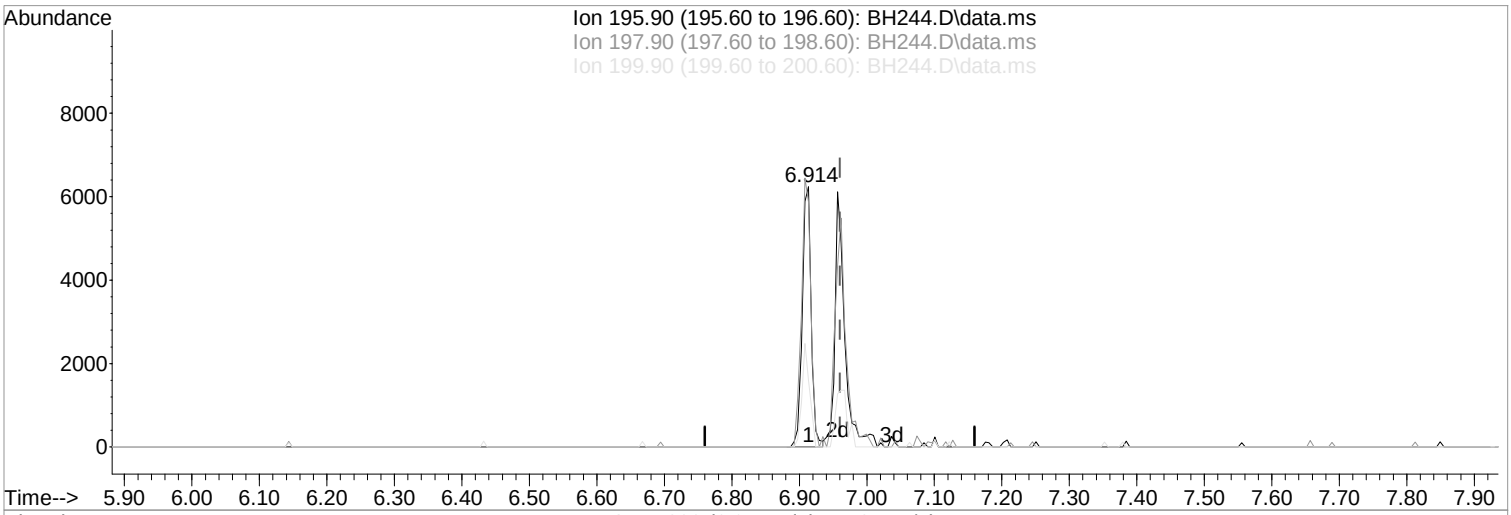
07/29/16

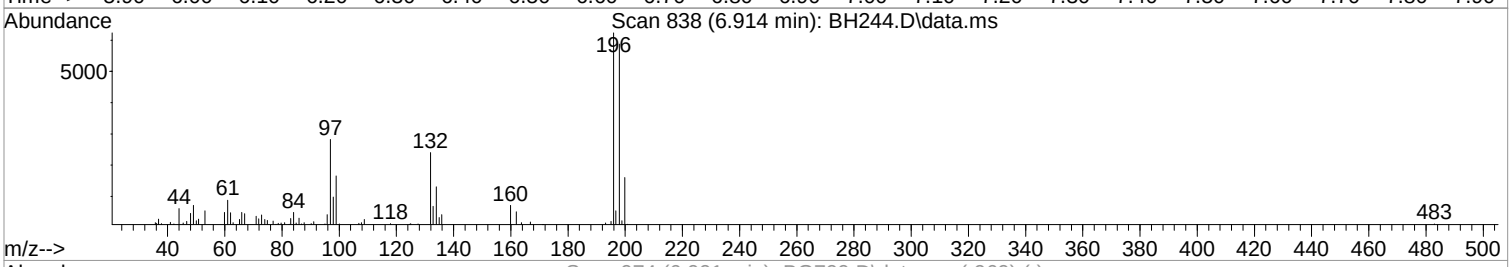
1st DM 07/29/16
2nd MW 07/29/16

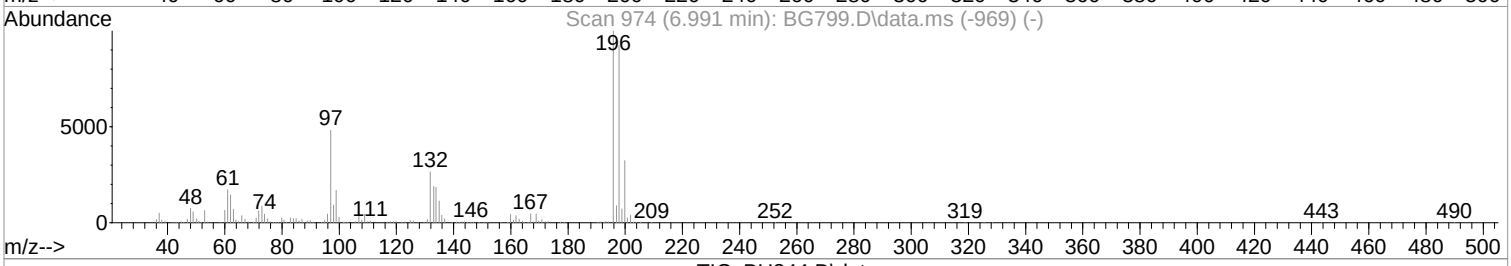
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\5973D\Data\072816\
Data File : BH244.D
Acq On : 28 Jul 2016 3:10 pm
Operator : J.Misiurewicz
Sample : 5.0 ppm STD Inst : 5973D
Misc : Initial Calibration 8270D/625
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jul 29 07:41:10 2016
Quant Method : I:\ACQUDATA\5973D\Methods\8270072816.M
Quant Title : 8270 BNA ANALYSIS
QLast Update : Fri Jul 29 07:31:03 2016
Response via : Initial Calibration







TIC: BH244.D\data.ms

(62) 2,4,5-Trichlorophenol (TM)

6.914min (-0.047) 4.09 ppm

response 5690

Ion	Exp%	Act%
195.90	100	100
197.90	94.80	94.24
199.90	28.80	25.76
0.00	0.00	0.00

Manual Integration:

Before

07/29/16

1st DM 07/29/16
2nd MWC 07/29/16

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\5973D\Data\072816\
Data File : BH244.D
Acq On : 28 Jul 2016 3:10 pm
Operator : J.Misiurewicz
Sample : 5.0 ppm STD Inst : 5973D
Misc : Initial Calibration 8270D/625
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jul 29 07:46:49 2016
Quant Method : I:\ACQUDATA\5973D\Methods\8270072816.M
Quant Title : 8270 BNA ANALYSIS
QLast Update : Fri Jul 29 07:31:03 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) d4-1,4-Dichlorobenzene	4.790	152	69909	40.00	ppm	0.00
33) d8-Naphthalene	5.946	136	299920	40.00	ppm	0.00
57) d10-Acenaphthene	7.652	164	173082	40.00	ppm	0.00
91) d10-Phenanthrene	9.117	188	289218	40.00	ppm	0.00
117) d12-Chrysene	12.380	240	275208	40.00	ppm	0.00
135) d12-Perylene	15.306	264	280290	40.00	ppm	0.00
System Monitoring Compounds						
7) SURR1,2-FLUOROPHENOL	3.720	112	13433	5.11	ppm	0.00
Spiked Amount 200.000	Range 10 - 105		Recovery	=	2.56%#	
12) SURR2,PHENOL-D6	4.459	99	14734	4.83	ppm	0.00
Spiked Amount 200.000	Range 10 - 107		Recovery	=	2.42%#	
34) SURR4,NITROBENZENE-D5	5.277	82	10763	4.54	ppm	0.00
Spiked Amount 100.000	Range 31 - 110		Recovery	=	4.54%#	
63) SURR5,2-FLUOROBIPHENYL	6.989	172	26974	4.87	ppm	0.00
Spiked Amount 100.000	Range 31 - 118		Recovery	=	4.87%#	
88) SURR3,2,4,6-TRIBROMOPH...	8.427	330	3158	4.79	ppm	-0.01
Spiked Amount 200.000	Range 35 - 141		Recovery	=	2.40%#	
124) SURR6,TERPHENYL-D14	10.802	244	26020	4.60	ppm	0.00
Spiked Amount 100.000	Range 30 - 133		Recovery	=	4.60%#	
Target Compounds						Qvalue
2) Pyridine	2.747	79	13160	4.74	ppm	93
3) N-Nitrosodimethylamine	2.699	74	7122	4.46	ppm	97
4) 2-Picoline	3.287	93	13037	4.72	ppm	97
5) N-Nitrosomethylamine	3.357	42	7376	5.14	ppm	71
6) Methyl Methansulfonate	3.587	80	6277	4.89	ppm	93
8) N-Nitrosodiethylamine	3.892	102	5126	4.70	ppm	95
9) Ethyl Mathanesulfonate	4.127	79	10635	5.18	ppm	96
10) Benzaldehyde	4.421	106	8538	5.15	ppm	94
11) Aniline	4.501	93	21587	4.88	ppm	93
13) Phenol	4.469	94	14329	4.65	ppm	89
14) bis(2-Clethyl)Ether	4.544	93	11463	4.80	ppm	95
15) Pentachloroethane	4.550	117	4342	5.02	ppm	89
16) 2-Chlorophenol	4.608	128	11598	4.67	ppm	84
17) 1,3-Diclbenzene	4.737	146	13358	4.91	ppm	99
18) 1,4-Dichlorobenzene	4.801	146	14032	4.98	ppm	98
19) 1,2-Diclbenzene	4.935	146	13614	5.05	ppm	97
20) Benzyl Alcohol	4.897	79	7820	4.26	ppm	93
21) 1-Methyl-2-pyrrolidinone	4.919	99	8446	4.56	ppm	95
22) 2,2'-oxybis(1-Chloropr...	5.010	45	16484	4.89	ppm #	76
23) 2-Methylphenol	4.999	108	10846	4.67	ppm	92
24) 3+4-Methylphenol	5.133	108	11614	4.74	ppm	98
25) Acetophenone	5.138	105	18574	4.68	ppm	95
26) N-Nitroso-Di-n-propyla...	5.127	70	10081	4.81	ppm	86
27) N-Nitrosopyrrolidine	5.116	100	6845	4.62	ppm	64
28) N-Nitrosomorpholine	5.154	56	8721	5.33	ppm	95
29) o-Toluidine	5.170	106	19860	4.79	ppm	88
30) Hexachloroethane	5.239	117	5635	5.01	ppm	97
31) o,o,o-Triethylphosphor...	5.673	198	6101	4.92	ppm	90
32) Alpha-terpinol	5.967	121	4622	4.60	ppm	83
35) Nitrobenzene	5.298	77	11122	4.74	ppm	91
36) N-Nitrosopiperidine	5.432	42	8202	5.03	ppm	94
37) Isophorone	5.507	82	23035	4.95	ppm	98
38) 2-Nitrophenol	5.587	139	4467	4.19	ppm	93

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\5973D\Data\072816\
Data File : BH244.D
Acq On : 28 Jul 2016 3:10 pm
Operator : J.Misiurewicz
Sample : 5.0 ppm STD Inst : 5973D
Misc : Initial Calibration 8270D/625
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jul 29 07:46:49 2016
Quant Method : I:\ACQUDATA\5973D\Methods\8270072816.M
Quant Title : 8270 BNA ANALYSIS
QLast Update : Fri Jul 29 07:31:03 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
40) 2,4-Dimethylphenol	5.619	107	12788	5.35	ppm		92
41) bis(-2-Chloroethoxy)Me...	5.705	93	14911	5.05	ppm		97
42) 2,4-Dichlorophenol	5.822	162	9298	4.89	ppm		94
43) a,a-Dimethylphenethyla...	5.817	58	27504	4.19	ppm		88
44) 1,2,4-Trichlorobenzene	5.892	180	10857	4.89	ppm		100
45) Naphthalene	5.967	128	39320	5.30	ppm		96
46) 4-Chloroaniline	6.020	127	15067	4.76	ppm		98
47) 2,6-Dichlorophenol	6.026	162	9608	4.83	ppm		96
48) Hexachlorobutadiene	6.079	225	6253	5.16	ppm		76
49) Hexachloropropene	6.047	213	7096	4.91	ppm		94
50) 4-Chloro-3-methylphenol	6.491	107	9772	4.84	ppm		91
51) N-N-di-n-butylamine	6.331	84	11878	6.10	ppm		97
52) Caprolactam	6.347	113	4308	5.07	ppm		77
53) p-Phenylenediamine	6.368	80	1743	6.05	ppm		82
54) Safrole	6.545	162	8918	4.99	ppm		94
55) 2-Methylnaphthalene	6.630	142	23293	4.93	ppm		90
56) 1-Methylnaphthalene	6.726	142	22089	4.93	ppm		90
58) Hexachlorocyclopentadiene	6.775	237	2247	5.19	ppm		86
59) 1,2,4,5-Tetrachloroben...	6.796	216	10290	4.78	ppm		97
60) 1,2,3,4-Tetrachloroben...	7.069	216	11083	4.85	ppm		99
61) 2,4,6-Trichlorophenol	6.914	196	5690	4.12	ppm		97
62) 2,4,5-Trichlorophenol	6.956	196	6244m	4.49	ppm		
64) Isosafrole	7.047	104	5093	5.03	ppm		88
65) 1,1'-Biphenyl	7.085	154	32494	5.04	ppm		95
66) 2-Chloronaphthalene	7.106	162	24442	5.00	ppm		93
67) 2-Nitroaniline	7.208	65	5075	3.98	ppm		96
68) 1,4-Naphthoquinone	7.283	158	4137	4.25	ppm		86
69) m-Dinitrobenzene	7.416	168	1693	4.84	ppm	#	75
70) Acenaphthylene	7.513	152	36493	4.87	ppm		99
71) Dimethyl phthalate	7.379	163	24783	4.91	ppm		99
72) 2,6-Dinitrotoluene	7.443	165	3146	3.16	ppm		94
73) Acenaphthene	7.684	153	23601	4.77	ppm		98
74) 3-Nitroaniline	7.614	138	4784	3.63	ppm		90
75) 2,4-Dinitrophenol	7.727	184	406	5.01	ppm		99
76) Dibenzofuran	7.850	168	32425	4.88	ppm		94
77) 2,4-Dinitrotoluene	7.844	165	3680	5.18	ppm		90
78) 4-Nitrophenol	7.812	65	1770	2.28	ppm		89
79) Pentachlorobenzene	7.812	250	9331	4.99	ppm		95
80) 1-Napthylamine	7.930	143	25416	5.16	ppm		99
81) 2-Napthylamine	8.010	143	26269	5.04	ppm		94
82) 2,3,4,6-Tetrachlorophenol	7.978	232	3672	3.77	ppm		90
83) Fluorene	8.192	166	27237	4.98	ppm		91
84) 4-Chlorophenyl-phenyle...	8.187	204	12000	4.82	ppm		94
85) Diethylphthalate	8.069	149	28417	5.39	ppm		95
86) 4-Nitroaniline	8.213	138	4247	2.98	ppm	#	76
87) 5-Nitro-o-toluidine	8.203	152	5610	3.84	ppm		92
89) Sulfotepp	8.454	322	2841	4.14	ppm		88
90) Octachlorocyclopentene	8.438	307	2738	3.83	ppm		96
92) Thionazin	8.149	107	5774	5.59	ppm		73
93) 4,6-Dinitro-2-methylph...	8.240	198	1174	5.08	ppm	#	59
94) Diphenylamine	8.304	169	50050	10.53	ppm		97
95) 1,2 Diphenylhydrazine	8.342	77	30522	4.98	ppm		98
96) N-Nitrosodiphenylamine	8.304	169	50050	10.53	ppm		97
97) 1,3,5-Trinirobenzene	8.582	213	878	5.39	ppm	#	1
98) Diallate	8.582	86	11892	5.09	ppm		77
99) Phorate	8.593	121	5196	4.53	ppm		93

1st DM 07/29/16
2nd MWC 07/29/16

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\5973D\Data\072816\
Data File : BH244.D
Acq On : 28 Jul 2016 3:10 pm
Operator : J.Misiurewicz
Sample : 5.0 ppm STD Inst : 5973D
Misc : Initial Calibration 8270D/625
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jul 29 07:46:49 2016
Quant Method : I:\ACQUDATA\5973D\Methods\8270072816.M
Quant Title : 8270 BNA ANALYSIS
QLast Update : Fri Jul 29 07:31:03 2016
Response via : Initial Calibration

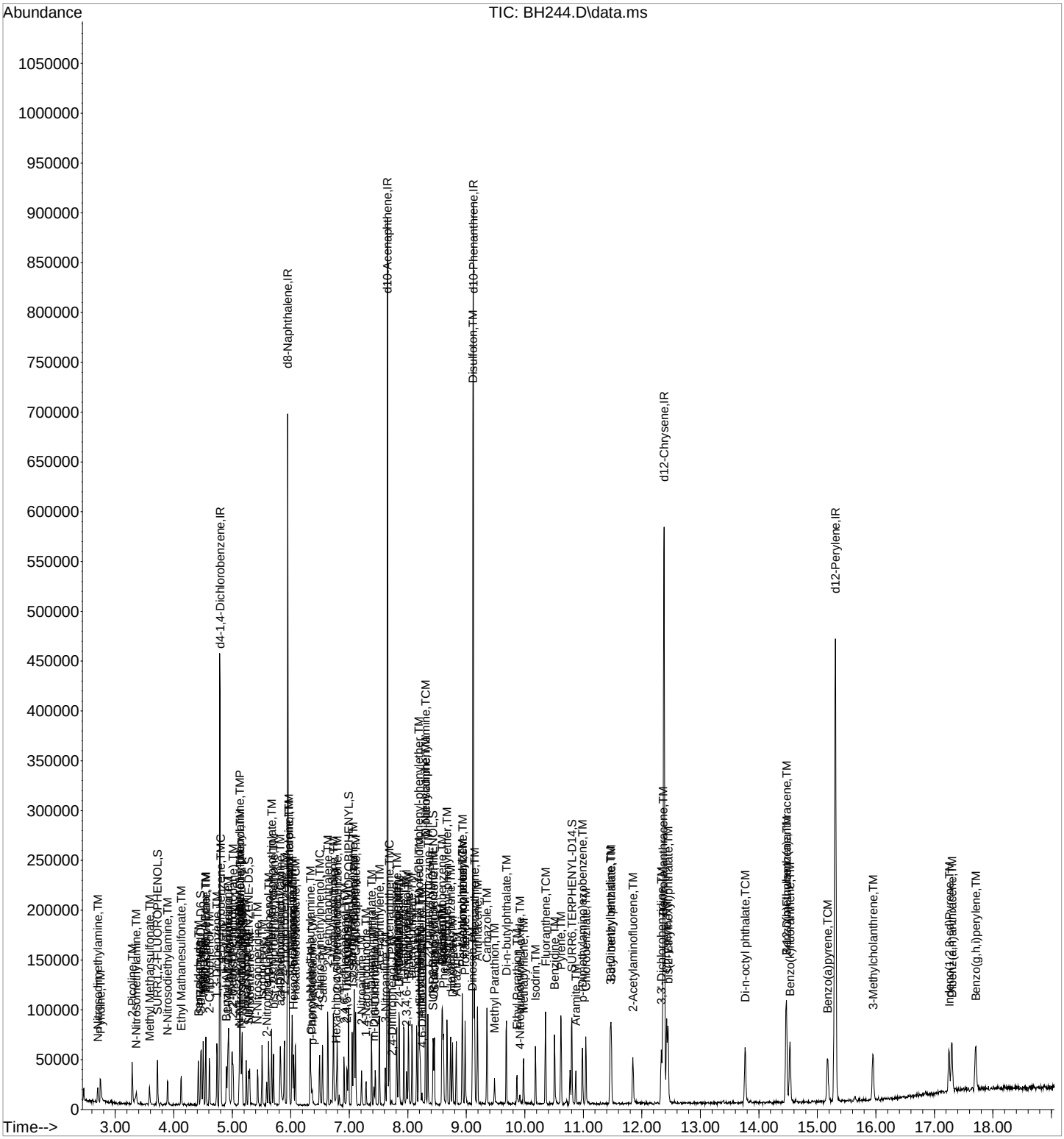
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
100) Phenacetin	8.609	108	15838	5.16 ppm	91
101) 4-Bromophenyl-phenylether	8.668	248	7709	5.36 ppm	89
102) Hexachlorobenzene	8.732	284	8743	5.36 ppm	87
103) Dimethoate	8.764	87	11170	5.53 ppm	99
104) Atrazine	8.828	215	3415	5.10 ppm	92
105) Pentachlorophenol	8.935	266	1618	2.37 ppm	89
106) 4-Aminobiphenyl	8.930	169	25178	4.44 ppm	97
107) Pentachloronitrobenzene	8.935	237	1893	3.35 ppm	90
108) Pronamide	8.978	173	11685	4.46 ppm	91
109) Dinoseb	9.101	211	1215	1.57 ppm	91
110) Disulfoton	9.112	88	15841	5.29 ppm	81
111) Phenanthrene	9.139	178	38620	5.05 ppm	97
112) Anthracene	9.192	178	37712	4.92 ppm	97
113) Carbazole	9.353	167	38001	4.67 ppm	99
114) Di-n-butylphthalate	9.684	149	40876	4.45 ppm	96
115) 4-Nitroquinonline-1-oxide	9.914	190	612	1.62 ppm	86
116) Fluoranthene	10.353	202	36612	4.49 ppm	98
118) Methyl Parathion	9.481	109	3866	2.95 ppm	81
119) Ethyl Parathion	9.866	97	2568	6.22 ppm	67
120) Methapyrilene	9.978	58	13644	6.21 ppm	89
121) Isodrin	10.182	193	3551	4.48 ppm	85
122) Benzidine	10.508	184	27758	4.91 ppm	99
123) Pyrene	10.615	202	40475	4.66 ppm	98
125) Aramite	10.872	185	5612m	9.36 ppm	
126) p-(Dimethylamino)azobe...	10.984	120	12637	4.84 ppm	87
127) Chlorobenzilate	11.043	139	13605	4.60 ppm	88
128) Butyl benzyl phthalate	11.476	149	21939	5.00 ppm	93
129) 3,3-Dimethylbenzidine	11.460	212	27374	4.86 ppm	95
130) 2-Acetylaminofluorene	11.845	181	15431	4.13 ppm	95
131) 3,3'-Dichlorobenzidine	12.332	252	14181	4.61 ppm	93
132) Benzo(a)anthracene	12.359	228	36904	4.71 ppm	96
133) Chrysene	12.423	228	37750	5.04 ppm	95
134) bis(2-Ethylhexyl)phtha...	12.449	149	29548	4.72 ppm	98
136) Di-n-octyl phthalate	13.765	149	47794	4.34 ppm	96
137) 7,12-Dimethylbenz(a)an...	14.471	256	17427	4.31 ppm	89
138) Benzo(b)Fluoranthene	14.471	252	35037	4.34 ppm	95
139) Benzo(k)fluoranthene	14.530	252	34316	4.56 ppm	94
140) Benzo(a)pyrene	15.172	252	31236	4.50 ppm	94
141) 3-Methylcholanthrene	15.953	268	16757	4.10 ppm	98
142) Indeno(1,2,3-cd)Pyrene	17.253	276	24840	4.53 ppm	84
143) Dibenz(a,h)anthracene	17.301	278	28322	4.52 ppm	99
144) Benzo(g,h,i)perylene	17.707	276	28071	5.11 ppm	95

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

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\5973D\Data\072816\
Data File : BH244.D
Acq On : 28 Jul 2016 3:10 pm
Operator : J.Misiurewicz
Sample : 5.0 ppm STD Inst : 5973D
Misc : Initial Calibration 8270D/625
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jul 29 07:46:49 2016
Quant Method : I:\ACQUDATA\5973D\Methods\8270072816.M
Quant Title : 8270 BNA ANALYSIS
QLast Update : Fri Jul 29 07:31:03 2016
Response via : Initial Calibration

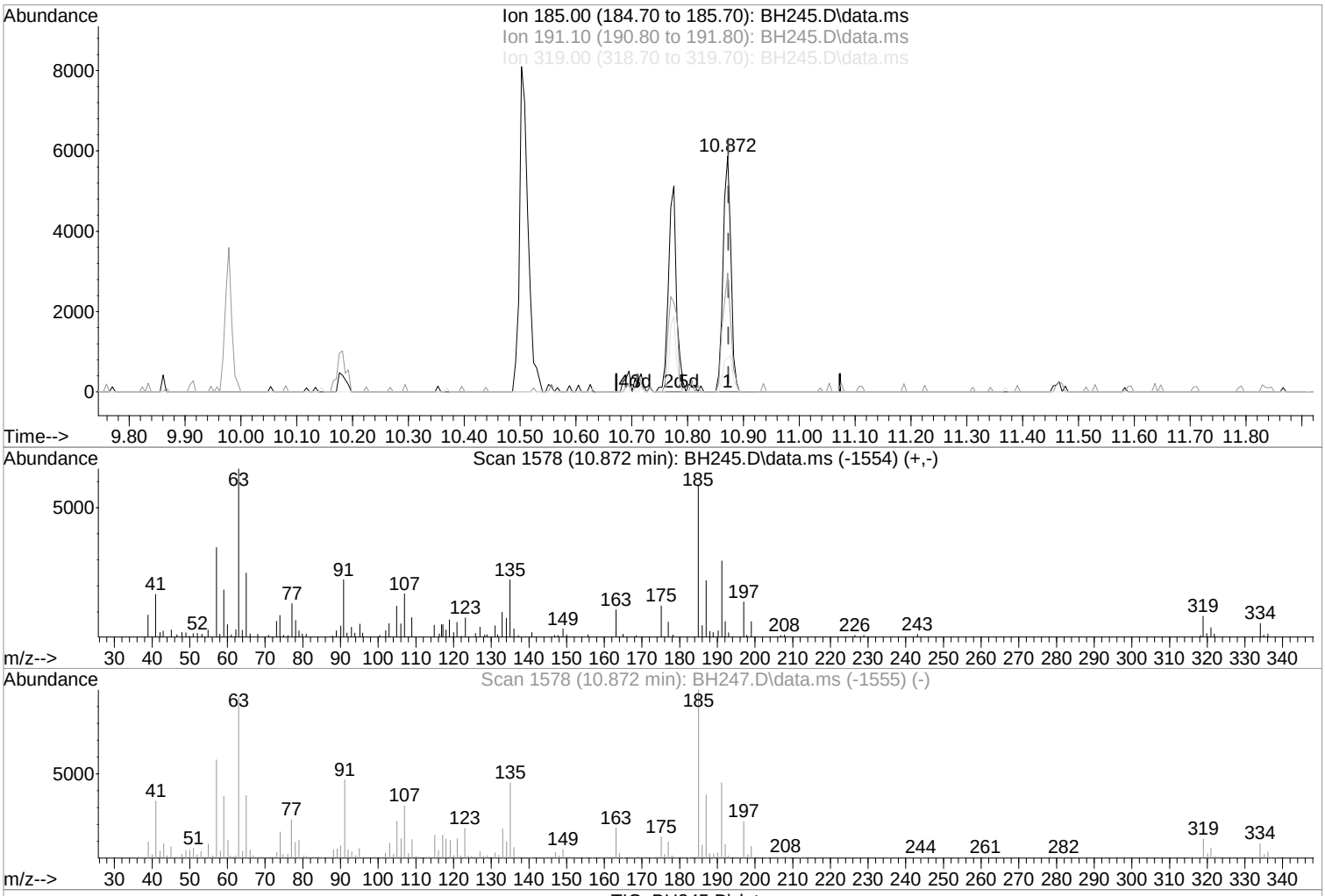


1st DM 07/29/16
2nd MW 07/29/16

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\5973D\Data\072816\
Data File : BH245.D
Acq On : 28 Jul 2016 3:38 pm
Operator : J.Misiurewicz
Sample : 10 ppm STD Inst : 5973D
Misc : Initial Calibration 8270D/625
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jul 29 08:14:49 2016
Quant Method : I:\ACQUDATA\5973D\Methods\8270072816.M
Quant Title : 8270 BNA ANALYSIS
QLast Update : Fri Jul 29 08:02:19 2016
Response via : Initial Calibration



TIC: BH245.D\data.ms

(125) Aramite (TM)

10.872min (-0.001) 9.05 ppm m

response 11079

Ion	Exp%	Act%
185.00	100	100
191.10	44.70	50.34
319.00	11.30	14.45
0.00	0.00	0.00

Manual Integration:

After

Split Peak

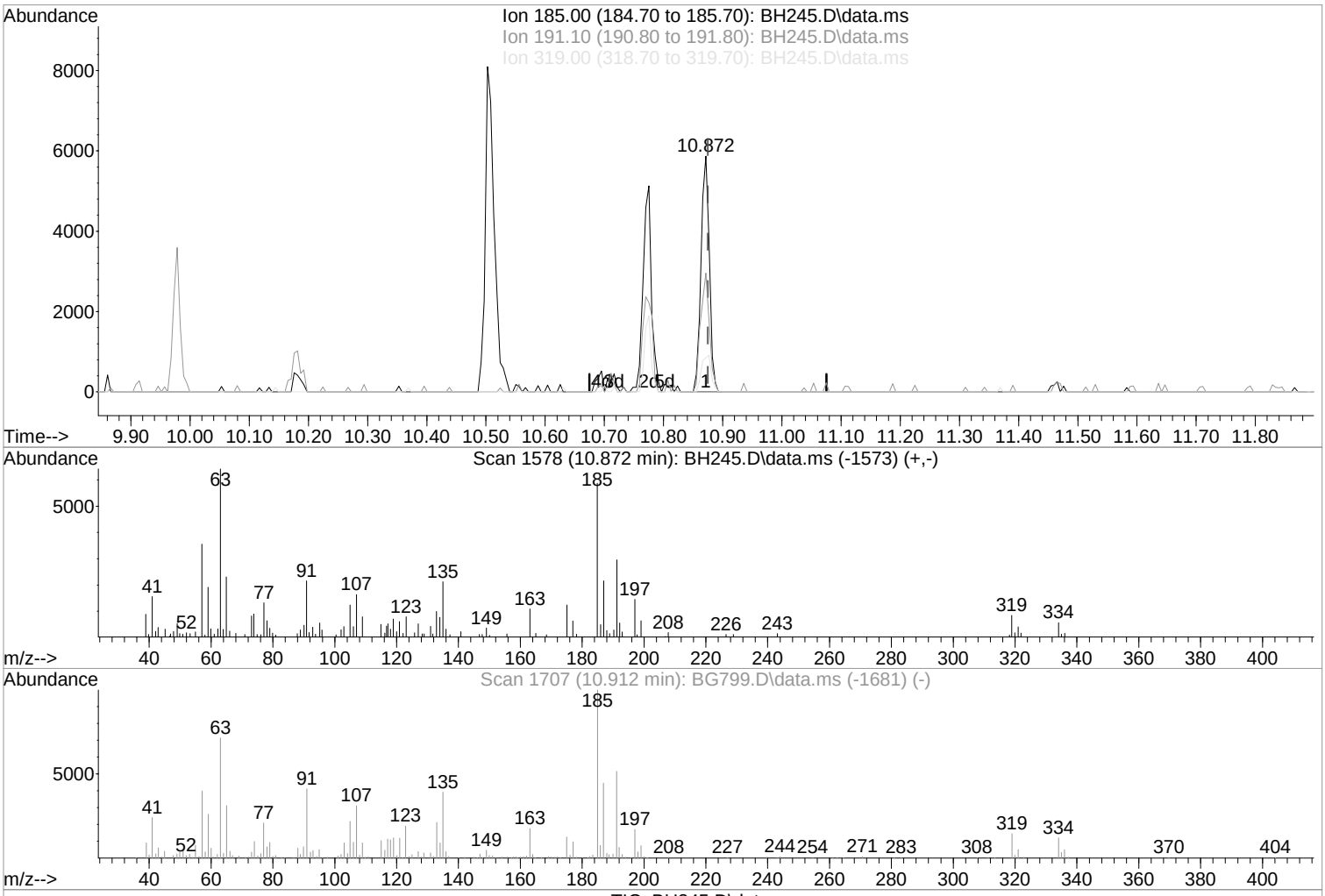
07/29/16

1st DM 07/29/16
2nd MW 07/29/16

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\5973D\Data\072816\
Data File : BH245.D
Acq On : 28 Jul 2016 3:38 pm
Operator : J.Misiurewicz
Sample : 10 ppm STD Inst : 5973D
Misc : Initial Calibration 8270D/625
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jul 29 07:41:16 2016
Quant Method : I:\ACQUDATA\5973D\Methods\8270072816.M
Quant Title : 8270 BNA ANALYSIS
QLast Update : Fri Jul 29 07:31:03 2016
Response via : Initial Calibration



(125) Aramite (TM)

10.872min (-0.004) 8.73 ppm

response 5728

Ion	Exp%	Act%
185.00	100	100
191.10	48.70	50.34
319.00	15.90	14.45
0.00	0.00	0.00

Manual Integration:

Before

07/29/16

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\5973D\Data\072816\
Data File : BH245.D
Acq On : 28 Jul 2016 3:38 pm
Operator : J.Misiurewicz
Sample : 10 ppm STD Inst : 5973D
Misc : Initial Calibration 8270D/625
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jul 29 08:15:23 2016
Quant Method : I:\ACQUDATA\5973D\Methods\8270072816.M
Quant Title : 8270 BNA ANALYSIS
QLast Update : Fri Jul 29 08:02:19 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) d4-1,4-Dichlorobenzene	4.790	152	71017	40.00	ppm	0.00
33) d8-Naphthalene	5.945	136	315227	40.00	ppm	0.00
57) d10-Acenaphthene	7.652	164	179977	40.00	ppm	0.00
91) d10-Phenanthrene	9.117	188	280175	40.00	ppm	0.00
117) d12-Chrysene	12.380	240	301202	40.00	ppm	0.00
135) d12-Perylene	15.306	264	276699	40.00	ppm	0.00
System Monitoring Compounds						
7) SURR1,2-FLUOROPHENOL	3.720	112	26421	9.90	ppm	0.00
Spiked Amount 200.000	Range 10 - 105		Recovery	=	4.95%#	
12) SURR2,PHENOL-D6	4.458	99	30330	9.80	ppm	0.00
Spiked Amount 200.000	Range 10 - 107		Recovery	=	4.90%#	
34) SURR4,NITROBENZENE-D5	5.277	82	23726	9.53	ppm	0.00
Spiked Amount 100.000	Range 31 - 110		Recovery	=	9.53%#	
63) SURR5,2-FLUOROBIPHENYL	6.988	172	58790	10.20	ppm	0.00
Spiked Amount 100.000	Range 31 - 118		Recovery	=	10.20%#	
88) SURR3,2,4,6-TRIBROMOPH...	8.433	330	6413	9.35	ppm	0.00
Spiked Amount 200.000	Range 35 - 141		Recovery	=	4.67%#	
124) SURR6,TERPHENYL-D14	10.802	244	62342	10.07	ppm	0.00
Spiked Amount 100.000	Range 30 - 133		Recovery	=	10.07%#	
Target Compounds						Qvalue
2) Pyridine	2.736	79	28021	9.94	ppm	95
3) N-Nitrosodimethylamine	2.699	74	17386	10.71	ppm	86
4) 2-Picoline	3.287	93	30075	10.71	ppm	97
5) N-Nitrosomethylamine	3.357	42	15394	11.03	ppm	83
6) Methyl Methansulfonate	3.581	80	13890	10.65	ppm	92
8) N-Nitrosodiethylamine	3.892	102	11229	10.13	ppm	91
9) Ethyl Mathanesulfonate	4.127	79	21431	10.27	ppm	99
10) Benzaldehyde	4.416	106	18173	10.78	ppm	95
11) Aniline	4.501	93	44295	9.86	ppm	96
13) Phenol	4.469	94	31864	10.17	ppm	99
14) bis(2-Clethyl)Ether	4.544	93	23940	9.88	ppm	96
15) Pentachloroethane	4.549	117	8768	9.98	ppm	93
16) 2-Chlorophenol	4.608	128	26184	10.37	ppm	93
17) 1,3-Diclbenzene	4.737	146	27614	10.00	ppm	92
18) 1,4-Dichlorobenzene	4.801	146	27720	9.68	ppm	97
19) 1,2-Diclbenzene	4.935	146	27738	10.13	ppm	96
20) Benzyl Alcohol	4.897	79	18666	10.01	ppm	92
21) 1-Methyl-2-pyrrolidinone	4.918	99	19405	10.30	ppm	95
22) 2,2'-oxybis(1-Chloropr...	5.015	45	36138	10.55	ppm #	78
23) 2-Methylphenol	4.993	108	23128	9.79	ppm	83
24) 3+4-Methylphenol	5.132	108	24903	10.01	ppm	86
25) Acetophenone	5.138	105	41696	10.33	ppm	94
26) N-Nitroso-Di-n-propyla...	5.127	70	22092	10.37	ppm	90
27) N-Nitrosopyrrolidine	5.116	100	15244	10.13	ppm	72
28) N-Nitrosomorpholine	5.148	56	16488	9.91	ppm	90
29) o-Toluidine	5.170	106	43542	10.34	ppm	94
30) Hexachloroethane	5.239	117	12251	10.72	ppm	92
31) o,o,o-Triethylphosphor...	5.673	198	12483	9.91	ppm	87
32) Alpha-terpinol	5.967	121	10277	10.06	ppm	81
35) Nitrobenzene	5.298	77	25094	10.17	ppm	94
36) N-Nitrosopiperidine	5.432	42	17980	10.49	ppm	87
37) Isophorone	5.507	82	51188	10.47	ppm	98
38) 2-Nitrophenol	5.587	139	9773	8.44	ppm	89

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\5973D\Data\072816\
Data File : BH245.D
Acq On : 28 Jul 2016 3:38 pm
Operator : J.Misiurewicz
Sample : 10 ppm STD Inst : 5973D
Misc : Initial Calibration 8270D/625
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jul 29 08:15:23 2016
Quant Method : I:\ACQUDATA\5973D\Methods\8270072816.M
Quant Title : 8270 BNA ANALYSIS
QLast Update : Fri Jul 29 08:02:19 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
40) 2,4-Dimethylphenol	5.619	107	24579	9.79	ppm		96
41) bis(-2-Chloroethoxy)Me...	5.705	93	32331	10.41	ppm		93
42) 2,4-Dichlorophenol	5.817	162	19319	9.67	ppm		93
43) a,a-Dimethylphenethyla...	5.833	58	66525	9.64	ppm		97
44) 1,2,4-Trichlorobenzene	5.892	180	23214	9.94	ppm		100
45) Naphthalene	5.967	128	80129	10.27	ppm		98
46) 4-Chloroaniline	6.020	127	34969	10.51	ppm		99
47) 2,6-Dichlorophenol	6.026	162	21122	10.11	ppm		88
48) Hexachlorobutadiene	6.079	225	13220	10.38	ppm		88
49) Hexachloropropene	6.047	213	14817	9.76	ppm		99
50) 4-Chloro-3-methylphenol	6.491	107	20817	9.82	ppm		97
51) N-N-di-n-butylamine	6.331	84	24850	12.14	ppm		97
52) Caprolactam	6.341	113	9415	10.54	ppm		90
53) p-Phenylenediamine	6.363	80	3592	12.76	ppm		96
54) Safrole	6.544	162	19505	10.39	ppm		95
55) 2-Methylnaphthalene	6.630	142	50233	10.11	ppm		96
56) 1-Methylnaphthalene	6.726	142	47502	10.09	ppm		95
58) Hexachlorocyclopentadiene	6.780	237	5695	9.17	ppm		100
59) 1,2,4,5-Tetrachloroben...	6.796	216	22103	9.87	ppm		98
60) 1,2,3,4-Tetrachloroben...	7.069	216	24220	10.18	ppm		95
61) 2,4,6-Trichlorophenol	6.908	196	13998	9.95	ppm		97
62) 2,4,5-Trichlorophenol	6.956	196	13060	8.94	ppm		94
64) Isosafrole	7.047	104	10423	9.91	ppm		96
65) 1,1'-Biphenyl	7.085	154	68375	10.21	ppm		97
66) 2-Chloronaphthalene	7.106	162	52002	10.22	ppm		99
67) 2-Nitroaniline	7.208	65	10916	8.44	ppm		85
68) 1,4-Naphthoquinone	7.283	158	11768	11.83	ppm		92
69) m-Dinitrobenzene	7.422	168	5074	10.73	ppm		80
70) Acenaphthylene	7.513	152	80604	10.35	ppm		97
71) Dimethyl phthalate	7.379	163	54708	10.42	ppm		99
72) 2,6-Dinitrotoluene	7.443	165	9362	9.04	ppm		93
73) Acenaphthene	7.684	153	51981	10.11	ppm		97
74) 3-Nitroaniline	7.614	138	12082	8.81	ppm		97
75) 2,4-Dinitrophenol	7.727	184	1570	10.01	ppm		69
76) Dibenzofuran	7.855	168	70358	10.17	ppm		98
77) 2,4-Dinitrotoluene	7.839	165	8376	9.23	ppm		95
78) 4-Nitrophenol	7.812	65	5479	6.79	ppm		89
79) Pentachlorobenzene	7.812	250	19066	9.80	ppm		96
80) 1-Napthylamine	7.930	143	56549	11.05	ppm		99
81) 2-Napthylamine	8.010	143	57440	10.59	ppm		95
82) 2,3,4,6-Tetrachlorophenol	7.978	232	9193	9.07	ppm		94
83) Fluorene	8.192	166	58362	10.27	ppm		98
84) 4-Chlorophenyl-phenyle...	8.187	204	28076	10.86	ppm		94
85) Diethylphthalate	8.069	149	55150	10.05	ppm		98
86) 4-Nitroaniline	8.213	138	13631	9.21	ppm		96
87) 5-Nitro-o-toluidine	8.203	152	11199	7.38	ppm		97
89) Sulfotepp	8.454	322	6235	8.74	ppm		96
90) Octachlorocyclopentene	8.438	307	6265	8.43	ppm		89
92) Thionazin	8.154	107	10669	10.66	ppm		94
93) 4,6-Dinitro-2-methylph...	8.245	198	3225	10.03	ppm		83
94) Diphenylamine	8.304	169	101012	21.95	ppm		98
95) 1,2 Diphenylhydrazine	8.342	77	67778	11.42	ppm		98
96) N-Nitrosodiphenylamine	8.304	169	101012	21.95	ppm		98
97) 1,3,5-Trinirobenzene	8.582	213	1352	8.37	ppm	#	1
98) Diallate	8.582	86	25239	11.15	ppm		97
99) Phorate	8.593	121	12104	10.90	ppm	#	68

