



09/18/14

Technical Report for

Langan Engineering & Environmental

Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

365 Bond Street, 100287501

Accutest Job Number: JB75844

Sampling Date: 09/04/14

Report to:

Langan Engineering & Environmental

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ATTN: Lindsay Deckard

Total number of pages in report: **847**



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

A handwritten signature in black ink that reads 'Nancy Cole'.

Nancy Cole
Laboratory Director

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

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Test results relate only to samples analyzed.

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Sample Summary

Langan Engineering & Environmental

Job No: JB75844

Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

Project No: 365 Bond Street, 100287501

Sample Number	Collected			Received	Matrix		Client Sample ID
	Date	Time	By		Code	Type	
JB75844-1	09/04/14	11:10	CM	09/05/14	SO	Soil	470-UST-7-PE-1
JB75844-2	09/04/14	11:15	CM	09/05/14	SO	Soil	471-UST-7-PE-2
JB75844-3	09/04/14	11:20	CM	09/05/14	SO	Soil	472-UST-7-PE-3
JB75844-4	09/04/14	11:25	CM	09/05/14	SO	Soil	473-UST-7-PE-4
JB75844-5	09/04/14	11:30	CM	09/05/14	SO	Soil	474-UST-7-PE-5
JB75844-6	09/04/14	11:45	CM	09/05/14	AQ	Field Blank Soil	475-FB-24
JB75844-7	09/04/14	11:45	CM	09/05/14	AQ	Trip Blank Soil	476-TB-21

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

CASE NARRATIVE / CONFORMANCE SUMMARY

Client: Langan Engineering & Environmental

Job No JB75844

Site: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

Report Date 9/15/2014 9:04:35 AM

On 09/05/2014, 5 Sample(s), 1 Trip Blank(s) and 1 Field Blank(s) were received at Accutest Laboratories at a temperature of 5 C. Samples were intact and chemically preserved, unless noted below. An Accutest Job Number of JB75844 was assigned to the project. Laboratory sample ID, client sample ID and dates of sample collection are detailed in the report's Results Summary Section.

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

Volatiles by GCMS By Method SW846 8260C

Matrix: AQ

Batch ID: V4D2303

- All samples were analyzed within the recommended method holding time.
- Sample(s) JB75421-4MS, JB75421-4MSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.

Matrix: SO

Batch ID: V3C5123

- All samples were analyzed within the recommended method holding time.
- Sample(s) JB75844-2MS, JB75844-2MSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.
- JB75844-2: Dilution required due to matrix interference.
- JB75844-1: Dilution required due to matrix interference.
- JB75844-3: Dilution required due to matrix interference.

Matrix: SO

Batch ID: V3C5124

- All samples were analyzed within the recommended method holding time.
- Sample(s) JB75788-8MS, JB75788-8MSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.

Extractables by GCMS By Method SW846 8270D

Matrix: AQ

Batch ID: OP77878

- All samples were extracted within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JB75564-2MS, JB75564-2MSD were used as the QC samples indicated.

Matrix: SO

Batch ID: OP77866

- All samples were extracted within the recommended method holding time.
- Sample(s) JB75844-1MS, JB75844-1MSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.
- Matrix Spike Recovery(s) for Naphthalene, Phenanthrene are outside control limits. Outside control limits due to matrix interference and dilution.
- Matrix Spike Duplicate Recovery(s) for Naphthalene, Pyrene, Acenaphthene, Acenaphthylene, Anthracene, Fluorene, Phenanthrene are outside control limits. Outside control limits due to matrix interference and dilution.
- RPD(s) for MS/MSD for Acenaphthene, Acenaphthylene, Anthracene, Fluorene, Phenanthrene are outside control limits. Outside control limits due to matrix interference and dilution.
- JB75844-4: Elevated detection limit due to high final volume of viscous extract.
- JB75844-3: Elevated detection limit due to high final volume of viscous extract.
- JB75844-1: Elevated detection limit due to high final volume of viscous extract.
- JB75844-2: Elevated detection limit due to high final volume of viscous extract.
- OP77866-MS: Elevated detection limit due to high final volume of viscous extract.
- OP77866-MSD: Elevated detection limit due to high final volume of viscous extract.
- OP77866-MSD for Nitrobenzene-d5: Outside control limits due to matrix interference and dilution.
- JB75844-3 for Nitrobenzene-d5: Outside control limits due to dilution and matrix interference.

Wet Chemistry By Method SM2540 G-97

Matrix: SO

Batch ID: GN11326

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

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

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

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

Summary of Hits

Job Number: JB75844

Account: Langan Engineering & Environmental

Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

Collected: 09/04/14



Lab Sample ID	Client Sample ID	Result/ Qual	RL	MDL	Units	Method

JB75844-1 470-UST-7-PE-1

Benzene ^a	0.0162 J	0.067	0.012	mg/kg	SW846 8260C
n-Butylbenzene ^a	1.76	0.33	0.0074	mg/kg	SW846 8260C
sec-Butylbenzene ^a	1.23	0.33	0.010	mg/kg	SW846 8260C
tert-Butylbenzene ^a	0.335	0.33	0.0091	mg/kg	SW846 8260C
Ethylbenzene ^a	0.0470 J	0.067	0.0071	mg/kg	SW846 8260C
Isopropylbenzene ^a	0.604	0.33	0.010	mg/kg	SW846 8260C
p-Isopropyltoluene ^a	0.0296 J	0.33	0.010	mg/kg	SW846 8260C
Naphthalene ^a	0.236 J	0.33	0.0095	mg/kg	SW846 8260C
n-Propylbenzene ^a	1.23	0.33	0.0094	mg/kg	SW846 8260C
Toluene ^a	0.0148 J	0.067	0.010	mg/kg	SW846 8260C
1,2,4-Trimethylbenzene ^a	0.0418 J	0.33	0.0093	mg/kg	SW846 8260C
m,p-Xylene ^a	0.0479 J	0.067	0.015	mg/kg	SW846 8260C
o-Xylene ^a	0.0680	0.067	0.0094	mg/kg	SW846 8260C
Xylene (total) ^a	0.116	0.067	0.0094	mg/kg	SW846 8260C
Acenaphthene ^b	1.01	0.18	0.053	mg/kg	SW846 8270D
Anthracene ^b	0.609	0.18	0.064	mg/kg	SW846 8270D
Benzo(a)anthracene ^b	0.572	0.18	0.060	mg/kg	SW846 8270D
Benzo(a)pyrene ^b	0.505	0.18	0.056	mg/kg	SW846 8270D
Benzo(b)fluoranthene ^b	0.563	0.18	0.061	mg/kg	SW846 8270D
Benzo(g,h,i)perylene ^b	0.519	0.18	0.068	mg/kg	SW846 8270D
Benzo(k)fluoranthene ^b	0.198	0.18	0.069	mg/kg	SW846 8270D
Chrysene ^b	0.568	0.18	0.062	mg/kg	SW846 8270D
Dibenzo(a,h)anthracene ^b	0.115 J	0.18	0.062	mg/kg	SW846 8270D
Fluoranthene ^b	1.02	0.18	0.081	mg/kg	SW846 8270D
Fluorene ^b	1.53	0.18	0.060	mg/kg	SW846 8270D
Indeno(1,2,3-cd)pyrene ^b	0.395	0.18	0.064	mg/kg	SW846 8270D
Phenanthrene ^b	2.84	0.18	0.083	mg/kg	SW846 8270D
Pyrene ^b	1.42	0.18	0.070	mg/kg	SW846 8270D

JB75844-2 471-UST-7-PE-2

Benzene ^a	0.0134 J	0.060	0.010	mg/kg	SW846 8260C
n-Butylbenzene ^a	0.251 J	0.30	0.0066	mg/kg	SW846 8260C
sec-Butylbenzene ^a	0.210 J	0.30	0.0093	mg/kg	SW846 8260C
tert-Butylbenzene ^a	0.148 J	0.30	0.0081	mg/kg	SW846 8260C
Ethylbenzene ^a	0.0254 J	0.060	0.0063	mg/kg	SW846 8260C
Isopropylbenzene ^a	0.0358 J	0.30	0.0091	mg/kg	SW846 8260C
p-Isopropyltoluene ^a	0.0290 J	0.30	0.0092	mg/kg	SW846 8260C
Naphthalene ^a	0.185 J	0.30	0.0085	mg/kg	SW846 8260C
n-Propylbenzene ^a	0.0918 J	0.30	0.0084	mg/kg	SW846 8260C
Toluene ^a	0.0194 J	0.060	0.0089	mg/kg	SW846 8260C
1,2,4-Trimethylbenzene ^a	0.0573 J	0.30	0.0083	mg/kg	SW846 8260C
1,3,5-Trimethylbenzene ^a	0.0237 J	0.30	0.021	mg/kg	SW846 8260C

Summary of Hits

Job Number: JB75844

Account: Langan Engineering & Environmental

Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

Collected: 09/04/14



Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
m,p-Xylene ^a		0.0812	0.060	0.014	mg/kg	SW846 8260C
o-Xylene ^a		0.0324 J	0.060	0.0084	mg/kg	SW846 8260C
Xylene (total) ^a		0.114	0.060	0.0084	mg/kg	SW846 8260C
Acenaphthene ^b		1.35	0.19	0.054	mg/kg	SW846 8270D
Anthracene ^b		1.15	0.19	0.065	mg/kg	SW846 8270D
Benzo(a)anthracene ^b		1.32	0.19	0.061	mg/kg	SW846 8270D
Benzo(a)pyrene ^b		1.34	0.19	0.057	mg/kg	SW846 8270D
Benzo(b)fluoranthene ^b		1.25	0.19	0.062	mg/kg	SW846 8270D
Benzo(g,h,i)perylene ^b		1.18	0.19	0.070	mg/kg	SW846 8270D
Benzo(k)fluoranthene ^b		0.337	0.19	0.070	mg/kg	SW846 8270D
Chrysene ^b		1.44	0.19	0.063	mg/kg	SW846 8270D
Dibenzo(a,h)anthracene ^b		0.258	0.19	0.064	mg/kg	SW846 8270D
Fluoranthene ^b		2.47	0.19	0.083	mg/kg	SW846 8270D
Fluorene ^b		2.30	0.19	0.061	mg/kg	SW846 8270D
Indeno(1,2,3-cd)pyrene ^b		0.809	0.19	0.065	mg/kg	SW846 8270D
Phenanthrene ^b		4.15	0.19	0.085	mg/kg	SW846 8270D
Pyrene ^b		3.26	0.19	0.072	mg/kg	SW846 8270D

JB75844-3 472-UST-7-PE-3

Benzene ^a	0.0538 J	0.074	0.013	mg/kg	SW846 8260C
n-Butylbenzene ^a	2.25	0.37	0.0082	mg/kg	SW846 8260C
sec-Butylbenzene ^a	1.55	0.37	0.012	mg/kg	SW846 8260C
tert-Butylbenzene ^a	0.379	0.37	0.010	mg/kg	SW846 8260C
Ethylbenzene ^a	0.0506 J	0.074	0.0079	mg/kg	SW846 8260C
Isopropylbenzene ^a	0.672	0.37	0.011	mg/kg	SW846 8260C
p-Isopropyltoluene ^a	0.0432 J	0.37	0.011	mg/kg	SW846 8260C
Naphthalene ^a	0.413	0.37	0.011	mg/kg	SW846 8260C
n-Propylbenzene ^a	1.45	0.37	0.010	mg/kg	SW846 8260C
Toluene ^a	0.0339 J	0.074	0.011	mg/kg	SW846 8260C
1,2,4-Trimethylbenzene ^a	0.137 J	0.37	0.010	mg/kg	SW846 8260C
m,p-Xylene ^a	0.191	0.074	0.017	mg/kg	SW846 8260C
o-Xylene ^a	0.0669 J	0.074	0.010	mg/kg	SW846 8260C
Xylene (total) ^a	0.258	0.074	0.010	mg/kg	SW846 8260C
Acenaphthene ^b	9.04	0.19	0.054	mg/kg	SW846 8270D
Anthracene ^b	6.43	0.19	0.065	mg/kg	SW846 8270D
Benzo(a)anthracene ^b	1.61	0.19	0.061	mg/kg	SW846 8270D
Benzo(a)pyrene ^b	1.26	0.19	0.057	mg/kg	SW846 8270D
Benzo(b)fluoranthene ^b	1.24	0.19	0.062	mg/kg	SW846 8270D
Benzo(g,h,i)perylene ^b	1.01	0.19	0.069	mg/kg	SW846 8270D
Benzo(k)fluoranthene ^b	0.401	0.19	0.070	mg/kg	SW846 8270D
Chrysene ^b	1.86	0.19	0.063	mg/kg	SW846 8270D
Dibenzo(a,h)anthracene ^b	0.235	0.19	0.064	mg/kg	SW846 8270D
Fluoranthene ^b	4.05	0.19	0.082	mg/kg	SW846 8270D
Fluorene ^b	16.3	0.19	0.061	mg/kg	SW846 8270D

Summary of Hits

Job Number: JB75844

Account: Langan Engineering & Environmental

Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

Collected: 09/04/14



Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method

Indeno(1,2,3-cd)pyrene ^b		0.688	0.19	0.065	mg/kg	SW846 8270D
Phenanthrene		41.7	0.93	0.42	mg/kg	SW846 8270D
Pyrene ^b		6.10	0.19	0.072	mg/kg	SW846 8270D

JB75844-4 473-UST-7-PE-4

sec-Butylbenzene	0.0041 J	0.0071	0.00022	mg/kg	SW846 8260C
tert-Butylbenzene	0.0036 J	0.0071	0.00019	mg/kg	SW846 8260C
Isopropylbenzene	0.00062 J	0.0071	0.00022	mg/kg	SW846 8260C
Naphthalene	0.0025 J	0.0071	0.00020	mg/kg	SW846 8260C
1,2,4-Trimethylbenzene	0.00058 J	0.0071	0.00020	mg/kg	SW846 8260C
Acenaphthene ^b	1.12	0.21	0.060	mg/kg	SW846 8270D
Anthracene ^b	0.933	0.21	0.072	mg/kg	SW846 8270D
Benzo(a)anthracene ^b	1.24	0.21	0.067	mg/kg	SW846 8270D
Benzo(a)pyrene ^b	1.44	0.21	0.063	mg/kg	SW846 8270D
Benzo(b)fluoranthene ^b	1.02	0.21	0.069	mg/kg	SW846 8270D
Benzo(g,h,i)perylene ^b	1.28	0.21	0.077	mg/kg	SW846 8270D
Benzo(k)fluoranthene ^b	0.340	0.21	0.078	mg/kg	SW846 8270D
Chrysene ^b	1.49	0.21	0.070	mg/kg	SW846 8270D
Dibenzo(a,h)anthracene ^b	0.333	0.21	0.071	mg/kg	SW846 8270D
Fluoranthene ^b	1.98	0.21	0.091	mg/kg	SW846 8270D
Fluorene ^b	1.89	0.21	0.068	mg/kg	SW846 8270D
Indeno(1,2,3-cd)pyrene ^b	0.697	0.21	0.072	mg/kg	SW846 8270D
Phenanthrene ^b	4.13	0.21	0.094	mg/kg	SW846 8270D
Pyrene ^b	2.66	0.21	0.079	mg/kg	SW846 8270D

JB75844-5 474-UST-7-PE-5

n-Butylbenzene	0.0157	0.0067	0.00015	mg/kg	SW846 8260C
sec-Butylbenzene	0.0117	0.0067	0.00021	mg/kg	SW846 8260C
tert-Butylbenzene	0.0067	0.0067	0.00018	mg/kg	SW846 8260C
Isopropylbenzene	0.0013 J	0.0067	0.00020	mg/kg	SW846 8260C
Naphthalene	0.0027 J	0.0067	0.00019	mg/kg	SW846 8260C
n-Propylbenzene	0.0016 J	0.0067	0.00019	mg/kg	SW846 8260C
o-Xylene	0.0013	0.0013	0.00019	mg/kg	SW846 8260C
Xylene (total)	0.0013	0.0013	0.00019	mg/kg	SW846 8260C
Acenaphthene	1.05	0.038	0.011	mg/kg	SW846 8270D
Anthracene	0.934	0.038	0.013	mg/kg	SW846 8270D
Benzo(a)anthracene	0.353	0.038	0.012	mg/kg	SW846 8270D
Benzo(a)pyrene	0.397	0.038	0.012	mg/kg	SW846 8270D
Benzo(b)fluoranthene	0.393	0.038	0.013	mg/kg	SW846 8270D
Benzo(g,h,i)perylene	0.355	0.038	0.014	mg/kg	SW846 8270D
Benzo(k)fluoranthene	0.145	0.038	0.014	mg/kg	SW846 8270D
Chrysene	0.386	0.038	0.013	mg/kg	SW846 8270D
Dibenzo(a,h)anthracene	0.0818	0.038	0.013	mg/kg	SW846 8270D

Summary of Hits

Job Number: JB75844

Account: Langan Engineering & Environmental

Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

Collected: 09/04/14



Lab Sample ID	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
Analyte						
Fluoranthene		0.833	0.038	0.017	mg/kg	SW846 8270D
Fluorene		2.14	0.038	0.012	mg/kg	SW846 8270D
Indeno(1,2,3-cd)pyrene		0.263	0.038	0.013	mg/kg	SW846 8270D
Phenanthrene		4.61	0.075	0.034	mg/kg	SW846 8270D
Pyrene		1.34	0.038	0.014	mg/kg	SW846 8270D

JB75844-6 **475-FB-24**

No hits reported in this sample.

JB75844-7 **476-TB-21**

No hits reported in this sample.

(a) Dilution required due to matrix interference.

(b) Elevated detection limit due to high final volume of viscous extract.

Sample Results

Report of Analysis

Accutest LabLink@815166 15:07 18-Sep-2014

Report of Analysis

Page 1 of 1

Client Sample ID:	470-UST-7-PE-1	Date Sampled:	09/04/14
Lab Sample ID:	JB75844-1	Date Received:	09/05/14
Matrix:	SO - Soil	Percent Solids:	85.6
Method:	SW846 8260C SW846 5035		
Project:	Carroll Gardens, 363-365 Bond Street, Brooklyn, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	3C113337.D	1	09/08/14	PS	09/06/14 09:00	n/a	V3C5123
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.0 g	5.0 ml	100 ul
Run #2			

VOA STARS List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	0.0162	0.067	0.012	mg/kg	J
104-51-8	n-Butylbenzene	1.76	0.33	0.0074	mg/kg	
135-98-8	sec-Butylbenzene	1.23	0.33	0.010	mg/kg	
98-06-6	tert-Butylbenzene	0.335	0.33	0.0091	mg/kg	
100-41-4	Ethylbenzene	0.0470	0.067	0.0071	mg/kg	J
98-82-8	Isopropylbenzene	0.604	0.33	0.010	mg/kg	
99-87-6	p-Isopropyltoluene	0.0296	0.33	0.010	mg/kg	J
1634-04-4	Methyl Tert Butyl Ether	ND	0.067	0.011	mg/kg	
91-20-3	Naphthalene	0.236	0.33	0.0095	mg/kg	J
103-65-1	n-Propylbenzene	1.23	0.33	0.0094	mg/kg	
108-88-3	Toluene	0.0148	0.067	0.010	mg/kg	J
95-63-6	1,2,4-Trimethylbenzene	0.0418	0.33	0.0093	mg/kg	J
108-67-8	1,3,5-Trimethylbenzene	ND	0.33	0.024	mg/kg	
	m,p-Xylene	0.0479	0.067	0.015	mg/kg	J
95-47-6	o-Xylene	0.0680	0.067	0.0094	mg/kg	
1330-20-7	Xylene (total)	0.116	0.067	0.0094	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	95%		59-130%
17060-07-0	1,2-Dichloroethane-D4	99%		65-123%
2037-26-5	Toluene-D8	110%		77-125%
460-00-4	4-Bromofluorobenzene	98%		71-132%

(a) Dilution required due to matrix interference.

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

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Client Sample ID:	470-UST-7-PE-1	Date Sampled:	09/04/14
Lab Sample ID:	JB75844-1	Date Received:	09/05/14
Matrix:	SO - Soil	Percent Solids:	85.6
Method:	SW846 8270D SW846 3550C		
Project:	Carroll Gardens, 363-365 Bond Street, Brooklyn, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	Z95253.D	1	09/08/14	SW	09/08/14	OP77866	EZ4729
Run #2							

	Initial Weight	Final Volume
Run #1	31.9 g	5.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	1.01	0.18	0.053	mg/kg	
208-96-8	Acenaphthylene	ND	0.18	0.059	mg/kg	
120-12-7	Anthracene	0.609	0.18	0.064	mg/kg	
56-55-3	Benzo(a)anthracene	0.572	0.18	0.060	mg/kg	
50-32-8	Benzo(a)pyrene	0.505	0.18	0.056	mg/kg	
205-99-2	Benzo(b)fluoranthene	0.563	0.18	0.061	mg/kg	
191-24-2	Benzo(g,h,i)perylene	0.519	0.18	0.068	mg/kg	
207-08-9	Benzo(k)fluoranthene	0.198	0.18	0.069	mg/kg	
218-01-9	Chrysene	0.568	0.18	0.062	mg/kg	
53-70-3	Dibenzo(a,h)anthracene	0.115	0.18	0.062	mg/kg	J
206-44-0	Fluoranthene	1.02	0.18	0.081	mg/kg	
86-73-7	Fluorene	1.53	0.18	0.060	mg/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	0.395	0.18	0.064	mg/kg	
91-20-3	Naphthalene	ND	0.18	0.050	mg/kg	
85-01-8	Phenanthrene	2.84	0.18	0.083	mg/kg	
129-00-0	Pyrene	1.42	0.18	0.070	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	105%		10-110%
321-60-8	2-Fluorobiphenyl	84%		17-110%
1718-51-0	Terphenyl-d14	97%		30-124%

(a) Elevated detection limit due to high final volume of viscous extract.

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

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Client Sample ID:	471-UST-7-PE-2	Date Sampled:	09/04/14
Lab Sample ID:	JB75844-2	Date Received:	09/05/14
Matrix:	SO - Soil	Percent Solids:	88.5
Method:	SW846 8260C SW846 5035		
Project:	Carroll Gardens, 363-365 Bond Street, Brooklyn, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	3C113336.D	1	09/08/14	PS	09/06/14 09:00	n/a	V3C5123
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.3 g	5.0 ml	100 ul
Run #2			

VOA STARS List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	0.0134	0.060	0.010	mg/kg	J
104-51-8	n-Butylbenzene	0.251	0.30	0.0066	mg/kg	J
135-98-8	sec-Butylbenzene	0.210	0.30	0.0093	mg/kg	J
98-06-6	tert-Butylbenzene	0.148	0.30	0.0081	mg/kg	J
100-41-4	Ethylbenzene	0.0254	0.060	0.0063	mg/kg	J
98-82-8	Isopropylbenzene	0.0358	0.30	0.0091	mg/kg	J
99-87-6	p-Isopropyltoluene	0.0290	0.30	0.0092	mg/kg	J
1634-04-4	Methyl Tert Butyl Ether	ND	0.060	0.0099	mg/kg	
91-20-3	Naphthalene	0.185	0.30	0.0085	mg/kg	J
103-65-1	n-Propylbenzene	0.0918	0.30	0.0084	mg/kg	J
108-88-3	Toluene	0.0194	0.060	0.0089	mg/kg	J
95-63-6	1,2,4-Trimethylbenzene	0.0573	0.30	0.0083	mg/kg	J
108-67-8	1,3,5-Trimethylbenzene	0.0237	0.30	0.021	mg/kg	J
	m,p-Xylene	0.0812	0.060	0.014	mg/kg	
95-47-6	o-Xylene	0.0324	0.060	0.0084	mg/kg	J
1330-20-7	Xylene (total)	0.114	0.060	0.0084	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	98%		59-130%
17060-07-0	1,2-Dichloroethane-D4	103%		65-123%
2037-26-5	Toluene-D8	110%		77-125%
460-00-4	4-Bromofluorobenzene	97%		71-132%

(a) Dilution required due to matrix interference.

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

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Client Sample ID:	471-UST-7-PE-2	Date Sampled:	09/04/14
Lab Sample ID:	JB75844-2	Date Received:	09/05/14
Matrix:	SO - Soil	Percent Solids:	88.5
Method:	SW846 8270D SW846 3550C		
Project:	Carroll Gardens, 363-365 Bond Street, Brooklyn, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	Z95254.D	1	09/08/14	SW	09/08/14	OP77866	EZ4729
Run #2							

	Initial Weight	Final Volume
Run #1	30.2 g	5.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	1.35	0.19	0.054	mg/kg	
208-96-8	Acenaphthylene	ND	0.19	0.060	mg/kg	
120-12-7	Anthracene	1.15	0.19	0.065	mg/kg	
56-55-3	Benzo(a)anthracene	1.32	0.19	0.061	mg/kg	
50-32-8	Benzo(a)pyrene	1.34	0.19	0.057	mg/kg	
205-99-2	Benzo(b)fluoranthene	1.25	0.19	0.062	mg/kg	
191-24-2	Benzo(g,h,i)perylene	1.18	0.19	0.070	mg/kg	
207-08-9	Benzo(k)fluoranthene	0.337	0.19	0.070	mg/kg	
218-01-9	Chrysene	1.44	0.19	0.063	mg/kg	
53-70-3	Dibenzo(a,h)anthracene	0.258	0.19	0.064	mg/kg	
206-44-0	Fluoranthene	2.47	0.19	0.083	mg/kg	
86-73-7	Fluorene	2.30	0.19	0.061	mg/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	0.809	0.19	0.065	mg/kg	
91-20-3	Naphthalene	ND	0.19	0.051	mg/kg	
85-01-8	Phenanthrene	4.15	0.19	0.085	mg/kg	
129-00-0	Pyrene	3.26	0.19	0.072	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	101%		10-110%
321-60-8	2-Fluorobiphenyl	79%		17-110%
1718-51-0	Terphenyl-d14	95%		30-124%

(a) Elevated detection limit due to high final volume of viscous extract.

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

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Client Sample ID:	472-UST-7-PE-3	Date Sampled:	09/04/14
Lab Sample ID:	JB75844-3	Date Received:	09/05/14
Matrix:	SO - Soil	Percent Solids:	82.2
Method:	SW846 8260C SW846 5035		
Project:	Carroll Gardens, 363-365 Bond Street, Brooklyn, NY		

Run	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	3C113338.D	1	09/08/14	PS	09/06/14 09:00	n/a	V3C5123
Run #2							

Run	Initial Weight	Final Volume	Methanol Aliquot
Run #1	4.8 g	5.0 ml	100 ul
Run #2			

VOA STARS List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	0.0538	0.074	0.013	mg/kg	J
104-51-8	n-Butylbenzene	2.25	0.37	0.0082	mg/kg	
135-98-8	sec-Butylbenzene	1.55	0.37	0.012	mg/kg	
98-06-6	tert-Butylbenzene	0.379	0.37	0.010	mg/kg	
100-41-4	Ethylbenzene	0.0506	0.074	0.0079	mg/kg	J
98-82-8	Isopropylbenzene	0.672	0.37	0.011	mg/kg	
99-87-6	p-Isopropyltoluene	0.0432	0.37	0.011	mg/kg	J
1634-04-4	Methyl Tert Butyl Ether	ND	0.074	0.012	mg/kg	
91-20-3	Naphthalene	0.413	0.37	0.011	mg/kg	
103-65-1	n-Propylbenzene	1.45	0.37	0.010	mg/kg	
108-88-3	Toluene	0.0339	0.074	0.011	mg/kg	J
95-63-6	1,2,4-Trimethylbenzene	0.137	0.37	0.010	mg/kg	J
108-67-8	1,3,5-Trimethylbenzene	ND	0.37	0.026	mg/kg	
	m,p-Xylene	0.191	0.074	0.017	mg/kg	
95-47-6	o-Xylene	0.0669	0.074	0.010	mg/kg	J
1330-20-7	Xylene (total)	0.258	0.074	0.010	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	95%		59-130%
17060-07-0	1,2-Dichloroethane-D4	95%		65-123%
2037-26-5	Toluene-D8	110%		77-125%
460-00-4	4-Bromofluorobenzene	98%		71-132%

(a) Dilution required due to matrix interference.

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

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Client Sample ID:	472-UST-7-PE-3	Date Sampled:	09/04/14
Lab Sample ID:	JB75844-3	Date Received:	09/05/14
Matrix:	SO - Soil	Percent Solids:	82.2
Method:	SW846 8270D SW846 3550C		
Project:	Carroll Gardens, 363-365 Bond Street, Brooklyn, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	Z95255.D	1	09/09/14	SW	09/08/14	OP77866	EZ4729
Run #2	2P40509.D	5	09/09/14	SP	09/08/14	OP77866	E2P1697

	Initial Weight	Final Volume
Run #1	32.6 g	5.0 ml
Run #2	32.6 g	5.0 ml

BN PAH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	9.04	0.19	0.054	mg/kg	
208-96-8	Acenaphthylene	ND	0.19	0.060	mg/kg	
120-12-7	Anthracene	6.43	0.19	0.065	mg/kg	
56-55-3	Benzo(a)anthracene	1.61	0.19	0.061	mg/kg	
50-32-8	Benzo(a)pyrene	1.26	0.19	0.057	mg/kg	
205-99-2	Benzo(b)fluoranthene	1.24	0.19	0.062	mg/kg	
191-24-2	Benzo(g,h,i)perylene	1.01	0.19	0.069	mg/kg	
207-08-9	Benzo(k)fluoranthene	0.401	0.19	0.070	mg/kg	
218-01-9	Chrysene	1.86	0.19	0.063	mg/kg	
53-70-3	Dibenzo(a,h)anthracene	0.235	0.19	0.064	mg/kg	
206-44-0	Fluoranthene	4.05	0.19	0.082	mg/kg	
86-73-7	Fluorene	16.3	0.19	0.061	mg/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	0.688	0.19	0.065	mg/kg	
91-20-3	Naphthalene	ND	0.19	0.051	mg/kg	
85-01-8	Phenanthrene	41.7 ^b	0.93	0.42	mg/kg	
129-00-0	Pyrene	6.10	0.19	0.072	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	189% ^c	63%	10-110%
321-60-8	2-Fluorobiphenyl	87%	110%	17-110%
1718-51-0	Terphenyl-d14	111%	108%	30-124%

(a) Elevated detection limit due to high final volume of viscous extract.

(b) Result is from Run# 2

(c) Outside control limits due to dilution and matrix interference.

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

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Client Sample ID:	473-UST-7-PE-4	Date Sampled:	09/04/14
Lab Sample ID:	JB75844-4	Date Received:	09/05/14
Matrix:	SO - Soil	Percent Solids:	78.0
Method:	SW846 8260C SW846 5035		
Project:	Carroll Gardens, 363-365 Bond Street, Brooklyn, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3C113353.D	1	09/09/14	PS	09/06/14 09:00	n/a	V3C5124
Run #2							

	Initial Weight
Run #1	4.5 g
Run #2	

VOA STARS List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	0.0014	0.00025	mg/kg	
104-51-8	n-Butylbenzene	ND	0.0071	0.00016	mg/kg	
135-98-8	sec-Butylbenzene	0.0041	0.0071	0.00022	mg/kg	J
98-06-6	tert-Butylbenzene	0.0036	0.0071	0.00019	mg/kg	J
100-41-4	Ethylbenzene	ND	0.0014	0.00015	mg/kg	
98-82-8	Isopropylbenzene	0.00062	0.0071	0.00022	mg/kg	J
99-87-6	p-Isopropyltoluene	ND	0.0071	0.00022	mg/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	0.0014	0.00024	mg/kg	
91-20-3	Naphthalene	0.0025	0.0071	0.00020	mg/kg	J
103-65-1	n-Propylbenzene	ND	0.0071	0.00020	mg/kg	
108-88-3	Toluene	ND	0.0014	0.00021	mg/kg	
95-63-6	1,2,4-Trimethylbenzene	0.00058	0.0071	0.00020	mg/kg	J
108-67-8	1,3,5-Trimethylbenzene	ND	0.0071	0.00051	mg/kg	
	m,p-Xylene	ND	0.0014	0.00032	mg/kg	
95-47-6	o-Xylene	ND	0.0014	0.00020	mg/kg	
1330-20-7	Xylene (total)	ND	0.0014	0.00020	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	98%		59-130%
17060-07-0	1,2-Dichloroethane-D4	102%		65-123%
2037-26-5	Toluene-D8	106%		77-125%
460-00-4	4-Bromofluorobenzene	96%		71-132%

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

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Client Sample ID:	473-UST-7-PE-4	Date Sampled:	09/04/14
Lab Sample ID:	JB75844-4	Date Received:	09/05/14
Matrix:	SO - Soil	Percent Solids:	78.0
Method:	SW846 8270D SW846 3550C		
Project:	Carroll Gardens, 363-365 Bond Street, Brooklyn, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	Z95256.D	1	09/09/14	SW	09/08/14	OP77866	EZ4729
Run #2							

	Initial Weight	Final Volume
Run #1	31.0 g	5.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	1.12	0.21	0.060	mg/kg	
208-96-8	Acenaphthylene	ND	0.21	0.066	mg/kg	
120-12-7	Anthracene	0.933	0.21	0.072	mg/kg	
56-55-3	Benzo(a)anthracene	1.24	0.21	0.067	mg/kg	
50-32-8	Benzo(a)pyrene	1.44	0.21	0.063	mg/kg	
205-99-2	Benzo(b)fluoranthene	1.02	0.21	0.069	mg/kg	
191-24-2	Benzo(g,h,i)perylene	1.28	0.21	0.077	mg/kg	
207-08-9	Benzo(k)fluoranthene	0.340	0.21	0.078	mg/kg	
218-01-9	Chrysene	1.49	0.21	0.070	mg/kg	
53-70-3	Dibenzo(a,h)anthracene	0.333	0.21	0.071	mg/kg	
206-44-0	Fluoranthene	1.98	0.21	0.091	mg/kg	
86-73-7	Fluorene	1.89	0.21	0.068	mg/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	0.697	0.21	0.072	mg/kg	
91-20-3	Naphthalene	ND	0.21	0.056	mg/kg	
85-01-8	Phenanthrene	4.13	0.21	0.094	mg/kg	
129-00-0	Pyrene	2.66	0.21	0.079	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	90%		10-110%
321-60-8	2-Fluorobiphenyl	75%		17-110%
1718-51-0	Terphenyl-d14	86%		30-124%

(a) Elevated detection limit due to high final volume of viscous extract.

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

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Client Sample ID:	474-UST-7-PE-5		
Lab Sample ID:	JB75844-5	Date Sampled:	09/04/14
Matrix:	SO - Soil	Date Received:	09/05/14
Method:	SW846 8260C SW846 5035	Percent Solids:	81.3
Project:	Carroll Gardens, 363-365 Bond Street, Brooklyn, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3C113354.D	1	09/09/14	PS	09/06/14 09:00	n/a	V3C5124
Run #2							

	Initial Weight
Run #1	4.6 g
Run #2	

VOA STARS List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	0.0013	0.00023	mg/kg	
104-51-8	n-Butylbenzene	0.0157	0.0067	0.00015	mg/kg	
135-98-8	sec-Butylbenzene	0.0117	0.0067	0.00021	mg/kg	
98-06-6	tert-Butylbenzene	0.0067	0.0067	0.00018	mg/kg	
100-41-4	Ethylbenzene	ND	0.0013	0.00014	mg/kg	
98-82-8	Isopropylbenzene	0.0013	0.0067	0.00020	mg/kg	J
99-87-6	p-Isopropyltoluene	ND	0.0067	0.00021	mg/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	0.0013	0.00022	mg/kg	
91-20-3	Naphthalene	0.0027	0.0067	0.00019	mg/kg	J
103-65-1	n-Propylbenzene	0.0016	0.0067	0.00019	mg/kg	J
108-88-3	Toluene	ND	0.0013	0.00020	mg/kg	
95-63-6	1,2,4-Trimethylbenzene	ND	0.0067	0.00019	mg/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	0.0067	0.00048	mg/kg	
	m,p-Xylene	ND	0.0013	0.00030	mg/kg	
95-47-6	o-Xylene	0.0013	0.0013	0.00019	mg/kg	
1330-20-7	Xylene (total)	0.0013	0.0013	0.00019	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	95%		59-130%
17060-07-0	1,2-Dichloroethane-D4	99%		65-123%
2037-26-5	Toluene-D8	110%		77-125%
460-00-4	4-Bromofluorobenzene	94%		71-132%

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

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Client Sample ID:	474-UST-7-PE-5	Date Sampled:	09/04/14
Lab Sample ID:	JB75844-5	Date Received:	09/05/14
Matrix:	SO - Soil	Percent Solids:	81.3
Method:	SW846 8270D SW846 3550C		
Project:	Carroll Gardens, 363-365 Bond Street, Brooklyn, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Z95257.D	1	09/09/14	SW	09/08/14	OP77866	EZ4729
Run #2	2P40510.D	2	09/09/14	SP	09/08/14	OP77866	E2P1697

	Initial Weight	Final Volume
Run #1	32.6 g	1.0 ml
Run #2	32.6 g	1.0 ml

BN PAH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	1.05	0.038	0.011	mg/kg	
208-96-8	Acenaphthylene	ND	0.038	0.012	mg/kg	
120-12-7	Anthracene	0.934	0.038	0.013	mg/kg	
56-55-3	Benzo(a)anthracene	0.353	0.038	0.012	mg/kg	
50-32-8	Benzo(a)pyrene	0.397	0.038	0.012	mg/kg	
205-99-2	Benzo(b)fluoranthene	0.393	0.038	0.013	mg/kg	
191-24-2	Benzo(g,h,i)perylene	0.355	0.038	0.014	mg/kg	
207-08-9	Benzo(k)fluoranthene	0.145	0.038	0.014	mg/kg	
218-01-9	Chrysene	0.386	0.038	0.013	mg/kg	
53-70-3	Dibenzo(a,h)anthracene	0.0818	0.038	0.013	mg/kg	
206-44-0	Fluoranthene	0.833	0.038	0.017	mg/kg	
86-73-7	Fluorene	2.14	0.038	0.012	mg/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	0.263	0.038	0.013	mg/kg	
91-20-3	Naphthalene	ND	0.038	0.010	mg/kg	
85-01-8	Phenanthrene	4.61 ^a	0.075	0.034	mg/kg	
129-00-0	Pyrene	1.34	0.038	0.014	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	101%	90%	10-110%
321-60-8	2-Fluorobiphenyl	71%	85%	17-110%
1718-51-0	Terphenyl-d14	95%	106%	30-124%

(a) Result is from Run# 2

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Accutest LabLink@815166 15:07 18-Sep-2014

Report of Analysis

Page 1 of 1

Client Sample ID:	475-FB-24	Date Sampled:	09/04/14
Lab Sample ID:	JB75844-6	Date Received:	09/05/14
Matrix:	AQ - Field Blank Soil	Percent Solids:	n/a
Method:	SW846 8260C		
Project:	Carroll Gardens, 363-365 Bond Street, Brooklyn, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	4D51746.D	1	09/08/14	PR	n/a	n/a	V4D2303
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA STARS List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.21	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	0.18	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.20	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.33	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.31	ug/l	
98-82-8	Isopropylbenzene	ND	2.0	0.22	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.16	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.19	ug/l	
91-20-3	Naphthalene	ND	5.0	0.26	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.22	ug/l	
108-88-3	Toluene	ND	1.0	0.22	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.18	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.26	ug/l	
	m,p-Xylene	ND	1.0	0.35	ug/l	
95-47-6	o-Xylene	ND	1.0	0.20	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.20	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	85%		79-120%
17060-07-0	1,2-Dichloroethane-D4	85%		72-123%
2037-26-5	Toluene-D8	98%		78-119%
460-00-4	4-Bromofluorobenzene	90%		74-119%

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Accutest LabLink@815166 15:07 18-Sep-2014

Report of Analysis

Page 1 of 1

Client Sample ID:	475-FB-24	Date Sampled:	09/04/14
Lab Sample ID:	JB75844-6	Date Received:	09/05/14
Matrix:	AQ - Field Blank Soil	Percent Solids:	n/a
Method:	SW846 8270D SW846 3510C		
Project:	Carroll Gardens, 363-365 Bond Street, Brooklyn, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2P40506.D	1	09/09/14	SP	09/08/14	OP77878	E2P1697
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	1.0	0.30	ug/l	
208-96-8	Acenaphthylene	ND	1.0	0.20	ug/l	
120-12-7	Anthracene	ND	1.0	0.19	ug/l	
56-55-3	Benzo(a)anthracene	ND	1.0	0.22	ug/l	
50-32-8	Benzo(a)pyrene	ND	1.0	0.24	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	1.0	0.22	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	1.0	0.31	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	1.0	0.22	ug/l	
218-01-9	Chrysene	ND	1.0	0.16	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	1.0	0.28	ug/l	
206-44-0	Fluoranthene	ND	1.0	0.16	ug/l	
86-73-7	Fluorene	ND	1.0	0.27	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	1.0	0.40	ug/l	
91-20-3	Naphthalene	ND	1.0	0.27	ug/l	
85-01-8	Phenanthrene	ND	1.0	0.19	ug/l	
129-00-0	Pyrene	ND	1.0	0.19	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	67%		28-131%
321-60-8	2-Fluorobiphenyl	67%		30-121%
1718-51-0	Terphenyl-d14	42%		16-147%

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Accutest LabLink@815166 15:07 18-Sep-2014

Report of Analysis

Page 1 of 1

Client Sample ID:	476-TB-21	Date Sampled:	09/04/14
Lab Sample ID:	JB75844-7	Date Received:	09/05/14
Matrix:	AQ - Trip Blank Soil	Percent Solids:	n/a
Method:	SW846 8260C		
Project:	Carroll Gardens, 363-365 Bond Street, Brooklyn, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	4D51747.D	1	09/08/14	PR	n/a	n/a	V4D2303
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA STARS List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.21	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	0.18	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.20	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.33	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.31	ug/l	
98-82-8	Isopropylbenzene	ND	2.0	0.22	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.16	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.19	ug/l	
91-20-3	Naphthalene	ND	5.0	0.26	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.22	ug/l	
108-88-3	Toluene	ND	1.0	0.22	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.18	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.26	ug/l	
	m,p-Xylene	ND	1.0	0.35	ug/l	
95-47-6	o-Xylene	ND	1.0	0.20	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.20	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	87%		79-120%
17060-07-0	1,2-Dichloroethane-D4	88%		72-123%
2037-26-5	Toluene-D8	98%		78-119%
460-00-4	4-Bromofluorobenzene	91%		74-119%

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Misc. Forms

5

Custody Documents and Other Forms

Includes the following where applicable:

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



PAGE 1 OF 1

FED-EX Tracking #	Bottle Order Control #
Accutest Quote #	Accutest Job # JB75844

Client / Reporting Information				Project Information				Requested Analysis (see TEST CODE sheet)												Matrix Codes																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
Company Name: Langan				Project Name: 360 Blvd St Redevelopment																	DW - Drinking Water GW - Ground Water WW - Water SW - Surface Water SO - Soil SL - Sludge SED-Sediment OI - Oil LIQ - Other Liquid AIR - Air SOL - Other Solid WP - Wipe FB-Field Blank EB-Equipment Blank RB- Rinse Blank TB-Trip Blank																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
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5.1

JB75844: Chain of Custody

Page 1 of 2

Accutest Laboratories Sample Receipt Summary

Accutest Job Number: JB75844 **Client:** _____ **Project:** _____
Date / Time Received: 9/5/2014 **Delivery Method:** _____ **Airbill #s:** _____
Cooler Temps (Initial/Adjusted): #1: (5/5); 0

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

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

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

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

<u>Sample Integrity - Condition</u>	<u>Y</u>	<u>or</u>	<u>N</u>
1. Sample recvd within HT:	☒		☐
2. All containers accounted for:	☒		☐
3. Condition of sample:	Intact		

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

Comments

Internal Sample Tracking Chronicle

Langan Engineering & Environmental

Job No: JB75844

Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

Project No: 365 Bond Street, 100287501

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
JB75844-1 Collected: 04-SEP-14 11:10 By: CM Received: 05-SEP-14 By: AS 470-UST-7-PE-1						
JB75844-1	SM2540 G-97	08-SEP-14 14:20	BM			%SOL
JB75844-1	SW846 8260C	08-SEP-14 16:37	PS			VC8260STAR
JB75844-1	SW846 8270D	08-SEP-14 23:30	SW	08-SEP-14	AQ	B8270PAH
JB75844-2 Collected: 04-SEP-14 11:15 By: CM Received: 05-SEP-14 By: AS 471-UST-7-PE-2						
JB75844-2	SM2540 G-97	08-SEP-14 14:20	BM			%SOL
JB75844-2	SW846 8260C	08-SEP-14 15:45	PS			VC8260STAR
JB75844-2	SW846 8270D	08-SEP-14 23:55	SW	08-SEP-14	AQ	B8270PAH
JB75844-3 Collected: 04-SEP-14 11:20 By: CM Received: 05-SEP-14 By: AS 472-UST-7-PE-3						
JB75844-3	SM2540 G-97	08-SEP-14 14:20	BM			%SOL
JB75844-3	SW846 8260C	08-SEP-14 17:04	PS			VC8260STAR
JB75844-3	SW846 8270D	09-SEP-14 00:20	SW	08-SEP-14	AQ	B8270PAH
JB75844-3	SW846 8270D	09-SEP-14 10:47	SP	08-SEP-14	AQ	B8270PAH
JB75844-4 Collected: 04-SEP-14 11:25 By: CM Received: 05-SEP-14 By: AS 473-UST-7-PE-4						
JB75844-4	SM2540 G-97	08-SEP-14 14:20	BM			%SOL
JB75844-4	SW846 8260C	09-SEP-14	PS			VC8260STAR
JB75844-4	SW846 8270D	09-SEP-14 00:46	SW	08-SEP-14	AQ	B8270PAH
JB75844-5 Collected: 04-SEP-14 11:30 By: CM Received: 05-SEP-14 By: AS 474-UST-7-PE-5						
JB75844-5	SM2540 G-97	08-SEP-14 14:20	BM			%SOL
JB75844-5	SW846 8260C	09-SEP-14 00:28	PS			VC8260STAR
JB75844-5	SW846 8270D	09-SEP-14 01:11	SW	08-SEP-14	AQ	B8270PAH
JB75844-5	SW846 8270D	09-SEP-14 11:10	SP	08-SEP-14	AQ	B8270PAH
JB75844-6 Collected: 04-SEP-14 11:45 By: CM Received: 05-SEP-14 By: AS 475-FB-24						

Internal Sample Tracking Chronicle

Langan Engineering & Environmental

Job No: JB75844

Carroll Gardens, 363-365 Bond Street, Brooklyn, NY
Project No: 365 Bond Street, 100287501

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
JB75844-6	SW846 8260C	08-SEP-14 18:10	PR			VC8260STAR
JB75844-6	SW846 8270D	09-SEP-14 09:40	SP	08-SEP-14	SP	B8270PAH
JB75844-7 476-TB-21	Collected: 04-SEP-14 11:45 By: CM		Received: 05-SEP-14 By: AS			
JB75844-7	SW846 8260C	08-SEP-14 18:37	PR			VC8260STAR

Accutest Internal Chain of Custody

Page 1 of 4

Job Number: JB75844
Account: LANGAN Langan Engineering & Environmental
Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY
Received: 09/05/14

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JB75844-1.1	Secured Storage	Todd Shoemaker	09/08/14 11:07	Retrieve from Storage
JB75844-1.1	Todd Shoemaker	Secured Staging Area	09/08/14 11:08	Return to Storage
JB75844-1.1	Secured Staging Area	Albert Quayson	09/08/14 11:20	Retrieve from Storage
JB75844-1.1	Albert Quayson	Secured Storage	09/08/14 16:45	Return to Storage
JB75844-1.1.1	Albert Quayson	Organics Prep	09/08/14 11:20	Extract from JB75844-1.1
JB75844-1.1.1	Organics Prep	Albert Quayson	09/08/14 16:30	Extract from JB75844-1.1
JB75844-1.1.1	Albert Quayson	Extract Storage	09/08/14 16:30	Return to Storage
JB75844-1.1.1	Extract Storage	Sara Wellington	09/09/14 01:22	Retrieve from Storage
JB75844-1.1.1	Sara Wellington	GCMSZ	09/09/14 01:22	Load on Instrument
JB75844-1.1.1	GCMSZ	Olga Azarihn	09/12/14 10:49	Unload from Instrument
JB75844-1.1.1	Olga Azarihn	Extract Freezer	09/12/14 10:49	Return to Storage
JB75844-1.3	Secured Storage	Harrison Tsai	09/06/14 09:15	Retrieve from Storage
JB75844-1.3	Harrison Tsai	Secured Storage	09/06/14 09:23	Return to Storage
JB75844-1.3	Secured Storage	Robert Szot	09/08/14 14:56	Retrieve from Storage
JB75844-1.3	Robert Szot	Secured Storage	09/08/14 15:12	Return to Storage
JB75844-1.4	Secured Storage	Harrison Tsai	09/06/14 09:15	Retrieve from Storage
JB75844-1.4	Harrison Tsai	Secured Storage	09/06/14 09:23	Return to Storage
JB75844-1.5	Secured Storage	Harrison Tsai	09/06/14 09:15	Retrieve from Storage
JB75844-1.5	Harrison Tsai	Secured Storage	09/06/14 09:23	Return to Storage
JB75844-2.1	Secured Storage	Todd Shoemaker	09/08/14 11:07	Retrieve from Storage
JB75844-2.1	Todd Shoemaker	Secured Staging Area	09/08/14 11:08	Return to Storage
JB75844-2.1	Secured Staging Area	Albert Quayson	09/08/14 11:20	Retrieve from Storage
JB75844-2.1	Albert Quayson	Secured Storage	09/08/14 16:45	Return to Storage
JB75844-2.1.1	Albert Quayson	Organics Prep	09/08/14 11:20	Extract from JB75844-2.1
JB75844-2.1.1	Organics Prep	Albert Quayson	09/08/14 16:30	Extract from JB75844-2.1
JB75844-2.1.1	Albert Quayson	Extract Storage	09/08/14 16:30	Return to Storage
JB75844-2.1.1	Extract Storage	Sara Wellington	09/09/14 01:22	Retrieve from Storage
JB75844-2.1.1	Sara Wellington	GCMSZ	09/09/14 01:22	Load on Instrument
JB75844-2.1.1	GCMSZ	Olga Azarihn	09/12/14 10:49	Unload from Instrument
JB75844-2.1.1	Olga Azarihn	Extract Freezer	09/12/14 10:49	Return to Storage
JB75844-2.3	Secured Storage	Harrison Tsai	09/06/14 09:15	Retrieve from Storage
JB75844-2.3	Harrison Tsai	Secured Storage	09/06/14 09:23	Return to Storage
JB75844-2.3	Secured Storage	Robert Szot	09/08/14 14:56	Retrieve from Storage
JB75844-2.3	Robert Szot	Secured Storage	09/08/14 15:12	Return to Storage
JB75844-2.4	Secured Storage	Harrison Tsai	09/06/14 09:15	Retrieve from Storage
JB75844-2.4	Harrison Tsai	Secured Storage	09/06/14 09:23	Return to Storage

Accutest Internal Chain of Custody

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Job Number: JB75844
Account: LANGAN Langan Engineering & Environmental
Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY
Received: 09/05/14

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JB75844-2.5	Secured Storage	Harrison Tsai	09/06/14 09:15	Retrieve from Storage
JB75844-2.5	Harrison Tsai	Secured Storage	09/06/14 09:23	Return to Storage
JB75844-3.1	Secured Storage	Todd Shoemaker	09/08/14 11:07	Retrieve from Storage
JB75844-3.1	Todd Shoemaker	Secured Staging Area	09/08/14 11:08	Return to Storage
JB75844-3.1	Secured Staging Area	Albert Quayson	09/08/14 11:20	Retrieve from Storage
JB75844-3.1	Albert Quayson	Secured Storage	09/08/14 16:45	Return to Storage
JB75844-3.1.1	Albert Quayson	Organics Prep	09/08/14 11:20	Extract from JB75844-3.1
JB75844-3.1.1	Organics Prep	Albert Quayson	09/08/14 16:30	Extract from JB75844-3.1
JB75844-3.1.1	Albert Quayson	Extract Storage	09/08/14 16:30	Return to Storage
JB75844-3.1.1	Extract Storage	Sara Wellington	09/09/14 01:22	Retrieve from Storage
JB75844-3.1.1	Sara Wellington	GCMSZ	09/09/14 01:22	Load on Instrument
JB75844-3.1.1	GCMSZ	Olga Azarihn	09/09/14 08:52	Unload from Instrument
JB75844-3.1.1	Olga Azarihn	GCMS2P	09/09/14 08:52	Load on Instrument
JB75844-3.1.1	GCMS2P	Kristi Schollenberger	09/11/14 12:24	Unload from Instrument
JB75844-3.1.1	Kristi Schollenberger	Extract Freezer	09/11/14 12:24	Return to Storage
JB75844-3.3	Secured Storage	Harrison Tsai	09/06/14 09:15	Retrieve from Storage
JB75844-3.3	Harrison Tsai	Secured Storage	09/06/14 09:23	Return to Storage
JB75844-3.3	Secured Storage	Robert Szot	09/08/14 14:56	Retrieve from Storage
JB75844-3.3	Robert Szot	Secured Storage	09/08/14 15:12	Return to Storage
JB75844-3.4	Secured Storage	Harrison Tsai	09/06/14 09:15	Retrieve from Storage
JB75844-3.4	Harrison Tsai	Secured Storage	09/06/14 09:23	Return to Storage
JB75844-3.5	Secured Storage	Harrison Tsai	09/06/14 09:15	Retrieve from Storage
JB75844-3.5	Harrison Tsai	Secured Storage	09/06/14 09:23	Return to Storage
JB75844-4.1	Secured Storage	Todd Shoemaker	09/08/14 11:07	Retrieve from Storage
JB75844-4.1	Todd Shoemaker	Secured Staging Area	09/08/14 11:08	Return to Storage
JB75844-4.1	Secured Staging Area	Albert Quayson	09/08/14 11:20	Retrieve from Storage
JB75844-4.1	Albert Quayson	Secured Storage	09/08/14 16:45	Return to Storage
JB75844-4.1.1	Albert Quayson	Organics Prep	09/08/14 11:20	Extract from JB75844-4.1
JB75844-4.1.1	Organics Prep	Albert Quayson	09/08/14 16:30	Extract from JB75844-4.1
JB75844-4.1.1	Albert Quayson	Extract Storage	09/08/14 16:30	Return to Storage
JB75844-4.1.1	Extract Storage	Sara Wellington	09/09/14 01:22	Retrieve from Storage
JB75844-4.1.1	Sara Wellington	GCMSZ	09/09/14 01:22	Load on Instrument
JB75844-4.1.1	GCMSZ	Olga Azarihn	09/12/14 10:49	Unload from Instrument
JB75844-4.1.1	Olga Azarihn	Extract Freezer	09/12/14 10:49	Return to Storage
JB75844-4.3	Secured Storage	Harrison Tsai	09/06/14 09:15	Retrieve from Storage

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Job Number: JB75844
Account: LANGAN Langan Engineering & Environmental
Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY
Received: 09/05/14

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JB75844-4.3	Harrison Tsai	Secured Storage	09/06/14 09:23	Return to Storage
JB75844-4.4	Secured Storage	Harrison Tsai	09/06/14 09:15	Retrieve from Storage
JB75844-4.4	Harrison Tsai	Secured Storage	09/06/14 09:23	Return to Storage
JB75844-4.4	Secured Storage	Robert Szot	09/08/14 17:59	Retrieve from Storage
JB75844-4.4	Robert Szot	GCMS3C	09/08/14 17:59	Load on Instrument
JB75844-4.4	GCMS3C	Prashant Shukla	09/09/14 10:05	Unload from Instrument
JB75844-4.4	Prashant Shukla		09/09/14 10:05	Depleted
JB75844-4.5	Secured Storage	Harrison Tsai	09/06/14 09:15	Retrieve from Storage
JB75844-4.5	Harrison Tsai	Secured Storage	09/06/14 09:23	Return to Storage
JB75844-5.1	Secured Storage	Todd Shoemaker	09/08/14 11:07	Retrieve from Storage
JB75844-5.1	Todd Shoemaker	Secured Staging Area	09/08/14 11:08	Return to Storage
JB75844-5.1	Secured Staging Area	Albert Quayson	09/08/14 11:20	Retrieve from Storage
JB75844-5.1	Albert Quayson	Secured Storage	09/08/14 16:45	Return to Storage
JB75844-5.1.1	Albert Quayson	Organics Prep	09/08/14 11:20	Extract from JB75844-5.1
JB75844-5.1.1	Organics Prep	Albert Quayson	09/08/14 16:30	Extract from JB75844-5.1
JB75844-5.1.1	Albert Quayson	Extract Storage	09/08/14 16:30	Return to Storage
JB75844-5.1.1	Extract Storage	Sara Wellington	09/09/14 01:22	Retrieve from Storage
JB75844-5.1.1	Sara Wellington	GCMSZ	09/09/14 01:22	Load on Instrument
JB75844-5.1.1	GCMSZ	Olga Azarihn	09/09/14 08:52	Unload from Instrument
JB75844-5.1.1	Olga Azarihn	GCMS2P	09/09/14 08:52	Load on Instrument
JB75844-5.1.1	GCMS2P	Kristi Schollenberger	09/11/14 12:24	Unload from Instrument
JB75844-5.1.1	Kristi Schollenberger	Extract Freezer	09/11/14 12:24	Return to Storage
JB75844-5.3	Secured Storage	Harrison Tsai	09/06/14 09:15	Retrieve from Storage
JB75844-5.3	Harrison Tsai	Secured Storage	09/06/14 09:23	Return to Storage
JB75844-5.4	Secured Storage	Harrison Tsai	09/06/14 09:15	Retrieve from Storage
JB75844-5.4	Harrison Tsai	Secured Storage	09/06/14 09:23	Return to Storage
JB75844-5.4	Secured Storage	Robert Szot	09/08/14 17:59	Retrieve from Storage
JB75844-5.4	Robert Szot	GCMS3C	09/08/14 17:59	Load on Instrument
JB75844-5.4	GCMS3C	Prashant Shukla	09/09/14 10:05	Unload from Instrument
JB75844-5.4	Prashant Shukla		09/09/14 10:05	Depleted
JB75844-5.5	Secured Storage	Harrison Tsai	09/06/14 09:15	Retrieve from Storage
JB75844-5.5	Harrison Tsai	Secured Storage	09/06/14 09:23	Return to Storage
JB75844-6.1	Secured Storage	Alfredo Crespo	09/08/14 12:19	Retrieve from Storage
JB75844-6.1	Alfredo Crespo	Secured Staging Area	09/08/14 12:19	Return to Storage
JB75844-6.1	Secured Staging Area	Nikita Permiuov	09/08/14 15:12	Retrieve from Storage
JB75844-6.1	Nikita Permiuov		09/09/14 00:03	Depleted

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Job Number: JB75844
Account: LANGAN Langan Engineering & Environmental
Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY
Received: 09/05/14

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JB75844-6.1.1	Nikita Permiuov	Organics Prep	09/08/14 15:14	Extract from JB75844-6.1
JB75844-6.1.1	Organics Prep	Seleb Pan	09/08/14 21:08	Extract from JB75844-6.1
JB75844-6.1.1	Seleb Pan	Extract Storage	09/08/14 21:08	Return to Storage
JB75844-6.1.1	Extract Storage	Olga Azarihn	09/09/14 08:52	Retrieve from Storage
JB75844-6.1.1	Olga Azarihn	GCMS2P	09/09/14 08:52	Load on Instrument
JB75844-6.1.1	GCMS2P	Kristi Schollenberger	09/11/14 12:24	Unload from Instrument
JB75844-6.1.1	Kristi Schollenberger	Extract Freezer	09/11/14 12:24	Return to Storage
JB75844-6.4	Secured Storage	Payal Rana	09/08/14 16:14	Retrieve from Storage
JB75844-6.4	Payal Rana	GCMS4D	09/08/14 16:14	Load on Instrument
JB75844-6.4	GCMS4D	Payal Rana	09/09/14 11:16	Unload from Instrument
JB75844-6.4	Payal Rana	Secured Storage	09/09/14 11:16	Return to Storage
JB75844-7.3	Secured Storage	Payal Rana	09/08/14 16:14	Retrieve from Storage
JB75844-7.3	Payal Rana	GCMS4D	09/08/14 16:14	Load on Instrument
JB75844-7.3	GCMS4D	Payal Rana	09/09/14 11:16	Unload from Instrument
JB75844-7.3	Payal Rana	Secured Storage	09/09/14 11:16	Return to Storage

GC/MS Volatiles

QC Data Summaries

Includes the following where applicable:

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

Method Blank Summary

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Job Number: JB75844**Account:** LANGAN Langan Engineering & Environmental**Project:** Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V4D2303-MB	4D51729.D	1	09/08/14	PR	n/a	n/a	V4D2303

The QC reported here applies to the following samples:**Method:** SW846 8260C

JB75844-6, JB75844-7

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.21	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	0.18	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.20	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.33	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.31	ug/l	
98-82-8	Isopropylbenzene	ND	2.0	0.22	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.16	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.19	ug/l	
91-20-3	Naphthalene	ND	5.0	0.26	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.22	ug/l	
108-88-3	Toluene	ND	1.0	0.22	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.18	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.26	ug/l	
	m,p-Xylene	ND	1.0	0.35	ug/l	
95-47-6	o-Xylene	ND	1.0	0.20	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.20	ug/l	

CAS No.	Surrogate Recoveries	Limits
1868-53-7	Dibromofluoromethane	88% 79-120%
17060-07-0	1,2-Dichloroethane-D4	93% 72-123%
2037-26-5	Toluene-D8	99% 78-119%
460-00-4	4-Bromofluorobenzene	91% 74-119%

Method Blank Summary

Job Number: JB75844

Account: LANGAN Langan Engineering & Environmental

Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V3C5123-MB	3C113333.D	1	09/08/14	PS	n/a	n/a	V3C5123

The QC reported here applies to the following samples:

Method: SW846 8260C

JB75844-1, JB75844-2, JB75844-3

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	50	8.7	ug/kg	
104-51-8	n-Butylbenzene	ND	250	5.6	ug/kg	
135-98-8	sec-Butylbenzene	ND	250	7.8	ug/kg	
98-06-6	tert-Butylbenzene	ND	250	6.8	ug/kg	
100-41-4	Ethylbenzene	ND	50	5.3	ug/kg	
98-82-8	Isopropylbenzene	ND	250	7.7	ug/kg	
99-87-6	p-Isopropyltoluene	ND	250	7.7	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	50	8.3	ug/kg	
91-20-3	Naphthalene	ND	250	7.1	ug/kg	
103-65-1	n-Propylbenzene	ND	250	7.1	ug/kg	
108-88-3	Toluene	ND	50	7.5	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	ND	250	7.0	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	250	18	ug/kg	
	m,p-Xylene	ND	50	11	ug/kg	
95-47-6	o-Xylene	ND	50	7.1	ug/kg	
1330-20-7	Xylene (total)	ND	50	7.1	ug/kg	

CAS No.	Surrogate Recoveries	Limits
1868-53-7	Dibromofluoromethane	99% 59-130%
17060-07-0	1,2-Dichloroethane-D4	102% 65-123%
2037-26-5	Toluene-D8	108% 77-125%
460-00-4	4-Bromofluorobenzene	103% 71-132%

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

Method Blank Summary

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Job Number: JB75844

Account: LANGAN Langan Engineering & Environmental

Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V3C5124-MB	3C113346.D	1	09/08/14	PS	n/a	n/a	V3C5124

The QC reported here applies to the following samples:

Method: SW846 8260C

JB75844-4, JB75844-5

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.17	ug/kg	
104-51-8	n-Butylbenzene	ND	5.0	0.11	ug/kg	
135-98-8	sec-Butylbenzene	ND	5.0	0.16	ug/kg	
98-06-6	tert-Butylbenzene	ND	5.0	0.14	ug/kg	
100-41-4	Ethylbenzene	ND	1.0	0.11	ug/kg	
98-82-8	Isopropylbenzene	ND	5.0	0.15	ug/kg	
99-87-6	p-Isopropyltoluene	ND	5.0	0.15	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.17	ug/kg	
91-20-3	Naphthalene	ND	5.0	0.14	ug/kg	
103-65-1	n-Propylbenzene	ND	5.0	0.14	ug/kg	
108-88-3	Toluene	ND	1.0	0.15	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.14	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	0.36	ug/kg	
	m,p-Xylene	ND	1.0	0.23	ug/kg	
95-47-6	o-Xylene	ND	1.0	0.14	ug/kg	
1330-20-7	Xylene (total)	ND	1.0	0.14	ug/kg	

CAS No.	Surrogate Recoveries	Limits
1868-53-7	Dibromofluoromethane	94% 59-130%
17060-07-0	1,2-Dichloroethane-D4	93% 65-123%
2037-26-5	Toluene-D8	106% 77-125%
460-00-4	4-Bromofluorobenzene	97% 71-132%

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

Blank Spike Summary

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Job Number: JB75844**Account:** LANGAN Langan Engineering & Environmental**Project:** Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V4D2303-BS	4D51730.D	1	09/08/14	PR	n/a	n/a	V4D2303

The QC reported here applies to the following samples:**Method:** SW846 8260C

JB75844-6, JB75844-7

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
71-43-2	Benzene	50	54.4	109	80-121
104-51-8	n-Butylbenzene	50	54.7	109	79-126
135-98-8	sec-Butylbenzene	50	53.2	106	80-123
98-06-6	tert-Butylbenzene	50	52.2	104	81-126
100-41-4	Ethylbenzene	50	52.8	106	82-120
98-82-8	Isopropylbenzene	50	52.2	104	80-124
99-87-6	p-Isopropyltoluene	50	54.6	109	83-127
1634-04-4	Methyl Tert Butyl Ether	100	99.6	100	74-123
91-20-3	Naphthalene	50	48.5	97	65-138
103-65-1	n-Propylbenzene	50	54.5	109	81-125
108-88-3	Toluene	50	54.5	109	80-122
95-63-6	1,2,4-Trimethylbenzene	50	53.8	108	81-122
108-67-8	1,3,5-Trimethylbenzene	50	52.0	104	80-122
	m,p-Xylene	100	107	107	81-121
95-47-6	o-Xylene	50	51.1	102	82-121
1330-20-7	Xylene (total)	150	158	105	82-121

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	87%	79-120%
17060-07-0	1,2-Dichloroethane-D4	92%	72-123%
2037-26-5	Toluene-D8	99%	78-119%
460-00-4	4-Bromofluorobenzene	89%	74-119%

* = Outside of Control Limits.

Blank Spike Summary

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Job Number: JB75844**Account:** LANGAN Langan Engineering & Environmental**Project:** Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V3C5123-BS	3C113334.D	1	09/08/14	PS	n/a	n/a	V3C5123

The QC reported here applies to the following samples:**Method:** SW846 8260C

JB75844-1, JB75844-2, JB75844-3

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
71-43-2	Benzene	2500	2850	114	75-122
104-51-8	n-Butylbenzene	2500	3020	121	69-127
135-98-8	sec-Butylbenzene	2500	2800	112	72-123
98-06-6	tert-Butylbenzene	2500	2740	110	72-125
100-41-4	Ethylbenzene	2500	2770	111	75-122
98-82-8	Isopropylbenzene	2500	2700	108	73-123
99-87-6	p-Isopropyltoluene	2500	2740	110	75-128
1634-04-4	Methyl Tert Butyl Ether	5000	5710	114	75-122
91-20-3	Naphthalene	2500	2760	110	67-131
103-65-1	n-Propylbenzene	2500	2940	118	73-125
108-88-3	Toluene	2500	2980	119	75-122
95-63-6	1,2,4-Trimethylbenzene	2500	2910	116	75-120
108-67-8	1,3,5-Trimethylbenzene	2500	2790	112	74-120
	m,p-Xylene	5000	5630	113	75-122
95-47-6	o-Xylene	2500	2850	114	75-121
1330-20-7	Xylene (total)	7500	8470	113	75-122

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	100%	59-130%
17060-07-0	1,2-Dichloroethane-D4	103%	65-123%
2037-26-5	Toluene-D8	110%	77-125%
460-00-4	4-Bromofluorobenzene	98%	71-132%

* = Outside of Control Limits.

Blank Spike Summary

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Job Number: JB75844**Account:** LANGAN Langan Engineering & Environmental**Project:** Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V3C5124-BS	3C113347.D	1	09/08/14	PS	n/a	n/a	V3C5124

The QC reported here applies to the following samples:**Method:** SW846 8260C

JB75844-4, JB75844-5

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
71-43-2	Benzene	50	49.2	98	75-122
104-51-8	n-Butylbenzene	50	51.1	102	69-127
135-98-8	sec-Butylbenzene	50	48.8	98	72-123
98-06-6	tert-Butylbenzene	50	48.3	97	72-125
100-41-4	Ethylbenzene	50	48.9	98	75-122
98-82-8	Isopropylbenzene	50	47.3	95	73-123
99-87-6	p-Isopropyltoluene	50	48.3	97	75-128
1634-04-4	Methyl Tert Butyl Ether	100	99.8	100	75-122
91-20-3	Naphthalene	50	51.9	104	67-131
103-65-1	n-Propylbenzene	50	51.0	102	73-125
108-88-3	Toluene	50	51.8	104	75-122
95-63-6	1,2,4-Trimethylbenzene	50	51.5	103	75-120
108-67-8	1,3,5-Trimethylbenzene	50	49.2	98	74-120
	m,p-Xylene	100	101	101	75-122
95-47-6	o-Xylene	50	50.1	100	75-121
1330-20-7	Xylene (total)	150	151	101	75-122

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	98%	59-130%
17060-07-0	1,2-Dichloroethane-D4	96%	65-123%
2037-26-5	Toluene-D8	106%	77-125%
460-00-4	4-Bromofluorobenzene	97%	71-132%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Page 1 of 1

Job Number: JB75844

Account: LANGAN Langan Engineering & Environmental

Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JB75421-4MS	4D51741.D	1	09/08/14	PR	n/a	n/a	V4D2303
JB75421-4MSD	4D51742.D	1	09/08/14	PR	n/a	n/a	V4D2303
JB75421-4	4D51733.D	1	09/08/14	PR	n/a	n/a	V4D2303

The QC reported here applies to the following samples:

Method: SW846 8260C

JB75844-6, JB75844-7

CAS No.	Compound	JB75421-4 ug/l	Spike Q ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	ND	50	41.3	83	50	41.4	83	0	50-136/12
104-51-8	n-Butylbenzene	0.86	50	40.7	80	50	40.0	78	2	53-141/15
135-98-8	sec-Butylbenzene	ND	50	40.1	80	50	39.9	80	1	54-137/15
98-06-6	tert-Butylbenzene	ND	50	40.4	81	50	39.6	79	2	58-137/14
100-41-4	Ethylbenzene	3.6	50	43.6	80	50	43.1	79	1	49-137/13
98-82-8	Isopropylbenzene	0.74	50	42.0	83	50	41.3	81	2	57-136/14
99-87-6	p-Isopropyltoluene	ND	50	41.7	83	50	41.6	83	0	58-135/14
1634-04-4	Methyl Tert Butyl Ether	ND	50	43.8	88	50	43.5	87	1	64-134/11
91-20-3	Naphthalene	2.8	50	48.9	92	50	48.8	92	0	53-153/14
103-65-1	n-Propylbenzene	2.6	50	41.4	78	50	40.9	77	1	53-138/14
108-88-3	Toluene	ND	50	42.3	85	50	42.4	85	0	54-137/13
95-63-6	1,2,4-Trimethylbenzene	16.8	50	50.9	68	50	50.2	67	1	50-139/13
108-67-8	1,3,5-Trimethylbenzene	4.2	50	44.6	81	50	43.3	78	3	56-136/14
	m,p-Xylene	5.2	100	89.1	84	100	88.5	83	1	50-137/12
95-47-6	o-Xylene	ND	50	43.6	87	50	43.3	87	1	60-134/12
1330-20-7	Xylene (total)	5.2	150	133	85	150	132	85	1	53-136/12

CAS No.	Surrogate Recoveries	MS	MSD	JB75421-4	Limits
1868-53-7	Dibromofluoromethane	83%	83%	88%	79-120%
17060-07-0	1,2-Dichloroethane-D4	82%	82%	94%	72-123%
2037-26-5	Toluene-D8	97%	99%	99%	78-119%
460-00-4	4-Bromofluorobenzene	90%	88%	90%	74-119%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Page 1 of 1

Job Number: JB75844

Account: LANGAN Langan Engineering & Environmental

Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JB75844-2MS	3C113341.D	1	09/08/14	PS	n/a	n/a	V3C5123
JB75844-2MSD	3C113342.D	1	09/08/14	PS	n/a	n/a	V3C5123
JB75844-2 ^a	3C113336.D	1	09/08/14	PS	n/a	n/a	V3C5123

The QC reported here applies to the following samples:

Method: SW846 8260C

JB75844-1, JB75844-2, JB75844-3

CAS No.	Compound	JB75844-2 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	Spike ug/kg	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	13.4	J	2990	2760	92	2990	2960	99	7	45-131/22
104-51-8	n-Butylbenzene	251	J	2990	3070	94	2990	3350	104	9	10-150/30
135-98-8	sec-Butylbenzene	210	J	2990	3020	94	2990	3330	104	10	15-145/28
98-06-6	tert-Butylbenzene	148	J	2990	3000	95	2990	3290	105	9	22-143/27
100-41-4	Ethylbenzene	25.4	J	2990	2950	98	2990	3210	107	8	30-139/26
98-82-8	Isopropylbenzene	35.8	J	2990	2890	95	2990	3160	104	9	26-141/26
99-87-6	p-Isopropyltoluene	29.0	J	2990	2800	93	2990	3040	101	8	16-145/28
1634-04-4	Methyl Tert Butyl Ether	ND		2990	2810	94	2990	3000	100	7	45-130/21
91-20-3	Naphthalene	185	J	2990	3380	107	2990	3600	114	6	10-159/33
103-65-1	n-Propylbenzene	91.8	J	2990	3060	99	2990	3300	107	8	18-145/28
108-88-3	Toluene	19.4	J	2990	3030	101	2990	3250	108	7	38-135/23
95-63-6	1,2,4-Trimethylbenzene	57.3	J	2990	3040	100	2990	3270	107	7	17-145/28
108-67-8	1,3,5-Trimethylbenzene	23.7	J	2990	3000	100	2990	3280	109	9	20-144/26
	m,p-Xylene	81.2		5980	6110	101	5980	6610	109	8	29-140/26
95-47-6	o-Xylene	32.4	J	2990	3050	101	2990	3280	109	7	31-140/24
1330-20-7	Xylene (total)	114		8970	9160	101	8970	9890	109	8	30-140/25

CAS No.	Surrogate Recoveries	MS	MSD	JB75844-2	Limits
1868-53-7	Dibromofluoromethane	97%	94%	98%	59-130%
17060-07-0	1,2-Dichloroethane-D4	94%	93%	103%	65-123%
2037-26-5	Toluene-D8	110%	107%	110%	77-125%
460-00-4	4-Bromofluorobenzene	96%	94%	97%	71-132%

(a) Dilution required due to matrix interference.

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

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Job Number: JB75844

Account: LANGAN Langan Engineering & Environmental

Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JB75788-8MS	3C113348.D	1	09/08/14	PS	n/a	n/a	V3C5124
JB75788-8MSD	3C113349.D	1	09/08/14	PS	n/a	n/a	V3C5124
JB75788-8	3C113351.D	1	09/08/14	PS	n/a	n/a	V3C5124

The QC reported here applies to the following samples:

Method: SW846 8260C

JB75844-4, JB75844-5

CAS No.	Compound	JB75788-8 ug/kg	Spike Q	ug/kg	MS ug/kg	MS %	Spike ug/kg	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	ND		55.7	44.1	79	55.7	43.6	78	1	45-131/22
104-51-8	n-Butylbenzene	ND		55.7	44.8	80	55.7	44.9	81	0	10-150/30
135-98-8	sec-Butylbenzene	ND		55.7	44.9	81	55.7	44.6	80	1	15-145/28
98-06-6	tert-Butylbenzene	ND		55.7	43.8	79	55.7	43.8	79	0	22-143/27
100-41-4	Ethylbenzene	ND		55.7	44.9	81	55.7	45.0	81	0	30-139/26
98-82-8	Isopropylbenzene	ND		55.7	43.6	78	55.7	43.8	79	0	26-141/26
99-87-6	p-Isopropyltoluene	ND		55.7	43.6	78	55.7	43.9	79	1	16-145/28
1634-04-4	Methyl Tert Butyl Ether	0.76	J	55.7	48.0	85	55.7	48.6	86	1	45-130/21
91-20-3	Naphthalene	ND		55.7	51.1	92	55.7	50.9	91	0	10-159/33
103-65-1	n-Propylbenzene	ND		55.7	44.1	79	55.7	44.2	79	0	18-145/28
108-88-3	Toluene	ND		55.7	47.7	86	55.7	47.5	85	0	38-135/23
95-63-6	1,2,4-Trimethylbenzene	ND		55.7	44.8	80	55.7	44.8	80	0	17-145/28
108-67-8	1,3,5-Trimethylbenzene	ND		55.7	45.0	81	55.7	44.9	81	0	20-144/26
	m,p-Xylene	ND		111	92.0	83	111	91.7	82	0	29-140/26
95-47-6	o-Xylene	ND		55.7	46.7	84	55.7	46.5	83	0	31-140/24
1330-20-7	Xylene (total)	ND		167	139	83	167	138	83	1	30-140/25

CAS No.	Surrogate Recoveries	MS	MSD	JB75788-8	Limits
1868-53-7	Dibromofluoromethane	97%	100%	97%	59-130%
17060-07-0	1,2-Dichloroethane-D4	97%	99%	100%	65-123%
2037-26-5	Toluene-D8	107%	106%	106%	77-125%
460-00-4	4-Bromofluorobenzene	97%	97%	102%	71-132%

* = Outside of Control Limits.

Instrument Performance Check (BFB)**Job Number:** JB75844**Account:** LANGAN Langan Engineering & Environmental**Project:** Carroll Gardens, 363-365 Bond Street, Brooklyn, NY**Sample:** V3C5053-BFB**Injection Date:** 07/28/14**Lab File ID:** 3C112038.D**Injection Time:** 11:25**Instrument ID:** GCMS3C

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance	Pass/Fail
50	15.0 - 40.0% of mass 95	9143	16.3	Pass
75	30.0 - 60.0% of mass 95	25688	45.7	Pass
95	Base peak, 100% relative abundance	56154	100.0	Pass
96	5.0 - 9.0% of mass 95	3758	6.69	Pass
173	Less than 2.0% of mass 174	0	0.00 (0.00) ^a	Pass
174	50.0 - 120.0% of mass 95	48869	87.0	Pass
175	5.0 - 9.0% of mass 174	3694	6.58 (7.56) ^a	Pass
176	95.0 - 101.0% of mass 174	47488	84.6 (97.2) ^a	Pass
177	5.0 - 9.0% of mass 176	3169	5.64 (6.67) ^b	Pass

(a) Value is % of mass 174

(b) Value is % of mass 176

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

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
V3C5053-IC5053	3C112039.D	07/28/14	12:05	00:40	Initial cal 0.2
V3C5053-IC5053	3C112040.D	07/28/14	12:33	01:08	Initial cal 0.5
V3C5053-IC5053	3C112041.D	07/28/14	13:01	01:36	Initial cal 1
V3C5053-IC5053	3C112042.D	07/28/14	13:29	02:04	Initial cal 2
V3C5053-IC5053	3C112043.D	07/28/14	13:57	02:32	Initial cal 5
V3C5053-IC5053	3C112044.D	07/28/14	14:25	03:00	Initial cal 10
V3C5053-IC5053	3C112045.D	07/28/14	14:52	03:27	Initial cal 20
V3C5053-ICC5053	3C112046.D	07/28/14	15:20	03:55	Initial cal 50
V3C5053-IC5053	3C112047.D	07/28/14	15:48	04:23	Initial cal 100
V3C5053-IC5053	3C112048.D	07/28/14	16:16	04:51	Initial cal 200
V3C5053-ICV5053	3C112051.D	07/28/14	17:40	06:15	Initial cal verification 50
V3C5054-MB	3C112054.D	07/28/14	19:03	07:38	Method Blank
ZZZZZZ	3C112055.D	07/28/14	19:31	08:06	(unrelated sample)
ZZZZZZ	3C112056.D	07/28/14	19:59	08:34	(unrelated sample)
ZZZZZZ	3C112057.D	07/28/14	20:27	09:02	(unrelated sample)
ZZZZZZ	3C112058.D	07/28/14	20:54	09:29	(unrelated sample)
ZZZZZZ	3C112059.D	07/28/14	21:22	09:57	(unrelated sample)
ZZZZZZ	3C112060.D	07/28/14	21:50	10:25	(unrelated sample)

Instrument Performance Check (BFB)**Job Number:** JB75844**Account:** LANGAN Langan Engineering & Environmental**Project:** Carroll Gardens, 363-365 Bond Street, Brooklyn, NY**Sample:** V3C5123-BFB**Injection Date:** 09/08/14**Lab File ID:** 3C113330.D**Injection Time:** 12:53**Instrument ID:** GCMS3C

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance	Pass/Fail
50	15.0 - 40.0% of mass 95	16737	21.7	Pass
75	30.0 - 60.0% of mass 95	39866	51.6	Pass
95	Base peak, 100% relative abundance	77213	100.0	Pass
96	5.0 - 9.0% of mass 95	5411	7.01	Pass
173	Less than 2.0% of mass 174	108	0.14 (0.16) ^a	Pass
174	50.0 - 120.0% of mass 95	66397	86.0	Pass
175	5.0 - 9.0% of mass 174	4760	6.16 (7.17) ^a	Pass
176	95.0 - 101.0% of mass 174	63408	82.1 (95.5) ^a	Pass
177	5.0 - 9.0% of mass 176	4397	5.69 (6.93) ^b	Pass

(a) Value is % of mass 174

(b) Value is % of mass 176

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

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
V3C5123-CC5053	3C113331.D	09/08/14	13:21	00:28	Continuing cal 20
V3C5123-MB	3C113333.D	09/08/14	14:22	01:29	Method Blank
V3C5123-BS	3C113334.D	09/08/14	14:50	01:57	Blank Spike
JB75844-2	3C113336.D	09/08/14	15:45	02:52	471-UST-7-PE-2
JB75844-1	3C113337.D	09/08/14	16:37	03:44	470-UST-7-PE-1
JB75844-3	3C113338.D	09/08/14	17:04	04:11	472-UST-7-PE-3
ZZZZZZ	3C113339.D	09/08/14	17:32	04:39	(unrelated sample)
ZZZZZZ	3C113340.D	09/08/14	17:59	05:06	(unrelated sample)
JB75844-2MS	3C113341.D	09/08/14	18:27	05:34	Matrix Spike
JB75844-2MSD	3C113342.D	09/08/14	18:55	06:02	Matrix Spike Duplicate
V3C5124-MB	3C113346.D	09/08/14	20:46	07:53	Method Blank
V3C5124-BS	3C113347.D	09/08/14	21:14	08:21	Blank Spike
JB75788-8MS	3C113348.D	09/08/14	21:42	08:49	Matrix Spike
JB75788-8MSD	3C113349.D	09/08/14	22:09	09:16	Matrix Spike Duplicate
JB75788-8	3C113351.D	09/08/14	23:05	10:12	(used for QC only; not part of job JB75844)
ZZZZZZ	3C113352.D	09/08/14	23:33	10:40	(unrelated sample)
JB75844-4	3C113353.D	09/09/14	00:00	11:07	473-UST-7-PE-4
JB75844-5	3C113354.D	09/09/14	00:28	11:35	474-UST-7-PE-5

Instrument Performance Check (BFB)**Job Number:** JB75844**Account:** LANGAN Langan Engineering & Environmental**Project:** Carroll Gardens, 363-365 Bond Street, Brooklyn, NY**Sample:** V4D2264-BFB**Injection Date:** 08/04/14**Lab File ID:** 4D50729.D**Injection Time:** 12:17**Instrument ID:** GCMS4D

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance	Pass/Fail
50	15.0 - 40.0% of mass 95	12949	17.2	Pass
75	30.0 - 60.0% of mass 95	33048	44.0	Pass
95	Base peak, 100% relative abundance	75152	100.0	Pass
96	5.0 - 9.0% of mass 95	5176	6.89	Pass
173	Less than 2.0% of mass 174	0	0.00 (0.00) ^a	Pass
174	50.0 - 120.0% of mass 95	64555	85.9	Pass
175	5.0 - 9.0% of mass 174	4928	6.56 (7.63) ^a	Pass
176	95.0 - 101.0% of mass 174	63520	84.5 (98.4) ^a	Pass
177	5.0 - 9.0% of mass 176	4234	5.63 (6.67) ^b	Pass

(a) Value is % of mass 174

(b) Value is % of mass 176

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

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
V4D2264-IC2264	4D50730.D	08/04/14	12:51	00:34	Initial cal 0.2
V4D2264-IC2264	4D50733.D	08/04/14	14:13	01:56	Initial cal 2
V4D2264-IC2264	4D50734.D	08/04/14	14:41	02:24	Initial cal 5
V4D2264-IC2264	4D50735.D	08/04/14	15:08	02:51	Initial cal 10
V4D2264-IC2264	4D50736.D	08/04/14	15:35	03:18	Initial cal 20
V4D2264-ICC2264	4D50737.D	08/04/14	16:03	03:46	Initial cal 50
V4D2264-IC2264	4D50738.D	08/04/14	16:30	04:13	Initial cal 100
V4D2264-IC2264	4D50739.D	08/04/14	16:57	04:40	Initial cal 200
V4D2264-IC2264	4D50743.D	08/04/14	18:47	06:30	Initial cal 0.5
V4D2264-IC2264	4D50744.D	08/04/14	19:14	06:57	Initial cal 1
V4D2264-ICV2264	4D50745.D	08/04/14	19:41	07:24	Initial cal verification 50

Instrument Performance Check (BFB)

Job Number: JB75844

Account: LANGAN Langan Engineering & Environmental

Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

Sample: V4D2303-BFB

Injection Date: 09/08/14

Lab File ID: 4D51727.D

Injection Time: 08:58

Instrument ID: GCMS4D

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance	Pass/Fail
50	15.0 - 40.0% of mass 95	8842	17.0	Pass
75	30.0 - 60.0% of mass 95	22869	43.9	Pass
95	Base peak, 100% relative abundance	52096	100.0	Pass
96	5.0 - 9.0% of mass 95	3475	6.67	Pass
173	Less than 2.0% of mass 174	0	0.00 (0.00) ^a	Pass
174	50.0 - 120.0% of mass 95	49504	95.0	Pass
175	5.0 - 9.0% of mass 174	3833	7.36 (7.74) ^a	Pass
176	95.0 - 101.0% of mass 174	48949	94.0 (98.9) ^a	Pass
177	5.0 - 9.0% of mass 176	3236	6.21 (6.61) ^b	Pass

(a) Value is % of mass 174

(b) Value is % of mass 176

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

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
V4D2303-CC2264	4D51728.D	09/08/14	09:30	00:32	Continuing cal 20
V4D2303-MB	4D51729.D	09/08/14	10:01	01:03	Method Blank
V4D2303-BS	4D51730.D	09/08/14	10:37	01:39	Blank Spike
ZZZZZZ	4D51732.D	09/08/14	11:33	02:35	(unrelated sample)
JB75421-4	4D51733.D	09/08/14	12:00	03:02	(used for QC only; not part of job JB75844)
ZZZZZZ	4D51734.D	09/08/14	12:27	03:29	(unrelated sample)
ZZZZZZ	4D51735.D	09/08/14	12:54	03:56	(unrelated sample)
ZZZZZZ	4D51736.D	09/08/14	13:21	04:23	(unrelated sample)
ZZZZZZ	4D51737.D	09/08/14	14:00	05:02	(unrelated sample)
ZZZZZZ	4D51738.D	09/08/14	14:33	05:35	(unrelated sample)
ZZZZZZ	4D51739.D	09/08/14	15:00	06:02	(unrelated sample)
ZZZZZZ	4D51740.D	09/08/14	15:27	06:29	(unrelated sample)
JB75421-4MS	4D51741.D	09/08/14	15:54	06:56	Matrix Spike
JB75421-4MSD	4D51742.D	09/08/14	16:21	07:23	Matrix Spike Duplicate
ZZZZZZ	4D51744.D	09/08/14	17:16	08:18	(unrelated sample)
ZZZZZZ	4D51745.D	09/08/14	17:43	08:45	(unrelated sample)
JB75844-6	4D51746.D	09/08/14	18:10	09:12	475-FB-24
JB75844-7	4D51747.D	09/08/14	18:37	09:39	476-TB-21
ZZZZZZ	4D51748.D	09/08/14	19:04	10:06	(unrelated sample)
ZZZZZZ	4D51749.D	09/08/14	19:32	10:34	(unrelated sample)
ZZZZZZ	4D51751.D	09/08/14	20:26	11:28	(unrelated sample)

Volatile Internal Standard Area Summary

Page 1 of 1

Job Number: JB75844

Account: LANGAN Langan Engineering & Environmental

Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

Check Std: V3C5123-CC5053

Injection Date: 09/08/14

Lab File ID: 3C113331.D

Injection Time: 13:21

Instrument ID: GCMS3C

Method: SW846 8260C

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
Check Std	59208	7.29	222882	9.53	260981	10.45	233448	13.58	113828	15.87
Upper Limit ^a	118416	7.79	445764	10.03	521962	10.95	466896	14.08	227656	16.37
Lower Limit ^b	29604	6.79	111441	9.03	130491	9.95	116724	13.08	56914	15.37

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
V3C5123-MB	59075	7.30	244348	9.53	285004	10.45	249728	13.58	112499	15.87
V3C5123-BS	59033	7.30	223369	9.53	260980	10.45	236535	13.58	118008	15.87
JB75844-2 ^c	64776	7.31	242480	9.53	282610	10.45	255468	13.58	126293	15.87
JB75844-1 ^c	78710	7.31	281057	9.53	321245	10.44	287376	13.58	141611	15.87
JB75844-3 ^c	65586	7.31	259143	9.53	293858	10.45	264744	13.58	128812	15.87
ZZZZZZ	75846	7.31	314946	9.53	356263	10.45	315706	13.58	159379	15.87
ZZZZZZ	83072	7.32	308309	9.53	345199	10.45	307867	13.58	155719	15.87
JB75844-2MS	81099	7.32	299666	9.53	334360	10.45	304158	13.58	154841	15.87
JB75844-2MSD	71634	7.31	277507	9.53	310053	10.44	277921	13.58	140653	15.87
V3C5124-MB	58702	7.30	253828	9.53	282553	10.45	251394	13.58	121022	15.88
V3C5124-BS	80136	7.31	303231	9.53	346437	10.45	311007	13.58	155858	15.87
JB75788-8MS	81860	7.30	305796	9.53	349196	10.45	314105	13.58	158366	15.88
JB75788-8MSD	84712	7.30	309364	9.53	355192	10.45	317062	13.58	158652	15.87
JB75788-8	77620	7.30	298632	9.53	344014	10.45	301914	13.58	140817	15.87
ZZZZZZ	71632	7.29	284413	9.53	325253	10.45	284343	13.58	131630	15.87
JB75844-4	70826	7.30	277848	9.53	321538	10.45	284306	13.58	131353	15.88
JB75844-5	63617	7.30	257722	9.53	288139	10.45	261910	13.58	121631	15.88

IS 1 = Tert Butyl Alcohol-D9

IS 2 = Pentafluorobenzene

IS 3 = 1,4-Difluorobenzene

IS 4 = Chlorobenzene-D5

IS 5 = 1,4-Dichlorobenzene-d4

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

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

(c) Dilution required due to matrix interference.

Volatile Internal Standard Area Summary

Page 1 of 1

Job Number: JB75844

Account: LANGAN Langan Engineering & Environmental

Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

Check Std: V4D2303-CC2264

Injection Date: 09/08/14

Lab File ID: 4D51728.D

Injection Time: 09:30

Instrument ID: GCMS4D

Method: SW846 8260C

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
Check Std	87179	7.00	179046	9.59	208611	10.54	187362	13.91	101761	16.34
Upper Limit ^a	174358	7.50	358092	10.09	417222	11.04	374724	14.41	203522	16.84
Lower Limit ^b	43590	6.50	89523	9.09	104306	10.04	93681	13.41	50881	15.84

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
V4D2303-MB	82495	6.99	176963	9.58	205559	10.54	183545	13.91	96859	16.34
V4D2303-BS	90345	7.01	179667	9.58	207156	10.54	189613	13.91	103416	16.34
ZZZZZZ	83231	7.00	183529	9.58	212262	10.54	190223	13.91	99621	16.34
JB75421-4	83953	7.00	173600	9.58	200527	10.54	177931	13.91	95145	16.34
ZZZZZZ	83276	7.00	180114	9.58	205555	10.54	183979	13.91	96967	16.34
ZZZZZZ	84905	7.00	178922	9.58	206273	10.54	184675	13.91	98503	16.34
ZZZZZZ	82438	7.00	181503	9.58	209503	10.54	188008	13.91	99512	16.34
ZZZZZZ	90544	7.01	180873	9.59	209502	10.54	186216	13.91	100050	16.34
ZZZZZZ	83152	7.00	174701	9.58	199656	10.54	180366	13.91	97785	16.34
ZZZZZZ	110976	6.99	190232	9.58	217050	10.54	196981	13.91	107578	16.34
ZZZZZZ	93352	6.99	206741	9.58	237274	10.54	214310	13.91	111908	16.34
JB75421-4MS	97781	7.00	209586	9.58	240744	10.54	213345	13.91	113692	16.34
JB75421-4MSD	98781	7.00	210957	9.58	240344	10.54	213838	13.91	114537	16.34
ZZZZZZ	95837	7.00	221489	9.58	254399	10.54	224262	13.91	120171	16.34
ZZZZZZ	103011	7.00	216514	9.58	244750	10.54	218344	13.91	116142	16.34
JB75844-6	92055	6.99	201897	9.58	231866	10.54	206152	13.91	109635	16.34
JB75844-7	90422	7.00	198872	9.58	229546	10.54	200614	13.91	106815	16.34
ZZZZZZ	85185	6.99	191482	9.58	223458	10.54	201218	13.91	105646	16.34
ZZZZZZ	84139	7.00	190300	9.58	217730	10.54	195495	13.91	105162	16.34
ZZZZZZ	95284	6.99	196944	9.58	226978	10.54	203130	13.91	108017	16.34

IS 1 = Tert Butyl Alcohol-D9

IS 2 = Pentafluorobenzene

IS 3 = 1,4-Difluorobenzene

IS 4 = Chlorobenzene-D5

IS 5 = 1,4-Dichlorobenzene-d4

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

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

Volatile Surrogate Recovery Summary

Job Number: JB75844
Account: LANGAN Langan Engineering & Environmental
Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

Method: SW846 8260C	Matrix: AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3	S4
JB75844-6	4D51746.D	85	85	98	90
JB75844-7	4D51747.D	87	88	98	91
JB75421-4MS	4D51741.D	83	82	97	90
JB75421-4MSD	4D51742.D	83	82	99	88
V4D2303-BS	4D51730.D	87	92	99	89
V4D2303-MB	4D51729.D	88	93	99	91

Surrogate Compounds	Recovery Limits
S1 = Dibromofluoromethane	79-120%
S2 = 1,2-Dichloroethane-D4	72-123%
S3 = Toluene-D8	78-119%
S4 = 4-Bromofluorobenzene	74-119%

Volatile Surrogate Recovery Summary

Page 1 of 1

Job Number: JB75844

Account: LANGAN Langan Engineering & Environmental

Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

Method: SW846 8260C

Matrix: SO

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3	S4
JB75844-1	3C113337.D	95	99	110	98
JB75844-2	3C113336.D	98	103	110	97
JB75844-3	3C113338.D	95	95	110	98
JB75844-4	3C113353.D	98	102	106	96
JB75844-5	3C113354.D	95	99	110	94
JB75788-8MS	3C113348.D	97	97	107	97
JB75788-8MSD	3C113349.D	100	99	106	97
JB75844-2MS	3C113341.D	97	94	110	96
JB75844-2MSD	3C113342.D	94	93	107	94
V3C5123-BS	3C113334.D	100	103	110	98
V3C5123-MB	3C113333.D	99	102	108	103
V3C5124-BS	3C113347.D	98	96	106	97
V3C5124-MB	3C113346.D	94	93	106	97

Surrogate Compounds

Recovery Limits

S1 = Dibromofluoromethane
S2 = 1,2-Dichloroethane-D4
S3 = Toluene-D8
S4 = 4-Bromofluorobenzene

59-130%
65-123%
77-125%
71-132%

6.6.2

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Initial Calibration Summary

Page 1 of 5

Job Number: JB75844

Sample: V3C5053-ICC5053

Account: LANGAN Langan Engineering & Environmental

Lab FileID: 3C112046.D

Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

Response Factor Report MS3C

Method : C:\MSDCHEM\1\METHODS\M3C5053.M (RTE Integrator)
Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
Last Update : Tue Jul 29 12:37:28 2014
Response via : Initial Calibration

Calibration Files

5 =3C112043.D 10 =3C112044.D 0.5 =3C112040.D 50 =3C112046.D
100 =3C112047.D 1 =3C112041.D 200 =3C112048.D 20 =3C112045.D
2 =3C112042.D 0.2 =3C112039.D = =

Compound	5	10	0.5	50	100	1	200	20	2	0.2	Avg	%RSD
1) I Tert Butyl Alcohol-d9 -----ISTD-----												
2) 1,4-dioxane												
0.133 0.129			0.144	0.120		0.118	0.129			0.129	7.26	
3) tertiary butyl alcohol												
1.680 1.431			1.551	1.366		1.258	1.389	1.306		1.426	10.23	
4) ethanol										0.000	-1.00	
5) I pentafluorobenzene -----ISTD-----												
6) chlorodifluoromethane												
0.542 0.445			0.472	0.413	0.469	0.406	0.472	0.441		0.458	9.35	
7) dichlorodifluoromethane												
0.610 0.544			0.597	0.514	0.505	0.500	0.580	0.521		0.546	7.98	
8) chloromethane												
0.684 0.564			0.650	0.561	0.701	0.547	0.603	0.603		0.614	9.48	
9) vinyl chloride												
0.614 0.533			0.614	0.532	0.633	0.527	0.589	0.545		0.573	7.63	
10) bromomethane												
0.381 0.334	0.430	0.379	0.335	0.387	0.336	0.356	0.356	0.421	0.372	9.28		
11) chloroethane												
0.336 0.280	0.347	0.310	0.276	0.343	0.276	0.299	0.280		0.305	9.86		
12) 1,3-butadiene												
1.151 0.944			1.031		0.983		1.004	0.975		1.015	7.19	
13) Vinyl Bromide										0.000	-1.00	
14) Pentane										0.000	-1.00	
15) trichlorofluoromethane												
0.723 0.612			0.681	0.590	0.644	0.587	0.653	0.619		0.639	7.34	
16) ethyl ether												
0.250 0.205			0.238	0.219	0.222	0.213	0.213	0.245		0.226	7.33	
17) acrolein												
0.065 0.058			0.067		0.065		0.059	0.062		0.063	5.77	
18) 1,1-dichloroethene												
0.641 0.560	0.682	0.622	0.544	0.715	0.544	0.607	0.602		0.613	9.78		
19) acetone												
0.045 0.042			0.047	0.042		0.032	0.047		0.043	13.08		
20) allyl chloride												
0.226 0.210	0.217	0.232	0.199	0.229	0.200	0.218	0.219		0.217	5.48		
21) acetonitrile												
0.030 0.025			0.028	0.026		0.024	0.027	0.026		0.027	7.02	
22) iodomethane												
0.712 0.637	0.709	0.714	0.630	0.692	0.633	0.665	0.685	0.569	0.665	7.09		
23) iso-butyl alcohol												

Initial Calibration Summary

Job Number: JB75844

Sample: V3C5053-ICC5053

Account: LANGAN Langan Engineering & Environmental

Lab FileID: 3C112046.D

Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

	0.013	0.011		0.012	0.012		0.011	0.010	0.010		0.011	9.49
24)	carbon disulfide											
	1.489	1.283	1.590	1.411	1.231	1.609	1.224	1.354	1.431	1.521	1.414	9.90
25)	methylene chloride											
	0.502	0.416		0.450	0.394		0.387	0.423			0.429	9.85
26)	methyl acetate											
	0.045	0.049		0.056	0.053		0.051	0.046			0.050	8.56
27)	methyl tert butyl ether											
	1.190	1.065	1.267	1.235	1.109	1.163	1.061	1.087	1.169	1.165	1.151	6.08
28)	trans-1,2-dichloroethene											
	0.609	0.542	0.642	0.610	0.533	0.652	0.535	0.582	0.599	0.537	0.584	7.78
29)	di-isopropyl ether											
	1.512	1.259	1.673	1.425	1.292	1.224	1.270	1.287	1.200	1.356	1.350	10.95
30)	ethyl tert-butyl ether											
	1.480	1.231	1.587	1.389	1.261	1.185	1.240	1.259	1.157	1.303	1.309	10.41
31)	2-butanone											
	0.040	0.040		0.050	0.047		0.040	0.047			0.044	10.23
32)	1,1-dichloroethane											
	0.782	0.699	0.811	0.770	0.675	0.838	0.675	0.726	0.734	0.597	0.731	9.90
33)	chloroprene											
	0.672	0.543	0.629	0.610	0.546	0.589	0.546	0.587	0.508	0.558	0.579	8.39
34)	acrylonitrile											
	0.108	0.103	0.085	0.120	0.111	0.100	0.103	0.105	0.101		0.104	9.04
35)	vinyl acetate											
	0.065	0.053		0.071	0.070		0.067	0.057			0.064	11.79
36)	ethyl acetate											
	0.044	0.042		0.046	0.044		0.041	0.046			0.044	4.81
37)	2,2-dichloropropane											
	0.696	0.616	0.771	0.668	0.580	0.725	0.571	0.668	0.704	0.666	0.666	9.45
38)	cis-1,2-dichloroethene											
	0.762	0.653	0.722	0.739	0.653	0.782	0.647	0.693	0.697	0.661	0.701	6.94
39)	propionitrile											
	0.043	0.039		0.047	0.044		0.040	0.040	0.040		0.042	6.83
40)	Methyl Acrylate											
	0.029	0.033		0.050	0.049		0.046	0.039			0.041	21.40
	----- Linear regression ----- Coefficient = 0.9975											
	Response Ratio = -0.00063 + 0.04668 *A											
41)	bromochloromethane											
	0.209	0.185	0.153	0.217	0.197	0.199	0.193	0.196	0.206		0.195	9.39
42)	tetrahydrofuran											
	0.049	0.040		0.048	0.045		0.042	0.043	0.034		0.043	11.77
43)	chloroform											
	0.751	0.664		0.743	0.654	0.797	0.649	0.685	0.725		0.708	7.61
44)	tert-Butyl Formate											
	0.298	0.250	0.239	0.284	0.264	0.237	0.257	0.256	0.234		0.258	8.43
45)	dibromofluoromethane (s)											
	0.434	0.348		0.378	0.345		0.345	0.355			0.368	9.52
46)	1,2-dichloroethane-d4 (s)											
	0.450	0.366		0.395	0.350		0.344	0.359			0.377	10.57
47)	freon 113											
	0.368	0.303		0.322	0.290	0.261	0.293	0.319	0.281		0.305	10.63
48)	methacrylonitrile											
	0.178	0.161		0.194	0.182		0.170	0.171	0.197		0.179	7.29
49)	1,1,1-trichloroethane											
	0.685	0.611	0.712	0.680	0.585	0.746	0.584	0.657	0.655	0.587	0.650	8.78
50)	Cyclohexane											
	0.743	0.660	0.799	0.722	0.622	0.750	0.628	0.705	0.711	0.790	0.713	8.63
51)	Tert Amyl Alcohol											
											0.000	-1.00

Initial Calibration Summary

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Job Number: JB75844

Sample: V3C5053-ICC5053

Account: LANGAN Langan Engineering & Environmental

Lab FileID: 3C112046.D

Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

52)	2,2,4-trimethylpentane	1.664	1.366	1.761	1.519	1.366	1.433	1.385	1.463	1.332	1.484	1.477	9.41
53)	tert-amyl methyl ether	1.393	1.135		1.292	1.204	1.192	1.172	1.146	1.144		1.210	7.39
54)	I 1,4-difluorobenzene	-----ISTD-----											
55)	epichlorohydrin	0.028	0.024		0.028	0.027	0.020	0.025	0.025	0.022		0.025	11.42
56)	n-butyl alcohol	0.009	0.008		0.010	0.010		0.009	0.008	0.006		0.008	13.78
57)	carbon tetrachloride	0.519	0.467	0.556	0.513	0.447	0.524	0.447	0.492	0.495	0.498	0.496	7.04
58)	1,1-dichloropropene	0.502	0.448	0.601	0.497	0.433	0.524	0.435	0.479	0.478	0.479	0.488	10.18
59)	hexane	0.749	0.495		0.506	0.437		0.430	0.504			0.520	22.53
	----- Linear regression -----	Coefficient = 0.9986											
	Response Ratio = 0.03770 + 0.42195 *A												
60)	benzene	1.515	1.335	1.657	1.506	1.316	1.600	1.321	1.400	1.466	1.520	1.464	8.09
61)	heptane	0.328	0.261	0.340	0.292	0.260	0.267	0.262	0.291	0.260	0.279	0.284	10.33
62)	isopropyl acetate	0.066	0.056		0.068	0.067		0.063	0.059			0.063	7.65
63)	1,2-dichloroethane	0.402	0.368	0.430	0.425	0.373	0.402	0.362	0.374	0.406	0.417	0.396	6.28
64)	trichloroethene	0.370	0.327	0.420	0.368	0.321	0.351	0.323	0.352	0.361	0.279	0.347	10.82
65)	ethyl acrylate											0.000	-1.00
66)	Tert-Amyl ethyl ether											0.000	-1.00
67)	2-nitropropane	0.095	0.086		0.099	0.092		0.084	0.084	0.094		0.091	6.40
68)	2-chloroethyl vinyl ether	0.158	0.137	0.146	0.157	0.149	0.122	0.144	0.136	0.127	0.132	0.141	8.69
69)	methyl methacrylate	0.066	0.066		0.086	0.081		0.076	0.070	0.066		0.073	11.37
70)	1,2-dichloropropane	0.352	0.331	0.373	0.373	0.328	0.347	0.325	0.339	0.338	0.261	0.337	9.40
71)	methylcyclohexane	0.727	0.604		0.651	0.581	0.531	0.584	0.629	0.593		0.612	9.53
72)	dibromomethane	0.184	0.166	0.144	0.191	0.171	0.184	0.167	0.171	0.178		0.173	7.95
73)	bromodichloromethane	0.447	0.409	0.452	0.470	0.423	0.447	0.417	0.424	0.436	0.357	0.428	7.26
74)	cis-1,3-dichloropropene	0.572	0.517	0.573	0.596	0.526	0.529	0.523	0.535	0.509	0.448	0.533	7.71
75)	toluene-d8 (s)	1.350	1.126		1.259	1.113		1.115	1.194	1.360		1.217	8.87
76)	4-methyl-2-pentanone	0.096	0.095		0.112	0.109		0.100	0.098	0.092		0.100	7.36
77)	toluene	1.554	1.382	1.692	1.550	1.354	1.635	1.327	1.448	1.524	1.518	1.498	7.99
78)	3-methyl-1-butanol	0.008	0.007		0.009	0.009		0.008	0.008	0.006		0.008	14.14
79)	trans-1,3-dichloropropene	0.479	0.433	0.483	0.518	0.464	0.435	0.447	0.452	0.468	0.387	0.457	7.72
80)	ethyl methacrylate												

6.7.1
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Initial Calibration Summary

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Job Number: JB75844
Account: LANGAN Langan Engineering & Environmental
Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

Sample: V3C5053-ICC5053
Lab FileID: 3C112046.D

81)	0.368 0.321 0.406 0.382 0.341 0.363 0.342 0.334	0.357	7.83
	1,1,2-trichloroethane		
82)	0.269 0.232 0.245 0.277 0.250 0.254 0.241 0.242 0.252	0.251	5.65
	2-hexanone		
	0.098 0.088 0.107 0.106 0.090 0.093 0.096 0.078	0.094	10.05
83)	I chlorobenzene-d5 -----ISTD-----		
84)	tetrachloroethene		
	0.549 0.472 0.527 0.462 0.603 0.447 0.496 0.546	0.513	10.33
85)	1,3-dichloropropane		
	0.593 0.536 0.579 0.607 0.545 0.623 0.527 0.539 0.587 0.550	0.569	5.87
86)	butyl acetate		
	0.243 0.205 0.237 0.222 0.209 0.211 0.256	0.226	8.67
87)	dibromochloromethane		
	0.425 0.374 0.403 0.439 0.395 0.404 0.388 0.388 0.412 0.374	0.400	5.23
88)	1,2-dibromoethane		
	0.316 0.292 0.331 0.342 0.314 0.313 0.299 0.303 0.323 0.332	0.317	5.07
89)	3,3-Dimethyl-1-Butanol		
	0.038 0.033 0.040 0.040 0.036 0.033 0.032	0.036	9.40
90)	chlorobenzene		
	1.213 1.089 1.350 1.226 1.081 1.286 1.065 1.151 1.192 1.323	1.198	8.49
91)	1,1,1,2-tetrachloroethane		
	0.435 0.403 0.493 0.469 0.414 0.433 0.420 0.423 0.421 0.455	0.437	6.34
92)	ethylbenzene		
	2.154 1.895 2.406 2.148 1.869 2.331 1.856 2.040 2.136 1.983	2.082	9.09
93)	m,p-xylene		
	0.824 0.730 0.856 0.827 0.718 0.844 0.727 0.777 0.804 0.741	0.785	6.73
94)	o-xylene		
	1.701 1.521 1.833 1.725 1.497 1.758 1.498 1.620 1.646 1.866	1.666	8.03
95)	styrene		
	1.231 1.127 1.257 1.343 1.202 1.215 1.193 1.203 1.217 1.235	1.222	4.46
96)	butyl acrylate		
		0.000	-1.00
97)	n-butyl ether		
		0.000	-1.00
98)	bromoform		
	0.261 0.238 0.235 0.285 0.266 0.258 0.254 0.246 0.241 0.265	0.255	6.10
99)	I 1,4-dichlorobenzene-d -----ISTD-----		
100)	isopropylbenzene		
	4.557 3.980 4.973 4.316 3.712 4.793 3.658 4.241 4.317 4.308	4.286	9.92
101)	4-bromofluorobenzene (s)		
	1.264 1.043 1.128 1.014 1.000 1.078	1.088	9.01
102)	bromobenzene		
	1.067 0.937 1.172 1.054 0.931 1.040 0.913 0.983 1.083 1.053	1.023	7.94
103)	cis-1,4-dichloro-2-butene		
	0.323 0.263 0.300 0.298 0.265 0.296	0.291	7.95
104)	cyclohexanone		
	0.170 0.153 0.188 0.167 0.158 0.176 0.119 0.163 0.173	0.163	11.93
105)	1,1,1,2-tetrachloroethane		
	0.921 0.828 1.006 0.915 0.833 0.858 0.776 0.822 0.907 1.015	0.888	8.94
106)	trans-1,4-dichloro-2-butene		
	0.234 0.213 0.240 0.214 0.204 0.218	0.220	6.23
107)	1,2,3-trichloropropane		
	0.248 0.221 0.250 0.225 0.255 0.210 0.230 0.253	0.236	7.23
108)	n-propylbenzene		
	5.129 4.419 5.383 4.768 4.149 5.140 4.060 4.669 4.847 5.323	4.789	9.78
109)	4-Ethyltoluene		
		0.000	-1.00
110)	2-chlorotoluene		

6.7.1
6

Initial Calibration Summary

Page 5 of 5

Job Number: JB75844

Sample: V3C5053-ICC5053

Account: LANGAN Langan Engineering & Environmental

Lab FileID: 3C112046.D

Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

111)	1.069 0.926 1.163 1.025 0.895 1.035 0.899 0.990 1.051 1.081 1.013	8.55
	4-chlorotoluene	
112)	1.068 0.931 1.056 1.031 0.914 1.064 0.905 0.984 1.055 1.015 1.002	6.45
	1,3,5-trimethylbenzene	
113)	3.740 3.303 4.005 3.587 3.158 3.743 3.161 3.467 3.705 3.662 3.553	7.80
	tert-butylbenzene	
114)	3.195 2.892 3.619 3.183 2.758 3.394 2.757 3.088 3.144 2.953 3.098	8.83
	pentachloroethane	
115)	0.658 0.606 0.637 0.692 0.596 0.649 0.627 0.650 0.664	0.642 4.62
	1,2,4-trimethylbenzene	
116)	3.567 3.174 3.905 3.476 3.063 3.468 3.038 3.359 3.496 4.057 3.460	9.61
	sec-butylbenzene	
117)	4.823 4.222 5.172 4.705 4.077 4.942 4.045 4.585 4.690 4.686 4.595	8.09
	1,3-dichlorobenzene	
118)	2.075 1.824 2.320 2.022 1.800 2.214 1.780 1.909 2.073 2.163 2.018	9.21
	p-isopropyltoluene	
119)	4.059 3.586 4.438 3.984 3.455 4.106 3.481 3.899 3.927 3.642 3.858	8.13
	1,4-dichlorobenzene	
120)	2.052 1.828 2.308 2.016 1.784 2.109 1.778 1.869 2.048 2.538 2.033	11.97
	1,2-dichlorobenzene	
121)	1.862 1.704 2.195 1.909 1.697 1.881 1.678 1.792 1.874 2.267 1.886	10.64
	1,4-Diethylbenzene	
122)		0.000 -1.00
	n-butylbenzene	
123)	1.974 1.735 2.050 1.950 1.692 2.064 1.705 1.868 1.879 1.805 1.872	7.30
	1,2,4,5-Tetramethylbenzene	
124)		0.000 -1.00
	1,2-dibromo-3-chloropropane	
125)	0.173 0.164 0.194 0.181 0.190 0.173 0.169 0.179	0.178 5.70
	1,3,5-Trichlorobenzene	
126)	1.691 1.518 1.686 1.733 1.523 1.748 1.503 1.635 1.616 1.724 1.638	5.75
	1,2,4-trichlorobenzene	
127)	1.222 1.172 1.319 1.422 1.284 1.297 1.244 1.265 1.195 1.358 1.278	5.95
	hexachlorobutadiene	
128)	0.877 0.805 1.002 0.884 0.769 0.942 0.760 0.857 0.909 0.937 0.874	8.97
	naphthalene	
129)	2.300 2.180 2.484 2.729 2.554 2.319 2.395 2.358 2.257	2.397 7.01
	1,2,3-trichlorobenzene	
130)	1.114 1.050 1.047 1.282 1.157 1.073 1.103 1.145 1.112 1.177 1.126	6.21
	hexachloroethane	
131)	0.776 0.676 0.856 0.758 0.672 0.793 0.691 0.726 0.780	0.748 8.24
	Benzyl chloride	
	1.889 1.535 1.762 1.660 1.589 1.579 1.662 1.604	1.660 6.95

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

M3C5053.M

Tue Jul 29 12:41:45 2014

MS3C

Initial Calibration Verification

Page 1 of 3

Job Number: JB75844

Sample: V3C5053-ICV5053

Account: LANGAN Langan Engineering & Environmental

Lab FileID: 3C112051.D

Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

Evaluate Continuing Calibration Report

Data File : C:\MSDCHEM\1\DATA\3C112051.D

Vial: 14

Acq On : 28 Jul 2014 5:40 pm

Operator: prashans

Sample : ICV5053-50

Inst : MS3C

Misc : MS70923,V3C5053,5.0,,,,,1

Multiplr: 1.00

MS Integration Params: RTEINT.P

Method : C:\MSDCHEM\1\METHODS\M3C5053.M (RTE Integrator)

Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um

Last Update : Tue Jul 29 12:37:28 2014

Response via : Multiple Level Calibration

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

Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1 I	Tert Butyl Alcohol-d9	1.000	1.000	0.0	120	0.00	7.30
2	1,4-dioxane	0.129	0.132	-2.3	110	0.00	11.17
3	tertiary butyl alcohol	1.426	1.431	-0.4	110	-0.01	7.42
4	ethanol			-----NA-----			
5 I	pentafluorobenzene	1.000	1.000	0.0	113	0.00	9.54
6	chlorodifluoromethane	0.458	0.394	14.0	95	-0.02	3.97
7	dichlorodifluoromethane	0.546	0.519	4.9	99	0.00	3.96
8	chloromethane	0.614	0.569	7.3	99	-0.01	4.29
9	vinyl chloride	0.573	0.543	5.2	100	-0.02	4.54
10	bromomethane	0.372	0.344	7.5	103	-0.02	5.19
11	chloroethane	0.305	0.286	6.2	105	0.00	5.36
12	1,3-butadiene	1.015	0.926	8.8	102	-0.01	4.60
13	Vinyl Bromide			-----NA-----			
14	Pentane			-----NA-----			
15	trichlorofluoromethane	0.639	0.598	6.4	100	-0.01	5.81
16	ethyl ether	0.226	0.223	1.3	106	0.00	6.22
17	acrolein	0.063	0.060	4.8	102	0.00	6.46
18	1,1-dichloroethene	0.613	0.555	9.5	101	0.00	6.64
19	acetone	0.043	0.043	0.0	103	0.00	6.69
20	allyl chloride	0.217	0.203	6.5	99	0.00	7.16
21	acetonitrile	0.027	0.027	0.0	110	0.00	7.11
22	iodomethane	0.665	0.642	3.5	102	0.00	6.91
23	iso-butyl alcohol	0.011	0.011	0.0	108	0.00	9.82
24	carbon disulfide	1.414	1.270	10.2	102	0.00	7.04
25	methylene chloride	0.429	0.406	5.4	102	0.00	7.35
26	methyl acetate	0.050	0.052	-4.0	104	0.00	7.14
27	methyl tert butyl ether	1.151	1.086	5.7	100	0.00	7.68
28	trans-1,2-dichloroethene	0.584	0.544	6.8	101	0.00	7.72
29	di-isopropyl ether	1.350	1.290	4.4	103	0.00	8.27
30	ethyl tert-butyl ether	1.309	1.233	5.8	101	0.00	8.73
31	2-butanone	0.044	0.045	-2.3	102	0.00	8.99
32	1,1-dichloroethane	0.731	0.687	6.0	101	0.00	8.29
33	chloroprene	0.579	0.559	3.5	104	0.00	8.40
34	acrylonitrile	0.104	0.111	-6.7	106	0.00	7.67
35	vinyl acetate	0.064	0.069	-7.8	110	0.00	8.27
36	ethyl acetate	0.044	0.046	-4.5	115	0.00	9.00
37	2,2-dichloropropane	0.666	0.586	12.0	100	0.00	9.03
38	cis-1,2-dichloroethene	0.701	0.665	5.1	102	0.00	9.02
39	propionitrile	0.042	0.043	-2.4	102	0.00	9.07

----- True Calc. % Drift -----

Initial Calibration Verification

Job Number: JB75844

Sample: V3C5053-ICV5053

Account: LANGAN Langan Engineering & Environmental

Lab FileID: 3C112051.D

Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

40	Methyl Acrylate	50.000	50.768	-1.5	107	0.00	9.09
	----- AvgRF	CCRF	% Dev	-----			
41	bromochloromethane	0.195	0.198	-1.5	103	0.00	9.33
42	tetrahydrofuran	0.043	0.044	-2.3	104	0.00	9.37
43	chloroform	0.708	0.659	6.9	101	0.00	9.39
44	tert-Butyl Formate	0.258	0.298	-15.5	119	0.00	9.42
45 S	dibromofluoromethane (s)	0.368	0.355	3.5	106	0.00	9.58
46 S	1,2-dichloroethane-d4 (s)	0.377	0.362	4.0	104	0.00	10.00
47	freon 113	0.305	0.307	-0.7	108	0.00	6.61
48	methacrylonitrile	0.179	0.178	0.6	104	0.00	9.27
49	1,1,1-trichloroethane	0.650	0.598	8.0	100	0.00	9.64
50	Cyclohexane	0.713	0.635	10.9	100	0.00	9.72
51	Tert Amyl Alcohol			-----NA-----			
52	2,2,4-trimethylpentane	1.477	1.481	-0.3	111	0.00	10.09
53	tert-amyl methyl ether	1.210	1.176	2.8	103	0.00	10.11
54 I	1,4-difluorobenzene	1.000	1.000	0.0	115	0.00	10.45
55	epichlorohydrin	0.025	0.026	-4.0	105	0.00	11.70
56	n-butyl alcohol	0.008	0.009	-12.5	110	0.00	10.57
57	carbon tetrachloride	0.496	0.445	10.3	100	0.00	9.85
58	1,1-dichloropropene	0.488	0.436	10.7	101	0.00	9.82
	----- True	Calc.	% Drift	-----			
59	hexane	50.000	52.764	-5.5	110	0.00	8.03
	----- AvgRF	CCRF	% Dev	-----			
60	benzene	1.464	1.319	9.9	101	0.00	10.08
61	heptane	0.284	0.259	8.8	102	0.00	10.25
62	isopropyl acetate	0.063	0.064	-1.6	108	0.00	10.00
63	1,2-dichloroethane	0.396	0.370	6.6	100	0.00	10.10
64	trichloroethene	0.347	0.324	6.6	102	0.00	10.80
65	ethyl acrylate			-----NA-----			
66	Tert-Amyl ethyl ether			-----NA-----			
67	2-nitropropane	0.091	0.086	5.5	101	0.00	11.56
68	2-chloroethyl vinyl ether	0.141	0.142	-0.7	105	0.00	11.58
69	methyl methacrylate	0.073	0.076	-4.1	102	0.00	11.06
70	1,2-dichloropropane	0.337	0.326	3.3	101	0.00	11.06
71	methylcyclohexane	0.612	0.579	5.4	103	0.00	11.02
72	dibromomethane	0.173	0.170	1.7	103	0.00	11.22
73	bromodichloromethane	0.428	0.414	3.3	102	0.00	11.35
74	cis-1,3-dichloropropene	0.533	0.519	2.6	101	0.00	11.80
75 S	toluene-d8 (s)	1.217	1.131	7.1	104	0.00	12.09
76	4-methyl-2-pentanone	0.100	0.104	-4.0	107	0.00	11.89
77	toluene	1.498	1.357	9.4	101	0.00	12.16
78	3-methyl-1-butanol	0.008	0.009	-12.5	114	0.00	11.91
79	trans-1,3-dichloropropene	0.457	0.457	0.0	102	0.00	12.36
80	ethyl methacrylate	0.357	0.365	-2.2	104	0.00	12.35
81	1,1,2-trichloroethane	0.251	0.245	2.4	102	0.00	12.57
82	2-hexanone	0.094	0.097	-3.2	105	0.00	12.73
83 I	chlorobenzene-d5	1.000	1.000	0.0	115	0.00	13.59
84	tetrachloroethene	0.513	0.480	6.4	104	0.00	12.74
85	1,3-dichloropropane	0.569	0.553	2.8	104	0.00	12.75
86	butyl acetate	0.226	0.222	1.8	107	0.00	12.81
87	dibromochloromethane	0.400	0.395	1.3	103	0.00	13.01
88	1,2-dibromoethane	0.317	0.316	0.3	106	0.00	13.16
89	3,3-Dimethyl-1-Butanol	0.036	0.038	-5.6	109	0.00	12.90
90	chlorobenzene	1.198	1.093	8.8	102	0.00	13.62
91	1,1,1,2-tetrachloroethane	0.437	0.415	5.0	101	0.00	13.67

Initial Calibration Verification

Page 3 of 3

Job Number: JB75844

Sample: V3C5053-ICV5053

Account: LANGAN Langan Engineering & Environmental

Lab FileID: 3C112051.D

Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

92	ethylbenzene	2.082	1.886	9.4	101	0.00	13.67
93	m,p-xylene	0.785	0.729	7.1	101	0.00	13.77
94	o-xylene	1.666	1.531	8.1	102	0.00	14.19
95	styrene	1.222	1.198	2.0	102	0.00	14.20
96	butyl acrylate						
97	n-butyl ether						
98	bromoform	0.255	0.259	-1.6	104	0.00	14.46
99 I	1,4-dichlorobenzene-d4	1.000	1.000	0.0	112	0.00	15.88
100	isopropylbenzene	4.286	3.879	9.5	101	0.00	14.52
101 S	4-bromofluorobenzene (s)	1.088	1.057	2.8	105	0.00	14.73
102	bromobenzene	1.023	0.961	6.1	102	0.00	14.92
103	cis-1,4-dichloro-2-butene	0.291	0.278	4.5	104	0.00	14.59
104	cyclohexanone	0.163	0.156	4.3	105	0.00	14.68
105	1,1,2,2-tetrachloroethane	0.888	0.853	3.9	104	0.00	14.83
106	trans-1,4-dichloro-2-bute	0.220	0.218	0.9	102	0.00	14.87
107	1,2,3-trichloropropane	0.236	0.229	3.0	103	0.00	14.90
108	n-propylbenzene	4.789	4.302	10.2	101	0.00	14.93
109	4-Ethyltoluene						
110	2-chlorotoluene	1.013	0.936	7.6	102	0.00	15.08
111	4-chlorotoluene	1.002	0.936	6.6	102	0.00	15.17
112	1,3,5-trimethylbenzene	3.553	3.252	8.5	101	0.00	15.08
113	tert-butylbenzene	3.098	2.860	7.7	101	0.00	15.42
114	pentachloroethane	0.642	0.599	6.7	97	0.00	15.51
115	1,2,4-trimethylbenzene	3.460	3.133	9.5	101	0.00	15.47
116	sec-butylbenzene	4.595	4.214	8.3	100	0.00	15.64
117	1,3-dichlorobenzene	2.018	1.839	8.9	102	0.00	15.82
118	p-isopropyltoluene	3.858	3.588	7.0	101	0.00	15.75
119	1,4-dichlorobenzene	2.033	1.803	11.3	100	0.00	15.90
120	1,2-dichlorobenzene	1.886	1.732	8.2	102	0.00	16.29
121	1,4-Diethylbenzene						
122	n-butylbenzene	1.872	1.737	7.2	100	0.00	16.16
123	1,2,4,5-Tetramethylbenzen						
124	1,2-dibromo-3-chloropropa	0.178	0.178	0.0	103	0.00	17.06
125	1,3,5-Trichlorobenzene	1.638	1.545	5.7	100	0.00	17.25
126	1,2,4-trichlorobenzene	1.278	1.268	0.8	100	0.00	17.87
127	hexachlorobutadiene	0.874	0.793	9.3	100	0.00	17.99
128	naphthalene	2.397	2.530	-5.5	104	0.00	18.15
129	1,2,3-trichlorobenzene	1.126	1.162	-3.2	101	0.00	18.40
130	hexachloroethane	0.748	0.681	9.0	101	0.00	16.55
131	Benzyl chloride	1.660	1.640	1.2	104	0.00	16.02

(#) = Out of Range
3C112046.D M3C5053.M

SPCC's out = 0 CCC's out = 0
Tue Jul 29 12:41:45 2014 MS3C

6.7.2
6

Continuing Calibration Summary

Page 1 of 3

Job Number: JB75844

Sample: V3C5123-CC5053

Account: LANGAN Langan Engineering & Environmental

Lab FileID: 3C113331.D

Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

Evaluate Continuing Calibration Report

Data File : C:\MSDCHEM\1\DATA\3C113331.D

Vial: 2

Acq On : 8 Sep 2014 1:21 pm

Operator: prashans

Sample : CC5053-20

Inst : MS3C

Misc : MS73404,V3C5123,5.0,,,,,1

Multiplr: 1.00

MS Integration Params: RTEINT.P

Method : C:\MSDCHEM\1\METHODS\M3C5053.M (RTE Integrator)

Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um

Last Update : Tue Aug 26 17:19:34 2014

Response via : Multiple Level Calibration

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

Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1 I	Tert Butyl Alcohol-d9	1.000	1.000	0.0	113	-0.01	7.29
2	1,4-dioxane	0.129	0.132	-2.3	115	0.00	11.16
3	tertiary butyl alcohol	1.426	1.647	-15.5	133	-0.02	7.41
4	ethanol			-----NA-----			
5 I	pentafluorobenzene	1.000	1.000	0.0	112	-0.01	9.53
6	chlorodifluoromethane	0.458	0.391	14.6	93	-0.02	3.96
7	dichlorodifluoromethane	0.546	0.651	-19.2	126	-0.02	3.95
8	chloromethane	0.614	0.717	-16.8	134	-0.02	4.29
9	vinyl chloride	0.573	0.669	-16.8	128	-0.02	4.53
10	bromomethane	0.372	0.432	-16.1	136	-0.02	5.19
11	chloroethane	0.305	0.364	-19.3	137	0.00	5.36
12	1,3-butadiene			-----NA-----			
13	Vinyl Bromide			-----NA-----			
14	Pentane			-----NA-----			
15	trichlorofluoromethane	0.639	0.775	-21.3#	134	-0.01	5.81
16	ethyl ether	0.226	0.242	-7.1	128	-0.01	6.22
17	acrolein	0.063	0.069	-9.5	131	-0.01	6.46
18	1,1-dichloroethene	0.613	0.626	-2.1	116	0.00	6.64
19	acetone	0.043	0.036	16.3	87	-0.02	6.68
20	allyl chloride	0.217	0.223	-2.8	115	-0.01	7.16
21	acetonitrile	0.027	0.030	-11.1	125	0.00	7.12
22	iodomethane	0.665	0.676	-1.7	114	0.00	6.91
23	iso-butyl alcohol	0.011	0.013	-18.2	142	0.00	9.81
24	carbon disulfide	1.414	1.352	4.4	112	0.00	7.04
25	methylene chloride	0.429	0.485	-13.1	129	0.00	7.35
26	methyl acetate	0.050	0.054	-8.0	133	0.00	7.15
27	methyl tert butyl ether	1.151	1.247	-8.3	129	0.00	7.68
28	trans-1,2-dichloroethene	0.584	0.623	-6.7	120	0.00	7.72
29	di-isopropyl ether	1.350	1.490	-10.4	130	-0.01	8.26
30	ethyl tert-butyl ether	1.309	1.409	-7.6	126	-0.01	8.73
31	2-butanone	0.044	0.044	0.0	106	0.01	9.00
32	1,1-dichloroethane	0.731	0.792	-8.3	123	-0.01	8.28
33	chloroprene	0.579	0.599	-3.5	115	0.00	8.39
34	acrylonitrile	0.104	0.121	-16.3	129	0.00	7.66
35	vinyl acetate	0.064	0.062	3.1	123	0.00	8.27
36	ethyl acetate	0.044	0.047	-6.8	115	0.00	9.00
37	2,2-dichloropropane	0.666	0.687	-3.2	116	-0.01	9.02
38	cis-1,2-dichloroethene	0.701	0.760	-8.4	123	0.00	9.01
39	propionitrile	0.042	0.047	-11.9	133	-0.01	9.07

----- True Calc. % Drift -----

Continuing Calibration Summary

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Job Number: JB75844

Sample: V3C5123-CC5053

Account: LANGAN Langan Engineering & Environmental

Lab FileID: 3C113331.D

Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

40	Methyl Acrylate	20.000	18.461	7.7	120	0.00	9.08
	----- AvgRF	CCRF	% Dev	-----			
41	bromochloromethane	0.195	0.210	-7.7	120	0.00	9.33
42	tetrahydrofuran	0.043	0.050	-16.3	133	0.00	9.37
43	chloroform	0.708	0.764	-7.9	126	-0.01	9.38
44	tert-Butyl Formate	0.258	0.292	-13.2	128	0.00	9.42
45 S	dibromofluoromethane (s)	0.368	0.370	-0.5	117	0.00	9.58
46 S	1,2-dichloroethane-d4 (s)	0.377	0.396	-5.0	124	0.00	10.00
47	freon 113	0.305	0.294	3.6	104	-0.02	6.60
48	methacrylonitrile	0.179	0.202	-12.8	133	0.00	9.26
49	1,1,1-trichloroethane	0.650	0.688	-5.8	118	-0.01	9.64
50	Cyclohexane	0.713	0.682	4.3	109	-0.01	9.72
51	Tert Amyl Alcohol			-----NA-----			
52	2,2,4-trimethylpentane	1.477	1.395	5.6	107	-0.01	10.08
53	tert-amyl methyl ether	1.210	1.286	-6.3	126	-0.01	10.11
54 I	1,4-difluorobenzene	1.000	1.000	0.0	111	0.00	10.45
55	epichlorohydrin	0.025	0.029	-16.0	129	0.00	11.70
56	n-butyl alcohol	0.008	0.009	-12.5	118	0.00	10.57
57	carbon tetrachloride	0.496	0.508	-2.4	115	-0.01	9.84
58	1,1-dichloropropene	0.488	0.498	-2.0	115	-0.01	9.81
	----- True	Calc.	% Drift	-----			
59	hexane	20.000	16.205	19.0	96	0.00	8.03
	----- AvgRF	CCRF	% Dev	-----			
60	benzene	1.464	1.499	-2.4	119	-0.01	10.08
61	heptane	0.284	0.286	-0.7	109	0.00	10.25
62	isopropyl acetate	0.063	0.067	-6.3	127	0.00	10.00
63	1,2-dichloroethane	0.396	0.475	-19.9	141	0.00	10.09
64	trichloroethene	0.347	0.364	-4.9	115	0.00	10.79
65	ethyl acrylate			-----NA-----			
66	Tert-Amyl ethyl ether			-----NA-----			
67	2-nitropropane	0.091	0.128	-40.7#	168	-0.01	11.55
68	2-chloroethyl vinyl ether	0.141	0.165	-17.0	134	0.00	11.58
69	methyl methacrylate	0.073	0.070	4.1	112	0.00	11.06
70	1,2-dichloropropane	0.337	0.390	-15.7	128	0.00	11.05
71	methylcyclohexane	0.612	0.622	-1.6	110	-0.01	11.01
72	dibromomethane	0.173	0.202	-16.8	130	0.00	11.21
73	bromodichloromethane	0.428	0.510	-19.2	134	0.00	11.34
74	cis-1,3-dichloropropene	0.533	0.612	-14.8	127	0.00	11.80
75 S	toluene-d8 (s)	1.217	1.325	-8.9	123	0.00	12.08
76	4-methyl-2-pentanone	0.100	0.123	-23.0#	139	0.00	11.89
77	toluene	1.498	1.635	-9.1	125	0.00	12.16
78	3-methyl-1-butanol	0.008	0.009	-12.5	127	0.00	11.91
79	trans-1,3-dichloropropene	0.457	0.556	-21.7#	137	0.00	12.35
80	ethyl methacrylate	0.357	0.390	-9.2	127	0.00	12.34
81	1,1,2-trichloroethane	0.251	0.297	-18.3	136	0.00	12.56
82	2-hexanone	0.094	0.106	-12.8	122	0.00	12.73
83 I	chlorobenzene-d5	1.000	1.000	0.0	125	0.00	13.58
84	tetrachloroethene	0.513	0.478	6.8	121	0.00	12.74
85	1,3-dichloropropane	0.569	0.594	-4.4	138	0.00	12.74
86	butyl acetate	0.226	0.224	0.9	133	0.00	12.81
87	dibromochloromethane	0.400	0.403	-0.8	130	0.00	13.01
88	1,2-dibromoethane	0.317	0.339	-6.9	140	-0.01	13.15
89	3,3-Dimethyl-1-Butanol	0.036	0.033	8.3	129	0.00	12.90
90	chlorobenzene	1.198	1.167	2.6	127	0.00	13.61
91	1,1,1,2-tetrachloroethane	0.437	0.454	-3.9	134	0.00	13.67

Continuing Calibration Summary

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Job Number: JB75844

Sample: V3C5123-CC5053

Account: LANGAN Langan Engineering & Environmental

Lab FileID: 3C113331.D

Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

92	ethylbenzene	2.082	2.117	-1.7	130	0.00	13.66
93	m,p-xylene	0.785	0.801	-2.0	129	0.00	13.77
94	o-xylene	1.666	1.734	-4.1	134	0.00	14.18
95	styrene	1.222	1.226	-0.3	128	0.00	14.19
96	butyl acrylate			-----NA-----			
97	n-butyl ether			-----NA-----			
98	bromoform	0.255	0.270	-5.9	138	0.00	14.45
99 I	1,4-dichlorobenzene-d4	1.000	1.000	0.0	127	0.00	15.87
100	isopropylbenzene	4.286	4.280	0.1	129	0.00	14.52
101 S	4-bromofluorobenzene (s)	1.088	1.096	-0.7	130	0.00	14.72
102	bromobenzene	1.023	1.060	-3.6	138	0.00	14.91
103	cis-1,4-dichloro-2-butene			-----NA-----			
104	cyclohexanone	0.163	0.124	23.9#	97	0.00	14.68
105	1,1,2,2-tetrachloroethane	0.888	0.987	-11.1	153	0.00	14.82
106	trans-1,4-dichloro-2-bute	0.220	0.262	-19.1	154	0.00	14.86
107	1,2,3-trichloropropane	0.236	0.257	-8.9	143	-0.01	14.89
108	n-propylbenzene	4.789	4.955	-3.5	135	0.00	14.92
109	4-Ethyltoluene			-----NA-----			
110	2-chlorotoluene	1.013	1.021	-0.8	132	-0.01	15.07
111	4-chlorotoluene	1.002	1.036	-3.4	134	0.00	15.17
112	1,3,5-trimethylbenzene	3.553	3.646	-2.6	134	0.00	15.07
113	tert-butylbenzene	3.098	3.123	-0.8	129	0.00	15.42
114	pentachloroethane	0.642	0.663	-3.3	130	-0.01	15.49
115	1,2,4-trimethylbenzene	3.460	3.515	-1.6	133	0.00	15.46
116	sec-butylbenzene	4.595	4.761	-3.6	132	0.00	15.63
117	1,3-dichlorobenzene	2.018	2.044	-1.3	136	0.00	15.81
118	p-isopropyltoluene	3.858	3.813	1.2	125	0.00	15.75
119	1,4-dichlorobenzene	2.033	2.046	-0.6	140	0.00	15.90
120	1,2-dichlorobenzene	1.886	1.968	-4.3	140	0.00	16.28
121	1,4-Diethylbenzene			-----NA-----			
122	n-butylbenzene	1.872	1.967	-5.1	134	-0.01	16.15
123	1,2,4,5-Tetramethylbenzen			-----NA-----			
124	1,2-dibromo-3-chloropropa	0.178	0.179	-0.6	135	-0.01	17.05
125	1,3,5-Trichlorobenzene	1.638	1.633	0.3	127	-0.01	17.24
126	1,2,4-trichlorobenzene	1.278	1.256	1.7	127	0.00	17.87
127	hexachlorobutadiene	0.874	0.823	5.8	122	0.00	17.98
128	naphthalene	2.397	2.399	-0.1	130	0.00	18.14
129	1,2,3-trichlorobenzene	1.126	1.131	-0.4	126	-0.01	18.39
130	hexachloroethane	0.748	0.751	-0.4	132	0.00	16.55
131	Benzyl chloride	1.660	1.758	-5.9	135	0.00	16.01
132	1,4-dichloro-2-butene			-----NA-----			

(#) = Out of Range
3C112045.D M3C5053.M

SPCC's out = 0 CCC's out = 0
Tue Sep 09 09:45:09 2014 MS3C

6.7.3
6

Initial Calibration Summary

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Job Number: JB75844

Sample: V4D2264-ICC2264

Account: LANGAN Langan Engineering & Environmental

Lab FileID: 4D50737.D

Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

Response Factor Report MS4D

Method : C:\msdchem\1\methods\M4D2264.M (RTE Integrator)
 Title : SW-846 Method 8260C
 Last Update : Tue Aug 05 09:18:13 2014
 Response via : Initial Calibration

Calibration Files

10	=4d50735.D	0.5	=4d50743.D	5	=4d50734.D	50	=4d50737.D
100	=4d50738.D	1	=4d50744.D	200	=4d50739.D	20	=4d50736.D
2	=4d50733.D	0.2	=4d50730.D	=		=	

Compound	10	0.5	5	50	100	1	200	20	2	0.2	Avg	%RSD

1) I Tert Butyl Alcohol-d9	-----ISTD-----											
2) 1,4-dioxane												
	0.136	0.133	0.142	0.143		0.132	0.153	0.098		0.134	12.88	
3) tertiary butyl alcohol												
	1.386	1.404	1.419	1.437		1.309	1.560	1.113		1.375	10.02	
4) I pentafluorobenzene	-----ISTD-----											
5) chlorodifluoromethane												
	0.462	0.442	0.474	0.471		0.487	0.444	0.350		0.447	10.24	
6) dichlorodifluoromethane												
	0.602	0.633	0.670	0.643	0.453	0.647	0.642	0.473		0.595	14.13	
7) chloromethane												
	0.723	0.844	0.733	0.756	0.768	0.670	0.761	0.743	0.595	0.733	9.38	
8) vinyl chloride												
	0.671	0.771	0.686	0.711	0.732	0.620	0.731	0.689	0.539	0.683	10.10	
9) acetaldehyde										0.000	-1.00	
10) bromomethane												
	0.468	0.483	0.478	0.451	0.482	0.322	0.485	0.393		0.445	13.17	
11) chloroethane												
	0.306	0.302	0.309	0.310	0.274	0.291	0.307	0.228		0.291	9.69	
12) trichlorofluoromethane												
	0.590	0.504	0.609	0.660	0.670	0.484	0.672	0.639	0.457	0.587	14.38	
13) vinyl bromide										0.000	-1.00	
14) ethyl ether												
	0.261	0.228	0.261	0.273		0.262	0.251	0.207		0.249	9.36	
15) pentane										0.000	-1.00	
16) 2-chloropropane												
	0.781	0.727	0.736	0.741	0.583	0.727	0.721	0.771		0.723	8.38	
17) acrolein												
	0.132	0.137	0.132		0.135		0.136	0.137		0.135	1.85	
18) 1,1-dichloroethene												
	0.481	0.441	0.452	0.458	0.298	0.457	0.443	0.442		0.434	13.02	
19) acetone												
	0.186	0.177	0.185	0.183		0.174	0.178			0.180	2.64	
20) allyl chloride												
	0.264	0.230	0.229	0.234		0.232	0.223	0.209		0.232	7.10	
21) acetonitrile												
	0.035	0.036	0.037	0.039		0.036	0.037	0.031		0.036	7.04	
22) iodomethane												
	0.985	0.809	0.896	0.931	0.939	0.678	0.923	0.897	0.886	0.883	10.25	
23) iso-butyl alcohol												

6.7.4

6

Initial Calibration Summary

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Job Number: JB75844

Sample: V4D2264-ICC2264

Account: LANGAN Langan Engineering & Environmental

Lab FileID: 4D50737.D

Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

	0.023	0.024	0.024	0.025		0.023	0.027	0.021		0.024	7.77
24)	carbon disulfide										
	1.819	1.929	1.714	1.700	1.698	1.545	1.679	1.673	1.710	1.719	6.14
25)	methylene chloride										
	0.567	0.528	0.536	0.541	0.546	0.452	0.536	0.537	0.536	0.531	5.92
26)	1-chloropropane										
	0.855	0.786	0.820	0.768	0.762	0.756	0.757	0.789	0.843	0.793	4.75
27)	methyl acetate										
	0.088	0.069	0.099	0.106		0.101	0.094			0.093	14.16
28)	methyl tert butyl ether										
	1.484	1.271	1.351	1.449	1.466	1.095	1.413	1.425	1.339	1.366	8.96
29)	trans-1,2-dichloroethene										
	0.525	0.412	0.482	0.495	0.491	0.400	0.481	0.483	0.475	0.472	8.48
30)	di-isopropyl ether										
	1.584	1.881	1.499	1.573	1.590	1.307	1.540	1.567	1.228	1.530	12.11
31)	ethyl tert-butyl ether										
	1.493	1.867	1.433	1.540	1.555	1.279	1.535	1.537	1.185	1.491	12.86
32)	2-butanone										
	0.071	0.056	0.074	0.078		0.074	0.072			0.071	10.81
33)	1,1-dichloroethane										
	0.979	0.749	0.890	0.915	0.916	0.676	0.890	0.909	0.889	0.868	10.85
34)	chloroprene										
	0.620	0.600	0.577	0.620	0.624	0.422	0.619	0.607	0.477	0.574	12.78
35)	acrylonitrile										
	0.247	0.207	0.225	0.245	0.256	0.199	0.236	0.244	0.219	0.231	8.51
36)	vinyl acetate										
	0.075	0.052	0.085	0.089		0.086	0.078			0.078	17.59
37)	ethyl acetate										
	0.080	0.069	0.086	0.091		0.085	0.086			0.083	9.42
38)	2,2-dichloropropane										
	0.674	0.632	0.632	0.626	0.500	0.610	0.623	0.634		0.616	8.18
39)	cis-1,2-dichloroethene										
	0.579	0.489	0.549	0.551	0.554	0.435	0.542	0.542	0.535	0.531	8.07
40)	propionitrile										
	0.101	0.092	0.101	0.104	0.099	0.097	0.100	0.098		0.099	3.45
41)	methyl acrylate										
	0.576	0.498	0.569	0.586		0.555	0.558	0.510		0.550	6.03
42)	bromochloromethane										
	0.303	0.278	0.292	0.296	0.193	0.288	0.290	0.265		0.276	12.86
43)	tetrahydrofuran										
	0.198	0.182	0.192	0.200	0.155	0.184	0.192	0.179		0.185	7.67
44)	chloroform										
	0.930	0.884	0.874	0.871	0.867	0.748	0.844	0.870	0.881	0.804	0.857
45)	dibromofluoromethane (s)										
	0.523	0.665	0.509	0.501	0.514	0.469	0.498	0.512	0.427	0.513	12.50
46)	1,2-dichloroethane-d4 (s)										
	0.539	0.606	0.522	0.526	0.531	0.438	0.510	0.537	0.427	0.515	10.50
47)	freon 113										
	0.302	0.303	0.319	0.311		0.316	0.298	0.229		0.297	10.46
48)	methacrylonitrile										
	0.376	0.337	0.378	0.383	0.303	0.360	0.369	0.317		0.353	8.57
49)	1,1,1-trichloroethane										
	0.696	0.647	0.657	0.667	0.464	0.651	0.647	0.631		0.632	11.21
50)	tert-amyl methyl ether										
	1.442	1.373	1.469	1.500	1.400	1.461	1.489	1.159		1.412	7.85
51)	I 1,4-difluorobenzene	-----ISTD-----									
52)	epichlorohydrin										
	0.052	0.051	0.054	0.058		0.054	0.060	0.041		0.053	11.32
53)	n-butyl alcohol										

6.7.4
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Initial Calibration Summary

Page 3 of 5

Job Number: JB75844

Sample: V4D2264-ICC2264

Account: LANGAN Langan Engineering & Environmental

Lab FileID: 4D50737.D

Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

	0.016	0.016	0.017	0.018	0.016	0.018	0.015	0.017	5.50
54)	cyclohexane								
	0.531	0.519	0.514	0.498	0.372	0.497	0.510	0.503	0.493
55)	tert amyl alcohol								10.15
								0.000	-1.00
56)	carbon tetrachloride								
	0.523	0.477	0.487	0.485	0.330	0.482	0.480	0.463	0.466
57)	1,1-dichloropropene								12.35
	0.558	0.417	0.514	0.523	0.519	0.386	0.517	0.509	0.495
58)	hexane								11.23
	0.394	0.338	0.398	0.413	0.392	0.283	0.397	0.395	0.370
59)	benzene								12.12
	1.636	1.331	1.509	1.523	1.517	1.254	1.502	1.515	1.558
60)	ISO-OCTANE								1.122
	1.102	1.020	1.115	1.118	1.050	0.779	1.059	1.094	0.924
61)	heptane								1.029
	0.252	0.241	0.263	0.250	0.247	0.249	0.201	0.243	8.21
62)	isopropyl acetate								
	0.815	0.767	0.847	0.869	0.958	0.830	0.886	0.668	0.830
63)	1,2-dichloroethane								10.33
	0.542	0.447	0.499	0.523	0.510	0.402	0.501	0.523	0.492
64)	trichloroethene								0.493
	0.432	0.339	0.388	0.403	0.401	0.332	0.401	0.393	0.383
65)	ethyl acrylate								0.386
								0.000	-1.00
66)	2-nitropropane								
	0.129	0.124	0.133	0.136	0.140	0.129	0.129	0.135	0.132
67)	2-chloroethyl vinyl ether								3.80
	0.315	0.293	0.331	0.343	0.325	0.323	0.342	0.237	0.314
68)	methyl methacrylate								11.13
	0.396	0.388	0.368	0.399	0.408	0.404	0.392	0.389	0.322
69)	1,2-dichloropropane								0.385
	0.456	0.421	0.438	0.437	0.348	0.430	0.435	0.407	0.421
70)	methylcyclohexane								7.80
	0.562	0.496	0.574	0.587	0.569	0.384	0.583	0.566	0.460
71)	tert-amyl ethyl ether								0.531
								0.000	-1.00
72)	dibromomethane								
	0.317	0.254	0.291	0.305	0.303	0.246	0.297	0.304	0.292
73)	bromodichloromethane								0.290
	0.578	0.487	0.540	0.555	0.556	0.517	0.550	0.558	0.551
74)	cis-1,3-dichloropropene								0.543
	0.711	0.625	0.646	0.692	0.692	0.641	0.686	0.683	0.658
75)	toluene-d8 (s)								0.670
	1.346	1.358	1.306	1.318	1.326	1.090	1.308	1.329	1.009
76)	4-methyl-2-pentanone								1.266
	0.214	0.204	0.211	0.217	0.251	0.206	0.207	0.219	0.216
77)	toluene								6.92
	0.968	0.802	0.889	0.911	0.911	0.770	0.908	0.900	0.883
78)	3-methyl-1-butanol							0.695	0.864
	0.014	0.014	0.015	0.016	0.015	0.016	0.013	0.015	6.35
79)	trans-1,3-dichloropropene								
	0.661	0.655	0.600	0.646	0.647	0.688	0.636	0.637	0.655
80)	ethyl methacrylate								0.647
	0.593	0.619	0.539	0.586	0.597	0.643	0.581	0.569	0.596
81)	1,1,2-trichloroethane								0.591
	0.384	0.401	0.356	0.363	0.363	0.425	0.353	0.362	0.404
82)	2-hexanone								0.379
	0.204	0.197	0.206	0.213	0.264	0.200	0.196	0.228	0.214
									10.72

Initial Calibration Summary

Page 4 of 5

Job Number: JB75844

Sample: V4D2264-ICC2264

Account: LANGAN Langan Engineering & Environmental

Lab FileID: 4D50737.D

Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

83)	I	chlorobenzene-d5	-----ISTD-----										
84)		tetrachloroethene											
		0.501	0.470	0.471	0.478	0.385	0.471	0.462	0.458		0.462	7.27	
85)		1,3-dichloropropane											
		0.746	0.754	0.697	0.728	0.722	0.784	0.696	0.719	0.727	0.730	3.81	
86)		butyl acetate											
		0.358	0.352	0.368	0.373		0.356	0.378	0.288		0.353	8.56	
87)		dibromochloromethane											
		0.570	0.582	0.521	0.547	0.548	0.645	0.532	0.545	0.577	0.563	6.52	
88)		1,2-dibromoethane											
		0.515	0.534	0.478	0.507	0.502	0.551	0.484	0.499	0.507	0.508	4.47	
89)		n-Butyl Ether											
											0.000	-1.00	
90)		chlorobenzene											
		1.279	1.223	1.176	1.213	1.202	1.285	1.182	1.195	1.232	1.049	1.204	5.46
91)		1,1,1,2-tetrachloroethane											
		0.482	0.484	0.442	0.454	0.454	0.499	0.450	0.448	0.478	0.466	4.31	
92)		ethylbenzene											
		2.075	1.795	1.942	1.964	1.962	1.843	1.939	1.947	1.945	1.651	1.906	6.11
93)		m,p-xylene											
		0.781	0.674	0.722	0.742	0.746	0.679	0.731	0.736	0.716	0.569	0.710	8.23
94)		o-xylene											
		0.789	0.729	0.713	0.760	0.759	0.724	0.750	0.751	0.728	0.745	3.18	
95)		styrene											
		1.320	1.315	1.226	1.296	1.310	1.331	1.291	1.276	1.262	1.030	1.266	6.99
96)		butyl acrylate											
											0.000	-1.00	
97)		bromoform											
		0.450	0.562	0.422	0.441	0.443	0.578	0.429	0.428	0.479	0.470	12.52	
98)	I	1,4-dichlorobenzene-d	-----ISTD-----										
99)		isopropylbenzene											
		3.771	3.180	3.476	3.557	3.598	3.254	3.542	3.458	3.546	2.845	3.423	7.70
100)		4-bromofluorobenzene (s)											
		1.124	1.096	1.071	1.117		1.071	1.078	0.942		1.071	5.70	
101)		bromobenzene											
		1.096	1.247	1.050	1.032	1.038	1.243	1.010	1.020	1.082	1.091	8.39	
102)		cyclohexanone											
		0.098	0.109	0.087	0.097			0.086	0.124		0.100	14.39	
103)		1,1,2,2-tetrachloroethane											
		1.580	1.553	1.445	1.474	2.352	1.366	1.453	1.869		1.636	19.96	
104)		trans-1,4-dichloro-2-butene											
		0.345	0.342	0.337	0.345		0.322	0.331	0.392		0.345	6.50	
105)		1,2,3-trichloropropane											
		0.339	0.333	0.318	0.324		0.299	0.315	0.399		0.333	9.56	
106)		n-propylbenzene											
		4.456	4.052	4.147	4.186	4.202	4.000	4.172	4.148	4.173	3.524	4.106	5.76
107)		2-chlorotoluene											
		0.971	0.904	0.915	0.925	0.925	0.957	0.914	0.911	0.942	0.929	2.41	
108)		4-chlorotoluene											
		2.847	3.167	2.684	2.679	2.679	2.940	2.633	2.662	2.812	2.427	2.753	7.29
109)		1,3,5-trimethylbenzene											
		3.149	3.025	2.934	3.001	3.035	2.821	3.034	2.969	2.914	2.395	2.928	7.05
110)		tert-butylbenzene											
		2.673	2.413	2.425	2.556	2.610	2.357	2.565	2.471	2.471	2.504	4.11	
111)		pentachloroethane											
		0.686	0.793	0.638	0.678	0.669	0.752	0.673	0.650	0.700	0.693	7.16	
112)		1,2,4-trimethylbenzene											
		3.132	3.188	2.943	3.034	3.081	2.966	3.034	2.956	2.959	2.489	2.978	6.39
113)		sec-butylbenzene											

Initial Calibration Summary

Page 5 of 5

Job Number: JB75844
Account: LANGAN Langan Engineering & Environmental
Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

Sample: V4D2264-ICC2264
Lab FileID: 4D50737.D

	4.212	3.655	3.950	4.036	4.050	3.648	4.032	3.955	3.974	3.150	3.866	7.91
114)	1,3-dichlorobenzene											
	2.027	1.945	1.902	1.921	2.231	1.894	1.891	2.013			1.978	5.82
115)	p-isopropyltoluene											
	3.390	3.056	3.154	3.226	3.317	2.882	3.281	3.199	3.145	2.457	3.111	8.68
116)	1,4-dichlorobenzene											
	2.069	2.568	1.918	1.920	1.944	2.360	1.922	1.921	2.120		2.082	11.24
117)	1,2-dichlorobenzene											
	2.025	2.666	1.915	1.911	1.938	2.329	1.899	1.893	2.046		2.069	12.69
118)	n-butylbenzene											
	1.850	1.653	1.715	1.798	1.799	1.578	1.793	1.736	1.696	1.296	1.691	9.48
119)	1,2-dibromo-3-chloropropane											
	0.283	0.286	0.266	0.276			0.262	0.264	0.338		0.282	9.38
120)	1,3,5-trichlorobenzene											
	1.689	1.939	1.603	1.662	1.702	1.672	1.716	1.607	1.649	1.363	1.660	8.48
121)	1,2,4-trichlorobenzene											
	1.551	1.446	1.566	1.615	1.681	1.592	1.510	1.517			1.560	4.60
122)	hexachlorobutadiene											
	0.744	0.713	0.740	0.747	0.658	0.748	0.707	0.729			0.723	4.22
123)	naphthalene											
	4.206	3.960	4.219	4.346	5.196	4.143	4.100	4.319			4.311	8.77
124)	1,2,3-trichlorobenzene											
	1.538	1.426	1.521	1.565	1.740	1.527	1.485	1.481			1.535	6.04
125)	hexachloroethane											
	0.757	0.685	0.741	0.770	0.668	0.782	0.715	0.697			0.727	5.75
126)	Benzyl chloride											
	2.208	2.261	2.394	2.434		2.328	2.472	1.824			2.274	9.65

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

M4D2264.M

Tue Aug 05 09:21:41 2014

RPT1

Initial Calibration Verification

Page 1 of 3

Job Number: JB75844

Sample: V4D2264-ICV2264

Account: LANGAN Langan Engineering & Environmental

Lab FileID: 4D50745.D

Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\data\4d50745.D

Vial: 17

Acq On : 4 Aug 2014 7:41 pm

Operator: PayalR

Sample : icv2264-50

Inst : MS4D

Misc : MS71470,V4D2264,5,,,,,1

Multiplr: 1.00

MS Integration Params: rteint5.p

Method : C:\msdchem\1\methods\M4D2264.M (RTE Integrator)

Title : SW-846 Method 8260C

Last Update : Tue Aug 05 09:18:13 2014

Response via : Multiple Level Calibration

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

Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1 I	Tert Butyl Alcohol-d9	1.000	1.000	0.0	101	0.00	7.00
2	1,4-dioxane	0.134	0.139	-3.7	99	0.00	11.28
3 M	tertiary butyl alcohol	1.375	1.421	-3.3	101	0.00	7.13
4 I	pentafluorobenzene	1.000	1.000	0.0	102	0.00	9.58
5	chlorodifluoromethane	0.447	0.466	-4.3	100	0.00	3.33
6	dichlorodifluoromethane	0.595	0.637	-7.1	97	0.00	3.33
7	chloromethane	0.733	0.768	-4.8	103	0.00	3.64
8	vinyl chloride	0.683	0.724	-6.0	103	0.00	3.89
9	acetaldehyde			-----NA-----			
10	bromomethane	0.445	0.477	-7.2	101	0.00	4.56
11	chloroethane	0.291	0.316	-8.6	104	0.00	4.76
12	trichlorofluoromethane	0.587	0.662	-12.8	102	0.00	5.32
13	vinyl bromide			-----NA-----			
14	ethyl ether	0.249	0.274	-10.0	107	0.00	5.78
15	pentane			-----NA-----			
16	2-chloropropane	0.723	0.760	-5.1	105	0.00	5.96
17	acrolein	0.135	0.134	0.7	103	0.00	6.00
18	1,1-dichloroethene	0.434	0.462	-6.5	104	0.00	6.22
19	acetone	0.180	0.195	-8.3	107	0.00	6.26
20	allyl chloride	0.232	0.237	-2.2	105	0.00	6.81
21	acetonitrile	0.036	0.038	-5.6	103	0.00	6.72
22	iodomethane	0.883	0.958	-8.5	105	0.00	6.49
23	iso-butyl alcohol	0.024	0.024	0.0	102	0.00	9.87
24	carbon disulfide	1.719	1.738	-1.1	104	0.00	6.64
25	methylene chloride	0.531	0.559	-5.3	105	0.00	7.01
26	1-chloropropane	0.793	0.794	-0.1	105	0.00	7.07
27	methyl acetate	0.093	0.099	-6.5	101	0.00	6.81
28	methyl tert butyl ether	1.366	2.434	4.2	100	0.00	7.45
29	trans-1,2-dichloroethene	0.472	0.502	-6.4	103	0.00	7.46
30	di-isopropyl ether	1.530	1.592	-4.1	103	0.00	8.19
31	ethyl tert-butyl ether	1.491	1.501	-0.7	99	0.00	8.71
32	2-butanone	0.071	0.077	-8.5	105	0.00	8.92
33 M	1,1-dichloroethane	0.868	0.939	-8.2	104	0.00	8.11
34	chloroprene	0.574	0.644	-12.2	106	0.00	8.26
35	acrylonitrile	0.231	0.256	-10.8	106	0.00	7.37
36	vinyl acetate	0.078	0.089	-14.1	106	0.00	8.15
37	ethyl acetate	0.083	0.086	-3.6	102	0.00	8.99
38	2,2-dichloropropane	0.616	0.601	2.4	97	0.00	8.96
39	cis-1,2-dichloroethene	0.531	0.573	-7.9	106	0.00	8.94
40	propionitrile	0.099	0.104	-5.1	105	0.00	8.99
41	methyl acrylate	0.550	0.589	-7.1	105	0.00	9.06

Initial Calibration Verification

Job Number: JB75844

Sample: V4D2264-ICV2264

Account: LANGAN Langan Engineering & Environmental

Lab FileID: 4D50745.D

Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

42	bromochloromethane	0.276	0.299	-8.3	104	0.00	9.27
43	tetrahydrofuran	0.185	0.196	-5.9	104	0.00	9.34
44	chloroform	0.857	0.900	-5.0	105	0.00	9.35
45 S	dibromofluoromethane (s)	0.513	0.524	-2.1	106	0.00	9.57
46 S	1,2-dichloroethane-d4 (s)	0.515	0.544	-5.6	105	0.00	10.01
47	freon 113	0.297	0.318	-7.1	101	0.00	6.24
48	methacrylonitrile	0.353	0.386	-9.3	104	0.00	9.22
49	1,1,1-trichloroethane	0.632	0.677	-7.1	105	0.00	9.65
50	tert-amyl methyl ether	1.412	1.434	-1.6	99	0.00	10.22
51 I	1,4-difluorobenzene	1.000	1.000	0.0	102	0.00	10.54
52	epichlorohydrin	0.053	0.053	0.0	100	0.00	11.85
53	n-butyl alcohol	0.017	0.017	0.0	101	0.00	10.67
54 M	cyclohexane	0.493	0.504	-2.2	100	0.00	9.75
55	tert amyl alcohol			-----NA-----			
56	carbon tetrachloride	0.466	0.492	-5.6	103	0.00	9.87
57	1,1-dichloropropene	0.495	0.537	-8.5	105	0.00	9.85
58	hexane	0.370	0.461	-24.6#	114	0.00	7.89
59 M	benzene	1.447	1.576	-8.9	105	0.00	10.12
60	ISO-OCTANE	1.029	1.076	-4.6	98	0.00	10.21
61	heptane	0.243	0.230	5.3	89	0.00	10.40
62	isopropyl acetate	0.830	0.834	-0.5	100	0.00	10.10
63	1,2-dichloroethane	0.493	0.532	-7.9	104	0.00	10.11
64	trichloroethene	0.386	0.414	-7.3	105	0.00	10.89
65	ethyl acrylate			-----NA-----			
66	2-nitropropane	0.132	0.132	0.0	101	0.00	11.69
67	2-chloroethyl vinyl ether	0.314	0.328	-4.5	101	0.00	11.75
68	methyl methacrylate	0.385	0.409	-6.2	104	0.00	11.21
69	1,2-dichloropropane	0.421	0.450	-6.9	105	0.00	11.16
70	methylcyclohexane	0.531	0.555	-4.5	96	0.00	11.16
71 M	tert-amyl ethyl ether			-----NA-----			
72	dibromomethane	0.290	0.313	-7.9	105	0.00	11.30
73	bromodichloromethane	0.543	0.565	-4.1	104	0.00	11.45
74	cis-1,3-dichloropropene	0.670	0.699	-4.3	103	0.00	11.97
75 S	toluene-d8 (s)	1.266	1.360	-7.4	105	0.00	12.30
76	4-methyl-2-pentanone	0.216	0.216	0.0	104	0.00	12.10
77	toluene	0.864	0.927	-7.3	104	0.00	12.38
78	3-methyl-1-butanol	0.015	0.015	0.0	103	0.00	12.12
79	trans-1,3-dichloropropene	0.647	0.652	-0.8	103	0.00	12.57
80	ethyl methacrylate	0.591	0.594	-0.5	103	0.00	12.62
81	1,1,2-trichloroethane	0.379	0.372	1.8	104	0.00	12.79
82	2-hexanone	0.214	0.210	1.9	104	0.00	13.02
83 I	chlorobenzene-d5	1.000	1.000	0.0	103	0.00	13.91
84	tetrachloroethene	0.462	0.478	-3.5	104	0.00	13.01
85	1,3-dichloropropane	0.730	0.740	-1.4	104	0.00	12.99
86	butyl acetate	0.353	0.356	-0.8	99	0.00	13.13
87	dibromochloromethane	0.563	0.557	1.1	105	0.00	13.26
88	1,2-dibromoethane	0.508	0.511	-0.6	103	0.00	13.42
89	n-Butyl Ether			-----NA-----			
90	chlorobenzene	1.204	1.233	-2.4	104	0.00	13.95
91	1,1,1,2-tetrachloroethane	0.466	0.462	0.9	104	0.00	14.01
92	ethylbenzene	1.906	2.015	-5.7	105	0.00	14.03
93	m,p-xylene	0.710	0.760	-7.0	105	0.00	14.15
94	o-xylene	0.745	0.766	-2.8	103	0.00	14.60
95	styrene	1.266	1.320	-4.3	105	0.00	14.60
96	butyl acrylate			-----NA-----			
97	bromoform	0.470	0.441	6.2	102	0.00	14.84
98 I	1,4-dichlorobenzene-d4	1.000	1.000	0.0	100	0.00	16.34

6.7.5

6

Initial Calibration Verification

Page 3 of 3

Job Number: JB75844**Sample:** V4D2264-ICV2264**Account:** LANGAN Langan Engineering & Environmental**Lab FileID:** 4D50745.D**Project:** Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

99	isopropylbenzene	3.423	3.655	-6.8	103	0.00	14.97
100 S	4-bromofluorobenzene (s)	1.071	1.136	-6.1	106	0.00	15.15
101	bromobenzene	1.091	1.070	1.9	104	0.00	15.34
102	cyclohexanone	0.100	0.071	29.0#	82	0.00	15.09
103	1,1,2,2-tetrachloroethane	1.636	1.510	7.7	104	0.00	15.25
104	trans-1,4-dichloro-2-bute	0.345	0.333	3.5	99	0.00	15.30
105	1,2,3-trichloropropane	0.333	0.326	2.1	102	0.00	15.32
106	n-propylbenzene	4.106	4.365	-6.3	104	0.00	15.40
107	2-chlorotoluene	0.929	0.956	-2.9	103	0.00	15.52
108	4-chlorotoluene	2.753	2.767	-0.5	103	0.00	15.63
109	1,3,5-trimethylbenzene	2.928	3.104	-6.0	103	0.00	15.55
110	tert-butylbenzene	2.504	2.640	-5.4	103	0.00	15.91
111	pentachloroethane	0.693	0.694	-0.1	102	0.00	15.96
112	1,2,4-trimethylbenzene	2.978	3.140	-5.4	103	0.00	15.95
113	sec-butylbenzene	3.866	4.152	-7.4	103	0.00	16.13
114	1,3-dichlorobenzene	1.978	1.969	0.5	104	0.00	16.28
115	p-isopropyltoluene	3.111	3.366	-8.2	104	0.00	16.25
116	1,4-dichlorobenzene	2.082	1.991	4.4	104	0.00	16.37
117	1,2-dichlorobenzene	2.069	1.976	4.5	103	0.00	16.74
118	n-butylbenzene	1.691	1.829	-8.2	102	0.00	16.66
119	1,2-dibromo-3-chloropropa	0.282	0.274	2.8	103	0.00	17.47
120 m	1,3,5-trichlorobenzene	1.660	1.689	-1.7	102	0.00	17.67
121	1,2,4-trichlorobenzene	1.560	1.597	-2.4	102	0.00	18.24
122	hexachlorobutadiene	0.723	0.732	-1.2	99	0.00	18.38
123	naphthalene	4.311	4.331	-0.5	103	0.00	18.50
124	1,2,3-trichlorobenzene	1.535	1.565	-2.0	103	0.00	18.73
125	hexachloroethane	0.727	0.772	-6.2	104	0.00	17.02
126	Benzyl chloride	2.274	2.064	9.2	86	0.00	16.48

(#) = Out of Range
4d50737.D M4D2264.M

SPCC's out = 0 CCC's out = 0
Tue Aug 05 09:21:09 2014 RPT1

Continuing Calibration Summary

Page 1 of 3

Job Number: JB75844

Sample: V4D2303-CC2264

Account: LANGAN Langan Engineering & Environmental

Lab FileID: 4D51728.D

Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\data\4d51728.D

Vial: 2

Acq On : 8 Sep 2014 9:30 am

Operator: PayalR

Sample : cc2264-20

Inst : MS4D

Misc : MS73134,V4D2303,5,,,,,1

Multiplr: 1.00

MS Integration Params: rteint5.p

Method : C:\MSDCHEM\1\METHODS\M4D2264.M (RTE Integrator)

Title : SW-846 Method 8260B/8260C

Last Update : Fri Aug 22 16:59:22 2014

Response via : Multiple Level Calibration

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

Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1 I	Tert Butyl Alcohol-d9	1.000	1.000	0.0	91	0.00	7.00
2	1,4-dioxane	0.134	0.144	-7.5	86	0.00	11.29
3 M	tertiary butyl alcohol	1.375	1.524	-10.8	89	0.00	7.13
4 I	pentafluorobenzene	1.000	1.000	0.0	95	0.00	9.59
5	chlorodifluoromethane	0.447	0.464	-3.8	99	0.01	3.34
6	dichlorodifluoromethane	0.595	0.594	0.2	88	0.00	3.32
7	chloromethane	0.733	0.598	18.4	76	0.00	3.64
8	vinyl chloride	0.683	0.582	14.8	80	0.02	3.91
9	acetaldehyde			-----NA-----			
10	bromomethane	0.445	0.416	6.5	81	0.02	4.58
11	chloroethane	0.291	0.258	11.3	80	0.00	4.77
12	trichlorofluoromethane	0.587	0.703	-19.8	104	0.01	5.33
13	vinyl bromide			-----NA-----			
14	ethyl ether	0.249	0.211	15.3	80	0.00	5.79
15	pentane			-----NA-----			
16	2-chloropropane	0.723	0.652	9.8	86	0.00	5.97
17	acrolein	0.135	0.113	16.3	79	0.00	6.01
18	1,1-dichloroethene	0.434	0.374	13.8	80	0.00	6.23
19	acetone	0.180	0.164	8.9	87	0.01	6.27
20	allyl chloride	0.232	0.202	12.9	86	0.00	6.82
21	acetonitrile	0.036	0.040	-11.1	101	0.01	6.73
22	iodomethane	0.883	0.790	10.5	84	0.00	6.50
23	iso-butyl alcohol	0.024	0.025	-4.2	90	0.00	9.87
24	carbon disulfide	1.719	1.406	18.2	80	0.00	6.64
25	methylene chloride	0.531	0.463	12.8	82	0.00	7.02
26	1-chloropropane	0.793	0.692	12.7	83	0.00	7.08
27	methyl acetate	0.093	0.093	0.0	94	0.01	6.83
28	methyl tert butyl ether	1.366	1.233	9.7	82	0.00	7.46
29	trans-1,2-dichloroethene	0.472	0.421	10.8	83	0.00	7.47
30	di-isopropyl ether	1.530	1.523	0.5	92	0.00	8.19
31	ethyl tert-butyl ether	1.491	1.425	4.4	88	0.00	8.71
32	2-butanone	0.071	0.061	14.1	81	0.00	8.93
33 M	1,1-dichloroethane	0.868	0.786	9.4	82	0.00	8.11
34	chloroprene	0.574	0.593	-3.3	93	0.00	8.26
35	acrylonitrile	0.231	0.212	8.2	82	0.00	7.38
36	vinyl acetate	0.078	0.075	3.8	91	0.00	8.15
37	ethyl acetate	0.083	0.084	-1.2	94	0.00	8.99
38	2,2-dichloropropane	0.616	0.622	-1.0	95	0.00	8.97
39	cis-1,2-dichloroethene	0.531	0.478	10.0	84	0.00	8.95
40	propionitrile	0.099	0.090	9.1	85	0.00	9.00
41	methyl acrylate	0.550	0.474	13.8	81	0.00	9.06

Continuing Calibration Summary

Page 2 of 3

Job Number: JB75844

Sample: V4D2303-CC2264

Account: LANGAN Langan Engineering & Environmental

Lab FileID: 4D51728.D

Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

42	bromochloromethane	0.276	0.258	6.5	85	0.00	9.27
43	tetrahydrofuran	0.185	0.166	10.3	82	0.00	9.34
44	chloroform	0.857	0.806	6.0	88	0.00	9.36
45 S	dibromofluoromethane (s)	0.513	0.450	12.3	83	0.00	9.57
46 S	1,2-dichloroethane-d4 (s)	0.515	0.480	6.8	85	0.00	10.02
47	freon 113	0.297	0.328	-10.4	104	0.00	6.24
48	methacrylonitrile	0.353	0.325	7.9	84	0.00	9.22
49	1,1,1-trichloroethane	0.632	0.625	1.1	92	0.00	9.65
50	tert-amyl methyl ether	1.412	1.435	-1.6	91	0.00	10.22
51 I	1,4-difluorobenzene	1.000	1.000	0.0	88	0.00	10.54
52	epichlorohydrin	0.053	0.058	-9.4	86	0.00	11.85
53	n-butyl alcohol	0.017	0.018	-5.9	89	0.00	10.68
54 M	cyclohexane	0.493	0.468	5.1	81	0.00	9.75
55	tert amyl alcohol			-----NA-----			
56	carbon tetrachloride	0.466	0.497	-6.7	91	0.00	9.88
57	1,1-dichloropropene	0.495	0.501	-1.2	87	0.00	9.85
58	hexane	0.370	0.457	-23.5#	102	0.00	7.90
59 M	benzene	1.447	1.444	0.2	84	0.00	10.12
60	ISO-OCTANE	1.029	1.391	-35.2#	112	0.00	10.21
61	heptane	0.243	0.292	-20.2#	103	0.00	10.40
62	isopropyl acetate	0.830	0.897	-8.1	89	0.00	10.11
63	1,2-dichloroethane	0.493	0.528	-7.1	89	0.00	10.12
64	trichloroethene	0.386	0.383	0.8	86	0.00	10.89
65	ethyl acrylate			-----NA-----			
66	2-nitropropane	0.132	0.126	4.5	86	0.00	11.70
67	2-chloroethyl vinyl ether	0.314	0.341	-8.6	88	0.00	11.76
68	methyl methacrylate	0.385	0.374	2.9	85	0.00	11.22
69	1,2-dichloropropane	0.421	0.404	4.0	82	0.00	11.16
70	methylcyclohexane	0.531	0.606	-14.1	95	0.00	11.16
71 M	tert-amyl ethyl ether			-----NA-----			
72	dibromomethane	0.290	0.293	-1.0	85	0.00	11.30
73	bromodichloromethane	0.543	0.548	-0.9	87	0.00	11.46
74	cis-1,3-dichloropropene	0.670	0.642	4.2	83	0.00	11.97
75 S	toluene-d8 (s)	1.266	1.242	1.9	82	0.00	12.30
76	4-methyl-2-pentanone	0.216	0.200	7.4	85	0.00	12.10
77	toluene	0.864	0.861	0.3	84	0.00	12.38
78	3-methyl-1-butanol	0.015	0.016	-6.7	89	0.00	12.12
79	trans-1,3-dichloropropene	0.647	0.617	4.6	85	0.00	12.57
80	ethyl methacrylate	0.591	0.514	13.0	80	0.00	12.62
81	1,1,2-trichloroethane	0.379	0.345	9.0	84	0.00	12.79
82	2-hexanone	0.214	0.193	9.8	87	0.00	13.02
83 I	chlorobenzene-d5	1.000	1.000	0.0	88	0.00	13.91
84	tetrachloroethene	0.462	0.473	-2.4	91	0.00	13.01
85	1,3-dichloropropane	0.730	0.679	7.0	83	0.00	12.99
86	butyl acetate	0.353	0.369	-4.5	86	0.00	13.13
87	dibromochloromethane	0.563	0.548	2.7	89	0.00	13.26
88	1,2-dibromoethane	0.508	0.479	5.7	85	0.00	13.42
89	n-Butyl Ether			-----NA-----			
90	chlorobenzene	1.204	1.166	3.2	86	0.00	13.95
91	1,1,1,2-tetrachloroethane	0.466	0.451	3.2	89	0.00	14.01
92	ethylbenzene	1.906	1.890	0.8	86	0.00	14.03
93	m,p-xylene	0.710	0.718	-1.1	86	0.00	14.15
94	o-xylene	0.745	0.719	3.5	85	0.00	14.60
95	styrene	1.266	1.204	4.9	84	0.00	14.60
96	butyl acrylate			-----NA-----			
97	bromoform	0.470	0.442	6.0	91	0.00	14.84
98 I	1,4-dichlorobenzene-d4	1.000	1.000	0.0	90	0.00	16.34

6.7.6

6

Continuing Calibration Summary

Page 3 of 3

Job Number: JB75844

Sample: V4D2303-CC2264

Account: LANGAN Langan Engineering & Environmental

Lab FileID: 4D51728.D

Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

99	isopropylbenzene	3.423	3.383	1.2	88	0.00	14.97
100 S	4-bromofluorobenzene (s)	1.071	0.952	11.1	79	0.00	15.15
101	bromobenzene	1.091	1.004	8.0	89	0.00	15.35
102	cyclohexanone	0.100	0.075	25.0#	78	0.00	15.09
103	1,1,2,2-tetrachloroethane	1.636	1.401	14.4	87	0.00	15.25
104	trans-1,4-dichloro-2-bute	0.345	0.324	6.1	88	0.00	15.30
105	1,2,3-trichloropropane	0.333	0.320	3.9	91	0.00	15.32
106	n-propylbenzene	4.106	4.013	2.3	87	0.00	15.40
107	2-chlorotoluene	0.929	0.881	5.2	87	0.00	15.52
108	4-chlorotoluene	2.753	2.576	6.4	87	0.00	15.63
109	1,3,5-trimethylbenzene	2.928	2.895	1.1	88	0.00	15.55
110	tert-butylbenzene	2.504	2.471	1.3	90	0.00	15.91
111	pentachloroethane	0.693	0.690	0.4	96	0.00	15.96
112	1,2,4-trimethylbenzene	2.978	2.911	2.2	89	0.00	15.95
113	sec-butylbenzene	3.866	3.894	-0.7	89	0.00	16.13
114	1,3-dichlorobenzene	1.978	1.907	3.6	91	0.00	16.28
115	p-isopropyltoluene	3.111	3.170	-1.9	89	0.00	16.25
116	1,4-dichlorobenzene	2.082	1.928	7.4	90	0.00	16.37
117	1,2-dichlorobenzene	2.069	1.895	8.4	90	0.00	16.74
118	n-butylbenzene	1.691	1.687	0.2	88	0.00	16.66
119	1,2-dibromo-3-chloropropa	0.282	0.271	3.9	93	0.00	17.47
120 m	1,3,5-trichlorobenzene	1.660	1.655	0.3	93	0.00	17.67
121	1,2,4-trichlorobenzene	1.560	1.500	3.8	89	0.00	18.24
122	hexachlorobutadiene	0.723	0.781	-8.0	100	0.00	18.38
123	naphthalene	4.311	4.004	7.1	88	0.00	18.50
124	1,2,3-trichlorobenzene	1.535	1.476	3.8	90	0.00	18.73
125	hexachloroethane	0.727	0.709	2.5	89	0.00	17.01
126	Benzyl chloride	2.274	2.614	-15.0	95	0.00	16.48

(#) = Out of Range
4d50736.D M4D2264.M

SPCC's out = 0 CCC's out = 0
Mon Sep 08 16:00:24 2014 RPT1

GC/MS Volatiles

Raw Data

7

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\
 Data File : 3C113337.D
 Acq On : 8 Sep 2014 4:37 pm
 Operator : prashans
 Sample : JB75844-1
 Misc : MS73404,V3C5123,5.0,,100,5,1
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 09 09:49:00 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M3C5053.M
 Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
 QLast Update : Tue Aug 26 17:19:34 2014
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Tert Butyl Alcohol-d9	7.31	65	78710	500.00	ug/L	0.00
5) pentafluorobenzene	9.53	168	281057	50.00	ug/L	-0.01
54) 1,4-difluorobenzene	10.44	114	321245	50.00	ug/L	-0.01
83) chlorobenzene-d5	13.58	117	287376	50.00	ug/L	0.00
99) 1,4-dichlorobenzene-d4	15.87	152	141611	50.00	ug/L	0.00

System Monitoring Compounds

45) dibromofluoromethane (s)	9.57	113	98404	47.62	ug/L	-0.01
Spiked Amount	50.000	Range	59 - 130	Recovery	=	95.24%
46) 1,2-dichloroethane-d4 (s)	9.99	65	105360	49.67	ug/L	-0.01
Spiked Amount	50.000	Range	65 - 123	Recovery	=	99.34%
75) toluene-d8 (s)	12.08	98	430000	55.01	ug/L	0.00
Spiked Amount	50.000	Range	80 - 124	Recovery	=	110.02%
101) 4-bromofluorobenzene (s)	14.72	95	150504	48.85	ug/L	0.00
Spiked Amount	50.000	Range	71 - 132	Recovery	=	97.70%

Target Compounds

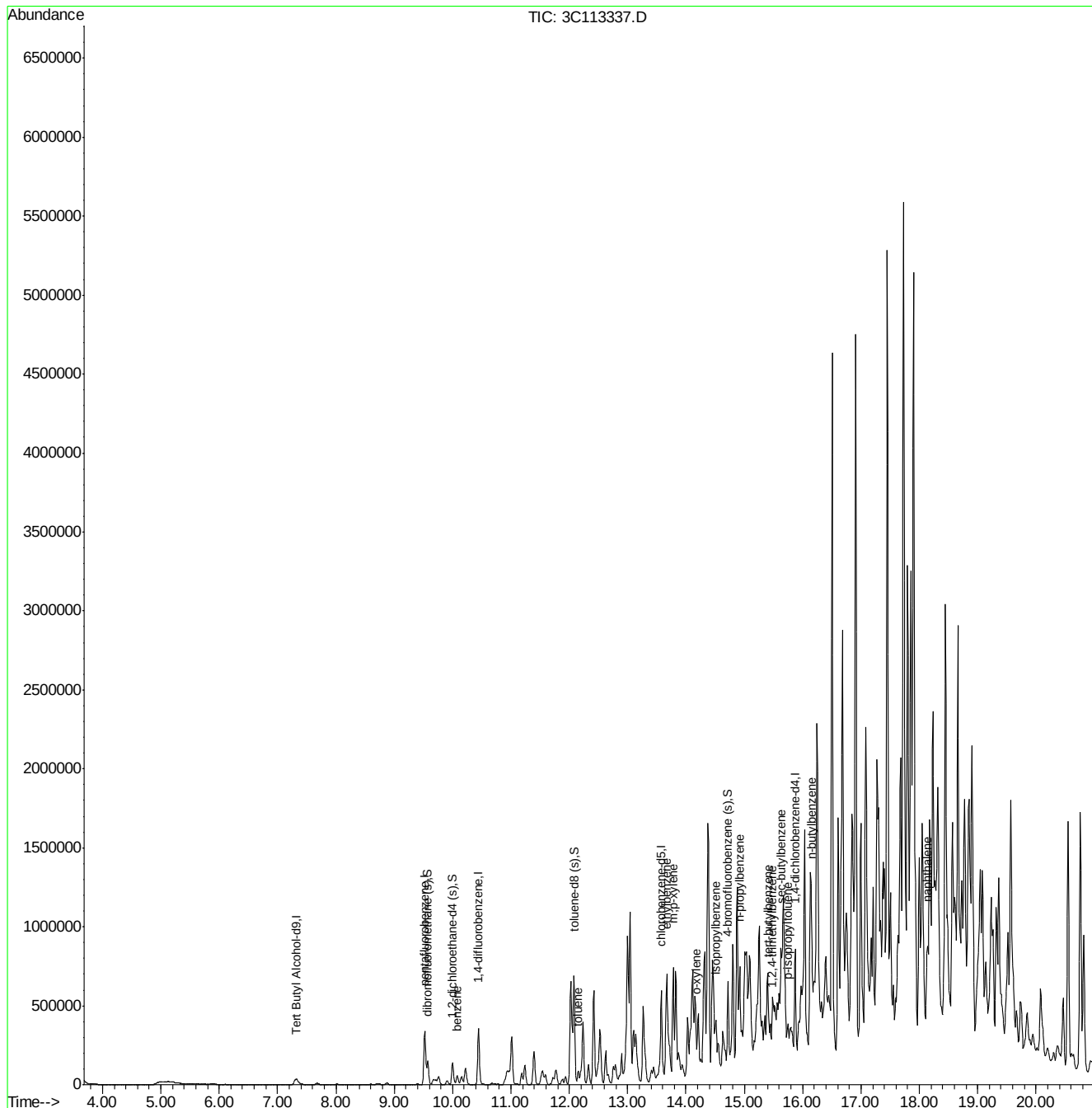
						Qvalue
60) benzene	10.07	78	2279	0.24	ug/L	94
77) toluene	12.16	91	2133	0.22	ug/L	85
92) ethylbenzene	13.67	91	8424	0.70	ug/L #	1
93) m,p-xylene	13.77	106	3230	0.72	ug/L	77
94) o-xylene	14.18	91	9741	1.02	ug/L	97
100) isopropylbenzene	14.52	105	109707	9.04	ug/L	97
108) n-propylbenzene	14.92	91	249829	18.42	ug/L	99
113) tert-butylbenzene	15.42	119	43932	5.01	ug/L	91
115) 1,2,4-trimethylbenzene	15.46	105	6131	0.63	ug/L	90
116) sec-butylbenzene	15.63	105	239709	18.42	ug/L	99
118) p-isopropyltoluene	15.75	119	4847	0.44	ug/L	94
122) n-butylbenzene	16.15	92	139669	26.34	ug/L	90
128) naphthalene	18.14	128	24009	3.54	ug/L #	50

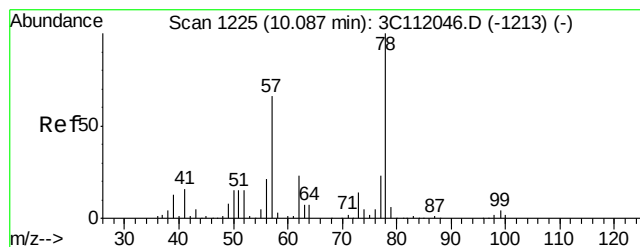
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\
Data File : 3C113337.D
Acq On : 8 Sep 2014 4:37 pm
Operator : prashans
Sample : JB75844-1
Misc : MS73404,V3C5123,5.0,,100,5,1
ALS Vial : 8 Sample Multiplier: 1

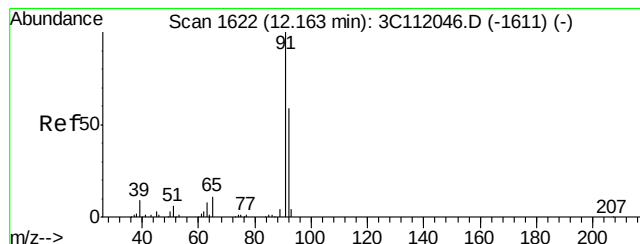
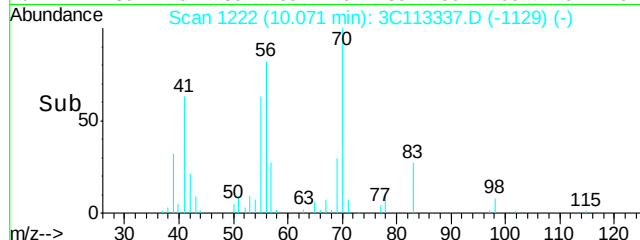
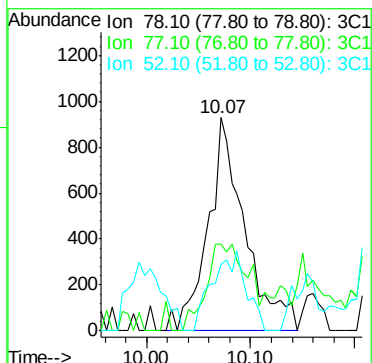
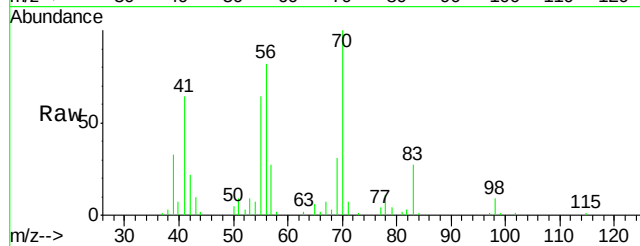
Quant Time: Sep 09 09:49:00 2014
Quant Method : C:\MSDCHEM\1\METHODS\M3C5053.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Tue Aug 26 17:19:34 2014
Response via : Initial Calibration





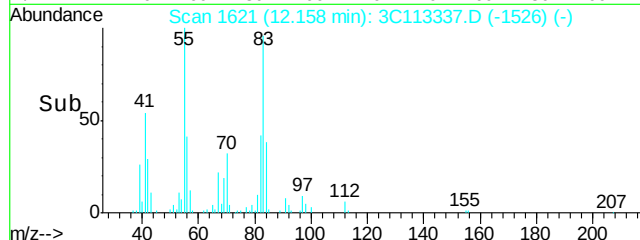
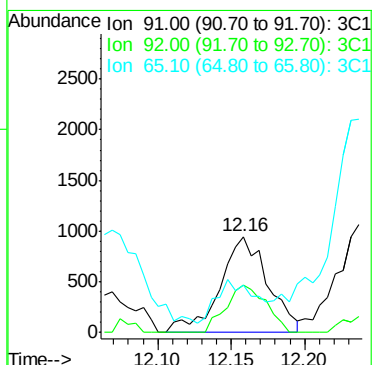
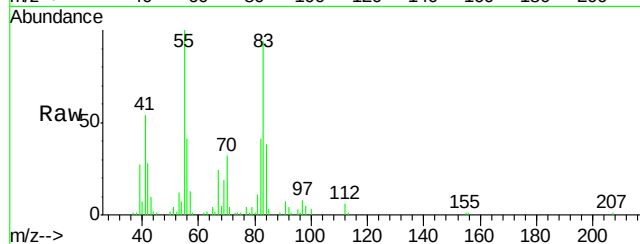
#60
benzene
Concen: 0.24 ug/L
RT: 10.07 min Scan# 1222
Delta R.T. -0.02 min
Lab File: 3C113337.D
Acq: 8 Sep 2014 4:37 pm

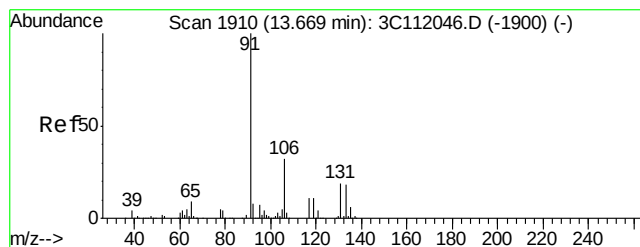
Tgt Ion	Ratio	Lower	Upper
78	100		
77	27.1	0.0	53.0
52	16.3	0.0	45.4



#77
toluene
Concen: 0.22 ug/L
RT: 12.16 min Scan# 1621
Delta R.T. -0.00 min
Lab File: 3C113337.D
Acq: 8 Sep 2014 4:37 pm

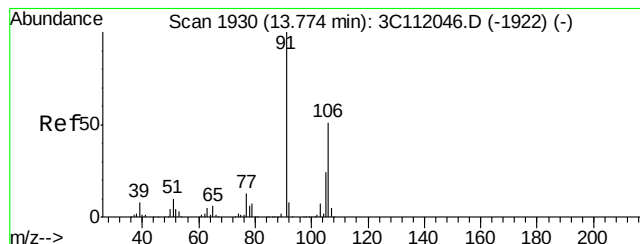
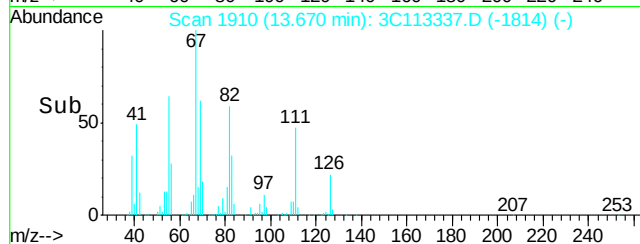
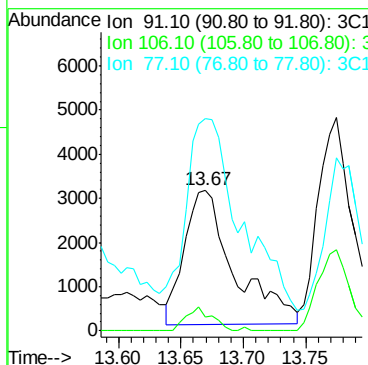
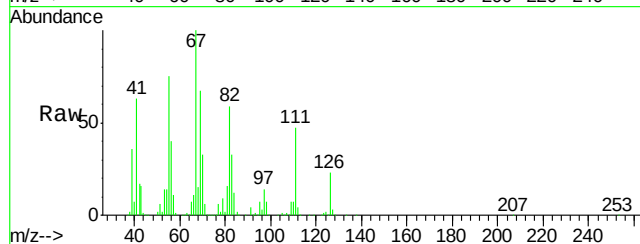
Tgt Ion	Ratio	Lower	Upper
91	100		
92	49.2	29.4	89.4
65	19.7	0.0	41.0





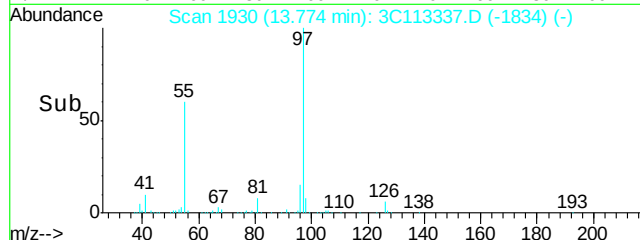
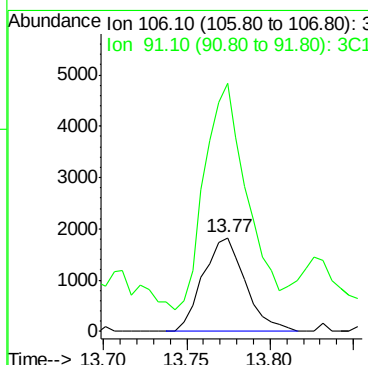
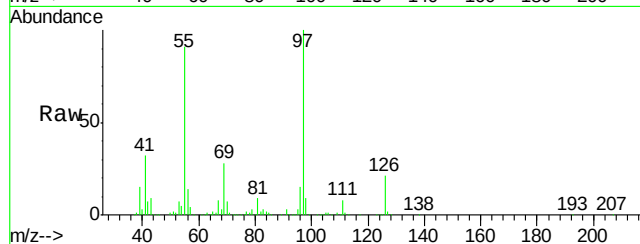
#92
ethylbenzene
Concen: 0.70 ug/L
RT: 13.67 min Scan# 1910
Delta R.T. 0.00 min
Lab File: 3C113337.D
Acq: 8 Sep 2014 4:37 pm

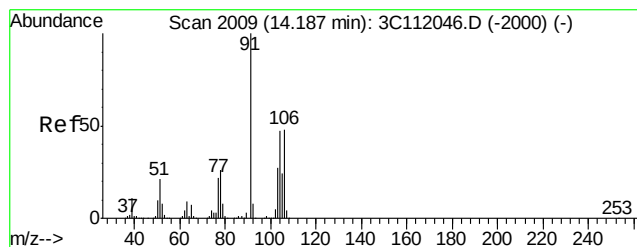
Tgt Ion	Ratio	Lower	Upper
91	100		
106	11.7	2.0	62.0
77	157.1	0.0	38.4#



#93
m,p-xylene
Concen: 0.72 ug/L
RT: 13.77 min Scan# 1930
Delta R.T. 0.00 min
Lab File: 3C113337.D
Acq: 8 Sep 2014 4:37 pm

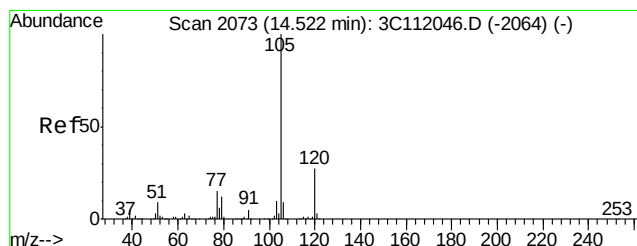
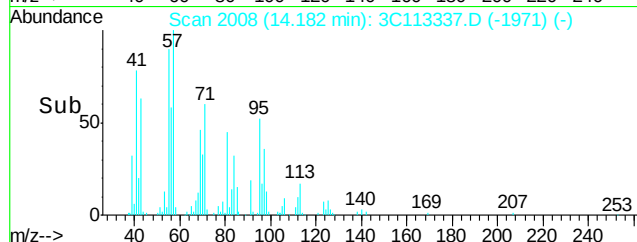
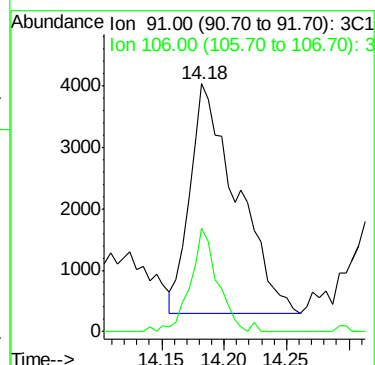
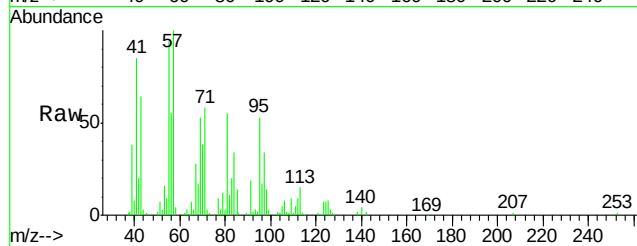
Tgt Ion	Ratio	Lower	Upper
106	100		
91	232.5	138.5	257.1





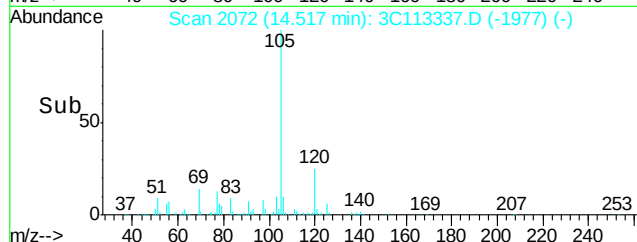
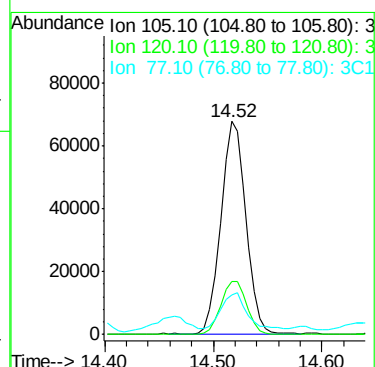
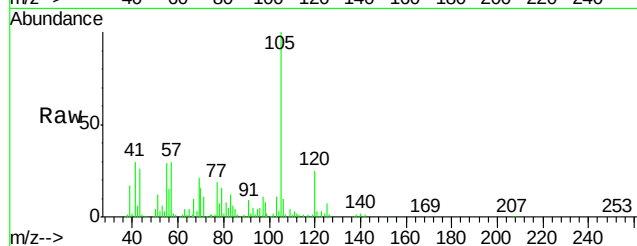
#94
o-xylene
Concen: 1.02 ug/L
RT: 14.18 min Scan# 2008
Delta R.T. -0.00 min
Lab File: 3C113337.D
Acq: 8 Sep 2014 4:37 pm

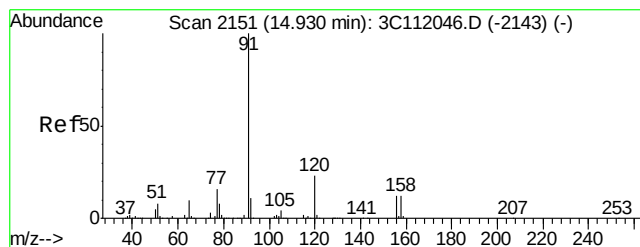
Tgt Ion: 91 Resp: 9741
Ion Ratio Lower Upper
91 100
106 45.4 33.3 61.9



#100
isopropylbenzene
Concen: 9.04 ug/L
RT: 14.52 min Scan# 2072
Delta R.T. -0.00 min
Lab File: 3C113337.D
Acq: 8 Sep 2014 4:37 pm

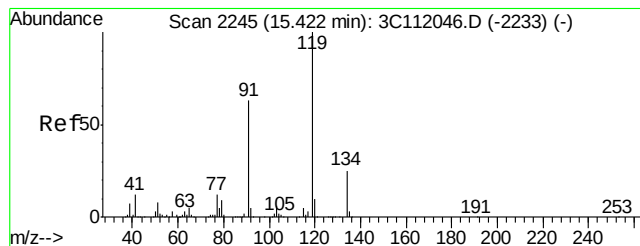
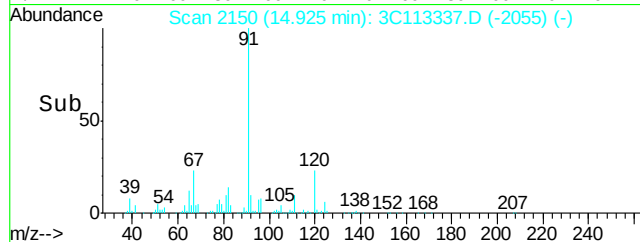
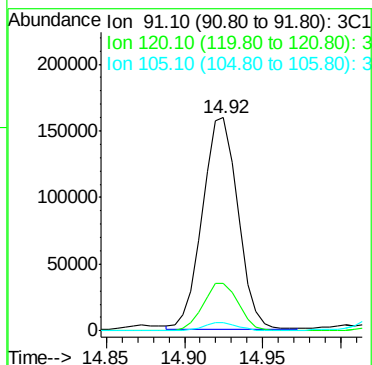
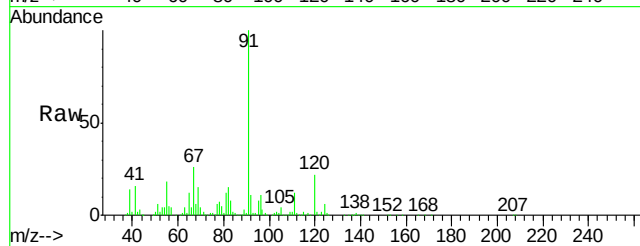
Tgt Ion: 105 Resp: 109707
Ion Ratio Lower Upper
105 100
120 24.7 0.0 57.1
77 15.1 0.0 45.1





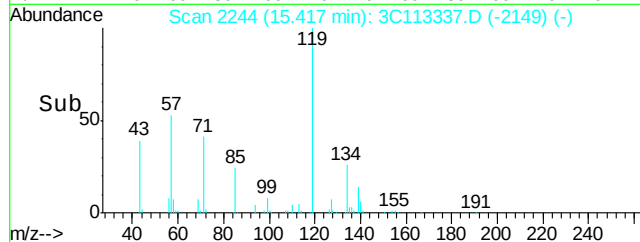
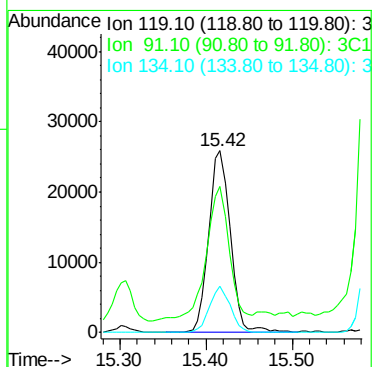
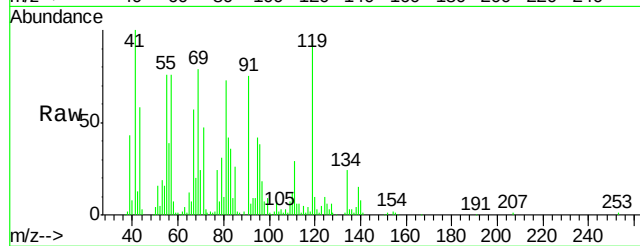
#108
n-propylbenzene
Concen: 18.42 ug/L
RT: 14.92 min Scan# 2150
Delta R.T. -0.00 min
Lab File: 3C113337.D
Acq: 8 Sep 2014 4:37 pm

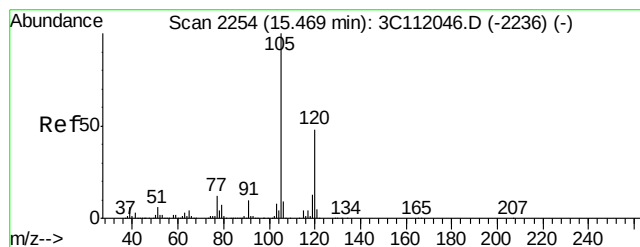
Tgt Ion	Ratio	Lower	Upper
91	100		
120	22.7	0.0	53.3
105	3.6	0.0	33.8



#113
tert-butylbenzene
Concen: 5.01 ug/L
RT: 15.42 min Scan# 2244
Delta R.T. -0.00 min
Lab File: 3C113337.D
Acq: 8 Sep 2014 4:37 pm

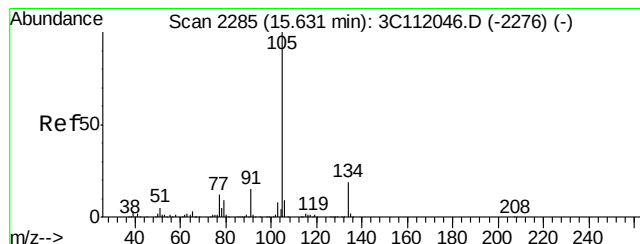
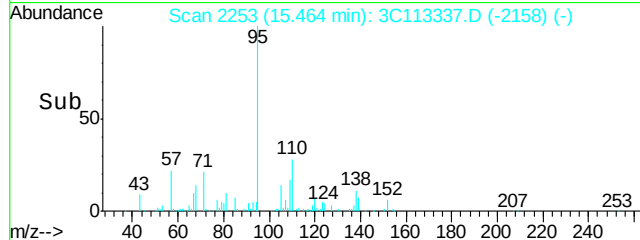
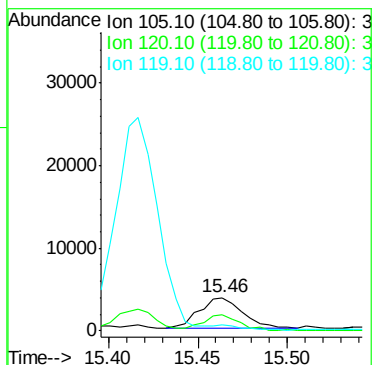
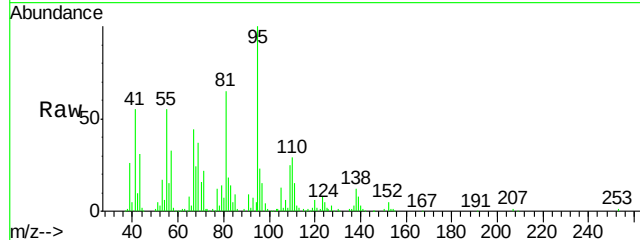
Tgt Ion	Ratio	Lower	Upper
119	100		
91	72.3	32.9	92.9
134	25.6	0.0	54.6





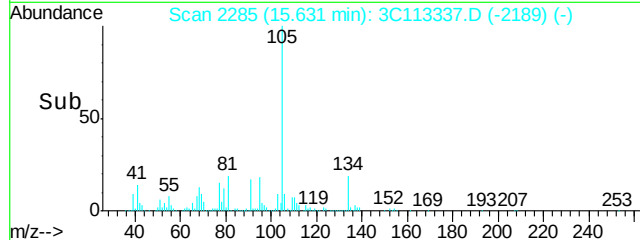
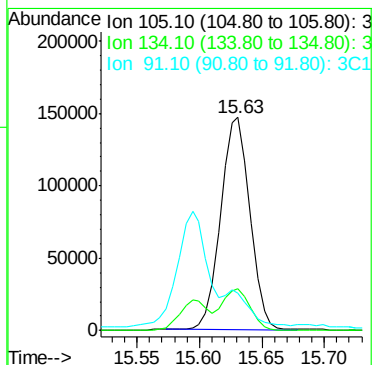
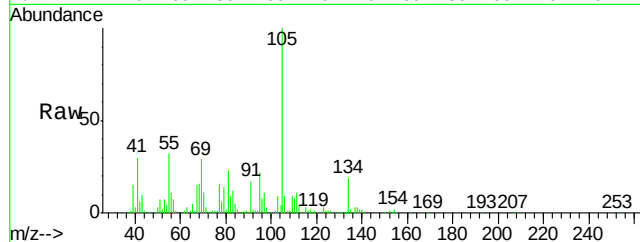
#115
1,2,4-trimethylbenzene
Concen: 0.63 ug/L
RT: 15.46 min Scan# 2253
Delta R.T. -0.00 min
Lab File: 3C113337.D
Acq: 8 Sep 2014 4:37 pm

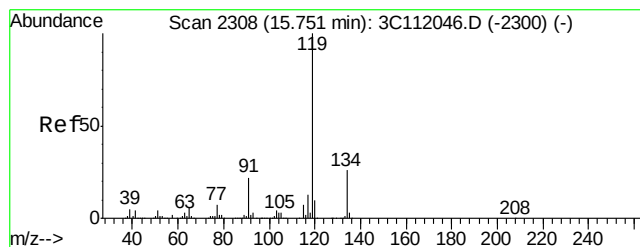
Tgt Ion	Ratio	Lower	Upper
105	100		
120	54.6	17.5	77.5
119	16.2	0.0	42.8



#116
sec-butylbenzene
Concen: 18.42 ug/L
RT: 15.63 min Scan# 2285
Delta R.T. 0.00 min
Lab File: 3C113337.D
Acq: 8 Sep 2014 4:37 pm

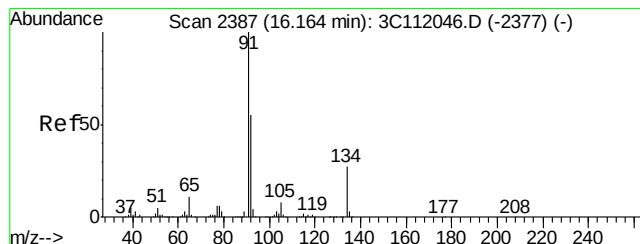
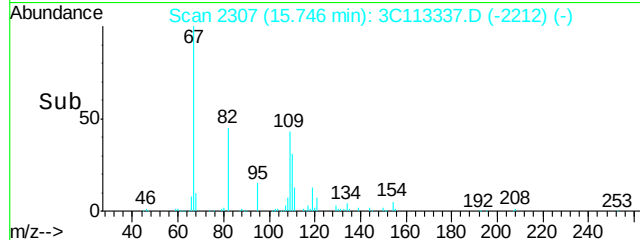
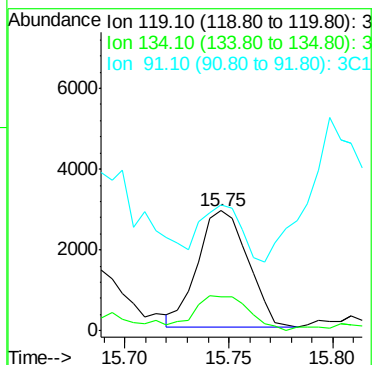
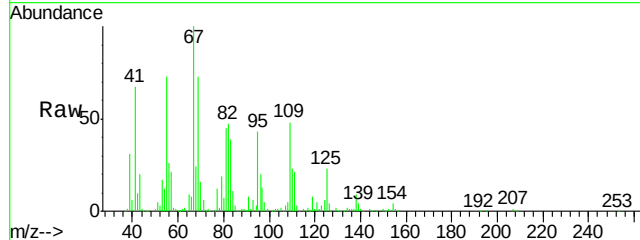
Tgt Ion	Ratio	Lower	Upper
105	100		
134	19.2	0.0	49.4
91	14.8	0.0	45.3





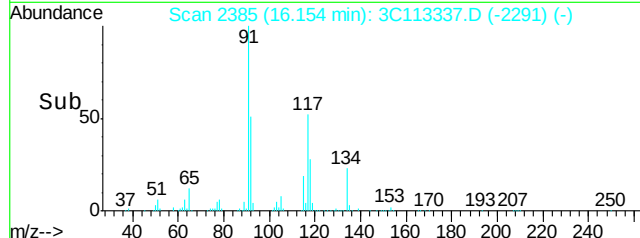
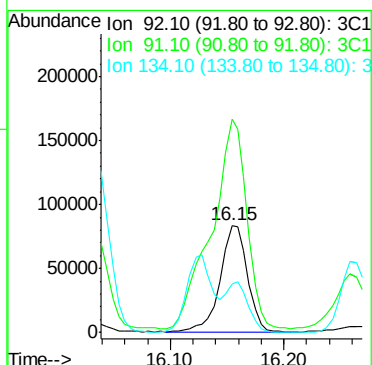
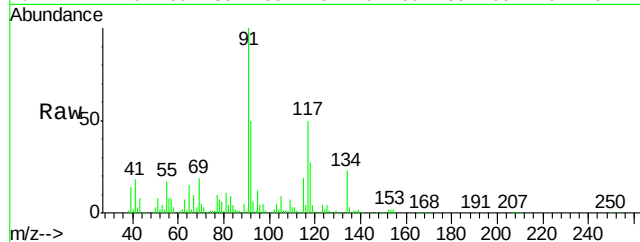
#118
p-isopropyltoluene
Concen: 0.44 ug/L
RT: 15.75 min Scan# 2307
Delta R.T. -0.00 min
Lab File: 3C113337.D
Acq: 8 Sep 2014 4:37 pm

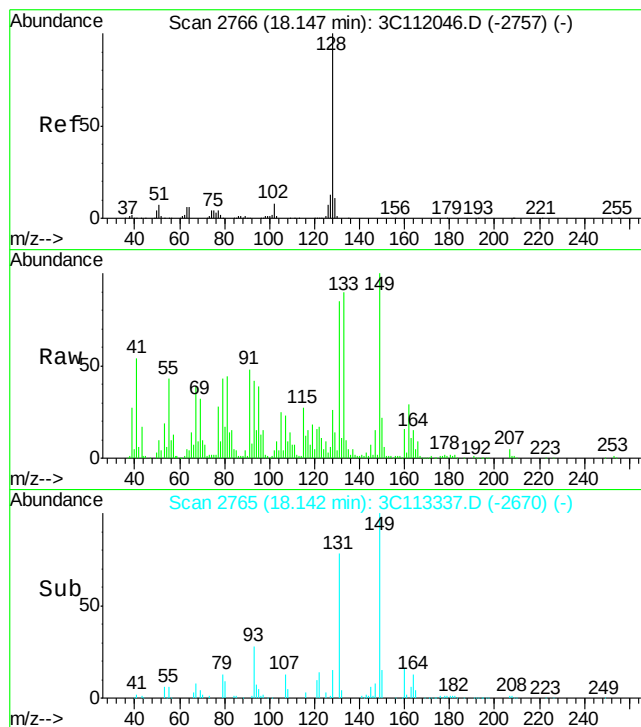
Tgt Ion:	119	Resp:	4847
Ion Ratio	Lower	Upper	
119	100		
134	26.3	0.0	56.5
91	28.4	0.0	52.2



#122
n-butylbenzene
Concen: 26.34 ug/L
RT: 16.15 min Scan# 2385
Delta R.T. -0.01 min
Lab File: 3C113337.D
Acq: 8 Sep 2014 4:37 pm

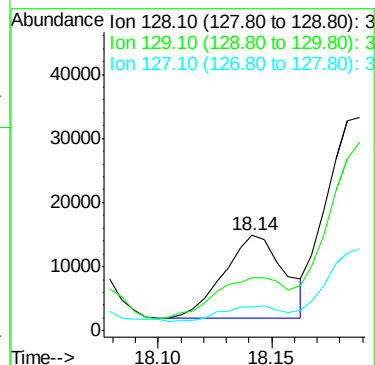
Tgt Ion:	92	Resp:	139669
Ion Ratio	Lower	Upper	
92	100		
91	196.0	150.4	210.4
134	45.8	19.1	79.1





#128
naphthalene
Concen: 3.54 ug/L
RT: 18.14 min Scan# 2765
Delta R.T. -0.00 min
Lab File: 3C113337.D
Acq: 8 Sep 2014 4:37 pm

Tgt Ion:	128	Resp:	24009
Ion Ratio	Lower	Upper	
128	100		
129	47.2	0.0	40.7#
127	18.0	0.0	43.3



Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\
 Data File : 3C113336.D
 Acq On : 8 Sep 2014 3:45 pm
 Operator : prashans
 Sample : JB75844-2
 Misc : MS73404,V3C5123,5.3,,100,5,1
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 09 09:47:26 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M3C5053.M
 Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
 QLast Update : Tue Aug 26 17:19:34 2014
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Tert Butyl Alcohol-d9	7.31	65	64776	500.00	ug/L	0.01
5) pentafluorobenzene	9.53	168	242480	50.00	ug/L	-0.01
54) 1,4-difluorobenzene	10.45	114	282610	50.00	ug/L	0.00
83) chlorobenzene-d5	13.58	117	255468	50.00	ug/L	0.00
99) 1,4-dichlorobenzene-d4	15.87	152	126293	50.00	ug/L	0.00

System Monitoring Compounds

45) dibromofluoromethane (s)	9.58	113	87789	49.24	ug/L	0.00
Spiked Amount	50.000	Range	59 - 130	Recovery	=	98.48%
46) 1,2-dichloroethane-d4 (s)	10.00	65	94374	51.57	ug/L	0.00
Spiked Amount	50.000	Range	65 - 123	Recovery	=	103.14%
75) toluene-d8 (s)	12.08	98	379703	55.22	ug/L	0.00
Spiked Amount	50.000	Range	80 - 124	Recovery	=	110.44%
101) 4-bromofluorobenzene (s)	14.72	95	133218	48.49	ug/L	0.00
Spiked Amount	50.000	Range	71 - 132	Recovery	=	96.98%

Target Compounds

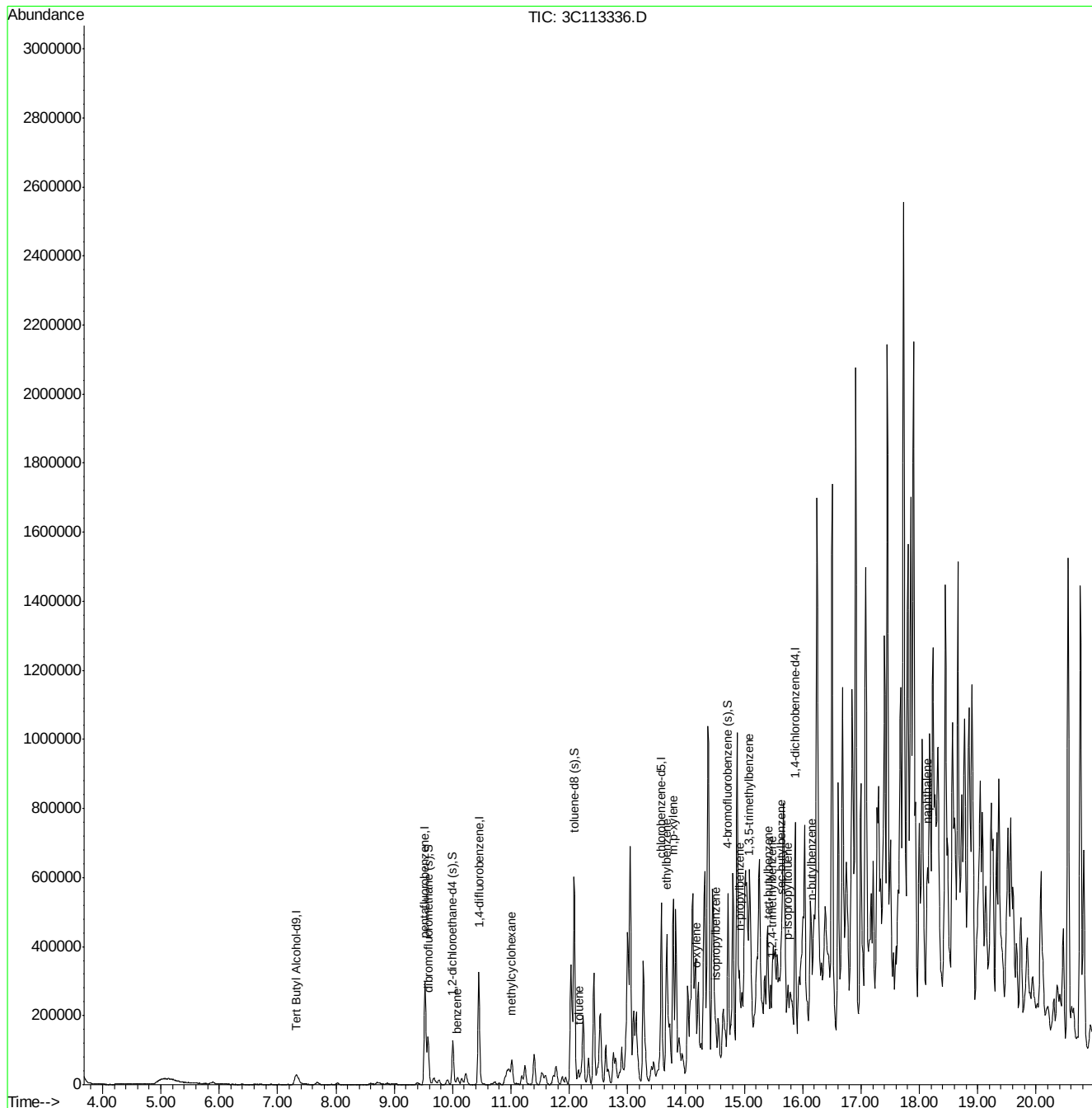
						Qvalue
60) benzene	10.07	78	1860	0.22	ug/L	87
71) methylcyclohexane	11.01	83	32262	9.32	ug/L	91
77) toluene	12.16	91	2751	0.32	ug/L	89
92) ethylbenzene	13.66	91	4513m	0.42	ug/L	
93) m,p-xylene	13.77	106	5446	1.36	ug/L	86
94) o-xylene	14.18	91	4611	0.54	ug/L	85
100) isopropylbenzene	14.52	105	6477	0.60	ug/L	97
108) n-propylbenzene	14.92	91	18574	1.54	ug/L	94
112) 1,3,5-trimethylbenzene	15.08	105	3554	0.40	ug/L	79
113) tert-butylbenzene	15.42	119	19365	2.47	ug/L	95
115) 1,2,4-trimethylbenzene	15.46	105	8376	0.96	ug/L	94
116) sec-butylbenzene	15.63	105	40847	3.52	ug/L	96
118) p-isopropyltoluene	15.75	119	4720	0.48	ug/L	89
122) n-butylbenzene	16.16	92	19889	4.21	ug/L #	82
128) naphthalene	18.14	128	18752	3.10	ug/L #	54

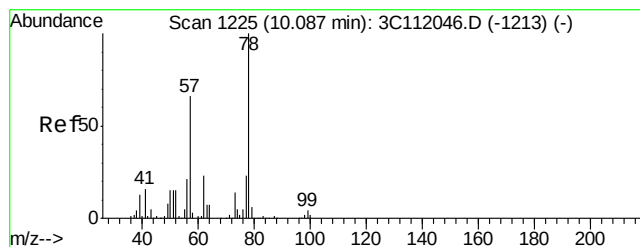
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\
Data File : 3C113336.D
Acq On : 8 Sep 2014 3:45 pm
Operator : prashans
Sample : JB75844-2
Misc : MS73404,V3C5123,5.3,,100,5,1
ALS Vial : 7 Sample Multiplier: 1

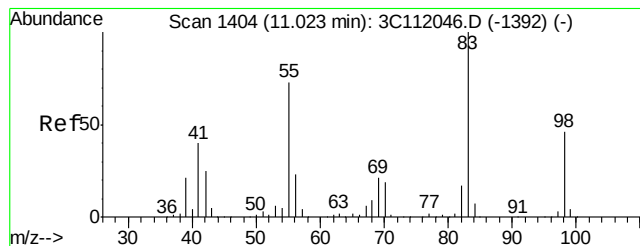
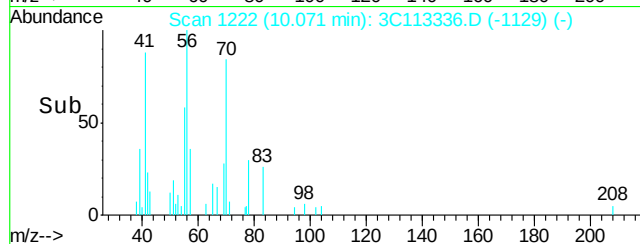
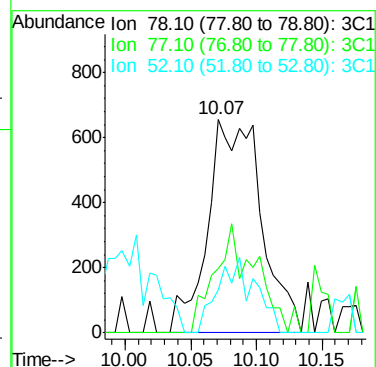
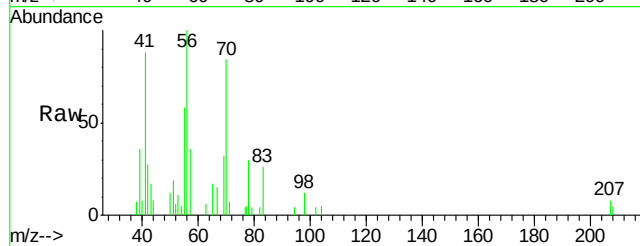
Quant Time: Sep 09 09:47:26 2014
Quant Method : C:\MSDCHEM\1\METHODS\M3C5053.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Tue Aug 26 17:19:34 2014
Response via : Initial Calibration





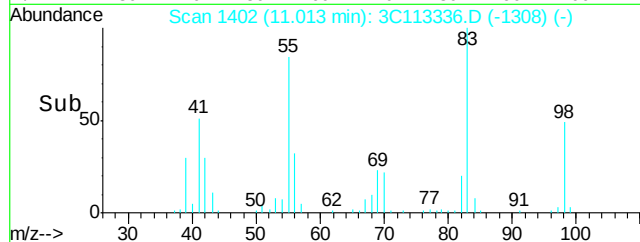
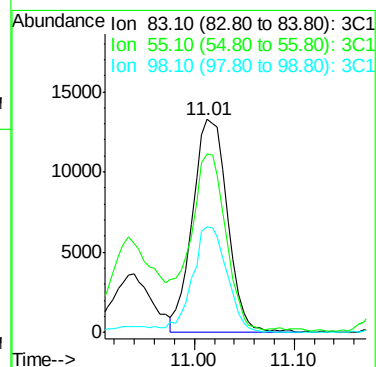
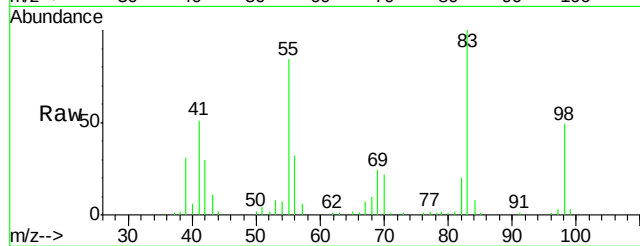
#60
benzene
Concen: 0.22 ug/L
RT: 10.07 min Scan# 1222
Delta R.T. -0.02 min
Lab File: 3C113336.D
Acq: 8 Sep 2014 3:45 pm

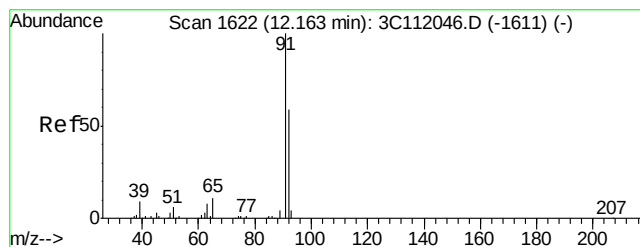
Tgt Ion	Ratio	Lower	Upper
78	100		
77	29.9	0.0	53.0
52	20.1	0.0	45.4



#71
methylcyclohexane
Concen: 9.32 ug/L
RT: 11.01 min Scan# 1402
Delta R.T. -0.01 min
Lab File: 3C113336.D
Acq: 8 Sep 2014 3:45 pm

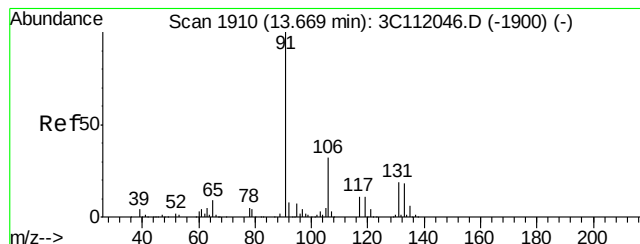
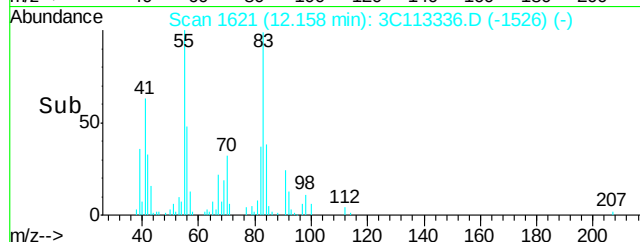
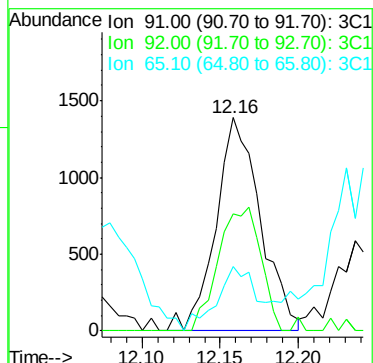
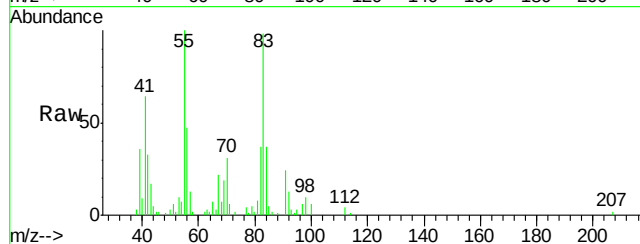
Tgt Ion	Ratio	Lower	Upper
83	100		
55	82.0	43.3	103.3
98	49.4	15.6	75.6





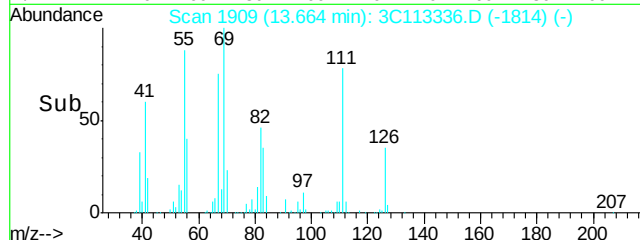
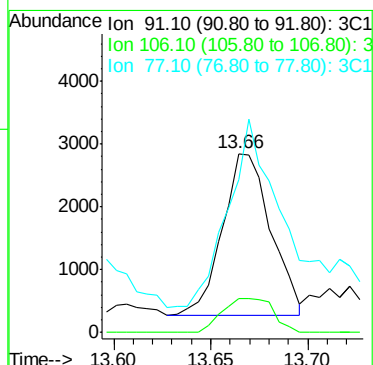
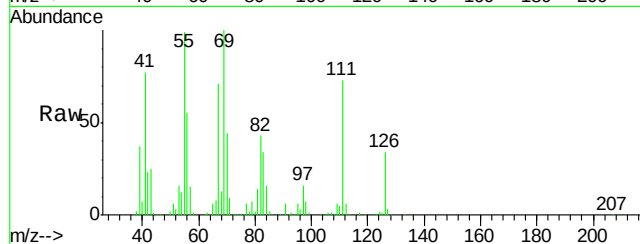
#77
toluene
Concen: 0.32 ug/L
RT: 12.16 min Scan# 1621
Delta R.T. -0.01 min
Lab File: 3C113336.D
Acq: 8 Sep 2014 3:45 pm

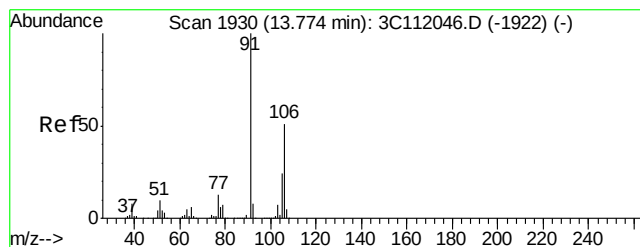
Tgt Ion:	91	Resp:	2751
Ion Ratio	Lower	Upper	
91	100		
92	54.8	29.4	89.4
65	24.4	0.0	41.0



#92
ethylbenzene
Concen: 0.42 ug/L m
RT: 13.66 min Scan# 1909
Delta R.T. -0.01 min
Lab File: 3C113336.D
Acq: 8 Sep 2014 3:45 pm

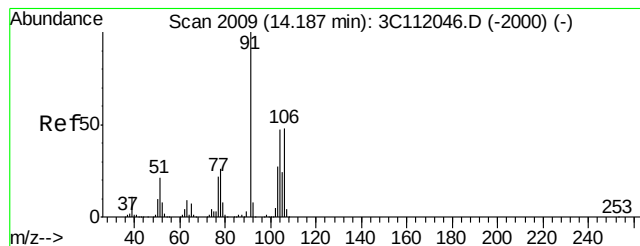
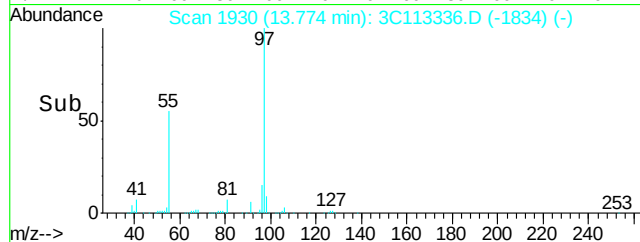
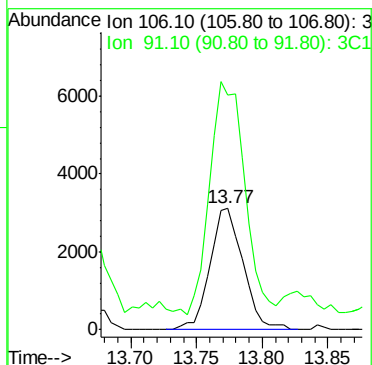
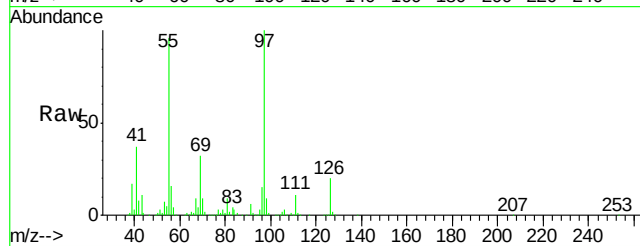
Tgt Ion:	91	Resp:	4513
Ion Ratio	Lower	Upper	
91	100		
106	18.8	2.0	62.0
77	85.2	0.0	38.4#





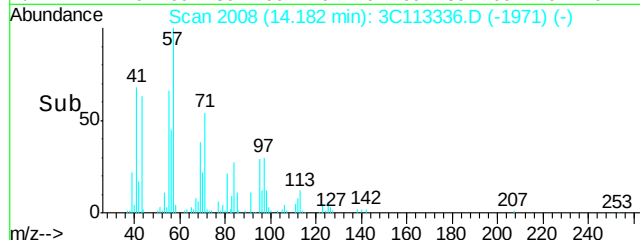
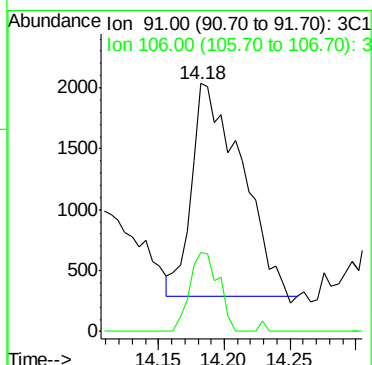
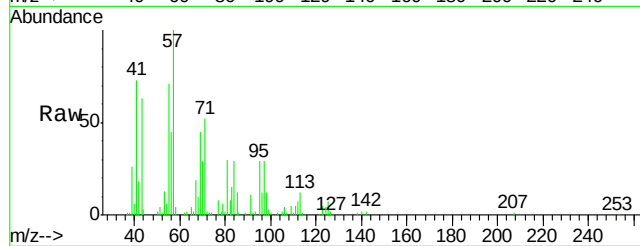
#93
m,p-xylene
Concen: 1.36 ug/L
RT: 13.77 min Scan# 1930
Delta R.T. 0.00 min
Lab File: 3C113336.D
Acq: 8 Sep 2014 3:45 pm

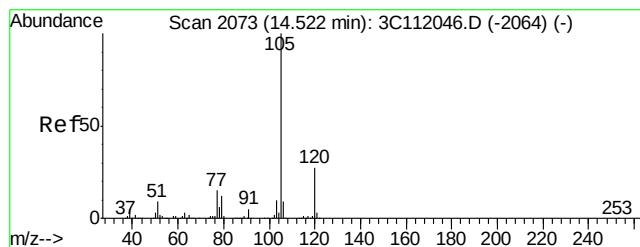
Tgt Ion: 106 Resp: 5446
Ion Ratio Lower Upper
106 100
91 176.1 138.5 257.1



#94
o-xylene
Concen: 0.54 ug/L
RT: 14.18 min Scan# 2008
Delta R.T. -0.01 min
Lab File: 3C113336.D
Acq: 8 Sep 2014 3:45 pm

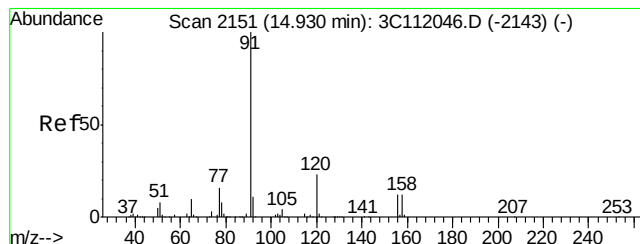
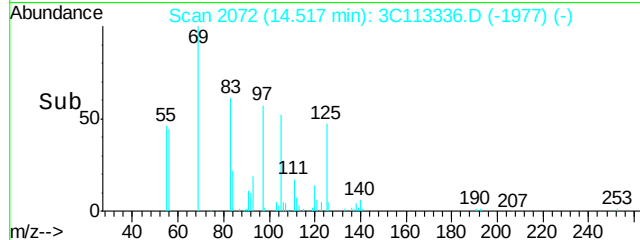
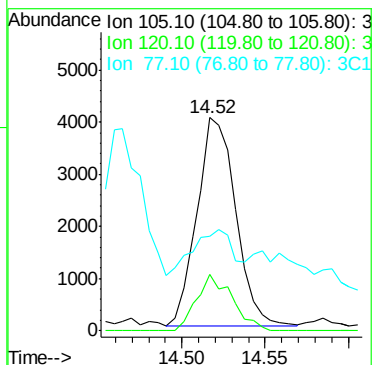
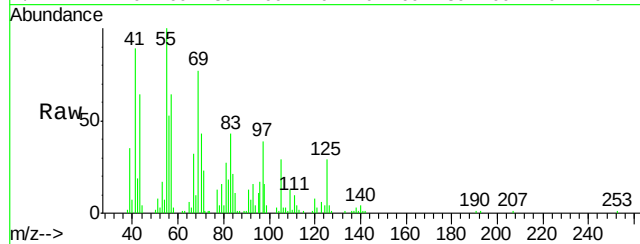
Tgt Ion: 91 Resp: 4611
Ion Ratio Lower Upper
91 100
106 37.3 33.3 61.9





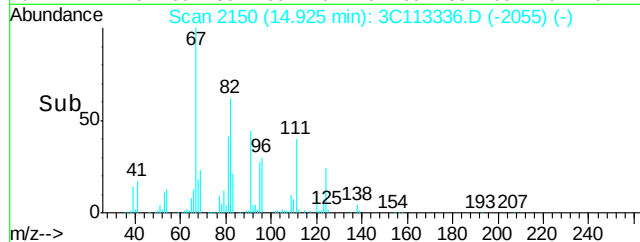
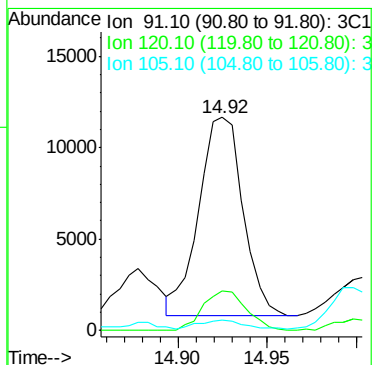
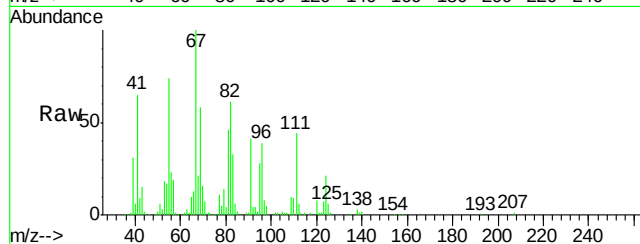
#100
isopropylbenzene
Concen: 0.60 ug/L
RT: 14.52 min Scan# 2072
Delta R.T. -0.01 min
Lab File: 3C113336.D
Acq: 8 Sep 2014 3:45 pm

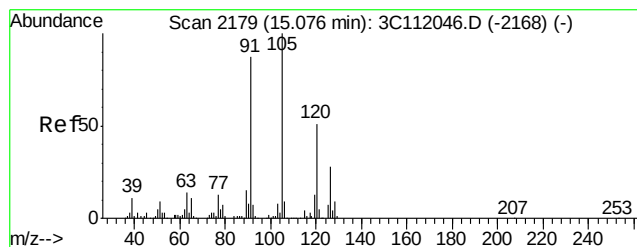
Tgt Ion	Ratio	Lower	Upper
105	100		
120	27.3	0.0	57.1
77	18.4	0.0	45.1



#108
n-propylbenzene
Concen: 1.54 ug/L
RT: 14.92 min Scan# 2150
Delta R.T. -0.01 min
Lab File: 3C113336.D
Acq: 8 Sep 2014 3:45 pm

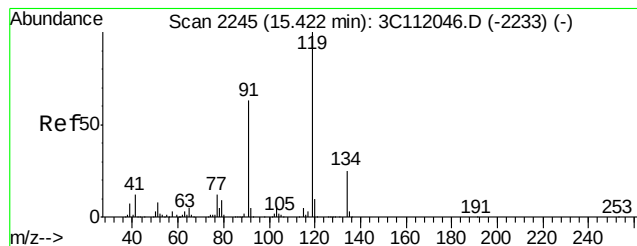
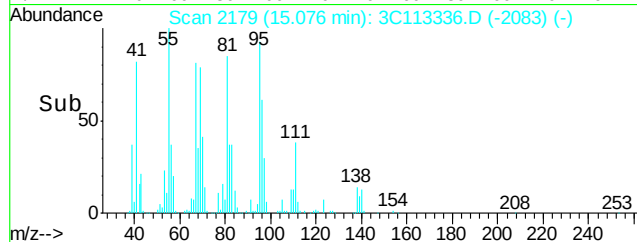
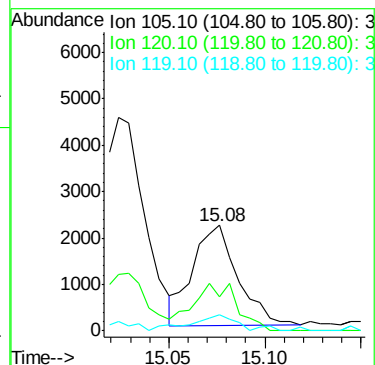
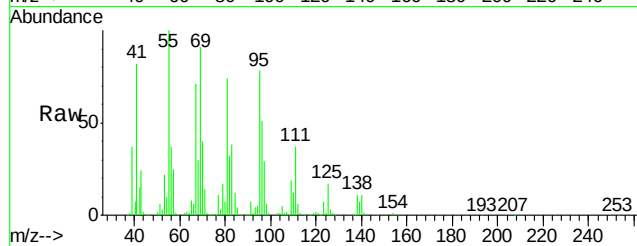
Tgt Ion	Ratio	Lower	Upper
91	100		
120	19.8	0.0	53.3
105	3.9	0.0	33.8





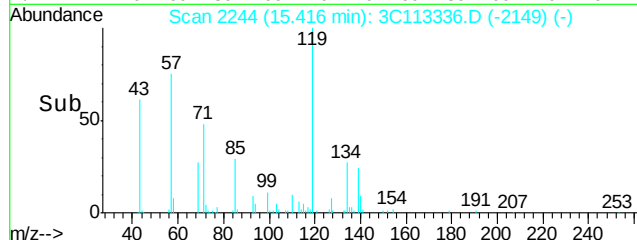
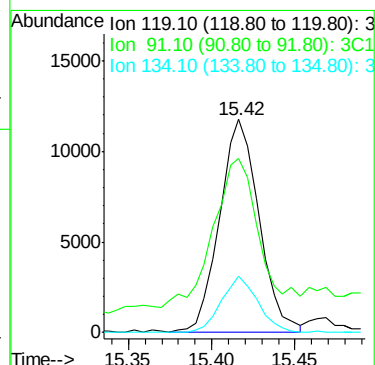
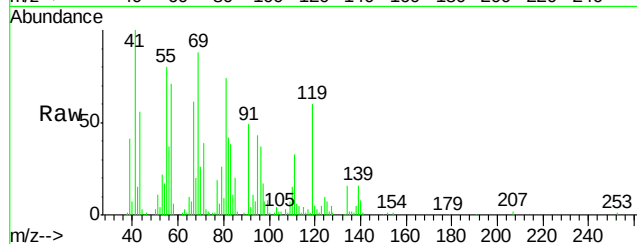
#112
1,3,5-trimethylbenzene
Concen: 0.40 ug/L
RT: 15.08 min Scan# 2179
Delta R.T. 0.00 min
Lab File: 3C113336.D
Acq: 8 Sep 2014 3:45 pm

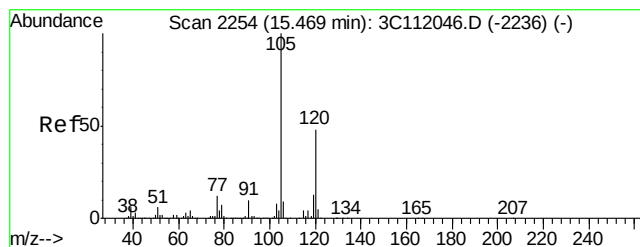
Tgt Ion:	105	Resp:	3554
Ion Ratio	Lower	Upper	
105	100		
120	33.6	21.0	81.0
119	11.7	0.0	43.4



#113
tert-butylbenzene
Concen: 2.47 ug/L
RT: 15.42 min Scan# 2244
Delta R.T. -0.01 min
Lab File: 3C113336.D
Acq: 8 Sep 2014 3:45 pm

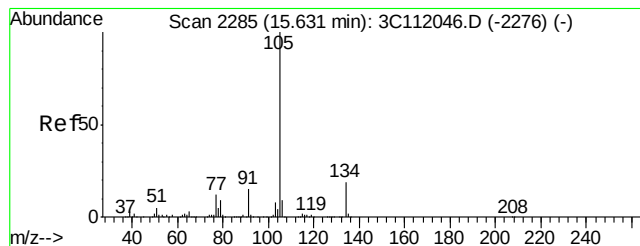
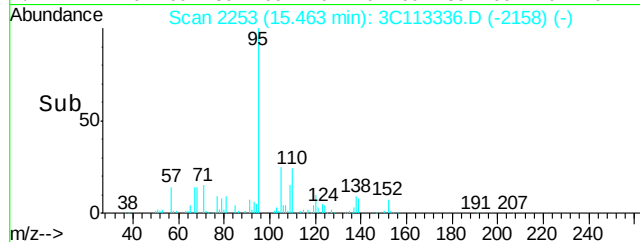
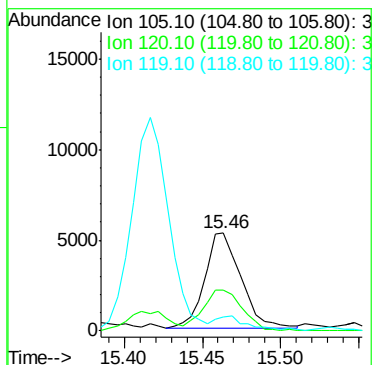
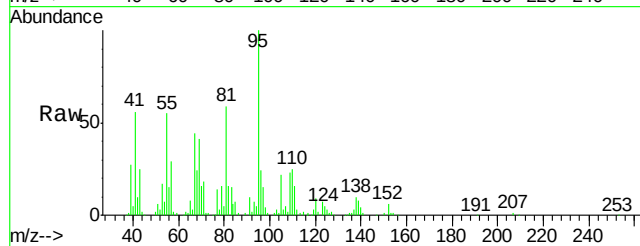
Tgt Ion:	119	Resp:	19365
Ion Ratio	Lower	Upper	
119	100		
91	66.5	32.9	92.9
134	26.6	0.0	54.6





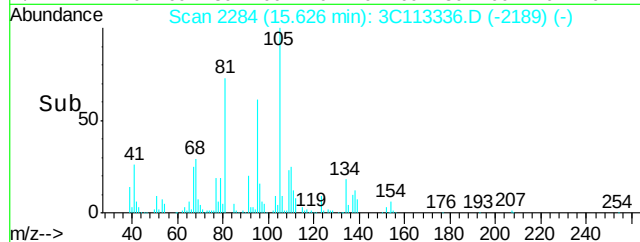
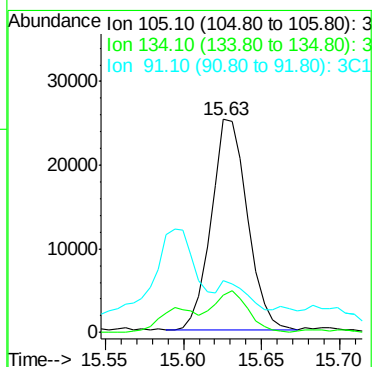
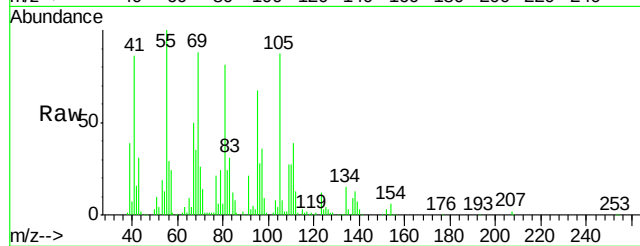
#115
1,2,4-trimethylbenzene
Concen: 0.96 ug/L
RT: 15.46 min Scan# 2253
Delta R.T. -0.01 min
Lab File: 3C113336.D
Acq: 8 Sep 2014 3:45 pm

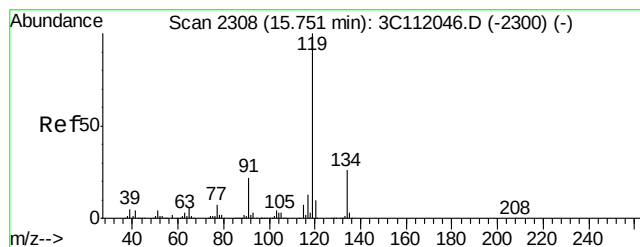
Tgt Ion	Ratio	Lower	Upper
105	100		
120	42.6	17.5	77.5
119	12.4	0.0	42.8



#116
sec-butylbenzene
Concen: 3.52 ug/L
RT: 15.63 min Scan# 2284
Delta R.T. -0.01 min
Lab File: 3C113336.D
Acq: 8 Sep 2014 3:45 pm

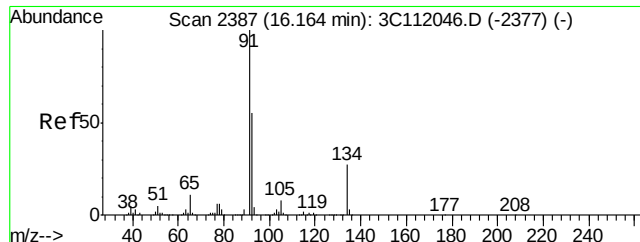
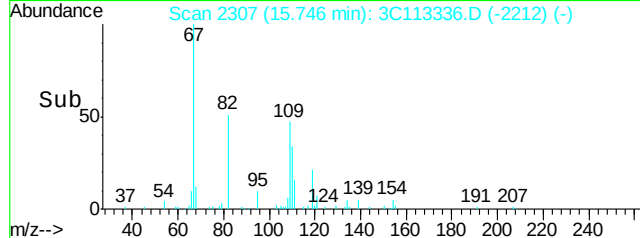
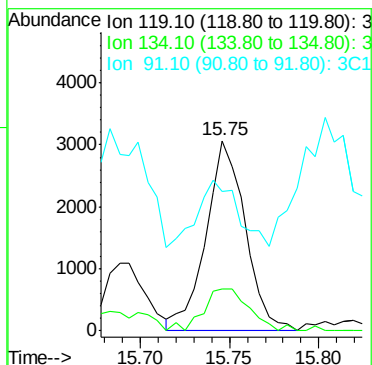
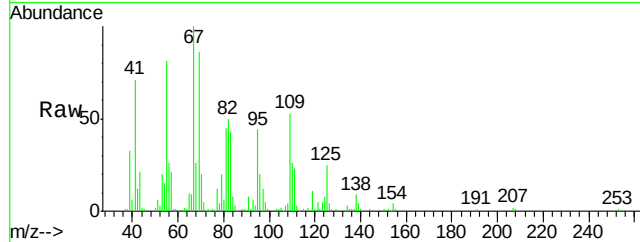
Tgt Ion	Ratio	Lower	Upper
105	100		
134	17.2	0.0	49.4
91	14.1	0.0	45.3





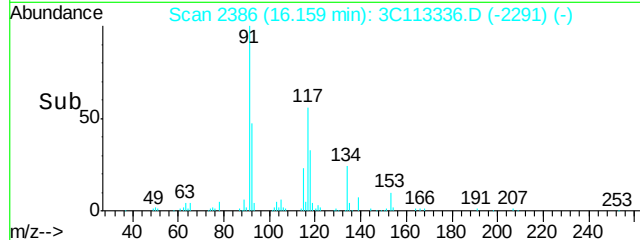
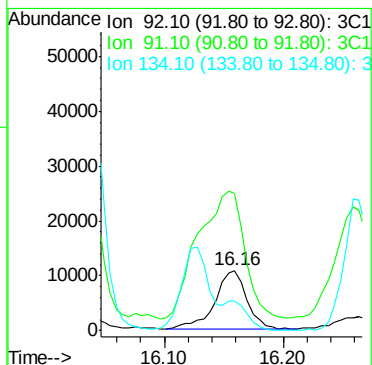
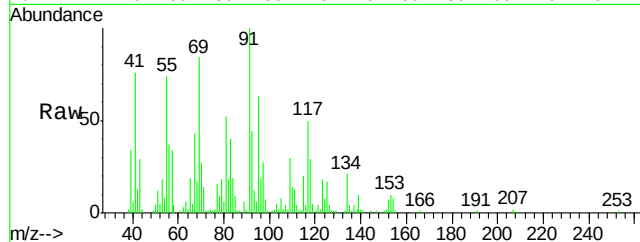
#118
p-isopropyltoluene
Concen: 0.48 ug/L
RT: 15.75 min Scan# 2307
Delta R.T. -0.01 min
Lab File: 3C113336.D
Acq: 8 Sep 2014 3:45 pm

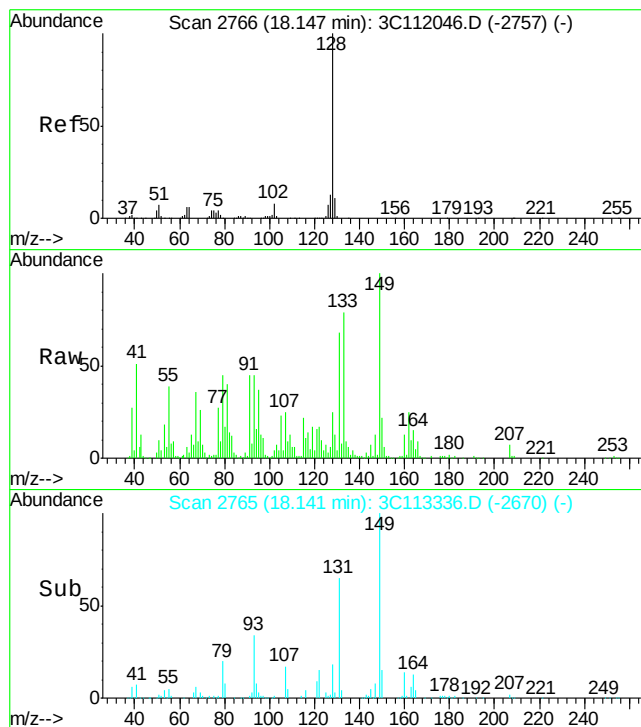
Tgt Ion:	119	Resp:	4720
Ion Ratio	Lower	Upper	
119	100		
134	22.2	0.0	56.5
91	29.3	0.0	52.2



#122
n-butylbenzene
Concen: 4.21 ug/L
RT: 16.16 min Scan# 2386
Delta R.T. -0.01 min
Lab File: 3C113336.D
Acq: 8 Sep 2014 3:45 pm

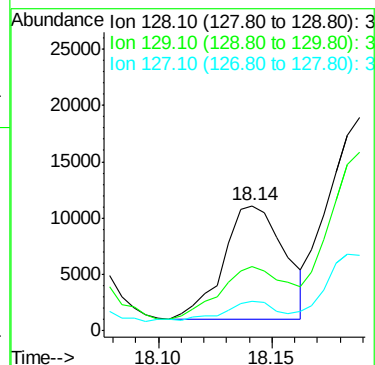
Tgt Ion:	92	Resp:	19889
Ion Ratio	Lower	Upper	
92	100		
91	212.1	150.4	210.4#
134	49.9	19.1	79.1





#128
naphthalene
Concen: 3.10 ug/L
RT: 18.14 min Scan# 2765
Delta R.T. -0.01 min
Lab File: 3C113336.D
Acq: 8 Sep 2014 3:45 pm

Tgt Ion:	128	Resp:	18752
Ion Ratio	Lower	Upper	
128	100		
129	46.4	0.0	40.7#
127	16.1	0.0	43.3



Manual Integration Approval Summary

Sample Number: JB75844-2

Method: SW846 8260C

Lab FileID: 3C113336.D

Analyst approved: 09/09/14 09:57 Robert Szot

Injection Time: 09/08/14 15:45

Supervisor approved: 09/09/14 11:07 Jessica Reitan-Chu

Parameter	CAS	Sig#	R.T. (min.)	Reason
Ethylbenzene	100-41-4		13.66	Missed peak

7.1.2.1
7

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\3C113000\
 Data File : 3C113338.D
 Acq On : 8 Sep 2014 5:04 pm
 Operator : prashans
 Sample : JB75844-3
 Misc : MS73404,V3C5123,4.8,,100,5,1
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 09 11:18:21 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M3C5053.M
 Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
 QLast Update : Tue Aug 26 17:19:34 2014
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Tert Butyl Alcohol-d9	7.31	65	65586	500.00	ug/L	0.01
5) pentafluorobenzene	9.53	168	259143	50.00	ug/L	-0.01
54) 1,4-difluorobenzene	10.45	114	293858	50.00	ug/L	0.00
83) chlorobenzene-d5	13.58	117	264744	50.00	ug/L	0.00
99) 1,4-dichlorobenzene-d4	15.87	152	128812	50.00	ug/L	0.00

System Monitoring Compounds

45) dibromofluoromethane (s)	9.58	113	90243	47.36	ug/L	0.00
Spiked Amount	50.000	Range	59 - 130	Recovery	=	94.72%
46) 1,2-dichloroethane-d4 (s)	10.00	65	93070	47.59	ug/L	0.00
Spiked Amount	50.000	Range	65 - 123	Recovery	=	95.18%
75) toluene-d8 (s)	12.08	98	394601	55.19	ug/L	0.00
Spiked Amount	50.000	Range	80 - 124	Recovery	=	110.38%
101) 4-bromofluorobenzene (s)	14.72	95	136784	48.81	ug/L	0.00
Spiked Amount	50.000	Range	71 - 132	Recovery	=	97.62%

Target Compounds

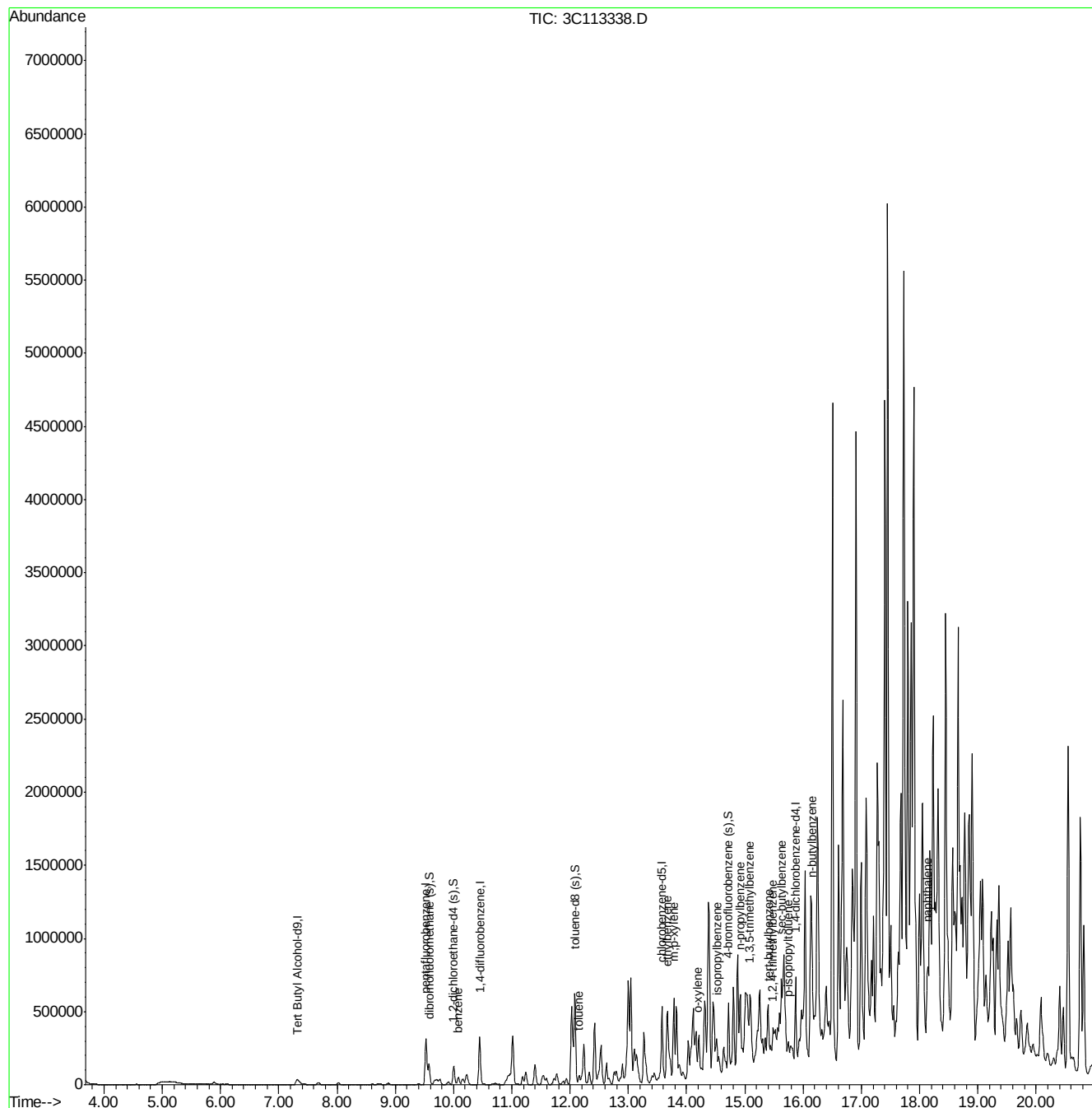
						Qvalue
60) benzene	10.08	78	6239	0.73	ug/L	98
77) toluene	12.16	91	4023	0.46	ug/L	87
92) ethylbenzene	13.66	91	7517m	0.68	ug/L	
93) m,p-xylene	13.77	106	10717	2.58	ug/L	98
94) o-xylene	14.19	91	7961	0.90	ug/L	81
100) isopropylbenzene	14.52	105	100041	9.06	ug/L	97
108) n-propylbenzene	14.92	91	241287	19.56	ug/L	98
112) 1,3,5-trimethylbenzene	15.08	105	1901	0.21	ug/L	87
113) tert-butylbenzene	15.42	119	40732	5.10	ug/L	95
115) 1,2,4-trimethylbenzene	15.46	105	16425	1.84	ug/L	91
116) sec-butylbenzene	15.63	105	246559	20.83	ug/L	98
118) p-isopropyltoluene	15.75	119	5788	0.58	ug/L	80
122) n-butylbenzene	16.15	92	146433	30.36	ug/L	89
128) naphthalene	18.14	128	34403	5.57	ug/L	65

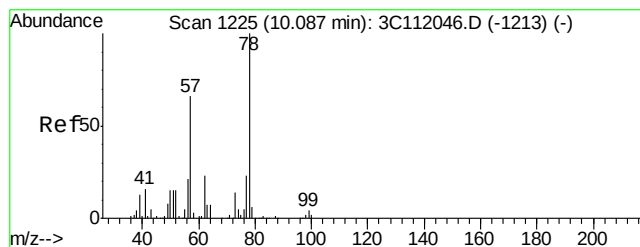
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\3C113000\
Data File : 3C113338.D
Acq On : 8 Sep 2014 5:04 pm
Operator : prashans
Sample : JB75844-3
Misc : MS73404,V3C5123,4.8,,100,5,1
ALS Vial : 9 Sample Multiplier: 1

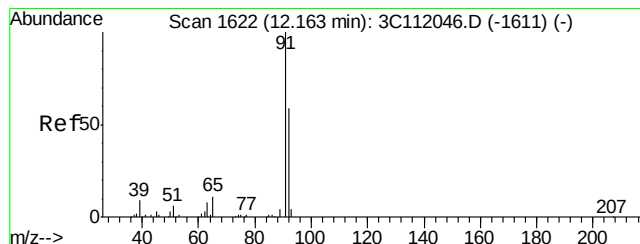
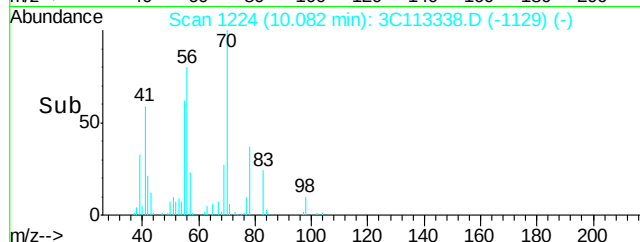
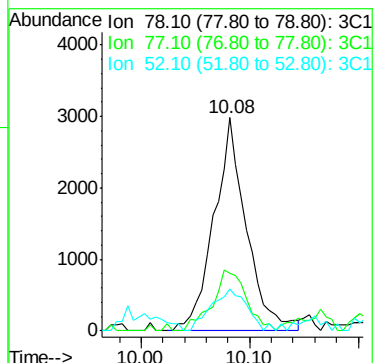
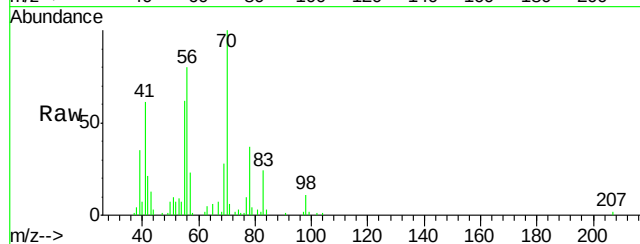
Quant Time: Sep 09 11:18:21 2014
Quant Method : C:\MSDCHEM\1\METHODS\M3C5053.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Tue Aug 26 17:19:34 2014
Response via : Initial Calibration





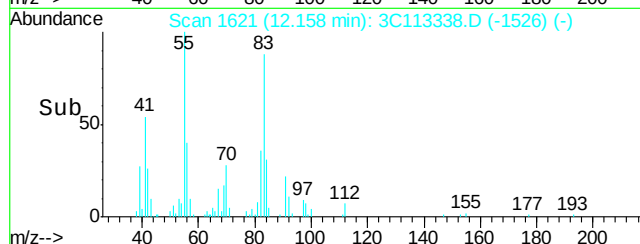
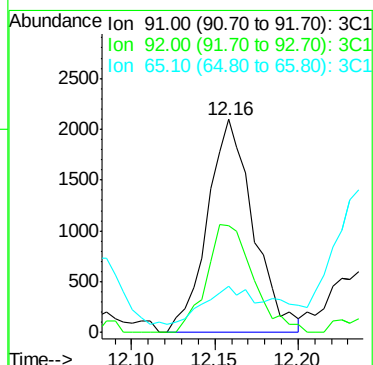
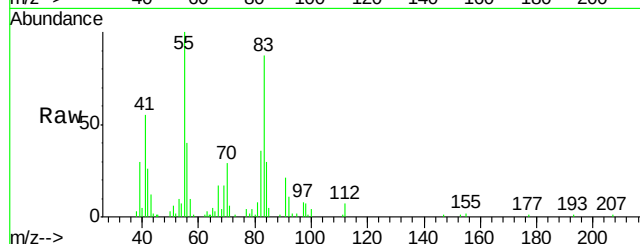
#60
benzene
Concen: 0.73 ug/L
RT: 10.08 min Scan# 1224
Delta R.T. -0.01 min
Lab File: 3C113338.D
Acq: 8 Sep 2014 5:04 pm

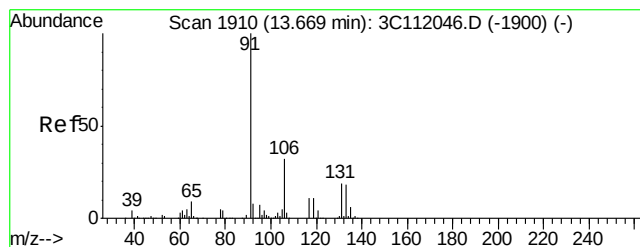
Tgt Ion	Ratio	Lower	Upper
78	100		
77	23.7	0.0	53.0
52	16.5	0.0	45.4



#77
toluene
Concen: 0.46 ug/L
RT: 12.16 min Scan# 1621
Delta R.T. -0.01 min
Lab File: 3C113338.D
Acq: 8 Sep 2014 5:04 pm

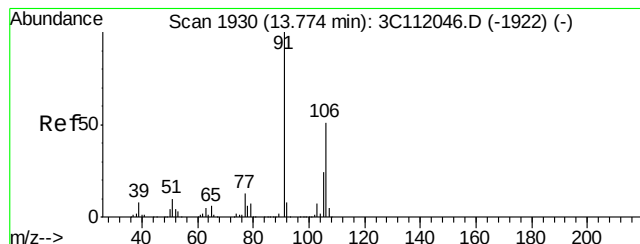
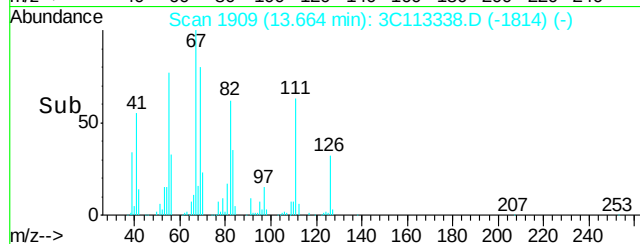
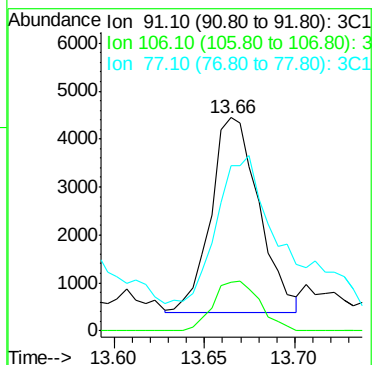
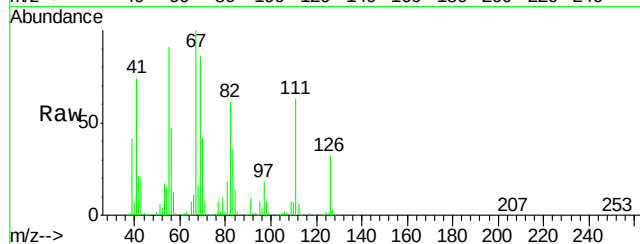
Tgt Ion	Ratio	Lower	Upper
91	100		
92	50.1	29.4	89.4
65	18.3	0.0	41.0





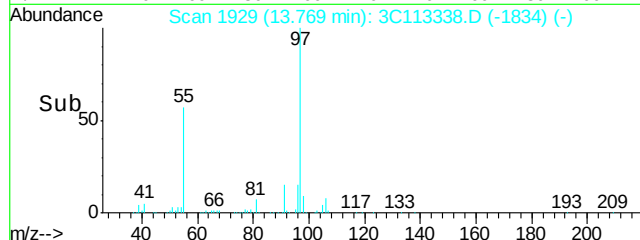
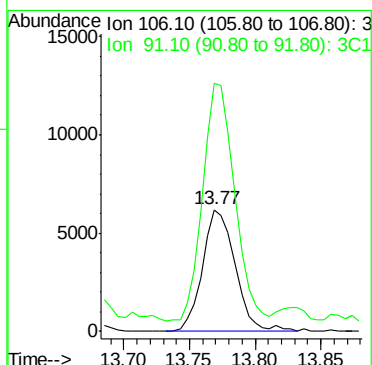
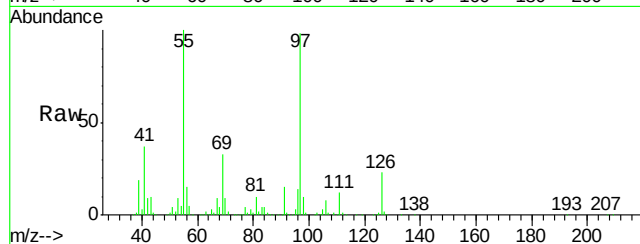
#92
ethylbenzene
Concen: 0.68 ug/L m
RT: 13.66 min Scan# 1909
Delta R.T. -0.01 min
Lab File: 3C113338.D
Acq: 8 Sep 2014 5:04 pm

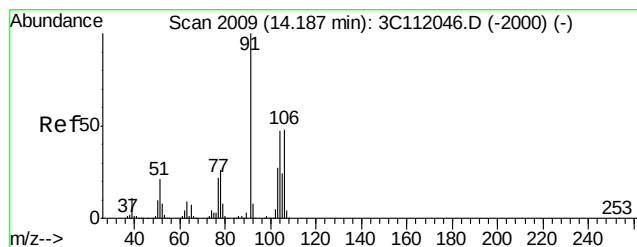
Tgt Ion	Ratio	Lower	Upper
91	100		
106	22.7	2.0	62.0
77	77.5	0.0	38.4#



#93
m,p-xylene
Concen: 2.58 ug/L
RT: 13.77 min Scan# 1929
Delta R.T. -0.01 min
Lab File: 3C113338.D
Acq: 8 Sep 2014 5:04 pm

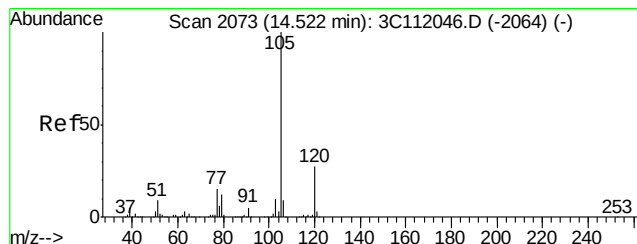
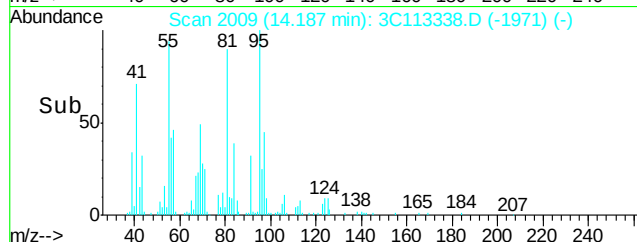
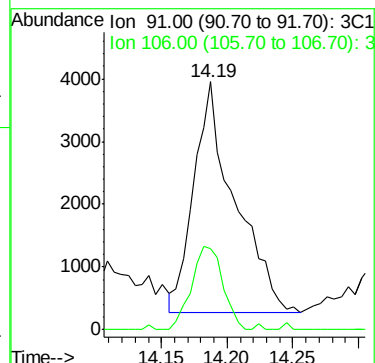
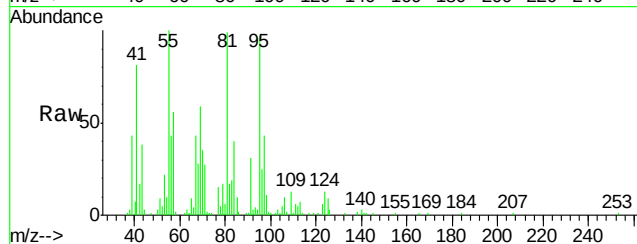
Tgt Ion	Ratio	Lower	Upper
106	100		
91	195.1	138.5	257.1





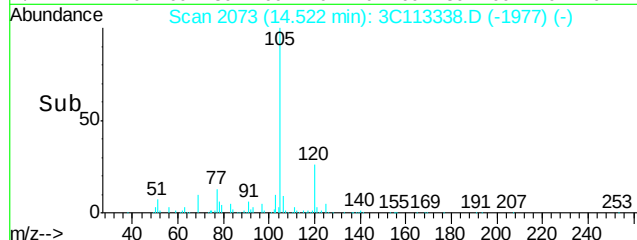
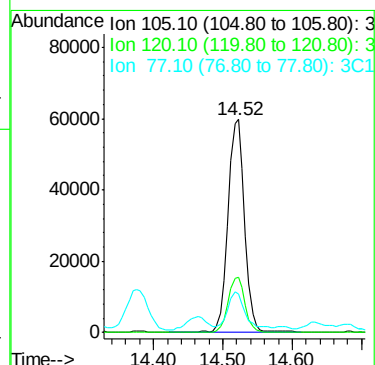
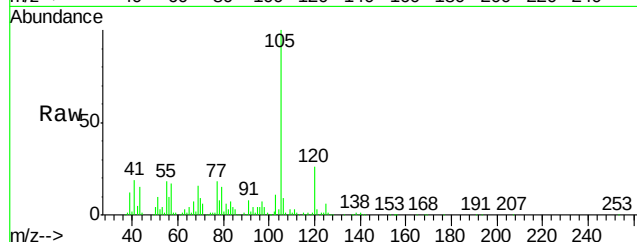
#94
o-xylene
Concen: 0.90 ug/L
RT: 14.19 min Scan# 2009
Delta R.T. 0.00 min
Lab File: 3C113338.D
Acq: 8 Sep 2014 5:04 pm

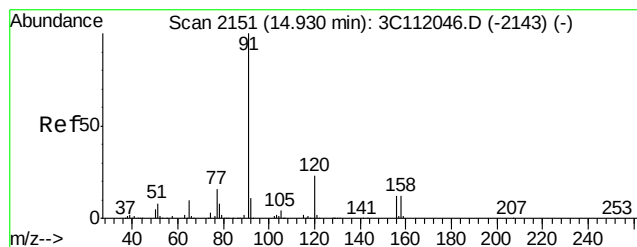
Tgt Ion: 91 Resp: 7961
Ion Ratio Lower Upper
91 100
106 35.0 33.3 61.9



#100
isopropylbenzene
Concen: 9.06 ug/L
RT: 14.52 min Scan# 2073
Delta R.T. 0.00 min
Lab File: 3C113338.D
Acq: 8 Sep 2014 5:04 pm

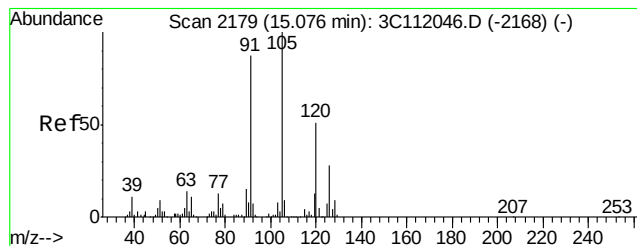
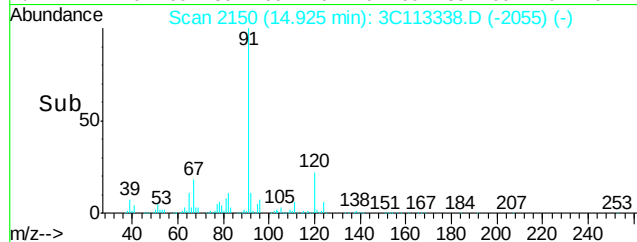
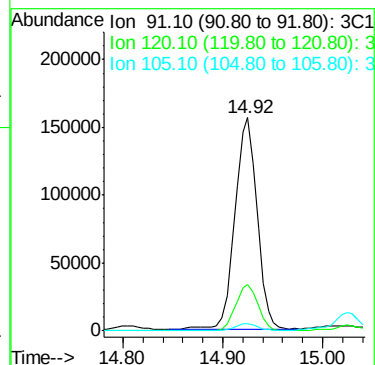
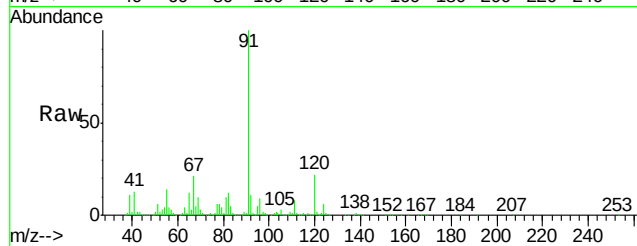
Tgt Ion: 105 Resp: 100041
Ion Ratio Lower Upper
105 100
120 26.1 0.0 57.1
77 16.7 0.0 45.1





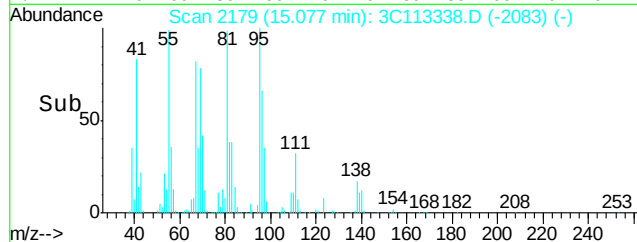
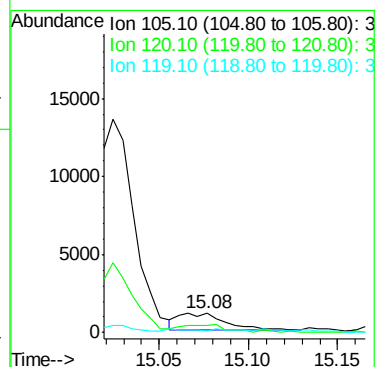
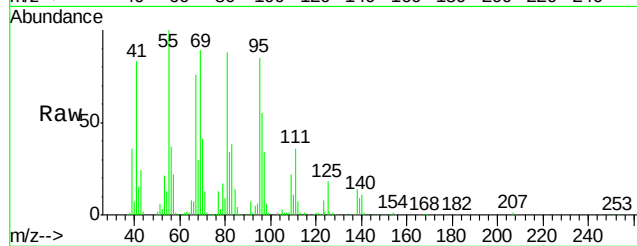
#108
n-propylbenzene
Concen: 19.56 ug/L
RT: 14.92 min Scan# 2150
Delta R.T. -0.01 min
Lab File: 3C113338.D
Acq: 8 Sep 2014 5:04 pm

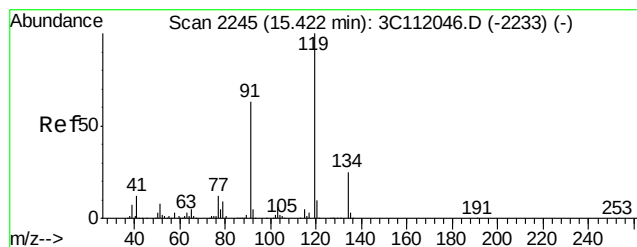
Tgt Ion	Ratio	Lower	Upper
91	100		
120	22.1	0.0	53.3
105	3.3	0.0	33.8



#112
1,3,5-trimethylbenzene
Concen: 0.21 ug/L
RT: 15.08 min Scan# 2179
Delta R.T. 0.00 min
Lab File: 3C113338.D
Acq: 8 Sep 2014 5:04 pm

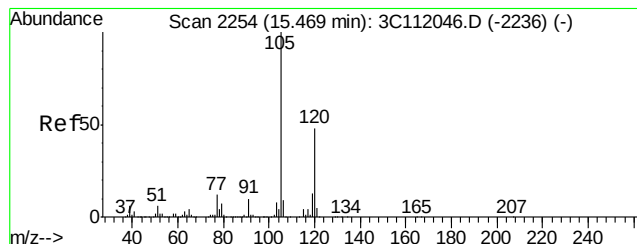
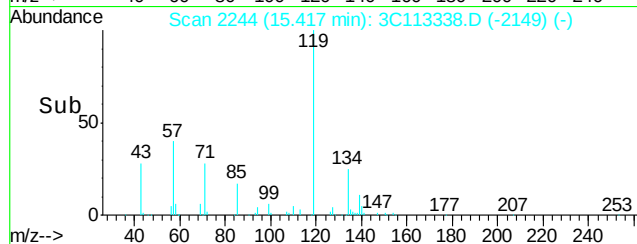
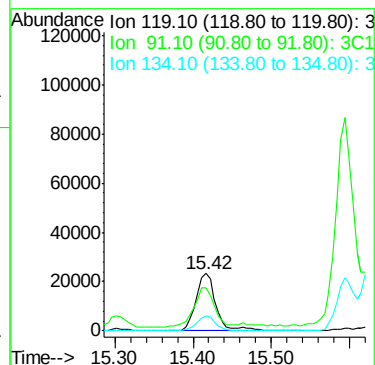
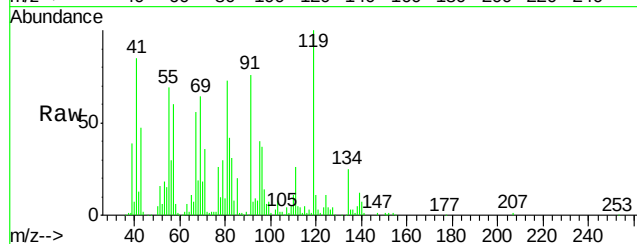
Tgt Ion	Ratio	Lower	Upper
105	100		
120	45.5	21.0	81.0
119	0.0	0.0	43.4





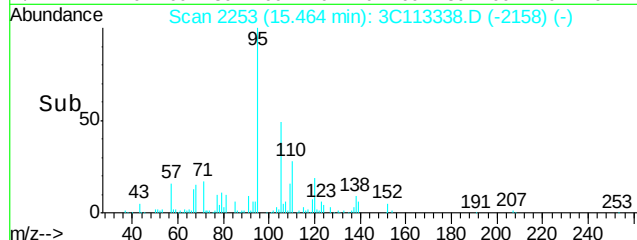
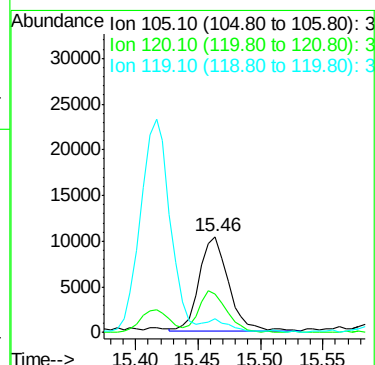
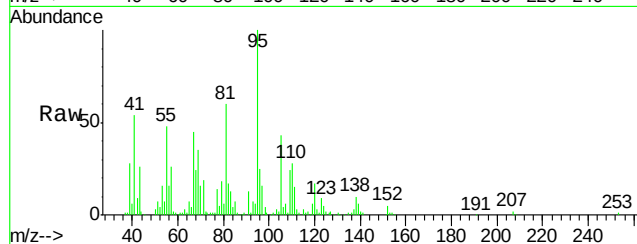
#113
tert-butylbenzene
Concen: 5.10 ug/L
RT: 15.42 min Scan# 2244
Delta R.T. -0.01 min
Lab File: 3C113338.D
Acq: 8 Sep 2014 5:04 pm

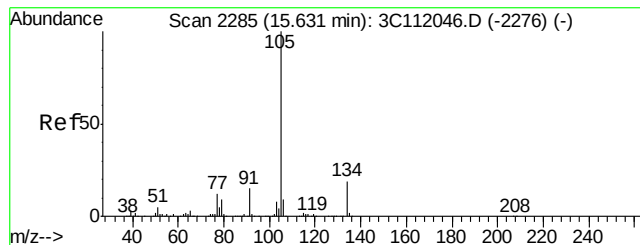
Tgt Ion	Ratio	Lower	Upper
119	100		
91	68.0	32.9	92.9
134	25.3	0.0	54.6



#115
1,2,4-trimethylbenzene
Concen: 1.84 ug/L
RT: 15.46 min Scan# 2253
Delta R.T. -0.01 min
Lab File: 3C113338.D
Acq: 8 Sep 2014 5:04 pm

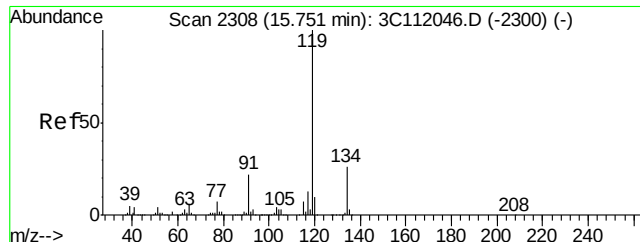
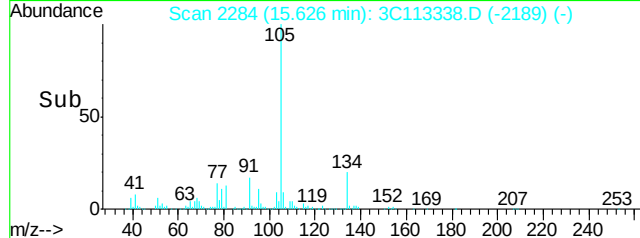
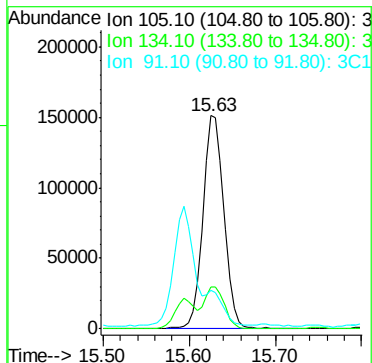
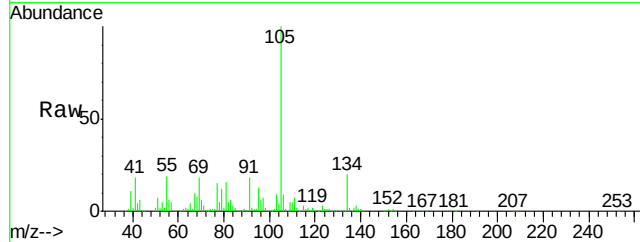
Tgt Ion	Ratio	Lower	Upper
105	100		
120	40.7	17.5	77.5
119	14.0	0.0	42.8





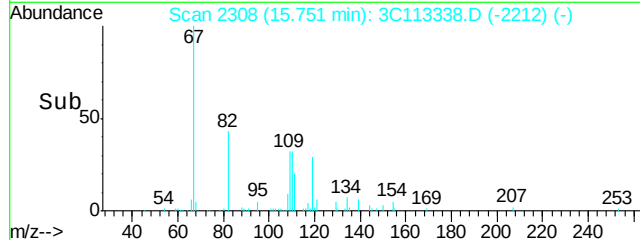
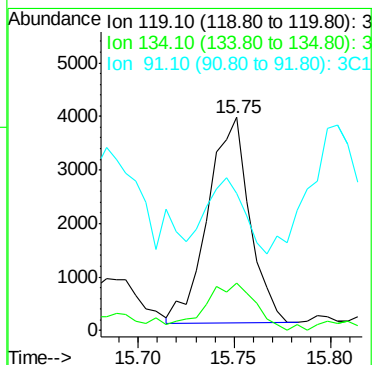
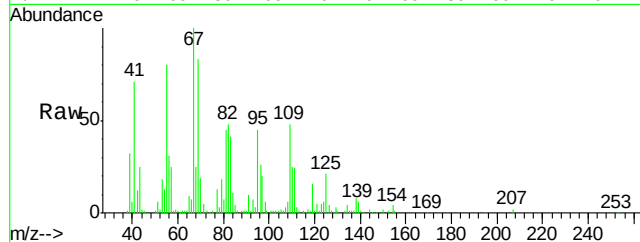
#116
sec-butylbenzene
Concen: 20.83 ug/L
RT: 15.63 min Scan# 2284
Delta R.T. -0.01 min
Lab File: 3C113338.D
Acq: 8 Sep 2014 5:04 pm

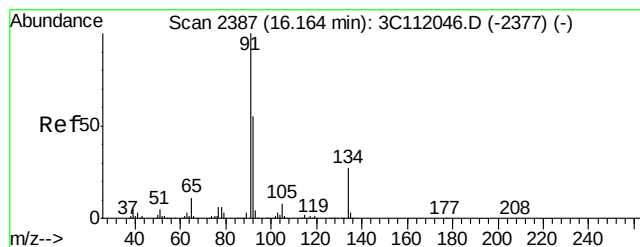
Tgt Ion:	105	Resp:	246559
Ion Ratio	Lower	Upper	
105	100		
134	19.4	0.0	49.4
91	17.0	0.0	45.3



#118
p-isopropyltoluene
Concen: 0.58 ug/L
RT: 15.75 min Scan# 2308
Delta R.T. 0.00 min
Lab File: 3C113338.D
Acq: 8 Sep 2014 5:04 pm

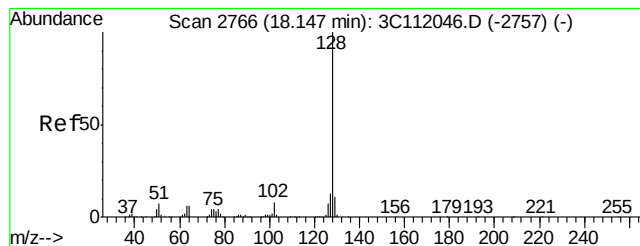
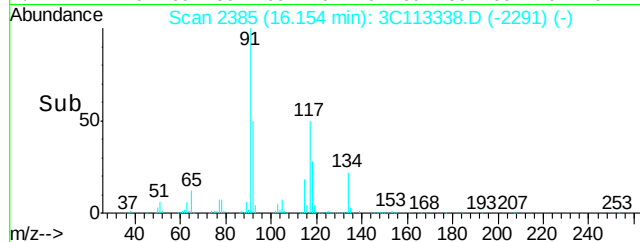
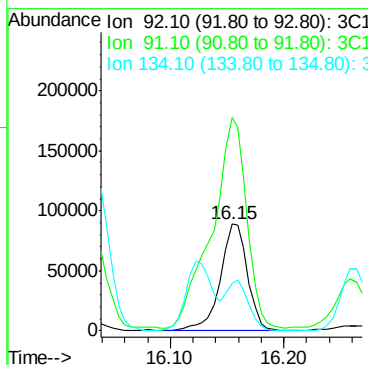
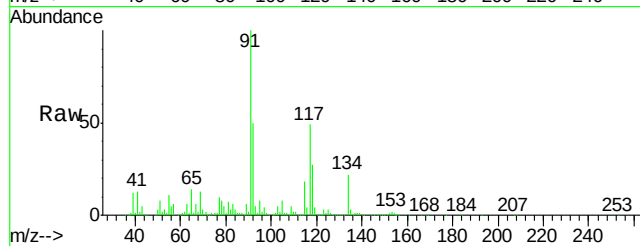
Tgt Ion:	119	Resp:	5788
Ion Ratio	Lower	Upper	
119	100		
134	20.3	0.0	56.5
91	8.0	0.0	52.2





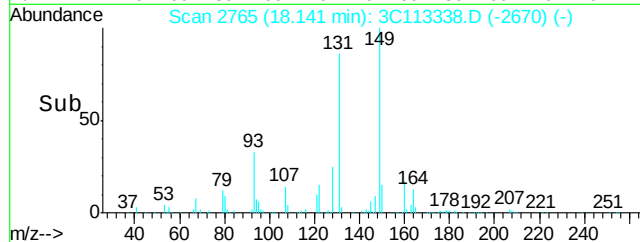
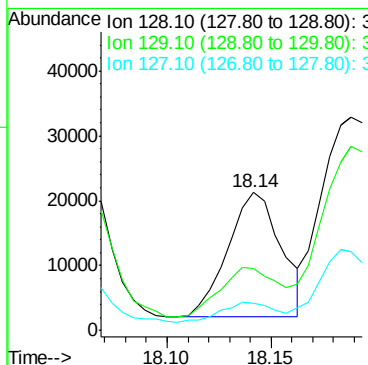
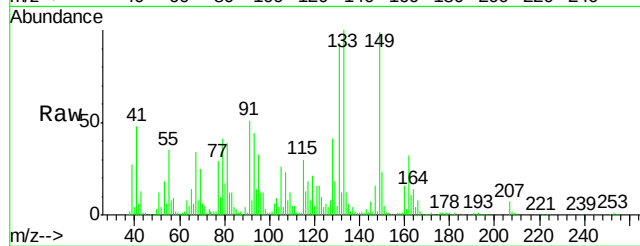
#122
n-butylbenzene
Concen: 30.36 ug/L
RT: 16.15 min Scan# 2385
Delta R.T. -0.01 min
Lab File: 3C113338.D
Acq: 8 Sep 2014 5:04 pm

Tgt Ion:	92	Resp:	146433
Ion Ratio	Lower	Upper	
92	100		
91	197.8	150.4	210.4
134	44.4	19.1	79.1



#128
naphthalene
Concen: 5.57 ug/L
RT: 18.14 min Scan# 2765
Delta R.T. -0.01 min
Lab File: 3C113338.D
Acq: 8 Sep 2014 5:04 pm

Tgt Ion:	128	Resp:	34403
Ion Ratio	Lower	Upper	
128	100		
129	38.8	0.0	40.7
127	14.4	0.0	43.3



Manual Integration Approval Summary

Sample Number: JB75844-3

Method: SW846 8260C

Lab FileID: 3C113338.D

Analyst approved: 09/09/14 11:30 Robert Szot

Injection Time: 09/08/14 17:04

Supervisor approved: 09/09/14 11:33 Jessica Reitan-Chu

Parameter	CAS	Sig#	R.T. (min.)	Reason
Ethylbenzene	100-41-4		13.66	Missed peak

7.1.3.1
7

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\3C113000\
 Data File : 3C113353.D
 Acq On : 9 Sep 2014 12:00 am
 Operator : prashans
 Sample : JB75844-4
 Misc : MS73404,V3C5124,4.5,,,1
 ALS Vial : 24 Sample Multiplier: 1

Quant Time: Sep 09 11:27:52 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M3C5053.M
 Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
 QLast Update : Tue Aug 26 17:19:34 2014
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Tert Butyl Alcohol-d9	7.30	65	70826	500.00	ug/L	0.00
5) pentafluorobenzene	9.53	168	277848	50.00	ug/L	0.00
54) 1,4-difluorobenzene	10.45	114	321538	50.00	ug/L	0.00
83) chlorobenzene-d5	13.58	117	284306	50.00	ug/L	0.00
99) 1,4-dichlorobenzene-d4	15.88	152	131353	50.00	ug/L	0.00

System Monitoring Compounds

45) dibromofluoromethane (s)	9.58	113	100194	49.04	ug/L	0.00
Spiked Amount	50.000	Range 59 - 130	Recovery	=	98.08%	
46) 1,2-dichloroethane-d4 (s)	10.00	65	107064	51.06	ug/L	0.00
Spiked Amount	50.000	Range 65 - 123	Recovery	=	102.12%	
75) toluene-d8 (s)	12.08	98	416323	53.21	ug/L	0.00
Spiked Amount	50.000	Range 80 - 124	Recovery	=	106.42%	
101) 4-bromofluorobenzene (s)	14.72	95	137157	48.00	ug/L	0.00
Spiked Amount	50.000	Range 71 - 132	Recovery	=	96.00%	

Target Compounds

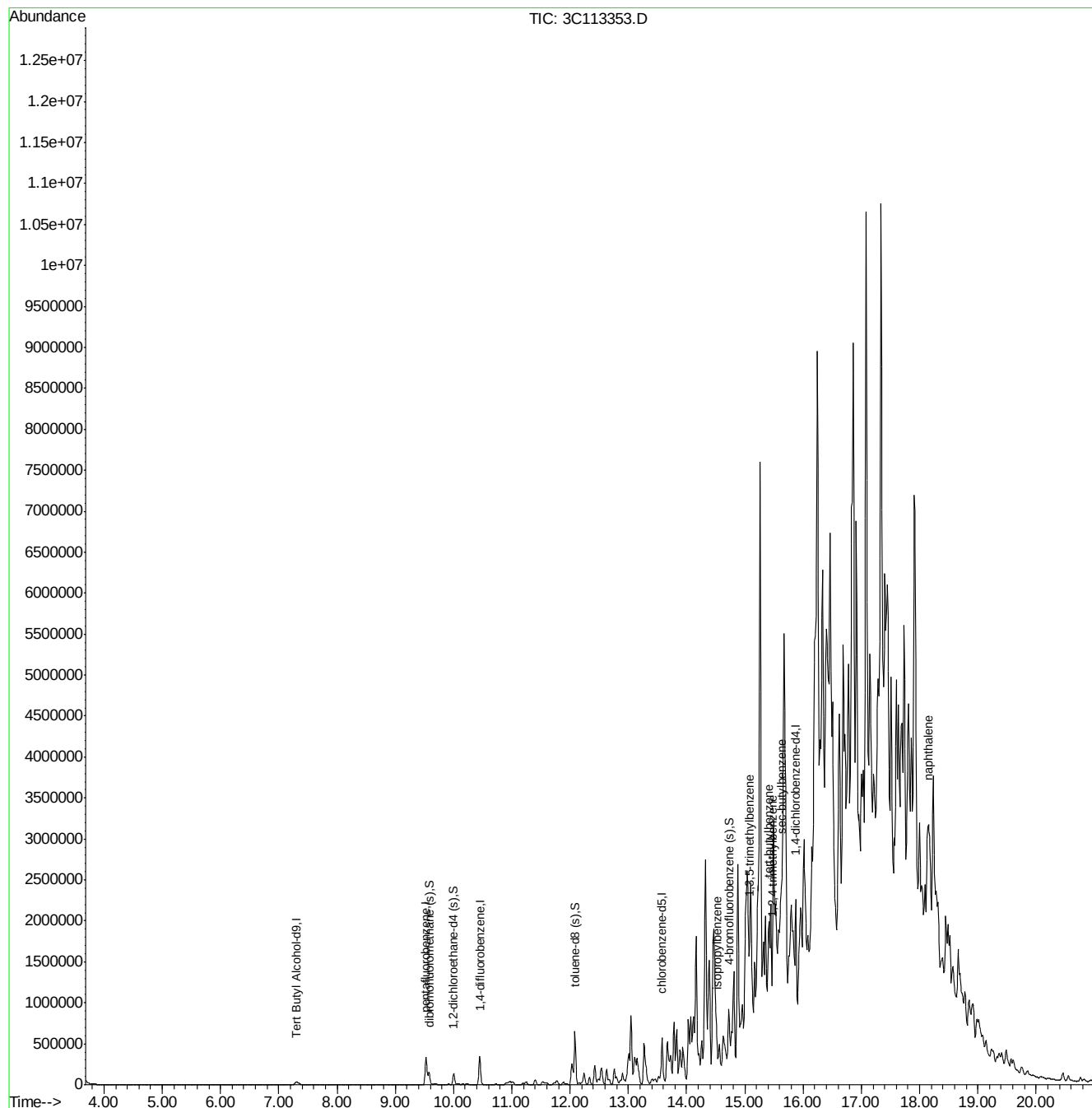
						Qvalue
100) isopropylbenzene	14.52	105	4883	0.43	ug/L	# 64
112) 1,3,5-trimethylbenzene	15.08	105	2743	0.29	ug/L	71
113) tert-butylbenzene	15.42	119	20565	2.53	ug/L	95
115) 1,2,4-trimethylbenzene	15.47	105	3727	0.41	ug/L	82
116) sec-butylbenzene	15.63	105	35161	2.91	ug/L	81
128) naphthalene	18.15	128	11075	1.76	ug/L	# 19

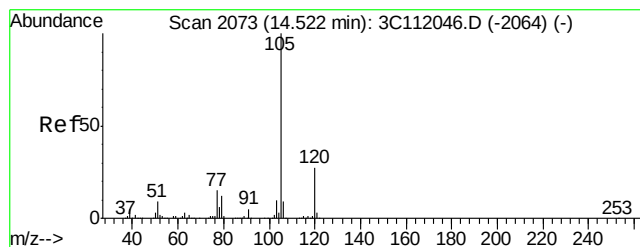
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\3C113000\
Data File : 3C113353.D
Acq On : 9 Sep 2014 12:00 am
Operator : prashans
Sample : JB75844-4
Misc : MS73404,V3C5124,4.5,,,,1
ALS Vial : 24 Sample Multiplier: 1

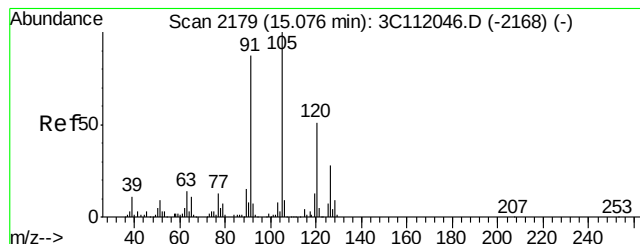
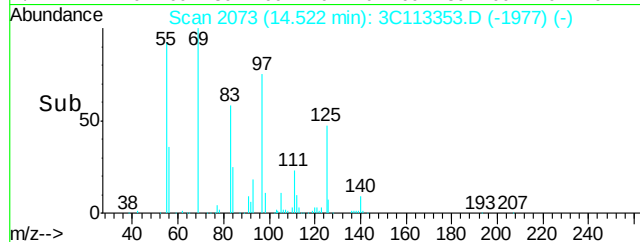
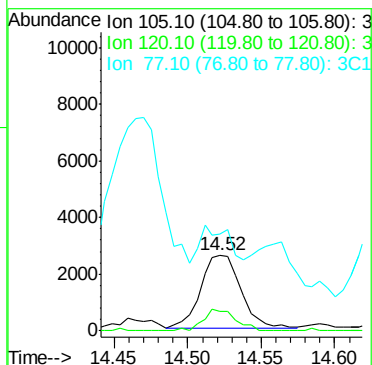
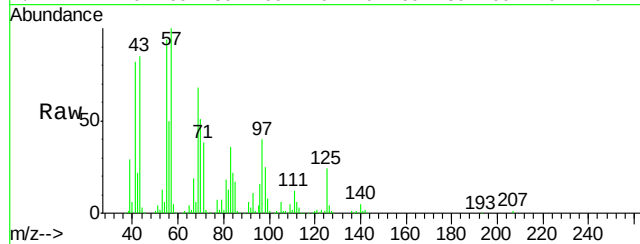
Quant Time: Sep 09 11:27:52 2014
Quant Method : C:\MSDCHEM\1\METHODS\M3C5053.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Tue Aug 26 17:19:34 2014
Response via : Initial Calibration





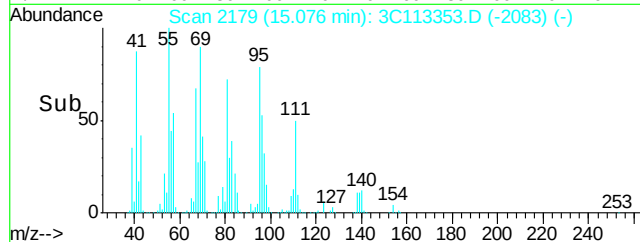
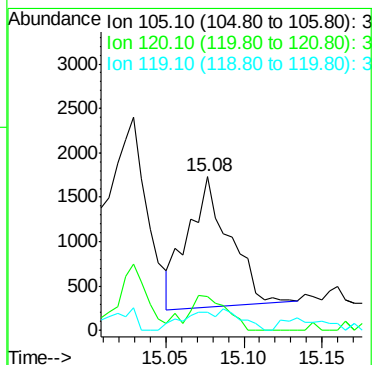
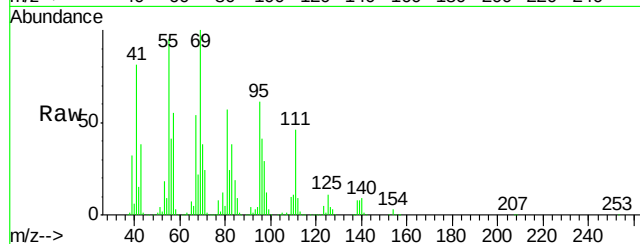
#100
isopropylbenzene
Concen: 0.43 ug/L
RT: 14.52 min Scan# 2073
Delta R.T. 0.00 min
Lab File: 3C113353.D
Acq: 9 Sep 2014 12:00 am

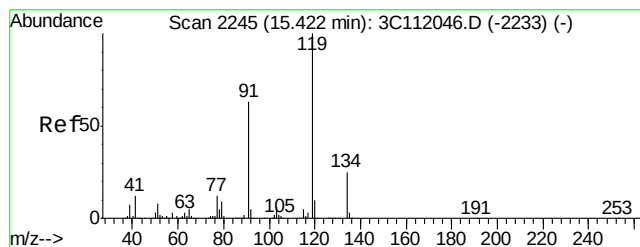
Tgt Ion	Ratio	Lower	Upper
105	100		
120	26.1	0.0	57.1
77	55.2	0.0	45.1#



#112
1,3,5-trimethylbenzene
Concen: 0.29 ug/L
RT: 15.08 min Scan# 2179
Delta R.T. 0.00 min
Lab File: 3C113353.D
Acq: 9 Sep 2014 12:00 am

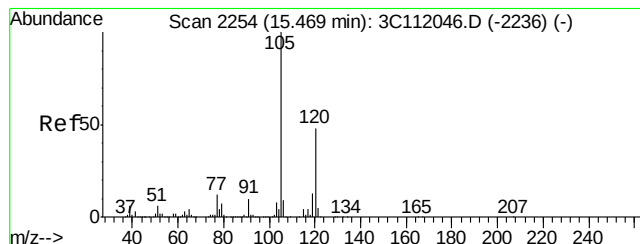
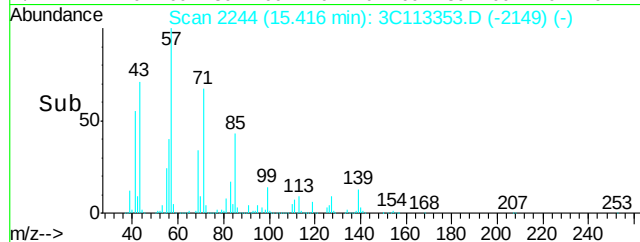
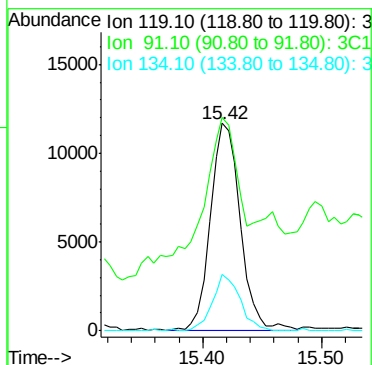
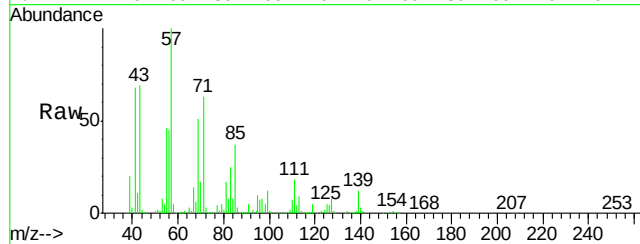
Tgt Ion	Ratio	Lower	Upper
105	100		
120	27.3	21.0	81.0
119	9.1	0.0	43.4





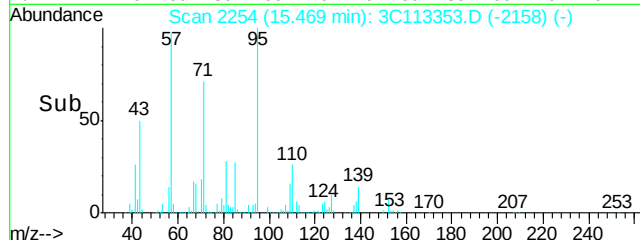
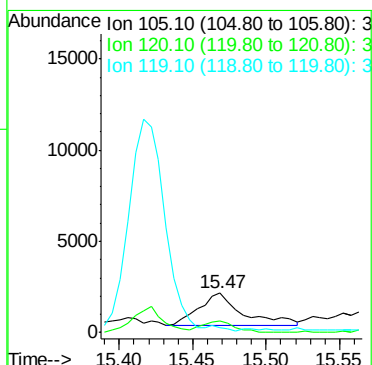
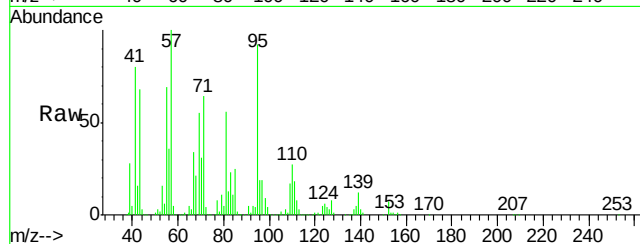
#113
tert-butylbenzene
Concen: 2.53 ug/L
RT: 15.42 min Scan# 2244
Delta R.T. -0.01 min
Lab File: 3C113353.D
Acq: 9 Sep 2014 12:00 am

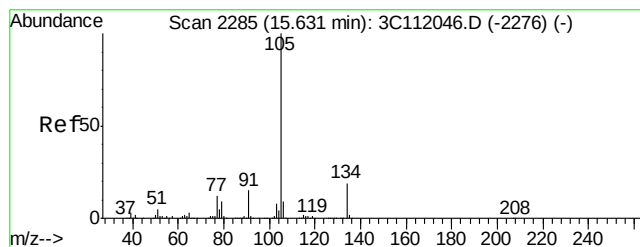
Tgt Ion:	119	Resp:	20565
Ion Ratio	Lower	Upper	
119	100		
91	66.9	32.9	92.9
134	27.0	0.0	54.6



#115
1,2,4-trimethylbenzene
Concen: 0.41 ug/L
RT: 15.47 min Scan# 2254
Delta R.T. 0.00 min
Lab File: 3C113353.D
Acq: 9 Sep 2014 12:00 am

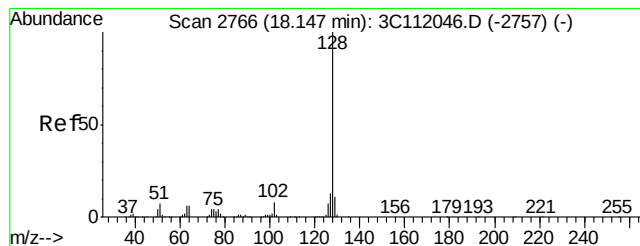
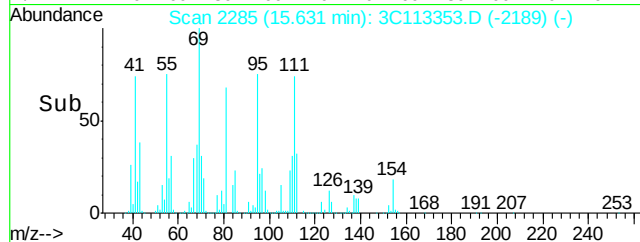
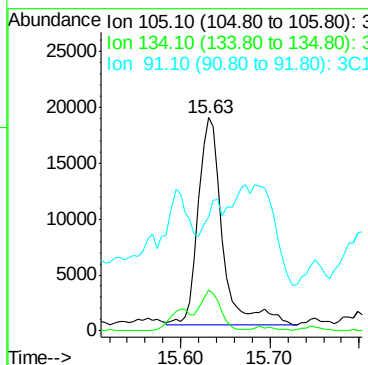
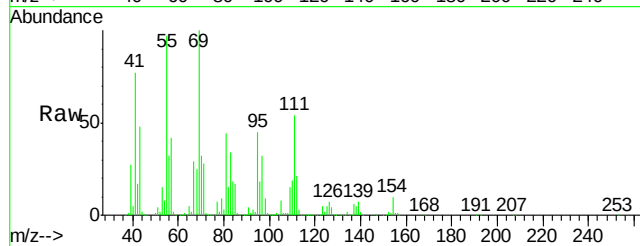
Tgt Ion:	105	Resp:	3727
Ion Ratio	Lower	Upper	
105	100		
120	36.1	17.5	77.5
119	3.2	0.0	42.8





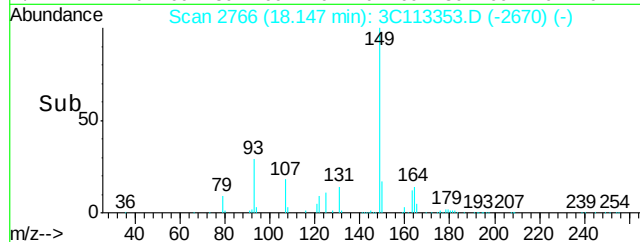
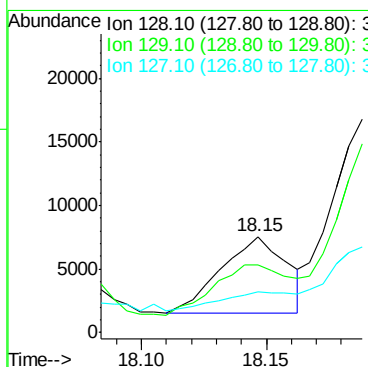
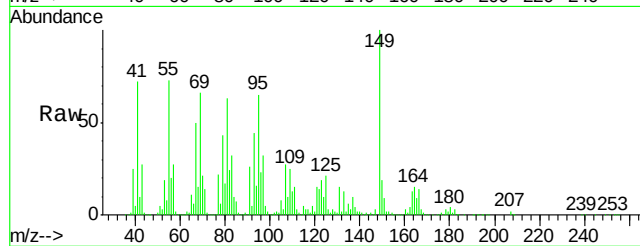
#116
sec-butylbenzene
Concen: 2.91 ug/L
RT: 15.63 min Scan# 2285
Delta R.T. 0.00 min
Lab File: 3C113353.D
Acq: 9 Sep 2014 12:00 am

