12065 Lebanon Rd
Mt. Juliet, TN 37122
(615) 758-5858
(800) 767-5859
Fax (615) 758-5859
Tax I.D 62-0814289
Est. 1970

Quality Control Summary
SDG: L772219

For: URS Corporation - Tucson AZ - 1088308
Holloman AFB

L772219

Lab SampleID.	Client ID
L772219-01	H-TU506-MW05-NT03

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Quality Control Summary

SDG: L772219

For: URS Corporation - Tucson AZ - 1088308
Project: Holloman AFB
June 30, 2015

Sample Receiving and Handling

All sample aliquots were received at the correct temperature, in the proper containers, and with the appropriate preservatives. All method specified holding times were met.

Dissolved Solids by Method 2540 C-2011

Laboratory Control Sample

Sample L772219-01 was analyzed in analytical batch WG797947. The laboratory control sample associated with this sample was within the laboratory control limits for all target analytes reported from this batch. The relative percent difference was within laboratory limits for all target analytes reported from this batch.

Sample Duplicate Analysis

For analytical batch WG797947 sample duplicate analysis was performed on sample L772115-01. The relative percent differences were within the method limits for target analytes reported from this batch.

Matrix Spike/Matrix Spike Duplicate

Precision for batch WG797947 was evaluated using the LCS/LCSD. The RPDs were within method limits.

Blank Analysis

The method blank, the initial, and all continuing calibration blanks contained no analytes at concentrations above the method reporting limit.

Semi-Volatiles by Method 8270 C-SIM

Laboratory Control Sample

Sample L772219-01 was analyzed in analytical batch WG797470. The laboratory control sample associated with this sample was within the laboratory control limits for all target analytes reported from this batch. The relative percent difference was within laboratory limits for all target analytes reported from this batch.

Matrix Spike/Matrix Spike Duplicate

Precision for batch WG797470 was evaluated using the LCS/LCSD. The RPDs were within method limits.

Blank Analysis

The method blank, the initial, and all continuing calibration blanks contained no analytes at concentrations above the method reporting limit.

Calibration Summary

Instrument BNAMS14 was calibrated on 5/27/2015. The initial calibration and continuing calibration verification standards were within method limits.

Surrogate Summary

The surrogate recoveries were within method limits for all samples.

Internal Standards

The internal standard responses and retention times were within method limits for all samples and quality control samples.

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Quality Control Summary

SDG: L772219

For: URS Corporation - Tucson AZ - 1088308
Project: Holloman AFB
June 30, 2015

Digitally signed by Nancy McLain
DN: cn=Nancy McLain, o, ou=ESC Lab Sciences, email=nmclain@esclabsciences.com, c=US
Date: 2015.07.06 14:10:31 -05'00'

Nancy F. McLain
ESC Representative
ESC Lab Sciences

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

Sheri Fling
URS
8181 E. Tufts Avenue
Denver, CO 80237

Report Summary

Friday June 26, 2015

Report Number: L772219
Samples Received: 06/19/15
Client Project: 60425210 23446543.00

Description: Holloman AFB

The analytical results in this report are based upon information supplied by you, the client, and are for your exclusive use. If you have any questions regarding this data package, please do not hesitate to call.

Entire Report Reviewed By:

Chris McCord, ESC Representative

Laboratory Certification Numbers

A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - 01157CA, CT - PH-0197, FL - E87487, GA - 923, IN - C-TN-01, KY - 90010, KYUST - 0016, NC - ENV375/DW21704/BIO041, ND - R-140. NJ - TN002, NJ NELAP - TN002, SC - 84004, TN - 2006, VA - 460132, WV - 233, AZ - 0612, MN - 047-999-395, NY - 11742, WI - 998093910, NV - TN000032011-1, TX - T104704245-11-3, OK - 9915, PA - 68-02979, IA Lab #364, EPA - TN002

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1-800-767-5859
Fax (615) 758-5859

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REPORT OF ANALYSIS

Sheri Fling
URS
8181 E. Tufts Avenue
Denver, CO 80237

June 26, 2015

ESC Sample # : L772219-01

Date Received : June 19, 2015
Description : Holloman AFB

Site ID :

Sample ID : H-TU506-MW05-NT03

Project # : 60425210 23446543.00

Collected By : Jon Mallonee
Collection Date : 06/18/15 08:10

Parameter	CAS#	Result	DL	LOD	LOQ	Units	Qual	Method	Date	Dil.
Dissolved Solids	DSOLIDS	3400000	2800	5000	10000	ug/l		2540 C-	06/25/15	1
Polynuclear Aromatic Hydrocarbons										
Anthracene	120-12-7	0.14	0.008	0.025	0.05	ug/l		8270 C-	06/23/15	1
Acenaphthene	83-32-9	U	0.01	0.025	0.05	ug/l		8270 C-	06/23/15	1
Acenaphthylene	208-96-8	U	0.007	0.025	0.05	ug/l		8270 C-	06/23/15	1
Benzo(a)anthracene	56-55-3	0.015	0.0083	0.025	0.05	ug/l	J	8270 C-	06/23/15	1
Benzo(a)pyrene	50-32-8	U	0.016	0.025	0.05	ug/l		8270 C-	06/23/15	1
Benzo(b)fluoranthene	205-99-2	0.0052	0.0021	0.025	0.05	ug/l	J	8270 C-	06/23/15	1
Benzo(g,h,i)perylene	191-24-2	0.0063	0.0023	0.025	0.05	ug/l	J	8270 C-	06/23/15	1
Benzo(k)fluoranthene	207-08-9	U	0.026	0.035	0.05	ug/l		8270 C-	06/23/15	1
Chrysene	218-01-9	0.023	0.014	0.025	0.05	ug/l	J	8270 C-	06/23/15	1
Dibenz(a,h)anthracene	53-70-3	0.0052	0.0045	0.025	0.05	ug/l	J	8270 C-	06/23/15	1
Fluoranthene	206-44-0	0.073	0.016	0.025	0.05	ug/l		8270 C-	06/23/15	1
Fluorene	86-73-7	U	0.009	0.025	0.05	ug/l		8270 C-	06/23/15	1
Indeno(1,2,3-cd)pyrene	193-39-5	U	0.0074	0.025	0.05	ug/l		8270 C-	06/23/15	1
Naphthalene	91-20-3	U	0.012	0.025	0.25	ug/l		8270 C-	06/23/15	1
Phenanthrene	85-01-8	0.22	0.018	0.025	0.05	ug/l		8270 C-	06/23/15	1
Pyrene	129-00-0	0.49	0.016	0.025	0.05	ug/l		8270 C-	06/23/15	1
1-Methylnaphthalene	90-12-0	U	0.018	0.025	0.25	ug/l		8270 C-	06/23/15	1
2-Methylnaphthalene	91-57-6	U	0.016	0.025	0.25	ug/l		8270 C-	06/23/15	1
Surrogate Recovery										
Nitrobenzene-d5	4165-60-0	86.5				% Rec.		8270 C-	06/23/15	1
2-Fluorobiphenyl	321-60-8	77.9				% Rec.		8270 C-	06/23/15	1
p-Terphenyl-d14	1718-51-0	87.6				% Rec.		8270 C-	06/23/15	1

U = Not Detected at the LOD
Note:
The reported analytical results relate only to the sample submitted.
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Reported: 06/26/15 14:23 Printed: 06/26/15 14:23

Attachment A
List of Analytes with QC Qualifiers

Sample Number	Work Group	Sample Type	Analyte	Run ID	Qualifier
L772219-01	WG797470	SAMP	Benzo(a)anthracene	R3045241	J
	WG797470	SAMP	Benzo(b)fluoranthene	R3045241	J
	WG797470	SAMP	Benzo(g,h,i)perylene	R3045241	J
	WG797470	SAMP	Chrysene	R3045241	J
	WG797470	SAMP	Dibenz(a,h)anthracene	R3045241	J

Attachment B
Explanation of QC Qualifier Codes

Qualifier	Meaning
J	(EPA) - Estimated value below the lowest calibration point. Confidence correlates with concentration.

Qualifier Report Information

ESC utilizes sample and result qualifiers as set forth by the EPA Contract Laboratory Program and as required by most certifying bodies including NELAC. In addition to the EPA qualifiers adopted by ESC, we have implemented ESC qualifiers to provide more information pertaining to our analytical results. Each qualifier is designated in the qualifier explanation as either EPA or ESC. Data qualifiers are intended to provide the ESC client with more detailed information concerning the potential bias of reported data. Because of the wide range of constituents and variety of matrices incorporated by most EPA methods,it is common for some compounds to fall outside of established ranges. These exceptions are evaluated and all reported data is valid and useable "unless qualified as 'R' (Rejected)."

Definitions

Accuracy - The relationship of the observed value of a known sample to the true value of a known sample. Represented by percent recovery and relevant to samples such as: control samples, matrix spike recoveries, surrogate recoveries, etc.

Precision - The agreement between a set of samples or between duplicate samples. Relates to how close together the results are and is represented by Relative Percent Differrence.

Surrogate - Organic compounds that are similar in chemical composition, extraction, and chromotography to analytes of interest. The surrogates are used to determine the probable response of the group of analytes that are chemically related to the surrogate compound. Surrogates are added to the sample and carried through all stages of preparation and analyses.

TIC - Tentatively Identified Compound: Compounds detected in samples that are not target compounds, internal standards, system monitoring compounds, or surrogates.

Dissolved Solids by Method 2540 C-2011

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Quality Control Summary
SDG: L772219

Dissolved Solids by Method 2540 C-2011
URS Corporation - Tucson AZ - 1088308

Project: Holloman AFB
Project No: 60425210 23446543.00

Login No: L772219

Lab SampleID.	Client ID
L772219-01	H-TU506-MW05-NT03

I certify that this data package accurately represents the information in the raw data found herein, both technically and for completeness. Release of the data contained in this data package has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: _____ Name: ESC Lab Sciences

Date: _____ Title: Quality Control

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Quality Control Summary
SDG: L772219
URS Corporation - Tucson AZ - 1088308

Test:	Dissolved Solids by Method 2540 C-2011		
Project No:	60425210 23446543.00	Matrix:	Water - mg/L
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	6/18/2015	**Analytic Batch:**	**WG797947**
Analysis Date:	6/25/2015 3:16:00 PM	Analyst:	668
Instrument ID:	WETBAL2		
Sample Numbers:	L772219-01		

Workgroup: **WG797947**
Description: **TDS by Method 2540 C-2011 (GW)**

Sample Name	Collect Date	Prep Date	Analysis Date
L772219-01 1x	06/18/2015	06/24/2015	06/25/2015

Parameters in bold text are reported in this SDG

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(800) 767-5859
Fax (615) 758-5859
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Quality Control Summary
SDG: L772219
URS Corporation - Tucson AZ - 1088308

Test:	Dissolved Solids by Method 2540 C-2011		
Project No:	60425210 23446543.00	Matrix:	Water - mg/L
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	6/18/2015	**Analytic Batch:**	**WG797947**
Analysis Date:	6/25/2015 3:16:00 PM	Analyst:	668
Instrument ID:	WETBAL2		
Sample Numbers:	L772219-01		

Method Blank Summary

Instrument	Client Sample ID	Lab Sample ID	File Name	Analysis Date	Analysis Time
WETBAL2	LCS WG797947	LCS WG797947		6/25/2015	3:14 PM
WETBAL2	LCSD WG797947	LCSD WG797947		6/25/2015	3:14 PM
WETBAL2	DUP WG797947	DUP WG797947		6/25/2015	3:15 PM
WETBAL2	H-TU506-MW05-NT03	L772219-01		6/25/2015	3:16 PM
WETBAL2	Blank WG797947	Blank WG797947		6/25/2015	3:24 PM

Parameters in bold text are reported in this SDG

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Quality Control Summary
SDG: L772219
URS Corporation - Tucson AZ - 1088308

Test:	Dissolved Solids by Method 2540 C-2011		
Project No:	60425210 23446543.00	Matrix:	Water - mg/L
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	6/18/2015	**Analytic Batch:**	**WG797947**
Analysis Date:	6/25/2015 3:16:00 PM	Analyst:	668
Instrument ID:	WETBAL2		
Sample Numbers:	L772219-01		

Method Blank

Analyte	CAS	RDL	MDL	Qualifier
Dissolved Solids	DSOLIDS	< 10.0	< 2.82	

Laboratory Control Sample (LCS)

Analyte	Dil	True Value	Found	% Rec	Control Limits	Qual
Dissolved Solids	1	8800	8870	101	85 - 115	

Laboratory Control Sample Duplicate (LCSD)

Analyte	Dil	True Value	Found	% Rec	Control Limits	Qual
Dissolved Solids	1	8800	8840	100	85 - 115	

Laboratory Control Sample / Laboratory Control Sample Duplicate

Analyte	Dil	Spike	LCS	% Rec	LCSD	% Rec	Control Limits	% Rec Qual	% RPD	Control Limits	RPD Qual
Dissolved Solids	1	8800	8870	101	8840	100	85 - 115		0.34	5	

Parameters in bold text are reported in this SDG

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Quality Control Summary
SDG: L772219
URS Corporation - Tucson AZ - 1088308

Test:	Dissolved Solids by Method 2540 C-2011		
Project No:	60425210 23446543.00	Matrix:	Water - mg/L
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	6/18/2015	**Analytic Batch:**	**WG797947**
Analysis Date:	6/25/2015 3:16:00 PM	Analyst:	668
Instrument ID:	WETBAL2		
Sample Numbers:	L772219-01		

Sample Duplicate

L772115-01

Analyte	Dil	Sample Result	DUP Result	% RPD	Limit	Qualifier
Dissolved Solids	1	958	914	4.7	5	

Parameters in bold text are reported in this SDG

Raw Data

Laboratory Bench Sheet

Total Dissolved Solids

6/25/2015 3:25 PM

Workgroup:

WG797947

	Std. ID	Exp. Date	True Value
LCS	15F23762	12/23/15	8800

Method: SM-2540 C-2011 (GW,WW) / 2540 C-1997 (DW)

Prep Analyst: 668

Prep Date/Time: 06/24/15 1035

Instrument: WETBAL2

Capture Analyst: 668

Analysis Date: 06/25/15 0826

State	Sample ID	Mtx	Collect Date	Vessel ID	A Vessel Wt	B Volume Used (ml)	F Oven 2 Wt 1 (g)	G Oven 2 Wt 2 (g)	H Oven 2 Wt Diff (g)	I Residue Wt (g)	J Result TDS (mg/L)	K % Rec TDS (%)	L RPD TDS	Quals TDS
	BLANK	QC	6/24/2015	554	57.6072	100.00	57.6072	57.6072	0.0000	0.0000	0.00			
	LCS	QC	6/24/2015	Q17	58.5179	10.00	58.6057	58.6066	0.0009	0.0887	8870.00	100.80		
	LCSD	QC	6/24/2015	4H	61.2854	10.00	61.3734	61.3738	0.0004	0.0884	8840.00	100.45	0.34	
AZ	L772115-01	GW	6/18/2015	5X	59.4165	50.00	59.4661	59.4644	0.0017	0.0479	958.00			
AZ	L772115-01DUP	GW	6/18/2015	575	59.2229	50.00	59.2719	59.2686	0.0033	0.0457	914.00		4.70	
AZ	L772115-02	GW	6/18/2015	G4	59.9729	50.00	60.0358	60.0323	0.0035	0.0594	1188.00			
AZ	L772115-03	GW	6/18/2015	10	59.0105	75.00	59.0922	59.0886	0.0036	0.0781	1041.33			
AZ	L772115-04	GW	6/18/2015	14	62.5485	20.00	62.6084	62.6074	0.0010	0.0589	2945.00			
AZ	L772219-01	GW	6/18/2015	514	59.6550	20.00	59.7233	59.7222	0.0011	0.0672	3360.00			
TX	L772310-01	GW	6/18/2015	L57	61.5270	50.00	61.6109	61.6087	0.0022	0.0817	1634.00			
TX	L772310-02	GW	6/18/2015	223	62.5340	50.00	62.5894	62.5870	0.0024	0.0530	1060.00			
TX	L772310-03	GW	6/18/2015	R15	61.2639	75.00	61.3361	61.3356	0.0005	0.0717	956.00			
TX	*L772310-04*	*GW*	*6/18/2015*	*5T7*	*61.0688*	*20.00*	*61.7288*	*61.7638*	*0.0350*	*0.6950*	34750.00			
TX	*L772310-05*	*GW*	*6/18/2015*	*573*	*59.0913*	*40.00*	*59.7042*	*59.7249*	*0.0207*	*0.6336*	15840.00			

** Samples highlighted in gray with italic text will not be captured **

Laboratory Bench Sheet

Total Dissolved Solids

6/25/2015 3:25 PM

Workgroup:

WG797947

Seq.	Oven Type	Date/Time In	Temp In	Date/Time Out	Temp Out	Samples
1	Oven (104 deg)	6/24/2015 12:52 PM	104	6/25/2015 7:11 AM	104	BLANK, LCS, LCSD, L772115-01, L772115-01DUP, L772115-02, L772115-03, L772115-04, L772219-01, L772310-01, L772310-02, L772310-03, L772310-04, L772310-05
2	Oven (180 deg)	6/25/2015 7:11 AM	180	6/25/2015 8:26 AM	180	BLANK, LCS, LCSD, L772115-01, L772115-01DUP, L772115-02, L772115-03, L772115-04, L772219-01, L772310-01, L772310-02, L772310-03, L772310-04, L772310-05
3	Oven (180 deg)	6/25/2015 11:35 AM	180	6/25/2015 1:10 PM	180	BLANK, LCS, LCSD, L772115-01, L772115-01DUP, L772115-02, L772115-03, L772115-04, L772219-01, L772310-01, L772310-02, L772310-03, L772310-04, L772310-05

** Samples highlighted in gray with italic text will not be captured **

Laboratory Bench Sheet

Total Dissolved Solids

6/25/2015 3:25 PM

Workgroup:

WG797947

Calculations

[H] Oven Wt. Diff. 180 Deg C = ABS(G - F)

[I] Residue Wt = ABS(H - A)

[J] TDS (mg/L) = (H - A) * 1000000 / B

[K] Percent Recovery = (Observed Result / True Value) * 100

[L] RPD = (ABS(Parent Result - Duplicate Result) / ((Parent Result + Duplicate Result) / 2)) * 100

ESC LAB SCIENCES WetChem Prep

Hello, Jim Goad Log off

WG797947 Remove All Samples .CSV (/Home /DownloadCSV?Length=4) ■=Hold ■=EDD/QC ■=RX,R1,R2 ■=R3,R4,NU ■=EX Status Char

	Sampnum		Matrix	Product	State	Status	HoldDate		DueDate	Pri		
	1. L772115-01	*	GW	TDS 1424 4	AZ	WG	06/25/15	50	06/26/15	R5		
−	2. L772115-02	*	GW	TDS 1682 4	AZ	WG	06/25/15	50	06/26/15	R5		
−	3. L772115-03	*	GW	TDS 1302 4	AZ	WG	06/25/15	75	06/26/15	R5		
−	4. L772115-04	*	GW	TDS 3.95 M	AZ	WG	06/25/15	20	06/26/15	R5		
−	5. L772219-01	*	GW	TDS 3.25 M	AZ	WG	06/25/15	20	06/26/15	R5		
	EDD/QC4/DOD											
−	6. L772310-01	*	GW	TDS 1991 4	TX	WG	06/25/15	50	06/26/15	R5		
−	7. L772310-02	*	GW	TDS 1345 4	TX	WG	06/25/15	50	06/26/15	R5		
−	8. L772310-03	*	GW	TDS 1305 4	TX	WG	06/25/15	75	06/26/15	R5		
−	9. L772310-04	*	GW	TDS 47.0 M	TX	WG	06/25/15	20	06/26/15	R5		
−	10. L772310-05	*	GW	TDS 23.47 M	TX	WG	06/25/15	40	06/26/15	R5		
+												
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+												
+												
+												
+												

Cancel Save

Jim Goad 668
6-24-15 R5
Due 6-26-15

Semi-Volatiles by Method 8270 C-SIM

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Quality Control Summary
SDG: L772219

Semi-Volatiles by Method 8270 C-SIM
URS Corporation - Tucson AZ - 1088308

Project: Holloman AFB
Project No: 60425210 23446543.00

Login No: L772219

Lab SampleID.	Client ID
L772219-01	H-TU506-MW05-NT03

I certify that this data package accurately represents the information in the raw data found herein, both technically and for completeness. Release of the data contained in this data package has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: _____ Name: ESC Lab Sciences

Date: _____ Title: Quality Control

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Quality Control Summary
SDG: L772219
URS Corporation - Tucson AZ - 1088308

Test:	Semi-Volatiles by Method 8270 C-SIM		
Project No:	60425210 23446543.00	Matrix:	Water - ug/L
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	6/18/2015	**Analytic Batch:**	**WG797470**
Analysis Date:	6/23/2015	Analyst:	280
Instrument ID:	BNAMS14	Prep Date:	6/22/2015
Sample Numbers:	L772219-01		

Workgroup: **WG797470**
Description: **PAHs by SIM by Method 8270 C-SIM (GW)**

Sample Name	Collect Date	Prep Date	Analysis Date
L772219-01 1x	06/18/2015	06/22/2015	06/23/2015

Parameters in bold text are reported in this SDG

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Quality Control Summary
SDG: L772219
URS Corporation - Tucson AZ - 1088308

Test:	Semi-Volatiles by Method 8270 C-SIM		
Project No:	60425210 23446543.00	Matrix:	Water - ug/L
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	6/18/2015	**Analytic Batch:**	**WG797470**
Analysis Date:	6/23/2015	Analyst:	280
Instrument ID:	BNAMS14	Prep Date:	6/22/2015
Sample Numbers:	L772219-01		

Method Blank Summary

Instrument	Client Sample ID	Lab Sample ID	File Name	Analysis Date	Analysis Time
BNAMS14	LCS WG797470	LCS WG797470	0622C_04.D	6/23/2015	3:34 AM
BNAMS14	LCSD WG797470	LCSD WG797470	0622C_05.D	6/23/2015	3:54 AM
BNAMS14	Blank WG797470	Blank WG797470	0622C_06.D	6/23/2015	4:15 AM
BNAMS14	H-TU506-MW05-NT03	L772219-01	0622C_07.D	6/23/2015	4:36 AM

Parameters in bold text are reported in this SDG

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Mt. Juliet, TN 37122
(615) 758-5858
(800) 767-5859
Fax (615) 758-5859
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Est. 1970

Quality Control Summary
SDG: L772219
URS Corporation - Tucson AZ - 1088308

Test:	Semi-Volatiles by Method 8270 C-SIM		
Project No:	60425210 23446543.00	Matrix:	Water - ug/L
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	6/18/2015	**Analytic Batch:**	**WG797470**
Analysis Date:	6/23/2015	Analyst:	280
Instrument ID:	BNAMS14	Prep Date:	6/22/2015
Sample Numbers:	L772219-01		

Method Blank

Analyte	CAS	RDL	MDL	Qualifier
1-Methylnaphthalene	90-12-0	< 0.250	< 0.0185	
2-Methylnaphthalene	91-57-6	< 0.250	< 0.0155	
Acenaphthene	83-32-9	< 0.0500	< 0.0100	
Acenaphthylene	208-96-8	< 0.0500	< 0.00700	
Anthracene	120-12-7	< 0.0500	< 0.00800	
Benzo(a)anthracene	56-55-3	< 0.0500	< 0.00830	
Benzo(a)pyrene	50-32-8	< 0.0500	< 0.0158	
Benzo(b)fluoranthene	205-99-2	< 0.0500	0.00221	
Benzo(g,h,i)perylene	191-24-2	< 0.0500	0.00427	
Benzo(k)fluoranthene	207-08-9	< 0.0500	< 0.0255	
Chrysene	218-01-9	< 0.0500	< 0.0144	
Dibenz(a,h)anthracene	53-70-3	< 0.0500	< 0.00454	
Fluoranthene	206-44-0	< 0.0500	< 0.0165	
Fluorene	86-73-7	< 0.0500	< 0.00898	
Indeno(1,2,3-cd)pyrene	193-39-5	< 0.0500	< 0.00739	
Naphthalene	91-20-3	< 0.250	< 0.0120	
Phenanthrene	85-01-8	< 0.0500	< 0.0184	
Pyrene	129-00-0	< 0.0500	< 0.0155	

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Quality Control Summary
SDG: L772219
URS Corporation - Tucson AZ - 1088308

Test:	Semi-Volatiles by Method 8270 C-SIM		
Project No:	60425210 23446543.00	Matrix:	Water - ug/L
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	6/18/2015	**Analytic Batch:**	**WG797470**
Analysis Date:	6/23/2015	Analyst:	280
Instrument ID:	BNAMS14	Prep Date:	6/22/2015
Sample Numbers:	L772219-01		

Laboratory Control Sample (LCS)

Analyte	Dil	True Value	Found	% Rec	Control Limits	Qual
1-Methylnaphthalene	1	2	1.6765	83.8	48.8 - 109	
2-Methylnaphthalene	1	2	1.6465	82.3	46.7 - 107	
Acenaphthene	1	2	1.6831	84.2	50.6 - 107	
Acenaphthylene	1	2	1.8008	90	50.1 - 108	
Anthracene	1	2	1.7901	89.5	51.8 - 119	
Benzo(a)anthracene	1	2	1.9098	95.5	47.4 - 121	
Benzo(a)pyrene	1	2	1.8581	92.9	49.8 - 119	
Benzo(b)fluoranthene	1	2	1.7528	87.6	47.4 - 119	
Benzo(g,h,i)perylene	1	2	1.8603	93	37.2 - 129	
Benzo(k)fluoranthene	1	2	1.7938	89.7	47.5 - 122	
Chrysene	1	2	1.7722	88.6	48.6 - 126	
Dibenz(a,h)anthracene	1	2	1.8832	94.2	34.1 - 130	
Fluoranthene	1	2	1.7659	88.3	50.9 - 123	
Fluorene	1	2	1.7151	85.8	50.2 - 110	
Indeno(1,2,3-cd)pyrene	1	2	1.8855	94.3	45.3 - 125	
Naphthalene	1	2	1.5685	78.4	45.7 - 101	
Phenanthrene	1	2	1.6559	82.8	47.7 - 113	
Pyrene	1	2	1.7717	88.6	44.5 - 125	

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Quality Control Summary
SDG: L772219
URS Corporation - Tucson AZ - 1088308

Test:	Semi-Volatiles by Method 8270 C-SIM		
Project No:	60425210 23446543.00	Matrix:	Water - ug/L
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	6/18/2015	**Analytic Batch:**	**WG797470**
Analysis Date:	6/23/2015	Analyst:	280
Instrument ID:	BNAMS14	Prep Date:	6/22/2015
Sample Numbers:	L772219-01		

Laboratory Control Sample Duplicate (LCSD)

Analyte	Dil	True Value	Found	% Rec	Control Limits	Qual
1-Methylnaphthalene	1	2	1.7864	89.3	48.8 - 109	
2-Methylnaphthalene	1	2	1.7413	87.1	46.7 - 107	
Acenaphthene	1	2	1.8078	90.4	50.6 - 107	
Acenaphthylene	1	2	1.9419	97.1	50.1 - 108	
Anthracene	1	2	1.9715	98.6	51.8 - 119	
Benzo(a)anthracene	1	2	2.0918	105	47.4 - 121	
Benzo(a)pyrene	1	2	2.0524	103	49.8 - 119	
Benzo(b)fluoranthene	1	2	1.9735	98.7	47.4 - 119	
Benzo(g,h,i)perylene	1	2	2.0234	101	37.2 - 129	
Benzo(k)fluoranthene	1	2	1.9374	96.9	47.5 - 122	
Chrysene	1	2	1.9430	97.2	48.6 - 126	
Dibenz(a,h)anthracene	1	2	2.0880	104	34.1 - 130	
Fluoranthene	1	2	1.9364	96.8	50.9 - 123	
Fluorene	1	2	1.8459	92.3	50.2 - 110	
Indeno(1,2,3-cd)pyrene	1	2	2.0810	104	45.3 - 125	
Naphthalene	1	2	1.6691	83.5	45.7 - 101	
Phenanthrene	1	2	1.8151	90.8	47.7 - 113	
Pyrene	1	2	1.9471	97.4	44.5 - 125	

Parameters in bold text are reported in this SDG

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Quality Control Summary
SDG: L772219
URS Corporation - Tucson AZ - 1088308

Test:	Semi-Volatiles by Method 8270 C-SIM		
Project No:	60425210 23446543.00	Matrix:	Water - ug/L
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	6/18/2015	**Analytic Batch:**	**WG797470**
Analysis Date:	6/23/2015	Analyst:	280
Instrument ID:	BNAMS14	Prep Date:	6/22/2015
Sample Numbers:	L772219-01		

Laboratory Control Sample / Laboratory Control Sample Duplicate

Analyte	Dil	Spike	LCS	% Rec	LCSD	% Rec	Control Limits	% Rec Qual	% RPD	Control Limits	RPD Qual
1-Methylnaphthalene	1	2	1.6765	83.8	1.7864	89.3	48.8 - 109		6.35	20	
2-Methylnaphthalene	1	2	1.6465	82.3	1.7413	87.1	46.7 - 107		5.6	20	
Acenaphthene	1	2	1.6831	84.2	1.8078	90.4	50.6 - 107		7.15	20	
Acenaphthylene	1	2	1.8008	90	1.9419	97.1	50.1 - 108		7.54	20	
Anthracene	1	2	1.7901	89.5	1.9715	98.6	51.8 - 119		9.64	20	
Benzo(a)anthracene	1	2	1.9098	95.5	2.0918	105	47.4 - 121		9.1	20	
Benzo(a)pyrene	1	2	1.8581	92.9	2.0524	103	49.8 - 119		9.94	20	
Benzo(b)fluoranthene	1	2	1.7528	87.6	1.9735	98.7	47.4 - 119		11.8	20.2	
Benzo(g,h,i)perylene	1	2	1.8603	93	2.0234	101	37.2 - 129		8.4	21.3	
Benzo(k)fluoranthene	1	2	1.7938	89.7	1.9374	96.9	47.5 - 122		7.7	20	
Chrysene	1	2	1.7722	88.6	1.9430	97.2	48.6 - 126		9.19	20	
Dibenz(a,h)anthracene	1	2	1.8832	94.2	2.0880	104	34.1 - 130		10.3	21	
Fluoranthene	1	2	1.7659	88.3	1.9364	96.8	50.9 - 123		9.21	20	
Fluorene	1	2	1.7151	85.8	1.8459	92.3	50.2 - 110		7.34	20	
Indeno(1,2,3-cd)pyrene	1	2	1.8855	94.3	2.0810	104	45.3 - 125		9.86	20	
Naphthalene	1	2	1.5685	78.4	1.6691	83.5	45.7 - 101		6.21	20	
Phenanthrene	1	2	1.6559	82.8	1.8151	90.8	47.7 - 113		9.17	20	
Pyrene	1	2	1.7717	88.6	1.9471	97.4	44.5 - 125		9.43	20	

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Quality Control Summary
SDG: L772219
URS Corporation - Tucson AZ - 1088308

Test:	Semi-Volatiles by Method 8270 C-SIM		
Project No:	60425210 23446543.00	Matrix:	Water - ug/L
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	6/18/2015	**Analytic Batch:**	**WG797470**
Analysis Date:	6/23/2015	Analyst:	280
Instrument ID:	BNAMS14	Prep Date:	6/22/2015
Sample Numbers:	L772219-01		

Internal Standard Response and Retention Time Summary

File ID: 0622C_03
Analyzed: 06/23/15 030000

	NAP		ACE		PHEN		CHR	
	Response	**RT**	**Response**	**RT**	**Response**	**RT**	**Response**	**RT**
12 Hr. Std	23512	5.12	12760	6.50	20564	7.77	22637	10.79
Upper Limit	47000	5.62	25500	7.00	41100	8.27	45300	11.29
Lower Limit	11800	4.62	6380	6.00	10300	7.27	11300	10.29
Sample ID	**Response**	**RT**	**Response**	**RT**	**Response**	**RT**	**Response**	**RT**
L772219-01	21405	5.12	11537	6.49	18785	7.76	18690	10.77
LCSD WG797470	22372	5.12	12016	6.49	19467	7.76	19133	10.77
LCS WG797470	21507	5.12	11579	6.50	19107	7.77	18873	10.78
BLANK WG797470	22315	5.12	11951	6.49	19199	7.76	18384	10.77

Legend:
NAP -- Naphthalene-d8
ACE -- Acenaphthene-d10
PHEN -- Phenanthrene-d10
CHR -- Chrysene-d12
PER -- Perylene-d12

Parameters in bold text are reported in this SDG

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Quality Control Summary
SDG: L772219
URS Corporation - Tucson AZ - 1088308

Test:	Semi-Volatiles by Method 8270 C-SIM		
Project No:	60425210 23446543.00	Matrix:	Water - ug/L
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	6/18/2015	**Analytic Batch:**	**WG797470**
Analysis Date:	6/23/2015	Analyst:	280
Instrument ID:	BNAMS14	Prep Date:	6/22/2015
Sample Numbers:	L772219-01		

Internal Standard Response and Retention Time Summary

File ID: 0622C_03
Analyzed: 06/23/15 030000

	NAP		PER	
	Response	**RT**	**Response**	**RT**
12 Hr. Std	23512	5.12	23011	12.69
Upper Limit	47000	5.62	46000	13.19
Lower Limit	11800	4.62	11500	12.19
Sample ID	**Response**	**RT**	**Response**	**RT**
L772219-01	21405	5.12	21031	12.68
LCSD WG797470	22372	5.12	21726	12.68
LCS WG797470	21507	5.12	21654	12.68
BLANK WG797470	22315	5.12	20980	12.68

Legend:

NAP -- Naphthalene-d8
ACE -- Acenaphthene-d10
PHEN -- Phenanthrene-d10
CHR -- Chrysene-d12
PER -- Perylene-d12

Parameters in bold text are reported in this SDG

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Quality Control Summary
SDG: L772219
URS Corporation - Tucson AZ - 1088308

Test:	Semi-Volatiles by Method 8270 C-SIM		
Project No:	60425210 23446543.00	Matrix:	Water - ug/L
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	6/18/2015	**Analytic Batch:**	**WG797470**
Analysis Date:	6/23/2015	Analyst:	280
Instrument ID:	BNAMS14	Prep Date:	6/22/2015
Sample Numbers:	L772219-01		

Surrogate Summary

Laboratory Sample ID	Instrument	File ID	FBP ppm	FBP % Rec	NBZ ppm	NBZ % Rec	TPH ppm	TPH % Rec
L772219-01	BNAMS14	0622C_07	0.00156	77.9	0.00173	86.5	0.00175	87.6
LCS WG797470	BNAMS14	0622C_04	0.00159	79.3	0.00173	86.7	0.00167	83.6
LCSD WG797470	BNAMS14	0622C_05	0.00167	83.7	0.00186	93.2	0.00182	90.8
BLANK WG797470	BNAMS14	0622C_06	0.00163	81.3	0.00176	87.8	0.00177	88.7

FBP --2-FLUOROBIPHENYL	True Value: 0.002 ppm	Limits: 38.8 - 115
NBZ --NITROBENZENE-D5	True Value: 0.002 ppm	Limits: 18 - 137
TPH --P-TERPHENYL-D14	True Value: 0.002 ppm	Limits: 33.90 - 128

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Quality Control Summary
SDG: L772219
URS Corporation - Tucson AZ - 1088308

Test:	Semi-Volatiles by Method 8270 C-SIM		
Project No:	60425210 23446543.00	Matrix:	Water - mg/L
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	6/18/2015	**Analytic Batch:**	**WG797470**
Analysis Date:	6/23/2015	Analyst:	280
Instrument ID:	BNAMS14	Prep Date:	6/22/2015
Sample Numbers:	L772219-01		

Instrument Performance Summary

FileID:0622C_02.D Date:6/23/2015 Time: 2:15 AM

m/e	Ion Abundance Criteria	% Relative Abundance
51	10 - 80% of mass 442	50.8
68	Less than 2% of mass 69	1.9
69	Less than 200% of mass 69	100.0
70	Less than 2% of mass 69	0.6
127	10 - 80% of mass 442	44.8
197	Less than 2% of mass 198	0.3
198	50 - 100% of mass 442	60.6
199	5 - 9% of mass 198	6.8
275	10 - 60% of mass 442	17.4
365	1 - 100% of mass 442	4.5
441	Present, but less than mass 443	81.2
442	50 - 100% of mass 442	100.0
443	15 - 24% of mass 442	19.3

This Check applies to the following samples and quality control samples

Client Sample ID	Laboratory Sample ID	Lab Filename	Date Analyzed	Time Analyzed
LCS WG797470	LCS WG797470	0622C_04.D	6/23/2015	3:34 AM
LCSD WG797470	LCSD WG797470	0622C_05.D	6/23/2015	3:54 AM
Blank WG797470	Blank WG797470	0622C_06.D	6/23/2015	4:15 AM
H-TU506-MW05-NT03	L772219-01	0622C_07.D	6/23/2015	4:36 AM

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Quality Control Summary
SDG: L772219
URS Corporation - Tucson AZ - 1088308

Test: Semi-Volatiles by Method 8270 C-SIM
Project: Holloman AFB
Instrument ID: BNAMS14
Method Name : SS14E27O.M

Relative Response Factor Summary

Compound Name	Level 1	Level 5	Level 10	Level 20	Level 40	Level 80	Level 200	Level 1000	Level 2000	Average RRF	%RSD
Nitrobenzene-d5	0.228	0.292	0.297	0.301	0.295	0.303	0.310	0.312	0.320	0.295347	9.12
Naphthalene	1.253	1.081	1.077	1.072	1.060	1.037	1.021	0.975	0.986	1.062420	7.65
2-Methylnaphthalene	0.707	0.665	0.671	0.678	0.673	0.659	0.655	0.632	0.641	0.664435	3.30
1-Methylnaphthalene	0.651	0.619	0.628	0.630	0.628	0.611	0.601	0.569	0.573	0.612279	4.40
2-Fluorobiphenyl	1.367	1.310	1.321	1.340	1.335	1.308	1.310	1.324	1.372	1.331981	1.81
2-Chloronaphthalene	1.247	1.192	1.205	1.217	1.214	1.194	1.198	1.196	1.244	1.211836	1.72
Acenaphthylene	1.663	1.618	1.666	1.730	1.731	1.812	1.899	1.999	2.088	1.800563	9.04
Acenaphthene	1.256	1.190	1.199	1.210	1.214	1.181	1.193	1.196	1.238	1.208492	2.03
Dibenzofuran	1.647	1.563	1.617	1.617	1.602	1.555	1.565	1.542	1.586	1.588078	2.20
Fluorene	1.333	1.274	1.296	1.305	1.314	1.303	1.320	1.375	1.422	1.327112	3.40
Phenanthrene	1.160	1.105	1.103	1.113	1.110	1.100	1.119	1.151	1.211	1.130288	3.27
Anthracene	0.931	0.948	0.976	1.026	1.038	1.078	1.119	1.167	1.216	1.055250	9.31
Fluoranthene	1.052	1.027	1.049	1.071	1.091	1.096	1.133	1.204	1.270	1.110376	7.20
Pyrene	1.069	1.041	1.055	1.068	1.051	1.043	1.036	0.947	0.893	1.022666	5.95
p-Terphenyl-d14	0.912	0.893	0.892	0.902	0.893	0.867	0.860	0.783	0.761	0.862494	6.24
Benzo(a)anthracene	1.033	0.956	0.973	1.003	0.992	1.016	1.046	0.984	0.951	0.994886	3.30
Chrysene	1.068	1.066	1.087	1.081	1.067	1.026	1.007	0.899	0.837	1.015339	8.75
Benzo(b)fluoranthene	1.036	1.061	1.056	1.038	1.121	1.057	1.098	0.947	0.905	1.035524	6.61
Benzo(k)fluoranthene	1.073	1.091	1.066	1.090	1.052	1.091	1.047	0.928	0.832	1.029900	8.73
Benzo(a)pyrene	0.816	0.850	0.861	0.895	0.946	0.926	0.954	0.852	0.792	0.877003	6.50
Indeno(1,2,3-cd)pyrene	1.313	1.217	1.250	1.279	1.294	1.307	1.329	1.190	1.038	1.246263	7.29
Dibenz(a,h)anthracene	1.101	1.023	1.051	1.083	1.087	1.097	1.120	1.004	0.896	1.051136	6.60
Benzo(g,h,i)perylene	1.202	1.072	1.088	1.106	1.188	1.106	1.108	0.953	0.812	1.070500	11.26

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Quality Control Summary
SDG: L772219
URS Corporation - Tucson AZ - 1088308

Test: Semi-Volatiles by Method 8270 C-SIM
Project No: 60425210 23446543.00
Project: Holloman AFB EPA ID: TN00003
Collection Date: 6/18/2015
Instrument ID: BNAMS14

Method Name : SS14E27O.M Date : 6/23/2015
FileName : 0622C_03.D Time : 3:00 AM

Continuing Calibration Verification

Compound Name	Average RRF	CCC RRF	%D
Naphthalene	1.0624	1.1156	5
2-Methylnaphthalene	0.6644	0.6639	0.08
1-Methylnaphthalene	0.6123	0.6170	0.77
Acenaphthylene	1.8006	1.8902	4.98
Acenaphthene	1.2085	1.1713	3.08
Fluorene	1.3271	1.2852	3.16
Phenanthrene	1.1303	1.0550	6.66
Anthracene	1.0553	1.0616	0.6
Fluoranthene	1.1104	1.0790	2.83
Pyrene	1.0227	0.8904	12.9
Benzo(a)anthracene	0.9949	0.9474	4.77
Chrysene	1.0153	0.8790	13.4
Benzo(b)fluoranthene	1.0355	1.0312	0.42
Benzo(k)fluoranthene	1.0299	0.9574	7.04
Benzo(a)pyrene	0.8770	0.8951	2.06
Indeno(1,2,3-cd)pyrene	1.2463	1.2778	2.53
Dibenz(a,h)anthracene	1.0511	1.0709	1.88
Benzo(g,h,i)perylene	1.0705	1.0628	0.72

*** - calibrated by linear regression*

Raw Data

SIM RV Extractions Benchsheet

Batch #: WG797470

Analyst: DLT573 **Prep Start Date/Time:** 06/22/15 19:52 **Prep End Date/Time:** 06/22/15 21:31 **SOP:** 330702B **Method:** 3510C

Na2SO4: 15E16826 Exp. Date:11/16/15 **NaOH:** 15E12540 Exp. Date:09/01/15 **MeCl2:** 15F05928 Exp. Date:12/05/15 **Surrogate:** 15E28383 Amt. Used: 200 µL Exp. Date:10/29/15

LCS/MS Spike: 15D14085 Amt. Used: 200 µL Exp. Date:09/15/15

Sample Number	Qualifiers	Initial Sample Vol (mL)	Adjusted pH >11	Solvent Volume (mL)	Emulsion	Final Volume (mL)	Extract Color	Sample Comments
BLANK		100	>11	18	No Emulsion	5	Colorless	
LCS		100	>11	18	No Emulsion	5	Colorless	
LCSD		100	>11	18	No Emulsion	5	Colorless	
1. L772219-01		100	>11	18	No Emulsion	5	Colorless	EDD/QC4/DOD
2. L772463-07		100	>11	18	Med. Emulsion	5	Colorless	
3. L772463-08		100	>11	18	Med. Emulsion	5	Colorless	
4. L772463-09		100	>11	18	No Emulsion	5	Colorless	
5. L772463-10		100	>11	18	Total Emulsion	5	Colorless	
6. L772474-01		100	>11	18	No Emulsion	5	Colorless	

Comments:

Reviewed By:CJR140 on 06/23/15 04:13:31

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

Injection Log

Instrument ID : BNAMS14
Computer Name : SVCOMPAL

Released By : Brett Basham
Date Released : 6/23/2015 1:42:46 PM

Run ID : 062215C
Signature : _____

#	File ID	Sample ID	Method	WG	Product	Matrix	Account #	State	Dil.	Mult.	Injected	Misc.
1	0622C_01	INSTBLK	SS14E27O						1	1	06/23/15 0154	"INSTBLK SVOCS"
2	0622C_02	TUNE DFTPP 2 PPM 15F12284	TUNE525						1	1	06/23/15 0215	"DFTPP TUNE 15F12284"
3	0622C_02 T	TUNE DFTPP 2 PPM 15F12284	TUNE525							1	06/23/15 0215	
4	0622C_03	ICV SIMLVI 40 PPB 15D23587	SS14E27O						1	1	06/23/15 0300	"SIM STD"
5	0622C_04	LCS	SS14E27O	WG797470	8270PAHSIM	GW			1	0.05	06/23/15 0334	"water 15E28383/15D14085 "
6	0622C_05	LCSD	SS14E27O	WG797470	8270PAHSIM	GW			1	0.05	06/23/15 0354	"water 15E28383/15D14085 "
7	0622C_06	BLANK	SS14E27O	WG797470	8270PAHSIM	GW			1	0.05	06/23/15 0415	"water 15E28383/15D14085 "
8	0622C_07	L772219-01	SS14E27O	WG797470	8270PAHSIM	GW	URSTAZ	AZ	1	0.05	06/23/15 0436	"water 15E28383/15D14085 "
9	0622C_08	L772463-07	SS14E27O	WG797470	8270PAHSIM	GW	GAIACIL	KY	1	0.05	06/23/15 0457	"water 15E28383/15D14085 "
10	0622C_09	L772463-08	SS14E27O	WG797470	8270PAHSIM	GW	GAIACIL	KY	1	0.05	06/23/15 0517	"water 15E28383/15D14085 "
11	0622C_10	L772463-09	SS14E27O	WG797470	8270PAHSIM	GW	GAIACIL	KY	1	0.05	06/23/15 0538	"water 15E28383/15D14085 "
12	0622C_11	L772463-10	SS14E27O	WG797470	8270PAHSIM	GW	GAIACIL	KY	1	0.05	06/23/15 0559	"water 15E28383/15D14085 "
13	0622C_12	L772474-01	SS14E27O	WG797470	8270PAHSIM	GW	NUTENVBBFL	FL	1	0.05	06/23/15 0619	"water 15E28383/15D14085 "
14	0622C_13	L772413-05	SS14E27O	WG797187	PAHSIMLVI	GW	AKTPEERSMI	IL	1	0.05	06/23/15 0640	"water 15E28383/15F15407"
15	0622C_14	L772413-04	SS14E27O	WG797187	PAHSIMLVI	GW	AKTPEERSMI	IL	1	0.05	06/23/15 0701	"water 15E28383/15F15407"
16	0622C_15	DNR L772413-03	SS14E27O	WG797187					1	0.05	06/23/15 0722	"water 15E28383/15F15407"
17	0622C_16	L772316-17	SS14E27O	WG797187	PAHSIMLVI	GW	PLAINSENT	NM	1	0.05	06/23/15 0742	"water 15E28383/15F15407"
18	0622C_17	L772316-16	SS14E27O	WG797187	PAHSIMLVI	GW	PLAINSENT	NM	1	0.05	06/23/15 0803	"water 15E28383/15F15407"
19	0622C_18	L772316-15	SS14E27O	WG797187	PAHSIMLVI	GW	PLAINSENT	NM	1	0.05	06/23/15 0824	"water 15E28383/15F15407"
20	0622C_19	L772316-14	SS14E27O	WG797187	PAHSIMLVI	GW	PLAINSENT	NM	1	0.05	06/23/15 0845	"water 15E28383/15F15407"

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

Injection Log

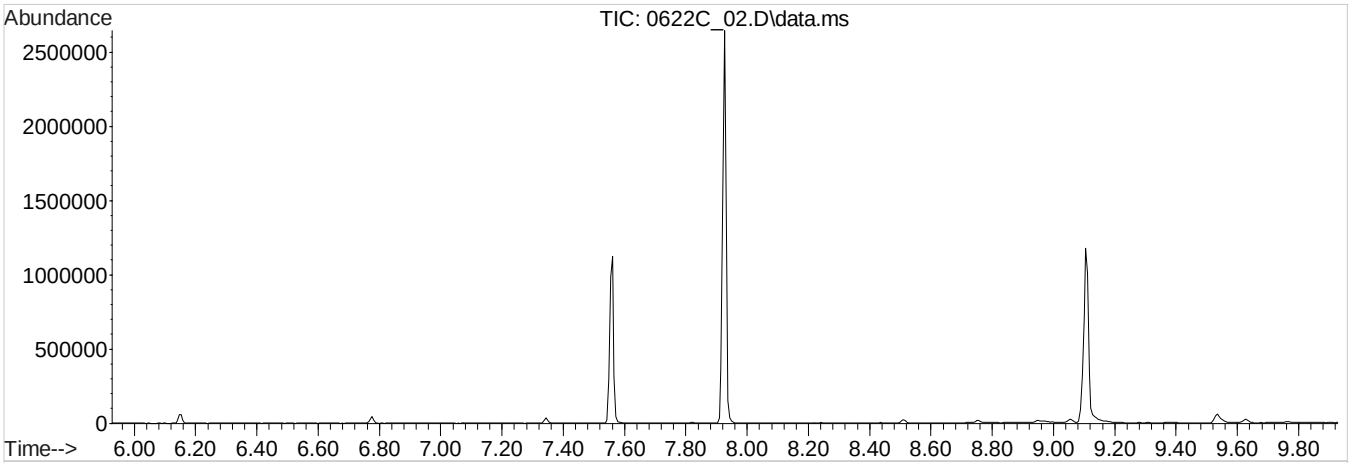
Instrument ID : BNAMS14
Computer Name : SVCOMPAL
Released By : Brett Basham
Date Released : 6/23/2015 1:42:46 PM
Run ID : 062215C
Signature : _____

#	File ID	Sample ID	Method	WG	Product	Matrix	Account #	State	Dil.	Mult.	Injected	Misc.
21	0622C_20	L772316-13	SS14E27O	WG797187	PAHSIMLVI	GW	PLAINSENT	NM	1	0.05	06/23/15 0905	"water 15E28383/15F15407"
22	0622C_21	BLANK	SS14E27O	WG797458	SV8270PAHSIM	SS			1	2	06/23/15 0926	"SOIL 15F08029/15F14361"
23	0622C_22	LCS	SS14E27O	WG797458	SV8270PAHSIM	SS			1	2	06/23/15 0947	"SOIL 15F08029/15F14361"
24	0622C_23	LCSD	SS14E27O	WG797458	SV8270PAHSIM	SS			1	2	06/23/15 1008	"SOIL 15F08029/15F14361"
25	0622C_24	L772564-02	SS14E27O	WG797458	SV8270PAHSIM	SS	ENCANRCO	TX	1	2	06/23/15 1028	"SOIL 15F08029/15F14361"
26	0622C_25	L772559-02	SS14E27O	WG797458	SV8270PAHSIM	SS	SWICRKDVA	FL	1	2	06/23/15 1049	"SOIL 15F08029/15F14361"
27	0622C_26	L772221-07	SS14E27O	WG797089	SV8270PAHSIM	SS	TRCPAL	AL	10	20	06/23/15 1110	"SOIL 15F08029/15F14361"
28	0622C_27	L772221-01	SS14E27O	WG797089	SV8270PAHSIM	SS	TRCPAL	AL	10	20	06/23/15 1131	"SOIL 15F08029/15F14361"
29	0622C_28	L772221-11	SS14E27O	WG797089	SV8270PAHSIM	SS	TRCPAL	AL	10	20	06/23/15 1151	"SOIL 15F08029/15F14361"
30	0622C_29	L772221-04	SS14E27O	WG797089	SV8270PAHSIM	SS	TRCPAL	AL	10	20	06/23/15 1212	"SOIL 15F08029/15F14361"
31	0622C_30	L772412-09	SS14E27O	WG797252	SV8270PAHSIM	SS	URSCORPAZ	AZ	20	40	06/23/15 1233	"SOIL 15F08029/15F14361"
32	0622C_31	L771435-05	SS14E27O	WG796551	SV8270PAHSIM	SS	ENCANADCO	WY	20	40	06/23/15 1254	"SOIL 15F08029/15F14361"
33	0622C_32	DNR L772221-02	SS14E27O	WG797089					50	100	06/23/15 1314	"SOIL 15F08029/15F14361"

Data Path : C:\msdchem\1\DATA\062215C\
Data File : 0622C 02.D
Acq On : 23 Jun 2015 2:15 am
Operator : 280
Sample : TUNE DFTPP 2 PPM 15F12284
Misc : DFTPP TUNE 15F12284
ALS Vial : 2 Sample Multiplier: 1

Integration File: events.e

Method : C:\msdchem\1\METHODS\TUNE525.M
Title :
Last Update : Wed Dec 31 16:28:46 2014