1st DM 07/29/16
2nd MWC 07/29/16

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\5973D\Data\072816\
Data File : BH245.D
Acq On : 28 Jul 2016 3:38 pm
Operator : J.Misiurewicz
Sample : 10 ppm STD Inst : 5973D
Misc : Initial Calibration 8270D/625
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jul 29 08:15:23 2016
Quant Method : I:\ACQUDATA\5973D\Methods\8270072816.M
Quant Title : 8270 BNA ANALYSIS
QLast Update : Fri Jul 29 08:02:19 2016
Response via : Initial Calibration

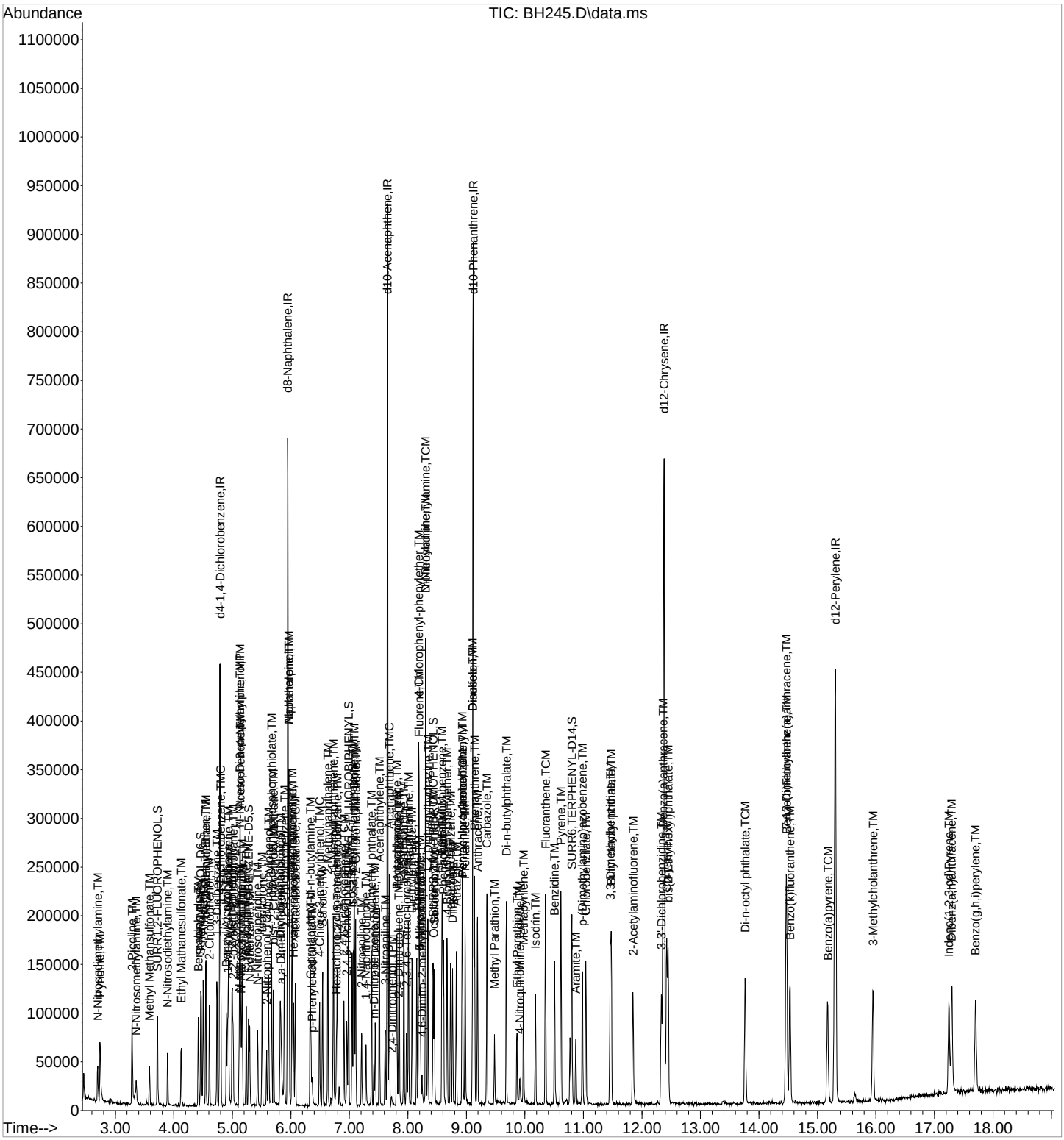
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
100) Phenacetin	8.609	108	32434	10.91 ppm	97
101) 4-Bromophenyl-phenylether	8.673	248	15511	11.14 ppm	91
102) Hexachlorobenzene	8.732	284	17784	11.25 ppm	98
103) Dimethoate	8.764	87	24470	12.50 ppm	93
104) Atrazine	8.828	215	7019	10.82 ppm	91
105) Pentachlorophenol	8.935	266	4173	6.32 ppm	88
106) 4-Aminobiphenyl	8.930	169	55624	10.12 ppm	99
107) Pentachloronitrobenzene	8.935	237	4803	8.77 ppm	93
108) Pronamide	8.978	173	27746	10.93 ppm	97
109) Dinoseb	9.106	211	4139	5.54 ppm	83
110) Disulfoton	9.106	88	27795	9.59 ppm	97
111) Phenanthrene	9.139	178	75155	10.14 ppm	99
112) Anthracene	9.192	178	72975	9.82 ppm	99
113) Carbazole	9.353	167	83936	10.65 ppm	99
114) Di-n-butylphthalate	9.684	149	95218	10.71 ppm	98
115) 4-Nitroquinonline-1-oxide	9.909	190	1421	3.88 ppm	70
116) Fluoranthene	10.353	202	86111	10.90 ppm	98
118) Methyl Parathion	9.481	109	10048	7.02 ppm	90
119) Ethyl Parathion	9.866	97	7023	9.33 ppm	99
120) Methapyrilene	9.978	58	29888	12.43 ppm	99
121) Isodrin	10.182	193	7295	8.42 ppm	95
122) Benzidine	10.508	184	62378	10.07 ppm	97
123) Pyrene	10.615	202	93622	9.85 ppm	99
125) Aramite	10.872	185	11079m	9.05 ppm	
126) p-(Dimethylamino)azobe...	10.984	120	26492	9.27 ppm	94
127) Chlorobenzilate	11.043	139	30524	9.44 ppm	100
128) Butyl benzyl phthalate	11.476	149	46433	9.67 ppm	98
129) 3,3-Dimethylbenzidine	11.460	212	59917	9.72 ppm	96
130) 2-Acetylaminofluorene	11.850	181	37355	9.14 ppm	94
131) 3,3'-Dichlorobenzidine	12.332	252	31494	9.35 ppm	97
132) Benzo(a)anthracene	12.358	228	84733	9.89 ppm	97
133) Chrysene	12.423	228	82276	10.04 ppm	99
134) bis(2-Ethylhexyl)phtha...	12.449	149	65464	9.56 ppm	99
136) Di-n-octyl phthalate	13.765	149	102103	9.40 ppm	99
137) 7,12-Dimethylbenz(a)an...	14.466	256	39424	9.87 ppm	93
138) Benzo(b)Fluoranthene	14.471	252	79632	9.98 ppm	96
139) Benzo(k)fluoranthene	14.530	252	76560	10.31 ppm	94
140) Benzo(a)pyrene	15.177	252	66886	9.76 ppm	91
141) 3-Methylcholanthrene	15.953	268	39389	9.77 ppm	93
142) Indeno(1,2,3-cd)Pyrene	17.247	276	54181	10.01 ppm	87
143) Dibenz(a,h)anthracene	17.295	278	60478	9.78 ppm	96
144) Benzo(g,h,i)perylene	17.702	276	61260	11.29 ppm	92

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

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\5973D\Data\072816\
Data File : BH245.D
Acq On : 28 Jul 2016 3:38 pm
Operator : J.Misiurewicz
Sample : 10 ppm STD Inst : 5973D
Misc : Initial Calibration 8270D/625
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jul 29 08:15:23 2016
Quant Method : I:\ACQUDATA\5973D\Methods\8270072816.M
Quant Title : 8270 BNA ANALYSIS
QLast Update : Fri Jul 29 08:02:19 2016
Response via : Initial Calibration

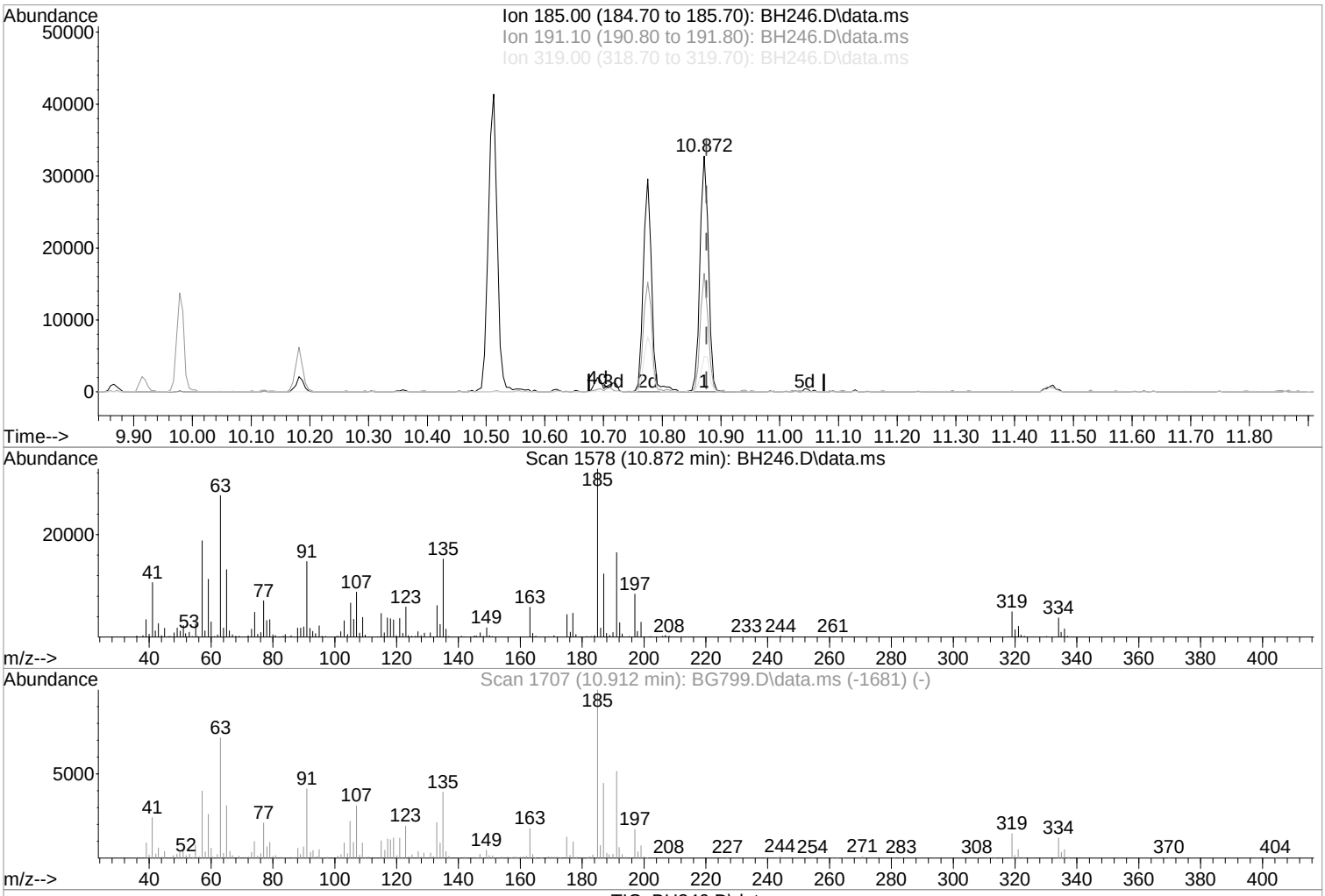


1st DM 07/29/16
2nd MW 07/29/16

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\5973D\Data\072816\
Data File : BH246.D
Acq On : 28 Jul 2016 4:05 pm
Operator : J.Misiurewicz
Sample : 50 ppm STD Inst : 5973D
Misc : Initial Calibration 8270D/625
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jul 29 07:41:21 2016
Quant Method : I:\ACQUDATA\5973D\Methods\8270072816.M
Quant Title : 8270 BNA ANALYSIS
QLast Update : Fri Jul 29 07:31:03 2016
Response via : Initial Calibration



TIC: BH246.D\data.ms

(125) Aramite (TM)

10.872min (-0.004) 94.25 ppm m

response 62185

Ion	Exp%	Act%
185.00	100	100
191.10	48.70	50.29
319.00	15.90	15.20
0.00	0.00	0.00

Manual Integration:

After

Split Peak

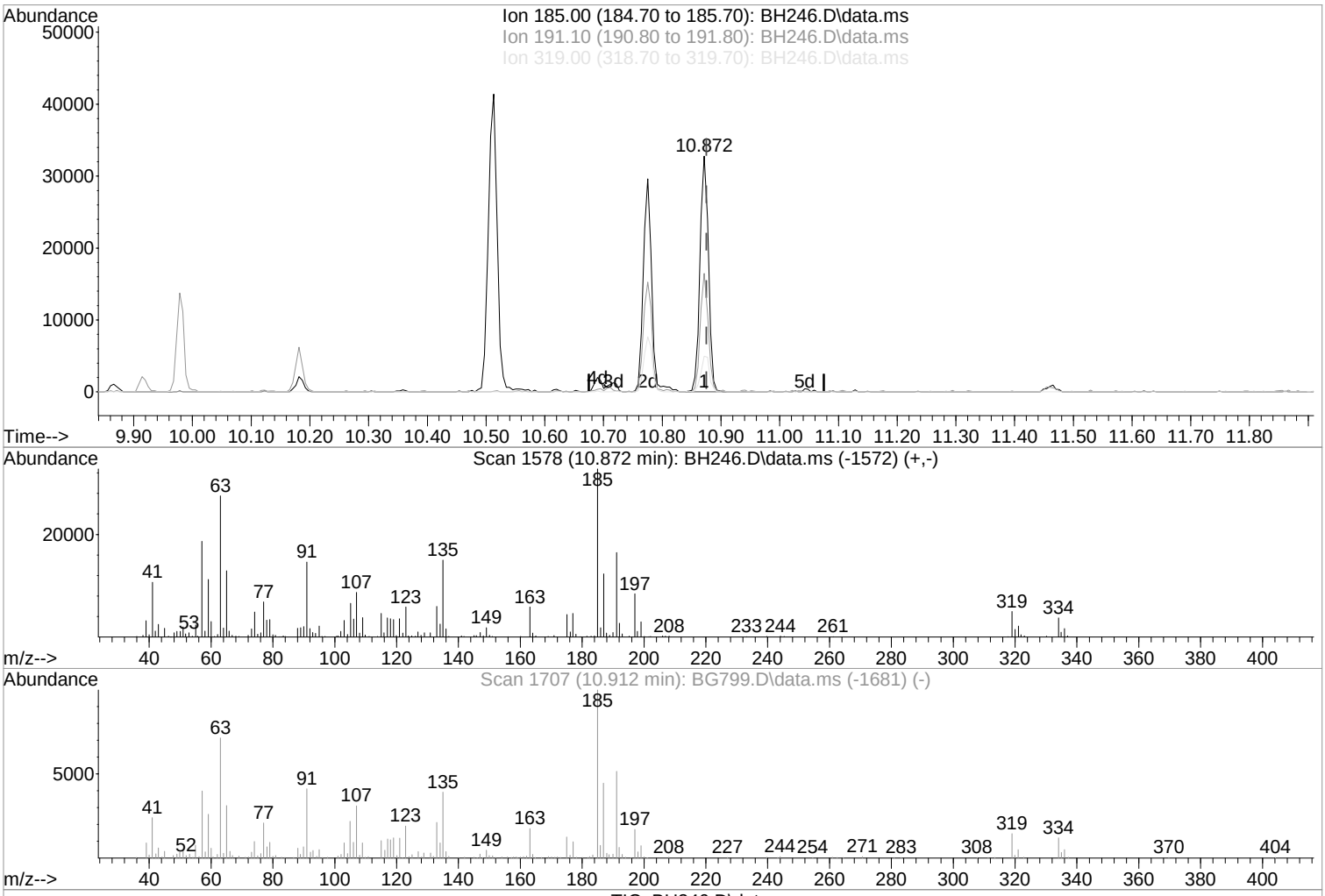
07/29/16

1st DM 07/29/16
2nd MW 07/29/16

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\5973D\Data\072816\
Data File : BH246.D
Acq On : 28 Jul 2016 4:05 pm
Operator : J.Misiurewicz
Sample : 50 ppm STD Inst : 5973D
Misc : Initial Calibration 8270D/625
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jul 29 07:41:21 2016
Quant Method : I:\ACQUDATA\5973D\Methods\8270072816.M
Quant Title : 8270 BNA ANALYSIS
QLast Update : Fri Jul 29 07:31:03 2016
Response via : Initial Calibration



TIC: BH246.D\data.ms

(125) Aramite (TM)

10.872min (-0.004) 49.54 ppm

response 32685

Ion	Exp%	Act%
185.00	100	100
191.10	48.70	50.29
319.00	15.90	15.20
0.00	0.00	0.00

Manual Integration:

Before

07/29/16

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\5973D\Data\072816\
Data File : BH246.D
Acq On : 28 Jul 2016 4:05 pm
Operator : J.Misiurewicz
Sample : 50 ppm STD Inst : 5973D
Misc : Initial Calibration 8270D/625
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jul 29 07:49:52 2016
Quant Method : I:\ACQUDATA\5973D\Methods\8270072816.M
Quant Title : 8270 BNA ANALYSIS
QLast Update : Fri Jul 29 07:31:03 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) d4-1,4-Dichlorobenzene	4.790	152	73675	40.00	ppm	0.00
33) d8-Naphthalene	5.951	136	337183	40.00	ppm	0.00
57) d10-Acenaphthene	7.652	164	189485	40.00	ppm	0.00
91) d10-Phenanthrene	9.117	188	310466	40.00	ppm	0.00
117) d12-Chrysene	12.385	240	302740	40.00	ppm	0.00
135) d12-Perylene	15.311	264	286072	40.00	ppm	0.00
System Monitoring Compounds						
7) SURR1,2-FLUOROPHENOL	3.720	112	137115	49.54	ppm	0.00
Spiked Amount 200.000	Range 10 - 105		Recovery = 24.77%			
12) SURR2,PHENOL-D6	4.458	99	163886	51.02	ppm	0.00
Spiked Amount 200.000	Range 10 - 107		Recovery = 25.51%			
34) SURR4,NITROBENZENE-D5	5.282	82	133663	50.17	ppm	0.00
Spiked Amount 100.000	Range 31 - 110		Recovery = 50.17%			
63) SURR5,2-FLUOROBIPHENYL	6.988	172	297613	49.05	ppm	0.00
Spiked Amount 100.000	Range 31 - 118		Recovery = 49.05%			
88) SURR3,2,4,6-TRIBROMOPH...	8.433	330	35682	49.40	ppm	0.00
Spiked Amount 200.000	Range 35 - 141		Recovery = 24.70%#			
124) SURR6,TERPHENYL-D14	10.802	244	316772	50.92	ppm	0.00
Spiked Amount 100.000	Range 30 - 133		Recovery = 50.92%			
Target Compounds						Qvalue
2) Pyridine	2.731	79	146239	50.01	ppm	99
3) N-Nitrosodimethylamine	2.693	74	87326	51.84	ppm	96
4) 2-Picoline	3.282	93	146905	50.44	ppm	99
5) N-Nitrosomethylamine	3.357	42	72402	47.86	ppm	95
6) Methyl Methansulfonate	3.587	80	68174	50.41	ppm	97
8) N-Nitrosodiethylamine	3.892	102	59082	51.39	ppm	94
9) Ethyl Mathanesulfonate	4.127	79	107566	49.67	ppm	98
10) Benzaldehyde	4.421	106	88306	50.50	ppm	99
11) Aniline	4.501	93	233280	50.04	ppm	93
13) Phenol	4.469	94	160352	49.35	ppm	87
14) bis(2-Clethyl)Ether	4.549	93	127130	50.55	ppm	98
15) Pentachloroethane	4.549	117	45257	49.65	ppm	93
16) 2-Chlorophenol	4.608	128	133629	51.00	ppm	94
17) 1,3-Diclbenzene	4.737	146	145860	50.92	ppm	97
18) 1,4-Dichlorobenzene	4.801	146	148666	50.04	ppm	95
19) 1,2-Diclbenzene	4.935	146	140978	49.64	ppm	97
20) Benzyl Alcohol	4.897	79	98483	50.88	ppm	98
21) 1-Methyl-2-pyrrolidinone	4.935	99	99201	50.78	ppm	93
22) 2,2'-oxybis(1-Chloropr...	5.015	45	177384	49.93	ppm #	82
23) 2-Methylphenol	5.004	108	122839	50.14	ppm	95
24) 3+4-Methylphenol	5.138	108	129282	50.09	ppm	95
25) Acetophenone	5.138	105	210230	50.22	ppm	99
26) N-Nitroso-Di-n-propyla...	5.132	70	109741	49.66	ppm	96
27) N-Nitrosopyrrolidine	5.127	100	80451	51.52	ppm	86
28) N-Nitrosomorpholine	5.159	56	84758	49.12	ppm	96
29) o-Toluidine	5.170	106	218458	50.00	ppm	94
30) Hexachloroethane	5.239	117	58834	49.63	ppm	97
31) o,o,o-Triethylphosphor...	5.678	198	63298	48.43	ppm	93
32) Alpha-terpinol	5.972	121	54044	50.99	ppm	98
35) Nitrobenzene	5.298	77	127327	48.26	ppm	92
36) N-Nitrosopiperidine	5.437	42	89639	48.90	ppm	93
37) Isophorone	5.512	82	255647	48.90	ppm	99
38) 2-Nitrophenol	5.587	139	59625	49.73	ppm	91

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\5973D\Data\072816\
Data File : BH246.D
Acq On : 28 Jul 2016 4:05 pm
Operator : J.Misiurewicz
Sample : 50 ppm STD Inst : 5973D
Misc : Initial Calibration 8270D/625
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jul 29 07:49:52 2016
Quant Method : I:\ACQUDATA\5973D\Methods\8270072816.M
Quant Title : 8270 BNA ANALYSIS
QLast Update : Fri Jul 29 07:31:03 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
39) Benzoic Acid	5.721	105	47103	42.46	ppm		86
40) 2,4-Dimethylphenol	5.625	107	131883	49.11	ppm		95
41) bis(-2-Chloroethoxy)Me...	5.705	93	164686	49.57	ppm		96
42) 2,4-Dichlorophenol	5.817	162	107840	50.48	ppm		98
43) a,a-Dimethylphenethyla...	5.908	58	370930	50.23	ppm		96
44) 1,2,4-Trichlorobenzene	5.892	180	122456	49.03	ppm		93
45) Naphthalene	5.967	128	398416	47.75	ppm		98
46) 4-Chloroaniline	6.020	127	174878	49.16	ppm		99
47) 2,6-Dichlorophenol	6.026	162	107627	48.17	ppm		95
48) Hexachlorobutadiene	6.079	225	63771	46.79	ppm		97
49) Hexachloropropene	6.047	213	79687	49.08	ppm		98
50) 4-Chloro-3-methylphenol	6.491	107	115155	50.78	ppm		94
51) N-N-di-n-butylamine	6.331	84	101080	46.15	ppm		97
52) Caprolactam	6.363	113	45958	48.09	ppm		94
53) p-Phenylenediamine	6.368	80	16427	50.74	ppm		85
54) Safrole	6.544	162	96602	48.09	ppm		97
55) 2-Methylnaphthalene	6.635	142	258722	48.68	ppm		100
56) 1-Methylnaphthalene	6.732	142	247736	49.17	ppm		100
58) Hexachlorocyclopentadiene	6.780	237	47190	49.97	ppm		97
59) 1,2,4,5-Tetrachloroben...	6.796	216	114555	48.56	ppm		97
60) 1,2,3,4-Tetrachloroben...	7.074	216	123596	49.37	ppm		96
61) 2,4,6-Trichlorophenol	6.908	196	75532	49.93	ppm		98
62) 2,4,5-Trichlorophenol	6.956	196	79288	52.09	ppm		99
64) Isosafrole	7.047	104	53666	48.45	ppm		94
65) 1,1'-Biphenyl	7.085	154	349218	49.51	ppm		97
66) 2-Chloronaphthalene	7.111	162	261461	48.83	ppm		99
67) 2-Nitroaniline	7.213	65	69644	49.93	ppm		92
68) 1,4-Naphthoquinone	7.288	158	58043	54.49	ppm		94
69) m-Dinitrobenzene	7.427	168	30527	46.85	ppm		87
70) Acenaphthylene	7.513	152	407728	49.73	ppm		98
71) Dimethyl phthalate	7.384	163	274858	49.72	ppm		99
72) 2,6-Dinitrotoluene	7.448	165	55669	51.06	ppm		94
73) Acenaphthene	7.684	153	267141	49.34	ppm		98
74) 3-Nitroaniline	7.620	138	68370	47.35	ppm		97
75) 2,4-Dinitrophenol	7.727	184	13690	49.34	ppm		91
76) Dibenzofuran	7.855	168	365714	50.23	ppm		99
77) 2,4-Dinitrotoluene	7.844	165	64129	50.06	ppm		91
78) 4-Nitrophenol	7.807	65	46903	55.23	ppm		87
79) Pentachlorobenzene	7.812	250	101531	49.56	ppm		94
80) 1-Napthylamine	7.935	143	256414	47.58	ppm		98
81) 2-Napthylamine	8.015	143	278484	48.76	ppm		98
82) 2,3,4,6-Tetrachlorophenol	7.978	232	50801	47.61	ppm		93
83) Fluorene	8.192	166	299835	50.10	ppm		97
84) 4-Chlorophenyl-phenyle...	8.187	204	140655	51.66	ppm		93
85) Diethylphthalate	8.074	149	275846	47.76	ppm		98
86) 4-Nitroaniline	8.224	138	78495	50.36	ppm		97
87) 5-Nitro-o-toluidine	8.208	152	79997	50.05	ppm		92
89) Sulfotepp	8.459	322	36217	48.23	ppm		95
90) Octachlorocyclopentene	8.438	307	39017	49.85	ppm		98
92) Thionazin	8.154	107	52272	47.13	ppm		99
93) 4,6-Dinitro-2-methylph...	8.245	198	26745	49.16	ppm		97
94) Diphenylamine	8.310	169	478131	93.75	ppm		99
95) 1,2 Diphenylhydrazine	8.347	77	335680	51.02	ppm		97
96) N-Nitrosodiphenylamine	8.310	169	478131	93.75	ppm		99
97) 1,3,5-Trinirobenzene	8.593	213	12449	51.48	ppm	#	75
98) Diallate	8.582	86	117370	46.79	ppm		98

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\5973D\Data\072816\
Data File : BH246.D
Acq On : 28 Jul 2016 4:05 pm
Operator : J.Misiurewicz
Sample : 50 ppm STD Inst : 5973D
Misc : Initial Calibration 8270D/625
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jul 29 07:49:52 2016
Quant Method : I:\ACQUDATA\5973D\Methods\8270072816.M
Quant Title : 8270 BNA ANALYSIS
QLast Update : Fri Jul 29 07:31:03 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
99) Phorate	8.598	121	59960	48.74 ppm	87
100) Phenacetin	8.620	108	173174	52.57 ppm	97
101) 4-Bromophenyl-phenylether	8.673	248	72600	47.04 ppm	97
102) Hexachlorobenzene	8.732	284	85466	48.80 ppm	91
103) Dimethoate	8.775	87	119357	55.03 ppm	96
104) Atrazine	8.834	215	37956	52.81 ppm	83
105) Pentachlorophenol	8.935	266	35694	48.75 ppm	94
106) 4-Aminobiphenyl	8.930	169	316479	51.98 ppm	99
107) Pentachloronitrobenzene	8.941	237	31128	51.32 ppm	92
108) Pronamide	8.983	173	151051	53.68 ppm	99
109) Dinoseb	9.106	211	32389	39.10 ppm	99
110) Disulfoton	9.112	88	147418	45.90 ppm	98
111) Phenanthrene	9.144	178	407874	49.66 ppm	99
112) Anthracene	9.192	178	417549	50.72 ppm	98
113) Carbazole	9.353	167	451469	51.71 ppm	99
114) Di-n-butylphthalate	9.684	149	531659	53.98 ppm	99
115) 4-Nitroquinonline-1-oxide	9.919	190	17977	44.31 ppm	88
116) Fluoranthene	10.353	202	468565	53.53 ppm	97
118) Methyl Parathion	9.481	109	67214	46.69 ppm	95
119) Ethyl Parathion	9.866	97	52555	48.14 ppm	98
120) Methapyrilene	9.978	58	119789	49.55 ppm	98
121) Isodrin	10.182	193	41820	48.01 ppm	88
122) Benzidine	10.513	184	316800	50.90 ppm	97
123) Pyrene	10.620	202	488248	51.09 ppm	99
125) Aramite	10.872	185	62185m	94.25 ppm	
126) p-(Dimethylamino)azobe...	10.989	120	144895	50.45 ppm	95
127) Chlorobenzilate	11.043	139	164257	50.52 ppm	87
128) Butyl benzyl phthalate	11.476	149	237626	49.22 ppm	99
129) 3,3-Dimethylbenzidine	11.465	212	313856	50.64 ppm	99
130) 2-Acetylaminofluorene	11.856	181	212716	51.78 ppm	100
131) 3,3'-Dichlorobenzidine	12.337	252	170521	50.37 ppm	98
132) Benzo(a)anthracene	12.364	228	427205	49.61 ppm	98
133) Chrysene	12.428	228	403729	49.04 ppm	99
134) bis(2-Ethylhexyl)phtha...	12.449	149	337865	49.10 ppm	98
136) Di-n-octyl phthalate	13.770	149	569672	50.71 ppm	98
137) 7,12-Dimethylbenz(a)an...	14.482	256	209639	50.74 ppm	94
138) Benzo(b)Fluoranthene	14.487	252	415250	50.35 ppm	97
139) Benzo(k)fluoranthene	14.546	252	389557	50.74 ppm	99
140) Benzo(a)pyrene	15.183	252	360094	50.84 ppm	96
141) 3-Methylcholanthrene	15.958	268	220615	52.92 ppm	94
142) Indeno(1,2,3-cd)Pyrene	17.258	276	287522	51.38 ppm	92
143) Dibenz(a,h)anthracene	17.306	278	331576	51.84 ppm	98
144) Benzo(g,h,i)perylene	17.712	276	289537	51.61 ppm	98

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

1st DM 07/29/16
2nd MW 07/29/16

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Data Path : I:\ACQUDATA\5973D\Data\072816\
Data File : BH246.D
Acq On    : 28 Jul 2016   4:05 pm
Operator  : J.Misiurewicz
Sample    : 50 ppm STD                          Inst    : 5973D
Misc      : Initial Calibration 8270D/625
ALS Vial  : 7   Sample Multiplier: 1

Quant Time: Jul 29 07:49:52 2016
Quant Method : I:\ACQUDATA\5973D\Methods\8270072816.M
Quant Title  : 8270 BNA ANALYSIS
QLast Update : Fri Jul 29 07:31:03 2016
Response via : Initial Calibration
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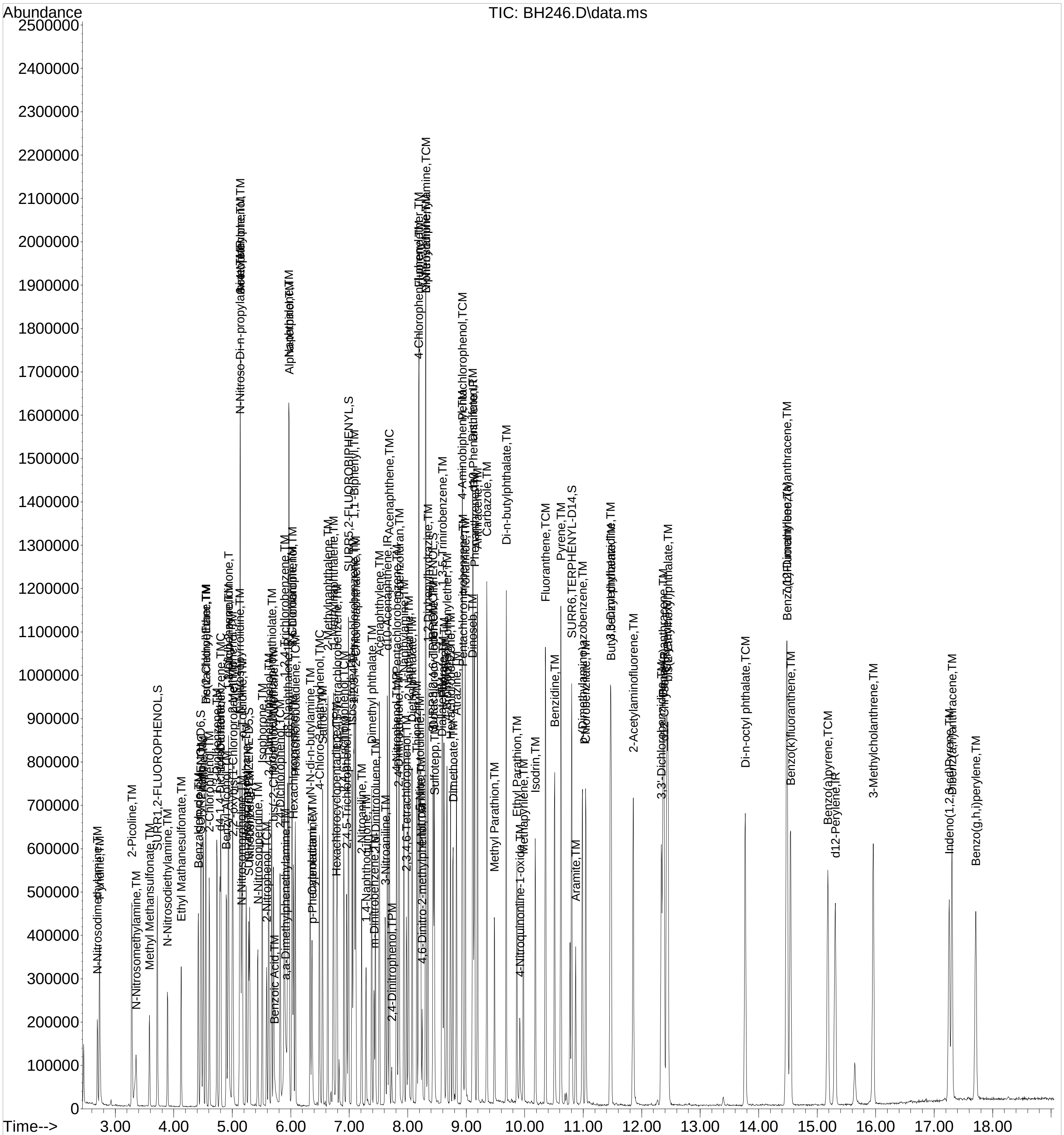
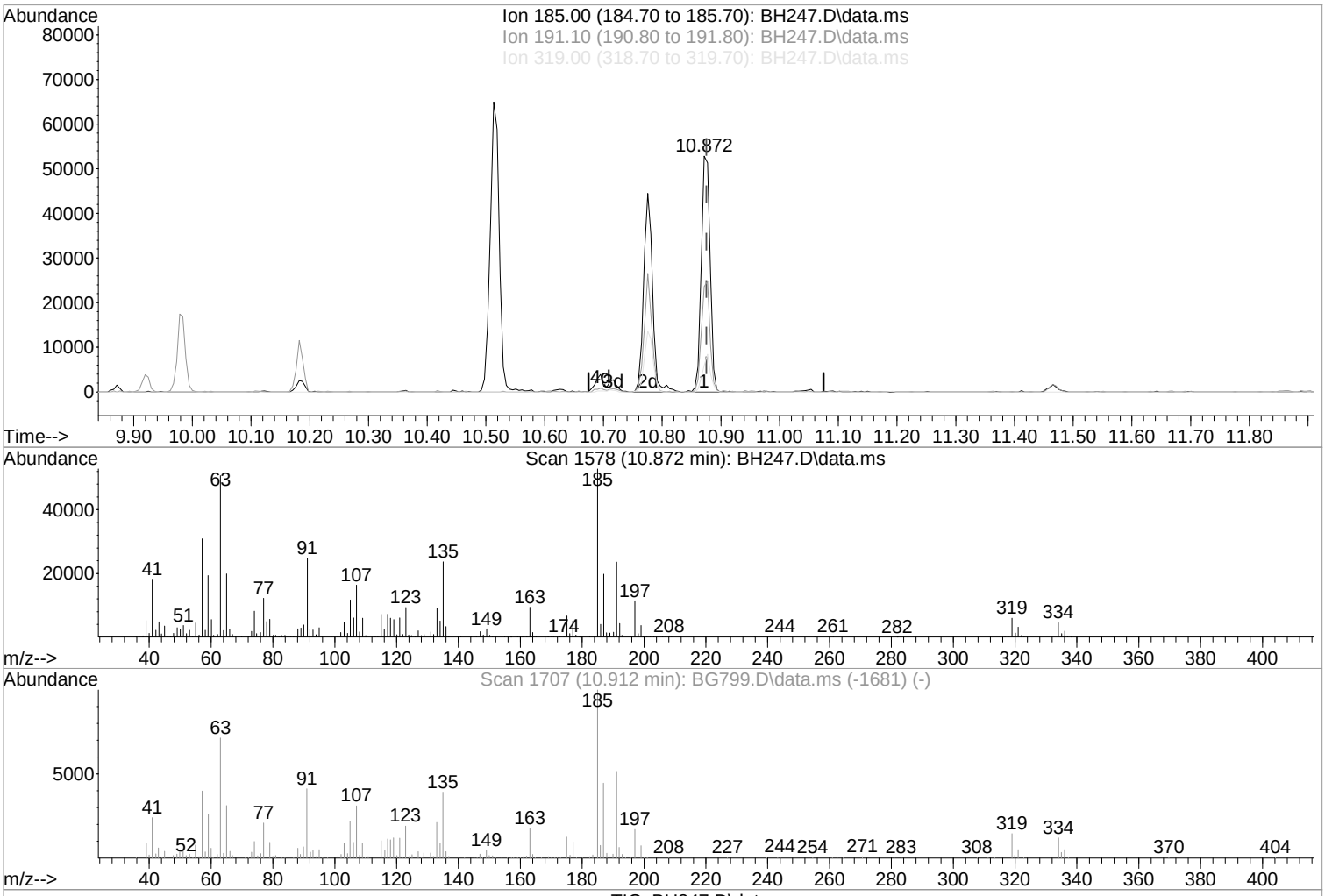


1st DM 07/29/16
2nd MW 07/29/16

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\5973D\Data\072816\
Data File : BH247.D
Acq On : 28 Jul 2016 4:33 pm
Operator : J.Misiurewicz
Sample : 80 ppm STD Inst : 5973D
Misc : Initial Calibration 8270D/625
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jul 29 07:41:27 2016
Quant Method : I:\ACQUDATA\5973D\Methods\8270072816.M
Quant Title : 8270 BNA ANALYSIS
QLast Update : Fri Jul 29 07:31:03 2016
Response via : Initial Calibration



TIC: BH247.D\data.ms

(125) Aramite (TM)

10.872min (-0.004) 155.25 ppm m

response 101859

Ion	Exp%	Act%
185.00	100	100
191.10	48.70	44.65
319.00	15.90	11.29
0.00	0.00	0.00

Manual Integration:

After

Split Peak

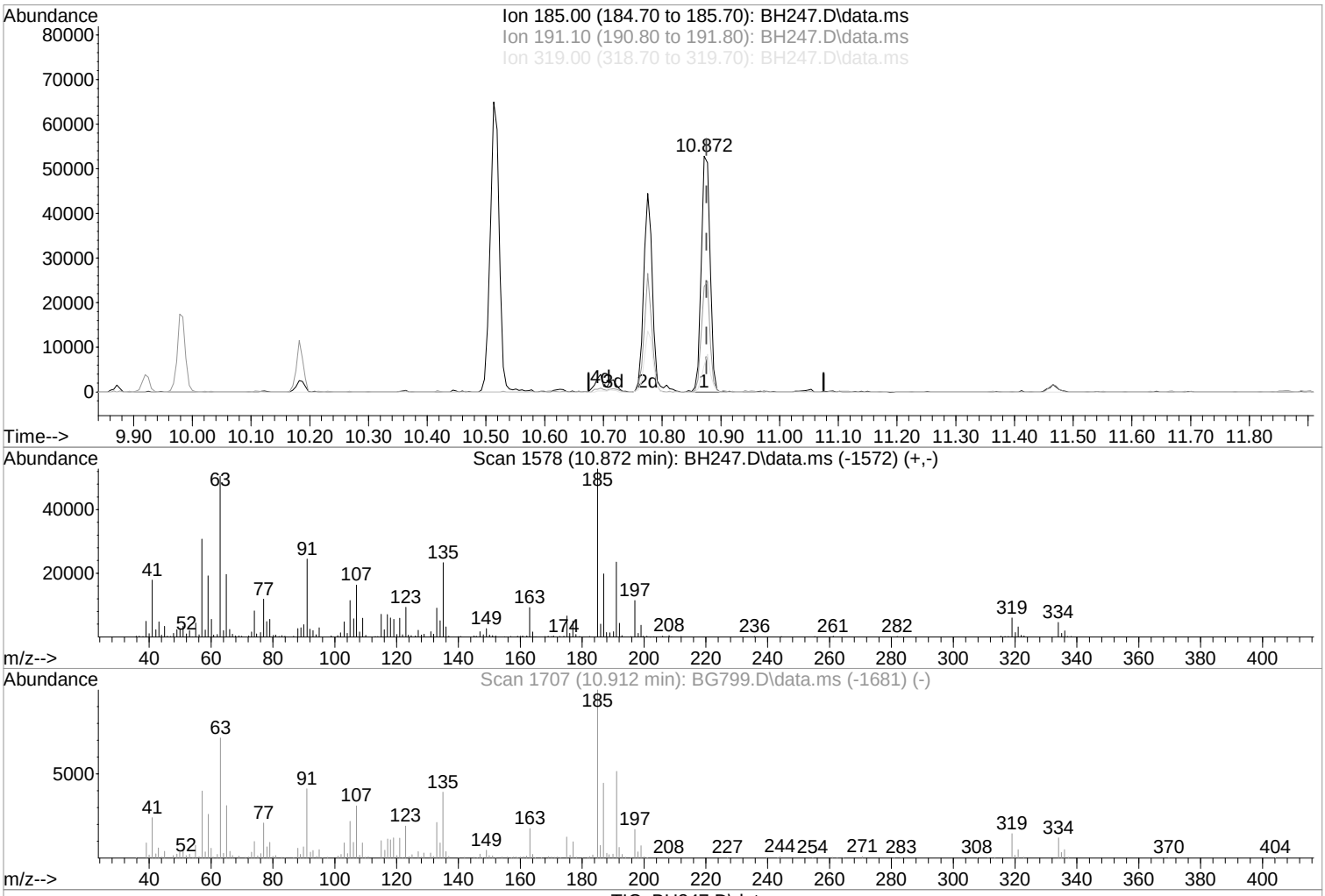
07/29/16

1st DM 07/29/16
2nd MW 07/29/16

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\5973D\Data\072816\
Data File : BH247.D
Acq On : 28 Jul 2016 4:33 pm
Operator : J.Misiurewicz
Sample : 80 ppm STD Inst : 5973D
Misc : Initial Calibration 8270D/625
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jul 29 07:41:27 2016
Quant Method : I:\ACQUDATA\5973D\Methods\8270072816.M
Quant Title : 8270 BNA ANALYSIS
QLast Update : Fri Jul 29 07:31:03 2016
Response via : Initial Calibration