Tgt Ion	Ratio	Lower	Upper
105	100		
134	19.1	0.0	49.4
91	33.0	0.0	45.3



#128
naphthalene
Concen: 1.76 ug/L
RT: 18.15 min Scan# 2766
Delta R.T. 0.00 min
Lab File: 3C113353.D
Acq: 9 Sep 2014 12:00 am

Tgt Ion	Ratio	Lower	Upper
128	100		
129	65.9	0.0	40.7#
127	24.5	0.0	43.3



Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\3C113000\
 Data File : 3C113354.D
 Acq On : 9 Sep 2014 12:28 am
 Operator : prashans
 Sample : JB75844-5
 Misc : MS73404,V3C5124,4.6,,,,1
 ALS Vial : 25 Sample Multiplier: 1

Quant Time: Sep 09 11:33:08 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M3C5053.M
 Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
 QLast Update : Tue Aug 26 17:19:34 2014
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Tert Butyl Alcohol-d9	7.30	65	63617	500.00	ug/L	0.00
5) pentafluorobenzene	9.53	168	257722	50.00	ug/L	0.00
54) 1,4-difluorobenzene	10.45	114	288139	50.00	ug/L	0.00
83) chlorobenzene-d5	13.58	117	261910	50.00	ug/L	0.00
99) 1,4-dichlorobenzene-d4	15.88	152	121631	50.00	ug/L	0.00

System Monitoring Compounds

45) dibromofluoromethane (s)	9.58	113	89609	47.29	ug/L	0.00
Spiked Amount	50.000	Range	59 - 130	Recovery	=	94.58%
46) 1,2-dichloroethane-d4 (s)	10.00	65	96322	49.52	ug/L	0.00
Spiked Amount	50.000	Range	65 - 123	Recovery	=	99.04%
75) toluene-d8 (s)	12.08	98	384130	54.79	ug/L	0.00
Spiked Amount	50.000	Range	80 - 124	Recovery	=	109.58%
101) 4-bromofluorobenzene (s)	14.72	95	124397	47.01	ug/L	0.00
Spiked Amount	50.000	Range	71 - 132	Recovery	=	94.02%

Target Compounds

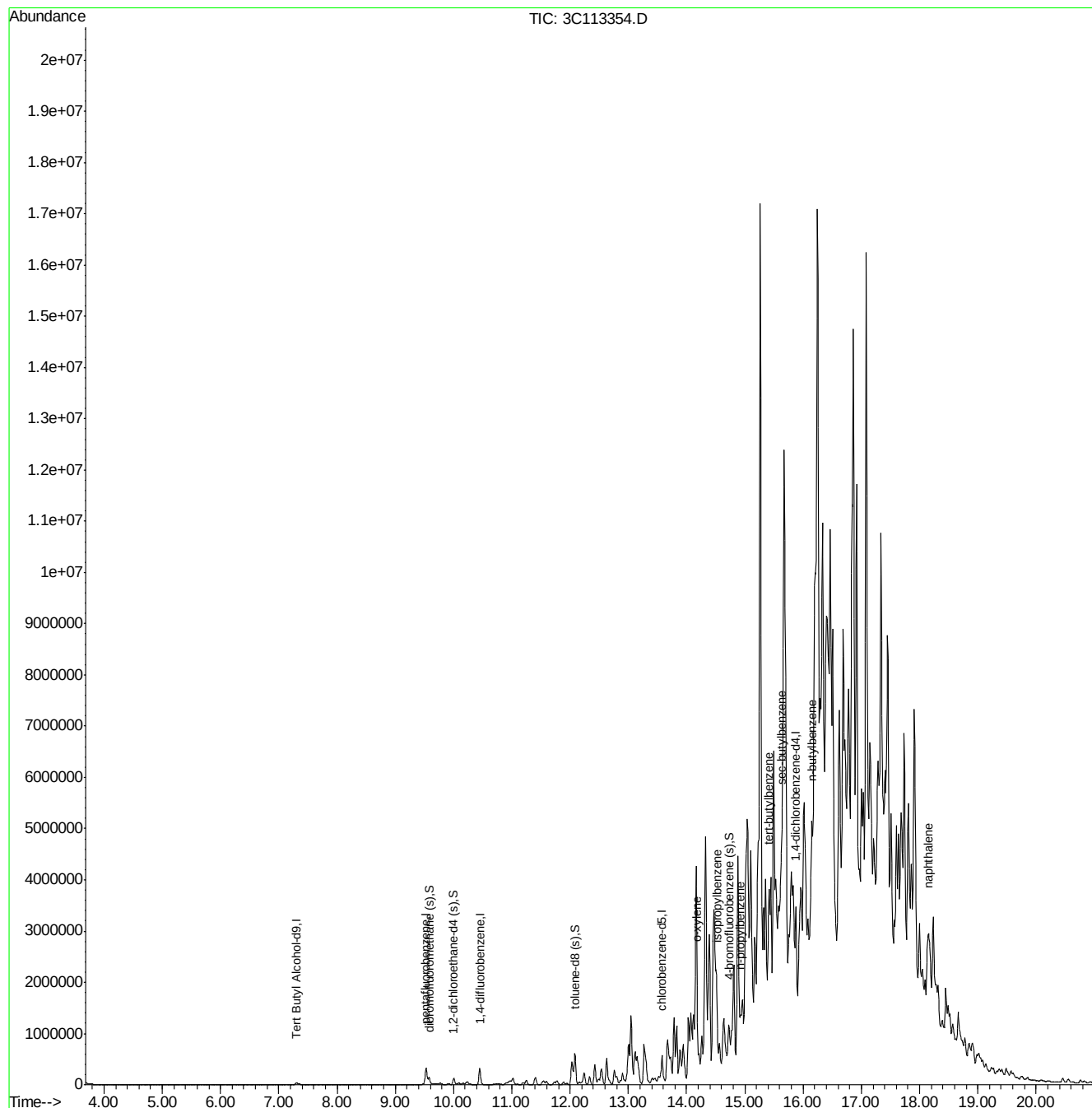
						Qvalue
94) o-xylene	14.19	91	8464	0.97	ug/L	80
100) isopropylbenzene	14.52	105	9847	0.94	ug/L	74
108) n-propylbenzene	14.92	91	13644	1.17	ug/L	95
113) tert-butylbenzene	15.42	119	37679	5.00	ug/L	97
116) sec-butylbenzene	15.63	105	97672	8.74	ug/L	85
122) n-butylbenzene	16.16	92	53361	11.72	ug/L	84
128) naphthalene	18.15	128	11655	2.00	ug/L #	23

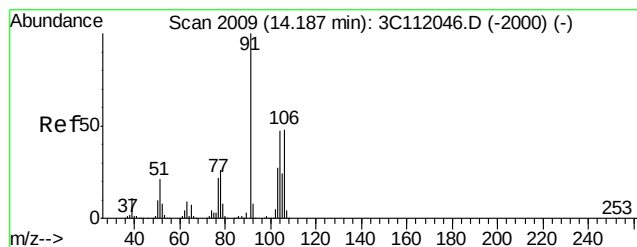
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\3C113000\
Data File : 3C113354.D
Acq On : 9 Sep 2014 12:28 am
Operator : prashans
Sample : JB75844-5
Misc : MS73404,V3C5124,4.6,,,,1
ALS Vial : 25 Sample Multiplier: 1

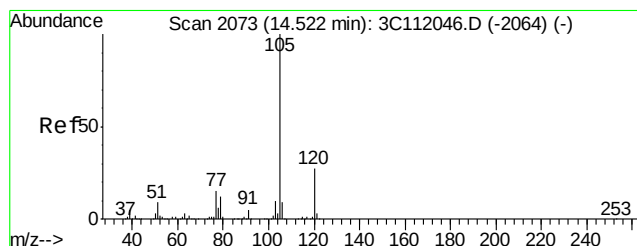
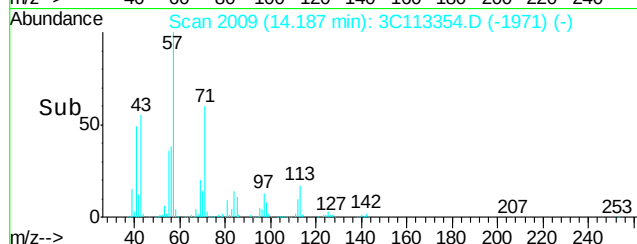
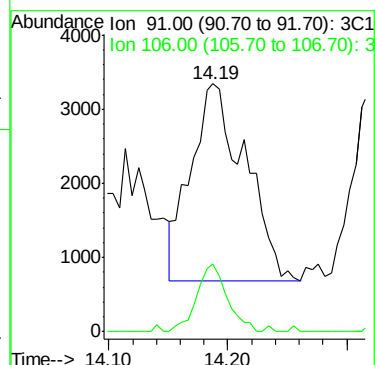
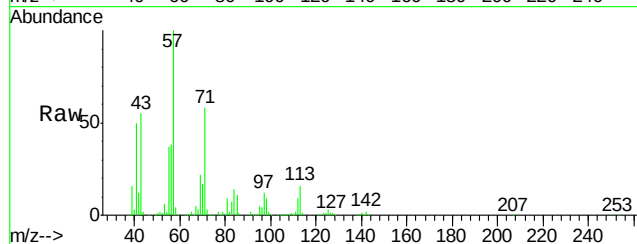
Quant Time: Sep 09 11:33:08 2014
Quant Method : C:\MSDCHEM\1\METHODS\M3C5053.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Tue Aug 26 17:19:34 2014
Response via : Initial Calibration





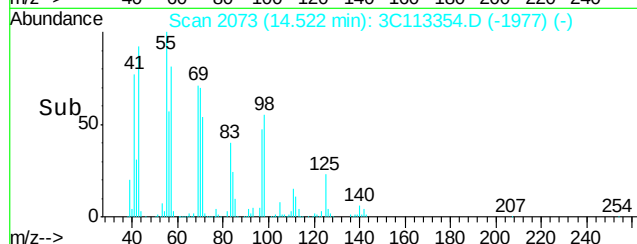
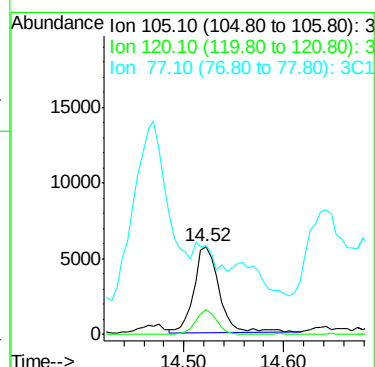
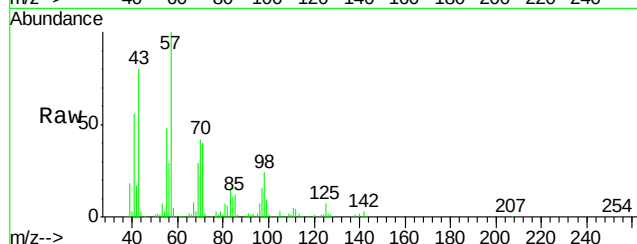
#94
o-xylene
Concen: 0.97 ug/L
RT: 14.19 min Scan# 2009
Delta R.T. 0.00 min
Lab File: 3C113354.D
Acq: 9 Sep 2014 12:28 am

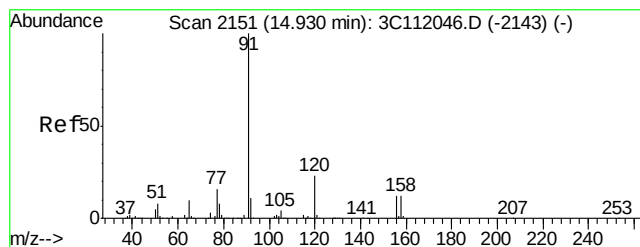
Tgt Ion: 91 Resp: 8464
Ion Ratio Lower Upper
91 100
106 34.4 33.3 61.9



#100
isopropylbenzene
Concen: 0.94 ug/L
RT: 14.52 min Scan# 2073
Delta R.T. 0.00 min
Lab File: 3C113354.D
Acq: 9 Sep 2014 12:28 am

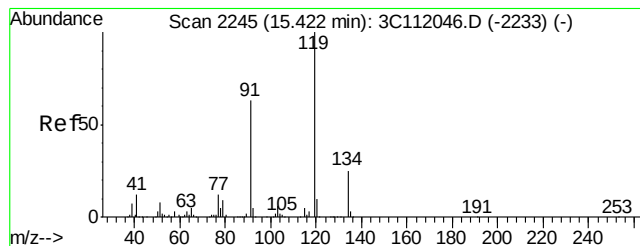
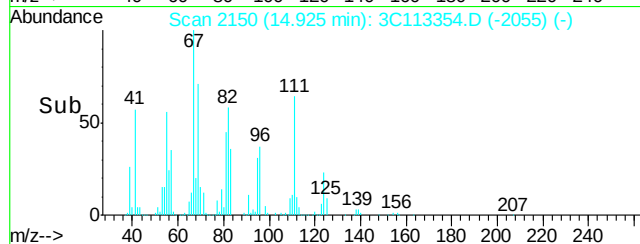
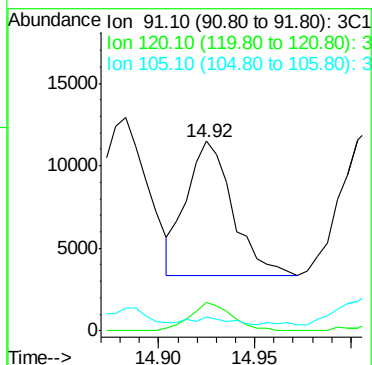
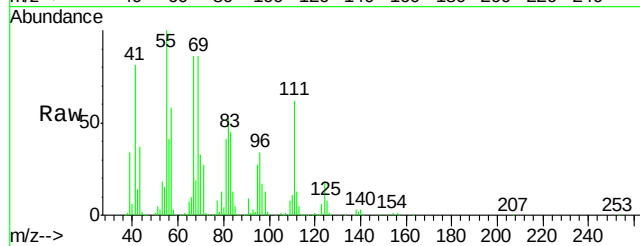
Tgt Ion: 105 Resp: 9847
Ion Ratio Lower Upper
105 100
120 29.1 0.0 57.1
77 42.8 0.0 45.1





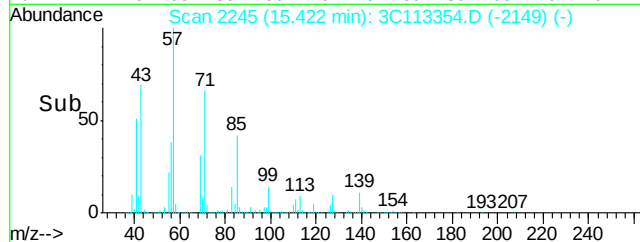
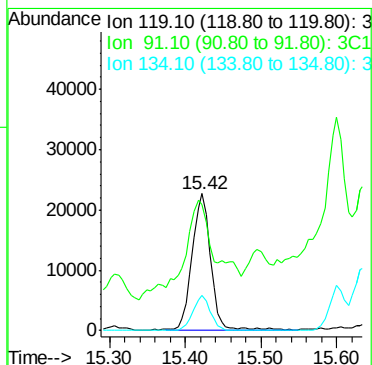
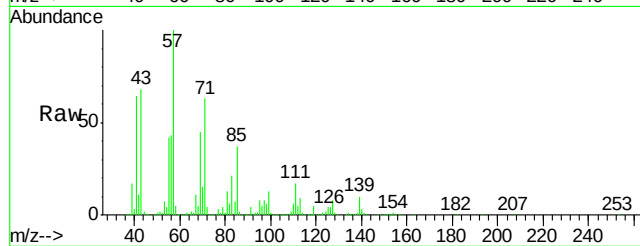
#108
n-propylbenzene
Concen: 1.17 ug/L
RT: 14.92 min Scan# 2150
Delta R.T. -0.01 min
Lab File: 3C113354.D
Acq: 9 Sep 2014 12:28 am

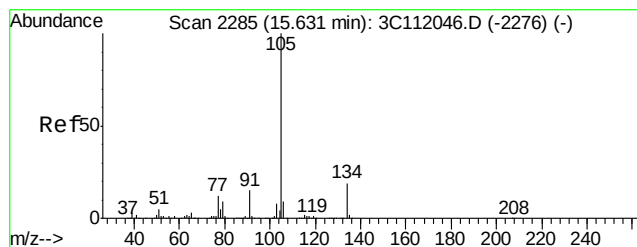
Tgt Ion	Ratio	Lower	Upper
91	100		
120	20.8	0.0	53.3
105	5.5	0.0	33.8



#113
tert-butylbenzene
Concen: 5.00 ug/L
RT: 15.42 min Scan# 2245
Delta R.T. 0.00 min
Lab File: 3C113354.D
Acq: 9 Sep 2014 12:28 am

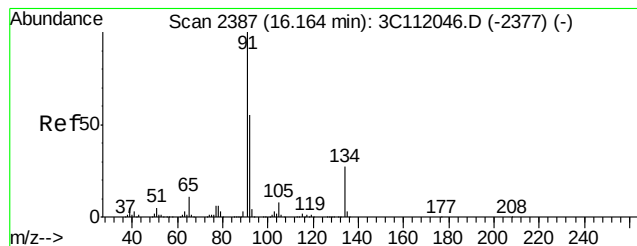
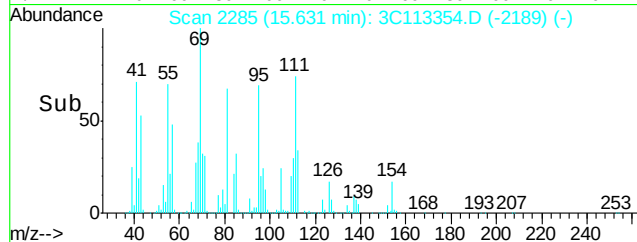
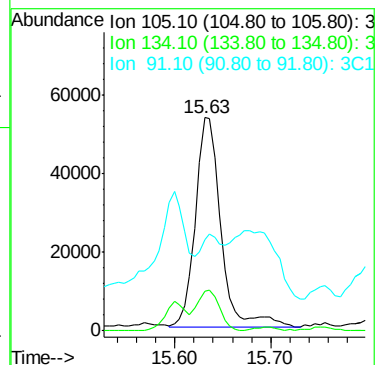
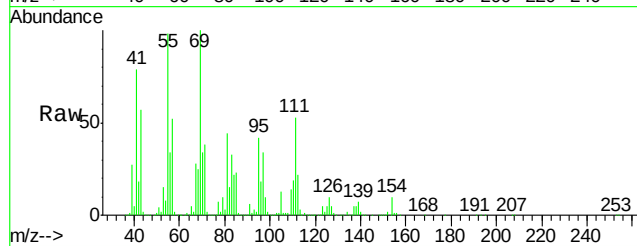
Tgt Ion	Ratio	Lower	Upper
119	100		
91	60.6	32.9	92.9
134	25.7	0.0	54.6





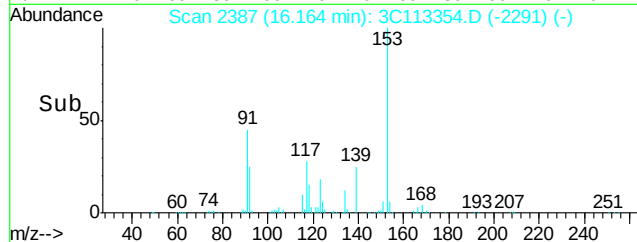
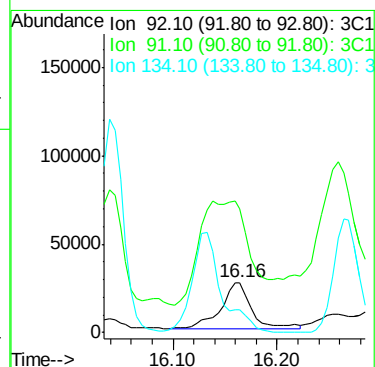
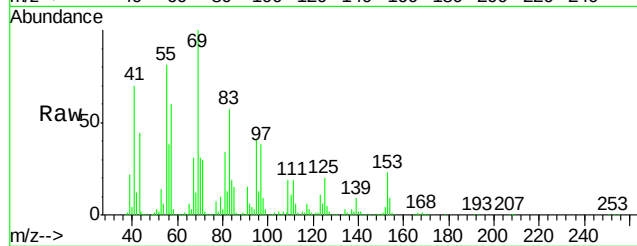
#116
sec-butylbenzene
Concen: 8.74 ug/L
RT: 15.63 min Scan# 2285
Delta R.T. 0.00 min
Lab File: 3C113354.D
Acq: 9 Sep 2014 12:28 am

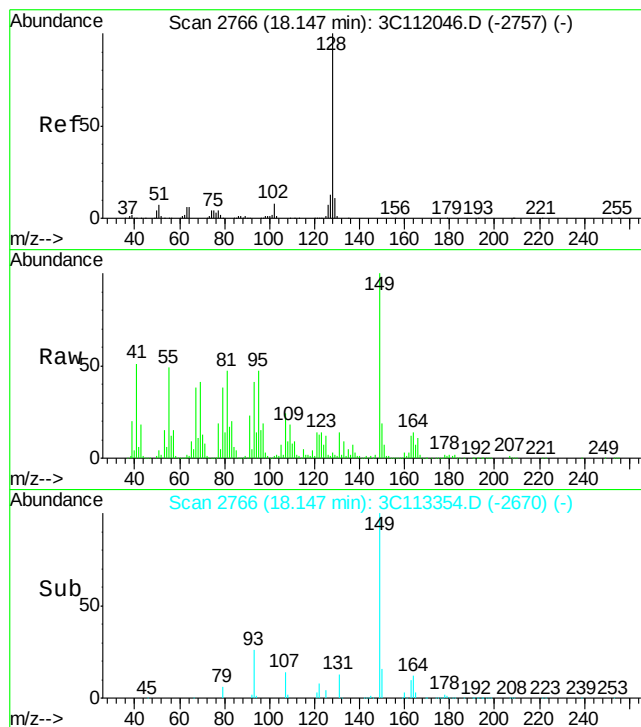
Tgt Ion	Ratio	Lower	Upper
105	100		
134	18.4	0.0	49.4
91	28.7	0.0	45.3



#122
n-butylbenzene
Concen: 11.72 ug/L
RT: 16.16 min Scan# 2387
Delta R.T. 0.00 min
Lab File: 3C113354.D
Acq: 9 Sep 2014 12:28 am

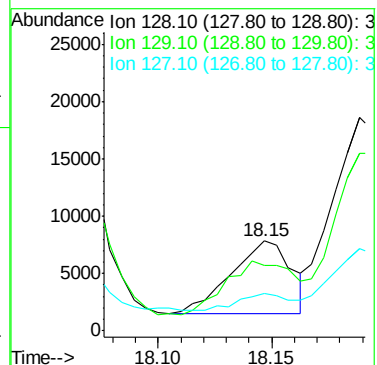
Tgt Ion	Ratio	Lower	Upper
92	100		
91	209.0	150.4	210.4
134	47.7	19.1	79.1





#128
naphthalene
Concen: 2.00 ug/L
RT: 18.15 min Scan# 2766
Delta R.T. 0.00 min
Lab File: 3C113354.D
Acq: 9 Sep 2014 12:28 am

Tgt Ion:	128	Resp:	11655
Ion Ratio	Lower	Upper	
128	100		
129	67.9	0.0	40.7#
127	19.9	0.0	43.3



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
 Data File : 4d51746.D
 Acq On : 8 Sep 2014 6:10 pm
 Operator : PayalR
 Sample : jB75844-6
 Misc : MS73407,V4D2303,5,,,,,1
 ALS Vial : 20 Sample Multiplier: 1

Quant Time: Sep 09 11:11:02 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M4D2264.M
 Quant Title : SW-846 Method 8260B/8260C
 QLast Update : Tue Aug 05 09:16:25 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Tert Butyl Alcohol-d9	6.993	65	92055	500.00	ug/L	0.00
4) pentafluorobenzene	9.583	168	201897	50.00	ug/L	0.00
51) 1,4-difluorobenzene	10.537	114	231866	50.00	ug/L	0.00
83) chlorobenzene-d5	13.908	117	206152	50.00	ug/L	0.00
98) 1,4-dichlorobenzene-d4	16.336	152	109635	50.00	ug/L	0.00
System Monitoring Compounds						
45) dibromofluoromethane (s)	9.562	113	87796	42.38	ug/L	0.00
Spiked Amount 50.000	Range 79 - 120		Recovery =	84.76%		
46) 1,2-dichloroethane-d4 (s)	10.018	65	88841	42.70	ug/L	0.00
Spiked Amount 50.000	Range 72 - 123		Recovery =	85.40%		
75) toluene-d8 (s)	12.299	98	288652	49.19	ug/L	0.00
Spiked Amount 50.000	Range 78 - 119		Recovery =	98.38%		
100) 4-bromofluorobenzene (s)	15.151	95	105724	45.00	ug/L	0.00
Spiked Amount 50.000	Range 74 - 119		Recovery =	90.00%		

Target Compounds Qvalue

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 4d51747.D
Acq On : 8 Sep 2014 6:37 pm
Operator : PayalR
Sample : jB75844-7
Misc : MS73407,V4D2303,5,,,,1
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Sep 09 11:11:25 2014
Quant Method : C:\MSDCHEM\1\METHODS\M4D2264.M
Quant Title : SW-846 Method 8260B/8260C
QLast Update : Tue Aug 05 09:16:25 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Tert Butyl Alcohol-d9	7.003	65	90422	500.00	ug/L	0.00
4) pentafluorobenzene	9.583	168	198872	50.00	ug/L	0.00
51) 1,4-difluorobenzene	10.537	114	229546	50.00	ug/L	0.00
83) chlorobenzene-d5	13.908	117	200614	50.00	ug/L	0.00
98) 1,4-dichlorobenzene-d4	16.336	152	106815	50.00	ug/L	0.00
System Monitoring Compounds						
45) dibromofluoromethane (s)	9.567	113	88340	43.29	ug/L	0.00
Spiked Amount	50.000	Range	79 - 120	Recovery	=	86.58%
46) 1,2-dichloroethane-d4 (s)	10.013	65	89794	43.81	ug/L	0.00
Spiked Amount	50.000	Range	72 - 123	Recovery	=	87.62%
75) toluene-d8 (s)	12.293	98	284791	49.02	ug/L	0.00
Spiked Amount	50.000	Range	78 - 119	Recovery	=	98.04%
100) 4-bromofluorobenzene (s)	15.151	95	104680	45.74	ug/L	0.00
Spiked Amount	50.000	Range	74 - 119	Recovery	=	91.48%

Target Compounds	Qvalue

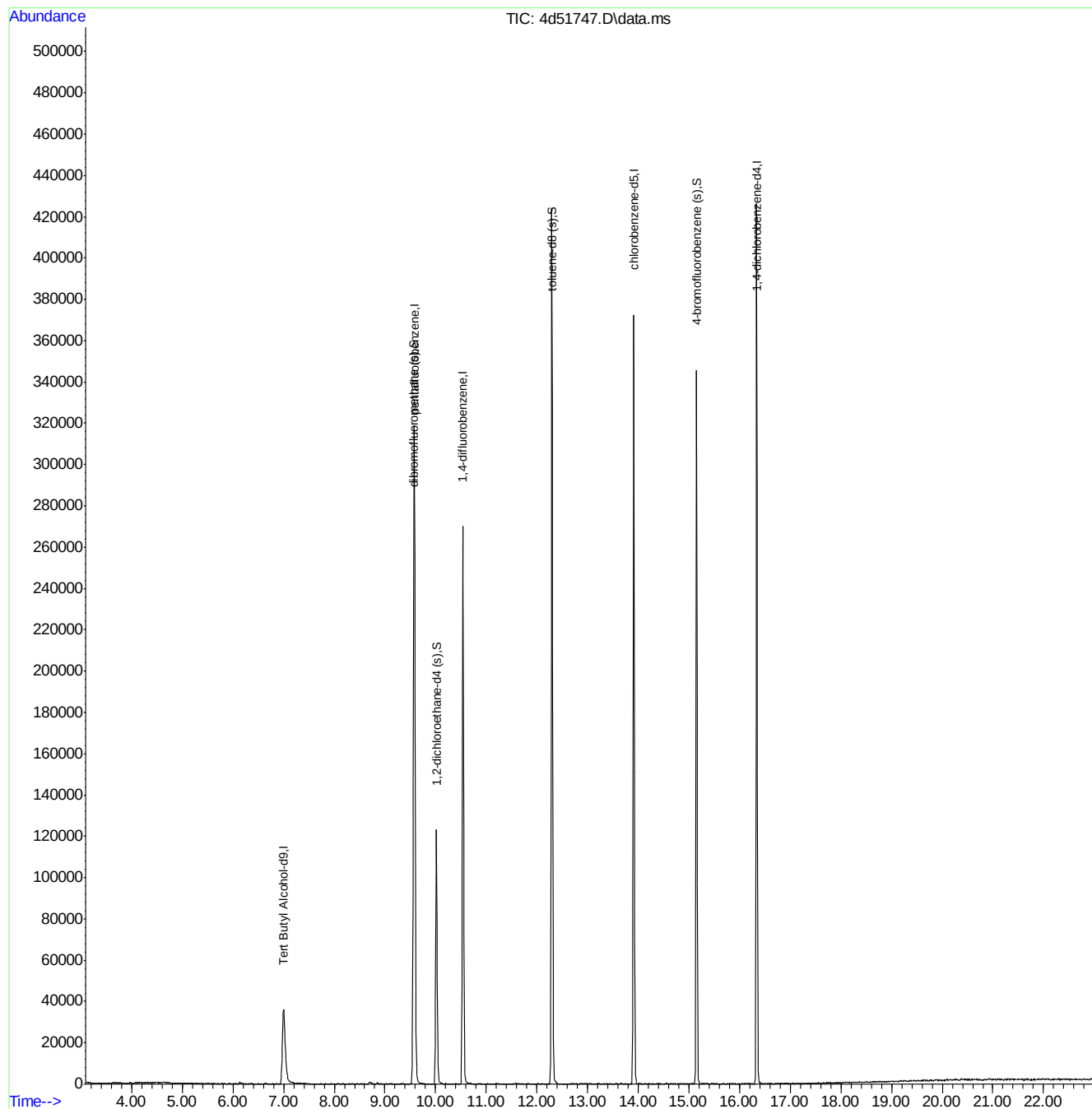
(#) = qualifier out of range (m) = manual integration (+) = signals summed

7.1.7
7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 4d51747.D
Acq On : 8 Sep 2014 6:37 pm
Operator : PayalR
Sample : jb75844-7
Misc : MS73407,V4D2303,5,,,,1
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Sep 09 11:11:25 2014
Quant Method : C:\MSDCHEM\1\METHODS\M4D2264.M
Quant Title : SW-846 Method 8260B/8260C
QLast Update : Tue Aug 05 09:16:25 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 4d51729.D
Acq On : 8 Sep 2014 10:01 am
Operator : PayalR
Sample : mb
Misc : MS73134,V4D2303,5,,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 08 16:01:08 2014
Quant Method : C:\MSDCHEM\1\METHODS\M4D2264.M
Quant Title : SW-846 Method 8260B/8260C
QLast Update : Fri Aug 22 16:59:22 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Tert Butyl Alcohol-d9	6.993	65	82495	500.00	ug/L	0.00
4) pentafluorobenzene	9.583	168	176963	50.00	ug/L	0.00
51) 1,4-difluorobenzene	10.537	114	205559	50.00	ug/L	0.00
83) chlorobenzene-d5	13.914	117	183545	50.00	ug/L	0.00
98) 1,4-dichlorobenzene-d4	16.341	152	96859	50.00	ug/L	0.00
System Monitoring Compounds						
45) dibromofluoromethane (s)	9.567	113	79674	43.88	ug/L	0.00
Spiked Amount 50.000	Range 79 - 120		Recovery =	87.76%		
46) 1,2-dichloroethane-d4 (s)	10.018	65	85166	46.70	ug/L	0.00
Spiked Amount 50.000	Range 72 - 123		Recovery =	93.40%		
75) toluene-d8 (s)	12.299	98	257192	49.43	ug/L	0.00
Spiked Amount 50.000	Range 78 - 119		Recovery =	98.86%		
100) 4-bromofluorobenzene (s)	15.151	95	94776	45.67	ug/L	0.00
Spiked Amount 50.000	Range 74 - 119		Recovery =	91.34%		

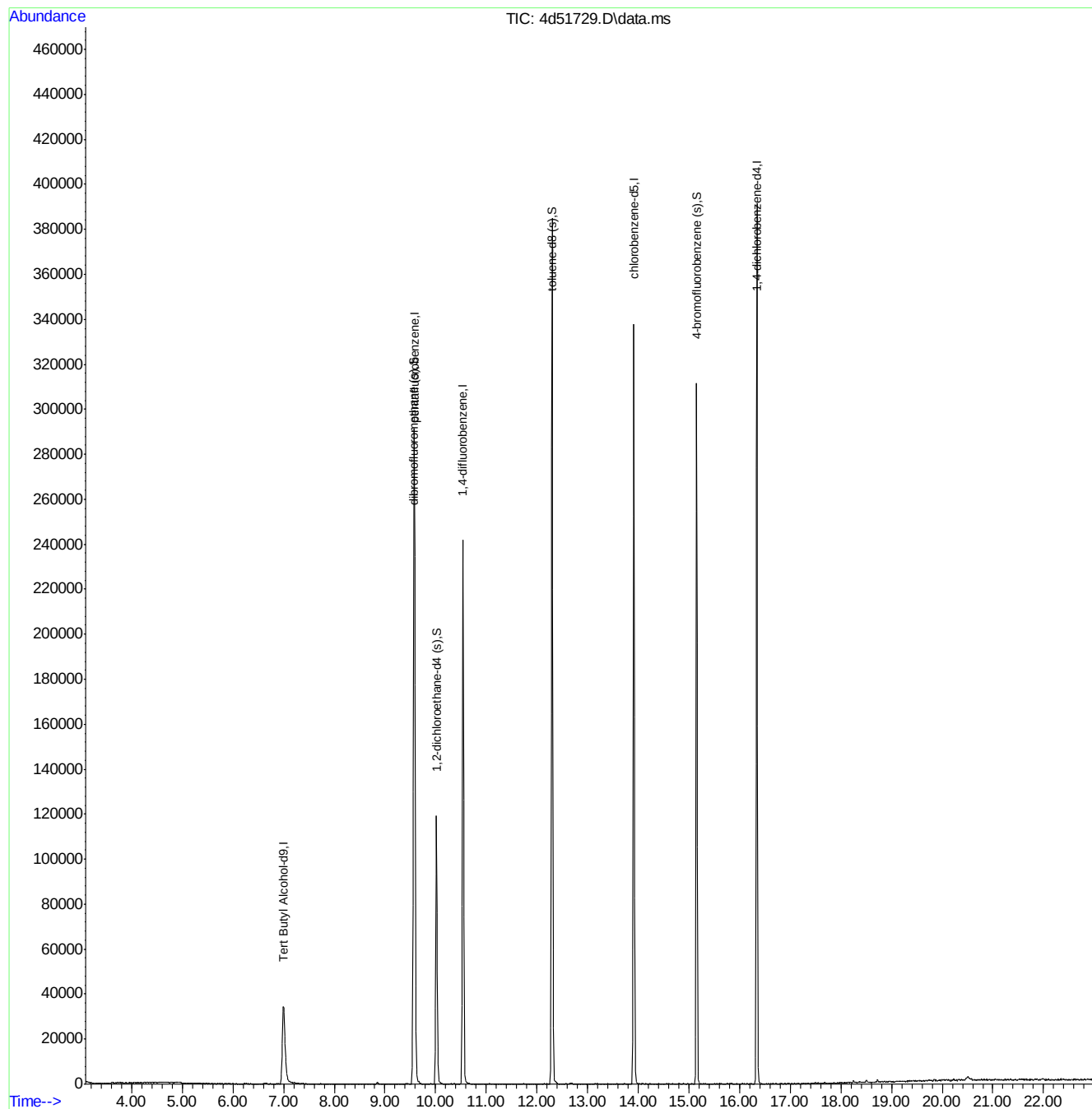
Target Compounds Qvalue

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 4d51729.D
Acq On : 8 Sep 2014 10:01 am
Operator : PayalR
Sample : mb
Misc : MS73134,V4D2303,5,,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 08 16:01:08 2014
Quant Method : C:\MSDCHEM\1\METHODS\M4D2264.M
Quant Title : SW-846 Method 8260B/8260C
QLast Update : Fri Aug 22 16:59:22 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\
Data File : 3C113333.D
Acq On : 8 Sep 2014 2:22 pm
Operator : prashans
Sample : MB
Misc : MS73315,V3C5123,5.0,,100,5,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 09 09:45:32 2014
Quant Method : C:\MSDCHEM\1\METHODS\M3C5053.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Tue Aug 26 17:19:34 2014
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Tert Butyl Alcohol-d9	7.30	65	59075	500.00	ug/L	0.00
5) pentafluorobenzene	9.53	168	244348	50.00	ug/L	0.00
54) 1,4-difluorobenzene	10.45	114	285004	50.00	ug/L	0.00
83) chlorobenzene-d5	13.58	117	249728	50.00	ug/L	0.00
99) 1,4-dichlorobenzene-d4	15.87	152	112499	50.00	ug/L	0.00

System Monitoring Compounds

45) dibromofluoromethane (s)	9.58	113	88638	49.33	ug/L	0.00
Spiked Amount	50.000	Range	59 - 130	Recovery	=	98.66%
46) 1,2-dichloroethane-d4 (s)	10.00	65	94312	51.14	ug/L	0.00
Spiked Amount	50.000	Range	65 - 123	Recovery	=	102.28%
75) toluene-d8 (s)	12.08	98	375073	54.09	ug/L	0.00
Spiked Amount	50.000	Range	80 - 124	Recovery	=	108.18%
101) 4-bromofluorobenzene (s)	14.72	95	126502	51.69	ug/L	0.00
Spiked Amount	50.000	Range	71 - 132	Recovery	=	103.38%

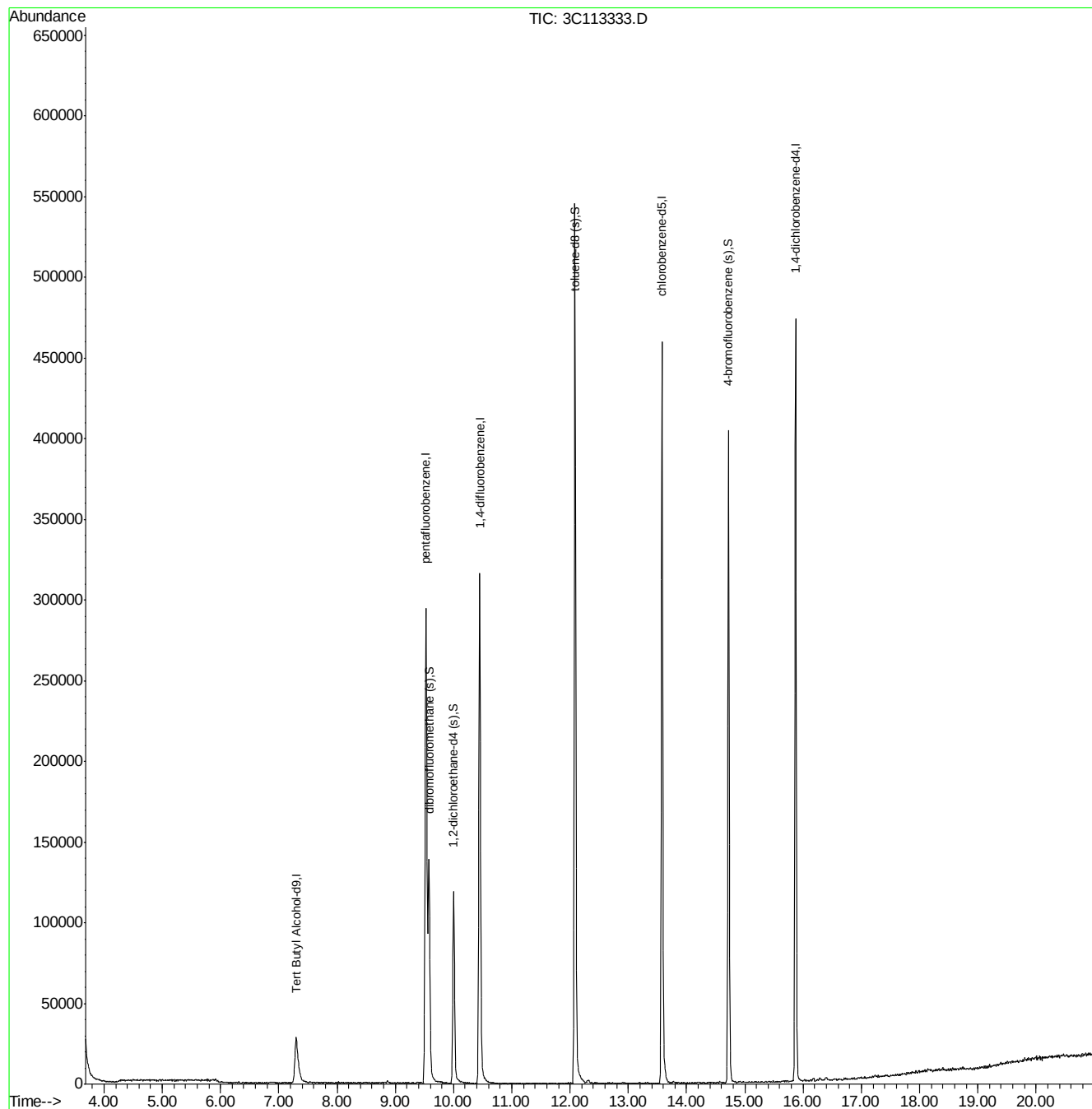
Target Compounds	Qvalue

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

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\
Data File : 3C113333.D
Acq On : 8 Sep 2014 2:22 pm
Operator : prashans
Sample : MB
Misc : MS73315,V3C5123,5.0,,100,5,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 09 09:45:32 2014
Quant Method : C:\MSDCHEM\1\METHODS\M3C5053.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Tue Aug 26 17:19:34 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\
Data File : 3C113346.D
Acq On : 8 Sep 2014 8:46 pm
Operator : prashans
Sample : MB
Misc : MS73315,V3C5124,5.0,,,,1
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Sep 09 10:03:37 2014
Quant Method : C:\MSDCHEM\1\METHODS\M3C5053.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Tue Aug 26 17:19:34 2014
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Tert Butyl Alcohol-d9	7.30	65	58702	500.00	ug/L	0.00
5) pentafluorobenzene	9.53	168	253828	50.00	ug/L	0.00
54) 1,4-difluorobenzene	10.45	114	282553	50.00	ug/L	0.00
83) chlorobenzene-d5	13.58	117	251394	50.00	ug/L	0.00
99) 1,4-dichlorobenzene-d4	15.88	152	121022	50.00	ug/L	0.00

System Monitoring Compounds

45) dibromofluoromethane (s)	9.58	113	87956	47.13	ug/L	0.00
Spiked Amount	50.000	Range 59 - 130	Recovery	=	94.26%	
46) 1,2-dichloroethane-d4 (s)	10.00	65	88767	46.34	ug/L	0.00
Spiked Amount	50.000	Range 65 - 123	Recovery	=	92.68%	
75) toluene-d8 (s)	12.08	98	363596	52.89	ug/L	0.00
Spiked Amount	50.000	Range 80 - 124	Recovery	=	105.78%	
101) 4-bromofluorobenzene (s)	14.72	95	127188	48.31	ug/L	0.00
Spiked Amount	50.000	Range 71 - 132	Recovery	=	96.62%	

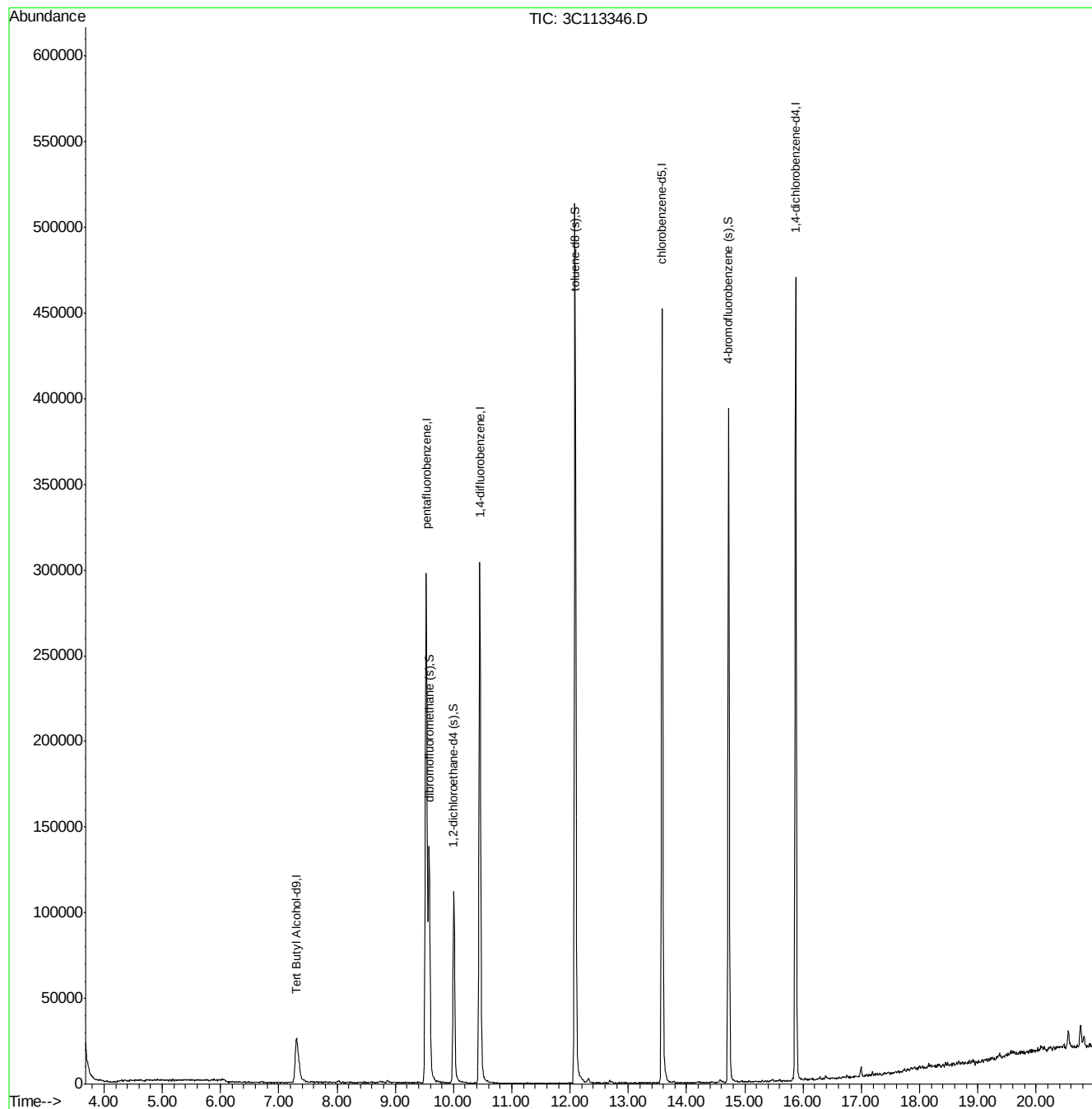
Target Compounds	Qvalue

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

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\
Data File : 3C113346.D
Acq On : 8 Sep 2014 8:46 pm
Operator : prashans
Sample : MB
Misc : MS73315,V3C5124,5.0,,,1
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Sep 09 10:03:37 2014
Quant Method : C:\MSDCHEM\1\METHODS\M3C5053.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Tue Aug 26 17:19:34 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
 Data File : 4d51730.D
 Acq On : 8 Sep 2014 10:37 am
 Operator : PayalR
 Sample : bs
 Misc : MS73134,V4D2303,5,,,,,1
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 08 16:02:51 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M4D2264.M
 Quant Title : SW-846 Method 8260B/8260C
 QLast Update : Fri Aug 22 16:59:22 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Tert Butyl Alcohol-d9	7.008	65	90345	500.00	ug/L	0.01
4) pentafluorobenzene	9.583	168	179667	50.00	ug/L	0.00
51) 1,4-difluorobenzene	10.542	114	207156	50.00	ug/L	0.00
83) chlorobenzene-d5	13.914	117	189613	50.00	ug/L	0.00
98) 1,4-dichlorobenzene-d4	16.341	152	103416	50.00	ug/L	0.00
System Monitoring Compounds						
45) dibromofluoromethane (s)	9.567	113	79792	43.28	ug/L	0.00
Spiked Amount 50.000	Range 79 - 120		Recovery =	86.56%		
46) 1,2-dichloroethane-d4 (s)	10.018	65	85398	46.12	ug/L	0.00
Spiked Amount 50.000	Range 72 - 123		Recovery =	92.24%		
75) toluene-d8 (s)	12.299	98	260702	49.72	ug/L	0.00
Spiked Amount 50.000	Range 78 - 119		Recovery =	99.44%		
100) 4-bromofluorobenzene (s)	15.151	95	98757	44.57	ug/L	0.00
Spiked Amount 50.000	Range 74 - 119		Recovery =	89.14%		
Target Compounds						
					Qvalue	
2) 1,4-dioxane	11.287	88	30916	1277.66	ug/L	# 89
3) tertiary butyl alcohol	7.140	59	65254	262.56	ug/L	98
5) chlorodifluoromethane	3.333	51	87287	54.32	ug/L	97
6) dichlorodifluoromethane	3.323	85	123609	57.79	ug/L	99
7) chloromethane	3.648	50	123333	46.86	ug/L	99
8) vinyl chloride	3.910	62	118488	48.26	ug/L	99
10) bromomethane	4.570	94	77838	48.66	ug/L	100
11) chloroethane	4.764	64	53678	51.37	ug/L	95
12) trichlorofluoromethane	5.320	101	133659	63.35	ug/L	99
14) ethyl ether	5.782	74	44748	49.98	ug/L	98
16) 2-chloropropane	5.965	43	128595	49.46	ug/L	96
17) acrolein	6.002	56	204271	422.01	ug/L	99
18) 1,1-dichloroethene	6.222	96	78328	50.23	ug/L	99
19) acetone	6.264	43	31363	48.39	ug/L	98
20) allyl chloride	6.814	76	45121	54.24	ug/L	89
21) acetonitrile	6.725	40	68100	525.61	ug/L	94
22) iodomethane	6.495	142	161849	51.03	ug/L	97
23) iso-butyl alcohol	9.871	41	43929	511.18	ug/L	96
24) carbon disulfide	6.631	76	297848	48.23	ug/L	99
25) methylene chloride	7.014	84	89455	46.89	ug/L	98
26) 1-chloropropane	7.077	42	130314	45.73	ug/L	95
27) methyl acetate	6.820	74	16613	49.75	ug/L	95
28) methyl tert butyl ether	7.454	73	488770	99.58	ug/L	97
29) trans-1,2-dichloroethene	7.465	96	82089	48.44	ug/L	97
30) di-isopropyl ether	8.188	45	265921	48.37	ug/L	97
31) ethyl tert-butyl ether	8.712	59	250166	46.68	ug/L	98
32) 2-butanone	8.927	72	12935	50.71	ug/L	93
33) 1,1-dichloroethane	8.115	63	155558	49.87	ug/L	99
34) chloroprene	8.256	53	116275	56.38	ug/L	97
35) acrylonitrile	7.370	53	210140	253.20	ug/L	98
36) vinyl acetate	8.146	86	14934	53.52	ug/L	92
37) ethyl acetate	8.990	45	15177	51.06	ug/L	96

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
 Data File : 4d51730.D
 Acq On : 8 Sep 2014 10:37 am
 Operator : PayalR
 Sample : bs
 Misc : MS73134,V4D2303,5,,,1
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 08 16:02:51 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M4D2264.M
 Quant Title : SW-846 Method 8260B/8260C
 QLast Update : Fri Aug 22 16:59:22 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
38) 2,2-dichloropropane	8.969	77	116469	52.58	ug/L	99
39) cis-1,2-dichloroethene	8.943	96	89959	47.17	ug/L	98
40) propionitrile	8.996	54	176423	496.58	ug/L	99
41) methyl acrylate	9.059	55	95037	48.06	ug/L #	98
42) bromochloromethane	9.273	128	49772	50.22	ug/L	94
43) tetrahydrofuran	9.342	42	33088	49.71	ug/L	100
44) chloroform	9.357	83	152592	49.53	ug/L	99
47) freon 113	6.243	151	67036	62.83	ug/L	96
48) methacrylonitrile	9.221	41	64147	50.59	ug/L	98
49) 1,1,1-trichloroethane	9.651	97	121171	53.31	ug/L	100
50) tert-amyl methyl ether	10.217	73	244157	48.14	ug/L	98
52) epichlorohydrin	11.848	57	61762	281.85	ug/L	99
53) n-butyl alcohol	10.679	56	183075	2649.81	ug/L	99
54) cyclohexane	9.751	84	108537	53.13	ug/L	97
56) carbon tetrachloride	9.876	117	115446	59.81	ug/L	98
57) 1,1-dichloropropene	9.850	75	108902	53.11	ug/L	100
58) hexane	7.895	57	61737	40.25	ug/L	99
59) benzene	10.123	78	325877	54.37	ug/L	99
60) ISO-OCTANE	10.212	57	284017	66.61	ug/L	97
61) heptane	10.401	57	60313	59.86	ug/L	100
62) isopropyl acetate	10.107	43	189772	55.18	ug/L	98
63) 1,2-dichloroethane	10.112	62	117823	57.66	ug/L	99
64) trichloroethene	10.894	95	85223	53.33	ug/L	96
66) 2-nitropropane	11.696	43	30009	54.93	ug/L	100
67) 2-chloroethyl vinyl ether	11.759	63	354281	272.60	ug/L	99
68) methyl methacrylate	11.219	41	86137	53.99	ug/L	98
69) 1,2-dichloropropane	11.161	63	92517	52.99	ug/L	94
70) methylcyclohexane	11.161	83	136669	62.08	ug/L	93
72) dibromomethane	11.303	93	64790	53.93	ug/L	96
73) bromodichloromethane	11.460	83	123802	54.98	ug/L	98
74) cis-1,3-dichloropropene	11.968	75	144124	51.88	ug/L	96
76) 4-methyl-2-pentanone	12.105	58	46002	51.34	ug/L	94
77) toluene	12.377	92	194852	54.46	ug/L	99
78) 3-methyl-1-butanol	12.120	70	66301	1079.35	ug/L	100
79) trans-1,3-dichloropropene	12.571	75	132319	49.34	ug/L	97
80) ethyl methacrylate	12.619	69	117623	48.01	ug/L	98
81) 1,1,2-trichloroethane	12.792	83	76555	48.72	ug/L	98
82) 2-hexanone	13.022	58	44528	50.33	ug/L	98
84) tetrachloroethene	13.007	166	95659	54.60	ug/L	98
85) 1,3-dichloropropane	12.991	76	137032	49.48	ug/L	99
86) butyl acetate	13.127	56	68726	51.28	ug/L	94
87) dibromochloromethane	13.263	129	108407	50.78	ug/L	99
88) 1,2-dibromoethane	13.421	107	96451	50.03	ug/L	98
90) chlorobenzene	13.945	112	232770	51.00	ug/L	99
91) 1,1,1,2-tetrachloroethane	14.013	131	89647	50.76	ug/L	99
92) ethylbenzene	14.034	91	381740	52.80	ug/L	100
93) m,p-xylene	14.150	106	286989	106.65	ug/L	99
94) o-xylene	14.595	106	144200	51.07	ug/L	99
95) styrene	14.600	104	244432	50.93	ug/L	99
97) bromoform	14.836	173	87980	49.33	ug/L	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
 Data File : 4d51730.D
 Acq On : 8 Sep 2014 10:37 am
 Operator : PayalR
 Sample : bs
 Misc : MS73134,V4D2303,5,,,,,1
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 08 16:02:51 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M4D2264.M
 Quant Title : SW-846 Method 8260B/8260C
 QLast Update : Fri Aug 22 16:59:22 2014
 Response via : Initial Calibration

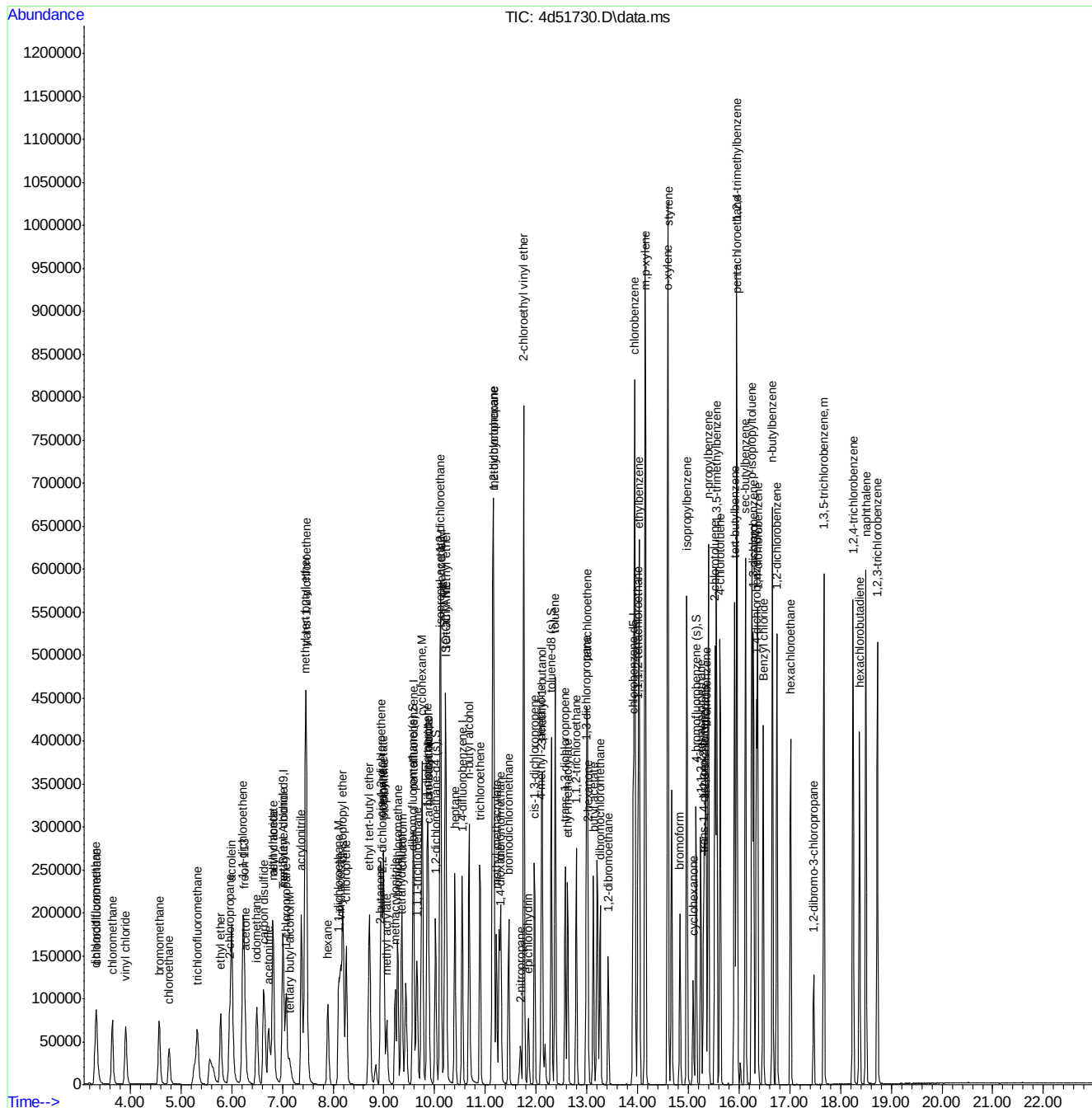
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
99)	isopropylbenzene	14.967	105	369633	52.22	ug/L	99
101)	bromobenzene	15.350	156	110204	48.84	ug/L	88
102)	cyclohexanone	15.093	55	51722	249.41	ug/L	96
103)	1,1,2,2-tetrachloroethane	15.245	83	142373	42.06	ug/L	99
104)	trans-1,4-dichloro-2-b...	15.298	53	34416	48.24	ug/L	93
105)	1,2,3-trichloropropane	15.324	110	33472	48.67	ug/L	94
106)	n-propylbenzene	15.397	91	463226	54.55	ug/L	99
107)	2-chlorotoluene	15.523	126	96259	50.07	ug/L	99
108)	4-chlorotoluene	15.628	91	277325	48.70	ug/L	100
109)	1,3,5-trimethylbenzene	15.555	105	314841	51.99	ug/L	100
110)	tert-butylbenzene	15.911	119	270324	52.19	ug/L	100
111)	pentachloroethane	15.958	167	74391	51.87	ug/L	96
112)	1,2,4-trimethylbenzene	15.953	105	331385	53.80	ug/L	99
113)	sec-butylbenzene	16.126	105	425270	53.18	ug/L	100
114)	1,3-dichlorobenzene	16.283	146	201300	49.21	ug/L	100
115)	p-isopropyltoluene	16.252	119	351184	54.58	ug/L	100
116)	1,4-dichlorobenzene	16.367	146	206147	47.86	ug/L	100
117)	1,2-dichlorobenzene	16.745	146	203200	47.48	ug/L	98
118)	n-butylbenzene	16.656	92	191411	54.71	ug/L	99
119)	1,2-dibromo-3-chloropr...	17.468	75	28570	48.93	ug/L	97
120)	1,3,5-trichlorobenzene	17.673	180	176015	51.26	ug/L	99
121)	1,2,4-trichlorobenzene	18.244	180	165048	51.16	ug/L	99
122)	hexachlorobutadiene	18.375	225	85497	57.15	ug/L	100
123)	naphthalene	18.501	128	432462	48.50	ug/L	100
124)	1,2,3-trichlorobenzene	18.727	180	163782	51.58	ug/L	99
125)	hexachloroethane	17.012	119	79504	52.87	ug/L	98
126)	Benzyl chloride	16.477	91	278056	59.11	ug/L	100

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

Quantitation Report (QT Reviewed)

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Data Path : C:\msdchem\1\data\  
Data File : 4d51730.D  
Acq On : 8 Sep 2014 10:37 am  
Operator : PayalR  
Sample : bs  
Misc : MS73134,V4D2303,5,,,,,1  
ALS Vial : 4 Sample Multiplier: 1
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Quant Time: Sep 08 16:02:51 2014
Quant Method : C:\MSDCHEM\1\METHODS\M4D2264.M
Quant Title : SW-846 Method 8260B/8260C
QLast Update : Fri Aug 22 16:59:22 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\
 Data File : 3C113334.D
 Acq On : 8 Sep 2014 2:50 pm
 Operator : prashans
 Sample : BS
 Misc : MS73404,V3C5123,5.0,,100,5,1
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 09 09:46:06 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M3C5053.M
 Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
 QLast Update : Tue Aug 26 17:19:34 2014
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Tert Butyl Alcohol-d9	7.30	65	59033	500.00	ug/L	0.00
5) pentafluorobenzene	9.53	168	223369	50.00	ug/L	-0.01
54) 1,4-difluorobenzene	10.45	114	260980	50.00	ug/L	0.00
83) chlorobenzene-d5	13.58	117	236535	50.00	ug/L	0.00
99) 1,4-dichlorobenzene-d4	15.87	152	118008	50.00	ug/L	0.00

System Monitoring Compounds

45) dibromofluoromethane (s)	9.58	113	82063	49.96	ug/L	0.00
Spiked Amount	50.000	Range	59 - 130	Recovery	=	99.92%
46) 1,2-dichloroethane-d4 (s)	10.00	65	87141	51.69	ug/L	0.00
Spiked Amount	50.000	Range	65 - 123	Recovery	=	103.38%
75) toluene-d8 (s)	12.08	98	347738	54.76	ug/L	0.00
Spiked Amount	50.000	Range	80 - 124	Recovery	=	109.52%
101) 4-bromofluorobenzene (s)	14.72	95	126169	49.15	ug/L	0.00
Spiked Amount	50.000	Range	71 - 132	Recovery	=	98.30%

Target Compounds

						Qvalue
2) 1,4-dioxane	11.16	88	21942	1439.54	ug/L	# 93
3) tertiary butyl alcohol	7.41	59	50990	302.93	ug/L	66
6) chlorodifluoromethane	3.96	51	102031	49.91	ug/L	96
7) dichlorodifluoromethane	3.95	85	142821	58.52	ug/L	98
8) chloromethane	4.29	50	161417	58.83	ug/L	97
9) vinyl chloride	4.54	62	150188	58.63	ug/L	100
10) bromomethane	5.19	94	96995	58.41	ug/L	98
11) chloroethane	5.36	64	89367	65.54	ug/L	100
15) trichlorofluoromethane	5.81	101	172616	60.51	ug/L	96
16) ethyl ether	6.22	74	57916	57.47	ug/L	95
17) acrolein	6.46	56	153213	547.01	ug/L	98
18) 1,1-dichloroethene	6.63	61	156175	57.04	ug/L	94
19) acetone	6.61	58	230	1.21	ug/L	85
20) allyl chloride	7.16	76	62334	64.41	ug/L	# 82
21) acetonitrile	7.11	40	73415	616.14	ug/L	92
22) iodomethane	6.91	142	165667	55.79	ug/L	99
23) iso-butyl alcohol	9.81	41	28963	568.57	ug/L	90
24) carbon disulfide	7.04	76	344120	54.46	ug/L	95
25) methylene chloride	7.34	84	111352	58.14	ug/L	94
26) methyl acetate	7.14	74	12203	54.57	ug/L	# 86
27) methyl tert butyl ether	7.67	73	586891	114.12	ug/L	89
28) trans-1,2-dichloroethene	7.72	61	147359	56.48	ug/L	92
29) di-isopropyl ether	8.26	45	374563	62.11	ug/L	97
30) ethyl tert-butyl ether	8.73	59	335630	57.38	ug/L	95
31) 2-butanone	8.98	72	10031	51.09	ug/L	66
32) 1,1-dichloroethane	8.28	63	195279	59.82	ug/L	99
33) chloroprene	8.39	53	159930	61.86	ug/L	94
34) acrylonitrile	7.66	53	145392	313.39	ug/L	97
35) vinyl acetate	8.27	86	17214	60.42	ug/L	58
36) ethyl acetate	9.00	45	11046	56.52	ug/L	55
37) 2,2-dichloropropane	9.02	77	168544	56.62	ug/L	99
38) cis-1,2-dichloroethene	9.01	61	182685	58.35	ug/L	99
39) propionitrile	9.07	54	113338	603.52	ug/L	83

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\
 Data File : 3C113334.D
 Acq On : 8 Sep 2014 2:50 pm
 Operator : prashans
 Sample : BS
 Misc : MS73404,V3C5123,5.0,,100,5,1
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 09 09:46:06 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M3C5053.M
 Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
 QLast Update : Tue Aug 26 17:19:34 2014
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
40) Methyl Acrylate	9.08	85	11911	57.79	ug/L	100
41) bromochloromethane	9.32	128	51057	58.64	ug/L	91
42) tetrahydrofuran	9.37	72	11489	59.73	ug/L	97
43) chloroform	9.38	83	186073	58.79	ug/L	96
44) tert-Butyl Formate	9.42	59	84914	73.75	ug/L #	97
47) freon 113	6.60	151	82069	60.30	ug/L	98
48) methacrylonitrile	9.26	41	48093	60.12	ug/L	100
49) 1,1,1-trichloroethane	9.64	97	164985	56.80	ug/L	96
50) Cyclohexane	9.72	84	161717	50.76	ug/L	86
52) 2,2,4-trimethylpentane	10.08	57	413784	62.70	ug/L	96
53) tert-amyl methyl ether	10.11	73	305145	56.46	ug/L	97
55) epichlorohydrin	11.70	57	40184	308.41	ug/L	99
56) n-butyl alcohol	10.56	56	127381	2880.79	ug/L	92
57) carbon tetrachloride	9.85	117	145013	56.05	ug/L	99
58) 1,1-dichloropropene	9.82	75	136899	53.80	ug/L	97
59) hexane	8.02	57	113864	47.23	ug/L	98
60) benzene	10.08	78	435839	57.05	ug/L	97
61) heptane	10.25	57	84839	57.25	ug/L	97
62) isopropyl acetate	10.00	87	18437	55.86	ug/L	96
63) 1,2-dichloroethane	10.09	62	135284	65.48	ug/L	97
64) trichloroethene	10.79	95	104959	57.92	ug/L	92
67) 2-nitropropane	11.55	41	35157	74.34	ug/L	94
68) 2-chloroethyl vinyl ether	11.58	63	232012	315.75	ug/L	96
69) methyl methacrylate	11.05	100	21571	56.60	ug/L #	40
70) 1,2-dichloropropane	11.05	63	114013	64.90	ug/L	99
71) methylcyclohexane	11.01	83	187611	58.70	ug/L	93
72) dibromomethane	11.21	93	57497	63.71	ug/L	98
73) bromodichloromethane	11.34	83	147484	65.99	ug/L	95
74) cis-1,3-dichloropropene	11.80	75	173724	62.47	ug/L	89
76) 4-methyl-2-pentanone	11.89	58	34180	65.25	ug/L	94
77) toluene	12.16	91	466497	59.65	ug/L	99
78) 3-methyl-1-butanol	11.90	70	50038	1202.09	ug/L	91
79) trans-1,3-dichloropropene	12.35	75	152357	63.91	ug/L	84
80) ethyl methacrylate	12.34	69	117943	63.29	ug/L	94
81) 1,1,2-trichloroethane	12.57	97	84620	64.53	ug/L	98
82) 2-hexanone	12.73	58	30760	62.37	ug/L	91
84) tetrachloroethene	12.74	166	119624	49.31	ug/L	98
85) 1,3-dichloropropane	12.74	76	151039	56.15	ug/L	99
86) butyl acetate	12.81	56	56792	53.10	ug/L	89
87) dibromochloromethane	13.01	129	103540	54.68	ug/L	98
88) 1,2-dibromoethane	13.16	107	84923	56.72	ug/L	95
89) 3,3-Dimethyl-1-Butanol	12.90	57	89472	526.90	ug/L	99
90) chlorobenzene	13.61	112	299871	52.92	ug/L	94
91) 1,1,1,2-tetrachloroethane	13.67	131	116527	56.42	ug/L	97
92) ethylbenzene	13.66	91	546159	55.46	ug/L	98
93) m,p-xylene	13.77	106	417661	112.51	ug/L	97
94) o-xylene	14.18	91	448694	56.92	ug/L	98
95) styrene	14.19	104	335645	58.04	ug/L	97
98) bromoform	14.45	173	70259	58.28	ug/L	100
100) isopropylbenzene	14.52	105	545556	53.94	ug/L	97

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\
Data File : 3C113334.D
Acq On : 8 Sep 2014 2:50 pm
Operator : prashans
Sample : BS
Misc : MS73404,V3C5123,5.0,,100,5,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 09 09:46:06 2014
Quant Method : C:\MSDCHEM\1\METHODS\M3C5053.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Tue Aug 26 17:19:34 2014
Response via : Initial Calibration

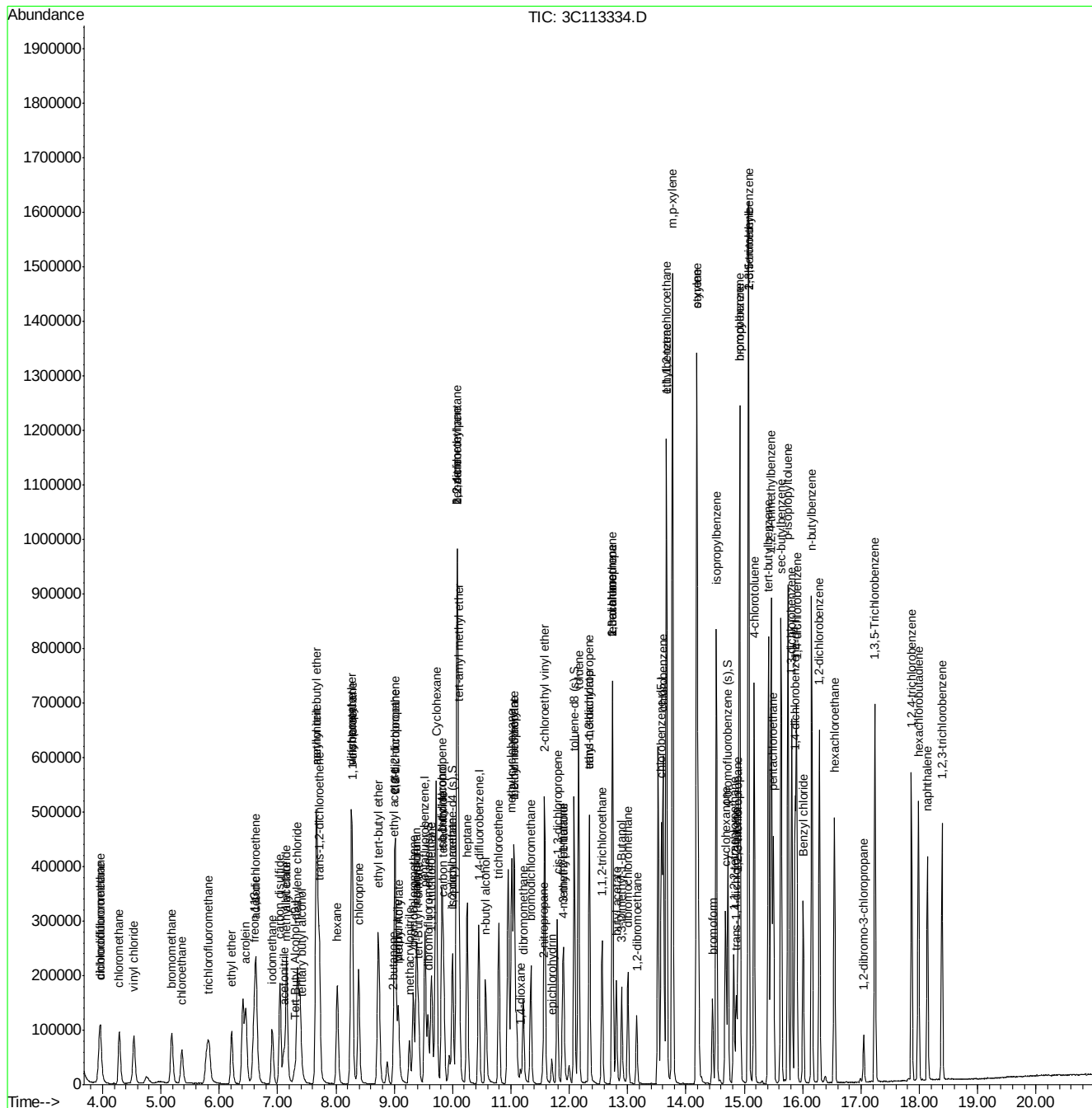
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
102) bromobenzene	14.91	156	135252	56.00	ug/L	94
104) cyclohexanone	14.68	55	133875	348.22	ug/L	93
105) 1,1,2,2-tetrachloroethane	14.82	83	116313	55.49	ug/L	99
106) trans-1,4-dichloro-2-buten	14.86	53	32434	62.33	ug/L	95
107) 1,2,3-trichloropropane	14.89	110	31339	56.17	ug/L	99
108) n-propylbenzene	14.92	91	663550	58.71	ug/L	98
110) 2-chlorotoluene	15.07	126	132987	55.61	ug/L	89
111) 4-chlorotoluene	15.17	126	131182	55.45	ug/L	90
112) 1,3,5-trimethylbenzene	15.07	105	467682	55.77	ug/L	97
113) tert-butylbenzene	15.42	119	400780	54.81	ug/L	96
114) pentachloroethane	15.50	167	88608	58.49	ug/L	96
115) 1,2,4-trimethylbenzene	15.46	105	474689	58.12	ug/L	99
116) sec-butylbenzene	15.63	105	607948	56.06	ug/L	99
117) 1,3-dichlorobenzene	15.81	146	258661	54.31	ug/L	99
118) p-isopropyltoluene	15.75	119	499720	54.89	ug/L	97
119) 1,4-dichlorobenzene	15.90	146	254698	53.09	ug/L	99
120) 1,2-dichlorobenzene	16.28	146	243687	54.75	ug/L	98
122) n-butylbenzene	16.15	92	266812	60.38	ug/L	97
124) 1,2-dibromo-3-chloropropan	17.05	157	21563	51.37	ug/L	93
125) 1,3,5-Trichlorobenzene	17.24	180	209934	54.31	ug/L	99
126) 1,2,4-trichlorobenzene	17.87	180	168828	55.97	ug/L	98
127) hexachlorobutadiene	17.98	225	106831	51.78	ug/L	98
128) naphthalene	18.14	128	312770	55.28	ug/L	99
129) 1,2,3-trichlorobenzene	18.39	180	147444	55.49	ug/L	98
130) hexachloroethane	16.54	119	97293	55.14	ug/L	97
131) Benzyl chloride	16.01	91	229466	58.57	ug/L	98

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

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\
Data File : 3C113334.D
Acq On : 8 Sep 2014 2:50 pm
Operator : prashans
Sample : BS
Misc : MS73404,V3C5123,5.0,,100,5,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 09 09:46:06 2014
Quant Method : C:\MSDCHEM\1\METHODS\M3C5053.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Tue Aug 26 17:19:34 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\
 Data File : 3C113347.D
 Acq On : 8 Sep 2014 9:14 pm
 Operator : prashans
 Sample : BS
 Misc : MS73404,V3C5124,5.0,,,,,1
 ALS Vial : 18 Sample Multiplier: 1

Quant Time: Sep 09 10:04:20 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M3C5053.M
 Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
 QLast Update : Tue Aug 26 17:19:34 2014
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Tert Butyl Alcohol-d9	7.31	65	80136	500.00	ug/L	0.00
5) pentafluorobenzene	9.53	168	303231	50.00	ug/L	0.00
54) 1,4-difluorobenzene	10.45	114	346437	50.00	ug/L	0.00
83) chlorobenzene-d5	13.58	117	311007	50.00	ug/L	0.00
99) 1,4-dichlorobenzene-d4	15.87	152	155858	50.00	ug/L	0.00

System Monitoring Compounds

45) dibromofluoromethane (s)	9.58	113	109489	49.11	ug/L	0.00
Spiked Amount	50.000	Range	59 - 130	Recovery	=	98.22%
46) 1,2-dichloroethane-d4 (s)	10.00	65	109722	47.94	ug/L	0.00
Spiked Amount	50.000	Range	65 - 123	Recovery	=	95.88%
75) toluene-d8 (s)	12.08	98	447130	53.04	ug/L	0.00
Spiked Amount	50.000	Range	80 - 124	Recovery	=	106.08%
101) 4-bromofluorobenzene (s)	14.72	95	163713	48.28	ug/L	0.00
Spiked Amount	50.000	Range	71 - 132	Recovery	=	96.56%

Target Compounds

						Qvalue
2) 1,4-dioxane	11.16	88	27172	1313.21	ug/L	# 94
3) tertiary butyl alcohol	7.42	59	60484	264.70	ug/L	82
6) chlorodifluoromethane	3.97	51	111628	40.22	ug/L	97
7) dichlorodifluoromethane	3.96	85	151128	45.61	ug/L	98
8) chloromethane	4.29	50	167176	44.88	ug/L	99
9) vinyl chloride	4.55	62	160768	46.23	ug/L	99
10) bromomethane	5.19	94	118444	52.54	ug/L	99
11) chloroethane	5.36	64	99827	53.93	ug/L	99
15) trichlorofluoromethane	5.82	101	204626	52.84	ug/L	94
16) ethyl ether	6.22	74	68928	50.39	ug/L	93
17) acrolein	6.46	56	164148	431.70	ug/L	99
18) 1,1-dichloroethene	6.64	61	173982	46.80	ug/L	99
19) acetone	6.68	58	13118	50.74	ug/L	98
20) allyl chloride	7.16	76	72064	54.86	ug/L	# 84
21) acetonitrile	7.11	40	82045	507.22	ug/L	92
22) iodomethane	6.91	142	204373	50.70	ug/L	99
23) iso-butyl alcohol	9.81	41	32878	475.44	ug/L	95
24) carbon disulfide	7.04	76	389656	45.43	ug/L	95
25) methylene chloride	7.35	84	128583	49.45	ug/L	97
26) methyl acetate	7.15	74	14471	47.67	ug/L	91
27) methyl tert butyl ether	7.68	73	696608	99.78	ug/L	90
28) trans-1,2-dichloroethene	7.72	61	164190	46.36	ug/L	97
29) di-isopropyl ether	8.27	45	410918	50.19	ug/L	96
30) ethyl tert-butyl ether	8.73	59	386869	48.72	ug/L	97
31) 2-butanone	8.98	72	14190	53.24	ug/L	92
32) 1,1-dichloroethane	8.28	63	219290	49.49	ug/L	99
33) chloroprene	8.39	53	180702	51.49	ug/L	96
34) acrylonitrile	7.66	53	164081	260.53	ug/L	96
35) vinyl acetate	8.27	86	21016	54.34	ug/L	81
36) ethyl acetate	9.00	45	12629	47.60	ug/L	97
37) 2,2-dichloropropane	9.02	77	191405	47.36	ug/L	99
38) cis-1,2-dichloroethene	9.02	61	206090	48.49	ug/L	97
39) propionitrile	9.07	54	128306	503.28	ug/L	97

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\
 Data File : 3C113347.D
 Acq On : 8 Sep 2014 9:14 pm
 Operator : prashans
 Sample : BS
 Misc : MS73404,V3C5124,5.0,,,,,1
 ALS Vial : 18 Sample Multiplier: 1

Quant Time: Sep 09 10:04:20 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M3C5053.M
 Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
 QLast Update : Tue Aug 26 17:19:34 2014
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
40) Methyl Acrylate	9.08	85	13943	49.93	ug/L	90
41) bromochloromethane	9.33	128	61980	52.44	ug/L	97
42) tetrahydrofuran	9.38	72	13073	50.06	ug/L	94
43) chloroform	9.38	83	216372	50.36	ug/L	96
44) tert-Butyl Formate	9.42	59	100140	64.07	ug/L #	95
47) freon 113	6.61	151	101944	55.18	ug/L	98
48) methacrylonitrile	9.26	41	53616	49.38	ug/L	98
49) 1,1,1-trichloroethane	9.64	97	193477	49.06	ug/L	96
50) Cyclohexane	9.72	84	184293	42.61	ug/L	94
52) 2,2,4-trimethylpentane	10.08	57	462085	51.57	ug/L	96
53) tert-amyl methyl ether	10.11	73	366769	49.99	ug/L	99
55) epichlorohydrin	11.70	57	46614	269.51	ug/L	97
56) n-butyl alcohol	10.57	56	149452	2546.20	ug/L	96
57) carbon tetrachloride	9.85	117	171827	50.03	ug/L	99
58) 1,1-dichloropropene	9.82	75	152629	45.18	ug/L	98
59) hexane	8.03	57	125367	38.41	ug/L	96
60) benzene	10.08	78	498762	49.18	ug/L	99
61) heptane	10.25	57	94823	48.20	ug/L	99
62) isopropyl acetate	10.00	87	23148	52.83	ug/L #	79
63) 1,2-dichloroethane	10.09	62	152086	55.45	ug/L	99
64) trichloroethene	10.79	95	124006	51.55	ug/L	95
67) 2-nitropropane	11.56	41	39233	62.49	ug/L	99
68) 2-chloroethyl vinyl ether	11.58	63	261979	268.59	ug/L	99
69) methyl methacrylate	11.06	100	27363	54.09	ug/L #	70
70) 1,2-dichloropropane	11.05	63	126949	54.44	ug/L	97
71) methylcyclohexane	11.02	83	220520	51.98	ug/L	96
72) dibromomethane	11.22	93	69271	57.82	ug/L	96
73) bromodichloromethane	11.34	83	171878	57.93	ug/L	96
74) cis-1,3-dichloropropene	11.80	75	198331	53.72	ug/L	89
76) 4-methyl-2-pentanone	11.89	58	39008	56.10	ug/L	97
77) toluene	12.16	91	538223	51.85	ug/L	98
78) 3-methyl-1-butanol	11.91	70	60998	1103.92	ug/L	98
79) trans-1,3-dichloropropene	12.35	75	176656	55.82	ug/L	84
80) ethyl methacrylate	12.34	69	139065	56.21	ug/L	98
81) 1,1,2-trichloroethane	12.57	97	98269	56.45	ug/L	99
82) 2-hexanone	12.73	58	39413	60.20	ug/L	92
84) tetrachloroethene	12.74	166	150495	47.18	ug/L	97
85) 1,3-dichloropropane	12.74	76	175420	49.60	ug/L	100
86) butyl acetate	12.81	56	65585	46.63	ug/L	91
87) dibromochloromethane	13.01	129	125731	50.50	ug/L	97
88) 1,2-dibromoethane	13.16	107	100035	50.81	ug/L	100
89) 3,3-Dimethyl-1-Butanol	12.90	57	103735	464.61	ug/L	99
90) chlorobenzene	13.61	112	354395	47.57	ug/L	96
91) 1,1,1,2-tetrachloroethane	13.67	131	140411	51.71	ug/L	96
92) ethylbenzene	13.66	91	632769	48.87	ug/L	99
93) m,p-xylene	13.77	106	490723	100.54	ug/L	99
94) o-xylene	14.18	91	519112	50.08	ug/L	100
95) styrene	14.19	104	401169	52.76	ug/L	99
98) bromoform	14.45	173	87050	54.92	ug/L	99
100) isopropylbenzene	14.52	105	632363	47.34	ug/L	99

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\
Data File : 3C113347.D
Acq On : 8 Sep 2014 9:14 pm
Operator : prashans
Sample : BS
Misc : MS73404,V3C5124,5.0,,,1
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Sep 09 10:04:20 2014
Quant Method : C:\MSDCHEM\1\METHODS\M3C5053.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Tue Aug 26 17:19:34 2014
Response via : Initial Calibration

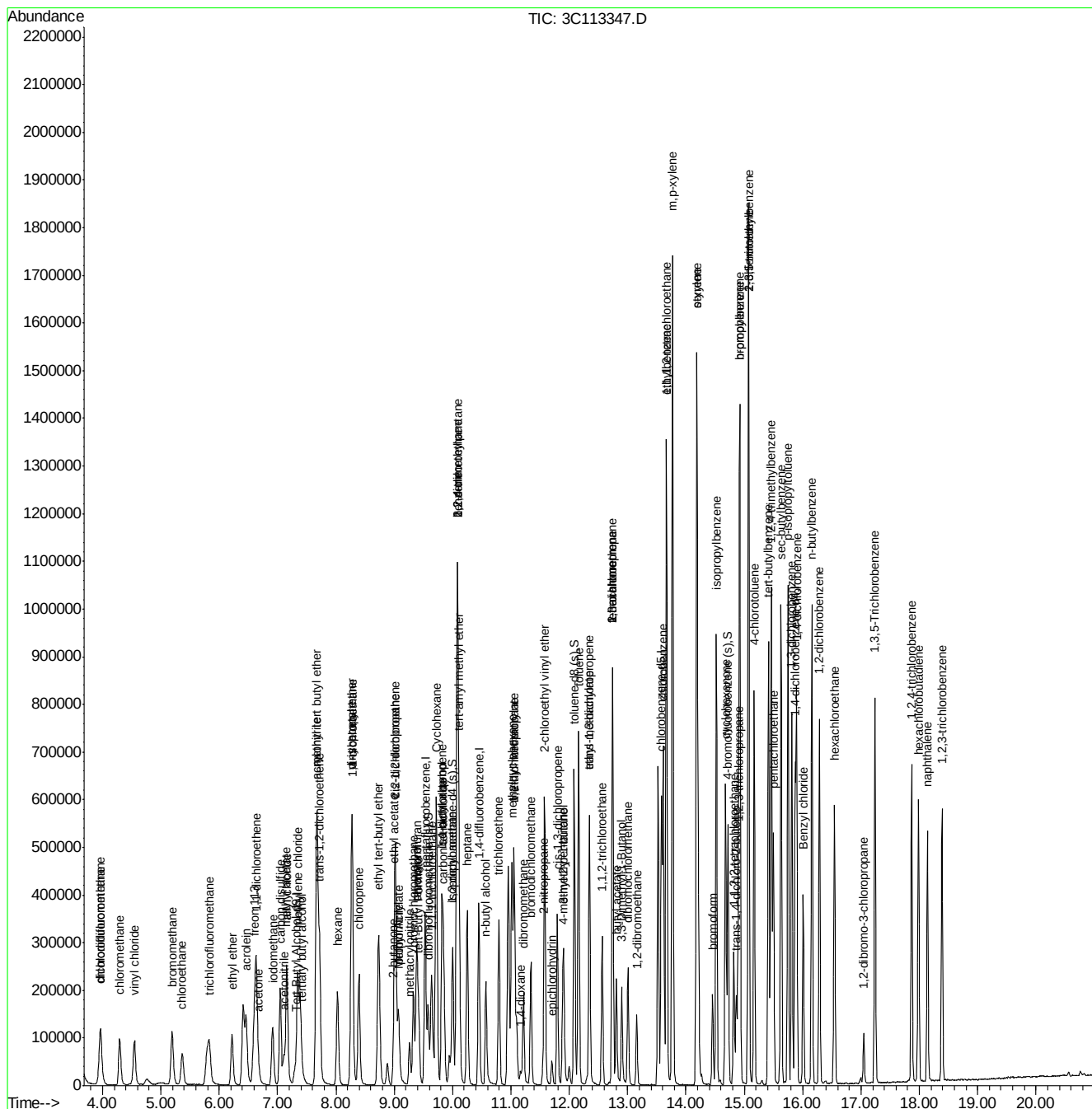
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
102) bromobenzene	14.91	156	165404	51.85	ug/L	99
104) cyclohexanone	14.68	55	259673	511.40	ug/L	95
105) 1,1,2,2-tetrachloroethane	14.82	83	135144	48.82	ug/L	99
106) trans-1,4-dichloro-2-buten	14.86	53	36862	53.63	ug/L	93
107) 1,2,3-trichloropropane	14.89	110	37432	50.80	ug/L	98
108) n-propylbenzene	14.92	91	761126	50.99	ug/L	99
110) 2-chlorotoluene	15.07	126	158202	50.08	ug/L	97
111) 4-chlorotoluene	15.17	126	155216	49.68	ug/L	95
112) 1,3,5-trimethylbenzene	15.07	105	544754	49.18	ug/L	98
113) tert-butylbenzene	15.42	119	466039	48.25	ug/L	96
114) pentachloroethane	15.50	167	104706	52.33	ug/L	97
115) 1,2,4-trimethylbenzene	15.46	105	554982	51.45	ug/L	100
116) sec-butylbenzene	15.63	105	698564	48.77	ug/L	98
117) 1,3-dichlorobenzene	15.82	146	310864	49.42	ug/L	98
118) p-isopropyltoluene	15.75	119	580249	48.25	ug/L	98
119) 1,4-dichlorobenzene	15.90	146	309604	48.86	ug/L	98
120) 1,2-dichlorobenzene	16.28	146	298201	50.73	ug/L	99
122) n-butylbenzene	16.16	92	298140	51.09	ug/L	98
124) 1,2-dibromo-3-chloropropan	17.05	157	26656	48.08	ug/L	92
125) 1,3,5-Trichlorobenzene	17.24	180	250775	49.12	ug/L	99
126) 1,2,4-trichlorobenzene	17.87	180	203929	51.19	ug/L	98
127) hexachlorobutadiene	17.98	225	125227	45.96	ug/L	98
128) naphthalene	18.14	128	388118	51.94	ug/L	99
129) 1,2,3-trichlorobenzene	18.39	180	182244	51.93	ug/L	98
130) hexachloroethane	16.55	119	113212	48.58	ug/L	98
131) Benzyl chloride	16.01	91	275662	53.27	ug/L	99

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

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\
Data File : 3C113347.D
Acq On : 8 Sep 2014 9:14 pm
Operator : prashans
Sample : BS
Misc : MS73404,V3C5124,5.0,,,,,1
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Sep 09 10:04:20 2014
Quant Method : C:\MSDCHEM\1\METHODS\M3C5053.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Tue Aug 26 17:19:34 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
 Data File : 4d51741.D
 Acq On : 8 Sep 2014 3:54 pm
 Operator : PayalR
 Sample : jB75421-4ms
 Misc : MS73127,V4D2303,5,,,,,1
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Sep 08 16:19:49 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M4D2264.M
 Quant Title : SW-846 Method 8260B/8260C
 QLast Update : Tue Aug 05 09:16:25 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Tert Butyl Alcohol-d9	7.003	65	97781	500.00	ug/L	0.00
4) pentafluorobenzene	9.583	168	209586	50.00	ug/L	0.00
51) 1,4-difluorobenzene	10.537	114	240744	50.00	ug/L	0.00
83) chlorobenzene-d5	13.914	117	213345	50.00	ug/L	0.00
98) 1,4-dichlorobenzene-d4	16.341	152	113692	50.00	ug/L	0.00
System Monitoring Compounds						
45) dibromofluoromethane (s)	9.567	113	89533	41.63	ug/L	0.00
Spiked Amount 50.000	Range 79 - 120		Recovery =	83.26%		
46) 1,2-dichloroethane-d4 (s)	10.018	65	88527	40.98	ug/L	0.00
Spiked Amount 50.000	Range 72 - 123		Recovery =	81.96%		
75) toluene-d8 (s)	12.299	98	296819	48.71	ug/L	0.00
Spiked Amount 50.000	Range 78 - 119		Recovery =	97.42%		
100) 4-bromofluorobenzene (s)	15.151	95	109512	44.95	ug/L	0.00
Spiked Amount 50.000	Range 74 - 119		Recovery =	89.90%		
Target Compounds						
2) 1,4-dioxane	11.282	88	37125	1417.58	ug/L	91
3) tertiary butyl alcohol	7.134	59	83447	310.23	ug/L	100
5) chlorodifluoromethane	3.344	51	56094	29.92	ug/L	97
6) dichlorodifluoromethane	3.328	85	77313	30.99	ug/L	99
7) chloromethane	3.648	50	88976	28.98	ug/L	98
8) vinyl chloride	3.910	62	82061	28.65	ug/L	99
10) bromomethane	4.571	94	68138	36.51	ug/L	99
11) chloroethane	4.770	64	41359	33.93	ug/L	98
12) trichlorofluoromethane	5.326	101	91217	37.06	ug/L	99
14) ethyl ether	5.787	74	44008	42.14	ug/L	99
16) 2-chloropropane	5.970	43	89134	29.39	ug/L	93
17) acrolein	6.007	56	223861	396.46	ug/L	100
18) 1,1-dichloroethene	6.233	96	56709	31.18	ug/L	90
19) acetone	6.269	43	35439	46.87	ug/L	99
20) allyl chloride	6.820	76	31553	32.51	ug/L	99
21) acetonitrile	6.725	40	78145	517.04	ug/L	95
22) iodomethane	6.500	142	138858	37.53	ug/L	99
23) iso-butyl alcohol	9.866	41	50364	502.40	ug/L	98
24) carbon disulfide	6.642	76	206978	28.73	ug/L	99
25) methylene chloride	7.014	84	87303	39.23	ug/L	96
26) 1-chloropropane	7.077	42	107065	32.21	ug/L	# 80
27) methyl acetate	6.825	74	19451	49.93	ug/L	97
28) methyl tert butyl ether	7.454	73	250901	43.82	ug/L	100
29) trans-1,2-dichloroethene	7.470	96	68887	34.85	ug/L	98
30) di-isopropyl ether	8.188	45	277296	43.24	ug/L	98
31) ethyl tert-butyl ether	8.713	59	276640	44.25	ug/L	97
32) 2-butanone	8.928	72	13828	46.47	ug/L	95
33) 1,1-dichloroethane	8.115	63	133634	36.72	ug/L	99
34) chloroprene	8.256	53	85042	35.35	ug/L	99
35) acrylonitrile	7.370	53	219693	226.92	ug/L	99
36) vinyl acetate	8.146	86	15362	47.20	ug/L	90
37) ethyl acetate	8.990	45	16220	46.78	ug/L	96

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
 Data File : 4d51741.D
 Acq On : 8 Sep 2014 3:54 pm
 Operator : PayalR
 Sample : jB75421-4ms
 Misc : MS73127,V4D2303,5,,,1
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Sep 08 16:19:49 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M4D2264.M
 Quant Title : SW-846 Method 8260B/8260C
 QLast Update : Tue Aug 05 09:16:25 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
38) 2,2-dichloropropane	8.964	77	88993	34.44	ug/L	99
39) cis-1,2-dichloroethene	8.943	96	86500	38.88	ug/L	95
40) propionitrile	8.990	54	184256	444.59	ug/L	98
41) methyl acrylate	9.059	55	99453	43.11	ug/L	99
42) bromochloromethane	9.274	128	50974	44.09	ug/L	91
43) tetrahydrofuran	9.336	42	35469	45.68	ug/L	99
44) chloroform	9.357	83	138915	38.65	ug/L	99
47) freon 113	6.243	151	46515	37.38	ug/L	92
48) methacrylonitrile	9.216	41	65627	44.37	ug/L	98
49) 1,1,1-trichloroethane	9.651	97	92203	34.78	ug/L	98
50) tert-amyl methyl ether	10.217	73	279425	47.22	ug/L	98
52) epichlorohydrin	11.848	57	53333	209.43	ug/L	97
53) n-butyl alcohol	10.673	56	210176	2617.64	ug/L	99
54) cyclohexane	9.751	84	79692	33.57	ug/L	97
56) carbon tetrachloride	9.877	117	82582	36.81	ug/L	98
57) 1,1-dichloropropene	9.850	75	86735	36.40	ug/L	98
58) hexane	7.895	57	75683	42.45	ug/L	99
59) benzene	10.118	78	287965	41.34	ug/L	99
60) ISO-OCTANE	10.212	57	226072	45.63	ug/L	96
61) heptane	10.401	57	46537	39.75	ug/L	98
62) isopropyl acetate	10.102	43	200054	50.05	ug/L	99
63) 1,2-dichloroethane	10.112	62	112326	47.30	ug/L	99
64) trichloroethene	10.894	95	73258	39.44	ug/L	97
66) 2-nitropropane	11.691	43	29833	46.99	ug/L	100
67) 2-chloroethyl vinyl ether	11.848	63	2127	1.41	ug/L	72
68) methyl methacrylate	11.213	41	88025	47.48	ug/L	98
69) 1,2-dichloropropane	11.156	63	86755	42.76	ug/L	97
70) methylcyclohexane	11.156	83	102651	40.13	ug/L	99
72) dibromomethane	11.303	93	67465	48.32	ug/L	95
73) bromodichloromethane	11.460	83	118908	45.44	ug/L	98
74) cis-1,3-dichloropropene	11.963	75	146025	45.23	ug/L	98
76) 4-methyl-2-pentanone	12.100	58	49144	47.19	ug/L	97
77) toluene	12.372	92	175737	42.26	ug/L	100
78) 3-methyl-1-butanol	12.115	70	77362	1083.71	ug/L	96
79) trans-1,3-dichloropropene	12.571	75	138528	44.45	ug/L	99
80) ethyl methacrylate	12.619	69	129082	45.33	ug/L	99
81) 1,1,2-trichloroethane	12.792	83	79893	43.75	ug/L	98
82) 2-hexanone	13.017	58	47379	46.08	ug/L	98
84) tetrachloroethene	13.007	166	79031	40.09	ug/L	100
85) 1,3-dichloropropane	12.991	76	141081	45.27	ug/L	99
86) butyl acetate	13.127	56	76392	50.66	ug/L	100
87) dibromochloromethane	13.258	129	113572	47.28	ug/L	99
88) 1,2-dibromoethane	13.421	107	102674	47.33	ug/L	98
90) chlorobenzene	13.945	112	224596	43.73	ug/L	97
91) 1,1,1,2-tetrachloroethane	14.013	131	89470	45.03	ug/L	99
92) ethylbenzene	14.029	91	354402	43.57	ug/L	100
93) m,p-xylene	14.150	106	269710	89.08	ug/L	98
94) o-xylene	14.590	106	138427	43.57	ug/L	99
95) styrene	14.595	104	242724	44.95	ug/L	98
97) bromoform	14.836	173	92388	46.04	ug/L	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
 Data File : 4d51741.D
 Acq On : 8 Sep 2014 3:54 pm
 Operator : PayalR
 Sample : jB75421-4ms
 Misc : MS73127,V4D2303,5,,,,,1
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Sep 08 16:19:49 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M4D2264.M
 Quant Title : SW-846 Method 8260B/8260C
 QLast Update : Tue Aug 05 09:16:25 2014
 Response via : Initial Calibration

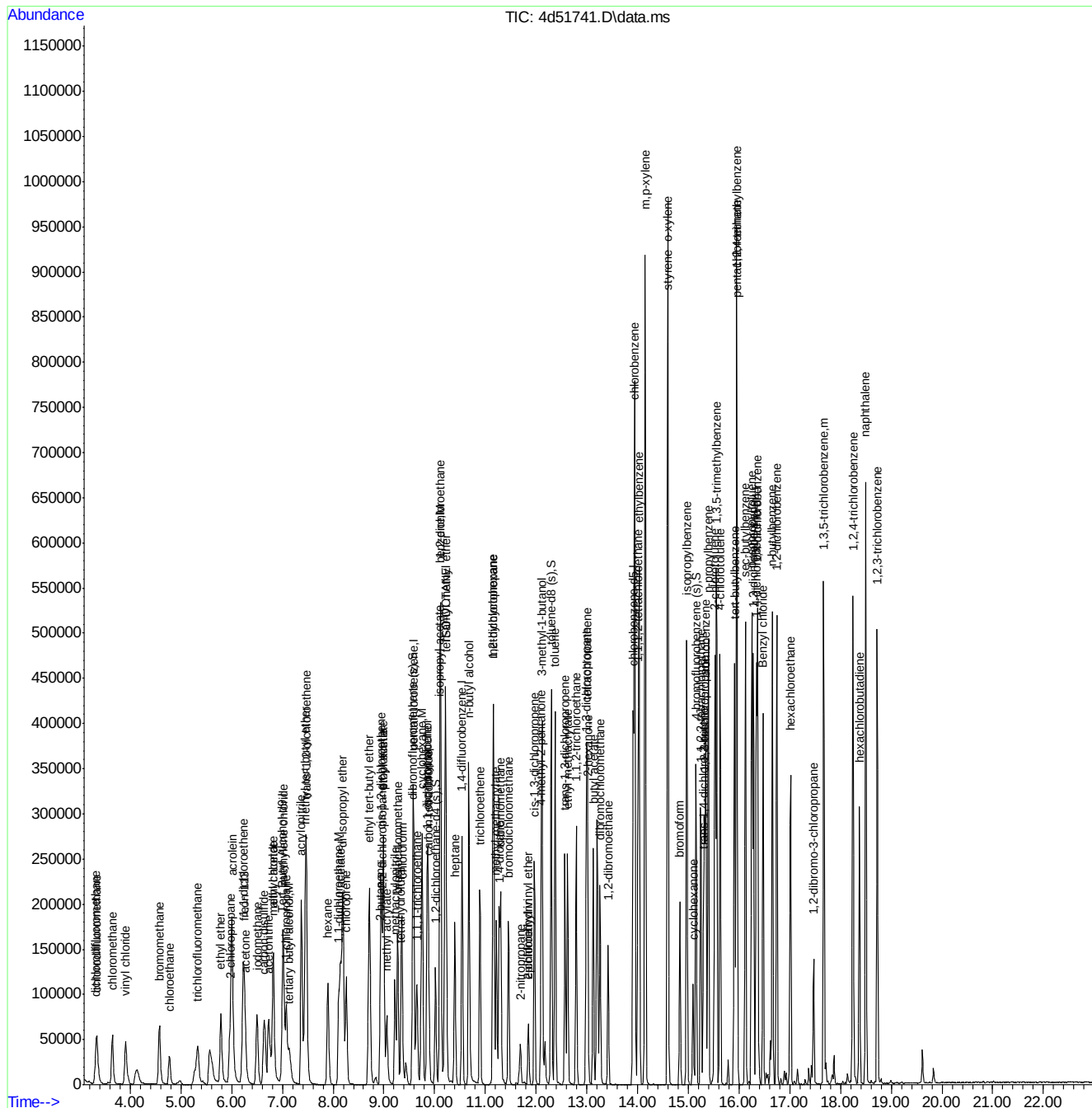
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
99) isopropylbenzene	14.967	105	326606	41.97	ug/L	98
101) bromobenzene	15.345	156	111142	44.81	ug/L	92
102) cyclohexanone	15.093	55	47273	207.35	ug/L	96
103) 1,1,2,2-tetrachloroethane	15.245	83	156991	42.19	ug/L	99
104) trans-1,4-dichloro-2-b...	15.298	53	31547	40.23	ug/L	98
105) 1,2,3-trichloropropane	15.319	110	35516	46.97	ug/L	99
106) n-propylbenzene	15.397	91	386642	41.41	ug/L	99
107) 2-chlorotoluene	15.523	126	90039	42.60	ug/L	97
108) 4-chlorotoluene	15.628	91	259534	41.46	ug/L	99
109) 1,3,5-trimethylbenzene	15.555	105	296752	44.58	ug/L	99
110) tert-butylbenzene	15.911	119	229827	40.36	ug/L	98
111) pentachloroethane	15.958	167	74247	47.09	ug/L	98
112) 1,2,4-trimethylbenzene	15.948	105	344378	50.85	ug/L	95
113) sec-butylbenzene	16.126	105	352371	40.08	ug/L	100
114) 1,3-dichlorobenzene	16.284	146	196778	43.75	ug/L	99
115) p-isopropyltoluene	16.252	119	294893	41.69	ug/L	99
116) 1,4-dichlorobenzene	16.362	146	201544	42.56	ug/L	98
117) 1,2-dichlorobenzene	16.745	146	204848	43.54	ug/L	98
118) n-butylbenzene	16.656	92	156410	40.67	ug/L	99
119) 1,2-dibromo-3-chloropr...	17.468	75	29050	45.26	ug/L	89
120) 1,3,5-trichlorobenzene	17.673	180	168418	44.62	ug/L	99
121) 1,2,4-trichlorobenzene	18.244	180	164650	46.43	ug/L	99
122) hexachlorobutadiene	18.375	225	67871	41.26	ug/L	98
123) naphthalene	18.496	128	479048	48.87	ug/L	99
124) 1,2,3-trichlorobenzene	18.722	180	161942	46.39	ug/L	99
125) hexachloroethane	17.012	119	84023	50.83	ug/L	82
126) Benzyl chloride	16.472	91	273990	52.98	ug/L	99

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 4d51741.D
Acq On : 8 Sep 2014 3:54 pm
Operator : PayalR
Sample : jb75421-4ms
Misc : MS73127,V4D2303,5,,,,,1
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Sep 08 16:19:49 2014
Quant Method : C:\MSDCHEM\1\METHODS\M4D2264.M
Quant Title : SW-846 Method 8260B/8260C
QLast Update : Tue Aug 05 09:16:25 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
 Data File : 4d51742.D
 Acq On : 8 Sep 2014 4:21 pm
 Operator : PayalR
 Sample : jB75421-4msd
 Misc : MS73127,V4D2303,5,,,,,1
 ALS Vial : 16 Sample Multiplier: 1

Quant Time: Sep 09 11:02:04 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M4D2264.M
 Quant Title : SW-846 Method 8260B/8260C
 QLast Update : Fri Aug 22 16:59:22 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Tert Butyl Alcohol-d9	7.003	65	98781	500.00	ug/L	0.00
4) pentafluorobenzene	9.583	168	210957	50.00	ug/L	0.00
51) 1,4-difluorobenzene	10.537	114	240344	50.00	ug/L	0.00
83) chlorobenzene-d5	13.909	117	213838	50.00	ug/L	0.00
98) 1,4-dichlorobenzene-d4	16.341	152	114537	50.00	ug/L	0.00
System Monitoring Compounds						
45) dibromofluoromethane (s)	9.567	113	90169	41.65	ug/L	0.00
Spiked Amount 50.000	Range 79 - 120		Recovery =	83.30%		
46) 1,2-dichloroethane-d4 (s)	10.013	65	89368	41.10	ug/L	0.00
Spiked Amount 50.000	Range 72 - 123		Recovery =	82.20%		
75) toluene-d8 (s)	12.294	98	299729	49.27	ug/L	0.00
Spiked Amount 50.000	Range 78 - 119		Recovery =	98.54%		
100) 4-bromofluorobenzene (s)	15.151	95	108063	44.03	ug/L	0.00
Spiked Amount 50.000	Range 74 - 119		Recovery =	88.06%		
Target Compounds						
2) 1,4-dioxane	11.282	88	35632	1346.80	ug/L	96
3) tertiary butyl alcohol	7.135	59	83201	306.18	ug/L	99
5) chlorodifluoromethane	3.339	51	54987	29.14	ug/L	98
6) dichlorodifluoromethane	3.323	85	75229	29.96	ug/L	100
7) chloromethane	3.643	50	89785	29.05	ug/L	99
8) vinyl chloride	3.905	62	80438	27.91	ug/L	99
10) bromomethane	4.571	94	68748	36.60	ug/L	98
11) chloroethane	4.770	64	40647	33.13	ug/L	98
12) trichlorofluoromethane	5.326	101	89341	36.06	ug/L	99
14) ethyl ether	5.782	74	44121	41.97	ug/L	99
16) 2-chloropropane	5.971	43	88739	29.07	ug/L	# 93
17) acrolein	6.002	56	224698	395.35	ug/L	100
18) 1,1-dichloroethene	6.222	96	56607	30.92	ug/L	94
19) acetone	6.269	43	35492	46.64	ug/L	97
20) allyl chloride	6.815	76	32055	32.82	ug/L	90
21) acetonitrile	6.726	40	94076	618.40	ug/L	96
22) iodomethane	6.495	142	141027	37.87	ug/L	100
23) iso-butyl alcohol	9.866	41	48696	482.60	ug/L	94
24) carbon disulfide	6.636	76	202656	27.95	ug/L	99
25) methylene chloride	7.014	84	88419	39.47	ug/L	95
26) 1-chloropropane	7.077	42	105654	31.58	ug/L	# 81
27) methyl acetate	6.820	74	19929	50.83	ug/L	94
28) methyl tert butyl ether	7.454	73	250472	43.46	ug/L	99
29) trans-1,2-dichloroethene	7.465	96	68597	34.48	ug/L	96
30) di-isopropyl ether	8.188	45	274745	42.56	ug/L	98
31) ethyl tert-butyl ether	8.713	59	276876	44.00	ug/L	99
32) 2-butanone	8.922	72	13779	46.01	ug/L	96
33) 1,1-dichloroethane	8.110	63	132774	36.25	ug/L	99
34) chloroprene	8.257	53	84073	34.72	ug/L	98
35) acrylonitrile	7.370	53	218070	223.78	ug/L	100
36) vinyl acetate	8.146	86	15638	47.73	ug/L	91
37) ethyl acetate	8.985	45	15968	45.76	ug/L	96

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
 Data File : 4d51742.D
 Acq On : 8 Sep 2014 4:21 pm
 Operator : PayalR
 Sample : jB75421-4msd
 Misc : MS73127,V4D2303,5,,,1
 ALS Vial : 16 Sample Multiplier: 1

Quant Time: Sep 09 11:02:04 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M4D2264.M
 Quant Title : SW-846 Method 8260B/8260C
 QLast Update : Fri Aug 22 16:59:22 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
38) 2,2-dichloropropane	8.964	77	88291	33.94	ug/L	98
39) cis-1,2-dichloroethene	8.943	96	86254	38.52	ug/L	95
40) propionitrile	8.991	54	187362	449.15	ug/L	99
41) methyl acrylate	9.059	55	101006	43.50	ug/L #	99
42) bromochloromethane	9.268	128	51384	44.15	ug/L	95
43) tetrahydrofuran	9.337	42	35218	45.06	ug/L	99
44) chloroform	9.352	83	138728	38.35	ug/L	100
47) freon 113	6.243	151	46208	36.89	ug/L	92
48) methacrylonitrile	9.216	41	65729	44.15	ug/L	99
49) 1,1,1-trichloroethane	9.646	97	92370	34.61	ug/L	98
50) tert-amyl methyl ether	10.217	73	278678	46.79	ug/L	98
52) epichlorohydrin	11.848	57	51864	204.00	ug/L	98
53) n-butyl alcohol	10.674	56	211509	2638.63	ug/L	99
54) cyclohexane	9.746	84	78647	33.18	ug/L	97
56) carbon tetrachloride	9.877	117	82145	36.68	ug/L	99
57) 1,1-dichloropropene	9.850	75	86460	36.34	ug/L	98
58) hexane	7.895	57	75320	42.32	ug/L	99
59) benzene	10.118	78	287842	41.39	ug/L	100
60) ISO-OCTANE	10.207	57	220743	44.62	ug/L	95
61) heptane	10.396	57	46035	39.38	ug/L	99
62) isopropyl acetate	10.102	43	198500	49.75	ug/L	98
63) 1,2-dichloroethane	10.113	62	111397	46.99	ug/L	99
64) trichloroethene	10.889	95	72825	39.28	ug/L	97
66) 2-nitropropane	11.691	43	30185	47.62	ug/L	99
67) 2-chloroethyl vinyl ether	11.843	63	2016	1.34	ug/L	66
68) methyl methacrylate	11.214	41	87727	47.39	ug/L	97
69) 1,2-dichloropropane	11.156	63	86800	42.85	ug/L	98
70) methylcyclohexane	11.156	83	101917	39.90	ug/L	98
72) dibromomethane	11.298	93	67041	48.10	ug/L	99
73) bromodichloromethane	11.455	83	117837	45.11	ug/L	98
74) cis-1,3-dichloropropene	11.963	75	145417	45.12	ug/L	98
76) 4-methyl-2-pentanone	12.100	58	48932	47.07	ug/L	95
77) toluene	12.372	92	175888	42.37	ug/L	100
78) 3-methyl-1-butanol	12.115	70	78552	1102.21	ug/L	95
79) trans-1,3-dichloropropene	12.566	75	140332	45.10	ug/L	99
80) ethyl methacrylate	12.619	69	128852	45.33	ug/L	98
81) 1,1,2-trichloroethane	12.792	83	80558	44.19	ug/L	96
82) 2-hexanone	13.017	58	46871	45.66	ug/L	98
84) tetrachloroethene	13.007	166	77668	39.31	ug/L	98
85) 1,3-dichloropropane	12.986	76	138846	44.45	ug/L	99
86) butyl acetate	13.127	56	75706	50.09	ug/L	98
87) dibromochloromethane	13.258	129	113791	47.27	ug/L	99
88) 1,2-dibromoethane	13.416	107	103251	47.49	ug/L	100
90) chlorobenzene	13.945	112	225832	43.87	ug/L	97
91) 1,1,1,2-tetrachloroethane	14.013	131	90068	45.22	ug/L	98
92) ethylbenzene	14.029	91	351170	43.07	ug/L	99
93) m,p-xylene	14.150	106	268552	88.49	ug/L	96
94) o-xylene	14.590	106	137754	43.26	ug/L	99
95) styrene	14.595	104	241255	44.57	ug/L	98
97) bromoform	14.831	173	92674	46.08	ug/L	100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
 Data File : 4d51742.D
 Acq On : 8 Sep 2014 4:21 pm
 Operator : PayalR
 Sample : jB75421-4msd
 Misc : MS73127,V4D2303,5,,,,,1
 ALS Vial : 16 Sample Multiplier: 1

Quant Time: Sep 09 11:02:04 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M4D2264.M
 Quant Title : SW-846 Method 8260B/8260C
 QLast Update : Fri Aug 22 16:59:22 2014
 Response via : Initial Calibration

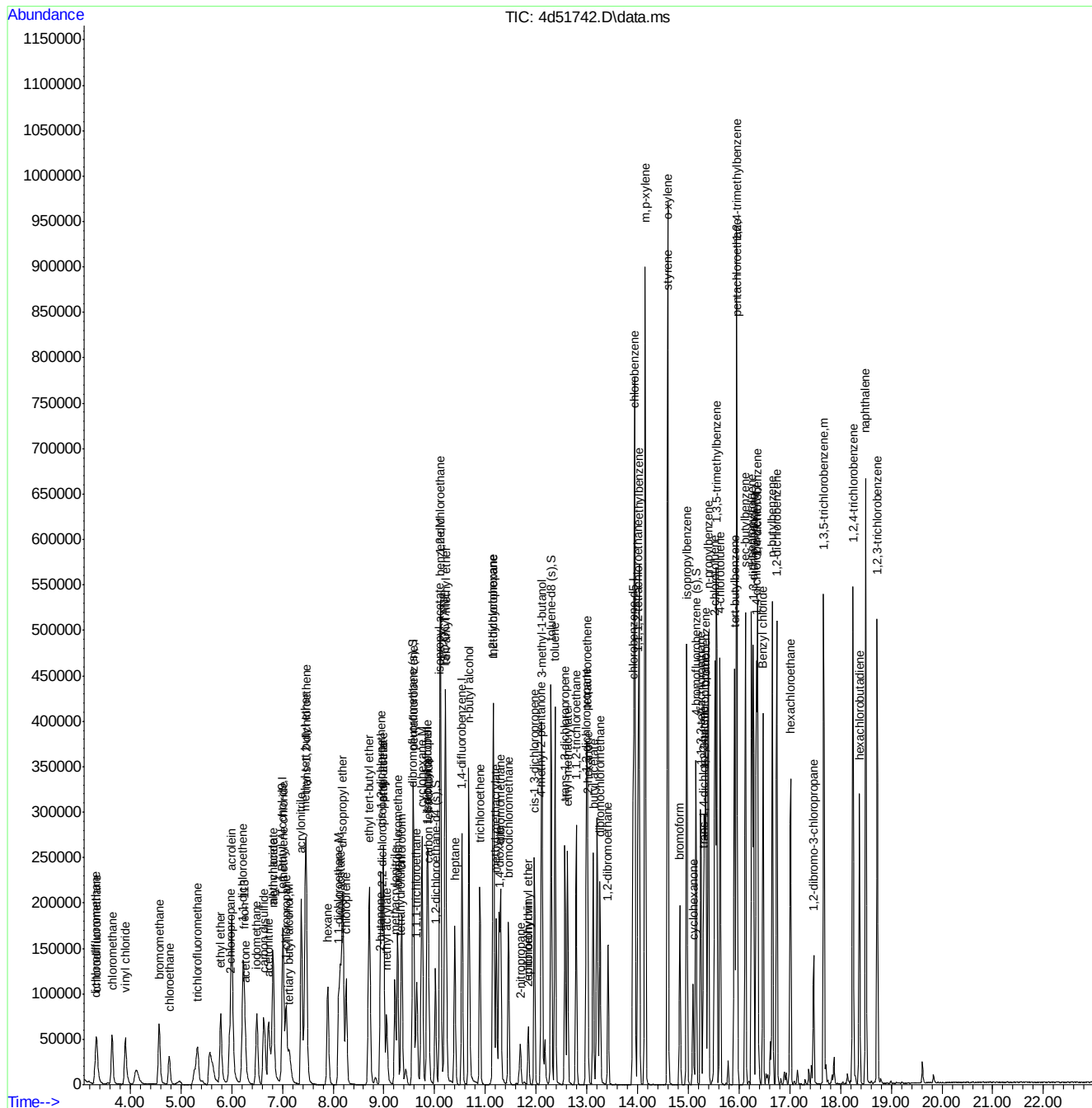
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
99)	isopropylbenzene	14.968	105	323411	41.25	ug/L	99
101)	bromobenzene	15.345	156	110713	44.30	ug/L	89
102)	cyclohexanone	15.093	55	46967	204.49	ug/L	97
103)	1,1,2,2-tetrachloroethane	15.246	83	156567	41.77	ug/L	99
104)	trans-1,4-dichloro-2-b...	15.298	53	30355	38.42	ug/L	88
105)	1,2,3-trichloropropane	15.319	110	36365	47.74	ug/L	94
106)	n-propylbenzene	15.392	91	384829	40.92	ug/L	100
107)	2-chlorotoluene	15.523	126	89158	41.88	ug/L	96
108)	4-chlorotoluene	15.623	91	253553	40.21	ug/L	100
109)	1,3,5-trimethylbenzene	15.555	105	290690	43.34	ug/L	98
110)	tert-butylbenzene	15.911	119	227046	39.58	ug/L	97
111)	pentachloroethane	15.959	167	74424	46.86	ug/L	98
112)	1,2,4-trimethylbenzene	15.948	105	342314	50.18	ug/L	95
113)	sec-butylbenzene	16.126	105	353816	39.95	ug/L	99
114)	1,3-dichlorobenzene	16.284	146	198329	43.77	ug/L	99
115)	p-isopropyltoluene	16.252	119	296758	41.65	ug/L	99
116)	1,4-dichlorobenzene	16.362	146	202233	42.39	ug/L	99
117)	1,2-dichlorobenzene	16.745	146	203917	43.02	ug/L	98
118)	n-butylbenzene	16.656	92	154909	39.98	ug/L	99
119)	1,2-dibromo-3-chloropr...	17.469	75	29236	45.21	ug/L	88
120)	1,3,5-trichlorobenzene	17.673	180	167151	43.95	ug/L	99
121)	1,2,4-trichlorobenzene	18.245	180	163204	45.68	ug/L	98
122)	hexachlorobutadiene	18.376	225	67810	40.92	ug/L	97
123)	naphthalene	18.496	128	482418	48.85	ug/L	100
124)	1,2,3-trichlorobenzene	18.722	180	160947	45.76	ug/L	99
125)	hexachloroethane	17.012	119	83242	49.98	ug/L	83
126)	Benzyl chloride	16.472	91	270324	51.88	ug/L	99

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 4d51742.D
Acq On : 8 Sep 2014 4:21 pm
Operator : PayalR
Sample : jb75421-4msd
Misc : MS73127,V4D2303,5,,,,,1
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Sep 09 11:02:04 2014
Quant Method : C:\MSDCHEM\1\METHODS\M4D2264.M
Quant Title : SW-846 Method 8260B/8260C
QLast Update : Fri Aug 22 16:59:22 2014
Response via : Initial Calibration



M4D2264.M Tue Sep 09 11:08:56 2014 RPT1

Page: 4

7.4.2



Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\
 Data File : 3C113341.D
 Acq On : 8 Sep 2014 6:27 pm
 Operator : prashans
 Sample : JB75844-2MS
 Misc : MS73404,V3C5123,5.3,,100,5,1
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Sep 09 09:53:37 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M3C5053.M
 Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
 QLast Update : Tue Aug 26 17:19:34 2014
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Tert Butyl Alcohol-d9	7.32	65	81099	500.00	ug/L	0.02
5) pentafluorobenzene	9.53	168	299666	50.00	ug/L	-0.01
54) 1,4-difluorobenzene	10.45	114	334360	50.00	ug/L	0.00
83) chlorobenzene-d5	13.58	117	304158	50.00	ug/L	0.00
99) 1,4-dichlorobenzene-d4	15.87	152	154841	50.00	ug/L	0.00

System Monitoring Compounds

45) dibromofluoromethane (s)	9.58	113	106486	48.33	ug/L	0.00
Spiked Amount	50.000	Range	59 - 130	Recovery	=	96.66%
46) 1,2-dichloroethane-d4 (s)	10.00	65	106493	47.09	ug/L	0.00
Spiked Amount	50.000	Range	65 - 123	Recovery	=	94.18%
75) toluene-d8 (s)	12.08	98	446397	54.87	ug/L	0.00
Spiked Amount	50.000	Range	80 - 124	Recovery	=	109.74%
101) 4-bromofluorobenzene (s)	14.72	95	160850	47.75	ug/L	0.00
Spiked Amount	50.000	Range	71 - 132	Recovery	=	95.50%

Target Compounds

						Qvalue
2) 1,4-dioxane	11.17	88	26914	1285.30	ug/L	# 87
3) tertiary butyl alcohol	7.44	59	58880	254.62	ug/L	90
6) chlorodifluoromethane	3.96	51	83830	30.57	ug/L	90
7) dichlorodifluoromethane	3.95	85	165101	50.42	ug/L	97
8) chloromethane	4.29	50	152557	41.45	ug/L	99
9) vinyl chloride	4.54	62	150004	43.65	ug/L	98
10) bromomethane	5.17	94	156964	70.46	ug/L	98
11) chloroethane	5.34	64	139040	76.01	ug/L	98
15) trichlorofluoromethane	5.80	101	217410	56.81	ug/L	96
16) ethyl ether	6.22	74	61187	45.26	ug/L	93
17) acrolein	6.46	56	135176	359.73	ug/L	99
18) 1,1-dichloroethene	6.63	61	160495	43.69	ug/L	95
19) acetone	6.69	58	14885	58.26	ug/L	88
20) allyl chloride	7.16	76	57337	44.16	ug/L	# 84
21) acetonitrile	7.11	40	74538	466.29	ug/L	97
22) iodomethane	6.91	142	186016	46.69	ug/L	98
23) iso-butyl alcohol	9.81	41	33912	496.23	ug/L	87
24) carbon disulfide	7.04	76	344191	40.60	ug/L	94
25) methylene chloride	7.35	84	118557	46.14	ug/L	98
26) methyl acetate	7.14	74	15032	50.11	ug/L	99
27) methyl tert butyl ether	7.68	73	324610	47.05	ug/L	96
28) trans-1,2-dichloroethene	7.72	61	158065	45.16	ug/L	97
29) di-isopropyl ether	8.27	45	379978	46.97	ug/L	97
30) ethyl tert-butyl ether	8.73	59	368966	47.02	ug/L	99
31) 2-butanone	8.98	72	15904	60.38	ug/L	75
32) 1,1-dichloroethane	8.28	63	199189	45.48	ug/L	99
33) chloroprene	8.39	53	160162	46.18	ug/L	96
34) acrylonitrile	7.66	53	157036	252.31	ug/L	98
35) vinyl acetate	8.27	86	19752	51.68	ug/L	90
36) ethyl acetate	9.00	45	12342	47.07	ug/L	# 1
37) 2,2-dichloropropane	9.02	77	186226	46.63	ug/L	98
38) cis-1,2-dichloroethene	9.01	61	192147	45.75	ug/L	96
39) propionitrile	9.07	54	125379	497.65	ug/L	99

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\
 Data File : 3C113341.D
 Acq On : 8 Sep 2014 6:27 pm
 Operator : prashans
 Sample : JB75844-2MS
 Misc : MS73404,V3C5123,5.3,,100,5,1
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Sep 09 09:53:37 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M3C5053.M
 Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
 QLast Update : Tue Aug 26 17:19:34 2014
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
40) Methyl Acrylate	9.08	85	13553	49.12	ug/L	91
41) bromochloromethane	9.33	128	56888	48.70	ug/L	98
42) tetrahydrofuran	9.37	72	12770	49.48	ug/L	93
43) chloroform	9.38	83	199609	47.01	ug/L	97
44) tert-Butyl Formate	9.41	59	76847	49.75	ug/L #	97
47) freon 113	6.60	151	83651	45.82	ug/L	98
48) methacrylonitrile	9.26	41	52549	48.97	ug/L	92
49) 1,1,1-trichloroethane	9.64	97	180136	46.22	ug/L	96
50) Cyclohexane	9.72	84	177057	41.42	ug/L	91
52) 2,2,4-trimethylpentane	10.08	57	285715	32.27	ug/L #	84
53) tert-amyl methyl ether	10.11	73	341891	47.15	ug/L	99
55) epichlorohydrin	11.70	57	58327	349.41	ug/L	99
56) n-butyl alcohol	10.57	56	138460	2444.13	ug/L	97
57) carbon tetrachloride	9.85	117	161195	48.63	ug/L	98
58) 1,1-dichloropropene	9.81	75	147684	45.30	ug/L	97
59) hexane	8.02	57	138755	44.71	ug/L	96
60) benzene	10.08	78	451312	46.11	ug/L	99
61) heptane	10.25	57	75986	40.02	ug/L	97
62) isopropyl acetate	9.99	87	21482	50.80	ug/L #	86
63) 1,2-dichloroethane	10.09	62	139274	52.62	ug/L	99
64) trichloroethene	10.79	95	116311	50.10	ug/L	97
67) 2-nitropropane	11.55	41	57265	94.51	ug/L	94
68) 2-chloroethyl vinyl ether	11.58	63	269230	285.99	ug/L	99
69) methyl methacrylate	11.06	100	25948	53.14	ug/L #	86
70) 1,2-dichloropropane	11.05	63	113017	50.22	ug/L	97
71) methylcyclohexane	11.01	83	233788	57.09	ug/L	98
72) dibromomethane	11.21	93	63904	55.27	ug/L	99
73) bromodichloromethane	11.34	83	159224	55.61	ug/L	96
74) cis-1,3-dichloropropene	11.80	75	187784	52.70	ug/L	90
76) 4-methyl-2-pentanone	11.89	58	39667	59.11	ug/L	96
77) toluene	12.16	91	507465	50.65	ug/L	100
78) 3-methyl-1-butanol	11.91	70	70614	1324.10	ug/L	87
79) trans-1,3-dichloropropene	12.35	75	173582	56.83	ug/L	86
80) ethyl methacrylate	12.34	69	157583	66.00	ug/L	96
81) 1,1,2-trichloroethane	12.56	97	92033	54.78	ug/L	97
82) 2-hexanone	12.73	58	46741	73.97	ug/L	87
84) tetrachloroethene	12.74	166	141837	45.47	ug/L	97
85) 1,3-dichloropropane	12.74	76	165915	47.97	ug/L	99
86) butyl acetate	12.80	56	71257	51.81	ug/L	100
87) dibromochloromethane	13.01	129	122419	50.28	ug/L	99
88) 1,2-dibromoethane	13.16	107	96532	50.14	ug/L	97
89) 3,3-Dimethyl-1-Butanol	12.90	57	107055	490.28	ug/L #	69
90) chlorobenzene	13.61	112	344677	47.31	ug/L	98
91) 1,1,1,2-tetrachloroethane	13.67	131	137792	51.88	ug/L	98
92) ethylbenzene	13.66	91	625388	49.38	ug/L	98
93) m,p-xylene	13.77	106	487755	102.18	ug/L	99
94) o-xylene	14.18	91	516706	50.97	ug/L	99
95) styrene	14.19	104	395149	53.14	ug/L	98
98) bromoform	14.45	173	88999	57.42	ug/L	98
100) isopropylbenzene	14.52	105	641068	48.30	ug/L	99

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\
 Data File : 3C113341.D
 Acq On : 8 Sep 2014 6:27 pm
 Operator : prashans
 Sample : JB75844-2MS
 Misc : MS73404,V3C5123,5.3,,100,5,1
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Sep 09 09:53:37 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M3C5053.M
 Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
 QLast Update : Tue Aug 26 17:19:34 2014
 Response via : Initial Calibration

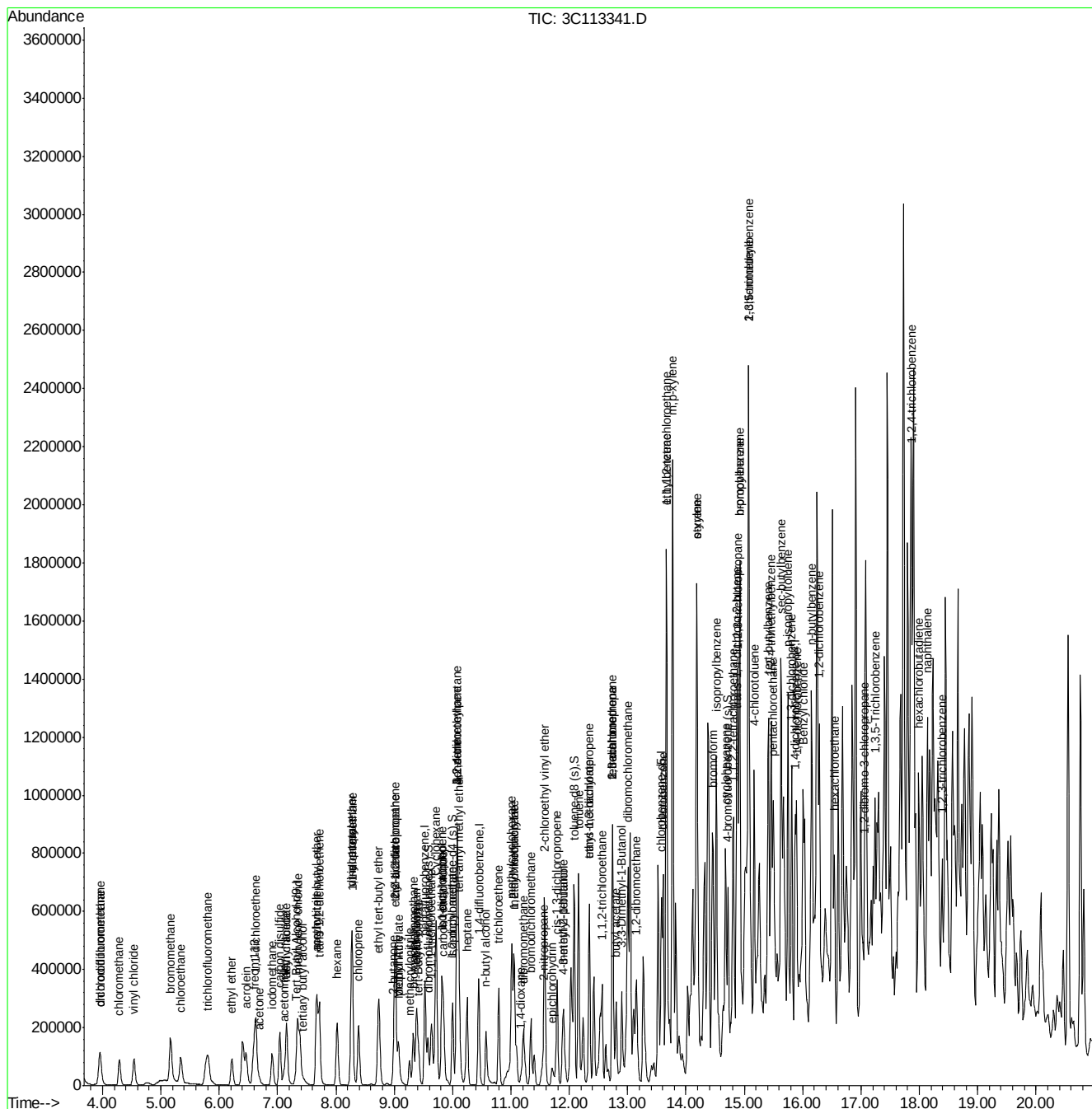
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
102) bromobenzene	14.91	156	163972	51.74	ug/L	97
104) cyclohexanone	14.68	55	308506	611.57	ug/L	96
105) 1,1,2,2-tetrachloroethane	14.82	83	154223	56.08	ug/L	96
106) trans-1,4-dichloro-2-buten	14.86	53	68733	100.66	ug/L #	77
107) 1,2,3-trichloropropane	14.89	110	54263	74.12	ug/L #	20
108) n-propylbenzene	14.92	91	758093	51.12	ug/L	99
110) 2-chlorotoluene	15.07	126	165102	52.61	ug/L	97
111) 4-chlorotoluene	15.17	126	156853	50.53	ug/L	97
112) 1,3,5-trimethylbenzene	15.07	105	552277	50.19	ug/L	99
113) tert-butylbenzene	15.42	119	481871	50.22	ug/L	96
114) pentachloroethane	15.50	167	106120	53.38	ug/L	96
115) 1,2,4-trimethylbenzene	15.46	105	544497	50.81	ug/L	99
116) sec-butylbenzene	15.63	105	719468	50.56	ug/L	99
117) 1,3-dichlorobenzene	15.81	146	318043	50.89	ug/L	96
118) p-isopropyltoluene	15.75	119	558957	46.79	ug/L	98
119) 1,4-dichlorobenzene	15.90	146	315427	50.10	ug/L	97
120) 1,2-dichlorobenzene	16.28	146	298056	51.04	ug/L	98
122) n-butylbenzene	16.16	92	297509	51.31	ug/L	97
124) 1,2-dibromo-3-chloropropan	17.05	157	29075	52.79	ug/L	93
125) 1,3,5-Trichlorobenzene	17.24	180	211984	41.80	ug/L	98
126) 1,2,4-trichlorobenzene	17.87	180	171978	43.45	ug/L	99
127) hexachlorobutadiene	17.98	225	66350	24.51	ug/L	99
128) naphthalene	18.14	128	419322	56.48	ug/L	98
129) 1,2,3-trichlorobenzene	18.39	180	147476	42.30	ug/L	99
130) hexachloroethane	16.55	119	73127	31.59	ug/L #	59
131) Benzyl chloride	16.01	91	370233	72.02	ug/L #	91

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

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\
Data File : 3C113341.D
Acq On : 8 Sep 2014 6:27 pm
Operator : prashans
Sample : JB75844-2MS
Misc : MS73404,V3C5123,5.3,,100,5,1
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Sep 09 09:53:37 2014
Quant Method : C:\MSDCHEM\1\METHODS\M3C5053.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Tue Aug 26 17:19:34 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\
 Data File : 3C113342.D
 Acq On : 8 Sep 2014 6:55 pm
 Operator : prashans
 Sample : JB75844-2MSD
 Misc : MS73404,V3C5123,5.3,,100,5,1
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Sep 09 09:59:33 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M3C5053.M
 Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
 QLast Update : Tue Aug 26 17:19:34 2014
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Tert Butyl Alcohol-d9	7.31	65	71634	500.00	ug/L	0.01
5) pentafluorobenzene	9.53	168	277507	50.00	ug/L	-0.01
54) 1,4-difluorobenzene	10.44	114	310053	50.00	ug/L	-0.01
83) chlorobenzene-d5	13.58	117	277921	50.00	ug/L	0.00
99) 1,4-dichlorobenzene-d4	15.87	152	140653	50.00	ug/L	0.00

System Monitoring Compounds

45) dibromofluoromethane (s)	9.58	113	96308	47.20	ug/L	0.00
Spiked Amount	50.000	Range	59 - 130	Recovery	=	94.40%
46) 1,2-dichloroethane-d4 (s)	10.00	65	96890	46.26	ug/L	0.00
Spiked Amount	50.000	Range	65 - 123	Recovery	=	92.52%
75) toluene-d8 (s)	12.08	98	403699	53.51	ug/L	0.00
Spiked Amount	50.000	Range	80 - 124	Recovery	=	107.02%
101) 4-bromofluorobenzene (s)	14.72	95	144044	47.07	ug/L	0.00
Spiked Amount	50.000	Range	71 - 132	Recovery	=	94.14%

Target Compounds

Qvalue

2) 1,4-dioxane	11.16	88	25971	1404.14	ug/L	#	83
3) tertiary butyl alcohol	7.43	59	59113	289.41	ug/L		89
6) chlorodifluoromethane	3.95	51	83348	32.82	ug/L		88
7) dichlorodifluoromethane	3.95	85	165365	54.54	ug/L		98
8) chloromethane	4.28	50	168406	49.40	ug/L		99
9) vinyl chloride	4.53	62	164005	51.53	ug/L		97
10) bromomethane	5.16	94	153590	74.45	ug/L		99
11) chloroethane	5.33	64	133330	78.71	ug/L		99
15) trichlorofluoromethane	5.80	101	217129	61.26	ug/L		99
16) ethyl ether	6.22	74	62919	50.26	ug/L		90
17) acrolein	6.46	56	133640	384.04	ug/L		99
18) 1,1-dichloroethene	6.62	61	158649	46.64	ug/L		96
19) acetone	6.68	58	13740m	58.08	ug/L		
20) allyl chloride	7.16	76	56257	46.79	ug/L	#	82
21) acetonitrile	7.11	40	73790	498.48	ug/L		96
22) iodomethane	6.91	142	187343	50.78	ug/L		99
23) iso-butyl alcohol	9.82	41	32884	519.61	ug/L		90
24) carbon disulfide	7.03	76	342560	43.64	ug/L		95
25) methylene chloride	7.34	84	119454	50.20	ug/L		98
26) methyl acetate	7.14	74	15127	54.45	ug/L		97
27) methyl tert butyl ether	7.68	73	320405	50.15	ug/L		95
28) trans-1,2-dichloroethene	7.72	61	153781	47.44	ug/L		97
29) di-isopropyl ether	8.27	45	375923	50.18	ug/L		97
30) ethyl tert-butyl ether	8.73	59	363138	49.97	ug/L		98
31) 2-butanone	8.98	72	14602	59.86	ug/L	#	85
32) 1,1-dichloroethane	8.28	63	199509	49.19	ug/L		99
33) chloroprene	8.39	53	159243	49.58	ug/L		96
34) acrylonitrile	7.66	53	155106	269.10	ug/L		98
35) vinyl acetate	8.27	86	18670	52.75	ug/L		79
36) ethyl acetate	9.00	45	12033	49.56	ug/L	#	1
37) 2,2-dichloropropane	9.01	77	184218	49.81	ug/L		98
38) cis-1,2-dichloroethene	9.01	61	192675	49.54	ug/L		97
39) propionitrile	9.07	54	125038	535.93	ug/L		89

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\
 Data File : 3C113342.D
 Acq On : 8 Sep 2014 6:55 pm
 Operator : prashans
 Sample : JB75844-2MSD
 Misc : MS73404,V3C5123,5.3,,100,5,1
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Sep 09 09:59:33 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M3C5053.M
 Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
 QLast Update : Tue Aug 26 17:19:34 2014
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
40) Methyl Acrylate	9.08	85	13297	52.00	ug/L	94
41) bromochloromethane	9.32	128	58104	53.72	ug/L	97
42) tetrahydrofuran	9.37	72	13045	54.59	ug/L	90
43) chloroform	9.38	83	198336	50.44	ug/L	97
44) tert-Butyl Formate	9.41	59	76942	53.79	ug/L #	96
47) freon 113	6.60	151	84593	50.03	ug/L	95
48) methacrylonitrile	9.26	41	51107	51.43	ug/L	99
49) 1,1,1-trichloroethane	9.64	97	179776	49.81	ug/L	99
50) Cyclohexane	9.72	84	177956	44.96	ug/L	91
52) 2,2,4-trimethylpentane	10.08	57	282800	34.49	ug/L #	86
53) tert-amyl methyl ether	10.11	73	337989	50.34	ug/L	98
55) epichlorohydrin	11.70	57	57027	368.40	ug/L	97
56) n-butyl alcohol	10.57	56	138763	2641.51	ug/L	94
57) carbon tetrachloride	9.84	117	159470	51.88	ug/L	100
58) 1,1-dichloropropene	9.81	75	148383	49.08	ug/L	99
59) hexane	8.02	57	138503	48.47	ug/L	98
60) benzene	10.08	78	449024	49.48	ug/L	98
61) heptane	10.25	57	73828	41.93	ug/L	93
62) isopropyl acetate	10.00	87	21918	55.90	ug/L #	90
63) 1,2-dichloroethane	10.09	62	139398	56.79	ug/L	99
64) trichloroethene	10.79	95	116380	54.06	ug/L	97
67) 2-nitropropane	11.56	41	55608	98.97	ug/L	99
68) 2-chloroethyl vinyl ether	11.58	63	267507	306.44	ug/L	98
69) methyl methacrylate	11.06	100	24923	55.05	ug/L #	81
70) 1,2-dichloropropane	11.05	63	113078	54.18	ug/L	94
71) methylcyclohexane	11.01	83	233275	61.43	ug/L	96
72) dibromomethane	11.21	93	63024	58.78	ug/L	96
73) bromodichloromethane	11.34	83	157484	59.31	ug/L	98
74) cis-1,3-dichloropropene	11.80	75	187030	56.61	ug/L	90
76) 4-methyl-2-pentanone	11.89	58	38731	62.23	ug/L	97
77) toluene	12.16	91	504433	54.29	ug/L	99
78) 3-methyl-1-butanol	11.91	70	70137	1418.26	ug/L	87
79) trans-1,3-dichloropropene	12.35	75	172405	60.87	ug/L	85
80) ethyl methacrylate	12.34	69	153649	69.40	ug/L	97
81) 1,1,2-trichloroethane	12.56	97	88146	56.58	ug/L	95
82) 2-hexanone	12.73	58	42888	73.19	ug/L	93
84) tetrachloroethene	12.74	166	141730	49.72	ug/L	96
85) 1,3-dichloropropane	12.74	76	163059	51.59	ug/L	99
86) butyl acetate	12.81	56	69582	55.37	ug/L	100
87) dibromochloromethane	13.01	129	124057	55.76	ug/L	97
88) 1,2-dibromoethane	13.16	107	96660	54.94	ug/L	96
89) 3,3-Dimethyl-1-Butanol	12.90	57	105015	526.34	ug/L #	68
90) chlorobenzene	13.61	112	338085	50.78	ug/L	97
91) 1,1,1,2-tetrachloroethane	13.67	131	135173	55.70	ug/L	98
92) ethylbenzene	13.66	91	620225	53.60	ug/L	99
93) m,p-xylene	13.77	106	482423	110.61	ug/L	99
94) o-xylene	14.18	91	507496	54.79	ug/L	100
95) styrene	14.19	104	389890	57.38	ug/L	99
98) bromoform	14.45	173	88993	62.83	ug/L	100
100) isopropylbenzene	14.52	105	637753	52.90	ug/L	99

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\
 Data File : 3C113342.D
 Acq On : 8 Sep 2014 6:55 pm
 Operator : prashans
 Sample : JB75844-2MSD
 Misc : MS73404,V3C5123,5.3,,100,5,1
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Sep 09 09:59:33 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M3C5053.M
 Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
 QLast Update : Tue Aug 26 17:19:34 2014
 Response via : Initial Calibration

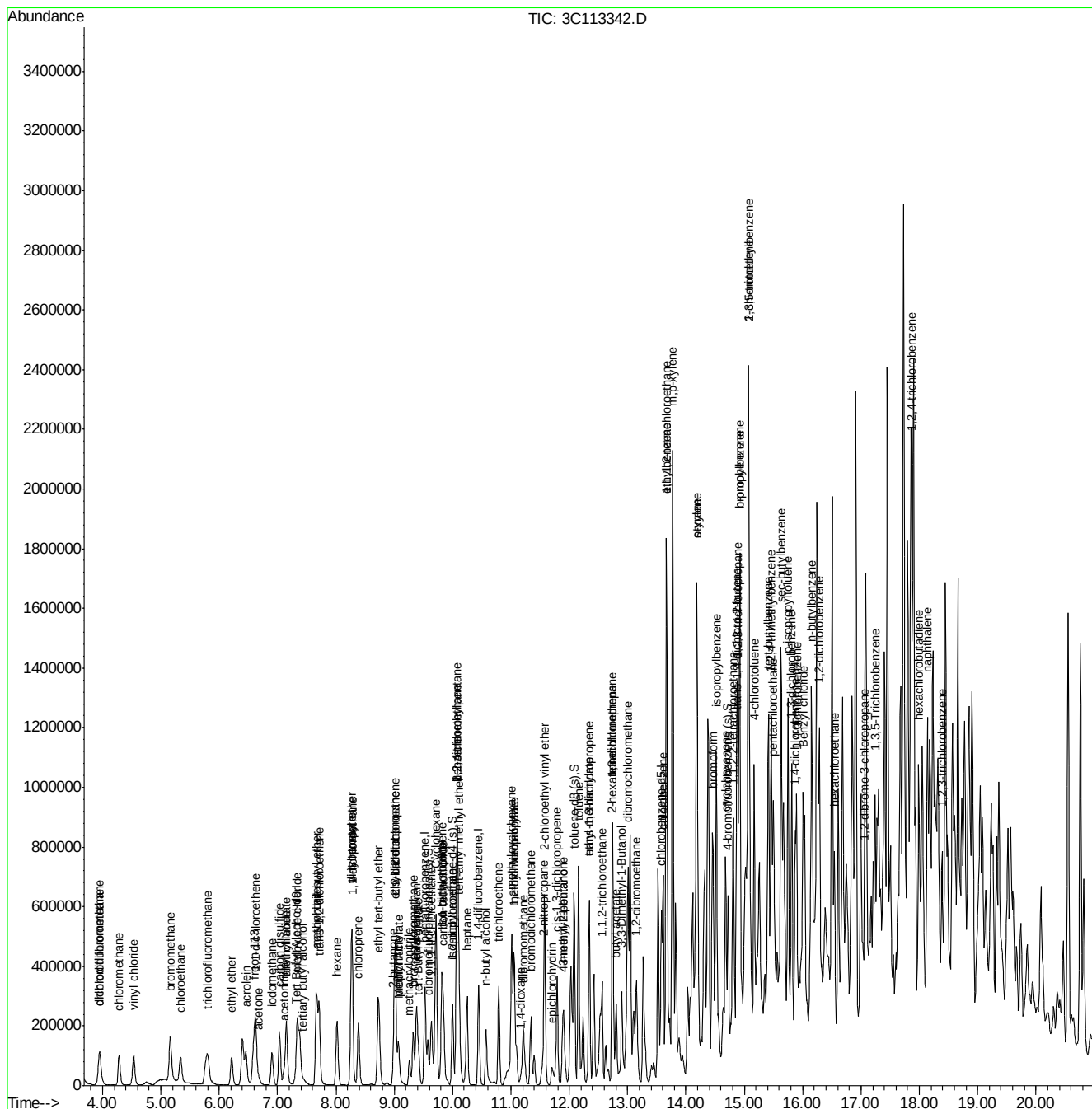
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
102) bromobenzene	14.91	156	161428	56.08	ug/L	100
104) cyclohexanone	14.68	55	289691	632.20	ug/L	95
105) 1,1,2,2-tetrachloroethane	14.82	83	153226	61.34	ug/L	98
106) trans-1,4-dichloro-2-buten	14.86	53	67063	108.12	ug/L #	75
107) 1,2,3-trichloropropane	14.89	110	44459	66.86	ug/L #	16
108) n-propylbenzene	14.92	91	743620	55.20	ug/L	100
110) 2-chlorotoluene	15.07	126	161710	56.73	ug/L	98
111) 4-chlorotoluene	15.17	126	154318	54.73	ug/L	99
112) 1,3,5-trimethylbenzene	15.07	105	547808	54.81	ug/L	99
113) tert-butylbenzene	15.42	119	480081	55.08	ug/L	99
114) pentachloroethane	15.50	167	105559	58.46	ug/L	96
115) 1,2,4-trimethylbenzene	15.46	105	532992	54.76	ug/L	99
116) sec-butylbenzene	15.63	105	719959	55.70	ug/L	98
117) 1,3-dichlorobenzene	15.81	146	313156	55.17	ug/L	97
118) p-isopropyltoluene	15.75	119	551292	50.80	ug/L	99
119) 1,4-dichlorobenzene	15.90	146	308353	53.92	ug/L	98
120) 1,2-dichlorobenzene	16.28	146	292132	55.07	ug/L	97
122) n-butylbenzene	16.16	92	294865	55.99	ug/L	98
124) 1,2-dibromo-3-chloropropan	17.05	157	29223	58.41	ug/L	97
125) 1,3,5-Trichlorobenzene	17.24	180	207532	45.05	ug/L	97
126) 1,2,4-trichlorobenzene	17.87	180	168588	46.89	ug/L	99
127) hexachlorobutadiene	17.98	225	66184	26.91	ug/L	100
128) naphthalene	18.14	128	405461	60.13	ug/L	98
129) 1,2,3-trichlorobenzene	18.39	180	145374	45.90	ug/L	98
130) hexachloroethane	16.55	119	72631	34.54	ug/L #	61
131) Benzyl chloride	16.01	91	363950	77.94	ug/L #	91

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

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\
Data File : 3C113342.D
Acq On : 8 Sep 2014 6:55 pm
Operator : prashans
Sample : JB75844-2MSD
Misc : MS73404,V3C5123,5.3,,100,5,1
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Sep 09 09:59:33 2014
Quant Method : C:\MSDCHEM\1\METHODS\M3C5053.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Tue Aug 26 17:19:34 2014
Response via : Initial Calibration



Manual Integration Approval Summary

Sample Number: JB75844-2MSD

Method: SW846 8260C

Lab FileID: 3C113342.D

Analyst approved: 09/09/14 10:02 Robert Szot

Injection Time: 09/08/14 18:55

Supervisor approved: 09/09/14 11:07 Jessica Reitan-Chu

Parameter	CAS	Sig#	R.T. (min.)	Reason
Acetone	67-64-1		6.68	Missed peak

7.4.4.1
7

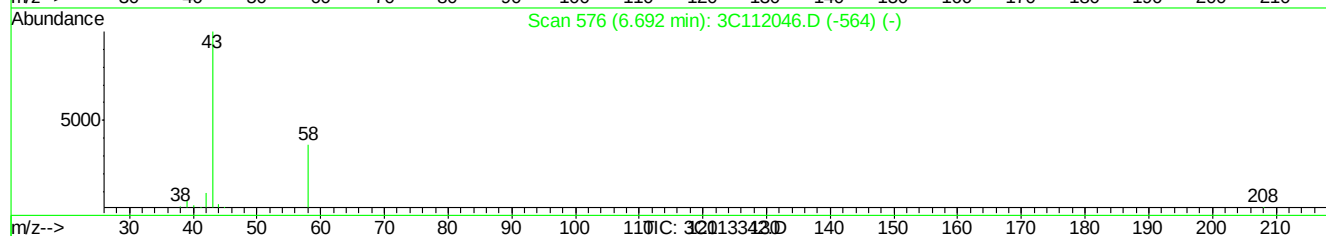
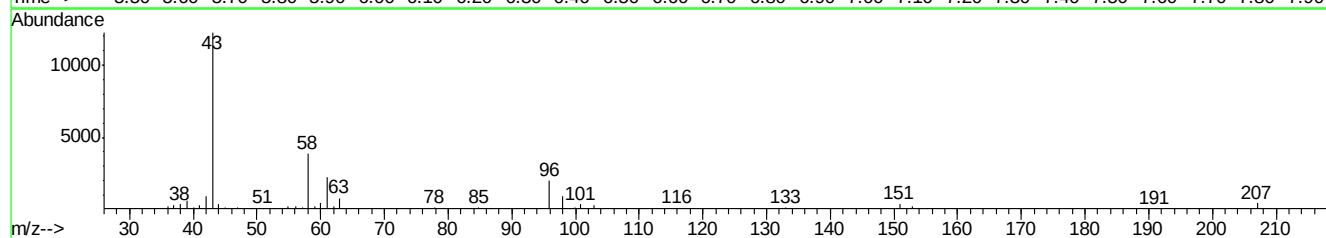
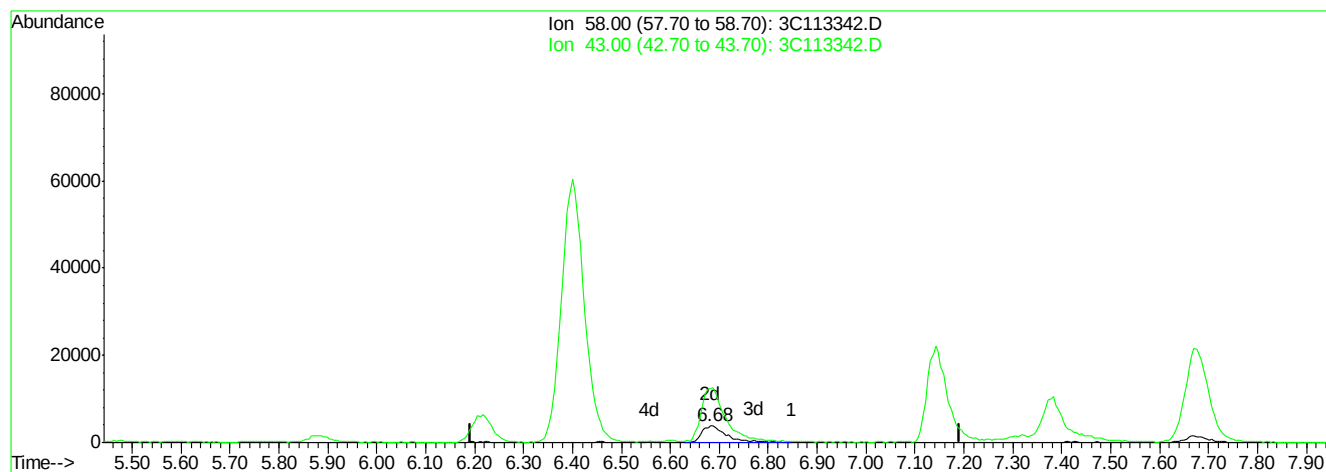
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\3C113342.D Vial: 13
Acq On : 8 Sep 2014 6:55 pm Operator: prashans
Sample : JB75844-2MSD Inst : MS3C
Misc : MS73404,V3C5123,5.3,,100,5,1 Multiplr: 1.00
MS Integration Params: RTEINT.P

Quant Time: Sep 09 09:54:16 2014

Results File: M3C5053.RES

Method : C:\MSDCHEM\1\METHODS\M3C5053.M (RTE Integrator)
Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
Last Update : Tue Aug 26 17:19:34 2014
Response via : Multiple Level Calibration



(19) acetone

6.68min 58.08ug/L m

response 13740

Ion	Exp%	Act%
58.00	100	100
43.00	282.60	317.34#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\
 Data File : 3C113348.D
 Acq On : 8 Sep 2014 9:42 pm
 Operator : prashans
 Sample : JB75788-8MS
 Misc : MS73402,V3C5124,5.0,,,,,1
 ALS Vial : 19 Sample Multiplier: 1

Quant Time: Sep 09 10:04:44 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M3C5053.M
 Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
 QLast Update : Tue Aug 26 17:19:34 2014
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Tert Butyl Alcohol-d9	7.30	65	81860	500.00	ug/L	0.00
5) pentafluorobenzene	9.53	168	305796	50.00	ug/L	0.00
54) 1,4-difluorobenzene	10.45	114	349196	50.00	ug/L	0.00
83) chlorobenzene-d5	13.58	117	314105	50.00	ug/L	0.00
99) 1,4-dichlorobenzene-d4	15.88	152	158366	50.00	ug/L	0.00

System Monitoring Compounds

45) dibromofluoromethane (s)	9.58	113	109269	48.60	ug/L	0.00
Spiked Amount	50.000	Range	59 - 130	Recovery	=	97.20%
46) 1,2-dichloroethane-d4 (s)	10.00	65	111814	48.45	ug/L	0.00
Spiked Amount	50.000	Range	65 - 123	Recovery	=	96.90%
75) toluene-d8 (s)	12.08	98	453170	53.33	ug/L	0.00
Spiked Amount	50.000	Range	80 - 124	Recovery	=	106.66%
101) 4-bromofluorobenzene (s)	14.72	95	167695	48.67	ug/L	0.00
Spiked Amount	50.000	Range	71 - 132	Recovery	=	97.34%

Target Compounds

						Qvalue
2) 1,4-dioxane	11.17	88	26560	1256.60	ug/L	# 98
3) tertiary butyl alcohol	7.41	59	58812	251.97	ug/L	64
6) chlorodifluoromethane	3.97	51	69527	24.84	ug/L	90
7) dichlorodifluoromethane	3.96	85	146276	43.78	ug/L	97
8) chloromethane	4.29	50	146036	38.88	ug/L	99
9) vinyl chloride	4.54	62	142707	40.69	ug/L	99
10) bromomethane	5.19	94	101356	44.59	ug/L	99
11) chloroethane	5.36	64	78299	41.94	ug/L	99
15) trichlorofluoromethane	5.82	101	177608	45.48	ug/L	99
16) ethyl ether	6.22	74	55385	40.15	ug/L	94
17) acrolein	6.46	56	118379	308.72	ug/L	100
18) 1,1-dichloroethene	6.64	61	139046	37.09	ug/L	98
19) acetone	6.68	58	8890	34.10	ug/L	85
20) allyl chloride	7.16	76	50916	38.43	ug/L	# 89
21) acetonitrile	7.11	40	65389	400.86	ug/L	93
22) iodomethane	6.91	142	167726	41.26	ug/L	99
23) iso-butyl alcohol	9.82	41	30920	443.38	ug/L	89
24) carbon disulfide	7.04	76	301594	34.87	ug/L	93
25) methylene chloride	7.35	84	105879	40.38	ug/L	99
26) methyl acetate	7.15	74	13459	43.97	ug/L	95
27) methyl tert butyl ether	7.68	73	302843	43.02	ug/L	98
28) trans-1,2-dichloroethene	7.72	61	135946	38.06	ug/L	96
29) di-isopropyl ether	8.27	45	340748	41.27	ug/L	96
30) ethyl tert-butyl ether	8.73	59	334655	41.79	ug/L	98
31) 2-butanone	8.99	72	11277	41.95	ug/L	86
32) 1,1-dichloroethane	8.28	63	178371	39.91	ug/L	98
33) chloroprene	8.39	53	140492	39.69	ug/L	97
34) acrylonitrile	7.66	53	141849	223.34	ug/L	98
35) vinyl acetate	8.27	86	16911	43.36	ug/L	88
36) ethyl acetate	9.00	45	12649	47.27	ug/L	54
37) 2,2-dichloropropane	9.02	77	157723	38.70	ug/L	97
38) cis-1,2-dichloroethene	9.01	61	170849	39.86	ug/L	98
39) propionitrile	9.07	54	116682	453.85	ug/L	80

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\
 Data File : 3C113348.D
 Acq On : 8 Sep 2014 9:42 pm
 Operator : prashans
 Sample : JB75788-8MS
 Misc : MS73402,V3C5124,5.0,,,,,1
 ALS Vial : 19 Sample Multiplier: 1

Quant Time: Sep 09 10:04:44 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M3C5053.M
 Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
 QLast Update : Tue Aug 26 17:19:34 2014
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
40) Methyl Acrylate	9.08	85	12113	43.10	ug/L	96
41) bromochloromethane	9.33	128	52167	43.77	ug/L	95
42) tetrahydrofuran	9.37	72	11701	44.43	ug/L	96
43) chloroform	9.38	83	178017	41.09	ug/L	98
44) tert-Butyl Formate	9.41	59	69228	43.92	ug/L #	97
47) freon 113	6.61	151	72558	38.94	ug/L	93
48) methacrylonitrile	9.26	41	47847	43.69	ug/L	96
49) 1,1,1-trichloroethane	9.64	97	160066	40.25	ug/L	99
50) Cyclohexane	9.72	84	152506	34.96	ug/L	92
52) 2,2,4-trimethylpentane	10.08	57	309226	34.22	ug/L	93
53) tert-amyl methyl ether	10.11	73	313226	42.33	ug/L	98
55) epichlorohydrin	11.70	57	41866	240.14	ug/L	97
56) n-butyl alcohol	10.57	56	141589	2393.18	ug/L	95
57) carbon tetrachloride	9.85	117	141558	40.89	ug/L	98
58) 1,1-dichloropropene	9.82	75	132661	38.96	ug/L	98
59) hexane	8.03	57	116113	34.93	ug/L	99
60) benzene	10.08	78	404505	39.57	ug/L	98
61) heptane	10.25	57	71362	35.99	ug/L	99
62) isopropyl acetate	10.00	87	20032	45.36	ug/L	94
63) 1,2-dichloroethane	10.09	62	128126	46.35	ug/L	98
64) trichloroethene	10.80	95	101989	42.06	ug/L	98
67) 2-nitropropane	11.56	41	36406	57.53	ug/L	98
68) 2-chloroethyl vinyl ether	11.58	63	233545	237.54	ug/L	98
69) methyl methacrylate	11.06	100	24010	47.09	ug/L #	64
70) 1,2-dichloropropane	11.05	63	102733	43.71	ug/L	97
71) methylcyclohexane	11.02	83	171320	40.06	ug/L	97
72) dibromomethane	11.22	93	58933	48.81	ug/L	96
73) bromodichloromethane	11.34	83	141552	47.34	ug/L	100
74) cis-1,3-dichloropropene	11.80	75	170618	45.85	ug/L	88
76) 4-methyl-2-pentanone	11.89	58	36291	51.78	ug/L	97
77) toluene	12.16	91	447725	42.79	ug/L	99
78) 3-methyl-1-butanol	11.91	70	56651	1017.15	ug/L	98
79) trans-1,3-dichloropropene	12.35	75	157779	49.46	ug/L	84
80) ethyl methacrylate	12.34	69	127257	51.03	ug/L	99
81) 1,1,2-trichloroethane	12.57	97	88525	50.45	ug/L	100
82) 2-hexanone	12.73	58	33674	51.03	ug/L	88
84) tetrachloroethene	12.74	166	129055	40.06	ug/L	98
85) 1,3-dichloropropane	12.74	76	153247	42.90	ug/L	100
86) butyl acetate	12.81	56	58581	41.24	ug/L	92
87) dibromochloromethane	13.01	129	111946	44.52	ug/L	98
88) 1,2-dibromoethane	13.16	107	87992	44.25	ug/L	98
89) 3,3-Dimethyl-1-Butanol	12.90	57	94906	420.88	ug/L	99
90) chlorobenzene	13.61	112	296513	39.41	ug/L	98
91) 1,1,1,2-tetrachloroethane	13.67	131	119841	43.70	ug/L	97
92) ethylbenzene	13.66	91	526563	40.26	ug/L	99
93) m,p-xylene	13.77	106	406693	82.50	ug/L	99
94) o-xylene	14.18	91	438495	41.89	ug/L	100
95) styrene	14.19	104	332337	43.28	ug/L	99
98) bromoform	14.45	173	80038	50.00	ug/L	97
100) isopropylbenzene	14.52	105	531103	39.13	ug/L	99

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\
 Data File : 3C113348.D
 Acq On : 8 Sep 2014 9:42 pm
 Operator : prashans
 Sample : JB75788-8MS
 Misc : MS73402,V3C5124,5.0,,,1
 ALS Vial : 19 Sample Multiplier: 1

Quant Time: Sep 09 10:04:44 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M3C5053.M
 Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
 QLast Update : Tue Aug 26 17:19:34 2014
 Response via : Initial Calibration

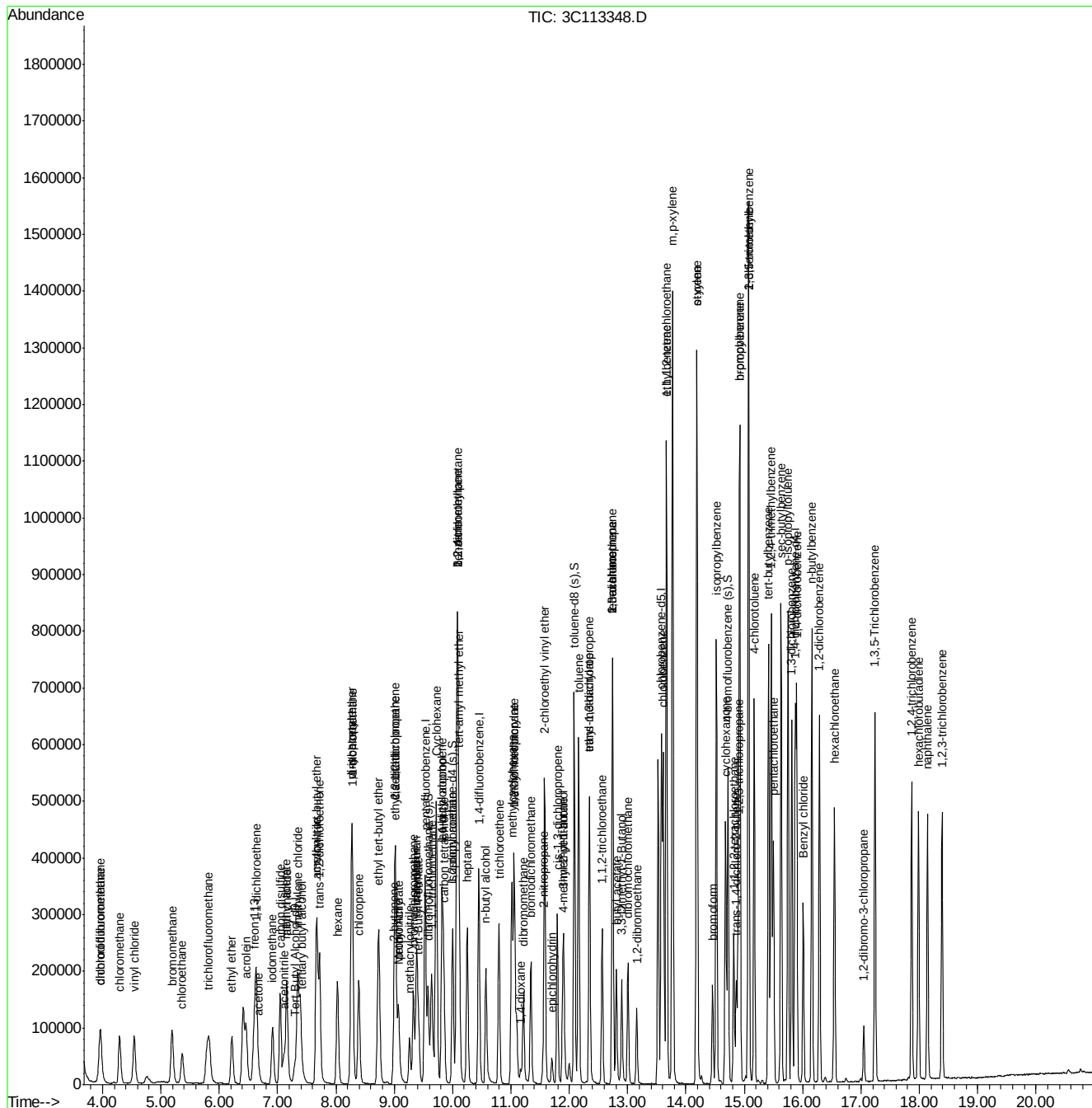
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
102) bromobenzene	14.91	156	139651	43.09	ug/L	98
104) cyclohexanone	14.68	55	193416	374.88	ug/L	94
105) 1,1,2,2-tetrachloroethane	14.82	83	129502	46.04	ug/L	98
106) trans-1,4-dichloro-2-buten	14.86	53	34794	49.82	ug/L	93
107) 1,2,3-trichloropropane	14.89	110	35755	47.75	ug/L	99
108) n-propylbenzene	14.92	91	599801	39.55	ug/L	98
110) 2-chlorotoluene	15.07	126	131044	40.83	ug/L	95
111) 4-chlorotoluene	15.17	126	128346	40.43	ug/L	95
112) 1,3,5-trimethylbenzene	15.07	105	454761	40.41	ug/L	98
113) tert-butylbenzene	15.42	119	385341	39.27	ug/L	97
114) pentachloroethane	15.50	167	85602	42.10	ug/L	97
115) 1,2,4-trimethylbenzene	15.46	105	440499	40.19	ug/L	98
116) sec-butylbenzene	15.63	105	586010	40.27	ug/L	99
117) 1,3-dichlorobenzene	15.82	146	256084	40.07	ug/L	98
118) p-isopropyltoluene	15.75	119	478245	39.14	ug/L	98
119) 1,4-dichlorobenzene	15.90	146	257744	40.03	ug/L	98
120) 1,2-dichlorobenzene	16.28	146	252702	42.31	ug/L	99
122) n-butylbenzene	16.16	92	238205	40.17	ug/L	96
124) 1,2-dibromo-3-chloropropan	17.05	157	25565	45.38	ug/L	92
125) 1,3,5-Trichlorobenzene	17.24	180	203696	39.27	ug/L	100
126) 1,2,4-trichlorobenzene	17.87	180	162569	40.16	ug/L	98
127) hexachlorobutadiene	17.98	225	101684	36.73	ug/L	100
128) naphthalene	18.14	128	348255	45.87	ug/L	99
129) 1,2,3-trichlorobenzene	18.39	180	150077	42.09	ug/L	99
130) hexachloroethane	16.55	119	96229	40.64	ug/L	99
131) Benzyl chloride	16.01	91	221578	42.14	ug/L	98

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

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\
Data File : 3C113348.D
Acq On : 8 Sep 2014 9:42 pm
Operator : prashans
Sample : JB75788-8MS
Misc : MS73402,V3C5124,5.0,,,,,1
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Sep 09 10:04:44 2014
Quant Method : C:\MSDCHEM\1\METHODS\M3C5053.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Tue Aug 26 17:19:34 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\
 Data File : 3C113349.D
 Acq On : 8 Sep 2014 10:09 pm
 Operator : prashans
 Sample : JB75788-8MSD
 Misc : MS73402,V3C5124,5.0,,,,,1
 ALS Vial : 20 Sample Multiplier: 1

Quant Time: Sep 09 10:05:11 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M3C5053.M
 Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
 QLast Update : Tue Aug 26 17:19:34 2014
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Tert Butyl Alcohol-d9	7.30	65	84712	500.00	ug/L	0.00
5) pentafluorobenzene	9.53	168	309364	50.00	ug/L	0.00
54) 1,4-difluorobenzene	10.45	114	355192	50.00	ug/L	0.00
83) chlorobenzene-d5	13.58	117	317062	50.00	ug/L	0.00
99) 1,4-dichlorobenzene-d4	15.87	152	158652	50.00	ug/L	0.00

System Monitoring Compounds

45) dibromofluoromethane (s)	9.58	113	113355	49.83	ug/L	0.00
Spiked Amount	50.000	Range	59 - 130	Recovery	=	99.66%
46) 1,2-dichloroethane-d4 (s)	10.00	65	115660	49.54	ug/L	0.00
Spiked Amount	50.000	Range	65 - 123	Recovery	=	99.08%
75) toluene-d8 (s)	12.08	98	459755	53.20	ug/L	0.00
Spiked Amount	50.000	Range	80 - 124	Recovery	=	106.40%
101) 4-bromofluorobenzene (s)	14.72	95	167179	48.44	ug/L	0.00
Spiked Amount	50.000	Range	71 - 132	Recovery	=	96.88%

Target Compounds

					Qvalue	
2) 1,4-dioxane	11.16	88	27116	1239.72	ug/L	# 96
3) tertiary butyl alcohol	7.41	59	59761	247.41	ug/L	62
6) chlorodifluoromethane	3.97	51	70240	24.81	ug/L	88
7) dichlorodifluoromethane	3.96	85	145240	42.97	ug/L	100
8) chloromethane	4.30	50	145592	38.31	ug/L	98
9) vinyl chloride	4.54	62	139950	39.45	ug/L	96
10) bromomethane	5.19	94	100771	43.82	ug/L	97
11) chloroethane	5.36	64	77976	41.29	ug/L	99
15) trichlorofluoromethane	5.82	101	179165	45.35	ug/L	99
16) ethyl ether	6.22	74	56731	40.65	ug/L	97
17) acrolein	6.46	56	120648	311.01	ug/L	99
18) 1,1-dichloroethene	6.64	61	141296	37.26	ug/L	94
19) acetone	6.69	58	9794	37.13	ug/L	# 81
20) allyl chloride	7.16	76	49738	37.11	ug/L	79
21) acetonitrile	7.11	40	65948	399.62	ug/L	96
22) iodomethane	6.92	142	166102	40.39	ug/L	99
23) iso-butyl alcohol	9.81	41	31700	449.32	ug/L	93
24) carbon disulfide	7.04	76	302848	34.61	ug/L	96
25) methylene chloride	7.35	84	105974	39.95	ug/L	98
26) methyl acetate	7.15	74	13820	44.62	ug/L	93
27) methyl tert butyl ether	7.68	73	310536	43.60	ug/L	96
28) trans-1,2-dichloroethene	7.72	61	139528	38.61	ug/L	98
29) di-isopropyl ether	8.27	45	342513	41.01	ug/L	96
30) ethyl tert-butyl ether	8.73	59	336509	41.54	ug/L	99
31) 2-butanone	8.98	72	11774	43.30	ug/L	89
32) 1,1-dichloroethane	8.28	63	179056	39.60	ug/L	99
33) chloroprene	8.39	53	142918	39.91	ug/L	96
34) acrylonitrile	7.67	53	145761	226.85	ug/L	99
35) vinyl acetate	8.27	86	16872	42.76	ug/L	72
36) ethyl acetate	9.00	45	12126	44.80	ug/L	# 31
37) 2,2-dichloropropane	9.03	77	155926	37.82	ug/L	99
38) cis-1,2-dichloroethene	9.01	61	171725	39.60	ug/L	98
39) propionitrile	9.07	54	120554	463.50	ug/L	92

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\
 Data File : 3C113349.D
 Acq On : 8 Sep 2014 10:09 pm
 Operator : prashans
 Sample : JB75788-8MSD
 Misc : MS73402,V3C5124,5.0,,,,,1
 ALS Vial : 20 Sample Multiplier: 1

Quant Time: Sep 09 10:05:11 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M3C5053.M
 Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
 QLast Update : Tue Aug 26 17:19:34 2014
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
40) Methyl Acrylate	9.08	85	11744	41.34	ug/L	90
41) bromochloromethane	9.33	128	52598	43.62	ug/L	98
42) tetrahydrofuran	9.37	72	12407	46.57	ug/L	95
43) chloroform	9.38	83	180053	41.08	ug/L	98
44) tert-Butyl Formate	9.41	59	69728	43.73	ug/L #	96
47) freon 113	6.61	151	72991	38.72	ug/L	97
48) methacrylonitrile	9.26	41	48062	43.38	ug/L	98
49) 1,1,1-trichloroethane	9.64	97	159785	39.72	ug/L	97
50) Cyclohexane	9.72	84	154923	35.11	ug/L	93
52) 2,2,4-trimethylpentane	10.08	57	314824	34.44	ug/L	94
53) tert-amyl methyl ether	10.11	73	317211	42.38	ug/L	97
55) epichlorohydrin	11.70	57	42886	241.84	ug/L	94
56) n-butyl alcohol	10.57	56	148061	2460.32	ug/L	97
57) carbon tetrachloride	9.85	117	141306	40.13	ug/L	98
58) 1,1-dichloropropene	9.82	75	132550	38.27	ug/L	100
59) hexane	8.03	57	117535	34.74	ug/L	99
60) benzene	10.08	78	406610	39.11	ug/L	99
61) heptane	10.25	57	70261	34.84	ug/L	99
62) isopropyl acetate	10.00	87	20879	46.48	ug/L	98
63) 1,2-dichloroethane	10.09	62	130160	46.29	ug/L	97
64) trichloroethene	10.79	95	103429	41.93	ug/L	97
67) 2-nitropropane	11.55	41	36598	56.86	ug/L	97
68) 2-chloroethyl vinyl ether	11.58	63	237015	237.00	ug/L	98
69) methyl methacrylate	11.06	100	23643	45.58	ug/L #	77
70) 1,2-dichloropropane	11.05	63	105754	44.23	ug/L	97
71) methylcyclohexane	11.02	83	170887	39.28	ug/L	95
72) dibromomethane	11.22	93	58755	47.84	ug/L	93
73) bromodichloromethane	11.34	83	142691	46.91	ug/L	99
74) cis-1,3-dichloropropene	11.80	75	171776	45.38	ug/L	89
76) 4-methyl-2-pentanone	11.89	58	37239	52.23	ug/L	96
77) toluene	12.16	91	453496	42.61	ug/L	98
78) 3-methyl-1-butanol	11.91	70	58156	1026.54	ug/L	97
79) trans-1,3-dichloropropene	12.35	75	159858	49.27	ug/L	86
80) ethyl methacrylate	12.34	69	126288	49.79	ug/L	97
81) 1,1,2-trichloroethane	12.57	97	89060	49.90	ug/L	99
82) 2-hexanone	12.73	58	33441	49.82	ug/L	96
84) tetrachloroethene	12.74	166	131958	40.58	ug/L	97
85) 1,3-dichloropropane	12.74	76	154147	42.75	ug/L	100
86) butyl acetate	12.81	56	59742	41.67	ug/L	88
87) dibromochloromethane	13.01	129	113669	44.78	ug/L	98
88) 1,2-dibromoethane	13.16	107	90931	45.31	ug/L	95
89) 3,3-Dimethyl-1-Butanol	12.90	57	97661	429.06	ug/L	99
90) chlorobenzene	13.61	112	300579	39.58	ug/L	96
91) 1,1,1,2-tetrachloroethane	13.67	131	121944	44.05	ug/L	99
92) ethylbenzene	13.66	91	533365	40.40	ug/L	100
93) m,p-xylene	13.77	106	409231	82.24	ug/L	99
94) o-xylene	14.18	91	441121	41.74	ug/L	99
95) styrene	14.19	104	337155	43.50	ug/L	100
98) bromoform	14.45	173	79685	49.31	ug/L	98
100) isopropylbenzene	14.52	105	534172	39.28	ug/L	99

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\
 Data File : 3C113349.D
 Acq On : 8 Sep 2014 10:09 pm
 Operator : prashans
 Sample : JB75788-8MSD
 Misc : MS73402,V3C5124,5.0,,,1
 ALS Vial : 20 Sample Multiplier: 1

Quant Time: Sep 09 10:05:11 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M3C5053.M
 Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
 QLast Update : Tue Aug 26 17:19:34 2014
 Response via : Initial Calibration

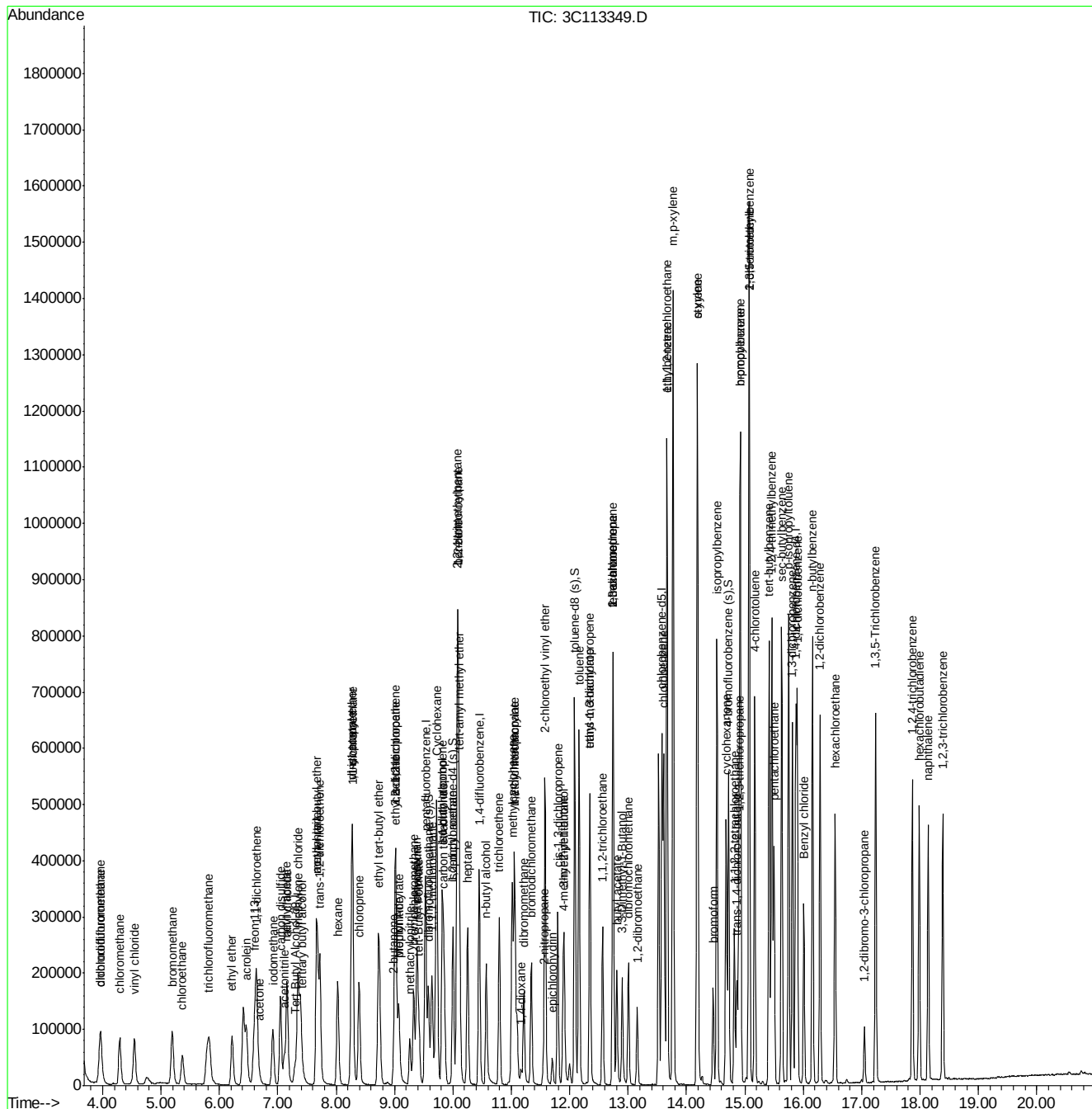
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
102) bromobenzene	14.91	156	140768	43.35	ug/L	99
104) cyclohexanone	14.68	55	197337	381.79	ug/L	94
105) 1,1,2,2-tetrachloroethane	14.82	83	131182	46.55	ug/L	98
106) trans-1,4-dichloro-2-buten	14.86	53	35854	51.25	ug/L	91
107) 1,2,3-trichloropropane	14.89	110	36028	48.03	ug/L	98
108) n-propylbenzene	14.92	91	602750	39.67	ug/L	99
110) 2-chlorotoluene	15.07	126	132239	41.13	ug/L	95
111) 4-chlorotoluene	15.17	126	129557	40.74	ug/L	95
112) 1,3,5-trimethylbenzene	15.07	105	454432	40.31	ug/L	98
113) tert-butylbenzene	15.42	119	386669	39.33	ug/L	93
114) pentachloroethane	15.50	167	82674	40.59	ug/L	97
115) 1,2,4-trimethylbenzene	15.46	105	441032	40.17	ug/L	99
116) sec-butylbenzene	15.63	105	582848	39.98	ug/L	99
117) 1,3-dichlorobenzene	15.82	146	259538	40.53	ug/L	99
118) p-isopropyltoluene	15.75	119	481940	39.37	ug/L	98
119) 1,4-dichlorobenzene	15.90	146	258407	40.06	ug/L	99
120) 1,2-dichlorobenzene	16.29	146	252645	42.22	ug/L	97
122) n-butylbenzene	16.16	92	239245	40.27	ug/L	99
124) 1,2-dibromo-3-chloropropan	17.05	157	26081	46.21	ug/L	92
125) 1,3,5-Trichlorobenzene	17.24	180	202663	39.00	ug/L	100
126) 1,2,4-trichlorobenzene	17.87	180	161764	39.89	ug/L	97
127) hexachlorobutadiene	17.98	225	102171	36.83	ug/L	99
128) naphthalene	18.14	128	347368	45.67	ug/L	99
129) 1,2,3-trichlorobenzene	18.39	180	149653	41.89	ug/L	99
130) hexachloroethane	16.55	119	94955	40.03	ug/L	99
131) Benzyl chloride	16.01	91	220891	41.94	ug/L	99

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

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\
Data File : 3C113349.D
Acq On : 8 Sep 2014 10:09 pm
Operator : prashans
Sample : JB75788-8MSD
Misc : MS73402,V3C5124,5.0,,,,,1
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Sep 09 10:05:11 2014
Quant Method : C:\MSDCHEM\1\METHODS\M3C5053.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Tue Aug 26 17:19:34 2014
Response via : Initial Calibration



M3C5053.M Tue Sep 09 10:05:15 2014 MS3C

Page: 4

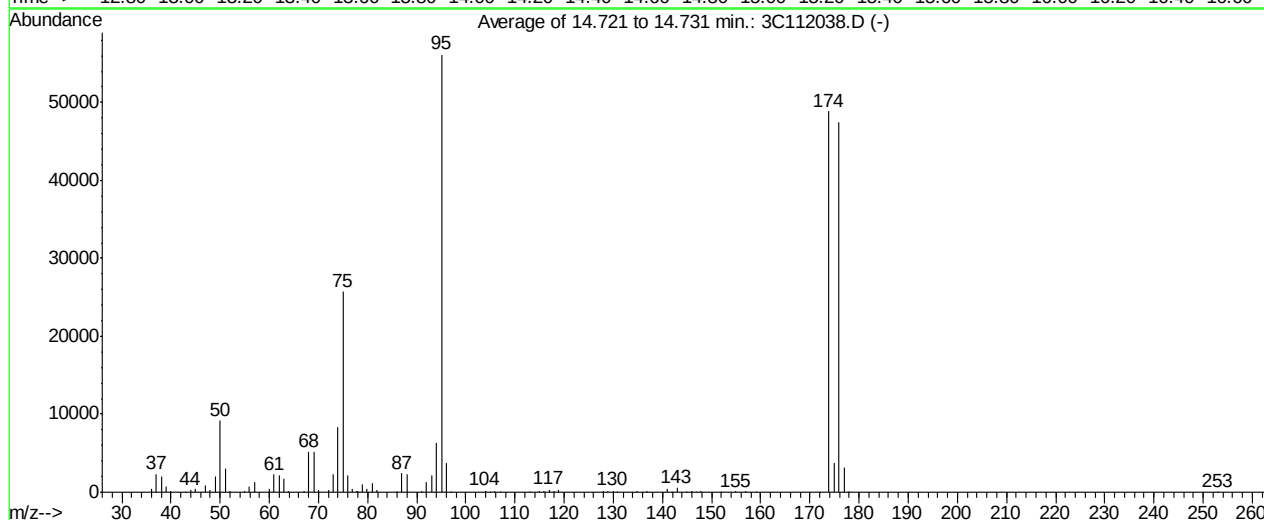
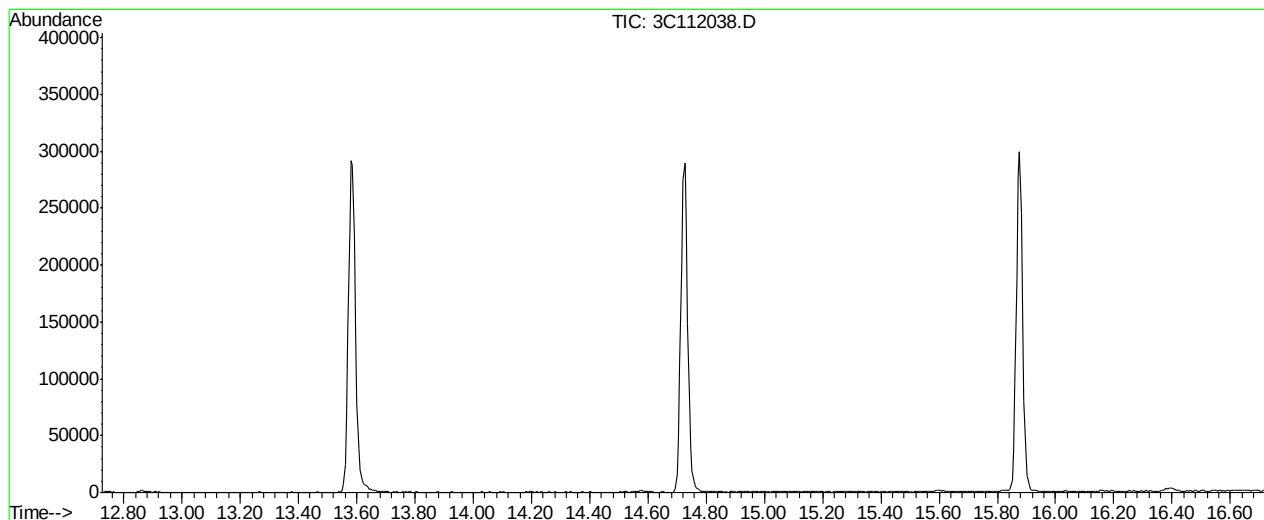
7.4.6

SW-846 Method 8260

Data File : C:\MSDCHEM\1\DATA\3C112038.D
Acq On : 28 Jul 2014 11:25 am
Sample : BFB
Misc : MS70923,V3C5053,5.0,,,1
MS Integration Params: RTEINT.P

Vial: 1
Operator: prashans
Inst : MS3C
Multiplr: 1.00

Method : C:\MSDCHEM\1\METHODS\M3C5053.M (RTE Integrator)
Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um



AutoFind: Scans 2111, 2112, 2113; Background Corrected with Scan 2102

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	16.3	9143	PASS
75	95	30	60	45.7	25688	PASS
95	95	100	100	100.0	56154	PASS
96	95	5	9	6.7	3758	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	87.0	48869	PASS
175	174	5	9	7.6	3694	PASS
176	174	95	101	97.2	47488	PASS
177	176	5	9	6.7	3169	PASS

Average of 14.721 to 14.731 min.: 3C112038.D

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.00	488	50.00	9143	66.95	164	78.05	106
37.00	2354	51.00	3001	68.00	5167	78.90	1070
38.00	2080	52.00	142	69.00	5205	79.90	385
39.00	785	54.95	155	70.00	360	80.90	1181
39.95	78	55.95	688	72.00	286	81.85	282
42.95	53	57.00	1341	73.00	2262	85.70	40
43.95	266	59.95	447	74.00	8325	86.00	41
45.00	401	61.00	2278	75.00	25688	86.95	2394
47.00	844	62.00	2193	76.00	2122	87.95	2327
47.95	300	63.00	1704	76.95	383	90.95	167
49.00	2026	63.95	176	77.85	132	91.95	1310

Average of 14.721 to 14.731 min.: 3C112038.D

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
93.00	2107	115.90	174	141.90	51	173.90	48869
94.00	6351	116.90	291	142.90	528	174.95	3694
95.00	56154	117.85	174	144.80	25	175.90	47488
96.00	3758	118.90	241	145.90	80	176.90	3169
97.00	43	127.85	182	146.80	33	177.75	68
103.90	216	128.90	104	147.90	111	178.00	40
105.00	32	129.90	198	151.80	26	253.00	57
105.90	204	130.75	56	154.90	136		
107.00	25	134.85	118	156.95	97		
112.90	27	136.90	91	158.95	61		
114.95	80	140.85	494	171.90	31		

SW-846 Method 8260

Data File : C:\MSDCHEM\1\DATA\3C113330.D

Acq On : 8 Sep 2014 12:53 pm

Sample : BFB

Misc : MS73315,V3C5123,5.0,,,1

MS Integration Params: RTEINT.P

Vial: 1

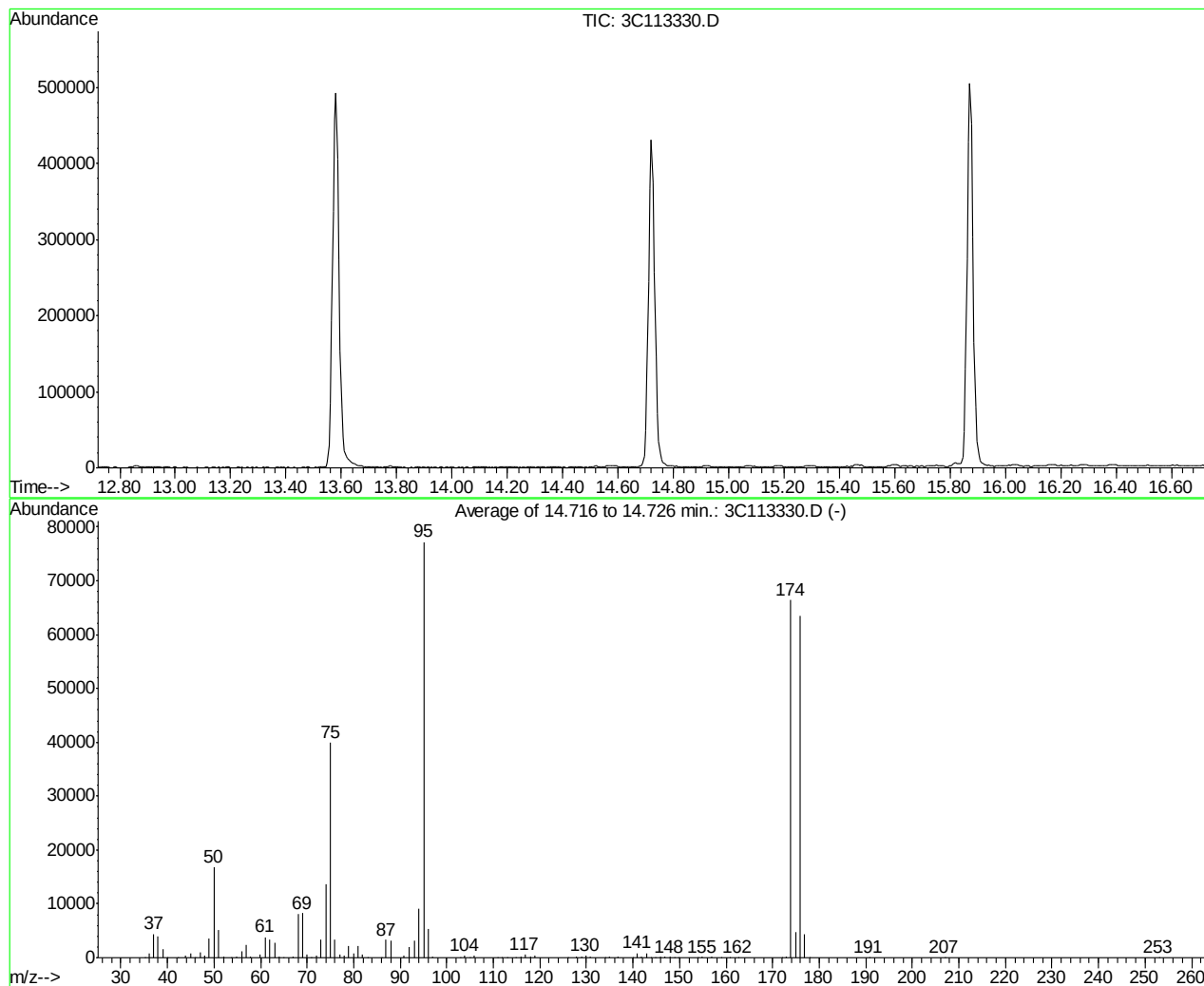
Operator: prashans

Inst : MS3C

Multiplr: 1.00

Method : C:\MSDCHEM\1\METHODS\M3C5053.M (RTE Integrator)

Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um



AutoFind: Scans 2110, 2111, 2112; Background Corrected with Scan 2101

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	21.7	16737	PASS
75	95	30	60	51.6	39866	PASS
95	95	100	100	100.0	77213	PASS
96	95	5	9	7.0	5411	PASS
173	174	0.00	2	0.2	108	PASS
174	95	50	120	86.0	66397	PASS
175	174	5	9	7.2	4760	PASS
176	174	95	101	95.5	63408	PASS
177	176	5	9	6.9	4397	PASS

3C113330.D M3C5053.M Tue Sep 09 09:44:23 2014 MS3C

Average of 14.716 to 14.726 min.: 3C113330.D

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
35.10	25	47.95	430	61.00	3790	72.95	3339
36.00	754	49.00	3518	62.00	3452	74.00	13616
37.00	4395	50.00	16737	63.00	2825	75.00	39866
38.00	3969	51.00	5167	64.00	260	76.00	3455
39.00	1628	52.00	292	65.00	37	76.95	532
40.00	48	53.80	30	66.95	220	77.95	330
42.20	33	54.95	122	68.00	8098	78.90	2209
43.95	438	56.00	1291	69.00	8282	79.90	735
45.00	845	57.00	2405	70.00	662	80.90	2173
45.90	27	57.90	114	70.95	58	81.85	509
47.00	994	59.95	687	71.95	436	83.00	33

Average of 14.716 to 14.726 min.: 3C113330.D

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
86.00	64	103.90	368	125.90	41	142.90	790
86.95	3284	104.90	105	127.85	251	143.80	33
87.95	3221	105.85	335	128.90	167	144.85	65
90.85	319	110.80	74	129.85	333	145.85	159
91.95	2079	111.80	27	130.85	111	146.90	124
92.95	3167	112.90	33	134.00	26	147.95	197
94.00	9171	114.90	104	134.90	203	148.85	52
95.00	77213	115.85	255	136.85	196	149.90	62
96.00	5411	116.85	504	139.90	38	153.95	56
97.00	173	117.90	284	140.90	843	154.85	161
102.85	70	118.85	432	141.90	131	156.85	134

Average of 14.716 to 14.726 min.: 3C113330.D

BFB

Modified:subtracted

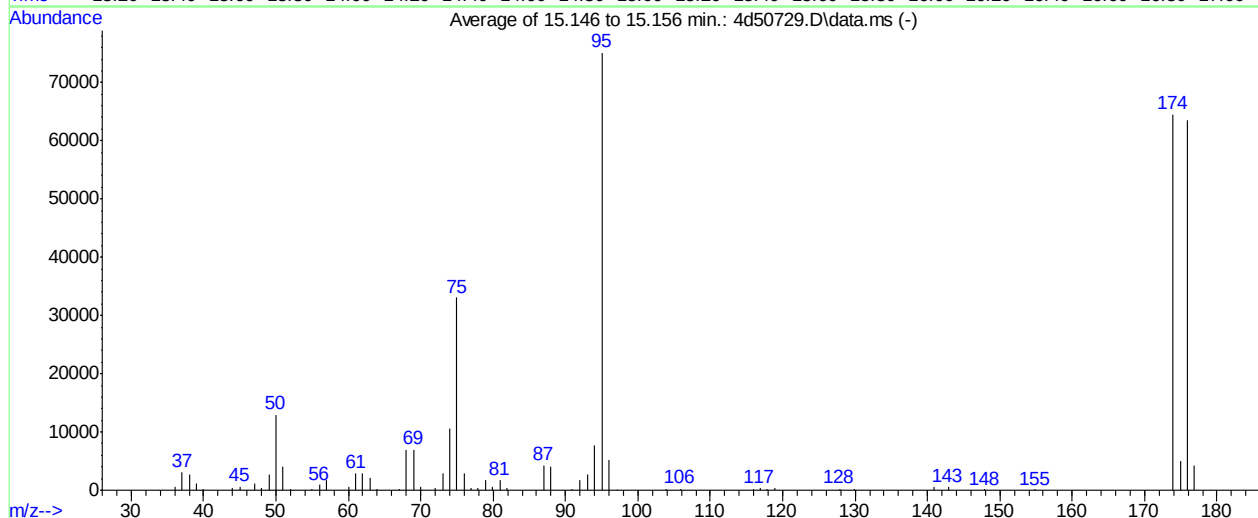
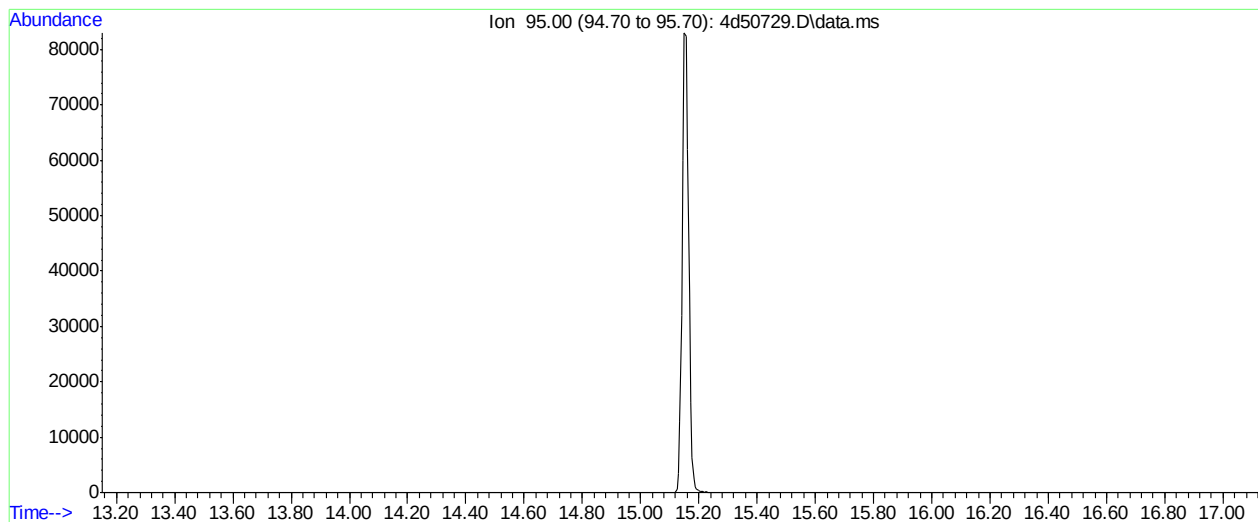
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
158.95	104	207.00	4				
160.85	101	252.90	59				
162.60	27						
171.90	27						
172.90	108						
173.90	66397						
174.90	4760						
175.90	63408						
176.90	4397						
177.85	99						
190.70	26						

SW-846 Method 8260

Data File : C:\msdchem\1\data\4d50729.D
Acq On : 4 Aug 2014 12:17 pm
Sample : bfb
Misc : MS71498,V4D2264,5,,,1
MS Integration Params: rteint5.p

Vial: 1
Operator: PayalR
Inst : MS4D
Multiplr: 1.00

Method : C:\msdchem\1\methods\M4D2264.M (RTE Integrator)
Title : SW-846 Method 8260B/8260C



AutoFind: Scans 2300, 2301, 2302; Background Corrected with Scan 2293

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	17.2	12949	PASS
75	95	30	60	44.0	33048	PASS
95	95	100	100	100.0	75152	PASS
96	95	5	9	6.9	5176	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	85.9	64555	PASS
175	174	5	9	7.6	4928	PASS
176	174	95	101	98.4	63520	PASS
177	176	5	9	6.7	4234	PASS

Average of 15.146 to 15.156 min.: 4d50729.D\data.ms

bfb

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.00	605	51.00	3963	68.00	6958	79.95	520
37.05	3096	52.05	189	69.00	6965	80.90	1801
38.05	2694	55.00	177	70.00	557	81.90	388
39.00	1086	56.00	929	72.00	355	87.00	4283
40.00	193	57.00	1748	73.00	2865	88.00	4037
44.00	336	60.00	639	74.00	10585	90.90	248
45.00	614	61.00	2966	75.00	33048	92.00	1801
47.00	1207	62.00	2829	76.00	2896	93.00	2735
47.95	376	63.00	2206	77.00	487	94.00	7690
49.00	2684	64.00	238	77.95	391	95.00	75152
50.00	12949	67.05	214	78.90	1752	96.00	5176

Average of 15.146 to 15.156 min.: 4d50729.D\data.ms

bfb

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
97.00	55	147.90	117				
103.90	257	154.90	138				
105.90	267	173.90	64555				
115.90	244	174.90	4928				
116.90	370	175.90	63520				
117.90	215	176.90	4234				
118.90	318						
127.85	238						
129.90	223						
140.90	506						
142.90	534						

SW-846 Method 8260

Data File : C:\msdchem\1\data\4d51727.D

Acq On : 8 Sep 2014 8:58 am

Sample : bfb

Misc : MS73134,V4D2303,5,,,,,1

MS Integration Params: rteint5.p

Vial: 1

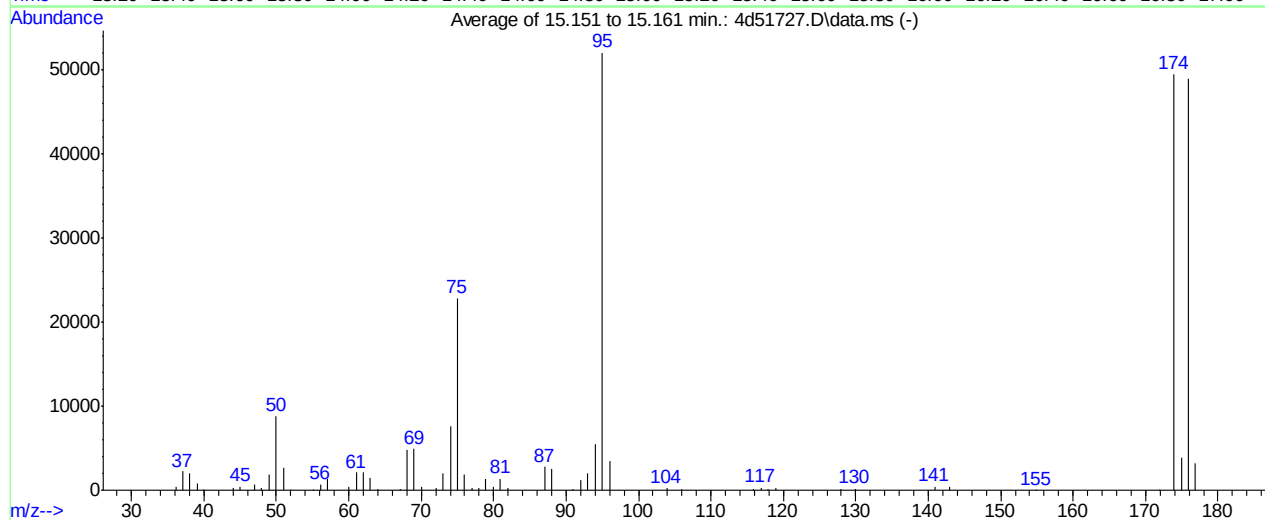
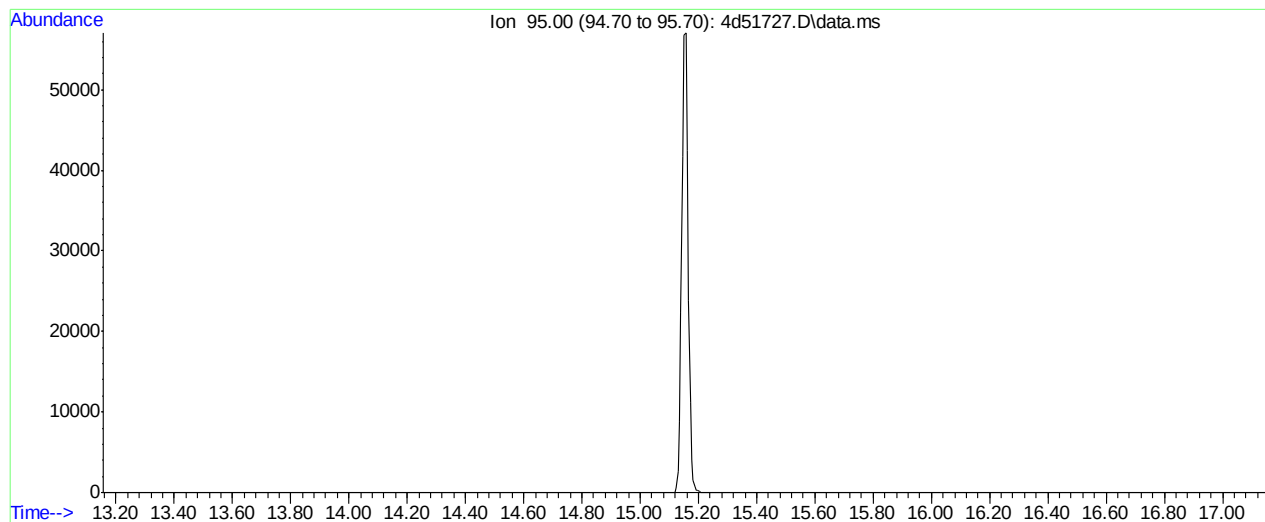
Operator: PayalR

Inst : MS4D

Multiplr: 1.00

Method : C:\MSDCHEM\1\METHODS\M4D2264.M (RTE Integrator)

Title : SW-846 Method 8260B/8260C



AutoFind: Scans 2301, 2302, 2303; Background Corrected with Scan 2293

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	17.0	8842	PASS
75	95	30	60	43.9	22869	PASS
95	95	100	100	100.0	52096	PASS
96	95	5	9	6.7	3475	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	95.0	49504	PASS
175	174	5	9	7.7	3833	PASS
176	174	95	101	98.9	48949	PASS
177	176	5	9	6.6	3236	PASS

Average of 15.151 to 15.161 min.: 4d51727.D\data.ms

bfb

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.10	373	51.00	2639	68.00	4845	79.95	397
37.05	2239	52.00	51	69.00	4885	80.90	1359
38.05	1975	55.00	57	70.00	364	81.90	296
39.05	781	56.05	706	72.00	242	87.00	2796
39.90	51	57.00	1309	73.00	2058	88.00	2604
44.00	223	60.00	404	74.00	7566	90.95	118
45.05	409	61.00	2114	75.00	22869	92.00	1240
47.00	692	62.00	2087	76.00	1906	93.00	1952
47.95	288	63.00	1516	77.00	325	94.00	5476
49.00	1875	64.05	118	78.00	251	95.00	52096
50.00	8842	67.10	104	78.90	1352	96.00	3475

Average of 15.151 to 15.161 min.: 4d51727.D\data.ms

bfb

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
103.90	229	171.90	61				
105.95	197	173.95	49504				
115.90	183	174.95	3833				
116.90	299	175.90	48949				
117.90	187	176.90	3236				
118.90	287						
127.90	117						
129.90	172						
140.90	453						
142.90	451						
154.90	64						

7.5.4

7

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\
 Data File : 3C112039.D
 Acq On : 28 Jul 2014 12:05 pm
 Operator : prashans
 Sample : IC5053-0.2
 Misc : MS70923,V3C5053,5.0,,,,,1
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 29 12:28:25 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M3C5053.M
 Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
 QLast Update : Tue Jul 29 09:47:16 2014
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Tert Butyl Alcohol-d9	7.30	65	63770	500.00	ug/L	0.00
5) pentafluorobenzene	9.53	168	204311	50.00	ug/L	0.00
54) 1,4-difluorobenzene	10.45	114	246442	50.00	ug/L	0.00
83) chlorobenzene-d5	13.59	117	191752	50.00	ug/L	0.00
99) 1,4-dichlorobenzene-d4	15.88	152	86692	50.00	ug/L	0.00

System Monitoring Compounds

45) dibromofluoromethane (s)	0.00	113	0d	0.00	ug/L	
Spiked Amount	50.000	Range	59 - 130	Recovery	=	0.00%#
46) 1,2-dichloroethane-d4 (s)	0.00	65	0d	0.00	ug/L	
Spiked Amount	50.000	Range	65 - 123	Recovery	=	0.00%#
75) toluene-d8 (s)	0.00	98	0d	0.00	ug/L	
Spiked Amount	50.000	Range	80 - 124	Recovery	=	0.00%#
101) 4-bromofluorobenzene (s)	0.00	95	0d	0.00	ug/L	
Spiked Amount	50.000	Range	71 - 132	Recovery	=	0.00%#

Target Compounds

						Qvalue
10) bromomethane	5.21	94	344	0.23	ug/L	# 11
22) iodomethane	6.92	142	465	0.17	ug/L	86
24) carbon disulfide	7.05	76	1243	0.22	ug/L	89
27) methyl tert butyl ether	7.69	73	952	0.20	ug/L	59
28) trans-1,2-dichloroethene	7.73	61	439	0.18	ug/L	81
29) di-isopropyl ether	8.29	45	1108	0.20	ug/L	# 54
30) ethyl tert-butyl ether	8.73	59	1065	0.20	ug/L	74
32) 1,1-dichloroethane	8.28	63	488	0.16	ug/L	# 50
33) chloroprene	8.39	53	456	0.19	ug/L	67
37) 2,2-dichloropropane	9.01	77	544	0.20	ug/L	# 47
38) cis-1,2-dichloroethene	9.02	61	540	0.19	ug/L	76
49) 1,1,1-trichloroethane	9.64	97	480	0.18	ug/L	77
50) Cyclohexane	9.72	84	646	0.22	ug/L	88
52) 2,2,4-trimethylpentane	10.07	57	1213	0.20	ug/L	# 84
57) carbon tetrachloride	9.85	117	491	0.20	ug/L	# 83
58) 1,1-dichloropropene	9.83	75	472	0.20	ug/L	# 60
60) benzene	10.09	78	1498	0.21	ug/L	85
61) heptane	10.26	57	275	0.20	ug/L	83
63) 1,2-dichloroethane	10.11	62	411	0.21	ug/L	# 50
64) trichloroethene	10.79	95	275	0.16	ug/L	# 69
68) 2-chloroethyl vinyl ether	11.60	63	649	0.94	ug/L	67
70) 1,2-dichloropropane	11.05	63	257	0.15	ug/L	76
73) bromodichloromethane	11.36	83	352	0.17	ug/L	82
74) cis-1,3-dichloropropene	11.81	75	442	0.17	ug/L	87
77) toluene	12.16	91	1496	0.20	ug/L	79
79) trans-1,3-dichloropropene	12.37	75	381	0.17	ug/L	84
85) 1,3-dichloropropane	12.75	76	422	0.19	ug/L	81
87) dibromochloromethane	13.01	129	287	0.19	ug/L	76
88) 1,2-dibromoethane	13.16	107	255	0.21	ug/L	94
90) chlorobenzene	13.61	112	1015	0.22	ug/L	92
91) 1,1,1,2-tetrachloroethane	13.67	131	349	0.21	ug/L	85
92) ethylbenzene	13.67	91	1521	0.19	ug/L	91
93) m,p-xylene	13.78	106	1137	0.38	ug/L	87

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\
Data File : 3C112039.D
Acq On : 28 Jul 2014 12:05 pm
Operator : prashans
Sample : IC5053-0.2
Misc : MS70923,V3C5053,5.0,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 29 12:28:25 2014
Quant Method : C:\MSDCHEM\1\METHODS\M3C5053.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Tue Jul 29 09:47:16 2014
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
94) o-xylene	14.19	91	1431	0.22	ug/L	88
95) styrene	14.20	104	947	0.20	ug/L	92
98) bromoform	14.46	173	203	0.21	ug/L #	36
100) isopropylbenzene	14.53	105	1494	0.20	ug/L	83
102) bromobenzene	14.92	156	365	0.21	ug/L #	74
105) 1,1,2,2-tetrachloroethane	14.84	83	352	0.23	ug/L #	26
108) n-propylbenzene	14.93	91	1846	0.22	ug/L	97
110) 2-chlorotoluene	15.08	126	375	0.21	ug/L #	45
111) 4-chlorotoluene	15.19	126	352	0.20	ug/L #	36
112) 1,3,5-trimethylbenzene	15.08	105	1270	0.21	ug/L	93
113) tert-butylbenzene	15.42	119	1024	0.19	ug/L	81
115) 1,2,4-trimethylbenzene	15.47	105	1407	0.23	ug/L	93
116) sec-butylbenzene	15.64	105	1625	0.20	ug/L	89
117) 1,3-dichlorobenzene	15.82	146	750	0.21	ug/L	87
118) p-isopropyltoluene	15.75	119	1263	0.19	ug/L	83
119) 1,4-dichlorobenzene	15.90	146	880	0.25	ug/L	90
120) 1,2-dichlorobenzene	16.30	146	786	0.24	ug/L	92
122) n-butylbenzene	16.16	92	626	0.19	ug/L	89
125) 1,3,5-Trichlorobenzene	17.25	180	598	0.21	ug/L #	74
126) 1,2,4-trichlorobenzene	17.89	180	471	0.21	ug/L #	58
127) hexachlorobutadiene	17.99	225	325	0.21	ug/L #	44
129) 1,2,3-trichlorobenzene	18.40	180	408	0.21	ug/L #	69

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

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\
 Data File : 3C112040.D
 Acq On : 28 Jul 2014 12:33 pm
 Operator : prashans
 Sample : IC5053-0.5
 Misc : MS70923,V3C5053,5.0,,,,,1
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 29 12:30:48 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M3C5053.M
 Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
 QLast Update : Tue Jul 29 12:29:20 2014
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Tert Butyl Alcohol-d9	7.30	65	44951	500.00	ug/L	0.00
5) pentafluorobenzene	9.53	168	175001	50.00	ug/L	0.00
54) 1,4-difluorobenzene	10.45	114	206871	50.00	ug/L	0.00
83) chlorobenzene-d5	13.59	117	161754	50.00	ug/L	0.00
99) 1,4-dichlorobenzene-d4	15.88	152	73363	50.00	ug/L	0.00

System Monitoring Compounds

45) dibromofluoromethane (s)	0.00	113	0d	0.00	ug/L	
Spiked Amount	50.000	Range	59 - 130	Recovery	=	0.00%#
46) 1,2-dichloroethane-d4 (s)	0.00	65	0d	0.00	ug/L	
Spiked Amount	50.000	Range	65 - 123	Recovery	=	0.00%#
75) toluene-d8 (s)	0.00	98	0d	0.00	ug/L	
Spiked Amount	50.000	Range	80 - 124	Recovery	=	0.00%#
101) 4-bromofluorobenzene (s)	0.00	95	0d	0.00	ug/L	
Spiked Amount	50.000	Range	71 - 132	Recovery	=	0.00%#

Target Compounds

						Qvalue
10) bromomethane	5.20	94	753	0.58	ug/L	# 63
11) chloroethane	5.37	64	608	0.57	ug/L	58
18) 1,1-dichloroethene	6.63	61	1194	0.56	ug/L	86
20) allyl chloride	7.15	76	380	0.50	ug/L	# 36
22) iodomethane	6.92	142	1241	0.53	ug/L	82
24) carbon disulfide	7.04	76	2782	0.56	ug/L	97
27) methyl tert butyl ether	7.68	73	2218	0.55	ug/L	86
28) trans-1,2-dichloroethene	7.73	61	1124	0.55	ug/L	93
29) di-isopropyl ether	8.28	45	2928	0.62	ug/L	# 61
30) ethyl tert-butyl ether	8.73	59	2778	0.61	ug/L	85
32) 1,1-dichloroethane	8.30	63	1419	0.55	ug/L	91
33) chloroprene	8.40	53	1100	0.54	ug/L	81
34) acrylonitrile	7.73	53	741	2.04	ug/L	# 76
37) 2,2-dichloropropane	9.03	77	1349	0.58	ug/L	68
38) cis-1,2-dichloroethene	9.03	61	1263	0.51	ug/L	98
41) bromochloromethane	9.34	128	268	0.39	ug/L	# 42
44) tert-Butyl Formate	9.42	59	419	0.46	ug/L	# 79
49) 1,1,1-trichloroethane	9.64	97	1246	0.55	ug/L	89
50) Cyclohexane	9.72	84	1398	0.56	ug/L	94
52) 2,2,4-trimethylpentane	10.08	57	3082	0.60	ug/L	94
57) carbon tetrachloride	9.86	117	1150	0.56	ug/L	99
58) 1,1-dichloropropene	9.83	75	1244	0.62	ug/L	90
60) benzene	10.09	78	3428	0.57	ug/L	92
61) heptane	10.25	57	703	0.60	ug/L	# 77
63) 1,2-dichloroethane	10.10	62	889	0.54	ug/L	75
64) trichloroethene	10.80	95	868	0.60	ug/L	83
68) 2-chloroethyl vinyl ether	11.59	63	1508	2.59	ug/L	88
70) 1,2-dichloropropane	11.06	63	772	0.55	ug/L	93
72) dibromomethane	11.22	93	298	0.42	ug/L	91
73) bromodichloromethane	11.35	83	936	0.53	ug/L	86
74) cis-1,3-dichloropropene	11.80	75	1186	0.54	ug/L	89
77) toluene	12.17	91	3500	0.56	ug/L	93
79) trans-1,3-dichloropropene	12.37	75	999	0.53	ug/L	78

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\
 Data File : 3C112040.D
 Acq On : 28 Jul 2014 12:33 pm
 Operator : prashans
 Sample : IC5053-0.5
 Misc : MS70923,V3C5053,5.0,,,1
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 29 12:30:48 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M3C5053.M
 Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
 QLast Update : Tue Jul 29 12:29:20 2014
 Response via : Initial Calibration

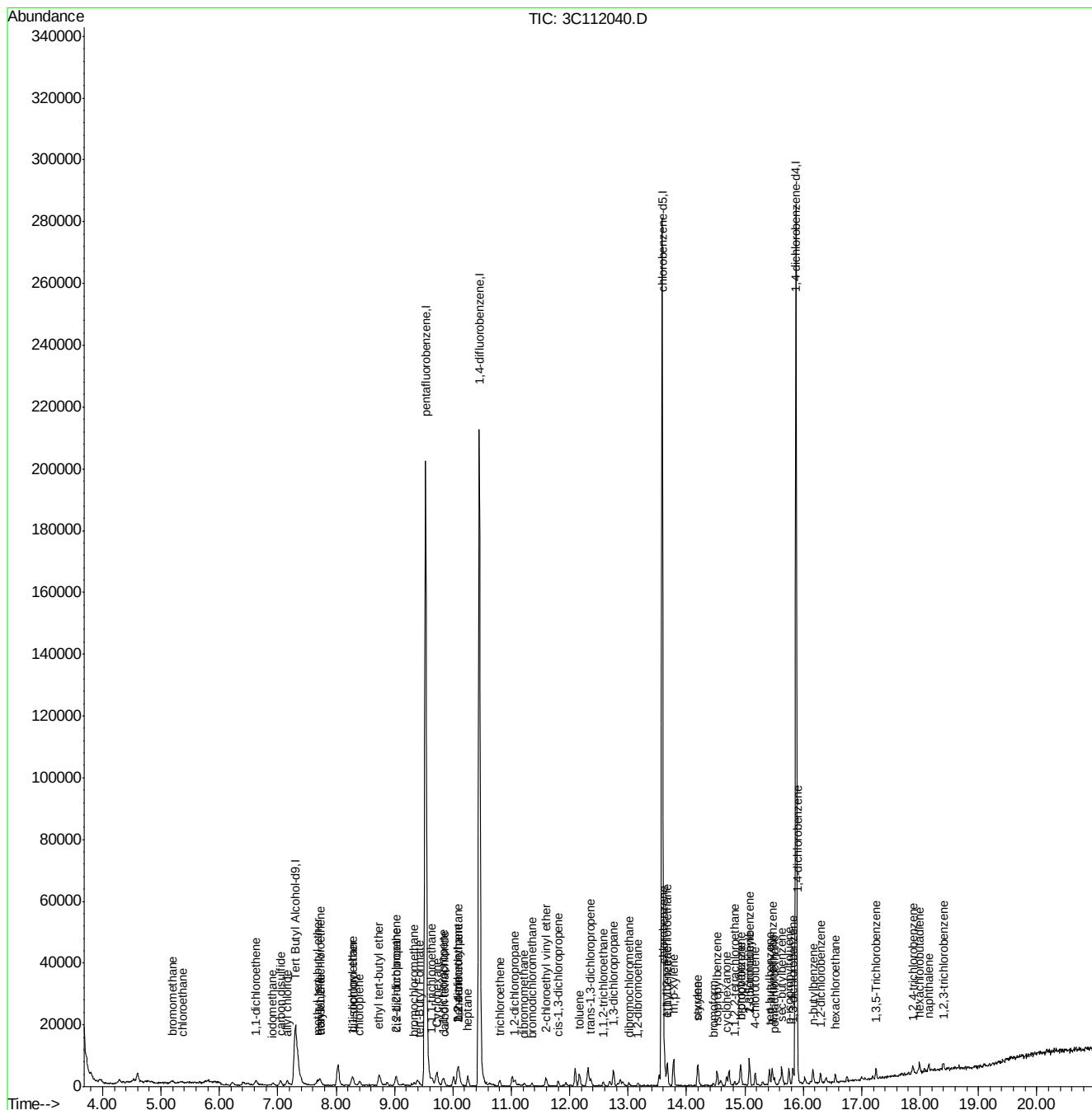
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
81) 1,1,2-trichloroethane	12.58	97	507	0.49	ug/L	79
85) 1,3-dichloropropane	12.75	76	937	0.51	ug/L	75
87) dibromochloromethane	13.02	129	652	0.50	ug/L	90
88) 1,2-dibromoethane	13.16	107	536	0.52	ug/L	89
90) chlorobenzene	13.62	112	2184	0.56	ug/L	93
91) 1,1,1,2-tetrachloroethane	13.67	131	797	0.56	ug/L	87
92) ethylbenzene	13.67	91	3892	0.58	ug/L	96
93) m,p-xylene	13.78	106	2768	1.09	ug/L	88
94) o-xylene	14.19	91	2965	0.55	ug/L	94
95) styrene	14.20	104	2033	0.51	ug/L	98
98) bromoform	14.46	173	380	0.46	ug/L	70
100) isopropylbenzene	14.52	105	3648	0.58	ug/L	96
102) bromobenzene	14.92	156	860	0.57	ug/L #	68
104) cyclohexanone	14.69	55	1377	5.76	ug/L	88
105) 1,1,2,2-tetrachloroethane	14.83	83	738	0.57	ug/L	79
108) n-propylbenzene	14.93	91	3949	0.56	ug/L	98
110) 2-chlorotoluene	15.08	126	853	0.57	ug/L #	66
111) 4-chlorotoluene	15.18	126	775	0.53	ug/L	88
112) 1,3,5-trimethylbenzene	15.08	105	2938	0.56	ug/L	91
113) tert-butylbenzene	15.42	119	2655	0.58	ug/L	89
114) pentachloroethane	15.50	167	467	0.50	ug/L	81
115) 1,2,4-trimethylbenzene	15.47	105	2865	0.56	ug/L	91
116) sec-butylbenzene	15.63	105	3794	0.56	ug/L	92
117) 1,3-dichlorobenzene	15.82	146	1702	0.57	ug/L	85
118) p-isopropyltoluene	15.75	119	3256	0.58	ug/L	97
119) 1,4-dichlorobenzene	15.90	146	1693	0.57	ug/L	88
120) 1,2-dichlorobenzene	16.29	146	1610	0.58	ug/L	84
122) n-butylbenzene	16.17	92	1504	0.55	ug/L	84
125) 1,3,5-Trichlorobenzene	17.25	180	1237	0.51	ug/L	90
126) 1,2,4-trichlorobenzene	17.87	180	968	0.52	ug/L	94
127) hexachlorobutadiene	17.98	225	735	0.57	ug/L	93
128) naphthalene	18.15	128	1822	0.52	ug/L	94
129) 1,2,3-trichlorobenzene	18.40	180	768	0.46	ug/L	80
130) hexachloroethane	16.55	119	628	0.57	ug/L	96

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

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\
Data File : 3C112040.D
Acq On : 28 Jul 2014 12:33 pm
Operator : prashans
Sample : IC5053-0.5
Misc : MS70923,V3C5053,5.0,,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 29 12:30:48 2014
Quant Method : C:\MSDCHEM\1\METHODS\M3C5053.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Tue Jul 29 12:29:20 2014
Response via : Initial Calibration



M3C5053.M Tue Jul 29 17:03:39 2014 MS3C

Page: 3

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\
 Data File : 3C112041.D
 Acq On : 28 Jul 2014 1:01 pm
 Operator : prashans
 Sample : IC5053-1
 Misc : MS70923,V3C5053,5.0,,,,,1
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jul 29 12:32:53 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M3C5053.M
 Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
 QLast Update : Mon Jul 28 09:36:28 2014
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Tert Butyl Alcohol-d9	7.31	65	61861	500.00	ug/L	0.00
5) pentafluorobenzene	9.54	168	203098	50.00	ug/L	0.00
54) 1,4-difluorobenzene	10.45	114	243636	50.00	ug/L	0.00
83) chlorobenzene-d5	13.59	117	193170	50.00	ug/L	0.00
99) 1,4-dichlorobenzene-d4	15.88	152	90521	50.00	ug/L	0.00

System Monitoring Compounds

45) dibromofluoromethane (s)	0.00	113	0d	0.00	ug/L	
Spiked Amount	50.000	Range	59 - 130	Recovery	=	0.00%#
46) 1,2-dichloroethane-d4 (s)	0.00	65	0d	0.00	ug/L	
Spiked Amount	50.000	Range	65 - 123	Recovery	=	0.00%#
75) toluene-d8 (s)	0.00	98	0d	0.00	ug/L	
Spiked Amount	50.000	Range	80 - 124	Recovery	=	0.00%#
101) 4-bromofluorobenzene (s)	0.00	95	0d	0.00	ug/L	
Spiked Amount	50.000	Range	71 - 132	Recovery	=	0.00%#

Target Compounds

Qvalue

6) chlorodifluoromethane	3.97	51	1905	1.06	ug/L	86
7) dichlorodifluoromethane	3.97	85	2050	1.05	ug/L	81
8) chloromethane	4.30	50	2848	1.16	ug/L	93
9) vinyl chloride	4.54	62	2572	1.19	ug/L	83
10) bromomethane	5.20	94	1574	1.13	ug/L	98
11) chloroethane	5.38	64	1395	1.23	ug/L	84
12) 1,3-butadiene	4.61	54	798465	203.65	ug/L	100
15) trichlorofluoromethane	5.82	101	2616	1.12	ug/L	99
16) ethyl ether	6.23	74	901	1.01	ug/L	98
17) acrolein	6.47	56	527569	2073.19	ug/L	96
18) 1,1-dichloroethene	6.65	61	2906	1.30	ug/L	85
20) allyl chloride	7.17	76	930	1.12	ug/L	80
22) iodomethane	6.92	142	2812	1.08	ug/L	96
24) carbon disulfide	7.05	76	6536	1.29	ug/L	96
27) methyl tert butyl ether	7.68	73	4723	1.01	ug/L	96
28) trans-1,2-dichloroethene	7.73	61	2649	1.15	ug/L	94
29) di-isopropyl ether	8.28	45	4973	0.90	ug/L	# 56
30) ethyl tert-butyl ether	8.74	59	4813	0.89	ug/L	93
32) 1,1-dichloroethane	8.30	63	3402	1.17	ug/L	94
33) chloroprene	8.40	53	2391	1.07	ug/L	95
34) acrylonitrile	7.70	53	2022	4.68	ug/L	93
37) 2,2-dichloropropane	9.03	77	2944	1.17	ug/L	98
38) cis-1,2-dichloroethene	9.03	61	3176	1.13	ug/L	93
41) bromochloromethane	9.34	128	808	0.98	ug/L	# 76
43) chloroform	9.40	83	3238	1.13	ug/L	96
44) tert-Butyl Formate	9.43	59	961	0.89	ug/L	# 88
47) freon 113	6.60	151	1062	0.91	ug/L	88
49) 1,1,1-trichloroethane	9.65	97	3031	1.23	ug/L	97
50) Cyclohexane	9.73	84	3048	1.23	ug/L	96
52) 2,2,4-trimethylpentane	10.09	57	5821	1.08	ug/L	95
53) tert-amyl methyl ether	10.11	73	4841	0.99	ug/L	96
55) epichlorohydrin	11.72	57	493	4.13	ug/L	68
57) carbon tetrachloride	9.85	117	2555	1.19	ug/L	85

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\
 Data File : 3C112041.D
 Acq On : 28 Jul 2014 1:01 pm
 Operator : prashans
 Sample : IC5053-1
 Misc : MS70923,V3C5053,5.0,,,1
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jul 29 12:32:53 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M3C5053.M
 Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
 QLast Update : Mon Jul 28 09:36:28 2014
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
58) 1,1-dichloropropene	9.83	75	2555	1.18	ug/L	94
60) benzene	10.09	78	7795	1.14	ug/L	98
61) heptane	10.26	57	1299	1.06	ug/L	88
63) 1,2-dichloroethane	10.10	62	1959	1.03	ug/L	94
64) trichloroethene	10.80	95	1712	1.06	ug/L	97
68) 2-chloroethyl vinyl ether	11.58	63	2972	4.23	ug/L	90
70) 1,2-dichloropropane	11.07	63	1691	1.00	ug/L	98
71) methylcyclohexane	11.02	83	2588	0.95	ug/L	96
72) dibromomethane	11.22	93	897	1.05	ug/L #	73
73) bromodichloromethane	11.35	83	2177	1.02	ug/L	88
74) cis-1,3-dichloropropene	11.81	75	2579	0.97	ug/L	97
77) toluene	12.17	91	7965	1.13	ug/L	95
79) trans-1,3-dichloropropene	12.36	75	2122	0.90	ug/L	87
80) ethyl methacrylate	12.36	69	1661	0.94	ug/L	93
81) 1,1,2-trichloroethane	12.58	97	1236	0.97	ug/L	90
82) 2-hexanone	12.76	58	438	1.01	ug/L #	61
84) tetrachloroethene	12.74	166	2331	1.30	ug/L	89
85) 1,3-dichloropropane	12.75	76	2406	1.07	ug/L	90
87) dibromochloromethane	13.02	129	1561	0.99	ug/L	82
88) 1,2-dibromoethane	13.16	107	1208	1.00	ug/L	95
90) chlorobenzene	13.62	112	4969	1.09	ug/L	81
91) 1,1,1,2-tetrachloroethane	13.67	131	1672	0.99	ug/L	83
92) ethylbenzene	13.67	91	9005	1.16	ug/L	91
93) m,p-xylene	13.77	106	6525	2.20	ug/L	96
94) o-xylene	14.19	91	6792	1.07	ug/L	99
95) styrene	14.20	104	4693	0.98	ug/L	97
98) bromoform	14.46	173	998	1.05	ug/L	93
100) isopropylbenzene	14.53	105	8678	1.21	ug/L	95
102) bromobenzene	14.92	156	1883	1.07	ug/L	83
103) cis-1,4-dichloro-2-butene	14.59	88	108068	213.32	ug/L	99
104) cyclohexanone	14.68	55	3179	14.42	ug/L	91
105) 1,1,2,2-tetrachloroethane	14.83	83	1553	1.01	ug/L	95
107) 1,2,3-trichloropropane	14.90	110	462	1.09	ug/L	67
108) n-propylbenzene	14.93	91	9305	1.17	ug/L	98
110) 2-chlorotoluene	15.08	126	1874	1.08	ug/L	99
111) 4-chlorotoluene	15.18	126	1926	1.11	ug/L	90
112) 1,3,5-trimethylbenzene	15.08	105	6777	1.12	ug/L	93
113) tert-butylbenzene	15.42	119	6144	1.16	ug/L	98
114) pentachloroethane	15.50	167	1175	1.02	ug/L	95
115) 1,2,4-trimethylbenzene	15.47	105	6278	1.07	ug/L	86
116) sec-butylbenzene	15.64	105	8948	1.16	ug/L	99
117) 1,3-dichlorobenzene	15.82	146	4008	0.60	ug/L	97
118) p-isopropyltoluene	15.75	119	7433	1.09	ug/L	99
119) 1,4-dichlorobenzene	15.90	146	3818	0.52	ug/L	95
120) 1,2-dichlorobenzene	16.29	146	3406	0.38	ug/L	100
122) n-butylbenzene	16.16	92	3736	1.15	ug/L	97
124) 1,2-dibromo-3-chloropropan	17.05	157	344	1.14	ug/L	89
125) 1,3,5-Trichlorobenzene	17.25	180	3164	1.14	ug/L	96
126) 1,2,4-trichlorobenzene	17.88	180	2349	1.06	ug/L	84
127) hexachlorobutadiene	17.99	225	1706	1.19	ug/L	89

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\
Data File : 3C112041.D
Acq On : 28 Jul 2014 1:01 pm
Operator : prashans
Sample : IC5053-1
Misc : MS70923,V3C5053,5.0,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jul 29 12:32:53 2014
Quant Method : C:\MSDCHEM\1\METHODS\M3C5053.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Mon Jul 28 09:36:28 2014
Response via : Initial Calibration

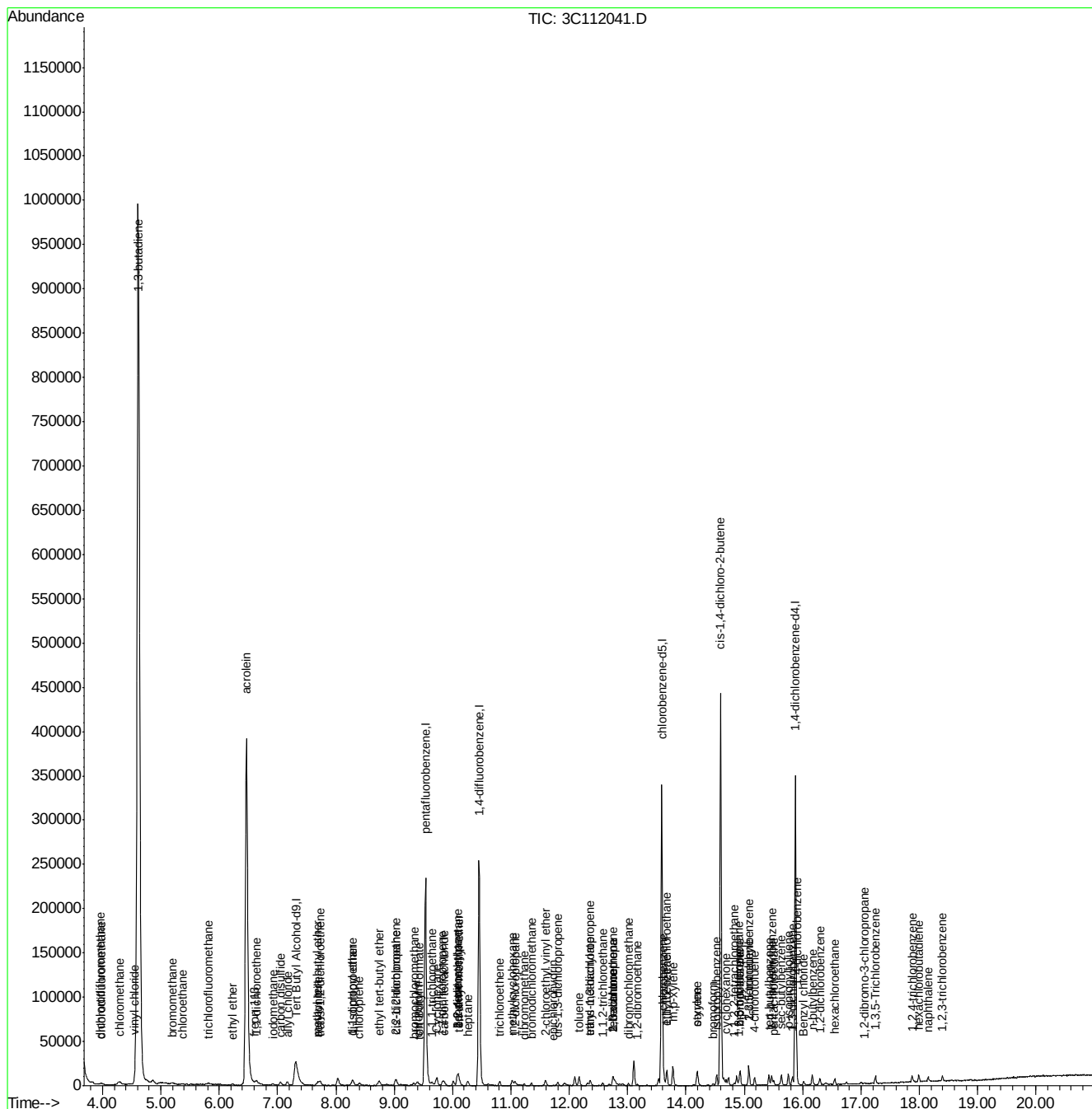
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
128) naphthalene	18.15	128	4198	0.99	ug/L	98
129) 1,2,3-trichlorobenzene	18.40	180	1942	0.97	ug/L	91
130) hexachloroethane	16.55	119	1436	1.12	ug/L	95
131) Benzyl chloride	16.02	91	2877	0.98	ug/L	94

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

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\
Data File : 3C112041.D
Acq On : 28 Jul 2014 1:01 pm
Operator : prashans
Sample : IC5053-1
Misc : MS70923,V3C5053,5.0,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jul 29 12:32:53 2014
Quant Method : C:\MSDCHEM\1\METHODS\M3C5053.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Mon Jul 28 09:36:28 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\
 Data File : 3C112042.D
 Acq On : 28 Jul 2014 1:29 pm
 Operator : prashans
 Sample : IC5053-2
 Misc : MS70923,V3C5053,5.0,,,1
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jul 29 12:33:53 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M3C5053.M
 Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
 QLast Update : Mon Jul 28 09:36:28 2014
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Tert Butyl Alcohol-d9	7.30	65	56362	500.00	ug/L	-0.01
5) pentafluorobenzene	9.53	168	202306	50.00	ug/L	0.00
54) 1,4-difluorobenzene	10.45	114	240397	50.00	ug/L	0.00
83) chlorobenzene-d5	13.59	117	187658	50.00	ug/L	0.00
99) 1,4-dichlorobenzene-d4	15.88	152	85908	50.00	ug/L	0.00

System Monitoring Compounds

45) dibromofluoromethane (s)	0.00	113	0d	0.00	ug/L	
Spiked Amount	50.000	Range	59 - 130	Recovery	=	0.00%#
46) 1,2-dichloroethane-d4 (s)	0.00	65	0d	0.00	ug/L	
Spiked Amount	50.000	Range	65 - 123	Recovery	=	0.00%#
75) toluene-d8 (s)	12.10	98	13081	2.31	ug/L	0.00
Spiked Amount	50.000	Range	80 - 124	Recovery	=	4.62%#
101) 4-bromofluorobenzene (s)	0.00	95	0d	0.00	ug/L	
Spiked Amount	50.000	Range	71 - 132	Recovery	=	0.00%#

Target Compounds

Qvalue

3) tertiary butyl alcohol	7.43	59	1472	8.73	ug/L	78
6) chlorodifluoromethane	3.97	51	3568	1.99	ug/L	97
7) dichlorodifluoromethane	3.96	85	4215	2.17	ug/L	98
8) chloromethane	4.29	50	4882	2.00	ug/L	98
9) vinyl chloride	4.54	62	4411	2.05	ug/L	97
10) bromomethane	5.20	94	2884	2.07	ug/L	84
11) chloroethane	5.35	64	2262	2.01	ug/L	83
12) 1,3-butadiene	4.61	54	394445	101.00	ug/L	100
15) trichlorofluoromethane	5.82	101	5012	2.15	ug/L	91
16) ethyl ether	6.23	74	1981	2.22	ug/L	86
17) acrolein	6.46	56	252281	995.27	ug/L	97
18) 1,1-dichloroethene	6.65	61	4868	2.19	ug/L	79
20) allyl chloride	7.17	76	1773	2.15	ug/L	74
21) acetonitrile	7.15	40	2105	19.31	ug/L	# 1
22) iodomethane	6.92	142	5540	2.13	ug/L	99
23) iso-butyl alcohol	9.84	41	808	17.21	ug/L	93
24) carbon disulfide	7.05	76	11578	2.29	ug/L	96
27) methyl tert butyl ether	7.68	73	9461	2.04	ug/L	95
28) trans-1,2-dichloroethene	7.73	61	4845	2.12	ug/L	92
29) di-isopropyl ether	8.27	45	9709	1.76	ug/L	# 58
30) ethyl tert-butyl ether	8.74	59	9366	1.74	ug/L	97
32) 1,1-dichloroethane	8.29	63	5941	2.04	ug/L	96
33) chloroprene	8.40	53	4108	1.85	ug/L	95
34) acrylonitrile	7.69	53	4102	9.54	ug/L	93
37) 2,2-dichloropropane	9.02	77	5695	2.28	ug/L	98
38) cis-1,2-dichloroethene	9.02	61	5639	2.02	ug/L	97
39) propionitrile	9.10	54	3260	19.91	ug/L	# 59
41) bromochloromethane	9.33	128	1664	2.02	ug/L	# 79
42) tetrahydrofuran	9.38	72	276	1.64	ug/L	# 54
43) chloroform	9.39	83	5868	2.06	ug/L	96
44) tert-Butyl Formate	9.42	59	1895	1.77	ug/L	# 97
47) freon 113	6.62	151	2273	1.96	ug/L	84
48) methacrylonitrile	9.28	41	1593	2.24	ug/L	84

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\
 Data File : 3C112042.D
 Acq On : 28 Jul 2014 1:29 pm
 Operator : prashans
 Sample : IC5053-2
 Misc : MS70923,V3C5053,5.0,,,,,1
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jul 29 12:33:53 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M3C5053.M
 Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
 QLast Update : Mon Jul 28 09:36:28 2014
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
49) 1,1,1-trichloroethane	9.65	97	5302	2.16	ug/L	94
50) Cyclohexane	9.73	84	5753	2.33	ug/L	98
52) 2,2,4-trimethylpentane	10.09	57	10782	2.01	ug/L	96
53) tert-amyl methyl ether	10.11	73	9260	1.90	ug/L	95
55) epichlorohydrin	11.71	57	1077	9.14	ug/L	58
56) n-butyl alcohol	10.60	56	3109	74.78	ug/L	89
57) carbon tetrachloride	9.85	117	4763	2.25	ug/L	94
58) 1,1-dichloropropene	9.83	75	4595	2.16	ug/L	93
60) benzene	10.09	78	14098	2.09	ug/L	97
61) heptane	10.25	57	2498	2.06	ug/L	93
63) 1,2-dichloroethane	10.10	62	3901	2.09	ug/L	95
64) trichloroethene	10.80	95	3469	2.17	ug/L	86
67) 2-nitropropane	11.56	41	907	2.02	ug/L	86
68) 2-chloroethyl vinyl ether	11.59	63	6103	8.80	ug/L	96
69) methyl methacrylate	11.08	100	636	1.82	ug/L #	28
70) 1,2-dichloropropane	11.06	63	3252	1.95	ug/L	96
71) methylcyclohexane	11.02	83	5699	2.11	ug/L	91
72) dibromomethane	11.22	93	1709	2.03	ug/L	91
73) bromodichloromethane	11.35	83	4196	1.99	ug/L	93
74) cis-1,3-dichloropropene	11.80	75	4897	1.87	ug/L	100
76) 4-methyl-2-pentanone	11.90	58	886	1.85	ug/L #	83
77) toluene	12.16	91	14653	2.11	ug/L	99
78) 3-methyl-1-butanol	11.92	70	1172	29.61	ug/L	98
79) trans-1,3-dichloropropene	12.36	75	4503	1.94	ug/L	99
80) ethyl methacrylate	12.35	69	3214	1.84	ug/L	97
81) 1,1,2-trichloroethane	12.57	97	2420	1.92	ug/L	88
82) 2-hexanone	12.75	58	754	1.77	ug/L	85
84) tetrachloroethene	12.74	166	4098	2.35	ug/L	90
85) 1,3-dichloropropane	12.75	76	4403	2.02	ug/L	96
86) butyl acetate	12.82	56	1924	2.44	ug/L #	77
87) dibromochloromethane	13.02	129	3091	2.02	ug/L	90
88) 1,2-dibromoethane	13.17	107	2423	2.06	ug/L	88
89) 3,3-Dimethyl-1-Butanol	12.91	57	2415	17.58	ug/L #	94
90) chlorobenzene	13.62	112	8949	2.03	ug/L	99
91) 1,1,1,2-tetrachloroethane	13.67	131	3157	1.92	ug/L	94
92) ethylbenzene	13.67	91	16032	2.13	ug/L	94
93) m,p-xylene	13.77	106	12074	4.18	ug/L	86
94) o-xylene	14.19	91	12352	2.01	ug/L	97
95) styrene	14.20	104	9136	1.96	ug/L	97
98) bromoform	14.46	173	1808	1.96	ug/L	92
100) isopropylbenzene	14.53	105	14835	2.17	ug/L	95
102) bromobenzene	14.92	156	3723	2.23	ug/L	95
103) cis-1,4-dichloro-2-butene	14.59	88	50868	105.80	ug/L	97
104) cyclohexanone	14.69	55	5957	28.48	ug/L	97
105) 1,1,2,2-tetrachloroethane	14.83	83	3117	2.14	ug/L	99
107) 1,2,3-trichloropropane	14.90	110	870	2.16	ug/L	76
108) n-propylbenzene	14.93	91	16656	2.21	ug/L	98
110) 2-chlorotoluene	15.08	126	3610	2.19	ug/L	93
111) 4-chlorotoluene	15.18	126	3625	2.21	ug/L	88
112) 1,3,5-trimethylbenzene	15.08	105	12730	2.22	ug/L	95

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\
Data File : 3C112042.D
Acq On : 28 Jul 2014 1:29 pm
Operator : prashans
Sample : IC5053-2
Misc : MS70923,V3C5053,5.0,,,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jul 29 12:33:53 2014
Quant Method : C:\MSDCHEM\1\METHODS\M3C5053.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Mon Jul 28 09:36:28 2014
Response via : Initial Calibration

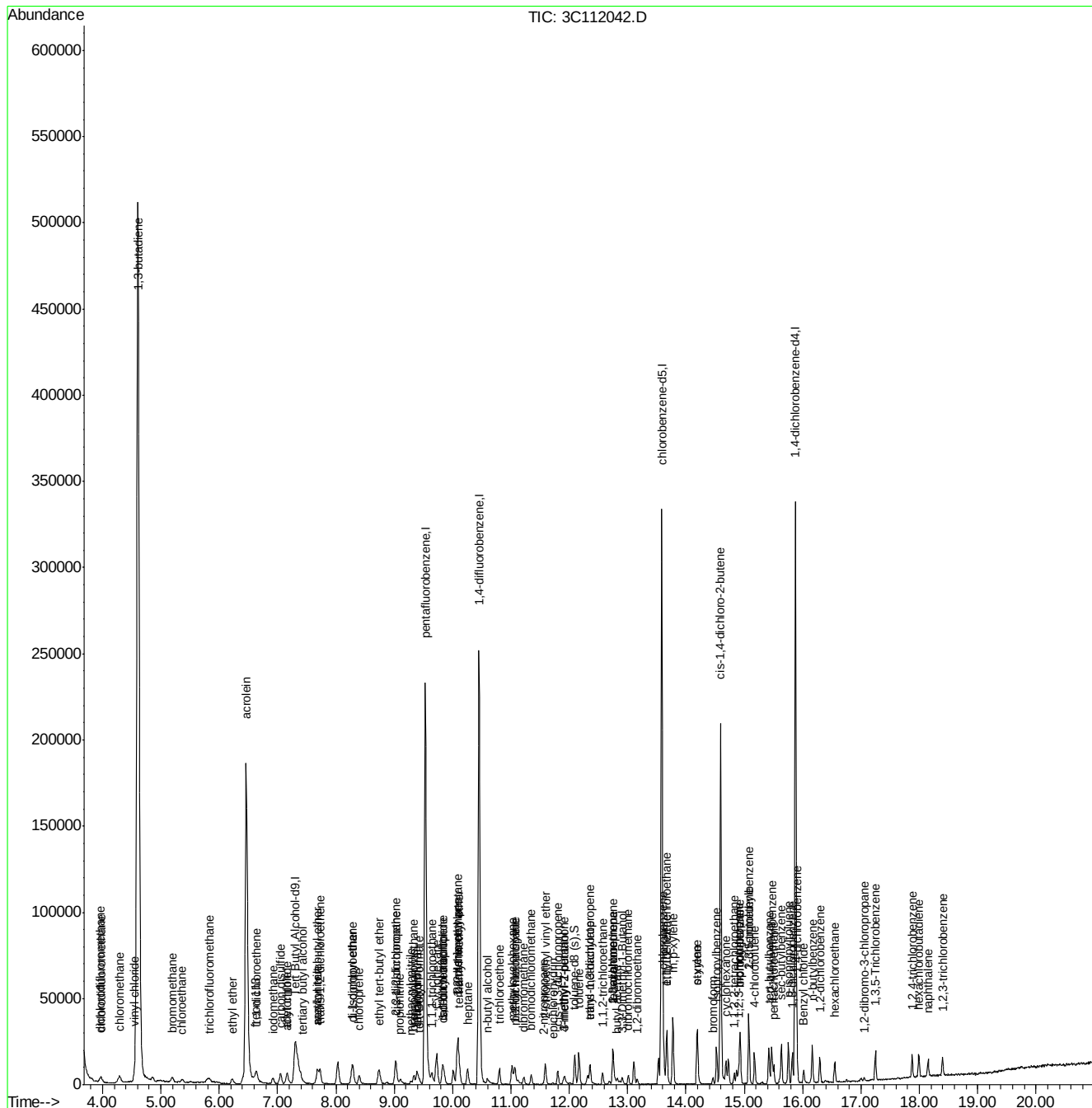
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
113) tert-butylbenzene	15.42	119	10805	2.16	ug/L	98
114) pentachloroethane	15.51	167	2281	2.09	ug/L	91
115) 1,2,4-trimethylbenzene	15.47	105	12013	2.16	ug/L	85
116) sec-butylbenzene	15.64	105	16116	2.19	ug/L	97
117) 1,3-dichlorobenzene	15.82	146	7123	1.68	ug/L	97
118) p-isopropyltoluene	15.75	119	13495	2.08	ug/L	96
119) 1,4-dichlorobenzene	15.91	146	7036	1.65	ug/L	94
120) 1,2-dichlorobenzene	16.30	146	6439	1.49	ug/L	94
122) n-butylbenzene	16.16	92	6458	2.10	ug/L	91
124) 1,2-dibromo-3-chloropropan	17.06	157	616	2.15	ug/L	93
125) 1,3,5-Trichlorobenzene	17.25	180	5553	2.11	ug/L	97
126) 1,2,4-trichlorobenzene	17.88	180	4107	1.95	ug/L	96
127) hexachlorobutadiene	17.99	225	3123	2.30	ug/L	97
128) naphthalene	18.15	128	7755	1.92	ug/L	98
129) 1,2,3-trichlorobenzene	18.40	180	3820	2.01	ug/L	88
130) hexachloroethane	16.55	119	2681	2.20	ug/L	94
131) Benzyl chloride	16.02	91	5512	1.97	ug/L	99

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

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\
Data File : 3C112042.D
Acq On : 28 Jul 2014 1:29 pm
Operator : prashans
Sample : IC5053-2
Misc : MS70923,V3C5053,5.0,,,,,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jul 29 12:33:53 2014
Quant Method : C:\MSDCHEM\1\METHODS\M3C5053.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Mon Jul 28 09:36:28 2014
Response via : Initial Calibration



M3C5053.M Tue Jul 29 17:03:41 2014 MS3C

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7.6.4

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\
 Data File : 3C112043.D
 Acq On : 28 Jul 2014 1:57 pm
 Operator : prashans
 Sample : IC5053-5
 Misc : MS70923,V3C5053,5.0,,,,,1
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jul 29 12:34:11 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M3C5053.M
 Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
 QLast Update : Mon Jul 28 09:36:28 2014
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Tert Butyl Alcohol-d9	7.31	65	47989	500.00	ug/L	0.00
5) pentafluorobenzene	9.54	168	181859	50.00	ug/L	0.00
54) 1,4-difluorobenzene	10.45	114	215528	50.00	ug/L	0.00
83) chlorobenzene-d5	13.59	117	169610	50.00	ug/L	0.00
99) 1,4-dichlorobenzene-d4	15.88	152	79030	50.00	ug/L	0.00

System Monitoring Compounds

45) dibromofluoromethane (s)	9.59	113	7898	5.90	ug/L	0.00
Spiked Amount	50.000	Range	59 - 130	Recovery	=	11.80%#
46) 1,2-dichloroethane-d4 (s)	10.01	65	8185	5.81	ug/L	0.00
Spiked Amount	50.000	Range	65 - 123	Recovery	=	11.62%#
75) toluene-d8 (s)	12.09	98	29086	5.72	ug/L	0.00
Spiked Amount	50.000	Range	80 - 124	Recovery	=	11.44%#
101) 4-bromofluorobenzene (s)	14.73	95	9990	5.72	ug/L	0.00
Spiked Amount	50.000	Range	71 - 132	Recovery	=	11.44%#

Target Compounds

						Qvalue
2) 1,4-dioxane	11.18	88	1599	130.52	ug/L	# 99
3) tertiary butyl alcohol	7.42	59	4031	28.09	ug/L	96
6) chlorodifluoromethane	3.97	51	9865	6.14	ug/L	99
7) dichlorodifluoromethane	3.96	85	11091	6.34	ug/L	95
8) chloromethane	4.29	50	12436	5.67	ug/L	99
9) vinyl chloride	4.53	62	11166	5.78	ug/L	97
10) bromomethane	5.20	94	6921	5.53	ug/L	95
11) chloroethane	5.37	64	6104	6.03	ug/L	98
12) 1,3-butadiene	4.61	54	20931	5.96	ug/L	98
15) trichlorofluoromethane	5.81	101	13152	6.28	ug/L	93
16) ethyl ether	6.22	74	4549	5.67	ug/L	77
17) acrolein	6.48	56	11898	52.22	ug/L	98
18) 1,1-dichloroethene	6.65	61	11657	5.82	ug/L	95
19) acetone	6.70	58	819	7.11	ug/L	95
20) allyl chloride	7.16	76	4101	5.53	ug/L	87
21) acetonitrile	7.13	40	5449	55.61	ug/L	97
22) iodomethane	6.92	142	12957	5.54	ug/L	92
23) iso-butyl alcohol	9.83	41	2404	56.98	ug/L	# 70
24) carbon disulfide	7.05	76	27085	5.96	ug/L	97
25) methylene chloride	7.35	84	9127	6.07	ug/L	98
26) methyl acetate	7.16	74	827	4.73	ug/L	# 15
27) methyl tert butyl ether	7.69	73	21639	5.18	ug/L	98
28) trans-1,2-dichloroethene	7.73	61	11078	5.39	ug/L	95
29) di-isopropyl ether	8.28	45	27500	5.55	ug/L	# 76
30) ethyl tert-butyl ether	8.74	59	26917	5.57	ug/L	99
31) 2-butanone	9.02	72	726	5.43	ug/L	# 78
32) 1,1-dichloroethane	8.29	63	14225	5.44	ug/L	96
33) chloroprene	8.40	53	12220	6.13	ug/L	94
34) acrylonitrile	7.68	53	9798	25.35	ug/L	94
35) vinyl acetate	8.28	86	1184	5.28	ug/L	59
36) ethyl acetate	9.03	45	793	5.41	ug/L	# 1
37) 2,2-dichloropropane	9.03	77	12649	5.63	ug/L	98
38) cis-1,2-dichloroethene	9.03	61	13854	5.53	ug/L	95

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\
 Data File : 3C112043.D
 Acq On : 28 Jul 2014 1:57 pm
 Operator : prashans
 Sample : IC5053-5
 Misc : MS70923,V3C5053,5.0,,,1
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jul 29 12:34:11 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M3C5053.M
 Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
 QLast Update : Mon Jul 28 09:36:28 2014
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) propionitrile	9.09	54	7828	53.18	ug/L	70
40) Methyl Acrylate	9.11	85	521	4.52	ug/L #	1
41) bromochloromethane	9.34	128	3794	5.13	ug/L	90
42) tetrahydrofuran	9.38	72	893	5.90	ug/L	97
43) chloroform	9.39	83	13658	5.34	ug/L	97
44) tert-Butyl Formate	9.42	59	5423	5.63	ug/L #	99
47) freon 113	6.61	151	6695	6.43	ug/L	89
48) methacrylonitrile	9.28	41	3232	5.05	ug/L	89
49) 1,1,1-trichloroethane	9.65	97	12460	5.64	ug/L	95
50) Cyclohexane	9.72	84	13518	6.10	ug/L	96
52) 2,2,4-trimethylpentane	10.08	57	30266	6.28	ug/L	100
53) tert-amyl methyl ether	10.11	73	25327	5.79	ug/L	99
55) epichlorohydrin	11.71	57	3023	28.63	ug/L	92
56) n-butyl alcohol	10.58	56	9617	257.99	ug/L	99
57) carbon tetrachloride	9.85	117	11182	5.89	ug/L	95
58) 1,1-dichloropropene	9.83	75	10818	5.67	ug/L	98
59) hexane	8.04	57	16153	8.81	ug/L	97
60) benzene	10.09	78	32646	5.39	ug/L	98
61) heptane	10.25	57	7079	6.53	ug/L	97
62) isopropyl acetate	10.00	87	1431	5.46	ug/L	94
63) 1,2-dichloroethane	10.10	62	8670	5.17	ug/L	97
64) trichloroethene	10.80	95	7965	5.57	ug/L	93
67) 2-nitropropane	11.56	41	2038	5.07	ug/L	98
68) 2-chloroethyl vinyl ether	11.58	63	17076	27.45	ug/L	97
69) methyl methacrylate	11.07	100	1415	4.52	ug/L #	83
70) 1,2-dichloropropane	11.06	63	7591	5.08	ug/L	94
71) methylcyclohexane	11.02	83	15676	6.48	ug/L	98
72) dibromomethane	11.22	93	3965	5.25	ug/L	90
73) bromodichloromethane	11.35	83	9637	5.11	ug/L	99
74) cis-1,3-dichloropropene	11.80	75	12322	5.25	ug/L	97
76) 4-methyl-2-pentanone	11.90	58	2065	4.82	ug/L #	87
77) toluene	12.16	91	33501	5.39	ug/L	98
78) 3-methyl-1-butanol	11.92	70	3599	101.42	ug/L	96
79) trans-1,3-dichloropropene	12.36	75	10333	4.98	ug/L	97
80) ethyl methacrylate	12.35	69	7927	5.05	ug/L	98
81) 1,1,2-trichloroethane	12.57	97	5789	5.12	ug/L	96
82) 2-hexanone	12.75	58	2111	5.53	ug/L	95
84) tetrachloroethene	12.74	166	9309	5.91	ug/L	96
85) 1,3-dichloropropane	12.75	76	10065	5.12	ug/L	96
86) butyl acetate	12.81	56	4115	5.77	ug/L	99
87) dibromochloromethane	13.02	129	7205	5.21	ug/L	94
88) 1,2-dibromoethane	13.16	107	5368	5.06	ug/L	91
89) 3,3-Dimethyl-1-Butanol	12.91	57	6364	51.26	ug/L #	97
90) chlorobenzene	13.62	112	20567	5.15	ug/L	98
91) 1,1,1,2-tetrachloroethane	13.68	131	7384	4.96	ug/L	97
92) ethylbenzene	13.67	91	36537	5.37	ug/L	99
93) m,p-xylene	13.77	106	27943	10.72	ug/L	99
94) o-xylene	14.19	91	28851	5.20	ug/L	98
95) styrene	14.20	104	20886	4.97	ug/L	98
98) bromoform	14.46	173	4419	5.31	ug/L	91

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\
Data File : 3C112043.D
Acq On : 28 Jul 2014 1:57 pm
Operator : prashans
Sample : IC5053-5
Misc : MS70923,V3C5053,5.0,,,1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jul 29 12:34:11 2014
Quant Method : C:\MSDCHEM\1\METHODS\M3C5053.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Mon Jul 28 09:36:28 2014
Response via : Initial Calibration

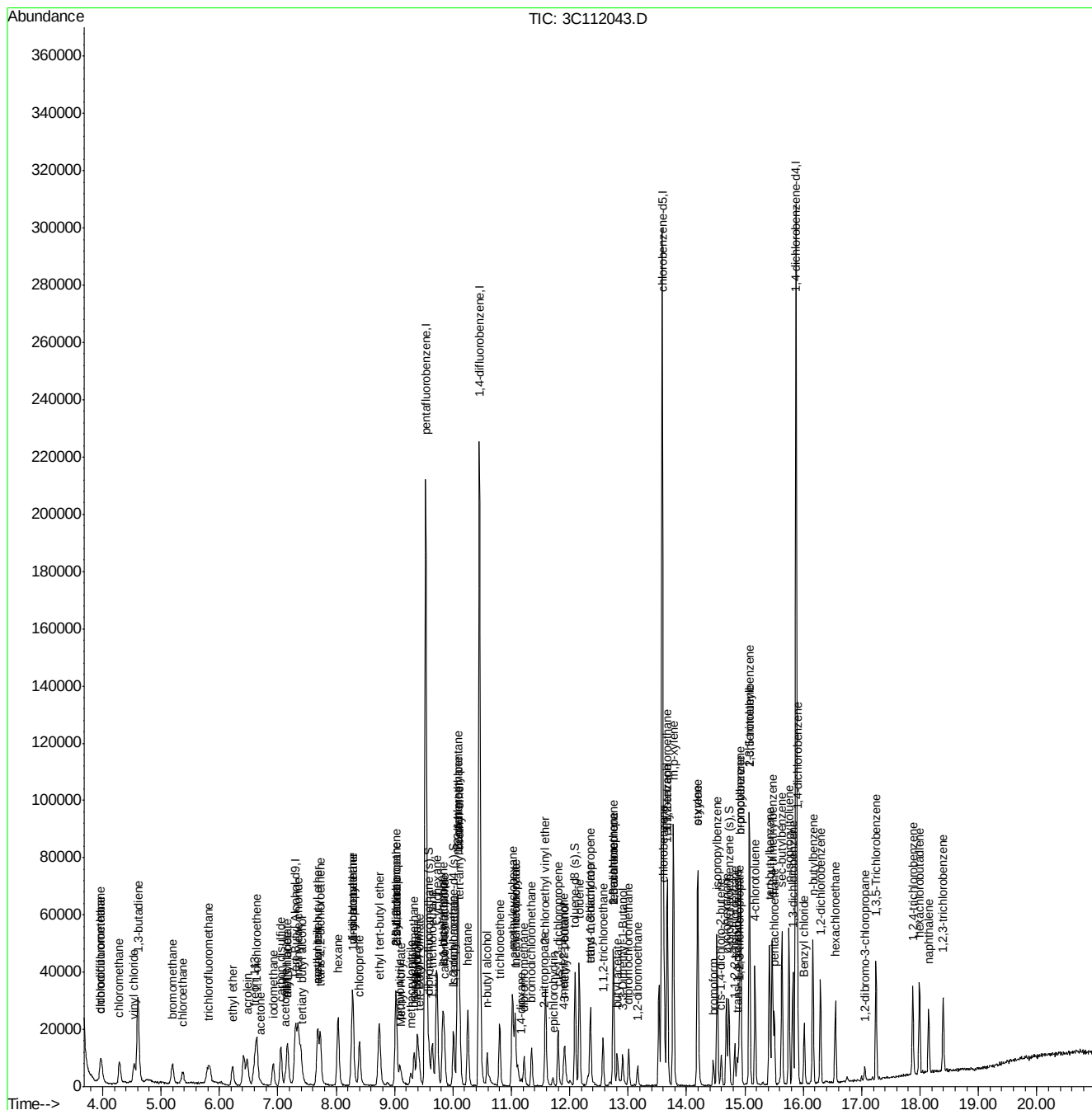
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
100) isopropylbenzene	14.52	105	36016	5.74	ug/L	100
102) bromobenzene	14.92	156	8429	5.48	ug/L	87
103) cis-1,4-dichloro-2-butene	14.60	88	2553	5.77	ug/L	96
104) cyclohexanone	14.69	55	13474	70.02	ug/L	97
105) 1,1,2,2-tetrachloroethane	14.83	83	7276	5.44	ug/L	94
106) trans-1,4-dichloro-2-buten	14.87	53	1851	5.39	ug/L	98
107) 1,2,3-trichloropropane	14.90	110	1956	5.28	ug/L	96
108) n-propylbenzene	14.93	91	40535	5.85	ug/L	98
110) 2-chlorotoluene	15.08	126	8452	5.58	ug/L	94
111) 4-chlorotoluene	15.17	126	8443	5.58	ug/L	95
112) 1,3,5-trimethylbenzene	15.08	105	29561	5.59	ug/L	97
113) tert-butylbenzene	15.42	119	25254	5.48	ug/L	97
114) pentachloroethane	15.51	167	5199	5.17	ug/L	96
115) 1,2,4-trimethylbenzene	15.47	105	28188	5.50	ug/L	97
116) sec-butylbenzene	15.64	105	38118	5.64	ug/L	99
117) 1,3-dichlorobenzene	15.82	146	16398	5.15	ug/L	100
118) p-isopropyltoluene	15.75	119	32078	5.37	ug/L	99
119) 1,4-dichlorobenzene	15.90	146	16219	5.13	ug/L	96
120) 1,2-dichlorobenzene	16.30	146	14718	4.78	ug/L	99
122) n-butylbenzene	16.16	92	15597	5.51	ug/L	99
124) 1,2-dibromo-3-chloropropan	17.05	157	1366	5.19	ug/L	92
125) 1,3,5-Trichlorobenzene	17.25	180	13362	5.51	ug/L	99
126) 1,2,4-trichlorobenzene	17.87	180	9661	4.99	ug/L	93
127) hexachlorobutadiene	17.99	225	6927	5.55	ug/L	94
128) naphthalene	18.15	128	18174	4.90	ug/L	98
129) 1,2,3-trichlorobenzene	18.39	180	8801	5.04	ug/L	91
130) hexachloroethane	16.55	119	6133	5.46	ug/L	96
131) Benzyl chloride	16.02	91	14926	5.81	ug/L	98

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

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\
Data File : 3C112043.D
Acq On : 28 Jul 2014 1:57 pm
Operator : prashans
Sample : IC5053-5
Misc : MS70923,V3C5053,5.0,,,,,1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jul 29 12:34:11 2014
Quant Method : C:\MSDCHEM\1\METHODS\M3C5053.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Mon Jul 28 09:36:28 2014
Response via : Initial Calibration



M3C5053.M Tue Jul 29 17:03:43 2014 MS3C

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7.6.5



Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\
 Data File : 3C112044.D
 Acq On : 28 Jul 2014 2:25 pm
 Operator : prashans
 Sample : IC5053-10
 Misc : MS70923,V3C5053,5.0,,,,,1
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jul 29 12:34:30 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M3C5053.M
 Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
 QLast Update : Mon Jul 28 09:36:28 2014
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Tert Butyl Alcohol-d9	7.31	65	51882	500.00	ug/L	0.00
5) pentafluorobenzene	9.54	168	200062	50.00	ug/L	0.00
54) 1,4-difluorobenzene	10.45	114	236712	50.00	ug/L	0.00
83) chlorobenzene-d5	13.59	117	186799	50.00	ug/L	0.00
99) 1,4-dichlorobenzene-d4	15.88	152	88420	50.00	ug/L	0.00

System Monitoring Compounds

45) dibromofluoromethane (s)	9.59	113	13918	9.46	ug/L	0.00
Spiked Amount	50.000	Range	59 - 130	Recovery	=	18.92%#
46) 1,2-dichloroethane-d4 (s)	10.01	65	14649	9.45	ug/L	0.00
Spiked Amount	50.000	Range	65 - 123	Recovery	=	18.90%#
75) toluene-d8 (s)	12.09	98	53297	9.55	ug/L	0.00
Spiked Amount	50.000	Range	80 - 124	Recovery	=	19.10%#
101) 4-bromofluorobenzene (s)	14.73	95	18437	9.44	ug/L	0.00
Spiked Amount	50.000	Range	71 - 132	Recovery	=	18.88%#

Target Compounds

						Qvalue
2) 1,4-dioxane	11.17	88	3355	253.30	ug/L	# 99
3) tertiary butyl alcohol	7.43	59	7422	47.83	ug/L	93
6) chlorodifluoromethane	3.98	51	17805	10.07	ug/L	98
7) dichlorodifluoromethane	3.97	85	21754	11.30	ug/L	93
8) chloromethane	4.29	50	22581	9.37	ug/L	98
9) vinyl chloride	4.54	62	21327	10.04	ug/L	97
10) bromomethane	5.20	94	13357	9.70	ug/L	97
11) chloroethane	5.37	64	11196	10.05	ug/L	96
12) 1,3-butadiene	4.61	54	37753	9.77	ug/L	99
15) trichlorofluoromethane	5.82	101	24475	10.62	ug/L	99
16) ethyl ether	6.22	74	8190	9.28	ug/L	97
17) acrolein	6.47	56	23073	92.05	ug/L	97
18) 1,1-dichloroethene	6.65	61	22388	10.16	ug/L	95
19) acetone	6.69	58	1664	13.12	ug/L	98
20) allyl chloride	7.17	76	8397	10.29	ug/L	98
21) acetonitrile	7.14	40	10150	94.16	ug/L	# 82
22) iodomethane	6.92	142	25471	9.90	ug/L	98
23) iso-butyl alcohol	9.83	41	4551	98.05	ug/L	91
24) carbon disulfide	7.05	76	51352	10.26	ug/L	99
25) methylene chloride	7.36	84	16637	10.06	ug/L	95
26) methyl acetate	7.16	74	1960	10.19	ug/L	97
27) methyl tert butyl ether	7.68	73	42632	9.28	ug/L	96
28) trans-1,2-dichloroethene	7.73	61	21687	9.59	ug/L	95
29) di-isopropyl ether	8.27	45	50390	9.25	ug/L	# 75
30) ethyl tert-butyl ether	8.74	59	49246	9.27	ug/L	95
31) 2-butanone	9.00	72	1620	11.02	ug/L	79
32) 1,1-dichloroethane	8.29	63	27958	9.72	ug/L	98
33) chloroprene	8.40	53	21740	9.92	ug/L	96
34) acrylonitrile	7.68	53	20557	48.34	ug/L	98
35) vinyl acetate	8.29	86	2108	8.55	ug/L	30
36) ethyl acetate	9.01	45	1688	10.47	ug/L	# 1
37) 2,2-dichloropropane	9.03	77	24648	9.97	ug/L	99
38) cis-1,2-dichloroethene	9.03	61	26142	9.48	ug/L	97

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\
 Data File : 3C112044.D
 Acq On : 28 Jul 2014 2:25 pm
 Operator : prashans
 Sample : IC5053-10
 Misc : MS70923,V3C5053,5.0,,,1
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jul 29 12:34:30 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M3C5053.M
 Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
 QLast Update : Mon Jul 28 09:36:28 2014
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) propionitrile	9.08	54	15709	97.01	ug/L	78
40) Methyl Acrylate	9.10	85	1322	8.51	ug/L #	43
41) bromochloromethane	9.33	128	7384	9.08	ug/L	93
42) tetrahydrofuran	9.38	72	1613	9.68	ug/L	99
43) chloroform	9.39	83	26556	9.44	ug/L	100
44) tert-Butyl Formate	9.43	59	10007	9.45	ug/L #	99
47) freon 113	6.61	151	12111	10.57	ug/L	89
48) methacrylonitrile	9.27	41	6432	9.13	ug/L	93
49) 1,1,1-trichloroethane	9.65	97	24448	10.06	ug/L	97
50) Cyclohexane	9.72	84	26410	10.83	ug/L	94
52) 2,2,4-trimethylpentane	10.09	57	54638	10.31	ug/L	100
53) tert-amyl methyl ether	10.11	73	45413	9.44	ug/L	96
55) epichlorohydrin	11.71	57	5601	48.29	ug/L	94
56) n-butyl alcohol	10.58	56	18079	441.59	ug/L	98
57) carbon tetrachloride	9.85	117	22092	10.60	ug/L	97
58) 1,1-dichloropropene	9.83	75	21209	10.12	ug/L	97
59) hexane	8.03	57	23426	11.64	ug/L	98
60) benzene	10.09	78	63183	9.50	ug/L	96
61) heptane	10.25	57	12367	10.38	ug/L	98
62) isopropyl acetate	10.01	87	2660	9.25	ug/L	98
63) 1,2-dichloroethane	10.10	62	17399	9.45	ug/L	98
64) trichloroethene	10.80	95	15481	9.85	ug/L	99
67) 2-nitropropane	11.57	41	4089	9.26	ug/L	89
68) 2-chloroethyl vinyl ether	11.58	63	32348	47.35	ug/L	97
69) methyl methacrylate	11.06	100	3124	9.09	ug/L #	92
70) 1,2-dichloropropane	11.06	63	15654	9.53	ug/L	99
71) methylcyclohexane	11.02	83	28583	10.77	ug/L	98
72) dibromomethane	11.22	93	7862	9.48	ug/L	99
73) bromodichloromethane	11.35	83	19350	9.34	ug/L	100
74) cis-1,3-dichloropropene	11.80	75	24494	9.49	ug/L	97
76) 4-methyl-2-pentanone	11.90	58	4516	9.59	ug/L	97
77) toluene	12.16	91	65418	9.58	ug/L	99
78) 3-methyl-1-butanol	11.91	70	6760	173.44	ug/L	98
79) trans-1,3-dichloropropene	12.36	75	20506	8.99	ug/L	88
80) ethyl methacrylate	12.35	69	15192	8.82	ug/L	99
81) 1,1,2-trichloroethane	12.57	97	10975	8.84	ug/L	95
82) 2-hexanone	12.74	58	4164	9.93	ug/L	98
84) tetrachloroethene	12.74	166	17649	10.17	ug/L	98
85) 1,3-dichloropropane	12.75	76	20008	9.24	ug/L	95
86) butyl acetate	12.81	56	7643	9.73	ug/L	99
87) dibromochloromethane	13.01	129	13969	9.16	ug/L	96
88) 1,2-dibromoethane	13.16	107	10900	9.33	ug/L	99
89) 3,3-Dimethyl-1-Butanol	12.91	57	12300	89.95	ug/L	96
90) chlorobenzene	13.62	112	40690	9.26	ug/L	98
91) 1,1,1,2-tetrachloroethane	13.67	131	15047	9.17	ug/L	95
92) ethylbenzene	13.67	91	70793	9.44	ug/L	99
93) m,p-xylene	13.77	106	54524	18.98	ug/L	100
94) o-xylene	14.19	91	56816	9.30	ug/L	98
95) styrene	14.20	104	42116	9.10	ug/L	99
98) bromoform	14.46	173	8874	9.68	ug/L	100

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\
Data File : 3C112044.D
Acq On : 28 Jul 2014 2:25 pm
Operator : prashans
Sample : IC5053-10
Misc : MS70923,V3C5053,5.0,,,,1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jul 29 12:34:30 2014
Quant Method : C:\MSDCHEM\1\METHODS\M3C5053.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Mon Jul 28 09:36:28 2014
Response via : Initial Calibration

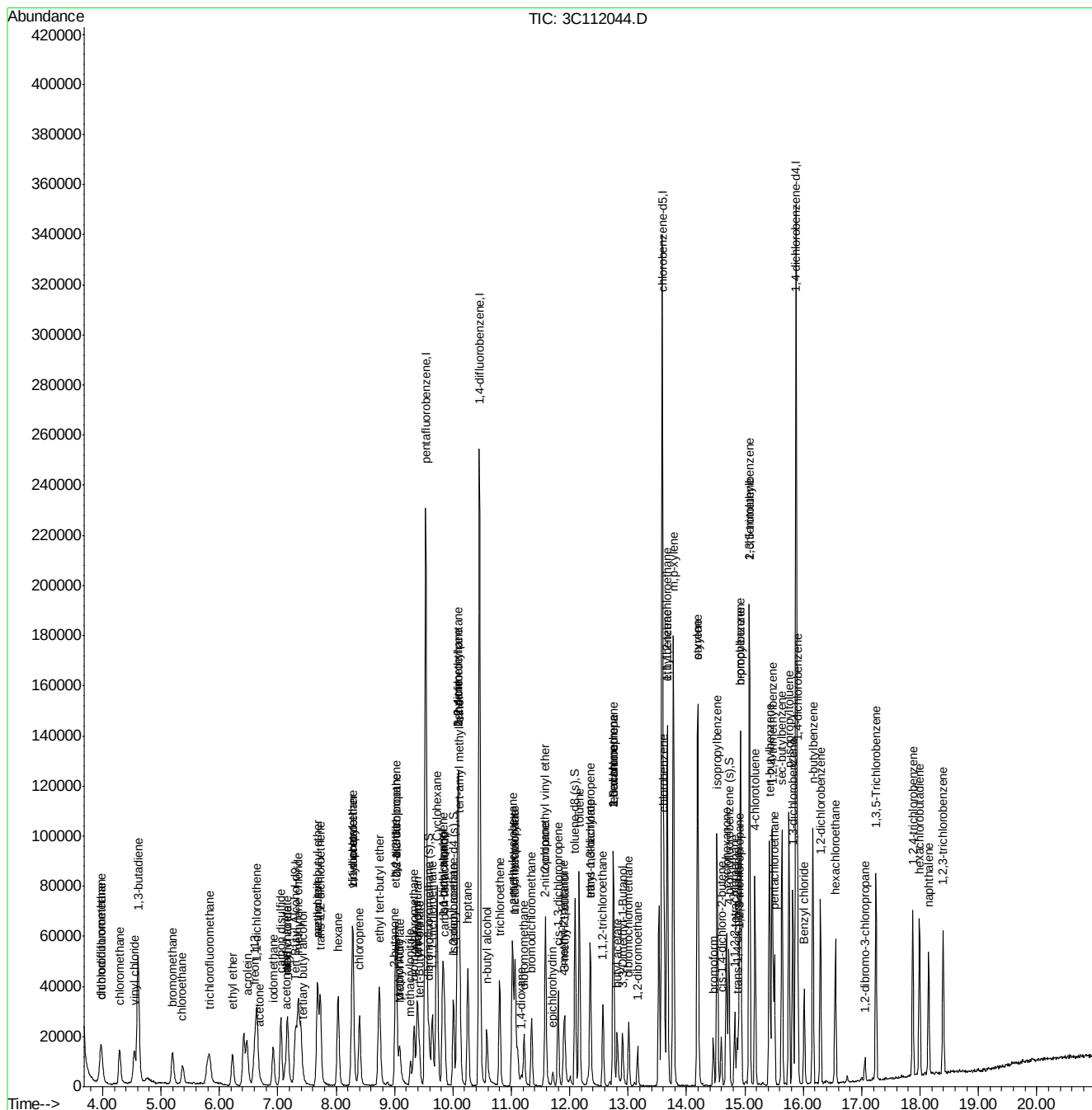
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
100) isopropylbenzene	14.52	105	70382	10.02	ug/L	96
102) bromobenzene	14.92	156	16562	9.63	ug/L	97
103) cis-1,4-dichloro-2-butene	14.60	88	4643	9.38	ug/L	96
104) cyclohexanone	14.68	55	26983	125.33	ug/L	97
105) 1,1,2,2-tetrachloroethane	14.83	83	14638	9.77	ug/L	97
106) trans-1,4-dichloro-2-buten	14.87	53	3768	9.81	ug/L	90
107) 1,2,3-trichloropropane	14.90	110	3906	9.43	ug/L	89
108) n-propylbenzene	14.93	91	78137	10.07	ug/L	98
110) 2-chlorotoluene	15.08	126	16368	9.66	ug/L	88
111) 4-chlorotoluene	15.17	126	16466	9.73	ug/L	96
112) 1,3,5-trimethylbenzene	15.08	105	58404	9.87	ug/L	97
113) tert-butylbenzene	15.42	119	51139	9.92	ug/L	99
114) pentachloroethane	15.51	167	10712	9.52	ug/L	94
115) 1,2,4-trimethylbenzene	15.47	105	56128	9.80	ug/L	100
116) sec-butylbenzene	15.64	105	74658	9.87	ug/L	100
117) 1,3-dichlorobenzene	15.82	146	32259	9.54	ug/L	99
118) p-isopropyltoluene	15.75	119	63408	9.48	ug/L	99
119) 1,4-dichlorobenzene	15.90	146	32318	9.66	ug/L	99
120) 1,2-dichlorobenzene	16.29	146	30134	9.35	ug/L	97
122) n-butylbenzene	16.16	92	30681	9.69	ug/L	98
124) 1,2-dibromo-3-chloropropan	17.06	157	2908	9.88	ug/L	96
125) 1,3,5-Trichlorobenzene	17.25	180	26839	9.89	ug/L	98
126) 1,2,4-trichlorobenzene	17.87	180	20719	9.57	ug/L	98
127) hexachlorobutadiene	17.99	225	14238	10.20	ug/L	98
128) naphthalene	18.15	128	38557	9.28	ug/L	96
129) 1,2,3-trichlorobenzene	18.39	180	18574	9.51	ug/L	98
130) hexachloroethane	16.55	119	11950	9.51	ug/L	98
131) Benzyl chloride	16.02	91	27138	9.45	ug/L	99

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

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\
Data File : 3C112044.D
Acq On : 28 Jul 2014 2:25 pm
Operator : prashans
Sample : IC5053-10
Misc : MS70923,V3C5053,5.0,,,,,1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jul 29 12:34:30 2014
Quant Method : C:\MSDCHEM\1\METHODS\M3C5053.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Mon Jul 28 09:36:28 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\
 Data File : 3C112045.D
 Acq On : 28 Jul 2014 2:52 pm
 Operator : prashans
 Sample : IC5053-20
 Misc : MS70923,V3C5053,5.0,,,,,1
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jul 29 12:34:53 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M3C5053.M
 Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
 QLast Update : Mon Jul 28 09:36:28 2014
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Tert Butyl Alcohol-d9	7.30	65	52609	500.00	ug/L	-0.01
5) pentafluorobenzene	9.53	168	198168	50.00	ug/L	0.00
54) 1,4-difluorobenzene	10.45	114	235258	50.00	ug/L	0.00
83) chlorobenzene-d5	13.59	117	186143	50.00	ug/L	0.00
99) 1,4-dichlorobenzene-d4	15.88	152	89297	50.00	ug/L	0.00

System Monitoring Compounds

45) dibromofluoromethane (s)	9.58	113	70406	48.31	ug/L	0.00
Spiked Amount	50.000	Range	59 - 130	Recovery	=	96.62%
46) 1,2-dichloroethane-d4 (s)	10.01	65	71177	46.38	ug/L	0.00
Spiked Amount	50.000	Range	65 - 123	Recovery	=	92.76%
75) toluene-d8 (s)	12.09	98	280829	50.61	ug/L	0.00
Spiked Amount	50.000	Range	80 - 124	Recovery	=	101.22%
101) 4-bromofluorobenzene (s)	14.73	95	96288	48.83	ug/L	0.00
Spiked Amount	50.000	Range	71 - 132	Recovery	=	97.66%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) 1,4-dioxane	11.17	88	6808	506.90	ug/L	# 98
3) tertiary butyl alcohol	7.42	59	14613	92.88	ug/L	92
6) chlorodifluoromethane	3.97	51	37395	21.34	ug/L	98
7) dichlorodifluoromethane	3.96	85	45953	24.11	ug/L	95
8) chloromethane	4.29	50	47763	20.00	ug/L	99
9) vinyl chloride	4.54	62	46682	22.19	ug/L	99
10) bromomethane	5.19	94	28255	20.72	ug/L	99
11) chloroethane	5.36	64	23684	21.47	ug/L	97
12) 1,3-butadiene	4.60	54	79588	20.80	ug/L	99
15) trichlorofluoromethane	5.82	101	51730	22.67	ug/L	100
16) ethyl ether	6.22	74	16898	19.34	ug/L	99
17) acrolein	6.46	56	46931	189.01	ug/L	100
18) 1,1-dichloroethene	6.64	61	48093	22.04	ug/L	98
19) acetone	6.69	58	3742	29.80	ug/L	90
20) allyl chloride	7.16	76	17254	21.34	ug/L	94
21) acetonitrile	7.12	40	21277	199.26	ug/L	96
22) iodomethane	6.92	142	52746	20.70	ug/L	99
23) iso-butyl alcohol	9.83	41	8232	179.05	ug/L	90
24) carbon disulfide	7.05	76	107351	21.66	ug/L	98
25) methylene chloride	7.35	84	33512	20.46	ug/L	100
26) methyl acetate	7.15	74	3613	18.96	ug/L	# 77
27) methyl tert butyl ether	7.68	73	86164	18.94	ug/L	99
28) trans-1,2-dichloroethene	7.73	61	46100	20.57	ug/L	97
29) di-isopropyl ether	8.27	45	102047	18.91	ug/L	87
30) ethyl tert-butyl ether	8.74	59	99831	18.97	ug/L	99
31) 2-butanone	8.99	72	3715	25.51	ug/L	54
32) 1,1-dichloroethane	8.29	63	57525	20.20	ug/L	98
33) chloroprene	8.40	53	46499	21.42	ug/L	96
34) acrylonitrile	7.67	53	41714	99.03	ug/L	98
35) vinyl acetate	8.28	86	4491	18.40	ug/L	80
36) ethyl acetate	9.01	45	3661	22.93	ug/L	47
37) 2,2-dichloropropane	9.03	77	52967	21.62	ug/L	97
38) cis-1,2-dichloroethene	9.03	61	54942	20.12	ug/L	98

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\
 Data File : 3C112045.D
 Acq On : 28 Jul 2014 2:52 pm
 Operator : prashans
 Sample : IC5053-20
 Misc : MS70923,V3C5053,5.0,,,,,1
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jul 29 12:34:53 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M3C5053.M
 Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
 QLast Update : Mon Jul 28 09:36:28 2014
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) propionitrile	9.08	54	31813	198.34	ug/L	87
40) Methyl Acrylate	9.10	85	3087	18.08	ug/L	73
41) bromochloromethane	9.33	128	15550	19.31	ug/L	99
42) tetrahydrofuran	9.38	72	3383	20.50	ug/L	97
43) chloroform	9.39	83	54267	19.48	ug/L	97
44) tert-Butyl Formate	9.42	59	20326	19.38	ug/L #	99
47) freon 113	6.61	151	25288	22.27	ug/L	93
48) methacrylonitrile	9.27	41	13572	19.45	ug/L	94
49) 1,1,1-trichloroethane	9.64	97	52061	21.62	ug/L	100
50) Cyclohexane	9.72	84	55921	23.14	ug/L	94
52) 2,2,4-trimethylpentane	10.08	57	115962	22.09	ug/L	99
53) tert-amyl methyl ether	10.12	73	90824	19.05	ug/L	99
55) epichlorohydrin	11.70	57	11626	100.86	ug/L	97
56) n-butyl alcohol	10.57	56	38028	934.60	ug/L	98
57) carbon tetrachloride	9.85	117	46254	22.34	ug/L	96
58) 1,1-dichloropropene	9.82	75	45079	21.64	ug/L	95
59) hexane	8.03	57	47460	23.73	ug/L	99
60) benzene	10.08	78	131763	19.94	ug/L	98
61) heptane	10.25	57	27362	23.11	ug/L	99
62) isopropyl acetate	10.00	87	5541	19.38	ug/L #	90
63) 1,2-dichloroethane	10.09	62	35224	19.26	ug/L	98
64) trichloroethene	10.80	95	33128	21.21	ug/L	97
67) 2-nitropropane	11.57	41	7949	18.11	ug/L	93
68) 2-chloroethyl vinyl ether	11.58	63	63940	94.17	ug/L	99
69) methyl methacrylate	11.06	100	6547	19.16	ug/L	95
70) 1,2-dichloropropane	11.06	63	31868	19.53	ug/L	97
71) methylcyclohexane	11.02	83	59145	22.41	ug/L	99
72) dibromomethane	11.22	93	16135	19.58	ug/L	93
73) bromodichloromethane	11.35	83	39861	19.36	ug/L	97
74) cis-1,3-dichloropropene	11.80	75	50325	19.63	ug/L	97
76) 4-methyl-2-pentanone	11.89	58	9259	19.79	ug/L	95
77) toluene	12.16	91	136244	20.07	ug/L	98
78) 3-methyl-1-butanol	11.91	70	14169	365.78	ug/L	97
79) trans-1,3-dichloropropene	12.36	75	42512	18.76	ug/L	94
80) ethyl methacrylate	12.35	69	32164	18.79	ug/L	99
81) 1,1,2-trichloroethane	12.57	97	22770	18.45	ug/L	99
82) 2-hexanone	12.74	58	9005	21.61	ug/L	99
84) tetrachloroethene	12.74	166	36932	21.36	ug/L	97
85) 1,3-dichloropropane	12.75	76	40117	18.58	ug/L	97
86) butyl acetate	12.81	56	15726	20.09	ug/L	94
87) dibromochloromethane	13.01	129	28914	19.03	ug/L	95
88) 1,2-dibromoethane	13.16	107	22551	19.36	ug/L	96
89) 3,3-Dimethyl-1-Butanol	12.91	57	24250	177.97	ug/L	99
90) chlorobenzene	13.62	112	85728	19.57	ug/L	99
91) 1,1,1,2-tetrachloroethane	13.67	131	31511	19.28	ug/L	100
92) ethylbenzene	13.67	91	151863	20.32	ug/L	98
93) m,p-xylene	13.77	106	115636	40.40	ug/L	99
94) o-xylene	14.19	91	120631	19.81	ug/L	99
95) styrene	14.20	104	89595	19.42	ug/L	99
98) bromoform	14.46	173	18295	20.04	ug/L	98

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\
 Data File : 3C112045.D
 Acq On : 28 Jul 2014 2:52 pm
 Operator : prashans
 Sample : IC5053-20
 Misc : MS70923,V3C5053,5.0,,,1
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jul 29 12:34:53 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M3C5053.M
 Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
 QLast Update : Mon Jul 28 09:36:28 2014
 Response via : Initial Calibration

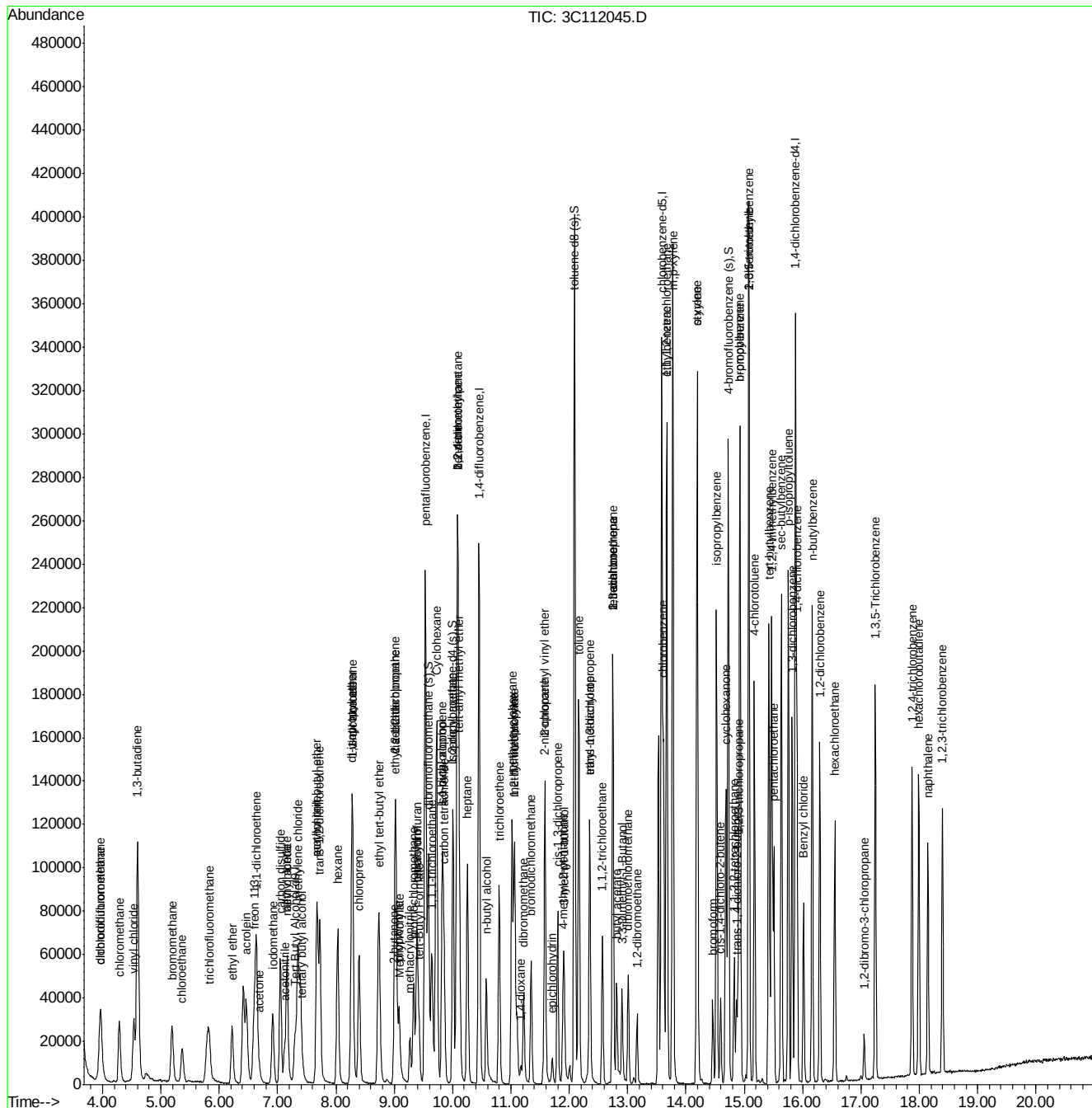
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
100) isopropylbenzene	14.52	105	151482	21.36	ug/L	99
102) bromobenzene	14.92	156	35105	20.22	ug/L	96
103) cis-1,4-dichloro-2-butene	14.60	88	9460	18.93	ug/L	97
104) cyclohexanone	14.68	55	58133	267.37	ug/L	98
105) 1,1,2,2-tetrachloroethane	14.83	83	29367	19.42	ug/L	95
106) trans-1,4-dichloro-2-buten	14.87	53	7771	20.03	ug/L	93
107) 1,2,3-trichloropropane	14.90	110	8209	19.61	ug/L	93
108) n-propylbenzene	14.93	91	166765	21.29	ug/L	99
110) 2-chlorotoluene	15.08	126	35348	20.65	ug/L	94
111) 4-chlorotoluene	15.17	126	35141	20.56	ug/L	92
112) 1,3,5-trimethylbenzene	15.08	105	123832	20.73	ug/L	99
113) tert-butylbenzene	15.42	119	110309	21.20	ug/L	98
114) pentachloroethane	15.51	167	23200	20.41	ug/L	96
115) 1,2,4-trimethylbenzene	15.47	105	119968	20.73	ug/L	100
116) sec-butylbenzene	15.64	105	163783	21.44	ug/L	99
117) 1,3-dichlorobenzene	15.82	146	68186	20.65	ug/L	99
118) p-isopropyltoluene	15.75	119	139262	20.62	ug/L	99
119) 1,4-dichlorobenzene	15.90	146	66746	20.45	ug/L	98
120) 1,2-dichlorobenzene	16.29	146	64007	20.46	ug/L	96
122) n-butylbenzene	16.16	92	66718	20.87	ug/L	95
124) 1,2-dibromo-3-chloropropan	17.05	157	6046	20.33	ug/L	92
125) 1,3,5-Trichlorobenzene	17.25	180	58383	21.30	ug/L	98
126) 1,2,4-trichlorobenzene	17.87	180	45200	20.66	ug/L	99
127) hexachlorobutadiene	17.99	225	30602	21.72	ug/L	100
128) naphthalene	18.15	128	84224	20.08	ug/L	99
129) 1,2,3-trichlorobenzene	18.40	180	40903	20.73	ug/L	97
130) hexachloroethane	16.55	119	25920	20.42	ug/L	100
131) Benzyl chloride	16.02	91	59366	20.46	ug/L	100

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

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\
Data File : 3C112045.D
Acq On : 28 Jul 2014 2:52 pm
Operator : prashans
Sample : IC5053-20
Misc : MS70923,V3C5053,5.0,,,,,1
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jul 29 12:34:53 2014
Quant Method : C:\MSDCHEM\1\METHODS\M3C5053.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Mon Jul 28 09:36:28 2014
Response via : Initial Calibration



M3C5053.M Tue Jul 29 17:03:45 2014 MS3C

Page: 4

7.6.7

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\
 Data File : 3C112046.D
 Acq On : 28 Jul 2014 3:20 pm
 Operator : prashans
 Sample : ICC5053-50
 Misc : MS70923,V3C5053,5.0,,,,,1
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jul 29 12:35:12 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M3C5053.M
 Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
 QLast Update : Mon Jul 28 09:36:28 2014
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Tert Butyl Alcohol-d9	7.30	65	52420	500.00	ug/L	-0.01
5) pentafluorobenzene	9.54	168	188536	50.00	ug/L	0.00
54) 1,4-difluorobenzene	10.45	114	223747	50.00	ug/L	0.00
83) chlorobenzene-d5	13.59	117	178410	50.00	ug/L	0.00
99) 1,4-dichlorobenzene-d4	15.88	152	88636	50.00	ug/L	0.00

System Monitoring Compounds

45) dibromofluoromethane (s)	9.58	113	71358	51.46	ug/L	0.00
Spiked Amount	50.000	Range	59 - 130	Recovery	=	102.92%
46) 1,2-dichloroethane-d4 (s)	10.00	65	74525	51.04	ug/L	0.00
Spiked Amount	50.000	Range	65 - 123	Recovery	=	102.08%
75) toluene-d8 (s)	12.09	98	281650	53.37	ug/L	0.00
Spiked Amount	50.000	Range	80 - 124	Recovery	=	106.74%
101) 4-bromofluorobenzene (s)	14.73	95	99949	51.07	ug/L	0.00
Spiked Amount	50.000	Range	71 - 132	Recovery	=	102.14%

Target Compounds

						Qvalue
2) 1,4-dioxane	11.17	88	18888	1411.41	ug/L	# 98
3) tertiary butyl alcohol	7.43	59	40640	259.23	ug/L	93
6) chlorodifluoromethane	3.98	51	89063	53.43	ug/L	98
7) dichlorodifluoromethane	3.97	85	112634	62.10	ug/L	96
8) chloromethane	4.30	50	122553	53.93	ug/L	97
9) vinyl chloride	4.55	62	115745	57.84	ug/L	99
10) bromomethane	5.20	94	71523	55.12	ug/L	97
11) chloroethane	5.36	64	58500	55.73	ug/L	97
12) 1,3-butadiene	4.61	54	194473	53.43	ug/L	99
15) trichlorofluoromethane	5.82	101	128444	59.16	ug/L	96
16) ethyl ether	6.23	74	44793	53.87	ug/L	97
17) acrolein	6.47	56	125563	531.54	ug/L	99
18) 1,1-dichloroethene	6.65	61	117313	56.51	ug/L	96
19) acetone	6.69	58	8904	74.52	ug/L	92
20) allyl chloride	7.17	76	43828	56.97	ug/L	87
21) acetonitrile	7.12	40	53103	522.72	ug/L	97
22) iodomethane	6.92	142	134665	55.55	ug/L	100
23) iso-butyl alcohol	9.82	41	22096	505.14	ug/L	91
24) carbon disulfide	7.05	76	266042	56.42	ug/L	99
25) methylene chloride	7.35	84	84900	54.47	ug/L	99
26) methyl acetate	7.14	74	10641	58.68	ug/L	100
27) methyl tert butyl ether	7.68	73	232901	53.80	ug/L	99
28) trans-1,2-dichloroethene	7.73	61	114942	53.91	ug/L	97
29) di-isopropyl ether	8.27	45	268620	52.32	ug/L	99
30) ethyl tert-butyl ether	8.74	59	261903	52.32	ug/L	99
31) 2-butanone	8.99	72	9420	67.99	ug/L	69
32) 1,1-dichloroethane	8.29	63	145255	53.61	ug/L	99
33) chloroprene	8.40	53	115064	55.71	ug/L	99
34) acrylonitrile	7.67	53	112740	281.31	ug/L	97
35) vinyl acetate	8.27	86	13480	58.04	ug/L	94
36) ethyl acetate	9.00	45	8590	56.56	ug/L	40
37) 2,2-dichloropropane	9.03	77	125950	54.03	ug/L	98
38) cis-1,2-dichloroethene	9.02	61	139271	53.61	ug/L	98

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\
 Data File : 3C112046.D
 Acq On : 28 Jul 2014 3:20 pm
 Operator : prashans
 Sample : ICC5053-50
 Misc : MS70923,V3C5053,5.0,,,1
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jul 29 12:35:12 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M3C5053.M
 Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
 QLast Update : Mon Jul 28 09:36:28 2014
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) propionitrile	9.08	54	89206	584.58	ug/L	96
40) Methyl Acrylate	9.09	85	9379	54.54	ug/L	90
41) bromochloromethane	9.33	128	40942	53.45	ug/L	97
42) tetrahydrofuran	9.38	72	9028	57.49	ug/L	96
43) chloroform	9.39	83	140165	52.89	ug/L	99
44) tert-Butyl Formate	9.42	59	53597	53.71	ug/L #	99
47) freon 113	6.61	151	60742	56.23	ug/L	95
48) methacrylonitrile	9.27	41	36559	55.08	ug/L	94
49) 1,1,1-trichloroethane	9.65	97	128153	55.94	ug/L	99
50) Cyclohexane	9.73	84	136160	59.22	ug/L	95
52) 2,2,4-trimethylpentane	10.09	57	286335	57.33	ug/L	99
53) tert-amyl methyl ether	10.12	73	243619	53.71	ug/L	99
55) epichlorohydrin	11.70	57	31628	288.49	ug/L	98
56) n-butyl alcohol	10.57	56	107539	2778.91	ug/L	98
57) carbon tetrachloride	9.85	117	114753	58.27	ug/L	98
58) 1,1-dichloropropene	9.83	75	111107	56.08	ug/L	96
59) hexane	8.03	57	113201	59.50	ug/L	99
60) benzene	10.09	78	336928	53.60	ug/L	99
61) heptane	10.25	57	65406	58.09	ug/L	99
62) isopropyl acetate	10.00	87	15308	56.29	ug/L	96
63) 1,2-dichloroethane	10.10	62	95099	54.66	ug/L	99
64) trichloroethene	10.80	95	82329	55.42	ug/L	98
67) 2-nitropropane	11.56	41	22161	53.07	ug/L	94
68) 2-chloroethyl vinyl ether	11.58	63	175424	271.64	ug/L	99
69) methyl methacrylate	11.06	100	19248	59.24	ug/L #	87
70) 1,2-dichloropropane	11.06	63	83366	53.72	ug/L	99
71) methylcyclohexane	11.02	83	145652	58.04	ug/L	98
72) dibromomethane	11.22	93	42678	54.46	ug/L	99
73) bromodichloromethane	11.35	83	105100	53.66	ug/L	99
74) cis-1,3-dichloropropene	11.80	75	133270	54.65	ug/L	98
76) 4-methyl-2-pentanone	11.89	58	25129	56.46	ug/L	98
77) toluene	12.16	91	346714	53.70	ug/L	100
78) 3-methyl-1-butanol	11.91	70	40211	1091.49	ug/L	95
79) trans-1,3-dichloropropene	12.36	75	115893	53.78	ug/L	99
80) ethyl methacrylate	12.35	69	90774	55.75	ug/L	99
81) 1,1,2-trichloroethane	12.57	97	62083	52.88	ug/L	99
82) 2-hexanone	12.73	58	23990	60.53	ug/L	95
84) tetrachloroethene	12.74	166	93998	56.71	ug/L	99
85) 1,3-dichloropropane	12.75	76	108268	52.33	ug/L	99
86) butyl acetate	12.81	56	42313	56.41	ug/L	98
87) dibromochloromethane	13.01	129	78324	53.79	ug/L	99
88) 1,2-dibromoethane	13.16	107	61049	54.69	ug/L	97
89) 3,3-Dimethyl-1-Butanol	12.90	57	70830	542.34	ug/L	98
90) chlorobenzene	13.62	112	218752	52.10	ug/L	99
91) 1,1,1,2-tetrachloroethane	13.67	131	83635	53.39	ug/L	99
92) ethylbenzene	13.67	91	383216	53.51	ug/L	100
93) m,p-xylene	13.77	106	295006	107.55	ug/L	100
94) o-xylene	14.19	91	307739	52.73	ug/L	100
95) styrene	14.20	104	239639	54.19	ug/L	99
98) bromoform	14.46	173	50916	58.18	ug/L	99

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\
 Data File : 3C112046.D
 Acq On : 28 Jul 2014 3:20 pm
 Operator : prashans
 Sample : ICC5053-50
 Misc : MS70923,V3C5053,5.0,,,1
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jul 29 12:35:12 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M3C5053.M
 Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
 QLast Update : Mon Jul 28 09:36:28 2014
 Response via : Initial Calibration

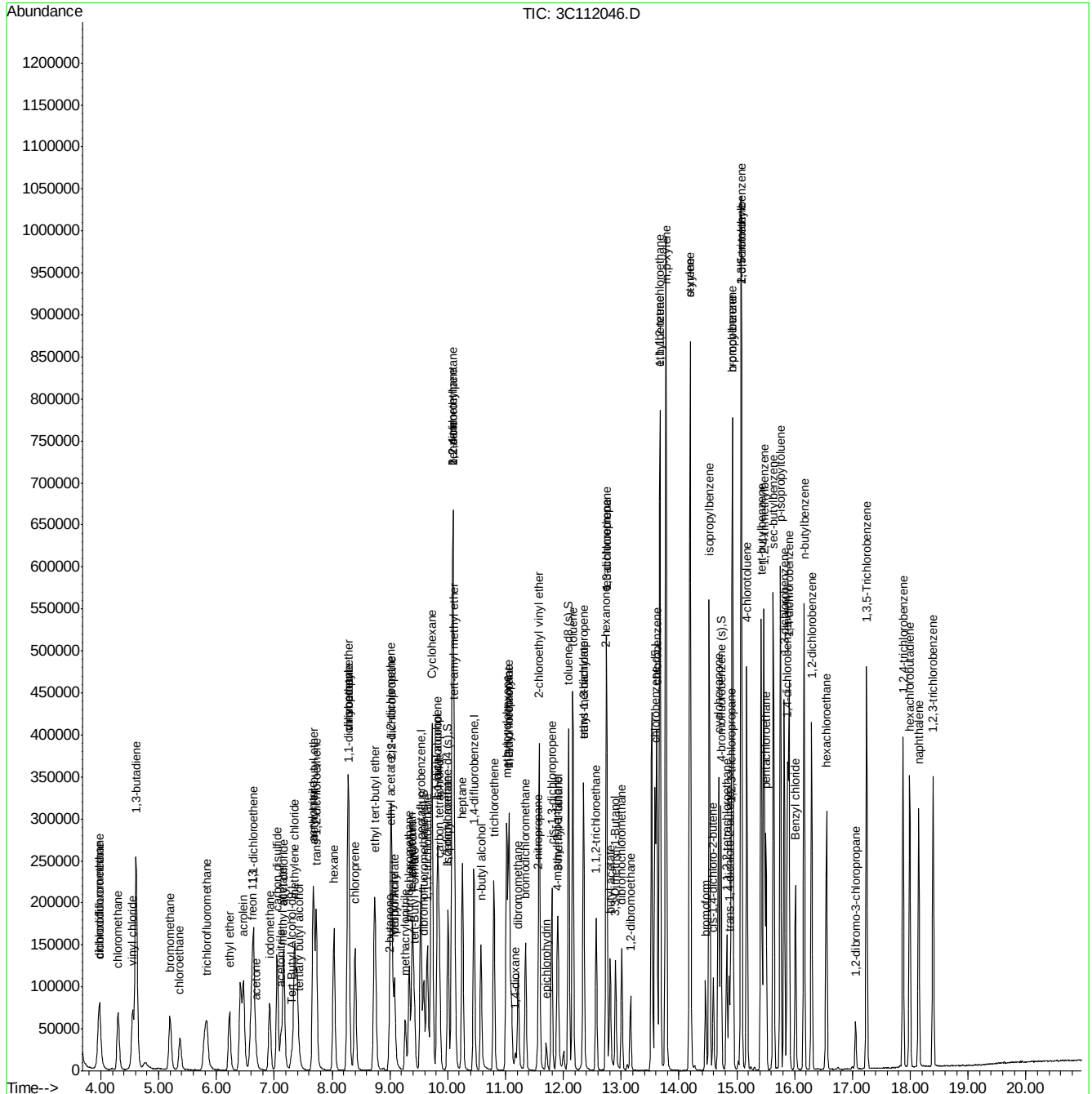
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
100) isopropylbenzene	14.52	105	382558	54.35	ug/L	99
102) bromobenzene	14.92	156	93466	54.23	ug/L	96
103) cis-1,4-dichloro-2-butene	14.59	88	26554	53.53	ug/L	97
104) cyclohexanone	14.68	55	147878	685.20	ug/L	97
105) 1,1,2,2-tetrachloroethane	14.83	83	81119	54.03	ug/L	99
106) trans-1,4-dichloro-2-buten	14.86	53	21280	55.25	ug/L	97
107) 1,2,3-trichloropropane	14.90	110	22131	53.27	ug/L	99
108) n-propylbenzene	14.93	91	422579	54.34	ug/L	100
110) 2-chlorotoluene	15.08	126	90888	53.50	ug/L	98
111) 4-chlorotoluene	15.17	126	91405	53.89	ug/L	100
112) 1,3,5-trimethylbenzene	15.08	105	317968	53.63	ug/L	100
113) tert-butylbenzene	15.42	119	282086	54.61	ug/L	100
114) pentachloroethane	15.51	167	61334	54.36	ug/L	100
115) 1,2,4-trimethylbenzene	15.47	105	308086	53.64	ug/L	100
116) sec-butylbenzene	15.63	105	417025	55.00	ug/L	99
117) 1,3-dichlorobenzene	15.82	146	179234	55.74	ug/L	100
118) p-isopropyltoluene	15.75	119	353117	52.68	ug/L	99
119) 1,4-dichlorobenzene	15.90	146	178673	56.28	ug/L	99
120) 1,2-dichlorobenzene	16.29	146	169185	55.70	ug/L	98
122) n-butylbenzene	16.16	92	172800	54.44	ug/L	100
124) 1,2-dibromo-3-chloropropan	17.06	157	17183	58.22	ug/L	97
125) 1,3,5-Trichlorobenzene	17.25	180	153625	56.46	ug/L	98
126) 1,2,4-trichlorobenzene	17.87	180	126069	58.07	ug/L	98
127) hexachlorobutadiene	17.99	225	78362	56.03	ug/L	100
128) naphthalene	18.15	128	241905	58.10	ug/L	99
129) 1,2,3-trichlorobenzene	18.40	180	113637	58.03	ug/L	99
130) hexachloroethane	16.55	119	67205	53.35	ug/L	99
131) Benzyl chloride	16.01	91	156187	54.23	ug/L	100