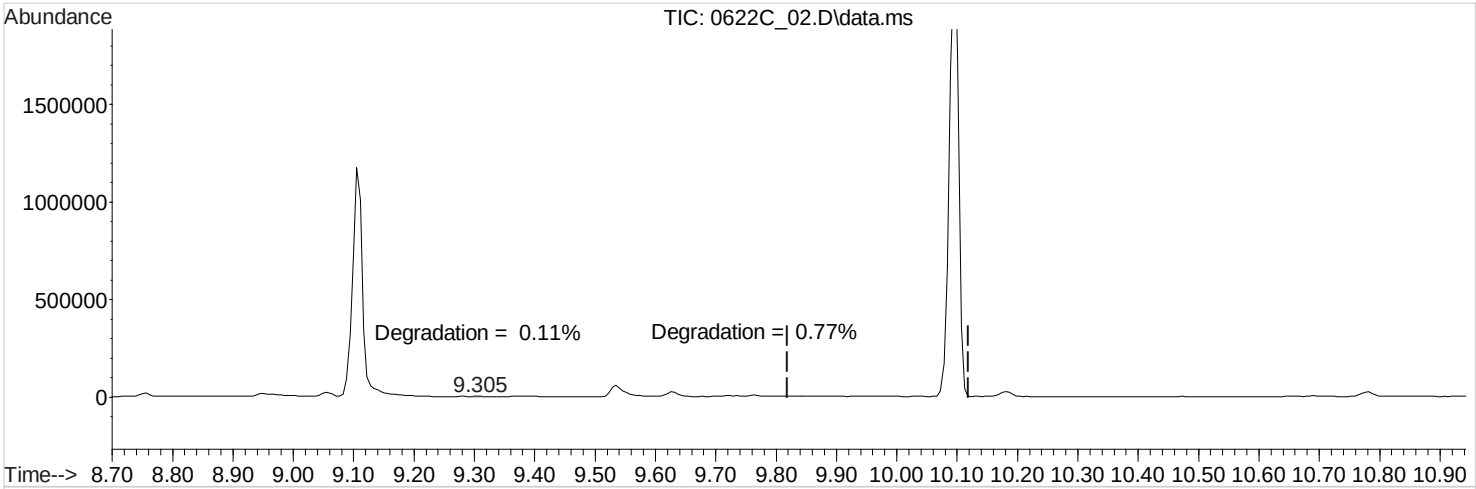
AutoFind: Scans 670, 671, 672; Background Corrected with Scan 666

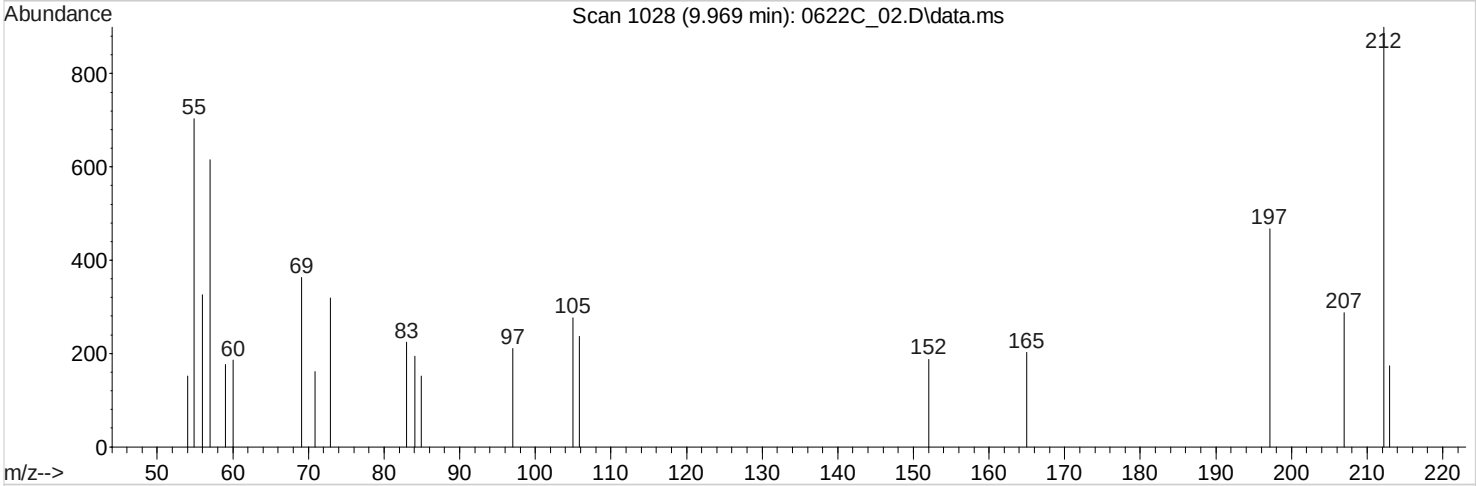
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	442	10	80	50.8	115501	PASS
68	69	0.00	2	1.9	1430	PASS
69	69	0.00	200	100.0	73361	PASS
70	69	0.00	2	0.6	472	PASS
127	442	10	80	44.8	101952	PASS
197	198	0.00	2	0.3	393	PASS
198	442	50	100	60.6	137963	PASS
199	198	5	9	6.8	9342	PASS
275	442	10	60	17.4	39645	PASS
365	442	1	100	4.5	10185	PASS
441	443	0.01	100	81.2	35624	PASS
442	442	50	100	100.0	227496	PASS
443	442	15	24	19.3	43888	PASS

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\062215C\
Data File : 0622C 02.D
Acq On : 23 Jun 2015 2:15 am
Operator : 280
Sample : TUNE DFTPP 2 PPM 15F12284
Misc : DFTPP TUNE 15F12284
ALS Vial : 2 Sample Multiplier: 1
InstName : BNAMS14

Quant Time: Jun 23 02:58:48 2015
Quant Method : C:\msdchem\1\METHODS\TUNE525.M
Quant Title :
QLast Update : Wed Dec 31 16:28:46 2014
Response via : Initial Calibration
DataAcq Meth:PAHMN.M





TIC: 0622C_02.D\data.ms

(4) DDT (T)

9.969min (-9.969) 0.0000000 ppm

Qvalue = 0

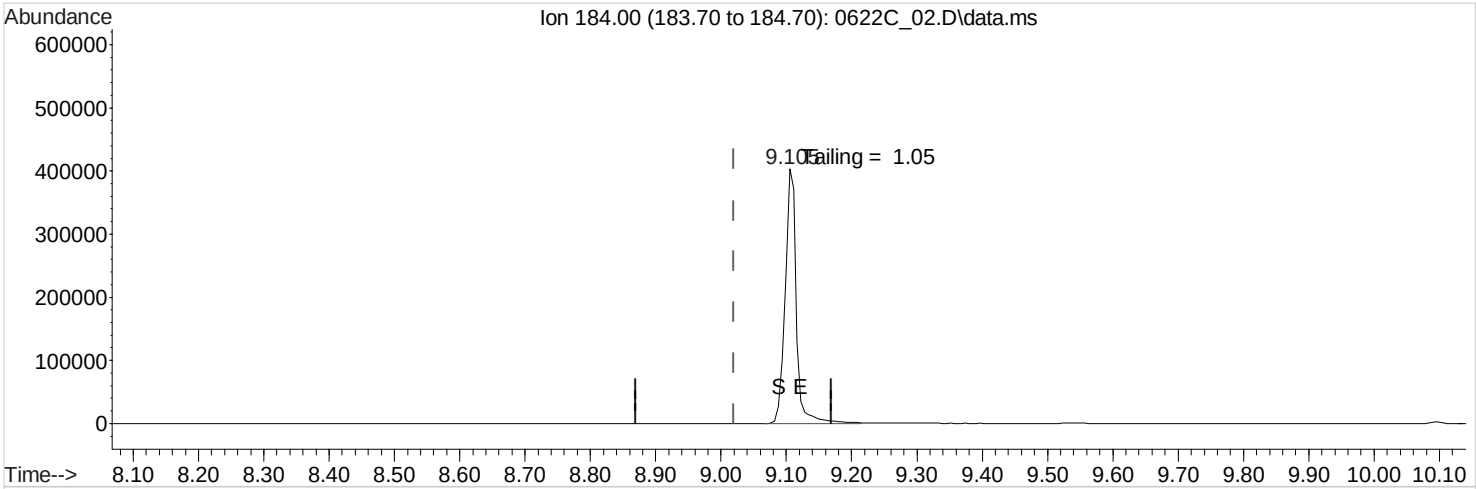
response 0

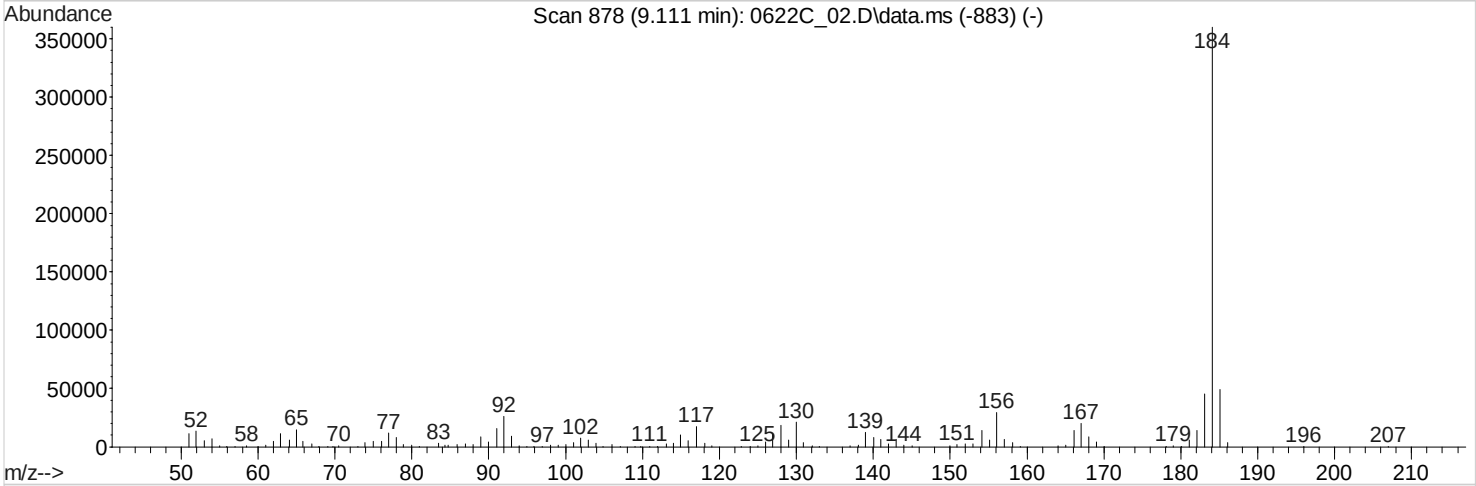
Signal	Exp%	Act%
TIC	100	0.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\062215C\
Data File : 0622C 02.D
Acq On : 23 Jun 2015 2:15 am
Operator : 280
Sample : TUNE DFTPP 2 PPM 15F12284
Misc : DFTPP TUNE 15F12284
ALS Vial : 2 Sample Multiplier: 1
InstName : BNAMS14

Quant Time: Jun 23 02:58:48 2015
Quant Method : C:\msdchem\1\METHODS\TUNE525.M
Quant Title :
QLast Update : Wed Dec 31 16:28:46 2014
Response via : Initial Calibration
DataAcq Meth:PAHMN.M





TIC: 0622C_02.D\data.ms

(3) Benzidine (T)

9.109min (+0.090) 0.1776324 ppm

Qvalue = 100

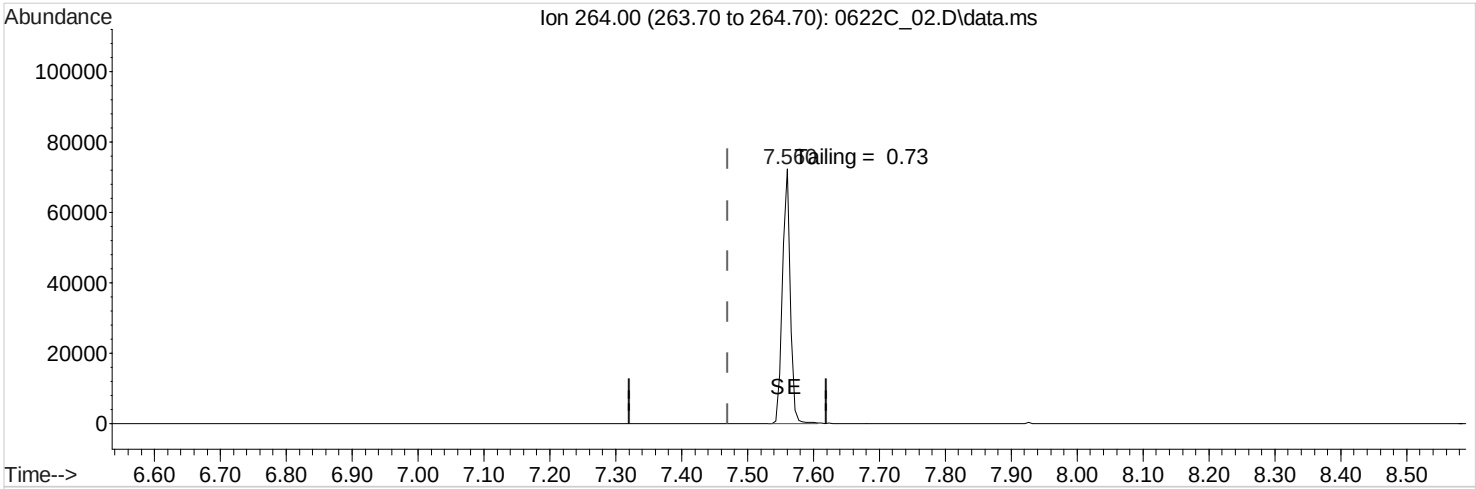
response 4405607

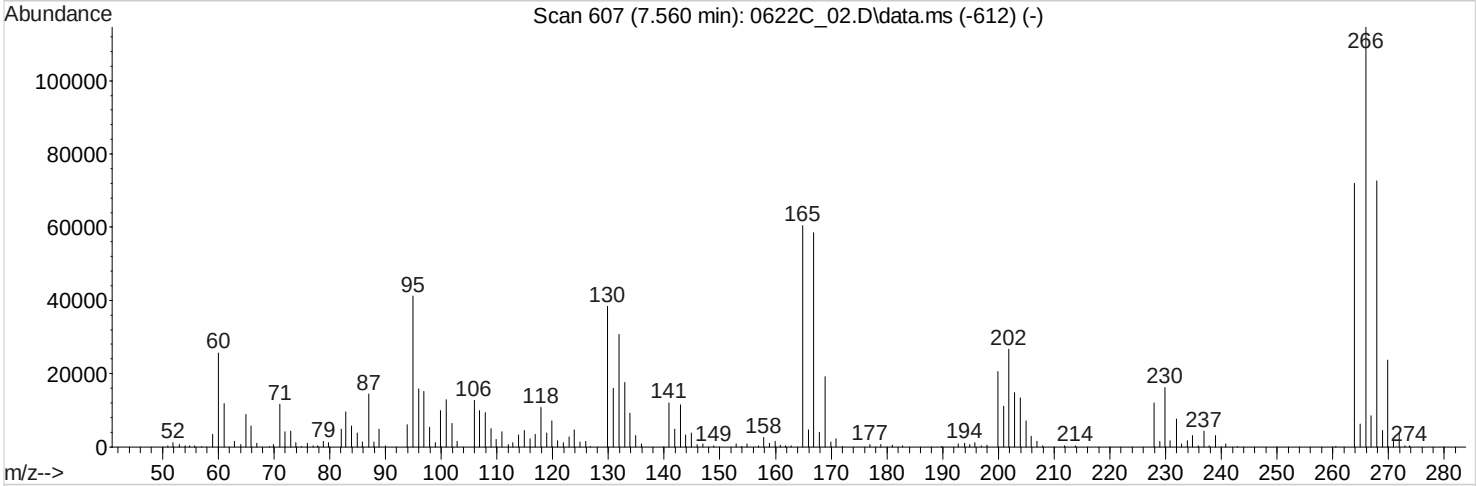
Ion	Exp%	Act%
184.00	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\DATA\062215C\
Data File : 0622C 02.D
Acq On    : 23 Jun 2015   2:15 am
Operator  : 280
Sample    : TUNE DFTPP 2 PPM 15F12284
Misc      : DFTPP TUNE 15F12284
ALS Vial  : 2   Sample Multiplier: 1
InstName  : BNAMS14

Quant Time: Jun 23 02:58:48 2015
Quant Method : C:\msdchem\1\METHODS\TUNE525.M
Quant Title  :
QLast Update : Wed Dec 31 16:28:46 2014
Response via : Initial Calibration
DataAcq Meth:PAHMN.M
```





TIC: 0622C_02.D\data.ms

(1) Pentachlorophenol (T)

7.562min (+0.092) 0.1537840 ppm

Qvalue = 100

response 577467

Ion	Exp%	Act%
264.00	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\062215C\
Data File : 0622C 03.D
Acq On : 23 Jun 2015 3:00 am
Operator : 280
Sample : ICV SIMLVI 40 PPB 15D23587
Misc : SIM STD
ALS Vial : 3 Sample Multiplier: 1
InstName : BNAMS14

Quant Time: Jun 23 03:19:33 2015
Quant Method : C:\msdchem\1\METHODS\SS14E27O.M
Quant Title : 8270 BNA
QLast Update : Thu May 28 07:46:25 2015
Response via : Initial Calibration
DataAcq Meth:SIMMN.M

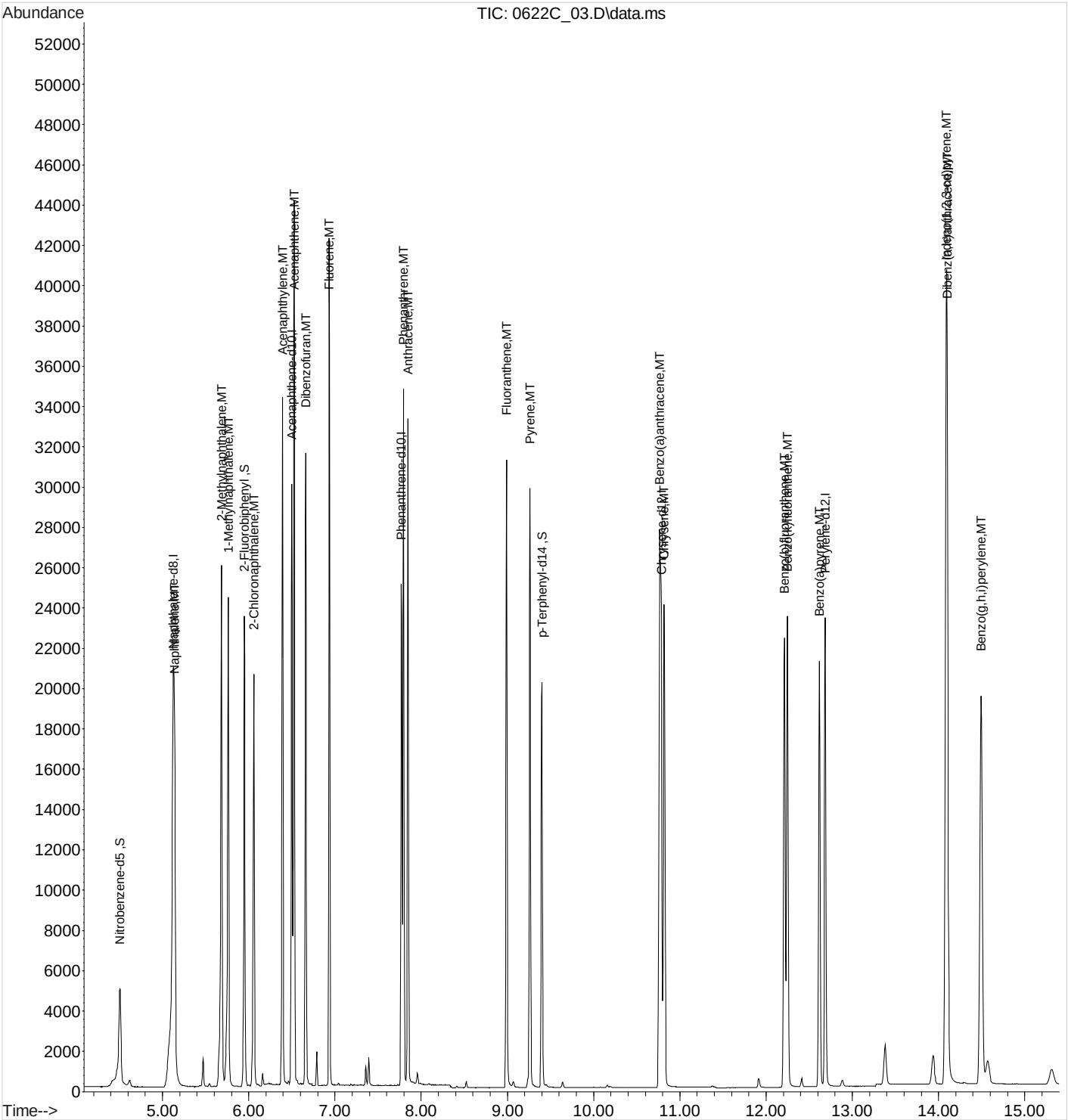
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8	5.120	136	23512	40.0000000	ppb	-0.02
6) Acenaphthene-d10	6.499	164	12760	40.0000000	ppb	-0.01
13) Phenanthrene-d10	7.770	188	20564	40.0000000	ppb	-0.01
17) Chrysene-d12	10.785	240	22637	40.0000000	ppb	0.00
22) Perylene-d12	12.687	264	23011	40.0000000	ppb	-0.01
System Monitoring Compounds						
2) Nitrobenzene-d5	4.505	82	7286	41.9688117	ppb	-0.01
Spiked Amount 2.000	Range 34 - 179		Recovery = 2098.44%#			
7) 2-Fluorobiphenyl	5.949	172	16182	38.0840866	ppb	-0.01
Spiked Amount 2.000	Range 56 - 150		Recovery = 1904.20%#			
19) p-Terphenyl-d14	9.399	244	17640	36.1396230	ppb	-0.01
Spiked Amount 2.000	Range 46 - 163		Recovery = 1806.98%#			
Target Compounds						Qvalue
3) Naphthalene	5.139	128	26229	42.0006420	ppb	99
4) 2-Methylnaphthalene	5.683	142	15609	39.9662185	ppb	94
5) 1-Methylnaphthalene	5.761	142	14507	40.3086859	ppb	99
8) 2-Chloronaphthalene	6.058	162	14505	37.5217645	ppb	99
9) Acenaphthylene	6.394	152	24119	41.9913899	ppb	98
10) Acenaphthene	6.526	153	14946	38.7695320	ppb	99
11) Dibenzofuran	6.661	168	19560	38.6105759	ppb	81
12) Fluorene	6.933	166	16399	38.7363867	ppb	99
14) Phenanthrene	7.794	178	21695	37.3355709	ppb	100
15) Anthracene	7.849	178	21831	40.2411923	ppb	98
16) Fluoranthene	8.988	202	22188	38.8687389	ppb	99
18) Pyrene	9.261	202	20156	34.8266500	ppb	99
20) Benzo(a)anthracene	10.767	228	21447	38.0920637	ppb	99
21) Chrysene	10.817	228	19897	34.6272229	ppb	99
23) Benzo(b)fluoranthene	12.214	252	23728	39.8313811	ppb	99
24) Benzo(k)fluoranthene	12.246	252	22031	37.1846535	ppb	99
25) Benzo(a)pyrene	12.617	252	20597	40.8251044	ppb	98
26) Indeno(1,2,3-cd)pyrene	14.087	276	29403	41.0115830	ppb	94
27) Dibenz(a,h)anthracene	14.098	278	24642	40.7513084	ppb	96
28) Benzo(g,h,i)perylene	14.494	276	24457	39.7137666	ppb	90

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\062215C\
Data File : 0622C 03.D
Acq On : 23 Jun 2015 3:00 am
Operator : 280
Sample : ICV SIMLVI 40 PPB 15D23587
Misc : SIM STD
ALS Vial : 3 Sample Multiplier: 1
InstName : BNAMS14

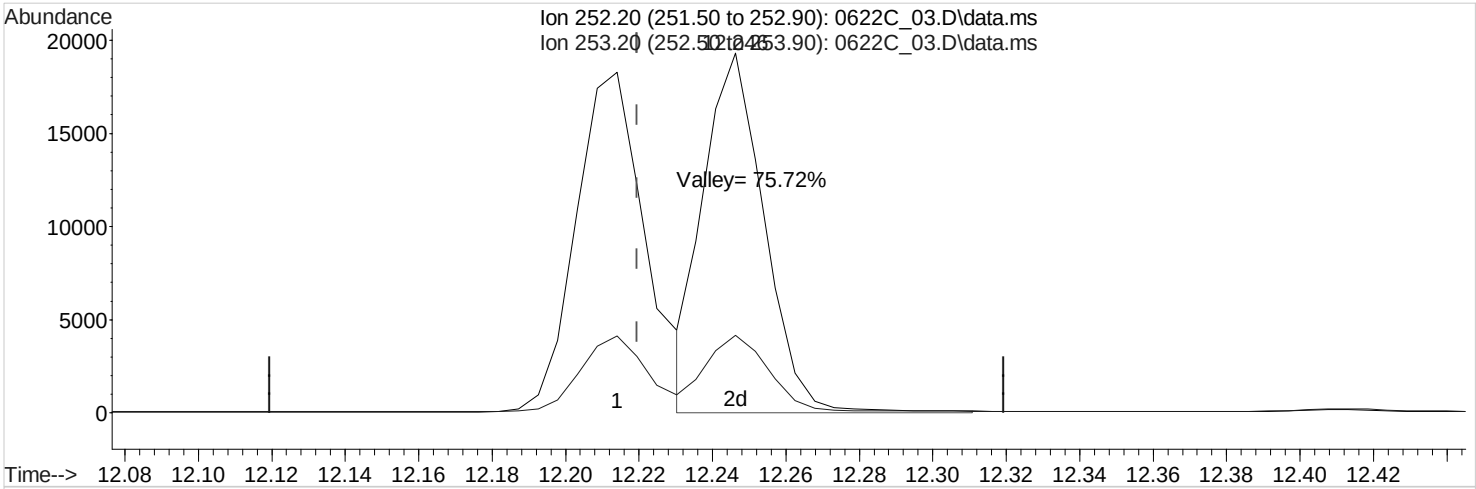
Quant Time: Jun 23 03:19:33 2015
Quant Method : C:\msdchem\1\METHODS\SS14E27O.M
Quant Title : 8270 BNA
QLast Update : Thu May 28 07:46:25 2015
Response via : Initial Calibration
DataAcq Meth:SIMMN.M

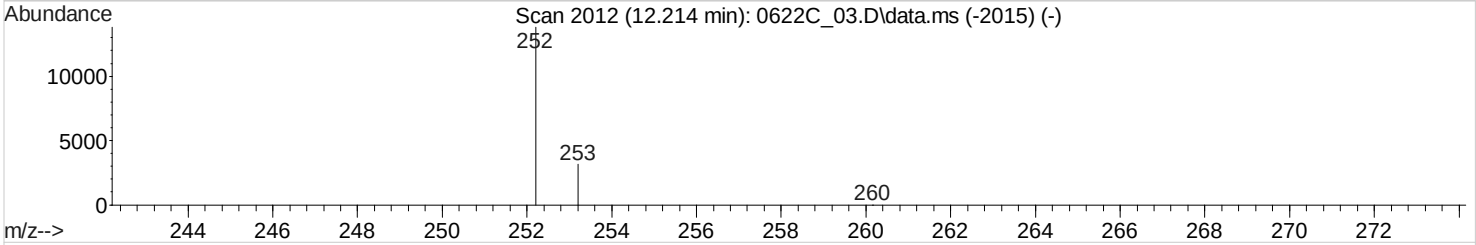


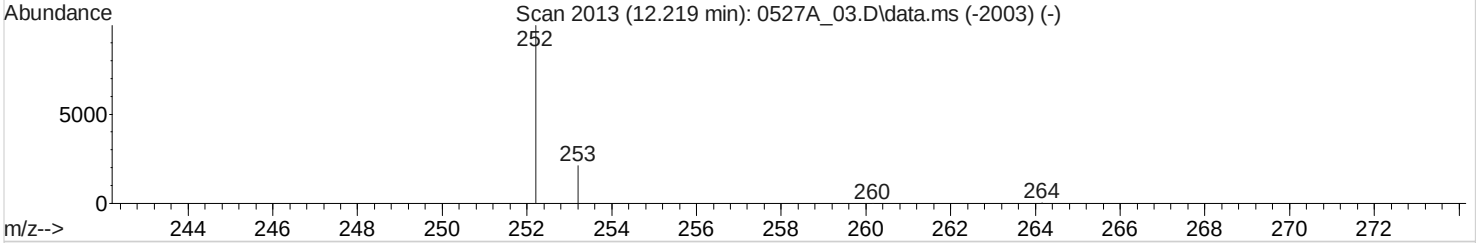
Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\DATA\062215C\
Data File : 0622C 03.D
Acq On    : 23 Jun 2015   3:00 am
Operator  : 280
Sample    : ICV SIMLVI 40 PPB 15D23587
Misc      : SIM STD
ALS Vial  : 3   Sample Multiplier: 1
InstName  : BNAMS14

Quant Time: Jun 23 03:19:33 2015
Quant Method : C:\msdchem\1\METHODS\SS14E27O.M
Quant Title  : 8270 BNA
QLast Update : Thu May 28 07:46:25 2015
Response via : Initial Calibration
DataAcq Meth:SIMMN.M
```







TIC: 0622C_03.D\data.ms

(23) Benzo(b)fluoranthene (MT)

12.214min (-0.005) 39.8313811 ppb

Qvalue = 99

response 23728

Ion	Exp%	Act%
252.20	100	100
253.20	21.80	22.32
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\062215C\
Data File : 0622C 04.D
Acq On : 23 Jun 2015 3:34 am
Operator : 280
Sample : LCS 1x WG797470 100-5
Misc : water 15E28383/15D14085
ALS Vial : 41 Sample Multiplier: 0.05
InstName : BNAMS14

Quant Time: Jun 23 04:44:49 2015
Quant Method : C:\msdchem\1\METHODS\SS14E27O.M
Quant Title : 8270 BNA
QLast Update : Thu May 28 07:46:25 2015
Response via : Initial Calibration
DataAcq Meth:SIMMN.M

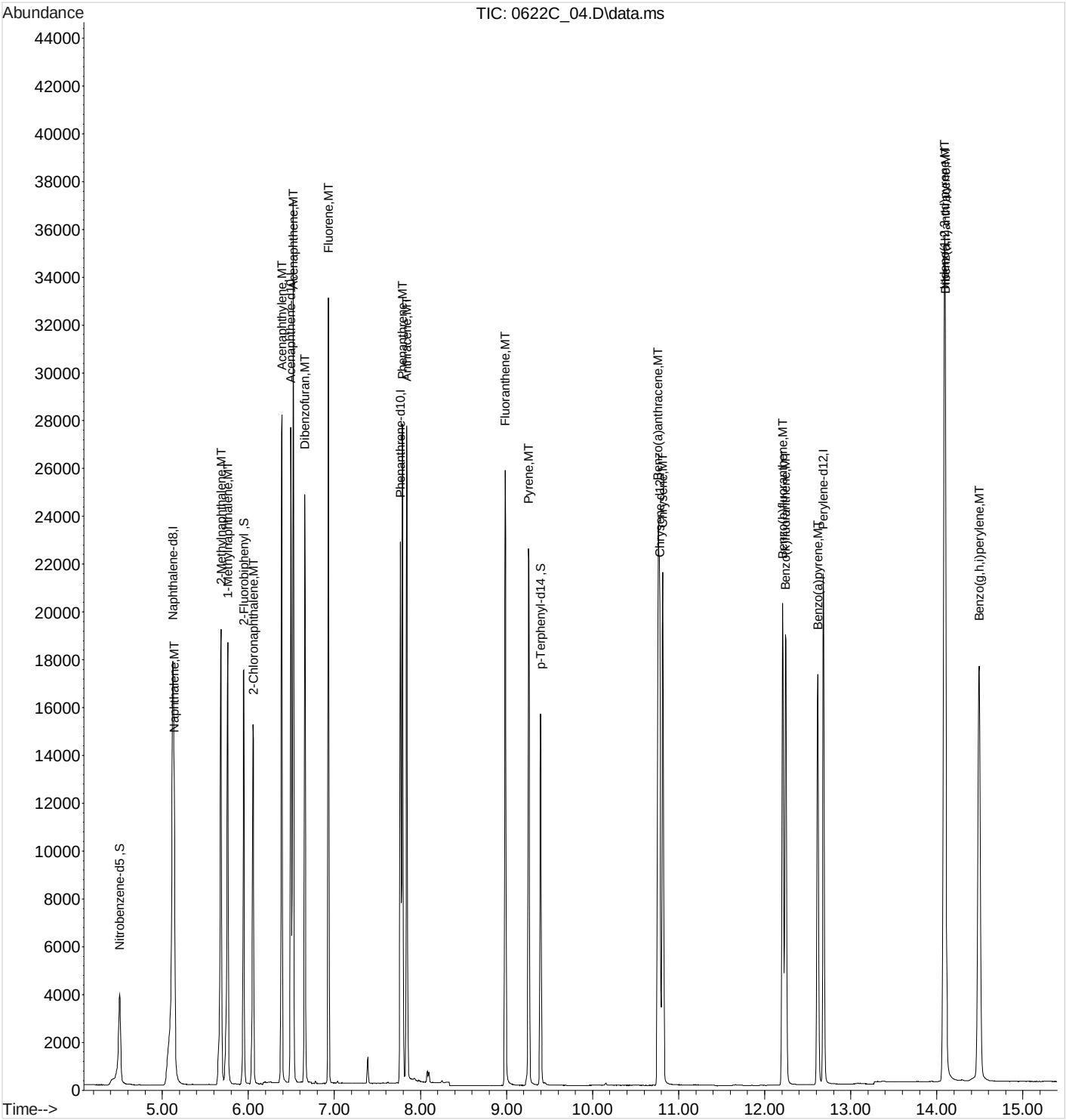
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8	5.120	136	21507	40.0000000	ppb	-0.02
6) Acenaphthene-d10	6.495	164	11579	40.0000000	ppb	-0.02
13) Phenanthrene-d10	7.770	188	19107	40.0000000	ppb	-0.01
17) Chrysene-d12	10.781	240	18873	40.0000000	ppb	-0.01
22) Perylene-d12	12.682	264	21654	40.0000000	ppb	-0.02
System Monitoring Compounds						
2) Nitrobenzene-d5	4.505	82	5510	1.7348776	ppb	-0.01
Spiked Amount 2.000	Range 34 - 179		Recovery = 86.74%			
7) 2-Fluorobiphenyl	5.949	172	12223	1.5850347	ppb	-0.01
Spiked Amount 2.000	Range 56 - 150		Recovery = 79.25%			
19) p-Terphenyl-d14	9.395	244	13608	1.6719654	ppb	-0.01
Spiked Amount 2.000	Range 46 - 163		Recovery = 83.60%			
Target Compounds						Qvalue
3) Naphthalene	5.139	128	17920	1.5685268	ppb	100
4) 2-Methylnaphthalene	5.683	142	11764	1.6464659	ppb	98
5) 1-Methylnaphthalene	5.761	142	11038	1.6764521	ppb	99
8) 2-Chloronaphthalene	6.058	162	11009	1.5691448	ppb	90
9) Acenaphthylene	6.390	152	18772	1.8007819	ppb	97
10) Acenaphthene	6.522	153	11776	1.6831119	ppb	98
11) Dibenzofuran	6.657	168	15525	1.6885684	ppb	71
12) Fluorene	6.929	166	13178	1.7151451	ppb	96
14) Phenanthrene	7.790	178	17881	1.6559226	ppb	100
15) Anthracene	7.841	178	18047	1.7901413	ppb	100
16) Fluoranthene	8.985	202	18733	1.7659350	ppb	99
18) Pyrene	9.257	202	17098	1.7717425	ppb	98
20) Benzo(a)anthracene	10.763	228	17930	1.9098364	ppb	98
21) Chrysene	10.817	228	16980	1.7722120	ppb	99
23) Benzo(b)fluoranthene	12.209	252	19652	1.7528242	ppb	100
24) Benzo(k)fluoranthene	12.241	252	20002	1.7937847	ppb	98
25) Benzo(a)pyrene	12.617	252	17643	1.8580745	ppb	100
26) Indeno(1,2,3-cd)pyrene	14.087	276	25442	1.8855302	ppb	95
27) Dibenz(a,h)anthracene	14.098	278	21432	1.8831966	ppb	93
28) Benzo(g,h,i)perylene	14.494	276	21562	1.8603485	ppb	90

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\062215C\
Data File : 0622C 04.D
Acq On : 23 Jun 2015 3:34 am
Operator : 280
Sample : LCS 1x WG797470 100-5
Misc : water 15E28383/15D14085
ALS Vial : 41 Sample Multiplier: 0.05
InstName : BNAMS14

Quant Time: Jun 23 04:44:49 2015
Quant Method : C:\msdchem\1\METHODS\SS14E27O.M
Quant Title : 8270 BNA
QLast Update : Thu May 28 07:46:25 2015
Response via : Initial Calibration
DataAcq Meth:SIMMN.M



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\062215C\
Data File : 0622C 05.D
Acq On : 23 Jun 2015 3:54 am
Operator : 280
Sample : LCSD 1x WG797470 100-5
Misc : water 15E28383/15D14085
ALS Vial : 42 Sample Multiplier: 0.05
InstName : BNAMS14

Quant Time: Jun 23 04:45:00 2015
Quant Method : C:\msdchem\1\METHODS\SS14E27O.M
Quant Title : 8270 BNA
QLast Update : Thu May 28 07:46:25 2015
Response via : Initial Calibration
DataAcq Meth:SIMMN.M

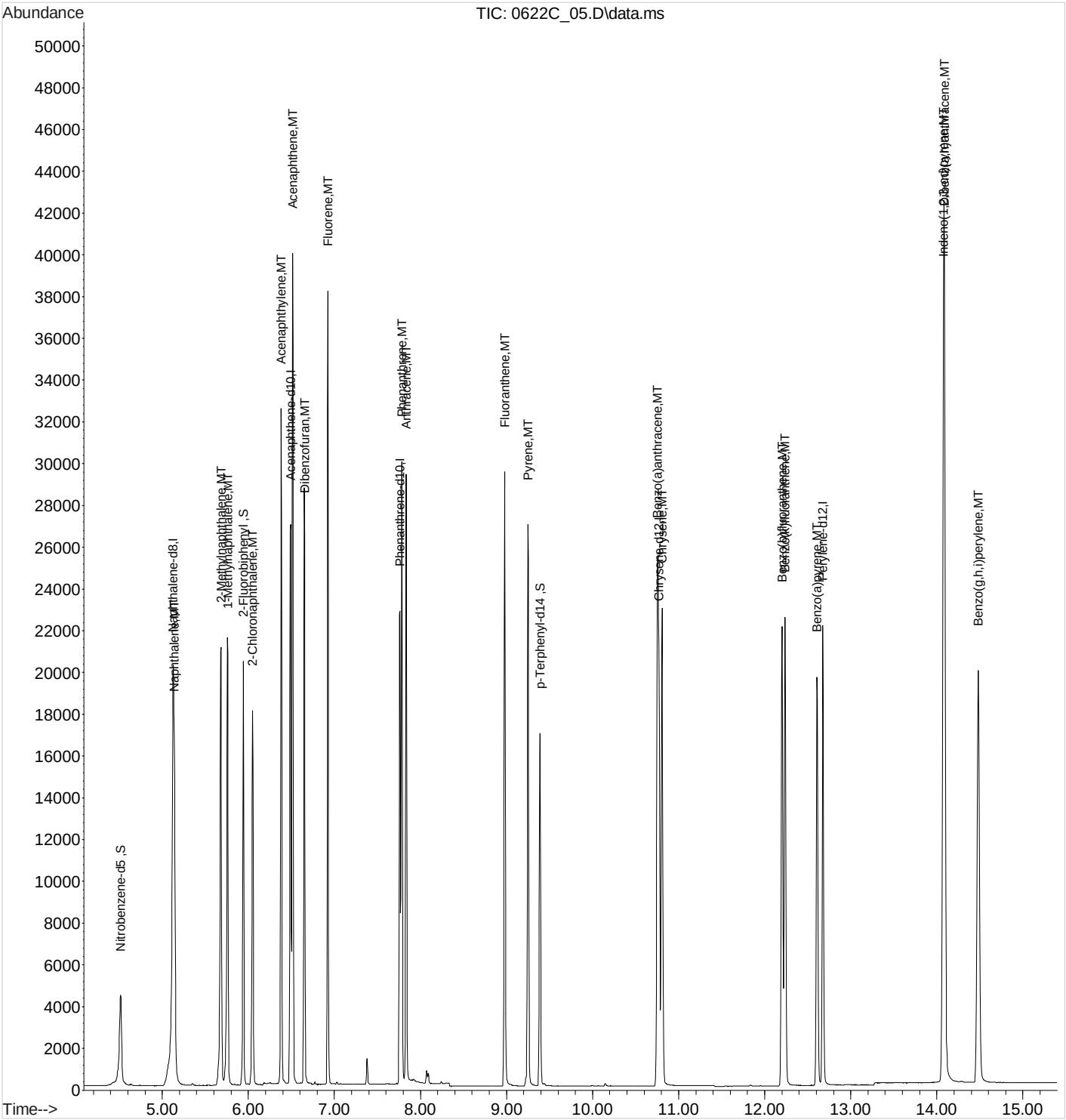
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8	5.124	136	22372	40.0000000	ppb	-0.02
6) Acenaphthene-d10	6.491	164	12016	40.0000000	ppb	-0.02
13) Phenanthrene-d10	7.762	188	19467	40.0000000	ppb	-0.02
17) Chrysene-d12	10.772	240	19133	40.0000000	ppb	-0.02
22) Perylene-d12	12.676	264	21726	40.0000000	ppb	-0.02
System Monitoring Compounds						
2) Nitrobenzene-d5	4.516	82	6157	1.8636374	ppb	0.00
Spiked Amount 2.000	Range 34 - 179		Recovery = 93.18%			
7) 2-Fluorobiphenyl	5.944	172	13392	1.6734685	ppb	-0.02
Spiked Amount 2.000	Range 56 - 150		Recovery = 83.67%			
19) p-Terphenyl-d14	9.387	244	14981	1.8156480	ppb	-0.02
Spiked Amount 2.000	Range 46 - 163		Recovery = 90.78%			
Target Compounds						Qvalue
3) Naphthalene	5.139	128	19836	1.6691027	ppb	100
4) 2-Methylnaphthalene	5.683	142	12942	1.7413022	ppb	98
5) 1-Methylnaphthalene	5.761	142	12235	1.7864044	ppb	96
8) 2-Chloronaphthalene	6.050	162	12216	1.6778584	ppb	99
9) Acenaphthylene	6.382	152	21007	1.9418950	ppb	97
10) Acenaphthene	6.514	153	13126	1.8078348	ppb	99
11) Dibenzofuran	6.653	168	17132	1.7955862	ppb	97
12) Fluorene	6.925	166	14718	1.8459133	ppb	97
14) Phenanthrene	7.782	178	19969	1.8150894	ppb	100
15) Anthracene	7.833	178	20250	1.9715183	ppb	99
16) Fluoranthene	8.977	202	20928	1.9363711	ppb	99
18) Pyrene	9.249	202	19049	1.9470869	ppb	98
20) Benzo(a)anthracene	10.753	228	19909	2.0918147	ppb	98
21) Chrysene	10.808	228	18873	1.9430179	ppb	99
23) Benzo(b)fluoranthene	12.203	252	22200	1.9735263	ppb	99
24) Benzo(k)fluoranthene	12.235	252	21675	1.9373780	ppb	99
25) Benzo(a)pyrene	12.606	252	19553	2.0524021	ppb	95
26) Indeno(1,2,3-cd)pyrene	14.076	276	28173	2.0810078	ppb	96
27) Dibenz(a,h)anthracene	14.087	278	23842	2.0880169	ppb	97
28) Benzo(g,h,i)perylene	14.483	276	23530	2.0234177	ppb	90

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\062215C\
Data File : 0622C 05.D
Acq On : 23 Jun 2015 3:54 am
Operator : 280
Sample : LCSD 1x WG797470 100-5
Misc : water 15E28383/15D14085
ALS Vial : 42 Sample Multiplier: 0.05
InstName : BNAMS14

Quant Time: Jun 23 04:45:00 2015
Quant Method : C:\msdchem\1\METHODS\SS14E27O.M
Quant Title : 8270 BNA
QLast Update : Thu May 28 07:46:25 2015
Response via : Initial Calibration
DataAcq Meth:SIMMN.M



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\062215C\
Data File : 0622C 06.D
Acq On : 23 Jun 2015 4:15 am
Operator : 280
Sample : BLANK 1x WG797470 100-5
Misc : water 15E28383/15D14085
ALS Vial : 43 Sample Multiplier: 0.05
InstName : BNAMS14

Quant Time: Jun 23 04:45:15 2015
Quant Method : C:\msdchem\1\METHODS\SS14E27O.M
Quant Title : 8270 BNA
QLast Update : Thu May 28 07:46:25 2015
Response via : Initial Calibration
DataAcq Meth:SIMMN.M

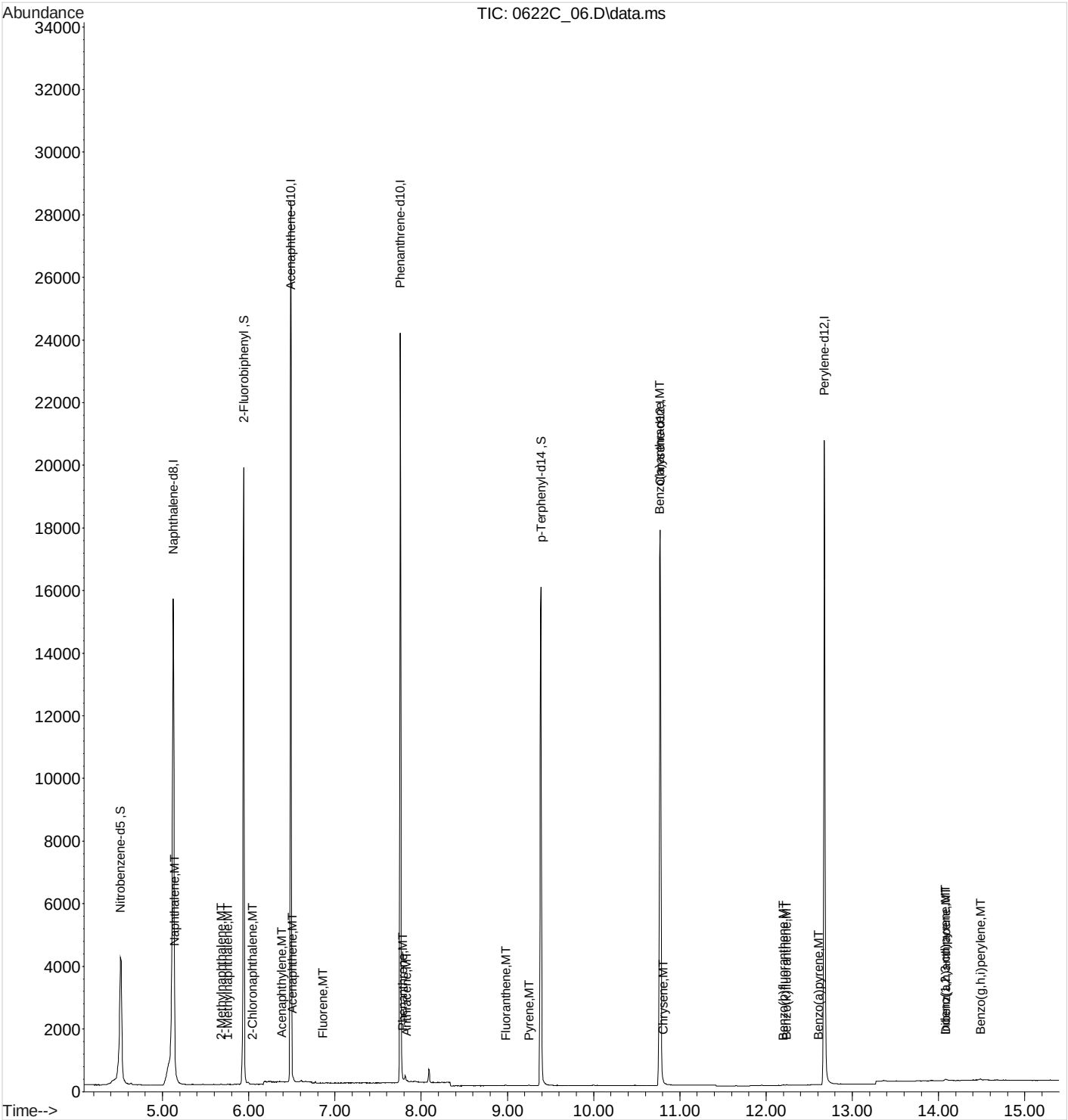
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Naphthalene-d8	5.124	136	22315	40.0000000	ppb		-0.01
6) Acenaphthene-d10	6.488	164	11951	40.0000000	ppb		-0.02
13) Phenanthrene-d10	7.758	188	19199	40.0000000	ppb		-0.02
17) Chrysene-d12	10.772	240	18384	40.0000000	ppb		-0.02
22) Perylene-d12	12.677	264	20980	40.0000000	ppb		-0.02
System Monitoring Compounds							
2) Nitrobenzene-d5	4.512	82	5786	1.7558145	ppb		0.00
Spiked Amount 2.000	Range 34 - 179		Recovery = 87.79%				
7) 2-Fluorobiphenyl	5.941	172	12940	1.6257810	ppb		-0.02
Spiked Amount 2.000	Range 56 - 150		Recovery = 81.29%				
19) p-Terphenyl-d14	9.387	244	14069	1.7745863	ppb		-0.02
Spiked Amount 2.000	Range 46 - 163		Recovery = 88.73%				
Target Compounds							Qvalue
3) Naphthalene	5.139	128	37	0.0031213	ppb		83
4) 2-Methylnaphthalene	5.679	142	8	0.0010791	ppb		89
5) 1-Methylnaphthalene	5.757	142	8	0.0011710	ppb	#	70
8) 2-Chloronaphthalene	6.046	162	6	0.0008286	ppb		85
9) Acenaphthylene	6.382	152	4	0.0003718	ppb		79
10) Acenaphthene	6.503	153	7	0.0009693	ppb	#	32
11) Dibenzofuran	0.000		0	N.D.			
12) Fluorene	6.858	166	4	0.0005044	ppb		97
14) Phenanthrene	7.782	178	19	0.0017511	ppb		92
15) Anthracene	7.829	178	7	0.0006910	ppb		83
16) Fluoranthene	8.977	202	21	0.0019702	ppb		97
18) Pyrene	9.250	202	22	0.0023403	ppb		96
20) Benzo(a)anthracene	10.767	228	63	0.0068890	ppb		73
21) Chrysene	10.804	228	21	0.0022501	ppb		88
23) Benzo(b)fluoranthene	12.198	252	24	0.0022094	ppb		99
24) Benzo(k)fluoranthene	12.236	252	25	0.0023140	ppb		79
25) Benzo(a)pyrene	12.607	252	14	0.0015218	ppb		94
26) Indeno(1,2,3-cd)pyrene	14.076	276	32	0.0024477	ppb	#	50
27) Dibenz(a,h)anthracene	14.082	278	37	0.0033556	ppb	#	61
28) Benzo(g,h,i)perylene	14.488	276	48	0.0042744	ppb		99