TIC: BH247.D\data.ms

(125) Aramite (TM)

10.872min (-0.004) 83.35 ppm

response 54684

Ion	Exp%	Act%
185.00	100	100
191.10	48.70	44.53
319.00	15.90	11.29
0.00	0.00	0.00

Manual Integration:

Before

07/29/16

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\5973D\Data\072816\
Data File : BH247.D
Acq On : 28 Jul 2016 4:33 pm
Operator : J.Misiurewicz
Sample : 80 ppm STD Inst : 5973D
Misc : Initial Calibration 8270D/625
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jul 29 07:51:15 2016
Quant Method : I:\ACQUDATA\5973D\Methods\8270072816.M
Quant Title : 8270 BNA ANALYSIS
QLast Update : Fri Jul 29 07:31:03 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) d4-1,4-Dichlorobenzene	4.790	152	77186	40.00	ppm	0.00
33) d8-Naphthalene	5.951	136	352486	40.00	ppm	0.00
57) d10-Acenaphthene	7.652	164	194377	40.00	ppm	0.00
91) d10-Phenanthrene	9.123	188	323122	40.00	ppm	0.00
117) d12-Chrysene	12.385	240	301039	40.00	ppm	0.00
135) d12-Perylene	15.311	264	284789	40.00	ppm	0.00
System Monitoring Compounds						
7) SURR1,2-FLUOROPHENOL	3.721	112	233774	80.62	ppm	0.00
Spiked Amount 200.000	Range 10 - 105		Recovery = 40.31%			
12) SURR2,PHENOL-D6	4.464	99	273862	81.38	ppm	0.00
Spiked Amount 200.000	Range 10 - 107		Recovery = 40.69%			
34) SURR4,NITROBENZENE-D5	5.282	82	222063	79.73	ppm	0.00
Spiked Amount 100.000	Range 31 - 110		Recovery = 79.73%			
63) SURR5,2-FLUOROBIPHENYL	6.989	172	498244	80.05	ppm	0.00
Spiked Amount 100.000	Range 31 - 118		Recovery = 80.05%			
88) SURR3,2,4,6-TRIBROMOPH...	8.438	330	62682	84.59	ppm	0.00
Spiked Amount 200.000	Range 35 - 141		Recovery = 42.30%			
124) SURR6,TERPHENYL-D14	10.808	244	510267	82.48	ppm	0.00
Spiked Amount 100.000	Range 30 - 133		Recovery = 82.48%			
Target Compounds						Qvalue
2) Pyridine	2.731	79	241873	78.95	ppm	97
3) N-Nitrosodimethylamine	2.694	74	140235	79.46	ppm	98
4) 2-Picoline	3.282	93	244649	80.17	ppm	99
5) N-Nitrosomethylamine	3.357	42	113783	71.79	ppm	96
6) Methyl Methansulfonate	3.587	80	111330	78.58	ppm	96
8) N-Nitrosodiethylamine	3.897	102	98153	81.49	ppm	96
9) Ethyl Mathanesulfonate	4.132	79	182587	80.48	ppm	97
10) Benzaldehyde	4.421	106	142210	77.62	ppm	97
11) Aniline	4.507	93	391715	80.20	ppm	99
13) Phenol	4.475	94	270981	79.60	ppm	91
14) bis(2-Clethyl)Ether	4.550	93	209008	79.33	ppm	98
15) Pentachloroethane	4.550	117	74610	78.12	ppm	94
16) 2-Chlorophenol	4.608	128	224977	81.96	ppm	94
17) 1,3-Diclbenzene	4.742	146	240513	80.14	ppm	99
18) 1,4-Dichlorobenzene	4.801	146	246504	79.20	ppm	97
19) 1,2-Diclbenzene	4.935	146	240754	80.92	ppm	97
20) Benzyl Alcohol	4.903	79	163621	80.69	ppm	94
21) 1-Methyl-2-pyrrolidinone	4.951	99	163829	80.05	ppm	93
22) 2,2'-oxybis(1-Chloropr...	5.015	45	291217	78.25	ppm	97
23) 2-Methylphenol	5.010	108	203029	79.11	ppm	98
24) 3+4-Methylphenol	5.143	108	215395	79.66	ppm	97
25) Acetophenone	5.143	105	347514	79.23	ppm	99
26) N-Nitroso-Di-n-propyla...	5.138	70	183675	79.34	ppm	99
27) N-Nitrosopyrrolidine	5.133	100	131869	80.60	ppm	97
28) N-Nitrosomorpholine	5.165	56	137919	76.30	ppm	92
29) o-Toluidine	5.175	106	363450	79.40	ppm	97
30) Hexachloroethane	5.240	117	99607	80.21	ppm	97
31) o,o,o-Triethylphosphor...	5.678	198	107675	78.64	ppm	95
32) Alpha-terpinol	5.972	121	90476	81.48	ppm	93
35) Nitrobenzene	5.298	77	219218	79.48	ppm	97
36) N-Nitrosopiperidine	5.438	42	150301	78.43	ppm	98
37) Isophorone	5.512	82	426841	78.10	ppm	99
38) 2-Nitrophenol	5.593	139	106136	84.67	ppm	98

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\5973D\Data\072816\
Data File : BH247.D
Acq On : 28 Jul 2016 4:33 pm
Operator : J.Misiurewicz
Sample : 80 ppm STD Inst : 5973D
Misc : Initial Calibration 8270D/625
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jul 29 07:51:15 2016
Quant Method : I:\ACQUDATA\5973D\Methods\8270072816.M
Quant Title : 8270 BNA ANALYSIS
QLast Update : Fri Jul 29 07:31:03 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
39) Benzoic Acid	5.737	105	87397	75.35	ppm		90
40) 2,4-Dimethylphenol	5.625	107	223039	79.45	ppm		97
41) bis(-2-Chloroethoxy)Me...	5.710	93	267307	76.96	ppm		99
42) 2,4-Dichlorophenol	5.823	162	176745	79.15	ppm		98
43) a,a-Dimethylphenethyla...	5.940	58	621894	80.56	ppm		96
44) 1,2,4-Trichlorobenzene	5.892	180	199990	76.59	ppm		95
45) Naphthalene	5.972	128	665819	76.33	ppm		99
46) 4-Chloroaniline	6.021	127	293199	78.83	ppm		99
47) 2,6-Dichlorophenol	6.031	162	184018	78.78	ppm		96
48) Hexachlorobutadiene	6.079	225	110276	77.41	ppm		100
49) Hexachloropropene	6.047	213	132335	77.97	ppm		100
50) 4-Chloro-3-methylphenol	6.497	107	196424	82.86	ppm		92
51) N-N-di-n-butylamine	6.336	84	163608	71.45	ppm		99
52) Caprolactam	6.379	113	76715	76.79	ppm		97
53) p-Phenylenediamine	6.374	80	23682	69.97	ppm		87
54) Safrole	6.545	162	165526	78.82	ppm		98
55) 2-Methylnaphthalene	6.636	142	436110	78.50	ppm		99
56) 1-Methylnaphthalene	6.732	142	407189	77.31	ppm		98
58) Hexachlorocyclopentadiene	6.780	237	90101	83.55	ppm		97
59) 1,2,4,5-Tetrachloroben...	6.796	216	190348	78.66	ppm		100
60) 1,2,3,4-Tetrachloroben...	7.074	216	210944	82.13	ppm		97
61) 2,4,6-Trichlorophenol	6.914	196	133333	85.92	ppm		96
62) 2,4,5-Trichlorophenol	6.962	196	132450	84.83	ppm		99
64) Isosafrole	7.053	104	93556	82.34	ppm		94
65) 1,1'-Biphenyl	7.090	154	588432	81.32	ppm		99
66) 2-Chloronaphthalene	7.112	162	438673	79.86	ppm		99
67) 2-Nitroaniline	7.213	65	123871	86.57	ppm		99
68) 1,4-Naphthoquinone	7.288	158	91026	83.31	ppm		93
69) m-Dinitrobenzene	7.427	168	61139	80.28	ppm		96
70) Acenaphthylene	7.518	152	694089	82.53	ppm		99
71) Dimethyl phthalate	7.390	163	452490	79.79	ppm		100
72) 2,6-Dinitrotoluene	7.454	165	96279	86.08	ppm		97
73) Acenaphthene	7.689	153	449651	80.95	ppm		97
74) 3-Nitroaniline	7.620	138	125506	84.73	ppm		97
75) 2,4-Dinitrophenol	7.732	184	27539	81.81	ppm		98
76) Dibenzofuran	7.855	168	602696	80.70	ppm		96
77) 2,4-Dinitrotoluene	7.850	165	120857	82.89	ppm		96
78) 4-Nitrophenol	7.807	65	70198	80.58	ppm		96
79) Pentachlorobenzene	7.812	250	173293	82.46	ppm		99
80) 1-Napthylamine	7.941	143	430634	77.90	ppm		98
81) 2-Napthylamine	8.016	143	471026	80.39	ppm		98
82) 2,3,4,6-Tetrachlorophenol	7.983	232	91380	83.48	ppm		94
83) Fluorene	8.192	166	489834	79.79	ppm		97
84) 4-Chlorophenyl-phenyle...	8.192	204	224801	80.48	ppm		98
85) Diethylphthalate	8.080	149	469171	79.18	ppm		99
86) 4-Nitroaniline	8.229	138	139972	87.54	ppm		98
87) 5-Nitro-o-toluidine	8.213	152	142693	87.02	ppm		93
89) Sulfotepp	8.460	322	65772	85.38	ppm		93
90) Octachlorocyclopentene	8.438	307	69288	86.30	ppm		92
92) Thionazin	8.160	107	89399	77.45	ppm		100
93) 4,6-Dinitro-2-methylph...	8.256	198	51818	81.00	ppm		80
94) Diphenylamine	8.315	169	833430	157.01	ppm		100
95) 1,2 Diphenylhydrazine	8.347	77	541110	79.03	ppm		98
96) N-Nitrosodiphenylamine	8.315	169	833430	157.01	ppm		100
97) 1,3,5-Trinirobenzene	8.604	213	24967	83.20	ppm	#	1
98) Diallate	8.588	86	201245	77.08	ppm		92

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\5973D\Data\072816\
Data File : BH247.D
Acq On : 28 Jul 2016 4:33 pm
Operator : J.Misiurewicz
Sample : 80 ppm STD Inst : 5973D
Misc : Initial Calibration 8270D/625
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jul 29 07:51:15 2016
Quant Method : I:\ACQUDATA\5973D\Methods\8270072816.M
Quant Title : 8270 BNA ANALYSIS
QLast Update : Fri Jul 29 07:31:03 2016
Response via : Initial Calibration

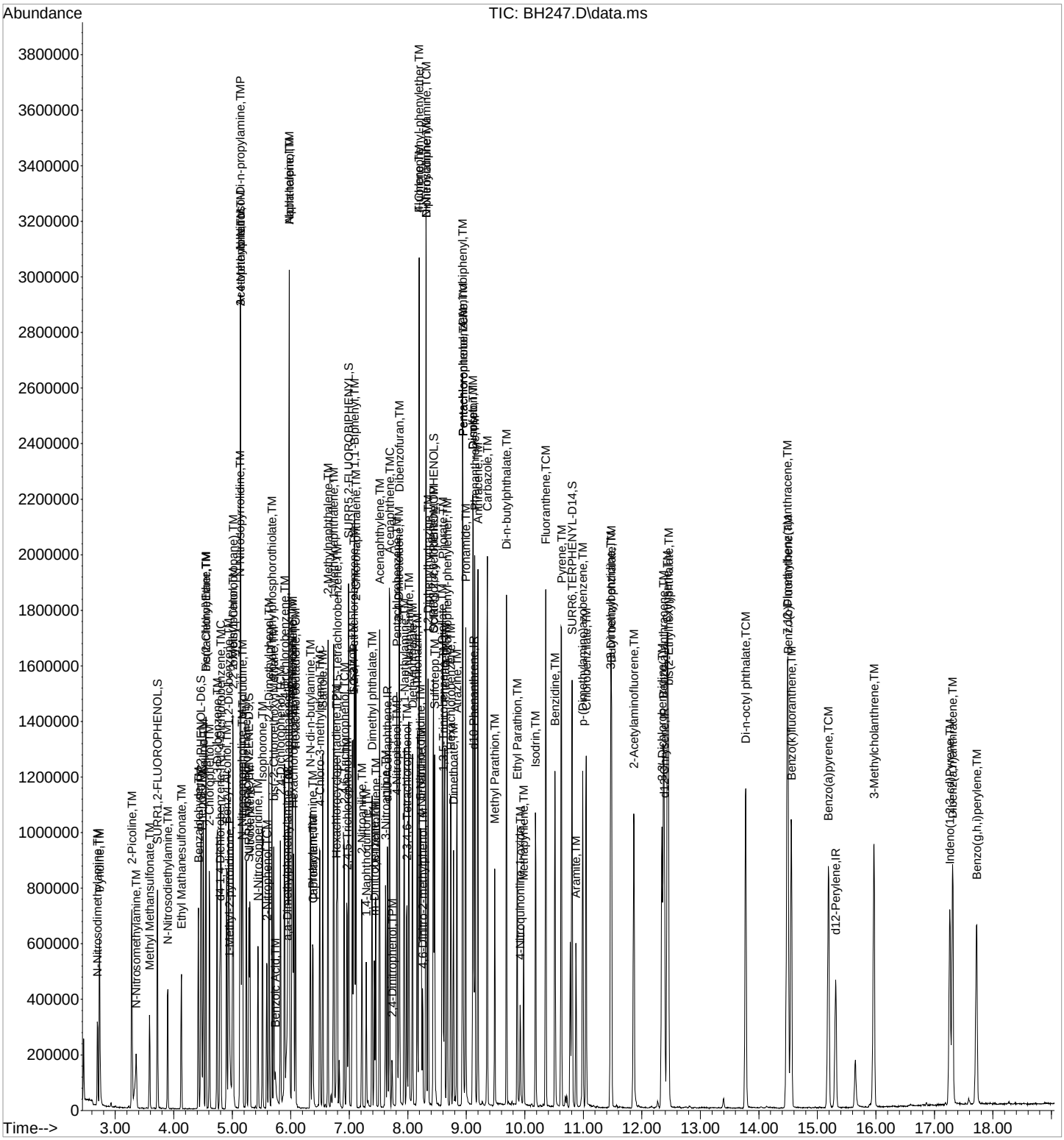
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
99)	Phorate	8.599	121	104402	81.55	ppm	88
100)	Phenacetin	8.631	108	282167	82.30	ppm	93
101)	4-Bromophenyl-phenylether	8.673	248	122088	76.01	ppm	97
102)	Hexachlorobenzene	8.732	284	139380	76.46	ppm	94
103)	Dimethoate	8.780	87	176422	78.15	ppm	96
104)	Atrazine	8.839	215	64067	85.64	ppm	93
105)	Pentachlorophenol	8.941	266	64863	85.12	ppm	96
106)	4-Aminobiphenyl	8.936	169	537355	84.81	ppm	100
107)	Pentachloronitrobenzene	8.941	237	54413	86.19	ppm	98
108)	Pronamide	8.989	173	251787	85.98	ppm	99
109)	Dinoseb	9.112	211	63981	74.21	ppm	99
110)	Disulfoton	9.112	88	257666	77.08	ppm	98
111)	Phenanthrene	9.144	178	684267	80.05	ppm	99
112)	Anthracene	9.198	178	706562	82.46	ppm	99
113)	Carbazole	9.358	167	748518	82.38	ppm	99
114)	Di-n-butylphthalate	9.684	149	890333	86.85	ppm	99
115)	4-Nitroquinonline-1-oxide	9.920	190	32950	78.04	ppm	87
116)	Fluoranthene	10.358	202	769681	84.49	ppm	98
118)	Methyl Parathion	9.486	109	124624	87.06	ppm	99
119)	Ethyl Parathion	9.872	97	96497	81.41	ppm	98
120)	Methapyrilene	9.979	58	174669	72.66	ppm	100
121)	Isodrin	10.182	193	74546	86.07	ppm	95
122)	Benzidine	10.513	184	506636	81.85	ppm	97
123)	Pyrene	10.626	202	795828	83.74	ppm	99
125)	Aramite	10.872	185	101859m	155.25	ppm	
126)	p-(Dimethylamino)azobe...	10.989	120	241325	84.51	ppm	98
127)	Chlorobenzilate	11.048	139	273347	84.55	ppm	94
128)	Butyl benzyl phthalate	11.481	149	383242	79.84	ppm	99
129)	3,3-Dimethylbenzidine	11.465	212	500635	81.23	ppm	100
130)	2-Acetylaminofluorene	11.861	181	347399	85.04	ppm	98
131)	3,3'-Dichlorobenzidine	12.343	252	276361	82.09	ppm	97
132)	Benzo(a)anthracene	12.369	228	693299	80.96	ppm	99
133)	Chrysene	12.434	228	658507	80.44	ppm	98
134)	bis(2-Ethylhexyl)phtha...	12.455	149	566578	82.80	ppm	98
136)	Di-n-octyl phthalate	13.776	149	956769	85.56	ppm	100
137)	7,12-Dimethylbenz(a)an...	14.487	256	341406	83.01	ppm	97
138)	Benzo(b)Fluoranthene	14.498	252	695057	84.66	ppm	97
139)	Benzo(k)fluoranthene	14.557	252	626158	81.92	ppm	98
140)	Benzo(a)pyrene	15.188	252	590084	83.68	ppm	95
141)	3-Methylcholanthrene	15.969	268	357430	86.12	ppm	97
142)	Indeno(1,2,3-cd)Pyrene	17.263	276	450587	80.88	ppm	98
143)	Dibenz(a,h)anthracene	17.311	278	524071	82.31	ppm	99
144)	Benzo(g,h,i)perylene	17.723	276	424742	76.05	ppm	98

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

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\5973D\Data\072816\
Data File : BH247.D
Acq On : 28 Jul 2016 4:33 pm
Operator : J.Misiurewicz
Sample : 80 ppm STD Inst : 5973D
Misc : Initial Calibration 8270D/625
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jul 29 07:51:15 2016
Quant Method : I:\ACQUDATA\5973D\Methods\8270072816.M
Quant Title : 8270 BNA ANALYSIS
QLast Update : Fri Jul 29 07:31:03 2016
Response via : Initial Calibration

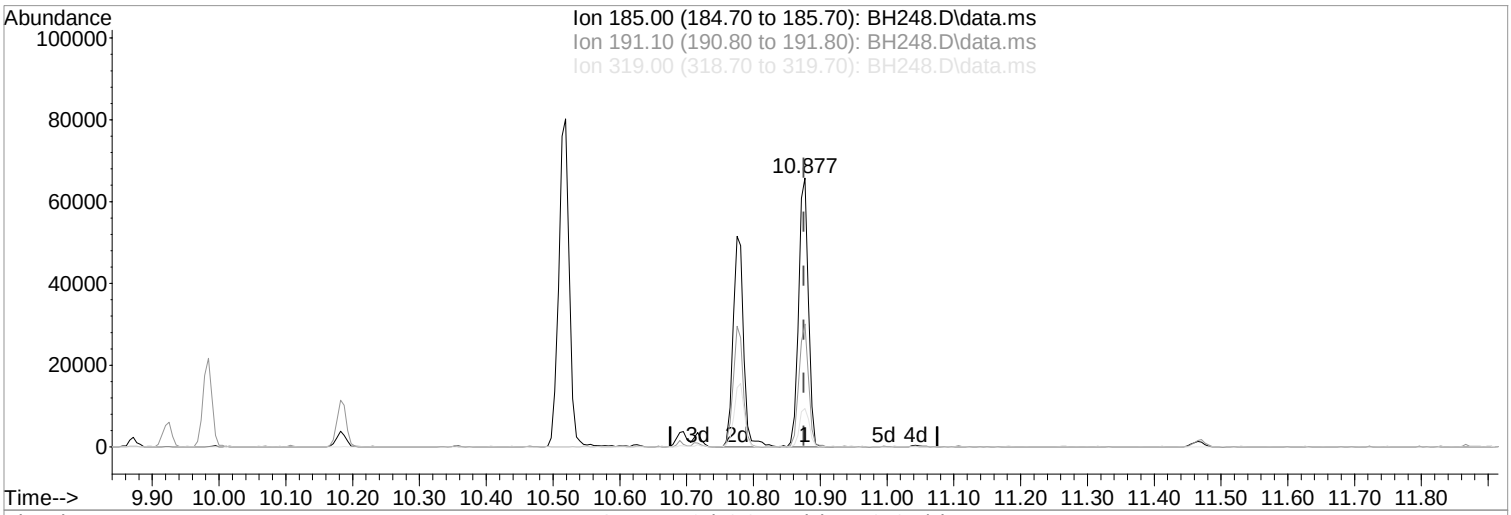


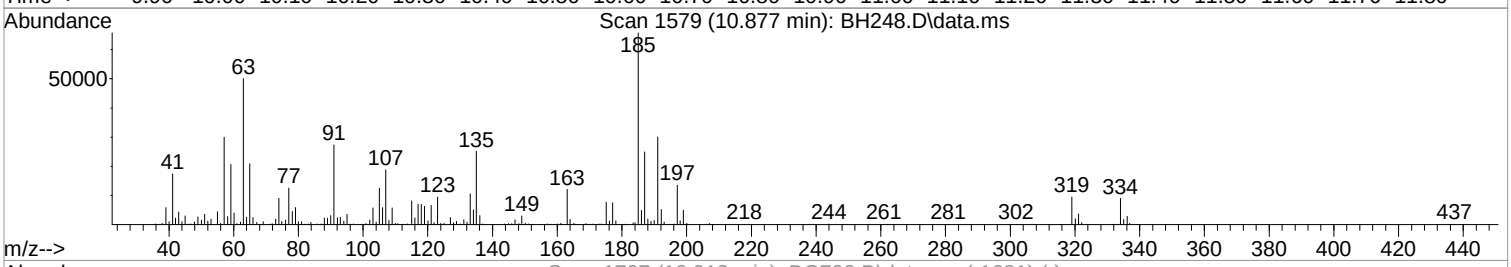
1st DM 07/29/16
2nd MW 07/29/16

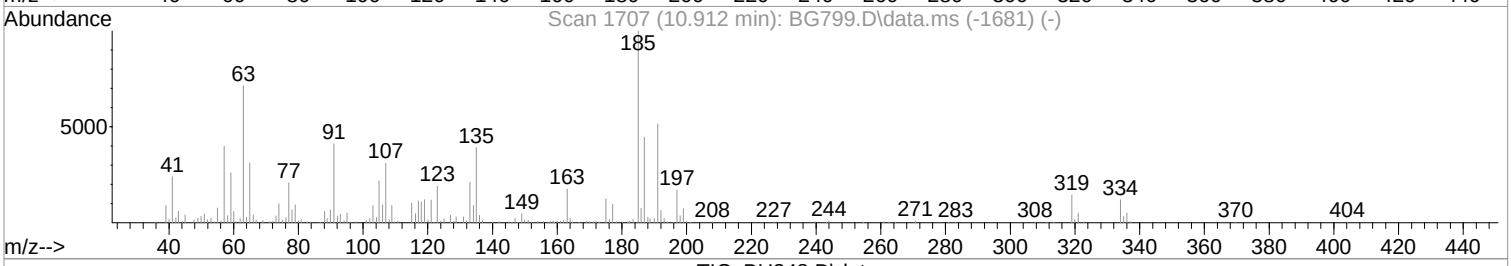
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\5973D\Data\072816\
Data File : BH248.D
Acq On : 28 Jul 2016 5:00 pm
Operator : J.Misiurewicz
Sample : 100 ppm STD Inst : 5973D
Misc : Initial Calibration 8270D/625
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jul 29 07:41:32 2016
Quant Method : I:\ACQUDATA\5973D\Methods\8270072816.M
Quant Title : 8270 BNA ANALYSIS
QLast Update : Fri Jul 29 07:31:03 2016
Response via : Initial Calibration







TIC: BH248.D\data.ms

(125) Aramite (TM)

10.877min (+0.002) 192.29 ppm m

response 124509

Ion	Exp%	Act%
185.00	100	100
191.10	48.70	45.80
319.00	15.90	14.36
0.00	0.00	0.00

Manual Integration:

After

Split Peak

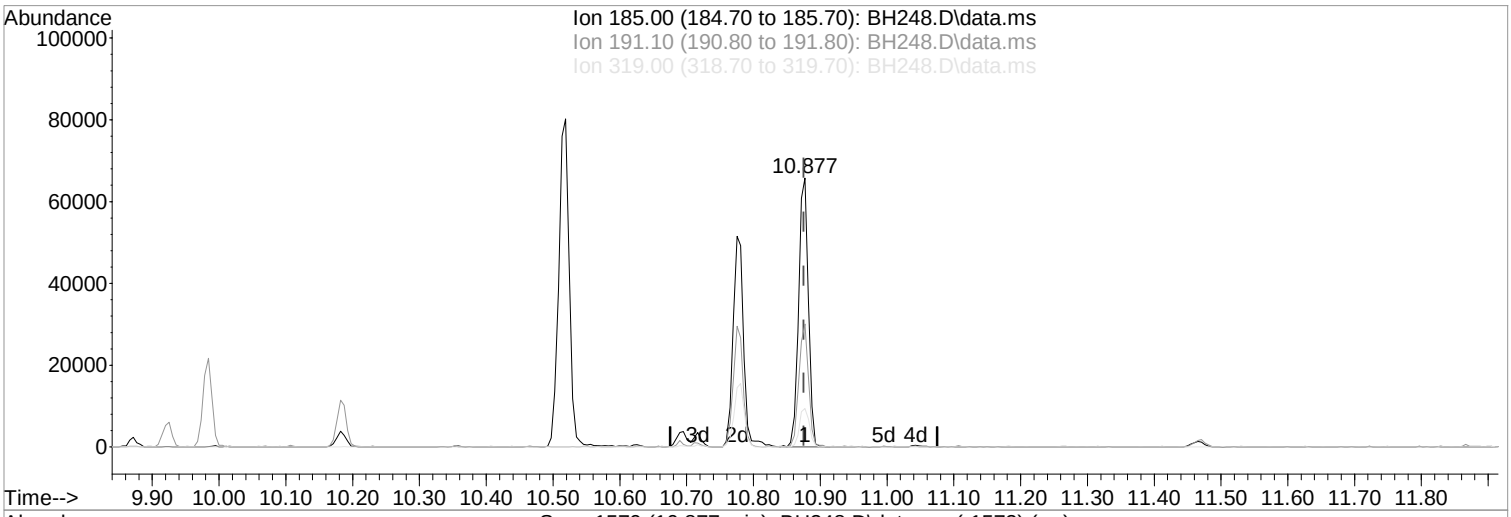
07/29/16

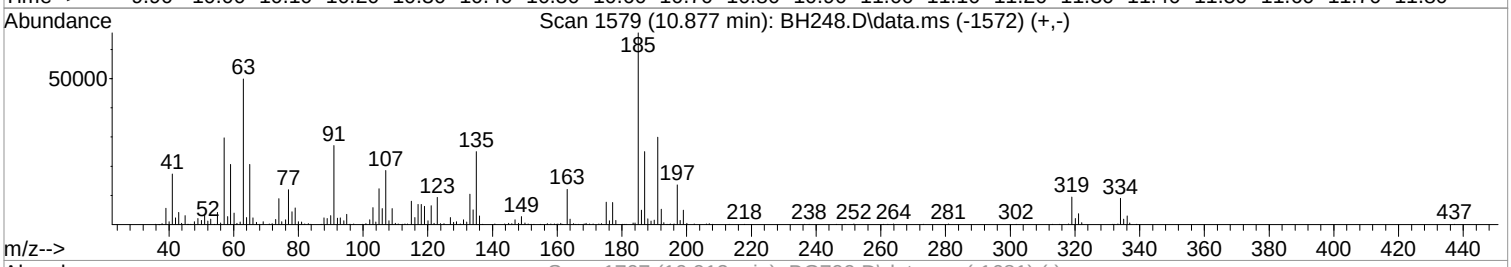
1st DM 07/29/16
2nd MW 07/29/16

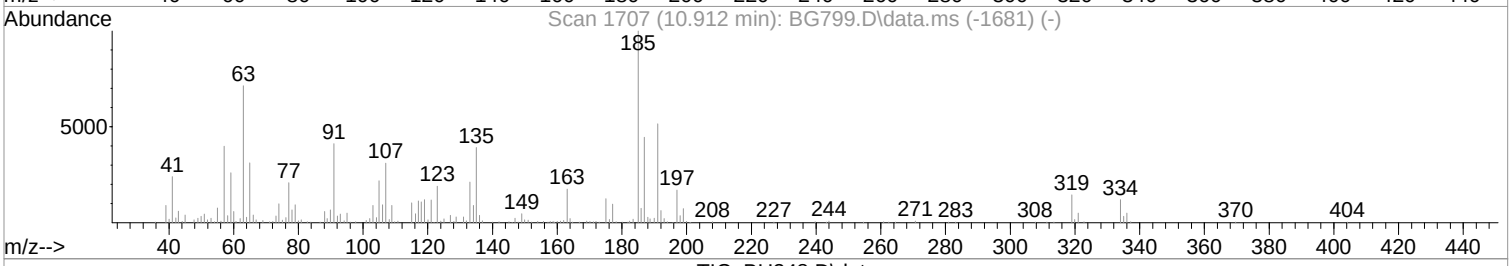
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\5973D\Data\072816\
Data File : BH248.D
Acq On : 28 Jul 2016 5:00 pm
Operator : J.Misiurewicz
Sample : 100 ppm STD Inst : 5973D
Misc : Initial Calibration 8270D/625
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jul 29 07:41:32 2016
Quant Method : I:\ACQUDATA\5973D\Methods\8270072816.M
Quant Title : 8270 BNA ANALYSIS
QLast Update : Fri Jul 29 07:31:03 2016
Response via : Initial Calibration







TIC: BH248.D\data.ms

(125) Aramite (TM)

10.877min (+0.002) 104.14 ppm

response 67433

Ion	Exp%	Act%
185.00	100	100
191.10	48.70	45.57
319.00	15.90	14.36
0.00	0.00	0.00

Manual Integration:

Before

07/29/16

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\5973D\Data\072816\
Data File : BH248.D
Acq On : 28 Jul 2016 5:00 pm
Operator : J.Misiurewicz
Sample : 100 ppm STD Inst : 5973D
Misc : Initial Calibration 8270D/625
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jul 29 07:53:33 2016
Quant Method : I:\ACQUDATA\5973D\Methods\8270072816.M
Quant Title : 8270 BNA ANALYSIS
QLast Update : Fri Jul 29 07:31:03 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) d4-1,4-Dichlorobenzene	4.790	152	76594	40.00	ppm	0.00
33) d8-Naphthalene	5.951	136	347310	40.00	ppm	0.00
57) d10-Acenaphthene	7.652	164	201702	40.00	ppm	0.00
91) d10-Phenanthrene	9.123	188	333444	40.00	ppm	0.00
117) d12-Chrysene	12.391	240	297109	40.00	ppm	0.00
135) d12-Perylene	15.311	264	283650	40.00	ppm	0.00
System Monitoring Compounds						
7) SURR1,2-FLUOROPHENOL	3.721	112	294210	102.24	ppm	0.00
Spiked Amount 200.000	Range 10 - 105		Recovery = 51.12%			
12) SURR2,PHENOL-D6	4.464	99	344413	103.14	ppm	0.00
Spiked Amount 200.000	Range 10 - 107		Recovery = 51.57%			
34) SURR4,NITROBENZENE-D5	5.282	82	291208	106.11	ppm	0.00
Spiked Amount 100.000	Range 31 - 110		Recovery = 106.11%			
63) SURR5,2-FLUOROBIPHENYL	6.989	172	630254	97.58	ppm	0.00
Spiked Amount 100.000	Range 31 - 118		Recovery = 97.58%			
88) SURR3,2,4,6-TRIBROMOPH...	8.438	330	81887	106.49	ppm	0.00
Spiked Amount 200.000	Range 35 - 141		Recovery = 53.24%			
124) SURR6,TERPHENYL-D14	10.808	244	638570	104.58	ppm	0.00
Spiked Amount 100.000	Range 30 - 133		Recovery = 104.58%			
Target Compounds						Qvalue
2) Pyridine	2.731	79	304452	100.14	ppm	96
3) N-Nitrosodimethylamine	2.699	74	178710	102.05	ppm	96
4) 2-Picoline	3.282	93	307119	101.42	ppm	99
5) N-Nitrosomethylamine	3.357	42	147298	93.66	ppm	92
6) Methyl Methansulfonate	3.587	80	139558	99.26	ppm	98
8) N-Nitrosodiethylamine	3.897	102	123811	103.59	ppm	98
9) Ethyl Mathanesulfonate	4.132	79	226845	100.76	ppm	99
10) Benzaldehyde	4.421	106	175735	96.66	ppm	98
11) Aniline	4.507	93	492451	101.61	ppm	99
13) Phenol	4.475	94	340403	100.76	ppm	96
14) bis(2-Clethyl)Ether	4.550	93	263504	100.79	ppm	98
15) Pentachloroethane	4.550	117	94760	99.99	ppm	96
16) 2-Chlorophenol	4.614	128	284105	104.30	ppm	98
17) 1,3-Diclbenzene	4.742	146	300556	100.92	ppm	99
18) 1,4-Dichlorobenzene	4.806	146	312748	101.26	ppm	97
19) 1,2-Diclbenzene	4.935	146	294662	99.80	ppm	96
20) Benzyl Alcohol	4.903	79	212917	105.82	ppm	96
21) 1-Methyl-2-pyrrolidinone	4.956	99	209710	103.25	ppm	97
22) 2,2'-oxybis(1-Chloropr...	5.015	45	371450	100.58	ppm	98
23) 2-Methylphenol	5.015	108	258926	101.66	ppm	96
24) 3+4-Methylphenol	5.143	108	273972	102.11	ppm	90
25) Acetophenone	5.143	105	433777	99.67	ppm	95
26) N-Nitroso-Di-n-propyla...	5.143	70	232280	101.11	ppm	100
27) N-Nitrosopyrrolidine	5.138	100	168531	103.81	ppm	77
28) N-Nitrosomorpholine	5.165	56	174208	97.12	ppm	100
29) o-Toluidine	5.175	106	465163	102.41	ppm	93
30) Hexachloroethane	5.240	117	126832	102.92	ppm	95
31) o,o,o-Triethylphosphor...	5.678	198	133497	98.26	ppm	92
32) Alpha-terpinol	5.972	121	113042	102.59	ppm	99
35) Nitrobenzene	5.304	77	283970	104.49	ppm	92
36) N-Nitrosopiperidine	5.443	42	189423	100.31	ppm	95
37) Isophorone	5.518	82	538791	100.06	ppm	99
38) 2-Nitrophenol	5.593	139	137751	111.53	ppm	98

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\5973D\Data\072816\
Data File : BH248.D
Acq On : 28 Jul 2016 5:00 pm
Operator : J.Misiurewicz
Sample : 100 ppm STD Inst : 5973D
Misc : Initial Calibration 8270D/625
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jul 29 07:53:33 2016
Quant Method : I:\ACQUDATA\5973D\Methods\8270072816.M
Quant Title : 8270 BNA ANALYSIS
QLast Update : Fri Jul 29 07:31:03 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
39) Benzoic Acid	5.748	105	121629	106.43	ppm		91
40) 2,4-Dimethylphenol	5.630	107	274668	99.30	ppm		100
41) bis(-2-Chloroethoxy)Me...	5.710	93	340543	99.51	ppm		95
42) 2,4-Dichlorophenol	5.823	162	228816	103.99	ppm		96
43) a,a-Dimethylphenethyla...	5.956	58	803411	105.62	ppm		93
44) 1,2,4-Trichlorobenzene	5.892	180	258710	100.56	ppm		97
45) Naphthalene	5.972	128	838099	97.51	ppm		99
46) 4-Chloroaniline	6.026	127	370428	101.08	ppm		98
47) 2,6-Dichlorophenol	6.031	162	230913	100.32	ppm		98
48) Hexachlorobutadiene	6.079	225	140078	99.79	ppm		98
49) Hexachloropropene	6.053	213	165657	99.06	ppm		96
50) 4-Chloro-3-methylphenol	6.497	107	240848	103.11	ppm		95
51) N-N-di-n-butylamine	6.336	84	208572	92.45	ppm		98
52) Caprolactam	6.384	113	96705	98.24	ppm		91
53) p-Phenylenediamine	6.374	80	29924	89.73	ppm		93
54) Safrole	6.545	162	207066	100.07	ppm		96
55) 2-Methylnaphthalene	6.636	142	553900	101.19	ppm		98
56) 1-Methylnaphthalene	6.732	142	518051	99.83	ppm		99
58) Hexachlorocyclopentadiene	6.780	237	119960	101.95	ppm		99
59) 1,2,4,5-Tetrachloroben...	6.796	216	247681	98.64	ppm		96
60) 1,2,3,4-Tetrachloroben...	7.074	216	262573	98.52	ppm		96
61) 2,4,6-Trichlorophenol	6.914	196	165382	102.70	ppm		97
62) 2,4,5-Trichlorophenol	6.962	196	173892	107.32	ppm		95
64) Isosafrole	7.053	104	117697	99.82	ppm		98
65) 1,1'-Biphenyl	7.090	154	741238	98.72	ppm		99
66) 2-Chloronaphthalene	7.112	162	560755	98.38	ppm		98
67) 2-Nitroaniline	7.219	65	157901	106.34	ppm		86
68) 1,4-Naphthoquinone	7.288	158	111155	98.03	ppm		94
69) m-Dinitrobenzene	7.433	168	85458	100.88	ppm		86
70) Acenaphthylene	7.518	152	855190	97.99	ppm		100
71) Dimethyl phthalate	7.390	163	570894	97.01	ppm		99
72) 2,6-Dinitrotoluene	7.454	165	127571	109.91	ppm		96
73) Acenaphthene	7.689	153	560457	97.24	ppm		96
74) 3-Nitroaniline	7.625	138	168302	109.50	ppm		94
75) 2,4-Dinitrophenol	7.732	184	36928	98.39	ppm		99
76) Dibenzofuran	7.855	168	752407	97.09	ppm		93
77) 2,4-Dinitrotoluene	7.855	165	160441	100.88	ppm		97
78) 4-Nitrophenol	7.812	65	92469	102.29	ppm		93
79) Pentachlorobenzene	7.818	250	216885	99.45	ppm		96
80) 1-Napthylamine	7.941	143	544423	94.91	ppm		99
81) 2-Napthylamine	8.021	143	588410	96.78	ppm		99
82) 2,3,4,6-Tetrachlorophenol	7.983	232	122460	107.82	ppm		94
83) Fluorene	8.197	166	611267	95.95	ppm		99
84) 4-Chlorophenyl-phenyle...	8.192	204	288407	99.51	ppm		97
85) Diethylphthalate	8.080	149	601282	97.79	ppm		100
86) 4-Nitroaniline	8.235	138	180951	109.06	ppm		96
87) 5-Nitro-o-toluidine	8.219	152	187374	110.12	ppm		99
89) Sulfotepp	8.460	322	85625	107.11	ppm		94
90) Octachlorocyclopentene	8.443	307	89154	107.01	ppm		98
92) Thionazin	8.165	107	111271	93.41	ppm		97
93) 4,6-Dinitro-2-methylph...	8.256	198	72758	102.72	ppm		89
94) Diphenylamine	8.315	169	1049939	191.68	ppm		99
95) 1,2 Diphenylhydrazine	8.347	77	672960	95.24	ppm		99
96) N-Nitrosodiphenylamine	8.315	169	1049939	191.68	ppm		99
97) 1,3,5-Trinirobenzene	8.609	213	33620	100.01	ppm	#	1
98) Diallate	8.588	86	254729	94.55	ppm		87

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\5973D\Data\072816\
Data File : BH248.D
Acq On : 28 Jul 2016 5:00 pm
Operator : J.Misiurewicz
Sample : 100 ppm STD Inst : 5973D
Misc : Initial Calibration 8270D/625
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jul 29 07:53:33 2016
Quant Method : I:\ACQUDATA\5973D\Methods\8270072816.M
Quant Title : 8270 BNA ANALYSIS
QLast Update : Fri Jul 29 07:31:03 2016
Response via : Initial Calibration