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

(QT Reviewed)

```
Data Path : C:\MSDCHEM\1\DATA\  
Data File : 3C112046.D  
Acq On    : 28 Jul 2014    3:20 pm  
Operator  : prashans  
Sample    : ICC5053-50  
Misc      : MS70923,V3C5053,5.0,,,,,1  
ALS Vial  : 9    Sample Multiplier: 1
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Quant Time: Jul 29 12:35:12 2014
Quant Method : C:\MSDCHEM\1\METHODS\M3C5053.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Mon Jul 28 09:36:28 2014
Response via : Initial Calibration



7.6.8

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\
 Data File : 3C112047.D
 Acq On : 28 Jul 2014 3:48 pm
 Operator : prashans
 Sample : IC5053-100
 Misc : MS70923,V3C5053,5.0,,,,,1
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jul 29 12:35:44 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M3C5053.M
 Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
 QLast Update : Mon Jul 28 09:36:28 2014
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Tert Butyl Alcohol-d9	7.31	65	68523	500.00	ug/L	0.00
5) pentafluorobenzene	9.54	168	213678	50.00	ug/L	0.00
54) 1,4-difluorobenzene	10.45	114	254774	50.00	ug/L	0.00
83) chlorobenzene-d5	13.59	117	206190	50.00	ug/L	0.00
99) 1,4-dichlorobenzene-d4	15.88	152	102669	50.00	ug/L	0.00

System Monitoring Compounds

45) dibromofluoromethane (s)	9.58	113	147425	93.81	ug/L	0.00
Spiked Amount	50.000	Range	59 - 130	Recovery	=	187.62%#
46) 1,2-dichloroethane-d4 (s)	10.01	65	149378	90.27	ug/L	0.00
Spiked Amount	50.000	Range	65 - 123	Recovery	=	180.54%#
75) toluene-d8 (s)	12.09	98	567183	94.39	ug/L	0.00
Spiked Amount	50.000	Range	80 - 124	Recovery	=	188.78%#
101) 4-bromofluorobenzene (s)	14.73	95	208284	91.87	ug/L	0.00
Spiked Amount	50.000	Range	71 - 132	Recovery	=	183.74%#

Target Compounds

Qvalue

2) 1,4-dioxane	11.17	88	41123	2350.78	ug/L	#	99
3) tertiary butyl alcohol	7.42	59	93622	456.85	ug/L		98
6) chlorodifluoromethane	3.98	51	176590	93.47	ug/L		98
7) dichlorodifluoromethane	3.97	85	219547	106.81	ug/L		96
8) chloromethane	4.30	50	239710	93.08	ug/L		100
9) vinyl chloride	4.55	62	227234	100.19	ug/L		99
10) bromomethane	5.20	94	143344	97.48	ug/L		95
11) chloroethane	5.37	64	117934	99.13	ug/L		99
15) trichlorofluoromethane	5.83	101	252031	102.42	ug/L		98
16) ethyl ether	6.23	74	93585	99.31	ug/L		99
18) 1,1-dichloroethene	6.65	61	232558	98.85	ug/L		97
19) acetone	6.69	58	18116	133.78	ug/L		98
20) allyl chloride	7.17	76	85004	97.50	ug/L		81
21) acetonitrile	7.11	40	111042	964.44	ug/L		96
22) iodomethane	6.92	142	269406	98.06	ug/L		98
23) iso-butyl alcohol	9.82	41	51624	1041.33	ug/L		92
24) carbon disulfide	7.05	76	525919	98.42	ug/L		98
25) methylene chloride	7.35	84	168488	95.38	ug/L		99
26) methyl acetate	7.15	74	22614	110.03	ug/L		95
27) methyl tert butyl ether	7.68	73	473902	96.59	ug/L		99
28) trans-1,2-dichloroethene	7.73	61	227625	94.20	ug/L		99
29) di-isopropyl ether	8.27	45	552160	94.89	ug/L		97
30) ethyl tert-butyl ether	8.74	59	538708	94.95	ug/L		99
31) 2-butanone	8.98	72	20051	127.69	ug/L		68
32) 1,1-dichloroethane	8.29	63	288669	94.00	ug/L		98
33) chloroprene	8.40	53	233279	99.66	ug/L		99
34) acrylonitrile	7.67	53	236377	520.42	ug/L		97
35) vinyl acetate	8.27	86	29938	113.73	ug/L		83
36) ethyl acetate	9.00	45	18966	110.18	ug/L	#	28
37) 2,2-dichloropropane	9.03	77	247670	93.75	ug/L		99
38) cis-1,2-dichloroethene	9.02	61	278925	94.73	ug/L		99
39) propionitrile	9.07	54	187446	1083.84	ug/L		95
40) Methyl Acrylate	9.08	85	20917	105.91	ug/L		99

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\
 Data File : 3C112047.D
 Acq On : 28 Jul 2014 3:48 pm
 Operator : prashans
 Sample : IC5053-100
 Misc : MS70923,V3C5053,5.0,,,,,1
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jul 29 12:35:44 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M3C5053.M
 Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
 QLast Update : Mon Jul 28 09:36:28 2014
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) bromochloromethane	9.33	128	84203	96.98	ug/L	95
42) tetrahydrofuran	9.38	72	19385	108.93	ug/L	94
43) chloroform	9.39	83	279400	93.02	ug/L	99
44) tert-Butyl Formate	9.42	59	112710	99.66	ug/L #	99
47) freon 113	6.61	151	123906	101.21	ug/L	94
48) methacrylonitrile	9.27	41	77972	103.64	ug/L	94
49) 1,1,1-trichloroethane	9.65	97	250110	96.32	ug/L	98
50) Cyclohexane	9.73	84	265771	102.00	ug/L	95
52) 2,2,4-trimethylpentane	10.09	57	583855	103.14	ug/L	99
53) tert-amyl methyl ether	10.12	73	514708	100.13	ug/L	99
55) epichlorohydrin	11.70	57	69681	558.18	ug/L	99
56) n-butyl alcohol	10.57	56	248976	5650.25	ug/L	97
57) carbon tetrachloride	9.85	117	227631	101.52	ug/L	99
58) 1,1-dichloropropene	9.83	75	220447	97.72	ug/L	98
59) hexane	8.03	57	222749	102.82	ug/L	99
60) benzene	10.09	78	670708	93.71	ug/L	100
61) heptane	10.25	57	132253	103.15	ug/L	99
62) isopropyl acetate	10.00	87	33953	109.65	ug/L #	92
63) 1,2-dichloroethane	10.09	62	190110	95.97	ug/L	99
64) trichloroethene	10.80	95	163719	96.79	ug/L	99
67) 2-nitropropane	11.56	41	46664	98.15	ug/L	94
68) 2-chloroethyl vinyl ether	11.58	63	380433	517.35	ug/L	100
69) methyl methacrylate	11.06	100	41480	112.12	ug/L #	89
70) 1,2-dichloropropane	11.06	63	166900	94.44	ug/L	98
71) methylcyclohexane	11.02	83	295860	103.54	ug/L	99
72) dibromomethane	11.22	93	87268	97.80	ug/L	94
73) bromodichloromethane	11.35	83	215522	96.64	ug/L	99
74) cis-1,3-dichloropropene	11.80	75	267913	96.48	ug/L	98
76) 4-methyl-2-pentanone	11.89	58	55321	109.16	ug/L	97
77) toluene	12.16	91	690132	93.87	ug/L	99
78) 3-methyl-1-butanol	11.91	70	95203	2269.48	ug/L	91
79) trans-1,3-dichloropropene	12.36	75	236647	96.43	ug/L	99
80) ethyl methacrylate	12.35	69	194792	105.07	ug/L	99
81) 1,1,2-trichloroethane	12.57	97	127528	95.40	ug/L	99
82) 2-hexanone	12.73	58	53969	119.59	ug/L	96
84) tetrachloroethene	12.74	166	190464	99.43	ug/L	100
85) 1,3-dichloropropane	12.75	76	224787	94.00	ug/L	99
86) butyl acetate	12.81	56	91531	105.59	ug/L	94
87) dibromochloromethane	13.01	129	162931	96.82	ug/L	99
88) 1,2-dibromoethane	13.16	107	129403	100.30	ug/L	100
89) 3,3-Dimethyl-1-Butanol	12.90	57	165110	1093.91	ug/L	99
90) chlorobenzene	13.62	112	445720	91.85	ug/L	99
91) 1,1,1,2-tetrachloroethane	13.67	131	170879	94.39	ug/L	100
92) ethylbenzene	13.67	91	770731	93.12	ug/L	99
93) m,p-xylene	13.77	106	592199	186.80	ug/L	98
94) o-xylene	14.19	91	617491	91.54	ug/L	100
95) styrene	14.20	104	495849	97.01	ug/L	97
98) bromoform	14.46	173	109668	108.42	ug/L	99
100) isopropylbenzene	14.52	105	762125	93.47	ug/L	99
102) bromobenzene	14.92	156	191269	95.81	ug/L	97

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\
 Data File : 3C112047.D
 Acq On : 28 Jul 2014 3:48 pm
 Operator : prashans
 Sample : IC5053-100
 Misc : MS70923,V3C5053,5.0,,,1
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jul 29 12:35:44 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M3C5053.M
 Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
 QLast Update : Mon Jul 28 09:36:28 2014
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
104) cyclohexanone	14.68	55	323939	1295.82	ug/L	98
105) 1,1,2,2-tetrachloroethane	14.83	83	171049	98.36	ug/L	100
106) trans-1,4-dichloro-2-buten	14.87	53	43865	98.32	ug/L	93
107) 1,2,3-trichloropropane	14.90	110	46182	95.98	ug/L	100
108) n-propylbenzene	14.93	91	852007	94.59	ug/L	99
110) 2-chlorotoluene	15.08	126	183737	93.37	ug/L	99
111) 4-chlorotoluene	15.17	126	187671	95.52	ug/L	98
112) 1,3,5-trimethylbenzene	15.08	105	648489	94.42	ug/L	100
113) tert-butylbenzene	15.42	119	566363	94.66	ug/L	99
114) pentachloroethane	15.51	167	122304	93.59	ug/L	99
115) 1,2,4-trimethylbenzene	15.47	105	628907	94.54	ug/L	99
116) sec-butylbenzene	15.64	105	837168	95.32	ug/L	99
117) 1,3-dichlorobenzene	15.82	146	369526	99.70	ug/L	99
118) p-isopropyltoluene	15.75	119	709388	91.37	ug/L	100
119) 1,4-dichlorobenzene	15.90	146	366401	100.15	ug/L	100
120) 1,2-dichlorobenzene	16.29	146	348403	99.59	ug/L	99
122) n-butylbenzene	16.16	92	347467	94.51	ug/L	98
124) 1,2-dibromo-3-chloropropan	17.05	157	37076	108.46	ug/L	96
125) 1,3,5-Trichlorobenzene	17.25	180	312830	99.25	ug/L	99
126) 1,2,4-trichlorobenzene	17.87	180	263583	104.81	ug/L	100
127) hexachlorobutadiene	17.99	225	157864	97.44	ug/L	96
128) naphthalene	18.15	128	524432	108.73	ug/L	99
129) 1,2,3-trichlorobenzene	18.39	180	237519	104.72	ug/L	100
130) hexachloroethane	16.55	119	138062	94.62	ug/L	98
131) Benzyl chloride	16.01	91	340955	102.21	ug/L	99

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

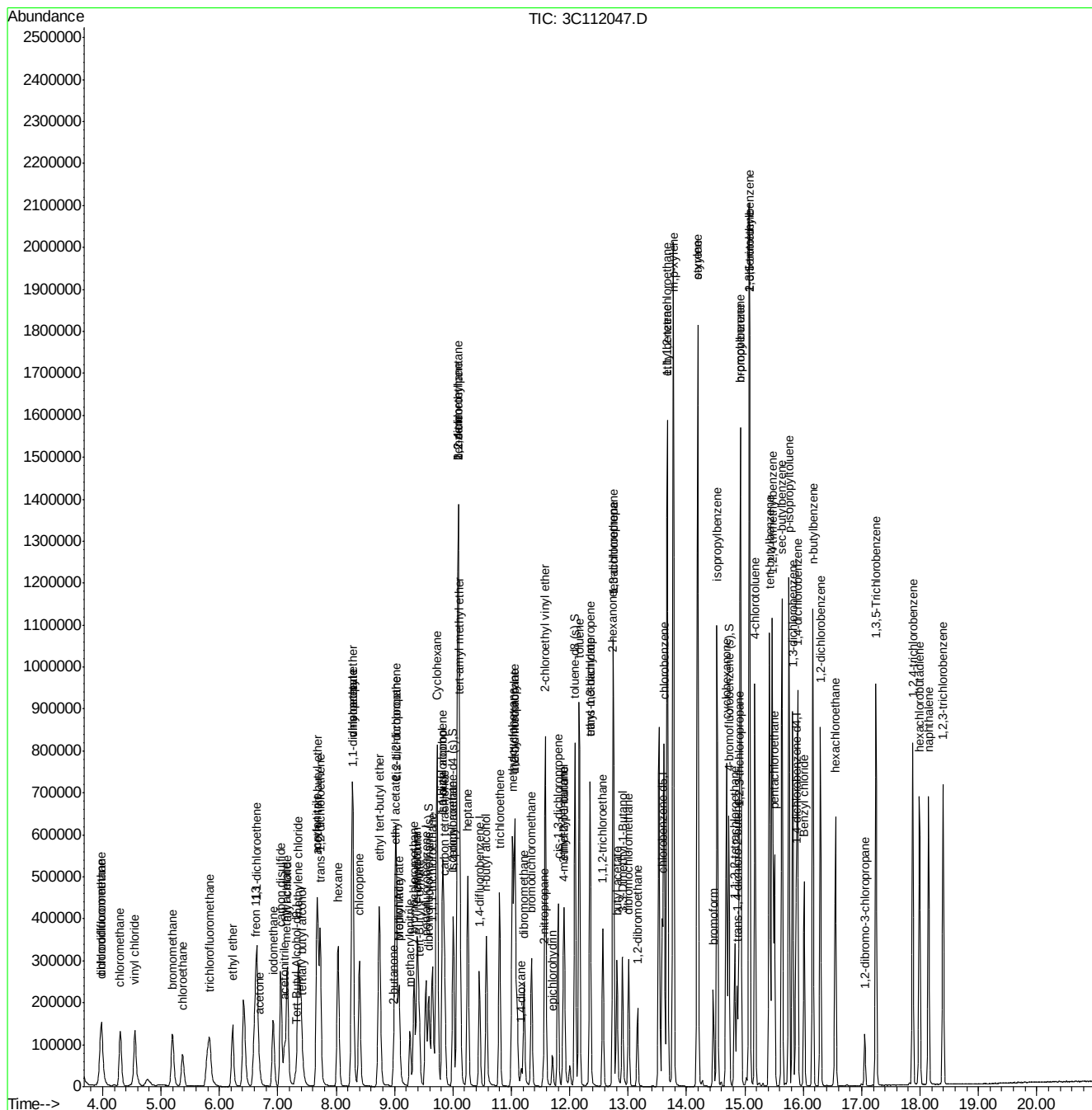
Quantitation Report (QT Reviewed)

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Data Path   : C:\MSDCHEM\1\DATA\
Data File   : 3C112047.D
Acq On      : 28 Jul 2014    3:48 pm
Operator    : prashans
Sample      : IC5053-100
Misc        : MS70923,V3C5053,5.0,,,,,1
ALS Vial    : 10    Sample Multiplier: 1

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Quant Time: Jul 29 12:35:44 2014
Quant Method : C:\MSDCHEM\1\METHODS\M3C5053.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Mon Jul 28 09:36:28 2014
Response via : Initial Calibration



7.6.9

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\
 Data File : 3C112048.D
 Acq On : 28 Jul 2014 4:16 pm
 Operator : prashans
 Sample : IC5053-200
 Misc : MS70923,V3C5053,5.0,,,,,1
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jul 29 12:37:16 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M3C5053.M
 Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
 QLast Update : Mon Jul 28 09:36:28 2014
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Tert Butyl Alcohol-d9	7.31	65	69121	500.00	ug/L	0.00
5) pentafluorobenzene	9.54	168	223909	50.00	ug/L	0.00
54) 1,4-difluorobenzene	10.45	114	267853	50.00	ug/L	0.00
83) chlorobenzene-d5	13.59	117	216190	50.00	ug/L	0.00
99) 1,4-dichlorobenzene-d4	15.88	152	109022	50.00	ug/L	0.00

System Monitoring Compounds

45) dibromofluoromethane (s)	9.58	113	308999	187.63	ug/L	0.00
Spiked Amount	50.000	Range	59 - 130	Recovery	=	375.26%#
46) 1,2-dichloroethane-d4 (s)	10.00	65	308107	177.68	ug/L	0.00
Spiked Amount	50.000	Range	65 - 123	Recovery	=	355.36%#
75) toluene-d8 (s)	12.09	98	1194705	189.11	ug/L	0.00
Spiked Amount	50.000	Range	80 - 124	Recovery	=	378.22%#
101) 4-bromofluorobenzene (s)	14.73	95	435884	181.06	ug/L	0.00
Spiked Amount	50.000	Range	71 - 132	Recovery	=	362.12%#

Target Compounds

Qvalue

2) 1,4-dioxane	11.17	88	81859	4638.96	ug/L	98
3) tertiary butyl alcohol	7.43	59	173870	841.09	ug/L	85
6) chlorodifluoromethane	3.98	51	363681	183.70	ug/L	99
7) dichlorodifluoromethane	3.97	85	448261	208.11	ug/L	97
8) chloromethane	4.31	50	490161	181.64	ug/L	99
9) vinyl chloride	4.55	62	472326	198.73	ug/L	99
10) bromomethane	5.19	94	301190	195.46	ug/L	97
11) chloroethane	5.36	64	247318	198.39	ug/L	99
15) trichlorofluoromethane	5.82	101	525518	203.80	ug/L	98
16) ethyl ether	6.22	74	191099	193.53	ug/L	96
18) 1,1-dichloroethene	6.64	61	486804	197.46	ug/L	98
19) acetone	6.69	58	28943	203.96	ug/L	95
20) allyl chloride	7.16	76	179075	196.01	ug/L	80
21) acetonitrile	7.11	40	218243	1808.91	ug/L	95
22) iodomethane	6.92	142	566924	196.92	ug/L	98
23) iso-butyl alcohol	9.82	41	99020	1906.10	ug/L	92
24) carbon disulfide	7.05	76	1096510	195.82	ug/L	99
25) methylene chloride	7.35	84	347028	187.48	ug/L	98
26) methyl acetate	7.15	74	45614	211.80	ug/L	98
27) methyl tert butyl ether	7.69	73	950065	184.78	ug/L	99
28) trans-1,2-dichloroethene	7.73	61	478953	189.16	ug/L	98
29) di-isopropyl ether	8.27	45	1137878	186.61	ug/L	97
30) ethyl tert-butyl ether	8.74	59	1110568	186.80	ug/L	100
31) 2-butanone	8.98	72	35414	215.23	ug/L	80
32) 1,1-dichloroethane	8.29	63	604384	187.81	ug/L	98
33) chloroprene	8.40	53	489233	199.45	ug/L	97
34) acrylonitrile	7.67	53	461468	969.57	ug/L	99
35) vinyl acetate	8.27	86	59698	216.42	ug/L	86
36) ethyl acetate	9.00	45	36342	201.47	ug/L	47
37) 2,2-dichloropropane	9.02	77	511763	184.87	ug/L	100
38) cis-1,2-dichloroethene	9.02	61	579573	187.84	ug/L	99
39) propionitrile	9.07	54	361454	1994.48	ug/L	96
40) Methyl Acrylate	9.08	85	40966	196.68	ug/L	98

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\
 Data File : 3C112048.D
 Acq On : 28 Jul 2014 4:16 pm
 Operator : prashans
 Sample : IC5053-200
 Misc : MS70923,V3C5053,5.0,,,,,1
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jul 29 12:37:16 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M3C5053.M
 Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
 QLast Update : Mon Jul 28 09:36:28 2014
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) bromochloromethane	9.33	128	172649	189.77	ug/L	95
42) tetrahydrofuran	9.38	72	37585	201.54	ug/L	91
43) chloroform	9.39	83	580837	184.54	ug/L	99
44) tert-Butyl Formate	9.42	59	229734	193.86	ug/L #	99
47) freon 113	6.61	151	262270	204.44	ug/L	94
48) methacrylonitrile	9.26	41	152680	193.68	ug/L	97
49) 1,1,1-trichloroethane	9.65	97	522762	192.13	ug/L	98
50) Cyclohexane	9.73	84	562729	206.10	ug/L	94
52) 2,2,4-trimethylpentane	10.09	57	1240412	209.10	ug/L	98
53) tert-amyl methyl ether	10.12	73	1050082	194.95	ug/L	99
55) epichlorohydrin	11.70	57	134046	1021.34	ug/L	100
56) n-butyl alcohol	10.57	56	471668	10181.35	ug/L	98
57) carbon tetrachloride	9.85	117	478446	202.95	ug/L	98
58) 1,1-dichloropropene	9.82	75	466052	196.50	ug/L	97
59) hexane	8.03	57	460526	202.21	ug/L	99
60) benzene	10.09	78	1415818	188.16	ug/L	100
61) heptane	10.25	57	280311	207.95	ug/L	99
62) isopropyl acetate	10.00	87	67379	206.98	ug/L #	93
63) 1,2-dichloroethane	10.10	62	387568	186.09	ug/L	99
64) trichloroethene	10.80	95	346531	194.87	ug/L	98
67) 2-nitropropane	11.56	41	89911	179.88	ug/L	99
68) 2-chloroethyl vinyl ether	11.58	63	772656	999.43	ug/L	99
69) methyl methacrylate	11.06	100	81767	210.22	ug/L	93
70) 1,2-dichloropropane	11.06	63	347884	187.24	ug/L	99
71) methylcyclohexane	11.02	83	625456	208.19	ug/L	99
72) dibromomethane	11.22	93	178611	190.40	ug/L	94
73) bromodichloromethane	11.35	83	446795	190.56	ug/L	99
74) cis-1,3-dichloropropene	11.80	75	560021	191.83	ug/L	97
76) 4-methyl-2-pentanone	11.89	58	107040	200.90	ug/L	99
77) toluene	12.16	91	1421584	183.93	ug/L	99
78) 3-methyl-1-butanol	11.91	70	179683	4074.19	ug/L	92
79) trans-1,3-dichloropropene	12.36	75	479375	185.81	ug/L	98
80) ethyl methacrylate	12.35	69	388716	199.43	ug/L	99
81) 1,1,2-trichloroethane	12.57	97	257755	183.40	ug/L	100
82) 2-hexanone	12.73	58	99550	209.82	ug/L	94
84) tetrachloroethene	12.74	166	386578	192.48	ug/L	100
85) 1,3-dichloropropane	12.75	76	455936	181.85	ug/L	99
86) butyl acetate	12.81	56	180614	198.71	ug/L	97
87) dibromochloromethane	13.01	129	335882	190.37	ug/L	99
88) 1,2-dibromoethane	13.16	107	258235	190.90	ug/L	99
89) 3,3-Dimethyl-1-Butanol	12.91	57	314249	1985.70	ug/L	98
90) chlorobenzene	13.62	112	921225	181.05	ug/L	99
91) 1,1,1,2-tetrachloroethane	13.67	131	363309	191.39	ug/L	99
92) ethylbenzene	13.67	91	1604987	184.95	ug/L	99
93) m,p-xylene	13.77	106	1256743	378.09	ug/L	94
94) o-xylene	14.19	91	1295470	183.17	ug/L	99
95) styrene	14.20	104	1031521	192.48	ug/L	99
98) bromoform	14.46	173	219887	207.33	ug/L	99
100) isopropylbenzene	14.52	105	1595142	184.23	ug/L	99
102) bromobenzene	14.92	156	398258	187.86	ug/L	96

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\
 Data File : 3C112048.D
 Acq On : 28 Jul 2014 4:16 pm
 Operator : prashans
 Sample : IC5053-200
 Misc : MS70923,V3C5053,5.0,,,,1
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jul 29 12:37:16 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M3C5053.M
 Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
 QLast Update : Mon Jul 28 09:36:28 2014
 Response via : Initial Calibration

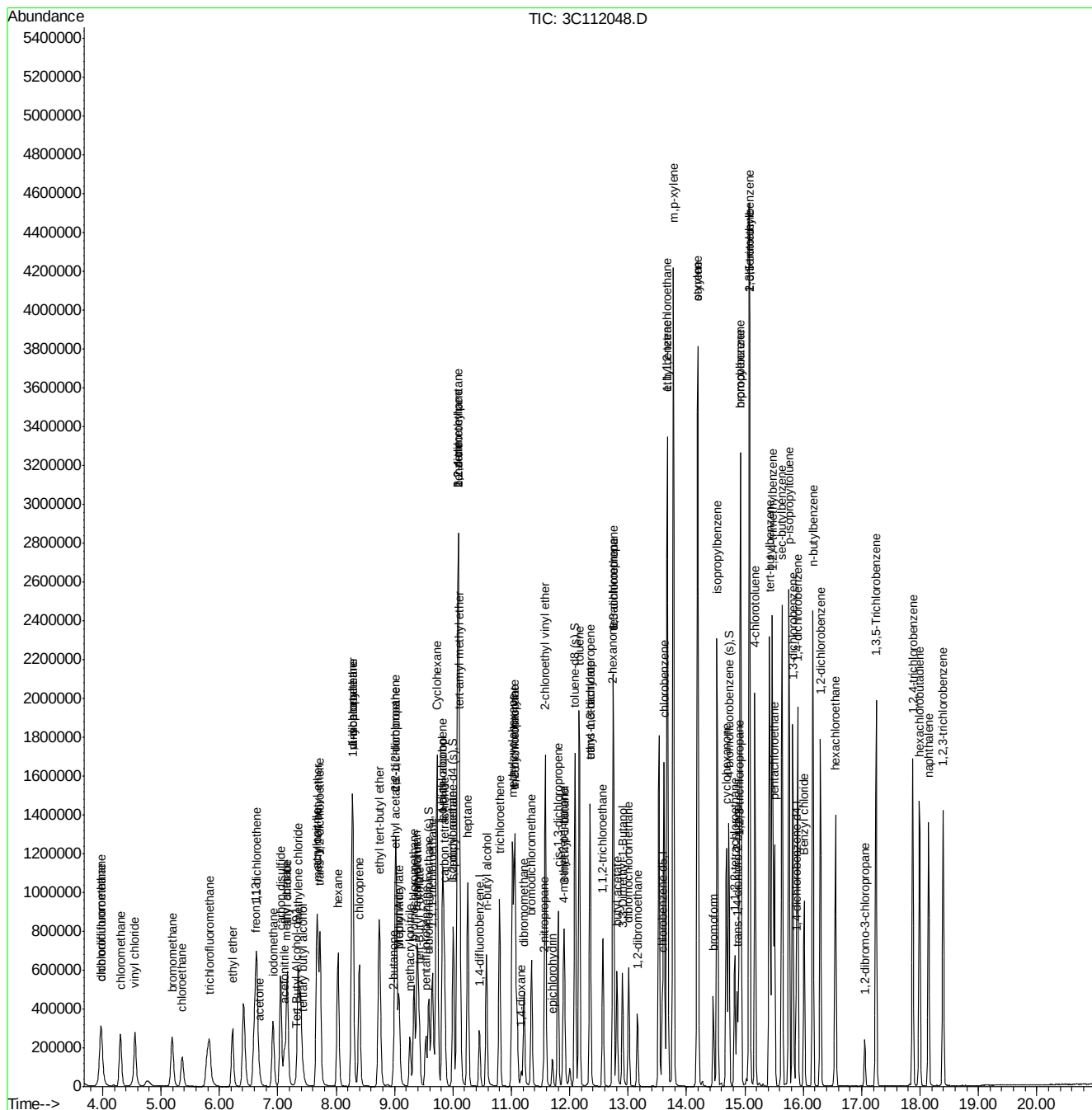
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
104) cyclohexanone	14.68	55	518806	1954.39	ug/L	97
105) 1,1,2,2-tetrachloroethane	14.83	83	338293	183.20	ug/L	100
106) trans-1,4-dichloro-2-buten	14.87	53	89135	188.15	ug/L	94
107) 1,2,3-trichloropropane	14.90	110	91578	179.23	ug/L	98
108) n-propylbenzene	14.93	91	1770628	185.13	ug/L	98
110) 2-chlorotoluene	15.08	126	391839	187.52	ug/L	99
111) 4-chlorotoluene	15.17	126	394478	189.08	ug/L	98
112) 1,3,5-trimethylbenzene	15.08	105	1378334	188.99	ug/L	99
113) tert-butylbenzene	15.42	119	1202348	189.24	ug/L	99
114) pentachloroethane	15.51	167	273455	197.06	ug/L	99
115) 1,2,4-trimethylbenzene	15.47	105	1325017	187.57	ug/L	99
116) sec-butylbenzene	15.64	105	1764163	189.16	ug/L	99
117) 1,3-dichlorobenzene	15.82	146	776141	197.83	ug/L	99
118) p-isopropyltoluene	15.75	119	1518081	184.14	ug/L	99
119) 1,4-dichlorobenzene	15.90	146	775355	200.24	ug/L	99
120) 1,2-dichlorobenzene	16.29	146	731683	197.67	ug/L	99
122) n-butylbenzene	16.16	92	743742	190.51	ug/L	99
124) 1,2-dibromo-3-chloropropan	17.06	157	75303	207.45	ug/L	98
125) 1,3,5-Trichlorobenzene	17.25	180	655554	195.86	ug/L	98
126) 1,2,4-trichlorobenzene	17.87	180	542639	203.20	ug/L	100
127) hexachlorobutadiene	17.99	225	331510	192.70	ug/L	99
128) naphthalene	18.15	128	1044239	203.89	ug/L	99
129) 1,2,3-trichlorobenzene	18.40	180	481045	199.72	ug/L	99
130) hexachloroethane	16.55	119	301331	194.49	ug/L	99
131) Benzyl chloride	16.01	91	688622	194.40	ug/L	99

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

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\
Data File : 3C112048.D
Acq On : 28 Jul 2014 4:16 pm
Operator : prashans
Sample : IC5053-200
Misc : MS70923,V3C5053,5.0,,,,,1
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jul 29 12:37:16 2014
Quant Method : C:\MSDCHEM\1\METHODS\M3C5053.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Mon Jul 28 09:36:28 2014
Response via : Initial Calibration



M3C5053.M Tue Jul 29 17:03:49 2014 MS3C

Page: 4

7.6.10

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\
 Data File : 3C112051.D
 Acq On : 28 Jul 2014 5:40 pm
 Operator : prashans
 Sample : ICV5053-50
 Misc : MS70923,V3C5053,5.0,,,,,1
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Jul 29 12:39:30 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M3C5053.M
 Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
 QLast Update : Tue Jul 29 12:37:28 2014
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Tert Butyl Alcohol-d9	7.30	65	62647	500.00	ug/L	0.00
5) pentafluorobenzene	9.54	168	213938	50.00	ug/L	0.00
54) 1,4-difluorobenzene	10.45	114	258337	50.00	ug/L	0.00
83) chlorobenzene-d5	13.59	117	204365	50.00	ug/L	0.00
99) 1,4-dichlorobenzene-d4	15.88	152	99214	50.00	ug/L	0.00

System Monitoring Compounds

45) dibromofluoromethane (s)	9.58	113	75871	48.23	ug/L	0.00
Spiked Amount	50.000	Range	59 - 130	Recovery	=	96.46%
46) 1,2-dichloroethane-d4 (s)	10.00	65	77484	47.99	ug/L	0.00
Spiked Amount	50.000	Range	65 - 123	Recovery	=	95.98%
75) toluene-d8 (s)	12.09	98	292054	46.46	ug/L	0.00
Spiked Amount	50.000	Range	80 - 124	Recovery	=	92.92%
101) 4-bromofluorobenzene (s)	14.73	95	104854	48.58	ug/L	0.00
Spiked Amount	50.000	Range	71 - 132	Recovery	=	97.16%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) 1,4-dioxane	11.17	88	20686	1278.85	ug/L	# 98
3) tertiary butyl alcohol	7.42	59	44839	251.02	ug/L	89
6) chlorodifluoromethane	3.97	51	84191	43.00	ug/L	98
7) dichlorodifluoromethane	3.96	85	110971	47.47	ug/L	100
8) chloromethane	4.29	50	121766	46.34	ug/L	98
9) vinyl chloride	4.54	62	116234	47.38	ug/L	98
10) bromomethane	5.19	94	73490	46.21	ug/L	99
11) chloroethane	5.36	64	61293	46.93	ug/L	97
12) 1,3-butadiene	4.60	54	198100	45.63	ug/L	99
15) trichlorofluoromethane	5.81	101	127953	46.83	ug/L	97
16) ethyl ether	6.22	74	47621	49.34	ug/L	96
17) acrolein	6.46	56	127986	477.08	ug/L	99
18) 1,1-dichloroethene	6.64	61	118841	45.31	ug/L	99
19) acetone	6.69	58	9183	50.35	ug/L	84
20) allyl chloride	7.16	76	43455	46.88	ug/L	87
21) acetonitrile	7.11	40	58174	509.75	ug/L	99
22) iodomethane	6.91	142	137355	48.29	ug/L	97
23) iso-butyl alcohol	9.82	41	23852	488.88	ug/L	95
24) carbon disulfide	7.04	76	271693	44.90	ug/L	99
25) methylene chloride	7.35	84	86876	47.36	ug/L	98
26) methyl acetate	7.14	74	11030	51.50	ug/L	99
27) methyl tert butyl ether	7.68	73	464421	94.29	ug/L	99
28) trans-1,2-dichloroethene	7.72	61	116388	46.58	ug/L	96
29) di-isopropyl ether	8.27	45	275925	47.77	ug/L	98
30) ethyl tert-butyl ether	8.73	59	263859	47.10	ug/L	100
31) 2-butanone	8.99	72	9620	51.16	ug/L	99
32) 1,1-dichloroethane	8.29	63	147038	47.03	ug/L	97
33) chloroprene	8.40	53	119532	48.27	ug/L	94
34) acrylonitrile	7.67	53	119101	268.04	ug/L	99
35) vinyl acetate	8.27	86	14763	54.10	ug/L	88
36) ethyl acetate	9.00	45	9916	52.97	ug/L	54
37) 2,2-dichloropropane	9.03	77	125471	44.01	ug/L	98
38) cis-1,2-dichloroethene	9.02	61	142321	47.46	ug/L	98

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\
 Data File : 3C112051.D
 Acq On : 28 Jul 2014 5:40 pm
 Operator : prashans
 Sample : ICV5053-50
 Misc : MS70923,V3C5053,5.0,,,,,1
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Jul 29 12:39:30 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M3C5053.M
 Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
 QLast Update : Tue Jul 29 12:37:28 2014
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) propionitrile	9.07	54	91143	506.73	ug/L	92
40) Methyl Acrylate	9.09	85	10005	50.77	ug/L	93
41) bromochloromethane	9.33	128	42296	50.72	ug/L	96
42) tetrahydrofuran	9.37	72	9360	50.80	ug/L	96
43) chloroform	9.39	83	141022	46.52	ug/L	97
44) tert-Butyl Formate	9.42	59	63684	57.75	ug/L #	99
47) freon 113	6.61	151	65669	50.38	ug/L	97
48) methacrylonitrile	9.27	41	38097	49.73	ug/L	98
49) 1,1,1-trichloroethane	9.64	97	127882	45.96	ug/L	98
50) Cyclohexane	9.72	84	135818	44.51	ug/L	98
52) 2,2,4-trimethylpentane	10.09	57	316799	50.12	ug/L	99
53) tert-amyl methyl ether	10.11	73	251663	48.62	ug/L	100
55) epichlorohydrin	11.70	57	33126	256.84	ug/L	96
56) n-butyl alcohol	10.57	56	117954	2694.89	ug/L	98
57) carbon tetrachloride	9.85	117	115064	44.93	ug/L	97
58) 1,1-dichloropropene	9.82	75	112725	44.75	ug/L	97
59) hexane	8.03	57	124769	52.76	ug/L	97
60) benzene	10.08	78	340781	45.07	ug/L	99
61) heptane	10.25	57	66994	45.67	ug/L	99
62) isopropyl acetate	10.00	87	16520	50.56	ug/L #	72
63) 1,2-dichloroethane	10.10	62	95475	46.68	ug/L	99
64) trichloroethene	10.80	95	83655	46.63	ug/L	98
67) 2-nitropropane	11.56	41	22337	47.71	ug/L	97
68) 2-chloroethyl vinyl ether	11.58	63	183907	252.85	ug/L	99
69) methyl methacrylate	11.06	100	19564	51.86	ug/L	92
70) 1,2-dichloropropane	11.06	63	84299	48.48	ug/L	100
71) methylcyclohexane	11.02	83	149656	47.30	ug/L	98
72) dibromomethane	11.22	93	43978	49.23	ug/L	98
73) bromodichloromethane	11.35	83	106852	48.30	ug/L	96
74) cis-1,3-dichloropropene	11.80	75	134119	48.72	ug/L	99
76) 4-methyl-2-pentanone	11.89	58	26786	51.66	ug/L	99
77) toluene	12.16	91	350485	45.28	ug/L	100
78) 3-methyl-1-butanol	11.91	70	45736	1109.98	ug/L	97
79) trans-1,3-dichloropropene	12.36	75	118027	50.02	ug/L	100
80) ethyl methacrylate	12.35	69	94248	51.09	ug/L	99
81) 1,1,2-trichloroethane	12.57	97	63378	48.83	ug/L	99
82) 2-hexanone	12.73	58	25145	51.50	ug/L	98
84) tetrachloroethene	12.74	166	98148	46.83	ug/L	98
85) 1,3-dichloropropane	12.75	76	113040	48.64	ug/L	99
86) butyl acetate	12.81	56	45401	49.13	ug/L	98
87) dibromochloromethane	13.01	129	80747	49.36	ug/L	97
88) 1,2-dibromoethane	13.16	107	64677	50.00	ug/L	98
89) 3,3-Dimethyl-1-Butanol	12.90	57	77415	527.66	ug/L	100
90) chlorobenzene	13.62	112	223439	45.64	ug/L	100
91) 1,1,1,2-tetrachloroethane	13.67	131	84800	47.52	ug/L	99
92) ethylbenzene	13.67	91	385410	45.30	ug/L	100
93) m,p-xylene	13.77	106	298164	92.96	ug/L	99
94) o-xylene	14.19	91	312882	45.94	ug/L	98
95) styrene	14.20	104	244814	49.00	ug/L	98
98) bromoform	14.46	173	52863	50.76	ug/L	100

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\
 Data File : 3C112051.D
 Acq On : 28 Jul 2014 5:40 pm
 Operator : prashans
 Sample : ICV5053-50
 Misc : MS70923,V3C5053,5.0,,,1
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Jul 29 12:39:30 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M3C5053.M
 Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
 QLast Update : Tue Jul 29 12:37:28 2014
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
100) isopropylbenzene	14.52	105	384888	45.26	ug/L	99
102) bromobenzene	14.92	156	95393	46.98	ug/L	99
103) cis-1,4-dichloro-2-butene	14.59	88	27622	47.88	ug/L	98
104) cyclohexanone	14.68	55	154950	479.39	ug/L	99
105) 1,1,2,2-tetrachloroethane	14.83	83	84628	48.03	ug/L	99
106) trans-1,4-dichloro-2-buten	14.87	53	21635	49.45	ug/L	91
107) 1,2,3-trichloropropane	14.90	110	22722	48.44	ug/L	97
108) n-propylbenzene	14.93	91	426846	44.92	ug/L	100
110) 2-chlorotoluene	15.08	126	92835	46.17	ug/L	99
111) 4-chlorotoluene	15.17	126	92891	46.70	ug/L	99
112) 1,3,5-trimethylbenzene	15.08	105	322673	45.77	ug/L	100
113) tert-butylbenzene	15.42	119	283706	46.15	ug/L	99
114) pentachloroethane	15.51	167	59415	46.65	ug/L	99
115) 1,2,4-trimethylbenzene	15.47	105	310863	45.27	ug/L	99
116) sec-butylbenzene	15.64	105	418122	45.86	ug/L	98
117) 1,3-dichlorobenzene	15.82	146	182470	45.57	ug/L	99
118) p-isopropyltoluene	15.75	119	355948	46.50	ug/L	99
119) 1,4-dichlorobenzene	15.90	146	178841	44.34	ug/L	99
120) 1,2-dichlorobenzene	16.29	146	171888	45.94	ug/L	99
122) n-butylbenzene	16.16	92	172298	46.38	ug/L	99
124) 1,2-dibromo-3-chloropropan	17.06	157	17640	49.98	ug/L	94
125) 1,3,5-Trichlorobenzene	17.25	180	153278	47.17	ug/L	99
126) 1,2,4-trichlorobenzene	17.87	180	125827	49.62	ug/L	99
127) hexachlorobutadiene	17.99	225	78655	45.34	ug/L	97
128) naphthalene	18.15	128	251029	52.77	ug/L	99
129) 1,2,3-trichlorobenzene	18.40	180	115303	51.61	ug/L	99
130) hexachloroethane	16.55	119	67591	45.56	ug/L	100
131) Benzyl chloride	16.02	91	162755	49.41	ug/L	100

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

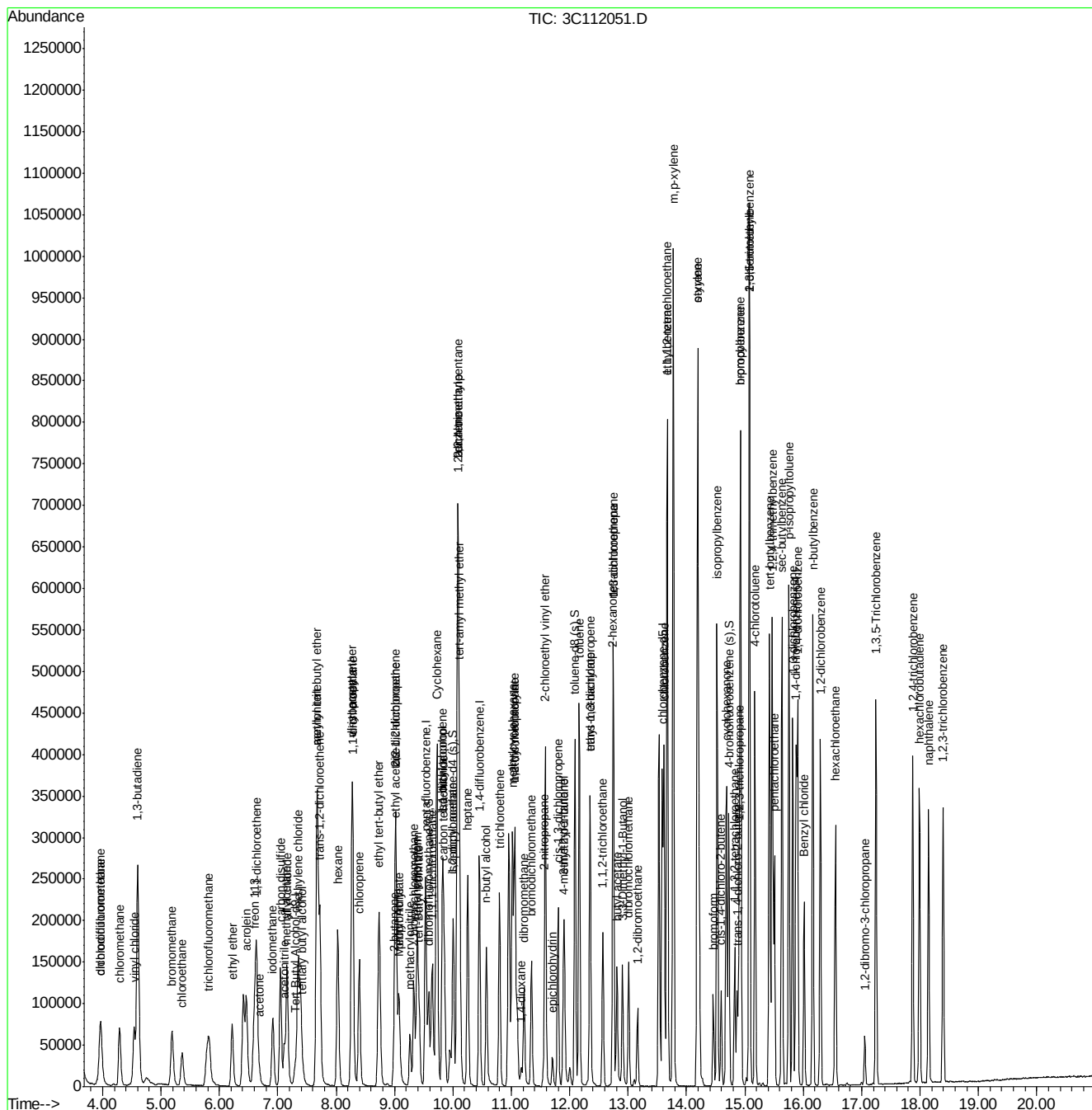
7.6.11

7

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\
Data File : 3C112051.D
Acq On : 28 Jul 2014 5:40 pm
Operator : prashans
Sample : ICV5053-50
Misc : MS70923,V3C5053,5.0,,,,,1
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Jul 29 12:39:30 2014
Quant Method : C:\MSDCHEM\1\METHODS\M3C5053.M
Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Tue Jul 29 12:37:28 2014
Response via : Initial Calibration



7.6.11



Quantitation Report (Not Reviewed)

Data Path : C:\MSDCHEM\1\DATA\
 Data File : 3C113331.D
 Acq On : 8 Sep 2014 1:21 pm
 Operator : prashans
 Sample : CC5053-20
 Misc : MS73404,V3C5123,5.0,,,,,1
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 08 13:43:42 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M3C5053.M
 Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
 QLast Update : Tue Aug 26 17:19:34 2014
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Tert Butyl Alcohol-d9	7.29	65	59208	500.00	ug/L	-0.01
5) pentafluorobenzene	9.53	168	222882	50.00	ug/L	-0.01
54) 1,4-difluorobenzene	10.45	114	260981	50.00	ug/L	0.00
83) chlorobenzene-d5	13.58	117	233448	50.00	ug/L	0.00
99) 1,4-dichlorobenzene-d4	15.87	152	113828	50.00	ug/L	0.00

System Monitoring Compounds

45) dibromofluoromethane (s)	9.58	113	82370	50.26	ug/L	0.00
Spiked Amount	50.000	Range	59 - 130	Recovery	=	100.52%
46) 1,2-dichloroethane-d4 (s)	10.00	65	88215	52.44	ug/L	0.00
Spiked Amount	50.000	Range	65 - 123	Recovery	=	104.88%
75) toluene-d8 (s)	12.08	98	345747	54.45	ug/L	0.00
Spiked Amount	50.000	Range	80 - 124	Recovery	=	108.90%
101) 4-bromofluorobenzene (s)	14.72	95	124741	50.37	ug/L	0.00
Spiked Amount	50.000	Range	71 - 132	Recovery	=	100.74%

Target Compounds

						Qvalue
2) 1,4-dioxane	11.16	88	7800	510.22	ug/L	# 96
3) tertiary butyl alcohol	7.41	59	19505	115.54	ug/L	# 45
6) chlorodifluoromethane	3.96	51	34874	17.10	ug/L	93
7) dichlorodifluoromethane	3.95	85	58050	23.84	ug/L	99
8) chloromethane	4.29	50	63900	23.34	ug/L	97
9) vinyl chloride	4.53	62	59599	23.32	ug/L	99
10) bromomethane	5.19	94	38537	23.26	ug/L	92
11) chloroethane	5.36	64	32439	23.84	ug/L	97
15) trichlorofluoromethane	5.81	101	69076	24.27	ug/L	97
16) ethyl ether	6.22	74	21619	21.50	ug/L	97
17) acrolein	6.46	56	61298	219.33	ug/L	94
18) 1,1-dichloroethene	6.64	61	55781	20.42	ug/L	94
19) acetone	6.68	58	3247	17.09	ug/L	92
20) allyl chloride	7.16	76	19909	20.62	ug/L	# 76
21) acetonitrile	7.12	40	26666	224.29	ug/L	86
22) iodomethane	6.91	142	60246	20.33	ug/L	100
23) iso-butyl alcohol	9.81	41	11684	229.87	ug/L	84
24) carbon disulfide	7.04	76	120511	19.11	ug/L	95
25) methylene chloride	7.35	84	43277	22.64	ug/L	95
26) methyl acetate	7.15	74	4800	21.51	ug/L	# 86
27) methyl tert butyl ether	7.68	73	111141	21.66	ug/L	95
28) trans-1,2-dichloroethene	7.72	61	55542	21.34	ug/L	93
29) di-isopropyl ether	8.26	45	132841	22.08	ug/L	89
30) ethyl tert-butyl ether	8.73	59	125625	21.52	ug/L	97
31) 2-butanone	9.00	72	3946	20.14	ug/L	73
32) 1,1-dichloroethane	8.28	63	70583	21.67	ug/L	100
33) chloroprene	8.39	53	53442	20.72	ug/L	95
34) acrylonitrile	7.66	53	53953	116.55	ug/L	99
35) vinyl acetate	8.27	86	5532	19.46	ug/L	58
36) ethyl acetate	9.00	45	4193	21.50	ug/L	# 1
37) 2,2-dichloropropane	9.02	77	61240	20.62	ug/L	98
38) cis-1,2-dichloroethene	9.01	61	67761	21.69	ug/L	99
39) propionitrile	9.07	54	42285	225.66	ug/L	65

Quantitation Report (Not Reviewed)

Data Path : C:\MSDCHEM\1\DATA\
 Data File : 3C113331.D
 Acq On : 8 Sep 2014 1:21 pm
 Operator : prashans
 Sample : CC5053-20
 Misc : MS73404,V3C5123,5.0,,,,,1
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 08 13:43:42 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M3C5053.M
 Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
 QLast Update : Tue Aug 26 17:19:34 2014
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
40) Methyl Acrylate	9.08	85	3701	18.46	ug/L	69
41) bromochloromethane	9.33	128	18721	21.55	ug/L	88
42) tetrahydrofuran	9.37	72	4486	23.37	ug/L	92
43) chloroform	9.38	83	68109	21.57	ug/L	97
44) tert-Butyl Formate	9.42	59	25994	22.63	ug/L #	96
47) freon 113	6.60	151	26248	19.33	ug/L	95
48) methacrylonitrile	9.26	41	17992	22.54	ug/L	98
49) 1,1,1-trichloroethane	9.64	97	61311	21.15	ug/L	96
50) Cyclohexane	9.72	84	60795	19.12	ug/L	87
52) 2,2,4-trimethylpentane	10.08	57	124392	18.89	ug/L	92
53) tert-amyl methyl ether	10.11	73	114624	21.25	ug/L	98
55) epichlorohydrin	11.70	57	14947	114.72	ug/L	93
56) n-butyl alcohol	10.57	56	45031	1018.40	ug/L	95
57) carbon tetrachloride	9.84	117	53079	20.52	ug/L	97
58) 1,1-dichloropropene	9.81	75	51992	20.43	ug/L	97
59) hexane	8.03	57	45529	16.20	ug/L	97
60) benzene	10.08	78	156462	20.48	ug/L	97
61) heptane	10.25	57	29834	20.13	ug/L	94
62) isopropyl acetate	10.00	87	7045	21.34	ug/L #	84
63) 1,2-dichloroethane	10.09	62	49588	24.00	ug/L	98
64) trichloroethene	10.79	95	37993	20.96	ug/L	97
67) 2-nitropropane	11.55	41	13371	28.27	ug/L	91
68) 2-chloroethyl vinyl ether	11.58	63	85920	116.93	ug/L	98
69) methyl methacrylate	11.06	100	7318	19.20	ug/L #	56
70) 1,2-dichloropropane	11.05	63	40751	23.20	ug/L	97
71) methylcyclohexane	11.01	83	64911	20.31	ug/L	95
72) dibromomethane	11.21	93	21044	23.32	ug/L	97
73) bromodichloromethane	11.34	83	53254	23.83	ug/L	95
74) cis-1,3-dichloropropene	11.80	75	63862	22.96	ug/L	89
76) 4-methyl-2-pentanone	11.89	58	12835	24.50	ug/L	97
77) toluene	12.16	91	170631	21.82	ug/L	98
78) 3-methyl-1-butanol	11.91	70	18017	432.83	ug/L	91
79) trans-1,3-dichloropropene	12.35	75	58094	24.37	ug/L	81
80) ethyl methacrylate	12.34	69	40721	21.85	ug/L	96
81) 1,1,2-trichloroethane	12.56	97	30979	23.62	ug/L	96
82) 2-hexanone	12.73	58	11029	22.36	ug/L	85
84) tetrachloroethene	12.74	166	44622	18.64	ug/L	100
85) 1,3-dichloropropane	12.74	76	55504	20.91	ug/L	98
86) butyl acetate	12.81	56	20905	19.80	ug/L	88
87) dibromochloromethane	13.01	129	37631	20.14	ug/L	98
88) 1,2-dibromoethane	13.15	107	31617	21.40	ug/L	98
89) 3,3-Dimethyl-1-Butanol	12.90	57	31259	186.52	ug/L	98
90) chlorobenzene	13.61	112	108954	19.48	ug/L	94
91) 1,1,1,2-tetrachloroethane	13.67	131	42363	20.78	ug/L	100
92) ethylbenzene	13.66	91	197662	20.34	ug/L	98
93) m,p-xylene	13.77	106	149582	40.83	ug/L	100
94) o-xylene	14.18	91	161892	20.81	ug/L	98
95) styrene	14.19	104	114495	20.06	ug/L	99
98) bromoform	14.45	173	25184	21.17	ug/L	97
100) isopropylbenzene	14.52	105	194854	19.97	ug/L	96

Quantitation Report (Not Reviewed)

Data Path : C:\MSDCHEM\1\DATA\
 Data File : 3C113331.D
 Acq On : 8 Sep 2014 1:21 pm
 Operator : prashans
 Sample : CC5053-20
 Misc : MS73404,V3C5123,5.0,,,1
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 08 13:43:42 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M3C5053.M
 Quant Title : Method SW846 8260B, ZB624 60m x 0.25mm x 1.4um
 QLast Update : Tue Aug 26 17:19:34 2014
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
102) bromobenzene	14.91	156	48270	20.72	ug/L	94
103) cis-1,4-dichloro-2-butene	14.72	88	5342	8.07	ug/L #	1
104) cyclohexanone	14.68	55	56414	152.13	ug/L	93
105) 1,1,2,2-tetrachloroethane	14.82	83	44926	22.22	ug/L	97
106) trans-1,4-dichloro-2-buten	14.86	53	11939	23.78	ug/L	85
107) 1,2,3-trichloropropane	14.89	110	11705	21.75	ug/L	99
108) n-propylbenzene	14.92	91	225598	20.69	ug/L	97
110) 2-chlorotoluene	15.07	126	46506	20.16	ug/L	90
111) 4-chlorotoluene	15.17	126	47179	20.68	ug/L	96
112) 1,3,5-trimethylbenzene	15.07	105	165998	20.52	ug/L	97
113) tert-butylbenzene	15.42	119	142190	20.16	ug/L	96
114) pentachloroethane	15.49	167	30182	20.65	ug/L	94
115) 1,2,4-trimethylbenzene	15.46	105	160049	20.32	ug/L	95
116) sec-butylbenzene	15.63	105	216766	20.72	ug/L	99
117) 1,3-dichlorobenzene	15.81	146	93050	20.26	ug/L	98
118) p-isopropyltoluene	15.75	119	173603	19.77	ug/L	98
119) 1,4-dichlorobenzene	15.90	146	93157	20.13	ug/L	99
120) 1,2-dichlorobenzene	16.28	146	89609	20.87	ug/L	97
122) n-butylbenzene	16.15	92	89541	21.01	ug/L	96
124) 1,2-dibromo-3-chloropropan	17.05	157	8155	20.14	ug/L	93
125) 1,3,5-Trichlorobenzene	17.24	180	74333	19.94	ug/L	100
126) 1,2,4-trichlorobenzene	17.87	180	57199	19.66	ug/L	95
127) hexachlorobutadiene	17.98	225	37463	18.82	ug/L	94
128) naphthalene	18.14	128	109244	20.02	ug/L	99
129) 1,2,3-trichlorobenzene	18.39	180	51510	20.10	ug/L	94
130) hexachloroethane	16.55	119	34179	20.08	ug/L	98
131) Benzyl chloride	16.01	91	80023	21.17	ug/L	97

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
 Data File : 4d50730.D
 Acq On : 4 Aug 2014 12:51 pm
 Operator : PayalR
 Sample : ic2264-0.2
 Misc : MS71470,V4D2264,5,,,,,1
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 05 08:37:11 2014
 Quant Method : C:\msdchem\1\methods\M4D2264.M
 Quant Title : SW-846 Method 8260B/8260C
 QLast Update : Mon Aug 04 13:26:25 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Tert Butyl Alcohol-d9	6.998	65	93331	500.00	ug/L	0.00
4) pentafluorobenzene	9.583	168	185553	50.00	ug/L	0.00
51) 1,4-difluorobenzene	10.542	114	230680	50.00	ug/L	0.00
83) chlorobenzene-d5	13.914	117	202894	50.00	ug/L	0.00
98) 1,4-dichlorobenzene-d4	16.341	152	108975	50.00	ug/L	0.00
System Monitoring Compounds						
45) dibromofluoromethane (s)	0.000	113	0d	0.00	ug/L	
Spiked Amount	50.000	Range 79 - 120	Recovery	=	0.00%#	
46) 1,2-dichloroethane-d4 (s)	0.000	65	0d	0.00	ug/L	
Spiked Amount	50.000	Range 72 - 123	Recovery	=	0.00%#	
75) toluene-d8 (s)	0.000	98	0d	0.00	ug/L	
Spiked Amount	50.000	Range 78 - 119	Recovery	=	0.00%#	
100) 4-bromofluorobenzene (s)	0.000	95	0d	0.00	ug/L	
Spiked Amount	50.000	Range 74 - 119	Recovery	=	0.00%#	
Target Compounds						
44) chloroform	9.358	83	597	0.16	ug/L	Qvalue 67
59) benzene	10.123	78	1035	0.13	ug/L	56
77) toluene	12.388	92	641	0.13	ug/L	94
90) chlorobenzene	13.950	112	851	0.16	ug/L #	75
92) ethylbenzene	14.040	91	1340	0.15	ug/L	90
93) m,p-xylene	14.155	106	924	0.28	ug/L	92
95) styrene	14.606	104	836	0.14	ug/L	90
99) isopropylbenzene	14.973	105	1240	0.14	ug/L	81
106) n-propylbenzene	15.398	91	1536	0.14	ug/L	98
108) 4-chlorotoluene	15.633	91	1058	0.15	ug/L	90
109) 1,3,5-trimethylbenzene	15.555	105	1044	0.13	ug/L	89
112) 1,2,4-trimethylbenzene	15.959	105	1085	0.14	ug/L	90
113) sec-butylbenzene	16.132	105	1373	0.13	ug/L	82
115) p-isopropyltoluene	16.252	119	1071	0.13	ug/L	99
118) n-butylbenzene	16.656	92	565	0.13	ug/L	98
120) 1,3,5-trichlorobenzene	17.678	180	594	0.15	ug/L #	83

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

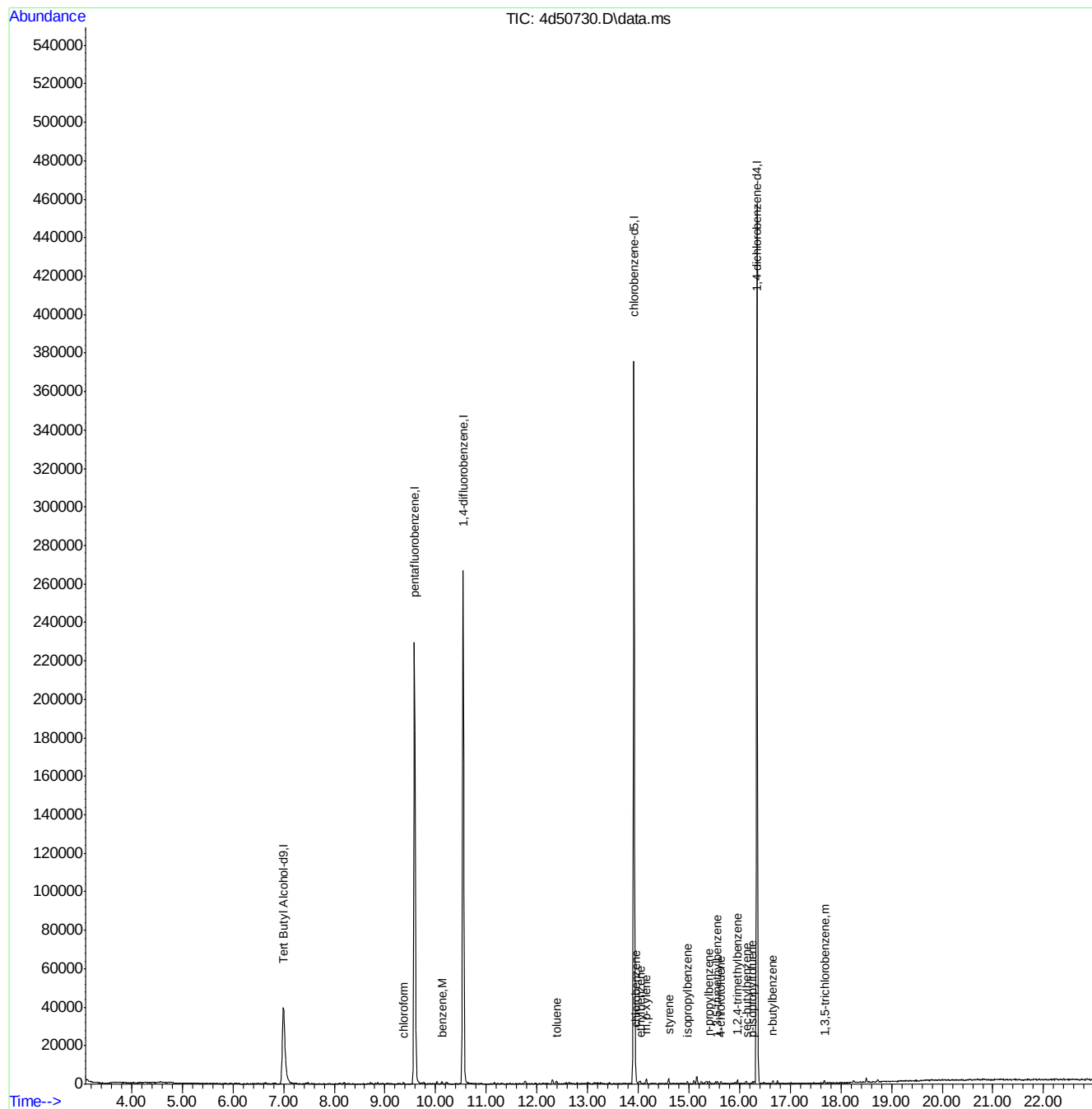
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Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 4d50730.D
Acq On : 4 Aug 2014 12:51 pm
Operator : PayalR
Sample : ic2264-0.2
Misc : MS71470,V4D2264,5,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 05 08:37:11 2014
Quant Method : C:\msdchem\1\methods\M4D2264.M
Quant Title : SW-846 Method 8260B/8260C
QLast Update : Mon Aug 04 13:26:25 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
 Data File : 4d50733.D
 Acq On : 4 Aug 2014 2:13 pm
 Operator : PayalR
 Sample : ic2264-2
 Misc : MS71470,V4D2264,5,,,,,1
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 04 15:29:25 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M4D2264.M
 Quant Title : SW-846 Method 8260B/8260C
 QLast Update : Fri Jun 13 18:05:07 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Tert Butyl Alcohol-d9	6.998	65	92433	500.00	ug/L	0.00
4) pentafluorobenzene	9.583	168	182096	50.00	ug/L	0.00
51) 1,4-difluorobenzene	10.537	114	229458	50.00	ug/L	0.00
83) chlorobenzene-d5	13.914	117	207029	50.00	ug/L	0.00
98) 1,4-dichlorobenzene-d4	16.341	152	109213	50.00	ug/L	0.00
System Monitoring Compounds						
45) dibromofluoromethane (s)	9.572	113	3111	1.61	ug/L	0.00
Spiked Amount 50.000	Range 79 - 120		Recovery =	3.22%#		
46) 1,2-dichloroethane-d4 (s)	10.018	65	3113	1.55	ug/L	0.00
Spiked Amount 50.000	Range 72 - 123		Recovery =	3.10%#		
75) toluene-d8 (s)	12.299	98	9260	1.49	ug/L	0.00
Spiked Amount 50.000	Range 78 - 119		Recovery =	2.98%#		
100) 4-bromofluorobenzene (s)	15.156	95	4114	1.48	ug/L	0.00
Spiked Amount 50.000	Range 74 - 119		Recovery =	2.96%#		
Target Compounds						
2) 1,4-dioxane	11.292	88	908	40.73	ug/L	76
3) tertiary butyl alcohol	7.140	59	2058	7.47	ug/L	74
5) chlorodifluoromethane	3.333	51	2550	1.19	ug/L	65
6) dichlorodifluoromethane	3.333	85	3444	1.16	ug/L	85
7) chloromethane	3.616	50	4337	1.30	ug/L	96
8) vinyl chloride	3.873	62	3926	1.27	ug/L	90
10) bromomethane	4.550	94	2861	1.28	ug/L	86
11) chloroethane	4.765	64	1659	1.28	ug/L	92
12) trichlorofluoromethane	5.305	101	3326	1.02	ug/L	90
14) ethyl ether	5.787	74	1509	1.54	ug/L	88
16) 2-chloropropane	5.965	43	5619	1.71	ug/L	46
17) acrolein	5.997	56	1000280	1883.26	ug/L	99
18) 1,1-dichloroethene	6.222	96	3219	1.68	ug/L	90
20) allyl chloride	6.825	76	1525	1.60	ug/L	70
21) acetonitrile	6.752	40	2257	17.71	ug/L	78
22) iodomethane	6.489	142	6455	1.78	ug/L	99
23) iso-butyl alcohol	9.876	41	1497	16.25	ug/L	87
24) carbon disulfide	6.636	76	12453	1.77	ug/L	98
25) methylene chloride	7.014	84	3901	1.67	ug/L	98
26) 1-chloropropane	7.071	42	6142	1.84	ug/L	92
28) methyl tert butyl ether	7.459	73	9751	1.61	ug/L	98
29) trans-1,2-dichloroethene	7.470	96	3460	1.61	ug/L	95
30) di-isopropyl ether	8.188	45	8947	1.31	ug/L	68
31) ethyl tert-butyl ether	8.713	59	8632	1.38	ug/L	98
33) 1,1-dichloroethane	8.115	63	6476	1.76	ug/L	97
34) chloroprene	8.256	53	3475	1.32	ug/L	98
35) acrylonitrile	7.386	53	7988	8.36	ug/L	94
38) 2,2-dichloropropane	8.959	77	4621	1.65	ug/L	97
39) cis-1,2-dichloroethene	8.948	96	3895	1.66	ug/L	93
40) propionitrile	9.006	54	7137	18.40	ug/L	94
41) methyl acrylate	9.074	55	3718	1.69	ug/L	79
42) bromochloromethane	9.274	128	1933	1.73	ug/L	94

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
 Data File : 4d50733.D
 Acq On : 4 Aug 2014 2:13 pm
 Operator : PayalR
 Sample : ic2264-2
 Misc : MS71470,V4D2264,5,,,1
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 04 15:29:25 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M4D2264.M
 Quant Title : SW-846 Method 8260B/8260C
 QLast Update : Fri Jun 13 18:05:07 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) tetrahydrofuran	9.347	42	1301	1.61	ug/L	# 32
44) chloroform	9.352	83	6415	1.72	ug/L	97
47) freon 113	6.227	151	1665	1.22	ug/L	88
48) methacrylonitrile	9.232	41	2307	1.50	ug/L	93
49) 1,1,1-trichloroethane	9.646	97	4597	1.55	ug/L	90
50) tert-amyl methyl ether	10.217	73	8440	1.38	ug/L	97
52) epichlorohydrin	11.853	57	1897	7.14	ug/L	91
53) n-butyl alcohol	10.689	56	7028	85.44	ug/L	92
54) cyclohexane	9.745	84	4621	1.75	ug/L	98
56) carbon tetrachloride	9.871	117	4252	1.70	ug/L	96
57) 1,1-dichloropropene	9.850	75	4698	1.76	ug/L	97
58) hexane	7.900	57	2943	1.32	ug/L	93
59) benzene	10.123	78	14304	1.83	ug/L	94
60) ISO-OCTANE	10.207	57	8478	1.25	ug/L	95
61) heptane	10.401	57	1841	1.39	ug/L	96
62) isopropyl acetate	10.112	43	6134	1.44	ug/L	# 93
63) 1,2-dichloroethane	10.118	62	4515	1.70	ug/L	97
64) trichloroethene	10.894	95	3516	1.64	ug/L	90
66) 2-nitropropane	11.696	43	1239	1.82	ug/L	94
67) 2-chloroethyl vinyl ether	11.759	63	10866	6.72	ug/L	100
68) methyl methacrylate	11.224	41	2954	1.44	ug/L	97
69) 1,2-dichloropropane	11.156	63	3738	1.71	ug/L	97
70) methylcyclohexane	11.156	83	4226	1.38	ug/L	97
72) dibromomethane	11.303	93	2684	1.82	ug/L	98
73) bromodichloromethane	11.460	83	5061	1.73	ug/L	96
74) cis-1,3-dichloropropene	11.968	75	6039	1.76	ug/L	99
76) 4-methyl-2-pentanone	12.105	58	2008	1.88	ug/L	# 90
77) toluene	12.377	92	8108	1.72	ug/L	98
78) 3-methyl-1-butanol	12.126	70	2464	31.44	ug/L	96
79) trans-1,3-dichloropropene	12.571	75	6008	1.86	ug/L	97
80) ethyl methacrylate	12.619	69	5471	1.71	ug/L	97
81) 1,1,2-trichloroethane	12.792	83	3712	1.99	ug/L	98
82) 2-hexanone	13.028	58	2094	2.04	ug/L	92
84) tetrachloroethene	13.007	166	3793	1.82	ug/L	99
85) 1,3-dichloropropane	12.991	76	6021	1.85	ug/L	100
86) butyl acetate	13.132	56	2388	1.35	ug/L	93
87) dibromochloromethane	13.263	129	4775	1.94	ug/L	98
88) 1,2-dibromoethane	13.421	107	4200	1.86	ug/L	99
90) chlorobenzene	13.945	112	10202	1.85	ug/L	100
91) 1,1,1,2-tetrachloroethane	14.013	131	3957	1.89	ug/L	95
92) ethylbenzene	14.034	91	16110	1.74	ug/L	99
93) m,p-xylene	14.150	106	11864	3.48	ug/L	99
94) o-xylene	14.595	106	6027	1.76	ug/L	95
95) styrene	14.600	104	10448	1.73	ug/L	97
97) bromoform	14.836	173	3970	2.14	ug/L	96
99) isopropylbenzene	14.973	105	15490	1.71	ug/L	97
101) bromobenzene	15.345	156	4727	1.87	ug/L	99
102) cyclohexanone	15.093	55	5415	17.67	ug/L	93
103) 1,1,2,2-tetrachloroethane	15.245	83	8164	2.35	ug/L	98
104) trans-1,4-dichloro-2-b...	15.303	53	1713	2.78	ug/L	94

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
 Data File : 4d50733.D
 Acq On : 4 Aug 2014 2:13 pm
 Operator : PayalR
 Sample : ic2264-2
 Misc : MS71470,V4D2264,5,,,,,1
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 04 15:29:25 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M4D2264.M
 Quant Title : SW-846 Method 8260B/8260C
 QLast Update : Fri Jun 13 18:05:07 2014
 Response via : Initial Calibration

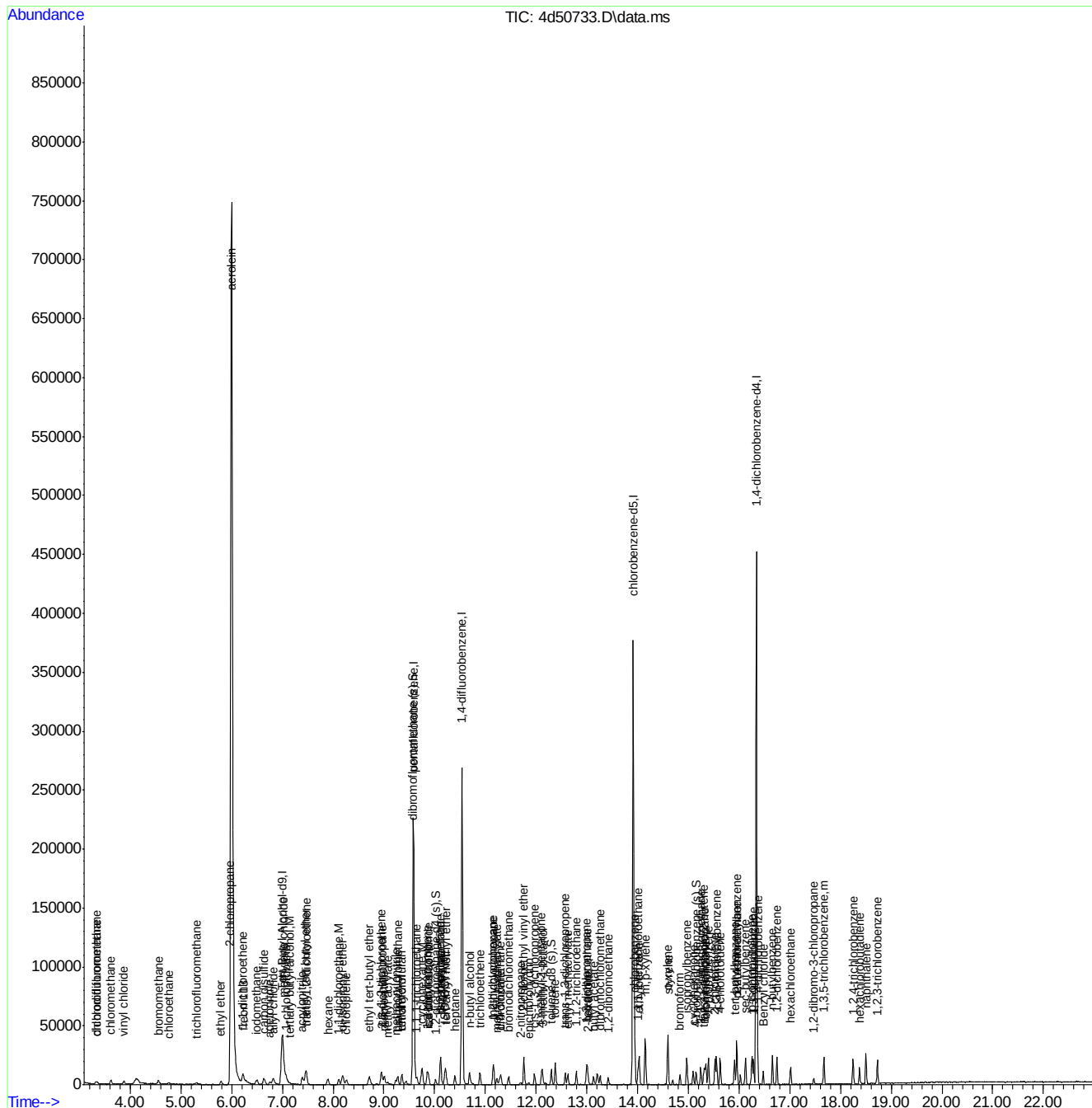
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
105) 1,2,3-trichloropropane	15.319	110	1741	2.27	ug/L	94
106) n-propylbenzene	15.397	91	18231	1.69	ug/L	99
107) 2-chlorotoluene	15.523	126	4117	1.81	ug/L	99
108) 4-chlorotoluene	15.628	91	12285	1.75	ug/L	98
109) 1,3,5-trimethylbenzene	15.555	105	12730	1.61	ug/L	99
110) tert-butylbenzene	15.911	119	10795	1.67	ug/L	100
111) pentachloroethane	15.958	167	3059	1.81	ug/L	95
112) 1,2,4-trimethylbenzene	15.953	105	12927	1.63	ug/L	96
113) sec-butylbenzene	16.126	105	17361	1.69	ug/L	98
114) 1,3-dichlorobenzene	16.283	146	8792	1.83	ug/L	96
115) p-isopropyltoluene	16.252	119	13737	1.65	ug/L	98
116) 1,4-dichlorobenzene	16.367	146	9261	1.89	ug/L	98
117) 1,2-dichlorobenzene	16.745	146	8936	1.85	ug/L	98
118) n-butylbenzene	16.656	92	7411	1.64	ug/L	98
119) 1,2-dibromo-3-chloropr...	17.474	75	1478	2.31	ug/L	93
120) 1,3,5-trichlorobenzene	17.673	180	7204	1.81	ug/L	99
121) 1,2,4-trichlorobenzene	18.244	180	6625	1.81	ug/L	100
122) hexachlorobutadiene	18.375	225	3183	1.76	ug/L	95
123) naphthalene	18.501	128	18866	1.97	ug/L	100
124) 1,2,3-trichlorobenzene	18.727	180	6471	1.83	ug/L	92
125) hexachloroethane	17.012	119	3046	1.64	ug/L	99
126) Benzyl chloride	16.477	91	7968	1.31	ug/L	98

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 4d50733.D
Acq On : 4 Aug 2014 2:13 pm
Operator : PayalR
Sample : ic2264-2
Misc : MS71470,V4D2264,5,,,,,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 04 15:29:25 2014
Quant Method : C:\MSDCHEM\1\METHODS\M4D2264.M
Quant Title : SW-846 Method 8260B/8260C
QLast Update : Fri Jun 13 18:05:07 2014
Response via : Initial Calibration



M4D2264.M Tue Aug 05 11:34:46 2014 RPT1

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Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
 Data File : 4d50734.D
 Acq On : 4 Aug 2014 2:41 pm
 Operator : PayalR
 Sample : ic2264-5
 Misc : MS71470,V4D2264,5,,,1
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 04 15:31:09 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M4D2264.M
 Quant Title : SW-846 Method 8260B/8260C
 QLast Update : Fri Jun 13 18:05:07 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Tert Butyl Alcohol-d9	6.998	65	95782	500.00	ug/L	0.00
4) pentafluorobenzene	9.583	168	188777	50.00	ug/L	0.00
51) 1,4-difluorobenzene	10.542	114	236778	50.00	ug/L	0.00
83) chlorobenzene-d5	13.914	117	210590	50.00	ug/L	0.00
98) 1,4-dichlorobenzene-d4	16.341	152	111128	50.00	ug/L	0.00
System Monitoring Compounds						
45) dibromofluoromethane (s)	9.573	113	9609	4.79	ug/L	0.00
Spiked Amount 50.000	Range 79 - 120		Recovery =	9.58%#		
46) 1,2-dichloroethane-d4 (s)	10.023	65	9861	4.74	ug/L	0.00
Spiked Amount 50.000	Range 72 - 123		Recovery =	9.48%#		
75) toluene-d8 (s)	12.299	98	30931	4.82	ug/L	0.00
Spiked Amount 50.000	Range 78 - 119		Recovery =	9.64%#		
100) 4-bromofluorobenzene (s)	15.151	95	12185	4.32	ug/L	0.00
Spiked Amount 50.000	Range 74 - 119		Recovery =	8.64%#		
Target Compounds						
2) 1,4-dioxane	11.292	88	3196	138.34	ug/L	# 64
3) tertiary butyl alcohol	7.135	59	6724	23.57	ug/L	91
5) chlorodifluoromethane	3.344	51	8336	3.76	ug/L	97
6) dichlorodifluoromethane	3.333	85	11945	3.88	ug/L	98
7) chloromethane	3.627	50	13831	4.01	ug/L	99
8) vinyl chloride	3.889	62	12943	4.03	ug/L	99
10) bromomethane	4.571	94	9126	3.94	ug/L	94
11) chloroethane	4.775	64	5702	4.23	ug/L	97
12) trichlorofluoromethane	5.320	101	11495	3.41	ug/L	96
14) ethyl ether	5.792	74	4302	4.23	ug/L	99
16) 2-chloropropane	5.976	43	13729	4.02	ug/L	# 89
17) acrolein	6.018	56	25859	46.96	ug/L	99
18) 1,1-dichloroethene	6.227	96	8331	4.18	ug/L	96
19) acetone	6.290	43	3346	4.50	ug/L	95
20) allyl chloride	6.825	76	4336	4.38	ug/L	91
21) acetonitrile	6.747	40	6865	51.96	ug/L	93
22) iodomethane	6.500	142	16906	4.49	ug/L	97
23) iso-butyl alcohol	9.871	41	4545	47.60	ug/L	95
24) carbon disulfide	6.647	76	32363	4.44	ug/L	98
25) methylene chloride	7.019	84	10112	4.17	ug/L	96
26) 1-chloropropane	7.077	42	15473	4.47	ug/L	95
27) methyl acetate	6.836	74	1306	3.23	ug/L	# 53
28) methyl tert butyl ether	7.460	73	25512	4.06	ug/L	99
29) trans-1,2-dichloroethene	7.470	96	9099	4.07	ug/L	96
30) di-isopropyl ether	8.188	45	28295	4.00	ug/L	83
31) ethyl tert-butyl ether	8.718	59	27043	4.17	ug/L	99
32) 2-butanone	8.943	72	1059	3.68	ug/L	# 76
33) 1,1-dichloroethane	8.115	63	16805	4.40	ug/L	97
34) chloroprene	8.262	53	10894	3.98	ug/L	100
35) acrylonitrile	7.386	53	21201	21.40	ug/L	97
36) vinyl acetate	8.157	86	978	2.87	ug/L	72
37) ethyl acetate	9.001	45	1296	2.94	ug/L	89

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
 Data File : 4d50734.D
 Acq On : 4 Aug 2014 2:41 pm
 Operator : PayalR
 Sample : ic2264-5
 Misc : MS71470,V4D2264,5,,,,,1
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 04 15:31:09 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M4D2264.M
 Quant Title : SW-846 Method 8260B/8260C
 QLast Update : Fri Jun 13 18:05:07 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
38) 2,2-dichloropropane	8.970	77	11932	4.12	ug/L	94
39) cis-1,2-dichloroethene	8.949	96	10366	4.25	ug/L	95
40) propionitrile	9.001	54	17405	43.29	ug/L	96
41) methyl acrylate	9.074	55	9409	4.13	ug/L #	92
42) bromochloromethane	9.274	128	5250	4.54	ug/L	97
43) tetrahydrofuran	9.352	42	3438	4.10	ug/L	91
44) chloroform	9.358	83	16501	4.26	ug/L	98
47) freon 113	6.238	151	5729	4.04	ug/L	97
48) methacrylonitrile	9.226	41	6368	4.00	ug/L	95
49) 1,1,1-trichloroethane	9.651	97	12213	3.97	ug/L	93
50) tert-amyl methyl ether	10.217	73	25917	4.09	ug/L	97
52) epichlorohydrin	11.853	57	5996	21.88	ug/L	96
53) n-butyl alcohol	10.684	56	19452	229.17	ug/L	96
54) cyclohexane	9.746	84	12286	4.50	ug/L	97
56) carbon tetrachloride	9.877	117	11287	4.37	ug/L	98
57) 1,1-dichloropropene	9.850	75	12167	4.42	ug/L	100
58) hexane	7.900	57	9430	4.11	ug/L	96
59) benzene	10.123	78	35733	4.43	ug/L	100
60) ISO-OCTANE	10.207	57	26412	3.79	ug/L	97
61) heptane	10.401	57	5701	4.17	ug/L	96
62) isopropyl acetate	10.107	43	18168	4.13	ug/L	99
63) 1,2-dichloroethane	10.113	62	11816	4.32	ug/L	98
64) trichloroethene	10.894	95	9184	4.15	ug/L	95
66) 2-nitropropane	11.696	43	2932	4.17	ug/L	94
67) 2-chloroethyl vinyl ether	11.759	63	34710	20.81	ug/L	99
68) methyl methacrylate	11.224	41	8706	4.11	ug/L	99
69) 1,2-dichloropropane	11.161	63	9975	4.42	ug/L	97
70) methylcyclohexane	11.161	83	13587	4.29	ug/L	97
72) dibromomethane	11.303	93	6895	4.52	ug/L	96
73) bromodichloromethane	11.460	83	12788	4.23	ug/L	95
74) cis-1,3-dichloropropene	11.969	75	15301	4.33	ug/L	98
76) 4-methyl-2-pentanone	12.105	58	4834	4.39	ug/L	98
77) toluene	12.378	92	21043	4.32	ug/L	100
78) 3-methyl-1-butanol	12.121	70	6814	84.26	ug/L	95
79) trans-1,3-dichloropropene	12.572	75	14212	4.26	ug/L	98
80) ethyl methacrylate	12.624	69	12761	3.87	ug/L	99
81) 1,1,2-trichloroethane	12.792	83	8429	4.38	ug/L	100
82) 2-hexanone	13.028	58	4661	4.41	ug/L	97
84) tetrachloroethene	13.007	166	9904	4.68	ug/L	98
85) 1,3-dichloropropane	12.991	76	14669	4.43	ug/L	99
86) butyl acetate	13.133	56	7412	4.13	ug/L	85
87) dibromochloromethane	13.264	129	10967	4.38	ug/L	97
88) 1,2-dibromoethane	13.421	107	10060	4.38	ug/L	99
90) chlorobenzene	13.945	112	24774	4.42	ug/L	98
91) 1,1,1,2-tetrachloroethane	14.013	131	9311	4.37	ug/L	97
92) ethylbenzene	14.034	91	40900	4.35	ug/L	99
93) m,p-xylene	14.150	106	30397	8.75	ug/L	100
94) o-xylene	14.595	106	15013	4.31	ug/L	99
95) styrene	14.601	104	25812	4.21	ug/L	98
97) bromoform	14.837	173	8892	4.72	ug/L	98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
 Data File : 4d50734.D
 Acq On : 4 Aug 2014 2:41 pm
 Operator : PayalR
 Sample : ic2264-5
 Misc : MS71470,V4D2264,5,,,,,1
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 04 15:31:09 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M4D2264.M
 Quant Title : SW-846 Method 8260B/8260C
 QLast Update : Fri Jun 13 18:05:07 2014
 Response via : Initial Calibration

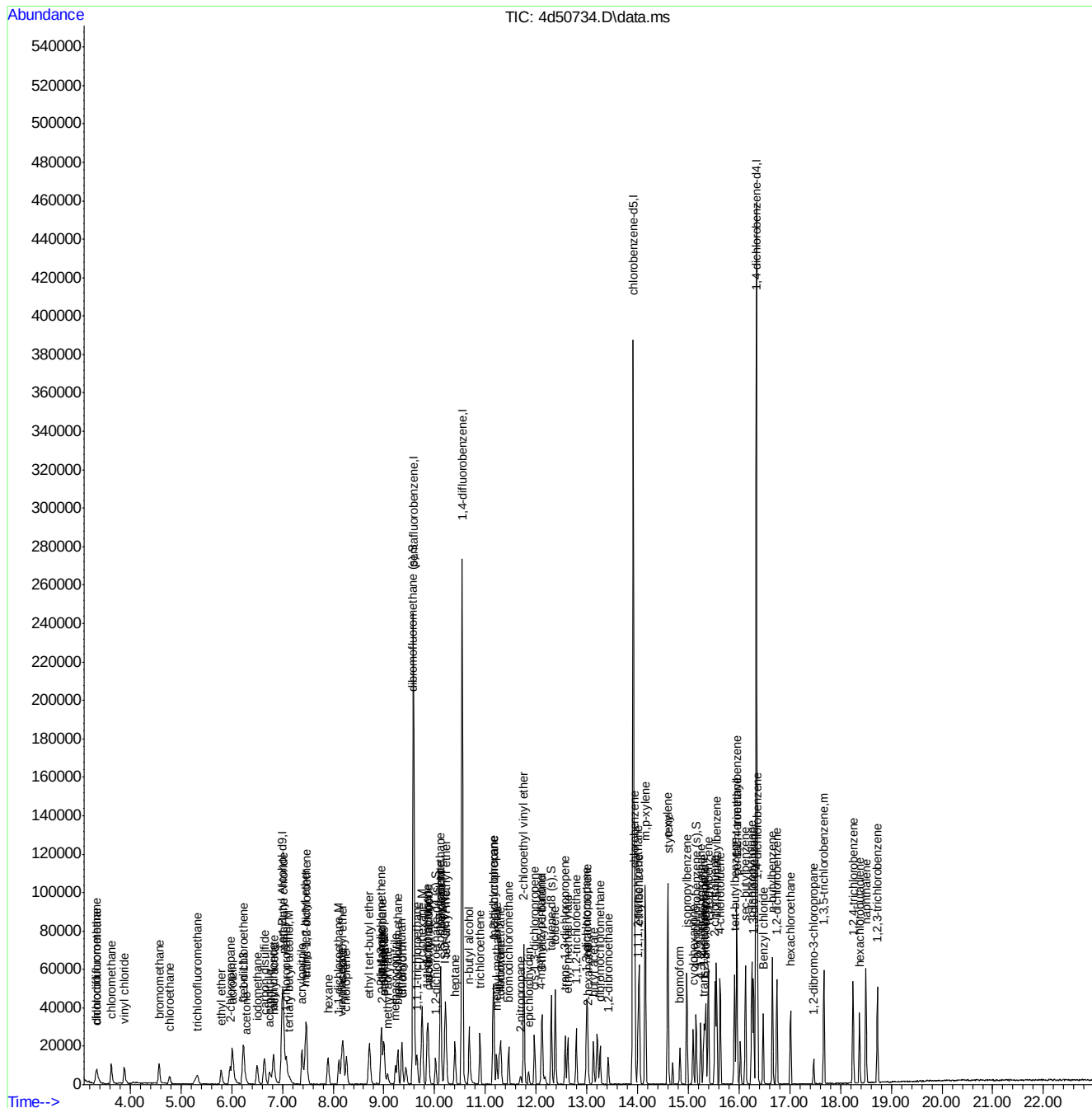
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
99)	isopropylbenzene	14.968	105	38625	4.20	ug/L	100
101)	bromobenzene	15.345	156	11664	4.54	ug/L	96
102)	cyclohexanone	15.093	55	12152	38.96	ug/L	98
103)	1,1,2,2-tetrachloroethane	15.245	83	17255	4.88	ug/L	99
104)	trans-1,4-dichloro-2-b...	15.298	53	3806	6.06	ug/L #	75
105)	1,2,3-trichloropropane	15.324	110	3700	4.74	ug/L	100
106)	n-propylbenzene	15.398	91	46089	4.20	ug/L	99
107)	2-chlorotoluene	15.523	126	10172	4.39	ug/L	95
108)	4-chlorotoluene	15.628	91	29825	4.17	ug/L	99
109)	1,3,5-trimethylbenzene	15.555	105	32600	4.06	ug/L	99
110)	tert-butylbenzene	15.911	119	26947	4.11	ug/L	99
111)	pentachloroethane	15.959	167	7091	4.11	ug/L	93
112)	1,2,4-trimethylbenzene	15.953	105	32704	4.06	ug/L	97
113)	sec-butylbenzene	16.126	105	43900	4.20	ug/L	100
114)	1,3-dichlorobenzene	16.284	146	21618	4.41	ug/L	98
115)	p-isopropyltoluene	16.252	119	35055	4.14	ug/L	98
116)	1,4-dichlorobenzene	16.362	146	21311	4.27	ug/L	99
117)	1,2-dichlorobenzene	16.745	146	21286	4.34	ug/L	98
118)	n-butylbenzene	16.656	92	19059	4.15	ug/L	97
119)	1,2-dibromo-3-chloropr...	17.474	75	3182	4.88	ug/L	97
120)	1,3,5-trichlorobenzene	17.673	180	17814	4.41	ug/L	99
121)	1,2,4-trichlorobenzene	18.244	180	16071	4.32	ug/L	98
122)	hexachlorobutadiene	18.376	225	7927	4.30	ug/L	95
123)	naphthalene	18.501	128	44010	4.52	ug/L	99
124)	1,2,3-trichlorobenzene	18.727	180	15852	4.41	ug/L	97
125)	hexachloroethane	17.012	119	7612	4.02	ug/L	96
126)	Benzyl chloride	16.478	91	25131	4.07	ug/L	99

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 4d50734.D
Acq On : 4 Aug 2014 2:41 pm
Operator : PayalR
Sample : ic2264-5
Misc : MS71470,V4D2264,5,,,,,1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 04 15:31:09 2014
Quant Method : C:\MSDCHEM\1\METHODS\M4D2264.M
Quant Title : SW-846 Method 8260B/8260C
QLast Update : Fri Jun 13 18:05:07 2014
Response via : Initial Calibration



M4D2264.M Tue Aug 05 11:34:52 2014 RPT1

Page: 4

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Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
 Data File : 4d50735.D
 Acq On : 4 Aug 2014 3:08 pm
 Operator : PayalR
 Sample : ic2264-10
 Misc : MS71470,V4D2264,5,,,,,1
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 04 15:33:08 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M4D2264.M
 Quant Title : SW-846 Method 8260B/8260C
 QLast Update : Fri Jun 13 18:05:07 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Tert Butyl Alcohol-d9	6.988	65	93003	500.00	ug/L	-0.01
4) pentafluorobenzene	9.583	168	185690	50.00	ug/L	0.00
51) 1,4-difluorobenzene	10.537	114	233497	50.00	ug/L	0.00
83) chlorobenzene-d5	13.914	117	209796	50.00	ug/L	0.00
98) 1,4-dichlorobenzene-d4	16.341	152	111276	50.00	ug/L	0.00
System Monitoring Compounds						
45) dibromofluoromethane (s)	9.567	113	19424	9.84	ug/L	0.00
Spiked Amount 50.000	Range 79 - 120		Recovery =	19.68%#		
46) 1,2-dichloroethane-d4 (s)	10.018	65	20034	9.80	ug/L	0.00
Spiked Amount 50.000	Range 72 - 123		Recovery =	19.60%#		
75) toluene-d8 (s)	12.299	98	62852	9.92	ug/L	0.00
Spiked Amount 50.000	Range 78 - 119		Recovery =	19.84%#		
100) 4-bromofluorobenzene (s)	15.151	95	25024	8.85	ug/L	0.00
Spiked Amount 50.000	Range 74 - 119		Recovery =	17.70%#		
Target Compounds						
2) 1,4-dioxane	11.287	88	6304	281.02	ug/L	# 70
3) tertiary butyl alcohol	7.124	59	12888	46.52	ug/L	91
5) chlorodifluoromethane	3.328	51	17170	7.87	ug/L	99
6) dichlorodifluoromethane	3.323	85	22353	7.38	ug/L	98
7) chloromethane	3.622	50	26856	7.92	ug/L	97
8) vinyl chloride	3.878	62	24926	7.89	ug/L	99
10) bromomethane	4.560	94	17380	7.63	ug/L	96
11) chloroethane	4.765	64	11357	8.57	ug/L	99
12) trichlorofluoromethane	5.320	101	21893	6.61	ug/L	99
14) ethyl ether	5.782	74	9705	9.71	ug/L	92
16) 2-chloropropane	5.965	43	29003	8.63	ug/L	100
17) acrolein	6.007	56	48867	90.22	ug/L	97
18) 1,1-dichloroethene	6.222	96	17855	9.11	ug/L	94
19) acetone	6.280	43	6890	9.43	ug/L	98
20) allyl chloride	6.820	76	9797	10.05	ug/L	# 85
21) acetonitrile	6.731	40	13152	101.20	ug/L	97
22) iodomethane	6.490	142	36581	9.88	ug/L	99
23) iso-butyl alcohol	9.871	41	8702	92.65	ug/L	97
24) carbon disulfide	6.636	76	67564	9.43	ug/L	99
25) methylene chloride	7.014	84	21048	8.82	ug/L	98
26) 1-chloropropane	7.077	42	31761	9.32	ug/L	95
27) methyl acetate	6.825	74	3275	8.23	ug/L	99
28) methyl tert butyl ether	7.454	73	55095	8.91	ug/L	98
29) trans-1,2-dichloroethene	7.465	96	19495	8.87	ug/L	97
30) di-isopropyl ether	8.183	45	58845	8.46	ug/L	87
31) ethyl tert-butyl ether	8.713	59	55445	8.69	ug/L	99
32) 2-butanone	8.933	72	2651	9.37	ug/L	# 90
33) 1,1-dichloroethane	8.110	63	36354	9.68	ug/L	99
34) chloroprene	8.256	53	23010	8.54	ug/L	99
35) acrylonitrile	7.376	53	45789	46.98	ug/L	98
36) vinyl acetate	8.146	86	2799	8.35	ug/L	80
37) ethyl acetate	8.990	45	2965	6.84	ug/L	84

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
 Data File : 4d50735.D
 Acq On : 4 Aug 2014 3:08 pm
 Operator : PayalR
 Sample : ic2264-10
 Misc : MS71470,V4D2264,5,,,1
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 04 15:33:08 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M4D2264.M
 Quant Title : SW-846 Method 8260B/8260C
 QLast Update : Fri Jun 13 18:05:07 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
38) 2,2-dichloropropane	8.964	77	25034	8.79	ug/L	97
39) cis-1,2-dichloroethene	8.943	96	21505	8.96	ug/L	99
40) propionitrile	8.996	54	37567	94.98	ug/L	98
41) methyl acrylate	9.064	55	21382	9.54	ug/L #	95
42) bromochloromethane	9.274	128	11271	9.91	ug/L	95
43) tetrahydrofuran	9.342	42	7344	8.90	ug/L	96
44) chloroform	9.352	83	34547	9.06	ug/L	98
47) freon 113	6.243	151	11214	8.03	ug/L	96
48) methacrylonitrile	9.221	41	13951	8.92	ug/L	92
49) 1,1,1-trichloroethane	9.646	97	25862	8.56	ug/L	94
50) tert-amyl methyl ether	10.217	73	53551	8.58	ug/L	98
52) epichlorohydrin	11.848	57	12190	45.11	ug/L	94
53) n-butyl alcohol	10.679	56	37333	446.01	ug/L	99
54) cyclohexane	9.745	84	24776	9.21	ug/L	99
56) carbon tetrachloride	9.871	117	24446	9.59	ug/L	97
57) 1,1-dichloropropene	9.845	75	26052	9.60	ug/L	99
58) hexane	7.895	57	18417	8.14	ug/L	99
59) benzene	10.118	78	76421	9.60	ug/L	99
60) ISO-OCTANE	10.207	57	51459	7.48	ug/L	96
61) heptane	10.401	57	11767	8.72	ug/L	97
62) isopropyl acetate	10.107	43	38079	8.78	ug/L	99
63) 1,2-dichloroethane	10.112	62	25306	9.39	ug/L	99
64) trichloroethene	10.894	95	20160	9.25	ug/L	97
66) 2-nitropropane	11.691	43	6025	8.69	ug/L	88
67) 2-chloroethyl vinyl ether	11.754	63	73490	44.68	ug/L	99
68) methyl methacrylate	11.219	41	18483	8.85	ug/L	96
69) 1,2-dichloropropane	11.161	63	21275	9.56	ug/L	100
70) methylcyclohexane	11.156	83	26251	8.41	ug/L	98
72) dibromomethane	11.303	93	14793	9.84	ug/L	95
73) bromodichloromethane	11.455	83	26985	9.05	ug/L	98
74) cis-1,3-dichloropropene	11.968	75	33188	9.52	ug/L	97
76) 4-methyl-2-pentanone	12.105	58	10002	9.20	ug/L	99
77) toluene	12.372	92	45186	9.40	ug/L	97
78) 3-methyl-1-butanol	12.121	70	13164	165.07	ug/L	96
79) trans-1,3-dichloropropene	12.571	75	30877	9.38	ug/L	99
80) ethyl methacrylate	12.619	69	27674	8.52	ug/L	98
81) 1,1,2-trichloroethane	12.792	83	17955	9.46	ug/L	99
82) 2-hexanone	13.022	58	9542	9.15	ug/L	100
84) tetrachloroethene	13.007	166	21013	9.96	ug/L	98
85) 1,3-dichloropropane	12.991	76	31297	9.48	ug/L	99
86) butyl acetate	13.127	56	15034	8.41	ug/L	98
87) dibromochloromethane	13.264	129	23923	9.59	ug/L	98
88) 1,2-dibromoethane	13.421	107	21592	9.43	ug/L	99
90) chlorobenzene	13.945	112	53654	9.61	ug/L	99
91) 1,1,1,2-tetrachloroethane	14.008	131	20209	9.52	ug/L	95
92) ethylbenzene	14.034	91	87075	9.30	ug/L	100
93) m,p-xylene	14.155	106	65543	18.95	ug/L	92
94) o-xylene	14.590	106	33116	9.55	ug/L	93
95) styrene	14.601	104	55379	9.06	ug/L	99
97) bromoform	14.836	173	18900	10.06	ug/L	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
 Data File : 4d50735.D
 Acq On : 4 Aug 2014 3:08 pm
 Operator : PayalR
 Sample : ic2264-10
 Misc : MS71470,V4D2264,5,,,,,1
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 04 15:33:08 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M4D2264.M
 Quant Title : SW-846 Method 8260B/8260C
 QLast Update : Fri Jun 13 18:05:07 2014
 Response via : Initial Calibration

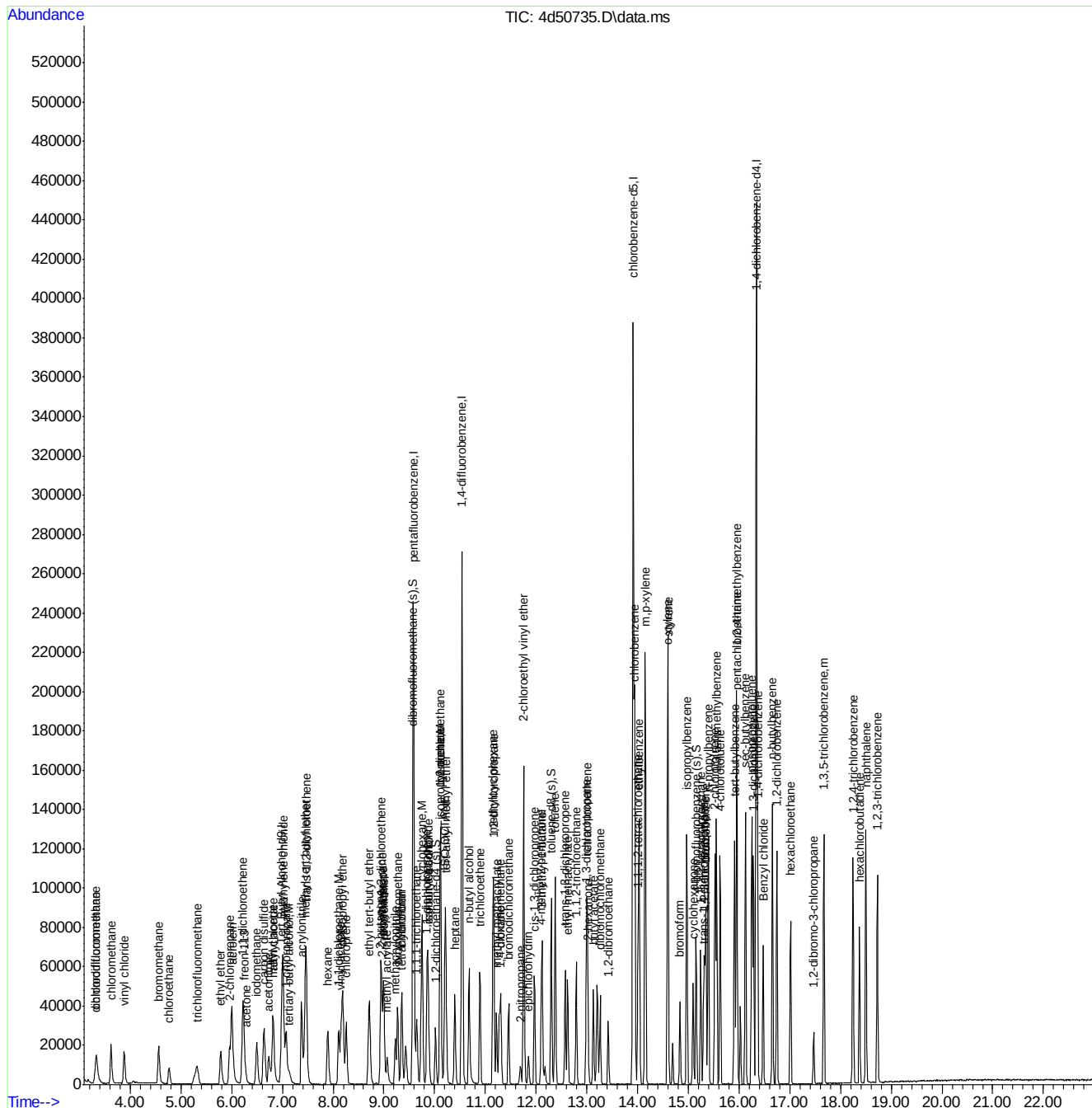
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
99)	isopropylbenzene	14.967	105	83933	9.11	ug/L	100
101)	bromobenzene	15.345	156	24382	9.47	ug/L	95
102)	cyclohexanone	15.093	55	21814	69.85	ug/L	98
103)	1,1,2,2-tetrachloroethane	15.245	83	35167	9.93	ug/L	98
104)	trans-1,4-dichloro-2-b...	15.298	53	7679	12.22	ug/L #	79
105)	1,2,3-trichloropropane	15.319	110	7547	9.65	ug/L	98
106)	n-propylbenzene	15.397	91	99162	9.02	ug/L	99
107)	2-chlorotoluene	15.523	126	21599	9.32	ug/L	100
108)	4-chlorotoluene	15.628	91	63369	8.86	ug/L	97
109)	1,3,5-trimethylbenzene	15.555	105	70086	8.72	ug/L	99
110)	tert-butylbenzene	15.911	119	59481	9.05	ug/L	100
111)	pentachloroethane	15.958	167	15266	8.84	ug/L	96
112)	1,2,4-trimethylbenzene	15.953	105	69706	8.63	ug/L	97
113)	sec-butylbenzene	16.126	105	93737	8.95	ug/L	100
114)	1,3-dichlorobenzene	16.284	146	45106	9.19	ug/L	98
115)	p-isopropyltoluene	16.252	119	75441	8.89	ug/L	99
116)	1,4-dichlorobenzene	16.367	146	46052	9.21	ug/L	99
117)	1,2-dichlorobenzene	16.745	146	45076	9.18	ug/L	99
118)	n-butylbenzene	16.656	92	41169	8.94	ug/L	96
119)	1,2-dibromo-3-chloropr...	17.468	75	6306	9.66	ug/L	95
120)	1,3,5-trichlorobenzene	17.673	180	37592	9.29	ug/L	100
121)	1,2,4-trichlorobenzene	18.244	180	34520	9.27	ug/L	98
122)	hexachlorobutadiene	18.375	225	16566	8.98	ug/L	96
123)	naphthalene	18.501	128	93602	9.59	ug/L	100
124)	1,2,3-trichlorobenzene	18.727	180	34228	9.51	ug/L	99
125)	hexachloroethane	17.012	119	16853	8.89	ug/L	98
126)	Benzyl chloride	16.477	91	49130	7.94	ug/L	99

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
 Data File : 4d50735.D
 Acq On : 4 Aug 2014 3:08 pm
 Operator : PayalR
 Sample : ic2264-10
 Misc : MS71470,V4D2264,5,,,,,1
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 04 15:33:08 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M4D2264.M
 Quant Title : SW-846 Method 8260B/8260C
 QLast Update : Fri Jun 13 18:05:07 2014
 Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
 Data File : 4d50736.D
 Acq On : 4 Aug 2014 3:35 pm
 Operator : PayalR
 Sample : ic2264-20
 Misc : MS71470,V4D2264,5,,,,,1
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 04 17:14:57 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M4D2264.M
 Quant Title : SW-846 Method 8260B/8260C
 QLast Update : Mon Aug 04 15:34:49 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Tert Butyl Alcohol-d9	6.993	65	95505	500.00	ug/L	0.00
4) pentafluorobenzene	9.583	168	188702	50.00	ug/L	0.00
51) 1,4-difluorobenzene	10.537	114	236372	50.00	ug/L	0.00
83) chlorobenzene-d5	13.914	117	211744	50.00	ug/L	0.00
98) 1,4-dichlorobenzene-d4	16.341	152	113009	50.00	ug/L	0.00
System Monitoring Compounds						
45) dibromofluoromethane (s)	9.562	113	96586	40.98	ug/L	0.00
Spiked Amount 50.000	Range 79 - 120		Recovery =	81.96%		
46) 1,2-dichloroethane-d4 (s)	10.013	65	101293	42.53	ug/L	0.00
Spiked Amount 50.000	Range 72 - 123		Recovery =	85.06%		
75) toluene-d8 (s)	12.299	98	314180	47.67	ug/L	0.00
Spiked Amount 50.000	Range 78 - 119		Recovery =	95.34%		
100) 4-bromofluorobenzene (s)	15.151	95	121873	33.00	ug/L	0.00
Spiked Amount 50.000	Range 74 - 119		Recovery =	66.00%#		
Target Compounds						
2) 1,4-dioxane	11.282	88	14575	645.19	ug/L	64
3) tertiary butyl alcohol	7.129	59	29805	115.29	ug/L	97
5) chlorodifluoromethane	3.333	51	33535	21.26	ug/L	99
6) dichlorodifluoromethane	3.323	85	48470	23.43	ug/L	99
7) chloromethane	3.627	50	56062	22.31	ug/L	99
8) vinyl chloride	3.889	62	51971	21.75	ug/L	99
10) bromomethane	4.560	94	36637	22.07	ug/L	96
11) chloroethane	4.765	64	23146	22.41	ug/L	98
12) trichlorofluoromethane	5.315	101	48260	23.58	ug/L	99
14) ethyl ether	5.782	74	18974	21.66	ug/L	98
16) 2-chloropropane	5.965	43	54443	20.19	ug/L	99
17) acrolein	6.002	56	102286	196.16	ug/L	99
18) 1,1-dichloroethene	6.222	96	33442	21.16	ug/L	98
19) acetone	6.275	43	13440	19.63	ug/L	97
20) allyl chloride	6.815	76	16831	19.04	ug/L	88
21) acetonitrile	6.726	40	28298	218.89	ug/L	96
22) iodomethane	6.495	142	67702	22.50	ug/L	99
23) iso-butyl alcohol	9.866	41	20011	221.98	ug/L	97
24) carbon disulfide	6.636	76	126286	20.39	ug/L	99
25) methylene chloride	7.009	84	40496	21.70	ug/L	100
26) 1-chloropropane	7.077	42	59535	19.75	ug/L	95
27) methyl acetate	6.820	74	7099	23.91	ug/L	94
28) methyl tert butyl ether	7.454	73	107597	23.25	ug/L	99
29) trans-1,2-dichloroethene	7.465	96	36429	22.72	ug/L	98
30) di-isopropyl ether	8.183	45	118243	24.13	ug/L	91
31) ethyl tert-butyl ether	8.713	59	115977	24.85	ug/L	99
32) 2-butanone	8.928	72	5432	22.58	ug/L	98
33) 1,1-dichloroethane	8.110	63	68578	22.55	ug/L	99
34) chloroprene	8.257	53	45824	23.31	ug/L	97
35) acrylonitrile	7.370	53	92263	127.14	ug/L	100
36) vinyl acetate	8.146	86	5908	24.62	ug/L	96
37) ethyl acetate	8.985	45	6455	23.04	ug/L	97

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
 Data File : 4d50736.D
 Acq On : 4 Aug 2014 3:35 pm
 Operator : PayalR
 Sample : ic2264-20
 Misc : MS71470,V4D2264,5,,,1
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 04 17:14:57 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M4D2264.M
 Quant Title : SW-846 Method 8260B/8260C
 QLast Update : Mon Aug 04 15:34:49 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
38) 2,2-dichloropropane	8.964	77	47026	20.64	ug/L	99
39) cis-1,2-dichloroethene	8.943	96	40932	22.29	ug/L	100
40) propionitrile	8.996	54	75614	219.89	ug/L	98
41) methyl acrylate	9.059	55	42155	21.15	ug/L	98
42) bromochloromethane	9.268	128	21895	22.61	ug/L	99
43) tetrahydrofuran	9.337	42	14518	20.66	ug/L	99
44) chloroform	9.352	83	65671	21.26	ug/L	99
47) freon 113	6.233	151	22520	21.46	ug/L	97
48) methacrylonitrile	9.221	41	27887	23.81	ug/L	98
49) 1,1,1-trichloroethane	9.646	97	48802	21.28	ug/L	98
50) tert-amyl methyl ether	10.217	73	112385	24.65	ug/L	99
52) epichlorohydrin	11.848	57	28240	128.35	ug/L	100
53) n-butyl alcohol	10.674	56	84057	1119.91	ug/L	98
54) cyclohexane	9.746	84	48240	24.05	ug/L	98
56) carbon tetrachloride	9.877	117	45398	23.03	ug/L	99
57) 1,1-dichloropropene	9.850	75	48172	22.39	ug/L	98
58) hexane	7.895	57	37394	22.98	ug/L	99
59) benzene	10.118	78	143273	22.39	ug/L	99
60) ISO-OCTANE	10.207	57	103446	22.19	ug/L	95
61) heptane	10.396	57	23526	23.18	ug/L	96
62) isopropyl acetate	10.102	43	83742	25.95	ug/L	99
63) 1,2-dichloroethane	10.113	62	49459	21.97	ug/L	98
64) trichloroethene	10.894	95	37160	22.45	ug/L	98
66) 2-nitropropane	11.691	43	12210	9.56	ug/L	98
67) 2-chloroethyl vinyl ether	11.754	63	161744	135.03	ug/L	99
68) methyl methacrylate	11.214	41	36824	24.38	ug/L	98
69) 1,2-dichloropropane	11.156	63	41093	22.99	ug/L	100
70) methylcyclohexane	11.156	83	53484	25.19	ug/L	97
72) dibromomethane	11.303	93	28775	21.75	ug/L	96
73) bromodichloromethane	11.455	83	52743	22.09	ug/L	98
74) cis-1,3-dichloropropene	11.969	75	64599	23.11	ug/L	98
76) 4-methyl-2-pentanone	12.100	58	19579	20.23	ug/L	97
77) toluene	12.372	92	85116	22.57	ug/L	99
78) 3-methyl-1-butanol	12.121	70	29949	439.66	ug/L	99
79) trans-1,3-dichloropropene	12.572	75	60255	21.95	ug/L	98
80) ethyl methacrylate	12.619	69	53756	21.02	ug/L	99
81) 1,1,2-trichloroethane	12.792	83	34250	20.33	ug/L	99
82) 2-hexanone	13.022	58	18494	18.96	ug/L	99
84) tetrachloroethene	13.007	166	39091	21.99	ug/L	98
85) 1,3-dichloropropane	12.991	76	60921	21.52	ug/L	99
86) butyl acetate	13.127	56	32046	22.73	ug/L	98
87) dibromochloromethane	13.264	129	46176	21.03	ug/L	99
88) 1,2-dibromoethane	13.421	107	42237	21.60	ug/L	99
90) chlorobenzene	13.945	112	101193	21.31	ug/L	98
91) 1,1,1,2-tetrachloroethane	14.013	131	37977	20.49	ug/L	99
92) ethylbenzene	14.029	91	164945	21.90	ug/L	99
93) m,p-xylene	14.150	106	124650	45.42	ug/L	99
94) o-xylene	14.595	106	63578	22.00	ug/L	96
95) styrene	14.601	104	108044	22.36	ug/L	97
97) bromoform	14.837	173	36260	19.34	ug/L	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 4d50736.D
Acq On : 4 Aug 2014 3:35 pm
Operator : PayalR
Sample : ic2264-20
Misc : MS71470,V4D2264,5,,,,,1
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 04 17:14:57 2014
Quant Method : C:\MSDCHEM\1\METHODS\M4D2264.M
Quant Title : SW-846 Method 8260B/8260C
QLast Update : Mon Aug 04 15:34:49 2014
Response via : Initial Calibration

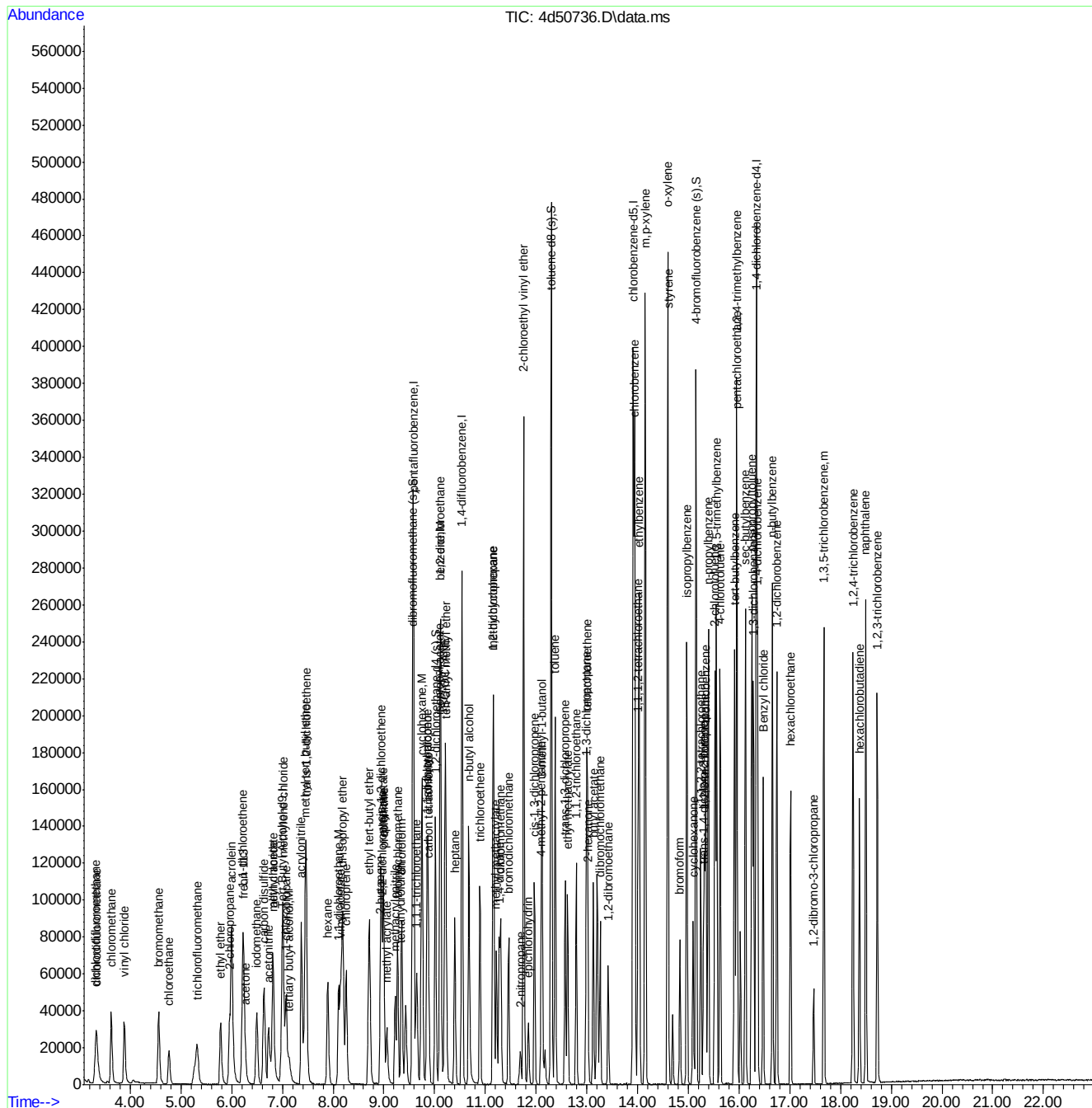
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
99)	isopropylbenzene	14.968	105	156317	21.72	ug/L	99
101)	bromobenzene	15.345	156	46114	20.01	ug/L	92
102)	cyclohexanone	15.093	55	38701	131.34	ug/L	98
103)	1,1,2,2-tetrachloroethane	15.246	83	65659	16.25	ug/L	99
104)	trans-1,4-dichloro-2-b...	15.298	53	14971	18.21	ug/L	87
105)	1,2,3-trichloropropane	15.319	110	14255	17.99	ug/L	97
106)	n-propylbenzene	15.398	91	187482	21.75	ug/L	98
107)	2-chlorotoluene	15.523	126	41187	21.07	ug/L	98
108)	4-chlorotoluene	15.628	91	120340	20.51	ug/L	99
109)	1,3,5-trimethylbenzene	15.555	105	134221	21.98	ug/L	100
110)	tert-butylbenzene	15.911	119	111682	21.49	ug/L	99
111)	pentachloroethane	15.959	167	29397	20.47	ug/L	98
112)	1,2,4-trimethylbenzene	15.953	105	133615	21.54	ug/L	97
113)	sec-butylbenzene	16.126	105	178796	22.09	ug/L	100
114)	1,3-dichlorobenzene	16.284	146	85470	19.91	ug/L	98
115)	p-isopropyltoluene	16.252	119	144595	22.48	ug/L	99
116)	1,4-dichlorobenzene	16.362	146	86819	19.09	ug/L	99
117)	1,2-dichlorobenzene	16.745	146	85583	19.56	ug/L	99
118)	n-butylbenzene	16.656	92	78454	22.39	ug/L	99
119)	1,2-dibromo-3-chloropr...	17.469	75	11921	17.00	ug/L	96
120)	1,3,5-trichlorobenzene	17.673	180	72632	21.18	ug/L	99
121)	1,2,4-trichlorobenzene	18.245	180	68252	21.18	ug/L	99
122)	hexachlorobutadiene	18.376	225	31937	21.89	ug/L	96
123)	naphthalene	18.496	128	185352	18.98	ug/L	99
124)	1,2,3-trichlorobenzene	18.727	180	67106	20.58	ug/L	98
125)	hexachloroethane	17.012	119	32330	21.33	ug/L	100
126)	Benzyl chloride	16.478	91	111732	22.76	ug/L	99

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 4d50736.D
Acq On : 4 Aug 2014 3:35 pm
Operator : PayalR
Sample : ic2264-20
Misc : MS71470,V4D2264,5,,,,,1
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 04 17:14:57 2014
Quant Method : C:\MSDCHEM\1\METHODS\M4D2264.M
Quant Title : SW-846 Method 8260B/8260C
QLast Update : Mon Aug 04 15:34:49 2014
Response via : Initial Calibration



M4D2264.M Tue Aug 05 11:35:04 2014 RPT1

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Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
 Data File : 4d50737.D
 Acq On : 4 Aug 2014 4:03 pm
 Operator : PayalR
 Sample : ic2264-50
 Misc : MS71470,V4D2264,5,,,,,1
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 04 16:26:51 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M4D2264.M
 Quant Title : SW-846 Method 8260B/8260C
 QLast Update : Mon Aug 04 15:34:49 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Tert Butyl Alcohol-d9	6.998	65	100011	500.00	ug/L	0.00
4) pentafluorobenzene	9.583	168	190256	50.00	ug/L	0.00
51) 1,4-difluorobenzene	10.537	114	240255	50.00	ug/L	0.00
83) chlorobenzene-d5	13.914	117	215589	50.00	ug/L	0.00
98) 1,4-dichlorobenzene-d4	16.341	152	115420	50.00	ug/L	0.00
System Monitoring Compounds						
45) dibromofluoromethane (s)	9.567	113	95348	40.12	ug/L	0.00
Spiked Amount 50.000	Range 79 - 120		Recovery =	80.24%		
46) 1,2-dichloroethane-d4 (s)	10.018	65	100149	41.70	ug/L	0.00
Spiked Amount 50.000	Range 72 - 123		Recovery =	83.40%		
75) toluene-d8 (s)	12.299	98	316554	47.25	ug/L	0.00
Spiked Amount 50.000	Range 78 - 119		Recovery =	94.50%		
100) 4-bromofluorobenzene (s)	15.151	95	123567	32.76	ug/L	0.00
Spiked Amount 50.000	Range 74 - 119		Recovery =	65.52%#		
Target Compounds						
					Qvalue	
2) 1,4-dioxane	11.282	88	35540	1502.36	ug/L	# 61
3) tertiary butyl alcohol	7.135	59	70948	262.06	ug/L	98
5) chlorodifluoromethane	3.333	51	90247	56.74	ug/L	98
6) dichlorodifluoromethane	3.328	85	127508	61.15	ug/L	99
7) chloromethane	3.637	50	143805	56.77	ug/L	100
8) vinyl chloride	3.894	62	135362	56.17	ug/L	99
10) bromomethane	4.560	94	90858	54.28	ug/L	99
11) chloroethane	4.765	64	58752	56.41	ug/L	98
12) trichlorofluoromethane	5.320	101	125579	60.86	ug/L	100
14) ethyl ether	5.782	74	49637	56.20	ug/L	99
16) 2-chloropropane	5.965	43	140001	51.50	ug/L	99
17) acrolein	6.002	56	250758	476.95	ug/L	99
18) 1,1-dichloroethene	6.222	96	85964	53.96	ug/L	99
19) acetone	6.264	43	35131	50.90	ug/L	95
20) allyl chloride	6.815	76	43588	48.89	ug/L	87
21) acetonitrile	6.720	40	70882	543.80	ug/L	97
22) iodomethane	6.495	142	177215	58.43	ug/L	98
23) iso-butyl alcohol	9.866	41	45573	501.41	ug/L	99
24) carbon disulfide	6.636	76	323512	51.82	ug/L	98
25) methylene chloride	7.014	84	102892	54.69	ug/L	99
26) 1-chloropropane	7.077	42	146173	48.11	ug/L	99
27) methyl acetate	6.820	74	18877	63.05	ug/L	98
28) methyl tert butyl ether	7.460	73	275671	59.08	ug/L	99
29) trans-1,2-dichloroethene	7.465	96	94235	58.30	ug/L	98
30) di-isopropyl ether	8.188	45	299207	60.56	ug/L	99
31) ethyl tert-butyl ether	8.713	59	292928	62.26	ug/L	98
32) 2-butanone	8.922	72	14122	58.23	ug/L	98
33) 1,1-dichloroethane	8.110	63	174069	56.77	ug/L	99
34) chloroprene	8.257	53	117971	59.51	ug/L	99
35) acrylonitrile	7.370	53	233334	318.92	ug/L	98
36) vinyl acetate	8.146	86	16213	67.01	ug/L	92
37) ethyl acetate	8.991	45	16308	57.73	ug/L	95

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
 Data File : 4d50737.D
 Acq On : 4 Aug 2014 4:03 pm
 Operator : PayalR
 Sample : ic2264-50
 Misc : MS71470,V4D2264,5,,,1
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 04 16:26:51 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M4D2264.M
 Quant Title : SW-846 Method 8260B/8260C
 QLast Update : Mon Aug 04 15:34:49 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
38) 2,2-dichloropropane	8.964	77	120215	52.33	ug/L	99
39) cis-1,2-dichloroethene	8.943	96	104866	56.63	ug/L	98
40) propionitrile	8.991	54	191259	551.65	ug/L	99
41) methyl acrylate	9.059	55	108173	53.82	ug/L #	98
42) bromochloromethane	9.268	128	55602	56.95	ug/L	98
43) tetrahydrofuran	9.337	42	36535	51.58	ug/L	99
44) chloroform	9.352	83	165759	53.22	ug/L	100
47) freon 113	6.238	151	60743	57.42	ug/L	99
48) methacrylonitrile	9.216	41	71853	60.84	ug/L	98
49) 1,1,1-trichloroethane	9.651	97	124987	54.05	ug/L	99
50) tert-amyl methyl ether	10.217	73	279394	60.78	ug/L	99
52) epichlorohydrin	11.848	57	64849	289.98	ug/L	97
53) n-butyl alcohol	10.674	56	203625	2669.10	ug/L	98
54) cyclohexane	9.746	84	123611	60.64	ug/L	97
56) carbon tetrachloride	9.871	117	116918	58.36	ug/L	99
57) 1,1-dichloropropene	9.850	75	125595	57.43	ug/L	99
58) hexane	7.895	57	99169	59.95	ug/L	99
59) benzene	10.118	78	365907	56.26	ug/L	99
60) ISO-OCTANE	10.207	57	268671	56.70	ug/L	98
61) heptane	10.401	57	63242	61.30	ug/L	98
62) isopropyl acetate	10.102	43	203563	62.06	ug/L	100
63) 1,2-dichloroethane	10.113	62	125655	54.92	ug/L	99
64) trichloroethene	10.894	95	96793	57.54	ug/L	97
66) 2-nitropropane	11.691	43	31866	24.56	ug/L	99
67) 2-chloroethyl vinyl ether	11.754	63	398030	326.92	ug/L	100
68) methyl methacrylate	11.214	41	95871	62.45	ug/L	99
69) 1,2-dichloropropane	11.156	63	105165	57.88	ug/L	99
70) methylcyclohexane	11.156	83	140984	65.32	ug/L	99
72) dibromomethane	11.303	93	73234	54.46	ug/L	96
73) bromodichloromethane	11.460	83	133229	54.90	ug/L	99
74) cis-1,3-dichloropropene	11.969	75	166289	58.52	ug/L	97
76) 4-methyl-2-pentanone	12.100	58	50805	51.64	ug/L	98
77) toluene	12.378	92	218857	57.10	ug/L	100
78) 3-methyl-1-butanol	12.115	70	72089	1041.18	ug/L	99
79) trans-1,3-dichloropropene	12.572	75	155279	55.66	ug/L	97
80) ethyl methacrylate	12.619	69	140816	54.18	ug/L	100
81) 1,1,2-trichloroethane	12.792	83	87312	50.98	ug/L	99
82) 2-hexanone	13.022	58	49530	49.97	ug/L	96
84) tetrachloroethene	13.007	166	101539	56.10	ug/L	98
85) 1,3-dichloropropane	12.991	76	156930	54.45	ug/L	99
86) butyl acetate	13.127	56	79402	55.33	ug/L	97
87) dibromochloromethane	13.264	129	117890	52.74	ug/L	99
88) 1,2-dibromoethane	13.421	107	109251	54.86	ug/L	99
90) chlorobenzene	13.945	112	261577	54.10	ug/L	99
91) 1,1,1,2-tetrachloroethane	14.013	131	97787	51.82	ug/L	99
92) ethylbenzene	14.034	91	423472	55.23	ug/L	100
93) m,p-xylene	14.150	106	319867	114.48	ug/L	99
94) o-xylene	14.595	106	163792	55.66	ug/L	96
95) styrene	14.601	104	279335	56.79	ug/L	97
97) bromoform	14.837	173	95136	49.83	ug/L	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
 Data File : 4d50737.D
 Acq On : 4 Aug 2014 4:03 pm
 Operator : PayalR
 Sample : ic2264-50
 Misc : MS71470,V4D2264,5,,,,,1
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 04 16:26:51 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M4D2264.M
 Quant Title : SW-846 Method 8260B/8260C
 QLast Update : Mon Aug 04 15:34:49 2014
 Response via : Initial Calibration

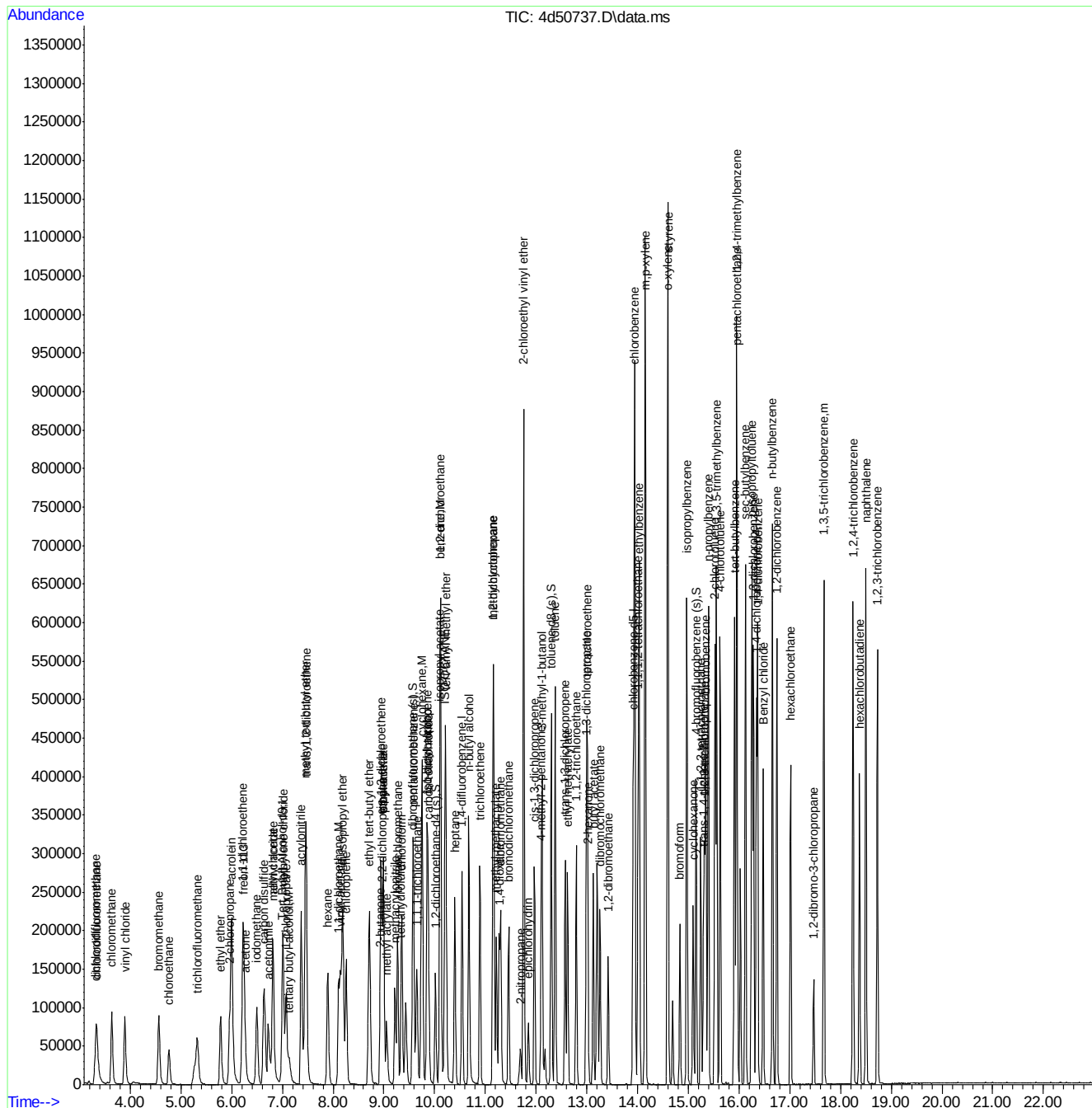
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
99)	isopropylbenzene	14.968	105	410495	55.84	ug/L	100
101)	bromobenzene	15.345	156	119145	50.62	ug/L	98
102)	cyclohexanone	15.093	55	100711	334.65	ug/L	98
103)	1,1,2,2-tetrachloroethane	15.246	83	166739	40.40	ug/L	99
104)	trans-1,4-dichloro-2-b...	15.298	53	38848	46.26	ug/L	85
105)	1,2,3-trichloropropane	15.319	110	36736	45.39	ug/L	98
106)	n-propylbenzene	15.398	91	483129	54.88	ug/L	99
107)	2-chlorotoluene	15.523	126	106787	53.48	ug/L	96
108)	4-chlorotoluene	15.628	91	309201	51.59	ug/L	98
109)	1,3,5-trimethylbenzene	15.555	105	346383	55.54	ug/L	99
110)	tert-butylbenzene	15.911	119	295047	55.59	ug/L	99
111)	pentachloroethane	15.959	167	78268	53.37	ug/L	98
112)	1,2,4-trimethylbenzene	15.953	105	350238	55.29	ug/L	97
113)	sec-butylbenzene	16.126	105	465822	56.35	ug/L	100
114)	1,3-dichlorobenzene	16.284	146	219475	50.06	ug/L	98
115)	p-isopropyltoluene	16.252	119	372349	56.68	ug/L	99
116)	1,4-dichlorobenzene	16.368	146	221661	47.71	ug/L	98
117)	1,2-dichlorobenzene	16.745	146	220608	49.36	ug/L	99
118)	n-butylbenzene	16.656	92	207573	58.00	ug/L	99
119)	1,2-dibromo-3-chloropr...	17.469	75	30710	42.89	ug/L	98
120)	1,3,5-trichlorobenzene	17.673	180	191829	54.78	ug/L	100
121)	1,2,4-trichlorobenzene	18.245	180	180766	54.93	ug/L	99
122)	hexachlorobutadiene	18.376	225	85450	57.35	ug/L	96
123)	naphthalene	18.501	128	486996	48.82	ug/L	100
124)	1,2,3-trichlorobenzene	18.727	180	175589	52.73	ug/L	99
125)	hexachloroethane	17.018	119	85522	55.25	ug/L	98
126)	Benzyl chloride	16.478	91	276345	55.11	ug/L	99

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 4d50737.D
Acq On : 4 Aug 2014 4:03 pm
Operator : PayalR
Sample : ic2264-50
Misc : MS71470,V4D2264,5,,,,,1
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 04 16:26:51 2014
Quant Method : C:\MSDCHEM\1\METHODS\M4D2264.M
Quant Title : SW-846 Method 8260B/8260C
QLast Update : Mon Aug 04 15:34:49 2014
Response via : Initial Calibration



M4D2264.M Tue Aug 05 11:35:10 2014 RPT1

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Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
 Data File : 4d50738.D
 Acq On : 4 Aug 2014 4:30 pm
 Operator : PayalR
 Sample : ic2264-100
 Misc : MS71470,V4D2264,5,,,1
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 04 17:14:40 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M4D2264.M
 Quant Title : SW-846 Method 8260B/8260C
 QLast Update : Mon Aug 04 16:33:47 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Tert Butyl Alcohol-d9	7.003	65	107711	500.00	ug/L	0.00
4) pentafluorobenzene	9.583	168	191976	50.00	ug/L	0.00
51) 1,4-difluorobenzene	10.543	114	244514	50.00	ug/L	0.00
83) chlorobenzene-d5	13.914	117	221559	50.00	ug/L	0.00
98) 1,4-dichlorobenzene-d4	16.341	152	116193	50.00	ug/L	0.00

System Monitoring Compounds						
45) dibromofluoromethane (s)	9.567	113	197364	86.26	ug/L	0.00
Spiked Amount	50.000	Range	79 - 120	Recovery	=	172.52%#
46) 1,2-dichloroethane-d4 (s)	10.018	65	204015	85.57	ug/L	0.00
Spiked Amount	50.000	Range	72 - 123	Recovery	=	171.14%#
75) toluene-d8 (s)	12.299	98	648221	93.92	ug/L	0.00
Spiked Amount	50.000	Range	78 - 119	Recovery	=	187.84%#
100) 4-bromofluorobenzene (s)	15.151	95	259626	74.19	ug/L	0.00
Spiked Amount	50.000	Range	74 - 119	Recovery	=	148.38%#

Target Compounds						Qvalue
2) 1,4-dioxane	11.282	88	77214	2707.09	ug/L	94
3) tertiary butyl alcohol	7.135	59	154769	521.96	ug/L	99
5) chlorodifluoromethane	3.339	51	180931	108.45	ug/L	100
6) dichlorodifluoromethane	3.333	85	246805	106.43	ug/L	100
7) chloromethane	3.648	50	294684	108.10	ug/L	99
8) vinyl chloride	3.910	62	280955	111.01	ug/L	99
10) bromomethane	4.565	94	173152	97.73	ug/L	100
11) chloroethane	4.765	64	119149	106.93	ug/L	99
12) trichlorofluoromethane	5.326	101	257095	113.32	ug/L	99
14) ethyl ether	5.782	74	105003	113.13	ug/L	99
16) 2-chloropropane	5.965	43	284617	99.19	ug/L	# 91
18) 1,1-dichloroethene	6.228	96	175817	101.36	ug/L	97
19) acetone	6.264	43	70322	100.98	ug/L	98
20) allyl chloride	6.815	76	89891	101.36	ug/L	94
21) acetonitrile	6.720	40	149882	1099.55	ug/L	97
22) iodomethane	6.495	142	360637	102.20	ug/L	100
23) iso-butyl alcohol	9.866	41	97518	1071.44	ug/L	99
24) carbon disulfide	6.636	76	652049	98.54	ug/L	100
25) methylene chloride	7.014	84	209761	100.60	ug/L	99
26) 1-chloropropane	7.077	42	292668	93.52	ug/L	# 96
27) methyl acetate	6.820	74	40827	121.30	ug/L	97
28) methyl tert butyl ether	7.460	73	563003	104.02	ug/L	100
29) trans-1,2-dichloroethene	7.465	96	188613	99.85	ug/L	98
30) di-isopropyl ether	8.188	45	610673	106.73	ug/L	98
31) ethyl tert-butyl ether	8.718	59	597020	108.18	ug/L	99
32) 2-butanone	8.922	72	30009	114.24	ug/L	98
33) 1,1-dichloroethane	8.110	63	351891	100.02	ug/L	99
34) chloroprene	8.257	53	239645	107.58	ug/L	100
35) acrylonitrile	7.370	53	492229	543.09	ug/L	99
36) vinyl acetate	8.146	86	34152	122.41	ug/L	96
37) ethyl acetate	8.991	45	35067	114.26	ug/L	97
38) 2,2-dichloropropane	8.970	77	240288	97.93	ug/L	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
 Data File : 4d50738.D
 Acq On : 4 Aug 2014 4:30 pm
 Operator : PayalR
 Sample : ic2264-100
 Misc : MS71470,V4D2264,5,,,1
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 04 17:14:40 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M4D2264.M
 Quant Title : SW-846 Method 8260B/8260C
 QLast Update : Mon Aug 04 16:33:47 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) cis-1,2-dichloroethene	8.943	96	212748	100.51	ug/L	99
40) propionitrile	8.996	54	397433	1051.85	ug/L	99
41) methyl acrylate	9.059	55	224861	107.99	ug/L	100
42) bromochloromethane	9.268	128	113717	103.61	ug/L	100
43) tetrahydrofuran	9.337	42	76674	105.90	ug/L	98
44) chloroform	9.352	83	332886	99.45	ug/L	100
47) freon 113	6.238	151	119428	107.14	ug/L	100
48) methacrylonitrile	9.216	41	147225	107.90	ug/L	98
49) 1,1,1-trichloroethane	9.651	97	256262	101.81	ug/L	99
50) tert-amyl methyl ether	10.217	73	576009	108.22	ug/L	99
52) epichlorohydrin	11.848	57	141791	562.11	ug/L	99
53) n-butyl alcohol	10.679	56	435824	5403.53	ug/L	98
54) cyclohexane	9.751	84	243591	96.62	ug/L	99
56) carbon tetrachloride	9.877	117	237022	99.72	ug/L	99
57) 1,1-dichloropropene	9.850	75	253706	99.16	ug/L	99
58) hexane	7.895	57	191875	102.09	ug/L	99
59) benzene	10.123	78	741746	102.67	ug/L	100
60) ISO-OCTANE	10.212	57	513348	98.04	ug/L	99
61) heptane	10.401	57	122209	103.66	ug/L	99
62) isopropyl acetate	10.102	43	424884	109.04	ug/L	99
63) 1,2-dichloroethane	10.113	62	249275	98.83	ug/L	100
64) trichloroethene	10.894	95	196157	100.35	ug/L	98
66) 2-nitropropane	11.691	43	66572	104.78	ug/L	99
67) 2-chloroethyl vinyl ether	11.759	63	838098	564.43	ug/L	99
68) methyl methacrylate	11.214	41	199382	108.79	ug/L	99
69) 1,2-dichloropropane	11.161	63	213939	101.43	ug/L	99
70) methylcyclohexane	11.161	83	278478	103.58	ug/L	98
72) dibromomethane	11.303	93	148302	100.45	ug/L	99
73) bromodichloromethane	11.460	83	271934	99.95	ug/L	100
74) cis-1,3-dichloropropene	11.969	75	338504	102.09	ug/L	100
76) 4-methyl-2-pentanone	12.100	58	106342	103.00	ug/L	99
77) toluene	12.378	92	445677	104.24	ug/L	100
78) 3-methyl-1-butanol	12.115	70	157157	2208.80	ug/L	97
79) trans-1,3-dichloropropene	12.572	75	316190	101.04	ug/L	100
80) ethyl methacrylate	12.619	69	292089	103.61	ug/L	99
81) 1,1,2-trichloroethane	12.792	83	177645	97.10	ug/L	100
82) 2-hexanone	13.017	58	104114	103.24	ug/L	99
84) tetrachloroethene	13.007	166	211729	101.16	ug/L	99
85) 1,3-dichloropropane	12.991	76	320116	99.87	ug/L	100
86) butyl acetate	13.127	56	165235	106.83	ug/L	97
87) dibromochloromethane	13.264	129	242983	99.35	ug/L	99
88) 1,2-dibromoethane	13.421	107	222328	100.15	ug/L	98
90) chlorobenzene	13.945	112	532448	100.92	ug/L	100
91) 1,1,1,2-tetrachloroethane	14.013	131	201246	98.58	ug/L	100
92) ethylbenzene	14.034	91	869395	102.14	ug/L	100
93) m,p-xylene	14.150	106	661277	209.89	ug/L	97
94) o-xylene	14.595	106	336401	101.48	ug/L	99
95) styrene	14.601	104	580415	106.08	ug/L	99
97) bromoform	14.837	173	196116	99.61	ug/L	99
99) isopropylbenzene	14.968	105	836077	104.53	ug/L	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
 Data File : 4d50738.D
 Acq On : 4 Aug 2014 4:30 pm
 Operator : PayalR
 Sample : ic2264-100
 Misc : MS71470,V4D2264,5,,,,,1
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 04 17:14:40 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M4D2264.M
 Quant Title : SW-846 Method 8260B/8260C
 QLast Update : Mon Aug 04 16:33:47 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
101) bromobenzene	15.345	156	241294	98.33	ug/L	96
102) cyclohexanone	15.093	55	226320	965.79	ug/L	99
103) 1,1,2,2-tetrachloroethane	15.246	83	342561	89.10	ug/L	100
104) trans-1,4-dichloro-2-b...	15.298	53	80143	98.68	ug/L	96
105) 1,2,3-trichloropropane	15.319	110	75280	95.04	ug/L	98
106) n-propylbenzene	15.398	91	976383	102.34	ug/L	100
107) 2-chlorotoluene	15.523	126	215064	99.20	ug/L	99
108) 4-chlorotoluene	15.628	91	622558	99.77	ug/L	100
109) 1,3,5-trimethylbenzene	15.555	105	705356	104.89	ug/L	100
110) tert-butylbenzene	15.911	119	606589	103.62	ug/L	100
111) pentachloroethane	15.959	167	155368	99.71	ug/L	98
112) 1,2,4-trimethylbenzene	15.953	105	715934	105.55	ug/L	99
113) sec-butylbenzene	16.126	105	941072	104.38	ug/L	99
114) 1,3-dichlorobenzene	16.284	146	446443	99.30	ug/L	99
115) p-isopropyltoluene	16.252	119	770940	107.19	ug/L	100
116) 1,4-dichlorobenzene	16.368	146	451773	96.38	ug/L	99
117) 1,2-dichlorobenzene	16.745	146	450296	99.98	ug/L	99
118) n-butylbenzene	16.656	92	418163	106.99	ug/L	99
119) 1,2-dibromo-3-chloropr...	17.469	75	64176	96.04	ug/L	96
120) 1,3,5-trichlorobenzene	17.673	180	395598	106.70	ug/L	99
121) 1,2,4-trichlorobenzene	18.245	180	375222	109.48	ug/L	99
122) hexachlorobutadiene	18.376	225	173609	102.81	ug/L	100
123) naphthalene	18.501	128	1009871	101.31	ug/L	100
124) 1,2,3-trichlorobenzene	18.727	180	363587	105.57	ug/L	99
125) hexachloroethane	17.012	119	178896	107.05	ug/L	99
126) Benzyl chloride	16.478	91	565596	109.05	ug/L	100

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

(QT Reviewed)

Quant Time: Aug 04 17:14:40 2014
Quant Method : C:\MSDCHEM\1\METHODS\M4D2264.M
Quant Title : SW-846 Method 8260B/8260C
QLast Update : Mon Aug 04 16:33:47 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
 Data File : 4d50739.D
 Acq On : 4 Aug 2014 4:57 pm
 Operator : PayalR
 Sample : ic2264-200
 Misc : MS71470,V4D2264,5,,,1
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Aug 05 09:00:16 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M4D2264.M
 Quant Title : SW-846 Method 8260B/8260C
 QLast Update : Mon Aug 04 17:11:35 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Tert Butyl Alcohol-d9	7.014	65	114540	500.00	ug/L	0.02
4) pentafluorobenzene	9.583	168	201443	50.00	ug/L	0.00
51) 1,4-difluorobenzene	10.542	114	253998	50.00	ug/L	0.00
83) chlorobenzene-d5	13.914	117	232094	50.00	ug/L	0.00
98) 1,4-dichlorobenzene-d4	16.341	152	123533	50.00	ug/L	0.00
System Monitoring Compounds						
45) dibromofluoromethane (s)	9.567	113	401296	200.13	ug/L	0.00
Spiked Amount 50.000	Range 79 - 120		Recovery =	400.26%#		
46) 1,2-dichloroethane-d4 (s)	10.018	65	410792	198.39	ug/L	0.00
Spiked Amount 50.000	Range 72 - 123		Recovery =	396.78%#		
75) toluene-d8 (s)	12.299	98	1329280	205.68	ug/L	0.00
Spiked Amount 50.000	Range 78 - 119		Recovery =	411.36%#		
100) 4-bromofluorobenzene (s)	15.151	95	529078	199.86	ug/L	0.00
Spiked Amount 50.000	Range 74 - 119		Recovery =	399.72%#		
Target Compounds						
					Qvalue	
2) 1,4-dioxane	11.287	88	151217	4917.63	ug/L	94
3) tertiary butyl alcohol	7.145	59	299860	944.07	ug/L	96
5) chlorodifluoromethane	3.338	51	392172	220.91	ug/L	99
6) dichlorodifluoromethane	3.323	85	521069	211.87	ug/L	100
7) chloromethane	3.653	50	613275	211.55	ug/L	99
8) vinyl chloride	3.915	62	588679	217.67	ug/L	99
10) bromomethane	4.560	94	259074	139.89	ug/L	98
11) chloroethane	4.754	64	234257	198.06	ug/L	98
12) trichlorofluoromethane	5.315	101	541653	222.58	ug/L	100
14) ethyl ether	5.782	74	211137	212.15	ug/L	99
16) 2-chloropropane	5.965	43	585400	194.68	ug/L	# 90
18) 1,1-dichloroethene	6.222	96	368174	201.82	ug/L	96
19) acetone	6.264	43	139889	191.07	ug/L	96
20) allyl chloride	6.815	76	186600	200.06	ug/L	98
21) acetonitrile	6.720	40	288844	1986.44	ug/L	99
22) iodomethane	6.495	142	743376	200.03	ug/L	100
23) iso-butyl alcohol	9.871	41	189239	1958.16	ug/L	98
24) carbon disulfide	6.636	76	1353034	195.35	ug/L	99
25) methylene chloride	7.014	84	431723	197.12	ug/L	98
26) 1-chloropropane	7.071	42	610210	187.86	ug/L	# 94
27) methyl acetate	6.815	74	81074	220.18	ug/L	94
28) methyl tert butyl ether	7.459	73	1138855	199.20	ug/L	99
29) trans-1,2-dichloroethene	7.465	96	387720	195.66	ug/L	99
30) di-isopropyl ether	8.188	45	1240497	204.33	ug/L	96
31) ethyl tert-butyl ether	8.718	59	1237126	210.76	ug/L	98
32) 2-butanone	8.922	72	59685	210.53	ug/L	97
33) 1,1-dichloroethane	8.110	63	717272	194.28	ug/L	99
34) chloroprene	8.256	53	498398	210.56	ug/L	98
35) acrylonitrile	7.370	53	951726	986.55	ug/L	99
36) vinyl acetate	8.146	86	69515	227.26	ug/L	90
37) ethyl acetate	8.985	45	68662	207.30	ug/L	88
38) 2,2-dichloropropane	8.964	77	491762	191.65	ug/L	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
 Data File : 4d50739.D
 Acq On : 4 Aug 2014 4:57 pm
 Operator : PayalR
 Sample : ic2264-200
 Misc : MS71470,V4D2264,5,,,1
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Aug 05 09:00:16 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M4D2264.M
 Quant Title : SW-846 Method 8260B/8260C
 QLast Update : Mon Aug 04 17:11:35 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) cis-1,2-dichloroethene	8.943	96	436406	196.32	ug/L	99
40) propionitrile	8.996	54	779223	1948.55	ug/L	99
41) methyl acrylate	9.059	55	447021	201.90	ug/L	100
42) bromochloromethane	9.274	128	232315	200.51	ug/L	95
43) tetrahydrofuran	9.336	42	148378	193.40	ug/L	97
44) chloroform	9.352	83	680282	193.84	ug/L	100
47) freon 113	6.238	151	254301	214.85	ug/L	99
48) methacrylonitrile	9.216	41	289803	199.78	ug/L	98
49) 1,1,1-trichloroethane	9.651	97	524597	198.02	ug/L	100
50) tert-amyl methyl ether	10.217	73	1177299	207.95	ug/L	99
52) epichlorohydrin	11.848	57	276032	1032.06	ug/L	98
53) n-butyl alcohol	10.679	56	835232	9836.59	ug/L	98
54) cyclohexane	9.751	84	504483	193.73	ug/L	99
56) carbon tetrachloride	9.876	117	490094	198.58	ug/L	99
57) 1,1-dichloropropene	9.850	75	525371	197.96	ug/L	98
58) hexane	7.889	57	403577	206.00	ug/L	99
59) benzene	10.118	78	1525860	202.54	ug/L	100
60) ISO-OCTANE	10.212	57	1076059	198.49	ug/L	99
61) heptane	10.396	57	250870	203.61	ug/L	99
62) isopropyl acetate	10.102	43	843632	205.33	ug/L	99
63) 1,2-dichloroethane	10.112	62	509329	194.77	ug/L	100
64) trichloroethene	10.894	95	407702	200.67	ug/L	98
66) 2-nitropropane	11.691	43	131509	197.68	ug/L	99
67) 2-chloroethyl vinyl ether	11.759	63	1643112	1042.86	ug/L	97
68) methyl methacrylate	11.219	41	398563	206.33	ug/L	97
69) 1,2-dichloropropane	11.161	63	436448	198.73	ug/L	99
70) methylcyclohexane	11.156	83	592642	210.94	ug/L	99
72) dibromomethane	11.303	93	301761	196.61	ug/L	99
73) bromodichloromethane	11.460	83	558833	197.75	ug/L	99
74) cis-1,3-dichloropropene	11.968	75	697153	201.70	ug/L	99
76) 4-methyl-2-pentanone	12.100	58	209556	194.41	ug/L	99
77) toluene	12.377	92	922109	206.38	ug/L	100
78) 3-methyl-1-butanol	12.120	70	304152	4044.78	ug/L	97
79) trans-1,3-dichloropropene	12.571	75	646336	198.48	ug/L	100
80) ethyl methacrylate	12.619	69	589965	200.26	ug/L	98
81) 1,1,2-trichloroethane	12.792	83	358630	189.62	ug/L	99
82) 2-hexanone	13.022	58	203624	193.33	ug/L	100
84) tetrachloroethene	13.007	166	437554	199.18	ug/L	99
85) 1,3-dichloropropane	12.991	76	645909	192.41	ug/L	98
86) butyl acetate	13.127	56	330141	201.46	ug/L	99
87) dibromochloromethane	13.263	129	493989	193.03	ug/L	99
88) 1,2-dibromoethane	13.421	107	449742	193.35	ug/L	99
90) chlorobenzene	13.945	112	1097482	198.32	ug/L	100
91) 1,1,1,2-tetrachloroethane	14.013	131	418173	196.00	ug/L	99
92) ethylbenzene	14.034	91	1800083	201.26	ug/L	99
93) m,p-xylene	14.155	106	1356985	408.27	ug/L	97
94) o-xylene	14.595	106	696177	199.99	ug/L	97
95) styrene	14.600	104	1198821	207.36	ug/L	99
97) bromoform	14.836	173	398333	193.27	ug/L	99
99) isopropylbenzene	14.973	105	1750263	204.49	ug/L	98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
 Data File : 4d50739.D
 Acq On : 4 Aug 2014 4:57 pm
 Operator : PayalR
 Sample : ic2264-200
 Misc : MS71470,V4D2264,5,,,,,1
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Aug 05 09:00:16 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M4D2264.M
 Quant Title : SW-846 Method 8260B/8260C
 QLast Update : Mon Aug 04 17:11:35 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
101) bromobenzene	15.350	156	499183	191.88	ug/L	96
103) 1,1,2,2-tetrachloroethane	15.245	83	675029	174.90	ug/L	99
104) trans-1,4-dichloro-2-b...	15.298	53	159121	184.69	ug/L	98
105) 1,2,3-trichloropropane	15.324	110	147972	177.18	ug/L	98
106) n-propylbenzene	15.397	91	2061292	202.54	ug/L	99
107) 2-chlorotoluene	15.528	126	451795	196.27	ug/L	98
108) 4-chlorotoluene	15.628	91	1300997	196.16	ug/L	100
109) 1,3,5-trimethylbenzene	15.560	105	1499200	208.24	ug/L	99
110) tert-butylbenzene	15.911	119	1267312	202.40	ug/L	98
111) pentachloroethane	15.964	167	332749	200.95	ug/L	97
112) 1,2,4-trimethylbenzene	15.953	105	1499177	206.25	ug/L	99
113) sec-butylbenzene	16.131	105	1992398	206.57	ug/L	98
114) 1,3-dichlorobenzene	16.283	146	935646	195.95	ug/L	99
115) p-isopropyltoluene	16.252	119	1621062	209.83	ug/L	99
116) 1,4-dichlorobenzene	16.367	146	949787	191.58	ug/L	99
117) 1,2-dichlorobenzene	16.745	146	938195	195.94	ug/L	99
118) n-butylbenzene	16.656	92	885808	211.06	ug/L	99
119) 1,2-dibromo-3-chloropr...	17.468	75	129533	183.53	ug/L	98
120) 1,3,5-trichlorobenzene	17.673	180	847721	213.02	ug/L	100
121) 1,2,4-trichlorobenzene	18.244	180	786867	213.05	ug/L	99
122) hexachlorobutadiene	18.375	225	369672	204.95	ug/L	100
123) naphthalene	18.501	128	2046954	192.79	ug/L	99
124) 1,2,3-trichlorobenzene	18.727	180	754404	204.40	ug/L	99
125) hexachloroethane	17.017	119	386633	215.08	ug/L	99
126) Benzyl chloride	16.477	91	1150386	205.53	ug/L	99

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

(QT Reviewed)

Quant Time: Aug 05 09:00:16 2014
Quant Method : C:\MSDCHEM\1\METHODS\M4D2264.M
Quant Title : SW-846 Method 8260B/8260C
QLast Update : Mon Aug 04 17:11:35 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
 Data File : 4d50743.D
 Acq On : 4 Aug 2014 6:47 pm
 Operator : PayalR
 Sample : ic2264-0.5
 Misc : MS71470,V4D2264,5,,,,,1
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Aug 05 09:15:51 2014
 Quant Method : C:\msdchem\1\methods\M4D2264.M
 Quant Title : SW-846 Method 8260B/8260C
 QLast Update : Tue Aug 05 08:52:30 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Tert Butyl Alcohol-d9	6.988	65	101062	500.00	ug/L	-0.01
4) pentafluorobenzene	9.583	168	205752	50.00	ug/L	0.00
51) 1,4-difluorobenzene	10.537	114	262756	50.00	ug/L	0.00
83) chlorobenzene-d5	13.914	117	230689	50.00	ug/L	0.00
98) 1,4-dichlorobenzene-d4	16.341	152	121774	50.00	ug/L	0.00

System Monitoring Compounds						
45) dibromofluoromethane (s)	9.573	113	1368	0.65	ug/L	0.00
Spiked Amount	50.000	Range	79 - 120	Recovery	=	1.30%#
46) 1,2-dichloroethane-d4 (s)	10.023	65	1247	0.59	ug/L	0.00
Spiked Amount	50.000	Range	72 - 123	Recovery	=	1.18%#
75) toluene-d8 (s)	12.299	98	3567	0.54	ug/L	0.00
Spiked Amount	50.000	Range	78 - 119	Recovery	=	1.08%#
100) 4-bromofluorobenzene (s)	0.000	95	0d	0.00	ug/L	
Spiked Amount	50.000	Range	74 - 119	Recovery	=	0.00%#

Target Compounds						Qvalue
7) chloromethane	3.616	50	1736	0.58	ug/L	93
8) vinyl chloride	3.873	62	1586	0.56	ug/L	91
12) trichlorofluoromethane	5.305	101	1038	0.43	ug/L	83
18) 1,1-dichloroethene	6.222	96	660	0.37	ug/L #	60
22) iodomethane	6.495	142	1664	0.46	ug/L	78
24) carbon disulfide	6.636	76	3969	0.56	ug/L	94
25) methylene chloride	7.009	84	1087	0.50	ug/L	99
26) 1-chloropropane	7.072	42	1618	0.50	ug/L #	44
28) methyl tert butyl ether	7.460	73	2615	0.47	ug/L	91
29) trans-1,2-dichloroethene	7.475	96	848	0.44	ug/L	93
30) di-isopropyl ether	8.188	45	3870	0.61	ug/L #	64
31) ethyl tert-butyl ether	8.707	59	3842	0.63	ug/L	98
33) 1,1-dichloroethane	8.110	63	1541	0.43	ug/L	85
34) chloroprene	8.267	53	1234	0.52	ug/L	78
35) acrylonitrile	7.412	53	2126	2.24	ug/L	79
39) cis-1,2-dichloroethene	8.949	96	1007	0.46	ug/L	91
44) chloroform	9.352	83	1819	0.52	ug/L	99
57) 1,1-dichloropropene	9.845	75	1095	0.42	ug/L	95
58) hexane	7.900	57	888	0.46	ug/L	97
59) benzene	10.128	78	3496	0.46	ug/L	92
60) ISO-OCTANE	10.207	57	2680	0.50	ug/L #	83
63) 1,2-dichloroethane	10.113	62	1175	0.45	ug/L	93
64) trichloroethene	10.894	95	891	0.44	ug/L	85
68) methyl methacrylate	11.224	41	1019	0.50	ug/L	84
70) methylcyclohexane	11.156	83	1303	0.47	ug/L	97
72) dibromomethane	11.308	93	667	0.44	ug/L	88
73) bromodichloromethane	11.455	83	1279	0.45	ug/L	82
74) cis-1,3-dichloropropene	11.974	75	1641	0.47	ug/L	95
77) toluene	12.378	92	2107	0.46	ug/L	99
79) trans-1,3-dichloropropene	12.572	75	1722	0.51	ug/L	98
80) ethyl methacrylate	12.629	69	1626	0.52	ug/L	92
81) 1,1,2-trichloroethane	12.792	83	1054	0.53	ug/L	91

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
 Data File : 4d50743.D
 Acq On : 4 Aug 2014 6:47 pm
 Operator : PayalR
 Sample : ic2264-0.5
 Misc : MS71470,V4D2264,5,,,,,1
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Aug 05 09:15:51 2014
 Quant Method : C:\msdchem\1\methods\M4D2264.M
 Quant Title : SW-846 Method 8260B/8260C
 QLast Update : Tue Aug 05 08:52:30 2014
 Response via : Initial Calibration

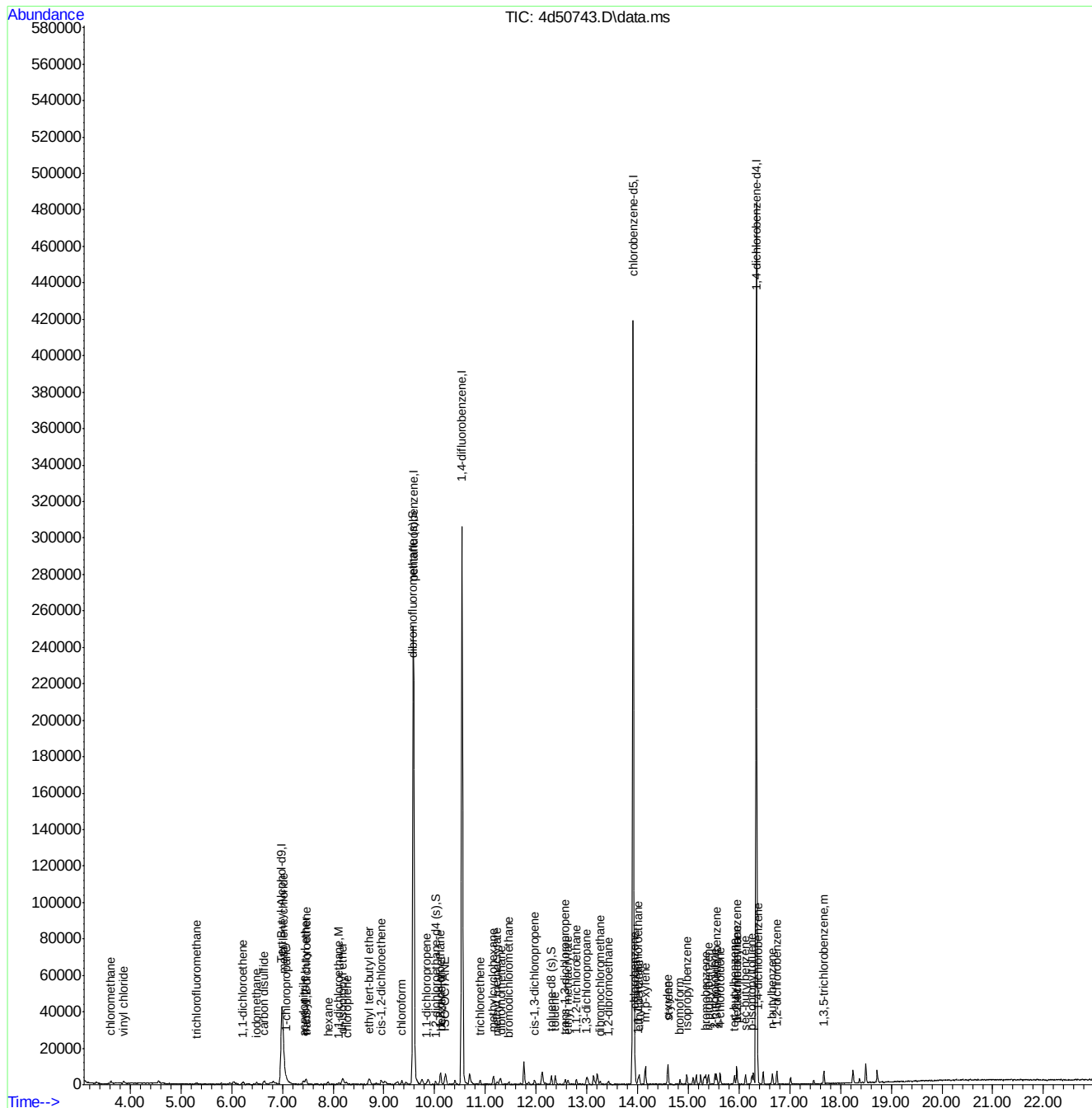
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
85)	1,3-dichloropropane	12.991	76	1740	0.52	ug/L	89
87)	dibromochloromethane	13.264	129	1342	0.52	ug/L	94
88)	1,2-dibromoethane	13.421	107	1231	0.52	ug/L	94
90)	chlorobenzene	13.945	112	2821	0.51	ug/L	92
91)	1,1,1,2-tetrachloroethane	14.008	131	1116	0.52	ug/L	96
92)	ethylbenzene	14.034	91	4140	0.47	ug/L	95
93)	m,p-xylene	14.150	106	3108	0.95	ug/L	95
94)	o-xylene	14.595	106	1681	0.49	ug/L	96
95)	styrene	14.601	104	3034	0.52	ug/L	98
97)	bromoform	14.837	173	1296	0.61	ug/L	92
99)	isopropylbenzene	14.968	105	3872	0.46	ug/L	95
101)	bromobenzene	15.345	156	1519	0.57	ug/L	98
106)	n-propylbenzene	15.398	91	4934	0.49	ug/L	92
107)	2-chlorotoluene	15.523	126	1101	0.49	ug/L	95
108)	4-chlorotoluene	15.628	91	3856	0.58	ug/L	99
109)	1,3,5-trimethylbenzene	15.555	105	3684	0.52	ug/L	99
110)	tert-butylbenzene	15.906	119	2938	0.48	ug/L	94
111)	pentachloroethane	15.959	167	966	0.57	ug/L	97
112)	1,2,4-trimethylbenzene	15.953	105	3882	0.54	ug/L	97
113)	sec-butylbenzene	16.126	105	4451	0.47	ug/L	97
115)	p-isopropyltoluene	16.252	119	3721	0.49	ug/L	96
116)	1,4-dichlorobenzene	16.368	146	3127	0.64	ug/L	95
117)	1,2-dichlorobenzene	16.745	146	3246	0.67	ug/L	98
118)	n-butylbenzene	16.656	92	2013	0.49	ug/L	94
120)	1,3,5-trichlorobenzene	17.673	180	2361	0.58	ug/L	97

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 4d50743.D
Acq On : 4 Aug 2014 6:47 pm
Operator : PayalR
Sample : ic2264-0.5
Misc : MS71470,V4D2264,5,,,,,1
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Aug 05 09:15:51 2014
Quant Method : C:\msdchem\1\methods\M4D2264.M
Quant Title : SW-846 Method 8260B/8260C
QLast Update : Tue Aug 05 08:52:30 2014
Response via : Initial Calibration



7.6.21

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
 Data File : 4d50744.D
 Acq On : 4 Aug 2014 7:14 pm
 Operator : PayalR
 Sample : ic2264-1
 Misc : MS71470,V4D2264,5,,,1
 ALS Vial : 16 Sample Multiplier: 1

Quant Time: Aug 05 08:39:55 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M4D2264.M
 Quant Title : SW-846 Method 8260B/8260C
 QLast Update : Mon Aug 04 17:23:41 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Tert Butyl Alcohol-d9	6.993	65	96940	500.00	ug/L	0.00
4) pentafluorobenzene	9.583	168	195775	50.00	ug/L	0.00
51) 1,4-difluorobenzene	10.537	114	249081	50.00	ug/L	0.00
83) chlorobenzene-d5	13.914	117	220082	50.00	ug/L	0.00
98) 1,4-dichlorobenzene-d4	16.341	152	115888	50.00	ug/L	0.00

System Monitoring Compounds						
45) dibromofluoromethane (s)	9.572	113	1835	0.94	ug/L	0.00
Spiked Amount	50.000	Range	79 - 120	Recovery	=	1.88%#
46) 1,2-dichloroethane-d4 (s)	10.023	65	1716	0.85	ug/L	0.00
Spiked Amount	50.000	Range	72 - 123	Recovery	=	1.70%#
75) toluene-d8 (s)	12.299	98	5432	0.85	ug/L	0.00
Spiked Amount	50.000	Range	78 - 119	Recovery	=	1.70%#
100) 4-bromofluorobenzene (s)	0.000	95	0d	0.00	ug/L	
Spiked Amount	50.000	Range	74 - 119	Recovery	=	0.00%#

Target Compounds				Qvalue		
6) dichlorodifluoromethane	3.323	85	1772	0.74	ug/L #	49
7) chloromethane	3.616	50	2625	0.92	ug/L	86
8) vinyl chloride	3.868	62	2427	0.91	ug/L	93
10) bromomethane	4.550	94	1887	1.10	ug/L	87
11) chloroethane	4.759	64	1074	0.94	ug/L #	44
12) trichlorofluoromethane	5.305	101	1895	0.79	ug/L	87
16) 2-chloropropane	5.960	43	2284	0.78	ug/L #	45
17) acrolein	5.991	56	528724	1002.92	ug/L	100
18) 1,1-dichloroethene	6.222	96	1166	0.66	ug/L	90
22) iodomethane	6.490	142	2654	0.73	ug/L	86
24) carbon disulfide	6.631	76	6050	0.90	ug/L	97
25) methylene chloride	7.009	84	1771	0.83	ug/L	94
26) 1-chloropropane	7.072	42	2960	0.95	ug/L #	71
28) methyl tert butyl ether	7.454	73	4288	0.77	ug/L	96
29) trans-1,2-dichloroethene	7.470	96	1566	0.82	ug/L	96
30) di-isopropyl ether	8.183	45	5119	0.86	ug/L #	65
31) ethyl tert-butyl ether	8.713	59	5006	0.87	ug/L	99
33) 1,1-dichloroethane	8.115	63	2647	0.74	ug/L	97
34) chloroprene	8.262	53	1651	0.71	ug/L	95
35) acrylonitrile	7.391	53	3898	4.17	ug/L	93
38) 2,2-dichloropropane	8.964	77	1959	0.79	ug/L	94
39) cis-1,2-dichloroethene	8.943	96	1705	0.79	ug/L	93
40) propionitrile	9.011	54	3865	9.98	ug/L	95
42) bromochloromethane	9.274	128	755	0.67	ug/L	96
43) tetrahydrofuran	9.347	42	608	0.82	ug/L #	33
44) chloroform	9.358	83	2930	0.86	ug/L	95
48) methacrylonitrile	9.226	41	1187	0.84	ug/L	87
49) 1,1,1-trichloroethane	9.646	97	1815	0.71	ug/L	84
50) tert-amyl methyl ether	10.217	73	5483	0.99	ug/L	94
54) cyclohexane	9.745	84	1855	0.73	ug/L	96
56) carbon tetrachloride	9.877	117	1644	0.68	ug/L	96
57) 1,1-dichloropropene	9.850	75	1921	0.74	ug/L	95

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
 Data File : 4d50744.D
 Acq On : 4 Aug 2014 7:14 pm
 Operator : PayalR
 Sample : ic2264-1
 Misc : MS71470,V4D2264,5,,,1
 ALS Vial : 16 Sample Multiplier: 1

Quant Time: Aug 05 08:39:55 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M4D2264.M
 Quant Title : SW-846 Method 8260B/8260C
 QLast Update : Mon Aug 04 17:23:41 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
58) hexane	7.895	57	1411	0.73	ug/L	90
59) benzene	10.123	78	6245	0.84	ug/L	99
60) ISO-OCTANE	10.202	57	3883	0.73	ug/L #	83
62) isopropyl acetate	10.107	43	4771	1.18	ug/L #	85
63) 1,2-dichloroethane	10.118	62	2002	0.78	ug/L	91
64) trichloroethene	10.894	95	1652	0.83	ug/L	90
66) 2-nitropropane	11.701	43	696	1.07	ug/L	80
67) 2-chloroethyl vinyl ether	11.759	63	8098	5.21	ug/L	98
68) methyl methacrylate	11.224	41	2013	1.06	ug/L	95
69) 1,2-dichloropropane	11.156	63	1732	0.80	ug/L	94
70) methylcyclohexane	11.156	83	1915	0.69	ug/L	99
72) dibromomethane	11.303	93	1225	0.82	ug/L	95
73) bromodichloromethane	11.460	83	2574	0.93	ug/L	95
74) cis-1,3-dichloropropene	11.969	75	3194	0.94	ug/L	96
76) 4-methyl-2-pentanone	12.105	58	1250	1.19	ug/L #	63
77) toluene	12.378	92	3835	0.87	ug/L	96
79) trans-1,3-dichloropropene	12.572	75	3428	1.07	ug/L	97
80) ethyl methacrylate	12.624	69	3205	1.11	ug/L	98
81) 1,1,2-trichloroethane	12.792	83	2119	1.15	ug/L	90
82) 2-hexanone	13.028	58	1315	1.28	ug/L	87
84) tetrachloroethene	13.007	166	1696	0.81	ug/L	98
85) 1,3-dichloropropane	12.991	76	3449	1.09	ug/L	97
87) dibromochloromethane	13.258	129	2837	1.17	ug/L	98
88) 1,2-dibromoethane	13.426	107	2424	1.10	ug/L	91
90) chlorobenzene	13.945	112	5657	1.08	ug/L	98
91) 1,1,1,2-tetrachloroethane	14.008	131	2198	1.09	ug/L	91
92) ethylbenzene	14.034	91	8112	0.96	ug/L	97
93) m,p-xylene	14.150	106	5979	1.89	ug/L	99
94) o-xylene	14.595	106	3185	0.96	ug/L	94
95) styrene	14.601	104	5860	1.06	ug/L	98
97) bromoform	14.836	173	2542	1.31	ug/L	97
99) isopropylbenzene	14.968	105	7541	0.94	ug/L	99
101) bromobenzene	15.345	156	2880	1.19	ug/L	93
103) 1,1,2,2-tetrachloroethane	15.245	83	5452	1.53	ug/L	97
106) n-propylbenzene	15.397	91	9272	0.97	ug/L	98
107) 2-chlorotoluene	15.523	126	2217	1.03	ug/L	99
108) 4-chlorotoluene	15.628	91	6814	1.10	ug/L	98
109) 1,3,5-trimethylbenzene	15.555	105	6539	0.96	ug/L	99
110) tert-butylbenzene	15.911	119	5462	0.93	ug/L	95
111) pentachloroethane	15.959	167	1744	1.12	ug/L	91
112) 1,2,4-trimethylbenzene	15.953	105	6874	1.00	ug/L	92
113) sec-butylbenzene	16.126	105	8456	0.93	ug/L	98
114) 1,3-dichlorobenzene	16.284	146	5172	1.16	ug/L	94
115) p-isopropyltoluene	16.252	119	6679	0.92	ug/L	99
116) 1,4-dichlorobenzene	16.367	146	5470	1.18	ug/L	98
117) 1,2-dichlorobenzene	16.745	146	5399	1.20	ug/L	96
118) n-butylbenzene	16.656	92	3658	0.92	ug/L	96
120) 1,3,5-trichlorobenzene	17.673	180	3875	1.03	ug/L	99
121) 1,2,4-trichlorobenzene	18.244	180	3895	1.12	ug/L	97
122) hexachlorobutadiene	18.376	225	1526	0.90	ug/L	93

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 4d50744.D
Acq On : 4 Aug 2014 7:14 pm
Operator : PayalR
Sample : ic2264-1
Misc : MS71470,V4D2264,5,,,,1
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Aug 05 08:39:55 2014
Quant Method : C:\MSDCHEM\1\METHODS\M4D2264.M
Quant Title : SW-846 Method 8260B/8260C
QLast Update : Mon Aug 04 17:23:41 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
123) naphthalene	18.501	128	12044	1.21	ug/L	99
124) 1,2,3-trichlorobenzene	18.727	180	4032	1.16	ug/L	95
125) hexachloroethane	17.012	119	1549	0.91	ug/L	98

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

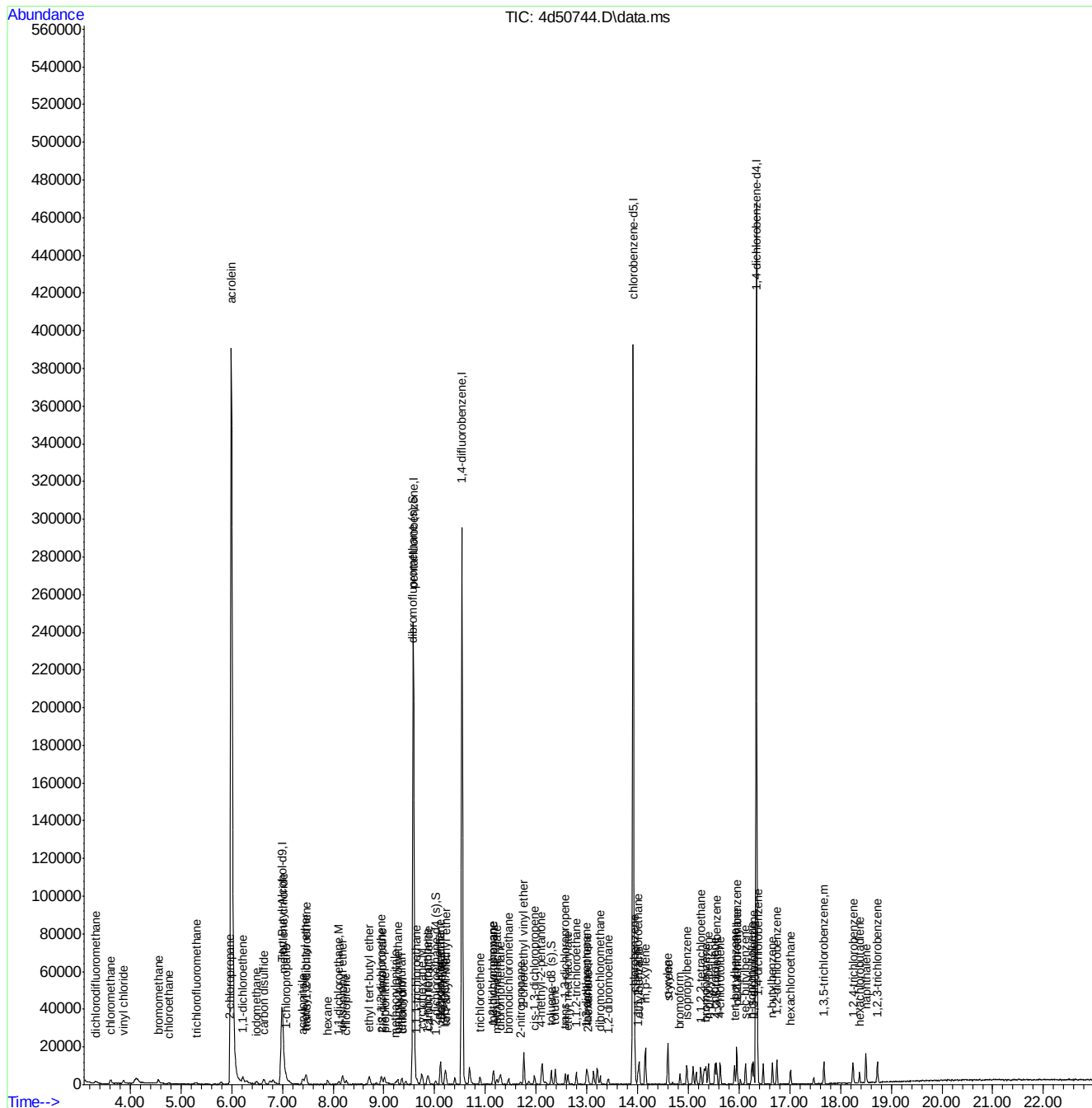
7.6.22

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 4d50744.D
Acq On : 4 Aug 2014 7:14 pm
Operator : PayalR
Sample : ic2264-1
Misc : MS71470,V4D2264,5,,,,,1
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Aug 05 08:39:55 2014
Quant Method : C:\MSDCHEM\1\METHODS\M4D2264.M
Quant Title : SW-846 Method 8260B/8260C
QLast Update : Mon Aug 04 17:23:41 2014
Response via : Initial Calibration



M4D2264.M Tue Aug 05 11:38:03 2014 RPT1

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7.6.22

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
 Data File : 4d50745.D
 Acq On : 4 Aug 2014 7:41 pm
 Operator : PayalR
 Sample : icv2264-50
 Misc : MS71470,V4D2264,5,,,,,1
 ALS Vial : 17 Sample Multiplier: 1

Quant Time: Aug 05 09:20:55 2014
 Quant Method : C:\msdchem\1\methods\M4D2264.M
 Quant Title : SW-846 Method 8260B/8260C
 QLast Update : Tue Aug 05 09:18:13 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Tert Butyl Alcohol-d9	6.998	65	101160	500.00	ug/L	0.00
4) pentafluorobenzene	9.583	168	193374	50.00	ug/L	0.00
51) 1,4-difluorobenzene	10.537	114	244677	50.00	ug/L	0.00
83) chlorobenzene-d5	13.914	117	221167	50.00	ug/L	0.00
98) 1,4-dichlorobenzene-d4	16.341	152	115381	50.00	ug/L	0.00
System Monitoring Compounds						
45) dibromofluoromethane (s)	9.567	113	101249	51.02	ug/L	0.00
Spiked Amount 50.000	Range 79 - 120		Recovery =	102.04%		
46) 1,2-dichloroethane-d4 (s)	10.013	65	105181	52.78	ug/L	0.00
Spiked Amount 50.000	Range 72 - 123		Recovery =	105.56%		
75) toluene-d8 (s)	12.299	98	332648	53.71	ug/L	0.00
Spiked Amount 50.000	Range 78 - 119		Recovery =	107.42%		
100) 4-bromofluorobenzene (s)	15.151	95	131062	53.01	ug/L	0.00
Spiked Amount 50.000	Range 74 - 119		Recovery =	106.02%		
Target Compounds						
					Qvalue	
2) 1,4-dioxane	11.282	88	35214	1299.70	ug/L	96
3) tertiary butyl alcohol	7.129	59	71897	258.36	ug/L	99
5) chlorodifluoromethane	3.333	51	90093	52.09	ug/L	99
6) dichlorodifluoromethane	3.328	85	123270	53.55	ug/L	99
7) chloromethane	3.637	50	148556	52.44	ug/L	99
8) vinyl chloride	3.894	62	140032	53.00	ug/L	100
10) bromomethane	4.560	94	92209	53.55	ug/L	99
11) chloroethane	4.759	64	61146	54.37	ug/L	99
12) trichlorofluoromethane	5.320	101	128072	56.40	ug/L	99
14) ethyl ether	5.782	74	52943	54.94	ug/L	98
16) 2-chloropropane	5.960	43	146929	52.51	ug/L	99
17) acrolein	5.997	56	259112	497.36	ug/L	100
18) 1,1-dichloroethene	6.217	96	89380	53.26	ug/L	99
19) acetone	6.264	43	37684	54.02	ug/L	99
20) allyl chloride	6.815	76	45795	51.14	ug/L	97
21) acetonitrile	6.720	40	73099	524.20	ug/L	97
22) iodomethane	6.489	142	185224	54.26	ug/L	99
23) iso-butyl alcohol	9.866	41	46410	501.77	ug/L	98
24) carbon disulfide	6.636	76	336130	50.57	ug/L	99
25) methylene chloride	7.009	84	108192	52.69	ug/L	97
26) 1-chloropropane	7.071	42	153576	50.07	ug/L	99
27) methyl acetate	6.815	74	19088	53.11	ug/L	96
28) methyl tert butyl ether	7.454	73	550487	104.20	ug/L	100
29) trans-1,2-dichloroethene	7.465	96	97090	53.23	ug/L	97
30) di-isopropyl ether	8.188	45	307859	52.03	ug/L	99
31) ethyl tert-butyl ether	8.713	59	290167	50.31	ug/L	99
32) 2-butanone	8.922	72	14886	54.22	ug/L	99
33) 1,1-dichloroethane	8.110	63	181586	54.08	ug/L	98
34) chloroprene	8.256	53	124544	56.11	ug/L	99
35) acrylonitrile	7.370	53	247618	277.21	ug/L	100
36) vinyl acetate	8.146	86	17159	57.14	ug/L	98
37) ethyl acetate	8.990	45	16638	52.01	ug/L	94

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
 Data File : 4d50745.D
 Acq On : 4 Aug 2014 7:41 pm
 Operator : PayalR
 Sample : icv2264-50
 Misc : MS71470,V4D2264,5,,,,,1
 ALS Vial : 17 Sample Multiplier: 1

Quant Time: Aug 05 09:20:55 2014
 Quant Method : C:\msdchem\1\methods\M4D2264.M
 Quant Title : SW-846 Method 8260B/8260C
 QLast Update : Tue Aug 05 09:18:13 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
38) 2,2-dichloropropane	8.964	77	116155	48.72	ug/L	99
39) cis-1,2-dichloroethene	8.943	96	110841	54.00	ug/L	97
40) propionitrile	8.990	54	200568	524.52	ug/L	99
41) methyl acrylate	9.059	55	113977	53.55	ug/L	100
42) bromochloromethane	9.268	128	57901	54.28	ug/L	98
43) tetrahydrofuran	9.336	42	37931	52.94	ug/L	98
44) chloroform	9.352	83	173963	52.46	ug/L	100
47) freon 113	6.238	151	61455	53.52	ug/L	98
48) methacrylonitrile	9.216	41	74585	54.65	ug/L	99
49) 1,1,1-trichloroethane	9.646	97	130989	53.55	ug/L	99
50) tert-amyl methyl ether	10.217	73	277205	50.78	ug/L	100
52) epichlorohydrin	11.848	57	64886	250.70	ug/L	98
53) n-butyl alcohol	10.673	56	206128	2525.96	ug/L	99
54) cyclohexane	9.745	84	123246	51.08	ug/L	98
56) carbon tetrachloride	9.871	117	120446	52.83	ug/L	99
57) 1,1-dichloropropene	9.850	75	131426	54.27	ug/L	99
58) hexane	7.895	57	112785	62.25	ug/L	99
59) benzene	10.118	78	385572	54.46	ug/L	100
60) ISO-OCTANE	10.207	57	263351	52.30	ug/L	99
61) heptane	10.396	57	56331	47.34	ug/L	100
62) isopropyl acetate	10.102	43	204058	50.23	ug/L	99
63) 1,2-dichloroethane	10.112	62	130178	53.93	ug/L	100
64) trichloroethene	10.894	95	101222	53.62	ug/L	98
66) 2-nitropropane	11.691	43	32343	50.12	ug/L	96
67) 2-chloroethyl vinyl ether	11.753	63	401601	261.62	ug/L	100
68) methyl methacrylate	11.213	41	100008	53.07	ug/L	100
69) 1,2-dichloropropane	11.156	63	110186	53.43	ug/L	99
70) methylcyclohexane	11.156	83	135784	52.22	ug/L	89
72) dibromomethane	11.303	93	76554	53.95	ug/L	99
73) bromodichloromethane	11.455	83	138261	51.99	ug/L	99
74) cis-1,3-dichloropropene	11.968	75	171041	52.13	ug/L	99
76) 4-methyl-2-pentanone	12.100	58	52836	49.92	ug/L	99
77) toluene	12.377	92	226817	53.67	ug/L	99
78) 3-methyl-1-butanol	12.115	70	73917	1018.81	ug/L	99
79) trans-1,3-dichloropropene	12.571	75	159649	50.40	ug/L	100
80) ethyl methacrylate	12.619	69	145217	50.18	ug/L	100
81) 1,1,2-trichloroethane	12.792	83	91071	49.07	ug/L	99
82) 2-hexanone	13.022	58	51332	49.12	ug/L	99
84) tetrachloroethene	13.007	166	105801	51.77	ug/L	99
85) 1,3-dichloropropane	12.991	76	163625	50.65	ug/L	99
86) butyl acetate	13.127	56	78808	50.41	ug/L	98
87) dibromochloromethane	13.263	129	123288	49.51	ug/L	99
88) 1,2-dibromoethane	13.421	107	113034	50.27	ug/L	100
90) chlorobenzene	13.945	112	272668	51.22	ug/L	100
91) 1,1,1,2-tetrachloroethane	14.013	131	102115	49.57	ug/L	99
92) ethylbenzene	14.034	91	445572	52.84	ug/L	100
93) m,p-xylene	14.150	106	335982	107.04	ug/L	99
94) o-xylene	14.595	106	169431	51.44	ug/L	100
95) styrene	14.600	104	292047	52.17	ug/L	99
97) bromoform	14.836	173	97497	46.87	ug/L	98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
 Data File : 4d50745.D
 Acq On : 4 Aug 2014 7:41 pm
 Operator : PayalR
 Sample : icv2264-50
 Misc : MS71470,V4D2264,5,,,,,1
 ALS Vial : 17 Sample Multiplier: 1

Quant Time: Aug 05 09:20:55 2014
 Quant Method : C:\msdchem\1\methods\M4D2264.M
 Quant Title : SW-846 Method 8260B/8260C
 QLast Update : Tue Aug 05 09:18:13 2014
 Response via : Initial Calibration

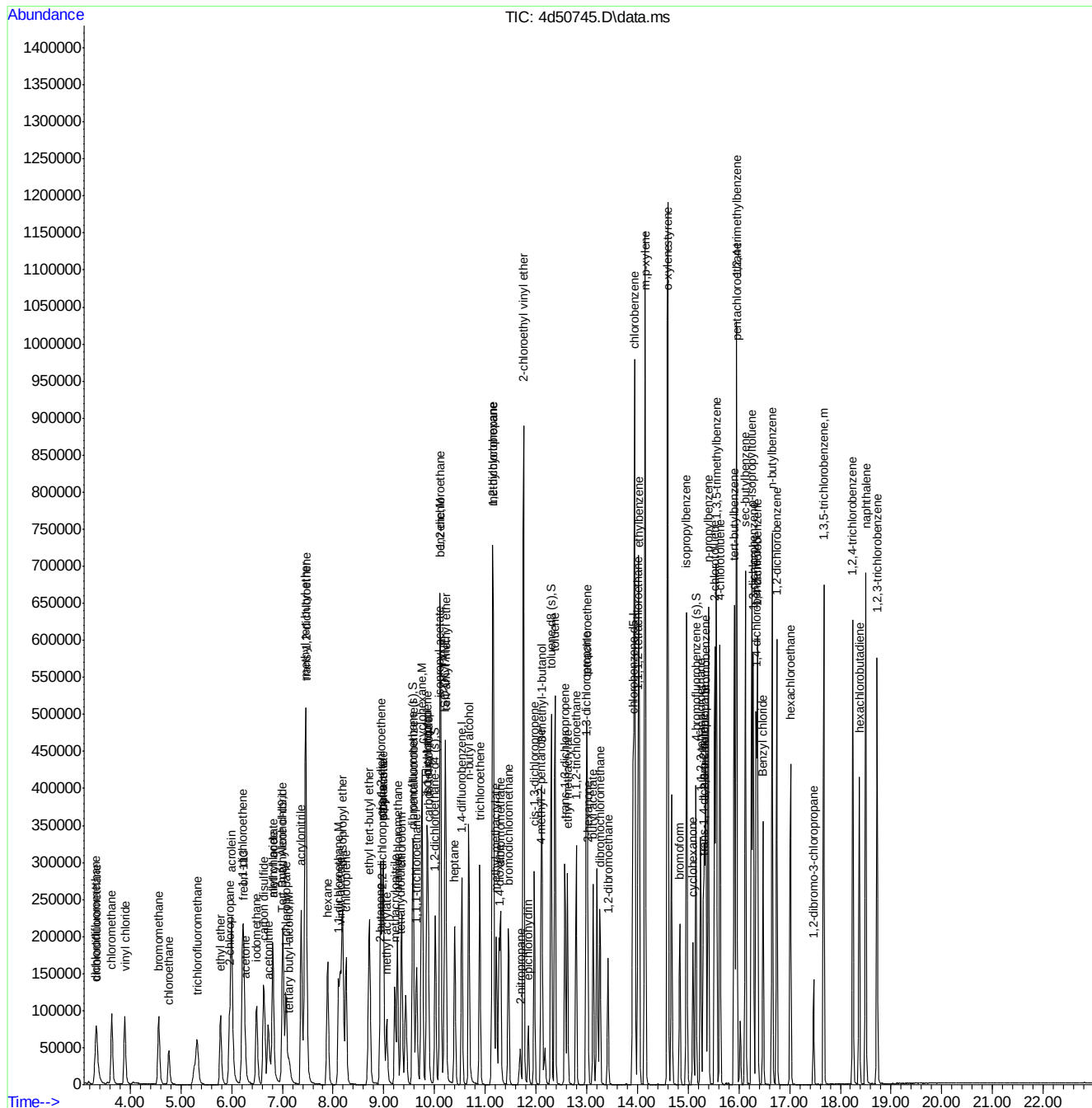
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
99)	isopropylbenzene	14.967	105	421741	53.40	ug/L	99
101)	bromobenzene	15.345	156	123507	49.06	ug/L	98
102)	cyclohexanone	15.093	55	82223	355.37	ug/L	99
103)	1,1,2,2-tetrachloroethane	15.245	83	174182	46.13	ug/L	100
104)	trans-1,4-dichloro-2-b...	15.298	53	38435	48.29	ug/L	96
105)	1,2,3-trichloropropane	15.319	110	37631	49.04	ug/L	99
106)	n-propylbenzene	15.397	91	503624	53.15	ug/L	100
107)	2-chlorotoluene	15.523	126	110294	51.42	ug/L	100
108)	4-chlorotoluene	15.628	91	319202	50.25	ug/L	100
109)	1,3,5-trimethylbenzene	15.555	105	358186	53.02	ug/L	99
110)	tert-butylbenzene	15.911	119	304555	52.70	ug/L	100
111)	pentachloroethane	15.958	167	80115	50.07	ug/L	97
112)	1,2,4-trimethylbenzene	15.953	105	362253	52.71	ug/L	99
113)	sec-butylbenzene	16.126	105	479096	53.70	ug/L	100
114)	1,3-dichlorobenzene	16.283	146	227229	49.78	ug/L	99
115)	p-isopropyltoluene	16.252	119	388386	54.11	ug/L	99
116)	1,4-dichlorobenzene	16.367	146	229690	47.80	ug/L	98
117)	1,2-dichlorobenzene	16.745	146	228004	47.75	ug/L	99
118)	n-butylbenzene	16.656	92	211073	54.08	ug/L	99
119)	1,2-dibromo-3-chloropr...	17.468	75	31594	48.50	ug/L	99
120)	1,3,5-trichlorobenzene	17.673	180	194923	50.88	ug/L	100
121)	1,2,4-trichlorobenzene	18.244	180	184285	51.20	ug/L	100
122)	hexachlorobutadiene	18.375	225	84493	50.62	ug/L	100
123)	naphthalene	18.501	128	499768	50.24	ug/L	100
124)	1,2,3-trichlorobenzene	18.727	180	180586	50.97	ug/L	100
125)	hexachloroethane	17.017	119	89094	53.10	ug/L	99
126)	Benzyl chloride	16.477	91	238194	45.38	ug/L	100

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 4d50745.D
Acq On : 4 Aug 2014 7:41 pm
Operator : PayalR
Sample : icv2264-50
Misc : MS71470,V4D2264,5,,,,,1
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Aug 05 09:20:55 2014
Quant Method : C:\msdchem\1\methods\M4D2264.M
Quant Title : SW-846 Method 8260B/8260C
QLast Update : Tue Aug 05 09:18:13 2014
Response via : Initial Calibration



7.6.23



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
 Data File : 4d51728.D
 Acq On : 8 Sep 2014 9:30 am
 Operator : PayalR
 Sample : cc2264-20
 Misc : MS73134,V4D2303,5,,,,,1
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 08 16:00:00 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M4D2264.M
 Quant Title : SW-846 Method 8260B/8260C
 QLast Update : Fri Aug 22 16:59:22 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Tert Butyl Alcohol-d9	7.003	65	87179	500.00	ug/L	0.00
4) pentafluorobenzene	9.588	168	179046	50.00	ug/L	0.00
51) 1,4-difluorobenzene	10.542	114	208611	50.00	ug/L	0.00
83) chlorobenzene-d5	13.914	117	187362	50.00	ug/L	0.00
98) 1,4-dichlorobenzene-d4	16.341	152	101761	50.00	ug/L	0.00
System Monitoring Compounds						
45) dibromofluoromethane (s)	9.567	113	80514	43.82	ug/L	0.00
Spiked Amount 50.000	Range 79 - 120		Recovery =	87.64%		
46) 1,2-dichloroethane-d4 (s)	10.018	65	86014	46.61	ug/L	0.00
Spiked Amount 50.000	Range 72 - 123		Recovery =	93.22%		
75) toluene-d8 (s)	12.299	98	259032	49.06	ug/L	0.00
Spiked Amount 50.000	Range 78 - 119		Recovery =	98.12%		
100) 4-bromofluorobenzene (s)	15.151	95	96850	44.42	ug/L	0.00
Spiked Amount 50.000	Range 74 - 119		Recovery =	88.84%		
Target Compounds						
2) 1,4-dioxane	11.287	88	12526	536.46	ug/L	91
3) tertiary butyl alcohol	7.134	59	26576	110.82	ug/L	93
5) chlorodifluoromethane	3.344	51	33205	20.73	ug/L	96
6) dichlorodifluoromethane	3.323	85	42554	19.96	ug/L	99
7) chloromethane	3.642	50	42813	16.32	ug/L	99
8) vinyl chloride	3.910	62	41660	17.03	ug/L	98
10) bromomethane	4.576	94	29817	18.70	ug/L	99
11) chloroethane	4.775	64	18459	17.73	ug/L	97
12) trichlorofluoromethane	5.331	101	50331	23.94	ug/L	99
14) ethyl ether	5.787	74	15092	16.91	ug/L	95
16) 2-chloropropane	5.970	43	46690	18.02	ug/L	97
17) acrolein	6.007	56	80914	167.74	ug/L	99
18) 1,1-dichloroethene	6.227	96	26756	17.22	ug/L	99
19) acetone	6.274	43	11721	18.15	ug/L	96
20) allyl chloride	6.820	76	14500	17.49	ug/L	98
21) acetonitrile	6.731	40	28505	220.77	ug/L	90
22) iodomethane	6.500	142	56586	17.90	ug/L	98
23) iso-butyl alcohol	9.871	41	17941	209.49	ug/L	96
24) carbon disulfide	6.636	76	100725	16.37	ug/L	100
25) methylene chloride	7.019	84	33137	17.43	ug/L	99
26) 1-chloropropane	7.082	42	49555	17.45	ug/L	90
27) methyl acetate	6.830	74	6678	20.07	ug/L	91
28) methyl tert butyl ether	7.459	73	88327	18.06	ug/L	97
29) trans-1,2-dichloroethene	7.470	96	30118	17.83	ug/L	99
30) di-isopropyl ether	8.188	45	109102	19.91	ug/L	95
31) ethyl tert-butyl ether	8.712	59	102080	19.11	ug/L	99
32) 2-butanone	8.927	72	4401	17.31	ug/L	98
33) 1,1-dichloroethane	8.115	63	56298	18.11	ug/L	99
34) chloroprene	8.262	53	42463	20.66	ug/L	99
35) acrylonitrile	7.375	53	75901	91.77	ug/L	97
36) vinyl acetate	8.151	86	5404	19.44	ug/L	97
37) ethyl acetate	8.990	45	6041	20.40	ug/L	93

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
 Data File : 4d51728.D
 Acq On : 8 Sep 2014 9:30 am
 Operator : PayalR
 Sample : cc2264-20
 Misc : MS73134,V4D2303,5,,,1
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 08 16:00:00 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M4D2264.M
 Quant Title : SW-846 Method 8260B/8260C
 QLast Update : Fri Aug 22 16:59:22 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
38) 2,2-dichloropropane	8.969	77	44527	20.17	ug/L	99
39) cis-1,2-dichloroethene	8.948	96	34217	18.00	ug/L	97
40) propionitrile	8.996	54	64293	181.59	ug/L	98
41) methyl acrylate	9.064	55	33947	17.23	ug/L #	98
42) bromochloromethane	9.273	128	18507	18.74	ug/L	97
43) tetrahydrofuran	9.342	42	11906	17.95	ug/L	98
44) chloroform	9.357	83	57737	18.80	ug/L	99
47) freon 113	6.243	151	23501	22.10	ug/L	95
48) methacrylonitrile	9.221	41	23288	18.43	ug/L	98
49) 1,1,1-trichloroethane	9.651	97	44742	19.75	ug/L	99
50) tert-amyl methyl ether	10.217	73	102781	20.33	ug/L	98
52) epichlorohydrin	11.853	57	24351	110.35	ug/L	98
53) n-butyl alcohol	10.679	56	75049	1078.67	ug/L	98
54) cyclohexane	9.751	84	39073	18.99	ug/L	96
56) carbon tetrachloride	9.876	117	41458	21.33	ug/L	98
57) 1,1-dichloropropene	9.850	75	41771	20.23	ug/L	98
58) hexane	7.900	57	38109	24.67	ug/L	99
59) benzene	10.123	78	120527	19.97	ug/L	99
60) ISO-OCTANE	10.212	57	116110	27.04	ug/L	98
61) heptane	10.401	57	24333	23.98	ug/L	98
62) isopropyl acetate	10.107	43	74885	21.62	ug/L	96
63) 1,2-dichloroethane	10.118	62	44090	21.43	ug/L	99
64) trichloroethene	10.894	95	31927	19.84	ug/L	99
66) 2-nitropropane	11.696	43	10508	19.10	ug/L	99
67) 2-chloroethyl vinyl ether	11.759	63	142171	108.63	ug/L	99
68) methyl methacrylate	11.219	41	31183	19.41	ug/L	99
69) 1,2-dichloropropane	11.161	63	33750	19.20	ug/L	95
70) methylcyclohexane	11.161	83	50578	22.82	ug/L	98
72) dibromomethane	11.303	93	24446	20.21	ug/L	99
73) bromodichloromethane	11.460	83	45695	20.15	ug/L	99
74) cis-1,3-dichloropropene	11.968	75	53588	19.16	ug/L	96
76) 4-methyl-2-pentanone	12.105	58	16658	18.46	ug/L #	85
77) toluene	12.377	92	71885	19.95	ug/L	100
78) 3-methyl-1-butanol	12.120	70	26639	430.65	ug/L	100
79) trans-1,3-dichloropropene	12.571	75	51453	19.05	ug/L	96
80) ethyl methacrylate	12.624	69	42853	17.37	ug/L	99
81) 1,1,2-trichloroethane	12.792	83	28780	18.19	ug/L	99
82) 2-hexanone	13.022	58	16141	18.12	ug/L	90
84) tetrachloroethene	13.007	166	35478	20.49	ug/L	99
85) 1,3-dichloropropane	12.991	76	50867	18.59	ug/L	98
86) butyl acetate	13.127	56	27653	20.88	ug/L	93
87) dibromochloromethane	13.263	129	41060	19.47	ug/L	98
88) 1,2-dibromoethane	13.421	107	35893	18.84	ug/L	99
90) chlorobenzene	13.945	112	87373	19.37	ug/L	98
91) 1,1,1,2-tetrachloroethane	14.013	131	33774	19.35	ug/L	99
92) ethylbenzene	14.034	91	141624	19.82	ug/L	99
93) m,p-xylene	14.155	106	107599	40.47	ug/L	97
94) o-xylene	14.595	106	53890	19.31	ug/L	98
95) styrene	14.600	104	90254	19.03	ug/L	99
97) bromoform	14.836	173	33128	18.80	ug/L	98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
 Data File : 4d51728.D
 Acq On : 8 Sep 2014 9:30 am
 Operator : PayalR
 Sample : cc2264-20
 Misc : MS73134,V4D2303,5,,,,,1
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 08 16:00:00 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M4D2264.M
 Quant Title : SW-846 Method 8260B/8260C
 QLast Update : Fri Aug 22 16:59:22 2014
 Response via : Initial Calibration

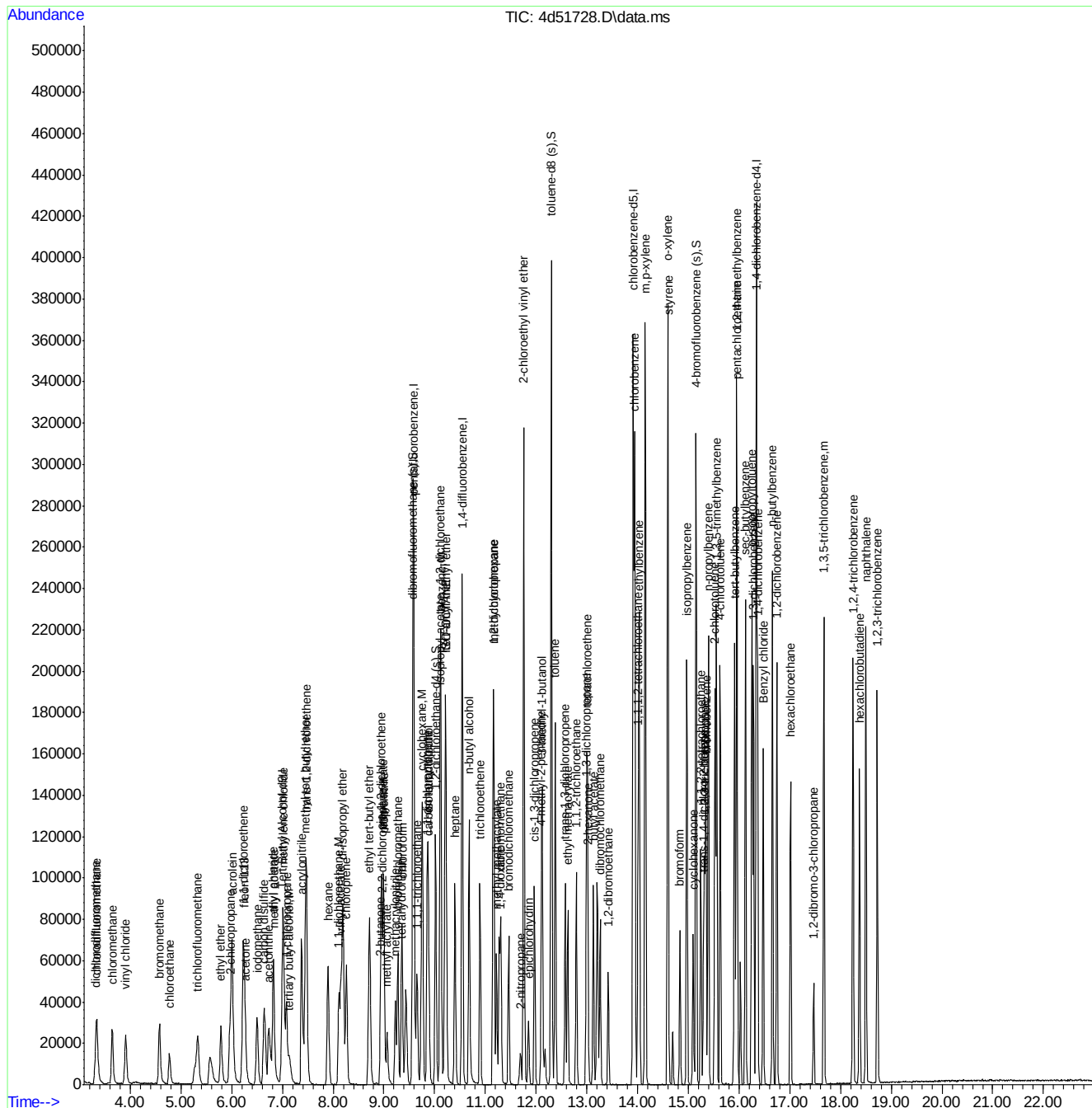
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
99) isopropylbenzene	14.973	105	137697	19.77	ug/L	99
101) bromobenzene	15.350	156	40865	18.41	ug/L	88
102) cyclohexanone	15.093	55	30357	148.77	ug/L	97
103) 1,1,2,2-tetrachloroethane	15.245	83	57028	17.12	ug/L	99
104) trans-1,4-dichloro-2-b...	15.298	53	13194	18.80	ug/L	90
105) 1,2,3-trichloropropane	15.324	110	13013	19.23	ug/L	95
106) n-propylbenzene	15.397	91	163364	19.55	ug/L	100
107) 2-chlorotoluene	15.523	126	35842	18.95	ug/L	98
108) 4-chlorotoluene	15.628	91	104859	18.71	ug/L	99
109) 1,3,5-trimethylbenzene	15.555	105	117825	19.77	ug/L	100
110) tert-butylbenzene	15.911	119	100571	19.73	ug/L	99
111) pentachloroethane	15.958	167	28103	19.91	ug/L	97
112) 1,2,4-trimethylbenzene	15.953	105	118506	19.55	ug/L	100
113) sec-butylbenzene	16.126	105	158508	20.14	ug/L	100
114) 1,3-dichlorobenzene	16.283	146	77620	19.28	ug/L	99
115) p-isopropyltoluene	16.252	119	129037	20.38	ug/L	99
116) 1,4-dichlorobenzene	16.367	146	78463	18.51	ug/L	99
117) 1,2-dichlorobenzene	16.745	146	77139	18.32	ug/L	99
118) n-butylbenzene	16.656	92	68653	19.94	ug/L	98
119) 1,2-dibromo-3-chloropr...	17.474	75	11044	19.22	ug/L	92
120) 1,3,5-trichlorobenzene	17.673	180	67367	19.94	ug/L	100
121) 1,2,4-trichlorobenzene	18.244	180	61046	19.23	ug/L	99
122) hexachlorobutadiene	18.375	225	31788	21.59	ug/L	98
123) naphthalene	18.501	128	162980	18.58	ug/L	99
124) 1,2,3-trichlorobenzene	18.727	180	60073	19.23	ug/L	100
125) hexachloroethane	17.012	119	28847	19.50	ug/L	98
126) Benzyl chloride	16.477	91	106408	22.99	ug/L	100

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 4d51728.D
Acq On : 8 Sep 2014 9:30 am
Operator : PayalR
Sample : cc2264-20
Misc : MS73134,V4D2303,5,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 08 16:00:00 2014
Quant Method : C:\MSDCHEM\1\METHODS\M4D2264.M
Quant Title : SW-846 Method 8260B/8260C
QLast Update : Fri Aug 22 16:59:22 2014
Response via : Initial Calibration



7.6.24





VOLATILE ANALYSIS LOG

Batch ID: V3C5053Date: 7/28/14Print Analyst Name: Prosser B ShukelAnalyst Signature: [Signature]

Standard Data

Lot #	Description	Conc.
1861-125	Acrolein	1000 PPM
123	Ext Acrolein	↓
131	Int STD	23200 PPM
719	Sum.	100 PPM
96	AP9	100 PPM

Standard Data

Lot #	Description	Conc.
1861-125	Std A	100 PPM
134	B	↓
136	C	↓
100	Ext A	↓
94	B	↓
130	C	↓

Columns: 2B62Method V8260 B/CInitial Cal. Method M3C5053

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: [Signature]Date: 7/29/14

R	Data File	Sample ID	Test	MTX	Vial #	ALS #	Sample Amt (ml or g)	MOH amt. (ul)	Secondary dilution	L	I	S	Status (Data)	Comments	pH < 2
96	112038	BFB	JUNE	S		1	5						OK	11-25 AM.	
	112039	IC5053-0.2	IC8260			2	5						OK	Std A,B,C, AC, AP9, Sum	200 ml DI H ₂ O
	112040	IC5053-0.5	IC8260			3	5						OK	Std A,B,C, AC, AP9, Sum	200 ml DI H ₂ O
	112041	IC5053-1	IC8260			4	5						OK	Std A,B,C, Sum, AC, AP9	100 ml DI H ₂ O
	112042	IC5053-2	IC8260			5	5						OK	Std A,B,C, Sum, AC, AP9	100 ml DI H ₂ O
	112043	IC5053-5	IC8260			6	5						OK	Std A,B,C, AC, AP9, Sum	100 ml DI H ₂ O
	112044	IC5053-10	IC8260			7	5						OK	Std A,B,C, AC, AP9, Sum	100 ml DI H ₂ O
	112045	IC5053-20	IC8260			8	5						OK	Std A,B,C, AC, AP9, Sum	100 ml DI H ₂ O
	112046	IC5053-50	IC8260			9	5						OK	Std A,B,C, AC, AP9, Sum	100 ml DI H ₂ O
	112047	IC5053-100	IC8260			10	5						OK	Std A,B,C, AC, AP9, Sum	100 ml DI H ₂ O
	112048	IC5053-200	IC8260			11	5						OK	Std A,B,C, Sum, AC, AP9	100 ml DI H ₂ O
	112049	IB				12							-		
	112050	IB				13							-		
	112051	IC5053-50	IC8260			14	5						OK		
	112052	IB				15							-		
	112053	IB				16							-		

MTX = Matrix Designate W for water, S for soil, O for oil. L+ = Library Search. IS = Internal Standard Area. SU = Surrogate.

Sample Amt = Volume (ML) or Weight (g); MOH amt. = volume (ul) extract injected * IF pH > 2, comment on sample result.

All strike outs must be initialed, dated and reason code applied as follows: 1 = reviewer correction error; 2 = transcription error; 3 = computer miscalculation; 4 = analyst's correction error

Form: OR001-9

Rev. Date: 2/14/2007

11



ACCUTEST

VOLATILE ANALYSIS LOG

Batch ID: V3C5123

Print Analyst Name: Robert Scot

Analyst Signature: [Signature]

Columns: 2B-624 (60mm x 0.25mm x 1.4um)

Method V8260C

Initial Cal. Method M3C5053

Date: 9/8/14

Standard Data

Lot #	Description	Conc.
Vol 1918-31	A	100 ppm
-39	B	100
-64	C	100
-34	Acrolein	1000
-58	2500 ISLUR	2500/2500

Standard Data

Lot #	Description	Conc.
Vol 1918-4	Ext A	100 ppm
-66	Ext B	100
-67	Ext C	100
-37	Ext Acrolein	1000
-62	Ext Hexane	100 ppm

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: [Signature]

Date: 9/11/14

R	Data File	Sample ID	Test	MTX	Vial #	ALS #	Samp. Amt (ml or g)	MOH amt. (ul)	Secondary dilution	L	I	S	Status (Data)	Comments	pH < 2
	3C113330	BFB				1	5						OK	12:53 PM	
	3C113331	CC5053-20				2	5						OK	10ml A+B+C, Acrolein → 5ml	
	3C113332	IB				3							—		
	3C113333	MB				4	5						OK		
	3C113334	BS				5	5						OK	2.5ml Ext A, Ext B, Ext C, Ext Acrolein → 5ml	
	3C113335	IB				6							—		
	3C113336	J875844-2	73404 STAR	S	3	7	5.3/5ml	100					OK	DL due to matrix	
	3C113337	J875844-1			3	8	5.0/5ml	100					OK		
	3C113338	J875844-3			3	9	4.8/5ml	100					OK		
	3C113339	J875788-3	73402 STAR	S	1	10	10.1/10ml	100					OK		
A	3C113340	J875631-1	73315 TCC203	S	5	11	4.1g/10ml	100					OK	DL due to high non target	
	3C113341	J875844-2ms	73404 STAR	S	3	12	5.3/5ml	100					OK	2.5ml A, B, C, Acrolein → Sample	
	3C113342	J875844-2msD			3	13	5.3/5ml	100					OK		
	3C113343	IB				14							—		
	3C113344	IB				15							—		
	3C113345	IB				16							—		
														AS 9/11/14	

MTX = Matrix Designate W for water, S for soil, O for oil. L+ = Library Search. IS = Internal Standard Area. SU = Surrogate.

Sample Amt = Volume (ML) or Weight (g); MOH amt. = volume (ul) extract injected * IF pH > 2, comment on sample result.

All strike outs must be initialed, dated and reason code applied as follows: 1 = reviewer correction error; 2 = transcription error; 3 = computer miscalculation; 4 = analyst's correction error

Form: OR001-9

Rev. Date: 2/14/2007

241



VOLATILE ANALYSIS LOG

Batch ID: V3C5124Print Analyst Name: Robert ScotAnalyst Signature: [Signature]Columns: 2B-624 (60m x 0.25mm x 1.4um)Method V8260 CInitial Cal. Method M3C5053Date: 9/8/14

Standard Data

Lot #	Description	Conc.
Vol 4-1912-31	A	100 ppm
-34	B	100
-69	C	100
-34	Acrolein	1000
-58	8260 IS/SUR	250/2500

Standard Data

Lot #	Description	Conc.
Vol 4-1912-31	Ext A	100 ppm
-66	Ext B	100
-67	Ext C	100
-37	Ext Acrolein	1000

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: [Signature]Date: 9/11/14

R	Data File	Sample ID	Test	MTX	Vial #	ALS #	Sample Amt (ml or g)	MOH amt. (ul)	Secondary dilution	L	I	S	Status (Data)	Comments	pH* < 2
	3C113346	MB				17	5						OK		
	3C113347	BS				18	5						OK	2.5ml Ext A, Ext B, Ext C, Ext A Acrolein 750ul	
	3C113348	JB75788-8MS	73402 STAR	S	1	19	5.0						OK	2.5ml A, B, C, Acrolein 750ul sample	
	3C113349	JB75788-8MS			1	20	5.0						OK		
	3C113350	IB				21							OK		
	3C113351	JB75788-8	73402 STAR	S	1	22	5.0						OK		
	3C113352	JB75692-1	73402 STAR	S	7	23	4.3						OK		
	3C113353	JB75844-4	73402 STAR	S	4	24	4.5						OK		
	3C113354	JB75844-5			4	25	4.6						OK	12.28 Am	
	3C113355	IB				26							OK	Clean up Blank	
	3C113356	BFB				27	5						OK	12h Am	
	3C113357	CC5053-50				28	5						OK	2.5ml A, B, C, Acrolein 750ul	
	3C113358	IB				29							OK		
	3C113359	MB2				30	5						OK		
	3C113360	JB75788-4	73402 STAR	S	1	31	5.3						OK		
	3C113361	JB75788-5			1	32	5.2						OK		
	3C113362	JB75788-6			1	33	5.5						OK		

MTX = Matrix Designate W for water, S for soil, O for oil. L+ = Library Search. IS = Internal Standard Area. SU = Surrogate.

Sample Amt = Volume (ML) or Weight (g); MOH amt. = volume (ul) extract injected * IF pH > 2, comment on sample result.

All strike outs must be initialed, dated and reason code applied as follows: 1 = reviewer correction error; 2 = transcription error; 3 = computer miscalculation; 4 = analyst's correction error

Form: OR001-9
Rev. Date: 2/14/2007

243

Batch ID: V3C5/24

Print Analyst Name: Robert Stot

Analyst Signature: [Signature]

Columns: ZB-624 (600 x 0.15 mm x 4 mm)

Method V8260C

Initial Cal. Method m3c5053

Date: 9/8/14

Standard Data

Lot #	Description	Conc.
	See	page

Standard Data

Lot #	Description	Conc.
243		

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature:

Platch

Date: 9/9/14

[illegible]

MTX=Matrix Designate W for water, S for soil, O for oil. L+=Library Search. IS= Internal Standard Area. SU= Surrogate.
Sample Amt= Volume (ML) or Weight (g); MOH amt.= volume (ul) extract injected * IF pH > 2, comment on sample result .
All strike outs must be initialed, dated and reason code applied as follows: 1= reviewer correction error; 2 = transcription error; 3 = computer miscalculation; 4 = analyst's correction error

Form: OR001-9
Rev. Date: 2/14/2007

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ACCUTEST.

VOLATILE ANALYSIS LOG

Batch ID: V4D2264

Print Analyst Name: Layla Lane

Analyst Signature: Layla Lane

Columns: DB624 (60m x 0.25mm x 1/4in)

Method V8160 C 8/5/2014

Initial Cal. Method M4D2264

Date: 8/4/2014

Standard Data

Lot #	Description	Conc.
014-1861-14	EXT A	100 PPM
137	B	
148	C	
125	Acetone	100 PPM
151	Internal only	100 PPM

Standard Data

Lot #	Description	Conc.
014-1861-14	STD A	100 PPM
137	B	
014-1861-66	C	
014-1861-135	Acetone	100 PPM
014-1861-13	Hexane	100 PPM

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest

SOP EQA044
014-1861-146

Supervisor Signature: [Signature]

Date: 8/5/2014

R	Data File	Sample ID	Test	MTX	Vial #	ALS #	Samp. Amt (ml or g)	MOH amt. (ul)	Secondary dilution	L I S + S U	Status (Data)	Comments	pH < 2
	74D50729	137-B	71470			1	S		1X		OK		12:17 PM
	50730	IC2264-0.2	8260 Initial	A		2	S		1X		OK	0.251 STD ABC AC Surrogate 9100 M02	
	50731	IC2264-0.5				3	S		1X		NG	0.501	
	50732	IC2264-1				4	S		1X		NG	1.01 STD ABC Surrogate 1000 M02 AC	
	50733	IC2264-2				5	S		1X		OK	2.01 STD ABC Surrogate 2000 M02 AC	
	50734	IC2264-5				6	S		1X		OK	5.01 STD ABC AC 9100 M02	
	50735	IC2264-10				7	S		1X		OK	10.01	
	50736	IC2264-20				8	S		1X		OK	20.01 Surrogate	
	50737	IC2264-50				9	S		1X		OK	25.01	
	50738	IC2264-100				10	S		1X		OK	50.01	
	50739	IC2264-200				11	S		1X			100.01	
	50740	IB				12	S		1X		FO		
	50741	IB				13	S		1X				
	50742	IB				14	S		1X				
	50743	IC2264-0.5	8260 Initial	A		15	S		1X		OK	0.501 STD ABC AC Surrogate 9100 M02	
	50744	IC2264-1				16	S		1X		OK	1.01 STD ABC Surrogate 1000 M02 AC	
	50745	IC2264-50				17	S		1X		OK	25.01 EXT ABC AC Surrogate 9500 M02 Hexane	

MTX = Matrix Designate W for water, S for soil, O for oil. L+ = Library Search. IS = Internal Standard Area. SU = Surrogate.

Sample Amt = Volume (ML) or Weight (g); MOH amt. = volume (ul) extract injected * IF pH > 2, comment on sample result.

All strike outs must be initialed, dated and reason code applied as follows: 1 = reviewer correction error; 2 = transcription error; 3 = computer miscalculation; 4 = analyst's correction error

Form: OR001-9

Rev. Date: 2/14/2007

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VOLATILE ANALYSIS LOG

Batch ID: V4D2303Date: 9/8/2014Print Analyst Name: Payal PareAnalyst Signature: Payal PareColumns: DB24 (60x0.25mmx) 9umMethod V8360 CInitial Cal. Method M402264

Standard Data		
Lot #	Description	Conc.
141518-47	EXT A	1000/10
66	B	
67	C	
37	Agrolisw	1000/10
46	LS	250/1000/10

Standard Data		
Lot #	Description	Conc.
141519-3	S70A	1000/10
33	B	
61	C	
34	Agrolisw	1000/10
21213	PH paper	425/1116

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: [Signature] Date: 9/9/2014

R	Data File	Sample ID	Test	MTX	Vial #	ALS #	Samp. Amt (ml or g)	MOH amt. (ul)	Secondary dilution	L I S + S U	Status (Data)	Comments	pH* <2
	4051727	BBB				1	S		1X		OK	8:58AM	
	51728	CC2164-20				2	S		1X		OK		
	51729	MB				3	S		1X		OK		
	51730	BS				4	S		1X		OK		
	51731	IB				5	S		1X		OK		
R	51732	JB75421-8	73127 STAR		1	6	S		1X		OK		✓
R	51733	JB75421-4	73127 BTX M		1	7	S		1X		OK		✓
	51734	JB75332-3	73093 STAR		2	8	5/50		10X		OK		✓
	51735	JB75315-1	73134 X32, ETHANOL		4	9	10/50		5X		OK	dilution due to foaming	✓
✓	51736	JB75315-2			4	10	1/50		50X		OK	RR 200X	6
R	51737	JB75421-2			4	11	0.25/50		200X		OK		6
R	51738	JB75421-2	73127 BTX M		1	12	S		1X		OK		✓
R	51739	JB75421-1			1	13	S		1X		OK	+ U 187311	✓
	51740	JB75421-3			1	14	10/50		5X		OK		✓
✓	51741	JB75421-4MS			1/2	15	S		1X		OK		✓
✓	51742	JB75421-4MS			1/2	16	S		1X		OK		✓
	51743	IB				17	S		1X		OK		

MTX = Matrix Designate W for water, S for soil, O for oil. L+ = Library Search. IS = Internal Standard Area. SU = Surrogate.

Sample Amt = Volume (ML) or Weight (g); MOH amt. = volume (ul) extract injected * IF pH > 2, comment on sample result.

All strike outs must be initialed, dated and reason code applied as follows: 1 = reviewer correction error; 2 = transcription error; 3 = computer miscalculation; 4 = analyst's correction error

Form: OR001-9
Rev. Date: 2/14/2007

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VOLATILE ANALYSIS LOG

Batch ID: V 402503

Date: 9/8/2019

Print Analyst Name: Payal Kane

Analyst Signature: S. J. J. J. J.

Columns: 026 24 (60m x 0.25cm x 1.44m)

Method V8260C

Initial Cal. Method M402P64

Standard Data

[illegible]

Standard Data

Lot #	Description	Conc.
Page 193		

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: [Signature] Date: 9/8/2014

[illegible]

MTX = Matrix. Designate W for water, S for soil, O for oil. L+ = Library Search. IS = Internal Standard Area. SU = Surrogate.

Sample Amt = Volume (ML) or Weight (g); MOH amt.= volume (ul) extract injected * IF pH > 2, comment on sample result.

All strike outs must be initiated, dated and reason code applied as follows: 1 = reviewer correction error; 2 = transcription error; 3 = computer miscalculation; 4 = analyst's correction error

Form: OR001-9
Rev. Date: 2/14/2007

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GC/MS Semi-volatiles

QC Data Summaries

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Includes the following where applicable:

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

Method Blank Summary

Job Number: JB75844

Account: LANGAN Langan Engineering & Environmental

Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP77866-MB1	Z95249.D	1	09/08/14	SW	09/08/14	OP77866	EZ4729

The QC reported here applies to the following samples:

Method: SW846 8270D

JB75844-1, JB75844-2, JB75844-3, JB75844-4, JB75844-5

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	29	8.3	ug/kg	
208-96-8	Acenaphthylene	ND	29	9.1	ug/kg	
120-12-7	Anthracene	ND	29	10	ug/kg	
56-55-3	Benzo(a)anthracene	ND	29	9.3	ug/kg	
50-32-8	Benzo(a)pyrene	ND	29	8.7	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	29	9.5	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	29	11	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	29	11	ug/kg	
218-01-9	Chrysene	ND	29	9.7	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	29	9.7	ug/kg	
206-44-0	Fluoranthene	ND	29	13	ug/kg	
86-73-7	Fluorene	ND	29	9.4	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	29	9.9	ug/kg	
91-20-3	Naphthalene	ND	29	7.8	ug/kg	
85-01-8	Phenanthrene	ND	29	13	ug/kg	
129-00-0	Pyrene	ND	29	11	ug/kg	

CAS No.	Surrogate Recoveries	Limits
367-12-4	2-Fluorophenol	48% 13-110%
4165-62-2	Phenol-d5	54% 15-110%
118-79-6	2,4,6-Tribromophenol	40% 20-123%
4165-60-0	Nitrobenzene-d5	52% 10-110%
321-60-8	2-Fluorobiphenyl	44% 17-110%
1718-51-0	Terphenyl-d14	50% 30-124%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	system artifact/aldol-condensation	2.03	710	ug/kg	J
	Total TIC, Semi-Volatile		0	ug/kg	

Method Blank Summary

Job Number: JB75844

Account: LANGAN Langan Engineering & Environmental

Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP77878-MB1	2P40504.D	1	09/09/14	SP	09/08/14	OP77878	E2P1697

The QC reported here applies to the following samples:

Method: SW846 8270D

JB75844-6

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	1.0	0.30	ug/l	
208-96-8	Acenaphthylene	ND	1.0	0.20	ug/l	
120-12-7	Anthracene	ND	1.0	0.19	ug/l	
56-55-3	Benzo(a)anthracene	ND	1.0	0.22	ug/l	
50-32-8	Benzo(a)pyrene	ND	1.0	0.24	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	1.0	0.22	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	1.0	0.31	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	1.0	0.22	ug/l	
218-01-9	Chrysene	ND	1.0	0.16	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	1.0	0.28	ug/l	
206-44-0	Fluoranthene	ND	1.0	0.16	ug/l	
86-73-7	Fluorene	ND	1.0	0.27	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	1.0	0.40	ug/l	
91-20-3	Naphthalene	ND	1.0	0.27	ug/l	
85-01-8	Phenanthrene	ND	1.0	0.19	ug/l	
129-00-0	Pyrene	ND	1.0	0.19	ug/l	

CAS No.	Surrogate Recoveries	Limits
367-12-4	2-Fluorophenol	52% 10-110%
4165-62-2	Phenol-d5	35% 10-110%
118-79-6	2,4,6-Tribromophenol	87% 29-139%
4165-60-0	Nitrobenzene-d5	74% 28-131%
321-60-8	2-Fluorobiphenyl	72% 30-121%
1718-51-0	Terphenyl-d14	87% 16-147%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	system artifact	1.47	21	ug/l	J
	system artifact	1.67	74	ug/l	J
	system artifact	1.83	8.7	ug/l	J
	Internal standard added for SIM test	6.32	4.4	ug/l	J
	Internal standard added for SIM test	7.55	4	ug/l	J
	Internal standard added for SIM test	9.73	4.3	ug/l	J

Method Blank Summary

Job Number: JB75844
Account: LANGAN Langan Engineering & Environmental
Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP77878-MB1	2P40504.D	1	09/09/14	SP	09/08/14	OP77878	E2P1697

The QC reported here applies to the following samples: Method:

JB75844-6

CAS No.	Tentatively Identified Compounds	R. T.	Est. Conc.	Units	Q
	Internal standard added for SIM test	13.61	4.2	ug/l	J
	Total TIC, Semi-Volatile		0	ug/l	

8.1.2
8

Method Blank Summary

Job Number: JB75844

Account: LANGAN Langan Engineering & Environmental

Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP77866-MB1	2P40507.D	1	09/09/14	SP	09/08/14	OP77866	E2P1697

The QC reported here applies to the following samples:

Method: SW846 8270D

JB75844-1, JB75844-2, JB75844-3, JB75844-4, JB75844-5

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	29	8.3	ug/kg	
208-96-8	Acenaphthylene	ND	29	9.1	ug/kg	
120-12-7	Anthracene	ND	29	10	ug/kg	
56-55-3	Benzo(a)anthracene	ND	29	9.3	ug/kg	
50-32-8	Benzo(a)pyrene	ND	29	8.7	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	29	9.5	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	29	11	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	29	11	ug/kg	
218-01-9	Chrysene	ND	29	9.7	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	29	9.7	ug/kg	
206-44-0	Fluoranthene	ND	29	13	ug/kg	
86-73-7	Fluorene	ND	29	9.4	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	29	9.9	ug/kg	
91-20-3	Naphthalene	ND	29	7.8	ug/kg	
85-01-8	Phenanthrene	ND	29	13	ug/kg	
129-00-0	Pyrene	ND	29	11	ug/kg	

CAS No.	Surrogate Recoveries	Limits
367-12-4	2-Fluorophenol	96% 13-110%
4165-62-2	Phenol-d5	90% 15-110%
118-79-6	2,4,6-Tribromophenol	92% 20-123%
4165-60-0	Nitrobenzene-d5	94% 10-110%
321-60-8	2-Fluorobiphenyl	91% 17-110%
1718-51-0	Terphenyl-d14	100% 30-124%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	system artifact	1.49	400	ug/kg	J
	system artifact	1.68	170	ug/kg	J
	system artifact/aldol-condensation	3.23	1100	ug/kg	J
	Total TIC, Semi-Volatile		0	ug/kg	

Method Blank Summary

Job Number: JB75844

Account: LANGAN Langan Engineering & Environmental

Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP77878-MB1	P88856.D	1	09/09/14	AD	09/08/14	OP77878	EP3796

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

JB75844-6

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	1.0	0.30	ug/l	
208-96-8	Acenaphthylene	ND	1.0	0.20	ug/l	
120-12-7	Anthracene	ND	1.0	0.19	ug/l	
56-55-3	Benzo(a)anthracene	ND	1.0	0.22	ug/l	
50-32-8	Benzo(a)pyrene	ND	1.0	0.24	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	1.0	0.22	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	1.0	0.31	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	1.0	0.22	ug/l	
218-01-9	Chrysene	ND	1.0	0.16	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	1.0	0.28	ug/l	
206-44-0	Fluoranthene	ND	1.0	0.16	ug/l	
86-73-7	Fluorene	ND	1.0	0.27	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	1.0	0.40	ug/l	
91-20-3	Naphthalene	ND	1.0	0.27	ug/l	
85-01-8	Phenanthrene	ND	1.0	0.19	ug/l	
129-00-0	Pyrene	ND	1.0	0.19	ug/l	

CAS No.	Surrogate Recoveries	Limits
367-12-4	2-Fluorophenol	45% 10-110%
4165-62-2	Phenol-d5	33% 10-110%
118-79-6	2,4,6-Tribromophenol	86% 29-139%
4165-60-0	Nitrobenzene-d5	67% 28-131%
321-60-8	2-Fluorobiphenyl	70% 30-121%
1718-51-0	Terphenyl-d14	77% 16-147%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	system artifact	1.42	27	ug/l	J
	system artifact	1.47	16	ug/l	J
	system artifact	1.60	64	ug/l	J
	system artifact	1.66	7	ug/l	J
	Internal standard added for SIM test	7.17	4.2	ug/l	J
	Internal standard added for SIM test	9.52	4.1	ug/l	J

Method Blank Summary

Job Number: JB75844
Account: LANGAN Langan Engineering & Environmental
Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP77878-MB1	P88856.D	1	09/09/14	AD	09/08/14	OP77878	EP3796

The QC reported here applies to the following samples: Method:

JB75844-6

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

8.1.4
8

Blank Spike Summary

Job Number: JB75844
Account: LANGAN Langan Engineering & Environmental
Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP77878-BS1	2P40505.D	1	09/09/14	SP	09/08/14	OP77878	E2P1697

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

JB75844-6

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
83-32-9	Acenaphthene	50	38.0	76	46-108
208-96-8	Acenaphthylene	50	29.4	59	44-101
120-12-7	Anthracene	50	40.7	81	60-117
56-55-3	Benzo(a)anthracene	50	40.8	82	59-116
50-32-8	Benzo(a)pyrene	50	41.8	84	61-122
205-99-2	Benzo(b)fluoranthene	50	43.5	87	56-129
191-24-2	Benzo(g,h,i)perylene	50	36.6	73	54-126
207-08-9	Benzo(k)fluoranthene	50	42.8	86	53-124
218-01-9	Chrysene	50	43.1	86	58-121
53-70-3	Dibenzo(a,h)anthracene	50	37.9	76	57-126
206-44-0	Fluoranthene	50	41.4	83	59-120
86-73-7	Fluorene	50	41.0	82	53-114
193-39-5	Indeno(1,2,3-cd)pyrene	50	37.2	74	56-127
91-20-3	Naphthalene	50	30.1	60	35-101
85-01-8	Phenanthrene	50	40.4	81	58-113
129-00-0	Pyrene	50	41.2	82	56-120

CAS No.	Surrogate Recoveries	BSP	Limits
367-12-4	2-Fluorophenol	63%	10-110%
4165-62-2	Phenol-d5	46%	10-110%
118-79-6	2,4,6-Tribromophenol	94%	29-139%
4165-60-0	Nitrobenzene-d5	84%	28-131%
321-60-8	2-Fluorobiphenyl	83%	30-121%
1718-51-0	Terphenyl-d14	98%	16-147%

* = Outside of Control Limits.

Blank Spike Summary

Page 1 of 1

Job Number: JB75844**Account:** LANGAN Langan Engineering & Environmental**Project:** Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP77866-BS1	2P40508.D	1	09/09/14	SP	09/08/14	OP77866	E2P1697

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

JB75844-1, JB75844-2, JB75844-3, JB75844-4, JB75844-5

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
83-32-9	Acenaphthene	1430	1170	82	46-110
208-96-8	Acenaphthylene	1430	919	64	43-103
120-12-7	Anthracene	1430	1200	84	56-118
56-55-3	Benzo(a)anthracene	1430	1170	82	56-117
50-32-8	Benzo(a)pyrene	1430	1200	84	56-124
205-99-2	Benzo(b)fluoranthene	1430	1200	84	53-127
191-24-2	Benzo(g,h,i)perylene	1430	1090	76	52-126
207-08-9	Benzo(k)fluoranthene	1430	1200	84	51-122
218-01-9	Chrysene	1430	1230	86	54-121
53-70-3	Dibenzo(a,h)anthracene	1430	1100	77	53-126
206-44-0	Fluoranthene	1430	1200	84	55-119
86-73-7	Fluorene	1430	1210	85	51-114
193-39-5	Indeno(1,2,3-cd)pyrene	1430	1080	76	53-128
91-20-3	Naphthalene	1430	1100	77	37-104
85-01-8	Phenanthrene	1430	1190	83	55-113
129-00-0	Pyrene	1430	1210	85	54-120

CAS No.	Surrogate Recoveries	BSP	Limits
367-12-4	2-Fluorophenol	88%	13-110%
4165-62-2	Phenol-d5	82%	15-110%
118-79-6	2,4,6-Tribromophenol	91%	20-123%
4165-60-0	Nitrobenzene-d5	85%	10-110%
321-60-8	2-Fluorobiphenyl	84%	17-110%
1718-51-0	Terphenyl-d14	95%	30-124%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Page 1 of 1

Job Number: JB75844

Account: LANGAN Langan Engineering & Environmental

Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP77866-MS ^a	2P40518.D	1	09/09/14	SP	09/08/14	OP77866	E2P1697
OP77866-MSD ^a	2P40519.D	1	09/09/14	SP	09/08/14	OP77866	E2P1697
JB75844-1 ^a	Z95253.D	1	09/08/14	SW	09/08/14	OP77866	EZ4729

The QC reported here applies to the following samples:

Method: SW846 8270D

JB75844-1, JB75844-2, JB75844-3, JB75844-4, JB75844-5

CAS No.	Compound	JB75844-1 ug/kg	Spike Q	ug/kg	MS ug/kg	MS %	Spike ug/kg	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
83-32-9	Acenaphthene	1010		1850	3130	100	1830	5500	231* ^b	55* ^c	25-106/38
208-96-8	Acenaphthylene	ND		1850	1830	99	1830	2750	151* ^b	40* ^c	21-110/39
120-12-7	Anthracene	609		1850	2300	81	1830	3740	161* ^b	48* ^c	27-123/40
56-55-3	Benzo(a)anthracene	572		1850	1870	72	1830	2560	111	31	22-127/44
50-32-8	Benzo(a)pyrene	505		1850	1760	67	1830	2490	108	34	22-132/42
205-99-2	Benzo(b)fluoranthene	563		1850	1830	70	1830	2480	106	30	17-141/45
191-24-2	Benzo(g,h,i)perylene	519		1850	1500	56	1830	2040	86	31	23-129/42
207-08-9	Benzo(k)fluoranthene	198		1850	1570	75	1830	2120	106	30	20-124/44
218-01-9	Chrysene	568		1850	1870	71	1830	2620	113	33	21-131/42
53-70-3	Dibenzo(a,h)anthracene	115	J	1850	1040	52	1830	1430	74	32	26-129/42
206-44-0	Fluoranthene	1020		1850	2090	65	1830	3040	118	37	16-134/44
86-73-7	Fluorene	1530		1850	3820	111	1830	7150	295* ^b	61* ^c	24-116/39
193-39-5	Indeno(1,2,3-cd)pyrene	395		1850	1290	55	1830	1730	79	29	23-132/43
91-20-3	Naphthalene	ND		1850	2120	115* ^b	1830	2150	118* ^b	1	13-103/41
85-01-8	Phenanthrene	2840		1850	5830	148* ^b	1830	11300	449* ^b	64* ^c	19-126/42
129-00-0	Pyrene	1420		1850	3170	86	1830	4930	184* ^b	43	17-136/45

CAS No.	Surrogate Recoveries	MS	MSD	JB75844-1	Limits
367-12-4	2-Fluorophenol	74%	90%		13-110%
4165-62-2	Phenol-d5	77%	99%		15-110%
118-79-6	2,4,6-Tribromophenol	104%	146%* ^b		20-123%
4165-60-0	Nitrobenzene-d5	98%	128%* ^b	105%	10-110%
321-60-8	2-Fluorobiphenyl	80%	106%	84%	17-110%
1718-51-0	Terphenyl-d14	87%	116%	97%	30-124%

(a) Elevated detection limit due to high final volume of viscous extract.

(b) Outside control limits due to matrix interference and dilution.

(c) Outside control limits due to matrix interference.

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

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Job Number: JB75844

Account: LANGAN Langan Engineering & Environmental

Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP77878-MS	2P40520.D	1	09/09/14	SP	09/08/14	OP77878	E2P1697
OP77878-MSD	2P40521.D	1	09/09/14	SP	09/08/14	OP77878	E2P1697
JB75564-2	2P40523.D	1	09/09/14	SP	09/08/14	OP77878	E2P1697

The QC reported here applies to the following samples:

Method: SW846 8270D

JB75844-6

CAS No.	Compound	JB75564-2 ug/l	Spike Q ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
83-32-9	Acenaphthene	ND	100	77.0	77	100	75.0	75	3	41-112/29
208-96-8	Acenaphthylene	ND	100	59.5	60	100	58.3	58	2	42-101/29
120-12-7	Anthracene	ND	100	79.4	79	100	78.0	78	2	52-122/26
56-55-3	Benzo(a)anthracene	ND	100	79.2	79	100	76.7	77	3	50-122/26
50-32-8	Benzo(a)pyrene	ND	100	76.1	76	100	74.8	75	2	51-127/27
205-99-2	Benzo(b)fluoranthene	ND	100	85.5	86	100	86.3	86	1	47-132/31
191-24-2	Benzo(g,h,i)perylene	ND	100	68.7	69	100	64.9	65	6	47-129/29
207-08-9	Benzo(k)fluoranthene	ND	100	83.1	83	100	82.1	82	1	43-130/29
218-01-9	Chrysene	ND	100	79.2	79	100	78.3	78	1	51-124/27
53-70-3	Dibenzo(a,h)anthracene	ND	100	71.9	72	100	67.4	67	6	49-130/28
206-44-0	Fluoranthene	ND	100	75.1	75	100	75.7	76	1	51-123/27
86-73-7	Fluorene	ND	100	83.8	84	100	79.5	80	5	50-116/26
193-39-5	Indeno(1,2,3-cd)pyrene	ND	100	69.0	69	100	65.5	66	5	48-131/27
91-20-3	Naphthalene	ND	100	61.1	61	100	60.2	60	1	25-108/32
85-01-8	Phenanthrene	ND	100	79.4	79	100	78.3	78	1	51-117/25
129-00-0	Pyrene	ND	100	90.6	91	100	87.7	88	3	45-130/29

CAS No.	Surrogate Recoveries	MS	MSD	JB75564-2	Limits
367-12-4	2-Fluorophenol	71%	71%	48%	10-110%
4165-62-2	Phenol-d5	54%	59%	33%	10-110%
118-79-6	2,4,6-Tribromophenol	98%	94%	88%	29-139%
4165-60-0	Nitrobenzene-d5	87%	80%	79%	28-131%
321-60-8	2-Fluorobiphenyl	90%	84%	83%	30-121%
1718-51-0	Terphenyl-d14	95%	94%	78%	16-147%

* = Outside of Control Limits.

Instrument Performance Check (DFTPP)**Job Number:** JB75844**Account:** LANGAN Langan Engineering & Environmental**Project:** Carroll Gardens, 363-365 Bond Street, Brooklyn, NY**Sample:** E2P1691-DFTPP**Injection Date:** 09/05/14**Lab File ID:** 2P40348.D**Injection Time:** 12:44**Instrument ID:** GCMS2P

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance	Pass/Fail
51	30.0 - 60.0% of mass 198	65005	40.1	Pass
68	Less than 2.0% of mass 69	229	0.14 (0.32) ^a	Pass
69	Mass 69 relative abundance	71909	44.4	Pass
70	Less than 2.0% of mass 69	0	0.00 (0.00) ^a	Pass
127	40.0 - 60.0% of mass 198	79624	49.1	Pass
197	Less than 1.0% of mass 198	129	0.08	Pass
198	Base peak, 100% relative abundance	162117	100.0	Pass
199	5.0 - 9.0% of mass 198	11624	7.17	Pass
275	10.0 - 30.0% of mass 198	34088	21.0	Pass
365	1.0 - 100.0% of mass 198	4938	3.05	Pass
441	Present, but less than mass 443	19345	11.9 (84.9) ^b	Pass
442	40.0 - 100.0% of mass 198	123747	76.3	Pass
443	17.0 - 23.0% of mass 442	22795	14.1 (18.4) ^c	Pass

(a) Value is % of mass 69

(b) Value is % of mass 443

(c) Value is % of mass 442

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

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
E2P1691-IC1691	2P40349.D	09/05/14	12:56	00:12	Initial cal 50
E2P1691-IC1691	2P40350.D	09/05/14	13:25	00:41	Initial cal 100
E2P1691-IC1691	2P40351.D	09/05/14	13:48	01:04	Initial cal 1
E2P1691-IC1691	2P40352.D	09/05/14	14:11	01:27	Initial cal 80
E2P1691-IC1691	2P40353.D	09/05/14	14:34	01:50	Initial cal 2
E2P1691-ICC1691	2P40354.D	09/05/14	14:57	02:13	Initial cal 25
E2P1691-IC1691	2P40355.D	09/05/14	15:21	02:37	Initial cal 5
E2P1691-IC1691	2P40356.D	09/05/14	15:44	03:00	Initial cal 10

Instrument Performance Check (DFTPP)**Job Number:** JB75844**Account:** LANGAN Langan Engineering & Environmental**Project:** Carroll Gardens, 363-365 Bond Street, Brooklyn, NY**Sample:** E2P1692-DFTPP**Injection Date:** 09/05/14**Lab File ID:** 2P40357.D**Injection Time:** 16:26**Instrument ID:** GCMS2P

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance	Pass/Fail
51	30.0 - 60.0% of mass 198	58842	36.6	Pass
68	Less than 2.0% of mass 69	732	0.46 (1.13) ^a	Pass
69	Mass 69 relative abundance	64649	40.2	Pass
70	Less than 2.0% of mass 69	430	0.27 (0.67) ^a	Pass
127	40.0 - 60.0% of mass 198	74821	46.6	Pass
197	Less than 1.0% of mass 198	99	0.06	Pass
198	Base peak, 100% relative abundance	160661	100.0	Pass
199	5.0 - 9.0% of mass 198	10479	6.52	Pass
275	10.0 - 30.0% of mass 198	38356	23.9	Pass
365	1.0 - 100.0% of mass 198	5287	3.29	Pass
441	Present, but less than mass 443	23900	14.9 (83.9) ^b	Pass
442	40.0 - 100.0% of mass 198	156797	97.6	Pass
443	17.0 - 23.0% of mass 442	28485	17.7 (18.2) ^c	Pass

(a) Value is % of mass 69

(b) Value is % of mass 443

(c) Value is % of mass 442

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

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
E2P1692-IC1692	2P40358.D	09/05/14	16:36	00:10	Initial cal 100
E2P1692-IC1692	2P40359.D	09/05/14	16:59	00:33	Initial cal 80
E2P1692-IC1692	2P40360.D	09/05/14	17:22	00:56	Initial cal 50
E2P1692-ICC1692	2P40361.D	09/05/14	17:46	01:20	Initial cal 25
E2P1692-IC1692	2P40362.D	09/05/14	18:09	01:43	Initial cal 10
E2P1692-IC1692	2P40363.D	09/05/14	18:32	02:06	Initial cal 5
E2P1692-IC1692	2P40364.D	09/05/14	18:55	02:29	Initial cal 2
E2P1692-IC1692	2P40365.D	09/05/14	19:18	02:52	Initial cal 1
E2P1692-ICV1691	2P40366.D	09/05/14	19:41	03:15	Initial cal verification 50
E2P1692-ICV1691	2P40367.D	09/05/14	20:05	03:39	Initial cal verification 50
E2P1692-ICV1692	2P40367A.D	09/05/14	20:05	03:39	Initial cal verification 50
E2P1692-ICV1691	2P40368.D	09/05/14	20:28	04:02	Initial cal verification 50
E2P1692-ICV1692	2P40368A.D	09/05/14	20:28	04:02	Initial cal verification 50
E2P1692-ICV1691	2P40369.D	09/05/14	20:51	04:25	Initial cal verification 50
E2P1692-ICV1692	2P40371.D	09/05/14	21:37	05:11	Initial cal verification 50
E2P1692-ICV1691	2P40372.D	09/05/14	22:00	05:34	Initial cal verification 50

Instrument Performance Check (DFTPP)**Job Number:** JB75844**Account:** LANGAN Langan Engineering & Environmental**Project:** Carroll Gardens, 363-365 Bond Street, Brooklyn, NY**Sample:** E2P1697-DFTPP**Injection Date:** 09/09/14**Lab File ID:** 2P40501.D**Injection Time:** 07:49**Instrument ID:** GCMS2P

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance	Pass/Fail
51	30.0 - 60.0% of mass 198	65072	40.7	Pass
68	Less than 2.0% of mass 69	542	0.34 (0.74) ^a	Pass
69	Mass 69 relative abundance	73195	45.8	Pass
70	Less than 2.0% of mass 69	358	0.22 (0.49) ^a	Pass
127	40.0 - 60.0% of mass 198	80291	50.2	Pass
197	Less than 1.0% of mass 198	798	0.50	Pass
198	Base peak, 100% relative abundance	159987	100.0	Pass
199	5.0 - 9.0% of mass 198	11220	7.01	Pass
275	10.0 - 30.0% of mass 198	33504	20.9	Pass
365	1.0 - 100.0% of mass 198	4946	3.09	Pass
441	Present, but less than mass 443	18524	11.6 (81.6) ^b	Pass
442	40.0 - 100.0% of mass 198	126979	79.4	Pass
443	17.0 - 23.0% of mass 442	22692	14.2 (17.9) ^c	Pass

(a) Value is % of mass 69

(b) Value is % of mass 443

(c) Value is % of mass 442

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

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
E2P1697-CC1691	2P40502.D	09/09/14	08:00	00:11	Continuing cal 50
E2P1697-CC1692	2P40503.D	09/09/14	08:32	00:43	Continuing cal 50
OP77878-MB1	2P40504.D	09/09/14	08:55	01:06	Method Blank
OP77878-BS1	2P40505.D	09/09/14	09:17	01:28	Blank Spike
JB75844-6	2P40506.D	09/09/14	09:40	01:51	475-FB-24
OP77866-MB1	2P40507.D	09/09/14	10:02	02:13	Method Blank
OP77866-BS1	2P40508.D	09/09/14	10:25	02:36	Blank Spike
JB75844-3	2P40509.D	09/09/14	10:47	02:58	472-UST-7-PE-3
JB75844-5	2P40510.D	09/09/14	11:10	03:21	474-UST-7-PE-5
ZZZZZZ	2P40511.D	09/09/14	11:33	03:44	(unrelated sample)
JB75430-1	2P40512.D	09/09/14	11:55	04:06	(used for QC only; not part of job JB75844)
ZZZZZZ	2P40513.D	09/09/14	12:18	04:29	(unrelated sample)
ZZZZZZ	2P40514.D	09/09/14	12:41	04:52	(unrelated sample)
ZZZZZZ	2P40515.D	09/09/14	13:03	05:14	(unrelated sample)
ZZZZZZ	2P40516.D	09/09/14	13:26	05:37	(unrelated sample)
ZZZZZZ	2P40522.D	09/09/14	14:11	06:22	(unrelated sample)
OP77866-MS	2P40518.D	09/09/14	14:34	06:45	Matrix Spike
OP77866-MSD	2P40519.D	09/09/14	14:57	07:08	Matrix Spike Duplicate
OP77878-MS	2P40520.D	09/09/14	15:19	07:30	Matrix Spike

Instrument Performance Check (DFTPP)

Job Number: JB75844
Account: LANGAN Langan Engineering & Environmental
Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

Sample:	E2P1697-DFTPP	Injection Date:	09/09/14
Lab File ID:	2P40501.D	Injection Time:	07:49
Instrument ID:	GCMS2P		

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
OP77878-MSD	2P40521.D	09/09/14	15:42	07:53	Matrix Spike Duplicate
JB75564-2	2P40523.D	09/09/14	16:04	08:15	(used for QC only; not part of job JB75844)

Instrument Performance Check (DFTPP)

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Job Number: JB75844**Account:** LANGAN Langan Engineering & Environmental**Project:** Carroll Gardens, 363-365 Bond Street, Brooklyn, NY**Sample:** EP3770-DFTPP**Injection Date:** 08/22/14**Lab File ID:** P88230.D**Injection Time:** 18:23**Instrument ID:** GCMSP

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance	Pass/Fail
51	30.0 - 60.0% of mass 198	7182	33.5	Pass
68	Less than 2.0% of mass 69	0	0.00 (0.00) ^a	Pass
69	Mass 69 relative abundance	9091	42.4	Pass
70	Less than 2.0% of mass 69	0	0.00 (0.00) ^a	Pass
127	40.0 - 60.0% of mass 198	11476	53.5	Pass
197	Less than 1.0% of mass 198	0	0.00	Pass
198	Base peak, 100% relative abundance	21449	100.0	Pass
199	5.0 - 9.0% of mass 198	1423	6.63	Pass
275	10.0 - 30.0% of mass 198	4404	20.5	Pass
365	1.0 - 100.0% of mass 198	465	2.17	Pass
441	Present, but less than mass 443	2502	11.7 (80.5) ^b	Pass
442	40.0 - 100.0% of mass 198	15343	71.5	Pass
443	17.0 - 23.0% of mass 442	3109	14.5 (20.3) ^c	Pass

(a) Value is % of mass 69

(b) Value is % of mass 443

(c) Value is % of mass 442

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

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
EP3770-IC3770	P88231.D	08/22/14	18:37	00:14	Initial cal 100
EP3770-IC3770	P88232.D	08/22/14	19:06	00:43	Initial cal 80
EP3770-ICC3770	P88233.D	08/22/14	19:35	01:12	Initial cal 50
EP3770-IC3770	P88234.D	08/22/14	20:04	01:41	Initial cal 25
EP3770-IC3770	P88235.D	08/22/14	20:33	02:10	Initial cal 10
EP3770-IC3770	P88236.D	08/22/14	21:03	02:40	Initial cal 5
EP3770-IC3770	P88237.D	08/22/14	21:32	03:09	Initial cal 2
EP3770-IC3770	P88238.D	08/22/14	22:01	03:38	Initial cal 1

Instrument Performance Check (DFTPP)

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Job Number: JB75844**Account:** LANGAN Langan Engineering & Environmental**Project:** Carroll Gardens, 363-365 Bond Street, Brooklyn, NY**Sample:** EP3771-DFTPP**Injection Date:** 08/22/14**Lab File ID:** P88239.D**Injection Time:** 22:26**Instrument ID:** GCMSP

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance	Pass/Fail
51	30.0 - 60.0% of mass 198	7025	34.1	Pass
68	Less than 2.0% of mass 69	0	0.00 (0.00) ^a	Pass
69	Mass 69 relative abundance	8848	43.0	Pass
70	Less than 2.0% of mass 69	0	0.00 (0.00) ^a	Pass
127	40.0 - 60.0% of mass 198	11223	54.5	Pass
197	Less than 1.0% of mass 198	0	0.00	Pass
198	Base peak, 100% relative abundance	20578	100.0	Pass
199	5.0 - 9.0% of mass 198	1375	6.68	Pass
275	10.0 - 30.0% of mass 198	4150	20.2	Pass
365	1.0 - 100.0% of mass 198	457	2.22	Pass
441	Present, but less than mass 443	2319	11.3 (81.8) ^b	Pass
442	40.0 - 100.0% of mass 198	13988	68.0	Pass
443	17.0 - 23.0% of mass 442	2834	13.8 (20.3) ^c	Pass

(a) Value is % of mass 69

(b) Value is % of mass 443

(c) Value is % of mass 442

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

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
EP3771-IC3771	P88240.D	08/22/14	22:38	00:12	Initial cal 100
EP3771-IC3771	P88241.D	08/22/14	23:07	00:41	Initial cal 80
EP3771-ICC3771	P88242.D	08/22/14	23:36	01:10	Initial cal 50
EP3771-IC3771	P88243.D	08/23/14	00:05	01:39	Initial cal 25
EP3771-IC3771	P88244.D	08/23/14	00:34	02:08	Initial cal 10
EP3771-IC3771	P88245.D	08/23/14	01:03	02:37	Initial cal 5
EP3771-IC3771	P88246.D	08/23/14	01:32	03:06	Initial cal 2
EP3771-IC3771	P88247.D	08/23/14	02:01	03:35	Initial cal 1
EP3771-ICV3770	P88250A.D	08/23/14	03:27	05:01	Initial cal verification 50
EP3771-ICV3771	P88250.D	08/23/14	03:27	05:01	Initial cal verification 50
EP3771-ICV3771	P88251.D	08/23/14	03:56	05:30	Initial cal verification 50
EP3771-ICV3771	P88252.D	08/23/14	04:25	05:59	Initial cal verification 50
EP3771-ICV3770	P88252A.D	08/23/14	04:25	05:59	Initial cal verification 50
EP3771-ICV3771	P88254.D	08/23/14	05:22	06:56	Initial cal verification 50

Instrument Performance Check (DFTPP)

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Job Number: JB75844**Account:** LANGAN Langan Engineering & Environmental**Project:** Carroll Gardens, 363-365 Bond Street, Brooklyn, NY**Sample:** EP3772-DFTPP**Injection Date:** 08/23/14**Lab File ID:** P88255.D**Injection Time:** 08:40**Instrument ID:** GCMSP

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance	Pass/Fail
51	30.0 - 60.0% of mass 198	6826	32.0	Pass
68	Less than 2.0% of mass 69	0	0.00 (0.00) ^a	Pass
69	Mass 69 relative abundance	8665	40.7	Pass
70	Less than 2.0% of mass 69	0	0.00 (0.00) ^a	Pass
127	40.0 - 60.0% of mass 198	11093	52.1	Pass
197	Less than 1.0% of mass 198	0	0.00	Pass
198	Base peak, 100% relative abundance	21309	100.0	Pass
199	5.0 - 9.0% of mass 198	1444	6.78	Pass
275	10.0 - 30.0% of mass 198	4715	22.1	Pass
365	1.0 - 100.0% of mass 198	587	2.75	Pass
441	Present, but less than mass 443	2832	13.3 (82.5) ^b	Pass
442	40.0 - 100.0% of mass 198	17488	82.1	Pass
443	17.0 - 23.0% of mass 442	3431	16.1 (19.6) ^c	Pass

(a) Value is % of mass 69

(b) Value is % of mass 443

(c) Value is % of mass 442

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

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
EP3772-ICV3771	P88256.D	08/23/14	08:51	00:11	Initial cal verification 50
EP3772-ICV3771	P88258.D	08/23/14	09:56	01:16	Initial cal verification 50
EP3772-ICV3770	P88258A.D	08/23/14	09:56	01:16	Initial cal verification 50

Instrument Performance Check (DFTPP)

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Job Number: JB75844**Account:** LANGAN Langan Engineering & Environmental**Project:** Carroll Gardens, 363-365 Bond Street, Brooklyn, NY**Sample:** EP3796-DFTPP**Injection Date:** 09/09/14**Lab File ID:** P88853.D**Injection Time:** 16:24**Instrument ID:** GCMSP

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance	Pass/Fail
51	30.0 - 60.0% of mass 198	8395	35.0	Pass
68	Less than 2.0% of mass 69	0	0.00 (0.00) ^a	Pass
69	Mass 69 relative abundance	11034	46.0	Pass
70	Less than 2.0% of mass 69	0	0.00 (0.00) ^a	Pass
127	40.0 - 60.0% of mass 198	13479	56.2	Pass
197	Less than 1.0% of mass 198	0	0.00	Pass
198	Base peak, 100% relative abundance	23972	100.0	Pass
199	5.0 - 9.0% of mass 198	1664	6.94	Pass
275	10.0 - 30.0% of mass 198	5211	21.7	Pass
365	1.0 - 100.0% of mass 198	554	2.31	Pass
441	Present, but less than mass 443	2788	11.6 (78.7) ^b	Pass
442	40.0 - 100.0% of mass 198	17452	72.8	Pass
443	17.0 - 23.0% of mass 442	3544	14.8 (20.3) ^c	Pass

(a) Value is % of mass 69

(b) Value is % of mass 443

(c) Value is % of mass 442

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

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
EP3796-CC3771	P88854.D	09/09/14	16:35	00:11	Continuing cal 50
EP3796-CC3770	P88855.D	09/09/14	17:04	00:40	Continuing cal 25
OP77878-MB1	P88856.D	09/09/14	17:33	01:09	Method Blank
ZZZZZZ	P88857.D	09/09/14	18:01	01:37	(unrelated sample)
ZZZZZZ	P88858.D	09/09/14	18:30	02:06	(unrelated sample)
ZZZZZZ	P88859.D	09/09/14	18:59	02:35	(unrelated sample)
ZZZZZZ	P88860.D	09/09/14	19:27	03:03	(unrelated sample)
ZZZZZZ	P88861.D	09/09/14	19:56	03:32	(unrelated sample)
ZZZZZZ	P88862.D	09/09/14	20:24	04:00	(unrelated sample)
ZZZZZZ	P88863.D	09/09/14	20:53	04:29	(unrelated sample)
ZZZZZZ	P88864.D	09/09/14	21:21	04:57	(unrelated sample)
ZZZZZZ	P88865.D	09/09/14	21:50	05:26	(unrelated sample)
ZZZZZZ	P88866.D	09/09/14	22:18	05:54	(unrelated sample)
ZZZZZZ	P88867.D	09/09/14	22:47	06:23	(unrelated sample)
ZZZZZZ	P88868.D	09/09/14	23:15	06:51	(unrelated sample)
ZZZZZZ	P88869.D	09/09/14	23:44	07:20	(unrelated sample)
ZZZZZZ	P88870.D	09/10/14	00:12	07:48	(unrelated sample)
OP77855-MSD	P88871.D	09/10/14	00:41	08:17	Matrix Spike Duplicate

Instrument Performance Check (DFTPP)

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Job Number: JB75844**Account:** LANGAN Langan Engineering & Environmental**Project:** Carroll Gardens, 363-365 Bond Street, Brooklyn, NY**Sample:** EZ4711-DFTPP**Injection Date:** 08/26/14**Lab File ID:** Z94831.D**Injection Time:** 13:09**Instrument ID:** GCMSZ

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance	Pass/Fail
51	30.0 - 60.0% of mass 198	48634	53.9	Pass
68	Less than 2.0% of mass 69	116	0.13 (0.30) ^a	Pass
69	Mass 69 relative abundance	38924	43.1	Pass
70	Less than 2.0% of mass 69	90	0.10 (0.23) ^a	Pass
127	40.0 - 60.0% of mass 198	41327	45.8	Pass
197	Less than 1.0% of mass 198	181	0.20	Pass
198	Base peak, 100% relative abundance	90224	100.0	Pass
199	5.0 - 9.0% of mass 198	7239	8.02	Pass
275	10.0 - 30.0% of mass 198	22509	24.9	Pass
365	1.0 - 100.0% of mass 198	3362	3.73	Pass
441	Present, but less than mass 443	13277	14.7 (89.1) ^b	Pass
442	40.0 - 100.0% of mass 198	85514	94.8	Pass
443	17.0 - 23.0% of mass 442	14908	16.5 (17.4) ^c	Pass

(a) Value is % of mass 69

(b) Value is % of mass 443

(c) Value is % of mass 442

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

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
EZ4711-ICC4711	Z94832.D	08/26/14	13:32	00:23	Initial cal 50
EZ4711-IC4711	Z94838.D	08/26/14	15:40	02:31	Initial cal 100
EZ4711-IC4711	Z94839.D	08/26/14	16:06	02:57	Initial cal 2
EZ4711-IC4711	Z94840.D	08/26/14	16:33	03:24	Initial cal 1
EZ4711-IC4711	Z94841A.D	08/26/14	17:18	04:09	Initial cal 5
EZ4711-IC4711	Z94842.D	08/26/14	17:44	04:35	Initial cal 10
EZ4711-IC4711	Z94843.D	08/26/14	18:10	05:01	Initial cal 25
EZ4711-IC4711	Z94844.D	08/26/14	18:36	05:27	Initial cal 80
EZ4711-IC4711	Z94845.D	08/26/14	19:02	05:53	Initial cal 100
EZ4711-IC4711	Z94846.D	08/26/14	19:28	06:19	Initial cal 80
EZ4711-IC4711	Z94847.D	08/26/14	19:54	06:45	Initial cal 50
EZ4711-IC4711	Z94848.D	08/26/14	20:20	07:11	Initial cal 25
EZ4711-IC4711	Z94849.D	08/26/14	20:45	07:36	Initial cal 10
EZ4711-IC4711	Z94850.D	08/26/14	21:12	08:03	Initial cal 5
EZ4711-IC4711	Z94851.D	08/26/14	21:38	08:29	Initial cal 2
EZ4711-IC4711	Z94852.D	08/26/14	22:04	08:55	Initial cal 1

Instrument Performance Check (DFTPP)

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Job Number: JB75844**Account:** LANGAN Langan Engineering & Environmental**Project:** Carroll Gardens, 363-365 Bond Street, Brooklyn, NY**Sample:** EZ4712-DFTPP**Injection Date:** 08/26/14**Lab File ID:** Z94853.D**Injection Time:** 22:35**Instrument ID:** GCMSZ

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance	Pass/Fail
51	30.0 - 60.0% of mass 198	19561	57.9	Pass
68	Less than 2.0% of mass 69	113	0.33 (0.74) ^a	Pass
69	Mass 69 relative abundance	15256	45.1	Pass
70	Less than 2.0% of mass 69	0	0.00 (0.00) ^a	Pass
127	40.0 - 60.0% of mass 198	15425	45.6	Pass
197	Less than 1.0% of mass 198	5	0.01	Pass
198	Base peak, 100% relative abundance	33811	100.0	Pass
199	5.0 - 9.0% of mass 198	2407	7.12	Pass
275	10.0 - 30.0% of mass 198	8644	25.6	Pass
365	1.0 - 100.0% of mass 198	1607	4.75	Pass
441	Present, but less than mass 443	4618	13.7 (82.7) ^b	Pass
442	40.0 - 100.0% of mass 198	31481	93.1	Pass
443	17.0 - 23.0% of mass 442	5581	16.5 (17.7) ^c	Pass

(a) Value is % of mass 69

(b) Value is % of mass 443

(c) Value is % of mass 442

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

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
EZ4712-ICV4711	Z94854.D	08/26/14	22:46	00:11	Initial cal verification 50
EZ4712-ICV4711	Z94855.D	08/26/14	23:12	00:37	Initial cal verification 50
EZ4712-ICV4711	Z94856.D	08/26/14	23:39	01:04	Initial cal verification 50
EZ4712-ICV4712	Z94857.D	08/27/14	00:05	01:30	Initial cal verification 50
EZ4712-ICV4711	Z94858.D	08/27/14	00:30	01:55	Initial cal verification 50
EZ4712-ICV4711	Z94859.D	08/27/14	00:56	02:21	Initial cal verification 50
EZ4712-ICV4711	Z94860.D	08/27/14	01:21	02:46	Initial cal verification 50

Instrument Performance Check (DFTPP)

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Job Number: JB75844

Account: LANGAN Langan Engineering & Environmental

Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

Sample: EZ4729-DFTPP

Injection Date: 09/08/14

Lab File ID: Z95245.D

Injection Time: 19:44

Instrument ID: GCMSZ

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance	Pass/Fail
51	30.0 - 60.0% of mass 198	68959	48.6	Pass
68	Less than 2.0% of mass 69	0	0.00 (0.00) ^a	Pass
69	Mass 69 relative abundance	68341	48.2	Pass
70	Less than 2.0% of mass 69	697	0.49 (1.02) ^a	Pass
127	40.0 - 60.0% of mass 198	64125	45.2	Pass
197	Less than 1.0% of mass 198	0	0.00	Pass
198	Base peak, 100% relative abundance	141906	100.0	Pass
199	5.0 - 9.0% of mass 198	10188	7.18	Pass
275	10.0 - 30.0% of mass 198	36482	25.7	Pass
365	1.0 - 100.0% of mass 198	5262	3.71	Pass
441	Present, but less than mass 443	14992	10.6 (78.0) ^b	Pass
442	40.0 - 100.0% of mass 198	107797	76.0	Pass
443	17.0 - 23.0% of mass 442	19229	13.6 (17.8) ^c	Pass

(a) Value is % of mass 69

(b) Value is % of mass 443

(c) Value is % of mass 442

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

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
EZ4729-CC4711	Z95246.D	09/08/14	19:59	00:15	Continuing cal 25
EZ4729-CC4711	Z95247.D	09/08/14	20:28	00:44	Continuing cal 25
OP77866-MB1	Z95249.D	09/08/14	21:31	01:47	Method Blank
JB75844-1	Z95253.D	09/08/14	23:30	03:46	470-UST-7-PE-1
JB75844-2	Z95254.D	09/08/14	23:55	04:11	471-UST-7-PE-2
JB75844-3	Z95255.D	09/09/14	00:20	04:36	472-UST-7-PE-3
JB75844-4	Z95256.D	09/09/14	00:46	05:02	473-UST-7-PE-4
JB75844-5	Z95257.D	09/09/14	01:11	05:27	474-UST-7-PE-5
ZZZZZZ	Z95260.D	09/09/14	02:27	06:43	(unrelated sample)

Semivolatile Internal Standard Area Summary

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Job Number: JB75844

Account: LANGAN Langan Engineering & Environmental

Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

Check Std: E2P1697-CC1691

Injection Date: 09/09/14

Lab File ID: 2P40502.D

Injection Time: 08:00

Instrument ID: GCMS2P

Method: SW846 8270D

	IS 1		IS 2		IS 3		IS 4		IS 5		IS 6	
	AREA	RT	AREA	RT	AREA	RT	AREA	RT	AREA	RT	AREA	RT
Check Std	503375	4.63	1868997	5.68	1131313	7.12	1915825	8.41	1902316	11.70	1526969	13.71
Upper Limit ^a	1006750	5.13	3737994	6.18	2262626	7.62	3831650	8.91	3804632	12.20	3053938	14.21
Lower Limit ^b	251688	4.13	934499	5.18	565657	6.62	957913	7.91	951158	11.20	763485	13.21

Lab Sample ID	IS 1		IS 2		IS 3		IS 4		IS 5		IS 6	
	AREA	RT	AREA	RT	AREA	RT	AREA	RT	AREA	RT	AREA	RT
OP77878-MB1	398327	4.64	1528896	5.68	871892	7.13	1464652	8.41	1427724	11.70	1249877	13.71
OP77878-BS1	357989	4.63	1297457	5.68	750427	7.12	1257681	8.41	1235312	11.69	1039516	13.70
JB75844-6	401852	4.63	1534155	5.68	876040	7.12	1466392	8.41	1433036	11.68	1271484	13.70
OP77866-MB1	376316	4.63	1422912	5.68	817639	7.12	1355281	8.41	1325004	11.68	1136811	13.70
OP77866-BS1	307841	4.63	1121884	5.68	643839	7.12	1080329	8.41	1060257	11.69	904462	13.70
JB75844-3	310733	4.64	1189831	5.68	785007	7.13	1270232	8.42	1027634	11.70	878341	13.71
JB75844-5	339826	4.64	1252615	5.69	778556	7.16	1477915	8.45	1113444	11.71	920640	13.72
ZZZZZZ	370455	4.63	1396357	5.68	783198	7.12	1274281	8.41	1095179	11.70	796516	13.71
JB75430-1	386888	4.64	1428101	5.68	769426	7.12	1212907	8.42	1045257	11.70	854778	13.71
ZZZZZZ	366842	4.64	1351005	5.68	746258	7.12	1180220	8.41	952172	11.70	793945	13.71
ZZZZZZ	377983	4.63	1403534	5.68	718059	7.13	1184924	8.42	1050855	11.71	750445*	13.72
ZZZZZZ	380613	4.63	1394722	5.68	745798	7.13	1161634	8.42	1064252	11.71	849260	13.73
ZZZZZZ	364241	4.64	1388038	5.68	746338	7.13	1107807	8.42	1067134	11.72	917766	13.74
ZZZZZZ	358486	4.64	1379332	5.68	745918	7.13	1221365	8.42	955302	11.71	639116*	13.72
OP77866-MS ^c	320798	4.64	1161518	5.69	759790	7.14	1194556	8.43	922167*	11.71	674633*	13.72
OP77866-MSD ^c	321647	4.63	1211083	5.69	772539	7.15	1342187	8.44	958877	11.72	721965*	13.73
OP77878-MS	360800	4.64	1276017	5.69	721561	7.13	1169779	8.42	938846 ^d	11.72	628448 ^d	13.73
OP77878-MSD	345772	4.64	1228511	5.69	697779	7.13	1133303	8.42	976458	11.72	628508 ^d	13.73
JB75564-2	353682	4.64	1361430	5.69	758283	7.13	1211108	8.42	1014444	11.71	719227 ^e	13.73

IS 1 = 1,4-Dichlorobenzene-d4

IS 2 = Naphthalene-d8

IS 3 = Acenaphthene-D10

IS 4 = Phenanthrene-d10

IS 5 = Chrysene-d12

IS 6 = Perylene-d12

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

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

(c) Elevated detection limit due to high final volume of viscous extract.

(d) Outside of control limits.

(e) Outside of control limits. Confirmed by MS/MSD.

Semivolatile Internal Standard Area Summary

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Job Number: JB75844

Account: LANGAN Langan Engineering & Environmental

Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

Check Std: EP3796-CC3771

Injection Date: 09/09/14

Lab File ID: P88854.D

Injection Time: 16:35

Instrument ID: GCMSP

Method: SW846 8270D

	IS 1		IS 2		IS 3		IS 4		IS 5		IS 6	
	AREA	RT	AREA	RT	AREA	RT	AREA	RT	AREA	RT	AREA	RT
Check Std	42213	4.25	152070	6.00	82595	8.70	123225	11.06	119691	15.74	119751	18.29
Upper Limit ^a	84426	4.75	304140	6.50	165190	9.20	246450	11.56	239382	16.24	239502	18.79
Lower Limit ^b	21107	3.75	76035	5.50	41298	8.20	61613	10.56	59846	15.24	59876	17.79

Lab Sample ID	IS 1		IS 2		IS 3		IS 4		IS 5		IS 6	
	AREA	RT	AREA	RT	AREA	RT	AREA	RT	AREA	RT	AREA	RT
OP77878-MB1	44005	4.25	156331	5.99	84745	8.70	134053	11.05	129963	15.73	125936	18.28
ZZZZZZ	39532	4.25	141985	6.00	79522	8.70	128781	11.05	127360	15.73	123876	18.28
ZZZZZZ	41933	4.25	145915	5.99	83709	8.70	131933	11.05	128666	15.73	127229	18.28
ZZZZZZ	40260	4.25	145682	5.99	82059	8.70	132952	11.05	131837	15.73	126923	18.28
ZZZZZZ	38559	4.25	138507	5.98	77724	8.70	124010	11.05	121416	15.73	118564	18.28
ZZZZZZ	45364	4.25	176869	5.99	102608	8.70	163046	11.05	166236	15.73	163259	18.28
ZZZZZZ	43804	4.25	154652	5.99	85927	8.70	137504	11.05	133778	15.73	129471	18.28
ZZZZZZ	41366	4.25	147078	5.99	82229	8.70	130801	11.05	126927	15.73	121501	18.28
ZZZZZZ	43309	4.25	155518	5.99	86682	8.70	136703	11.05	131999	15.73	127477	18.28
ZZZZZZ	43242	4.25	156128	5.99	87366	8.70	139471	11.05	134732	15.73	130263	18.28
ZZZZZZ	40595	4.25	144281	5.99	77186	8.70	119715	11.05	122994	15.73	120966	18.29
ZZZZZZ	41640	4.25	150478	5.99	83958	8.70	132422	11.05	128467	15.73	125531	18.28
ZZZZZZ	40332	4.25	145015	5.99	79909	8.70	124513	11.05	118864	15.73	116638	18.28
ZZZZZZ	35097	4.25	124596	5.99	64787	8.70	97896	11.06	101481	15.74	105295	18.30
ZZZZZZ	39813	4.25	139401	5.99	77937	8.70	121199	11.05	121221	15.73	118837	18.29
OP77855-MSD	44353	4.25	158178	6.00	87965	8.70	130918	11.06	124953	15.75	128443	18.29

IS 1 = 1,4-Dichlorobenzene-d4

IS 2 = Naphthalene-d8

IS 3 = Acenaphthene-D10

IS 4 = Phenanthrene-d10

IS 5 = Chrysene-d12

IS 6 = Perylene-d12

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

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

Semivolatile Internal Standard Area Summary

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Job Number: JB75844

Account: LANGAN Langan Engineering & Environmental

Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

Check Std: EZ4729-CC4711

Injection Date: 09/08/14

Lab File ID: Z95246.D

Injection Time: 19:59

Instrument ID: GCMSZ

Method: SW846 8270D

	IS 1		IS 2		IS 3		IS 4		IS 5		IS 6	
	AREA	RT	AREA	RT	AREA	RT	AREA	RT	AREA	RT	AREA	RT
Check Std	226562	3.31	822367	4.63	535354	6.68	933306	8.47	1079747	12.15	977582	14.21
Upper Limit ^a	453124	3.81	1644734	5.13	1070708	7.18	1866612	8.97	2159494	12.65	1955164	14.71
Lower Limit ^b	113281	2.81	411184	4.13	267677	6.18	466653	7.97	539874	11.65	488791	13.71

Lab Sample ID	IS 1		IS 2		IS 3		IS 4		IS 5		IS 6	
	AREA	RT	AREA	RT	AREA	RT	AREA	RT	AREA	RT	AREA	RT
OP77866-MB1	433208	3.31	1593776	4.63	1000893	6.68	1753128	8.47	1978350	12.15	1845315	14.21
JB75844-1 ^c	200392	3.32	764098	4.64	495233	6.69	858888	8.48	949596	12.16	889628	14.21
JB75844-2 ^c	207568	3.32	783784	4.64	521412	6.70	875552	8.48	938416	12.16	901293	14.21
JB75844-3 ^c	148309	3.32	573024	4.65	378679	6.73	538701	8.51	637114	12.17	591311	14.22
JB75844-4 ^c	225696	3.32	841317	4.64	546650	6.69	934714	8.48	1012671	12.16	972647	14.22
JB75844-5	143888	3.32	556788	4.65	346394	6.73	531576	8.51	614224	12.17	585297	14.22
ZZZZZZ	173600	3.31	609265	4.63	395374	6.68	678214	8.46	778838	12.15	710653	14.21

IS 1 = 1,4-Dichlorobenzene-d4

IS 2 = Naphthalene-d8

IS 3 = Acenaphthene-D10

IS 4 = Phenanthrene-d10

IS 5 = Chrysene-d12

IS 6 = Perylene-d12

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