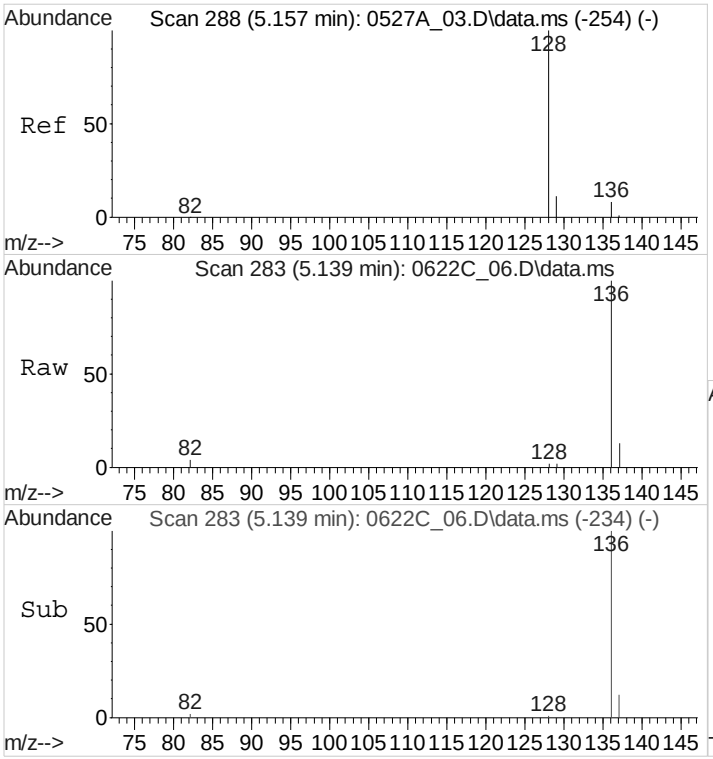
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\062215C\
Data File : 0622C 06.D
Acq On : 23 Jun 2015 4:15 am
Operator : 280
Sample : BLANK 1x WG797470 100-5
Misc : water 15E28383/15D14085
ALS Vial : 43 Sample Multiplier: 0.05
InstName : BNAMS14

Quant Time: Jun 23 04:45:15 2015
Quant Method : C:\msdchem\1\METHODS\SS14E27O.M
Quant Title : 8270 BNA
QLast Update : Thu May 28 07:46:25 2015
Response via : Initial Calibration
DataAcq Meth:SIMMN.M

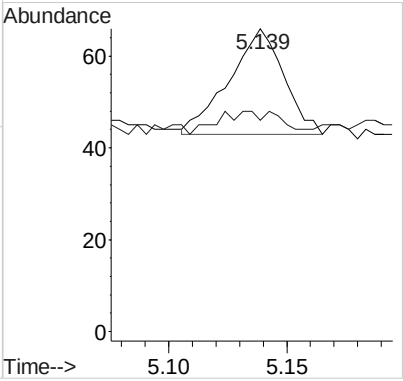


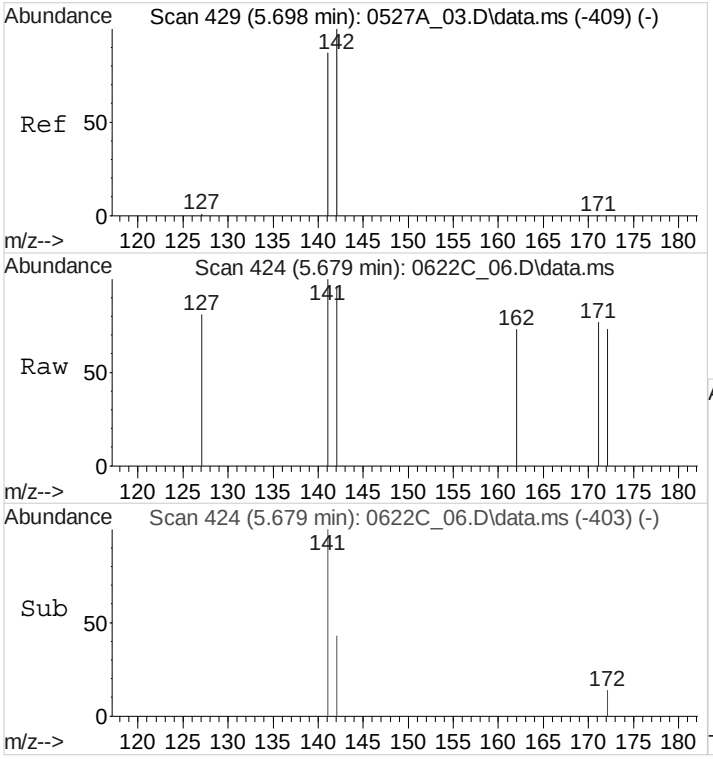


#3
Naphthalene
Concen: 0.0031213 ppb
RT: 5.139 min Scan# 283
Delta R.T. -0.019 min
Lab File: 0622C 06.D
Acq: 23 Jun 2015 4:15 am

Tgt Ion:128 Resp: 37

Ion	Ratio	Lower	Upper
128	100		
129	4.3	0.0	30.7

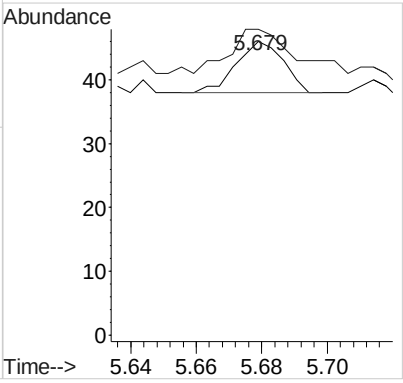


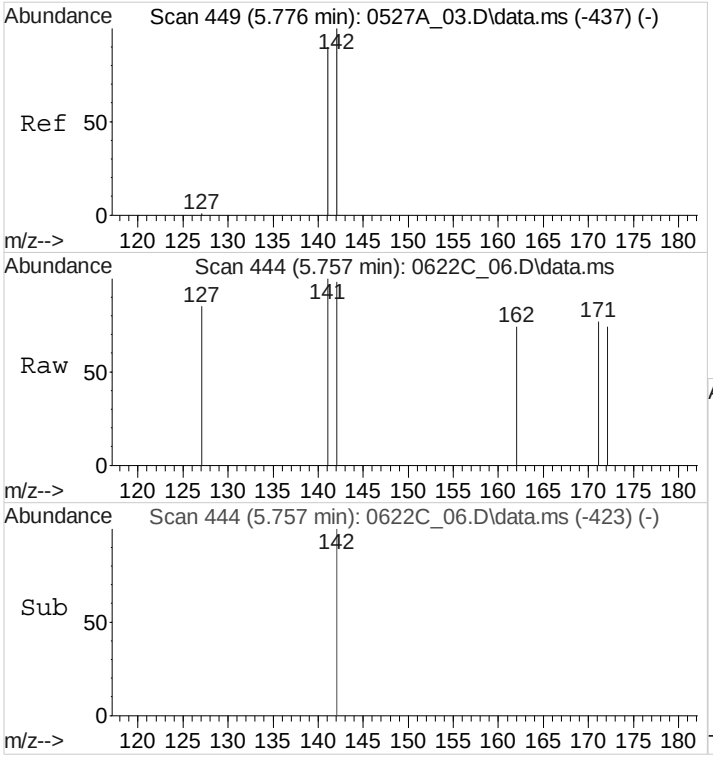


#4
2-Methylnaphthalene
Concen: 0.0010791 ppb
RT: 5.679 min Scan# 424
Delta R.T. -0.019 min
Lab File: 0622C_06.D
Acq: 23 Jun 2015 4:15 am

Tgt Ion:142 Resp: 8

Ion	Ratio	Lower	Upper
142	100		
141	75.0	65.0	105.0

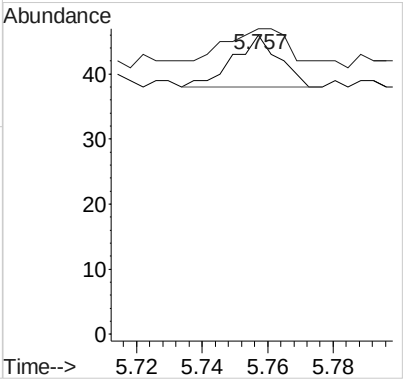


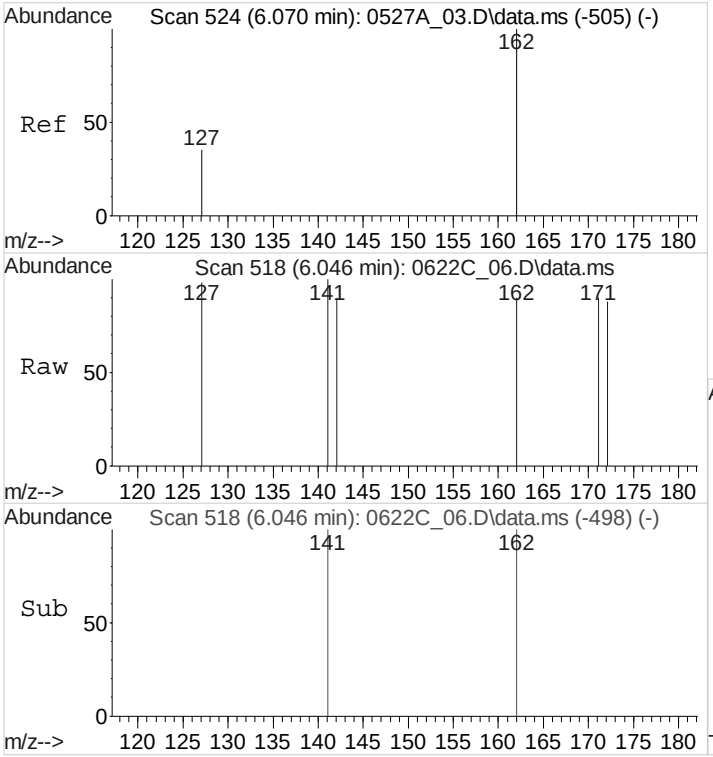


#5
1-Methylnaphthalene
Concen: 0.0011710 ppb
RT: 5.757 min Scan# 444
Delta R.T. -0.019 min
Lab File: 0622C 06.D
Acq: 23 Jun 2015 4:15 am

Tgt Ion:142 Resp: 8

Ion	Ratio	Lower	Upper
142	100		
141	62.5	71.5	111.5#

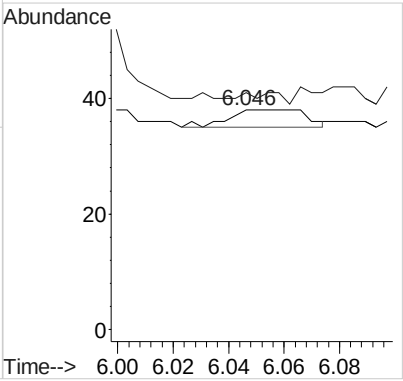


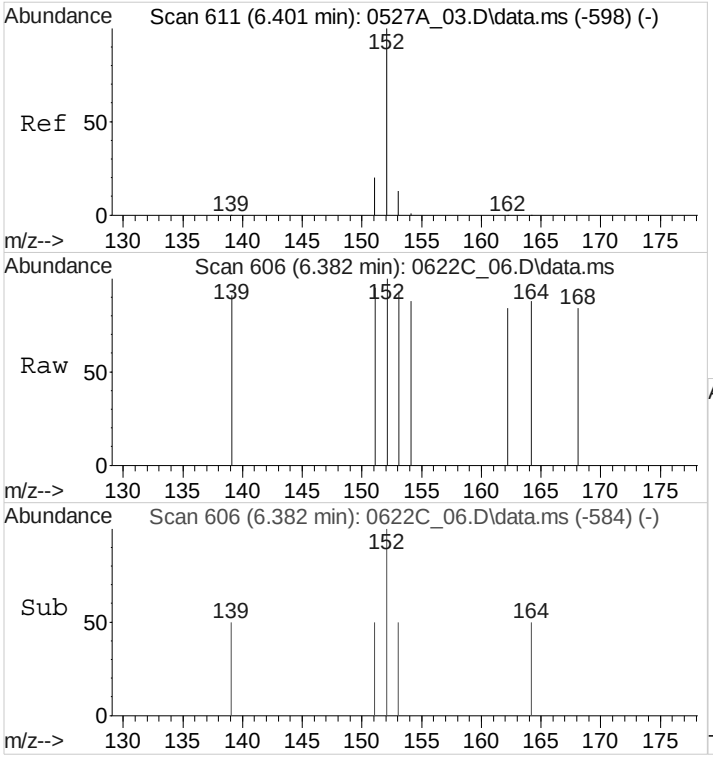


#8
2-Chloronaphthalene
Concen: 0.0008286 ppb
RT: 6.046 min Scan# 518
Delta R.T. -0.023 min
Lab File: 0622C_06.D
Acq: 23 Jun 2015 4:15 am

Tgt Ion:162 Resp: 6

Ion	Ratio	Lower	Upper
162	100		
127	33.3	23.1	63.1

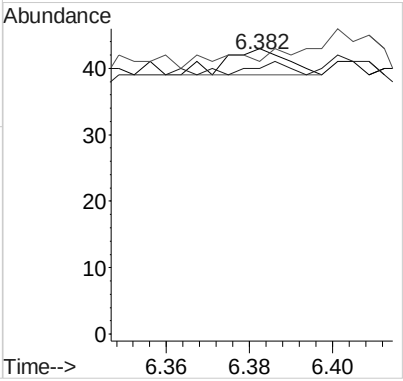


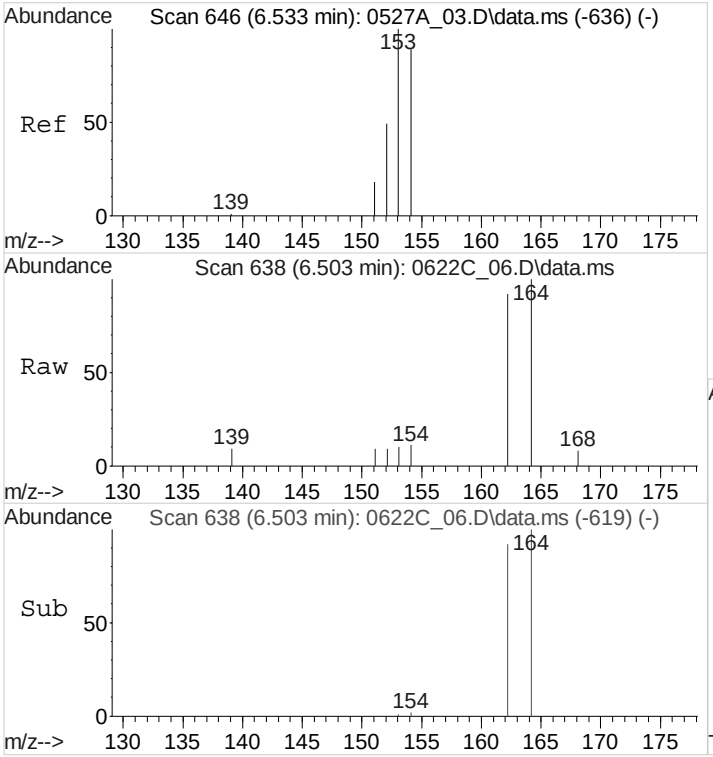


#9
Acenaphthylene
Concen: 0.0003718 ppb
RT: 6.382 min Scan# 606
Delta R.T. -0.019 min
Lab File: 0622C 06.D
Acq: 23 Jun 2015 4:15 am

Tgt Ion:152 Resp: 4

Ion	Ratio	Lower	Upper
152	100		
153	0.0	0.0	33.2
151	25.0	0.0	39.2

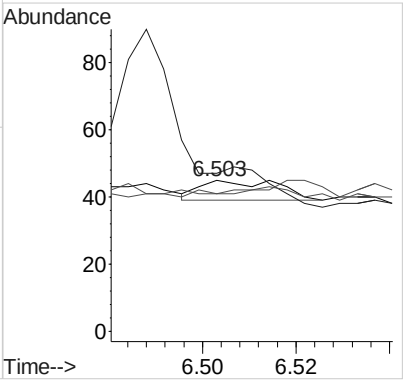


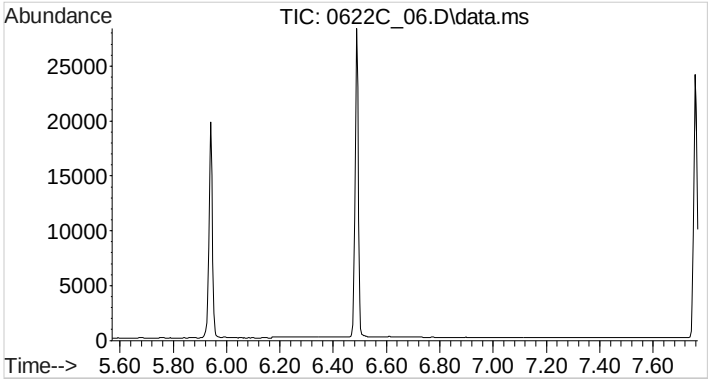


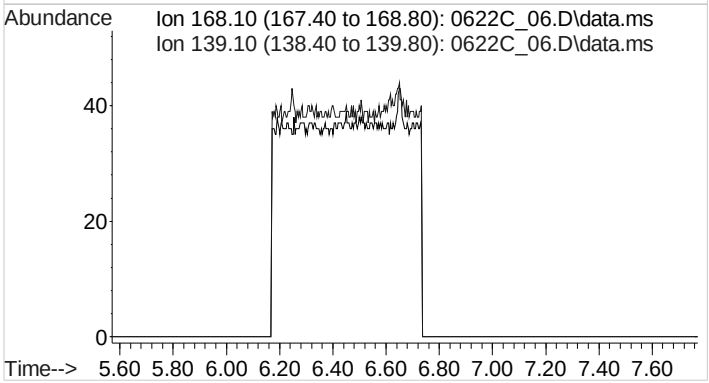
#10
Acenaphthene
Concen: 0.0009693 ppb
RT: 6.503 min Scan# 638
Delta R.T. -0.030 min
Lab File: 0622C_06.D
Acq: 23 Jun 2015 4:15 am

Tgt Ion:153 Resp: 7

Ion	Ratio	Lower	Upper
153	100		
154	166.7	67.3	107.3#
152	16.7	29.2	69.2#
151	0.0	0.0	38.7





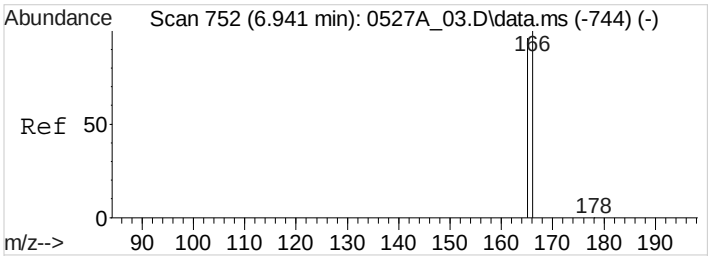


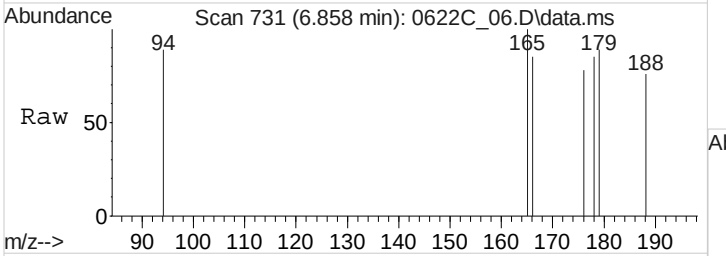
#11
Dibenzofuran
Concen: N.D.
Expected RT: 6.67 min

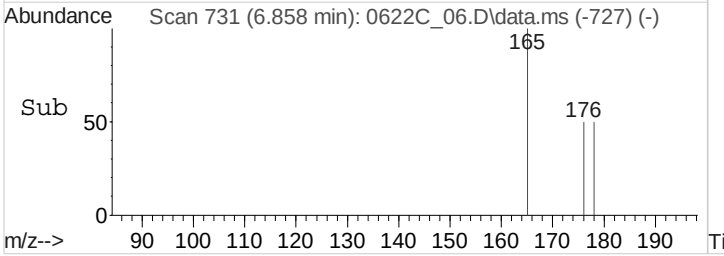
Lab File: 0622C 06.D
Acq: 23 Jun 2015 4:15 am

Tgt Ion: 168

Sig	Exp Ratio
168	100
139	28.5



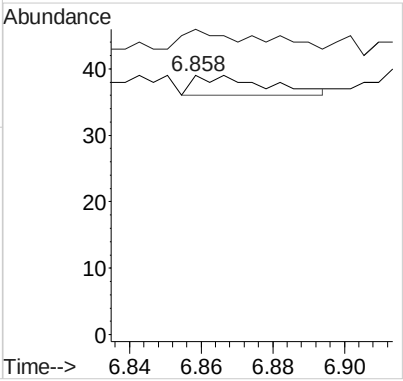


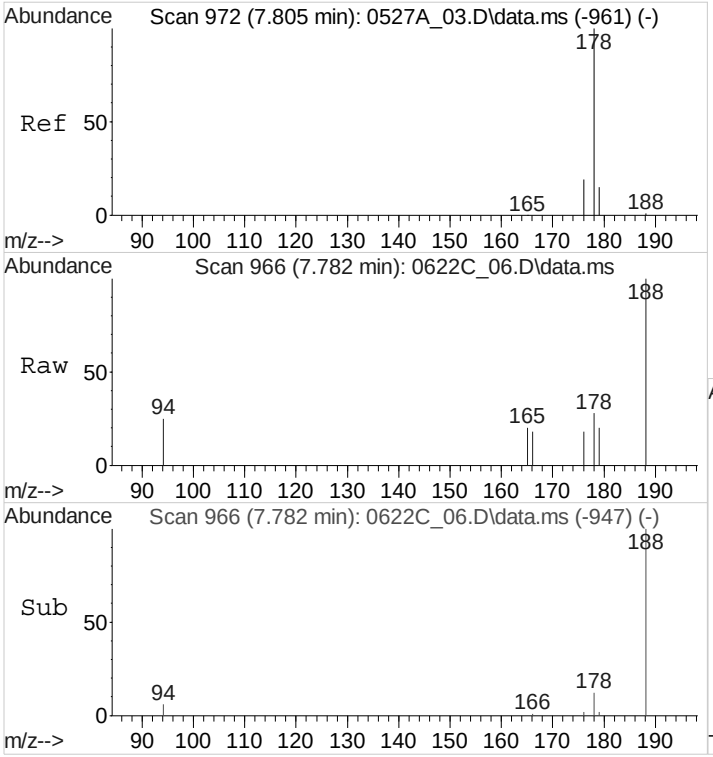


#12
Fluorene
Concen: 0.0005044 ppb
RT: 6.858 min Scan# 731
Delta R.T. -0.082 min
Lab File: 0622C_06.D
Acq: 23 Jun 2015 4:15 am

Tgt Ion:166 Resp: 4

Ion	Ratio	Lower	Upper
166	100		
165	100.0	76.9	116.9

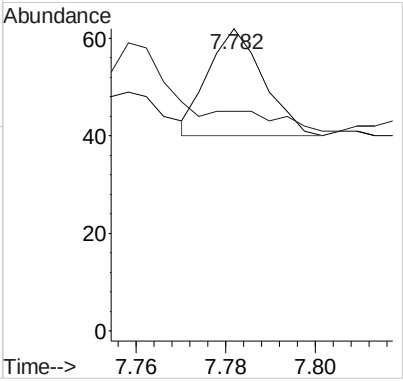


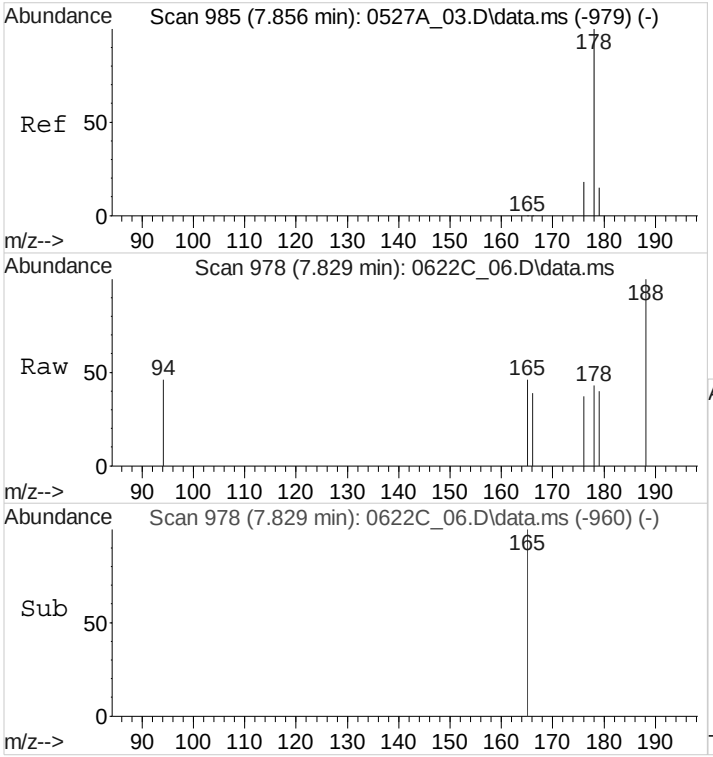


#14
Phenanthrene
Concen: 0.0017511 ppb
RT: 7.782 min Scan# 966
Delta R.T. -0.023 min
Lab File: 0622C 06.D
Acq: 23 Jun 2015 4:15 am

Tgt Ion:178 Resp: 19

Ion	Ratio	Lower	Upper
178	100		
179	18.2	0.0	35.0

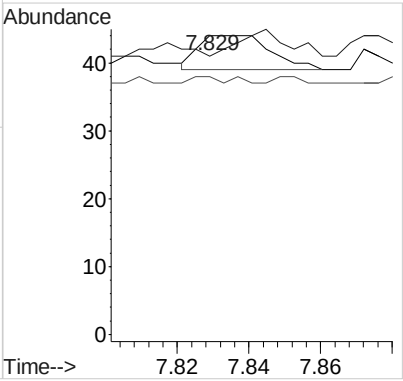


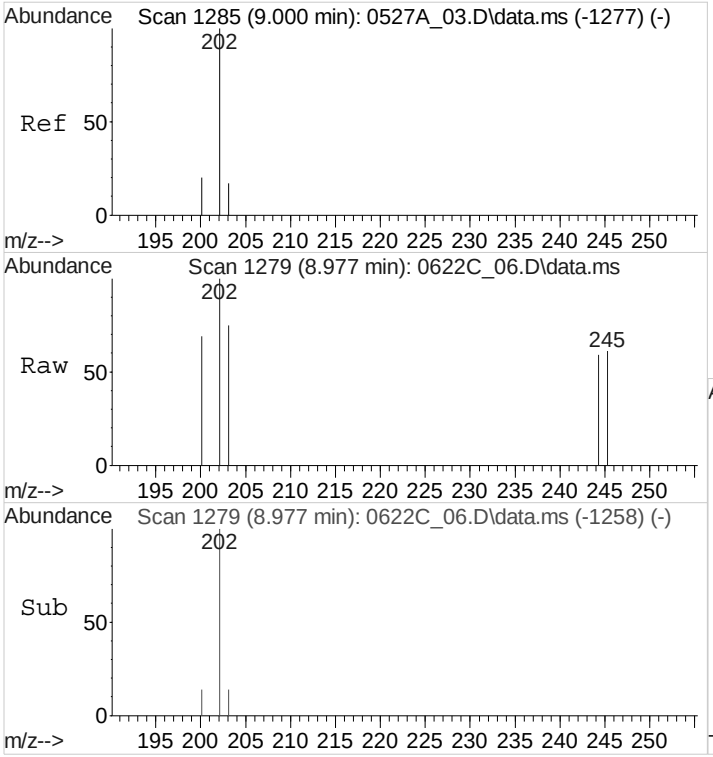


#15
Anthracene
Concen: 0.0006910 ppb
RT: 7.829 min Scan# 978
Delta R.T. -0.027 min
Lab File: 0622C_06.D
Acq: 23 Jun 2015 4:15 am

Tgt Ion:178 Resp: 7

Ion	Ratio	Lower	Upper
178	100		
179	0.0	0.0	34.7
176	20.0	0.0	39.1

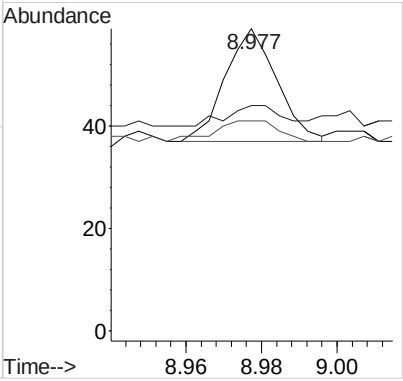


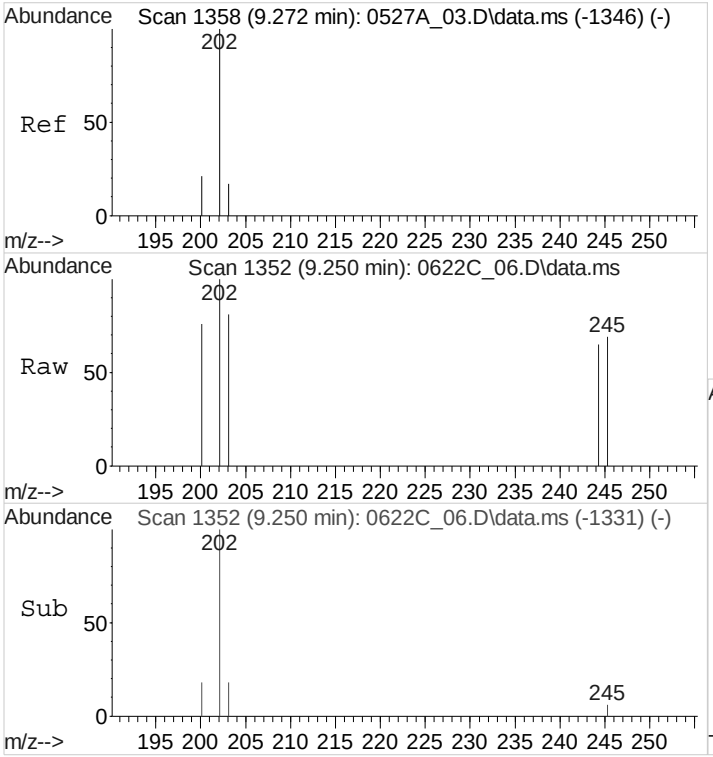


#16
Fluoranthene
Concen: 0.0019702 ppb
RT: 8.977 min Scan# 1279
Delta R.T. -0.022 min
Lab File: 0622C 06.D
Acq: 23 Jun 2015 4:15 am

Tgt Ion:202 Resp: 21

Ion	Ratio	Lower	Upper
202	100		
203	18.2	0.0	37.1
200	18.2	0.0	39.8

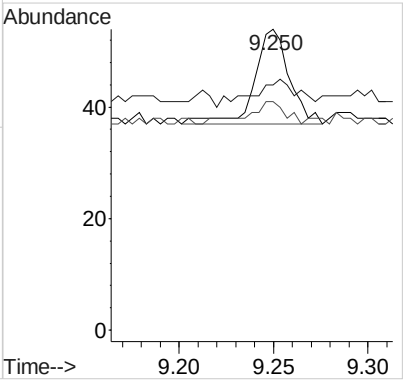


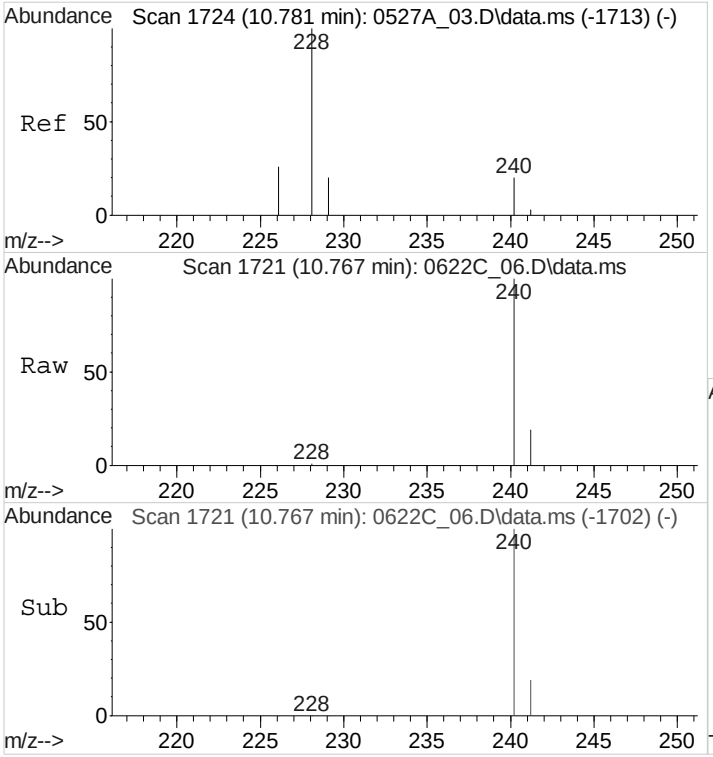


#18
Pyrene
Concen: 0.0023403 ppb
RT: 9.250 min Scan# 1352
Delta R.T. -0.022 min
Lab File: 0622C_06.D
Acq: 23 Jun 2015 4:15 am

Tgt Ion:202 Resp: 22

Ion	Ratio	Lower	Upper
202	100		
203	17.6	0.0	36.8
200	17.6	0.4	40.4

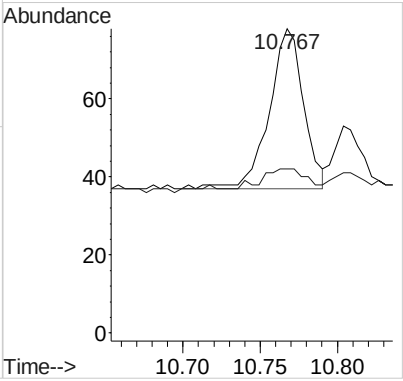


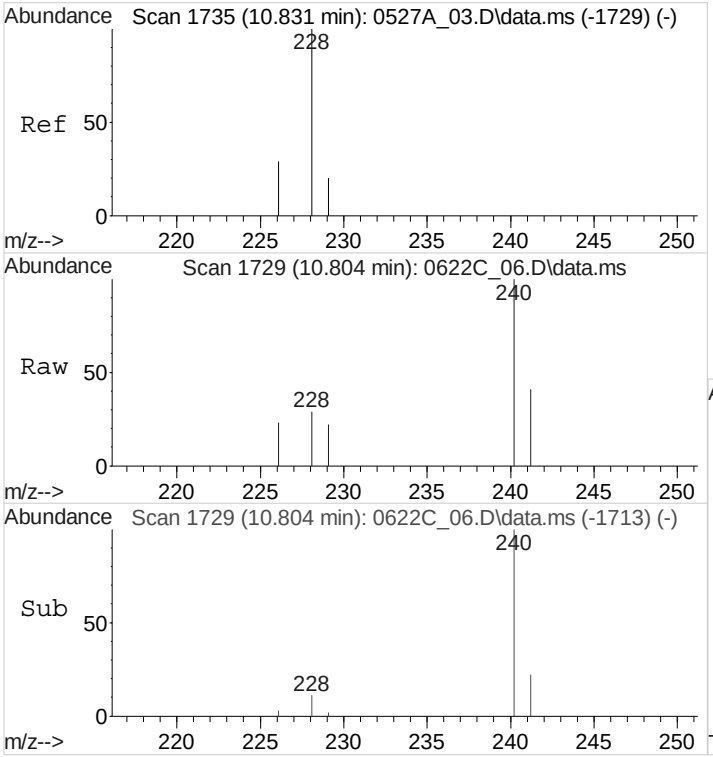


#20
Benzo(a)anthracene
Concen: 0.0068890 ppb
RT: 10.767 min Scan# 1721
Delta R.T. -0.014 min
Lab File: 0622C 06.D
Acq: 23 Jun 2015 4:15 am

Tgt Ion:228 Resp: 63

Ion	Ratio	Lower	Upper
228	100		
226	12.2	5.9	45.9

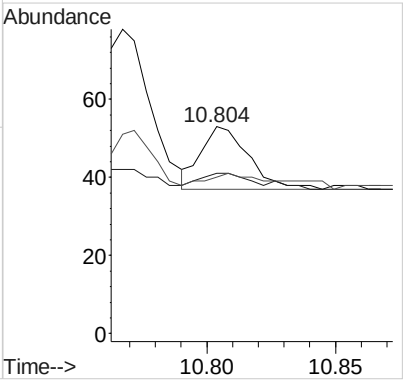


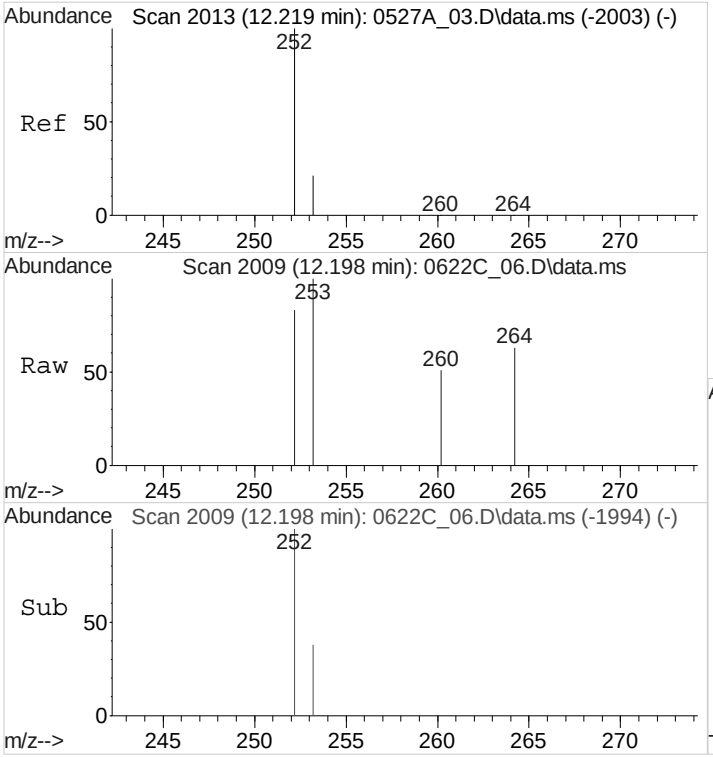


#21
Chrysene
Concen: 0.0022501 ppb
RT: 10.804 min Scan# 1729
Delta R.T. -0.027 min
Lab File: 0622C_06.D
Acq: 23 Jun 2015 4:15 am

Tgt Ion:228 Resp: 21

Ion	Ratio	Lower	Upper
228	100		
226	25.0	9.9	49.9
229	12.5	0.0	39.9

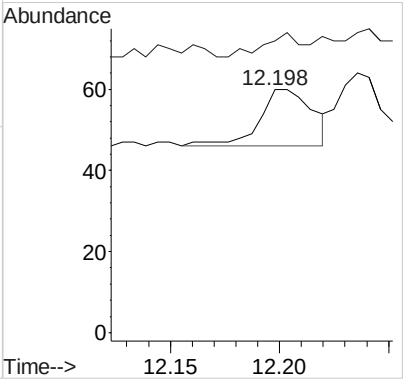


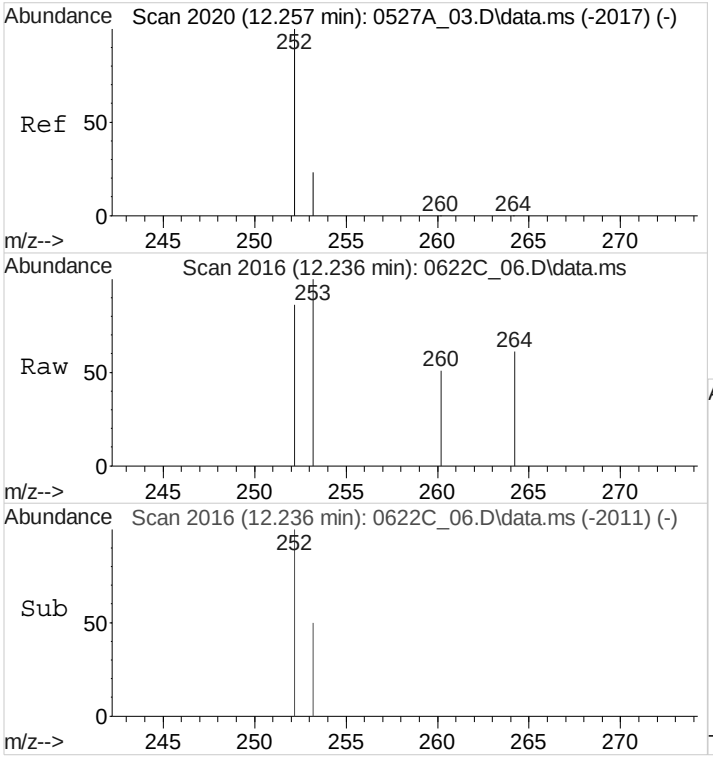


#23
Benzo(b)fluoranthene
Concen: 0.0022094 ppb
RT: 12.198 min Scan# 2009
Delta R.T. -0.021 min
Lab File: 0622C 06.D
Acq: 23 Jun 2015 4:15 am

Tgt Ion:252 Resp: 24

Ion	Ratio	Lower	Upper
252	100		
253	21.4	1.8	41.8

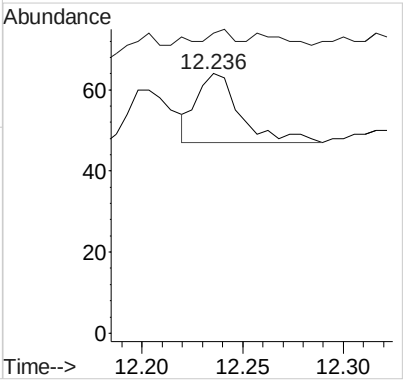


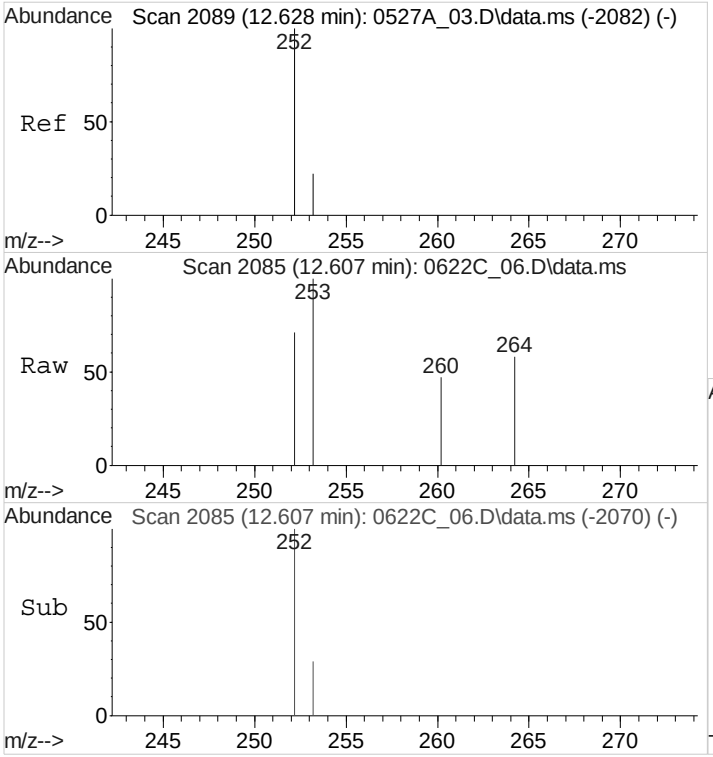


#24
Benzo(k)fluoranthene
Concen: 0.0023140 ppb
RT: 12.236 min Scan# 2016
Delta R.T. -0.021 min
Lab File: 0622C_06.D
Acq: 23 Jun 2015 4:15 am

Tgt Ion:252 Resp: 25

Ion	Ratio	Lower	Upper
252	100		
253	11.8	1.5	41.5

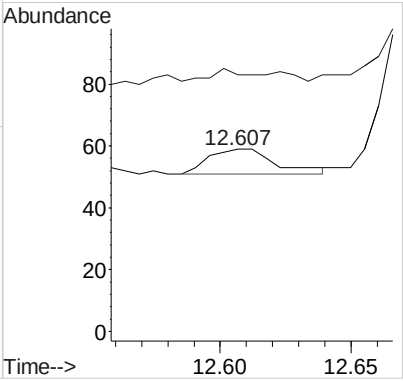


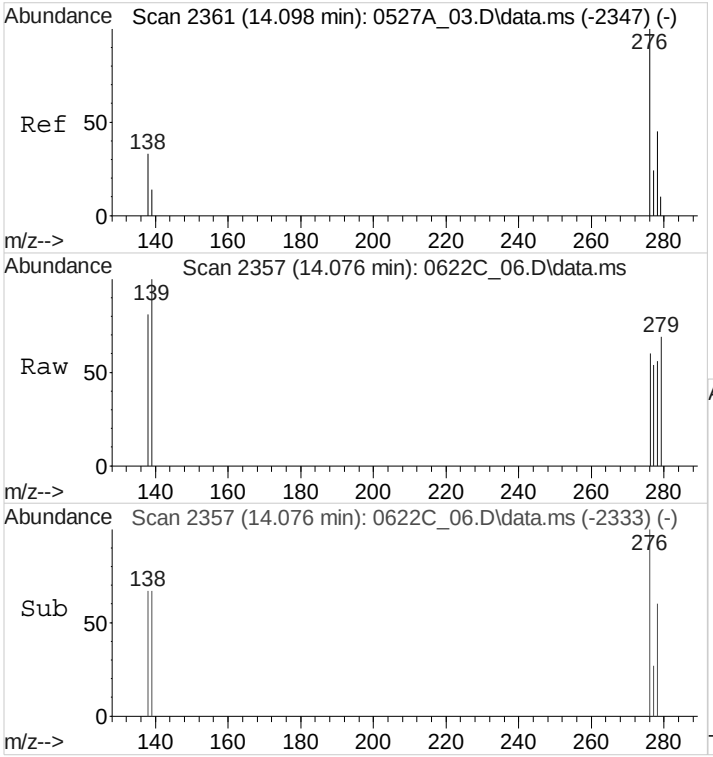


#25
Benzo(a)pyrene
Concen: 0.0015218 ppb
RT: 12.607 min Scan# 2085
Delta R.T. -0.021 min
Lab File: 0622C 06.D
Acq: 23 Jun 2015 4:15 am

Tgt Ion:252 Resp: 14

Ion	Ratio	Lower	Upper
252	100		
253	25.0	2.2	42.2

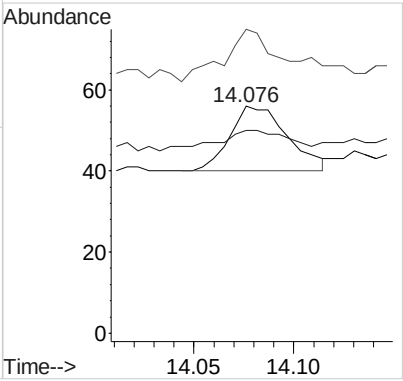


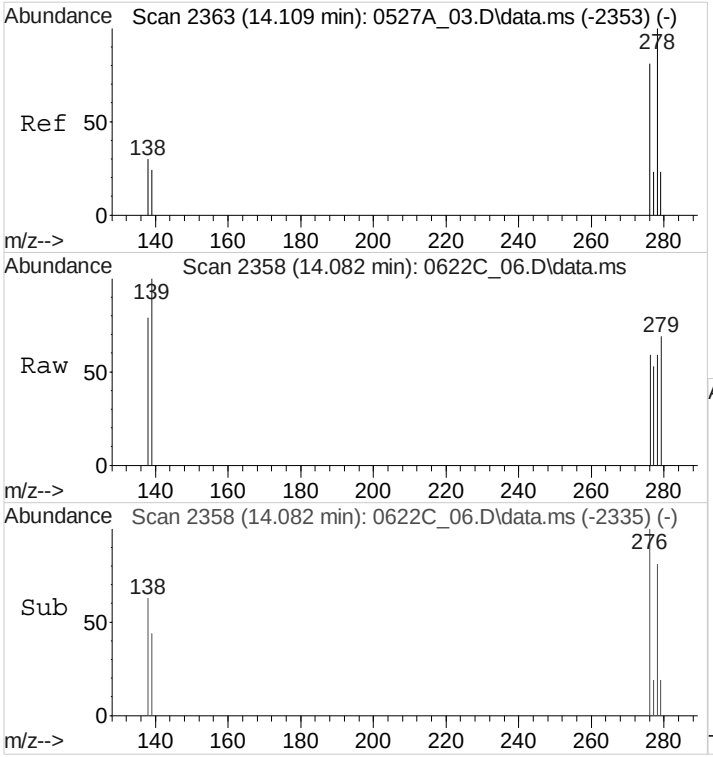


#26
Indeno(1,2,3-cd)pyrene
Concen: 0.0024477 ppb
RT: 14.076 min Scan# 2357
Delta R.T. -0.022 min
Lab File: 0622C_06.D
Acq: 23 Jun 2015 4:15 am

Tgt Ion:276 Resp: 32

Ion	Ratio	Lower	Upper
276	100		
277	25.0	3.7	43.7
138	81.3	13.7	53.7#

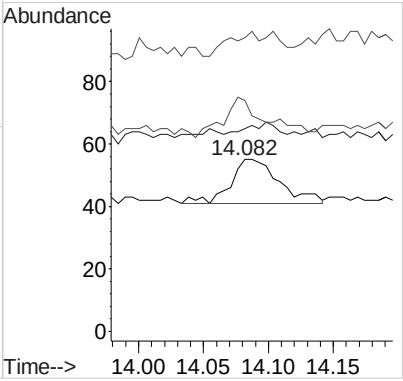


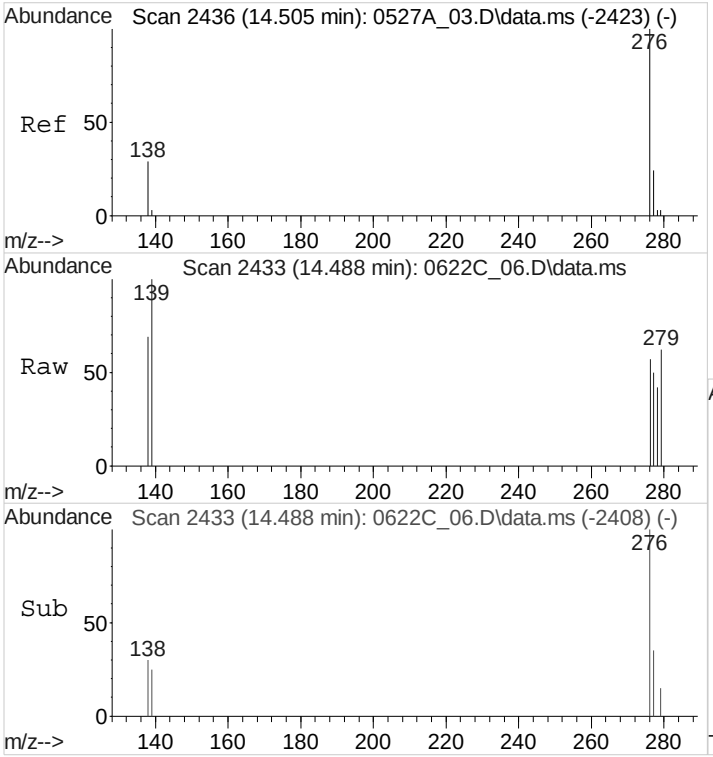


#27
Dibenz(a,h)anthracene
Concen: 0.0033556 ppb
RT: 14.082 min Scan# 2358
Delta R.T. -0.027 min
Lab File: 0622C 06.D
Acq: 23 Jun 2015 4:15 am

Tgt Ion:278 Resp: 37

Ion	Ratio	Lower	Upper
278	100		
279	21.4	3.6	43.6
139	42.9	4.7	44.7
138	64.3	7.8	47.8#

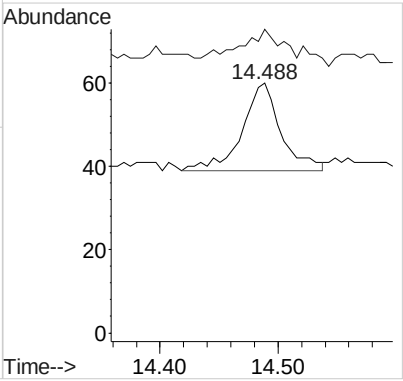




#28
Benzo(g,h,i)perylene
Concen: 0.0042744 ppb
RT: 14.488 min Scan# 2433
Delta R.T. -0.016 min
Lab File: 0622C_06.D
Acq: 23 Jun 2015 4:15 am

Tgt Ion:276 Resp: 48

Ion	Ratio	Lower	Upper
276	100		
138	33.3	12.5	52.5



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\062215C\
Data File : 0622C 07.D
Acq On : 23 Jun 2015 4:36 am
Operator : 280
Sample : L772219-01 1x WG797470 100-5
Misc : water 15E28383/15D14085
ALS Vial : 44 Sample Multiplier: 0.05
InstName : BNAMS14

Quant Time: Jun 23 10:15:52 2015
Quant Method : C:\msdchem\1\METHODS\SS14E27O.M
Quant Title : 8270 BNA
QLast Update : Thu May 28 07:46:25 2015
Response via : Initial Calibration
DataAcq Meth:SIMMN.M