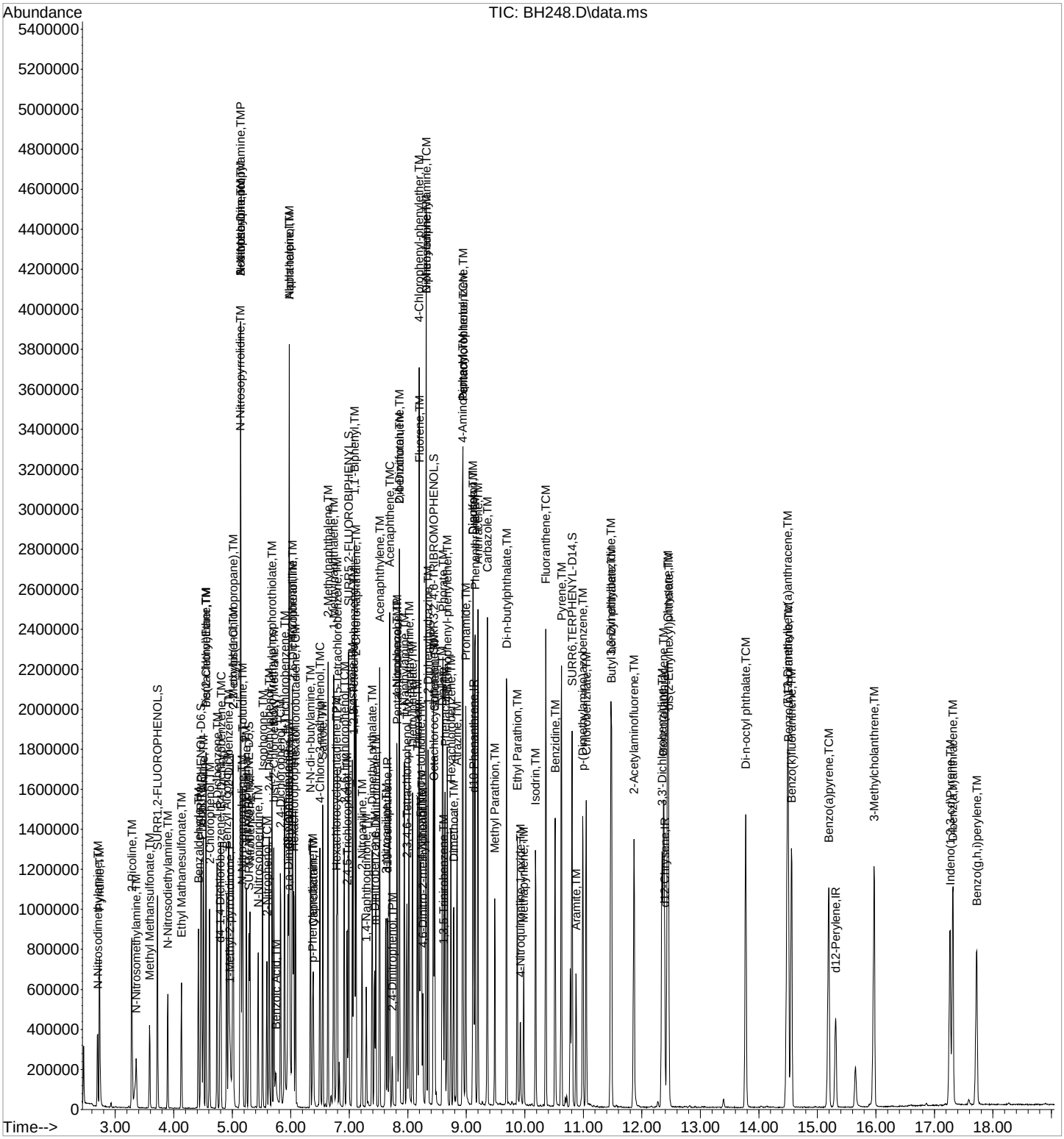
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
99)	Phorate	8.599	121	132067	99.97	ppm	99
100)	Phenacetin	8.636	108	364395	103.00	ppm	95
101)	4-Bromophenyl-phenylether	8.673	248	158778	95.80	ppm	97
102)	Hexachlorobenzene	8.738	284	177119	94.16	ppm	89
103)	Dimethoate	8.786	87	210361	90.30	ppm	98
104)	Atrazine	8.839	215	80222	103.92	ppm	95
105)	Pentachlorophenol	8.941	266	83285	105.91	ppm	96
106)	4-Aminobiphenyl	8.936	169	675124	103.25	ppm	99
107)	Pentachloronitrobenzene	8.941	237	71903	110.37	ppm	91
108)	Pronamide	8.989	173	319221	105.63	ppm	98
109)	Dinoseb	9.112	211	92329	103.78	ppm	96
110)	Disulfoton	9.112	88	323801	93.87	ppm	96
111)	Phenanthrene	9.149	178	864683	98.02	ppm	99
112)	Anthracene	9.198	178	879133	99.43	ppm	100
113)	Carbazole	9.358	167	945125	100.80	ppm	99
114)	Di-n-butylphthalate	9.690	149	1107382	104.68	ppm	99
115)	4-Nitroquinonline-1-oxide	9.925	190	43802	100.53	ppm	88
116)	Fluoranthene	10.358	202	954962	101.59	ppm	98
118)	Methyl Parathion	9.486	109	158070	111.88	ppm	99
119)	Ethyl Parathion	9.872	97	126663	103.53	ppm	92
120)	Methapyrilene	9.979	58	197577	83.28	ppm	98
121)	Isodrin	10.182	193	89907	105.18	ppm	91
122)	Benzidine	10.519	184	625047	102.32	ppm	97
123)	Pyrene	10.626	202	986544	105.19	ppm	100
125)	Aramite	10.877	185	124509m	192.29	ppm	
126)	p-(Dimethylamino)azobe...	10.989	120	304685	108.11	ppm	97
127)	Chlorobenzilate	11.048	139	328789	103.04	ppm	93
128)	Butyl benzyl phthalate	11.482	149	481001	101.53	ppm	98
129)	3,3-Dimethylbenzidine	11.471	212	635103	104.41	ppm	98
130)	2-Acetylaminofluorene	11.867	181	439351	108.98	ppm	98
131)	3,3'-Dichlorobenzidine	12.343	252	344434	103.67	ppm	99
132)	Benzo(a)anthracene	12.369	228	860632	101.83	ppm	99
133)	Chrysene	12.439	228	826305	102.27	ppm	98
134)	bis(2-Ethylhexyl)phtha...	12.455	149	717893	106.30	ppm	98
136)	Di-n-octyl phthalate	13.776	149	1206231	108.30	ppm	99
137)	7,12-Dimethylbenz(a)an...	14.493	256	433572	105.85	ppm	96
138)	Benzo(b)Fluoranthene	14.503	252	856728	104.77	ppm	98
139)	Benzo(k)fluoranthene	14.557	252	793932	104.29	ppm	98
140)	Benzo(a)pyrene	15.193	252	737858	105.05	ppm	98
141)	3-Methylcholanthrene	15.969	268	453130	109.62	ppm	98
142)	Indeno(1,2,3-cd)Pyrene	17.269	276	566863	102.16	ppm	95
143)	Dibenz(a,h)anthracene	17.317	278	647559	102.11	ppm	99
144)	Benzo(g,h,i)perylene	17.723	276	519071	93.31	ppm	98

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

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\5973D\Data\072816\
Data File : BH248.D
Acq On : 28 Jul 2016 5:00 pm
Operator : J.Misiurewicz
Sample : 100 ppm STD Inst : 5973D
Misc : Initial Calibration 8270D/625
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jul 29 07:53:33 2016
Quant Method : I:\ACQUDATA\5973D\Methods\8270072816.M
Quant Title : 8270 BNA ANALYSIS
QLast Update : Fri Jul 29 07:31:03 2016
Response via : Initial Calibration

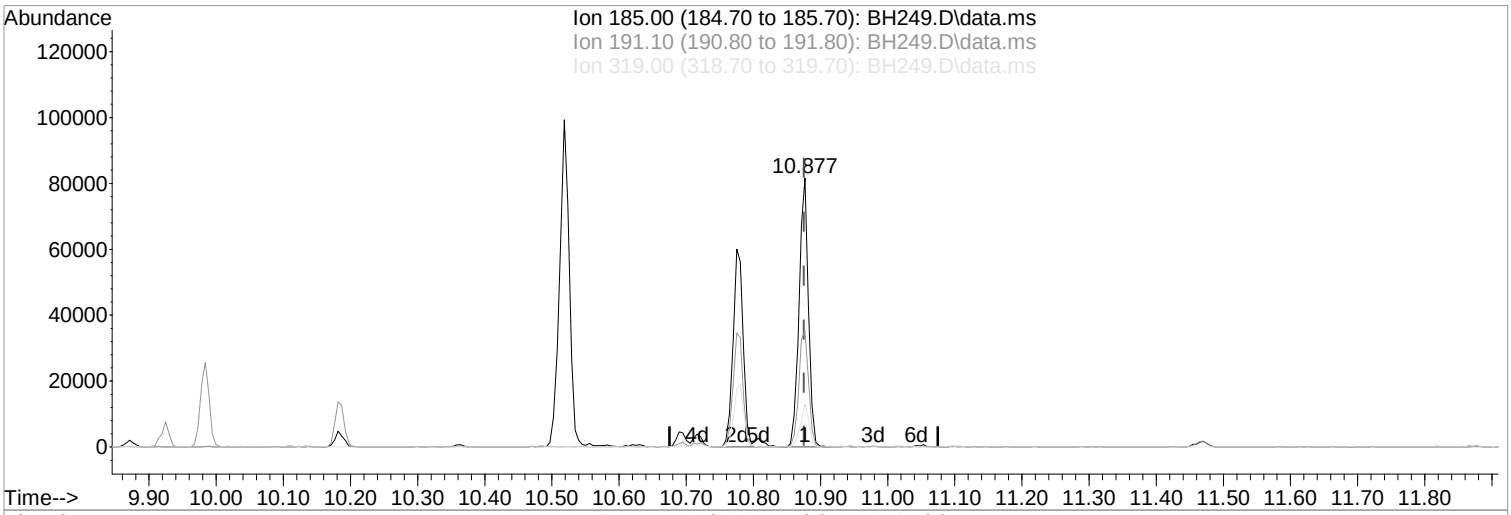


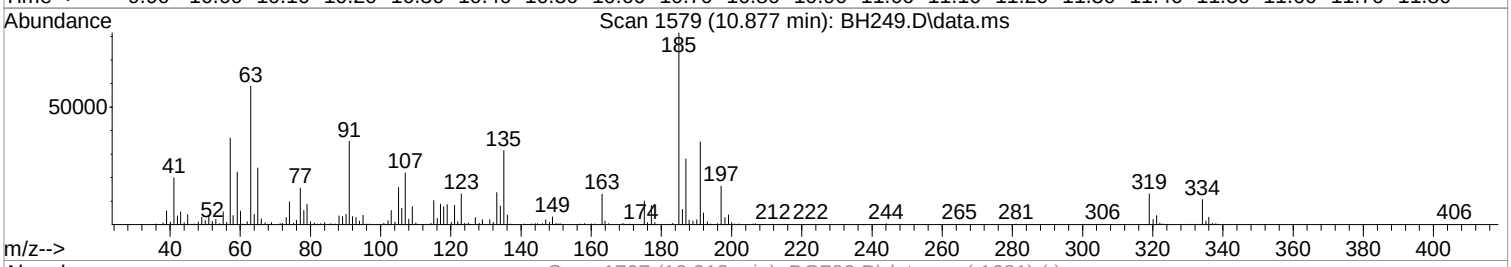
1st DM 07/29/16
2nd MW 07/29/16

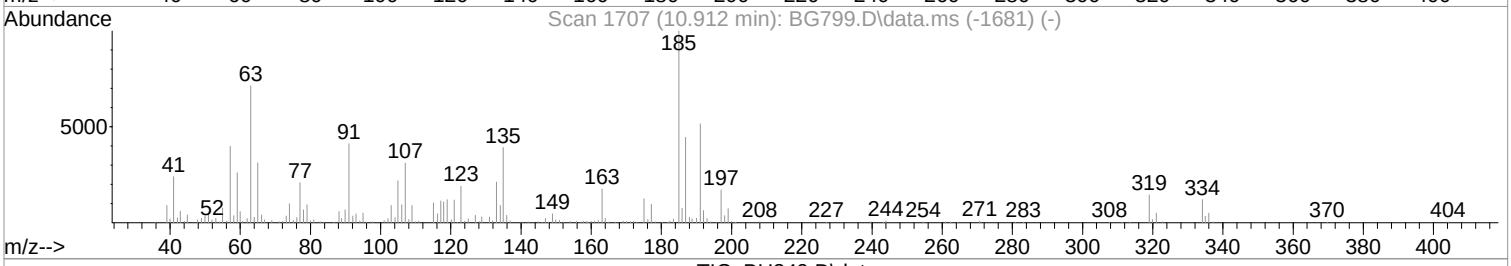
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\5973D\Data\072816\
Data File : BH249.D
Acq On : 28 Jul 2016 5:28 pm
Operator : J.Misiurewicz
Sample : 120 ppm STD Inst : 5973D
Misc : Initial Calibration 8270D/625
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jul 29 07:41:37 2016
Quant Method : I:\ACQUDATA\5973D\Methods\8270072816.M
Quant Title : 8270 BNA ANALYSIS
QLast Update : Fri Jul 29 07:31:03 2016
Response via : Initial Calibration







TIC: BH249.D\data.ms

(125) Aramite (TM)

10.877min (+0.002) 221.97 ppm m

response 144992

Ion	Exp%	Act%
185.00	100	100
191.10	48.70	43.12
319.00	15.90	16.04
0.00	0.00	0.00

Manual Integration:

After

Split Peak

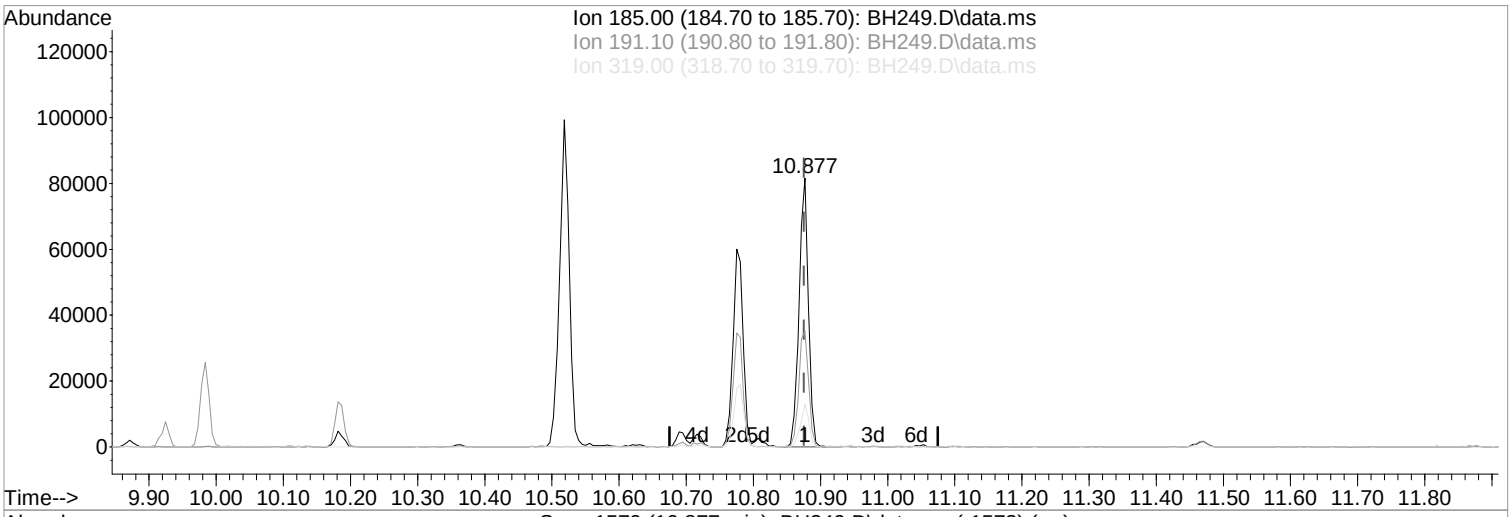
07/29/16

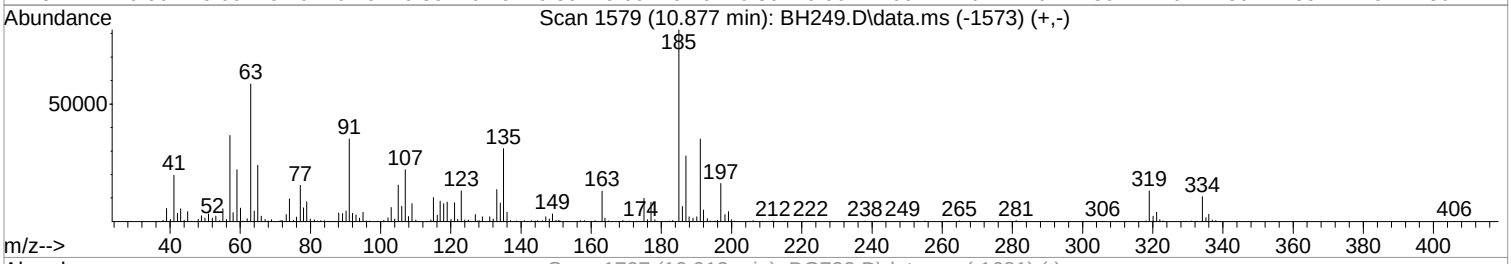
1st DM 07/29/16
2nd MW 07/29/16

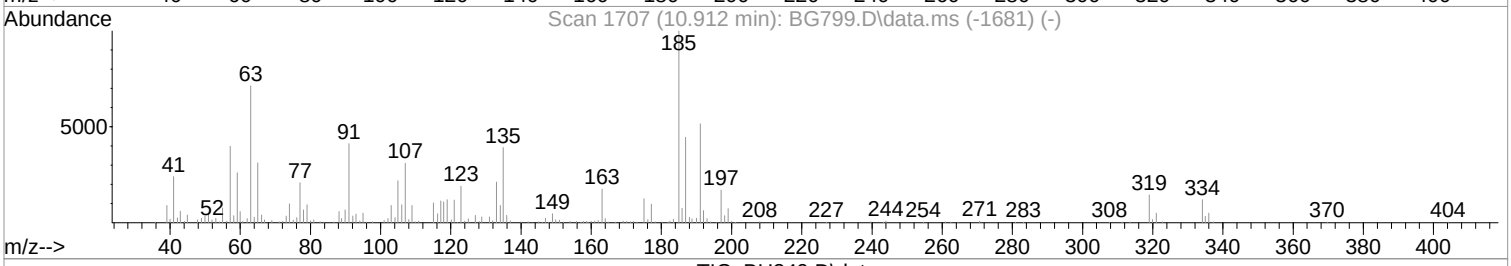
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\5973D\Data\072816\
Data File : BH249.D
Acq On : 28 Jul 2016 5:28 pm
Operator : J.Misiurewicz
Sample : 120 ppm STD Inst : 5973D
Misc : Initial Calibration 8270D/625
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jul 29 07:41:37 2016
Quant Method : I:\ACQUDATA\5973D\Methods\8270072816.M
Quant Title : 8270 BNA ANALYSIS
QLast Update : Fri Jul 29 07:31:03 2016
Response via : Initial Calibration







TIC: BH249.D\data.ms

(125) Aramite (TM)

10.877min (+0.002) 121.51 ppm

response 79370

Ion	Exp%	Act%
185.00	100	100
191.10	48.70	43.00
319.00	15.90	16.04
0.00	0.00	0.00

Manual Integration:

Before

07/29/16

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\5973D\Data\072816\
Data File : BH249.D
Acq On : 28 Jul 2016 5:28 pm
Operator : J.Misiurewicz
Sample : 120 ppm STD Inst : 5973D
Misc : Initial Calibration 8270D/625
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jul 29 07:55:00 2016
Quant Method : I:\ACQUDATA\5973D\Methods\8270072816.M
Quant Title : 8270 BNA ANALYSIS
QLast Update : Fri Jul 29 07:31:03 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) d4-1,4-Dichlorobenzene	4.790	152	75103	40.00	ppm	0.00
33) d8-Naphthalene	5.951	136	344850	40.00	ppm	0.00
57) d10-Acenaphthene	7.657	164	195769	40.00	ppm	0.00
91) d10-Phenanthrene	9.122	188	324494	40.00	ppm	0.00
117) d12-Chrysene	12.390	240	299722	40.00	ppm	0.00
135) d12-Perylene	15.311	264	286304	40.00	ppm	0.00
System Monitoring Compounds						
7) SURR1,2-FLUOROPHENOL	3.720	112	349855	123.99	ppm	0.00
Spiked Amount 200.000	Range 10 - 105		Recovery = 61.99%			
12) SURR2,PHENOL-D6	4.464	99	409726	125.13	ppm	0.00
Spiked Amount 200.000	Range 10 - 107		Recovery = 62.56%			
34) SURR4,NITROBENZENE-D5	5.287	82	345230	126.69	ppm	0.00
Spiked Amount 100.000	Range 31 - 110		Recovery = 126.69%#			
63) SURR5,2-FLUOROBIPHENYL	6.988	172	748179	119.35	ppm	0.00
Spiked Amount 100.000	Range 31 - 118		Recovery = 119.35%#			
88) SURR3,2,4,6-TRIBROMOPH...	8.438	330	96020	128.66	ppm	0.00
Spiked Amount 200.000	Range 35 - 141		Recovery = 64.33%			
124) SURR6,TERPHENYL-D14	10.807	244	759554	123.31	ppm	0.00
Spiked Amount 100.000	Range 30 - 133		Recovery = 123.31%			
Target Compounds						Qvalue
2) Pyridine	2.731	79	355120	119.12	ppm	98
3) N-Nitrosodimethylamine	2.699	74	213575	124.38	ppm	99
4) 2-Picoline	3.282	93	365674	123.16	ppm	99
5) N-Nitrosomethylamine	3.357	42	173751	112.67	ppm	93
6) Methyl Methansulfonate	3.587	80	167618	121.58	ppm	97
8) N-Nitrosodiethylamine	3.897	102	151514	129.28	ppm	98
9) Ethyl Mathanesulfonate	4.132	79	267377	121.13	ppm	98
10) Benzaldehyde	4.421	106	207060	116.16	ppm	98
11) Aniline	4.507	93	585823	123.27	ppm	100
13) Phenol	4.474	94	411621	124.26	ppm	95
14) bis(2-Clethyl)Ether	4.549	93	312528	121.91	ppm	99
15) Pentachloroethane	4.549	117	112579	121.15	ppm	96
16) 2-Chlorophenol	4.614	128	337314	126.30	ppm	97
17) 1,3-Diclbenzene	4.742	146	356827	122.19	ppm	99
18) 1,4-Dichlorobenzene	4.806	146	372026	122.85	ppm	97
19) 1,2-Diclbenzene	4.940	146	354007	122.28	ppm	98
20) Benzyl Alcohol	4.902	79	256163	129.84	ppm	97
21) 1-Methyl-2-pyrrolidinone	4.961	99	247217	124.14	ppm	96
22) 2,2'-oxybis(1-Chloropr...	5.015	45	437018	120.68	ppm	98
23) 2-Methylphenol	5.015	108	304979	122.12	ppm	95
24) 3+4-Methylphenol	5.148	108	329326	125.18	ppm	88
25) Acetophenone	5.143	105	523825	122.75	ppm	97
26) N-Nitroso-Di-n-propyla...	5.143	70	277668	123.26	ppm	94
27) N-Nitrosopyrrolidine	5.143	100	199840	125.54	ppm #	59
28) N-Nitrosomorpholine	5.170	56	209606	119.17	ppm	96
29) o-Toluidine	5.175	106	552782	124.11	ppm	84
30) Hexachloroethane	5.239	117	152233	125.98	ppm	96
31) o,o,o-Triethylphosphor...	5.678	198	162513	121.99	ppm	94
32) Alpha-terpinol	5.972	121	137190	126.98	ppm	99
35) Nitrobenzene	5.304	77	329396	122.06	ppm	88
36) N-Nitrosopiperidine	5.443	42	220660	117.69	ppm	96
37) Isophorone	5.517	82	638188	119.36	ppm	99
38) 2-Nitrophenol	5.592	139	169490	138.21	ppm	96

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\5973D\Data\072816\
Data File : BH249.D
Acq On : 28 Jul 2016 5:28 pm
Operator : J.Misiurewicz
Sample : 120 ppm STD Inst : 5973D
Misc : Initial Calibration 8270D/625
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jul 29 07:55:00 2016
Quant Method : I:\ACQUDATA\5973D\Methods\8270072816.M
Quant Title : 8270 BNA ANALYSIS
QLast Update : Fri Jul 29 07:31:03 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
39) Benzoic Acid	5.747	105	158163	139.39 ppm		89
40) 2,4-Dimethylphenol	5.630	107	334210	121.69 ppm		99
41) bis(-2-Chloroethoxy)Me...	5.710	93	402414	118.43 ppm		96
42) 2,4-Dichlorophenol	5.828	162	274341	125.57 ppm		99
43) a,a-Dimethylphenethyla...	5.977	58	945555	125.19 ppm		94
44) 1,2,4-Trichlorobenzene	5.892	180	307688	120.45 ppm		97
45) Naphthalene	5.972	128	987176	115.67 ppm		99
46) 4-Chloroaniline	6.026	127	449739	123.60 ppm		99
47) 2,6-Dichlorophenol	6.031	162	278034	121.66 ppm		94
48) Hexachlorobutadiene	6.079	225	166730	119.62 ppm		100
49) Hexachloropropene	6.052	213	206312	124.25 ppm		99
50) 4-Chloro-3-methylphenol	6.496	107	291725	125.79 ppm		96
51) N-N-di-n-butylamine	6.336	84	246652	110.11 ppm		97
52) Caprolactam	6.389	113	117364	120.08 ppm		97
53) p-Phenylenediamine	6.379	80	33866	102.28 ppm		96
54) Safrole	6.544	162	246886	120.17 ppm		97
55) 2-Methylnaphthalene	6.635	142	655584	120.62 ppm		99
56) 1-Methylnaphthalene	6.732	142	622326	120.78 ppm		99
58) Hexachlorocyclopentadiene	6.785	237	142879	119.63 ppm		95
59) 1,2,4,5-Tetrachloroben...	6.796	216	292781	120.13 ppm		99
60) 1,2,3,4-Tetrachloroben...	7.074	216	315128	121.83 ppm		98
61) 2,4,6-Trichlorophenol	6.913	196	197183	126.16 ppm		97
62) 2,4,5-Trichlorophenol	6.962	196	201240	127.97 ppm		100
64) Isosafrole	7.053	104	136970	119.69 ppm		98
65) 1,1'-Biphenyl	7.090	154	884698	121.40 ppm		98
66) 2-Chloronaphthalene	7.111	162	664813	120.17 ppm		99
67) 2-Nitroaniline	7.218	65	188841	131.03 ppm		88
68) 1,4-Naphthoquinone	7.293	158	125868	114.37 ppm		94
69) m-Dinitrobenzene	7.432	168	107555	122.38 ppm		91
70) Acenaphthylene	7.518	152	1024861	120.99 ppm		100
71) Dimethyl phthalate	7.395	163	688438	120.53 ppm		99
72) 2,6-Dinitrotoluene	7.454	165	149765	132.95 ppm		91
73) Acenaphthene	7.689	153	668674	119.53 ppm		98
74) 3-Nitroaniline	7.625	138	198725	133.21 ppm		96
75) 2,4-Dinitrophenol	7.737	184	48358	121.34 ppm		92
76) Dibenzofuran	7.860	168	889377	118.24 ppm		97
77) 2,4-Dinitrotoluene	7.855	165	198191	121.67 ppm		97
78) 4-Nitrophenol	7.812	65	114315	130.29 ppm		92
79) Pentachlorobenzene	7.817	250	255729	120.82 ppm		99
80) 1-Napthylamine	7.940	143	640195	114.99 ppm		97
81) 2-Napthylamine	8.021	143	693173	117.47 ppm		99
82) 2,3,4,6-Tetrachlorophenol	7.983	232	146104	132.53 ppm		93
83) Fluorene	8.197	166	731490	118.30 ppm		98
84) 4-Chlorophenyl-phenyle...	8.192	204	339770	120.78 ppm		98
85) Diethylphthalate	8.079	149	712819	119.45 ppm		100
86) 4-Nitroaniline	8.235	138	215022	133.52 ppm		98
87) 5-Nitro-o-toluidine	8.219	152	221750	134.28 ppm		94
89) Sulfotepp	8.459	322	98860	127.41 ppm		89
90) Octachlorocyclopentene	8.438	307	106873	132.16 ppm		99
92) Thionazin	8.165	107	135733	117.09 ppm		99
93) 4,6-Dinitro-2-methylph...	8.256	198	87866	120.80 ppm		96
94) Diphenylamine	8.315	169	1241890	232.98 ppm		98
95) 1,2 Diphenylhydrazine	8.352	77	797675	116.01 ppm		94
96) N-Nitrosodiphenylamine	8.315	169	1241890	232.98 ppm		98
97) 1,3,5-Trinirobenzene	8.609	213	43668	121.36 ppm	#	1
98) Diallate	8.588	86	302512	115.38 ppm		96

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\5973D\Data\072816\
Data File : BH249.D
Acq On : 28 Jul 2016 5:28 pm
Operator : J.Misiurewicz
Sample : 120 ppm STD Inst : 5973D
Misc : Initial Calibration 8270D/625
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jul 29 07:55:00 2016
Quant Method : I:\ACQUDATA\5973D\Methods\8270072816.M
Quant Title : 8270 BNA ANALYSIS
QLast Update : Fri Jul 29 07:31:03 2016
Response via : Initial Calibration

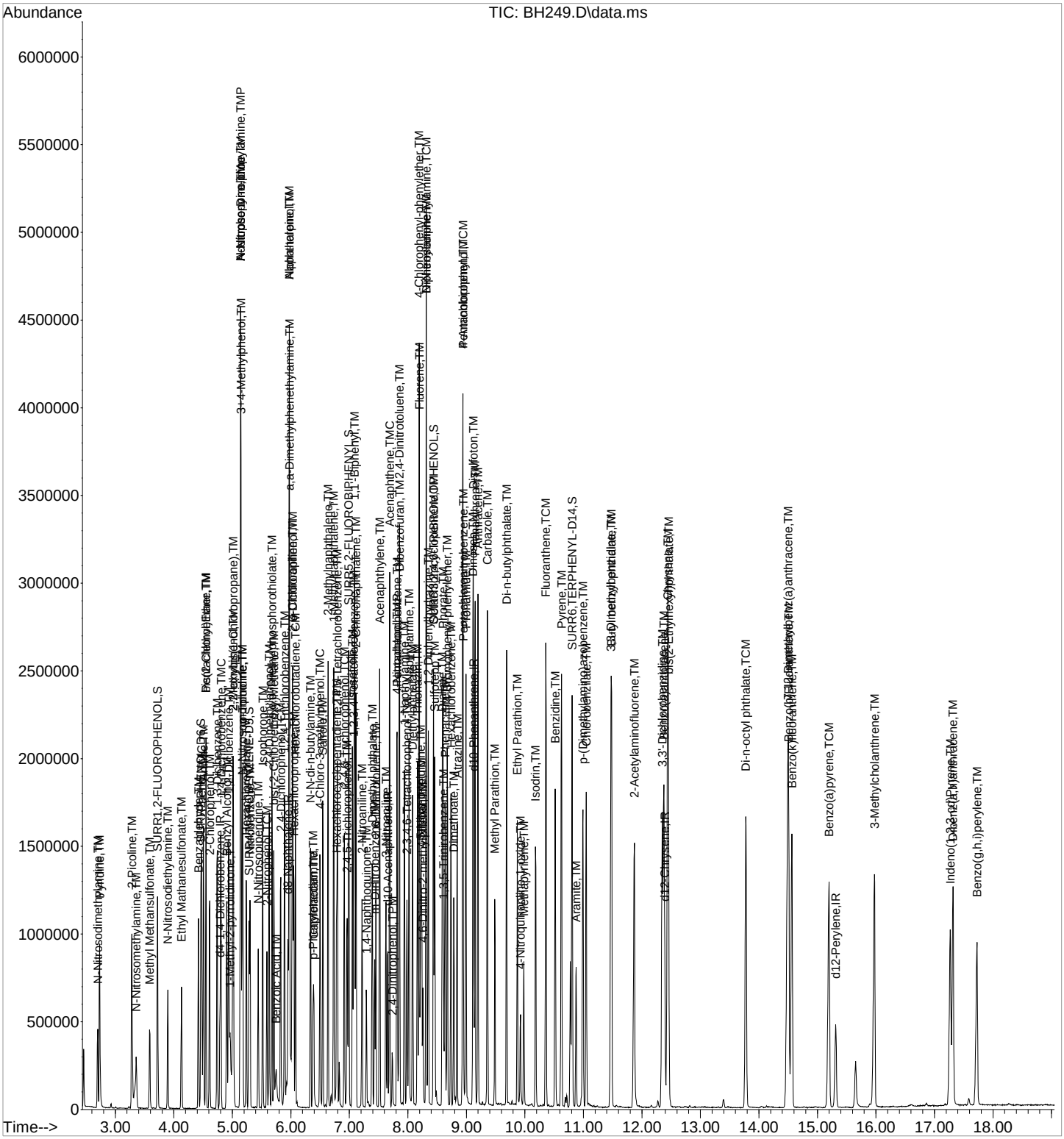
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
99) Phorate	8.598	121	153960	119.75 ppm	94
100) Phenacetin	8.636	108	417587	121.29 ppm	95
101) 4-Bromophenyl-phenylether	8.673	248	191084	118.47 ppm	96
102) Hexachlorobenzene	8.737	284	215653	117.80 ppm	88
103) Dimethoate	8.785	87	241381	106.47 ppm	97
104) Atrazine	8.844	215	93596	124.59 ppm	99
105) Pentachlorophenol	8.941	266	103189	134.84 ppm	99
106) 4-Aminobiphenyl	8.941	169	781326	122.79 ppm	99
107) Pentachloronitrobenzene	8.946	237	85528	134.91 ppm	98
108) Pronamide	8.994	173	370037	125.82 ppm	98
109) Dinoseb	9.112	211	111537	128.82 ppm	97
110) Disulfoton	9.117	88	381750	113.72 ppm	100
111) Phenanthrene	9.149	178	1018461	118.64 ppm	99
112) Anthracene	9.197	178	1035988	120.40 ppm	99
113) Carbazole	9.358	167	1099908	120.54 ppm	99
114) Di-n-butylphthalate	9.689	149	1277669	124.11 ppm	100
115) 4-Nitroquinonline-1-oxide	9.925	190	54482	128.49 ppm	90
116) Fluoranthene	10.358	202	1116180	122.01 ppm	97
118) Methyl Parathion	9.486	109	182015	127.71 ppm	98
119) Ethyl Parathion	9.871	97	151405	119.19 ppm	92
120) Methapyrilene	9.984	58	228618	95.52 ppm	96
121) Isodrin	10.181	193	108816	126.19 ppm	96
122) Benzidine	10.518	184	739583	120.02 ppm	98
123) Pyrene	10.625	202	1149823	121.53 ppm	100
125) Aramite	10.877	185	144992m	221.97 ppm	
126) p-(Dimethylamino)azobe...	10.994	120	358620	126.13 ppm	93
127) Chlorobenzilate	11.048	139	391711	121.69 ppm	89
128) Butyl benzyl phthalate	11.481	149	583493	122.09 ppm	100
129) 3,3-Dimethylbenzidine	11.470	212	748998	122.06 ppm	98
130) 2-Acetylaminofluorene	11.872	181	525317	129.16 ppm	96
131) 3,3'-Dichlorobenzidine	12.348	252	422330	126.00 ppm	98
132) Benzo(a)anthracene	12.374	228	1030553	120.87 ppm	100
133) Chrysene	12.439	228	974434	119.55 ppm	98
134) bis(2-Ethylhexyl)phtha...	12.455	149	850516	124.84 ppm	99
136) Di-n-octyl phthalate	13.776	149	1432192	127.39 ppm	98
137) 7,12-Dimethylbenz(a)an...	14.498	256	521414	126.11 ppm	94
138) Benzo(b)Fluoranthene	14.509	252	1033582	125.23 ppm	96
139) Benzo(k)fluoranthene	14.562	252	953433	124.08 ppm	99
140) Benzo(a)pyrene	15.198	252	897774	126.64 ppm	100
141) 3-Methylcholanthrene	15.974	268	532108	127.54 ppm	95
142) Indeno(1,2,3-cd)Pyrene	17.268	276	668809	119.41 ppm	98
143) Dibenz(a,h)anthracene	17.317	278	776652	121.33 ppm	99
144) Benzo(g,h,i)perylene	17.728	276	621144	110.63 ppm	98

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

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\5973D\Data\072816\
Data File : BH249.D
Acq On : 28 Jul 2016 5:28 pm
Operator : J.Misiurewicz
Sample : 120 ppm STD Inst : 5973D
Misc : Initial Calibration 8270D/625
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jul 29 07:55:00 2016
Quant Method : I:\ACQUDATA\5973D\Methods\8270072816.M
Quant Title : 8270 BNA ANALYSIS
QLast Update : Fri Jul 29 07:31:03 2016
Response via : Initial Calibration

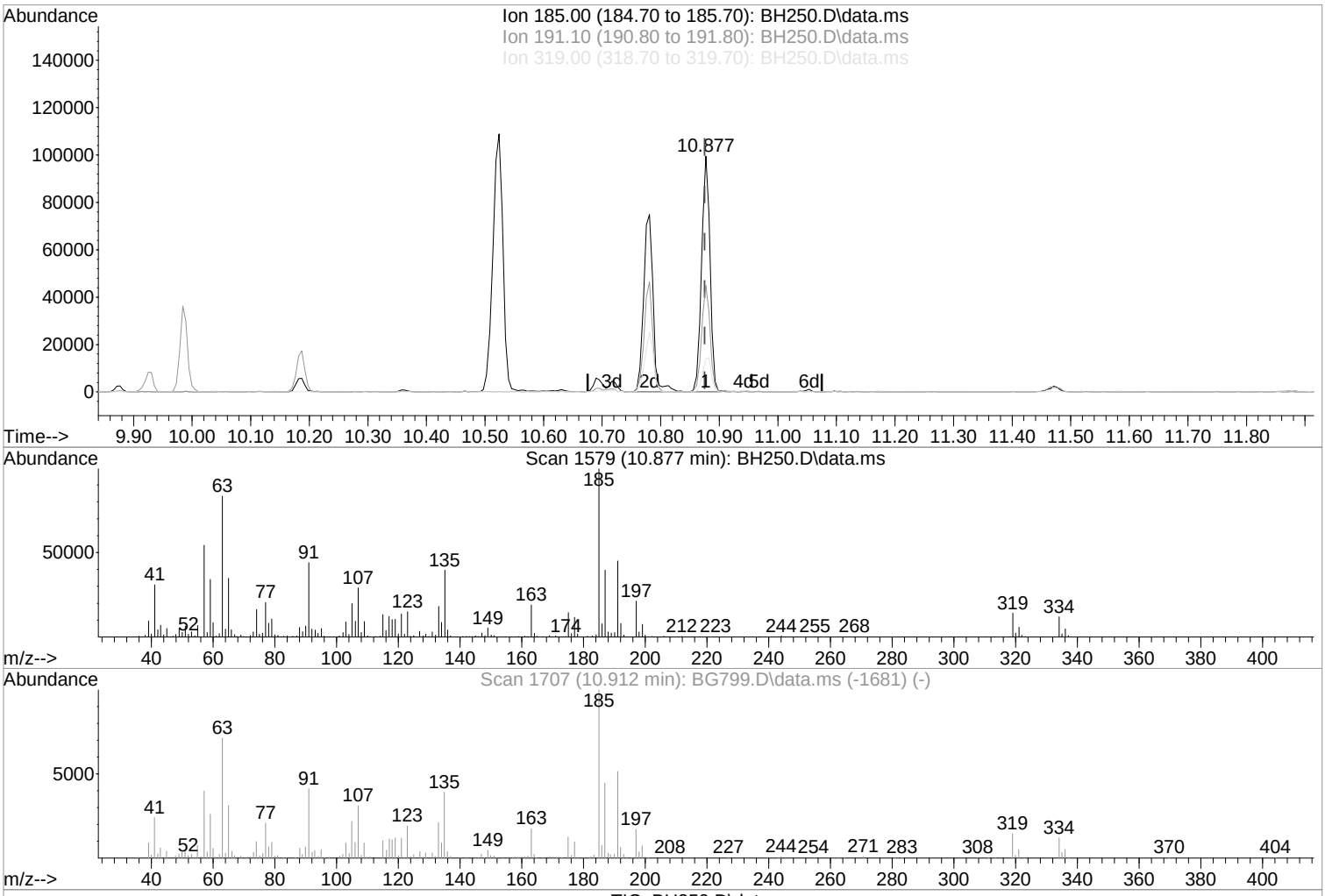


1st DM 07/29/16
2nd MW 07/29/16

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\5973D\Data\072816\
Data File : BH250.D
Acq On : 28 Jul 2016 5:55 pm
Operator : J.Misiurewicz
Sample : 160 ppm STD Inst : 5973D
Misc : Initial Calibration 8270D/625
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jul 29 07:55:37 2016
Quant Method : I:\ACQUDATA\5973D\Methods\8270072816.M
Quant Title : 8270 BNA ANALYSIS
QLast Update : Fri Jul 29 07:31:03 2016
Response via : Initial Calibration



TIC: BH250.D\data.ms

(125) Aramite (TM)

10.877min (+0.002) 297.06 ppm m

response 185894

Ion	Exp%	Act%
185.00	100	100
191.10	48.70	45.14
319.00	15.90	14.19
0.00	0.00	0.00

Manual Integration:

After

Split Peak

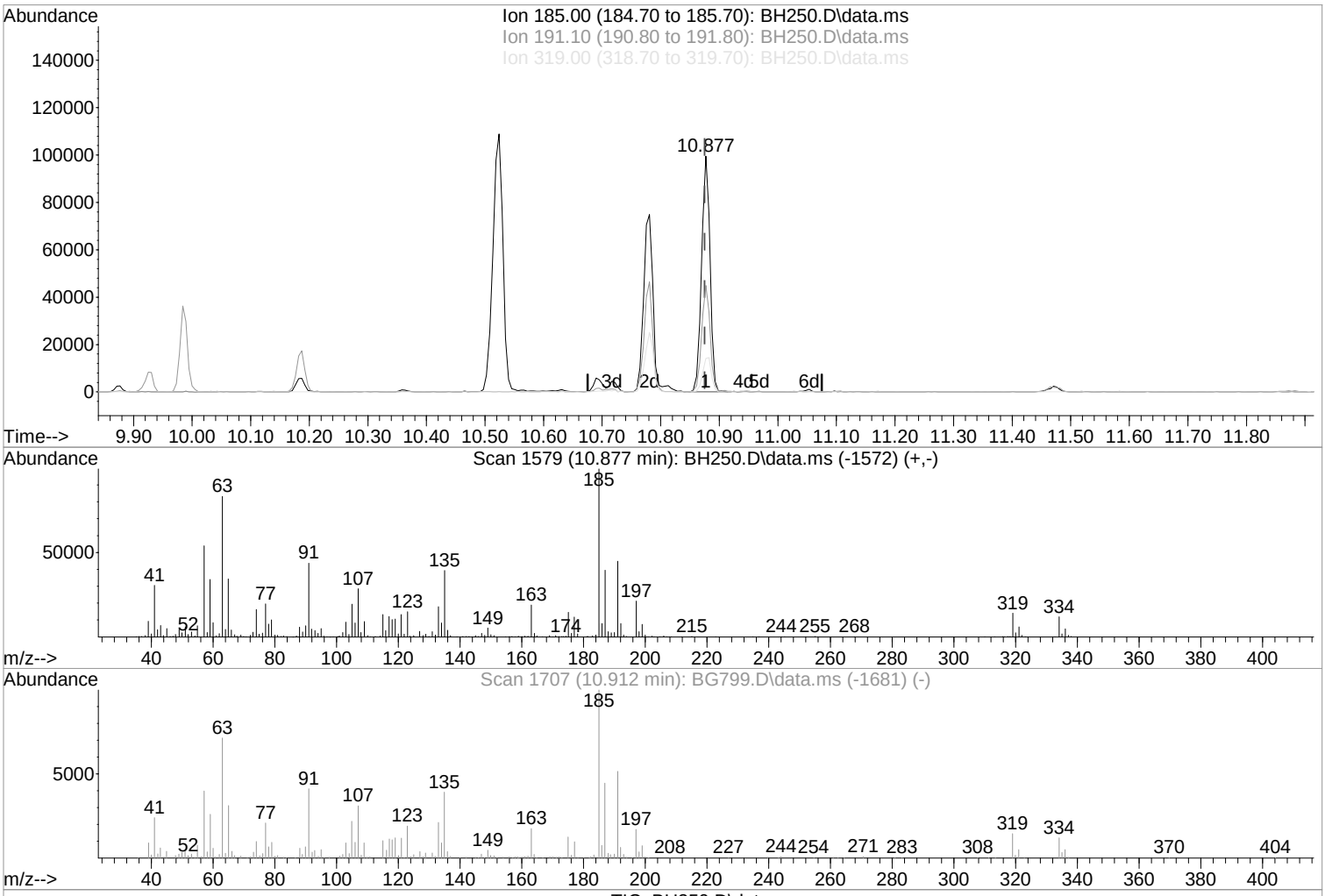
07/29/16

1st DM 07/29/16
2nd MW 07/29/16

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\5973D\Data\072816\
Data File : BH250.D
Acq On : 28 Jul 2016 5:55 pm
Operator : J.Misiurewicz
Sample : 160 ppm STD Inst : 5973D
Misc : Initial Calibration 8270D/625
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jul 29 07:55:37 2016
Quant Method : I:\ACQUDATA\5973D\Methods\8270072816.M
Quant Title : 8270 BNA ANALYSIS
QLast Update : Fri Jul 29 07:31:03 2016
Response via : Initial Calibration



(125) Aramite (TM)

10.877min (+0.002) 160.77 ppm

response 100603

Ion	Exp%	Act%
185.00	100	100
191.10	48.70	44.98
319.00	15.90	14.19
0.00	0.00	0.00

Manual Integration:

Before

07/29/16

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\5973D\Data\072816\
Data File : BH250.D
Acq On : 28 Jul 2016 5:55 pm
Operator : J.Misiurewicz
Sample : 160 ppm STD Inst : 5973D
Misc : Initial Calibration 8270D/625
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jul 29 07:56:41 2016
Quant Method : I:\ACQUDATA\5973D\Methods\8270072816.M
Quant Title : 8270 BNA ANALYSIS
QLast Update : Fri Jul 29 07:31:03 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) d4-1,4-Dichlorobenzene	4.790	152	77127	40.00	ppm	0.00
33) d8-Naphthalene	5.951	136	341289	40.00	ppm	0.00
57) d10-Acenaphthene	7.657	164	191842	40.00	ppm	0.00
91) d10-Phenanthrene	9.123	188	324716	40.00	ppm	0.00
117) d12-Chrysene	12.396	240	287134	40.00	ppm	0.00
135) d12-Perylene	15.316	264	272511	40.00	ppm	0.00
System Monitoring Compounds						
7) SURR1,2-FLUOROPHENOL	3.721	112	479802	165.58	ppm	0.00
Spiked Amount 200.000	Range 10 - 105		Recovery = 82.79%			
12) SURR2,PHENOL-D6	4.464	99	567318	168.72	ppm	0.00
Spiked Amount 200.000	Range 10 - 107		Recovery = 84.36%			
34) SURR4,NITROBENZENE-D5	5.288	82	475602	176.36	ppm	0.00
Spiked Amount 100.000	Range 31 - 110		Recovery = 176.36%#			
63) SURR5,2-FLUOROBIPHENYL	6.994	172	992381	161.55	ppm	0.00
Spiked Amount 100.000	Range 31 - 118		Recovery = 161.55%#			
88) SURR3,2,4,6-TRIBROMOPH...	8.438	330	134265	183.58	ppm	0.00
Spiked Amount 200.000	Range 35 - 141		Recovery = 91.79%			
124) SURR6,TERPHENYL-D14	10.807	244	988532	167.53	ppm	0.00
Spiked Amount 100.000	Range 30 - 133		Recovery = 167.53%#			
Target Compounds						Qvalue
2) Pyridine	2.731	79	483645	157.98	ppm	99
3) N-Nitrosodimethylamine	2.699	74	285648	161.99	ppm	99
4) 2-Picoline	3.282	93	488609	160.24	ppm	99
5) N-Nitrosomethylamine	3.357	42	223553	141.16	ppm	96
6) Methyl Methansulfonate	3.592	80	226327	159.86	ppm	94
8) N-Nitrosodiethylamine	3.897	102	196594	163.34	ppm	95
9) Ethyl Mathanesulfonate	4.132	79	362107	159.74	ppm	98
11) Aniline	4.507	93	812145	166.41	ppm	99
13) Phenol	4.480	94	554522	163.01	ppm	87
14) bis(2-Clethyl)Ether	4.550	93	422528	160.50	ppm	99
15) Pentachloroethane	4.550	117	153501	160.85	ppm	95
16) 2-Chlorophenol	4.614	128	447965	163.33	ppm	95
17) 1,3-Diclbenzene	4.742	146	483980	161.39	ppm	98
18) 1,4-Dichlorobenzene	4.806	146	489135	157.28	ppm	98
19) 1,2-Diclbenzene	4.940	146	472270	158.85	ppm	98
20) Benzyl Alcohol	4.908	79	336536	166.10	ppm	98
21) 1-Methyl-2-pyrrolidinone	4.972	99	329392	161.06	ppm	97
22) 2,2'-oxybis(1-Chloropr...	5.015	45	589712	158.57	ppm	92
23) 2-Methylphenol	5.020	108	417286	162.71	ppm	93
24) 3+4-Methylphenol	5.154	108	486761	180.16	ppm	99
25) Acetophenone	5.149	105	709240	161.83	ppm	99
26) N-Nitroso-Di-n-propyla...	5.149	70	376573	162.78	ppm	94
27) N-Nitrosopyrrolidine	5.149	100	273427	167.26	ppm #	63
28) N-Nitrosomorpholine	5.175	56	283103	156.74	ppm	94
29) o-Toluidine	5.181	106	744813	162.84	ppm	83
30) Hexachloroethane	5.240	117	201647	162.50	ppm	94
31) o,o,o-Triethylphosphor...	5.684	198	215949	157.84	ppm	94
32) Alpha-terpinol	5.978	121	180650	162.82	ppm	93
35) Nitrobenzene	5.304	77	451057	168.89	ppm	92
36) N-Nitrosopiperidine	5.448	42	296840	159.97	ppm	92
37) Isophorone	5.523	82	846196	159.92	ppm	98
38) 2-Nitrophenol	5.593	139	233264	192.19	ppm	95
39) Benzoic Acid	5.758	105	176637	157.29	ppm	89

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\5973D\Data\072816\
Data File : BH250.D
Acq On : 28 Jul 2016 5:55 pm
Operator : J.Misiurewicz
Sample : 160 ppm STD Inst : 5973D
Misc : Initial Calibration 8270D/625
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jul 29 07:56:41 2016
Quant Method : I:\ACQUDATA\5973D\Methods\8270072816.M
Quant Title : 8270 BNA ANALYSIS
QLast Update : Fri Jul 29 07:31:03 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
40) 2,4-Dimethylphenol	5.635	107	437266	160.88	ppm		99
41) bis(-2-Chloroethoxy)Me...	5.716	93	546227	162.43	ppm		98
42) 2,4-Dichlorophenol	5.828	162	360213	166.60	ppm		97
43) a,a-Dimethylphenethyla...	6.031	58	1308808	175.10	ppm		94
44) 1,2,4-Trichlorobenzene	5.897	180	407363	161.13	ppm		96
45) Naphthalene	5.972	128	1314321	155.61	ppm		99
46) 4-Chloroaniline	6.031	127	583586	162.06	ppm		99
47) 2,6-Dichlorophenol	6.037	162	364618	161.21	ppm		98
48) Hexachlorobutadiene	6.079	225	222285	161.15	ppm		98
49) Hexachloropropene	6.053	213	273983	166.73	ppm		96
50) 4-Chloro-3-methylphenol	6.502	107	388067	169.07	ppm		95
51) N-N-di-n-butylamine	6.341	84	322391	145.42	ppm		95
52) Caprolactam	6.406	113	156416	161.70	ppm		98
53) p-Phenylenediamine	6.384	80	39533	120.64	ppm		97
54) Safrole	6.550	162	329405	162.01	ppm		95
55) 2-Methylnaphthalene	6.636	142	877996	163.23	ppm		98
56) 1-Methylnaphthalene	6.737	142	820698	160.94	ppm		99
58) Hexachlorocyclopentadiene	6.785	237	199397	156.40	ppm		98
59) 1,2,4,5-Tetrachloroben...	6.801	216	395350	165.54	ppm		96
60) 1,2,3,4-Tetrachloroben...	7.080	216	418015	164.91	ppm		98
61) 2,4,6-Trichlorophenol	6.919	196	266593	174.05	ppm		97
62) 2,4,5-Trichlorophenol	6.962	196	265926	172.56	ppm		96
64) Isosafrole	7.053	104	182239	162.50	ppm		97
65) 1,1'-Biphenyl	7.096	154	1157204	162.04	ppm		99
66) 2-Chloronaphthalene	7.117	162	865862	159.72	ppm		97
67) 2-Nitroaniline	7.219	65	258406	182.97	ppm		93
68) 1,4-Naphthoquinone	7.293	158	159068	147.50	ppm		95
69) m-Dinitrobenzene	7.438	168	151372	158.67	ppm	#	75
70) Acenaphthylene	7.523	152	1334204	160.74	ppm		100
71) Dimethyl phthalate	7.395	163	908151	162.25	ppm		99
72) 2,6-Dinitrotoluene	7.459	165	204904	185.62	ppm		97
73) Acenaphthene	7.689	153	884145	161.28	ppm		97
74) 3-Nitroaniline	7.630	138	276598	189.20	ppm		97
75) 2,4-Dinitrophenol	7.737	184	70867	159.22	ppm		87
76) Dibenzofuran	7.860	168	1166679	158.28	ppm		97
77) 2,4-Dinitrotoluene	7.860	165	270018	155.92	ppm		97
78) 4-Nitrophenol	7.818	65	151349	176.03	ppm		96
79) Pentachlorobenzene	7.818	250	334083	161.07	ppm		98
80) 1-Napthylamine	7.946	143	860700	157.75	ppm		97
81) 2-Napthylamine	8.026	143	915973	158.40	ppm		100
82) 2,3,4,6-Tetrachlorophenol	7.989	232	200692	185.77	ppm		97
83) Fluorene	8.197	166	954238	157.48	ppm		98
84) 4-Chlorophenyl-phenyle...	8.192	204	437570	158.73	ppm		92
85) Diethylphthalate	8.085	149	955869	163.46	ppm		99
86) 4-Nitroaniline	8.246	138	297280	188.38	ppm		96
87) 5-Nitro-o-toluidine	8.224	152	306823	189.59	ppm		95
89) Sulfotepp	8.465	322	137169	180.41	ppm		98
90) Octachlorocyclopentene	8.443	307	145054	183.05	ppm		97
92) Thionazin	8.171	107	189765	163.59	ppm		99
93) 4,6-Dinitro-2-methylph...	8.262	198	126103	157.04	ppm		95
94) Diphenylamine	8.320	169	1689545	316.74	ppm		98
95) 1,2 Diphenylhydrazine	8.352	77	1060704	154.15	ppm		99
96) N-Nitrosodiphenylamine	8.320	169	1689545	316.74	ppm		98
97) 1,3,5-Trinirobenzene	8.620	213	64765	156.46	ppm	#	1
98) Diallate	8.593	86	412375	157.17	ppm		97
99) Phorate	8.604	121	215016	167.13	ppm		88

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\5973D\Data\072816\
Data File : BH250.D
Acq On : 28 Jul 2016 5:55 pm
Operator : J.Misiurewicz
Sample : 160 ppm STD Inst : 5973D
Misc : Initial Calibration 8270D/625
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jul 29 07:56:41 2016
Quant Method : I:\ACQUDATA\5973D\Methods\8270072816.M
Quant Title : 8270 BNA ANALYSIS
QLast Update : Fri Jul 29 07:31:03 2016
Response via : Initial Calibration

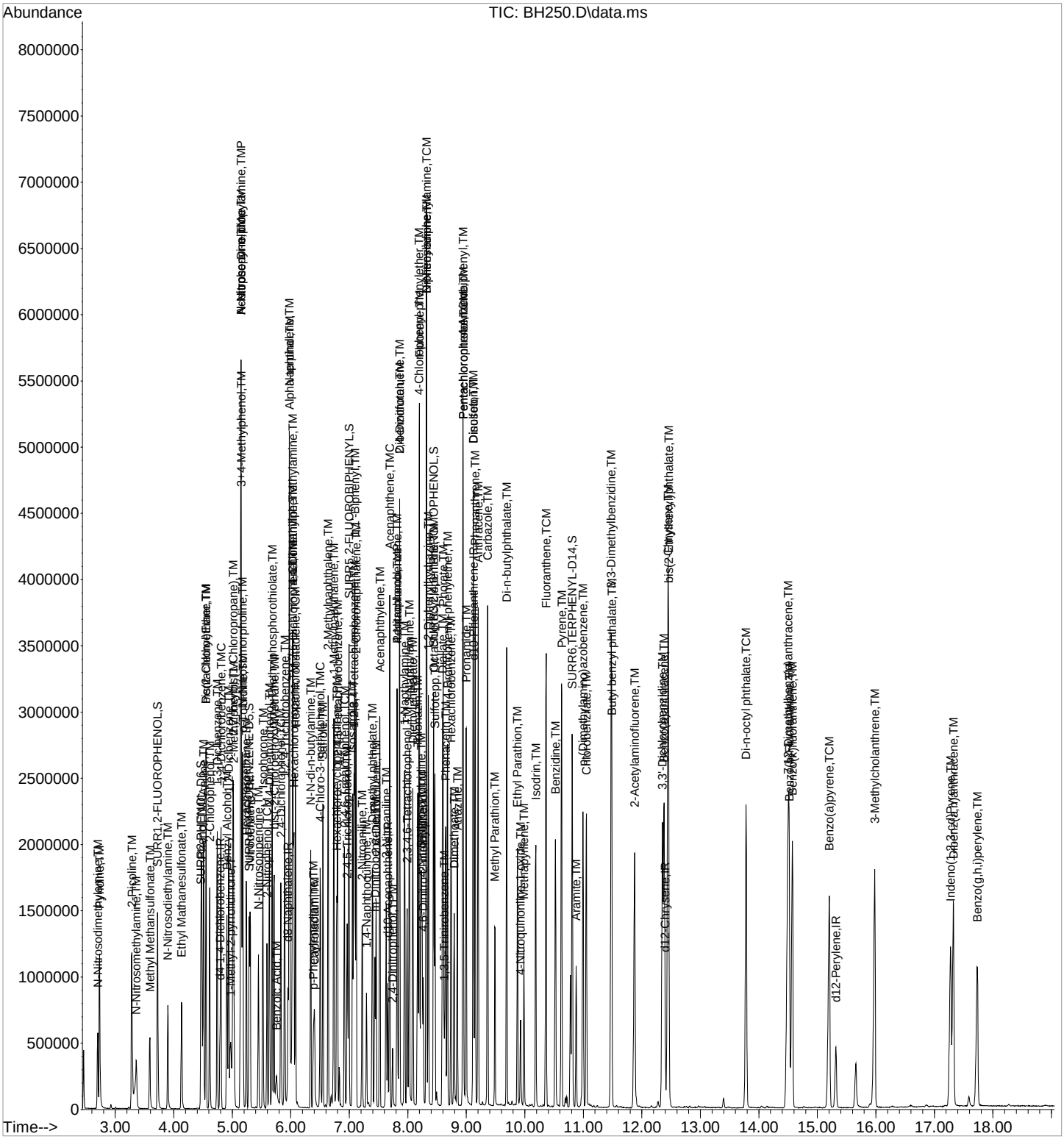
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
100) Phenacetin	8.647	108	546594	158.65 ppm	94
101) 4-Bromophenyl-phenylether	8.679	248	258528	160.17 ppm	96
102) Hexachlorobenzene	8.738	284	292195	159.50 ppm	93
103) Dimethoate	8.791	87	301957	133.10 ppm	98
104) Atrazine	8.850	215	122271	162.65 ppm	95
105) Pentachlorophenol	8.946	266	140486	183.46 ppm	98
106) 4-Aminobiphenyl	8.941	169	1047377	164.49 ppm	99
107) Pentachloronitrobenzene	8.946	237	113761	179.32 ppm	95
108) Pronamide	9.000	173	492791	167.44 ppm	98
109) Dinoseb	9.117	211	163451	188.65 ppm	95
110) Disulfoton	9.117	88	523522	155.85 ppm	97
111) Phenanthrene	9.149	178	1359779	158.29 ppm	98
112) Anthracene	9.203	178	1395411	162.06 ppm	99
113) Carbazole	9.363	167	1461192	160.03 ppm	97
114) Di-n-butylphthalate	9.690	149	1664510	161.57 ppm	99
115) 4-Nitroquinonline-1-oxide	9.925	190	72104	169.94 ppm	92
116) Fluoranthene	10.364	202	1456972	159.15 ppm	99
118) Methyl Parathion	9.486	109	238884	174.95 ppm	95
119) Ethyl Parathion	9.871	97	204947	157.88 ppm	92
120) Methapyrilene	9.984	58	316077	137.85 ppm	97
121) Isodrin	10.187	193	140605	170.20 ppm	90
122) Benzidine	10.524	184	933490	158.12 ppm	98
123) Pyrene	10.631	202	1488916	164.26 ppm	99
125) Aramite	10.877	185	185894m	297.06 ppm	
126) p-(Dimethylamino)azobe...	10.995	120	473385	173.80 ppm	95
127) Chlorobenzilate	11.048	139	521741	169.20 ppm	88
128) Butyl benzyl phthalate	11.487	149	765044	167.09 ppm	97
129) 3,3-Dimethylbenzidine	11.476	212	970497	165.10 ppm	98
130) 2-Acetylaminofluorene	11.877	181	691934	177.59 ppm	97
131) 3,3'-Dichlorobenzidine	12.348	252	549699	171.19 ppm	100
132) Benzo(a)anthracene	12.375	228	1353332	165.69 ppm	99
133) Chrysene	12.444	228	1293136	165.61 ppm	99
134) bis(2-Ethylhexyl)phtha...	12.455	149	1104081	169.17 ppm	99
136) Di-n-octyl phthalate	13.781	149	1885517	176.20 ppm	99
137) 7,12-Dimethylbenz(a)an...	14.498	256	683493	173.68 ppm	99
138) Benzo(b)Fluoranthene	14.519	252	1391110	177.08 ppm	98
139) Benzo(k)fluoranthene	14.573	252	1226569	167.70 ppm	99
140) Benzo(a)pyrene	15.204	252	1164300	172.55 ppm	98
141) 3-Methylcholanthrene	15.980	268	707900	178.26 ppm	99
142) Indeno(1,2,3-cd)Pyrene	17.274	276	860525	161.42 ppm	98
143) Dibenz(a,h)anthracene	17.328	278	993961	163.14 ppm	98
144) Benzo(g,h,i)perylene	17.734	276	772124	144.48 ppm	99

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

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\5973D\Data\072816\
Data File : BH250.D
Acq On : 28 Jul 2016 5:55 pm
Operator : J.Misiurewicz
Sample : 160 ppm STD Inst : 5973D
Misc : Initial Calibration 8270D/625
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jul 29 07:56:41 2016
Quant Method : I:\ACQUDATA\5973D\Methods\8270072816.M
Quant Title : 8270 BNA ANALYSIS
QLast Update : Fri Jul 29 07:31:03 2016
Response via : Initial Calibration

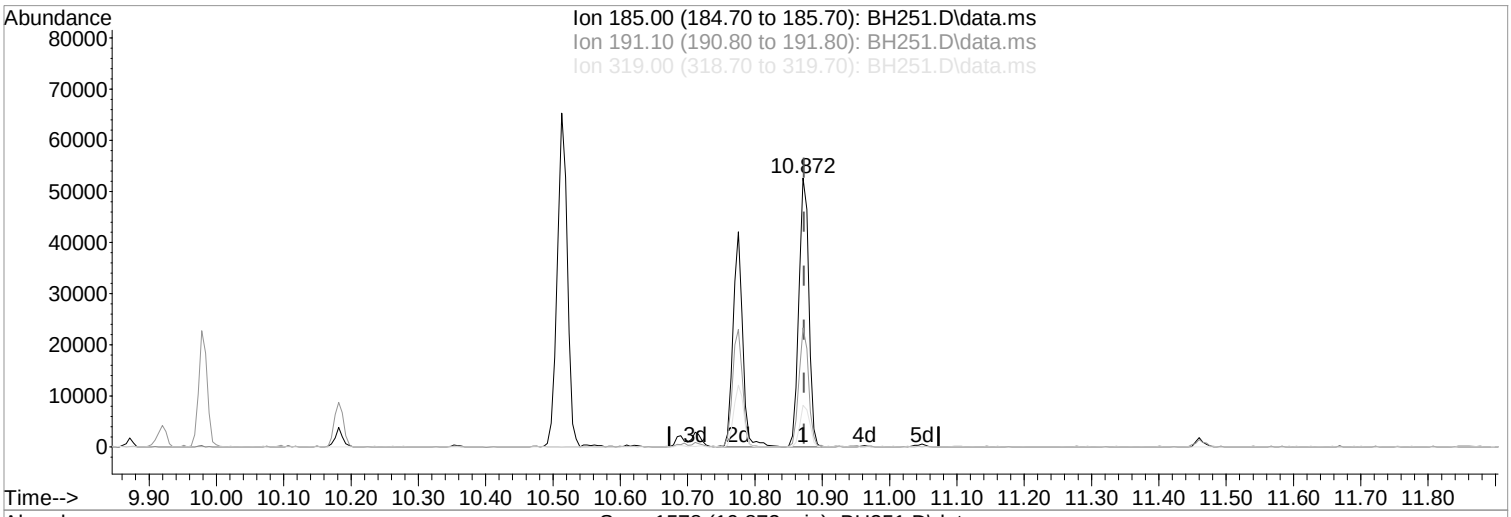


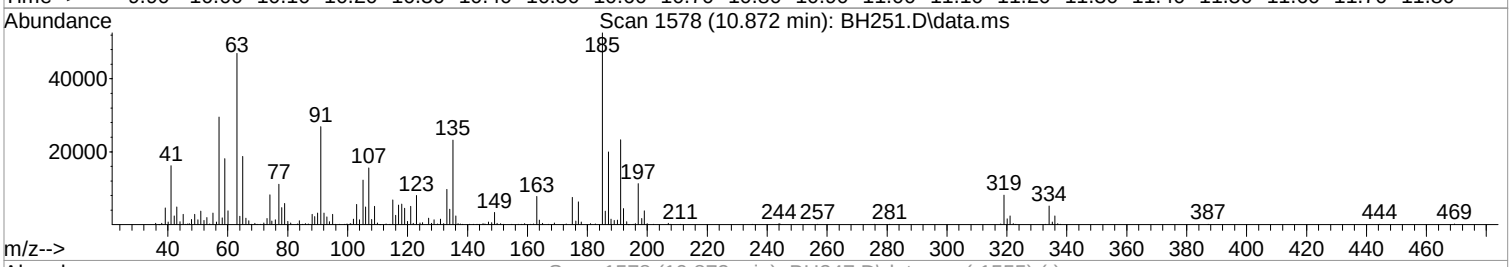
1st DM 07/29/16
2nd MW 07/29/16

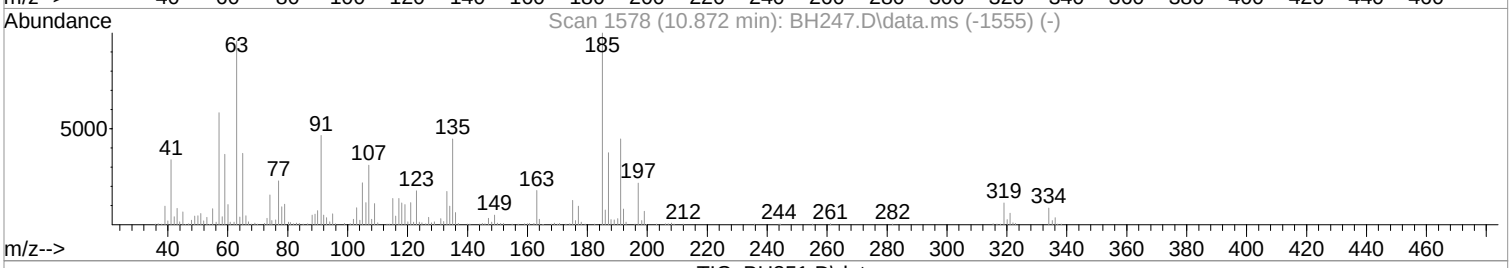
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\5973D\Data\072816\
Data File : BH251.D
Acq On : 28 Jul 2016 6:22 pm
Operator : J.Misiurewicz
Sample : ICV #1 Inst : 5973D
Misc : Initial Calibration 8270D/625
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jul 29 09:29:04 2016
Quant Method : I:\ACQUDATA\5973D\Methods\8270072816.M
Quant Title : 8270 BNA ANALYSIS
QLast Update : Fri Jul 29 08:17:04 2016
Response via : Initial Calibration







TIC: BH251.D\data.ms

(125) Aramite (TM)

10.872min (-0.001) 79.00 ppm m

response 96120

Ion	Exp%	Act%
185.00	100	100
191.10	44.70	44.29
319.00	11.30	15.49
0.00	0.00	0.00

Manual Integration:

After

Split Peak

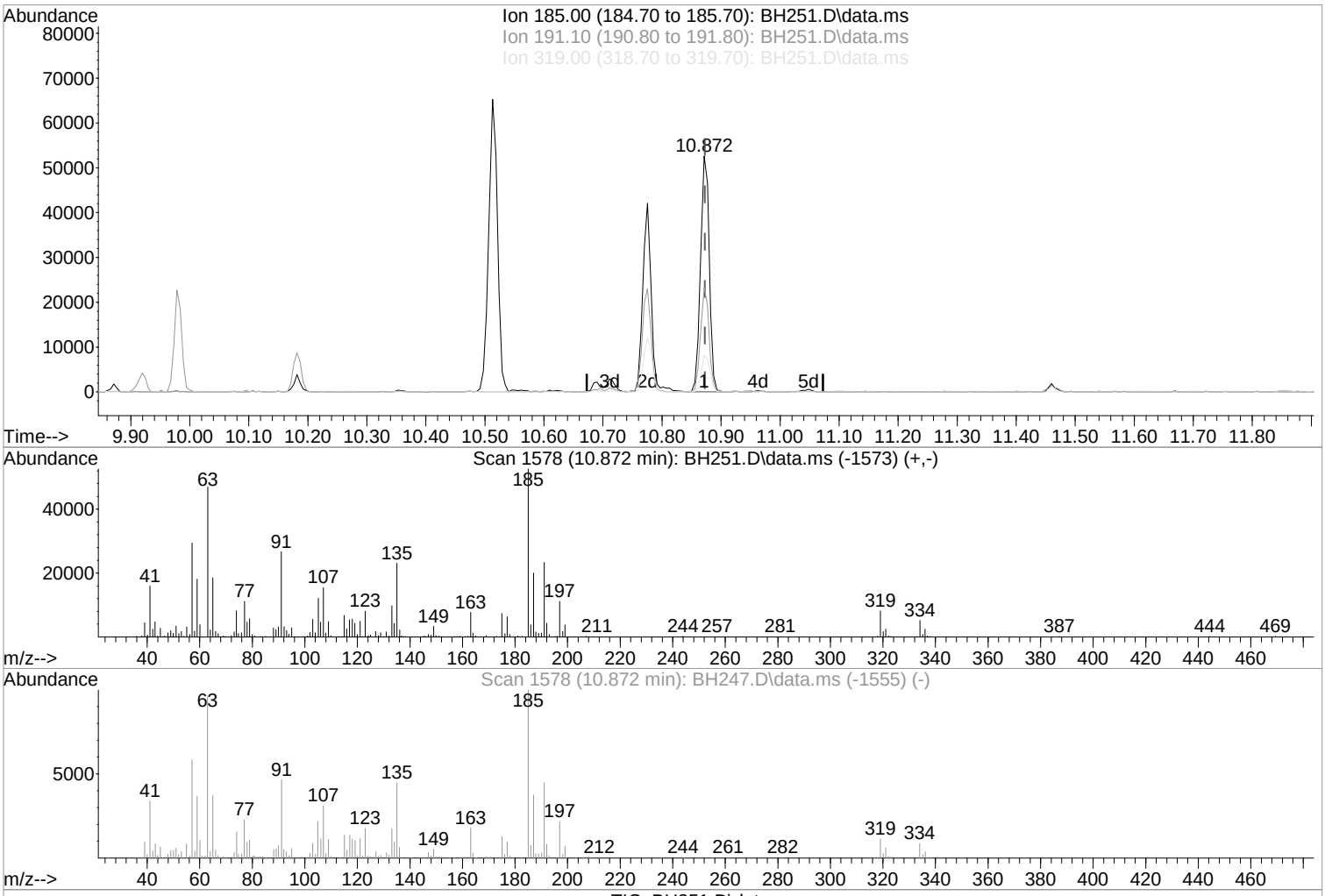
07/29/16

1st DM 07/29/16
2nd MW 07/29/16

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\5973D\Data\072816\
Data File : BH251.D
Acq On : 28 Jul 2016 6:22 pm
Operator : J.Misiurewicz
Sample : ICV #1 Inst : 5973D
Misc : Initial Calibration 8270D/625
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jul 29 09:29:04 2016
Quant Method : I:\ACQUDATA\5973D\Methods\8270072816.M
Quant Title : 8270 BNA ANALYSIS
QLast Update : Fri Jul 29 08:17:04 2016
Response via : Initial Calibration



TIC: BH251.D\data.ms

(125) Aramite (TM)

10.872min (-0.001) 44.31 ppm

response 53915

Ion	Exp%	Act%
185.00	100	100
191.10	44.70	44.29
319.00	11.30	15.49
0.00	0.00	0.00

Manual Integration:

Before

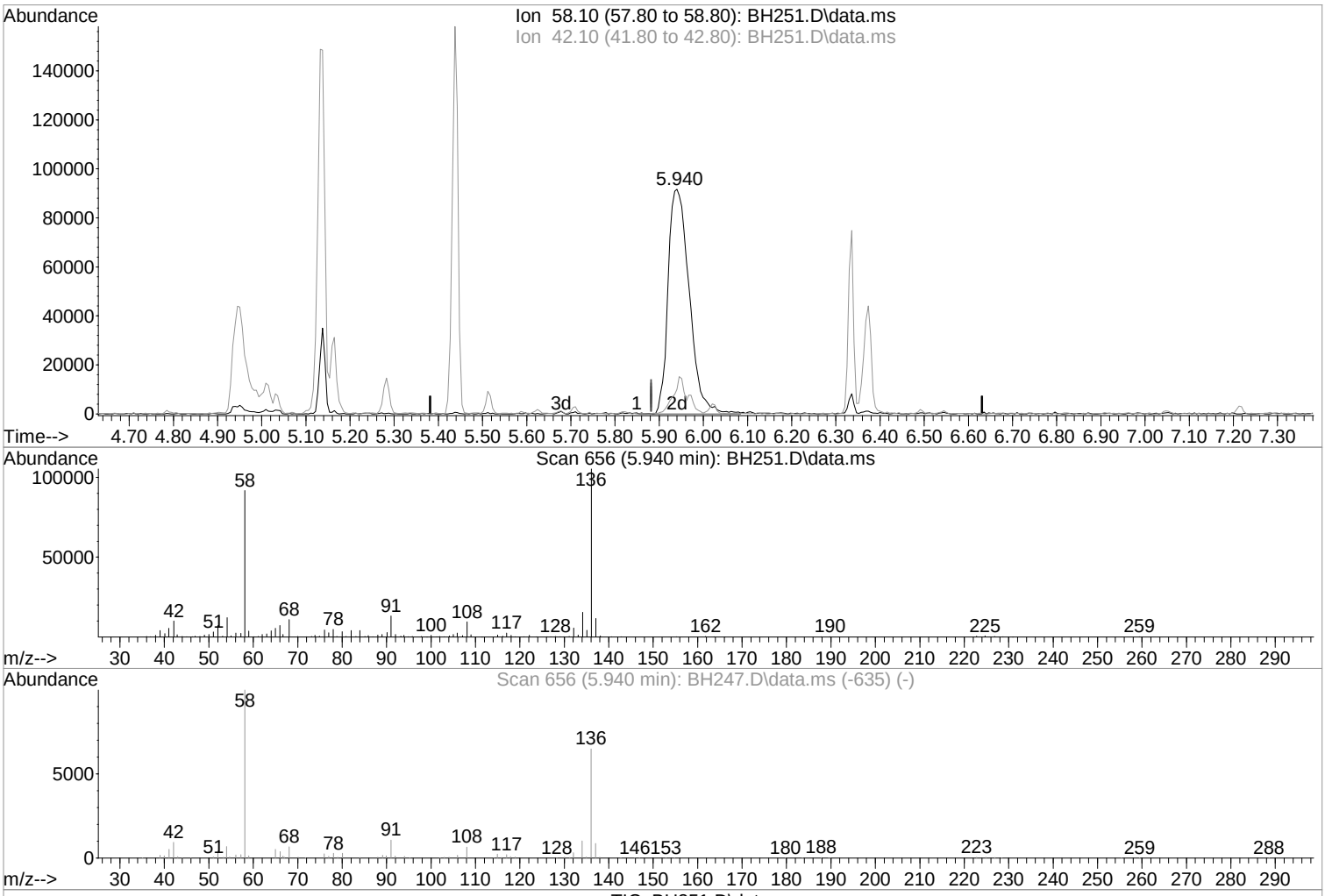
07/29/16

1st DM 07/29/16
2nd MW 07/29/16

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\5973D\Data\072816\
Data File : BH251.D
Acq On : 28 Jul 2016 6:22 pm
Operator : J.Misiurewicz
Sample : ICV #1 Inst : 5973D
Misc : Initial Calibration 8270D/625
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jul 29 09:29:04 2016
Quant Method : I:\ACQUDATA\5973D\Methods\8270072816.M
Quant Title : 8270 BNA ANALYSIS
QLast Update : Fri Jul 29 08:17:04 2016
Response via : Initial Calibration



(43) a,a-Dimethylphenethylamine (TM)

5.940min (+0.059) 39.80 ppm m

response 305061

Ion	Exp%	Act%
58.10	100	100
42.10	9.50	10.96
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

Peak not found.