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

(c) Elevated detection limit due to high final volume of viscous extract.

Semivolatile Surrogate Recovery Summary

Job Number: JB75844
Account: LANGAN Langan Engineering & Environmental
Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

Method: SW846 8270D	Matrix: AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3
JB75844-6	2P40506.D	67	67	42
OP77878-BS1	2P40505.D	84	83	98
OP77878-MB1	2P40504.D	74	72	87
OP77878-MB1	P88856.D	67	70	77
OP77878-MS	2P40520.D	87	90	95
OP77878-MSD	2P40521.D	80	84	94

Surrogate Compounds	Recovery Limits
S1 = Nitrobenzene-d5	28-131%
S2 = 2-Fluorobiphenyl	30-121%
S3 = Terphenyl-d14	16-147%

8.6.1
8

Semivolatile Surrogate Recovery Summary

Job Number: JB75844
Account: LANGAN Langan Engineering & Environmental
Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

Method: SW846 8270D	Matrix: SO

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3
JB75844-1	Z95253.D	105	84	97
JB75844-2	Z95254.D	101	79	95
JB75844-3	2P40509.D	63	110	108
JB75844-3	Z95255.D	189* a	87	111
JB75844-4	Z95256.D	90	75	86
JB75844-5	2P40510.D	90	85	106
JB75844-5	Z95257.D	101	71	95
OP77866-BS1	2P40508.D	85	84	95
OP77866-MB1	Z95249.D	52	44	50
OP77866-MB1	2P40507.D	94	91	100
OP77866-MS	2P40518.D	98	80	87
OP77866-MSD	2P40519.D	128* b	106	116

Surrogate Compounds	Recovery Limits
S1 = Nitrobenzene-d5	10-110%
S2 = 2-Fluorobiphenyl	17-110%
S3 = Terphenyl-d14	30-124%

- (a) Outside control limits due to dilution and matrix interference.
(b) Outside control limits due to matrix interference and dilution.

8.6.2
8

Initial Calibration Summary

Page 1 of 3

Job Number: JB75844

Sample: E2P1691-ICC1691

Account: LANGAN Langan Engineering & Environmental

Lab FileID: 2P40354.D

Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

Response Factor Report MS2P

Method : C:\MSDCHEM\1\METHODS\M2P1691.M (RTE Integrator)
 Title : Semi Volatile Extractables by GC/MS
 Last Update : Mon Sep 08 09:14:08 2014
 Response via : Initial Calibration

Calibration Files

2 =2p40353.D 5 =2p40355.D 25 =2p40354.D 80 =2p40352.D
 100 =2p40350.D 50 =2p40349.D 1 =2p40351.D 10 =2p40356.D

Compound	2	5	25	80	100	50	1	10	Avg	%RSD

1) I 1,4-Dichlorobenzene-d	-----ISTD-----									
2) 1,4-Dioxane	0.447	0.420	0.410	0.443	0.417	0.400	0.219	0.435	0.399	18.69
3) Pyridine	0.906	0.968	0.987	1.148	1.117	1.048	1.143	1.007	1.041	8.53
4) N-Nitrosodim	0.536	0.511	0.568	0.644	0.615	0.683	0.589	0.563	0.589	9.63
5) 2-Fluorophen	1.027	0.817	1.160	1.270	1.249	1.205	0.722	1.149	1.075	18.97
6) Indene	2.124	1.996	1.947	1.998	1.990	2.043	2.118	2.082	2.037	3.21
7) Cumene	3.085	2.903	2.940	3.091	3.072	3.149	2.925	3.124	3.036	3.22
8) Phenol-d5	1.330	1.294	1.355	1.451	1.446	1.450	1.207	1.393	1.366	6.39
9) Phenol	1.538	1.457	1.461	1.626	1.479	1.733	1.376	1.639	1.539	7.69
10) Aniline	1.728	1.665	1.789	1.849	1.822	1.522	1.595	1.854	1.728	7.16
11) bis(2-Chloro	1.007	1.066	0.968	0.981	0.955	1.083	0.917	1.022	1.000	5.63
12) 2-Chlorophen	1.521	1.327	1.336	1.336	1.313	1.458	1.417	1.407	1.389	5.33
13) Decane	1.603	1.386	1.338	1.306	1.239	1.351	1.522	1.481	1.403	8.67
14) 1,3-Dichloro	1.679	1.520	1.475	1.523	1.505	1.657	1.631	1.592	1.573	4.91
15) 1,4-Dichloro	1.748	1.550	1.508	1.529	1.505	1.657	1.747	1.600	1.605	6.31
16) Benzyl alcoh	0.720	0.694	0.785	0.817	0.787	0.826	0.747	0.797	0.772	6.08
17) 1,2-Dichloro	1.626	1.440	1.409	1.423	1.380	1.549	1.513	1.518	1.482	5.61
18) Acetophenone	1.817	1.643	1.594	1.641	1.632	1.664	1.772	1.660	1.678	4.52
19) 2-Methylphen	1.150	1.079	1.011	1.015	1.007	1.014	1.032	1.072	1.047	4.78
20) 2,2'-oxybis(	0.373	0.333	0.313	0.324	0.318	0.355	0.378	0.354	0.343	7.35
21) 3&4-Methylph	1.065	1.116	1.077	1.092	1.110	1.101	1.097	1.167	1.103	2.78
22) n-Nitroso-di	0.757	0.692	0.696	0.709	0.695	0.790	0.759	0.752	0.731	5.16
23) Hexachloroet	0.666	0.600	0.565	0.574	0.570	0.614	0.589	0.615	0.599	5.53
24) I Naphthalene-d8	-----ISTD-----									
25) Nitrobenzene	0.338	0.301	0.318	0.325	0.318	0.319	0.325	0.338	0.323	3.76
26) Nitrobenzene	0.356	0.305	0.301	0.305	0.301	0.325	0.355	0.323	0.321	7.18
27) Quinoline	0.636	0.595	0.620	0.656	0.660	0.662	0.664	0.646	0.642	3.78
28) Isophorone	0.539	0.480	0.505	0.528	0.523	0.553	0.580	0.526	0.529	5.66
29) 2-Nitropheno	0.202	0.189	0.202	0.213	0.211	0.226	0.206	0.207	0.207	5.13
30) 2,4-Dimethyl	0.341	0.306	0.316	0.317	0.308	0.322	0.326	0.324	0.320	3.45
31) Benzoic acid	0.161	0.156	0.219	0.249	0.227	0.253		0.205	0.210	18.59
32) bis(2-Chloro	0.346	0.314	0.309	0.323	0.323	0.343	0.325	0.325	0.326	3.90
33) 2,4-Dichloro	0.296	0.282	0.296	0.313	0.314	0.337	0.317	0.303	0.307	5.47
34) 2,6-Dichloro	0.309	0.280	0.295	0.300	0.303	0.325	0.332	0.306	0.306	5.36
35) 1,3,5-Trichl	0.390	0.357	0.365	0.371	0.364	0.368	0.383	0.373	0.371	2.89
36) 1,2,4-Trichl	0.384	0.336	0.337	0.344	0.336	0.366	0.380	0.352	0.354	5.56
37) 1,2,3-Trichl	0.358	0.326	0.329	0.322	0.322	0.328	0.357	0.340	0.335	4.44
38) Naphthalene	1.124	1.024	1.008	1.044	1.014	1.046	1.116	1.081	1.057	4.25
39) 4-Chloroanil	0.458	0.418	0.436	0.449	0.441	0.411	0.438	0.460	0.439	3.95
40) 2,3-Dichloro	0.401	0.365	0.358	0.378	0.381	0.375	0.417	0.387	0.383	4.97
41) Caprolactam	0.095	0.085	0.088	0.093	0.092	0.093	0.074	0.087	0.089	7.64
42) Hexachlorobu	0.217	0.201	0.186	0.193	0.189	0.203	0.203	0.199	0.199	4.90
43) 4-Chloro-3-m	0.298	0.261	0.276	0.293	0.287	0.317	0.271	0.281	0.286	6.12
44) 2-Methylnaph	0.666	0.617	0.647	0.679	0.658	0.665	0.675	0.679	0.661	3.14
45) 1-Methylnaph	0.709	0.585	0.596	0.613	0.600	0.615	0.681	0.616	0.627	7.00

87.1

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Initial Calibration Summary

Page 2 of 3

Job Number: JB75844

Sample: E2P1691-ICC1691

Account: LANGAN Langan Engineering & Environmental

Lab FileID: 2P40354.D

Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

46)	Dimethylnaph	0.657	0.587	0.588	0.616	0.597	0.608	0.665	0.623	0.618	4.80
47)	I Acenaphthene-d10	-----ISTD-----									
48)	Hexachlorocy	0.088	0.219	0.291	0.313	0.285		0.145	0.224		40.50
	----- Quadratic regression -----	Coefficient = 0.9988									
	Response Ratio =	-0.05667 + 0.26686 *A + 0.01121 *A^2									
49)	2,4,6-Trichl	0.398	0.346	0.376	0.374	0.380	0.397	0.374	0.371	0.377	4.33
50)	2,4,5-Trichl	0.436	0.401	0.400	0.410	0.403	0.387	0.381	0.408	0.403	4.10
51)	2-Fluorobiph	1.407	1.275	1.301	1.289	1.234	1.218	1.352	1.342	1.302	4.83
52)	2-Chloronaph	1.239	1.123	1.129	1.109	1.083	1.133	1.273	1.180	1.159	5.74
53)	Biphenyl	1.597	1.484	1.501	1.498	1.481	1.450	1.641	1.520	1.521	4.25
54)	2-Nitroanili	0.407	0.381	0.369	0.372	0.367	0.351	0.446	0.390	0.385	7.64
55)	Dimethylphth	1.347	1.180	1.231	1.250	1.270	1.316	1.349	1.256	1.275	4.61
56)	Acenaphthyle	2.064	1.925	1.994	2.009	1.942	1.923	2.133	2.019	2.001	3.63
57)	2,6-Dinitrot	0.317	0.276	0.292	0.302	0.300	0.305	0.344	0.295	0.304	6.64
58)	3-Nitroanili	0.363	0.350	0.366	0.377	0.377	0.358	0.355	0.364	0.364	2.66
59)	Acenaphthene	1.406	1.272	1.265	1.279	1.243	1.218	1.350	1.308	1.293	4.69
60)	2,4-Dinitrop			0.170	0.202	0.205	0.191		0.123	0.178	18.88
61)	4-Nitropheno	0.138	0.151	0.166	0.169	0.161	0.176	0.098	0.167	0.153	16.47
62)	Dibenzofuran	1.804	1.670	1.730	1.741	1.706	1.678	1.884	1.717	1.741	4.09
63)	2,4-Dinitrot	0.417	0.378	0.397	0.397	0.390	0.408	0.415	0.407	0.401	3.35
64)	2,3,4,6-Tetr	0.319	0.305	0.321	0.349	0.359	0.360	0.316	0.314	0.330	6.64
65)	Diethylphtha	1.317	1.207	1.239	1.245	1.230	1.308	1.326	1.264	1.267	3.53
66)	Fluorene	1.479	1.296	1.393	1.380	1.324	1.360	1.395	1.409	1.379	4.03
67)	4-Chlorophen	0.585	0.581	0.605	0.618	0.605	0.646	0.633	0.616	0.611	3.61
68)	4-Nitroanili	0.307	0.336	0.352	0.348	0.351	0.324	0.361	0.352	0.342	5.20
69)	I Phenanthrene-d10	-----ISTD-----									
70)	4,6-Dinitro-	0.096	0.108	0.138	0.147	0.150	0.156		0.128	0.132	17.03
71)	n-Nitrosodip	0.580	0.512	0.502	0.505	0.497	0.522	0.572	0.559	0.531	6.33
72)	1,2-Diphenyl	0.662	0.610	0.614	0.601	0.580	0.628	0.658	0.663	0.627	4.99
73)	2,4,6-Tribo	0.112	0.104	0.114	0.122	0.127	0.116	0.122	0.120	0.117	6.18
74)	4-Bromopheny	0.226	0.195	0.207	0.218	0.226	0.230	0.224	0.216	0.218	5.40
75)	Hexachlorobe	0.271	0.243	0.248	0.264	0.262	0.279	0.270	0.266	0.263	4.55
76)	Pentachlorop		0.098	0.129	0.153	0.160	0.153		0.112	0.134	18.91
77)	Phenanthrene	1.284	1.151	1.151	1.190	1.144	1.137	1.284	1.227	1.196	5.17
78)	Anthracene	1.300	1.175	1.186	1.205	1.153	1.157	1.183	1.272	1.204	4.47
79)	Carbazole	1.066	0.986	1.011	1.040	1.028	1.012	0.978	1.062	1.023	3.17
80)	Di-n-butylph	1.319	1.188	1.255	1.318	1.284	1.381	1.253	1.302	1.287	4.44
81)	Fluoranthene	1.427	1.286	1.374	1.426	1.398	1.401	1.347	1.416	1.384	3.49
82)	Octadecane	0.348	0.321	0.314	0.297	0.274	0.292	0.325	0.340	0.314	7.95
83)	I Chrysene-d12	-----ISTD-----									
84)	Pyrene	1.455	1.369	1.380	1.433	1.405	1.438	1.466	1.458	1.426	2.58
85)	Terphenyl-d1	0.835	0.762	0.798	0.857	0.874	0.819	0.857	0.823	0.828	4.38
86)	Butylbenzylp	0.589	0.543	0.561	0.607	0.601	0.642	0.548	0.568	0.582	5.77
87)	Butyl steara	0.382	0.366	0.380	0.385	0.382	0.357	0.399	0.402	0.382	3.94
88)	Benzo[a]anth	1.330	1.200	1.214	1.278	1.276	1.250	1.345	1.289	1.273	4.00
89)	3,3'-Dichlor	0.451	0.396	0.427	0.475	0.480	0.454	0.444	0.450	0.447	5.95
90)	Chrysene	1.186	1.050	1.049	1.106	1.087	1.072	1.100	1.127	1.097	4.12
91)	bis(2-Ethylh	0.753	0.716	0.727	0.755	0.748	0.811	0.768	0.756	0.754	3.76
92)	I Perylene-d12	-----ISTD-----									
93)	Di-n-octylph	1.484	1.388	1.479	1.594	1.581	1.729	1.499	1.507	1.533	6.65
94)	Benzo[b]fluo	1.356	1.228	1.341	1.410	1.444	1.411	1.436	1.361	1.373	5.10
95)	Benzo[k]fluo	1.275	1.233	1.246	1.221	1.204	1.223	1.302	1.306	1.251	3.08
96)	Benzo[a]pyre	1.208	1.087	1.160	1.243	1.256	1.202	1.136	1.190	1.185	4.71
97)	Indeno[1,2,3	1.455	1.260	1.333	1.429	1.424	1.366	1.358	1.373	1.375	4.50
98)	Dibenz(a,h)a	0.906	0.828	0.903	0.957	0.961	0.925	0.959	0.898	0.917	4.88

8.7.1
8

Initial Calibration Summary

Job Number: JB75844
Account: LANGAN Langan Engineering & Environmental
Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

Sample: E2P1691-ICC1691
Lab FileID: 2P40354.D

99)	Dibenz[a,h]a	1.092	1.014	1.071	1.137	1.149	1.100	1.068	1.093	1.090	3.88
100)	7,12-Dimethy	0.516	0.504	0.566	0.616	0.618	0.595	0.538	0.546	0.562	7.80
101)	Benzo[g,h,i]	1.078	0.999	1.065	1.127	1.107	1.059	1.116	1.088	1.080	3.78

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

M2P1691.M Mon Sep 08 09:14:33 2014 RPT1

Initial Calibration Summary

Page 1 of 1

Job Number: JB75844

Sample: E2P1692-ICC1692

Account: LANGAN Langan Engineering & Environmental

Lab FileID: 2P40361.D

Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

Response Factor Report MS2P

Method : C:\MSDCHEM\1\METHODS\M2P1691.M (RTE Integrator)
 Title : Semi Volatile Extractables by GC/MS
 Last Update : Fri Sep 05 20:04:38 2014
 Response via : Initial Calibration

Calibration Files

2 =2p40364.D 5 =2p40363.D 25 =2p40361.D 80 =2p40359.D
 100 =2p40358.D 50 =2p40360.D 1 =2p40365.D 10 =2p40362.D

Compound	2	5	25	80	100	50	1	10	Avg	%RSD
102) I 1,4-Dichlorobenzene-d	-----ISTD-----									
103) Benzaldehyde	0.740	0.719	0.815	0.594	0.501	0.722	0.745	0.832	0.709	15.58
104) I Acenaphthene-d10a	-----ISTD-----									
105) Atrazine	0.165	0.141	0.174	0.176	0.175	0.176	0.142	0.160	0.164	8.97
106) 1,2,4,5-Tetr	0.616	0.530	0.607	0.641	0.646	0.622	0.672	0.592	0.616	6.93
107) I Chrysene-d12a	-----ISTD-----									
108) Benzidine	0.525	0.546	0.603	0.482	0.450	0.541	0.559	0.584	0.536	9.38
109) I Phenanthrene-d10a	-----ISTD-----									
110) 1-chloroocta	0.296	0.276	0.318	0.310	0.316	0.323	0.316	0.305	0.307	4.98
111) O-terphenyl	0.510	0.477	0.567	0.567	0.584	0.566	0.592	0.531	0.549	7.24

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

M2P1691.M

Fri Sep 05 20:06:12 2014

RPT1

8.7.2

8

Initial Calibration Verification

Page 1 of 1

Job Number: JB75844

Sample: E2P1692-ICV1691

Account: LANGAN Langan Engineering & Environmental

Lab FileID: 2P40366.D

Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\2P1692\2p40366.D Vial: 10
 Acq On : 5 Sep 2014 7:41 pm Operator: harpreck
 Sample : icv1691-50 Inst : MS2P
 Misc : op77543,e2p1692,1000,,,1,1 Multiplr: 1.00
 MS Integration Params: lscint.p

Method : C:\MSDCHEM\1\METHODS\M2P1691.M (RTE Integrator)
 Title : Semi Volatile Extractables by GC/MS
 Last Update : Fri Sep 05 20:04:38 2014
 Response via : Multiple Level Calibration

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

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1 I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	90	0.00	4.65
9 t	Phenol	1.539	1.511	1.8	78	-0.01	4.40
12 t	2-Chlorophenol	1.389	1.498	-7.8	92	0.00	4.49
19 t	2-Methylphenol	1.047	1.150	-9.8	102	-0.01	4.89
21 t	3&4-Methylphenol	1.103	1.191	-8.0	97	-0.01	5.01
24 I	Naphthalene-d8	1.000	1.000	0.0	85	0.00	5.69
29 t	2-Nitrophenol	0.207	0.224	-8.2	84	0.00	5.39
30 t	2,4-Dimethylphenol	0.320	0.367	-14.7	97	0.00	5.44
31 t	Benzoic acid	0.210	0.247	-17.6	83	-0.02	5.59
33 t	2,4-Dichlorophenol	0.307	0.324	-5.5	82	-0.01	5.60
34 t	2,6-Dichlorophenol	0.306	0.327	-6.9	86	-0.01	5.77
43 t	4-Chloro-3-methylphenol	0.286	0.306	-7.0	82	-0.02	6.19
47 I	Acenaphthene-d10	1.000	1.000	0.0	83	0.00	7.14
	----- AvgRF CCRF % Dev -----						
49 t	2,4,6-Trichlorophenol	0.377	0.407	-8.0	84	-0.01	6.53
50 t	2,4,5-Trichlorophenol	0.403	0.425	-5.5	91	-0.02	6.57
60 t	2,4-Dinitrophenol	0.178	0.152	14.6	66	-0.01	7.21
61 t	4-Nitrophenol	0.153	0.175	-14.4	82	-0.01	7.30
64	2,3,4,6-Tetrachlorophenol	0.330	0.333	-0.9	76	-0.01	7.42
69 I	Phenanthrene-d10	1.000	1.000	0.0	79	0.00	8.43
70 t	4,6-Dinitro-2-methylpheno	0.132	0.133	-0.8	68	-0.01	7.66
76 t	Pentachlorophenol	0.134	0.138	-3.0	72	-0.01	8.27

(#) = Out of Range
 2p40360.D M2P1691.M

SPCC's out = 0 CCC's out = 0
 Fri Sep 05 20:08:27 2014 RPT1

87.3

8

Initial Calibration Verification

Page 1 of 1

Job Number: JB75844

Sample: E2P1692-ICV1692

Account: LANGAN Langan Engineering & Environmental

Lab FileID: 2P40367A.D

Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\2P1692\2p40367a.D Vial: 11
Acq On : 5 Sep 2014 8:05 pm Operator: harpreek
Sample : icv1692-50 Inst : MS2P
Misc : op77543,e2p1692,1000,,,1,1 Multiplr: 1.00
MS Integration Params: lscint.p

Method : C:\MSDCHEM\1\METHODS\M2P1691.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Sep 05 20:04:38 2014
Response via : Multiple Level Calibration

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

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
104 I	Acenaphthene-d10a	1.000	1.000	0.0	110	0.00	7.14
106	1,2,4,5-Tetrachlorobenzen	0.616	0.622	-1.0	110	0.00	6.43

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

2p40360.D M2P1691.M

Fri Sep 05 20:32:17 2014 RPT1

8.7.4

8

Initial Calibration Verification

Job Number: JB75844

Sample: E2P1692-ICV1691

Account: LANGAN Langan Engineering & Environmental

Lab FileID: 2P40367.D

Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\2P1692\2p40367.D

Vial: 11

Acq On : 5 Sep 2014 8:05 pm

Operator: harpreek

Sample : icv1691-50

Inst : MS2P

Misc : op77543,e2p1692,1000,,,1,1

Multiplr: 1.00

MS Integration Params: lscint.p

Method : C:\MSDCHEM\1\METHODS\M2P1691.M (RTE Integrator)

Title : Semi Volatile Extractables by GC/MS

Last Update : Fri Sep 05 20:04:38 2014

Response via : Multiple Level Calibration

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

Max. RRF Dev : 30% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1 I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	90	0.00	4.65
4 t	N-Nitrosodimethylamine	0.589	0.526	10.7	69	0.00	2.27
11 t	bis(2-Chloroethyl)ether	1.000	1.034	-3.4	86	0.00	4.43
14 t	1,3-Dichlorobenzene	1.573	1.507	4.2	82	0.00	4.60
15 t	1,4-Dichlorobenzene	1.605	1.479	7.9	80	0.00	4.66
17 t	1,2-Dichlorobenzene	1.482	1.379	7.0	80	0.00	4.78
20 t	2,2'-oxybis(1-Chloropropa	0.343	0.318	7.3	81	0.00	4.88
22 t	n-Nitroso-di-n-propylamin	0.731	0.686	6.2	78	-0.01	4.99
23 t	Hexachloroethane	0.599	0.559	6.7	82	0.00	5.06
24 I	Naphthalene-d8	1.000	1.000	0.0	86	0.00	5.69
26 t	Nitrobenzene	0.321	0.291	9.3	77	0.00	5.13
28 t	Isophorone	0.529	0.485	8.3	75	-0.01	5.32
32 t	bis(2-Chloroethoxy)methan	0.326	0.331	-1.5	83	0.00	5.50
36 t	1,2,4-Trichlorobenzene	0.354	0.336	5.1	79	0.00	5.65
38 t	Naphthalene	1.057	0.928	12.2	76	0.00	5.72
42 t	Hexachlorobutadiene	0.199	0.188	5.5	79	0.00	5.82
47 I	Acenaphthene-d10	1.000	1.000	0.0	79	0.00	7.14
	----- True	Calc.	% Drift	-----			
48 t	Hexachlorocyclopentadiene	100.000	82.320	17.7	52	0.00	6.42
	----- AvgRF	CCRF	% Dev	-----			
52 t	2-Chloronaphthalene	1.159	1.152	0.6	81	0.00	6.68
55 t	Dimethylphthalate	1.275	1.247	2.2	75	-0.01	6.92
56 t	Acenaphthylene	2.001	1.439	28.1	59	0.00	7.02
57 t	2,6-Dinitrotoluene	0.304	0.273	10.2	71	0.00	6.98
59 t	Acenaphthene	1.293	1.166	9.8	76	0.00	7.16
63 t	2,4-Dinitrotoluene	0.401	0.348	13.2	68	-0.01	7.31
65 t	Diethylphthalate	1.267	1.209	4.6	73	-0.01	7.50
66 t	Fluorene	1.379	1.228	10.9	72	-0.01	7.59
67 t	4-Chlorophenyl-phenylethe	0.611	0.610	0.2	75	0.00	7.59
69 I	Phenanthrene-d10	1.000	1.000	0.0	76	0.00	8.43
71 t	n-Nitrosodiphenylamine	0.531	0.490	7.7	71	-0.01	7.69
72 t	1,2-Diphenylhydrazine	0.627	0.614	2.1	74	0.00	7.72
74 t	4-Bromophenyl-phenylether	0.218	0.214	1.8	71	0.00	8.00
75 t	Hexachlorobenzene	0.263	0.245	6.8	67	0.00	8.07
77 t	Phenanthrene	1.196	1.051	12.1	70	0.00	8.45
78 t	Anthracene	1.204	1.028	14.6	67	-0.01	8.50
80 t	Di-n-butylphthalate	1.287	1.266	1.6	69	0.00	9.05

Initial Calibration Verification

Page 2 of 2

Job Number: JB75844

Account: LANGAN Langan Engineering & Environmental

Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

Sample: E2P1692-ICV1691

Lab FileID: 2P40367.D

81 t	Fluoranthene	1.384	1.223	11.6	66	0.00	9.78
83 I	Chrysene-d12	1.000	1.000	0.0	72	0.01	11.73
84 t	Pyrene	1.426	1.304	8.6	65	0.00	10.05
86 t	Butylbenzylphthalate	0.582	0.600	-3.1	67	0.00	10.97
88 t	Benzo[a]anthracene	1.273	1.147	9.9	66	0.00	11.71
89 t	3,3'-Dichlorobenzidine	0.447	0.325	27.3	55	0.00	11.71
90 t	Chrysene	1.097	1.014	7.6	68	0.00	11.76
91 t	bis(2-Ethylhexyl)phthalat	0.754	0.769	-2.0	68	0.00	11.84
92 I	Perylene-d12	1.000	1.000	0.0	68	0.00	13.73
93 t	Di-n-octylphthalate	1.533	1.671	-9.0	66	0.00	12.78
94 t	Benzo[b]fluoranthene	1.373	1.256	8.5	61	-0.02	13.23
95 t	Benzo[k]fluoranthene	1.251	1.234	1.4	69	-0.02	13.27
96 t	Benzo[a]pyrene	1.185	1.166	1.6	66	-0.01	13.66
97 t	Indeno[1,2,3-cd]pyrene	1.375	1.366	0.7	68	-0.02	15.14
99 t	Dibenz[a,h]anthracene	1.090	1.093	-0.3	68	-0.02	15.17
101 t	Benzo[g,h,i]perylene	1.080	1.101	-1.9	71	-0.02	15.53

(#) = Out of Range
2p40360.D M2P1691.M

SPCC's out = 0 CCC's out = 0
Fri Sep 05 20:32:15 2014 RPT1

Initial Calibration Verification

Page 1 of 1

Job Number: JB75844

Sample: E2P1692-ICV1692

Account: LANGAN Langan Engineering & Environmental

Lab FileID: 2P40368A.D

Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\2P1692\2p40368a.D Vial: 12
 Acq On : 5 Sep 2014 8:28 pm Operator: harpreek
 Sample : icv1692-50 Inst : MS2P
 Misc : op77543,e2p1692,1000,,,1,1 Multiplr: 1.00
 MS Integration Params: lscint.p

Method : C:\MSDCHEM\1\METHODS\M2P1691.M (RTE Integrator)
 Title : Semi Volatile Extractables by GC/MS
 Last Update : Fri Sep 05 20:04:38 2014
 Response via : Multiple Level Calibration

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

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
102 I	1,4-Dichlorobenzene-d4a	1.000	1.000	0.0	101	0.00	4.65
103	Benzaldehyde	0.709	0.945	-33.3#	132	0.00	4.28
104 I	Acenaphthene-d10a	1.000	1.000	0.0	98	0.00	7.14
105	Atrazine	0.164	0.170	-3.7	94	0.00	8.17

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

2p40360.D M2P1691.M

Fri Sep 05 21:13:45 2014 RPT1

8.7.6

8

Initial Calibration Verification

Page 1 of 1

Job Number: JB75844

Sample: E2P1692-ICV1691

Account: LANGAN Langan Engineering & Environmental

Lab FileID: 2P40368.D

Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\2P1692\2p40368.D

Vial: 12

Acq On : 5 Sep 2014 8:28 pm

Operator: harpreek

Sample : icv1691-50

Inst : MS2P

Misc : op77543,e2p1692,1000,,,1,1

Multiplr: 1.00

MS Integration Params: lscint.p

Method : C:\MSDCHEM\1\METHODS\M2P1691.M (RTE Integrator)

Title : Semi Volatile Extractables by GC/MS

Last Update : Fri Sep 05 20:04:38 2014

Response via : Multiple Level Calibration

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

Max. RRF Dev : 30% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1 I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	76	0.00	4.65
2 t	1,4-Dioxane	0.399	0.430	-7.8	82	0.01	1.94
6 t	Indene	2.037	2.128	-4.5	79	0.00	4.86
7 t	Cumene	3.036	2.958	2.6	71	0.00	3.98
13 t	Decane	1.403	1.348	3.9	76	0.00	4.52
18 t	Acetophenone	1.678	1.538	8.3	70	0.00	4.98
24 I	Naphthalene-d8	1.000	1.000	0.0	76	0.00	5.69
27 t	Quinoline	0.642	0.624	2.8	72	-0.03	5.99
40 t	2,3-Dichloroaniline	0.383	0.309	19.3	63	0.00	6.52
41 t	Caprolactam	0.089	0.081	9.0	66	-0.04	6.05
45 t	1-Methylnaphthalene	0.627	0.566	9.7	70	0.00	6.36
46 t	Dimethylnaphthalene	0.618	0.560	9.4	70	0.00	6.80
47 I	Acenaphthene-d10	1.000	1.000	0.0	70	0.00	7.14
53 t	Biphenyl	1.521	1.459	4.1	71	0.00	6.67
69 I	Phenanthrene-d10	1.000	1.000	0.0	67	0.00	8.43
82 t	Octadecane	0.314	0.313	0.3	72	0.00	8.33
92 I	Perylene-d12	1.000	1.000	0.0	69	0.00	13.73
100 t	7,12-Dimethylbenz(a)anthr	0.562	0.510	9.3	59	-0.02	13.21

(#) = Out of Range

2p40360.D M2P1691.M

SPCC's out = 0 CCC's out = 0

Fri Sep 05 21:13:43 2014 RPT1

Initial Calibration Verification

Page 1 of 1

Job Number: JB75844

Sample: E2P1692-ICV1691

Account: LANGAN Langan Engineering & Environmental

Lab FileID: 2P40369.D

Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\2P1692\2p40369.D Vial: 13
 Acq On : 5 Sep 2014 8:51 pm Operator: harpreek
 Sample : icv1691-50 Inst : MS2P
 Misc : op77543,e2p1692,1000,,,1,1 Multiplr: 1.00
 MS Integration Params: lscint.p

Method : C:\MSDCHEM\1\METHODS\M2P1691.M (RTE Integrator)
 Title : Semi Volatile Extractables by GC/MS
 Last Update : Fri Sep 05 20:04:38 2014
 Response via : Multiple Level Calibration

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

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1 I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	76	0.00	4.65
3 t	Pyridine	1.041	1.099	-5.6	80	0.12	2.41
10	Aniline	1.728	1.711	1.0	85	0.00	4.39
16 t	Benzyl alcohol	0.772	0.771	0.1	71	0.00	4.78
24 I	Naphthalene-d8	1.000	1.000	0.0	82	0.00	5.69
39 t	4-Chloroaniline	0.439	0.376	14.4	75	0.00	5.77
44 t	2-Methylnaphthalene	0.661	0.575	13.0	71	0.00	6.28
47 I	Acenaphthene-d10	1.000	1.000	0.0	74	0.00	7.14
54 t	2-Nitroaniline	0.385	0.326	15.3	69	0.00	6.78
58 t	3-Nitroaniline	0.364	0.314	13.7	65	0.00	7.12
62 t	Dibenzofuran	1.741	1.592	8.6	70	0.00	7.31
68 t	4-Nitroaniline	0.342	0.299	12.6	68	-0.02	7.63
69 I	Phenanthrene-d10	1.000	1.000	0.0	71	0.00	8.43
79 t	Carbazole	1.023	1.015	0.8	71	0.00	8.68

(#) = Out of Range
 2p40360.D M2P1691.M

SPCC's out = 0 CCC's out = 0
 Fri Sep 05 21:13:47 2014 RPT1

8.7.8

8

Initial Calibration Verification

Page 1 of 1

Job Number: JB75844

Account: LANGAN Langan Engineering & Environmental

Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

Sample: E2P1692-ICV1692

Lab FileID: 2P40371.D

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\2P1692\2p40371.D Vial: 15
Acq On : 5 Sep 2014 9:37 pm Operator: harpreek
Sample : icv1692-50 Inst : MS2P
Misc : op77543,e2p1692,1000,,,1,1 Multiplr: 1.00
MS Integration Params: lscint.p

Method : C:\MSDCHEM\1\METHODS\M2P1691.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Sep 05 20:04:38 2014
Response via : Multiple Level Calibration

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

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
107 I	Chrysene-d12a	1.000	1.000	0.0	110	0.00	11.72
108	Benzidine	0.536	0.657	-22.6	133	0.00	9.96

(#) = Out of Range

2p40360.D M2P1691.M

SPCC's out = 0 CCC's out = 0

Fri Sep 05 22:09:34 2014 RPT1

8.7.9

8

Initial Calibration Verification

Page 1 of 1

Job Number: JB75844

Sample: E2P1692-ICV1691

Account: LANGAN Langan Engineering & Environmental

Lab FileID: 2P40372.D

Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\2P1692\2p40372.D

Vial: 16

Acq On : 5 Sep 2014 10:00 pm

Operator: harpreek

Sample : icv1691-50

Inst : MS2P

Misc : op77543,e2p1692,1000,,,1,1

Multiplr: 1.00

MS Integration Params: lscint.p

Method : C:\MSDCHEM\1\METHODS\M2P1691.M (RTE Integrator)

Title : Semi Volatile Extractables by GC/MS

Last Update : Fri Sep 05 20:04:38 2014

Response via : Multiple Level Calibration

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

Max. RRF Dev : 30% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1 I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	79	0.00	4.65
5 S	2-Fluorophenol	1.075	1.202	-11.8	79	0.00	3.58
8 S	Phenol-d5	1.366	1.367	-0.1	75	0.00	4.39
24 I	Naphthalene-d8	1.000	1.000	0.0	81	0.00	5.70
25 S	Nitrobenzene-d5	0.323	0.335	-3.7	86	0.00	5.11
47 I	Acenaphthene-d10	1.000	1.000	0.0	74	0.00	7.14
51 S	2-Fluorobiphenyl	1.302	1.432	-10.0	86	0.00	6.59
69 I	Phenanthrene-d10	1.000	1.000	0.0	72	0.00	8.43
73 S	2,4,6-Tribromophenol	0.117	0.117	0.0	73	0.00	7.80
83 I	Chrysene-d12	1.000	1.000	0.0	69	0.01	11.73
85 S	Terphenyl-d14	0.828	0.916	-10.6	77	0.00	10.28

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

2p40360.D M2P1691.M

Fri Sep 05 22:34:54 2014 RPT1

8.7.10

8

Continuing Calibration Summary

Page 1 of 3

Job Number: JB75844

Sample: E2P1697-CC1691

Account: LANGAN Langan Engineering & Environmental

Lab FileID: 2P40502.D

Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\2P1697\2p40502.D

Vial: 2

Acq On : 9 Sep 2014 8:00 am

Operator: samtap

Sample : cc1691-50

Inst : MS2P

Misc : op77543,e2p1697

Multiplr: 1.00

MS Integration Params: lscint.p

Method : C:\MSDCHEM\1\METHODS\M2P1691.M (RTE Integrator)

Title : Semi Volatile Extractables by GC/MS

Last Update : Tue Sep 09 10:44:37 2014

Response via : Multiple Level Calibration

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

Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1 I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	85	0.00	4.63
2 t	1,4-Dioxane	0.399	0.331	17.0	70	0.00	1.90
3 t	Pyridine	1.041	0.895	14.0	73	0.00	2.25
4 t	N-Nitrosodimethylamine	0.589	0.582	1.2	72	0.00	2.23
5 S	2-Fluorophenol	1.075	1.123	-4.5	79	0.00	3.58
6 t	Indene	2.037	2.065	-1.4	86	0.00	4.84
7 t	Cumene	3.036	3.081	-1.5	83	0.00	3.96
8 S	Phenol-d5	1.366	1.399	-2.4	82	0.00	4.39
9 t	Phenol	1.539	1.611	-4.7	79	0.00	4.40
10	Aniline	1.728	1.344	22.2#	75	0.00	4.37
11 t	bis(2-Chloroethyl)ether	1.000	1.101	-10.1	86	0.00	4.42
12 t	2-Chlorophenol	1.389	1.453	-4.6	85	0.00	4.47
13 t	Decane	1.403	1.380	1.6	87	0.00	4.51
14 t	1,3-Dichlorobenzene	1.573	1.681	-6.9	86	0.00	4.58
15 t	1,4-Dichlorobenzene	1.605	1.670	-4.0	86	0.00	4.65
16 t	Benzyl alcohol	0.772	0.809	-4.8	83	0.00	4.77
17 t	1,2-Dichlorobenzene	1.482	1.598	-7.8	88	0.00	4.77
18 t	Acetophenone	1.678	1.678	0.0	86	0.00	4.97
19 t	2-Methylphenol	1.047	1.012	3.3	85	0.00	4.89
20 t	2,2'-oxybis(1-Chloropropa	0.343	0.357	-4.1	85	0.00	4.87
21 t	3&4-Methylphenol	1.103	1.129	-2.4	87	0.00	5.01
22 t	n-Nitroso-di-n-propylamin	0.731	0.816	-11.6	88	0.00	4.98
23 t	Hexachloroethane	0.599	0.626	-4.5	86	0.00	5.04
24 I	Naphthalene-d8	1.000	1.000	0.0	85	0.00	5.68
25 S	Nitrobenzene-d5	0.323	0.324	-0.3	87	0.00	5.10
26 t	Nitrobenzene	0.321	0.340	-5.9	89	0.00	5.12
27 t	Quinoline	0.642	0.658	-2.5	85	0.00	5.99
28 t	Isophorone	0.529	0.566	-7.0	87	0.00	5.31
29 t	2-Nitrophenol	0.207	0.233	-12.6	88	0.00	5.38
30 t	2,4-Dimethylphenol	0.320	0.331	-3.4	88	0.00	5.44
31 t	Benzoic acid	0.210	0.252	-20.0	85	0.00	5.59
32 t	bis(2-Chloroethoxy)methan	0.326	0.341	-4.6	85	0.00	5.49
33 t	2,4-Dichlorophenol	0.307	0.335	-9.1	85	0.00	5.60
34 t	2,6-Dichlorophenol	0.306	0.326	-6.5	86	0.00	5.77
35	1,3,5-Trichlorobenzene	0.371	0.382	-3.0	89	0.00	5.38
36 t	1,2,4-Trichlorobenzene	0.354	0.365	-3.1	85	0.00	5.64
37	1,2,3-Trichlorobenzene	0.335	0.336	-0.3	88	0.00	5.82
38 t	Naphthalene	1.057	1.071	-1.3	87	0.00	5.70
39 t	4-Chloroaniline	0.439	0.403	8.2	84	0.00	5.76
40 t	2,3-Dichloroaniline	0.383	0.382	0.3	87	0.00	6.51
41 t	Caprolactam	0.089	0.094	-5.6	86	0.00	6.07

8.7.11

8

Continuing Calibration Summary

Page 2 of 3

Job Number: JB75844

Sample: E2P1697-CC1691

Account: LANGAN Langan Engineering & Environmental

Lab FileID: 2P40502.D

Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

42 t	Hexachlorobutadiene	0.199	0.208	-4.5	87	0.00	5.80
43 t	4-Chloro-3-methylphenol	0.286	0.321	-12.2	87	0.00	6.19
44 t	2-Methylnaphthalene	0.661	0.673	-1.8	86	0.00	6.27
45 t	1-Methylnaphthalene	0.627	0.631	-0.6	88	0.00	6.35
46 t	Dimethylnaphthalene	0.618	0.625	-1.1	88	0.00	6.78
47 I	Acenaphthene-d10	1.000	1.000	0.0	88	0.00	7.12
----- True Calc. % Drift -----							
48 t	Hexachlorocyclopentadiene	100.000	99.734	0.3	84	0.00	6.39
----- AvgRF CCRF % Dev -----							
49 t	2,4,6-Trichlorophenol	0.377	0.392	-4.0	87	0.00	6.52
50 t	2,4,5-Trichlorophenol	0.403	0.390	3.2	88	0.00	6.57
51 S	2-Fluorobiphenyl	1.302	1.243	4.5	89	0.00	6.57
52 t	2-Chloronaphthalene	1.159	1.129	2.6	87	0.00	6.67
53 t	Biphenyl	1.521	1.453	4.5	88	0.00	6.65
54 t	2-Nitroaniline	0.385	0.360	6.5	90	0.00	6.77
55 t	Dimethylphthalate	1.275	1.330	-4.3	89	0.00	6.91
56 t	Acenaphthylene	2.001	1.922	3.9	88	0.00	7.01
57 t	2,6-Dinitrotoluene	0.304	0.307	-1.0	88	0.00	6.97
58 t	3-Nitroaniline	0.364	0.350	3.8	86	0.00	7.11
59 t	Acenaphthene	1.293	1.232	4.7	89	0.00	7.15
60 t	2,4-Dinitrophenol	0.178	0.189	-6.2	87	0.00	7.21
61 t	4-Nitrophenol	0.153	0.179	-17.0	89	0.00	7.30
62 t	Dibenzofuran	1.741	1.672	4.0	87	0.00	7.29
63 t	2,4-Dinitrotoluene	0.401	0.412	-2.7	89	0.00	7.30
64	2,3,4,6-Tetrachlorophenol	0.330	0.354	-7.3	86	0.00	7.41
65 t	Diethylphthalate	1.267	1.331	-5.1	89	0.00	7.49
66 t	Fluorene	1.379	1.368	0.8	88	0.00	7.58
67 t	4-Chlorophenyl-phenylether	0.611	0.665	-8.8	90	0.00	7.57
68 t	4-Nitroaniline	0.342	0.332	2.9	90	0.00	7.63
69 I	Phenanthrene-d10	1.000	1.000	0.0	87	0.00	8.41
70 t	4,6-Dinitro-2-methylpheno	0.132	0.159	-20.5#	88	0.00	7.65
71 t	n-Nitrosodiphenylamine	0.531	0.533	-0.4	88	0.00	7.68
72 t	1,2-Diphenylhydrazine	0.627	0.662	-5.6	91	0.00	7.71
73 S	2,4,6-Tribromophenol	0.117	0.115	1.7	85	0.00	7.79
74 t	4-Bromophenyl-phenylether	0.218	0.227	-4.1	85	0.00	7.99
75 t	Hexachlorobenzene	0.263	0.280	-6.5	87	0.00	8.06
76 t	Pentachlorophenol	0.134	0.158	-17.9	89	0.00	8.26
77 t	Phenanthrene	1.196	1.179	1.4	90	0.00	8.44
78 t	Anthracene	1.204	1.180	2.0	88	0.00	8.49
79 t	Carbazole	1.023	1.029	-0.6	88	0.00	8.66
80 t	Di-n-butylphthalate	1.287	1.398	-8.6	88	0.00	9.03
81 t	Fluoranthene	1.384	1.375	0.7	85	0.00	9.75
82 t	Octadecane	0.314	0.316	-0.6	94	0.00	8.30
83 I	Chrysene-d12	1.000	1.000	0.0	88	0.00	11.70
84 t	Pyrene	1.426	1.430	-0.3	88	0.00	10.03
85 S	Terphenyl-d14	0.828	0.804	2.9	86	0.00	10.25
86 t	Butylbenzylphthalate	0.582	0.631	-8.4	86	0.00	10.94
87	Butyl stearate	0.382	0.370	3.1	91	0.00	11.07
88 t	Benzo[a]anthracene	1.273	1.222	4.0	86	0.00	11.68
89 t	3,3'-Dichlorobenzidine	0.447	0.451	-0.9	87	0.00	11.68
90 t	Chrysene	1.097	1.052	4.1	86	0.00	11.74
91 t	bis(2-Ethylhexyl)phthalat	0.754	0.823	-9.2	89	0.00	11.80
92 I	Perylene-d12	1.000	1.000	0.0	80	0.00	13.71
93 t	Di-n-octylphthalate	1.533	1.845	-20.4#	85	0.00	12.75

8.7.11

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Continuing Calibration Summary

Page 3 of 3

Job Number: JB75844

Account: LANGAN Langan Engineering & Environmental

Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

Sample: E2P1697-CC1691

Lab FileID: 2P40502.D

94 t	Benzo[b]fluoranthene	1.373	1.446	-5.3	82	0.00	13.21
95 t	Benzo[k]fluoranthene	1.251	1.314	-5.0	85	0.00	13.25
96 t	Benzo[a]pyrene	1.185	1.197	-1.0	79	0.00	13.64
97 t	Indeno[1,2,3-cd]pyrene	1.375	1.269	7.7	74	0.00	15.12
98 t	Dibenz(a,h)acridine	0.917	0.798	13.0	69	0.00	14.80
99 t	Dibenz[a,h]anthracene	1.090	1.052	3.5	76	0.00	15.14
100 t	7,12-Dimethylbenz(a)anthr	0.562	0.596	-6.0	80	0.00	13.19
101 t	Benzo[g,h,i]perylene	1.080	0.923	14.5	69	0.00	15.51

(#) = Out of Range

2p40502.D M2P1691.M

SPCC's out = 0 CCC's out = 0

Tue Sep 09 10:46:07 2014 RPT1

8.7.11

8

Continuing Calibration Summary

Page 1 of 1

Job Number: JB75844

Sample: E2P1697-CC1692

Account: LANGAN Langan Engineering & Environmental

Lab FileID: 2P40503.D

Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\2P1697\2p40503.D Vial: 3
 Acq On : 9 Sep 2014 8:32 am Operator: samtap
 Sample : cc1692-50 Inst : MS2P
 Misc : op77543,e2p1697 Multiplr: 1.00
 MS Integration Params: lscint.p

Method : C:\MSDCHEM\1\METHODS\M2P1691.M (RTE Integrator)
 Title : Semi Volatile Extractables by GC/MS
 Last Update : Tue Sep 09 16:48:09 2014
 Response via : Multiple Level Calibration

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

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
102 I	1,4-Dichlorobenzene-d4a	1.000	1.000	0.0	79	-0.02	4.63
103	Benzaldehyde	0.709	0.727	-2.5	80	-0.02	4.27
104 I	Acenaphthene-d10a	1.000	1.000	0.0	87	-0.01	7.13
105	Atrazine	0.164	0.169	-3.0	84	-0.02	8.16
106	1,2,4,5-Tetrachlorobenzen	0.616	0.584	5.2	82	-0.01	6.42
107 I	Chrysene-d12a	1.000	1.000	0.0	85	-0.02	11.70
108	Benzidine	0.536	0.488	9.0	77	-0.02	9.94

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

2p40360.D M2P1691.M

Wed Sep 10 12:30:09 2014 RPT1

8.7.12

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Initial Calibration Summary

Page 1 of 1

Job Number: JB75844

Sample: EP3770-ICC3770

Account: LANGAN Langan Engineering & Environmental

Lab FileID: P88233.D

Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

Response Factor Report MSP

Method : C:\MSDCHEM\1\METHODS\MP3770.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Sat Aug 23 10:46:47 2014
Response via : Initial Calibration

Calibration Files

2 =P88237.D 5 =P88236.D 25 =P88234.D 80 =P88232.D
100 =P88231.D 50 =P88233.D 10 =P88235.D 1 =P88238.D

Compound	2	5	25	80	100	50	10	1	Avg %RSD
157) I 1,4-Dichlorobenzene-d	-----	-----	-----	-----	-----	-----	-----	-----	-----
158) Benzaldehyde	1.473	1.450	1.180	0.889	1.212	1.415	1.313	1.276	16.09
159) I Phenanthrene-d10b	-----	-----	-----	-----	-----	-----	-----	-----	-----
160) Atrazine	0.173	0.197	0.205	0.204	0.194	0.231	0.221	0.204	9.20
161) I Chrysene-d12b	-----	-----	-----	-----	-----	-----	-----	-----	-----
162) Benzidine	0.553	0.748	0.510	0.715	0.762	0.658	17.81		
163) I Naphthalene-d8b	-----	-----	-----	-----	-----	-----	-----	-----	-----
164) Hydroquinone	0.258	0.297	0.283	0.302	0.183	0.265	18.45		
165) I Acenaphthene-d10b	-----	-----	-----	-----	-----	-----	-----	-----	-----
166) 1,2,4,5-Tetr	0.689	0.695	0.580	0.574	0.552	0.642	0.681	0.681	0.637

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

MP3770.M

Sat Aug 23 13:54:35 2014

8.7.13

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Initial Calibration Summary

Page 1 of 3

Job Number: JB75844

Sample: EP3771-ICC3771

Account: LANGAN Langan Engineering & Environmental

Lab FileID: P88242.D

Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

Response Factor Report MSP

Method : C:\MSDCHEM\1\METHODS\MP3771.M (RTE Integrator)
 Title : Semi Volatile Extractables by GC/MS
 Last Update : Sat Aug 23 14:01:15 2014
 Response via : Initial Calibration

Calibration Files

2 =P88246.D 5 =P88245.D 25 =P88243.D 80 =P88241.D
 100 =P88240.D 50 =P88242.D 10 =P88244.D 1 =P88247.D

Compound	2	5	25	80	100	50	10	1	Avg %RSD
1) I 1,4-Dichlorobenzene-d	-----ISTD-----								
2) 1,4-Dioxane	0.722	0.591	0.607	0.613	0.579	0.628	0.694	0.776	10.92
3) Pyridine	1.955	1.608	1.600	1.597	1.487	1.660	1.842	1.935	10.25
4) N-Nitrosodim	0.677	0.554	0.559	0.570	0.543	0.578	0.651	0.680	9.62
5) 2-Fluorophen	1.722	1.439	1.457	1.419	1.324	1.495	1.682	1.787	10.82
6) Indene	3.066	2.514	2.327	1.894	1.756	2.205	2.715		2.354 19.43
7) Cumene	4.628	3.703	3.579	3.046	2.806	3.498	4.120	4.789	3.771 18.66
8) Phenol-d5	2.120	1.749	1.792	1.750	1.663	1.845	2.096	2.191	1.901 10.67
9) Phenol	2.508	2.030	2.023	1.893	1.758	1.981	2.332	2.541	2.133 13.62
10) Aniline	3.231	2.545	2.382	1.821		2.251	2.763	3.245	2.605 19.94
11) bis(2-Chloro	1.895	1.528	1.466	1.320	1.254	1.416	1.704	2.033	1.577 17.56
12) 2-Chlorophen	2.063	1.667	1.587	1.333	1.227	1.527	1.849	2.097	1.669 19.02
13) Decane	1.609	1.262	1.151	0.908		1.075	1.341		1.224 19.70
14) 1,3-Dichloro	2.344	1.882	1.758	1.504	1.410	1.704	2.030	2.396	1.878 19.21
15) 1,4-Dichloro	2.273	1.789	1.686	1.452	1.346	1.663	1.904	2.326	1.805 19.53
16) Benzyl alcoh	1.160	0.995	1.023	0.940	0.857	1.028	1.183	1.160	1.043 11.18
17) 1,2-Dichloro	2.176	1.732	1.590	1.299		1.530	1.846	2.200	1.768 18.88
18) Acetophenone	2.492	2.048	1.941	1.798	1.706	1.925	2.312	2.620	2.105 15.80
19) 2-Methylphen	1.629	1.330	1.259	1.015	0.943	1.192	1.463	1.562	1.299 19.01
20) 2,2'-oxybis(	0.586	0.459	0.446	0.400	0.376	0.434	0.517	0.590	0.476 16.96
21) 3&4-Methylph	1.555	1.342	1.311	1.165	1.110	1.272	1.526	1.674	1.369 14.48
22) n-Nitroso-di	1.212	0.987	0.916	0.640		0.886	1.080	1.189	0.987 20.07
----- Quadratic regression -----									Coefficient = 0.9961
Response Ratio = -0.01259 + 1.19291 *A + -0.26952 *A^2									
23) Hexachloroet	0.652	0.526	0.525	0.487	0.459	0.525	0.625	0.653	0.557 13.61
24) I Naphthalene-d8	-----ISTD-----								
25) Nitrobenzene	0.447	0.382	0.374	0.368	0.348	0.388	0.450	0.457	0.402 10.68
26) Nitrobenzene	0.526	0.421	0.404	0.381	0.355	0.416	0.491	0.524	0.440 14.91
27) Quinoline	0.899	0.748	0.741	0.738	0.706	0.764	0.894	0.957	0.806 11.81
28) Isophorone	0.887	0.738	0.718	0.682	0.650	0.730	0.853	0.902	0.770 12.57
29) 2-Nitropheno	0.192	0.184	0.208	0.215	0.196	0.227	0.247	0.193	0.208 10.19
30) 2,4-Dimethyl	0.366	0.320	0.346	0.346	0.327	0.368	0.388	0.341	0.350 6.45
31) Benzoic acid			0.229	0.294	0.281	0.279	0.255		0.268 9.57
32) bis(2-Chloro	0.594	0.473	0.446	0.419	0.397	0.449	0.540	0.641	0.495 17.69
33) 2,4-Dichloro	0.360	0.305	0.319	0.297	0.278	0.326	0.384	0.362	0.329 11.14
34) 2,6-Dichloro	0.366	0.307	0.307	0.273	0.258	0.307	0.363	0.395	0.322 14.89
35) 1,3,5-Trichl	0.475	0.374	0.344	0.292		0.336	0.412	0.505	0.391 19.79
36) 1,2,4-Trichl	0.476	0.369	0.348	0.308		0.342	0.413	0.499	0.394 18.26
37) 1,2,3-Trichl	0.431	0.338	0.302	0.252		0.295	0.368	0.470	0.351 22.17
38) Naphthalene	1.567	1.248	1.168	0.964		1.134	1.356	1.636	1.296 18.57
39) 4-Chloroanil	0.604	0.485	0.486	0.388	0.357	0.476	0.580	0.607	0.498 18.99
40) 2,3-Dichloro	0.478	0.380	0.370	0.340	0.320	0.371	0.449	0.511	0.402 17.05
41) Caprolactam	0.125	0.121	0.133	0.149	0.146	0.146	0.161	0.118	0.137 11.17
42) Hexachlorobu	0.234	0.182	0.165	0.143		0.161	0.196	0.241	0.189 19.69

8.7.14

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Initial Calibration Summary

Page 2 of 3

Job Number: JB75844

Sample: EP3771-ICC3771

Account: LANGAN Langan Engineering & Environmental

Lab FileID: P88242.D

Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

43)	4-Chloro-3-m	0.348	0.304	0.327	0.337	0.325	0.348	0.391	0.331	0.339	7.49
44)	2-Methylnaph	0.922	0.741	0.699	0.592		0.686	0.846	0.975	0.780	17.74
45)	1-Methylnaph	0.999	0.785	0.735	0.632		0.731	0.885	1.056	0.832	18.54
46)	Dimethylnaph	0.812	0.671	0.624	0.544	0.509	0.616	0.762	0.898	0.680	19.82
47)	I Acenaphthene-d10	-----ISTD-----									
48)	Hexachlorocy	0.288	0.266	0.303	0.294	0.281	0.314	0.348	0.280	0.297	8.52
49)	2,4,6-Trichl	0.426	0.377	0.389	0.368	0.345	0.393	0.450	0.444	0.399	9.45
50)	2,4,5-Trichl	0.409	0.357	0.381	0.377	0.363	0.397	0.454	0.370	0.389	8.12
51)	2-Fluorobiph	1.761	1.430	1.347	1.193	1.108	1.298	1.574		1.387	16.17
52)	2-Chloronaph	1.722	1.351	1.236	1.004		1.164	1.441		1.319	18.82
53)	Biphenyl	2.105	1.707	1.545	1.229		1.444	1.813	2.303	1.735	21.61
----- Quadratic regression -----											
Response Ratio = 0.01342 + 1.73429 *A + -0.25478 *A^2										Coefficient = 0.9996	
54)	2-Nitroanili	0.259	0.286	0.334	0.367	0.354	0.362	0.390	0.224	0.322	18.32
55)	Dimethylphth	1.774	1.406	1.383	1.337	1.277	1.393	1.606	1.864	1.505	14.40
56)	Acenaphthyle	2.736	2.256	2.126	1.844	1.720	2.094	2.506	2.950	2.279	18.70
57)	2,6-Dinitrot	0.265	0.259	0.300	0.312	0.296	0.314	0.338	0.229	0.289	12.21
58)	3-Nitroanili	0.311	0.312	0.387	0.415	0.399	0.421	0.444	0.276	0.370	16.76
59)	Acenaphthene	1.739	1.397	1.330	1.133	1.076	1.287	1.505	1.882	1.419	19.74
60)	2,4-Dinitrop			0.125	0.186	0.183	0.165	0.135		0.159	17.39
61)	4-Nitropheno			0.158	0.207	0.206	0.183	0.185		0.188	10.75
62)	Dibenzofuran	2.349	1.861	1.731	1.487		1.669	2.008	2.516	1.946	19.14
63)	2,4-Dinitrot	0.372	0.356	0.394	0.377	0.361	0.402	0.456	0.327	0.381	10.04
64)	2,3,4,6-Tetr	0.300	0.277	0.311	0.321	0.307	0.333	0.368	0.286	0.313	9.05
65)	Diethylphtha	1.719	1.390	1.377	1.313	1.244	1.405	1.619	1.780	1.481	13.37
66)	Fluorene	1.880	1.531	1.452	1.276	1.207	1.417	1.692	1.983	1.555	17.80
67)	4-Chlorophen	0.813	0.647	0.609	0.528	0.500	0.591	0.708	0.865	0.658	19.77
68)	4-Nitroanili	0.302	0.323	0.375	0.390	0.376	0.394	0.435	0.236	0.354	17.89
69)	I Phenanthrene-d10	-----ISTD-----									
70)	4,6-Dinitro-			0.121	0.174	0.170	0.155	0.141		0.152	14.17
71)	n-Nitrosodip	0.793	0.655	0.644	0.637	0.611	0.664	0.740	0.808	0.694	10.88
72)	1,2-Diphenyl	1.197	0.975	0.961	0.912	0.857	0.977	1.139	1.254	1.034	13.90
73)	2,4,6-Tribo	0.087	0.085	0.104	0.115	0.111	0.114	0.118	0.087	0.103	13.80
74)	4-Bromopheny	0.279	0.225	0.231	0.237	0.230	0.243	0.268	0.298	0.251	10.74
75)	Hexachlorobe	0.344	0.269	0.261	0.260	0.250	0.269	0.307	0.374	0.292	15.56
76)	Pentachlorop	0.124	0.125	0.154	0.168	0.164	0.166	0.177	0.112	0.149	16.59
77)	Phenanthrene	1.665	1.339	1.300	1.206	1.149	1.299	1.471	1.840	1.409	16.84
78)	Anthracene	1.607	1.326	1.319	1.246	1.182	1.329	1.515	1.683	1.401	12.79
79)	Carbazole	1.438	1.202	1.224	1.225	1.172	1.262	1.422	1.492	1.305	9.58
80)	Di-n-butylph	1.538	1.372	1.555	1.592	1.518	1.656	1.823	1.512	1.571	8.27
81)	Fluoranthene	1.626	1.381	1.416	1.425	1.370	1.468	1.668	1.710	1.508	9.13
82)	Octadecane	0.514	0.424	0.456	0.413	0.393	0.460	0.505	0.512	0.460	10.28
83)	I Chrysene-d12	-----ISTD-----									
84)	Pyrene	1.909	1.563	1.542	1.507	1.431	1.583	1.769	2.022	1.666	12.63
85)	Terphenyl-d1	1.008	0.833	0.859	0.882	0.839	0.915	0.974	1.081	0.924	9.66
86)	Butylbenzylp	0.504	0.518	0.677	0.782	0.751	0.785	0.766		0.683	18.06
87)	Butyl steara	0.244	0.262	0.348	0.355	0.331	0.386	0.401		0.332	17.83
88)	Benzo[a]anth	1.475	1.238	1.294	1.366	1.310	1.400	1.475	1.613	1.396	8.70
89)	3,3'-Dichlor	0.290	0.294	0.396	0.433	0.411	0.443	0.415		0.383	16.75
90)	Chrysene	1.533	1.243	1.230	1.206	1.158	1.260	1.363	1.628	1.328	12.69
91)	bis(2-Ethylh	0.632	0.678	0.913	1.022	0.972	1.038	1.033		0.898	19.15
92)	I Perylene-d12	-----ISTD-----									
93)	Di-n-octylph	0.903	1.102	1.532	1.754	1.646	1.764	1.909	0.732	1.418	31.26
----- Quadratic regression -----											
Response Ratio = -0.06241 + 1.90218 *A + -0.08281 *A^2										Coefficient = 0.9979	

8.7.14

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Initial Calibration Summary

Page 3 of 3

Job Number: JB75844

Sample: EP3771-ICC3771

Account: LANGAN Langan Engineering & Environmental

Lab FileID: P88242.D

Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

94)	Benzo[b]fluo	1.618	1.376	1.391	1.415	1.369	1.389	1.668	1.504	1.466	8.03
95)	Benzo[k]fluo	1.774	1.544	1.349	1.124		1.271	1.699	1.899	1.523	18.73
96)	Benzo[a]pyre	1.317	1.214	1.240	1.239	1.168	1.282	1.504	1.316	1.285	7.94
97)	Indeno[1,2,3	1.084	1.083	1.197	1.280	1.227	1.270	1.456	1.063	1.207	10.97
98)	Dibenz(a,h)a	0.891	0.884	0.999	1.076	1.017	1.068	1.219	0.819	0.997	12.95
99)	Dibenz[a,h]a	1.365	1.227	1.231	1.222	1.141	1.263	1.505	1.362	1.289	8.91
100)	7,12-Dimethy	0.246	0.313	0.575	0.540	0.522	0.576	0.521	0.287	0.448	31.24

----- Linear regression ----- Coefficient = 0.9971

Response Ratio = -0.00139 + 0.53724 *A

101)	Benzo[g,h,i]	1.473	1.279	1.261	1.280	1.210	1.299	1.545	1.484	1.354	9.32

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

MP3770.M

Sat Aug 23 14:09:21 2014

8.7.14

8

Initial Calibration Verification

Page 1 of 2

Job Number: JB75844

Account: LANGAN Langan Engineering & Environmental

Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

Sample: EP3771-ICV3771

Lab FileID: P88250.D

Evaluate Continuing Calibration Report

Data File : C:\MSDCHEM\1\DATA\EP3770\P88250.D

Vial: 20

Acq On : 23 Aug 2014 3:27 am

Operator: kristis

Sample : icv3771-50

Inst : MSP

Misc : op76634,ep3771,1000,,,1,1

Multiplr: 1.00

MS Integration Params: rteint.p

Method : C:\MSDCHEM\1\METHODS\MP3770.M (RTE Integrator)

Title : Semi Volatile Extractables by GC/MS

Last Update : Wed Sep 03 15:00:19 2014

Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 48% Max. R.T. Dev 0.50min

Max. RRF Dev : 30% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1 I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	139	0.07	4.37
2 t	1,4-Dioxane	0.651	0.664	-2.0	147	0.07	1.82
6 t	Indene	2.354	2.661	-13.0	168	0.07	4.70
7 t	Cumene	3.771	3.565	5.5	142	0.07	3.46
13 t	Decane	1.224	1.131	7.6	147	0.07	4.18
18 t	Acetophenone	2.105	2.070	1.7	150	0.07	4.89
24 I	Naphthalene-d8	1.000	1.000	0.0	140	0.07	6.11
27 t	Quinoline	0.806	0.765	5.1	140	0.06	6.65
40 t	2,3-Dichloroaniline	0.402	0.343	14.7	130	0.07	7.66
41 t	Caprolactam	0.137	0.135	1.5	130	0.03	6.74
45 t	1-Methylnaphthalene	0.832	0.744	10.6	143	0.08	7.36
46 t	Dimethylnaphthalene	0.680	0.626	7.9	142	0.08	8.20
47 I	Acenaphthene-d10	1.000	1.000	0.0	132	0.08	8.84
53 t	Biphenyl	50.000	60.875	-21.8	151	0.08	7.96
69 I	Phenanthrene-d10	1.000	1.000	0.0	117	0.08	11.19
82 t	Octadecane	0.460	0.511	-11.1	130	0.09	11.19
83 I	Chrysene-d12	1.000	1.000	0.0	124	0.09	15.90
92 I	Perylene-d12	1.000	1.000	0.0	92	0.10	18.45
100 t	7,12-Dimethylbenz(a)anthr	50.000	35.427	29.1	60	0.09	17.83

8.7.15

8

Initial Calibration Verification

Job Number: JB75844
Account: LANGAN Langan Engineering & Environmental
Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

Sample: EP3771-ICV3771
Lab FileID: P88250.D

----- AvgRF	CCRF	% Dev	-----
-----			-----
-----			-----

(#) = Out of Range SPCC's out = 0 CCC's out = 0
P88634.D MP3770.M Fri Sep 05 16:10:24 2014

Initial Calibration Verification

Page 1 of 1

Job Number: JB75844

Account: LANGAN Langan Engineering & Environmental

Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

Sample: EP3771-ICV3770

Lab FileID: P88250A.D

Evaluate Continuing Calibration Report

Data File : C:\MSDCHEM\1\DATA\EP3770\P88250A.D Vial: 20
Acq On : 23 Aug 2014 3:27 am Operator: kristis
Sample : icv3770-50 Inst : MSP
Misc : op76634,ep3771,1000,,,1,1 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\MSDCHEM\1\METHODS\MP3770.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Sat Aug 23 14:01:15 2014
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 48% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
157 I	1,4-Dichlorobenzene-d4b	1.000	1.000	0.0	95	0.00	4.37
158	Benzaldehyde	1.276	1.353	-6.0	106	0.00	3.84
159 I	Phenanthrene-d10b	1.000	1.000	0.0	80	0.00	11.19
160	Atrazine	0.204	0.262	-28.4	90	-0.01	10.85

(#) = Out of Range
P88233.D MP3770.M

SPCC's out = 0 CCC's out = 0
Sat Aug 23 14:09:49 2014

8.7.16

8

Initial Calibration Verification

Page 1 of 1

Job Number: JB75844**Sample:** EP3771-ICV3771**Account:** LANGAN Langan Engineering & Environmental**Lab FileID:** P88251.D**Project:** Carroll Gardens, 363-365 Bond Street, Brooklyn, NY**Evaluate Continuing Calibration Report**

Data File : C:\MSDCHEM\1\DATA\EP3770\P88251.D

Vial: 21

Acq On : 23 Aug 2014 3:56 am

Operator: kristis

Sample : icv3771-50

Inst : MSP

Misc : op76634,ep3771,1000,,,1,1

Multiplr: 1.00

MS Integration Params: rteint.p

Method : C:\MSDCHEM\1\METHODS\MP3770.M (RTE Integrator)

Title : Semi Volatile Extractables by GC/MS

Last Update : Sat Aug 23 14:01:15 2014

Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 48% Max. R.T. Dev 0.50min

Max. RRF Dev : 30% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1 I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	165	0.00	4.37
5 S	2-Fluorophenol	1.540	1.363	11.5	151	0.00	2.95
8 S	Phenol-d5	1.901	1.597	16.0	143	0.00	3.91
24 I	Naphthalene-d8	1.000	1.000	0.0	161	0.00	6.11
25 S	Nitrobenzene-d5	0.402	0.379	5.7	157	0.00	5.09
47 I	Acenaphthene-d10	1.000	1.000	0.0	153	0.00	8.84
51 S	2-Fluorobiphenyl	1.387	1.328	4.3	157	0.00	7.81
69 I	Phenanthrene-d10	1.000	1.000	0.0	158	0.00	11.19
73 S	2,4,6-Tribromophenol	0.103	0.090	12.6	124	0.00	10.09
83 I	Chrysene-d12	1.000	1.000	0.0	150	-0.01	15.90
85 S	Terphenyl-d14	0.924	0.882	4.5	144	0.00	14.01

(#) = Out of Range
P88233.D MP3770.M

SPCC's out = 0 CCC's out = 0
Sat Aug 23 14:09:50 2014

8.7.17

8

Initial Calibration Verification

Page 1 of 1

Job Number: JB75844

Account: LANGAN Langan Engineering & Environmental

Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

Sample: EP3771-ICV3770

Lab FileID: P88252A.D

Evaluate Continuing Calibration Report

Data File : C:\MSDCHEM\1\DATA\EP3770\P88252A.D Vial: 22
Acq On : 23 Aug 2014 4:25 am Operator: kristis
Sample : icv3770-50 Inst : MSP
Misc : op76634,ep3771,1000,,,1,1 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\MSDCHEM\1\METHODS\MP3770.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Sat Aug 23 14:01:15 2014
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 48% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
161 I Chrysene-d12b	1.000	1.000	0.0	120	0.00	15.91
162 Benzidine	0.658	0.854	-29.8	144	0.00	13.55

(#) = Out of Range

P88233.D MP3770.M

SPCC's out = 0 CCC's out = 0

Sat Aug 23 14:09:52 2014

8.7.18

8

Initial Calibration Verification

Page 1 of 1

Job Number: JB75844

Account: LANGAN Langan Engineering & Environmental

Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

Sample: EP3771-ICV3771

Lab FileID: P88252.D

Evaluate Continuing Calibration Report

Data File : C:\MSDCHEM\1\DATA\EP3770\P88252.D Vial: 22
Acq On : 23 Aug 2014 4:25 am Operator: kristis
Sample : icv3771-50 Inst : MSP
Misc : op76634,ep3771,1000,,,1,1 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\MSDCHEM\1\METHODS\MP3770.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Sat Aug 23 14:01:15 2014
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 48% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
83 I Chrysene-d12	1.000	1.000	0.0	174	0.00	15.91
89 t 3,3'-Dichlorobenzidine	0.383	0.379	1.0	149	0.00	15.92

(#) = Out of Range
P88233.D MP3770.M

SPCC's out = 0 CCC's out = 0
Sat Aug 23 14:09:51 2014

8.7.19

8

Initial Calibration Verification

Page 1 of 1

Job Number: JB75844

Sample: EP3771-ICV3771

Account: LANGAN Langan Engineering & Environmental

Lab FileID: P88254.D

Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

Evaluate Continuing Calibration Report

Data File : C:\MSDCHEM\1\DATA\EP3770\P88254.D

Vial: 24

Acq On : 23 Aug 2014 5:22 am

Operator: kristis

Sample : icv3771-50

Inst : MSP

Misc : op76634,ep3771,1000,,,1,1

Multiplr: 1.00

MS Integration Params: rteint.p

Method : C:\MSDCHEM\1\METHODS\MP3770.M (RTE Integrator)

Title : Semi Volatile Extractables by GC/MS

Last Update : Sat Aug 23 14:01:15 2014

Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 48% Max. R.T. Dev 0.50min

Max. RRF Dev : 30% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1 I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	127	0.00	4.36
3 t	Pyridine	1.711	1.713	-0.1	131	0.10	2.10
10 t	Aniline	2.605	2.322	10.9	131	0.00	3.97
16 t	Benzyl alcohol	1.043	0.917	12.1	113	0.00	4.54
24 I	Naphthalene-d8	1.000	1.000	0.0	131	0.00	6.11
39 t	4-Chloroaniline	0.498	0.426	14.5	117	0.00	6.25
44 t	2-Methylnaphthalene	0.780	0.588	24.6	112	0.00	7.21
47 I	Acenaphthene-d10	1.000	1.000	0.0	119	0.00	8.83
54 t	2-Nitroaniline	0.322	0.289	10.2	95	0.00	8.14
58 t	3-Nitroaniline	0.370	0.335	9.5	95	0.00	8.80
62 t	Dibenzofuran	1.946	1.617	16.9	116	0.00	9.16
68 t	4-Nitroaniline	0.354	0.305	13.8	92	-0.02	9.76
69 I	Phenanthrene-d10	1.000	1.000	0.0	123	0.00	11.19
79 t	Carbazole	1.305	1.096	16.0	107	0.00	11.60

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

P88233.D MP3770.M

Sat Aug 23 14:09:53 2014

Initial Calibration Verification

Page 1 of 1

Job Number: JB75844

Sample: EP3772-ICV3771

Account: LANGAN Langan Engineering & Environmental

Lab FileID: P88256.D

Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

Evaluate Continuing Calibration Report

Data File : C:\MSDCHEM\1\DATA\EP3772\P88256.D

Vial: 18

Acq On : 23 Aug 2014 8:51 am

Operator: kristis

Sample : icv3771-50

Inst : MSP

Misc : op76634,ep3772,1000,,,1,1

Multiplr: 1.00

MS Integration Params: rteint.p

Method : C:\MSDCHEM\1\METHODS\MP3770.M (RTE Integrator)

Title : Semi Volatile Extractables by GC/MS

Last Update : Sat Aug 23 14:01:15 2014

Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 48% Max. R.T. Dev 0.50min

Max. RRF Dev : 30% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1 I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	137	0.00	4.36
9 t	Phenol	2.133	1.880	11.9	130	0.00	3.93
12 t	2-Chlorophenol	1.669	1.472	11.8	132	0.00	4.10
19 t	2-Methylphenol	1.299	1.323	-1.8	152	0.00	4.69
21 t	3&4-Methylphenol	1.369	1.336	2.4	144	-0.01	4.90
24 I	Naphthalene-d8	1.000	1.000	0.0	132	0.00	6.11
29 t	2-Nitrophenol	0.208	0.213	-2.4	124	-0.01	5.56
30 t	2,4-Dimethylphenol	0.350	0.356	-1.7	127	-0.01	5.65
31 t	Benzoic acid	0.268	0.272	-1.5	129	0.01	5.85
33 t	2,4-Dichlorophenol	0.329	0.306	7.0	123	-0.01	5.92
34	2,6-Dichlorophenol	0.322	0.302	6.2	130	-0.01	6.25
43 t	4-Chloro-3-methylphenol	0.339	0.310	8.6	117	-0.02	7.02
47 I	Acenaphthene-d10	1.000	1.000	0.0	133	0.00	8.83
49 t	2,4,6-Trichlorophenol	0.399	0.378	5.3	128	-0.01	7.66
50 t	2,4,5-Trichlorophenol	0.389	0.393	-1.0	132	-0.01	7.71
60 t	2,4-Dinitrophenol	0.159	0.128	19.4	104	-0.02	8.96
61 t	4-Nitrophenol	0.188	0.174	7.4	127	0.00	9.12
64	2,3,4,6-Tetrachlorophenol	0.313	0.289	7.7	115	0.00	9.38
69 I	Phenanthrene-d10	1.000	1.000	0.0	137	-0.01	11.19
70 t	4,6-Dinitro-2-methylpheno	0.152	0.131	13.8	115	-0.02	9.82
76 t	Pentachlorophenol	0.149	0.158	-6.0	130	-0.01	10.92

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

P88233.D MP3770.M

Sat Aug 23 14:30:52 2014

Initial Calibration Verification

Job Number: JB75844

Sample: EP3772-ICV3771

Account: LANGAN Langan Engineering & Environmental

Lab FileID: P88258.D

Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

Evaluate Continuing Calibration Report

Data File : C:\MSDCHEM\1\DATA\EP3772\P88258.D

Vial: 20

Acq On : 23 Aug 2014 9:56 am

Operator: kristis

Sample : icv3771-50

Inst : MSP

Misc : op76634,ep3772,1000,,,1,1

Multiplr: 1.00

MS Integration Params: rteint.p

Method : C:\MSDCHEM\1\METHODS\MP3770.M (RTE Integrator)

Title : Semi Volatile Extractables by GC/MS

Last Update : Sat Aug 23 14:01:15 2014

Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 48% Max. R.T. Dev 0.50min

Max. RRF Dev : 30% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1 I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	135	0.00	4.36
4 t	N-Nitrosodimethylamine	0.601	0.503	16.3	117	0.01	1.98
11 t	bis(2-Chloroethyl)ether	1.577	1.416	10.2	134	-0.01	4.03
14 t	1,3-Dichlorobenzene	1.878	1.594	15.1	126	0.00	4.30
15 t	1,4-Dichlorobenzene	1.805	1.487	17.6	120	0.00	4.38
17 t	1,2-Dichlorobenzene	1.768	1.481	16.2	130	0.00	4.58
20 t	2,2'-oxybis(1-Chloropropa	0.476	0.419	12.0	130	-0.01	4.72
----- True Calc. % Drift -----							
22	n-Nitroso-di-n-propylamin	50.000	52.102	-4.2	132	-0.01	4.89
----- AvgRF CCRF % Dev -----							
23 t	Hexachloroethane	0.557	0.484	13.1	124	0.00	5.02
24 I	Naphthalene-d8	1.000	1.000	0.0	127	0.00	6.11
26 t	Nitrobenzene	0.440	0.381	13.4	116	0.00	5.11
28 t	Isophorone	0.770	0.643	16.5	112	-0.01	5.45
32 t	bis(2-Chloroethoxy)methan	0.495	0.450	9.1	127	0.00	5.79
36 t	1,2,4-Trichlorobenzene	0.394	0.327	17.0	122	0.00	6.04
38 t	Naphthalene	1.296	1.008	22.2	113	0.00	6.14
42 t	Hexachlorobutadiene	0.189	0.160	15.3	126	0.00	6.36
47 I	Acenaphthene-d10	1.000	1.000	0.0	123	0.00	8.83
48 t	Hexachlorocyclopentadiene	0.297	0.260	12.5	102	0.00	7.48
52 t	2-Chloronaphthalene	1.319	1.180	10.5	125	0.00	7.96
55 t	Dimethylphthalate	1.505	1.269	15.7	112	0.00	8.48
56 t	Acenaphthylene	2.279	1.567	31.2#	92	0.00	8.60
57 t	2,6-Dinitrotoluene	0.289	0.266	8.0	104	0.00	8.55
59 t	Acenaphthene	1.419	1.164	18.0	111	0.00	8.89
63 t	2,4-Dinitrotoluene	0.381	0.343	10.0	105	0.00	9.18
65 t	Diethylphthalate	1.481	1.230	16.9	108	-0.02	9.61
66 t	Fluorene	1.555	1.263	18.8	110	0.00	9.71
67 t	4-Chlorophenyl-phenylethe	0.658	0.541	17.8	113	0.00	9.75
69 I	Phenanthrene-d10	1.000	1.000	0.0	130	0.00	11.19
71 t	n-Nitrosodiphenylamine	0.694	0.563	18.9	110	0.00	9.94
72 t	1,2-Diphenylhydrazine	1.034	0.809	21.8	107	0.00	9.99
74 t	4-Bromophenyl-phenylether	0.251	0.207	17.5	110	0.00	10.52
75 t	Hexachlorobenzene	0.292	0.221	24.3	107	0.00	10.59
77 t	Phenanthrene	1.409	1.081	23.3	108	0.00	11.23
78 t	Anthracene	1.401	1.071	23.6	105	0.00	11.31
80 t	Di-n-butylphthalate	1.571	1.330	15.3	104	0.00	12.30

Initial Calibration Verification

Page 2 of 2

Job Number: JB75844

Sample: EP3772-ICV3771

Account: LANGAN Langan Engineering & Environmental

Lab FileID: P88258.D

Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

81 t	Fluoranthene	1.508	1.159	23.1	102	0.00	13.24
83 I	Chrysene-d12	1.000	1.000	0.0	108	-0.01	15.90
84 t	Pyrene	1.666	1.500	10.0	102	0.00	13.63
86 t	Butylbenzylphthalate	0.683	0.728	-6.6	100	0.00	15.00
88 t	Benzo[a]anthracene	1.396	1.253	10.2	96	0.00	15.88
90 t	Chrysene	1.328	1.192	10.2	102	-0.01	15.95
91 t	bis(2-Ethylhexyl)phthalat	0.898	0.940	-4.7	98	-0.01	16.17
92 I	Perylene-d12	1.000	1.000	0.0	100	0.00	18.45
----- True Calc. % Drift -----							
93 t	Di-n-octylphthalate	50.000	48.241	3.5	96	-0.01	17.37
----- AvgRF CCRF % Dev -----							
94 t	Benzo[b]fluoranthene	1.466	1.281	12.6	93	-0.01	17.82
95 t	Benzo[k]fluoranthene	1.523	1.249	18.0	99	-0.02	17.87
96 t	Benzo[a]pyrene	1.285	1.186	7.7	93	-0.01	18.36
97 t	Indeno[1,2,3-cd]pyrene	1.207	1.117	7.5	88	-0.01	20.08
99 t	Dibenz[a,h]anthracene	1.289	1.153	10.6	92	-0.01	20.12
101 t	Benzo[g,h,i]perylene	1.354	1.201	11.3	93	-0.01	20.45

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

P88233.D MP3770.M

Sat Aug 23 14:30:53 2014

8.7.22
8

Initial Calibration Verification

Page 1 of 1

Job Number: JB75844

Sample: EP3772-ICV3770

Account: LANGAN Langan Engineering & Environmental

Lab FileID: P88258A.D

Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

Evaluate Continuing Calibration Report

Data File : C:\MSDCHEM\1\DATA\EP3772\P88258A.D Vial: 20
Acq On : 23 Aug 2014 9:56 am Operator: kristis
Sample : icv3770-50 Inst : MSP
Misc : op76634,ep3772,1000,,,1,1 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\MSDCHEM\1\METHODS\MP3770.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Sat Aug 23 14:01:15 2014
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 48% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
165 I	Acenaphthene-d10b	1.000	1.000	0.0	97	-0.01	8.83
166	1,2,4,5-Tetrachlorobenzen	0.637	0.527	17.3	80	0.00	7.48

(#) = Out of Range

P88233.D MP3770.M

SPCC's out = 0 CCC's out = 0

Sat Aug 23 14:30:54 2014

Continuing Calibration Summary

Page 1 of 3

Job Number: JB75844

Sample: EP3796-CC3771

Account: LANGAN Langan Engineering & Environmental

Lab FileID: P88854.D

Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

Evaluate Continuing Calibration Report

Data File : C:\MSDCHEM\1\DATA\EP3796\P88854.D

Vial: 2

Acq On : 9 Sep 2014 4:35 pm

Operator: ashleyd

Sample : cc3771-50

Inst : MSP

Misc : op76634,ep3796

Multiplr: 1.00

MS Integration Params: rteint.p

Method : C:\MSDCHEM\1\METHODS\MP3770.M (RTE Integrator)

Title : Semi Volatile Extractables by GC/MS

Last Update : Sat Sep 06 12:29:44 2014

Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 48% Max. R.T. Dev 0.50min

Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1 I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	111	-0.04	4.25
2 t	1,4-Dioxane	0.651	0.655	-0.6	115	-0.03	1.73
3 t	Pyridine	1.711	1.659	3.0	110	-0.03	1.92
4 t	N-Nitrosodimethylamine	0.601	0.633	-5.3	121	-0.03	1.89
5 S	2-Fluorophenol	1.540	1.460	5.2	108	-0.04	2.87
6 t	Indene	2.354	2.194	6.8	110	-0.04	4.58
7 t	Cumene	3.771	3.333	11.6	105	-0.04	3.35
8 S	Phenol-d5	1.901	1.701	10.5	102	-0.04	3.85
9 t	Phenol	2.133	1.876	12.0	105	-0.04	3.86
10 t	Aniline	2.605	1.677	35.6#	82	-0.04	3.86
11 t	bis(2-Chloroethyl)ether	1.577	1.321	16.2	103	-0.04	3.93
12 t	2-Chlorophenol	1.669	1.475	11.6	107	-0.04	4.01
13 t	Decane	1.224	1.002	18.1	103	-0.04	4.07
14 t	1,3-Dichlorobenzene	1.878	1.631	13.2	106	-0.04	4.18
15 t	1,4-Dichlorobenzene	1.805	1.599	11.4	106	-0.04	4.27
16 t	Benzyl alcohol	1.043	0.926	11.2	100	-0.04	4.44
17 t	1,2-Dichlorobenzene	1.768	1.456	17.6	105	-0.04	4.47
18 t	Acetophenone	2.105	1.828	13.2	105	-0.04	4.78
19 t	2-Methylphenol	1.299	1.138	12.4	106	-0.04	4.62
20 t	2,2'-oxybis(1-Chloropropa	0.476	0.402	15.5	103	-0.04	4.61
21 t	3&4-Methylphenol	1.369	1.293	5.6	112	-0.04	4.83
----- True Calc. % Drift -----							
22	n-Nitroso-di-n-propylamin	50.000	55.843	-11.7	113	-0.04	4.79
----- AvgRF CCRF % Dev -----							
23 t	Hexachloroethane	0.557	0.539	3.2	114	-0.04	4.91
24 I	Naphthalene-d8	1.000	1.000	0.0	109	-0.05	6.00
25 S	Nitrobenzene-d5	0.402	0.382	5.0	107	-0.04	4.98
26 t	Nitrobenzene	0.440	0.407	7.5	107	-0.04	5.01
27 t	Quinoline	0.806	0.739	8.3	105	-0.05	6.53
28 t	Isophorone	0.770	0.695	9.7	104	-0.05	5.34
29 t	2-Nitrophenol	0.208	0.229	-10.1	110	-0.05	5.45
30 t	2,4-Dimethylphenol	0.350	0.361	-3.1	107	-0.04	5.57
31 t	Benzoic acid	0.268	0.198	26.1#	78	-0.06	5.78
32 t	bis(2-Chloroethoxy)methan	0.495	0.420	15.2	102	-0.05	5.68
33 t	2,4-Dichlorophenol	0.329	0.334	-1.5	112	-0.04	5.82
34	2,6-Dichlorophenol	0.322	0.302	6.2	107	-0.05	6.15
35	1,3,5-Trichlorobenzene	0.391	0.334	14.6	108	-0.04	5.47
36 t	1,2,4-Trichlorobenzene	0.394	0.342	13.2	109	-0.05	5.92
37	1,2,3-Trichlorobenzene	0.351	0.289	17.7	107	-0.04	6.25

Continuing Calibration Summary

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Job Number: JB75844

Sample: EP3796-CC3771

Account: LANGAN Langan Engineering & Environmental

Lab FileID: P88854.D

Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

38 t	Naphthalene	1.296	1.075	17.1	103	-0.04	6.03
39 t	4-Chloroaniline	0.498	0.429	13.9	98	-0.05	6.14
40 t	2,3-Dichloroaniline	0.402	0.372	7.5	109	-0.05	7.53
41 t	Caprolactam	0.137	0.140	-2.2	105	-0.04	6.68
42 t	Hexachlorobutadiene	0.189	0.171	9.5	115	-0.05	6.24
43 t	4-Chloro-3-methylphenol	0.339	0.349	-2.9	109	-0.04	6.96
44 t	2-Methylnaphthalene	0.780	0.649	16.8	103	-0.04	7.09
45 t	1-Methylnaphthalene	0.832	0.685	17.7	102	-0.05	7.23
46 t	Dimethylnaphthalene	0.680	0.602	11.5	106	-0.05	8.07
47 I	Acenaphthene-d10	1.000	1.000	0.0	108	-0.05	8.70
48 t	Hexachlorocyclopentadiene	0.297	0.312	-5.1	108	-0.05	7.35
49 t	2,4,6-Trichlorophenol	0.399	0.409	-2.5	113	-0.05	7.56
50 t	2,4,5-Trichlorophenol	0.389	0.413	-6.2	113	-0.04	7.64
51 S	2-Fluorobiphenyl	1.387	1.295	6.6	108	-0.05	7.68
52 t	2-Chloronaphthalene	1.319	1.125	14.7	105	-0.05	7.83
----- True		Calc.	% Drift	-----			
53 t	Biphenyl	50.000	49.122	1.8	106	-0.05	7.83
----- AvgRF		CCRF	% Dev	-----			
54 t	2-Nitroaniline	0.322	0.377	-17.1	113	-0.05	8.03
55 t	Dimethylphthalate	1.505	1.384	8.0	108	-0.05	8.36
56 t	Acenaphthylene	2.279	2.006	12.0	104	-0.05	8.47
57 t	2,6-Dinitrotoluene	0.289	0.320	-10.7	110	-0.05	8.43
58 t	3-Nitroaniline	0.370	0.397	-7.3	102	-0.05	8.69
59 t	Acenaphthene	1.419	1.226	13.6	103	-0.05	8.76
60 t	2,4-Dinitrophenol	0.159	0.184	-15.7	121	-0.04	8.86
61 t	4-Nitrophenol	0.188	0.208	-10.6	123	-0.04	9.08
62 t	Dibenzofuran	1.946	1.714	11.9	111	-0.05	9.04
63 t	2,4-Dinitrotoluene	0.381	0.421	-10.5	114	-0.05	9.06
64	2,3,4,6-Tetrachlorophenol	0.313	0.353	-12.8	115	-0.05	9.27
65 t	Diethylphthalate	1.481	1.426	3.7	110	-0.05	9.49
66 t	Fluorene	1.555	1.409	9.4	108	-0.05	9.58
67 t	4-Chlorophenyl-phenylether	0.658	0.591	10.2	108	-0.05	9.62
68 t	4-Nitroaniline	0.354	0.384	-8.5	106	-0.05	9.67
69 I	Phenanthrene-d10	1.000	1.000	0.0	111	-0.05	11.06
70 t	4,6-Dinitro-2-methylpheno	0.152	0.172	-13.2	123	-0.05	9.71
71 t	n-Nitrosodiphenylamine	0.694	0.652	6.1	109	-0.05	9.82
72 t	1,2-Diphenylhydrazine	1.034	0.912	11.8	103	-0.05	9.87
73 S	2,4,6-Tribromophenol	0.103	0.118	-14.6	114	-0.05	9.97
74 t	4-Bromophenyl-phenylether	0.251	0.247	1.6	112	-0.05	10.39
75 t	Hexachlorobenzene	0.292	0.274	6.2	113	-0.05	10.46
76 t	Pentachlorophenol	0.149	0.165	-10.7	110	-0.05	10.81
77 t	Phenanthrene	1.409	1.255	10.9	107	-0.05	11.10
78 t	Anthracene	1.401	1.291	7.9	108	-0.05	11.18
79 t	Carbazole	1.305	1.232	5.6	108	-0.05	11.48
80 t	Di-n-butylphthalate	1.571	1.624	-3.4	109	-0.05	12.16
81 t	Fluoranthene	1.508	1.462	3.1	110	-0.06	13.10
82 t	Octadecane	0.460	0.438	4.8	105	-0.05	11.05
83 I	Chrysene-d12	1.000	1.000	0.0	113	-0.06	15.74
84 t	Pyrene	1.666	1.546	7.2	110	-0.06	13.49
85 S	Terphenyl-d14	0.924	0.896	3.0	111	-0.06	13.86
86 t	Butylbenzylphthalate	0.683	0.781	-14.3	112	-0.06	14.84
87	Butyl stearate	0.332	0.359	-8.1	105	-0.06	15.07
88 t	Benzo[a]anthracene	1.396	1.336	4.3	108	-0.06	15.73
89 t	3,3'-Dichlorobenzidine	0.383	0.422	-10.2	108	-0.06	15.76
90 t	Chrysene	1.328	1.213	8.7	109	-0.06	15.80

8.7.24

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Continuing Calibration Summary

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Job Number: JB75844
Account: LANGAN Langan Engineering & Environmental
Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

Sample: EP3796-CC3771
Lab FileID: P88854.D

91 t	bis(2-Ethylhexyl)phthalat	0.898	1.035	-15.3	113	-0.06	16.01
92 I	Perylene-d12	1.000	1.000	0.0	108	-0.06	18.29
		----- True	Calc.	% Drift	-----		
93 t	Di-n-octylphthalate	50.000	53.738	-7.5	115	-0.06	17.21
		----- AvgRF	CCRF	% Dev	-----		
94 t	Benzo[b]fluoranthene	1.466	1.395	4.8	109	-0.07	17.66
95 t	Benzo[k]fluoranthene	1.523	1.285	15.6	109	-0.06	17.72
96 t	Benzo[a]pyrene	1.285	1.283	0.2	108	-0.06	18.20
97 t	Indeno[1,2,3-cd]pyrene	1.207	1.294	-7.2	110	-0.07	19.92
98 t	Dibenz(a,h)acridine	0.997	1.095	-9.8	111	-0.06	19.61
99 t	Dibenz[a,h]anthracene	1.289	1.296	-0.5	111	-0.07	19.96
		----- True	Calc.	% Drift	-----		
100 t	7,12-Dimethylbenz(a)anthr	50.000	51.074	-2.1	103	-0.06	17.68
		----- AvgRF	CCRF	% Dev	-----		
101 t	Benzo[g,h,i]perylene	1.354	1.342	0.9	112	-0.07	20.28

(#) = Out of Range
 P88634.D MP3770.M

SPCC's out = 0 CCC's out = 0
 Wed Sep 10 16:40:34 2014

8.7.24
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Continuing Calibration Summary

Page 1 of 1

Job Number: JB75844

Account: LANGAN Langan Engineering & Environmental

Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

Sample: EP3796-CC3770

Lab FileID: P88855.D

Evaluate Continuing Calibration Report

Data File : C:\MSDCHEM\1\DATA\EP3796\P88855.D

Vial: 3

Acq On : 9 Sep 2014 5:04 pm

Operator: ashleyd

Sample : cc3770-25

Inst : MSP

Misc : op76634,ep3796

Multiplr: 1.00

MS Integration Params: rteint.p

Method : C:\MSDCHEM\1\METHODS\MP3770.M (RTE Integrator)

Title : Semi Volatile Extractables by GC/MS

Last Update : Sat Sep 06 12:29:44 2014

Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 48% Max. R.T. Dev 0.50min

Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
102 I	1,4-Dichlorobenzene-d4b	1.000	1.000	0.0	67	-0.04	4.25
103	Benzaldehyde	1.276	1.195	6.3	68	-0.11	3.73
104 I	Phenanthrene-d10b	1.000	1.000	0.0	70	0.05	11.05
105	Atrazine	0.204	0.236	-15.7	80	-0.14	10.72
106 I	Chrysene-d12b	1.000	1.000	0.0	72	-0.07	15.73
107	Benzidine	0.658	0.707	-7.4	68	-0.15	13.40
108 I	Naphthalene-d8b	1.000	1.000	0.0	68	-0.05	5.99
109	Hydroquinone	0.265	0.380	-43.4#	101	-0.09	6.73
110 I	Acenaphthene-d10b	1.000	1.000	0.0	69	-0.05	8.70
111	1,2,4,5-Tetrachlorobenzen	0.637	0.643	-0.9	76	-0.13	7.35

(#) = Out of Range

P88487.D MP3770.M

SPCC's out = 0 CCC's out = 0

Wed Sep 10 16:40:51 2014

8.7.25

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Initial Calibration Summary

Page 1 of 3

Job Number: JB75844
Account: LANGAN Langan Engineering & Environmental
Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY
Sample: EZ4711-ICC4711
Lab FileID: Z94832.D

Response Factor Report MSZ

Method : C:\msdchem\1\METHODS\MZ4711.M (RTE Integrator)
 Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
 Last Update : Wed Aug 27 15:32:48 2014
 Response via : Initial Calibration

Calibration Files

100 =z94845.D 80 =z94846.D 50 =z94847.D 25 =z94848.D
 10 =z94849.D 5 =z94850.D 2 =z94851.D 1 =z94852.D

Compound	100	80	50	25	10	5	2	1	Avg %RSD

1) I 1,4-Dichlorobenzene-d	-----ISTD-----								
2) 1,4-Dioxane	0.435	0.442	0.421	0.437	0.497	0.425	0.536	0.530	0.465 10.25
3) Pyridine	1.163	1.186	1.100	1.130	1.233	1.114	1.173	1.176	1.159 3.72
4) N-Nitrosodim	0.705	0.724	0.663	0.691	0.748	0.604	0.759	0.776	0.709 7.94
5) 2-Fluorophen	1.231	1.244	1.166	1.200	1.277	1.175	1.328	1.356	1.247 5.55
6) Indene	2.212	2.239	2.087	2.131	2.333	2.052	2.583	2.563	2.275 8.98
7) Cumene	3.324	3.386	3.281	3.307	3.625	3.282	3.940	4.059	3.526 8.92
8) Phenol-d5	1.521	1.532	1.445	1.475	1.632	1.345	1.798	1.770	1.565 10.09
9) Phenol	1.913	1.919	1.757	1.788	1.964	1.758	2.125	2.203	1.928 8.63
10) Aniline		1.562	1.765	1.919	1.987	1.842	2.466	2.324	1.981 15.95
11) bis(2-Chloro	1.197	1.235	1.142	1.193	1.291	1.168	1.415	1.457	1.262 9.25
12) 2-Chlorophen	1.503	1.511	1.454	1.500	1.573	1.478	1.760	1.788	1.571 8.28
13) Decane	2.226	2.373	2.432	2.502	2.720	2.536	3.121	3.014	2.615 11.99
14) 1,3-Dichloro	1.684	1.734	1.702	1.709	1.800	1.756	2.260	2.154	1.850 12.17
15) 1,4-Dichloro	1.691	1.736	1.694	1.706	1.851	1.771	2.238	2.097	1.848 11.22
16) Benzyl alcoh	0.913	0.933	0.885	0.887	0.918	0.818	1.143	1.063	0.945 11.18
17) 1,2-Dichloro	1.614	1.624	1.576	1.642	1.736	1.588	1.931	1.991	1.713 9.42
18) Acetophenone	1.923	1.969	1.972	1.974	2.187	1.938	2.422	2.343	2.091 9.51
19) 2-Methylphen	1.184	1.204	1.159	1.153	1.254	1.075	1.376	1.391	1.225 9.03
20) 2,2'-oxybis(	0.427	0.447	0.442	0.452	0.452	0.446	0.579	0.614	0.482 14.83
21) 3&4-Methylph	1.268	1.304	1.229	1.235	1.325	1.225	1.526	1.428	1.317 8.20
22) n-Nitroso-di	0.968	1.043	1.060	1.071	1.146	1.082	1.255	1.274	1.112 9.52
23) Hexachloroet	0.676	0.707	0.720	0.721	0.770	0.712	0.879	0.884	0.759 10.57
24) I Naphthalene-d8	-----ISTD-----								
25) Nitrobenzene	0.407	0.419	0.428	0.404	0.436	0.392	0.507	0.521	0.439 10.99
26) Nitrobenzene	0.432	0.447	0.434	0.434	0.465	0.410	0.533	0.559	0.464 11.46
27) Quinoline	0.686	0.714	0.690	0.692	0.723	0.643	0.805	0.855	0.726 9.60
28) Isophorone	0.690	0.718	0.723	0.718	0.755	0.701	0.804	0.863	0.747 7.90
29) 2-Nitropheno	0.218	0.228	0.225	0.215	0.230	0.194	0.257	0.258	0.228 9.39
30) 2,4-Dimethyl	0.409	0.424	0.423	0.398	0.378	0.352	0.393	0.374	0.394 6.38
31) Benzoic Acid	0.308	0.318	0.315	0.247	0.271	0.223	0.306	0.241	0.279 13.62
32) bis(2-Chloro	0.395	0.404	0.393	0.387	0.412	0.376	0.472	0.504	0.418 10.88
33) 2,4-Dichloro	0.343	0.355	0.359	0.361	0.371	0.337	0.394	0.419	0.367 7.40
34) 2,6-Dichloro	0.338	0.348	0.350	0.343	0.365	0.324	0.411	0.415	0.362 9.29
35) 1,3,5-Trichl	0.375	0.395	0.397	0.392	0.419	0.399	0.485	0.487	0.419 10.31
36) 1,2,4-Trichl	0.387	0.398	0.397	0.395	0.416	0.376	0.472	0.484	0.416 9.70
37) 1,2,3-Trichl	0.356	0.373	0.383	0.368	0.388	0.378	0.455	0.470	0.397 10.64
38) Naphthalene	1.180	1.196	1.169	1.124	1.192	1.151	1.376	1.385	1.222 8.26
39) 4-Chloroanil	0.421	0.440	0.468	0.471	0.503	0.460	0.592	0.563	0.490 12.19
40) 2,3-Dichloro	0.382	0.398	0.401	0.388	0.420	0.377	0.454	0.507	0.416 10.69
41) Caprolactam	0.250	0.175	0.260	0.242	0.271	0.244	0.303	0.289	0.254 15.19
42) Hexachlorobu	0.265	0.280	0.295	0.299	0.315	0.292	0.355	0.345	0.306 10.13
43) 4-Chloro-3-m	0.369	0.385	0.389	0.374	0.412	0.361	0.439	0.435	0.395 7.57
44) 2-Methylnaph	0.653	0.674	0.661	0.643	0.688	0.649	0.766	0.829	0.695 9.61
45) 1-Methylnaph	0.600	0.618	0.614	0.607	0.642	0.562	0.731	0.790	0.645 11.77

8.7.26

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Initial Calibration Summary

Page 2 of 3

Job Number: JB75844

Sample: EZ4711-ICC4711

Account: LANGAN Langan Engineering & Environmental

Lab FileID: Z94832.D

Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

46)	Dimethylnaph	0.681	0.710	0.708	0.682	0.722	0.662	0.814	0.851	0.729	9.27
47)	I Acenaphthene-d10	-----ISTD-----									
48)	Hexachlorocy	0.390	0.397	0.361	0.268	0.294	0.158	0.157	0.121	0.268	41.59
	----- Quadratic regression -----	Coefficient = 0.9973									
	Response Ratio =	-0.03358 + 0.33498 *A + 0.01390 *A^2									
49)	2,4,6-Trichl	0.468	0.489	0.493	0.470	0.505	0.455	0.559	0.570	0.501	8.42
50)	2,4,5-Trichl	0.472	0.474	0.480	0.462	0.491	0.455	0.557	0.579	0.496	9.27
51)	2-Fluorobiph	1.372	1.392	1.377	1.375	1.491	1.324	1.635	1.782	1.469	10.91
52)	2-Chloronaph	1.262	1.276	1.266	1.250	1.351	1.253	1.474	1.506	1.330	7.83
53)	Biphenyl	1.460	1.494	1.423	1.407	1.520	1.406	1.636	1.829	1.522	9.55
54)	2-Nitroanili	0.465	0.472	0.472	0.453	0.481	0.422	0.540	0.550	0.482	8.94
55)	Dimethylphth	1.430	1.436	1.448	1.404	1.568	1.387	1.712	1.883	1.534	11.58
56)	Acenaphthyle	2.016	2.009	1.963	1.943	2.062	1.868	2.296	2.431	2.073	9.23
57)	2,6-Dinitrot	0.320	0.333	0.324	0.314	0.368	0.326	0.392	0.389	0.346	9.29
58)	3-Nitroanili	0.341	0.353	0.331	0.334	0.367	0.320	0.376	0.400	0.353	7.60
59)	Acenaphthene	1.234	1.236	1.215	1.195	1.302	1.194	1.450	1.557	1.298	10.36
60)	2,4-Dinitrop	0.226	0.231	0.200	0.155	0.172	0.196	0.175	0.184	0.192	13.72
61)	4-Nitropheno	0.227	0.230	0.259	0.241	0.257	0.235	0.200	0.247	0.237	8.01
62)	Dibenzofuran	1.691	1.731	1.695	1.648	1.803	1.672	2.106	2.140	1.811	10.97
63)	2,4-Dinitrot	0.454	0.464	0.459	0.441	0.475	0.434	0.522	0.557	0.476	8.90
64)	2,3,4,6-Tetr	0.438	0.453	0.457	0.422	0.459	0.397	0.532	0.558	0.465	11.67
65)	Diethylphtha	1.443	1.479	1.494	1.447	1.600	1.418	1.751	1.925	1.570	11.50
66)	Fluorene	1.420	1.433	1.427	1.383	1.478	1.343	1.679	1.849	1.501	11.51
67)	4-Chlorophen	0.720	0.734	0.735	0.738	0.778	0.722	0.836	0.986	0.781	11.70
68)	4-Nitroanili	0.326	0.340	0.338	0.323	0.348	0.316	0.373	0.347	0.339	5.38
69)	I Phenanthrene-d10	-----ISTD-----									
70)	4,6-Dinitro-	0.177	0.179	0.166	0.151	0.163	0.116	0.124	0.121	0.150	17.27
71)	n-Nitrosodip	0.571	0.592	0.568	0.556	0.607	0.550	0.670	0.713	0.603	9.69
72)	1,2-Diphenyl	0.766	0.785	0.760	0.748	0.815	0.721	0.883	0.943	0.803	9.35
73)	2,4,6-Tribo	0.153	0.160	0.161	0.149	0.164	0.145	0.174	0.186	0.162	8.38
74)	4-Bromopheny	0.253	0.262	0.262	0.260	0.277	0.254	0.329	0.328	0.278	11.49
75)	Hexachlorobe	0.299	0.309	0.305	0.307	0.325	0.304	0.361	0.422	0.329	12.93
76)	Pentachlorop	0.181	0.186	0.187	0.161	0.169	0.139	0.167	0.159	0.169	9.49
77)	Phenanthrene	1.169	1.201	1.170	1.121	1.232	1.132	1.396	1.489	1.239	10.72
78)	Anthracene	1.180	1.208	1.181	1.146	1.254	1.149	1.430	1.460	1.251	9.96
79)	Carbazole	0.993	1.023	0.984	0.962	1.032	0.959	1.181	1.222	1.044	9.65
80)	Di-n-butylph	1.397	1.422	1.401	1.317	1.457	1.321	1.574	1.676	1.445	8.55
81)	Fluoranthene	1.376	1.418	1.383	1.336	1.454	1.334	1.643	1.680	1.453	9.30
82)	Octadecane	0.650	0.669	0.650	0.621	0.695	0.612	0.749	0.823	0.684	10.42
83)	I Chrysene-d12	-----ISTD-----									
84)	Pyrene	1.250	1.279	1.229	1.213	1.339	1.237	1.452	1.586	1.323	9.97
85)	Butyl steara	0.426	0.432	0.410	0.393	0.452	0.394	0.479	0.493	0.435	8.56
86)	Terphenyl-d1	0.822	0.840	0.834	0.805	0.892	0.816	0.965	1.028	0.875	9.28
87)	Butylbenzylp	0.544	0.550	0.530	0.512	0.568	0.508	0.614	0.621	0.556	7.69
88)	Benzo[a]anth	1.219	1.260	1.241	1.204	1.354	1.226	1.495	1.704	1.338	13.24
89)	3,3'-Dichlor	0.426	0.446	0.448	0.439	0.476	0.412	0.502	0.531	0.460	8.75
90)	Chrysene	1.156	1.204	1.163	1.141	1.249	1.167	1.381	1.468	1.241	9.70
91)	bis(2-Ethylh	0.745	0.762	0.738	0.705	0.787	0.696	0.802	0.873	0.763	7.50
92)	I Perylene-d12	-----ISTD-----									
93)	Di-n-octylph	1.486	1.557	1.320	1.289	1.537	1.297	1.643	1.596	1.466	9.74
94)	Benzo[b]fluo	1.453	1.558	1.351	1.305	1.554	1.412	1.668	1.697	1.500	9.54
95)	Benzo[k]fluo	1.343	1.393	1.293	1.258	1.529	1.342	1.626	1.741	1.441	11.99
96)	Benzo[a]pyre	1.258	1.304	1.181	1.154	1.381	1.210	1.542	1.564	1.324	11.96
97)	Indeno[1,2,3	1.403	1.472	1.209	1.167	1.379	1.161	1.388	1.420	1.325	9.42
98)	Dibenz(a,h)a	1.064	1.097	0.975	0.933	1.113	0.949	1.180	1.197	1.063	9.61

8.7.26

8

Initial Calibration Summary

Page 3 of 3

Job Number: JB75844

Sample: EZ4711-ICC4711

Account: LANGAN Langan Engineering & Environmental

Lab FileID: Z94832.D

Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

99)	Dibenz[a,h]a	1.319	1.356	1.210	1.166	1.363	1.175	1.309	1.513	1.302	8.92
100)	7,12-Dimethy	0.609	0.645	0.585	0.560	0.478	0.326	0.277	0.266	0.468	33.36
----- Quadratic regression -----											
Response Ratio = -0.02704 + 0.62120 *A + 0.00418 *A^2											
Coefficient = 0.9978											
101)	Benzo[g,h,i]	1.276	1.320	1.173	1.173	1.379	1.186	1.487	1.548	1.318	10.97
102)	1,4-Dichlorobenzene-d	-----ISTD-----									
103)	Benzaldehyde	0.675	0.737	0.816	0.838	0.933	0.924	0.919	0.928	0.846	11.63
104)	Phenanthrene-d10a	-----ISTD-----									
105)	Atrazine	0.120	0.121	0.120	0.116	0.112	0.102	0.087	0.119	0.112	10.69
106)	o-terphenyl	0.657	0.662	0.669	0.671	0.654	0.615	0.682	0.694	0.663	3.56
107)	Chrysene-d12a	-----ISTD-----									
108)	Benzidine	0.398	0.419	0.462	0.515	0.574	0.550	0.546	0.463	0.491	13.18
109)	1-chloroocta	0.385	0.378	0.374	0.358	0.364	0.320	0.358	0.410	0.368	7.07
110)	Acenaphthene-d10a	-----ISTD-----									
111)	1,2,4,5-Tetr	0.662	0.655	0.656	0.646	0.634	0.619	0.714	0.717	0.663	5.31
112)	I Naphthalene-d8a	-----ISTD-----									
113)	Hydroquinone	0.323	0.328	0.318	0.298	0.276	0.222	0.340	0.315	0.302	12.59

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

MZ4711.M

Fri Aug 29 16:49:10 2014

RTE

8.7.26

8

Initial Calibration Verification

Page 1 of 1

Job Number: JB75844

Sample: EZ4712-ICV4711

Account: LANGAN Langan Engineering & Environmental

Lab FileID: Z94854.D

Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\ez4711\z94854.D Vial: 23
 Acq On : 26 Aug 2014 10:46 pm Operator: ashleyv
 Sample : icv4711-50 Inst : MSZ
 Misc : op76603,ez4712 Multiplr: 1.00
 MS Integration Params: RTEINT.P

Method : C:\MSDCHEM\1\METHODS\MZ4711.M (RTE Integrator)
 Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
 Last Update : Wed Aug 27 12:28:00 2014
 Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 30% Max. Rel. Area : 202%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1 I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	152	0.00	3.51
9 t	Phenol	1.928	1.576	18.3	136	0.00	3.18
12 t	2-Chlorophenol	1.571	1.426	9.2	149	0.00	3.31
19 t	2-Methylphenol	1.225	1.208	1.4	158	0.00	3.76
21 t	3&4-Methylphenol	1.317	1.250	5.1	154	0.00	3.92
24 I	Naphthalene-d8	1.000	1.000	0.0	153	0.00	4.84
29 t	2-Nitrophenol	0.228	0.207	9.2	140	0.00	4.42
30 t	2,4-Dimethylphenol	0.394	0.421	-6.9	152	0.00	4.49
31	Benzoic Acid	0.279	0.289	-3.6	140	0.07	4.65
33 t	2,4-Dichlorophenol	0.367	0.341	7.1	145	0.00	4.70
34	2,6-Dichlorophenol	0.362	0.340	6.1	148	0.00	4.94
43 t	4-Chloro-3-methylphenol	0.395	0.342	13.4	134	0.00	5.53
47 I	Acenaphthene-d10	1.000	1.000	0.0	143	0.00	6.89
49 t	2,4,6-Trichlorophenol	0.501	0.473	5.6	138	0.00	6.01
50 t	2,4,5-Trichlorophenol	0.496	0.483	2.6	144	0.00	6.06
60 t	2,4-Dinitrophenol	0.192	0.154	19.8	110	0.00	7.02
61 t	4-Nitrophenol	0.237	0.219	7.6	121	-0.01	7.13
64	2,3,4,6-Tetrachlorophenol	0.465	0.389	16.3	122	0.00	7.31
69 I	Phenanthrene-d10	1.000	1.000	0.0	138	0.00	8.69
70 t	4,6-Dinitro-2-methylpheno	0.150	0.136	9.3	113	0.00	7.66
76 t	Pentachlorophenol	0.169	0.174	-3.0	128	0.00	8.47

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

z94847.D MZ4711.M

Wed Aug 27 14:29:56 2014 RTE

8.7.27

8

Initial Calibration Verification

Job Number: JB75844

Sample: EZ4712-ICV4711

Account: LANGAN Langan Engineering & Environmental

Lab FileID: Z94855.D

Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\ez4711\z94855.D

Vial: 24

Acq On : 26 Aug 2014 11:12 pm

Operator: ashleyv

Sample : icv4711-50

Inst : MSZ

Misc : op76603,ez4712

Multiplr: 1.00

MS Integration Params: RTEINT.P

Method : C:\msdchem\1\METHODS\MZ4711.M (RTE Integrator)

Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um

Last Update : Wed Aug 27 15:32:48 2014

Response via : Multiple Level Calibration

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

Max. RRF Dev : 30% Max. Rel. Area : 202%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1 I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	153	0.00	3.51
4 t	N-Nitrosodimethylamine	0.709	0.658	7.2	151	0.01	1.65
11 t	bis(2-Chloroethyl)ether	1.262	1.206	4.4	161	0.00	3.25
14 t	1,3-Dichlorobenzene	1.850	1.647	11.0	148	0.00	3.45
15 t	1,4-Dichlorobenzene	1.848	1.633	11.6	147	0.00	3.52
17 t	1,2-Dichlorobenzene	1.713	1.540	10.1	149	0.00	3.67
20 t	2,2'-oxybis(1-Chloropropa	0.482	0.431	10.6	149	0.00	3.77
22 t	n-Nitroso-di-n-propylamin	1.112	0.974	12.4	140	0.00	3.91
23 t	Hexachloroethane	0.759	0.680	10.4	144	0.00	4.01
24 I	Naphthalene-d8	1.000	1.000	0.0	151	0.00	4.84
26 t	Nitrobenzene	0.464	0.416	10.3	145	0.00	4.08
28 t	Isophorone	0.747	0.675	9.6	141	0.00	4.34
32 t	bis(2-Chloroethoxy)methan	0.418	0.397	5.0	153	0.00	4.59
36 t	1,2,4-Trichlorobenzene	0.416	0.389	6.5	148	0.00	4.78
38 t	Naphthalene	1.222	1.076	11.9	139	0.00	4.86
42 t	Hexachlorobutadiene	0.306	0.282	7.8	145	0.00	5.01
47 I	Acenaphthene-d10	1.000	1.000	0.0	143	0.00	6.89
52 t	2-Chloronaphthalene	1.330	1.205	9.4	136	0.00	6.24
55 t	Dimethylphthalate	1.534	1.367	10.9	135	0.00	6.61
56 t	Acenaphthylene	2.073	1.527	26.3	111	0.00	6.72
57 t	2,6-Dinitrotoluene	0.346	0.288	16.8	127	0.00	6.68
59 t	Acenaphthene	1.298	1.178	9.2	139	0.00	6.94
63 t	2,4-Dinitrotoluene	0.476	0.394	17.2	123	0.00	7.17
65 t	Diethylphthalate	1.570	1.385	11.8	133	0.00	7.47
66 t	Fluorene	1.501	1.319	12.1	132	0.00	7.56
67 t	4-Chlorophenyl-phenylethe	0.781	0.700	10.4	136	0.00	7.58
69 I	Phenanthrene-d10	1.000	1.000	0.0	134	0.00	8.69
71 t	n-Nitrosodiphenylamine	0.603	0.538	10.8	127	0.00	7.73
72 t	1,2-Diphenylhydrazine	0.803	0.759	5.5	134	0.00	7.76
74 t	4-Bromophenyl-phenylether	0.278	0.258	7.2	133	0.00	8.16
75 t	Hexachlorobenzene	0.329	0.288	12.5	127	0.00	8.22
77 t	Phenanthrene	1.239	1.087	12.3	125	0.00	8.72
78 t	Anthracene	1.251	1.097	12.3	125	0.00	8.78
80 t	Di-n-butylphthalate	1.445	1.315	9.0	126	0.00	9.52
81 t	Fluoranthene	1.453	1.261	13.2	122	0.00	10.30
83 I	Chrysene-d12	1.000	1.000	0.0	120	0.00	12.41
84 t	Pyrene	1.323	1.208	8.7	118	0.00	10.61
87 t	Butylbenzylphthalate	0.556	0.529	4.9	120	0.00	11.66

Initial Calibration Verification

Page 2 of 2

Job Number: JB75844

Sample: EZ4712-ICV4711

Account: LANGAN Langan Engineering & Environmental

Lab FileID: Z94855.D

Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

88 t	Benzo[a]anthracene	1.338	1.157	13.5	112	0.00	12.40
90 t	Chrysene	1.241	1.141	8.1	118	0.00	12.45
91 t	bis(2-Ethylhexyl)phthalat	0.763	0.722	5.4	117	0.00	12.58
92 I	Perylene-d12	1.000	1.000	0.0	107	0.00	14.46
93 t	Di-n-octylphthalate	1.466	1.403	4.3	114	0.00	13.54
94 t	Benzo[b]fluoranthene	1.500	1.247	16.9	99	0.00	13.96
95 t	Benzo[k]fluoranthene	1.441	1.291	10.4	107	0.00	13.99
96 t	Benzo[a]pyrene	1.324	1.171	11.6	106	0.00	14.39
97 t	Indeno[1,2,3-cd]pyrene	1.325	1.090	17.7	97	0.00	15.89
99 t	Dibenz[a,h]anthracene	1.302	1.148	11.8	102	0.00	15.92
----- AvgRF CCRF % Dev -----							
101 t	Benzo[g,h,i]perylene	1.318	1.181	10.4	108	0.01	16.28
107	Chrysene-d12a	1.000	1.000	0.0	109	0.00	12.41
110	Acenaphthene-d10a	1.000	1.000	0.0	123	0.00	6.89
111	1,2,4,5-Tetrachlorobenzen	0.663	0.694	-4.7	130	0.00	5.86

(#) = Out of Range
z94847.D MZ4711.M

SPCC's out = 0 CCC's out = 0
Fri Aug 29 16:51:24 2014 RTE

8.7.28

8

Initial Calibration Verification

Page 1 of 1

Job Number: JB75844

Sample: EZ4712-ICV4711

Account: LANGAN Langan Engineering & Environmental

Lab FileID: Z94856.D

Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\ez4711\z94856.D

Vial: 25

Acq On : 26 Aug 2014 11:39 pm

Operator: ashleyv

Sample : icv4711-50

Inst : MSZ

Misc : op76603,ez4712

Multiplr: 1.00

MS Integration Params: RTEINT.P

Method : C:\msdchem\1\METHODS\MZ4711.M (RTE Integrator)

Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um

Last Update : Wed Aug 27 15:32:48 2014

Response via : Multiple Level Calibration

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

Max. RRF Dev : 30% Max. Rel. Area : 202%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1 I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	168	0.00	3.51
2	1,4-Dioxane	0.465	0.463	0.4	184	0.01	1.51
6 t	Indene	2.275	2.351	-3.3	189	0.00	3.76
7 t	Cumene	3.526	3.543	-0.5	181	0.00	2.80
13 t	Decane	2.615	2.544	2.7	176	0.00	3.35
18 t	Acetophenone	2.091	2.009	3.9	171	0.00	3.91
24 I	Naphthalene-d8	1.000	1.000	0.0	170	0.00	4.84
26 t	Nitrobenzene	0.464	0.471	-1.5	184	-0.18	3.91
27 t	Quinoline	0.726	0.721	0.7	177	0.00	5.24
40 t	2,3-Dichloroaniline	0.416	0.360	13.5	152	0.00	6.01
41 t	Caprolactam	0.254	0.242	4.7	158	0.02	5.33
45 t	1-Methylnaphthalene	0.645	0.627	2.8	174	0.00	5.78
46 t	Dimethylnaphthalene	0.729	0.705	3.3	169	0.00	6.41
47 I	Acenaphthene-d10	1.000	1.000	0.0	164	0.00	6.89
	----- True Calc.			% Drift	-----		
48 t	Hexachlorocyclopentadiene	100.000	93.064	6.9	136	0.00	5.85
	----- AvgRF CCRF			% Dev	-----		
53 t	Biphenyl	1.522	1.490	2.1	172	0.00	6.22
69 I	Phenanthrene-d10	1.000	1.000	0.0	152	0.00	8.69
82 t	Octadecane	0.684	0.691	-1.0	162	0.00	8.64
92 I	Perylene-d12	1.000	1.000	0.0	112	0.00	14.46
	----- True Calc.			% Drift	-----		
100 t	7,12-Dimethylbenz(a)anthr	50.000	34.649	30.7#	79	0.00	13.94
102	1,4-Dichlorobenzene-d4a	1.000	1.000	0.0	146	0.00	3.51
103	Benzaldehyde	0.846	1.140	-34.8#	204#	0.00	3.10
104	Phenanthrene-d10a	1.000	1.000	0.0	134	0.00	8.69
105	Atrazine	0.112	0.127	-13.4	142	0.00	8.40

(#) = Out of Range
 Z94847.D MZ4711.M

SPCC's out = 0 CCC's out = 0
 Fri Aug 29 16:51:26 2014 RTE

8.7.29

8

Initial Calibration Verification

Page 1 of 1

Job Number: JB75844

Sample: EZ4712-ICV4711

Account: LANGAN Langan Engineering & Environmental

Lab FileID: Z94858.D

Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\ez4711\z94858.D Vial: 27
Acq On : 27 Aug 2014 12:30 am Operator: ashleyv
Sample : icv4711-50 Inst : MSZ
Misc : op76603,ez4712 Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\msdchem\1\METHODS\MZ4711.M (RTE Integrator)
Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
Last Update : Wed Aug 27 15:32:48 2014
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 202%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
83 I	Chrysene-d12	1.000	1.000	0.0	193	0.00	12.41
89 t	3,3'-Dichlorobenzidine	0.460	0.438	4.8	188	0.00	12.41
107	Chrysene-d12a	1.000	1.000	0.0	175	0.00	12.41
108	Benzidine	0.491	0.739	-50.5#	279#	0.00	10.54

(#) = Out of Range
z94847.D MZ4711.M

SPCC's out = 0 CCC's out = 0
Fri Aug 29 16:51:28 2014 RTE

8.7.30

8

Initial Calibration Verification

Page 1 of 1

Job Number: JB75844

Sample: EZ4712-ICV4711

Account: LANGAN Langan Engineering & Environmental

Lab FileID: Z94859.D

Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\ez4711\z94859.D Vial: 28
Acq On : 27 Aug 2014 12:56 am Operator: ashleyv
Sample : icv4712-50 Inst : MSZ
Misc : op76603,ez4712 Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\MSDCHEM\1\METHODS\MZ4711.M (RTE Integrator)
Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
Last Update : Wed Aug 27 12:28:00 2014
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 202%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
112 I	Naphthalene-d8a	1.000	1.000	0.0	174	0.00	4.84
113	Hydroquinone	0.302	0.414	-37.1#	227#	0.00	5.38

(#) = Out of Range
z94847.D MZ4711.M

SPCC's out = 0 CCC's out = 0
Wed Aug 27 14:30:12 2014 RTE

8.7.31

8

Initial Calibration Verification

Page 1 of 1

Job Number: JB75844

Sample: EZ4712-ICV4711

Account: LANGAN Langan Engineering & Environmental

Lab FileID: Z94860.D

Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\ez4711\z94860.D

Vial: 29

Acq On : 27 Aug 2014 1:21 am

Operator: ashleyv

Sample : icv4711-50

Inst : MSZ

Misc : op76603,ez4712

Multiplr: 1.00

MS Integration Params: RTEINT.P

Method : C:\MSDCHEM\1\METHODS\MZ4711.M (RTE Integrator)

Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um

Last Update : Wed Aug 27 12:28:00 2014

Response via : Multiple Level Calibration

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

Max. RRF Dev : 30% Max. Rel. Area : 202%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1 I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	135	0.00	3.51
3 t	Pyridine	1.159	1.266	-9.2	155	0.09	1.75
10 t	Aniline	1.981	1.908	3.7	146	0.01	3.21
16 t	Benzyl alcohol	0.945	0.895	5.3	137	0.00	3.64
24 I	Naphthalene-d8	1.000	1.000	0.0	147	0.00	4.84
39 t	4-Chloroaniline	0.490	0.403	17.8	127	0.00	4.94
44 t	2-Methylnaphthalene	0.695	0.603	13.2	134	0.00	5.66
47 I	Acenaphthene-d10	1.000	1.000	0.0	147	0.00	6.89
54 t	2-Nitroaniline	0.482	0.394	18.3	123	0.00	6.38
58 t	3-Nitroaniline	0.353	0.274	22.4	122	0.00	6.88
62 t	Dibenzofuran	1.811	1.539	15.0	133	0.00	7.14
68 t	4-Nitroaniline	0.339	0.261	23.0	114	0.00	7.61
69 I	Phenanthrene-d10	1.000	1.000	0.0	141	0.00	8.69
79 t	Carbazole	1.044	0.923	11.6	132	0.00	9.01

(#) = Out of Range
 z94847.D MZ4711.M

SPCC's out = 0 CCC's out = 0
 Wed Aug 27 14:30:14 2014 RTE

8.7.32

8

Continuing Calibration Summary

Page 1 of 3

Job Number: JB75844

Sample: EZ4729-CC4711

Account: LANGAN Langan Engineering & Environmental

Lab FileID: Z95246.D

Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\ez4729\z95246.D

Vial: 2

Acq On : 8 Sep 2014 7:59 pm

Operator: saraw

Sample : cc4711-25

Inst : MSZ

Misc : op77770,ez4729

Multiplr: 1.00

MS Integration Params: RTEINT.P

Method : C:\MSDCHEM\1\METHODS\MZ4711.M (RTE Integrator)

Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um

Last Update : Fri Sep 05 13:27:02 2014

Response via : Multiple Level Calibration

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

Max. RRF Dev : 20% Max. Rel. Area : 202%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1 I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	98	-0.02	3.31
2	1,4-Dioxane	0.465	0.500	-7.5	112	-0.02	1.37
3 t	Pyridine	1.159	1.335	-15.2	115	-0.02	1.52
4 t	N-Nitrosodimethylamine	0.709	0.795	-12.1	112	-0.01	1.50
5 S	2-Fluorophenol	1.247	1.221	2.1	99	-0.02	2.26
6 t	Indene	2.275	2.155	5.3	99	-0.02	3.56
7 t	Cumene	3.526	3.412	3.2	101	-0.02	2.62
8 S	Phenol-d5	1.565	1.711	-9.3	113	-0.01	3.01
9 t	Phenol	1.928	2.003	-3.9	109	-0.02	3.02
10 t	Aniline	1.981	1.886	4.8	96	-0.02	3.01
11 t	bis(2-Chloroethyl)ether	1.262	1.322	-4.8	108	-0.02	3.07
12 t	2-Chlorophenol	1.571	1.401	10.8	91	-0.02	3.13
13 t	Decane	2.615	1.798	31.2#	70	-0.02	3.16
14 t	1,3-Dichlorobenzene	1.850	1.647	11.0	94	-0.02	3.26
15 t	1,4-Dichlorobenzene	1.848	1.650	10.7	94	-0.02	3.33
16 t	Benzyl alcohol	0.945	0.949	-0.4	104	-0.02	3.46
17 t	1,2-Dichlorobenzene	1.713	1.536	10.3	91	-0.02	3.47
18 t	Acetophenone	2.091	1.933	7.6	96	-0.02	3.71
19 t	2-Methylphenol	1.225	1.211	1.1	103	-0.02	3.59
20 t	2,2'-oxybis(1-Chloropropa	0.482	0.416	13.7	90	-0.02	3.59
21 t	3&4-Methylphenol	1.317	1.348	-2.4	107	-0.01	3.75
22 t	n-Nitroso-di-n-propylamin	1.112	1.216	-9.4	111	-0.02	3.72
23 t	Hexachloroethane	0.759	0.653	14.0	88	-0.02	3.80
24 I	Naphthalene-d8	1.000	1.000	0.0	96	-0.02	4.63
25 S	Nitrobenzene-d5	0.439	0.466	-6.2	110	-0.02	3.87
26 t	Nitrobenzene	0.464	0.479	-3.2	105	-0.02	3.89
27 t	Quinoline	0.726	0.703	3.2	97	-0.02	5.04
28 t	Isophorone	0.747	0.811	-8.6	108	-0.02	4.14
29 t	2-Nitrophenol	0.228	0.223	2.2	99	-0.02	4.23
30 t	2,4-Dimethylphenol	0.394	0.362	8.1	87	-0.02	4.31
31	Benzoic Acid	0.279	0.269	3.6	104	-0.04	4.46
32 t	bis(2-Chloroethoxy)methan	0.418	0.435	-4.1	108	-0.02	4.39
33 t	2,4-Dichlorophenol	0.367	0.352	4.1	93	-0.01	4.52
34	2,6-Dichlorophenol	0.362	0.357	1.4	100	-0.02	4.75
35 t	1,3,5-Trichlorobenzene	0.419	0.403	3.8	98	-0.02	4.23
36 t	1,2,4-Trichlorobenzene	0.416	0.387	7.0	94	-0.02	4.58
37 t	1,2,3-Trichlorobenzene	0.397	0.376	5.3	98	-0.02	4.83
38 t	Naphthalene	1.222	1.153	5.6	98	-0.02	4.66
39 t	4-Chloroaniline	0.490	0.424	13.5	86	-0.02	4.74
40 t	2,3-Dichloroaniline	0.416	0.391	6.0	96	-0.02	5.80
41 t	Caprolactam	0.254	0.213	16.1	84	-0.04	5.15

8.7.33

8

Continuing Calibration Summary

Page 2 of 3

Job Number: JB75844

Sample: EZ4729-CC4711

Account: LANGAN Langan Engineering & Environmental

Lab FileID: Z95246.D

Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

42 t	Hexachlorobutadiene	0.306	0.256	16.3	82	-0.02	4.80
43 t	4-Chloro-3-methylphenol	0.395	0.385	2.5	98	-0.02	5.36
44 t	2-Methylnaphthalene	0.695	0.666	4.2	99	-0.02	5.46
45 t	1-Methylnaphthalene	0.645	0.600	7.0	94	-0.02	5.57
46 t	Dimethylnaphthalene	0.729	0.660	9.5	92	-0.02	6.20
47 I	Acenaphthene-d10	1.000	1.000	0.0	101	-0.02	6.68
----- True Calc. % Drift -----							
48 t	Hexachlorocyclopentadiene	50.000	17.936	64.1#	36	-0.02	5.64
----- AvgRF CCRF % Dev -----							
49 t	2,4,6-Trichlorophenol	0.501	0.412	17.8	88	-0.02	5.82
50 t	2,4,5-Trichlorophenol	0.496	0.391	21.2#	85	-0.01	5.89
51 S	2-Fluorobiphenyl	1.469	1.267	13.8	93	-0.02	5.90
52 t	2-Chloronaphthalene	1.330	1.213	8.8	98	-0.02	6.03
53 t	Biphenyl	1.522	1.391	8.6	99	-0.02	6.02
54 t	2-Nitroaniline	0.482	0.478	0.8	106	-0.02	6.18
55 t	Dimethylphthalate	1.534	1.359	11.4	97	-0.02	6.41
56 t	Acenaphthylene	2.073	1.909	7.9	99	-0.02	6.51
57 t	2,6-Dinitrotoluene	0.346	0.315	9.0	101	-0.02	6.48
58 t	3-Nitroaniline	0.353	0.345	2.3	104	-0.02	6.68
59 t	Acenaphthene	1.298	1.178	9.2	99	-0.02	6.72
60 t	2,4-Dinitrophenol	0.192	0.140	27.1#	91	-0.01	6.84
61 t	4-Nitrophenol	0.237	0.151	36.3#	63	0.00	7.02
62 t	Dibenzofuran	1.811	1.720	5.0	105	-0.02	6.93
63 t	2,4-Dinitrotoluene	0.476	0.448	5.9	102	-0.02	6.98
64	2,3,4,6-Tetrachlorophenol	0.465	0.332	28.6#	79	-0.02	7.11
65 t	Diethylphthalate	1.570	1.383	11.9	96	-0.02	7.26
66 t	Fluorene	1.501	1.420	5.4	103	-0.02	7.34
67 t	4-Chlorophenyl-phenylethe	0.781	0.676	13.4	92	-0.02	7.36
68 t	4-Nitroaniline	0.339	0.316	6.8	99	-0.02	7.42
69 I	Phenanthrene-d10	1.000	1.000	0.0	96	-0.02	8.47
70 t	4,6-Dinitro-2-methylpheno	0.150	0.154	-2.7	98	-0.02	7.47
71 t	n-Nitrosodiphenylamine	0.603	0.570	5.5	98	-0.02	7.52
72 t	1,2-Diphenylhydrazine	0.803	0.857	-6.7	110	-0.02	7.55
73 S	2,4,6-Tribromophenol	0.162	0.119	26.5#	77	-0.02	7.64
74 t	4-Bromophenyl-phenylether	0.278	0.249	10.4	92	-0.02	7.94
75 t	Hexachlorobenzene	0.329	0.281	14.6	88	-0.02	8.00
76 t	Pentachlorophenol	0.169	0.097	42.6#	58	-0.01	8.28
77 t	Phenanthrene	1.239	1.223	1.3	105	-0.02	8.50
78 t	Anthracene	1.251	1.249	0.2	105	-0.02	8.56
79 t	Carbazole	1.044	1.053	-0.9	105	-0.02	8.79
80 t	Di-n-butylphthalate	1.445	1.367	5.4	100	-0.02	9.29
81 t	Fluoranthene	1.453	1.365	6.1	98	-0.02	10.06
82 t	Octadecane	0.684	0.572	16.4	88	-0.02	8.43
83 I	Chrysene-d12	1.000	1.000	0.0	95	-0.02	12.15
84 t	Pyrene	1.323	1.261	4.7	99	-0.02	10.36
85	Butyl stearate	0.435	0.389	10.6	94	-0.02	11.57
86 S	Terphenyl-d14	0.875	0.800	8.6	95	-0.02	10.64
87 t	Butylbenzylphthalate	0.556	0.548	1.4	102	-0.02	11.41
88 t	Benzo[a]anthracene	1.338	1.249	6.7	99	-0.02	12.14
89 t	3,3'-Dichlorobenzidine	0.460	0.417	9.3	90	-0.02	12.15
90 t	Chrysene	1.241	1.136	8.5	95	-0.02	12.19
91 t	bis(2-Ethylhexyl)phthalat	0.763	0.751	1.6	101	-0.02	12.33
92 I	Perylene-d12	1.000	1.000	0.0	91	-0.01	14.21
93 t	Di-n-octylphthalate	1.466	1.488	-1.5	105	-0.02	13.29

8.7.33

8

Continuing Calibration Summary

Page 3 of 3

Job Number: JB75844

Account: LANGAN Langan Engineering & Environmental

Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

Sample: EZ4729-CC4711

Lab FileID: Z95246.D

94 t	Benzo[b]fluoranthene	1.500	1.366	8.9	95	-0.02	13.70
95 t	Benzo[k]fluoranthene	1.441	1.310	9.1	95	-0.02	13.74
96 t	Benzo[a]pyrene	1.324	1.205	9.0	95	-0.02	14.14
97 t	Indeno[1,2,3-cd]pyrene	1.325	1.271	4.1	99	-0.02	15.59
98 t	Dibenz(a,h)acridine	1.063	0.965	9.2	94	-0.02	15.29
99 t	Dibenz[a,h]anthracene	1.302	1.174	9.8	92	-0.02	15.61

		----- True	Calc.	% Drift	-----		
100 t	7,12-Dimethylbenz(a)anthr	25.000	24.181	3.3	91	-0.03	13.68

		----- AvgRF	CCRF	% Dev	-----		
101 t	Benzo[g,h,i]perylene	1.318	1.181	10.4	92	-0.03	15.95

(#) = Out of Range

Z94959.D MZ4711.M

SPCC's out = 0 CCC's out = 0

Tue Sep 09 11:27:26 2014 RTE

8.7.33

8

Continuing Calibration Summary

Page 1 of 1

Job Number: JB75844

Sample: EZ4729-CC4711

Account: LANGAN Langan Engineering & Environmental

Lab FileID: Z95247.D

Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\ez4729\z95247.D Vial: 3
 Acq On : 8 Sep 2014 8:28 pm Operator: saraw
 Sample : cc4711-25 Inst : MSZ
 Misc : op77770,ez4729 Multiplr: 1.00
 MS Integration Params: RTEINT.P

Method : C:\MSDCHEM\1\METHODS\MZ4711.M (RTE Integrator)
 Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
 Last Update : Tue Sep 09 09:08:18 2014
 Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 20% Max. Rel. Area : 202%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
102	1,4-Dichlorobenzene-d4a	1.000	1.000	0.0	115	-0.02	3.31
103	Benzaldehyde	0.846	1.060	-25.3#	146	-0.21	2.92
104	Phenanthrene-d10a	1.000	1.000	0.0	118	-0.02	8.47
105	Atrazine	0.112	0.119	-6.2	121	-0.23	8.20
106	Chrysene-d12a	1.000	1.000	0.0	120	-0.02	12.15
107	Benzidine	0.491	0.429	12.6	100	-0.21	10.29
108	Acenaphthene-d10a	1.000	1.000	0.0	118	-0.02	6.68
109	1,2,4,5-Tetrachlorobenzen	0.663	0.628	5.3	115	-0.21	5.66
110 I	Naphthalene-d8a	1.000	1.000	0.0	122	-0.02	4.63
111	Hydroquinone	0.302	0.300	0.7	123	-0.09	5.20

(#) = Out of Range
 z94959.D MZ4711.M

SPCC's out = 0 CCC's out = 0
 Tue Sep 09 09:09:26 2014 RTE

8.7.34

8

GC/MS Semi-volatiles

Raw Data

6

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ez4729\
 Data File : z95253.D
 Acq On : 8 Sep 2014 11:30 pm
 Operator : saraw
 Sample : jB75844-1
 Misc : op77866,ez4729,31.9,,,5
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 09 08:01:04 2014
 Quant Method : C:\MSDCHEM\1\METHODS\MZ4711.M
 Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
 QLast Update : Tue Sep 09 07:58:17 2014
 Response via : Initial Calibration

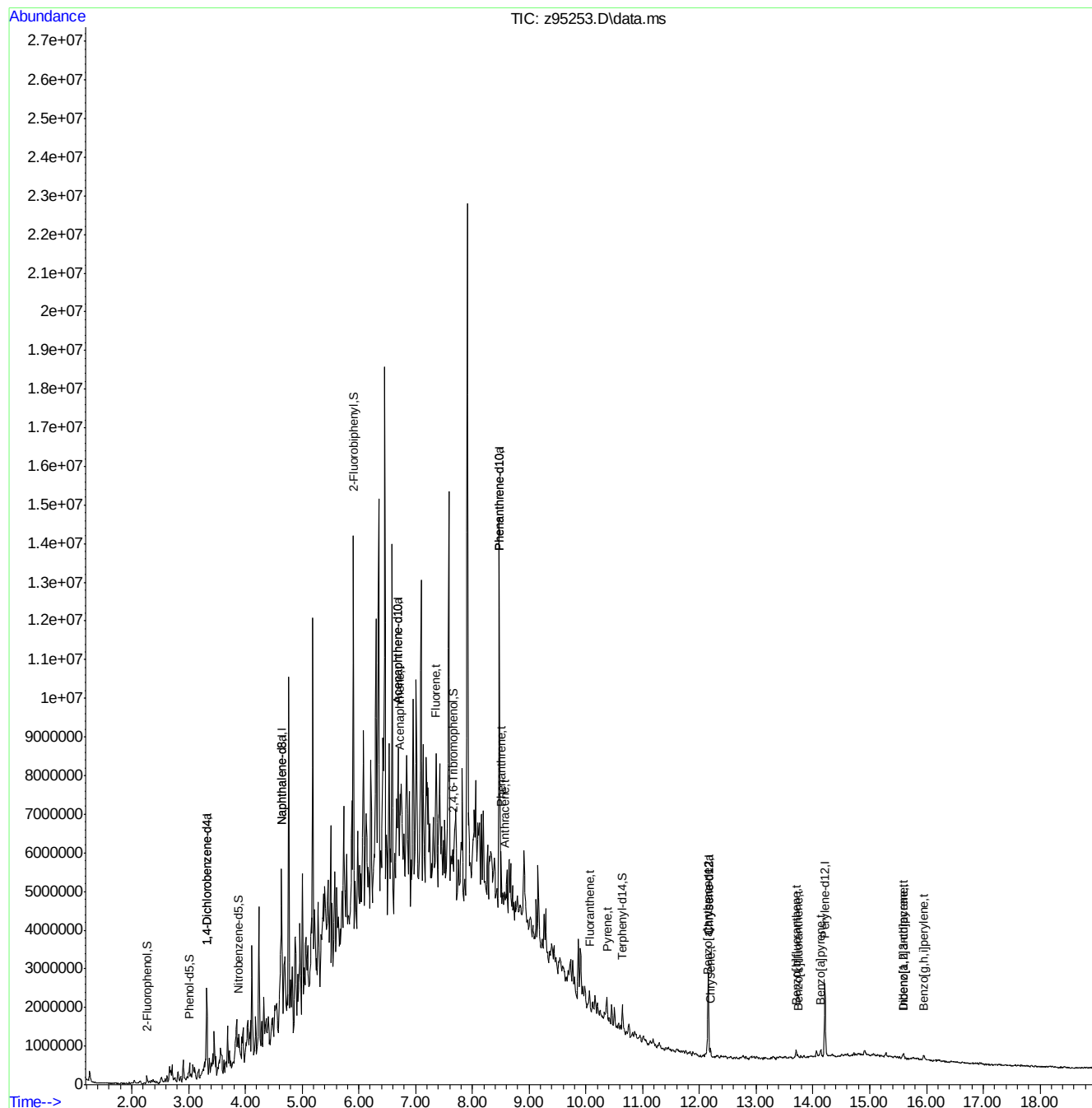
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	3.319	152	200392	40.00	ppb	0.00
24) Naphthalene-d8	4.638	136	764098	40.00	ppb	0.00
47) Acenaphthene-d10	6.695	164	495233	40.00	ppb	0.02
69) Phenanthrene-d10	8.479	188	858888	40.00	ppb	0.02
83) Chrysene-d12	12.160	240	949596	40.00	ppb	0.01
92) Perylene-d12	14.211	264	889628	40.00	ppb	0.01
102) 1,4-Dichlorobenzene-d4a	3.319	152	200392	40.00	ppb	0.00
104) Phenanthrene-d10a	8.479	188	858888	40.00	ppb	0.02
106) Chrysene-d12a	12.160	240	949596	40.00	ppb	0.01
108) Acenaphthene-d10a	6.695	164	492292	40.00	ppb	0.02
110) Naphthalene-d8a	4.638	136	764098	40.00	ppb	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	2.266	112	46731	7.48	ppb	0.00
Spiked Amount	50.000		Recovery	=	14.96%	
8) Phenol-d5	3.014	99	73762	9.41	ppb	0.00
Spiked Amount	50.000		Recovery	=	18.82%	
25) Nitrobenzene-d5	3.869	82	88367	10.53	ppb	0.00
Spiked Amount	50.000		Recovery	=	21.06%	
51) 2-Fluorobiphenyl	5.904	172	153067	8.42	ppb	0.00
Spiked Amount	50.000		Recovery	=	16.84%	
73) 2,4,6-Tribromophenol	7.657	330	27086	7.81	ppb	0.02
Spiked Amount	50.000		Recovery	=	15.62%	
86) Terphenyl-d14	10.643	244	200642	9.66	ppb	0.00
Spiked Amount	50.000		Recovery	=	19.32%	
Target Compounds						
						Qvalue
59) Acenaphthene	6.727	153	89033	5.54	ppb	96
66) Fluorene	7.352	166	155735	8.38	ppb	88
77) Phenanthrene	8.506	178	411968	15.49	ppb	99
78) Anthracene	8.570	178	89382	3.33	ppb	83
81) Fluoranthene	10.066	202	173800	5.57	ppb	91
84) Pyrene	10.370	202	243777	7.76	ppb	89
88) Benzo[a]anthracene	12.144	228	99253	3.13	ppb	94
90) Chrysene	12.192	228	91312	3.10	ppb	93
94) Benzo[b]fluoranthene	13.704	252	102549	3.07	ppb	97
95) Benzo[k]fluoranthene	13.736	252	34701	1.08	ppb	86
96) Benzo[a]pyrene	14.137	252	81305	2.76	ppb	84
97) Indeno[1,2,3-cd]pyrene	15.590	276	63644	2.16	ppb	91
99) Dibenz[a,h]anthracene	15.600	278	18134m	0.63	ppb	
101) Benzo[g,h,i]perylene	15.953	276	83049	2.83	ppb	96

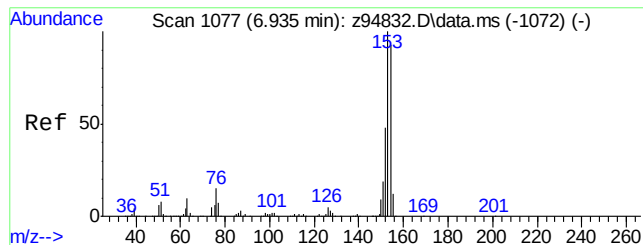
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ez4729\
Data File : z95253.D
Acq On : 8 Sep 2014 11:30 pm
Operator : saraw
Sample : jb75844-1
Misc : op77866,ez4729,31.9,,,5
ALS Vial : 9 Sample Multiplier: 1

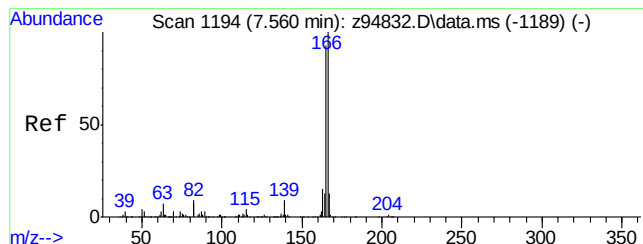
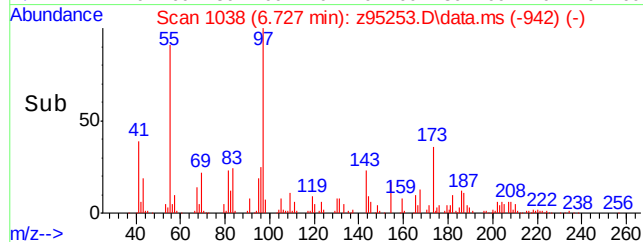
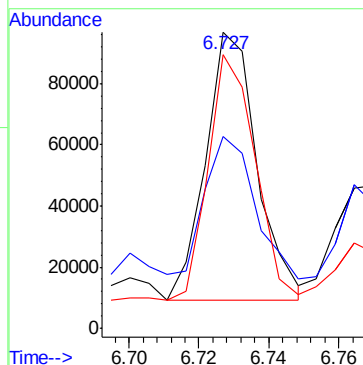
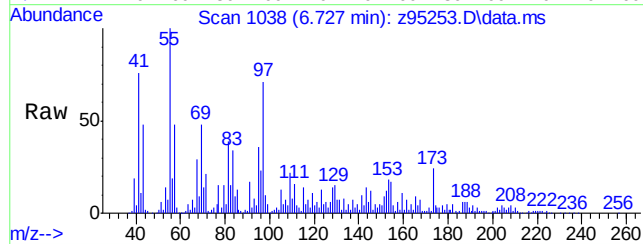
Quant Time: Sep 09 08:01:04 2014
Quant Method : C:\MSDCHEM\1\METHODS\MZ4711.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Tue Sep 09 07:58:17 2014
Response via : Initial Calibration





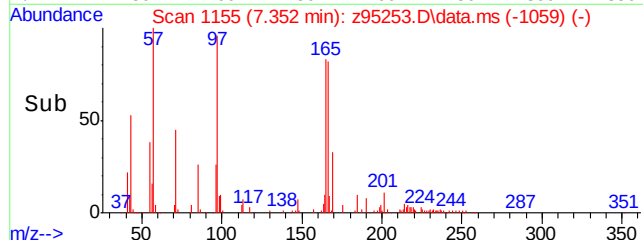
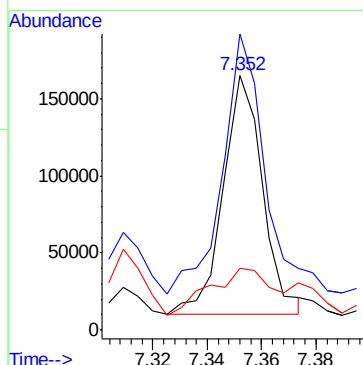
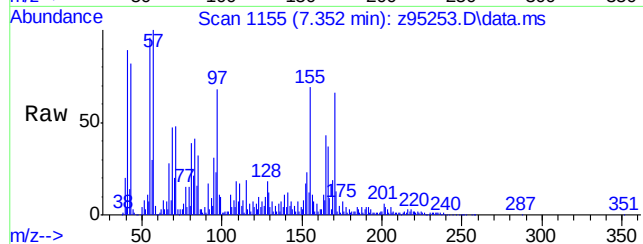
#59
Acenaphthene
Concen: 5.54 ppb
RT: 6.727 min Scan# 1038
Delta R.T. 0.011 min
Lab File: z95253.D
Acq: 8 Sep 2014 11:30 pm

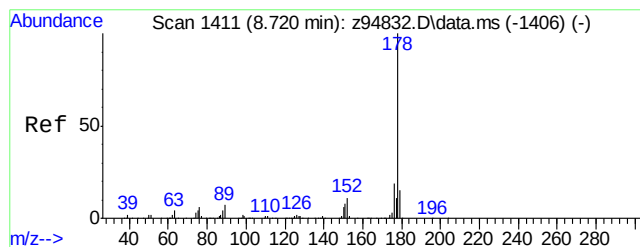
Tgt Ion	Ratio	Lower	Upper
153	100		
152	54.0	16.6	76.6
154	93.1	63.1	123.1



#66
Fluorene
Concen: 8.38 ppb
RT: 7.352 min Scan# 1155
Delta R.T. 0.011 min
Lab File: z95253.D
Acq: 8 Sep 2014 11:30 pm

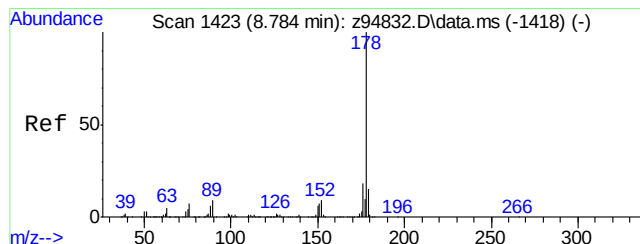
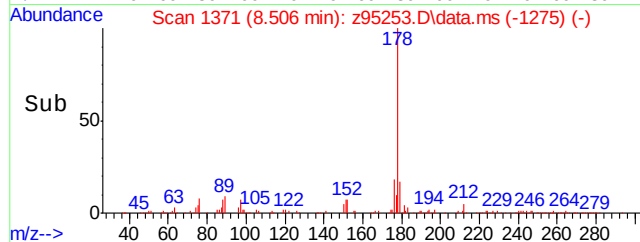
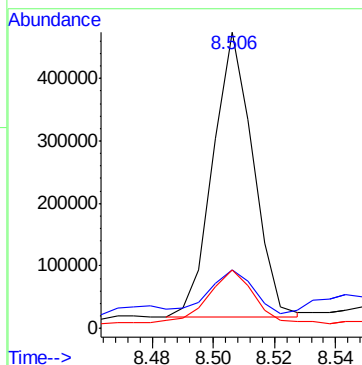
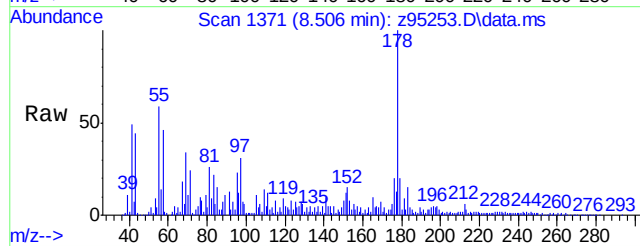
Tgt Ion	Ratio	Lower	Upper
166	100		
165	107.3	64.0	124.0
167	13.3	0.0	43.2





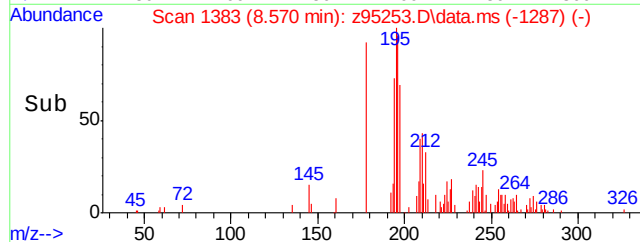
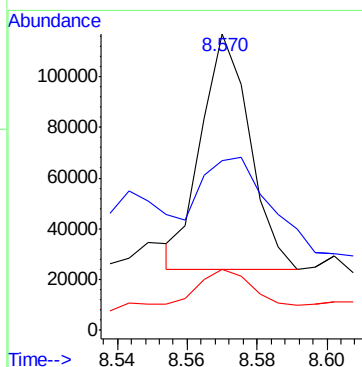
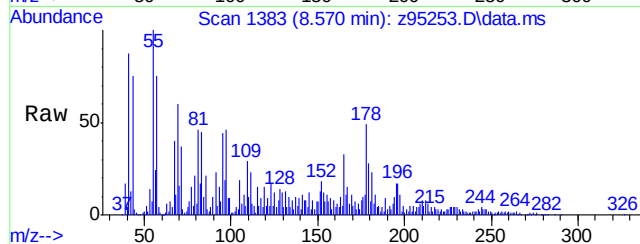
#77
Phenanthrene
Concen: 15.49 ppb
RT: 8.506 min Scan# 1371
Delta R.T. 0.011 min
Lab File: z95253.D
Acq: 8 Sep 2014 11:30 pm

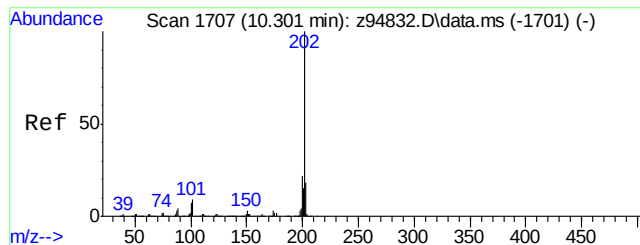
Tgt Ion	Ratio	Lower	Upper
178	100		
179	14.2	0.0	44.0
176	17.8	0.0	48.5



#78
Anthracene
Concen: 3.33 ppb
RT: 8.570 min Scan# 1383
Delta R.T. 0.011 min
Lab File: z95253.D
Acq: 8 Sep 2014 11:30 pm

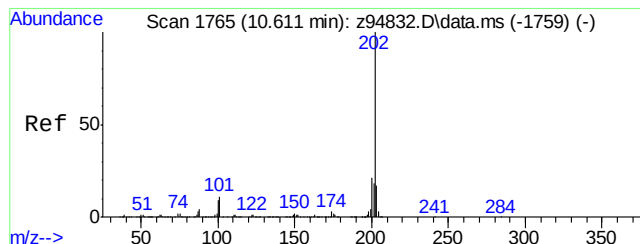
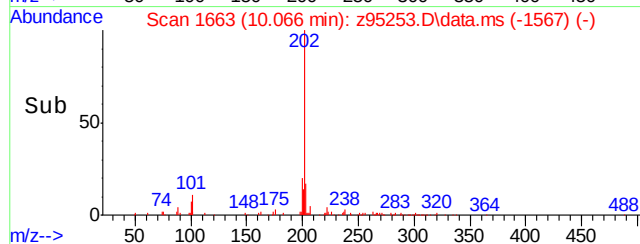
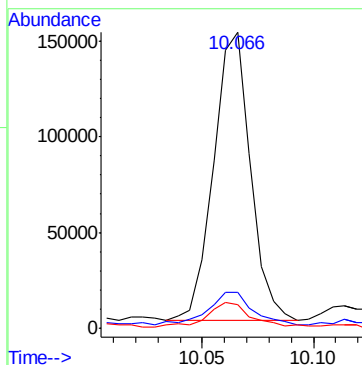
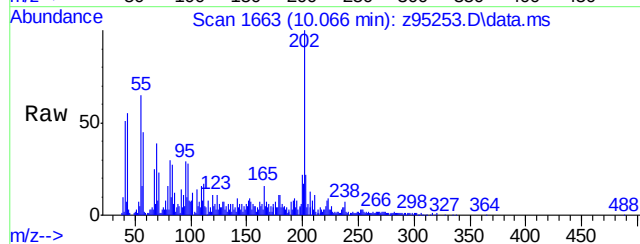
Tgt Ion	Ratio	Lower	Upper
178	100		
179	27.4	0.0	44.9
176	15.9	0.0	48.4





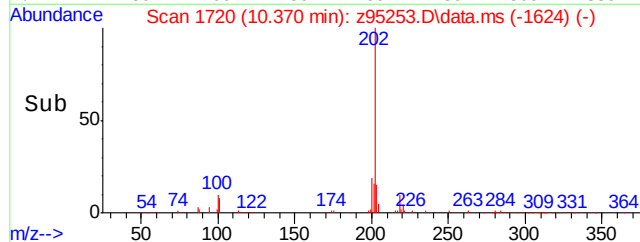
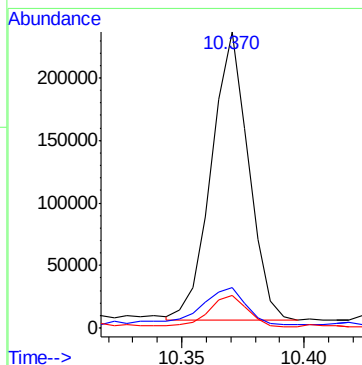
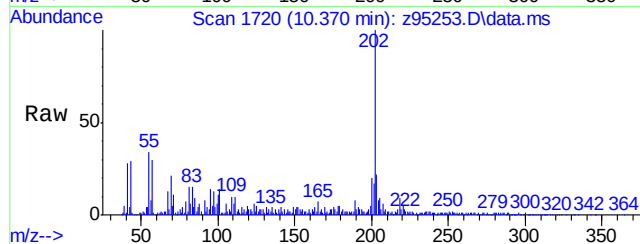
#81
Fluoranthene
Concen: 5.57 ppb
RT: 10.066 min Scan# 1663
Delta R.T. 0.011 min
Lab File: z95253.D
Acq: 8 Sep 2014 11:30 pm

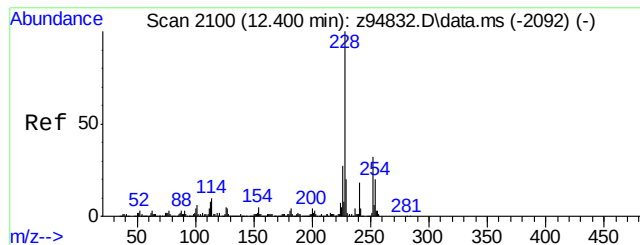
Tgt Ion:	202	Resp:	173800
Ion Ratio	Lower	Upper	
202	100		
101	12.8	0.0	38.1
100	7.3	0.0	36.3



#84
Pyrene
Concen: 7.76 ppb
RT: 10.370 min Scan# 1720
Delta R.T. 0.011 min
Lab File: z95253.D
Acq: 8 Sep 2014 11:30 pm

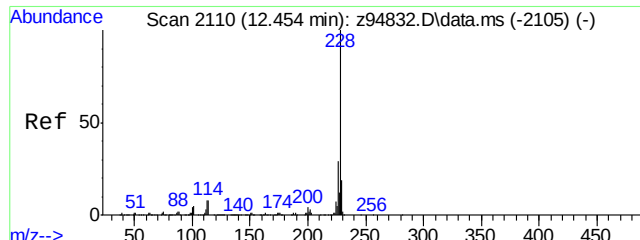
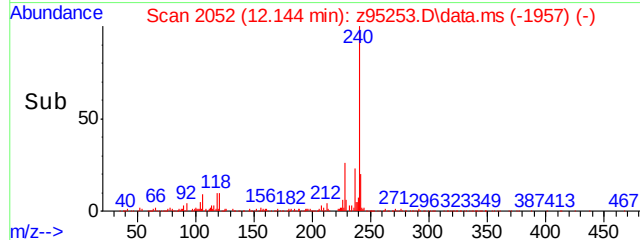
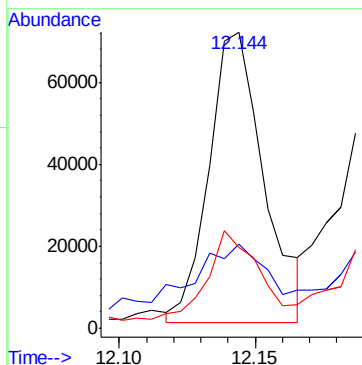
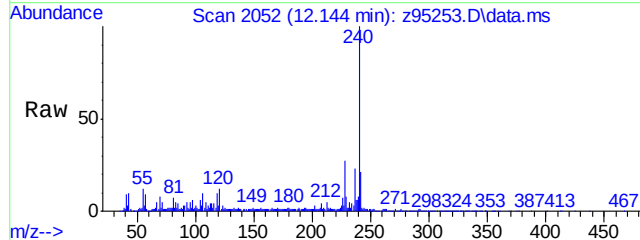
Tgt Ion:	202	Resp:	243777
Ion Ratio	Lower	Upper	
202	100		
101	12.2	0.0	38.3
100	10.8	0.0	37.2





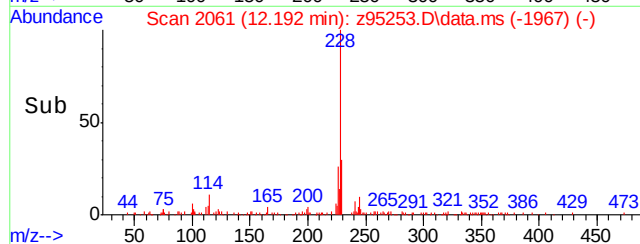
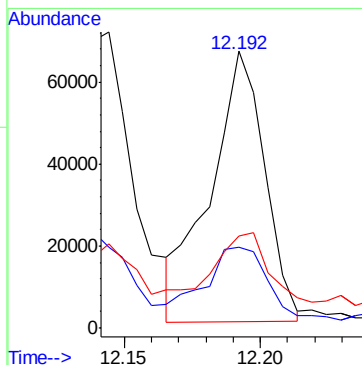
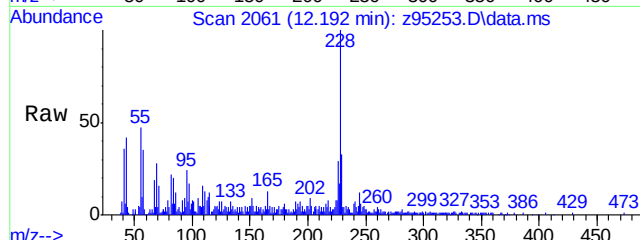
#88
Benzo[a]anthracene
Concen: 3.13 ppb
RT: 12.144 min Scan# 2052
Delta R.T. 0.005 min
Lab File: z95253.D
Acq: 8 Sep 2014 11:30 pm

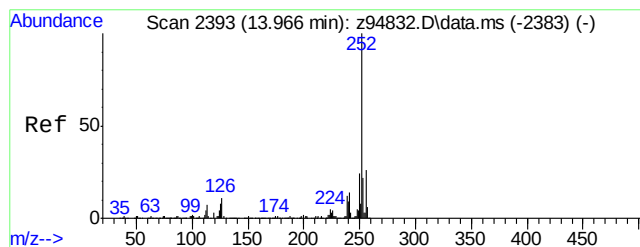
Tgt Ion:	228	Resp:	99253
Ion Ratio	Lower	Upper	
228	100		
229	17.3	0.0	49.8
226	24.3	0.0	57.5



#90
Chrysene
Concen: 3.10 ppb
RT: 12.192 min Scan# 2061
Delta R.T. -0.000 min
Lab File: z95253.D
Acq: 8 Sep 2014 11:30 pm

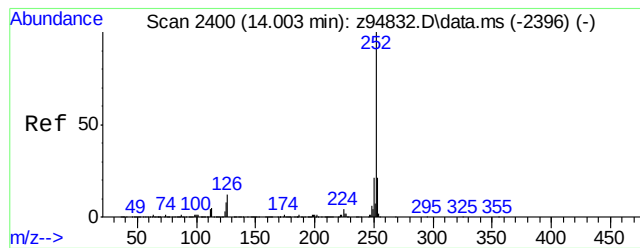
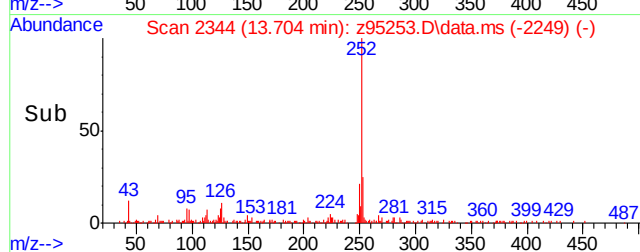
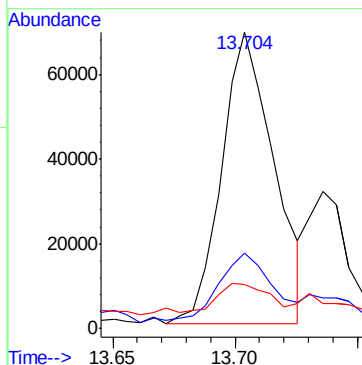
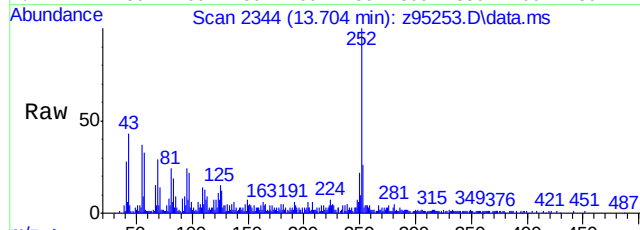
Tgt Ion:	228	Resp:	91312
Ion Ratio	Lower	Upper	
228	100		
226	27.0	0.0	59.4
229	24.8	0.0	49.7





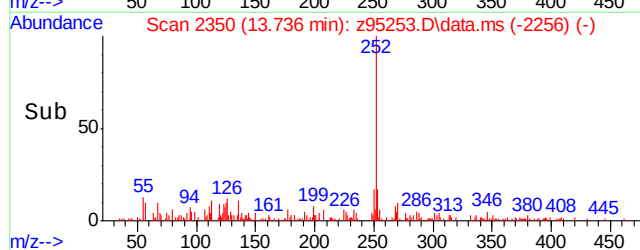
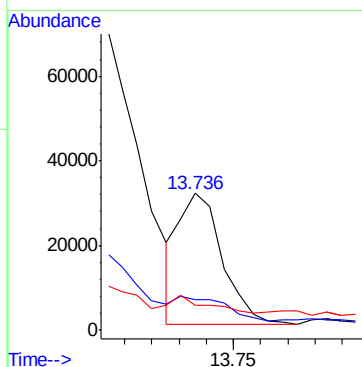
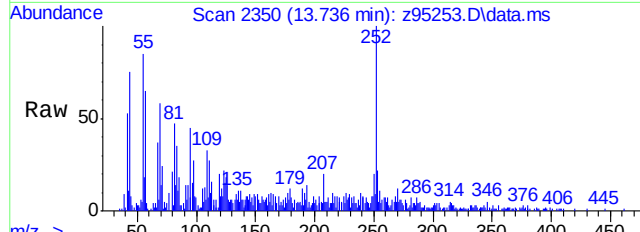
#94
Benzo[b]fluoranthene
Concen: 3.07 ppb
RT: 13.704 min Scan# 2344
Delta R.T. 0.005 min
Lab File: z95253.D
Acq: 8 Sep 2014 11:30 pm

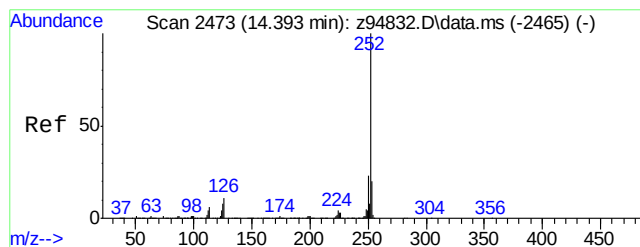
Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.4	0.0	52.2
125	8.6	0.0	36.1



#95
Benzo[k]fluoranthene
Concen: 1.08 ppb
RT: 13.736 min Scan# 2350
Delta R.T. -0.000 min
Lab File: z95253.D
Acq: 8 Sep 2014 11:30 pm

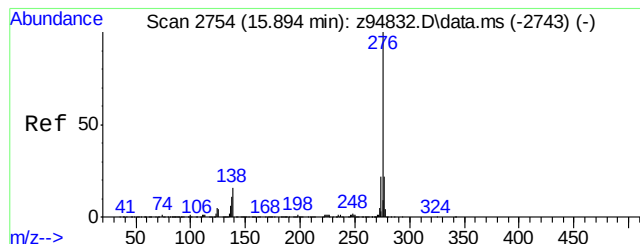
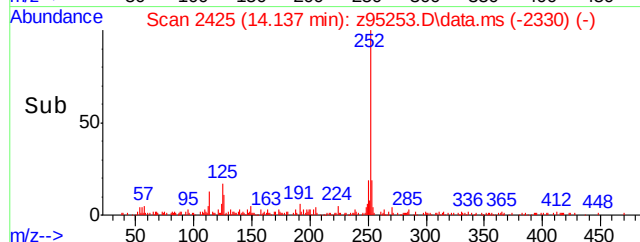
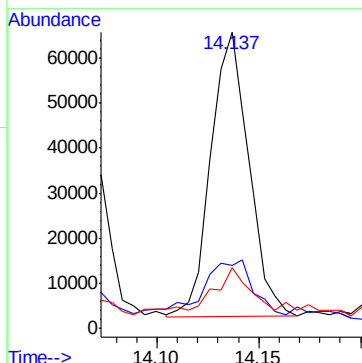
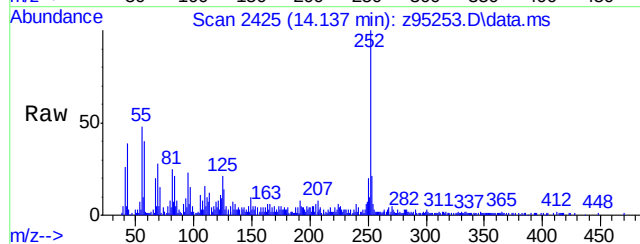
Tgt Ion	Ratio	Lower	Upper
252	100		
253	13.7	0.0	50.8
125	3.0	0.0	36.8





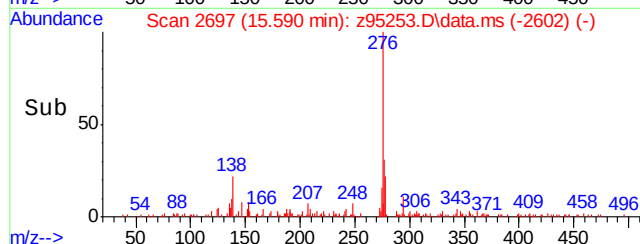
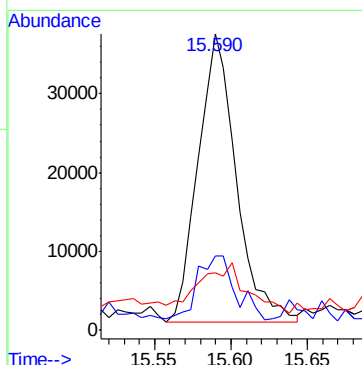
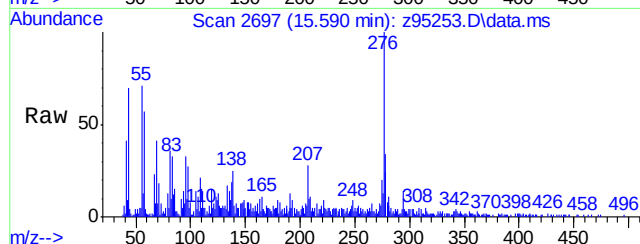
#96
Benzo[a]pyrene
Concen: 2.76 ppb
RT: 14.137 min Scan# 2425
Delta R.T. 0.005 min
Lab File: z95253.D
Acq: 8 Sep 2014 11:30 pm

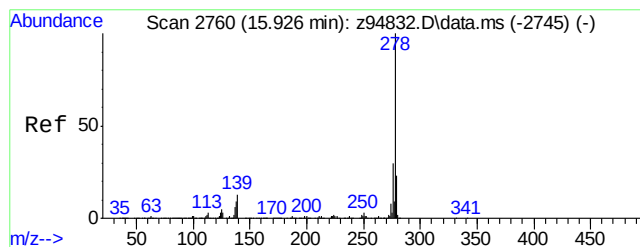
Tgt Ion:	252	Resp:	81305
Ion Ratio	Lower	Upper	
252	100		
253	15.2	0.0	51.8
125	14.9	0.0	36.8



#97
Indeno[1,2,3-cd]pyrene
Concen: 2.16 ppb
RT: 15.590 min Scan# 2697
Delta R.T. 0.005 min
Lab File: z95253.D
Acq: 8 Sep 2014 11:30 pm

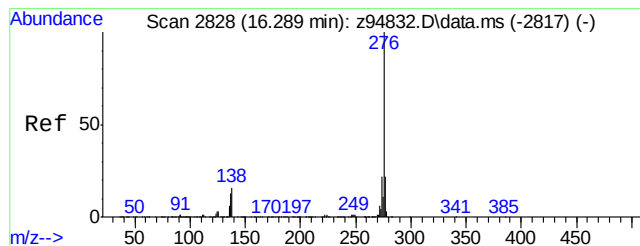
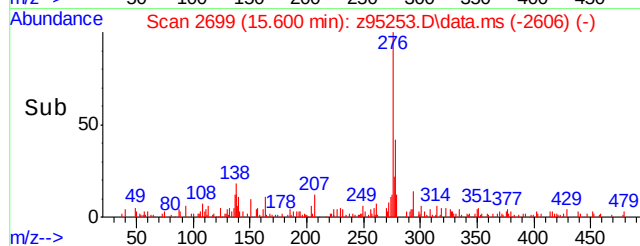
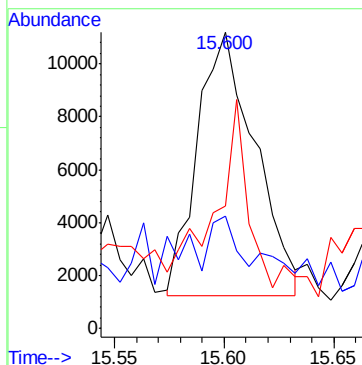
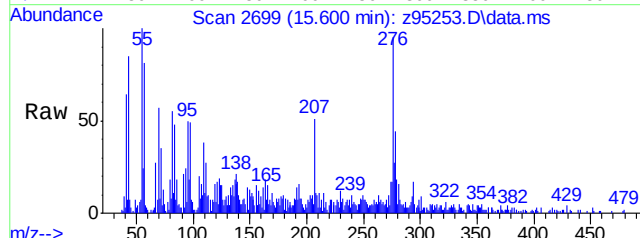
Tgt Ion:	276	Resp:	63644
Ion Ratio	Lower	Upper	
276	100		
138	20.8	0.0	45.0
137	10.9	0.0	40.0





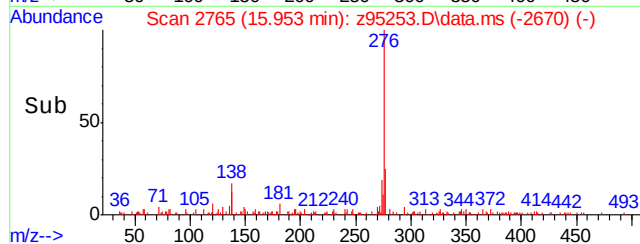
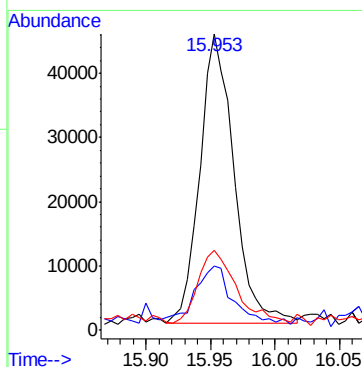
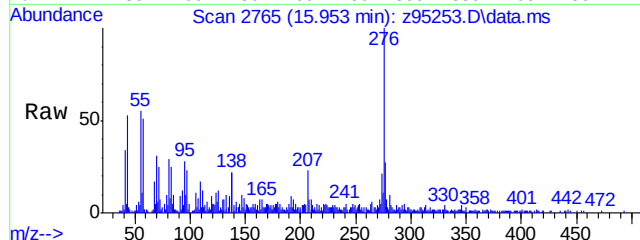
#99
Dibenz[a,h]anthracene
Concen: 0.63 ppb m
RT: 15.600 min Scan# 2699
Delta R.T. -0.005 min
Lab File: z95253.D
Acq: 8 Sep 2014 11:30 pm

Tgt Ion:	278	Resp:	18134
Ion Ratio	Lower	Upper	
278	100		
139	38.0	0.0	42.1
279	41.3	0.0	53.7



#101
Benzo[g,h,i]perylene
Concen: 2.83 ppb
RT: 15.953 min Scan# 2765
Delta R.T. 0.005 min
Lab File: z95253.D
Acq: 8 Sep 2014 11:30 pm

Tgt Ion:	276	Resp:	83049
Ion Ratio	Lower	Upper	
276	100		
138	18.2	0.0	44.7
277	23.8	0.0	54.5



Manual Integration Approval Summary

Sample Number:

JB75844-1

Method:

SW846 8270D

Lab FileID:

Z95253.D

Analyst approved:

09/09/14 10:13 Andrew Lee Smith

Injection Time:

09/08/14 23:30

Supervisor approved:

09/09/14 10:29 Nina Pandya

Parameter	CAS	Sig#	R.T. (min.)	Reason
Dibenzo(a,h)anthracene	53-70-3		15.60	Poor instrument integration

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ez4729\
 Data File : z95254.D
 Acq On : 8 Sep 2014 11:55 pm
 Operator : saraw
 Sample : jb75844-2
 Misc : op77866,ez4729,30.2,,,5
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 09 08:03:07 2014
 Quant Method : C:\MSDCHEM\1\METHODS\MZ4711.M
 Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
 QLast Update : Tue Sep 09 07:58:17 2014
 Response via : Initial Calibration

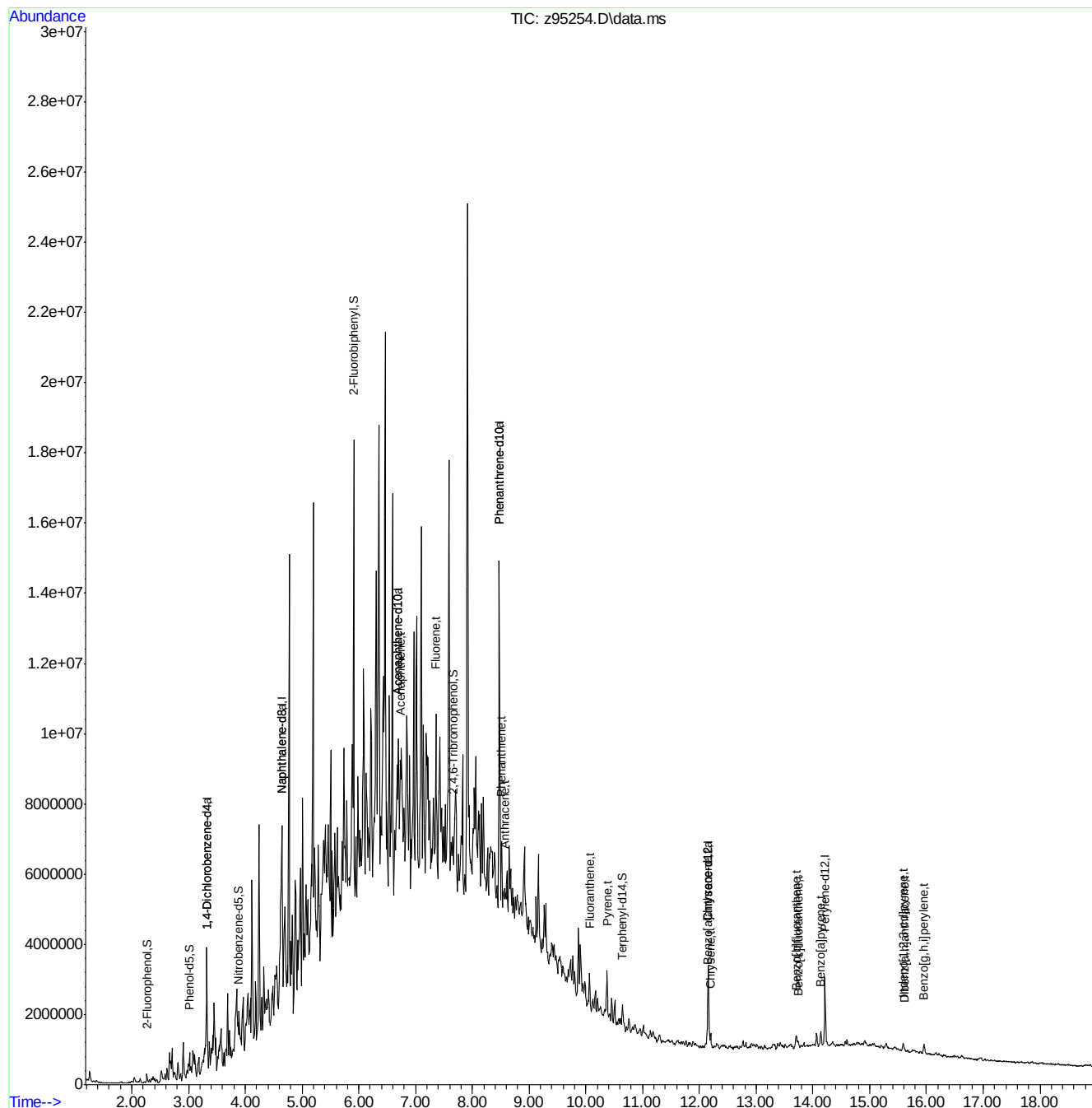
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	3.319	152	207568	40.00	ppb	0.00
24) Naphthalene-d8	4.639	136	783784	40.00	ppb	0.00
47) Acenaphthene-d10	6.695	164	521412	40.00	ppb	0.02
69) Phenanthrene-d10	8.480	188	875552	40.00	ppb	0.02
83) Chrysene-d12	12.155	240	938416	40.00	ppb	0.00
92) Perylene-d12	14.212	264	901293	40.00	ppb	0.01
102) 1,4-Dichlorobenzene-d4a	3.319	152	207568	40.00	ppb	0.00
104) Phenanthrene-d10a	8.480	188	875552	40.00	ppb	0.02
106) Chrysene-d12a	12.155	240	938416	40.00	ppb	0.00
108) Acenaphthene-d10a	6.695	164	521412	40.00	ppb	0.02
110) Naphthalene-d8a	4.639	136	783784	40.00	ppb	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	2.267	112	50956	7.87	ppb	0.00
Spiked Amount 50.000			Recovery	=	15.74%	
8) Phenol-d5	3.015	99	77305	9.52	ppb	0.00
Spiked Amount 50.000			Recovery	=	19.04%	
25) Nitrobenzene-d5	3.875	82	86945m	10.10	ppb	0.00
Spiked Amount 50.000			Recovery	=	20.20%	
51) 2-Fluorobiphenyl	5.910	172	151812	7.93	ppb	0.01
Spiked Amount 50.000			Recovery	=	15.86%	
73) 2,4,6-Tribromophenol	7.657	330	26573	7.51	ppb	0.02
Spiked Amount 50.000			Recovery	=	15.02%	
86) Terphenyl-d14	10.643	244	194136	9.45	ppb	0.00
Spiked Amount 50.000			Recovery	=	18.90%	
Target Compounds						
						Qvalue
59) Acenaphthene	6.733	153	122408	7.24	ppb	98
66) Fluorene	7.358	166	240163	12.27	ppb	97
77) Phenanthrene	8.512	178	602050	22.20	ppb	98
78) Anthracene	8.576	178	168180	6.14	ppb	87
81) Fluoranthene	10.066	202	420078	13.21	ppb	92
84) Pyrene	10.371	202	541007	17.43	ppb	84
88) Benzo[a]anthracene	12.144	228	220737	7.03	ppb	96
90) Chrysene	12.192	228	223731	7.68	ppb	94
94) Benzo[b]fluoranthene	13.704	252	225593	6.68	ppb	91
95) Benzo[k]fluoranthene	13.736	252	58467	1.80	ppb	86
96) Benzo[a]pyrene	14.137	252	213781	7.16	ppb	94
97) Indeno[1,2,3-cd]pyrene	15.590	276	129162	4.33	ppb	94
99) Dibenz[a,h]anthracene	15.606	278	40466	1.38	ppb	90
101) Benzo[g,h,i]perylene	15.959	276	187479	6.31	ppb	96

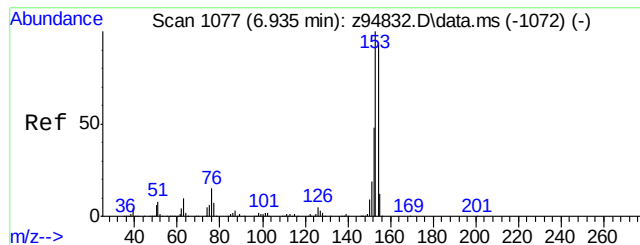
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ez4729\
Data File : z95254.D
Acq On : 8 Sep 2014 11:55 pm
Operator : saraw
Sample : jb75844-2
Misc : op77866,ez4729,30.2,,,5
ALS Vial : 10 Sample Multiplier: 1

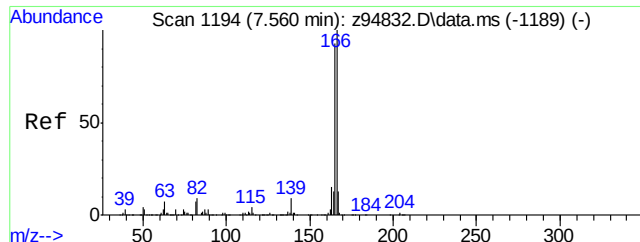
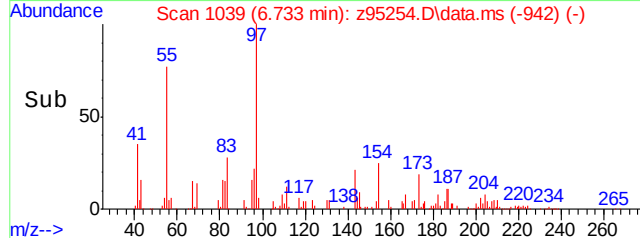
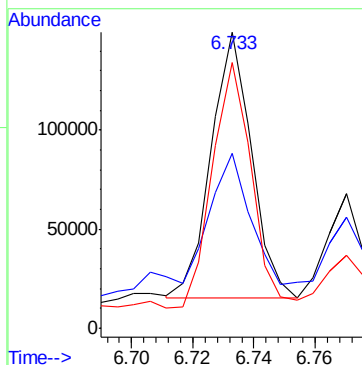
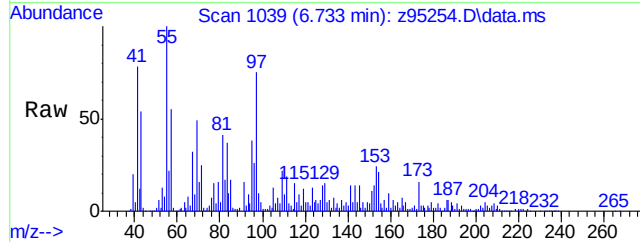
Quant Time: Sep 09 08:03:07 2014
Quant Method : C:\MSDCHEM\1\METHODS\MZ4711.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Tue Sep 09 07:58:17 2014
Response via : Initial Calibration





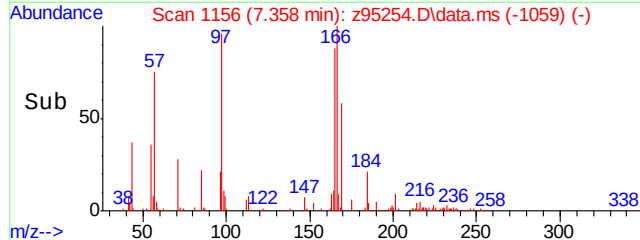
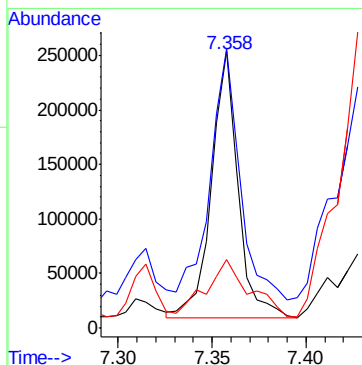
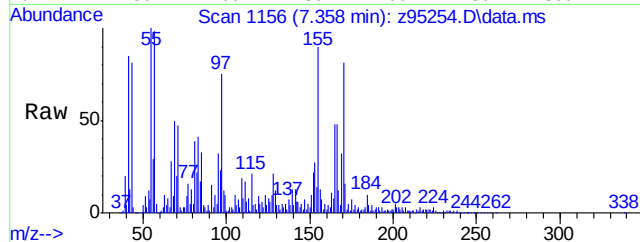
#59
Acenaphthene
Concen: 7.24 ppb
RT: 6.733 min Scan# 1039
Delta R.T. 0.016 min
Lab File: z95254.D
Acq: 8 Sep 2014 11:55 pm

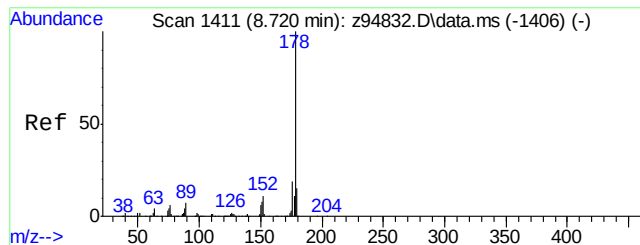
Tgt Ion:	153	Resp:	122408
Ion Ratio	Lower	Upper	
153	100		
152	47.8	16.6	76.6
154	91.2	63.1	123.1



#66
Fluorene
Concen: 12.27 ppb
RT: 7.358 min Scan# 1156
Delta R.T. 0.016 min
Lab File: z95254.D
Acq: 8 Sep 2014 11:55 pm

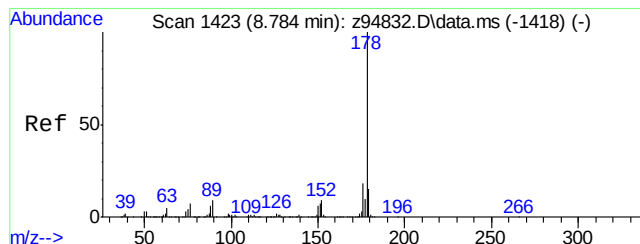
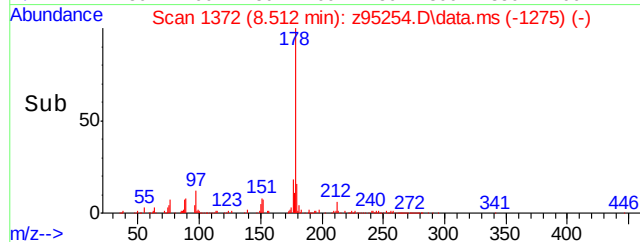
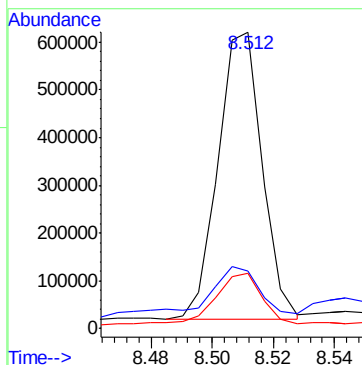
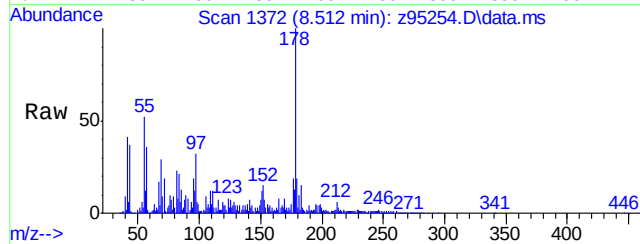
Tgt Ion:	166	Resp:	240163
Ion Ratio	Lower	Upper	
166	100		
165	92.9	64.0	124.0
167	20.6	0.0	43.2





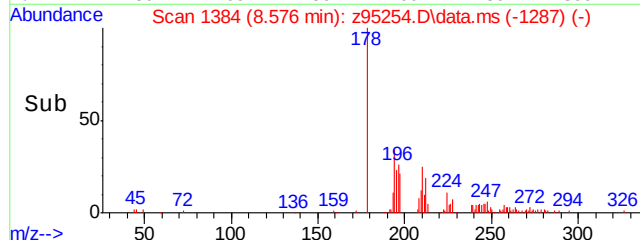
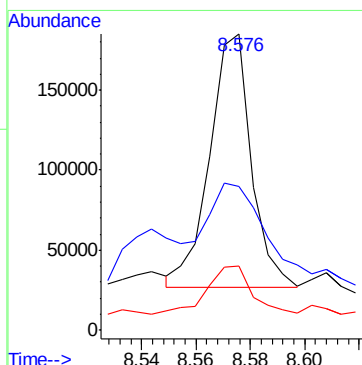
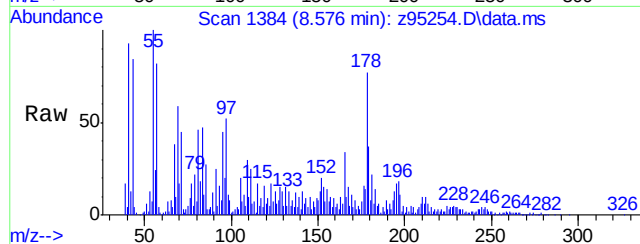
#77
Phenanthrene
Concen: 22.20 ppb
RT: 8.512 min Scan# 1372
Delta R.T. 0.016 min
Lab File: z95254.D
Acq: 8 Sep 2014 11:55 pm

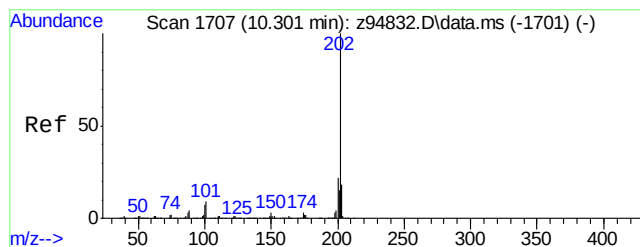
Tgt Ion	Ratio	Lower	Upper
178	100		
179	14.3	0.0	44.0
176	17.5	0.0	48.5



#78
Anthracene
Concen: 6.14 ppb
RT: 8.576 min Scan# 1384
Delta R.T. 0.016 min
Lab File: z95254.D
Acq: 8 Sep 2014 11:55 pm

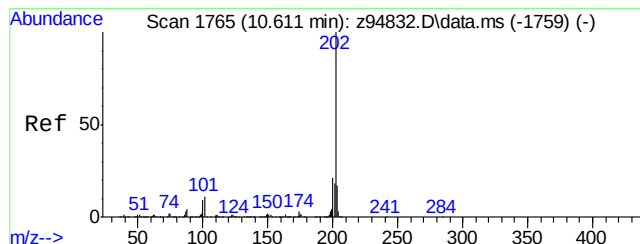
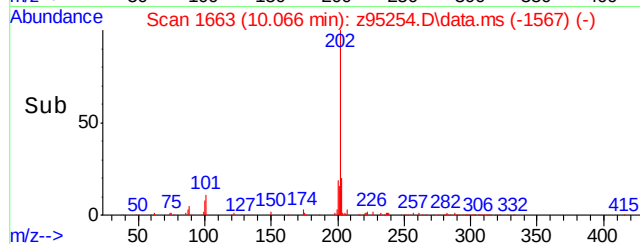
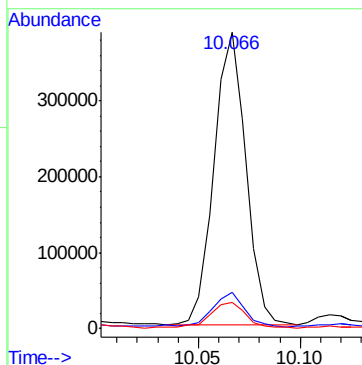
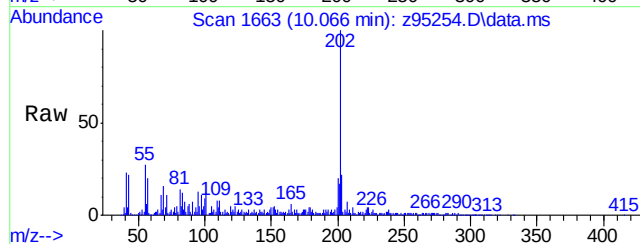
Tgt Ion	Ratio	Lower	Upper
178	100		
179	26.5	0.0	44.9
176	18.2	0.0	48.4





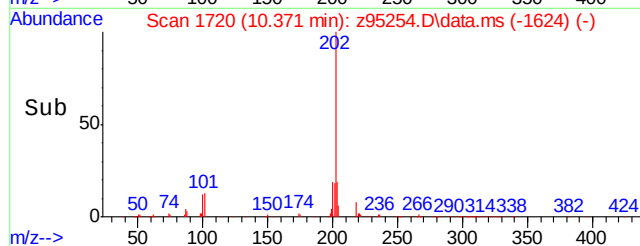
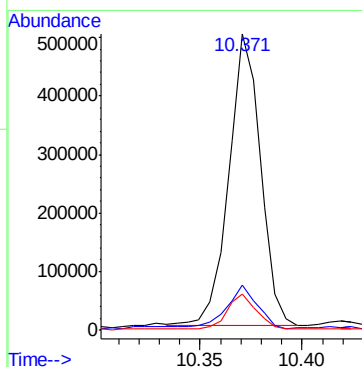
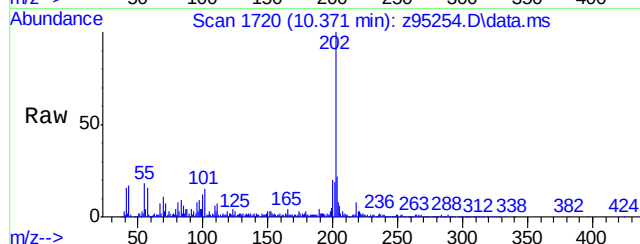
#81
Fluoranthene
Concen: 13.21 ppb
RT: 10.066 min Scan# 1663
Delta R.T. 0.011 min
Lab File: z95254.D
Acq: 8 Sep 2014 11:55 pm

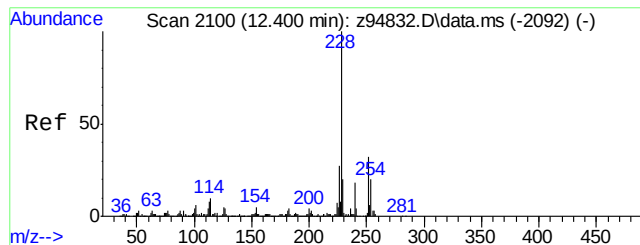
Tgt Ion:	202	Resp:	420078
Ion Ratio	Lower	Upper	
202	100		
101	11.3	0.0	38.1
100	8.7	0.0	36.3



#84
Pyrene
Concen: 17.43 ppb
RT: 10.371 min Scan# 1720
Delta R.T. 0.011 min
Lab File: z95254.D
Acq: 8 Sep 2014 11:55 pm

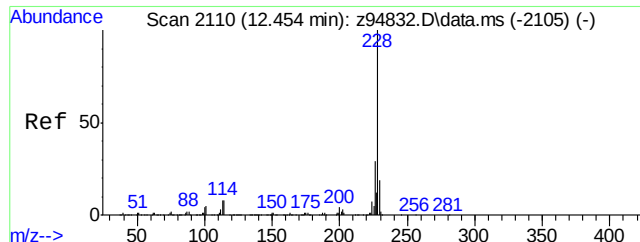
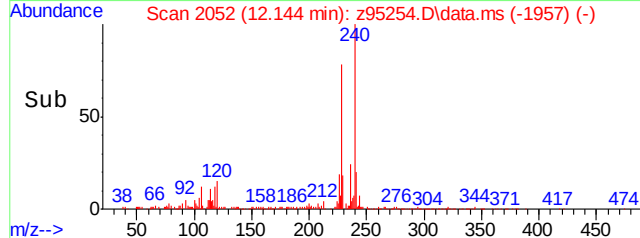
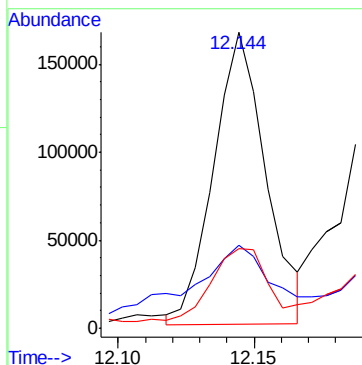
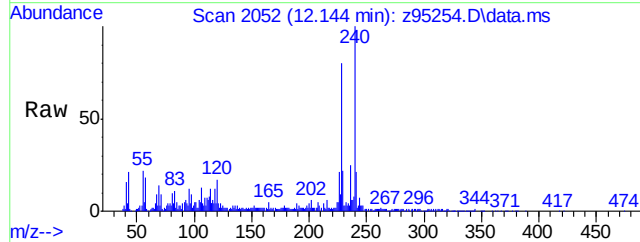
Tgt Ion:	202	Resp:	541007
Ion Ratio	Lower	Upper	
202	100		
101	14.6	0.0	38.3
100	12.1	0.0	37.2





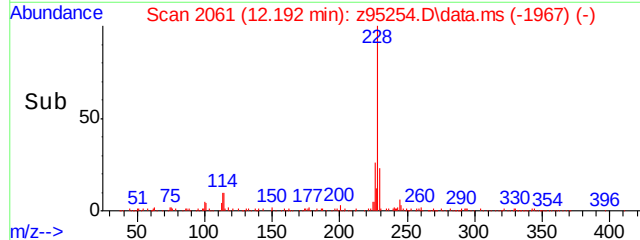
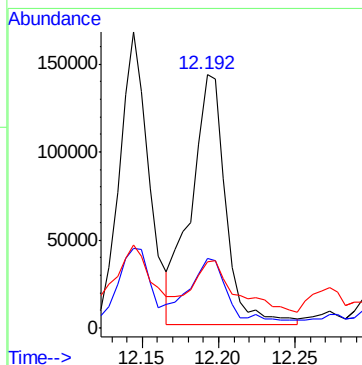
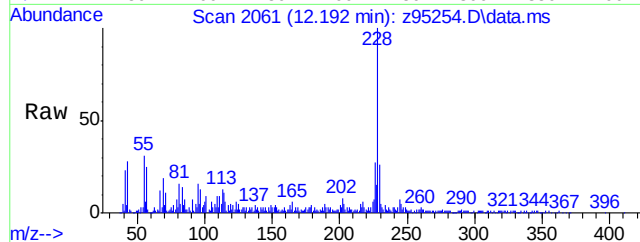
#88
Benzo[a]anthracene
Concen: 7.03 ppb
RT: 12.144 min Scan# 2052
Delta R.T. 0.006 min
Lab File: z95254.D
Acq: 8 Sep 2014 11:55 pm

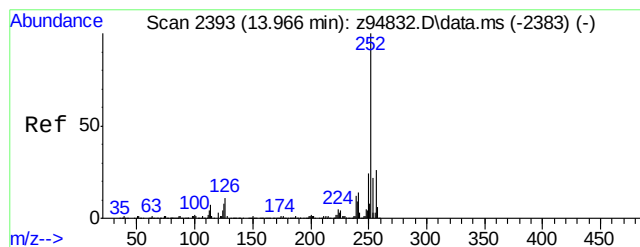
Tgt Ion:	228	Resp:	220737
Ion Ratio	Lower	Upper	
228	100		
229	19.2	0.0	49.8
226	24.3	0.0	57.5



#90
Chrysene
Concen: 7.68 ppb
RT: 12.192 min Scan# 2061
Delta R.T. 0.000 min
Lab File: z95254.D
Acq: 8 Sep 2014 11:55 pm

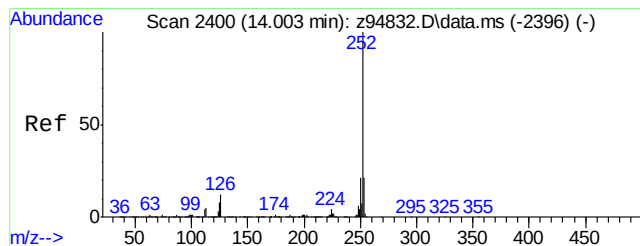
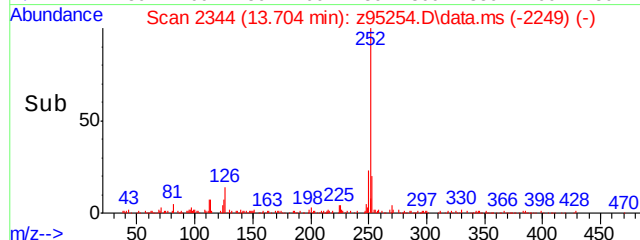
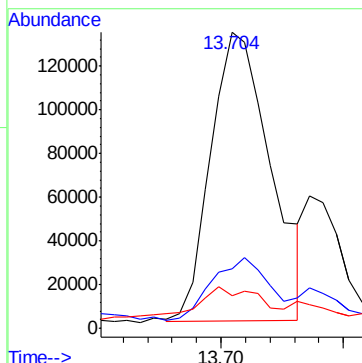
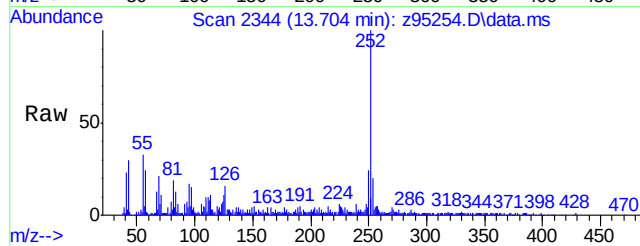
Tgt Ion:	228	Resp:	223731
Ion Ratio	Lower	Upper	
228	100		
226	24.2	0.0	59.4
229	19.4	0.0	49.7





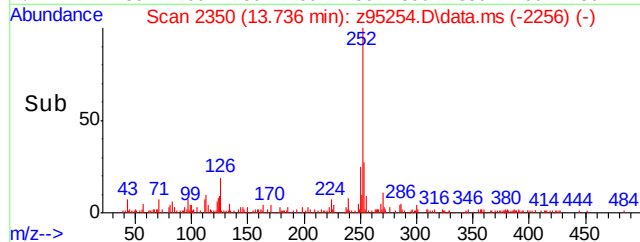
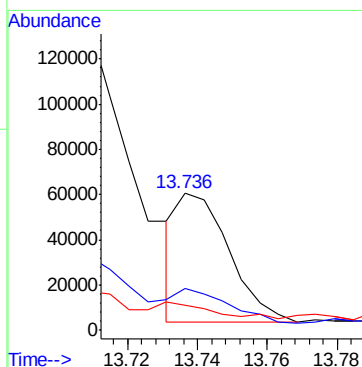
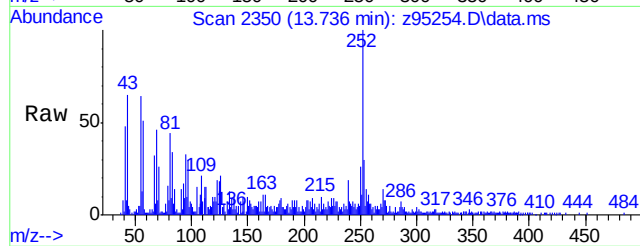
#94
Benzo[b]fluoranthene
Concen: 6.68 ppb
RT: 13.704 min Scan# 2344
Delta R.T. 0.006 min
Lab File: z95254.D
Acq: 8 Sep 2014 11:55 pm

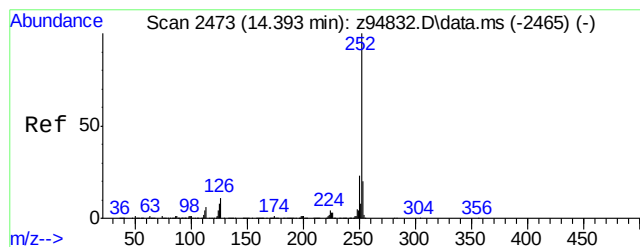
Tgt Ion	Ratio	Lower	Upper
252	100		
253	17.1	0.0	52.2
125	5.3	0.0	36.1



#95
Benzo[k]fluoranthene
Concen: 1.80 ppb
RT: 13.736 min Scan# 2350
Delta R.T. 0.000 min
Lab File: z95254.D
Acq: 8 Sep 2014 11:55 pm

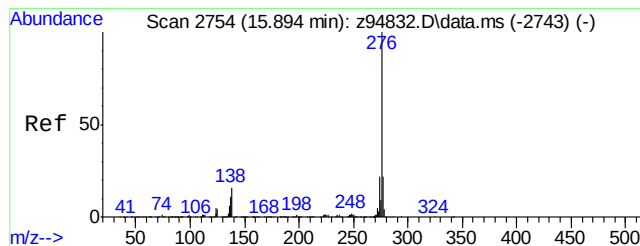
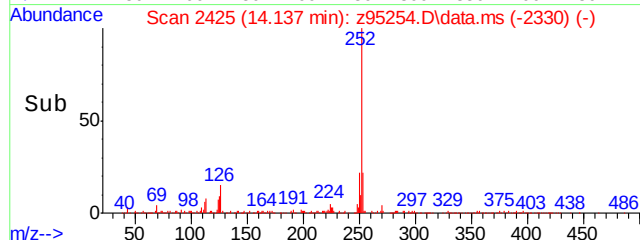
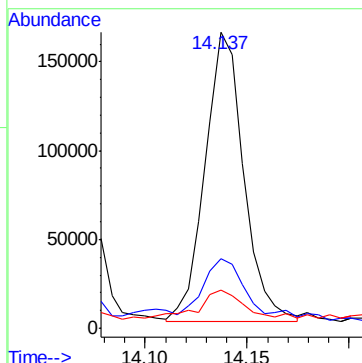
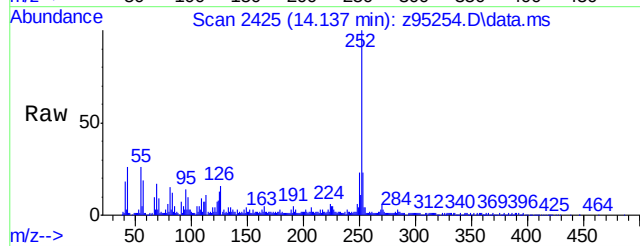
Tgt Ion	Ratio	Lower	Upper
252	100		
253	28.4	0.0	50.8
125	4.0	0.0	36.8





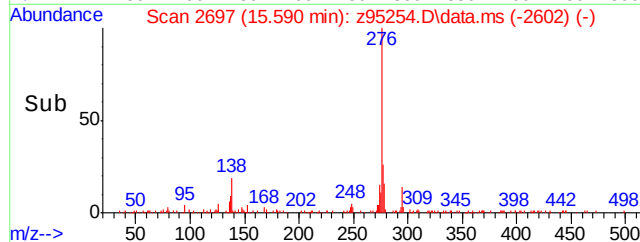
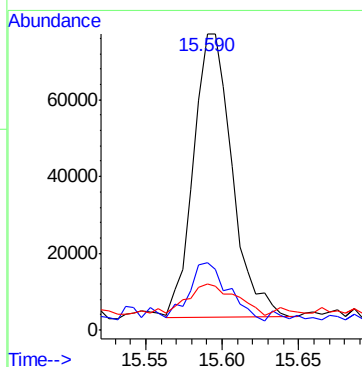
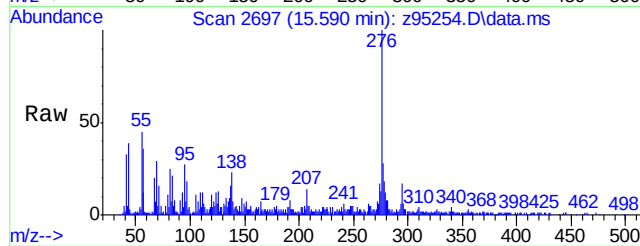
#96
Benzo[a]pyrene
Concen: 7.16 ppb
RT: 14.137 min Scan# 2425
Delta R.T. 0.006 min
Lab File: z95254.D
Acq: 8 Sep 2014 11:55 pm

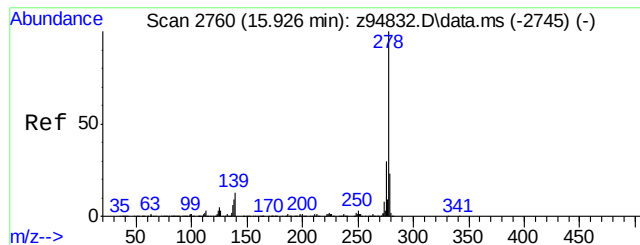
Tgt Ion:	252	Resp:	213781
Ion Ratio	Lower	Upper	
252	100		
253	19.2	0.0	51.8
125	8.9	0.0	36.8



#97
Indeno[1,2,3-cd]pyrene
Concen: 4.33 ppb
RT: 15.590 min Scan# 2697
Delta R.T. 0.006 min
Lab File: z95254.D
Acq: 8 Sep 2014 11:55 pm

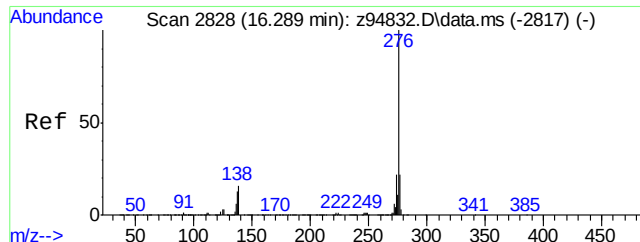
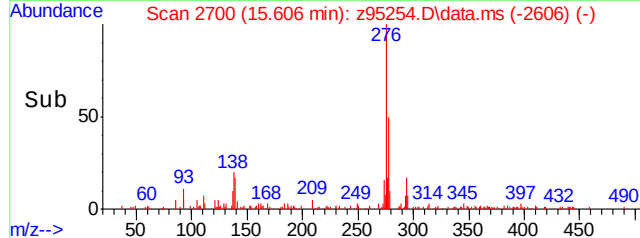
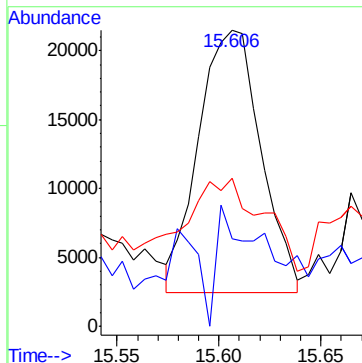
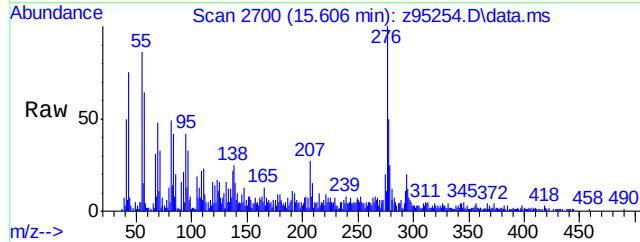
Tgt Ion:	276	Resp:	129162
Ion Ratio	Lower	Upper	
276	100		
138	19.3	0.0	45.0
137	10.3	0.0	40.0





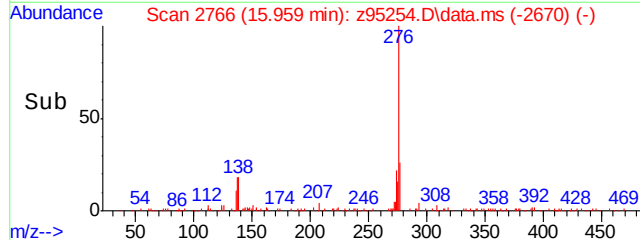
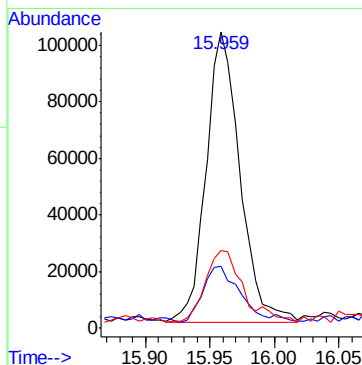
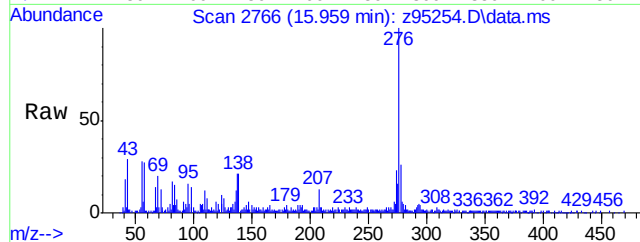
#99
Dibenzo[a,h]anthracene
Concen: 1.38 ppb
RT: 15.606 min Scan# 2700
Delta R.T. 0.000 min
Lab File: z95254.D
Acq: 8 Sep 2014 11:55 pm

Tgt Ion	Ratio	Lower	Upper
278	100		
139	11.8	0.0	42.1
279	30.8	0.0	53.7



#101
Benzo[g,h,i]perylene
Concen: 6.31 ppb
RT: 15.959 min Scan# 2766
Delta R.T. 0.011 min
Lab File: z95254.D
Acq: 8 Sep 2014 11:55 pm

Tgt Ion	Ratio	Lower	Upper
276	100		
138	18.5	0.0	44.7
277	25.0	0.0	54.5



Manual Integration Approval Summary

Sample Number: JB75844-2

Method: SW846 8270D

Lab FileID: Z95254.D

Analyst approved: 09/09/14 10:13 Andrew Lee Smith

Injection Time: 09/08/14 23:55

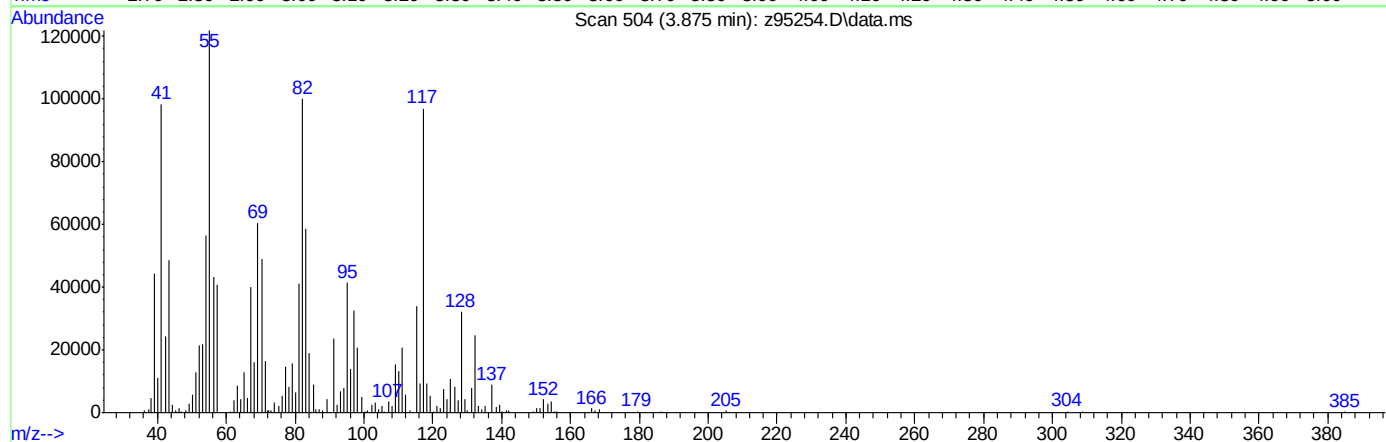
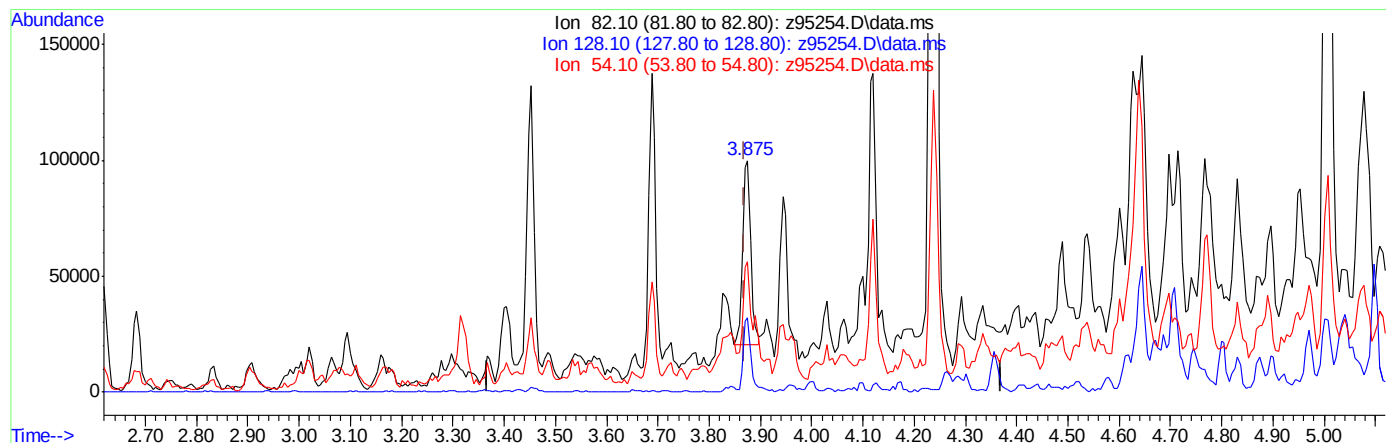
Supervisor approved: 09/09/14 10:29 Nina Pandya

Parameter	CAS	Sig#	R.T. (min.)	Reason
Nitrobenzene-d5	4165-60-0		3.87	Poor instrument integration

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\ez4729\
 Data File : z95254.D
 Acq On : 8 Sep 2014 11:55 pm
 Operator : saraw
 Sample : jb75844-2
 Misc : op77866,ez4729,30.2,,,5
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 09 08:01:22 2014
 Quant Method : C:\MSDCHEM\1\METHODS\MZ4711.M
 Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
 QLast Update : Tue Sep 09 07:58:17 2014
 Response via : Initial Calibration



(25) Nitrobenzene-d5 (S)

3.875min (+0.006) 10.10ppb m

response 86945

Ion	Exp%	Act%
82.10	100	100
128.10	39.60	32.15
54.10	101.50	56.40#
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P1697\
 Data File : 2p40509.D
 Acq On : 9 Sep 2014 10:47 am
 Operator : samtap
 Sample : jb75844-3
 Misc : op77866,e2p1697,32.6,,,5,5
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 09 11:07:29 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M2P1691.M
 Quant Title : Semi Volatile Extractables by GC/MS
 QLast Update : Fri Sep 05 20:04:39 2014
 Response via : Initial Calibration

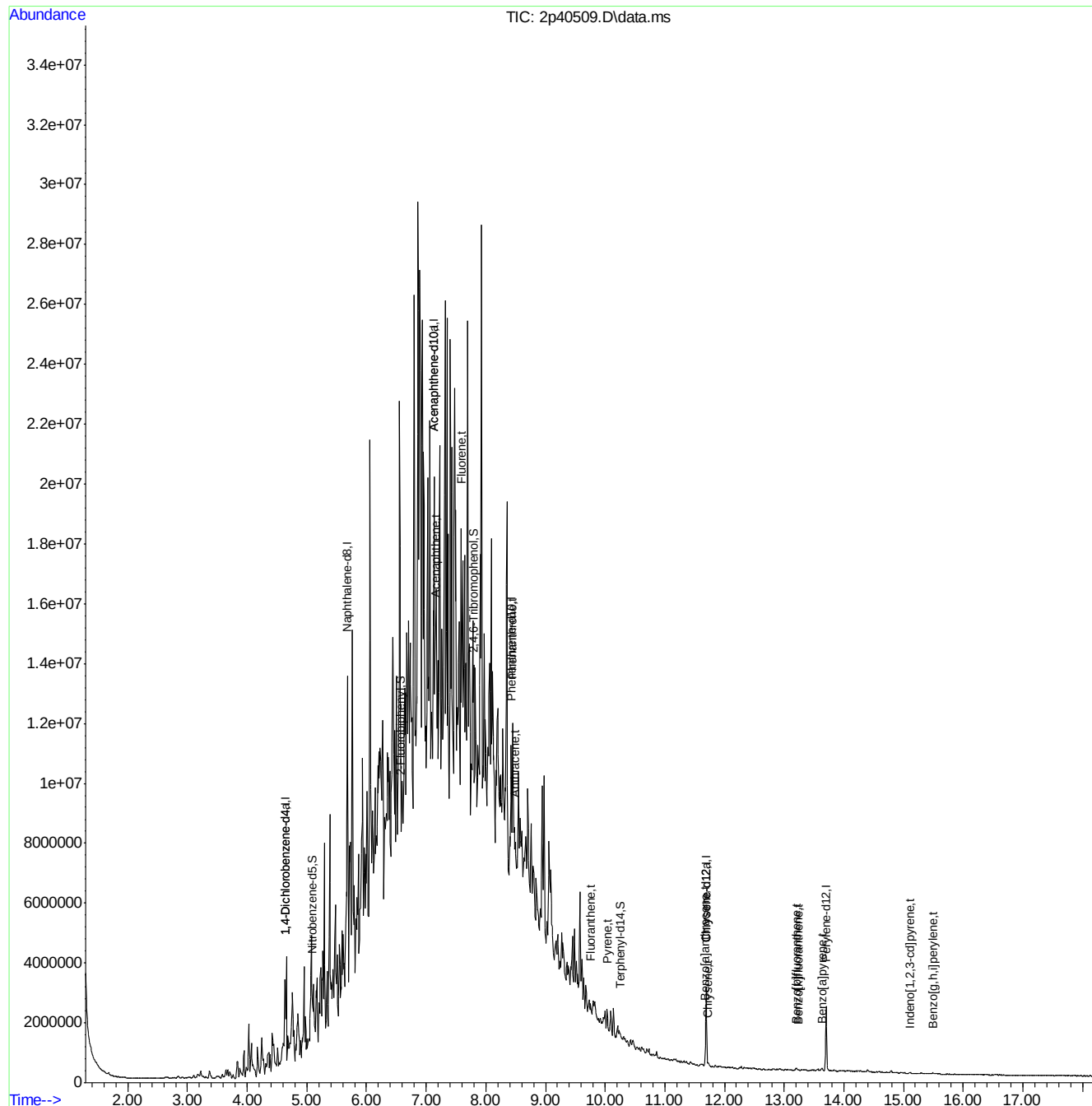
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.635	152	310733	40.00	ppb	-0.01
24) Naphthalene-d8	5.683	136	1189831	40.00	ppb	-0.01
47) Acenaphthene-d10	7.133	164	785007	40.00	ppb	0.00
69) Phenanthrene-d10	8.422	188	1270232	40.00	ppb	0.00
83) Chrysene-d12	11.695	240	1027634	40.00	ppb	-0.02
92) Perylene-d12	13.706	264	878341	40.00	ppb	-0.02
102) 1,4-Dichlorobenzene-d4a	4.635	152	310733	40.00	ppb	-0.01
104) Acenaphthene-d10a	7.133	164	785007	40.00	ppb	0.00
107) Chrysene-d12a	11.695	240	1027634	40.00	ppb	-0.02
System Monitoring Compounds						
5) 2-Fluorophenol	0.000	112	0d	0.00	ppb	
Spiked Amount	50.000	Range 11 - 58	Recovery =	0.00	ppb	0.00%#
8) Phenol-d5	0.000	99	0d	0.00	ppb	
Spiked Amount	50.000	Range 10 - 59	Recovery =	0.00	ppb	0.00%#
25) Nitrobenzene-d5	5.095	82	12179m	1.27	ppb	-0.02
Spiked Amount	50.000	Range 19 - 61	Recovery =	2.54	ppb	2.54%#
51) 2-Fluorobiphenyl	6.577	172	56197	2.20	ppb	-0.01
Spiked Amount	50.000	Range 21 - 58	Recovery =	4.40	ppb	4.40%#
73) 2,4,6-Tribromophenol	7.802	330	8937	2.40	ppb	0.00
Spiked Amount	50.000	Range 12 - 68	Recovery =	4.80	ppb	4.80%#
85) Terphenyl-d14	10.251	244	46074	2.17	ppb	-0.03
Spiked Amount	50.000	Range 16 - 65	Recovery =	4.34	ppb	4.34%#
Target Compounds						
59) Acenaphthene	7.160	153	429639	16.94	ppb	97
66) Fluorene	7.588	166	660525	24.40	ppb	91
77) Phenanthrene	8.449	178	1699764	44.75	ppb	100
78) Anthracene	8.497	178	224988	5.88	ppb	92
81) Fluoranthene	9.759	202	156213	3.55	ppb	96
84) Pyrene	10.032	202	222723	6.08	ppb	92
88) Benzo[a]anthracene	11.679	228	57121	1.75	ppb	95
90) Chrysene	11.727	228	56579	2.01	ppb	90
94) Benzo[b]fluoranthene	13.204	252	37442m	1.24	ppb	
95) Benzo[k]fluoranthene	13.236	252	13341m	0.49	ppb	
96) Benzo[a]pyrene	13.632	252	32773	1.26	ppb	88
97) Indeno[1,2,3-cd]pyrene	15.113	276	15298	0.51	ppb	96
101) Benzo[g,h,i]perylene	15.498	276	22041	0.93	ppb	97

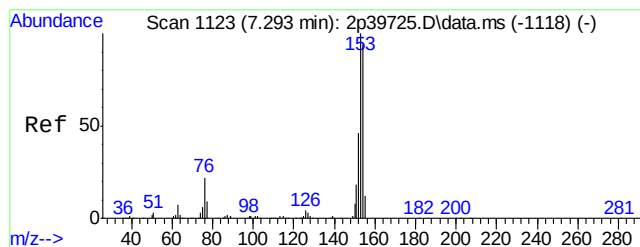
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P1697\
Data File : 2p40509.D
Acq On : 9 Sep 2014 10:47 am
Operator : samtap
Sample : jb75844-3
Misc : op77866,e2p1697,32.6,,,5,5
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 09 11:07:29 2014
Quant Method : C:\MSDCHEM\1\METHODS\M2P1691.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri Sep 05 20:04:39 2014
Response via : Initial Calibration





#59

Acenaphthene

Concen: 16.94 ppb

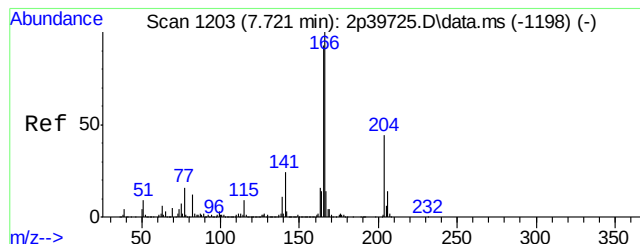
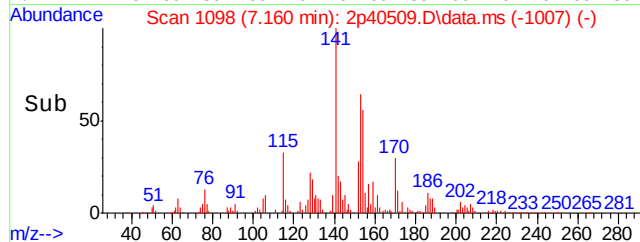
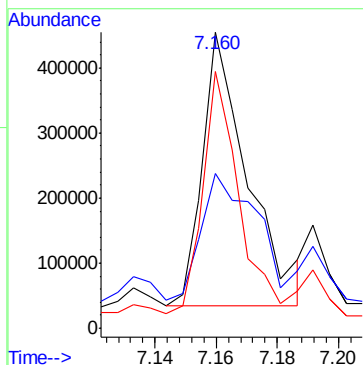
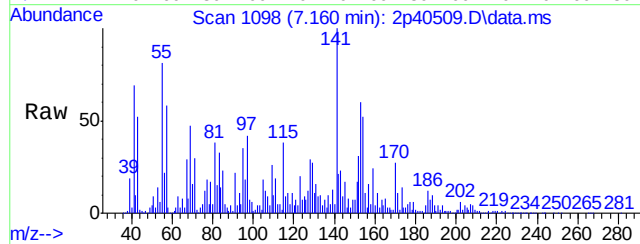
RT: 7.160 min Scan# 1098

Delta R.T. -0.011 min

Lab File: 2p40509.D

Acq: 9 Sep 2014 10:47 am

Tgt Ion	Ratio	Lower	Upper
153	100		
152	44.8	14.1	74.1
154	92.2	58.7	118.7



#66

Fluorene

Concen: 24.40 ppb

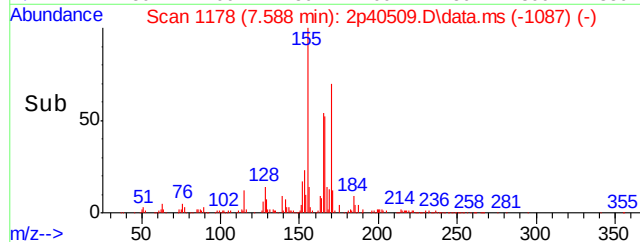
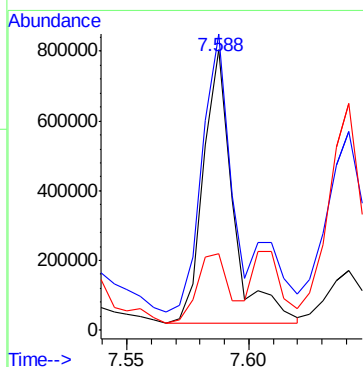
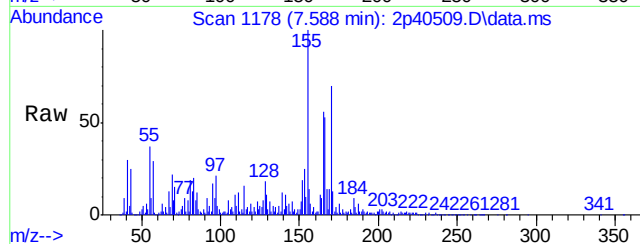
RT: 7.588 min Scan# 1178

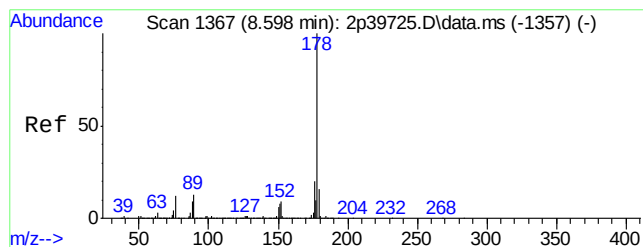
Delta R.T. -0.011 min

Lab File: 2p40509.D

Acq: 9 Sep 2014 10:47 am

Tgt Ion	Ratio	Lower	Upper
166	100		
165	99.3	63.2	123.2
167	22.8	0.0	43.1





#77

Phenanthrene

Concen: 44.75 ppb

RT: 8.449 min Scan# 1339

Delta R.T. -0.011 min

Lab File: 2p40509.D

Acq: 9 Sep 2014 10:47 am

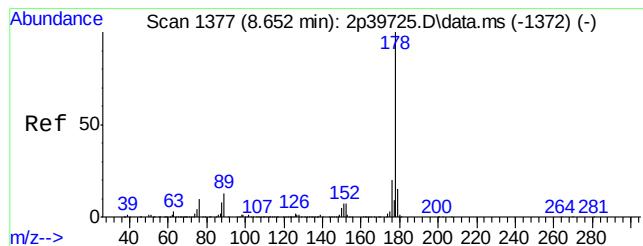
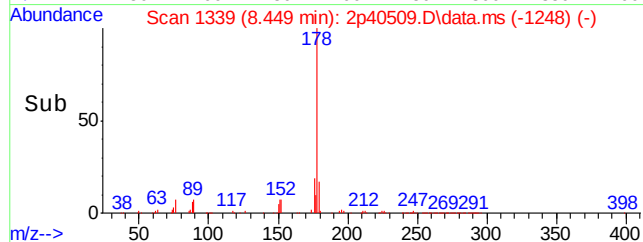
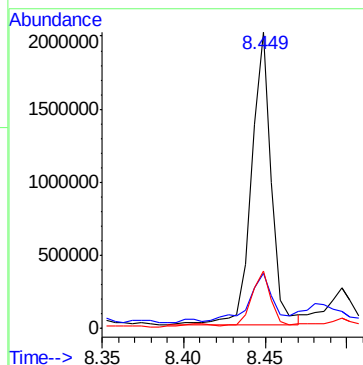
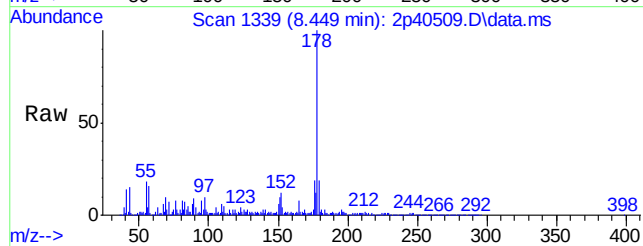
Tgt Ion:178 Resp: 1699764

Ion Ratio Lower Upper

178 100

179 15.3 0.0 45.3

176 18.9 0.0 48.8



#78

Anthracene

Concen: 5.88 ppb

RT: 8.497 min Scan# 1348

Delta R.T. -0.016 min

Lab File: 2p40509.D

Acq: 9 Sep 2014 10:47 am

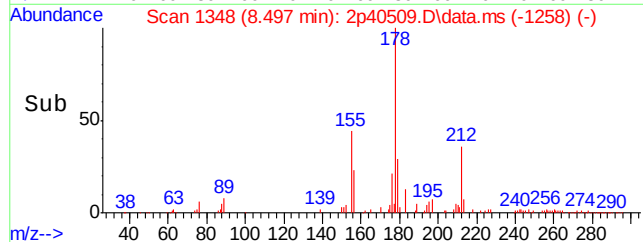
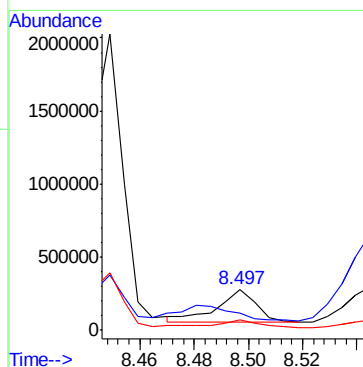
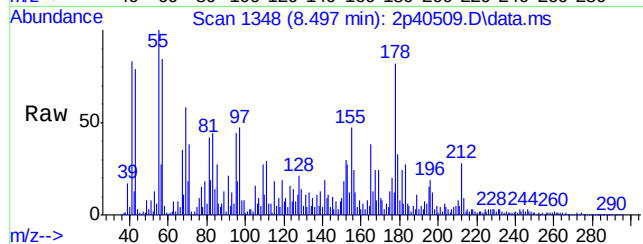
Tgt Ion:178 Resp: 224988

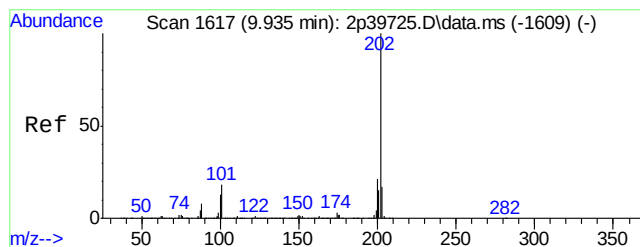
Ion Ratio Lower Upper

178 100

179 11.5 0.0 45.0

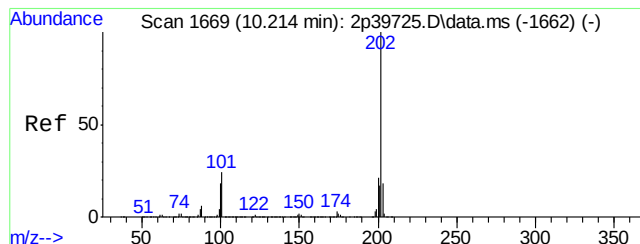
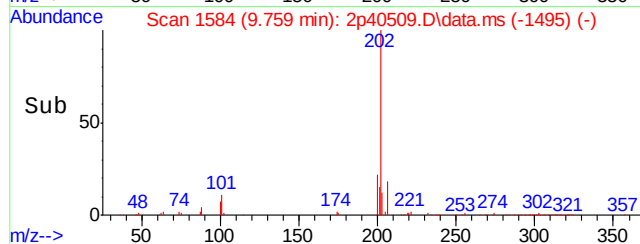
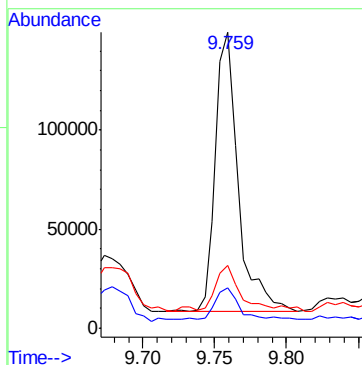
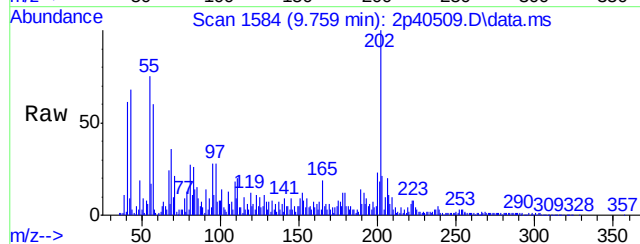
176 21.7 0.0 48.5





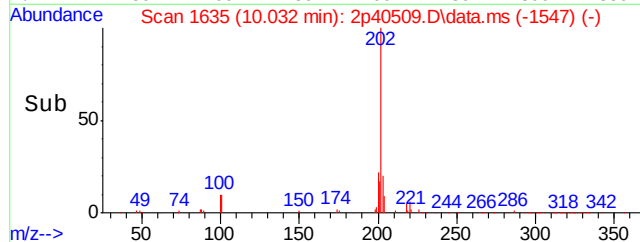
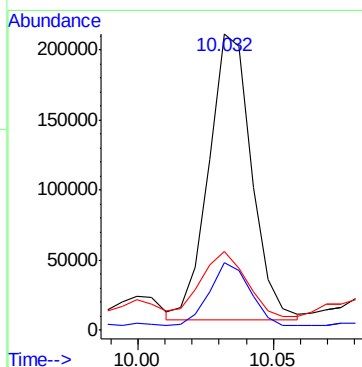
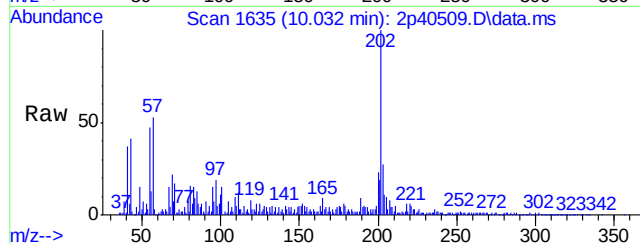
#81
Fluoranthene
Concen: 3.55 ppb
RT: 9.759 min Scan# 1584
Delta R.T. -0.021 min
Lab File: 2p40509.D
Acq: 9 Sep 2014 10:47 am

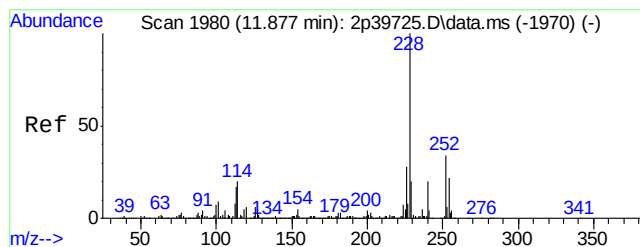
Tgt Ion	Ratio	Lower	Upper
202	100		
101	11.2	0.0	42.5
203	15.5	0.0	47.1



#84
Pyrene
Concen: 6.08 ppb
RT: 10.032 min Scan# 1635
Delta R.T. -0.027 min
Lab File: 2p40509.D
Acq: 9 Sep 2014 10:47 am

Tgt Ion	Ratio	Lower	Upper
202	100		
200	22.5	0.0	50.3
203	22.4	0.0	47.4





#88

Benzo[a]anthracene

Concen: 1.75 ppb

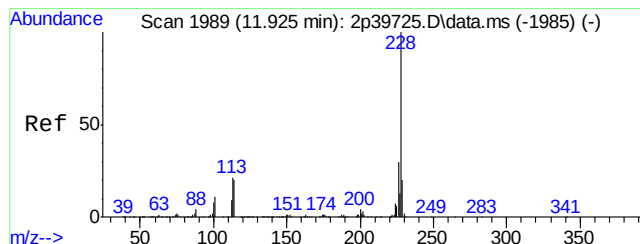
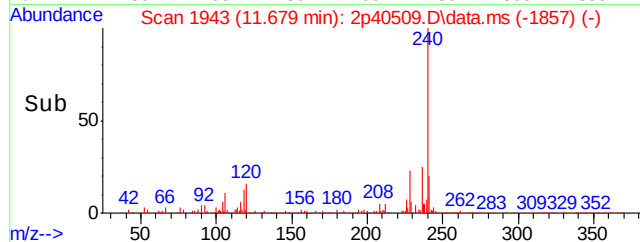
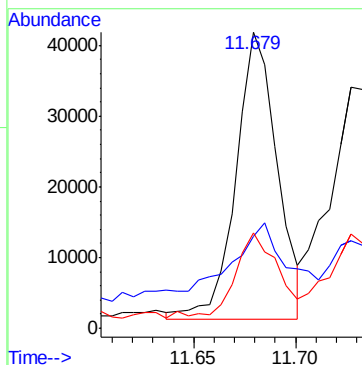
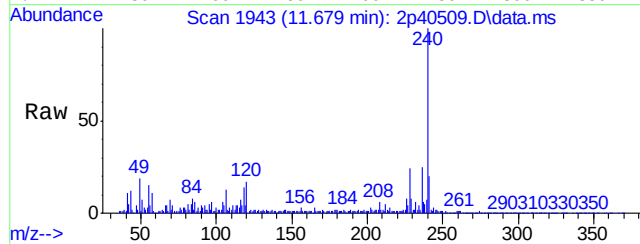
RT: 11.679 min Scan# 1943

Delta R.T. -0.038 min

Lab File: 2p40509.D

Acq: 9 Sep 2014 10:47 am

Tgt Ion:	228	Resp:	57121
Ion Ratio	Lower	Upper	
228	100		
229	16.7	0.0	49.2
226	29.3	0.0	56.9



#90

Chrysene

Concen: 2.01 ppb

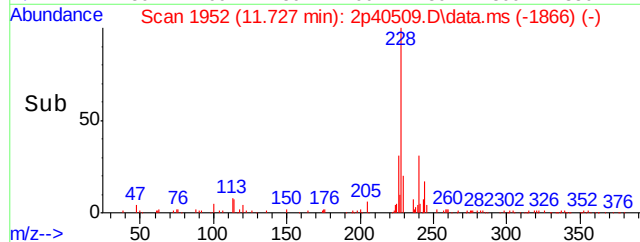
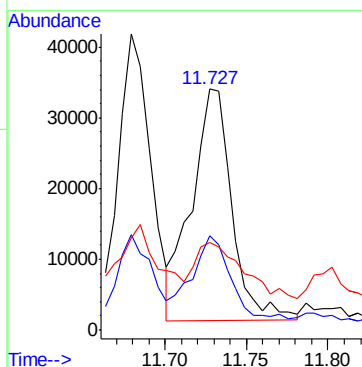
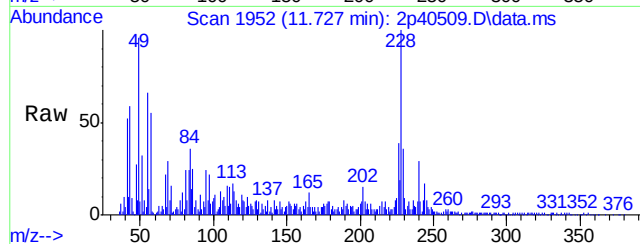
RT: 11.727 min Scan# 1952

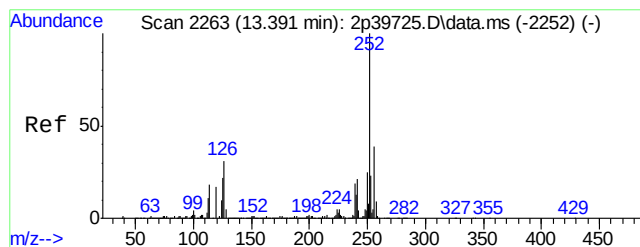
Delta R.T. -0.043 min

Lab File: 2p40509.D

Acq: 9 Sep 2014 10:47 am

Tgt Ion:	228	Resp:	56579
Ion Ratio	Lower	Upper	
228	100		
226	36.7	0.0	59.1
229	20.7	0.0	49.5





#94

Benzo[b]fluoranthene

Concen: 1.24 ppb m

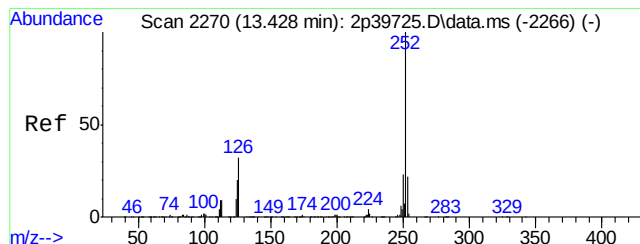
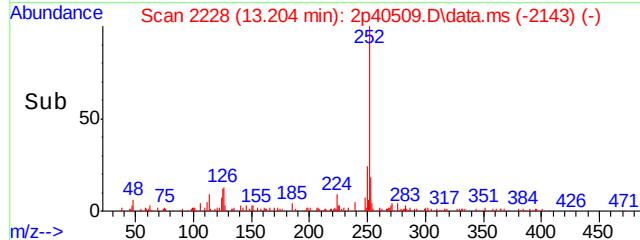
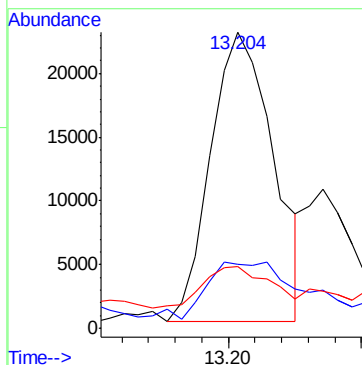
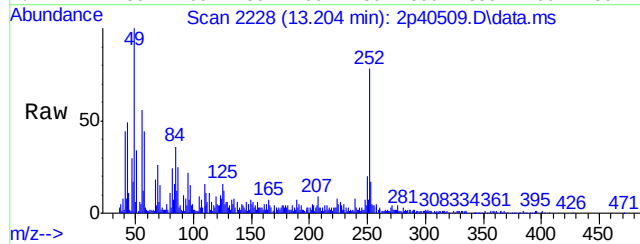
RT: 13.204 min Scan# 2228

Delta R.T. -0.043 min

Lab File: 2p40509.D

Acq: 9 Sep 2014 10:47 am

Tgt Ion:	252	Resp:	37442
Ion Ratio	Lower	Upper	
252	100		
253	21.6	0.0	51.9
125	20.9	0.0	43.8



#95

Benzo[k]fluoranthene

Concen: 0.49 ppb m

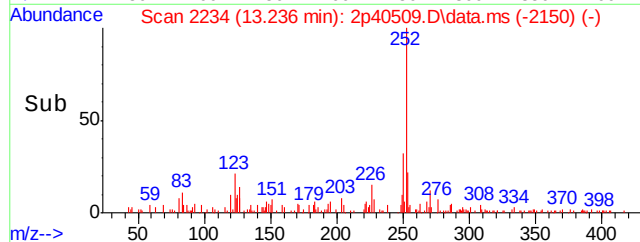
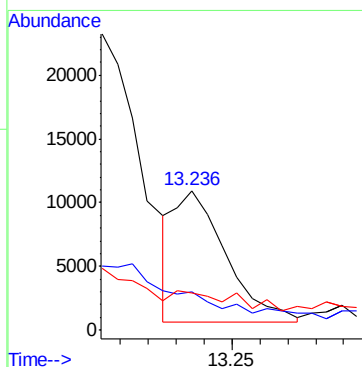
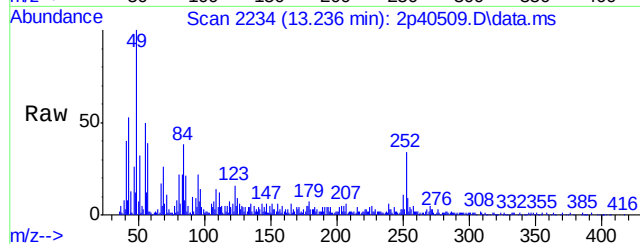
RT: 13.236 min Scan# 2234

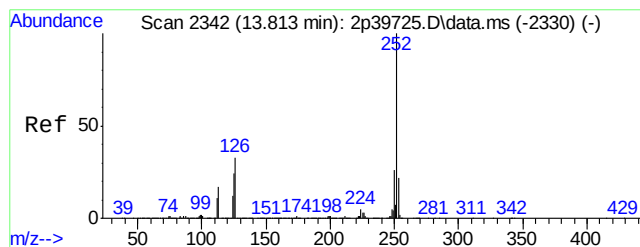
Delta R.T. -0.048 min

Lab File: 2p40509.D

Acq: 9 Sep 2014 10:47 am

Tgt Ion:	252	Resp:	13341
Ion Ratio	Lower	Upper	
252	100		
253	27.4	0.0	51.6
125	26.2	0.0	42.6





#96

Benzo[a]pyrene

Concen: 1.26 ppb

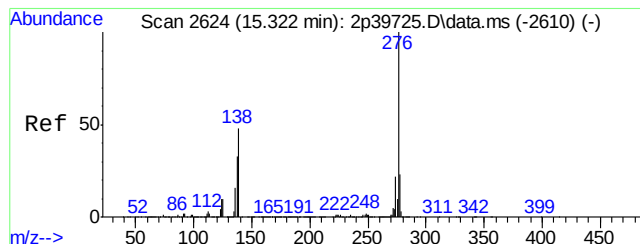
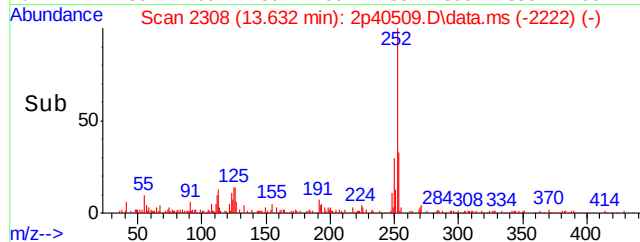
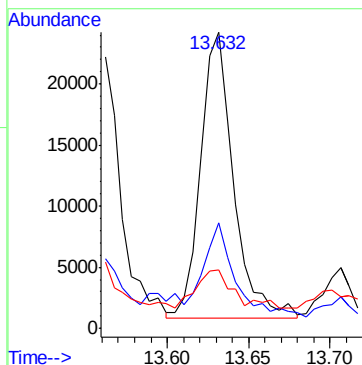
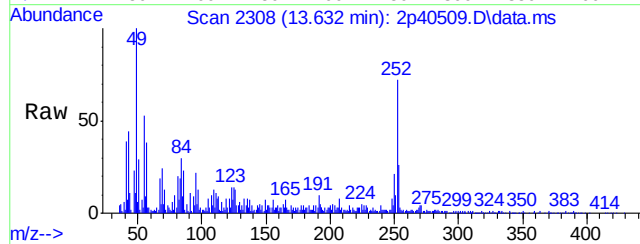
RT: 13.632 min Scan# 2308

Delta R.T. -0.037 min

Lab File: 2p40509.D

Acq: 9 Sep 2014 10:47 am

Tgt Ion:	252	Resp:	32773
Ion Ratio	Lower	Upper	
252	100		
253	30.0	0.0	51.7
125	12.7	0.0	44.8



#97

Indeno[1,2,3-cd]pyrene

Concen: 0.51 ppb

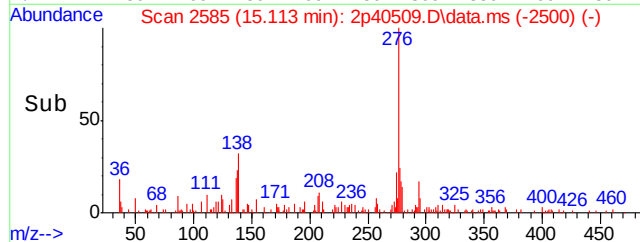
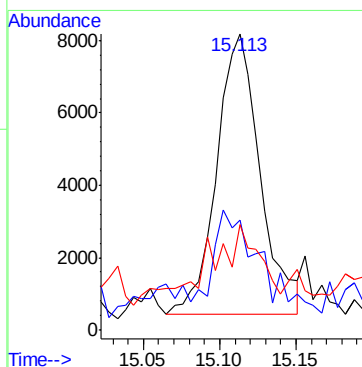
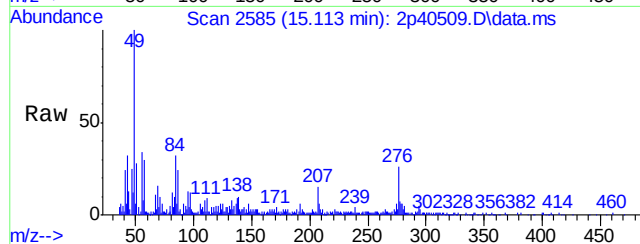
RT: 15.113 min Scan# 2585

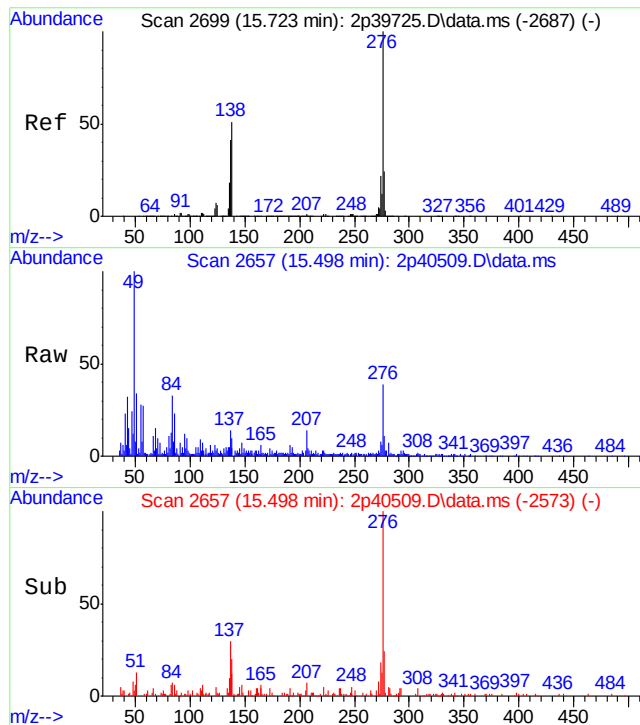
Delta R.T. -0.043 min

Lab File: 2p40509.D

Acq: 9 Sep 2014 10:47 am

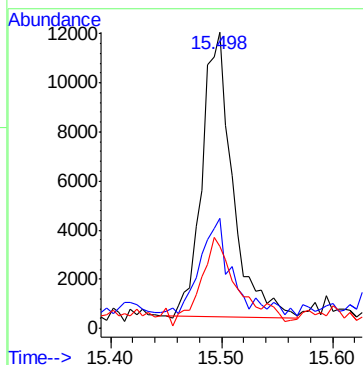
Tgt Ion:	276	Resp:	15298
Ion Ratio	Lower	Upper	
276	100		
138	26.4	0.0	59.9
137	20.6	0.0	51.3





#101
 Benzo[g,h,i]perylene
 Concen: 0.93 ppb
 RT: 15.498 min Scan# 2657
 Delta R.T. -0.048 min
 Lab File: 2p40509.D
 Acq: 9 Sep 2014 10:47 am

Tgt Ion:	276	Resp:	22041
Ion Ratio	Lower	Upper	
276	100		
138	33.7	0.6	60.6
277	23.6	0.0	53.5



Manual Integration Approval Summary

Sample Number: JB75844-3

Method: SW846 8270D

Lab FileID: 2P40509.D

Analyst approved: 09/09/14 11:08 Olga Azarihn

Injection Time: 09/09/14 10:47

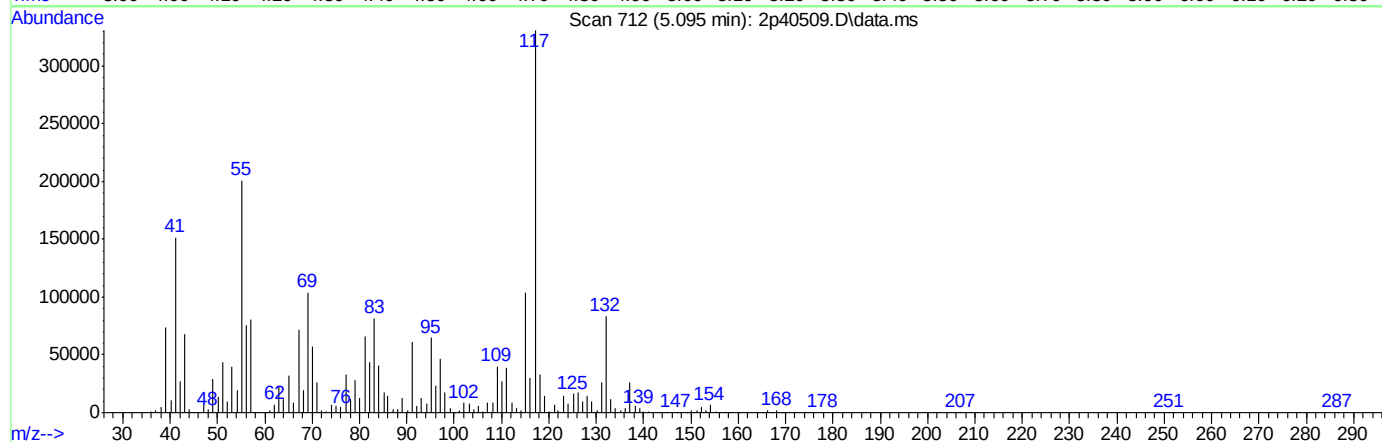
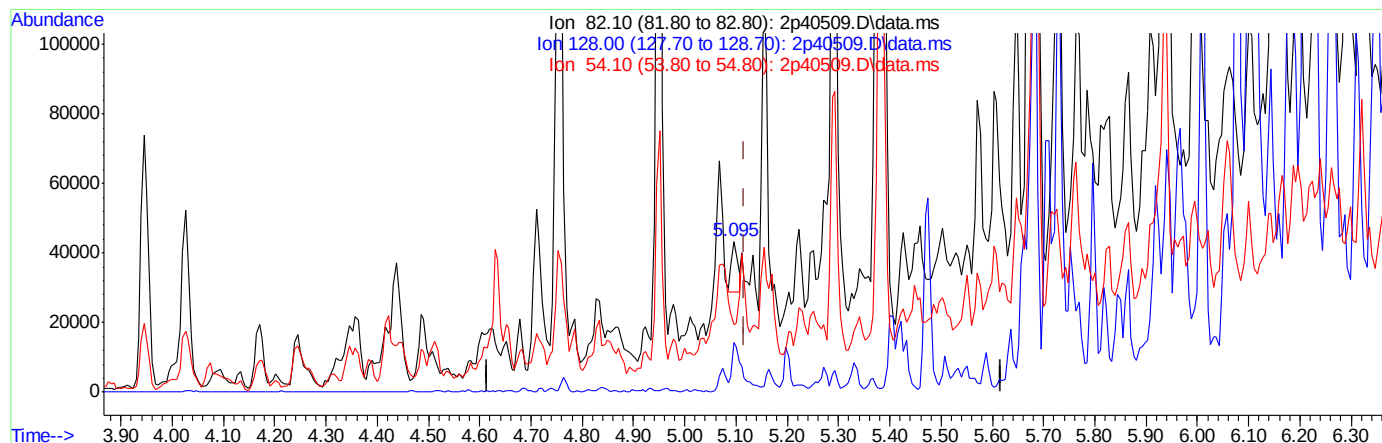
Supervisor approved: 09/09/14 11:30 Nina Pandya

Parameter	CAS	Sig#	R.T. (min.)	Reason
Nitrobenzene-d5	4165-60-0		5.10	Poor instrument integration
Benzo(b)fluoranthene	205-99-2		13.20	Poor instrument integration
Benzo(k)fluoranthene	207-08-9		13.24	Poor instrument integration

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2P1697\
Data File : 2p40509.D
Acq On : 9 Sep 2014 10:47 am
Operator : samtap
Sample : jb75844-3
Misc : op77866,e2p1697,32.6,,,5,5
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 09 11:04:57 2014
Quant Method : C:\MSDCHEM\1\METHODS\M2P1691.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri Sep 05 20:04:39 2014
Response via : Initial Calibration



(25) Nitrobenzene-d5 (S)

5.095min (-0.021) 1.27ppb m

response 12179

Ion	Exp%	Act%
82.10	100	100
128.00	53.10	32.82
54.10	61.00	44.68
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ez4729\
 Data File : z95255.D
 Acq On : 9 Sep 2014 12:20 am
 Operator : saraw
 Sample : jb75844-3
 Misc : op77866,ez4729,32.6,,,5
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Sep 09 08:13:12 2014
 Quant Method : C:\MSDCHEM\1\METHODS\MZ4711.M
 Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
 QLast Update : Tue Sep 09 08:10:07 2014
 Response via : Initial Calibration

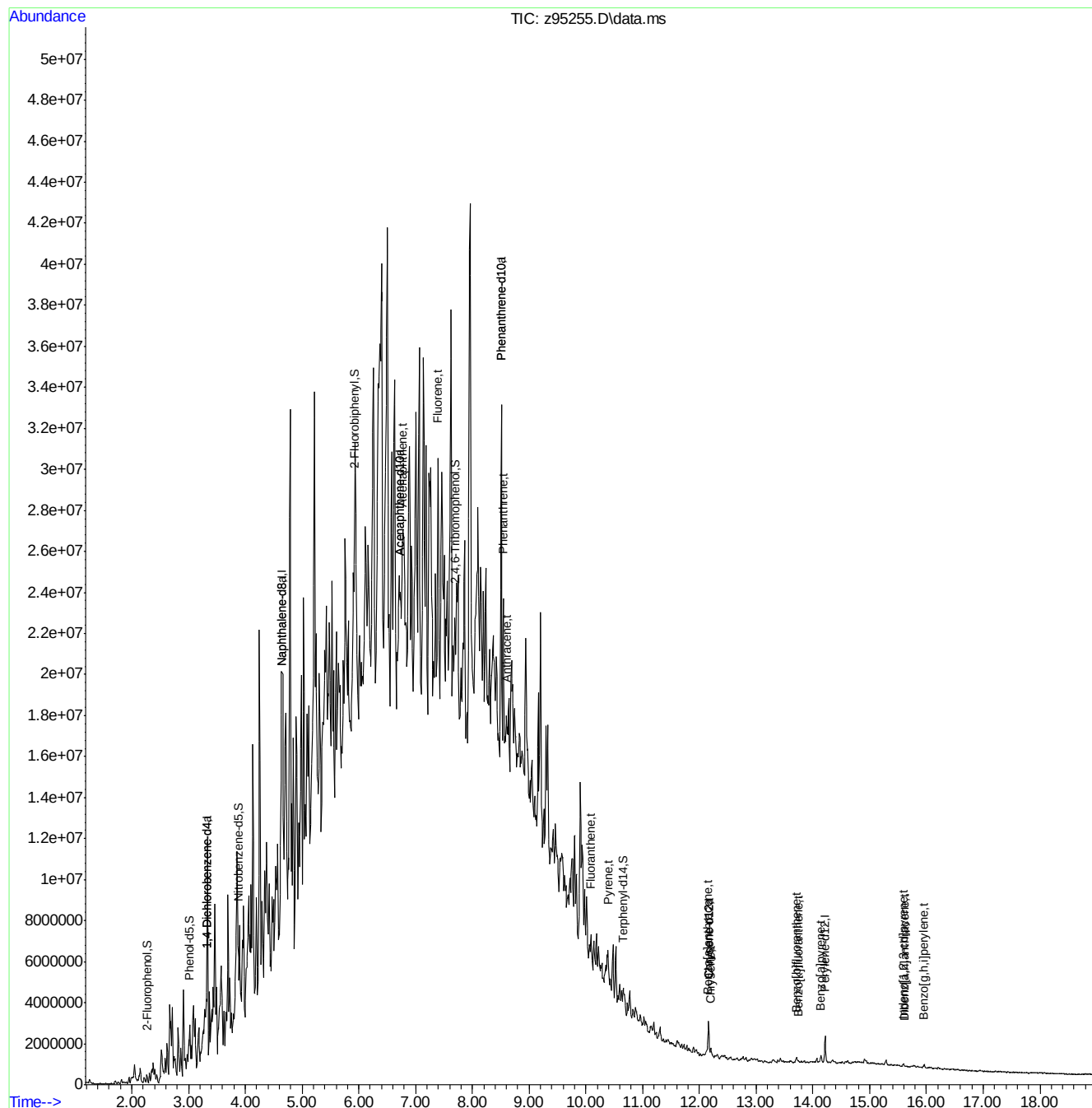
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	3.319	152	148309	40.00	ppb	0.00
24) Naphthalene-d8	4.649	136	573024	40.00	ppb	0.00
47) Acenaphthene-d10	6.727	164	378679	40.00	ppb	0.00
69) Phenanthrene-d10	8.511	188	538701	40.00	ppb	0.00
83) Chrysene-d12	12.166	240	637114	40.00	ppb	0.00
92) Perylene-d12	14.217	264	591311	40.00	ppb	0.00
102) 1,4-Dichlorobenzene-d4a	3.319	152	148309	40.00	ppb	0.00
104) Phenanthrene-d10a	8.511	188	538701	40.00	ppb	0.00
106) Chrysene-d12a	12.166	240	637114	40.00	ppb	0.00
108) Acenaphthene-d10a	6.727	164	378679	40.00	ppb	0.00
110) Naphthalene-d8a	4.649	136	573024	40.00	ppb	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	2.266	112	32974	7.13	ppb	0.00
Spiked Amount 50.000			Recovery	=	14.26%	
8) Phenol-d5	3.020	99	54670	9.42	ppb	0.00
Spiked Amount 50.000			Recovery	=	18.84%	
25) Nitrobenzene-d5	3.874	82	119217	18.94	ppb	0.00
Spiked Amount 50.000			Recovery	=	37.88%	
51) 2-Fluorobiphenyl	5.926	172	121372	8.73	ppb	0.00
Spiked Amount 50.000			Recovery	=	17.46%	
73) 2,4,6-Tribromophenol	7.694	330	21461	9.86	ppb	0.00
Spiked Amount 50.000			Recovery	=	19.72%	
86) Terphenyl-d14	10.659	244	154190	11.06	ppb	0.00
Spiked Amount 50.000			Recovery	=	22.12%	
Target Compounds						
						Qvalue
59) Acenaphthene	6.765	153	595589	48.47	ppb	98
66) Fluorene	7.395	166	1244242	87.53	ppb	95
77) Phenanthrene	8.549	178	3737593	224.04	ppb	98
78) Anthracene	8.608	178	580513	34.46	ppb	72
81) Fluoranthene	10.093	202	425097	21.72	ppb	92
84) Pyrene	10.392	202	688695	32.68	ppb	81
88) Benzo[a]anthracene	12.150	228	183927	8.63	ppb	98
90) Chrysene	12.203	228	196596	9.95	ppb	93
94) Benzo[b]fluoranthene	13.704	252	147392	6.65	ppb	92
95) Benzo[k]fluoranthene	13.741	252	45755	2.15	ppb	99
96) Benzo[a]pyrene	14.137	252	132170	6.75	ppb	91
97) Indeno[1,2,3-cd]pyrene	15.590	276	72241	3.69	ppb	90
99) Dibenz[a,h]anthracene	15.611	278	24282	1.26	ppb	90
101) Benzo[g,h,i]perylene	15.959	276	105746	5.43	ppb	94

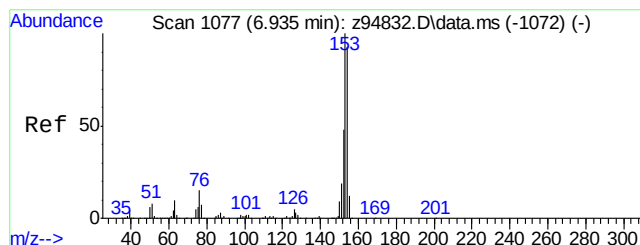
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ez4729\
Data File : z95255.D
Acq On : 9 Sep 2014 12:20 am
Operator : saraw
Sample : jb75844-3
Misc : op77866,ez4729,32.6,,,5
ALS Vial : 11 Sample Multiplier: 1

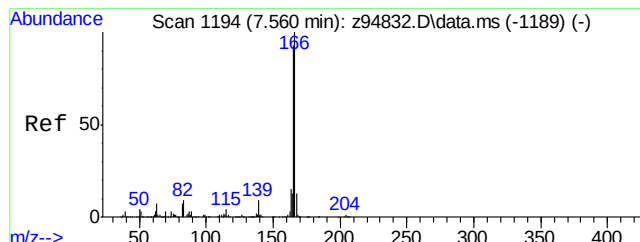
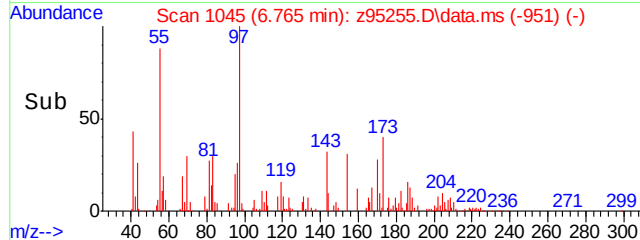
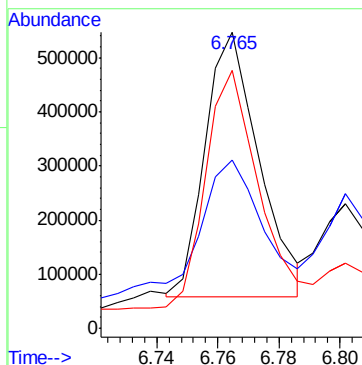
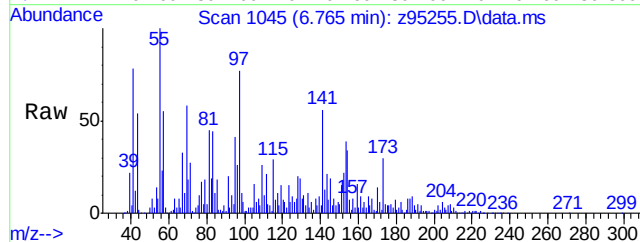
Quant Time: Sep 09 08:13:12 2014
Quant Method : C:\MSDCHEM\1\METHODS\MZ4711.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Tue Sep 09 08:10:07 2014
Response via : Initial Calibration





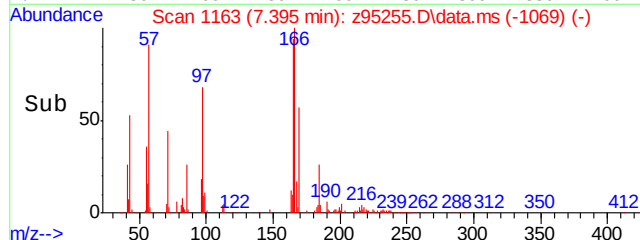
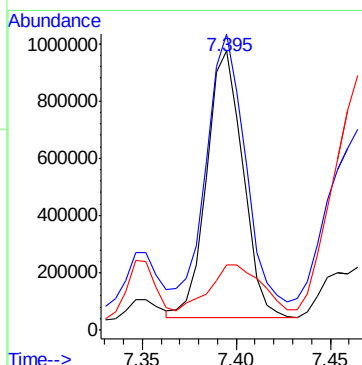
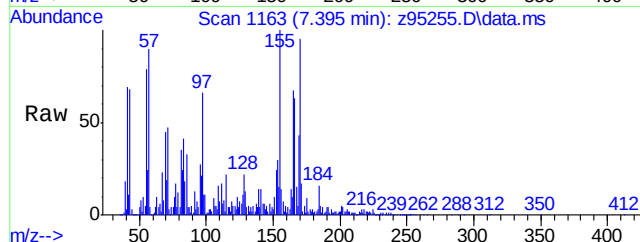
#59
Acenaphthene
Concen: 48.47 ppb
RT: 6.765 min Scan# 1045
Delta R.T. 0.000 min
Lab File: z95255.D
Acq: 9 Sep 2014 12:20 am

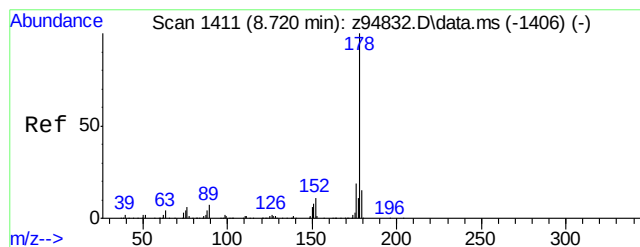
Tgt Ion	Ratio	Lower	Upper
153	100		
152	47.2	16.6	76.6
154	90.8	63.1	123.1



#66
Fluorene
Concen: 87.53 ppb
RT: 7.395 min Scan# 1163
Delta R.T. 0.000 min
Lab File: z95255.D
Acq: 9 Sep 2014 12:20 am

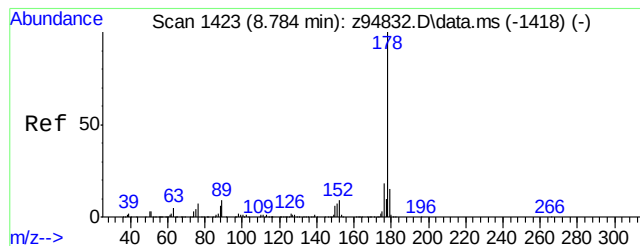
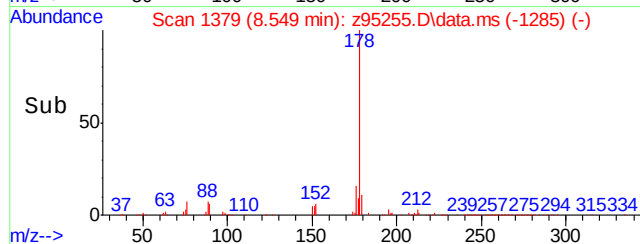
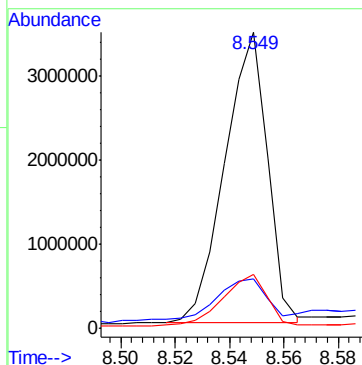
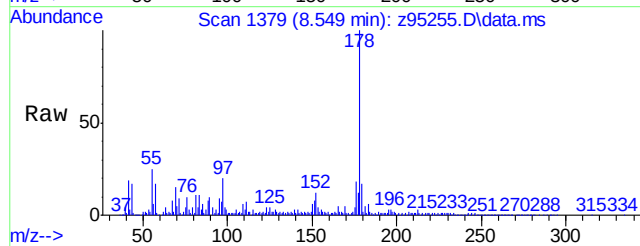
Tgt Ion	Ratio	Lower	Upper
166	100		
165	98.7	64.0	124.0
167	16.5	0.0	43.2





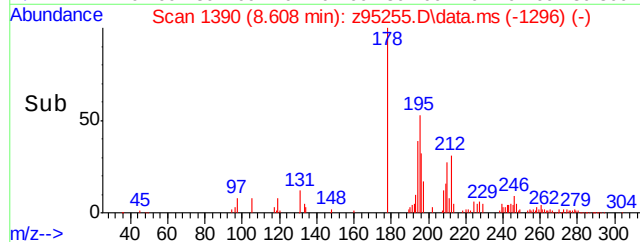
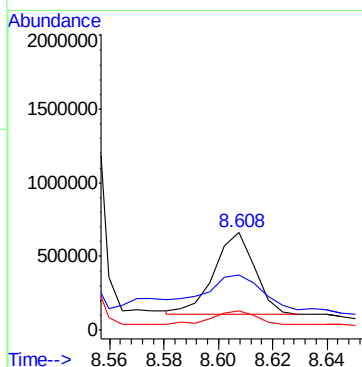
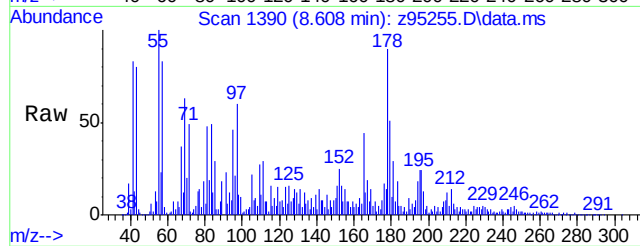
#77
Phenanthrene
Concen: 224.04 ppb
RT: 8.549 min Scan# 1379
Delta R.T. 0.000 min
Lab File: z95255.D
Acq: 9 Sep 2014 12:20 am

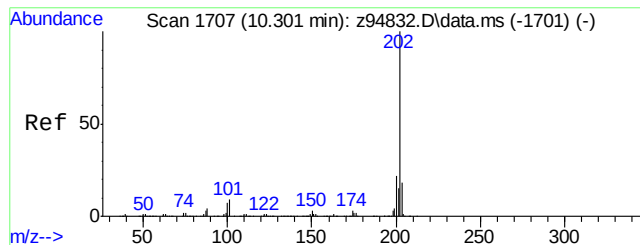
Tgt Ion	Ratio	Lower	Upper
178	100		
179	13.3	0.0	44.0
176	17.5	0.0	48.5



#78
Anthracene
Concen: 34.46 ppb
RT: 8.608 min Scan# 1390
Delta R.T. 0.000 min
Lab File: z95255.D
Acq: 9 Sep 2014 12:20 am

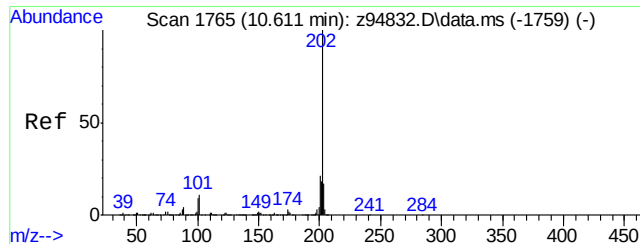
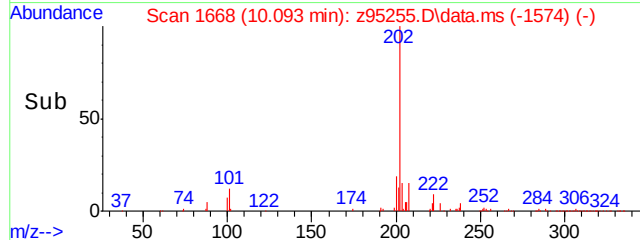
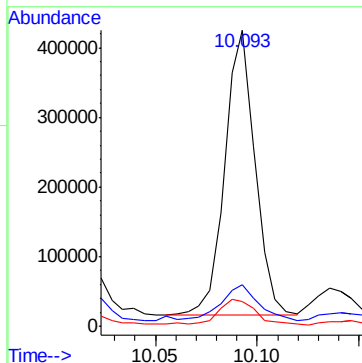
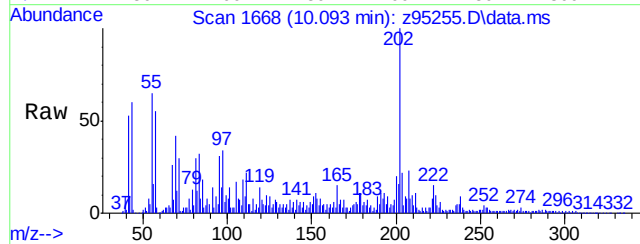
Tgt Ion	Ratio	Lower	Upper
178	100		
179	37.9	0.0	44.9
176	15.5	0.0	48.4





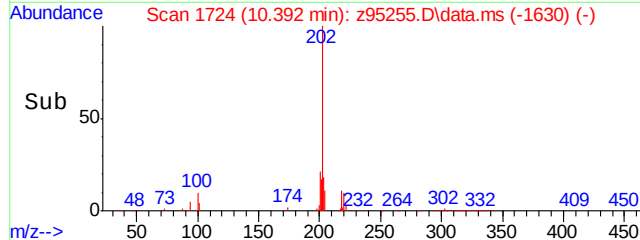
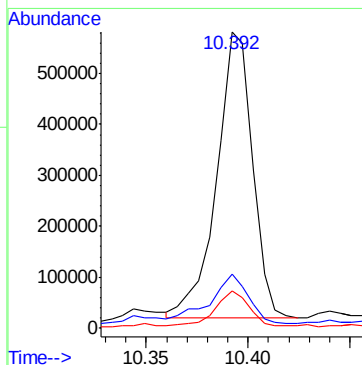
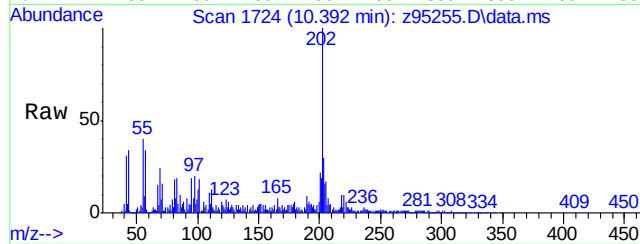
#81
Fluoranthene
Concen: 21.72 ppb
RT: 10.093 min Scan# 1668
Delta R.T. 0.000 min
Lab File: z95255.D
Acq: 9 Sep 2014 12:20 am

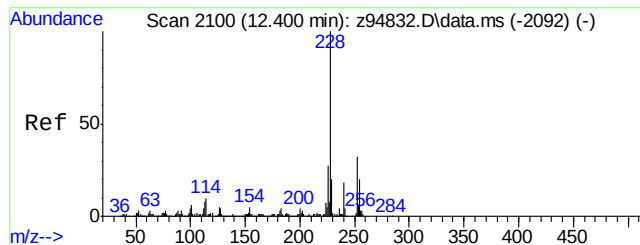
Tgt Ion	Ratio	Lower	Upper
202	100		
101	11.9	0.0	38.1
100	7.7	0.0	36.3



#84
Pyrene
Concen: 32.68 ppb
RT: 10.392 min Scan# 1724
Delta R.T. 0.000 min
Lab File: z95255.D
Acq: 9 Sep 2014 12:20 am

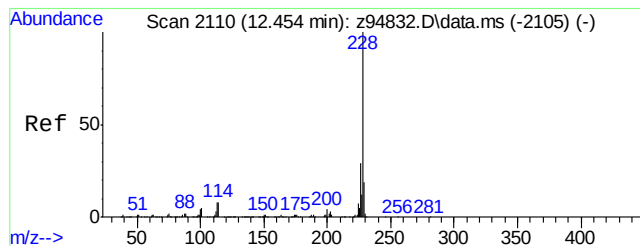
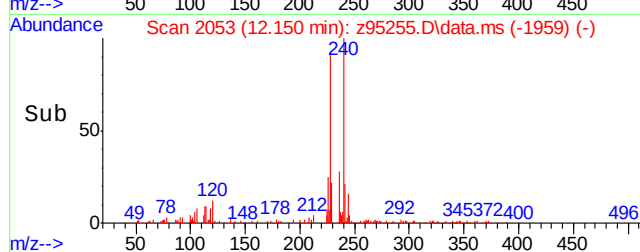
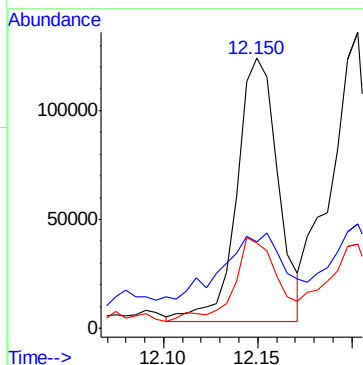
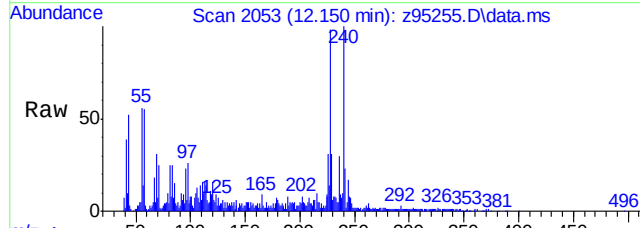
Tgt Ion	Ratio	Lower	Upper
202	100		
101	16.3	0.0	38.3
100	12.3	0.0	37.2





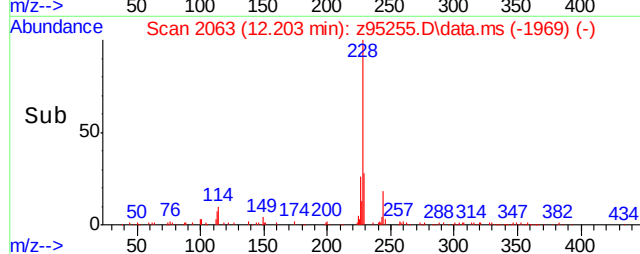
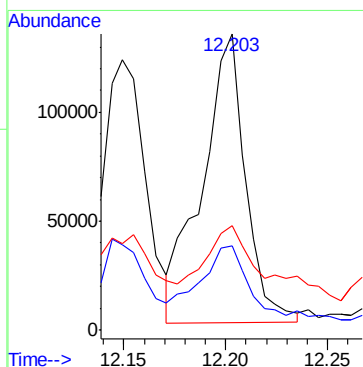
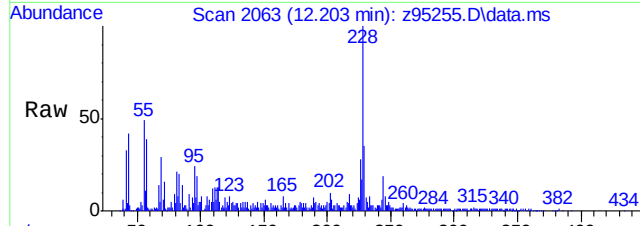
#88
Benzo[a]anthracene
Concen: 8.63 ppb
RT: 12.150 min Scan# 2053
Delta R.T. 0.000 min
Lab File: z95255.D
Acq: 9 Sep 2014 12:20 am

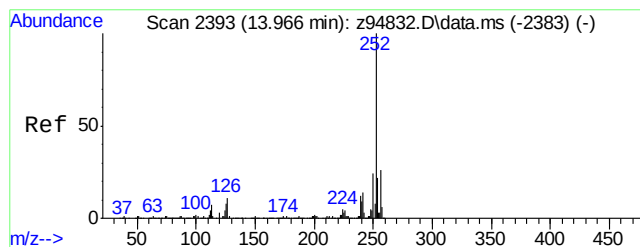
Tgt Ion:	228	Resp:	183927
Ion Ratio	Lower	Upper	
228	100		
229	19.5	0.0	49.8
226	29.0	0.0	57.5



#90
Chrysene
Concen: 9.95 ppb
RT: 12.203 min Scan# 2063
Delta R.T. 0.000 min
Lab File: z95255.D
Acq: 9 Sep 2014 12:20 am

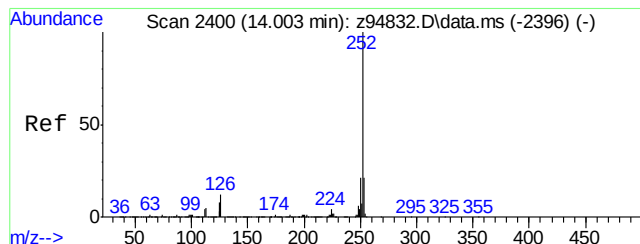
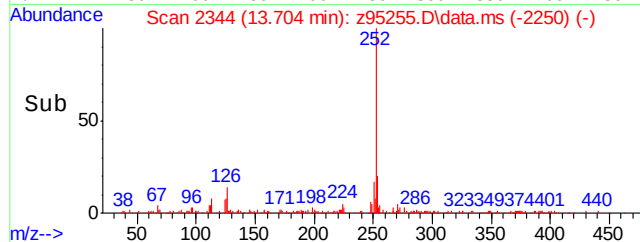
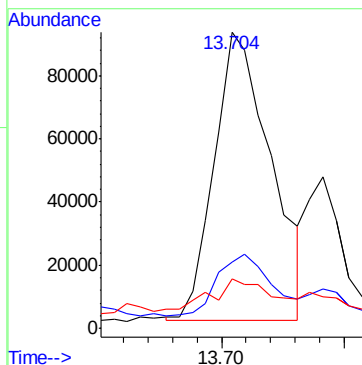
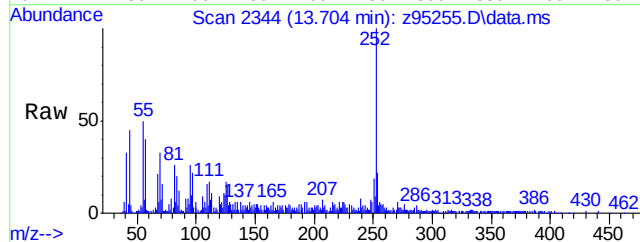
Tgt Ion:	228	Resp:	196596
Ion Ratio	Lower	Upper	
228	100		
226	23.5	0.0	59.4
229	20.3	0.0	49.7





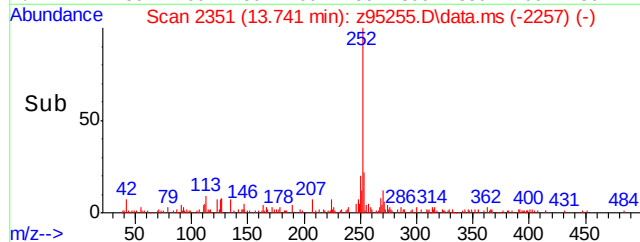
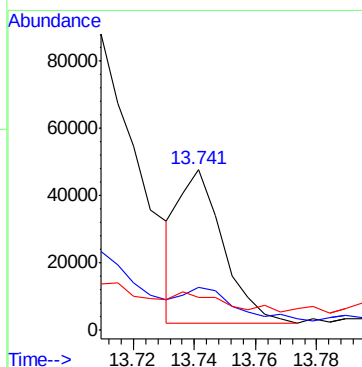
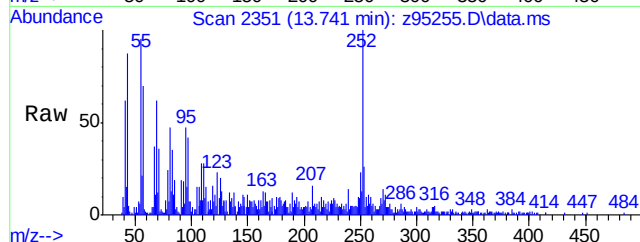
#94
Benzo[b]fluoranthene
Concen: 6.65 ppb
RT: 13.704 min Scan# 2344
Delta R.T. 0.000 min
Lab File: z95255.D
Acq: 9 Sep 2014 12:20 am

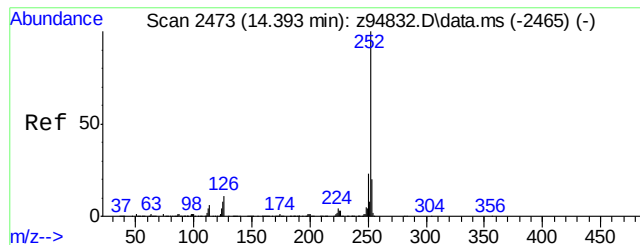
Tgt	Ion:252	Resp:	147392
Ion	Ratio	Lower	Upper
252	100		
253	19.0	0.0	52.2
125	10.7	0.0	36.1



#95
Benzo[k]fluoranthene
Concen: 2.15 ppb
RT: 13.741 min Scan# 2351
Delta R.T. 0.000 min
Lab File: z95255.D
Acq: 9 Sep 2014 12:20 am

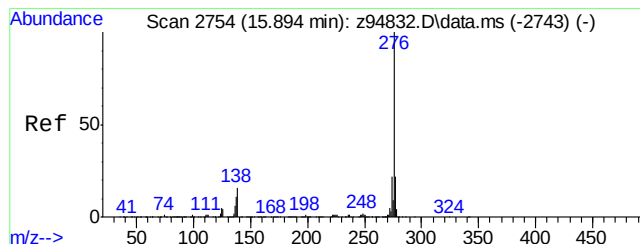
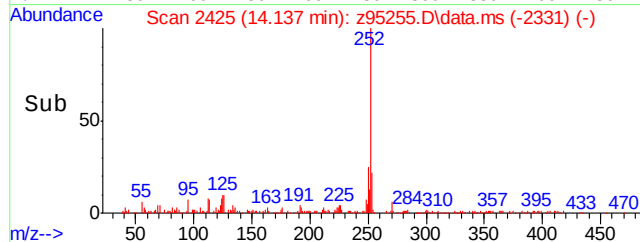
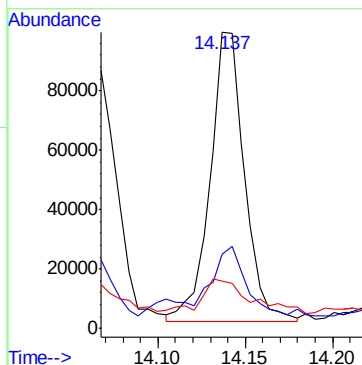
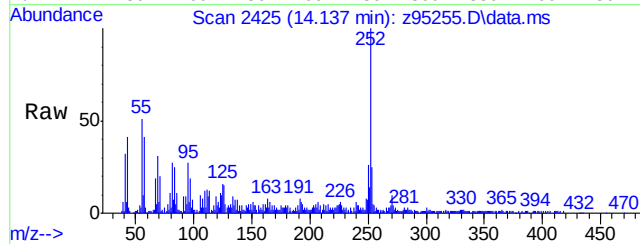
Tgt	Ion:252	Resp:	45755
Ion	Ratio	Lower	Upper
252	100		
253	20.5	0.0	50.8
125	6.7	0.0	36.8





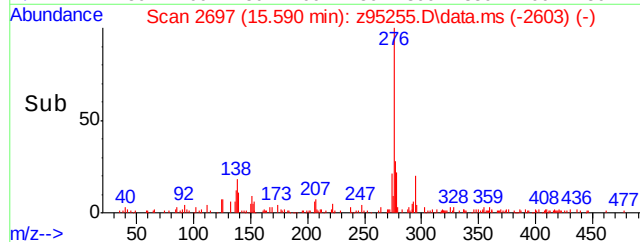
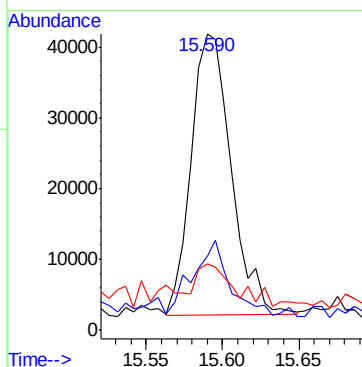
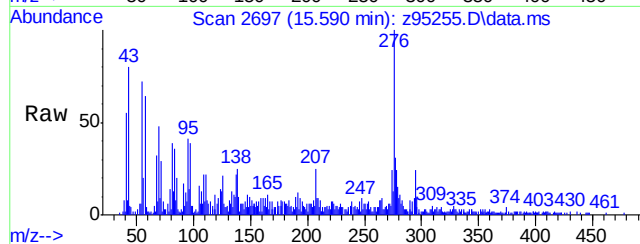
#96
Benzo[a]pyrene
Concen: 6.75 ppb
RT: 14.137 min Scan# 2425
Delta R.T. 0.000 min
Lab File: z95255.D
Acq: 9 Sep 2014 12:20 am

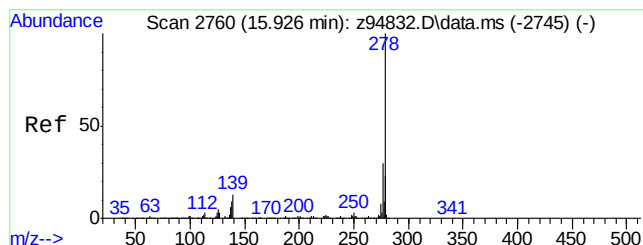
Tgt Ion:	252	Resp:	132170
Ion Ratio	Lower	Upper	
252	100		
253	17.4	0.0	51.8
125	9.8	0.0	36.8



#97
Indeno[1,2,3-cd]pyrene
Concen: 3.69 ppb
RT: 15.590 min Scan# 2697
Delta R.T. 0.000 min
Lab File: z95255.D
Acq: 9 Sep 2014 12:20 am

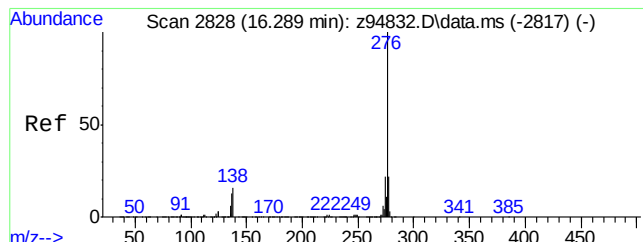
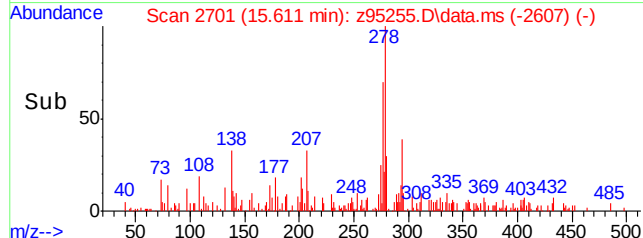
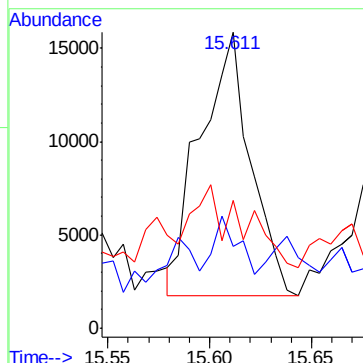
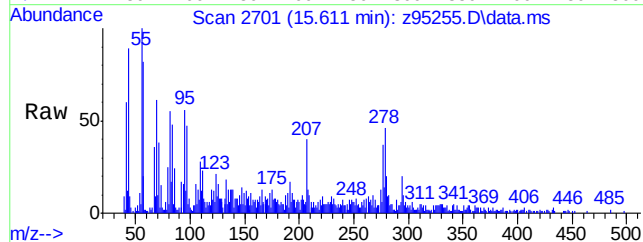
Tgt Ion:	276	Resp:	72241
Ion Ratio	Lower	Upper	
276	100		
138	21.3	0.0	45.0
137	10.8	0.0	40.0





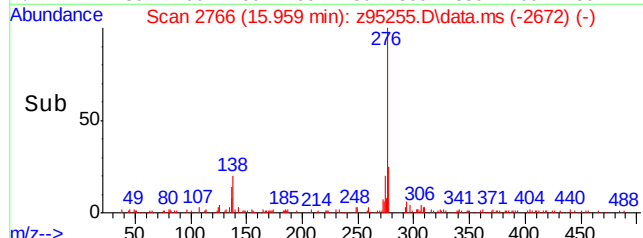
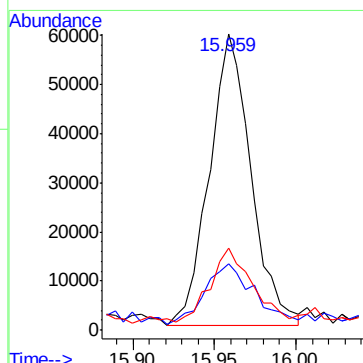
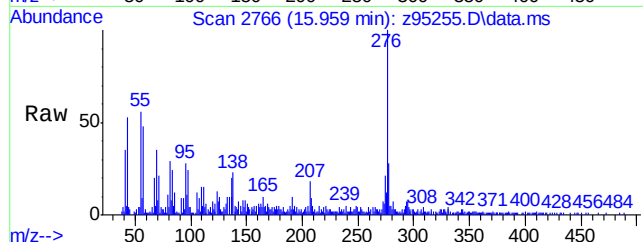
#99
Dibenz[a,h]anthracene
Concen: 1.26 ppb
RT: 15.611 min Scan# 2701
Delta R.T. 0.000 min
Lab File: z95255.D
Acq: 9 Sep 2014 12:20 am

Tgt Ion:	278	Resp:	24282
Ion Ratio	Lower	Upper	
278	100		
139	6.0	0.0	42.1
279	20.6	0.0	53.7



#101
Benzo[g,h,i]perylene
Concen: 5.43 ppb
RT: 15.959 min Scan# 2766
Delta R.T. 0.000 min
Lab File: z95255.D
Acq: 9 Sep 2014 12:20 am

Tgt Ion:	276	Resp:	105746
Ion Ratio	Lower	Upper	
276	100		
138	20.5	0.0	44.7
277	24.0	0.0	54.5



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ez4729\
 Data File : z95256.D
 Acq On : 9 Sep 2014 12:46 am
 Operator : saraw
 Sample : jb75844-4
 Misc : op77866,ez4729,31.0,,,5
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Sep 09 12:15:42 2014
 Quant Method : C:\MSDCHEM\1\METHODS\MZ4711.M
 Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
 QLast Update : Tue Sep 09 08:13:48 2014
 Response via : Initial Calibration

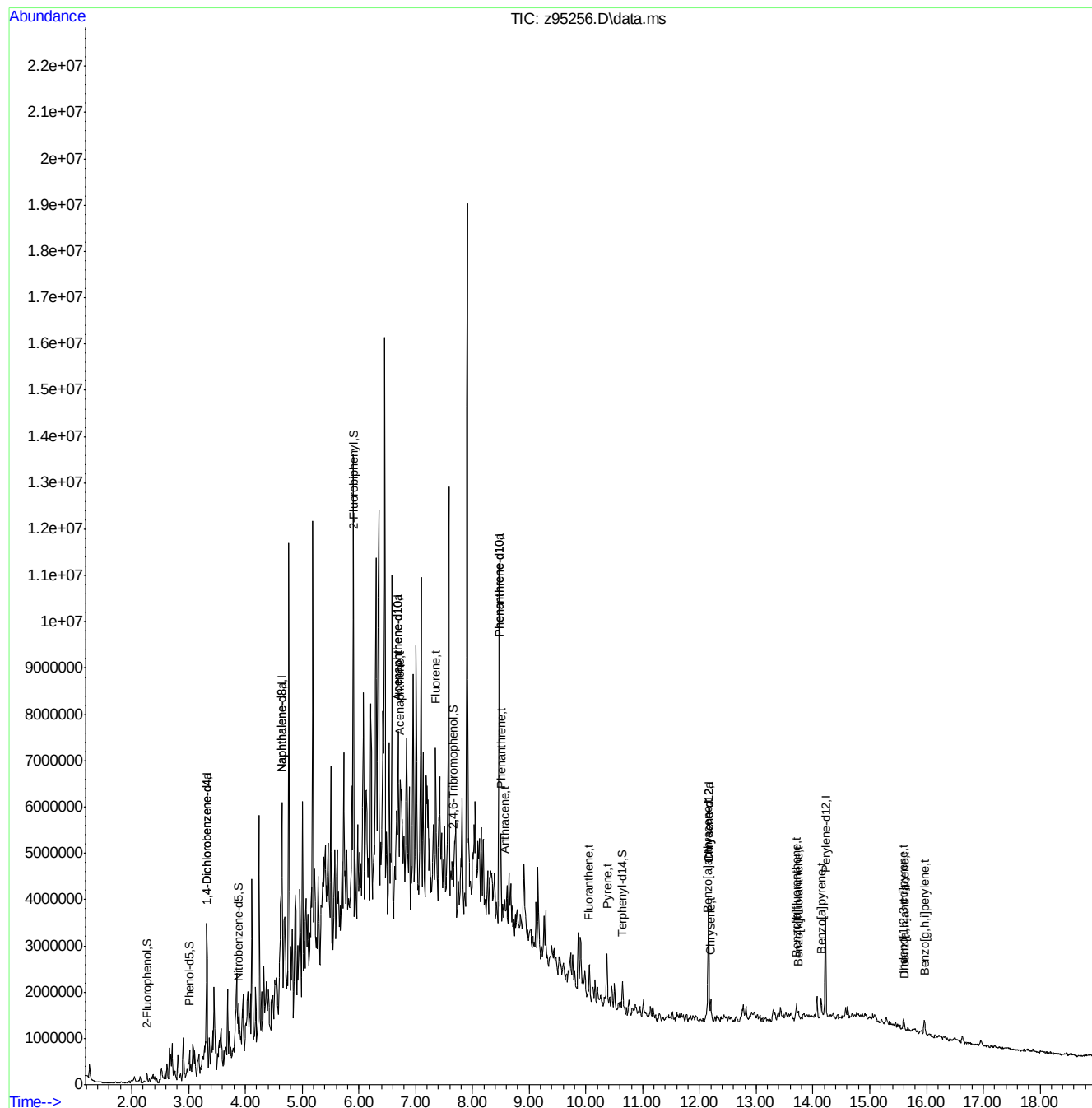
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	3.319	152	225696	40.00	ppb	0.00
24) Naphthalene-d8	4.638	136	841317	40.00	ppb	0.00
47) Acenaphthene-d10	6.689	164	546650	40.00	ppb	0.01
69) Phenanthrene-d10	8.479	188	934714	40.00	ppb	0.01
83) Chrysene-d12	12.160	240	1012671	40.00	ppb	0.00
92) Perylene-d12	14.222	264	972647	40.00	ppb	0.01
102) 1,4-Dichlorobenzene-d4a	3.319	152	225696	40.00	ppb	0.00
104) Phenanthrene-d10a	8.479	188	934714	40.00	ppb	0.01
106) Chrysene-d12a	12.160	240	1012671	40.00	ppb	0.00
108) Acenaphthene-d10a	6.689	164	545765	40.00	ppb	0.01
110) Naphthalene-d8a	4.638	136	841317	40.00	ppb	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	2.266	112	47121	6.70	ppb	0.00
Spiked Amount 50.000			Recovery	=	13.40%	
8) Phenol-d5	3.014	99	68382	7.75	ppb	0.00
Spiked Amount 50.000			Recovery	=	15.50%	
25) Nitrobenzene-d5	3.874	82	83397m	9.03	ppb	0.00
Spiked Amount 50.000			Recovery	=	18.06%	
51) 2-Fluorobiphenyl	5.910	172	149696	7.46	ppb	0.00
Spiked Amount 50.000			Recovery	=	14.92%	
73) 2,4,6-Tribromophenol	7.656	330	24945	6.61	ppb	0.02
Spiked Amount 50.000			Recovery	=	13.22%	
86) Terphenyl-d14	10.643	244	189590	8.56	ppb	0.00
Spiked Amount 50.000			Recovery	=	17.12%	
Target Compounds						
						Qvalue
59) Acenaphthene	6.727	153	96468	5.44	ppb	97
66) Fluorene	7.352	166	187808	9.15	ppb	93
77) Phenanthrene	8.506	178	578264	19.98	ppb	98
78) Anthracene	8.570	178	131825	4.51	ppb	89
81) Fluoranthene	10.060	202	325344	9.58	ppb	92
84) Pyrene	10.370	202	430889	12.86	ppb	86
88) Benzo[a]anthracene	12.149	228	203770	6.02	ppb	97
90) Chrysene	12.197	228	226636	7.21	ppb	91
94) Benzo[b]fluoranthene	13.709	252	180514	4.95	ppb	94
95) Benzo[k]fluoranthene	13.747	252	57542	1.64	ppb	90
96) Benzo[a]pyrene	14.142	252	224554	6.97	ppb	97
97) Indeno[1,2,3-cd]pyrene	15.595	276	108518	3.37	ppb	78
99) Dibenz[a,h]anthracene	15.611	278	50960	1.61	ppb	54
101) Benzo[g,h,i]perylene	15.964	276	198027	6.18	ppb	98

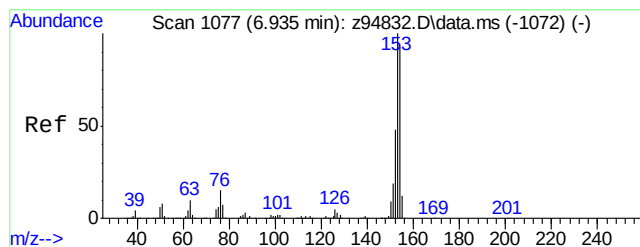
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ez4729\
Data File : z95256.D
Acq On : 9 Sep 2014 12:46 am
Operator : saraw
Sample : jb75844-4
Misc : op77866,ez4729,31.0,,,5
ALS Vial : 12 Sample Multiplier: 1

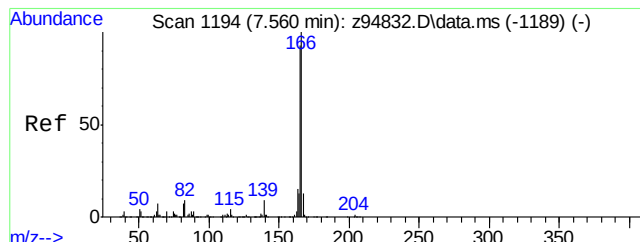
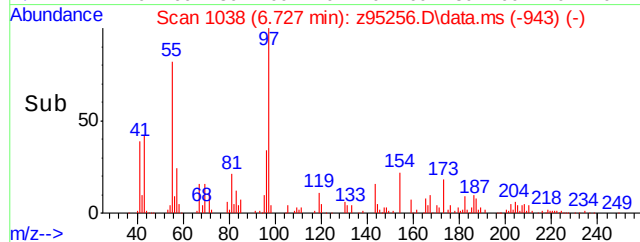
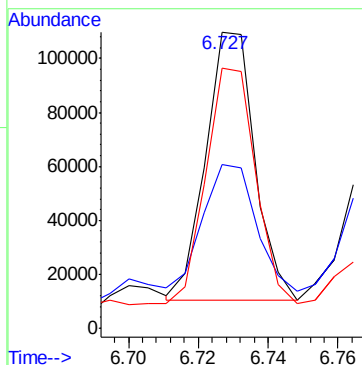
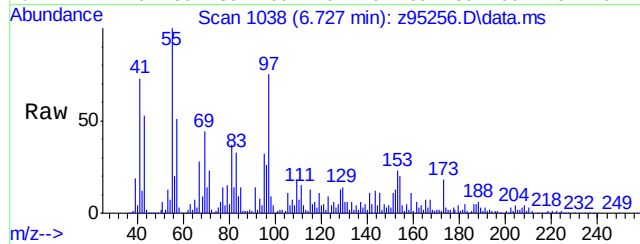
Quant Time: Sep 09 12:15:42 2014
Quant Method : C:\MSDCHEM\1\METHODS\MZ4711.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Tue Sep 09 08:13:48 2014
Response via : Initial Calibration





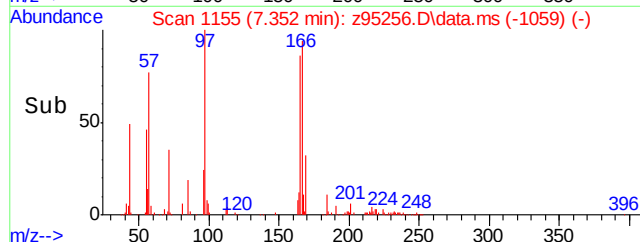
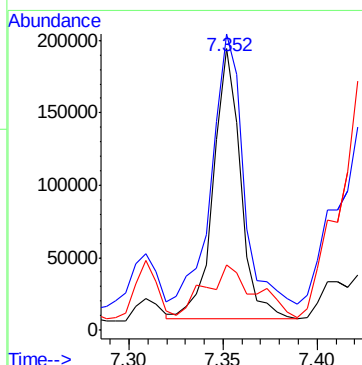
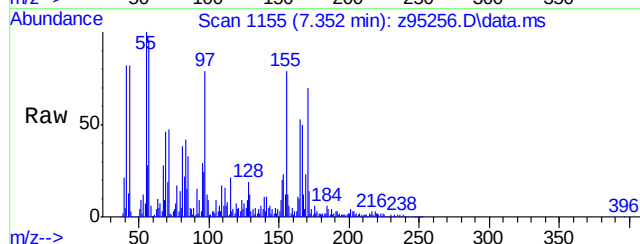
#59
Acenaphthene
Concen: 5.44 ppb
RT: 6.727 min Scan# 1038
Delta R.T. 0.005 min
Lab File: z95256.D
Acq: 9 Sep 2014 12:46 am

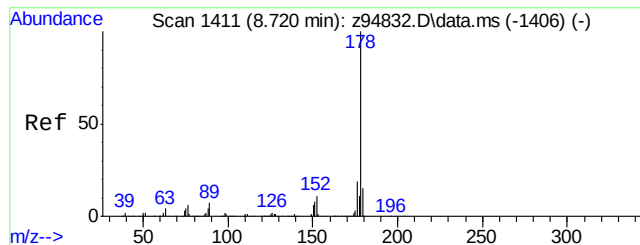
Tgt Ion	Ratio	Lower	Upper
153	100		
152	47.3	16.6	76.6
154	88.9	63.1	123.1



#66
Fluorene
Concen: 9.15 ppb
RT: 7.352 min Scan# 1155
Delta R.T. 0.011 min
Lab File: z95256.D
Acq: 9 Sep 2014 12:46 am

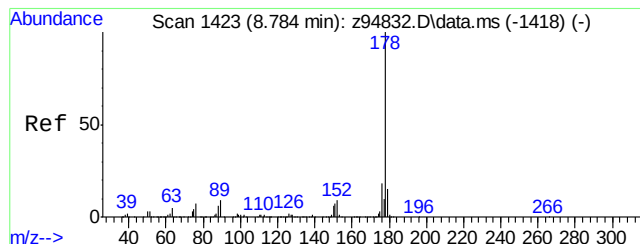
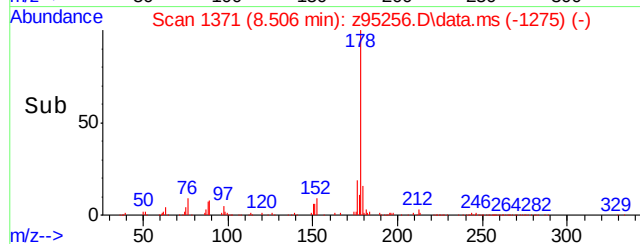
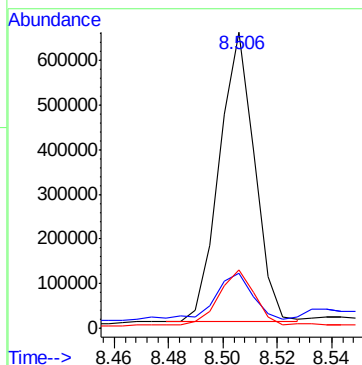
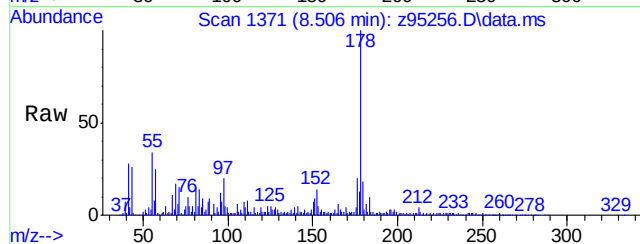
Tgt Ion	Ratio	Lower	Upper
166	100		
165	100.2	64.0	124.0
167	18.5	0.0	43.2





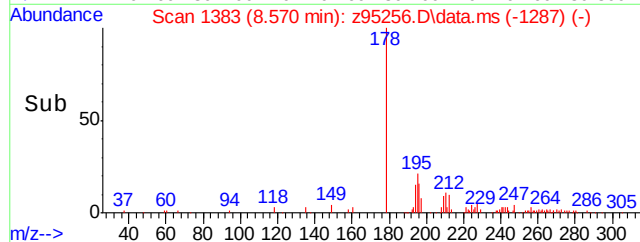
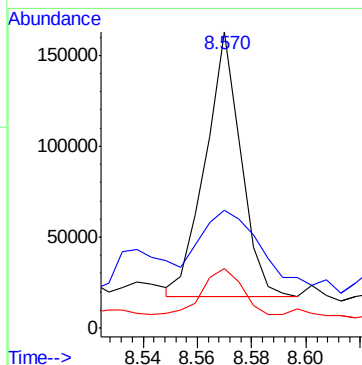
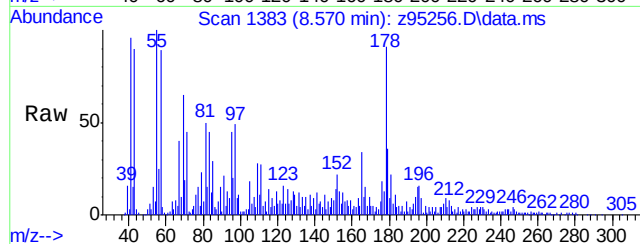
#77
Phenanthrene
Concen: 19.98 ppb
RT: 8.506 min Scan# 1371
Delta R.T. 0.011 min
Lab File: z95256.D
Acq: 9 Sep 2014 12:46 am

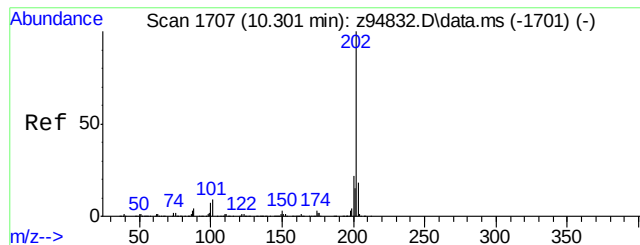
Tgt Ion	Ratio	Lower	Upper
178	100		
179	15.3	0.0	44.0
176	18.8	0.0	48.5



#78
Anthracene
Concen: 4.51 ppb
RT: 8.570 min Scan# 1383
Delta R.T. 0.011 min
Lab File: z95256.D
Acq: 9 Sep 2014 12:46 am

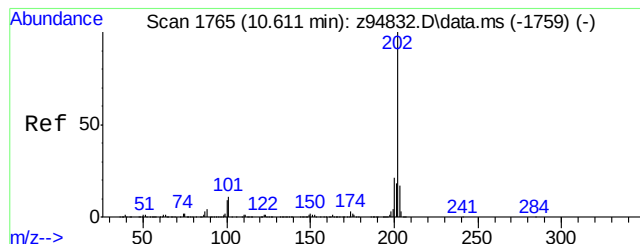
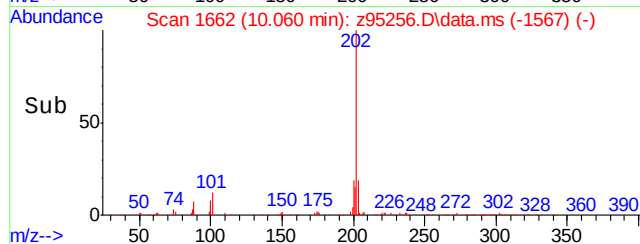
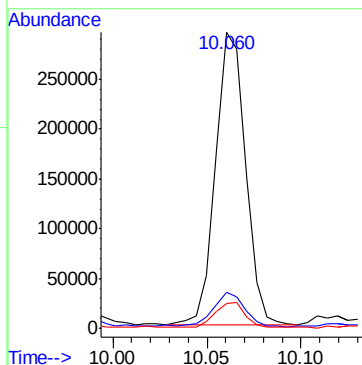
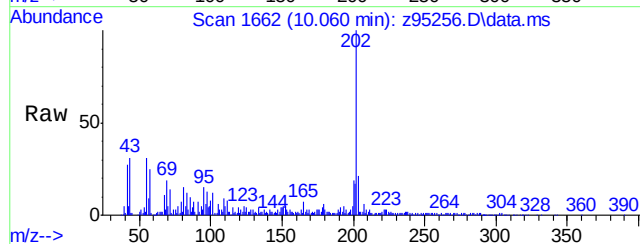
Tgt Ion	Ratio	Lower	Upper
178	100		
179	22.9	0.0	44.9
176	16.4	0.0	48.4





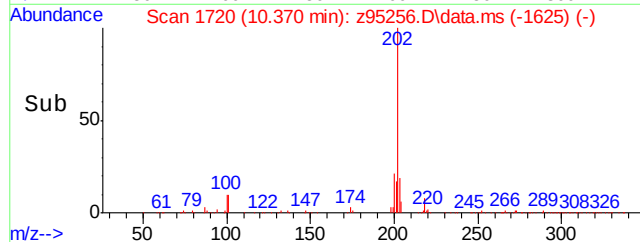
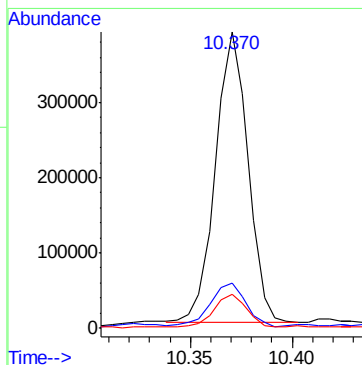
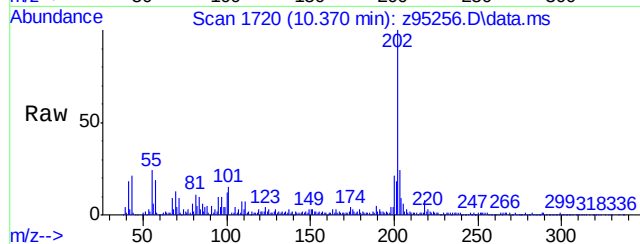
#81
Fluoranthene
Concen: 9.58 ppb
RT: 10.060 min Scan# 1662
Delta R.T. 0.005 min
Lab File: z95256.D
Acq: 9 Sep 2014 12:46 am

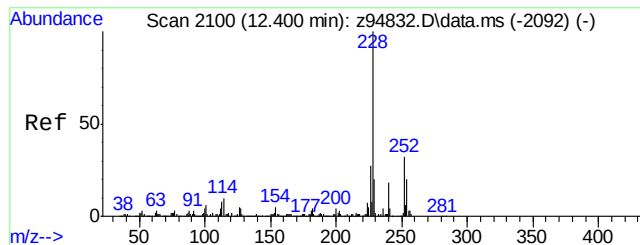
Tgt Ion	Ratio	Lower	Upper
202	100		
101	11.4	0.0	38.1
100	8.2	0.0	36.3



#84
Pyrene
Concen: 12.86 ppb
RT: 10.370 min Scan# 1720
Delta R.T. 0.005 min
Lab File: z95256.D
Acq: 9 Sep 2014 12:46 am

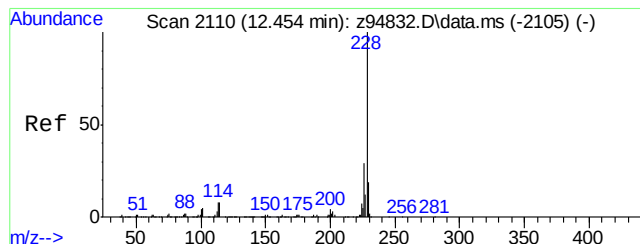
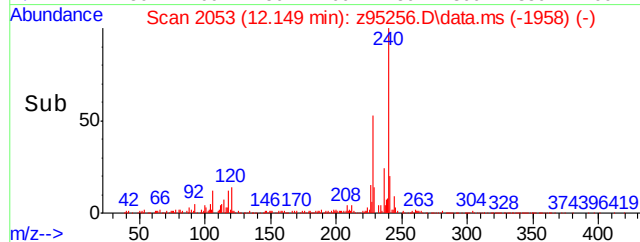
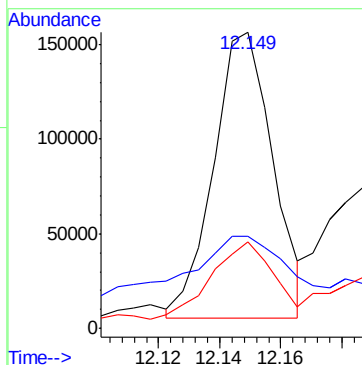
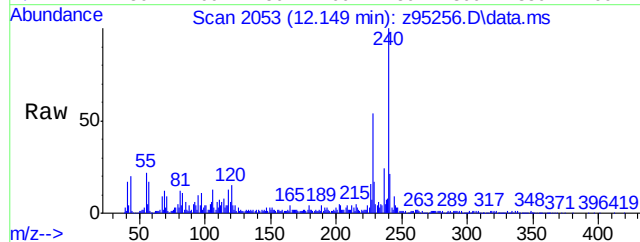
Tgt Ion	Ratio	Lower	Upper
202	100		
101	14.2	0.0	38.3
100	11.2	0.0	37.2





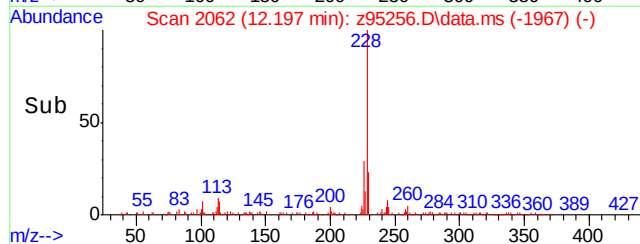
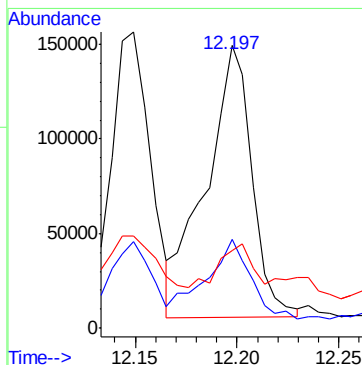
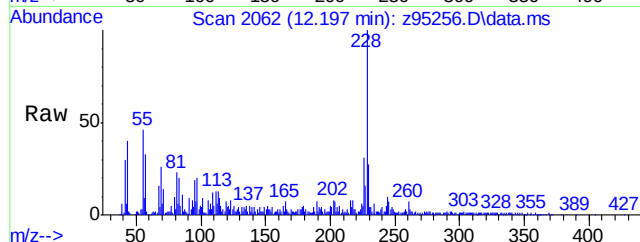
#88
Benzo[a]anthracene
Concen: 6.02 ppb
RT: 12.149 min Scan# 2053
Delta R.T. 0.005 min
Lab File: z95256.D
Acq: 9 Sep 2014 12:46 am

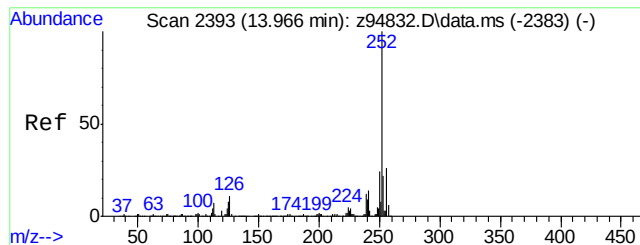
Tgt Ion:	228	Resp:	203770
Ion Ratio	Lower	Upper	
228	100		
229	16.9	0.0	49.8
226	27.4	0.0	57.5



#90
Chrysene
Concen: 7.21 ppb
RT: 12.197 min Scan# 2062
Delta R.T. 0.005 min
Lab File: z95256.D
Acq: 9 Sep 2014 12:46 am

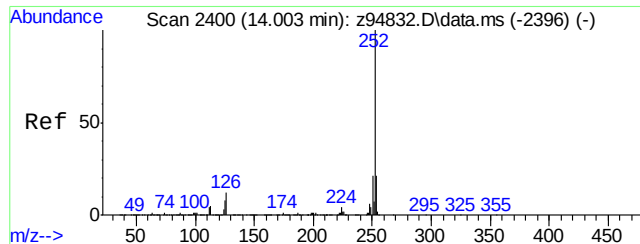
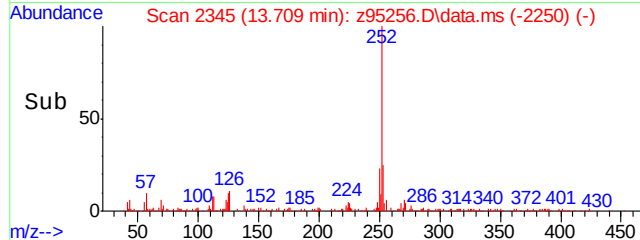
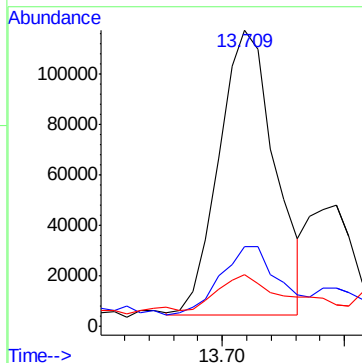
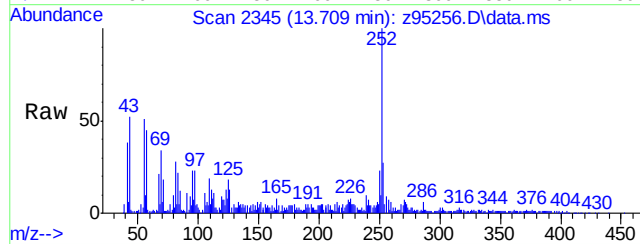
Tgt Ion:	228	Resp:	226636
Ion Ratio	Lower	Upper	
228	100		
226	30.4	0.0	59.4
229	11.0	0.0	49.7





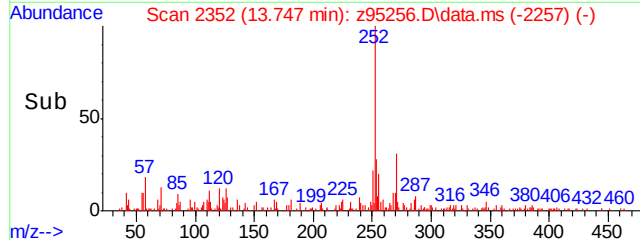
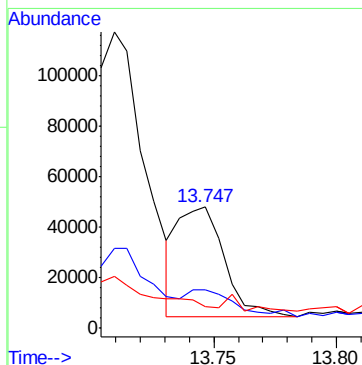
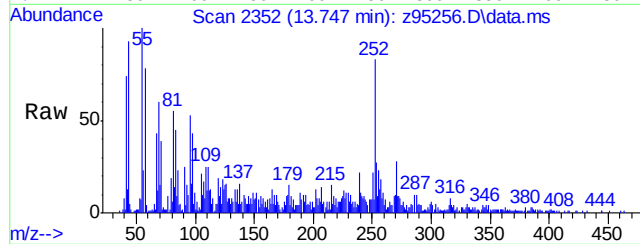
#94
Benzo[b]fluoranthene
Concen: 4.95 ppb
RT: 13.709 min Scan# 2345
Delta R.T. 0.005 min
Lab File: z95256.D
Acq: 9 Sep 2014 12:46 am

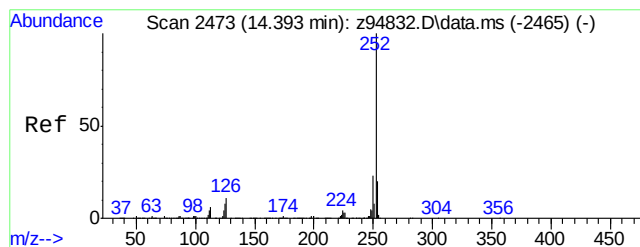
Tgt Ion:	252	Resp:	180514
Ion Ratio	Lower	Upper	
252	100		
253	23.7	0.0	52.2
125	11.4	0.0	36.1



#95
Benzo[k]fluoranthene
Concen: 1.64 ppb
RT: 13.747 min Scan# 2352
Delta R.T. 0.005 min
Lab File: z95256.D
Acq: 9 Sep 2014 12:46 am

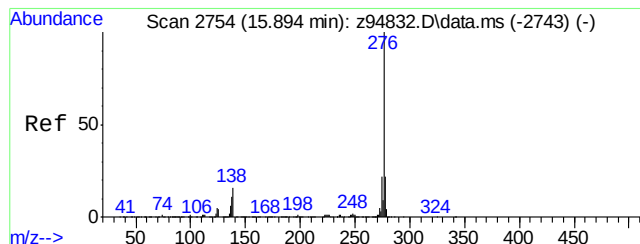
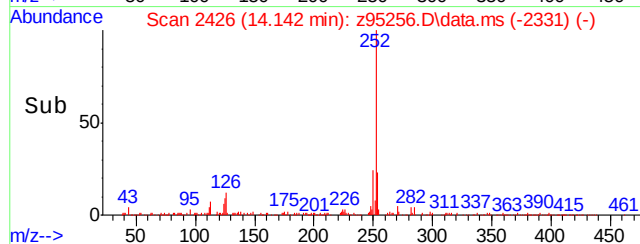
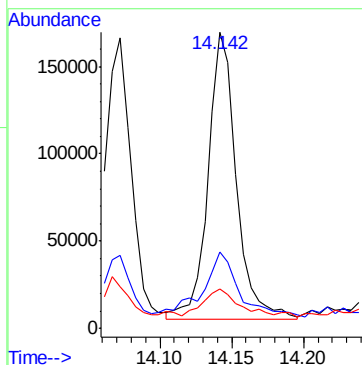
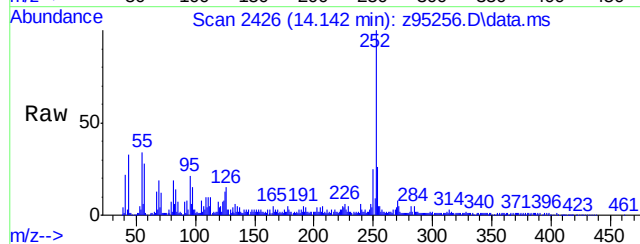
Tgt Ion:	252	Resp:	57542
Ion Ratio	Lower	Upper	
252	100		
253	24.2	0.0	50.8
125	0.0	0.0	36.8





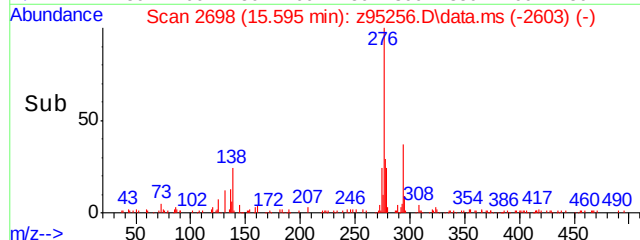
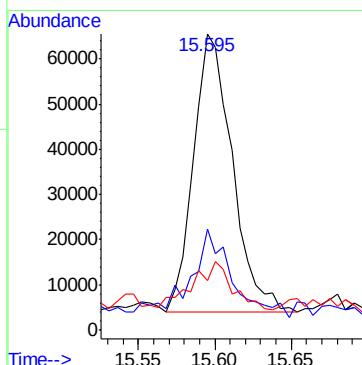
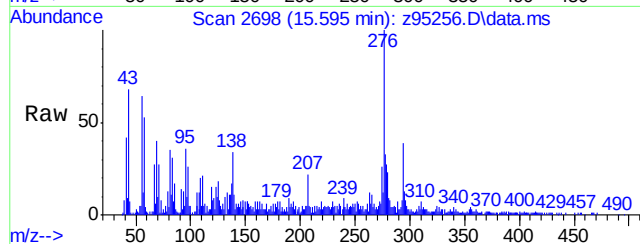
#96
Benzo[a]pyrene
Concen: 6.97 ppb
RT: 14.142 min Scan# 2426
Delta R.T. 0.005 min
Lab File: z95256.D
Acq: 9 Sep 2014 12:46 am

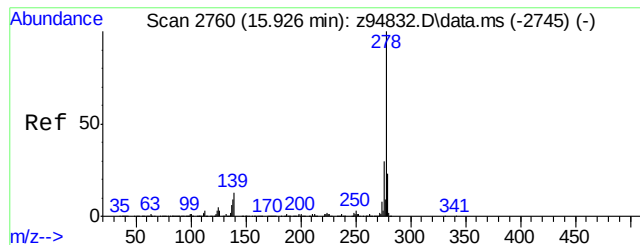
Tgt Ion:	252	Resp:	224554
Ion Ratio	Lower	Upper	
252	100		
253	21.0	0.0	51.8
125	8.9	0.0	36.8



#97
Indeno[1,2,3-cd]pyrene
Concen: 3.37 ppb
RT: 15.595 min Scan# 2698
Delta R.T. 0.005 min
Lab File: z95256.D
Acq: 9 Sep 2014 12:46 am

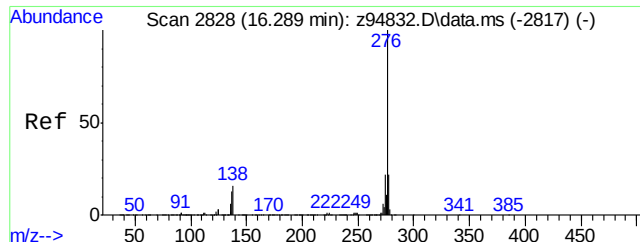
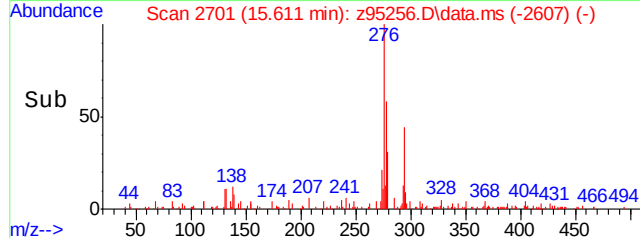
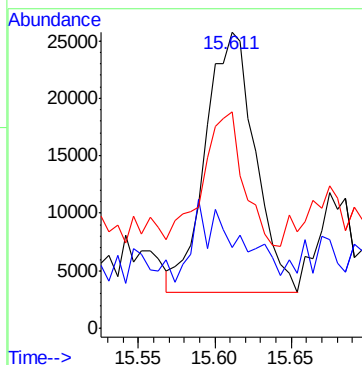
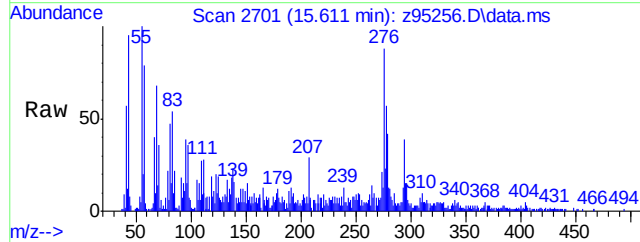
Tgt Ion:	276	Resp:	108518
Ion Ratio	Lower	Upper	
276	100		
138	27.5	0.0	45.0
137	6.5	0.0	40.0





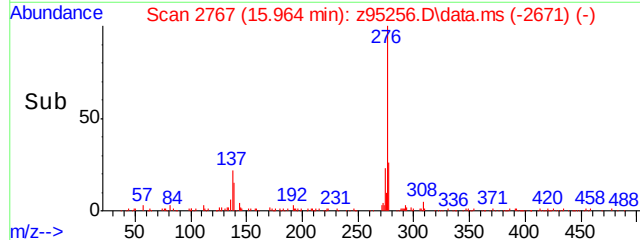
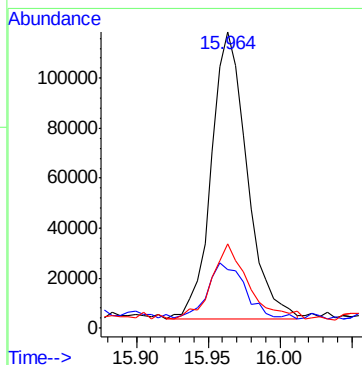
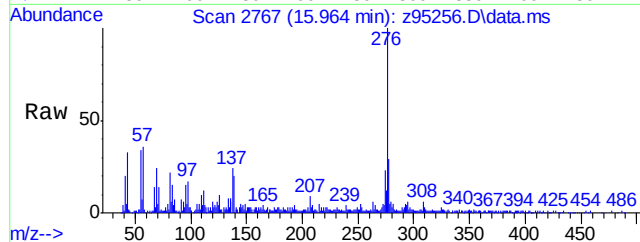
#99
Dibenz[a,h]anthracene
Concen: 1.61 ppb
RT: 15.611 min Scan# 2701
Delta R.T. -0.000 min
Lab File: z95256.D
Acq: 9 Sep 2014 12:46 am

Tgt Ion	Ratio	Lower	Upper
278	100		
139	0.0	0.0	42.1
279	49.7	0.0	53.7



#101
Benzo[g,h,i]perylene
Concen: 6.18 ppb
RT: 15.964 min Scan# 2767
Delta R.T. 0.011 min
Lab File: z95256.D
Acq: 9 Sep 2014 12:46 am

Tgt Ion	Ratio	Lower	Upper
276	100		
138	16.6	0.0	44.7
277	24.9	0.0	54.5



Manual Integration Approval Summary

Sample Number:

JB75844-4

Method:

SW846 8270D

Lab FileID:

Z95256.D

Analyst approved:

09/09/14 10:13 Andrew Lee Smith

Injection Time:

09/09/14 00:46

Supervisor approved:

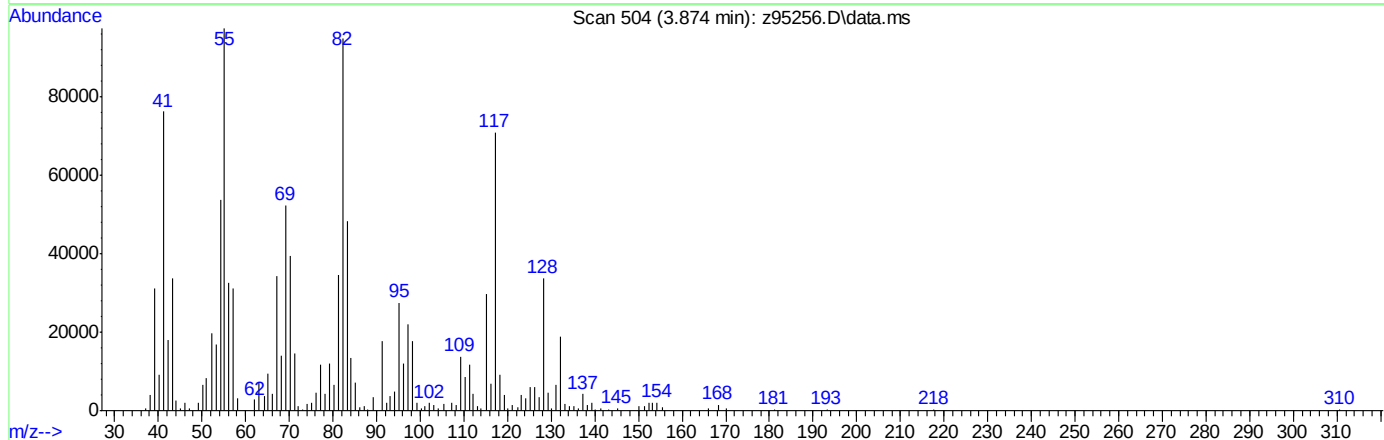
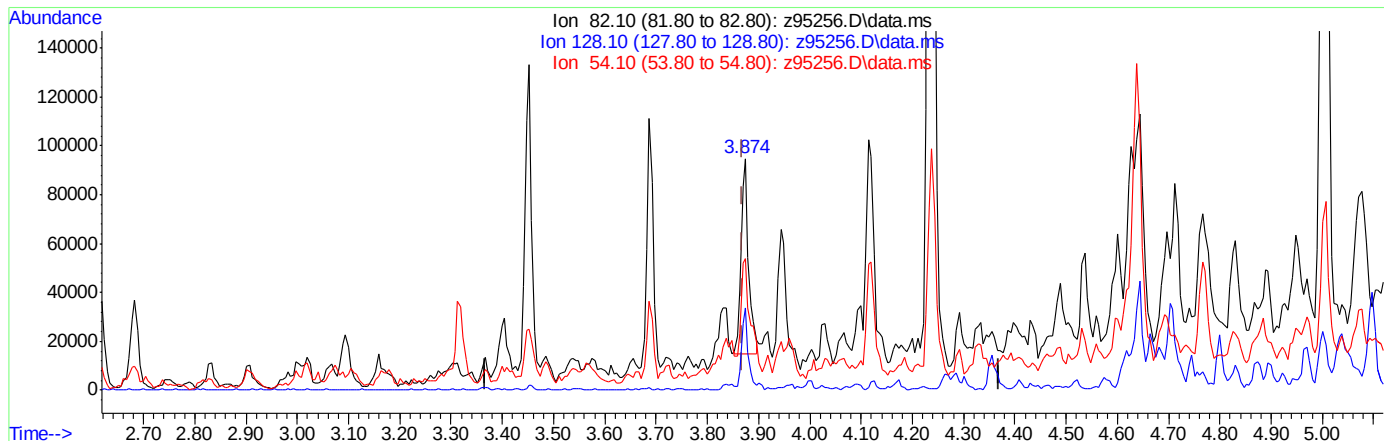
09/09/14 10:29 Nina Pandya

Parameter	CAS	Sig#	R.T. (min.)	Reason
Nitrobenzene-d5	4165-60-0		3.87	Poor instrument integration

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\ez4729\
 Data File : z95256.D
 Acq On : 9 Sep 2014 12:46 am
 Operator : saraw
 Sample : jb75844-4
 Misc : op77866,ez4729,31.0,,,5
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Sep 09 08:13:57 2014
 Quant Method : C:\MSDCHEM\1\METHODS\MZ4711.M
 Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
 QLast Update : Tue Sep 09 08:13:48 2014
 Response via : Initial Calibration



(25) Nitrobenzene-d5 (S)

3.874min (+0.005) 9.03ppb m

response 83397

Ion	Exp%	Act%
82.10	100	100
128.10	39.60	35.67
54.10	101.50	56.74#
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P1697\
 Data File : 2p40510.D
 Acq On : 9 Sep 2014 11:10 am
 Operator : samtap
 Sample : jb75844-5
 Misc : op77866,e2p1697,32.6,,,1,2
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 09 11:31:00 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M2P1691.M
 Quant Title : Semi Volatile Extractables by GC/MS
 QLast Update : Fri Sep 05 20:04:39 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

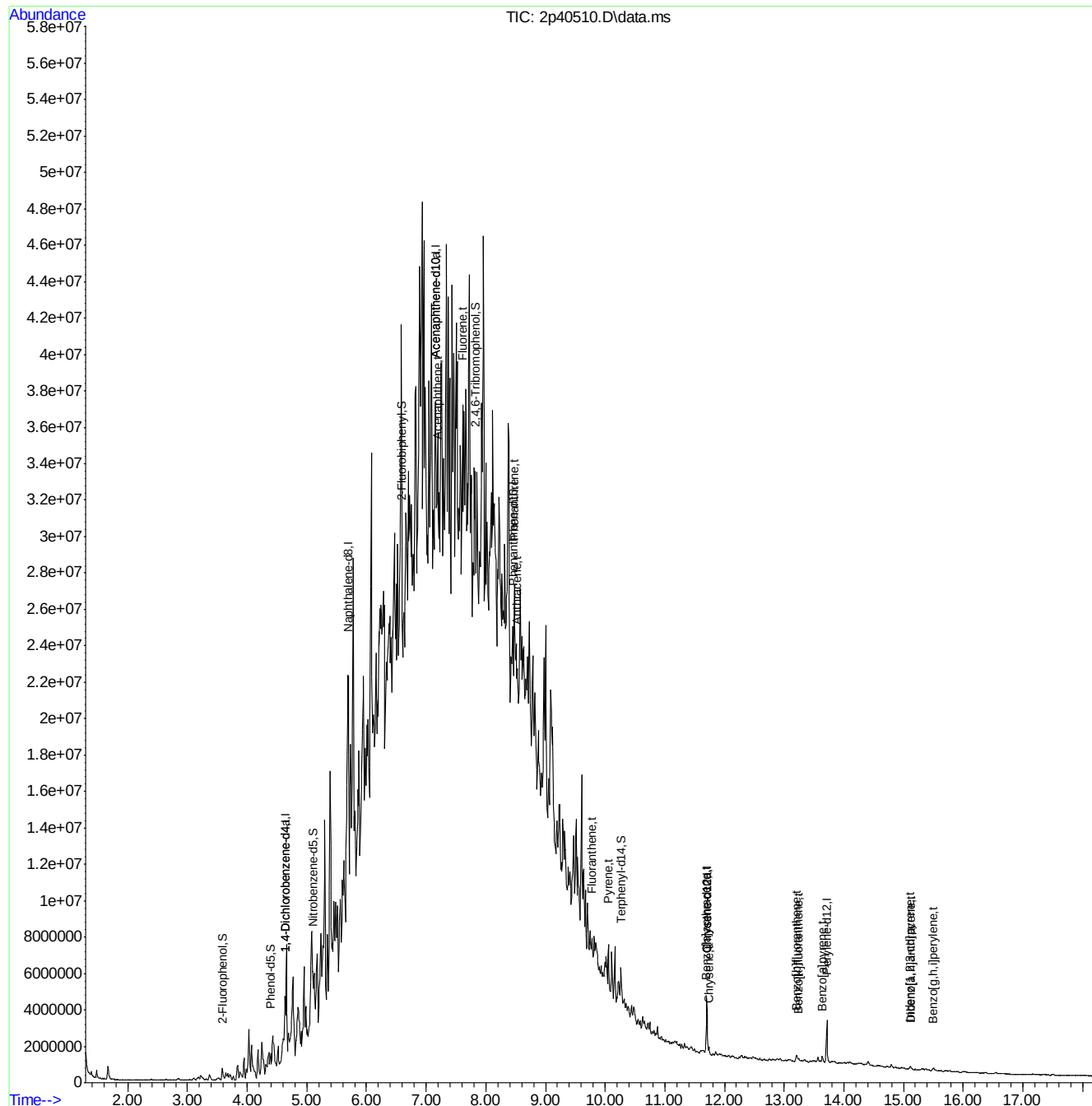
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.635	152	339826	40.00	ppb	-0.01
24) Naphthalene-d8	5.694	136	1252615	40.00	ppb	0.00
47) Acenaphthene-d10	7.160	164	778556	40.00	ppb	0.02
69) Phenanthrene-d10	8.454	188	1477915	40.00	ppb	0.03
83) Chrysene-d12	11.706	240	1113444	40.00	ppb	-0.01
92) Perylene-d12	13.717	264	920640	40.00	ppb	-0.01
102) 1,4-Dichlorobenzene-d4a	4.635	152	339826	40.00	ppb	-0.01
104) Acenaphthene-d10a	7.160	164	778594	40.00	ppb	0.02
107) Chrysene-d12a	11.706	240	1113444	40.00	ppb	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	3.581	112	212284	23.25	ppb	0.00
Spiked Amount 50.000	Range 11 - 58		Recovery =	46.50%		
8) Phenol-d5	4.394	99	256429	22.10	ppb	0.00
Spiked Amount 50.000	Range 10 - 59		Recovery =	44.20%		
25) Nitrobenzene-d5	5.101	82	227513	22.51	ppb	-0.02
Spiked Amount 50.000	Range 19 - 61		Recovery =	45.02%		
51) 2-Fluorobiphenyl	6.593	172	535636	21.13	ppb	0.00
Spiked Amount 50.000	Range 21 - 58		Recovery =	42.26%		
73) 2,4,6-Tribromophenol	7.823	330	144637	33.39	ppb	0.02
Spiked Amount 50.000	Range 12 - 68		Recovery =	66.78%		
85) Terphenyl-d14	10.267	244	610616	26.49	ppb	-0.01
Spiked Amount 50.000	Range 16 - 65		Recovery =	52.98%		
Target Compounds						Qvalue
59) Acenaphthene	7.186	153	720290	28.63	ppb	97
66) Fluorene	7.614	166	757958m	28.23	ppb	
77) Phenanthrene	8.475	178	2701309	61.12	ppb	98
78) Anthracene	8.524	178	619623	13.93	ppb	88
81) Fluoranthene	9.781	202	517671	10.12	ppb	99
84) Pyrene	10.059	202	776285	19.56	ppb	97
88) Benzo[a]anthracene	11.695	228	173706	4.90	ppb	94
90) Chrysene	11.743	228	182285	5.97	ppb	93
94) Benzo[b]fluoranthene	13.209	252	168952m	5.35	ppb	
95) Benzo[k]fluoranthene	13.241	252	55207	1.92	ppb	83
96) Benzo[a]pyrene	13.637	252	145096	5.32	ppb	96
97) Indeno[1,2,3-cd]pyrene	15.113	276	78665	2.49	ppb	88
99) Dibenz[a,h]anthracene	15.129	278	18887m	0.75	ppb	
101) Benzo[g,h,i]perylene	15.498	276	104155	4.19	ppb	88

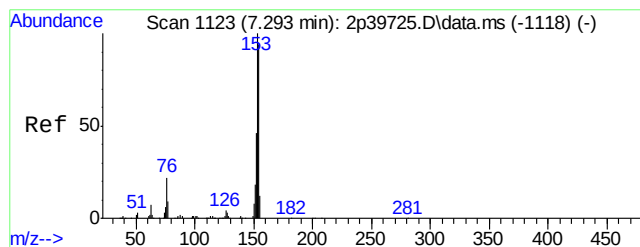
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P1697\
Data File : 2p40510.D
Acq On : 9 Sep 2014 11:10 am
Operator : samtap
Sample : jb75844-5
Misc : op77866,e2p1697,32.6,,,1,2
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 09 11:31:00 2014
Quant Method : C:\MSDCHEM\1\METHODS\M2P1691.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri Sep 05 20:04:39 2014
Response via : Initial Calibration





#59

Acenaphthene

Concen: 28.63 ppb

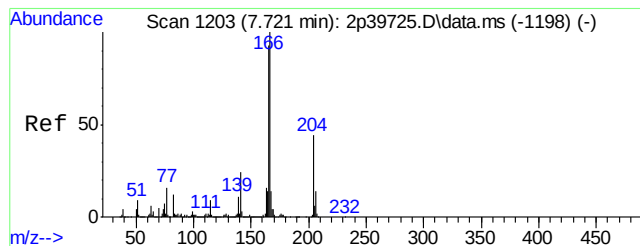
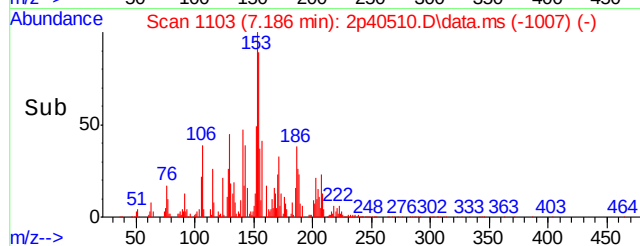
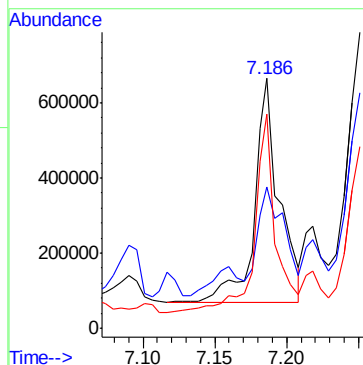
RT: 7.186 min Scan# 1103

Delta R.T. 0.016 min

Lab File: 2p40510.D

Acq: 9 Sep 2014 11:10 am

Tgt Ion	Ratio	Lower	Upper
153	100		
152	41.9	14.1	74.1
154	91.7	58.7	118.7



#66

Fluorene

Concen: 28.23 ppb m

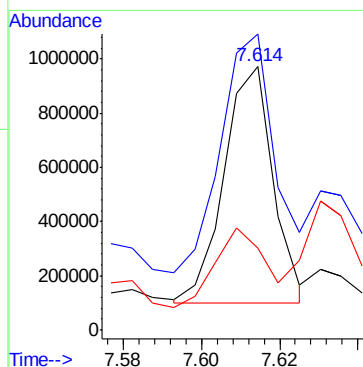
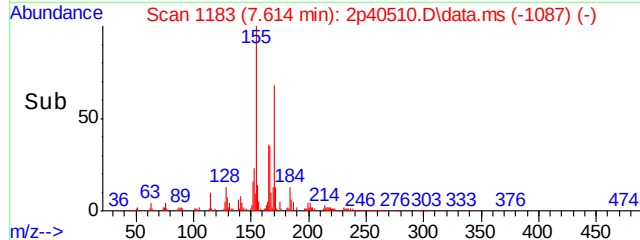
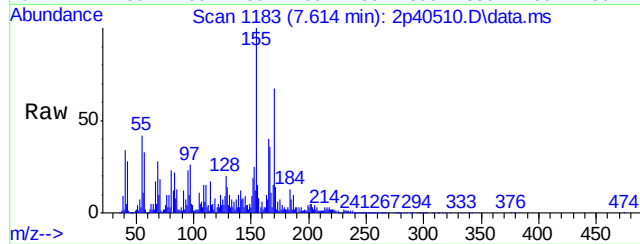
RT: 7.614 min Scan# 1183

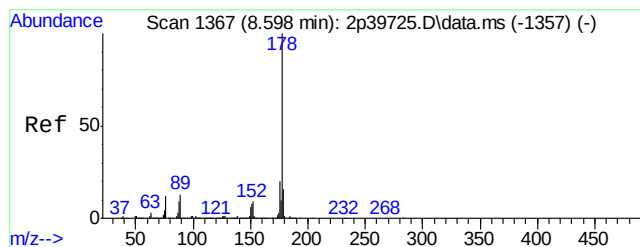
Delta R.T. 0.016 min

Lab File: 2p40510.D

Acq: 9 Sep 2014 11:10 am

Tgt Ion	Ratio	Lower	Upper
166	100		
165	112.2	63.2	123.2
167	30.9	0.0	43.1





#77

Phenanthrene

Concen: 61.12 ppb

RT: 8.475 min Scan# 1344

Delta R.T. 0.016 min

Lab File: 2p40510.D

Acq: 9 Sep 2014 11:10 am

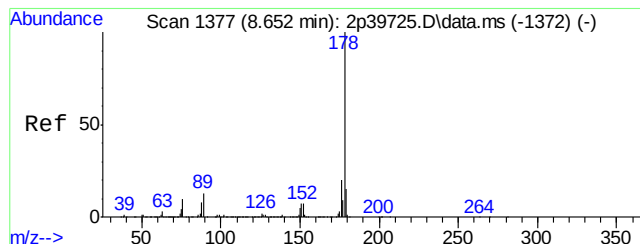
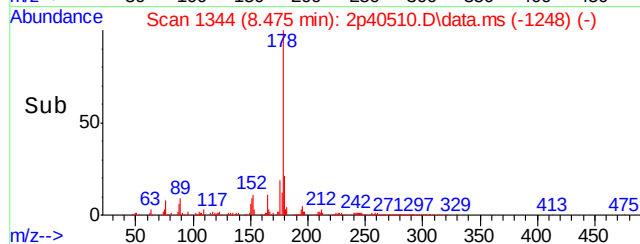
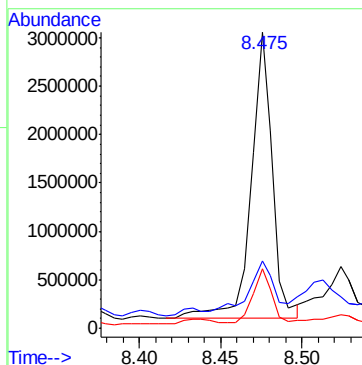
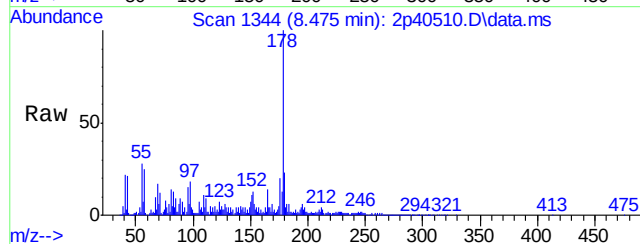
Tgt Ion:178 Resp: 2701309

Ion Ratio Lower Upper

178 100

179 16.4 0.0 45.3

176 19.1 0.0 48.8



#78

Anthracene

Concen: 13.93 ppb

RT: 8.524 min Scan# 1353

Delta R.T. 0.011 min

Lab File: 2p40510.D

Acq: 9 Sep 2014 11:10 am

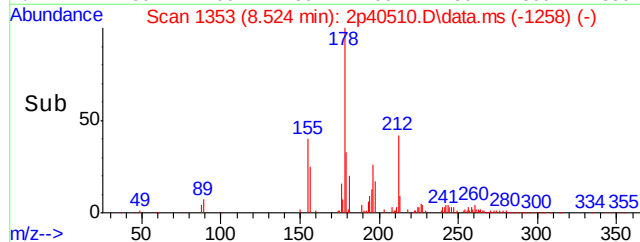
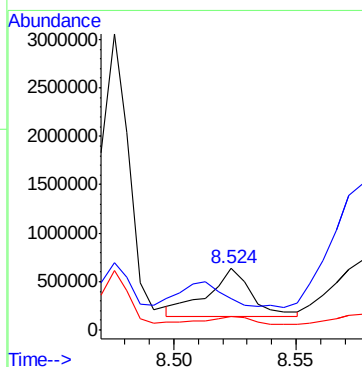
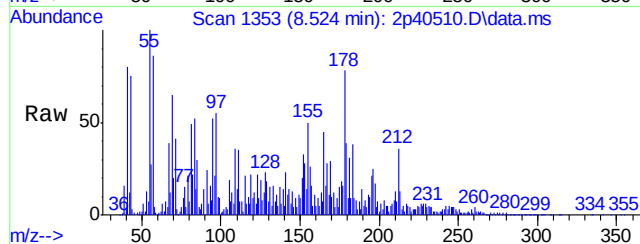
Tgt Ion:178 Resp: 619623

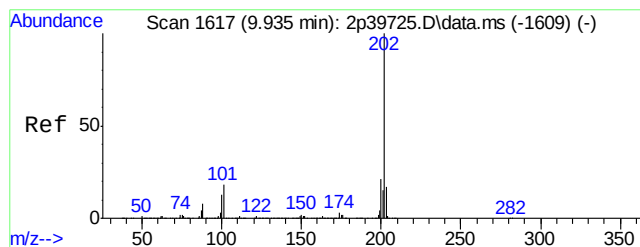
Ion Ratio Lower Upper

178 100

179 3.9 0.0 45.0

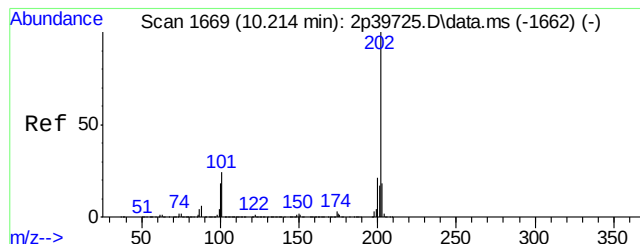
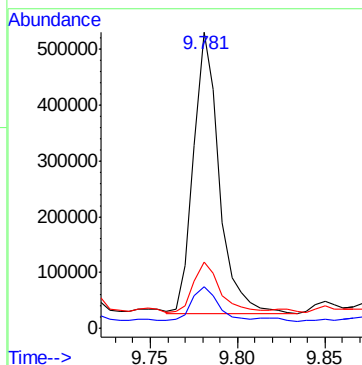
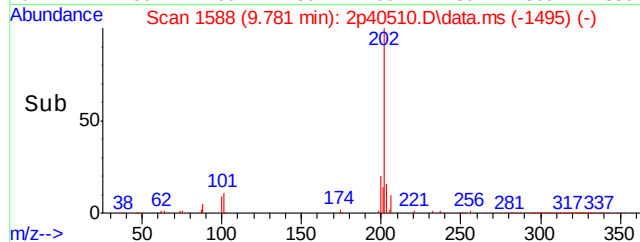
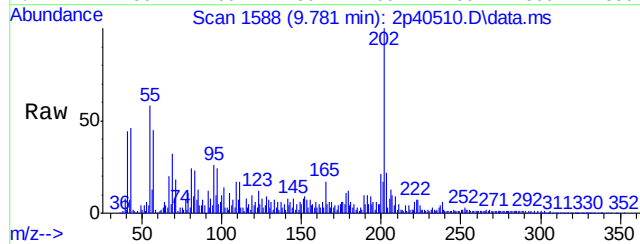
176 18.3 0.0 48.5





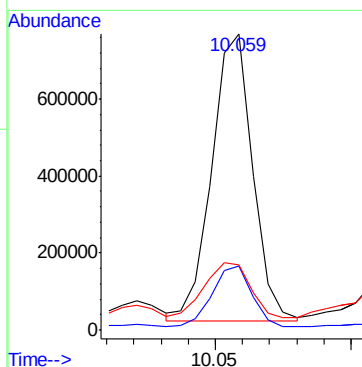
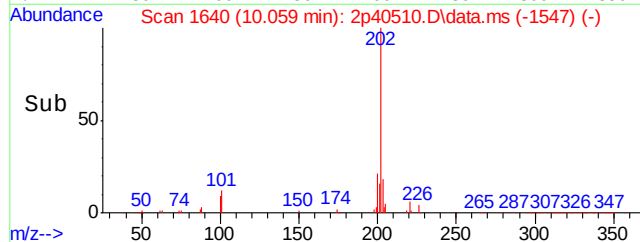
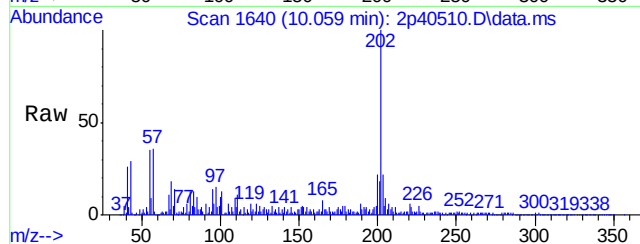
#81
Fluoranthene
Concen: 10.12 ppb
RT: 9.781 min Scan# 1588
Delta R.T. -0.000 min
Lab File: 2p40510.D
Acq: 9 Sep 2014 11:10 am

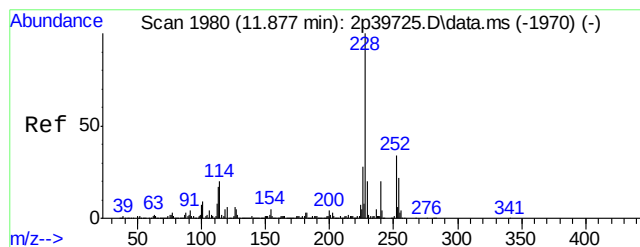
Tgt Ion	Ratio	Lower	Upper
202	100		
101	12.2	0.0	42.5
203	17.6	0.0	47.1



#84
Pyrene
Concen: 19.56 ppb
RT: 10.059 min Scan# 1640
Delta R.T. -0.000 min
Lab File: 2p40510.D
Acq: 9 Sep 2014 11:10 am

Tgt Ion	Ratio	Lower	Upper
202	100		
200	21.5	0.0	50.3
203	18.6	0.0	47.4





#88

Benzo[a]anthracene

Concen: 4.90 ppb

RT: 11.695 min Scan# 1946

Delta R.T. -0.022 min

Lab File: 2p40510.D

Acq: 9 Sep 2014 11:10 am

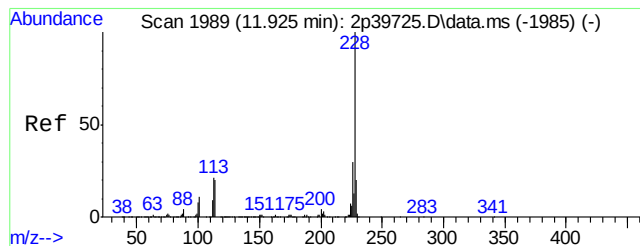
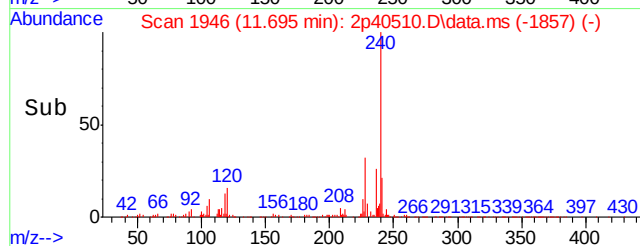
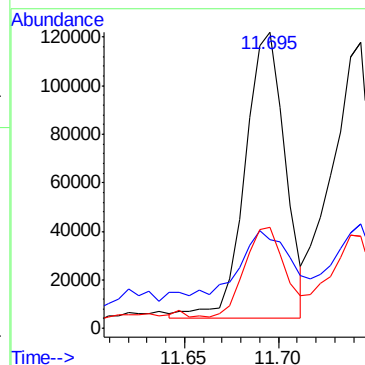
Tgt Ion: 228 Resp: 173706

Ion Ratio Lower Upper

228 100

229 17.1 0.0 49.2

226 30.2 0.0 56.9



#90

Chrysene

Concen: 5.97 ppb

RT: 11.743 min Scan# 1955

Delta R.T. -0.027 min

Lab File: 2p40510.D

Acq: 9 Sep 2014 11:10 am

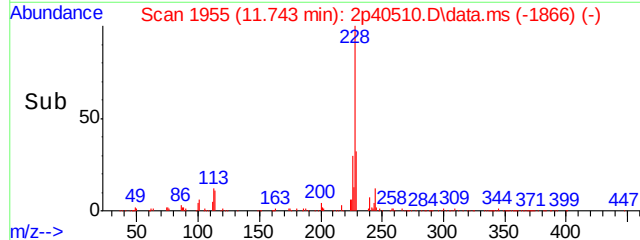
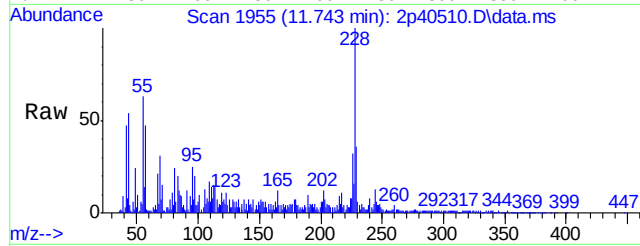
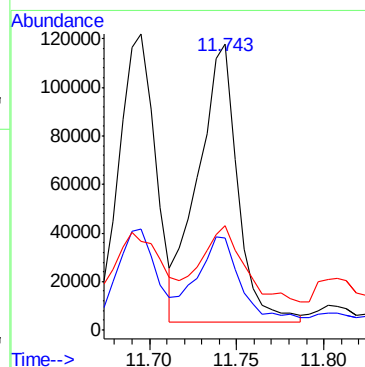
Tgt Ion: 228 Resp: 182285

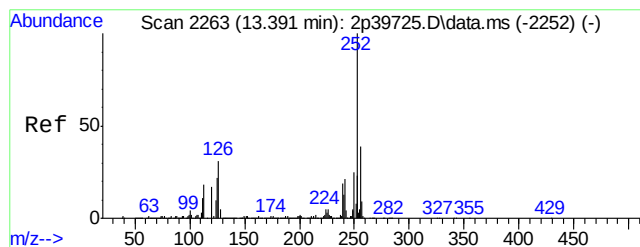
Ion Ratio Lower Upper

228 100

226 28.1 0.0 59.1

229 25.8 0.0 49.5





#94

Benzo[b]fluoranthene

Concen: 5.35 ppb m

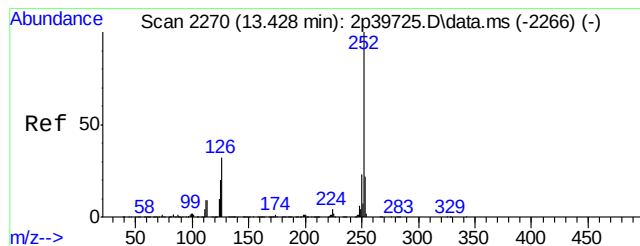
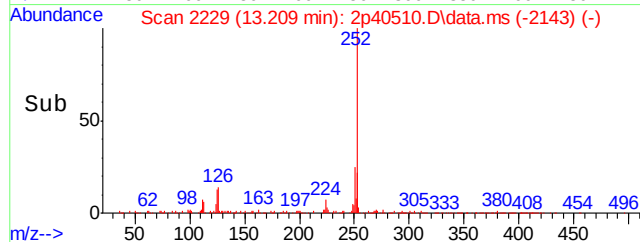
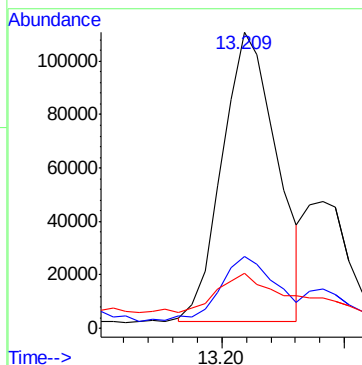
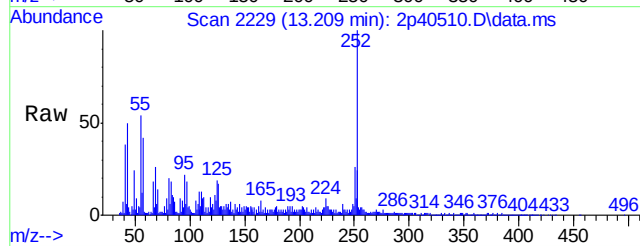
RT: 13.209 min Scan# 2229

Delta R.T. -0.037 min

Lab File: 2p40510.D

Acq: 9 Sep 2014 11:10 am

Tgt Ion:	252	Resp:	168952
Ion Ratio	Lower	Upper	
252	100		
253	24.3	0.0	51.9
125	18.7	0.0	43.8



#95

Benzo[k]fluoranthene

Concen: 1.92 ppb

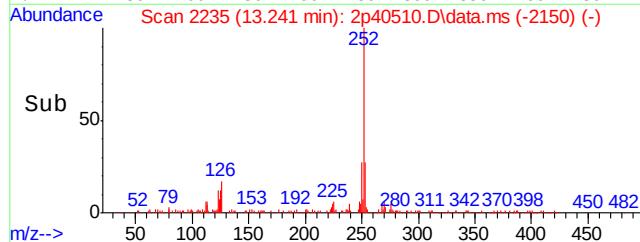
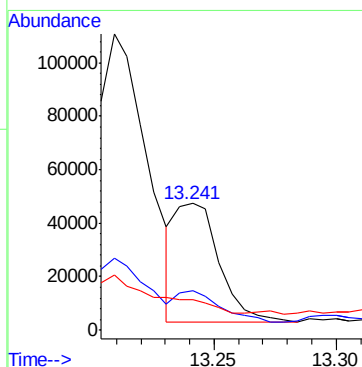
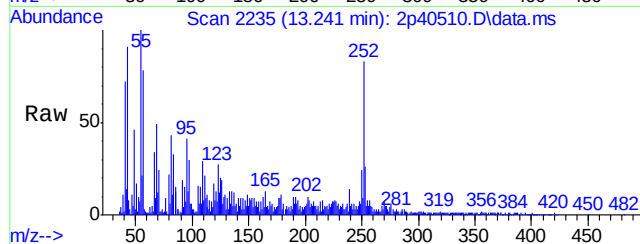
RT: 13.241 min Scan# 2235

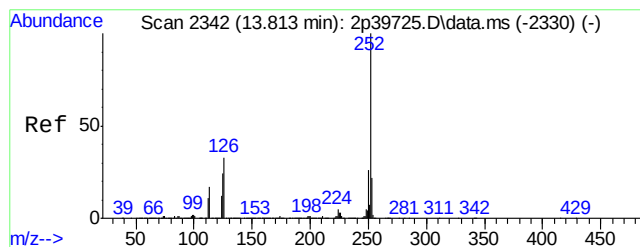
Delta R.T. -0.043 min

Lab File: 2p40510.D

Acq: 9 Sep 2014 11:10 am

Tgt Ion:	252	Resp:	55207
Ion Ratio	Lower	Upper	
252	100		
253	31.2	0.0	51.6
125	8.3	0.0	42.6





#96

Benzo[a]pyrene

Concen: 5.32 ppb

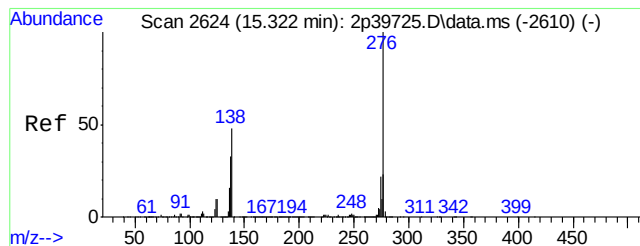
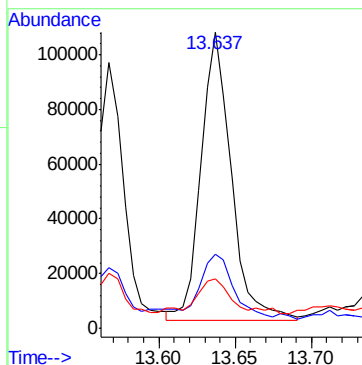
RT: 13.637 min Scan# 2309

Delta R.T. -0.032 min

Lab File: 2p40510.D

Acq: 9 Sep 2014 11:10 am

Tgt Ion:	252	Resp:	145096
Ion Ratio	Lower	Upper	
252	100		
253	21.2	0.0	51.7
125	10.8	0.0	44.8



#97

Indeno[1,2,3-cd]pyrene

Concen: 2.49 ppb

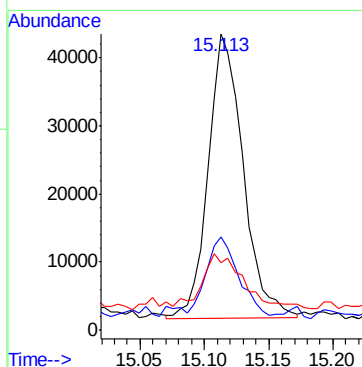
RT: 15.113 min Scan# 2585

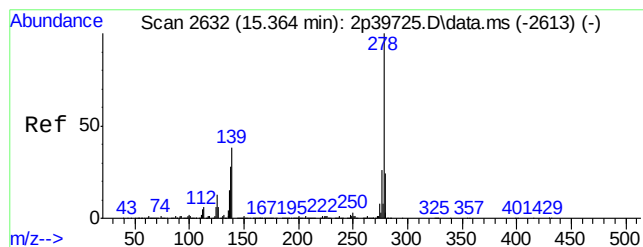
Delta R.T. -0.043 min

Lab File: 2p40510.D

Acq: 9 Sep 2014 11:10 am

Tgt Ion:	276	Resp:	78665
Ion Ratio	Lower	Upper	
276	100		
138	24.9	0.0	59.9
137	14.1	0.0	51.3





#99

Dibenz[a,h]anthracene

Concen: 0.75 ppb m

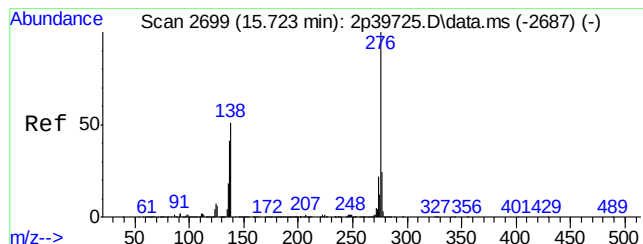
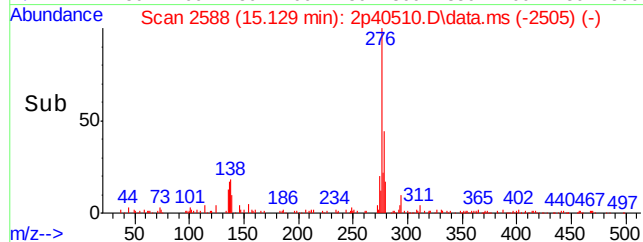
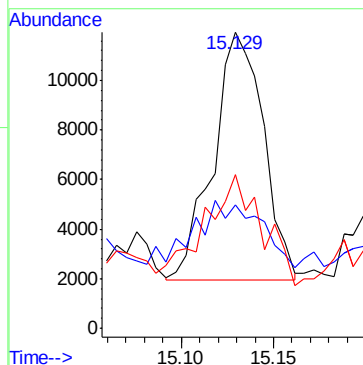
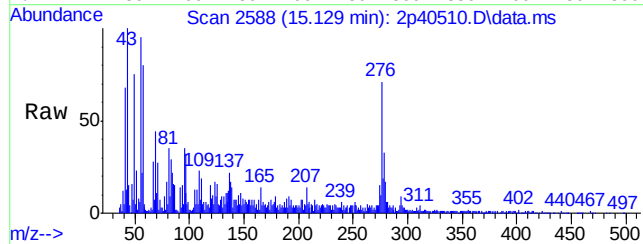
RT: 15.129 min Scan# 2588

Delta R.T. -0.054 min

Lab File: 2p40510.D

Acq: 9 Sep 2014 11:10 am

Tgt Ion:	278	Resp:	18887
Ion Ratio	Lower	Upper	
278	100		
139	41.6	0.0	51.8
279	51.9	0.0	53.4



#101

Benzo[g,h,i]perylene

Concen: 4.19 ppb

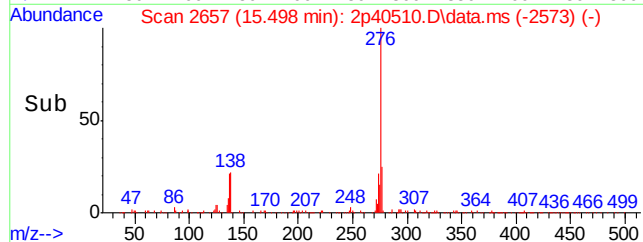
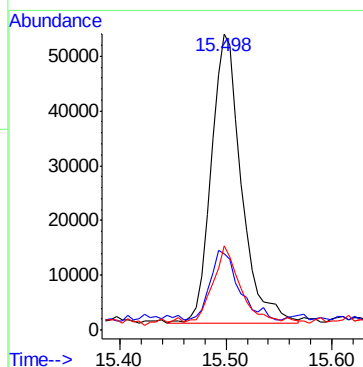
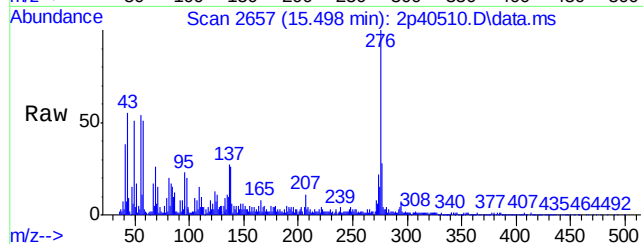
RT: 15.498 min Scan# 2657

Delta R.T. -0.048 min

Lab File: 2p40510.D

Acq: 9 Sep 2014 11:10 am

Tgt Ion:	276	Resp:	104155
Ion Ratio	Lower	Upper	
276	100		
138	21.5	0.6	60.6
277	26.2	0.0	53.5



Manual Integration Approval Summary

Sample Number: JB75844-5

Method: SW846 8270D

Lab FileID: 2P40510.D

Analyst approved: 09/09/14 11:31 Olga Azarihn

Injection Time: 09/09/14 11:10

Supervisor approved: 09/09/14 11:35 Nina Pandya

Parameter	CAS	Sig#	R.T. (min.)	Reason
Fluorene	86-73-7		7.61	Poor instrument integration
Benzo(b)fluoranthene	205-99-2		13.21	Poor instrument integration
Dibenzo(a,h)anthracene	53-70-3		15.13	Poor instrument integration

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ez4729\
 Data File : z95257.D
 Acq On : 9 Sep 2014 1:11 am
 Operator : saraw
 Sample : jb75844-5
 Misc : op77866,ez4729,32.6
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Sep 09 08:19:01 2014
 Quant Method : C:\MSDCHEM\1\METHODS\MZ4711.M
 Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
 QLast Update : Tue Sep 09 08:16:42 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

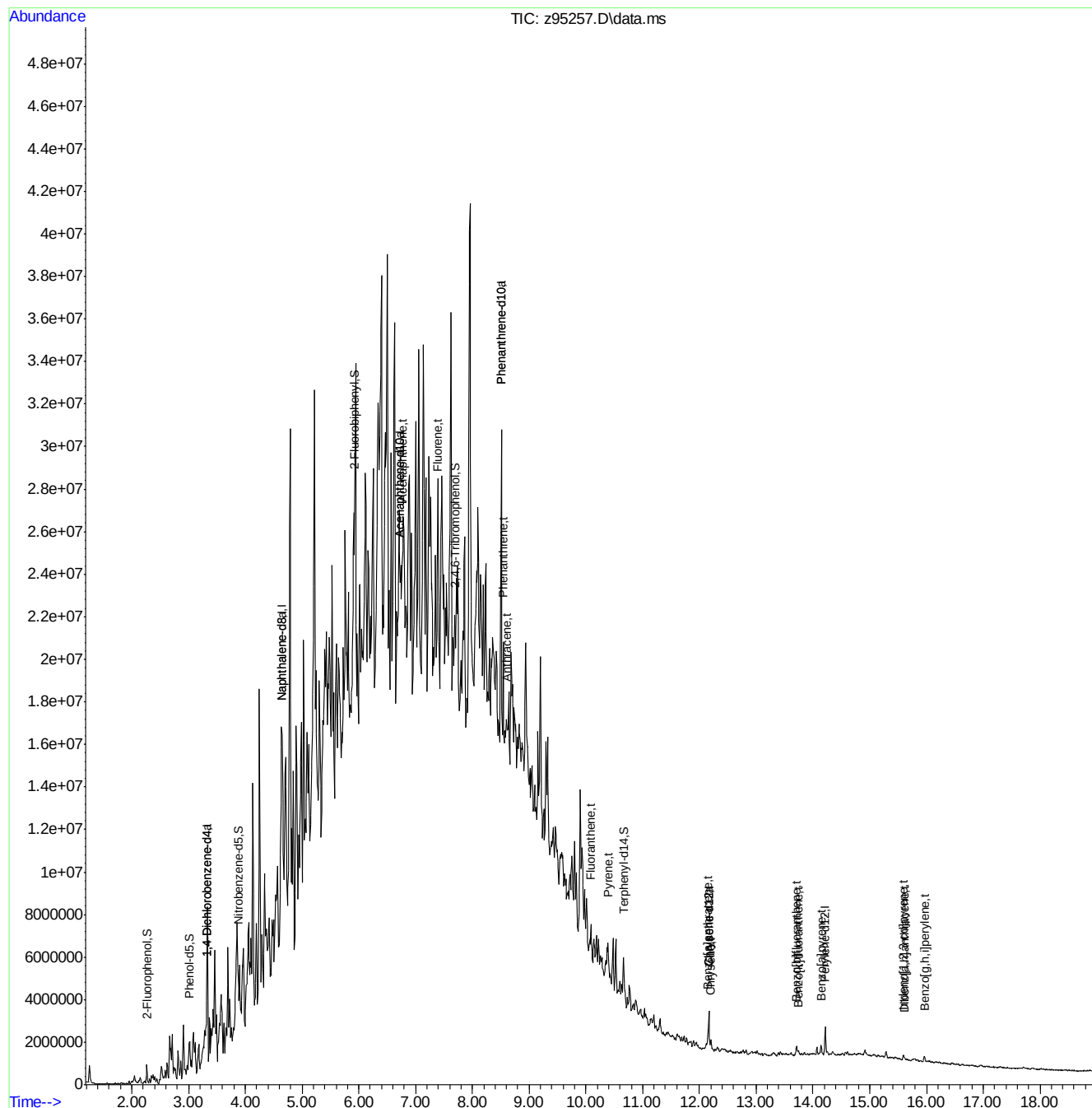
Internal Standards						
1) 1,4-Dichlorobenzene-d4	3.319	152	143888	40.00	ppb	0.00
24) Naphthalene-d8	4.649	136	556788	40.00	ppb	0.00
47) Acenaphthene-d10	6.727	164	346394	40.00	ppb	0.00
69) Phenanthrene-d10	8.511	188	531576	40.00	ppb	0.00
83) Chrysene-d12	12.165	240	614224	40.00	ppb	0.00
92) Perylene-d12	14.217	264	585297	40.00	ppb	0.00
102) 1,4-Dichlorobenzene-d4a	3.319	152	143888	40.00	ppb	0.00
104) Phenanthrene-d10a	8.511	188	531576	40.00	ppb	0.00
106) Chrysene-d12a	12.165	240	614224	40.00	ppb	0.00
108) Acenaphthene-d10a	6.727	164	346394	40.00	ppb	0.00
110) Naphthalene-d8a	4.649	136	556788	40.00	ppb	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	2.261	112	173690	38.72	ppb	0.00
Spiked Amount	50.000		Recovery	=	77.44%	
8) Phenol-d5	3.009	99	254626	45.24	ppb	0.00
Spiked Amount	50.000		Recovery	=	90.48%	
25) Nitrobenzene-d5	3.874	82	307544	50.29	ppb	0.00
Spiked Amount	50.000		Recovery	=	100.58%	
51) 2-Fluorobiphenyl	5.926	172	454141	35.71	ppb	0.00
Spiked Amount	50.000		Recovery	=	71.42%	
73) 2,4,6-Tribromophenol	7.694	330	87408	40.70	ppb	0.00
Spiked Amount	50.000		Recovery	=	81.40%	
86) Terphenyl-d14	10.664	244	635395	47.27	ppb	0.00
Spiked Amount	50.000		Recovery	=	94.54%	
Target Compounds						Qvalue
59) Acenaphthene	6.764	153	311974	27.76	ppb	98
66) Fluorene	7.389	166	738098	56.76	ppb	99
77) Phenanthrene	8.543	178	1975097	119.98	ppb	99
78) Anthracene	8.607	178	411609m	24.76	ppb	
81) Fluoranthene	10.093	202	426339	22.08	ppb	95
84) Pyrene	10.392	202	722786	35.58	ppb	80
88) Benzo[a]anthracene	12.149	228	192010	9.35	ppb	95
90) Chrysene	12.203	228	194883	10.23	ppb	95
94) Benzo[b]fluoranthene	13.709	252	228455	10.41	ppb	96
95) Benzo[k]fluoranthene	13.741	252	81034	3.84	ppb	92
96) Benzo[a]pyrene	14.142	252	203654	10.51	ppb	93
97) Indeno[1,2,3-cd]pyrene	15.595	276	134982	6.96	ppb	84
99) Dibenz[a,h]anthracene	15.611	278	41296	2.17	ppb	87
101) Benzo[g,h,i]perylene	15.964	276	181611	9.42	ppb	94

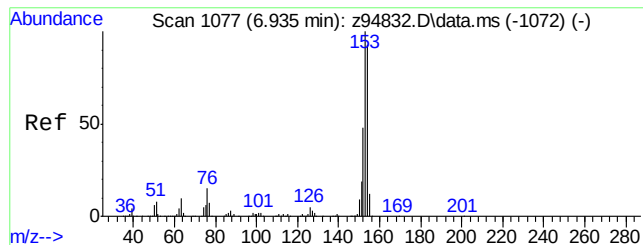
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ez4729\
Data File : z95257.D
Acq On : 9 Sep 2014 1:11 am
Operator : saraw
Sample : jb75844-5
Misc : op77866,ez4729,32.6
ALS Vial : 13 Sample Multiplier: 1

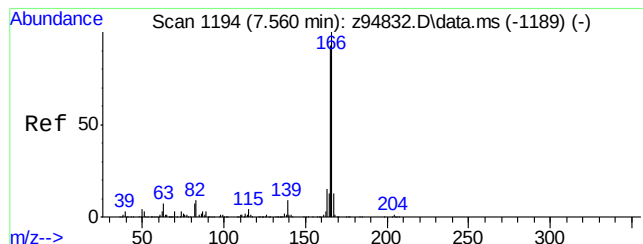
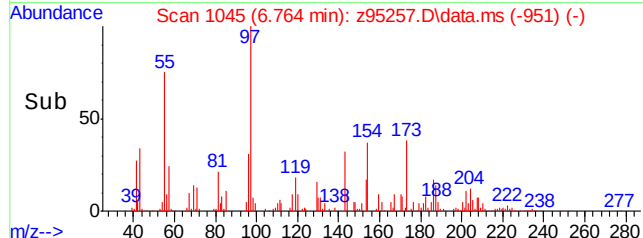
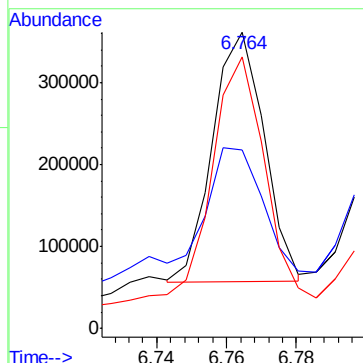
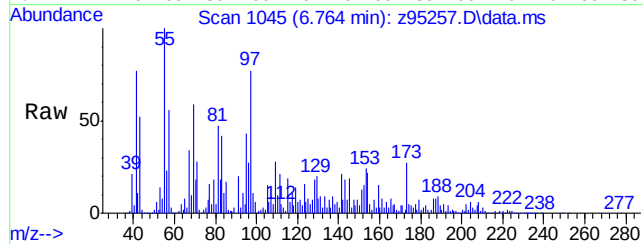
Quant Time: Sep 09 08:19:01 2014
Quant Method : C:\MSDCHEM\1\METHODS\MZ4711.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Tue Sep 09 08:16:42 2014
Response via : Initial Calibration





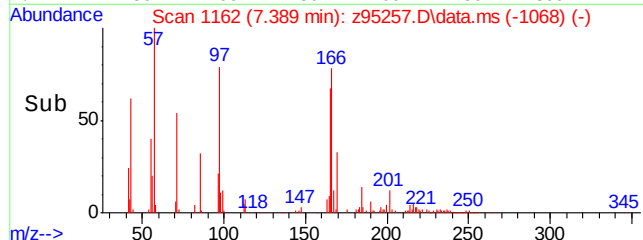
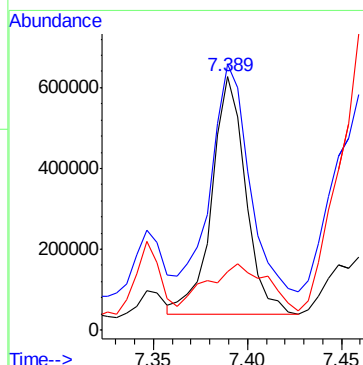
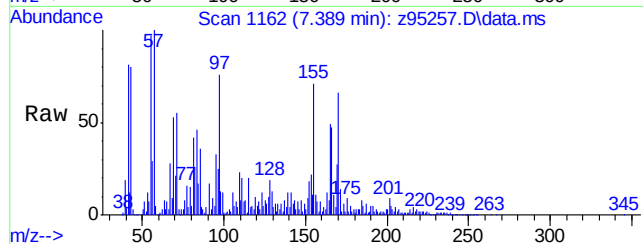
#59
Acenaphthene
Concen: 27.76 ppb
RT: 6.764 min Scan# 1045
Delta R.T. 0.000 min
Lab File: z95257.D
Acq: 9 Sep 2014 1:11 am

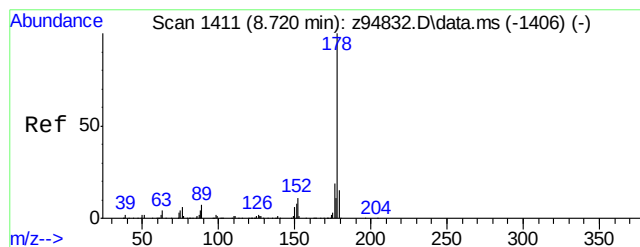
Tgt Ion	Ratio	Lower	Upper
153	100		
152	47.4	16.6	76.6
154	95.7	63.1	123.1



#66
Fluorene
Concen: 56.76 ppb
RT: 7.389 min Scan# 1162
Delta R.T. 0.000 min
Lab File: z95257.D
Acq: 9 Sep 2014 1:11 am

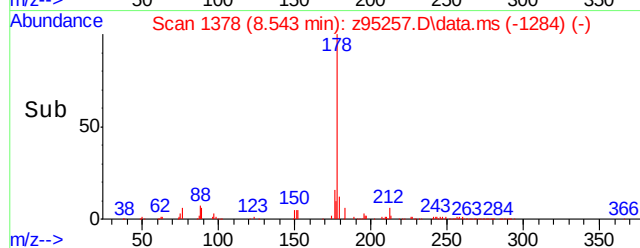
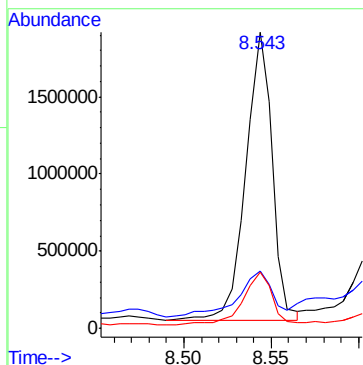
Tgt Ion	Ratio	Lower	Upper
166	100		
165	93.8	64.0	124.0
167	14.3	0.0	43.2





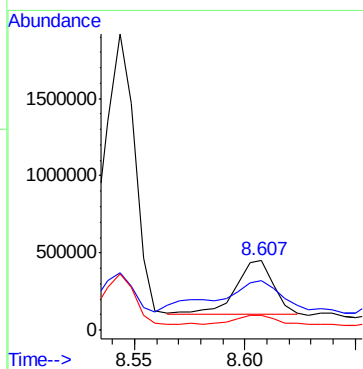
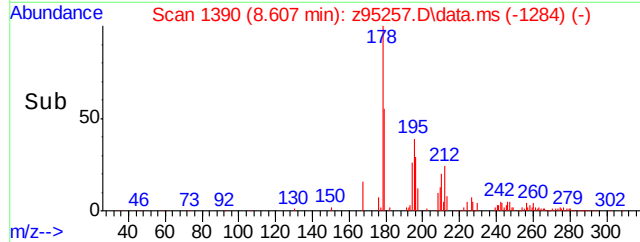
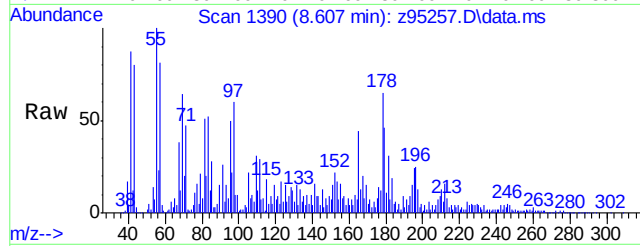
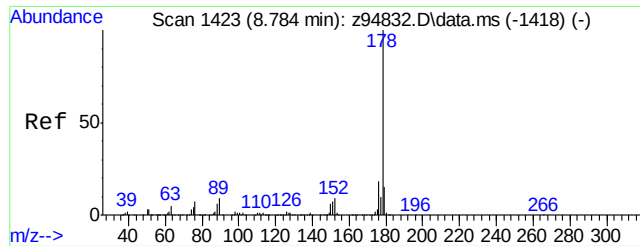
#77
Phenanthrene
Concen: 119.98 ppb
RT: 8.543 min Scan# 1378
Delta R.T. 0.000 min
Lab File: z95257.D
Acq: 9 Sep 2014 1:11 am

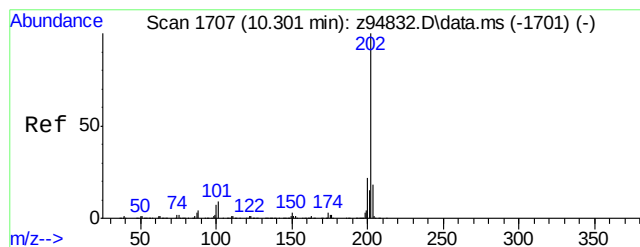
Tgt Ion	Ratio	Lower	Upper
178	100		
179	13.7	0.0	44.0
176	18.3	0.0	48.5



#78
Anthracene
Concen: 24.76 ppb m
RT: 8.607 min Scan# 1390
Delta R.T. 0.064 min
Lab File: z95257.D
Acq: 9 Sep 2014 1:11 am

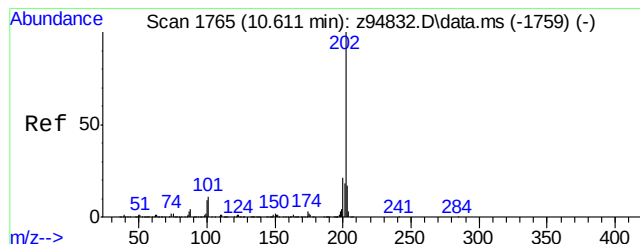
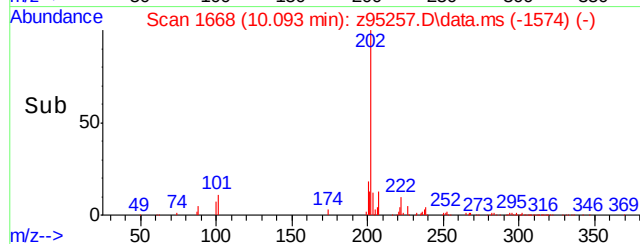
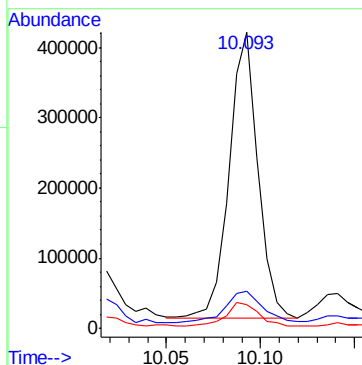
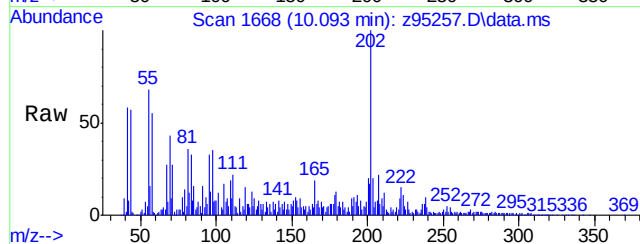
Tgt Ion	Ratio	Lower	Upper
178	100		
179	71.1	0.0	44.9#
176	21.6	0.0	48.4





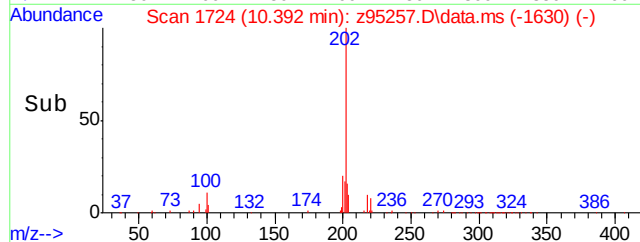
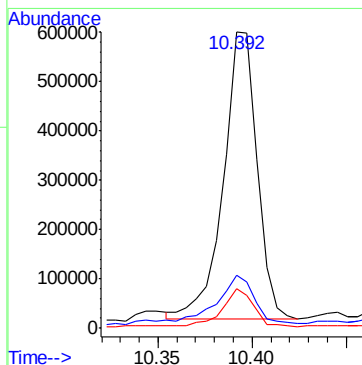
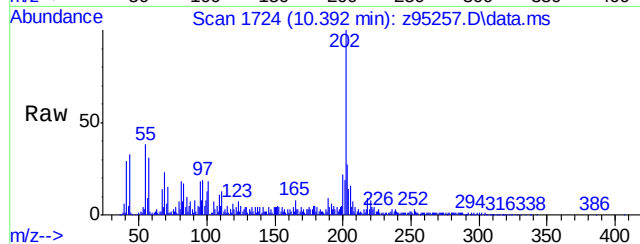
#81
Fluoranthene
Concen: 22.08 ppb
RT: 10.093 min Scan# 1668
Delta R.T. 0.000 min
Lab File: z95257.D
Acq: 9 Sep 2014 1:11 am

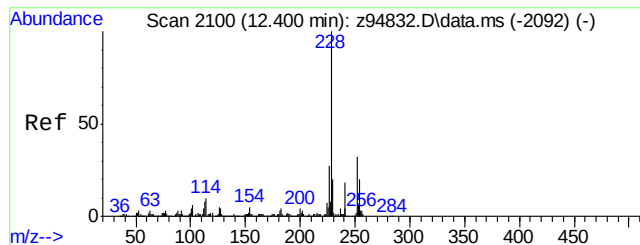
Tgt Ion:	202	Resp:	426339
Ion Ratio	Lower	Upper	
202	100		
101	10.6	0.0	38.1
100	7.4	0.0	36.3



#84
Pyrene
Concen: 35.58 ppb
RT: 10.392 min Scan# 1724
Delta R.T. 0.000 min
Lab File: z95257.D
Acq: 9 Sep 2014 1:11 am

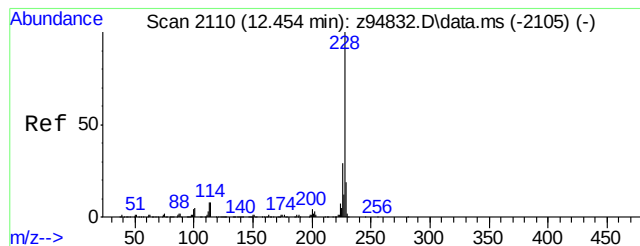
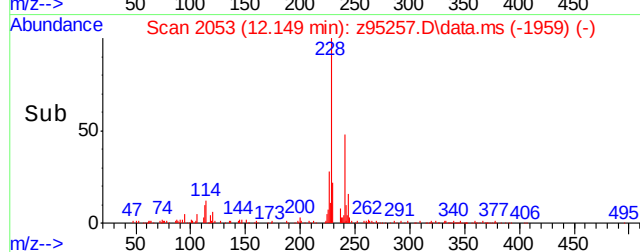
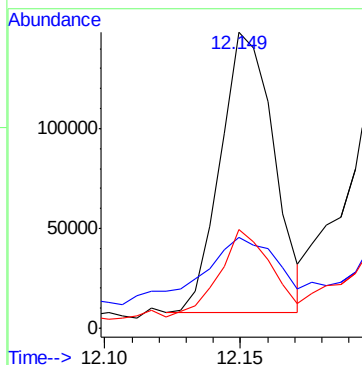
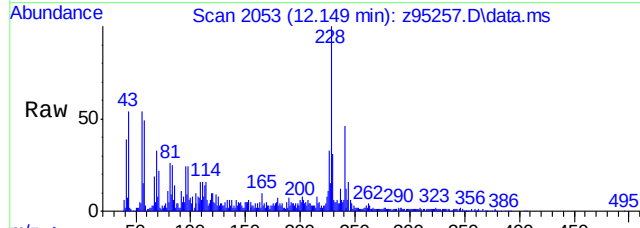
Tgt Ion:	202	Resp:	722786
Ion Ratio	Lower	Upper	
202	100		
101	16.3	0.0	38.3
100	13.1	0.0	37.2





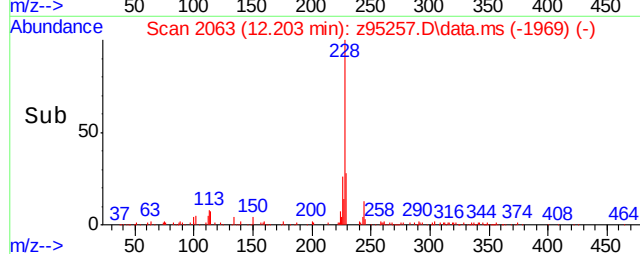
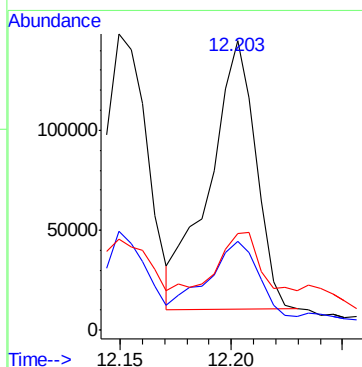
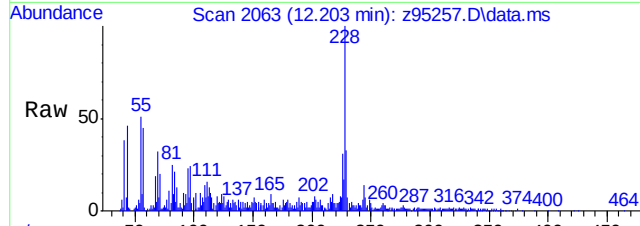
#88
Benzo[a]anthracene
Concen: 9.35 ppb
RT: 12.149 min Scan# 2053
Delta R.T. 0.000 min
Lab File: z95257.D
Acq: 9 Sep 2014 1:11 am

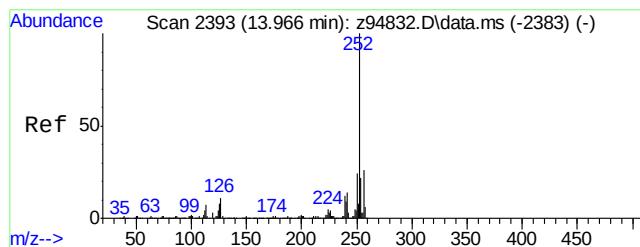
Tgt Ion:	228	Resp:	192010
Ion Ratio	Lower	Upper	
228	100		
229	20.5	0.0	49.8
226	31.2	0.0	57.5



#90
Chrysene
Concen: 10.23 ppb
RT: 12.203 min Scan# 2063
Delta R.T. 0.000 min
Lab File: z95257.D
Acq: 9 Sep 2014 1:11 am

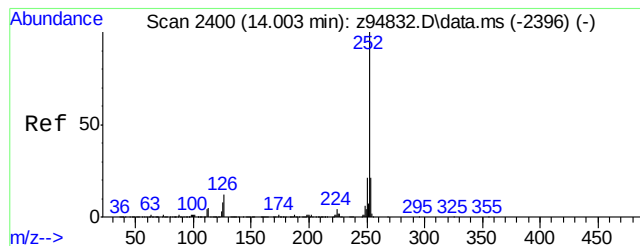
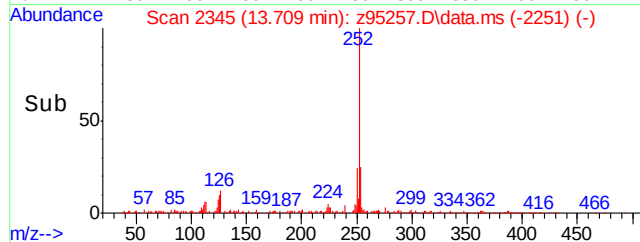
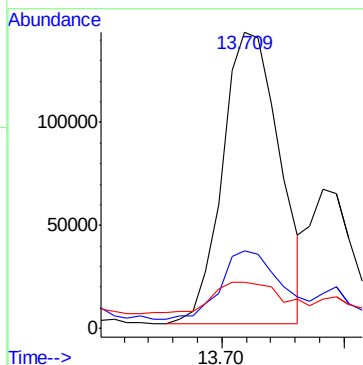
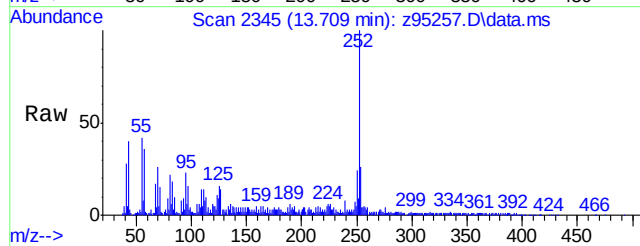
Tgt Ion:	228	Resp:	194883
Ion Ratio	Lower	Upper	
228	100		
226	27.8	0.0	59.4
229	23.2	0.0	49.7





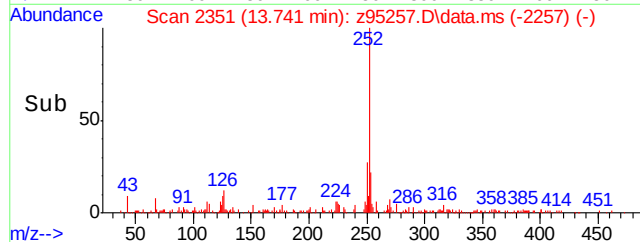
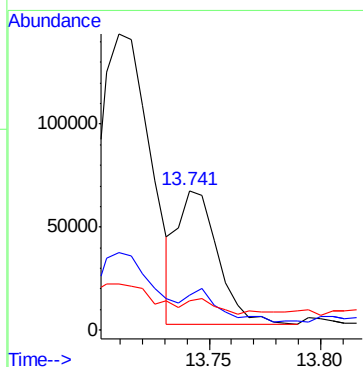
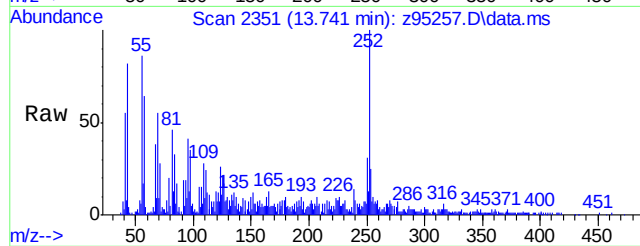
#94
Benzo[b]fluoranthene
Concen: 10.41 ppb
RT: 13.709 min Scan# 2345
Delta R.T. 0.000 min
Lab File: z95257.D
Acq: 9 Sep 2014 1:11 am

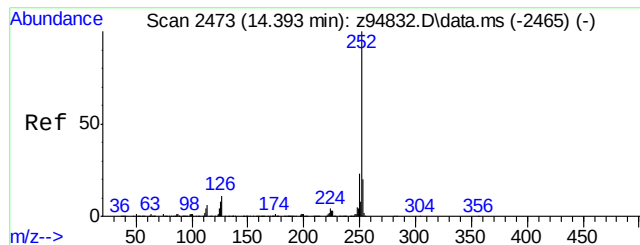
Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.1	0.0	52.2
125	9.7	0.0	36.1



#95
Benzo[k]fluoranthene
Concen: 3.84 ppb
RT: 13.741 min Scan# 2351
Delta R.T. 0.000 min
Lab File: z95257.D
Acq: 9 Sep 2014 1:11 am

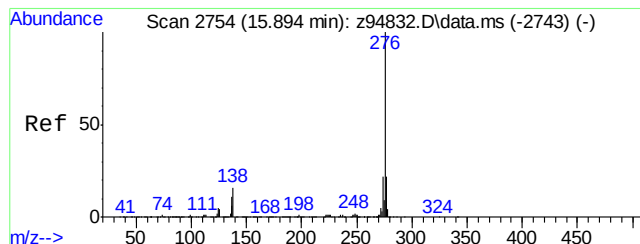
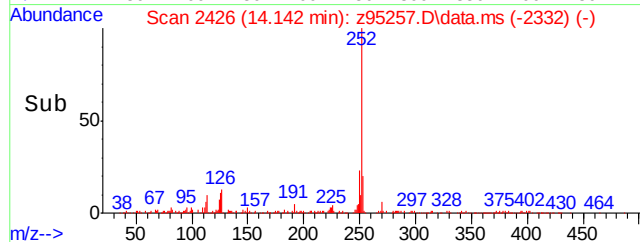
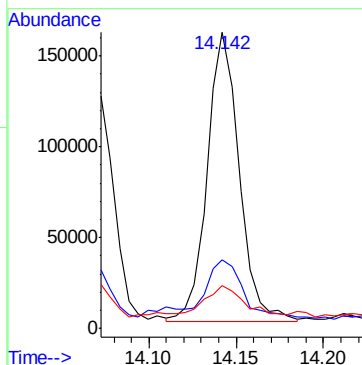
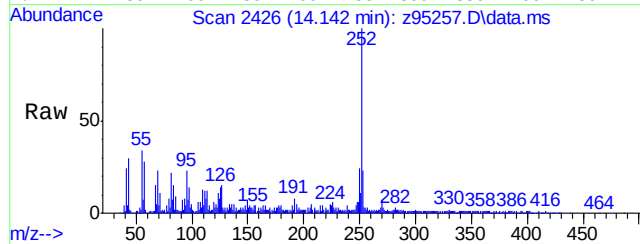
Tgt Ion	Ratio	Lower	Upper
252	100		
253	15.9	0.0	50.8
125	6.0	0.0	36.8





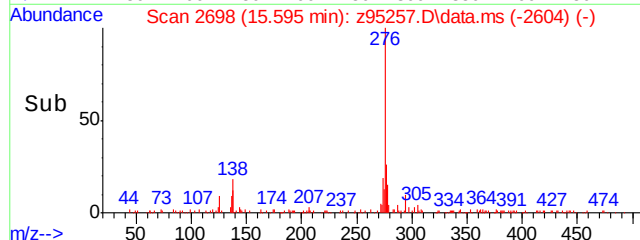
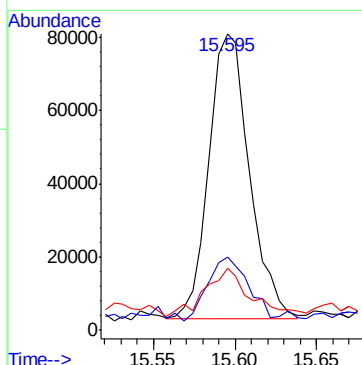
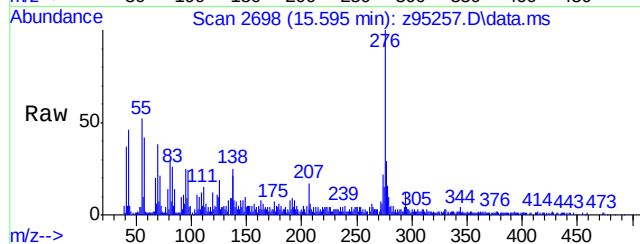
#96
Benzo[a]pyrene
Concen: 10.51 ppb
RT: 14.142 min Scan# 2426
Delta R.T. 0.000 min
Lab File: z95257.D
Acq: 9 Sep 2014 1:11 am

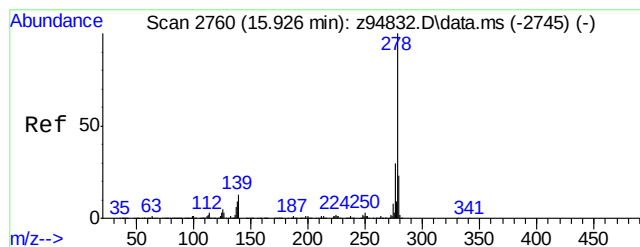
Tgt Ion:	252	Resp:	203654
Ion Ratio	Lower	Upper	
252	100		
253	18.3	0.0	51.8
125	9.2	0.0	36.8



#97
Indeno[1,2,3-cd]pyrene
Concen: 6.96 ppb
RT: 15.595 min Scan# 2698
Delta R.T. 0.000 min
Lab File: z95257.D
Acq: 9 Sep 2014 1:11 am

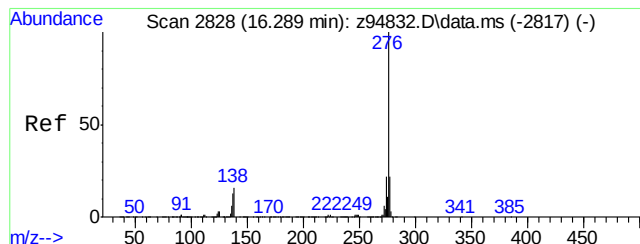
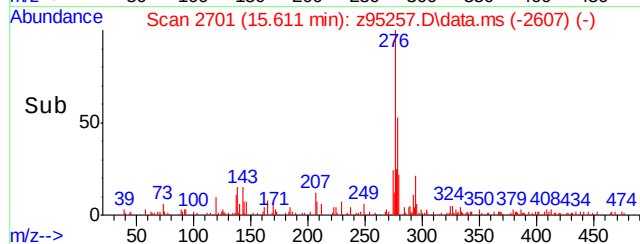
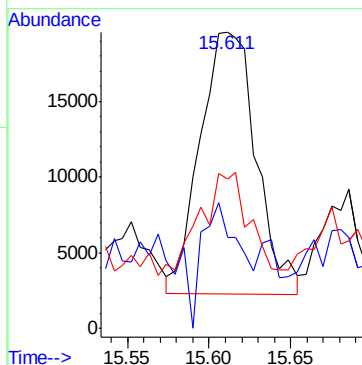
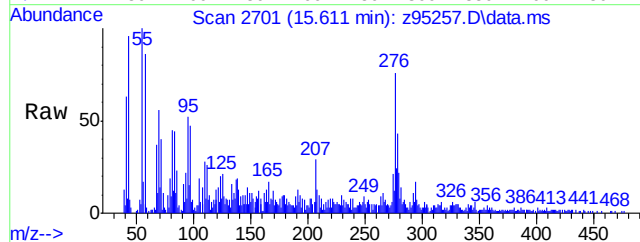
Tgt Ion:	276	Resp:	134982
Ion Ratio	Lower	Upper	
276	100		
138	21.6	0.0	45.0
137	16.0	0.0	40.0





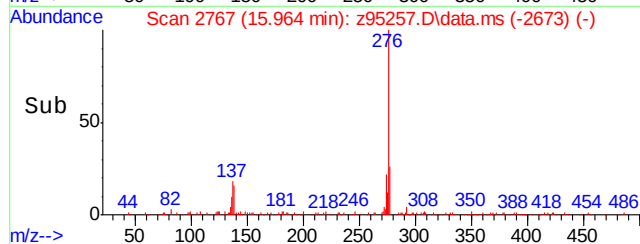
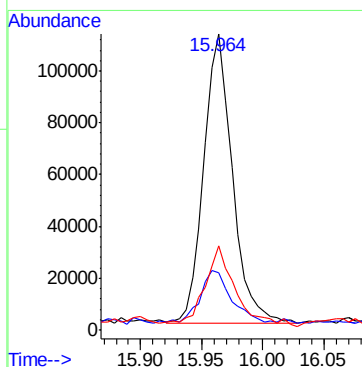
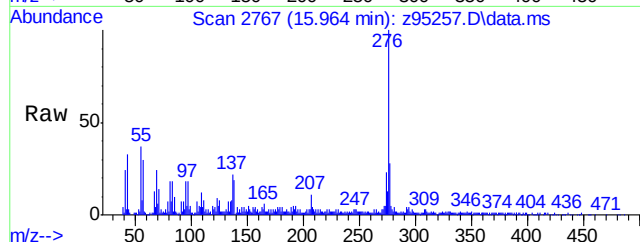
#99
Dibenzo[a,h]anthracene
Concen: 2.17 ppb
RT: 15.611 min Scan# 2701
Delta R.T. 0.000 min
Lab File: z95257.D
Acq: 9 Sep 2014 1:11 am

Tgt Ion	Ratio	Lower	Upper
278	100		
139	11.8	0.0	42.1
279	33.1	0.0	53.7



#101
Benzo[g,h,i]perylene
Concen: 9.42 ppb
RT: 15.964 min Scan# 2767
Delta R.T. 0.000 min
Lab File: z95257.D
Acq: 9 Sep 2014 1:11 am

Tgt Ion	Ratio	Lower	Upper
276	100		
138	17.5	0.0	44.7
277	27.2	0.0	54.5



Manual Integration Approval Summary

Sample Number: JB75844-5

Method: SW846 8270D

Lab FileID: Z95257.D

Analyst approved: 09/09/14 10:13 Andrew Lee Smith

Injection Time: 09/09/14 01:11

Supervisor approved: 09/09/14 11:35 Nina Pandya

Parameter	CAS	Sig#	R.T. (min.)	Reason
Anthracene	120-12-7		8.61	Poor instrument integration

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P1697\
Data File : 2p40506.D
Acq On : 9 Sep 2014 9:40 am
Operator : samtap
Sample : jB75844-6
Misc : op77878,e2p1697,1000
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 09 10:43:55 2014
Quant Method : C:\MSDCHEM\1\METHODS\M2P1691.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri Sep 05 20:04:39 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.630	152	401852	40.00	ppb	-0.02
24) Naphthalene-d8	5.678	136	1534155	40.00	ppb	-0.02
47) Acenaphthene-d10	7.117	164	876040	40.00	ppb	-0.02
69) Phenanthrene-d10	8.406	188	1466392	40.00	ppb	-0.02
83) Chrysene-d12	11.685	240	1433036	40.00	ppb	-0.03
92) Perylene-d12	13.696	264	1271484	40.00	ppb	-0.03
102) 1,4-Dichlorobenzene-d4a	4.630	152	401852	40.00	ppb	-0.02
104) Acenaphthene-d10a	7.117	164	876040	40.00	ppb	-0.02
107) Chrysene-d12a	11.685	240	1433036	40.00	ppb	-0.03
System Monitoring Compounds						
5) 2-Fluorophenol	0.000	112	0	0.00	ppb	
Spiked Amount	50.000	Range 11 - 58	Recovery =		0.00%#	
8) Phenol-d5	0.000	99	0d	0.00	ppb	
Spiked Amount	50.000	Range 10 - 59	Recovery =		0.00%#	
25) Nitrobenzene-d5	5.095	82	417354	33.71	ppb	-0.02
Spiked Amount	50.000	Range 19 - 61	Recovery =		67.42%#	
51) 2-Fluorobiphenyl	6.566	172	953800	33.44	ppb	-0.02
Spiked Amount	50.000	Range 21 - 58	Recovery =		66.88%#	
73) 2,4,6-Tribromophenol	0.000	330	0	0.00	ppb	
Spiked Amount	50.000	Range 12 - 68	Recovery =		0.00%#	
85) Terphenyl-d14	10.241	244	627321	21.15	ppb	-0.04
Spiked Amount	50.000	Range 16 - 65	Recovery =		42.30%	
Target Compounds						
						Qvalue

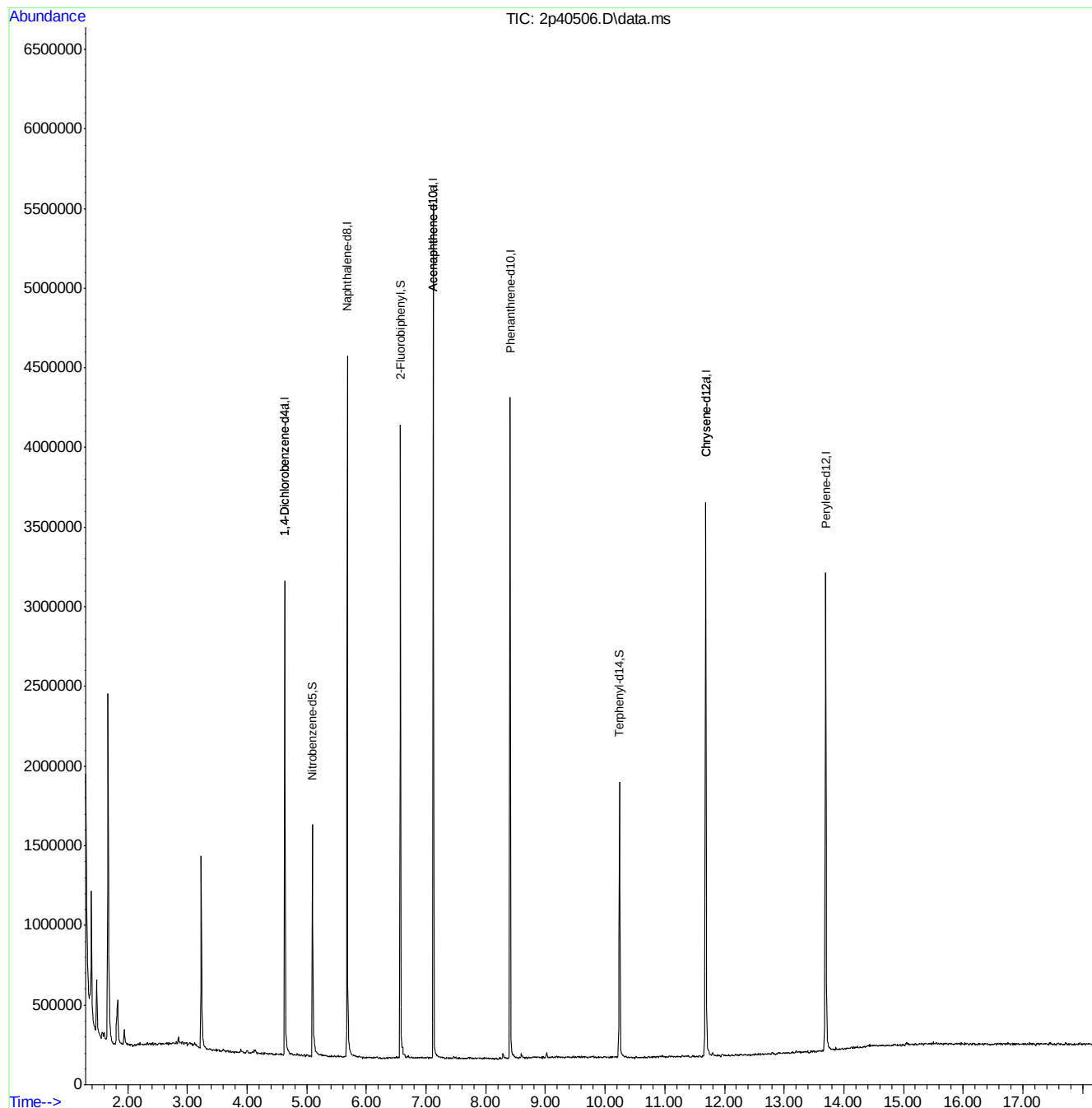
(#) = qualifier out of range (m) = manual integration (+) = signals summed

9.1.8
9

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P1697\
Data File : 2p40506.D
Acq On : 9 Sep 2014 9:40 am
Operator : samtap
Sample : jb75844-6
Misc : op77878,e2p1697,1000
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 09 10:43:55 2014
Quant Method : C:\MSDCHEM\1\METHODS\M2P1691.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri Sep 05 20:04:39 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ez4729\
 Data File : z95249.D
 Acq On : 8 Sep 2014 9:31 pm
 Operator : saraw
 Sample : op77866-mb1
 Misc : op77866,ez4729,35.0
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 09 07:57:03 2014
 Quant Method : C:\MSDCHEM\1\METHODS\MZ4711.M
 Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
 QLast Update : Tue Sep 09 07:54:10 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	3.313	152	433208	40.00	ppb	0.00
24) Naphthalene-d8	4.633	136	1593776	40.00	ppb	0.00
47) Acenaphthene-d10	6.679	164	1000893	40.00	ppb	0.00
69) Phenanthrene-d10	8.468	188	1753128	40.00	ppb	0.00
83) Chrysene-d12	12.155	240	1978350	40.00	ppb	0.00
92) Perylene-d12	14.206	264	1845315	40.00	ppb	0.00
102) 1,4-Dichlorobenzene-d4a	3.313	152	433208	40.00	ppb	0.00
104) Phenanthrene-d10a	8.468	188	1753128	40.00	ppb	0.00
106) Chrysene-d12a	12.155	240	1978350	40.00	ppb	0.00
108) Acenaphthene-d10a	6.679	164	1000893	40.00	ppb	0.00
110) Naphthalene-d8a	4.633	136	1593776	40.00	ppb	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	2.261	112	326538	24.18	ppb	0.00
Spiked Amount 50.000			Recovery =	48.36%		
8) Phenol-d5	3.003	99	457465	26.99	ppb	0.00
Spiked Amount 50.000			Recovery =	53.98%		
25) Nitrobenzene-d5	3.869	82	457159	26.12	ppb	0.00
Spiked Amount 50.000			Recovery =	52.24%		
51) 2-Fluorobiphenyl	5.899	172	807365	21.97	ppb	0.00
Spiked Amount 50.000			Recovery =	43.94%		
73) 2,4,6-Tribromophenol	7.640	330	141895	20.03	ppb	0.00
Spiked Amount 50.000			Recovery =	40.06%		
86) Terphenyl-d14	10.637	244	1077891	24.90	ppb	0.00
Spiked Amount 50.000			Recovery =	49.80%		

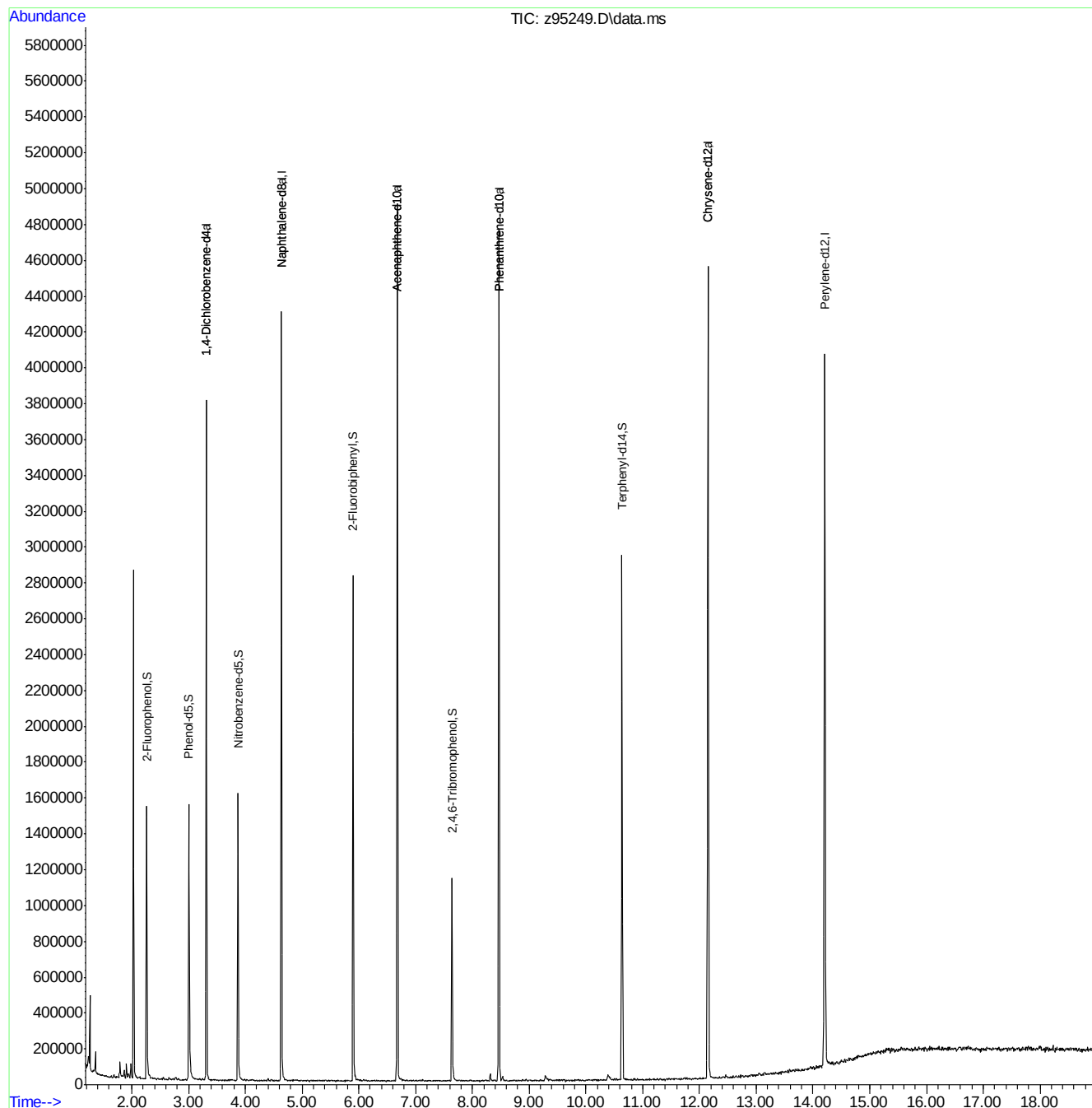
Target Compounds Qvalue

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ez4729\
Data File : z95249.D
Acq On : 8 Sep 2014 9:31 pm
Operator : saraw
Sample : op77866-mb1
Misc : op77866,ez4729,35.0
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 09 07:57:03 2014
Quant Method : C:\MSDCHEM\1\METHODS\MZ4711.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Tue Sep 09 07:54:10 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P1697\
 Data File : 2p40504.D
 Acq On : 9 Sep 2014 8:55 am
 Operator : samtap
 Sample : op77878-mb1
 Misc : op77878,e2p1697,1000
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 09 10:38:10 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M2P1691.M
 Quant Title : Semi Volatile Extractables by GC/MS
 QLast Update : Fri Sep 05 20:04:39 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.635	152	398327	40.00	ppb	-0.01
24) Naphthalene-d8	5.683	136	1528896	40.00	ppb	-0.01
47) Acenaphthene-d10	7.128	164	871892	40.00	ppb	-0.01
69) Phenanthrene-d10	8.411	188	1464652	40.00	ppb	-0.02
83) Chrysene-d12	11.701	240	1427724	40.00	ppb	-0.02
92) Perylene-d12	13.712	264	1249877	40.00	ppb	-0.02
102) 1,4-Dichlorobenzene-d4a	4.635	152	398327	40.00	ppb	-0.01
104) Acenaphthene-d10a	7.128	164	871892	40.00	ppb	-0.01
107) Chrysene-d12a	11.701	240	1427724	40.00	ppb	-0.02
System Monitoring Compounds						
5) 2-Fluorophenol	3.576	112	278577	26.02	ppb	0.00
Spiked Amount 50.000	Range 11	- 58	Recovery	=	52.04%	
8) Phenol-d5	4.400	99	237805	17.48	ppb	0.00
Spiked Amount 50.000	Range 10	- 59	Recovery	=	34.96%	
25) Nitrobenzene-d5	5.100	82	454595	36.85	ppb	-0.02
Spiked Amount 50.000	Range 19	- 61	Recovery	=	73.70%#	
51) 2-Fluorobiphenyl	6.571	172	1017949	35.86	ppb	-0.02
Spiked Amount 50.000	Range 21	- 58	Recovery	=	71.72%#	
73) 2,4,6-Tribromophenol	7.785	330	186956	43.56	ppb	-0.02
Spiked Amount 50.000	Range 12	- 68	Recovery	=	87.12%#	
85) Terphenyl-d14	10.257	244	1292744	43.74	ppb	-0.02
Spiked Amount 50.000	Range 16	- 65	Recovery	=	87.48%#	

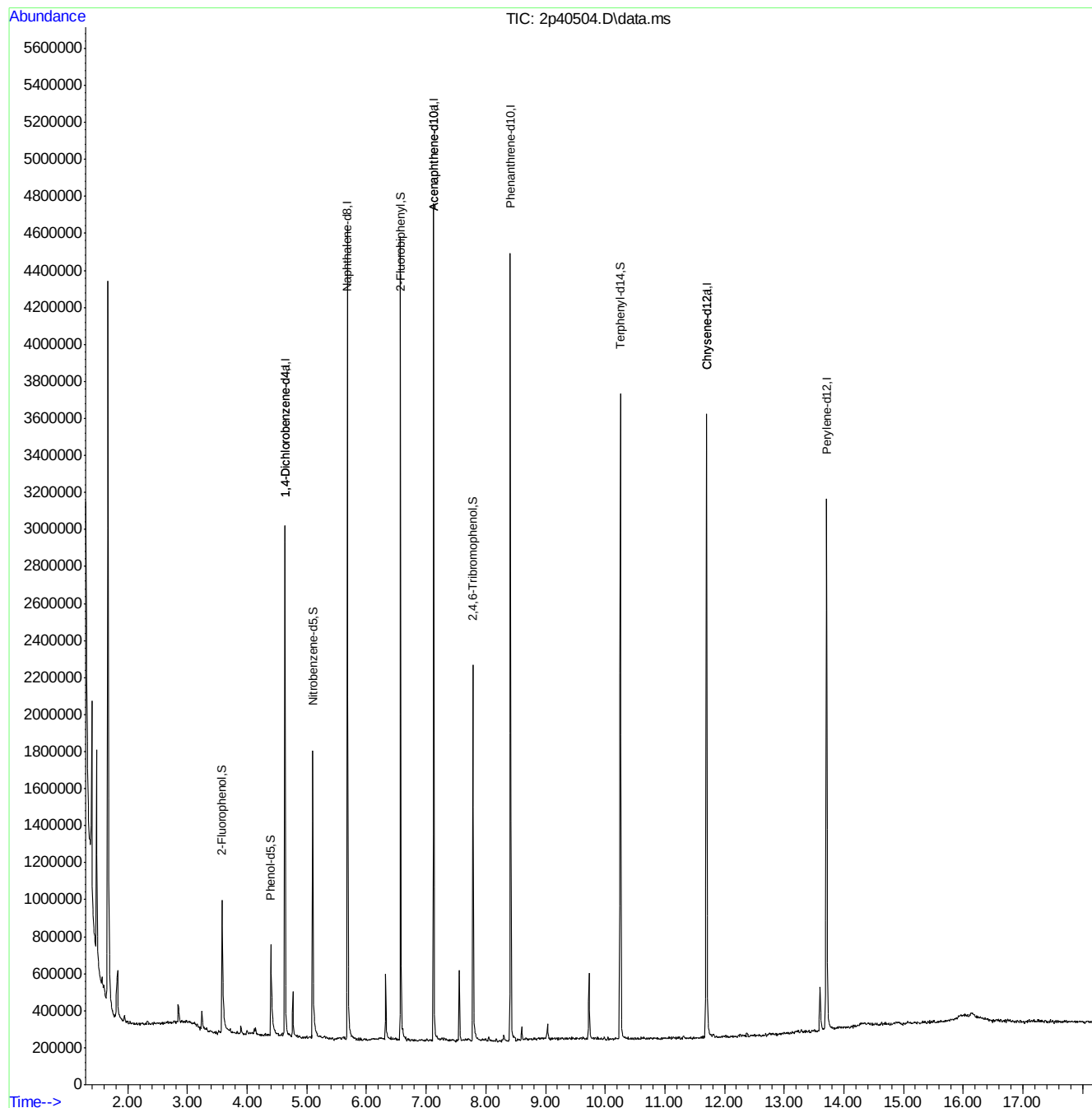
Target Compounds Qvalue

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P1697\
Data File : 2p40504.D
Acq On : 9 Sep 2014 8:55 am
Operator : samtap
Sample : op77878-mb1
Misc : op77878,e2p1697,1000
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 09 10:38:10 2014
Quant Method : C:\MSDCHEM\1\METHODS\M2P1691.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri Sep 05 20:04:39 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P1697\
 Data File : 2p40507.D
 Acq On : 9 Sep 2014 10:02 am
 Operator : samtap
 Sample : op77866-mb1
 Misc : op77866,e2p1697,35.0
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 09 10:51:13 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M2P1691.M
 Quant Title : Semi Volatile Extractables by GC/MS
 QLast Update : Fri Sep 05 20:04:39 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.630	152	376316	40.00	ppb	-0.02
24) Naphthalene-d8	5.678	136	1422912	40.00	ppb	-0.02
47) Acenaphthene-d10	7.117	164	817639	40.00	ppb	-0.02
69) Phenanthrene-d10	8.406	188	1355281	40.00	ppb	-0.02
83) Chrysene-d12	11.685	240	1325004	40.00	ppb	-0.03
92) Perylene-d12	13.696	264	1136811	40.00	ppb	-0.03
102) 1,4-Dichlorobenzene-d4a	4.630	152	376316	40.00	ppb	-0.02
104) Acenaphthene-d10a	7.117	164	817639	40.00	ppb	-0.02
107) Chrysene-d12a	11.685	240	1325004	40.00	ppb	-0.03

System Monitoring Compounds

5) 2-Fluorophenol	3.576	112	486630	48.12	ppb	0.00
Spiked Amount 50.000	Range 11	- 58	Recovery =	96.24%#		
8) Phenol-d5	4.389	99	576630	44.88	ppb	-0.01
Spiked Amount 50.000	Range 10	- 59	Recovery =	89.76%#		
25) Nitrobenzene-d5	5.095	82	540551	47.08	ppb	-0.02
Spiked Amount 50.000	Range 19	- 61	Recovery =	94.16%#		
51) 2-Fluorobiphenyl	6.566	172	1214421	45.62	ppb	-0.02
Spiked Amount 50.000	Range 21	- 58	Recovery =	91.24%#		
73) 2,4,6-Tribromophenol	7.780	330	181764	45.76	ppb	-0.03
Spiked Amount 50.000	Range 12	- 68	Recovery =	91.52%#		
85) Terphenyl-d14	10.240	244	1369375	49.93	ppb	-0.04
Spiked Amount 50.000	Range 16	- 65	Recovery =	99.86%#		

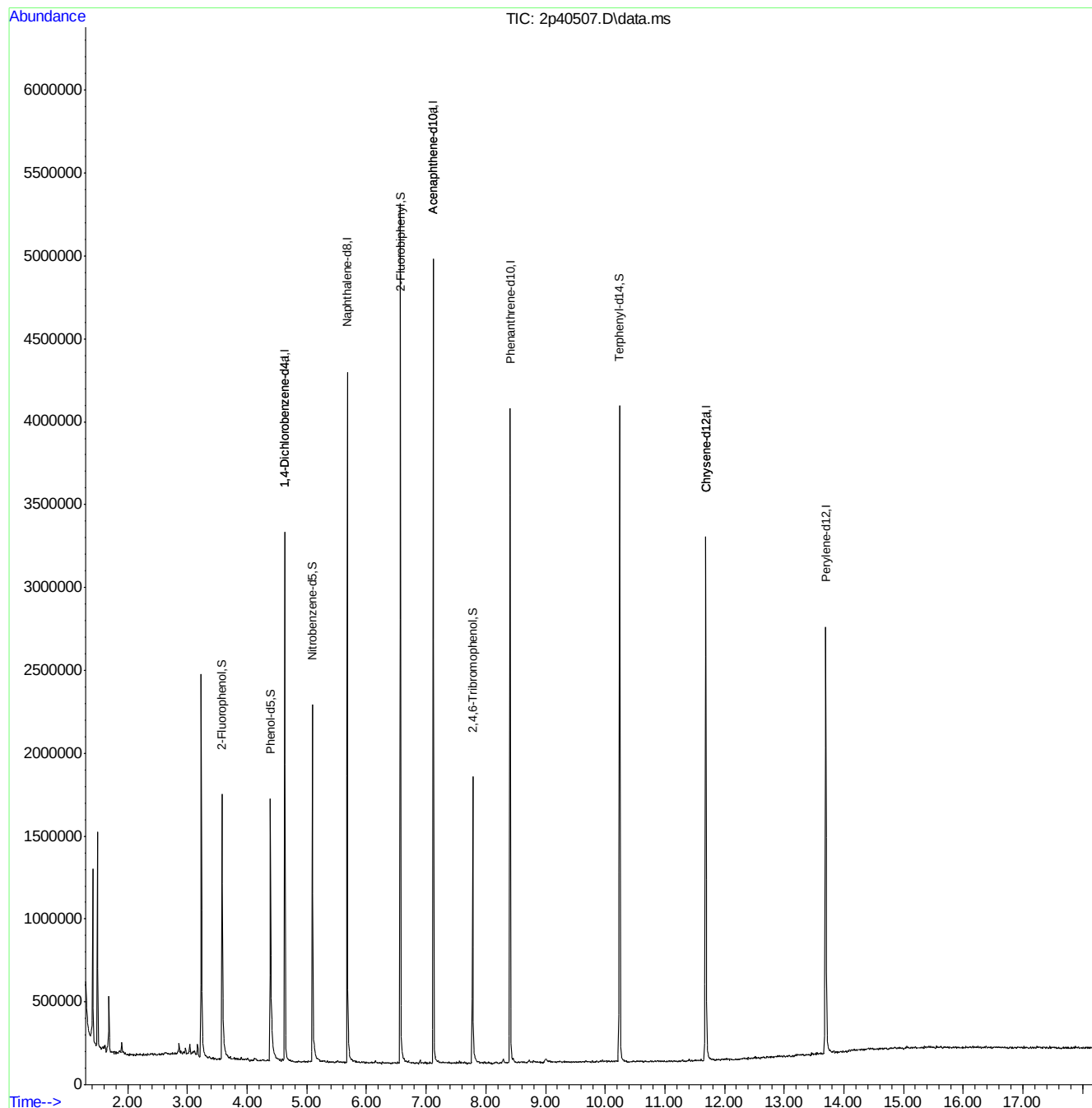
Target Compounds Qvalue

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P1697\
Data File : 2p40507.D
Acq On : 9 Sep 2014 10:02 am
Operator : samtap
Sample : op77866-mb1
Misc : op77866,e2p1697,35.0
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 09 10:51:13 2014
Quant Method : C:\MSDCHEM\1\METHODS\M2P1691.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri Sep 05 20:04:39 2014
Response via : Initial Calibration



Quantitation Report (QT/LSC Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP3796\P88856.D Vial: 4
 Acq On : 9 Sep 2014 5:33 pm Operator: ashleyd
 Sample : op77878-mb1 Inst : MSP
 Misc : op77878,ep3796,1000 Multiplr: 1.00
 MS Integration Params: rteint.p
 Quant Time: Sep 09 17:55:25 2014 Quant Results File: MP3770.RES

Quant Method : C:\MSDCHEM\1\METHODS\MP3770.M (RTE Integrator)
 Title : Semi Volatile Extractables by GC/MS
 Last Update : Sat Sep 06 12:29:44 2014
 Response via : Initial Calibration
 DataAcq Meth : MP3770

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.25	152	44005	40.00	ppb	-0.04
24) Naphthalene-d8	5.99	136	156331	40.00	ppb	-0.05
47) Acenaphthene-d10	8.70	164	84745	40.00	ppb	-0.06
69) Phenanthrene-d10	11.05	188	134053	40.00	ppb	-0.06
83) Chrysene-d12	15.73	240	129963	40.00	ppb	-0.08
92) Perylene-d12	18.28	264	125936	40.00	ppb	-0.07
102) 1,4-Dichlorobenzene-d4b	4.25	152	44005	40.00	ppb	-0.04
104) Phenanthrene-d10b	11.05	188	134053	40.00	ppb	0.05
106) Chrysene-d12b	15.73	240	129963	40.00	ppb	-0.08
108) Naphthalene-d8b	5.99	136	156331	40.00	ppb	-0.05
110) Acenaphthene-d10b	8.70	164	84745	40.00	ppb	-0.06

System Monitoring Compounds

5) 2-Fluorophenol	2.87	112	38384	22.65	ppb	-0.04
Spiked Amount 50.000			Recovery =	45.30%		
8) Phenol-d5	3.84	99	34621	16.56	ppb	-0.05
Spiked Amount 50.000			Recovery =	33.12%		
25) Nitrobenzene-d5	4.97	82	52821	33.65	ppb	-0.05
Spiked Amount 50.000			Recovery =	67.30%		
51) 2-Fluorobiphenyl	7.67	172	102746	34.96	ppb	-0.06
Spiked Amount 50.000			Recovery =	69.92%		
73) 2,4,6-Tribromophenol	9.96	330	14814	43.05	ppb	-0.06
Spiked Amount 50.000			Recovery =	86.10%		
85) Terphenyl-d14	13.85	244	114874	38.28	ppb	-0.06
Spiked Amount 50.000			Recovery =	76.56%		

Target Compounds

Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 P88856.D MP3770.M Wed Sep 10 15:38:16 2014

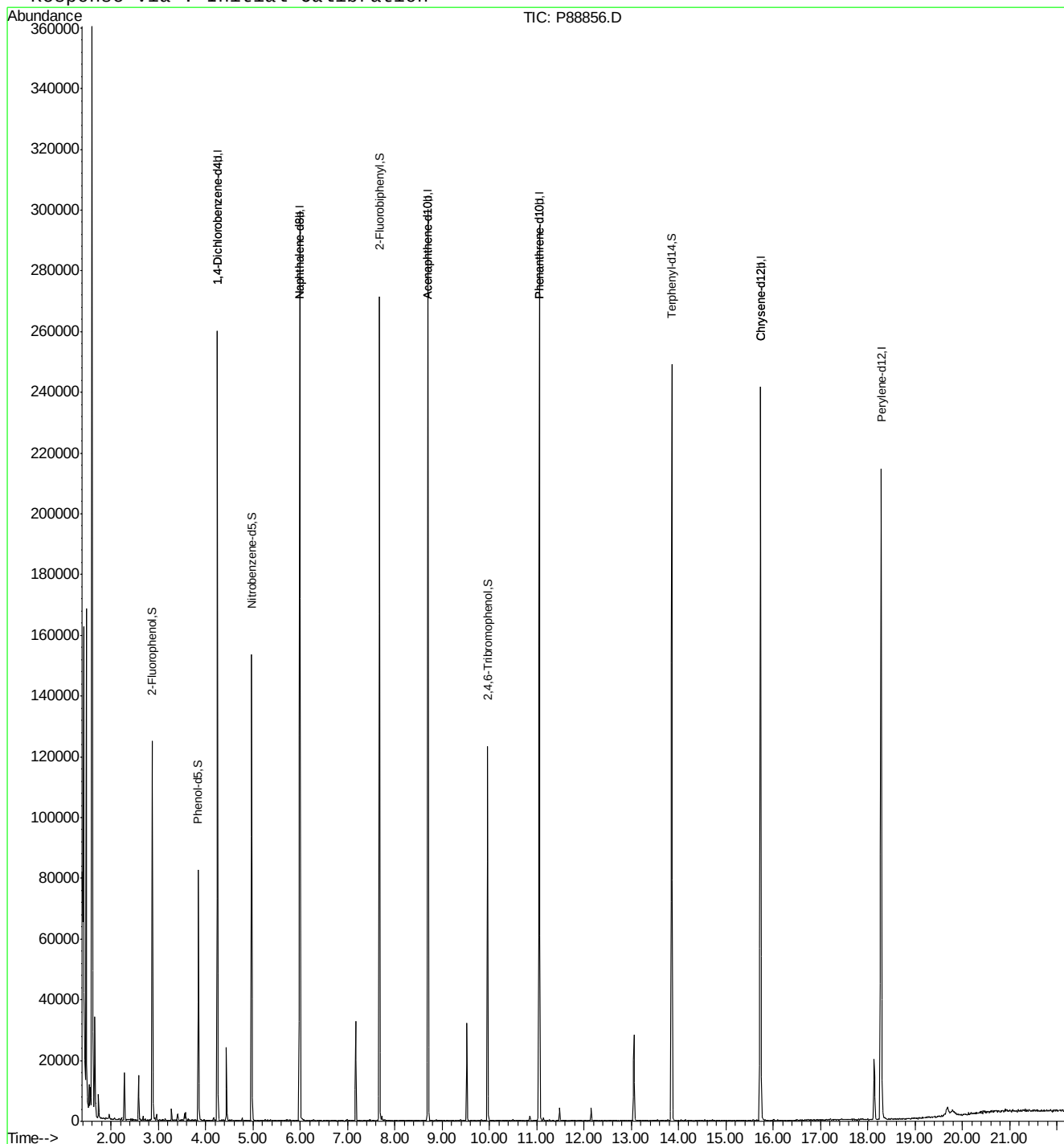
Quantitation Report (QT/LSC Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP3796\P88856.D
Acq On : 9 Sep 2014 5:33 pm
Sample : op77878-mb1
Misc : op77878,ep3796,1000
MS Integration Params: rteint.p
Quant Time: Sep 10 14:51 2014

Vial: 4
Operator: ashleyd
Inst : MSP
Multiplr: 1.00

Quant Results File: MP3770.RES

Method : C:\MSDCHEM\1\METHODS\MP3770.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Sat Sep 06 12:29:44 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P1697\
 Data File : 2p40505.D
 Acq On : 9 Sep 2014 9:17 am
 Operator : samtap
 Sample : op77878-bs1
 Misc : op77878,e2p1697,1000
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 09 10:43:10 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M2P1691.M
 Quant Title : Semi Volatile Extractables by GC/MS
 QLast Update : Tue Sep 09 10:42:55 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.630	152	357989	40.00	ppb	0.00
24) Naphthalene-d8	5.684	136	1297457	40.00	ppb	0.00
47) Acenaphthene-d10	7.122	164	750427	40.00	ppb	0.00
69) Phenanthrene-d10	8.406	188	1257681	40.00	ppb	0.00
83) Chrysene-d12	11.690	240	1235312	40.00	ppb	0.00
92) Perylene-d12	13.701	264	1039516	40.00	ppb	0.00
102) 1,4-Dichlorobenzene-d4a	4.630	152	357989	40.00	ppb	0.00
104) Acenaphthene-d10a	7.122	164	750427	40.00	ppb	0.00
107) Chrysene-d12a	11.690	240	1235312	40.00	ppb	0.00

System Monitoring Compounds

5) 2-Fluorophenol	3.581	112	303152	31.51	ppb	0.00
Spiked Amount	50.000	Range 11 - 58	Recovery =	63.02%#		
8) Phenol-d5	4.400	99	281246	23.01	ppb	0.00
Spiked Amount	50.000	Range 10 - 59	Recovery =	46.02%		
25) Nitrobenzene-d5	5.101	82	440419	42.07	ppb	0.00
Spiked Amount	50.000	Range 19 - 61	Recovery =	84.14%#		
51) 2-Fluorobiphenyl	6.566	172	1013659	41.49	ppb	0.00
Spiked Amount	50.000	Range 21 - 58	Recovery =	82.98%#		
73) 2,4,6-Tribromophenol	7.780	330	173913	47.19	ppb	0.00
Spiked Amount	50.000	Range 12 - 68	Recovery =	94.38%#		
85) Terphenyl-d14	10.241	244	1251253	48.93	ppb	0.00
Spiked Amount	50.000	Range 16 - 65	Recovery =	97.86%#		

Target Compounds

						Qvalue
2) 1,4-Dioxane	1.913	88	77676	21.77	ppb	97
3) Pyridine	2.276	79	153608	16.49	ppb	85
4) N-Nitrosodimethylamine	2.239	74	125328	23.78	ppb	78
6) Indene	4.844	116	692534	37.98	ppb	98
7) Cumene	3.956	105	812673	29.91	ppb	96
9) Phenol	4.411	94	311227	22.60	ppb	94
10) Aniline	4.368	93	408423	26.41	ppb	91
11) bis(2-Chloroethyl)ether	4.421	93	353098	39.46	ppb	98
12) 2-Chlorophenol	4.480	128	493654	39.70	ppb	98
13) Decane	4.507	57	321413	25.59	ppb	97
14) 1,3-Dichlorobenzene	4.587	146	285012	20.25	ppb	100
15) 1,4-Dichlorobenzene	4.646	146	304015	21.16	ppb	99
16) Benzyl alcohol	4.769	108	256994	37.21	ppb	96
17) 1,2-Dichlorobenzene	4.774	146	314698	23.73	ppb	100
18) Acetophenone	4.972	105	561854	37.42	ppb	72
19) 2-Methylphenol	4.887	108	367640	39.22	ppb	95
20) 2,2'-oxybis(1-Chloropr...	4.865	121	114617	37.28	ppb	# 86
21) 3&4-Methylphenol	5.015	108	372134	37.69	ppb	97
22) n-Nitroso-di-n-propyla...	4.977	70	271216	41.45	ppb	93
23) Hexachloroethane	5.047	201	99462	18.54	ppb	94
26) Nitrobenzene	5.111	77	386831	37.12	ppb	90
27) Quinoline	5.983	129	784399	37.65	ppb	99
28) Isophorone	5.309	82	680044	39.62	ppb	95
29) 2-Nitrophenol	5.379	139	281567	41.93	ppb	83

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P1697\
 Data File : 2p40505.D
 Acq On : 9 Sep 2014 9:17 am
 Operator : samtap
 Sample : op77878-bs1
 Misc : op77878,e2p1697,1000
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 09 10:43:10 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M2P1691.M
 Quant Title : Semi Volatile Extractables by GC/MS
 QLast Update : Tue Sep 09 10:42:55 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
30) 2,4-Dimethylphenol	5.437	107	447153	43.07	ppb	99
31) Benzoic acid	5.560	105	205093	30.13	ppb	92
32) bis(2-Chloroethoxy)met...	5.491	93	439817	41.59	ppb	99
33) 2,4-Dichlorophenol	5.598	162	440388	44.21	ppb	99
34) 2,6-Dichlorophenol	5.764	162	434707	43.76	ppb	95
36) 1,2,4-Trichlorobenzene	5.641	180	309082	26.88	ppb	97
38) Naphthalene	5.700	128	1032397	30.10	ppb	99
39) 4-Chloroaniline	5.758	127	442310	31.07	ppb	99
40) 2,3-Dichloroaniline	6.507	161	477892	38.48	ppb	98
41) Caprolactam	6.047	113	41522	14.46	ppb	81
42) Hexachlorobutadiene	5.801	225	141299	21.89	ppb	100
43) 4-Chloro-3-methylphenol	6.186	107	423018	45.68	ppb #	26
44) 2-Methylnaphthalene	6.266	141	821453	38.32	ppb	98
45) 1-Methylnaphthalene	6.347	141	773416	38.05	ppb	99
46) Dimethylnaphthalene	6.780	156	775152	38.70	ppb	99
48) Hexachlorocyclopentadiene	6.395	237	238026	53.08	ppb	98
49) 2,4,6-Trichlorophenol	6.518	196	304158	43.01	ppb	97
50) 2,4,5-Trichlorophenol	6.566	196	336041	44.39	ppb	99
52) 2-Chloronaphthalene	6.668	162	762301	35.07	ppb	99
53) Biphenyl	6.652	154	1082557	37.93	ppb	99
54) 2-Nitroaniline	6.764	65	296167	40.96	ppb	90
55) Dimethylphthalate	6.903	163	1046784	43.76	ppb	98
56) Acenaphthylene	7.005	152	1105110	29.44	ppb	100
57) 2,6-Dinitrotoluene	6.962	165	233005	40.86	ppb	99
58) 3-Nitroaniline	7.106	138	243020	35.61	ppb	97
59) Acenaphthene	7.149	153	922347	38.03	ppb	97
60) 2,4-Dinitrophenol	7.203	184	294879	88.19	ppb	92
61) 4-Nitrophenol	7.304	109	106691	37.11	ppb #	1
62) Dibenzofuran	7.293	168	1326517	40.61	ppb	94
63) 2,4-Dinitrotoluene	7.299	165	321298	42.69	ppb	71
64) 2,3,4,6-Tetrachlorophenol	7.411	232	269913	43.56	ppb	95
65) Diethylphthalate	7.481	149	1044437	43.94	ppb	99
66) Fluorene	7.572	166	1061001	41.00	ppb	99
67) 4-Chlorophenyl-phenyle...	7.566	204	508704	44.38	ppb	88
68) 4-Nitroaniline	7.614	138	264400	41.26	ppb	91
70) 4,6-Dinitro-2-methylph...	7.646	198	196145	47.38	ppb	93
71) n-Nitrosodiphenylamine	7.673	169	680587	40.76	ppb	99
72) 1,2-Diphenylhydrazine	7.700	77	893571	45.32	ppb	94
74) 4-Bromophenyl-phenylether	7.983	248	293104	42.82	ppb	93
75) Hexachlorobenzene	8.053	284	350415	42.37	ppb	94
76) Pentachlorophenol	8.251	266	197661	46.85	ppb	98
77) Phenanthrene	8.433	178	1519321	40.40	ppb	100
78) Anthracene	8.481	178	1540288	40.69	ppb	100
79) Carbazole	8.657	167	1574843	48.96	ppb	99
80) Di-n-butylphthalate	9.021	149	1979498	48.90	ppb	99
81) Fluoranthene	9.743	202	1801308	41.38	ppb	99
82) Octadecane	8.304	43	426069	43.17	ppb	90
84) Pyrene	10.021	202	1814439	41.21	ppb	99
86) Butylbenzylphthalate	10.936	149	834050	46.38	ppb	98
88) Benzo[a]anthracene	11.674	228	1602422	40.77	ppb	98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P1697\
 Data File : 2p40505.D
 Acq On : 9 Sep 2014 9:17 am
 Operator : samtap
 Sample : op77878-bs1
 Misc : op77878,e2p1697,1000
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 09 10:43:10 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M2P1691.M
 Quant Title : Semi Volatile Extractables by GC/MS
 QLast Update : Tue Sep 09 10:42:55 2014
 Response via : Initial Calibration

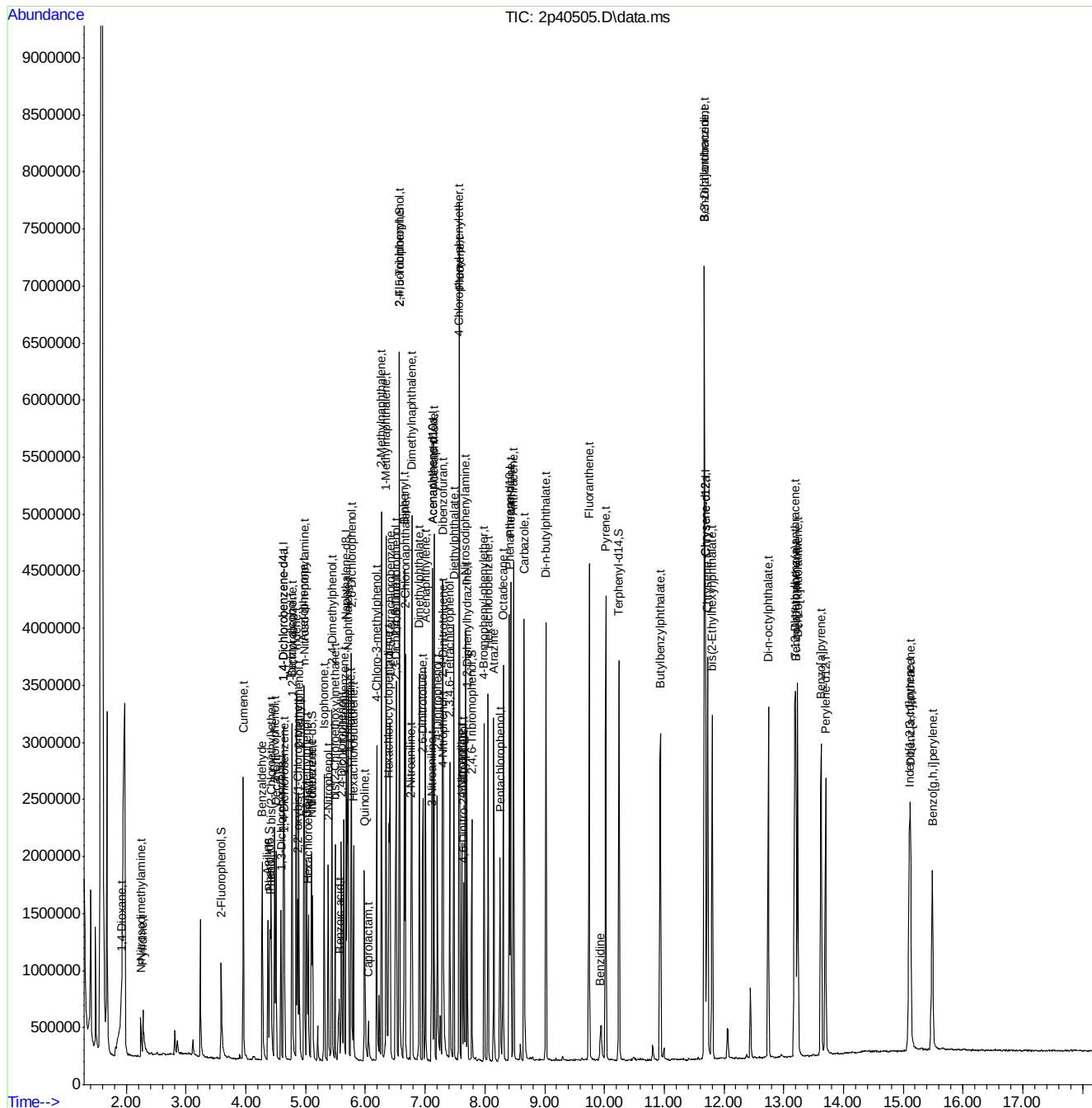
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
89)	3,3'-Dichlorobenzidine	11.674	252	948105	68.65	ppb	100
90)	Chrysene	11.727	228	1461810	43.15	ppb	100
91)	bis(2-Ethylhexyl)phtha...	11.802	149	1111661	47.73	ppb	99
93)	Di-n-octylphthalate	12.744	149	1964350	49.32	ppb	99
94)	Benzo[b]fluoranthene	13.204	252	1552666	43.51	ppb	98
95)	Benzo[k]fluoranthene	13.236	252	1391169	42.78	ppb	99
96)	Benzo[a]pyrene	13.626	252	1287542	41.80	ppb	99
97)	Indeno[1,2,3-cd]pyrene	15.102	276	1327864	37.16	ppb	95
99)	Dibenz[a,h]anthracene	15.124	278	1072900	37.86	ppb	98
100)	7,12-Dimethylbenz(a)an...	13.188	256	597553	40.91	ppb	98
101)	Benzo[g,h,i]perylene	15.488	276	1026111	36.56	ppb	96
103)	Benzaldehyde	4.271	105	320728	50.58	ppb	98
105)	Atrazine	8.149	215	144073	46.89	ppb #	80
106)	1,2,4,5-Tetrachloroben...	6.411	216	396846	34.36	ppb	100
108)	Benzidine	9.936	184	117277	7.08	ppb	100

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

Quantitation Report (QT Reviewed)