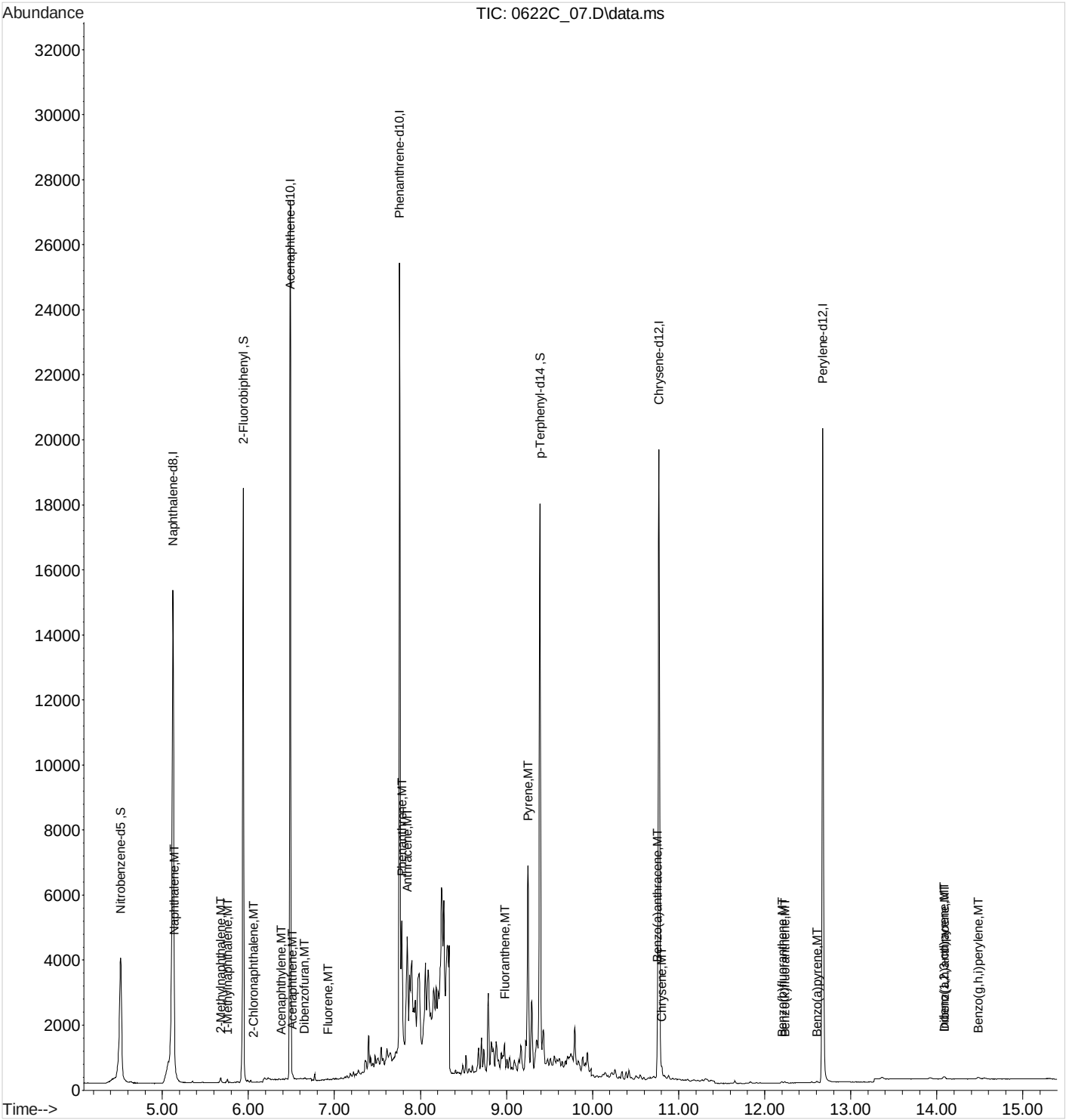
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8	5.124	136	21405	40.0000000	ppb	-0.02
6) Acenaphthene-d10	6.488	164	11537	40.0000000	ppb	-0.02
13) Phenanthrene-d10	7.758	188	18785	40.0000000	ppb	-0.02
17) Chrysene-d12	10.772	240	18690	40.0000000	ppb	-0.02
22) Perylene-d12	12.676	264	21031	40.0000000	ppb	-0.02
System Monitoring Compounds						
2) Nitrobenzene-d5	4.516	82	5470	1.7304903	ppb	0.00
Spiked Amount 2.000	Range 34 - 179		Recovery = 86.52%			
7) 2-Fluorobiphenyl	5.941	172	11975	1.5585282	ppb	-0.02
Spiked Amount 2.000	Range 56 - 150		Recovery = 77.93%			
19) p-Terphenyl-d14	9.387	244	14115	1.7512393	ppb	-0.02
Spiked Amount 2.000	Range 46 - 163		Recovery = 87.56%			
Target Compounds						Qvalue
3) Naphthalene	5.139	128	119	0.0104656	ppb	98
4) 2-Methylnaphthalene	5.679	142	88	0.0123750	ppb	97
5) 1-Methylnaphthalene	5.757	142	51	0.0077828	ppb	95
8) 2-Chloronaphthalene	6.058	162	6	0.0008583	ppb #	64
9) Acenaphthylene	6.382	152	5	0.0004814	ppb #	45
10) Acenaphthene	6.510	153	11	0.0015779	ppb #	74
11) Dibenzofuran	6.650	168	14	0.0015282	ppb	66
12) Fluorene	6.925	166	16m	0.0020900	ppb	
14) Phenanthrene	7.782	178	2381	0.2242792	ppb	80
15) Anthracene	7.848	178	1348m	0.1360046	ppb	
16) Fluoranthene	8.977	202	764	0.0732558	ppb	98
18) Pyrene	9.249	202	4676	0.4892845	ppb	81
20) Benzo(a)anthracene	10.753	228	139	0.0149507	ppb	98
21) Chrysene	10.804	228	217	0.0228702	ppb	93
23) Benzo(b)fluoranthene	12.203	252	57	0.0052346	ppb	83
24) Benzo(k)fluoranthene	12.235	252	46	0.0042475	ppb	86
25) Benzo(a)pyrene	12.606	252	38	0.0041205	ppb	89
26) Indeno(1,2,3-cd)pyrene	14.081	276	57	0.0043495	ppb	86
27) Dibenz(a,h)anthracene	14.087	278	57	0.0051569	ppb	91
28) Benzo(g,h,i)perylene	14.483	276	71	0.0063073	ppb	84

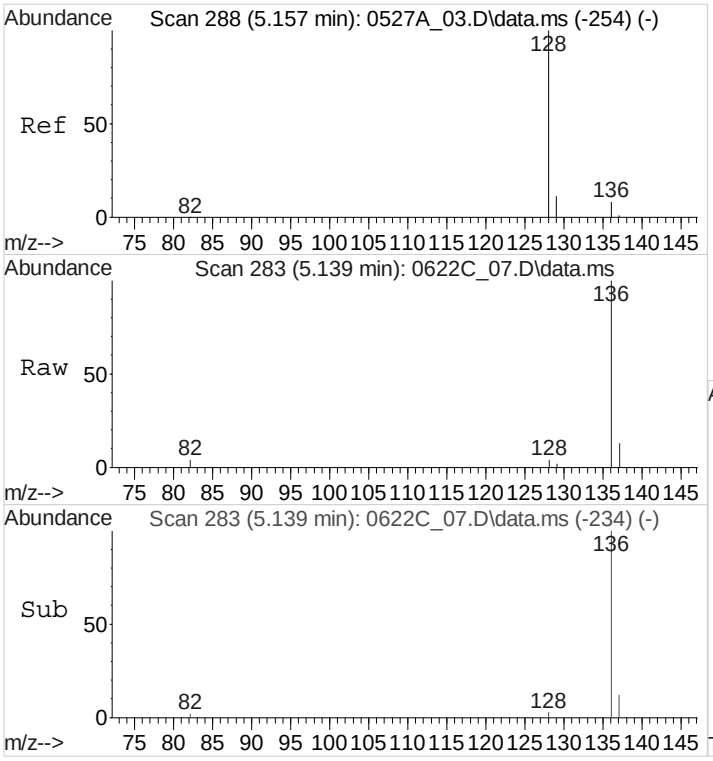
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\062215C\
Data File : 0622C 07.D
Acq On : 23 Jun 2015 4:36 am
Operator : 280
Sample : L772219-01 1x WG797470 100-5
Misc : water 15E28383/15D14085
ALS Vial : 44 Sample Multiplier: 0.05
InstName : BNAMS14

Quant Time: Jun 23 10:15:52 2015
Quant Method : C:\msdchem\1\METHODS\SS14E27O.M
Quant Title : 8270 BNA
QLast Update : Thu May 28 07:46:25 2015
Response via : Initial Calibration
DataAcq Meth:SIMMN.M

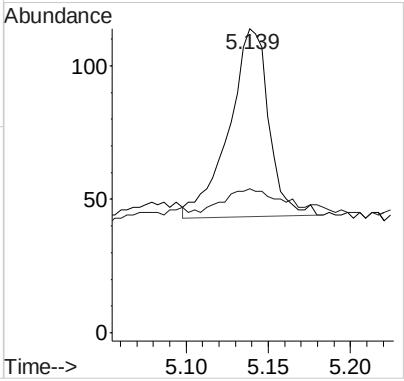


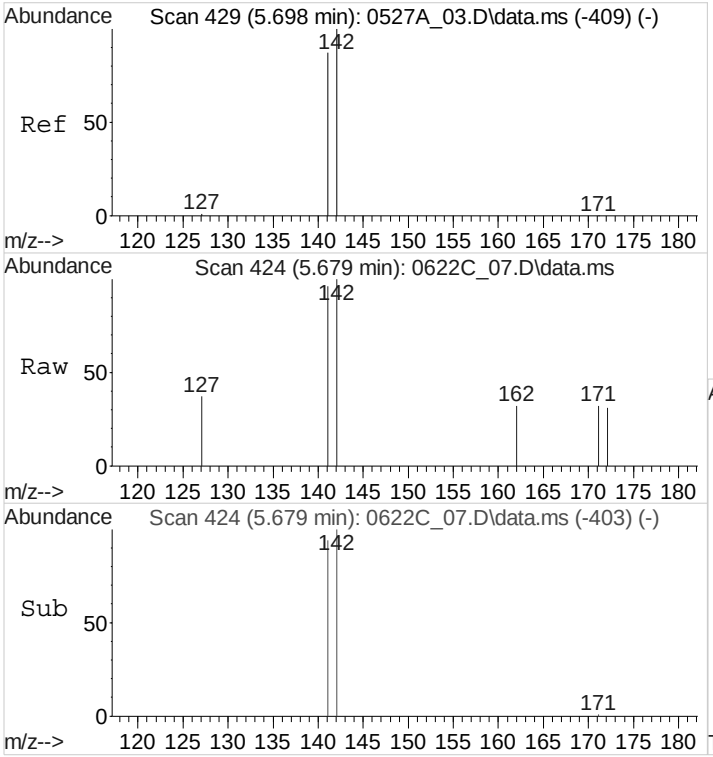


#3
Naphthalene
Concen: 0.0104656 ppb
RT: 5.139 min Scan# 283
Delta R.T. -0.019 min
Lab File: 0622C 07.D
Acq: 23 Jun 2015 4:36 am

Tgt Ion:128 Resp: 119

Ion	Ratio	Lower	Upper
128	100		
129	10.0	0.0	30.7

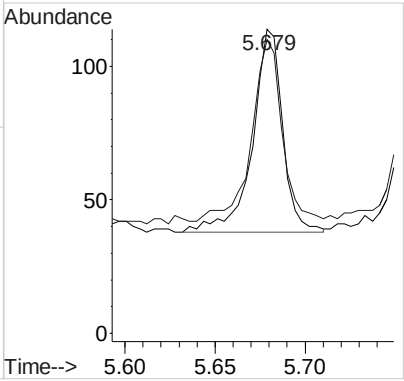


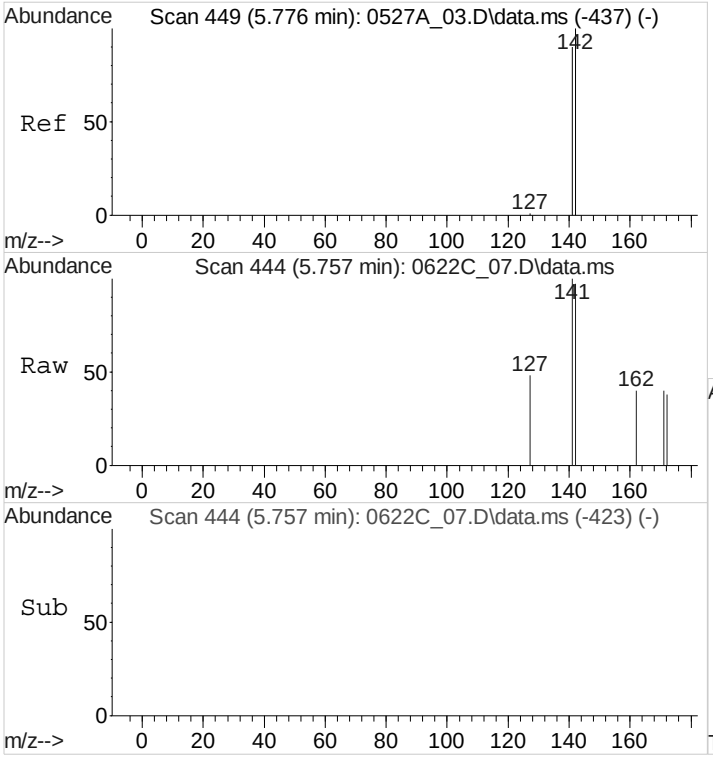


#4
2-Methylnaphthalene
Concen: 0.0123750 ppb
RT: 5.679 min Scan# 424
Delta R.T. -0.020 min
Lab File: 0622C_07.D
Acq: 23 Jun 2015 4:36 am

Tgt Ion:142 Resp: 88

Ion	Ratio	Lower	Upper
142	100		
141	88.2	65.0	105.0

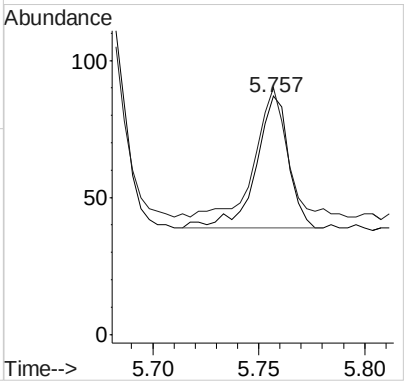


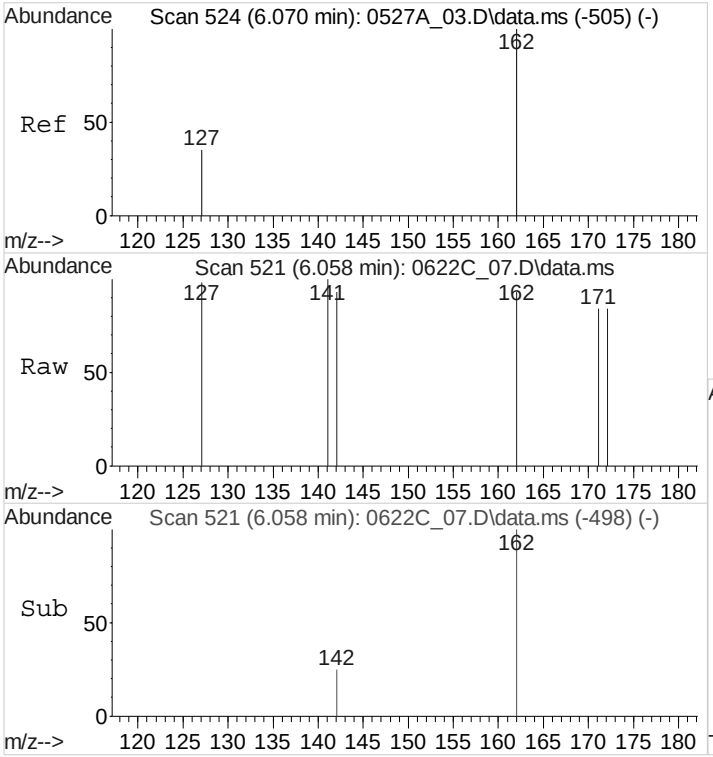


#5
1-Methylnaphthalene
Concen: 0.0077828 ppb
RT: 5.757 min Scan# 444
Delta R.T. -0.020 min
Lab File: 0622C 07.D
Acq: 23 Jun 2015 4:36 am

Tgt Ion:142 Resp: 51

Ion	Ratio	Lower	Upper
142	100		
141	95.8	71.5	111.5

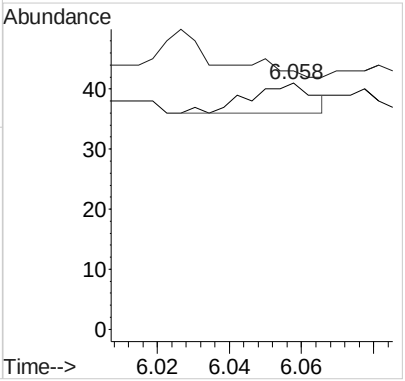


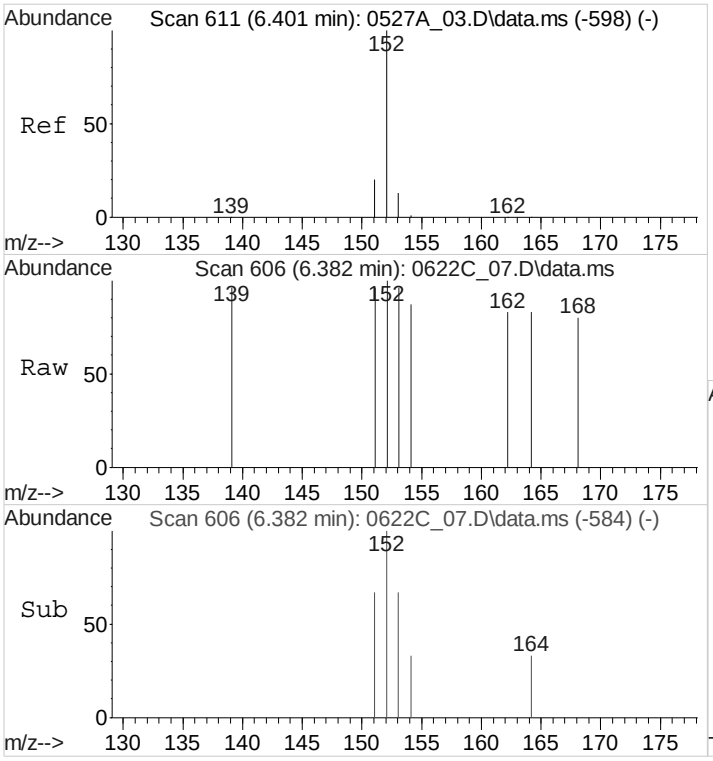


#8
2-Chloronaphthalene
Concen: 0.0008583 ppb
RT: 6.058 min Scan# 521
Delta R.T. -0.012 min
Lab File: 0622C_07.D
Acq: 23 Jun 2015 4:36 am

Tgt Ion:162 Resp: 6

Ion	Ratio	Lower	Upper
162	100		
127	20.0	23.1	63.1#

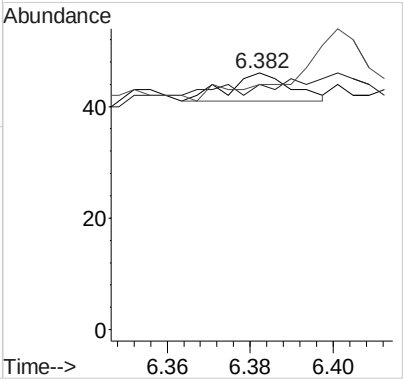


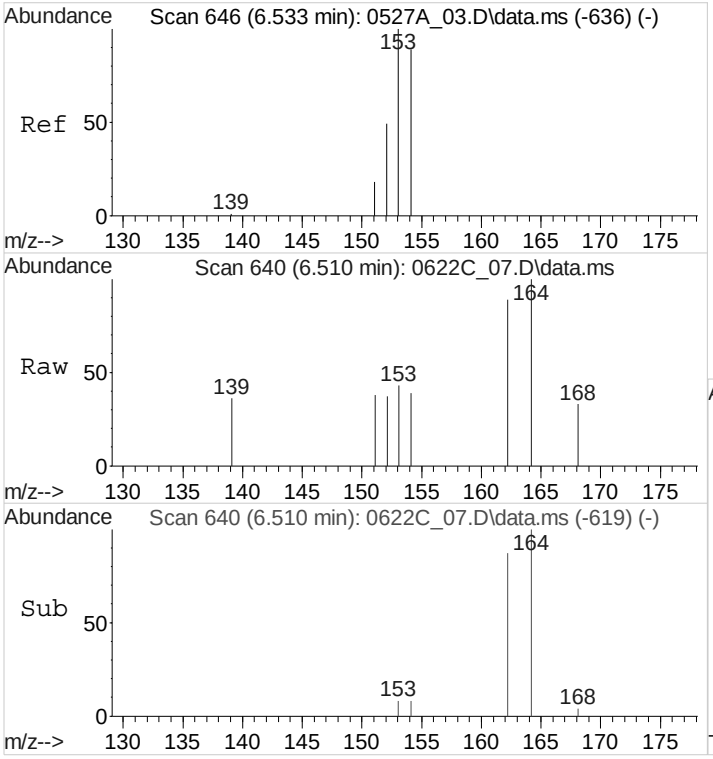


#9
Acenaphthylene
Concen: 0.0004814 ppb
RT: 6.382 min Scan# 606
Delta R.T. -0.019 min
Lab File: 0622C 07.D
Acq: 23 Jun 2015 4:36 am

Tgt Ion:152 Resp: 5

Ion	Ratio	Lower	Upper
152	100		
153	40.0	0.0	33.2#
151	40.0	0.0	39.2#

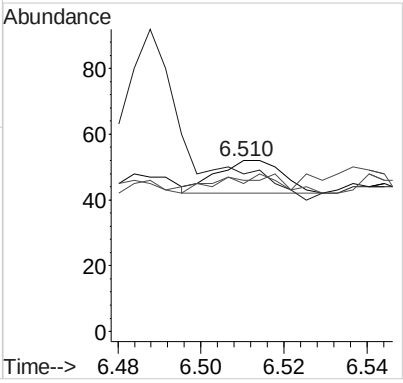


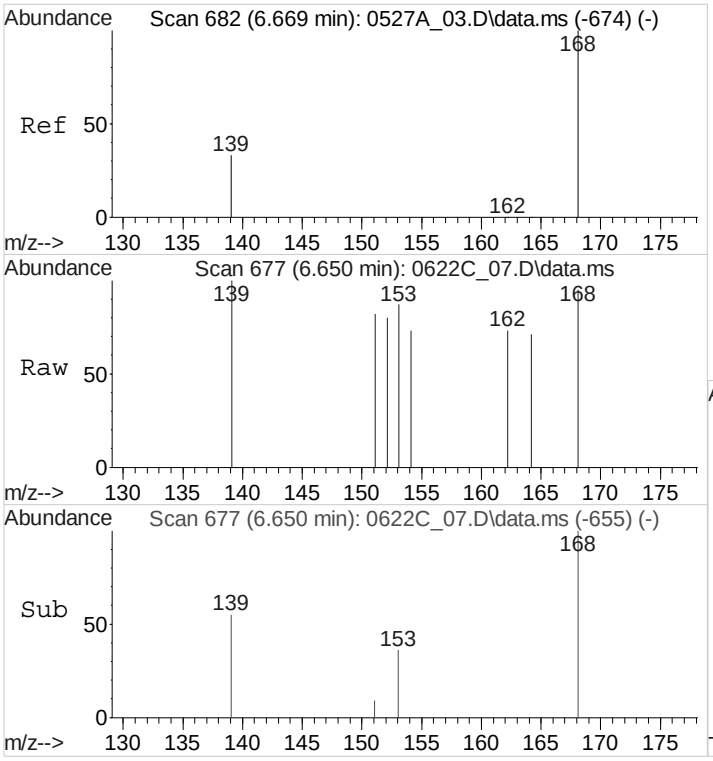


#10
Acenaphthene
Concen: 0.0015779 ppb
RT: 6.510 min Scan# 640
Delta R.T. -0.023 min
Lab File: 0622C_07.D
Acq: 23 Jun 2015 4:36 am

Tgt Ion:153 Resp: 11

Ion	Ratio	Lower	Upper
153	100		
154	60.0	67.3	107.3#
152	30.0	29.2	69.2
151	20.0	0.0	38.7

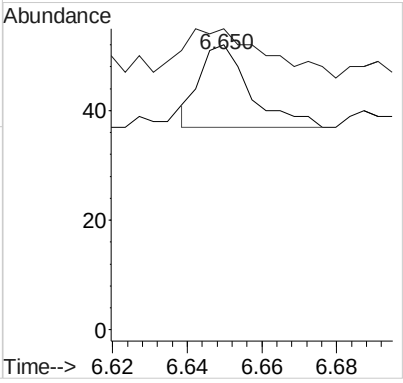


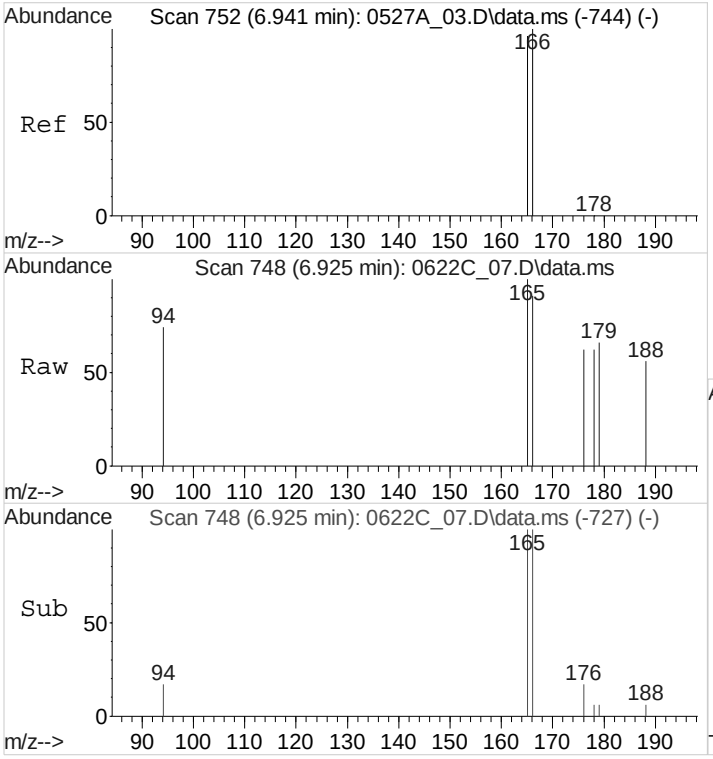


#11
Dibenzofuran
Concen: 0.0015282 ppb
RT: 6.650 min Scan# 677
Delta R.T. -0.019 min
Lab File: 0622C 07.D
Acq: 23 Jun 2015 4:36 am

Tgt Ion:168 Resp: 14

Ion	Ratio	Lower	Upper
168	100		
139	46.7	8.5	48.5

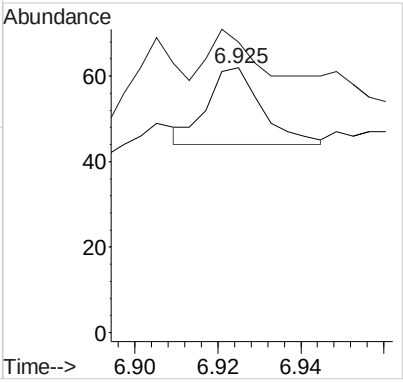


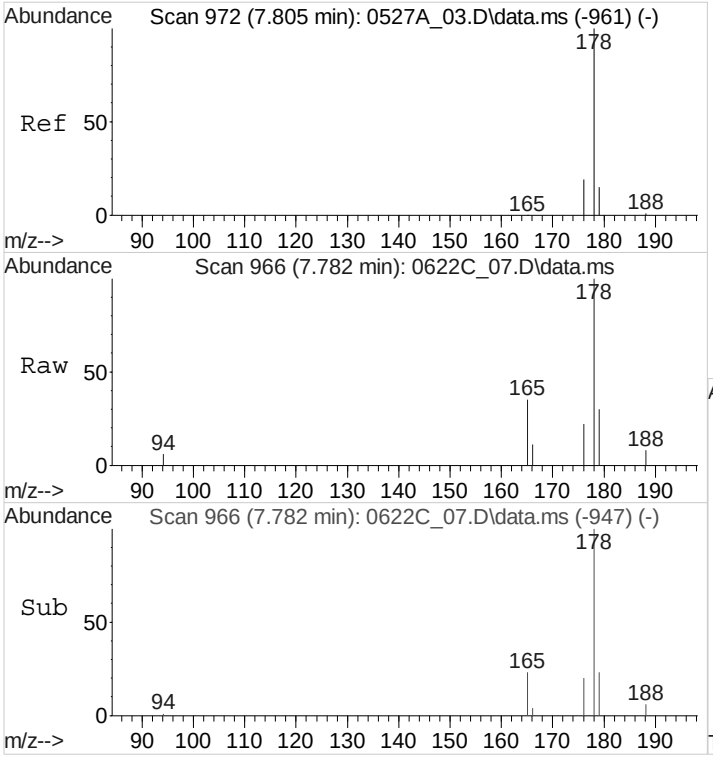


#12
Fluorene
Concen: 0.0020900 ppb m
RT: 6.925 min Scan# 748
Delta R.T. -0.016 min
Lab File: 0622C_07.D
Acq: 23 Jun 2015 4:36 am

Tgt Ion:166 Resp: 16

Ion	Ratio	Lower	Upper
166	100		
165	109.7	76.9	116.9

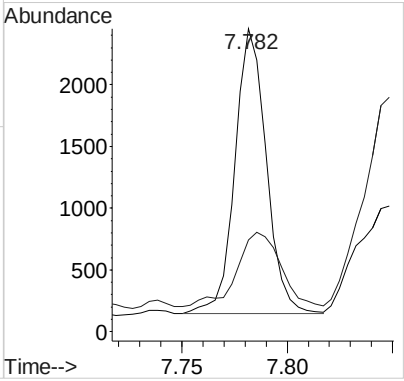


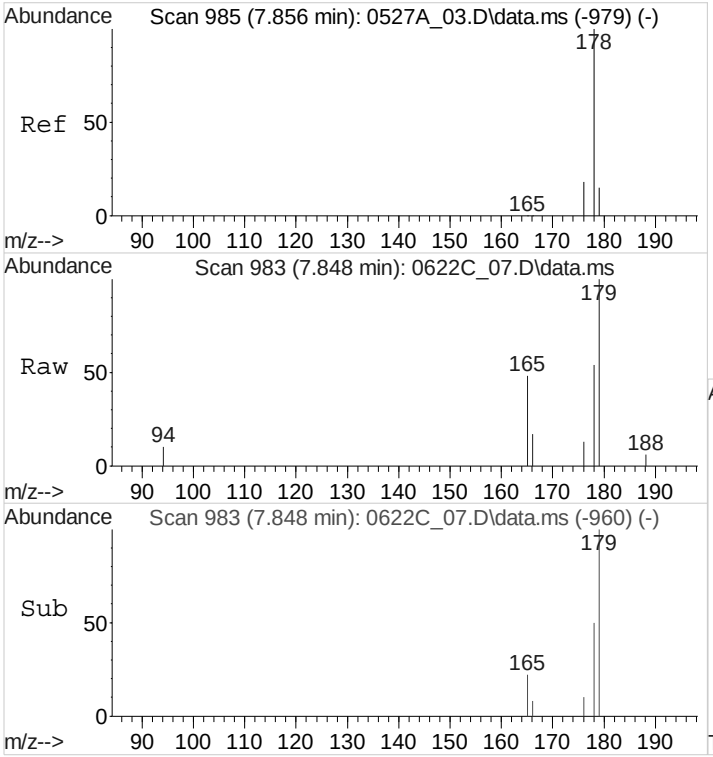


#14
Phenanthrene
Concen: 0.2242792 ppb
RT: 7.782 min Scan# 966
Delta R.T. -0.024 min
Lab File: 0622C 07.D
Acq: 23 Jun 2015 4:36 am

Tgt Ion:178 Resp: 2381

Ion	Ratio	Lower	Upper
178	100		
179	23.4	0.0	35.0

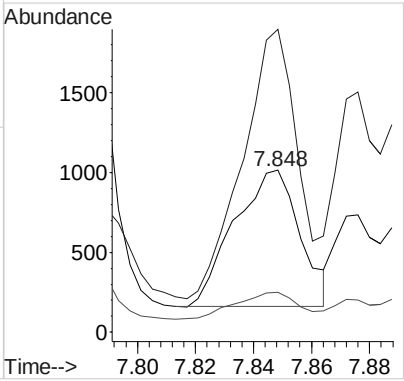


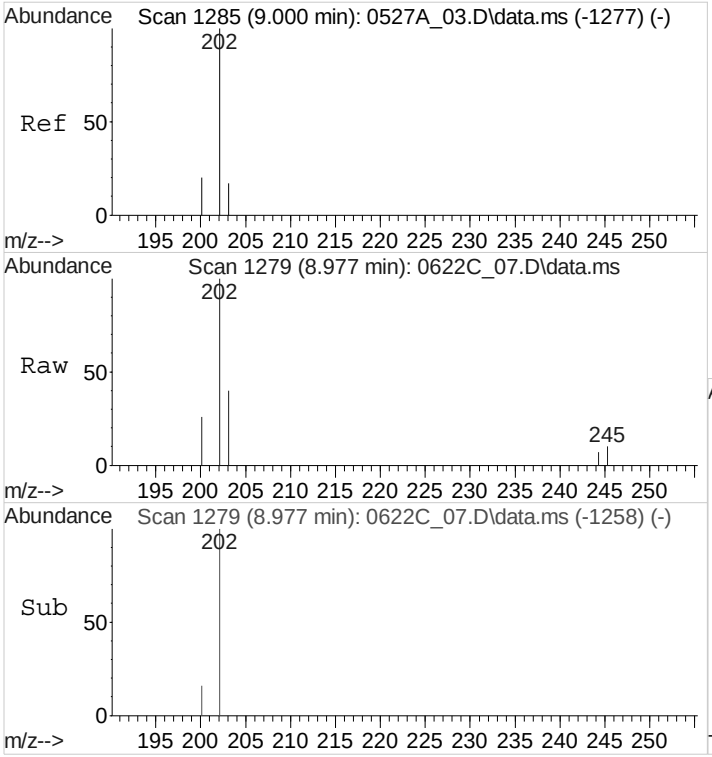


#15
Anthracene
Concen: 0.1360046 ppb m
RT: 7.848 min Scan# 983
Delta R.T. -0.008 min
Lab File: 0622C_07.D
Acq: 23 Jun 2015 4:36 am

Tgt Ion:178 Resp: 1348

Ion	Ratio	Lower	Upper
178	100		
179	186.8	0.0	34.7#
176	24.6	0.0	39.1

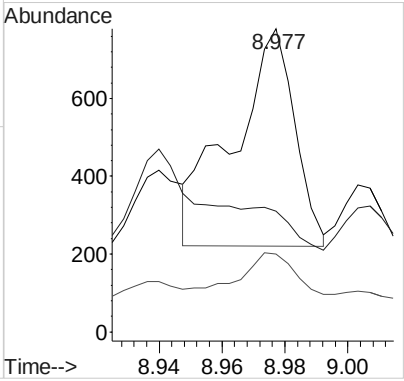


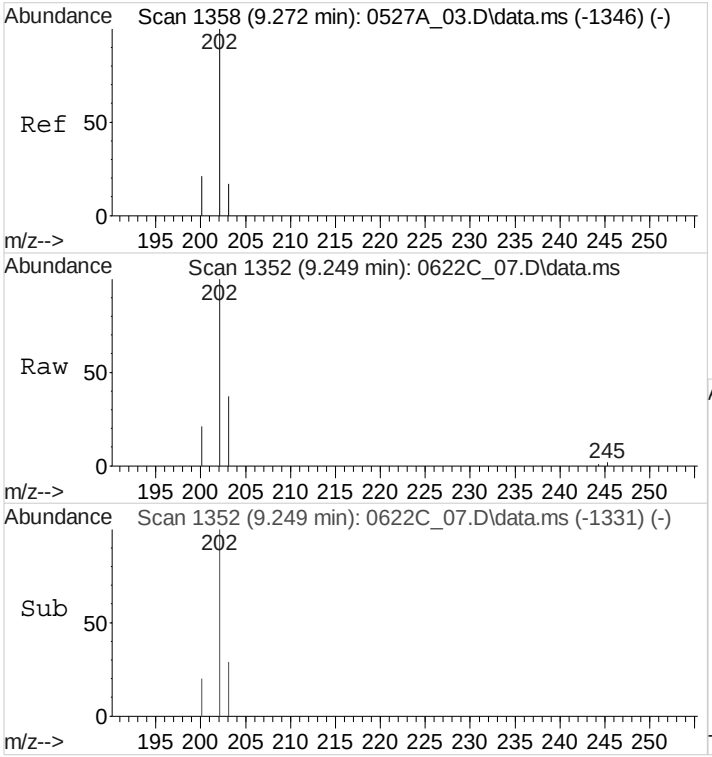


#16
Fluoranthene
Concen: 0.0732558 ppb
RT: 8.977 min Scan# 1279
Delta R.T. -0.022 min
Lab File: 0622C 07.D
Acq: 23 Jun 2015 4:36 am

Tgt Ion:202 Resp: 764

Ion	Ratio	Lower	Upper
202	100		
203	19.1	0.0	37.1
200	19.6	0.0	39.8

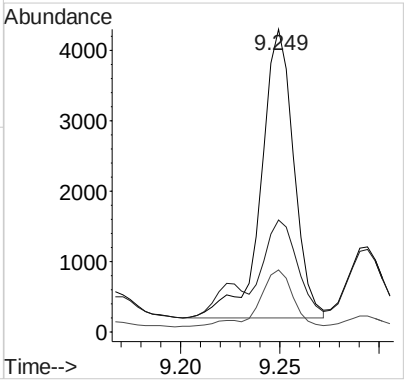


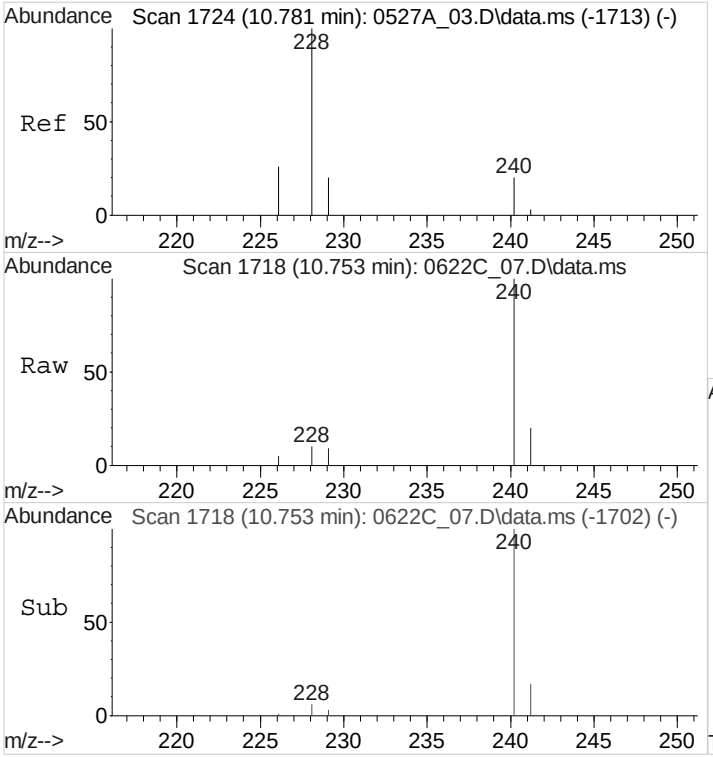


#18
Pyrene
Concen: 0.4892845 ppb
RT: 9.249 min Scan# 1352
Delta R.T. -0.022 min
Lab File: 0622C_07.D
Acq: 23 Jun 2015 4:36 am

Tgt Ion:202 Resp: 4676

Ion	Ratio	Lower	Upper
202	100		
203	33.9	0.0	36.8
200	19.6	0.4	40.4

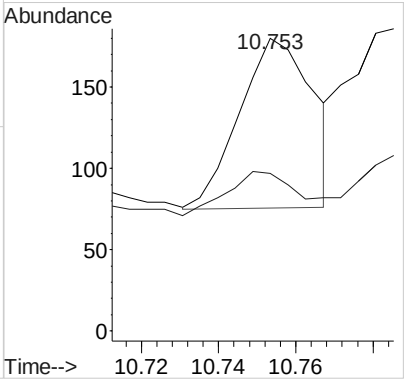


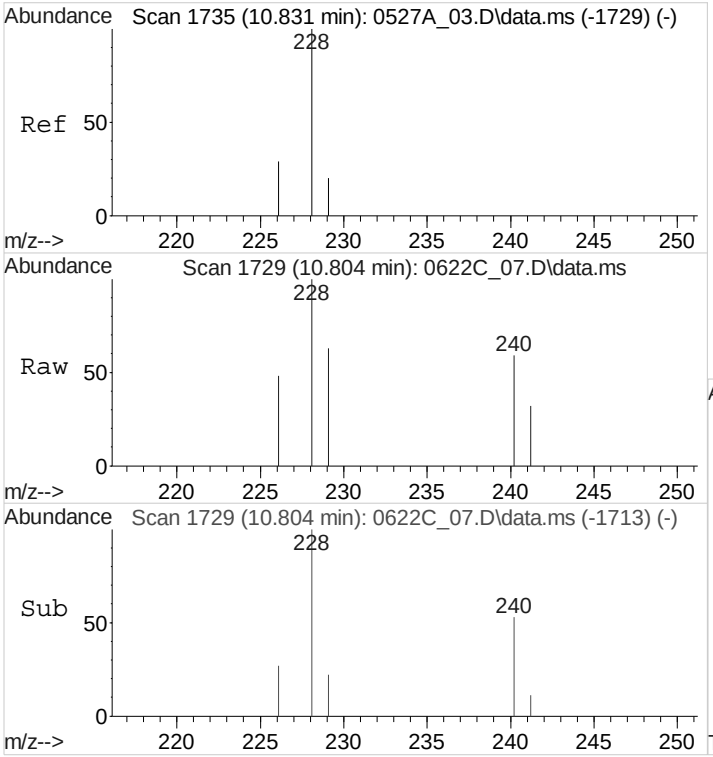


#20
Benzo(a)anthracene
Concen: 0.0149507 ppb
RT: 10.753 min Scan# 1718
Delta R.T. -0.027 min
Lab File: 0622C 07.D
Acq: 23 Jun 2015 4:36 am

Tgt Ion:228 Resp: 139

Ion	Ratio	Lower	Upper
228	100		
226	25.0	5.9	45.9

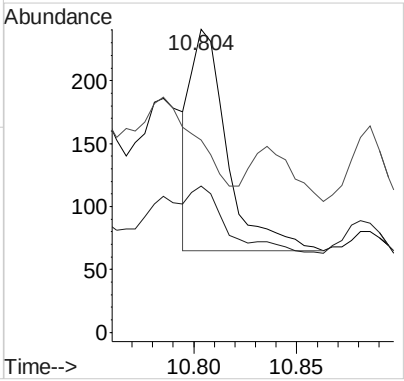


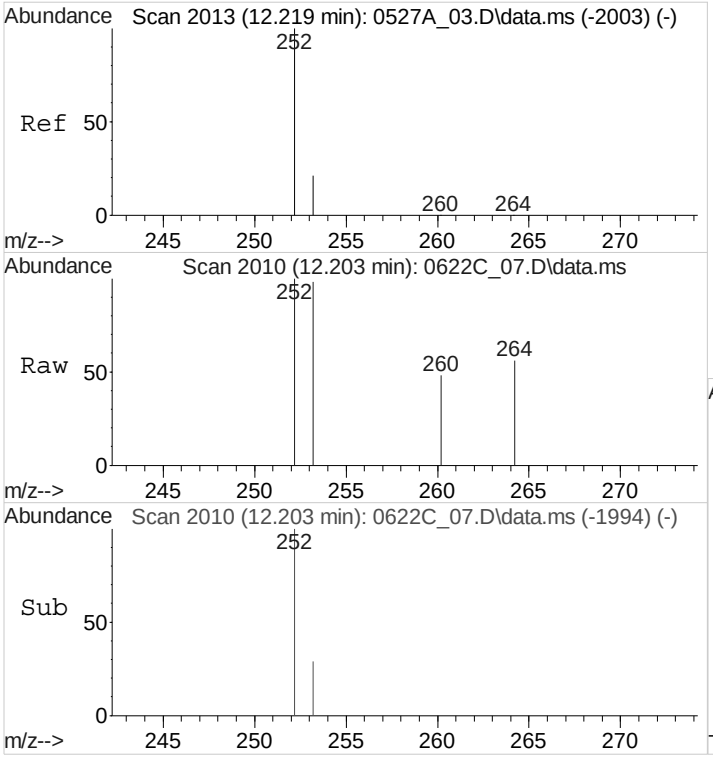


#21
Chrysene
Concen: 0.0228702 ppb
RT: 10.804 min Scan# 1729
Delta R.T. -0.027 min
Lab File: 0622C_07.D
Acq: 23 Jun 2015 4:36 am

Tgt Ion:228 Resp: 217

Ion	Ratio	Lower	Upper
228	100		
226	30.1	9.9	49.9
229	27.8	0.0	39.9

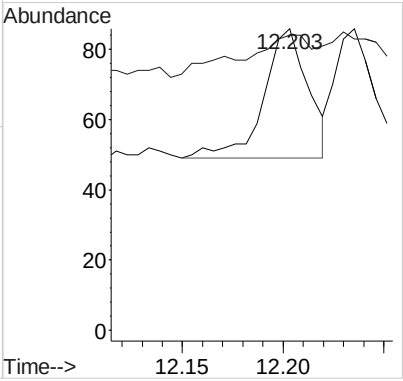


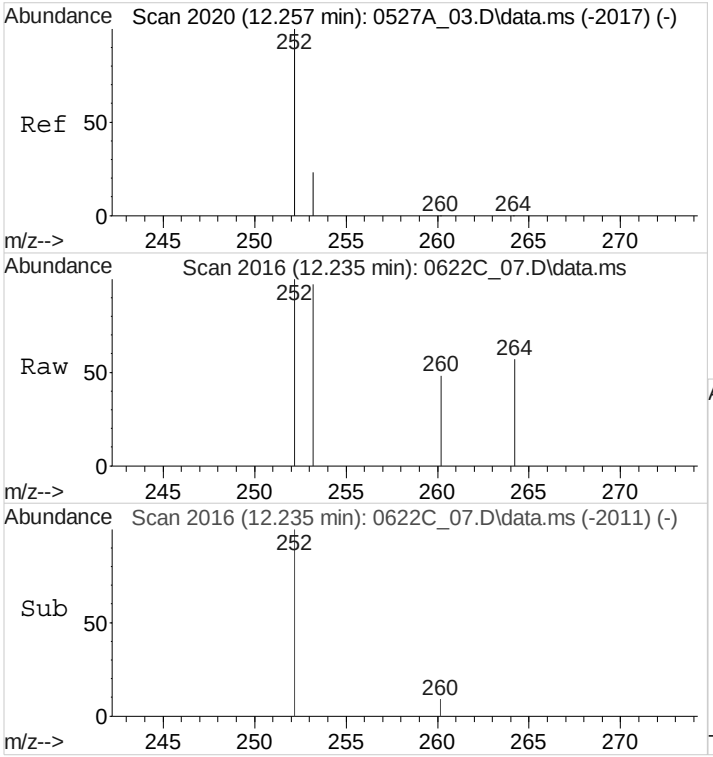


#23
Benzo(b)fluoranthene
Concen: 0.0052346 ppb
RT: 12.203 min Scan# 2010
Delta R.T. -0.016 min
Lab File: 0622C 07.D
Acq: 23 Jun 2015 4:36 am

Tgt Ion:252 Resp: 57

Ion	Ratio	Lower	Upper
252	100		
253	29.7	1.8	41.8

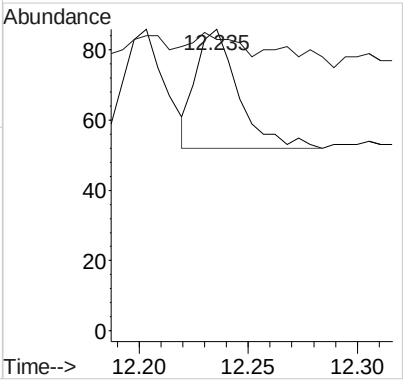


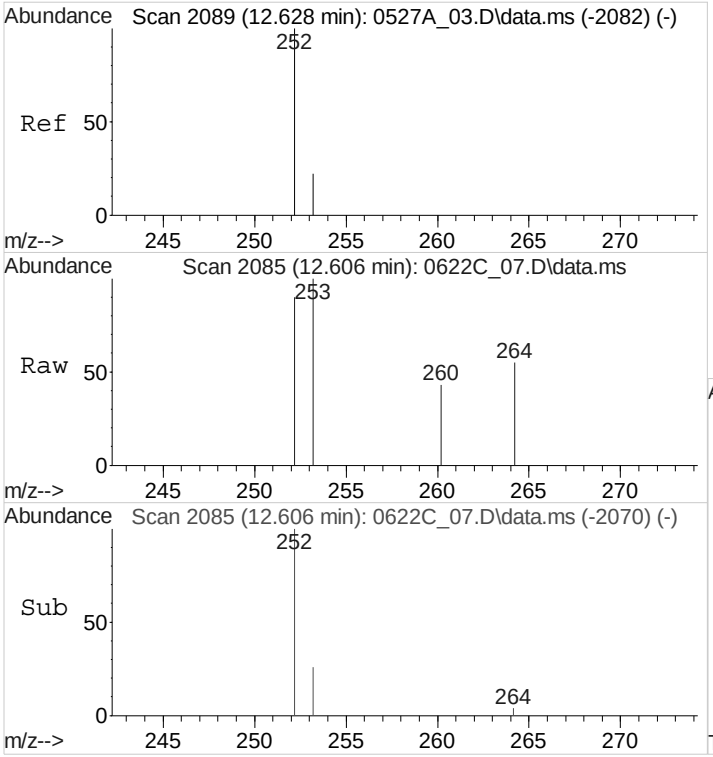


#24
Benzo(k)fluoranthene
Concen: 0.0042475 ppb
RT: 12.235 min Scan# 2016
Delta R.T. -0.022 min
Lab File: 0622C_07.D
Acq: 23 Jun 2015 4:36 am

Tgt Ion:252 Resp: 46

Ion	Ratio	Lower	Upper
252	100		
253	14.7	1.5	41.5

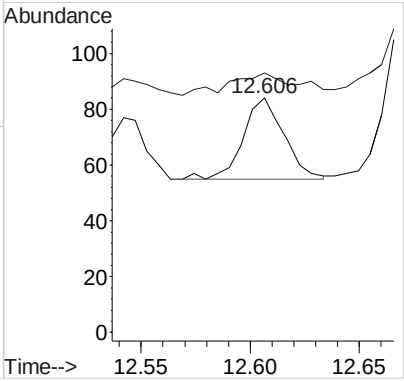


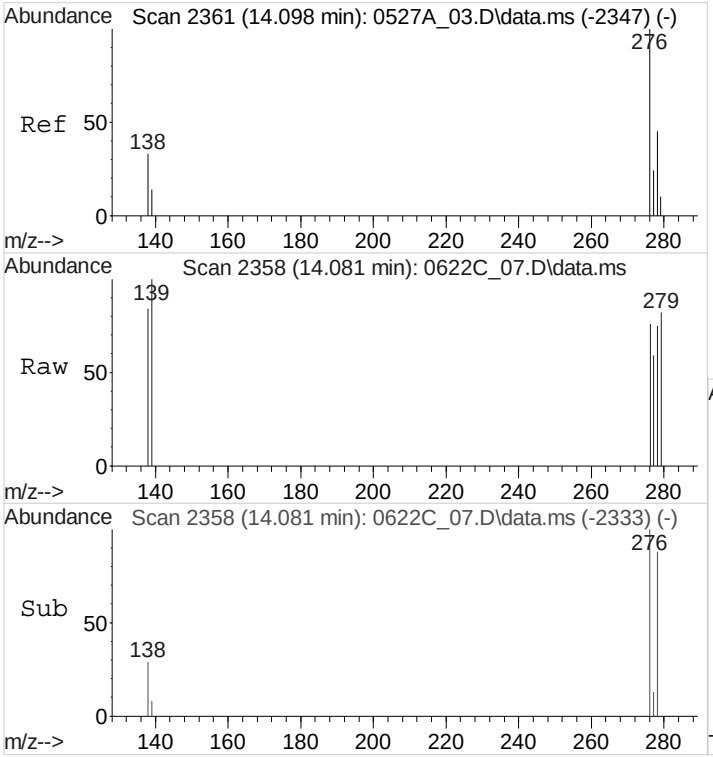


#25
Benzo(a)pyrene
Concen: 0.0041205 ppb
RT: 12.606 min Scan# 2085
Delta R.T. -0.022 min
Lab File: 0622C 07.D
Acq: 23 Jun 2015 4:36 am