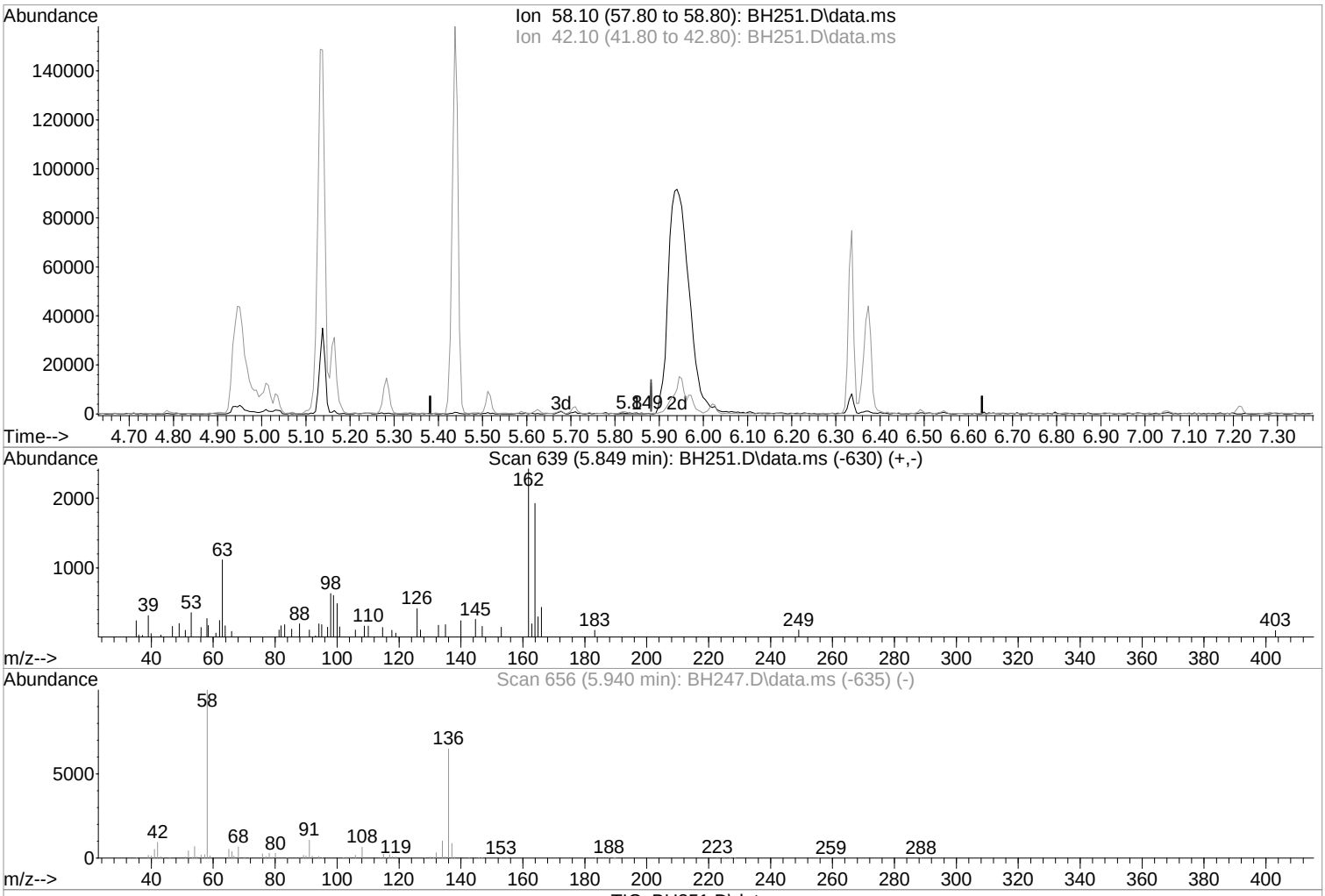
07/29/16

1st DM 07/29/16
2nd MW 07/29/16

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\5973D\Data\072816\
Data File : BH251.D
Acq On : 28 Jul 2016 6:22 pm
Operator : J.Misiurewicz
Sample : ICV #1 Inst : 5973D
Misc : Initial Calibration 8270D/625
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jul 29 09:29:04 2016
Quant Method : I:\ACQUDATA\5973D\Methods\8270072816.M
Quant Title : 8270 BNA ANALYSIS
QLast Update : Fri Jul 29 08:17:04 2016
Response via : Initial Calibration



(43) a,a-Dimethylphenethylamine (TM)

5.849min (-0.032) 0.11 ppm

response 864

Ion	Exp%	Act%
58.10	100	100
42.10	9.50	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

Before

07/29/16

1st DM 07/29/16
2nd MWC 07/29/16

Evaluate Continuing Calibration Report

Data Path : I:\ACQUDATA\5973D\Data\072816\
Data File : BH251.D
Acq On : 28 Jul 2016 6:22 pm
Operator : J.Misiurewicz
Sample : ICV #1 Inst : 5973D
Misc : Initial Calibration 8270D/625
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jul 29 09:30:26 2016
Quant Method : I:\ACQUDATA\5973D\Methods\8270072816.M
Quant Title : 8270 BNA ANALYSIS
QLast Update : Fri Jul 29 08:17:04 2016
Response via : Initial Calibration

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

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	IR	d4-1,4-Dichlorobenzene	40.000	40.000	0.0	100	0.00
2	TM	Pyridine	80.000	73.939	7.6	94	0.00
3	TM	N-Nitrosodimethylamine	80.000	69.082	13.6	87	0.00
4	TM	2-Picoline	80.000	76.183	4.8	95	0.00
5	TM	N-Nitrosomethylamine	80.000	66.543	16.8	89	0.00
6	TM	Methyl Methansulfonate	80.000	85.564	-7.0	109	0.00
7	S	SURR1,2-FLUOROPHENOL	80.000	78.127	2.3	97	0.00
8	TM	N-Nitrosodiethylamine	80.000	78.827	1.5	97	0.00
9	TM	Ethyl Mathanesulfonate	80.000	74.295	7.1	93	0.00
10	TM	Benzaldehyde	80.000	82.029	-2.5	106	0.00
11	TM	Aniline	80.000	77.639	3.0	97	0.00
12	S	SURR2,PHENOL-D6	80.000	80.863	-1.1	100	0.00
13	TMC	Phenol	80.000	79.776	0.3	101	0.00
14	TM	bis(2-Clethyl)Ether	80.000	84.273	-5.3	107	0.00
15	TM	Pentachloroethane	80.000	81.870	-2.3	105	0.00
16	TM	2-Chlorophenol	80.000	81.754	-2.2	100	0.00
17	TM	1,3-Diclbenzene	80.000	83.402	-4.3	104	0.00
18	TMC	1,4-Dichlorobenzene	80.000	80.887	-1.1	103	0.00
19	TM	1,2-Diclbenzene	80.000	79.750	0.3	99	0.00
20	TM	Benzyl Alcohol	80.000	86.101	-7.6	107	0.00
21	T	1-Methyl-2-pyrrolidinone	80.000	76.012	5.0	95	0.01
22	TM	2,2'-oxybis(1-Chloropropane	80.000	72.837	9.0	93	0.00
23	TM	2-Methylphenol	80.000	75.978	5.0	96	0.00
24	TM	3+4-Methylphenol	80.000	79.442	0.7	100	0.00
25	TM	Acetophenone	80.000	69.190	13.5	88	0.00
26	TMP	N-Nitroso-Di-n-propylamine	80.000	76.623	4.2	97	0.00
27	TM	N-Nitrosopyrrolidine	80.000	77.640	2.9	97	0.00
28	TM	N-Nitrosomorpholine	80.000	75.165	6.0	99	0.00
29	TM	o-Toluidine	80.000	76.437	4.5	97	0.00
30	TM	Hexachloroethane	80.000	81.888	-2.4	102	0.00
31	TM	o,o,o-Triethylphosphorothio	80.000	72.453	9.4	92	0.00
32	TM	Alpha-terpinol	80.000	80.579	-0.7	99	0.00
33	IR	d8-Naphthalene	40.000	40.000	0.0	99	0.00
34	S	SURR4,NITROBENZENE-D5	80.000	82.546	-3.2	103	0.00
35	TM	Nitrobenzene	80.000	81.396	-1.7	102	0.00
36	TM	N-Nitrosopiperidine	80.000	76.098	4.9	96	0.00
37	TM	Isophorone	80.000	78.419	2.0	100	0.00
38	TCM	2-Nitrophenol	80.000	85.380	-6.7	104	0.00
39	TM	Benzoic Acid	80.000	96.733	-20.9#	128	0.00
40	TM	2,4-Dimethylphenol	80.000	76.555	4.3	96	0.00
41	TM	bis(-2-Chloroethoxy)Methane	80.000	79.907	0.1	103	0.00
42	TCM	2,4-Dichlorophenol	80.000	80.948	-1.2	102	0.00
43	TM	a,a-Dimethylphenethylamine	40 ~~80.000~~	39.795	0.5 ~~50.3#~~	49	0.06
44	TM	1,2,4-Trichlorobenzene	80.000	79.163	1.0	103	0.00
45	TM	Naphthalene	80.000	74.001	7.5	96	0.00
46	TM	4-Chloroaniline	80.000	78.266	2.2	99	0.00
47	TM	2,6-Dichlorophenol	80.000	77.195	3.5	97	0.00
48	TCM	Hexachlorobutadiene	80.000	77.912	2.6	100	0.00
49	TM	Hexachloropropene	80.000	75.340	5.8	96	0.00
50	TMC	4-Chloro-3-methylphenol	80.000	81.418	-1.8	98	0.00
51	TM	N-N-di-n-butylamine	80.000	69.732	12.8	97	0.00

Evaluate Continuing Calibration Report

Data Path : I:\ACQUDATA\5973D\Data\072816\
Data File : BH251.D
Acq On : 28 Jul 2016 6:22 pm
Operator : J.Misiurewicz
Sample : ICV #1 Inst : 5973D
Misc : Initial Calibration 8270D/625
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jul 29 09:30:26 2016
Quant Method : I:\ACQUDATA\5973D\Methods\8270072816.M
Quant Title : 8270 BNA ANALYSIS
QLast Update : Fri Jul 29 08:17:04 2016
Response via : Initial Calibration

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

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
52	TM	Caprolactam	80.000	71.574	10.5	93	0.01
53	TM	p-Phenylenediamine	80.000	113.794	-42.2#	150	0.00
54	TM	Safrole	80.000	76.370	4.5	96	0.00
55	TM	2-Methylnaphthalene	80.000	80.085	-0.1	101	0.00
56	TM	1-Methylnaphthalene	80.000	77.200	3.5	99	0.00
57	IR	d10-Acenaphthene	40.000	40.000	0.0	102	0.00
58	TPM	Hexachlorocyclopentadiene	80.000	82.908	-3.6	101	0.00
59	TM	1,2,4,5-Tetrachlorobenzene	80.000	79.636	0.5	103	0.00
60	TM	1,2,3,4-Tetrachlorobenzene	80.000	72.266	9.7	90	0.00
61	TCM	2,4,6-Trichlorophenol	80.000	81.098	-1.4	94	0.00
62	TM	2,4,5-Trichlorophenol	80.000	81.911	-2.4	99	0.00
63	S	SURR5,2-FLUOROBIPHENYL	80.000	77.679	2.9	99	0.00
64	TM	Isosafrole	80.000	70.483	11.9	87	0.00
65	TM	1,1'-Biphenyl	80.000	75.535	5.6	95	0.00
66	TM	2-Chloronaphthalene	80.000	78.857	1.4	101	0.00
67	TM	2-Nitroaniline	80.000	79.245	0.9	91	0.00
68	TM	1,4-Naphthoquinone	80.000	119.907	-49.9#	144	0.00
69	TM	m-Dinitrobenzene	80.000	75.626	5.5	94	0.00
70	TM	Acenaphthylene	80.000	79.172	1.0	98	0.00
71	TM	Dimethyl phthalate	80.000	82.109	-2.6	105	0.00
72	TM	2,6-Dinitrotoluene	80.000	89.097	-11.4	106	0.00
73	TMC	Acenaphthene	80.000	77.969	2.5	98	0.00
74	TM	3-Nitroaniline	80.000	81.472	-1.8	98	0.00
75	TPM	2,4-Dinitrophenol	80.000	85.851	-7.3	109	0.00
76	TM	Dibenzofuran	80.000	79.380	0.8	100	0.00
77	TM	2,4-Dinitrotoluene	80.000	86.755	-8.4	108	0.00
78	TMP	4-Nitrophenol	80.000	80.181	-0.2	101	0.00
79	TM	Pentachlorobenzene	80.000	81.327	-1.7	101	0.00
80	TM	1-Napthylamine	80.000	68.911	13.9	90	0.00
81	TM	2-Napthylamine	80.000	73.095	8.6	93	0.00
82	TM	2,3,4,6-Tetrachlorophenol	80.000	82.074	-2.6	100	0.00
83	TM	Fluorene	80.000	79.349	0.8	101	0.00
84	TM	4-Chlorophenyl-phenylether	80.000	85.359	-6.7	108	0.00
85	TM	Diethylphthalate	80.000	83.265	-4.1	107	0.00
86	TM	4-Nitroaniline	80.000	82.328	-2.9	96	0.00
87	TM	5-Nitro-o-toluidine	80.000	85.310	-6.6	100	0.00
88	S	SURR3,2,4,6-TRIBROMOPHENOL	80.000	80.679	-0.8	97	0.00
89	TM	Sulfotepp	80.000	80.997	-1.2	97	0.00
90	TM	Octachlorocyclopentene	80.000	75.244	5.9	89	0.00
91	IR	d10-Phenanthrene	40.000	40.000	0.0	99	0.00
92	TM	Thionazin	80.000	72.054	9.9	93	0.00
93	TM	4,6-Dinitro-2-methylphenol	80.000	86.005	-7.5	108	0.00
94	TM	Diphenylamine	160.000	144.716	9.6	92	0.00
95	TM	1,2 Diphenylhydrazine	80.000	77.011	3.7	97	0.00
96	TCM	N-Nitrosodiphenylamine	160.000	144.716	9.6	92	0.00
97	TM	1,3,5-Trinirobenzene	80.000	80.635	-0.8	95	0.00
98	TM	Diallate	80.000	69.882	12.6	90	0.00
99	TM	Phorate	80.000	73.764	7.8	90	0.00
100	TM	Phenacetin	80.000	80.214	-0.3	97	0.00
101	TM	4-Bromophenyl-phenylether	80.000	81.410	-1.8	106	0.00

Evaluate Continuing Calibration Report

Data Path : I:\ACQUDATA\5973D\Data\072816\
Data File : BH251.D
Acq On : 28 Jul 2016 6:22 pm
Operator : J.Misiurewicz
Sample : ICV #1 Inst : 5973D
Misc : Initial Calibration 8270D/625
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jul 29 09:30:26 2016
Quant Method : I:\ACQUDATA\5973D\Methods\8270072816.M
Quant Title : 8270 BNA ANALYSIS
QLast Update : Fri Jul 29 08:17:04 2016
Response via : Initial Calibration

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

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
102	TM	Hexachlorobenzene	80.000	77.804	2.7	101	0.00
103	TM	Dimethoate	80.000	76.011	5.0	97	0.00
104	TM	Atrazine	80.000	80.838	-1.0	94	0.00
105	TCM	Pentachlorophenol	80.000	85.783	-7.2	100	0.00
106	TM	4-Aminobiphenyl	80.000	79.321	0.8	93	0.00
107	TM	Pentachloronitrobenzene	80.000	88.296	-10.4	102	0.00
108	TM	Pronamide	80.000	80.272	-0.3	93	0.00
109	TM	Dinoseb	80.000	80.759	-0.9	108	0.00
110	TM	Disulfoton	80.000	70.558	11.8	91	0.00
111	TM	Phenanthrene	80.000	78.470	1.9	97	0.00
112	TM	Anthracene	80.000	78.479	1.9	95	0.00
113	TM	Carbazole	80.000	77.368	3.3	93	0.00
114	TM	Di-n-butylphthalate	80.000	94.516	-18.1	108	0.00
115	TM	4-Nitroquinonline-1-oxide	80.000	81.283	-1.6	104	0.00
116	TCM	Fluoranthene	80.000	82.853	-3.6	98	0.00
117	IR	d12-Chrysene	40.000	40.000	0.0	99	0.00
118	TM	Methyl Parathion	80.000	91.264	-14.1	104	0.00
119	TM	Ethyl Parathion	80.000	79.226	1.0	95	0.00
120	TM	Methapyrilene	80.000	84.623	-5.8	116	0.00
121	TM	Isodrin	80.000	83.771	-4.7	97	0.00
122	TM	Benzidine	80.000	80.053	-0.1	97	0.00
123	TM	Pyrene	80.000	79.943	0.1	95	0.00
124	S	SURR6,TERPHENYL-D14	80.000	80.553	-0.7	97	0.00
125	TM	Aramite	80.000	78.997	1.3	94	0.00
126	TM	p-(Dimethylamino)azobenzene	80.000	79.750	0.3	94	0.00
127	TM	Chlorobenzilate	80.000	78.342	2.1	92	0.00
128	TM	Butyl benzyl phthalate	80.000	85.540	-6.9	107	0.00
129	TM	3,3-Dimethylbenzidine	80.000	77.124	3.6	94	0.00
130	TM	2-Acetylaminofluorene	80.000	76.149	4.8	89	0.00
131	TM	3,3'-Dichlorobenzidine	80.000	76.653	4.2	93	0.00
132	TM	Benzo(a)anthracene	80.000	78.743	1.6	97	0.00
133	TM	Chrysene	80.000	78.605	1.7	97	0.00
134	TM	bis(2-Ethylhexyl)phthalate	80.000	87.723	-9.7	105	0.00
135	IR	d12-Perylene	40.000	40.000	0.0	99	0.00
136	TCM	Di-n-octyl phthalate	80.000	83.705	-4.6	97	0.00
137	TM	7,12-Dimethylbenz(a)anthrac	80.000	75.656	5.4	90	0.00
138	TM	Benzo(b)Fluoranthene	80.000	82.193	-2.7	96	0.01
139	TM	Benzo(k)fluoranthene	80.000	82.706	-3.4	100	0.00
140	TCM	Benzo(a)pyrene	80.000	82.900	-3.6	98	0.00
141	TM	3-Methylcholanthrene	80.000	77.077	3.7	89	0.00
142	TM	Indeno(1,2,3-cd)Pyrene	80.000	84.226	-5.3	103	0.00
143	TM	Dibenz(a,h)anthracene	80.000	82.187	-2.7	99	0.00
144	TM	Benzo(g,h,i)perylene	80.000	61.416	23.2#	80	0.00

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

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\5973D\Data\072816\
Data File : BH251.D
Acq On : 28 Jul 2016 6:22 pm
Operator : J.Misiurewicz
Sample : ICV #1 Inst : 5973D
Misc : Initial Calibration 8270D/625
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jul 29 09:30:26 2016
Quant Method : I:\ACQUDATA\5973D\Methods\8270072816.M
Quant Title : 8270 BNA ANALYSIS
QLast Update : Fri Jul 29 08:17:04 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) d4-1,4-Dichlorobenzene	4.785	152	77473	40.00	ppm	0.00
33) d8-Naphthalene	5.951	136	350308	40.00	ppm	0.00
57) d10-Acenaphthene	7.652	164	198180	40.00	ppm	0.00
91) d10-Phenanthrene	9.117	188	321296	40.00	ppm	0.00
117) d12-Chrysene	12.385	240	299462	40.00	ppm	0.00
135) d12-Perylene	15.311	264	281667	40.00	ppm	0.00
System Monitoring Compounds						
7) SURR1,2-FLUOROPHENOL	3.720	112	227400	78.13	ppm	0.00
Spiked Amount 200.000	Range 10 - 105		Recovery = 39.06%			
12) SURR2,PHENOL-D6	4.459	99	273122	80.86	ppm	0.00
Spiked Amount 200.000	Range 10 - 107		Recovery = 40.43%			
34) SURR4,NITROBENZENE-D5	5.282	82	228491	82.55	ppm	0.00
Spiked Amount 100.000	Range 31 - 110		Recovery = 82.55%			
63) SURR5,2-FLUOROBIPHENYL	6.988	172	492938	77.68	ppm	0.00
Spiked Amount 100.000	Range 31 - 118		Recovery = 77.68%			
88) SURR3,2,4,6-TRIBROMOPH...	8.433	330	60955	80.68	ppm	0.00
Spiked Amount 200.000	Range 35 - 141		Recovery = 40.34%			
124) SURR6,TERPHENYL-D14	10.807	244	495734	80.55	ppm	0.00
Spiked Amount 100.000	Range 30 - 133		Recovery = 80.55%			
Target Compounds						Qvalue
2) Pyridine	2.731	79	227373	73.94	ppm	99
3) N-Nitrosodimethylamine	2.693	74	122366	69.08	ppm	97
4) 2-Picoline	3.282	93	233339	76.18	ppm	99
5) N-Nitrosomethylamine	3.357	42	101254	66.54	ppm	97
6) Methyl Methansulfonate	3.587	80	121683	85.56	ppm	96
8) N-Nitrosodiethylamine	3.897	102	95299	78.83	ppm	95
9) Ethyl Mathanesulfonate	4.127	79	169176	74.29	ppm	94
10) Benzaldehyde	4.421	106	150841	82.03	ppm	98
11) Aniline	4.507	93	380601	77.64	ppm	92
13) Phenol	4.475	94	272601	79.78	ppm	99
14) bis(2-Clethyl)Ether	4.549	93	222853	84.27	ppm	96
15) Pentachloroethane	4.549	117	78480	81.87	ppm	99
16) 2-Chlorophenol	4.608	128	225236	81.75	ppm	98
17) 1,3-Diclbenzene	4.742	146	251232	83.40	ppm	97
18) 1,4-Dichlorobenzene	4.801	146	252687	80.89	ppm	99
19) 1,2-Diclbenzene	4.935	146	238161	79.75	ppm	98
20) Benzyl Alcohol	4.902	79	175235	86.10	ppm	97
21) 1-Methyl-2-pyrrolidinone	4.945	99	156153	76.01	ppm	94
22) 2,2'-oxybis(1-Chloropr...	5.015	45	272094	72.84	ppm	92
23) 2-Methylphenol	5.009	108	195727	75.98	ppm	95
24) 3+4-Methylphenol	5.143	108	215601	79.44	ppm	97
25) Acetophenone	5.143	105	304587	69.19	ppm	98
26) N-Nitroso-Di-n-propyla...	5.138	70	178048	76.62	ppm	97
27) N-Nitrosopyrrolidine	5.132	100	127493	77.64	ppm	92
28) N-Nitrosomorpholine	5.165	56	136373	75.17	ppm	96
29) o-Toluidine	5.175	106	351177	76.44	ppm	100
30) Hexachloroethane	5.239	117	102072	81.89	ppm	98
31) o,o,o-Triethylphosphor...	5.678	198	99568	72.45	ppm	99
32) Alpha-terpinol	5.972	121	89806	80.58	ppm	95
35) Nitrobenzene	5.298	77	223128	81.40	ppm	97
36) N-Nitrosopiperidine	5.437	42	144939	76.10	ppm	92
37) Isophorone	5.512	82	425919	78.42	ppm	99
38) 2-Nitrophenol	5.592	139	109867	85.38	ppm	99

Quantitation Report (QT Reviewed)

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Acq On : 28 Jul 2016 6:22 pm
Operator : J.Misiurewicz
Sample : ICV #1 Inst : 5973D
Misc : Initial Calibration 8270D/625
ALS Vial : 12 Sample Multiplier: 1

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Quant Title : 8270 BNA ANALYSIS
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	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
39)	Benzoic Acid	5.737	105	111500	96.73	ppm		95
40)	2,4-Dimethylphenol	5.625	107	213577	76.55	ppm		97
41)	bis(-2-Chloroethoxy)Me...	5.710	93	275819	79.91	ppm		99
42)	2,4-Dichlorophenol	5.822	162	179652	80.95	ppm		98
43)	a,a-Dimethylphenethyla...	5.940	58	305061m	39.80	ppm		
44)	1,2,4-Trichlorobenzene	5.892	180	205423	79.16	ppm		99
45)	Naphthalene	5.972	128	641473	74.00	ppm		99
46)	4-Chloroaniline	6.020	127	289283	78.27	ppm		99
47)	2,6-Dichlorophenol	6.031	162	179211	77.20	ppm		98
48)	Hexachlorobutadiene	6.079	225	110311	77.91	ppm		98
49)	Hexachloropropene	6.047	213	127077	75.34	ppm		97
50)	4-Chloro-3-methylphenol	6.491	107	191814	81.42	ppm		95
51)	N-N-di-n-butylamine	6.336	84	158680	69.73	ppm		98
52)	Caprolactam	6.373	113	71065	71.57	ppm		98
53)	p-Phenylenediamine	6.373	80	35595	113.79	ppm		85
54)	Safrole	6.545	162	159385	76.37	ppm		98
55)	2-Methylnaphthalene	6.635	142	442162	80.08	ppm		100
56)	1-Methylnaphthalene	6.732	142	404079	77.20	ppm		98
58)	Hexachlorocyclopentadiene	6.780	237	90995	82.91	ppm		99
59)	1,2,4,5-Tetrachloroben...	6.796	216	196474	79.64	ppm		99
60)	1,2,3,4-Tetrachloroben...	7.074	216	189233	72.27	ppm		99
61)	2,4,6-Trichlorophenol	6.914	196	125598	81.10	ppm		95
62)	2,4,5-Trichlorophenol	6.962	196	131698	81.91	ppm		98
64)	Isosafrole	7.053	104	81655	70.48	ppm		97
65)	1,1'-Biphenyl	7.090	154	557240	75.53	ppm		100
66)	2-Chloronaphthalene	7.111	162	441628	78.86	ppm		99
67)	2-Nitroaniline	7.213	65	112831	79.24	ppm		97
68)	1,4-Naphthoquinone	7.288	158	131332	119.91	ppm		97
69)	m-Dinitrobenzene	7.427	168	57755	75.63	ppm		96
70)	Acenaphthylene	7.518	152	678870	79.17	ppm		99
71)	Dimethyl phthalate	7.390	163	474773	82.11	ppm		99
72)	2,6-Dinitrotoluene	7.448	165	101604	89.10	ppm		89
73)	Acenaphthene	7.684	153	441559	77.97	ppm		98
74)	3-Nitroaniline	7.620	138	123041	81.47	ppm		99
75)	2,4-Dinitrophenol	7.727	184	30034	85.85	ppm		91
76)	Dibenzofuran	7.855	168	604417	79.38	ppm		99
77)	2,4-Dinitrotoluene	7.850	165	130399	86.75	ppm		94
78)	4-Nitrophenol	7.807	65	71216	80.18	ppm		96
79)	Pentachlorobenzene	7.812	250	174256	81.33	ppm		98
80)	1-Napthylamine	7.941	143	388394	68.91	ppm		98
81)	2-Napthylamine	8.015	143	436638	73.09	ppm		98
82)	2,3,4,6-Tetrachlorophenol	7.983	232	91594	82.07	ppm		98
83)	Fluorene	8.192	166	496691	79.35	ppm		99
84)	4-Chlorophenyl-phenyle...	8.192	204	243081	85.36	ppm		99
85)	Diethylphthalate	8.080	149	503013	83.27	ppm		99
86)	4-Nitroaniline	8.229	138	134201	82.33	ppm		96
87)	5-Nitro-o-toluidine	8.213	152	142620	85.31	ppm		92
89)	Sulfotepp	8.459	322	63619	81.00	ppm		93
90)	Octachlorocyclopentene	8.438	307	61594	75.24	ppm		95
92)	Thionazin	8.160	107	82702	72.05	ppm		99
93)	4,6-Dinitro-2-methylph...	8.251	198	56057	86.00	ppm		82
94)	Diphenylamine	8.310	169	763814	144.72	ppm		100
95)	1,2 Diphenylhydrazine	8.347	77	524326	77.01	ppm		100
96)	N-Nitrosodiphenylamine	8.310	169	763814	144.72	ppm		100
97)	1,3,5-Trinirobenzene	8.598	213	23747	80.63	ppm	#	1
98)	Diallate	8.588	86	180782	69.88	ppm		99

Quantitation Report (QT Reviewed)

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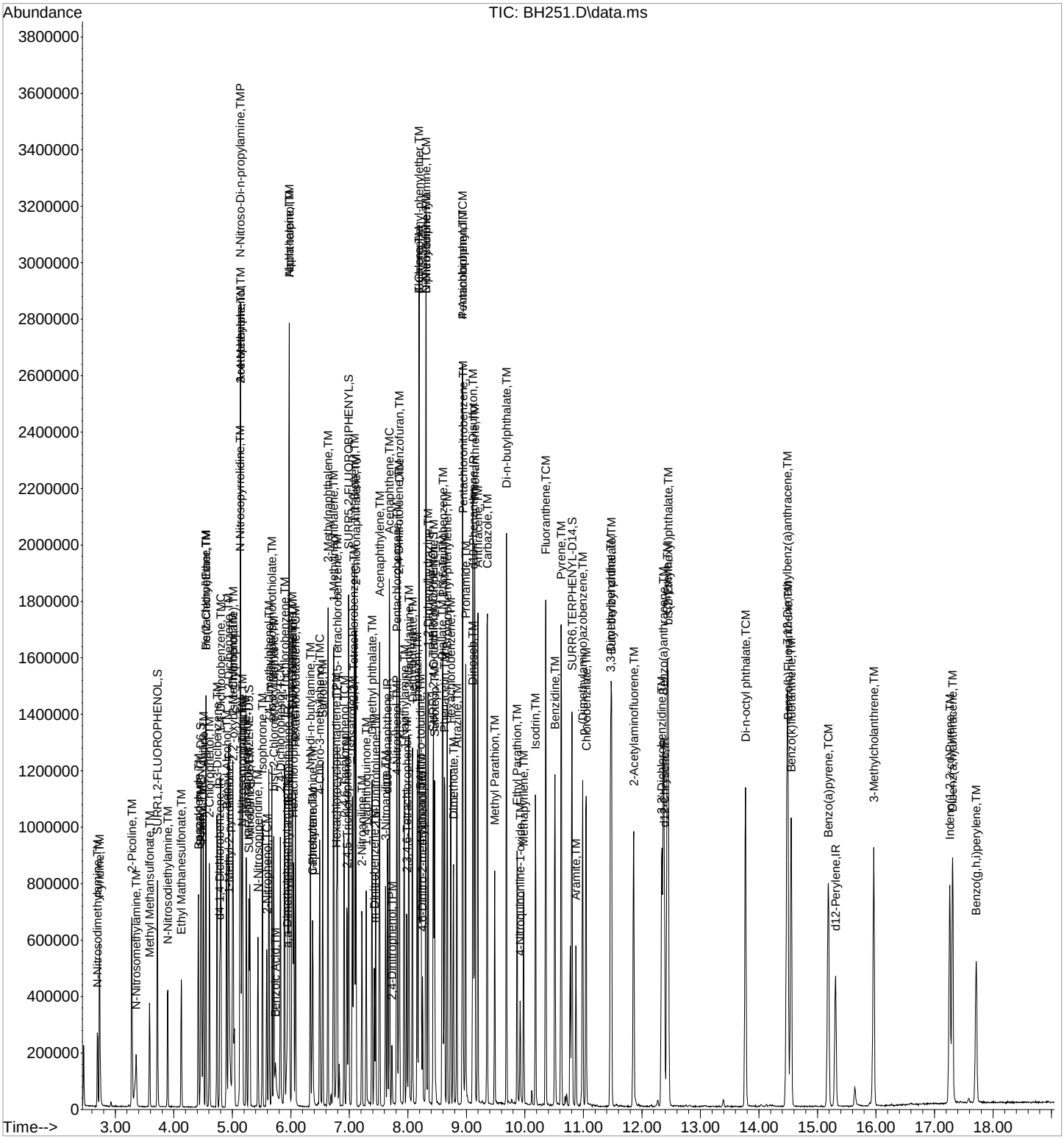
	Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
99)	Phorate	8.598	121	93902	73.76 ppm	91
100)	Phenacetin	8.625	108	273446	80.21 ppm	93
101)	4-Bromophenyl-phenylether	8.673	248	130018	81.41 ppm	98
102)	Hexachlorobenzene	8.732	284	141028	77.80 ppm	97
103)	Dimethoate	8.780	87	170625	76.01 ppm	98
104)	Atrazine	8.839	215	60131	80.84 ppm	94
105)	Pentachlorophenol	8.935	266	64999	85.78 ppm	97
106)	4-Aminobiphenyl	8.935	169	499751	79.32 ppm	99
107)	Pentachloronitrobenzene	8.941	237	55425	88.30 ppm	89
108)	Pronamide	8.989	173	233754	80.27 ppm	98
109)	Dinoseb	9.107	211	69233	80.76 ppm	100
110)	Disulfoton	9.112	88	234523	70.56 ppm	98
111)	Phenanthrene	9.144	178	666973	78.47 ppm	99
112)	Anthracene	9.197	178	668643	78.48 ppm	98
113)	Carbazole	9.358	167	699005	77.37 ppm	99
114)	Di-n-butylphthalate	9.684	149	963438	94.52 ppm	100
115)	4-Nitroquinonline-1-oxide	9.920	190	34125	81.28 ppm	90
116)	Fluoranthene	10.358	202	750484	82.85 ppm	99
118)	Methyl Parathion	9.486	109	129963	91.26 ppm	98
119)	Ethyl Parathion	9.866	97	91197	79.23 ppm	99
120)	Methapyrilene	9.978	58	202356	84.62 ppm	98
121)	Isodrin	10.182	193	72177	83.77 ppm	98
122)	Benzidine	10.513	184	492886	80.05 ppm	99
123)	Pyrene	10.620	202	755734	79.94 ppm	99
125)	Aramite	10.872	185	96120m	79.00 ppm	
126)	p-(Dimethylamino)azobe...	10.989	120	226544	79.75 ppm	99
127)	Chlorobenzilate	11.048	139	251949	78.34 ppm	99
128)	Butyl benzyl phthalate	11.481	149	408459	85.54 ppm	97
129)	3,3-Dimethylbenzidine	11.465	212	472831	77.12 ppm	99
130)	2-Acetylaminofluorene	11.861	181	309438	76.15 ppm	98
131)	3,3'-Dichlorobenzidine	12.337	252	256701	76.65 ppm	97
132)	Benzo(a)anthracene	12.369	228	670761	78.74 ppm	98
133)	Chrysene	12.433	228	640137	78.60 ppm	98
134)	bis(2-Ethylhexyl)phtha...	12.449	149	597110	87.72 ppm	100
136)	Di-n-octyl phthalate	13.771	149	925809	83.71 ppm	99
137)	7,12-Dimethylbenz(a)an...	14.487	256	307741	75.66 ppm	98
138)	Benzo(b)Fluoranthene	14.498	252	667401	82.19 ppm	95
139)	Benzo(k)fluoranthene	14.551	252	625240	82.71 ppm	99
140)	Benzo(a)pyrene	15.188	252	578181	82.90 ppm	97
141)	3-Methylcholanthrene	15.963	268	316374	77.08 ppm	97
142)	Indeno(1,2,3-cd)Pyrene	17.263	276	464089	84.23 ppm	98
143)	Dibenz(a,h)anthracene	17.311	278	517575	82.19 ppm	99
144)	Benzo(g,h,i)perylene	17.712	276	339247	61.42 ppm	98

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

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\5973D\Data\072816\
Data File : BH251.D
Acq On : 28 Jul 2016 6:22 pm
Operator : J.Misiurewicz
Sample : ICV #1 Inst : 5973D
Misc : Initial Calibration 8270D/625
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jul 29 09:30:26 2016
Quant Method : I:\ACQUDATA\5973D\Methods\8270072816.M
Quant Title : 8270 BNA ANALYSIS
QLast Update : Fri Jul 29 08:17:04 2016
Response via : Initial Calibration



Client: ALS Environmental - Canada **Service Request:** R1607963
Project: Picatinny Arsenal **Calibration Date:** 7/28/2016

Initial Calibration Summary
Semivolatile Organic Compounds by GC/MS

Calibration ID: RC1600075 **Signal ID:** 1
Instrument ID: R-MS-54

#	Lab Code	Sample Name	File Location	Aquisition Date
01	RC1600075-01	2.5 ppm STD	I:\ACQUDATA\5973D\Data\072816\BH243.D	07/28/2016 14:43
02	RC1600075-02	5.0 ppm STD	I:\ACQUDATA\5973D\Data\072816\BH244.D	07/28/2016 15:10
03	RC1600075-03	10 ppm STD	I:\ACQUDATA\5973D\Data\072816\BH245.D	07/28/2016 15:38
04	RC1600075-04	50 ppm STD	I:\ACQUDATA\5973D\Data\072816\BH246.D	07/28/2016 16:05
05	RC1600075-05	80 ppm STD	I:\ACQUDATA\5973D\Data\072816\BH247.D	07/28/2016 16:33
06	RC1600075-06	100 ppm STD	I:\ACQUDATA\5973D\Data\072816\BH248.D	07/28/2016 17:00
07	RC1600075-07	120 ppm STD	I:\ACQUDATA\5973D\Data\072816\BH249.D	07/28/2016 17:28
08	RC1600075-08	160 ppm STD	I:\ACQUDATA\5973D\Data\072816\BH250.D	07/28/2016 17:55

Analyte

1,2-Dichlorobenzene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.500	1.484	02	5.000	1.558	03	10.000	1.562	04	50.000	1.531
05	80.000	1.56	06	100.000	1.539	07	120.000	1.571	08	160.000	1.531

2-Fluorobiphenyl

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.500	1.338	02	5.000	1.247	03	10.000	1.307	04	50.000	1.257
05	80.000	1.282	06	100.000	1.25	07	120.000	1.274	08	160.000	1.293

Nitrobenzene-d5

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.500	0.2908	02	5.000	0.2871	03	10.000	0.3011	04	50.000	0.3171
05	80.000	0.315	06	100.000	0.3354	07	120.000	0.3337	08	160.000	0.3484

p-Terphenyl-d14

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.500	0.7422	02	5.000	0.7564	03	10.000	0.8279	04	50.000	0.8371
05	80.000	0.8475	06	100.000	0.8597	07	120.000	0.8447	08	160.000	0.8607

		Calibration Evaluation				Calibration Evaluation	
Analyte Name	**Compound Type**	**Fit Type**	**Eval**	**Eval Result**	**Control Criteria**	**Average RRF**	**Minimum RRF**
1,2-Dichlorobenzene	**TRG**	**Average RF**	**% RSD**	**1.8**	**≤20**	**1.542**	
2-Fluorobiphenyl	**SURR**	**Average RF**	**% RSD**	**2.4**	**≤20**	**1.281**	
Nitrobenzene-d5	**SURR**	**Average RF**	**% RSD**	**7.0**	**≤20**	**0.3161**	
p-Terphenyl-d14	**SURR**	**Average RF**	**% RSD**	**5.6**	**≤20**	**0.8220**	

Client: ALS Environmental - Canada **Service Request:** R1607963
Project: Picatinny Arsenal **Calibration Date:** 8/8/2016

Initial Calibration Summary
Semivolatile Organic Compounds by GC/MS

Calibration ID: RC1600080 **Signal ID:** 1
Instrument ID: R-MS-54

#	Lab Code	Sample Name	File Location	Aquisition Date
01	RC1600080-01	2.5 ppb STD	I:\ACQUDATA\5973D\Data\080816\BH377.D	08/08/2016 10:59
02	RC1600080-02	5.0 ppb STD	I:\ACQUDATA\5973D\Data\080816\BH378.D	08/08/2016 11:26
03	RC1600080-03	10 ppb STD	I:\ACQUDATA\5973D\Data\080816\BH379.D	08/08/2016 11:54
04	RC1600080-04	50 ppb STD	I:\ACQUDATA\5973D\Data\080816\BH380.D	08/08/2016 12:21
05	RC1600080-05	80 ppb STD	I:\ACQUDATA\5973D\Data\080816\BH381.D	08/08/2016 12:49
06	RC1600080-06	100 ppb STD	I:\ACQUDATA\5973D\Data\080816\BH382.D	08/08/2016 13:16
07	RC1600080-07	120 ppb STD	I:\ACQUDATA\5973D\Data\080816\BH383.D	08/08/2016 13:43
08	RC1600080-08	160 ppb STD	I:\ACQUDATA\5973D\Data\080816\BH384.D	08/08/2016 14:10

Analyte

1,2-Dichlorobenzene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.500	1.823	02	5.000	1.594	03	10.000	1.707	04	50.000	1.613
05	80.000	1.527	06	100.000	1.541	07	120.000	1.594	08	160.000	1.615

2-Fluorobiphenyl

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.500	1.496	02	5.000	1.454	03	10.000	1.35	04	50.000	1.352
05	80.000	1.352	06	100.000	1.358	07	120.000	1.342	08	160.000	1.363

Nitrobenzene-d5

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.500	0.3956	02	5.000	0.3874	03	10.000	0.3691	04	50.000	0.3566
05	80.000	0.3693	06	100.000	0.3679	07	120.000	0.3427	08	160.000	0.3531

p-Terphenyl-d14

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.500	0.9482	02	5.000	0.9385	03	10.000	0.8992	04	50.000	0.8963
05	80.000	0.8987	06	100.000	0.8673	07	120.000	0.8313	08	160.000	0.8595

		Calibration Evaluation				Calibration Evaluation	
Analyte Name	**Compound Type**	**Fit Type**	**Eval**	**Eval Result**	**Control Criteria**	**Average RRF**	**Minimum RRF**
1,2-Dichlorobenzene	**TRG**	**Average RF**	**% RSD**	**5.9**	**≤20**	**1.627**	
2-Fluorobiphenyl	**SURR**	**Average RF**	**% RSD**	**4.2**	**≤20**	**1.383**	
Nitrobenzene-d5	**SURR**	**Average RF**	**% RSD**	**4.7**	**≤20**	**0.3677**	
p-Terphenyl-d14	**SURR**	**Average RF**	**% RSD**	**4.4**	**≤20**	**0.8924**	

Client: ALS Environmental - Canada **Service Request:** R1607963
Project: Picatinny Arsenal **Calibration Date:** 7/28/2016

Initial Calibration Verification Summary
Semivolatile Organic Compounds by GC/MS

Calibration ID: RC1600075 **Signal ID:** 1
Instrument ID: R-MS-54

#	Lab Code	Sample Name	File Location	Aquisition Date
09	RC1600075-09	ICV #1	I:\ACQUDATA\5973D\Data\072816\BH251.D	07/28/2016 18:22

Analyte Name	Expected	Result	Average RF	SSV RF	% D	Criteria	Curve Fit
1,2-Dichlorobenzene	80.0	79.8	1.542	1.537	-0.312	±30	Average RF
2-Fluorobiphenyl	80.0	77.7	1.281	1.244	-2.902	±30	Average RF
Nitrobenzene-d5	80.0	82.5	0.316	0.326	3.18	±30	Average RF
p-Terphenyl-d14	80.0	80.6	0.822	0.828	0.691	±30	Average RF

Client: ALS Environmental - Canada
Project: Picatinny Arsenal

Service Request: R1607963
Calibration Date: 8/8/2016

Initial Calibration Verification Summary
Semivolatile Organic Compounds by GC/MS

Calibration ID: RC1600080
Instrument ID: R-MS-54

Signal ID: 1

#	Lab Code	Sample Name	File Location	Aquisition Date
09	RC1600080-09	ICV	I:\ACQUDATA\5973D\Data\080816\BH385.D	08/08/2016 14:38

Analyte Name	Expected	Result	Average RF	SSV RF	% D	Criteria	Curve Fit
1,2-Dichlorobenzene	80.0	82.1	1.627	1.670	2.69	±30	Average RF
2-Fluorobiphenyl	80.0	78.3	1.383	1.353	-2.167	±30	Average RF
Nitrobenzene-d5	80.0	79.7	0.368	0.366	-0.377	±30	Average RF
p-Terphenyl-d14	80.0	80.3	0.892	0.896	0.434	±30	Average RF

Client: ALS Environmental - Canada
Project: Picatinny Arsenal

Service Request: R1607963
Date Analyzed: 08/05/16 10:59

Continuing Calibration Verification (CCV) Summary
Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
File ID: I:\ACQUDATA\5973D\Data\080516\BH349.D\

Calibration Date: 7/28/2016
Calibration ID: RC1600075
Analysis Lot: 508851
Units: ppm

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
1,2-Dichlorobenzene	80.0	75.6	1.5	1.5	-5.5	NA	±20	Average RF
2-Fluorobiphenyl	80.0	81.8	1.3	1.3	2.3	NA	±20	Average RF
Nitrobenzene-d5	80.0	82.3	0.3	0.3	2.8	NA	±20	Average RF
p-Terphenyl-d14	80.0	80.2	0.8	0.8	0.2	NA	±20	Average RF

Client: ALS Environmental - Canada
Project: Picatinny Arsenal

Service Request: R1607963
Date Analyzed: 08/09/16 07:30

Continuing Calibration Verification (CCV) Summary
Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
File ID: I:\ACQUDATA\5973D\Data\080916\BH402.D\

Calibration Date: 8/8/2016
Calibration ID: RC1600080
Analysis Lot: 509246
Units: ppm

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
1,2-Dichlorobenzene	80.0	78.1	1.6	1.6	-2.3	NA	±20	Average RF
2-Fluorobiphenyl	80.0	76.8	1.4	1.3	-4.0	NA	±20	Average RF
Nitrobenzene-d5	80.0	78.6	0.4	0.4	-1.7	NA	±20	Average RF
p-Terphenyl-d14	80.0	80.3	0.9	0.9	0.3	NA	±20	Average RF

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QA/QC Report

Client: ALS Environmental - Canada **Service Request:**R1607963
Project: Picatinny Arsenal

Analysis Run Log
Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D **Analysis Lot:**508851
Instrument ID:R-MS-54