```
Data Path   : C:\msdchem\1\DATA\2P1697\
Data File  : 2p40505.D
Acq On     : 9 Sep 2014    9:17 am
Operator   : samtap
Sample     : op77878-bs1
Misc       : op77878,e2p1697,1000
ALS Vial   : 5    Sample Multiplier: 1
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Quant Time: Sep 09 10:43:10 2014
Quant Method : C:\MSDCHEM\1\METHODS\M2P1691.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Tue Sep 09 10:42:55 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P1697\
 Data File : 2p40508.D
 Acq On : 9 Sep 2014 10:25 am
 Operator : samtap
 Sample : op77866-bs1
 Misc : op77866,e2p1697,35.0
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 09 10:50:20 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M2P1691.M
 Quant Title : Semi Volatile Extractables by GC/MS
 QLast Update : Tue Sep 09 10:44:38 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.630	152	307841	40.00	ppb	0.00
24) Naphthalene-d8	5.678	136	1121884	40.00	ppb	0.00
47) Acenaphthene-d10	7.117	164	643839	40.00	ppb	0.00
69) Phenanthrene-d10	8.406	188	1080329	40.00	ppb	0.00
83) Chrysene-d12	11.690	240	1060257	40.00	ppb	-0.01
92) Perylene-d12	13.701	264	904462	40.00	ppb	-0.01
102) 1,4-Dichlorobenzene-d4a	4.630	152	307841	40.00	ppb	0.00
104) Acenaphthene-d10a	7.117	164	643839	40.00	ppb	0.00
107) Chrysene-d12a	11.690	240	1060257	40.00	ppb	-0.01

System Monitoring Compounds

5) 2-Fluorophenol	3.581	112	362506	43.82	ppb	0.00
Spiked Amount	50.000	Range	11 - 58	Recovery	=	87.64%#
8) Phenol-d5	4.389	99	433356	41.23	ppb	0.00
Spiked Amount	50.000	Range	10 - 59	Recovery	=	82.46%#
25) Nitrobenzene-d5	5.095	82	383660	42.38	ppb	0.00
Spiked Amount	50.000	Range	19 - 61	Recovery	=	84.76%#
51) 2-Fluorobiphenyl	6.566	172	879088	41.94	ppb	0.00
Spiked Amount	50.000	Range	21 - 58	Recovery	=	83.88%#
73) 2,4,6-Tribromophenol	7.780	330	143369	45.28	ppb	0.00
Spiked Amount	50.000	Range	12 - 68	Recovery	=	90.56%#
85) Terphenyl-d14	10.246	244	1037368	47.27	ppb	0.00
Spiked Amount	50.000	Range	16 - 65	Recovery	=	94.54%#

Target Compounds

						Qvalue
2) 1,4-Dioxane	1.918	88	76974	25.08	ppb	92
3) Pyridine	2.271	79	283171	35.36	ppb	93
4) N-Nitrosodimethylamine	2.239	74	180760	39.88	ppb	85
6) Indene	4.844	116	672767	42.91	ppb	97
7) Cumene	3.961	105	874491	37.42	ppb	99
9) Phenol	4.405	94	499428	42.18	ppb	99
10) Aniline	4.368	93	437919	32.93	ppb	79
11) bis(2-Chloroethyl)ether	4.421	93	334903	43.52	ppb	96
12) 2-Chlorophenol	4.475	128	473287	44.26	ppb	96
13) Decane	4.507	57	394455	36.52	ppb	96
14) 1,3-Dichlorobenzene	4.582	146	466804	38.56	ppb	96
15) 1,4-Dichlorobenzene	4.646	146	471975	38.20	ppb	97
16) Benzyl alcohol	4.769	108	264689	44.57	ppb	97
17) 1,2-Dichlorobenzene	4.769	146	466255	40.88	ppb	97
18) Acetophenone	4.972	105	508099	39.35	ppb	# 68
19) 2-Methylphenol	4.887	108	368338	45.69	ppb	96
20) 2,2'-oxybis(1-Chloropr...	4.865	121	106600	40.33	ppb	# 84
21) 3&4-Methylphenol	5.015	108	378069	44.52	ppb	99
22) n-Nitroso-di-n-propyla...	4.977	70	243252	43.23	ppb	91
23) Hexachloroethane	5.042	201	182756	39.63	ppb	92
26) Nitrobenzene	5.111	77	364476	40.45	ppb	92
27) Quinoline	5.978	129	783621	43.50	ppb	99
28) Isophorone	5.309	82	607295	40.92	ppb	98
29) 2-Nitrophenol	5.373	139	249523	42.97	ppb	79

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P1697\
 Data File : 2p40508.D
 Acq On : 9 Sep 2014 10:25 am
 Operator : samtap
 Sample : op77866-bs1
 Misc : op77866,e2p1697,35.0
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 09 10:50:20 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M2P1691.M
 Quant Title : Semi Volatile Extractables by GC/MS
 QLast Update : Tue Sep 09 10:44:38 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
30) 2,4-Dimethylphenol	5.432	107	441159	49.15	ppb	95
31) Benzoic acid	5.566	105	312346	53.06	ppb	98
32) bis(2-Chloroethoxy)met...	5.486	93	395273	43.23	ppb	99
33) 2,4-Dichlorophenol	5.593	162	390860	45.38	ppb	98
34) 2,6-Dichlorophenol	5.764	162	385072	44.83	ppb	97
36) 1,2,4-Trichlorobenzene	5.635	180	396836	39.91	ppb	98
38) Naphthalene	5.694	128	1144452	38.59	ppb	100
39) 4-Chloroaniline	5.758	127	355441	28.87	ppb	98
40) 2,3-Dichloroaniline	6.507	161	401313	37.37	ppb	96
41) Caprolactam	6.058	113	112226	45.20	ppb	85
42) Hexachlorobutadiene	5.801	225	224242	40.18	ppb	98
43) 4-Chloro-3-methylphenol	6.186	107	380651	47.53	ppb #	59
44) 2-Methylnaphthalene	6.266	141	751123	40.52	ppb	98
45) 1-Methylnaphthalene	6.347	141	706262	40.18	ppb	99
46) Dimethylnaphthalene	6.780	156	699177	40.37	ppb	98
48) Hexachlorocyclopentadiene	6.395	237	299045	72.59	ppb	97
49) 2,4,6-Trichlorophenol	6.518	196	275748	45.45	ppb	95
50) 2,4,5-Trichlorophenol	6.566	196	304787	46.93	ppb	100
52) 2-Chloronaphthalene	6.668	162	732708	39.29	ppb	99
53) Biphenyl	6.646	154	981985	40.10	ppb	99
54) 2-Nitroaniline	6.764	65	262152	42.25	ppb	90
55) Dimethylphthalate	6.903	163	920257	44.84	ppb	98
56) Acenaphthylene	7.005	152	1035836	32.16	ppb	100
57) 2,6-Dinitrotoluene	6.962	165	202882	41.47	ppb	97
58) 3-Nitroaniline	7.106	138	189284	32.33	ppb	98
59) Acenaphthene	7.144	153	850034	40.85	ppb	98
60) 2,4-Dinitrophenol	7.203	184	237072	82.64	ppb	96
61) 4-Nitrophenol	7.299	109	131122	53.16	ppb #	15
62) Dibenzofuran	7.288	168	1187754	42.38	ppb	98
63) 2,4-Dinitrotoluene	7.299	165	273601	42.37	ppb	64
64) 2,3,4,6-Tetrachlorophenol	7.411	232	234600	44.13	ppb	95
65) Diethylphthalate	7.481	149	926574	45.43	ppb	98
66) Fluorene	7.572	166	939942	42.33	ppb	99
67) 4-Chlorophenyl-phenyle...	7.566	204	448248	45.58	ppb	88
68) 4-Nitroaniline	7.614	138	238076	43.31	ppb	94
70) 4,6-Dinitro-2-methylph...	7.641	198	165460	46.53	ppb	94
71) n-Nitrosodiphenylamine	7.673	169	625472	43.61	ppb	99
72) 1,2-Diphenylhydrazine	7.700	77	798118	47.12	ppb	94
74) 4-Bromophenyl-phenylether	7.983	248	261947	44.55	ppb	94
75) Hexachlorobenzene	8.053	284	305659	43.03	ppb	93
76) Pentachlorophenol	8.251	266	160681	44.34	ppb	98
77) Phenanthrene	8.433	178	1344166	41.61	ppb	99
78) Anthracene	8.481	178	1362075	41.89	ppb	99
79) Carbazole	8.657	167	1369767	49.58	ppb	99
80) Di-n-butylphthalate	9.021	149	1720673	49.48	ppb	99
81) Fluoranthene	9.743	202	1565088	41.86	ppb	100
82) Octadecane	8.304	43	413238	48.75	ppb	93
84) Pyrene	10.021	202	1597898	42.29	ppb	98
86) Butylbenzylphthalate	10.936	149	730962	47.36	ppb	96
88) Benzo[a]anthracene	11.674	228	1378256	40.86	ppb	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P1697\
 Data File : 2p40508.D
 Acq On : 9 Sep 2014 10:25 am
 Operator : samtap
 Sample : op77866-bs1
 Misc : op77866,e2p1697,35.0
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 09 10:50:20 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M2P1691.M
 Quant Title : Semi Volatile Extractables by GC/MS
 QLast Update : Tue Sep 09 10:44:38 2014
 Response via : Initial Calibration

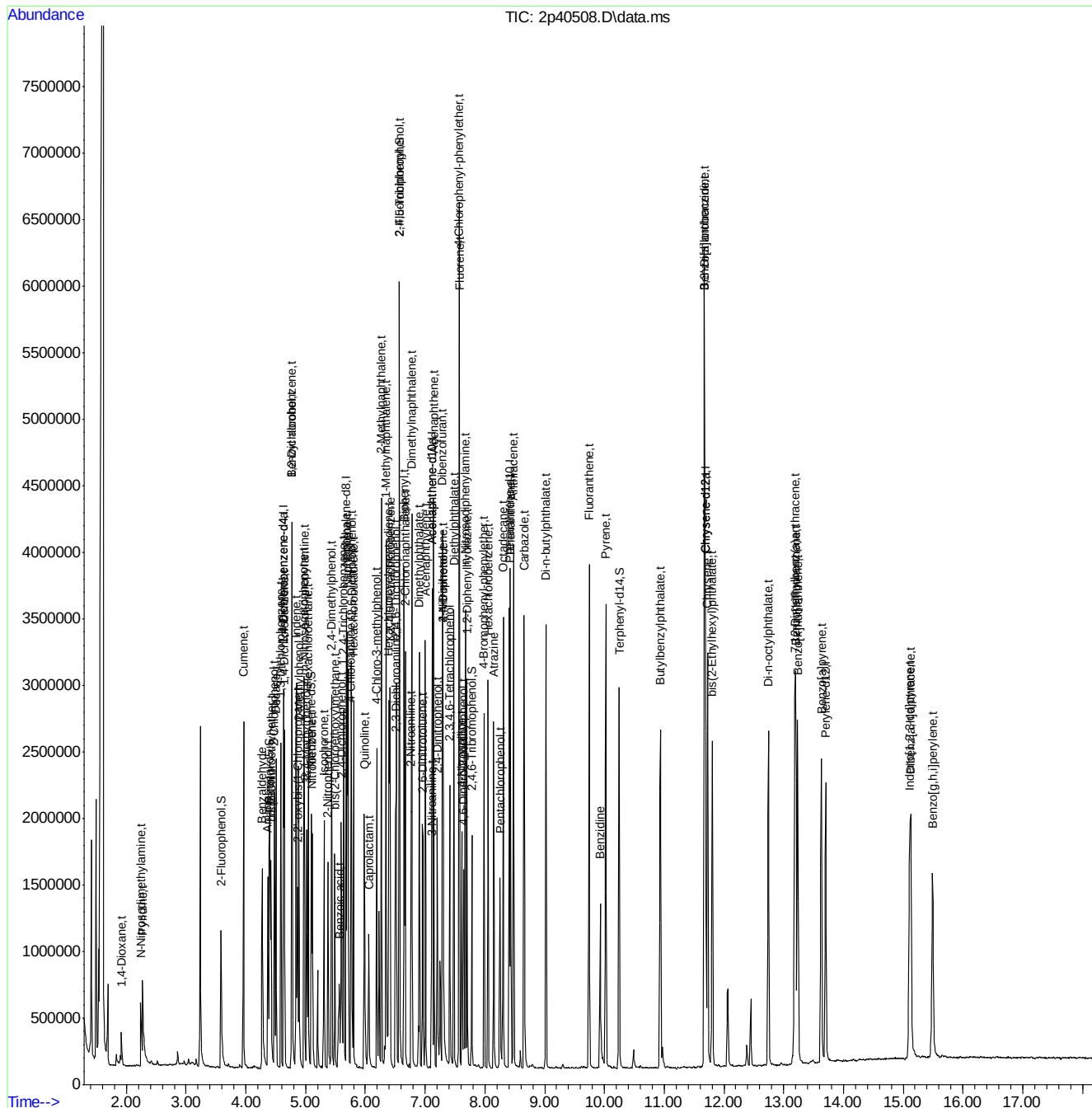
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
89)	3,3'-Dichlorobenzidine	11.674	252	837285	70.63	ppb	99
90)	Chrysene	11.727	228	1252933	43.09	ppb	100
91)	bis(2-Ethylhexyl)phtha...	11.802	149	951013	47.57	ppb	99
93)	Di-n-octylphthalate	12.744	149	1685274	48.63	ppb	98
94)	Benzo[b]fluoranthene	13.204	252	1300641	41.89	ppb	99
95)	Benzo[k]fluoranthene	13.236	252	1187728	41.98	ppb	99
96)	Benzo[a]pyrene	13.632	252	1121578	41.85	ppb	98
97)	Indeno[1,2,3-cd]pyrene	15.108	276	1176830	37.86	ppb	96
99)	Dibenz[a,h]anthracene	15.129	278	952715	38.64	ppb	99
100)	7,12-Dimethylbenz(a)an...	13.188	256	593089	46.66	ppb	98
101)	Benzo[g,h,i]perylene	15.493	276	930945	38.13	ppb	98
103)	Benzaldehyde	4.271	105	275648	50.55	ppb	98
105)	Atrazine	8.149	215	121296	46.02	ppb #	74
106)	1,2,4,5-Tetrachloroben...	6.411	216	403673	40.73	ppb	99
108)	Benzidine	9.930	184	603997	42.49	ppb	100

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P1697\
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Acq On : 9 Sep 2014 10:25 am
Operator : samtap
Sample : op77866-bs1
Misc : op77866,e2p1697,35.0
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 09 10:50:20 2014
Quant Method : C:\MSDCHEM\1\METHODS\M2P1691.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Tue Sep 09 10:44:38 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P1697\
 Data File : 2p40518.D
 Acq On : 9 Sep 2014 2:34 pm
 Operator : samtap
 Sample : op77866-ms
 Misc : op77866,e2p1697,31.6,,,5
 ALS Vial : 18 Sample Multiplier: 1

Quant Time: Sep 09 16:44:24 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M2P1691.M
 Quant Title : Semi Volatile Extractables by GC/MS
 QLast Update : Fri Sep 05 20:04:39 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.635	152	320798	40.00	ppb	-0.01
24) Naphthalene-d8	5.689	136	1161518	40.00	ppb	0.00
47) Acenaphthene-d10	7.138	164	759790	40.00	ppb	0.00
69) Phenanthrene-d10	8.433	188	1194556	40.00	ppb	0.00
83) Chrysene-d12	11.706	240	922167	40.00	ppb	-0.01
92) Perylene-d12	13.722	264	674633	40.00	ppb	0.00
102) 1,4-Dichlorobenzene-d4a	4.635	152	320798	40.00	ppb	-0.01
104) Acenaphthene-d10a	7.138	164	759790	40.00	ppb	0.00
107) Chrysene-d12a	11.706	240	922167	40.00	ppb	-0.01

System Monitoring Compounds

5) 2-Fluorophenol	3.587	112	63442	7.36	ppb	0.00
Spiked Amount 50.000	Range 11 - 58		Recovery =	14.72%		
8) Phenol-d5	4.400	99	83935	7.66	ppb	0.00
Spiked Amount 50.000	Range 10 - 59		Recovery =	15.32%		
25) Nitrobenzene-d5	5.100	82	92213	9.84	ppb	-0.02
Spiked Amount 50.000	Range 19 - 61		Recovery =	19.68%		
51) 2-Fluorobiphenyl	6.577	172	198363	8.02	ppb	-0.01
Spiked Amount 50.000	Range 21 - 58		Recovery =	16.04%#		
73) 2,4,6-Tribromophenol	7.801	330	36529	10.43	ppb	0.00
Spiked Amount 50.000	Range 12 - 68		Recovery =	20.86%		
85) Terphenyl-d14	10.262	244	165125	8.65	ppb	-0.02
Spiked Amount 50.000	Range 16 - 65		Recovery =	17.30%		

Target Compounds

						Qvalue
2) 1,4-Dioxane	1.913	88	13521	4.23	ppb	93
3) Pyridine	2.292	79	35483	4.25	ppb	82
4) N-Nitrosodimethylamine	2.255	74	24030	5.09	ppb #	61
6) Indene	4.849	116	129518	7.93	ppb	96
7) Cumene	3.961	105	154017	6.33	ppb	97
9) Phenol	4.410	94	93400	7.57	ppb	91
10) Aniline	4.373	93	87392	6.31	ppb	77
11) bis(2-Chloroethyl)ether	4.426	93	60618	7.56	ppb	95
12) 2-Chlorophenol	4.485	128	85048	7.63	ppb	97
13) Decane	4.507	57	106687	9.48	ppb	86
14) 1,3-Dichlorobenzene	4.587	146	85018	6.74	ppb	96
15) 1,4-Dichlorobenzene	4.651	146	89405m	6.94	ppb	
16) Benzyl alcohol	4.774	108	46162	7.46	ppb	94
17) 1,2-Dichlorobenzene	4.779	146	79702	6.71	ppb	96
18) Acetophenone	4.977	105	99855m	7.42	ppb	
19) 2-Methylphenol	4.892	108	67618	8.05	ppb	100
20) 2,2'-oxybis(1-Chloropr...	4.870	121	20784	7.54	ppb #	77
21) 3&4-Methylphenol	5.026	108	73023	8.25	ppb	97
22) n-Nitroso-di-n-propyla...	4.977	70	77395	13.20	ppb	92
23) Hexachloroethane	5.047	201	18816	3.91	ppb #	35
26) Nitrobenzene	5.116	77	60587	6.49	ppb	87
27) Quinoline	5.983	129	182701	9.80	ppb	98
29) 2-Nitrophenol	5.384	139	62682	10.43	ppb #	14
30) 2,4-Dimethylphenol	5.443	107	82711	8.90	ppb	98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P1697\
 Data File : 2p40518.D
 Acq On : 9 Sep 2014 2:34 pm
 Operator : samtap
 Sample : op77866-ms
 Misc : op77866,e2p1697,31.6,,,5
 ALS Vial : 18 Sample Multiplier: 1

Quant Time: Sep 09 16:44:24 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M2P1691.M
 Quant Title : Semi Volatile Extractables by GC/MS
 QLast Update : Fri Sep 05 20:04:39 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
32) bis(2-Chloroethoxy)met...	5.491	93	99639	10.53	ppb	80
33) 2,4-Dichlorophenol	5.609	162	95306	10.69	ppb	90
34) 2,6-Dichlorophenol	5.774	162	135507	15.24	ppb	75
36) 1,2,4-Trichlorobenzene	5.646	180	76904	7.47	ppb	86
38) Naphthalene	5.705	128	352386	11.48	ppb	97
39) 4-Chloroaniline	5.764	127	101072	7.93	ppb	95
40) 2,3-Dichloroaniline	6.518	161	165037	14.84	ppb #	63
41) Caprolactam	6.063	113	282118m	109.75	ppb	
42) Hexachlorobutadiene	5.806	225	43193	7.47	ppb	97
43) 4-Chloro-3-methylphenol	6.197	107	139792	16.86	ppb	89
44) 2-Methylnaphthalene	6.277	141	220995	11.52	ppb	96
45) 1-Methylnaphthalene	6.357	141	391656	21.52	ppb	99
46) Dimethylnaphthalene	6.801	156	2607249	145.39	ppb	99
49) 2,4,6-Trichlorophenol	6.529	196	63057	8.81	ppb	96
50) 2,4,5-Trichlorophenol	6.582	196	56128	7.32	ppb	99
52) 2-Chloronaphthalene	6.678	162	173159	7.87	ppb	97
53) Biphenyl	6.662	154	225984	7.82	ppb	98
54) 2-Nitroaniline	6.775	65	80910	11.05	ppb	86
55) Dimethylphthalate	6.914	163	251679	10.39	ppb	95
56) Acenaphthylene	7.026	152	376478	9.91	ppb	66
57) 2,6-Dinitrotoluene	6.972	165	64785	11.22	ppb	93
58) 3-Nitroaniline	7.117	138	97398	14.10	ppb	69
59) Acenaphthene	7.165	153	415210	16.91	ppb	97
62) Dibenzofuran	7.309	168	444956m	13.45	ppb	
64) 2,3,4,6-Tetrachlorophenol	7.432	232	50285	8.01	ppb #	75
65) Diethylphthalate	7.491	149	211966	8.81	ppb	95
66) Fluorene	7.593	166	541180	20.65	ppb	95
67) 4-Chlorophenyl-phenyle...	7.588	204	105210	9.06	ppb #	55
68) 4-Nitroaniline	7.625	138	48156	7.42	ppb	92
72) 1,2-Diphenylhydrazine	7.721	77	207430m	11.08	ppb	
74) 4-Bromophenyl-phenylether	8.005	248	62464	9.61	ppb #	61
75) Hexachlorobenzene	8.090	284	71707	9.13	ppb	88
76) Pentachlorophenol	8.278	266	24976	6.23	ppb	97
77) Phenanthrene	8.454	178	1126083	31.52	ppb	100
78) Anthracene	8.502	178	447251	12.44	ppb	99
79) Carbazole	8.679	167	274544	8.99	ppb	91
80) Di-n-butylphthalate	9.042	149	330662	8.60	ppb	96
81) Fluoranthene	9.764	202	467057	11.30	ppb	98
82) Octadecane	8.358	43	1201849m	128.22	ppb	
84) Pyrene	10.043	202	562923	17.13	ppb	98
86) Butylbenzylphthalate	10.946	149	121106	9.02	ppb	88
88) Benzo[a]anthracene	11.695	228	296486	10.11	ppb	96
89) 3,3'-Dichlorobenzidine	11.685	252	103863	10.07	ppb	98
90) Chrysene	11.743	228	256031	10.12	ppb	98
91) bis(2-Ethylhexyl)phtha...	11.818	149	172827	9.94	ppb	95
93) Di-n-octylphthalate	12.754	149	255135	9.87	ppb	88
94) Benzo[b]fluoranthene	13.214	252	229003m	9.89	ppb	
95) Benzo[k]fluoranthene	13.246	252	179519	8.51	ppb	98
96) Benzo[a]pyrene	13.642	252	190405	9.53	ppb	96
97) Indeno[1,2,3-cd]pyrene	15.124	276	162293	7.00	ppb	91

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P1697\
Data File : 2p40518.D
Acq On : 9 Sep 2014 2:34 pm
Operator : samtap
Sample : op77866-ms
Misc : op77866,e2p1697,31.6,,,5
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Sep 09 16:44:24 2014
Quant Method : C:\MSDCHEM\1\METHODS\M2P1691.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri Sep 05 20:04:39 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
99) Dibenz[a,h]anthracene	15.145	278	103948	5.65	ppb	93
100) 7,12-Dimethylbenz(a)an...	13.193	256	70392	7.43	ppb	94
101) Benzo[g,h,i]perylene	15.514	276	147591	8.10	ppb	91
103) Benzaldehyde	4.277	105	53257	9.37	ppb	94
105) Atrazine	8.165	215	32176	10.34	ppb	84
106) 1,2,4,5-Tetrachloroben...	6.422	216	92367	7.90	ppb	97
108) Benzidine	9.946	184	109779	8.88	ppb	99

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

Manual Integration Approval Summary

Page 1 of 1

Sample Number: OP77866-MS
Lab FileID: 2P40518.D
Injection Time: 09/09/14 14:34

Method: SW846 8270D
Analyst approved: 09/09/14 16:52 Ashley Dye
Supervisor approved: 09/10/14 09:39 Nina Pandya

Parameter	CAS	Sig#	R.T. (min.)	Reason
1,4-Dichlorobenzene	106-46-7		4.65	Poor instrument integration
Acetophenone	98-86-2		4.98	Poor instrument integration
Caprolactam	105-60-2		6.06	Poor instrument integration
Dibenzofuran	132-64-9		7.31	Poor instrument integration
1,2-Diphenylhydrazine	122-66-7		7.72	Poor instrument integration
Octadecane	593-45-3		8.36	Poor instrument integration
Benzo(b)fluoranthene	205-99-2		13.21	Overlapping peak

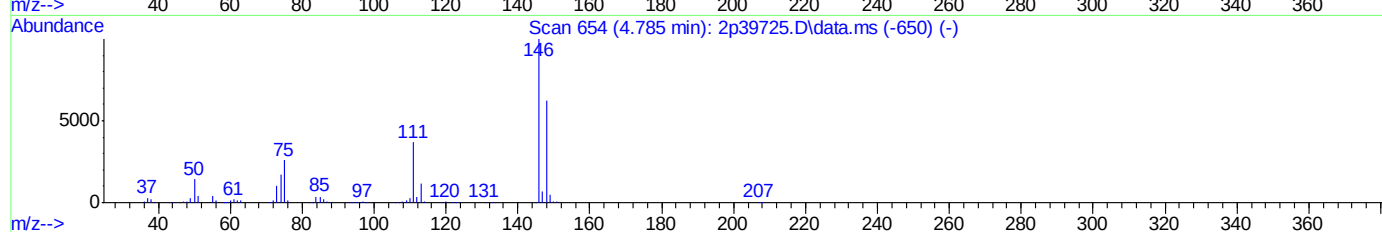
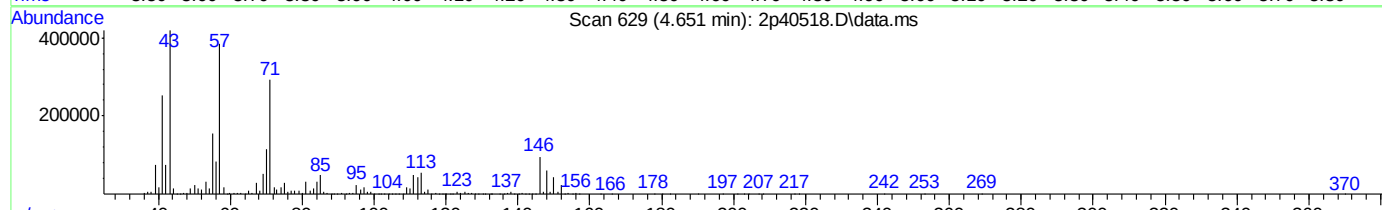
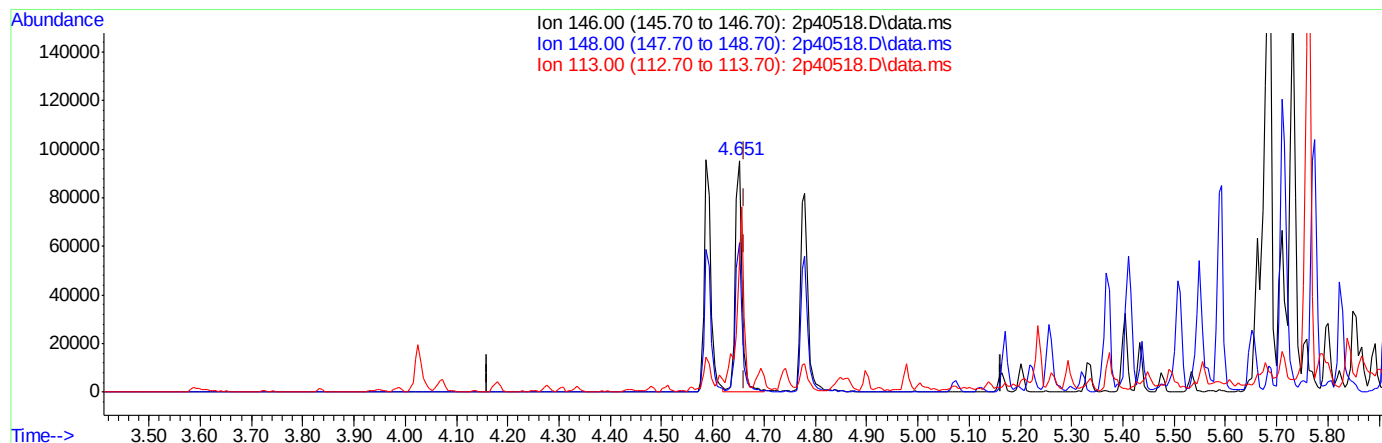
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9

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2P1697\
Data File : 2p40518.D
Acq On : 9 Sep 2014 2:34 pm
Operator : samtap
Sample : op77866-ms
Misc : op77866,e2p1697,31.6,,,5
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Sep 09 16:34:20 2014
Quant Method : C:\MSDCHEM\1\METHODS\M2P1691.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri Sep 05 20:04:39 2014
Response via : Initial Calibration



TIC: 2p40518.D\data.ms

(15) 1,4-Dichlorobenzene (t)

4.651min (-0.011) 6.94ppb m

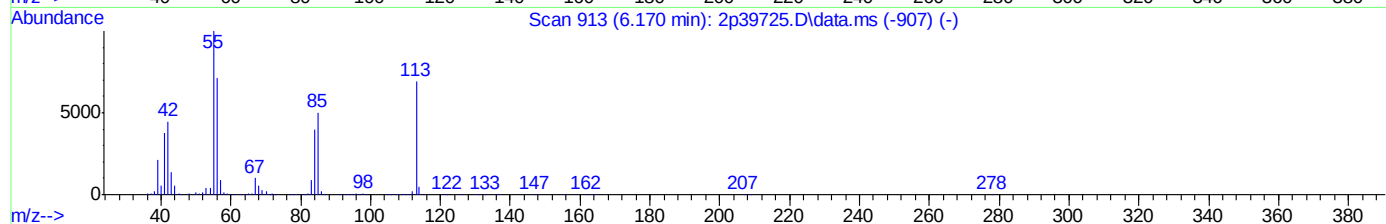
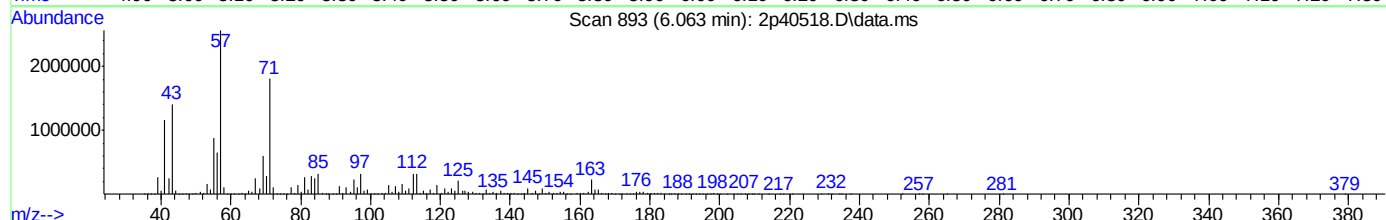
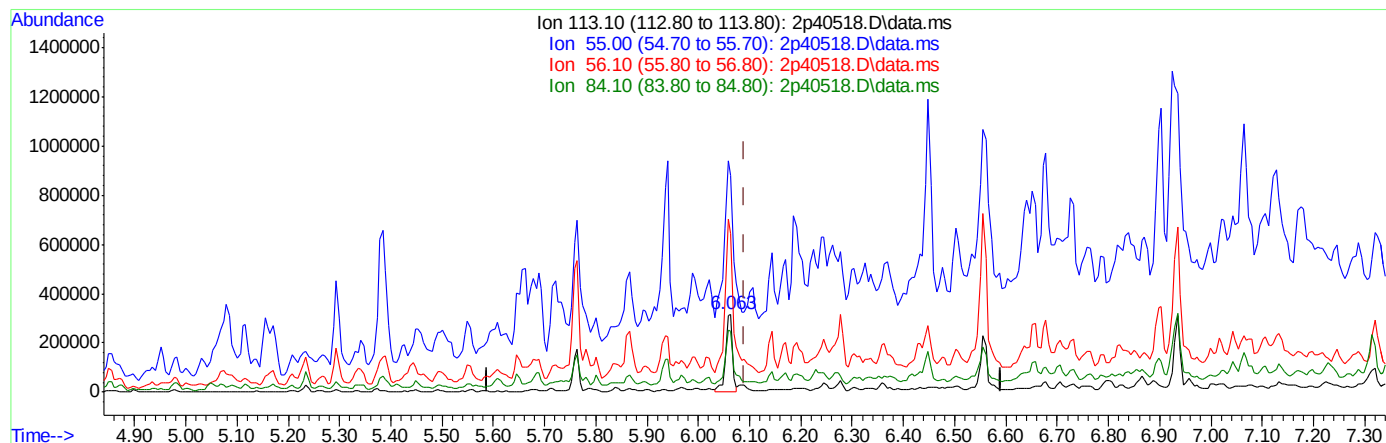
response 89405

Ion	Exp%	Act%
146.00	100	100
148.00	63.00	64.43
113.00	11.20	56.86#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2P1697\
Data File : 2p40518.D
Acq On : 9 Sep 2014 2:34 pm
Operator : samtap
Sample : op77866-ms
Misc : op77866,e2p1697,31.6,,,5
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Sep 09 16:34:20 2014
Quant Method : C:\MSDCHEM\1\METHODS\M2P1691.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri Sep 05 20:04:39 2014
Response via : Initial Calibration



TIC: 2p40518.D\data.ms

(41) Caprolactam (t)

6.063min (-0.027) 109.75ppb m

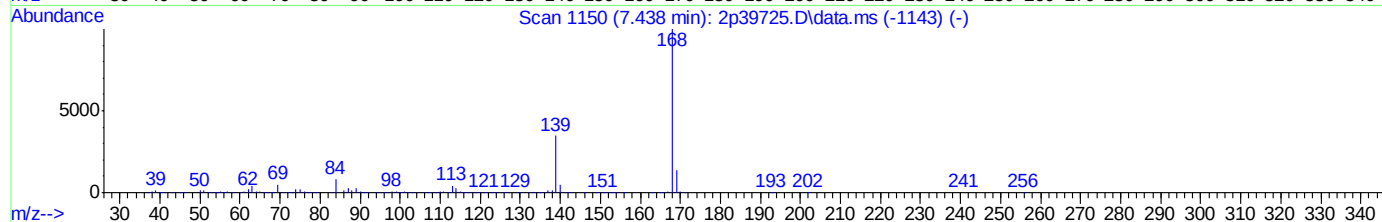
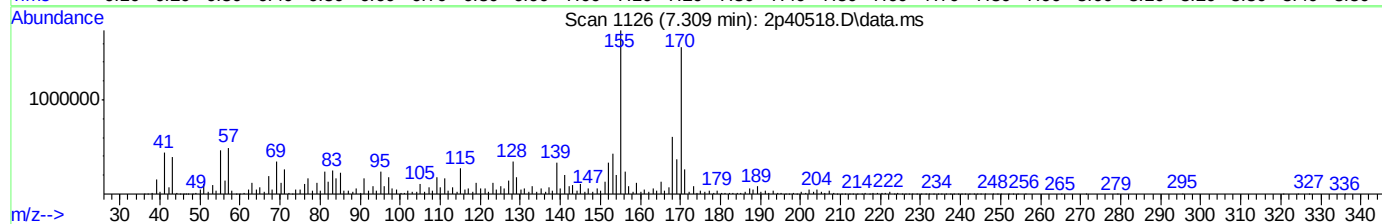
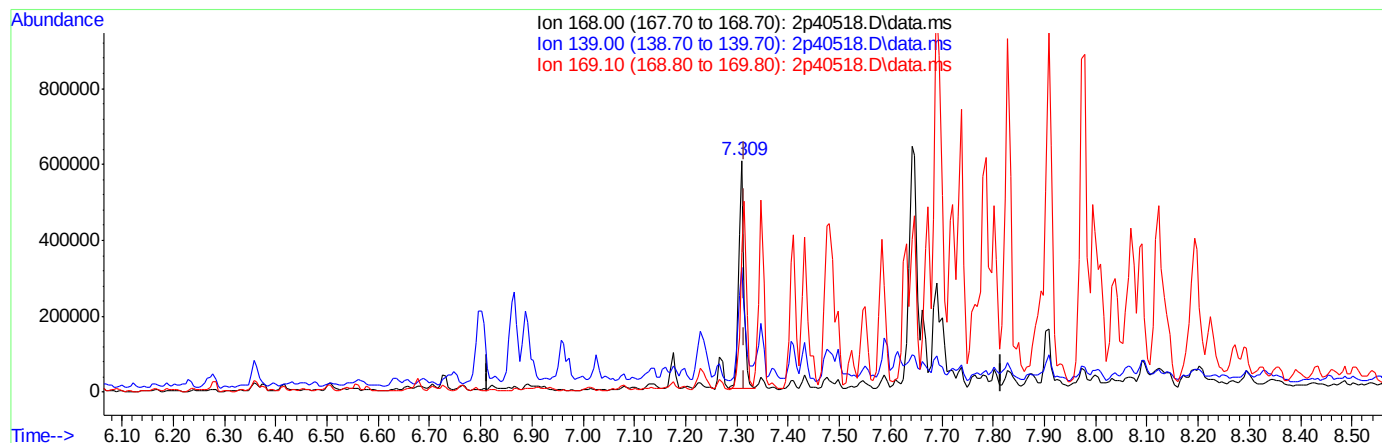
response 282118

Ion	Exp%	Act%
113.10	100	100
55.00	152.20	279.26#
56.10	119.60	203.42#
84.10	59.80	79.02

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2P1697\
Data File : 2p40518.D
Acq On : 9 Sep 2014 2:34 pm
Operator : samtap
Sample : op77866-ms
Misc : op77866,e2p1697,31.6,,,5
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Sep 09 16:34:20 2014
Quant Method : C:\MSDCHEM\1\METHODS\M2P1691.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri Sep 05 20:04:39 2014
Response via : Initial Calibration



TIC: 2p40518.D\data.ms

(62) Dibenzofuran (t)

7.309min (-0.005) 13.45ppb m

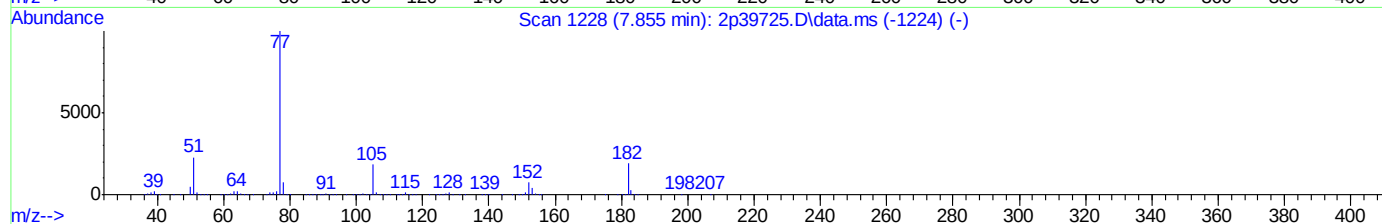
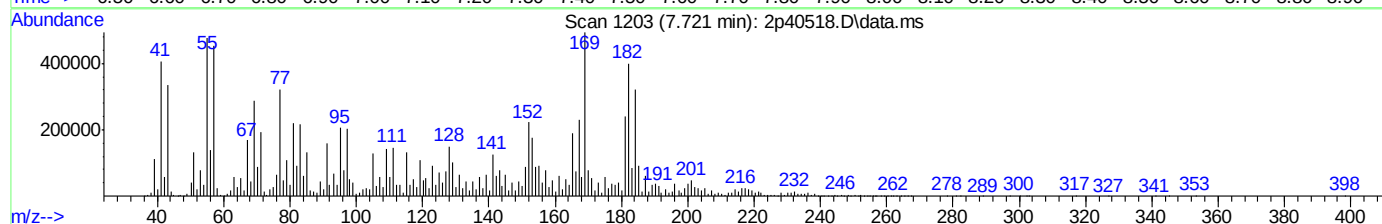
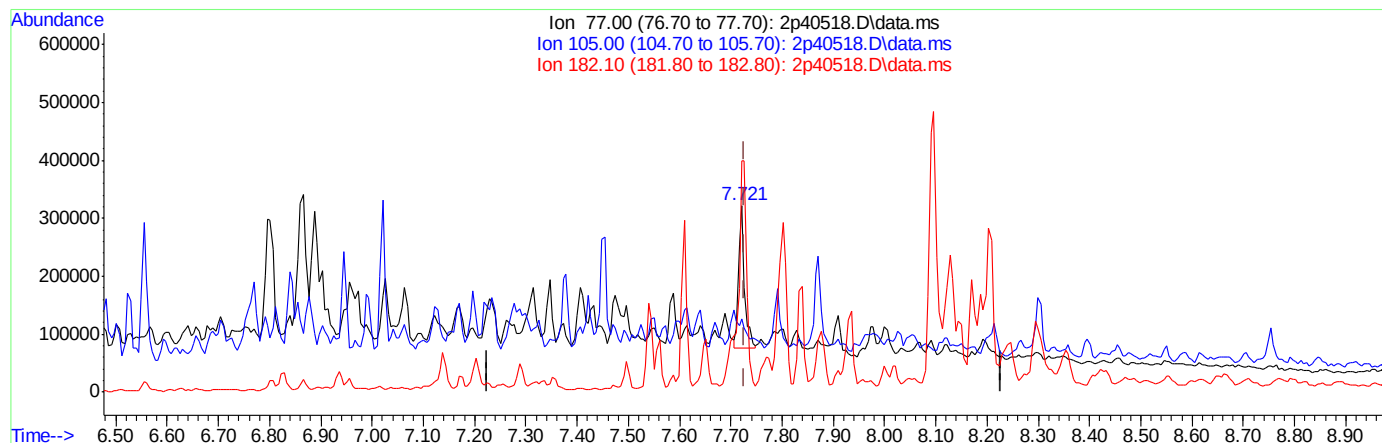
response 444956

Ion	Exp%	Act%
168.00	100	100
139.00	40.90	53.90
169.10	13.10	60.03#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2P1697\
Data File : 2p40518.D
Acq On : 9 Sep 2014 2:34 pm
Operator : samtap
Sample : op77866-ms
Misc : op77866,e2p1697,31.6,,,5
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Sep 09 16:34:20 2014
Quant Method : C:\MSDCHEM\1\METHODS\M2P1691.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri Sep 05 20:04:39 2014
Response via : Initial Calibration



TIC: 2p40518.D\data.ms

(72) 1,2-Diphenylhydrazine (t)

7.721min (-0.005) 11.08ppb m

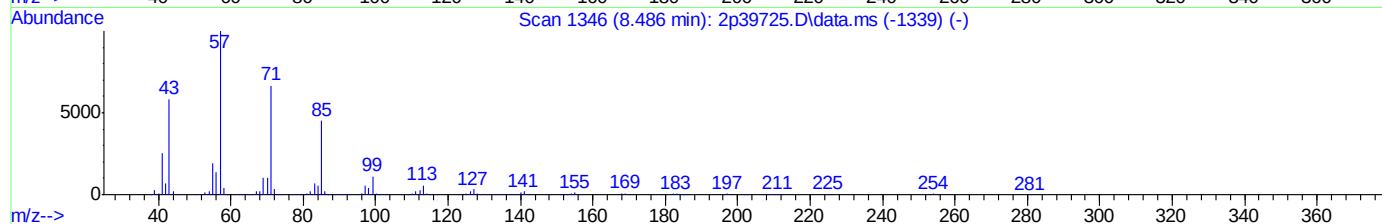
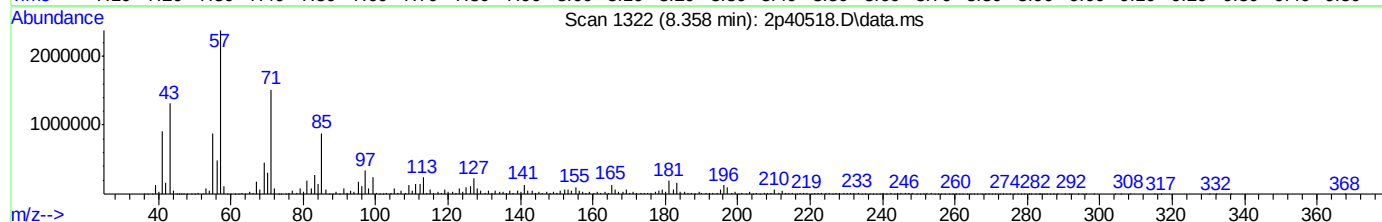
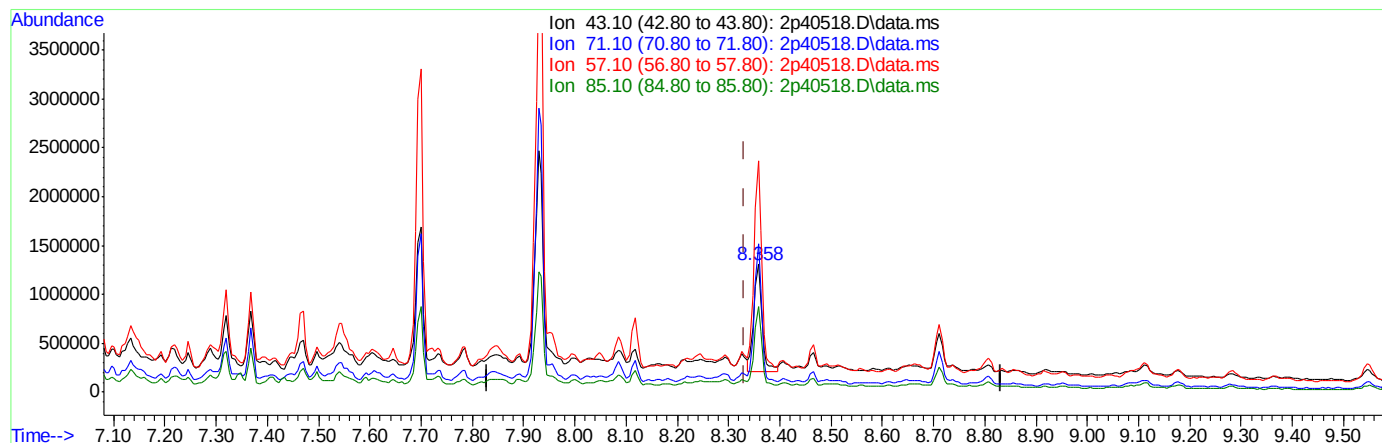
response 207430

Ion	Exp%	Act%
77.00	100	100
105.00	16.40	39.40
182.10	27.10	123.88#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2P1697\
Data File : 2p40518.D
Acq On : 9 Sep 2014 2:34 pm
Operator : samtap
Sample : op77866-ms
Misc : op77866,e2p1697,31.6,,,5
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Sep 09 16:34:20 2014
Quant Method : C:\MSDCHEM\1\METHODS\M2P1691.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri Sep 05 20:04:39 2014
Response via : Initial Calibration



TIC: 2p40518.D\data.ms

(82) Octadecane (t)

8.358min (+0.027) 128.22ppb m

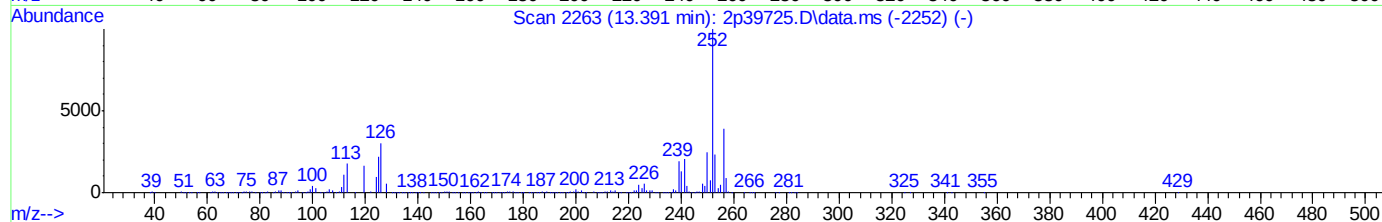
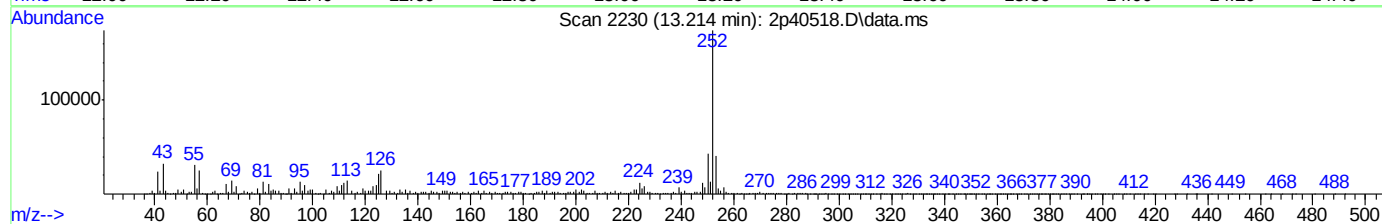
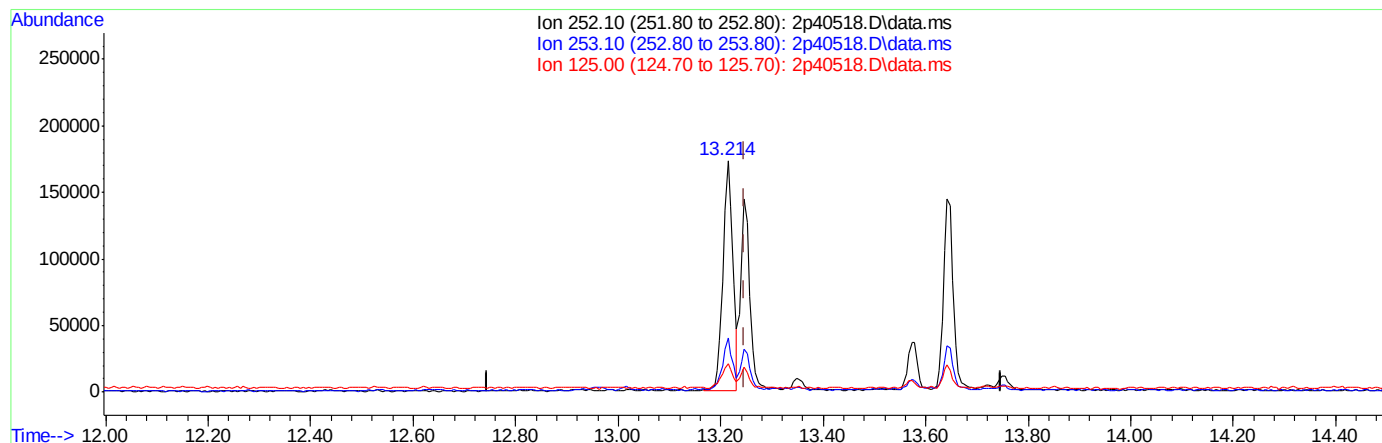
response 1201849

Ion	Exp%	Act%
43.10	100	100
71.10	81.40	115.96#
57.10	155.90	181.18
85.10	56.30	67.30

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2P1697\
Data File : 2p40518.D
Acq On : 9 Sep 2014 2:34 pm
Operator : samtap
Sample : op77866-ms
Misc : op77866,e2p1697,31.6,,,5
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Sep 09 16:34:20 2014
Quant Method : C:\MSDCHEM\1\METHODS\M2P1691.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri Sep 05 20:04:39 2014
Response via : Initial Calibration



TIC: 2p40518.D\data.ms

(94) Benzo[b]fluoranthene (t)

13.214min (-0.032) 9.89ppb m

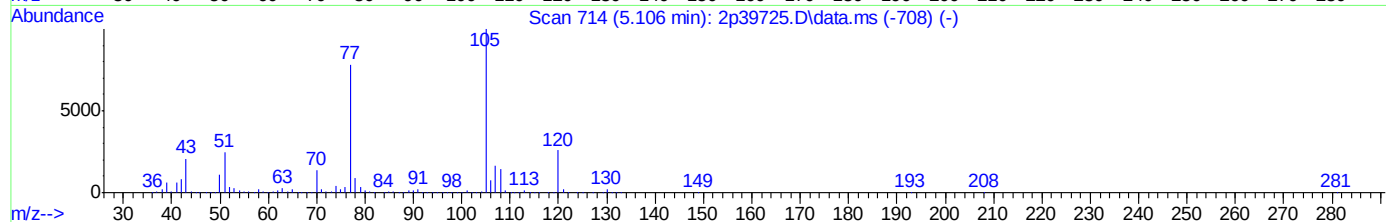
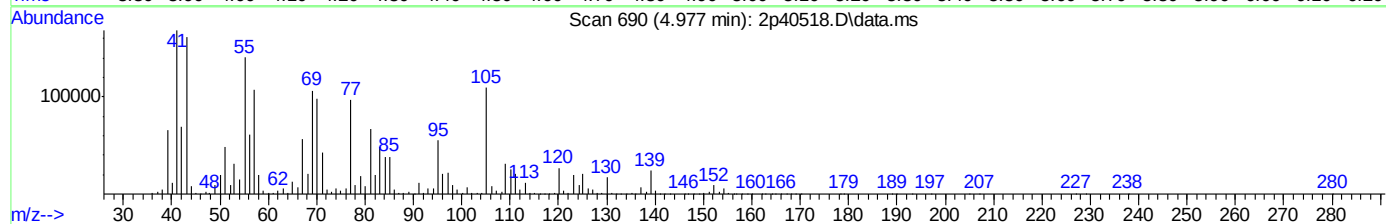
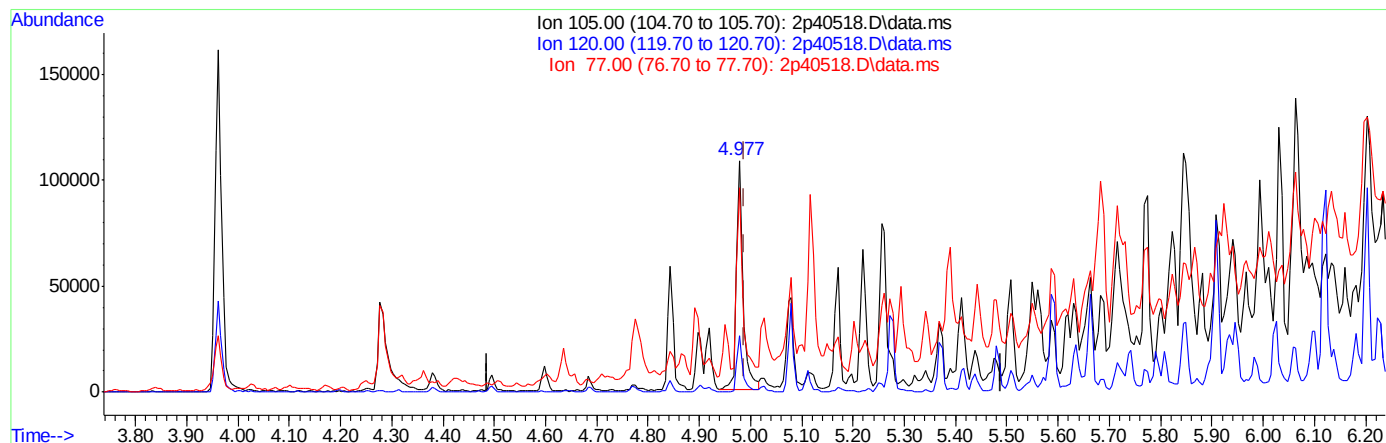
response 229003

Ion	Exp%	Act%
252.10	100	100
253.10	21.90	23.35
125.00	13.80	12.26
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2P1697\
Data File : 2p40518.D
Acq On : 9 Sep 2014 2:34 pm
Operator : samtap
Sample : op77866-ms
Misc : op77866,e2p1697,31.6,,,5
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Sep 09 16:34:20 2014
Quant Method : C:\MSDCHEM\1\METHODS\M2P1691.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri Sep 05 20:04:39 2014
Response via : Initial Calibration



TIC: 2p40518.D\data.ms

(18) Acetophenone (t)

4.977min (-0.011) 7.42ppb m

response 99855

Ion	Exp%	Act%
105.00	100	100
120.00	24.20	24.34
77.00	42.40	88.07#
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P1697\
 Data File : 2p40519.D
 Acq On : 9 Sep 2014 2:57 pm
 Operator : samtap
 Sample : op77866-msd
 Misc : op77866,e2p1697,32.0,,,5
 ALS Vial : 19 Sample Multiplier: 1

Quant Time: Sep 09 16:43:56 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M2P1691.M
 Quant Title : Semi Volatile Extractables by GC/MS
 QLast Update : Tue Sep 09 16:39:50 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.635	152	321647	40.00	ppb	0.00
24) Naphthalene-d8	5.694	136	1211083	40.00	ppb	0.00
47) Acenaphthene-d10	7.154	164	772539	40.00	ppb	0.02
69) Phenanthrene-d10	8.443	188	1342187	40.00	ppb	0.01
83) Chrysene-d12	11.717	240	958877	40.00	ppb	0.01
92) Perylene-d12	13.733	264	721965	40.00	ppb	0.01
102) 1,4-Dichlorobenzene-d4a	4.635	152	321647	40.00	ppb	0.00
104) Acenaphthene-d10a	7.154	164	772539	40.00	ppb	0.02
107) Chrysene-d12a	11.717	240	958877	40.00	ppb	0.01

System Monitoring Compounds

5) 2-Fluorophenol	3.587	112	77931	9.02	ppb	0.00
Spiked Amount 50.000	Range 11 - 58		Recovery =	18.04%		
8) Phenol-d5	4.405	99	109262	9.95	ppb	0.00
Spiked Amount 50.000	Range 10 - 59		Recovery =	19.90%		
25) Nitrobenzene-d5	5.106	82	125567	12.85	ppb	0.00
Spiked Amount 50.000	Range 19 - 61		Recovery =	25.70%		
51) 2-Fluorobiphenyl	6.587	172	267052	10.62	ppb	0.01
Spiked Amount 50.000	Range 21 - 58		Recovery =	21.24%		
73) 2,4,6-Tribromophenol	7.817	330	57317	14.57	ppb	0.02
Spiked Amount 50.000	Range 12 - 68		Recovery =	29.14%		
85) Terphenyl-d14	10.272	244	229534	11.56	ppb	0.01
Spiked Amount 50.000	Range 16 - 65		Recovery =	23.12%		

Target Compounds

						Qvalue
2) 1,4-Dioxane	1.907	88	14518	4.53	ppb	88
3) Pyridine	2.292	79	43057	5.15	ppb	# 60
4) N-Nitrosodimethylamine	2.255	74	29883	6.31	ppb	# 54
6) Indene	4.849	116	164554	10.05	ppb	94
7) Cumene	3.961	105	182113	7.46	ppb	97
9) Phenol	4.421	94	118228	9.56	ppb	75
10) Aniline	4.373	93	99501	7.16	ppb	89
11) bis(2-Chloroethyl)ether	4.426	93	82060	10.21	ppb	86
12) 2-Chlorophenol	4.485	128	111795	10.01	ppb	97
13) Decane	4.512	57	141314	12.52	ppb	86
14) 1,3-Dichlorobenzene	4.592	146	106832	8.45	ppb	95
15) 1,4-Dichlorobenzene	4.651	146	111649m	8.65	ppb	
16) Benzyl alcohol	4.774	108	62827	10.12	ppb	95
17) 1,2-Dichlorobenzene	4.779	146	102240	8.58	ppb	95
18) Acetophenone	4.977	105	135518m	10.04	ppb	
19) 2-Methylphenol	4.897	108	89864	10.67	ppb	94
20) 2,2'-oxybis(1-Chloropr...	4.870	121	30454	11.03	ppb	# 82
21) 3&4-Methylphenol	5.025	108	101602	11.45	ppb	98
22) n-Nitroso-di-n-propyla...	4.983	70	122748	20.88	ppb	92
23) Hexachloroethane	5.052	201	24818	5.15	ppb	# 35
26) Nitrobenzene	5.116	77	96372	9.91	ppb	79
27) Quinoline	5.994	129	246597	12.68	ppb	97
29) 2-Nitrophenol	5.389	139	106887	17.05	ppb	# 1
30) 2,4-Dimethylphenol	5.448	107	112480	11.61	ppb	95

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P1697\
 Data File : 2p40519.D
 Acq On : 9 Sep 2014 2:57 pm
 Operator : samtap
 Sample : op77866-msd
 Misc : op77866,e2p1697,32.0,,,5
 ALS Vial : 19 Sample Multiplier: 1

Quant Time: Sep 09 16:43:56 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M2P1691.M
 Quant Title : Semi Volatile Extractables by GC/MS
 QLast Update : Tue Sep 09 16:39:50 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
32) bis(2-Chloroethoxy)met...	5.496	93	121215	12.28	ppb	91
33) 2,4-Dichlorophenol	5.614	162	112729	12.12	ppb	95
34) 2,6-Dichlorophenol	5.780	162	240259	25.91	ppb	72
36) 1,2,4-Trichlorobenzene	5.651	180	106519	9.92	ppb	87
38) Naphthalene	5.710	128	376681	11.77	ppb	98
39) 4-Chloroaniline	5.769	127	138681	10.44	ppb	97
40) 2,3-Dichloroaniline	6.523	161	332919	28.72	ppb	# 56
41) Caprolactam	6.074	113	533413	199.02	ppb	# 79
42) Hexachlorobutadiene	5.817	225	60831	10.10	ppb	98
43) 4-Chloro-3-methylphenol	6.202	107	233091	26.96	ppb	94
44) 2-Methylnaphthalene	6.288	141	351339	17.56	ppb	96
45) 1-Methylnaphthalene	6.368	141	800007	42.16	ppb	99
46) Dimethylnaphthalene	6.817	156	5529340	295.71	ppb	96
49) 2,4,6-Trichlorophenol	6.539	196	142762	19.61	ppb	99
50) 2,4,5-Trichlorophenol	6.587	196	134763	17.29	ppb	97
52) 2-Chloronaphthalene	6.689	162	249902	11.17	ppb	100
53) Biphenyl	6.673	154	342146	11.64	ppb	97
54) 2-Nitroaniline	6.785	65	128732	17.29	ppb	# 68
55) Dimethylphthalate	6.924	163	295896m	12.02	ppb	
56) Acenaphthylene	7.037	152	581318	15.04	ppb	75
57) 2,6-Dinitrotoluene	6.988	165	189249	32.24	ppb	95
58) 3-Nitroaniline	7.127	138	153422	21.84	ppb	79
59) Acenaphthene	7.181	153	752881	30.16	ppb	98
62) Dibenzofuran	7.320	168	741161	22.04	ppb	87
64) 2,3,4,6-Tetrachlorophenol	7.448	232	72126	11.31	ppb	# 78
65) Diethylphthalate	7.507	149	279061	11.40	ppb	92
66) Fluorene	7.603	166	1043472	39.17	ppb	90
67) 4-Chlorophenyl-phenyle...	7.598	204	160027	13.56	ppb	# 55
68) 4-Nitroaniline	7.636	138	80340	12.18	ppb	95
72) 1,2-Diphenylhydrazine	7.732	77	291404m	13.85	ppb	
74) 4-Bromophenyl-phenylether	8.021	248	92202	12.62	ppb	85
75) Hexachlorobenzene	8.112	284	107630	12.20	ppb	# 57
76) Pentachlorophenol	8.293	266	39426	8.76	ppb	93
77) Phenanthrene	8.470	178	2484150	61.89	ppb	99
78) Anthracene	8.518	178	828468	20.51	ppb	98
79) Carbazole	8.689	167	393537	11.46	ppb	97
80) Di-n-butylphthalate	9.053	149	471298	10.91	ppb	99
81) Fluoranthene	9.780	202	772761	16.64	ppb	99
82) Octadecane	8.374	43	1675252m	159.06	ppb	
84) Pyrene	10.058	202	923630	27.03	ppb	98
86) Butylbenzylphthalate	10.957	149	161913	11.60	ppb	87
88) Benzo[a]anthracene	11.706	228	427057	14.00	ppb	97
89) 3,3'-Dichlorobenzidine	11.695	252	133392	12.44	ppb	98
90) Chrysene	11.754	228	377993	14.37	ppb	97
91) bis(2-Ethylhexyl)phtha...	11.824	149	226405	12.52	ppb	96
93) Di-n-octylphthalate	12.765	149	335430	12.13	ppb	92
94) Benzo[b]fluoranthene	13.225	252	336479	13.57	ppb	96
95) Benzo[k]fluoranthene	13.257	252	262220	11.61	ppb	98
96) Benzo[a]pyrene	13.653	252	292322	13.67	ppb	95
97) Indeno[1,2,3-cd]pyrene	15.140	276	234790	9.46	ppb	93

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P1697\
Data File : 2p40519.D
Acq On : 9 Sep 2014 2:57 pm
Operator : samtap
Sample : op77866-msd
Misc : op77866,e2p1697,32.0,,,5
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Sep 09 16:43:56 2014
Quant Method : C:\MSDCHEM\1\METHODS\M2P1691.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Tue Sep 09 16:39:50 2014
Response via : Initial Calibration

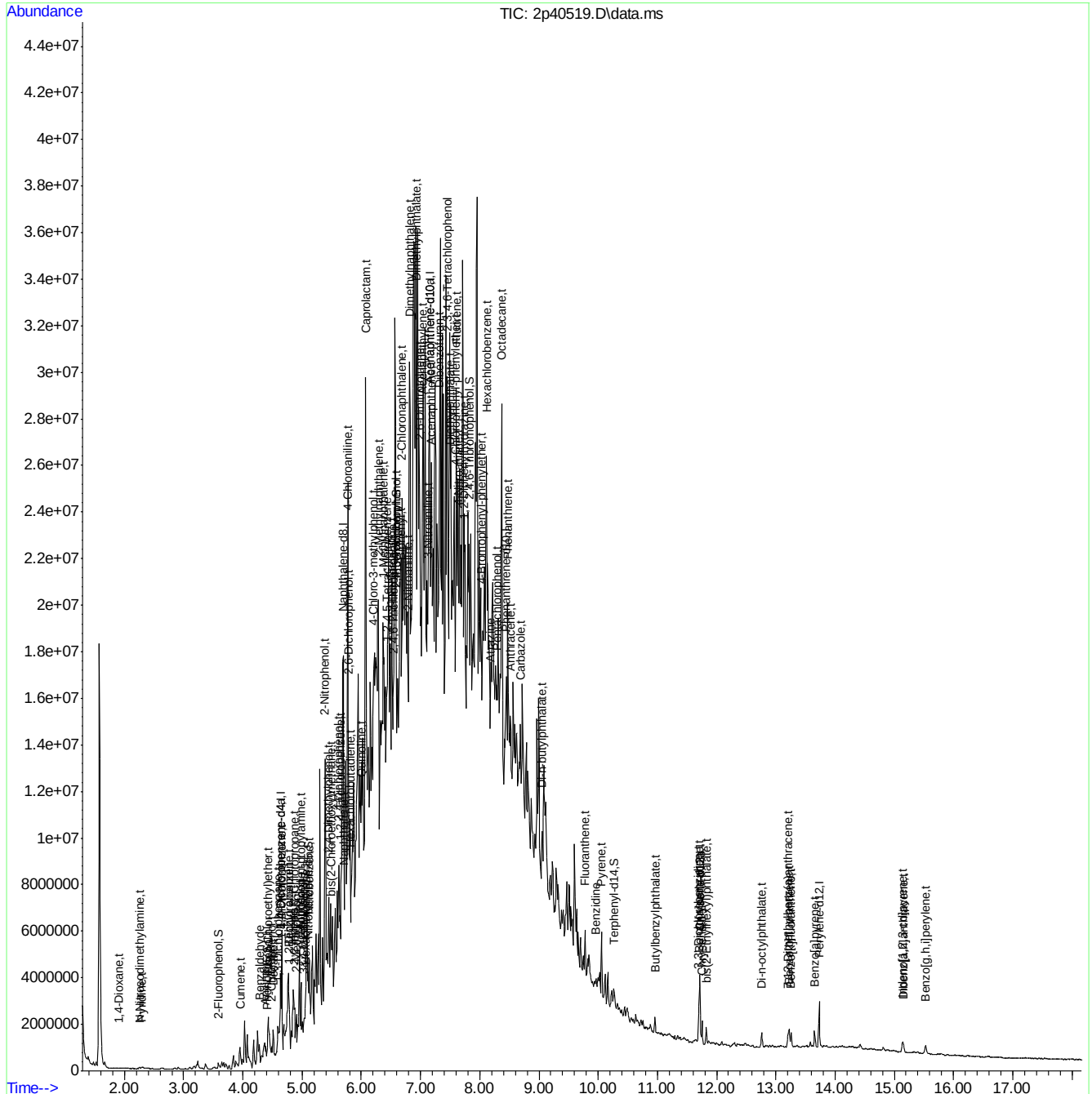
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
99) Dibenz[a,h]anthracene	15.156	278	154280	7.84	ppb	96
100) 7,12-Dimethylbenz(a)an...	13.209	256	100312	9.89	ppb	91
101) Benzo[g,h,i]perylene	15.530	276	217829	11.18	ppb	93
103) Benzaldehyde	4.277	105	80966	14.21	ppb	92
105) Atrazine	8.181	215	58400	18.46	ppb #	83
106) 1,2,4,5-Tetrachloroben...	6.437	216	129306	10.87	ppb	98
108) Benzidine	9.957	184	109648	8.53	ppb	99

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P1697\
Data File : 2p40519.D
Acq On : 9 Sep 2014 2:57 pm
Operator : samtap
Sample : op77866-msd
Misc : op77866,e2p1697,32.0,,,5
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Sep 09 16:43:56 2014
Quant Method : C:\MSDCHEM\1\METHODS\M2P1691.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Tue Sep 09 16:39:50 2014
Response via : Initial Calibration



Manual Integration Approval Summary

Sample Number: OP77866-MSD

Method: SW846 8270D

Lab FileID: 2P40519.D

Analyst approved: 09/09/14 16:52 Ashley Dye

Injection Time: 09/09/14 14:57

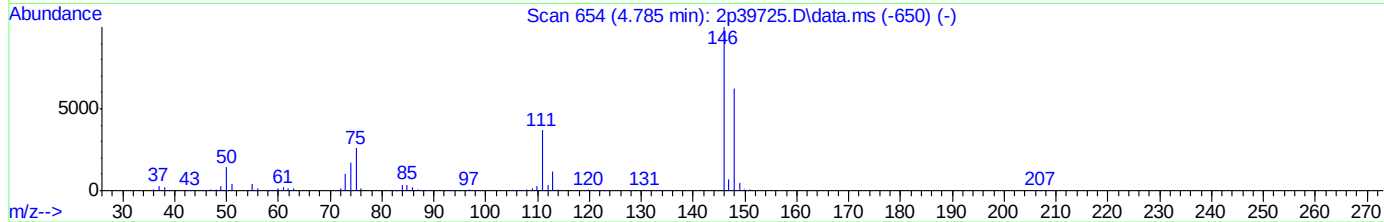
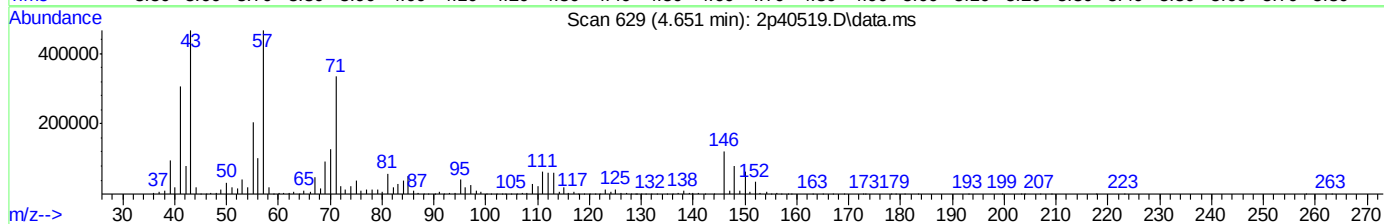
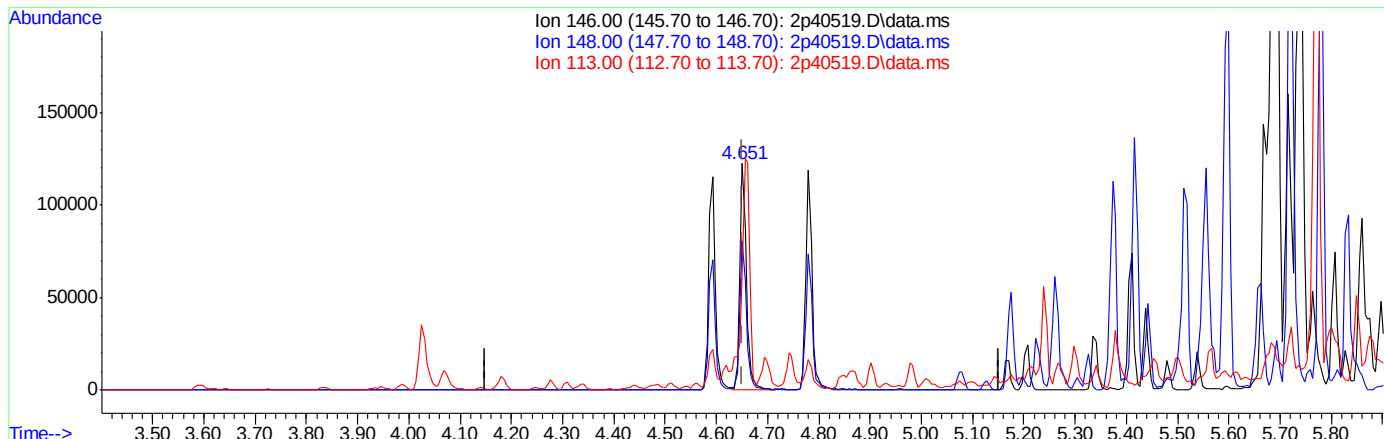
Supervisor approved: 09/10/14 09:39 Nina Pandya

Parameter	CAS	Sig#	R.T. (min.)	Reason
1,4-Dichlorobenzene	106-46-7		4.65	Poor instrument integration
Acetophenone	98-86-2		4.98	Poor instrument integration
Dimethyl phthalate	131-11-3		6.92	Poor instrument integration
1,2-Diphenylhydrazine	122-66-7		7.73	Poor instrument integration
Octadecane	593-45-3		8.37	Poor instrument integration

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2P1697\
Data File : 2p40519.D
Acq On : 9 Sep 2014 2:57 pm
Operator : samtap
Sample : op77866-msd
Misc : op77866,e2p1697,32.0,,,5
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Sep 09 16:40:04 2014
Quant Method : C:\MSDCHEM\1\METHODS\M2P1691.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Tue Sep 09 16:39:50 2014
Response via : Initial Calibration



TIC: 2p40519.D\data.ms

(15) 1,4-Dichlorobenzene (t)

4.651min (-0.000) 8.65ppb m

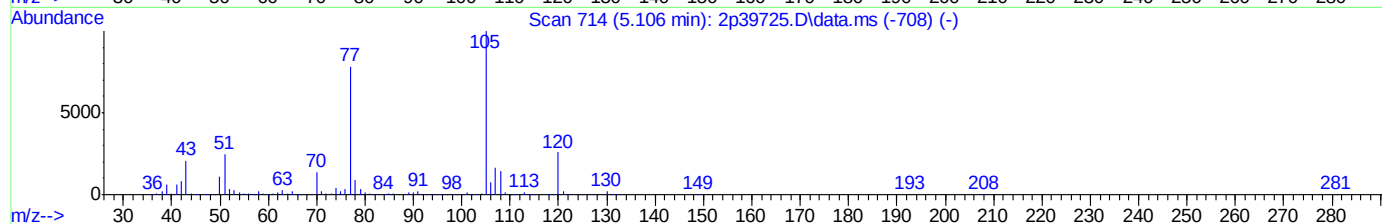
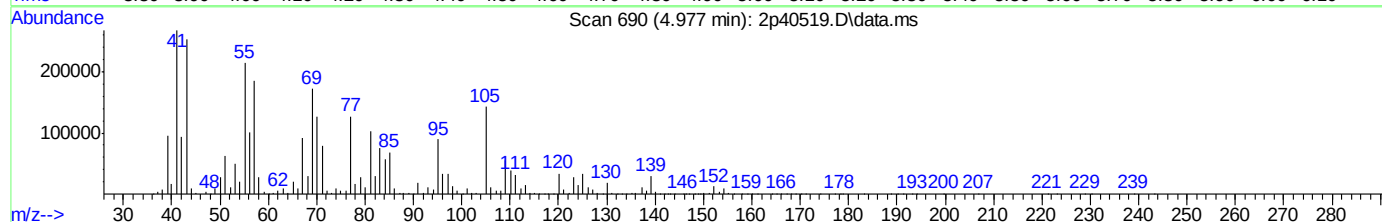
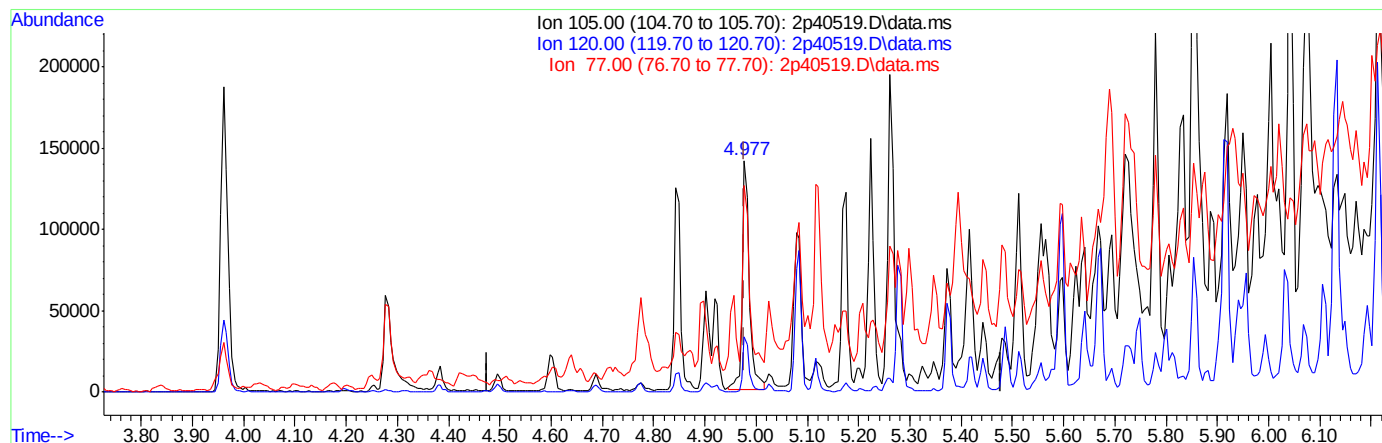
response 111649

Ion	Exp%	Act%
146.00	100	100
148.00	63.00	66.19
113.00	11.20	50.16#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2P1697\
Data File : 2p40519.D
Acq On : 9 Sep 2014 2:57 pm
Operator : samtap
Sample : op77866-msd
Misc : op77866,e2p1697,32.0,,,5
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Sep 09 16:40:04 2014
Quant Method : C:\MSDCHEM\1\METHODS\M2P1691.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Tue Sep 09 16:39:50 2014
Response via : Initial Calibration



TIC: 2p40519.D\data.ms

(18) Acetophenone (t)

4.977min (-0.000) 10.04ppb m

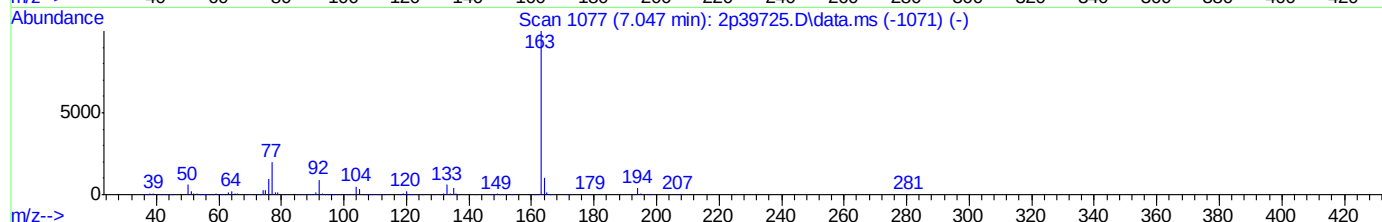
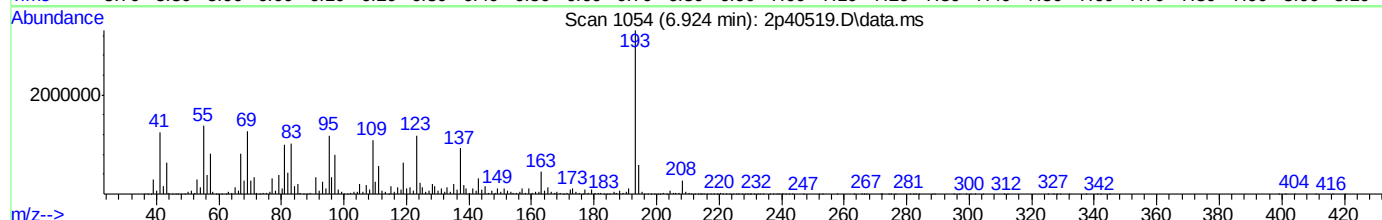
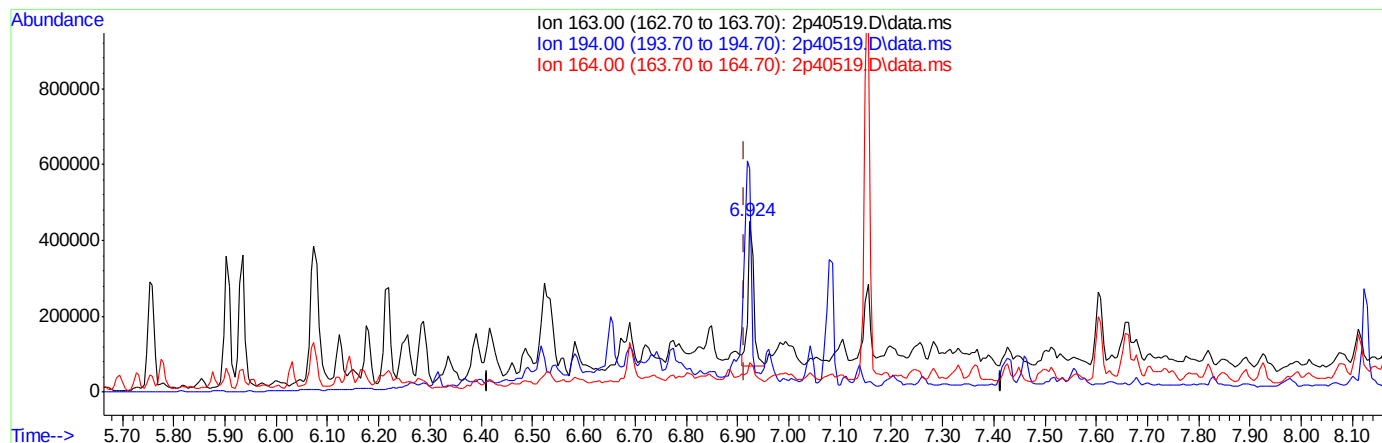
response 135518

Ion	Exp%	Act%
105.00	100	100
120.00	24.20	23.67
77.00	42.40	89.20#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2P1697\
Data File : 2p40519.D
Acq On : 9 Sep 2014 2:57 pm
Operator : samtap
Sample : op77866-msd
Misc : op77866,e2p1697,32.0,,,5
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Sep 09 16:40:04 2014
Quant Method : C:\MSDCHEM\1\METHODS\M2P1691.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Tue Sep 09 16:39:50 2014
Response via : Initial Calibration



TIC: 2p40519.D\data.ms

(55) Dimethylphthalate (t)

6.924min (+0.011) 12.02ppb m

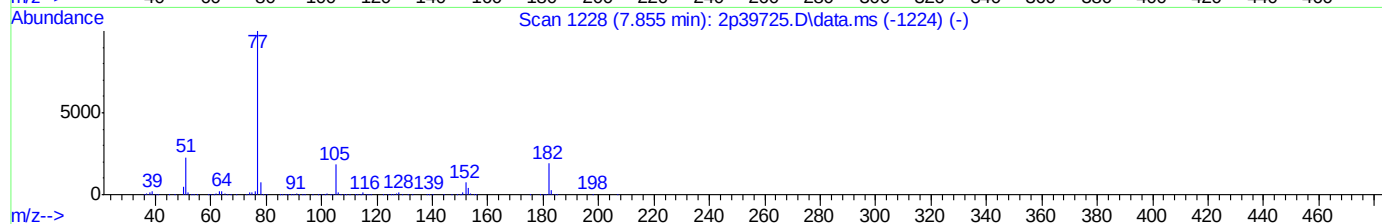
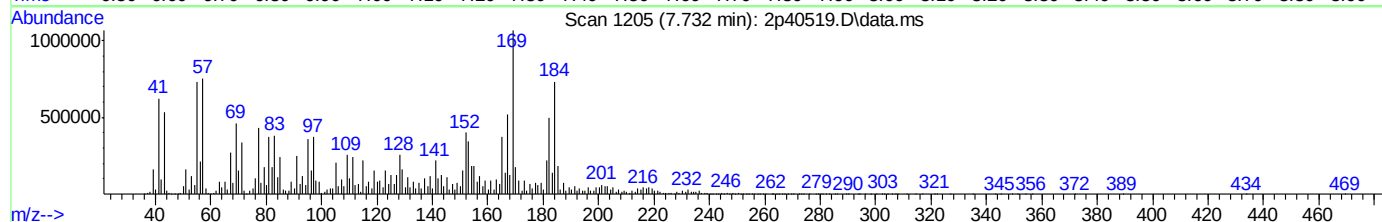
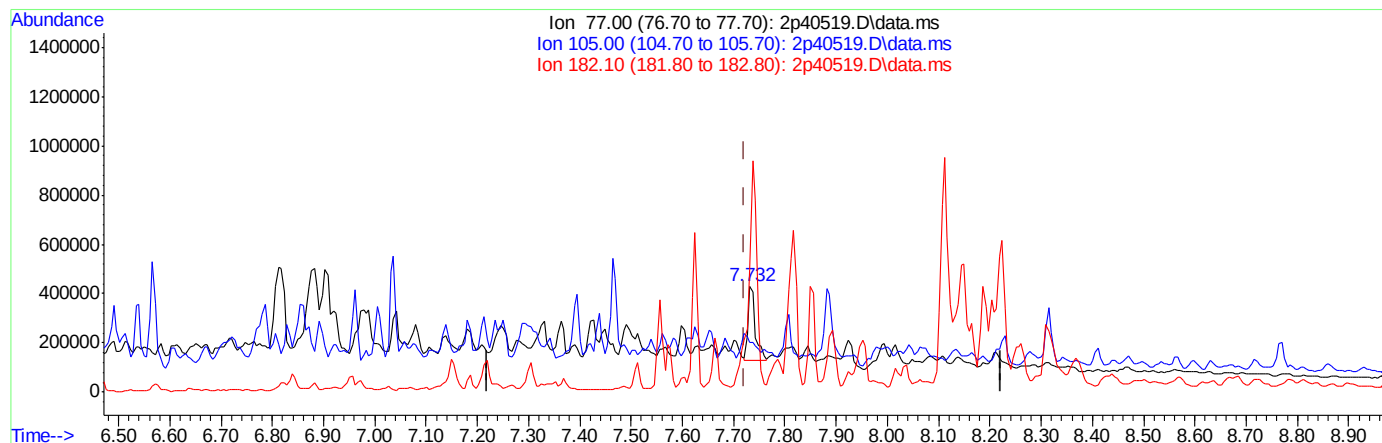
response 295896

Ion	Exp%	Act%
163.00	100	100
194.00	4.60	130.73#
164.00	9.50	17.32
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2P1697\
Data File : 2p40519.D
Acq On : 9 Sep 2014 2:57 pm
Operator : samtap
Sample : op77866-msd
Misc : op77866,e2p1697,32.0,,,5
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Sep 09 16:40:04 2014
Quant Method : C:\MSDCHEM\1\METHODS\M2P1691.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Tue Sep 09 16:39:50 2014
Response via : Initial Calibration



TIC: 2p40519.D\data.ms

(72) 1,2-Diphenylhydrazine (t)

7.732min (+0.011) 13.85ppb m

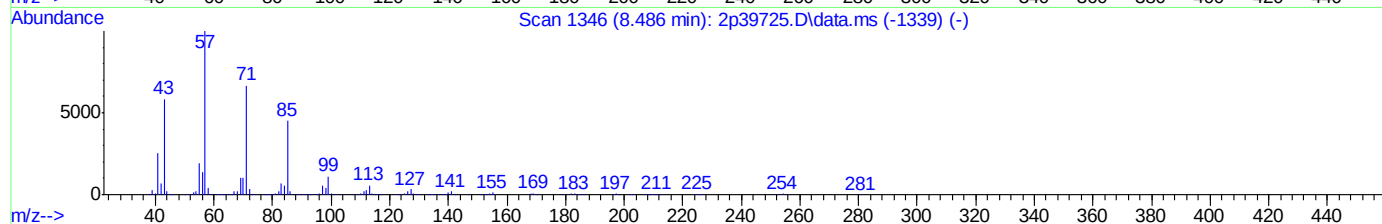
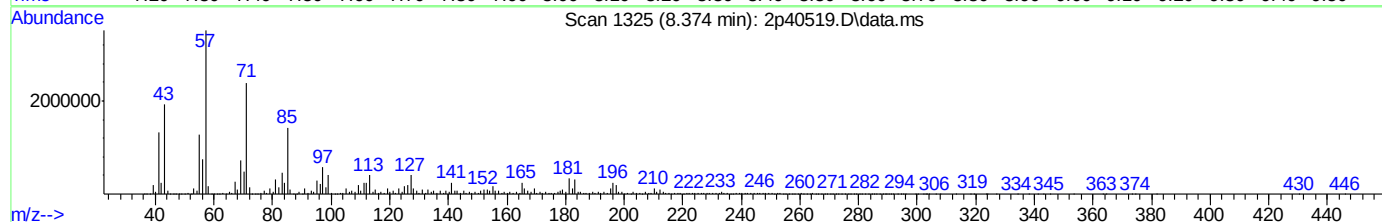
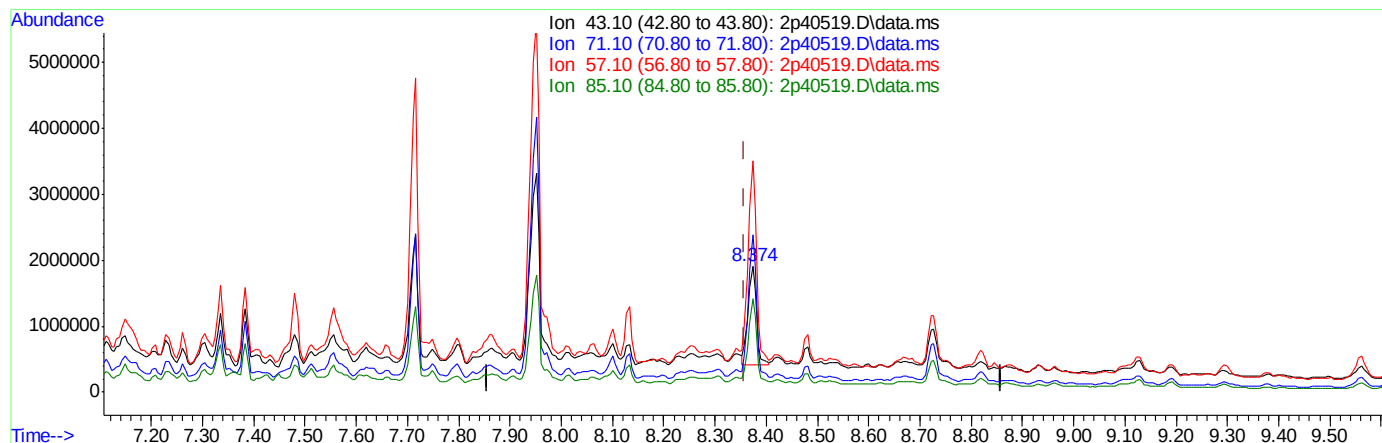
response 291404

Ion	Exp%	Act%
77.00	100	100
105.00	16.40	46.60#
182.10	27.10	115.58#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2P1697\
Data File : 2p40519.D
Acq On : 9 Sep 2014 2:57 pm
Operator : samtap
Sample : op77866-msd
Misc : op77866,e2p1697,32.0,,,5
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Sep 09 16:40:04 2014
Quant Method : C:\MSDCHEM\1\METHODS\M2P1691.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Tue Sep 09 16:39:50 2014
Response via : Initial Calibration



TIC: 2p40519.D\data.ms

(82) Octadecane (t)

8.374min (+0.016) 159.06ppb m

response 1675252

Ion	Exp%	Act%
43.10	100	100
71.10	81.40	124.65#
57.10	155.90	183.37
85.10	56.30	73.96

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P1697\
 Data File : 2p40520.D
 Acq On : 9 Sep 2014 3:19 pm
 Operator : samtap
 Sample : op77878-ms
 Misc : op77878,e2p1697,500
 ALS Vial : 20 Sample Multiplier: 1

Quant Time: Sep 09 16:47:55 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M2P1691.M
 Quant Title : Semi Volatile Extractables by GC/MS
 QLast Update : Fri Sep 05 20:04:39 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.635	152	360800	40.00	ppb	-0.01
24) Naphthalene-d8	5.689	136	1276017	40.00	ppb	0.00
47) Acenaphthene-d10	7.128	164	721561	40.00	ppb	-0.01
69) Phenanthrene-d10	8.422	188	1169779	40.00	ppb	0.00
83) Chrysene-d12	11.717	240	938846	40.00	ppb	0.00
92) Perylene-d12	13.728	264	628448	40.00	ppb	0.00
102) 1,4-Dichlorobenzene-d4a	4.635	152	360800	40.00	ppb	-0.01
104) Acenaphthene-d10a	7.128	164	721561	40.00	ppb	-0.01
107) Chrysene-d12a	11.717	240	938846	40.00	ppb	0.00

System Monitoring Compounds

5) 2-Fluorophenol	3.592	112	342758	35.35	ppb	0.01
Spiked Amount 50.000	Range 11 - 58		Recovery =	70.70%#		
8) Phenol-d5	4.416	99	334874	27.18	ppb	0.02
Spiked Amount 50.000	Range 10 - 59		Recovery =	54.36%		
25) Nitrobenzene-d5	5.101	82	449984	43.70	ppb	-0.02
Spiked Amount 50.000	Range 19 - 61		Recovery =	87.40%#		
51) 2-Fluorobiphenyl	6.577	172	1059447	45.10	ppb	-0.01
Spiked Amount 50.000	Range 21 - 58		Recovery =	90.20%#		
73) 2,4,6-Tribromophenol	7.796	330	168683	49.21	ppb	-0.01
Spiked Amount 50.000	Range 12 - 68		Recovery =	98.42%#		
85) Terphenyl-d14	10.262	244	920129	47.35	ppb	-0.02
Spiked Amount 50.000	Range 16 - 65		Recovery =	94.70%#		

Target Compounds

						Qvalue
2) 1,4-Dioxane	1.913	88	66766	18.56	ppb	87
3) Pyridine	2.298	79	175632	18.71	ppb	83
4) N-Nitrosodimethylamine	2.255	74	123689	23.29	ppb #	58
6) Indene	4.849	116	689452	37.52	ppb	99
7) Cumene	3.961	105	816033	29.80	ppb	98
9) Phenol	4.427	94	369688	26.64	ppb #	69
10) Aniline	4.373	93	272368	17.47	ppb	89
11) bis(2-Chloroethyl)ether	4.421	93	364890	40.46	ppb	89
12) 2-Chlorophenol	4.485	128	488204	38.95	ppb	97
13) Decane	4.507	57	321774	25.42	ppb	92
14) 1,3-Dichlorobenzene	4.587	146	284287	20.04	ppb	98
15) 1,4-Dichlorobenzene	4.651	146	294070	20.31	ppb	97
16) Benzyl alcohol	4.780	108	265376	38.12	ppb	95
17) 1,2-Dichlorobenzene	4.780	146	310461	23.23	ppb	99
18) Acetophenone	4.978	105	557944	36.87	ppb #	66
19) 2-Methylphenol	4.897	108	377154	39.92	ppb	96
20) 2,2'-oxybis(1-Chloropr...	4.871	121	110123	35.54	ppb #	73
21) 3&4-Methylphenol	5.031	108	389514	39.14	ppb	100
22) n-Nitroso-di-n-propyla...	4.983	70	267670	40.59	ppb	93
23) Hexachloroethane	5.047	201	75302	13.93	ppb	91
26) Nitrobenzene	5.117	77	384140	37.48	ppb	90
27) Quinoline	5.988	129	783379	38.23	ppb	99
28) Isophorone	5.314	82	681811	40.39	ppb	92
29) 2-Nitrophenol	5.384	139	262582	39.76	ppb	83

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P1697\
 Data File : 2p40520.D
 Acq On : 9 Sep 2014 3:19 pm
 Operator : samtap
 Sample : op77878-ms
 Misc : op77878,e2p1697,500
 ALS Vial : 20 Sample Multiplier: 1

Quant Time: Sep 09 16:47:55 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M2P1691.M
 Quant Title : Semi Volatile Extractables by GC/MS
 QLast Update : Fri Sep 05 20:04:39 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
30) 2,4-Dimethylphenol	5.448	107	489344	47.93	ppb	99
31) Benzoic acid	5.582	105	261317	39.03	ppb	97
32) bis(2-Chloroethoxy)met...	5.496	93	439462	42.26	ppb	99
33) 2,4-Dichlorophenol	5.609	162	431364	44.04	ppb	98
34) 2,6-Dichlorophenol	5.774	162	432505	44.27	ppb	97
36) 1,2,4-Trichlorobenzene	5.646	180	321795	28.46	ppb	96
38) Naphthalene	5.705	128	1030876	30.56	ppb	99
39) 4-Chloroaniline	5.769	127	289107	20.65	ppb	98
40) 2,3-Dichloroaniline	6.518	161	498963	40.85	ppb	96
41) Caprolactam	6.063	113	51154	18.12	ppb	85
42) Hexachlorobutadiene	5.807	225	156172	24.60	ppb	99
43) 4-Chloro-3-methylphenol	6.197	107	429314	47.14	ppb	93
44) 2-Methylnaphthalene	6.277	141	820222	38.90	ppb	97
45) 1-Methylnaphthalene	6.357	141	768836	38.46	ppb	98
46) Dimethylnaphthalene	6.791	156	770483	39.11	ppb	99
48) Hexachlorocyclopentadiene	6.406	237	32541	15.02	ppb	98
49) 2,4,6-Trichlorophenol	6.529	196	309616	45.53	ppb	98
50) 2,4,5-Trichlorophenol	6.577	196	347257	47.71	ppb	100
52) 2-Chloronaphthalene	6.678	162	741081	35.46	ppb	99
53) Biphenyl	6.657	154	1085351	39.55	ppb	99
54) 2-Nitroaniline	6.775	65	290345	41.76	ppb	89
55) Dimethylphthalate	6.914	163	1004896	43.69	ppb	98
56) Acenaphthylene	7.015	152	1073496	29.74	ppb	100
57) 2,6-Dinitrotoluene	6.973	165	213076	38.86	ppb	97
58) 3-Nitroaniline	7.117	138	203529	31.02	ppb	94
59) Acenaphthene	7.160	153	897975	38.51	ppb	98
60) 2,4-Dinitrophenol	7.219	184	87797	27.31	ppb	96
61) 4-Nitrophenol	7.320	109	126450	45.75	ppb #	1
62) Dibenzofuran	7.299	168	1303544	41.50	ppb	97
63) 2,4-Dinitrotoluene	7.310	165	286325	39.56	ppb	75
64) 2,3,4,6-Tetrachlorophenol	7.422	232	266678	44.76	ppb	95
65) Diethylphthalate	7.491	149	1025083	44.85	ppb	97
66) Fluorene	7.582	166	1042872	41.91	ppb	98
67) 4-Chlorophenyl-phenyle...	7.577	204	488451	44.31	ppb	87
68) 4-Nitroaniline	7.625	138	227792	36.97	ppb	91
70) 4,6-Dinitro-2-methylph...	7.657	198	65139	16.92	ppb	92
71) n-Nitrosodiphenylamine	7.684	169	636839	41.01	ppb	99
72) 1,2-Diphenylhydrazine	7.711	77	835836	45.57	ppb	93
74) 4-Bromophenyl-phenylether	8.000	248	269339	42.30	ppb	98
75) Hexachlorobenzene	8.069	284	320617	41.69	ppb	98
76) Pentachlorophenol	8.267	266	181593	46.28	ppb	98
77) Phenanthrene	8.443	178	1388763	39.70	ppb	99
78) Anthracene	8.497	178	1397189	39.68	ppb	100
79) Carbazole	8.673	167	1391317	46.51	ppb	99
80) Di-n-butylphthalate	9.037	149	1750613	46.49	ppb	99
81) Fluoranthene	9.765	202	1520524	37.56	ppb	98
82) Octadecane	8.315	43	406954	44.33	ppb	83
84) Pyrene	10.043	202	1515721	45.30	ppb	99
86) Butylbenzylphthalate	10.957	149	684082	50.05	ppb	97
88) Benzo[a]anthracene	11.701	228	1182411	39.59	ppb	98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P1697\
Data File : 2p40520.D
Acq On : 9 Sep 2014 3:19 pm
Operator : samtap
Sample : op77878-ms
Misc : op77878,e2p1697,500
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Sep 09 16:47:55 2014
Quant Method : C:\MSDCHEM\1\METHODS\M2P1691.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri Sep 05 20:04:39 2014
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
89)	3,3'-Dichlorobenzidine	11.695	252	432476	41.20	ppb	96
90)	Chrysene	11.754	228	1019473	39.59	ppb	99
91)	bis(2-Ethylhexyl)phtha...	11.824	149	850168	48.02	ppb	96
93)	Di-n-octylphthalate	12.765	149	1347743	55.97	ppb	94
94)	Benzo[b]fluoranthene	13.230	252	922464m	42.75	ppb	
95)	Benzo[k]fluoranthene	13.263	252	817248	41.57	ppb	99
96)	Benzo[a]pyrene	13.653	252	708163	38.03	ppb	97
97)	Indeno[1,2,3-cd]pyrene	15.140	276	745651	34.52	ppb	93
99)	Dibenz[a,h]anthracene	15.161	278	616320	35.97	ppb	97
100)	7,12-Dimethylbenz(a)an...	13.209	256	334374	37.86	ppb	91
101)	Benzo[g,h,i]perylene	15.530	276	582973	34.36	ppb	94
103)	Benzaldehyde	4.277	105	306904	48.02	ppb	99
105)	Atrazine	8.171	215	121809	41.23	ppb	89
106)	1,2,4,5-Tetrachloroben...	6.416	216	400631	36.07	ppb	97

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

Manual Integration Approval Summary

Sample Number:

OP77878-MS

Method:

SW846 8270D

Lab FileID:

2P40520.D

Analyst approved:

09/09/14 16:52 Ashley Dye

Injection Time:

09/09/14 15:19

Supervisor approved:

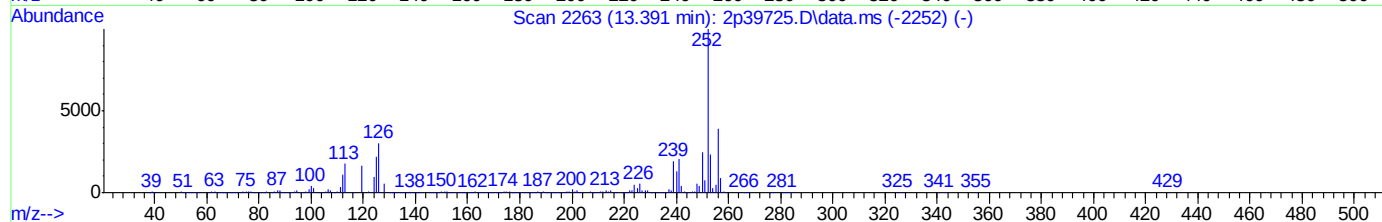
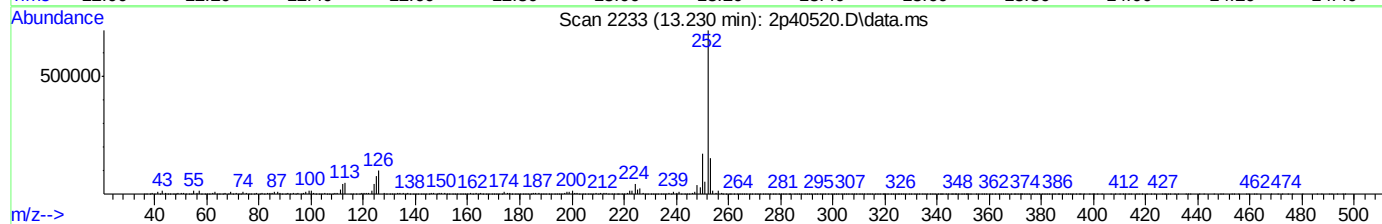
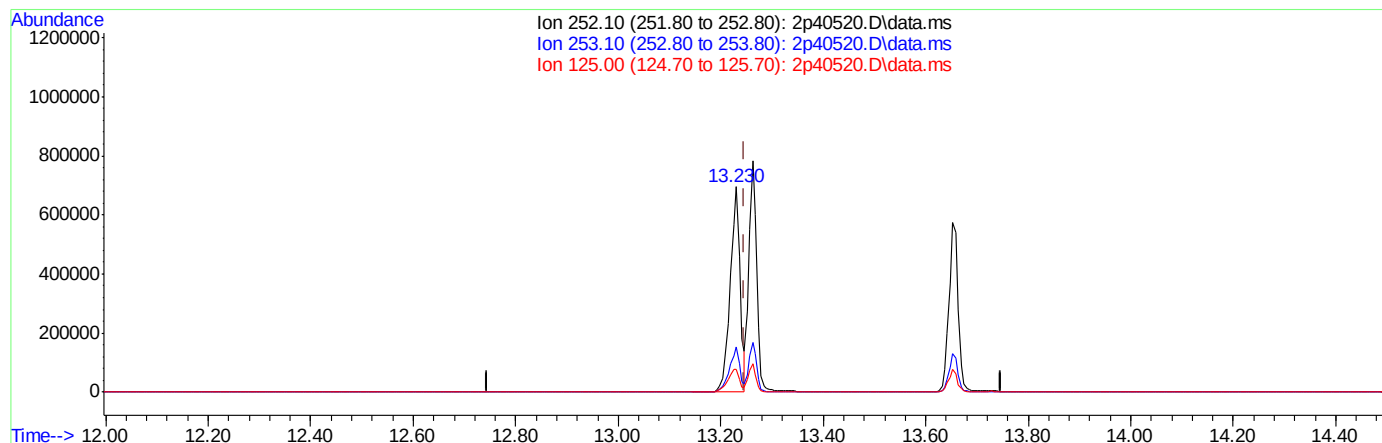
09/10/14 08:51 Kristin Weiler

Parameter	CAS	Sig#	R.T. (min.)	Reason
Benzo(b)fluoranthene	205-99-2		13.23	Overlapping peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2P1697\
Data File : 2p40520.D
Acq On : 9 Sep 2014 3:19 pm
Operator : samtap
Sample : op77878-ms
Misc : op77878,e2p1697,500
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Sep 09 15:36:36 2014
Quant Method : C:\MSDCHEM\1\METHODS\M2P1691.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri Sep 05 20:04:39 2014
Response via : Initial Calibration



TIC: 2p40520.D\data.ms

(94) Benzo[b]fluoranthene (t)

13.230min (-0.016) 42.75ppb m

response 922464

Ion	Exp%	Act%
252.10	100	100
253.10	21.90	22.06
125.00	13.80	10.99
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P1697\
 Data File : 2p40521.D
 Acq On : 9 Sep 2014 3:42 pm
 Operator : samtap
 Sample : op77878-msd
 Misc : op77878,e2p1697,500
 ALS Vial : 21 Sample Multiplier: 1

Quant Time: Sep 09 16:48:50 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M2P1691.M
 Quant Title : Semi Volatile Extractables by GC/MS
 QLast Update : Tue Sep 09 16:48:10 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.635	152	345772	40.00	ppb	0.00
24) Naphthalene-d8	5.689	136	1228511	40.00	ppb	0.00
47) Acenaphthene-d10	7.128	164	697779	40.00	ppb	0.00
69) Phenanthrene-d10	8.422	188	1133303	40.00	ppb	0.00
83) Chrysene-d12	11.717	240	976458	40.00	ppb	0.00
92) Perylene-d12	13.728	264	628508	40.00	ppb	0.00
102) 1,4-Dichlorobenzene-d4a	4.635	152	345772	40.00	ppb	0.00
104) Acenaphthene-d10a	7.128	164	697779	40.00	ppb	0.00
107) Chrysene-d12a	11.717	240	976458	40.00	ppb	0.00

System Monitoring Compounds

5) 2-Fluorophenol	3.598	112	327626	35.26	ppb	0.00
Spiked Amount 50.000	Range 11 - 58		Recovery =	70.52%#		
8) Phenol-d5	4.421	99	349605	29.61	ppb	0.00
Spiked Amount 50.000	Range 10 - 59		Recovery =	59.22%#		
25) Nitrobenzene-d5	5.100	82	398859	40.24	ppb	0.00
Spiked Amount 50.000	Range 19 - 61		Recovery =	80.48%#		
51) 2-Fluorobiphenyl	6.577	172	957128	42.13	ppb	0.00
Spiked Amount 50.000	Range 21 - 58		Recovery =	84.26%#		
73) 2,4,6-Tribromophenol	7.796	330	155581	46.84	ppb	0.00
Spiked Amount 50.000	Range 12 - 68		Recovery =	93.68%#		
85) Terphenyl-d14	10.262	244	949147	46.96	ppb	0.00
Spiked Amount 50.000	Range 16 - 65		Recovery =	93.92%#		

Target Compounds

						Qvalue
2) 1,4-Dioxane	1.907	88	68462	19.86	ppb	93
3) Pyridine	2.282	79	160984	17.90	ppb	86
4) N-Nitrosodimethylamine	2.239	74	131232	25.78	ppb	# 68
6) Indene	4.849	116	597169	33.91	ppb	98
7) Cumene	3.961	105	706191	26.91	ppb	98
9) Phenol	4.427	94	380969	28.64	ppb	# 60
10) Aniline	4.378	93	218256	14.61	ppb	91
11) bis(2-Chloroethyl)ether	4.421	93	317667	36.76	ppb	94
12) 2-Chlorophenol	4.491	128	461143	38.39	ppb	97
13) Decane	4.507	57	292768	24.13	ppb	93
14) 1,3-Dichlorobenzene	4.587	146	292506	21.51	ppb	99
15) 1,4-Dichlorobenzene	4.651	146	305303	22.00	ppb	98
16) Benzyl alcohol	4.785	108	257657	38.62	ppb	100
17) 1,2-Dichlorobenzene	4.774	146	307277	23.99	ppb	97
18) Acetophenone	4.977	105	512309	35.32	ppb	69
19) 2-Methylphenol	4.903	108	349689	38.62	ppb	95
20) 2,2'-oxybis(1-Chloropr...	4.870	121	98479	33.17	ppb	# 85
21) 3&4-Methylphenol	5.036	108	370205	38.82	ppb	98
22) n-Nitroso-di-n-propyla...	4.983	70	247915	39.22	ppb	93
23) Hexachloroethane	5.047	201	85236	16.45	ppb	92
26) Nitrobenzene	5.117	77	354848	35.96	ppb	90
27) Quinoline	5.988	129	722619	36.63	ppb	100
28) Isophorone	5.314	82	630003	38.76	ppb	91
29) 2-Nitrophenol	5.384	139	237010	37.27	ppb	83

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P1697\
 Data File : 2p40521.D
 Acq On : 9 Sep 2014 3:42 pm
 Operator : samtap
 Sample : op77878-msd
 Misc : op77878,e2p1697,500
 ALS Vial : 21 Sample Multiplier: 1

Quant Time: Sep 09 16:48:50 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M2P1691.M
 Quant Title : Semi Volatile Extractables by GC/MS
 QLast Update : Tue Sep 09 16:48:10 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
30) 2,4-Dimethylphenol	5.448	107	459694	46.77	ppb	97
31) Benzoic acid	5.587	105	277235	43.01	ppb	94
32) bis(2-Chloroethoxy)met...	5.496	93	397364	39.69	ppb	100
33) 2,4-Dichlorophenol	5.609	162	412957	43.79	ppb	95
34) 2,6-Dichlorophenol	5.774	162	414100	44.02	ppb	98
36) 1,2,4-Trichlorobenzene	5.646	180	312937	28.74	ppb	98
38) Naphthalene	5.705	128	977143	30.09	ppb	99
39) 4-Chloroaniline	5.769	127	251987	18.69	ppb	97
40) 2,3-Dichloroaniline	6.518	161	444196	37.78	ppb	95
41) Caprolactam	6.069	113	52475	19.30	ppb	90
42) Hexachlorobutadiene	5.806	225	166535	27.25	ppb	98
43) 4-Chloro-3-methylphenol	6.202	107	411158	46.89	ppb	99
44) 2-Methylnaphthalene	6.272	141	749472	36.92	ppb	97
45) 1-Methylnaphthalene	6.352	141	682898	35.48	ppb	97
46) Dimethylnaphthalene	6.791	156	706848	37.27	ppb	97
48) Hexachlorocyclopentadiene	6.406	237	33010	15.34	ppb	95
49) 2,4,6-Trichlorophenol	6.529	196	292664	44.50	ppb	99
50) 2,4,5-Trichlorophenol	6.577	196	315017	44.76	ppb	98
52) 2-Chloronaphthalene	6.678	162	720843	35.66	ppb	99
53) Biphenyl	6.657	154	979586	36.91	ppb	99
54) 2-Nitroaniline	6.775	65	269427	40.07	ppb	86
55) Dimethylphthalate	6.914	163	940140	42.27	ppb	98
56) Acenaphthylene	7.015	152	1016965	29.13	ppb	99
57) 2,6-Dinitrotoluene	6.973	165	202884	38.26	ppb	97
58) 3-Nitroaniline	7.117	138	206577	32.56	ppb	98
59) Acenaphthene	7.154	153	846128	37.52	ppb	98
60) 2,4-Dinitrophenol	7.219	184	71251	22.92	ppb	89
61) 4-Nitrophenol	7.320	109	126456	47.31	ppb	# 1
62) Dibenzofuran	7.299	168	1208591	39.79	ppb	96
63) 2,4-Dinitrotoluene	7.315	165	262810	37.55	ppb	84
64) 2,3,4,6-Tetrachlorophenol	7.422	232	250949	43.55	ppb	93
65) Diethylphthalate	7.491	149	971406	43.95	ppb	99
66) Fluorene	7.582	166	955960	39.73	ppb	98
67) 4-Chlorophenyl-phenyle...	7.577	204	462743	43.41	ppb	88
68) 4-Nitroaniline	7.625	138	217189	36.45	ppb	92
70) 4,6-Dinitro-2-methylph...	7.657	198	57344	15.37	ppb	73
71) n-Nitrosodiphenylamine	7.684	169	586731	39.00	ppb	100
72) 1,2-Diphenylhydrazine	7.711	77	785112	44.19	ppb	94
74) 4-Bromophenyl-phenylether	7.999	248	264263	42.84	ppb	94
75) Hexachlorobenzene	8.069	284	307535	41.27	ppb	99
76) Pentachlorophenol	8.267	266	178655	46.99	ppb	98
77) Phenanthrene	8.443	178	1326118	39.13	ppb	100
78) Anthracene	8.497	178	1330024	38.99	ppb	100
79) Carbazole	8.673	167	1335350	46.07	ppb	99
80) Di-n-butylphthalate	9.037	149	1626322	44.58	ppb	98
81) Fluoranthene	9.764	202	1483939	37.83	ppb	99
82) Octadecane	8.315	43	375360	42.21	ppb	84
84) Pyrene	10.043	202	1525541	43.84	ppb	100
86) Butylbenzylphthalate	10.957	149	677117	47.64	ppb	96
88) Benzo[a]anthracene	11.701	228	1191151	38.34	ppb	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P1697\
Data File : 2p40521.D
Acq On : 9 Sep 2014 3:42 pm
Operator : samtap
Sample : op77878-msd
Misc : op77878,e2p1697,500
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Sep 09 16:48:50 2014
Quant Method : C:\MSDCHEM\1\METHODS\M2P1691.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Tue Sep 09 16:48:10 2014
Response via : Initial Calibration

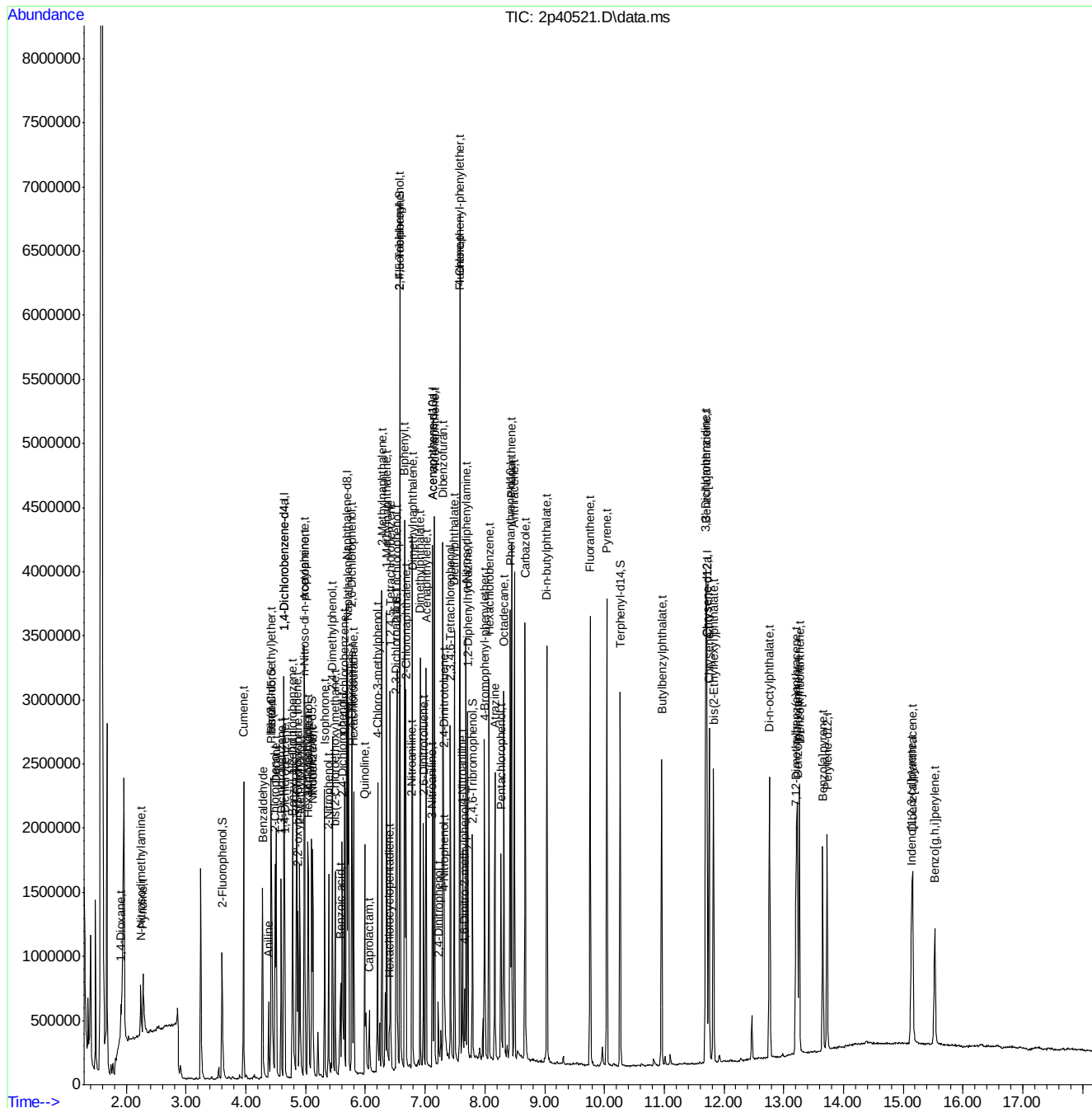
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
89)	3,3'-Dichlorobenzidine	11.695	252	433036	39.67	ppb	98
90)	Chrysene	11.754	228	1048923	39.17	ppb	99
91)	bis(2-Ethylhexyl)phtha...	11.824	149	844667	45.88	ppb	97
93)	Di-n-octylphthalate	12.765	149	1337253	55.53	ppb	95
94)	Benzo[b]fluoranthene	13.230	252	930976	43.14	ppb	97
95)	Benzo[k]fluoranthene	13.262	252	807437	41.06	ppb	98
96)	Benzo[a]pyrene	13.653	252	696064	37.38	ppb	97
97)	Indeno[1,2,3-cd]pyrene	15.140	276	707188	32.74	ppb	93
99)	Dibenz[a,h]anthracene	15.161	278	577398	33.70	ppb	98
100)	7,12-Dimethylbenz(a)an...	13.209	256	329801	37.34	ppb	89
101)	Benzo[g,h,i]perylene	15.530	276	550773	32.46	ppb	94
103)	Benzaldehyde	4.277	105	280025	45.72	ppb	98
105)	Atrazine	8.165	215	116313	40.71	ppb #	77
106)	1,2,4,5-Tetrachloroben...	6.416	216	392991	36.59	ppb	98

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P1697\
Data File : 2p40521.D
Acq On : 9 Sep 2014 3:42 pm
Operator : samtap
Sample : op77878-msd
Misc : op77878, e2p1697, 500
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Sep 09 16:48:50 2014
Quant Method : C:\MSDCHEM\1\METHODS\M2P1691.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Tue Sep 09 16:48:10 2014
Response via : Initial Calibration



M2P1691.M Tue Sep 09 16:49:06 2014 RPT1

Page: 4

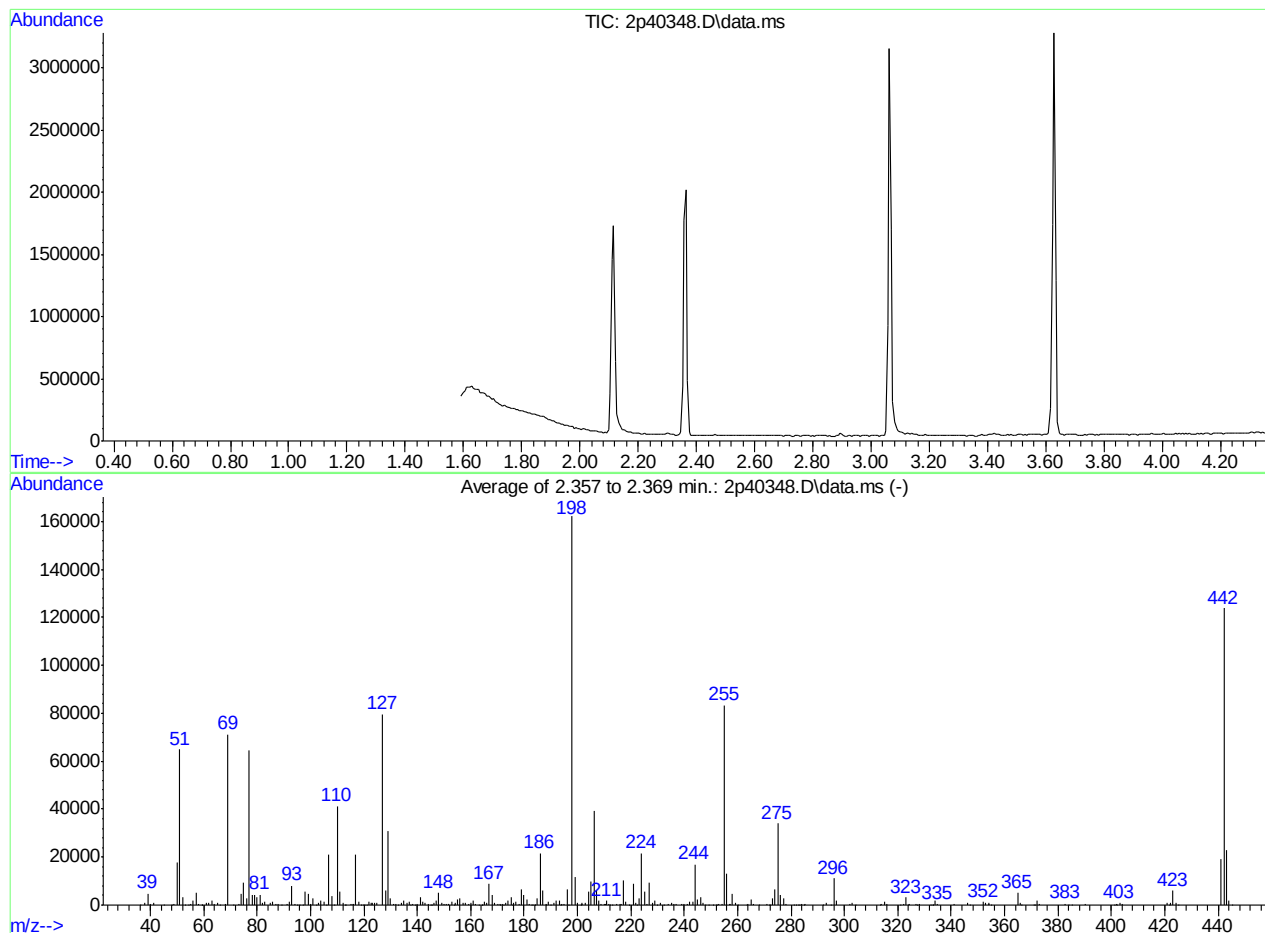
9.4.4

DFTPP

Data File : C:\msdchem\1\DATA\2P1691\2p40348.D
 Acq On : 5 Sep 2014 12:44 pm
 Sample : dftpp
 Misc : op77543,e2p1691,1000,,,1,1
 MS Integration Params: events.e

Vial: 1
 Operator: harpreek
 Inst : MS2P
 Multiplr: 1.00

Method : C:\MSDCHEM\1\METHODS\DFTPP2P.M (ChemStation Integrator)
 Title :



AutoFind: Scans 131, 132, 133; Background Corrected with Scan 127

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	40.1	64946	PASS
68	69	0.00	2	0.6	455	PASS
69	198	0.00	100	44.0	71273	PASS
70	69	0.00	2	0.0	0	PASS
127	198	40	60	49.1	79624	PASS
197	198	0.00	1	0.1	129	PASS
198	198	100	100	100.0	162117	PASS
199	198	5	9	7.2	11624	PASS
275	198	10	30	21.0	34088	PASS
365	198	1	100	3.0	4938	PASS
441	443	0.01	100	84.9	19345	PASS
442	198	40	100	76.3	123747	PASS
443	442	17	23	18.4	22795	PASS

Average of 2.357 to 2.369 min.: 2p40348.D\data.ms

dftpp

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.00	65	53.00	123	63.95	307	78.10	4202
38.00	875	54.05	95	65.00	1077	79.00	4072
39.00	4682	55.05	483	65.90	200	80.00	3169
39.90	539	55.95	1986	68.05	455	81.00	4227
41.05	792	57.00	5234	69.00	71273	82.00	1045
44.90	237	58.05	457	71.00	216	83.00	1322
48.00	145	59.10	99	73.10	334	85.00	859
49.00	605	59.30	115	74.00	4885	85.90	1581
50.00	17689	61.00	812	75.00	9512	87.05	713
51.05	64946	61.95	756	76.10	3055	87.90	672
52.00	3361	63.00	2100	77.10	64610	88.90	88

Average of 2.357 to 2.369 min.: 2p40348.D\data.ms

dftpp

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
91.05	511	102.00	143	112.90	174	122.00	1597
92.00	1194	102.95	955	113.10	159	122.90	1136
93.00	8059	104.00	1917	115.00	471	123.05	1148
93.95	468	105.05	1626	115.80	547	123.90	1067
95.00	217	105.95	174	115.95	586	125.00	874
96.00	243	106.95	21051	117.00	21037	127.00	79624
97.00	145	108.00	3584	118.00	1349	128.00	6160
98.00	5663	109.00	191	119.00	160	129.00	30791
99.00	4594	110.00	41187	119.80	176	130.00	2667
100.00	553	111.00	5426	120.10	189	131.00	615
100.95	2948	112.05	941	121.20	144	132.05	363

Average of 2.357 to 2.369 min.: 2p40348.D\data.ms

dftpp

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
132.95	36	142.95	954	151.80	308	161.95	574
134.05	995	144.00	355	153.10	1501	163.10	207
135.00	1689	144.90	149	153.70	102	164.10	159
136.00	1000	145.20	131	154.05	1078	164.30	183
137.00	1320	146.05	1046	154.95	2285	165.00	1356
137.60	121	147.05	2010	156.05	2872	165.95	855
138.10	262	148.00	5119	157.00	969	166.95	8743
139.20	135	149.05	1129	157.90	816	168.10	4205
140.05	404	149.95	368	159.05	377	169.00	999
141.00	3396	151.00	695	160.00	912	169.95	350
141.95	1423	151.50	417	161.00	2090	170.85	382

Average of 2.357 to 2.369 min.: 2p40348.D\data.ms

dftpp

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
171.10	165	180.00	4231	188.30	155	198.00	162117
171.95	595	181.10	2266	188.95	1298	199.00	11624
172.20	110	182.00	358	190.00	226	200.10	1137
173.00	903	182.80	119	191.00	732	201.20	179
174.05	1664	183.00	229	192.00	1947	201.45	825
175.05	3210	183.80	209	193.05	1895	201.70	294
175.70	100	184.20	229	193.80	238	203.00	1162
175.95	928	185.00	2912	194.00	330	204.00	5635
177.00	1376	186.05	21635	195.00	457	205.05	10027
178.00	621	187.05	6070	196.05	6331	206.10	39370
179.00	6341	188.05	663	196.70	129	207.05	5922

Average of 2.357 to 2.369 min.: 2p40348.D\data.ms

dftpp

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
208.05	1871	217.00	10535	228.00	933	241.05	434
208.95	564	218.05	1580	229.00	1911	242.00	1212
209.95	592	219.10	113	229.80	229	243.05	1341
210.50	537	221.00	8919	231.00	1137	244.05	16942

211.00	1694	221.90	840	232.10	84	245.10	2207
211.65	294	222.10	245	233.95	680	246.00	3145
212.00	218	222.95	2680	235.05	763	247.00	741
212.80	96	224.10	21630	236.00	525	247.90	91
214.80	342	225.05	5406	237.00	655	248.95	139
215.95	595	226.00	668	239.05	344	250.95	192
216.20	364	227.00	9543	240.00	464	251.90	97

Average of 2.357 to 2.369 min.: 2p40348.D\data.ms
dftpp

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
252.10	187	263.80	285	277.05	3052	294.90	157
253.05	568	265.00	2228	278.00	465	296.00	11010
254.00	312	265.85	486	281.20	205	296.95	1833
255.00	83360	267.90	144	281.80	92	302.05	275
256.00	13153	270.85	292	282.80	203	303.00	1113
256.90	511	271.90	130	283.00	163	304.00	96
257.15	570	272.20	132	283.95	421	313.40	115
258.00	4649	272.95	2638	284.80	101	313.95	549
259.00	804	274.00	6528	285.05	455	315.00	1621
260.00	97	275.00	34088	291.90	127	316.00	537
263.20	202	276.00	4307	293.00	913	320.90	88

Average of 2.357 to 2.369 min.: 2p40348.D\data.ms
dftpp

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
322.10	334	334.95	451	366.20	122	402.10	684
323.10	3090	341.00	380	370.90	90	403.00	899
323.90	157	346.00	851	371.10	163	404.00	469
324.10	310	347.10	102	372.00	1890	421.00	1132
326.90	574	352.00	1201	373.00	455	421.80	215
327.10	128	353.00	801	382.80	539	422.00	814
327.85	403	353.90	495	384.00	232	423.00	6015
332.10	115	354.10	818	385.00	144	424.00	1026
332.90	156	354.90	198	390.05	304	425.10	116
333.10	199	365.00	4938	400.95	244	441.05	19345
334.00	2089	365.85	725	401.80	135	442.10	123747

Average of 2.357 to 2.369 min.: 2p40348.D\data.ms
dftpp

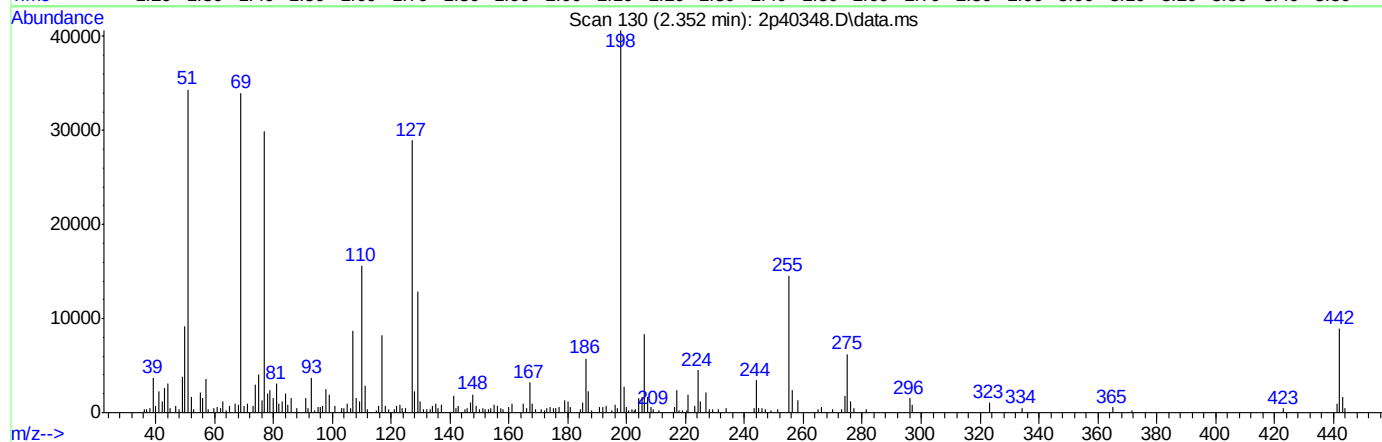
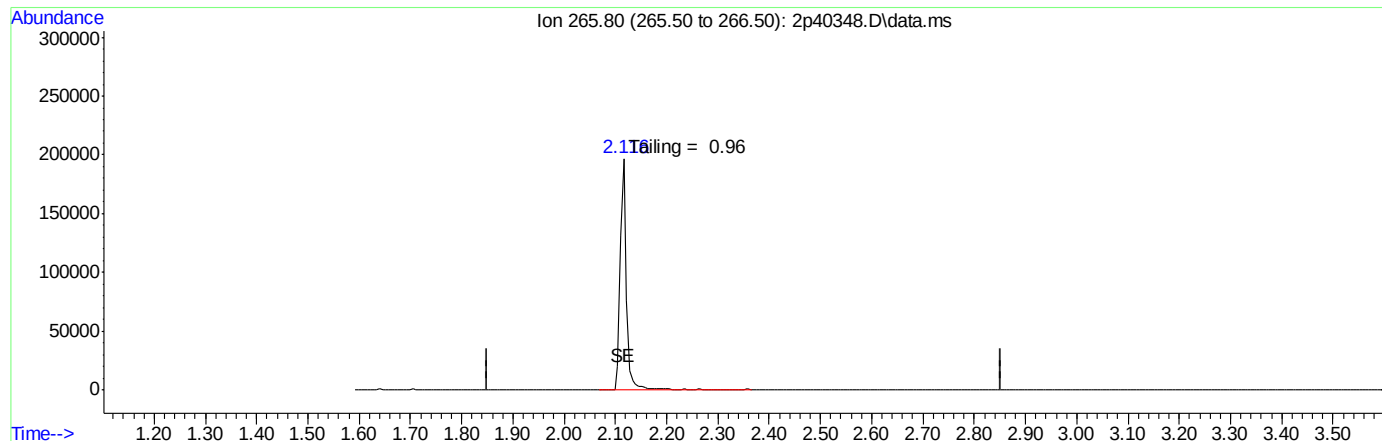
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
443.05	22795						
444.10	1912						
445.00	110						

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2P1691\
Data File : 2p40348.D
Acq On : 5 Sep 2014 12:44 pm
Operator : harpreek
Sample : dftpp
Misc : op77543,e2p1691,1000,,,1,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 05 16:30:01 2014
Quant Method : C:\MSDCHEM\1\METHODS\DFTPP2P.M
Quant Title :
QLast Update : Thu May 29 09:05:38 2014
Response via : Initial Calibration



(1) Pentachlorophenol

2.352min (-2.352) 0.00ppb

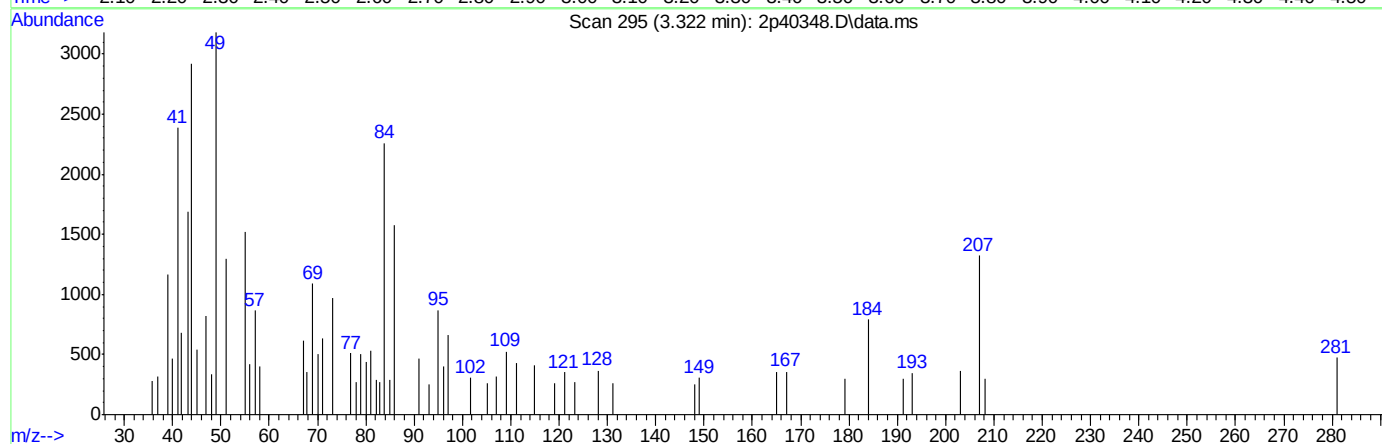
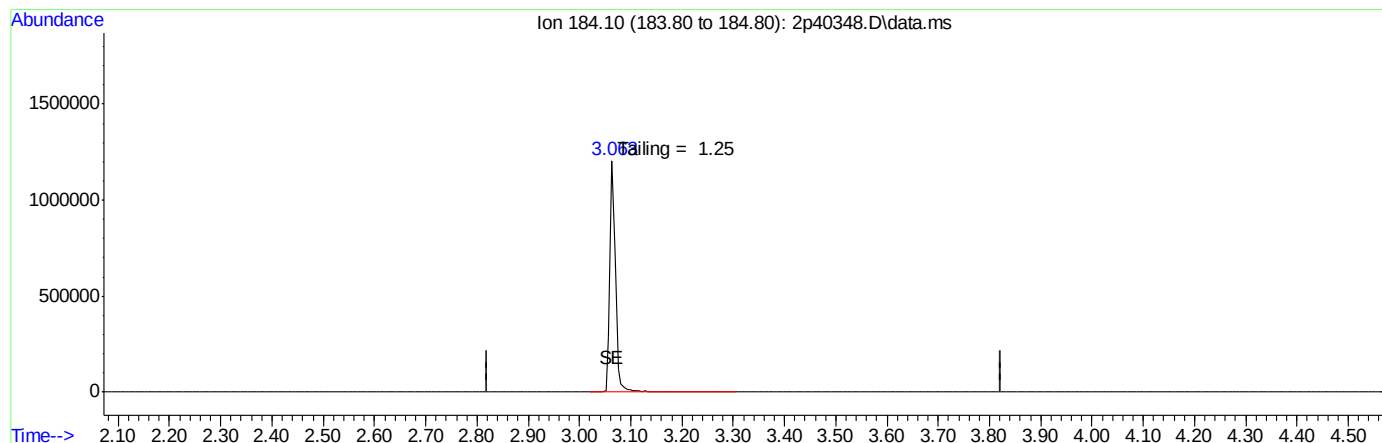
response 0

Ion	Exp%	Act%
265.80	100	0.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2P1691\
Data File : 2p40348.D
Acq On : 5 Sep 2014 12:44 pm
Operator : harpreek
Sample : dftpp
Misc : op77543,e2p1691,1000,,,1,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 05 16:30:01 2014
Quant Method : C:\MSDCHEM\1\METHODS\DFTPP2P.M
Quant Title :
QLast Update : Thu May 29 09:05:38 2014
Response via : Initial Calibration



(2) Benzidine

3.322min (-3.322) 0.00ppb

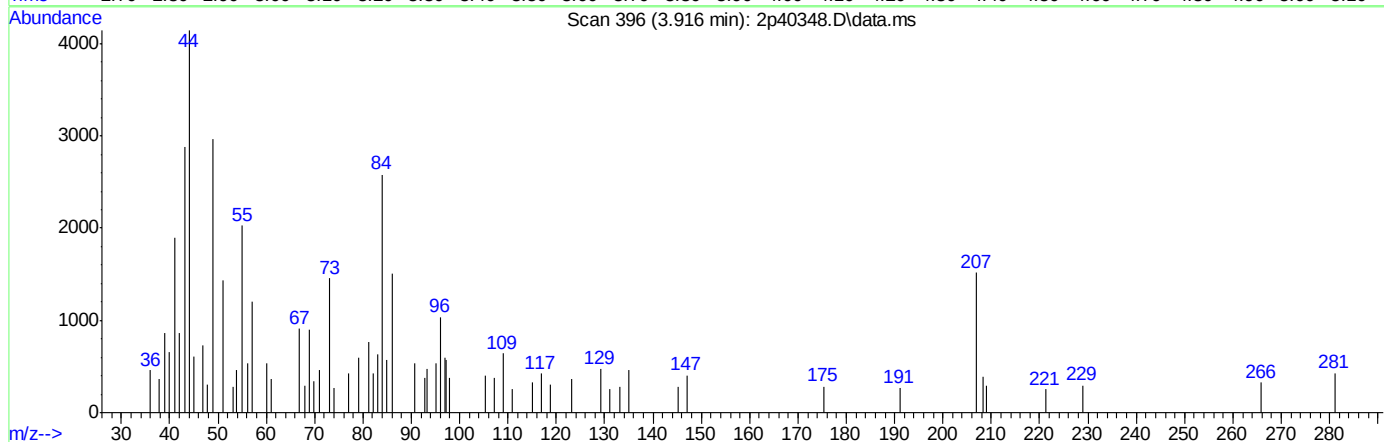
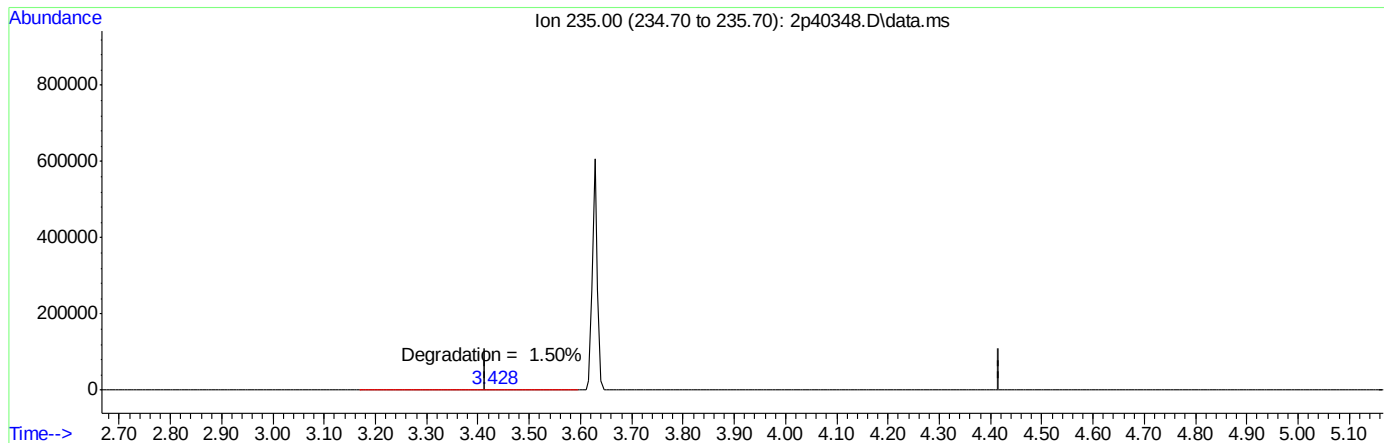
response 0

Ion	Exp%	Act%
184.10	100	0.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2P1691\
Data File : 2p40348.D
Acq On : 5 Sep 2014 12:44 pm
Operator : harpreek
Sample : dftpp
Misc : op77543,e2p1691,1000,,,1,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 05 16:30:01 2014
Quant Method : C:\MSDCHEM\1\METHODS\DFTPP2P.M
Quant Title :
QLast Update : Thu May 29 09:05:38 2014
Response via : Initial Calibration



TIC: 2p40348.D\data.ms

(3) PP-DDT

3.916min (-3.916) 0.00ppb

response 0

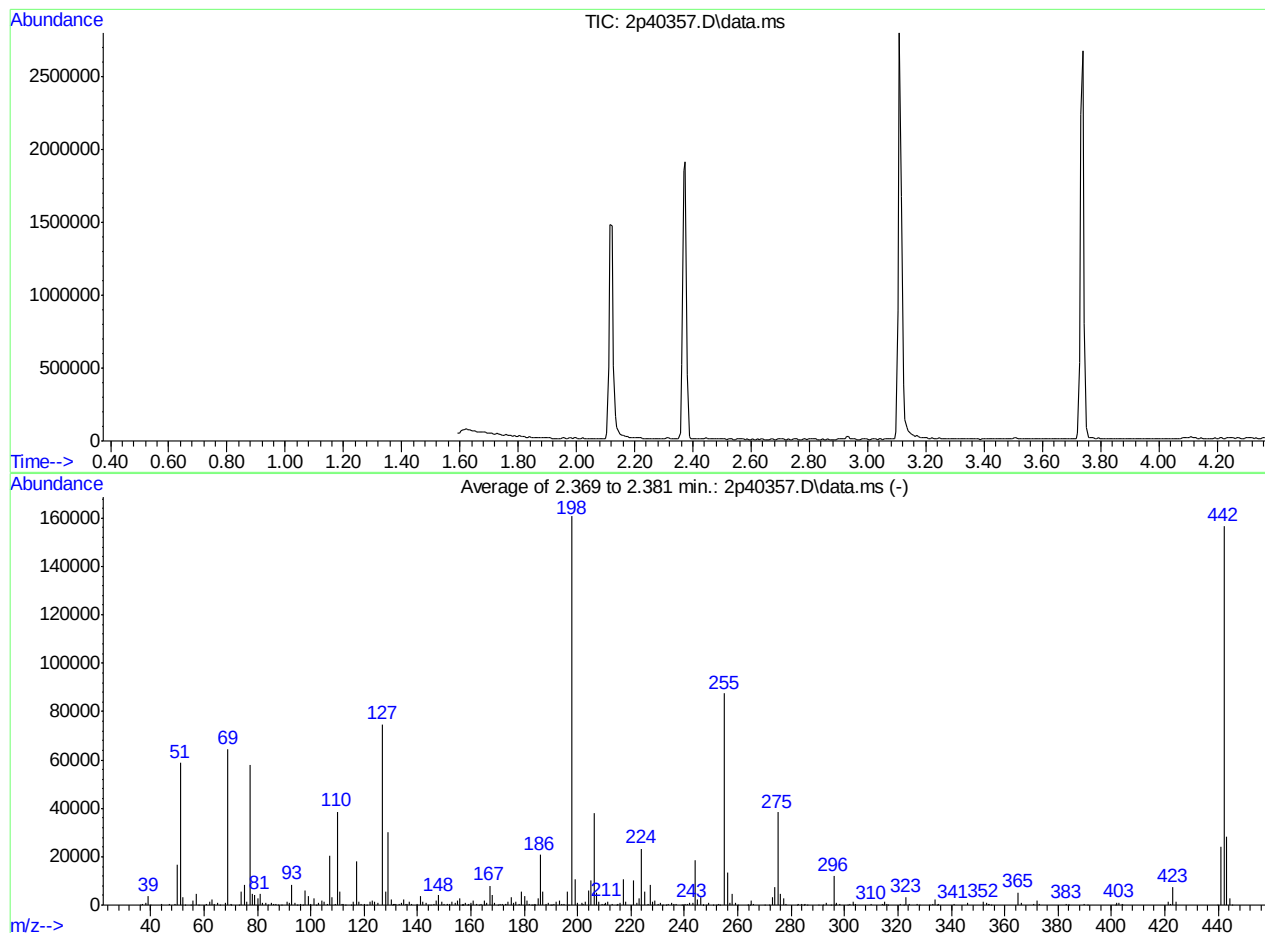
Ion	Exp%	Act%
235.00	100	0.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

DFTPP

Data File : C:\msdchem\1\DATA\2P1692\2p40357.D
 Acq On : 5 Sep 2014 4:26 pm
 Sample : dftpp
 Misc : op77543,e2p1692,1000,,,1,1
 MS Integration Params: events.e

Vial: 1
 Operator: harpreek
 Inst : MS2P
 Multiplr: 1.00

Method : C:\msdchem\1\METHODS\dftpp2p.M (ChemStation Integrator)
 Title :



AutoFind: Scans 133, 134, 135; Background Corrected with Scan 128

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	36.6	58842	PASS
68	69	0.00	2	1.1	732	PASS
69	198	0.00	100	40.2	64649	PASS
70	69	0.00	2	0.7	430	PASS
127	198	40	60	46.6	74821	PASS
197	198	0.00	1	0.1	99	PASS
198	198	100	100	100.0	160661	PASS
199	198	5	9	6.5	10479	PASS
275	198	10	30	23.9	38356	PASS
365	198	1	100	3.3	5287	PASS
441	443	0.01	100	83.9	23900	PASS
442	198	40	100	97.6	156797	PASS
443	442	17	23	18.2	28485	PASS

Average of 2.369 to 2.381 min.: 2p40357.D\data.ms

dftpp

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
35.90	232	53.10	190	68.10	732	80.00	2860
37.00	265	55.00	123	69.00	64649	81.00	4449
38.00	749	56.00	1659	70.00	430	82.05	1046
39.10	3790	57.00	4600	70.20	92	83.05	1026
40.00	71	58.00	199	73.10	244	83.90	204
43.95	279	60.90	675	74.05	5806	85.05	1158
46.95	363	62.05	1198	75.00	8446	85.90	596
49.00	630	63.05	2380	76.00	1342	87.05	550
50.05	16623	64.00	361	77.05	57715	87.90	88
51.10	58842	65.05	1058	78.00	4779	89.00	102
52.05	3042	65.90	103	79.00	3985	91.00	1276

Average of 2.369 to 2.381 min.: 2p40357.D\data.ms

dftpp

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
92.05	1145	103.00	760	112.80	151	124.05	1284
93.00	8495	104.00	1944	115.20	87	125.05	714
93.95	809	105.00	1599	115.80	85	127.00	74821
95.00	221	106.05	436	116.05	1236	128.00	5541
96.05	412	107.00	20485	117.00	18266	129.00	30092
96.90	106	108.00	3264	118.05	1279	130.00	2560
98.00	6018	109.10	607	119.00	334	130.80	175
99.00	3910	110.00	38693	119.95	408	131.00	350
100.05	402	111.00	5675	121.00	106	131.25	250
101.00	2922	111.90	375	122.00	1191	131.95	411
101.90	96	112.05	344	123.00	1982	133.05	302

Average of 2.369 to 2.381 min.: 2p40357.D\data.ms

dftpp

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
134.00	712	144.95	220	155.00	1685	162.10	270
134.95	2169	146.00	684	156.00	2606	162.95	211
135.80	341	147.00	1914	156.70	90	163.95	338
136.10	449	148.00	4056	157.00	227	165.00	1660
137.05	1419	148.95	1228	157.20	383	165.20	114
137.90	484	150.05	276	157.95	732	166.05	1167
139.95	493	151.05	595	158.60	117	166.95	7973
141.00	3899	151.30	315	159.05	505	168.00	3961
142.10	1363	151.95	370	160.05	1107	169.00	770
143.00	755	153.00	1566	160.95	1741	170.15	230
143.95	225	153.95	1012	161.90	344	170.95	374

Average of 2.369 to 2.381 min.: 2p40357.D\data.ms

dftpp

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
171.95	571	181.85	302	190.15	191	201.50	831
172.90	530	182.80	112	191.00	597	201.85	490
173.10	340	183.00	101	192.00	1621	203.00	1261
173.95	1263	183.90	231	193.05	2024	204.00	5996
175.00	3037	184.10	260	194.10	537	205.05	10307
176.05	987	185.00	2777	194.85	277	206.10	38089
176.95	1581	186.00	20733	196.00	5724	207.05	4923
178.00	629	187.05	5531	196.70	99	207.95	1424
178.95	5750	188.05	655	198.00	160661	209.00	410
180.00	3929	188.95	1053	199.00	10479	210.10	581
181.10	1863	189.90	156	199.95	880	210.55	872

Average of 2.369 to 2.381 min.: 2p40357.D\data.ms

dftpp

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
211.05	1609	225.00	5403	235.90	491	246.80	182
213.00	259	226.20	581	237.00	581	247.00	237
214.80	180	227.00	8361	238.80	170	248.00	113
215.10	289	228.05	1603	239.20	154	248.95	874

216.00	801	228.95	1853	240.05	430	250.80	98
217.00	10634	230.00	279	241.00	445	252.10	136
218.00	1481	231.10	813	241.95	1087	252.90	257
221.10	10033	231.90	94	243.00	1151	253.30	96
222.00	716	232.95	197	244.05	18481	255.00	87376
223.00	2610	234.00	424	245.00	2343	256.00	13633
224.05	23204	235.10	716	246.00	3128	257.05	815

Average of 2.369 to 2.381 min.: 2p40357.D\data.ms
dftpp

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
257.95	4601	274.00	7405	290.00	88	303.30	94
259.05	960	275.00	38356	292.00	98	304.00	248
259.90	89	276.00	4871	293.00	814	310.05	256
263.60	176	277.00	2897	294.75	205	313.95	519
263.80	133	278.00	532	296.00	11941	314.70	180
264.60	138	282.10	144	296.70	101	315.05	1222
264.95	2080	282.75	394	297.00	1153	315.95	487
265.90	281	283.90	295	298.05	297	316.20	221
270.20	123	284.60	124	301.00	125	321.05	334
271.80	132	285.00	478	302.00	336	322.10	117
273.00	3064	286.00	142	303.05	1554	323.00	3385

Average of 2.369 to 2.381 min.: 2p40357.D\data.ms
dftpp

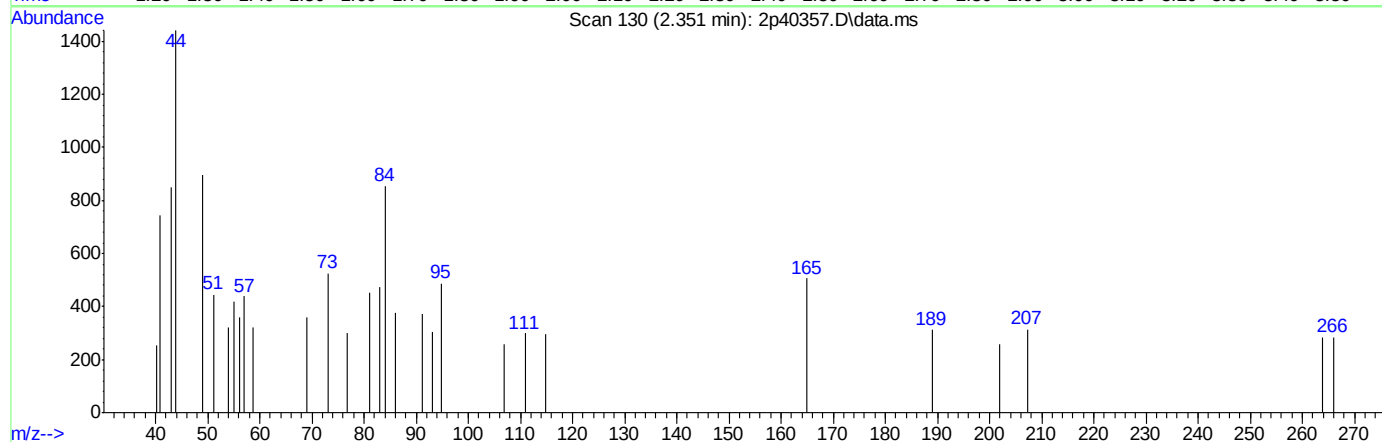
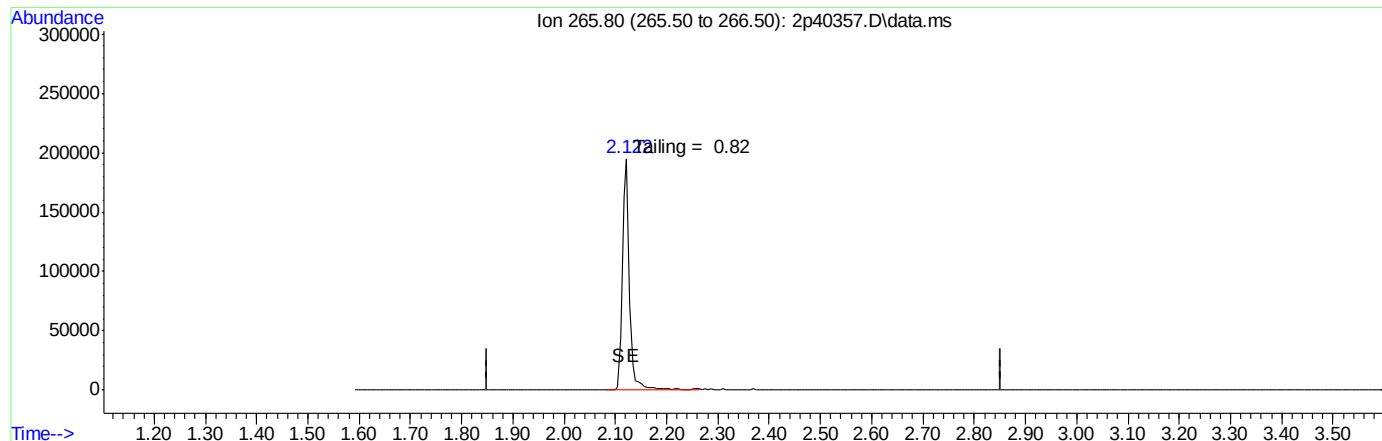
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
324.15	705	353.05	727	384.00	172	424.05	1241
327.00	687	353.90	533	389.95	307	439.80	125
328.00	121	354.10	584	391.10	105	441.05	23900
332.00	184	354.90	84	401.70	219	442.10	156797
332.95	335	365.00	5287	402.05	788	443.10	28485
334.05	2219	366.05	1026	402.95	1072	444.15	2727
334.70	96	371.05	515	403.90	132	445.00	90
335.15	494	372.00	1968	404.15	403		
340.95	536	373.10	433	421.05	1347		
346.05	994	383.05	529	422.00	698		
352.05	1184	383.70	91	423.00	7607		

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2P1692\
Data File : 2p40357.D
Acq On : 5 Sep 2014 4:26 pm
Operator : harprek
Sample : dftpp
Misc : op77543,e2p1692,1000,,,1,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 05 20:12:52 2014
Quant Method : C:\msdchem\1\METHODS\dftpp2p.M
Quant Title :
QLast Update : Thu May 29 09:05:38 2014
Response via : Initial Calibration



(1) Pentachlorophenol

2.352min (-2.352) 0.00ppb

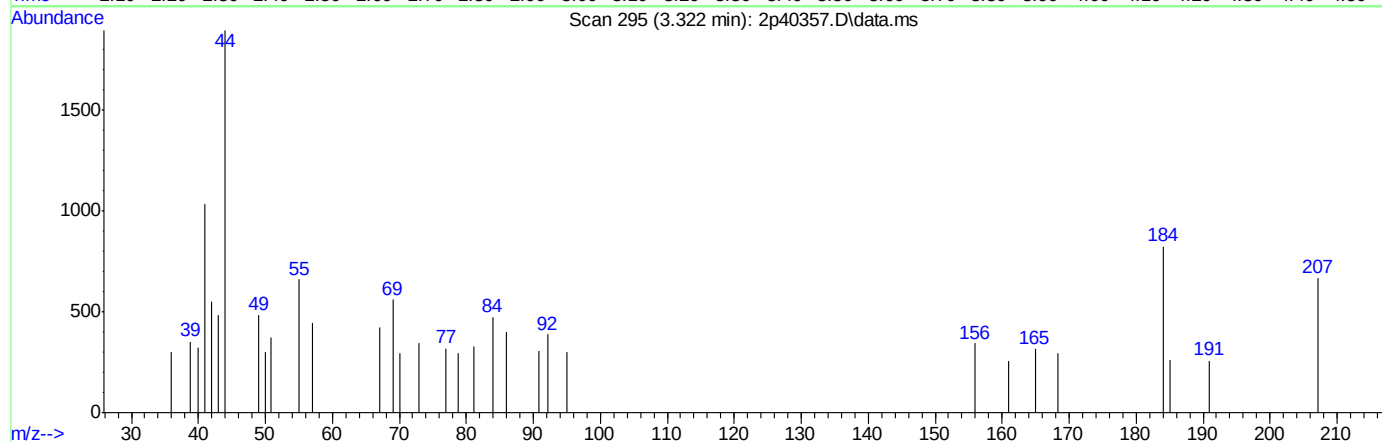
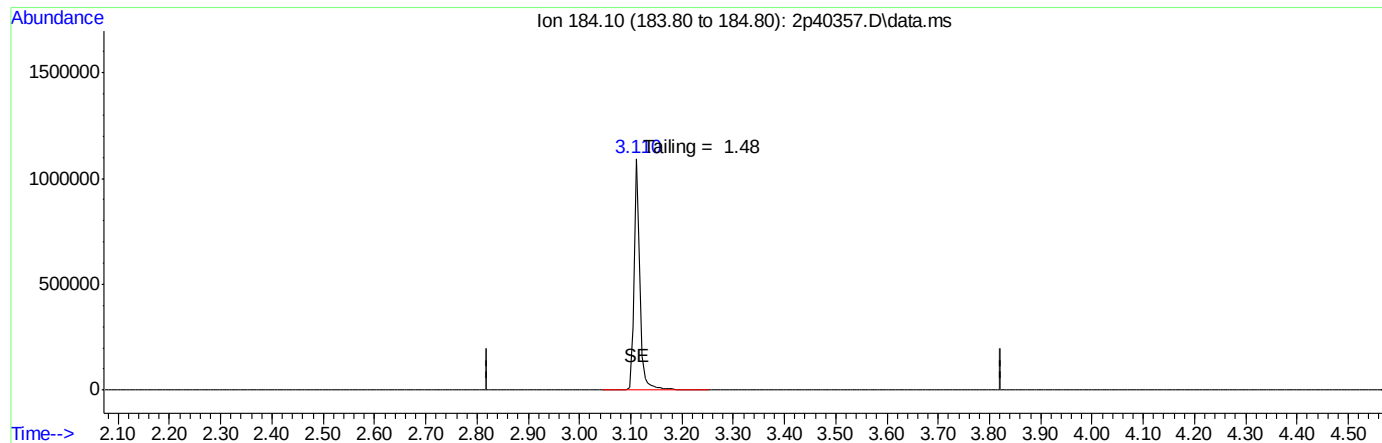
response 0

Ion	Exp%	Act%
265.80	100	0.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2P1692\
 Data File : 2p40357.D
 Acq On : 5 Sep 2014 4:26 pm
 Operator : harpreek
 Sample : dftpp
 Misc : op77543,e2p1692,1000,,,1,1
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 05 20:12:52 2014
 Quant Method : C:\msdchem\1\METHODS\dftpp2p.M
 Quant Title :
 QLast Update : Thu May 29 09:05:38 2014
 Response via : Initial Calibration



TIC: 2p40357.D\data.ms

(2) Benzidine

3.322min (-3.322) 0.00ppb

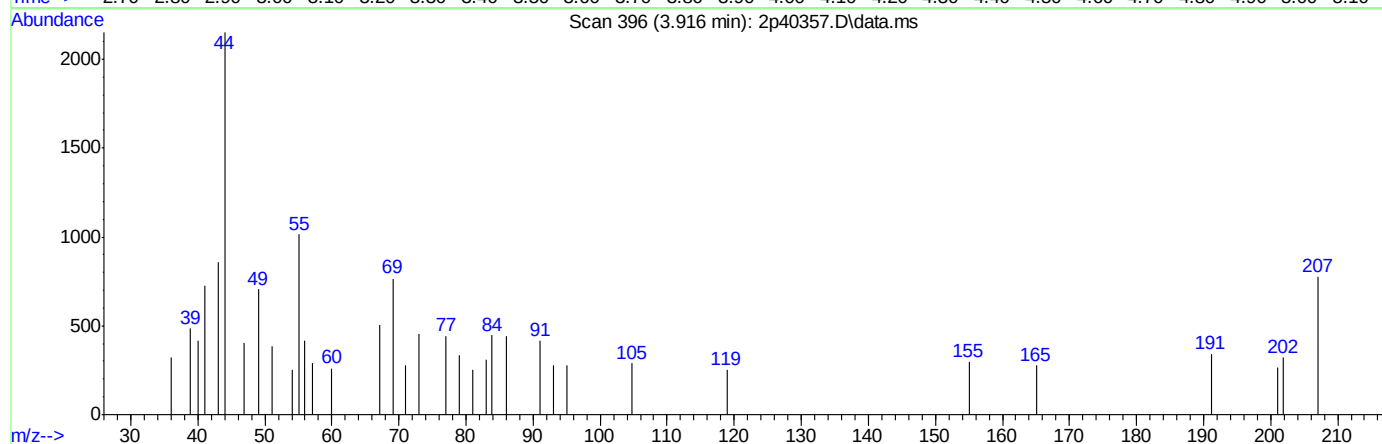
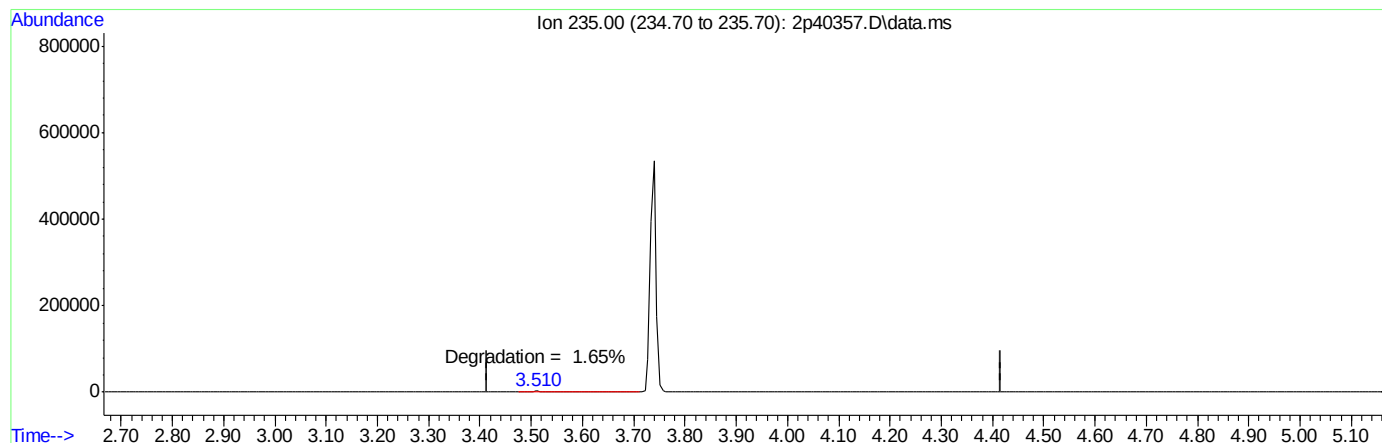
response 0

Ion	Exp%	Act%
184.10	100	0.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2P1692\
Data File : 2p40357.D
Acq On : 5 Sep 2014 4:26 pm
Operator : harpreek
Sample : dftpp
Misc : op77543,e2p1692,1000,,,1,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 05 20:12:52 2014
Quant Method : C:\msdchem\1\METHODS\dftpp2p.M
Quant Title :
QLast Update : Thu May 29 09:05:38 2014
Response via : Initial Calibration



TIC: 2p40357.D\data.ms

(3) PP-DDT

3.916min (-3.916) 0.00ppb

response 0

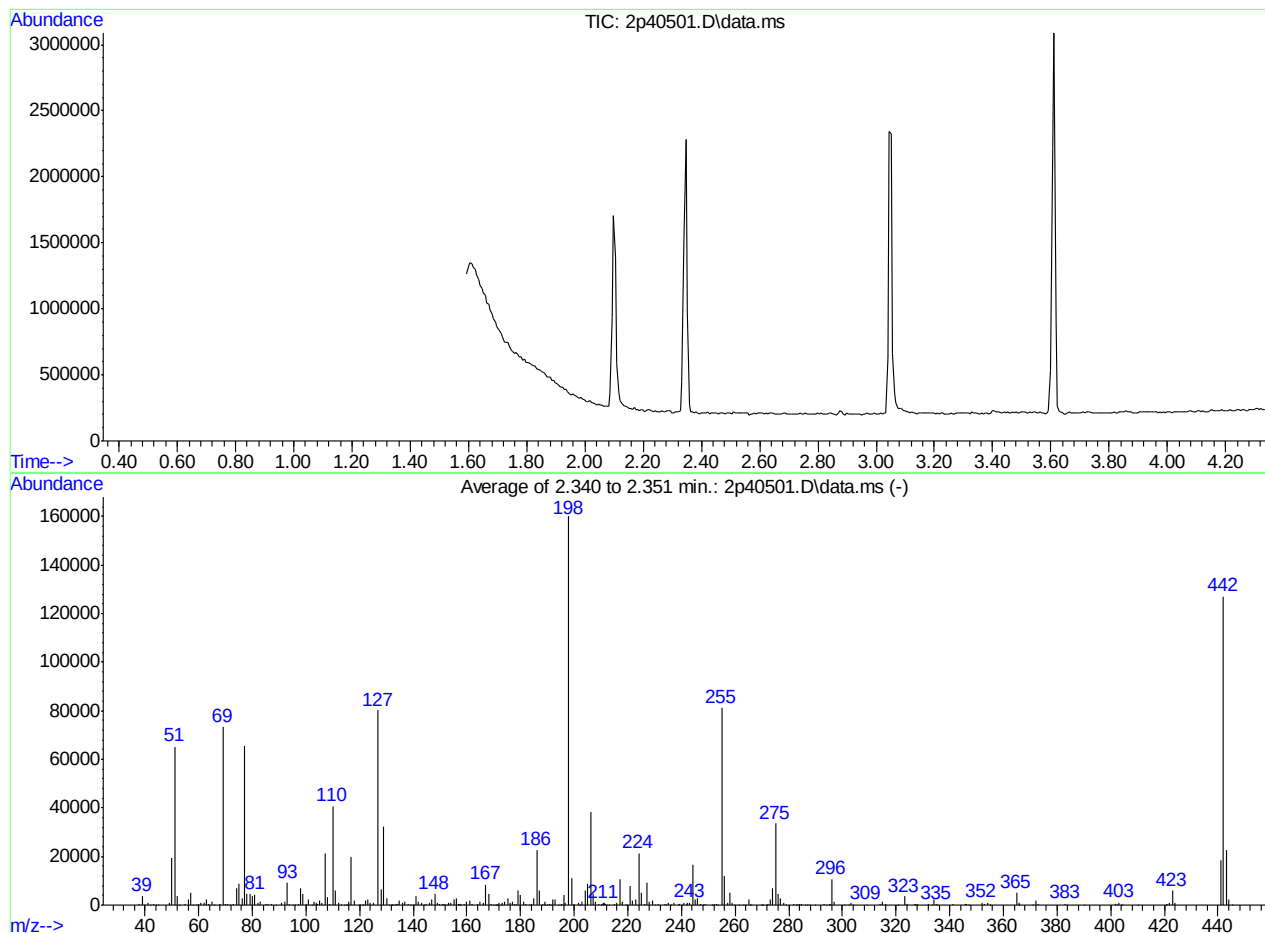
Ion	Exp%	Act%
235.00	100	0.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

DFTPP

Data File : C:\msdchem\1\DATA\2P1697\2p40501.D
 Acq On : 9 Sep 2014 7:49 am
 Sample : dftpp
 Misc : op77543,e2p1697
 MS Integration Params: events.e

Vial: 1
 Operator: samtap
 Inst : MS2P
 Multiplr: 1.00

Method : C:\MSDCHEM\1\METHODS\DFTPP2P.M (ChemStation Integrator)
 Title :



AutoFind: Scans 128, 129, 130; Background Corrected with Scan 125

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	40.7	65072	PASS
68	69	0.00	2	0.7	542	PASS
69	198	0.00	100	45.8	73195	PASS
70	69	0.00	2	0.5	358	PASS
127	198	40	60	50.2	80291	PASS
197	198	0.00	1	0.5	798	PASS
198	198	100	100	100.0	159987	PASS
199	198	5	9	7.0	11220	PASS
275	198	10	30	20.9	33504	PASS
365	198	1	100	3.1	4946	PASS
441	443	0.01	100	81.6	18524	PASS
442	198	40	100	79.4	126979	PASS
443	442	17	23	17.9	22692	PASS

Average of 2.340 to 2.351 min.: 2p40501.D\data.ms

dftpp

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
38.00	494	52.05	3530	63.90	464	76.15	2784
39.00	3908	53.05	46	65.00	1291	77.05	65335
39.90	216	55.05	681	66.00	192	78.05	4778
41.05	798	56.05	2282	68.00	542	79.00	4465
42.00	153	57.00	4968	69.00	73195	80.00	3484
43.05	306	57.90	237	70.00	358	81.00	4173
44.00	125	59.10	122	70.95	309	82.00	1116
45.00	25	60.00	266	71.80	135	83.00	1207
49.00	1019	61.00	923	73.00	344	85.00	548
50.00	19370	62.00	831	74.10	6759	86.00	597
51.00	65072	63.00	2394	75.00	8909	87.00	444

Average of 2.340 to 2.351 min.: 2p40501.D\data.ms

dftpp

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
89.00	199	101.00	2393	111.00	6110	120.90	121
91.00	712	102.00	110	112.05	814	121.20	119
92.05	1419	103.00	1305	113.10	186	122.05	1634
93.00	9162	103.90	761	114.10	97	123.00	2098
94.00	598	104.10	528	115.00	52	124.00	1095
94.95	85	104.95	1664	115.20	97	125.00	1153
96.00	66	106.10	1043	116.05	1241	127.00	80291
97.05	315	107.00	21412	117.00	19851	128.05	6573
97.95	6937	108.05	3210	118.00	1703	129.00	32120
99.00	4620	109.05	506	119.90	156	130.00	2626
100.05	395	110.00	40630	120.20	96	131.05	77

Average of 2.340 to 2.351 min.: 2p40501.D\data.ms

dftpp

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
131.75	235	139.90	210	150.00	289	157.10	611
132.10	117	140.20	186	150.60	110	157.40	177
132.30	206	141.00	3776	151.15	535	157.95	683
133.10	94	142.05	1205	151.40	348	159.05	520
133.90	555	143.05	887	151.90	226	159.95	1326
134.10	251	144.10	101	152.80	213	161.10	1941
134.95	2017	144.90	436	153.05	1059	162.00	621
136.00	926	146.00	762	153.95	720	164.00	314
137.05	1421	147.05	2122	155.05	2425	165.00	1428
138.15	264	148.00	4555	156.00	2999	165.95	1150
138.95	234	149.05	714	156.90	128	167.00	8339

Average of 2.340 to 2.351 min.: 2p40501.D\data.ms

dftpp

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
168.05	4835	176.00	896	186.10	22739	194.80	169
168.90	483	177.10	1332	187.10	5861	195.20	564
169.90	51	177.90	444	188.05	685	196.05	4363
170.70	133	178.10	242	188.95	1226	196.80	798
171.00	133	179.00	6073	189.20	209	198.00	159987
171.30	117	180.05	4052	189.90	235	199.00	11220
171.90	905	180.95	1453	190.90	402	199.95	549
172.70	122	182.00	323	191.20	124	201.50	801
173.10	837	183.10	54	192.05	2115	201.70	250
174.00	1584	184.05	474	193.05	2186	202.10	166
175.10	2797	185.05	2696	194.00	66	202.95	1181

Average of 2.340 to 2.351 min.: 2p40501.D\data.ms

dftpp

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
204.10	6141	212.05	228	224.10	21260	235.90	222
205.10	8888	213.10	109	225.05	5033	236.10	87
206.10	38211	215.00	655	226.15	540	237.05	793
207.05	4796	216.00	1007	227.00	9094	238.80	128

208.10	1449	217.00	10589	228.00	1404	239.15	396
208.95	384	218.05	1579	229.00	1950	240.20	206
209.90	166	219.10	85	229.85	235	241.00	779
210.30	348	219.80	87	231.10	659	241.60	212
211.00	733	221.05	7991	234.00	468	242.10	954
211.20	908	221.80	1897	234.20	172	243.05	1112
211.60	357	222.95	2335	235.05	881	244.10	16820

Average of 2.340 to 2.351 min.: 2p40501.D\data.ms
dftpp

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
245.05	2217	256.00	11795	269.80	142	278.90	91
246.00	2911	257.05	1006	270.10	127	282.05	330
246.80	201	258.05	5320	270.30	95	282.90	155
247.10	605	259.00	760	271.75	227	283.20	179
248.20	244	259.90	92	272.05	326	283.90	338
249.05	686	261.20	88	273.05	2520	284.10	93
251.20	85	263.00	106	274.05	6866	284.85	672
252.20	303	263.70	210	275.05	33504	286.20	180
252.95	310	265.00	2113	276.05	4487	286.90	92
253.60	98	265.70	85	277.05	2851	287.60	91
255.00	81136	265.95	213	277.95	716	289.90	220

Average of 2.340 to 2.351 min.: 2p40501.D\data.ms
dftpp

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
292.95	703	313.95	616	333.10	237	354.90	106
294.00	246	314.95	1387	334.05	2405	355.10	126
295.05	460	316.10	707	335.00	352	365.00	4946
295.30	142	320.90	195	335.30	182	365.80	134
296.00	10678	323.05	3529	341.00	388	365.95	850
297.00	1619	324.10	463	345.90	688	371.00	225
300.80	120	326.80	160	346.20	262	372.10	1793
302.30	97	327.05	516	347.00	98	373.00	296
303.00	1085	327.80	123	352.00	1135	383.05	484
304.00	183	328.00	512	353.00	536	383.85	224
309.00	138	332.00	267	354.05	994	390.05	215

Average of 2.340 to 2.351 min.: 2p40501.D\data.ms
dftpp

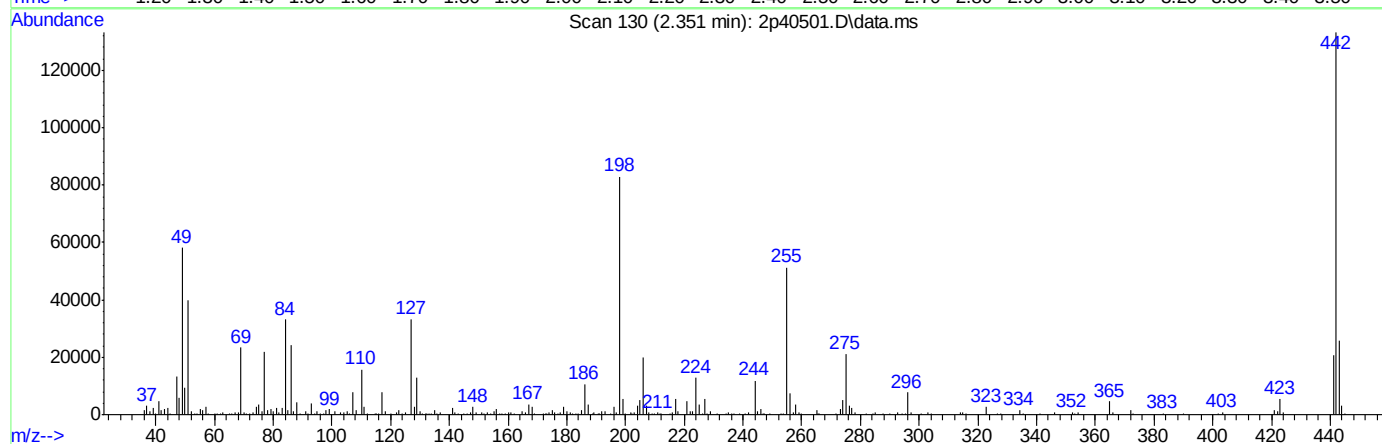
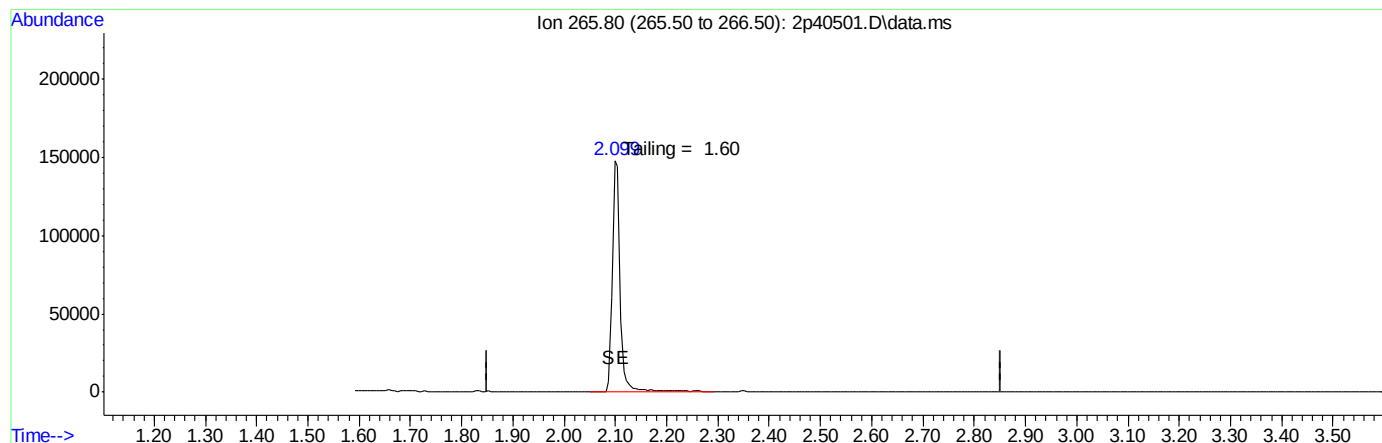
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
401.85	540	441.05	18524				
402.10	228	442.10	126979				
403.10	1066	443.10	22692				
403.90	113	444.05	2304				
404.30	123	445.10	217				
410.20	93						
420.80	245						
421.00	477						
422.05	961						
423.00	5845						
424.00	1138						

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2P1697\
Data File : 2p40501.D
Acq On : 9 Sep 2014 7:49 am
Operator : samtap
Sample : dftpp
Misc : op77543,e2p1697
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 09 07:53:24 2014
Quant Method : C:\MSDCHEM\1\METHODS\DFTPP2P.M
Quant Title :
QLast Update : Thu May 29 09:05:38 2014
Response via : Initial Calibration



TIC: 2p40501.D\data.ms

(1) Pentachlorophenol

2.352min (-2.352) 0.00ppb

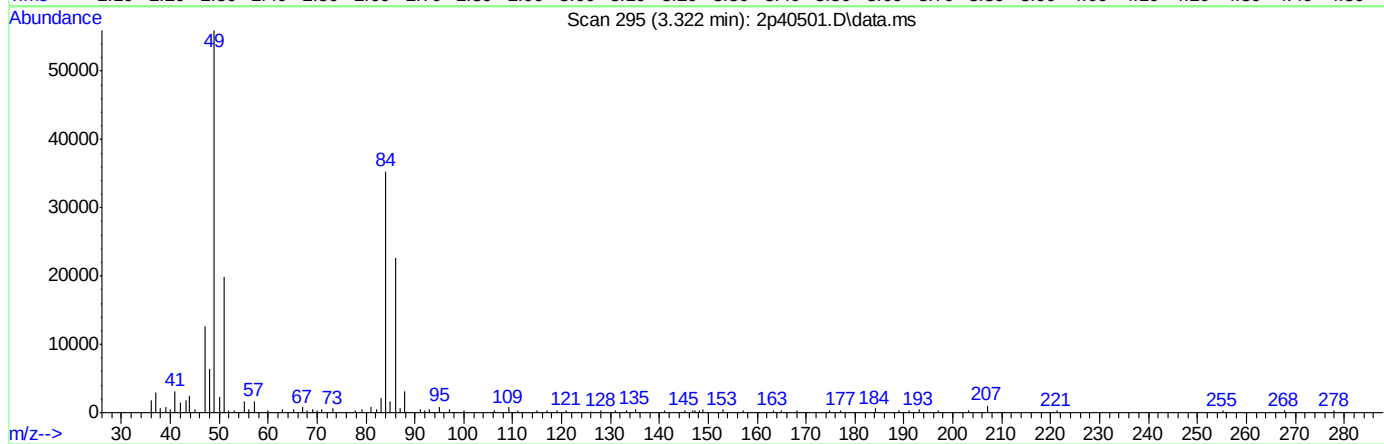
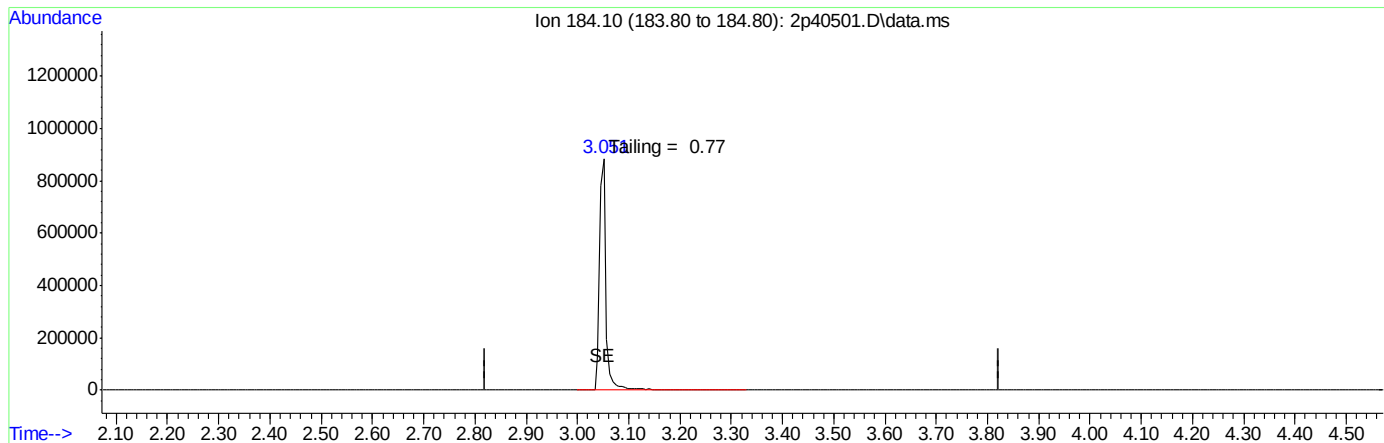
response 0

Ion	Exp%	Act%
265.80	100	0.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2P1697\
Data File : 2p40501.D
Acq On : 9 Sep 2014 7:49 am
Operator : samtap
Sample : dftpp
Misc : op77543,e2p1697
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 09 07:53:24 2014
Quant Method : C:\MSDCHEM\1\METHODS\DFTPP2P.M
Quant Title :
QLast Update : Thu May 29 09:05:38 2014
Response via : Initial Calibration



TIC: 2p40501.D\data.ms

(2) Benzidine

3.322min (-3.322) 0.00ppb

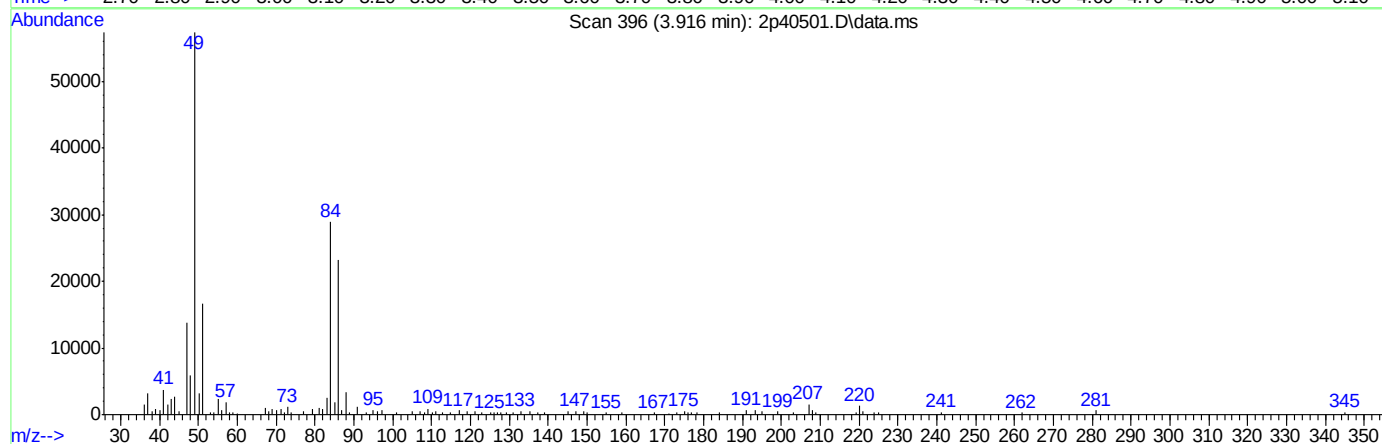
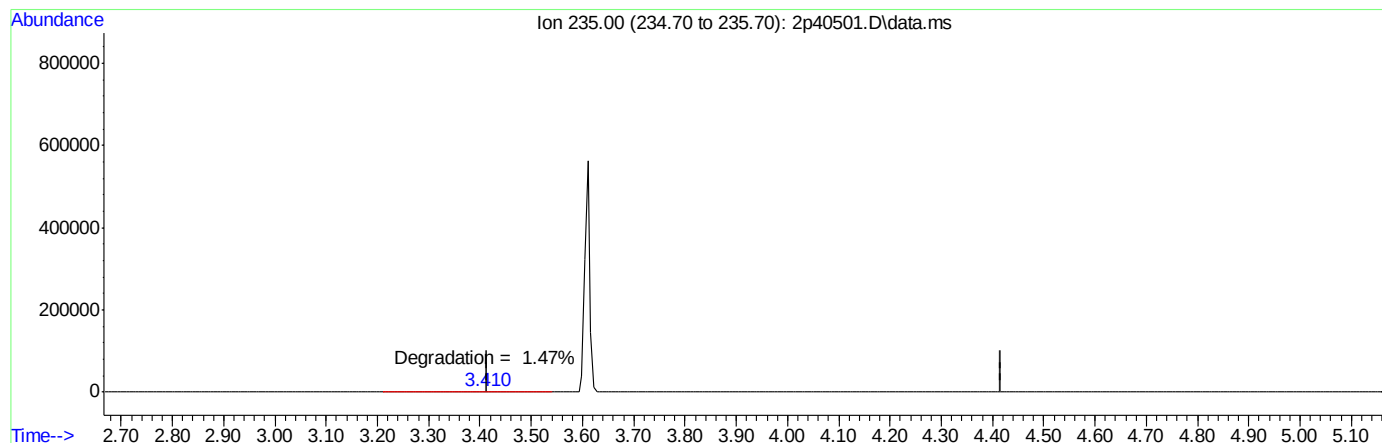
response 0

Ion	Exp%	Act%
184.10	100	0.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2P1697\
Data File : 2p40501.D
Acq On : 9 Sep 2014 7:49 am
Operator : samtap
Sample : dftpp
Misc : op77543,e2p1697
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 09 07:53:24 2014
Quant Method : C:\MSDCHEM\1\METHODS\DFTPP2P.M
Quant Title :
QLast Update : Thu May 29 09:05:38 2014
Response via : Initial Calibration



TIC: 2p40501.D\data.ms

(3) PP-DDT

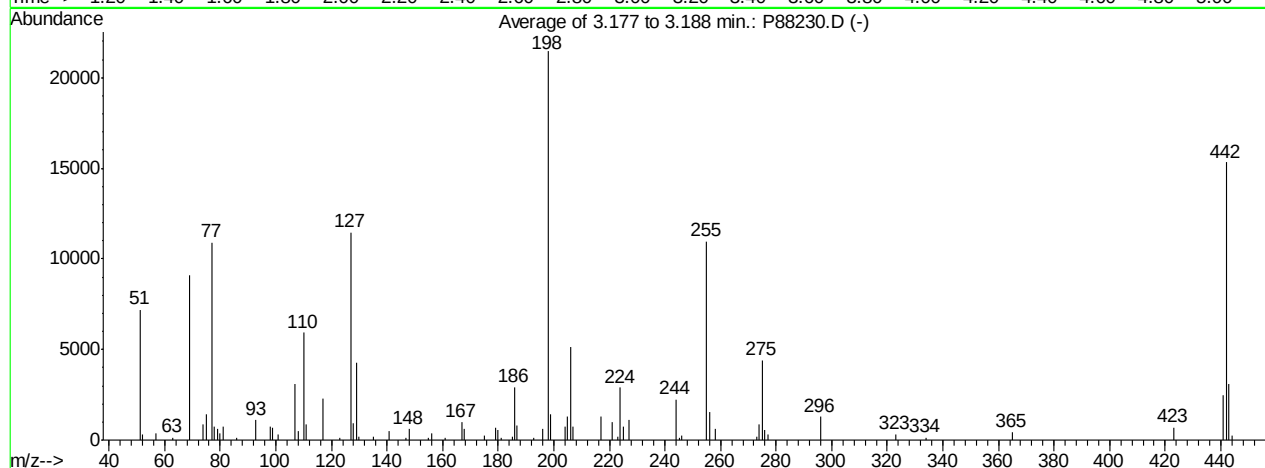
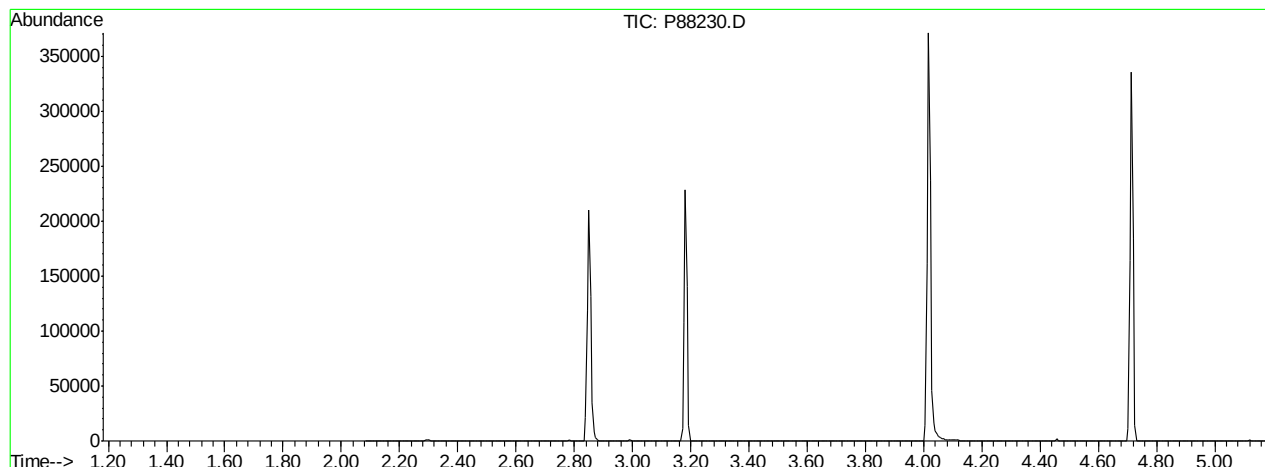
3.916min (-3.916) 0.00ppb

response 0

Ion	Exp%	Act%
235.00	100	0.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

DFTPP

Data File : C:\MSDCHEM\1\DATA\EP3770\P88230.D Vial: 1
 Acq On : 22 Aug 2014 6:23 pm Operator: kristis
 Sample : dftpp Inst : MSP
 Misc : op76634,ep3770,1000,,,1,1 Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Method : C:\MSDCHEM\1\METHODS\DFTPPP.M (RTE Integrator)
 Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um



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

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	33.5	7182	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	42.4	9091	PASS
70	69	0.00	2	0.0	0	PASS
127	198	40	60	53.5	11476	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	21449	PASS
199	198	5	9	6.6	1423	PASS
275	198	10	30	20.5	4404	PASS
365	198	1	100	2.2	465	PASS
441	443	0.10	100	80.5	2502	PASS
442	198	40	100	71.5	15343	PASS
443	442	17	23	20.3	3109	PASS

Average of 3.177 to 3.188 min.: P88230.D

dftpp

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
51.00	7182	80.90	718	122.90	132	160.90	120
52.00	303	85.90	124	126.90	11476	166.90	1011
56.90	394	92.90	1088	128.00	923	167.90	616
62.90	143	97.95	749	128.90	4252	174.90	224
68.90	9091	98.90	688	129.90	168	178.90	693
73.95	855	100.90	291	134.90	159	179.90	569
74.95	1412	106.95	3089	140.90	511	180.90	139
77.00	10893	107.95	490	146.90	132	185.00	176
78.00	762	109.90	5930	147.90	611	185.90	2920
78.90	600	110.95	875	154.90	144	186.90	786
79.90	382	116.90	2287	155.90	361	192.90	139

Average of 3.177 to 3.188 min.: P88230.D

dftpp

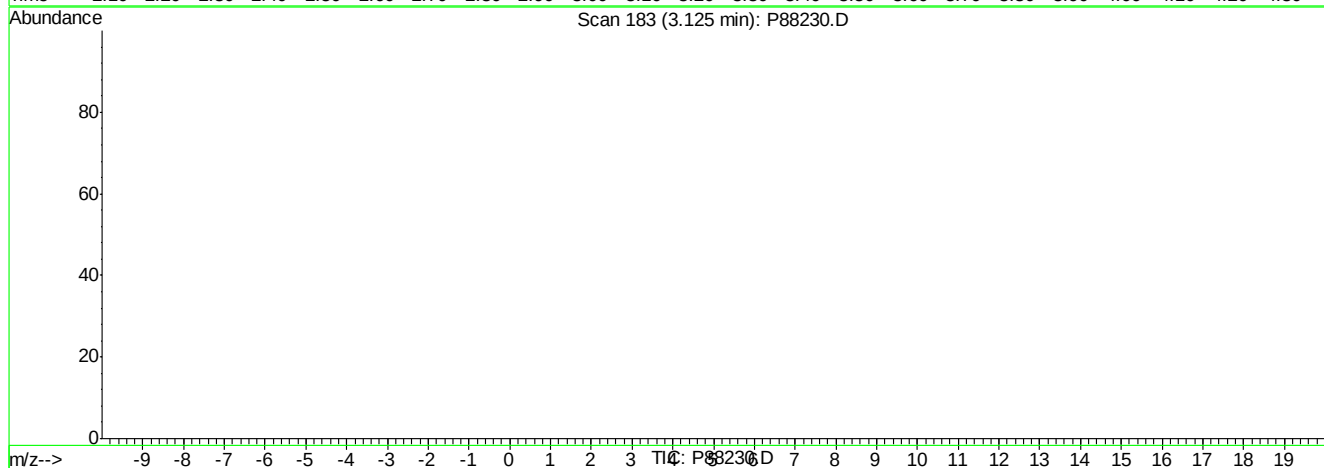
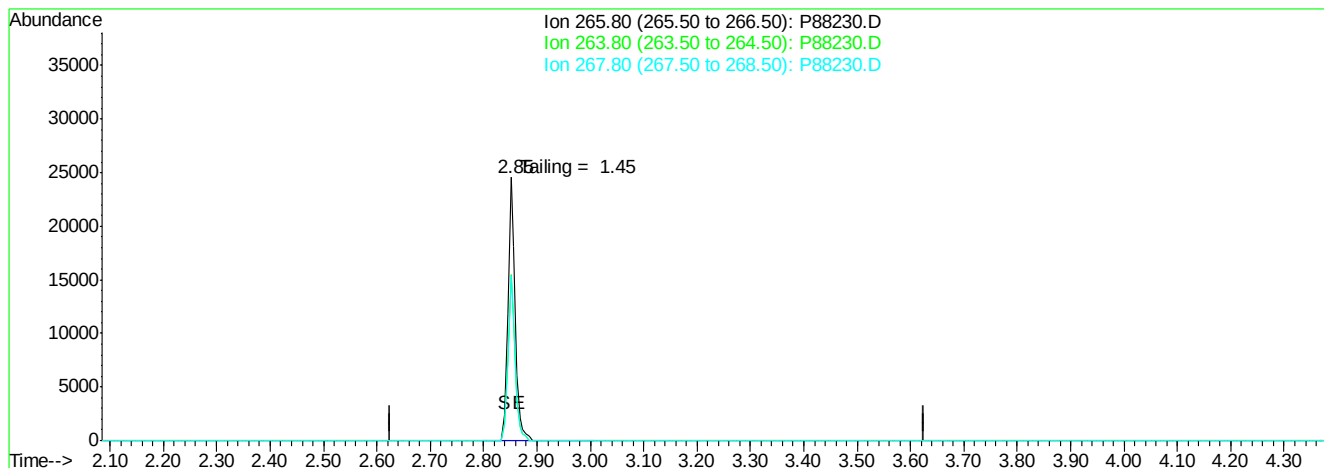
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
195.90	610	224.90	715	275.90	529		
197.90	21449	226.90	1130	276.90	308		
198.85	1423	243.90	2243	295.90	1286		
203.90	725	245.00	133	322.90	337		
204.95	1310	245.90	278	333.90	125		
205.95	5149	254.90	10969	364.90	465		
206.90	714	255.90	1575	422.90	696		
216.90	1287	257.90	605	441.00	2502		
220.90	991	272.90	175	441.90	15343		
223.00	164	273.90	842	442.90	3109		
223.95	2887	274.90	4404	443.90	276		

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EP3770\P88230.D Vial: 1
Acq On : 22 Aug 2014 6:23 pm Operator: kristis
Sample : dftpp Inst : MSP
Misc : op76634,ep3770,1000,,,1,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 22 18:29 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\DFTPPP.M (RTE Integrator)
Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
Last Update : Wed Jul 30 09:32:58 2014
Response via : Single Level Calibration



(1) Pentachlorophenol (t)