Tgt Ion:252 Resp: 38

Ion	Ratio	Lower	Upper
252	100		
253	27.6	2.2	42.2

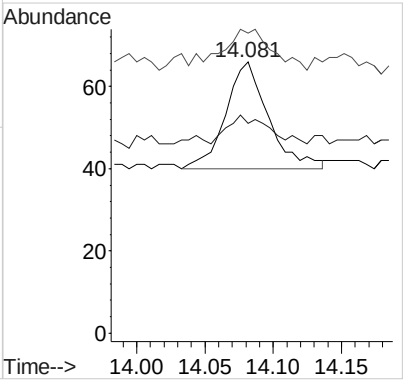


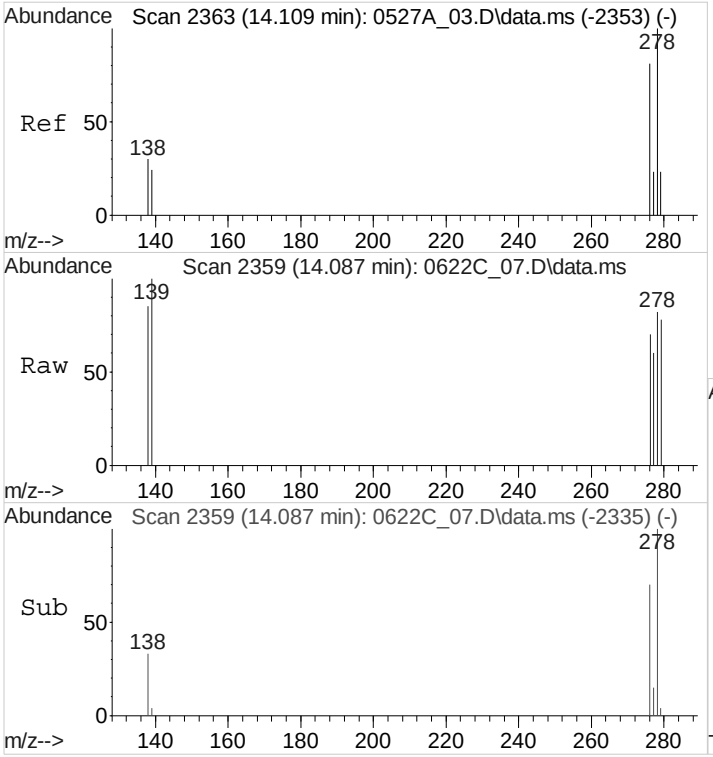


#26
Indeno(1,2,3-cd)pyrene
Concen: 0.0043495 ppb
RT: 14.081 min Scan# 2358
Delta R.T. -0.016 min
Lab File: 0622C_07.D
Acq: 23 Jun 2015 4:36 am

Tgt Ion:276 Resp: 57

Ion	Ratio	Lower	Upper
276	100		
277	15.4	3.7	43.7
138	26.9	13.7	53.7

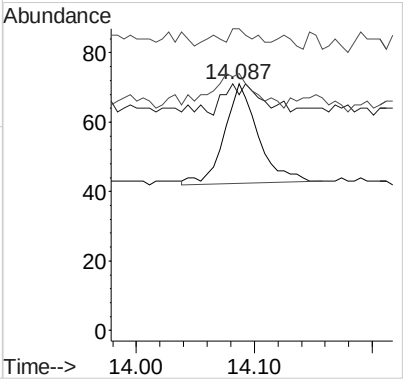


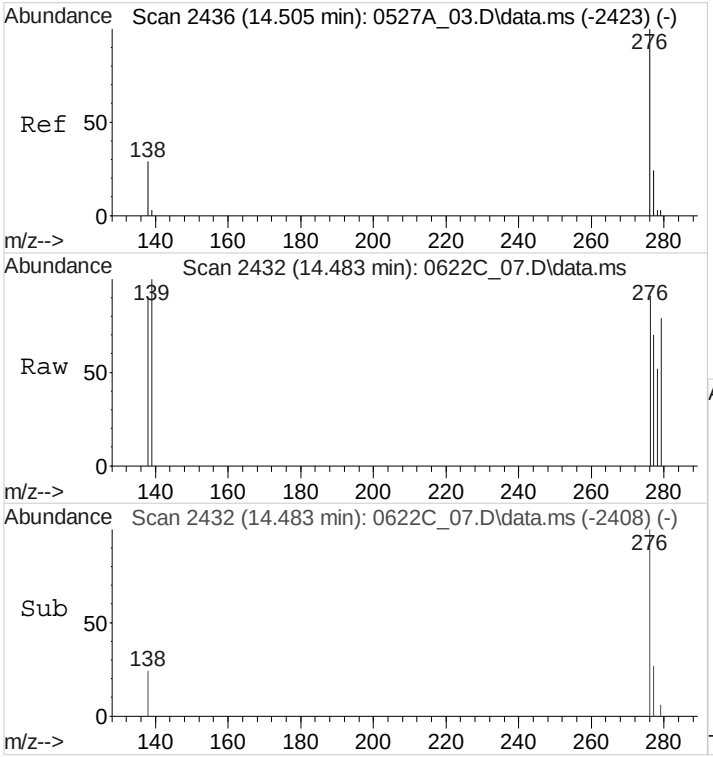


#27
Dibenz(a,h)anthracene
Concen: 0.0051569 ppb
RT: 14.087 min Scan# 2359
Delta R.T. -0.022 min
Lab File: 0622C 07.D
Acq: 23 Jun 2015 4:36 am

Tgt Ion:278 Resp: 57

Ion	Ratio	Lower	Upper
278	100		
279	17.9	3.6	43.6
139	21.4	4.7	44.7
138	32.1	7.8	47.8

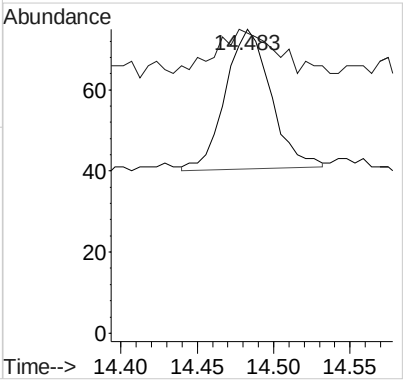




#28
Benzo(g,h,i)perylene
Concen: 0.0063073 ppb
RT: 14.483 min Scan# 2432
Delta R.T. -0.022 min
Lab File: 0622C_07.D
Acq: 23 Jun 2015 4:36 am

Tgt Ion:276 Resp: 71

Ion	Ratio	Lower	Upper
276	100		
138	23.5	12.5	52.5



Calibration

Instrument: BNAMS14
Method: SS14E27O

Initial Calibration Run Log

File ID	Level ID	Date Analyzed
0527A_04.D	1	5/27/2015 11:45:00 AM
0527A_05.D	5	5/27/2015 12:06:00 PM
0527A_06.D	10	5/27/2015 12:27:00 PM
0527A_07.D	20	5/27/2015 12:48:00 PM
0527A_03.D	40	5/27/2015 11:25:00 AM
0527A_08.D	80	5/27/2015 1:08:00 PM
0527A_09.D	200	5/27/2015 1:29:00 PM
0527A_10.D	1000	5/27/2015 1:50:00 PM
0527A_11.D	2000	5/27/2015 2:11:00 PM

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

Injection Log

Instrument ID : BNAMS14
Computer Name : SVCOMPAL

Released By : Kelly Fox
Date Released : 5/28/2015 7:51:21 AM

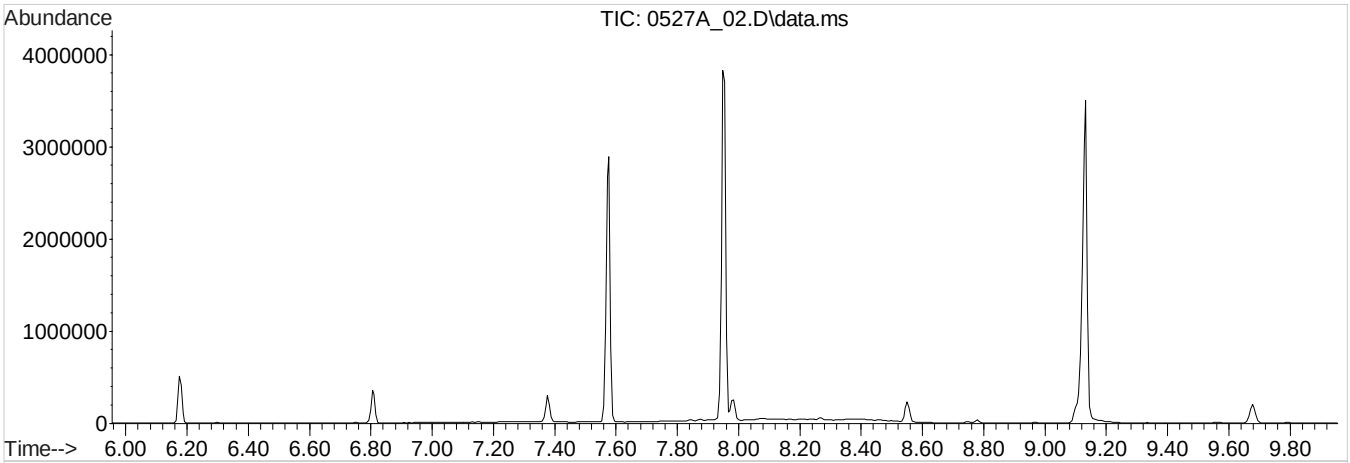
Run ID : 052715A
Signature : _____

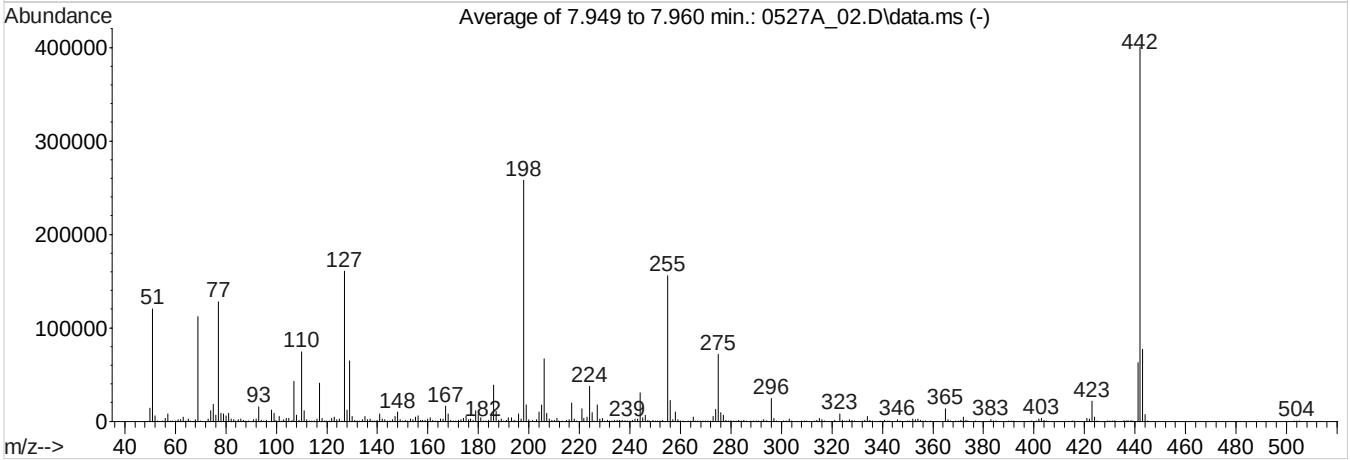
#	File ID	Sample ID	Method	WG	Product	Matrix	Account #	State	Dil.	Mult.	Injected	Misc.
1	0527A_01	INSTBLK	SS14E27O						1	1	05/27/15 1043	"INSTBLK SVOCS"
2	0527A_02	TUNE DFTPP 2 PPM 15D15159								1	05/27/15 1104	
3	0527A_03	MSTD SIMLVI 40 PPB 15D23587	SS14E27O						1	1	05/27/15 1125	"SIM CALIBRATION"
4	0527A_04	STD SIMLVI 1 PPB 15D23587	SS14E27O						1	1	05/27/15 1145	"SIM CALIBRATION"
5	0527A_04 MRL	MRL SIMLVI 1 PPB 15D23587	SS14E27O						1	1	05/27/15 1145	"SIM CALIBRATION"
6	0527A_05	STD SIMLVI 5 PPB 15D23587	SS14E27O						1	1	05/27/15 1206	"SIM CALIBRATION"
7	0527A_06	STD SIMLVI 10 PPB 15D23587	SS14E27O						1	1	05/27/15 1227	"SIM CALIBRATION"
8	0527A_07	STD SIMLVI 20 PPB 15D23587	SS14E27O						1	1	05/27/15 1248	"SIM CALIBRATION"
9	0527A_08	STD SIMLVI 80 PPB 15D23587	SS14E27O						1	1	05/27/15 1308	"SIM CALIBRATION"
10	0527A_09	STD SIMLVI 200 PPB 15D23587	SS14E27O						1	1	05/27/15 1329	"SIM CALIBRATION"
11	0527A_10	STD SIMLVI 1K PPB 15D23587	SS14E27O						1	1	05/27/15 1350	"SIM CALIBRATION"
12	0527A_11	STD SIMLVI 2K PPB 15D23587	SS14E27O						1	1	05/27/15 1411	"SIM CALIBRATION"
13	0527A_12	SSCV SIMLVI 40 PPB 15D23588	SS14E27O						1	1	05/27/15 1431	"SIM SSCV"

Data Path : C:\msdchem\1\DATA\052715A\
Data File : 0527A 02.D
Acq On : 27 May 2015 11:04 am
Operator : 280
Sample : TUNE DFTPP 2 PPM 15D15159
Misc : DFTPP TUNE 15D15159
ALS Vial : 2 Sample Multiplier: 1

Integration File: events.e

Method : C:\msdchem\1\METHODS\TUNE525.M
Title :
Last Update : Wed Dec 31 16:28:46 2014





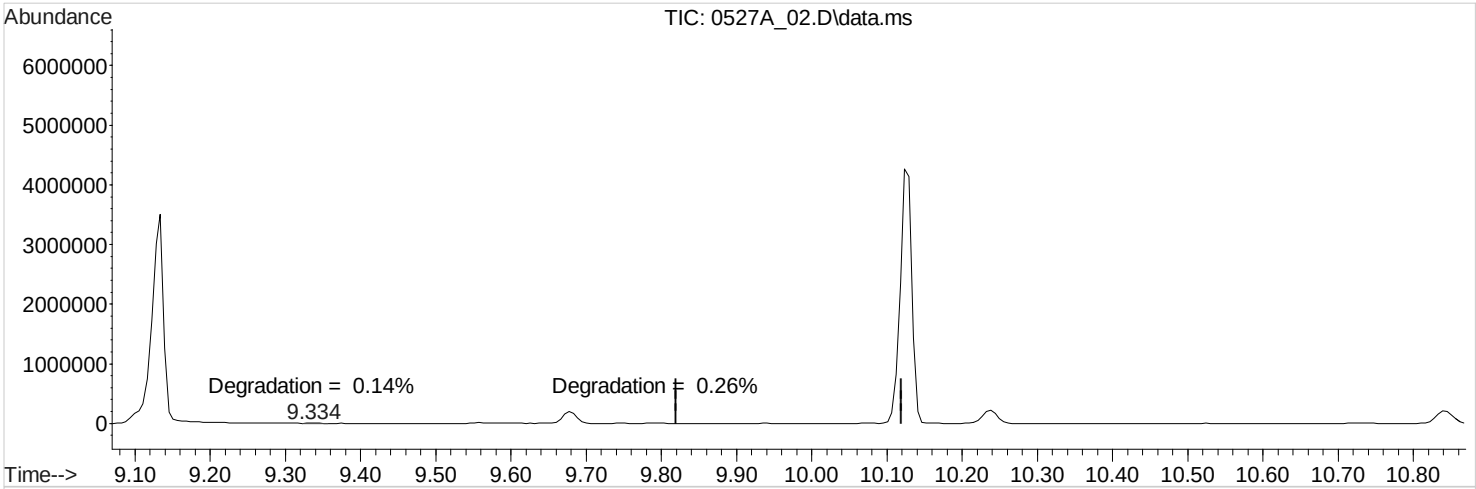
AutoFind: Scans 675, 676, 677; Background Corrected with Scan 670

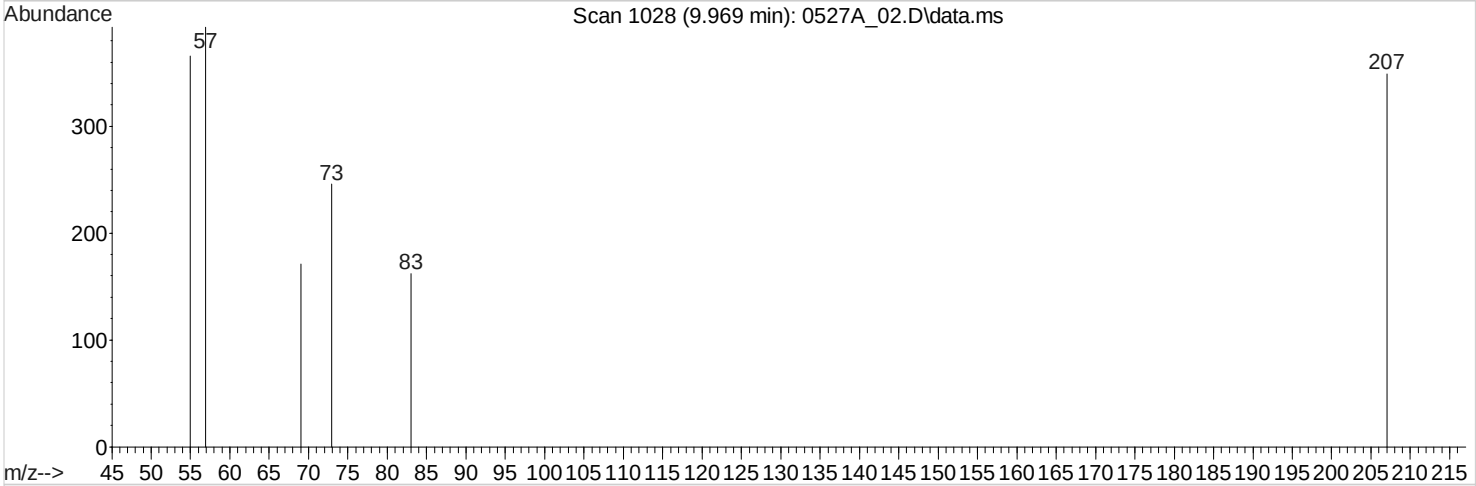
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	442	10	80	30.0	120325	PASS
68	69	0.00	2	1.4	1601	PASS
69	69	0.00	200	100.0	111911	PASS
70	69	0.00	2	0.3	361	PASS
127	442	10	80	40.2	160845	PASS
197	198	0.00	2	0.8	2140	PASS
198	442	50	100	64.4	257915	PASS
199	198	5	9	6.7	17196	PASS
275	442	10	60	17.8	71419	PASS
365	442	1	100	3.4	13624	PASS
441	443	0.01	100	81.3	62715	PASS
442	442	50	100	100.0	400533	PASS
443	442	15	24	19.3	77112	PASS

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\052715A\
Data File : 0527A 02.D
Acq On : 27 May 2015 11:04 am
Operator : 280
Sample : TUNE DFTPP 2 PPM 15D15159
Misc : DFTPP TUNE 15D15159
ALS Vial : 2 Sample Multiplier: 1
InstName : BNAMS14

Quant Time: May 27 11:21:31 2015
Quant Method : C:\msdchem\1\METHODS\TUNE525.M
Quant Title :
QLast Update : Wed Dec 31 16:28:46 2014
Response via : Initial Calibration
DataAcq Meth:PAHMN.M





TIC: 0527A_02.D\data.ms

(4) DDT (T)

9.969min (-9.969) 0.0000000 ppm

Qvalue = 0

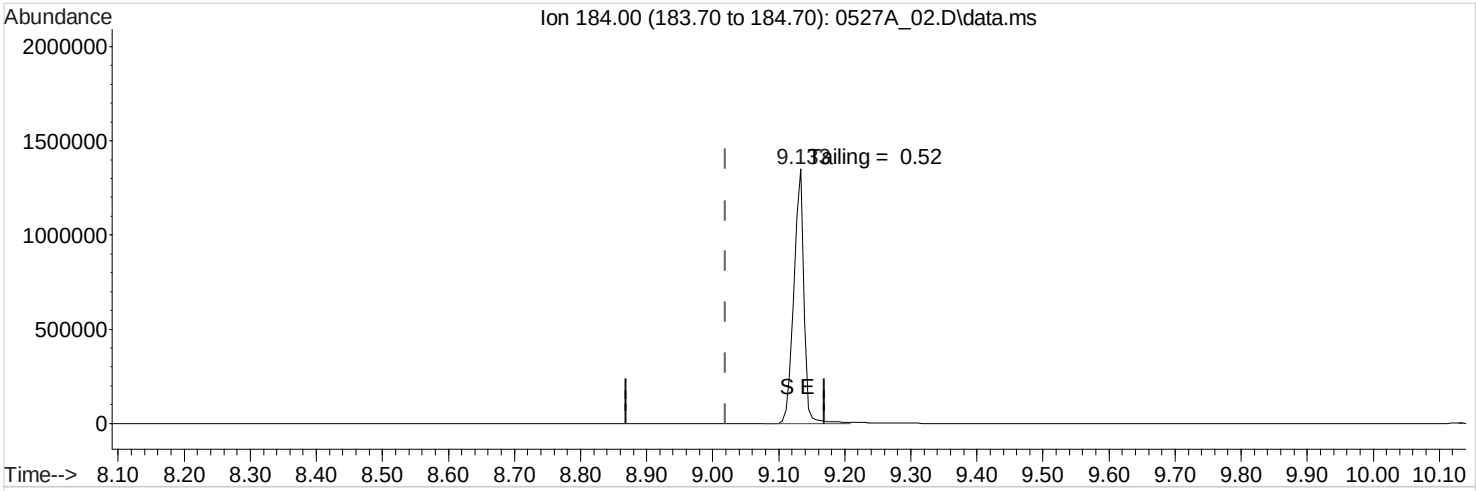
response 0

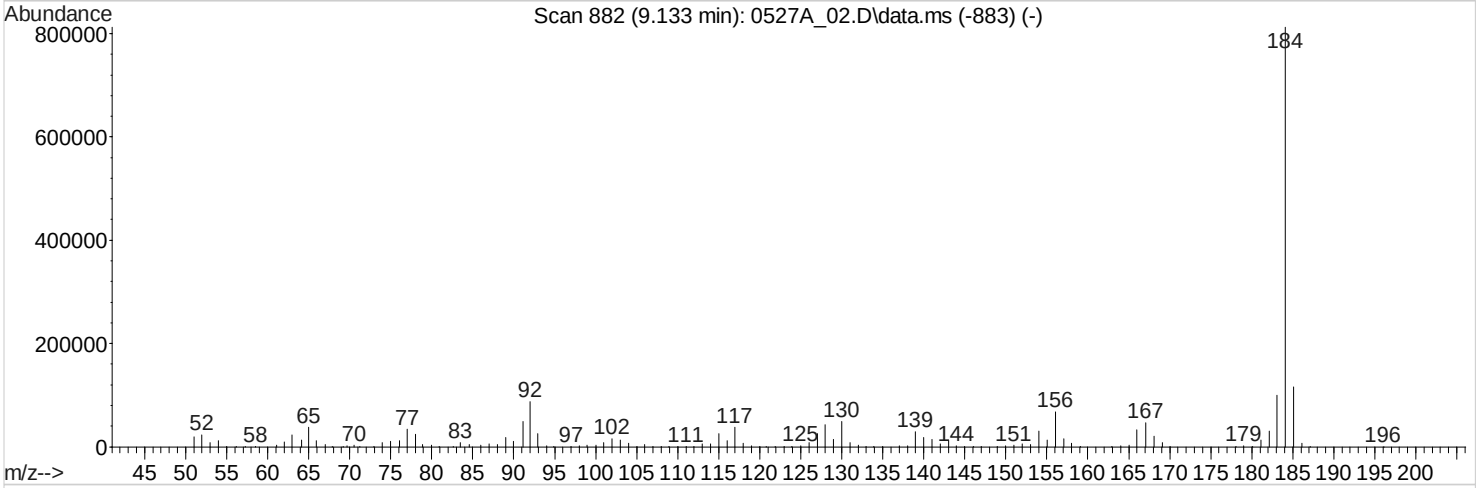
Signal	Exp%	Act%
TIC	100	0.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\DATA\052715A\
Data File : 0527A 02.D
Acq On    : 27 May 2015  11:04 am
Operator  : 280
Sample    : TUNE DFTPP 2 PPM 15D15159
Misc      : DFTPP TUNE 15D15159
ALS Vial  : 2   Sample Multiplier: 1
InstName  : BNAMS14