Raw Data File	Sample Name	Lab Code	Date Analyzed	Time Analyzed	Q
I:\ACQUDATA\5973D\Data\072816\BH241.D\	ZZZZZZZ	ZZZZZZZ	7/28/2016	13:53:00	
I:\ACQUDATA\5973D\Data\072816\BH243.D\	Initial Calibration	RQ1609213-04	7/28/2016	14:43:00	
I:\ACQUDATA\5973D\Data\072816\BH244.D\	Initial Calibration	RQ1609213-05	7/28/2016	15:10:00	
I:\ACQUDATA\5973D\Data\072816\BH245.D\	Initial Calibration	RQ1609213-06	7/28/2016	15:38:00	
I:\ACQUDATA\5973D\Data\072816\BH246.D\	Initial Calibration	RQ1609213-07	7/28/2016	16:05:00	
I:\ACQUDATA\5973D\Data\072816\BH247.D\	Initial Calibration	RQ1609213-08	7/28/2016	16:33:00	
I:\ACQUDATA\5973D\Data\072816\BH248.D\	Initial Calibration	RQ1609213-09	7/28/2016	17:00:00	
I:\ACQUDATA\5973D\Data\072816\BH249.D\	Initial Calibration	RQ1609213-10	7/28/2016	17:28:00	
I:\ACQUDATA\5973D\Data\072816\BH250.D\	Initial Calibration	RQ1609213-11	7/28/2016	17:55:00	
I:\ACQUDATA\5973D\Data\072816\BH251.D\	ZZZZZZZ	ZZZZZZZ	7/28/2016	18:22:00	
I:\ACQUDATA\5973D\Data\080516\BH348.D\	ZZZZZZZ	ZZZZZZZ	8/5/2016	10:41:00	
I:\ACQUDATA\5973D\Data\080516\BH349.D\	Continuing Calibration Verification	RQ1609213-02	8/5/2016	10:59:00	
I:\ACQUDATA\5973D\Data\080516\BH350.D\	Continuing Cal. Verification	RQ1609213-03	8/5/2016	11:39:00	
I:\ACQUDATA\5973D\Data\080516\BH358.D\	ZZZZZZZ	ZZZZZZZ	8/5/2016	15:20:00	
I:\ACQUDATA\5973D\Data\080516\BH359.D\	ZZZZZZZ	ZZZZZZZ	8/5/2016	15:48:00	
I:\ACQUDATA\5973D\Data\080516\BH360.D\	ZZZZZZZ	ZZZZZZZ	8/5/2016	16:16:00	
I:\ACQUDATA\5973D\Data\080516\BH361.D\	ZZZZZZZ	ZZZZZZZ	8/5/2016	16:43:00	
I:\ACQUDATA\5973D\Data\080516\BH362.D\	Method Blank	RQ1608990-01	8/5/2016	17:11:00	
I:\ACQUDATA\5973D\Data\080516\BH363.D\	Lab Control Sample	RQ1608990-02	8/5/2016	17:39:00	
I:\ACQUDATA\5973D\Data\080516\BH364.D\	Duplicate Lab Control Sample	RQ1608990-03	8/5/2016	18:07:00	
I:\ACQUDATA\5973D\Data\080516\BH365.D\	PY-1012	R1607963-002	8/5/2016	18:34:00	
I:\ACQUDATA\5973D\Data\080516\BH366.D\	PY-2009C	R1607963-008	8/5/2016	19:02:00	
I:\ACQUDATA\5973D\Data\080516\BH367.D\	PY-2021	R1607963-012	8/5/2016	19:29:00	
I:\ACQUDATA\5973D\Data\080516\BH368.D\	PY-2021 MS	RQ1608990-06	8/5/2016	19:57:00	
I:\ACQUDATA\5973D\Data\080516\BH369.D\	PY-2021 DMS	RQ1608990-07	8/5/2016	20:24:00	
I:\ACQUDATA\5973D\Data\080516\BH370.D\	PY-3012	R1607963-019	8/5/2016	20:53:00	
I:\ACQUDATA\5973D\Data\080516\BH371.D\	ZZZZZZZ	ZZZZZZZ	8/5/2016	21:20:00	
I:\ACQUDATA\5973D\Data\080916\BH401.D\	ZZZZZZZ	ZZZZZZZ	8/9/2016	07:08:00	
I:\ACQUDATA\5973D\Data\080916\BH401.D\	ZZZZZZZ	ZZZZZZZ	8/9/2016	07:08:00	
I:\ACQUDATA\5973D\Data\080916\BH402.D\	ZZZZZZZ	ZZZZZZZ	8/9/2016	07:30:00	
I:\ACQUDATA\5973D\Data\080916\BH403.D\	ZZZZZZZ	ZZZZZZZ	8/9/2016	07:57:00	
I:\ACQUDATA\5973D\Data\080916\BH408.D\	ZZZZZZZ	ZZZZZZZ	8/9/2016	10:20:00	
I:\ACQUDATA\5973D\Data\080916\BH409.D\	ZZZZZZZ	ZZZZZZZ	8/9/2016	10:47:00	
I:\ACQUDATA\5973D\Data\080916\BH410.D\	ZZZZZZZ	ZZZZZZZ	8/9/2016	11:15:00	
I:\ACQUDATA\5973D\Data\080916\BH411.D\	ZZZZZZZ	ZZZZZZZ	8/9/2016	11:43:00	
I:\ACQUDATA\5973D\Data\080916\BH412.D\	ZZZZZZZ	ZZZZZZZ	8/9/2016	12:10:00	
I:\ACQUDATA\5973D\Data\080916\BH413.D\	ZZZZZZZ	ZZZZZZZ	8/9/2016	12:37:00	
I:\ACQUDATA\5973D\Data\080916\BH414.D\	ZZZZZZZ	ZZZZZZZ	8/9/2016	13:05:00	
I:\ACQUDATA\5973D\Data\080916\BH420.D\	ZZZZZZZ	ZZZZZZZ	8/9/2016	15:52:00	
I:\ACQUDATA\5973D\Data\080916\BH421.D\	ZZZZZZZ	ZZZZZZZ	8/9/2016	16:19:00	
I:\ACQUDATA\5973D\Data\080916\BH422.D\	ZZZZZZZ	ZZZZZZZ	8/9/2016	16:47:00	
I:\ACQUDATA\5973D\Data\080916\BH423.D\	ZZZZZZZ	ZZZZZZZ	8/9/2016	17:15:00	
I:\ACQUDATA\5973D\Data\080916\BH424.D\	ZZZZZZZ	ZZZZZZZ	8/9/2016	17:42:00	
I:\ACQUDATA\5973D\Data\080916\BH424.D\	ZZZZZZZ	ZZZZZZZ	8/9/2016	17:42:00	
I:\ACQUDATA\5973D\Data\080916\BH425.D\	ZZZZZZZ	ZZZZZZZ	8/9/2016	18:10:00	
I:\ACQUDATA\5973D\Data\080916\BH425.D\	ZZZZZZZ	ZZZZZZZ	8/9/2016	18:10:00	

Client: ALS Environmental - Canada **Service Request:**R1607963
Project: Picatinny Arsenal

Analysis Run Log
Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D **Analysis Lot:**508851
Instrument ID:R-MS-54

Raw Data File	Sample Name	Lab Code	Date Analyzed	Time Analyzed	Q
I:\ACQUDATA\5973D\Data\080916\BH426.D\	ZZZZZZZ	ZZZZZZZ	8/9/2016	18:38:00	
I:\ACQUDATA\5973D\Data\080916\BH426.D\	ZZZZZZZ	ZZZZZZZ	8/9/2016	18:38:00	
I:\ACQUDATA\5973D\Data\080916\BH427.D\	ZZZZZZZ	ZZZZZZZ	8/9/2016	19:06:00	
I:\ACQUDATA\5973D\Data\080916\BH428.D\	ZZZZZZZ	ZZZZZZZ	8/9/2016	19:34:00	
I:\ACQUDATA\5973D\Data\080916\BH429.D\	ZZZZZZZ	ZZZZZZZ	8/9/2016	20:02:00	
I:\ACQUDATA\5973D\Data\081216\BH519.D\	ZZZZZZZ	ZZZZZZZ	8/12/2016	18:32:00	
I:\ACQUDATA\5973D\Data\081216\BH520.D\	ZZZZZZZ	ZZZZZZZ	8/12/2016	19:00:00	
I:\ACQUDATA\5973D\Data\081216\BH521.D\	ZZZZZZZ	ZZZZZZZ	8/12/2016	19:28:00	
I:\ACQUDATA\5973D\Data\081516\BH544.D\	ZZZZZZZ	ZZZZZZZ	8/15/2016	12:59:00	
I:\ACQUDATA\5973D\Data\081516\BH547.D\	ZZZZZZZ	ZZZZZZZ	8/15/2016	14:21:00	
I:\ACQUDATA\5973D\Data\081516\BH548.D\	ZZZZZZZ	ZZZZZZZ	8/15/2016	14:48:00	

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QA/QC Report

Client: ALS Environmental - Canada **Service Request:**R1607963
Project: Picatinny Arsenal

Analysis Run Log
Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D **Analysis Lot:**509246
Instrument ID:R-MS-54

Raw Data File	Sample Name	Lab Code	Date Analyzed	Time Analyzed	Q
I:\ACQUDATA\5973D\Data\080916\BH402.D\	Continuing Calibration Verification	RQ1609350-02	8/9/2016	07:30:00	
I:\ACQUDATA\5973D\Data\080916\BH403.D\	Continuing Cal. Verification	RQ1609350-03	8/9/2016	07:57:00	
I:\ACQUDATA\5973D\Data\080916\BH405.D\	Method Blank	RQ1609061-01	8/9/2016	08:56:00	
I:\ACQUDATA\5973D\Data\080916\BH406.D\	Lab Control Sample	RQ1609061-02	8/9/2016	09:24:00	
I:\ACQUDATA\5973D\Data\080916\BH407.D\	Duplicate Lab Control Sample	RQ1609061-03	8/9/2016	09:52:00	
I:\ACQUDATA\5973D\Data\080916\BH416.D\	PY-3005B	R1607963-016	8/9/2016	14:00:00	
I:\ACQUDATA\5973D\Data\080916\BH417.D\	PY-3005B MS	RQ1609061-04	8/9/2016	14:28:00	
I:\ACQUDATA\5973D\Data\080916\BH418.D\	PY-3005B DMS	RQ1609061-05	8/9/2016	14:56:00	

Analysis: 8270/625	Analyst: [illegible]	Run Method: 8270D	
Date: 8/9/16	Instr. 5973-D	Quant Method:	
		LIMS Run#:	509246 / 509269-625 LO

Pos.	Sample	Diln.	Stds. ID	File#	OK?	Comments
1	Blk			BH460	Y	
2	Tune		172332	01	YT	7:08
3	CCV 8270/625		174779	02	YCC	
4	CCV Benz			03	YCC	
5	CCV Hexa		171380	04	YCC	
6	RQ1609061-01	Blk	267724 8/3 5	05	Y	(Benz)
7	-02	LCS	8270	06	YQ	Acetophenone ↓
8	↓ -03	LCSD		07	YQ	↓ ↓
9	R1607941-022		TCL II	08	Y	↓
10	R1607943-001		Semi.2 II	09	Y	(Benz)
11	↓ -003			10	Y	↓
12	-005			11	Y	
13	-007			12	Y	
14	-009			13	Y	
15	↓ -013			14	Y	↓
16	RQ1607954-004		PE I	15	(N)	RPT ½ (Benz)
17	R1607963-016		IV	16	Y	
18	RQ1609061-04			17	YQ	Surrogate ↓ ND's out
19	↓ -05			18	YQ	↓ ↓
20	R1607993-001	10	267726 TCS III	19	(N)	RPT ½ (Hexa)
21	↓ -003			20	Y	↓
22	R1607977-004		~~[illegible]~~ TCS III	21	Y	(Benz)
23	R1607992-001		Semi.2 II	22	Y	(Benz)
24	R1607930-001		267521 IV	23	Y	↓
25	RQ1609136-01	Blk	267937 8/5 w	24	Y	
26	-02	LCS	8270/625	25	YQ	
27	↓ -03	LCSD		26	YQ	
28	R1608166-003		TCS III	27	Y	7:06 (Benz)
29	R1608082-001		II	28	Y	
30	R1608039-003		II	29	Y	
31	CCV Kow28D		173439	30	YCC	
32	RQ1609134-01	Blk	267936 8/5	31	Y	
33	-02	LCS		32	YQ	
34	↓ -03	LCSD		33	YQ	
35	R1607960-002			34	Y	
36	↓ -003			35	Y	

All samples = 1 mL + 10 uL Combined IS/Surr.; 173745

Primary : exp: Secondary : exp:

Primary: exp: Secondary : exp:

Runlog GCEXT r1 12/5/12

Analysis: 8270D	Analyst: BA	Run Method: 8270D
Date: 8/5/16	Instr. 5973-D	Quant Method: 8270072816
		LIMS Run#:

Pos.	Sample	Diln.	Stds. ID	File#	OK?	Comments
				BH344		
	BUK			45	N	WRONG METHOD
	TUNE		172332	46		
	TUNE			47		WRONG vial
	TUNE			48	Y	
	TUNE			49	Y	
	CCV		174513	50	Y	BENZ ONLY
	CCV		173811	51	N	1,4-phenylenediamine
	RQ1608928-01	MB	267321	52	Y	
	-02	LCS		53	Y	
	-03	DLCS		54	Y	
	R1607868-004		NASA	55	Y	
	-011			56	Y	
	7911-009			57	Y	RPT 1/100
	7930-001	50. 200 µL/mL	TCL SMO pyridine	58	Y	
	RQ1608868-01		267311	59	Y	
	-02			60	Y	
	-03		EXP NASA	61	Y	
	R1607789-002			62	Y	
	RQ1608990-01	MB	267636	63	Y	
	-02	LCS		64	Y	
	-03	DLCS		65	Y	
	R1607963-002		1,2-DXB	66	Y	
	-008			67	Y	
	-012			68	Y	
	RQ1608990-06	MS		69	Y	
	-07	MSD		70	Y	
	R1607963-019			71	Y	
	7598-001					

All samples = 1 mL + 10 uL Combined IS/Surr.; 172745

Primary : _____ exp: Secondary : _____ exp:

Primary: _____ exp: Secondary : _____ exp:

Runlog GCEXT r1 12/5/12

Page 16

O-938

ALS Group USA, Corp.
dba ALS Environmental

Prep Summary Report

Client: ALS Environmental - Canada **Service Request:**R1607963
Project: Picatinny Arsenal
Sample Matrix: Water

Semivolatile Organic Compounds by GC/MS

Prep Method: EPA 3510C **Extraction Lot:**267636
Analytical Method: 8270D

Sample Name	Lab Code	Date Collected	Date Received	Sample Amount	Final Amount	Percent Solids
PY-1012	R1607963-002	7/27/16	7/30/16	1000 mL	1 mL	
PY-2009C	R1607963-008	7/28/16	7/30/16	1000 mL	1 mL	
PY-2021	R1607963-012	7/28/16	7/30/16	1000 mL	1 mL	
PY-3012	R1607963-019	7/29/16	7/30/16	1000 mL	1 mL	
Method Blank	RQ1608990-01MB	NA	NA	1000 mL	1 mL	
Lab Control Sample	RQ1608990-02LCS	NA	NA	1000 mL	1 mL	
Duplicate Lab Control Sample	RQ1608990-03DLCS	NA	NA	1000 mL	1 mL	
PY-2021	RQ1608990-06MS	7/28/16	7/30/16	1000 mL	1 mL	
PY-2021	RQ1608990-07DMS	7/28/16	7/30/16	1000 mL	1 mL	

Preparation Information Benchsheet

Prep Run#: 267636
Team: Semivoa GCMS/DMURPHY

Prep WorkFlow: OrgExtAq(7)
Prep Method: EPA 3510C

Status: Prepped
Prep Date/Time: 8/2/16 07:27 AM

#	Lab Code	Client ID	B#	Amt. Ext.	Method /Test	pH	AE	BN	Final Vol	Sample Desc. (Initial/Final)	SpikeAmt./Inv. ID	Comments
1	RQ1608990-01	MB		1000mL	8270D/SVO	6	x	x	1.00mL	clear-colorless	1.0000 mL/172877	
2	RQ1608990-02	LCS		1000mL	8270D/SVO	6	x	x	1.00mL	clear-colorless	1.0000 mL/172877; 1.0000 mL/174603; 1.0000 mL/172844; 1.0000 mL/174604	
3	RQ1608990-03	DLCS		1000mL	8270D/SVO	6	x	x	1.00mL	clear-colorless	1.0000 mL/172877; 1.0000 mL/174603; 1.0000 mL/174604; 1.0000 mL/172844	
4	R1607963-002	PY-1012	.01	1000mL	8270D/SVO	7	x	x	1.00mL	clear-colorless	1.0000 mL/172877	
5	R1607963-008	PY-2009C	.01	1000mL	8270D/SVO	8	x	x	1.00mL	gray-cloudy	1.0000 mL/172877	
6	R1607963-012	PY-2021	.01	1000mL	8270D/SVO	7	x	x	1.00mL	clear-colorless	1.0000 mL/172877	
7	RQ1608990-06	R1607963-012 MS	.02	1000mL	8270D/SVO	7	x	x	1.00mL	clear-colorless	1.0000 mL/174604; 1.0000 mL/172844; 1.0000 mL/172877; 1.0000 mL/174603	
8	RQ1608990-07	R1607963-012 DMS	.03	1000mL	8270D/SVO	7	x	x	1.00mL	clear-colorless	1.0000 mL/172877; 1.0000 mL/174604; 1.0000 mL/174603; 1.0000 mL/172844	
9	R1607963-019	PY-3012	.01	1000mL	8270D/SVO	7	x	x	1.00mL	clear-colorless	1.0000 mL/172877	
10	R1607598-001	Bulk Tank	.01	100mL	8270D/SVO	12	x	x	10.00mL	brown-opaque	1.0000 mL/172877	

Spiking Solutions

Name:	8270 LCS-NSI	Inventory ID	172844	Logbook Ref:		Expires On:	11/30/2016	Lot #:	053116
Name:	Color Coded BNA Surrogate Solution 10	Inventory ID	172877	Logbook Ref:		Expires On:	01/03/2018	Lot #:	268640
Name:	OLM/SOM additionals Spike 100ppm	Inventory ID	174603	Logbook Ref:		Expires On:	11/01/2016		
Name:	Benzidine LCS Spike 100ppm	Inventory ID	174604	Logbook Ref:		Expires On:	11/23/2016		

Preparation Materials

Eppendorf Pipette Repeater	EXT #16 (174258)	Sulfuric Acid, 50% H2SO4	(171677)	Dichloromethane (Methylene Chloride) 99.9% MeCl2	canister (174244)
Sodium Hydroxide 50% NaOH	(173421)	Prepared Sodium Sulfate Na2SO4	(174428)		

Preparation Steps

Step:	Extraction	Step:	Concentration	Step:	Final Volume
Started:	8/2/16 07:27	Started:	8/3/16 14:41	Started:	8/3/16 19:47
Finished:	8/2/16 15:41	Finished:	8/3/16 16:00	Finished:	8/3/16 19:47
By:	DMURPHY	By:	MROGERSON	By:	MROGERSON
Comments		Comments		Comments	

Preparation Information Benchsheet

Prep Run#: 267636
Team: Semivoa GCMS/DMURPHY

Prep WorkFlow: OrgExtAq(7)
Prep Method: EPA 3510C

Status: Prepped
Prep Date/Time: 8/2/16 07:27 AM

Comments:

Reviewed By: [illegible] Date: 8/4 Spike Witness: MROGERSON Date:

Chain of Custody

Relinquished By: MR to Flo 8/3/16 Date:

Received By: Date:

Extracts Examined
Yes No

ALS Group USA, Corp.
dba ALS Environmental

Prep Summary Report

Client: ALS Environmental - Canada **Service Request:**R1607963
Project: Picatinny Arsenal
Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Prep Method: EPA 3541 **Extraction Lot:**267724
Analytical Method: 8270D

Sample Name	Lab Code	Date Collected	Date Received	Sample Amount	Final Amount	Percent Solids
PY-3005B	R1607963-016	7/29/16	7/30/16	30.0000 g	1 mL	
Method Blank	RQ1609061-01MB	NA	NA	30.0 g	1 mL	
Lab Control Sample	RQ1609061-02LCS	NA	NA	30.0 g	1 mL	
Duplicate Lab Control Sample	RQ1609061-03DLCS	NA	NA	30.0 g	1 mL	
PY-3005B	RQ1609061-04MS	7/29/16	7/30/16	30.0100 g	1 mL	
PY-3005B	RQ1609061-05DMS	7/29/16	7/30/16	30.0300 g	1 mL	

Preparation Information Benchsheet

Prep Run#: 267724
Team: Semivoa GCMS/MROGERSON

Prep WorkFlow: OrgExtS(14)
Prep Method: EPA 3541

Status: Prepped
Prep Date/Time: 8/3/16 01:30 PM

#	Lab Code	Client ID	B#	Amt. Ext.	Method /Test	pH	AE	BN	Final Vol	Sample Desc. (Initial/Final)	SpikeAmt./Inv. ID	Comments
1	RQ1609061-01	MB		30.0g	8270D/SVO				1.00mL	Sand	1.0000 mL/174603; 1.0000 mL/171867; 1.0000 mL/174604	
2	RQ1609061-02	LCS		30.0g	8270D/SVO				1.00mL	Sand	1.0000 mL/174603; 1.0000 mL/174463; 1.0000 mL/171867; 1.0000 mL/174604	
3	RQ1609061-03	DLCS		30.0g	8270D/SVO				1.00mL	Sand	1.0000 mL/171867; 1.0000 mL/174463; 1.0000 mL/174603; 1.0000 mL/174604	
4	R1607941-022	Clinker Ash	.01	10.0200g	8270D/SVO				1.00mL	White, Med	1.0000 mL/171867	
5	R1607943-001	ARK-01	.01	29.9800g	8270D/SVO				1.00mL	Brown, Med	1.0000 mL/171867	
6	R1607943-003	ARK-03	.01	30.0200g	8270D/SVO				1.00mL	Brown, Large	1.0000 mL/171867	
7	R1607943-005	ARK-05	.01	29.9900g	8270D/SVO				1.00mL	Brown, Med	1.0000 mL/171867	
8	R1607943-007	ARK-07	.01	29.9800g	8270D/SVO				1.00mL	Brown, Fine	1.0000 mL/171867	
9	R1607943-009	ARK-09	.01	29.9900g	8270D/SVO				1.00mL	Brown, Large	1.0000 mL/171867	
10	R1607943-013	ARK-13	.01	29.9800g	8270D/SVO				1.00mL	Brown, Med	1.0000 mL/171867	
11	R1607954-004	PT-BNA-SOIL 7065-13	.01	30.0g	8270D/SVO				1.00mL		1.0000 mL/171867	
12	R1607963-016	PY-3005B	.01	30g	8270D/SVO				1.00mL	Rocks	1.0000 mL/171867	
13	RQ1609061-04	R1607963-016 MS	.01	30.0100g	8270D/SVO				1.00mL	Rocks	1.0000 mL/174463; 1.0000 mL/171867; 1.0000 mL/174604; 1.0000 mL/174603	
14	RQ1609061-05	R1607963-016 DMS	.01	30.0300g	8270D/SVO				1.00mL	Rocks	1.0000 mL/174463; 1.0000 mL/174604; 1.0000 mL/174603; 1.0000 mL/171867	

Spiking Solutions

Name:	8270 Soil Surrogate 100-200ppm	Inventory ID	171867	Logbook Ref:	Expires On:	10/19/2016		
Name:	8270 LCS-NSI	Inventory ID	174463	Logbook Ref:	Expires On:	01/31/2017	Lot #:	071316
Name:	OLM/SOM additionals Spike 100ppm	Inventory ID	174603	Logbook Ref:	Expires On:	11/01/2016		
Name:	Benzidine LCS Spike 100ppm	Inventory ID	174604	Logbook Ref:	Expires On:	11/23/2016		

Preparation Materials

Boiling Stones PTFE	(171551)	Eppendorf Pipette Repeater	EXT #16 (174258)	Extraction Thimbles 33 X80 mm	(174168)
50:50 Dichloromethane:Acetone	(174245)	Dichloromethane (Methylene Chloride) 99.9% MeCl2	canister (174244)	Prepared Sodium Sulfate Na2SO4	(173604)
Sand Reagent Grade	(172539)	SVOA BALANCE	R-BALANCE-05 (12939)		

Preparation Information Benchsheet

Prep Run#: 267724
Team: Semivoa GCMS/MROGERSON

Prep WorkFlow: OrgExtS(14)
Prep Method: EPA 3541

Status: Prepped
Prep Date/Time: 8/3/16 01:30 PM

Preparation Steps

Step:	Extraction	Step:	Concentration	Step:	Extraction Complete
Started:	8/3/16 13:30	Started:	8/3/16 17:20	Started:	8/3/16 19:46
Finished:	8/3/16 16:00	Finished:	8/3/16 18:30	Finished:	8/3/16 19:46
By:	MROGERSON	By:	MROGERSON	By:	MROGERSON
Comments		Comments		Comments	

Comments:

Reviewed By: MRG Date: 8/4/16 Spike Witness: DMURPHY Date:

Chain of Custody

Relinquished By: MRoFLo 8/3/16 Date:

Received By: Date:

Extracts Examined
Yes No

General Chemistry

ALS Environmental—Rochester Laboratory
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client:	ALS Environmental - Canada	**Service Request:**	R1607963
Project:	Picatinny Arsenal	**Date Collected:**	07/27/16 19:30
Sample Matrix:	Water	**Date Received:**	07/30/16 13:45
Sample Name:	PY-1011	**Basis:**	NA
Lab Code:	R1607963-001		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Solids, Total	SM 2540 B-1997(2011)	**2060**	mg/L	50	1	08/02/16 14:15	
Solids, Total Dissolved (TDS)	SM 2540 C-1997(2011)	**1960**	mg/L	50	1	08/02/16 10:40	
Solids, Total Suspended (TSS)	SM 2540 D-1997(2011)	**4.5**	mg/L	1.4	1	08/03/16 13:55	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client:	ALS Environmental - Canada	**Service Request:**	R1607963
Project:	Picatinny Arsenal	**Date Collected:**	07/28/16 17:05
Sample Matrix:	Water	**Date Received:**	07/30/16 13:45
Sample Name:	PY-2019	**Basis:**	NA
Lab Code:	R1607963-010		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Solids, Total	SM 2540 B-1997(2011)	**864**	mg/L	20	1	08/02/16 14:15	
Solids, Total Dissolved (TDS)	SM 2540 C-1997(2011)	**848**	mg/L	20	1	08/02/16 10:40	
Solids, Total Suspended (TSS)	SM 2540 D-1997(2011)	**7.5**	mg/L	1.3	1	08/03/16 13:55	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client:	ALS Environmental - Canada	**Service Request:**	R1607963
Project:	Picatinny Arsenal	**Date Collected:**	07/28/16 17:05
Sample Matrix:	Water	**Date Received:**	07/30/16 13:45
Sample Name:	PY-2020	**Basis:**	NA
Lab Code:	R1607963-011		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Solids, Total	SM 2540 B-1997(2011)	**846**	mg/L	20	1	08/02/16 14:15	
Solids, Total Dissolved (TDS)	SM 2540 C-1997(2011)	**834**	mg/L	20	1	08/02/16 10:40	
Solids, Total Suspended (TSS)	SM 2540 D-1997(2011)	**9.1**	mg/L	1.5	1	08/04/16 13:00	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client:	ALS Environmental - Canada	**Service Request:**	R1607963
Project:	Picatinny Arsenal	**Date Collected:**	07/29/16 15:25
Sample Matrix:	Water	**Date Received:**	07/30/16 13:45
Sample Name:	PY-3011	**Basis:**	NA
Lab Code:	R1607963-018		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Solids, Total	SM 2540 B-1997(2011)	**932**	mg/L	20	1	08/02/16 14:15	
Solids, Total Dissolved (TDS)	SM 2540 C-1997(2011)	**894**	mg/L	20	1	08/02/16 10:40	
Solids, Total Suspended (TSS)	SM 2540 D-1997(2011)	**14.4**	mg/L	1.4	1	08/04/16 13:00	

Analytical Results Summary

Instrument Name: R-Balance-18 **Analyst:** KWONG **Analysis Lot:** 508051 **Method/Testcode:** SM 2540 C-1997(2011)/TDS

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC?	Tier
RQ1609007-01	Solids, Total Dissolved (TDS)	MB		Water	1.00 mg/L	100 mL	10 mg/L U	1	4	10			8/2/16 10:40	N	IV
RQ1609007-02	Solids, Total Dissolved (TDS)	LCS		Water	902.00 mg/L	50 mL	902 mg/L	1	8	20	99		8/2/16 10:40	N	IV
R1607753-002	Solids, Total Dissolved (TDS)	N/A		Water	2430.00 mg/L	20 mL	2430 mg/L	1	18	50			8/2/16 10:40	N	IV
R1607753-003	Solids, Total Dissolved (TDS)	N/A		Water	2004.00 mg/L	50 mL	2000 mg/L	1	8	20			8/2/16 10:40	N	IV
R1607753-004	Solids, Total Dissolved (TDS)	N/A		Water	418.00 mg/L	100 mL	418 mg/L	1	4	10			8/2/16 10:40	N	IV
R1607753-005	Solids, Total Dissolved (TDS)	N/A		Water	856.00 mg/L	50 mL	856 mg/L	1	8	20			8/2/16 10:40	N	IV
R1607753-006	Solids, Total Dissolved (TDS)	N/A		Water	546.00 mg/L	100 mL	546 mg/L	1	4	10			8/2/16 10:40	N	IV
R1607753-007	Solids, Total Dissolved (TDS)	N/A		Water	437.00 mg/L	100 mL	437 mg/L	1	4	10			8/2/16 10:40	N	IV
R1607753-008	Solids, Total Dissolved (TDS)	N/A		Water	2068.00 mg/L	25 mL	2070 mg/L	1	15	40			8/2/16 10:40	N	IV
R1607753-009	Solids, Total Dissolved (TDS)	N/A		Water	3065.00 mg/L	20 mL	3070 mg/L	1	18	50			8/2/16 10:40	Y	IV
RQ1609007-03	Solids, Total Dissolved (TDS)	DUP	R1607753-009	Water	3065.00 mg/L	20 mL	3070 mg/L	1	18	50		<1	8/2/16 10:40	N	IV
R1607753-010	Solids, Total Dissolved (TDS)	N/A		Water	512.00 mg/L	100 mL	512 mg/L	1	4	10			8/2/16 10:40	N	IV
R1607753-011	Solids, Total Dissolved (TDS)	N/A		Water	406.00 mg/L	100 mL	406 mg/L	1	4	10			8/2/16 10:40	N	IV
R1607963-001	Solids, Total Dissolved (TDS)	N/A		Water	1955.00 mg/L	20 mL	1960 mg/L	1	18	50			8/2/16 10:40	N	IV
R1607963-010	Solids, Total Dissolved (TDS)	N/A		Water	848.00 mg/L	50 mL	848 mg/L	1	8	20			8/2/16 10:40	N	IV
R1607963-011	Solids, Total Dissolved (TDS)	N/A		Water	834.00 mg/L	50 mL	834 mg/L	1	8	20			8/2/16 10:40	N	IV
R1607963-018	Solids, Total Dissolved (TDS)	N/A		Water	894.00 mg/L	50 mL	894 mg/L	1	8	20			8/2/16 10:40	N	IV
R1607909-001	Solids, Total Dissolved (TDS)	N/A		Water	362.00 mg/L	100 mL	362 mg/L	1	4	10			8/2/16 10:40	N	II
R1607909-003	Solids, Total Dissolved (TDS)	N/A		Water	355.00 mg/L	100 mL	355 mg/L	1	4	10			8/2/16 10:40	N	II
R1607912-001	Solids, Total Dissolved (TDS)	N/A		Water	51000.00 mg/L	0.5 mL	51000 mg/L	1	800	2000			8/2/16 10:40	N	I
R1607912-002	Solids, Total Dissolved (TDS)	N/A		Water	18400.00 mg/L	1 mL	18400 mg/L	1	400	1000			8/2/16 10:40	N	I
RQ1609007-04	Solids, Total Dissolved (TDS)	DUP	R1607912-002	Water	18600.00 mg/L	1 mL	18600 mg/L	1	400	1000		1	8/2/16 10:40	N	I
R1607950-001	Solids, Total Dissolved (TDS)	N/A		Water	1545.45 mg/L	33 mL	1550 mg/L	1	11	30			8/2/16 10:40	N	II

# indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

Reviewed & Approved
By:
Date: 8/4/16

Analytical Results Summary

Instrument Name: R-Balance-18 **Analyst:** KWONG **Analysis Lot:** 508051 **Method/Testcode:** SM 2540 C-1997(2011)/TDS

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC?	Tier
R1607964-001	Solids, Total Dissolved (TDS)	N/A		Water	424.00 mg/L	100 mL	424 mg/L	1	4	10			8/2/16 10:40	N	IV

# indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

Analyte: Total Suspended Solids (TSS) Analyst: KAW Date: 8/2/16
Method: SM 2540D-1997(2011) Pipet: CURLY Time: 10:40
Analyte: Total Dissolved Solids (TDS)
Method: SM 2540C-1997(2011) **TS** ____ **TDS** X **TSS** ____
Analyte: Total Solids (TS)
Method SM 2540B-1997(2011) LCS Lot: WC161017A TV: **914** Balance ID: **R-BALANCE-18**
Filter Lot: **WC161009D** Oven ID: 1 *Lower tare weight used unless marked: ____

	Misc.	Order #	Dish ID	Sample Vol. (mLs)	Used all	Vol. Conf.	Raw Data				Total Solids (mg/L)
1		MB	DW	100		X	Gross (A) 1:	84.1196	Gross (A) 3:		1.00
							Gross (A) 2:	84.1194			
							B)	84.1193	A-B=	0.0001	
2		LCS	BUD	50		X	Gross (A) 1:	83.3931	Gross (A) 3:		902.00
							Gross (A) 2:	83.3929			
							B)	83.3478	A-B=	0.0451	
3		R1607753-002	W7	20		X	Gross (A) 1:	87.0038	Gross (A) 3:		2430.00
							Gross (A) 2:	87.0033			
							B)	86.9547	A-B=	0.0486	
4		R1607753-003	P1	50		X	Gross (A) 1:	81.0443	Gross (A) 3:		2004.00
							Gross (A) 2:	81.0447			
							B)	80.9441	A-B=	0.1002	
5		R1607753-004	14	100		X	Gross (A) 1:	83.0964	Gross (A) 3:		418.00
							Gross (A) 2:	83.0958			
							B)	83.0540	A-B=	0.0418	
6		R1607753-005	WS	50		X	Gross (A) 1:	83.5081	Gross (A) 3:		856.00
							Gross (A) 2:	83.5084			
							B)	83.4653	A-B=	0.0428	
7		R1607753-006	FN	100		X	Gross (A) 1:	82.1359	Gross (A) 3:		546.00
							Gross (A) 2:	82.1358			
							B)	82.0812	A-B=	0.0546	
8		R1607753-007	VI	100		X	Gross (A) 1:	88.0820	Gross (A) 3:		437.00
							Gross (A) 2:	88.0816			
							B)	88.0379	A-B=	0.0437	
9		R1607753-008	VT	25		X	Gross (A) 1:	71.6386	Gross (A) 3:		2068.00
							Gross (A) 2:	71.6399			
							B)	71.5869	A-B=	0.0517	
10		R1607753-009	F9	20		X	Gross (A) 1:	82.2108	Gross (A) 3:		3065.00
							Gross (A) 2:	82.2112			
							B)	82.1495	A-B=	0.0613	
11		7753-009 DUP	A8	20		X	Gross (A) 1:	85.8980	Gross (A) 3:		3065.00
							Gross (A) 2:	85.8980			
							B)	85.8367	A-B=	0.0613	
12		R1607753-010	SS	100		X	Gross (A) 1:	80.9676	Gross (A) 3:		512.00
							Gross (A) 2:	80.9679			
							B)	80.9164	A-B=	0.0512	
13		R1607753-011	51	100		X	Gross (A) 1:	87.8993	Gross (A) 3:		406.00
							Gross (A) 2:	87.8978			
							B)	87.8572	A-B=	0.0406	

TS, TDS, TSS mg/L = (A-B)*1,000,000 /Sample Vol. (mls)
Where: A = wgt (g) of dried residue + dish
B = wgt (g) of tared dish

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Template-Solids-r4 6/10/16

Analyte: Total Suspended Solids (TSS) Analyst: KAW Date: 8/2/16
Method: SM 2540D-1997(2011) Pipet: CURLY Time: 10:40
Analyte: Total Dissolved Solids (TDS)
Method: SM 2540C-1997(2011) TS ____ TDS X TSS ____
Analyte: Total Solids (TS)
Method SM 2540B-1997(2011) LCS Lot: WC161017A TV: 914 Balance ID: R-BALANCE-18
Filter Lot: WC161009D Oven ID: 1 *Lower tare weight used unless marked: ____

	Misc.	Order #	Dish ID	Sample Vol. (mLs)	Used all	Vol. Conf.	Raw Data				Total Solids (mg/L)
14		R1607963-001	LA	20		X	Gross (A) 1:	88.1803	Gross (A) 3:		1955.00
							Gross (A) 2:	88.1798			
							B)	88.1407	A-B=	0.0391	
15		R1607963-010	WEI	50		X	Gross (A) 1:	83.6960	Gross (A) 3:		848.00
							Gross (A) 2:	83.6956			
							B)	83.6532	A-B=	0.0424	
16		R1607963-011	T5	50		X	Gross (A) 1:	82.4093	Gross (A) 3:		834.00
							Gross (A) 2:	82.4089			
							B)	82.3672	A-B=	0.0417	
17		R1607963-018	A5	50		X	Gross (A) 1:	85.6259	Gross (A) 3:		894.00
							Gross (A) 2:	85.6261			
							B)	85.5812	A-B=	0.0447	
18		R1607909-001	F	100		X	Gross (A) 1:	83.5512	Gross (A) 3:		362.00
							Gross (A) 2:	83.5518			
							B)	83.5150	A-B=	0.0362	
19		R1607909-003	30	100		X	Gross (A) 1:	86.7715	Gross (A) 3:		355.00
							Gross (A) 2:	86.7709			
							B)	86.7354	A-B=	0.0355	
20		R1607912-001	55	0.5		X	Gross (A) 1:	87.0602	Gross (A) 3:		51000.00
							Gross (A) 2:	87.0600			
							B)	87.0345	A-B=	0.0255	
21		R1607912-002	CV	1		X	Gross (A) 1:	79.4694	Gross (A) 3:		18400.00
							Gross (A) 2:	79.4697			
							B)	79.4510	A-B=	0.0184	
22	1.0810811	7912-002 DUP	AS	1		X	Gross (A) 1:	80.3438	Gross (A) 3:		18600.00
							Gross (A) 2:	80.3438			
							B)	80.3252	A-B=	0.0186	
23		R1607950-001	FG	33		X	Gross (A) 1:	81.7692	Gross (A) 3:		1545.45
							Gross (A) 2:	81.7693			
							B)	81.7182	A-B=	0.0510	
24		R1607964-001	64	100		X	Gross (A) 1:	85.7877	Gross (A) 3:		424.00
							Gross (A) 2:	85.7882			
							B)	85.7453	A-B=	0.0424	

TS, TDS, TSS mg/L = (A-B)*1,000,000 /Sample Vol. (mls)
Where: A = wgt (g) of dried residue + dish
B = wgt (g) of tared dish

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Template-Solids-r4 6/10/16

ALS Environmental

Tare Weights:

Instrument: ____ Mettler AE240 Analytical Balance
____ Mettler AG204 Analytical Balance

Analyst: KAW
Date: 8/2/16

Drying Tins: ____ Dish 104°C: ____
Crucible 550°C: ____ Dish 550°C: ____
Dish 180°C: X G/O Dishes: ____

	Weight	Actual
Class 1 Weights (s):	100.0000 g	99.9999 g
	____ g	____ g

ID Number	Weight	
14	83.0542	83.0540
WS	83.4656	83.4653
FN	82.0814	82.0812
VI	88.0379	88.0382
VT	71.5871	71.5869
F9	82.1495	82.1495
A8	85.8367	85.8368
SS	80.9164	80.9165
51	87.8572	87.8572
LA	88.1408	88.1407
WEI	83.6532	83.6532
T5	82.3672	82.3672

ID Number	Weight	
DW	84.1193	84.1193
BUD	83.3479	83.3478
W7	86.9547	86.9548
P1	80.9441	80.9441
A5	85.5812	85.5812
F	83.5150	83.5152
30	86.7354	86.7355
55	87.0345	87.0345
CV	79.4510	79.4513
AS	80.3252	80.3253
FG	81.7184	81.7182
64	85.7456	85.7453

ALS Environmental
1565 Jefferson Rd., Rochester, NY 14623

General Chemistry Analytical Run Cover Sheet

Analyst: KAW Date: 8/2/16

Analysis: Total Dissolved Solids Instrument: X M. Ohaus PA224C
_____ Mettler AG 204 Analytical Balance

Quality Control:

	Log Book #	Log Book Date	Stock Sol (m/Ls)	Stock Sol (mg/L)	Final Vol (mLs)	True Value (mg/L)
a) Standards Prep.:						
b) I/CCV Preparation:						
c) LCS Preparation:	WC161017A	7/19/2016				914
d) Matrix Spike Prep.:						

Instrument log filled in? (Y) (N)

Packages: Copy and attach LCS Preparation

Comments:

The weight loss between successive gross dry weights should not exceed 4% or 1.0 mg, whichever is less.

For calculations, used: ✓ lower ____ higher tare weight

As a rule, the lower of the successive dry weights is used to calculate the result.

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TITLE

7/19/16 KAW (A) TDS Reference

0.9140 g NaCl (WC126070E) diluted to 1000 mL volumetrically w/ DI. Store in plastic bottle @ 4°C. TV = 914 Exp: 7/19/17

7/19/16 (B) Phenol Color Reagent

Same as WC16P002E. Expires 8/2/16

7/20/16 KAW (C) TSS Reference

0.214 g Kaolin (WC149009A) diluted to 1000 g w/ DI. Store in plastic bottle @ 4°C. TV = 214 Exp: 7/20/17

7/19/16 fp (D) Color Reagent - TKN → 0.97 g nitroferricyanide (WC140155E)
145.5 g sodium salicylate (F2618)
881 g DI
- Stir until dissolved. Store at RT in amber. Expires. 8/19/16.

7/20 fp 7/20/16.

7/19/16 (E) Ascorbic Acid - TPO4 → Same as WC16 1016A. Exp. 7/27/16. (1 week)

7/21/16 GN (F) Phosphate Buffer - UV254

Add ~ 200 DI, 2.06 g dried KH_2PO_4 (WC 126186B) and 1.42 g dried Na_2HPO_4 (WC126292D) to a 500 mL vol flask, dissolved and bring to volume w/ DI. Store at 4°C for 1 week. Exp: 7/28/16

(G) 500 mg/L KHP Reference Stock UV254

In a 200 mL vol flask add ~ 100 mL phosphate buffer (WC16 1017F) and 0.2127 g dried KHP (82183) and bring to volume w/ the same phosphate buffer. Stir until dissolved. Store at 4°C for 1 week. Exp: 7/28/16

(H) 10 mg/L Spec Check - UV 254

In a 100 mL vol flask add ~ 50 mL phosphate buffer (WC16 1017F) and volumetrically pipet 2.0 mL KHP Reference (WC16 1017G). Bring to volume w/ same phosphate buffer. Make fresh daily.

855 of 877

Sign and date after each entry.