3.13min 0.00ppb

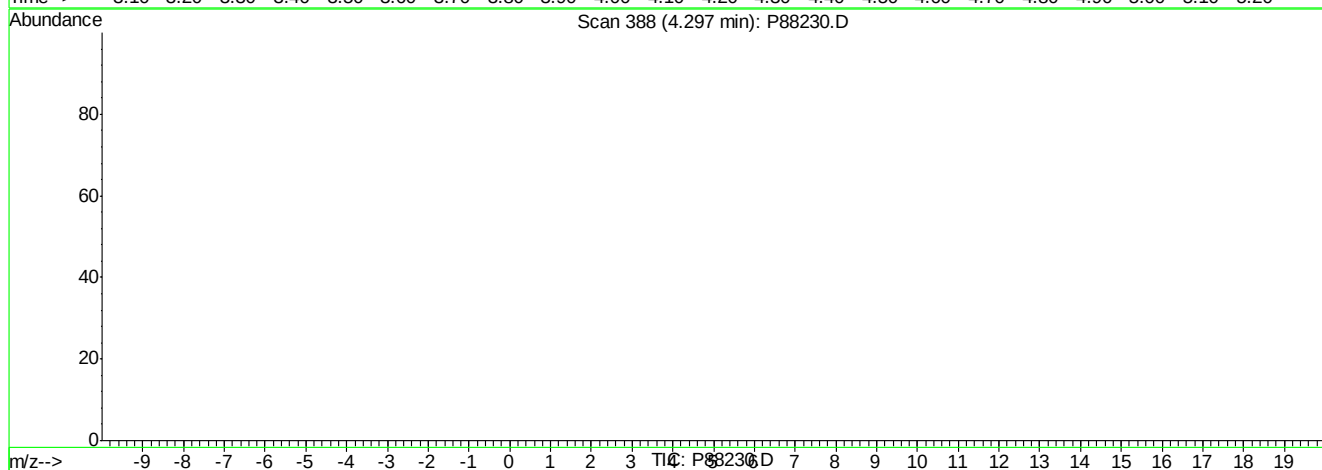
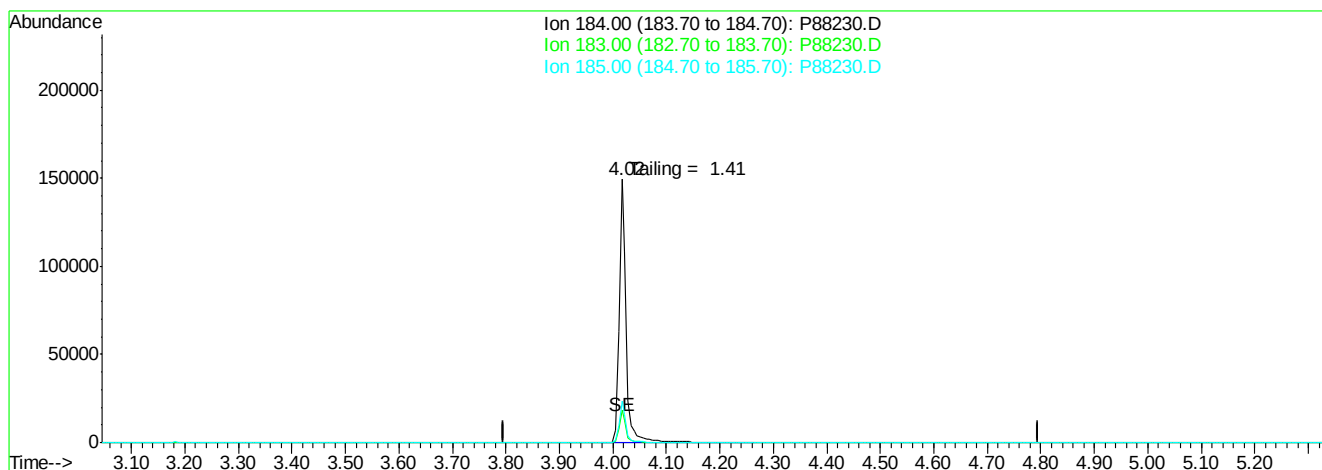
response 0

Ion	Exp%	Act%
265.80	100	0.00
263.80	63.10	0.00#
267.80	63.20	0.00#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EP3770\P88230.D Vial: 1
 Acq On : 22 Aug 2014 6:23 pm Operator: kristis
 Sample : dftpp Inst : MSP
 Misc : op76634,ep3770,1000,,,1,1 Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Quant Time: Aug 22 18:29 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\DFTPPP.M (RTE Integrator)
 Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
 Last Update : Wed Jul 30 09:32:58 2014
 Response via : Single Level Calibration



(2) Benzidine (t)

4.30min 0.00ppb

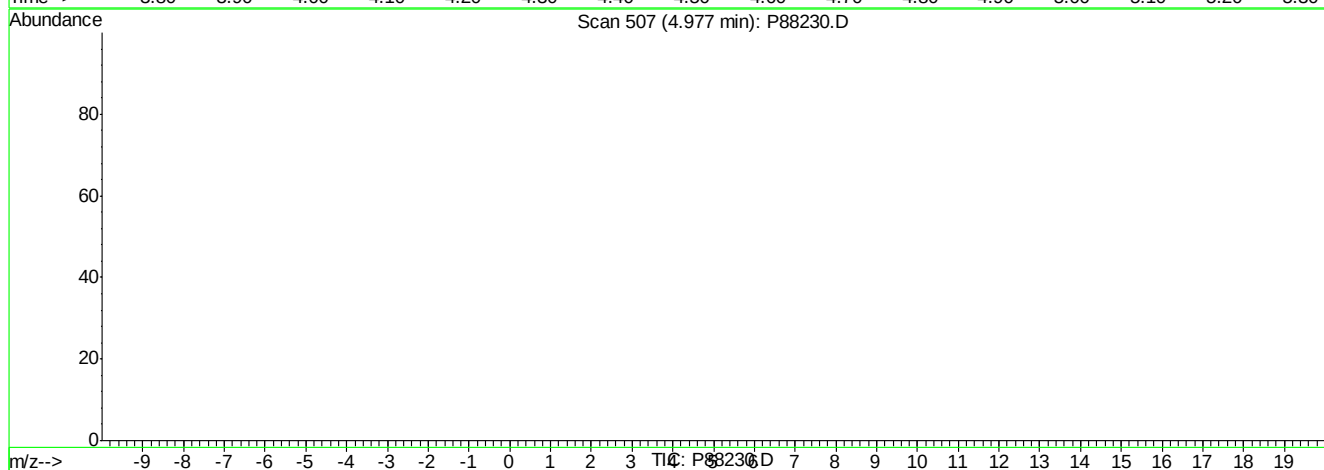
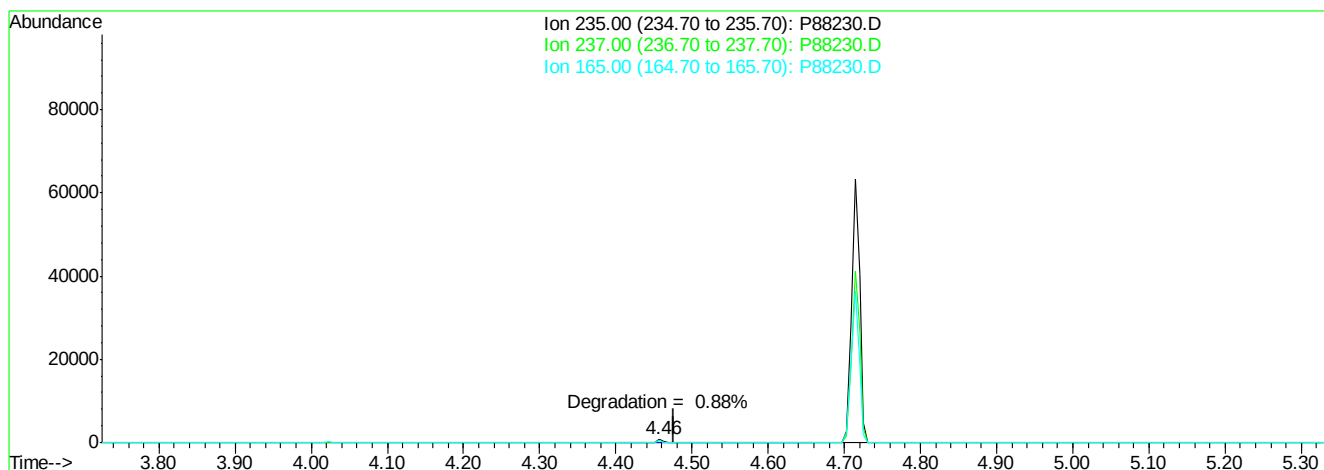
response 0

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

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EP3770\P88230.D Vial: 1
Acq On : 22 Aug 2014 6:23 pm Operator: kristis
Sample : dftpp Inst : MSP
Misc : op76634,ep3770,1000,,,1,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 22 18:29 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\DFTPPP.M (RTE Integrator)
Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
Last Update : Wed Jul 30 09:32:58 2014
Response via : Single Level Calibration



(3) ddt

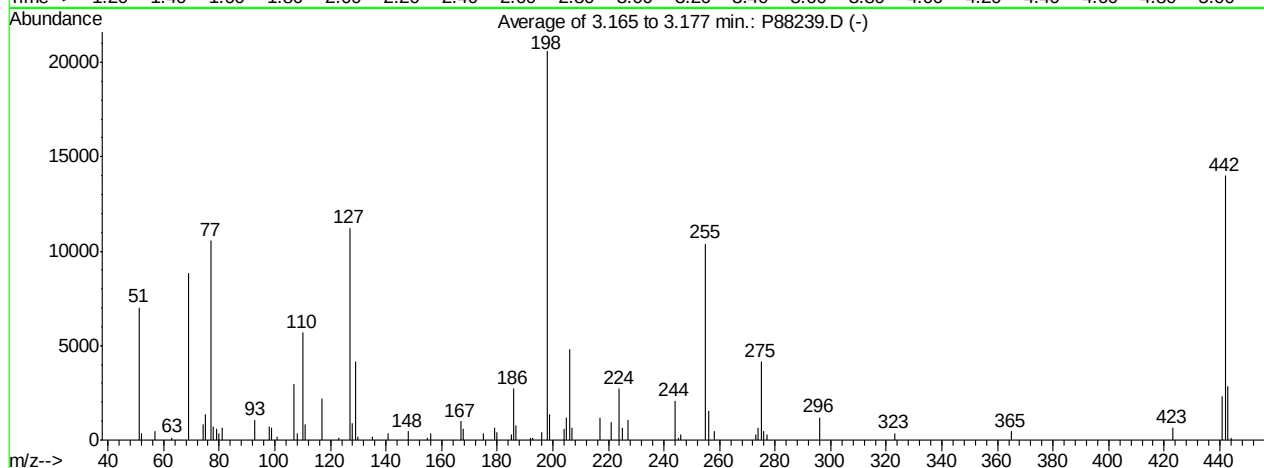
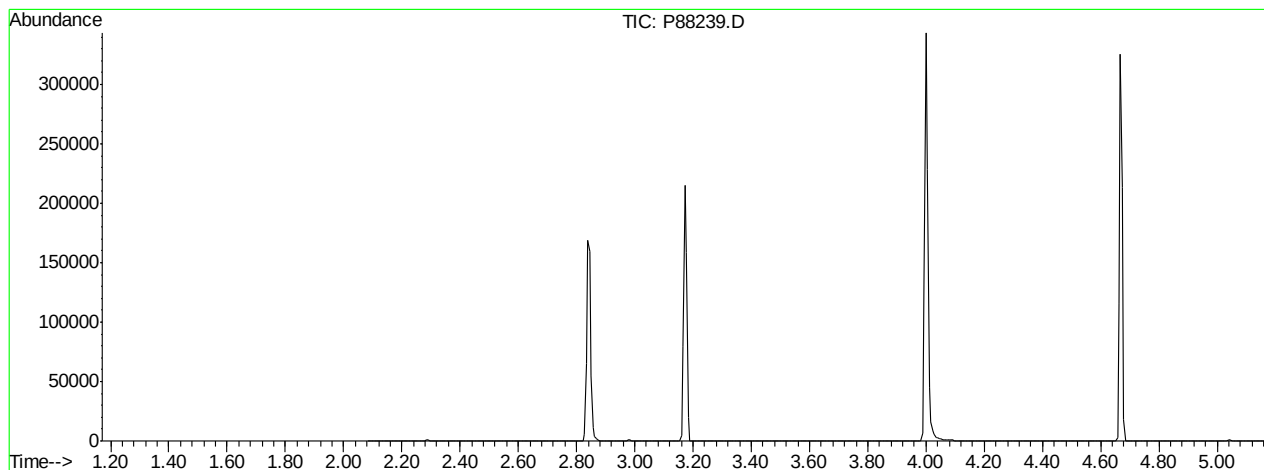
4.98min 0.00ppb

response 0

Ion	Exp%	Act%
235.00	100	0.00
237.00	65.40	0.00#
165.00	55.50	0.00#
0.00	0.00	0.00

DFTPP

Data File : C:\MSDCHEM\1\DATA\EP3770\P88239.D Vial: 1
 Acq On : 22 Aug 2014 10:26 pm Operator: kristis
 Sample : dftpp Inst : MSP
 Misc : op76634,ep3771,1000,,,1,1 Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Method : C:\MSDCHEM\1\METHODS\DFTPPP.M (RTE Integrator)
 Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um



AutoFind: Scans 190, 191, 192; Background Corrected with Scan 186

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	34.1	7025	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	43.0	8848	PASS
70	69	0.00	2	0.0	0	PASS
127	198	40	60	54.5	11223	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	20578	PASS
199	198	5	9	6.7	1375	PASS
275	198	10	30	20.2	4150	PASS
365	198	1	100	2.2	457	PASS
441	443	0.10	100	81.8	2319	PASS
442	198	40	100	68.0	13988	PASS
443	442	17	23	20.3	2834	PASS

P88239.D DFTPPP.M Sat Aug 23 13:55:43 2014

Average of 3.165 to 3.177 min.: P88239.D

dftpp

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
51.00	7025	80.90	665	126.95	11223	174.95	341
52.00	335	92.90	1048	128.00	891	178.90	663
56.95	504	97.95	737	128.90	4128	179.90	432
63.00	148	98.90	654	129.90	196	184.95	286
68.90	8848	100.90	178	134.90	173	185.90	2715
74.00	854	106.95	2995	140.90	358	186.90	785
74.95	1378	107.90	349	147.90	453	191.90	135
77.00	10549	109.90	5694	154.90	131	192.90	125
78.00	710	110.90	855	155.90	343	195.90	438
78.95	589	116.90	2224	166.95	983	197.90	20578
79.90	375	122.90	136	167.90	602	198.85	1375

Average of 3.165 to 3.177 min.: P88239.D

dftpp

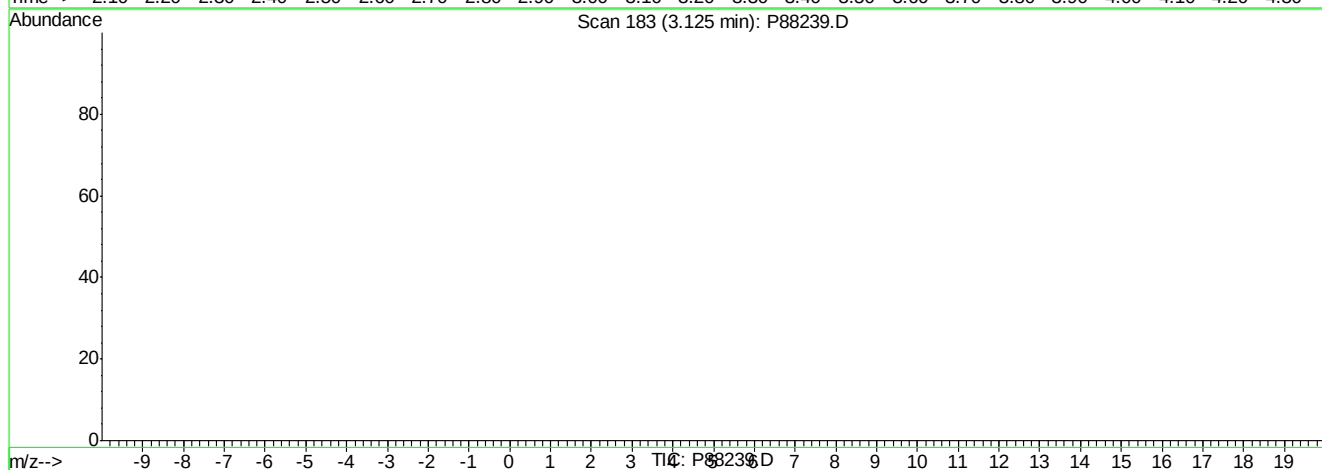
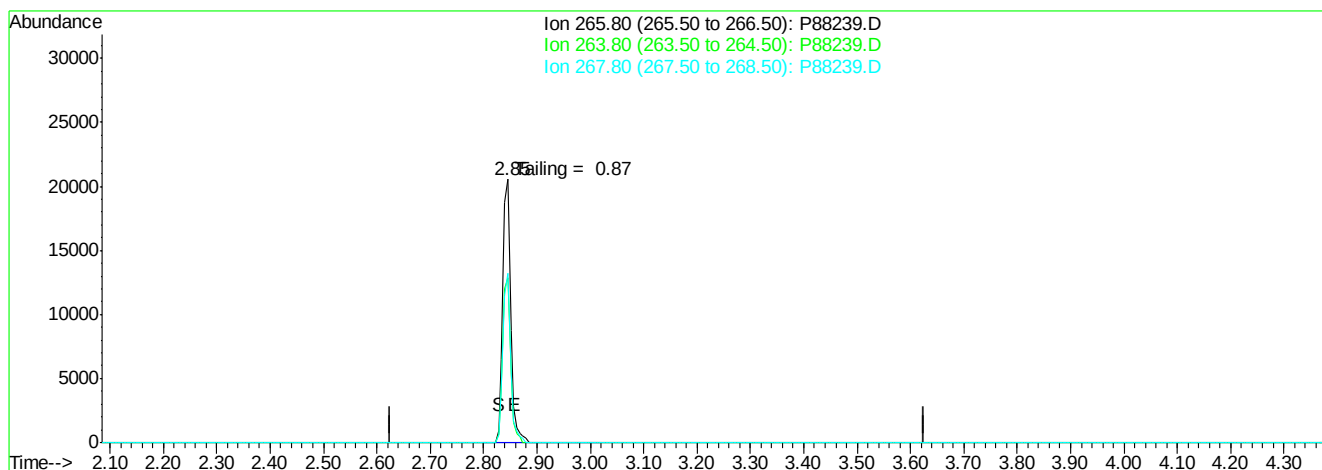
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
203.90	616	245.90	312	364.85	457		
204.95	1204	254.90	10408	422.90	630		
205.95	4796	255.90	1552	440.95	2319		
206.95	666	257.90	477	441.90	13988		
216.90	1209	272.90	308	442.90	2834		
220.90	940	273.90	681	443.90	135		
223.90	2730	274.90	4150				
224.90	681	275.90	497				
226.90	1050	276.90	321				
243.90	2051	295.90	1218				
245.00	149	323.00	365				

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EP3770\P88239.D Vial: 1
Acq On : 22 Aug 2014 10:26 pm Operator: kristis
Sample : dftpp Inst : MSP
Misc : op76634,ep3771,1000,,,1,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 22 22:31 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\DFTPPP.M (RTE Integrator)
Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
Last Update : Wed Jul 30 09:32:58 2014
Response via : Single Level Calibration



(1) Pentachlorophenol (t)

3.13min 0.00ppb

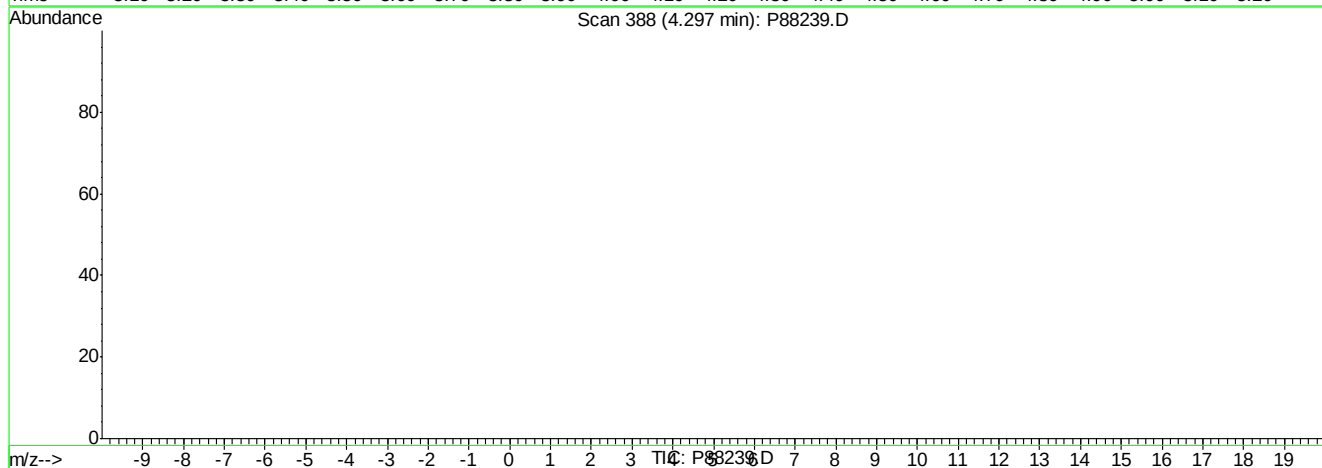
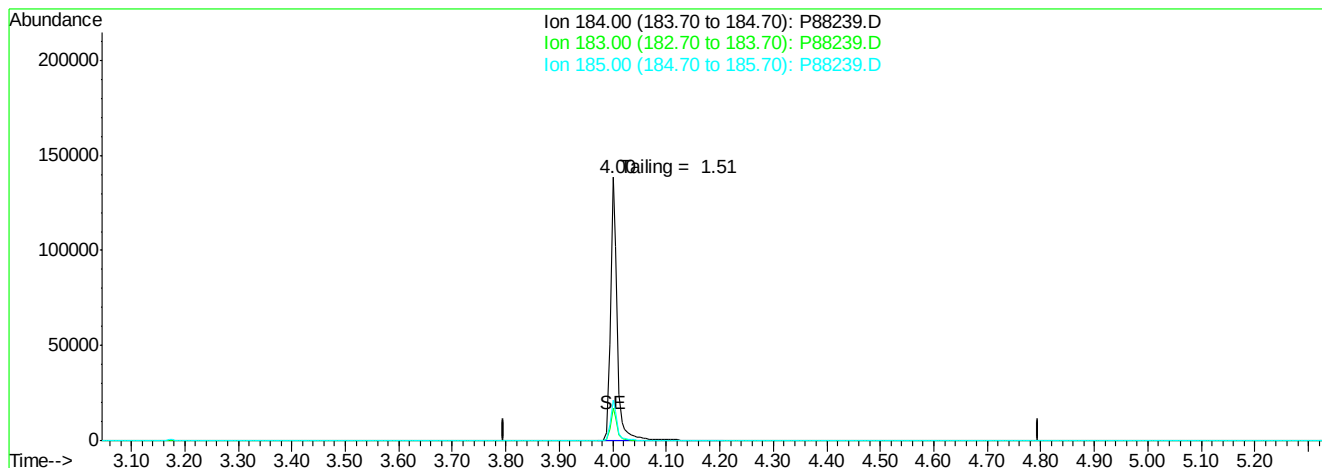
response 0

Ion	Exp%	Act%
265.80	100	0.00
263.80	63.10	0.00#
267.80	63.20	0.00#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EP3770\P88239.D Vial: 1
 Acq On : 22 Aug 2014 10:26 pm Operator: kristis
 Sample : dftpp Inst : MSP
 Misc : op76634,ep3771,1000,,,1,1 Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Quant Time: Aug 22 22:31 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\DFTPPP.M (RTE Integrator)
 Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
 Last Update : Wed Jul 30 09:32:58 2014
 Response via : Single Level Calibration



(2) Benzidine (t)

4.30min 0.00ppb

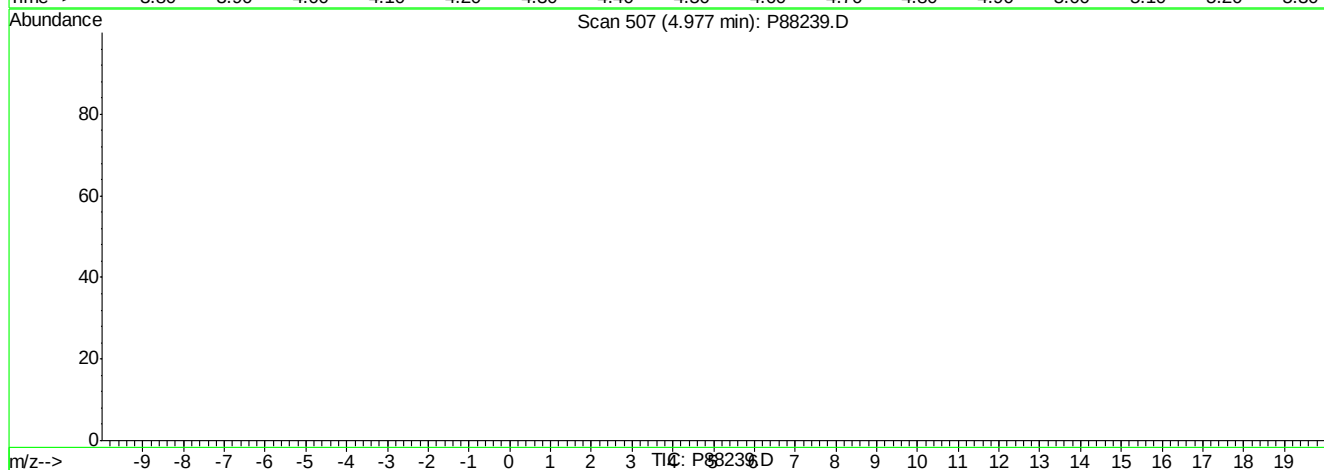
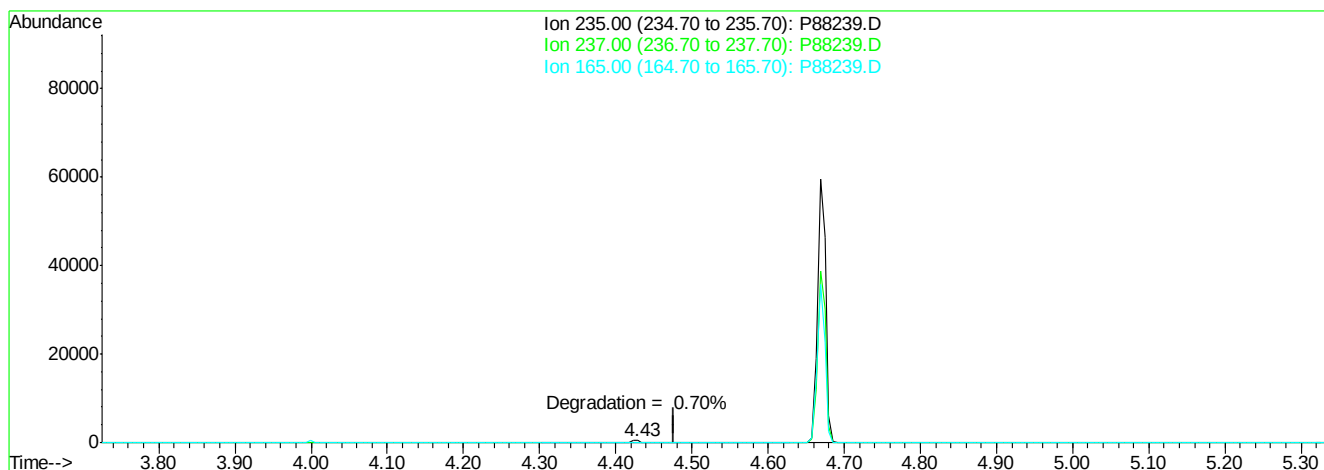
response 0

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

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EP3770\P88239.D Vial: 1
Acq On : 22 Aug 2014 10:26 pm Operator: kristis
Sample : dftpp Inst : MSP
Misc : op76634,ep3771,1000,,,1,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 22 22:31 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\DFTPPP.M (RTE Integrator)
Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
Last Update : Wed Jul 30 09:32:58 2014
Response via : Single Level Calibration



(3) ddt

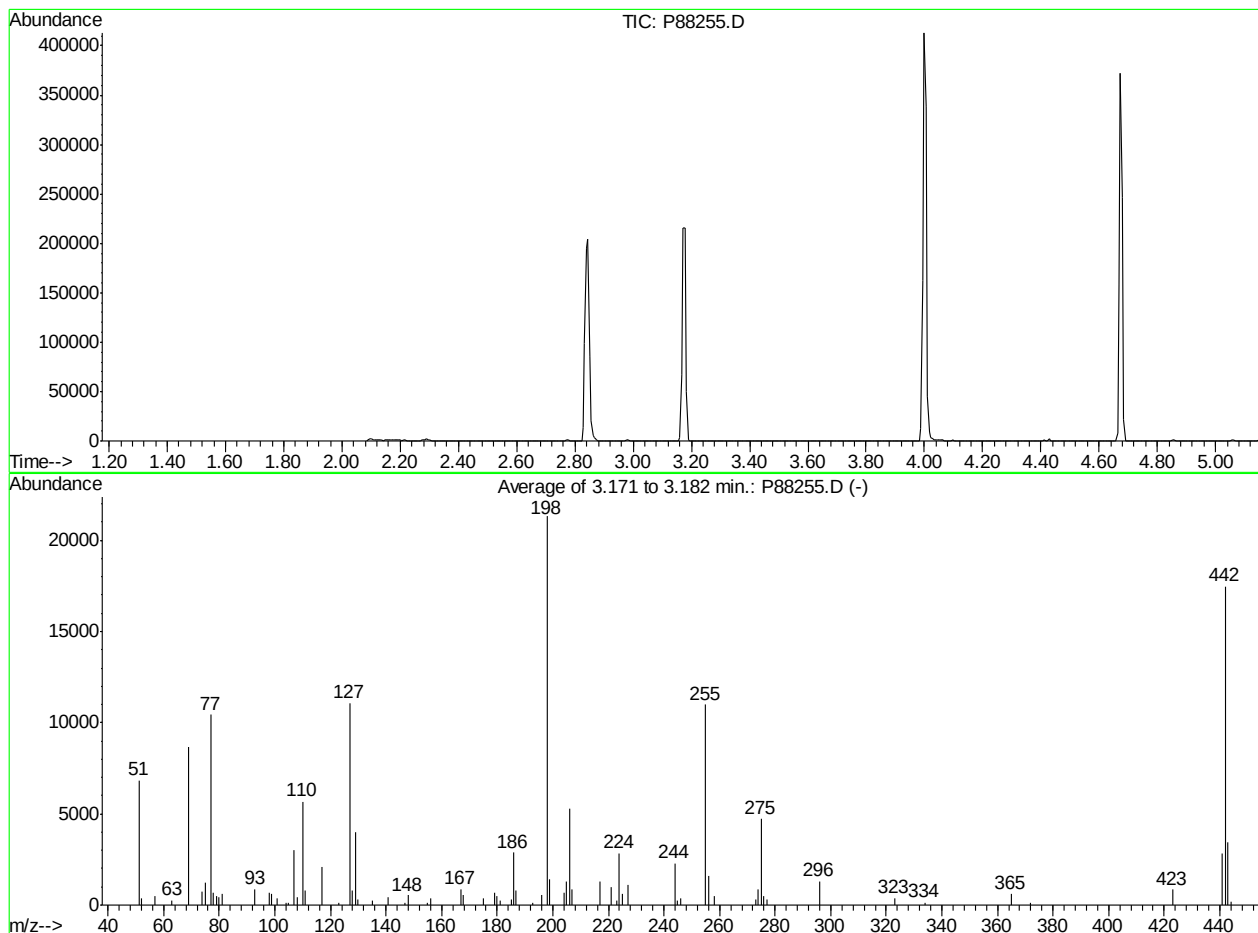
4.98min 0.00ppb

response 0

Ion	Exp%	Act%
235.00	100	0.00
237.00	65.40	0.00#
165.00	55.50	0.00#
0.00	0.00	0.00

DFTPP

Data File : C:\MSDCHEM\1\DATA\EP3772\P88255.D Vial: 1
 Acq On : 23 Aug 2014 8:40 am Operator: kristis
 Sample : dftpp Inst : MSP
 Misc : op76634,ep3772,1000,,,1,1 Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Method : C:\MSDCHEM\1\METHODS\DFTPPP.M (RTE Integrator)
 Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um



AutoFind: Scans 191, 192, 193; Background Corrected with Scan 186

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	32.0	6826	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	40.7	8665	PASS
70	69	0.00	2	0.0	0	PASS
127	198	40	60	52.1	11093	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	21309	PASS
199	198	5	9	6.8	1444	PASS
275	198	10	30	22.1	4715	PASS
365	198	1	100	2.8	587	PASS
441	443	0.10	100	82.5	2832	PASS
442	198	40	100	82.1	17488	PASS
443	442	17	23	19.6	3431	PASS

Average of 3.171 to 3.182 min.: P88255.D

dftpp

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
51.00	6826	80.90	607	116.90	2102	155.90	389
52.00	344	92.90	885	122.90	138	166.90	869
56.90	498	97.90	681	126.90	11093	167.90	530
62.95	274	98.90	609	127.95	824	174.90	396
68.90	8665	100.90	347	128.90	3995	178.90	682
73.95	744	103.90	124	129.90	329	179.90	484
74.95	1216	104.90	124	134.90	278	180.90	254
77.00	10440	106.90	3000	140.90	426	184.90	334
78.00	703	107.95	442	146.90	126	185.90	2869
78.90	524	109.90	5660	147.90	527	186.90	795
79.90	404	110.90	800	154.90	140	192.90	118

Average of 3.171 to 3.182 min.: P88255.D

dftpp

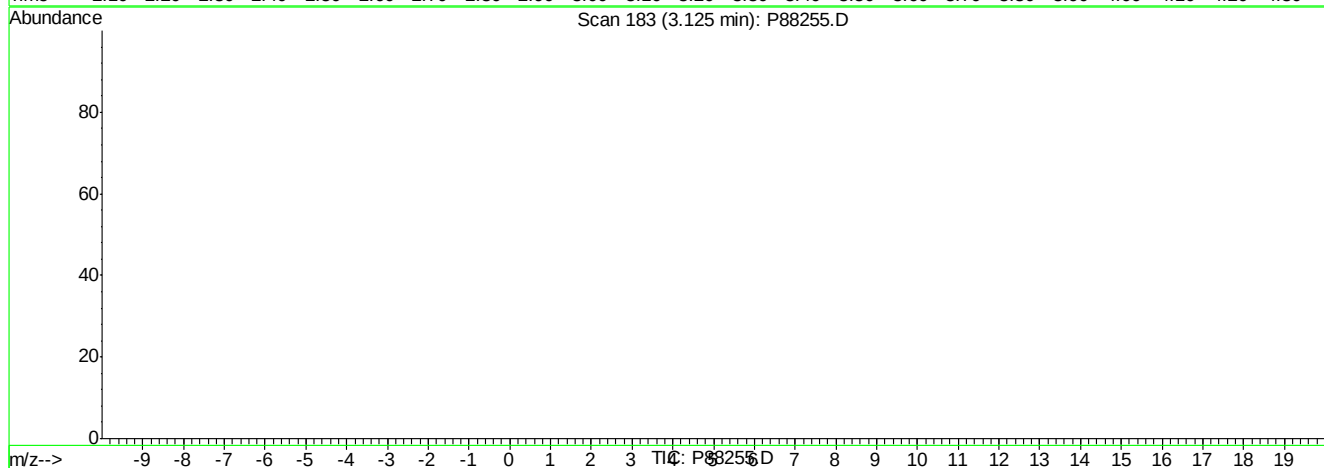
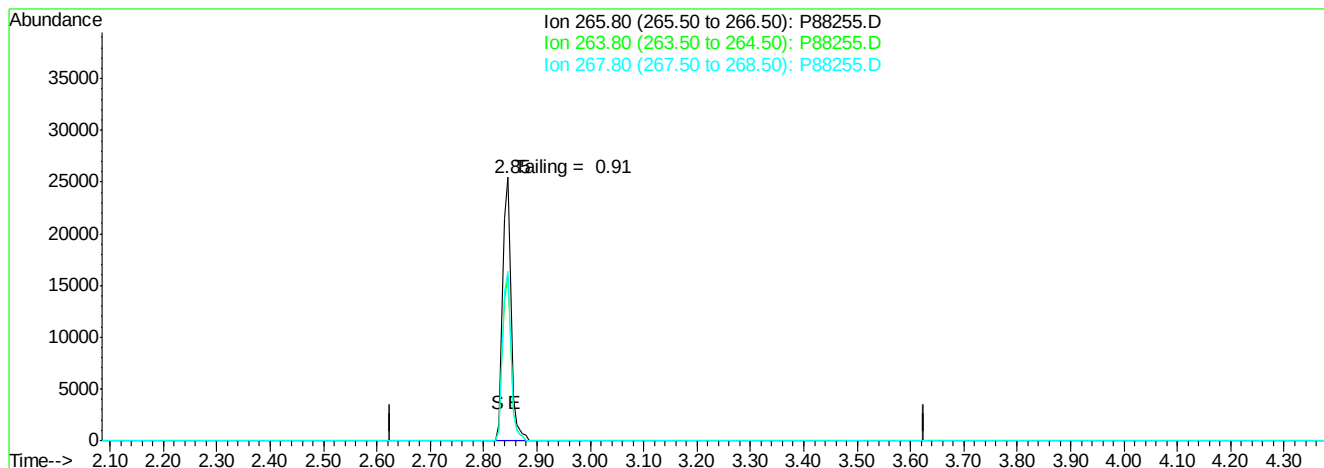
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
195.90	574	224.90	592	275.90	500	443.90	167
197.90	21309	226.90	1092	276.90	314		
198.90	1444	243.90	2293	295.90	1320		
203.90	674	244.90	274	322.90	380		
204.90	1284	245.90	350	333.90	134		
205.90	5270	254.90	10988	364.85	587		
206.90	837	255.90	1626	371.90	129		
216.90	1267	257.90	524	422.90	836		
220.90	965	272.90	298	440.95	2832		
222.90	273	273.90	886	441.90	17488		
223.95	2846	274.90	4715	442.90	3431		

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EP3772\P88255.D Vial: 1
Acq On : 23 Aug 2014 8:40 am Operator: kristis
Sample : dftpp Inst : MSP
Misc : op76634,ep3772,1000,,,1,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 23 8:45 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\DFTPPP.M (RTE Integrator)
Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
Last Update : Wed Jul 30 09:32:58 2014
Response via : Single Level Calibration



(1) Pentachlorophenol (t)

3.13min 0.00ppb

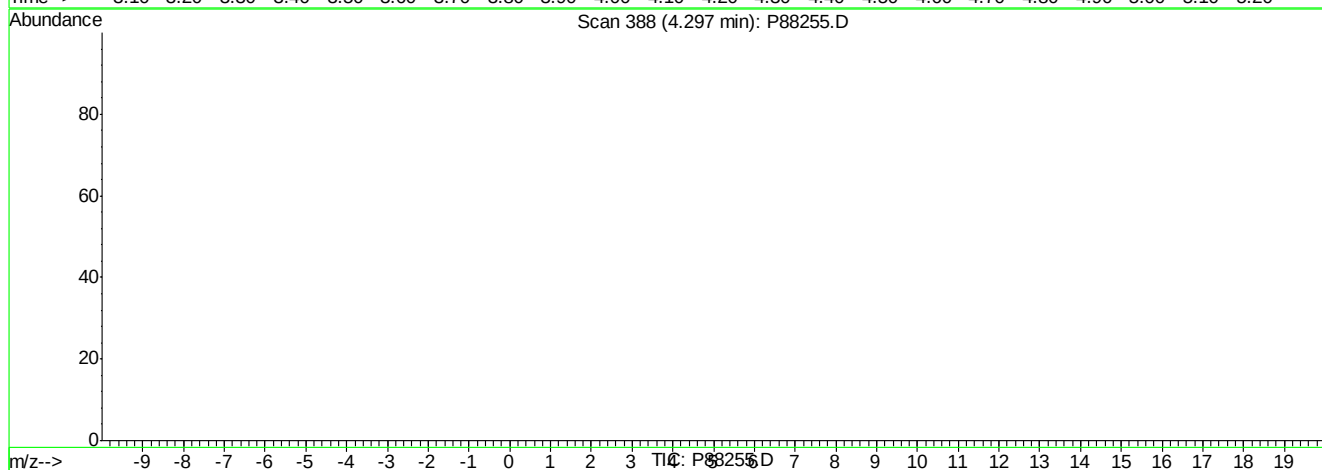
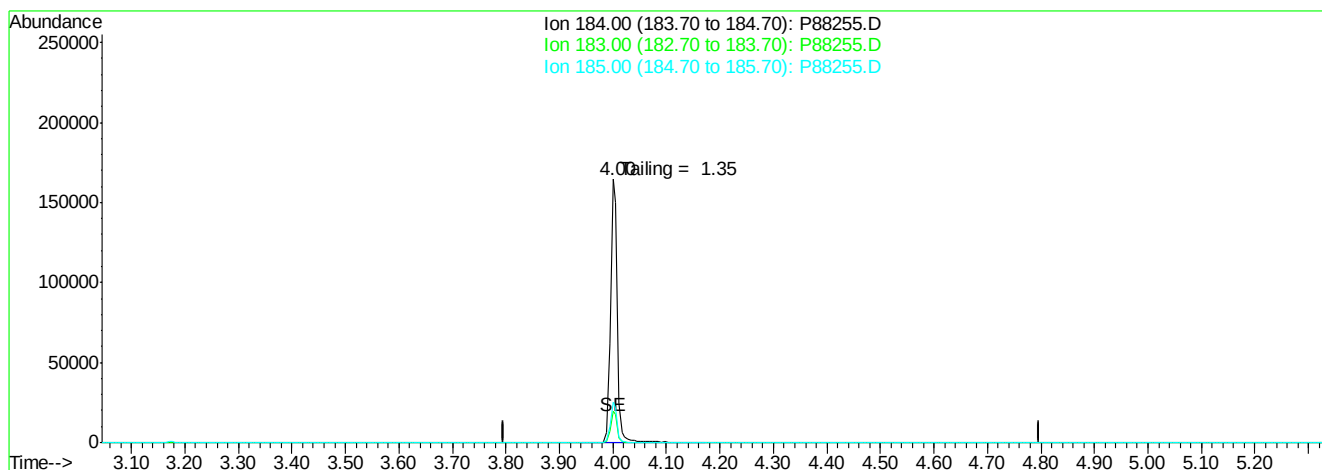
response 0

Ion	Exp%	Act%
265.80	100	0.00
263.80	63.10	0.00#
267.80	63.20	0.00#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EP3772\P88255.D Vial: 1
Acq On : 23 Aug 2014 8:40 am Operator: kristis
Sample : dftpp Inst : MSP
Misc : op76634,ep3772,1000,,,1,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 23 8:45 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\DFTPPP.M (RTE Integrator)
Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
Last Update : Wed Jul 30 09:32:58 2014
Response via : Single Level Calibration



(2) Benzidine (t)

4.30min 0.00ppb

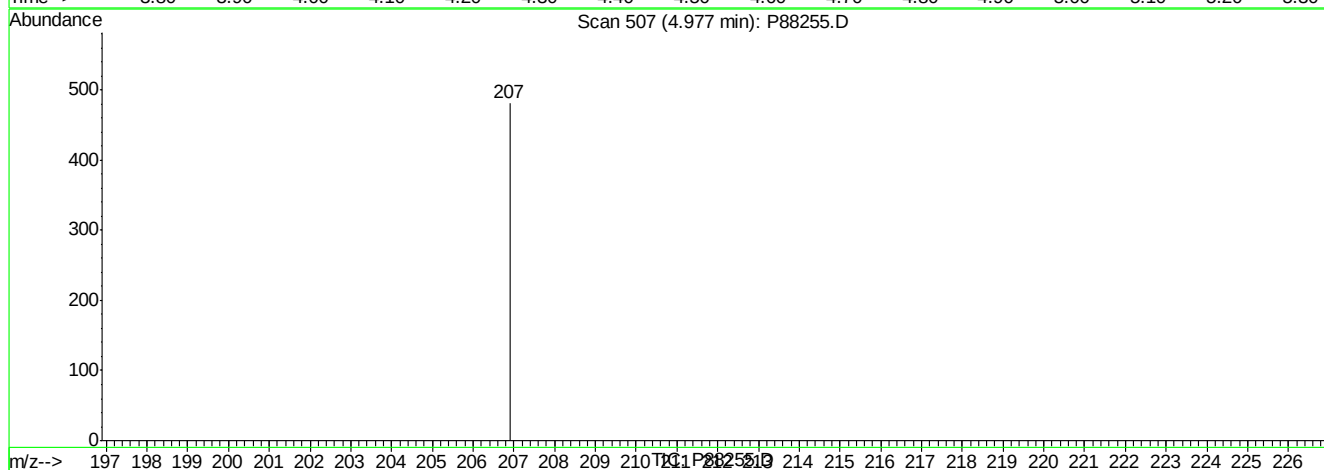
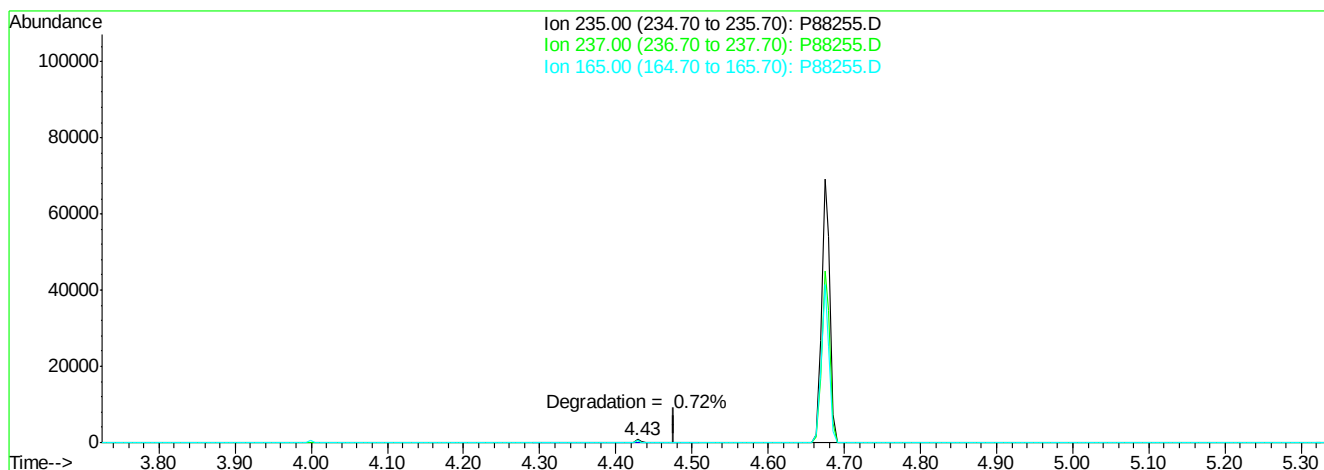
response 0

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

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EP3772\P88255.D Vial: 1
Acq On : 23 Aug 2014 8:40 am Operator: kristis
Sample : dftpp Inst : MSP
Misc : op76634,ep3772,1000,,,1,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 23 8:45 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\DFTPPP.M (RTE Integrator)
Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
Last Update : Wed Jul 30 09:32:58 2014
Response via : Single Level Calibration



(3) ddt

4.98min 0.00ppb

response 0

Ion	Exp%	Act%
235.00	100	0.00
237.00	65.40	0.00#
165.00	55.50	0.00#
0.00	0.00	0.00

DFTPP

Data File : C:\MSDCHEM\1\DATA\EP3796\P88853.D

Acq On : 9 Sep 2014 4:24 pm

Sample : dftpp

Misc : op76634,ep3796

MS Integration Params: RTEINT.P

Method : C:\MSDCHEM\1\METHODS\DFTPPP.M (RTE Integrator)

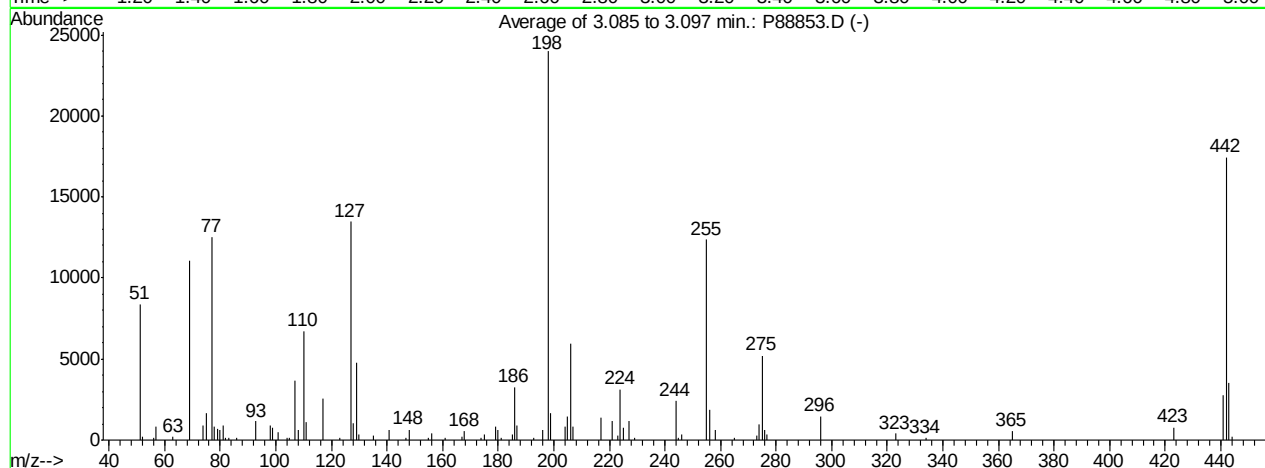
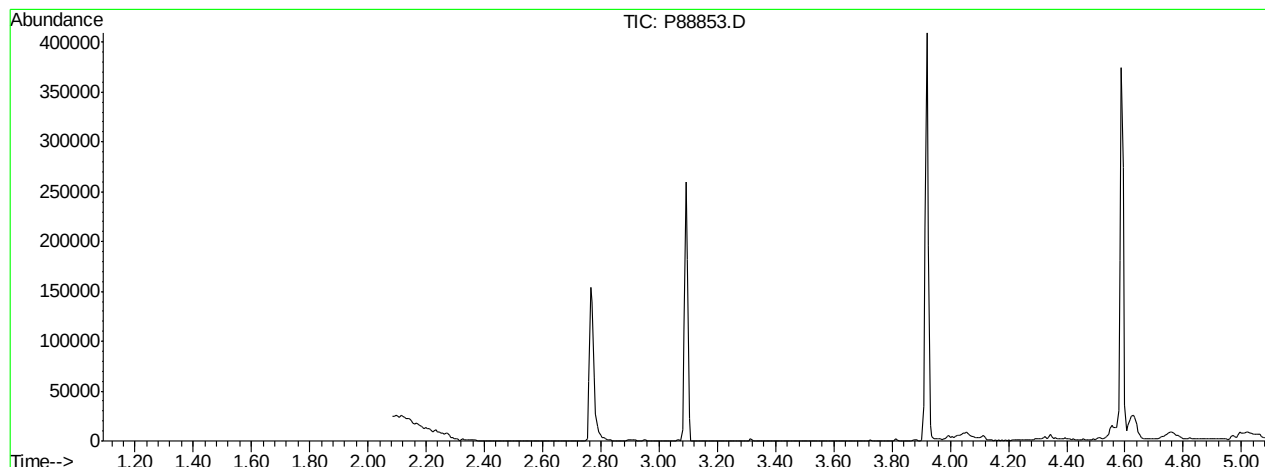
Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um

Vial: 1

Operator: ashleyd

Inst : MSP

Multiplr: 1.00



AutoFind: Scans 176, 177, 178; Background Corrected with Scan 172

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	35.0	8395	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	46.0	11034	PASS
70	69	0.00	2	0.0	0	PASS
127	198	40	60	56.2	13479	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	23972	PASS
199	198	5	9	6.9	1664	PASS
275	198	10	30	21.7	5211	PASS
365	198	1	100	2.3	554	PASS
441	443	0.10	100	78.7	2788	PASS
442	198	40	100	72.8	17452	PASS
443	442	17	23	20.3	3544	PASS

Average of 3.085 to 3.097 min.: P88853.D

dftpp

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
51.00	8395	79.90	616	106.90	3663	140.90	599
52.00	204	80.90	935	107.90	621	146.90	135
55.90	139	81.90	117	109.90	6731	147.90	625
56.90	807	82.90	124	110.90	1131	154.90	171
63.00	180	86.00	139	116.90	2543	155.90	413
68.90	11034	92.90	1164	122.90	175	160.90	129
73.95	923	97.90	918	126.90	13479	166.90	193
74.90	1639	98.90	786	127.90	1038	167.90	564
77.00	12551	100.90	485	128.90	4805	173.90	116
78.00	862	103.90	141	129.90	324	174.85	374
78.90	702	104.90	134	134.90	291	178.90	861

Average of 3.085 to 3.097 min.: P88853.D

dftpp

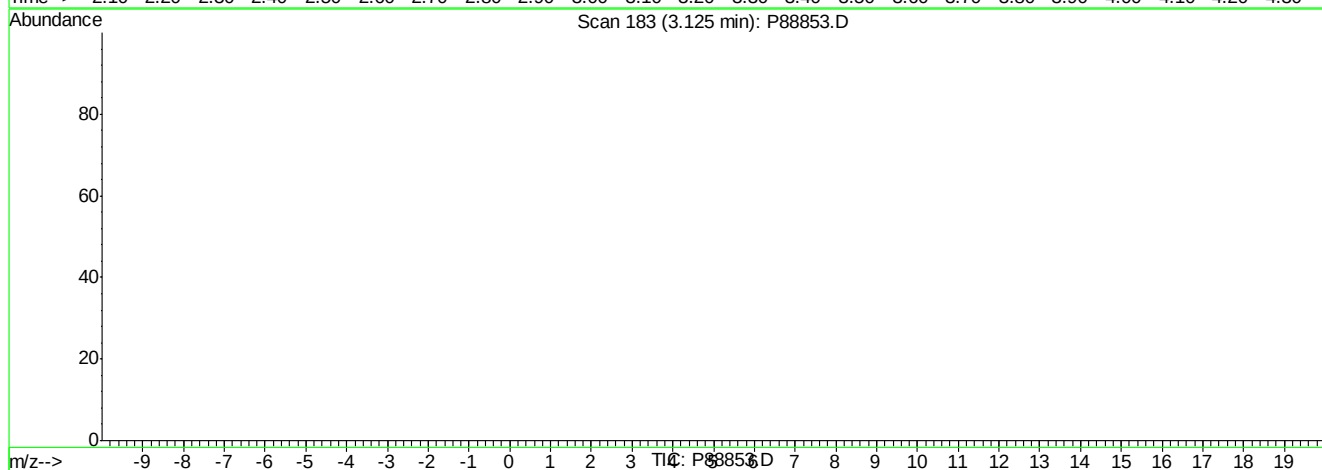
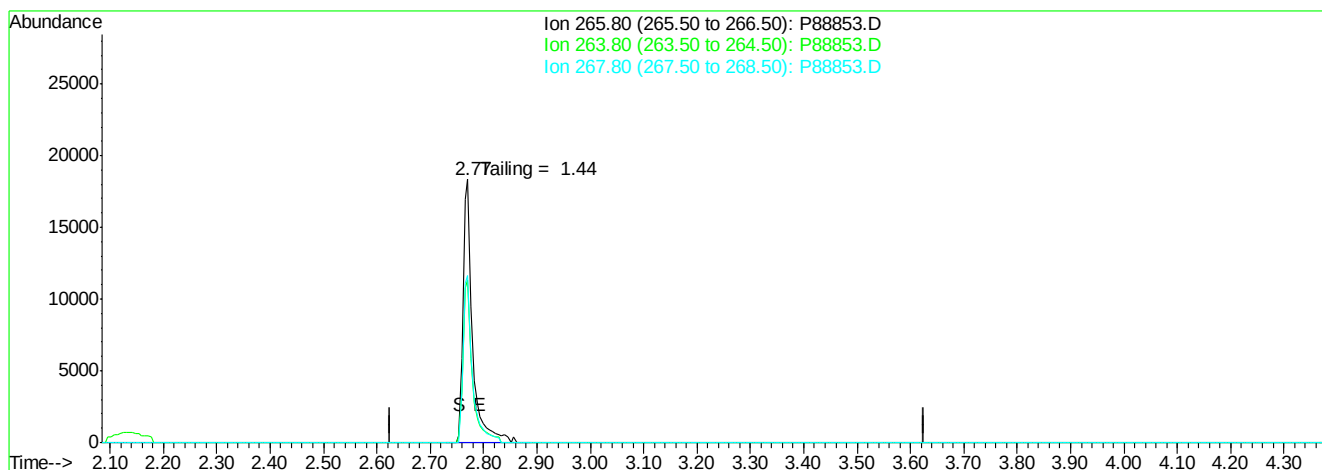
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
179.90	607	205.95	5982	245.85	348	322.90	409
180.90	135	206.95	833	254.90	12347	333.90	137
184.95	359	216.90	1385	255.90	1865	364.85	554
185.90	3271	220.95	1205	257.90	658	422.90	787
186.90	928	222.90	290	264.90	135	441.00	2788
192.90	134	223.90	3133	272.90	304	441.90	17452
195.90	656	224.95	766	273.90	949	442.90	3544
197.90	23972	226.90	1200	274.90	5211	443.90	190
198.85	1664	228.90	126	275.90	596		
203.90	837	243.95	2409	276.85	358		
204.90	1437	244.90	157	295.90	1469		

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EP3796\P88853.D Vial: 1
Acq On : 9 Sep 2014 4:24 pm Operator: ashleyd
Sample : dftpp Inst : MSP
Misc : op76634,ep3796 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 9 16:30 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\DFTPPP.M (RTE Integrator)
Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
Last Update : Wed Jul 30 09:32:58 2014
Response via : Single Level Calibration



(1) Pentachlorophenol (t)

3.13min 0.00ppb

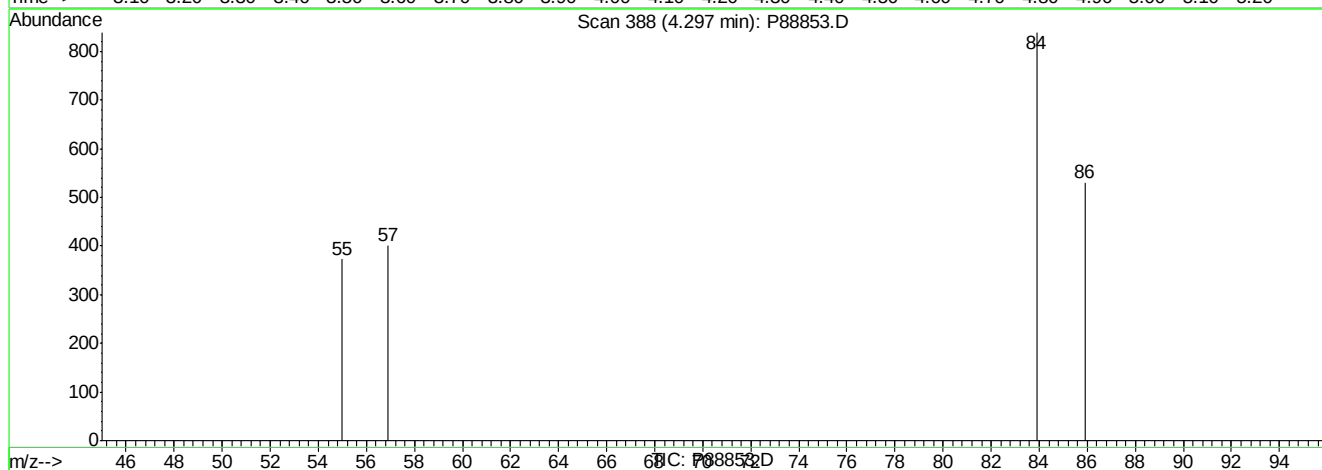
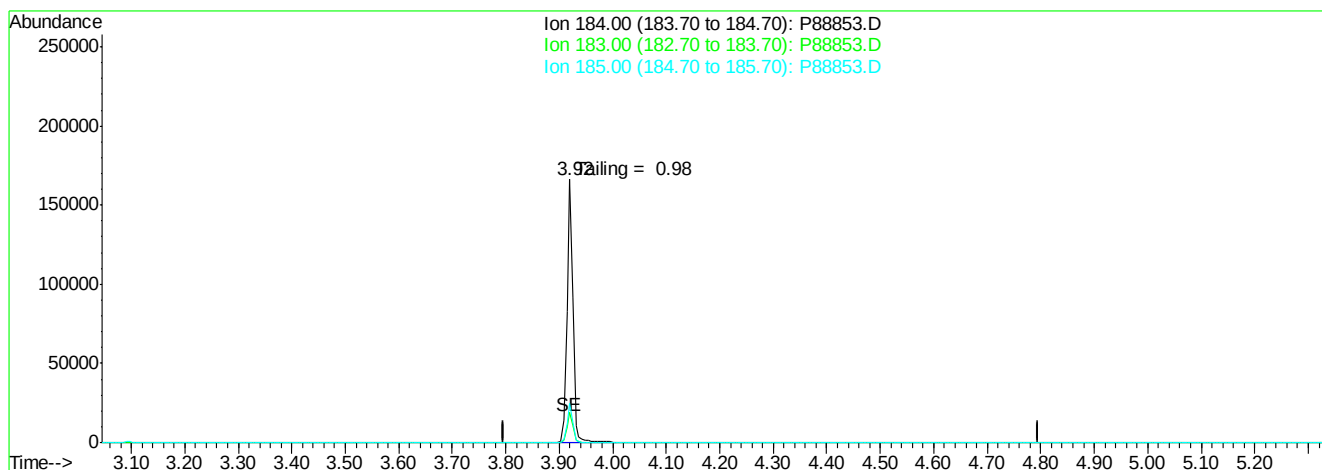
response 0

Ion	Exp%	Act%
265.80	100	0.00
263.80	63.10	0.00#
267.80	63.20	0.00#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EP3796\P88853.D Vial: 1
 Acq On : 9 Sep 2014 4:24 pm Operator: ashleyd
 Sample : dftpp Inst : MSP
 Misc : op76634,ep3796 Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Quant Time: Sep 9 16:30 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\DFTPPP.M (RTE Integrator)
 Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
 Last Update : Wed Jul 30 09:32:58 2014
 Response via : Single Level Calibration



(2) Benzidine (t)

4.30min 0.00ppb

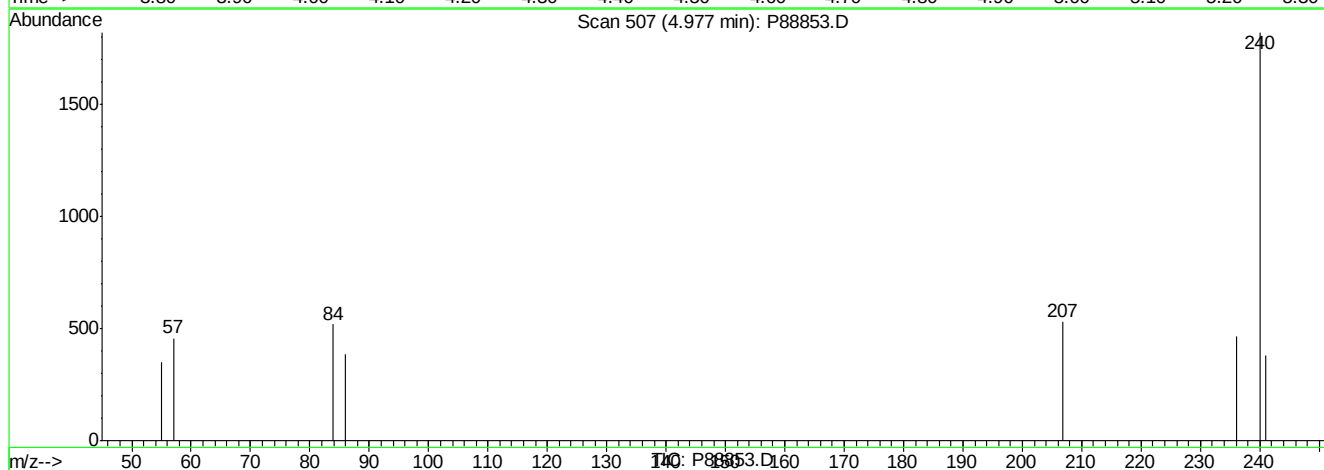
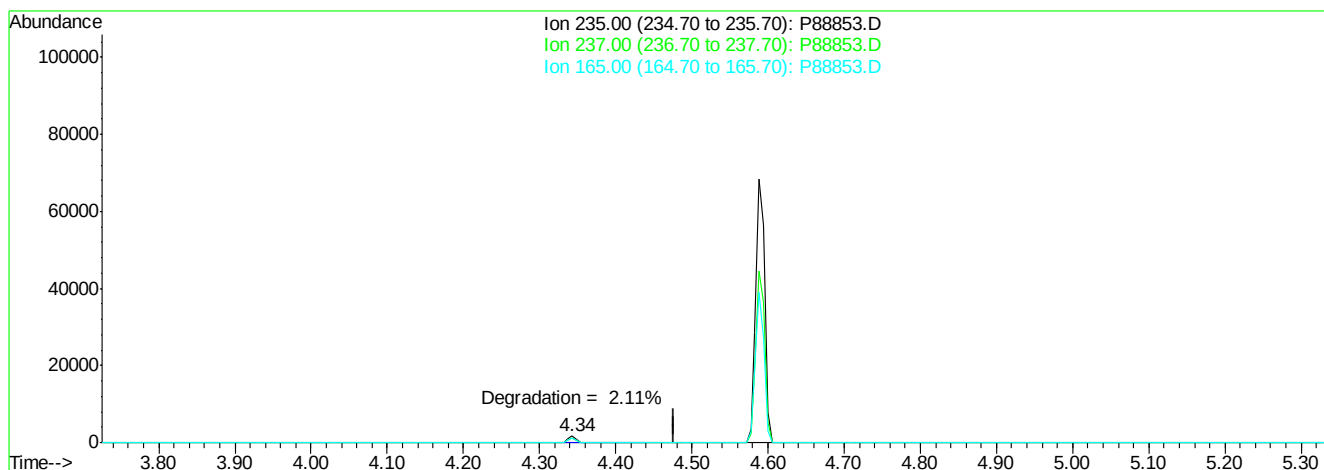
response 0

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

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EP3796\P88853.D Vial: 1
Acq On : 9 Sep 2014 4:24 pm Operator: ashleyd
Sample : dftpp Inst : MSP
Misc : op76634,ep3796 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 9 16:30 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\DFTPPP.M (RTE Integrator)
Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
Last Update : Wed Jul 30 09:32:58 2014
Response via : Single Level Calibration



(3) ddt

4.98min 0.00ppb

response 0

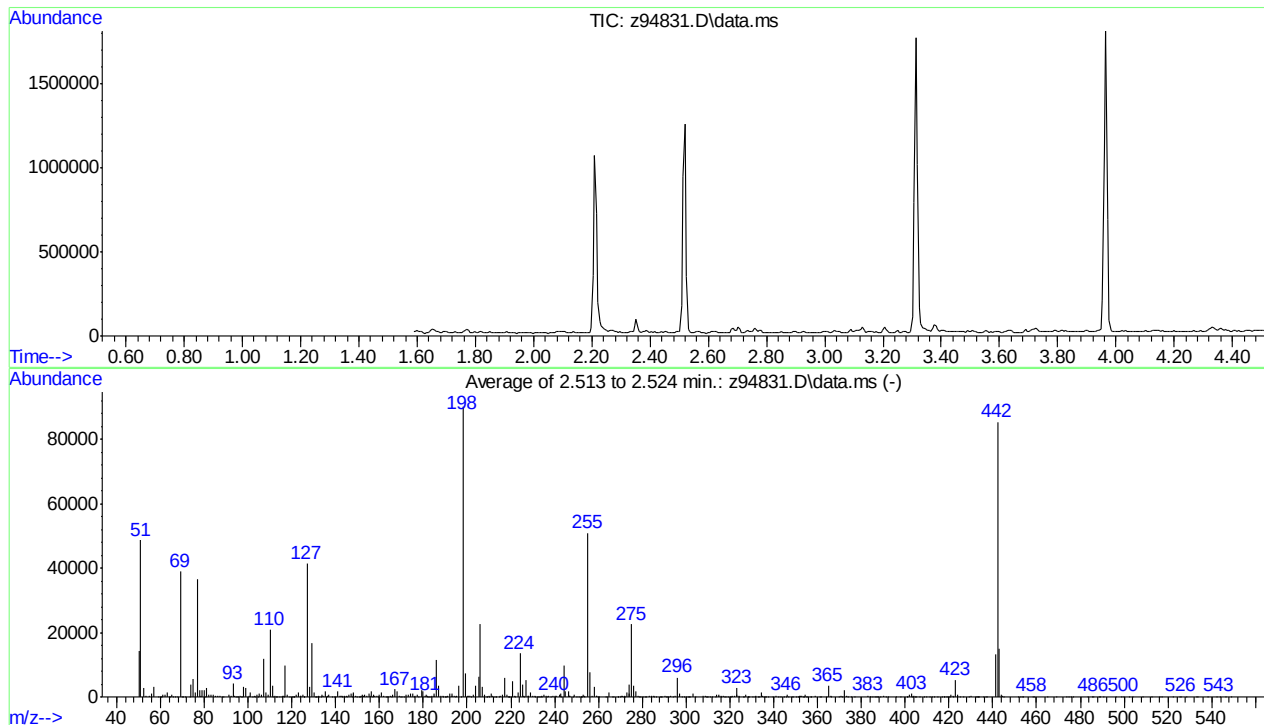
Ion	Exp%	Act%
235.00	100	0.00
237.00	65.40	0.00#
165.00	55.50	0.00#
0.00	0.00	0.00

DFTPP

Data Path : C:\msdchem\1\DATA\ez4711\
Data File : z94831.D
Acq On : 26 Aug 2014 1:09 pm
Operator : ashleyv
Sample : DFTPP
Misc : op76603,ez4711
ALS Vial : 1 Sample Multiplier: 1

Integration File: events.e

Method : C:\MSDCHEM\1\METHODS\DFTPPZ.M
Title : column rtx-5msi 30mx0.25mmx0.25um
Last Update : Tue Jul 22 09:37:58 2014



AutoFind: Scans 163, 164, 165; Background Corrected with Scan 159

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	53.9	48634	PASS
68	69	0.00	2	0.3	116	PASS
69	198	0.00	100	43.1	38924	PASS
70	69	0.00	2	0.2	90	PASS
127	198	40	60	45.8	41327	PASS
197	198	0.00	1	0.2	181	PASS
198	198	100	100	100.0	90224	PASS
199	198	5	9	8.0	7239	PASS
275	198	10	30	24.9	22509	PASS
365	198	1	100	3.7	3362	PASS
441	443	0.01	100	89.1	13277	PASS
442	198	40	100	94.8	85514	PASS
443	442	17	23	17.4	14908	PASS

Average of 2.513 to 2.524 min.: z94831.D\data.ms

DFTPP

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
50.10	14131	61.10	618	70.40	52	80.50	72
51.05	48634	62.05	538	71.15	137	81.05	2679
52.20	2889	63.10	1576	73.25	115	82.05	612
53.15	242	63.90	60	74.10	3866	83.10	762
54.95	376	64.30	90	75.10	5702	84.00	703
56.10	1194	65.05	622	76.10	1515	85.10	403
57.15	3266	65.90	76	77.15	36668	86.00	386
59.00	53	66.80	57	78.10	2114	87.15	349
60.00	99	67.70	116	78.30	238	88.30	132
60.20	32	69.05	38924	79.05	2250	88.80	80
60.80	36	70.00	90	80.05	2273	91.05	798

Average of 2.513 to 2.524 min.: z94831.D\data.ms

DFTPP

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
92.10	188	100.25	246	109.00	547	116.30	145
93.10	4107	101.05	1441	110.10	20788	117.10	9645
93.95	391	102.15	120	111.00	3380	118.10	578
94.20	17	103.00	303	111.20	123	119.00	93
94.90	85	103.20	150	112.10	487	119.90	168
95.20	122	104.00	664	112.80	34	120.60	17
96.20	260	104.40	87	113.40	18	121.00	53
97.00	38	104.95	973	114.25	163	121.20	122
97.40	84	106.15	658	115.20	153	122.00	803
98.10	3110	107.10	11721	115.90	289	123.15	1248
99.10	2775	108.05	1548	116.10	277	123.90	394

Average of 2.513 to 2.524 min.: z94831.D\data.ms

DFTPP

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
124.15	264	132.00	55	140.05	170	147.00	902
125.10	583	132.40	200	141.05	1701	147.40	86
125.40	86	133.10	135	141.90	292	147.90	921
125.70	163	133.95	676	142.35	329	148.10	1384
127.05	41327	134.20	221	143.00	281	149.05	504
128.10	3069	135.05	1892	143.20	143	149.70	69
129.05	16897	135.80	83	143.90	191	150.40	66
130.05	1462	136.05	495	144.20	34	150.90	147
130.80	53	137.00	740	144.85	204	151.50	215
131.00	135	138.10	131	145.25	112	152.00	607
131.25	103	139.20	56	146.05	687	152.90	304

Average of 2.513 to 2.524 min.: z94831.D\data.ms

DFTPP

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
153.10	555	161.05	1390	169.70	135	179.05	2214
154.10	414	162.05	352	170.20	23	180.05	1918
155.15	889	163.00	46	170.95	106	180.85	285
155.90	311	163.30	97	172.05	667	181.10	646
156.15	1917	163.70	63	173.05	630	181.80	214
157.00	139	165.05	410	174.05	1043	182.10	119
157.25	553	165.30	164	175.05	1160	182.50	131
157.95	258	166.00	603	175.70	18	182.90	150
159.00	316	167.10	2298	176.15	386	184.05	341
159.30	61	168.10	1619	177.00	665	184.90	190
160.10	687	169.05	310	178.00	151	185.15	1189

Average of 2.513 to 2.524 min.: z94831.D\data.ms

DFTPP

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
186.10	11342	193.20	299	202.05	182	210.20	433
187.10	3617	194.20	339	203.05	585	211.05	970
188.20	343	194.70	173	204.05	3353	211.55	424
188.85	172	195.05	388	205.15	6184	212.20	123

189.20	484	195.95	3404	206.10	22620	212.95	16
189.80	48	197.00	181	207.10	3209	213.20	45
190.00	70	198.00	90224	207.90	203	214.50	39
190.50	63	199.05	7239	208.20	578	215.15	355
191.15	426	200.05	487	209.00	82	216.00	794
192.10	913	200.80	258	209.20	60	217.00	5769
193.00	1183	201.40	442	210.00	109	218.00	786

Average of 2.513 to 2.524 min.: z94831.D\data.ms
DFTPP

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
218.60	26	226.10	344	233.60	86	242.05	570
219.00	95	227.05	5357	233.90	191	242.60	95
219.40	61	227.90	403	234.20	60	243.00	903
220.10	70	228.10	304	235.05	628	244.10	9809
221.00	4918	229.00	1421	236.10	218	245.05	1610
221.70	398	229.95	198	236.80	176	246.10	1885
222.00	54	230.90	149	237.00	208	246.90	241
223.10	1465	231.10	234	238.00	71	247.10	289
224.10	13455	232.05	9	239.10	361	248.15	183
225.10	3689	232.50	36	240.15	426	249.05	660
225.80	30	232.90	126	240.90	239	249.90	87

Average of 2.513 to 2.524 min.: z94831.D\data.ms
DFTPP

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
251.10	145	259.00	268	269.80	93	277.05	1891
251.75	149	259.20	320	270.30	199	278.05	422
252.00	106	259.90	20	271.15	250	278.70	21
252.30	55	260.40	139	271.40	96	278.85	67
253.05	631	263.00	38	271.80	126	280.00	33
253.40	28	263.85	175	272.05	288	281.25	111
253.75	284	264.95	1254	273.05	1305	281.90	68
255.10	51008	266.05	164	274.00	3774	283.00	274
256.10	7744	266.60	168	274.20	969	284.00	303
257.15	316	268.80	33	275.10	22509	285.00	167
258.00	2990	269.05	100	276.10	3618	285.15	292

Average of 2.513 to 2.524 min.: z94831.D\data.ms
DFTPP

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
286.20	122	296.00	6055	309.00	206	316.10	337
288.20	115	297.10	1170	309.30	33	317.00	236
288.50	21	297.80	21	309.50	98	317.70	31
289.00	17	299.00	19	309.80	114	317.90	17
290.15	263	299.90	42	310.90	17	319.05	138
291.00	24	301.00	91	311.90	166	320.20	16
291.60	22	301.20	81	313.30	46	320.70	80
291.90	31	301.80	92	314.00	700	321.05	311
293.05	526	303.15	930	314.90	229	322.05	218
293.90	145	304.15	156	315.15	698	322.90	588
294.95	296	307.95	197	315.80	133	323.15	2645

Average of 2.513 to 2.524 min.: z94831.D\data.ms
DFTPP

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
323.90	71	332.75	85	343.20	30	352.20	398
324.20	263	333.10	170	344.50	67	352.90	460
326.10	43	334.20	1563	345.50	38	353.30	179
326.40	35	334.95	251	346.00	614	353.90	130
326.95	568	335.20	96	346.60	125	354.15	678
328.00	182	335.70	28	348.10	38	354.90	93
328.20	69	336.20	65	348.80	45	355.20	52
328.90	55	337.50	17	350.00	47	356.70	78
330.30	73	339.40	19	351.10	60	357.10	42
331.25	61	340.95	232	351.30	125	359.05	209
332.00	207	342.00	63	351.85	426	360.80	28

Average of 2.513 to 2.524 min.: z94831.D\data.ms

DFTPP

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
361.70	23	375.30	42	390.15	259	403.90	282
363.80	84	376.80	39	391.10	73	404.25	120
365.05	3362	383.10	457	392.00	116	404.80	17
366.00	399	383.80	187	395.70	29	406.60	124
366.20	138	384.20	118	397.80	40	408.60	46
369.60	36	384.80	29	400.70	33	409.70	33
370.80	206	386.30	69	401.00	77	410.90	46
371.05	114	386.60	38	402.10	699	412.00	99
372.05	2032	387.10	28	402.90	118	413.20	37
373.10	338	387.40	24	403.10	1008	414.95	82
373.90	19	388.80	35	403.50	37	416.90	72

Average of 2.513 to 2.524 min.: z94831.D\data.ms

DFTPP

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
417.60	43	424.10	770	436.80	30	453.70	54
417.90	43	425.15	129	437.30	44	458.10	54
418.60	80	426.40	42	441.10	13277	458.80	17
419.10	20	429.10	98	442.10	85514	464.80	23
420.00	50	430.05	188	443.10	14908	469.00	25
420.50	28	432.20	52	443.95	807	473.40	27
421.10	812	432.40	42	444.20	484	474.40	26
421.70	169	433.10	49	445.10	113	475.80	26
422.05	431	433.30	109	451.60	20	476.50	38
423.00	5352	433.60	51	452.60	102	483.50	18
423.90	279	435.65	69	453.40	55	485.30	18

Average of 2.513 to 2.524 min.: z94831.D\data.ms

DFTPP

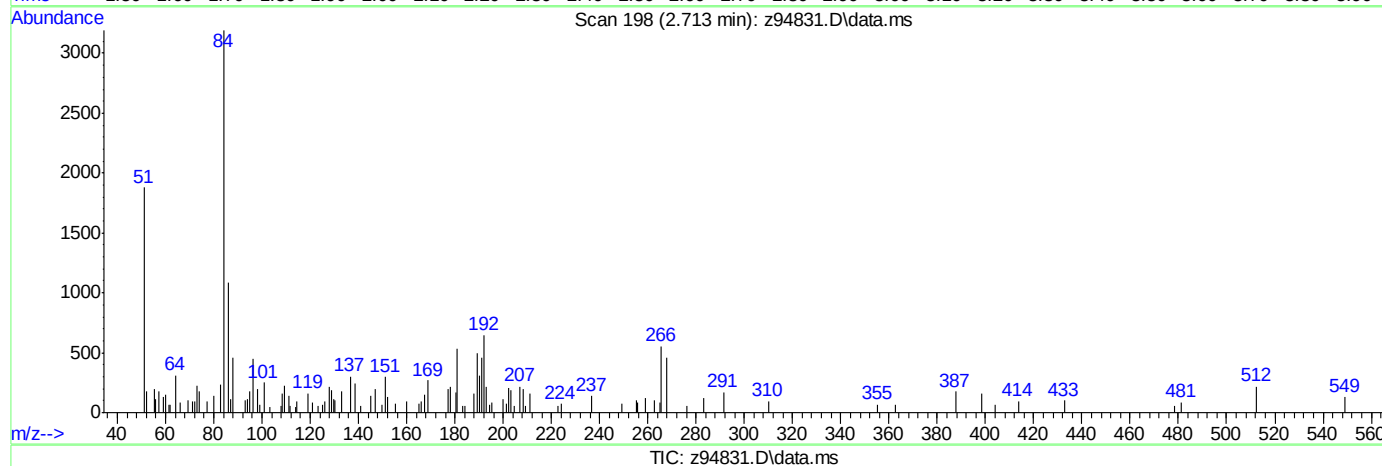
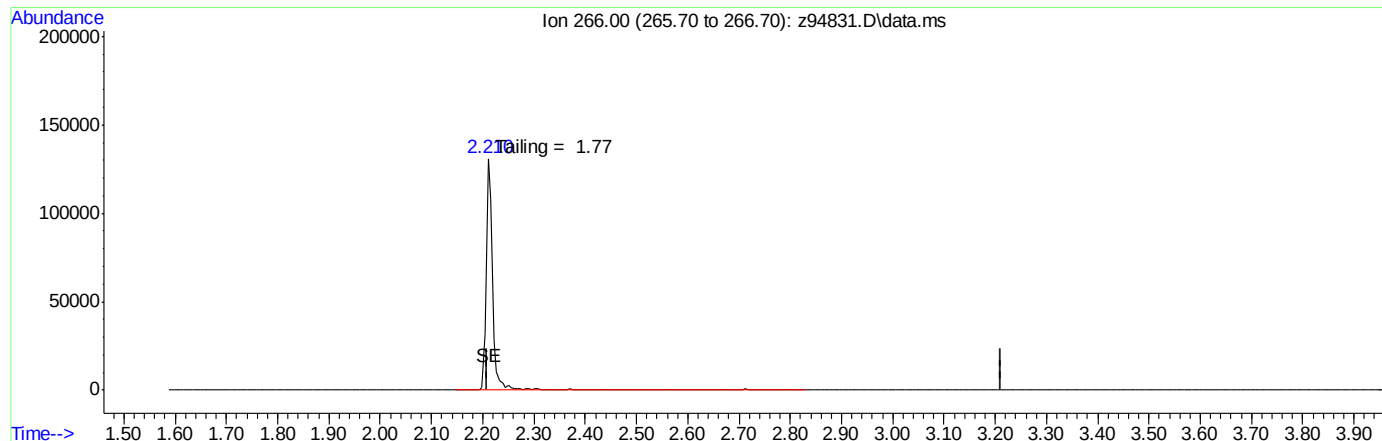
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
485.95	83	515.80	31	546.40	53		
488.50	72	516.90	32	548.60	40		
489.10	25	522.30	31				
490.50	29	525.10	17				
496.00	34	525.90	72				
498.40	19	528.30	18				
499.80	73	532.70	21				
502.10	33	533.70	24				
503.70	21	537.90	39				
508.20	28	542.30	29				
512.50	31	543.50	76				

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\ez4711\
Data File : z94831.D
Acq On : 26 Aug 2014 1:09 pm
Operator : ashleyv
Sample : DFTPP
Misc : op76603,ez4711
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 26 13:15:04 2014
Quant Method : C:\MSDCHEM\1\METHODS\DFTPPZ.M
Quant Title : column rtx-5msi 30mx0.25mmx0.25um
QLast Update : Tue Jul 22 09:37:58 2014
Response via : Initial Calibration



(1) Pentachlorophenol

2.711min (-2.711) 0.00

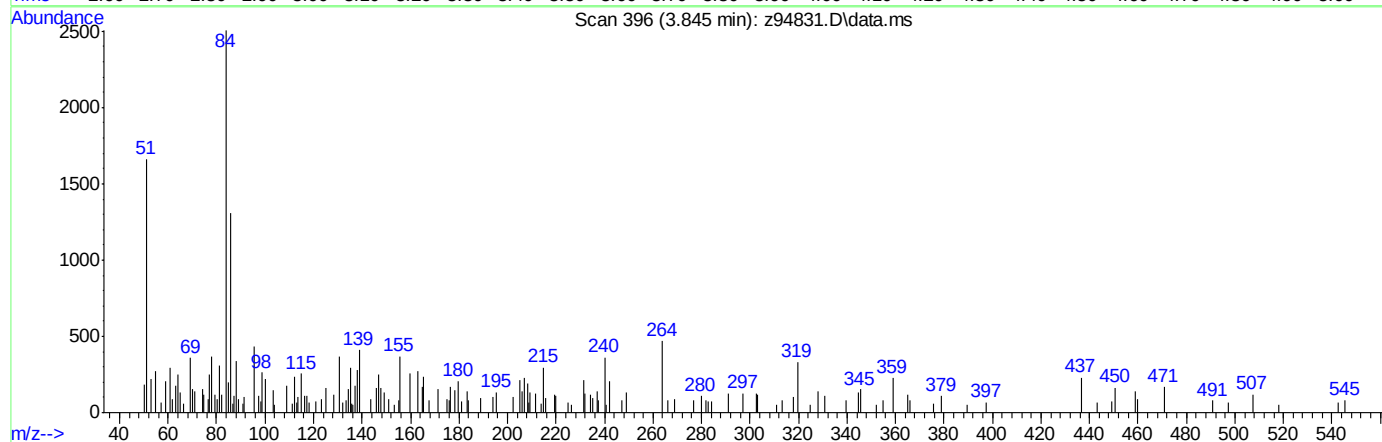
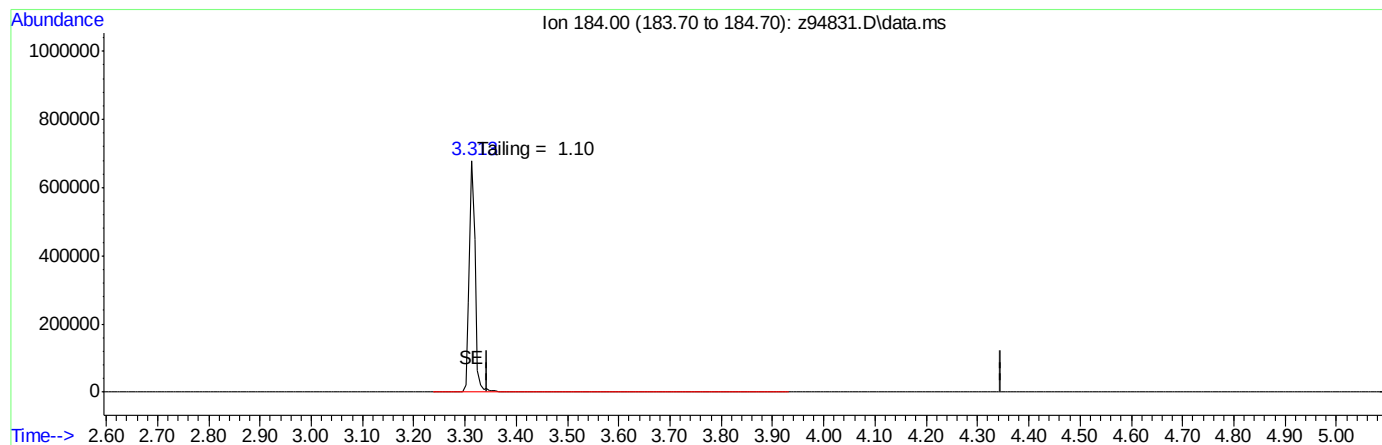
response 0

Ion	Exp%	Act%
266.00	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\ez4711\
Data File : z94831.D
Acq On : 26 Aug 2014 1:09 pm
Operator : ashleyv
Sample : DFTPP
Misc : op76603,ez4711
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 26 13:15:04 2014
Quant Method : C:\MSDCHEM\1\METHODS\DFTPPZ.M
Quant Title : column rtx-5msi 30mx0.25mmx0.25um
QLast Update : Tue Jul 22 09:37:58 2014
Response via : Initial Calibration



TIC: z94831.D\data.ms

(2) Benzidine

3.845min (-3.845) 0.00

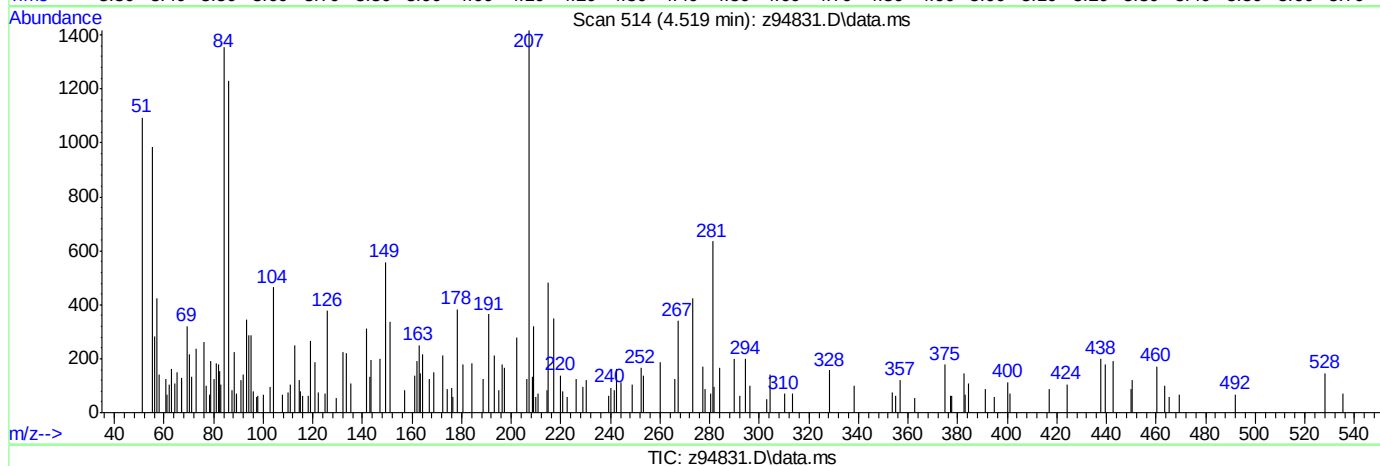
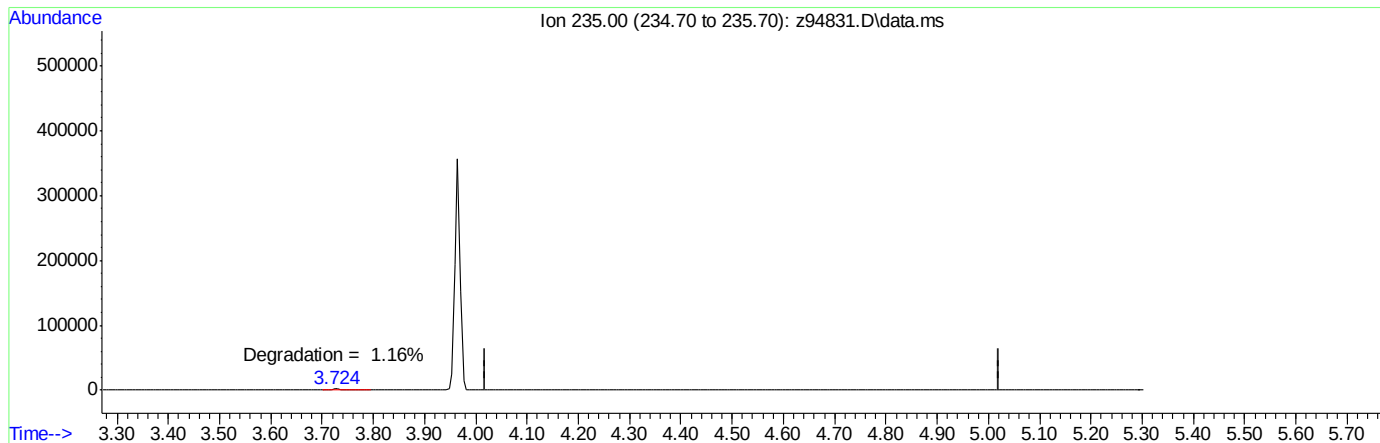
response 0

Ion	Exp%	Act%
184.00	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\ez4711\
Data File : z94831.D
Acq On : 26 Aug 2014 1:09 pm
Operator : ashleyv
Sample : DFTPP
Misc : op76603,ez4711
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 26 13:15:04 2014
Quant Method : C:\MSDCHEM\1\METHODS\DFTPPZ.M
Quant Title : column rtx-5msi 30mx0.25mmx0.25um
QLast Update : Tue Jul 22 09:37:58 2014
Response via : Initial Calibration



(3) PP-DDT

4.520min (-4.520) 0.00

response 0

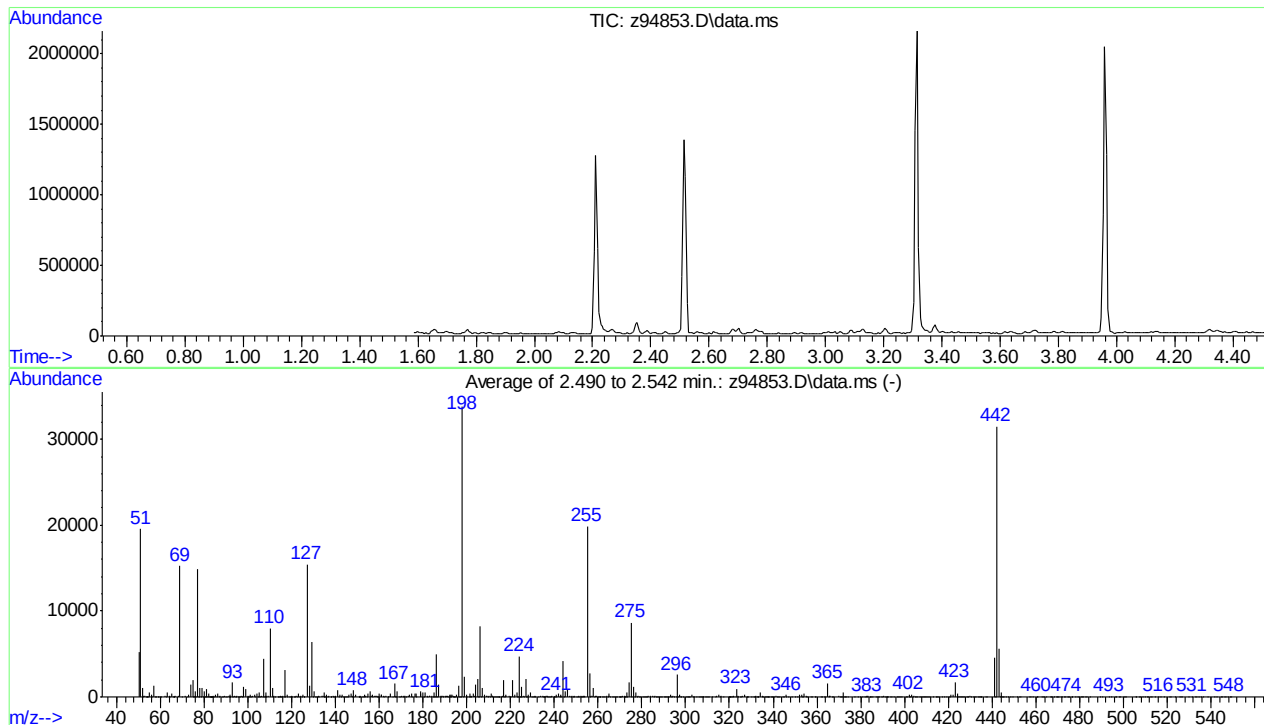
Ion	Exp%	Act%
235.00	100	0.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

DFTPP

Data Path : C:\msdchem\1\DATA\ez4711\
Data File : z94853.D
Acq On : 26 Aug 2014 10:35 pm
Operator : ashleyv
Sample : DFTPP
Misc : op76603,ez4712
ALS Vial : 1 Sample Multiplier: 1

Integration File: events.e

Method : C:\MSDCHEM\1\METHODS\DFTPPZ.M
Title : column rtx-5msi 30mx0.25mmx0.25um
Last Update : Wed Sep 03 10:39:19 2014



Spectrum Information: Average of 2.490 to 2.542 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	57.9	19561	PASS
68	69	0.00	2	0.7	113	PASS
69	198	0.00	100	45.1	15256	PASS
70	69	0.00	2	0.0	0	PASS
127	198	40	60	45.6	15425	PASS
197	198	0.00	1	0.0	9	PASS
198	198	100	100	100.0	33811	PASS
199	198	5	9	7.1	2407	PASS
275	198	10	30	25.6	8644	PASS
365	198	1	100	4.8	1607	PASS
441	443	0.01	100	82.7	4618	PASS
442	198	40	100	93.1	31481	PASS
443	442	17	23	17.7	5581	PASS

Average of 2.490 to 2.542 min.: z94853.D\data.ms

DFTPP

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
50.15	5278	56.00	288	63.10	576	71.15	94
51.10	19561	56.25	58	64.10	184	72.15	31
51.90	67	57.05	1269	64.30	7	73.05	235
52.10	1011	57.30	35	65.15	411	74.10	1467
52.25	121	57.95	31	65.85	52	75.10	2018
53.05	156	58.90	23	66.25	40	75.20	7
53.25	56	59.20	22	66.50	7	75.35	21
53.75	19	59.90	38	66.95	105	76.00	178
54.10	27	60.20	37	68.20	113	76.10	627
54.30	12	62.05	196	69.05	15256	76.25	58
55.15	550	62.60	16	69.60	24	77.10	14825

Average of 2.490 to 2.542 min.: z94853.D\data.ms

DFTPP

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
77.30	43	81.85	61	83.95	69	89.90	5
77.60	30	82.15	363	84.15	154	90.20	12
78.10	1099	82.30	13	84.70	8	91.10	178
78.80	21	82.50	46	85.05	254	91.30	11
79.05	1066	82.80	7	85.85	32	91.80	37
79.80	36	83.05	60	86.10	339	91.90	16
80.00	657	83.20	44	86.95	40	92.05	295
80.40	13	83.30	54	87.20	72	92.80	29
80.80	43	83.50	26	88.15	62	93.05	1658
81.05	943	83.70	25	88.90	16	93.50	36
81.25	32	83.80	12	89.15	186	94.10	119

Average of 2.490 to 2.542 min.: z94853.D\data.ms

DFTPP

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
94.30	17	99.10	927	104.90	8	108.25	54
94.60	37	100.00	126	105.15	505	109.10	74
95.15	156	100.25	28	105.40	25	110.10	7972
95.70	7	100.70	5	105.70	11	111.10	984
95.95	18	101.00	306	106.00	118	111.40	22
96.40	42	101.25	23	106.70	27	112.05	79
97.00	128	101.70	5	107.10	4457	112.30	22
97.25	63	102.00	106	107.30	34	113.70	9
97.60	14	102.95	39	107.60	27	114.10	7
98.00	95	103.20	330	108.00	536	114.40	10
98.10	1158	104.00	391	108.10	101	114.70	30

Average of 2.490 to 2.542 min.: z94853.D\data.ms

DFTPP

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
114.95	126	119.85	20	125.10	324	132.15	94
115.10	15	120.10	94	125.70	13	132.40	9
115.30	41	121.05	4	125.90	5	133.90	88
116.10	99	121.80	9	127.10	15425	134.15	110
116.30	15	122.05	172	128.15	1269	134.80	13
116.85	39	122.60	12	129.05	6454	134.90	5
117.10	3134	123.00	137	129.60	7	135.05	519
117.80	16	123.15	433	130.05	718	135.40	6
118.15	233	123.80	17	130.70	17	135.95	267
119.20	7	124.20	171	131.40	7	136.30	43
119.45	21	124.60	25	131.70	23	137.05	185

Average of 2.490 to 2.542 min.: z94853.D\data.ms

DFTPP

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
137.80	69	143.70	5	149.10	211	155.05	400
138.20	7	144.20	29	150.55	33	156.05	685
138.90	5	144.70	24	150.95	40	156.20	102
139.15	128	145.05	49	151.25	70	156.80	34

139.45	31	145.50	9	151.50	24	157.15	298
140.20	76	146.00	235	152.20	59	157.90	102
141.05	777	147.00	340	152.70	6	158.20	85
141.70	8	147.80	8	153.10	266	158.85	30
142.05	248	147.90	91	153.30	26	159.20	81
142.75	48	148.05	805	154.00	195	159.70	10
143.15	244	148.35	15	154.20	12	160.10	335

Average of 2.490 to 2.542 min.: z94853.D\data.ms
DFTPP

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
161.00	270	167.00	146	172.35	49	180.30	20
161.15	213	167.10	1548	173.15	193	181.05	533
161.90	53	167.60	50	174.00	280	181.95	124
162.15	103	168.05	685	174.90	58	182.25	14
163.00	84	169.40	49	175.05	448	182.80	92
164.00	39	169.90	6	176.20	366	183.25	89
164.20	47	170.35	89	176.90	19	184.10	134
165.00	408	170.70	16	177.10	361	184.70	57
165.25	122	171.05	140	179.00	639	185.00	9
166.20	64	171.30	7	179.10	368	185.15	483
166.90	68	171.95	174	180.00	568	185.55	22

Average of 2.490 to 2.542 min.: z94853.D\data.ms
DFTPP

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
185.90	40	190.90	84	194.10	30	199.70	13
186.10	4933	191.10	159	194.30	44	200.05	237
186.85	32	191.30	6	194.85	51	200.85	29
187.10	1404	191.60	11	195.20	243	201.25	44
188.00	10	192.00	268	196.10	1274	201.55	387
188.10	159	192.40	22	196.40	10	201.80	36
188.80	150	192.60	50	196.80	5	202.10	86
189.05	178	193.00	318	197.60	9	203.05	426
189.40	9	193.20	271	198.00	33811	203.30	80
190.05	88	193.60	9	198.20	54	204.10	1382
190.35	22	193.90	91	199.00	2407	205.05	2151

Average of 2.490 to 2.542 min.: z94853.D\data.ms
DFTPP

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
205.25	19	211.10	339	215.85	23	221.60	62
205.70	13	211.50	17	216.15	179	221.90	265
206.10	8186	211.70	72	216.80	6	222.80	30
206.50	13	211.85	125	217.00	2016	223.15	580
207.10	1064	212.20	18	217.20	35	223.70	44
207.95	277	212.50	7	217.80	109	224.10	4751
209.05	116	213.10	35	218.05	283	224.40	22
209.20	73	213.70	8	219.15	87	224.70	10
209.90	18	214.05	42	219.90	51	224.85	23
210.20	119	214.60	64	220.10	43	225.10	1127
210.80	39	214.90	40	221.05	1908	225.80	43

Average of 2.490 to 2.542 min.: z94853.D\data.ms
DFTPP

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
226.15	112	232.50	12	238.00	5	242.95	316
226.90	6	233.90	162	238.25	56	243.15	106
227.05	2066	234.50	30	239.10	121	244.10	4121
227.70	5	234.95	95	239.80	6	244.50	6
228.00	220	235.20	59	239.95	48	245.05	605
229.10	469	235.40	14	240.30	7	245.95	883
229.65	23	235.80	52	240.75	20	246.95	164
230.10	55	236.05	153	241.05	205	247.70	13
230.60	13	236.80	18	242.10	333	248.20	76
231.00	193	237.05	163	242.30	11	248.50	34
231.25	52	237.35	44	242.70	6	248.85	77

Average of 2.490 to 2.542 min.: z94853.D\data.ms

DFTPP

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
249.10	62	253.95	104	260.20	25	266.40	16
250.00	9	255.10	19895	260.90	21	266.90	19
250.50	22	256.10	2716	261.10	15	267.70	52
251.00	42	256.30	31	261.90	11	267.90	30
251.35	97	257.00	139	262.60	8	268.70	6
252.00	57	257.25	135	262.85	43	269.60	18
252.35	101	258.00	1049	263.95	81	269.90	63
252.80	29	258.50	10	264.25	66	270.10	35
253.00	65	258.90	117	264.90	126	270.55	54
253.15	125	259.10	87	265.05	371	271.00	98
253.50	48	259.90	57	265.65	64	271.90	78

Average of 2.490 to 2.542 min.: z94853.D\data.ms

DFTPP

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
272.10	29	277.95	21	285.15	181	291.10	45
272.30	6	278.15	99	285.60	9	291.60	12
272.60	23	278.90	25	285.85	75	292.00	35
273.15	577	279.30	51	286.40	24	292.15	40
273.35	12	280.10	5	287.10	15	293.00	273
274.05	1660	280.95	30	287.50	7	293.30	32
275.05	8644	281.25	46	287.90	7	293.80	17
275.40	10	281.95	35	288.30	5	294.10	83
276.00	1227	282.50	7	288.90	37	294.90	61
276.50	10	283.10	80	290.30	9	295.85	26
277.05	570	284.15	115	290.80	7	296.10	2565

Average of 2.490 to 2.542 min.: z94853.D\data.ms

DFTPP

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
296.30	8	301.95	21	308.80	15	319.60	5
296.70	57	303.05	328	309.30	11	319.80	11
297.00	200	303.55	40	310.15	44	320.20	14
297.20	134	304.10	62	310.80	25	320.50	19
297.50	8	305.05	15	312.10	12	320.95	58
297.95	24	306.00	20	313.50	14	321.30	26
299.00	15	306.30	6	314.15	127	321.80	18
300.20	6	307.00	12	314.95	242	322.05	104
300.80	8	307.40	5	315.70	11	322.60	17
301.10	60	308.00	6	316.05	122	323.10	964
301.50	29	308.20	25	317.00	5	323.90	7

Average of 2.490 to 2.542 min.: z94853.D\data.ms

DFTPP

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
324.10	150	331.30	48	336.60	15	342.30	13
325.10	19	331.50	12	337.10	30	343.00	14
325.55	55	332.05	81	337.60	6	344.20	6
326.05	88	332.60	12	337.90	16	344.80	18
326.80	106	332.90	53	338.15	13	345.65	16
327.15	210	333.10	68	339.00	54	346.05	244
327.75	69	334.00	579	339.20	5	346.75	21
328.05	56	334.90	60	339.70	5	348.60	22
328.30	12	335.10	90	340.25	41	349.90	9
329.95	27	335.30	56	341.10	127	351.20	9
331.10	6	336.15	26	342.00	60	352.00	327

Average of 2.490 to 2.542 min.: z94853.D\data.ms

DFTPP

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
352.90	46	361.70	31	370.45	26	379.50	12
353.15	218	362.20	39	370.90	50	380.90	5
353.80	17	363.40	33	371.60	11	381.90	33
354.05	340	363.60	14	371.90	9	382.30	5
354.90	24	365.00	1607	372.05	507	382.70	7

355.15	101	365.35	32	372.75	34	383.00	130
355.80	12	365.85	127	373.00	51	383.20	113
357.20	9	366.10	116	373.25	61	384.05	55
357.70	12	366.85	12	374.15	32	384.30	62
359.10	39	367.30	7	377.10	16	385.00	6
359.30	20	369.95	83	378.90	18	385.20	6

Average of 2.490 to 2.542 min.: z94853.D\data.ms

DFTPP

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
387.10	7	392.70	12	402.00	301	407.50	6
387.50	11	393.30	10	402.20	37	408.10	9
388.00	6	393.90	11	402.40	18	408.60	12
388.60	5	394.85	56	402.90	37	409.00	11
389.60	10	396.80	10	403.10	240	409.20	13
389.90	10	397.20	21	403.70	11	409.90	5
390.25	73	397.60	13	404.10	125	410.35	42
390.90	16	398.10	7	404.70	7	410.90	6
391.35	15	398.80	13	405.30	29	411.20	16
391.85	50	400.80	19	405.85	40	413.20	8
392.10	39	401.20	44	406.70	19	414.40	27

Average of 2.490 to 2.542 min.: z94853.D\data.ms

DFTPP

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
414.75	23	424.00	405	429.65	143	437.70	5
415.10	6	424.40	13	430.20	28	441.05	4618
415.60	5	424.90	31	431.30	19	441.30	12
416.95	17	425.10	6	431.80	7	441.70	8
418.30	6	425.80	47	432.50	17	442.10	31481
419.15	30	426.20	25	433.70	7	443.10	5581
420.30	20	426.70	5	434.00	13	443.75	55
420.90	43	427.50	16	434.60	17	444.05	474
421.05	235	428.40	67	435.00	6	444.30	107
421.95	285	428.70	5	435.20	22	444.80	10
423.05	1714	429.10	11	437.00	12	444.90	51

Average of 2.490 to 2.542 min.: z94853.D\data.ms

DFTPP

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
445.05	13	460.40	26	469.60	9	476.60	6
446.15	37	460.70	17	469.90	24	478.00	5
447.30	17	462.90	28	470.20	10	479.00	6
448.50	18	463.20	8	471.50	15	479.80	10
449.15	21	463.70	5	471.90	7	480.70	10
451.15	14	464.80	14	473.00	13	481.10	10
452.20	5	466.60	7	473.40	5	481.50	9
453.00	23	466.90	8	474.30	45	482.50	6
456.90	19	467.20	13	474.70	18	483.20	7
457.70	5	468.10	8	475.10	10	484.60	17
458.45	17	469.20	6	476.40	19	489.40	9

Average of 2.490 to 2.542 min.: z94853.D\data.ms

DFTPP

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
490.20	7	505.90	9	516.70	6	533.10	8
493.45	32	507.40	13	518.70	7	534.40	15
494.20	7	507.90	11	521.00	8	535.60	20
496.20	14	508.60	9	521.30	6	536.50	5
496.50	8	509.70	16	523.40	5	538.20	6
497.90	12	510.80	5	525.45	26	541.60	25
498.30	10	511.30	12	526.15	20	542.50	32
499.90	5	512.10	7	526.90	7	544.40	41
500.50	8	512.95	17	529.70	8	544.90	28
501.00	29	514.30	16	531.40	30	546.15	22
505.70	6	516.10	20	532.70	14	546.70	15

Average of 2.490 to 2.542 min.: z94853.D\data.ms

DFTPP

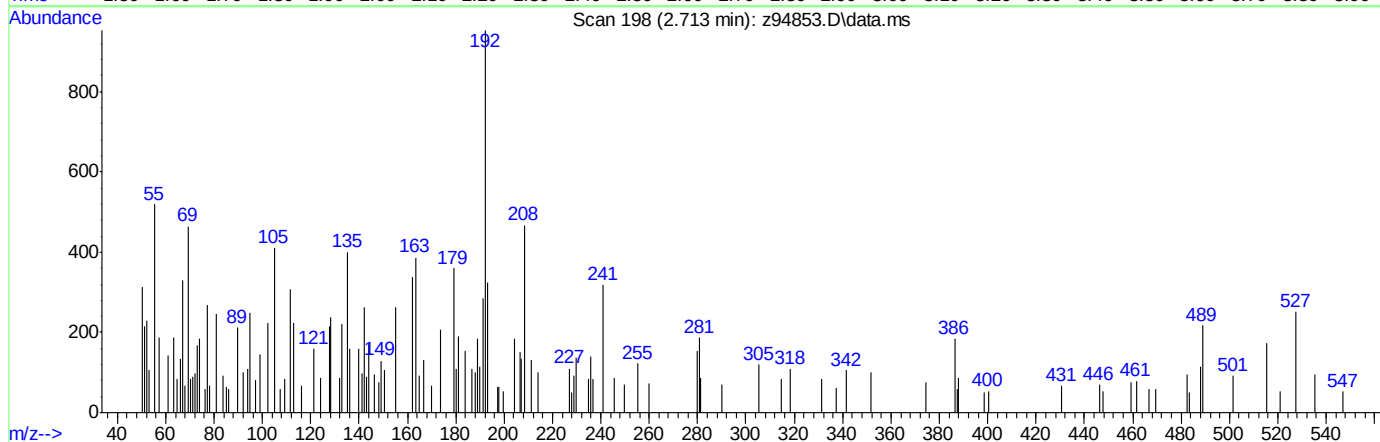
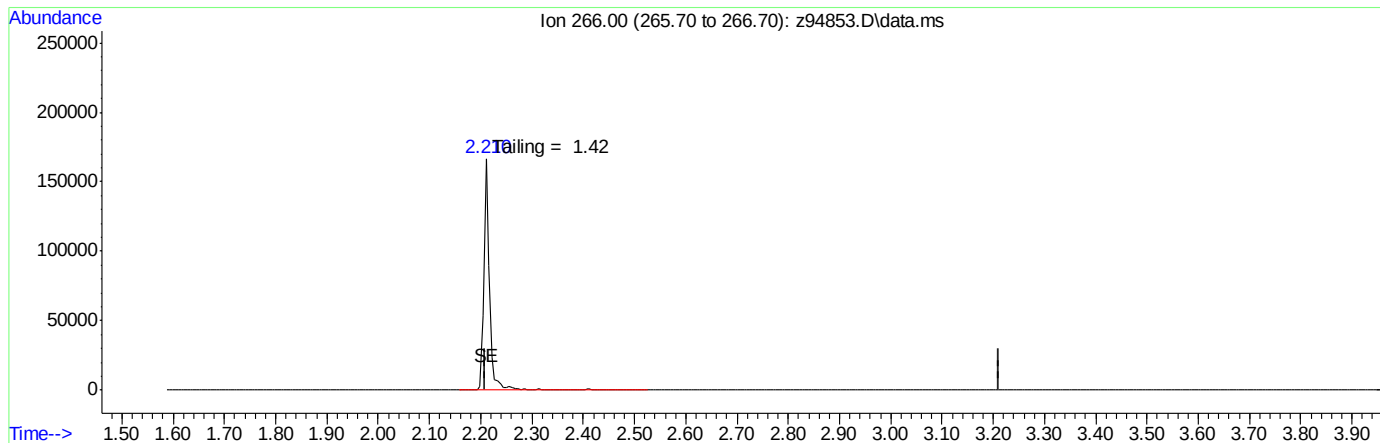
Modified:subtracted
m/z abund.
547.60 6
548.55 44
549.00 26

m/z abund. m/z abund. m/z abund.

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\ez4711\
Data File : z94853.D
Acq On : 26 Aug 2014 10:35 pm
Operator : ashleyv
Sample : DFTPP
Misc : op76603,ez4712
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 26 22:40:22 2014
Quant Method : C:\MSDCHEM\1\METHODS\DFTPPZ.M
Quant Title : column rtx-5msi 30mx0.25mmx0.25um
QLast Update : Tue Jul 22 09:37:58 2014
Response via : Initial Calibration



TIC: z94853.D\data.ms

(1) Pentachlorophenol

2.711min (-2.711) 0.00

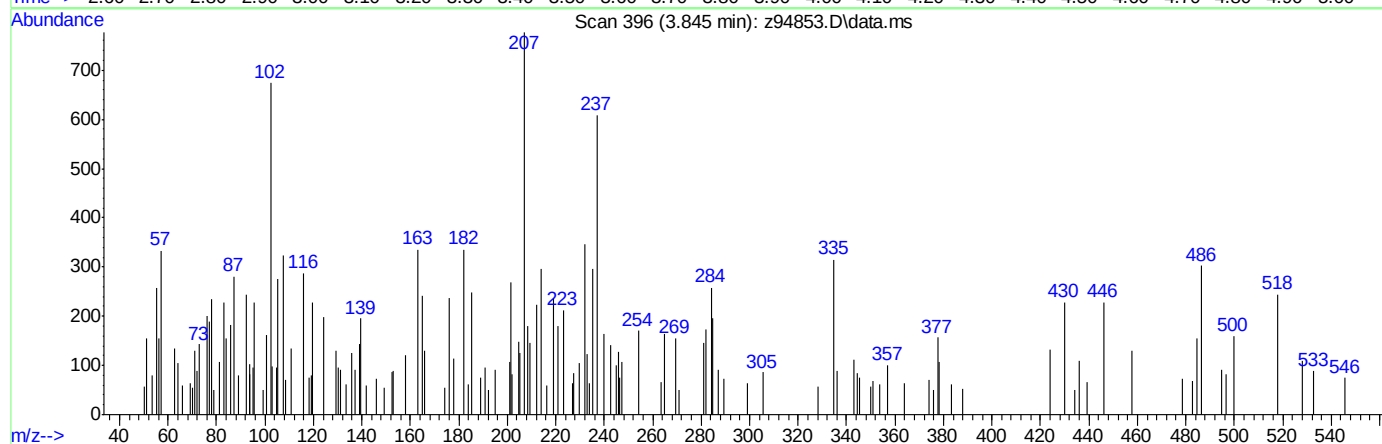
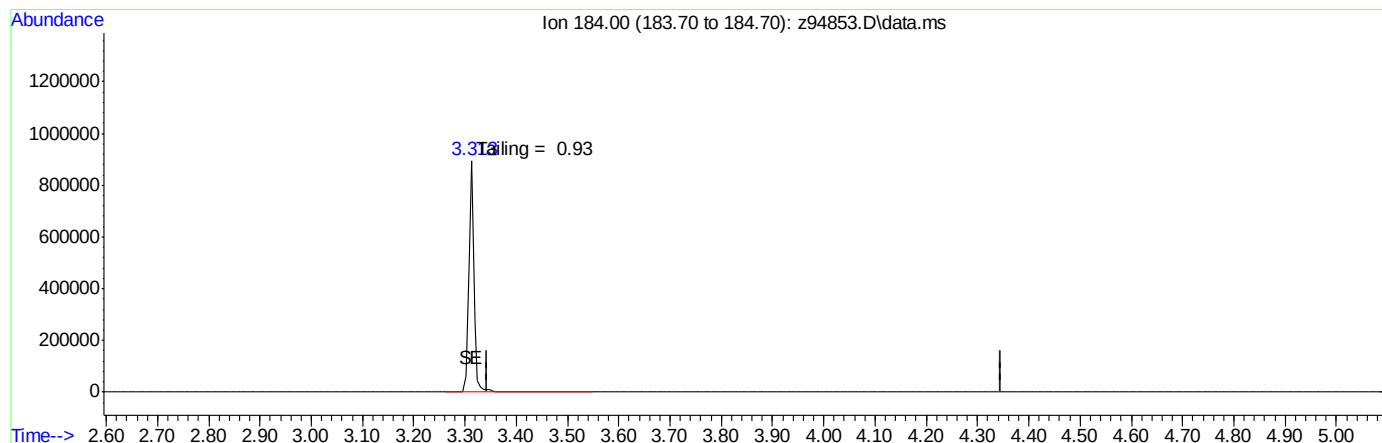
response 0

Ion	Exp%	Act%
266.00	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\ez4711\
Data File : z94853.D
Acq On : 26 Aug 2014 10:35 pm
Operator : ashleyv
Sample : DFTPP
Misc : op76603,ez4712
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 26 22:40:22 2014
Quant Method : C:\MSDCHEM\1\METHODS\DFTPPZ.M
Quant Title : column rtx-5msi 30mx0.25mmx0.25um
QLast Update : Tue Jul 22 09:37:58 2014
Response via : Initial Calibration



(2) Benzidine

3.845min (-3.845) 0.00

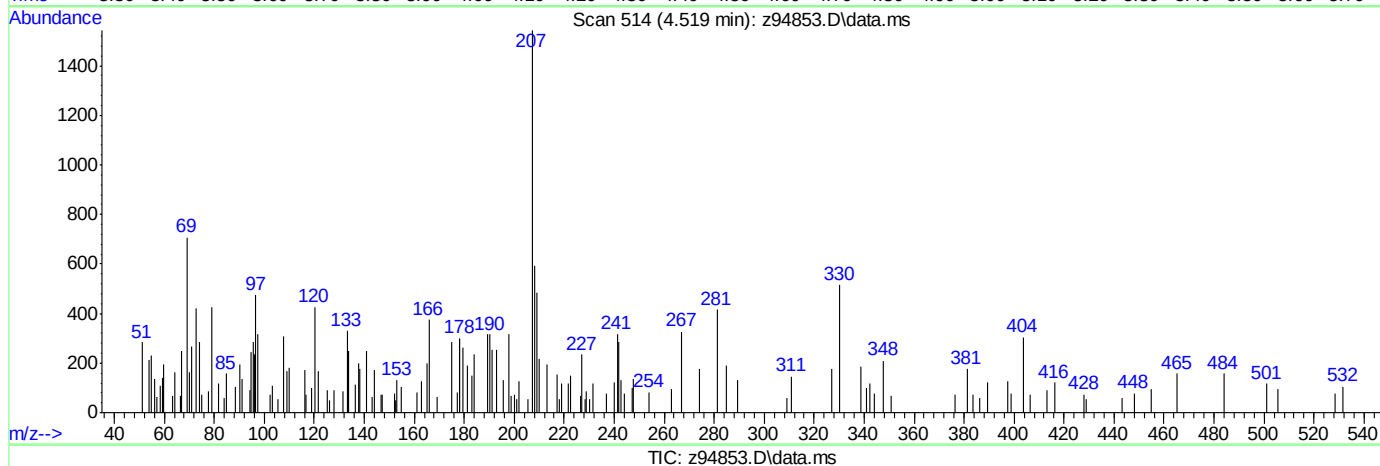
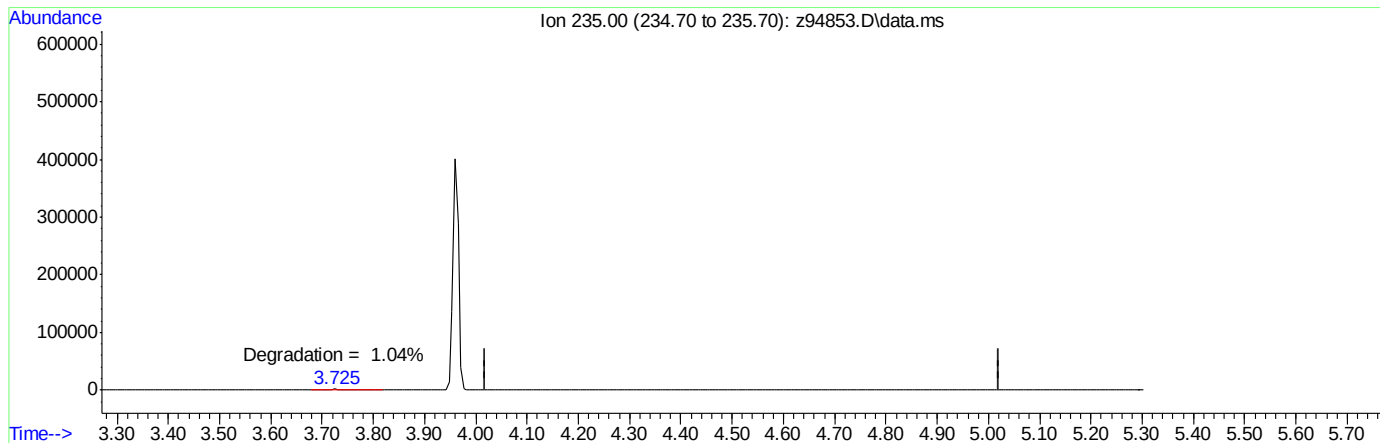
response 0

Ion	Exp%	Act%
184.00	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\ez4711\
Data File : z94853.D
Acq On : 26 Aug 2014 10:35 pm
Operator : ashleyv
Sample : DFTPP
Misc : op76603,ez4712
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 26 22:40:22 2014
Quant Method : C:\MSDCHEM\1\METHODS\DFTPPZ.M
Quant Title : column rtx-5msi 30mx0.25mmx0.25um
QLast Update : Tue Jul 22 09:37:58 2014
Response via : Initial Calibration



(3) PP-DDT

4.520min (-4.520) 0.00

response 0

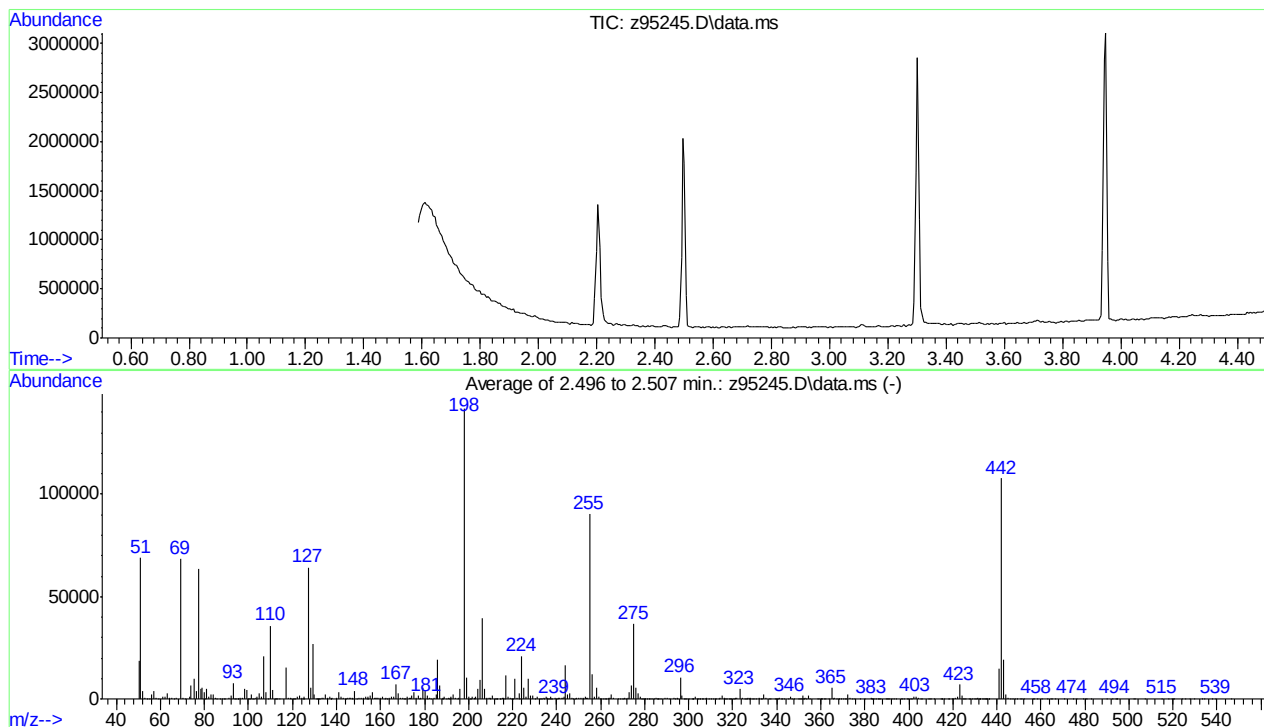
Ion	Exp%	Act%
235.00	100	0.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

DFTPP

Data Path : C:\msdchem\1\DATA\ez4729\
Data File : z95245.D
Acq On : 8 Sep 2014 7:44 pm
Operator : saraw
Sample : dftpp
Misc : op77580,ez4729
ALS Vial : 1 Sample Multiplier: 1

Integration File: events.e

Method : C:\MSDCHEM\1\METHODS\DFTPPZ.M
Title : column rtx-5msi 30mx0.25mmx0.25um
Last Update : Wed Sep 03 10:39:19 2014



AutoFind: Scans 160, 161, 162; Background Corrected with Scan 153

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	48.6	68959	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	48.2	68341	PASS
70	69	0.00	2	1.0	697	PASS
127	198	40	60	45.2	64125	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	141906	PASS
199	198	5	9	7.2	10188	PASS
275	198	10	30	25.7	36482	PASS
365	198	1	100	3.7	5262	PASS
441	443	0.01	100	78.0	14992	PASS
442	198	40	100	76.0	107797	PASS
443	442	17	23	17.8	19229	PASS

Average of 2.496 to 2.507 min.: z95245.D\data.ms

dftpp

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
50.15	18683	62.05	1019	75.10	9873	85.10	576
51.15	68959	63.15	2901	76.20	3905	85.30	273
52.15	3942	63.95	345	77.15	63660	87.00	222
53.10	608	65.05	616	78.15	5136	88.10	163
54.20	221	66.40	41	79.10	5263	89.00	17
55.10	43	67.25	751	80.05	3447	89.20	131
56.10	1982	69.10	68341	80.30	272	91.15	761
57.10	3879	70.15	697	81.10	4816	92.15	1802
58.10	401	71.20	171	82.10	1359	93.10	7733
59.10	174	73.10	1056	83.15	2120	93.80	167
61.05	867	74.05	6727	84.10	2299	94.40	167

Average of 2.496 to 2.507 min.: z95245.D\data.ms

dftpp

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
95.10	50	102.10	51	112.40	183	123.10	1532
95.30	146	103.15	815	113.15	217	124.10	678
96.20	364	104.05	1330	114.00	172	124.50	19
97.20	385	105.10	2513	117.10	15118	125.10	914
98.10	5116	106.15	953	118.05	505	125.30	91
99.10	4302	107.10	20561	119.10	457	127.10	64125
99.85	183	108.10	3417	119.35	2	128.15	5600
100.05	179	109.15	246	120.10	287	129.10	26710
100.80	114	110.10	35890	120.90	263	130.05	2438
101.10	2145	111.15	4654	121.10	18	130.90	46
101.90	99	112.10	207	122.10	1308	131.15	278

Average of 2.496 to 2.507 min.: z95245.D\data.ms

dftpp

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
131.40	185	138.20	337	147.10	694	156.15	3266
131.90	247	140.05	338	148.15	4034	157.20	690
132.10	106	141.10	3258	149.05	185	157.95	613
132.40	174	142.05	1384	150.20	485	158.20	368
133.25	318	143.00	747	151.15	576	159.10	307
134.00	448	144.10	16	152.15	483	160.10	774
135.05	2217	144.30	66	153.05	959	161.05	1131
136.05	750	145.10	376	153.70	150	162.00	145
137.05	1017	146.00	436	154.10	1075	162.30	335
137.40	175	146.20	311	154.50	21	163.00	192
137.70	61	146.90	231	155.10	1798	164.10	340

Average of 2.496 to 2.507 min.: z95245.D\data.ms

dftpp

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
165.10	1284	174.15	1610	182.60	185	191.15	810
166.05	1293	175.10	3157	184.10	349	191.40	161
167.05	7360	176.10	802	185.10	2020	191.90	617
168.10	2670	177.05	1701	186.10	19333	192.05	1356
169.10	798	177.70	47	187.10	6391	193.10	2257
170.20	534	178.00	736	187.90	78	194.05	654
170.50	241	179.05	5304	188.15	776	194.80	201
171.20	161	180.10	3808	188.50	142	195.30	298
172.05	1047	181.05	1583	189.10	1167	196.15	5078
173.15	452	181.30	104	190.15	290	198.10	141906
173.50	331	182.05	621	190.90	155	199.10	10188

Average of 2.496 to 2.507 min.: z95245.D\data.ms

dftpp

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
200.05	900	208.05	524	215.15	303	222.90	59
200.70	125	209.25	609	216.10	363	223.15	2820
201.25	101	209.70	65	216.30	48	224.10	20992
201.60	941	209.95	548	217.10	11478	225.10	5346

202.45	424	211.00	1515	218.10	1256	226.15	1135
202.90	64	211.80	237	219.05	346	227.10	9766
203.15	1186	212.25	295	219.35	182	228.00	1709
204.10	4879	212.60	95	219.80	239	229.10	1853
205.10	9446	213.00	199	220.20	89	230.15	258
206.10	39550	214.20	180	221.10	9708	231.10	1029
207.10	4906	214.50	225	222.20	630	232.10	73

Average of 2.496 to 2.507 min.: z95245.D\data.ms
dftpp

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
232.80	152	238.00	61	246.00	2736	253.90	652
233.00	164	239.20	459	247.10	536	255.10	90357
234.00	523	239.95	275	247.70	139	256.10	12200
234.40	138	240.25	253	248.25	153	257.05	1300
235.10	952	241.00	309	249.10	566	258.10	5344
235.80	464	241.20	339	250.10	492	259.10	909
236.00	15	242.20	833	251.20	456	259.80	22
236.30	64	243.00	644	251.80	131	260.15	290
236.80	63	243.20	1062	252.20	333	261.10	239
237.05	858	244.10	16269	253.00	998	262.00	43
237.40	95	245.10	2330	253.60	362	262.30	92

Average of 2.496 to 2.507 min.: z95245.D\data.ms
dftpp

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
263.10	108	272.30	453	280.30	64	289.00	451
263.55	404	273.10	3113	281.10	6	290.15	326
264.15	468	274.10	6525	282.10	186	291.35	138
265.00	2230	275.05	36482	282.30	51	293.20	547
266.00	541	276.15	5767	283.15	249	294.00	274
268.00	165	277.10	2745	284.05	294	294.80	211
268.70	35	278.05	965	285.10	522	295.05	369
269.90	63	278.70	55	285.50	57	296.10	10559
270.25	174	279.00	39	286.00	58	297.10	1431
270.95	463	279.30	132	286.30	89	297.90	30
271.35	170	280.00	59	287.20	68	298.30	84

Average of 2.496 to 2.507 min.: z95245.D\data.ms
dftpp

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
299.10	77	306.40	51	316.00	313	323.15	4801
299.80	35	307.80	16	316.30	135	324.15	601
301.35	163	308.15	339	316.70	75	325.40	178
301.70	84	309.00	84	317.30	198	326.00	58
302.10	278	310.20	160	318.10	47	326.30	67
303.10	1012	311.00	31	318.90	24	326.95	703
304.00	113	312.10	110	319.20	76	327.20	99
304.15	19	312.30	116	320.10	46	327.70	93
304.90	110	313.80	33	320.60	46	328.15	584
305.10	27	314.05	389	321.20	442	329.00	32
305.80	44	315.05	1903	322.05	376	329.70	77

Average of 2.496 to 2.507 min.: z95245.D\data.ms
dftpp

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
330.40	32	340.20	118	350.25	123	359.20	40
331.90	258	340.90	231	350.80	95	360.00	42
332.25	324	341.15	341	351.10	162	360.20	29
332.85	150	342.20	141	351.70	56	360.75	121
333.20	174	342.40	22	352.05	1647	361.40	138
334.10	2192	343.20	95	352.30	265	362.00	46
335.05	695	345.25	60	353.05	497	363.50	31
336.40	116	346.15	1252	353.50	117	365.10	5262
337.05	78	347.00	187	354.20	1425	365.80	95
339.20	205	348.00	35	355.15	262	366.10	728
339.60	78	349.70	25	358.40	51	367.25	100

Average of 2.496 to 2.507 min.: z95245.D\data.ms

dftpp

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
368.00	21	380.10	73	390.05	187	400.80	45
368.30	91	382.70	59	390.75	168	401.15	184
369.20	17	383.00	368	391.10	147	402.10	1020
370.10	184	383.20	270	392.20	127	403.15	1163
371.00	141	383.60	20	393.10	36	404.15	537
371.20	49	384.10	205	394.20	39	405.20	48
372.10	1948	385.20	62	396.50	29	406.05	56
373.10	581	385.75	12	396.90	73	408.70	17
374.20	87	386.50	83	397.80	21	409.45	68
375.30	88	387.20	59	399.40	48	410.10	46
377.60	24	389.50	86	399.95	127	411.20	63

Average of 2.496 to 2.507 min.: z95245.D\data.ms

dftpp

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
414.50	30	424.10	1643	431.90	197	436.50	31
414.90	46	424.80	96	432.20	64	441.10	14992
415.25	106	425.25	137	432.45	263	442.10	107797
416.00	76	425.60	30	433.20	116	443.10	19229
417.90	168	427.30	62	433.80	77	444.20	2200
418.30	40	427.80	116	434.30	58	445.10	304
419.40	119	428.90	70	434.70	37	446.30	142
420.20	46	429.70	180	435.00	31	446.90	35
421.10	775	430.15	67	435.30	128	448.30	102
422.10	1009	430.70	26	435.60	150	449.30	41
423.10	7100	431.40	310	436.15	162	450.65	76

Average of 2.496 to 2.507 min.: z95245.D\data.ms

dftpp

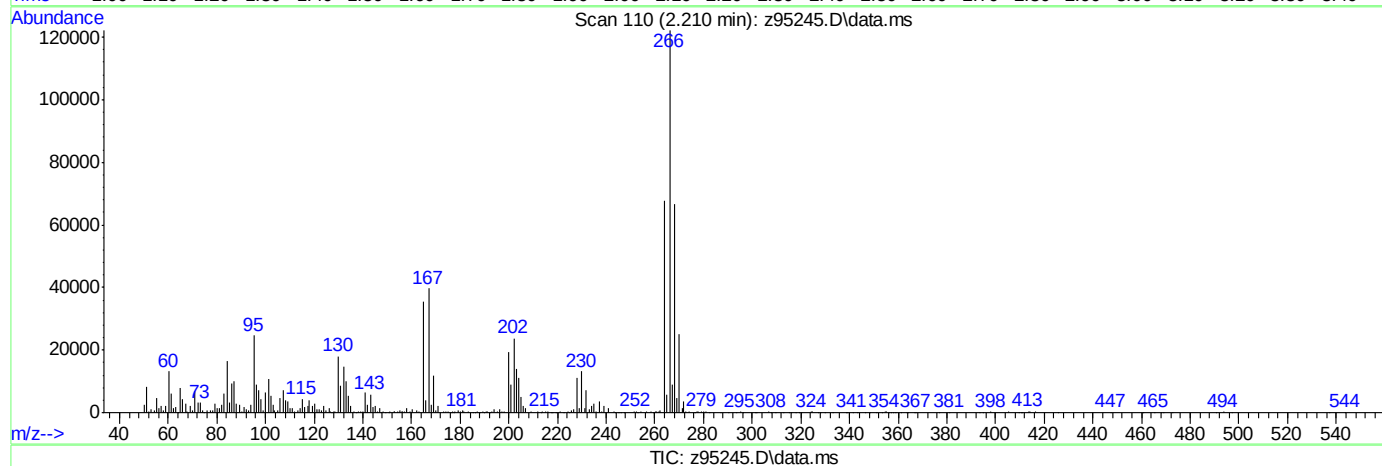
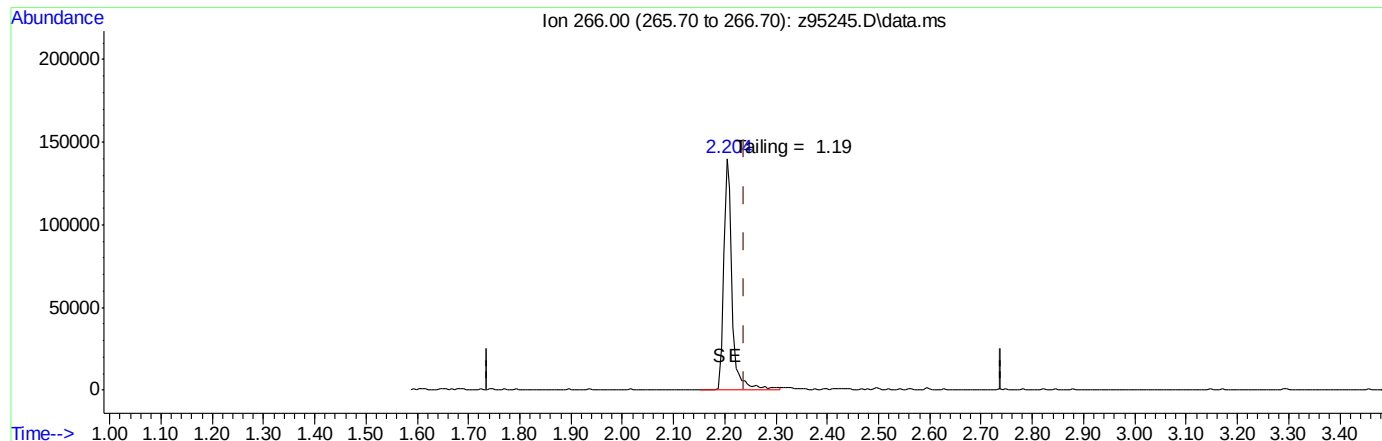
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
451.30	19	474.40	50	501.90	76	529.40	36
452.40	25	476.20	49	502.70	40	533.10	26
456.30	20	479.00	34	507.20	42	534.30	48
457.00	22	480.10	23	514.95	78	537.55	88
458.20	43	480.80	63	517.80	46	539.30	103
460.30	37	482.50	39	519.20	45	546.20	52
463.00	22	489.80	31	519.70	21		
464.50	36	492.20	33	520.60	69		
465.00	33	493.80	65	523.80	29		
466.30	27	494.40	33	525.65	62		
470.50	24	494.70	27	527.60	63		

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\ez4729\
Data File : z95245.D
Acq On : 8 Sep 2014 7:44 pm
Operator : saraw
Sample : dftpp
Misc : op77580,ez4729
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 08 19:49:33 2014
Quant Method : C:\MSDCHEM\1\METHODS\DFTPPZ.M
Quant Title : column rtx-5msi 30mx0.25mmx0.25um
QLast Update : Wed Sep 03 10:39:19 2014
Response via : Initial Calibration



(1) Pentachlorophenol

2.208min (-0.030) 178.64

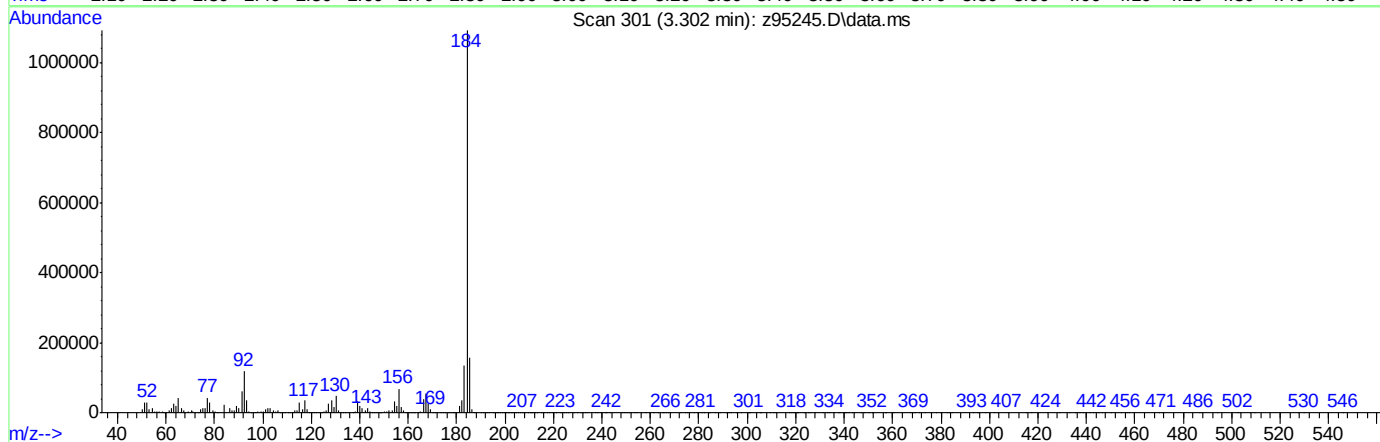
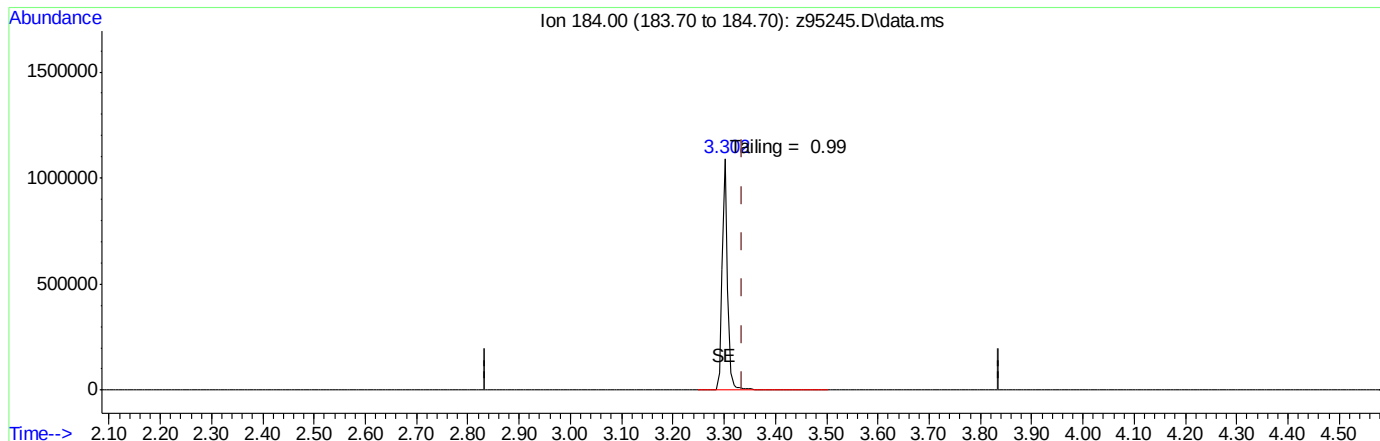
response 1549119

Ion	Exp%	Act%
266.00	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\ez4729\
Data File : z95245.D
Acq On : 8 Sep 2014 7:44 pm
Operator : saraw
Sample : dftpp
Misc : op77580,ez4729
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 08 19:49:33 2014
Quant Method : C:\MSDCHEM\1\METHODS\DFTPPZ.M
Quant Title : column rtx-5msi 30mx0.25mmx0.25um
QLast Update : Wed Sep 03 10:39:19 2014
Response via : Initial Calibration



(2) Benzidine

3.303min (-0.033) 132.76

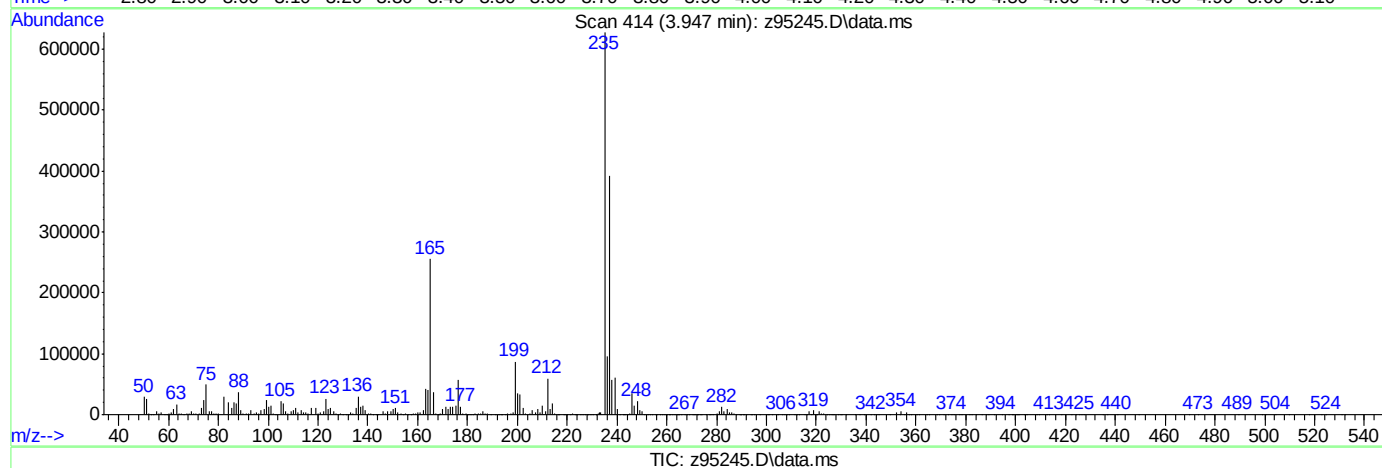
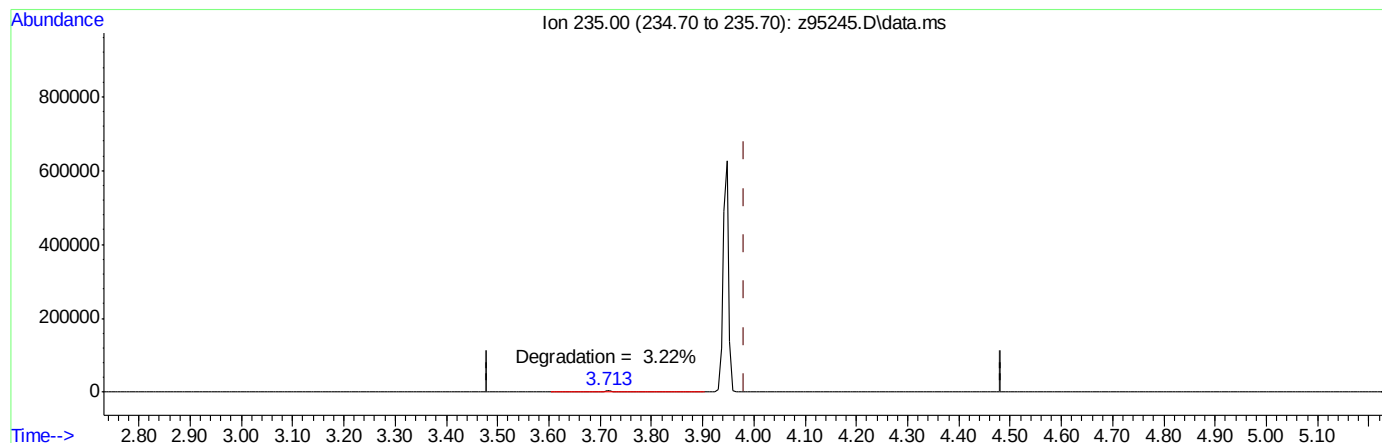
response 8064266

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\ez4729\
Data File : z95245.D
Acq On : 8 Sep 2014 7:44 pm
Operator : saraw
Sample : dftpp
Misc : op77580,ez4729
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 08 19:49:33 2014
Quant Method : C:\MSDCHEM\1\METHODS\DFTPPZ.M
Quant Title : column rtx-5msi 30mx0.25mmx0.25um
QLast Update : Wed Sep 03 10:39:19 2014
Response via : Initial Calibration



(3) PP-DDT

3.948min (-0.034) 189.64

response 4740318

Ion	Exp%	Act%
235.00	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\2P1691\
 Data File : 2p40349.D
 Acq On : 5 Sep 2014 12:56 pm
 Operator : harpreek
 Sample : cc1664-50
 Misc : op77543,e2p1691,1000,,,1,1
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 05 14:38:36 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M2P1691.M
 Quant Title : Semi Volatile Extractables by GC/MS
 QLast Update : Fri Sep 05 14:37:09 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.646	152	593000	40.00	ppb	0.00
24) Naphthalene-d8	5.700	136	2189725	40.00	ppb	0.00
47) Acenaphthene-d10	7.144	164	1289672	40.00	ppb	0.00
69) Phenanthrene-d10	8.438	188	2213676	40.00	ppb	0.00
83) Chrysene-d12	11.733	240	2161932	40.00	ppb	0.00
92) Perylene-d12	13.744	264	1919737	40.00	ppb	0.00
102) 1,4-Dichlorobenzene-d4a	4.646	152	593000	40.00	ppb	0.00
104) Acenaphthene-d10a	7.144	164	1289672	40.00	ppb	0.00
107) Chrysene-d12a	11.733	240	2161932	40.00	ppb	0.00

System Monitoring Compounds

5) 2-Fluorophenol	3.582	112	893492	46.03	ppb	0.00
Spiked Amount	50.000	Range 11 - 58	Recovery =	92.06%#		
8) Phenol-d5	4.400	99	1075038	46.70	ppb	0.00
Spiked Amount	50.000	Range 10 - 59	Recovery =	93.40%#		
25) Nitrobenzene-d5	5.117	82	873089	45.33	ppb	0.00
Spiked Amount	50.000	Range 19 - 61	Recovery =	90.66%#		
51) 2-Fluorobiphenyl	6.587	172	1963625	45.63	ppb	0.00
Spiked Amount	50.000	Range 21 - 58	Recovery =	91.26%#		
73) 2,4,6-Tribromophenol	7.807	330	321716	55.42	ppb	0.00
Spiked Amount	50.000	Range 12 - 68	Recovery =	110.84%#		
85) Terphenyl-d14	10.278	244	2212441	50.37	ppb	0.00
Spiked Amount	50.000	Range 16 - 65	Recovery =	100.74%#		

Target Compounds

						Qvalue
2) 1,4-Dioxane	1.934	88	296203	38.90	ppb	95
3) Pyridine	2.287	79	776734	40.88	ppb	91
4) N-Nitrosodimethylamine	2.260	74	506210	40.99	ppb	92
6) Indene	4.860	116	1514535	45.04	ppb	97
7) Cumene	3.977	105	2334417	46.63	ppb	99
9) Phenol	4.411	94	1284616	46.35	ppb	91
10) Aniline	4.384	93	1127992	37.80	ppb	91
11) bis(2-Chloroethyl)ether	4.437	93	802909	42.68	ppb	90
12) 2-Chlorophenol	4.491	128	1080771	45.55	ppb	94
13) Decane	4.523	57	1001505	34.55	ppb	97
14) 1,3-Dichlorobenzene	4.603	146	1228577	45.64	ppb	98
15) 1,4-Dichlorobenzene	4.662	146	1228068	45.89	ppb	98
16) Benzyl alcohol	4.785	108	612519	47.14	ppb	94
17) 1,2-Dichlorobenzene	4.790	146	1147844	46.08	ppb	99
18) Acetophenone	4.988	105	1233745	45.40	ppb	# 68
19) 2-Methylphenol	4.897	108	751804	43.84	ppb	98
20) 2,2'-oxybis(1-Chloropr...	4.881	121	262875	40.77	ppb	# 65
21) 3&4-Methylphenol	5.026	108	816330	45.79	ppb	96
22) n-Nitroso-di-n-propyla...	4.999	70	585642	43.19	ppb	91
23) Hexachloroethane	5.063	201	455413	48.10	ppb	96
26) Nitrobenzene	5.133	77	889789	43.73	ppb	89
27) Quinoline	6.015	129	1811212	46.39	ppb	99
28) Isophorone	5.331	82	1514828	42.62	ppb	98
29) 2-Nitrophenol	5.395	139	618604	52.14	ppb	82

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P1691\
 Data File : 2p40349.D
 Acq On : 5 Sep 2014 12:56 pm
 Operator : harpreek
 Sample : cc1664-50
 Misc : op77543,e2p1691,1000,,,1,1
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 05 14:38:36 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M2P1691.M
 Quant Title : Semi Volatile Extractables by GC/MS
 QLast Update : Fri Sep 05 14:37:09 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
30) 2,4-Dimethylphenol	5.448	107	882482	48.18	ppb	99
31) Benzoic acid	5.603	105	692421	51.79	ppb	99
32) bis(2-Chloroethoxy)met...	5.507	93	938530	42.82	ppb	98
33) 2,4-Dichlorophenol	5.609	162	922462	50.06	ppb	98
34) 2,6-Dichlorophenol	5.785	162	888413	49.08	ppb	97
35) 1,3,5-Trichlorobenzene	5.400	180	1008075	48.54	ppb	99
36) 1,2,4-Trichlorobenzene	5.657	180	1000812	48.11	ppb	98
37) 1,2,3-Trichlorobenzene	5.839	180	896772	47.21	ppb	99
38) Naphthalene	5.716	128	2864342	46.13	ppb	100
39) 4-Chloroaniline	5.774	127	1126311	43.61	ppb	98
40) 2,3-Dichloroaniline	6.523	161	1027640	47.89	ppb	98
41) Caprolactam	6.090	113	255622m	43.97	ppb	
42) Hexachlorobutadiene	5.823	225	556999	50.75	ppb	99
43) 4-Chloro-3-methylphenol	6.208	107	867400	48.26	ppb	100
44) 2-Methylnaphthalene	6.288	141	1821539	48.26	ppb	96
45) 1-Methylnaphthalene	6.368	141	1682100	48.29	ppb	99
46) Dimethylnaphthalene	6.801	156	1665075	46.87	ppb	99
48) Hexachlorocyclopentadiene	6.416	237	918751	75.39	ppb	99
49) 2,4,6-Trichlorophenol	6.539	196	640614	48.24	ppb	99
50) 2,4,5-Trichlorophenol	6.582	196	624496	47.45	ppb	99
52) 2-Chloronaphthalene	6.689	162	1826239	44.01	ppb	99
53) Biphenyl	6.673	154	2336935	45.20	ppb	99
54) 2-Nitroaniline	6.785	65	566508	43.64	ppb	85
55) Dimethylphthalate	6.930	163	2121232	46.75	ppb	99
56) Acenaphthylene	7.026	152	3100534	46.73	ppb	100
57) 2,6-Dinitrotoluene	6.983	165	492113	49.13	ppb	98
58) 3-Nitroaniline	7.128	138	576566	45.88	ppb	90
59) Acenaphthene	7.170	153	1963221	44.41	ppb	96
60) 2,4-Dinitrophenol	7.224	184	614348	108.85	ppb	# 92
61) 4-Nitrophenol	7.310	109	283088	46.71	ppb	# 1
62) Dibenzofuran	7.315	168	2704948	47.40	ppb	94
63) 2,4-Dinitrotoluene	7.326	165	657895	48.65	ppb	82
64) 2,3,4,6-Tetrachlorophenol	7.433	232	580052	49.47	ppb	92
65) Diethylphthalate	7.507	149	2108774	46.20	ppb	99
66) Fluorene	7.598	166	2191640	48.45	ppb	100
67) 4-Chlorophenyl-phenyle...	7.593	204	1041733	50.04	ppb	95
68) 4-Nitroaniline	7.641	138	523074	41.24	ppb	97
70) 4,6-Dinitro-2-methylph...	7.668	198	430746	53.89	ppb	95
71) n-Nitrosodiphenylamine	7.700	169	1443584	44.51	ppb	98
72) 1,2-Diphenylhydrazine	7.727	77	1738784	39.24	ppb	97
74) 4-Bromophenyl-phenylether	8.010	248	636233	50.12	ppb	100
75) Hexachlorobenzene	8.080	284	770953	50.41	ppb	96
76) Pentachlorophenol	8.278	266	848427	94.31	ppb	99
77) Phenanthrene	8.459	178	3147234	42.78	ppb	99
78) Anthracene	8.513	178	3200989	44.97	ppb	99
79) Carbazole	8.684	167	2800861	45.24	ppb	99
80) Di-n-butylphthalate	9.053	149	3820328	48.21	ppb	100
81) Fluoranthene	9.781	202	3877377	48.30	ppb	99
82) Octadecane	8.331	43	808121	38.06	ppb	93
84) Pyrene	10.059	202	3885944	47.26	ppb	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P1691\
 Data File : 2p40349.D
 Acq On : 5 Sep 2014 12:56 pm
 Operator : harpreek
 Sample : cc1664-50
 Misc : op77543,e2p1691,1000,,,1,1
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 05 14:38:36 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M2P1691.M
 Quant Title : Semi Volatile Extractables by GC/MS
 QLast Update : Fri Sep 05 14:37:09 2014
 Response via : Initial Calibration

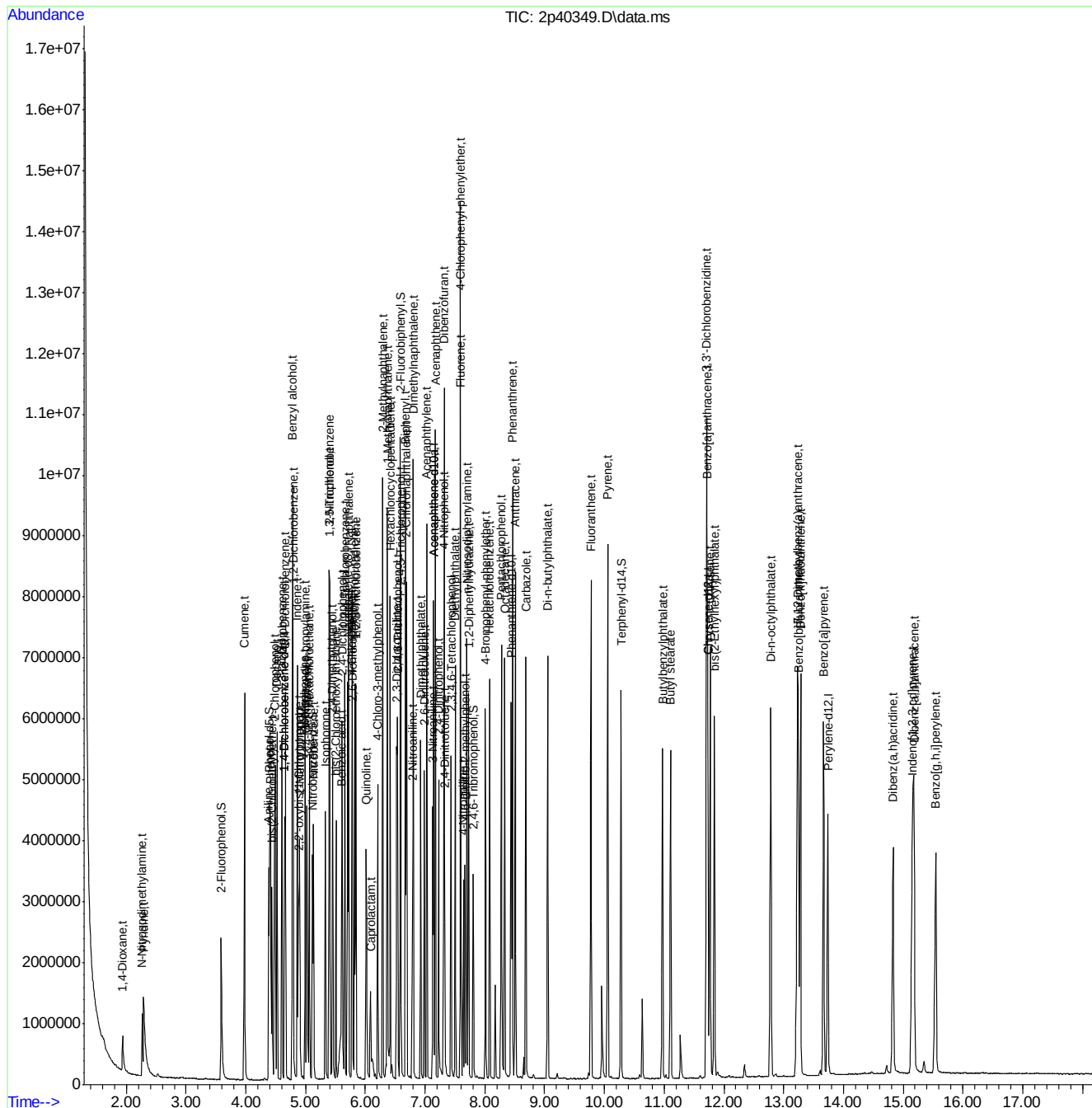
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
86) Butylbenzylphthalate	10.973	149	1735004	50.75	ppb	95
87) Butyl stearate	11.107	56	964761	41.63	ppb	83
88) Benzo[a]anthracene	11.717	228	3376963	48.25	ppb	99
89) 3,3'-Dichlorobenzidine	11.711	252	1227680	55.78	ppb	97
90) Chrysene	11.770	228	2896942	44.96	ppb	99
91) bis(2-Ethylhexyl)phtha...	11.840	149	2192365	50.61	ppb	99
93) Di-n-octylphthalate	12.781	149	4149969	53.94	ppb	98
94) Benzo[b]fluoranthene	13.247	252	3385915	45.97	ppb	97
95) Benzo[k]fluoranthene	13.284	252	2935921	43.47	ppb	99
96) Benzo[a]pyrene	13.669	252	2884338	47.29	ppb	99
97) Indeno[1,2,3-cd]pyrene	15.156	276	3279036	57.43	ppb	97
98) Dibenz(a,h)acridine	14.830	279	2219344	48.50	ppb	99
99) Dibenz[a,h]anthracene	15.183	278	2640473	46.59	ppb	96
100) 7,12-Dimethylbenz(a)an...	13.230	256	1427050	59.08	ppb	98
101) Benzo[g,h,i]perylene	15.546	276	2540682	43.34	ppb	96

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P1691\
Data File : 2p40349.D
Acq On : 5 Sep 2014 12:56 pm
Operator : harpreek
Sample : cc1664-50
Misc : op77543,e2p1691,1000,,,1,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 05 14:38:36 2014
Quant Method : C:\MSDCHEM\1\METHODS\M2P1691.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri Sep 05 14:37:09 2014
Response via : Initial Calibration



Manual Integration Approval Summary

Sample Number:

E2P1691-IC1691

Lab FileID:

2P40349.D

Injection Time:

09/05/14 12:56

Method:

SW846 8270D

Analyst approved:

09/05/14 16:56 Kristi Schollenberger

Supervisor approved:

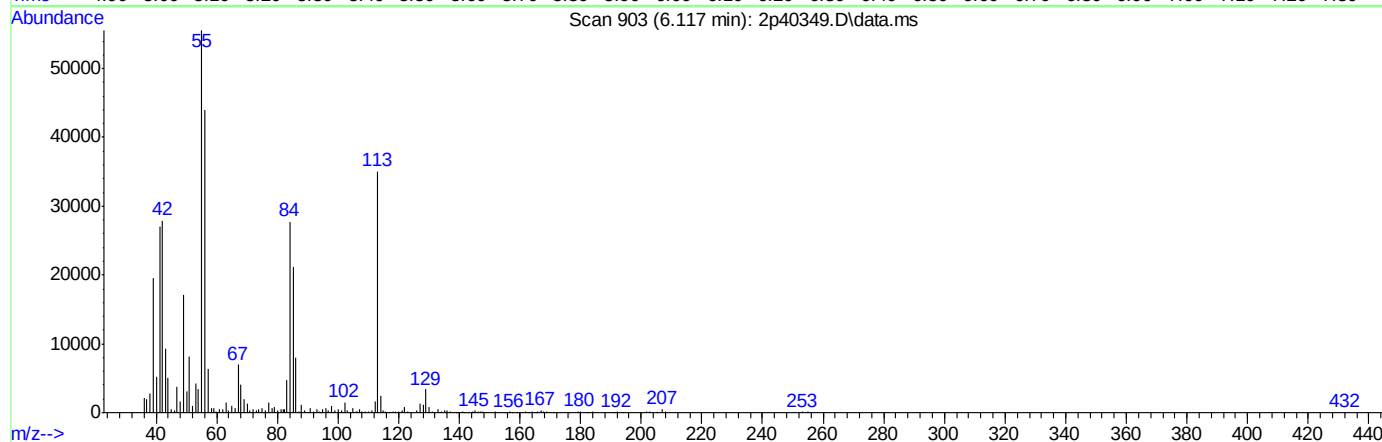
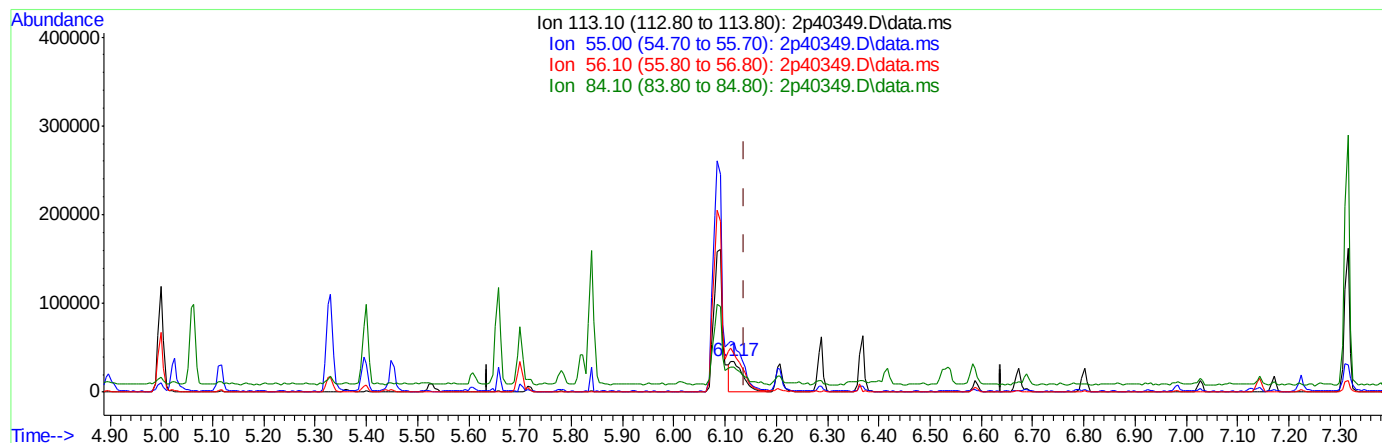
09/08/14 09:30 Nina Pandya

Parameter	CAS	Sig#	R.T. (min.)	Reason
Caprolactam	105-60-2		6.09	Split peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2P1691\
Data File : 2p40349.D
Acq On : 5 Sep 2014 12:56 pm
Operator : harpreek
Sample : cc1664-50
Misc : op77543,e2p1691,1000,,,1,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 05 14:35:20 2014
Quant Method : C:\MSDCHEM\1\METHODS\M2P1691.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri Sep 05 13:00:28 2014
Response via : Initial Calibration



TIC: 2p40349.D\data.ms

(41) Caprolactam (t)

6.117min (-0.021) 10.49ppb

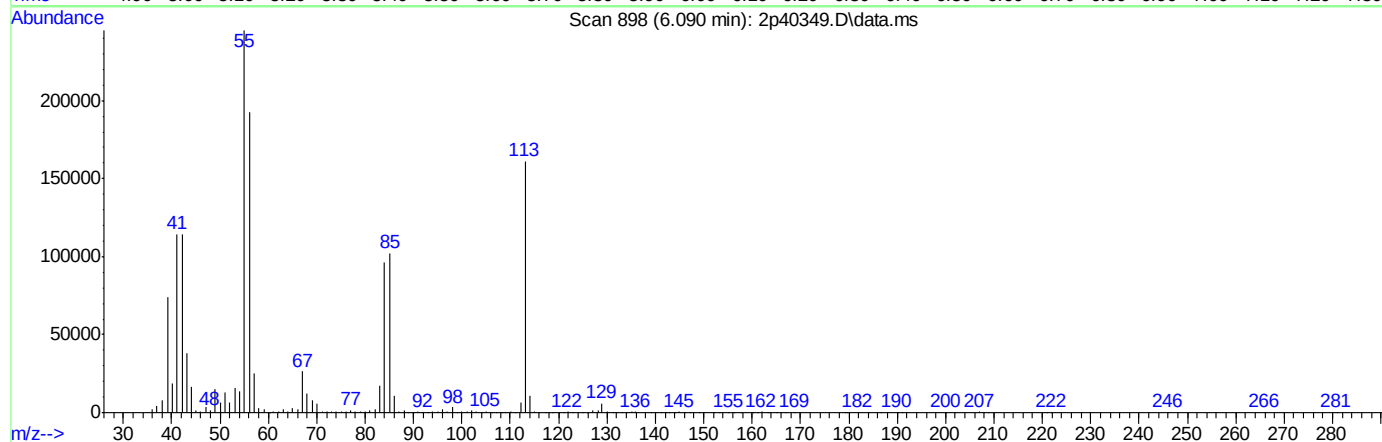
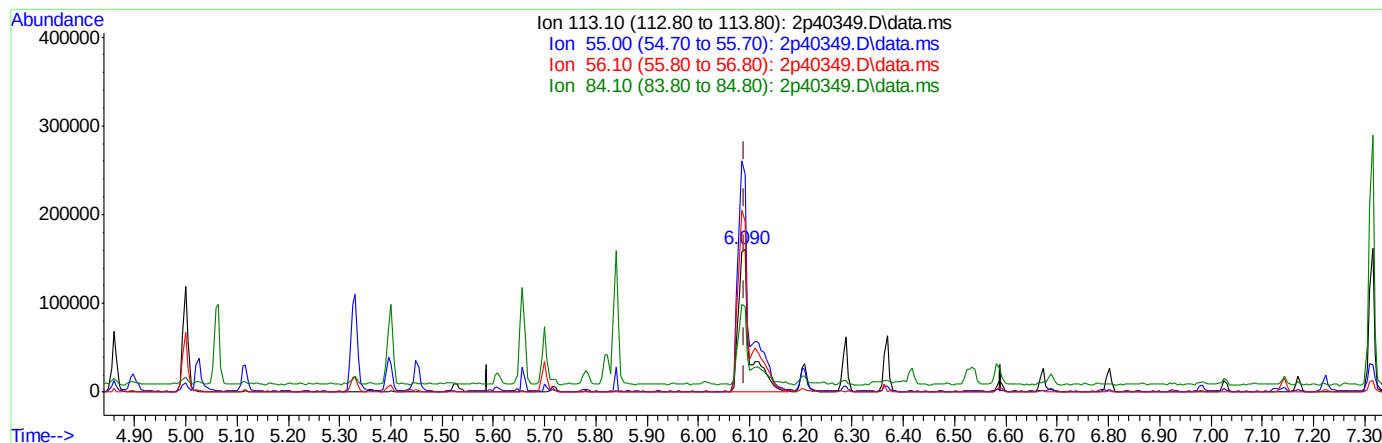
response 61000

Ion	Exp%	Act%
113.10	100	100
55.00	202.60	137.06#
56.10	149.50	102.68#
84.10	58.00	53.22

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2P1691\
Data File : 2p40349.D
Acq On : 5 Sep 2014 12:56 pm
Operator : harpreek
Sample : cc1664-50
Misc : op77543,e2p1691,1000,,,1,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 05 14:38:36 2014
Quant Method : C:\MSDCHEM\1\METHODS\M2P1691.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri Sep 05 14:37:09 2014
Response via : Initial Calibration



(41) Caprolactam (t)

6.090min (0.000) 43.97ppb m

response 255622

Ion	Exp%	Act%
113.10	100	100
55.00	202.60	152.19#
56.10	149.50	119.63
84.10	58.00	59.75

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P1691\
 Data File : 2p40350.D
 Acq On : 5 Sep 2014 1:25 pm
 Operator : harpreek
 Sample : ic1691-100
 Misc : op77543,e2p1691,1000,,,1,1
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 05 14:39:59 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M2P1691.M
 Quant Title : Semi Volatile Extractables by GC/MS
 QLast Update : Fri Sep 05 14:37:09 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.646	152	533222	40.00	ppb	0.00
24) Naphthalene-d8	5.699	136	1958302	40.00	ppb	0.00
47) Acenaphthene-d10	7.143	164	1112759	40.00	ppb	0.00
69) Phenanthrene-d10	8.438	188	1965634	40.00	ppb	0.00
83) Chrysene-d12	11.738	240	1904151	40.00	ppb	0.00
92) Perylene-d12	13.749	264	1728179	40.00	ppb	0.00
102) 1,4-Dichlorobenzene-d4a	4.646	152	533222	40.00	ppb	0.00
104) Acenaphthene-d10a	7.143	164	1112759	40.00	ppb	0.00
107) Chrysene-d12a	11.738	240	1904151	40.00	ppb	0.00

System Monitoring Compounds

5) 2-Fluorophenol	3.581	112	1665452	95.41	ppb	0.00
Spiked Amount 50.000	Range 11 - 58		Recovery =	190.82%#		
8) Phenol-d5	4.400	99	1928258	93.16	ppb	0.00
Spiked Amount 50.000	Range 10 - 59		Recovery =	186.32%#		
25) Nitrobenzene-d5	5.116	82	1556055	90.33	ppb	0.00
Spiked Amount 50.000	Range 19 - 61		Recovery =	180.66%#		
51) 2-Fluorobiphenyl	6.593	172	3432542	92.44	ppb	0.00
Spiked Amount 50.000	Range 21 - 58		Recovery =	184.88%#		
73) 2,4,6-Tribromophenol	7.812	330	625108	121.28	ppb	0.00
Spiked Amount 50.000	Range 12 - 68		Recovery =	242.56%#		
85) Terphenyl-d14	10.283	244	4158955	107.50	ppb	0.00
Spiked Amount 50.000	Range 16 - 65		Recovery =	215.00%#		

Target Compounds

						Qvalue
2) 1,4-Dioxane	1.934	88	556256	81.24	ppb	92
3) Pyridine	2.287	79	1489543	87.19	ppb	89
4) N-Nitrosodimethylamine	2.260	74	820318	73.88	ppb	96
6) Indene	4.860	116	2652704	87.73	ppb	98
7) Cumene	3.977	105	4094991	90.96	ppb	99
9) Phenol	4.410	94	1971777	79.12	ppb	82
10) Aniline	4.384	93	2429378	90.53	ppb	90
11) bis(2-Chloroethyl)ether	4.442	93	1272930	75.24	ppb	86
12) 2-Chlorophenol	4.491	128	1750927	82.06	ppb	94
13) Decane	4.523	57	1652006	63.37	ppb	95
14) 1,3-Dichlorobenzene	4.603	146	2005921	82.87	ppb	99
15) 1,4-Dichlorobenzene	4.662	146	2006484	83.38	ppb	98
16) Benzyl alcohol	4.790	108	1049249	89.80	ppb	90
17) 1,2-Dichlorobenzene	4.790	146	1839148	82.11	ppb	98
18) Acetophenone	4.999	105	2175774	89.04	ppb	92
19) 2-Methylphenol	4.897	108	1341790	87.01	ppb	97
20) 2,2'-oxybis(1-Chloropr...	4.886	121	423329	73.01	ppb	# 56
21) 3&4-Methylphenol	5.031	108	1480030	92.33	ppb	100
22) n-Nitroso-di-n-propyla...	5.004	70	925930	75.94	ppb	90
23) Hexachloroethane	5.063	201	759872	89.26	ppb	92
26) Nitrobenzene	5.132	77	1472335	80.90	ppb	96
27) Quinoline	6.015	129	3232983	92.59	ppb	99
28) Isophorone	5.336	82	2558531	80.50	ppb	99
29) 2-Nitrophenol	5.400	139	1032061	97.26	ppb	63

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P1691\
 Data File : 2p40350.D
 Acq On : 5 Sep 2014 1:25 pm
 Operator : harpreek
 Sample : ic1691-100
 Misc : op77543,e2p1691,1000,,,1,1
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 05 14:39:59 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M2P1691.M
 Quant Title : Semi Volatile Extractables by GC/MS
 QLast Update : Fri Sep 05 14:37:09 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
30) 2,4-Dimethylphenol	5.453	107	1507622	92.04	ppb	94
31) Benzoic acid	5.630	105	1109585	92.80	ppb	98
32) bis(2-Chloroethoxy)met...	5.512	93	1581295	80.68	ppb	99
33) 2,4-Dichlorophenol	5.608	162	1534886	93.13	ppb	99
34) 2,6-Dichlorophenol	5.790	162	1485568	91.77	ppb	97
35) 1,3,5-Trichlorobenzene	5.400	180	1780153	95.85	ppb	100
36) 1,2,4-Trichlorobenzene	5.657	180	1646049	88.47	ppb	99
37) 1,2,3-Trichlorobenzene	5.844	180	1574416	92.68	ppb	97
38) Naphthalene	5.721	128	4964706	89.40	ppb	100
39) 4-Chloroaniline	5.780	127	2161300	93.57	ppb	96
40) 2,3-Dichloroaniline	6.528	161	1866197	97.25	ppb	95
41) Caprolactam	6.117	113	449962m	86.54	ppb	
42) Hexachlorobutadiene	5.822	225	926280	94.36	ppb	98
43) 4-Chloro-3-methylphenol	6.213	107	1407363	87.55	ppb	100
44) 2-Methylnaphthalene	6.288	141	3223214	95.48	ppb	97
45) 1-Methylnaphthalene	6.368	141	2936442	94.25	ppb	99
46) Dimethylnaphthalene	6.806	156	2920699	91.93	ppb	97
48) Hexachlorocyclopentadiene	6.421	237	1744024	165.85	ppb	99
49) 2,4,6-Trichlorophenol	6.544	196	1057918	92.32	ppb	99
50) 2,4,5-Trichlorophenol	6.587	196	1121076	98.73	ppb	100
52) 2-Chloronaphthalene	6.694	162	3013554	84.17	ppb	98
53) Biphenyl	6.678	154	4119835	92.35	ppb	98
54) 2-Nitroaniline	6.796	65	1021034	91.17	ppb	# 67
55) Dimethylphthalate	6.930	163	3533330	90.24	ppb	99
56) Acenaphthylene	7.031	152	5401402	94.35	ppb	99
57) 2,6-Dinitrotoluene	6.988	165	834549	96.55	ppb	99
58) 3-Nitroaniline	7.133	138	1049140	96.75	ppb	91
59) Acenaphthene	7.176	153	3458017	90.67	ppb	95
60) 2,4-Dinitrophenol	7.234	184	1142774	234.66	ppb	82
61) 4-Nitrophenol	7.315	109	448240	85.72	ppb	# 1
62) Dibenzofuran	7.320	168	4746984	96.40	ppb	94
63) 2,4-Dinitrotoluene	7.331	165	1084042	92.91	ppb	80
64) 2,3,4,6-Tetrachlorophenol	7.438	232	998291	98.67	ppb	88
65) Diethylphthalate	7.513	149	3421205	86.86	ppb	99
66) Fluorene	7.603	166	3682384	94.35	ppb	99
67) 4-Chlorophenyl-phenyle...	7.593	204	1682882	93.70	ppb	100
68) 4-Nitroaniline	7.652	138	976923	89.27	ppb	98
70) 4,6-Dinitro-2-methylph...	7.678	198	736036	103.71	ppb	96
71) n-Nitrosodiphenylamine	7.705	169	2441285	84.78	ppb	98
72) 1,2-Diphenylhydrazine	7.732	77	2848181	72.38	ppb	94
74) 4-Bromophenyl-phenylether	8.015	248	1110442	98.52	ppb	91
75) Hexachlorobenzene	8.085	284	1289239	94.94	ppb	100
76) Pentachlorophenol	8.283	266	1575212	197.20	ppb	99
77) Phenanthrene	8.465	178	5623825	86.10	ppb	98
78) Anthracene	8.518	178	5667209	89.66	ppb	98
79) Carbazole	8.689	167	5052357	91.90	ppb	99
80) Di-n-butylphthalate	9.058	149	6311949	89.69	ppb	100
81) Fluoranthene	9.786	202	6869067	96.36	ppb	99
82) Octadecane	8.336	43	1347283	71.46	ppb	93
84) Pyrene	10.069	202	6690162	92.38	ppb	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P1691\
Data File : 2p40350.D
Acq On : 5 Sep 2014 1:25 pm
Operator : harpreek
Sample : ic1691-100
Misc : op77543,e2p1691,1000,,,1,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 05 14:39:59 2014
Quant Method : C:\MSDCHEM\1\METHODS\M2P1691.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri Sep 05 14:37:09 2014
Response via : Initial Calibration

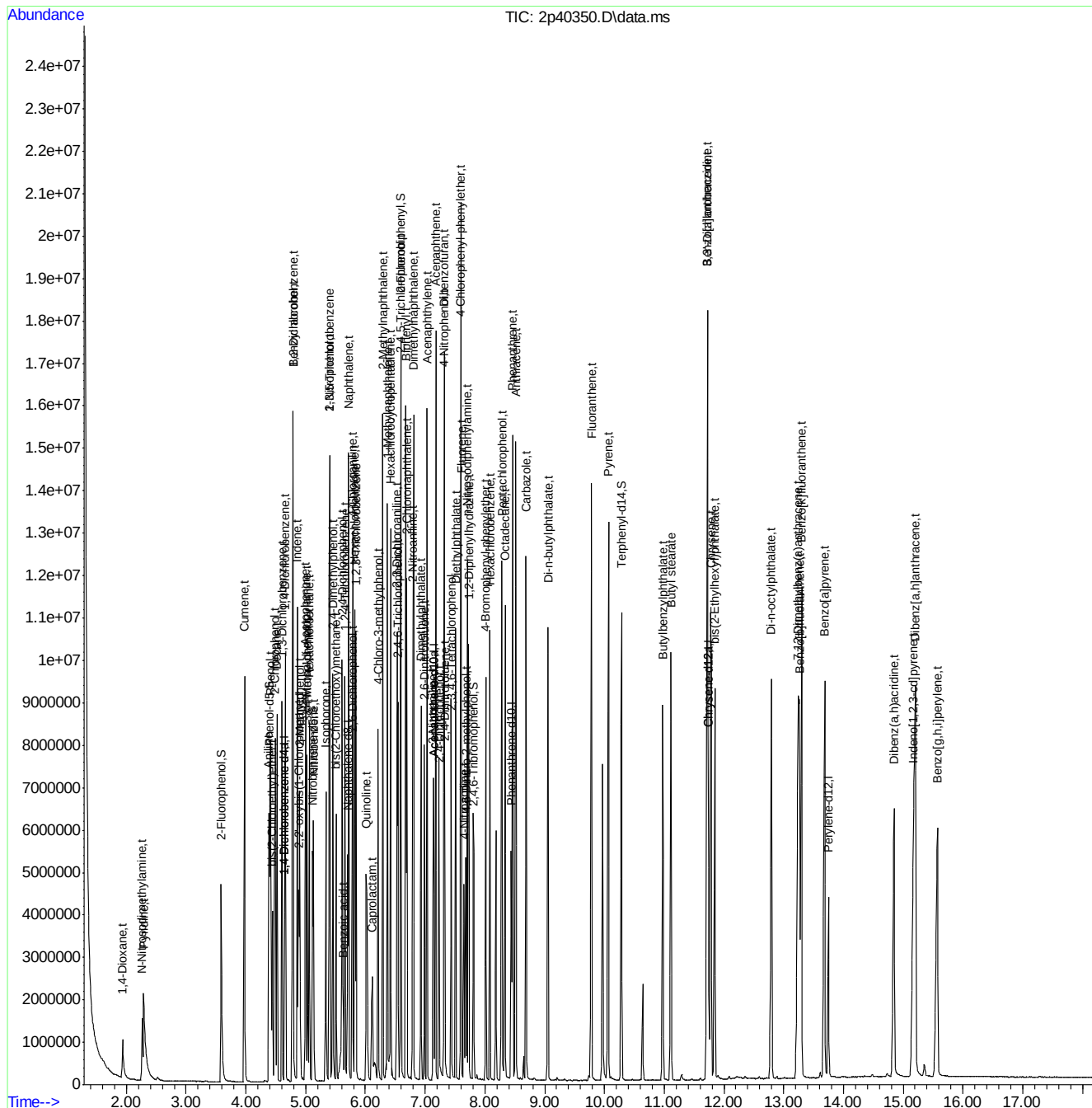
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
86) Butylbenzylphthalate	10.978	149	2860025	94.99	ppb	93
87) Butyl stearate	11.112	56	1818444	89.09	ppb	79
88) Benzo[a]anthracene	11.722	228	6075317	98.55	ppb	99
89) 3,3'-Dichlorobenzidine	11.722	252	2283513	117.80	ppb	96
90) Chrysene	11.781	228	5174117	91.17	ppb	99
91) bis(2-Ethylhexyl)phtha...	11.845	149	3560601	93.33	ppb	99
93) Di-n-octylphthalate	12.792	149	6828800	98.60	ppb	98
94) Benzo[b]fluoranthene	13.268	252	6236895	94.05	ppb	94
95) Benzo[k]fluoranthene	13.300	252	5202824	85.57	ppb	99
96) Benzo[a]pyrene	13.685	252	5424558	98.79	ppb	98
97) Indeno[1,2,3-cd]pyrene	15.177	276	6151041	119.68	ppb	97
98) Dibenz(a,h)acridine	14.845	279	4153282	100.83	ppb	100
99) Dibenz[a,h]anthracene	15.204	278	4964164	97.30	ppb	98
100) 7,12-Dimethylbenz(a)an...	13.241	256	2668550	122.72	ppb	97
101) Benzo[g,h,i]perylene	15.573	276	4784681	90.67	ppb	96

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P1691\
Data File : 2p40350.D
Acq On : 5 Sep 2014 1:25 pm
Operator : harpreek
Sample : ic1691-100
Misc : op77543,e2p1691,1000,,,1,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 05 14:39:59 2014
Quant Method : C:\MSDCHEM\1\METHODS\M2P1691.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri Sep 05 14:37:09 2014
Response via : Initial Calibration



M2P1691.M Fri Sep 05 16:34:22 2014 RPT1

Page: 4

9.6.2

Manual Integration Approval Summary

Sample Number: E2P1691-IC1691

Method: SW846 8270D

Lab FileID: 2P40350.D

Analyst approved: 09/05/14 16:56 Kristi Schollenberger

Injection Time: 09/05/14 13:25

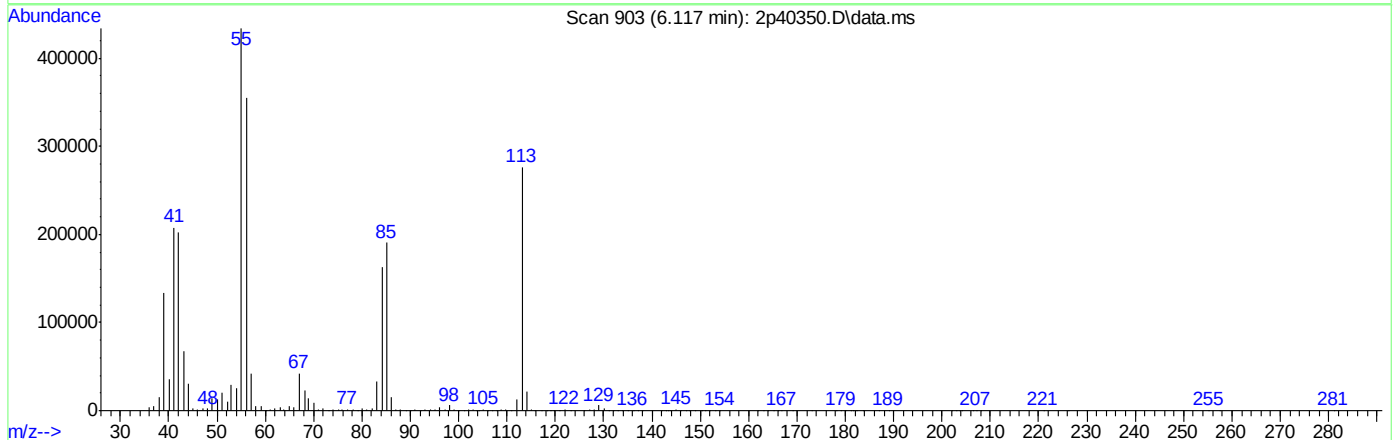
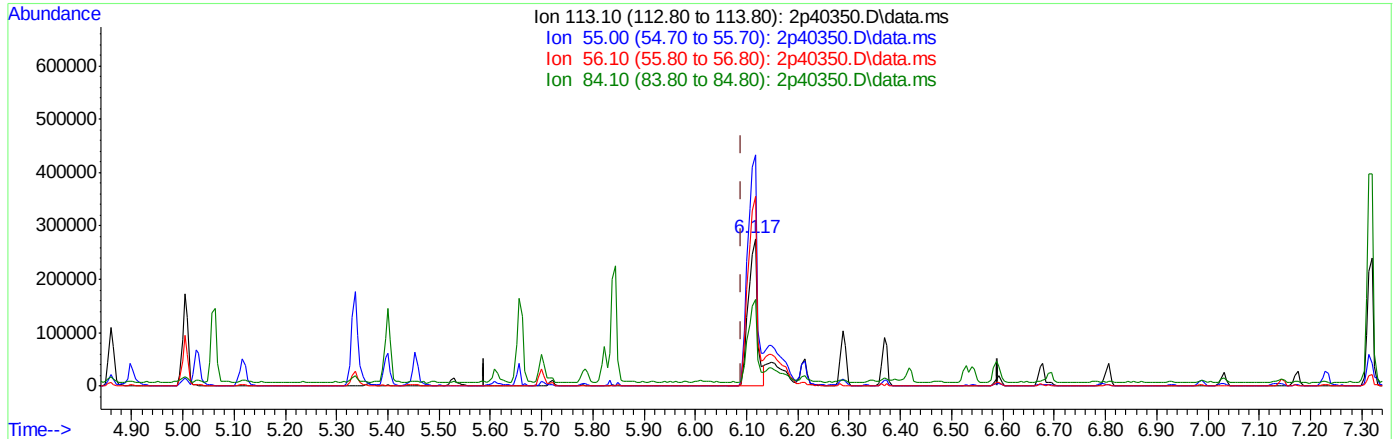
Supervisor approved: 09/08/14 09:30 Nina Pandya

Parameter	CAS	Sig#	R.T. (min.)	Reason
Caprolactam	105-60-2		6.12	Split peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2P1691\
Data File : 2p40350.D
Acq On : 5 Sep 2014 1:25 pm
Operator : harpreek
Sample : ic1691-100
Misc : op77543,e2p1691,1000,,,1,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 05 14:38:45 2014
Quant Method : C:\MSDCHEM\1\METHODS\M2P1691.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri Sep 05 14:37:09 2014
Response via : Initial Calibration



(41) Caprolactam (t)

6.117min (+0.026) 64.96ppb

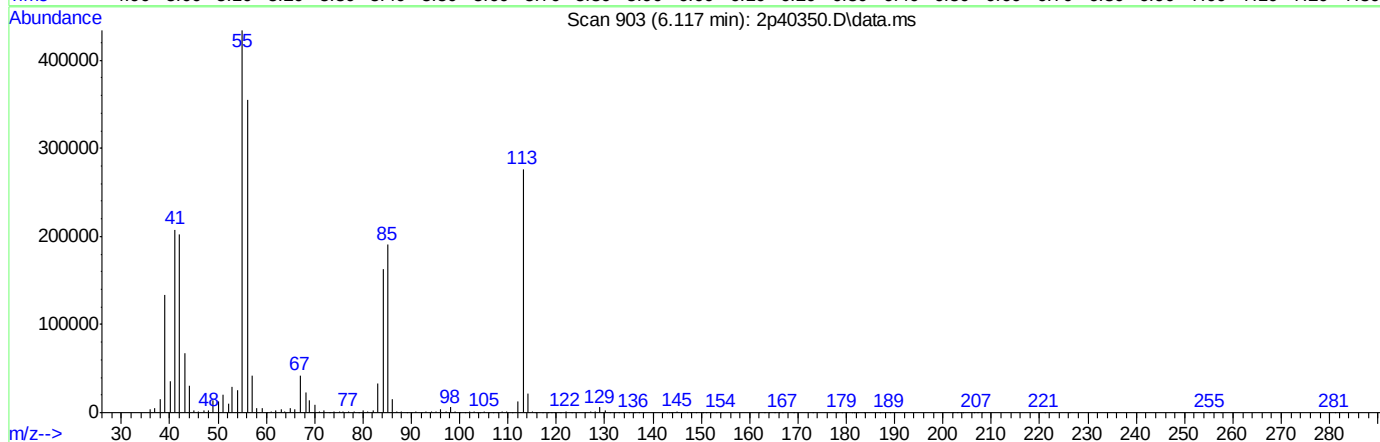
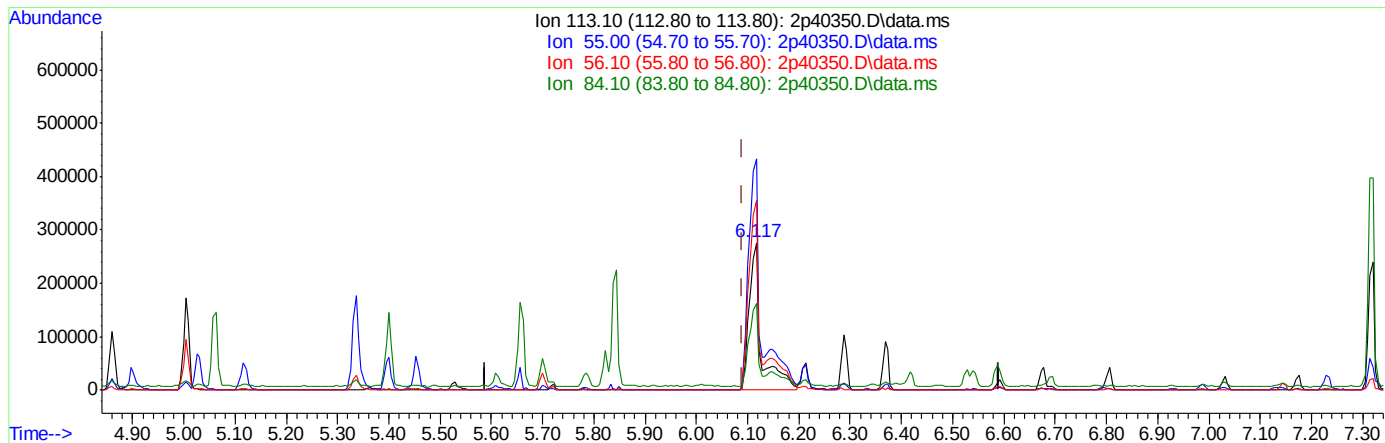
response 337727

Ion	Exp%	Act%
113.10	100	100
55.00	202.60	156.34#
56.10	149.50	128.41
84.10	58.00	56.69

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2P1691\
Data File : 2p40350.D
Acq On : 5 Sep 2014 1:25 pm
Operator : harpreek
Sample : ic1691-100
Misc : op77543,e2p1691,1000,,,1,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 05 14:39:59 2014
Quant Method : C:\MSDCHEM\1\METHODS\M2P1691.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri Sep 05 14:37:09 2014
Response via : Initial Calibration



(41) Caprolactam (t)

6.117min (+0.026) 86.54ppb m

response 449962

Ion	Exp%	Act%
113.10	100	100
55.00	202.60	157.14#
56.10	149.50	128.51
84.10	58.00	58.90

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P1691\
 Data File : 2p40351.D
 Acq On : 5 Sep 2014 1:48 pm
 Operator : harpreek
 Sample : ic1691-1
 Misc : op77543,e2p1691,1000,,,1,1
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 05 14:42:10 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M2P1691.M
 Quant Title : Semi Volatile Extractables by GC/MS
 QLast Update : Fri Sep 05 14:37:09 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.646	152	610316	40.00	ppb	0.00
24) Naphthalene-d8	5.700	136	2270625	40.00	ppb	0.00
47) Acenaphthene-d10	7.144	164	1273936	40.00	ppb	0.00
69) Phenanthrene-d10	8.433	188	2176208	40.00	ppb	0.00
83) Chrysene-d12	11.722	240	2103237	40.00	ppb	-0.01
92) Perylene-d12	13.739	264	1883070	40.00	ppb	0.00
102) 1,4-Dichlorobenzene-d4a	4.646	152	610316	40.00	ppb	0.00
104) Acenaphthene-d10a	7.144	164	1273936	40.00	ppb	0.00
107) Chrysene-d12a	11.722	240	2103237	40.00	ppb	-0.01

System Monitoring Compounds

5) 2-Fluorophenol	3.603	112	11019	0.55	ppb	0.02
Spiked Amount	50.000	Range 11 - 58	Recovery	=	1.10%#	
8) Phenol-d5	4.411	99	18418	0.78	ppb	0.01
Spiked Amount	50.000	Range 10 - 59	Recovery	=	1.56%#	
25) Nitrobenzene-d5	5.122	82	18458	0.92	ppb	0.00
Spiked Amount	50.000	Range 19 - 61	Recovery	=	1.84%#	
51) 2-Fluorobiphenyl	6.587	172	43068	1.01	ppb	0.00
Spiked Amount	50.000	Range 21 - 58	Recovery	=	2.02%#	
73) 2,4,6-Tribromophenol	7.807	330	6645	1.16	ppb	0.00
Spiked Amount	50.000	Range 12 - 68	Recovery	=	2.32%#	
85) Terphenyl-d14	10.273	244	45057	1.05	ppb	0.00
Spiked Amount	50.000	Range 16 - 65	Recovery	=	2.10%#	

Target Compounds

						Qvalue
2) 1,4-Dioxane	1.950	88	3338m	0.43	ppb	
3) Pyridine	2.378	79	17434m	0.89	ppb	
4) N-Nitrosodimethylamine	2.309	74	8994	0.71	ppb	87
6) Indene	4.860	116	32318	0.93	ppb	95
7) Cumene	3.977	105	44628	0.87	ppb	100
9) Phenol	4.421	94	20994	0.74	ppb	88
10) Aniline	4.395	93	24340	0.79	ppb	93
11) bis(2-Chloroethyl)ether	4.443	93	13987	0.72	ppb	# 65
12) 2-Chlorophenol	4.501	128	21625	0.89	ppb	99
13) Decane	4.523	57	23220	0.78	ppb	92
14) 1,3-Dichlorobenzene	4.603	146	24892	0.90	ppb	97
15) 1,4-Dichlorobenzene	4.662	146	26658	0.97	ppb	99
16) Benzyl alcohol	4.801	108	11394	0.85	ppb	# 63
17) 1,2-Dichlorobenzene	4.790	146	23080	0.90	ppb	93
18) Acetophenone	4.999	105	27032	0.97	ppb	90
19) 2-Methylphenol	4.908	108	15739	0.89	ppb	97
20) 2,2'-oxybis(1-Chloropr...	4.887	121	5769	0.87	ppb	# 59
21) 3&4-Methylphenol	5.047	108	16745	0.91	ppb	# 71
22) n-Nitroso-di-n-propyla...	4.994	70	11577	0.83	ppb	98
23) Hexachloroethane	5.063	201	8992	0.92	ppb	89
26) Nitrobenzene	5.138	77	20155	0.96	ppb	97
27) Quinoline	6.010	129	37678	0.93	ppb	94
28) Isophorone	5.325	82	32902	0.89	ppb	95
29) 2-Nitrophenol	5.400	139	11716	0.95	ppb	# 31

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P1691\
 Data File : 2p40351.D
 Acq On : 5 Sep 2014 1:48 pm
 Operator : harpreek
 Sample : ic1691-1
 Misc : op77543,e2p1691,1000,,,1,1
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 05 14:42:10 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M2P1691.M
 Quant Title : Semi Volatile Extractables by GC/MS
 QLast Update : Fri Sep 05 14:37:09 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
30) 2,4-Dimethylphenol	5.459	107	18502	0.97	ppb	91
32) bis(2-Chloroethoxy)met...	5.507	93	18425	0.81	ppb	95
33) 2,4-Dichlorophenol	5.630	162	17969	0.94	ppb	93
34) 2,6-Dichlorophenol	5.791	162	18868	1.01	ppb	97
35) 1,3,5-Trichlorobenzene	5.400	180	21742	1.01	ppb	92
36) 1,2,4-Trichlorobenzene	5.657	180	21564	1.00	ppb	90
37) 1,2,3-Trichlorobenzene	5.839	180	20253	1.03	ppb	85
38) Naphthalene	5.716	128	63331	0.98	ppb	97
39) 4-Chloroaniline	5.785	127	24855	0.93	ppb	98
40) 2,3-Dichloroaniline	6.529	161	23685	1.06	ppb	88
41) Caprolactam	6.053	113	4220	0.70	ppb	# 66
42) Hexachlorobutadiene	5.823	225	11521	1.01	ppb	94
43) 4-Chloro-3-methylphenol	6.208	107	15407	0.83	ppb	97
44) 2-Methylnaphthalene	6.288	141	38302	0.98	ppb	97
45) 1-Methylnaphthalene	6.368	141	38636	1.07	ppb	97
46) Dimethylnaphthalene	6.801	156	37731	1.02	ppb	95
48) Hexachlorocyclopentadiene	6.416	237	1832	0.15	ppb	93
49) 2,4,6-Trichlorophenol	6.539	196	11905	0.91	ppb	91
50) 2,4,5-Trichlorophenol	6.593	196	12131	0.93	ppb	# 74
52) 2-Chloronaphthalene	6.689	162	40549	0.99	ppb	98
53) Biphenyl	6.668	154	52270	1.02	ppb	98
54) 2-Nitroaniline	6.791	65	14192	1.11	ppb	97
55) Dimethylphthalate	6.924	163	42956	0.96	ppb	99
56) Acenaphthylene	7.026	152	67925	1.04	ppb	99
57) 2,6-Dinitrotoluene	6.983	165	10969	1.11	ppb	88
58) 3-Nitroaniline	7.138	138	11321	0.91	ppb	# 1
59) Acenaphthene	7.165	153	43010	0.99	ppb	99
61) 4-Nitrophenol	7.358	109	3112	0.52	ppb	# 9
62) Dibenzofuran	7.315	168	60017	1.06	ppb	96
63) 2,4-Dinitrotoluene	7.326	165	13233	0.99	ppb	94
64) 2,3,4,6-Tetrachlorophenol	7.433	232	10063	0.87	ppb	97
65) Diethylphthalate	7.497	149	42241	0.94	ppb	97
66) Fluorene	7.593	166	44440	0.99	ppb	97
67) 4-Chlorophenyl-phenyle...	7.593	204	20154	0.98	ppb	95
68) 4-Nitroaniline	7.641	138	11490	0.92	ppb	75
70) 4,6-Dinitro-2-methylph...	7.668	198	3864	0.49	ppb	83
71) n-Nitrosodiphenylamine	7.695	169	31094	0.98	ppb	95
72) 1,2-Diphenylhydrazine	7.721	77	35794	0.82	ppb	97
74) 4-Bromophenyl-phenylether	8.010	248	12184	0.98	ppb	86
75) Hexachlorobenzene	8.080	284	14714	0.98	ppb	96
76) Pentachlorophenol	8.278	266	9229	1.04	ppb	87
77) Phenanthrene	8.454	178	69879	0.97	ppb	98
78) Anthracene	8.508	178	64367	0.92	ppb	93
79) Carbazole	8.684	167	53206	0.87	ppb	100
80) Di-n-butylphthalate	9.048	149	68176	0.88	ppb	97
81) Fluoranthene	9.775	202	73271	0.93	ppb	96
82) Octadecane	8.326	43	17660	0.85	ppb	93
84) Pyrene	10.053	202	77072	0.96	ppb	98
86) Butylbenzylphthalate	10.968	149	28829	0.87	ppb	95
87) Butyl stearate	11.102	56	20964	0.93	ppb	85

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P1691\
Data File : 2p40351.D
Acq On : 5 Sep 2014 1:48 pm
Operator : harpreek
Sample : ic1691-1
Misc : op77543,e2p1691,1000,,,1,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 05 14:42:10 2014
Quant Method : C:\MSDCHEM\1\METHODS\M2P1691.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri Sep 05 14:37:09 2014
Response via : Initial Calibration

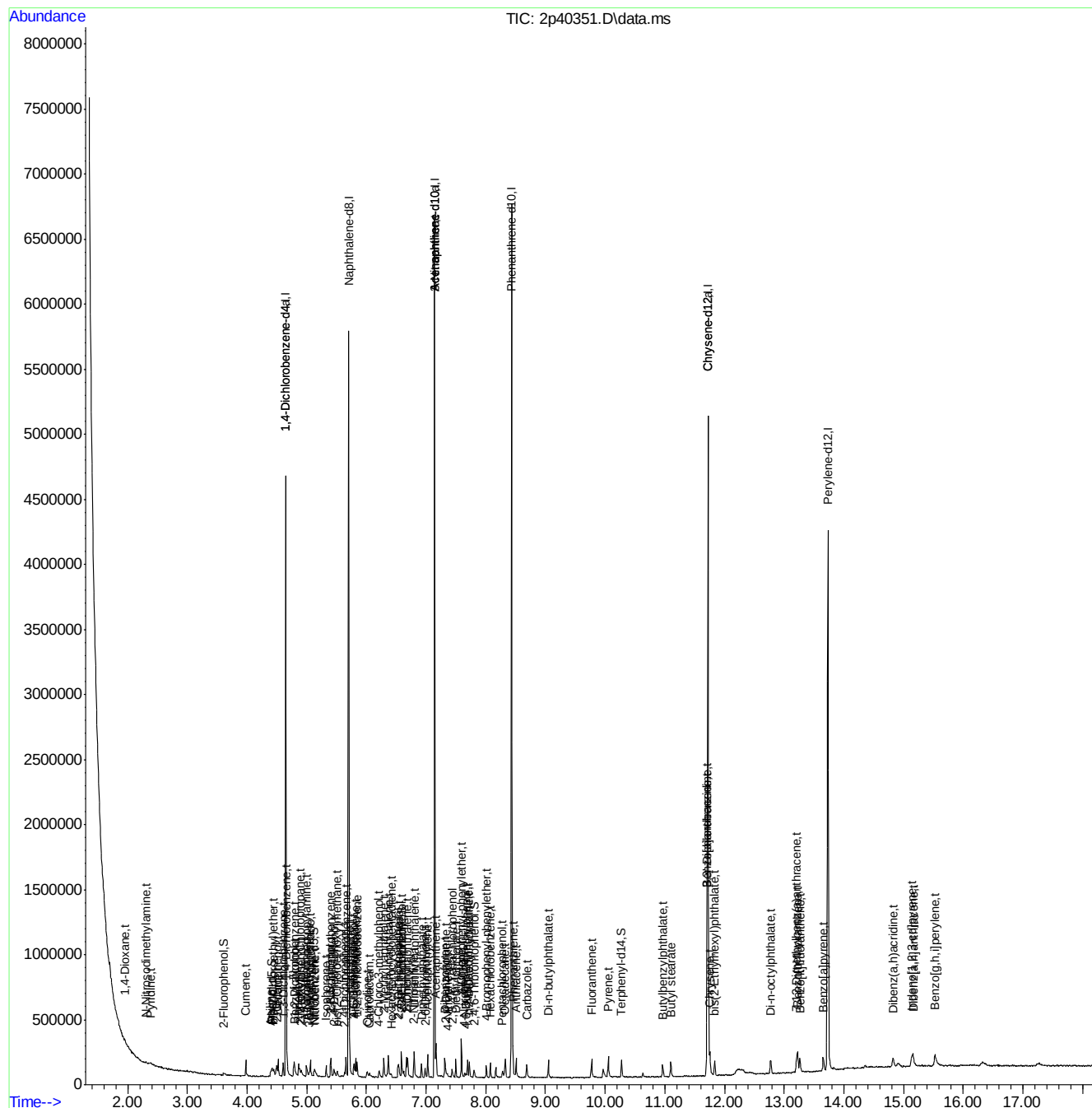
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
88) Benzo[a]anthracene	11.706	228	70724	1.04	ppb	99
89) 3,3'-Dichlorobenzidine	11.706	252	23342	1.09	ppb	96
90) Chrysene	11.754	228	57833	0.92	ppb	98
91) bis(2-Ethylhexyl)phtha...	11.834	149	40363	0.96	ppb	98
93) Di-n-octylphthalate	12.776	149	70554	0.93	ppb	100
94) Benzo[b]fluoranthene	13.225	252	67601	0.94	ppb	91
95) Benzo[k]fluoranthene	13.263	252	61295	0.93	ppb	97
96) Benzo[a]pyrene	13.658	252	53495	0.89	ppb	95
97) Indeno[1,2,3-cd]pyrene	15.140	276	63937	1.14	ppb	98
98) Dibenz(a,h)acridine	14.824	279	45157	1.01	ppb	98
99) Dibenz[a,h]anthracene	15.167	278	50278	0.90	ppb	95
100) 7,12-Dimethylbenz(a)an...	13.209	256	25305	1.07	ppb	98
101) Benzo[g,h,i]perylene	15.530	276	52537	0.91	ppb	86

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P1691\
 Data File : 2p40351.D
 Acq On : 5 Sep 2014 1:48 pm
 Operator : harpreek
 Sample : ic1691-1
 Misc : op77543,e2p1691,1000,,,1,1
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 05 14:42:10 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M2P1691.M
 Quant Title : Semi Volatile Extractables by GC/MS
 QLast Update : Fri Sep 05 14:37:09 2014
 Response via : Initial Calibration



Manual Integration Approval Summary

Sample Number: E2P1691-IC1691

Method: SW846 8270D

Lab FileID: 2P40351.D

Analyst approved: 09/05/14 16:56 Kristi Schollenberger

Injection Time: 09/05/14 13:48

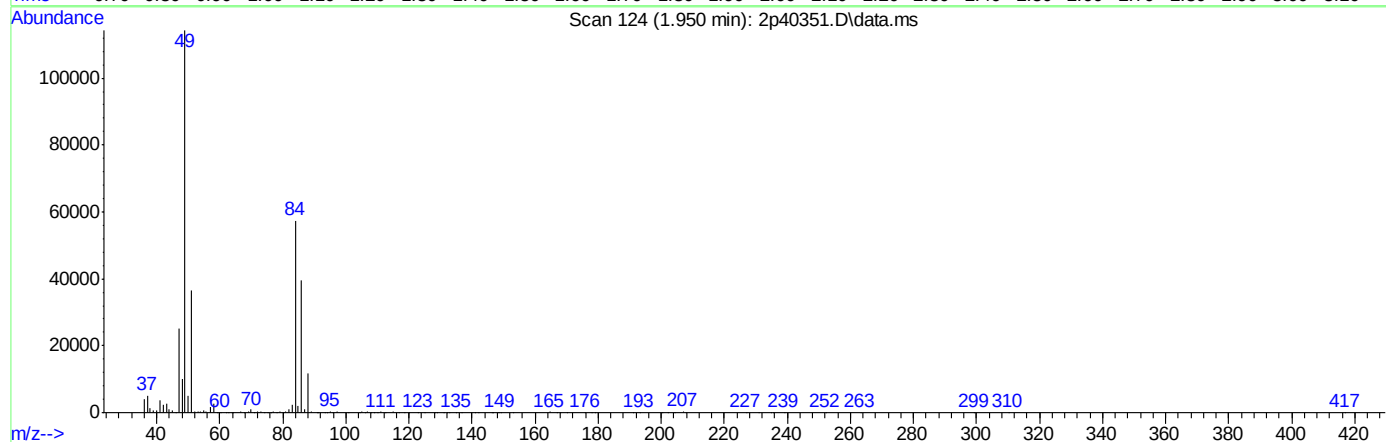
Supervisor approved: 09/08/14 09:30 Nina Pandya

Parameter	CAS	Sig#	R.T. (min.)	Reason
1,4-Dioxane	123-91-1		1.95	Poor instrument integration
Pyridine	110-86-1		2.38	Split peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2P1691\
Data File : 2p40351.D
Acq On : 5 Sep 2014 1:48 pm
Operator : harpreek
Sample : ic1691-1
Misc : op77543,e2p1691,1000,,,1,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 05 14:40:34 2014
Quant Method : C:\MSDCHEM\1\METHODS\M2P1691.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri Sep 05 14:37:09 2014
Response via : Initial Calibration



(2) 1,4-Dioxane (t)

1.950min (+0.016) 1.39ppb

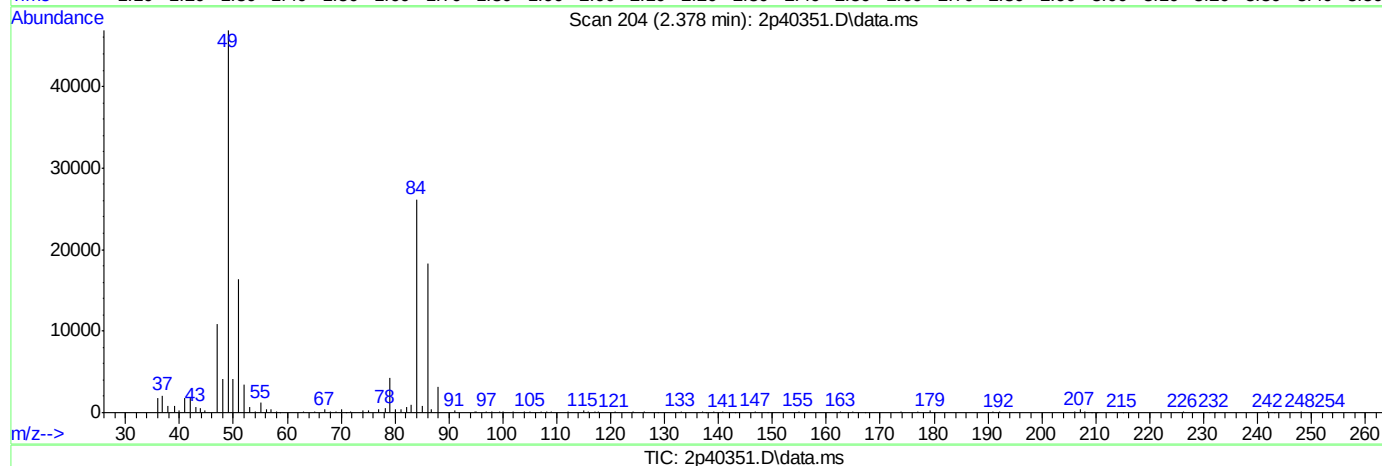
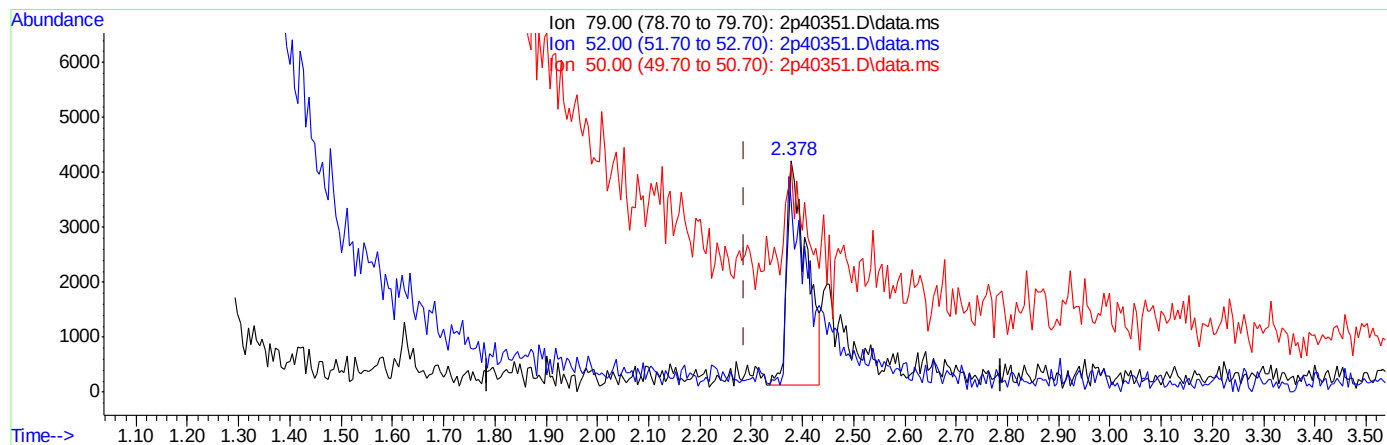
response 10924

Ion	Exp%	Act%
88.00	100	100
58.10	88.80	45.72#
57.10	33.40	25.80
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2P1691\
Data File : 2p40351.D
Acq On : 5 Sep 2014 1:48 pm
Operator : harpreek
Sample : ic1691-1
Misc : op77543,e2p1691,1000,,,1,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 05 14:40:34 2014
Quant Method : C:\MSDCHEM\1\METHODS\M2P1691.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri Sep 05 14:37:09 2014
Response via : Initial Calibration



(3) Pyridine (t)

2.378min (+0.091) 0.55ppb

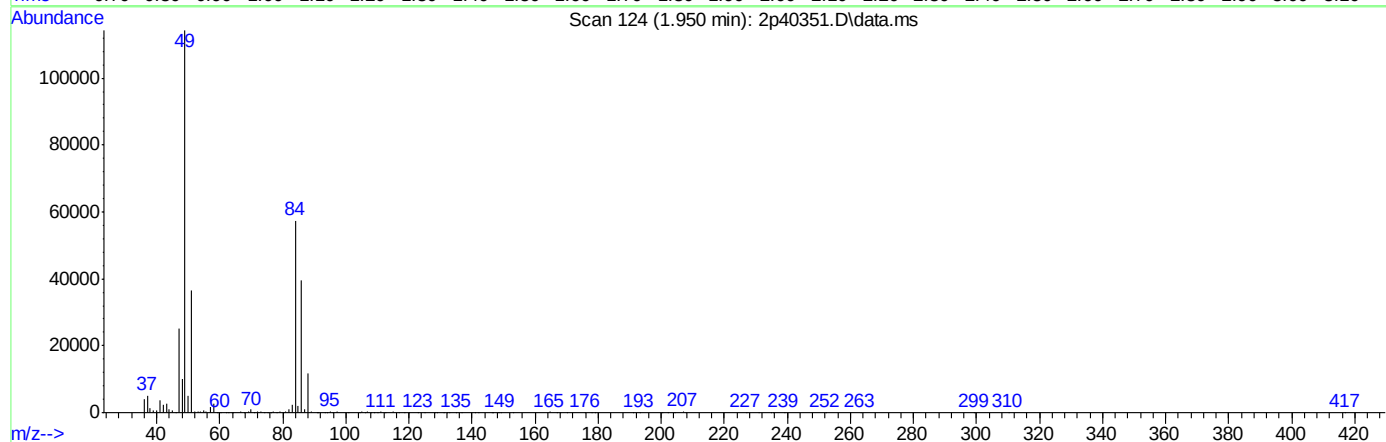
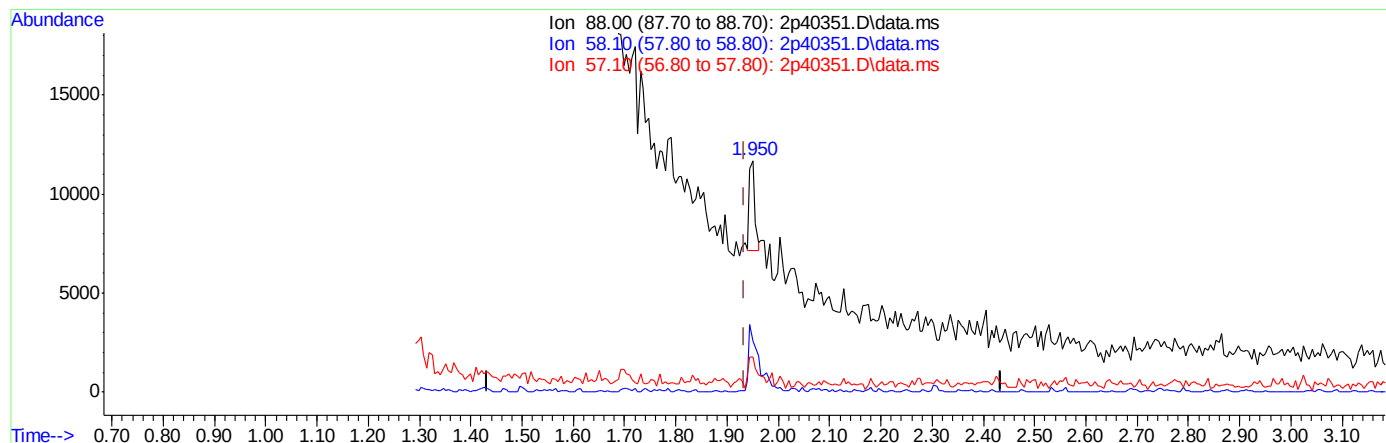
response 10789

Ion	Exp%	Act%
79.00	100	100
52.00	100.00	75.80
50.00	39.70	54.30
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2P1691\
Data File : 2p40351.D
Acq On : 5 Sep 2014 1:48 pm
Operator : harpreek
Sample : ic1691-1
Misc : op77543,e2p1691,1000,,,1,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 05 14:42:10 2014
Quant Method : C:\MSDCHEM\1\METHODS\M2P1691.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri Sep 05 14:37:09 2014
Response via : Initial Calibration



TIC: 2p40351.D\data.ms

(2) 1,4-Dioxane (t)

1.950min (+0.016) 0.43ppb m

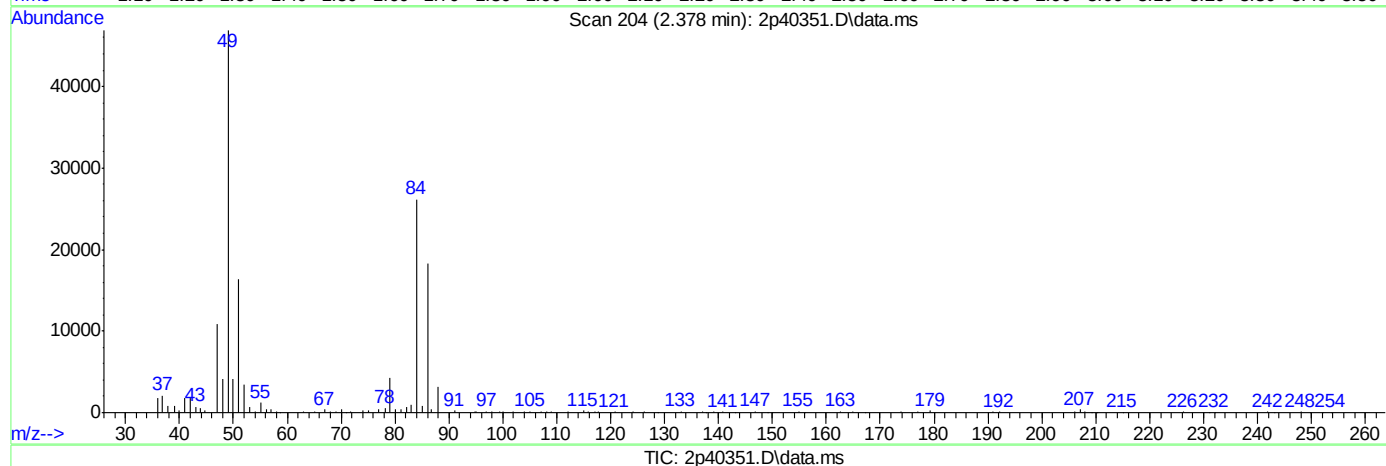
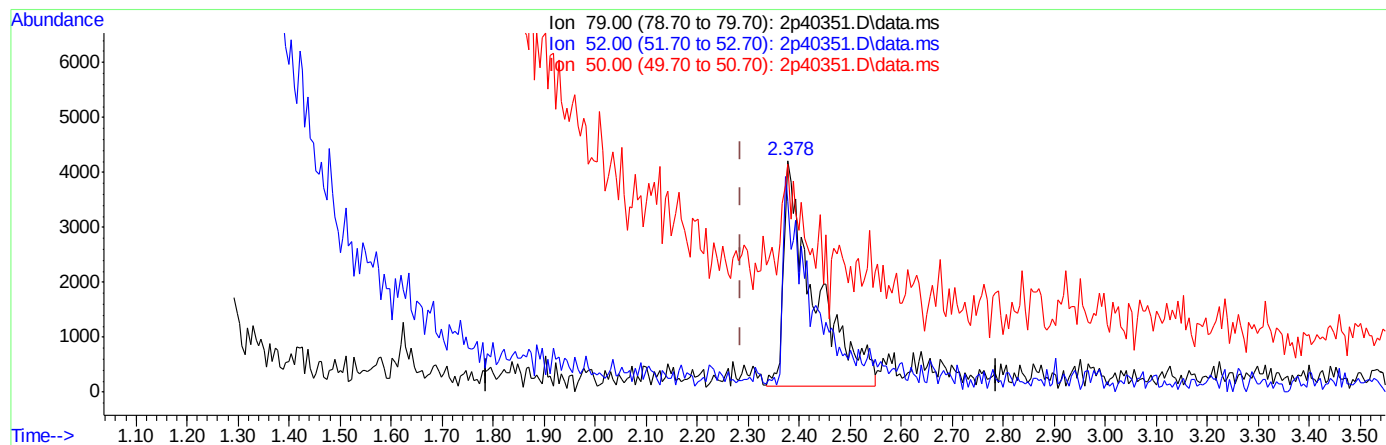
response 3338

Ion	Exp%	Act%
88.00	100	100
58.10	88.80	21.90#
57.10	33.40	15.15
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2P1691\
Data File : 2p40351.D
Acq On : 5 Sep 2014 1:48 pm
Operator : harpreek
Sample : ic1691-1
Misc : op77543,e2p1691,1000,,,1,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 05 14:42:10 2014
Quant Method : C:\MSDCHEM\1\METHODS\M2P1691.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri Sep 05 14:37:09 2014
Response via : Initial Calibration



(3) Pyridine (t)

2.378min (+0.091) 0.89ppb m

response 17434

Ion	Exp%	Act%
79.00	100	100
52.00	100.00	82.31
50.00	39.70	98.22#
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P1691\
 Data File : 2p40352.D
 Acq On : 5 Sep 2014 2:11 pm
 Operator : harpreek
 Sample : ic1691-80
 Misc : op77543,e2p1691,1000,,,1,1
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 05 14:43:35 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M2P1691.M
 Quant Title : Semi Volatile Extractables by GC/MS
 QLast Update : Fri Sep 05 14:37:09 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.646	152	405941	40.00	ppb	0.00
24) Naphthalene-d8	5.699	136	1473506	40.00	ppb	0.00
47) Acenaphthene-d10	7.138	164	843850	40.00	ppb	0.00
69) Phenanthrene-d10	8.427	188	1477452	40.00	ppb	-0.01
83) Chrysene-d12	11.727	240	1461782	40.00	ppb	0.00
92) Perylene-d12	13.733	264	1325438	40.00	ppb	-0.01
102) 1,4-Dichlorobenzene-d4a	4.646	152	405941	40.00	ppb	0.00
104) Acenaphthene-d10a	7.138	164	843850	40.00	ppb	0.00
107) Chrysene-d12a	11.727	240	1461782	40.00	ppb	0.00

System Monitoring Compounds

5) 2-Fluorophenol	3.581	112	1030997	77.59	ppb	0.00
Spiked Amount 50.000	Range 11	- 58	Recovery	=	155.18%#	
8) Phenol-d5	4.394	99	1177933	74.75	ppb	0.00
Spiked Amount 50.000	Range 10	- 59	Recovery	=	149.50%#	
25) Nitrobenzene-d5	5.111	82	957572	73.87	ppb	0.00
Spiked Amount 50.000	Range 19	- 61	Recovery	=	147.74%#	
51) 2-Fluorobiphenyl	6.587	172	2176186	77.29	ppb	0.00
Spiked Amount 50.000	Range 21	- 58	Recovery	=	154.58%#	
73) 2,4,6-Tribromophenol	7.801	330	360877	93.15	ppb	0.00
Spiked Amount 50.000	Range 12	- 68	Recovery	=	186.30%#	
85) Terphenyl-d14	10.273	244	2506640	84.40	ppb	0.00
Spiked Amount 50.000	Range 16	- 65	Recovery	=	168.80%#	

Target Compounds

						Qvalue
2) 1,4-Dioxane	1.929	88	359551	68.97	ppb	92
3) Pyridine	2.282	79	931919	71.65	ppb	92
4) N-Nitrosodimethylamine	2.255	74	523095	61.88	ppb	93
6) Indene	4.860	116	1622096	70.47	ppb	96
7) Cumene	3.972	105	2509595	73.22	ppb	98
9) Phenol	4.405	94	1319952	69.57	ppb	94
10) Aniline	4.384	93	1501001	73.47	ppb	93
11) bis(2-Chloroethyl)ether	4.437	93	796567	61.85	ppb	87
12) 2-Chlorophenol	4.491	128	1084863	66.79	ppb	90
13) Decane	4.523	57	1060418	53.43	ppb	95
14) 1,3-Dichlorobenzene	4.598	146	1236336	67.09	ppb	99
15) 1,4-Dichlorobenzene	4.662	146	1241306	67.75	ppb	98
16) Benzyl alcohol	4.785	108	663351	74.57	ppb	88
17) 1,2-Dichlorobenzene	4.785	146	1155607	67.77	ppb	100
18) Acetophenone	4.988	105	1332115	71.60	ppb	94
19) 2-Methylphenol	4.897	108	824310	70.21	ppb	95
20) 2,2'-oxybis(1-Chloropr...	4.881	121	262926	59.56	ppb #	59
21) 3&4-Methylphenol	5.020	108	886569	72.65	ppb	100
22) n-Nitroso-di-n-propyla...	4.999	70	575421	61.99	ppb	88
23) Hexachloroethane	5.058	201	465831	71.88	ppb	96
26) Nitrobenzene	5.127	77	899434	65.68	ppb	96
27) Quinoline	6.004	129	1933930	73.61	ppb	99
28) Isophorone	5.325	82	1556084	65.07	ppb	97
29) 2-Nitrophenol	5.395	139	628136	78.67	ppb #	52

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P1691\
 Data File : 2p40352.D
 Acq On : 5 Sep 2014 2:11 pm
 Operator : harpreek
 Sample : ic1691-80
 Misc : op77543,e2p1691,1000,,,1,1
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 05 14:43:35 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M2P1691.M
 Quant Title : Semi Volatile Extractables by GC/MS
 QLast Update : Fri Sep 05 14:37:09 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
30) 2,4-Dimethylphenol	5.448	107	933640	75.75	ppb	98
31) Benzoic acid	5.603	105	734543	81.64	ppb	97
32) bis(2-Chloroethoxy)met...	5.507	93	953061	64.62	ppb	99
33) 2,4-Dichlorophenol	5.609	162	922268	74.37	ppb	97
34) 2,6-Dichlorophenol	5.780	162	884695	72.63	ppb	97
35) 1,3,5-Trichlorobenzene	5.400	180	1092900	78.21	ppb	98
36) 1,2,4-Trichlorobenzene	5.657	180	1014291	72.45	ppb	99
37) 1,2,3-Trichlorobenzene	5.839	180	948980	74.24	ppb	98
38) Naphthalene	5.715	128	3075983	73.62	ppb	99
39) 4-Chloroaniline	5.774	127	1322042	76.07	ppb	96
40) 2,3-Dichloroaniline	6.523	161	1114700	77.20	ppb	95
41) Caprolactam	6.090	113	275430	70.40	ppb	# 82
42) Hexachlorobutadiene	5.817	225	568103	76.92	ppb	99
43) 4-Chloro-3-methylphenol	6.202	107	864911	71.51	ppb	96
44) 2-Methylnaphthalene	6.282	141	2002407	78.83	ppb	96
45) 1-Methylnaphthalene	6.363	141	1806104	77.05	ppb	99
46) Dimethylnaphthalene	6.796	156	1815320	75.93	ppb	99
48) Hexachlorocyclopentadiene	6.416	237	982849	123.25	ppb	99
49) 2,4,6-Trichlorophenol	6.534	196	630948	72.61	ppb	99
50) 2,4,5-Trichlorophenol	6.577	196	692666	80.44	ppb	98
52) 2-Chloronaphthalene	6.684	162	1871123	68.92	ppb	98
53) Biphenyl	6.668	154	2527657	74.71	ppb	98
54) 2-Nitroaniline	6.785	65	628346	73.98	ppb	# 75
55) Dimethylphthalate	6.924	163	2110328	71.08	ppb	100
56) Acenaphthylene	7.026	152	3389806	78.09	ppb	100
57) 2,6-Dinitrotoluene	6.978	165	510017	77.81	ppb	99
58) 3-Nitroaniline	7.122	138	636961	77.46	ppb	92
59) Acenaphthene	7.165	153	2159127	74.65	ppb	93
60) 2,4-Dinitrophenol	7.218	184	681046	184.41	ppb	# 85
61) 4-Nitrophenol	7.304	109	284713	71.80	ppb	# 1
62) Dibenzofuran	7.309	168	2939113	78.71	ppb	93
63) 2,4-Dinitrotoluene	7.320	165	669710	75.69	ppb	84
64) 2,3,4,6-Tetrachlorophenol	7.427	232	588641	76.72	ppb	93
65) Diethylphthalate	7.502	149	2101614	70.36	ppb	100
66) Fluorene	7.593	166	2328682	78.68	ppb	99
67) 4-Chlorophenyl-phenyle...	7.588	204	1042226	76.52	ppb	95
68) 4-Nitroaniline	7.636	138	587810	70.83	ppb	96
70) 4,6-Dinitro-2-methylph...	7.662	198	433833	81.33	ppb	95
71) n-Nitrosodiphenylamine	7.694	169	1493271	68.99	ppb	97
72) 1,2-Diphenylhydrazine	7.721	77	1777196	60.08	ppb	98
74) 4-Bromophenyl-phenylether	8.005	248	643018	75.90	ppb	99
75) Hexachlorobenzene	8.080	284	780306	76.45	ppb	90
76) Pentachlorophenol	8.272	266	902298	150.28	ppb	100
77) Phenanthrene	8.454	178	3515406	71.60	ppb	98
78) Anthracene	8.507	178	3560094	74.93	ppb	99
79) Carbazole	8.679	167	3074409	74.40	ppb	99
80) Di-n-butylphthalate	9.048	149	3894004	73.62	ppb	99
81) Fluoranthene	9.770	202	4215093	78.66	ppb	100
82) Octadecane	8.326	43	878361	61.98	ppb	92
84) Pyrene	10.053	202	4190688	75.38	ppb	100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P1691\
 Data File : 2p40352.D
 Acq On : 5 Sep 2014 2:11 pm
 Operator : harpreek
 Sample : ic1691-80
 Misc : op77543,e2p1691,1000,,,1,1
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 05 14:43:35 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M2P1691.M
 Quant Title : Semi Volatile Extractables by GC/MS
 QLast Update : Fri Sep 05 14:37:09 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
86) Butylbenzylphthalate	10.963	149	1773637	76.74	ppb	96
87) Butyl stearate	11.102	56	1126776	71.91	ppb	81
88) Benzo[a]anthracene	11.711	228	3736222	78.95	ppb	98
89) 3,3'-Dichlorobenzidine	11.706	252	1390102	93.41	ppb	97
90) Chrysene	11.765	228	3234188	74.23	ppb	98
91) bis(2-Ethylhexyl)phtha...	11.834	149	2205844	75.32	ppb	99
93) Di-n-octylphthalate	12.776	149	4225360	79.54	ppb	99
94) Benzo[b]fluoranthene	13.241	252	3738300	73.50	ppb	97
95) Benzo[k]fluoranthene	13.278	252	3236545	69.40	ppb	99
96) Benzo[a]pyrene	13.664	252	3294760	78.24	ppb	98
97) Indeno[1,2,3-cd]pyrene	15.150	276	3788061	96.10	ppb	97
98) Dibenz(a,h)acridine	14.824	279	2538059	80.34	ppb	99
99) Dibenz[a,h]anthracene	15.177	278	3014819	77.05	ppb	95
100) 7,12-Dimethylbenz(a)an...	13.225	256	1632445	97.88	ppb	98
101) Benzo[g,h,i]perylene	15.541	276	2987972	73.83	ppb	95

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

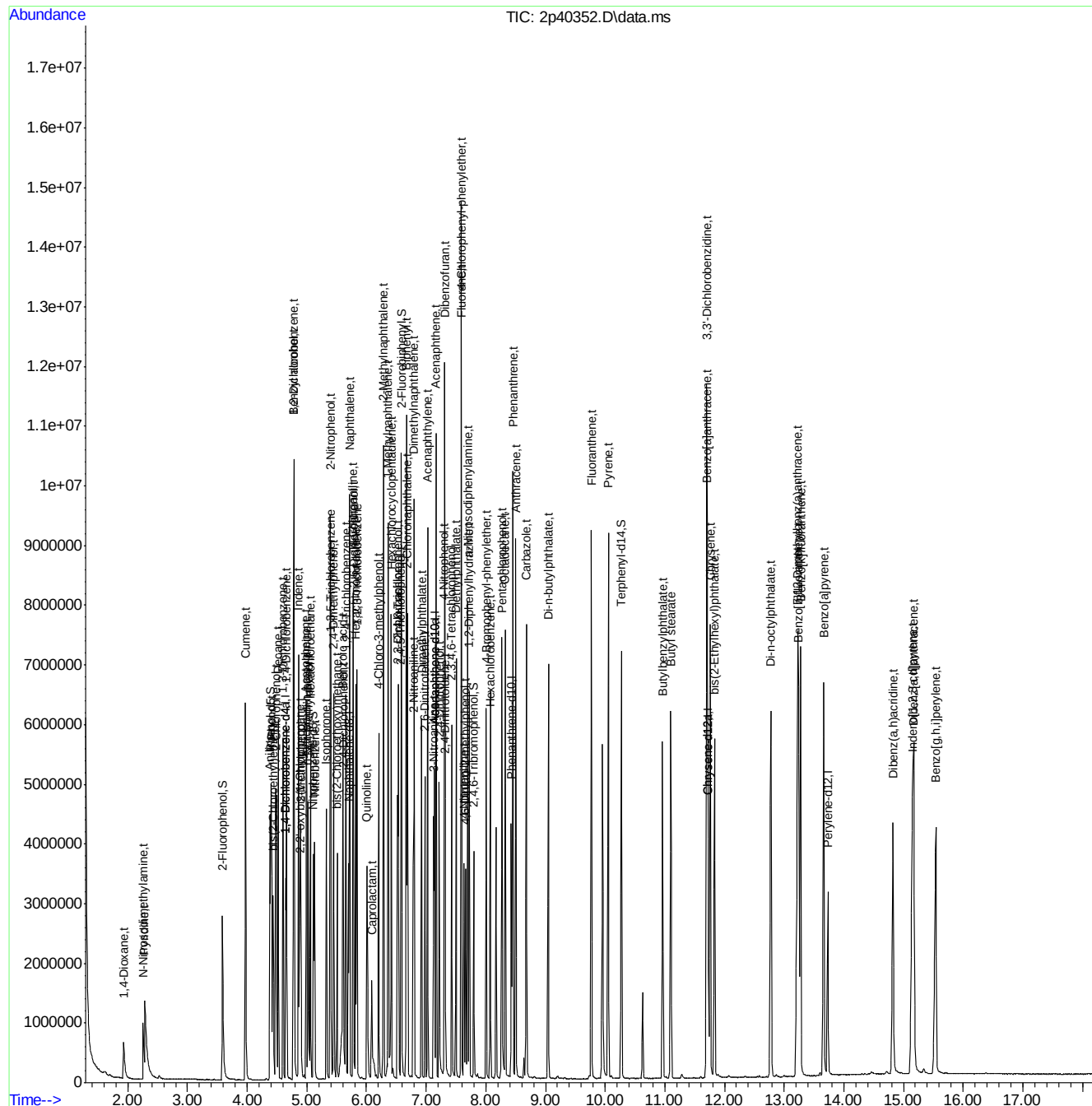
Quantitation Report (QT Reviewed)

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Data Path   : C:\msdchem\1\DATA\2P1691\
Data File   : 2p40352.D
Acq On      : 5 Sep 2014    2:11 pm
Operator    : harpreek
Sample      : ic1691-80
Misc        : op77543,e2p1691,1000,,,1,1
ALS Vial    : 5    Sample Multiplier: 1

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Quant Time: Sep 05 14:43:35 2014
Quant Method : C:\MSDCHEM\1\METHODS\M2P1691.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri Sep 05 14:37:09 2014
Response via : Initial Calibration



M2P1691.M Fri Sep 05 16:35:25 2014 RPT1

Page: 4

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P1691\
 Data File : 2p40353.D
 Acq On : 5 Sep 2014 2:34 pm
 Operator : harpreek
 Sample : ic1691-2
 Misc : op77543,e2p1691,1000,,,1,1
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 08 09:13:44 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M2P1691.M
 Quant Title : Semi Volatile Extractables by GC/MS
 QLast Update : Fri Sep 05 14:44:33 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.646	152	481397	40.00	ppb	0.00
24) Naphthalene-d8	5.694	136	1788263	40.00	ppb	0.00
47) Acenaphthene-d10	7.133	164	999683	40.00	ppb	-0.01
69) Phenanthrene-d10	8.422	188	1661480	40.00	ppb	-0.02
83) Chrysene-d12	11.711	240	1685717	40.00	ppb	-0.02
92) Perylene-d12	13.722	264	1517887	40.00	ppb	-0.02
102) 1,4-Dichlorobenzene-d4a	4.646	152	481397	40.00	ppb	0.00
104) Acenaphthene-d10a	7.133	164	999683	40.00	ppb	-0.01
107) Chrysene-d12a	11.711	240	1685717	40.00	ppb	-0.02

System Monitoring Compounds

5) 2-Fluorophenol	3.608	112	24714	1.85	ppb	0.03
Spiked Amount	50.000	Range 11 - 58	Recovery	=	3.70%#	
8) Phenol-d5	4.405	99	32015	1.92	ppb	0.00
Spiked Amount	50.000	Range 10 - 59	Recovery	=	3.84%#	
25) Nitrobenzene-d5	5.116	82	30226	2.10	ppb	0.00
Spiked Amount	50.000	Range 19 - 61	Recovery	=	4.20%#	
51) 2-Fluorobiphenyl	6.582	172	70334	2.21	ppb	0.00
Spiked Amount	50.000	Range 21 - 58	Recovery	=	4.42%#	
73) 2,4,6-Tribromophenol	7.796	330	9314	1.84	ppb	-0.01
Spiked Amount	50.000	Range 12 - 68	Recovery	=	3.68%#	
85) Terphenyl-d14	10.267	244	70350	1.96	ppb	-0.01
Spiked Amount	50.000	Range 16 - 65	Recovery	=	3.92%#	

Target Compounds

						Qvalue
2) 1,4-Dioxane	1.945	88	10761	2.42	ppb	95
3) Pyridine	2.362	79	21812	1.63	ppb	91
4) N-Nitrosodimethylamine	2.303	74	12913	1.70	ppb	87
6) Indene	4.860	116	51126	2.09	ppb	100
7) Cumene	3.972	105	74258	2.02	ppb	97
9) Phenol	4.416	94	37018	1.98	ppb	97
10) Aniline	4.389	93	41593	2.04	ppb	95
11) bis(2-Chloroethyl)ether	4.437	93	24239	2.05	ppb	97
12) 2-Chlorophenol	4.496	128	36611	2.20	ppb	98
13) Decane	4.517	57	38589	2.37	ppb	95
14) 1,3-Dichlorobenzene	4.598	146	40425	2.13	ppb	97
15) 1,4-Dichlorobenzene	4.662	146	42085	2.17	ppb	92
16) Benzyl alcohol	4.790	108	17332	1.81	ppb	80
17) 1,2-Dichlorobenzene	4.785	146	39126	2.22	ppb	99
18) Acetophenone	4.993	105	43730	2.17	ppb	70
19) 2-Methylphenol	4.897	108	27679	2.26	ppb	94
20) 2,2'-oxybis(1-Chloropr...	4.881	121	8989	2.17	ppb #	78
21) 3&4-Methylphenol	5.036	108	25634	1.94	ppb	98
22) n-Nitroso-di-n-propyla...	4.988	70	18217	2.05	ppb	86
23) Hexachloroethane	5.058	201	16030	2.27	ppb	95
26) Nitrobenzene	5.132	77	31815	2.21	ppb	94
27) Quinoline	5.999	129	56831	1.92	ppb	97
28) Isophorone	5.320	82	48151	1.97	ppb	96
29) 2-Nitrophenol	5.395	139	18025	1.88	ppb #	52

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P1691\
 Data File : 2p40353.D
 Acq On : 5 Sep 2014 2:34 pm
 Operator : harpreek
 Sample : ic1691-2
 Misc : op77543,e2p1691,1000,,,1,1
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 08 09:13:44 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M2P1691.M
 Quant Title : Semi Volatile Extractables by GC/MS
 QLast Update : Fri Sep 05 14:44:33 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
30) 2,4-Dimethylphenol	5.448	107	30477	2.14	ppb	96
31) Benzoic acid	5.566	105	14369	1.32	ppb	83
32) bis(2-Chloroethoxy)met...	5.501	93	30938	2.11	ppb	99
33) 2,4-Dichlorophenol	5.625	162	26467	1.85	ppb	78
34) 2,6-Dichlorophenol	5.780	162	27605	1.96	ppb	99
35) 1,3,5-Trichlorobenzene	5.395	180	34878	2.10	ppb	96
36) 1,2,4-Trichlorobenzene	5.651	180	34344	2.15	ppb	95
37) 1,2,3-Trichlorobenzene	5.833	180	32026	2.16	ppb	93
38) Naphthalene	5.710	128	100536	2.13	ppb	99
39) 4-Chloroaniline	5.774	127	40958	2.11	ppb	98
40) 2,3-Dichloroaniline	6.523	161	35858	2.07	ppb	99
41) Caprolactam	6.047	113	8513	2.16	ppb	89
42) Hexachlorobutadiene	5.817	225	19424	2.20	ppb	98
43) 4-Chloro-3-methylphenol	6.202	107	26610	2.04	ppb	# 23
44) 2-Methylnaphthalene	6.282	141	59534	1.99	ppb	97
45) 1-Methylnaphthalene	6.363	141	63370	2.26	ppb	97
46) Dimethylnaphthalene	6.796	156	58782	2.12	ppb	96
48) Hexachlorocyclopentadiene	6.411	237	5336	0.93	ppb	94
49) 2,4,6-Trichlorophenol	6.534	196	19874	2.09	ppb	91
50) 2,4,5-Trichlorophenol	6.587	196	21795	2.21	ppb	86
52) 2-Chloronaphthalene	6.684	162	61931	2.16	ppb	97
53) Biphenyl	6.662	154	79809	2.10	ppb	95
54) 2-Nitroaniline	6.785	65	20365	2.12	ppb	88
55) Dimethylphthalate	6.919	163	67348	2.08	ppb	94
56) Acenaphthylene	7.021	152	103155	2.06	ppb	99
57) 2,6-Dinitrotoluene	6.972	165	15842	2.03	ppb	83
58) 3-Nitroaniline	7.127	138	18125	1.98	ppb	# 70
59) Acenaphthene	7.160	153	70259	2.21	ppb	95
60) 2,4-Dinitrophenol	7.234	184	8435	1.69	ppb	73
61) 4-Nitrophenol	7.341	109	6916	1.84	ppb	# 1
62) Dibenzofuran	7.304	168	90167	2.06	ppb	99
63) 2,4-Dinitrotoluene	7.320	165	20861	2.07	ppb	97
64) 2,3,4,6-Tetrachlorophenol	7.427	232	15946	1.84	ppb	95
65) Diethylphthalate	7.491	149	65837	2.06	ppb	95
66) Fluorene	7.587	166	73921	2.17	ppb	95
67) 4-Chlorophenyl-phenyle...	7.582	204	29255	1.87	ppb	72
68) 4-Nitroaniline	7.630	138	15370	1.78	ppb	99
70) 4,6-Dinitro-2-methylph...	7.662	198	7974	1.47	ppb	89
71) n-Nitrosodiphenylamine	7.684	169	48156	2.21	ppb	98
72) 1,2-Diphenylhydrazine	7.716	77	54988	2.15	ppb	96
74) 4-Bromophenyl-phenylether	8.005	248	18808	2.02	ppb	91
75) Hexachlorobenzene	8.069	284	22519	2.02	ppb	98
76) Pentachlorophenol	8.267	266	15157	2.65	ppb	91
77) Phenanthrene	8.449	178	106703	2.16	ppb	99
78) Anthracene	8.497	178	108029	2.21	ppb	97
79) Carbazole	8.673	167	88560	2.10	ppb	94
80) Di-n-butylphthalate	9.042	149	109559	2.01	ppb	99
81) Fluoranthene	9.764	202	118547	2.05	ppb	98
82) Octadecane	8.320	43	28916	2.34	ppb	94
84) Pyrene	10.048	202	122622	2.03	ppb	98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P1691\
 Data File : 2p40353.D
 Acq On : 5 Sep 2014 2:34 pm
 Operator : harpreek
 Sample : ic1691-2
 Misc : op77543,e2p1691,1000,,,1,1
 ALS Vial : 6 Sample Multiplier: 1

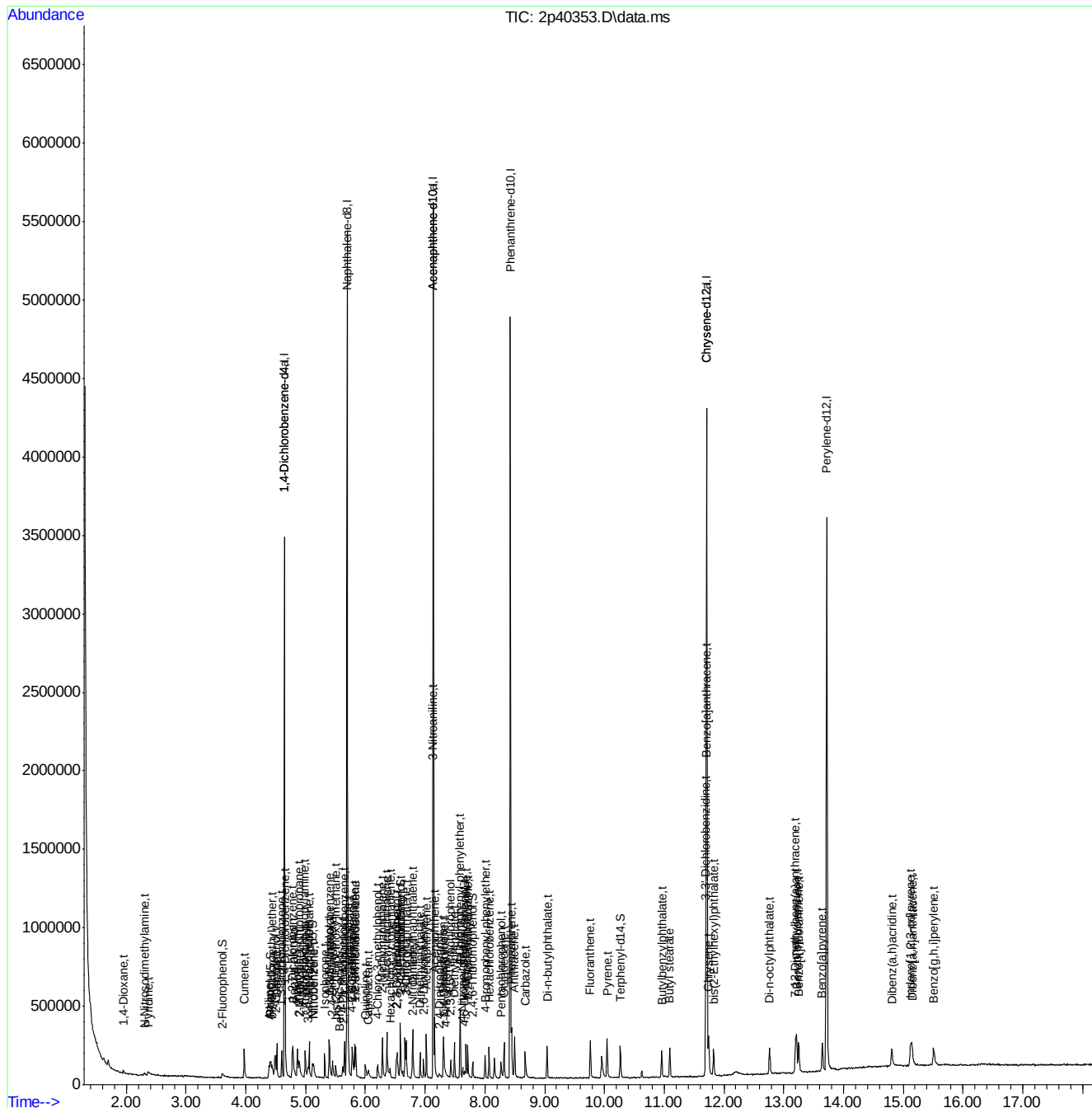
Quant Time: Sep 08 09:13:44 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M2P1691.M
 Quant Title : Semi Volatile Extractables by GC/MS
 QLast Update : Fri Sep 05 14:44:33 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
86) Butylbenzylphthalate	10.957	149	49647	1.97	ppb	98
87) Butyl stearate	11.091	56	32200m	2.01	ppb	
88) Benzo[a]anthracene	11.701	228	112077	2.07	ppb	97
89) 3,3'-Dichlorobenzidine	11.695	252	37996	1.95	ppb	94
90) Chrysene	11.743	228	99968	2.17	ppb	98
91) bis(2-Ethylhexyl)phtha...	11.829	149	63448	1.95	ppb	98
93) Di-n-octylphthalate	12.765	149	112604	1.85	ppb	97
94) Benzo[b]fluoranthene	13.214	252	102926	1.90	ppb	98
95) Benzo[k]fluoranthene	13.252	252	96745	2.06	ppb	97
96) Benzo[a]pyrene	13.642	252	91664	2.00	ppb	95
97) Indeno[1,2,3-cd]pyrene	15.124	276	110405	2.09	ppb	91
98) Dibenz(a,h)acridine	14.808	279	68785	1.91	ppb	100
99) Dibenz[a,h]anthracene	15.150	278	82865	1.96	ppb	96
100) 7,12-Dimethylbenz(a)an...	13.198	256	39165	1.75	ppb	96
101) Benzo[g,h,i]perylene	15.509	276	81830	1.96	ppb	97

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

Data Path : C:\msdchem\1\DATA\2P1691\
Data File : 2p40353.D
Acq On : 5 Sep 2014 2:34 pm
Operator : harpreek
Sample : ic1691-2
Misc : op77543,e2p1691,1000,,,1,1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 08 09:13:44 2014
Quant Method : C:\MSDCHEM\1\METHODS\M2P1691.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri Sep 05 14:44:33 2014
Response via : Initial Calibration



Manual Integration Approval Summary

Sample Number:

E2P1691-IC1691

Method:

SW846 8270D

Lab FileID:

2P40353.D

Analyst approved:

09/08/14 09:18 Kristi Schollenberger

Injection Time:

09/05/14 14:34

Supervisor approved:

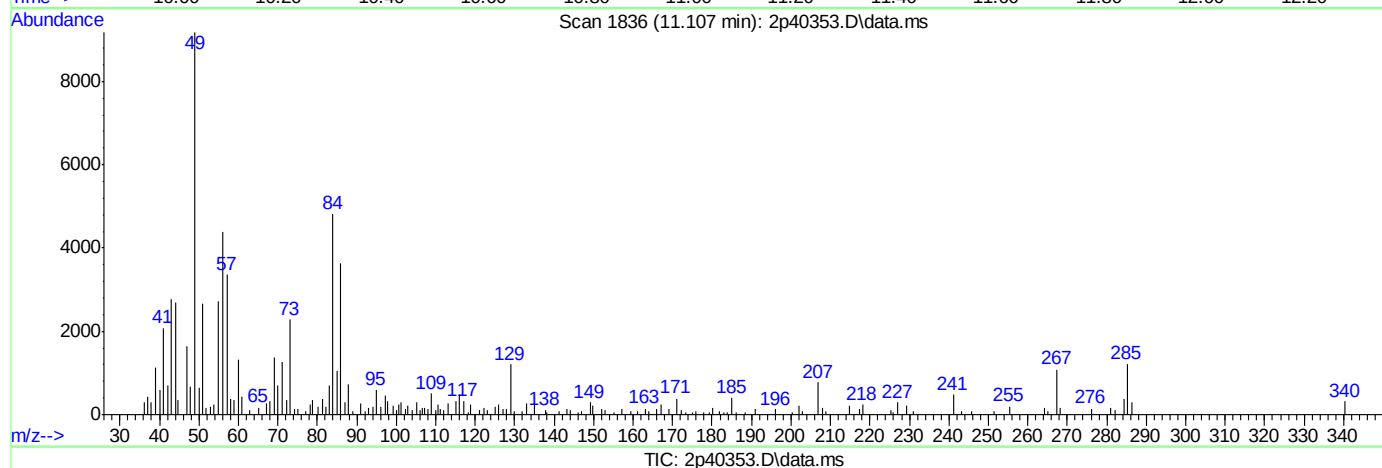
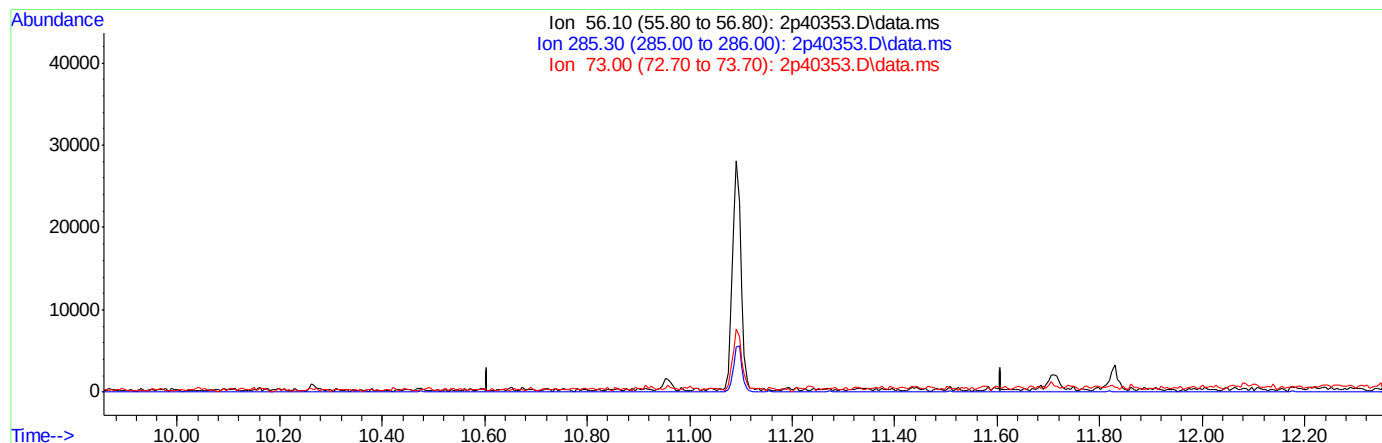
09/08/14 09:30 Nina Pandya

Parameter	CAS	Sig#	R.T. (min.)	Reason
Butyl Stearate	123-95-5		11.09	Missed peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2P1691\
Data File : 2p40353.D
Acq On : 5 Sep 2014 2:34 pm
Operator : harpreek
Sample : ic1691-2
Misc : op77543,e2p1691,1000,,,1,1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 05 16:03:38 2014
Quant Method : C:\MSDCHEM\1\METHODS\M2P1691.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri Sep 05 14:44:33 2014
Response via : Initial Calibration



(87) Butyl stearate

11.107min 0.00ppb d

response 0

Ion	Exp%	Act%
56.10	100	0.00
285.30	24.50	0.00
73.00	25.20	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P1691\
 Data File : 2p40354.D
 Acq On : 5 Sep 2014 2:57 pm
 Operator : harpreek
 Sample : icc1691-25
 Misc : op77543,e2p1691,1000,,,1,1
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 05 16:04:54 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M2P1691.M
 Quant Title : Semi Volatile Extractables by GC/MS
 QLast Update : Fri Sep 05 14:44:33 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.646	152	524651	40.00	ppb	0.00
24) Naphthalene-d8	5.694	136	1899492	40.00	ppb	0.00
47) Acenaphthene-d10	7.138	164	1047952	40.00	ppb	0.00
69) Phenanthrene-d10	8.427	188	1808209	40.00	ppb	-0.01
83) Chrysene-d12	11.717	240	1845983	40.00	ppb	-0.02
92) Perylene-d12	13.728	264	1645527	40.00	ppb	-0.02
102) 1,4-Dichlorobenzene-d4a	4.646	152	524651	40.00	ppb	0.00
104) Acenaphthene-d10a	7.138	164	1047952	40.00	ppb	0.00
107) Chrysene-d12a	11.717	240	1845983	40.00	ppb	-0.02

System Monitoring Compounds

5) 2-Fluorophenol	3.582	112	380345	26.08	ppb	0.00
Spiked Amount 50.000	Range 11 - 58		Recovery =	52.16%		
8) Phenol-d5	4.395	99	444477	24.40	ppb	0.00
Spiked Amount 50.000	Range 10 - 59		Recovery =	48.80%		
25) Nitrobenzene-d5	5.111	82	377969	24.74	ppb	0.00
Spiked Amount 50.000	Range 19 - 61		Recovery =	49.48%		
51) 2-Fluorobiphenyl	6.582	172	852275	25.55	ppb	0.00
Spiked Amount 50.000	Range 21 - 58		Recovery =	51.10%		
73) 2,4,6-Tribromophenol	7.796	330	129347	23.47	ppb	-0.01
Spiked Amount 50.000	Range 12 - 68		Recovery =	46.94%		
85) Terphenyl-d14	10.267	244	920268	23.41	ppb	-0.01
Spiked Amount 50.000	Range 16 - 65		Recovery =	46.82%		

Target Compounds

						Qvalue
2) 1,4-Dioxane	1.934	88	134285	27.70	ppb	93
3) Pyridine	2.293	79	323762	22.16	ppb	97
4) N-Nitrosodimethylamine	2.260	74	186259	22.43	ppb	96
6) Indene	4.860	116	638274	23.89	ppb	100
7) Cumene	3.972	105	964133	24.03	ppb	99
9) Phenol	4.405	94	479186	23.52	ppb	92
10) Aniline	4.378	93	586685	26.36	ppb	96
11) bis(2-Chloroethyl)ether	4.432	93	317295	24.58	ppb	99
12) 2-Chlorophenol	4.485	128	438131	24.18	ppb	99
13) Decane	4.518	57	438878	24.70	ppb	95
14) 1,3-Dichlorobenzene	4.598	146	483609	23.35	ppb	100
15) 1,4-Dichlorobenzene	4.662	146	494376	23.42	ppb	99
16) Benzyl alcohol	4.780	108	257390	24.71	ppb	99
17) 1,2-Dichlorobenzene	4.785	146	461943	24.02	ppb	98
18) Acetophenone	4.988	105	522555	23.75	ppb	70
19) 2-Methylphenol	4.892	108	331524	24.86	ppb	99
20) 2,2'-oxybis(1-Chloropr...	4.881	121	102518	22.75	ppb	99
21) 3&4-Methylphenol	5.020	108	353253	24.48	ppb	95
22) n-Nitroso-di-n-propyla...	4.988	70	228210	23.57	ppb	94
23) Hexachloroethane	5.058	201	185310	24.07	ppb	94
26) Nitrobenzene	5.127	77	356916	23.38	ppb	100
27) Quinoline	5.994	129	735747	23.46	ppb	98
28) Isophorone	5.320	82	599366	23.12	ppb	97
29) 2-Nitrophenol	5.389	139	239475	23.56	ppb	93

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P1691\
 Data File : 2p40354.D
 Acq On : 5 Sep 2014 2:57 pm
 Operator : harpreek
 Sample : icc1691-25
 Misc : op77543,e2p1691,1000,,,1,1
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 05 16:04:54 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M2P1691.M
 Quant Title : Semi Volatile Extractables by GC/MS
 QLast Update : Fri Sep 05 14:44:33 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
30) 2,4-Dimethylphenol	5.443	107	374841	24.80	ppb	99
31) Benzoic acid	5.566	105	259793	22.52	ppb	96
32) bis(2-Chloroethoxy)met...	5.502	93	366705	23.51	ppb	99
33) 2,4-Dichlorophenol	5.603	162	351102	23.10	ppb	98
34) 2,6-Dichlorophenol	5.774	162	350060	23.39	ppb	96
35) 1,3,5-Trichlorobenzene	5.395	180	433835	24.60	ppb	99
36) 1,2,4-Trichlorobenzene	5.651	180	400599	23.66	ppb	98
37) 1,2,3-Trichlorobenzene	5.833	180	390441	24.76	ppb	99
38) Naphthalene	5.710	128	1197203	23.90	ppb	100
39) 4-Chloroaniline	5.769	127	517113	25.04	ppb	98
40) 2,3-Dichloroaniline	6.518	161	425397	23.09	ppb	99
41) Caprolactam	6.063	113	103880	24.78	ppb	95
42) Hexachlorobutadiene	5.817	225	221241	23.64	ppb	99
43) 4-Chloro-3-methylphenol	6.197	107	327720	23.61	ppb	99
44) 2-Methylnaphthalene	6.283	141	768080	24.16	ppb	98
45) 1-Methylnaphthalene	6.363	141	707962	23.78	ppb	97
46) Dimethylnaphthalene	6.796	156	698054	23.66	ppb	100
48) Hexachlorocyclopentadiene	6.411	237	287079	47.73	ppb	100
49) 2,4,6-Trichlorophenol	6.534	196	246222	24.65	ppb	98
50) 2,4,5-Trichlorophenol	6.577	196	262197	25.31	ppb	98
52) 2-Chloronaphthalene	6.684	162	739510	24.56	ppb	99
53) Biphenyl	6.668	154	982914	24.73	ppb	100
54) 2-Nitroaniline	6.780	65	241956	24.04	ppb	94
55) Dimethylphthalate	6.919	163	806254	23.74	ppb	99
56) Acenaphthylene	7.021	152	1305787	24.90	ppb	99
57) 2,6-Dinitrotoluene	6.973	165	191250	23.33	ppb	94
58) 3-Nitroaniline	7.117	138	239494	24.91	ppb	100
59) Acenaphthene	7.165	153	828709	24.85	ppb	99
60) 2,4-Dinitrophenol	7.219	184	222929	42.71	ppb	94
61) 4-Nitrophenol	7.304	109	108556	27.48	ppb	# 1
62) Dibenzofuran	7.304	168	1133079	24.68	ppb	94
63) 2,4-Dinitrotoluene	7.315	165	260184	24.67	ppb	89
64) 2,3,4,6-Tetrachlorophenol	7.422	232	210423	23.22	ppb	90
65) Diethylphthalate	7.497	149	811471	24.25	ppb	99
66) Fluorene	7.588	166	912505	25.52	ppb	100
67) 4-Chlorophenyl-phenyle...	7.582	204	396268	24.19	ppb	91
68) 4-Nitroaniline	7.625	138	230586	25.42	ppb	98
70) 4,6-Dinitro-2-methylph...	7.657	198	155527	26.30	ppb	97
71) n-Nitrosodiphenylamine	7.689	169	567466	23.96	ppb	99
72) 1,2-Diphenylhydrazine	7.716	77	694173	24.89	ppb	95
74) 4-Bromophenyl-phenylether	8.005	248	234181	23.09	ppb	97
75) Hexachlorobenzene	8.074	284	280721	23.10	ppb	93
76) Pentachlorophenol	8.267	266	291095	46.74	ppb	99
77) Phenanthrene	8.449	178	1300406	24.19	ppb	100
78) Anthracene	8.502	178	1340888	25.26	ppb	100
79) Carbazole	8.673	167	1142047	24.90	ppb	99
80) Di-n-butylphthalate	9.042	149	1418340	23.97	ppb	100
81) Fluoranthene	9.765	202	1553235	24.66	ppb	99
82) Octadecane	8.320	43	354487	26.40	ppb	89
84) Pyrene	10.048	202	1591923	24.03	ppb	100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P1691\
Data File : 2p40354.D
Acq On : 5 Sep 2014 2:57 pm
Operator : harpreek
Sample : icc1691-25
Misc : op77543,e2p1691,1000,,,1,1
ALS Vial : 7 Sample Multiplier: 1

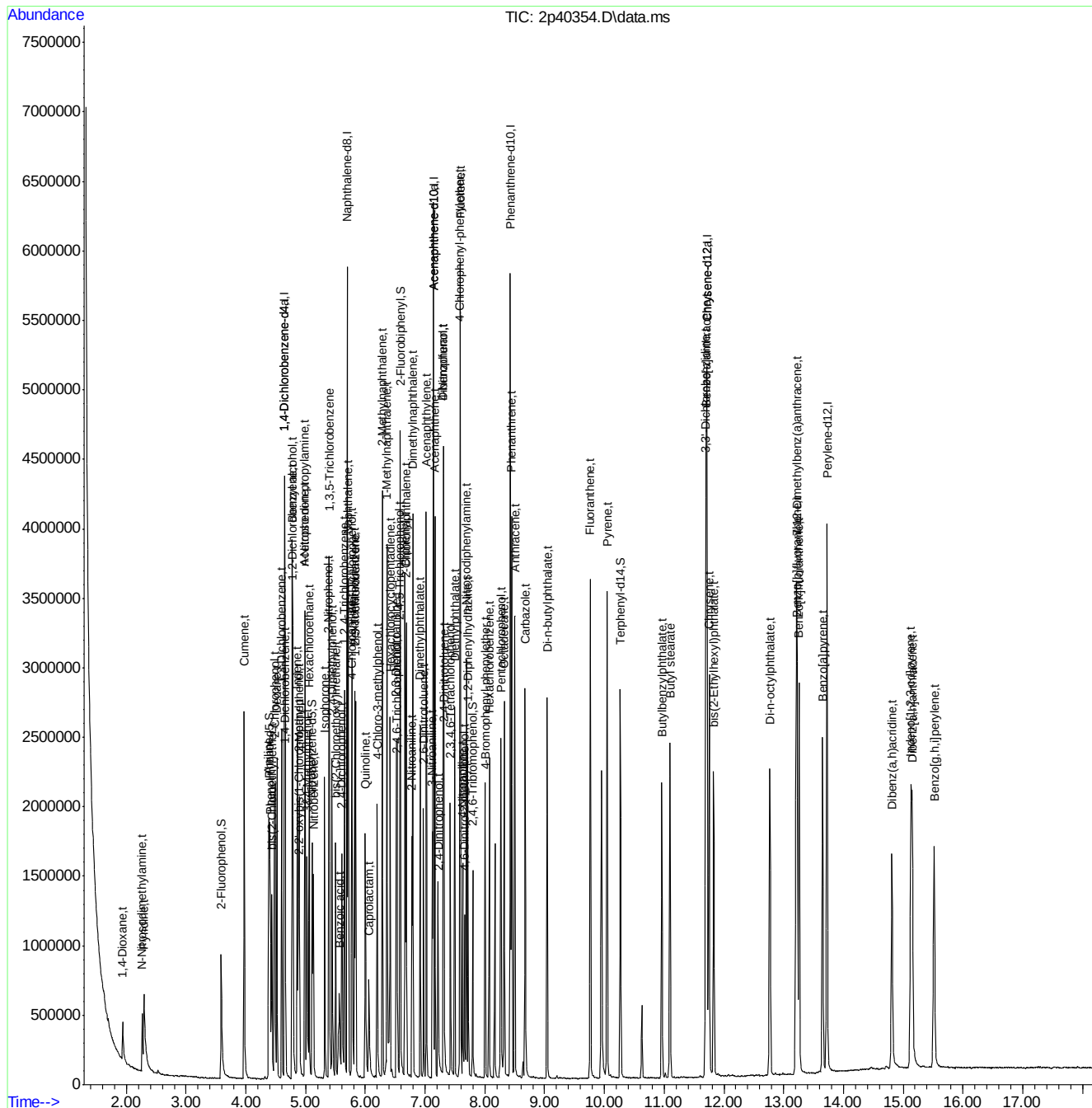
Quant Time: Sep 05 16:04:54 2014
Quant Method : C:\MSDCHEM\1\METHODS\M2P1691.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri Sep 05 14:44:33 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
86) Butylbenzylphthalate	10.957	149	646958	23.39	ppb	95
87) Butyl stearate	11.096	56	438207	24.94	ppb	99
88) Benzo[a]anthracene	11.701	228	1400595	23.58	ppb	100
89) 3,3'-Dichlorobenzidine	11.695	252	492918	23.05	ppb	99
90) Chrysene	11.754	228	1209763	24.02	ppb	100
91) bis(2-Ethylhexyl)phtha...	11.829	149	839196	23.61	ppb	98
93) Di-n-octylphthalate	12.770	149	1521303	23.10	ppb	99
94) Benzo[b]fluoranthene	13.225	252	1379275	23.53	ppb	99
95) Benzo[k]fluoranthene	13.257	252	1281916	25.18	ppb	99
96) Benzo[a]pyrene	13.653	252	1192859	23.98	ppb	98
97) Indeno[1,2,3-cd]pyrene	15.129	276	1371426	23.91	ppb	97
98) Dibenz(a,h)acridine	14.814	279	928369	23.74	ppb	98
99) Dibenz[a,h]anthracene	15.156	278	1101103	24.03	ppb	99
100) 7,12-Dimethylbenz(a)an...	13.214	256	581838	23.91	ppb	97
101) Benzo[g,h,i]perylene	15.520	276	1095082	24.15	ppb	97

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

Data Path : C:\msdchem\1\DATA\2P1691\
Data File : 2p40354.D
Acq On : 5 Sep 2014 2:57 pm
Operator : harpreek
Sample : icc1691-25
Misc : op77543,e2p1691,1000,,,1,1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 05 16:04:54 2014
Quant Method : C:\MSDCHEM\1\METHODS\M2P1691.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri Sep 05 14:44:33 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P1691\
 Data File : 2p40355.D
 Acq On : 5 Sep 2014 3:21 pm
 Operator : harpreek
 Sample : icc1691-5
 Misc : op77543,e2p1691,1000,,,1,1
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 05 16:21:11 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M2P1691.M
 Quant Title : Semi Volatile Extractables by GC/MS
 QLast Update : Fri Sep 05 16:09:20 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.646	152	456947	40.00	ppb	0.00
24) Naphthalene-d8	5.694	136	1722210	40.00	ppb	0.00
47) Acenaphthene-d10	7.133	164	950810	40.00	ppb	-0.01
69) Phenanthrene-d10	8.422	188	1610372	40.00	ppb	-0.02
83) Chrysene-d12	11.711	240	1640227	40.00	ppb	-0.02
92) Perylene-d12	13.728	264	1494763	40.00	ppb	-0.02
102) 1,4-Dichlorobenzene-d4a	4.646	152	456947	40.00	ppb	0.00
104) Acenaphthene-d10a	7.133	164	950810	40.00	ppb	-0.01
107) Chrysene-d12a	11.711	240	1640227	40.00	ppb	-0.02

System Monitoring Compounds

5) 2-Fluorophenol	3.592	112	46686	3.80	ppb	0.01
Spiked Amount	50.000	Range 11 - 58	Recovery	=	7.60%#	
8) Phenol-d5	4.400	99	73883	4.74	ppb	0.00
Spiked Amount	50.000	Range 10 - 59	Recovery	=	9.48%#	
25) Nitrobenzene-d5	5.111	82	64717	4.66	ppb	0.00
Spiked Amount	50.000	Range 19 - 61	Recovery	=	9.32%#	
51) 2-Fluorobiphenyl	6.582	172	151574	4.90	ppb	0.00
Spiked Amount	50.000	Range 21 - 58	Recovery	=	9.80%#	
73) 2,4,6-Tribromophenol	7.796	330	20907	4.43	ppb	-0.01
Spiked Amount	50.000	Range 12 - 68	Recovery	=	8.86%#	
85) Terphenyl-d14	10.267	244	156265	4.60	ppb	-0.01
Spiked Amount	50.000	Range 16 - 65	Recovery	=	9.20%#	

Target Compounds

						Qvalue
2) 1,4-Dioxane	1.939	88	23985	5.27	ppb	90
3) Pyridine	2.330	79	55291	4.65	ppb	96
4) N-Nitrosodimethylamine	2.282	74	29190	4.34	ppb	94
6) Indene	4.860	116	113994	4.90	ppb	98
7) Cumene	3.972	105	165791	4.78	ppb	97
9) Phenol	4.410	94	83236	4.74	ppb	94
10) Aniline	4.384	93	95092	4.82	ppb	98
11) bis(2-Chloroethyl)ether	4.437	93	60898	5.33	ppb	95
12) 2-Chlorophenol	4.491	128	75793	4.78	ppb	97
13) Decane	4.517	57	79192	4.94	ppb	92
14) 1,3-Dichlorobenzene	4.598	146	86833	4.83	ppb	96
15) 1,4-Dichlorobenzene	4.656	146	88521	4.83	ppb	95
16) Benzyl alcohol	4.790	108	39645	4.50	ppb	94
17) 1,2-Dichlorobenzene	4.785	146	82227	4.86	ppb	98
18) Acetophenone	4.988	105	93874	4.90	ppb	99
19) 2-Methylphenol	4.892	108	61653	5.15	ppb	97
20) 2,2'-oxybis(1-Chloropr...	4.881	121	19031	4.85	ppb	93
21) 3&4-Methylphenol	5.026	108	63761	5.06	ppb	97
22) n-Nitroso-di-n-propyla...	4.988	70	39526	4.73	ppb	96
23) Hexachloroethane	5.058	201	34299	5.01	ppb	98
26) Nitrobenzene	5.127	77	65626	4.74	ppb	95
27) Quinoline	5.994	129	128166	4.63	ppb	98
28) Isophorone	5.320	82	103343	4.54	ppb	97
29) 2-Nitrophenol	5.395	139	40727	4.57	ppb #	62

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P1691\
 Data File : 2p40355.D
 Acq On : 5 Sep 2014 3:21 pm
 Operator : harpreek
 Sample : icc1691-5
 Misc : op77543,e2p1691,1000,,,1,1
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 05 16:21:11 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M2P1691.M
 Quant Title : Semi Volatile Extractables by GC/MS
 QLast Update : Fri Sep 05 16:09:20 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
30) 2,4-Dimethylphenol	5.448	107	65968	4.79	ppb	98
31) Benzoic acid	5.550	105	33541	3.71	ppb	94
32) bis(2-Chloroethoxy)met...	5.502	93	67698	4.82	ppb	98
33) 2,4-Dichlorophenol	5.614	162	60623	4.59	ppb	96
34) 2,6-Dichlorophenol	5.780	162	60276	4.57	ppb	96
35) 1,3,5-Trichlorobenzene	5.395	180	76790	4.80	ppb	95
36) 1,2,4-Trichlorobenzene	5.651	180	72382	4.74	ppb	97
37) 1,2,3-Trichlorobenzene	5.833	180	70284	4.87	ppb	96
38) Naphthalene	5.710	128	220536	4.84	ppb	99
39) 4-Chloroaniline	5.774	127	90039	4.76	ppb	96
40) 2,3-Dichloroaniline	6.523	161	78525	4.76	ppb	97
41) Caprolactam	6.042	113	18287	4.80	ppb	# 77
42) Hexachlorobutadiene	5.817	225	43202	5.04	ppb	89
43) 4-Chloro-3-methylphenol	6.197	107	56087	4.56	ppb	93
44) 2-Methylnaphthalene	6.282	141	132891	4.67	ppb	96
45) 1-Methylnaphthalene	6.363	141	125895	4.67	ppb	95
46) Dimethylnaphthalene	6.796	156	126394	4.75	ppb	99
48) Hexachlorocyclopentadiene	6.411	237	20839	11.64	ppb	95
49) 2,4,6-Trichlorophenol	6.534	196	41132	4.59	ppb	98
50) 2,4,5-Trichlorophenol	6.582	196	47718	4.98	ppb	89
52) 2-Chloronaphthalene	6.684	162	133524	4.85	ppb	96
53) Biphenyl	6.662	154	176338	4.88	ppb	98
54) 2-Nitroaniline	6.780	65	45239	4.94	ppb	96
55) Dimethylphthalate	6.914	163	140303	4.63	ppb	98
56) Acenaphthylene	7.021	152	228848	4.81	ppb	99
57) 2,6-Dinitrotoluene	6.972	165	32759	4.53	ppb	92
58) 3-Nitroaniline	7.122	138	41632	4.82	ppb	99
59) Acenaphthene	7.160	153	151153	4.92	ppb	97
60) 2,4-Dinitrophenol	7.224	184	21119	4.98	ppb	# 49
61) 4-Nitrophenol	7.320	109	18000	4.94	ppb	# 10
62) Dibenzofuran	7.304	168	198430	4.79	ppb	98
63) 2,4-Dinitrotoluene	7.315	165	44896	4.71	ppb	76
64) 2,3,4,6-Tetrachlorophenol	7.427	232	36191	4.61	ppb	94
65) Diethylphthalate	7.491	149	143449	4.76	ppb	97
66) Fluorene	7.587	166	154083	4.70	ppb	94
67) 4-Chlorophenyl-phenyle...	7.582	204	69057	4.75	ppb	90
68) 4-Nitroaniline	7.625	138	39942	4.92	ppb	95
70) 4,6-Dinitro-2-methylph...	7.657	198	21745	4.10	ppb	93
71) n-Nitrosodiphenylamine	7.684	169	103054	4.82	ppb	97
72) 1,2-Diphenylhydrazine	7.716	77	122798	4.86	ppb	98
74) 4-Bromophenyl-phenylether	8.005	248	39226	4.48	ppb	92
75) Hexachlorobenzene	8.069	284	48858	4.61	ppb	93
76) Pentachlorophenol	8.267	266	39445	7.30	ppb	96
77) Phenanthrene	8.449	178	231783	4.81	ppb	99
78) Anthracene	8.497	178	236566	4.88	ppb	100
79) Carbazole	8.673	167	198563	4.82	ppb	98
80) Di-n-butylphthalate	9.042	149	239159	4.61	ppb	99
81) Fluoranthene	9.764	202	258803	4.64	ppb	99
82) Octadecane	8.320	43	64634	5.11	ppb	85
84) Pyrene	10.043	202	280700	4.80	ppb	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P1691\
Data File : 2p40355.D
Acq On : 5 Sep 2014 3:21 pm
Operator : harpreek
Sample : icc1691-5
Misc : op77543,e2p1691,1000,,,1,1
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 05 16:21:11 2014
Quant Method : C:\MSDCHEM\1\METHODS\M2P1691.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri Sep 05 16:09:20 2014
Response via : Initial Calibration

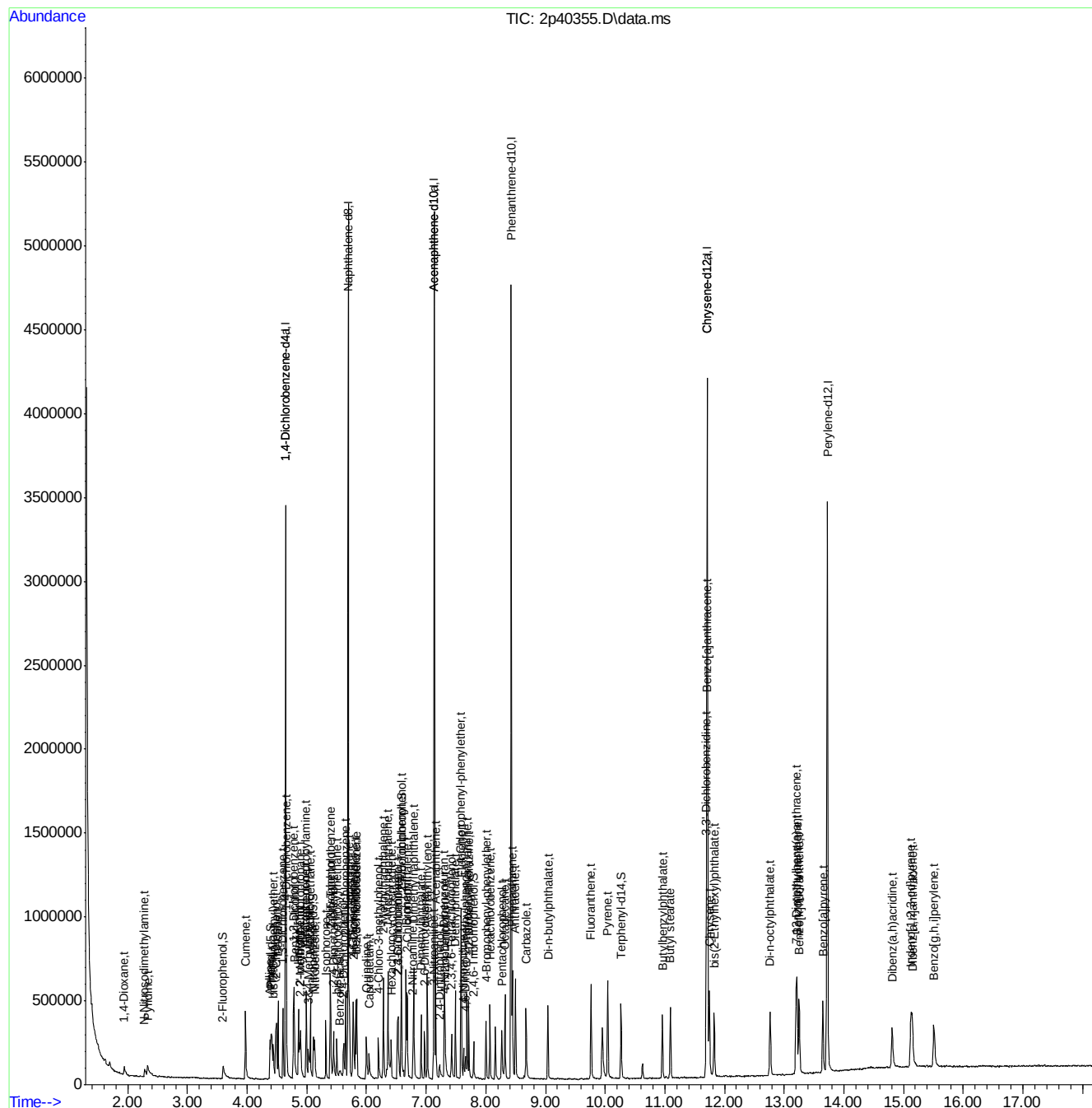
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
86) Butylbenzylphthalate	10.957	149	111382	4.66	ppb	98
87) Butyl stearate	11.091	56	74964	4.79	ppb	96
88) Benzo[a]anthracene	11.701	228	245935	4.71	ppb	96
89) 3,3'-Dichlorobenzidine	11.695	252	81192	4.43	ppb	94
90) Chrysene	11.749	228	215197	4.78	ppb	99
91) bis(2-Ethylhexyl)phtha...	11.829	149	146871	4.75	ppb	100
93) Di-n-octylphthalate	12.765	149	259335	4.53	ppb	99
94) Benzo[b]fluoranthene	13.214	252	229368	4.47	ppb	98
95) Benzo[k]fluoranthene	13.252	252	230400	4.93	ppb	100
96) Benzo[a]pyrene	13.648	252	203082	4.59	ppb	98
97) Indeno[1,2,3-cd]pyrene	15.129	276	235506	4.58	ppb	96
98) Dibenz(a,h)acridine	14.808	279	154699	4.51	ppb	96
99) Dibenz[a,h]anthracene	15.150	278	189391	4.65	ppb	96
100) 7,12-Dimethylbenz(a)an...	13.204	256	94099	4.48	ppb	97
101) Benzo[g,h,i]perylene	15.509	276	186584	4.62	ppb	98

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P1691\
Data File : 2p40355.D
Acq On : 5 Sep 2014 3:21 pm
Operator : harpreek
Sample : icc1691-5
Misc : op77543,e2p1691,1000,,,1,1
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 05 16:21:11 2014
Quant Method : C:\MSDCHEM\1\METHODS\M2P1691.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri Sep 05 16:09:20 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P1691\
 Data File : 2p40356.D
 Acq On : 5 Sep 2014 3:44 pm
 Operator : harpreek
 Sample : icc1691-10
 Misc : op77543,e2p1691,1000,,,1,1
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 05 16:08:42 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M2P1691.M
 Quant Title : Semi Volatile Extractables by GC/MS
 QLast Update : Fri Sep 05 14:44:33 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.646	152	450053	40.00	ppb	0.00
24) Naphthalene-d8	5.694	136	1658998	40.00	ppb	0.00
47) Acenaphthene-d10	7.138	164	934088	40.00	ppb	0.00
69) Phenanthrene-d10	8.427	188	1556817	40.00	ppb	-0.01
83) Chrysene-d12	11.711	240	1592207	40.00	ppb	-0.02
92) Perylene-d12	13.723	264	1453849	40.00	ppb	-0.02
102) 1,4-Dichlorobenzene-d4a	4.646	152	450053	40.00	ppb	0.00
104) Acenaphthene-d10a	7.138	164	934088	40.00	ppb	0.00
107) Chrysene-d12a	11.711	240	1592207	40.00	ppb	-0.02

System Monitoring Compounds

5) 2-Fluorophenol	3.587	112	129243	10.33	ppb	0.00
Spiked Amount	50.000	Range 11 - 58	Recovery	=	20.66%	
8) Phenol-d5	4.395	99	156681	10.03	ppb	0.00
Spiked Amount	50.000	Range 10 - 59	Recovery	=	20.06%	
25) Nitrobenzene-d5	5.111	82	140259	10.51	ppb	0.00
Spiked Amount	50.000	Range 19 - 61	Recovery	=	21.02%	
51) 2-Fluorobiphenyl	6.582	172	313270	10.53	ppb	0.00
Spiked Amount	50.000	Range 21 - 58	Recovery	=	21.06%	
73) 2,4,6-Tribromophenol	7.796	330	46557	9.81	ppb	-0.01
Spiked Amount	50.000	Range 12 - 68	Recovery	=	19.62%	
85) Terphenyl-d14	10.267	244	327513	9.66	ppb	-0.01
Spiked Amount	50.000	Range 16 - 65	Recovery	=	19.32%	

Target Compounds

						Qvalue
2) 1,4-Dioxane	1.940	88	48911	11.76	ppb	98
3) Pyridine	2.309	79	113292	9.04	ppb	96
4) N-Nitrosodimethylamine	2.271	74	63400	8.90	ppb	98
6) Indene	4.855	116	234255	10.22	ppb	99
7) Cumene	3.972	105	351546	10.21	ppb	98
9) Phenol	4.405	94	184415	10.55	ppb	90
10) Aniline	4.384	93	208561	10.92	ppb	98
11) bis(2-Chloroethyl)ether	4.432	93	114956	10.38	ppb	98
12) 2-Chlorophenol	4.485	128	158254	10.18	ppb	95
13) Decane	4.518	57	166626	10.93	ppb	97
14) 1,3-Dichlorobenzene	4.598	146	179085	10.08	ppb	95
15) 1,4-Dichlorobenzene	4.657	146	180015	9.94	ppb	97
16) Benzyl alcohol	4.780	108	89726	10.04	ppb	89
17) 1,2-Dichlorobenzene	4.785	146	170767	10.35	ppb	98
18) Acetophenone	4.988	105	186786	9.90	ppb	# 68
19) 2-Methylphenol	4.892	108	120607	10.54	ppb	96
20) 2,2'-oxybis(1-Chloropr...	4.876	121	39881	10.32	ppb	98
21) 3&4-Methylphenol	5.020	108	131314	10.61	ppb	97
22) n-Nitroso-di-n-propyla...	4.988	70	84648	10.19	ppb	96
23) Hexachloroethane	5.058	201	69204	10.48	ppb	96
26) Nitrobenzene	5.127	77	133906	10.04	ppb	96
27) Quinoline	5.994	129	267805	9.78	ppb	99
28) Isophorone	5.320	82	218326	9.64	ppb	99
29) 2-Nitrophenol	5.389	139	86031	9.69	ppb	82

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P1691\
 Data File : 2p40356.D
 Acq On : 5 Sep 2014 3:44 pm
 Operator : harpreek
 Sample : icc1691-10
 Misc : op77543,e2p1691,1000,,,1,1
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 05 16:08:42 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M2P1691.M
 Quant Title : Semi Volatile Extractables by GC/MS
 QLast Update : Fri Sep 05 14:44:33 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
30) 2,4-Dimethylphenol	5.443	107	134461	10.19	ppb	96
31) Benzoic acid	5.539	105	85009	8.44	ppb	97
32) bis(2-Chloroethoxy)met...	5.502	93	134684	9.89	ppb	98
33) 2,4-Dichlorophenol	5.609	162	125765	9.48	ppb	99
34) 2,6-Dichlorophenol	5.774	162	126865	9.71	ppb	96
35) 1,3,5-Trichlorobenzene	5.395	180	154583	10.03	ppb	99
36) 1,2,4-Trichlorobenzene	5.651	180	146104	9.88	ppb	99
37) 1,2,3-Trichlorobenzene	5.833	180	141059	10.24	ppb	97
38) Naphthalene	5.710	128	448440	10.25	ppb	99
39) 4-Chloroaniline	5.769	127	190758	10.58	ppb	99
40) 2,3-Dichloroaniline	6.518	161	160367	9.96	ppb	98
41) Caprolactam	6.047	113	36252	9.90	ppb	89
42) Hexachlorobutadiene	5.817	225	82635	10.11	ppb	99
43) 4-Chloro-3-methylphenol	6.197	107	116406	9.60	ppb	97
44) 2-Methylnaphthalene	6.283	141	281622	10.14	ppb	96
45) 1-Methylnaphthalene	6.363	141	255546	9.83	ppb	99
46) Dimethylnaphthalene	6.796	156	258200	10.02	ppb	98
48) Hexachlorocyclopentadiene	6.411	237	67928	12.67	ppb	96
49) 2,4,6-Trichlorophenol	6.529	196	86594	9.72	ppb	100
50) 2,4,5-Trichlorophenol	6.577	196	95368	10.33	ppb	95
52) 2-Chloronaphthalene	6.684	162	275568	10.27	ppb	97
53) Biphenyl	6.662	154	355051	10.02	ppb	96
54) 2-Nitroaniline	6.780	65	91016	10.15	ppb	98
55) Dimethylphthalate	6.919	163	293400	9.69	ppb	99
56) Acenaphthylene	7.021	152	471461	10.09	ppb	99
57) 2,6-Dinitrotoluene	6.973	165	68922	9.43	ppb	97
58) 3-Nitroaniline	7.117	138	84935	9.91	ppb	95
59) Acenaphthene	7.160	153	305470	10.28	ppb	98
60) 2,4-Dinitrophenol	7.219	184	57573	12.37	ppb	89
61) 4-Nitrophenol	7.310	109	39034	11.09	ppb	# 13
62) Dibenzofuran	7.304	168	400895	9.80	ppb	96
63) 2,4-Dinitrotoluene	7.315	165	95042	10.11	ppb	83
64) 2,3,4,6-Tetrachlorophenol	7.422	232	73362	9.08	ppb	88
65) Diethylphthalate	7.491	149	295237	9.90	ppb	98
66) Fluorene	7.588	166	329026	10.33	ppb	97
67) 4-Chlorophenyl-phenyle...	7.582	204	143740	9.84	ppb	92
68) 4-Nitroaniline	7.620	138	82191	10.17	ppb	86
70) 4,6-Dinitro-2-methylph...	7.657	198	49736	9.77	ppb	99
71) n-Nitrosodiphenylamine	7.684	169	217533	10.67	ppb	97
72) 1,2-Diphenylhydrazine	7.716	77	258225	10.76	ppb	98
74) 4-Bromophenyl-phenylether	8.000	248	84017	9.62	ppb	92
75) Hexachlorobenzene	8.069	284	103666	9.91	ppb	95
76) Pentachlorophenol	8.267	266	87221	16.27	ppb	96
77) Phenanthrene	8.449	178	477540	10.32	ppb	99
78) Anthracene	8.497	178	495072	10.83	ppb	99
79) Carbazole	8.673	167	413378	10.47	ppb	99
80) Di-n-butylphthalate	9.043	149	506720	9.95	ppb	98
81) Fluoranthene	9.765	202	551058	10.16	ppb	99
82) Octadecane	8.320	43	132367	11.45	ppb	90
84) Pyrene	10.043	202	580465	10.16	ppb	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P1691\
Data File : 2p40356.D
Acq On : 5 Sep 2014 3:44 pm
Operator : harpreek
Sample : icc1691-10
Misc : op77543,e2p1691,1000,,,1,1
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 05 16:08:42 2014
Quant Method : C:\MSDCHEM\1\METHODS\M2P1691.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri Sep 05 14:44:33 2014
Response via : Initial Calibration

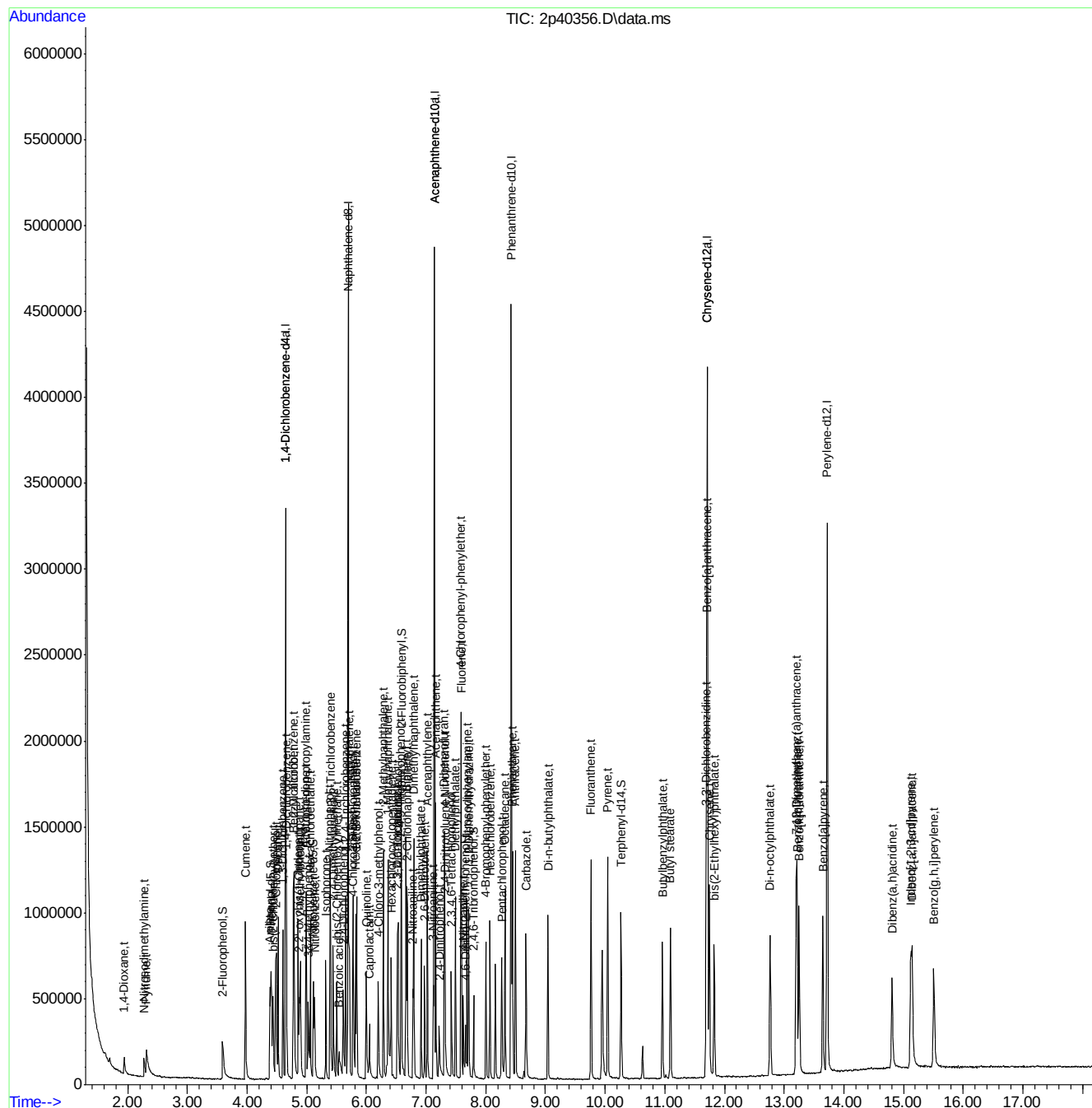
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
86) Butylbenzylphthalate	10.957	149	225923	9.47	ppb	92
87) Butyl stearate	11.091	56	159979	10.55	ppb	93
88) Benzo[a]anthracene	11.701	228	512919	10.01	ppb	99
89) 3,3'-Dichlorobenzidine	11.690	252	179203	9.72	ppb	99
90) Chrysene	11.749	228	448733	10.33	ppb	99
91) bis(2-Ethylhexyl)phtha...	11.829	149	300943	9.81	ppb	97
93) Di-n-octylphthalate	12.765	149	547789	9.42	ppb	98
94) Benzo[b]fluoranthene	13.220	252	494572	9.55	ppb	97
95) Benzo[k]fluoranthene	13.252	252	474772	10.55	ppb	98
96) Benzo[a]pyrene	13.648	252	432574	9.84	ppb	98
97) Indeno[1,2,3-cd]pyrene	15.124	276	498981	9.85	ppb	95
98) Dibenz(a,h)acridine	14.808	279	326554	9.45	ppb	99
99) Dibenz[a,h]anthracene	15.145	278	397281	9.81	ppb	98
100) 7,12-Dimethylbenz(a)an...	13.204	256	198358	9.23	ppb	91
101) Benzo[g,h,i]perylene	15.509	276	395428	9.87	ppb	99

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P1691\
 Data File : 2p40356.D
 Acq On : 5 Sep 2014 3:44 pm
 Operator : harpreek
 Sample : icc1691-10
 Misc : op77543,e2p1691,1000,,,1,1
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 05 16:08:42 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M2P1691.M
 Quant Title : Semi Volatile Extractables by GC/MS
 QLast Update : Fri Sep 05 14:44:33 2014
 Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P1692\
 Data File : 2p40358.D
 Acq On : 5 Sep 2014 4:36 pm
 Operator : harpreek
 Sample : ic1692-100
 Misc : op77543,e2p1692,1000,,,1,1
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 05 19:45:56 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M2P1691.M
 Quant Title : Semi Volatile Extractables by GC/MS
 QLast Update : Fri Sep 05 19:45:14 2014
 Response via : Initial Calibration

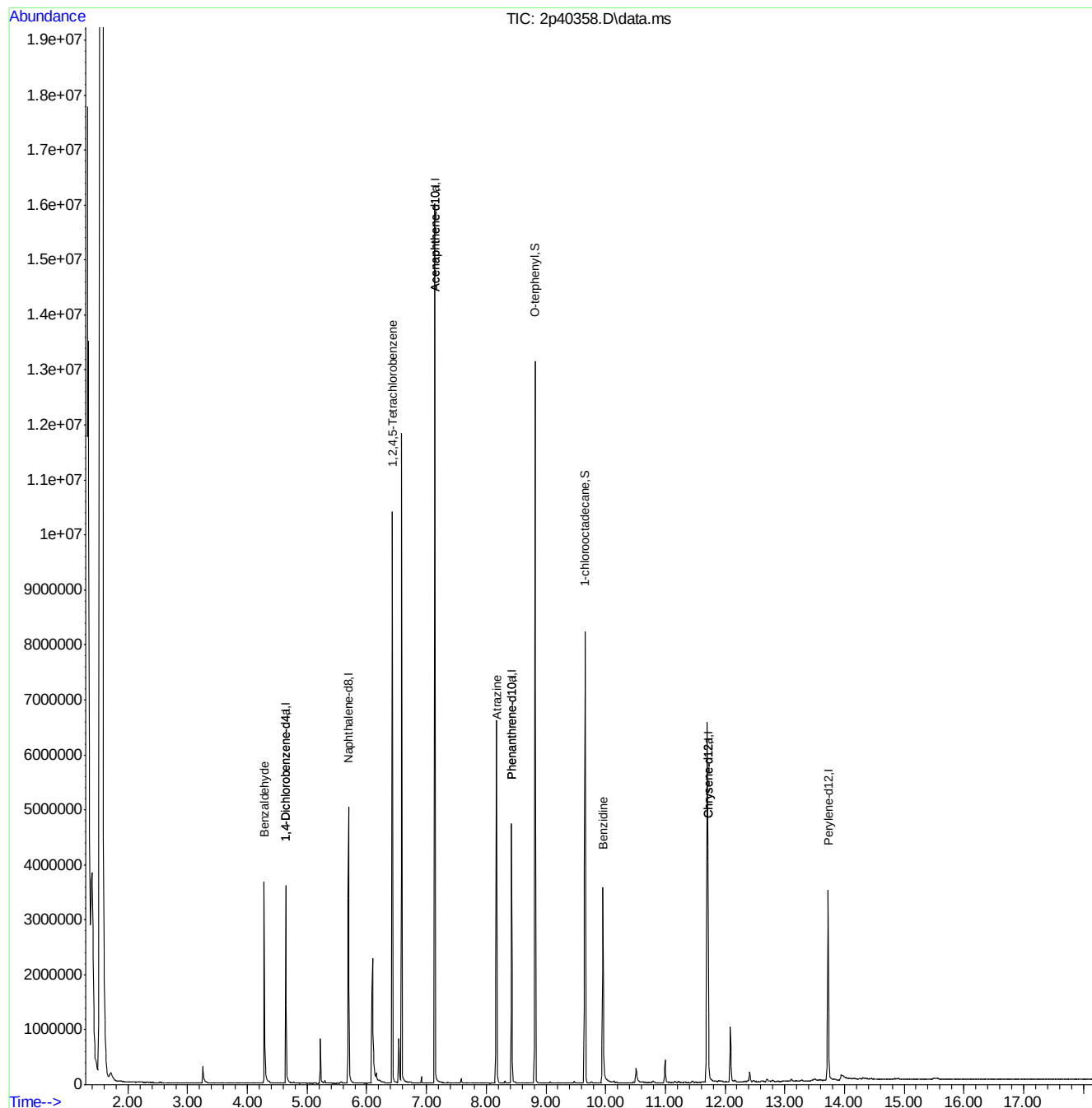
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.646	152	499148	40.00	ppb	0.00
24) Naphthalene-d8	5.694	136	1852141	40.00	ppb	0.00
47) Acenaphthene-d10	7.138	164	986796	40.00	ppb	0.00
69) Phenanthrene-d10	8.427	188	1590264	40.00	ppb	0.00
83) Chrysene-d12	11.717	240	1582360	40.00	ppb	0.00
92) Perylene-d12	13.728	264	1481007	40.00	ppb	0.00
102) 1,4-Dichlorobenzene-d4a	4.646	152	499148	40.00	ppb	0.00
104) Acenaphthene-d10a	7.138	164	986796	40.00	ppb	0.00
107) Chrysene-d12a	11.717	240	1582360	40.00	ppb	0.00
109) Phenanthrene-d10a	8.427	188	1590264	40.00	ppb	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	0.000	112	0	0.00	ppb	
Spiked Amount	50.000	Range	11 - 58	Recovery	=	0.00%#
8) Phenol-d5	0.000	99	0	0.00	ppb	
Spiked Amount	50.000	Range	10 - 59	Recovery	=	0.00%#
25) Nitrobenzene-d5	0.000	82	0	0.00	ppb	
Spiked Amount	50.000	Range	19 - 61	Recovery	=	0.00%#
51) 2-Fluorobiphenyl	0.000	172	0	0.00	ppb	
Spiked Amount	50.000	Range	21 - 58	Recovery	=	0.00%#
73) 2,4,6-Tribromophenol	0.000	330	0	0.00	ppb	
Spiked Amount	50.000	Range	12 - 68	Recovery	=	0.00%#
85) Terphenyl-d14	0.000	244	0	0.00	ppb	
Spiked Amount	50.000	Range	16 - 65	Recovery	=	0.00%#
110) 1-chlorooctadecane	9.657	57	1258017	100.00	ppb	0.00
111) 0-terphenyl	8.818	230	2323643	100.00	ppb	0.00
Target Compounds						
103) Benzaldehyde	4.282	105	625072	100.00	ppb	100
105) Atrazine	8.176	215	432410	100.00	ppb	100
106) 1,2,4,5-Tetrachloroben...	6.427	216	1594726	100.00	ppb	100
108) Benzidine	9.957	184	1782129	100.00	ppb	100

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P1692\
Data File : 2p40358.D
Acq On : 5 Sep 2014 4:36 pm
Operator : harpreek
Sample : ic1692-100
Misc : op77543,e2p1692,1000,,,1,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 05 19:45:56 2014
Quant Method : C:\MSDCHEM\1\METHODS\M2P1691.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri Sep 05 19:45:14 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P1692\
 Data File : 2p40359.D
 Acq On : 5 Sep 2014 4:59 pm
 Operator : harpreek
 Sample : ic1692-80
 Misc : op77543,e2p1692,1000,,,1,1
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 05 19:47:42 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M2P1691.M
 Quant Title : Semi Volatile Extractables by GC/MS
 QLast Update : Fri Sep 05 19:45:14 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

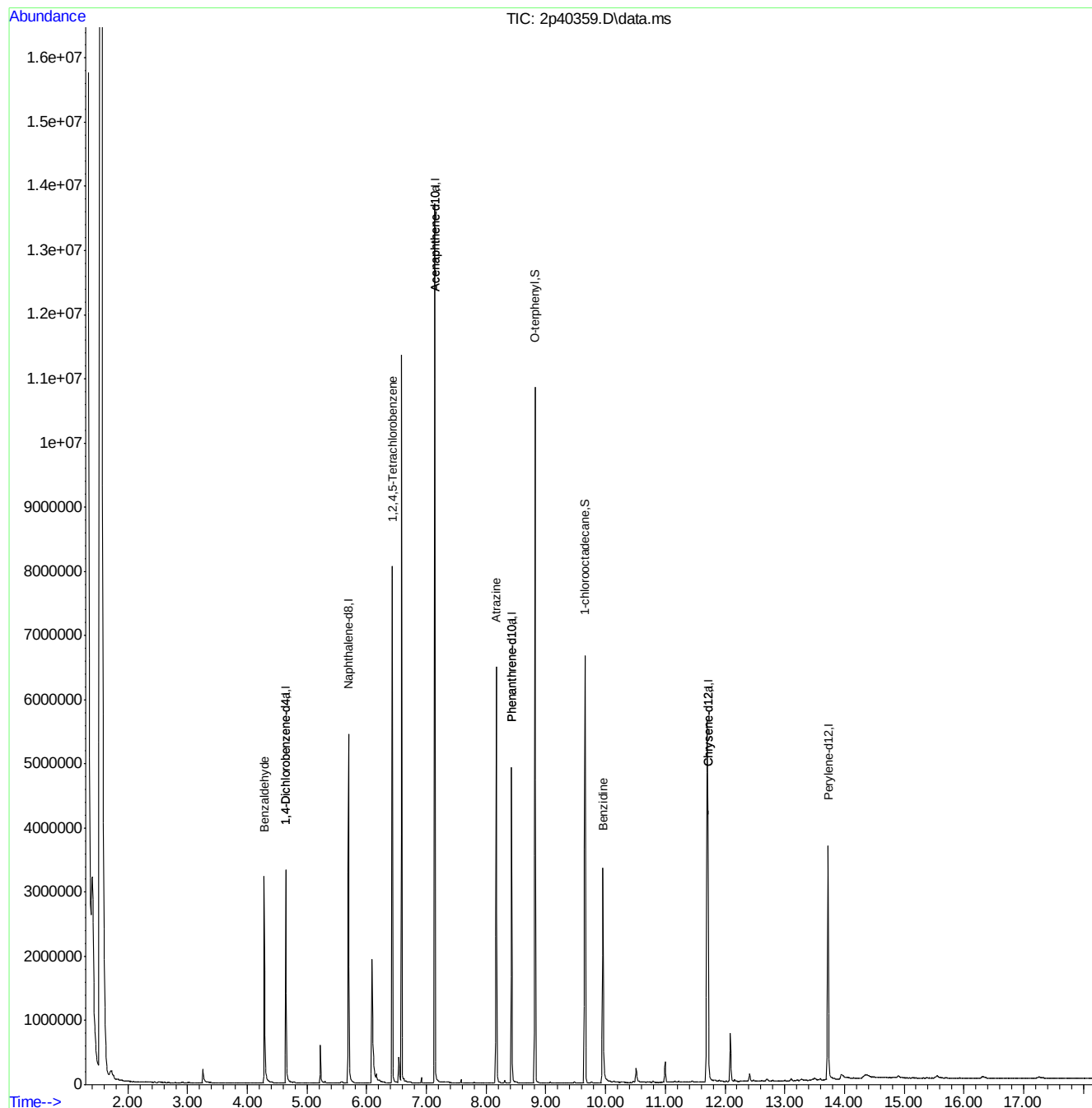
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.646	152	501568	40.00	ppb	0.00
24) Naphthalene-d8	5.694	136	1931080	40.00	ppb	0.00
47) Acenaphthene-d10	7.138	164	1035295	40.00	ppb	0.00
69) Phenanthrene-d10	8.427	188	1735828	40.00	ppb	0.00
83) Chrysene-d12	11.717	240	1699879	40.00	ppb	0.00
92) Perylene-d12	13.728	264	1595274	40.00	ppb	0.00
102) 1,4-Dichlorobenzene-d4a	4.646	152	501568	40.00	ppb	0.00
104) Acenaphthene-d10a	7.138	164	1035295	40.00	ppb	0.00
107) Chrysene-d12a	11.717	240	1699879	40.00	ppb	0.00
109) Phenanthrene-d10a	8.427	188	1735828	40.00	ppb	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	0.000	112	0	0.00	ppb	
Spiked Amount	50.000	Range	11 - 58	Recovery	=	0.00%#
8) Phenol-d5	0.000	99	0d	0.00	ppb	
Spiked Amount	50.000	Range	10 - 59	Recovery	=	0.00%#
25) Nitrobenzene-d5	0.000	82	0	0.00	ppb	
Spiked Amount	50.000	Range	19 - 61	Recovery	=	0.00%#
51) 2-Fluorobiphenyl	0.000	172	0d	0.00	ppb	
Spiked Amount	50.000	Range	21 - 58	Recovery	=	0.00%#
73) 2,4,6-Tribromophenol	0.000	330	0	0.00	ppb	
Spiked Amount	50.000	Range	12 - 68	Recovery	=	0.00%#
85) Terphenyl-d14	0.000	244	0d	0.00	ppb	
Spiked Amount	50.000	Range	16 - 65	Recovery	=	0.00%#
110) 1-chlorooctadecane	9.652	57	1075928	78.35	ppb	0.00
111) 0-terphenyl	8.818	230	1968616	77.62	ppb	0.00
Target Compounds						
103) Benzaldehyde	4.282	105	596209	94.92	ppb	100
105) Atrazine	8.171	215	364586	80.36	ppb	84
106) 1,2,4,5-Tetrachloroben...	6.427	216	1326650	79.29	ppb	99
108) Benzidine	9.957	184	1639494	85.64	ppb	99

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P1692\
Data File : 2p40359.D
Acq On : 5 Sep 2014 4:59 pm
Operator : harpreek
Sample : ic1692-80
Misc : op77543,e2p1692,1000,,,1,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 05 19:47:42 2014
Quant Method : C:\MSDCHEM\1\METHODS\M2P1691.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri Sep 05 19:45:14 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P1692\
 Data File : 2p40360.D
 Acq On : 5 Sep 2014 5:22 pm
 Operator : harpreek
 Sample : ic1692-50
 Misc : op77543,e2p1692,1000,,,1,1
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 05 19:49:16 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M2P1691.M
 Quant Title : Semi Volatile Extractables by GC/MS
 QLast Update : Fri Sep 05 19:43:14 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