Quant Time: May 27 11:21:31 2015
Quant Method : C:\msdchem\1\METHODS\TUNE525.M
Quant Title  :
QLast Update : Wed Dec 31 16:28:46 2014
Response via : Initial Calibration
DataAcq Meth:PAHMN.M
```





TIC: 0527A_02.D\data.ms

(3) Benzidine (T)

9.134min (+0.115) 0.2182514 ppm

Qvalue = 100

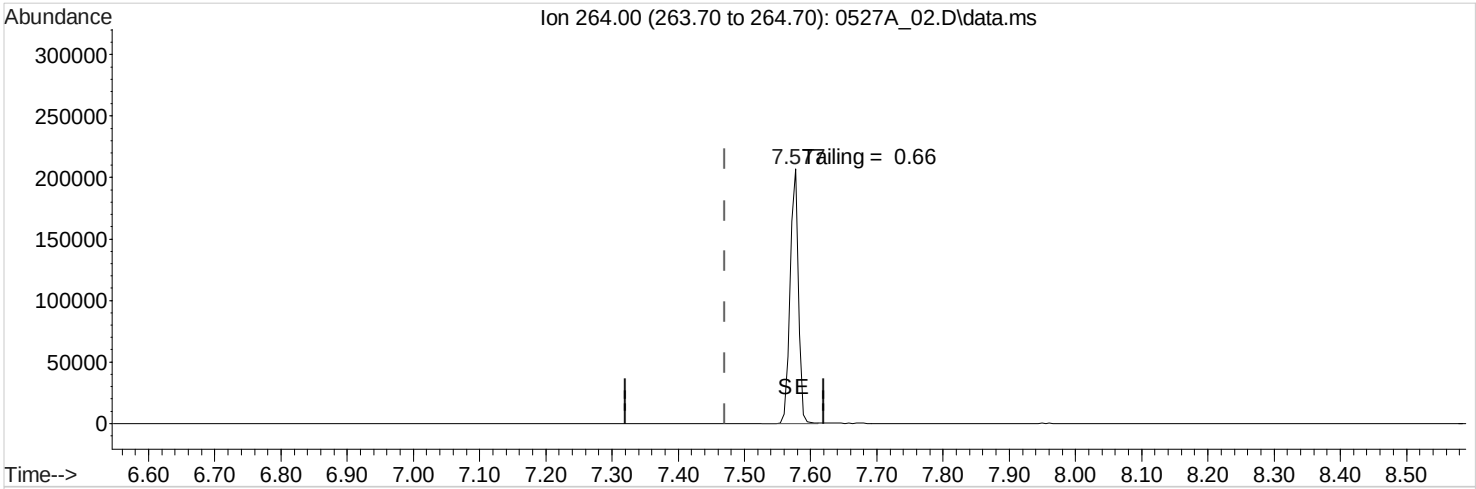
response 5413031

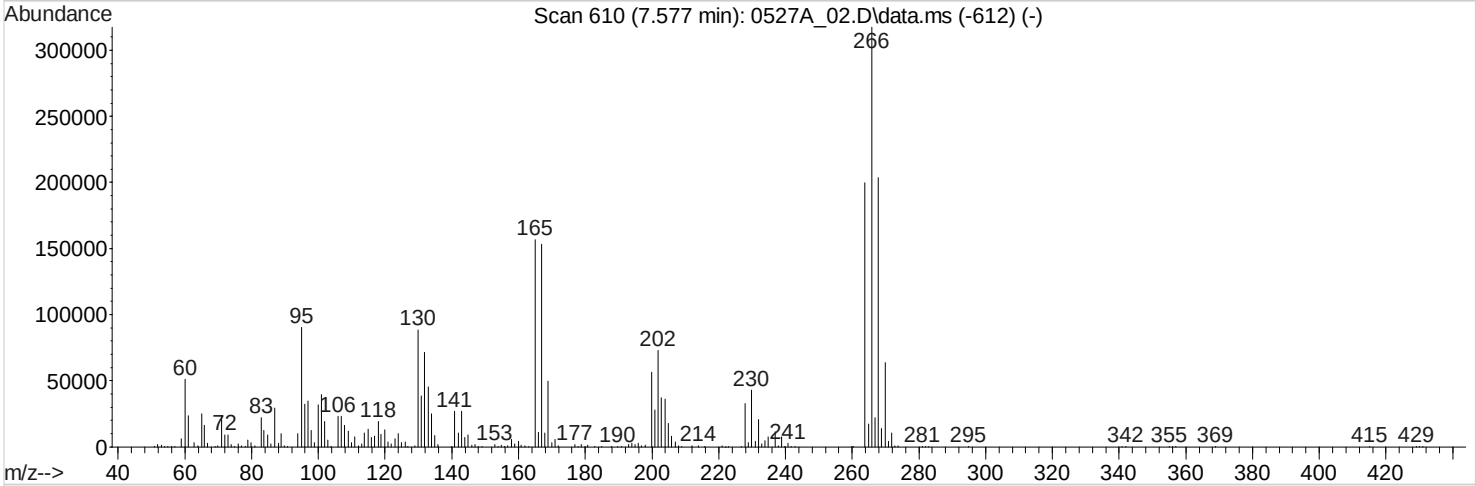
Ion	Exp%	Act%
184.00	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\052715A\
Data File : 0527A 02.D
Acq On : 27 May 2015 11:04 am
Operator : 280
Sample : TUNE DFTPP 2 PPM 15D15159
Misc : DFTPP TUNE 15D15159
ALS Vial : 2 Sample Multiplier: 1
InstName : BNAMS14

Quant Time: May 27 11:21:31 2015
Quant Method : C:\msdchem\1\METHODS\TUNE525.M
Quant Title :
QLast Update : Wed Dec 31 16:28:46 2014
Response via : Initial Calibration
DataAcq Meth:PAHMN.M





TIC: 0527A_02.D\data.ms

(1) Pentachlorophenol (T)

7.577min (+0.107) 0.4289039 ppm

Qvalue = 100

response 1610557

Ion	Exp%	Act%
264.00	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\052715A\
Data File : 0527A 02.D
Acq On : 27 May 2015 11:04 am
Operator : 280
Sample : TUNE DFTPP 2 PPM 15D15159
Misc : DFTPP TUNE 15D15159
ALS Vial : 2 Sample Multiplier: 1
InstName : BNAMS14

Quant Time: May 27 11:22:23 2015
Quant Method : C:\msdchem\1\METHODS\TUNE525.M
Quant Title :
QLast Update : Wed Dec 31 16:28:46 2014
Response via : Initial Calibration
DataAcq Meth:PAHMN.M

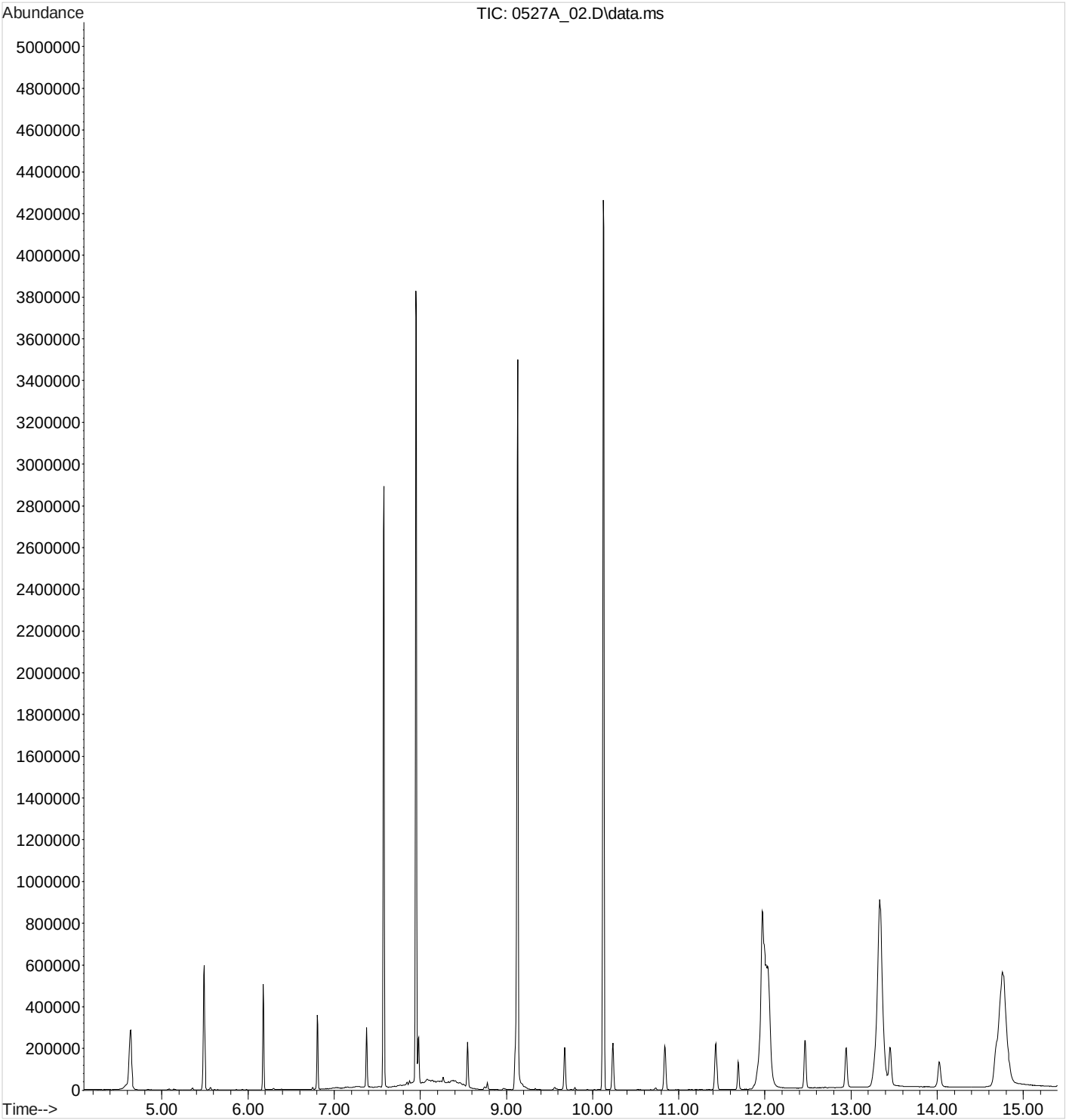
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Target Compounds						Qvalue
1) Pentachlorophenol	7.577	264	1610557	N.D.		
2) DFTPP	0.000		0	N.D.		
3) Benzidine	9.134	184	5413031	N.D.		
4) DDT	0.000		0	N.D.		
5) DDT	9.357		0	N.D.		

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\052715A\
Data File : 0527A 02.D
Acq On : 27 May 2015 11:04 am
Operator : 280
Sample : TUNE DFTPP 2 PPM 15D15159
Misc : DFTPP TUNE 15D15159
ALS Vial : 2 Sample Multiplier: 1
InstName : BNAMS14

Quant Time: May 27 11:22:23 2015
Quant Method : C:\msdchem\1\METHODS\TUNE525.M
Quant Title :
QLast Update : Wed Dec 31 16:28:46 2014
Response via : Initial Calibration
DataAcq Meth:PAHMN.M



Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID	: BNAMS14	Review Method	: LVI PAH	Released By	: Kelly Fox
Method	: SS14E27O	Review Protocol	: SW846	Released On	: 5/28/2015 7:51:22 AM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- SS14E27O -- ICal Updated Time: Thu May 28 07:46:25 2015

Parameter	1	5	10	20	40	80	200	1000	2000	AvgRF	%RSD	COD	Cur	RF
Naphthalene-d8														
Nitrobenzene-d5	0.228	0.292	0.297	0.301	0.295	0.303	0.31	0.312	0.32	0.295347	9.12	0.091	1	
Naphthalene	1.253	1.081	1.077	1.072	1.06	1.037	1.021	0.975	0.986	1.06242	7.65	0.076	1	0.7
2-Methylnaphthalene	0.707	0.665	0.671	0.678	0.673	0.659	0.655	0.632	0.641	0.664435	3.3	0.033	1	0.4
1-Methylnaphthalene	0.651	0.619	0.628	0.63	0.628	0.611	0.601	0.569	0.573	0.612279	4.4	0.044	1	
Acenaphthene-d10														
2-Fluorobiphenyl	1.367	1.31	1.321	1.34	1.335	1.308	1.31	1.324	1.372	1.331981	1.81	0.018	1	
2-Chloronaphthalene	1.247	1.192	1.205	1.217	1.214	1.194	1.198	1.196	1.244	1.211836	1.72	0.017	1	0.8
Acenaphthylene	1.663	1.618	1.666	1.73	1.731	1.812	1.899	1.999	2.088	1.800563	9.04	0.09	1	0.9
Acenaphthene	1.256	1.19	1.199	1.21	1.214	1.181	1.193	1.196	1.238	1.208492	2.03	0.02	1	0.9
Dibenzofuran	1.647	1.563	1.617	1.617	1.602	1.555	1.565	1.542	1.586	1.588078	2.2	0.022	1	0.8
Fluorene	1.333	1.274	1.296	1.305	1.314	1.303	1.32	1.375	1.422	1.327112	3.4	0.034	1	0.9
Phenanthrene-d10														
Phenanthrene	1.16	1.105	1.103	1.113	1.11	1.1	1.119	1.151	1.211	1.130288	3.27	0.033	1	0.7
Anthracene	0.931	0.948	0.976	1.026	1.038	1.078	1.119	1.167	1.216	1.05525	9.31	0.093	1	0.7
Fluoranthene	1.052	1.027	1.049	1.071	1.091	1.096	1.133	1.204	1.27	1.110376	7.2	0.072	1	0.6
Chrysene-d12														
Pyrene	1.069	1.041	1.055	1.068	1.051	1.043	1.036	0.947	0.893	1.022666	5.95	0.059	1	0.5
p-Terphenyl-d14	0.912	0.893	0.892	0.902	0.893	0.867	0.86	0.783	0.761	0.862494	6.24	0.062	1	
Benzo(a)anthracene	1.033	0.956	0.973	1.003	0.992	1.016	1.046	0.984	0.951	0.994886	3.3	0.033	1	0.8
Chrysene	1.068	1.066	1.087	1.081	1.067	1.026	1.007	0.899	0.837	1.015339	8.75	0.087	1	0.7
Perylene-d12														
Benzo(b)fluoranthene	1.036	1.061	1.056	1.038	1.121	1.057	1.098	0.947	0.905	1.035524	6.61	0.066	1	0.7
Benzo(k)fluoranthene	1.073	1.091	1.066	1.09	1.052	1.091	1.047	0.928	0.832	1.0299	8.73	0.087	1	0.7

PDF Generated On: 05/28/2015 By: Kelly Fox

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID	:	BNAMS14	Review Method	:	LVI PAH	Released By	:	Kelly Fox
Method	:	SS14E27O	Review Protocol	:	SW846	Released On	:	5/28/2015 7:51:22 AM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- SS14E27O -- ICal Updated Time: Thu May 28 07:46:25 2015

Parameter	1	5	10	20	40	80	200	1000	2000	AvgRF	%RSD	COD	Cur	RF
Benzo(a)pyrene	0.816	0.85	0.861	0.895	0.946	0.926	0.954	0.852	0.792	0.877003	6.5	0.065	1	0.7
Indeno(1,2,3-cd)pyrene	1.313	1.217	1.25	1.279	1.294	1.307	1.329	1.19	1.038	1.246263	7.29	0.073	1	0.5
Dibenz(a,h)anthracene	1.101	1.023	1.051	1.083	1.087	1.097	1.12	1.004	0.896	1.051136	6.6	0.066	1	0.4
Benzo(g,h,i)perylene	1.202	1.072	1.088	1.106	1.188	1.106	1.108	0.953	0.812	1.0705	11.26	0.113	1	0.5

PDF Generated On: 05/28/2015 -- By: Kelly Fox

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\052715A\
Data File : 0527A 01.D
Acq On : 27 May 2015 10:43 am
Operator : 280
Sample : INSTBLK SVOCS
Misc : INSTBLK SVOCS
ALS Vial : 1 Sample Multiplier: 1
InstName : BNAMS14

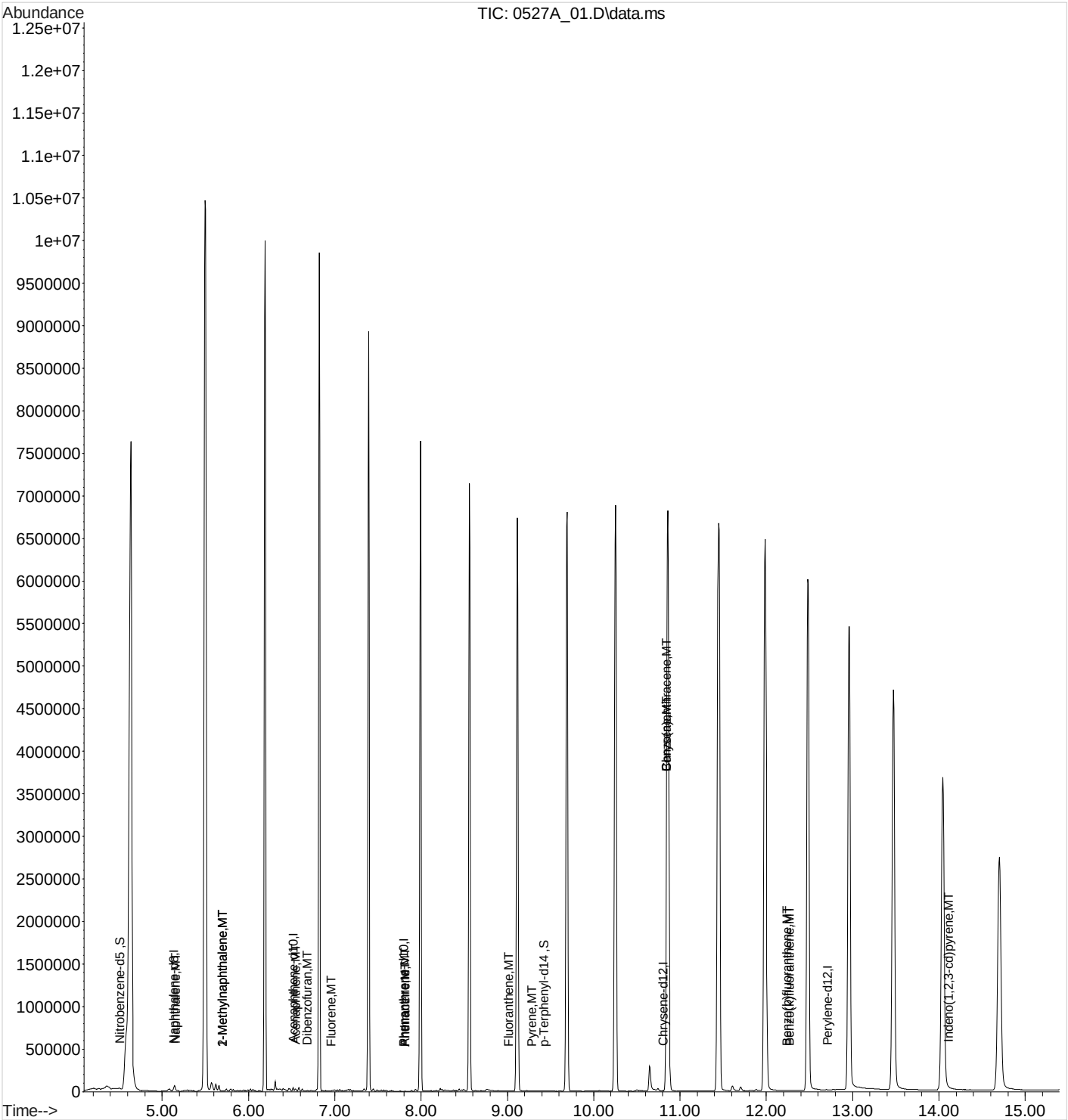
Quant Time: May 28 07:48:34 2015
Quant Method : C:\msdchem\1\METHODS\SS14E27O.M
Quant Title : 8270 BNA
QLast Update : Thu May 28 07:46:25 2015
Response via : Initial Calibration
DataAcq Meth:PAHMN.M

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Naphthalene-d8	5.134	136	657	40.0000000	ppb		0.00
6) Acenaphthene-d10	6.519	164	1060	40.0000000	ppb		0.00
13) Phenanthrene-d10	7.795	188	1089	40.0000000	ppb		0.01
17) Chrysene-d12	10.805	240	550	40.0000000	ppb		0.01
22) Perylene-d12	12.710	264	287	40.0000000	ppb	#	0.01
System Monitoring Compounds							
2) Nitrobenzene-d5	4.510	82	127	26.1797461	ppb		0.00
Spiked Amount 2.000	Range 34 - 179		Recovery = 1308.99%#				
7) 2-Fluorobiphenyl	0.000	172	0	0.0000000	ppb		
Spiked Amount 2.000	Range 56 - 150		Recovery = 0.00%#				
19) p-Terphenyl-d14	9.426	244	315	26.5614496	ppb		0.02
Spiked Amount 2.000	Range 46 - 163		Recovery = 1328.07%#				
Target Compounds							Qvalue
3) Naphthalene	5.157	128	8433	483.2596109	ppb		97
4) 2-Methylnaphthalene	5.701	142	201	18.4178206	ppb	#	76
5) 1-Methylnaphthalene	5.701	142	201	19.9867090	ppb	#	70
8) 2-Chloronaphthalene	0.000		0	N.D.			
9) Acenaphthylene	0.000		0	N.D.			
10) Acenaphthene	6.547	153	377	11.7720403	ppb	#	19
11) Dibenzofuran	6.679	168	282	6.7008724	ppb	#	50
12) Fluorene	6.954	166	56	1.5923355	ppb	#	1
14) Phenanthrene	7.812	178	346	11.2439513	ppb		64
15) Anthracene	7.812	178	346	12.0435085	ppb		61
16) Fluoranthene	9.014	202	56	1.8524651	ppb		59
18) Pyrene	9.282	202	107	7.6093456	ppb	#	58
20) Benzo(a)anthracene	10.845	228	238	17.3980706	ppb	#	1
21) Chrysene	10.845	228	238	17.0475982	ppb	#	22
23) Benzo(b)fluoranthene	12.241	252	314	42.2617499	ppb	#	54
24) Benzo(k)fluoranthene	12.269	252	208	28.1479298	ppb	#	54
25) Benzo(a)pyrene	0.000		0	N.D.			
26) Indeno(1,2,3-cd)pyrene	14.112	276	109	12.1897552	ppb	#	45
27) Dibenz(a,h)anthracene	0.000		0	N.D.			
28) Benzo(g,h,i)perylene	0.000		0	N.D.			

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

Data Path : C:\msdchem\1\DATA\052715A\
Data File : 0527A 01.D
Acq On : 27 May 2015 10:43 am
Operator : 280
Sample : INSTBLK SVOCS
Misc : INSTBLK SVOCS
ALS Vial : 1 Sample Multiplier: 1
InstName : BNAMS14

Quant Time: May 28 07:48:34 2015
Quant Method : C:\msdchem\1\METHODS\SS14E27O.M
Quant Title : 8270 BNA
QLast Update : Thu May 28 07:46:25 2015
Response via : Initial Calibration
DataAcq Meth:PAHMN.M



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\052715A\
Data File : 0527A 04MRL.D
Acq On : 27 May 2015 11:45 am
Operator : 280
Sample : MRL SIMLVI 1 PPB 15D23587
Misc : SIM CALIBRATION
ALS Vial : 12 Sample Multiplier: 1
InstName : BNAMS14

Quant Time: May 28 07:48:19 2015
Quant Method : C:\msdchem\1\METHODS\SS14E27O.M
Quant Title : 8270 BNA
QLast Update : Thu May 28 07:46:25 2015
Response via : Initial Calibration
DataAcq Meth:SIMMN.M

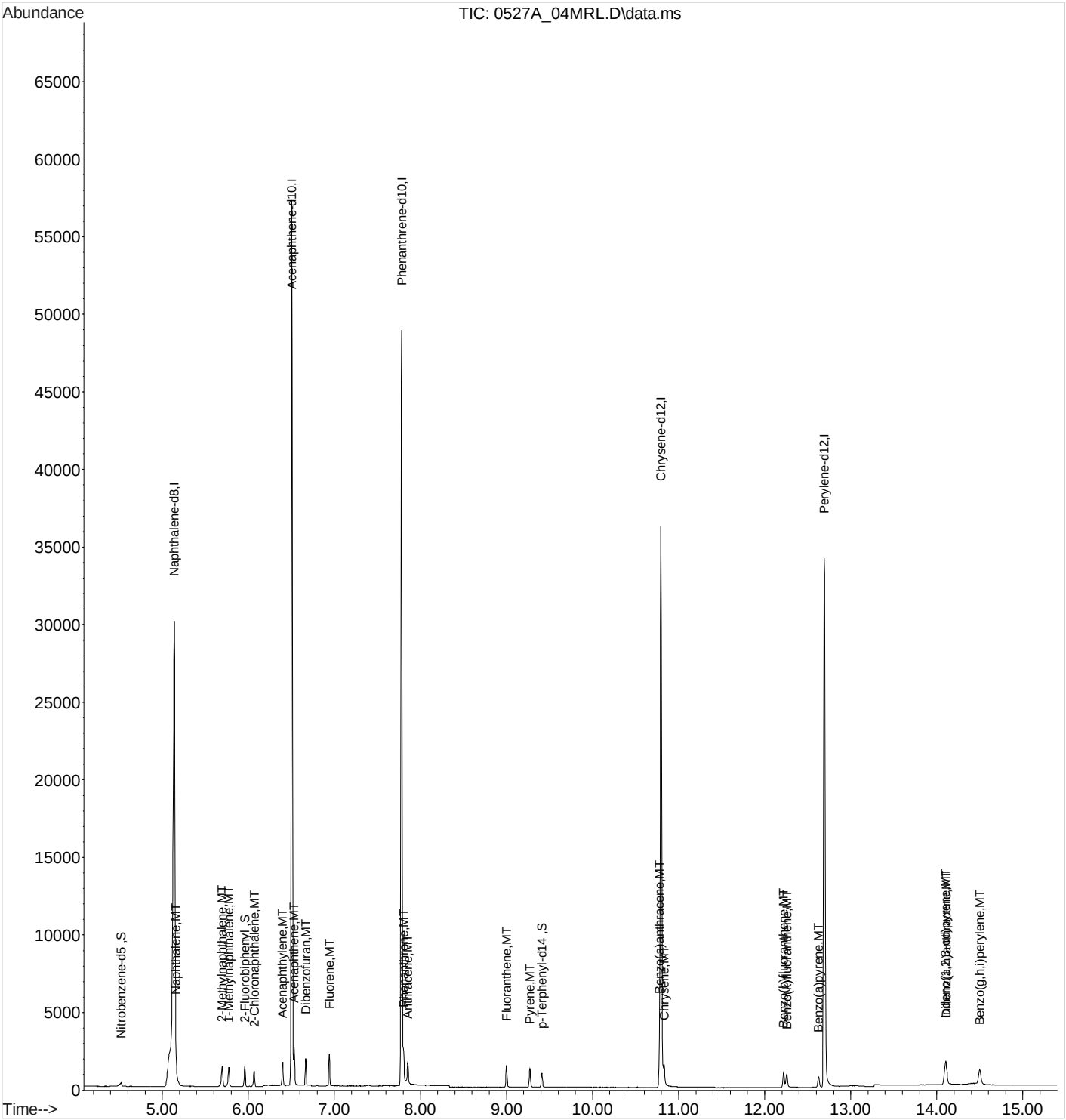
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8	5.139	136	47953	40.0000000	ppb	0.00
6) Acenaphthene-d10	6.507	164	24897	40.0000000	ppb	0.00
13) Phenanthrene-d10	7.782	188	39371	40.0000000	ppb	0.00
17) Chrysene-d12	10.794	240	35664	40.0000000	ppb	0.00
22) Perylene-d12	12.692	264	36302	40.0000000	ppb	0.00
System Monitoring Compounds						
2) Nitrobenzene-d5	4.519	82	273m	0.7710347	ppb	0.00
Spiked Amount 2.000	Range 34 - 179		Recovery = 38.55%			
7) 2-Fluorobiphenyl	5.960	172	851	1.0264660	ppb	0.00
Spiked Amount 2.000	Range 56 - 150		Recovery = 51.32%#			
19) p-Terphenyl-d14	9.410	244	813	1.0572176	ppb	0.00
Spiked Amount 2.000	Range 46 - 163		Recovery = 52.86%			
Target Compounds						Qvalue
3) Naphthalene	5.157	128	1502	1.1792827	ppb	99
4) 2-Methylnaphthalene	5.698	142	847	1.0633474	ppb	99
5) 1-Methylnaphthalene	5.776	142	780	1.0626480	ppb	95
8) 2-Chloronaphthalene	6.070	162	776	1.0287999	ppb	87
9) Acenaphthylene	6.397	152	1035	0.9235171	ppb	97
10) Acenaphthene	6.533	153	782	1.0396233	ppb	97
11) Dibenzofuran	6.669	168	1021m	1.0329203	ppb	
12) Fluorene	6.941	166	830	1.0048089	ppb	96
14) Phenanthrene	7.805	178	1142	1.0265034	ppb	98
15) Anthracene	7.852	178	916	0.8819091	ppb	99
16) Fluoranthene	9.000	202	1035	0.9470083	ppb	99
18) Pyrene	9.272	202	953	1.0451751	ppb	99
20) Benzo(a)anthracene	10.776	228	921	1.0382846	ppb	97
21) Chrysene	10.831	228	952	1.0516127	ppb	98
23) Benzo(b)fluoranthene	12.219	252	940	1.0002234	ppb	100
24) Benzo(k)fluoranthene	12.257	252	974	1.0420617	ppb	99
25) Benzo(a)pyrene	12.623	252	741	0.9309931	ppb	96
26) Indeno(1,2,3-cd)pyrene	14.098	276	1192	1.0538919	ppb	99
27) Dibenz(a,h)anthracene	14.109	278	999	1.0472154	ppb	95
28) Benzo(g,h,i)perylene	14.499	276	1091	1.1229685	ppb	95

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\052715A\
Data File : 0527A 04MRL.D
Acq On : 27 May 2015 11:45 am
Operator : 280
Sample : MRL SIMLVI 1 PPB 15D23587
Misc : SIM CALIBRATION
ALS Vial : 12 Sample Multiplier: 1
InstName : BNAMS14

Quant Time: May 28 07:48:19 2015
Quant Method : C:\msdchem\1\METHODS\SS14E27O.M
Quant Title : 8270 BNA
QLast Update : Thu May 28 07:46:25 2015
Response via : Initial Calibration
DataAcq Meth:SIMMN.M

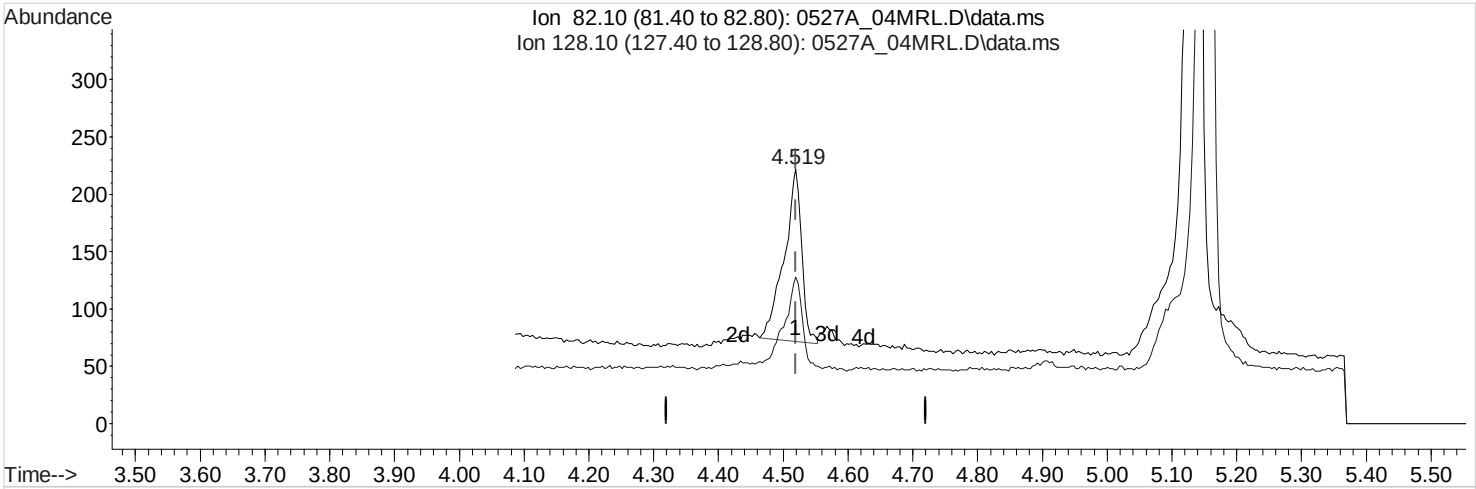


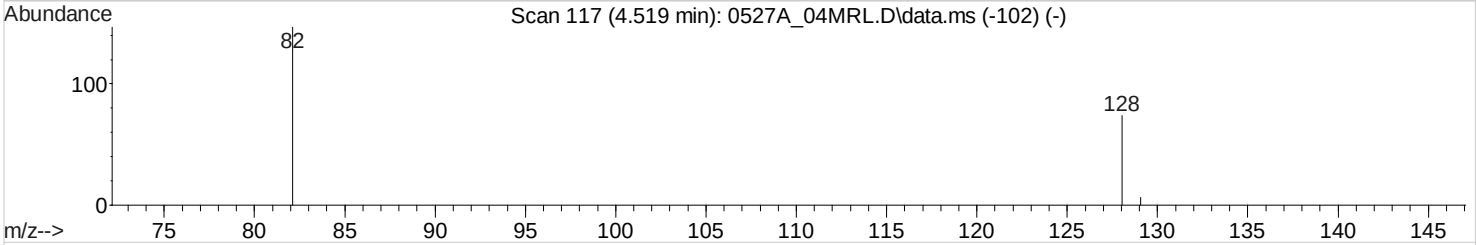
SS14E27O.M Thu May 28 07:48:31 2015 Page: 2

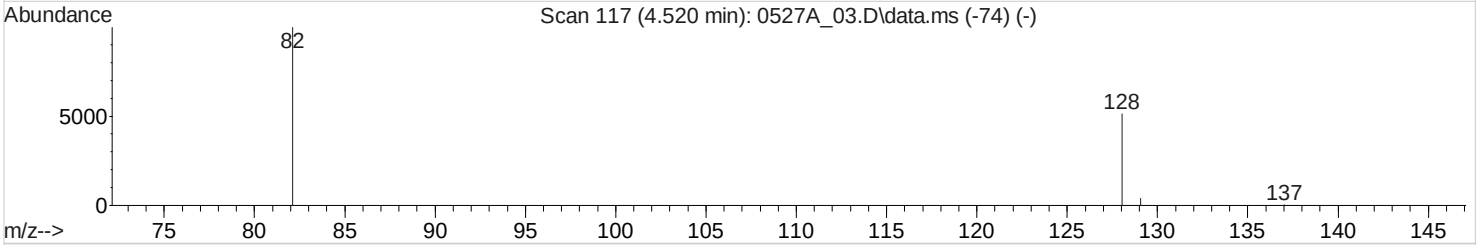
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\052715A\
Data File : 0527A 04MRL.D
Acq On : 27 May 2015 11:45 am
Operator : 280
Sample : MRL SIMLVI 1 PPB 15D23587
Misc : SIM CALIBRATION
ALS Vial : 12 Sample Multiplier: 1
InstName : BNAMS14

Quant Time: May 28 07:47:58 2015
Quant Method : C:\msdchem\1\METHODS\SS14E27O.M
Quant Title : 8270 BNA
QLast Update : Thu May 28 07:46:25 2015
Response via : Initial Calibration
DataAcq Meth:SIMMN.M







TIC: 0527A_04MRL.D\data.ms

(2) Nitrobenzene-d5 (S)

4.519min (-0.000) 0.7936292 ppb

Qvalue = 88

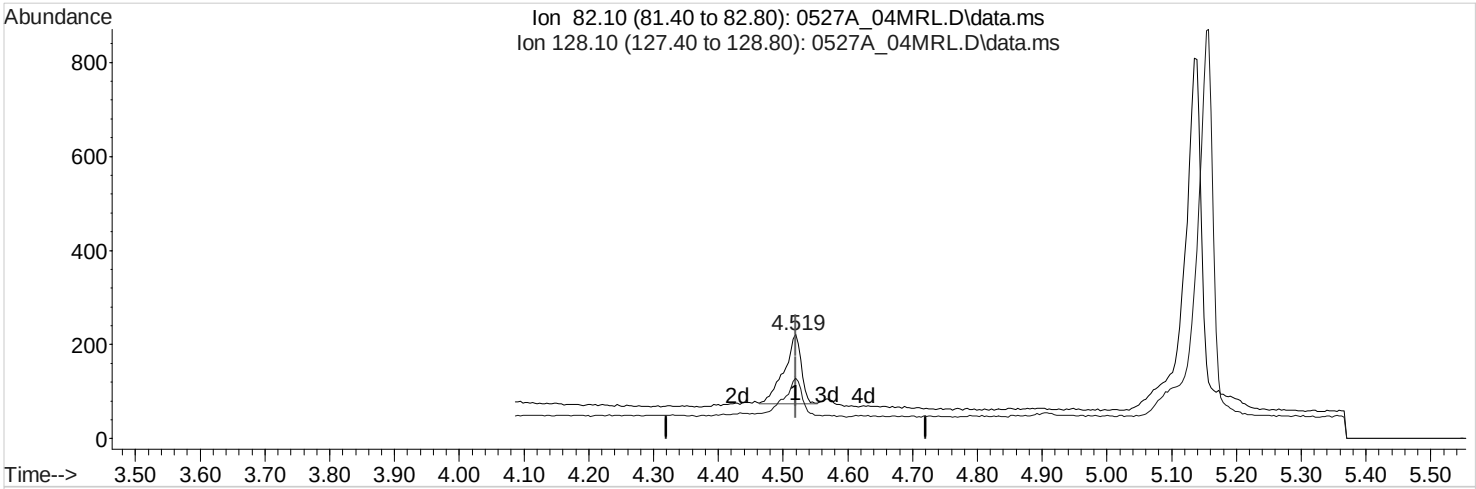
response 281

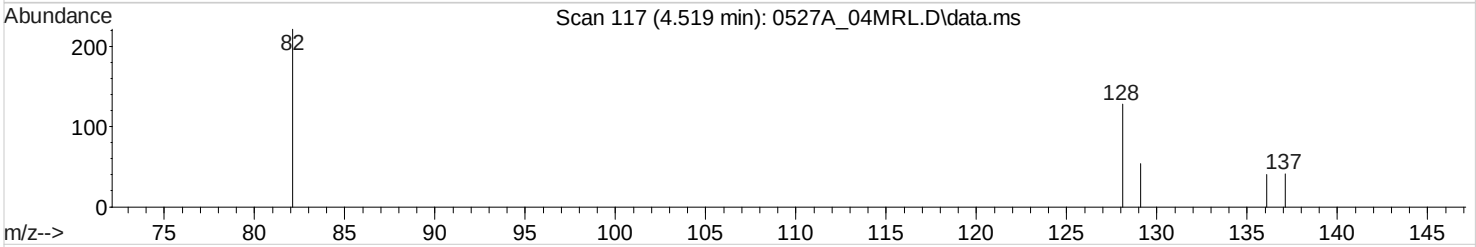
Ion	Exp%	Act%
82.10	100	100
128.10	45.50	53.06
0.00	0.00	0.00
0.00	0.00	0.00

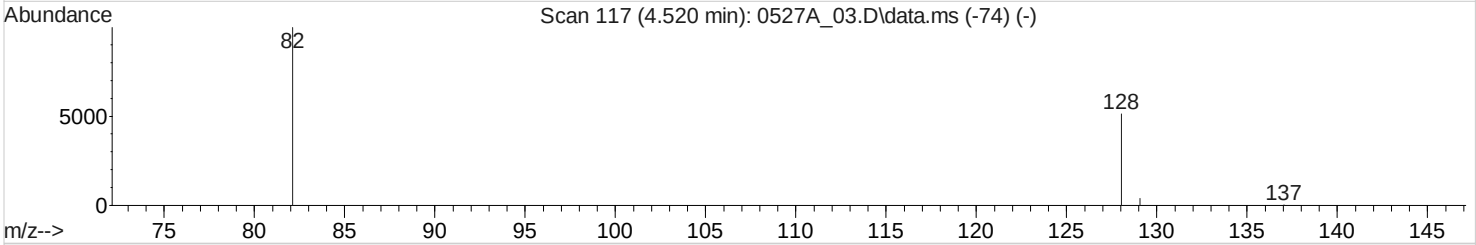
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\052715A\
Data File : 0527A 04MRL.D
Acq On : 27 May 2015 11:45 am
Operator : 280
Sample : MRL SIMLVI 1 PPB 15D23587
Misc : SIM CALIBRATION
ALS Vial : 12 Sample Multiplier: 1
InstName : BNAMS14

Quant Time: May 28 07:47:58 2015
Quant Method : C:\msdchem\1\METHODS\SS14E27O.M
Quant Title : 8270 BNA
QLast Update : Thu May 28 07:46:25 2015
Response via : Initial Calibration
DataAcq Meth:SIMMN.M







TIC: 0527A_04MRL.D\data.ms

(2) Nitrobenzene-d5 (S)

4.519min (-0.000) 0.7710347 ppb m

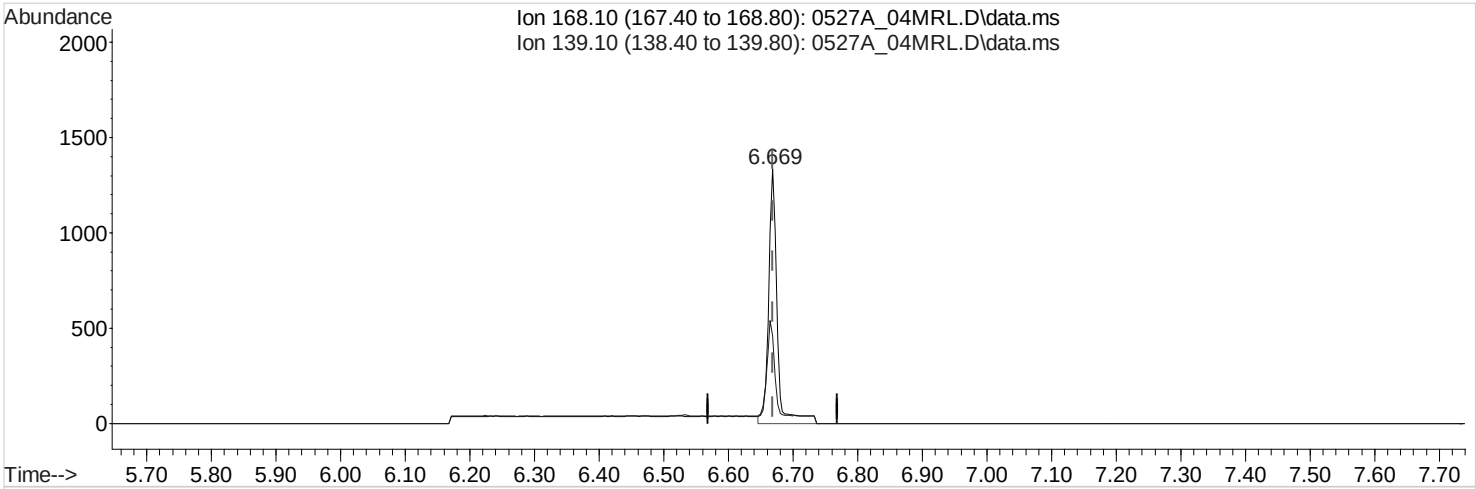
response 273

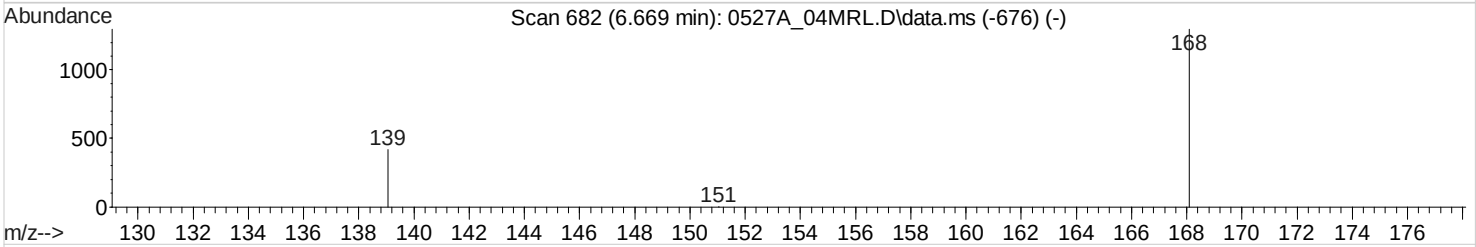
Ion	Exp%	Act%
82.10	100	100
128.10	45.50	57.66
0.00	0.00	0.00
0.00	0.00	0.00

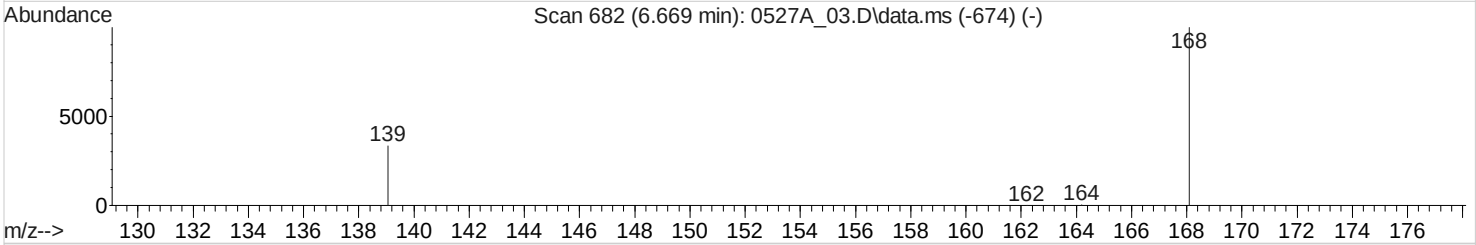
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\052715A\
Data File : 0527A 04MRL.D
Acq On : 27 May 2015 11:45 am
Operator : 280
Sample : MRL SIMLVI 1 PPB 15D23587
Misc : SIM CALIBRATION
ALS Vial : 12 Sample Multiplier: 1
InstName : BNAMS14

Quant Time: May 28 07:47:58 2015
Quant Method : C:\msdchem\1\METHODS\SS14E27O.M
Quant Title : 8270 BNA
QLast Update : Thu May 28 07:46:25 2015
Response via : Initial Calibration
DataAcq Meth:SIMMN.M







TIC: 0527A_04MRL.D\data.ms

(11) Dibenzofuran (MT)

6.669min (-0.000) 1.2312087 ppb

Qvalue = 89

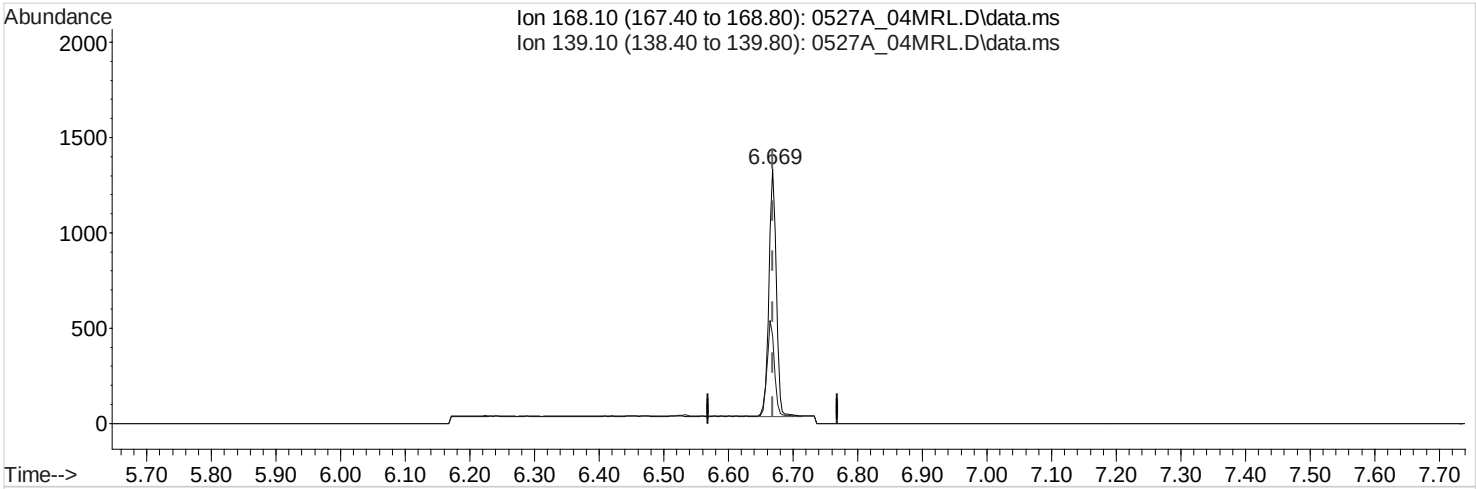
response 1217

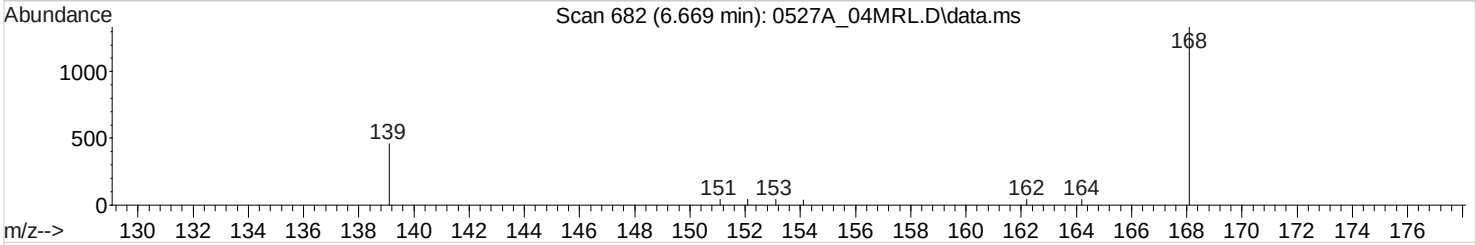
Ion	Exp%	Act%
168.10	100	100
139.10	28.50	34.31
0.00	0.00	0.00
0.00	0.00	0.00

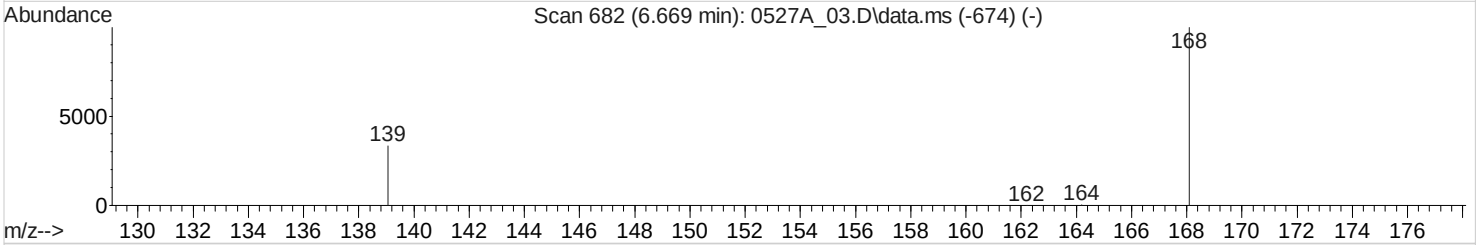
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\052715A\
Data File : 0527A 04MRL.D
Acq On : 27 May 2015 11:45 am
Operator : 280
Sample : MRL SIMLVI 1 PPB 15D23587
Misc : SIM CALIBRATION
ALS Vial : 12 Sample Multiplier: 1
InstName : BNAMS14

Quant Time: May 28 07:47:58 2015
Quant Method : C:\msdchem\1\METHODS\SS14E27O.M
Quant Title : 8270 BNA
QLast Update : Thu May 28 07:46:25 2015
Response via : Initial Calibration
DataAcq Meth:SIMMN.M







TIC: 0527A_04MRL.D\data.ms

(11) Dibenzofuran (MT)

6.669min (-0.000) 1.0329203 ppb m

response 1021

Ion	Exp%	Act%
168.10	100	100
139.10	28.50	34.31
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\052715A\
Data File : 0527A 12.D
Acq On : 27 May 2015 2:31 pm
Operator : 280
Sample : SSCV SIMLVI 40 PPB 15D23588
Misc : SIM SSCV
ALS Vial : 20 Sample Multiplier: 1
InstName : BNAMS14

Quant Time: May 28 07:47:03 2015
Quant Method : C:\msdchem\1\METHODS\SS14E27O.M
Quant Title : 8270 BNA
QLast Update : Thu May 28 07:46:25 2015
Response via : Initial Calibration
DataAcq Meth:SIMMN.M

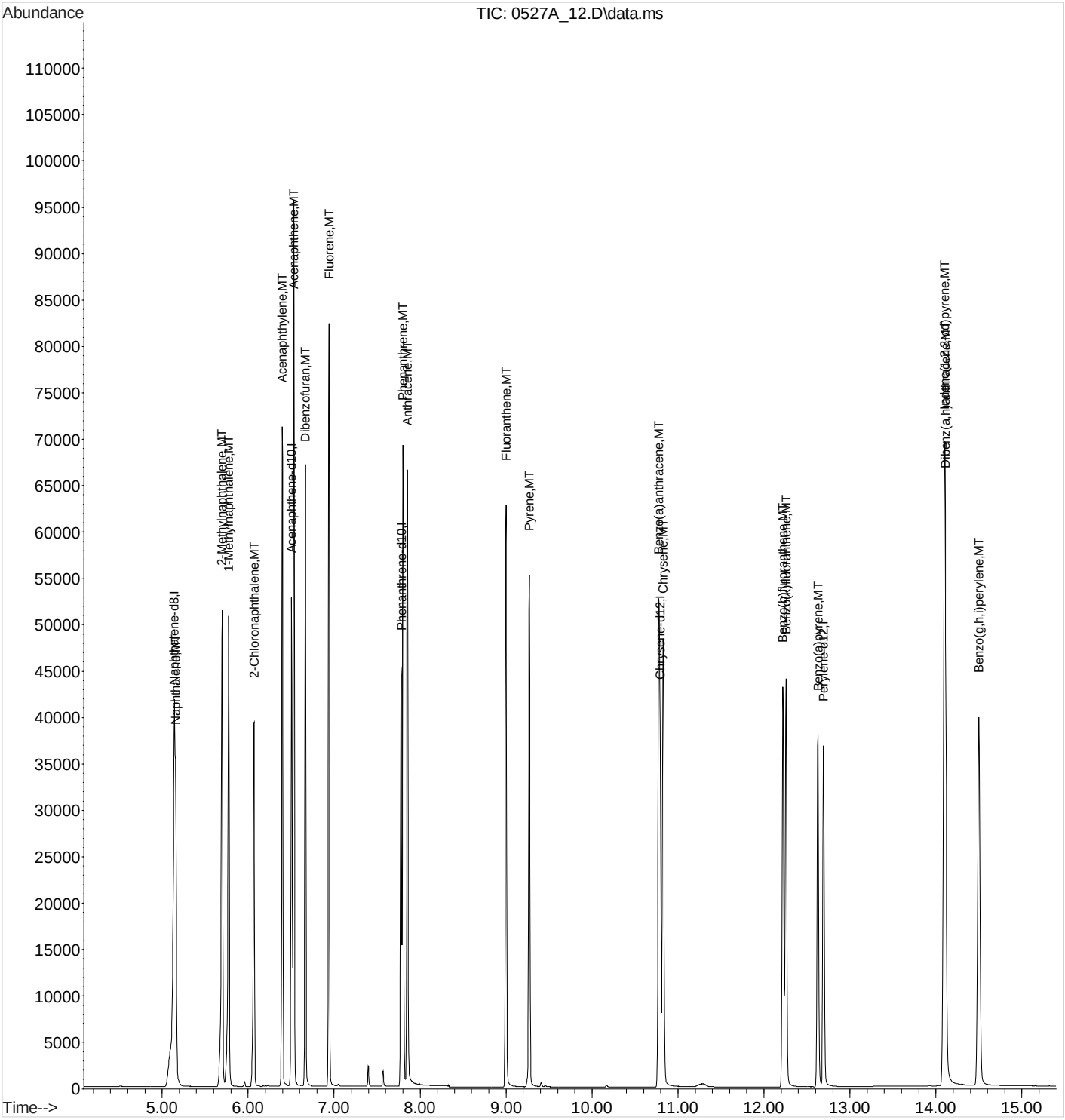
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8	5.139	136	42369	40.0000000	ppb	0.00
6) Acenaphthene-d10	6.507	164	23178	40.0000000	ppb	0.00
13) Phenanthrene-d10	7.782	188	37109	40.0000000	ppb	0.00
17) Chrysene-d12	10.794	240	35432	40.0000000	ppb	0.00
22) Perylene-d12	12.692	264	37262	40.0000000	ppb	0.00
System Monitoring Compounds						
2) Nitrobenzene-d5	0.000	82	0d	0.0000000	ppb	
Spiked Amount 2.000	Range 34 - 179		Recovery =	0.00%#		
7) 2-Fluorobiphenyl	0.000	172	0d	0.0000000	ppb	
Spiked Amount 2.000	Range 56 - 150		Recovery =	0.00%#		
19) p-Terphenyl-d14	0.000	244	0d	0.0000000	ppb	
Spiked Amount 2.000	Range 46 - 163		Recovery =	0.00%#		
Target Compounds						Qvalue
3) Naphthalene	5.157	128	49826	44.2763263	ppb	99
4) 2-Methylnaphthalene	5.698	142	32024	45.5024639	ppb	100
5) 1-Methylnaphthalene	5.776	142	30117	46.4380631	ppb	97
8) 2-Chloronaphthalene	6.070	162	30302	43.1530534	ppb	86
9) Acenaphthylene	6.397	152	46411	44.4832587	ppb	97
10) Acenaphthene	6.533	153	30813	44.0021888	ppb	97
11) Dibenzofuran	6.669	168	40813	44.3517402	ppb	99
12) Fluorene	6.941	166	33288	43.2876650	ppb	95
14) Phenanthrene	7.801	178	45068	42.9793429	ppb	100
15) Anthracene	7.852	178	44020	44.9651029	ppb	99
16) Fluoranthene	9.000	202	44869	43.5569064	ppb	99
18) Pyrene	9.272	202	41368	45.6662216	ppb	99
20) Benzo(a)anthracene	10.776	228	40508	45.9654964	ppb	99
21) Chrysene	10.826	228	41110	45.7088972	ppb	99
23) Benzo(b)fluoranthene	12.219	252	42738	44.3044916	ppb	98
24) Benzo(k)fluoranthene	12.257	252	44506	46.3892576	ppb	98
25) Benzo(a)pyrene	12.628	252	37798	46.2659503	ppb	99
26) Indeno(1,2,3-cd)pyrene	14.098	276	53024	45.6727021	ppb	98
27) Dibenz(a,h)anthracene	14.109	278	44451	45.3958832	ppb	97
28) Benzo(g,h,i)perylene	14.499	276	45220	45.3458748	ppb	96

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\052715A\
Data File : 0527A 12.D
Acq On : 27 May 2015 2:31 pm
Operator : 280
Sample : SSCV SIMLVI 40 PPB 15D23588
Misc : SIM SSCV
ALS Vial : 20 Sample Multiplier: 1
InstName : BNAMS14

Quant Time: May 28 07:47:03 2015
Quant Method : C:\msdchem\1\METHODS\SS14E27O.M
Quant Title : 8270 BNA
QLast Update : Thu May 28 07:46:25 2015
Response via : Initial Calibration
DataAcq Meth:SIMMN.M



Quantitation Report (Qedit)

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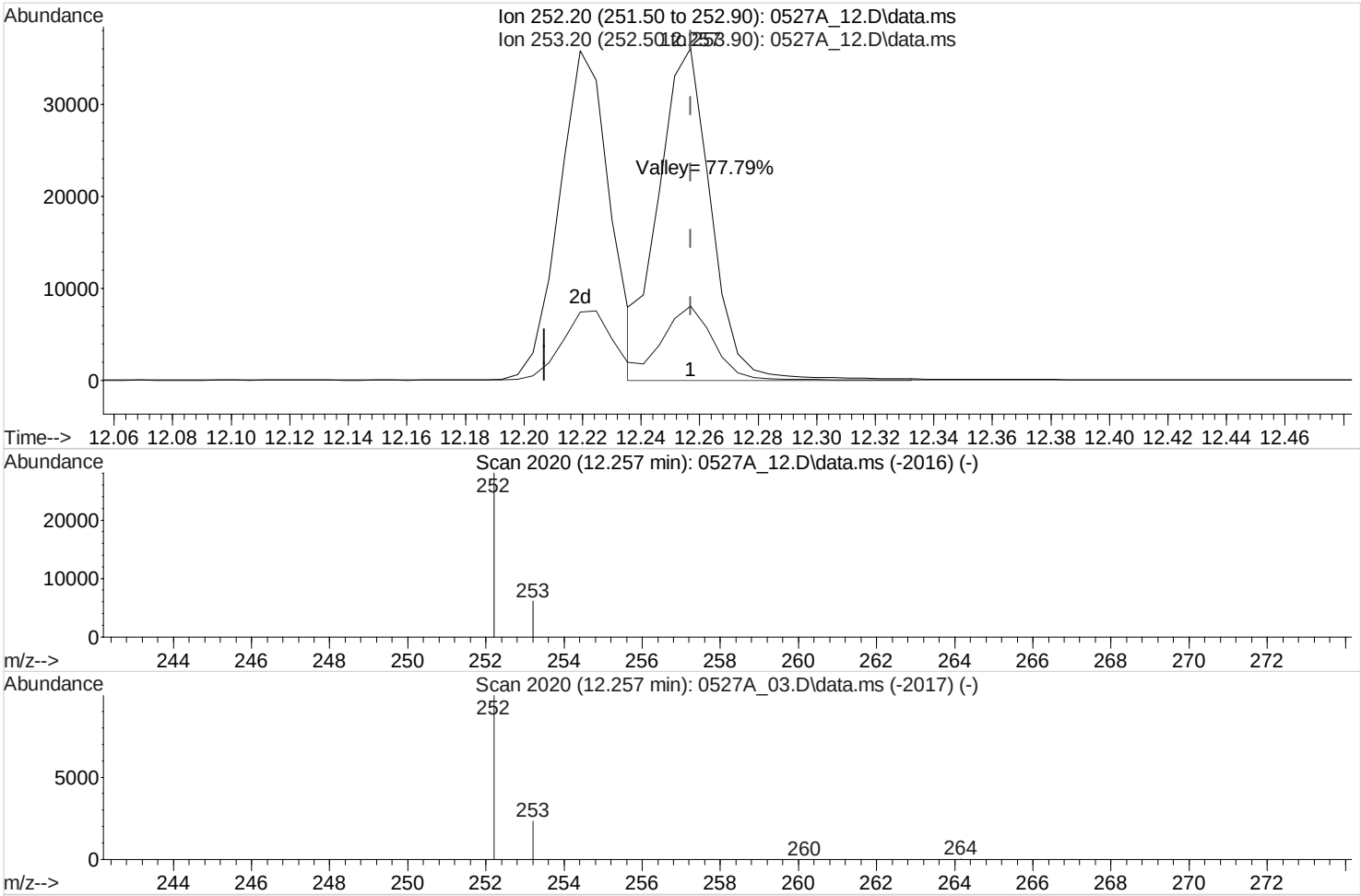
Data Path : C:\msdchem\1\DATA\052715A\
Data File : 0527A 12.D
Acq On    : 27 May 2015   2:31 pm
Operator  : 280
Sample    : SSCV SIMLVI 40 PPB 15D23588
Misc      : SIM SSCV
ALS Vial  : 20   Sample Multiplier: 1
InstName  : BNAMS14

Quant Time: May 28 07:46:49 2015
Quant Method : C:\msdchem\1\METHODS\SS14E27O.M
Quant Title  : 8270 BNA
QLast Update : Thu May 28 07:46:25 2015
Response via : Initial Calibration
DataAcq Meth:SIMMN.M
```



TIC: 0527A_12.D\data.ms

(24) Benzo(k)fluoranthene (MT)

12.257min (-0.000) 46.3892576 ppb

Qvalue = 98

response 44506

Ion	Exp%	Act%
252.20	100	100
253.20	21.50	22.33
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\052715A\
Data File : 0527A 03.D
Acq On : 27 May 2015 11:25 am
Operator : 280
Sample : MSTD SIMLVI 40 PPB 15D23587
Misc : SIM CALIBRATION
ALS Vial : 11 Sample Multiplier: 1
InstName : BNAMS14

Quant Time: May 27 11:41:52 2015
Quant Method : C:\msdchem\1\METHODS\SS14E27O.M
Quant Title : 8270 BNA
QLast Update : Wed May 27 11:41:48 2015
Response via : Initial Calibration
DataAcq Meth:SIMMN.M

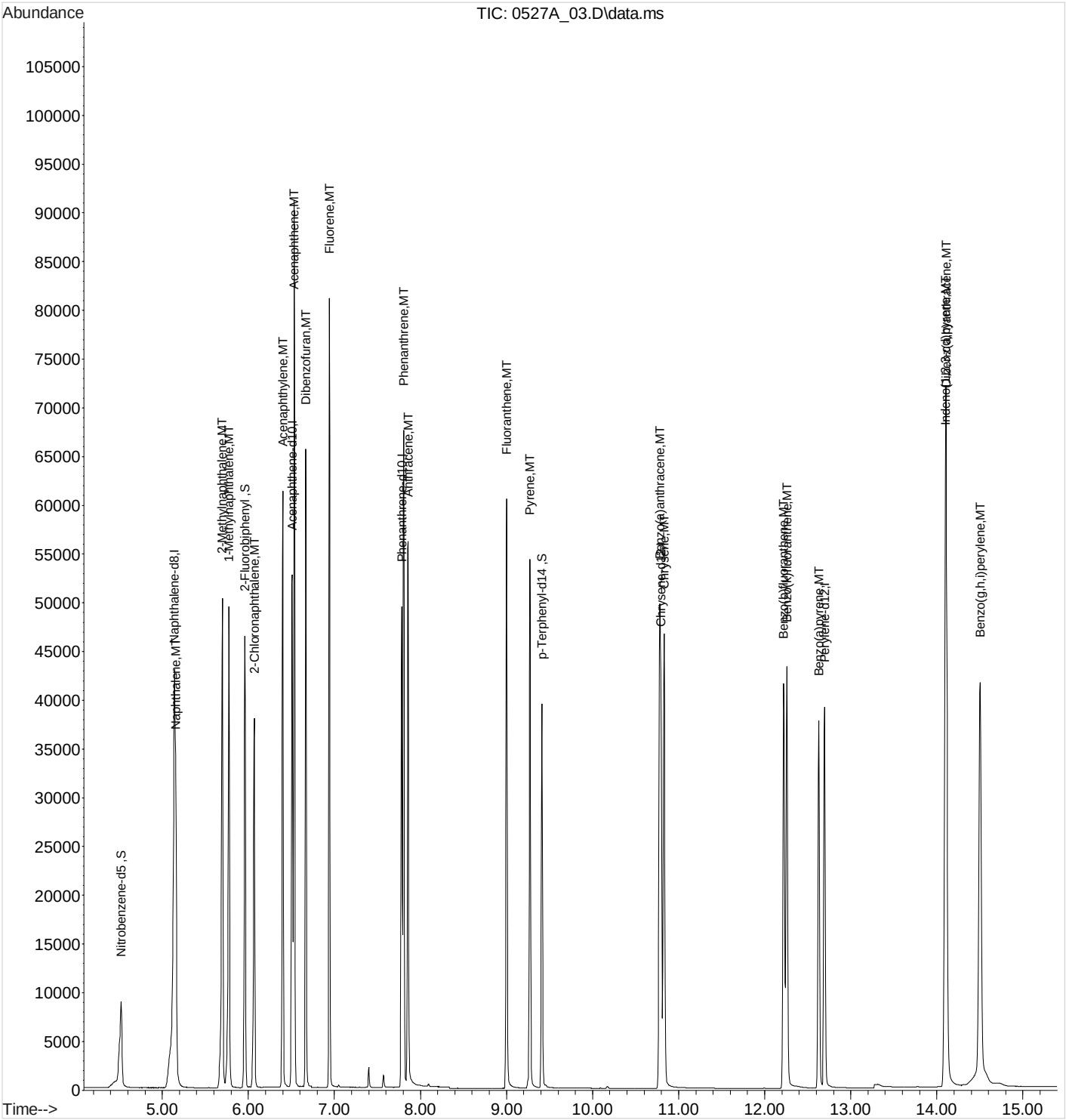
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Naphthalene-d8	5.139	136	46274	40.0000000 ppb	0.00
6) Acenaphthene-d10	6.510	164	24214	40.0000000 ppb	0.00
13) Phenanthrene-d10	7.782	188	38664	40.0000000 ppb	0.00
17) Chrysene-d12	10.794	240	36816	40.0000000 ppb	0.00
22) Perylene-d12	12.698	264	39800	40.0000000 ppb	0.00
System Monitoring Compounds					
2) Nitrobenzene-d5	4.520	82	13645	40.0510006 ppb	0.00
Spiked Amount 2.000	Range 34 - 179		Recovery = 2002.55%#		
7) 2-Fluorobiphenyl	5.960	172	32335	40.0000000 ppb	0.00
Spiked Amount 2.000	Range 56 - 150		Recovery = 2000.00%#		
19) p-Terphenyl-d14	9.410	244	32861	39.9732385 ppb	0.00
Spiked Amount 2.000	Range 46 - 163		Recovery = 1998.66%#		
Target Compounds					Qvalue
3) Naphthalene	5.157	128	49059	40.0510006 ppb	100
4) 2-Methylnaphthalene	5.698	142	31133	40.0510006 ppb	97
5) 1-Methylnaphthalene	5.776	142	29061	40.0896265 ppb	98
8) 2-Chloronaphthalene	6.070	162	29401	40.0040819 ppb	88
9) Acenaphthylene	6.401	152	41910	40.0000000 ppb	98
10) Acenaphthene	6.533	153	29385	40.0000000 ppb	99
11) Dibenzofuran	6.669	168	38794	40.0000000 ppb	91
12) Fluorene	6.941	166	31816	40.0000000 ppb	100
14) Phenanthrene	7.805	178	42917	40.0000000 ppb	99
15) Anthracene	7.856	178	40131	39.9940205 ppb	98
16) Fluoranthene	9.000	202	42190	40.0151752 ppb	99
18) Pyrene	9.272	202	38683	40.0000000 ppb	100
20) Benzo(a)anthracene	10.781	228	36514	40.0000000 ppb	100
21) Chrysene	10.831	228	39284	40.0000000 ppb	99
23) Benzo(b)fluoranthene	12.219	252	44612	40.0000000 ppb	99
24) Benzo(k)fluoranthene	12.257	252	41878	40.0000000 ppb	99
25) Benzo(a)pyrene	12.628	252	37669	40.0000000 ppb	99
26) Indeno(1,2,3-cd)pyrene	14.098	276	51506	40.0000000 ppb	99
27) Dibenz(a,h)anthracene	14.109	278	43256	40.0000000 ppb	98
28) Benzo(g,h,i)perylene	14.505	276	47299	40.0000000 ppb	94

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\052715A\
Data File : 0527A 03.D
Acq On : 27 May 2015 11:25 am
Operator : 280
Sample : MSTD SIMLVI 40 PPB 15D23587
Misc : SIM CALIBRATION
ALS Vial : 11 Sample Multiplier: 1
InstName : BNAMS14

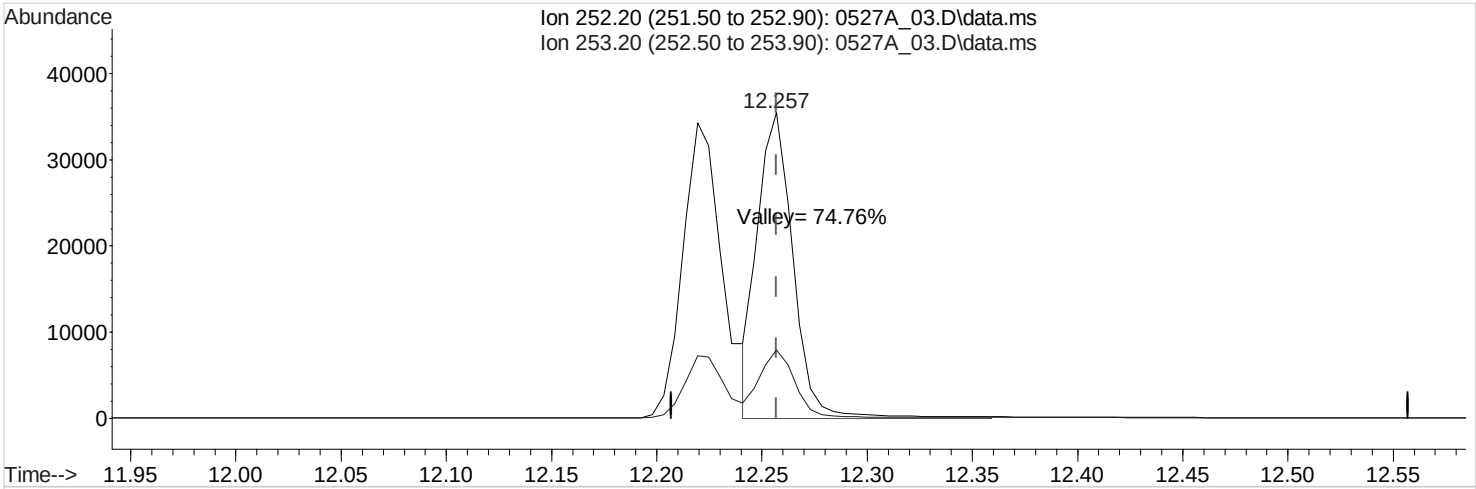
Quant Time: May 27 11:41:52 2015
Quant Method : C:\msdchem\1\METHODS\SS14E27O.M
Quant Title : 8270 BNA
QLast Update : Wed May 27 11:41:48 2015
Response via : Initial Calibration
DataAcq Meth:SIMMN.M

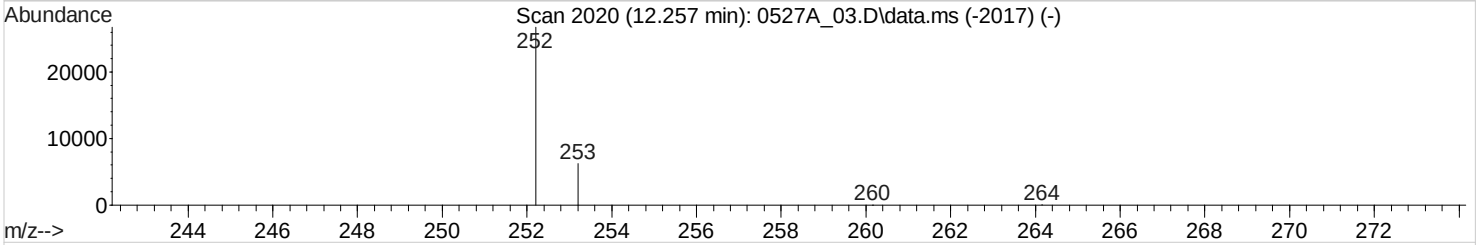


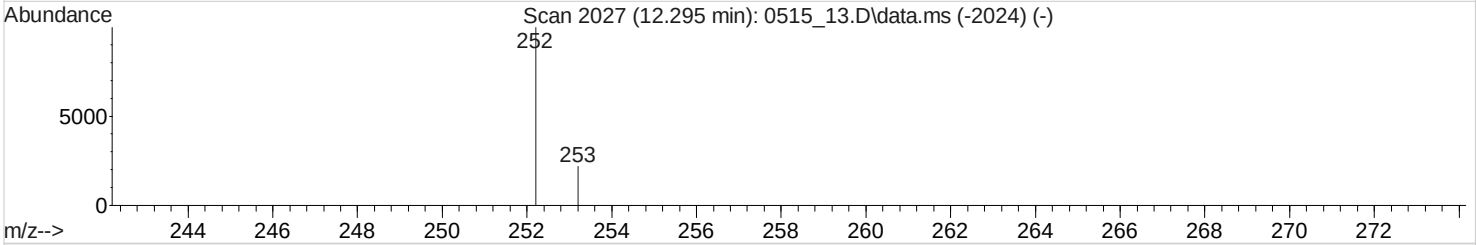
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\052715A\
Data File : 0527A 03.D
Acq On : 27 May 2015 11:25 am
Operator : 280
Sample : MSTD SIMLVI 40 PPB 15D23587
Misc : SIM CALIBRATION
ALS Vial : 11 Sample Multiplier: 1
InstName : BNAMS14

Quant Time: May 27 11:41:52 2015
Quant Method : C:\msdchem\1\METHODS\SS14E27O.M
Quant Title : 8270 BNA
QLast Update : Wed May 27 11:41:48 2015
Response via : Initial Calibration
DataAcq Meth:SIMMN.M







TIC: 0527A_03.D\data.ms

(24) Benzo(k)fluoranthene (MT)

12.257min (0.000) 40.0000000 ppb

Qvalue = 99

response 41878

Ion	Exp%	Act%
252.20	100	100
253.20	21.50	22.19
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\052715A\
Data File : 0527A 04.D
Acq On : 27 May 2015 11:45 am
Operator : 280
Sample : STD SIMLVI 1 PPB 15D23587
Misc : SIM CALIBRATION
ALS Vial : 12 Sample Multiplier: 1
InstName : BNAMS14

Quant Time: May 27 12:28:38 2015
Quant Method : C:\msdchem\1\METHODS\SS14E27O.M
Quant Title : 8270 BNA
QLast Update : Wed May 27 11:42:22 2015
Response via : Initial Calibration
DataAcq Meth:SIMMN.M