Analytical Results Summary

Instrument Name: R-Balance-18 **Analyst:** KWONG **Analysis Lot:** 508101 **Method/Testcode:** SM 2540 B-1997(2011)/Total Solid

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC?	Tier
RQ1609020-01	Solids, Total	MB		Water	-4.00 mg/L	100 mL	10 mg/L U	1		10			8/2/16 14:15	N	IV
RQ1609020-02	Solids, Total	LCS		Water	289.00 mg/L	100 mL	289 mg/L	1		10	96		8/2/16 14:15	N	IV
R1607964-001	Solids, Total	N/A		Water	410.00 mg/L	100 mL	410 mg/L	1		10			8/2/16 14:15	N	IV
RQ1609020-03	Solids, Total	DUP	R1607964-001	Water	403.00 mg/L	100 mL	403 mg/L	1		10		2	8/2/16 14:15	N	IV
R1607963-001	Solids, Total	N/A		Water	2065.00 mg/L	20 mL	2060 mg/L	1		50			8/2/16 14:15	N	IV
R1607963-010	Solids, Total	N/A		Water	864.00 mg/L	50 mL	864 mg/L	1		20			8/2/16 14:15	N	IV
R1607963-011	Solids, Total	N/A		Water	846.00 mg/L	50 mL	846 mg/L	1		20			8/2/16 14:15	N	IV
R1607963-018	Solids, Total	N/A		Water	932.00 mg/L	50 mL	932 mg/L	1		20			8/2/16 14:15	N	IV

Reviewed & Approved

By: [signature]

Date: 8/10/16

# indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

Analytical Results Summary

Instrument Name: R-Balance-18 **Analyst:** KWONG **Analysis Lot:** 508102 **Method/Testcode:** SM 2540 E-1997(2011)/TVS

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC?	Tier
RQ1609021-02	Solids, Total Volatile	MB		Water	3.00 mg/L	100 mL	10 mg/L U	1		10			8/2/16 14:15	N	IV
RQ1609021-03	Solids, Total Volatile	LCS		Water	192.00 mg/L	100 mL	192 mg/L	1		10	96		8/2/16 14:15	N	IV
R1607964-001	Solids, Total Volatile	N/A		Water	90.00 mg/L	100 mL	90 mg/L	1		10			8/2/16 14:15	N	IV
RQ1609021-01	Solids, Total Volatile	DUP	R1607964-001	Water	88.00 mg/L	100 mL	88 mg/L	1		10		2	8/2/16 14:15	N	IV

Reviewed & Approved

By: [signature]

Date: 8/10/16

# indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

Analyte: Total Solids (TS)
Method SM20 2540B
Analytes: Volatile Solids
Method : EPA-600 160.4/SM 2540E

Analyst: KAW
Pipet: NA
Date: 8/2/16
Time: 14:15
*Lower tare weight used unless marked: ____

TS x
TVS x

LCS lot# **WC161018E** Filter ID: NA Balance ID: R-18 Oven ID: **MET**
TS TV: **300** TVS TV: 200
Thermolyne F48025-60 Muffle Furnace

Volatile Solids: VS = (A - D)*1,000,000 / Sample Vol.(mLs)
FVS = (D - B)*1,000,000 / Sample Vol.(mLs)

Total Solids TS = (A-B)*1,000,000 /Sample Vol. (mLs)

Where: A = wgt (g) of dried residue + dish
B = wgt (g) of tared dish
C = wgt (g) of wet sample + dish
D = wgt (g) of residue + dish after ign. @550 C.

	Misc.	Order #	Dish ID	Sample Vol. (mLs)	Used all	Vol. Conf	Before Ignition (g)		After Ignition (g)		Volatile Solids (mg/L)	Total Solids (mg/L)
1	TVS	MB	74	100		X	C)		Dry wgt (A):	85.2125	3.00	-4.00
							B)	85.2128	Dry wgt (A):	85.2124		
							A-B=	-0.0004	Dry wgt (A):			
							D-B=		550 wgt (D):	85.2121		
									A-D=	0.0003		
2	TVS	LCS	UI	100		X	C)		Dry wgt (A):	87.6519	192.00	289.00
							B)	87.6228	Dry wgt (A):	87.6517		
							A-B=	0.0289	Dry wgt (A):			
							D-B=		550 wgt (D):	87.6325		
									A-D=	0.0192		
3	TVS	R1607964-001	TIE	100		X	C)		Dry wgt (A):	80.9596	90.00	410.00
							B)	80.9172	Dry wgt (A):	80.9582		
							A-B=	0.0410	Dry wgt (A):			
							D-B=		550 wgt (D):	80.9492		
									A-D=	0.0090		
4	TVS	7964-001 DUP	E1	100		X	C)		Dry wgt (A):	81.9768	88.00	403.00
							B)	81.9359	Dry wgt (A):	81.9762		
							A-B=	0.0403	Dry wgt (A):			
							D-B=		550 wgt (D):	81.9674		
									A-D=	0.0088		
5	TS	R1607963-001	N1	20		X	C)		Dry wgt (A):	91.1557		2065.00
							B)	91.1144	Dry wgt (A):	91.1560		
							A-B=	0.0413	Dry wgt (A):			
							D-B=		550 wgt (D):			
									A-D=	91.1557		
6	TS	R1607963-010	MC	50		X	C)		Dry wgt (A):	96.5178		864.00
							B)	96.4741	Dry wgt (A):	96.5173		
							A-B=	0.0432	Dry wgt (A):			
							D-B=		550 wgt (D):			
									A-D=	96.5173		
7	TS	R1607963-011	C7	50		X	C)		Dry wgt (A):	89.7897		846.00
							B)	89.7472	Dry wgt (A):	89.7895		
							A-B=	0.0423	Dry wgt (A):			
							D-B=		550 wgt (D):			
									A-D=	89.7895		
8	TS	R1607963-018	D0	50		X	C)		Dry wgt (A):	87.6874		932.00
							B)	87.6397	Dry wgt (A):	87.6863		
							A-B=	0.0466	Dry wgt (A):			
							D-B=		550 wgt (D):			
									A-D=	87.6863		

Tare Weights:

Instrument: ____ Mettler AE240 Analytical Balance
____ Mettler AG204 Analytical Balance

Analyst: KAW
Date: 8/2/2016

Drying Tins: ____ Dish 104°C: X
Crucible 550°C: ____ Dish 550°C: X
Dish 180°C: ____ G/O Dishes: ____

	Weight	Actual
Class 1 Weights (s):	100 g	100.0003 g
	____ g	____ g

ID Number	Weight	
74	85.2128	85.2128
UI	87.6228	87.6228
TIE	80.9172	80.9174
E1	81.9359	81.9361

ID Number	Weight	
N1	91.1144	91.1145
MC	96.4745	96.4741
C7	89.7472	89.7472
D0	87.6397	87.6398

ALS Environmental
1565 Jefferson Rd., Rochester, NY 14623

General Chemistry Analytical Run Cover Sheet

Analyst: KAW Date: 8/2/16

Analysis: Total Solids
Total Volatile Solids

Instrument: X Ohaus PA224C
_____ Mettler AG 204 Analytical Balance

Quality Control:

	Log Book #	Log Book Date	Stock Sol (m/Ls)	Stock Sol (mg/L)	TS True Value (mg/L)	TVS True Value (mg/L)
a) Standards Prep.:	NA					
b) I/CCV Preparation:	NA					
c) LCS Preparation:	WC161018E	7/25/2016			300	200

Instrument log filled in? (Y) (N)

Packages: Copy and attach LCS Preparation

Comments:

The weight loss between successive gross dry weights should not exceed 4% or 1.0 mg, whichever is less.

For Total Solids calculations, used: ____lower ____higher tare weight

As a rule, the lower of the successive dry weights is used to calculate the result.

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TITLE

7/21/16 (A) Cr^{6+} Phosphate Buffer
MDS

Dissolved 87.09 g K_2HPO_4 (WC1261166F) and 68.04 g KH_2PO_4 (WC1261866B) in 700 mL DI in 1 L volumetric flask then brought to volume with DI

(B) Cr^{6+} Digestion Solution
Dissolved 20 g NaOH pellets ~~and~~ (WC1491778) and 30 g Na_2CO_3 (WC1227758) in DI in a 1 L volumetric MDS 7/21/16 flask and brought to volume w/ DI
Exp: 8/21/16
GN 7/22/16

7/22/16 (C) 10 mg/L Spec Check - UV 254
GN In a 100 ml flask add ~ 50 ml phosphate buffer (WC161017F) and volumetrically pipet 2 ml of KHP (WC1610176 and bring to volume w/ same phosphate buffer. Make fresh daily

7/22/16 (D) PDUM - TKN
GN - Same as WC161016I using TKN digest reagent 174179.
Exp 8/11/16

7/25/16 (E) TS/TVS Reference
MDS 0.3002 g KHP (82183) diluted to volume with DI in 1 L volumetric flask Exp: 7/25/17

7/26/16 (F) Hydrolysate - TKN → Same as WC161003A. Prepare fresh each run.
GN

(G) Post Digestion Matrix Match (Pomm) - TKN
To a 2 L volumetric flask add 500 mL TKN digest reagent (174312). Bring to volume w/ DI + mix well. Pour off and discard 130 mL. Bring back to volume + mix well. Store @ RT in amber. Expires: 8/25/15.

7/26/16 (H) 0.00564 N Potassium Iodate Titrant - Chlorine Demand
KM - Same as WC161015E. Prepare fresh each run & standardize w/ use.

7/26/16 (I) 10% Phosphoric Acid
BB Same as WC161004B Expires 7/26/17

Analytical Results Summary

Instrument Name: R-Balance-18 **Analyst:** KWONG **Analysis Lot:** 508285 **Method/Testcode:** SM 2540 D-1997(2011)/TSS

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC?	Tier
RQ1609076-01	Solids, Total Suspended (TSS)	MB		Water	0.00 mg/L	1000 mL	1.0 mg/L U	1		1.0			8/3/16 13:55	N	I
RQ1609076-02	Solids, Total Suspended (TSS)	LCS		Water	211.00 mg/L	100 mL	211 mg/L	1		10	99		8/3/16 13:55	N	I
R1607823-001	Solids, Total Suspended (TSS)	N/A		Water	135.19 mg/L	54 mL	135 mg/L	1		19			8/3/16 13:55	N	I
RQ1609076-03	Solids, Total Suspended (TSS)	DUP	R1607823-001	Water	135.19 mg/L	54 mL	135 mg/L	1		19		<1	8/3/16 13:55	N	I
R1607823-002	Solids, Total Suspended (TSS)	N/A		Water	4.40 mg/L	1000 mL	4.4 mg/L	1		1.0			8/3/16 13:55	N	I
R1607825-001	Solids, Total Suspended (TSS)	N/A		Water	82.00 mg/L	100 mL	82 mg/L	1		10			8/3/16 13:55	N	I
R1607825-002	Solids, Total Suspended (TSS)	N/A		Water	6.97 mg/L	832 mL	7.0 mg/L	1		1.2			8/3/16 13:55	N	I
R1607826-001	Solids, Total Suspended (TSS)	N/A		Water	98.84 mg/L	86 mL	99 mg/L	1		12			8/3/16 13:55	N	I
R1607826-002	Solids, Total Suspended (TSS)	N/A		Water	0.60 mg/L	1000 mL	1.0 mg/L U	1		1.0			8/3/16 13:55	N	I
R1607827-001	Solids, Total Suspended (TSS)	N/A		Water	475.00 mg/L	28 mL	475 mg/L	1		36			8/3/16 13:55	N	I
RQ1609076-04	Solids, Total Suspended (TSS)	DUP	R1607827-001	Water	510.71 mg/L	28 mL	511 mg/L	1		36		7	8/3/16 13:55	N	I
R1607827-002	Solids, Total Suspended (TSS)	N/A		Water	4.56 mg/L	570 mL	4.6 mg/L	1		1.8			8/3/16 13:55	N	I
R1607828-001	Solids, Total Suspended (TSS)	N/A		Water	137.50 mg/L	88 mL	138 mg/L	1		11			8/3/16 13:55	N	I
R1607828-002	Solids, Total Suspended (TSS)	N/A		Water	51.60 mg/L	250 mL	51.6 mg/L	1		4.0			8/3/16 13:55	N	I
R1607892-001	Solids, Total Suspended (TSS)	N/A		Water	84.21 mg/L	76 mL	84 mg/L	1		13			8/3/16 13:55	N	I
R1607896-001	Solids, Total Suspended (TSS)	N/A		Water	116.67 mg/L	72 mL	117 mg/L	1		14			8/3/16 13:55	N	I
R1607896-002	Solids, Total Suspended (TSS)	N/A		Water	6.87 mg/L	597 mL	6.9 mg/L	1		1.7			8/3/16 13:55	N	I
R1607896-003	Solids, Total Suspended (TSS)	N/A		Water	94.00 mg/L	100 mL	94 mg/L	1		10			8/3/16 13:55	N	I
R1607896-004	Solids, Total Suspended (TSS)	N/A		Water	157.14 mg/L	84 mL	157 mg/L	1		12			8/3/16 13:55	N	I
R1607896-005	Solids, Total Suspended (TSS)	N/A		Water	163.64 mg/L	55 mL	164 mg/L	1		18			8/3/16 13:55	N	I
R1607896-006	Solids, Total Suspended (TSS)	N/A		Water	631.82 mg/L	22 mL	632 mg/L	1		45			8/3/16 13:55	N	I
R1607896-007	Solids, Total Suspended (TSS)	N/A		Water	221.43 mg/L	42 mL	221 mg/L	1		24			8/3/16 13:55	N	I
R1607963-001	Solids, Total Suspended (TSS)	N/A		Water	4.54 mg/L	727 mL	4.5 mg/L	1		1.4			8/3/16 13:55	N	IV

# indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

Reviewed & Approved
By: [signature]
Date: 8/10/16

Analytical Results Summary

Instrument Name: R-Balance-18 **Analyst:** KWONG **Analysis Lot:** 508285 **Method/Testcode:** SM 2540 D-1997(2011)/TSS

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC?	Tier
R1607963-010	Solids, Total Suspended (TSS)	N/A		Water	7.49 mg/L	748 mL	7.5 mg/L	1		1.3			8/3/16 13:55	N	IV

# indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

Analyte: Total Suspended Solids (TSS) Analyst: KAW Date: 8/3/16
Method: SM 2540D-1997(2011) Pipet: NA Time: 13:55
Analyte: Total Dissolved Solids (TDS)
Method: SM 2540C-1997(2011) **TS** ____ **TDS** ____ **TSS** X
Analyte: Total Solids (TS)
Method SM 2540B-1997(2011) LCS Lot: WC161019E TV: **214** Balance ID: **R-BALANCE-18**
Filter Lot: **WC161009D** Oven ID: MET *Lower tare weight used unless marked: ____

	Misc.	Order #	Dish ID	Sample Vol. (mLs)	Used all	Vol. Conf.	Raw Data				Total Solids (mg/L)
1		MB	1	1000		X	Gross (A) 1:	0.0970	Gross (A) 3:		0.00
							Gross (A) 2:	0.0970	#DIV/0!		
							B)	0.0970	A-B=	0.0000	
2		LCS	2	100		X	Gross (A) 1:	0.1190	Gross (A) 3:		211.00
							Gross (A) 2:	0.1188			
							B)	0.0977	A-B=	0.0211	
3	STOPPED FILTERIN G	R1607823-001	3	54		X	Gross (A) 1:	0.1058	Gross (A) 3:		135.19
							Gross (A) 2:	0.1055			
							B)	0.0982	A-B=	0.0073	
4		7823-001 DUP	4	54		X	Gross (A) 1:	0.1049	Gross (A) 3:		135.19
							Gross (A) 2:	0.1044			
							B)	0.0971	A-B=	0.0073	
5		R1607823-002	5	1000	X	X	Gross (A) 1:	0.1026	Gross (A) 3:		4.40
							Gross (A) 2:	0.1022			
							B)	0.0978	A-B=	0.0044	
6	STOPPED FILTERIN G	R1607825-001	6	100		X	Gross (A) 1:	0.1069	Gross (A) 3:		82.00
							Gross (A) 2:	0.1067			
							B)	0.0985	A-B=	0.0082	
7	STOPPED FILTERIN G	R1607825-002	7	832		X	Gross (A) 1:	0.1009	Gross (A) 3:		6.97
							Gross (A) 2:	0.1010			
							B)	0.0951	A-B=	0.0058	
8	STOPPED FILTERIN G	R1607826-001	8	86		X	Gross (A) 1:	0.1047	Gross (A) 3:		98.84
							Gross (A) 2:	0.1043			
							B)	0.0958	A-B=	0.0085	
9		R1607826-002	9	1000	X	X	Gross (A) 1:	0.0979	Gross (A) 3:		0.60
							Gross (A) 2:	0.0979			
							B)	0.0973	A-B=	0.0006	
10	8.3870968	R1607827-001	10	28		X	Gross (A) 1:	0.1111	Gross (A) 3:	0.1089	475.00
							Gross (A) 2:	0.1098			
							B)	0.0956	A-B=	0.0133	
11	8.9171975	7827-001 DUP	11	28		X	Gross (A) 1:	0.1119	Gross (A) 3:	0.1105	510.71
							Gross (A) 2:	0.1105			
							B)	0.0962	A-B=	0.0143	
12		R1607827-002	12	570	X	X	Gross (A) 1:	0.0983	Gross (A) 3:		4.56
							Gross (A) 2:	0.0983			
							B)	0.0957	A-B=	0.0026	
13		R1607828-001	13	88		X	Gross (A) 1:	0.1088	Gross (A) 3:		137.50
							Gross (A) 2:	0.1084			
							B)	0.0963	A-B=	0.0121	

TS, TDS, TSS mg/L = (A-B)*1,000,000 /Sample Vol. (mls)
Where: A = wgt (g) of dried residue + dish
B = wgt (g) of tared dish

Analyte: Total Suspended Solids (TSS) Analyst: KAW Date: 8/3/16
Method: SM 2540D-1997(2011) Pipet: NA Time: 13:55
Analyte: Total Dissolved Solids (TDS)
Method: SM 2540C-1997(2011) TS ____ TDS ____ TSS X
Analyte: Total Solids (TS)
Method SM 2540B-1997(2011) LCS Lot: WC161019E TV: **214** Balance ID: **R-BALANCE-18**
Filter Lot: **WC161009D** Oven ID: MET *Lower tare weight used unless marked: ____

	Misc.	Order #	Dish ID	Sample Vol. (mLs)	Used all	Vol. Conf.	Raw Data				Total Solids (mg/L)
14	STOPPED FILTERING	R1607828-002	14	250		X	Gross (A) 1:	0.1096	Gross (A) 3:		51.60
							Gross (A) 2:	0.1092			
							B)	0.0963	A-B=	0.0129	
15	STOPPED FILTERING	R1607892-001	15	76		X	Gross (A) 1:	0.1992	Gross (A) 3:		84.21
							Gross (A) 2:	0.1990			
							B)	0.1926	A-B=	0.0064	
16	STOPPED FILTERING	R1607896-001	16	72		X	Gross (A) 1:	0.1052	Gross (A) 3:		116.67
							Gross (A) 2:	0.1050			
							B)	0.0966	A-B=	0.0084	
17	STOPPED FILTERING	R1607896-002	17	597		X	Gross (A) 1:	0.1002	Gross (A) 3:		6.87
							Gross (A) 2:	0.1002			
							B)	0.0961	A-B=	0.0041	
18	STOPPED FILTERING	R1607896-003	18	100		X	Gross (A) 1:	0.1065	Gross (A) 3:		94.00
							Gross (A) 2:	0.1060			
							B)	0.0966	A-B=	0.0094	
19	STOPPED FILTERING	R1607896-004	19	84		X	Gross (A) 1:	0.1091	Gross (A) 3:		157.14
							Gross (A) 2:	0.1086			
							B)	0.0954	A-B=	0.0132	
20	STOPPED FILTERING	R1607896-005	20	55		X	Gross (A) 1:	0.1066	Gross (A) 3:		163.64
							Gross (A) 2:	0.1061			
							B)	0.0971	A-B=	0.0090	
21	STOPPED FILTERING	R1607896-006	21	22		X	Gross (A) 1:	0.1112	Gross (A) 3:		631.82
							Gross (A) 2:	0.1107			
							B)	0.0968	A-B=	0.0139	
22	STOPPED FILTERING	R1607896-007	22	42		X	Gross (A) 1:	0.1068	Gross (A) 3:		221.43
							Gross (A) 2:	0.1064			
							B)	0.0971	A-B=	0.0093	
23		R1607963-001	23	727	X	X	Gross (A) 1:	0.1006	Gross (A) 3:		4.54
							Gross (A) 2:	0.1006			
							B)	0.0973	A-B=	0.0033	
24		R1607963-010	24	748	X	X	Gross (A) 1:	0.1018	Gross (A) 3:		7.49
							Gross (A) 2:	0.1013			
							B)	0.0957	A-B=	0.0056	

TS, TDS, TSS mg/L = (A-B)*1,000,000 /Sample Vol. (mls)
Where: A = wgt (g) of dried residue + dish
B = wgt (g) of tared dish

ALS Environmental

Tare Weights:

Instrument: ____ Mettler AE240 Analytical Balance
____ Mettler AG204 Analytical Balance

Analyst: KAW
Date: 8/3/16

Drying Tins: X
Crucible 550°C: ____
Dish 180°C: ____
Dish 104°C: ____
Dish 550°C: ____
G/O Dishes: ____

	Weight	Actual
Class 1 Weights (s):	1.0000 g	0.9998 g
	____ g	____ g

ID Number	Weight	
1	0.0971	0.0970
2	0.0980	0.0977
3	0.0983	0.0982
4	0.0973	0.0971
5	0.0979	0.0978
6	0.0985	0.0987
7	0.0951	0.0952
8	0.0958	0.0961
9	0.0973	0.0973
10	0.0956	0.0956
11	0.0963	0.0962
12	0.0958	0.0957

ID Number	Weight	
13	0.0965	0.0963
14	0.0963	0.0964
15	0.1926	0.1926
16	0.0967	0.0966
17	0.0962	0.0961
18	0.0966	0.0966
19	0.0954	0.0955
20	0.0971	0.0972
21	0.0968	0.0968
22	0.0971	0.0972
23	0.0973	0.0973
24	0.0959	0.0957

ALS Environmental
1565 Jefferson Rd., Rochester, NY 14623

General Chemistry Analytical Run Cover Sheet

Analyst: KAW Date: 8/3/16

Analysis: Total Suspended Solids Instrument: ✗ I Ohaus PA224C
_____ Mettler AG 204 Analytical Balance

Quality Control:

	Log Book #	Log Book Date	Stock Sol (m/Ls)	Stock Sol (mg/L)	Final Vol (mLs)	True Value (mg/L)
a) Standards Prep.:						
b) I/CCV Preparation:						
c) LCS Preparation:	WC161019E	7/29/2016				214
d) Matrix Spike Prep.:						

Instrument log filled in? (Y)(N)

Packages: Copy and attach LCS Preparation

Comments:

The difference between successive gross dry weights should be less than 4% of the previous weight or 0.5 mg, whichever is less.

As a rule, both the lower tare weight and the lower of the successive dry weights are used for calculation.

p:\lotus\123r22\greg\forms\cover.tss

WC161

TITLE

7/27/16 (A) Sulfide Reference
PD
To a tared amber jar add ~0.4g $Na_2S \cdot 9H_2O$ (WC1491130) Add 100mL degassed DI. Stir until dissolved Store @ 4°C for 2 weeks Expires: 8/10/16

7/27/16 (B) Hypochlorite - TKN → Same as WC161003A. Prepare fresh each run.
PD

(a) Post Digestion Matrix Match (PDMM) - TKN
~~To a~~ Same as WC161018G Expires 8/28/16.

7/28/16 (D) Fe^{2+} 2% HCl Solution
MDS

To a 2L volumetric flask added 40mL conc. HCl and diluted to volume with UPDI. Exp: 7/28/17

7/29/16 (E) TSS Reference
KAW
0.2142g Kaolin (WC1490009A) diluted to 1000g w/ DI. Store in plastic bottle @ 4°C. TV = 214 Exp: 7/29/17

7/29/16 (F) PDMM - TKN
GN
- same as WC161018G using TKN Digest Reagent 174476. Exp 8/28/16

Analytical Results Summary

Instrument Name: R-Balance-18 **Analyst:** KWONG **Analysis Lot:** 508428 **Method/Testcode:** SM 2540 D-1997(2011)/TSS

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC?	Tier
RQ1609106-01	Solids, Total Suspended (TSS)	MB		Water	9.99999999997669E	1000 mL	1.0 mg/L U	1		1.0			8/4/16 13:00	N	IV
RQ1609106-02	Solids, Total Suspended (TSS)	LCS		Water	213.00 mg/L	100 mL	213 mg/L	1		10	99		8/4/16 13:00	N	IV
R1607963-011	Solids, Total Suspended (TSS)	N/A		Water	9.13 mg/L	679 mL	9.1 mg/L	1		1.5			8/4/16 13:00	N	IV
R1607963-018	Solids, Total Suspended (TSS)	N/A		Water	14.42 mg/L	721 mL	14.4 mg/L	1		1.4			8/4/16 13:00	N	IV
R1607875-001	Solids, Total Suspended (TSS)	N/A		Water	136.67 mg/L	30 mL	137 mg/L	1		33			8/4/16 13:00	N	II
R1607875-002	Solids, Total Suspended (TSS)	N/A		Water	2988.89 mg/L	9 mL	2990 mg/L	1		110			8/4/16 13:00	N	II
RQ1609106-03	Solids, Total Suspended (TSS)	DUP	R1607875-002	Water	2866.67 mg/L	9 mL	2870 mg/L	1		110		4	8/4/16 13:00	N	II
R1607875-003	Solids, Total Suspended (TSS)	N/A		Water	5.27 mg/L	835 mL	5.3 mg/L	1		1.2			8/4/16 13:00	N	II
R1607889-001	Solids, Total Suspended (TSS)	N/A		Water	0.10 mg/L	1000 mL	1.0 mg/L U	1		1.0			8/4/16 13:00	N	I
R1607891-001	Solids, Total Suspended (TSS)	N/A		Water	247.06 mg/L	34 mL	247 mg/L	1		29			8/4/16 13:00	N	II
R1607891-003	Solids, Total Suspended (TSS)	N/A		Water	3.66 mg/L	875 mL	3.7 mg/L	1		1.1			8/4/16 13:00	N	II
R1607893-001	Solids, Total Suspended (TSS)	N/A		Water	68.46 mg/L	130 mL	68.5 mg/L	1		7.7			8/4/16 13:00	N	I
RQ1609106-04	Solids, Total Suspended (TSS)	DUP	R1607893-001	Water	65.38 mg/L	130 mL	65.4 mg/L	1		7.7		5	8/4/16 13:00	N	I
R1607912-001	Solids, Total Suspended (TSS)	N/A		Water	107.69 mg/L	65 mL	108 mg/L	1		15			8/4/16 13:00	N	I
R1607912-002	Solids, Total Suspended (TSS)	N/A		Water	204.65 mg/L	86 mL	205 mg/L	1		12			8/4/16 13:00	N	I
R1607927-001	Solids, Total Suspended (TSS)	N/A		Water	136.23 mg/L	69 mL	136 mg/L	1		14			8/4/16 13:00	N	I
R1607934-001	Solids, Total Suspended (TSS)	N/A		Water	283.73 mg/L	209 mL	284 mg/L	1		4.8			8/4/16 13:00	N	II
R1607934-002	Solids, Total Suspended (TSS)	N/A		Water	246.00 mg/L	100 mL	246 mg/L	1		10			8/4/16 13:00	N	II
R1607949-001	Solids, Total Suspended (TSS)	N/A		Water	16.85 mg/L	558 mL	16.8 mg/L	1		1.8			8/4/16 13:00	N	II
R1607949-002	Solids, Total Suspended (TSS)	N/A		Water	17.07 mg/L	615 mL	17.1 mg/L	1		1.6			8/4/16 13:00	N	II
R1607949-003	Solids, Total Suspended (TSS)	N/A		Water	13.50 mg/L	1000 mL	13.5 mg/L	1		1.0			8/4/16 13:00	N	II
R1607949-004	Solids, Total Suspended (TSS)	N/A		Water	10.80 mg/L	1000 mL	10.8 mg/L	1		1.0			8/4/16 13:00	N	II
R1608000-001	Solids, Total Suspended (TSS)	N/A		Water	12.80 mg/L	1000 mL	12.8 mg/L	1		1.0			8/4/16 13:00	N	II

# indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

Reviewed & Approved
By: [signature]
Date: 8/10/16

Analytical Results Summary

Instrument Name: R-Balance-18 **Analyst:** KWONG **Analysis Lot:** 508428 **Method/Testcode:** SM 2540 D-1997(2011)/TSS

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC?	Tier
R1608000-005	Solids, Total Suspended (TSS)	N/A		Water	3.40 mg/L	1000 mL	3.4 mg/L	1		1.0			8/4/16 13:00	N	II

# indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

Analytical Results Summary

Instrument Name: R-Balance-18 **Analyst:** KWONG **Analysis Lot:** 508429 **Method/Testcode:** SM 2540 E-1997(2011)/TSS Vol

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC?	Tier
RQ1609107-02	Solids, Total Suspended, Volatile	MB		Water	9.99999999997669E-02	1000 mL	1.0 mg/L U	1		1.0			8/4/16 13:00	N	II
R1607875-002	Solids, Total Suspended, Volatile	N/A		Water	2633.33 mg/L	9 mL	2630 mg/L	1		110			8/4/16 13:00	N	II
RQ1609107-01	Solids, Total Suspended, Volatile	DUP	R1607875-002	Water	2511.11 mg/L	9 mL	2510 mg/L	1		110		5	8/4/16 13:00	N	II

Reviewed & Approved
By: [signature]
Date: 8/10/16

# indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

Analyte: Total Suspended Solids (TSS) Analyst: KAW Date: 8/4/16
Method: SM20 2540D Pipet: NA Time: 13:00
Analytes: Volatile/Fixed Solids *Lower tare weight used unless marked: ___
Method : EPA-600 160.4/SM 2540E TSS x VSS x FSS x

LCS lot# **WC161019E** Filter ID: 00014/WC161009I Balance ID: R-18 Oven ID: **MET**
TS TV: **214** TVS TV: **NA** **Thermolyne F48025-60 Muffle Furnace**

Volatile Solids: VS = (A - D)*1,000,000 / Sample Vol.(mLs)
FVS = (D - B)*1,000,000 / Sample Vol.(mLs)

Total Solids TSS = (A-B)*1,000,000 / Sample Vol. (mLs)

Where: A = wgt (g) of dried residue + dish
B = wgt (g) of tared dish
C = wgt (g) of wet sample + dish
D = wgt (g) of residue + dish after ign. @ 550°C

	Misc.	Order #	Dish ID	Sample Vol. (mLs)	Used all	Vol. Conf	Before Ignition (g)		After Ignition (g)		Volatile / Fixed Solids (mg/L)	Total Solids (mg/L)
1	VSS	MB	F1	1000		X	C)		Dry wgt (A):	28.7602	0.10	0.10
							B)	28.7601	Dry wgt (A):	28.7605		
							A-B=	0.0001	Dry wgt (A):			
							D-B=		550 wgt (D):	28.7601		
									A-D=	0.0001		
2		LCS	BXJ8I	100		X	C)		Dry wgt (A):	0.1325		213.00
							B)	0.1110	Dry wgt (A):	0.1323		
							A-B=	0.0213	Dry wgt (A):			
							D-B=		550 wgt (D):			
									A-D=	0.1323		
3		R1607963-011	BXJAP	679	X	X	C)		Dry wgt (A):	0.1220		9.13
							B)	0.1154	Dry wgt (A):	0.1216		
							A-B=	0.0062	Dry wgt (A):			
							D-B=		550 wgt (D):			
									A-D=	0.1216		
4		R1607963-018	BXJAQ	721	X	X	C)		Dry wgt (A):	0.1278		14.42
							B)	0.1169	Dry wgt (A):	0.1273		
							A-B=	0.0104	Dry wgt (A):			
							D-B=		550 wgt (D):			
									A-D=	0.1273		
5	STOPPED FILTERIN G	R1607875-001	BXJAR	30		X	C)		Dry wgt (A):	0.1151		136.67
							B)	0.1110	Dry wgt (A):	0.1152		
							A-B=	0.0041	Dry wgt (A):			
							D-B=		550 wgt (D):			
									A-D=	0.1151		
6	VSS	R1607875-002	L1	9		X	C)		Dry wgt (A):	25.7217	2633.33	2988.89
							B)	25.6946	Dry wgt (A):	25.7215		
							A-B=	0.0269	Dry wgt (A):			
							D-B=		550 wgt (D):	25.6978		
									A-D=	0.0237		
7	VSS	7875-002 DUP	Z1	9		X	C)		Dry wgt (A):	26.7942	2511.11	2866.67
							B)	26.7680	Dry wgt (A):	26.7938		
							A-B=	0.0258	Dry wgt (A):			
							D-B=		550 wgt (D):	26.7712		
									A-D=	0.0226		
8	STOPPED FILTERIN G	R1607875-003	BXJAS	835		X	C)		Dry wgt (A):	0.1152		5.27
							B)	0.1108	Dry wgt (A):	0.1152		
							A-B=	0.0044	Dry wgt (A):			
							D-B=		550 wgt (D):			
									A-D=	0.1152		

Analyte: Total Suspended Solids (TSS) Analyst: KAW Date: 8/4/16
Method: SM20 2540D Pipet: NA Time: 13:00
Analytes: Volatile/Fixed Solids *Lower tare weight used unless marked: ___
Method : EPA-600 160.4/SM 2540E TSS x VSS x FSS x

LCS lot# WC161019E Filter ID: 500014/WC161009D Balance ID: R-18 Oven ID: MET
TS TV: 214 TVS TV: NA **Thermolyne F48025-60 Muffle Furnace**

Volatile Solids: VS = (A - D)*1,000,000 / Sample Vol.(mLs)
FVS = (D - B)*1,000,000 / Sample Vol.(mLs)

Total Solids TSS = (A-B)*1,000,000 / Sample Vol. (mLs)

Where: A = wgt (g) of dried residue + dish
B = wgt (g) of tared dish
C = wgt (g) of wet sample + dish
D = wgt (g) of residue + dish after ign. @ 550°C

	Misc.	Order #	Dish ID	Sample Vol. (mLs)	Used all	Vol. Conf	Before Ignition (g)		After Ignition (g)		Volatile / Fixed Solids (mg/L)	Total Solids (mg/L)
9		R1607889-001	BXJAT	1000	X	X	C)		Dry wgt (A):	0.1176		0.10
							B)	0.1175	Dry wgt (A):	0.1178		
							A-B=	0.0001	Dry wgt (A):			
							D-B=		550 wgt (D):			
									A-D=	0.1176		
10	STOPPED FILTERING	R1607891-001	BXJAU	34		X	C)		Dry wgt (A):	0.1259		247.06
							B)	0.1175	Dry wgt (A):	0.1261		
							A-B=	0.0084	Dry wgt (A):			
							D-B=		550 wgt (D):			
									A-D=	0.1259		
11	STOPPED FILTERING	R1607891-003	BXJAV	875		X	C)		Dry wgt (A):	0.1179		3.66
							B)	0.1147	Dry wgt (A):	0.1180		
							A-B=	0.0032	Dry wgt (A):			
							D-B=		550 wgt (D):			
									A-D=	0.1179		
12	STOPPED FILTERING	R1607893-001	BXJAW	130		X	C)		Dry wgt (A):	0.1259		68.46
							B)	0.1170	Dry wgt (A):	0.1263		
							A-B=	0.0089	Dry wgt (A):			
							D-B=		550 wgt (D):			
									A-D=	0.1259		
13		7893-001 DUP	BXJAX	130		X	C)		Dry wgt (A):	0.1188		65.38
							B)	0.1103	Dry wgt (A):	0.1189		
							A-B=	0.0085	Dry wgt (A):			
							D-B=		550 wgt (D):			
									A-D=	0.1188		
14	STOPPED FILTERING	R1607912-001	BXJAY	65		X	C)		Dry wgt (A):	0.1250		107.69
							B)	0.1180	Dry wgt (A):	0.1251		
							A-B=	0.0070	Dry wgt (A):			
							D-B=		550 wgt (D):			
									A-D=	0.1250		
15	STOPPED FILTERING	R1607912-002	BXJAZ	86		X	C)		Dry wgt (A):	0.1328		204.65
							B)	0.1152	Dry wgt (A):	0.1328		
							A-B=	0.0176	Dry wgt (A):			
							D-B=		550 wgt (D):			
									A-D=	0.1328		
16	STOPPED FILTERING	R1607927-001	BXJB0	69		X	C)		Dry wgt (A):	0.1241		136.23
							B)	0.1147	Dry wgt (A):	0.1241		
							A-B=	0.0094	Dry wgt (A):			
							D-B=		550 wgt (D):			
									A-D=	0.1241		

Analyte: Total Suspended Solids (TSS) Analyst: KAW Date: 8/4/16
Method: SM20 2540D Pipet: NA Time: 13:00
Analytes: Volatile/Fixed Solids *Lower tare weight used unless marked: ___
Method : EPA-600 160.4/SM 2540E TSS x VSS x FSS x

LCS lot# WC161019E Filter ID: 300014/WC161009D Balance ID: R-18 Oven ID: MET
TS TV: 214 TVS TV: NA **Thermolyne F48025-60 Muffle Furnace**

Volatile Solids: VS = (A - D)*1,000,000 / Sample Vol.(mLs)
FVS = (D - B)*1,000,000 / Sample Vol.(mLs)

Total Solids TSS = (A-B)*1,000,000 / Sample Vol. (mLs)

Where: A = wgt (g) of dried residue + dish
B = wgt (g) of tared dish
C = wgt (g) of wet sample + dish
D = wgt (g) of residue + dish after ign. @ 550°C

	Misc.	Order #	Dish ID	Sample Vol. (mLs)	Used all	Vol. Conf	Before Ignition (g)		After Ignition (g)		Volatile / Fixed Solids (mg/L)	Total Solids (mg/L)
17	STOPPED FILTERING	R1607934-001	BXJB1	209		X	C)		Dry wgt (A):	0.1703		283.73
							B)	0.1107	Dry wgt (A):	0.1700		
							A-B=	0.0593	Dry wgt (A):			
							D-B=		550 wgt (D):			
									A-D=	0.1700		
18	STOPPED FILTERING	R1607934-002	BXJB2	100		X	C)		Dry wgt (A):	0.1413		246.00
							B)	0.1165	Dry wgt (A):	0.1411		
							A-B=	0.0246	Dry wgt (A):			
							D-B=		550 wgt (D):			
									A-D=	0.1411		
19		R1607949-001	BXJB3	558		X	C)		Dry wgt (A):	0.1203		16.85
							B)	0.1109	Dry wgt (A):	0.1205		
							A-B=	0.0094	Dry wgt (A):			
							D-B=		550 wgt (D):			
									A-D=	0.1203		
20		R1607949-002	BXJB4	615		X	C)		Dry wgt (A):	0.1293		17.07
							B)	0.1186	Dry wgt (A):	0.1291		
							A-B=	0.0105	Dry wgt (A):			
							D-B=		550 wgt (D):			
									A-D=	0.1291		
21		R1607949-003	BXJB5	1000	X	X	C)		Dry wgt (A):	0.1313		13.50
							B)	0.1177	Dry wgt (A):	0.1312		
							A-B=	0.0135	Dry wgt (A):			
							D-B=		550 wgt (D):			
									A-D=	0.1312		
22		R1607949-004	BXJB6	1000	X	X	C)		Dry wgt (A):	0.1274		10.80
							B)	0.1166	Dry wgt (A):	0.1275		
							A-B=	0.0108	Dry wgt (A):			
							D-B=		550 wgt (D):			
									A-D=	0.1274		
23		R1608000-001	BXJB7	1000	X	X	C)		Dry wgt (A):	0.1228		12.80
							B)	0.1100	Dry wgt (A):	0.1228		
							A-B=	0.0128	Dry wgt (A):			
							D-B=		550 wgt (D):			
									A-D=	0.1228		
24		R1608000-005	BXJB8	1000	X	X	C)		Dry wgt (A):	0.1145		3.40
							B)	0.1110	Dry wgt (A):	0.1144		
							A-B=	0.0034	Dry wgt (A):			
							D-B=		550 wgt (D):			
									A-D=	0.1144		

Tare Weights:

Instrument: ____ Mettler AE240 Analytical Balance
____ Mettler AG204 Analytical Balance

Analyst: KAW
Date: 8/4/16

Drying Tins: X
Crucible 550°C: X
Dish 180°C: ____

Dish 104°C: ____
Dish 550°C: ____
G/O Dishes: ____

	Weight	Actual
Class 1 Weights (s):	1 g	1 g
	20 g	20 g

ID Number	Weight	
BXJ8I	0.1110	0.1110
BXJAP	0.1154	0.1154
BXJAQ	0.1169	0.1169
BXJAR	0.1110	0.1110
BXJAS	0.1108	0.1108
BXJAT	0.1175	0.1175
BXJAU	0.1175	0.1175
BXJAV	0.1147	0.1147
BXJAW	0.1170	0.1170
BXJAX	0.1103	0.1103
BXJAY	0.1180	0.1180
BXJAZ	0.1152	0.1152

ID Number	Weight	
BXJB0	0.1147	0.1147
BXJB1	0.1107	0.1107
BXJB2	0.1165	0.1165
BXJB3	0.1109	0.1109
BXJB4	0.1186	0.1186
BXJB5	0.1177	0.1177
BXJB6	0.1166	0.1166
BXJB7	0.1100	0.1100
BXJB8	0.1110	0.1110
F1	28.7601	28.7601
L1	25.6946	25.6947
Z1	26.7681	26.7680

ALS Environmental
1565 Jefferson Rd., Rochester, NY 14623

General Chemistry Analytical Run Cover Sheet

Analyst: KAW Date: 8/4/16

Analysis: Total Suspended Solids Instrument: X Ohaus PA224C
_____ Mettler AG 204 Analytical Balance

Quality Control:

	Log Book #	Log Book Date	Stock Sol (m/Ls)	Stock Sol (mg/L)	Final Vol (mLs)	True Value (mg/L)
a) Standards Prep.:						
b) I/CCV Preparation:						
c) LCS Preparation:	WC161019E	7/29/2016				214
d) Matrix Spike Prep.:						

Instrument log filled in? (Y) (N)

Packages: Copy and attach LCS Preparation

Comments:

The difference between successive gross dry weights should be less than 4% of the previous weight or 0.5 mg, whichever is less.

As a rule, both the lower tare weight and the lower of the successive dry weights are used for calculation.

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WC161

TITLE

7/27/16 (A) Sulfide Reference
PD
To a tared amber jar add ~0.4g $Na_2S \cdot 9H_2O$ (WC149113B) Add 100mL degassed DI. Stir until dissolved Store @ 4°C for 2 weeks Expires: 8/10/16

7/27/16 (B) Hypochlorite - TKN → Same as WC161003A. Prepare fresh each run.
PD

(a) Post Digestion Matrix Match (PDMM) - TKN
~~To a~~ Same as WC161018G Expires 8/28/16.

7/28/16 (D) Fe^{2+} 2% HCl Solution
KDS

To a 2L Volumetric flask added 40mL conc. HCl and diluted to volume with UPDI. Exp: 7/28/17

7/29/16 (E) TSS Reference
KAW
0.2142g Kaolin (WC149009A) diluted to 1000g w/ DI. Store in plastic bottle @ 4°C. TV = 214 Exp: 7/29/17

7/29/16 (F) PDU4 - TKN
GN
- same as WC161018G using TKN Digest Reagent 174476. Exp 8/28/16