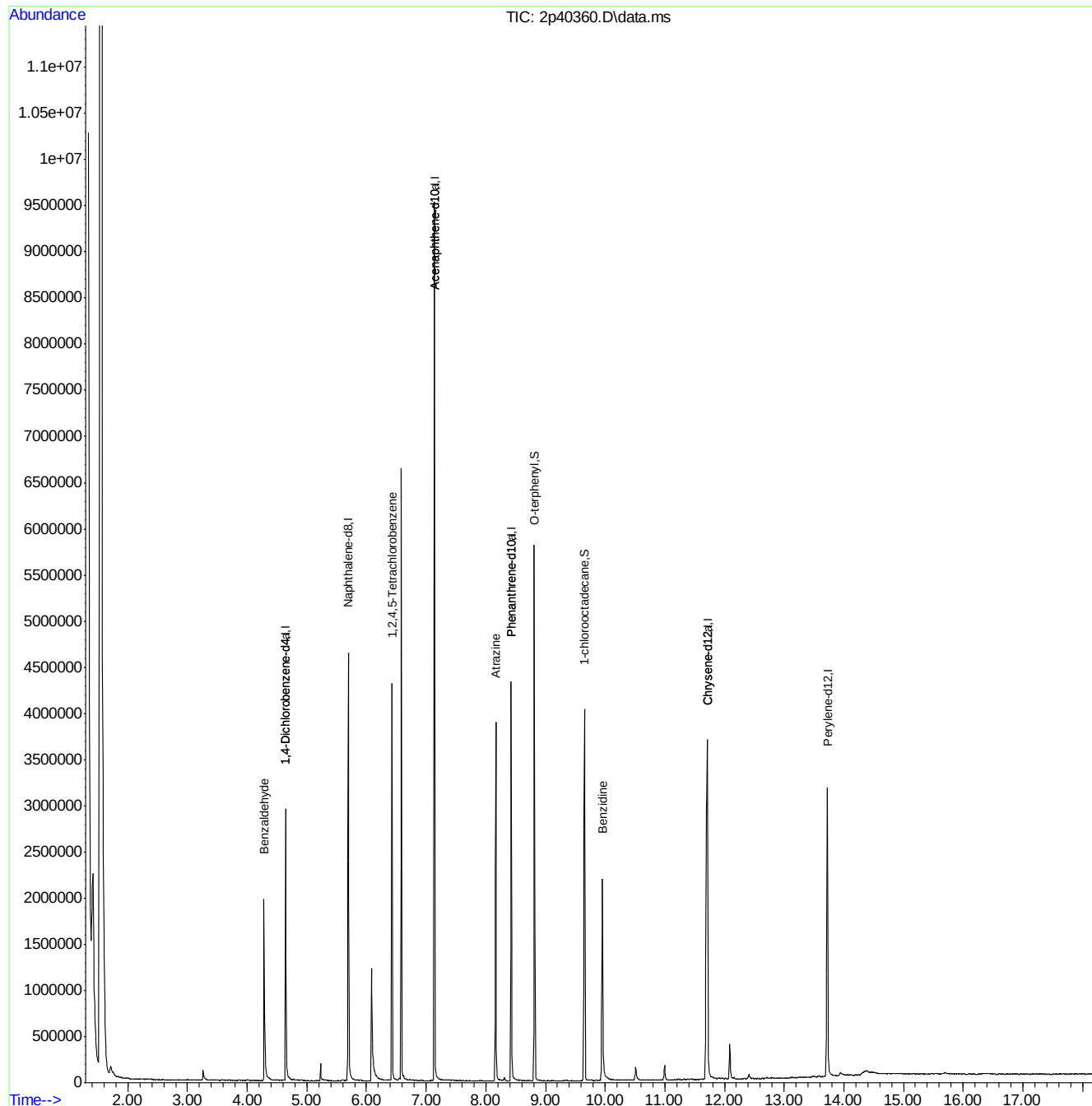
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.646	152	445125	40.00	ppb	0.00
24) Naphthalene-d8	5.694	136	1665339	40.00	ppb	0.00
47) Acenaphthene-d10	7.138	164	928562	40.00	ppb	0.00
69) Phenanthrene-d10	8.427	188	1512663	40.00	ppb	0.00
83) Chrysene-d12	11.717	240	1522336	40.00	ppb	0.00
92) Perylene-d12	13.728	264	1432372	40.00	ppb	0.00
102) 1,4-Dichlorobenzene-d4a	4.646	152	445125	40.00	ppb	0.00
104) Acenaphthene-d10a	7.138	164	928562	40.00	ppb	0.00
107) Chrysene-d12a	11.717	240	1522336	40.00	ppb	0.00
109) Phenanthrene-d10a	8.427	188	1512663	40.00	ppb	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	0.000	112	0	0.00	ppb	
Spiked Amount	50.000	Range	11 - 58	Recovery	=	0.00%#
8) Phenol-d5	0.000	99	0	0.00	ppb	
Spiked Amount	50.000	Range	10 - 59	Recovery	=	0.00%#
25) Nitrobenzene-d5	0.000	82	0	0.00	ppb	
Spiked Amount	50.000	Range	19 - 61	Recovery	=	0.00%#
51) 2-Fluorobiphenyl	0.000	172	0	0.00	ppb	
Spiked Amount	50.000	Range	21 - 58	Recovery	=	0.00%#
73) 2,4,6-Tribromophenol	0.000	330	0	0.00	ppb	
Spiked Amount	50.000	Range	12 - 68	Recovery	=	0.00%#
85) Terphenyl-d14	0.000	244	0	0.00	ppb	
Spiked Amount	50.000	Range	16 - 65	Recovery	=	0.00%#
110) 1-chlorooctadecane	9.652	57	610108	50.99	ppb	0.00
111) 0-terphenyl	8.818	230	1070539	48.44	ppb	0.00
Target Compounds						
103) Benzaldehyde	4.282	105	401655	72.06	ppb	96
105) Atrazine	8.165	215	204382	50.23	ppb	84
106) 1,2,4,5-Tetrachloroben...	6.427	216	722413	48.14	ppb	99
108) Benzidine	9.952	184	1029836	60.07	ppb	99

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P1692\
Data File : 2p40360.D
Acq On : 5 Sep 2014 5:22 pm
Operator : harpreek
Sample : ic1692-50
Misc : op77543,e2p1692,1000,,,1,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 05 19:49:16 2014
Quant Method : C:\MSDCHEM\1\METHODS\M2P1691.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri Sep 05 19:43:14 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P1692\
 Data File : 2p40361.D
 Acq On : 5 Sep 2014 5:46 pm
 Operator : harpreek
 Sample : icc1692-25
 Misc : op77543,e2p1692,1000,,,1,1
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 05 19:49:53 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M2P1691.M
 Quant Title : Semi Volatile Extractables by GC/MS
 QLast Update : Fri Sep 05 19:43:14 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

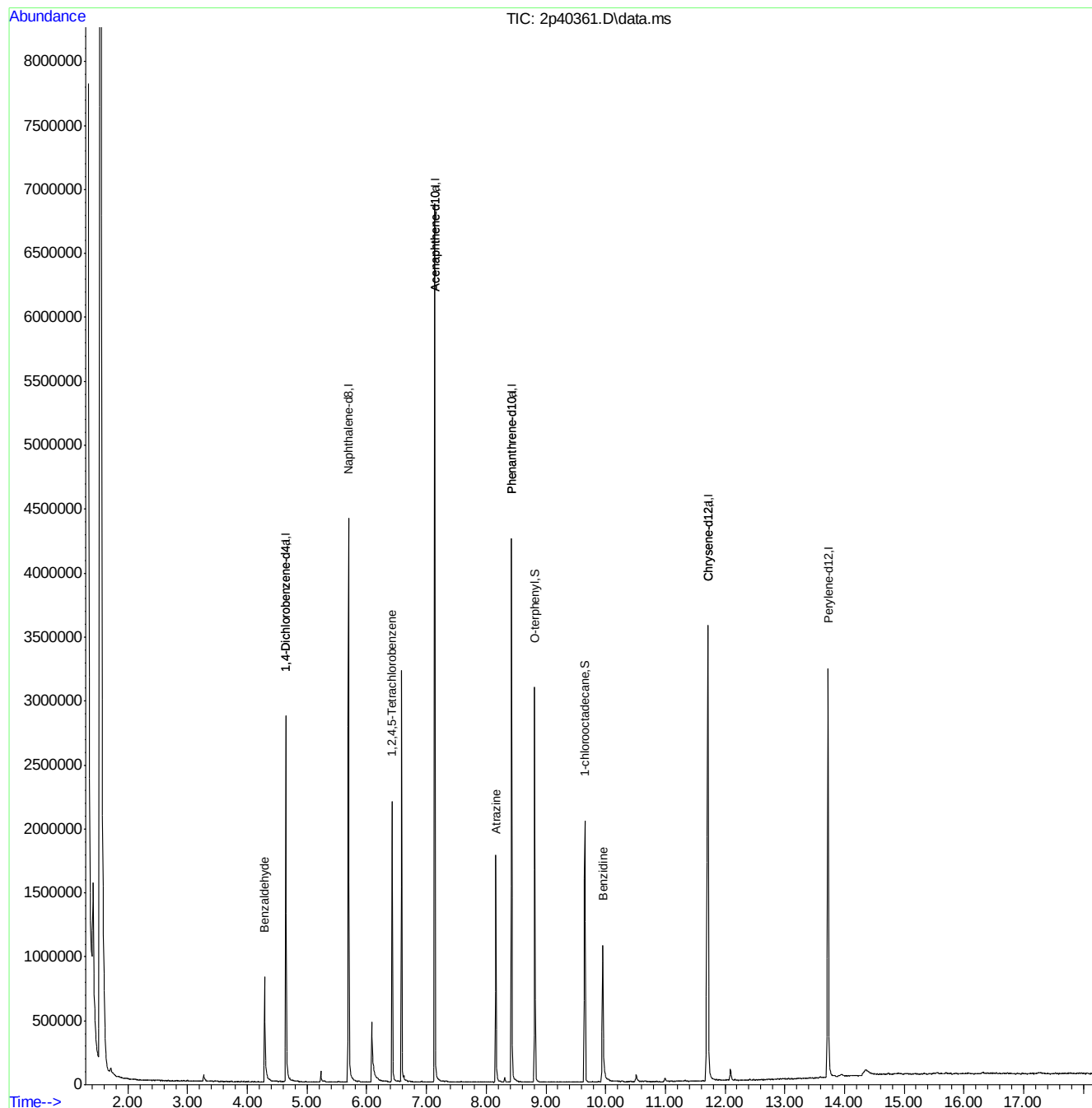
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.646	152	433222	40.00	ppb	0.00
24) Naphthalene-d8	5.694	136	1631534	40.00	ppb	0.00
47) Acenaphthene-d10	7.138	164	923585	40.00	ppb	0.00
69) Phenanthrene-d10	8.427	188	1527869	40.00	ppb	0.00
83) Chrysene-d12	11.717	240	1540575	40.00	ppb	0.00
92) Perylene-d12	13.728	264	1426715	40.00	ppb	0.00
102) 1,4-Dichlorobenzene-d4a	4.646	152	433222	40.00	ppb	0.00
104) Acenaphthene-d10a	7.138	164	923585	40.00	ppb	0.00
107) Chrysene-d12a	11.717	240	1540575	40.00	ppb	0.00
109) Phenanthrene-d10a	8.427	188	1527869	40.00	ppb	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	0.000	112	0	0.00	ppb	
Spiked Amount 50.000	Range 11 - 58		Recovery =	0.00%		
8) Phenol-d5	0.000	99	0d	0.00	ppb	
Spiked Amount 50.000	Range 10 - 59		Recovery =	0.00%		
25) Nitrobenzene-d5	0.000	82	0	0.00	ppb	
Spiked Amount 50.000	Range 19 - 61		Recovery =	0.00%		
51) 2-Fluorobiphenyl	0.000	172	0d	0.00	ppb	
Spiked Amount 50.000	Range 21 - 58		Recovery =	0.00%		
73) 2,4,6-Tribromophenol	0.000	330	0	0.00	ppb	
Spiked Amount 50.000	Range 12 - 68		Recovery =	0.00%		
85) Terphenyl-d14	0.000	244	0	0.00	ppb	
Spiked Amount 50.000	Range 16 - 65		Recovery =	0.00%		
110) 1-chlorooctadecane	9.652	57	303351	25.10	ppb	0.00
111) 0-terphenyl	8.812	230	540978	24.23	ppb	0.00
Target Compounds						
103) Benzaldehyde	4.287	105	220560	40.66	ppb	99
105) Atrazine	8.165	215	100159	24.75	ppb	92
106) 1,2,4,5-Tetrachloroben...	6.422	216	350136	23.46	ppb	97
108) Benzidine	9.952	184	580375	33.45	ppb	99

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P1692\
Data File : 2p40361.D
Acq On : 5 Sep 2014 5:46 pm
Operator : harpreek
Sample : icc1692-25
Misc : op77543,e2p1692,1000,,,1,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 05 19:49:53 2014
Quant Method : C:\MSDCHEM\1\METHODS\M2P1691.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri Sep 05 19:43:14 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P1692\
 Data File : 2p40362.D
 Acq On : 5 Sep 2014 6:09 pm
 Operator : harpreek
 Sample : ic1692-10
 Misc : op77543,e2p1692,1000,,,1,1
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 05 19:53:35 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M2P1691.M
 Quant Title : Semi Volatile Extractables by GC/MS
 QLast Update : Fri Sep 05 19:43:14 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

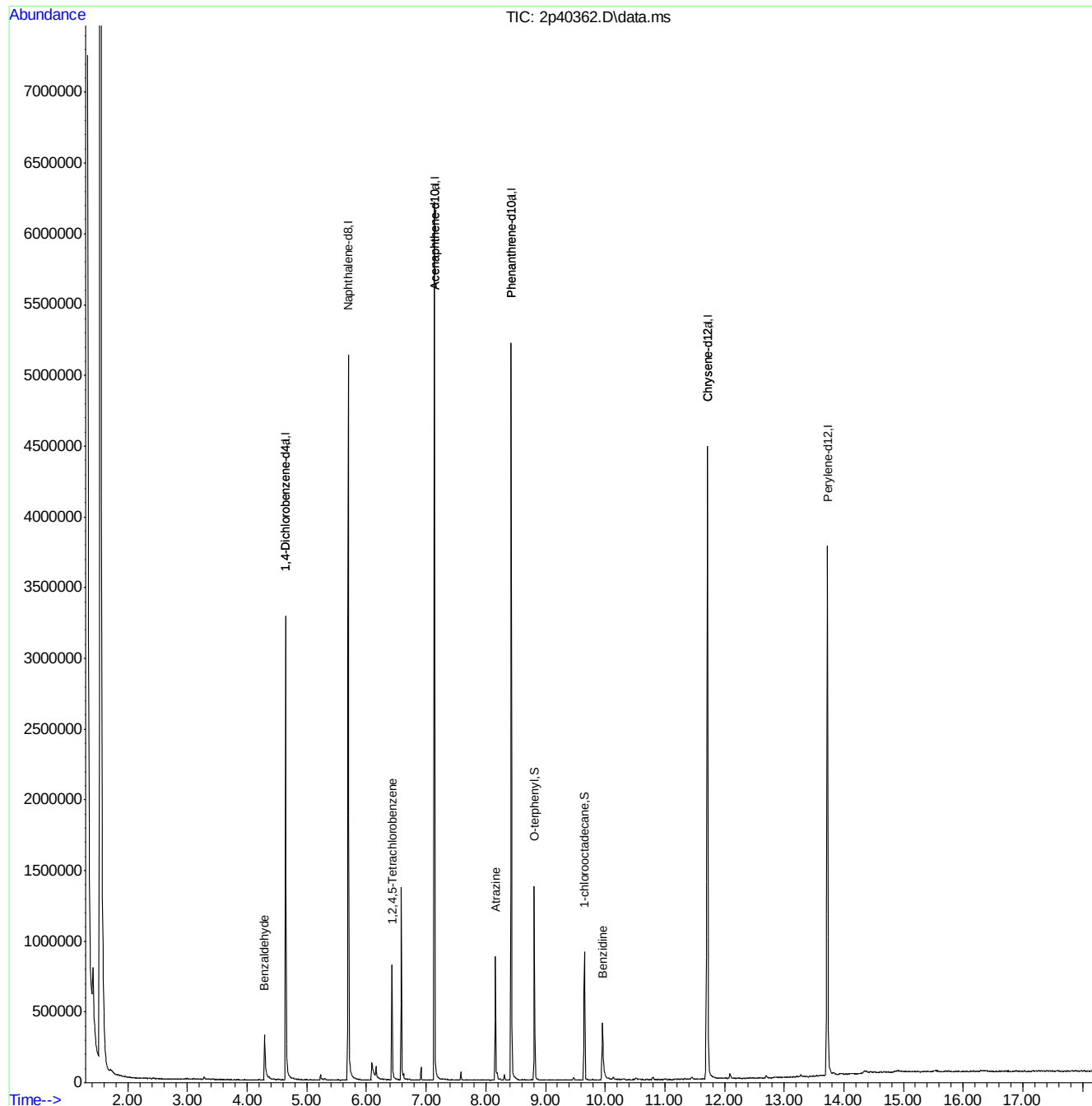
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.646	152	484278	40.00	ppb	0.00
24) Naphthalene-d8	5.694	136	1848699	40.00	ppb	0.00
47) Acenaphthene-d10	7.138	164	1043718	40.00	ppb	0.00
69) Phenanthrene-d10	8.427	188	1761789	40.00	ppb	0.00
83) Chrysene-d12	11.717	240	1807557	40.00	ppb	0.00
92) Perylene-d12	13.728	264	1670334	40.00	ppb	0.00
102) 1,4-Dichlorobenzene-d4a	4.646	152	484278	40.00	ppb	0.00
104) Acenaphthene-d10a	7.138	164	1043718	40.00	ppb	0.00
107) Chrysene-d12a	11.717	240	1807557	40.00	ppb	0.00
109) Phenanthrene-d10a	8.427	188	1761789	40.00	ppb	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	0.000	112	0	0.00	ppb	
Spiked Amount 50.000	Range 11 - 58		Recovery =	0.00%	#	
8) Phenol-d5	0.000	99	0d	0.00	ppb	
Spiked Amount 50.000	Range 10 - 59		Recovery =	0.00%	#	
25) Nitrobenzene-d5	0.000	82	0	0.00	ppb	
Spiked Amount 50.000	Range 19 - 61		Recovery =	0.00%	#	
51) 2-Fluorobiphenyl	0.000	172	0d	0.00	ppb	
Spiked Amount 50.000	Range 21 - 58		Recovery =	0.00%	#	
73) 2,4,6-Tribromophenol	0.000	330	0	0.00	ppb	
Spiked Amount 50.000	Range 12 - 68		Recovery =	0.00%	#	
85) Terphenyl-d14	0.000	244	0	0.00	ppb	
Spiked Amount 50.000	Range 16 - 65		Recovery =	0.00%	#	
110) 1-chlorooctadecane	9.652	57	134133	9.62	ppb	0.00
111) 0-terphenyl	8.812	230	233876	9.09	ppb	0.00
Target Compounds						
103) Benzaldehyde	4.287	105	100738	16.61	ppb	Qvalue 94
105) Atrazine	8.160	215	41831	9.15	ppb	# 66
106) 1,2,4,5-Tetrachloroben...	6.427	216	154529	9.16	ppb	98
108) Benzidine	9.952	184	263941	12.97	ppb	99

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P1692\
Data File : 2p40362.D
Acq On : 5 Sep 2014 6:09 pm
Operator : harpreek
Sample : ic1692-10
Misc : op77543,e2p1692,1000,,,1,1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 05 19:53:35 2014
Quant Method : C:\MSDCHEM\1\METHODS\M2P1691.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri Sep 05 19:43:14 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P1692\
 Data File : 2p40363.D
 Acq On : 5 Sep 2014 6:32 pm
 Operator : harpreek
 Sample : ic1692-5
 Misc : op77543,e2p1692,1000,,,1,1
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 05 19:54:15 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M2P1691.M
 Quant Title : Semi Volatile Extractables by GC/MS
 QLast Update : Fri Sep 05 19:43:14 2014
 Response via : Initial Calibration

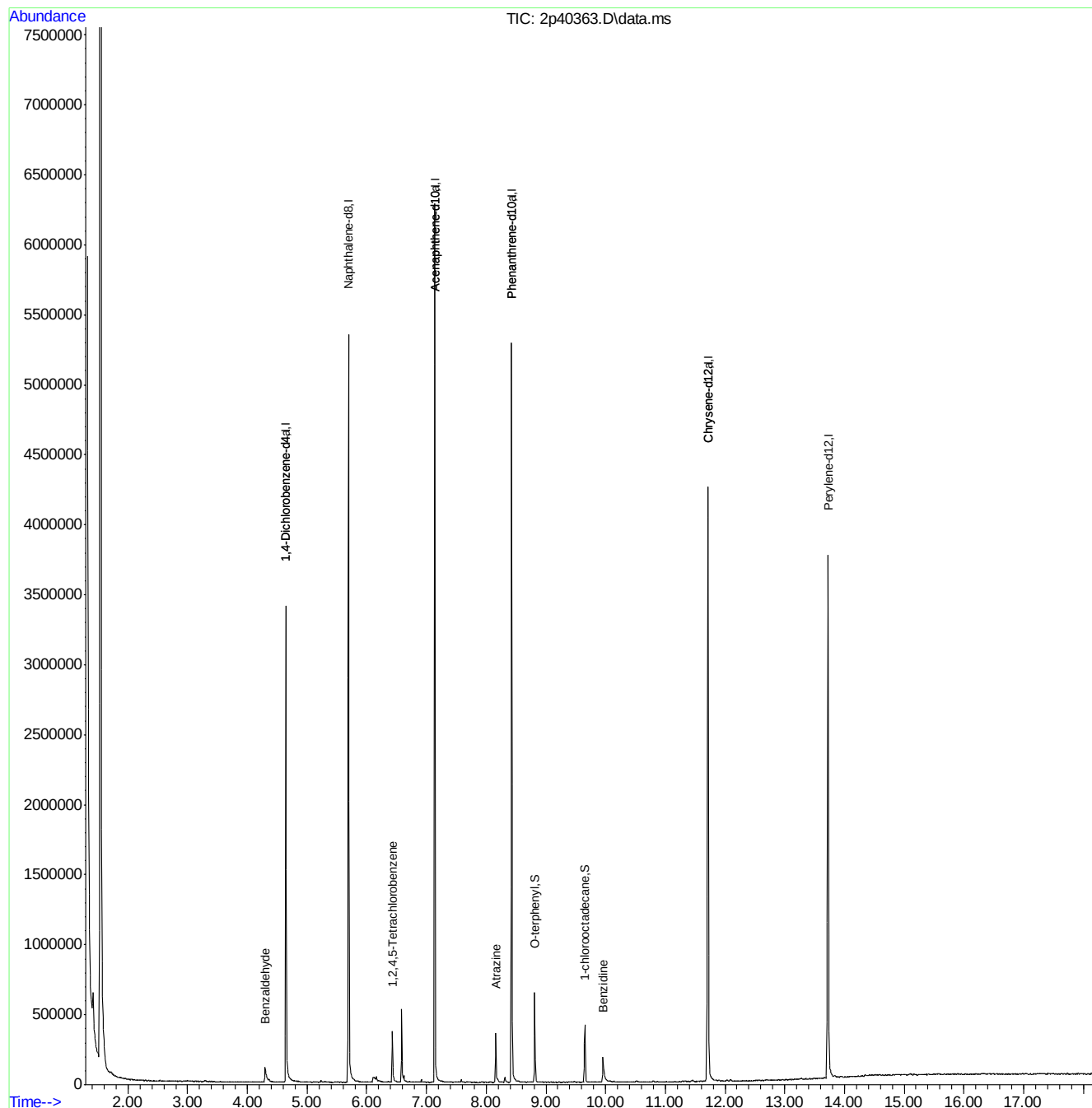
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.646	152	499803	40.00	ppb	0.00
24) Naphthalene-d8	5.694	136	1889877	40.00	ppb	0.00
47) Acenaphthene-d10	7.138	164	1056069	40.00	ppb	0.00
69) Phenanthrene-d10	8.427	188	1796488	40.00	ppb	0.00
83) Chrysene-d12	11.717	240	1817290	40.00	ppb	0.00
92) Perylene-d12	13.728	264	1667820	40.00	ppb	0.00
102) 1,4-Dichlorobenzene-d4a	4.646	152	499803	40.00	ppb	0.00
104) Acenaphthene-d10a	7.138	164	1056069	40.00	ppb	0.00
107) Chrysene-d12a	11.717	240	1817290	40.00	ppb	0.00
109) Phenanthrene-d10a	8.427	188	1796488	40.00	ppb	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	0.000	112	0	0.00	ppb	
Spiked Amount 50.000	Range 11 - 58		Recovery =	0.00%		
8) Phenol-d5	0.000	99	0d	0.00	ppb	
Spiked Amount 50.000	Range 10 - 59		Recovery =	0.00%		
25) Nitrobenzene-d5	0.000	82	0	0.00	ppb	
Spiked Amount 50.000	Range 19 - 61		Recovery =	0.00%		
51) 2-Fluorobiphenyl	0.000	172	0d	0.00	ppb	
Spiked Amount 50.000	Range 21 - 58		Recovery =	0.00%		
73) 2,4,6-Tribromophenol	0.000	330	0	0.00	ppb	
Spiked Amount 50.000	Range 12 - 68		Recovery =	0.00%		
85) Terphenyl-d14	0.000	244	0	0.00	ppb	
Spiked Amount 50.000	Range 16 - 65		Recovery =	0.00%		
110) 1-chlorooctadecane	9.652	57	61870	4.35	ppb	0.00
111) 0-terphenyl	8.812	230	107081	4.08	ppb	0.00
Target Compounds						
103) Benzaldehyde	4.293	105	44946	7.18	ppb	91
105) Atrazine	8.160	215	18669	4.03	ppb	# 69
106) 1,2,4,5-Tetrachloroben...	6.427	216	69959	4.10	ppb	95
108) Benzidine	9.957	184	123967	6.06	ppb	97

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P1692\
Data File : 2p40363.D
Acq On : 5 Sep 2014 6:32 pm
Operator : harpreek
Sample : ic1692-5
Misc : op77543,e2p1692,1000,,,1,1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 05 19:54:15 2014
Quant Method : C:\MSDCHEM\1\METHODS\M2P1691.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri Sep 05 19:43:14 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P1692\
 Data File : 2p40364.D
 Acq On : 5 Sep 2014 6:55 pm
 Operator : harpreek
 Sample : ic1692-2
 Misc : op77543,e2p1692,1000,,,1,1
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 05 19:54:57 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M2P1691.M
 Quant Title : Semi Volatile Extractables by GC/MS
 QLast Update : Fri Sep 05 19:43:14 2014
 Response via : Initial Calibration

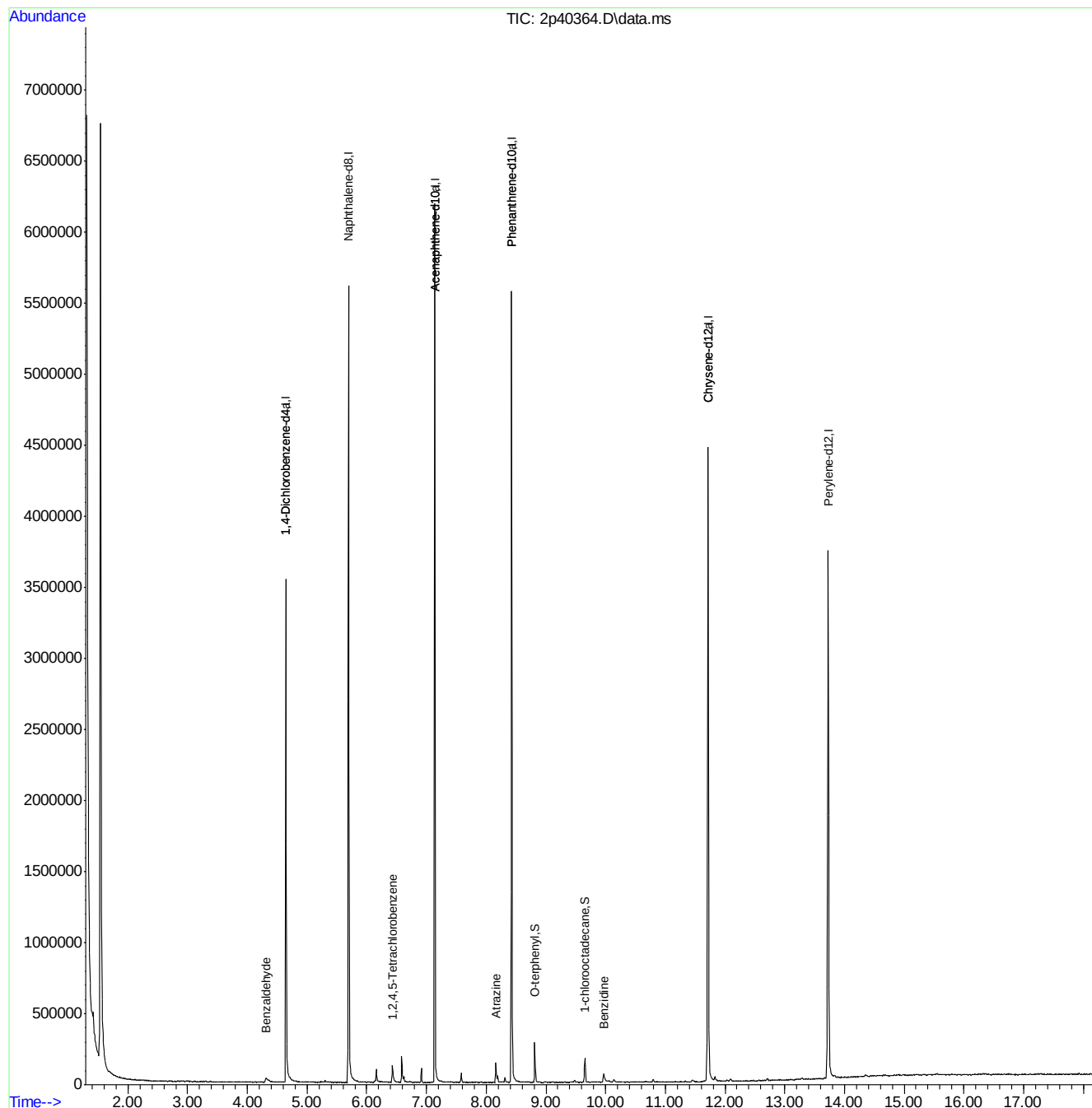
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.646	152	510214	40.00	ppb	0.00
24) Naphthalene-d8	5.694	136	1970686	40.00	ppb	0.00
47) Acenaphthene-d10	7.138	164	1095112	40.00	ppb	0.00
69) Phenanthrene-d10	8.427	188	1838499	40.00	ppb	0.00
83) Chrysene-d12	11.717	240	1851362	40.00	ppb	0.00
92) Perylene-d12	13.728	264	1699008	40.00	ppb	0.00
102) 1,4-Dichlorobenzene-d4a	4.646	152	510214	40.00	ppb	0.00
104) Acenaphthene-d10a	7.138	164	1095112	40.00	ppb	0.00
107) Chrysene-d12a	11.717	240	1851362	40.00	ppb	0.00
109) Phenanthrene-d10a	8.427	188	1838499	40.00	ppb	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	0.000	112	0	0.00	ppb	
Spiked Amount 50.000	Range 11 - 58		Recovery =	0.00%	#	
8) Phenol-d5	0.000	99	0d	0.00	ppb	
Spiked Amount 50.000	Range 10 - 59		Recovery =	0.00%	#	
25) Nitrobenzene-d5	0.000	82	0	0.00	ppb	
Spiked Amount 50.000	Range 19 - 61		Recovery =	0.00%	#	
51) 2-Fluorobiphenyl	0.000	172	0d	0.00	ppb	
Spiked Amount 50.000	Range 21 - 58		Recovery =	0.00%	#	
73) 2,4,6-Tribromophenol	0.000	330	0	0.00	ppb	
Spiked Amount 50.000	Range 12 - 68		Recovery =	0.00%	#	
85) Terphenyl-d14	0.000	244	0	0.00	ppb	
Spiked Amount 50.000	Range 16 - 65		Recovery =	0.00%	#	
110) 1-chlorooctadecane	9.652	57	27245	1.87	ppb	0.00
111) 0-terphenyl	8.812	230	46851	1.74	ppb	0.00
Target Compounds						
103) Benzaldehyde	4.314	105	18870	2.95	ppb	83
105) Atrazine	8.160	215	9051	1.89	ppb	# 73
106) 1,2,4,5-Tetrachloroben...	6.427	216	33703	1.90	ppb	97
108) Benzidine	9.968	184	48640	2.33	ppb	98

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P1692\
Data File : 2p40364.D
Acq On : 5 Sep 2014 6:55 pm
Operator : harpreek
Sample : ic1692-2
Misc : op77543,e2p1692,1000,,,1,1
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 05 19:54:57 2014
Quant Method : C:\MSDCHEM\1\METHODS\M2P1691.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri Sep 05 19:43:14 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P1692\
 Data File : 2p40365.D
 Acq On : 5 Sep 2014 7:18 pm
 Operator : harpreek
 Sample : ic1692-1
 Misc : op77543,e2p1692,1000,,,1,1
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 05 19:55:28 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M2P1691.M
 Quant Title : Semi Volatile Extractables by GC/MS
 QLast Update : Fri Sep 05 19:43:14 2014
 Response via : Initial Calibration

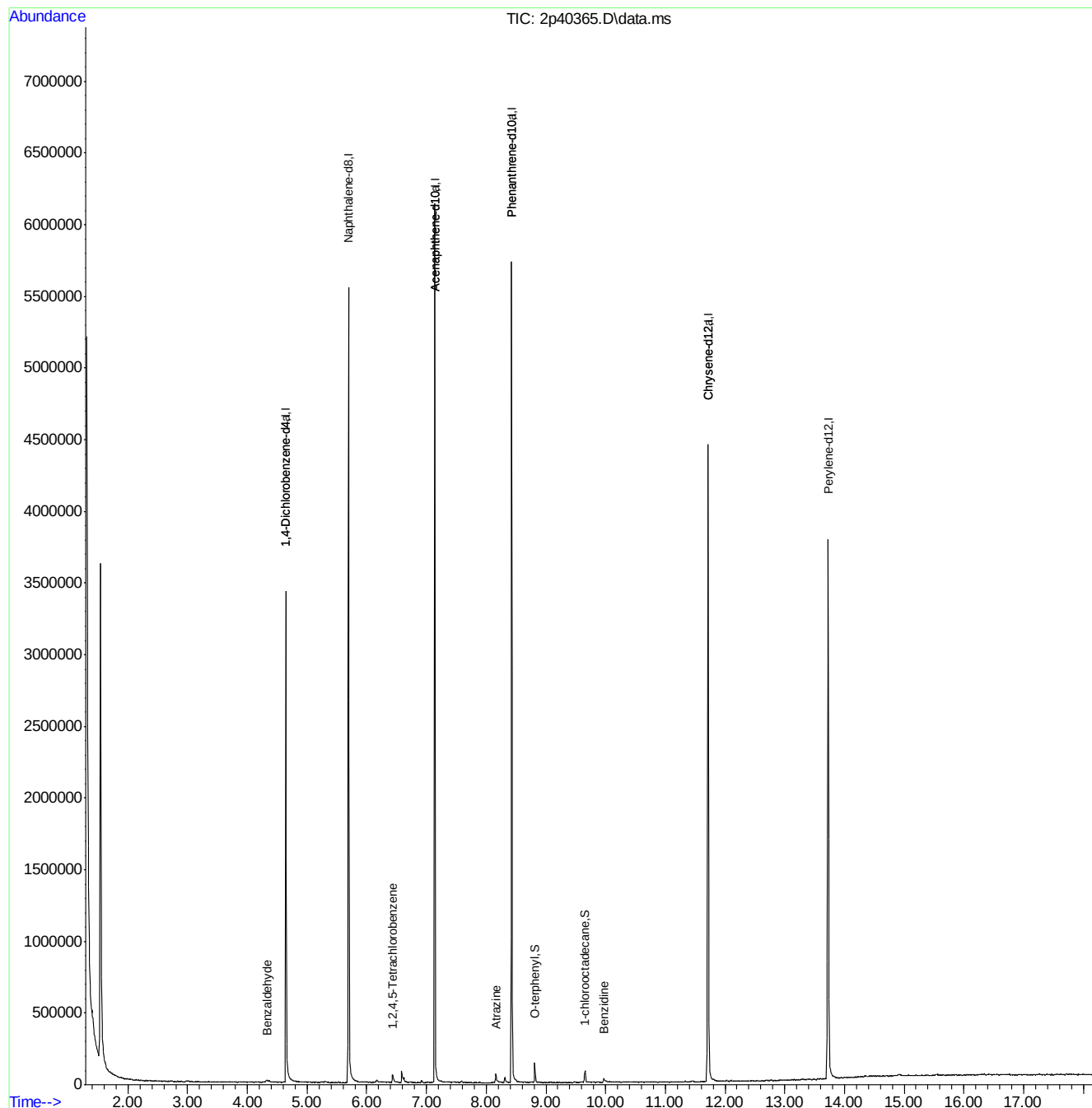
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.646	152	504371	40.00	ppb	0.00
24) Naphthalene-d8	5.694	136	1964130	40.00	ppb	0.00
47) Acenaphthene-d10	7.138	164	1079475	40.00	ppb	0.00
69) Phenanthrene-d10	8.427	188	1849865	40.00	ppb	0.00
83) Chrysene-d12	11.717	240	1854907	40.00	ppb	0.00
92) Perylene-d12	13.728	264	1717636	40.00	ppb	0.00
102) 1,4-Dichlorobenzene-d4a	4.646	152	504371	40.00	ppb	0.00
104) Acenaphthene-d10a	7.138	164	1079475	40.00	ppb	0.00
107) Chrysene-d12a	11.717	240	1854907	40.00	ppb	0.00
109) Phenanthrene-d10a	8.427	188	1849865	40.00	ppb	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	0.000	112	0	0.00	ppb	
Spiked Amount	50.000	Range	11 - 58	Recovery	=	0.00%#
8) Phenol-d5	0.000	99	0	0.00	ppb	
Spiked Amount	50.000	Range	10 - 59	Recovery	=	0.00%#
25) Nitrobenzene-d5	0.000	82	0	0.00	ppb	
Spiked Amount	50.000	Range	19 - 61	Recovery	=	0.00%#
51) 2-Fluorobiphenyl	0.000	172	0	0.00	ppb	
Spiked Amount	50.000	Range	21 - 58	Recovery	=	0.00%#
73) 2,4,6-Tribromophenol	0.000	330	0	0.00	ppb	
Spiked Amount	50.000	Range	12 - 68	Recovery	=	0.00%#
85) Terphenyl-d14	0.000	244	0	0.00	ppb	
Spiked Amount	50.000	Range	16 - 65	Recovery	=	0.00%#
110) 1-chlorooctadecane	9.652	57	14605	1.00	ppb	0.00
111) 0-terphenyl	8.818	230	27355	1.01	ppb	0.00
Target Compounds						
103) Benzaldehyde	4.325	105	9399	1.49	ppb	# 75
105) Atrazine	8.165	215	3836	0.81	ppb	# 74
106) 1,2,4,5-Tetrachloroben...	6.432	216	18129	1.04	ppb	96
108) Benzidine	9.973	184	25900	1.24	ppb	96

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P1692\
Data File : 2p40365.D
Acq On : 5 Sep 2014 7:18 pm
Operator : harpreek
Sample : ic1692-1
Misc : op77543,e2p1692,1000,,,1,1
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 05 19:55:28 2014
Quant Method : C:\MSDCHEM\1\METHODS\M2P1691.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri Sep 05 19:43:14 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P1692\
 Data File : 2p40366.D
 Acq On : 5 Sep 2014 7:41 pm
 Operator : harpreek
 Sample : icv1691-50
 Misc : op77543,e2p1692,1000,,,1,1
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 05 20:08:13 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M2P1691.M
 Quant Title : Semi Volatile Extractables by GC/MS
 QLast Update : Fri Sep 05 20:04:39 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.646	152	531806	40.00	ppb	0.00
24) Naphthalene-d8	5.694	136	1859613	40.00	ppb	0.00
47) Acenaphthene-d10	7.138	164	1064572	40.00	ppb	0.00
69) Phenanthrene-d10	8.427	188	1750949	40.00	ppb	0.00
83) Chrysene-d12	11.717	240	1746705	40.00	ppb	0.00
92) Perylene-d12	13.728	264	1562823	40.00	ppb	0.00
102) 1,4-Dichlorobenzene-d4a	4.646	152	531806	40.00	ppb	0.00
104) Acenaphthene-d10a	7.138	164	1064572	40.00	ppb	0.00
107) Chrysene-d12a	11.717	240	1746705	40.00	ppb	0.00
109) Phenanthrene-d10a	8.427	188	1750949	40.00	ppb	0.00

System Monitoring Compounds

5) 2-Fluorophenol	0.000	112	0	0.00	ppb	
Spiked Amount	50.000	Range	11 - 58	Recovery	=	0.00%#
8) Phenol-d5	0.000	99	0d	0.00	ppb	
Spiked Amount	50.000	Range	10 - 59	Recovery	=	0.00%#
25) Nitrobenzene-d5	0.000	82	0d	0.00	ppb	
Spiked Amount	50.000	Range	19 - 61	Recovery	=	0.00%#
51) 2-Fluorobiphenyl	0.000	172	0d	0.00	ppb	
Spiked Amount	50.000	Range	21 - 58	Recovery	=	0.00%#
73) 2,4,6-Tribromophenol	0.000	330	0	0.00	ppb	
Spiked Amount	50.000	Range	12 - 68	Recovery	=	0.00%#
85) Terphenyl-d14	0.000	244	0	0.00	ppb	
Spiked Amount	50.000	Range	16 - 65	Recovery	=	0.00%#
110) 1-chlorooctadecane	0.000	57	0	0.00	ppb	
111) 0-terphenyl	0.000	230	0	0.00	ppb	

Target Compounds

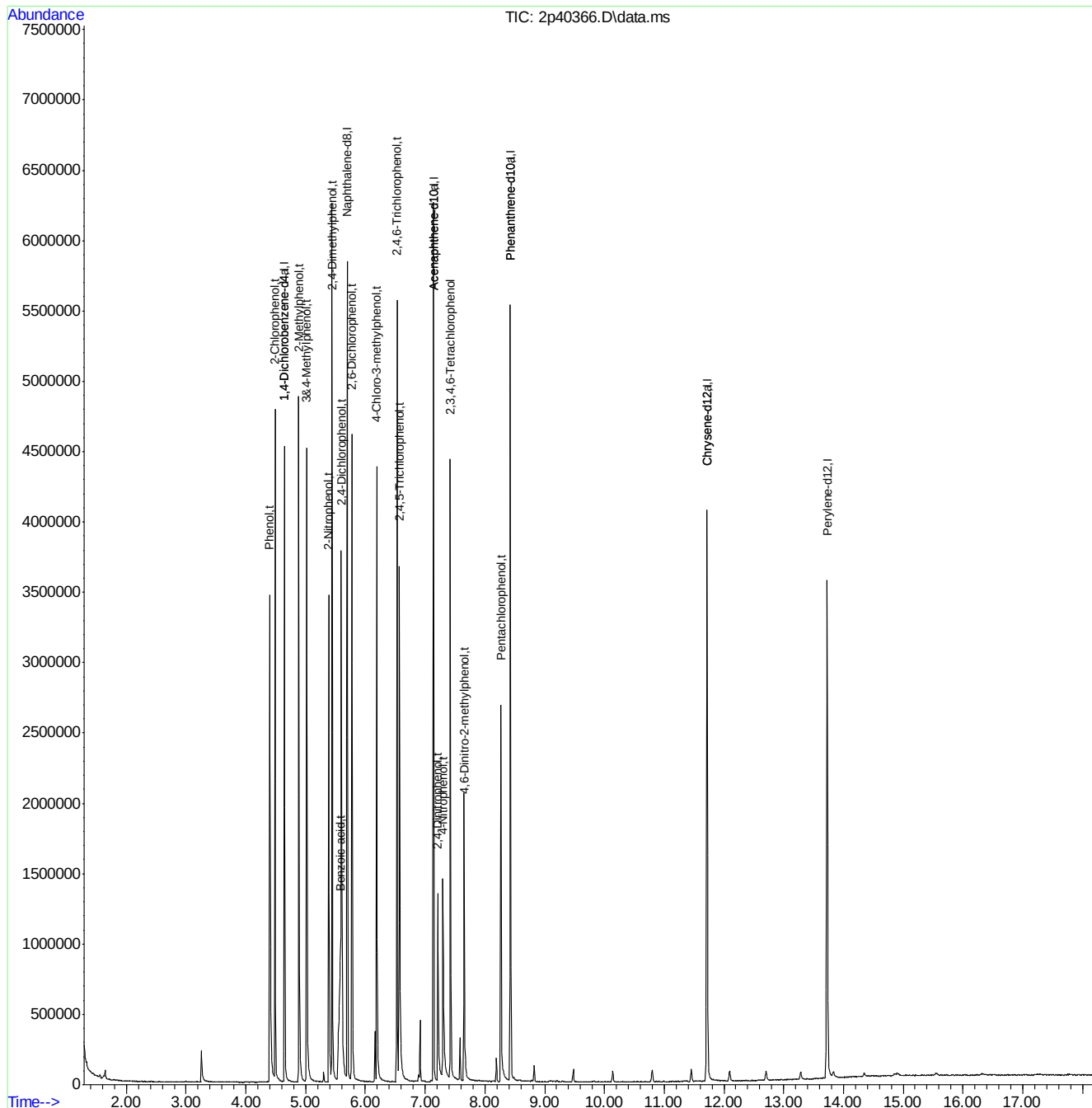
						Qvalue
9) Phenol	4.400	94	1004249	49.09	ppb	97
12) 2-Chlorophenol	4.485	128	995551	53.89	ppb	97
19) 2-Methylphenol	4.886	108	764336	54.88	ppb	99
21) 3&4-Methylphenol	5.015	108	791793	53.98	ppb	97
29) 2-Nitrophenol	5.389	139	521773	54.21	ppb	83
30) 2,4-Dimethylphenol	5.443	107	853321	57.35	ppb	95
31) Benzoic acid	5.587	105	574553	58.88	ppb	99
33) 2,4-Dichlorophenol	5.598	162	752999	52.75	ppb	98
34) 2,6-Dichlorophenol	5.774	162	760857	53.44	ppb	96
43) 4-Chloro-3-methylphenol	6.186	107	710503	53.53	ppb	94
49) 2,4,6-Trichlorophenol	6.528	196	541090	53.93	ppb	100
50) 2,4,5-Trichlorophenol	6.566	196	565876	52.70	ppb	97
60) 2,4-Dinitrophenol	7.213	184	203436	42.89	ppb	92
61) 4-Nitrophenol	7.299	109	232312	56.97	ppb #	1
64) 2,3,4,6-Tetrachlorophenol	7.422	232	442703	50.36	ppb	93
70) 4,6-Dinitro-2-methylph...	7.657	198	291321	50.54	ppb	91
76) Pentachlorophenol	8.267	266	304102	51.78	ppb	99

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P1692\
Data File : 2p40366.D
Acq On : 5 Sep 2014 7:41 pm
Operator : harpreek
Sample : icv1691-50
Misc : op77543,e2p1692,1000,,,1,1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 05 20:08:13 2014
Quant Method : C:\MSDCHEM\1\METHODS\M2P1691.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri Sep 05 20:04:39 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P1692\
 Data File : 2p40367a.D
 Acq On : 5 Sep 2014 8:05 pm
 Operator : harpreek
 Sample : icv1692-50
 Misc : op77543,e2p1692,1000,,,1,1
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Sep 05 20:32:24 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M2P1691.M
 Quant Title : Semi Volatile Extractables by GC/MS
 QLast Update : Fri Sep 05 20:04:39 2014
 Response via : Initial Calibration

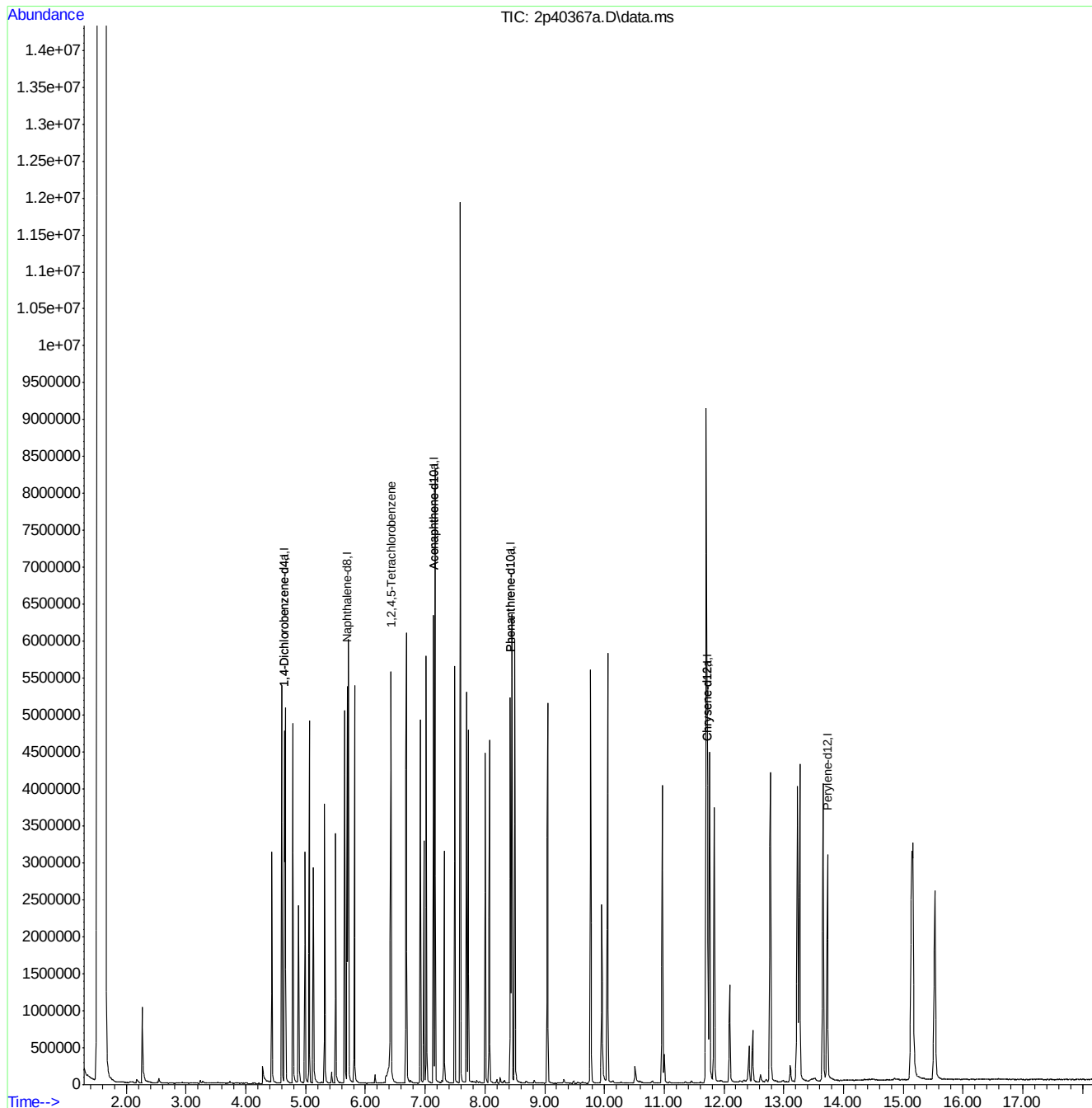
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.646	152	532525	40.00	ppb	0.00
24) Naphthalene-d8	5.694	136	1879578	40.00	ppb	0.00
47) Acenaphthene-d10	7.138	164	1022296	40.00	ppb	0.00
69) Phenanthrene-d10	8.427	188	1676016	40.00	ppb	0.00
83) Chrysene-d12	11.727	240	1547249	40.00	ppb	0.01
92) Perylene-d12	13.733	264	1308006	40.00	ppb	0.00
102) 1,4-Dichlorobenzene-d4a	4.646	152	532525	40.00	ppb	0.00
104) Acenaphthene-d10a	7.138	164	1022296	40.00	ppb	0.00
107) Chrysene-d12a	11.727	240	1547249	40.00	ppb	0.01
109) Phenanthrene-d10a	8.427	188	1676016	40.00	ppb	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	0.000	112	0	0.00	ppb	
Spiked Amount 50.000	Range 11 - 58		Recovery =	0.00%	#	
8) Phenol-d5	0.000	99	0d	0.00	ppb	
Spiked Amount 50.000	Range 10 - 59		Recovery =	0.00%	#	
25) Nitrobenzene-d5	0.000	82	0d	0.00	ppb	
Spiked Amount 50.000	Range 19 - 61		Recovery =	0.00%	#	
51) 2-Fluorobiphenyl	0.000	172	0	0.00	ppb	
Spiked Amount 50.000	Range 21 - 58		Recovery =	0.00%	#	
73) 2,4,6-Tribromophenol	0.000	330	0	0.00	ppb	
Spiked Amount 50.000	Range 12 - 68		Recovery =	0.00%	#	
85) Terphenyl-d14	0.000	244	0	0.00	ppb	
Spiked Amount 50.000	Range 16 - 65		Recovery =	0.00%	#	
110) 1-chlorooctadecane	0.000	57	0d	0.00	ppb	
111) 0-terphenyl	0.000	230	0	0.00	ppb	
Target Compounds						
106) 1,2,4,5-Tetrachloroben...	6.427	216	794591	50.50	ppb	Qvalue 99

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P1692\
Data File : 2p40367a.D
Acq On : 5 Sep 2014 8:05 pm
Operator : harpreek
Sample : icv1692-50
Misc : op77543,e2p1692,1000,,,1,1
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Sep 05 20:32:24 2014
Quant Method : C:\MSDCHEM\1\METHODS\M2P1691.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri Sep 05 20:04:39 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P1692\
 Data File : 2p40367.D
 Acq On : 5 Sep 2014 8:05 pm
 Operator : harpreek
 Sample : icv1691-50
 Misc : op77543,e2p1692,1000,,,1,1
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Sep 05 20:31:40 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M2P1691.M
 Quant Title : Semi Volatile Extractables by GC/MS
 QLast Update : Fri Sep 05 20:04:39 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.646	152	532525	40.00	ppb	0.00
24) Naphthalene-d8	5.694	136	1879578	40.00	ppb	0.00
47) Acenaphthene-d10	7.138	164	1022296	40.00	ppb	0.00
69) Phenanthrene-d10	8.427	188	1676016	40.00	ppb	0.00
83) Chrysene-d12	11.727	240	1547249	40.00	ppb	0.01
92) Perylene-d12	13.733	264	1308006	40.00	ppb	0.00
102) 1,4-Dichlorobenzene-d4a	4.646	152	532525	40.00	ppb	0.00
104) Acenaphthene-d10a	7.138	164	1022296	40.00	ppb	0.00
107) Chrysene-d12a	11.727	240	1547249	40.00	ppb	0.01
109) Phenanthrene-d10a	8.427	188	1676016	40.00	ppb	0.00

System Monitoring Compounds

5) 2-Fluorophenol	0.000	112	0	0.00	ppb	
Spiked Amount	50.000	Range	11 - 58	Recovery	=	0.00%#
8) Phenol-d5	0.000	99	0d	0.00	ppb	
Spiked Amount	50.000	Range	10 - 59	Recovery	=	0.00%#
25) Nitrobenzene-d5	0.000	82	0d	0.00	ppb	
Spiked Amount	50.000	Range	19 - 61	Recovery	=	0.00%#
51) 2-Fluorobiphenyl	0.000	172	0	0.00	ppb	
Spiked Amount	50.000	Range	21 - 58	Recovery	=	0.00%#
73) 2,4,6-Tribromophenol	0.000	330	0	0.00	ppb	
Spiked Amount	50.000	Range	12 - 68	Recovery	=	0.00%#
85) Terphenyl-d14	0.000	244	0	0.00	ppb	
Spiked Amount	50.000	Range	16 - 65	Recovery	=	0.00%#
110) 1-chlorooctadecane	0.000	57	0d	0.00	ppb	
111) 0-terphenyl	0.000	230	0	0.00	ppb	

Target Compounds

Compound	R.T.	QIon	Response	Conc	Units	Qvalue
4) N-Nitrosodimethylamine	2.266	74	350074	44.65	ppb	95
11) bis(2-Chloroethyl)ether	4.432	93	688011	51.69	ppb	99
14) 1,3-Dichlorobenzene	4.598	146	1003205	47.91	ppb	99
15) 1,4-Dichlorobenzene	4.662	146	984284	46.05	ppb	98
17) 1,2-Dichlorobenzene	4.785	146	917870	46.52	ppb	99
20) 2,2'-oxybis(1-Chloropr...	4.881	121	211693	46.29	ppb	92
22) n-Nitroso-di-n-propyla...	4.988	70	456814	46.93	ppb	99
23) Hexachloroethane	5.058	201	371898	46.61	ppb	93
26) Nitrobenzene	5.127	77	682806	45.23	ppb	99
28) Isophorone	5.320	82	1138856	45.80	ppb	99
32) bis(2-Chloroethoxy)met...	5.502	93	778291	50.81	ppb	99
36) 1,2,4-Trichlorobenzene	5.651	180	790241	47.44	ppb	98
38) Naphthalene	5.715	128	2181456	43.91	ppb	98
42) Hexachlorobutadiene	5.817	225	442491	47.32	ppb	99
48) Hexachlorocyclopentadiene	6.416	237	234911	41.16	ppb	97
52) 2-Chloronaphthalene	6.684	162	1472560	49.73	ppb	94
55) Dimethylphthalate	6.919	163	1594112	48.92	ppb	98
56) Acenaphthylene	7.021	152	1839227	35.96	ppb	99
57) 2,6-Dinitrotoluene	6.978	165	348654	44.88	ppb	96
59) Acenaphthene	7.165	153	1489858	45.10	ppb	98
63) 2,4-Dinitrotoluene	7.315	165	445215	43.42	ppb	94

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P1692\
 Data File : 2p40367.D
 Acq On : 5 Sep 2014 8:05 pm
 Operator : harpreek
 Sample : icv1691-50
 Misc : op77543,e2p1692,1000,,,1,1
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Sep 05 20:31:40 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M2P1691.M
 Quant Title : Semi Volatile Extractables by GC/MS
 QLast Update : Fri Sep 05 20:04:39 2014
 Response via : Initial Calibration

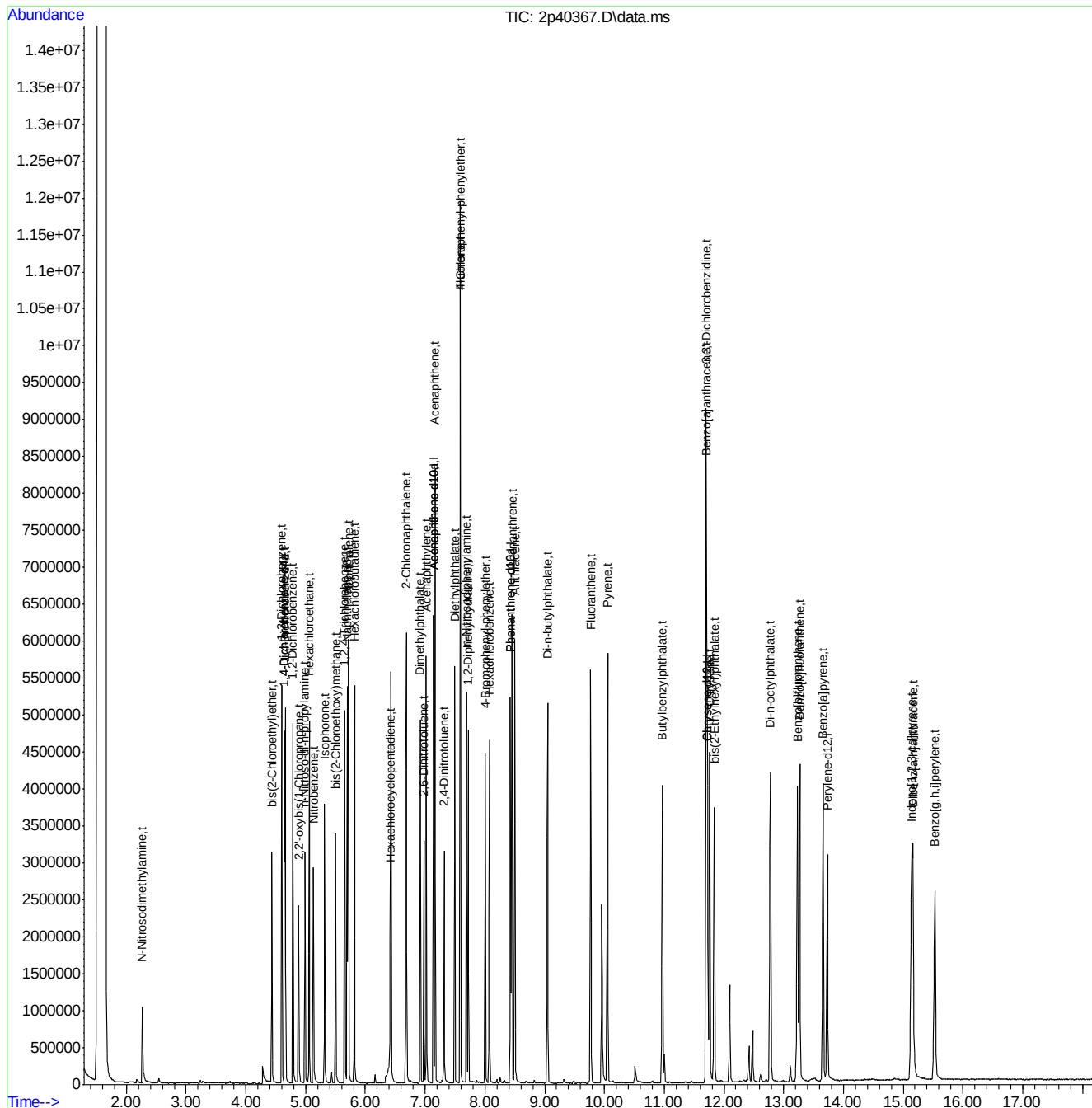
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
65) Diethylphthalate	7.497	149	1544336	47.69	ppb	99
66) Fluorene	7.587	166	1568910	44.50	ppb	98
67) 4-Chlorophenyl-phenyle...	7.587	204	779416	49.91	ppb	98
71) n-Nitrosodiphenylamine	7.689	169	1025545	46.09	ppb	99
72) 1,2-Diphenylhydrazine	7.721	77	1285718	48.93	ppb	97
74) 4-Bromophenyl-phenylether	8.005	248	448762	49.19	ppb	97
75) Hexachlorobenzene	8.074	284	514184	46.66	ppb	99
77) Phenanthrene	8.454	178	2201807	43.93	ppb	99
78) Anthracene	8.502	178	2154147	42.70	ppb	100
80) Di-n-butylphthalate	9.048	149	2652321	49.17	ppb	100
81) Fluoranthene	9.775	202	2562068	44.17	ppb	99
84) Pyrene	10.053	202	2522136	45.74	ppb	99
86) Butylbenzylphthalate	10.968	149	1160651	51.53	ppb	99
88) Benzo[a]anthracene	11.711	228	2217405	45.05	ppb	100
89) 3,3'-Dichlorobenzidine	11.706	252	1256255	72.62	ppb	100
90) Chrysene	11.765	228	1960550	46.20	ppb	99
91) bis(2-Ethylhexyl)phtha...	11.840	149	1487519	50.99	ppb	99
93) Di-n-octylphthalate	12.776	149	2732482	54.52	ppb	99
94) Benzo[b]fluoranthene	13.230	252	2054301m	45.75	ppb	
95) Benzo[k]fluoranthene	13.268	252	2016920	49.29	ppb	100
96) Benzo[a]pyrene	13.658	252	1907016	49.21	ppb	99
97) Indeno[1,2,3-cd]pyrene	15.140	276	2233998	49.69	ppb	96
99) Dibenz[a,h]anthracene	15.166	278	1786399	50.10	ppb	99
101) Benzo[g,h,i]perylene	15.530	276	1799503	50.96	ppb	99

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P1692\
Data File : 2p40367.D
Acq On : 5 Sep 2014 8:05 pm
Operator : harpreek
Sample : icv1691-50
Misc : op77543,e2p1692,1000,,,1,1
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Sep 05 20:31:40 2014
Quant Method : C:\MSDCHEM\1\METHODS\M2P1691.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri Sep 05 20:04:39 2014
Response via : Initial Calibration



Manual Integration Approval Summary

Sample Number:

E2P1692-ICV1691

Method:

SW846 8270D

Lab FileID:

2P40367.D

Analyst approved:

09/05/14 20:41 Andrew Lee Smith

Injection Time:

09/05/14 20:05

Supervisor approved:

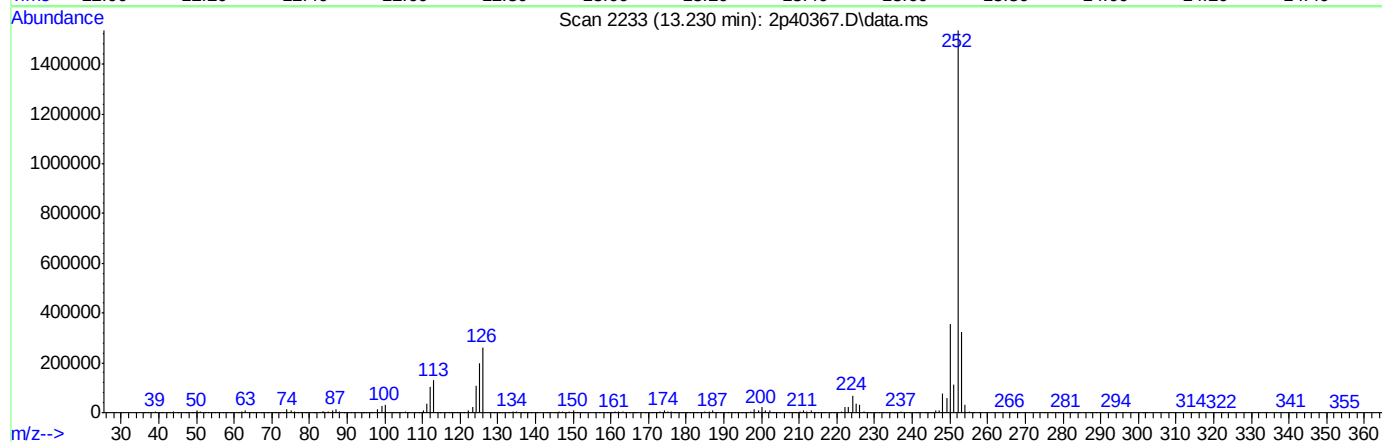
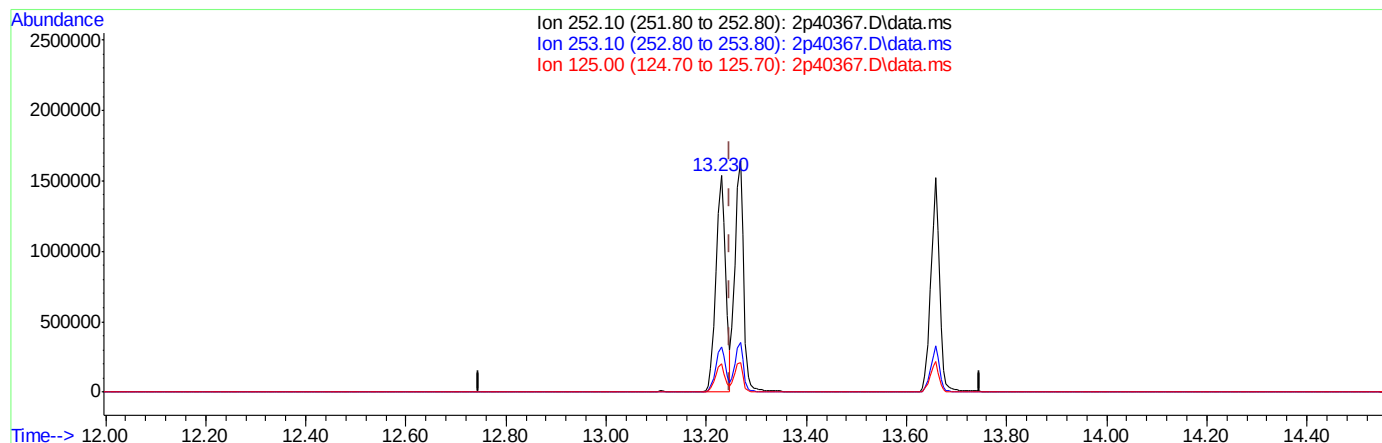
09/08/14 09:30 Nina Pandya

Parameter	CAS	Sig#	R.T. (min.)	Reason
Benzo(b)fluoranthene	205-99-2		13.23	Overlapping peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2P1692\
Data File : 2p40367.D
Acq On : 5 Sep 2014 8:05 pm
Operator : harpreek
Sample : icv1691-50
Misc : op77543,e2p1692,1000,,,1,1
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Sep 05 20:22:28 2014
Quant Method : C:\MSDCHEM\1\METHODS\M2P1691.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri Sep 05 20:04:39 2014
Response via : Initial Calibration



TIC: 2p40367.D\data.ms

(94) Benzo[b]fluoranthene (t)

13.230min (-0.016) 45.75ppb m

response 2054301

Ion	Exp%	Act%
252.10	100	100
253.10	21.90	21.05
125.00	13.80	13.05
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P1692\
 Data File : 2p40368.D
 Acq On : 5 Sep 2014 8:28 pm
 Operator : harpreek
 Sample : icv1691-50
 Misc : op77543,e2p1692,1000,,,1,1
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Sep 05 21:14:49 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M2P1691.M
 Quant Title : Semi Volatile Extractables by GC/MS
 QLast Update : Fri Sep 05 20:04:39 2014
 Response via : Initial Calibration

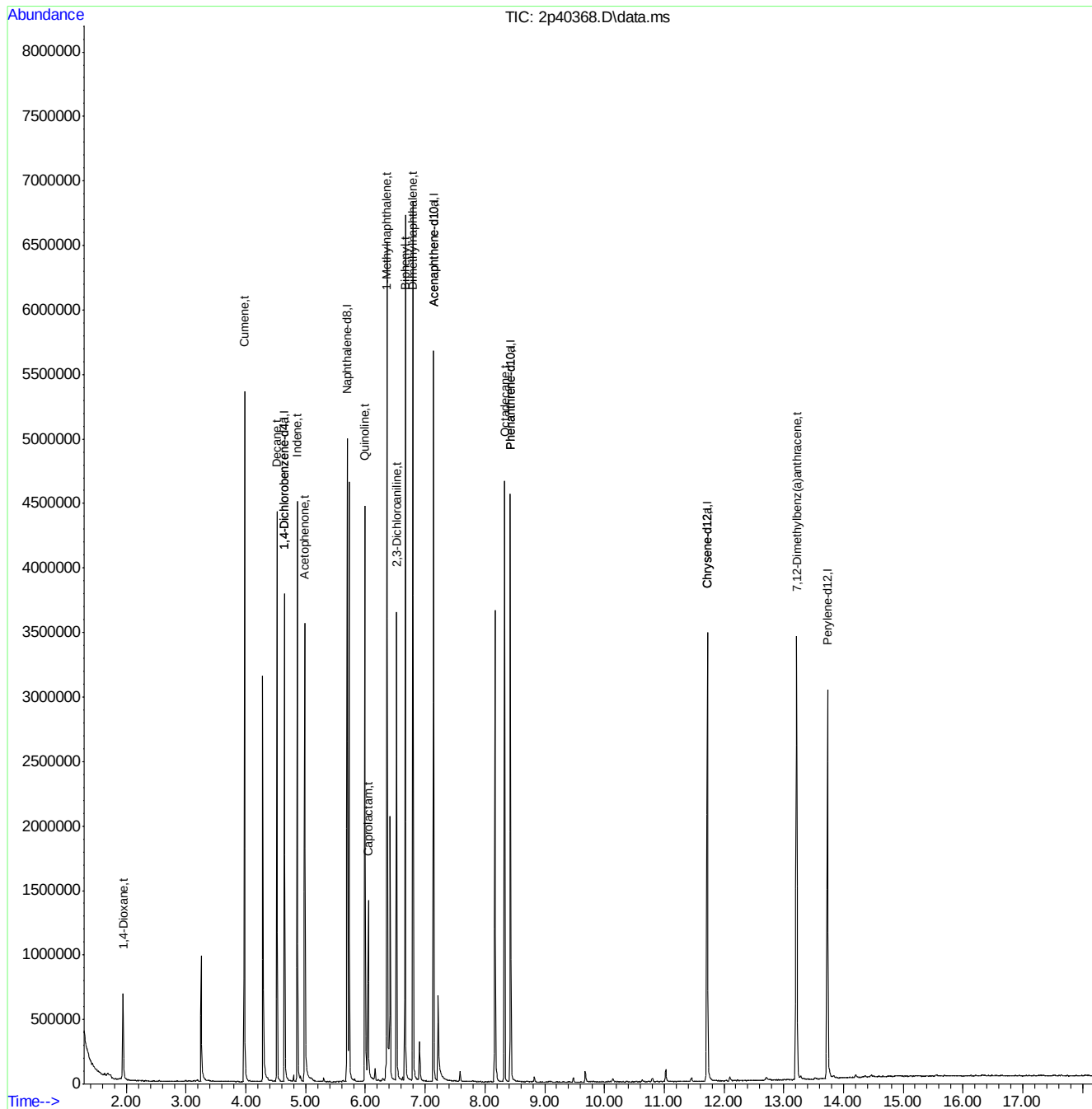
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.646	152	449406	40.00	ppb	0.00
24) Naphthalene-d8	5.694	136	1664968	40.00	ppb	0.00
47) Acenaphthene-d10	7.138	164	906121	40.00	ppb	0.00
69) Phenanthrene-d10	8.427	188	1480879	40.00	ppb	0.00
83) Chrysene-d12	11.722	240	1501409	40.00	ppb	0.00
92) Perylene-d12	13.733	264	1321256	40.00	ppb	0.00
102) 1,4-Dichlorobenzene-d4a	4.646	152	449406	40.00	ppb	0.00
104) Acenaphthene-d10a	7.138	164	906121	40.00	ppb	0.00
107) Chrysene-d12a	11.722	240	1501409	40.00	ppb	0.00
109) Phenanthrene-d10a	8.427	188	1480879	40.00	ppb	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	0.000	112	0	0.00	ppb	
Spiked Amount 50.000	Range 11 - 58		Recovery =	0.00%		
8) Phenol-d5	0.000	99	0d	0.00	ppb	
Spiked Amount 50.000	Range 10 - 59		Recovery =	0.00%		
25) Nitrobenzene-d5	0.000	82	0	0.00	ppb	
Spiked Amount 50.000	Range 19 - 61		Recovery =	0.00%		
51) 2-Fluorobiphenyl	0.000	172	0d	0.00	ppb	
Spiked Amount 50.000	Range 21 - 58		Recovery =	0.00%		
73) 2,4,6-Tribromophenol	0.000	330	0	0.00	ppb	
Spiked Amount 50.000	Range 12 - 68		Recovery =	0.00%		
85) Terphenyl-d14	0.000	244	0	0.00	ppb	
Spiked Amount 50.000	Range 16 - 65		Recovery =	0.00%		
110) 1-chlorooctadecane	0.000	57	0	0.00	ppb	
111) 0-terphenyl	0.000	230	0	0.00	ppb	
Target Compounds						
2) 1,4-Dioxane	1.945	88	241814	53.98	ppb	92
6) Indene	4.860	116	1195327	52.22	ppb	100
7) Cumene	3.977	105	1661673	48.71	ppb	99
13) Decane	4.523	57	757271	48.03	ppb	99
18) Acetophenone	4.983	105	864077m	45.84	ppb	
27) Quinoline	5.988	129	1298181	48.56	ppb	99
40) 2,3-Dichloroaniline	6.523	161	643996	40.41	ppb	98
41) Caprolactam	6.047	113	167852	45.56	ppb	91
45) 1-Methylnaphthalene	6.363	141	1177944	45.15	ppb	98
46) Dimethylnaphthalene	6.796	156	1165911	45.36	ppb	97
53) Biphenyl	6.668	154	1652230	47.94	ppb	99
82) Octadecane	8.331	43	579523	49.87	ppb	98
100) 7,12-Dimethylbenz(a)an...	13.214	256	842494	45.38	ppb	97

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P1692\
Data File : 2p40368.D
Acq On : 5 Sep 2014 8:28 pm
Operator : harpreek
Sample : icv1691-50
Misc : op77543,e2p1692,1000,,,1,1
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Sep 05 21:14:49 2014
Quant Method : C:\MSDCHEM\1\METHODS\M2P1691.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri Sep 05 20:04:39 2014
Response via : Initial Calibration



Manual Integration Approval Summary

Sample Number: E2P1692-ICV1691

Method: SW846 8270D

Lab FileID: 2P40368.D

Analyst approved: 09/05/14 21:18 Andrew Lee Smith

Injection Time: 09/05/14 20:28

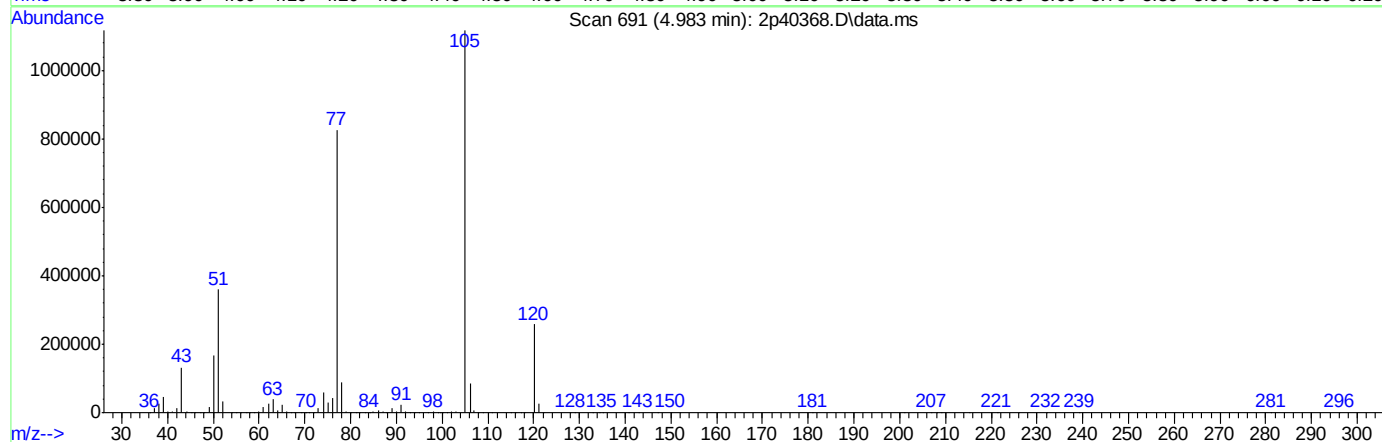
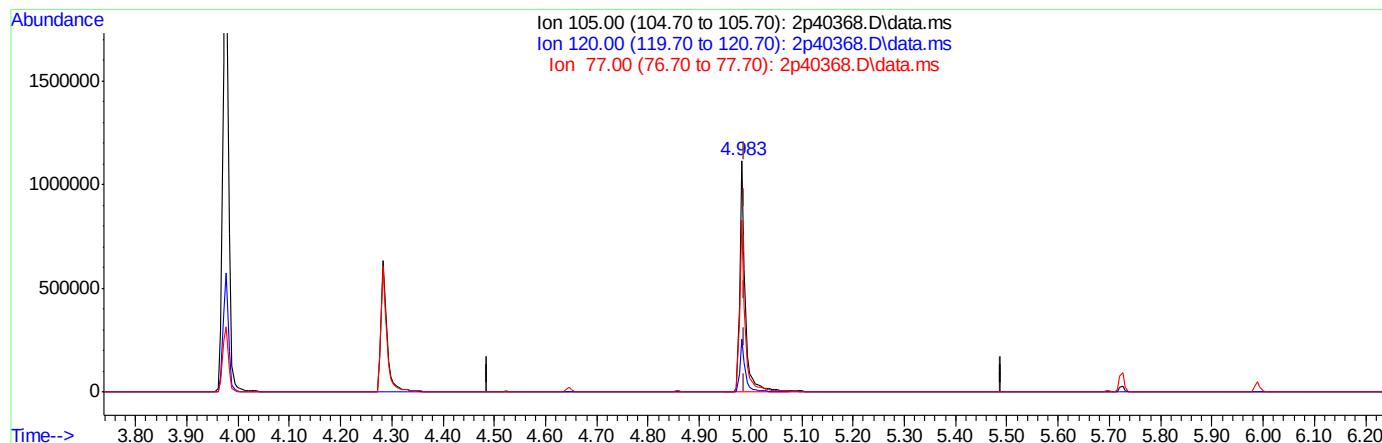
Supervisor approved: 09/08/14 09:30 Nina Pandya

Parameter	CAS	Sig#	R.T. (min.)	Reason
Acetophenone	98-86-2		4.98	Poor instrument integration

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2P1692\
Data File : 2p40368.D
Acq On : 5 Sep 2014 8:28 pm
Operator : harpreek
Sample : icv1691-50
Misc : op77543,e2p1692,1000,,,1,1
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Sep 05 21:08:11 2014
Quant Method : C:\MSDCHEM\1\METHODS\M2P1691.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri Sep 05 20:04:39 2014
Response via : Initial Calibration



(18) Acetophenone (t)

4.983min (-0.005) 45.84ppb m

response 864077

Ion	Exp%	Act%
105.00	100	100
120.00	24.20	23.10
77.00	42.40	74.02#
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P1692\
 Data File : 2p40368a.D
 Acq On : 5 Sep 2014 8:28 pm
 Operator : harpreek
 Sample : icv1692-50
 Misc : op77543,e2p1692,1000,,,1,1
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Sep 05 21:10:16 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M2P1691.M
 Quant Title : Semi Volatile Extractables by GC/MS
 QLast Update : Fri Sep 05 20:04:39 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

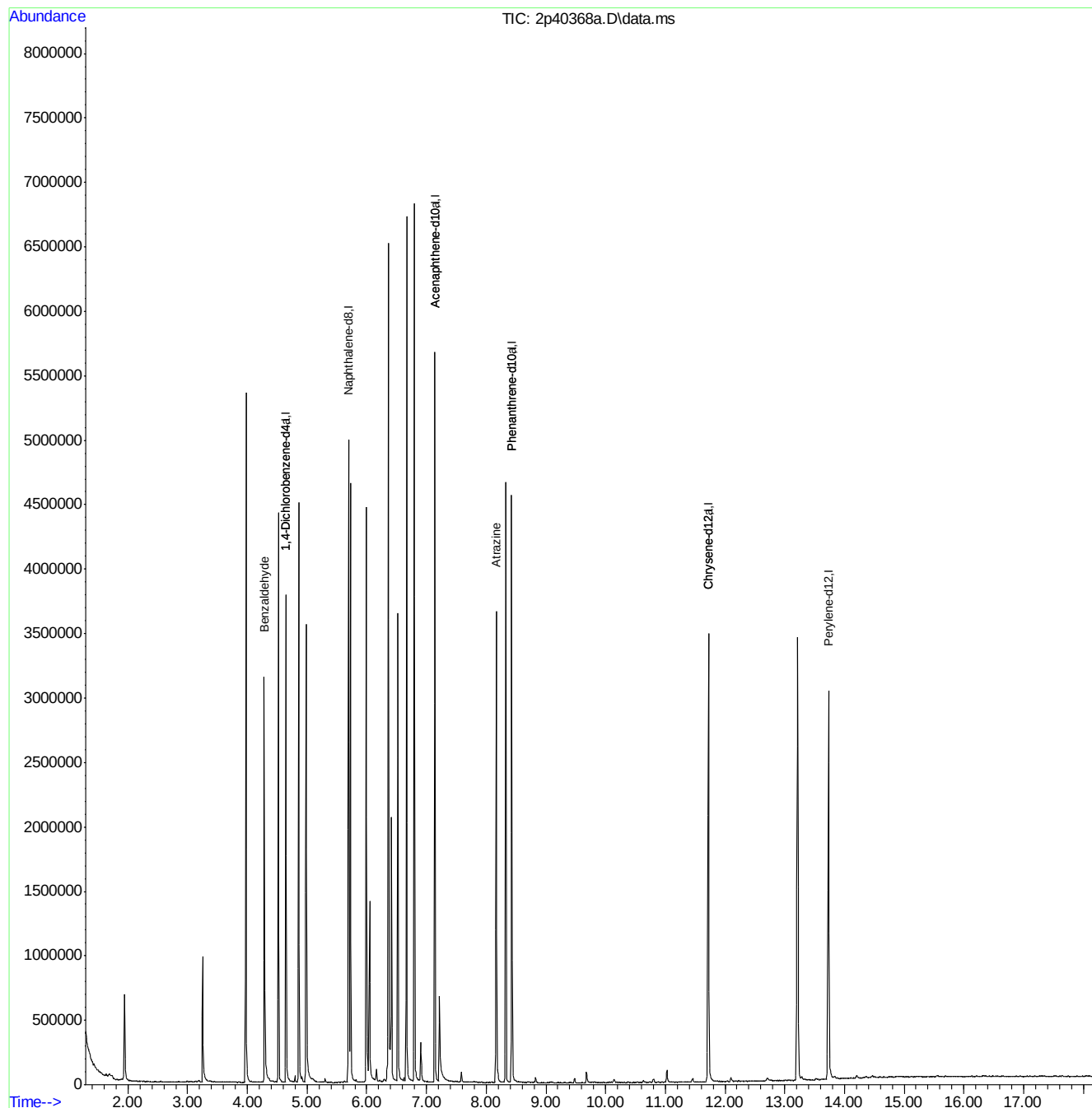
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.646	152	449406	40.00	ppb	0.00
24) Naphthalene-d8	5.694	136	1664968	40.00	ppb	0.00
47) Acenaphthene-d10	7.138	164	906121	40.00	ppb	0.00
69) Phenanthrene-d10	8.427	188	1480879	40.00	ppb	0.00
83) Chrysene-d12	11.722	240	1501409	40.00	ppb	0.00
92) Perylene-d12	13.733	264	1321256	40.00	ppb	0.00
102) 1,4-Dichlorobenzene-d4a	4.646	152	449406	40.00	ppb	0.00
104) Acenaphthene-d10a	7.138	164	906121	40.00	ppb	0.00
107) Chrysene-d12a	11.722	240	1501409	40.00	ppb	0.00
109) Phenanthrene-d10a	8.427	188	1480879	40.00	ppb	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	0.000	112	0	0.00	ppb	
Spiked Amount 50.000	Range 11 - 58		Recovery =	0.00%	#	
8) Phenol-d5	0.000	99	0d	0.00	ppb	
Spiked Amount 50.000	Range 10 - 59		Recovery =	0.00%	#	
25) Nitrobenzene-d5	0.000	82	0	0.00	ppb	
Spiked Amount 50.000	Range 19 - 61		Recovery =	0.00%	#	
51) 2-Fluorobiphenyl	0.000	172	0d	0.00	ppb	
Spiked Amount 50.000	Range 21 - 58		Recovery =	0.00%	#	
73) 2,4,6-Tribromophenol	0.000	330	0	0.00	ppb	
Spiked Amount 50.000	Range 12 - 68		Recovery =	0.00%	#	
85) Terphenyl-d14	0.000	244	0	0.00	ppb	
Spiked Amount 50.000	Range 16 - 65		Recovery =	0.00%	#	
110) 1-chlorooctadecane	0.000	57	0	0.00	ppb	
111) 0-terphenyl	0.000	230	0	0.00	ppb	
Target Compounds						
103) Benzaldehyde	4.282	105	530862	66.69	ppb	Qvalue 97
105) Atrazine	8.171	215	192281	51.83	ppb	88

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P1692\
Data File : 2p40368a.D
Acq On : 5 Sep 2014 8:28 pm
Operator : harpreek
Sample : icv1692-50
Misc : op77543,e2p1692,1000,,,1,1
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Sep 05 21:10:16 2014
Quant Method : C:\MSDCHEM\1\METHODS\M2P1691.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri Sep 05 20:04:39 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P1692\
 Data File : 2p40369.D
 Acq On : 5 Sep 2014 8:51 pm
 Operator : harpreek
 Sample : icv1691-50
 Misc : op77543,e2p1692,1000,,,1,1
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Sep 05 21:12:45 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M2P1691.M
 Quant Title : Semi Volatile Extractables by GC/MS
 QLast Update : Fri Sep 05 20:04:39 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.651	152	449533	40.00	ppb	0.00
24) Naphthalene-d8	5.694	136	1788941	40.00	ppb	0.00
47) Acenaphthene-d10	7.138	164	956165	40.00	ppb	0.00
69) Phenanthrene-d10	8.427	188	1573020	40.00	ppb	0.00
83) Chrysene-d12	11.722	240	1532988	40.00	ppb	0.00
92) Perylene-d12	13.733	264	1294459	40.00	ppb	0.00
102) 1,4-Dichlorobenzene-d4a	4.651	152	449533	40.00	ppb	0.00
104) Acenaphthene-d10a	7.138	164	956165	40.00	ppb	0.00
107) Chrysene-d12a	11.722	240	1532988	40.00	ppb	0.00
109) Phenanthrene-d10a	8.427	188	1573020	40.00	ppb	0.00

System Monitoring Compounds

5) 2-Fluorophenol	0.000	112	0	0.00	ppb	
Spiked Amount	50.000	Range	11 - 58	Recovery	=	0.00%#
8) Phenol-d5	0.000	99	0d	0.00	ppb	
Spiked Amount	50.000	Range	10 - 59	Recovery	=	0.00%#
25) Nitrobenzene-d5	0.000	82	0	0.00	ppb	
Spiked Amount	50.000	Range	19 - 61	Recovery	=	0.00%#
51) 2-Fluorobiphenyl	0.000	172	0	0.00	ppb	
Spiked Amount	50.000	Range	21 - 58	Recovery	=	0.00%#
73) 2,4,6-Tribromophenol	0.000	330	0	0.00	ppb	
Spiked Amount	50.000	Range	12 - 68	Recovery	=	0.00%#
85) Terphenyl-d14	0.000	244	0d	0.00	ppb	
Spiked Amount	50.000	Range	16 - 65	Recovery	=	0.00%#
110) 1-chlorooctadecane	0.000	57	0d	0.00	ppb	
111) 0-terphenyl	0.000	230	0	0.00	ppb	

Target Compounds

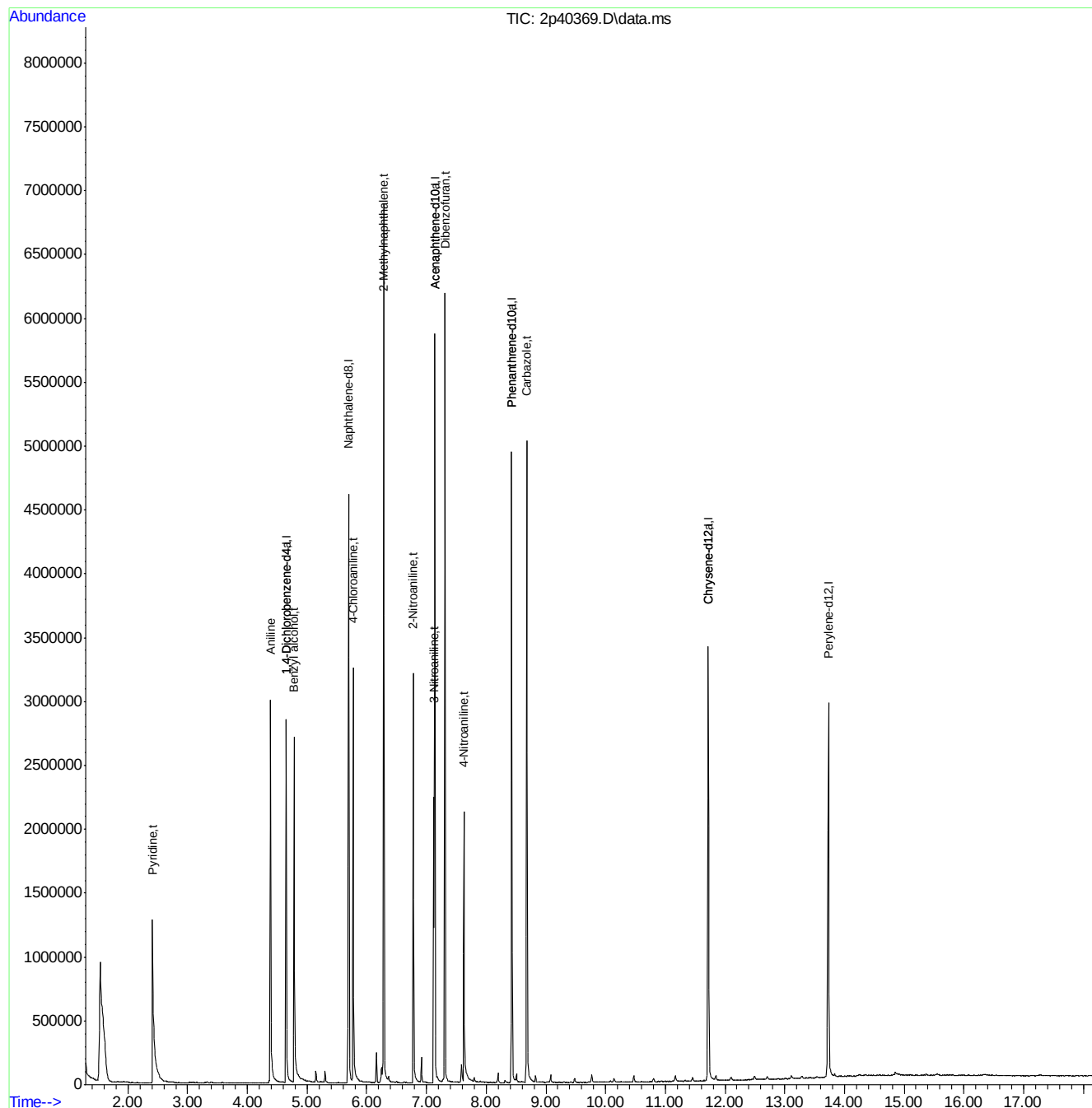
						Qvalue
3) Pyridine	2.410	79	617520	52.81	ppb	95
10) Aniline	4.389	93	961181	49.50	ppb	93
16) Benzyl alcohol	4.785	108	433011	49.93	ppb	96
39) 4-Chloroaniline	5.769	127	840224	42.80	ppb	99
44) 2-Methylnaphthalene	6.282	141	1285660	43.50	ppb	98
54) 2-Nitroaniline	6.780	65	390147	42.34	ppb	99
58) 3-Nitroaniline	7.122	138	375345	43.17	ppb	99
62) Dibenzofuran	7.309	168	1902685	45.71	ppb	95
68) 4-Nitroaniline	7.625	138	356926	43.72	ppb	91
79) Carbazole	8.679	167	1994787	49.59	ppb	100

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P1692\
Data File : 2p40369.D
Acq On : 5 Sep 2014 8:51 pm
Operator : harpreek
Sample : icv1691-50
Misc : op77543,e2p1692,1000,,,1,1
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Sep 05 21:12:45 2014
Quant Method : C:\MSDCHEM\1\METHODS\M2P1691.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri Sep 05 20:04:39 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P1692\
 Data File : 2p40371.D
 Acq On : 5 Sep 2014 9:37 pm
 Operator : harpreek
 Sample : icv1692-50
 Misc : op77543,e2p1692,1000,,,1,1
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Sep 05 22:08:57 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M2P1691.M
 Quant Title : Semi Volatile Extractables by GC/MS
 QLast Update : Fri Sep 05 20:04:39 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

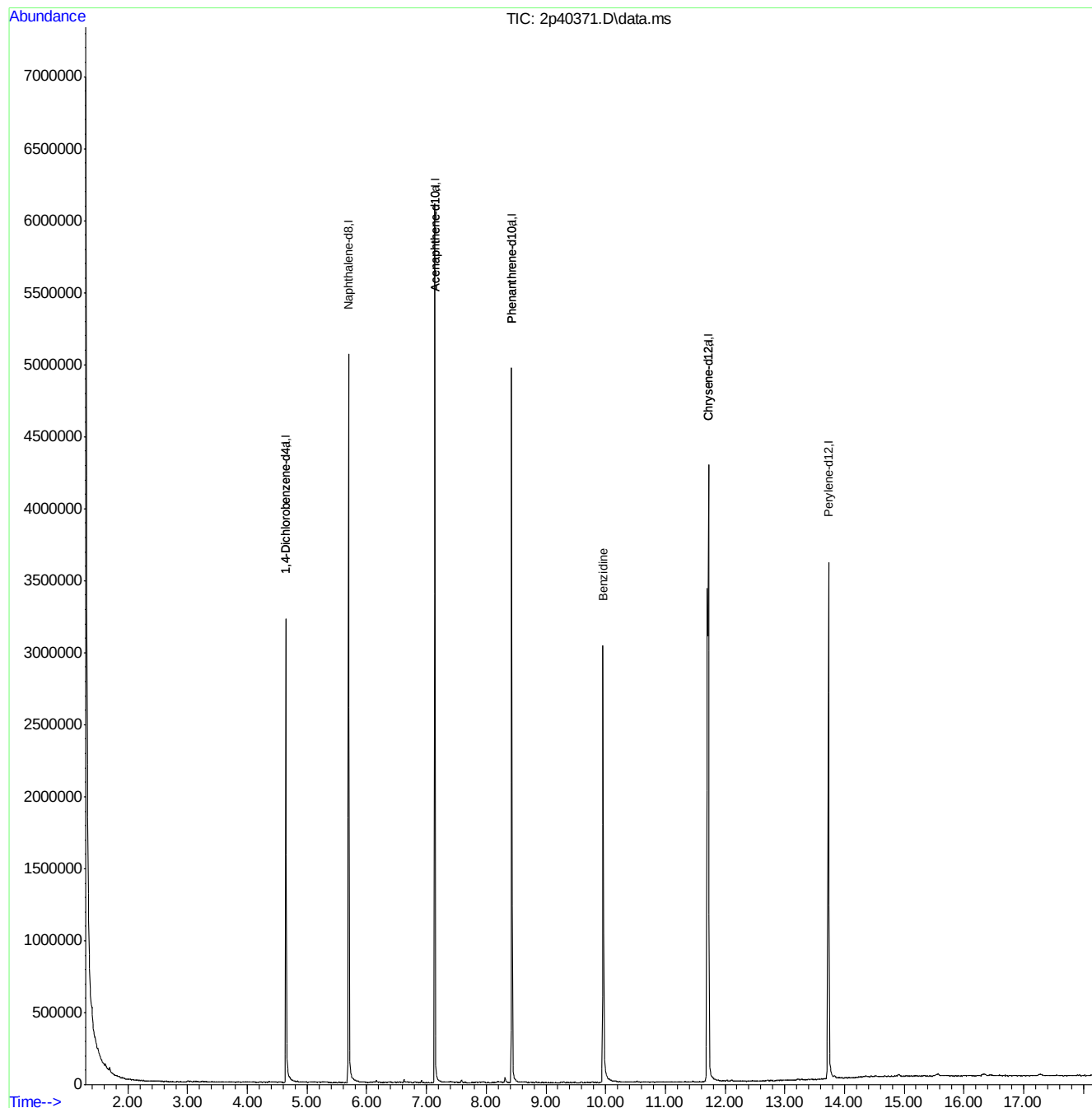
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.646	152	462682	40.00	ppb	0.00
24) Naphthalene-d8	5.694	136	1769708	40.00	ppb	0.00
47) Acenaphthene-d10	7.138	164	1005825	40.00	ppb	0.00
69) Phenanthrene-d10	8.427	188	1694947	40.00	ppb	0.00
83) Chrysene-d12	11.722	240	1670633	40.00	ppb	0.00
92) Perylene-d12	13.733	264	1538601	40.00	ppb	0.00
102) 1,4-Dichlorobenzene-d4a	4.646	152	462682	40.00	ppb	0.00
104) Acenaphthene-d10a	7.138	164	1005825	40.00	ppb	0.00
107) Chrysene-d12a	11.722	240	1670633	40.00	ppb	0.00
109) Phenanthrene-d10a	8.427	188	1694947	40.00	ppb	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	0.000	112	0	0.00	ppb	
Spiked Amount	50.000	Range	11 - 58	Recovery	=	0.00%#
8) Phenol-d5	0.000	99	0d	0.00	ppb	
Spiked Amount	50.000	Range	10 - 59	Recovery	=	0.00%#
25) Nitrobenzene-d5	0.000	82	0	0.00	ppb	
Spiked Amount	50.000	Range	19 - 61	Recovery	=	0.00%#
51) 2-Fluorobiphenyl	0.000	172	0d	0.00	ppb	
Spiked Amount	50.000	Range	21 - 58	Recovery	=	0.00%#
73) 2,4,6-Tribromophenol	0.000	330	0	0.00	ppb	
Spiked Amount	50.000	Range	12 - 68	Recovery	=	0.00%#
85) Terphenyl-d14	0.000	244	0d	0.00	ppb	
Spiked Amount	50.000	Range	16 - 65	Recovery	=	0.00%#
110) 1-chlorooctadecane	0.000	57	0d	0.00	ppb	
111) O-terphenyl	0.000	230	0	0.00	ppb	
Target Compounds						
108) Benzidine	9.957	184	1371879	61.25	ppb	Qvalue 99

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P1692\
Data File : 2p40371.D
Acq On : 5 Sep 2014 9:37 pm
Operator : harpreek
Sample : icv1692-50
Misc : op77543,e2p1692,1000,,,1,1
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Sep 05 22:08:57 2014
Quant Method : C:\MSDCHEM\1\METHODS\M2P1691.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri Sep 05 20:04:39 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P1692\
 Data File : 2p40372.D
 Acq On : 5 Sep 2014 10:00 pm
 Operator : harpreek
 Sample : icv1691-50
 Misc : op77543,e2p1692,1000,,,1,1
 ALS Vial : 16 Sample Multiplier: 1

Quant Time: Sep 05 22:33:55 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M2P1691.M
 Quant Title : Semi Volatile Extractables by GC/MS
 QLast Update : Fri Sep 05 20:04:39 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.646	152	469788	40.00	ppb	0.00
24) Naphthalene-d8	5.699	136	1783036	40.00	ppb	0.00
47) Acenaphthene-d10	7.144	164	947917	40.00	ppb	0.00
69) Phenanthrene-d10	8.433	188	1597861	40.00	ppb	0.00
83) Chrysene-d12	11.727	240	1491233	40.00	ppb	0.01
92) Perylene-d12	13.738	264	1357935	40.00	ppb	0.01
102) 1,4-Dichlorobenzene-d4a	4.646	152	469788	40.00	ppb	0.00
104) Acenaphthene-d10a	7.144	164	947917	40.00	ppb	0.00
107) Chrysene-d12a	11.727	240	1491233	40.00	ppb	0.01
109) Phenanthrene-d10a	8.433	188	1597861	40.00	ppb	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	3.581	112	705990	55.92	ppb	0.00
Spiked Amount 50.000	Range 11	- 58	Recovery	=	111.84%#	
8) Phenol-d5	4.394	99	802569	50.03	ppb	0.00
Spiked Amount 50.000	Range 10	- 59	Recovery	=	100.06%#	
25) Nitrobenzene-d5	5.111	82	746947	51.92	ppb	0.00
Spiked Amount 50.000	Range 19	- 61	Recovery	=	103.84%#	
51) 2-Fluorobiphenyl	6.587	172	1696980	54.98	ppb	0.00
Spiked Amount 50.000	Range 21	- 58	Recovery	=	109.96%#	
73) 2,4,6-Tribromophenol	7.801	330	233695	49.91	ppb	0.00
Spiked Amount 50.000	Range 12	- 68	Recovery	=	99.82%#	
85) Terphenyl-d14	10.283	244	1708112	55.34	ppb	0.00
Spiked Amount 50.000	Range 16	- 65	Recovery	=	110.68%#	
110) 1-chlorooctadecane	0.000	57	0	0.00	ppb	
111) 0-terphenyl	0.000	230	0	0.00	ppb	

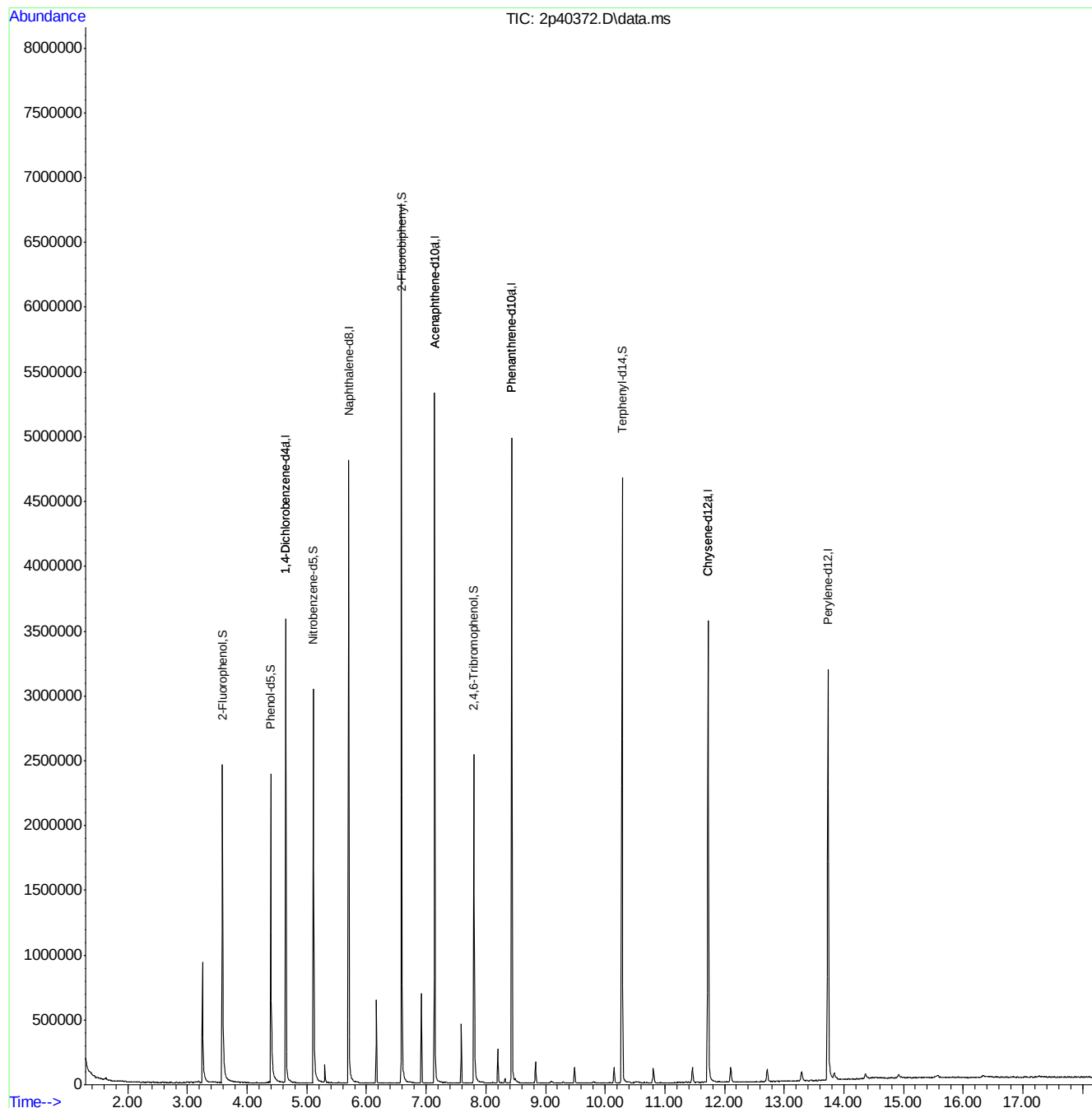
Target Compounds Qvalue

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P1692\
Data File : 2p40372.D
Acq On : 5 Sep 2014 10:00 pm
Operator : harpreek
Sample : icv1691-50
Misc : op77543,e2p1692,1000,,,1,1
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Sep 05 22:33:55 2014
Quant Method : C:\MSDCHEM\1\METHODS\M2P1691.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri Sep 05 20:04:39 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P1697\
 Data File : 2p40502.D
 Acq On : 9 Sep 2014 8:00 am
 Operator : samtap
 Sample : cc1691-50
 Misc : op77543,e2p1697
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 09 10:45:30 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M2P1691.M
 Quant Title : Semi Volatile Extractables by GC/MS
 QLast Update : Tue Sep 09 10:44:38 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.630	152	503375	40.00	ppb	0.00
24) Naphthalene-d8	5.683	136	1868997	40.00	ppb	0.00
47) Acenaphthene-d10	7.122	164	1131313	40.00	ppb	0.00
69) Phenanthrene-d10	8.411	188	1915825	40.00	ppb	0.00
83) Chrysene-d12	11.701	240	1902316	40.00	ppb	0.00
92) Perylene-d12	13.712	264	1526969	40.00	ppb	0.00
102) 1,4-Dichlorobenzene-d4a	4.630	152	503375	40.00	ppb	0.00
104) Acenaphthene-d10a	7.122	164	1131313	40.00	ppb	0.00
107) Chrysene-d12a	11.701	240	1902316	40.00	ppb	0.00

System Monitoring Compounds

5) 2-Fluorophenol	3.576	112	706579	52.23	ppb	0.00
Spiked Amount 50.000	Range 11	- 58	Recovery	=	104.46%#	
8) Phenol-d5	4.389	99	880211	51.21	ppb	0.00
Spiked Amount 50.000	Range 10	- 59	Recovery	=	102.42%#	
25) Nitrobenzene-d5	5.100	82	756942	50.19	ppb	0.00
Spiked Amount 50.000	Range 19	- 61	Recovery	=	100.38%#	
51) 2-Fluorobiphenyl	6.571	172	1757341	47.71	ppb	0.00
Spiked Amount 50.000	Range 21	- 58	Recovery	=	95.42%#	
73) 2,4,6-Tribromophenol	7.785	330	274929	48.97	ppb	0.00
Spiked Amount 50.000	Range 12	- 68	Recovery	=	97.94%#	
85) Terphenyl-d14	10.246	244	1911257	48.54	ppb	0.00
Spiked Amount 50.000	Range 16	- 65	Recovery	=	97.08%#	

Target Compounds

						Qvalue
2) 1,4-Dioxane	1.902	88	208259	41.51	ppb	98
3) Pyridine	2.255	79	563342	43.02	ppb	86
4) N-Nitrosodimethylamine	2.228	74	366145	49.41	ppb	75
6) Indene	4.844	116	1299545	50.69	ppb	100
7) Cumene	3.956	105	1938930	50.75	ppb	99
9) Phenol	4.400	94	1013898	52.36	ppb	96
10) Aniline	4.368	93	845666	38.89	ppb	73
11) bis(2-Chloroethyl)ether	4.421	93	692704	55.06	ppb	97
12) 2-Chlorophenol	4.475	128	914563	52.30	ppb	97
13) Decane	4.507	57	868062	49.15	ppb	98
14) 1,3-Dichlorobenzene	4.582	146	1057968	53.45	ppb	97
15) 1,4-Dichlorobenzene	4.646	146	1050767	52.01	ppb	99
16) Benzyl alcohol	4.769	108	508894	52.40	ppb	96
17) 1,2-Dichlorobenzene	4.769	146	1005401	53.91	ppb	98
18) Acetophenone	4.972	105	1055826	50.00	ppb	# 68
19) 2-Methylphenol	4.892	108	636569	48.29	ppb	96
20) 2,2'-oxybis(1-Chloropr...	4.865	121	224664	51.97	ppb	98
21) 3&4-Methylphenol	5.015	108	710528	51.17	ppb	97
22) n-Nitroso-di-n-propyla...	4.983	70	513359	55.79	ppb	94
23) Hexachloroethane	5.042	201	393608	52.19	ppb	92
26) Nitrobenzene	5.117	77	794327	52.91	ppb	98
27) Quinoline	5.994	129	1537222	51.22	ppb	99
28) Isophorone	5.314	82	1321263	53.44	ppb	98
29) 2-Nitrophenol	5.379	139	544994	56.34	ppb	94

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P1697\
 Data File : 2p40502.D
 Acq On : 9 Sep 2014 8:00 am
 Operator : samtap
 Sample : cc1691-50
 Misc : op77543,e2p1697
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 09 10:45:30 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M2P1691.M
 Quant Title : Semi Volatile Extractables by GC/MS
 QLast Update : Tue Sep 09 10:44:38 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
30) 2,4-Dimethylphenol	5.437	107	773966	51.76	ppb	98
31) Benzoic acid	5.593	105	587869m	59.95	ppb	
32) bis(2-Chloroethoxy)met...	5.491	93	795992	52.26	ppb	99
33) 2,4-Dichlorophenol	5.598	162	783809	54.63	ppb	98
34) 2,6-Dichlorophenol	5.769	162	761474	53.21	ppb	98
35) 1,3,5-Trichlorobenzene	5.384	180	893194	51.48	ppb	98
36) 1,2,4-Trichlorobenzene	5.641	180	852712	51.48	ppb	99
37) 1,2,3-Trichlorobenzene	5.823	180	785871	50.18	ppb	98
38) Naphthalene	5.700	128	2500974	50.62	ppb	99
39) 4-Chloroaniline	5.758	127	942236	45.95	ppb	99
40) 2,3-Dichloroaniline	6.507	161	893173	49.93	ppb	99
41) Caprolactam	6.074	113	219761	53.13	ppb	86
42) Hexachlorobutadiene	5.801	225	484774	52.14	ppb	99
43) 4-Chloro-3-methylphenol	6.192	107	750550	56.26	ppb	92
44) 2-Methylnaphthalene	6.266	141	1573269	50.95	ppb	99
45) 1-Methylnaphthalene	6.347	141	1473537	50.32	ppb	99
46) Dimethylnaphthalene	6.780	156	1459800	50.59	ppb	99
48) Hexachlorocyclopentadiene	6.395	237	767437	99.73	ppb	99
49) 2,4,6-Trichlorophenol	6.523	196	554243	51.98	ppb	99
50) 2,4,5-Trichlorophenol	6.571	196	551656	48.34	ppb	99
52) 2-Chloronaphthalene	6.668	162	1597263	48.74	ppb	99
53) Biphenyl	6.652	154	2055125	47.76	ppb	99
54) 2-Nitroaniline	6.769	65	508780	46.67	ppb	98
55) Dimethylphthalate	6.908	163	1881473	52.17	ppb	99
56) Acenaphthylene	7.010	152	2717623	48.02	ppb	99
57) 2,6-Dinitrotoluene	6.967	165	434582	50.55	ppb	95
58) 3-Nitroaniline	7.112	138	494943	48.11	ppb	98
59) Acenaphthene	7.149	153	1741580	47.64	ppb	97
60) 2,4-Dinitrophenol	7.208	184	534073	105.95	ppb	97
61) 4-Nitrophenol	7.304	109	252736	58.32	ppb	# 9
62) Dibenzofuran	7.293	168	2364977	48.02	ppb	96
63) 2,4-Dinitrotoluene	7.304	165	582913	51.37	ppb	73
64) 2,3,4,6-Tetrachlorophenol	7.411	232	499925	53.52	ppb	93
65) Diethylphthalate	7.486	149	1882188	52.52	ppb	98
66) Fluorene	7.577	166	1934639	49.59	ppb	99
67) 4-Chlorophenyl-phenyle...	7.572	204	940358	54.41	ppb	98
68) 4-Nitroaniline	7.625	138	469703	48.63	ppb	97
70) 4,6-Dinitro-2-methylph...	7.652	198	380987	60.41	ppb	96
71) n-Nitrosodiphenylamine	7.679	169	1275846	50.17	ppb	99
72) 1,2-Diphenylhydrazine	7.705	77	1585907	52.80	ppb	98
74) 4-Bromophenyl-phenylether	7.989	248	542421	52.02	ppb	99
75) Hexachlorobenzene	8.058	284	670773	53.25	ppb	98
76) Pentachlorophenol	8.256	266	758787	118.07	ppb	99
77) Phenanthrene	8.438	178	2822368	49.26	ppb	99
78) Anthracene	8.486	178	2825813	49.00	ppb	99
79) Carbazole	8.657	167	2463338	50.28	ppb	99
80) Di-n-butylphthalate	9.026	149	3348929	54.31	ppb	100
81) Fluoranthene	9.748	202	3291701	49.64	ppb	98
82) Octadecane	8.304	43	757575	50.39	ppb	93
84) Pyrene	10.027	202	3400406	50.16	ppb	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P1697\
 Data File : 2p40502.D
 Acq On : 9 Sep 2014 8:00 am
 Operator : samtap
 Sample : cc1691-50
 Misc : op77543,e2p1697
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 09 10:45:30 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M2P1691.M
 Quant Title : Semi Volatile Extractables by GC/MS
 QLast Update : Tue Sep 09 10:44:38 2014
 Response via : Initial Calibration

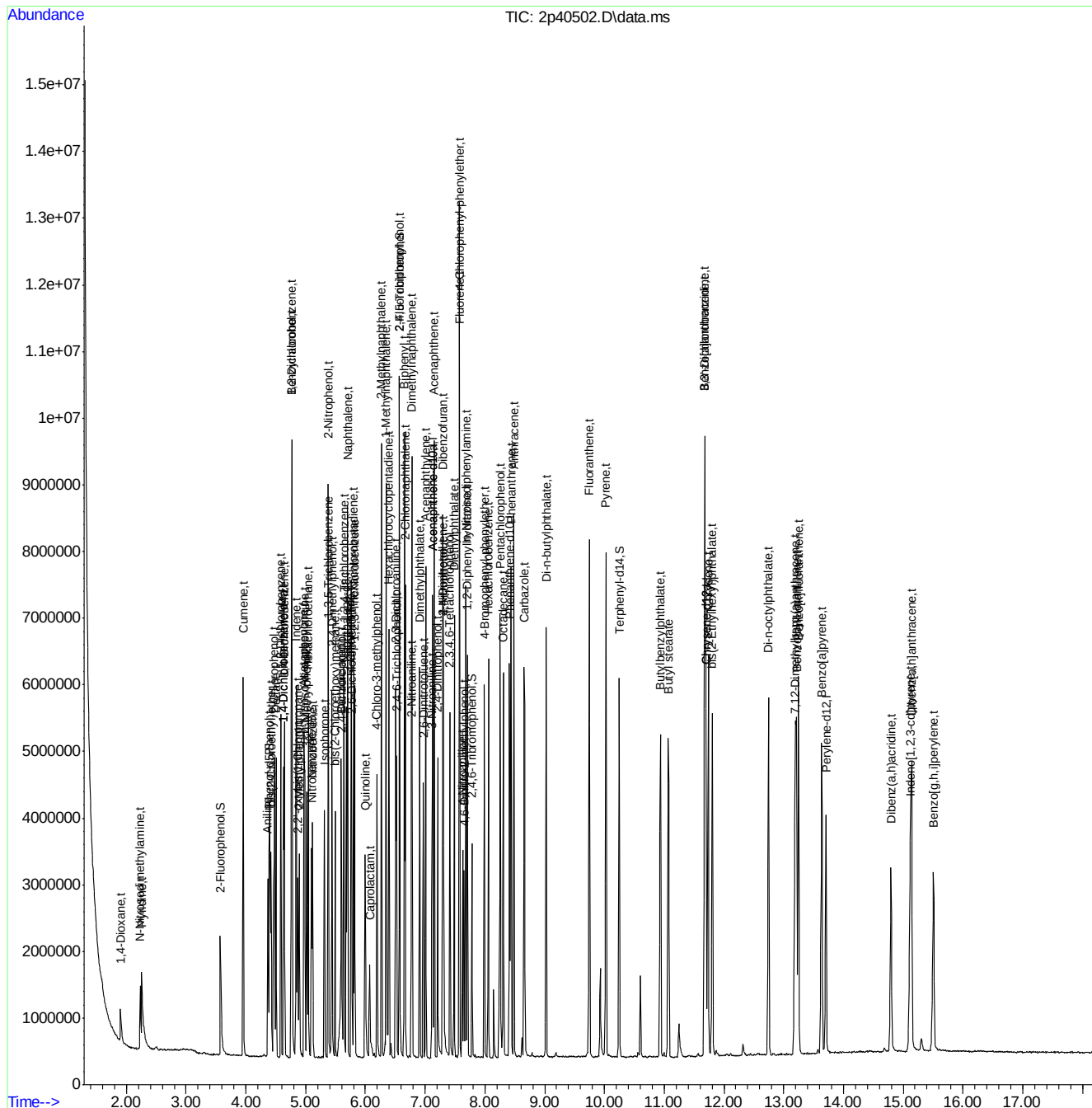
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
86) Butylbenzylphthalate	10.936	149	1499414	54.14	ppb	94
87) Butyl stearate	11.070	56	879082	48.44	ppb	96
88) Benzo[a]anthracene	11.679	228	2905427	48.01	ppb	99
89) 3,3'-Dichlorobenzidine	11.679	252	1072674	50.44	ppb	100
90) Chrysene	11.738	228	2501313	47.94	ppb	99
91) bis(2-Ethylhexyl)phtha...	11.802	149	1956267	54.54	ppb	100
93) Di-n-octylphthalate	12.749	149	3522512	60.21	ppb	99
94) Benzo[b]fluoranthene	13.214	252	2759718	52.64	ppb	100
95) Benzo[k]fluoranthene	13.252	252	2507719	52.49	ppb	99
96) Benzo[a]pyrene	13.637	252	2284902	50.50	ppb	99
97) Indeno[1,2,3-cd]pyrene	15.118	276	2421525	46.14	ppb	100
98) Dibenz(a,h)acridine	14.798	279	1522897	43.49	ppb	100
99) Dibenz[a,h]anthracene	15.140	278	2008072	48.24	ppb	98
100) 7,12-Dimethylbenz(a)an...	13.193	256	1137037	52.99	ppb	96
101) Benzo[g,h,i]perylene	15.509	276	1761755	42.74	ppb	97

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P1697\
Data File : 2p40502.D
Acq On : 9 Sep 2014 8:00 am
Operator : samtap
Sample : cc1691-50
Misc : op77543,e2p1697
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 09 10:45:30 2014
Quant Method : C:\MSDCHEM\1\METHODS\M2P1691.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Tue Sep 09 10:44:38 2014
Response via : Initial Calibration



Manual Integration Approval Summary

Sample Number:

E2P1697-CC1691

Method:

SW846 8270D

Lab FileID:

2P40502.D

Analyst approved:

09/09/14 10:47 Olga Azarihn

Injection Time:

09/09/14 08:00

Supervisor approved:

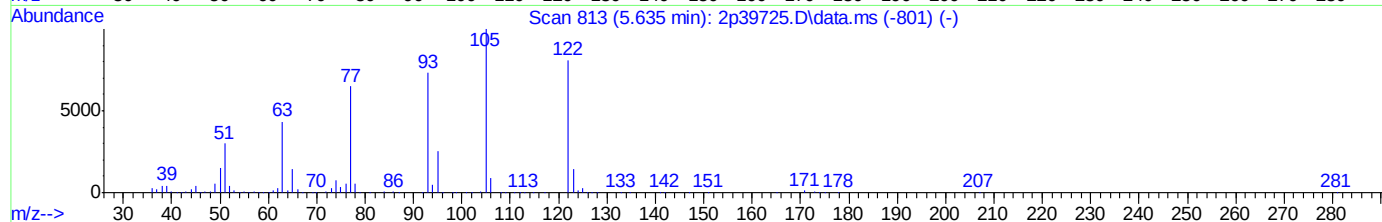
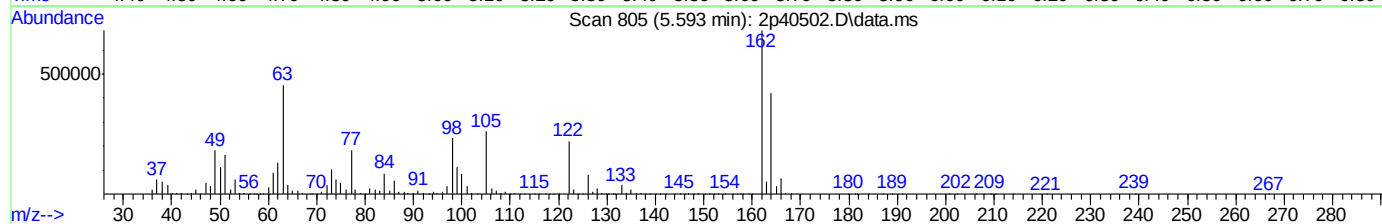
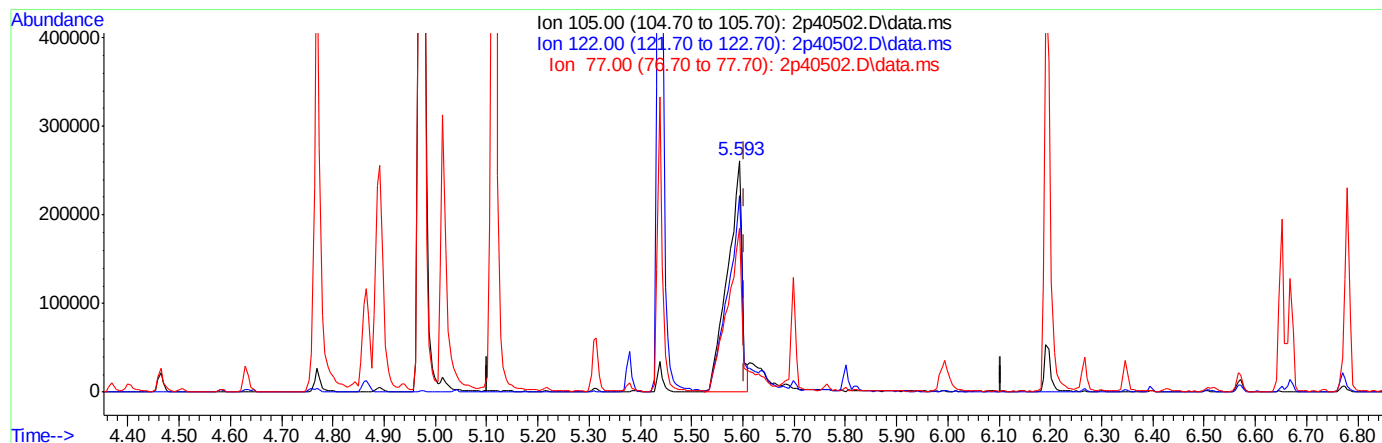
09/09/14 11:32 Nina Pandya

Parameter	CAS	Sig#	R.T. (min.)	Reason
Benzoic acid	65-85-0		5.59	Split peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2P1697\
Data File : 2p40502.D
Acq On : 9 Sep 2014 8:00 am
Operator : samtap
Sample : cc1691-50
Misc : op77543,e2p1697
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 09 08:17:13 2014
Quant Method : C:\MSDCHEM\1\METHODS\M2P1691.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri Sep 05 20:04:39 2014
Response via : Initial Calibration



TIC: 2p40502.D\data.ms

(31) Benzoic acid (t)

5.593min (-0.011) 52.27ppb

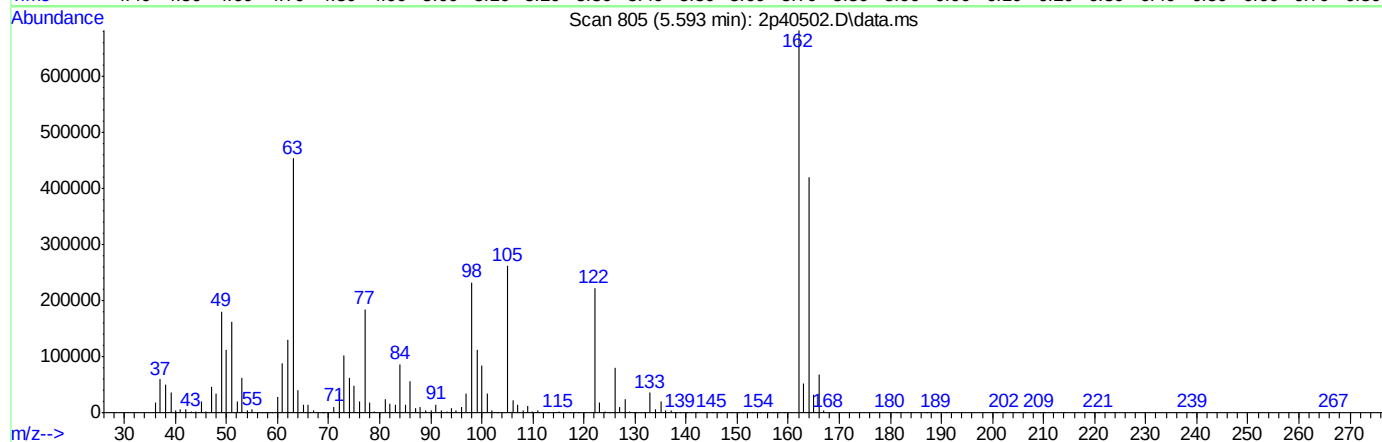
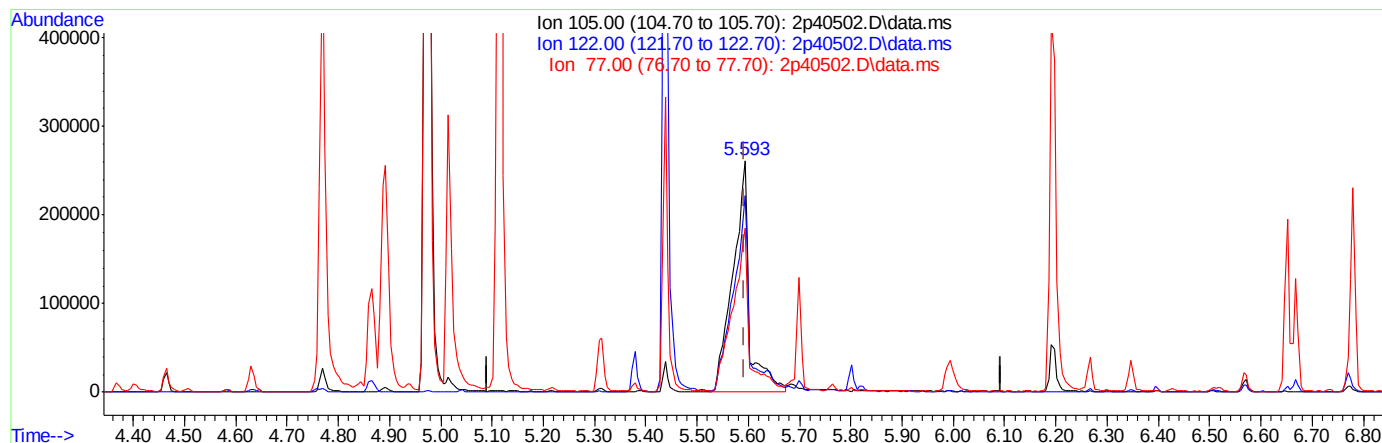
response 512598

Ion	Exp%	Act%
105.00	100	100
122.00	78.30	84.34
77.00	68.30	69.66
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\2P1697\
Data File : 2p40502.D
Acq On : 9 Sep 2014 8:00 am
Operator : samtap
Sample : cc1691-50
Misc : op77543,e2p1697
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 09 10:45:30 2014
Quant Method : C:\MSDCHEM\1\METHODS\M2P1691.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Tue Sep 09 10:44:38 2014
Response via : Initial Calibration



(31) Benzoic acid (t)

5.593min (0.000) 59.95ppb m

response 587869

Ion	Exp%	Act%
105.00	100	100
122.00	78.30	84.90
77.00	68.30	70.61
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P1697\
 Data File : 2p40503.D
 Acq On : 9 Sep 2014 8:32 am
 Operator : samtap
 Sample : cc1692-50
 Misc : op77543,e2p1697
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 10 12:29:34 2014
 Quant Method : C:\MSDCHEM\1\METHODS\M2P1691.M
 Quant Title : Semi Volatile Extractables by GC/MS
 QLast Update : Fri Sep 05 20:04:39 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

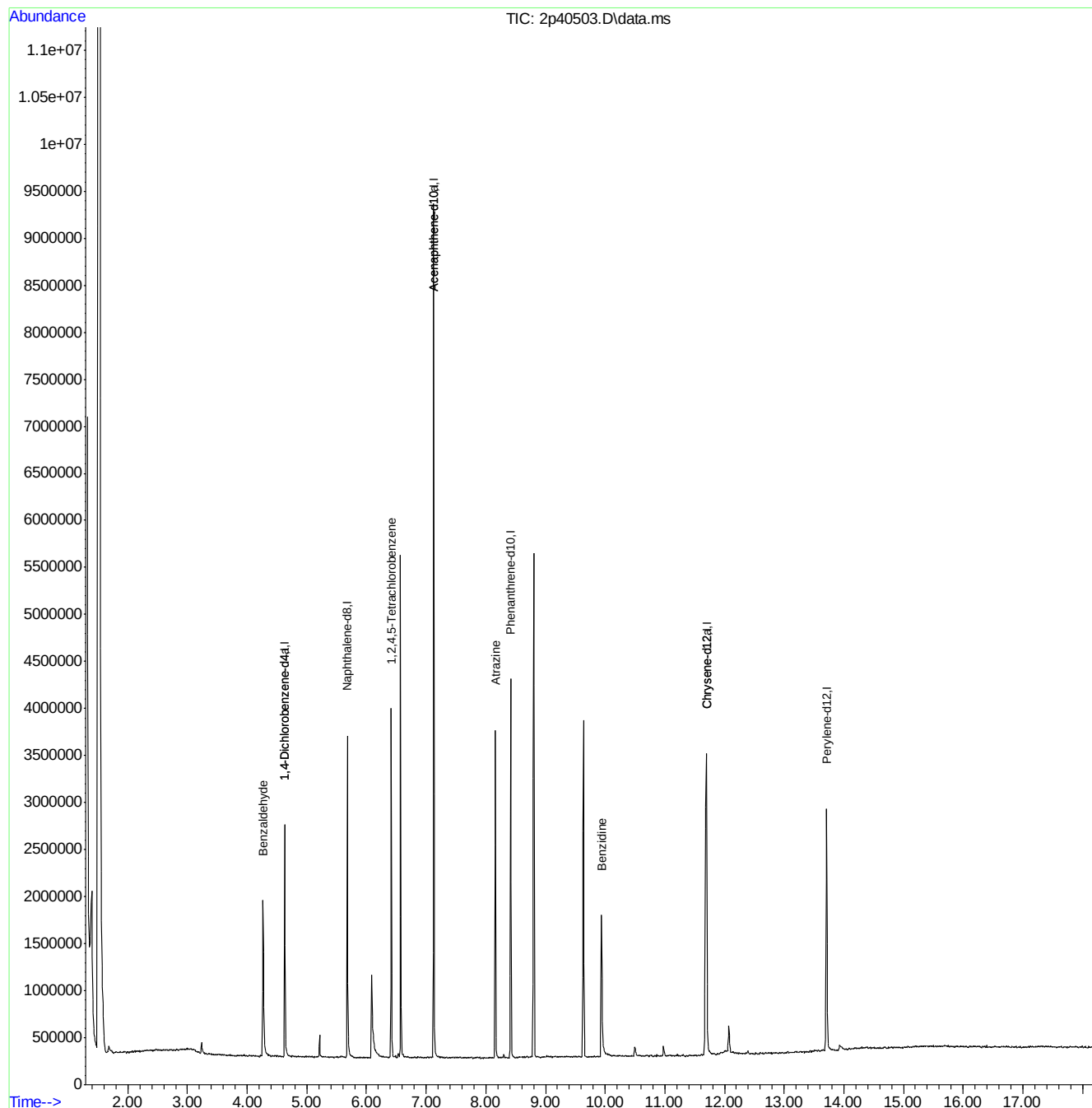
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.630	152	352641	40.00	ppb	-0.02
24) Naphthalene-d8	5.678	136	1366659	40.00	ppb	-0.02
47) Acenaphthene-d10	7.127	164	809992	40.00	ppb	-0.01
69) Phenanthrene-d10	8.416	188	1321868	40.00	ppb	-0.01
83) Chrysene-d12	11.701	240	1294238	40.00	ppb	-0.02
92) Perylene-d12	13.712	264	1093189	40.00	ppb	-0.02
102) 1,4-Dichlorobenzene-d4a	4.630	152	352641	40.00	ppb	-0.02
104) Acenaphthene-d10a	7.127	164	809992	40.00	ppb	-0.01
107) Chrysene-d12a	11.701	240	1294238	40.00	ppb	-0.02
System Monitoring Compounds						
5) 2-Fluorophenol	0.000	112	0	0.00	ppb	
Spiked Amount	50.000	Range 11 - 58	Recovery	=	0.00%#	
8) Phenol-d5	0.000	99	0d	0.00	ppb	
Spiked Amount	50.000	Range 10 - 59	Recovery	=	0.00%#	
25) Nitrobenzene-d5	0.000	82	0d	0.00	ppb	
Spiked Amount	50.000	Range 19 - 61	Recovery	=	0.00%#	
51) 2-Fluorobiphenyl	0.000	172	0d	0.00	ppb	
Spiked Amount	50.000	Range 21 - 58	Recovery	=	0.00%#	
73) 2,4,6-Tribromophenol	0.000	330	0	0.00	ppb	
Spiked Amount	50.000	Range 12 - 68	Recovery	=	0.00%#	
85) Terphenyl-d14	0.000	244	0d	0.00	ppb	
Spiked Amount	50.000	Range 16 - 65	Recovery	=	0.00%#	
Target Compounds						
103) Benzaldehyde	4.266	105	320363	51.29	ppb	Qvalue 97
105) Atrazine	8.160	215	171533	51.73	ppb	# 82
106) 1,2,4,5-Tetrachloroben...	6.416	216	591285	47.43	ppb	100
108) Benzidine	9.941	184	788777	45.46	ppb	99

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2P1697\
Data File : 2p40503.D
Acq On : 9 Sep 2014 8:32 am
Operator : samtap
Sample : cc1692-50
Misc : op77543,e2p1697
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 10 12:29:34 2014
Quant Method : C:\MSDCHEM\1\METHODS\M2P1691.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri Sep 05 20:04:39 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP3770\P88231.D Vial: 2
 Acq On : 22 Aug 2014 6:37 pm Operator: kristis
 Sample : ic3770-100 Inst : MSP
 Misc : op76634,ep3770,1000,,,1,1 Multiplr: 1.00
 MS Integration Params: rteint.p
 Quant Time: Aug 23 09:21:13 2014 Quant Results File: MP3770.RES

Quant Method : C:\MSDCHEM\1\METHODS\MP3770.M (RTE Integrator)
 Title : Semi Volatile Extractables by GC/MS
 Last Update : Sat Aug 23 09:21:06 2014
 Response via : Initial Calibration
 DataAcq Meth : MP3770

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.37	152	56505	40.00	ppb	0.00
24) Naphthalene-d8	6.12	136	207911	40.00	ppb	0.00
47) Acenaphthene-d10	8.84	164	90759	40.00	ppb	0.00
69) Phenanthrene-d10	11.19	188	160063	40.00	ppb	0.00
83) Chrysene-d12	15.90	240	145258	40.00	ppb	-0.01
92) Perylene-d12	18.46	264	138431	40.00	ppb	0.00
102) 1,4-Dichlorobenzene-d4A	4.37	152	56505	40.00	ppb	0.00
112) Naphthalene-d8A	6.12	136	207911	40.00	ppb	0.00
120) Acenaphthene-d10A	8.84	164	90759	40.00	ppb	0.00
131) Phenanthrene-d10A	11.19	188	160063	40.00	ppb	0.00
146) Chrysene-d12A	15.90	240	145258	40.00	ppb	-0.01
154) Perylene-d12A	18.46	264	138431	40.00	ppb	0.00
157) 1,4-Dichlorobenzene-d4b	4.37	152	56505	40.00	ppb	0.00
159) Phenanthrene-d10b	11.19	188	160063	40.00	ppb	0.00
161) Chrysene-d12b	15.90	240	145258	40.00	ppb	0.00
163) Naphthalene-d8b	6.12	136	207911	40.00	ppb	0.00
165) Acenaphthene-d10b	8.84	164	90759	40.00	ppb	0.00
167) Naphthalene-d8c	6.12	136	207911	40.00	ppb	0.00
172) 1,4-Dichlorobenzene-d4a	4.37	152	56505	40.00	ppb	0.00
174) Chrysene-d12c	15.90	240	145258	40.00	ppb	-0.01
176) Chrysene-d12d	15.90	240	145258	40.00	ppb	-0.01
178) Naphthalene-d8a	6.12	136	207911	40.00	ppb	0.00
180) Naphthalene-d8b	6.12	136	207911	40.00	ppb	0.00
182) Perylene-d12a	18.46	264	138431	40.00	ppb	-0.02

System Monitoring Compounds

5) 2-Fluorophenol	0.00	112	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
8) Phenol-d5	0.00	99	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
25) Nitrobenzene-d5	0.00	82	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
51) 2-Fluorobiphenyl	0.00	172	0d	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
73) 2,4,6-Tribromophenol	0.00	330	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
85) Terphenyl-d14	0.00	244	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	

Target Compounds

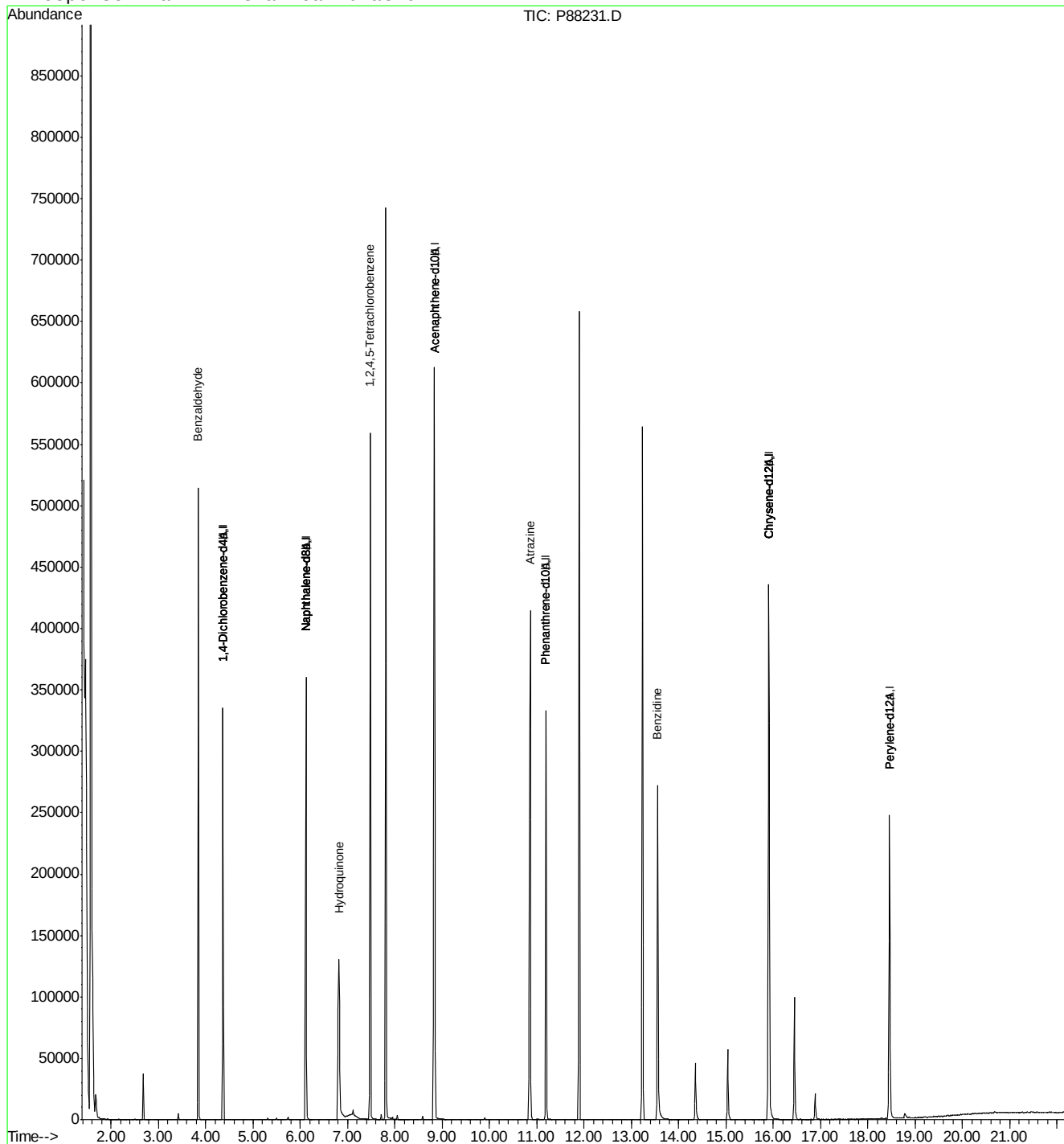
						Qvalue
158) Benzaldehyde	3.84	105	114434	100.00	ppb	100
160) Atrazine	10.86	200	77683	100.00	ppb	100
162) Benzidine	13.55	184	169713	100.00	ppb	100
164) Hydroquinone	6.82	110	147309	100.00	ppb	100
166) 1,2,4,5-Tetrachlorobenzene	7.48	216	125236	100.00	ppb	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 P88231.D MP3770.M Sat Aug 23 13:52:03 2014

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP3770\P88231.D Vial: 2
Acq On : 22 Aug 2014 6:37 pm Operator: kristis
Sample : ic3770-100 Inst : MSP
Misc : op76634,ep3770,1000,,1,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 23 9:22 2014 Quant Results File: MP3770.RES

Method : C:\MSDCHEM\1\METHODS\MP3770.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Sat Aug 23 10:46:47 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP3770\P88232.D

Vial: 3

Acq On : 22 Aug 2014 7:06 pm

Operator: kristis

Sample : ic3770-80

Inst : MSP

Misc : op76634,ep3770,1000,,,1,1

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Aug 23 09:22:07 2014

Quant Results File: MP3770.RES

Quant Method : C:\MSDCHEM\1\METHODS\MP3770.M (RTE Integrator)

Title : Semi Volatile Extractables by GC/MS

Last Update : Sat Aug 23 09:21:06 2014

Response via : Initial Calibration

DataAcq Meth : MP3770

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.37	152	66748	40.00	ppb	0.00
24) Naphthalene-d8	6.12	136	241238	40.00	ppb	0.00
47) Acenaphthene-d10	8.84	164	108397	40.00	ppb	0.00
69) Phenanthrene-d10	11.20	188	189618	40.00	ppb	0.00
83) Chrysene-d12	15.91	240	172193	40.00	ppb	0.00
92) Perylene-d12	18.46	264	169194	40.00	ppb	0.00
102) 1,4-Dichlorobenzene-d4A	4.37	152	66748	40.00	ppb	0.00
112) Naphthalene-d8A	6.12	136	241238	40.00	ppb	0.00
120) Acenaphthene-d10A	8.84	164	108397	40.00	ppb	0.00
131) Phenanthrene-d10A	11.20	188	189618	40.00	ppb	0.00
146) Chrysene-d12A	15.91	240	172193	40.00	ppb	0.00
154) Perylene-d12A	18.46	264	169194	40.00	ppb	0.00
157) 1,4-Dichlorobenzene-d4b	4.37	152	66748	40.00	ppb	0.00
159) Phenanthrene-d10b	11.20	188	189618	40.00	ppb	0.00
161) Chrysene-d12b	15.91	240	172193	40.00	ppb	0.00
163) Naphthalene-d8b	6.12	136	241238	40.00	ppb	0.00
165) Acenaphthene-d10b	8.84	164	108397	40.00	ppb	0.00
167) Naphthalene-d8c	6.12	136	241238	40.00	ppb	0.00
172) 1,4-Dichlorobenzene-d4a	4.37	152	66748	40.00	ppb	0.00
174) Chrysene-d12c	15.91	240	172193	40.00	ppb	0.00
176) Chrysene-d12d	15.91	240	172193	40.00	ppb	0.00
178) Naphthalene-d8a	6.12	136	241238	40.00	ppb	0.00
180) Naphthalene-d8b	6.12	136	241238	40.00	ppb	0.00
182) Perylene-d12a	18.46	264	169194	40.00	ppb	-0.02

System Monitoring Compounds

5) 2-Fluorophenol	0.00	112	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
8) Phenol-d5	0.00	99	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
25) Nitrobenzene-d5	0.00	82	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
51) 2-Fluorobiphenyl	0.00	172	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
73) 2,4,6-Tribromophenol	0.00	330	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
85) Terphenyl-d14	0.00	244	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	

Target Compounds

						Qvalue
158) Benzaldehyde	3.84	105	118678	87.79	ppb	100
160) Atrazine	10.86	200	77219	83.91	ppb	100
162) Benzidine	13.55	184	175725	87.35	ppb	100
164) Hydroquinone	6.82	110	143371	83.88	ppb	100
166) 1,2,4,5-Tetrachlorobenzene	7.48	216	124355	83.14	ppb	100

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

P88232.D MP3770.M Sat Aug 23 13:52:09 2014

Page 1

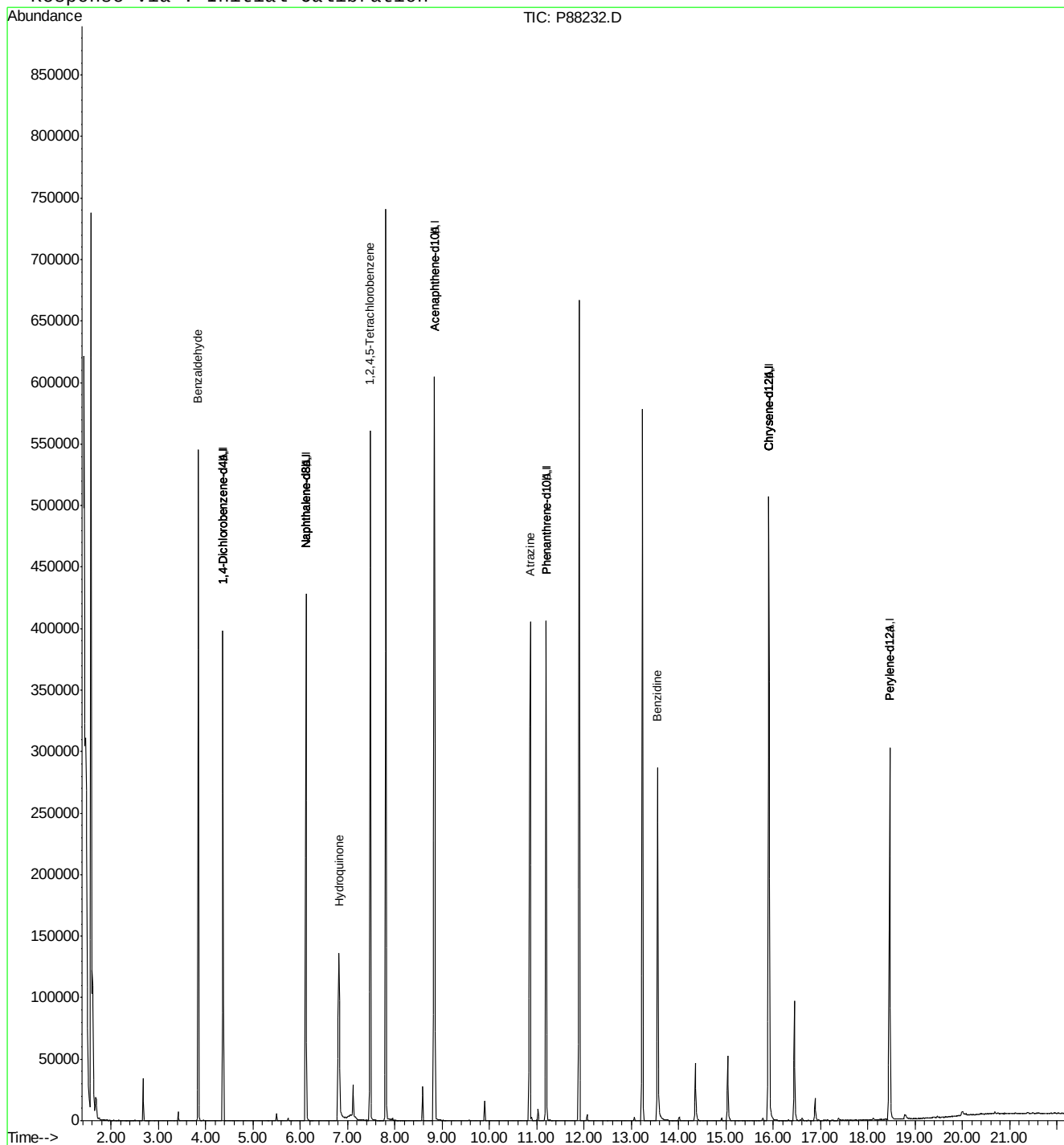
Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP3770\P88232.D
Acq On : 22 Aug 2014 7:06 pm
Sample : ic3770-80
Misc : op76634,ep3770,1000,,,1,1
MS Integration Params: rteint.p
Quant Time: Aug 23 9:43 2014

Vial: 3
Operator: kristis
Inst : MSP
Multiplr: 1.00

Quant Results File: MP3770.RES

Method : C:\MSDCHEM\1\METHODS\MP3770.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Sat Aug 23 10:46:47 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP3770\P88233.D

Vial: 4

Acq On : 22 Aug 2014 7:35 pm

Operator: kristis

Sample : icc3770-50

Inst : MSP

Misc : op76634,ep3770,1000,,,1,1

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Aug 23 09:22:47 2014

Quant Results File: MP3770.RES

Quant Method : C:\MSDCHEM\1\METHODS\MP3770.M (RTE Integrator)

Title : Semi Volatile Extractables by GC/MS

Last Update : Sat Aug 23 09:21:06 2014

Response via : Initial Calibration

DataAcq Meth : MP3770

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.37	152	55821	40.00	ppb	0.00
24) Naphthalene-d8	6.12	136	203694	40.00	ppb	0.00
47) Acenaphthene-d10	8.84	164	96146	40.00	ppb	0.00
69) Phenanthrene-d10	11.19	188	164002	40.00	ppb	0.00
83) Chrysene-d12	15.90	240	152883	40.00	ppb	-0.01
92) Perylene-d12	18.46	264	143812	40.00	ppb	0.00
102) 1,4-Dichlorobenzene-d4A	4.37	152	55821	40.00	ppb	0.00
112) Naphthalene-d8A	6.12	136	203694	40.00	ppb	0.00
120) Acenaphthene-d10A	8.84	164	96146	40.00	ppb	0.00
131) Phenanthrene-d10A	11.19	188	164002	40.00	ppb	0.00
146) Chrysene-d12A	15.90	240	152883	40.00	ppb	-0.01
154) Perylene-d12A	18.46	264	143812	40.00	ppb	0.00
157) 1,4-Dichlorobenzene-d4b	4.37	152	55821	40.00	ppb	0.00
159) Phenanthrene-d10b	11.19	188	164002	40.00	ppb	0.00
161) Chrysene-d12b	15.90	240	152883	40.00	ppb	0.00
163) Naphthalene-d8b	6.12	136	203694	40.00	ppb	0.00
165) Acenaphthene-d10b	8.84	164	96146	40.00	ppb	0.00
167) Naphthalene-d8c	6.12	136	203694	40.00	ppb	0.00
172) 1,4-Dichlorobenzene-d4a	4.37	152	55821	40.00	ppb	0.00
174) Chrysene-d12c	15.90	240	152883	40.00	ppb	-0.01
176) Chrysene-d12d	15.90	240	152883	40.00	ppb	-0.01
178) Naphthalene-d8a	6.12	136	203694	40.00	ppb	0.00
180) Naphthalene-d8b	6.12	136	203694	40.00	ppb	0.00
182) Perylene-d12a	18.46	264	143812	40.00	ppb	-0.02

System Monitoring Compounds

5) 2-Fluorophenol	0.00	112	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
8) Phenol-d5	0.00	99	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
25) Nitrobenzene-d5	0.00	82	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
51) 2-Fluorobiphenyl	0.00	172	0d	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
73) 2,4,6-Tribromophenol	0.00	330	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
85) Terphenyl-d14	0.00	244	0d	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	

Target Compounds

						Qvalue
158) Benzaldehyde	3.84	105	84592	74.83	ppb	100
160) Atrazine	10.85	200	47270	59.39	ppb	98
162) Benzidine	13.55	184	136562	76.45	ppb	100
164) Hydroquinone	6.80	110	76824	53.23	ppb	99
166) 1,2,4,5-Tetrachlorobenzene	7.48	216	77111	58.12	ppb	99

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

P88233.D MP3770.M Sat Aug 23 13:52:15 2014

Page 1

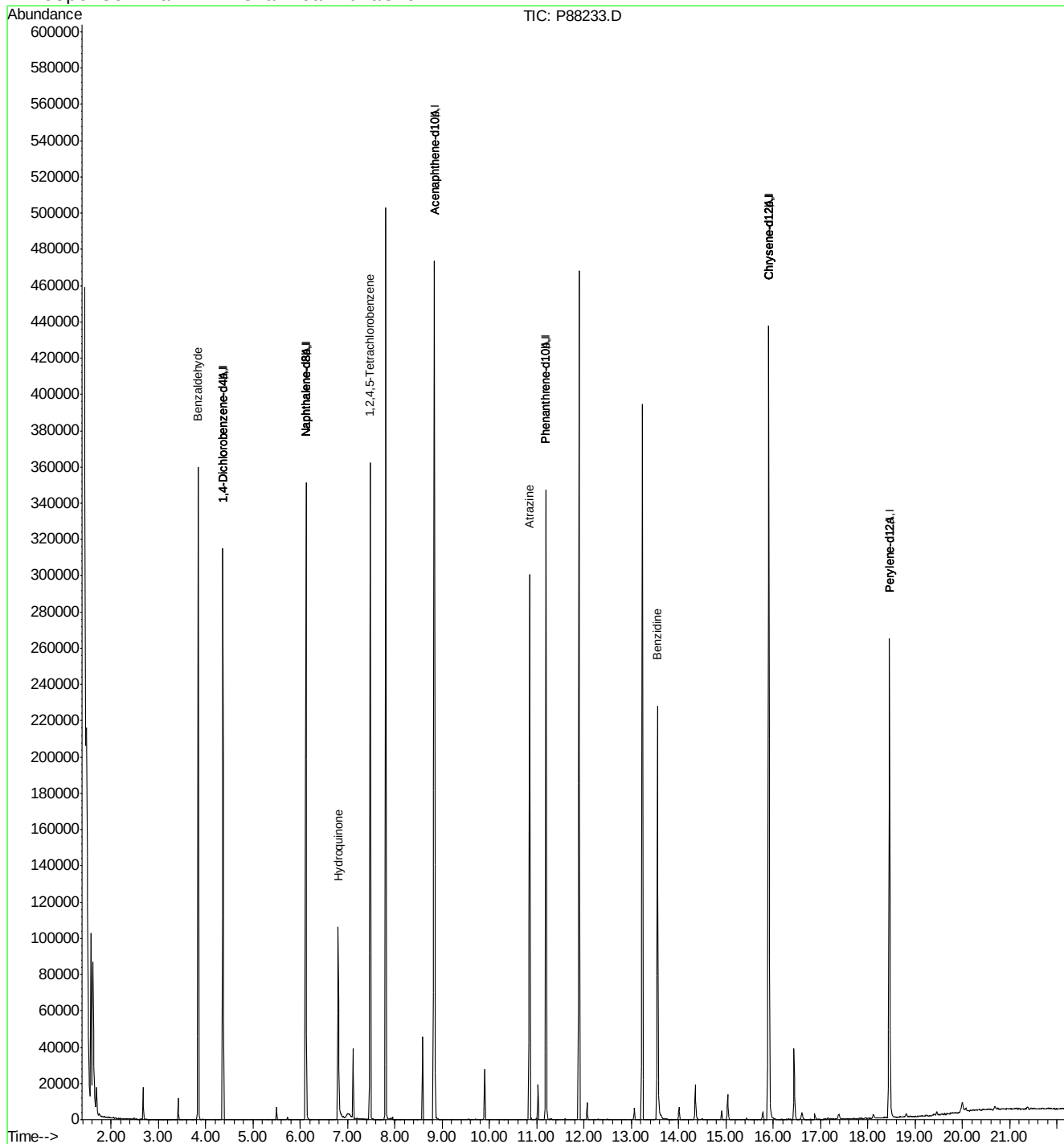
Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP3770\P88233.D
Acq On : 22 Aug 2014 7:35 pm
Sample : icc3770-50
Misc : op76634,ep3770,1000,,1,1
MS Integration Params: rteint.p
Quant Time: Aug 23 9:23 2014

Vial: 4
Operator: kristis
Inst : MSP
Multiplr: 1.00

Quant Results File: MP3770.RES

Method : C:\MSDCHEM\1\METHODS\MP3770.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Sat Aug 23 10:46:47 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP3770\P88234.D Vial: 5
 Acq On : 22 Aug 2014 8:04 pm Operator: kristis
 Sample : ic3770-25 Inst : MSP
 Misc : op76634,ep3770,1000,,,1,1 Multiplr: 1.00
 MS Integration Params: rteint.p
 Quant Time: Aug 23 09:23:30 2014 Quant Results File: MP3770.RES

Quant Method : C:\MSDCHEM\1\METHODS\MP3770.M (RTE Integrator)
 Title : Semi Volatile Extractables by GC/MS
 Last Update : Sat Aug 23 09:21:06 2014
 Response via : Initial Calibration
 DataAcq Meth : MP3770

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.37	152	67535	40.00	ppb	0.00
24) Naphthalene-d8	6.12	136	243316	40.00	ppb	0.00
47) Acenaphthene-d10	8.84	164	125607	40.00	ppb	0.00
69) Phenanthrene-d10	11.19	188	204059	40.00	ppb	0.00
83) Chrysene-d12	15.91	240	191071	40.00	ppb	0.00
92) Perylene-d12	18.46	264	183499	40.00	ppb	0.00
102) 1,4-Dichlorobenzene-d4A	4.37	152	67535	40.00	ppb	0.00
112) Naphthalene-d8A	6.12	136	243316	40.00	ppb	0.00
120) Acenaphthene-d10A	8.84	164	125607	40.00	ppb	0.00
131) Phenanthrene-d10A	11.19	188	204059	40.00	ppb	0.00
146) Chrysene-d12A	15.91	240	191071	40.00	ppb	0.00
154) Perylene-d12A	18.46	264	183499	40.00	ppb	0.00
157) 1,4-Dichlorobenzene-d4b	4.37	152	67535	40.00	ppb	0.00
159) Phenanthrene-d10b	11.19	188	204059	40.00	ppb	0.00
161) Chrysene-d12b	15.91	240	191071	40.00	ppb	0.00
163) Naphthalene-d8b	6.12	136	243316	40.00	ppb	0.00
165) Acenaphthene-d10b	8.84	164	125607	40.00	ppb	0.00
167) Naphthalene-d8c	6.12	136	243316	40.00	ppb	0.00
172) 1,4-Dichlorobenzene-d4a	4.37	152	67535	40.00	ppb	0.00
174) Chrysene-d12c	15.91	240	191071	40.00	ppb	0.00
176) Chrysene-d12d	15.91	240	191071	40.00	ppb	0.00
178) Naphthalene-d8a	6.12	136	243316	40.00	ppb	0.00
180) Naphthalene-d8b	6.12	136	243316	40.00	ppb	0.00
182) Perylene-d12a	18.46	264	183499	40.00	ppb	-0.02

System Monitoring Compounds

5) 2-Fluorophenol	0.00	112	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
8) Phenol-d5	0.00	99	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
25) Nitrobenzene-d5	0.00	82	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
51) 2-Fluorobiphenyl	0.00	172	0d	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
73) 2,4,6-Tribromophenol	0.00	330	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
85) Terphenyl-d14	0.00	244	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	

Target Compounds

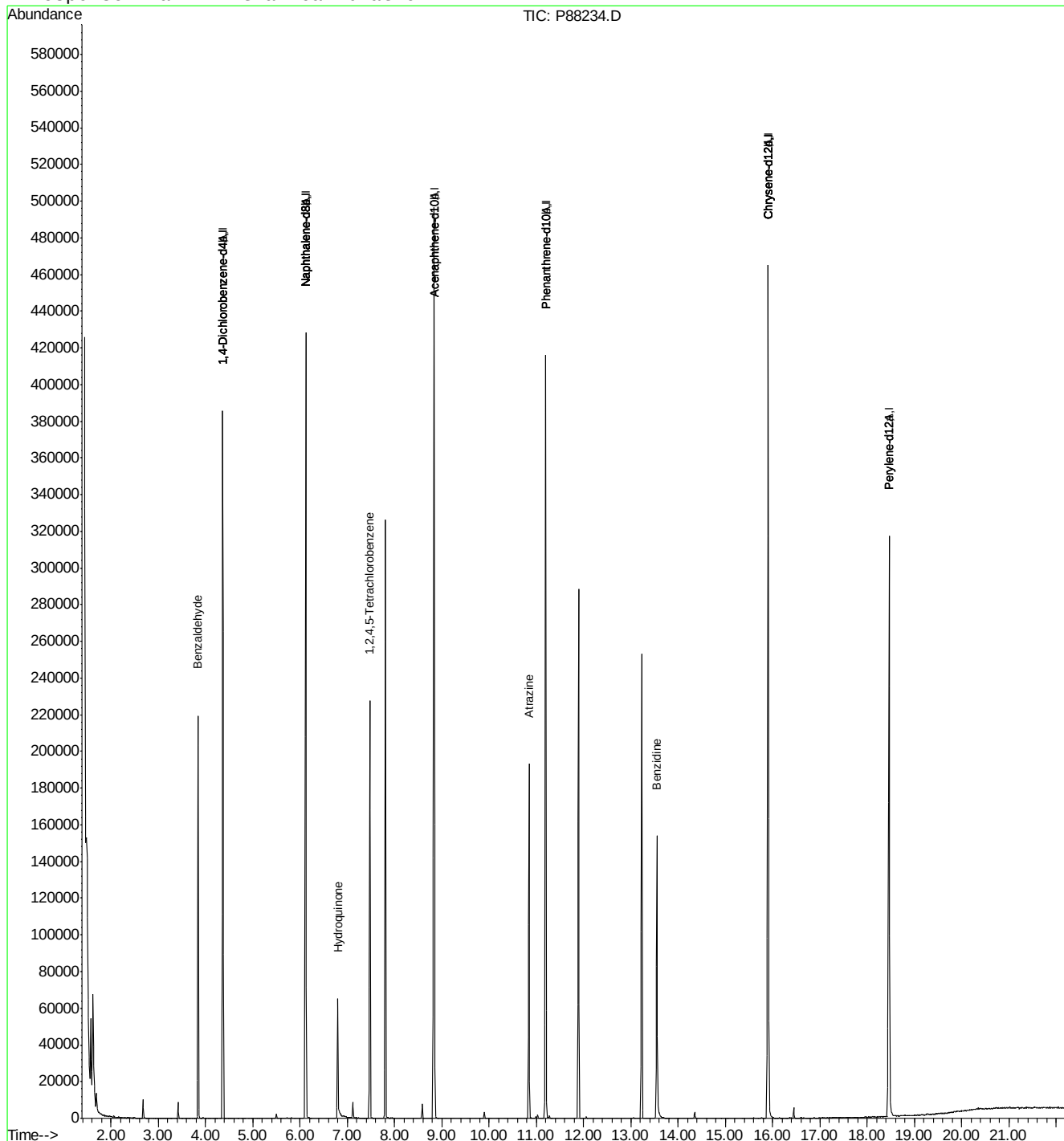
						Qvalue
158) Benzaldehyde	3.84	105	49798	36.41	ppb	99
160) Atrazine	10.85	200	26164	26.42	ppb	96
162) Benzidine	13.55	184	89291	40.00	ppb	100
164) Hydroquinone	6.80	110	39159	22.71	ppb	97
166) 1,2,4,5-Tetrachlorobenzene	7.48	216	45524	26.27	ppb	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 P88234.D MP3770.M Sat Aug 23 13:52:46 2014

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP3770\P88234.D Vial: 5
Acq On : 22 Aug 2014 8:04 pm Operator: kristis
Sample : ic3770-25 Inst : MSP
Misc : op76634,ep3770,1000,,1,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 23 13:52 2014 Quant Results File: MP3770.RES

Method : C:\MSDCHEM\1\METHODS\MP3770.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Sat Aug 23 10:46:47 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP3770\P88235.D Vial: 6
 Acq On : 22 Aug 2014 8:33 pm Operator: kristis
 Sample : ic3770-10 Inst : MSP
 Misc : op76634,ep3770,1000,,,1,1 Multiplr: 1.00
 MS Integration Params: rteint.p
 Quant Time: Aug 23 09:24:04 2014 Quant Results File: MP3770.RES

Quant Method : C:\MSDCHEM\1\METHODS\MP3770.M (RTE Integrator)
 Title : Semi Volatile Extractables by GC/MS
 Last Update : Sat Aug 23 09:21:06 2014
 Response via : Initial Calibration
 DataAcq Meth : MP3770

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.37	152	60119	40.00	ppb	0.00
24) Naphthalene-d8	6.12	136	217414	40.00	ppb	0.00
47) Acenaphthene-d10	8.84	164	113629	40.00	ppb	0.00
69) Phenanthrene-d10	11.19	188	180366	40.00	ppb	0.00
83) Chrysene-d12	15.90	240	173531	40.00	ppb	-0.01
92) Perylene-d12	18.46	264	156131	40.00	ppb	0.00
102) 1,4-Dichlorobenzene-d4A	4.37	152	60119	40.00	ppb	0.00
112) Naphthalene-d8A	6.12	136	217414	40.00	ppb	0.00
120) Acenaphthene-d10A	8.84	164	113629	40.00	ppb	0.00
131) Phenanthrene-d10A	11.19	188	180366	40.00	ppb	0.00
146) Chrysene-d12A	15.90	240	173531	40.00	ppb	-0.01
154) Perylene-d12A	18.46	264	156131	40.00	ppb	0.00
157) 1,4-Dichlorobenzene-d4b	4.37	152	60119	40.00	ppb	0.00
159) Phenanthrene-d10b	11.19	188	180366	40.00	ppb	0.00
161) Chrysene-d12b	15.90	240	173531	40.00	ppb	0.00
163) Naphthalene-d8b	6.12	136	217414	40.00	ppb	0.00
165) Acenaphthene-d10b	8.84	164	113629	40.00	ppb	0.00
167) Naphthalene-d8c	6.12	136	217414	40.00	ppb	0.00
172) 1,4-Dichlorobenzene-d4a	4.37	152	60119	40.00	ppb	0.00
174) Chrysene-d12c	15.90	240	173531	40.00	ppb	-0.01
176) Chrysene-d12d	15.90	240	173531	40.00	ppb	-0.01
178) Naphthalene-d8a	6.12	136	217414	40.00	ppb	0.00
180) Naphthalene-d8b	6.12	136	217414	40.00	ppb	0.00
182) Perylene-d12a	18.46	264	156131	40.00	ppb	-0.02

System Monitoring Compounds

5) 2-Fluorophenol	0.00	112	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
8) Phenol-d5	0.00	99	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
25) Nitrobenzene-d5	0.00	82	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
51) 2-Fluorobiphenyl	0.00	172	0d	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
73) 2,4,6-Tribromophenol	0.00	330	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
85) Terphenyl-d14	0.00	244	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	

Target Compounds

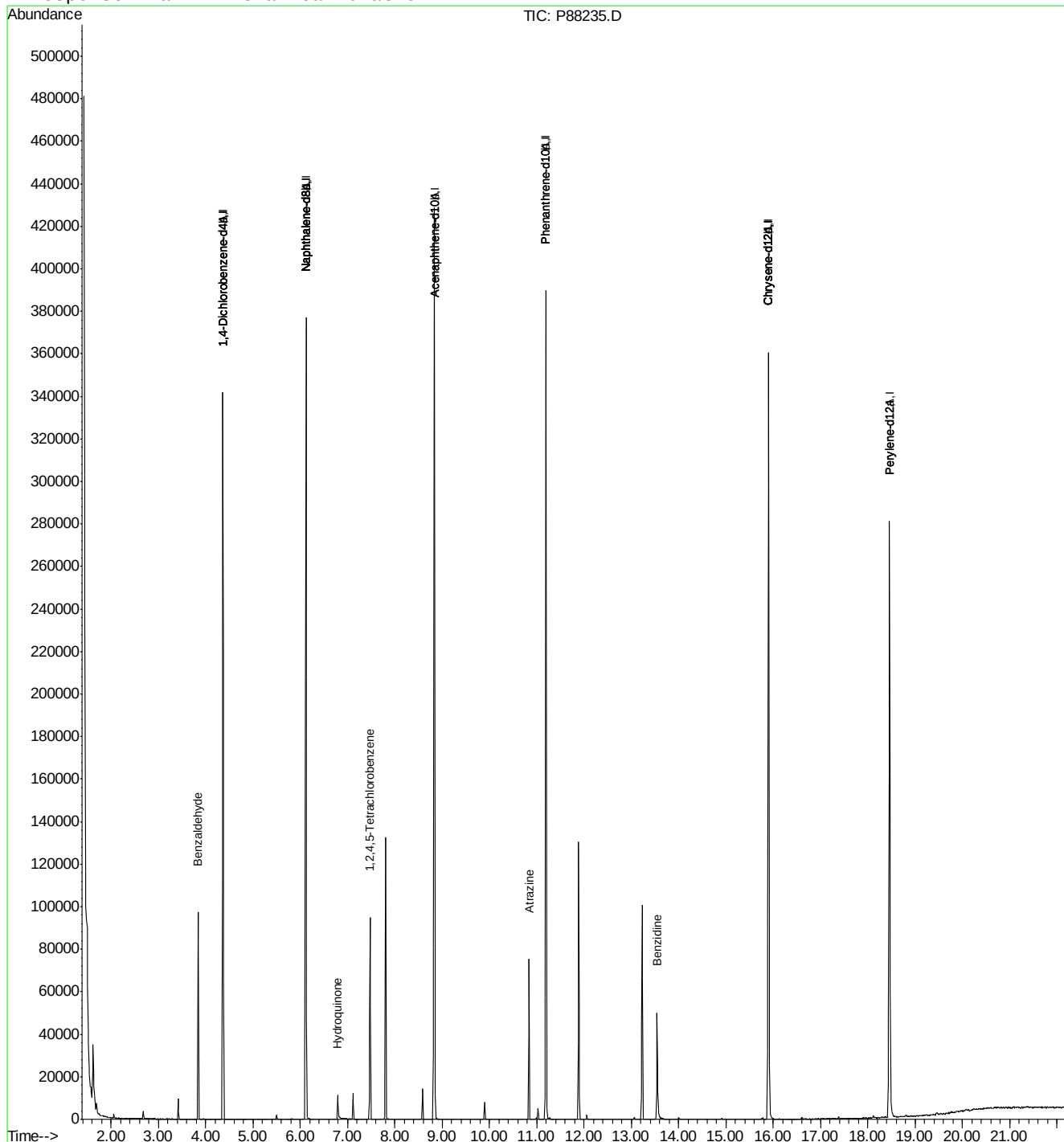
						Qvalue
158) Benzaldehyde	3.84	105	21261	17.46	ppb	98
160) Atrazine	10.84	200	9982	11.40	ppb	93
162) Benzidine	13.54	184	33053	16.30	ppb	99
164) Hydroquinone	6.79	110	9937m	6.45	ppb	
166) 1,2,4,5-Tetrachlorobenzene	7.48	216	19349	12.34	ppb	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 P88235.D MP3770.M Sat Aug 23 13:53:12 2014

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP3770\P88235.D Vial: 6
Acq On : 22 Aug 2014 8:33 pm Operator: kristis
Sample : ic3770-10 Inst : MSP
Misc : op76634,ep3770,1000,,1,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 23 9:34 2014 Quant Results File: MP3770.RES

Method : C:\MSDCHEM\1\METHODS\MP3770.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Sat Aug 23 10:46:47 2014
Response via : Initial Calibration



Manual Integration Approval Summary

Sample Number:

EP3770-IC3770

Method:

SW846 8270D

Lab FileID:

P88235.D

Analyst approved:

08/23/14 14:09 Kristi Schollenberger

Injection Time:

08/22/14 20:33

Supervisor approved:

08/25/14 10:39 Nina Pandya

Parameter	CAS	Sig#	R.T. (min.)	Reason
Hydroquinone	123-31-9		6.79	Split peak

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EP3770\P88235.D

Vial: 6

Acq On : 22 Aug 2014 8:33 pm

Operator: kristis

Sample : ic3770-10

Inst : MSP

Misc : op76634,ep3770,1000,,,1,1

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Aug 23 9:24 2014

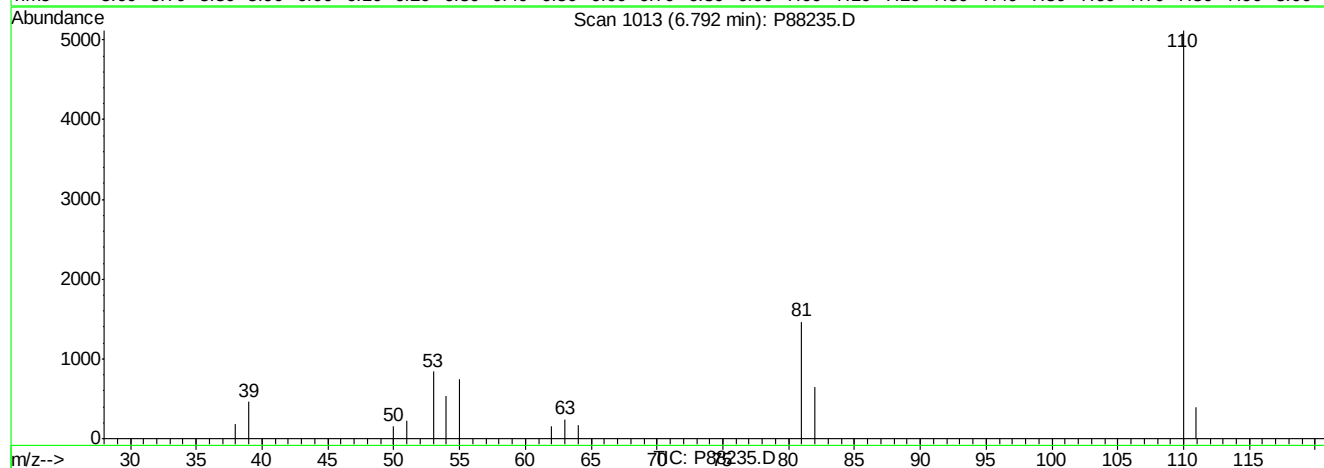
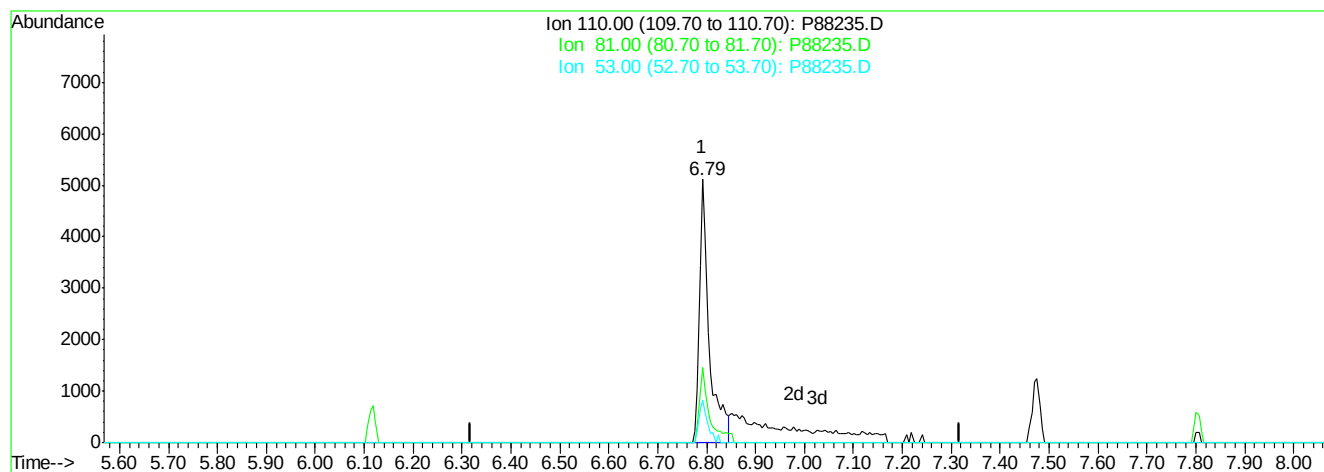
Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MP3770.M (RTE Integrator)

Title : Semi Volatile Extractables by GC/MS

Last Update : Sat Aug 23 09:32:07 2014

Response via : Multiple Level Calibration



(164) Hydroquinone

6.79min 4.66ppb

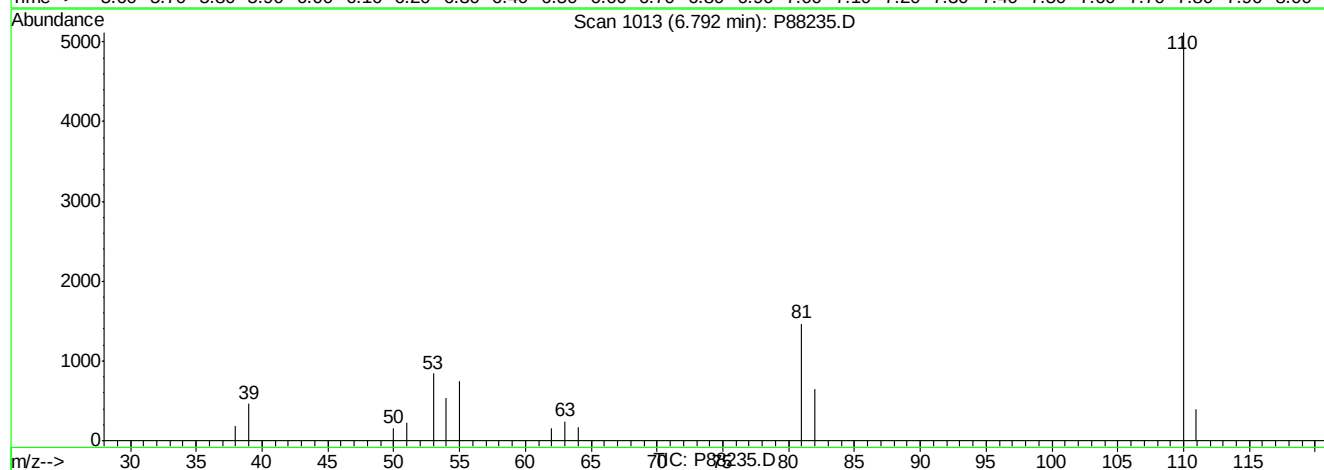
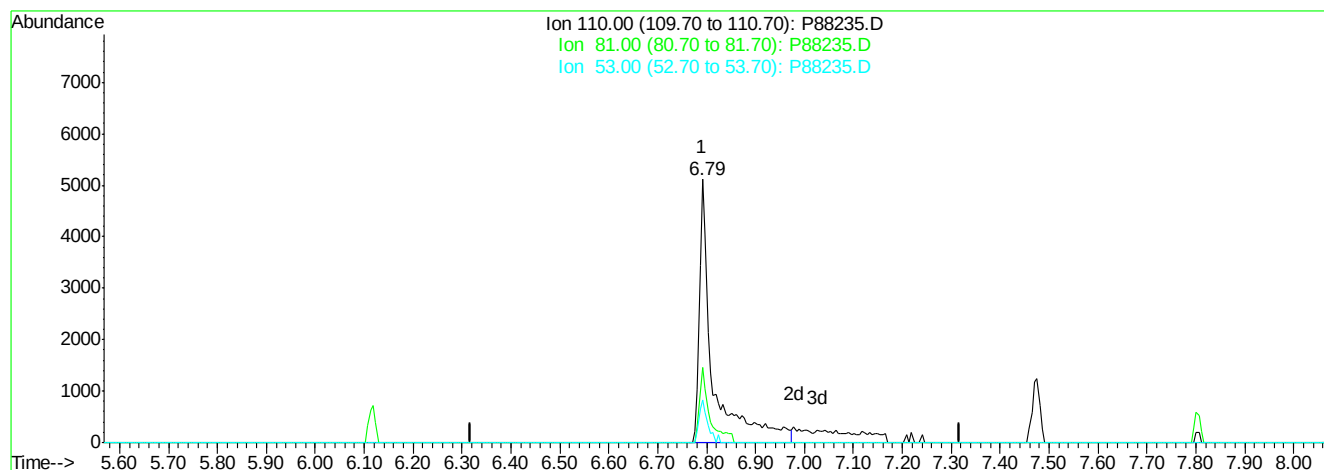
response 7183

Ion	Exp%	Act%
110.00	100	100
81.00	27.40	29.11
53.00	16.10	14.07
0.00	0.00	0.00

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EP3770\P88235.D Vial: 6
Acq On : 22 Aug 2014 8:33 pm Operator: kristis
Sample : ic3770-10 Inst : MSP
Misc : op76634,ep3770,1000,,,1,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 23 9:34 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MP3770.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Sat Aug 23 10:46:47 2014
Response via : Multiple Level Calibration



(164) Hydroquinone

6.79min 6.45ppb m

response 9937

Ion	Exp%	Act%
110.00	100	100
81.00	27.40	21.04
53.00	16.10	10.17
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP3770\P88236.D Vial: 7
 Acq On : 22 Aug 2014 9:03 pm Operator: kristis
 Sample : ic3770-5 Inst : MSP
 Misc : op76634,ep3770,1000,,,1,1 Multiplr: 1.00
 MS Integration Params: rteint.p
 Quant Time: Aug 23 09:24:46 2014 Quant Results File: MP3770.RES

Quant Method : C:\MSDCHEM\1\METHODS\MP3770.M (RTE Integrator)
 Title : Semi Volatile Extractables by GC/MS
 Last Update : Sat Aug 23 09:21:06 2014
 Response via : Initial Calibration
 DataAcq Meth : MP3770

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.37	152	51595	40.00	ppb	0.00
24) Naphthalene-d8	6.12	136	184700	40.00	ppb	0.00
47) Acenaphthene-d10	8.84	164	98734	40.00	ppb	0.00
69) Phenanthrene-d10	11.19	188	155040	40.00	ppb	0.00
83) Chrysene-d12	15.90	240	146002	40.00	ppb	-0.01
92) Perylene-d12	18.46	264	127995	40.00	ppb	0.00
102) 1,4-Dichlorobenzene-d4A	4.37	152	51595	40.00	ppb	0.00
112) Naphthalene-d8A	6.12	136	184700	40.00	ppb	0.00
120) Acenaphthene-d10A	8.84	164	98734	40.00	ppb	0.00
131) Phenanthrene-d10A	11.19	188	155040	40.00	ppb	0.00
146) Chrysene-d12A	15.90	240	146002	40.00	ppb	-0.01
154) Perylene-d12A	18.46	264	127995	40.00	ppb	0.00
157) 1,4-Dichlorobenzene-d4b	4.37	152	51595	40.00	ppb	0.00
159) Phenanthrene-d10b	11.19	188	155040	40.00	ppb	0.00
161) Chrysene-d12b	15.90	240	146002	40.00	ppb	0.00
163) Naphthalene-d8b	6.12	136	184700	40.00	ppb	0.00
165) Acenaphthene-d10b	8.84	164	98734	40.00	ppb	0.00
167) Naphthalene-d8c	6.12	136	184700	40.00	ppb	0.00
172) 1,4-Dichlorobenzene-d4a	4.37	152	51595	40.00	ppb	0.00
174) Chrysene-d12c	15.90	240	146002	40.00	ppb	-0.01
176) Chrysene-d12d	15.90	240	146002	40.00	ppb	-0.01
178) Naphthalene-d8a	6.12	136	184700	40.00	ppb	0.00
180) Naphthalene-d8b	6.12	136	184700	40.00	ppb	0.00
182) Perylene-d12a	18.46	264	127995	40.00	ppb	-0.02

System Monitoring Compounds

5) 2-Fluorophenol	0.00	112	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
8) Phenol-d5	0.00	99	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
25) Nitrobenzene-d5	0.00	82	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
51) 2-Fluorobiphenyl	0.00	172	0d	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
73) 2,4,6-Tribromophenol	0.00	330	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
85) Terphenyl-d14	0.00	244	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	

Target Compounds

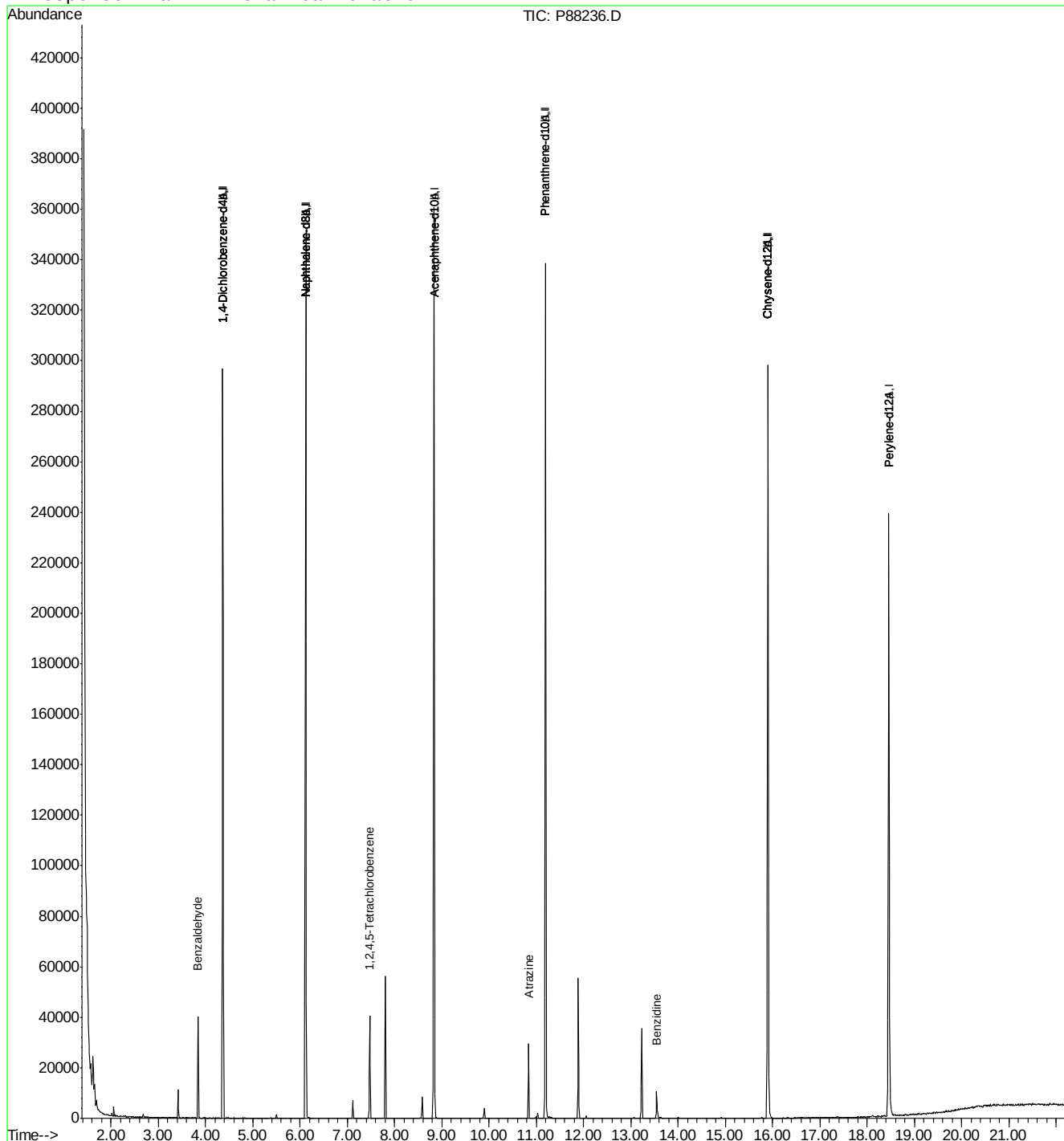
						Qvalue
158) Benzaldehyde	3.84	105	9353	8.95	ppb	98
160) Atrazine	10.84	200	3822	5.08	ppb	96
162) Benzidine	13.54	184	10097	5.92	ppb	93
166) 1,2,4,5-Tetrachlorobenzene	7.48	216	8573	6.29	ppb	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 P88236.D MP3770.M Sat Aug 23 13:53:28 2014

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP3770\P88236.D Vial: 7
Acq On : 22 Aug 2014 9:03 pm Operator: kristis
Sample : ic3770-5 Inst : MSP
Misc : op76634,ep3770,1000,,,1,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 23 9:25 2014 Quant Results File: MP3770.RES

Method : C:\MSDCHEM\1\METHODS\MP3770.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Sat Aug 23 10:46:47 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP3770\P88237.D Vial: 8
 Acq On : 22 Aug 2014 9:32 pm Operator: kristis
 Sample : ic3770-2 Inst : MSP
 Misc : op76634,ep3770,1000,,,1,1 Multiplr: 1.00
 MS Integration Params: rteint.p
 Quant Time: Aug 23 09:25:32 2014 Quant Results File: MP3770.RES

Quant Method : C:\MSDCHEM\1\METHODS\MP3770.M (RTE Integrator)
 Title : Semi Volatile Extractables by GC/MS
 Last Update : Sat Aug 23 09:21:06 2014
 Response via : Initial Calibration
 DataAcq Meth : MP3770

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.37	152	85576	40.00	ppb	0.00
24) Naphthalene-d8	6.12	136	301747	40.00	ppb	0.00
47) Acenaphthene-d10	8.84	164	165847	40.00	ppb	0.00
69) Phenanthrene-d10	11.20	188	257972	40.00	ppb	0.00
83) Chrysene-d12	15.91	240	252077	40.00	ppb	0.00
92) Perylene-d12	18.47	264	226824	40.00	ppb	0.01
102) 1,4-Dichlorobenzene-d4A	4.37	152	85576	40.00	ppb	0.00
112) Naphthalene-d8A	6.12	136	301747	40.00	ppb	0.00
120) Acenaphthene-d10A	8.84	164	165847	40.00	ppb	0.00
131) Phenanthrene-d10A	11.20	188	257972	40.00	ppb	0.00
146) Chrysene-d12A	15.91	240	252077	40.00	ppb	0.00
154) Perylene-d12A	18.47	264	226824	40.00	ppb	0.01
157) 1,4-Dichlorobenzene-d4b	4.37	152	85576	40.00	ppb	0.00
159) Phenanthrene-d10b	11.20	188	257972	40.00	ppb	0.00
161) Chrysene-d12b	15.91	240	252077	40.00	ppb	0.01
163) Naphthalene-d8b	6.12	136	301747	40.00	ppb	0.00
165) Acenaphthene-d10b	8.84	164	165847	40.00	ppb	0.00
167) Naphthalene-d8c	6.12	136	301747	40.00	ppb	0.00
172) 1,4-Dichlorobenzene-d4a	4.37	152	85576	40.00	ppb	0.00
174) Chrysene-d12c	15.91	240	252077	40.00	ppb	0.00
176) Chrysene-d12d	15.91	240	252077	40.00	ppb	0.00
178) Naphthalene-d8a	6.12	136	301747	40.00	ppb	0.00
180) Naphthalene-d8b	6.12	136	301747	40.00	ppb	0.00
182) Perylene-d12a	18.47	264	226824	40.00	ppb	-0.01

System Monitoring Compounds

5) 2-Fluorophenol	0.00	112	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
8) Phenol-d5	0.00	99	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
25) Nitrobenzene-d5	0.00	82	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
51) 2-Fluorobiphenyl	0.00	172	0d	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
73) 2,4,6-Tribromophenol	0.00	330	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
85) Terphenyl-d14	0.00	244	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	

Target Compounds

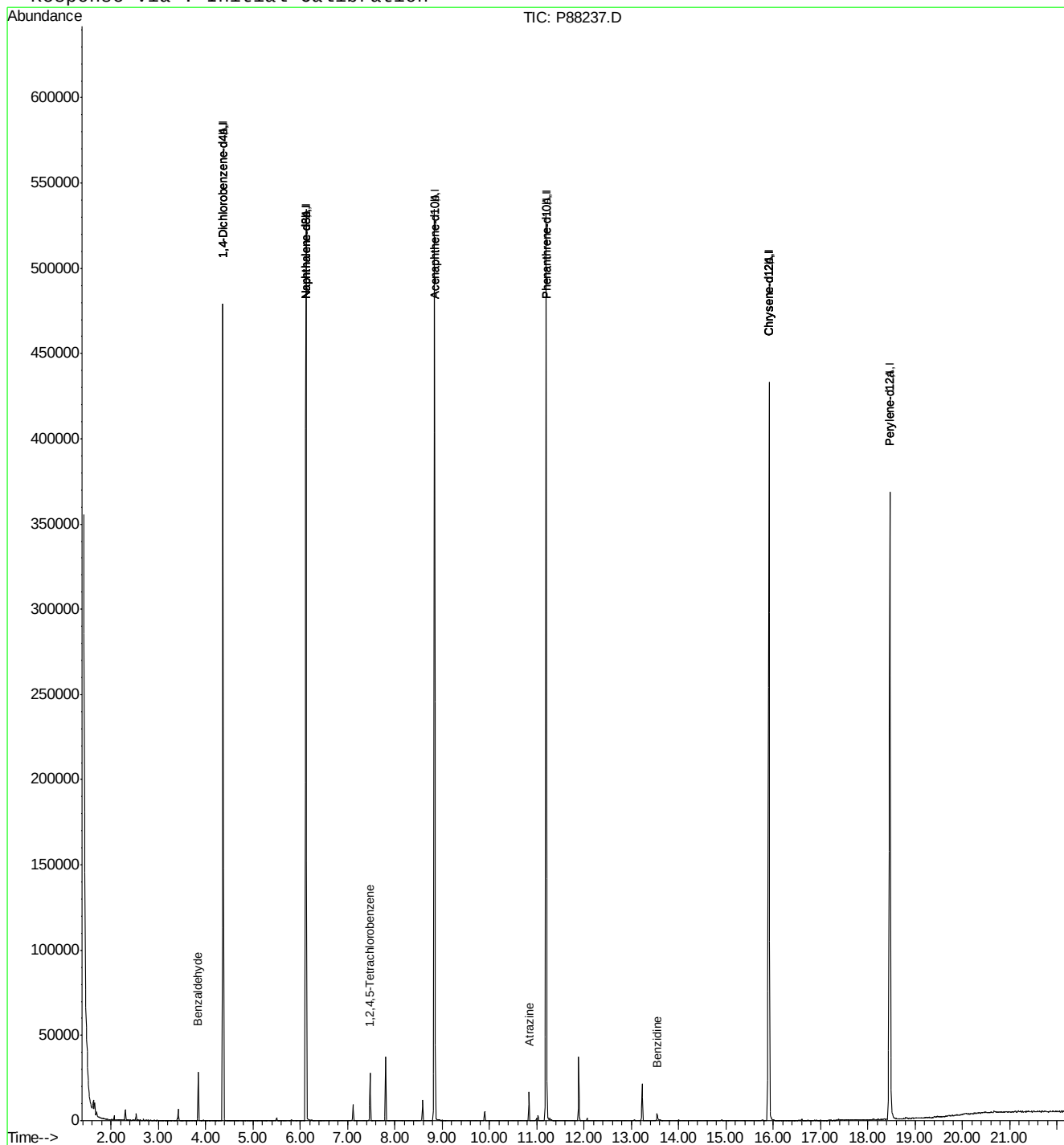
						Qvalue
158) Benzaldehyde	3.84	105	6304	3.64	ppb	98
160) Atrazine	10.84	200	2233	1.78	ppb	92
162) Benzidine	13.54	184	5694	1.93	ppb	90
166) 1,2,4,5-Tetrachlorobenzene	7.48	216	5716	2.50	ppb	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 P88237.D MP3770.M Sat Aug 23 13:53:33 2014

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP3770\P88237.D Vial: 8
Acq On : 22 Aug 2014 9:32 pm Operator: kristis
Sample : ic3770-2 Inst : MSP
Misc : op76634,ep3770,1000,,,1,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 23 9:25 2014 Quant Results File: MP3770.RES

Method : C:\MSDCHEM\1\METHODS\MP3770.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Sat Aug 23 10:46:47 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP3770\P88238.D Vial: 9
 Acq On : 22 Aug 2014 10:01 pm Operator: kristis
 Sample : ic3770-1 Inst : MSP
 Misc : op76634,ep3770,1000,,,1,1 Multiplr: 1.00
 MS Integration Params: rteint.p
 Quant Time: Aug 23 09:26:09 2014 Quant Results File: MP3770.RES

Quant Method : C:\MSDCHEM\1\METHODS\MP3770.M (RTE Integrator)
 Title : Semi Volatile Extractables by GC/MS
 Last Update : Sat Aug 23 09:21:06 2014
 Response via : Initial Calibration
 DataAcq Meth : MP3770

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.37	152	66700	40.00	ppb	0.00
24) Naphthalene-d8	6.12	136	238019	40.00	ppb	0.00
47) Acenaphthene-d10	8.84	164	128522	40.00	ppb	0.00
69) Phenanthrene-d10	11.19	188	199414	40.00	ppb	0.00
83) Chrysene-d12	15.91	240	191575	40.00	ppb	0.00
92) Perylene-d12	18.46	264	169617	40.00	ppb	0.00
102) 1,4-Dichlorobenzene-d4A	4.37	152	66700	40.00	ppb	0.00
112) Naphthalene-d8A	6.12	136	238019	40.00	ppb	0.00
120) Acenaphthene-d10A	8.84	164	128522	40.00	ppb	0.00
131) Phenanthrene-d10A	11.19	188	199414	40.00	ppb	0.00
146) Chrysene-d12A	15.91	240	191575	40.00	ppb	0.00
154) Perylene-d12A	18.46	264	169617	40.00	ppb	0.00
157) 1,4-Dichlorobenzene-d4b	4.37	152	66700	40.00	ppb	0.00
159) Phenanthrene-d10b	11.19	188	199414	40.00	ppb	0.00
161) Chrysene-d12b	15.91	240	191575	40.00	ppb	0.00
163) Naphthalene-d8b	6.12	136	238019	40.00	ppb	0.00
165) Acenaphthene-d10b	8.84	164	128522	40.00	ppb	0.00
167) Naphthalene-d8c	6.12	136	238019	40.00	ppb	0.00
172) 1,4-Dichlorobenzene-d4a	4.37	152	66700	40.00	ppb	0.00
174) Chrysene-d12c	15.91	240	191575	40.00	ppb	0.00
176) Chrysene-d12d	15.91	240	191575	40.00	ppb	0.00
178) Naphthalene-d8a	6.12	136	238019	40.00	ppb	0.00
180) Naphthalene-d8b	6.12	136	238019	40.00	ppb	0.00
182) Perylene-d12a	18.46	264	169617	40.00	ppb	-0.02

System Monitoring Compounds

5) 2-Fluorophenol	0.00	112	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
8) Phenol-d5	0.00	99	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
25) Nitrobenzene-d5	0.00	82	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
51) 2-Fluorobiphenyl	0.00	172	0d	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
73) 2,4,6-Tribromophenol	0.00	330	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
85) Terphenyl-d14	0.00	244	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	

Target Compounds

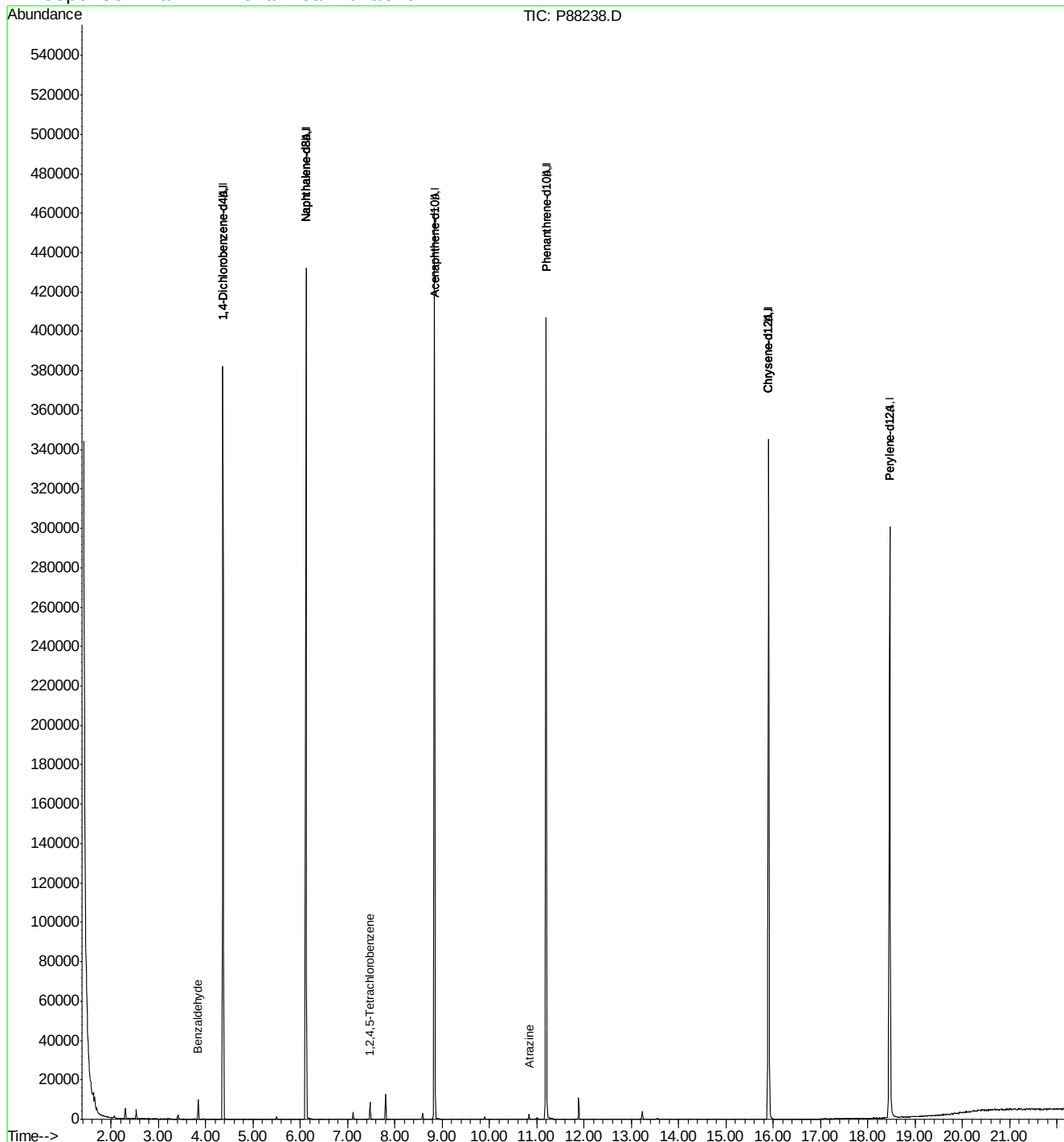
						Qvalue
158) Benzaldehyde	3.84	105	2190	1.62	ppb	96
160) Atrazine	10.84	200	623	0.64	ppb	85
166) 1,2,4,5-Tetrachlorobenzene	7.48	216	2187	1.23	ppb	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 P88238.D MP3770.M Sat Aug 23 13:53:39 2014

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP3770\P88238.D Vial: 9
Acq On : 22 Aug 2014 10:01 pm Operator: kristis
Sample : ic3770-1 Inst : MSP
Misc : op76634,ep3770,1000,,,1,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 23 9:26 2014 Quant Results File: MP3770.RES

Method : C:\MSDCHEM\1\METHODS\MP3770.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Sat Aug 23 10:46:47 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP3770\P88240.D Vial: 10
 Acq On : 22 Aug 2014 10:38 pm Operator: kristis
 Sample : ic3770-100 Inst : MSP
 Misc : op76634,ep3771,1000,,,1,1 Multiplr: 1.00
 MS Integration Params: rteint.p
 Quant Time: Aug 22 23:00:23 2014 Quant Results File: MP3770.RES

Quant Method : C:\MSDCHEM\1\METHODS\MP3770.M (RTE Integrator)
 Title : Semi Volatile Extractables by GC/MS
 Last Update : Fri Aug 22 14:34:10 2014
 Response via : Initial Calibration
 DataAcq Meth : MP3770

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.37	152	57202	40.00	ppb	0.00
24) Naphthalene-d8	6.12	136	212585	40.00	ppb	0.00
47) Acenaphthene-d10	8.85	164	113693	40.00	ppb	0.00
69) Phenanthrene-d10	11.21	188	157884	40.00	ppb	0.00
83) Chrysene-d12	15.93	240	154365	40.00	ppb	0.00
92) Perylene-d12	18.48	264	165489	40.00	ppb	0.00
102) 1,4-Dichlorobenzene-d4A	4.37	152	57202	40.00	ppb	0.00
112) Naphthalene-d8A	6.12	136	212585	40.00	ppb	0.00
120) Acenaphthene-d10A	8.85	164	113693	40.00	ppb	0.00
131) Phenanthrene-d10A	11.21	188	157884	40.00	ppb	0.00
146) Chrysene-d12A	15.93	240	154365	40.00	ppb	0.00
154) Perylene-d12A	18.48	264	165489	40.00	ppb	0.00
157) 1,4-Dichlorobenzene-d4b	4.37	152	57202	40.00	ppb	0.00
159) Phenanthrene-d10b	11.21	188	157884	40.00	ppb	0.00
161) Chrysene-d12b	15.93	240	154365	40.00	ppb	0.00
163) Naphthalene-d8b	6.12	136	212585	40.00	ppb	0.00
165) Acenaphthene-d10b	8.85	164	113693	40.00	ppb	0.00
167) Naphthalene-d8c	6.12	136	212585	40.00	ppb	0.00
172) 1,4-Dichlorobenzene-d4a	4.37	152	57202	40.00	ppb	0.00
174) Chrysene-d12c	15.93	240	154365	40.00	ppb	0.00
176) Chrysene-d12d	15.93	240	154365	40.00	ppb	0.00
178) Naphthalene-d8a	6.12	136	212585	40.00	ppb	0.00
180) Naphthalene-d8b	6.12	136	212585	40.00	ppb	0.00
182) Perylene-d12a	18.48	264	165489	40.00	ppb	0.00

System Monitoring Compounds

5) 2-Fluorophenol	2.95	112	189367	108.21	ppb	0.00
Spiked Amount	50.000		Recovery	=	216.42%	
8) Phenol-d5	3.93	99	237853	107.72	ppb	0.00
Spiked Amount	50.000		Recovery	=	215.44%	
25) Nitrobenzene-d5	5.11	82	184790	97.79	ppb	0.00
Spiked Amount	50.000		Recovery	=	195.58%	
51) 2-Fluorobiphenyl	7.82	172	314822	103.79	ppb	0.00
Spiked Amount	50.000		Recovery	=	207.58%	
73) 2,4,6-Tribromophenol	10.11	330	43941	94.91	ppb	0.00
Spiked Amount	50.000		Recovery	=	189.82%	
85) Terphenyl-d14	14.02	244	323683	101.90	ppb	0.00
Spiked Amount	50.000		Recovery	=	203.80%	

Target Compounds

						Qvalue
2) 1,4-Dioxane	1.80	88	82755	98.80	ppb	100
3) Pyridine	2.00	79	212702	105.57	ppb	99
4) N-Nitrosodimethylamine	1.97	42	77639	103.76	ppb	97
6) Indene	4.70	116	251063	108.03	ppb	98
7) Cumene	3.46	105	401288	118.60	ppb	93
9) Phenol	3.95	94	251394	111.65	ppb	98
10) Aniline	3.97	93	241630	104.26	ppb	99
11) bis(2-Chloroethyl)ether	4.06	93	179341	104.81	ppb	98
12) 2-Chlorophenol	4.12	128	175444	107.98	ppb	96
13) Decane	4.19	43	119682	105.44	ppb	98

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

P88240.D MP3770.M Sat Aug 23 13:56:13 2014

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP3770\P88240.D Vial: 10
 Acq On : 22 Aug 2014 10:38 pm Operator: kristis
 Sample : ic3770-100 Inst : MSP
 Misc : op76634,ep3771,1000,,,1,1 Multiplr: 1.00
 MS Integration Params: rteint.p
 Quant Time: Aug 22 23:00:23 2014 Quant Results File: MP3770.RES

Quant Method : C:\MSDCHEM\1\METHODS\MP3770.M (RTE Integrator)
 Title : Semi Volatile Extractables by GC/MS
 Last Update : Fri Aug 22 14:34:10 2014
 Response via : Initial Calibration
 DataAcq Meth : MP3770

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
14) 1,3-Dichlorobenzene	4.31	146	201646	108.54	ppb	97
15) 1,4-Dichlorobenzene	4.39	146	192445	109.83	ppb	97
16) Benzyl alcohol	4.56	108	122491	103.17	ppb	95
17) 1,2-Dichlorobenzene	4.59	146	171893	108.05	ppb	97
18) Acetophenone	4.91	105	243918	108.55	ppb	98
19) 2-Methylphenol	4.71	108	134819	107.68	ppb	99
20) 2,2'-oxybis(1-Chloropropan	4.74	121	53708	97.85	ppb	87
21) 3&4-Methylphenol	4.93	108	158689	105.85	ppb	97
22) n-Nitroso-di-n-propylamine	4.93	70	78971	105.35	ppb	98
23) Hexachloroethane	5.03	201	65707	102.01	ppb	99
26) Nitrobenzene	5.14	77	188465	101.01	ppb	95
27) Quinoline	6.70	129	375091	100.07	ppb	99
28) Isophorone	5.49	82	345268	101.50	ppb	97
29) 2-Nitrophenol	5.58	139	104345	97.35	ppb	94
30) 2,4-Dimethylphenol	5.68	107	173994	99.53	ppb	98
31) Benzoic acid	5.93	105	149368m	93.93	ppb	
32) bis(2-Chloroethoxy)methane	5.81	93	210816	100.07	ppb	96
33) 2,4-Dichlorophenol	5.94	162	147719	101.45	ppb	96
34) 2,6-Dichlorophenol	6.28	162	137155	98.31	ppb	99
35) 1,3,5-Trichlorobenzene	5.60	180	142317	102.61	ppb	99
36) 1,2,4-Trichlorobenzene	6.05	180	152275	100.76	ppb	98
37) 1,2,3-Trichlorobenzene	6.39	180	125455	102.14	ppb	99
38) Naphthalene	6.16	128	478285	112.66	ppb	93
39) 4-Chloroaniline	6.27	127	189718	101.44	ppb	96
40) 2,3-Dichloroaniline	7.66	161	170079	102.57	ppb	98
41) Caprolactam	6.85	55	77776m	93.48	ppb	
42) Hexachlorobutadiene	6.38	225	71209	97.69	ppb	99
43) 4-Chloro-3-methylphenol	7.07	107	172825	101.77	ppb	# 29
44) 2-Methylnaphthalene	7.22	141	292097	107.05	ppb	97
45) 1-Methylnaphthalene	7.37	142	321022	105.96	ppb	99
46) Dimethylnaphthalene	8.21	156	270280	103.96	ppb	99
48) Hexachlorocyclopentadiene	7.49	237	160022	204.95	ppb	99
49) 2,4,6-Trichlorophenol	7.69	196	97927	99.51	ppb	99
50) 2,4,5-Trichlorophenol	7.75	196	103190	98.45	ppb	98
52) 2-Chloronaphthalene	7.98	162	268453	103.49	ppb	96
53) Biphenyl	7.97	154	319786	109.57	ppb	96
54) 2-Nitroaniline	8.17	65	100663	97.69	ppb	98
55) Dimethylphthalate	8.50	163	362887	103.10	ppb	98
56) Acenaphthylene	8.62	152	488862	110.46	ppb	94
57) 2,6-Dinitrotoluene	8.58	165	84236	97.24	ppb	99
58) 3-Nitroaniline	8.83	138	113297	97.15	ppb	98
59) Acenaphthene	8.91	153	305830	106.59	ppb	98
60) 2,4-Dinitrophenol	9.00	184	104240	191.06	ppb	100
61) 4-Nitrophenol	9.15	109	58597	95.57	ppb	99
62) Dibenzofuran	9.18	168	396118	109.71	ppb	94
63) 2,4-Dinitrotoluene	9.21	165	102565	98.66	ppb	98
64) 2,3,4,6-Tetrachlorophenol	9.40	232	87394	98.10	ppb	99
65) Diethylphthalate	9.64	149	353551	105.92	ppb	96
66) Fluorene	9.73	166	343202	107.01	ppb	99

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

P88240.D MP3770.M Sat Aug 23 13:56:13 2014

Page 2

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP3770\P88240.D Vial: 10
 Acq On : 22 Aug 2014 10:38 pm Operator: kristis
 Sample : ic3770-100 Inst : MSP
 Misc : op76634,ep3771,1000,,,1,1 Multiplr: 1.00
 MS Integration Params: rteint.p
 Quant Time: Aug 22 23:00:23 2014 Quant Results File: MP3770.RES

Quant Method : C:\MSDCHEM\1\METHODS\MP3770.M (RTE Integrator)
 Title : Semi Volatile Extractables by GC/MS
 Last Update : Fri Aug 22 14:34:10 2014
 Response via : Initial Calibration
 DataAcq Meth : MP3770

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
67) 4-Chlorophenyl-phenylether	9.76	204	142035	100.21	ppb	97
68) 4-Nitroaniline	9.83	138	106910	94.65	ppb	99
70) 4,6-Dinitro-2-methylphenol	9.86	198	67229	94.17	ppb	97
71) n-Nitrosodiphenylamine	9.96	169	241296	100.52	ppb	99
72) 1,2-Diphenylhydrazine	10.01	77	338101	103.15	ppb	94
74) 4-Bromophenyl-phenylether	10.54	248	90771	100.06	ppb	98
75) Hexachlorobenzene	10.61	284	98832	99.64	ppb	97
76) Pentachlorophenol	10.94	266	129838	201.90	ppb	98
77) Phenanthrene	11.25	178	453534	106.49	ppb	95
78) Anthracene	11.34	178	466466	106.55	ppb	94
79) Carbazole	11.63	167	462737	107.05	ppb	95
80) Di-n-butylphthalate	12.32	149	599063	111.71	ppb	95
81) Fluoranthene	13.27	202	540929	109.75	ppb	96
82) Octadecane	11.20	57	155125	101.76	ppb	99
84) Pyrene	13.66	202	552048	108.03	ppb	94
86) Butylbenzylphthalate	15.01	149	289669	102.81	ppb	99
87) Butyl stearate	15.24	56	127721	100.62	ppb	98
88) Benzo[a]anthracene	15.91	228	505722	105.21	ppb	97
89) 3,3'-Dichlorobenzidine	15.93	252	158724	97.34	ppb	96
90) Chrysene	15.99	228	446992	101.77	ppb	95
91) bis(2-Ethylhexyl)phthalate	16.18	149	375080	102.89	ppb	95
93) Di-n-octylphthalate	17.40	149	681112	115.55	ppb	95
94) Benzo[b]fluoranthene	17.88	252	566181	109.82	ppb	95
95) Benzo[k]fluoranthene	17.92	252	423247	104.76	ppb	95
96) Benzo[a]pyrene	18.39	252	483314	107.95	ppb	97
97) Indeno[1,2,3-cd]pyrene	20.12	276	507827	105.65	ppb	97
98) Dibenz(a,h)acridine	19.80	279	420874	108.14	ppb	96
99) Dibenz[a,h]anthracene	20.17	278	471863	105.35	ppb	94
100) 7,12-Dimethylbenz(a)anthra	17.88	256	216152	102.22	ppb	99
101) Benzo[g,h,i]perylene	20.50	276	500662	106.16	ppb	95

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 P88240.D MP3770.M Sat Aug 23 13:56:13 2014

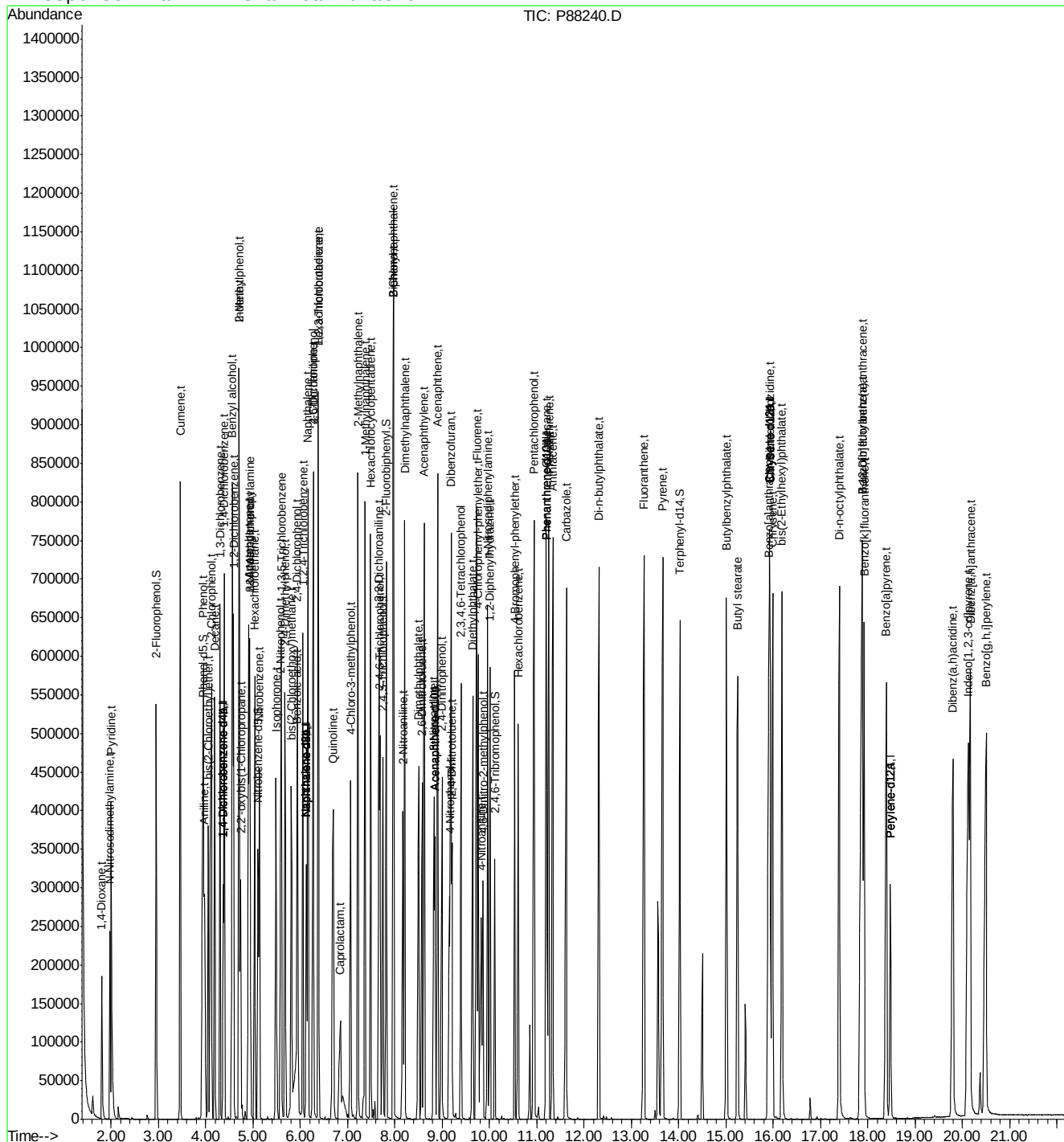
Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP3770\P88240.D
Acq On : 22 Aug 2014 10:38 pm
Sample : ic3770-100
Misc : op76634,ep3771,1000,,1,1
MS Integration Params: rteint.p
Quant Time: Aug 23 7:51 2014 Qu

Vial: 10
Operator: kristis
Inst : MSP
Multiplr: 1.00

Quant Results File: MP3770.RES

Method : C:\MSDCHEM\1\METHODS\MP3770.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Sat Aug 23 10:46:47 2014
Response via : Initial Calibration



Manual Integration Approval Summary

Sample Number: EP3771-IC3771

Method: SW846 8270D

Lab FileID: P88240.D

Analyst approved: 08/23/14 14:22 Kristi Schollenberger

Injection Time: 08/22/14 22:38

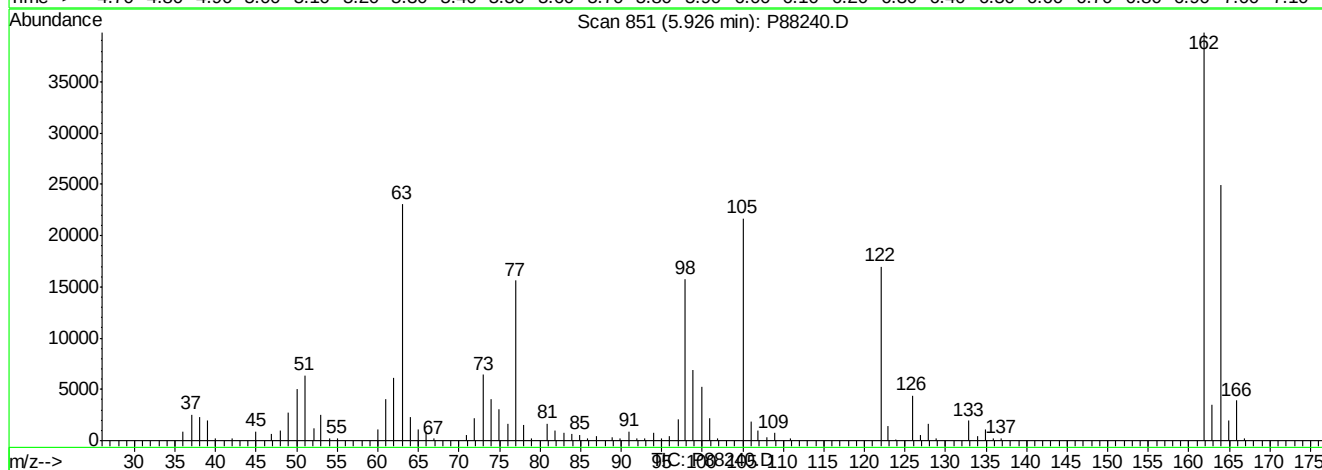
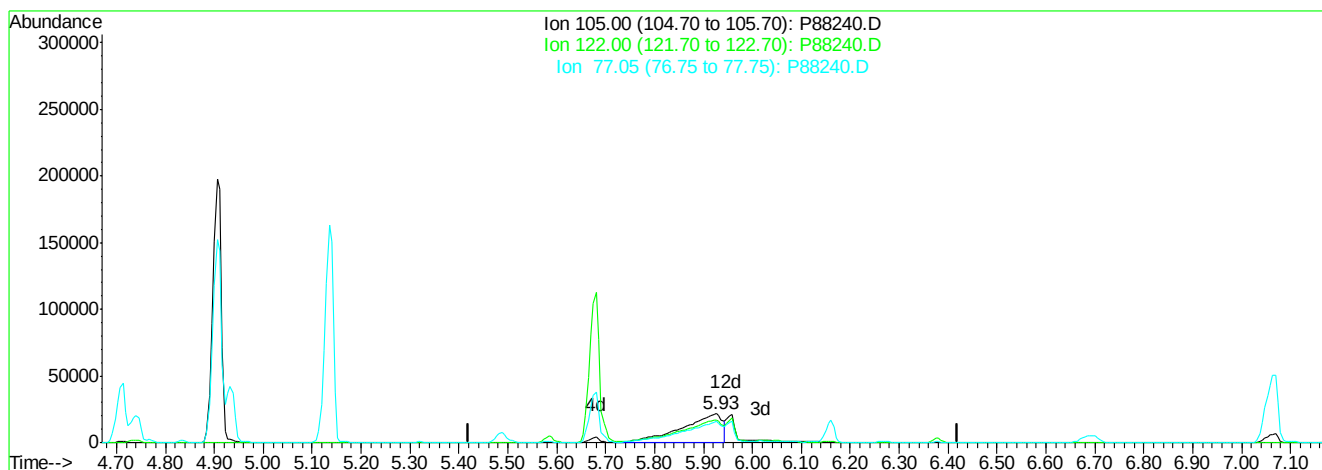
Supervisor approved: 08/25/14 11:00 Nina Pandya

Parameter	CAS	Sig#	R.T. (min.)	Reason
Benzoic acid	65-85-0		5.93	Split peak
Caprolactam	105-60-2		6.85	Split peak

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EP3770\P88240.D Vial: 10
Acq On : 22 Aug 2014 10:38 pm Operator: kristis
Sample : ic3770-100 Inst : MSP
Misc : op76634,ep3771,1000,,,1,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 22 23:00 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MP3770.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Aug 22 14:34:10 2014
Response via : Multiple Level Calibration



(31) Benzoic acid (t)

5.93min 77.21ppb

response 122793

Ion	Exp%	Act%
105.00	100	100
122.00	82.30	75.30
77.05	71.60	69.79
0.00	0.00	0.00

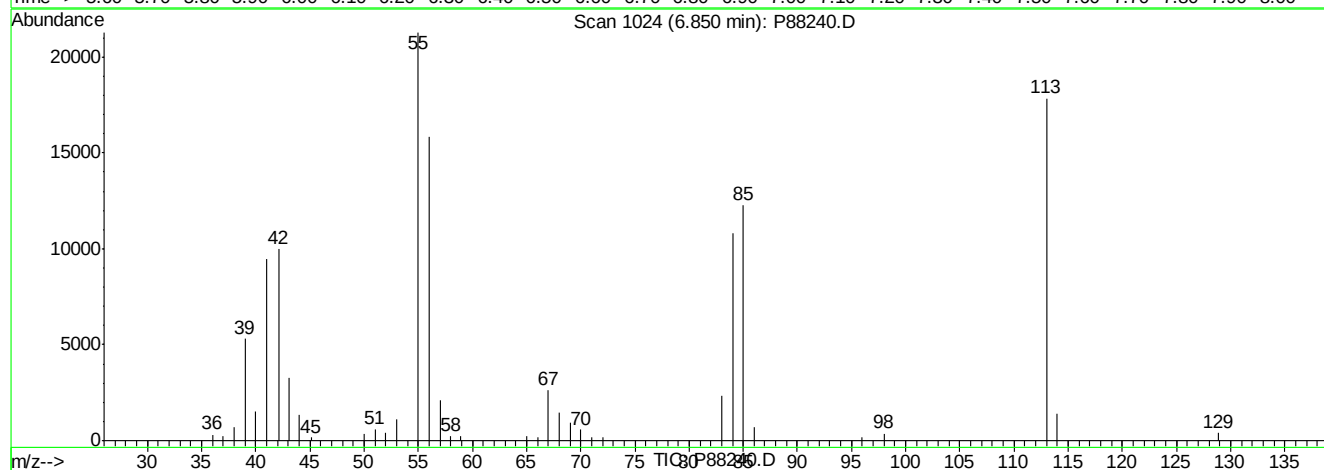
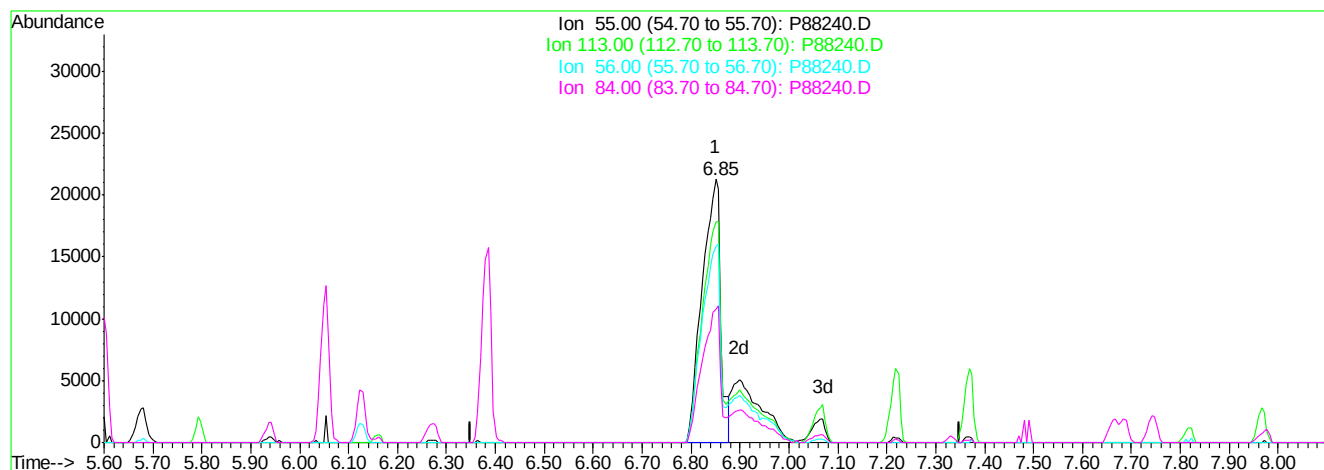
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EP3770\P88240.D
Acq On : 22 Aug 2014 10:38 pm
Sample : ic3770-100
Misc : op76634,ep3771,1000,,,1,1
MS Integration Params: rteint.p
Quant Time: Aug 23 7:49 2014

Vial: 10
Operator: kristis
Inst : MSP
Multiplr: 1.00

Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MP3770.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Aug 22 14:34:10 2014
Response via : Multiple Level Calibration



(41) Caprolactam (t)

6.85min 67.85ppb

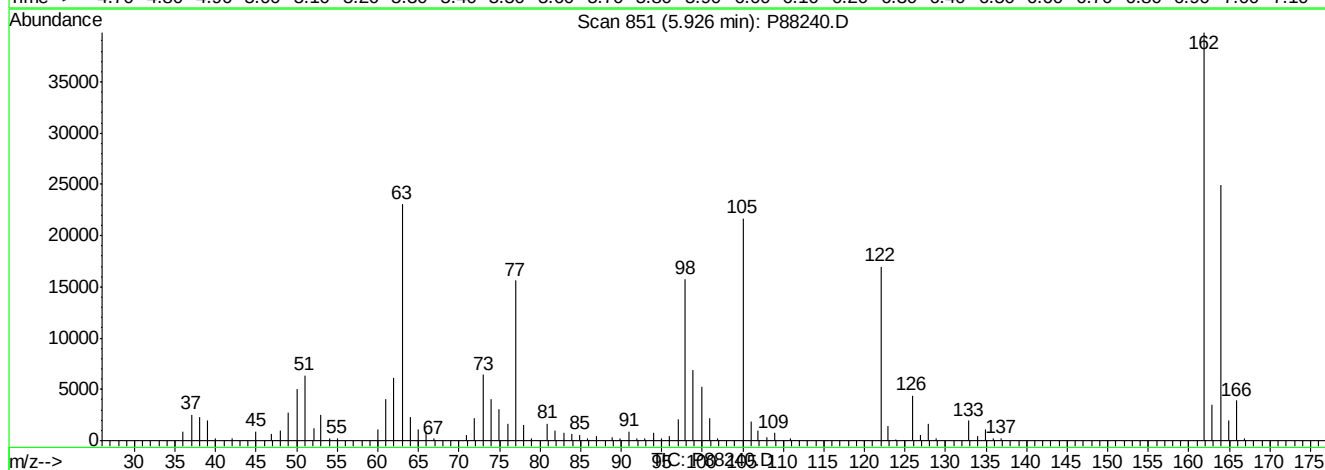
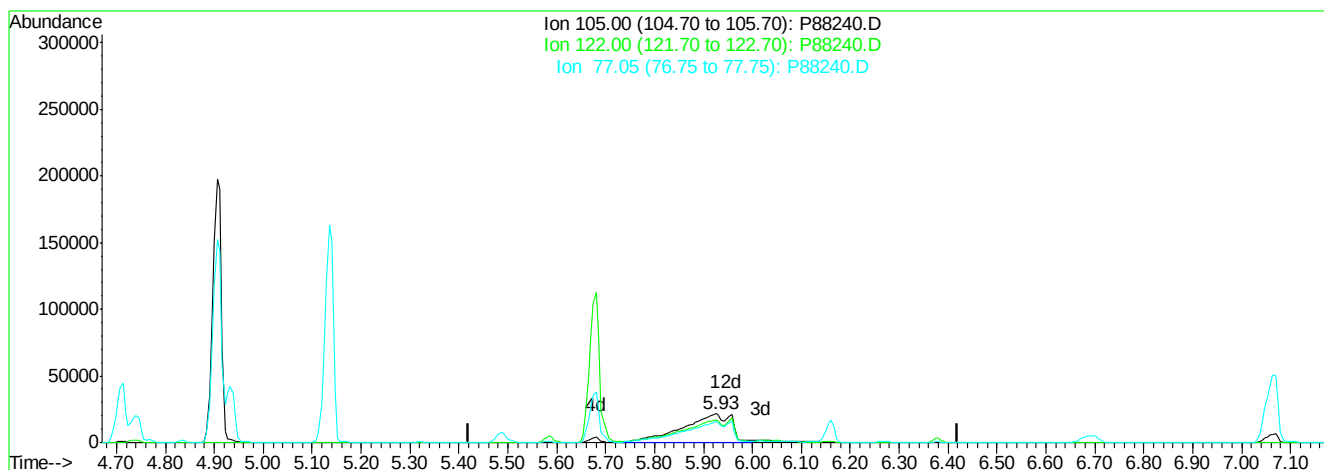
response 56452

Ion	Exp%	Act%
55.00	100	100
113.00	88.20	83.43
56.00	78.00	73.90
84.00	53.20	50.36

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EP3770\P88240.D Vial: 10
Acq On : 22 Aug 2014 10:38 pm Operator: kristis
Sample : ic3770-100 Inst : MSP
Misc : op76634,ep3771,1000,,,1,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 23 7:51 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MP3770.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Sat Aug 23 10:46:47 2014
Response via : Multiple Level Calibration



(31) Benzoic acid (t)

5.93min 93.93ppb m

response 149368

Ion	Exp%	Act%
105.00	100	100
122.00	82.30	78.26
77.05	71.60	72.07
0.00	0.00	0.00

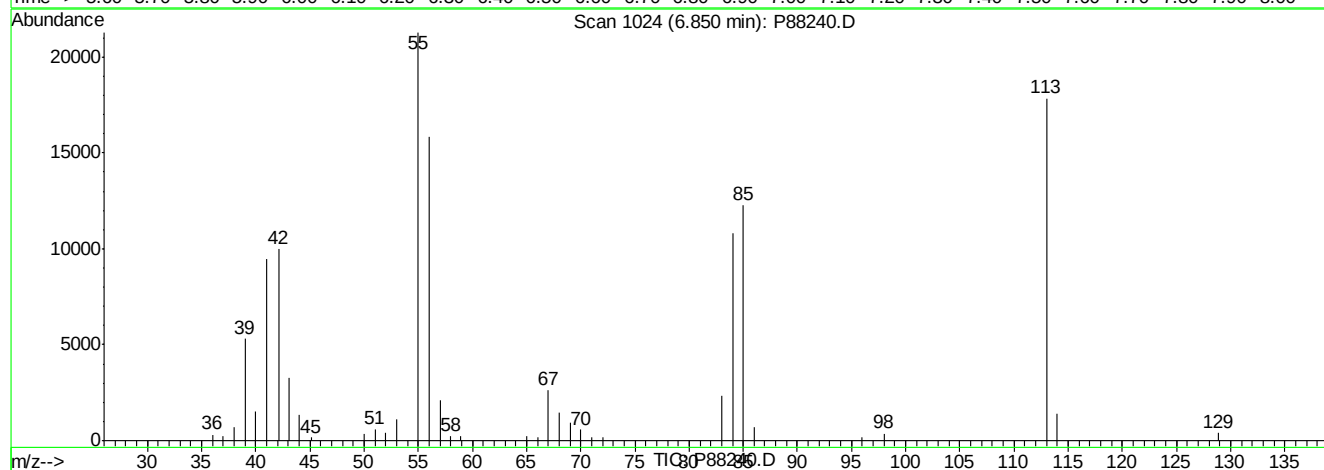
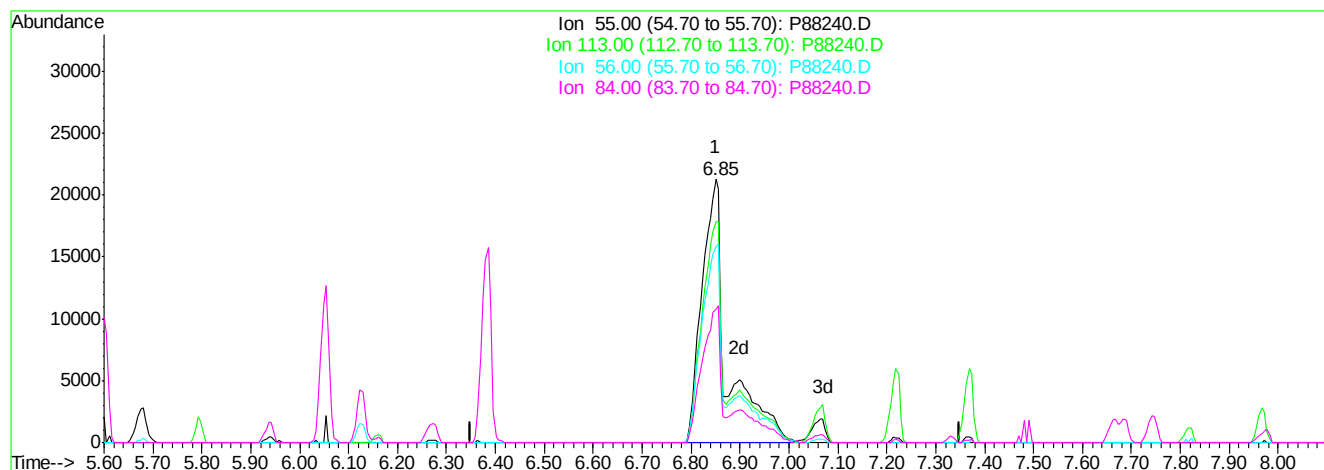
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EP3770\P88240.D
Acq On : 22 Aug 2014 10:38 pm
Sample : ic3770-100
Misc : op76634,ep3771,1000,,,1,1
MS Integration Params: rteint.p
Quant Time: Aug 23 7:51 2014

Vial: 10
Operator: kristis
Inst : MSP
Multiplr: 1.00

Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MP3770.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Sat Aug 23 10:46:47 2014
Response via : Multiple Level Calibration



(41) Caprolactam (t)

6.85min 93.48ppb m

response 77776

Ion	Exp%	Act%
55.00	100	100
113.00	88.20	83.87
56.00	78.00	74.59
84.00	53.20	50.75

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP3770\P88241.D
 Acq On : 22 Aug 2014 11:07 pm
 Sample : ic3770-80
 Misc : op76634,ep3771,1000,,,1,1
 MS Integration Params: rteint.p
 Quant Time: Aug 22 23:29:25 2014

Vial: 11
 Operator: kristis
 Inst : MSP
 Multiplr: 1.00

Quant Results File: MP3770.RES

Quant Method : C:\MSDCHEM\1\METHODS\MP3770.M (RTE Integrator)
 Title : Semi Volatile Extractables by GC/MS
 Last Update : Fri Aug 22 14:34:10 2014
 Response via : Initial Calibration
 DataAcq Meth : MP3770

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.37	152	56454	40.00	ppb	0.00
24) Naphthalene-d8	6.12	136	208403	40.00	ppb	0.00
47) Acenaphthene-d10	8.84	164	111490	40.00	ppb	0.00
69) Phenanthrene-d10	11.20	188	155768	40.00	ppb	0.00
83) Chrysene-d12	15.92	240	150105	40.00	ppb	-0.01
92) Perylene-d12	18.47	264	158880	40.00	ppb	0.00
102) 1,4-Dichlorobenzene-d4A	4.37	152	56454	40.00	ppb	0.00
112) Naphthalene-d8A	6.12	136	208403	40.00	ppb	0.00
120) Acenaphthene-d10A	8.84	164	111490	40.00	ppb	0.00
131) Phenanthrene-d10A	11.20	188	155768	40.00	ppb	0.00
146) Chrysene-d12A	15.92	240	150105	40.00	ppb	-0.01
154) Perylene-d12A	18.47	264	158880	40.00	ppb	0.00
157) 1,4-Dichlorobenzene-d4b	4.37	152	56454	40.00	ppb	0.00
159) Phenanthrene-d10b	11.20	188	155768	40.00	ppb	0.00
161) Chrysene-d12b	15.92	240	150105	40.00	ppb	-0.01
163) Naphthalene-d8b	6.12	136	208403	40.00	ppb	0.00
165) Acenaphthene-d10b	8.84	164	111490	40.00	ppb	0.00
167) Naphthalene-d8c	6.12	136	208403	40.00	ppb	0.00
172) 1,4-Dichlorobenzene-d4a	4.37	152	56454	40.00	ppb	0.00
174) Chrysene-d12c	15.92	240	150105	40.00	ppb	-0.01
176) Chrysene-d12d	15.92	240	150105	40.00	ppb	-0.01
178) Naphthalene-d8a	6.12	136	208403	40.00	ppb	0.00
180) Naphthalene-d8b	6.12	136	208403	40.00	ppb	0.00
182) Perylene-d12a	18.47	264	158880	40.00	ppb	0.00

System Monitoring Compounds

5) 2-Fluorophenol	2.95	112	160221	92.77	ppb	0.00
Spiked Amount	50.000		Recovery	=	185.54%	
8) Phenol-d5	3.93	99	197571	90.67	ppb	0.00
Spiked Amount	50.000		Recovery	=	181.34%	
25) Nitrobenzene-d5	5.10	82	153476	82.85	ppb	0.00
Spiked Amount	50.000		Recovery	=	165.70%	
51) 2-Fluorobiphenyl	7.82	172	265950	89.41	ppb	0.00
Spiked Amount	50.000		Recovery	=	178.82%	
73) 2,4,6-Tribromophenol	10.11	330	35803	78.38	ppb	0.00
Spiked Amount	50.000		Recovery	=	156.76%	
85) Terphenyl-d14	14.02	244	264852	85.75	ppb	0.00
Spiked Amount	50.000		Recovery	=	171.50%	

Target Compounds

						Qvalue
2) 1,4-Dioxane	1.81	88	69245	83.77	ppb	100
3) Pyridine	2.00	79	180263	90.66	ppb	98
4) N-Nitrosodimethylamine	1.97	42	64324	87.10	ppb	98
6) Indene	4.70	116	213808	93.22	ppb	98
7) Cumene	3.46	105	343896	102.99	ppb	92
9) Phenol	3.95	94	213756	96.19	ppb	92
10) Aniline	3.97	93	205552	89.87	ppb	86
11) bis(2-Chloroethyl)ether	4.05	93	148991	88.22	ppb	98
12) 2-Chlorophenol	4.12	128	150529	93.87	ppb	94
13) Decane	4.19	43	102491	91.49	ppb	97

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

P88241.D MP3770.M Sat Aug 23 13:56:34 2014

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP3770\P88241.D

Vial: 11

Acq On : 22 Aug 2014 11:07 pm

Operator: kristis

Sample : ic3770-80

Inst : MSP

Misc : op76634,ep3771,1000,,,1,1

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Aug 22 23:29:25 2014

Quant Results File: MP3770.RES

Quant Method : C:\MSDCHEM\1\METHODS\MP3770.M (RTE Integrator)

Title : Semi Volatile Extractables by GC/MS

Last Update : Fri Aug 22 14:34:10 2014

Response via : Initial Calibration

DataAcq Meth : MP3770

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
14) 1,3-Dichlorobenzene	4.30	146	169806	92.61	ppb	96
15) 1,4-Dichlorobenzene	4.39	146	163991	94.83	ppb	97
16) Benzyl alcohol	4.56	108	106138	90.58	ppb	100
17) 1,2-Dichlorobenzene	4.59	146	146698	93.43	ppb	97
18) Acetophenone	4.91	105	203035	91.55	ppb	97
19) 2-Methylphenol	4.71	108	114575	92.73	ppb	100
20) 2,2'-oxybis(1-Chloropropan	4.74	121	45172	83.39	ppb #	83
21) 3&4-Methylphenol	4.93	108	131491	88.87	ppb	97
22) n-Nitroso-di-n-propylamine	4.92	70	72315	97.75	ppb	99
23) Hexachloroethane	5.03	201	55002	86.53	ppb	98
26) Nitrobenzene	5.14	77	158853	86.84	ppb	98
27) Quinoline	6.68	129	307411	83.66	ppb	99
28) Isophorone	5.48	82	284211	85.22	ppb	97
29) 2-Nitrophenol	5.58	139	89438	85.12	ppb	96
30) 2,4-Dimethylphenol	5.67	107	144244	84.17	ppb	96
31) Benzoic acid	5.91	105	122528	78.59	ppb	97
32) bis(2-Chloroethoxy)methane	5.81	93	174769	84.63	ppb	95
33) 2,4-Dichlorophenol	5.94	162	123802	86.73	ppb	97
34) 2,6-Dichlorophenol	6.27	162	113895	83.28	ppb	99
35) 1,3,5-Trichlorobenzene	5.60	180	121653	89.47	ppb	98
36) 1,2,4-Trichlorobenzene	6.05	180	128184	86.52	ppb	98
37) 1,2,3-Trichlorobenzene	6.39	180	104843	87.07	ppb	99
38) Naphthalene	6.16	128	401936	96.58	ppb	92
39) 4-Chloroaniline	6.27	127	161737	88.21	ppb	96
40) 2,3-Dichloroaniline	7.66	161	141750	87.20	ppb	97
41) Caprolactam	6.83	55	62010m	76.03	ppb	
42) Hexachlorobutadiene	6.37	225	59466	83.22	ppb	98
43) 4-Chloro-3-methylphenol	7.06	107	140329	84.29	ppb	98
44) 2-Methylnaphthalene	7.22	141	246876	92.30	ppb	98
45) 1-Methylnaphthalene	7.37	142	263541	88.73	ppb	96
46) Dimethylnaphthalene	8.21	156	226831	89.00	ppb	98
48) Hexachlorocyclopentadiene	7.49	237	131029	171.13	ppb	98
49) 2,4,6-Trichlorophenol	7.68	196	82086	85.06	ppb	99
50) 2,4,5-Trichlorophenol	7.74	196	84031	81.75	ppb	97
52) 2-Chloronaphthalene	7.97	162	223850	88.00	ppb	96
53) Biphenyl	7.97	154	273965	95.72	ppb	96
54) 2-Nitroaniline	8.16	65	81906	81.06	ppb	99
55) Dimethylphthalate	8.50	163	298206	86.40	ppb	98
56) Acenaphthylene	8.62	152	411071	94.71	ppb	93
57) 2,6-Dinitrotoluene	8.57	165	69542	81.86	ppb	98
58) 3-Nitroaniline	8.82	138	92453	80.85	ppb	99
59) Acenaphthene	8.90	153	252687	89.81	ppb	97
60) 2,4-Dinitrophenol	8.99	184	82847	154.85	ppb	97
61) 4-Nitrophenol	9.15	109	46227	76.88	ppb	98
62) Dibenzofuran	9.18	168	331479	93.62	ppb	93
63) 2,4-Dinitrotoluene	9.20	165	84103	82.50	ppb	93
64) 2,3,4,6-Tetrachlorophenol	9.40	232	71588	81.95	ppb	99
65) Diethylphthalate	9.64	149	292720	89.43	ppb	96
66) Fluorene	9.72	166	284508	90.46	ppb	98

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

P88241.D MP3770.M Sat Aug 23 13:56:34 2014

Page 2

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP3770\P88241.D Vial: 11
 Acq On : 22 Aug 2014 11:07 pm Operator: kristis
 Sample : ic3770-80 Inst : MSP
 Misc : op76634,ep3771,1000,,,1,1 Multiplr: 1.00
 MS Integration Params: rteint.p
 Quant Time: Aug 22 23:29:25 2014 Quant Results File: MP3770.RES

Quant Method : C:\MSDCHEM\1\METHODS\MP3770.M (RTE Integrator)
 Title : Semi Volatile Extractables by GC/MS
 Last Update : Fri Aug 22 14:34:10 2014
 Response via : Initial Calibration
 DataAcq Meth : MP3770

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
67) 4-Chlorophenyl-phenylether	9.76	204	117806	84.76	ppb	98
68) 4-Nitroaniline	9.82	138	86926	78.47	ppb	99
70) 4,6-Dinitro-2-methylphenol	9.85	198	54063	76.76	ppb	98
71) n-Nitrosodiphenylamine	9.96	169	198583	83.85	ppb	99
72) 1,2-Diphenylhydrazine	10.01	77	284182	87.88	ppb	93
74) 4-Bromophenyl-phenylether	10.53	248	73854	82.51	ppb	99
75) Hexachlorobenzene	10.61	284	80977	82.75	ppb	99
76) Pentachlorophenol	10.94	266	104579	164.83	ppb	98
77) Phenanthrene	11.25	178	375628	89.40	ppb	94
78) Anthracene	11.33	178	388241	89.89	ppb	93
79) Carbazole	11.62	167	381728	89.51	ppb	95
80) Di-n-butylphthalate	12.31	149	495935	93.74	ppb	94
81) Fluoranthene	13.27	202	443858	91.28	ppb	95
82) Octadecane	11.19	57	128660	85.54	ppb	99
84) Pyrene	13.66	202	452467	91.05	ppb	94
86) Butylbenzylphthalate	15.01	149	234813	85.70	ppb	99
87) Butyl stearate	15.24	56	106679	86.43	ppb	97
88) Benzo[a]anthracene	15.90	228	409937	87.70	ppb	97
89) 3,3'-Dichlorobenzidine	15.93	252	130041	82.01	ppb	97
90) Chrysene	15.98	228	362017	84.77	ppb	95
91) bis(2-Ethylhexyl)phthalate	16.18	149	306732	86.53	ppb	95
93) Di-n-octylphthalate	17.39	149	557482	98.51	ppb	95
94) Benzo[b]fluoranthene	17.87	252	449518	90.82	ppb	96
95) Benzo[k]fluoranthene	17.91	252	357247	92.10	ppb	95
96) Benzo[a]pyrene	18.39	252	393768	91.61	ppb	95
97) Indeno[1,2,3-cd]pyrene	20.11	276	406784	88.15	ppb	98
98) Dibenz(a,h)acridine	19.79	279	341896	91.50	ppb	96
99) Dibenz[a,h]anthracene	20.16	278	388180	90.27	ppb	95
100) 7,12-Dimethylbenz(a)anthra	17.88	256	171745	84.60	ppb	98
101) Benzo[g,h,i]perylene	20.49	276	406761	89.84	ppb	96

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 P88241.D MP3770.M Sat Aug 23 13:56:34 2014

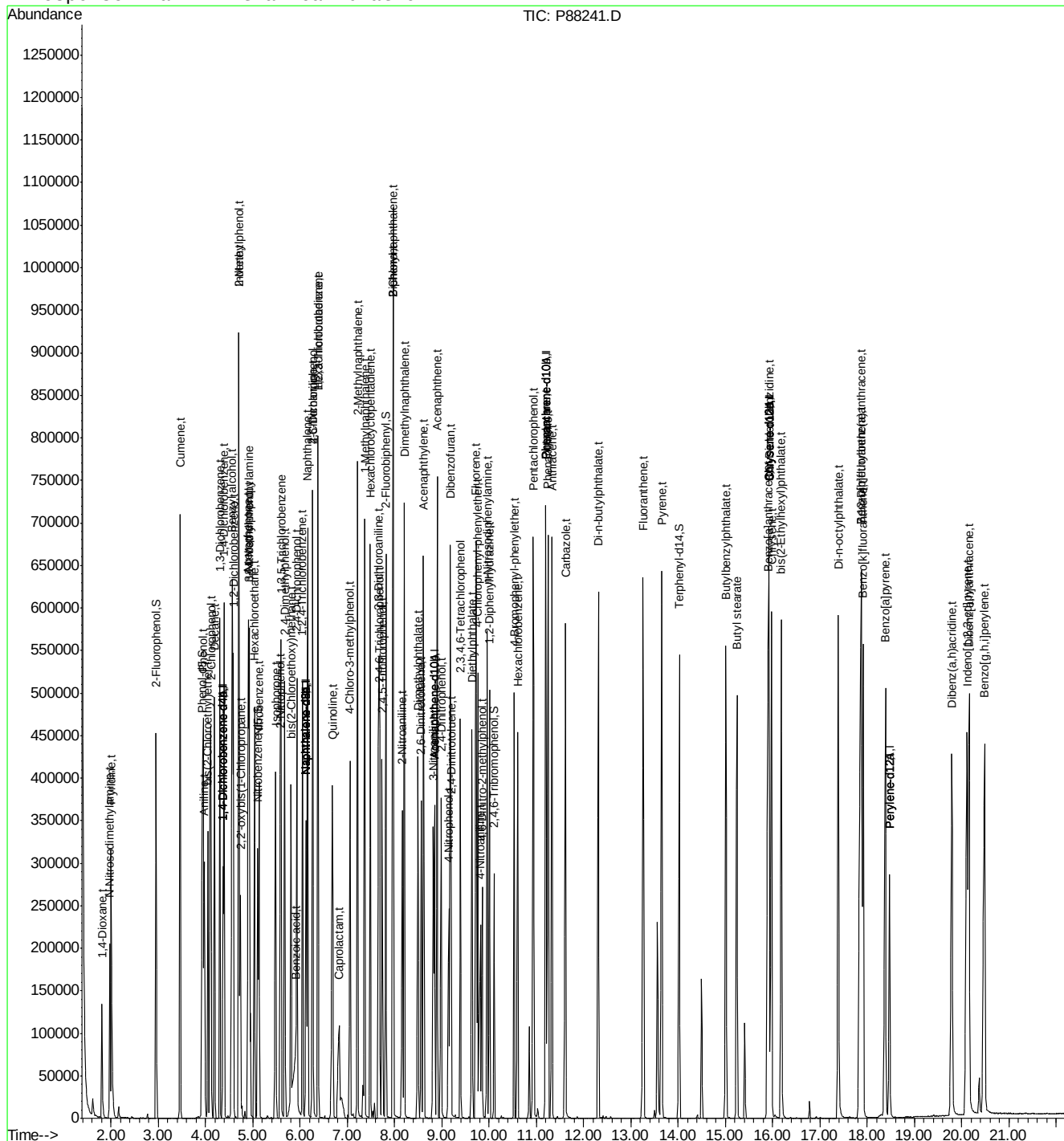
Quantitation Report (QT Reviewed)

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Data File   : C:\MSDCHEM\1\DATA\EP3770\P88241.D
Acq On      : 22 Aug 2014  11:07 pm
Sample      : ic3770-80
Misc        : op76634,ep3771,1000,,1,1
MS Integration Params: rteint.p
Quant Time  : Aug 23  7:53 2014           Qu
```

Vial: 11
Operator: kristis
Inst : MSP
Multiplr: 1.00

Quant Results File: MP3770.RES

Method : C:\MSDCHEM\1\METHODS\MP3770.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Sat Aug 23 10:46:47 2014
Response via : Initial Calibration



P88241.D MP3770.M

Sat Aug 23 13:56:35 2014

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9.6.36

Manual Integration Approval Summary

Sample Number: EP3771-IC3771

Method: SW846 8270D

Lab FileID: P88241.D

Analyst approved: 08/23/14 14:22 Kristi Schollenberger

Injection Time: 08/22/14 23:07

Supervisor approved: 08/25/14 11:00 Nina Pandya

Parameter	CAS	Sig#	R.T. (min.)	Reason
Caprolactam	105-60-2		6.83	Split peak

9.6.36.1
9

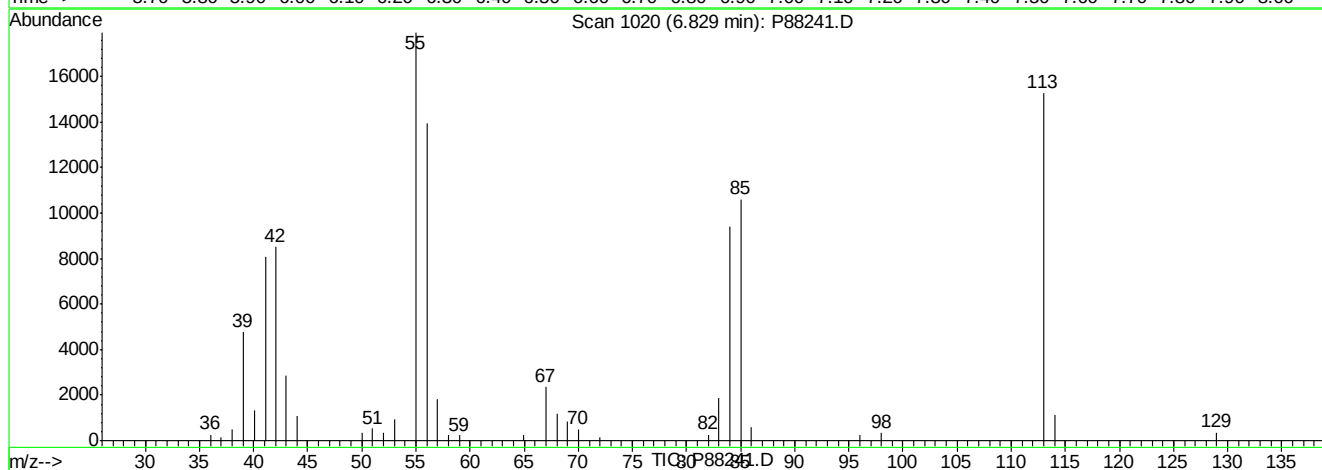
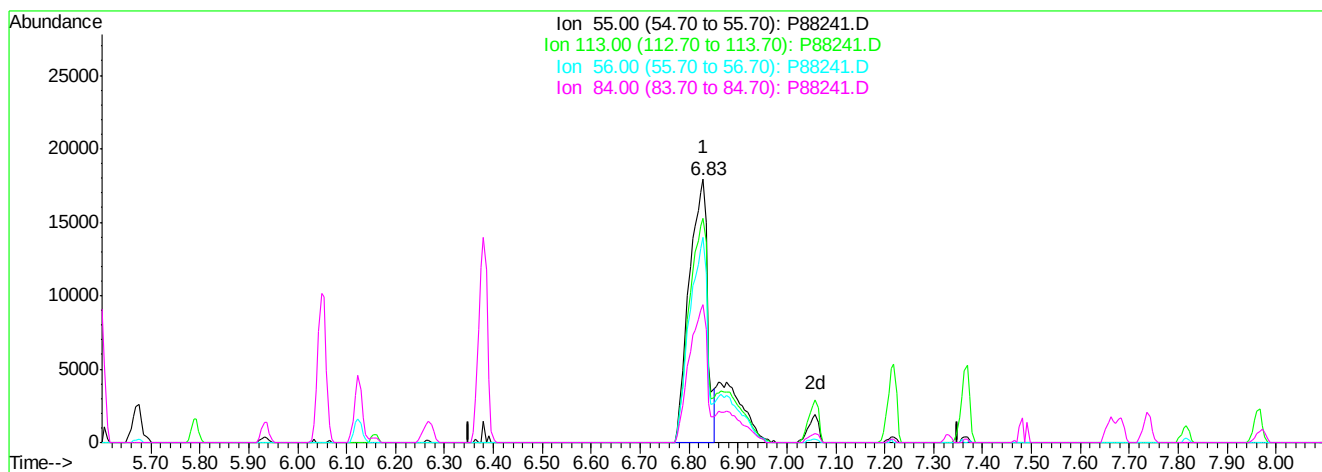
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EP3770\P88241.D
Acq On : 22 Aug 2014 11:07 pm
Sample : ic3770-80
Misc : op76634,ep3771,1000,,1,1
MS Integration Params: rteint.p
Quant Time: Aug 22 23:29 2014

Vial: 11
Operator: kristis
Inst : MSP
Multiplr: 1.00

Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MP3770.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Aug 22 14:34:10 2014
Response via : Multiple Level Calibration



(41) Caprolactam (t)

6.83min 56.69ppb

response 46237

Ion	Exp%	Act%
55.00	100	100
113.00	88.20	85.52
56.00	78.00	78.30
84.00	53.20	52.92

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EP3770\P88241.D

Vial: 11

Acq On : 22 Aug 2014 11:07 pm

Operator: kristis

Sample : ic3770-80

Inst : MSP

Misc : op76634,ep3771,1000,,,1,1

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Aug 23 7:53 2014

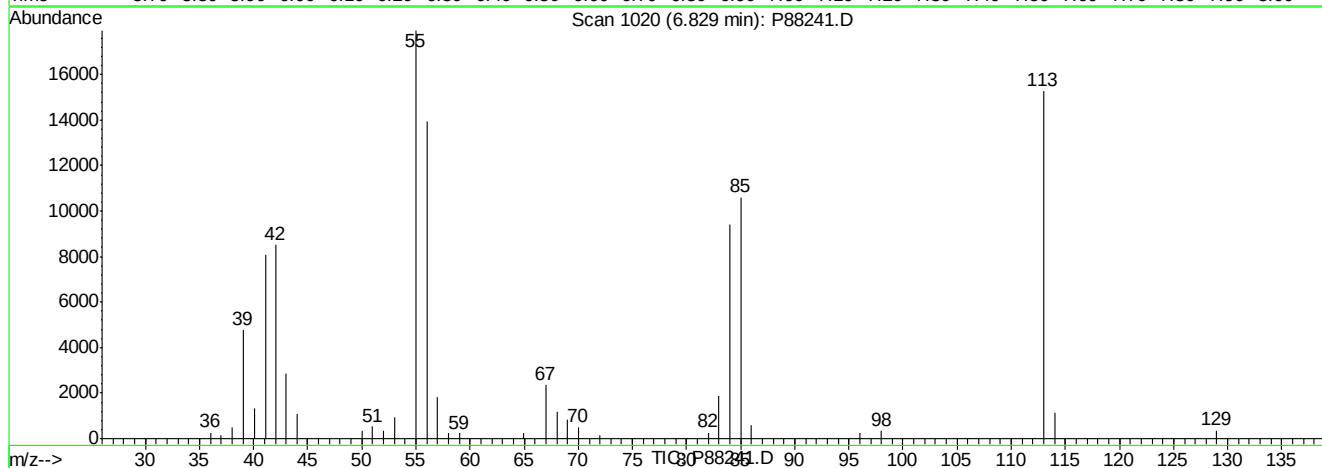
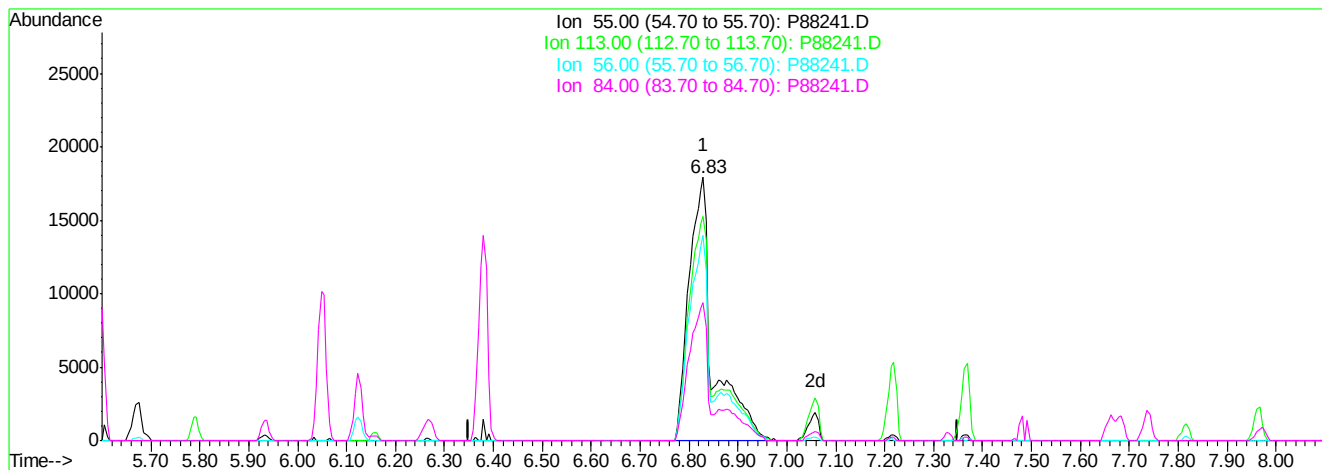
Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MP3770.M (RTE Integrator)

Title : Semi Volatile Extractables by GC/MS

Last Update : Sat Aug 23 10:46:47 2014

Response via : Multiple Level Calibration



(41) Caprolactam (t)

6.83min 76.03ppb m

response 62010

Ion	Exp%	Act%
55.00	100	100
113.00	88.20	85.18
56.00	78.00	77.79
84.00	53.20	52.47

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP3770\P88242.D
 Acq On : 22 Aug 2014 11:36 pm
 Sample : icc3770-50
 Misc : op76634,ep3771,1000,,,1,1
 MS Integration Params: rteint.p
 Quant Time: Aug 22 23:58:39 2014

Vial: 12
 Operator: kristis
 Inst : MSP
 Multiplr: 1.00

Quant Results File: MP3770.RES

Quant Method : C:\MSDCHEM\1\METHODS\MP3770.M (RTE Integrator)
 Title : Semi Volatile Extractables by GC/MS
 Last Update : Fri Aug 22 14:34:10 2014
 Response via : Initial Calibration
 DataAcq Meth : MP3770

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.37	152	38168	40.00	ppb	0.00
24) Naphthalene-d8	6.12	136	139697	40.00	ppb	-0.01
47) Acenaphthene-d10	8.84	164	76151	40.00	ppb	-0.01
69) Phenanthrene-d10	11.20	188	111372	40.00	ppb	-0.01
83) Chrysene-d12	15.91	240	106029	40.00	ppb	-0.02
92) Perylene-d12	18.46	264	110781	40.00	ppb	-0.02
102) 1,4-Dichlorobenzene-d4A	4.37	152	38168	40.00	ppb	0.00
112) Naphthalene-d8A	6.12	136	139697	40.00	ppb	-0.01
120) Acenaphthene-d10A	8.84	164	76151	40.00	ppb	-0.01
131) Phenanthrene-d10A	11.20	188	111372	40.00	ppb	-0.01
146) Chrysene-d12A	15.91	240	106029	40.00	ppb	-0.02
154) Perylene-d12A	18.46	264	110781	40.00	ppb	-0.02
157) 1,4-Dichlorobenzene-d4b	4.37	152	38168	40.00	ppb	0.00
159) Phenanthrene-d10b	11.20	188	111372	40.00	ppb	-0.01
161) Chrysene-d12b	15.91	240	106029	40.00	ppb	-0.02
163) Naphthalene-d8b	6.12	136	139697	40.00	ppb	-0.01
165) Acenaphthene-d10b	8.84	164	76151	40.00	ppb	-0.01
167) Naphthalene-d8c	6.12	136	139697	40.00	ppb	-0.01
172) 1,4-Dichlorobenzene-d4a	4.37	152	38168	40.00	ppb	0.00
174) Chrysene-d12c	15.91	240	106029	40.00	ppb	-0.02
176) Chrysene-d12d	15.91	240	106029	40.00	ppb	-0.02
178) Naphthalene-d8a	6.12	136	139697	40.00	ppb	0.00
180) Naphthalene-d8b	6.12	136	139697	40.00	ppb	0.00
182) Perylene-d12a	18.46	264	110781	40.00	ppb	-0.02

System Monitoring Compounds

5) 2-Fluorophenol	2.95	112	71317	61.08	ppb	0.00
Spiked Amount	50.000		Recovery	=	122.16%	
8) Phenol-d5	3.92	99	88040	59.76	ppb	-0.02
Spiked Amount	50.000		Recovery	=	119.52%	
25) Nitrobenzene-d5	5.09	82	67725	54.54	ppb	-0.02
Spiked Amount	50.000		Recovery	=	109.08%	
51) 2-Fluorobiphenyl	7.81	172	123554	60.81	ppb	-0.01
Spiked Amount	50.000		Recovery	=	121.62%	
73) 2,4,6-Tribromophenol	10.10	330	15898	48.68	ppb	-0.02
Spiked Amount	50.000		Recovery	=	97.36%	
85) Terphenyl-d14	14.01	244	121233	55.57	ppb	-0.02
Spiked Amount	50.000		Recovery	=	111.14%	

Target Compounds

						Qvalue
2) 1,4-Dioxane	1.81	88	29951	53.59	ppb	99
3) Pyridine	2.00	79	79214	58.93	ppb	99
4) N-Nitrosodimethylamine	1.97	42	27559	55.20	ppb	99
6) Indene	4.70	116	105191	67.83	ppb	94
7) Cumene	3.46	105	166898	73.93	ppb	91
9) Phenol	3.93	94	94522	62.91	ppb	84
10) Aniline	3.97	93	107409	69.46	ppb	93
11) bis(2-Chloroethyl)ether	4.05	93	67571	59.18	ppb	97
12) 2-Chlorophenol	4.11	128	72872	67.22	ppb	93
13) Decane	4.18	43	51272	67.69	ppb	92

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

P88242.D MP3770.M Sat Aug 23 13:56:49 2014

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP3770\P88242.D Vial: 12
 Acq On : 22 Aug 2014 11:36 pm Operator: kristis
 Sample : icc3770-50 Inst : MSP
 Misc : op76634,ep3771,1000,,,1,1 Multiplr: 1.00
 MS Integration Params: rteint.p
 Quant Time: Aug 22 23:58:39 2014 Quant Results File: MP3770.RES

Quant Method : C:\MSDCHEM\1\METHODS\MP3770.M (RTE Integrator)
 Title : Semi Volatile Extractables by GC/MS
 Last Update : Fri Aug 22 14:34:10 2014
 Response via : Initial Calibration
 DataAcq Meth : MP3770

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
14) 1,3-Dichlorobenzene	4.30	146	81311	65.59	ppb	93
15) 1,4-Dichlorobenzene	4.39	146	79337	67.86	ppb	93
16) Benzyl alcohol	4.54	108	49035	61.90	ppb	98
17) 1,2-Dichlorobenzene	4.59	146	73004	68.77	ppb	94
18) Acetophenone	4.89	105	91823	61.24	ppb	98
19) 2-Methylphenol	4.70	108	56867	68.07	ppb	99
20) 2,2'-oxybis(1-Chloropropan	4.73	121	20695	56.50	ppb	# 76
21) 3&4-Methylphenol	4.91	108	60675	60.66	ppb	96
22) n-Nitroso-di-n-propylamine	4.91	70	42273	84.51	ppb	98
23) Hexachloroethane	5.03	201	25045	58.28	ppb	89
26) Nitrobenzene	5.12	77	72573	59.19	ppb	96
27) Quinoline	6.66	129	133384	54.15	ppb	97
28) Isophorone	5.46	82	127429	57.00	ppb	96
29) 2-Nitrophenol	5.57	139	39597	56.22	ppb	92
30) 2,4-Dimethylphenol	5.66	107	64318	55.99	ppb	98
31) Benzoic acid	5.84	105	48634m	46.54	ppb	
32) bis(2-Chloroethoxy)methane	5.80	93	78437	56.66	ppb	95
33) 2,4-Dichlorophenol	5.93	162	56910	59.48	ppb	97
34) 2,6-Dichlorophenol	6.26	162	53600	58.47	ppb	98
35) 1,3,5-Trichlorobenzene	5.59	180	58733	64.44	ppb	97
36) 1,2,4-Trichlorobenzene	6.05	180	59665	60.08	ppb	96
37) 1,2,3-Trichlorobenzene	6.37	180	51593	63.92	ppb	98
38) Naphthalene	6.15	128	198035	70.99	ppb	91
39) 4-Chloroaniline	6.25	127	83166	67.67	ppb	95
40) 2,3-Dichloroaniline	7.66	161	64700	59.38	ppb	96
41) Caprolactam	6.78	55	25447	46.54	ppb	98
42) Hexachlorobutadiene	6.37	225	28150	58.77	ppb	97
43) 4-Chloro-3-methylphenol	7.04	107	60718	54.41	ppb	99
44) 2-Methylnaphthalene	7.21	141	119741	66.78	ppb	98
45) 1-Methylnaphthalene	7.36	142	127601	64.09	ppb	97
46) Dimethylnaphthalene	8.20	156	107631	63.00	ppb	98
48) Hexachlorocyclopentadiene	7.48	237	59807	114.36	ppb	99
49) 2,4,6-Trichlorophenol	7.67	196	37425	56.78	ppb	99
50) 2,4,5-Trichlorophenol	7.72	196	37818	53.87	ppb	97
52) 2-Chloronaphthalene	7.96	162	110772	63.75	ppb	95
53) Biphenyl	7.96	154	137426	70.30	ppb	95
54) 2-Nitroaniline	8.15	65	34478	49.96	ppb	99
55) Dimethylphthalate	8.48	163	132626	56.26	ppb	96
56) Acenaphthylene	8.61	152	199316	67.24	ppb	92
57) 2,6-Dinitrotoluene	8.55	165	29930	51.58	ppb	98
58) 3-Nitroaniline	8.80	138	40106	51.35	ppb	98
59) Acenaphthene	8.89	153	122472	63.73	ppb	97
60) 2,4-Dinitrophenol	8.97	184	31475	86.13	ppb	95
61) 4-Nitrophenol	9.12	109	17396	42.36	ppb	88
62) Dibenzofuran	9.17	168	158882	65.70	ppb	94
63) 2,4-Dinitrotoluene	9.18	165	38305	55.01	ppb	94
64) 2,3,4,6-Tetrachlorophenol	9.38	232	31702	53.13	ppb	99
65) Diethylphthalate	9.63	149	133709	59.80	ppb	94
66) Fluorene	9.71	166	134895	62.79	ppb	97

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

P88242.D MP3770.M Sat Aug 23 13:56:49 2014

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Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP3770\P88242.D Vial: 12
 Acq On : 22 Aug 2014 11:36 pm Operator: kristis
 Sample : icc3770-50 Inst : MSP
 Misc : op76634,ep3771,1000,,,1,1 Multiplr: 1.00
 MS Integration Params: rteint.p
 Quant Time: Aug 22 23:58:39 2014 Quant Results File: MP3770.RES

Quant Method : C:\MSDCHEM\1\METHODS\MP3770.M (RTE Integrator)
 Title : Semi Volatile Extractables by GC/MS
 Last Update : Fri Aug 22 14:34:10 2014
 Response via : Initial Calibration
 DataAcq Meth : MP3770

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
67) 4-Chlorophenyl-phenylether	9.75	204	56286	59.29	ppb	94
68) 4-Nitroaniline	9.78	138	37502	49.57	ppb	98
70) 4,6-Dinitro-2-methylphenol	9.83	198	21635	42.96	ppb	93
71) n-Nitrosodiphenylamine	9.94	169	92397	54.57	ppb	99
72) 1,2-Diphenylhydrazine	10.00	77	136049	58.84	ppb	91
74) 4-Bromophenyl-phenylether	10.53	248	33897	52.97	ppb	93
75) Hexachlorobenzene	10.60	284	37411	53.47	ppb	99
76) Pentachlorophenol	10.93	266	46100	101.62	ppb	98
77) Phenanthrene	11.24	178	180802	60.18	ppb	93
78) Anthracene	11.32	178	184964	59.90	ppb	93
79) Carbazole	11.60	167	175730	57.63	ppb	95
80) Di-n-butylphthalate	12.30	149	230507	60.94	ppb	94
81) Fluoranthene	13.25	202	204300	58.76	ppb	100
82) Octadecane	11.19	57	63976	59.49	ppb	97
84) Pyrene	13.64	202	209857	59.79	ppb	98
86) Butylbenzylphthalate	15.00	149	104053	53.76	ppb	98
87) Butyl stearate	15.23	56	51109	58.62	ppb	93
88) Benzo[a]anthracene	15.89	228	185592	56.21	ppb	95
89) 3,3'-Dichlorobenzidine	15.91	252	58673	52.39	ppb	95
90) Chrysene	15.96	228	166946	55.34	ppb	95
91) bis(2-Ethylhexyl)phthalate	16.18	149	137559	54.94	ppb	94
93) Di-n-octylphthalate	17.38	149	244293	61.91	ppb	94
94) Benzo[b]fluoranthene	17.83	252	192285m	55.72	ppb	
95) Benzo[k]fluoranthene	17.89	252	176019	65.08	ppb	93
96) Benzo[a]pyrene	18.37	252	177533	59.24	ppb	95
97) Indeno[1,2,3-cd]pyrene	20.09	276	175805	54.64	ppb	94
98) Dibenz(a,h)acridine	19.77	279	147923	56.78	ppb	95
99) Dibenz[a,h]anthracene	20.13	278	174908	58.33	ppb	96
100) 7,12-Dimethylbenz(a)anthra	17.85	256	79755	56.34	ppb	98
101) Benzo[g,h,i]perylene	20.46	276	179913	56.99	ppb	96

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 P88242.D MP3770.M Sat Aug 23 13:56:49 2014

Quantitation Report (QT Reviewed)

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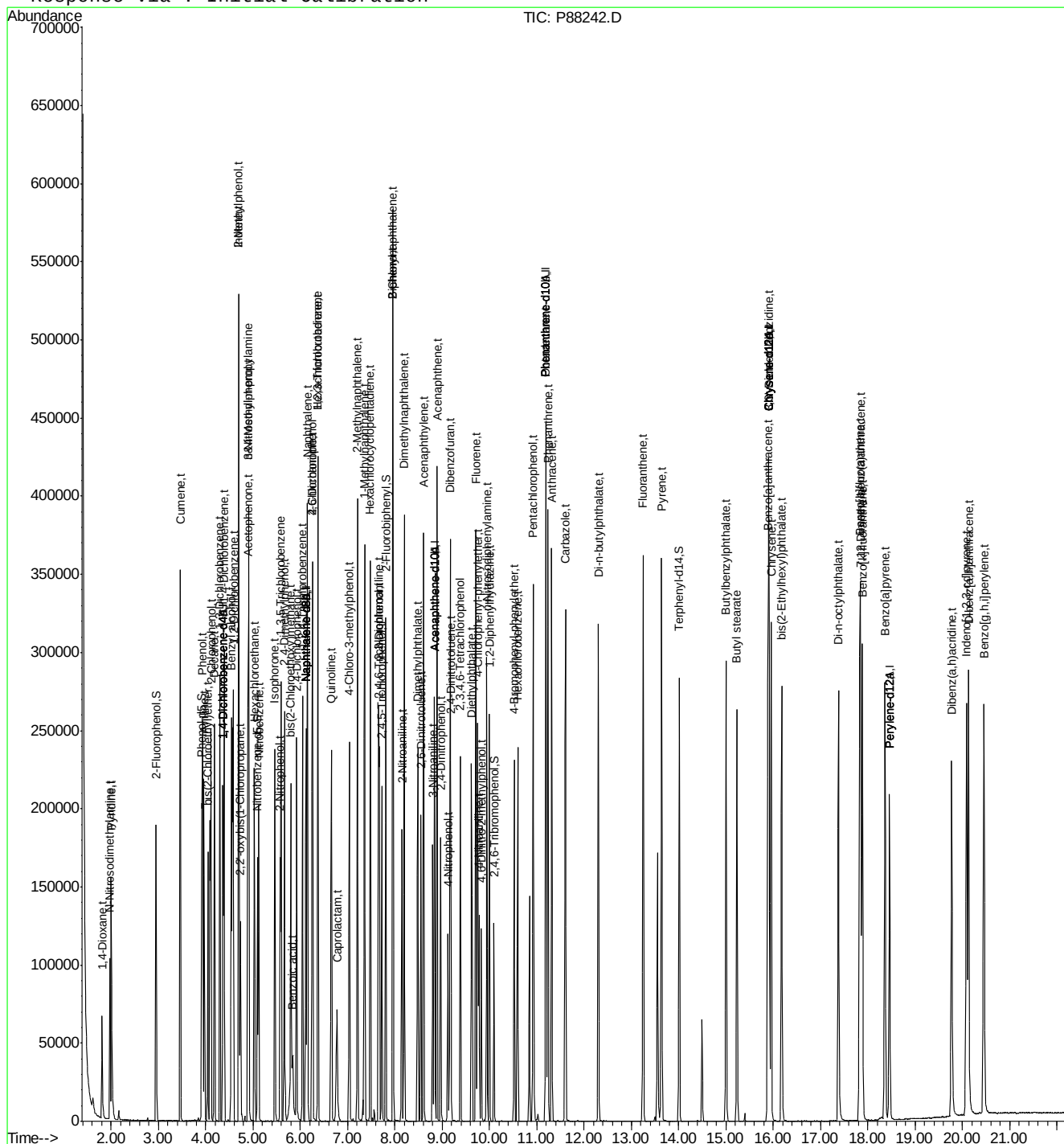
Data File   : C:\MSDCHEM\1\DATA\EP3770\P88242.D
Acq On      : 22 Aug 2014  11:36 pm
Sample      : icc3770-50
Misc        : op76634,ep3771,1000,,1,1
MS Integration Params: rteint.p
Quant Time  : Aug 23  7:55 2014

```

Vial: 12
Operator: kristis
Inst : MSP
Multiplr: 1.00

Quant Results File: MP3770.RES

Method : C:\MSDCHEM\1\METHODS\MP3770.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Sat Aug 23 10:46:47 2014
Response via : Initial Calibration



Manual Integration Approval Summary

Sample Number:

EP3771-ICC3771

Method:

SW846 8270D

Lab FileID:

P88242.D

Analyst approved:

08/23/14 14:22 Kristi Schollenberger

Injection Time:

08/22/14 23:36

Supervisor approved:

08/25/14 11:00 Nina Pandya

Parameter	CAS	Sig#	R.T. (min.)	Reason
Benzoic acid	65-85-0		5.84	Split peak
Benzo(b)fluoranthene	205-99-2		17.83	Overlapping peak

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EP3770\P88242.D

Vial: 12

Acq On : 22 Aug 2014 11:36 pm

Operator: kristis

Sample : icc3770-50

Inst : MSP

Misc : op76634,ep3771,1000,,,1,1

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Aug 22 23:58 2014

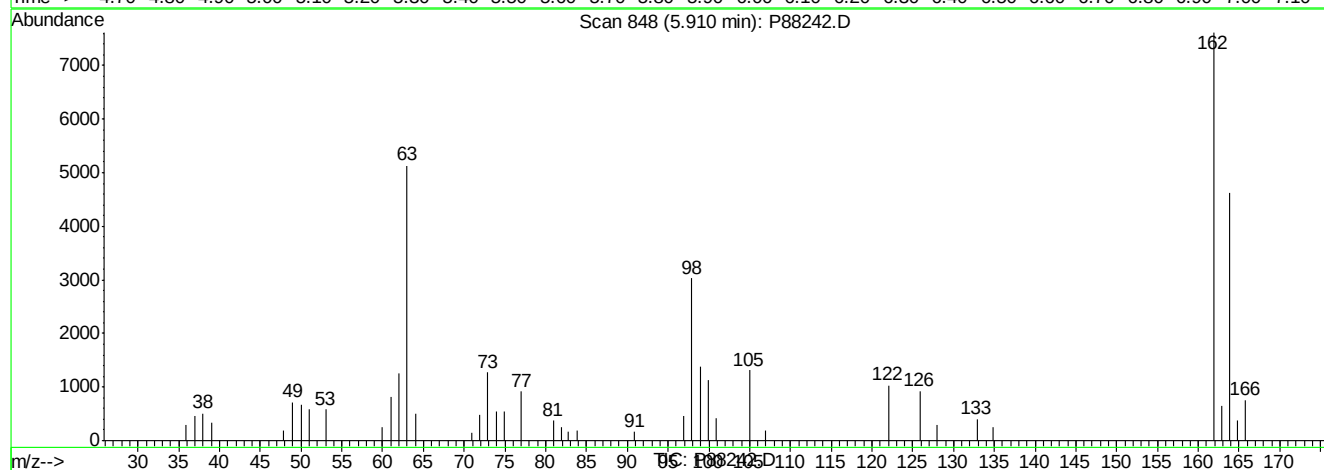
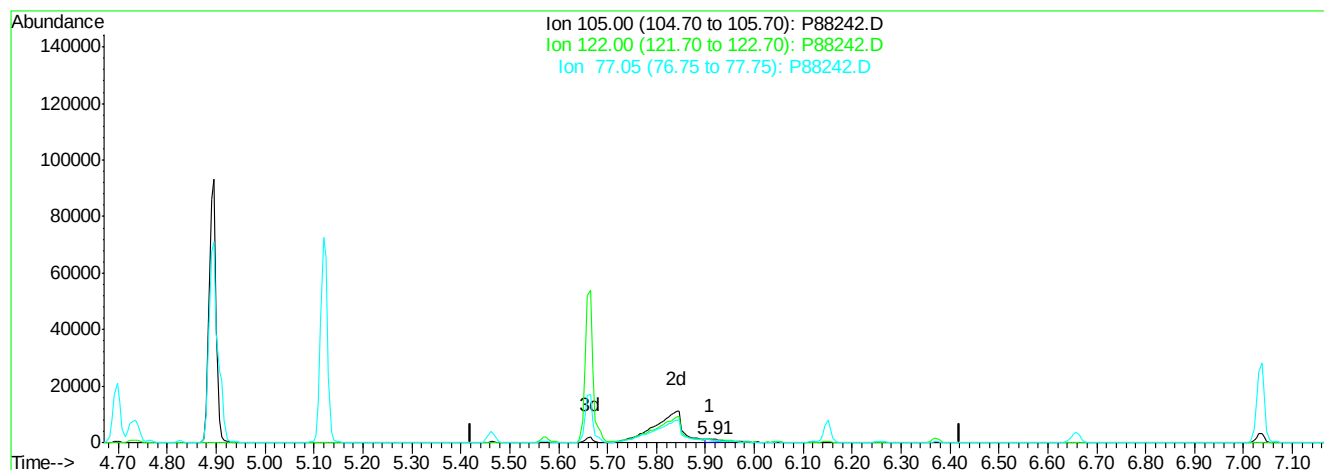
Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MP3770.M (RTE Integrator)

Title : Semi Volatile Extractables by GC/MS

Last Update : Fri Aug 22 14:34:10 2014

Response via : Multiple Level Calibration



(31) Benzoic acid (t)

5.91min 2.21ppb

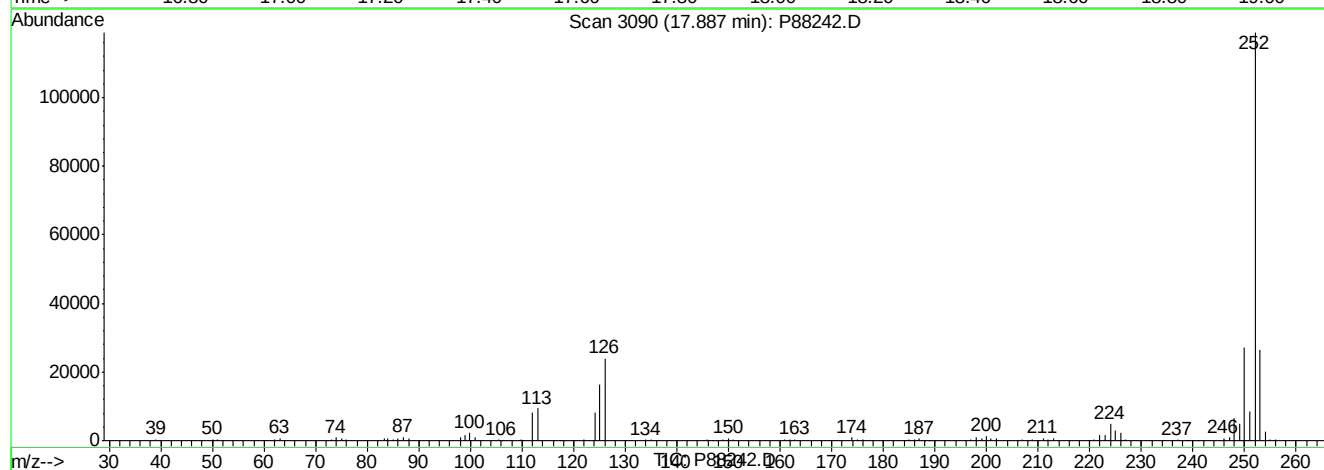
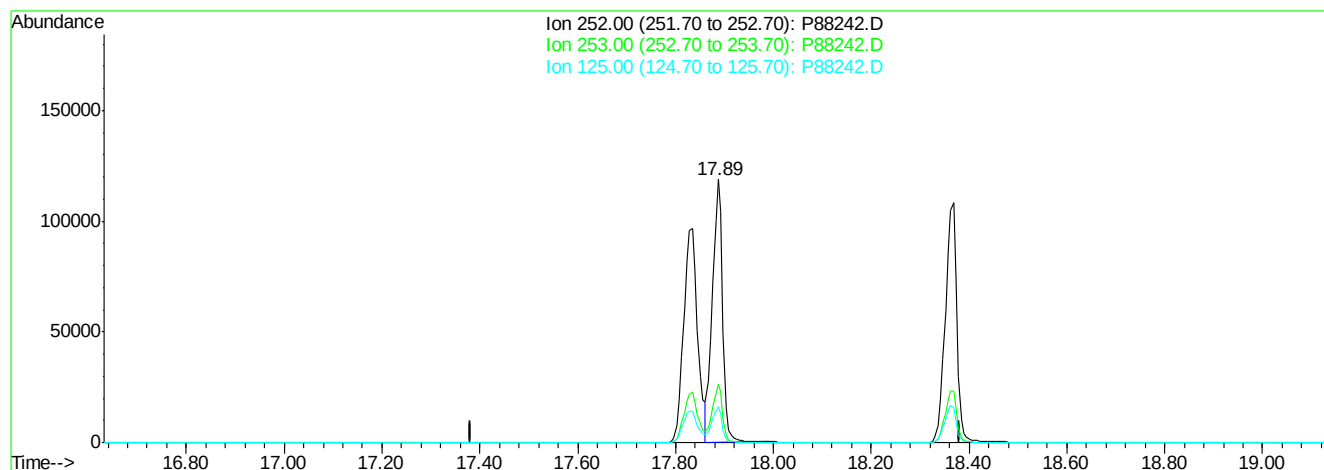
response 2306

Ion	Exp%	Act%
105.00	100	100
122.00	82.30	53.08
77.05	71.60	50.74
0.00	0.00	0.00

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EP3770\P88242.D Vial: 12
Acq On : 22 Aug 2014 11:36 pm Operator: kristis
Sample : icc3770-50 Inst : MSP
Misc : op76634,ep3771,1000,,,1,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 23 7:53 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MP3770.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Aug 22 14:34:10 2014
Response via : Multiple Level Calibration



(94) Benzo[b]fluoranthene (t)

17.89min 51.00ppb

response 176019

Ion	Exp%	Act%
252.00	100	100
253.00	27.70	21.84
125.00	16.10	13.08
0.00	0.00	0.00

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EP3770\P88242.D

Vial: 12

Acq On : 22 Aug 2014 11:36 pm

Operator: kristis

Sample : icc3770-50

Inst : MSP

Misc : op76634,ep3771,1000,,,1,1

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Aug 23 7:55 2014

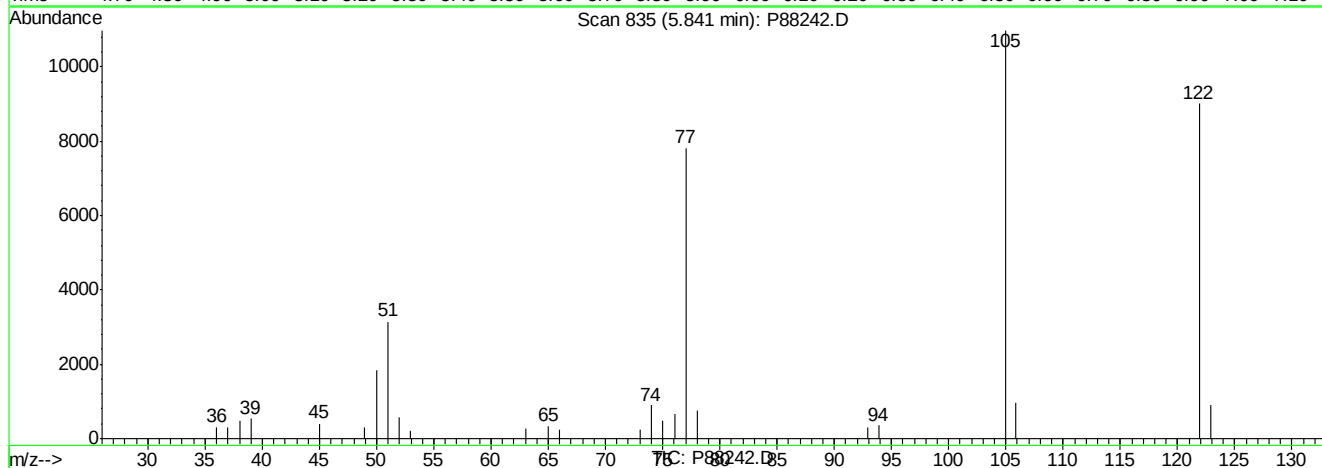
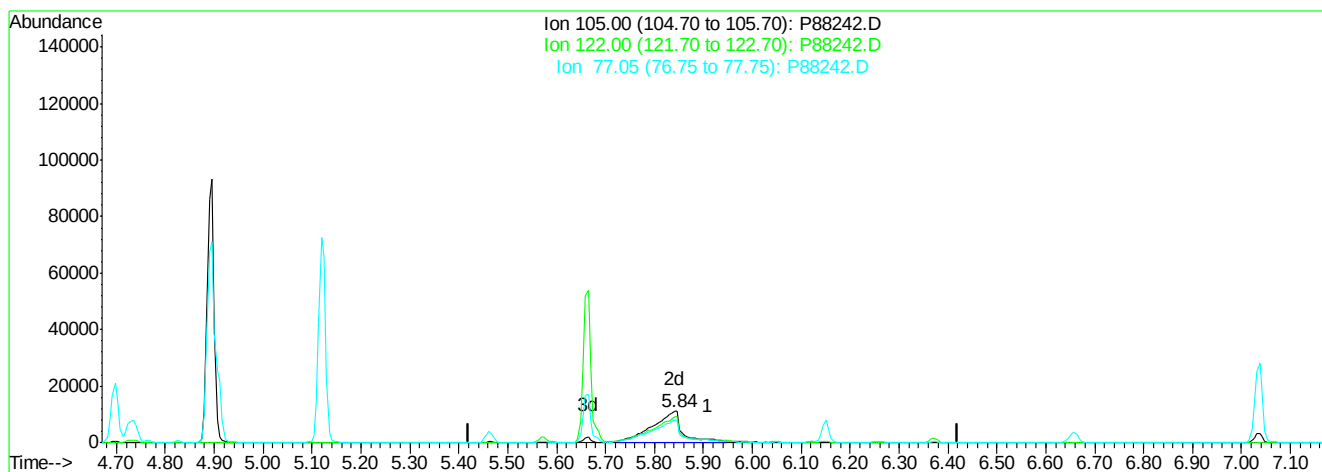
Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MP3770.M (RTE Integrator)

Title : Semi Volatile Extractables by GC/MS

Last Update : Sat Aug 23 10:46:47 2014

Response via : Multiple Level Calibration



(31) Benzoic acid (t)

5.84min 46.54ppb m

response 48634

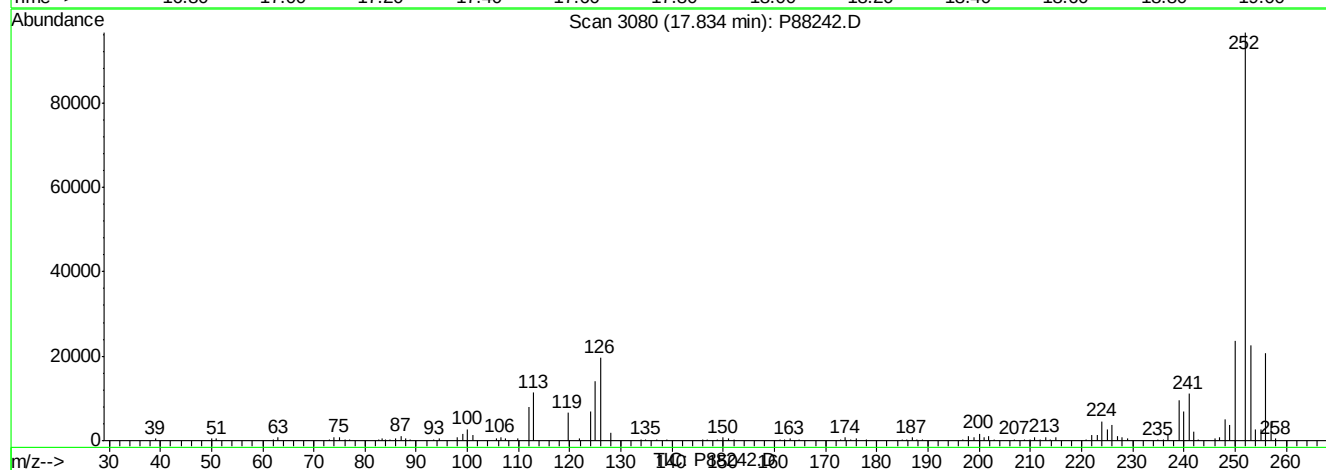
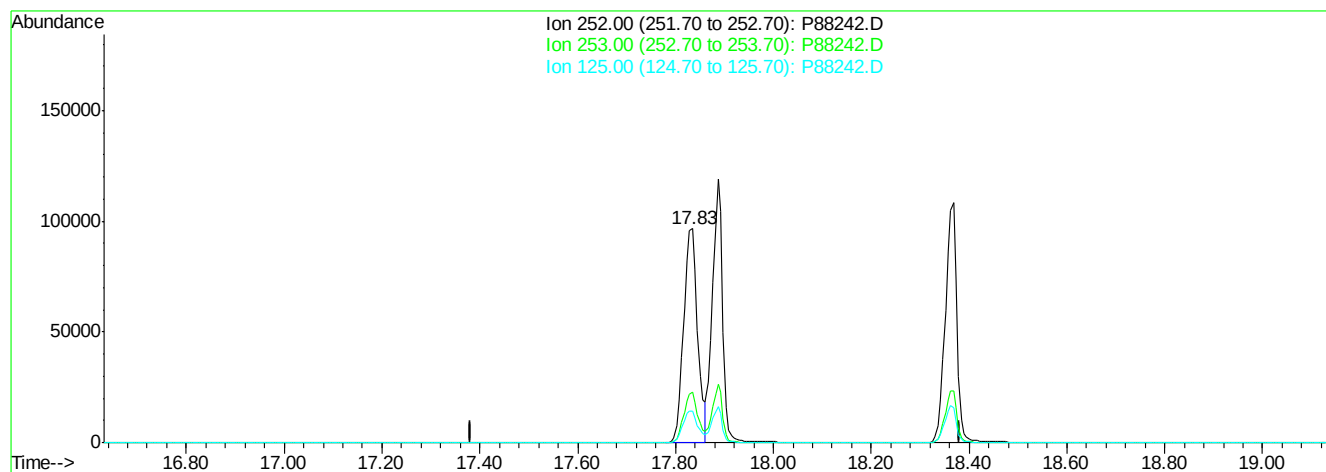
Ion	Exp%	Act%
105.00	100	100
122.00	82.30	82.12
77.05	71.60	71.24
0.00	0.00	0.00

```

Data File : C:\MSDCHEM\1\DATA\EP3770\P88242.D          Vial: 12
Acq On    : 22 Aug 2014  11:36 pm                      Operator: kristis
Sample    : icc3770-50                                  Inst  : MSP
Misc      : op76634,ep3771,1000,,,1,1                 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 23  7:55 2014                          Quant Results File: temp.res

```

Method : C:\MSDCHEM\1\METHODS\MP3770.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Sat Aug 23 10:46:47 2014
Response via : Multiple Level Calibration



(94) Benzo[b]fluoranthene (t)

17.83min 55.72ppb m

response 192285

Ion	Exp%	Act%
252.00	100	100
253.00	27.70	23.4
125.00	16.10	14.5
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP3770\P88243.D

Vial: 13

Acq On : 23 Aug 2014 12:05 am

Operator: kristis

Sample : ic3770-25

Inst : MSP

Misc : op76634,ep3771,1000,,,1,1

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Aug 23 13:57:44 2014

Quant Results File: MP3770.RES

Quant Method : C:\MSDCHEM\1\METHODS\MP3770.M (RTE Integrator)

Title : Semi Volatile Extractables by GC/MS

Last Update : Sat Aug 23 10:46:47 2014

Response via : Initial Calibration

DataAcq Meth : MP3770

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.37	152	36173	40.00	ppb	0.00
24) Naphthalene-d8	6.12	136	134106	40.00	ppb	0.00
47) Acenaphthene-d10	8.84	164	72264	40.00	ppb	0.00
69) Phenanthrene-d10	11.19	188	109449	40.00	ppb	0.00
83) Chrysene-d12	15.91	240	106622	40.00	ppb	0.00
92) Perylene-d12	18.46	264	103548	40.00	ppb	0.00
102) 1,4-Dichlorobenzene-d4A	4.37	152	36173	40.00	ppb	0.00
112) Naphthalene-d8A	6.12	136	134106	40.00	ppb	0.00
120) Acenaphthene-d10A	8.84	164	72264	40.00	ppb	0.00
131) Phenanthrene-d10A	11.19	188	109449	40.00	ppb	0.00
146) Chrysene-d12A	15.91	240	106622	40.00	ppb	0.00
154) Perylene-d12A	18.46	264	103548	40.00	ppb	0.00
157) 1,4-Dichlorobenzene-d4b	4.37	152	36173	40.00	ppb	0.00
159) Phenanthrene-d10b	11.19	188	109449	40.00	ppb	0.00
161) Chrysene-d12b	15.91	240	106622	40.00	ppb	0.00
163) Naphthalene-d8b	6.12	136	134106	40.00	ppb	0.00
165) Acenaphthene-d10b	8.84	164	72264	40.00	ppb	0.00
167) Naphthalene-d8c	6.12	136	134106	40.00	ppb	0.00
172) 1,4-Dichlorobenzene-d4a	4.37	152	36173	40.00	ppb	0.00
174) Chrysene-d12c	15.91	240	106622	40.00	ppb	0.00
176) Chrysene-d12d	15.91	240	106622	40.00	ppb	0.00
178) Naphthalene-d8a	6.12	136	134106	40.00	ppb	0.00
180) Naphthalene-d8b	6.12	136	134106	40.00	ppb	0.00
182) Perylene-d12a	18.46	264	103548	40.00	ppb	-0.02

System Monitoring Compounds

5) 2-Fluorophenol	2.95	112	32934	23.64	ppb	0.00
Spiked Amount	50.000		Recovery	=	47.28%	
8) Phenol-d5	3.91	99	40513	23.57	ppb	0.00
Spiked Amount	50.000		Recovery	=	47.14%	
25) Nitrobenzene-d5	5.09	82	31320	23.26	ppb	0.00
Spiked Amount	50.000		Recovery	=	46.52%	
51) 2-Fluorobiphenyl	7.81	172	60848	24.28	ppb	0.00
Spiked Amount	50.000		Recovery	=	48.56%	
73) 2,4,6-Tribromophenol	10.09	330	7128	25.37	ppb	0.00
Spiked Amount	50.000		Recovery	=	50.74%	
85) Terphenyl-d14	14.01	244	57256	23.25	ppb	0.00
Spiked Amount	50.000		Recovery	=	46.50%	

Target Compounds

						Qvalue
2) 1,4-Dioxane	1.81	88	13715	23.29	ppb	99
3) Pyridine	2.00	79	36172	23.38	ppb	99
4) N-Nitrosodimethylamine	1.97	42	12631	23.23	ppb	99
6) Indene	4.70	116	52615	24.72	ppb	99
7) Cumene	3.46	105	80909	23.73	ppb	99
9) Phenol	3.93	94	45738	23.71	ppb	98
10) Aniline	3.97	93	53861	22.86	ppb	98
11) bis(2-Chloroethyl)ether	4.04	93	33134	23.23	ppb	98
12) 2-Chlorophenol	4.10	128	35883	23.78	ppb	97
13) Decane	4.18	43	26023	23.51	ppb	99

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

P88243.D MP3770.M Sat Aug 23 13:59:21 2014

Page 1

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP3770\P88243.D

Vial: 13

Acq On : 23 Aug 2014 12:05 am

Operator: kristis

Sample : ic3770-25

Inst : MSP

Misc : op76634,ep3771,1000,,,1,1

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Aug 23 13:57:44 2014

Quant Results File: MP3770.RES

Quant Method : C:\MSDCHEM\1\METHODS\MP3770.M (RTE Integrator)

Title : Semi Volatile Extractables by GC/MS

Last Update : Sat Aug 23 10:46:47 2014

Response via : Initial Calibration

DataAcq Meth : MP3770

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
14) 1,3-Dichlorobenzene	4.30	146	39748	23.40	ppb	99
15) 1,4-Dichlorobenzene	4.39	146	38117	23.35	ppb	98
16) Benzyl alcohol	4.54	108	23129	24.52	ppb	98
17) 1,2-Dichlorobenzene	4.59	146	35945	22.49	ppb	99
18) Acetophenone	4.89	105	43886	23.05	ppb	98
19) 2-Methylphenol	4.69	108	28470	24.23	ppb	99
20) 2,2'-oxybis(1-Chloropropan	4.73	121	10086	23.44	ppb	98
21) 3&4-Methylphenol	4.90	108	29649	23.94	ppb	96
22) n-Nitroso-di-n-propylamine	4.90	70	20706	22.47	ppb	98
23) Hexachloroethane	5.03	201	11879	23.60	ppb	99
26) Nitrobenzene	5.11	77	33883	22.99	ppb	97
27) Quinoline	6.65	129	62129	22.99	ppb	99
28) Isophorone	5.46	82	60221	23.33	ppb	100
29) 2-Nitrophenol	5.57	139	17438	25.03	ppb	96
30) 2,4-Dimethylphenol	5.66	107	29011	24.71	ppb	98
31) Benzoic acid	5.80	105	19227	21.44	ppb	99
32) bis(2-Chloroethoxy)methane	5.80	93	37355	22.52	ppb	100
33) 2,4-Dichlorophenol	5.92	162	26776	24.28	ppb	99
34) 2,6-Dichlorophenol	6.26	162	25767	23.86	ppb	100
35) 1,3,5-Trichlorobenzene	5.59	180	28807	21.96	ppb	100
36) 1,2,4-Trichlorobenzene	6.04	180	29190	22.13	ppb	99
37) 1,2,3-Trichlorobenzene	6.37	180	25297	21.51	ppb	98
38) Naphthalene	6.15	128	97867	22.52	ppb	99
39) 4-Chloroaniline	6.25	127	40738	24.40	ppb	99
40) 2,3-Dichloroaniline	7.65	161	31030	23.00	ppb	99
41) Caprolactam	6.74	55	11109	24.14	ppb	96
42) Hexachlorobutadiene	6.37	225	13870	21.90	ppb	97
43) 4-Chloro-3-methylphenol	7.03	107	27441	24.16	ppb	99
44) 2-Methylnaphthalene	7.21	141	58549	22.39	ppb	98
45) 1-Methylnaphthalene	7.36	142	61575	22.08	ppb	95
46) Dimethylnaphthalene	8.19	156	52295	22.95	ppb	99
48) Hexachlorocyclopentadiene	7.48	237	27347	51.01	ppb	99
49) 2,4,6-Trichlorophenol	7.67	196	17569	24.37	ppb	98
50) 2,4,5-Trichlorophenol	7.72	196	17213	24.52	ppb	99
52) 2-Chloronaphthalene	7.96	162	55844	23.43	ppb	100
53) Biphenyl	7.95	154	69800	24.10	ppb	99
54) 2-Nitroaniline	8.14	65	15085	25.92	ppb	97
55) Dimethylphthalate	8.47	163	62441	22.97	ppb	99
56) Acenaphthylene	8.60	152	96019	23.32	ppb	99
57) 2,6-Dinitrotoluene	8.54	165	13561	25.95	ppb	97
58) 3-Nitroaniline	8.79	138	17473	26.11	ppb	99
59) Acenaphthene	8.89	153	60090	23.45	ppb	99
60) 2,4-Dinitrophenol	8.96	184	11311	39.38	ppb	96
61) 4-Nitrophenol	9.12	109	7146	21.06	ppb	# 86
62) Dibenzofuran	9.16	168	78175	22.24	ppb	97
63) 2,4-Dinitrotoluene	9.17	165	17777	25.85	ppb	82
64) 2,3,4,6-Tetrachlorophenol	9.38	232	14051	24.85	ppb	99
65) Diethylphthalate	9.62	149	62203	23.25	ppb	99
66) Fluorene	9.71	166	65590	23.35	ppb	99

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

P88243.D MP3770.M Sat Aug 23 13:59:21 2014

Page 2

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP3770\P88243.D Vial: 13
 Acq On : 23 Aug 2014 12:05 am Operator: kristis
 Sample : ic3770-25 Inst : MSP
 Misc : op76634,ep3771,1000,,,1,1 Multiplr: 1.00
 MS Integration Params: rteint.p
 Quant Time: Aug 23 13:57:44 2014 Quant Results File: MP3770.RES

Quant Method : C:\MSDCHEM\1\METHODS\MP3770.M (RTE Integrator)
 Title : Semi Volatile Extractables by GC/MS
 Last Update : Sat Aug 23 10:46:47 2014
 Response via : Initial Calibration
 DataAcq Meth : MP3770

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
67) 4-Chlorophenyl-phenylether	9.75	204	27489	23.14	ppb	98
68) 4-Nitroaniline	9.77	138	16949	26.51	ppb	93
70) 4,6-Dinitro-2-methylphenol	9.82	198	8307	19.93	ppb	96
71) n-Nitrosodiphenylamine	9.94	169	44039	23.19	ppb	99
72) 1,2-Diphenylhydrazine	10.00	77	65744	23.23	ppb	97
74) 4-Bromophenyl-phenylether	10.52	248	15775	22.93	ppb	97
75) Hexachlorobenzene	10.59	284	17845	22.36	ppb	97
76) Pentachlorophenol	10.92	266	21112	51.89	ppb	98
77) Phenanthrene	11.23	178	88914	23.07	ppb	99
78) Anthracene	11.31	178	90228	23.54	ppb	99
79) Carbazole	11.60	167	83761	23.46	ppb	99
80) Di-n-butylphthalate	12.30	149	106389	24.75	ppb	99
81) Fluoranthene	13.24	202	96871	23.48	ppb	97
82) Octadecane	11.19	57	31171	24.79	ppb	99
84) Pyrene	13.63	202	102758	23.14	ppb	98
86) Butylbenzylphthalate	15.00	149	45107	24.77	ppb	98
87) Butyl stearate	15.23	56	23172	26.15	ppb	99
88) Benzo[a]anthracene	15.88	228	86232	23.17	ppb	100
89) 3,3'-Dichlorobenzidine	15.91	252	26415	25.86	ppb	99
90) Chrysene	15.95	228	81972	23.16	ppb	98
91) bis(2-Ethylhexyl)phthalate	16.17	149	60834	25.41	ppb	98
93) Di-n-octylphthalate	17.37	149	99148	21.97	ppb	99
94) Benzo[b]fluoranthene	17.82	252	90053	23.73	ppb	98
95) Benzo[k]fluoranthene	17.87	252	87327	22.15	ppb	98
96) Benzo[a]pyrene	18.36	252	80233	24.12	ppb	99
97) Indeno[1,2,3-cd]pyrene	20.08	276	77466	24.78	ppb	99
98) Dibenz(a,h)acridine	19.77	279	64666	25.06	ppb	100
99) Dibenz[a,h]anthracene	20.12	278	79640	23.86	ppb	98
100) 7,12-Dimethylbenz(a)anthra	17.84	256	37234	26.88	ppb	100
101) Benzo[g,h,i]perylene	20.44	276	81591	23.28	ppb	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 P88243.D MP3770.M Sat Aug 23 13:59:21 2014

Quantitation Report (QT Reviewed)

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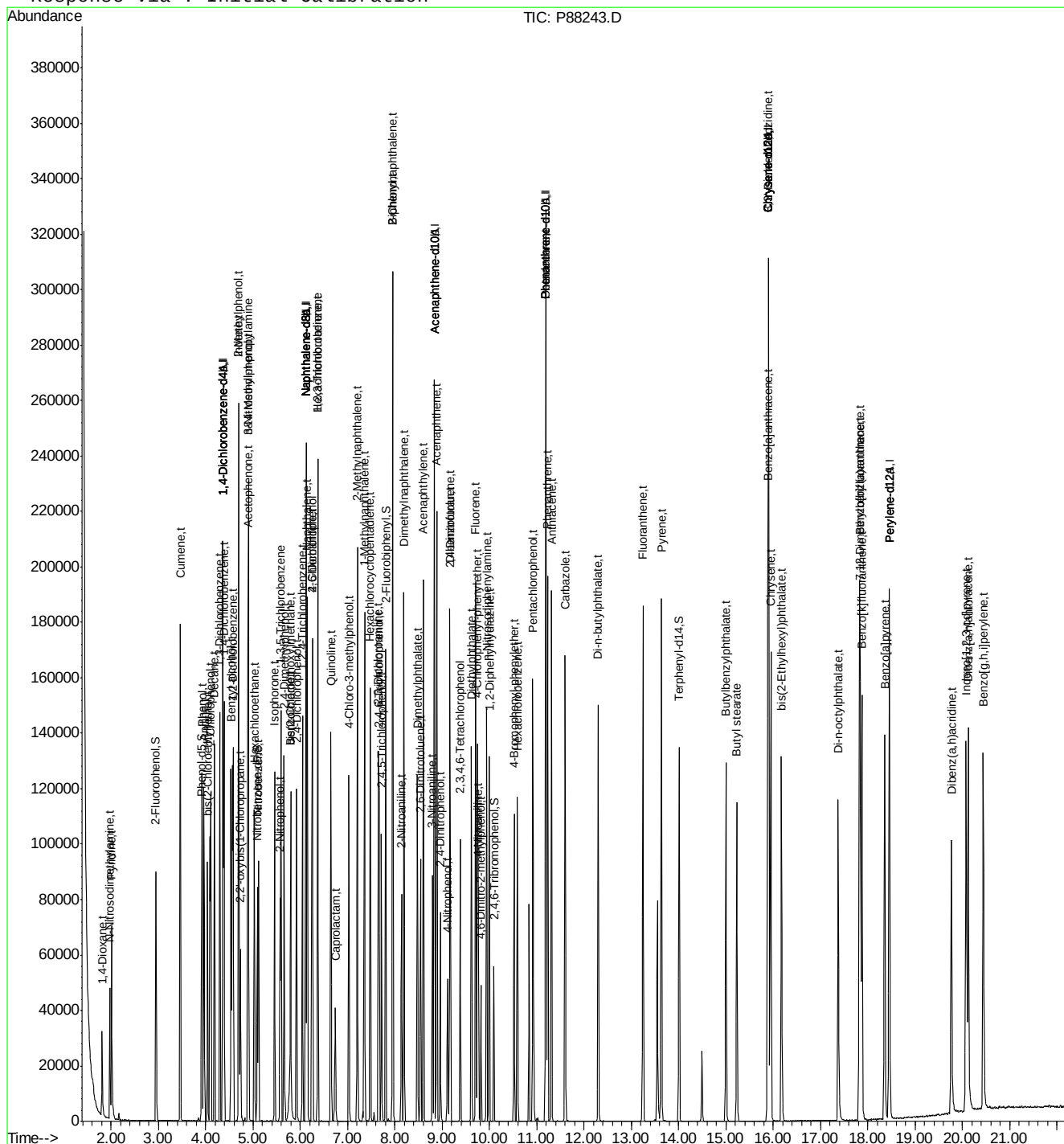
Data File   : C:\MSDCHEM\1\DATA\EP3770\P88243.D
Acq On      : 23 Aug 2014  12:05 am
Sample      : ic3770-25
Misc        : op76634,ep3771,1000,,1,1
MS Integration Params: rteint.p
Quant Time  : Aug 23 13:59 2014

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Vial: 13
Operator: kristis
Inst : MSP
Multiplr: 1.00

Quant Results File: MP3770.RES

Method : C:\MSDCHEM\1\METHODS\MP3770.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Sat Aug 23 10:46:47 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP3770\P88244.D
 Acq On : 23 Aug 2014 12:34 am
 Sample : ic3770-10
 Misc : op76634,ep3771,1000,,,1,1
 MS Integration Params: rteint.p
 Quant Time: Aug 23 00:56:35 2014

Vial: 14
 Operator: kristis
 Inst : MSP
 Multiplr: 1.00

Quant Results File: MP3770.RES

Quant Method : C:\MSDCHEM\1\METHODS\MP3770.M (RTE Integrator)
 Title : Semi Volatile Extractables by GC/MS
 Last Update : Fri Aug 22 14:34:10 2014
 Response via : Initial Calibration
 DataAcq Meth : MP3770