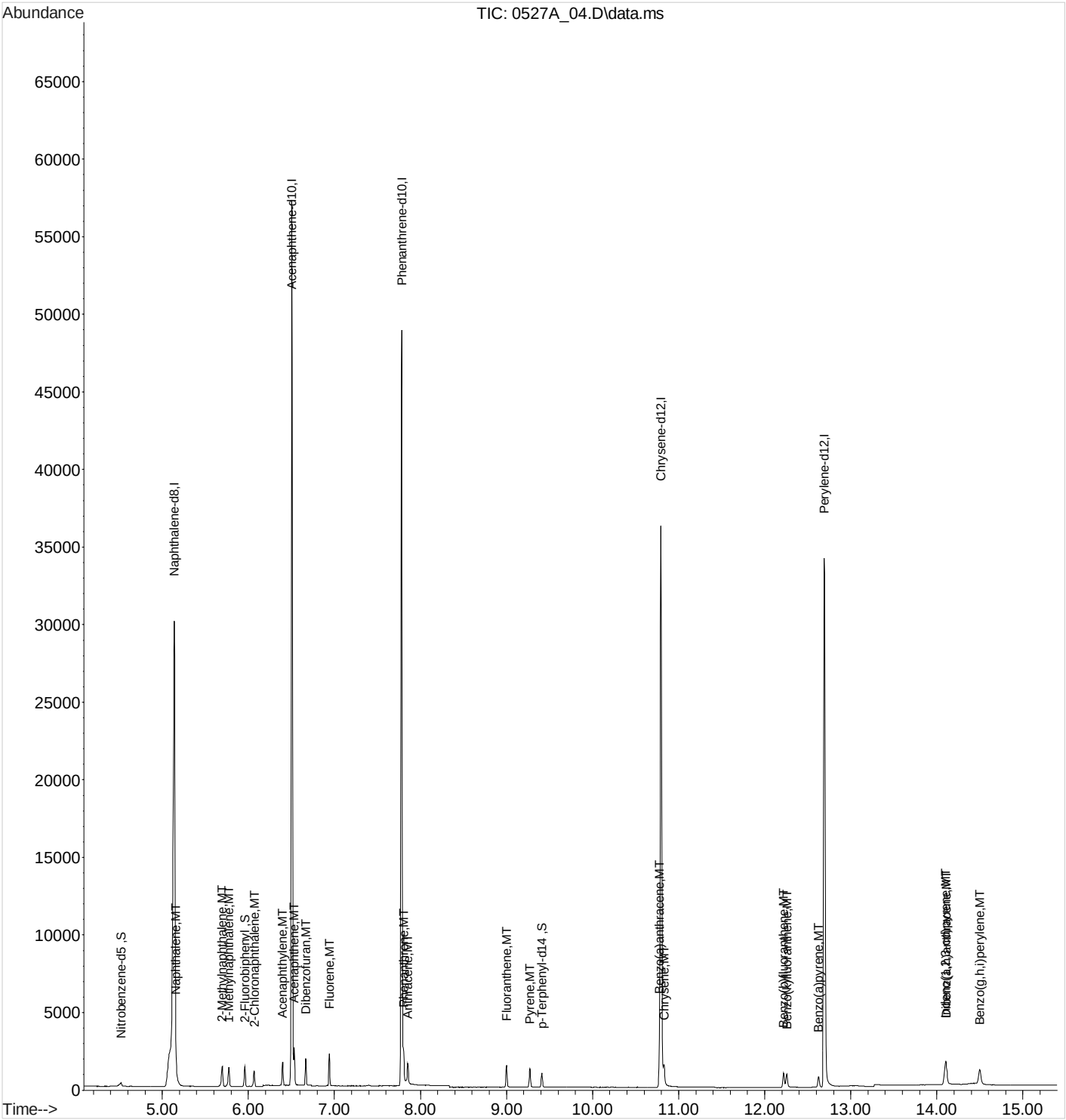
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8	5.139	136	47953	40.0000000	ppb	0.00
6) Acenaphthene-d10	6.507	164	24897	40.0000000	ppb	0.00
13) Phenanthrene-d10	7.782	188	39371	40.0000000	ppb	0.00
17) Chrysene-d12	10.794	240	35664	40.0000000	ppb	0.00
22) Perylene-d12	12.692	264	36302	40.0000000	ppb	0.00
System Monitoring Compounds						
2) Nitrobenzene-d5	4.519	82	273m	0.7722721	ppb	0.00
Spiked Amount 2.000	Range 34 - 179		Recovery = 38.61%			
7) 2-Fluorobiphenyl	5.960	172	851	1.0238497	ppb	0.00
Spiked Amount 2.000	Range 56 - 150		Recovery = 51.19%#			
19) p-Terphenyl-d14	9.410	244	813	1.0215892	ppb	0.00
Spiked Amount 2.000	Range 46 - 163		Recovery = 51.08%			
Target Compounds						Qvalue
3) Naphthalene	5.157	128	1502	1.1817687	ppb	100
4) 2-Methylnaphthalene	5.698	142	847	1.0501315	ppb	96
5) 1-Methylnaphthalene	5.776	142	780	1.0360132	ppb	97
8) 2-Chloronaphthalene	6.070	162	776	1.0267841	ppb	99
9) Acenaphthylene	6.397	152	1035	0.9607319	ppb	99
10) Acenaphthene	6.533	153	782	1.0352865	ppb	98
11) Dibenzofuran	6.669	168	1025m	1.0278715	ppb	
12) Fluorene	6.941	166	830	1.0148738	ppb	97
14) Phenanthrene	7.805	178	1142	1.0452666	ppb	99
15) Anthracene	7.852	178	916	0.8966146	ppb	98
16) Fluoranthene	9.000	202	1035	0.9636541	ppb	100
18) Pyrene	9.272	202	953	1.0172772	ppb	99
20) Benzo(a)anthracene	10.776	228	921	1.0415180	ppb	97
21) Chrysene	10.831	228	952	1.0006629	ppb	99
23) Benzo(b)fluoranthene	12.219	252	940	0.9240355	ppb	99
24) Benzo(k)fluoranthene	12.257	252	974	1.0199656	ppb	100
25) Benzo(a)pyrene	12.623	252	741	0.8626738	ppb	97
26) Indeno(1,2,3-cd)pyrene	14.098	276	1192	1.0149180	ppb	99
27) Dibenz(a,h)anthracene	14.109	278	999	1.0128185	ppb	94
28) Benzo(g,h,i)perylene	14.499	276	1091	1.0115452	ppb	98

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\052715A\
Data File : 0527A 04.D
Acq On : 27 May 2015 11:45 am
Operator : 280
Sample : STD SIMLVI 1 PPB 15D23587
Misc : SIM CALIBRATION
ALS Vial : 12 Sample Multiplier: 1
InstName : BNAMS14

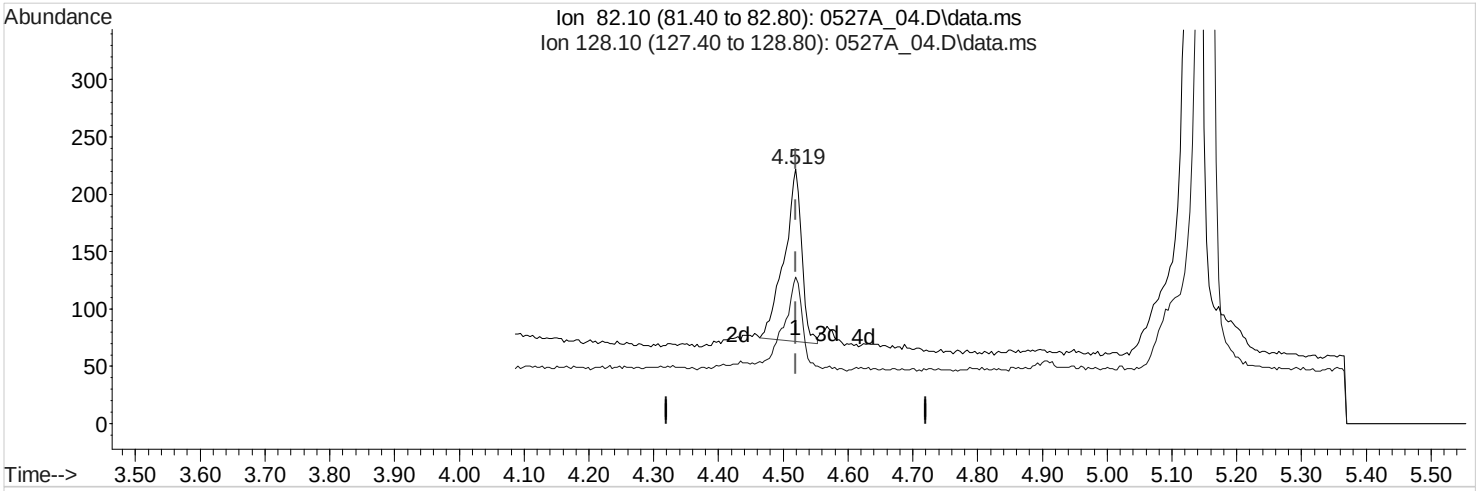
Quant Time: May 27 12:28:38 2015
Quant Method : C:\msdchem\1\METHODS\SS14E27O.M
Quant Title : 8270 BNA
QLast Update : Wed May 27 11:42:22 2015
Response via : Initial Calibration
DataAcq Meth:SIMMN.M

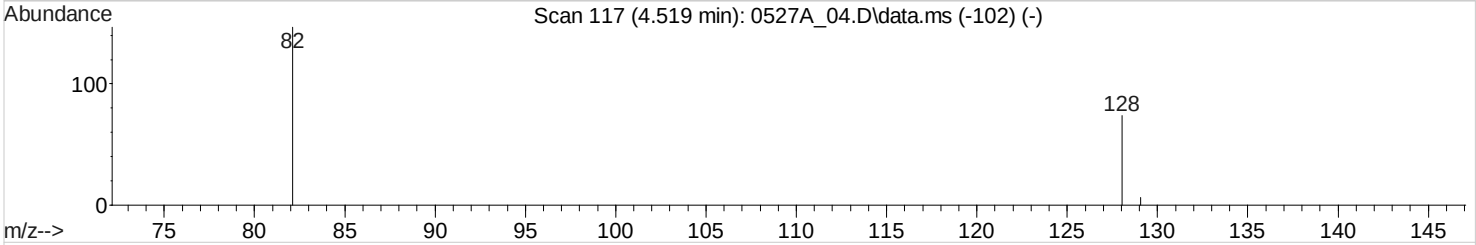


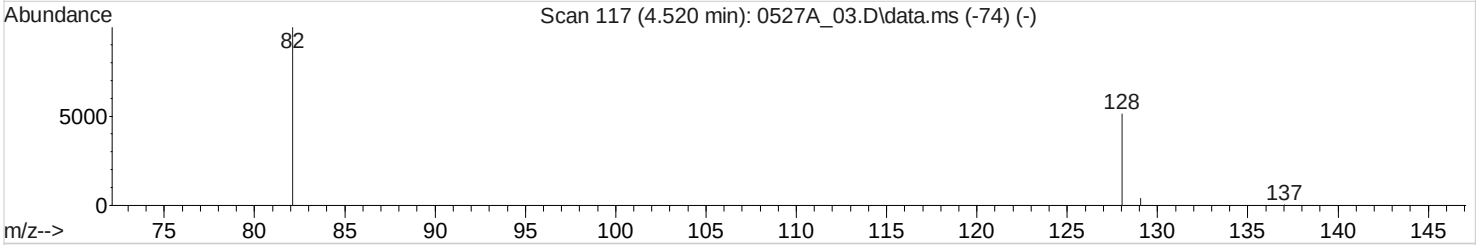
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\052715A\
Data File : 0527A 04.D
Acq On : 27 May 2015 11:45 am
Operator : 280
Sample : STD SIMLVI 1 PPB 15D23587
Misc : SIM CALIBRATION
ALS Vial : 12 Sample Multiplier: 1
InstName : BNAMS14

Quant Time: May 27 12:28:11 2015
Quant Method : C:\msdchem\1\METHODS\SS14E27O.M
Quant Title : 8270 BNA
QLast Update : Wed May 27 11:42:22 2015
Response via : Initial Calibration
DataAcq Meth:SIMMN.M







TIC: 0527A_04.D\data.ms

(2) Nitrobenzene-d5 (S)

4.519min (-0.000) 0.7949028 ppb

Qvalue = 98

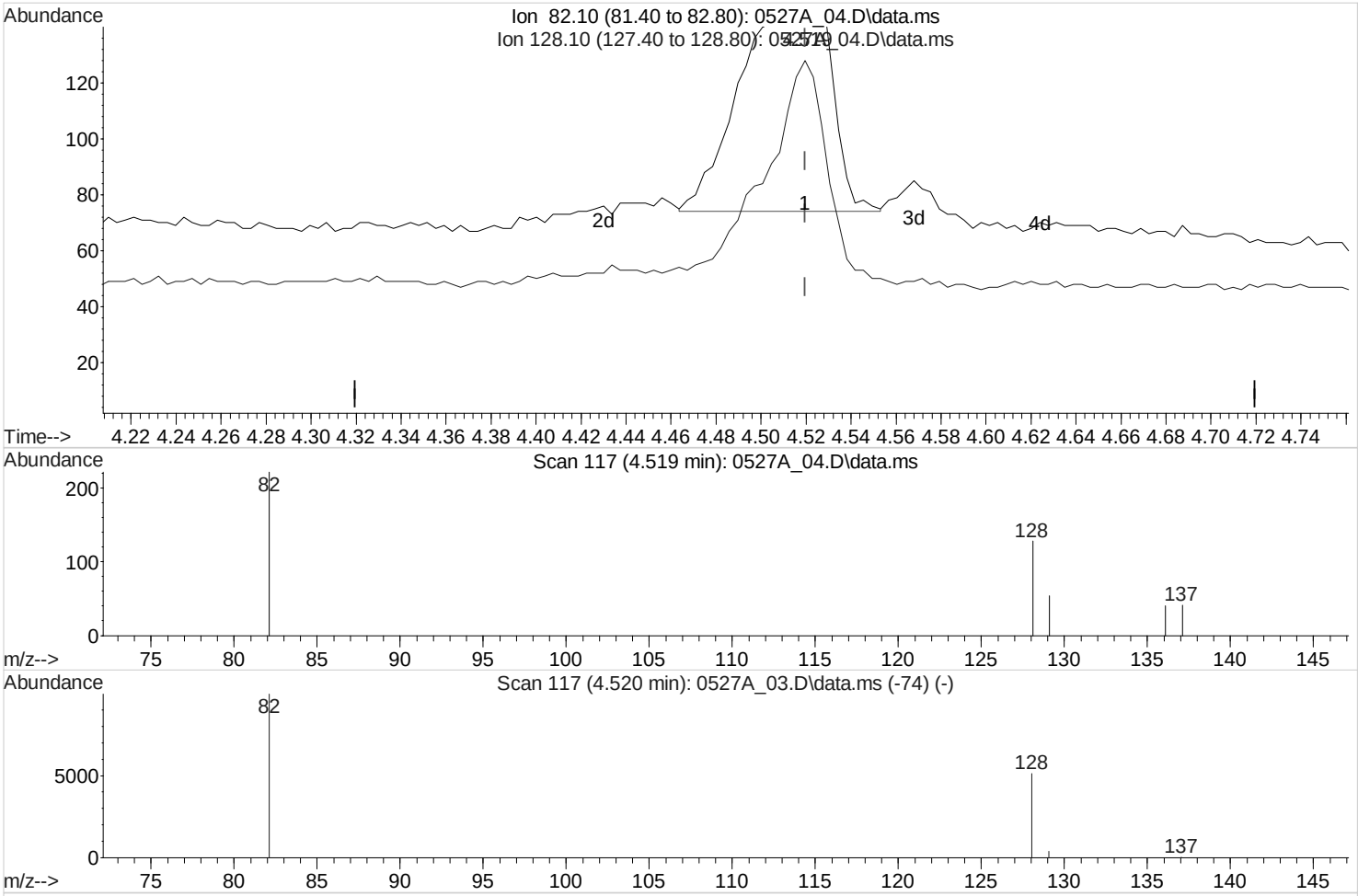
response 281

Ion	Exp%	Act%
82.10	100	100
128.10	51.40	53.06
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\052715A\
Data File : 0527A 04.D
Acq On : 27 May 2015 11:45 am
Operator : 280
Sample : STD SIMLVI 1 PPB 15D23587
Misc : SIM CALIBRATION
ALS Vial : 12 Sample Multiplier: 1
InstName : BNAMS14

Quant Time: May 27 12:28:11 2015
Quant Method : C:\msdchem\1\METHODS\SS14E27O.M
Quant Title : 8270 BNA
QLast Update : Wed May 27 11:42:22 2015
Response via : Initial Calibration
DataAcq Meth:SIMMN.M



TIC: 0527A_04.D\data.ms

(2) Nitrobenzene-d5 (S)

4.519min (-0.000) 0.7722721 ppb m

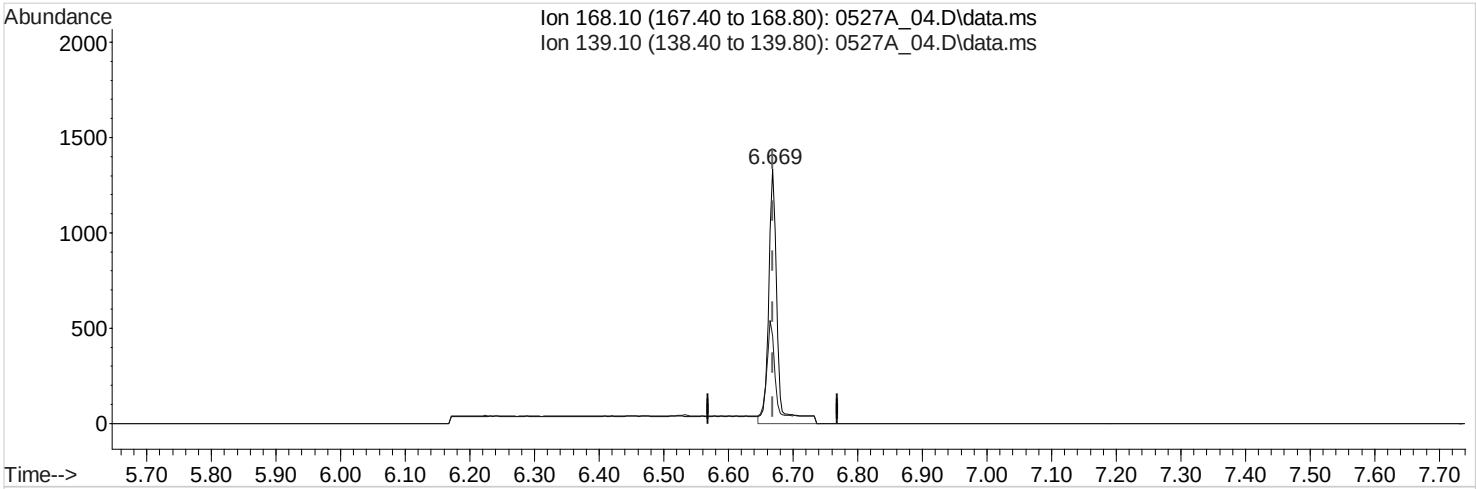
response 273

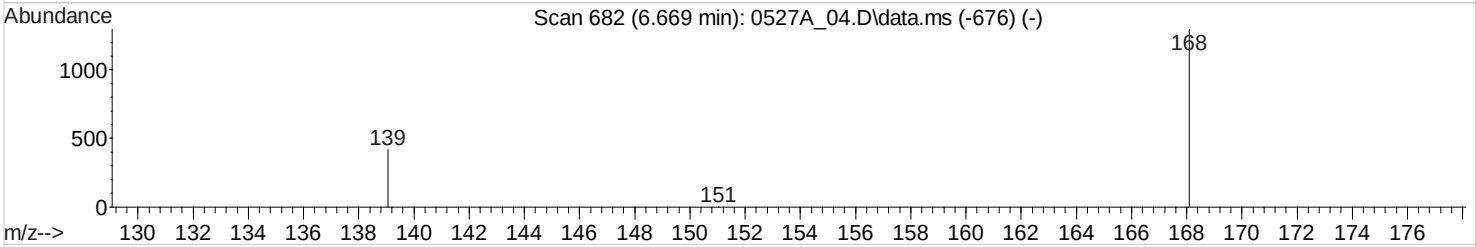
Ion	Exp%	Act%
82.10	100	100
128.10	51.40	57.66
0.00	0.00	0.00
0.00	0.00	0.00

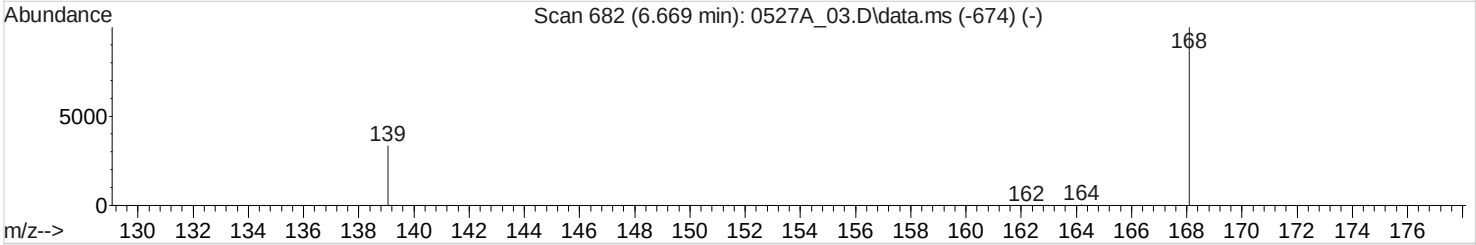
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\052715A\
Data File : 0527A 04.D
Acq On : 27 May 2015 11:45 am
Operator : 280
Sample : STD SIMLVI 1 PPB 15D23587
Misc : SIM CALIBRATION
ALS Vial : 12 Sample Multiplier: 1
InstName : BNAMS14

Quant Time: May 27 12:28:11 2015
Quant Method : C:\msdchem\1\METHODS\SS14E27O.M
Quant Title : 8270 BNA
QLast Update : Wed May 27 11:42:22 2015
Response via : Initial Calibration
DataAcq Meth:SIMMN.M







TIC: 0527A_04.D\data.ms

(11) Dibenzofuran (MT)

6.669min (-0.000) 1.2204094 ppb

Qvalue = 98

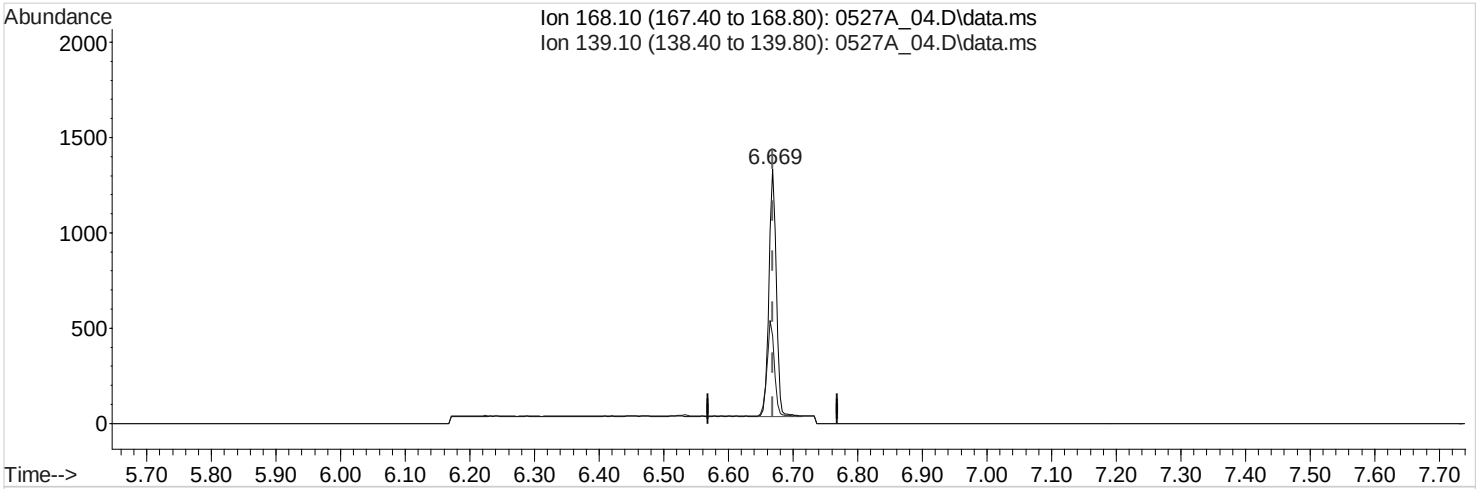
response 1217

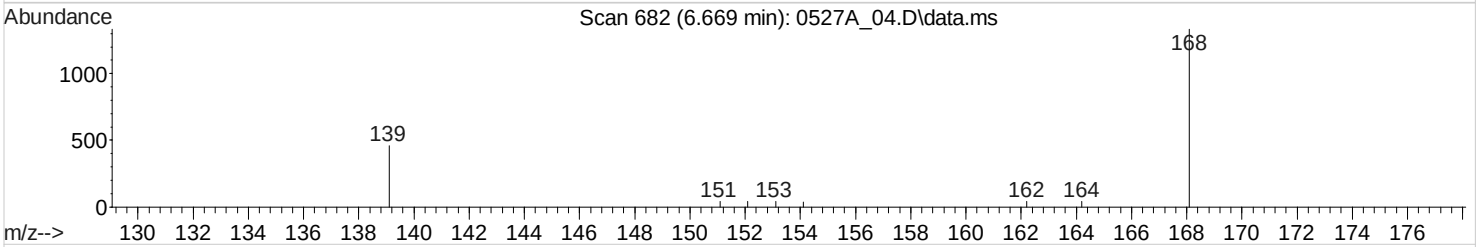
Ion	Exp%	Act%
168.10	100	100
139.10	33.20	34.31
0.00	0.00	0.00
0.00	0.00	0.00

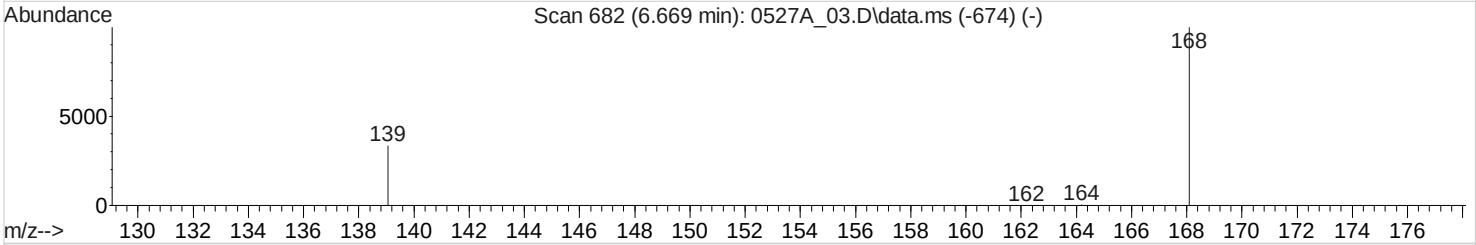
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\052715A\
Data File : 0527A 04.D
Acq On : 27 May 2015 11:45 am
Operator : 280
Sample : STD SIMLVI 1 PPB 15D23587
Misc : SIM CALIBRATION
ALS Vial : 12 Sample Multiplier: 1
InstName : BNAMS14

Quant Time: May 27 12:28:11 2015
Quant Method : C:\msdchem\1\METHODS\SS14E27O.M
Quant Title : 8270 BNA
QLast Update : Wed May 27 11:42:22 2015
Response via : Initial Calibration
DataAcq Meth:SIMMN.M







TIC: 0527A_04.D\data.ms

(11) Dibenzofuran (MT)

6.669min (-0.000) 1.0278715 ppb m

response 1025

Ion	Exp%	Act%
168.10	100	100
139.10	33.20	34.31
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\052715A\
Data File : 0527A 05.D
Acq On : 27 May 2015 12:06 pm
Operator : 280
Sample : STD SIMLVI 5 PPB 15D23587
Misc : SIM CALIBRATION
ALS Vial : 13 Sample Multiplier: 1
InstName : BNAMS14

Quant Time: May 27 12:29:29 2015
Quant Method : C:\msdchem\1\METHODS\SS14E27O.M
Quant Title : 8270 BNA
QLast Update : Wed May 27 12:29:05 2015
Response via : Initial Calibration
DataAcq Meth:SIMMN.M

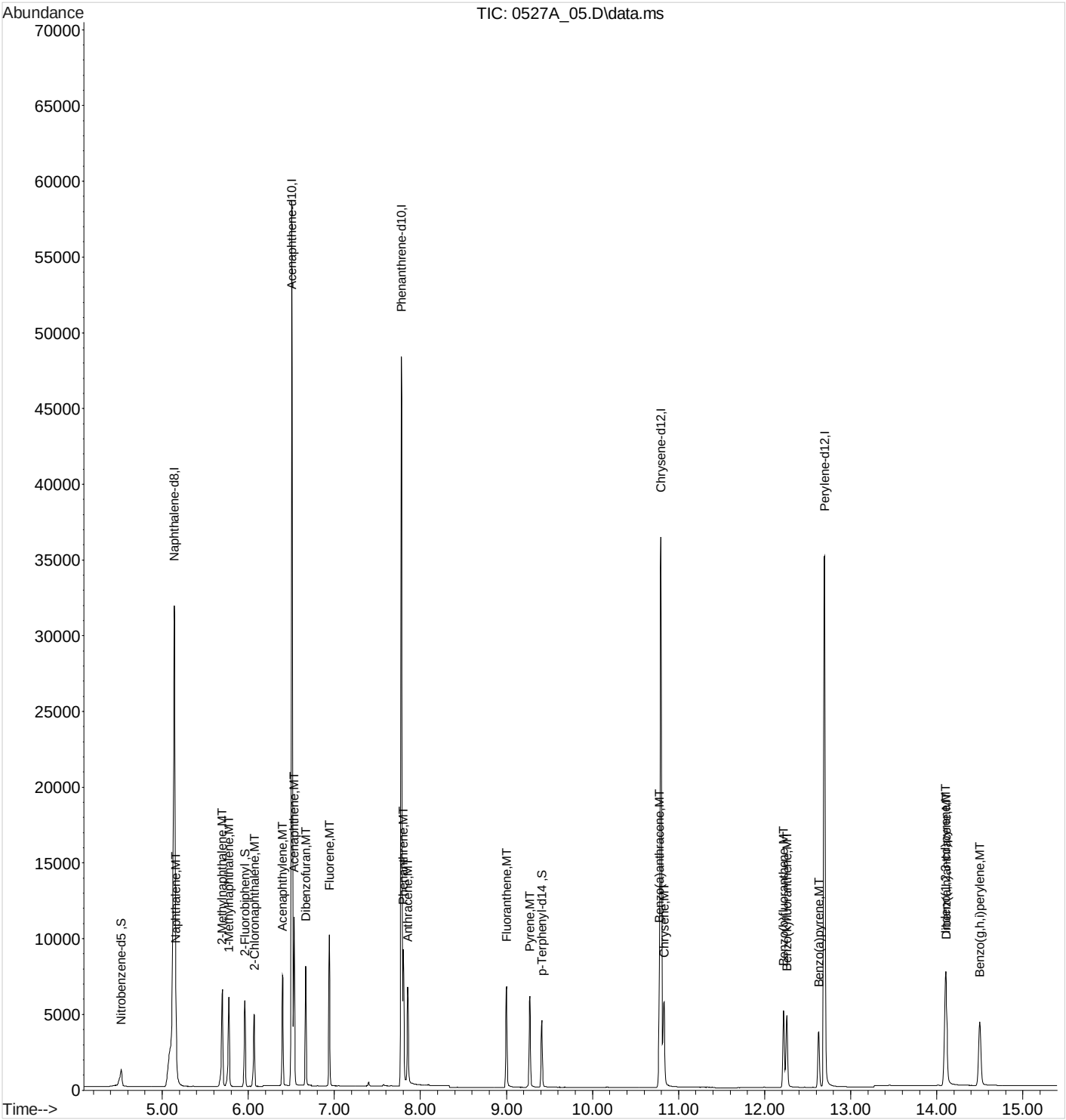
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8	5.139	136	47278	40.0000000	ppb	0.00
6) Acenaphthene-d10	6.507	164	24809	40.0000000	ppb	0.00
13) Phenanthrene-d10	7.778	188	39172	40.0000000	ppb	0.00
17) Chrysene-d12	10.795	240	35573	40.0000000	ppb	0.00
22) Perylene-d12	12.698	264	37655	40.0000000	ppb	0.00
System Monitoring Compounds						
2) Nitrobenzene-d5	4.523	82	1724	5.5821467	ppb	0.00
Spiked Amount 2.000	Range 34 - 179		Recovery = 279.11%#			
7) 2-Fluorobiphenyl	5.960	172	4064	4.8489739	ppb	0.00
Spiked Amount 2.000	Range 56 - 150		Recovery = 242.45%#			
19) p-Terphenyl-d14	9.410	244	3969	4.9466764	ppb	0.00
Spiked Amount 2.000	Range 46 - 163		Recovery = 247.33%#			
Target Compounds						Qvalue
3) Naphthalene	5.157	128	6387	4.6723724	ppb	100
4) 2-Methylnaphthalene	5.698	142	3930	4.8212293	ppb	99
5) 1-Methylnaphthalene	5.777	142	3657	4.8395139	ppb	100
8) 2-Chloronaphthalene	6.070	162	3697	4.8442565	ppb	96
9) Acenaphthylene	6.397	152	5018	4.7680638	ppb	98
10) Acenaphthene	6.533	153	3691	4.8188128	ppb	97
11) Dibenzofuran	6.669	168	4846m	4.8097853	ppb	
12) Fluorene	6.941	166	3952	4.8136087	ppb	96
14) Phenanthrene	7.801	178	5413	4.8694484	ppb	100
15) Anthracene	7.852	178	4641	4.8147475	ppb	98
16) Fluoranthene	9.000	202	5027	4.7913225	ppb	99
18) Pyrene	9.272	202	4630	4.9124865	ppb	99
20) Benzo(a)anthracene	10.776	228	4250	4.7204392	ppb	99
21) Chrysene	10.831	228	4742	4.9954893	ppb	99
23) Benzo(b)fluoranthene	12.219	252	4995	4.9206346	ppb	100
24) Benzo(k)fluoranthene	12.257	252	5136	5.1338776	ppb	100
25) Benzo(a)pyrene	12.628	252	3999	4.8192661	ppb	99
26) Indeno(1,2,3-cd)pyrene	14.098	276	5728	4.6670045	ppb	98
27) Dibenz(a,h)anthracene	14.109	278	4813	4.6742861	ppb	97
28) Benzo(g,h,i)perylene	14.499	276	5044	4.4827418	ppb	96

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\052715A\
Data File : 0527A 05.D
Acq On : 27 May 2015 12:06 pm
Operator : 280
Sample : STD SIMLVI 5 PPB 15D23587
Misc : SIM CALIBRATION
ALS Vial : 13 Sample Multiplier: 1
InstName : BNAMS14

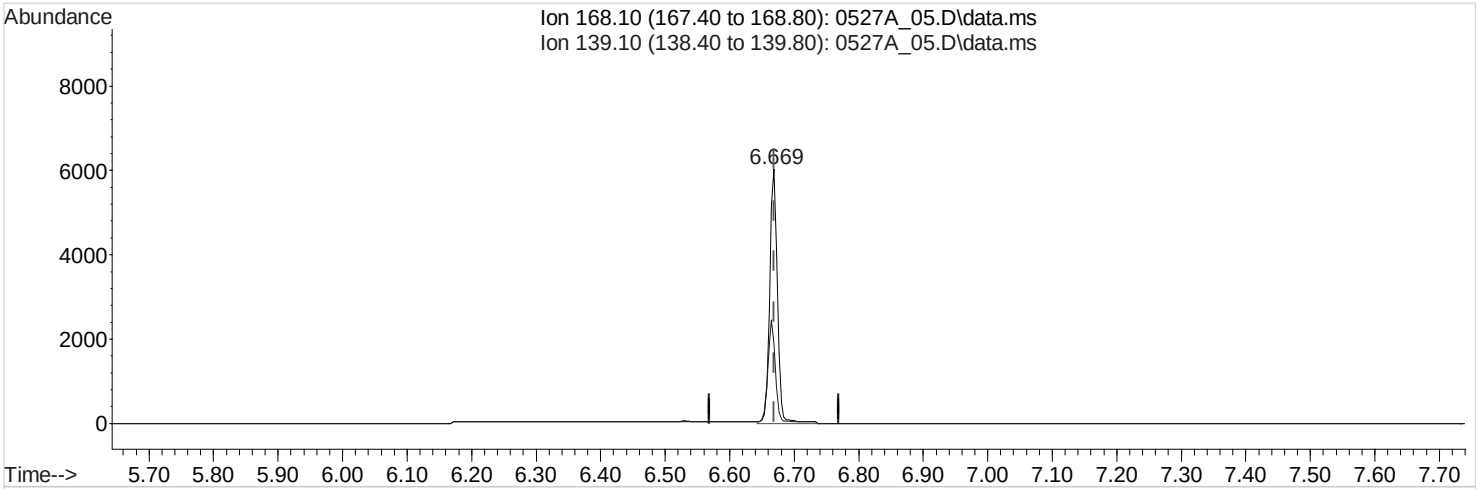
Quant Time: May 27 12:29:29 2015
Quant Method : C:\msdchem\1\METHODS\SS14E27O.M
Quant Title : 8270 BNA
QLast Update : Wed May 27 12:29:05 2015
Response via : Initial Calibration
DataAcq Meth:SIMMN.M

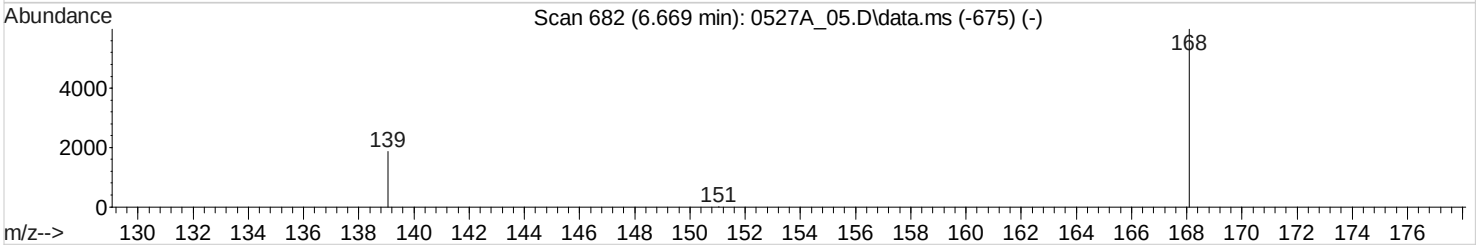


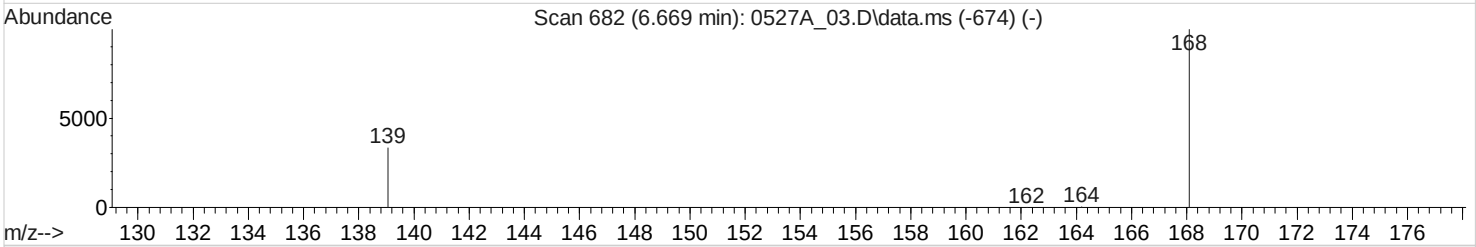
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\052715A\
Data File : 0527A 05.D
Acq On : 27 May 2015 12:06 pm
Operator : 280
Sample : STD SIMLVI 5 PPB 15D23587
Misc : SIM CALIBRATION
ALS Vial : 13 Sample Multiplier: 1
InstName : BNAMS14

Quant Time: May 27 12:29:09 2015
Quant Method : C:\msdchem\1\METHODS\SS14E27O.M
Quant Title : 8270 BNA
QLast Update : Wed May 27 12:29:05 2015
Response via : Initial Calibration
DataAcq Meth:SIMMN.M







TIC: 0527A_05.D\data.ms

(11) Dibenzofuran (MT)

6.669min (+0.000) 5.0192084 ppb

Qvalue = 97

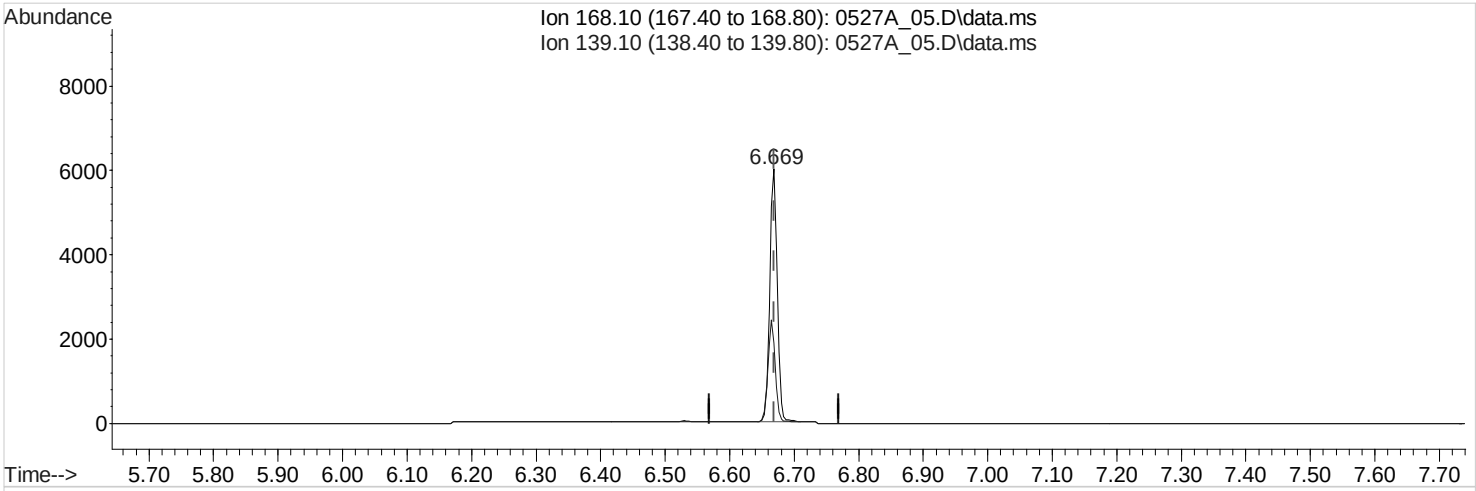
response 5057

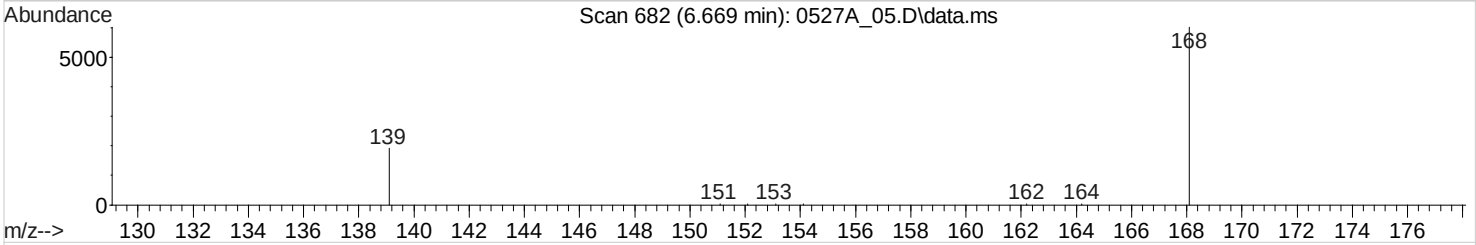
Ion	Exp%	Act%
168.10	100	100
139.10	33.20	31.71
0.00	0.00	0.00
0.00	0.00	0.00

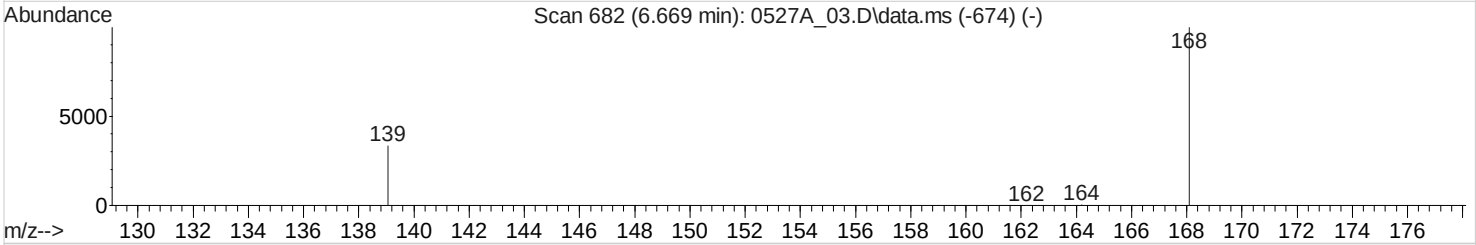
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\052715A\
Data File : 0527A 05.D
Acq On : 27 May 2015 12:06 pm
Operator : 280
Sample : STD SIMLVI 5 PPB 15D23587
Misc : SIM CALIBRATION
ALS Vial : 13 Sample Multiplier: 1
InstName : BNAMS14

Quant Time: May 27 12:29:09 2015
Quant Method : C:\msdchem\1\METHODS\SS14E27O.M
Quant Title : 8270 BNA
QLast Update : Wed May 27 12:29:05 2015
Response via : Initial Calibration
DataAcq Meth:SIMMN.M







TIC: 0527A_05.D\data.ms

(11) Dibenzofuran (MT)

6.669min (+0.000) 4.8097853 ppb m

response 4846

Ion	Exp%	Act%
168.10	100	100
139.10	33.20	31.71
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\052715A\
Data File : 0527A 06.D
Acq On : 27 May 2015 12:27 pm
Operator : 280
Sample : STD SIMLVI 10 PPB 15D23587
Misc : SIM CALIBRATION
ALS Vial : 14 Sample Multiplier: 1
InstName : BNAMS14

Quant Time: May 27 13:02:46 2015
Quant Method : C:\msdchem\1\METHODS\SS14E27O.M
Quant Title : 8270 BNA
QLast Update : Wed May 27 12:29:46 2015
Response via : Initial Calibration
DataAcq Meth:SIMMN.M

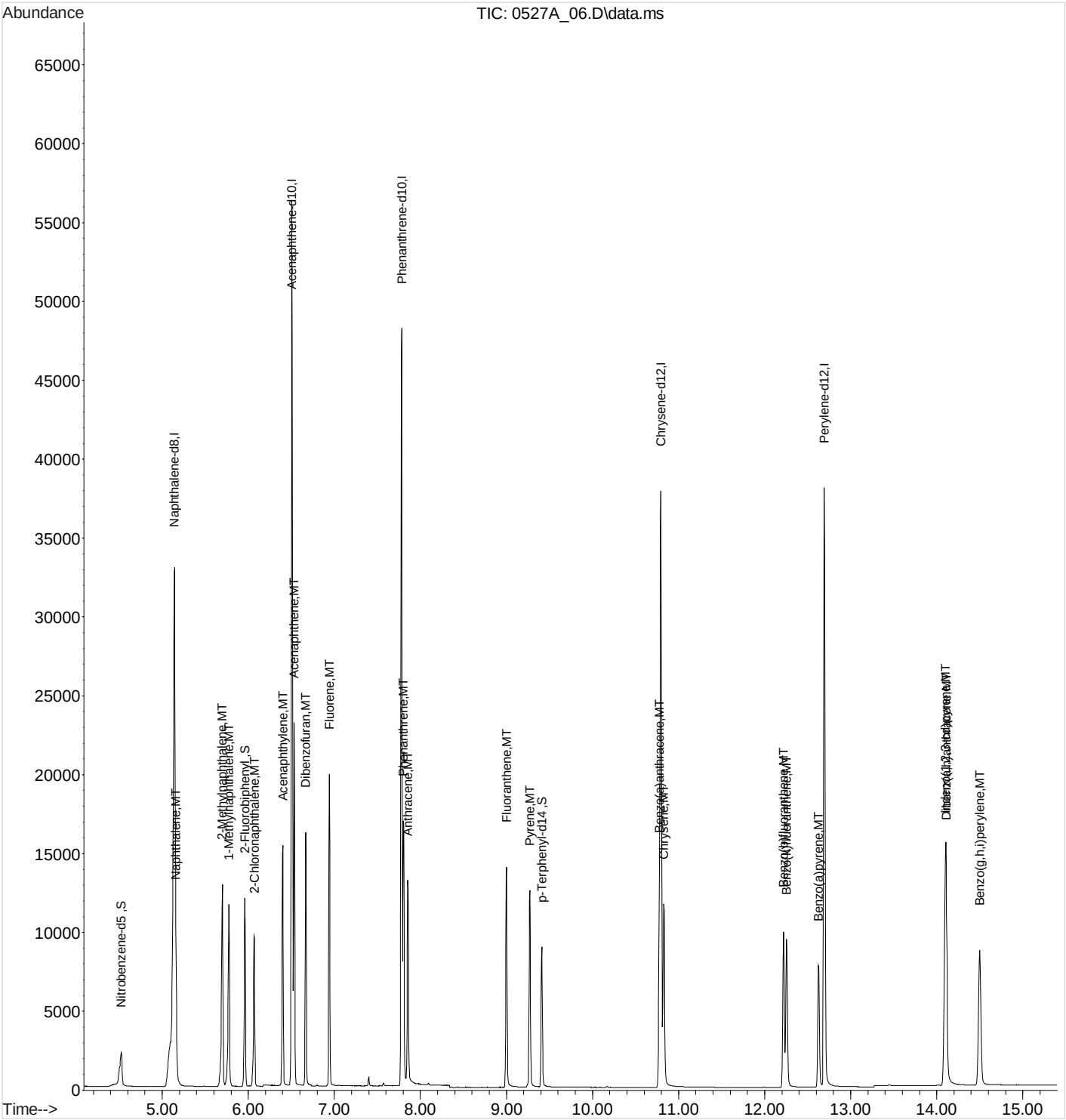
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8	5.139	136	46819	40.0000000	ppb	0.00
6) Acenaphthene-d10	6.507	164	24743	40.0000000	ppb	0.00
13) Phenanthrene-d10	7.782	188	39283	40.0000000	ppb	0.00
17) Chrysene-d12	10.795	240	35941	40.0000000	ppb	0.00
22) Perylene-d12	12.693	264	37915	40.0000000	ppb	0.00
System Monitoring Compounds						
2) Nitrobenzene-d5	4.523	82	3482	10.9595743	ppb	0.00
Spiked Amount 2.000	Range 34 - 179		Recovery = 547.98%#			
7) 2-Fluorobiphenyl	5.960	172	8174	9.8783065	ppb	0.00
Spiked Amount 2.000	Range 56 - 150		Recovery = 493.92%#			
19) p-Terphenyl-d14	9.410	244	8016	9.9235503	ppb	0.00
Spiked Amount 2.000	Range 46 - 163		Recovery = 496.18%#			
Target Compounds						Qvalue
3) Naphthalene	5.157	128	12608	9.5217026	ppb	100
4) 2-Methylnaphthalene	5.698	142	7855	9.8481675	ppb	98
5) 1-Methylnaphthalene	5.777	142	7350	9.9282492	ppb	99
8) 2-Chloronaphthalene	6.070	162	7452	9.8932786	ppb	98
9) Acenaphthylene	6.401	152	10303	9.9701043	ppb	100
10) Acenaphthene	6.533	153	7417	9.8278618	ppb	99
11) Dibenzofuran	6.669	168	10001	10.0805704	ppb	100
12) Fluorene	6.941	166	8017	9.9140938	ppb	99
14) Phenanthrene	7.801	178	10835	9.8047868	ppb	99
15) Anthracene	7.852	178	9583	10.0376382	ppb	98
16) Fluoranthene	9.000	202	10303	9.9303732	ppb	99
18) Pyrene	9.272	202	9483	10.0169997	ppb	98
20) Benzo(a)anthracene	10.776	228	8746	9.7972408	ppb	98
21) Chrysene	10.826	228	9765	10.1847338	ppb	98
23) Benzo(b)fluoranthene	12.219	252	10008	9.8434758	ppb	100
24) Benzo(k)fluoranthene	12.252	252	10100	9.9378973	ppb	97
25) Benzo(a)pyrene	12.623	252	8159	9.8842242	ppb	97
26) Indeno(1,2,3-cd)pyrene	14.098	276	11849	9.8056940	ppb	98
27) Dibenz(a,h)anthracene	14.109	278	9959	9.8188591	ppb	96
28) Benzo(g,h,i)perylene	14.499	276	10312	9.4267853	ppb	97

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\052715A\
Data File : 0527A 06.D
Acq On : 27 May 2015 12:27 pm
Operator : 280
Sample : STD SIMLVI 10 PPB 15D23587
Misc : SIM CALIBRATION
ALS Vial : 14 Sample Multiplier: 1
InstName : BNAMS14

Quant Time: May 27 13:02:46 2015
Quant Method : C:\msdchem\1\METHODS\SS14E27O.M
Quant Title : 8270 BNA
QLast Update : Wed May 27 12:29:46 2015
Response via : Initial Calibration
DataAcq Meth:SIMMN.M



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\052715A\
Data File : 0527A 07.D
Acq On : 27 May 2015 12:48 pm
Operator : 280
Sample : STD SIMLVI 20 PPB 15D23587
Misc : SIM CALIBRATION
ALS Vial : 15 Sample Multiplier: 1
InstName : BNAMS14

Quant Time: May 27 13:05:32 2015
Quant Method : C:\msdchem\1\METHODS\SS14E27O.M
Quant Title : 8270 BNA
QLast Update : Wed May 27 13:02:58 2015
Response via : Initial Calibration
DataAcq Meth:SIMMN.M

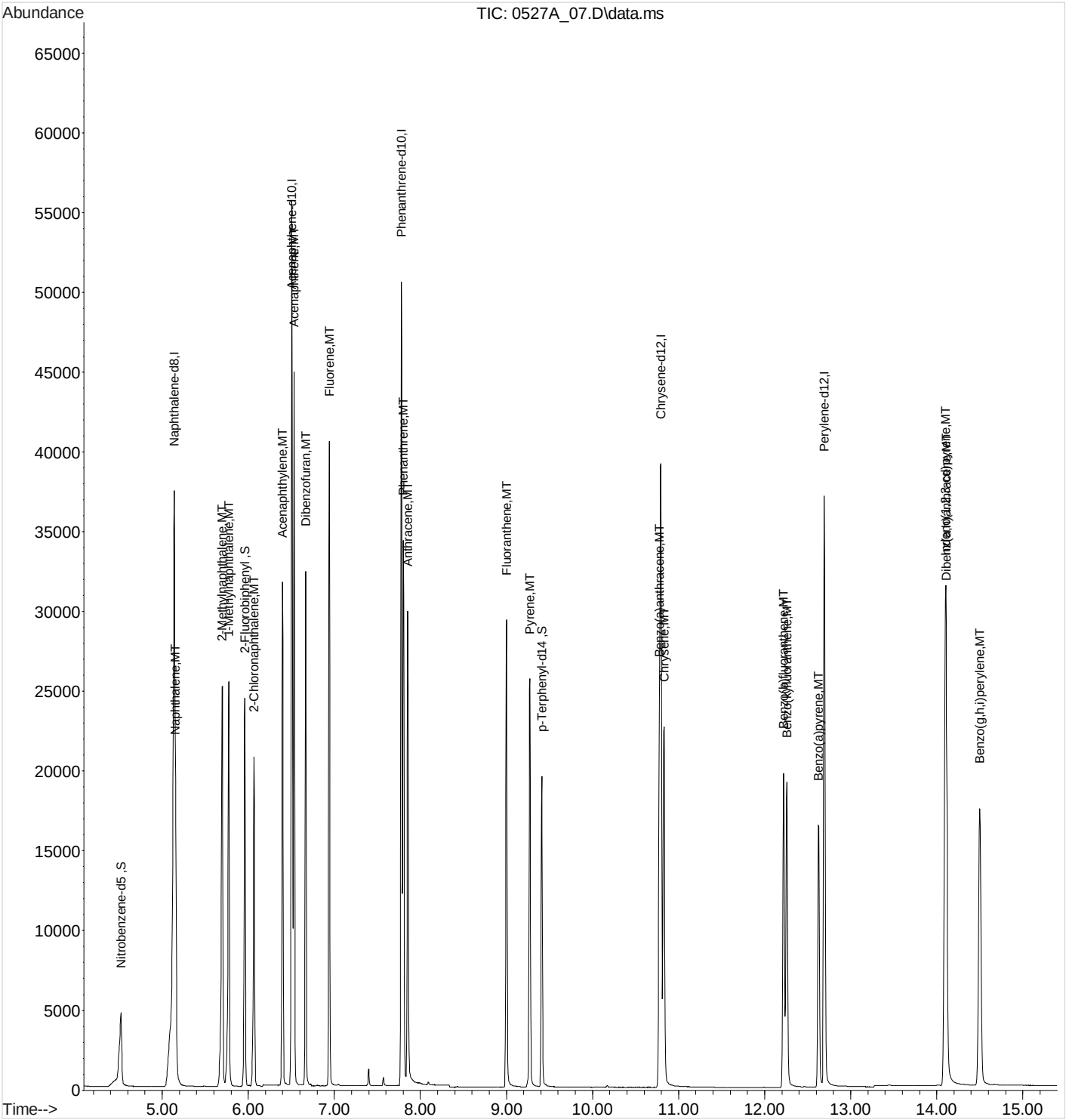
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8	5.139	136	47741	40.0000000	ppb	0.00
6) Acenaphthene-d10	6.507	164	25082	40.0000000	ppb	0.00
13) Phenanthrene-d10	7.778	188	39708	40.0000000	ppb	0.00
17) Chrysene-d12	10.795	240	36740	40.0000000	ppb	0.00
22) Perylene-d12	12.693	264	38266	40.0000000	ppb	0.00
System Monitoring Compounds						
2) Nitrobenzene-d5	4.520	82	7189	21.6704825	ppb	0.00
Spiked Amount 2.000	Range 34 - 179		Recovery = 1083.52%#			
7) 2-Fluorobiphenyl	5.960	172	16803	20.0931566	ppb	0.00
Spiked Amount 2.000	Range 56 - 150		Recovery = 1004.66%#			
19) p-Terphenyl-d14	9.410	244	16562	20.0957392	ppb	0.00
Spiked Amount 2.000	Range 46 - 163		Recovery = 1004.79%#			
Target Compounds						Qvalue
3) Naphthalene	5.154	128	25595	19.1857382	ppb	100
4) 2-Methylnaphthalene	5.698	142	16195	19.9881430	ppb	96
5) 1-Methylnaphthalene	5.773	142	15032	19.9486010	ppb	99
8) 2-Chloronaphthalene	6.066	162	15264	20.0440835	ppb	94
9) Acenaphthylene	6.397	152	21701	20.7314964	ppb	99
10) Acenaphthene	6.533	153	15174	19.9202155	ppb	95
11) Dibenzofuran	6.669	168	20278	20.1225534	ppb	93
12) Fluorene	6.941	166	16372	20.0155158	ppb	97
14) Phenanthrene	7.801	178	22104	19.8852674	ppb	99
15) Anthracene	7.852	178	20365	21.0830112	ppb	98
16) Fluoranthene	9.000	202	21270	20.3166742	ppb	99
18) Pyrene	9.272	202	19625	20.2706673	ppb	98
20) Benzo(a)anthracene	10.776	228	18429	20.2980403	ppb	98
21) Chrysene	10.831	228	19859	20.1690160	ppb	99
23) Benzo(b)fluoranthene	12.219	252	19863	19.4333105	ppb	100
24) Benzo(k)fluoranthene	12.257	252	20857	20.3656258	ppb	99
25) Benzo(a)pyrene	12.623	252	17128	20.6190734	ppb	96
26) Indeno(1,2,3-cd)pyrene	14.098	276	24468	20.1608061	ppb	98
27) Dibenz(a,h)anthracene	14.109	278	20712	20.3252785	ppb	97
28) Benzo(g,h,i)perylene	14.499	276	21155	19.4401834	ppb	97

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\052715A\
Data File : 0527A 07.D
Acq On : 27 May 2015 12:48 pm
Operator : 280
Sample : STD SIMLVI 20 PPB 15D23587
Misc : SIM CALIBRATION
ALS Vial : 15 Sample Multiplier: 1
InstName : BNAMS14

Quant Time: May 27 13:05:32 2015
Quant Method : C:\msdchem\1\METHODS\SS14E27O.M
Quant Title : 8270 BNA
QLast Update : Wed May 27 13:02:58 2015
Response via : Initial Calibration
DataAcq Meth:SIMMN.M



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\052715A\
Data File : 0527A 08.D
Acq On : 27 May 2015 1:08 pm
Operator : 280
Sample : STD SIMLVI 80 PPB 15D23587
Misc : SIM CALIBRATION
ALS Vial : 16 Sample Multiplier: 1
InstName : BNAMS14

Quant Time: May 27 13:49:07 2015
Quant Method : C:\msdchem\1\METHODS\SS14E27O.M
Quant Title : 8270 BNA
QLast Update : Wed May 27 13:05:43 2015
Response via : Initial Calibration
DataAcq Meth:SIMMN.M

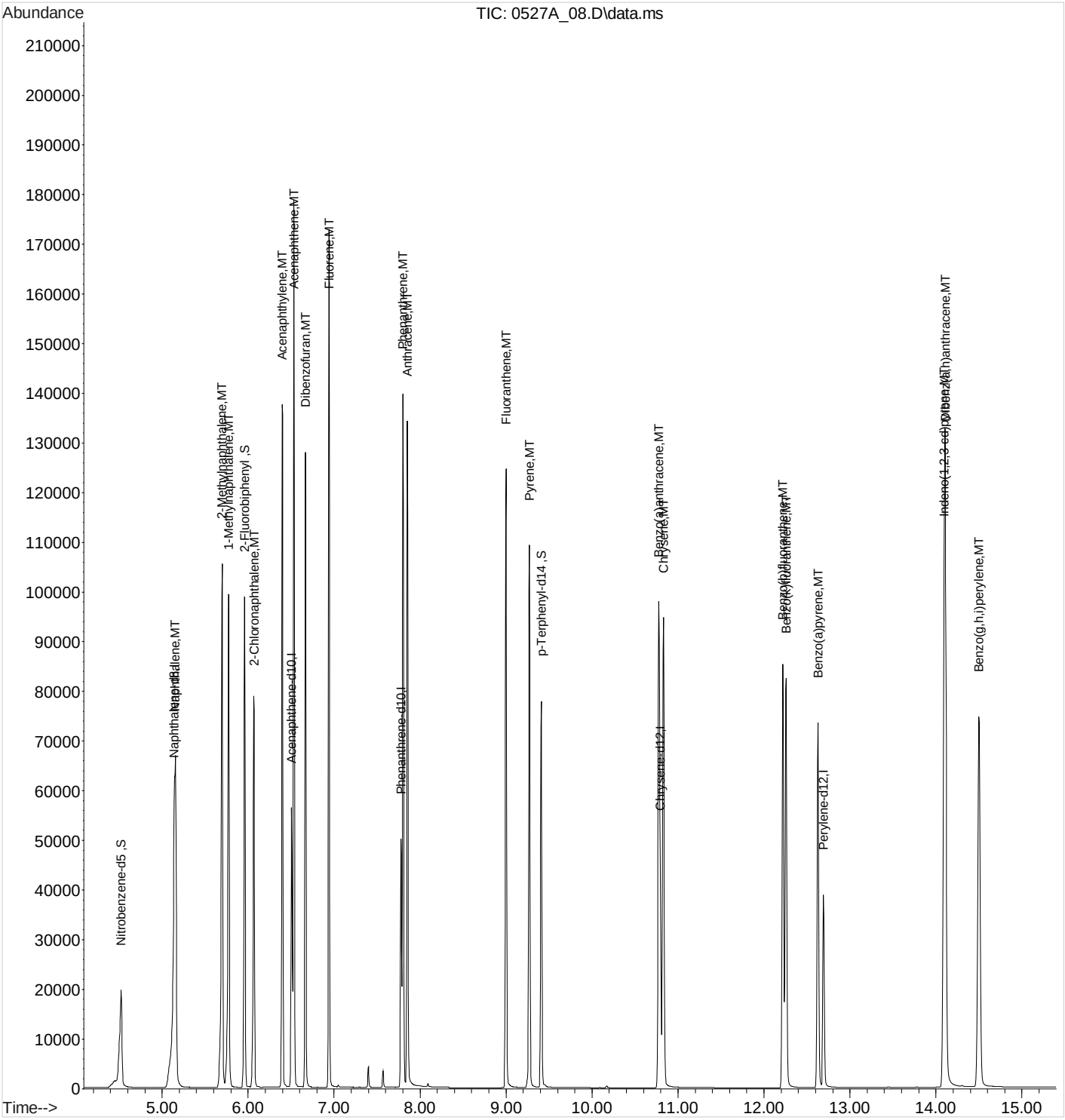
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8	5.139	136	48343	40.0000000	ppb	0.00
6) Acenaphthene-d10	6.507	164	25078	40.0000000	ppb	0.00
13) Phenanthrene-d10	7.778	188	39856	40.0000000	ppb	0.00
17) Chrysene-d12	10.794	240	38404	40.0000000	ppb	0.00
22) Perylene-d12	12.693	264	39263	40.0000000	ppb	0.00
System Monitoring Compounds						
2) Nitrobenzene-d5	4.523	82	29277	85.7214877	ppb	0.00
Spiked Amount 2.000	Range 34 - 179		Recovery = 4286.07%#			
7) 2-Fluorobiphenyl	5.960	172	65584	78.3653579	ppb	0.00
Spiked Amount 2.000	Range 56 - 150		Recovery = 3918.27%#			
19) p-Terphenyl-d14	9.410	244	66595	77.2289143	ppb	0.00
Spiked Amount 2.000	Range 46 - 163		Recovery = 3861.45%#			
Target Compounds						Qvalue
3) Naphthalene	5.154	128	100226	74.8018711	ppb	100
4) 2-Methylnaphthalene	5.698	142	63708	77.6595514	ppb	97
5) 1-Methylnaphthalene	5.773	142	59119	77.5182482	ppb	98
8) 2-Chloronaphthalene	6.070	162	59877	78.6060066	ppb	96
9) Acenaphthylene	6.397	152	90865	86.1889349	ppb	99
10) Acenaphthene	6.533	153	59226	77.8255608	ppb	96
11) Dibenzofuran	6.669	168	77978	77.2978492	ppb	97
12) Fluorene	6.941	166	65362	79.9083695	ppb	96
14) Phenanthrene	7.801	178	87656	78.6547723	ppb	99
15) Anthracene	7.852	178	85905	87.6542139	ppb	99
16) Fluoranthene	9.000	202	87382	82.8930815	ppb	99
18) Pyrene	9.272	202	80132	78.9683655	ppb	99
20) Benzo(a)anthracene	10.776	228	78057	82.0038873	ppb	99
21) Chrysene	10.831	228	78841	76.4731083	ppb	99
23) Benzo(b)fluoranthene	12.219	252	83039	79.6309224	ppb	100
24) Benzo(k)fluoranthene	12.257	252	85641	81.2030306	ppb	100
25) Benzo(a)pyrene	12.628	252	72723	84.7975981	ppb	100
26) Indeno(1,2,3-cd)pyrene	14.092	276	102597	82.2575670	ppb	99
27) Dibenz(a,h)anthracene	14.109	278	86133	82.1113618	ppb	98
28) Benzo(g,h,i)perylene	14.499	276	86840	78.2122559	ppb	94

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\052715A\
Data File : 0527A 08.D
Acq On : 27 May 2015 1:08 pm
Operator : 280
Sample : STD SIMLVI 80 PPB 15D23587
Misc : SIM CALIBRATION
ALS Vial : 16 Sample Multiplier: 1
InstName : BNAMS14

Quant Time: May 27 13:49:07 2015
Quant Method : C:\msdchem\1\METHODS\SS14E27O.M
Quant Title : 8270 BNA
QLast Update : Wed May 27 13:05:43 2015
Response via : Initial Calibration
DataAcq Meth:SIMMN.M



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\052715A\
Data File : 0527A 09.D
Acq On : 27 May 2015 1:29 pm
Operator : 280
Sample : STD SIMLVI 200 PPB 15D23587
Misc : SIM CALIBRATION
ALS Vial : 17 Sample Multiplier: 1
InstName : BNAMS14

Quant Time: May 27 13:49:22 2015
Quant Method : C:\msdchem\1\METHODS\SS14E27O.M
Quant Title : 8270 BNA
QLast Update : Wed May 27 13:49:19 2015
Response via : Initial Calibration
DataAcq Meth:SIMMN.M

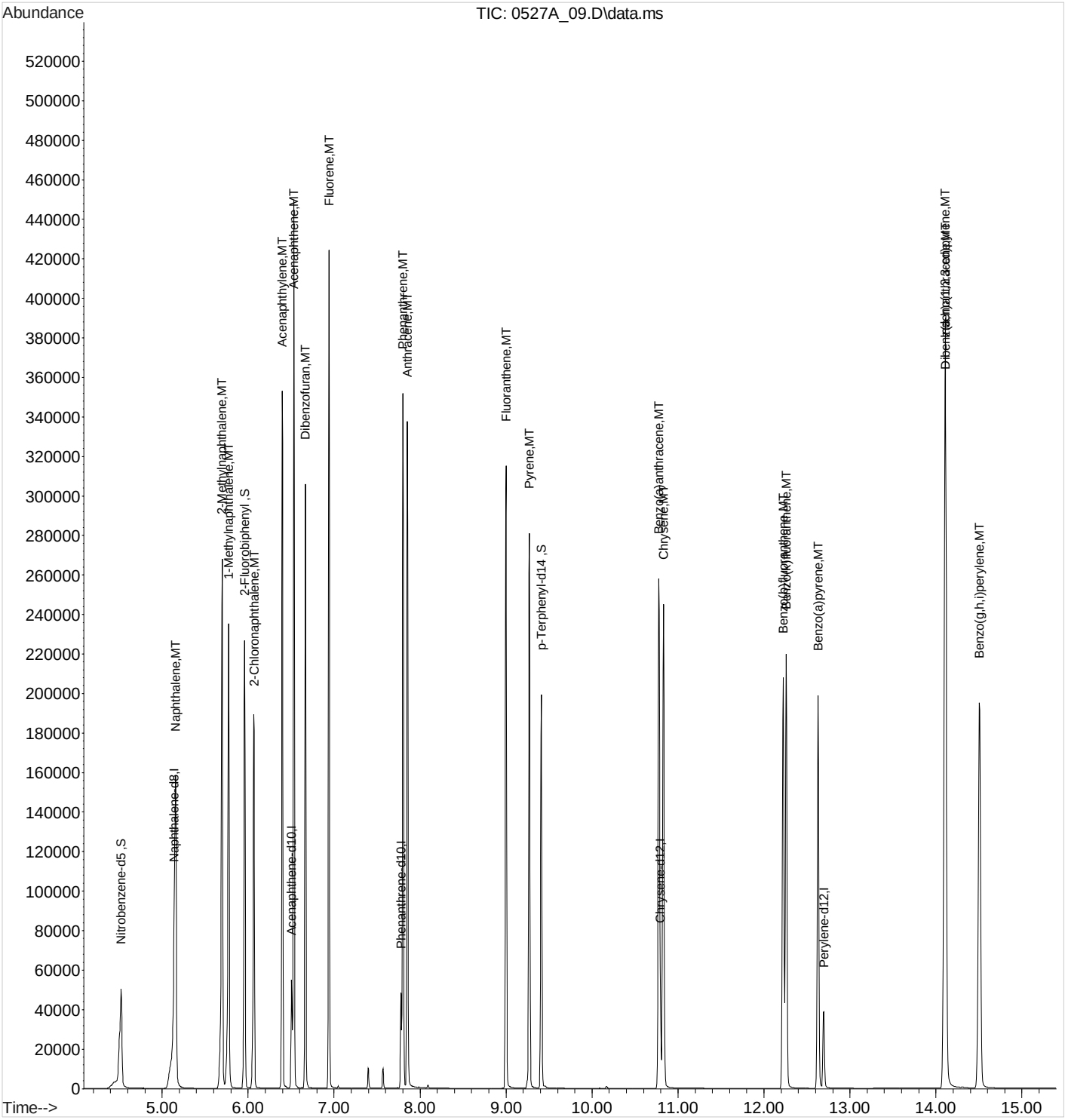
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8	5.139	136	47847	40.0000000	ppb	0.00
6) Acenaphthene-d10	6.507	164	24184	40.0000000	ppb	0.00
13) Phenanthrene-d10	7.778	188	38728	40.0000000	ppb	0.00
17) Chrysene-d12	10.794	240	38809	40.0000000	ppb	0.00
22) Perylene-d12	12.698	264	39994	40.0000000	ppb	0.00
System Monitoring Compounds						
2) Nitrobenzene-d5	4.523	82	74175	216.8470347	ppb	0.00
Spiked Amount 2.000	Range 34 - 179		Recovery = 10842.35%#			
7) 2-Fluorobiphenyl	5.960	172	158382	196.9147839	ppb	0.00
Spiked Amount 2.000	Range 56 - 150		Recovery = 9845.74%#			
19) p-Terphenyl-d14	9.410	244	166922	192.6683521	ppb	0.00
Spiked Amount 2.000	Range 46 - 163		Recovery = 9633.42%#			
Target Compounds						Qvalue
3) Naphthalene	5.157	128	244314	186.2464991	ppb	100
4) 2-Methylnaphthalene	5.698	142	156641	193.8688387	ppb	98
5) 1-Methylnaphthalene	5.776	142	143874	191.5972794	ppb	98
8) 2-Chloronaphthalene	6.070	162	144828	197.7316045	ppb	98
9) Acenaphthylene	6.397	152	229671	223.0293275	ppb	99
10) Acenaphthene	6.533	153	144198	197.3811688	ppb	97
11) Dibenzofuran	6.669	168	189239	195.6241583	ppb	94
12) Fluorene	6.941	166	159674	202.4644691	ppb	98
14) Phenanthrene	7.801	178	216683	200.6576648	ppb	100
15) Anthracene	7.852	178	216753	224.0357733	ppb	99
16) Fluoranthene	9.000	202	219455	212.9612949	ppb	99
18) Pyrene	9.272	202	201118	196.5515730	ppb	99
20) Benzo(a)anthracene	10.776	228	202906	210.0642650	ppb	98
21) Chrysene	10.831	228	195350	188.8934443	ppb	99
23) Benzo(b)fluoranthene	12.225	252	219517	206.8190291	ppb	97
24) Benzo(k)fluoranthene	12.257	252	209283	194.3237943	ppb	99
25) Benzo(a)pyrene	12.628	252	190763	216.2097745	ppb	98
26) Indeno(1,2,3-cd)pyrene	14.103	276	265796	208.2286402	ppb	97
27) Dibenz(a,h)anthracene	14.114	278	223907	208.6334121	ppb	95
28) Benzo(g,h,i)perylene	14.505	276	221604	196.6716521	ppb	95

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\052715A\
Data File : 0527A 09.D
Acq On : 27 May 2015 1:29 pm
Operator : 280
Sample : STD SIMLVI 200 PPB 15D23587
Misc : SIM CALIBRATION
ALS Vial : 17 Sample Multiplier: 1
InstName : BNAMS14

Quant Time: May 27 13:49:22 2015
Quant Method : C:\msdchem\1\METHODS\SS14E27O.M
Quant Title : 8270 BNA
QLast Update : Wed May 27 13:49:19 2015
Response via : Initial Calibration
DataAcq Meth:SIMMN.M



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\052715A\
Data File : 0527A 10.D
Acq On : 27 May 2015 1:50 pm
Operator : 280
Sample : STD SIMLVI 1K PPB 15D23587
Misc : SIM CALIBRATION
ALS Vial : 18 Sample Multiplier: 1
InstName : BNAMS14

Quant Time: May 28 07:44:53 2015
Quant Method : C:\msdchem\1\METHODS\SS14E27O.M
Quant Title : 8270 BNA
QLast Update : Wed May 27 13:49:31 2015
Response via : Initial Calibration
DataAcq Meth:SIMMN.M

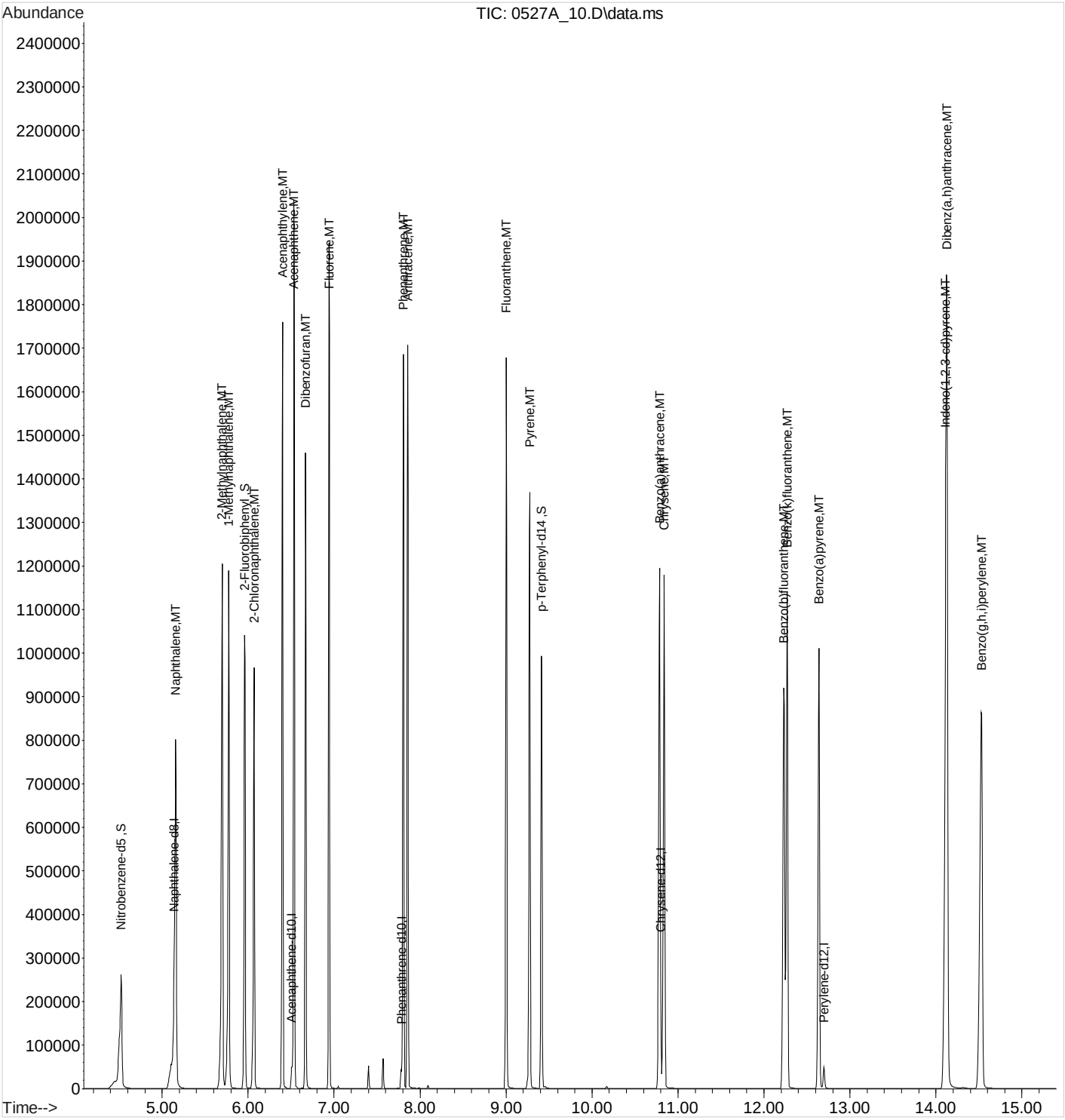
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Naphthalene-d8	5.138	136	46986	40.0000000 ppb	0.00
6) Acenaphthene-d10	6.506	164	22325	40.0000000 ppb	0.00
13) Phenanthrene-d10	7.782	188	36559	40.0000000 ppb	0.00
17) Chrysene-d12	10.799	240	42124	40.0000000 ppb	0.00
22) Perylene-d12	12.698	264	46163	40.0000000 ppb	0.00
System Monitoring Compounds					
2) Nitrobenzene-d5	4.523	82	366380	1059.1077754 ppb	0.00
Spiked Amount 2.000	Range 34 - 179		Recovery	= 52955.39%#	
7) 2-Fluorobiphenyl	5.960	172	738850	991.3305137 ppb	0.00
Spiked Amount 2.000	Range 56 - 150		Recovery	= 49566.53%#	
19) p-Terphenyl-d14	9.413	244	824567	876.6404499 ppb	0.00
Spiked Amount 2.000	Range 46 - 163		Recovery	= 43832.02%#	
Target Compounds					Qvalue
3) Naphthalene	5.157	128	1145470	920.9731438 ppb	99
4) 2-Methylnaphthalene	5.698	142	741906	939.9610328 ppb	98
5) 1-Methylnaphthalene	5.776	142	668674	908.4571782 ppb	96
8) 2-Chloronaphthalene	6.069	162	667596	985.2149700 ppb	95
9) Acenaphthylene	6.401	152	1115530	1154.7784091 ppb	99
10) Acenaphthene	6.533	153	667277	985.1798542 ppb	97
11) Dibenzofuran	6.668	168	860526	962.3532051 ppb	76
12) Fluorene	6.941	166	767544	1046.6290023 ppb	98
14) Phenanthrene	7.805	178	1051730	1036.6863291 ppb	99
15) Anthracene	7.856	178	1066359	1123.9086036 ppb	98
16) Fluoranthene	9.003	202	1100069	1103.4371417 ppb	99
18) Pyrene	9.275	202	997044	901.0754661 ppb	99
20) Benzo(a)anthracene	10.785	228	1036651	992.5220144 ppb	99
21) Chrysene	10.840	228	947030	842.7815566 ppb	98
23) Benzo(b)fluoranthene	12.230	252	1093087	844.9909830 ppb	100
24) Benzo(k)fluoranthene	12.268	252	1070611	881.6471490 ppb	99
25) Benzo(a)pyrene	12.639	252	983828	900.7082200 ppb	99
26) Indeno(1,2,3-cd)pyrene	14.114	276	1373028	919.3282572 ppb	97
27) Dibenz(a,h)anthracene	14.130	278	1158726	923.8116488 ppb	96
28) Benzo(g,h,i)perylene	14.532	276	1099450	801.6274190 ppb	96

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\052715A\
Data File : 0527A 10.D
Acq On : 27 May 2015 1:50 pm
Operator : 280
Sample : STD SIMLVI 1K PPB 15D23587
Misc : SIM CALIBRATION
ALS Vial : 18 Sample Multiplier: 1
InstName : BNAMS14

Quant Time: May 28 07:44:53 2015
Quant Method : C:\msdchem\1\METHODS\SS14E27O.M
Quant Title : 8270 BNA
QLast Update : Wed May 27 13:49:31 2015
Response via : Initial Calibration
DataAcq Meth:SIMMN.M



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\052715A\
Data File : 0527A 11.D
Acq On : 27 May 2015 2:11 pm
Operator : 280
Sample : STD SIMLVI 2K PPB 15D23587
Misc : SIM CALIBRATION
ALS Vial : 19 Sample Multiplier: 1
InstName : BNAMS14

Quant Time: May 28 07:45:20 2015
Quant Method : C:\msdchem\1\METHODS\SS14E27O.M
Quant Title : 8270 BNA
QLast Update : Thu May 28 07:45:06 2015
Response via : Initial Calibration
DataAcq Meth:SIMMN.M

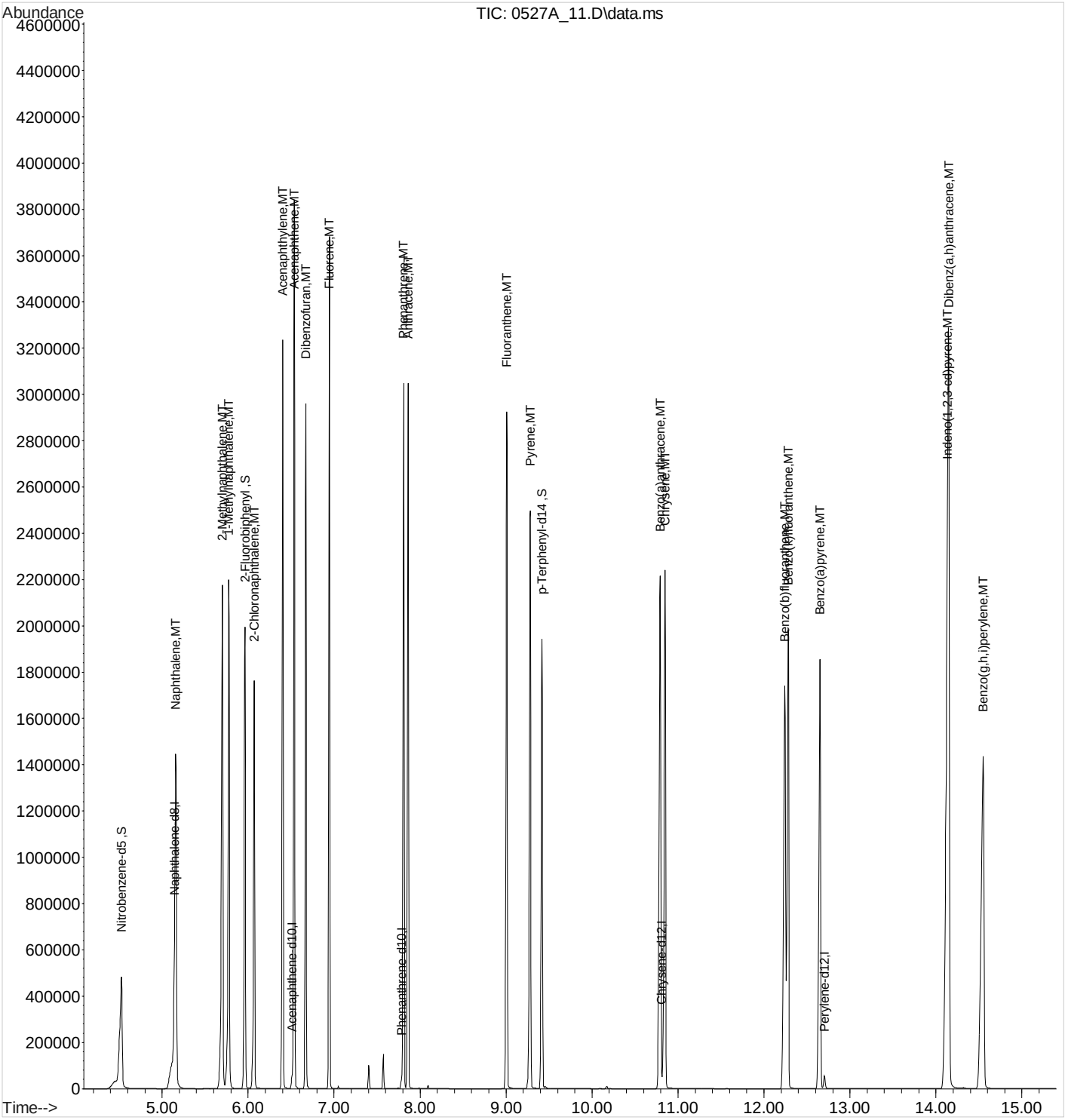
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Naphthalene-d8	5.142	136	44621	40.0000000 ppb	0.00
6) Acenaphthene-d10	6.510	164	20472	40.0000000 ppb	0.00
13) Phenanthrene-d10	7.782	188	34109	40.0000000 ppb	0.00
17) Chrysene-d12	10.808	240	43835	40.0000000 ppb	0.01
22) Perylene-d12	12.703	264	50193	40.0000000 ppb	0.00
System Monitoring Compounds					
2) Nitrobenzene-d5	4.527	82	714812m	2113.3932948 ppb	0.00
Spiked Amount 2.000	Range 34 - 179		Recovery	= 105669.66%#	
7) 2-Fluorobiphenyl	5.964	172	1404617	2064.1343381 ppb	0.00
Spiked Amount 2.000	Range 56 - 150		Recovery	= 103206.72%#	
19) p-Terphenyl-d14	9.417	244	1668992	1817.2192423 ppb	0.00
Spiked Amount 2.000	Range 46 - 163		Recovery	= 90860.96%#	
Target Compounds					Qvalue
3) Naphthalene	5.157	128	2198765	1938.1167709 ppb	99
4) 2-Methylnaphthalene	5.702	142	1429590	1966.2495331 ppb	97
5) 1-Methylnaphthalene	5.776	142	1278984	1917.4846093 ppb	97
8) 2-Chloronaphthalene	6.073	162	1273274	2064.3949887 ppb	87
9) Acenaphthylene	6.405	152	2136817	2238.9443868 ppb	99
10) Acenaphthene	6.537	153	1267599	2056.1395448 ppb	95
11) Dibenzofuran	6.672	168	1623321	2017.7108002 ppb	88
12) Fluorene	6.945	166	1455334	2114.8239774 ppb	94
14) Phenanthrene	7.809	178	2065105	2142.4782210 ppb	98
15) Anthracene	7.860	178	2073045	2205.2395815 ppb	99
16) Fluoranthene	9.007	202	2166656	2214.8453839 ppb	98
18) Pyrene	9.283	202	1957157	1788.1820784 ppb	98
20) Benzo(a)anthracene	10.794	228	2083318	1923.9713649 ppb	100
21) Chrysene	10.849	228	1833476	1701.7323211 ppb	100
23) Benzo(b)fluoranthene	12.241	252	2272437	1751.3615689 ppb	99
24) Benzo(k)fluoranthene	12.278	252	2088011	1680.8871924 ppb	99
25) Benzo(a)pyrene	12.649	252	1987551	1760.9565588 ppb	99
26) Indeno(1,2,3-cd)pyrene	14.136	276	2603865	1670.8647176 ppb	93
27) Dibenz(a,h)anthracene	14.152	278	2249344	1714.6555011 ppb	92
28) Benzo(g,h,i)perylene	14.548	276	2037840	1516.9911461 ppb	98

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\052715A\
Data File : 0527A 11.D
Acq On : 27 May 2015 2:11 pm
Operator : 280
Sample : STD SIMLVI 2K PPB 15D23587
Misc : SIM CALIBRATION
ALS Vial : 19 Sample Multiplier: 1
InstName : BNAMS14

Quant Time: May 28 07:45:20 2015
Quant Method : C:\msdchem\1\METHODS\SS14E27O.M
Quant Title : 8270 BNA
QLast Update : Thu May 28 07:45:06 2015
Response via : Initial Calibration
DataAcq Meth:SIMMN.M



SS14E27O.M Thu May 28 07:45:30 2015 Page: 2

Quantitation Report (Qedit)

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Data Path : C:\msdchem\1\DATA\052715A\
Data File : 0527A 11.D
Acq On    : 27 May 2015   2:11 pm
Operator  : 280
Sample    : STD SIMLVI 2K PPB 15D23587
Misc      : SIM CALIBRATION
ALS Vial  : 19   Sample Multiplier: 1
InstName  : BNAMS14

Quant Time: May 28 07:45:09 2015
Quant Method : C:\msdchem\1\METHODS\SS14E27O.M
Quant Title  : 8270 BNA
QLast Update : Thu May 28 07:45:06 2015
Response via : Initial Calibration
DataAcq Meth:SIMMN.M
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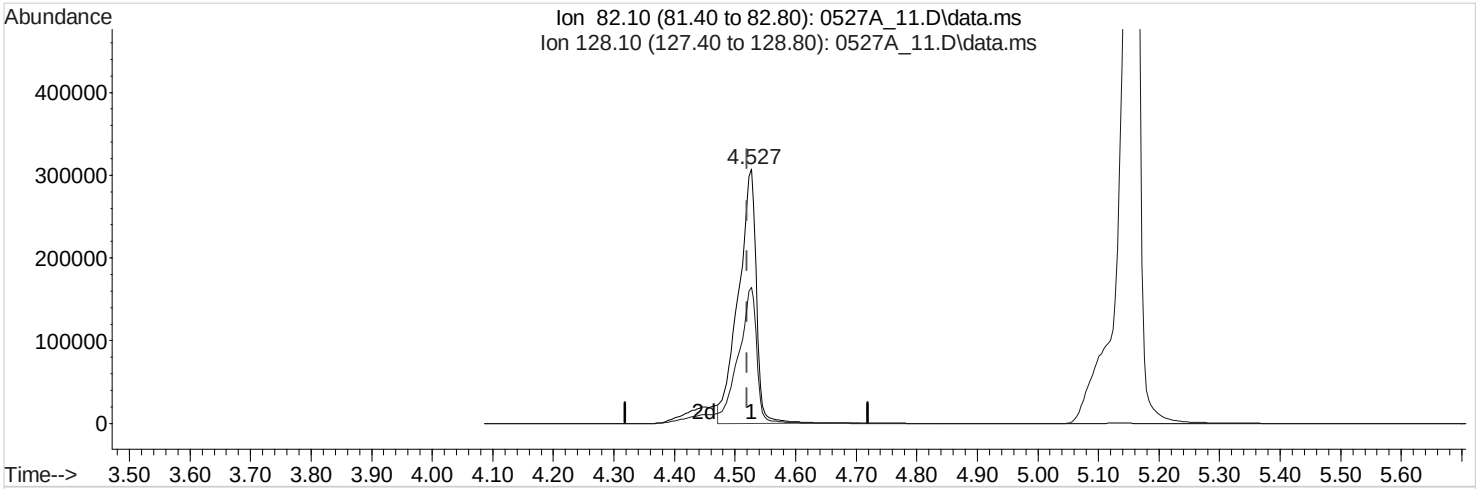
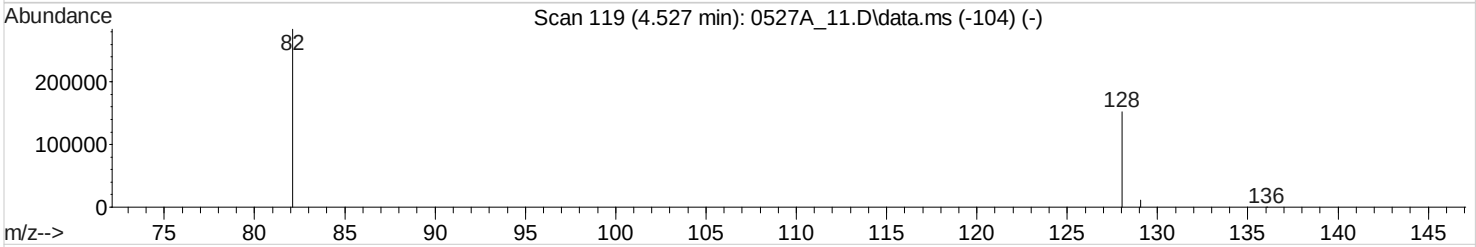
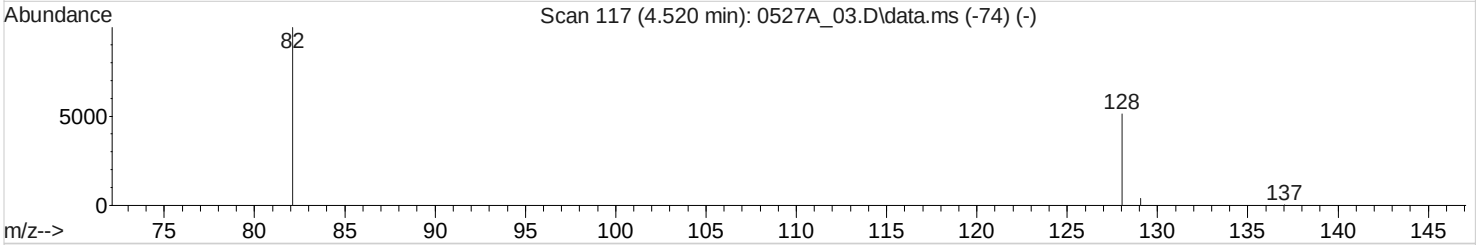






TIC: 0527A_11.D\data.ms

(2) Nitrobenzene-d5 (S)

4.527min (+0.007) 1884.6344332 ppb

Qvalue = 88

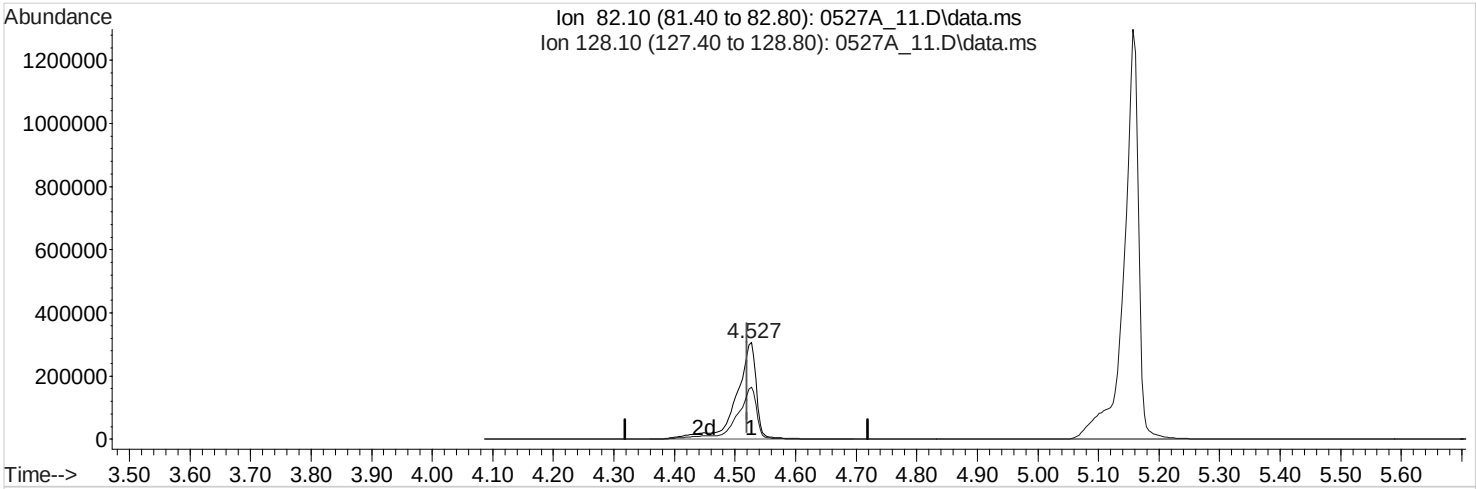
response 637439

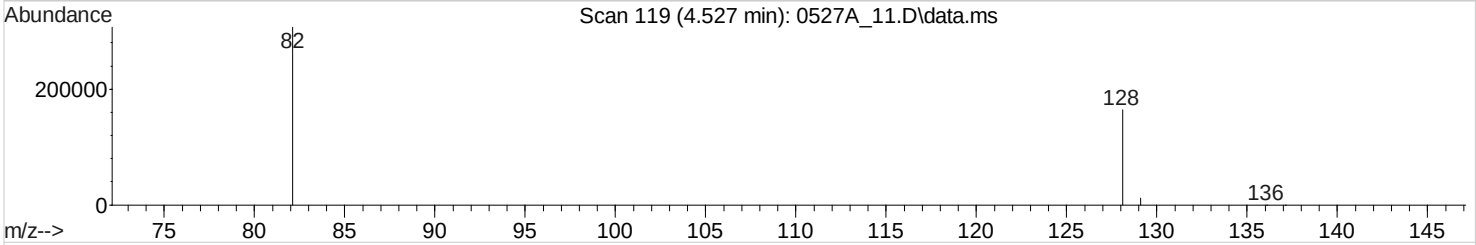
Ion	Exp%	Act%
82.10	100	100
128.10	45.50	53.49
0.00	0.00	0.00
0.00	0.00	0.00

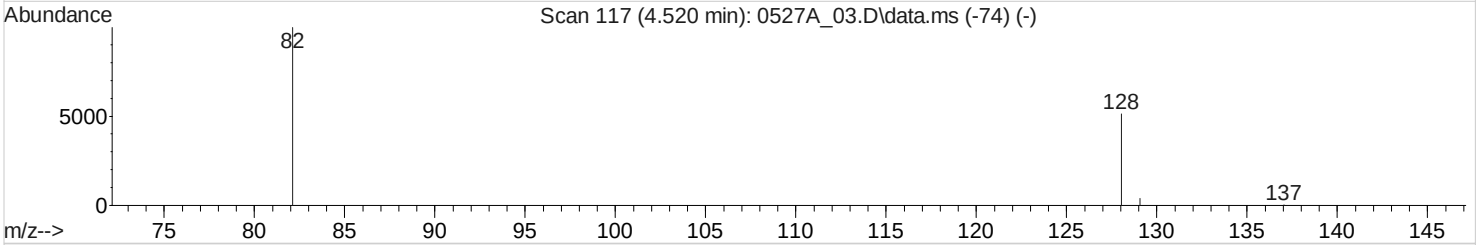
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\052715A\
Data File : 0527A 11.D
Acq On : 27 May 2015 2:11 pm
Operator : 280
Sample : STD SIMLVI 2K PPB 15D23587
Misc : SIM CALIBRATION
ALS Vial : 19 Sample Multiplier: 1
InstName : BNAMS14

Quant Time: May 28 07:45:09 2015
Quant Method : C:\msdchem\1\METHODS\SS14E27O.M
Quant Title : 8270 BNA
QLast Update : Thu May 28 07:45:06 2015
Response via : Initial Calibration
DataAcq Meth:SIMMN.M







TIC: 0527A_11.D\data.ms

(2) Nitrobenzene-d5 (S)

4.527min (+0.007) 2113.3932948 ppb m

response 714812

Ion	Exp%	Act%
82.10	100	100
128.10	45.50	53.50
0.00	0.00	0.00
0.00	0.00	0.00

CHAIN-OF-CUSTODY RECORD

URS

8181 East Tufts Avenue
Denver , CO 80237
Phone: (303) 694-2770
Fax: (303) 694-3946

LAB: ESC

PROJECT NAME	PROJECT NUMBER
Holloman AFB	60425210 23446543.0056AB
Project Manager: Sheri Fling	**Sample Manager:** Jon Mallonee
Project Mgr Phone: (303) 332-5297	**Sample Mgr Phone:** (301) 512-3395

E094

TESTS

CONTAINER TYPE AND PRESERVATIVE

Sample ID	Date	Time	Matrix	Total Containers	GRO	DRO/ORO	VOCs 8260B	PAHs by SIM	SVOCs	Tot Met/6010B/6020/7470A	Dis Met/6010B/6020/7470A	TDS	Remarks
					2 X 40ml V Amb, HCl, <6C	3 X 40ml V Amb, HCl, <6C	2 X 40ml V Amb, HCl, <6C	2 X 100ml G Amb, <6C	2 X 100ml G Amb, <6C	1 X 500ml P, HNO3, <6C	1 X 500ml P, HNO3, <6C	1 X 250ml P, <6C	
H-TU506-MW05-NT03	6/19/15	0810	GW	3				X				X	L772219-01

RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY
Signature [signature]	Signature	Signature	Signature [signature]
Printed Name Klinton Fuller	Printed Name	Printed Name	Printed Name
Firm Trinity	Firm	Firm	Firm
Date/Time 6/19/15 09:30	Date/Time	Date/Time	Date/Time 6/19/15 09:00

Special Instructions:
1. All soil samples require percent moisture.
2. The circled analyses represent those analyses for which bottles are contained in this cooler.
3. The total number of containers represents all containers for a given sample ID regardless of the cooler in which they are contained.
4. Level IV package required.
5. VOCs/SVOCs/PAHs analyte lists are included in the site-specific QAPPs
6. Metals analyte list:
   6010B- Aluminum, Barium, Beryllium, Copper , Manganese, Vanadium, Zinc;
   6020 - Antimony, Arsenic, Cadmium, Chromium, Cobalt , Lead, Nickel, Selenium, Silver, Thallium;
   7470A - Mercury
7. Dissolved metals are field filtered

6436713010 14 3

Container Key: P = Plastic Amb = Amber V = Vial G = Glass

6.43
3.1

ESC Lab Sciences

Login Confirmation Report

June 21, 2015 - 00:02

YOUR LAB OF CHOICE

Account: URSTAZ - URS Corporation - Tucson AZ - 1088308

Login #	**L772219**	Receive Date: 06/19/2015	TSR: Pam Langford
Template #		Entered: 06/19/2015	By: Andy Vann
Report to:	Sheri Fling	Lab Project Number: URSTAZ-DOD HOLLOMAN	**Report MDL: Y**
	8181 E. Tufts Avenue	Client Project # 60425210 23446543.00	**HDC: N**
	Denver, CO 80237	Project Description:	PO #
		Collected By: Jon Mallonee	PO Req: Y
Phone:	(303) 740-3909 FAX:	Reg. State: AZ	Terms: 90
Email:	sheri.fling@urs.com; stan.gladych@urs.com,bmock@esclabsciences.com,tmellette@esclabsciences.com		Quote #

Proj/Acct Comments: **PO #' 312575 Metals list: ICP -Al ICP/MS-Sb, As, Ba, Be, Cd, Cr, Co, Cu, Pb, Mn, Ni, Se, Ag, Tl, V, Zn**

Matrix	Test	Sample ID	Collection Date	Design ID	Method	Unit Price
L772219-01		**H-TU506-MW05-NT03**	**06/18/2015 08:10**	**Site:**	**Est. Due Date*: 06/26/2015 - R5**	
			Sample Description: Holloman AFB			
			Sample Comments: EDD/QC4/DOD			
GW	8270PAHSIM	PAHs by SIM		PPBDOD	8270 C-SIM	$ 60.00
GW	EDD	Electronic Data Deliverable				$ 0.00
GW	QC4	QC Package				$ 0.00
GW	TDS	TDS		PPBDOD	2540 C-2011	$ 10.00
Misc	DISPOSAL	Sample Disposal Charge				$ 0.00
Misc	ENERGY	Energy Surcharge				$ 0.00
Misc	HARDCOPY	Hardcopy Report Charge				$ 0.00
Misc	SHIPPING	Inbound Transport Charge				$ 0.00

Information Only - Not An Invoice - Do Not Pay! Total: $ 70.00

*** Due Date listed is an estimate based on average workloads. Please communicate required dates to your TSR.**