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.37	152	74852	40.00	ppb	0.00
24) Naphthalene-d8	6.12	136	268371	40.00	ppb	-0.01
47) Acenaphthene-d10	8.84	164	149434	40.00	ppb	-0.01
69) Phenanthrene-d10	11.20	188	226601	40.00	ppb	-0.01
83) Chrysene-d12	15.91	240	227727	40.00	ppb	-0.02
92) Perylene-d12	18.46	264	204377	40.00	ppb	-0.02
102) 1,4-Dichlorobenzene-d4A	4.37	152	74852	40.00	ppb	0.00
112) Naphthalene-d8A	6.12	136	268371	40.00	ppb	-0.01
120) Acenaphthene-d10A	8.84	164	149434	40.00	ppb	-0.01
131) Phenanthrene-d10A	11.20	188	226601	40.00	ppb	-0.01
146) Chrysene-d12A	15.91	240	227727	40.00	ppb	-0.02
154) Perylene-d12A	18.46	264	204377	40.00	ppb	-0.02
157) 1,4-Dichlorobenzene-d4b	4.37	152	74852	40.00	ppb	0.00
159) Phenanthrene-d10b	11.20	188	226601	40.00	ppb	-0.01
161) Chrysene-d12b	15.91	240	227727	40.00	ppb	-0.02
163) Naphthalene-d8b	6.12	136	268371	40.00	ppb	-0.01
165) Acenaphthene-d10b	8.84	164	149434	40.00	ppb	-0.01
167) Naphthalene-d8c	6.12	136	268371	40.00	ppb	-0.01
172) 1,4-Dichlorobenzene-d4a	4.37	152	74852	40.00	ppb	0.00
174) Chrysene-d12c	15.91	240	227727	40.00	ppb	-0.02
176) Chrysene-d12d	15.91	240	227727	40.00	ppb	-0.02
178) Naphthalene-d8a	6.12	136	268371	40.00	ppb	0.00
180) Naphthalene-d8b	6.12	136	268371	40.00	ppb	0.00
182) Perylene-d12a	18.46	264	204377	40.00	ppb	-0.02

System Monitoring Compounds

5) 2-Fluorophenol	2.95	112	31466	13.74	ppb	0.00
Spiked Amount	50.000		Recovery	=	27.48%	
8) Phenol-d5	3.91	99	39230	13.58	ppb	-0.02
Spiked Amount	50.000		Recovery	=	27.16%	
25) Nitrobenzene-d5	5.09	82	30216	12.67	ppb	-0.02
Spiked Amount	50.000		Recovery	=	25.34%	
51) 2-Fluorobiphenyl	7.81	172	58812	14.75	ppb	-0.02
Spiked Amount	50.000		Recovery	=	29.50%	
73) 2,4,6-Tribromophenol	10.09	330	6687	10.06	ppb	-0.02
Spiked Amount	50.000		Recovery	=	20.12%	
85) Terphenyl-d14	14.01	244	55452	11.83	ppb	-0.02
Spiked Amount	50.000		Recovery	=	23.66%	

Target Compounds

						Qvalue
2) 1,4-Dioxane	1.81	88	12993	11.85	ppb	98
3) Pyridine	2.00	79	34475	13.08	ppb	97
4) N-Nitrosodimethylamine	1.97	42	12175	12.43	ppb	97
6) Indene	4.70	116	50799	16.70	ppb	93
7) Cumene	3.46	105	77092	17.41	ppb	91
9) Phenol	3.93	94	43646	14.81	ppb	86
10) Aniline	3.97	93	51706	17.05	ppb	90
11) bis(2-Chloroethyl)ether	4.04	93	31883	14.24	ppb	97
12) 2-Chlorophenol	4.10	128	34596	16.27	ppb	96
13) Decane	4.18	43	25087	16.89	ppb	93

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

P88244.D MP3770.M Sat Aug 23 14:01:27 2014

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP3770\P88244.D

Vial: 14

Acq On : 23 Aug 2014 12:34 am

Operator: kristis

Sample : ic3770-10

Inst : MSP

Misc : op76634,ep3771,1000,,,1,1

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Aug 23 00:56:35 2014

Quant Results File: MP3770.RES

Quant Method : C:\MSDCHEM\1\METHODS\MP3770.M (RTE Integrator)

Title : Semi Volatile Extractables by GC/MS

Last Update : Fri Aug 22 14:34:10 2014

Response via : Initial Calibration

DataAcq Meth : MP3770

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
14) 1,3-Dichlorobenzene	4.30	146	37990	15.63	ppb	93
15) 1,4-Dichlorobenzene	4.39	146	35625	15.54	ppb	92
16) Benzyl alcohol	4.54	108	22140	14.25	ppb	99
17) 1,2-Dichlorobenzene	4.58	146	34550	16.60	ppb	93
18) Acetophenone	4.89	105	43269	14.72	ppb	98
19) 2-Methylphenol	4.69	108	27379	16.71	ppb	99
20) 2,2'-oxybis(1-Chloropropan	4.73	121	9676	13.47	ppb #	67
21) 3&4-Methylphenol	4.90	108	28561	14.56	ppb	94
22) n-Nitroso-di-n-propylamine	4.90	70	20217	20.61	ppb	97
23) Hexachloroethane	5.03	201	11690	13.87	ppb	93
26) Nitrobenzene	5.11	77	32945	13.99	ppb	96
27) Quinoline	6.65	129	60008	12.68	ppb	97
28) Isophorone	5.46	82	57260	13.33	ppb	96
29) 2-Nitrophenol	5.57	139	16599	12.27	ppb	86
30) 2,4-Dimethylphenol	5.66	107	26025	11.79	ppb	98
31) Benzoic acid	5.80	105	17083	8.51	ppb	99
32) bis(2-Chloroethoxy)methane	5.80	93	36249	13.63	ppb	95
33) 2,4-Dichlorophenol	5.92	162	25779	14.02	ppb	96
34) 2,6-Dichlorophenol	6.26	162	24344	13.82	ppb	99
35) 1,3,5-Trichlorobenzene	5.59	180	27614	15.77	ppb	97
36) 1,2,4-Trichlorobenzene	6.04	180	27738	14.54	ppb	97
37) 1,2,3-Trichlorobenzene	6.37	180	24715	15.94	ppb	99
38) Naphthalene	6.15	128	90985	16.98	ppb	91
39) 4-Chloroaniline	6.25	127	38915	16.48	ppb	96
40) 2,3-Dichloroaniline	7.65	161	30148	14.40	ppb	96
41) Caprolactam	6.74	55	10779	10.26	ppb	95
42) Hexachlorobutadiene	6.37	225	13132	14.27	ppb	98
43) 4-Chloro-3-methylphenol	7.03	107	26241	12.24	ppb	99
44) 2-Methylnaphthalene	7.21	141	56767	16.48	ppb	96
45) 1-Methylnaphthalene	7.36	142	59404	15.53	ppb	92
46) Dimethylnaphthalene	8.19	156	51108	15.57	ppb	97
48) Hexachlorocyclopentadiene	7.48	237	25973	25.31	ppb	98
49) 2,4,6-Trichlorophenol	7.67	196	16826	13.01	ppb	97
50) 2,4,5-Trichlorophenol	7.72	196	16967	12.32	ppb	97
52) 2-Chloronaphthalene	7.96	162	53816	15.78	ppb	96
53) Biphenyl	7.95	154	67740	17.66	ppb	95
54) 2-Nitroaniline	8.14	65	14584	10.77	ppb	97
55) Dimethylphthalate	8.47	163	60003	12.97	ppb	97
56) Acenaphthylene	8.60	152	93616	16.09	ppb	91
57) 2,6-Dinitrotoluene	8.54	165	12613	11.08	ppb	96
58) 3-Nitroaniline	8.79	138	16581	10.82	ppb	98
59) Acenaphthene	8.89	153	56214	14.91	ppb	96
60) 2,4-Dinitrophenol	8.96	184	10105	14.09	ppb	97
61) 4-Nitrophenol	9.11	109	6893	8.55	ppb	91
62) Dibenzofuran	9.16	168	75030	15.81	ppb	95
63) 2,4-Dinitrotoluene	9.17	165	17024	12.46	ppb	79
64) 2,3,4,6-Tetrachlorophenol	9.38	232	13730	11.73	ppb	98
65) Diethylphthalate	9.62	149	60476	13.78	ppb	93
66) Fluorene	9.71	166	63192	14.99	ppb	96

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

P88244.D MP3770.M Sat Aug 23 14:01:27 2014

Page 2

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP3770\P88244.D Vial: 14
 Acq On : 23 Aug 2014 12:34 am Operator: kristis
 Sample : ic3770-10 Inst : MSP
 Misc : op76634,ep3771,1000,,,1,1 Multiplr: 1.00
 MS Integration Params: rteint.p
 Quant Time: Aug 23 00:56:35 2014 Quant Results File: MP3770.RES

Quant Method : C:\MSDCHEM\1\METHODS\MP3770.M (RTE Integrator)
 Title : Semi Volatile Extractables by GC/MS
 Last Update : Fri Aug 22 14:34:10 2014
 Response via : Initial Calibration
 DataAcq Meth : MP3770

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
67) 4-Chlorophenyl-phenylether	9.75	204	26438	14.19	ppb	95
68) 4-Nitroaniline	9.76	138	16254	10.95	ppb	98
70) 4,6-Dinitro-2-methylphenol	9.82	198	7991	7.80	ppb	96
71) n-Nitrosodiphenylamine	9.94	169	41898	12.16	ppb	98
72) 1,2-Diphenylhydrazine	9.99	77	64510	13.71	ppb	90
74) 4-Bromophenyl-phenylether	10.52	248	15178	11.66	ppb	98
75) Hexachlorobenzene	10.59	284	17389	12.21	ppb	99
76) Pentachlorophenol	10.92	266	20018	21.69	ppb	97
77) Phenanthrene	11.23	178	83317	13.63	ppb	92
78) Anthracene	11.31	178	85842	13.66	ppb	92
79) Carbazole	11.60	167	80563	12.99	ppb	94
80) Di-n-butylphthalate	12.30	149	103247	13.41	ppb	93
81) Fluoranthene	13.24	202	94510	13.36	ppb	100
82) Octadecane	11.19	57	28581	13.06	ppb	97
84) Pyrene	13.63	202	100723	13.36	ppb	99
86) Butylbenzylphthalate	15.00	149	43631	10.50	ppb	96
87) Butyl stearate	15.23	56	22851	12.20	ppb	92
88) Benzo[a]anthracene	15.88	228	83993	11.84	ppb	95
89) 3,3'-Dichlorobenzidine	15.91	252	23642	9.83	ppb	96
90) Chrysene	15.95	228	77616	11.98	ppb	94
91) bis(2-Ethylhexyl)phthalate	16.17	149	58784	10.93	ppb	93
93) Di-n-octylphthalate	17.37	149	97543	13.40	ppb	94
94) Benzo[b]fluoranthene	17.82	252	85209m	13.38	ppb	
95) Benzo[k]fluoranthene	17.87	252	86792	17.39	ppb	92
96) Benzo[a]pyrene	18.36	252	76858	13.90	ppb	96
97) Indeno[1,2,3-cd]pyrene	20.08	276	74376	12.53	ppb	93
98) Dibenz(a,h)acridine	19.77	279	62299	12.96	ppb	95
99) Dibenz[a,h]anthracene	20.12	278	76920	13.91	ppb	94
100) 7,12-Dimethylbenz(a)anthra	17.84	256	26638	10.20	ppb	98
101) Benzo[g,h,i]perylene	20.45	276	78966	13.56	ppb	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 P88244.D MP3770.M Sat Aug 23 14:01:27 2014

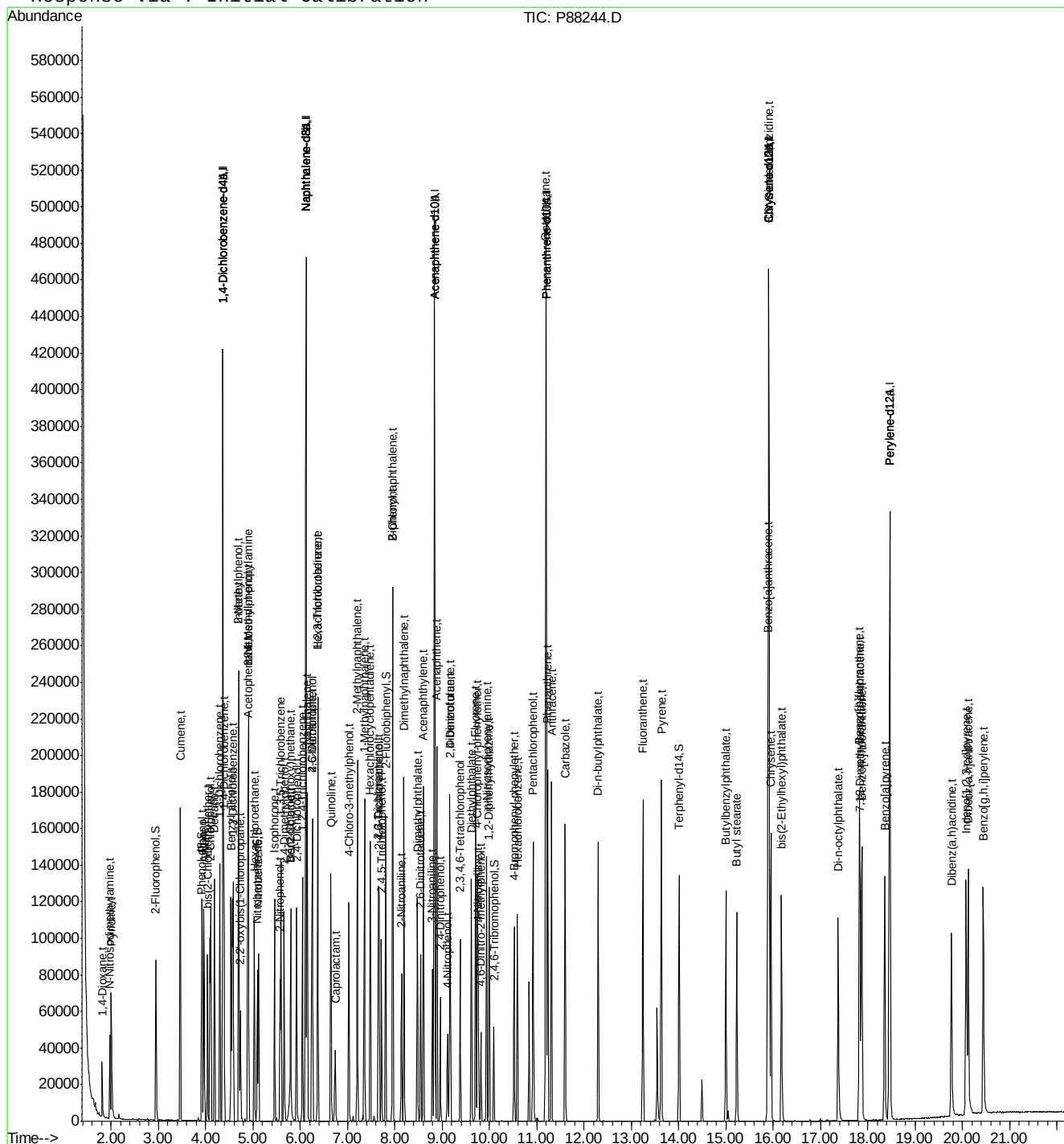
Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP3770\P88244.D
 Acq On : 23 Aug 2014 12:34 am
 Sample : ic3770-10
 Misc : op76634,ep3771,1000,,1,1
 MS Integration Params: rteint.p
 Quant Time: Aug 23 7:59 2014

Vial: 14
 Operator: kristis
 Inst : MSP
 Multiplr: 1.00

Quant Results File: MP3770.RES

Method : C:\MSDCHEM\1\METHODS\MP3770.M (RTE Integrator)
 Title : Semi Volatile Extractables by GC/MS
 Last Update : Sat Aug 23 14:01:15 2014
 Response via : Initial Calibration



Manual Integration Approval Summary

Sample Number: EP3771-IC3771

Method: SW846 8270D

Lab FileID: P88244.D

Analyst approved: 08/23/14 14:22 Kristi Schollenberger

Injection Time: 08/23/14 00:34

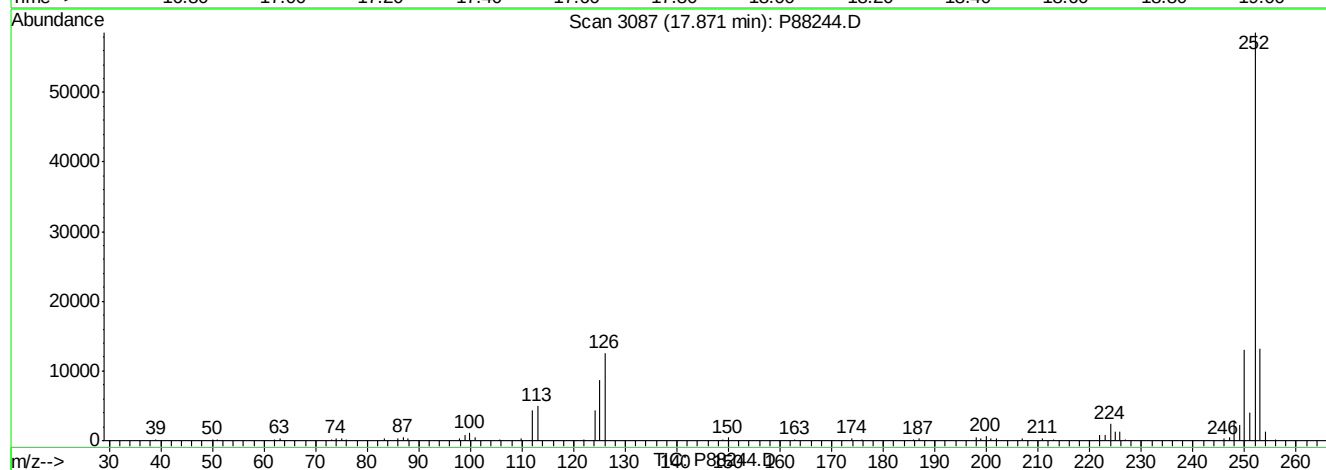
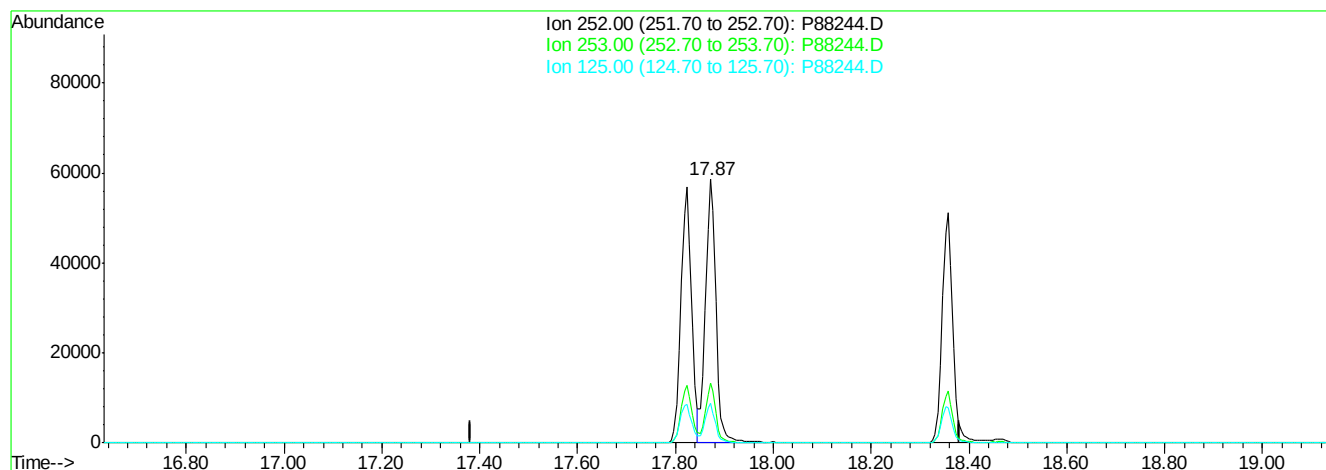
Supervisor approved: 08/25/14 11:00 Nina Pandya

Parameter	CAS	Sig#	R.T. (min.)	Reason
Benzo(b)fluoranthene	205-99-2		17.82	Overlapping peak

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EP3770\P88244.D Vial: 14
Acq On : 23 Aug 2014 12:34 am Operator: kristis
Sample : ic3770-10 Inst : MSP
Misc : op76634,ep3771,1000,,,1,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 23 0:56 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MP3770.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Aug 22 14:34:10 2014
Response via : Multiple Level Calibration



(94) Benzo[b]fluoranthene (l)

17.87min 13.63ppb

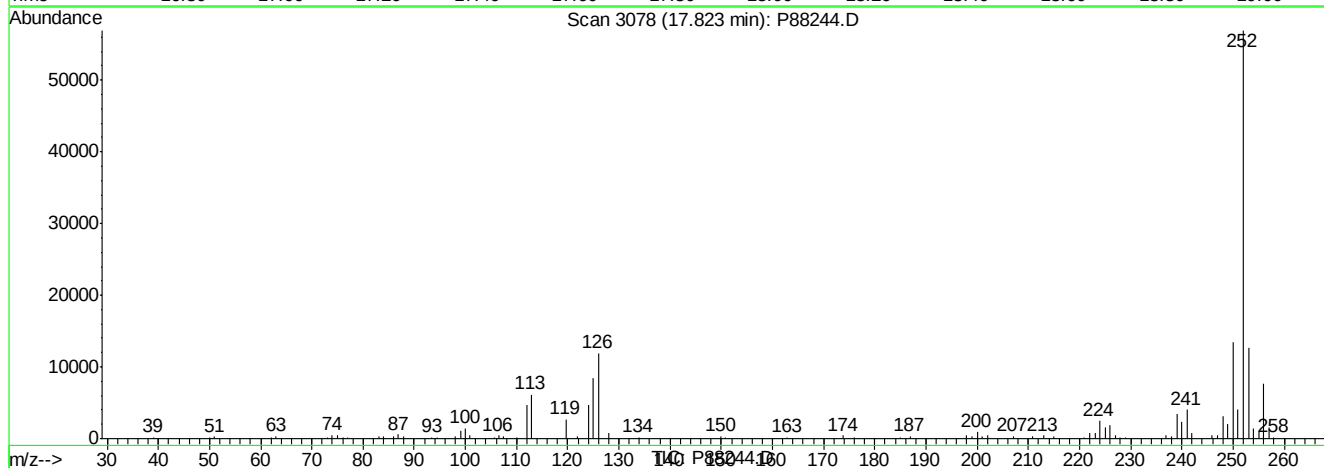
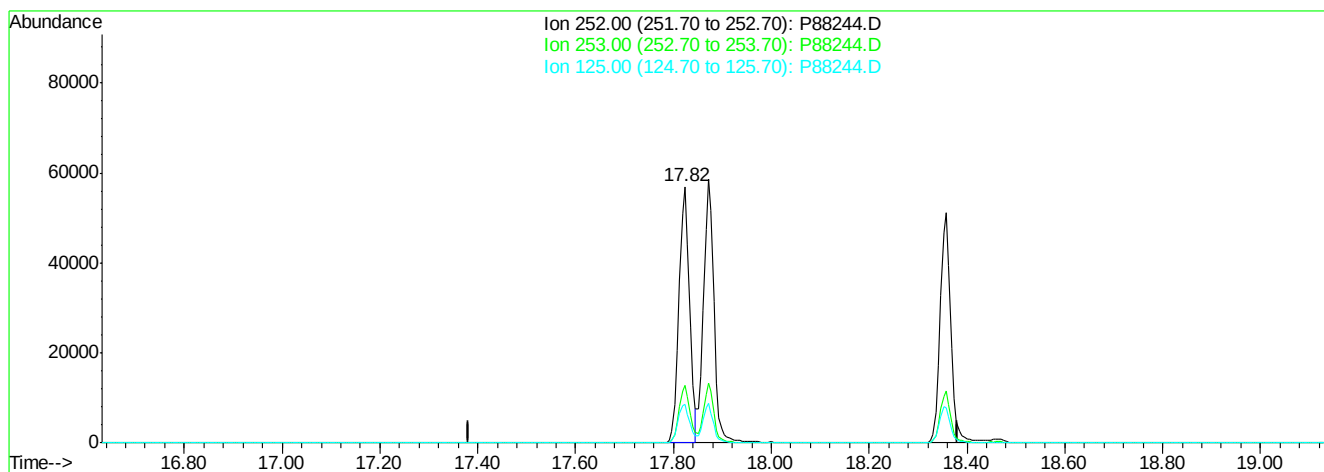
response 86792

Ion	Exp%	Act%
252.00	100	100
253.00	27.70	22.13
125.00	16.10	14.45
0.00	0.00	0.00

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EP3770\P88244.D Vial: 14
Acq On : 23 Aug 2014 12:34 am Operator: kristis
Sample : ic3770-10 Inst : MSP
Misc : op76634,ep3771,1000,,,1,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 23 7:59 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MP3770.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Sat Aug 23 14:01:15 2014
Response via : Multiple Level Calibration



(94) Benzo[b]fluoranthene (l)

17.82min 13.38ppb m

response 85209

Ion	Exp%	Act%
252.00	100	100
253.00	27.70	22.36
125.00	16.10	14.84
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP3770\P88245.D
 Acq On : 23 Aug 2014 1:03 am
 Sample : ic3770-5
 Misc : op76634,ep3771,1000,,,1,1
 MS Integration Params: rteint.p
 Quant Time: Aug 23 01:25:37 2014

Vial: 15
 Operator: kristis
 Inst : MSP
 Multiplr: 1.00

Quant Results File: MP3770.RES

Quant Method : C:\MSDCHEM\1\METHODS\MP3770.M (RTE Integrator)
 Title : Semi Volatile Extractables by GC/MS
 Last Update : Fri Aug 22 14:34:10 2014
 Response via : Initial Calibration
 DataAcq Meth : MP3770

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.37	152	56322	40.00	ppb	0.00
24) Naphthalene-d8	6.12	136	205199	40.00	ppb	-0.01
47) Acenaphthene-d10	8.84	164	111571	40.00	ppb	-0.01
69) Phenanthrene-d10	11.19	188	173834	40.00	ppb	-0.02
83) Chrysene-d12	15.91	240	171243	40.00	ppb	-0.03
92) Perylene-d12	18.46	264	149643	40.00	ppb	-0.02
102) 1,4-Dichlorobenzene-d4A	4.37	152	56322	40.00	ppb	0.00
112) Naphthalene-d8A	6.12	136	205199	40.00	ppb	-0.01
120) Acenaphthene-d10A	8.84	164	111571	40.00	ppb	-0.01
131) Phenanthrene-d10A	11.19	188	173834	40.00	ppb	-0.02
146) Chrysene-d12A	15.91	240	171243	40.00	ppb	-0.03
154) Perylene-d12A	18.46	264	149643	40.00	ppb	-0.02
157) 1,4-Dichlorobenzene-d4b	4.37	152	56322	40.00	ppb	0.00
159) Phenanthrene-d10b	11.19	188	173834	40.00	ppb	-0.02
161) Chrysene-d12b	15.91	240	171243	40.00	ppb	-0.03
163) Naphthalene-d8b	6.12	136	205199	40.00	ppb	-0.01
165) Acenaphthene-d10b	8.84	164	111571	40.00	ppb	-0.01
167) Naphthalene-d8c	6.12	136	205199	40.00	ppb	-0.01
172) 1,4-Dichlorobenzene-d4a	4.37	152	56322	40.00	ppb	0.00
174) Chrysene-d12c	15.91	240	171243	40.00	ppb	-0.03
176) Chrysene-d12d	15.91	240	171243	40.00	ppb	-0.03
178) Naphthalene-d8a	6.12	136	205199	40.00	ppb	0.00
180) Naphthalene-d8b	6.12	136	205199	40.00	ppb	0.00
182) Perylene-d12a	18.46	264	149643	40.00	ppb	-0.02

System Monitoring Compounds

5) 2-Fluorophenol	2.95	112	10130	5.88	ppb	0.00
Spiked Amount	50.000		Recovery	=	11.76%	
8) Phenol-d5	3.91	99	12310	5.66	ppb	-0.02
Spiked Amount	50.000		Recovery	=	11.32%	
25) Nitrobenzene-d5	5.09	82	9786	5.37	ppb	-0.02
Spiked Amount	50.000		Recovery	=	10.74%	
51) 2-Fluorobiphenyl	7.81	172	19938	6.70	ppb	-0.02
Spiked Amount	50.000		Recovery	=	13.40%	
73) 2,4,6-Tribromophenol	10.09	330	1844	3.62	ppb	-0.03
Spiked Amount	50.000		Recovery	=	7.24%	
85) Terphenyl-d14	14.01	244	17820	5.06	ppb	-0.02
Spiked Amount	50.000		Recovery	=	10.12%	

Target Compounds

						Qvalue
2) 1,4-Dioxane	1.81	88	4159	5.04	ppb	# 88
3) Pyridine	2.00	79	11321	5.71	ppb	98
4) N-Nitrosodimethylamine	1.97	42	3897	5.29	ppb	94
6) Indene	4.70	116	17699	7.73	ppb	94
7) Cumene	3.46	105	26067	7.82	ppb	91
9) Phenol	3.93	94	14291	6.45	ppb	84
10) Aniline	3.96	93	17918	7.85	ppb	73
11) bis(2-Chloroethyl)ether	4.04	93	10761	6.39	ppb	98
12) 2-Chlorophenol	4.10	128	11737	7.34	ppb	92
13) Decane	4.18	43	8882	7.95	ppb	90

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

P88245.D MP3770.M Sat Aug 23 14:01:42 2014

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP3770\P88245.D

Vial: 15

Acq On : 23 Aug 2014 1:03 am

Operator: kristis

Sample : ic3770-5

Inst : MSP

Misc : op76634,ep3771,1000,,,1,1

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Aug 23 01:25:37 2014

Quant Results File: MP3770.RES

Quant Method : C:\MSDCHEM\1\METHODS\MP3770.M (RTE Integrator)

Title : Semi Volatile Extractables by GC/MS

Last Update : Fri Aug 22 14:34:10 2014

Response via : Initial Calibration

DataAcq Meth : MP3770

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
14) 1,3-Dichlorobenzene	4.30	146	13248	7.24	ppb	95
15) 1,4-Dichlorobenzene	4.39	146	12598	7.30	ppb	91
16) Benzyl alcohol	4.54	108	7003	5.99	ppb	95
17) 1,2-Dichlorobenzene	4.58	146	12195	7.79	ppb	91
18) Acetophenone	4.88	105	14417	6.52	ppb	97
19) 2-Methylphenol	4.69	108	9361	7.59	ppb	99
20) 2,2'-oxybis(1-Chloropropan	4.73	121	3229	5.97	ppb #	68
21) 3&4-Methylphenol	4.90	108	9448	6.40	ppb	95
22) n-Nitroso-di-n-propylamine	4.90	70	6952	9.42	ppb	98
23) Hexachloroethane	5.03	201	3703	5.84	ppb	90
26) Nitrobenzene	5.11	77	10788	5.99	ppb	96
27) Quinoline	6.64	129	19187	5.30	ppb	98
28) Isophorone	5.46	82	18923	5.76	ppb	97
29) 2-Nitrophenol	5.57	139	4722	4.56	ppb	78
30) 2,4-Dimethylphenol	5.65	107	8197	4.86	ppb	99
31) Benzoic acid	5.75	105	3503	2.28	ppb	96
32) bis(2-Chloroethoxy)methane	5.79	93	12123	5.96	ppb	95
33) 2,4-Dichlorophenol	5.92	162	7826	5.57	ppb	97
34) 2,6-Dichlorophenol	6.25	162	7862	5.84	ppb	99
35) 1,3,5-Trichlorobenzene	5.59	180	9599	7.17	ppb	96
36) 1,2,4-Trichlorobenzene	6.04	180	9466	6.49	ppb	95
37) 1,2,3-Trichlorobenzene	6.37	180	8667	7.31	ppb	98
38) Naphthalene	6.15	128	32018	7.81	ppb	91
39) 4-Chloroaniline	6.24	127	12448	6.90	ppb	97
40) 2,3-Dichloroaniline	7.65	161	9753	6.09	ppb	95
41) Caprolactam	6.72	55	3100	3.86	ppb	97
42) Hexachlorobutadiene	6.37	225	4669	6.64	ppb	97
43) 4-Chloro-3-methylphenol	7.02	107	7792	4.75	ppb	97
44) 2-Methylnaphthalene	7.20	141	18996	7.21	ppb	94
45) 1-Methylnaphthalene	7.35	142	20136	6.89	ppb	94
46) Dimethylnaphthalene	8.19	156	17216	6.86	ppb	97
48) Hexachlorocyclopentadiene	7.48	237	7418	9.68	ppb	94
49) 2,4,6-Trichlorophenol	7.66	196	5257	5.44	ppb	93
50) 2,4,5-Trichlorophenol	7.72	196	4980	4.84	ppb	93
52) 2-Chloronaphthalene	7.96	162	18835	7.40	ppb	93
53) Biphenyl	7.95	154	23803	8.31	ppb	96
54) 2-Nitroaniline	8.14	65	3993	3.95	ppb	95
55) Dimethylphthalate	8.47	163	19609	5.68	ppb	97
56) Acenaphthylene	8.60	152	31467	7.25	ppb	92
57) 2,6-Dinitrotoluene	8.54	165	3617	4.25	ppb	98
58) 3-Nitroaniline	8.79	138	4346	3.80	ppb	92
59) Acenaphthene	8.89	153	19478	6.92	ppb	94
60) 2,4-Dinitrophenol	8.96	184	1421	2.65	ppb	91
61) 4-Nitrophenol	9.11	109	1443	2.40	ppb #	74
62) Dibenzofuran	9.16	168	25953	7.32	ppb	95
63) 2,4-Dinitrotoluene	9.17	165	4966	4.87	ppb	91
64) 2,3,4,6-Tetrachlorophenol	9.38	232	3867	4.42	ppb	100
65) Diethylphthalate	9.61	149	19384	5.92	ppb	94
66) Fluorene	9.70	166	21351	6.78	ppb	95

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

P88245.D MP3770.M Sat Aug 23 14:01:42 2014

Page 2

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP3770\P88245.D Vial: 15
 Acq On : 23 Aug 2014 1:03 am Operator: kristis
 Sample : ic3770-5 Inst : MSP
 Misc : op76634,ep3771,1000,,,1,1 Multiplr: 1.00
 MS Integration Params: rteint.p
 Quant Time: Aug 23 01:25:37 2014 Quant Results File: MP3770.RES

Quant Method : C:\MSDCHEM\1\METHODS\MP3770.M (RTE Integrator)
 Title : Semi Volatile Extractables by GC/MS
 Last Update : Fri Aug 22 14:34:10 2014
 Response via : Initial Calibration
 DataAcq Meth : MP3770

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
67) 4-Chlorophenyl-phenylether	9.75	204	9027	6.49	ppb	97
68) 4-Nitroaniline	9.76	138	4507	4.07	ppb	95
70) 4,6-Dinitro-2-methylphenol	9.82	198	1343	1.71	ppb	99
71) n-Nitrosodiphenylamine	9.93	169	14237	5.39	ppb	99
72) 1,2-Diphenylhydrazine	9.99	77	21191	5.87	ppb	92
74) 4-Bromophenyl-phenylether	10.52	248	4882	4.89	ppb	95
75) Hexachlorobenzene	10.59	284	5840	5.35	ppb	94
76) Pentachlorophenol	10.92	266	5438	7.68	ppb	97
77) Phenanthrene	11.23	178	29090	6.20	ppb	91
78) Anthracene	11.31	178	28804	5.98	ppb	91
79) Carbazole	11.60	167	26114	5.49	ppb	95
80) Di-n-butylphthalate	12.30	149	29813	5.05	ppb	92
81) Fluoranthene	13.24	202	30008	5.53	ppb	97
82) Octadecane	11.18	57	9223	5.49	ppb	98
84) Pyrene	13.63	202	33457	5.90	ppb	97
86) Butylbenzylphthalate	15.00	149	11078	3.54	ppb	98
87) Butyl stearate	15.23	56	5616	3.99	ppb	90
88) Benzo[a]anthracene	15.88	228	26500	4.97	ppb	95
89) 3,3'-Dichlorobenzidine	15.91	252	6289	3.48	ppb	94
90) Chrysene	15.94	228	26613	5.46	ppb	95
91) bis(2-Ethylhexyl)phthalate	16.17	149	14523	3.59	ppb	92
93) Di-n-octylphthalate	17.37	149	20613	3.87	ppb	94
94) Benzo[b]fluoranthene	17.82	252	25732m	5.52	ppb	
95) Benzo[k]fluoranthene	17.87	252	28889	7.91	ppb	92
96) Benzo[a]pyrene	18.35	252	22707	5.61	ppb	94
97) Indeno[1,2,3-cd]pyrene	20.07	276	20251	4.66	ppb	94
98) Dibenz(a,h)acridine	19.76	279	16542	4.70	ppb	96
99) Dibenz[a,h]anthracene	20.12	278	22953	5.67	ppb	94
100) 7,12-Dimethylbenz(a)anthra	17.83	256	5860	3.06	ppb	99
101) Benzo[g,h,i]perylene	20.44	276	23917	5.61	ppb	95

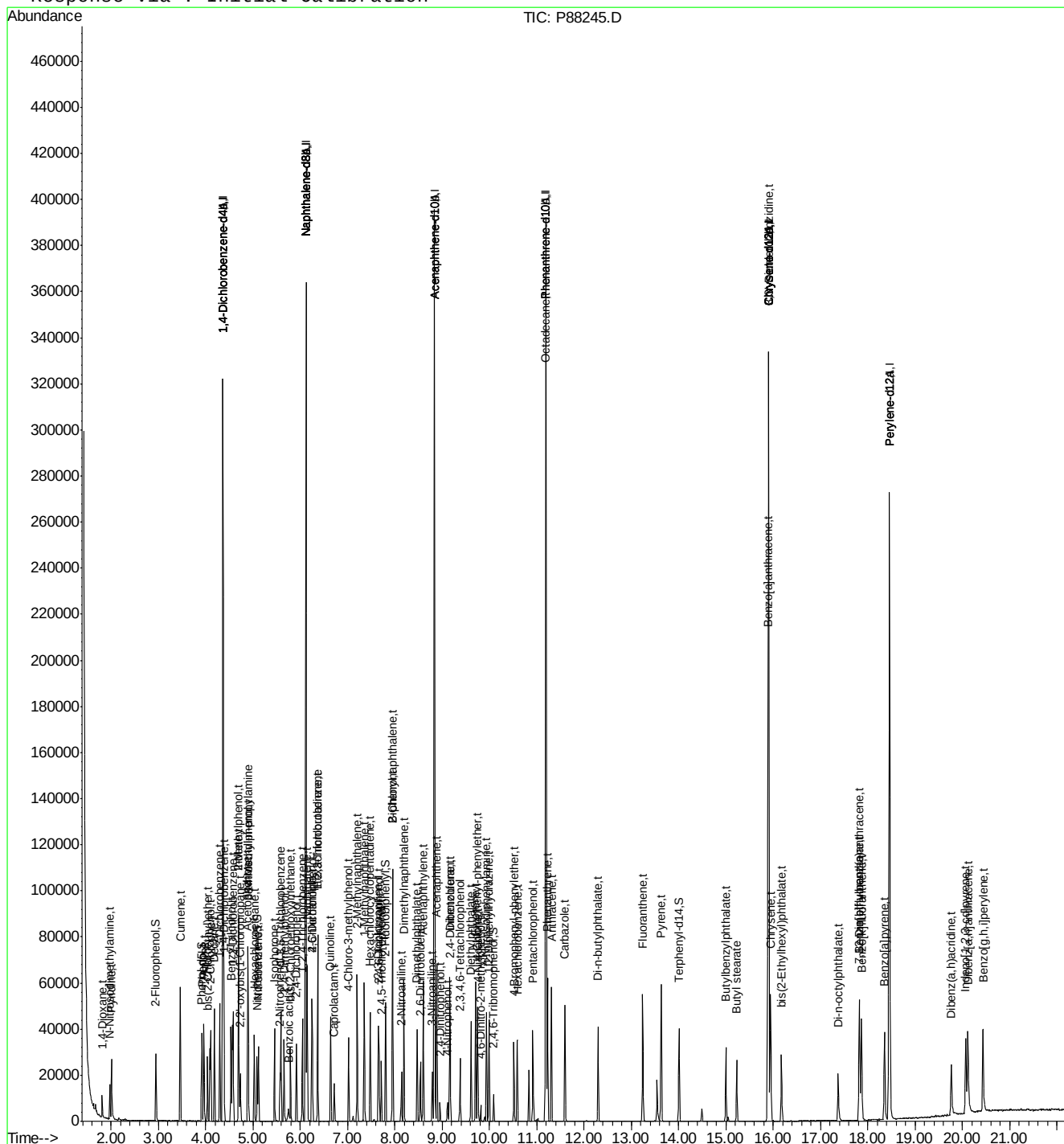
(#) = qualifier out of range (m) = manual integration (+) = signals summed
 P88245.D MP3770.M Sat Aug 23 14:01:42 2014

(QT Reviewed)

Vial: 15
Operator: kristis
Inst : MSP
Multiplr: 1.00

Quant Results File: MP3770.RES

Method : C:\MSDCHEM\1\METHODS\MP3770.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Sat Aug 23 14:01:15 2014
Response via : Initial Calibration



Manual Integration Approval Summary

Sample Number: EP3771-IC3771

Method: SW846 8270D

Lab FileID: P88245.D

Analyst approved: 08/23/14 14:22 Kristi Schollenberger

Injection Time: 08/23/14 01:03

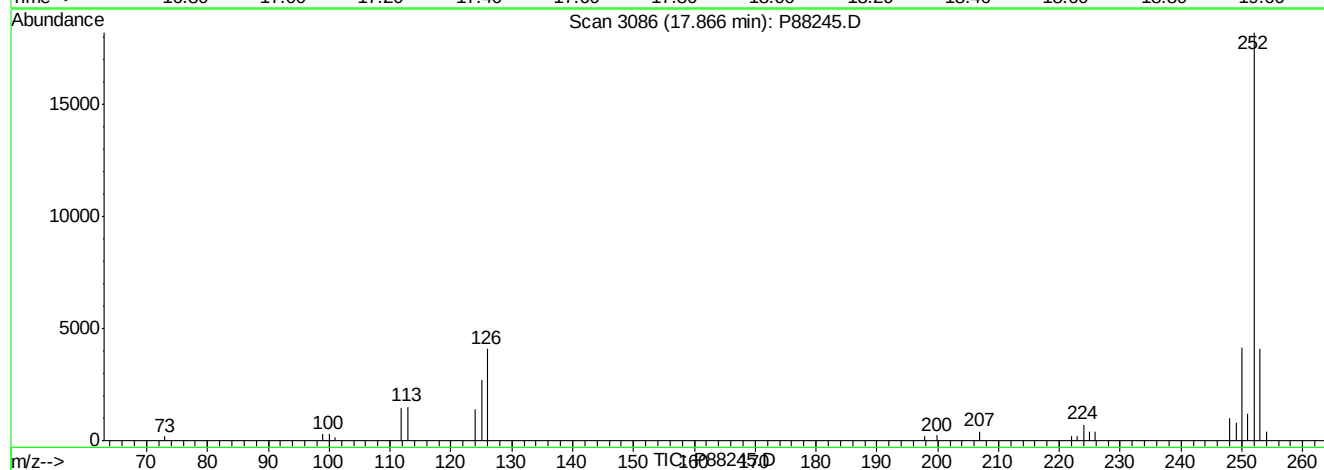
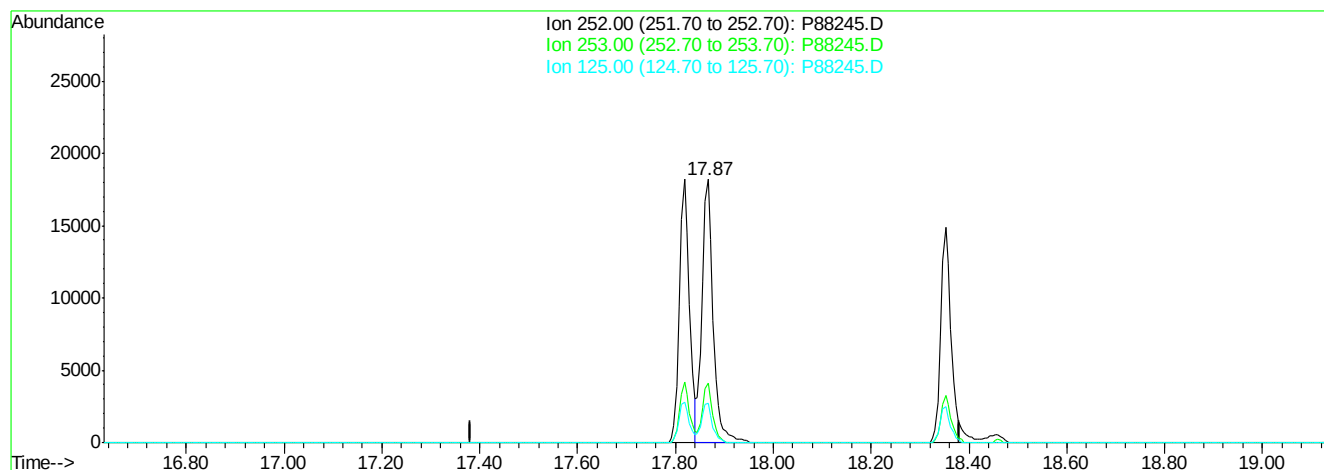
Supervisor approved: 08/25/14 11:00 Nina Pandya

Parameter	CAS	Sig#	R.T. (min.)	Reason
Benzo(b)fluoranthene	205-99-2		17.82	Overlapping peak

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EP3770\P88245.D Vial: 15
Acq On : 23 Aug 2014 1:03 am Operator: kristis
Sample : ic3770-5 Inst : MSP
Misc : op76634,ep3771,1000,,,1,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 23 1:25 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MP3770.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Aug 22 14:34:10 2014
Response via : Multiple Level Calibration



(94) Benzo[b]fluoranthene (t)

17.87min 6.20ppb

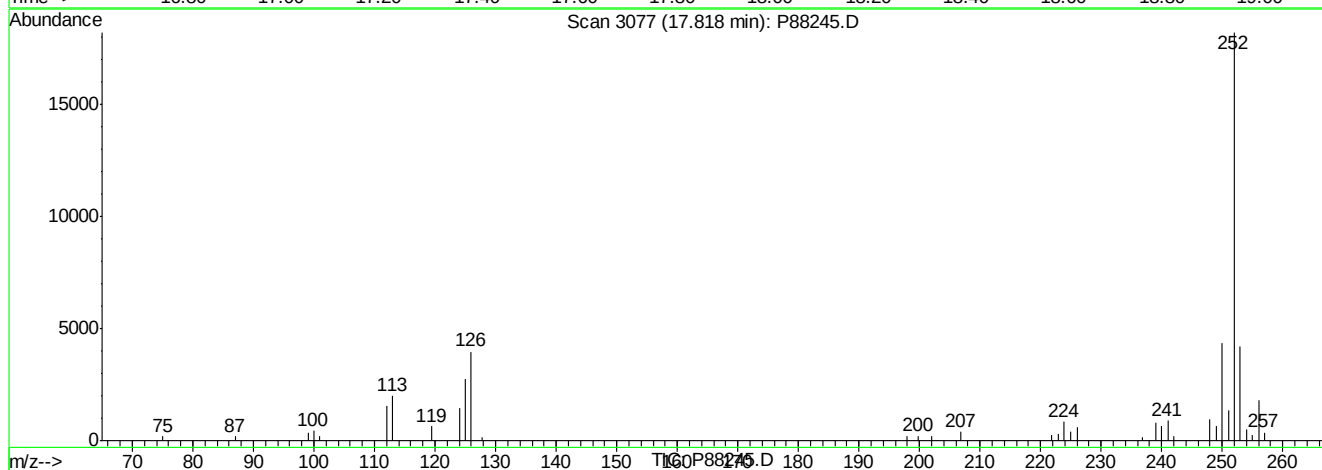
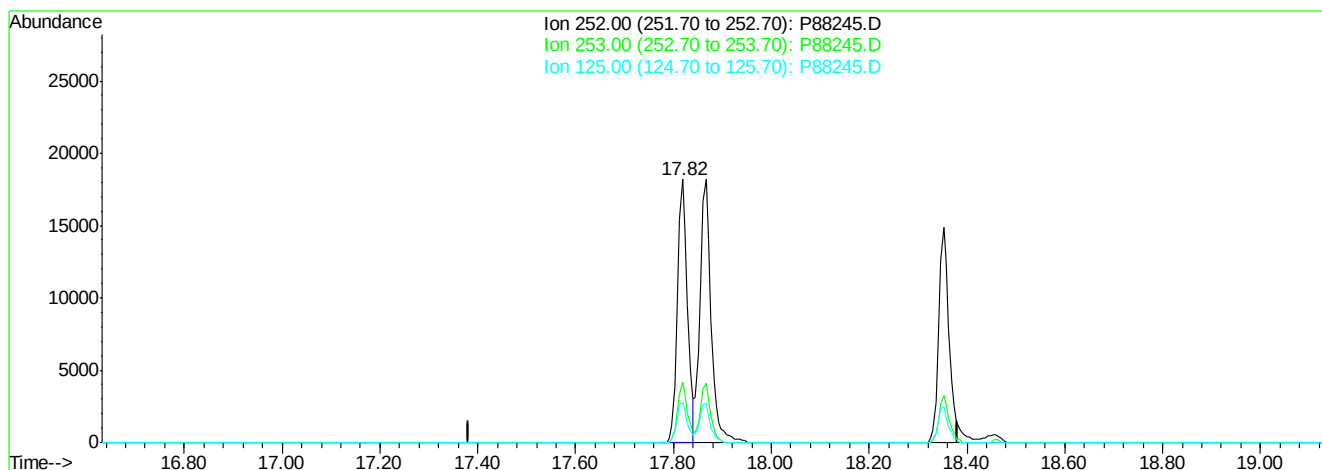
response 28889

Ion	Exp%	Act%
252.00	100	100
253.00	27.70	22.25
125.00	16.10	14.64
0.00	0.00	0.00

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EP3770\P88245.D Vial: 15
Acq On : 23 Aug 2014 1:03 am Operator: kristis
Sample : ic3770-5 Inst : MSP
Misc : op76634,ep3771,1000,,,1,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 23 8:00 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MP3770.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Sat Aug 23 14:01:15 2014
Response via : Multiple Level Calibration



(94) Benzo[b]fluoranthene (t)

17.82min 5.52ppb m

response 25732

Ion	Exp%	Act%
252.00	100	100
253.00	27.70	22.97
125.00	16.10	15.14
0.00	0.00	0.00

P88245.D MP3770.M Sat Aug 23 14:01:51 2014

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP3770\P88246.D Vial: 16
 Acq On : 23 Aug 2014 1:32 am Operator: kristis
 Sample : ic3770-2 Inst : MSP
 Misc : op76634,ep3771,1000,,,1,1 Multiplr: 1.00
 MS Integration Params: rteint.p
 Quant Time: Aug 23 08:24:40 2014 Quant Results File: MP3770.RES

Quant Method : C:\MSDCHEM\1\METHODS\MP3770.M (RTE Integrator)
 Title : Semi Volatile Extractables by GC/MS
 Last Update : Sat Aug 23 08:24:08 2014
 Response via : Initial Calibration
 DataAcq Meth : MP3770

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.37	152	65986	40.00	ppb	0.00
24) Naphthalene-d8	6.12	136	238377	40.00	ppb	0.00
47) Acenaphthene-d10	8.84	164	130253	40.00	ppb	0.00
69) Phenanthrene-d10	11.20	188	203842	40.00	ppb	0.00
83) Chrysene-d12	15.91	240	201990	40.00	ppb	0.00
92) Perylene-d12	18.46	264	176646	40.00	ppb	0.00
102) 1,4-Dichlorobenzene-d4A	4.37	152	65986	40.00	ppb	0.00
112) Naphthalene-d8A	6.12	136	238377	40.00	ppb	0.00
120) Acenaphthene-d10A	8.84	164	130253	40.00	ppb	0.00
131) Phenanthrene-d10A	11.20	188	203842	40.00	ppb	0.00
146) Chrysene-d12A	15.91	240	201990	40.00	ppb	0.00
154) Perylene-d12A	18.46	264	176646	40.00	ppb	0.00
157) 1,4-Dichlorobenzene-d4b	4.37	152	65986	40.00	ppb	0.00
159) Phenanthrene-d10b	11.20	188	203842	40.00	ppb	0.00
161) Chrysene-d12b	15.91	240	201990	40.00	ppb	0.00
163) Naphthalene-d8b	6.12	136	238377	40.00	ppb	0.00
165) Acenaphthene-d10b	8.84	164	130253	40.00	ppb	0.00
167) Naphthalene-d8c	6.12	136	238377	40.00	ppb	0.00
172) 1,4-Dichlorobenzene-d4a	4.37	152	65986	40.00	ppb	0.00
174) Chrysene-d12c	15.91	240	201990	40.00	ppb	0.00
176) Chrysene-d12d	15.91	240	201990	40.00	ppb	0.00
178) Naphthalene-d8a	6.12	136	238377	40.00	ppb	0.00
180) Naphthalene-d8b	6.12	136	238377	40.00	ppb	0.00
182) Perylene-d12a	18.46	264	176646	40.00	ppb	-0.02

System Monitoring Compounds

5) 2-Fluorophenol	2.94	112	5681	2.24	ppb	0.00
Spiked Amount	50.000		Recovery	=	4.48%	
8) Phenol-d5	3.91	99	6995	2.23	ppb	0.00
Spiked Amount	50.000		Recovery	=	4.46%	
25) Nitrobenzene-d5	5.09	82	5323	2.22	ppb	0.00
Spiked Amount	50.000		Recovery	=	4.44%	
51) 2-Fluorobiphenyl	7.81	172	11468	2.54	ppb	0.00
Spiked Amount	50.000		Recovery	=	5.08%	
73) 2,4,6-Tribromophenol	10.09	330	883	1.69	ppb	-0.01
Spiked Amount	50.000		Recovery	=	3.38%	
85) Terphenyl-d14	14.01	244	10177	2.18	ppb	0.00
Spiked Amount	50.000		Recovery	=	4.36%	

Target Compounds

						Qvalue
2) 1,4-Dioxane	1.81	88	2383	2.22	ppb	96
3) Pyridine	2.00	79	6449	2.29	ppb	98
4) N-Nitrosodimethylamine	1.97	42	2234	2.25	ppb	98
6) Indene	4.70	116	10115	2.61	ppb	99
7) Cumene	3.46	105	15268	2.45	ppb	100
9) Phenol	3.93	94	8273	2.35	ppb	98
10) Aniline	3.96	93	10660	2.59	ppb	81
11) bis(2-Chloroethyl)ether	4.04	93	6251	2.40	ppb	97
12) 2-Chlorophenol	4.10	128	6805	2.47	ppb	98
13) Decane	4.18	43	5308	2.63	ppb	97

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

P88246.D MP3770.M Sat Aug 23 14:01:56 2014

Page 1

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP3770\P88246.D Vial: 16
 Acq On : 23 Aug 2014 1:32 am Operator: kristis
 Sample : ic3770-2 Inst : MSP
 Misc : op76634,ep3771,1000,,,1,1 Multiplr: 1.00
 MS Integration Params: rteint.p
 Quant Time: Aug 23 08:24:40 2014 Quant Results File: MP3770.RES

Quant Method : C:\MSDCHEM\1\METHODS\MP3770.M (RTE Integrator)
 Title : Semi Volatile Extractables by GC/MS
 Last Update : Sat Aug 23 08:24:08 2014
 Response via : Initial Calibration
 DataAcq Meth : MP3770

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
14) 1,3-Dichlorobenzene	4.30	146	7732	2.50	ppb	99
15) 1,4-Dichlorobenzene	4.39	146	7500	2.52	ppb	95
16) Benzyl alcohol	4.54	108	3826	2.22	ppb	98
17) 1,2-Dichlorobenzene	4.58	146	7178	2.46	ppb	96
18) Acetophenone	4.88	105	8223	2.37	ppb	97
19) 2-Methylphenol	4.69	108	5374	2.51	ppb	97
20) 2,2'-oxybis(1-Chloropropan	4.72	121	1934	2.46	ppb #	90
21) 3&4-Methylphenol	4.90	108	5132	2.27	ppb	96
22) n-Nitroso-di-n-propylamine	4.90	70	4000	2.69	ppb	98
23) Hexachloroethane	5.03	201	2151	2.34	ppb	97
26) Nitrobenzene	5.11	77	6275	2.39	ppb	97
27) Quinoline	6.64	129	10720	2.23	ppb	99
28) Isophorone	5.46	82	10567	2.30	ppb	99
29) 2-Nitrophenol	5.57	139	2292	1.85	ppb	75
30) 2,4-Dimethylphenol	5.65	107	4359	2.09	ppb	98
31) Benzoic acid	5.73	105	1257	0.79	ppb	95
32) bis(2-Chloroethoxy)methane	5.79	93	7074	2.40	ppb	97
33) 2,4-Dichlorophenol	5.92	162	4286	2.19	ppb	99
34) 2,6-Dichlorophenol	6.25	162	4368	2.28	ppb	98
35) 1,3,5-Trichlorobenzene	5.59	180	5667	2.43	ppb	96
36) 1,2,4-Trichlorobenzene	6.04	180	5669	2.42	ppb	97
37) 1,2,3-Trichlorobenzene	6.37	180	5134	2.46	ppb	98
38) Naphthalene	6.14	128	18679	2.42	ppb	99
39) 4-Chloroaniline	6.25	127	7197	2.43	ppb	98
40) 2,3-Dichloroaniline	7.65	161	5692	2.37	ppb	97
41) Caprolactam	6.71	55	1488	1.82	ppb	98
42) Hexachlorobutadiene	6.37	225	2794	2.48	ppb	98
43) 4-Chloro-3-methylphenol	7.02	107	4145	2.05	ppb	96
44) 2-Methylnaphthalene	7.20	141	10991	2.36	ppb	95
45) 1-Methylnaphthalene	7.35	142	11901	2.40	ppb	96
46) Dimethylnaphthalene	8.19	156	9681	2.39	ppb	97
48) Hexachlorocyclopentadiene	7.48	237	3755	3.89	ppb	98
49) 2,4,6-Trichlorophenol	7.66	196	2773	2.13	ppb	97
50) 2,4,5-Trichlorophenol	7.72	196	2664	2.11	ppb	97
52) 2-Chloronaphthalene	7.96	162	11213	2.61	ppb	98
53) Biphenyl	7.95	154	13706	2.13	ppb	99
54) 2-Nitroaniline	8.14	65	1687	1.61	ppb	90
55) Dimethylphthalate	8.47	163	11554	2.36	ppb	99
56) Acenaphthylene	8.60	152	17819	2.40	ppb	98
57) 2,6-Dinitrotoluene	8.54	165	1726	1.83	ppb	98
58) 3-Nitroaniline	8.79	138	2025	1.68	ppb	92
59) Acenaphthene	8.89	153	11327	2.45	ppb	98
60) 2,4-Dinitrophenol	8.95	184	403	0.78	ppb	68
61) 4-Nitrophenol	9.12	109	474	0.78	ppb	89
62) Dibenzofuran	9.16	168	15295	2.41	ppb	99
63) 2,4-Dinitrotoluene	9.17	165	2423	1.95	ppb	94
64) 2,3,4,6-Tetrachlorophenol	9.38	232	1956	1.92	ppb	99
65) Diethylphthalate	9.61	149	11195	2.32	ppb	98
66) Fluorene	9.70	166	12245	2.42	ppb	98

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

P88246.D MP3770.M Sat Aug 23 14:01:56 2014

Page 2

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP3770\P88246.D Vial: 16
 Acq On : 23 Aug 2014 1:32 am Operator: kristis
 Sample : ic3770-2 Inst : MSP
 Misc : op76634,ep3771,1000,,,1,1 Multiplr: 1.00
 MS Integration Params: rteint.p
 Quant Time: Aug 23 08:24:40 2014 Quant Results File: MP3770.RES

Quant Method : C:\MSDCHEM\1\METHODS\MP3770.M (RTE Integrator)
 Title : Semi Volatile Extractables by GC/MS
 Last Update : Sat Aug 23 08:24:08 2014
 Response via : Initial Calibration
 DataAcq Meth : MP3770

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
67) 4-Chlorophenyl-phenylether	9.75	204	5293	2.47	ppb	98
68) 4-Nitroaniline	9.76	138	1965	1.71	ppb	96
70) 4,6-Dinitro-2-methylphenol	9.82	198	510	0.66	ppb	88
71) n-Nitrosodiphenylamine	9.93	169	8087	2.29	ppb	99
72) 1,2-Diphenylhydrazine	9.99	77	12205	2.32	ppb	99
74) 4-Bromophenyl-phenylether	10.51	248	2844	2.22	ppb	95
75) Hexachlorobenzene	10.59	284	3504	2.36	ppb	97
76) Pentachlorophenol	10.92	266	2521	3.33	ppb	97
77) Phenanthrene	11.23	178	16974	2.36	ppb	98
78) Anthracene	11.31	178	16381	2.29	ppb	97
79) Carbazole	11.59	167	14660	2.20	ppb	99
80) Di-n-butylphthalate	12.30	149	15677	1.96	ppb	98
81) Fluoranthene	13.24	202	16573	2.16	ppb	96
82) Octadecane	11.18	57	5243	2.24	ppb	98
84) Pyrene	13.63	202	19279	2.29	ppb	99
86) Butylbenzylphthalate	15.00	149	5087	1.47	ppb	98
87) Butyl stearate	15.23	56	2464	1.47	ppb	94
88) Benzo[a]anthracene	15.88	228	14898	2.11	ppb	98
89) 3,3'-Dichlorobenzidine	15.90	252	2928	1.51	ppb	89
90) Chrysene	15.94	228	15481	2.31	ppb	99
91) bis(2-Ethylhexyl)phthalate	16.17	149	6385	1.41	ppb	96
93) Di-n-octylphthalate	17.37	149	7979	2.57	ppb	98
94) Benzo[b]fluoranthene	17.82	252	14288	2.21	ppb	98
95) Benzo[k]fluoranthene	17.87	252	15665	2.33	ppb	97
96) Benzo[a]pyrene	18.35	252	11634	2.05	ppb	95
97) Indeno[1,2,3-cd]pyrene	20.07	276	9572	1.80	ppb	96
98) Dibenz(a,h)acridine	19.76	279	7869	1.79	ppb	98
99) Dibenz[a,h]anthracene	20.11	278	12057	2.12	ppb	97
100) 7,12-Dimethylbenz(a)anthra	17.83	256	2169	0.91	ppb	98
101) Benzo[g,h,i]perylene	20.44	276	13013	2.18	ppb	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 P88246.D MP3770.M Sat Aug 23 14:01:56 2014

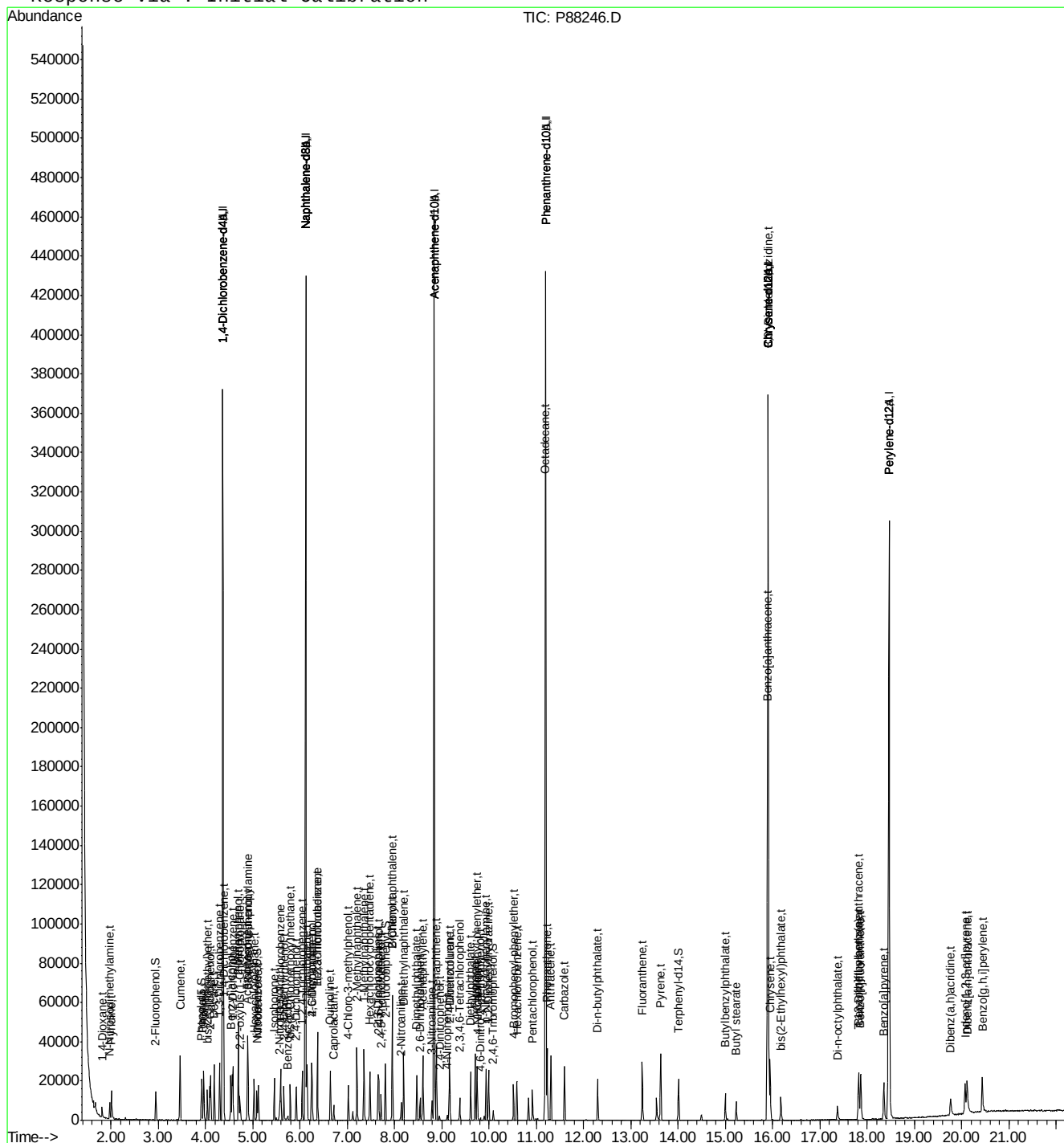
Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP3770\P88246.D
 Acq On : 23 Aug 2014 1:32 am
 Sample : ic3770-2
 Misc : op76634,ep3771,1000,,1,1
 MS Integration Params: rteint.p
 Quant Time: Aug 23 8:27 2014

Vial: 16
 Operator: kristis
 Inst : MSP
 Multiplr: 1.00

Quant Results File: MP3770.RES

Method : C:\MSDCHEM\1\METHODS\MP3770.M (RTE Integrator)
 Title : Semi Volatile Extractables by GC/MS
 Last Update : Sat Aug 23 14:01:15 2014
 Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP3770\P88247.D Vial: 17
 Acq On : 23 Aug 2014 2:01 am Operator: kristis
 Sample : ic3770-1 Inst : MSP
 Misc : op76634,ep3771,1000,,,1,1 Multiplr: 1.00
 MS Integration Params: rteint.p
 Quant Time: Aug 23 08:27:40 2014 Quant Results File: MP3770.RES

Quant Method : C:\MSDCHEM\1\METHODS\MP3770.M (RTE Integrator)
 Title : Semi Volatile Extractables by GC/MS
 Last Update : Sat Aug 23 08:27:25 2014
 Response via : Initial Calibration
 DataAcq Meth : MP3770

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.37	152	78348	40.00	ppb	0.00
24) Naphthalene-d8	6.12	136	281359	40.00	ppb	0.00
47) Acenaphthene-d10	8.84	164	154566	40.00	ppb	0.00
69) Phenanthrene-d10	11.20	188	242765	40.00	ppb	0.00
83) Chrysene-d12	15.91	240	238938	40.00	ppb	0.00
92) Perylene-d12	18.46	264	210147	40.00	ppb	0.00
102) 1,4-Dichlorobenzene-d4A	4.37	152	78348	40.00	ppb	0.00
112) Naphthalene-d8A	6.12	136	281359	40.00	ppb	0.00
120) Acenaphthene-d10A	8.84	164	154566	40.00	ppb	0.00
131) Phenanthrene-d10A	11.20	188	242765	40.00	ppb	0.00
146) Chrysene-d12A	15.91	240	238938	40.00	ppb	0.00
154) Perylene-d12A	18.46	264	210147	40.00	ppb	0.00
157) 1,4-Dichlorobenzene-d4b	4.37	152	78348	40.00	ppb	0.00
159) Phenanthrene-d10b	11.20	188	242765	40.00	ppb	0.00
161) Chrysene-d12b	15.91	240	238938	40.00	ppb	0.00
163) Naphthalene-d8b	6.12	136	281359	40.00	ppb	0.00
165) Acenaphthene-d10b	8.84	164	154566	40.00	ppb	0.00
167) Naphthalene-d8c	6.12	136	281359	40.00	ppb	0.00
172) 1,4-Dichlorobenzene-d4a	4.37	152	78348	40.00	ppb	0.00
174) Chrysene-d12c	15.91	240	238938	40.00	ppb	0.00
176) Chrysene-d12d	15.91	240	238938	40.00	ppb	0.00
178) Naphthalene-d8a	6.12	136	281359	40.00	ppb	0.00
180) Naphthalene-d8b	6.12	136	281359	40.00	ppb	0.00
182) Perylene-d12a	18.46	264	210147	40.00	ppb	-0.02

System Monitoring Compounds

5) 2-Fluorophenol	2.95	112	3500	1.16	ppb	0.00
Spiked Amount	50.000		Recovery	=	2.32%	
8) Phenol-d5	3.91	99	4291	1.15	ppb	0.00
Spiked Amount	50.000		Recovery	=	2.30%	
25) Nitrobenzene-d5	5.09	82	3215	1.14	ppb	0.00
Spiked Amount	50.000		Recovery	=	2.28%	
51) 2-Fluorobiphenyl	7.80	172	7617	1.42	ppb	0.00
Spiked Amount	50.000		Recovery	=	2.84%	
73) 2,4,6-Tribromophenol	10.09	330	530	0.85	ppb	-0.01
Spiked Amount	50.000		Recovery	=	1.70%	
85) Terphenyl-d14	14.01	244	6456	1.17	ppb	0.00
Spiked Amount	50.000		Recovery	=	2.34%	

Target Compounds

						Qvalue
2) 1,4-Dioxane	1.81	88	1520	1.19	ppb	89
3) Pyridine	2.01	79	3790	1.13	ppb	93
4) N-Nitrosodimethylamine	1.97	42	1332	1.13	ppb	92
6) Indene	4.70	116	6304	1.37	ppb	98
7) Cumene	3.46	105	9381	1.27	ppb	99
9) Phenol	3.93	94	4978	1.19	ppb	99
10) Aniline	3.96	93	6356	1.30	ppb	79
11) bis(2-Chloroethyl)ether	4.04	93	3983	1.29	ppb	96
12) 2-Chlorophenol	4.10	128	4107	1.26	ppb	98
13) Decane	4.18	43	3219	1.34	ppb	96

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

P88247.D MP3770.M Sat Aug 23 14:02:05 2014

Page 1

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP3770\P88247.D Vial: 17
 Acq On : 23 Aug 2014 2:01 am Operator: kristis
 Sample : ic3770-1 Inst : MSP
 Misc : op76634,ep3771,1000,,,1,1 Multiplr: 1.00
 MS Integration Params: rteint.p
 Quant Time: Aug 23 08:27:40 2014 Quant Results File: MP3770.RES

Quant Method : C:\MSDCHEM\1\METHODS\MP3770.M (RTE Integrator)
 Title : Semi Volatile Extractables by GC/MS
 Last Update : Sat Aug 23 08:27:25 2014
 Response via : Initial Calibration
 DataAcq Meth : MP3770

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
14) 1,3-Dichlorobenzene	4.30	146	4693	1.28	ppb	97
15) 1,4-Dichlorobenzene	4.39	146	4555	1.29	ppb	92
16) Benzyl alcohol	4.54	108	2272	1.11	ppb	94
17) 1,2-Dichlorobenzene	4.58	146	4309	1.24	ppb	99
18) Acetophenone	4.89	105	5131	1.24	ppb	93
19) 2-Methylphenol	4.69	108	3060	1.20	ppb	99
20) 2,2'-oxybis(1-Chloropropan	4.73	121	1155	1.24	ppb #	87
21) 3&4-Methylphenol	4.90	108	3279	1.22	ppb	94
22) n-Nitroso-di-n-propylamine	4.90	70	2329	1.64	ppb	95
23) Hexachloroethane	5.03	201	1279	1.17	ppb	97
26) Nitrobenzene	5.11	77	3683	1.19	ppb	95
27) Quinoline	6.64	129	6731	1.19	ppb	97
28) Isophorone	5.46	82	6346	1.17	ppb	97
29) 2-Nitrophenol	5.57	139	1355	0.93	ppb	75
30) 2,4-Dimethylphenol	5.65	107	2396	0.97	ppb	96
32) bis(2-Chloroethoxy)methane	5.79	93	4512	1.30	ppb	97
33) 2,4-Dichlorophenol	5.92	162	2548	1.10	ppb	94
34) 2,6-Dichlorophenol	6.25	162	2778	1.23	ppb	98
35) 1,3,5-Trichlorobenzene	5.59	180	3554	1.29	ppb	98
36) 1,2,4-Trichlorobenzene	6.04	180	3510	1.27	ppb	98
37) 1,2,3-Trichlorobenzene	6.37	180	3303	1.34	ppb	99
38) Naphthalene	6.15	128	11506	1.26	ppb	99
39) 4-Chloroaniline	6.24	127	4271	1.22	ppb	95
40) 2,3-Dichloroaniline	7.65	161	3597	1.27	ppb	97
41) Caprolactam	6.71	55	831	0.86	ppb	82
42) Hexachlorobutadiene	6.37	225	1693	1.27	ppb	93
43) 4-Chloro-3-methylphenol	7.02	107	2327	0.98	ppb	96
44) 2-Methylnaphthalene	7.20	141	6859	1.25	ppb	96
45) 1-Methylnaphthalene	7.35	142	7429	1.27	ppb	95
46) Dimethylnaphthalene	8.19	156	6319	1.32	ppb	98
48) Hexachlorocyclopentadiene	7.48	237	2162	1.89	ppb	87
49) 2,4,6-Trichlorophenol	7.67	196	1717	1.11	ppb	93
50) 2,4,5-Trichlorophenol	7.72	196	1430	0.95	ppb	97
52) 2-Chloronaphthalene	7.96	162	7222	1.42	ppb	98
53) Biphenyl	7.95	154	8899	1.02	ppb	99
54) 2-Nitroaniline	8.14	65	865	0.69	ppb	94
55) Dimethylphthalate	8.47	163	7202	1.24	ppb	98
56) Acenaphthylene	8.60	152	11401	1.29	ppb	99
57) 2,6-Dinitrotoluene	8.54	165	886	0.79	ppb	93
58) 3-Nitroaniline	8.79	138	1065	0.74	ppb	87
59) Acenaphthene	8.89	153	7271	1.33	ppb	99
62) Dibenzofuran	9.16	168	9722	1.29	ppb	97
63) 2,4-Dinitrotoluene	9.17	165	1264	0.86	ppb	60
64) 2,3,4,6-Tetrachlorophenol	9.38	232	1107	0.92	ppb	90
65) Diethylphthalate	9.61	149	6878	1.20	ppb	99
66) Fluorene	9.70	166	7662	1.28	ppb	98
67) 4-Chlorophenyl-phenylether	9.75	204	3344	1.32	ppb	100
68) 4-Nitroaniline	9.76	138	911	0.67	ppb	89
70) 4,6-Dinitro-2-methylphenol	9.82	198	192	0.23	ppb #	34

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

P88247.D MP3770.M Sat Aug 23 14:02:05 2014

Page 2

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP3770\P88247.D Vial: 17
 Acq On : 23 Aug 2014 2:01 am Operator: kristis
 Sample : ic3770-1 Inst : MSP
 Misc : op76634,ep3771,1000,,,1,1 Multiplr: 1.00
 MS Integration Params: rteint.p
 Quant Time: Aug 23 08:27:40 2014 Quant Results File: MP3770.RES

Quant Method : C:\MSDCHEM\1\METHODS\MP3770.M (RTE Integrator)
 Title : Semi Volatile Extractables by GC/MS
 Last Update : Sat Aug 23 08:27:25 2014
 Response via : Initial Calibration
 DataAcq Meth : MP3770

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
71) n-Nitrosodiphenylamine	9.93	169	4903	1.16	ppb	96
72) 1,2-Diphenylhydrazine	9.99	77	7613	1.21	ppb	99
74) 4-Bromophenyl-phenylether	10.52	248	1810	1.19	ppb	98
75) Hexachlorobenzene	10.59	284	2269	1.28	ppb	96
76) Pentachlorophenol	10.92	266	1357	1.50	ppb	93
77) Phenanthrene	11.23	178	11170	1.31	ppb	98
78) Anthracene	11.31	178	10212	1.20	ppb	98
79) Carbazole	11.59	167	9055	1.14	ppb	99
80) Di-n-butylphthalate	12.30	149	9179	0.96	ppb	99
81) Fluoranthene	13.24	202	10381	1.13	ppb	99
82) Octadecane	11.18	57	3108	1.11	ppb	96
84) Pyrene	13.63	202	12078	1.21	ppb	97
86) Butylbenzylphthalate	15.00	149	2837	0.70	ppb	96
87) Butyl stearate	15.23	56	1316	0.66	ppb #	73
88) Benzo[a]anthracene	15.88	228	9636	1.16	ppb	96
89) 3,3'-Dichlorobenzidine	15.90	252	1522	0.66	ppb #	82
90) Chrysene	15.95	228	9727	1.23	ppb	98
91) bis(2-Ethylhexyl)phthalate	16.17	149	3084	0.57	ppb	92
93) Di-n-octylphthalate	17.37	149	3844	2.01	ppb	98
94) Benzo[b]fluoranthene	17.82	252	7902	1.03	ppb	95
95) Benzo[k]fluoranthene	17.86	252	9978	1.25	ppb	95
96) Benzo[a]pyrene	18.35	252	6914	1.02	ppb	96
97) Indeno[1,2,3-cd]pyrene	20.07	276	5587	0.88	ppb	96
98) Dibenz(a,h)acridine	19.76	279	4305	0.82	ppb	98
99) Dibenz[a,h]anthracene	20.12	278	7155	1.06	ppb	97
100) 7,12-Dimethylbenz(a)anthra	17.83	256	1510	0.53	ppb	96
101) Benzo[g,h,i]perylene	20.44	276	7799	1.10	ppb	95

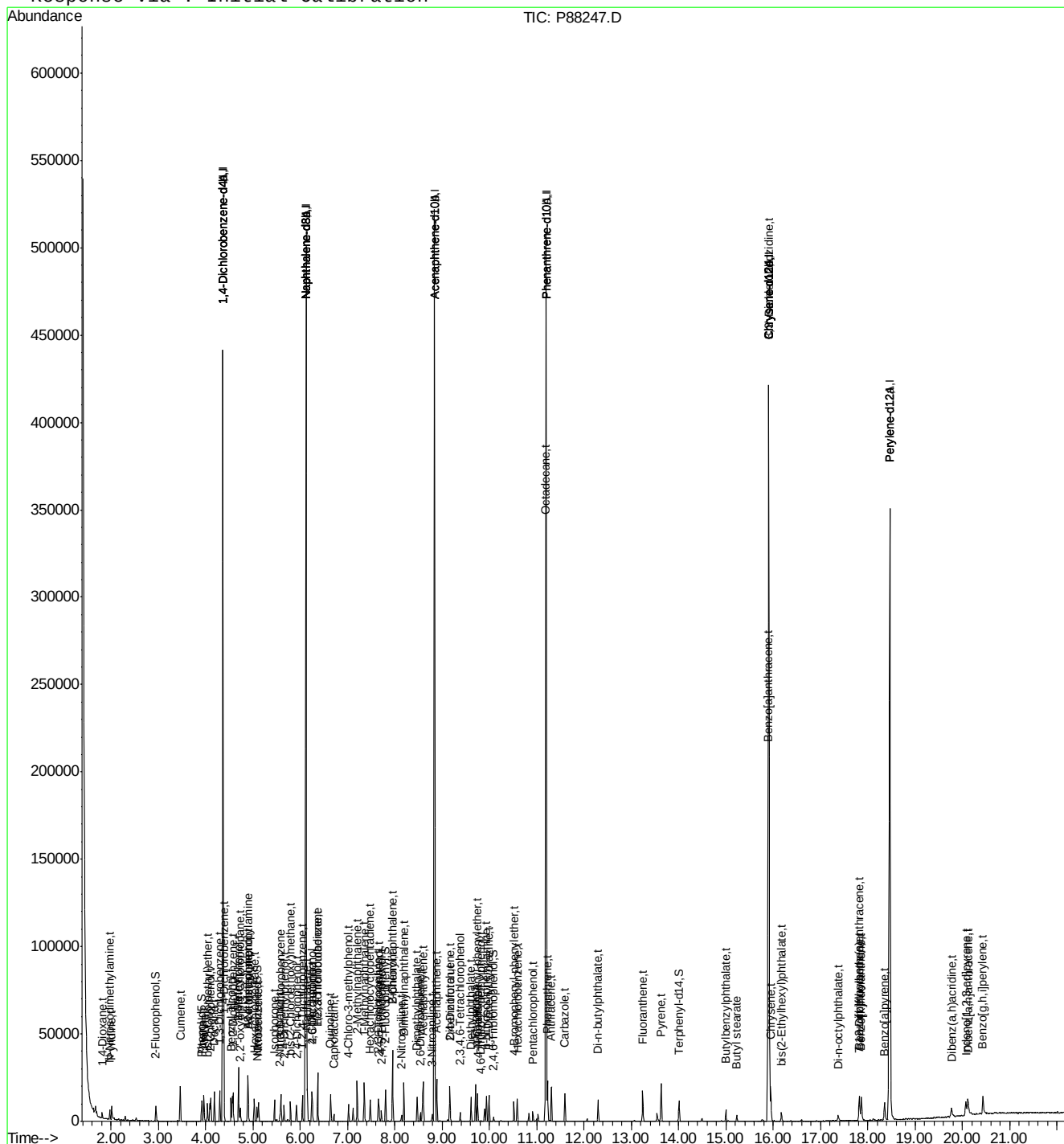
(#) = qualifier out of range (m) = manual integration (+) = signals summed
 P88247.D MP3770.M Sat Aug 23 14:02:05 2014

(QT Reviewed)

Vial: 17
Operator: kristis
Inst : MSP
Multiplr: 1.00

Quant Results File: MP3770.RES

Method : C:\MSDCHEM\1\METHODS\MP3770.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Sat Aug 23 14:01:15 2014
Response via : Initial Calibration



9.6.42

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP3770\P88250A.D Vial: 20
 Acq On : 23 Aug 2014 3:27 am Operator: kristis
 Sample : icv3770-50 Inst : MSP
 Misc : op76634,ep3771,1000,,,1,1 Multiplr: 1.00
 MS Integration Params: rteint.p
 Quant Time: Aug 23 09:43:32 2014 Quant Results File: MP3770.RES

Quant Method : C:\MSDCHEM\1\METHODS\MP3770.M (RTE Integrator)
 Title : Semi Volatile Extractables by GC/MS
 Last Update : Sat Aug 23 09:43:08 2014
 Response via : Initial Calibration
 DataAcq Meth : MP3770

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.37	152	53210	40.00	ppb	0.00
24) Naphthalene-d8	6.11	136	195697	40.00	ppb	0.00
47) Acenaphthene-d10	8.84	164	100496	40.00	ppb	0.00
69) Phenanthrene-d10	11.19	188	130560	40.00	ppb	0.00
83) Chrysene-d12	15.90	240	131743	40.00	ppb	-0.01
92) Perylene-d12	18.45	264	101540	40.00	ppb	0.00
102) 1,4-Dichlorobenzene-d4A	4.37	152	53210	40.00	ppb	0.00
112) Naphthalene-d8A	6.11	136	195697	40.00	ppb	0.00
120) Acenaphthene-d10A	8.84	164	100496	40.00	ppb	0.00
131) Phenanthrene-d10A	11.19	188	130560	40.00	ppb	0.00
146) Chrysene-d12A	15.90	240	131743	40.00	ppb	-0.01
154) Perylene-d12A	18.45	264	101540	40.00	ppb	0.00
157) 1,4-Dichlorobenzene-d4b	4.37	152	53210	40.00	ppb	0.00
159) Phenanthrene-d10b	11.19	188	130560	40.00	ppb	0.00
161) Chrysene-d12b	15.90	240	131743	40.00	ppb	0.00
163) Naphthalene-d8b	6.11	136	195697	40.00	ppb	0.00
165) Acenaphthene-d10b	8.84	164	100496	40.00	ppb	0.00
167) Naphthalene-d8c	6.11	136	195697	40.00	ppb	0.00
172) 1,4-Dichlorobenzene-d4a	4.37	152	53210	40.00	ppb	0.00
174) Chrysene-d12c	15.90	240	131743	40.00	ppb	-0.01
176) Chrysene-d12d	15.90	240	131743	40.00	ppb	-0.01
178) Naphthalene-d8a	6.11	136	195697	40.00	ppb	0.00
180) Naphthalene-d8b	6.11	136	195697	40.00	ppb	0.00
182) Perylene-d12a	18.45	264	101540	40.00	ppb	-0.03

System Monitoring Compounds

5) 2-Fluorophenol	0.00	112	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
8) Phenol-d5	0.00	99	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
25) Nitrobenzene-d5	0.00	82	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
51) 2-Fluorobiphenyl	0.00	172	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
73) 2,4,6-Tribromophenol	0.00	330	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
85) Terphenyl-d14	0.00	244	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	

Target Compounds

						Qvalue
158) Benzaldehyde	3.84	105	90009	53.02	ppb	100
160) Atrazine	10.85	200	42705	64.26	ppb	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 P88250A.D MP3770.M Sat Aug 23 14:06:30 2014

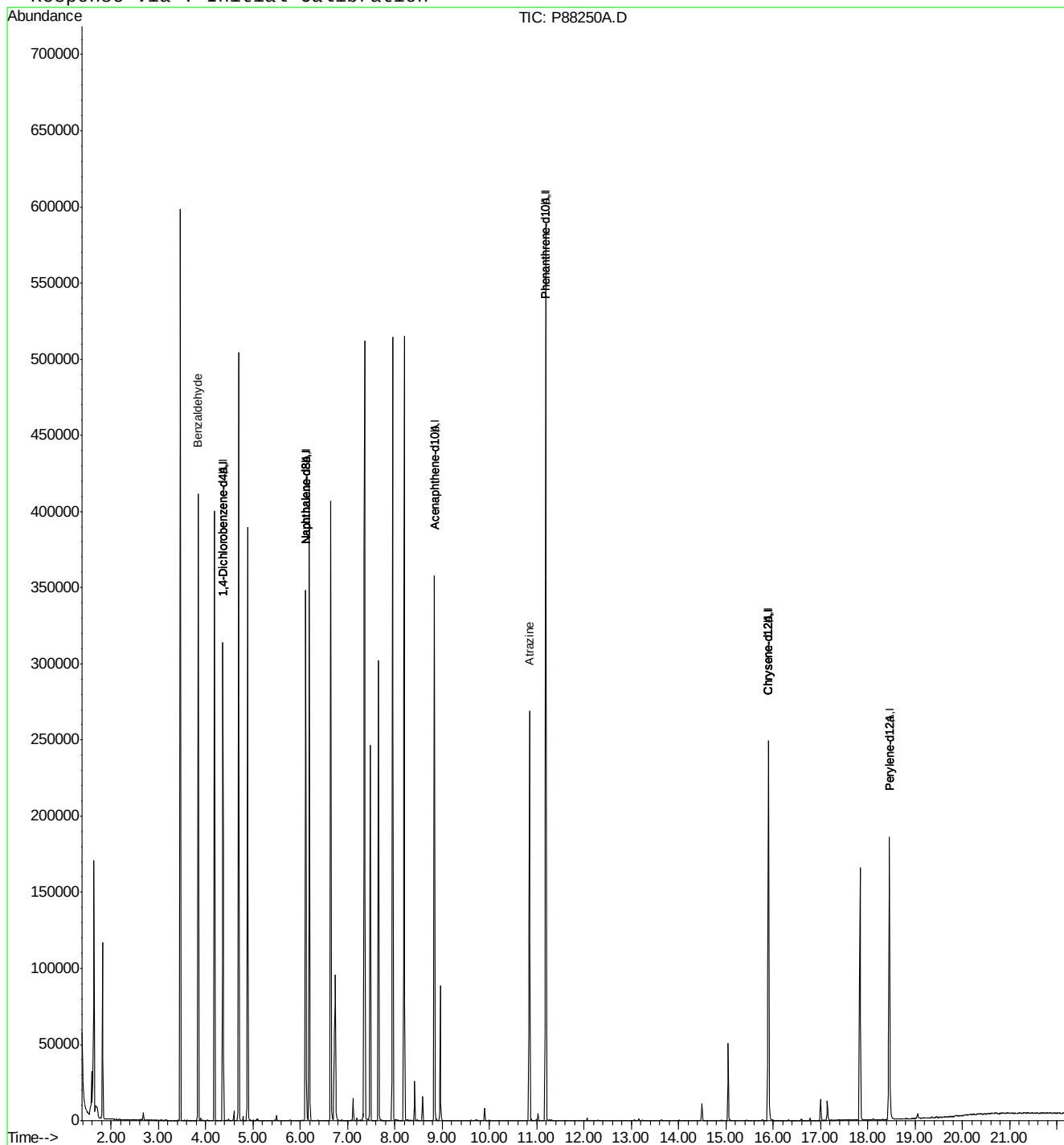
Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP3770\P88250A.D
Acq On : 23 Aug 2014 3:27 am
Sample : icv3770-50
Misc : op76634,ep3771,1000,,,1,1
MS Integration Params: rteint.p
Quant Time: Aug 23 14:06 2014

Vial: 20
Operator: kristis
Inst : MSP
Multiplr: 1.00

Quant Results File: MP3770.RES

Method : C:\MSDCHEM\1\METHODS\MP3770.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Sat Aug 23 14:01:15 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP3770\P88250.D Vial: 20
 Acq On : 23 Aug 2014 3:27 am Operator: kristis
 Sample : icv3771-50 Inst : MSP
 Misc : op76634,ep3771,1000,,,1,1 Multiplr: 1.00
 MS Integration Params: rteint.p
 Quant Time: Aug 23 09:43:32 2014 Quant Results File: MP3770.RES

Quant Method : C:\MSDCHEM\1\METHODS\MP3770.M (RTE Integrator)
 Title : Semi Volatile Extractables by GC/MS
 Last Update : Sat Aug 23 09:43:08 2014
 Response via : Initial Calibration
 DataAcq Meth : MP3770

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.37	152	53210	40.00	ppb	0.00
24) Naphthalene-d8	6.11	136	195697	40.00	ppb	0.00
47) Acenaphthene-d10	8.84	164	100496	40.00	ppb	0.00
69) Phenanthrene-d10	11.19	188	130560	40.00	ppb	0.00
83) Chrysene-d12	15.90	240	131743	40.00	ppb	-0.01
92) Perylene-d12	18.45	264	101540	40.00	ppb	0.00
102) 1,4-Dichlorobenzene-d4A	4.37	152	53210	40.00	ppb	0.00
112) Naphthalene-d8A	6.11	136	195697	40.00	ppb	0.00
120) Acenaphthene-d10A	8.84	164	100496	40.00	ppb	0.00
131) Phenanthrene-d10A	11.19	188	130560	40.00	ppb	0.00
146) Chrysene-d12A	15.90	240	131743	40.00	ppb	-0.01
154) Perylene-d12A	18.45	264	101540	40.00	ppb	0.00
157) 1,4-Dichlorobenzene-d4b	4.37	152	53210	40.00	ppb	0.00
159) Phenanthrene-d10b	11.19	188	130560	40.00	ppb	0.00
161) Chrysene-d12b	15.90	240	131743	40.00	ppb	0.00
163) Naphthalene-d8b	6.11	136	195697	40.00	ppb	0.00
165) Acenaphthene-d10b	8.84	164	100496	40.00	ppb	0.00
167) Naphthalene-d8c	6.11	136	195697	40.00	ppb	0.00
172) 1,4-Dichlorobenzene-d4a	4.37	152	53210	40.00	ppb	0.00
174) Chrysene-d12c	15.90	240	131743	40.00	ppb	-0.01
176) Chrysene-d12d	15.90	240	131743	40.00	ppb	-0.01
178) Naphthalene-d8a	6.11	136	195697	40.00	ppb	0.00
180) Naphthalene-d8b	6.11	136	195697	40.00	ppb	0.00
182) Perylene-d12a	18.45	264	101540	40.00	ppb	-0.03

System Monitoring Compounds

5) 2-Fluorophenol	0.00	112	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
8) Phenol-d5	0.00	99	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
25) Nitrobenzene-d5	0.00	82	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
51) 2-Fluorobiphenyl	0.00	172	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
73) 2,4,6-Tribromophenol	0.00	330	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
85) Terphenyl-d14	0.00	244	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	

Target Compounds

						Qvalue
2) 1,4-Dioxane	1.82	88	44150	50.96	ppb	100
6) Indene	4.70	116	177012	56.54	ppb	96
7) Cumene	3.46	105	237150	47.27	ppb	99
13) Decane	4.18	43	75216	46.19	ppb	98
18) Acetophenone	4.89	105	137706	49.17	ppb	98
27) Quinoline	6.65	129	187109	47.46	ppb	100
40) 2,3-Dichloroaniline	7.66	161	84023	42.68	ppb	99
41) Caprolactam	6.74	55	32981	49.12	ppb	97
45) 1-Methylnaphthalene	7.36	142	181912	44.70	ppb	98
46) Dimethylnaphthalene	8.20	156	153105	46.05	ppb	99

(#) = qualifier out of range (m) = manual integration
 P88250.D MP3770.M Sat Aug 23 14:05:56 2014

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP3770\P88250.D Vial: 20
Acq On : 23 Aug 2014 3:27 am Operator: kristis
Sample : icv3771-50 Inst : MSP
Misc : op76634,ep3771,1000,,,1,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 23 09:43:32 2014 Quant Results File: MP3770.RES

Quant Method : C:\MSDCHEM\1\METHODS\MP3770.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Sat Aug 23 09:43:08 2014
Response via : Initial Calibration
DataAcq Meth : MP3770

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
53) Biphenyl	7.96	154	207293	60.88	ppb	99
82) Octadecane	11.19	57	83330	55.55	ppb	99
100) 7,12-Dimethylbenz(a)anthra	17.83	256	48174	35.43	ppb	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed
P88250.D MP3770.M Sat Aug 23 14:05:56 2014

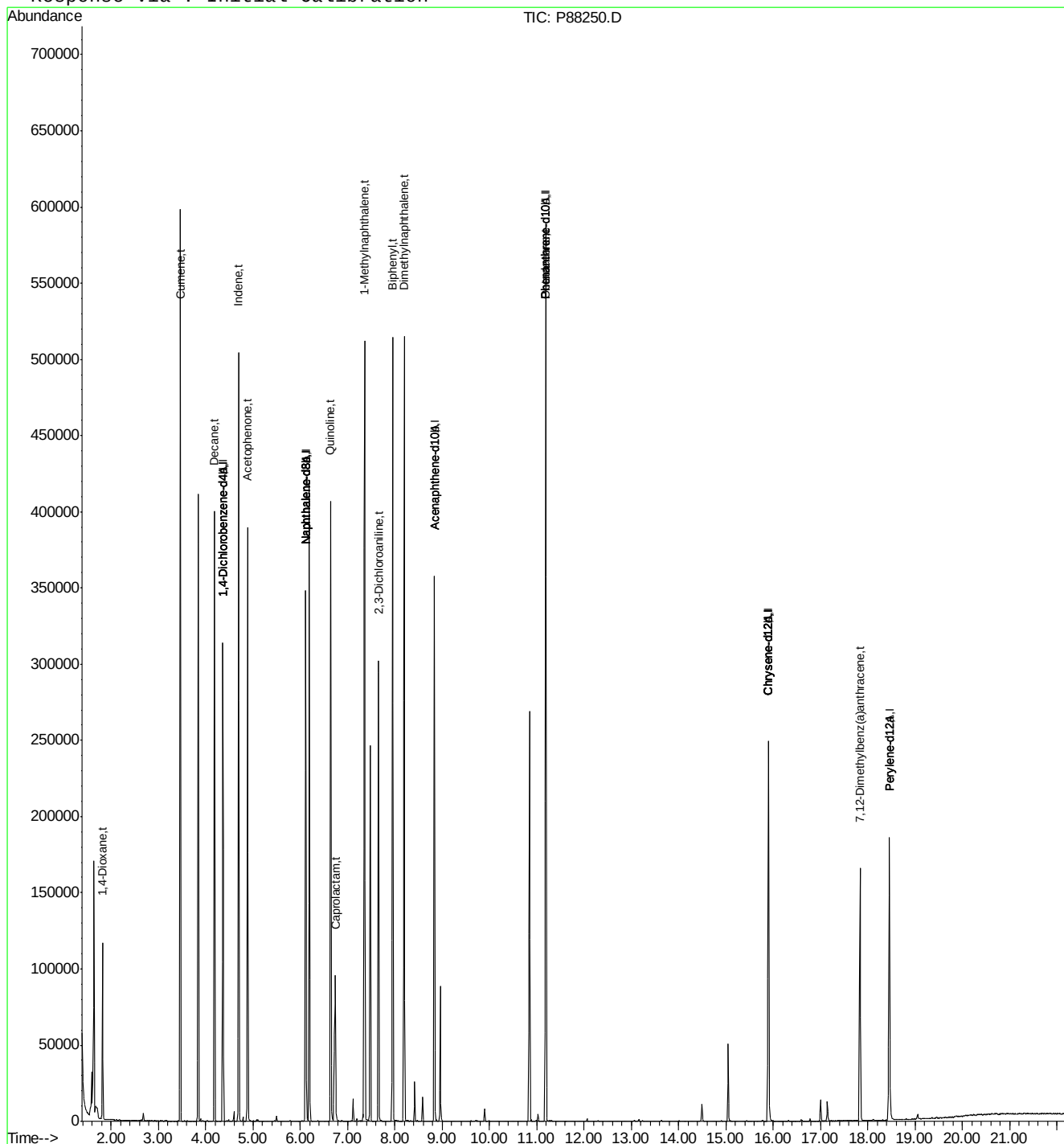
Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP3770\P88250.D
Acq On : 23 Aug 2014 3:27 am
Sample : icv3771-50
Misc : op76634,ep3771,1000,,,1,1
MS Integration Params: rteint.p
Quant Time: Aug 23 14:05 2014

Vial: 20
Operator: kristis
Inst : MSP
Multiplr: 1.00

Quant Results File: MP3770.RES

Method : C:\MSDCHEM\1\METHODS\MP3770.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Sat Aug 23 14:01:15 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP3770\P88251.D Vial: 21
 Acq On : 23 Aug 2014 3:56 am Operator: kristis
 Sample : icv3770-50 Inst : MSP
 Misc : op76634,ep3771,1000,,,1,1 Multiplr: 1.00
 MS Integration Params: rteint.p
 Quant Time: Aug 23 08:42:08 2014 Quant Results File: MP3770.RES

Quant Method : C:\MSDCHEM\1\METHODS\MP3770.M (RTE Integrator)
 Title : Semi Volatile Extractables by GC/MS
 Last Update : Sat Aug 23 08:32:49 2014
 Response via : Initial Calibration
 DataAcq Meth : MP3770

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.37	152	63056	40.00	ppb	0.00
24) Naphthalene-d8	6.11	136	224837	40.00	ppb	0.00
47) Acenaphthene-d10	8.84	164	116658	40.00	ppb	0.00
69) Phenanthrene-d10	11.19	188	175576	40.00	ppb	0.00
83) Chrysene-d12	15.90	240	158772	40.00	ppb	-0.01
92) Perylene-d12	18.46	264	141166	40.00	ppb	0.00
102) 1,4-Dichlorobenzene-d4A	4.37	152	63056	40.00	ppb	0.00
112) Naphthalene-d8A	6.11	136	224837	40.00	ppb	0.00
120) Acenaphthene-d10A	8.84	164	116658	40.00	ppb	0.00
131) Phenanthrene-d10A	11.19	188	175576	40.00	ppb	0.00
146) Chrysene-d12A	15.90	240	158772	40.00	ppb	-0.01
154) Perylene-d12A	18.46	264	141166	40.00	ppb	0.00
157) 1,4-Dichlorobenzene-d4b	4.37	152	63056	40.00	ppb	0.00
159) Phenanthrene-d10b	11.19	188	175576	40.00	ppb	0.00
161) Chrysene-d12b	15.90	240	158772	40.00	ppb	-0.01
163) Naphthalene-d8b	6.11	136	224837	40.00	ppb	0.00
165) Acenaphthene-d10b	8.84	164	116658	40.00	ppb	0.00
167) Naphthalene-d8c	6.11	136	224837	40.00	ppb	0.00
172) 1,4-Dichlorobenzene-d4a	4.37	152	63056	40.00	ppb	0.00
174) Chrysene-d12c	15.90	240	158772	40.00	ppb	-0.01
176) Chrysene-d12d	15.90	240	158772	40.00	ppb	-0.01
178) Naphthalene-d8a	6.11	136	224837	40.00	ppb	0.00
180) Naphthalene-d8b	6.11	136	224837	40.00	ppb	0.00
182) Perylene-d12a	18.46	264	141166	40.00	ppb	-0.02

System Monitoring Compounds

5) 2-Fluorophenol	2.95	112	107398	44.23	ppb	0.00
Spiked Amount	50.000		Recovery	=	88.46%	
8) Phenol-d5	3.91	99	125855	42.00	ppb	0.00
Spiked Amount	50.000		Recovery	=	84.00%	
25) Nitrobenzene-d5	5.09	82	106521	47.19	ppb	0.00
Spiked Amount	50.000		Recovery	=	94.38%	
51) 2-Fluorobiphenyl	7.81	172	193668	47.87	ppb	0.00
Spiked Amount	50.000		Recovery	=	95.74%	
73) 2,4,6-Tribromophenol	10.09	330	19784	43.89	ppb	0.00
Spiked Amount	50.000		Recovery	=	87.78%	
85) Terphenyl-d14	14.01	244	175029	47.74	ppb	0.00
Spiked Amount	50.000		Recovery	=	95.48%	

Target Compounds

Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 P88251.D MP3770.M Sat Aug 23 14:06:41 2014

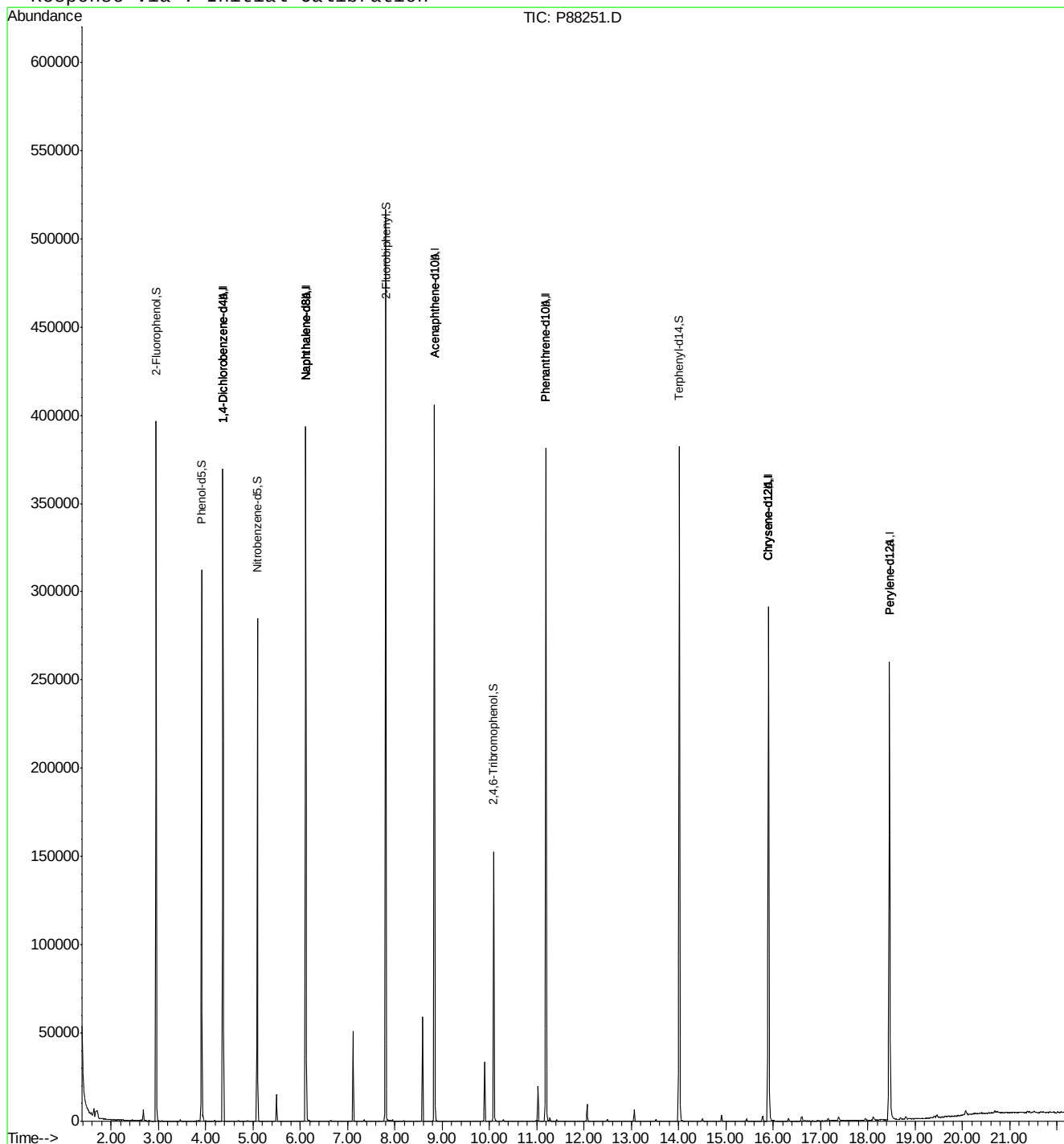
Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP3770\P88251.D
Acq On : 23 Aug 2014 3:56 am
Sample : icv3770-50
Misc : op76634,ep3771,1000,,,1,1
MS Integration Params: rteint.p
Quant Time: Aug 23 8:42 2014

Vial: 21
Operator: kristis
Inst : MSP
Multiplr: 1.00

Quant Results File: MP3770.RES

Method : C:\MSDCHEM\1\METHODS\MP3770.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Sat Aug 23 14:01:15 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP3770\P88252A.D Vial: 22
 Acq On : 23 Aug 2014 4:25 am Operator: kristis
 Sample : icv3770-50 Inst : MSP
 Misc : op76634,ep3771,1000,,,1,1 Multiplr: 1.00
 MS Integration Params: rteint.p
 Quant Time: Aug 23 09:50:53 2014 Quant Results File: MP3770.RES

Quant Method : C:\MSDCHEM\1\METHODS\MP3770.M (RTE Integrator)
 Title : Semi Volatile Extractables by GC/MS
 Last Update : Sat Aug 23 09:43:08 2014
 Response via : Initial Calibration
 DataAcq Meth : MP3770

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.37	152	67739	40.00	ppb	0.00
24) Naphthalene-d8	6.12	136	239298	40.00	ppb	0.00
47) Acenaphthene-d10	8.84	164	129681	40.00	ppb	0.00
69) Phenanthrene-d10	11.19	188	201073	40.00	ppb	0.00
83) Chrysene-d12	15.91	240	184213	40.00	ppb	0.00
92) Perylene-d12	18.46	264	173642	40.00	ppb	0.00
102) 1,4-Dichlorobenzene-d4A	4.37	152	67739	40.00	ppb	0.00
112) Naphthalene-d8A	6.12	136	239298	40.00	ppb	0.00
120) Acenaphthene-d10A	8.84	164	129681	40.00	ppb	0.00
131) Phenanthrene-d10A	11.19	188	201073	40.00	ppb	0.00
146) Chrysene-d12A	15.91	240	184213	40.00	ppb	0.00
154) Perylene-d12A	18.46	264	173642	40.00	ppb	0.00
157) 1,4-Dichlorobenzene-d4b	4.37	152	67739	40.00	ppb	0.00
159) Phenanthrene-d10b	11.19	188	201073	40.00	ppb	0.00
161) Chrysene-d12b	15.91	240	184213	40.00	ppb	0.00
163) Naphthalene-d8b	6.12	136	239298	40.00	ppb	0.00
165) Acenaphthene-d10b	8.84	164	129681	40.00	ppb	0.00
167) Naphthalene-d8c	6.12	136	239298	40.00	ppb	0.00
172) 1,4-Dichlorobenzene-d4a	4.37	152	67739	40.00	ppb	0.00
174) Chrysene-d12c	15.91	240	184213	40.00	ppb	0.00
176) Chrysene-d12d	15.91	240	184213	40.00	ppb	0.00
178) Naphthalene-d8a	6.12	136	239298	40.00	ppb	0.00
180) Naphthalene-d8b	6.12	136	239298	40.00	ppb	0.00
182) Perylene-d12a	18.46	264	173642	40.00	ppb	-0.02

System Monitoring Compounds

5) 2-Fluorophenol	0.00	112	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
8) Phenol-d5	0.00	99	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
25) Nitrobenzene-d5	0.00	82	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
51) 2-Fluorobiphenyl	0.00	172	0d	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
73) 2,4,6-Tribromophenol	0.00	330	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
85) Terphenyl-d14	0.00	244	0d	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	

Target Compounds

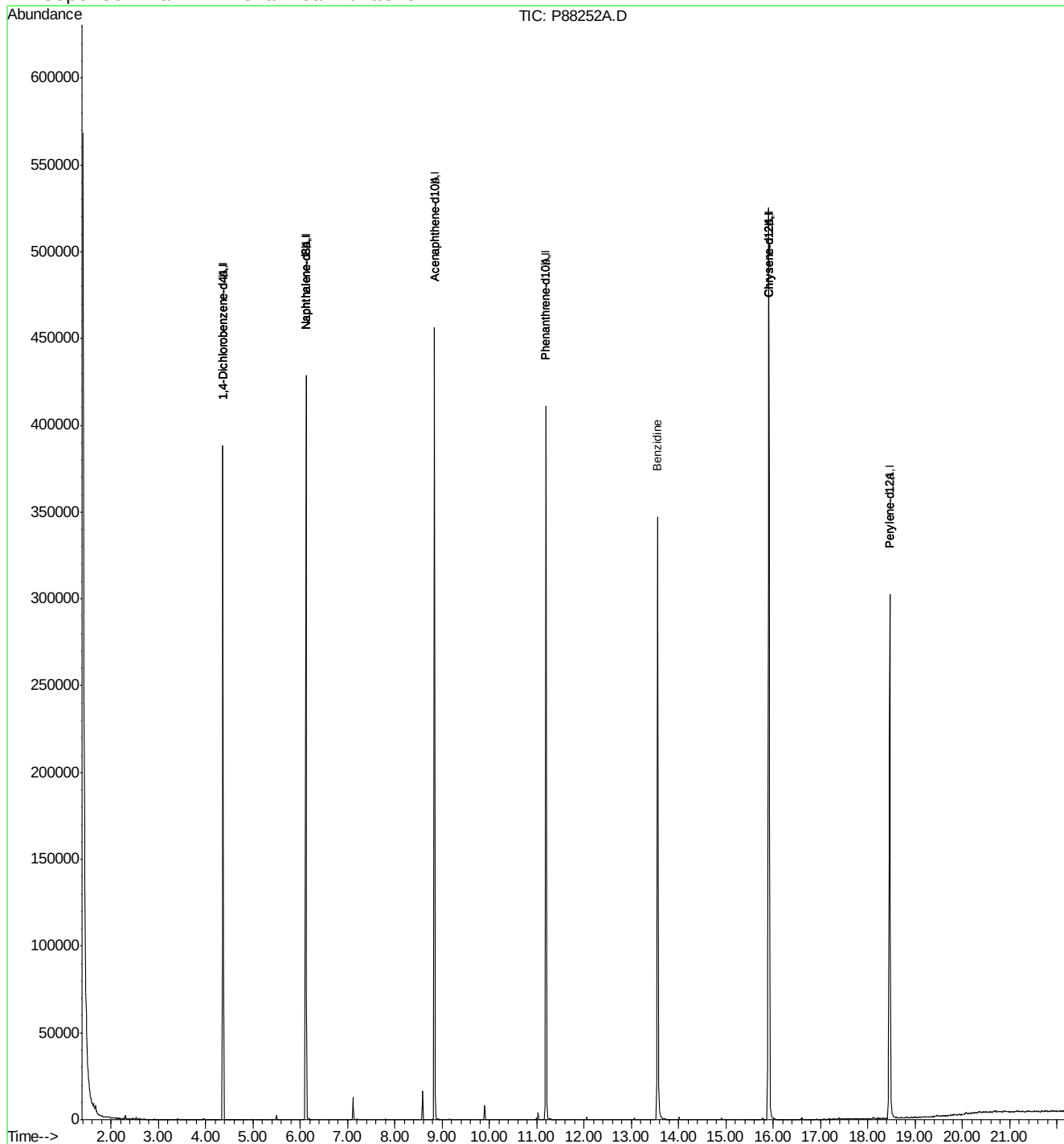
						Qvalue
162) Benzidine	13.55	184	196736	64.97	ppb	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 P88252A.D MP3770.M Sat Aug 23 14:07:22 2014

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP3770\P88252A.D Vial: 22
Acq On : 23 Aug 2014 4:25 am Operator: kristis
Sample : icv3770-50 Inst : MSP
Misc : op76634,ep3771,1000,,,1,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 23 14:07 2014 Quant Results File: MP3770.RES

Method : C:\MSDCHEM\1\METHODS\MP3770.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Sat Aug 23 14:01:15 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP3770\P88252.D Vial: 22
 Acq On : 23 Aug 2014 4:25 am Operator: kristis
 Sample : icv3771-50 Inst : MSP
 Misc : op76634,ep3771,1000,,,1,1 Multiplr: 1.00
 MS Integration Params: rteint.p
 Quant Time: Aug 23 09:50:53 2014 Quant Results File: MP3770.RES

Quant Method : C:\MSDCHEM\1\METHODS\MP3770.M (RTE Integrator)
 Title : Semi Volatile Extractables by GC/MS
 Last Update : Sat Aug 23 09:43:08 2014
 Response via : Initial Calibration
 DataAcq Meth : MP3770

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.37	152	67739	40.00	ppb	0.00
24) Naphthalene-d8	6.12	136	239298	40.00	ppb	0.00
47) Acenaphthene-d10	8.84	164	129681	40.00	ppb	0.00
69) Phenanthrene-d10	11.19	188	201073	40.00	ppb	0.00
83) Chrysene-d12	15.91	240	184213	40.00	ppb	0.00
92) Perylene-d12	18.46	264	173642	40.00	ppb	0.00
102) 1,4-Dichlorobenzene-d4A	4.37	152	67739	40.00	ppb	0.00
112) Naphthalene-d8A	6.12	136	239298	40.00	ppb	0.00
120) Acenaphthene-d10A	8.84	164	129681	40.00	ppb	0.00
131) Phenanthrene-d10A	11.19	188	201073	40.00	ppb	0.00
146) Chrysene-d12A	15.91	240	184213	40.00	ppb	0.00
154) Perylene-d12A	18.46	264	173642	40.00	ppb	0.00
157) 1,4-Dichlorobenzene-d4b	4.37	152	67739	40.00	ppb	0.00
159) Phenanthrene-d10b	11.19	188	201073	40.00	ppb	0.00
161) Chrysene-d12b	15.91	240	184213	40.00	ppb	0.00
163) Naphthalene-d8b	6.12	136	239298	40.00	ppb	0.00
165) Acenaphthene-d10b	8.84	164	129681	40.00	ppb	0.00
167) Naphthalene-d8c	6.12	136	239298	40.00	ppb	0.00
172) 1,4-Dichlorobenzene-d4a	4.37	152	67739	40.00	ppb	0.00
174) Chrysene-d12c	15.91	240	184213	40.00	ppb	0.00
176) Chrysene-d12d	15.91	240	184213	40.00	ppb	0.00
178) Naphthalene-d8a	6.12	136	239298	40.00	ppb	0.00
180) Naphthalene-d8b	6.12	136	239298	40.00	ppb	0.00
182) Perylene-d12a	18.46	264	173642	40.00	ppb	-0.02

System Monitoring Compounds

5) 2-Fluorophenol	0.00	112	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
8) Phenol-d5	0.00	99	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
25) Nitrobenzene-d5	0.00	82	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
51) 2-Fluorobiphenyl	0.00	172	0d	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
73) 2,4,6-Tribromophenol	0.00	330	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
85) Terphenyl-d14	0.00	244	0d	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	

Target Compounds

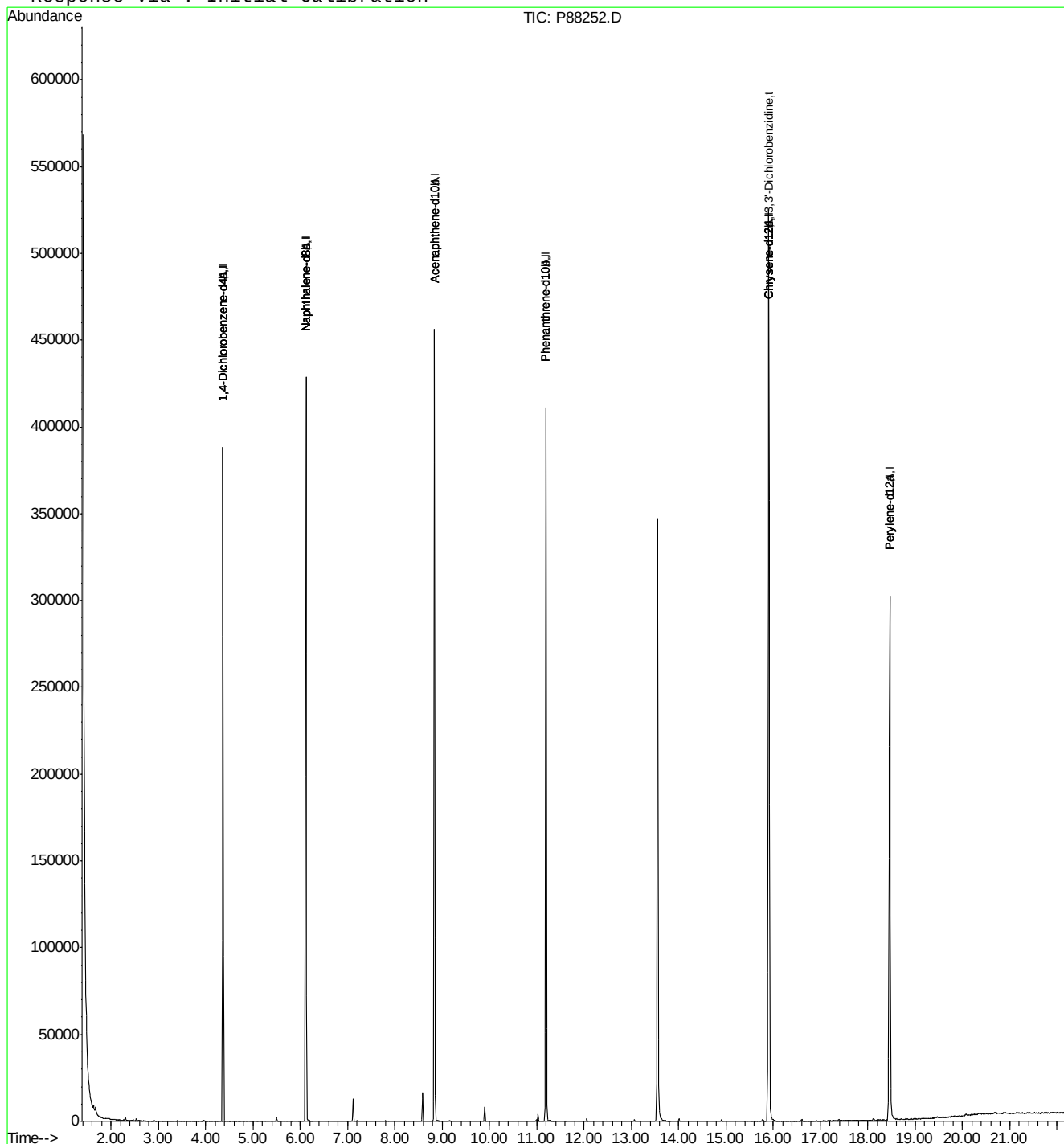
89) 3,3'-Dichlorobenzidine	15.92	252	87248	49.44	ppb	Qvalue 99

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 P88252.D MP3770.M Sat Aug 23 14:07:09 2014

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP3770\P88252.D Vial: 22
Acq On : 23 Aug 2014 4:25 am Operator: kristis
Sample : icv3771-50 Inst : MSP
Misc : op76634,ep3771,1000,,,1,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 23 14:07 2014 Quant Results File: MP3770.RES

Method : C:\MSDCHEM\1\METHODS\MP3770.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Sat Aug 23 14:01:15 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP3770\P88254.D Vial: 24
 Acq On : 23 Aug 2014 5:22 am Operator: kristis
 Sample : icv3771-50 Inst : MSP
 Misc : op76634,ep3771,1000,,,1,1 Multiplr: 1.00
 MS Integration Params: rteint.p
 Quant Time: Aug 23 08:43:38 2014 Quant Results File: MP3770.RES

Quant Method : C:\MSDCHEM\1\METHODS\MP3770.M (RTE Integrator)
 Title : Semi Volatile Extractables by GC/MS
 Last Update : Sat Aug 23 08:32:49 2014
 Response via : Initial Calibration
 DataAcq Meth : MP3770

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.36	152	48505	40.00	ppb	0.00
24) Naphthalene-d8	6.11	136	182709	40.00	ppb	0.00
47) Acenaphthene-d10	8.83	164	90846	40.00	ppb	0.00
69) Phenanthrene-d10	11.19	188	137116	40.00	ppb	0.00
83) Chrysene-d12	15.90	240	121455	40.00	ppb	-0.01
92) Perylene-d12	18.45	264	105832	40.00	ppb	0.00
102) 1,4-Dichlorobenzene-d4A	4.36	152	48505	40.00	ppb	0.00
112) Naphthalene-d8A	6.11	136	182709	40.00	ppb	0.00
120) Acenaphthene-d10A	8.83	164	90846	40.00	ppb	0.00
131) Phenanthrene-d10A	11.19	188	137116	40.00	ppb	0.00
146) Chrysene-d12A	15.90	240	121455	40.00	ppb	-0.01
154) Perylene-d12A	18.45	264	105832	40.00	ppb	0.00
157) 1,4-Dichlorobenzene-d4b	4.36	152	48505	40.00	ppb	0.00
159) Phenanthrene-d10b	11.19	188	137116	40.00	ppb	0.00
161) Chrysene-d12b	15.90	240	121455	40.00	ppb	-0.01
163) Naphthalene-d8b	6.11	136	182709	40.00	ppb	0.00
165) Acenaphthene-d10b	8.83	164	90846	40.00	ppb	0.00
167) Naphthalene-d8c	6.11	136	182709	40.00	ppb	0.00
172) 1,4-Dichlorobenzene-d4a	4.36	152	48505	40.00	ppb	0.00
174) Chrysene-d12c	15.90	240	121455	40.00	ppb	-0.01
176) Chrysene-d12d	15.90	240	121455	40.00	ppb	-0.01
178) Naphthalene-d8a	6.11	136	182709	40.00	ppb	0.00
180) Naphthalene-d8b	6.11	136	182709	40.00	ppb	0.00
182) Perylene-d12a	18.45	264	105832	40.00	ppb	-0.03

System Monitoring Compounds

5) 2-Fluorophenol	0.00	112	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
8) Phenol-d5	0.00	99	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
25) Nitrobenzene-d5	0.00	82	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
51) 2-Fluorobiphenyl	0.00	172	0d	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
73) 2,4,6-Tribromophenol	0.00	330	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
85) Terphenyl-d14	0.00	244	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	

Target Compounds

						Qvalue
3) Pyridine	2.10	79	103885m	50.08	ppb	
10) Aniline	3.97	93	140787	44.56	ppb	78
16) Benzyl alcohol	4.54	108	55617	43.97	ppb	99
39) 4-Chloroaniline	6.25	127	97242	42.75	ppb	99
44) 2-Methylnaphthalene	7.21	141	134356	37.71	ppb	98
54) 2-Nitroaniline	8.14	65	32780	44.80	ppb	100
58) 3-Nitroaniline	8.80	138	38032	45.21	ppb	95
62) Dibenzofuran	9.16	168	183654	41.56	ppb	96
68) 4-Nitroaniline	9.76	138	34640	43.10	ppb	99
79) Carbazole	11.60	167	187909	42.01	ppb	99

(#) = qualifier out of range (m) = manual integration
 P88254.D MP3770.M Sat Aug 23 14:07:54 2014

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP3770\P88254.D Vial: 24
Acq On : 23 Aug 2014 5:22 am Operator: kristis
Sample : icv3771-50 Inst : MSP
Misc : op76634,ep3771,1000,,,1,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 23 08:43:38 2014 Quant Results File: MP3770.RES

Quant Method : C:\MSDCHEM\1\METHODS\MP3770.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Sat Aug 23 08:32:49 2014
Response via : Initial Calibration
DataAcq Meth : MP3770

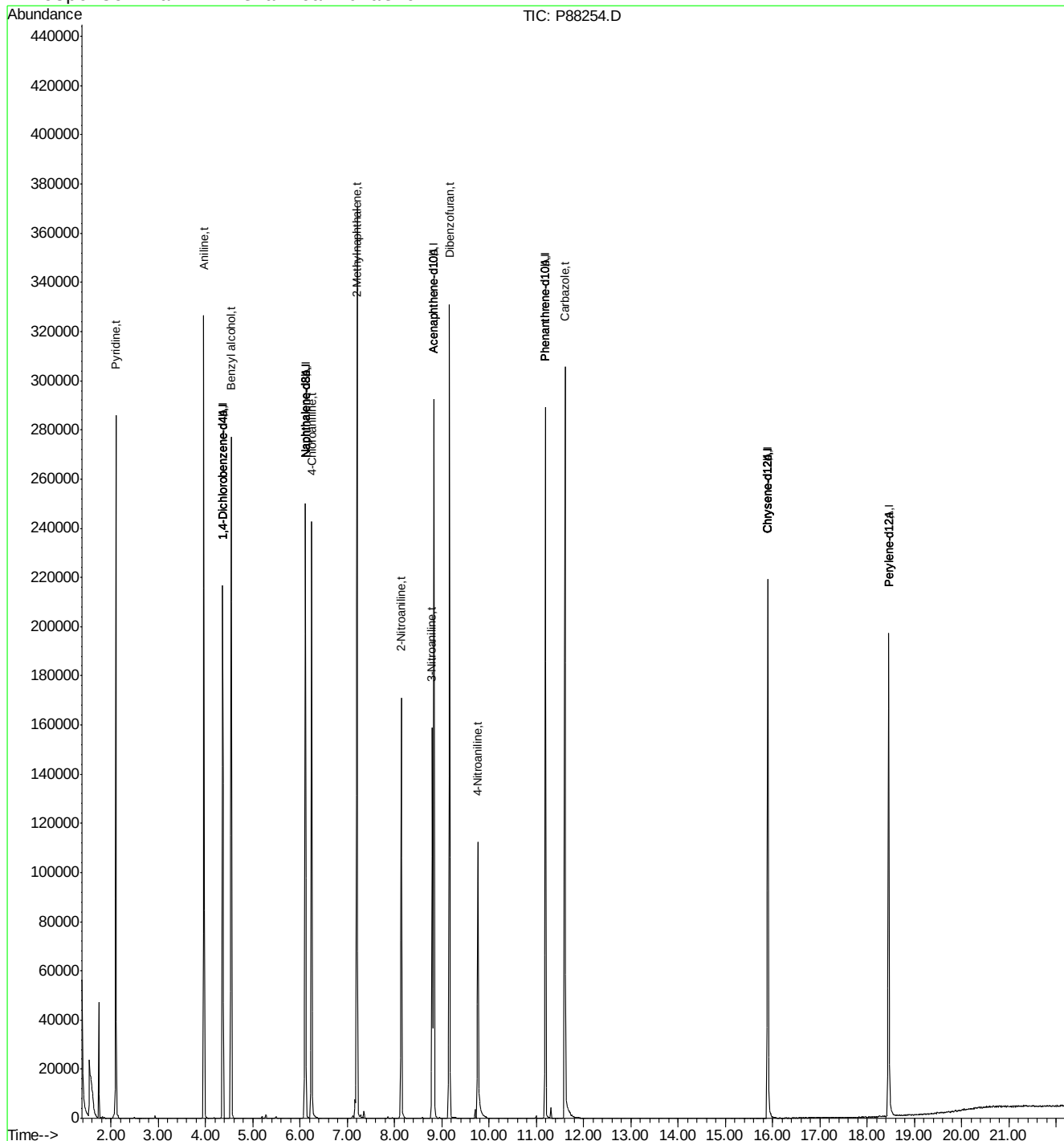
Compound	R.T.	QIon	Response	Conc	Unit	Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed
P88254.D MP3770.M Sat Aug 23 14:07:54 2014

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP3770\P88254.D Vial: 24
Acq On : 23 Aug 2014 5:22 am Operator: kristis
Sample : icv3771-50 Inst : MSP
Misc : op76634,ep3771,1000,,,1,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 23 8:45 2014 Quant Results File: MP3770.RES

Method : C:\MSDCHEM\1\METHODS\MP3770.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Sat Aug 23 14:01:15 2014
Response via : Initial Calibration



Manual Integration Approval Summary

Sample Number: EP3771-ICV3771

Method: SW846 8270D

Lab FileID: P88254.D

Analyst approved: 08/23/14 14:19 Kristi Schollenberger

Injection Time: 08/23/14 05:22

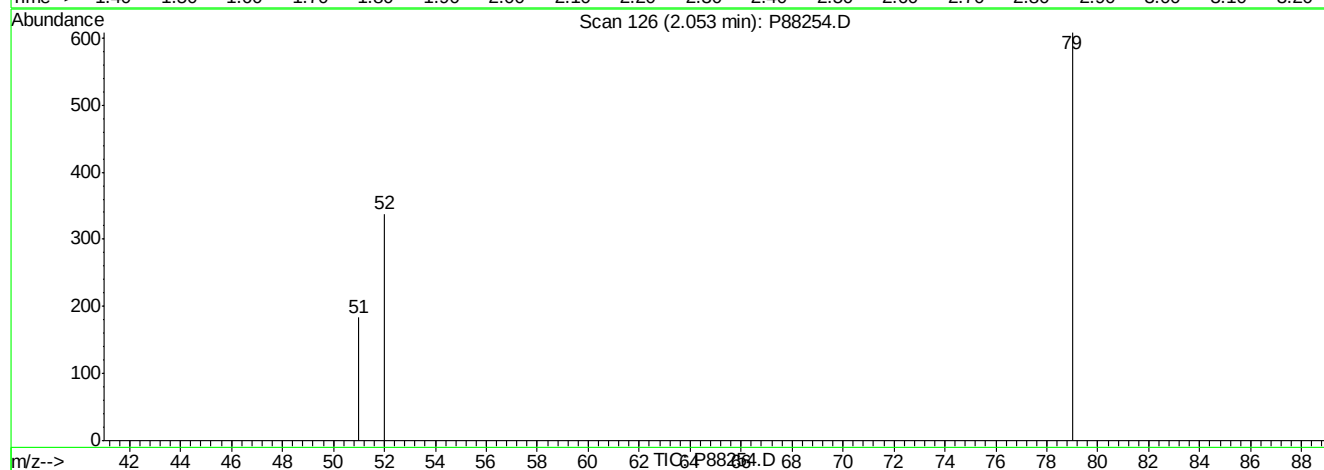
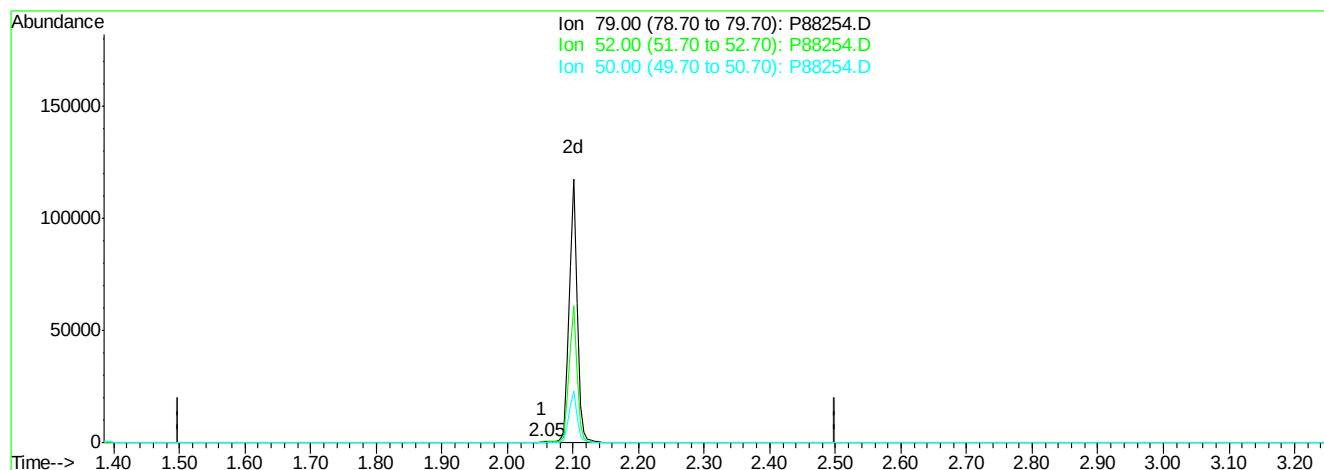
Supervisor approved: 08/25/14 11:14 Nina Pandya

Parameter	CAS	Sig#	R.T. (min.)	Reason
Pyridine	110-86-1		2.10	Poor instrument integration

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EP3770\P88254.D Vial: 24
Acq On : 23 Aug 2014 5:22 am Operator: kristis
Sample : icv3770-50 Inst : MSP
Misc : op76634,ep3771,1000,,,1,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 23 8:43 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MP3770.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Sat Aug 23 08:32:49 2014
Response via : Multiple Level Calibration



(3) Pyridine (t)

2.05min 0.25ppb

response 512

Ion	Exp%	Act%
79.00	100	100
52.00	52.20	48.03
50.00	20.40	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EP3770\P88254.D

Vial: 24

Acq On : 23 Aug 2014 5:22 am

Operator: kristis

Sample : icv3771-50

Inst : MSP

Misc : op76634,ep3771,1000,,,1,1

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Aug 23 8:45 2014

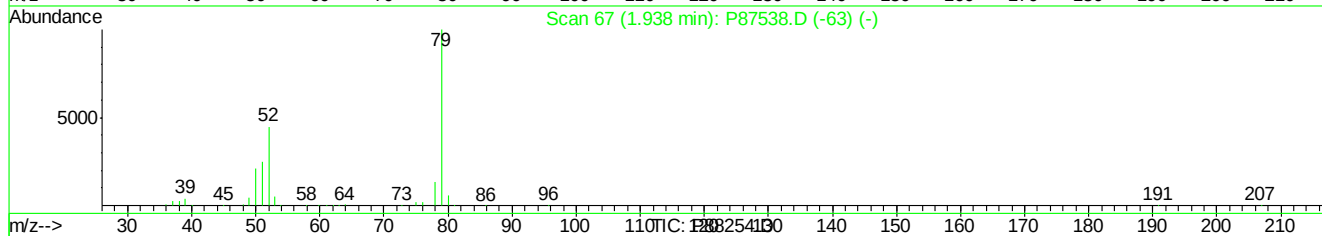
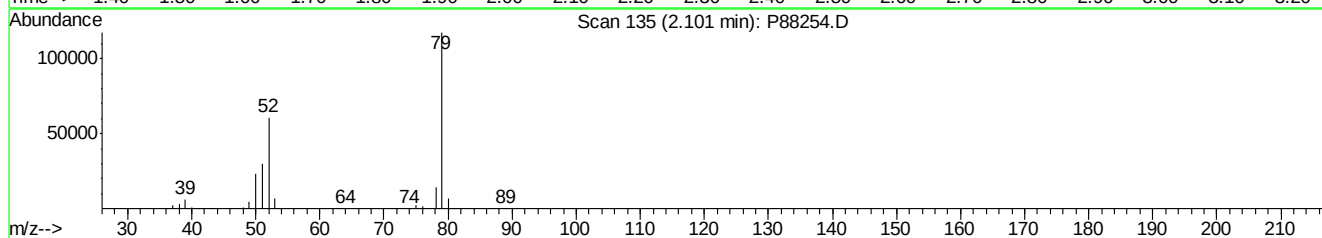
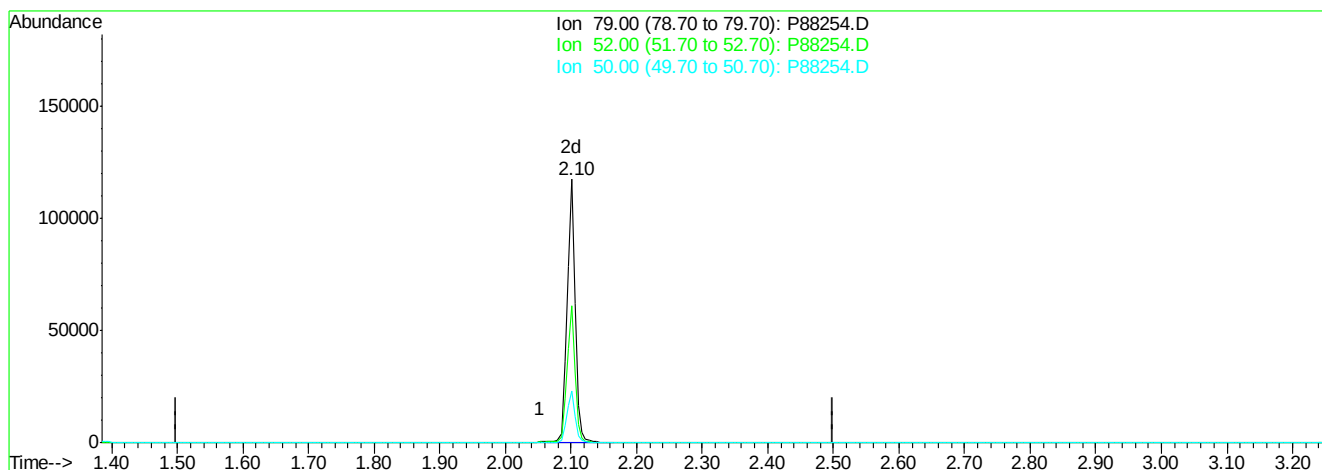
Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MP3770.M (RTE Integrator)

Title : Semi Volatile Extractables by GC/MS

Last Update : Sat Aug 23 14:01:15 2014

Response via : Multiple Level Calibration



(3) Pyridine (t)

2.10min 50.08ppb m

response 103885

Ion	Exp%	Act%
79.00	100	100
52.00	52.20	51.86
50.00	20.40	19.77
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP3772\P88256.D

Vial: 18

Acq On : 23 Aug 2014 8:51 am

Operator: kristis

Sample : icv3771-50

Inst : MSP

Misc : op76634,ep3772,1000,,,1,1

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Aug 23 09:13:59 2014

Quant Results File: MP3770.RES

Quant Method : C:\MSDCHEM\1\METHODS\MP3770.M (RTE Integrator)

Title : Semi Volatile Extractables by GC/MS

Last Update : Sat Aug 23 08:32:49 2014

Response via : Initial Calibration

DataAcq Meth : MP3770

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.36	152	52217	40.00	ppb	0.00
24) Naphthalene-d8	6.11	136	183887	40.00	ppb	0.00
47) Acenaphthene-d10	8.83	164	101356	40.00	ppb	0.00
69) Phenanthrene-d10	11.19	188	152054	40.00	ppb	-0.01
83) Chrysene-d12	15.89	240	142374	40.00	ppb	-0.02
92) Perylene-d12	18.45	264	121579	40.00	ppb	-0.01
102) 1,4-Dichlorobenzene-d4A	4.36	152	52217	40.00	ppb	0.00
112) Naphthalene-d8A	6.11	136	183887	40.00	ppb	0.00
120) Acenaphthene-d10A	8.83	164	101356	40.00	ppb	0.00
131) Phenanthrene-d10A	11.19	188	152054	40.00	ppb	-0.01
146) Chrysene-d12A	15.89	240	142374	40.00	ppb	-0.02
154) Perylene-d12A	18.45	264	121579	40.00	ppb	-0.01
157) 1,4-Dichlorobenzene-d4b	4.36	152	52217	40.00	ppb	0.00
159) Phenanthrene-d10b	11.19	188	152054	40.00	ppb	-0.01
161) Chrysene-d12b	15.89	240	142374	40.00	ppb	-0.02
163) Naphthalene-d8b	6.11	136	183887	40.00	ppb	0.00
165) Acenaphthene-d10b	8.83	164	101356	40.00	ppb	0.00
167) Naphthalene-d8c	6.11	136	183887	40.00	ppb	0.00
172) 1,4-Dichlorobenzene-d4a	4.36	152	52217	40.00	ppb	0.00
174) Chrysene-d12c	15.89	240	142374	40.00	ppb	-0.02
176) Chrysene-d12d	15.89	240	142374	40.00	ppb	-0.02
178) Naphthalene-d8a	6.11	136	183887	40.00	ppb	0.00
180) Naphthalene-d8b	6.11	136	183887	40.00	ppb	0.00
182) Perylene-d12a	18.45	264	121579	40.00	ppb	-0.03

System Monitoring Compounds

5) 2-Fluorophenol	0.00	112	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
8) Phenol-d5	0.00	99	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
25) Nitrobenzene-d5	0.00	82	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
51) 2-Fluorobiphenyl	0.00	172	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
73) 2,4,6-Tribromophenol	0.00	330	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
85) Terphenyl-d14	0.00	244	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	

Target Compounds

						Qvalue
9) Phenol	3.93	94	122730	44.07	ppb	96
12) 2-Chlorophenol	4.10	128	96072	44.10	ppb	98
19) 2-Methylphenol	4.69	108	86379	50.94	ppb	96
21) 3&4-Methylphenol	4.90	108	87200	48.78	ppb	99
29) 2-Nitrophenol	5.56	139	48913	51.21	ppb	97
30) 2,4-Dimethylphenol	5.65	107	81739	50.77	ppb	100
31) Benzoic acid	5.85	105	62509	50.83	ppb	96
33) 2,4-Dichlorophenol	5.92	162	70230	46.44	ppb	99
34) 2,6-Dichlorophenol	6.25	162	69499	46.94	ppb	99
43) 4-Chloro-3-methylphenol	7.02	107	71241	45.74	ppb	98

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

P88256.D MP3770.M Sat Aug 23 14:26:27 2014

Page 1

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP3772\P88256.D Vial: 18
Acq On : 23 Aug 2014 8:51 am Operator: kristis
Sample : icv3771-50 Inst : MSP
Misc : op76634,ep3772,1000,,,1,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 23 09:13:59 2014 Quant Results File: MP3770.RES

Quant Method : C:\MSDCHEM\1\METHODS\MP3770.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Sat Aug 23 08:32:49 2014
Response via : Initial Calibration
DataAcq Meth : MP3770

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
49) 2,4,6-Trichlorophenol	7.66	196	47939	47.41	ppb	98
50) 2,4,5-Trichlorophenol	7.71	196	49831	50.61	ppb	99
60) 2,4-Dinitrophenol	8.96	184	16233	40.29	ppb	96
61) 4-Nitrophenol	9.12	109	22105	46.45	ppb	88
64) 2,3,4,6-Tetrachlorophenol	9.38	232	36607	46.15	ppb	99
70) 4,6-Dinitro-2-methylphenol	9.82	198	24907	43.01	ppb	96
76) Pentachlorophenol	10.92	266	29967	53.02	ppb	99

9.6.49

9

(#) = qualifier out of range (m) = manual integration (+) = signals summed
P88256.D MP3770.M Sat Aug 23 14:26:27 2014

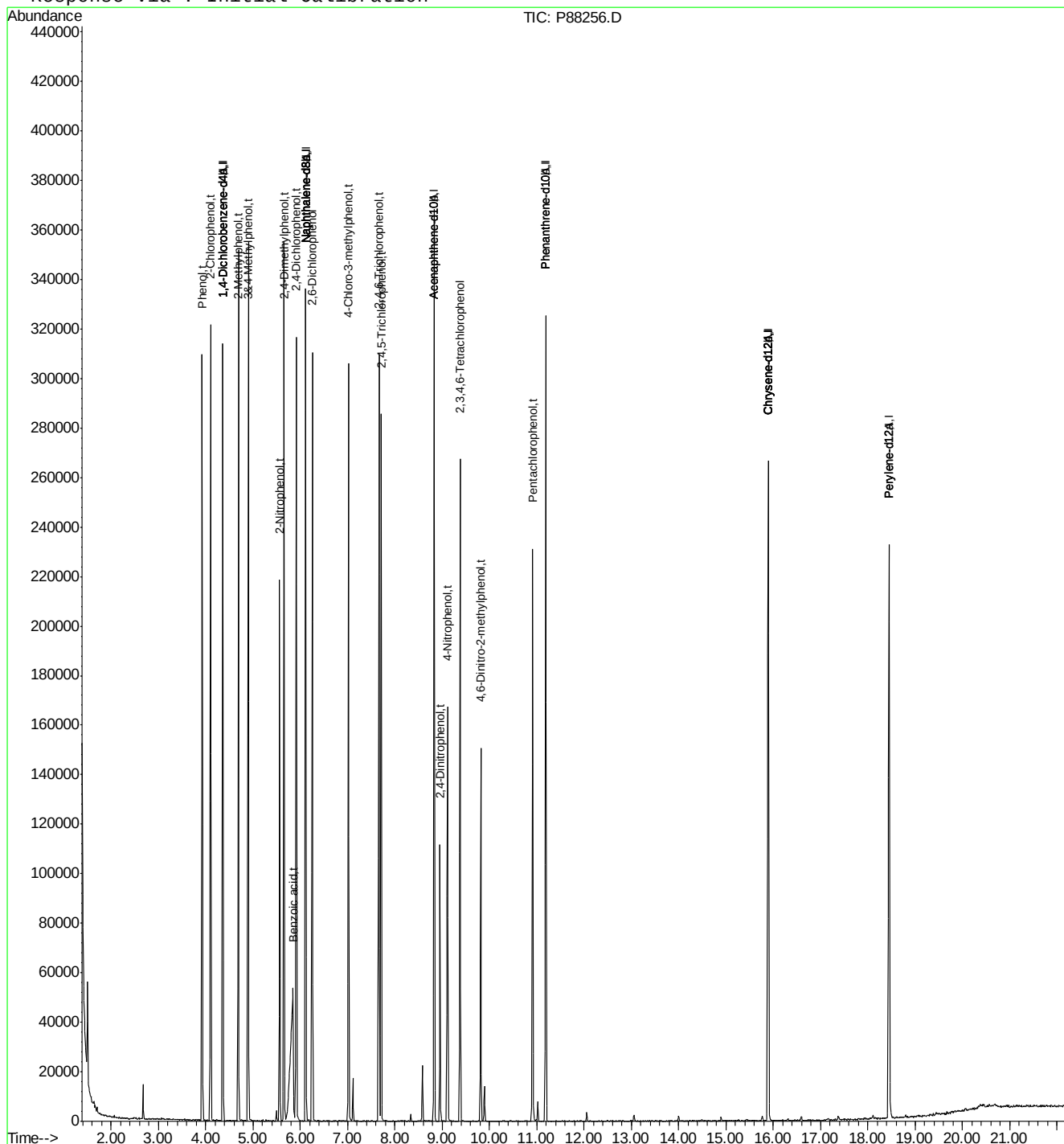
Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP3772\P88256.D
Acq On : 23 Aug 2014 8:51 am
Sample : icv3771-50
Misc : op76634,ep3772,1000,,,1,1
MS Integration Params: rteint.p
Quant Time: Aug 23 9:17 2014

Vial: 18
Operator: kristis
Inst : MSP
Multiplr: 1.00

Quant Results File: MP3770.RES

Method : C:\MSDCHEM\1\METHODS\MP3770.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Sat Aug 23 14:01:15 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP3772\P88258A.D Vial: 20
 Acq On : 23 Aug 2014 9:56 am Operator: kristis
 Sample : icv3770-50 Inst : MSP
 Misc : op76634,ep3772,1000,,,1,1 Multiplr: 1.00
 MS Integration Params: rteint.p
 Quant Time: Aug 23 14:26:46 2014 Quant Results File: MP3770.RES

Quant Method : C:\MSDCHEM\1\METHODS\MP3770.M (RTE Integrator)
 Title : Semi Volatile Extractables by GC/MS
 Last Update : Sat Aug 23 14:01:15 2014
 Response via : Initial Calibration
 DataAcq Meth : MP3770

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.36	152	51350	40.00	ppb	0.00
24) Naphthalene-d8	6.11	136	177404	40.00	ppb	0.00
47) Acenaphthene-d10	8.83	164	93648	40.00	ppb	0.00
69) Phenanthrene-d10	11.19	188	144412	40.00	ppb	0.00
83) Chrysene-d12	15.90	240	114310	40.00	ppb	-0.01
92) Perylene-d12	18.45	264	111156	40.00	ppb	0.00
102) 1,4-Dichlorobenzene-d4A	4.36	152	51350	40.00	ppb	0.00
112) Naphthalene-d8A	6.11	136	177404	40.00	ppb	0.00
120) Acenaphthene-d10A	8.83	164	93648	40.00	ppb	0.00
131) Phenanthrene-d10A	11.19	188	144412	40.00	ppb	0.00
146) Chrysene-d12A	15.90	240	114310	40.00	ppb	-0.01
154) Perylene-d12A	18.45	264	111156	40.00	ppb	0.00
157) 1,4-Dichlorobenzene-d4b	4.36	152	51350	40.00	ppb	0.00
159) Phenanthrene-d10b	11.19	188	144412	40.00	ppb	0.00
161) Chrysene-d12b	15.90	240	114310	40.00	ppb	0.00
163) Naphthalene-d8b	6.11	136	177404	40.00	ppb	0.00
165) Acenaphthene-d10b	8.83	164	93648	40.00	ppb	-0.01
167) Naphthalene-d8c	6.11	136	177404	40.00	ppb	0.00
172) 1,4-Dichlorobenzene-d4a	4.36	152	51350	40.00	ppb	0.00
174) Chrysene-d12c	15.90	240	114310	40.00	ppb	-0.01
176) Chrysene-d12d	15.90	240	114310	40.00	ppb	-0.01
178) Naphthalene-d8a	6.11	136	177404	40.00	ppb	0.00
180) Naphthalene-d8b	6.11	136	177404	40.00	ppb	0.00
182) Perylene-d12a	18.45	264	111156	40.00	ppb	-0.03

System Monitoring Compounds

5) 2-Fluorophenol	0.00	112	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
8) Phenol-d5	0.00	99	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
25) Nitrobenzene-d5	0.00	82	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
51) 2-Fluorobiphenyl	0.00	172	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
73) 2,4,6-Tribromophenol	0.00	330	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
85) Terphenyl-d14	0.00	244	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	

Target Compounds

						Qvalue
166) 1,2,4,5-Tetrachlorobenzene	7.48	216	61659	41.37	ppb	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 P88258A.D MP3770.M Sat Aug 23 14:30:17 2014

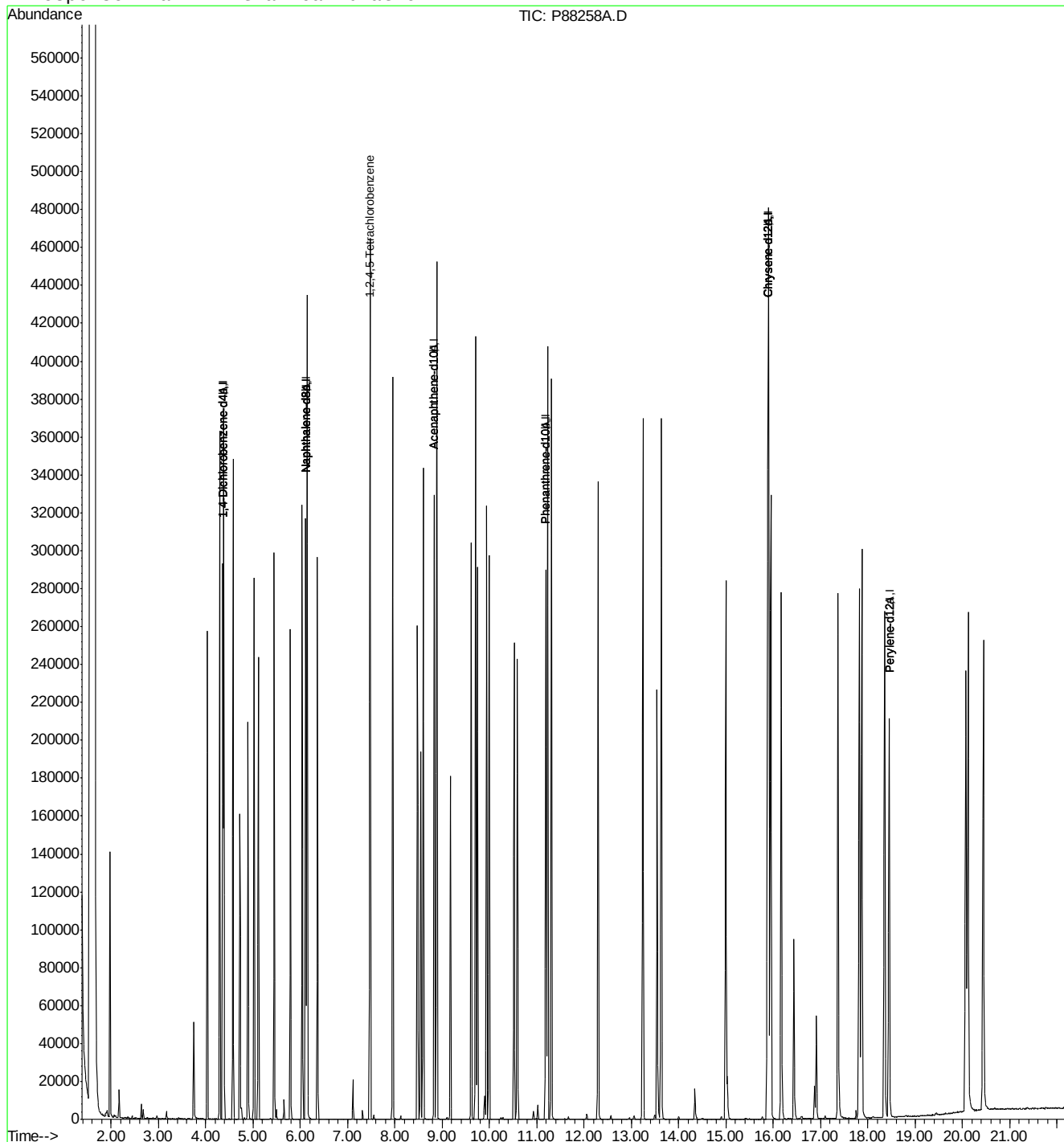
Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP3772\P88258A.D
Acq On : 23 Aug 2014 9:56 am
Sample : icv3770-50
Misc : op76634,ep3772,1000,,1,1
MS Integration Params: rteint.p
Quant Time: Aug 23 14:30 2014

Vial: 20
Operator: kristis
Inst : MSP
Multiplr: 1.00

Quant Results File: MP3770.RES

Method : C:\MSDCHEM\1\METHODS\MP3770.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Sat Aug 23 14:01:15 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP3772\P88258.D

Vial: 20

Acq On : 23 Aug 2014 9:56 am

Operator: kristis

Sample : icv3771-50

Inst : MSP

Misc : op76634,ep3772,1000,,,1,1

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Aug 23 14:26:46 2014

Quant Results File: MP3770.RES

Quant Method : C:\MSDCHEM\1\METHODS\MP3770.M (RTE Integrator)

Title : Semi Volatile Extractables by GC/MS

Last Update : Sat Aug 23 14:01:15 2014

Response via : Initial Calibration

DataAcq Meth : MP3770

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.36	152	51350	40.00	ppb	0.00
24) Naphthalene-d8	6.11	136	177404	40.00	ppb	0.00
47) Acenaphthene-d10	8.83	164	93648	40.00	ppb	0.00
69) Phenanthrene-d10	11.19	188	144412	40.00	ppb	0.00
83) Chrysene-d12	15.90	240	114310	40.00	ppb	-0.01
92) Perylene-d12	18.45	264	111156	40.00	ppb	0.00
102) 1,4-Dichlorobenzene-d4A	4.36	152	51350	40.00	ppb	0.00
112) Naphthalene-d8A	6.11	136	177404	40.00	ppb	0.00
120) Acenaphthene-d10A	8.83	164	93648	40.00	ppb	0.00
131) Phenanthrene-d10A	11.19	188	144412	40.00	ppb	0.00
146) Chrysene-d12A	15.90	240	114310	40.00	ppb	-0.01
154) Perylene-d12A	18.45	264	111156	40.00	ppb	0.00
157) 1,4-Dichlorobenzene-d4b	4.36	152	51350	40.00	ppb	0.00
159) Phenanthrene-d10b	11.19	188	144412	40.00	ppb	0.00
161) Chrysene-d12b	15.90	240	114310	40.00	ppb	0.00
163) Naphthalene-d8b	6.11	136	177404	40.00	ppb	0.00
165) Acenaphthene-d10b	8.83	164	93648	40.00	ppb	-0.01
167) Naphthalene-d8c	6.11	136	177404	40.00	ppb	0.00
172) 1,4-Dichlorobenzene-d4a	4.36	152	51350	40.00	ppb	0.00
174) Chrysene-d12c	15.90	240	114310	40.00	ppb	-0.01
176) Chrysene-d12d	15.90	240	114310	40.00	ppb	-0.01
178) Naphthalene-d8a	6.11	136	177404	40.00	ppb	0.00
180) Naphthalene-d8b	6.11	136	177404	40.00	ppb	0.00
182) Perylene-d12a	18.45	264	111156	40.00	ppb	-0.03

System Monitoring Compounds

5) 2-Fluorophenol	0.00	112	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
8) Phenol-d5	0.00	99	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
25) Nitrobenzene-d5	0.00	82	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
51) 2-Fluorobiphenyl	0.00	172	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
73) 2,4,6-Tribromophenol	0.00	330	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
85) Terphenyl-d14	0.00	244	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	

Target Compounds

						Qvalue
4) N-Nitrosodimethylamine	1.98	42	32308	41.86	ppb	91
11) bis(2-Chloroethyl)ether	4.03	93	90871	44.89	ppb	100
14) 1,3-Dichlorobenzene	4.30	146	102321	42.43	ppb	97
15) 1,4-Dichlorobenzene	4.38	146	95468	41.20	ppb	99
17) 1,2-Dichlorobenzene	4.58	146	95030	41.88	ppb	99
20) 2,2'-oxybis(1-Chloropropan	4.72	121	26888	44.01	ppb	# 97
22) n-Nitroso-di-n-propylamine	4.89	70	55661	52.10	ppb	99
23) Hexachloroethane	5.02	201	31078	43.50	ppb	97
26) Nitrobenzene	5.11	77	84455	43.31	ppb	98
28) Isophorone	5.45	82	142617	41.76	ppb	100

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

P88258.D MP3770.M Sat Aug 23 14:35:37 2014

Page 1

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP3772\P88258.D Vial: 20
 Acq On : 23 Aug 2014 9:56 am Operator: kristis
 Sample : icv3771-50 Inst : MSP
 Misc : op76634,ep3772,1000,,,1,1 Multiplr: 1.00
 MS Integration Params: rteint.p
 Quant Time: Aug 23 14:26:46 2014 Quant Results File: MP3770.RES

Quant Method : C:\MSDCHEM\1\METHODS\MP3770.M (RTE Integrator)
 Title : Semi Volatile Extractables by GC/MS
 Last Update : Sat Aug 23 14:01:15 2014
 Response via : Initial Calibration
 DataAcq Meth : MP3770

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
32) bis(2-Chloroethoxy)methane	5.79	93	99801	45.47	ppb	99
36) 1,2,4-Trichlorobenzene	6.04	180	72533	41.56	ppb	99
38) Naphthalene	6.14	128	223626	38.90	ppb	100
42) Hexachlorobutadiene	6.36	225	35463	42.33	ppb	98
48) Hexachlorocyclopentadiene	7.48	237	30475	43.87	ppb	100
52) 2-Chloronaphthalene	7.96	162	138132	44.72	ppb	98
55) Dimethylphthalate	8.48	163	148599	42.17	ppb	100
56) Acenaphthylene	8.60	152	183481	34.39	ppb	100
57) 2,6-Dinitrotoluene	8.55	165	31193	46.06	ppb	93
59) Acenaphthene	8.89	153	136288	41.04	ppb	100
63) 2,4-Dinitrotoluene	9.18	165	40142	45.05	ppb	97
65) Diethylphthalate	9.61	149	143964	41.53	ppb	99
66) Fluorene	9.71	166	147837	40.61	ppb	100
67) 4-Chlorophenyl-phenylether	9.75	204	63342	41.14	ppb	98
71) n-Nitrosodiphenylamine	9.94	169	101686	40.58	ppb	100
72) 1,2-Diphenylhydrazine	9.99	77	146006	39.11	ppb	98
74) 4-Bromophenyl-phenylether	10.52	248	37292	41.09	ppb	98
75) Hexachlorobenzene	10.59	284	39879	37.87	ppb	98
77) Phenanthrene	11.23	178	195059	38.36	ppb	99
78) Anthracene	11.31	178	193334	38.23	ppb	99
80) Di-n-butylphthalate	12.30	149	240016	42.33	ppb	100
81) Fluoranthene	13.24	202	209163	38.42	ppb	99
84) Pyrene	13.63	202	214310	45.02	ppb	99
86) Butylbenzylphthalate	15.00	149	103974	53.25	ppb	98
88) Benzo[a]anthracene	15.88	228	178999	44.85	ppb	100
90) Chrysene	15.95	228	170291	44.88	ppb	100
91) bis(2-Ethylhexyl)phthalate	16.17	149	134254	52.30	ppb	99
93) Di-n-octylphthalate	17.37	149	234675	48.24	ppb	99
94) Benzo[b]fluoranthene	17.82	252	177934	43.68	ppb	97
95) Benzo[k]fluoranthene	17.87	252	173538	41.00	ppb	99
96) Benzo[a]pyrene	18.36	252	164756	46.14	ppb	99
97) Indeno[1,2,3-cd]pyrene	20.08	276	155181	46.25	ppb	96
99) Dibenz[a,h]anthracene	20.12	278	160141	44.69	ppb	97
101) Benzo[g,h,i]perylene	20.45	276	166804	44.33	ppb	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 P88258.D MP3770.M Sat Aug 23 14:35:37 2014

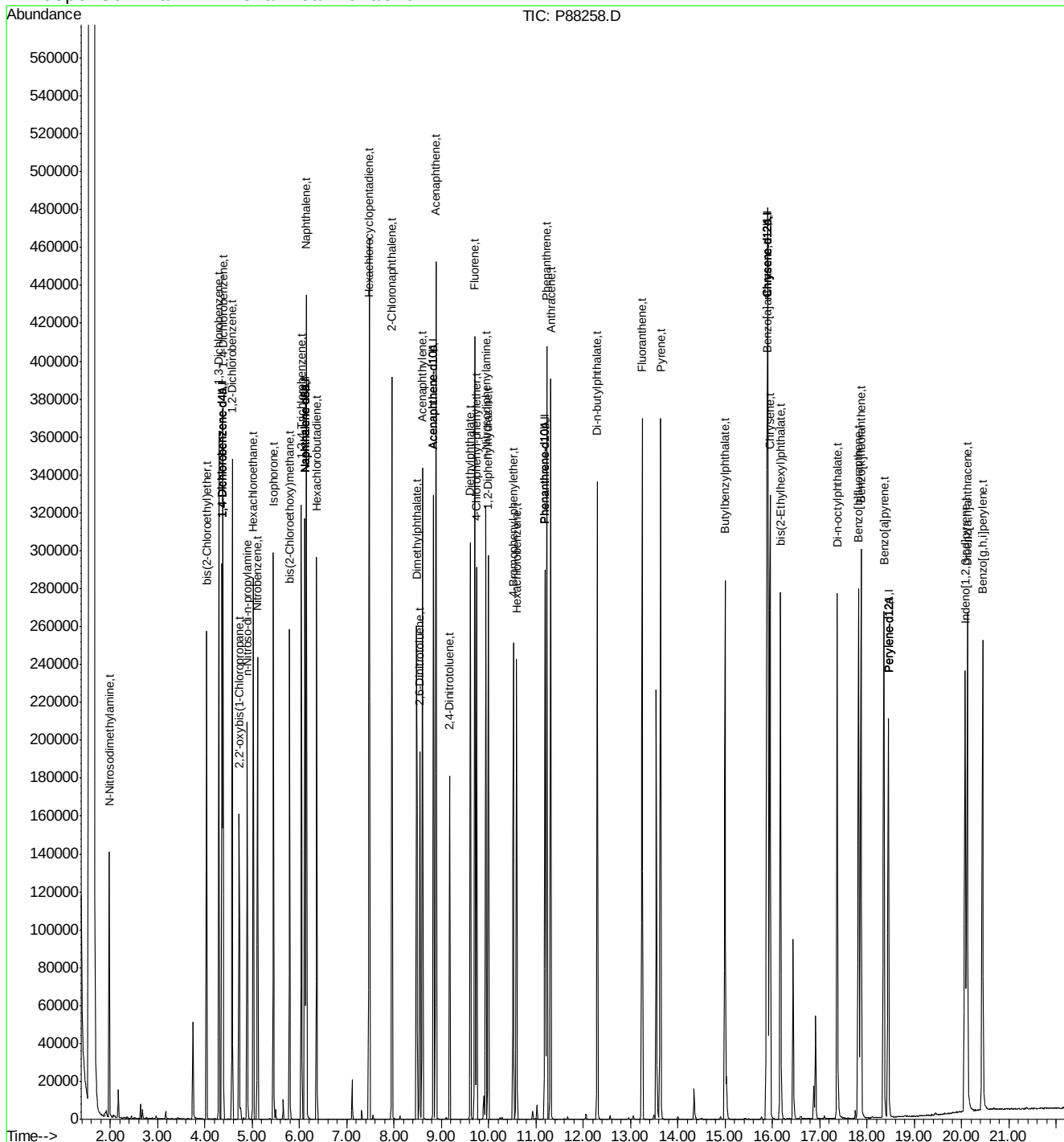
Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP3772\P88258.D
Acq On : 23 Aug 2014 9:56 am
Sample : icv3771-50
Misc : op76634,ep3772,1000,,,1,1
MS Integration Params: rteint.p
Quant Time: Aug 23 14:35 2014

Vial: 20
Operator: kristis
Inst : MSP
Multiplr: 1.00

Quant Results File: MP3770.RES

Method : C:\MSDCHEM\1\METHODS\MP3770.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Sat Aug 23 14:01:15 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP3796\P88854.D

Vial: 2

Acq On : 9 Sep 2014 4:35 pm

Operator: ashleyd

Sample : cc3771-50

Inst : MSP

Misc : op76634,ep3796

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Sep 09 16:58:11 2014

Quant Results File: MP3770.RES

Quant Method : C:\MSDCHEM\1\METHODS\MP3770.M (RTE Integrator)

Title : Semi Volatile Extractables by GC/MS

Last Update : Sat Sep 06 12:29:44 2014

Response via : Initial Calibration

DataAcq Meth : MP3770

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.25	152	42213	40.00	ppb	-0.04
24) Naphthalene-d8	6.00	136	152070	40.00	ppb	-0.05
47) Acenaphthene-d10	8.70	164	82595	40.00	ppb	-0.05
69) Phenanthrene-d10	11.06	188	123225	40.00	ppb	-0.05
83) Chrysene-d12	15.74	240	119691	40.00	ppb	-0.06
92) Perylene-d12	18.29	264	119751	40.00	ppb	-0.06
102) 1,4-Dichlorobenzene-d4b	4.25	152	42213	40.00	ppb	-0.04
104) Phenanthrene-d10b	11.06	188	123225	40.00	ppb	0.06
106) Chrysene-d12b	15.74	240	119691	40.00	ppb	-0.06
108) Naphthalene-d8b	6.00	136	152070	40.00	ppb	-0.05
110) Acenaphthene-d10b	8.70	164	82595	40.00	ppb	-0.05

System Monitoring Compounds

5) 2-Fluorophenol	2.87	112	77041	47.39	ppb	-0.04
Spiked Amount 50.000			Recovery =	94.78%		
8) Phenol-d5	3.85	99	89743	44.74	ppb	-0.04
Spiked Amount 50.000			Recovery =	89.48%		
25) Nitrobenzene-d5	4.98	82	72695	47.61	ppb	-0.04
Spiked Amount 50.000			Recovery =	95.22%		
51) 2-Fluorobiphenyl	7.68	172	133720	46.68	ppb	-0.05
Spiked Amount 50.000			Recovery =	93.36%		
73) 2,4,6-Tribromophenol	9.97	330	18168	57.43	ppb	-0.05
Spiked Amount 50.000			Recovery =	114.86%		
85) Terphenyl-d14	13.86	244	134095	48.51	ppb	-0.06
Spiked Amount 50.000			Recovery =	97.02%		

Target Compounds

						Qvalue
2) 1,4-Dioxane	1.73	88	34585	50.32	ppb	99
3) Pyridine	1.92	79	87517	48.48	ppb	97
4) N-Nitrosodimethylamine	1.89	42	33391	52.62	ppb	92
6) Indene	4.58	116	115761	46.60	ppb	98
7) Cumene	3.35	105	175870	44.19	ppb	99
9) Phenol	3.86	94	98979	43.96	ppb	59
10) Aniline	3.86	93	88507	32.19	ppb	# 21
11) bis(2-Chloroethyl)ether	3.93	93	69712	41.89	ppb	96
12) 2-Chlorophenol	4.01	128	77805	44.18	ppb	98
13) Decane	4.07	43	52869	40.93	ppb	99
14) 1,3-Dichlorobenzene	4.18	146	86050	43.41	ppb	98
15) 1,4-Dichlorobenzene	4.27	146	84396	44.31	ppb	100
16) Benzyl alcohol	4.44	108	48856	44.38	ppb	93
17) 1,2-Dichlorobenzene	4.47	146	76837	41.19	ppb	99
18) Acetophenone	4.78	105	96474	43.42	ppb	98
19) 2-Methylphenol	4.62	108	60024	43.78	ppb	96
20) 2,2'-oxybis(1-Chloropropan	4.61	121	21229	42.27	ppb	# 85
21) 3&4-Methylphenol	4.83	108	68232	47.21	ppb	99
22) n-Nitroso-di-n-propylamine	4.79	70	47595	55.84	ppb	99
23) Hexachloroethane	4.91	201	28460	48.45	ppb	90
26) Nitrobenzene	5.01	77	77321	46.26	ppb	99
27) Quinoline	6.53	129	140553	45.87	ppb	99
28) Isophorone	5.34	82	132024	45.10	ppb	99

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

P88854.D MP3770.M Wed Sep 10 15:36:17 2014

Page 1

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP3796\P88854.D

Vial: 2

Acq On : 9 Sep 2014 4:35 pm

Operator: ashleyd

Sample : cc3771-50

Inst : MSP

Misc : op76634,ep3796

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Sep 09 16:58:11 2014

Quant Results File: MP3770.RES

Quant Method : C:\MSDCHEM\1\METHODS\MP3770.M (RTE Integrator)

Title : Semi Volatile Extractables by GC/MS

Last Update : Sat Sep 06 12:29:44 2014

Response via : Initial Calibration

DataAcq Meth : MP3770

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
29) 2-Nitrophenol	5.45	139	43539	55.12	ppb	92
30) 2,4-Dimethylphenol	5.57	107	68527	51.47	ppb	98
31) Benzoic acid	5.78	105	37730	37.10	ppb	97
32) bis(2-Chloroethoxy)methane	5.68	93	79901	42.47	ppb	99
33) 2,4-Dichlorophenol	5.82	162	63494	50.77	ppb	96
34) 2,6-Dichlorophenol	6.15	162	57485	46.95	ppb	99
35) 1,3,5-Trichlorobenzene	5.47	180	63433	42.65	ppb	100
36) 1,2,4-Trichlorobenzene	5.92	180	65011	43.46	ppb	99
37) 1,2,3-Trichlorobenzene	6.25	180	55026	41.26	ppb	100
38) Naphthalene	6.03	128	204265	41.45	ppb	99
39) 4-Chloroaniline	6.14	127	81513	43.06	ppb	98
40) 2,3-Dichloroaniline	7.53	161	70714	46.22	ppb	100
41) Caprolactam	6.68	55	26675	51.13	ppb	98
42) Hexachlorobutadiene	6.24	225	32411	45.13	ppb	98
43) 4-Chloro-3-methylphenol	6.96	107	66299	51.47	ppb	100
44) 2-Methylnaphthalene	7.09	141	123283	41.57	ppb	99
45) 1-Methylnaphthalene	7.23	142	130235	41.18	ppb	98
46) Dimethylnaphthalene	8.07	156	114405	44.28	ppb	99
48) Hexachlorocyclopentadiene	7.35	237	64433	105.16	ppb	99
49) 2,4,6-Trichlorophenol	7.56	196	42184	51.20	ppb	99
50) 2,4,5-Trichlorophenol	7.64	196	42681	53.19	ppb	98
52) 2-Chloronaphthalene	7.83	162	116190	42.65	ppb	99
53) Biphenyl	7.83	154	145283	49.12	ppb	100
54) 2-Nitroaniline	8.03	65	38929	58.52	ppb	95
55) Dimethylphthalate	8.36	163	142933	45.99	ppb	99
56) Acenaphthylene	8.47	152	207127	44.01	ppb	99
57) 2,6-Dinitrotoluene	8.43	165	33037	55.31	ppb	98
58) 3-Nitroaniline	8.69	138	41003	53.61	ppb	99
59) Acenaphthene	8.76	153	126555	43.21	ppb	98
60) 2,4-Dinitrophenol	8.86	184	38019	115.81	ppb	97
61) 4-Nitrophenol	9.08	109	21450	55.32	ppb	89
62) Dibenzofuran	9.04	168	176937	44.04	ppb	94
63) 2,4-Dinitrotoluene	9.06	165	43496	55.34	ppb	98
64) 2,3,4,6-Tetrachlorophenol	9.27	232	36495	56.46	ppb	99
65) Diethylphthalate	9.49	149	147261	48.16	ppb	99
66) Fluorene	9.58	166	145496	45.32	ppb	99
67) 4-Chlorophenyl-phenylether	9.62	204	61056	44.96	ppb	96
68) 4-Nitroaniline	9.67	138	39595	54.19	ppb	94
70) 4,6-Dinitro-2-methylphenol	9.71	198	26542	56.55	ppb	98
71) n-Nitrosodiphenylamine	9.82	169	100372	46.94	ppb	97
72) 1,2-Diphenylhydrazine	9.87	77	140404	44.07	ppb	96
74) 4-Bromophenyl-phenylether	10.39	248	38062	49.15	ppb	93
75) Hexachlorobenzene	10.46	284	42278	47.05	ppb	97
76) Pentachlorophenol	10.81	266	50734	110.76	ppb	99
77) Phenanthrene	11.10	178	193302	44.55	ppb	99
78) Anthracene	11.18	178	198847	46.08	ppb	99
79) Carbazole	11.48	167	189777	47.21	ppb	99
80) Di-n-butylphthalate	12.16	149	250157	51.70	ppb	99
81) Fluoranthene	13.10	202	225215	48.48	ppb	95

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

P88854.D MP3770.M Wed Sep 10 15:36:17 2014

Page 2

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP3796\P88854.D Vial: 2
 Acq On : 9 Sep 2014 4:35 pm Operator: ashleyd
 Sample : cc3771-50 Inst : MSP
 Misc : op76634,ep3796 Multiplr: 1.00
 MS Integration Params: rteint.p
 Quant Time: Sep 09 16:58:11 2014 Quant Results File: MP3770.RES

Quant Method : C:\MSDCHEM\1\METHODS\MP3770.M (RTE Integrator)
 Title : Semi Volatile Extractables by GC/MS
 Last Update : Sat Sep 06 12:29:44 2014
 Response via : Initial Calibration
 DataAcq Meth : MP3770

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
82) Octadecane	11.05	57	67389	47.60	ppb	98
84) Pyrene	13.49	202	231239	46.39	ppb	96
86) Butylbenzylphthalate	14.84	149	116842	57.16	ppb	99
87) Butyl stearate	15.07	56	53661	53.94	ppb	96
88) Benzo[a]anthracene	15.73	228	199892	47.84	ppb	100
89) 3,3'-Dichlorobenzidine	15.76	252	63169	55.09	ppb	99
90) Chrysene	15.80	228	181465	45.68	ppb	99
91) bis(2-Ethylhexyl)phthalate	16.01	149	154826	57.60	ppb	99
93) Di-n-octylphthalate	17.21	149	280650	53.74	ppb	99
94) Benzo[b]fluoranthene	17.66	252	208815	47.58	ppb	98
95) Benzo[k]fluoranthene	17.72	252	192308	42.18	ppb	98
96) Benzo[a]pyrene	18.20	252	192123	49.94	ppb	98
97) Indeno[1,2,3-cd]pyrene	19.92	276	193634	53.57	ppb	92
98) Dibenz(a,h)acridine	19.61	279	163927	54.93	ppb	100
99) Dibenz[a,h]anthracene	19.96	278	194027	50.26	ppb	95
100) 7,12-Dimethylbenz(a)anthra	17.68	256	81981	51.07	ppb	98
101) Benzo[g,h,i]perylene	20.28	276	200892	49.56	ppb	95

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 P88854.D MP3770.M Wed Sep 10 15:36:17 2014

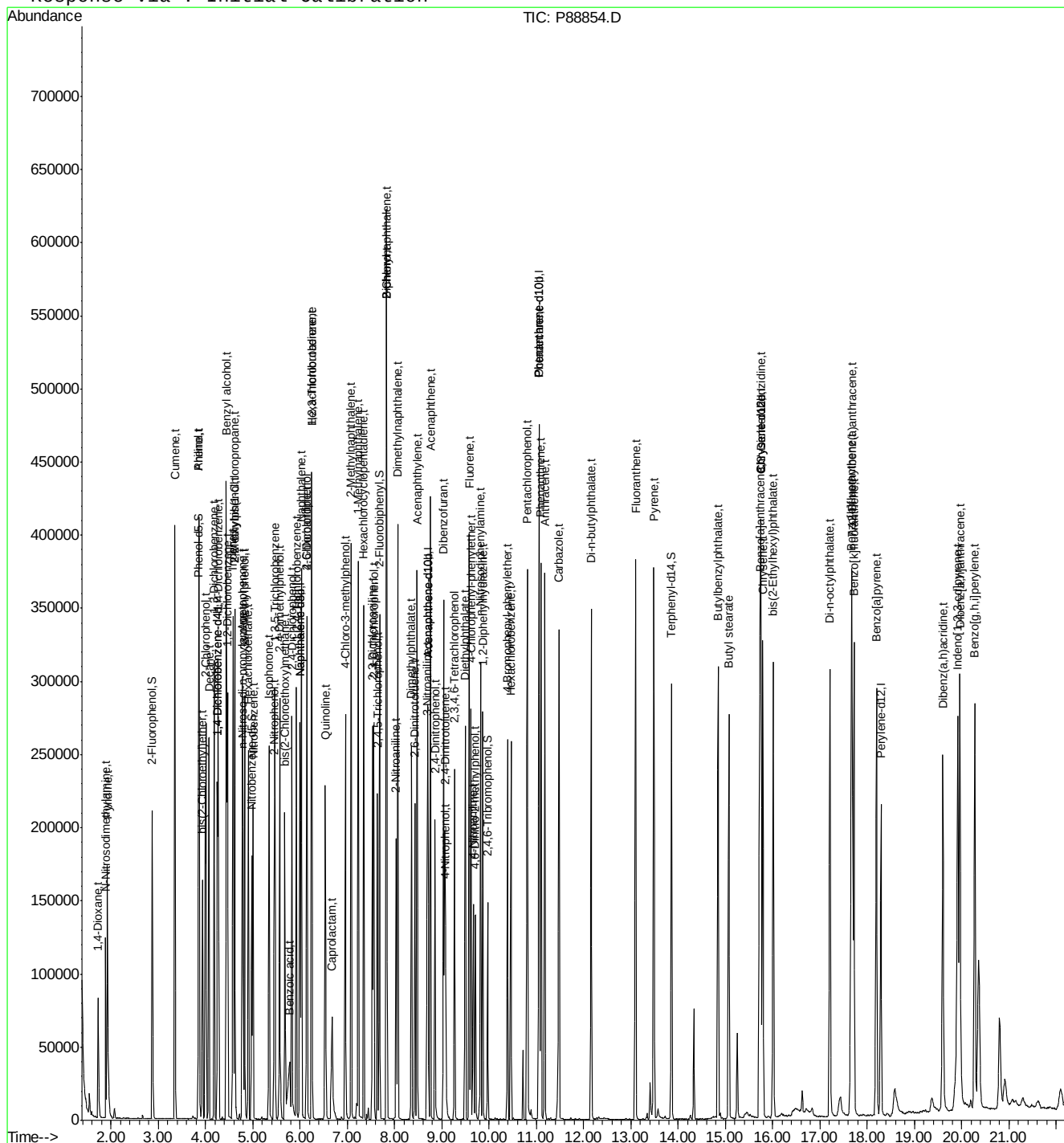
Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP3796\P88854.D
Acq On : 9 Sep 2014 4:35 pm
Sample : cc3771-50
Misc : op76634,ep3796
MS Integration Params: rteint.p
Quant Time: Sep 10 9:47 2014 Qu

Vial: 2
Operator: ashleyd
Inst : MSP
Multiplr: 1.00

Quant Results File: MP3770.RES

Method : C:\MSDCHEM\1\METHODS\MP3770.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Sat Sep 06 12:29:44 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP3796\P88855.D Vial: 3
 Acq On : 9 Sep 2014 5:04 pm Operator: ashleyd
 Sample : cc3770-25 Inst : MSP
 Misc : op76634,ep3796 Multiplr: 1.00
 MS Integration Params: rteint.p
 Quant Time: Sep 09 17:26:40 2014 Quant Results File: MP3770.RES

Quant Method : C:\MSDCHEM\1\METHODS\MP3770.M (RTE Integrator)
 Title : Semi Volatile Extractables by GC/MS
 Last Update : Sat Sep 06 12:29:44 2014
 Response via : Initial Calibration
 DataAcq Meth : MP3770

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.25	152	45390	40.00	ppb	-0.04
24) Naphthalene-d8	5.99	136	165732	40.00	ppb	-0.05
47) Acenaphthene-d10	8.70	164	86113	40.00	ppb	-0.05
69) Phenanthrene-d10	11.05	188	142629	40.00	ppb	-0.06
83) Chrysene-d12	15.73	240	137599	40.00	ppb	-0.07
92) Perylene-d12	18.28	264	129704	40.00	ppb	-0.07
102) 1,4-Dichlorobenzene-d4b	4.25	152	45390	40.00	ppb	-0.04
104) Phenanthrene-d10b	11.05	188	142629	40.00	ppb	0.05
106) Chrysene-d12b	15.73	240	137599	40.00	ppb	-0.07
108) Naphthalene-d8b	5.99	136	165732	40.00	ppb	-0.05
110) Acenaphthene-d10b	8.70	164	86113	40.00	ppb	-0.05

System Monitoring Compounds

5) 2-Fluorophenol	0.00	112	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
8) Phenol-d5	0.00	99	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
25) Nitrobenzene-d5	0.00	82	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
51) 2-Fluorobiphenyl	0.00	172	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
73) 2,4,6-Tribromophenol	0.00	330	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
85) Terphenyl-d14	0.00	244	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	

Target Compounds

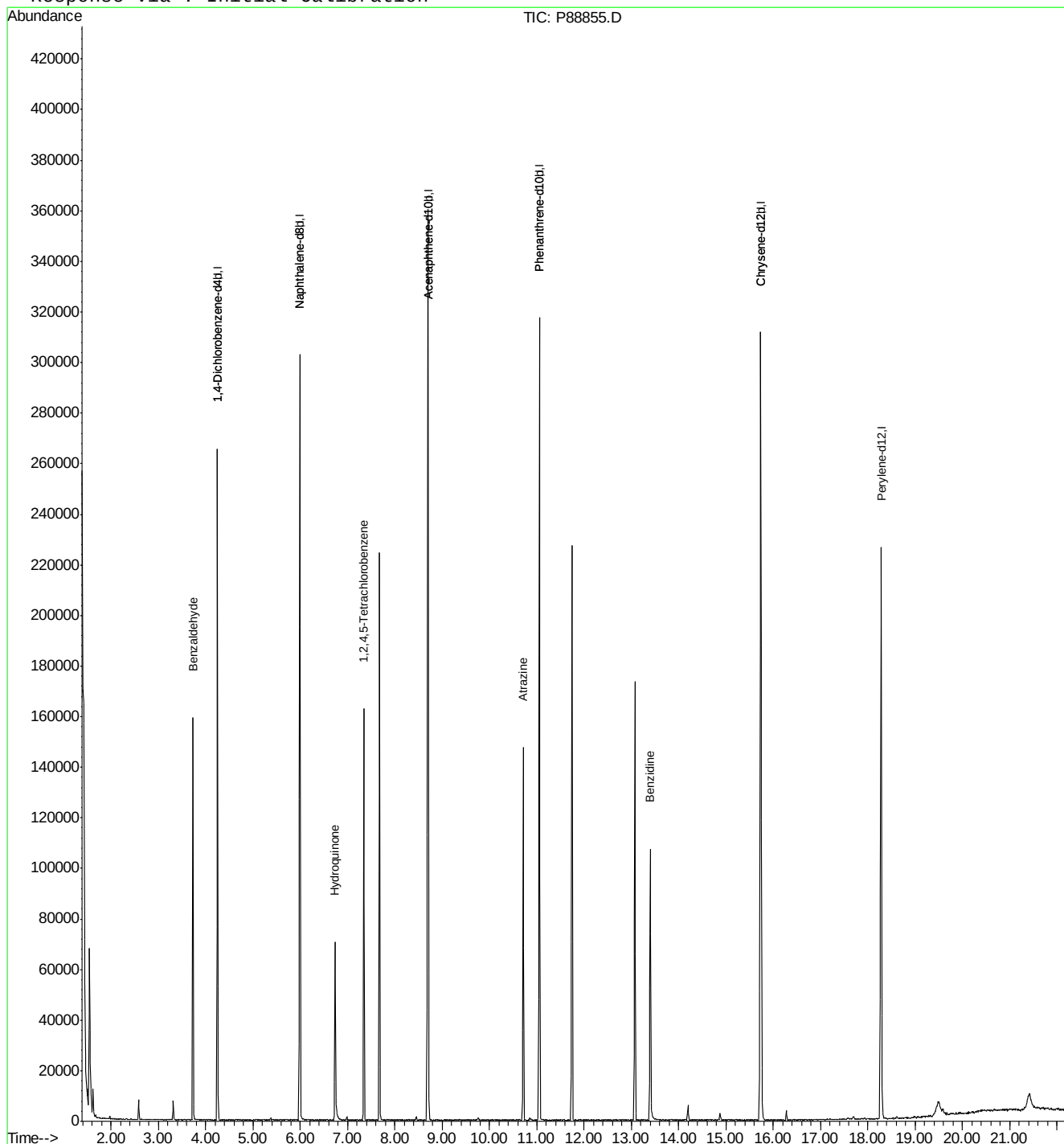
						Qvalue
103) Benzaldehyde	3.73	105	33914	23.42	ppb	97
105) Atrazine	10.72	200	21038	28.98	ppb	97
107) Benzidine	13.40	184	60789	26.87	ppb	98
109) Hydroquinone	6.73	110	39372	35.92	ppb	98
111) 1,2,4,5-Tetrachlorobenzene	7.35	216	34617	25.26	ppb	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 P88855.D MP3770.M Wed Sep 10 09:53:53 2014

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP3796\P88855.D Vial: 3
Acq On : 9 Sep 2014 5:04 pm Operator: ashleyd
Sample : cc3770-25 Inst : MSP
Misc : op76634,ep3796 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 10 9:50 2014 Quant Results File: MP3770.RES

Method : C:\MSDCHEM\1\METHODS\MP3770.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Sat Sep 06 12:29:44 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ez4711\
 Data File : z94832.D
 Acq On : 26 Aug 2014 1:32 pm
 Operator : ashleyv
 Sample : icc4711-50
 Misc : op76603,ez4711
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 26 15:58:35 2014
 Quant Method : C:\msdchem\1\METHODS\MZ4711.M
 Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
 QLast Update : Tue Aug 26 15:57:36 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	3.506	152	203248	40.00	ppb	0.00
24) Naphthalene-d8	4.841	136	734087	40.00	ppb	0.00
47) Acenaphthene-d10	6.898	164	460312	40.00	ppb	0.00
69) Phenanthrene-d10	8.693	188	840766	40.00	ppb	0.00
83) Chrysene-d12	12.416	240	992879	40.00	ppb	0.00
92) Perylene-d12	14.462	264	960238	40.00	ppb	0.00
102) 1,4-Dichlorobenzene-d4a	3.506	152	203248	40.00	ppb	0.00
104) Phenanthrene-d10a	8.693	188	840766	40.00	ppb	0.00
107) Chrysene-d12a	12.416	240	992879	40.00	ppb	0.00
110) Acenaphthene-d10a	6.898	164	460312	40.00	ppb	0.00
112) Naphthalene-d8a	4.841	136	734087	40.00	ppb	0.00
114) Chrysene-d12b	12.416	240	992879	40.00	ppb	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	2.416	112	296257	50.00	ppb	0.00
Spiked Amount 50.000			Recovery =	100.00%		
8) Phenol-d5	3.174	99	367159	50.00	ppb	0.00
Spiked Amount 50.000			Recovery =	100.00%		
25) Nitrobenzene-d5	4.066	82	392635	50.00	ppb	0.00
Spiked Amount 50.000			Recovery =	100.00%		
51) 2-Fluorobiphenyl	6.112	172	792496	50.00	ppb	0.00
Spiked Amount 50.000			Recovery =	100.00%		
73) 2,4,6-Tribromophenol	7.854	330	168892	50.00	ppb	0.00
Spiked Amount 50.000			Recovery =	100.00%		
86) Terphenyl-d14	10.888	244	1035301	50.00	ppb	0.00
Spiked Amount 50.000			Recovery =	100.00%		
106) o-terphenyl	0.000	230	0	0.00	ppb	
Spiked Amount 50.000			Recovery =	0.00%		
109) 1-chlorooctadecane	0.000	57	0d	0.00	ppb	
Spiked Amount 50.000			Recovery =	0.00%		
Target Compounds						
						Qvalue
2) 1,4-Dioxane	1.502	88	107015	50.00	ppb	100
3) Pyridine	1.662	79	279530	50.00	ppb	100
4) N-Nitrosodimethylamine	1.636	74	168517	50.00	ppb	100
6) Indene	3.757	116	530121	50.00	ppb	100
7) Cumene	2.800	105	833565	50.00	ppb	100
9) Phenol	3.185	94	446429	50.00	ppb	100
10) Aniline	3.201	93	448324	50.00	ppb	100
11) bis(2-Chloroethyl)ether	3.254	93	290067	50.00	ppb	100
12) 2-Chlorophenol	3.313	128	369330	50.00	ppb	100
13) Decane	3.345	43	617883	49.67	ppb	100
14) 1,3-Dichlorobenzene	3.452	146	432469	50.00	ppb	100
15) 1,4-Dichlorobenzene	3.522	146	430360	50.00	ppb	100
16) Benzyl alcohol	3.644	108	224718	50.00	ppb	100
17) 1,2-Dichlorobenzene	3.671	146	400496	50.00	ppb	100
18) Acetophenone	3.912	105	500901	50.00	ppb	100
19) 2-Methylphenol	3.762	108	294499	50.00	ppb	100
20) 2,2'-oxybis(1-Chloropr...	3.778	121	112287	50.00	ppb	100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ez4711\
 Data File : z94832.D
 Acq On : 26 Aug 2014 1:32 pm
 Operator : ashleyv
 Sample : icc4711-50
 Misc : op76603,ez4711
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 26 15:58:35 2014
 Quant Method : C:\msdchem\1\METHODS\MZ4711.M
 Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
 QLast Update : Tue Aug 26 15:57:36 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
21) 3&4-Methylphenol	3.928	108	312230	50.00	ppb	100
22) n-Nitroso-di-n-propyla...	3.912	70	269369	50.00	ppb	100
23) Hexachloroethane	4.008	201	182803	50.00	ppb	100
26) Nitrobenzene	4.088	77	397815	50.00	ppb	100
27) Quinoline	5.258	129	633386	50.00	ppb	100
28) Isophorone	4.344	82	663790	50.00	ppb	100
29) 2-Nitrophenol	4.430	139	206537	50.00	ppb	100
30) 2,4-Dimethylphenol	4.494	107	388031	50.00	ppb	100
31) Benzoic Acid	4.649	105	288872m	49.31	ppb	
32) bis(2-Chloroethoxy)met...	4.590	93	360890	50.00	ppb	100
33) 2,4-Dichlorophenol	4.702	162	329195	50.00	ppb	100
34) 2,6-Dichlorophenol	4.948	162	321387	50.00	ppb	100
35) 1,3,5-Trichlorobenzene	4.435	180	363929	50.00	ppb	100
36) 1,2,4-Trichlorobenzene	4.782	180	363914	50.00	ppb	100
37) 1,2,3-Trichlorobenzene	5.033	180	351270	50.00	ppb	100
38) Naphthalene	4.868	128	1072319	50.00	ppb	100
39) 4-Chloroaniline	4.943	127	429476	50.00	ppb	100
40) 2,3-Dichloroaniline	6.006	161	367946	50.00	ppb	100
41) Caprolactam	5.354	55	238603	50.00	ppb	100
42) Hexachlorobutadiene	5.012	225	270539	50.00	ppb	100
43) 4-Chloro-3-methylphenol	5.541	107	357324	50.00	ppb	100
44) 2-Methylnaphthalene	5.664	141	606629	50.00	ppb	100
45) 1-Methylnaphthalene	5.781	141	563036	50.00	ppb	100
46) Dimethylnaphthalene	6.412	156	649403	50.00	ppb	100
48) Hexachlorocyclopentadiene	5.851	237	415623	100.00	ppb	100
49) 2,4,6-Trichlorophenol	6.016	196	283457	50.00	ppb	100
50) 2,4,5-Trichlorophenol	6.070	196	276179	50.00	ppb	100
52) 2-Chloronaphthalene	6.235	162	728293	50.00	ppb	100
53) Biphenyl	6.225	154	818976	50.00	ppb	100
54) 2-Nitroaniline	6.380	65	271755	50.00	ppb	100
55) Dimethylphthalate	6.615	163	833108	50.00	ppb	100
56) Acenaphthylene	6.727	152	1129393	50.00	ppb	100
57) 2,6-Dinitrotoluene	6.684	165	186262	50.00	ppb	100
58) 3-Nitroaniline	6.876	138	190524	50.00	ppb	100
59) Acenaphthene	6.935	153	699327	50.00	ppb	100
60) 2,4-Dinitrophenol	7.021	184	229949	100.00	ppb	100
61) 4-Nitrophenol	7.144	109	149053	50.00	ppb	100
62) Dibenzofuran	7.149	168	975093	50.00	ppb	100
63) 2,4-Dinitrotoluene	7.170	165	264338	50.00	ppb	100
64) 2,3,4,6-Tetrachlorophenol	7.315	232	263085	50.00	ppb	100
65) Diethylphthalate	7.475	149	859651	50.00	ppb	100
66) Fluorene	7.560	166	820973	50.00	ppb	100
67) 4-Chlorophenyl-phenyle...	7.576	204	422853	50.00	ppb	100
68) 4-Nitroaniline	7.619	138	194317	50.00	ppb	100
70) 4,6-Dinitro-2-methylph...	7.662	198	174179	50.00	ppb	100
71) n-Nitrosodiphenylamine	7.731	169	596759	50.00	ppb	100
72) 1,2-Diphenylhydrazine	7.769	77	799236	50.00	ppb	100
74) 4-Bromophenyl-phenylether	8.164	248	274950	50.00	ppb	100
75) Hexachlorobenzene	8.217	284	320999	50.00	ppb	100
76) Pentachlorophenol	8.479	266	393239	100.00	ppb	100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ez4711\
 Data File : z94832.D
 Acq On : 26 Aug 2014 1:32 pm
 Operator : ashleyv
 Sample : icc4711-50
 Misc : op76603,ez4711
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 26 15:58:35 2014
 Quant Method : C:\msdchem\1\METHODS\MZ4711.M
 Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
 QLast Update : Tue Aug 26 15:57:36 2014
 Response via : Initial Calibration

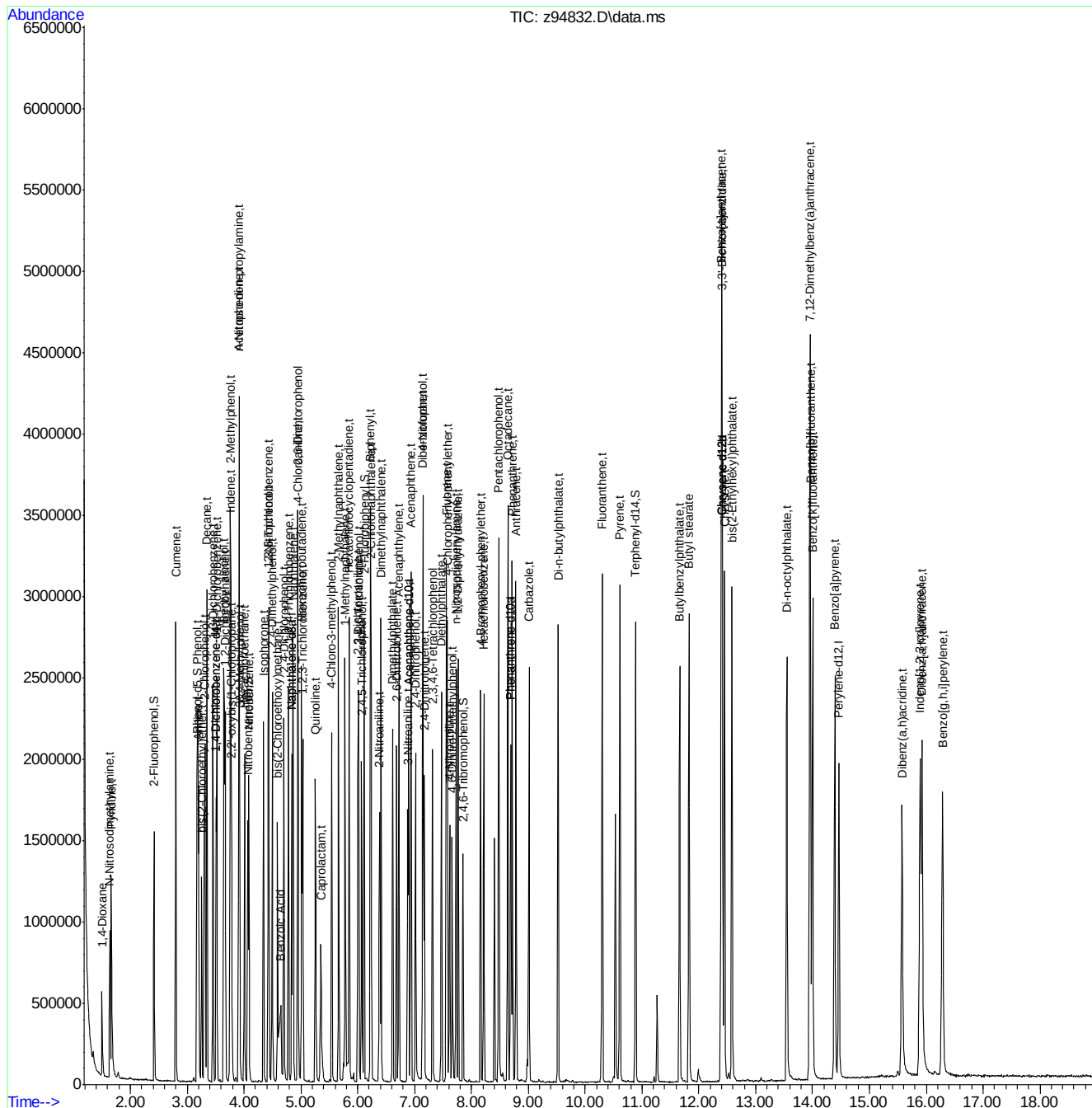
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
77) Phenanthrene	8.720	178	1229339	50.00	ppb	100
78) Anthracene	8.784	178	1241132	50.00	ppb	100
79) Carbazole	9.013	167	1034540	50.00	ppb	100
80) Di-n-butylphthalate	9.526	149	1471889	50.00	ppb	100
81) Fluoranthene	10.301	202	1453653	50.00	ppb	100
82) Octadecane	8.639	57	683095	50.00	ppb	100
84) Pyrene	10.611	202	1525324	50.00	ppb	100
85) Butyl stearate	11.829	56	508612	50.00	ppb	100
87) Butylbenzylphthalate	11.663	149	658056	50.00	ppb	100
88) Benzo[a]anthracene	12.400	228	1539823	50.00	ppb	100
89) 3,3'-Dichlorobenzidine	12.406	252	556542	50.00	ppb	100
90) Chrysene	12.454	228	1442977	50.00	ppb	100
91) bis(2-Ethylhexyl)phtha...	12.582	149	916213	50.00	ppb	100
93) Di-n-octylphthalate	13.549	149	1584737	50.00	ppb	100
94) Benzo[b]fluoranthene	13.966	252	1621803	50.00	ppb	100
95) Benzo[k]fluoranthene	14.003	252	1551817	50.00	ppb	100
96) Benzo[a]pyrene	14.393	252	1417678	50.00	ppb	100
97) Indeno[1,2,3-cd]pyrene	15.894	276	1451153	50.00	ppb	100
98) Dibenz(a,h)acridine	15.579	279	1169944	50.00	ppb	100
99) Dibenz[a,h]anthracene	15.926	278	1452868	50.00	ppb	100
100) 7,12-Dimethylbenz(a)an...	13.955	256	702634	50.00	ppb	100
101) Benzo[g,h,i]perylene	16.289	276	1407639	50.00	ppb	100

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

Quantitation Report (QT Reviewed)

```
Data Path   : C:\msdchem\1\DATA\ez4711\
Data File   : z94832.D
Acq On      : 26 Aug 2014    1:32 pm
Operator    : ashleyv
Sample      : icc4711-50
Misc        : op76603,ez4711
ALS Vial    : 2      Sample Multiplier: 1
```

Quant Time: Aug 26 15:58:35 2014
Quant Method : C:\msdchem\1\METHODS\MZ4711.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Tue Aug 26 15:57:36 2014
Response via : Initial Calibration



9.6.54

Manual Integration Approval Summary

Sample Number:

EZ4711-ICC4711

Method:

SW846 8270D

Lab FileID:

Z94832.D

Analyst approved:

08/27/14 12:49 Ashley Royal

Injection Time:

08/26/14 13:32

Supervisor approved:

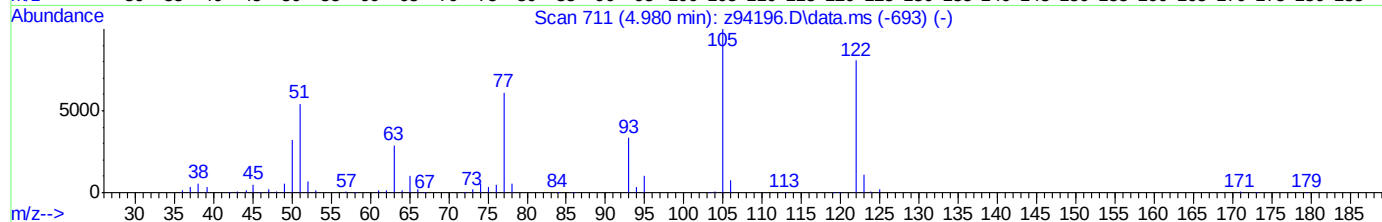
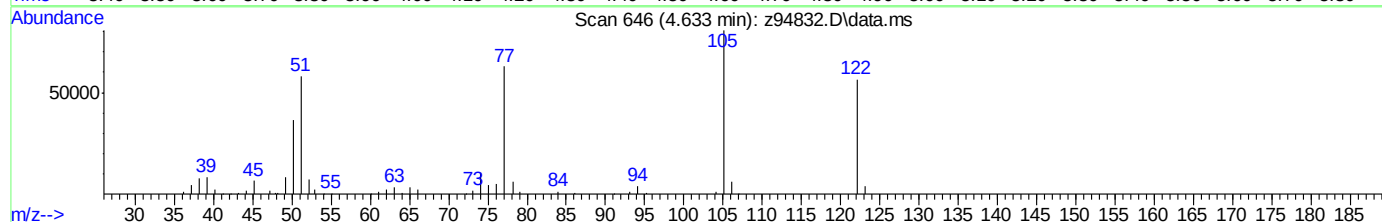
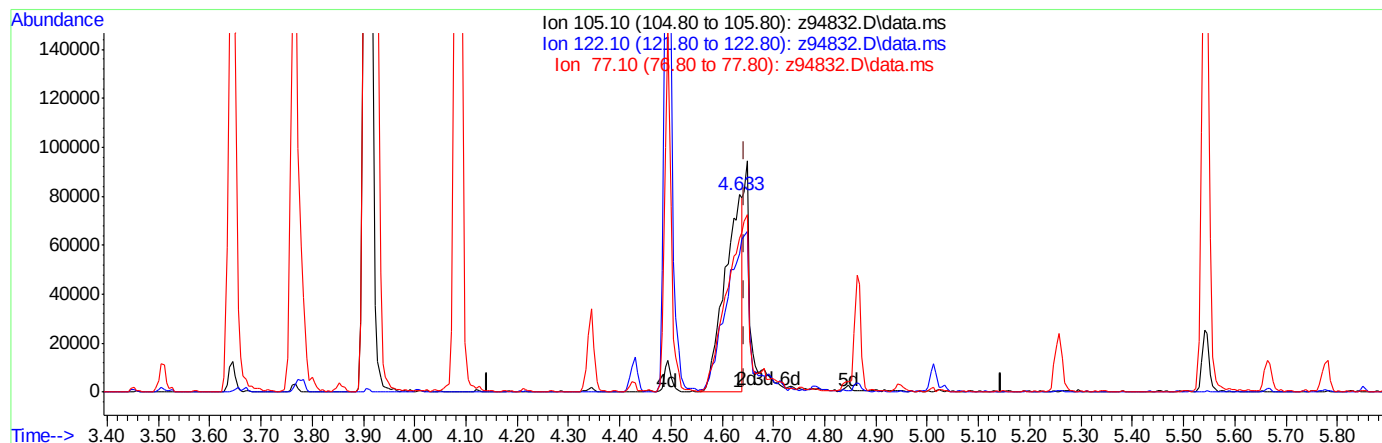
08/27/14 18:08 Nina Pandya

Parameter	CAS	Sig#	R.T. (min.)	Reason
Benzoic Acid	65-85-0		4.65	Poor instrument integration

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\ez4711\
Data File : z94832.D
Acq On : 26 Aug 2014 1:32 pm
Operator : ashleyv
Sample : icc4711-50
Misc : op76603,ez4711
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 26 13:50:59 2014
Quant Method : C:\MSDCHEM\1\METHODS\MZ4711.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Tue Aug 26 11:42:39 2014
Response via : Initial Calibration



TIC: z94832.D\data.ms

(31) Benzoic Acid

4.633min (-0.011) 43.85ppb

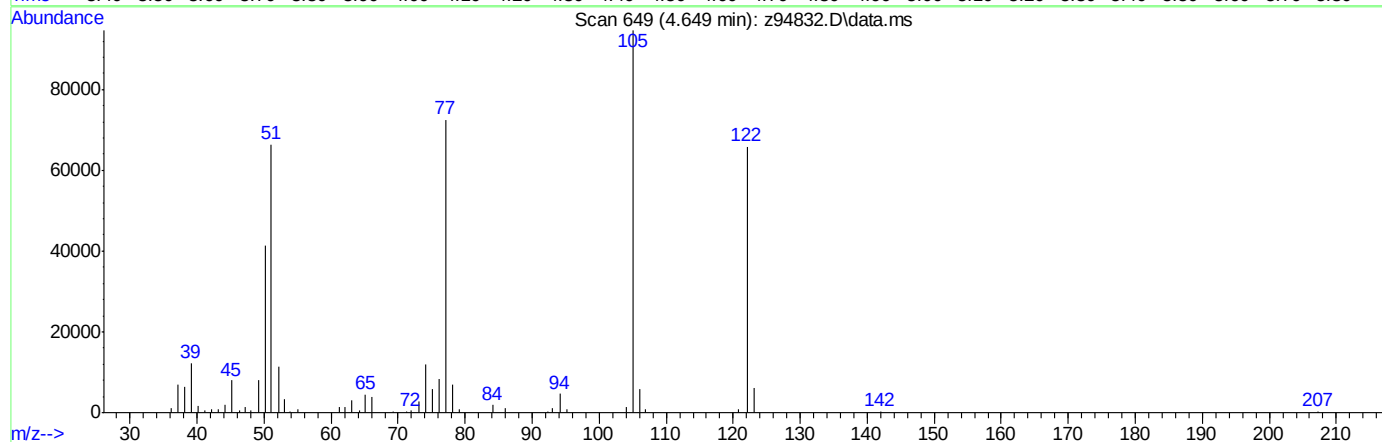
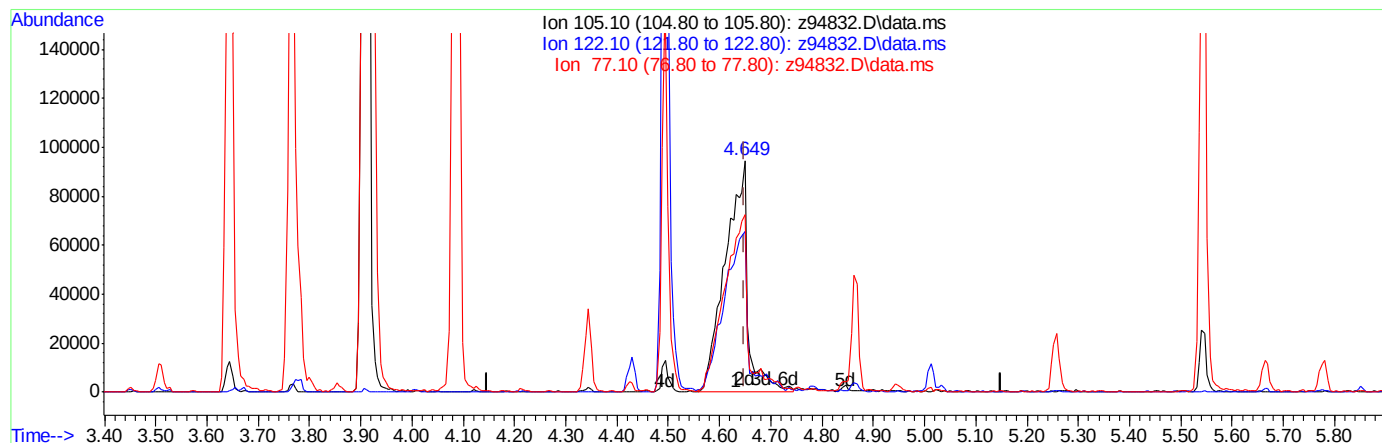
response 194136

Ion	Exp%	Act%
105.10	100	100
122.10	94.90	0.00#
77.10	64.30	0.00#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\ez4711\
Data File : z94832.D
Acq On : 26 Aug 2014 1:32 pm
Operator : ashleyv
Sample : icc4711-50
Misc : op76603,ez4711
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 26 15:58:35 2014
Quant Method : C:\msdchem\1\METHODS\MZ4711.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Tue Aug 26 15:57:36 2014
Response via : Initial Calibration



(31) Benzoic Acid

4.649min (0.000) 49.31ppb m

response 288872

Ion	Exp%	Act%
105.10	100	100
122.10	0.00	0.00
77.10	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ez4711\
 Data File : z94838.D
 Acq On : 26 Aug 2014 3:40 pm
 Operator : ashleyv
 Sample : ic4711-100
 Misc : op76603,ez4711
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 27 15:23:59 2014
 Quant Method : C:\msdchem\1\METHODS\MZ4711.M
 Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
 QLast Update : Tue Aug 26 16:04:04 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	3.511	152	404400	40.00	ppb	0.00
24) Naphthalene-d8	4.847	136	1500877	40.00	ppb	0.00
47) Acenaphthene-d10	6.903	164	902874	40.00	ppb	0.00
69) Phenanthrene-d10	8.698	188	1640319	40.00	ppb	0.00
83) Chrysene-d12	12.427	240	1891917	40.00	ppb	0.00
92) Perylene-d12	14.473	264	1687947	40.00	ppb	0.00
102) 1,4-Dichlorobenzene-d4a	3.511	152	404400	40.00	ppb	0.00
104) Phenanthrene-d10a	8.698	188	1640319	40.00	ppb	0.00
107) Chrysene-d12a	12.427	240	1891917	40.00	ppb	0.00
110) Acenaphthene-d10a	6.903	164	902874	40.00	ppb	0.00
112) Naphthalene-d8a	4.847	136	1500877	40.00	ppb	0.00
114) Chrysene-d12b	12.427	240	1891917	40.00	ppb	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	2.421	112	1244160	88.53	ppb	0.00
Spiked Amount 50.000			Recovery	=	177.06%	
8) Phenol-d5	3.185	99	1538139	84.46	ppb	0.00
Spiked Amount 50.000			Recovery	=	168.92%	
25) Nitrobenzene-d5	4.077	82	1525792	80.09	ppb	0.00
Spiked Amount 50.000			Recovery	=	160.18%	
51) 2-Fluorobiphenyl	6.118	172	3096822	82.87	ppb	0.00
Spiked Amount 50.000			Recovery	=	165.74%	
73) 2,4,6-Tribromophenol	7.865	330	627489	86.20	ppb	0.00
Spiked Amount 50.000			Recovery	=	172.40%	
86) Terphenyl-d14	10.899	244	3887368	83.73	ppb	0.00
Spiked Amount 50.000			Recovery	=	167.46%	
106) o-terphenyl	0.000	230	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
109) 1-chlorooctadecane	0.000	57	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
Target Compounds						
						Qvalue
2) 1,4-Dioxane	1.502	88	439636	84.52	ppb	96
3) Pyridine	1.663	79	1175452	91.99	ppb	94
4) N-Nitrosodimethylamine	1.641	74	713098	86.51	ppb	82
6) Indene	3.762	116	2236576	85.35	ppb	97
7) Cumene	2.806	105	3360550	80.65	ppb	97
9) Phenol	3.201	94	1933713	88.33	ppb	96
11) bis(2-Chloroethyl)ether	3.271	93	1209876	83.32	ppb	95
12) 2-Chlorophenol	3.324	128	1519416	86.99	ppb	99
13) Decane	3.351	43	2249982	78.15	ppb	86
14) 1,3-Dichlorobenzene	3.458	146	1702119	83.25	ppb	97
15) 1,4-Dichlorobenzene	3.527	146	1709863	79.80	ppb	98
16) Benzyl alcohol	3.661	108	923228	88.45	ppb	87
17) 1,2-Dichlorobenzene	3.677	146	1631648	81.13	ppb	97
18) Acetophenone	3.922	105	1943850	84.35	ppb	92
19) 2-Methylphenol	3.773	108	1197344	84.45	ppb	95
20) 2,2'-oxybis(1-Chloropr...	3.784	121	431867	80.59	ppb	# 89
21) 3&4-Methylphenol	3.944	108	1282101	86.63	ppb	97

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ez4711\
 Data File : z94838.D
 Acq On : 26 Aug 2014 3:40 pm
 Operator : ashleyv
 Sample : ic4711-100
 Misc : op76603,ez4711
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 27 15:23:59 2014
 Quant Method : C:\msdchem\1\METHODS\MZ4711.M
 Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
 QLast Update : Tue Aug 26 16:04:04 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
22) n-Nitroso-di-n-propyla...	3.928	70	979045	79.86	ppb	90
23) Hexachloroethane	4.013	201	683248	80.14	ppb	97
26) Nitrobenzene	4.099	77	1620189	82.71	ppb	98
27) Quinoline	5.285	129	2573601	83.04	ppb	96
28) Isophorone	4.366	82	2590437	82.54	ppb	94
29) 2-Nitrophenol	4.441	139	818186	83.44	ppb	93
30) 2,4-Dimethylphenol	4.505	107	1534842	80.16	ppb	98
31) Benzoic Acid	4.697	105	1155207m	95.44	ppb	
32) bis(2-Chloroethoxy)met...	4.601	93	1482846	82.61	ppb	97
33) 2,4-Dichlorophenol	4.713	162	1288718	85.13	ppb	98
34) 2,6-Dichlorophenol	4.959	162	1268371	83.63	ppb	98
35) 1,3,5-Trichlorobenzene	4.446	180	1408474	77.46	ppb	98
36) 1,2,4-Trichlorobenzene	4.788	180	1451184	78.34	ppb	93
37) 1,2,3-Trichlorobenzene	5.039	180	1337040	82.34	ppb	99
38) Naphthalene	4.873	128	4426563	83.05	ppb	98
39) 4-Chloroaniline	4.959	127	1580941	94.75	ppb	94
40) 2,3-Dichloroaniline	6.011	161	1433159	81.12	ppb	98
41) Caprolactam	5.408	55	937225m	83.14	ppb	
42) Hexachlorobutadiene	5.018	225	995325	74.49	ppb	98
43) 4-Chloro-3-methylphenol	5.568	107	1384504	84.50	ppb	96
44) 2-Methylnaphthalene	5.675	141	2449868	85.04	ppb	95
45) 1-Methylnaphthalene	5.787	141	2250066	83.19	ppb	94
46) Dimethylnaphthalene	6.417	156	2556069	79.61	ppb	98
48) Hexachlorocyclopentadiene	5.856	237	1762422	293.04	ppb	99
49) 2,4,6-Trichlorophenol	6.027	196	1056678	85.66	ppb	100
50) 2,4,5-Trichlorophenol	6.086	196	1065946	88.48	ppb	97
52) 2-Chloronaphthalene	6.246	162	2849533	83.23	ppb	98
53) Biphenyl	6.236	154	3295771	84.69	ppb	98
54) 2-Nitroaniline	6.401	65	1050187	91.38	ppb	88
55) Dimethylphthalate	6.631	163	3228570	83.22	ppb	99
56) Acenaphthylene	6.732	152	4549871	85.80	ppb	99
57) 2,6-Dinitrotoluene	6.700	165	721986	93.10	ppb	93
58) 3-Nitroaniline	6.898	138	769776	91.42	ppb	94
59) Acenaphthene	6.946	153	2786207	84.93	ppb	99
60) 2,4-Dinitrophenol	7.042	184	1018266	212.10	ppb	80
61) 4-Nitrophenol	7.165	109	512803	97.41	ppb	# 51
62) Dibenzofuran	7.160	168	3816618	81.85	ppb	99
63) 2,4-Dinitrotoluene	7.187	165	1025789	87.79	ppb	87
64) 2,3,4,6-Tetrachlorophenol	7.325	232	988526	88.53	ppb	98
65) Diethylphthalate	7.491	149	3257274	82.81	ppb	99
66) Fluorene	7.571	166	3205042	84.69	ppb	99
67) 4-Chlorophenyl-phenyle...	7.587	204	1625406	84.28	ppb	90
68) 4-Nitroaniline	7.651	138	735352	86.02	ppb	94
70) 4,6-Dinitro-2-methylph...	7.689	198	724073	118.17	ppb	89
71) n-Nitrosodiphenylamine	7.742	169	2342266	86.06	ppb	97
72) 1,2-Diphenylhydrazine	7.780	77	3141573	87.33	ppb	98
74) 4-Bromophenyl-phenylether	8.175	248	1037914	82.16	ppb	93
75) Hexachlorobenzene	8.228	284	1227190	81.39	ppb	94
76) Pentachlorophenol	8.490	266	1487984	194.68	ppb	98
77) Phenanthrene	8.736	178	4793242	82.34	ppb	98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ez4711\
 Data File : z94838.D
 Acq On : 26 Aug 2014 3:40 pm
 Operator : ashleyv
 Sample : ic4711-100
 Misc : op76603,ez4711
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 27 15:23:59 2014
 Quant Method : C:\msdchem\1\METHODS\MZ4711.M
 Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
 QLast Update : Tue Aug 26 16:04:04 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
78) Anthracene	8.800	178	4837882	84.39	ppb	100
79) Carbazole	9.024	167	4070506	87.57	ppb	99
80) Di-n-butylphthalate	9.532	149	5727711	89.71	ppb	99
81) Fluoranthene	10.312	202	5641611	85.81	ppb	94
82) Octadecane	8.645	57	2666296	83.93	ppb	91
84) Pyrene	10.627	202	5910980	84.52	ppb	94
85) Butyl stearate	11.834	56	2016096	87.94	ppb	96
87) Butylbenzylphthalate	11.674	149	2572170	87.50	ppb	97
88) Benzo[a]anthracene	12.411	228	5764529	80.34	ppb	99
89) 3,3'-Dichlorobenzidine	12.422	252	2013952	85.63	ppb	97
90) Chrysene	12.475	228	5465325	86.82	ppb	99
91) bis(2-Ethylhexyl)phtha...	12.588	149	3521780	87.92	ppb	98
93) Di-n-octylphthalate	13.560	149	6269100	99.59	ppb	97
94) Benzo[b]fluoranthene	13.993	252	6132043	88.79	ppb	98
95) Benzo[k]fluoranthene	14.030	252	5668858	88.90	ppb	98
96) Benzo[a]pyrene	14.409	252	5308554	89.28	ppb	97
97) Indeno[1,2,3-cd]pyrene	15.921	276	5922348m	89.82	ppb	
98) Dibenz(a,h)acridine	15.595	279	4490655	97.75	ppb	98
99) Dibenz[a,h]anthracene	15.958	278	5567264	98.72	ppb	98
100) 7,12-Dimethylbenz(a)an...	13.977	256	2568421	87.93	ppb	97
101) Benzo[g,h,i]perylene	16.327	276	5385357	92.52	ppb	98

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

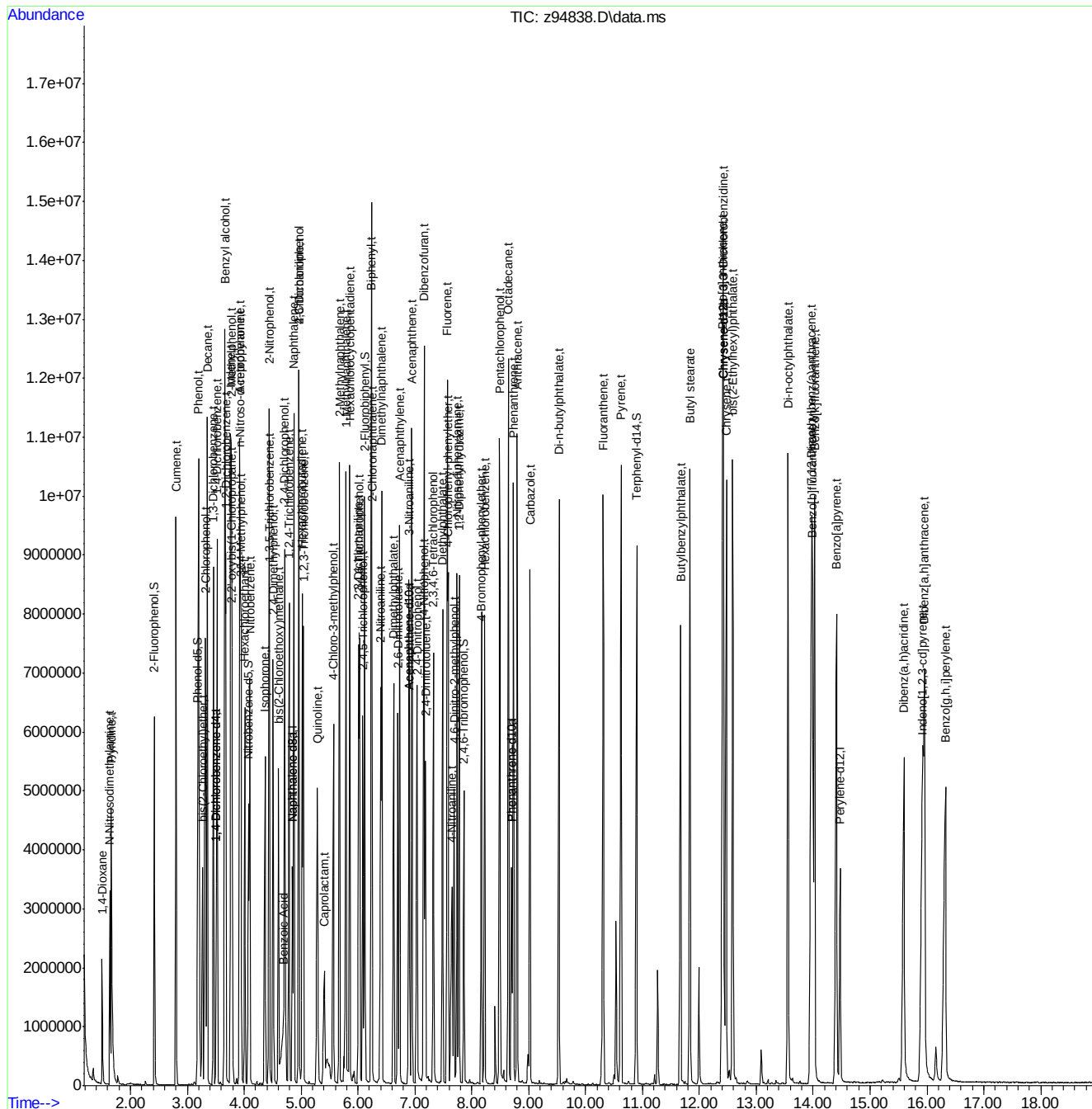
Quantitation Report (QT Reviewed)

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Data Path   : C:\msdchem\1\DATA\ez4711\
Data File   : z94838.D
Acq On      : 26 Aug 2014    3:40 pm
Operator    : ashleyv
Sample      : ic4711-100
Misc        : op76603,ez4711
ALS Vial    : 8      Sample Multiplier: 1

```

Quant Time: Aug 27 15:23:59 2014
Quant Method : C:\msdchem\1\METHODS\MZ4711.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Tue Aug 26 16:04:04 2014
Response via : Initial Calibration



MZ4711.M Wed Aug 27 15:24:22 2014 RTE

Page: 4

9.6.55

Manual Integration Approval Summary

Sample Number:

EZ4711-IC4711

Method:

SW846 8270D

Lab FileID:

Z94838.D

Analyst approved:

08/27/14 12:49 Ashley Royal

Injection Time:

08/26/14 15:40

Supervisor approved:

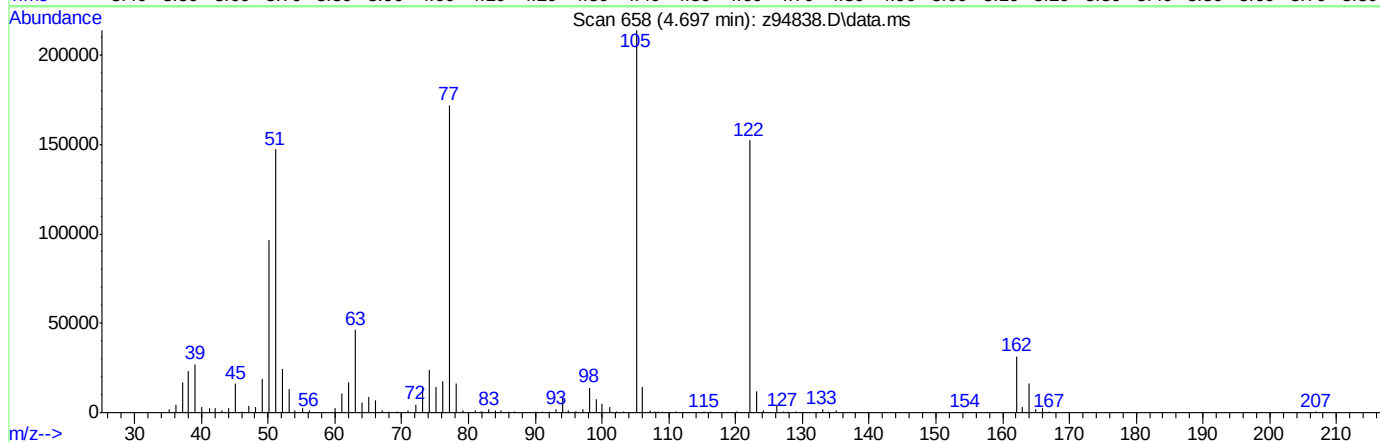
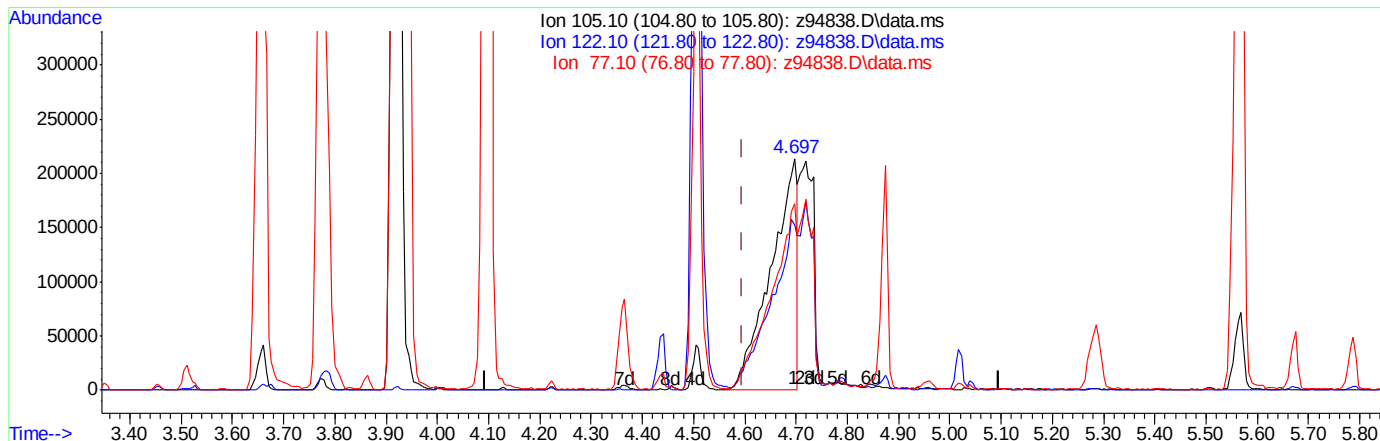
08/27/14 18:08 Nina Pandya

Parameter	CAS	Sig#	R.T. (min.)	Reason
Benzoic Acid	65-85-0		4.70	Poor instrument integration
Caprolactam	105-60-2		5.41	Poor instrument integration
Indeno(1,2,3-cd)pyrene	193-39-5		15.92	Poor instrument integration

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\ez4711\
Data File : z94838.D
Acq On : 26 Aug 2014 3:40 pm
Operator : ashleyv
Sample : ic4711-100
Misc : op76603,ez4711
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 26 16:02:40 2014
Quant Method : C:\msdchem\1\METHODS\MZ4711.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Tue Aug 26 16:01:21 2014
Response via : Initial Calibration



(31) Benzoic Acid

4.697min (+0.102) 61.25ppb

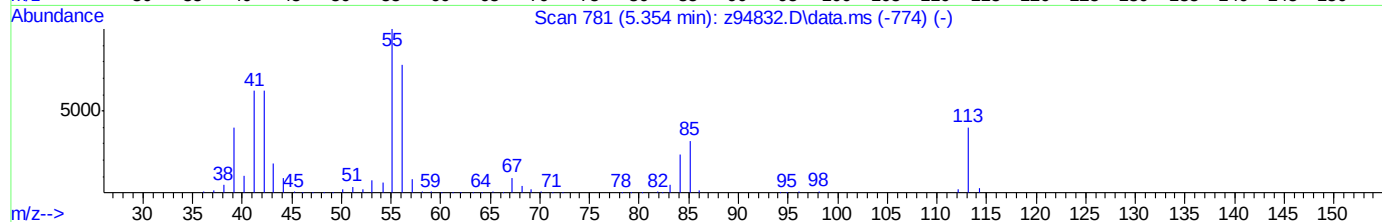
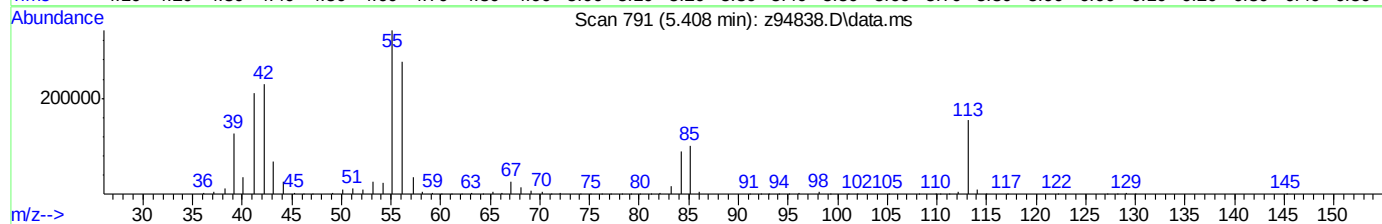
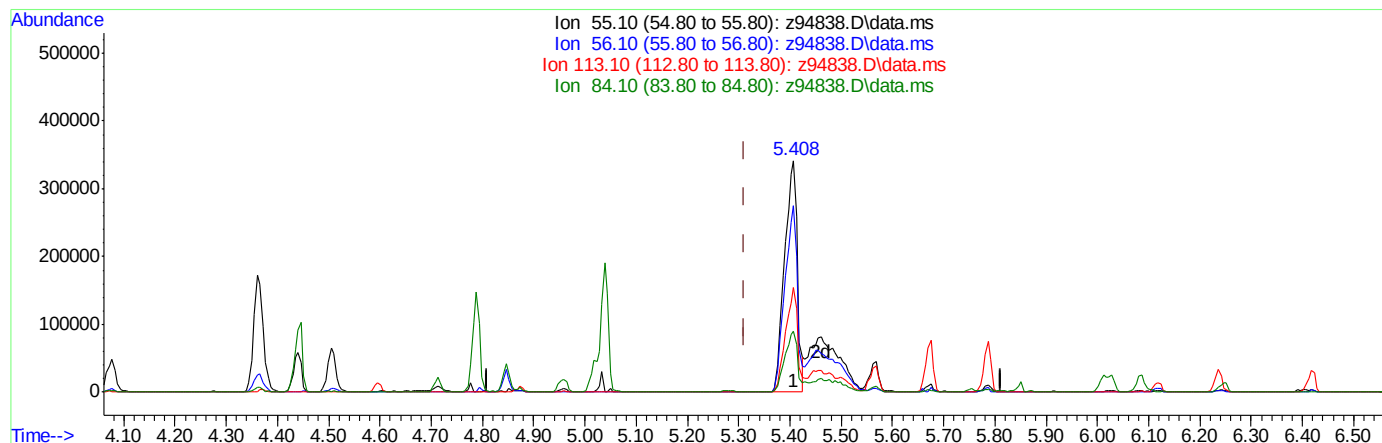
response 760827

Ion	Exp%	Act%
105.10	100	100
122.10	0.00	77.30#
77.10	0.00	78.34#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\ez4711\
Data File : z94838.D
Acq On : 26 Aug 2014 3:40 pm
Operator : ashleyv
Sample : ic4711-100
Misc : op76603,ez4711
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 26 16:02:40 2014
Quant Method : C:\msdchem\1\METHODS\MZ4711.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Tue Aug 26 16:01:21 2014
Response via : Initial Calibration



(41) Caprolactam (t)

5.408min (+0.096) 48.56ppb

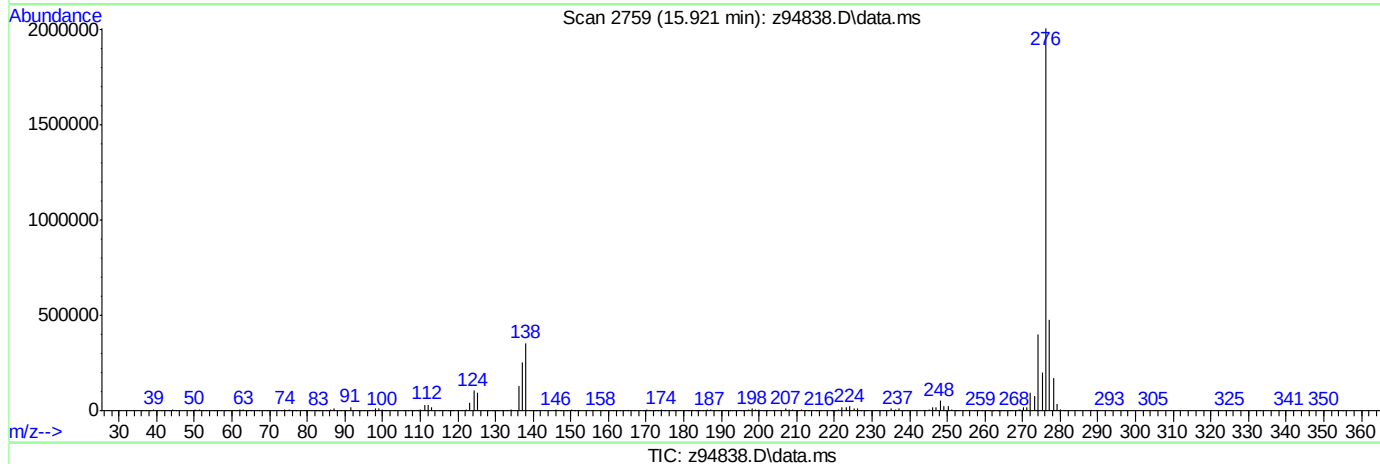
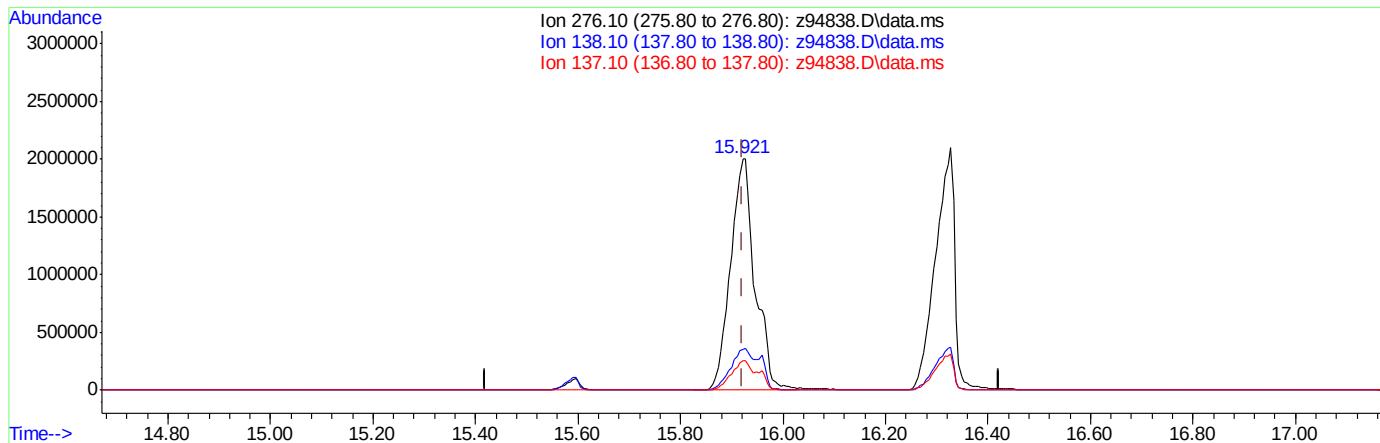
response 593570

Ion	Exp%	Act%
55.10	100	100
56.10	78.30	81.24
113.10	39.90	45.15
84.10	23.40	26.12

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\ez4711\
Data File : z94838.D
Acq On : 26 Aug 2014 3:40 pm
Operator : ashleyv
Sample : ic4711-100
Misc : op76603,ez4711
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 26 16:04:25 2014
Quant Method : C:\msdchem\1\METHODS\MZ4711.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Tue Aug 26 16:04:04 2014
Response via : Initial Calibration



(97) Indeno[1,2,3-cd]pyrene (t)

15.921min (0.000) 100.76ppb

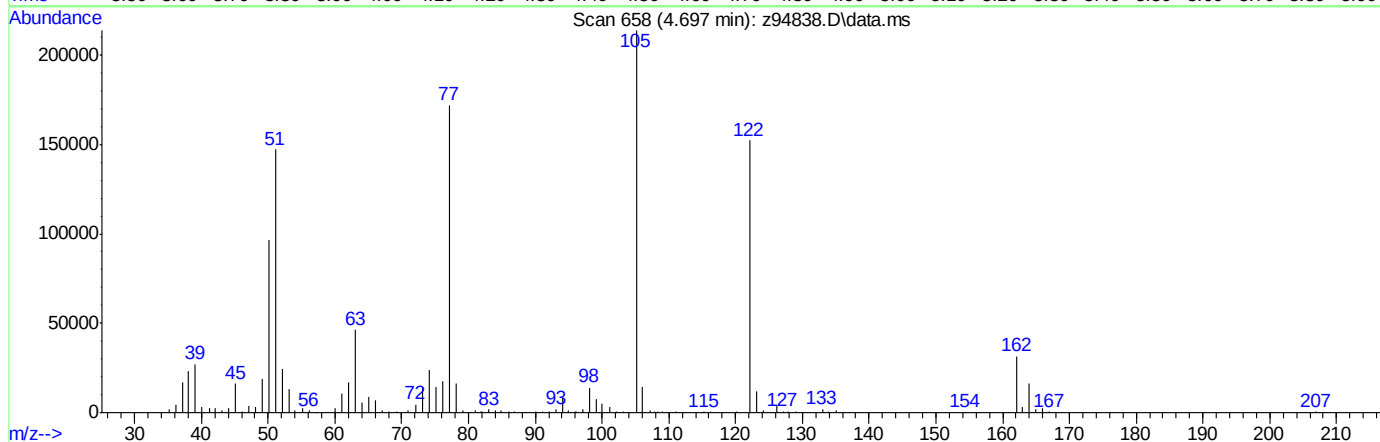
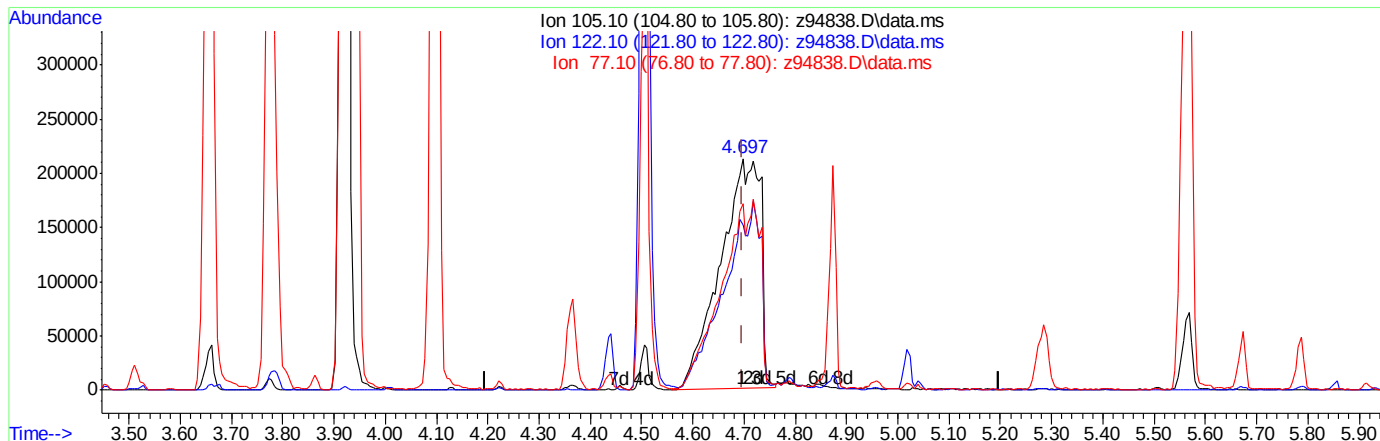
response 6643967

Ion	Exp%	Act%
276.10	100	100
138.10	13.00	17.67
137.10	9.90	12.64
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\ez4711\
Data File : z94838.D
Acq On : 26 Aug 2014 3:40 pm
Operator : ashleyv
Sample : ic4711-100
Misc : op76603,ez4711
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 26 16:05:13 2014
Quant Method : C:\msdchem\1\METHODS\MZ4711.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Tue Aug 26 16:04:04 2014
Response via : Initial Calibration



(31) Benzoic Acid

4.697min (0.000) 95.44ppb m

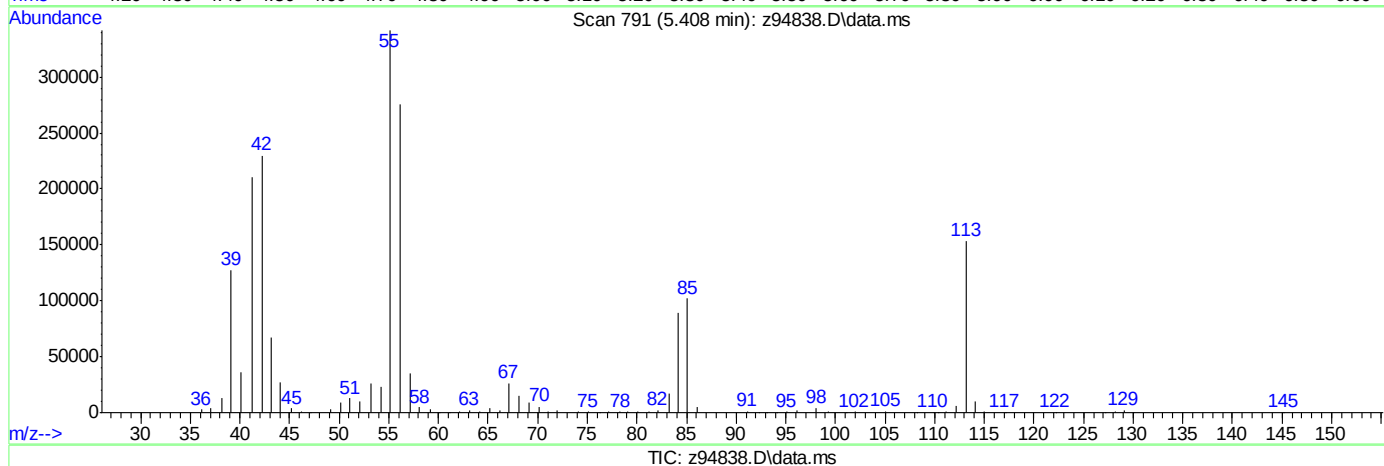
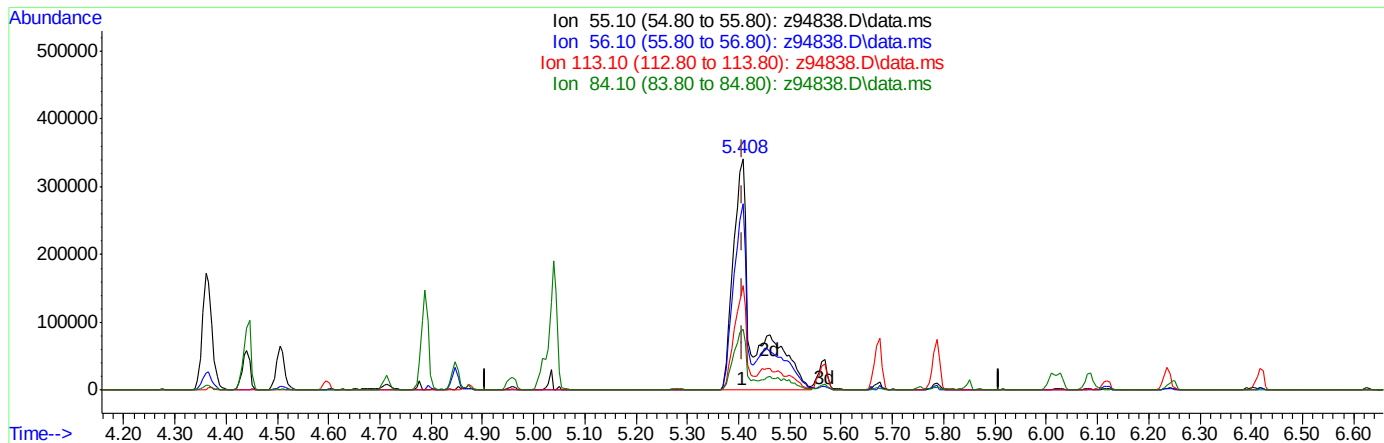
response 1155207

Ion	Exp%	Act%
105.10	100	100
122.10	0.00	50.91#
77.10	0.00	51.59#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\ez4711\
Data File : z94838.D
Acq On : 26 Aug 2014 3:40 pm
Operator : ashleyv
Sample : ic4711-100
Misc : op76603,ez4711
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 26 16:05:13 2014
Quant Method : C:\msdchem\1\METHODS\MZ4711.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Tue Aug 26 16:04:04 2014
Response via : Initial Calibration



(41) Caprolactam (t)

5.408min (0.000) 83.14ppb m

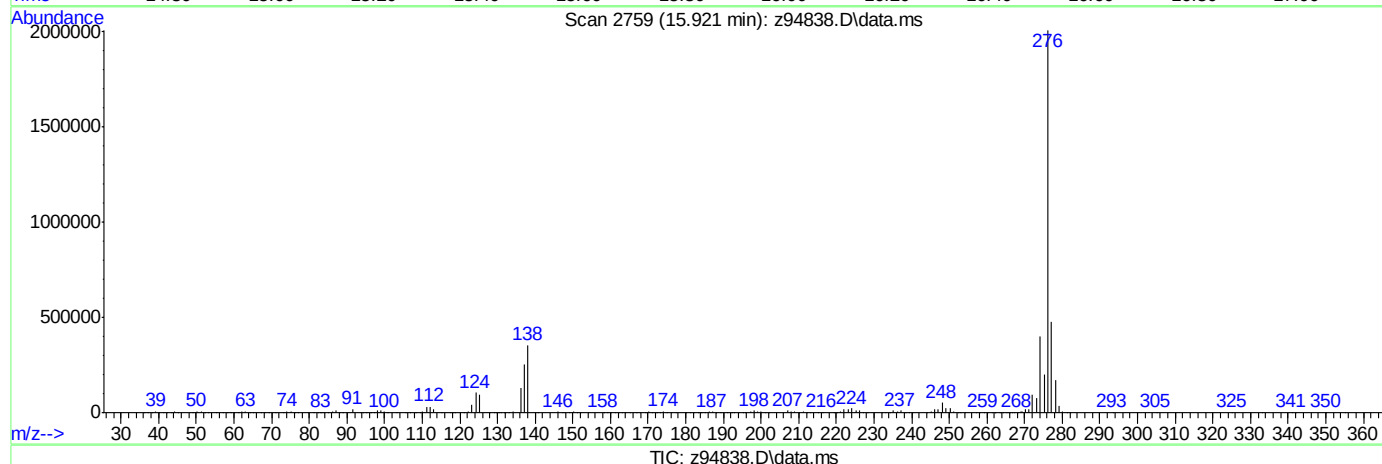
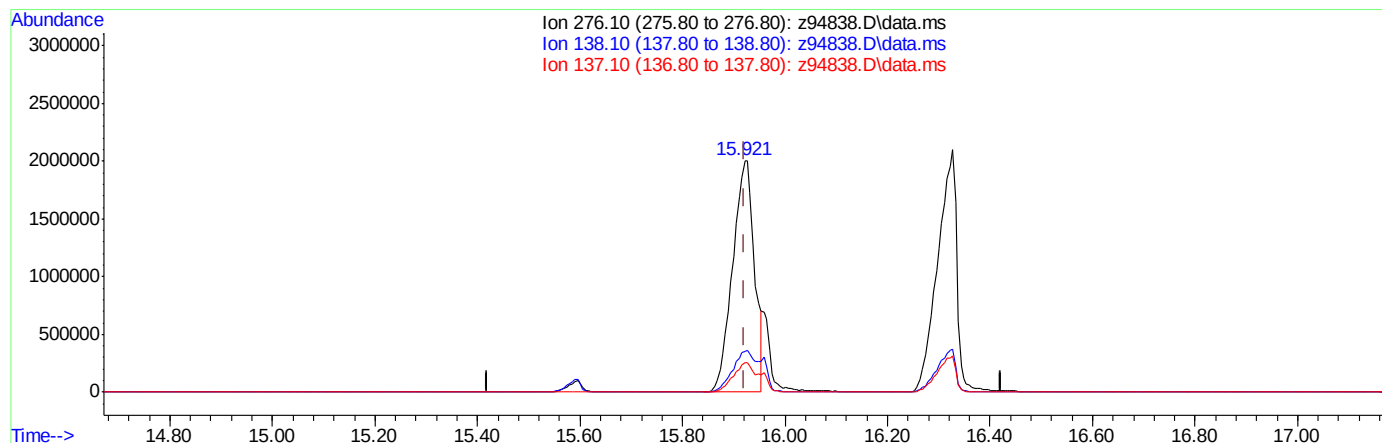
response 937225

Ion	Exp%	Act%
55.10	100	100
56.10	78.30	80.58
113.10	39.90	44.95
84.10	23.40	26.18

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\ez4711\
Data File : z94838.D
Acq On : 26 Aug 2014 3:40 pm
Operator : ashleyv
Sample : ic4711-100
Misc : op76603,ez4711
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 26 16:05:13 2014
Quant Method : C:\msdchem\1\METHODS\MZ4711.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Tue Aug 26 16:04:04 2014
Response via : Initial Calibration



(97) Indeno[1,2,3-cd]pyrene (t)

15.921min (0.000) 89.82ppb m

response 5922348

Ion	Exp%	Act%
276.10	100	100
138.10	13.00	17.71
137.10	9.90	12.64
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ez4711\
 Data File : z94839.D
 Acq On : 26 Aug 2014 4:06 pm
 Operator : ashleyv
 Sample : ic4711-2
 Misc : op76603,ez4711
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 27 10:58:28 2014
 Quant Method : C:\MSDCHEM\1\METHODS\MZ4711.M
 Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
 QLast Update : Wed Aug 27 10:57:46 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	3.506	152	439675	40.00	ppb	0.00
24) Naphthalene-d8	4.841	136	1661548	40.00	ppb	0.00
47) Acenaphthene-d10	6.898	164	1007605	40.00	ppb	0.00
69) Phenanthrene-d10	8.693	188	1830436	40.00	ppb	0.00
83) Chrysene-d12	12.411	240	2115711	40.00	ppb	0.00
92) Perylene-d12	14.468	264	1875678	40.00	ppb	0.00
102) 1,4-Dichlorobenzene-d4a	3.506	152	439675	40.00	ppb	0.00
104) Phenanthrene-d10a	8.693	188	1830436	40.00	ppb	0.00
107) Chrysene-d12a	12.411	240	2115711	40.00	ppb	0.00
110) Acenaphthene-d10a	6.898	164	1007605	40.00	ppb	0.00
112) Naphthalene-d8a	4.841	136	1661548	40.00	ppb	0.00
114) Chrysene-d12b	12.411	240	2115711	40.00	ppb	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	2.416	112	29201	2.09	ppb	0.00
Spiked Amount 50.000			Recovery	=	4.18%	
8) Phenol-d5	3.169	99	39524	2.20	ppb	0.00
Spiked Amount 50.000			Recovery	=	4.40%	
25) Nitrobenzene-d5	4.061	82	42156	2.18	ppb	0.00
Spiked Amount 50.000			Recovery	=	4.36%	
51) 2-Fluorobiphenyl	6.107	172	82361	2.12	ppb	0.00
Spiked Amount 50.000			Recovery	=	4.24%	
73) 2,4,6-Tribromophenol	7.849	330	15929	2.07	ppb	0.00
Spiked Amount 50.000			Recovery	=	4.14%	
86) Terphenyl-d14	10.883	244	102114	2.12	ppb	0.00
Spiked Amount 50.000			Recovery	=	4.24%	
106) o-terphenyl	0.000	230	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
109) 1-chlorooctadecane	0.000	57	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
Target Compounds						
						Qvalue
2) 1,4-Dioxane	1.502	88	11773	2.23	ppb	90
3) Pyridine	1.668	79	25778	2.03	ppb	81
4) N-Nitrosodimethylamine	1.641	74	16683	2.09	ppb	85
6) Indene	3.757	116	56793	2.19	ppb	98
7) Cumene	2.800	105	86610	2.16	ppb	96
9) Phenol	3.180	94	46711	2.13	ppb	94
10) Aniline	3.196	93	54217	2.55	ppb	90
11) bis(2-Chloroethyl)ether	3.255	93	31103	2.17	ppb	90
12) 2-Chlorophenol	3.308	128	38701	2.17	ppb	92
13) Decane	3.345	43	68611	2.31	ppb	97
14) 1,3-Dichlorobenzene	3.452	146	49685	2.32	ppb	95
15) 1,4-Dichlorobenzene	3.522	146	49201	2.32	ppb	98
16) Benzyl alcohol	3.639	108	25131	2.28	ppb	96
17) 1,2-Dichlorobenzene	3.666	146	42444	2.17	ppb	92
18) Acetophenone	3.906	105	53242	2.24	ppb	94
19) 2-Methylphenol	3.762	108	30247	2.15	ppb	93
20) 2,2'-oxybis(1-Chloropr...	3.778	121	12721	2.24	ppb #	91

9.6.56

9

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ez4711\
 Data File : z94839.D
 Acq On : 26 Aug 2014 4:06 pm
 Operator : ashleyv
 Sample : ic4711-2
 Misc : op76603,ez4711
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 27 10:58:28 2014
 Quant Method : C:\MSDCHEM\1\METHODS\MZ4711.M
 Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
 QLast Update : Wed Aug 27 10:57:46 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
21) 3&4-Methylphenol	3.917	108	33550	2.24	ppb	87
22) n-Nitroso-di-n-propyla...	3.906	70	27595	2.20	ppb	94
23) Hexachloroethane	4.008	201	19319	2.23	ppb	85
26) Nitrobenzene	4.083	77	44314	2.18	ppb	95
27) Quinoline	5.242	129	66879	2.12	ppb	94
28) Isophorone	4.339	82	66805	2.09	ppb	96
29) 2-Nitrophenol	4.424	139	21315	2.14	ppb	91
30) 2,4-Dimethylphenol	4.489	107	32635	1.97	ppb	89
31) Benzoic Acid	4.585	105	25452m	2.10	ppb	
32) bis(2-Chloroethoxy)met...	4.590	93	39240	2.14	ppb	95
33) 2,4-Dichlorophenol	4.702	162	32761	2.08	ppb	94
34) 2,6-Dichlorophenol	4.948	162	34130	2.17	ppb	94
35) 1,3,5-Trichlorobenzene	4.430	180	40291	2.22	ppb	87
36) 1,2,4-Trichlorobenzene	4.782	180	39247	2.17	ppb	94
37) 1,2,3-Trichlorobenzene	5.028	180	37824	2.19	ppb	91
38) Naphthalene	4.863	128	114298	2.15	ppb	99
39) 4-Chloroaniline	4.937	127	49199	2.32	ppb	95
40) 2,3-Dichloroaniline	6.000	161	37733	2.08	ppb	91
41) Caprolactam	5.311	55	25195	2.20	ppb	96
42) Hexachlorobutadiene	5.012	225	29465	2.25	ppb	97
43) 4-Chloro-3-methylphenol	5.536	107	36467	2.15	ppb	95
44) 2-Methylnaphthalene	5.664	141	63600	2.11	ppb	95
45) 1-Methylnaphthalene	5.776	141	60711	2.14	ppb	96
46) Dimethylnaphthalene	6.406	156	67661	2.13	ppb	97
48) Hexachlorocyclopentadiene	5.851	237	15823	2.44	ppb	90
49) 2,4,6-Trichlorophenol	6.011	196	28156	2.14	ppb	99
50) 2,4,5-Trichlorophenol	6.065	196	28071	2.13	ppb	94
52) 2-Chloronaphthalene	6.235	162	74253	2.14	ppb	99
53) Biphenyl	6.219	154	82402	2.06	ppb	95
54) 2-Nitroaniline	6.374	65	27220	2.13	ppb	98
55) Dimethylphthalate	6.609	163	86265	2.12	ppb	99
56) Acenaphthylene	6.722	152	115661	2.11	ppb	98
57) 2,6-Dinitrotoluene	6.679	165	19760	2.20	ppb	97
58) 3-Nitroaniline	6.871	138	18956	2.08	ppb	93
59) Acenaphthene	6.930	153	73044	2.13	ppb	95
60) 2,4-Dinitrophenol	7.021	184	8796	1.78	ppb	82
61) 4-Nitrophenol	7.144	109	10071	1.59	ppb	# 8
62) Dibenzofuran	7.144	168	106124	2.21	ppb	95
63) 2,4-Dinitrotoluene	7.165	165	26296	2.10	ppb	96
64) 2,3,4,6-Tetrachlorophenol	7.309	232	26796	2.14	ppb	89
65) Diethylphthalate	7.464	149	88210	2.12	ppb	97
66) Fluorene	7.555	166	84569	2.11	ppb	99
67) 4-Chlorophenyl-phenyle...	7.576	204	42115	2.04	ppb	95
68) 4-Nitroaniline	7.603	138	18810	2.16	ppb	89
70) 4,6-Dinitro-2-methylph...	7.657	198	11358	1.69	ppb	90
71) n-Nitrosodiphenylamine	7.721	169	61338	2.13	ppb	99
72) 1,2-Diphenylhydrazine	7.763	77	80805	2.11	ppb	94
74) 4-Bromophenyl-phenylether	8.159	248	30091	2.25	ppb	96
75) Hexachlorobenzene	8.217	284	33017	2.08	ppb	96
76) Pentachlorophenol	8.474	266	30507	3.84	ppb	92

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ez4711\
 Data File : z94839.D
 Acq On : 26 Aug 2014 4:06 pm
 Operator : ashleyv
 Sample : ic4711-2
 Misc : op76603,ez4711
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 27 10:58:28 2014
 Quant Method : C:\MSDCHEM\1\METHODS\MZ4711.M
 Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
 QLast Update : Wed Aug 27 10:57:46 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
77) Phenanthrene	8.714	178	127736	2.14	ppb	98
78) Anthracene	8.778	178	130833	2.18	ppb	95
79) Carbazole	9.008	167	108090	2.16	ppb	100
80) Di-n-butylphthalate	9.521	149	144021	2.08	ppb	99
81) Fluoranthene	10.296	202	150352	2.16	ppb	97
82) Octadecane	8.634	57	68541	2.09	ppb	100
84) Pyrene	10.605	202	153616	2.11	ppb	98
85) Butyl stearate	11.823	56	50651	2.12	ppb	94
87) Butylbenzylphthalate	11.658	149	64954	2.13	ppb	99
88) Benzo[a]anthracene	12.395	228	158116	2.11	ppb	97
89) 3,3'-Dichlorobenzidine	12.400	252	53122	2.11	ppb	90
90) Chrysene	12.443	228	146081	2.14	ppb	99
91) bis(2-Ethylhexyl)phtha...	12.577	149	84857	2.03	ppb	97
93) Di-n-octylphthalate	13.544	149	154086	2.17	ppb	98
94) Benzo[b]fluoranthene	13.950	252	156468	2.16	ppb	95
95) Benzo[k]fluoranthene	13.982	252	152510	2.17	ppb	91
96) Benzo[a]pyrene	14.382	252	144645	2.23	ppb	97
97) Indeno[1,2,3-cd]pyrene	15.878	276	130208	1.88	ppb	91
98) Dibenz(a,h)acridine	15.563	279	110656	2.14	ppb	98
99) Dibenz[a,h]anthracene	15.916	278	122773	1.96	ppb	96
100) 7,12-Dimethylbenz(a)an...	13.939	256	26019	1.28	ppb	94
101) Benzo[g,h,i]perylene	16.268	276	139452	2.17	ppb	93

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

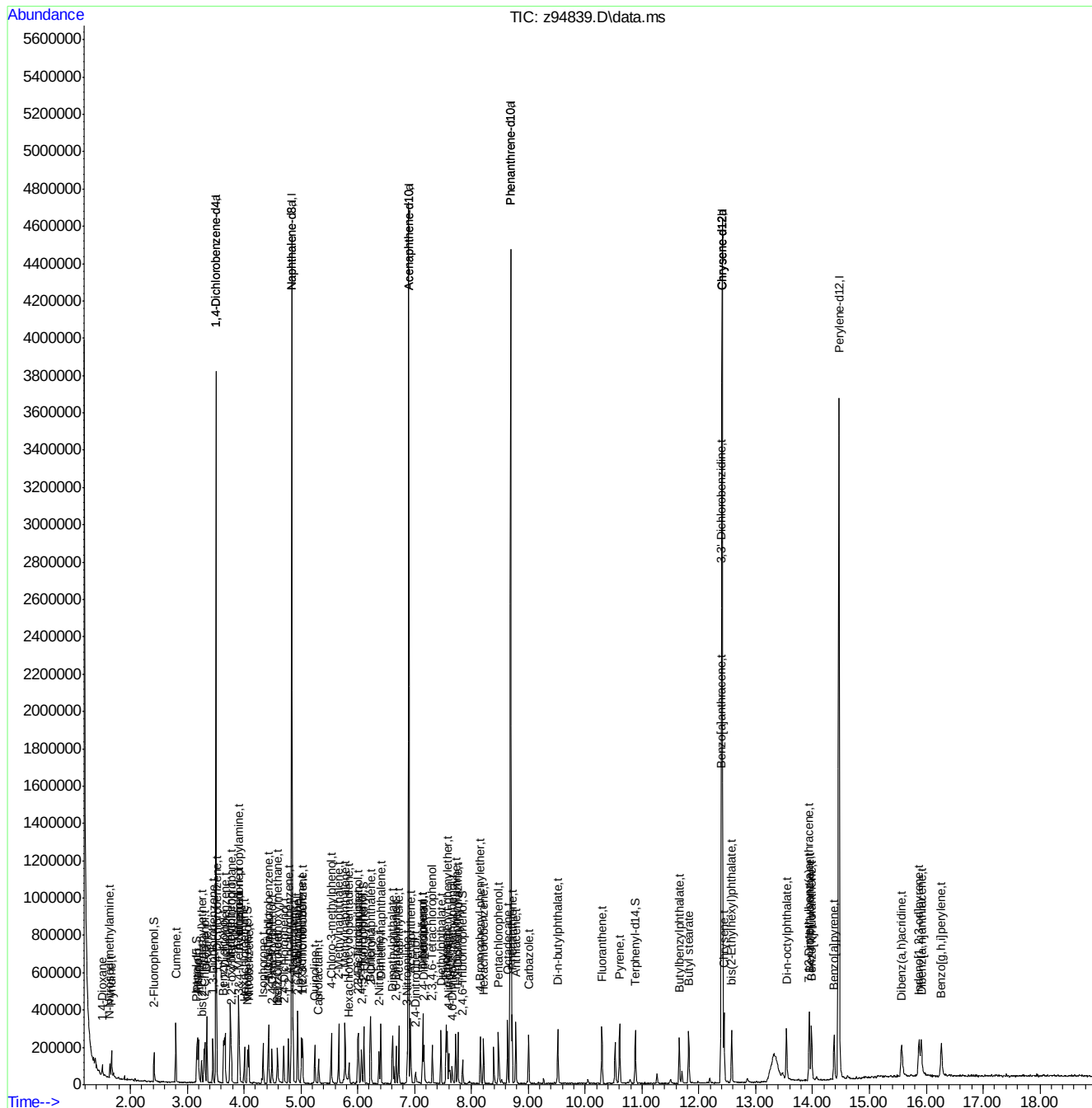
9.6.56

9

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ez4711\
Data File : z94839.D
Acq On : 26 Aug 2014 4:06 pm
Operator : ashleyv
Sample : ic4711-2
Misc : op76603,ez4711
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 27 10:58:28 2014
Quant Method : C:\MSDCHEM\1\METHODS\MZ4711.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Wed Aug 27 10:57:46 2014
Response via : Initial Calibration



MZ4711.M Wed Aug 27 12:41:44 2014 RTE

Page: 4

Manual Integration Approval Summary

Sample Number: EZ4711-IC4711

Method: SW846 8270D

Lab FileID: Z94839.D

Analyst approved: 08/27/14 12:49 Ashley Royal

Injection Time: 08/26/14 16:06

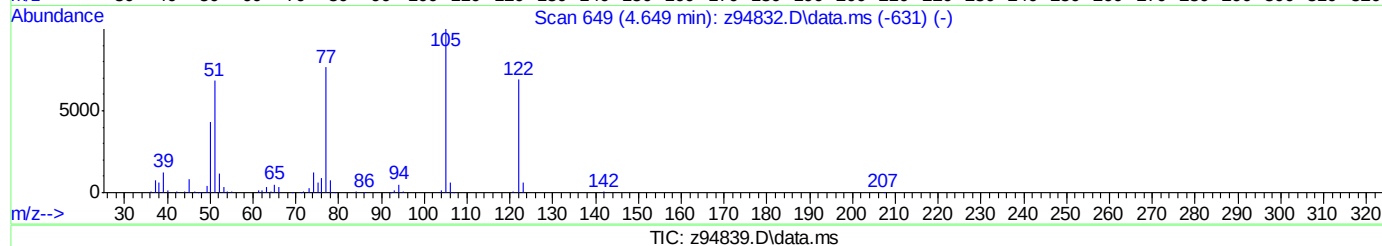
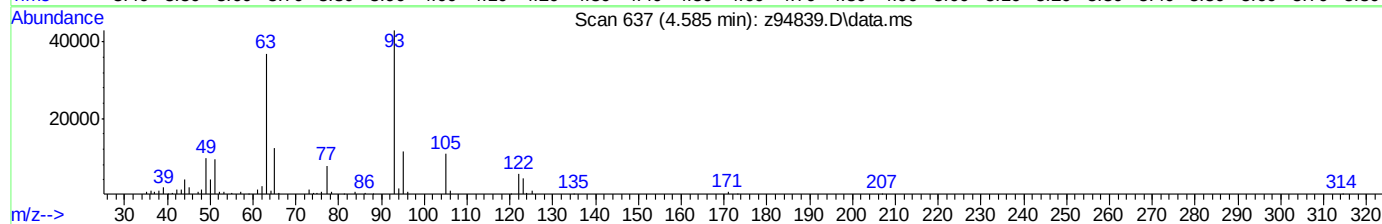
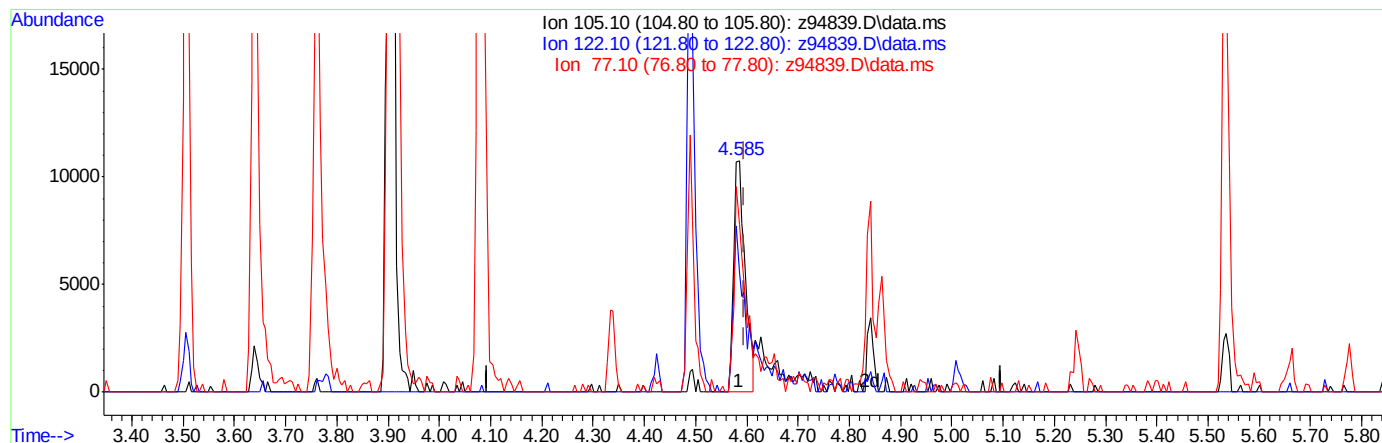
Supervisor approved: 08/27/14 18:08 Nina Pandya

Parameter	CAS	Sig#	R.T. (min.)	Reason
Benzoic Acid	65-85-0		4.58	Poor instrument integration

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\ez4711\
Data File : z94839.D
Acq On : 26 Aug 2014 4:06 pm
Operator : ashleyv
Sample : ic4711-2
Misc : op76603,ez4711
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 27 10:56:55 2014
Quant Method : C:\MSDCHEM\1\METHODS\MZ4711.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Wed Aug 27 10:56:47 2014
Response via : Initial Calibration



(31) Benzoic Acid

4.585min (-0.011) 1.41ppb

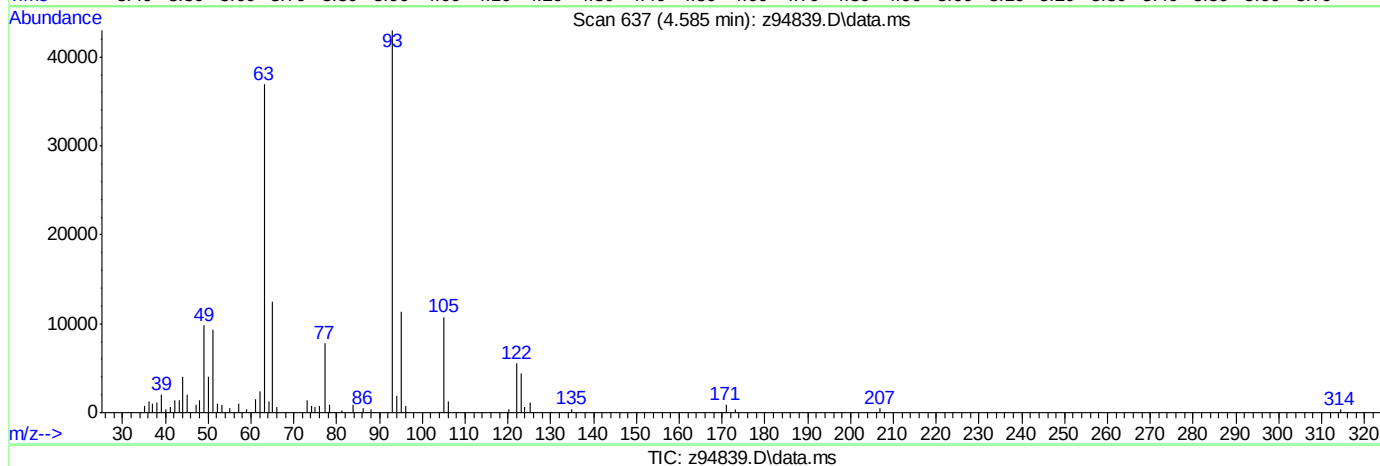
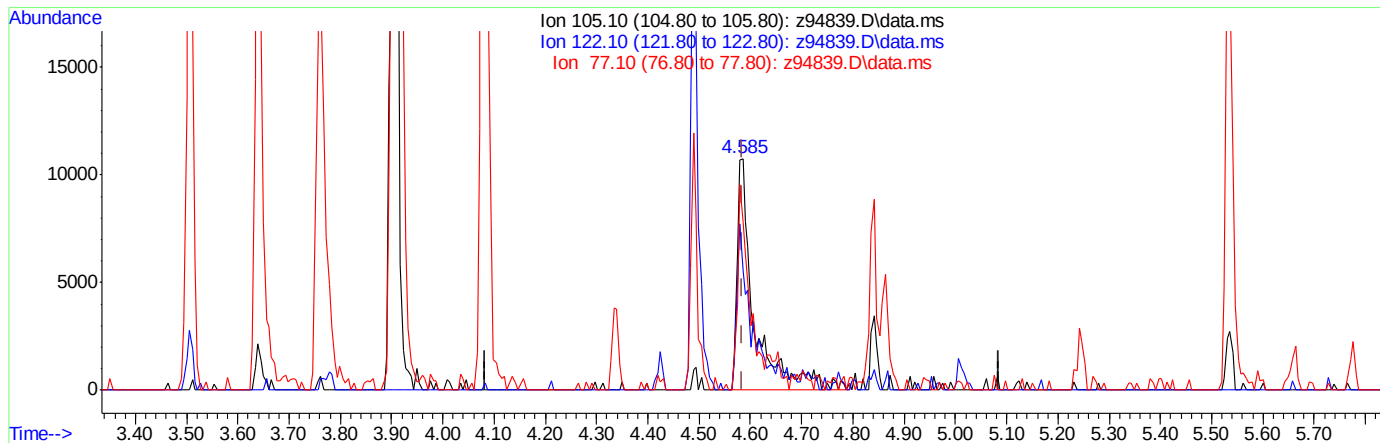
response 16853

Ion	Exp%	Act%
105.10	100	100
122.10	0.00	67.78#
77.10	0.00	80.58#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\ez4711\
Data File : z94839.D
Acq On : 26 Aug 2014 4:06 pm
Operator : ashleyv
Sample : ic4711-2
Misc : op76603,ez4711
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 27 10:58:28 2014
Quant Method : C:\MSDCHEM\1\METHODS\MZ4711.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Wed Aug 27 10:57:46 2014
Response via : Initial Calibration



(31) Benzoic Acid

4.585min (0.000) 2.10ppb m

response 25452

Ion	Exp%	Act%
105.10	100	100
122.10	0.00	44.88#
77.10	0.00	53.36#
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ez4711\
 Data File : z94840.D
 Acq On : 26 Aug 2014 4:33 pm
 Operator : ashleyv
 Sample : ic4711-1
 Misc : op76603,ez4711
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 27 11:19:43 2014
 Quant Method : C:\MSDCHEM\1\METHODS\MZ4711.M
 Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
 QLast Update : Tue Aug 26 16:01:21 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	3.506	152	672831	40.00	ppb	0.00
24) Naphthalene-d8	4.841	136	2503761	40.00	ppb	0.00
47) Acenaphthene-d10	6.898	164	1512403	40.00	ppb	0.00
69) Phenanthrene-d10	8.693	188	2726575	40.00	ppb	0.00
83) Chrysene-d12	12.417	240	3158553	40.00	ppb	0.01
92) Perylene-d12	14.473	264	2806782	40.00	ppb	0.02
102) 1,4-Dichlorobenzene-d4a	3.506	152	672831	40.00	ppb	0.00
104) Phenanthrene-d10a	8.693	188	2726575	40.00	ppb	0.00
107) Chrysene-d12a	12.417	240	3158553	40.00	ppb	0.01
110) Acenaphthene-d10a	6.898	164	1512403	40.00	ppb	0.00
112) Naphthalene-d8a	4.841	136	2503761	40.00	ppb	0.00
114) Chrysene-d12b	12.417	240	3158553	40.00	ppb	0.01
System Monitoring Compounds						
5) 2-Fluorophenol	2.416	112	22805	0.92	ppb	0.00
Spiked Amount 50.000			Recovery	=	1.84%	
8) Phenol-d5	3.169	99	29767	0.91	ppb	0.00
Spiked Amount 50.000			Recovery	=	1.82%	
25) Nitrobenzene-d5	4.061	82	32600	0.93	ppb	0.00
Spiked Amount 50.000			Recovery	=	1.86%	
51) 2-Fluorobiphenyl	6.107	172	67377	0.99	ppb	0.00
Spiked Amount 50.000			Recovery	=	1.98%	
73) 2,4,6-Tribromophenol	7.849	330	12704	0.98	ppb	0.00
Spiked Amount 50.000			Recovery	=	1.96%	
86) Terphenyl-d14	10.883	244	81214	0.97	ppb	0.00
Spiked Amount 50.000			Recovery	=	1.94%	
106) o-terphenyl	0.000	230	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
109) 1-chlorooctadecane	0.000	57	0d	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
Target Compounds						
2) 1,4-Dioxane	1.508	88	8912	0.96	ppb	97
3) Pyridine	1.673	79	19783	0.89	ppb	# 78
4) N-Nitrosodimethylamine	1.641	74	13056	0.89	ppb	82
6) Indene	3.757	116	43104	0.92	ppb	92
7) Cumene	2.801	105	68277	0.90	ppb	98
9) Phenol	3.180	94	37060	0.96	ppb	97
10) Aniline	3.196	93	39094	0.98	ppb	86
11) bis(2-Chloroethyl)ether	3.249	93	24513	0.94	ppb	97
12) 2-Chlorophenol	3.313	128	30071	0.97	ppb	92
13) Decane	3.345	43	50692	0.95	ppb	96
14) 1,3-Dichlorobenzene	3.452	146	36238	0.98	ppb	98
15) 1,4-Dichlorobenzene	3.522	146	35273	0.90	ppb	97
16) Benzyl alcohol	3.639	108	17887	0.97	ppb	94
17) 1,2-Dichlorobenzene	3.666	146	33491	0.91	ppb	94
18) Acetophenone	3.906	105	39411	0.95	ppb	98
19) 2-Methylphenol	3.762	108	23406	0.92	ppb	90
20) 2,2'-oxybis(1-Chloropr...	3.778	121	10333	1.06	ppb	95

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ez4711\
 Data File : z94840.D
 Acq On : 26 Aug 2014 4:33 pm
 Operator : ashleyv
 Sample : ic4711-1
 Misc : op76603,ez4711
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 27 11:19:43 2014
 Quant Method : C:\MSDCHEM\1\METHODS\MZ4711.M
 Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
 QLast Update : Tue Aug 26 16:01:21 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
21) 3&4-Methylphenol	3.922	108	24014	0.91	ppb	88
22) n-Nitroso-di-n-propyla...	3.906	70	21423	0.95	ppb	98
23) Hexachloroethane	4.008	201	14877	0.95	ppb	94
26) Nitrobenzene	4.083	77	34986	0.99	ppb	88
27) Quinoline	5.242	129	53549	0.95	ppb	95
28) Isophorone	4.339	82	54015	0.95	ppb	97
29) 2-Nitrophenol	4.425	139	16169	0.91	ppb	90
30) 2,4-Dimethylphenol	4.489	107	23418	0.67	ppb	91
31) Benzoic Acid	4.580	105	15062m	0.73	ppb	
32) bis(2-Chloroethoxy)met...	4.585	93	31534	0.97	ppb	98
33) 2,4-Dichlorophenol	4.702	162	26237	0.97	ppb	90
34) 2,6-Dichlorophenol	4.943	162	25971	0.95	ppb	98
35) 1,3,5-Trichlorobenzene	4.430	180	30485	0.90	ppb	91
36) 1,2,4-Trichlorobenzene	4.782	180	30281	0.88	ppb	97
37) 1,2,3-Trichlorobenzene	5.028	180	29436	1.00	ppb	97
38) Naphthalene	4.863	128	86711	0.90	ppb	99
39) 4-Chloroaniline	4.937	127	35260	1.20	ppb	93
40) 2,3-Dichloroaniline	6.001	161	31763	0.98	ppb	90
41) Caprolactam	5.306	55	18101	0.89	ppb	97
42) Hexachlorobutadiene	5.012	225	21613	0.86	ppb	95
43) 4-Chloro-3-methylphenol	5.536	107	27236	0.92	ppb	96
44) 2-Methylnaphthalene	5.664	141	51920	1.01	ppb	92
45) 1-Methylnaphthalene	5.776	141	49436	1.01	ppb	96
46) Dimethylnaphthalene	6.407	156	53241	0.90	ppb	96
48) Hexachlorocyclopentadiene	5.851	237	9125	1.18	ppb	91
49) 2,4,6-Trichlorophenol	6.011	196	21545	0.97	ppb	92
50) 2,4,5-Trichlorophenol	6.065	196	21894	1.03	ppb	93
52) 2-Chloronaphthalene	6.236	162	56927	0.92	ppb	93
53) Biphenyl	6.220	154	69155	0.99	ppb	99
54) 2-Nitroaniline	6.375	65	20806	1.04	ppb	100
55) Dimethylphthalate	6.610	163	71186	1.01	ppb	94
56) Acenaphthylene	6.722	152	91902	0.97	ppb	97
57) 2,6-Dinitrotoluene	6.679	165	14706	1.09	ppb	94
58) 3-Nitroaniline	6.871	138	15135	1.03	ppb	79
59) Acenaphthene	6.930	153	58877	1.00	ppb	90
60) 2,4-Dinitrophenol	7.021	184	6967	0.92	ppb	82
61) 4-Nitrophenol	7.144	109	9328	1.04	ppb	# 15
62) Dibenzofuran	7.144	168	80913	0.95	ppb	94
63) 2,4-Dinitrotoluene	7.165	165	21052	1.01	ppb	65
64) 2,3,4,6-Tetrachlorophenol	7.309	232	21104	1.07	ppb	89
65) Diethylphthalate	7.464	149	72802	1.02	ppb	93
66) Fluorene	7.555	166	69923	1.02	ppb	99
67) 4-Chlorophenyl-phenyle...	7.571	204	37287	1.07	ppb	89
68) 4-Nitroaniline	7.603	138	13128	0.86	ppb	98
70) 4,6-Dinitro-2-methylph...	7.657	198	8256	0.89	ppb	86
71) n-Nitrosodiphenylamine	7.721	169	48572	1.00	ppb	100
72) 1,2-Diphenylhydrazine	7.758	77	64266	1.01	ppb	96
74) 4-Bromophenyl-phenylether	8.159	248	22354	0.98	ppb	94
75) Hexachlorobenzene	8.218	284	28793	1.05	ppb	92
76) Pentachlorophenol	8.479	266	21701	1.69	ppb	93

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ez4711\
 Data File : z94840.D
 Acq On : 26 Aug 2014 4:33 pm
 Operator : ashleyv
 Sample : ic4711-1
 Misc : op76603,ez4711
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 27 11:19:43 2014
 Quant Method : C:\MSDCHEM\1\METHODS\MZ4711.M
 Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
 QLast Update : Tue Aug 26 16:01:21 2014
 Response via : Initial Calibration

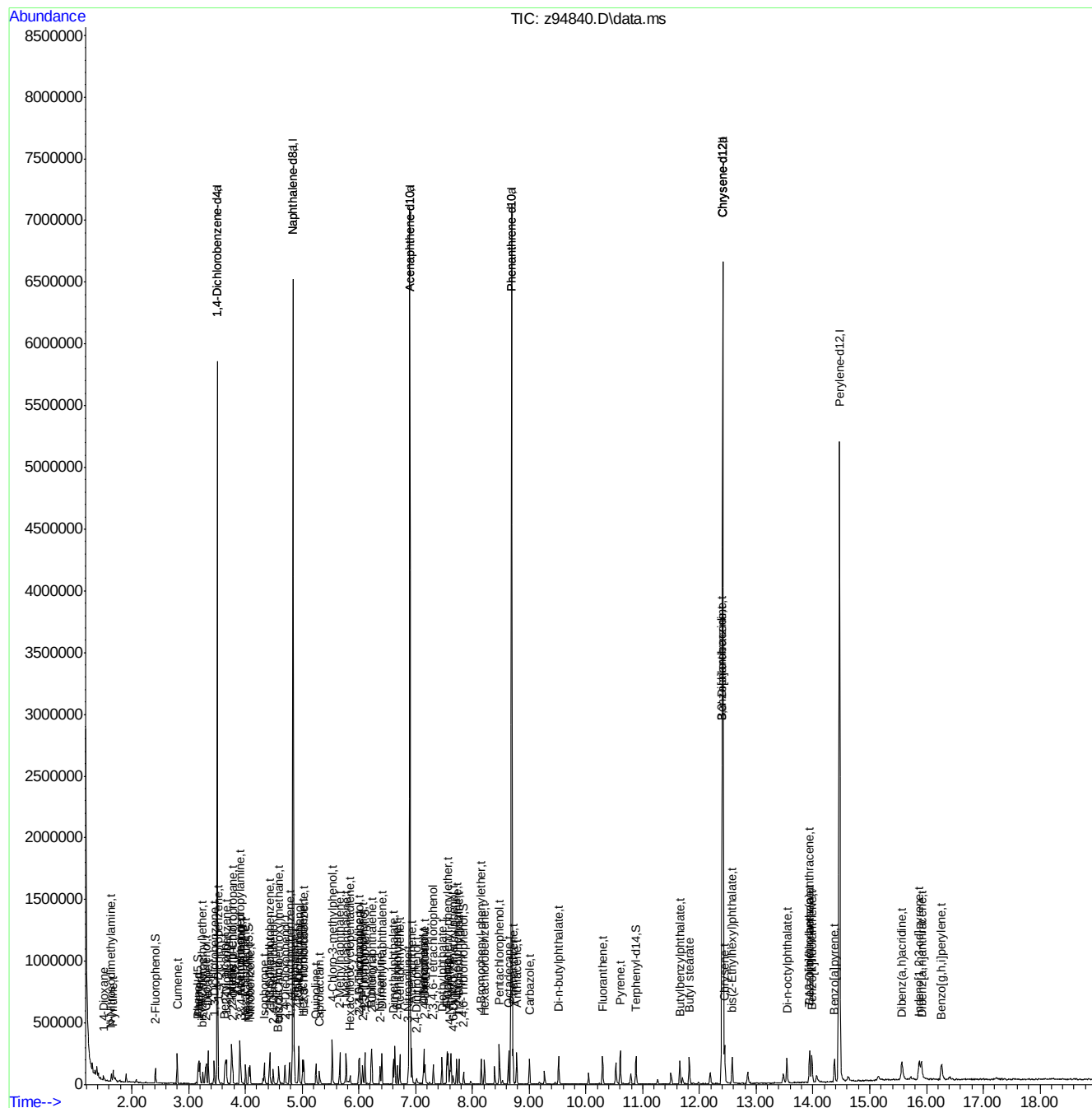
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
77) Phenanthrene	8.714	178	101489	0.96	ppb	95
78) Anthracene	8.778	178	99491	0.97	ppb	93
79) Carbazole	9.008	167	83291	1.01	ppb	99
80) Di-n-butylphthalate	9.521	149	114256	1.02	ppb	99
81) Fluoranthene	10.296	202	114546	0.98	ppb	98
82) Octadecane	8.634	57	56123	0.98	ppb	95
84) Pyrene	10.606	202	125242	1.00	ppb	98
85) Butyl stearate	11.818	56	38921	0.96	ppb	90
87) Butylbenzylphthalate	11.658	149	49011	0.94	ppb	99
88) Benzo[a]anthracene	12.401	228	134592	1.02	ppb	96
89) 3,3'-Dichlorobenzidine	12.401	252	41958	1.00	ppb	94
90) Chrysene	12.449	228	115933	1.03	ppb	100
91) bis(2-Ethylhexyl)phtha...	12.577	149	68909	0.97	ppb	99
93) Di-n-octylphthalate	13.544	149	111991	1.07	ppb	99
94) Benzo[b]fluoranthene	13.944	252	119051	0.98	ppb	98
95) Benzo[k]fluoranthene	13.982	252	122149	1.09	ppb	95
96) Benzo[a]pyrene	14.383	252	109742	1.05	ppb	96
97) Indeno[1,2,3-cd]pyrene	15.878	276	99608m	0.91	ppb	
98) Dibenz(a,h)acridine	15.563	279	83989	1.09	ppb	88
99) Dibenz[a,h]anthracene	15.916	278	106162	1.12	ppb	95
100) 7,12-Dimethylbenz(a)an...	13.939	256	18696	0.36	ppb	95
101) Benzo[g,h,i]perylene	16.268	276	108615	1.08	ppb	96

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ez4711\
Data File : z94840.D
Acq On : 26 Aug 2014 4:33 pm
Operator : ashleyv
Sample : ic4711-1
Misc : op76603,ez4711
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 27 11:19:43 2014
Quant Method : C:\MSDCHEM\1\METHODS\MZ4711.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Tue Aug 26 16:01:21 2014
Response via : Initial Calibration



Manual Integration Approval Summary

Sample Number:

EZ4711-IC4711

Method:

SW846 8270D

Lab FileID:

Z94840.D

Analyst approved:

08/27/14 12:49 Ashley Royal

Injection Time:

08/26/14 16:33

Supervisor approved:

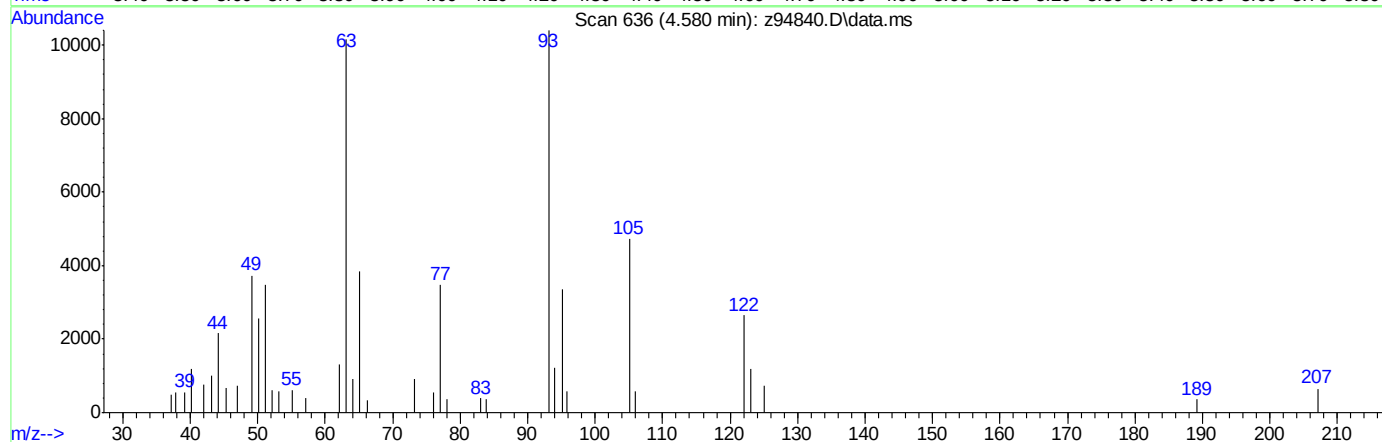
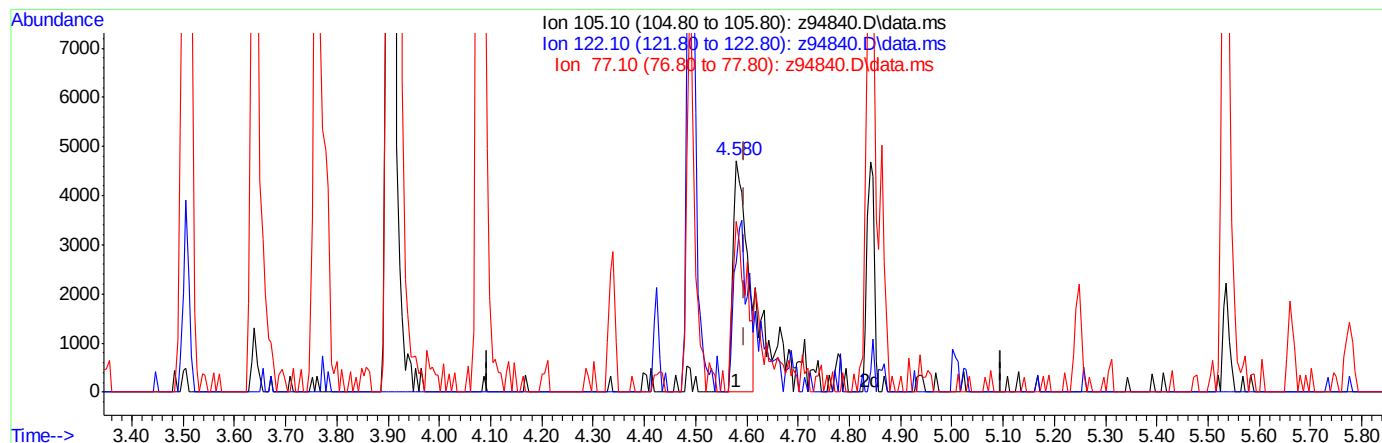
08/27/14 18:08 Nina Pandya

Parameter	CAS	Sig#	R.T. (min.)	Reason
Benzoic Acid	65-85-0		4.58	Poor instrument integration
Indeno(1,2,3-cd)pyrene	193-39-5		15.88	Poor instrument integration

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\ez4711\
Data File : z94840.D
Acq On : 26 Aug 2014 4:33 pm
Operator : ashleyv
Sample : ic4711-1
Misc : op76603,ez4711
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 26 16:52:06 2014
Quant Method : C:\MSDCHEM\1\METHODS\MZ4711.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Tue Aug 26 16:01:21 2014
Response via : Initial Calibration



(31) Benzoic Acid

4.580min (-0.016) 0.42ppb

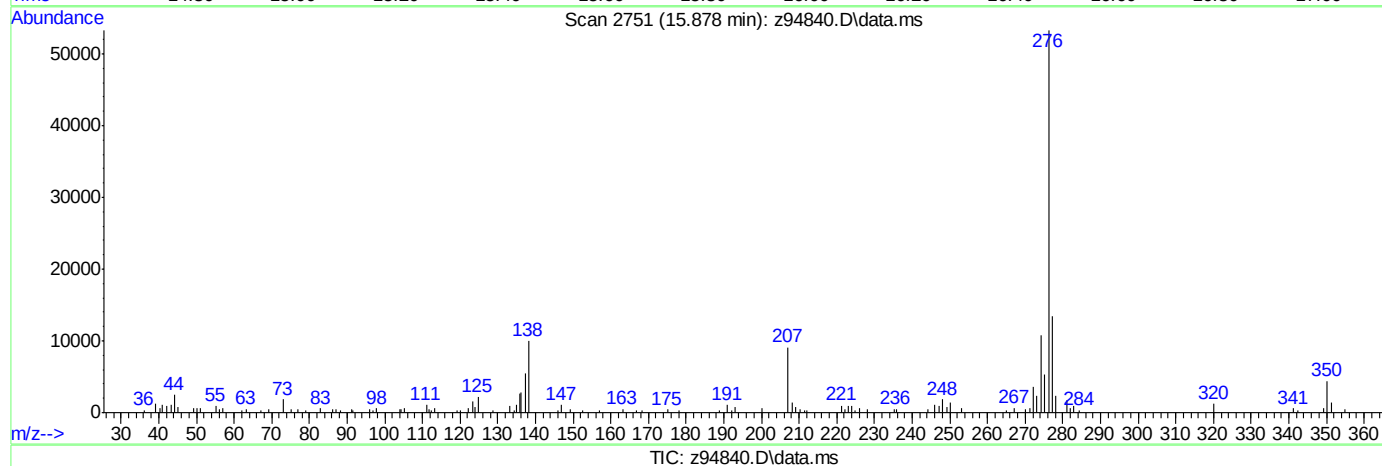
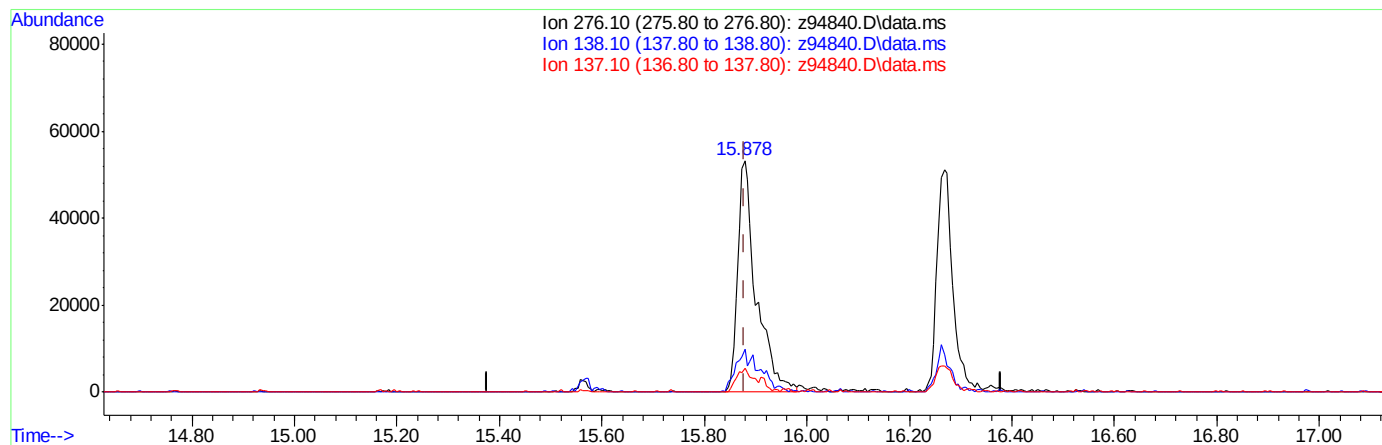
response 8753

Ion	Exp%	Act%
105.10	100	100
122.10	0.00	52.69#
77.10	0.00	54.10#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\ez4711\
Data File : z94840.D
Acq On : 26 Aug 2014 4:33 pm
Operator : ashleyv
Sample : ic4711-1
Misc : op76603,ez4711
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 26 17:08:30 2014
Quant Method : C:\MSDCHEM\1\METHODS\MZ4711.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Tue Aug 26 16:01:21 2014
Response via : Initial Calibration



(97) Indeno[1,2,3-cd]pyrene (t)

15.878min (+0.000) 1.23ppb

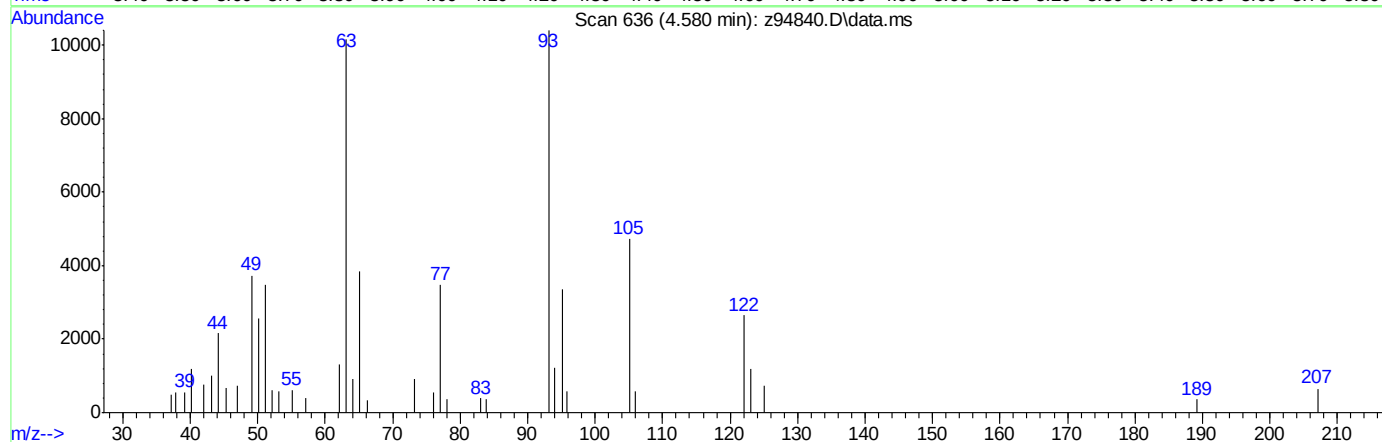
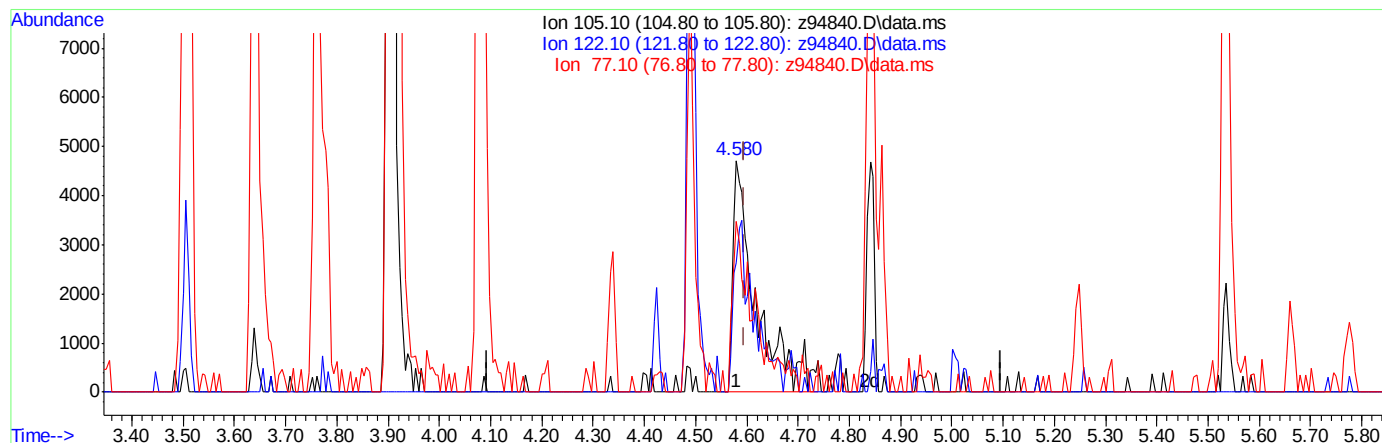
response 133978

Ion	Exp%	Act%
276.10	100	100
138.10	13.00	18.55
137.10	9.90	10.53
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\ez4711\
Data File : z94840.D
Acq On : 26 Aug 2014 4:33 pm
Operator : ashleyv
Sample : ic4711-1
Misc : op76603,ez4711
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 27 11:19:43 2014
Quant Method : C:\MSDCHEM\1\METHODS\MZ4711.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Tue Aug 26 16:01:21 2014
Response via : Initial Calibration



(31) Benzoic Acid

4.580min (-0.016) 0.73ppb m

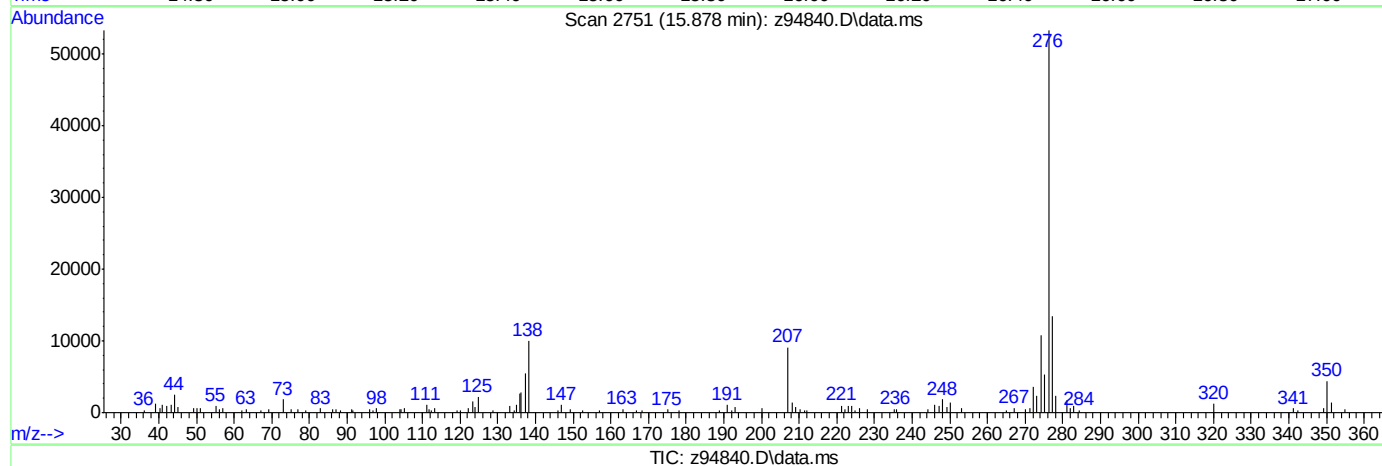
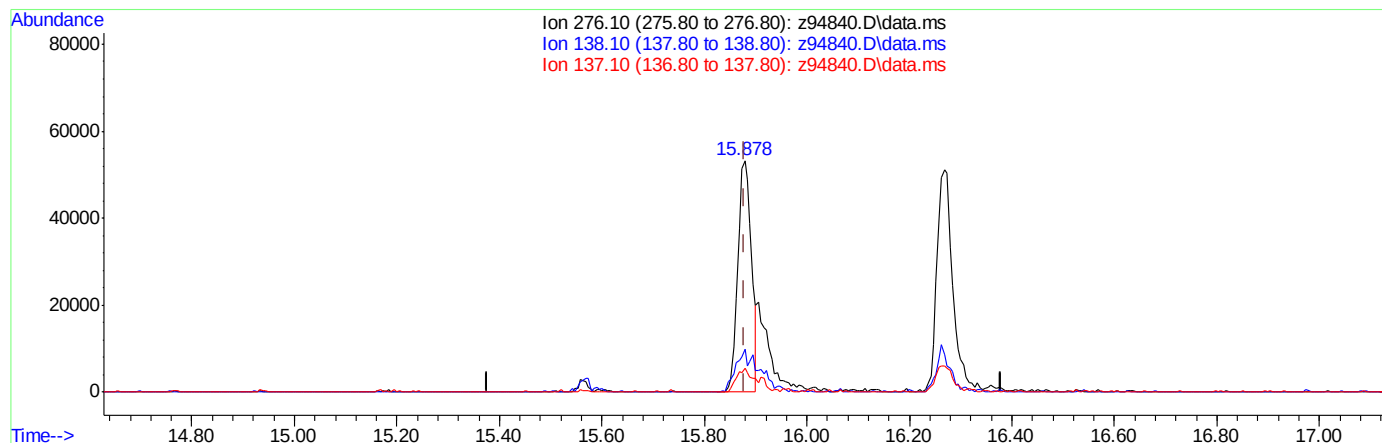
response 15062

Ion	Exp%	Act%
105.10	100	100
122.10	0.00	30.62#
77.10	0.00	31.44#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\ez4711\
Data File : z94840.D
Acq On : 26 Aug 2014 4:33 pm
Operator : ashleyv
Sample : ic4711-1
Misc : op76603,ez4711
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 27 11:19:43 2014
Quant Method : C:\MSDCHEM\1\METHODS\MZ4711.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Tue Aug 26 16:01:21 2014
Response via : Initial Calibration



(97) Indeno[1,2,3-cd]pyrene (t)

15.878min (+0.000) 0.91ppb m

response 99608

Ion	Exp%	Act%
276.10	100	100
138.10	13.00	18.69
137.10	9.90	10.42
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ez4711\
 Data File : z94841a.D
 Acq On : 26 Aug 2014 5:18 pm
 Operator : ashleyv
 Sample : ic4711-5
 Misc : op76603,ez4711
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Aug 27 11:20:20 2014
 Quant Method : C:\MSDCHEM\1\METHODS\MZ4711.M
 Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
 QLast Update : Wed Aug 27 11:16:51 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	3.506	152	362512	40.00	ppb	0.00
24) Naphthalene-d8	4.841	136	1356576	40.00	ppb	0.00
47) Acenaphthene-d10	6.898	164	831546	40.00	ppb	0.00
69) Phenanthrene-d10	8.693	188	1494761	40.00	ppb	0.00
83) Chrysene-d12	12.411	240	1728360	40.00	ppb	0.00
92) Perylene-d12	14.468	264	1512545	40.00	ppb	0.00
102) 1,4-Dichlorobenzene-d4a	3.506	152	362512	40.00	ppb	0.00
104) Phenanthrene-d10a	8.693	188	1494761	40.00	ppb	0.00
107) Chrysene-d12a	12.411	240	1728360	40.00	ppb	0.00
110) Acenaphthene-d10a	6.898	164	831546	40.00	ppb	0.00
112) Naphthalene-d8a	4.841	136	1356576	40.00	ppb	0.00
114) Chrysene-d12b	12.411	240	1728360	40.00	ppb	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	2.410	112	53240	4.71	ppb	0.00
Spiked Amount	50.000		Recovery	=	9.42%	
8) Phenol-d5	3.164	99	60943	4.30	ppb	0.00
Spiked Amount	50.000		Recovery	=	8.60%	
25) Nitrobenzene-d5	4.061	82	66540	4.47	ppb	0.00
Spiked Amount	50.000		Recovery	=	8.94%	
51) 2-Fluorobiphenyl	6.107	172	137591	4.51	ppb	0.00
Spiked Amount	50.000		Recovery	=	9.02%	
73) 2,4,6-Tribromophenol	7.849	330	27063	4.48	ppb	0.00
Spiked Amount	50.000		Recovery	=	8.96%	
86) Terphenyl-d14	10.883	244	176186	4.66	ppb	0.00
Spiked Amount	50.000		Recovery	=	9.32%	
106) o-terphenyl	0.000	230	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
109) 1-chlorooctadecane	0.000	57	0d	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
Target Compounds						
2) 1,4-Dioxane	1.502	88	19266	4.57	ppb	96
3) Pyridine	1.663	79	50459	4.80	ppb	98
4) N-Nitrosodimethylamine	1.636	74	27373	4.26	ppb	88
6) Indene	3.751	116	92982	4.51	ppb	95
7) Cumene	2.800	105	148720	4.65	ppb	96
9) Phenol	3.174	94	79641	4.56	ppb	98
10) Aniline	3.196	93	83462	4.65	ppb	93
11) bis(2-Chloroethyl)ether	3.249	93	52941	4.63	ppb	97
12) 2-Chlorophenol	3.308	128	66976	4.70	ppb	97
13) Decane	3.345	43	114916	4.85	ppb	99
14) 1,3-Dichlorobenzene	3.447	146	79588	4.75	ppb	93
15) 1,4-Dichlorobenzene	3.522	146	80245	4.79	ppb	95
16) Benzyl alcohol	3.639	108	37087	4.33	ppb	94
17) 1,2-Dichlorobenzene	3.666	146	71964	4.64	ppb	93
18) Acetophenone	3.901	105	87831	4.63	ppb	95
19) 2-Methylphenol	3.757	108	48694	4.39	ppb	92
20) 2,2'-oxybis(1-Chloropr...	3.778	121	20200	4.62	ppb	93

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ez4711\
 Data File : z94841a.D
 Acq On : 26 Aug 2014 5:18 pm
 Operator : ashleyv
 Sample : ic4711-5
 Misc : op76603,ez4711
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Aug 27 11:20:20 2014
 Quant Method : C:\MSDCHEM\1\METHODS\MZ4711.M
 Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
 QLast Update : Wed Aug 27 11:16:51 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
21) 3&4-Methylphenol	3.917	108	55492	4.65	ppb	96
22) n-Nitroso-di-n-propyla...	3.906	70	49027	4.86	ppb	97
23) Hexachloroethane	4.008	201	32269	4.69	ppb	95
26) Nitrobenzene	4.083	77	69601	4.42	ppb	97
27) Quinoline	5.247	129	109079	4.43	ppb	95
28) Isophorone	4.334	82	118910	4.70	ppb	98
29) 2-Nitrophenol	4.424	139	32835	4.25	ppb	92
30) 2,4-Dimethylphenol	4.489	107	59647	4.46	ppb	96
31) Benzoic Acid	4.585	105	37891	4.01	ppb	# 100
32) bis(2-Chloroethoxy)met...	4.585	93	63698	4.50	ppb	96
33) 2,4-Dichlorophenol	4.697	162	57154	4.59	ppb	99
34) 2,6-Dichlorophenol	4.943	162	54941	4.48	ppb	97
35) 1,3,5-Trichlorobenzene	4.430	180	67649	4.76	ppb	96
36) 1,2,4-Trichlorobenzene	4.777	180	63771	4.53	ppb	96
37) 1,2,3-Trichlorobenzene	5.028	180	64088	4.77	ppb	99
38) Naphthalene	4.862	128	195249	4.71	ppb	97
39) 4-Chloroaniline	4.937	127	77964	4.69	ppb	98
40) 2,3-Dichloroaniline	6.000	161	63962	4.53	ppb	95
41) Caprolactam	5.311	55	41377	4.80	ppb	94
42) Hexachlorobutadiene	5.007	225	49585	4.78	ppb	99
43) 4-Chloro-3-methylphenol	5.536	107	61199	4.56	ppb	96
44) 2-Methylnaphthalene	5.664	141	110063	4.67	ppb	99
45) 1-Methylnaphthalene	5.776	141	95321	4.36	ppb	93
46) Dimethylnaphthalene	6.406	156	112216	4.54	ppb	96
48) Hexachlorocyclopentadiene	5.851	237	32795	11.41	ppb	96
49) 2,4,6-Trichlorophenol	6.011	196	47321	4.54	ppb	95
50) 2,4,5-Trichlorophenol	6.064	196	47275	4.58	ppb	93
52) 2-Chloronaphthalene	6.235	162	130254	4.71	ppb	96
53) Biphenyl	6.219	154	146194	4.62	ppb	99
54) 2-Nitroaniline	6.374	65	43839	4.37	ppb	90
55) Dimethylphthalate	6.609	163	144137	4.52	ppb	98
56) Acenaphthylene	6.722	152	194121	4.50	ppb	97
57) 2,6-Dinitrotoluene	6.679	165	33884	4.72	ppb	81
58) 3-Nitroaniline	6.871	138	33300	4.54	ppb	97
59) Acenaphthene	6.930	153	124094	4.60	ppb	93
60) 2,4-Dinitrophenol	7.015	184	20360	5.09	ppb	95
61) 4-Nitrophenol	7.144	109	24428	4.96	ppb	# 70
62) Dibenzofuran	7.144	168	173763	4.62	ppb	99
63) 2,4-Dinitrotoluene	7.165	165	45063	4.56	ppb	96
64) 2,3,4,6-Tetrachlorophenol	7.309	232	41262	4.27	ppb	92
65) Diethylphthalate	7.470	149	147434	4.52	ppb	100
66) Fluorene	7.555	166	139584	4.47	ppb	89
67) 4-Chlorophenyl-phenyle...	7.576	204	75087	4.62	ppb	97
68) 4-Nitroaniline	7.603	138	32812	4.66	ppb	89
70) 4,6-Dinitro-2-methylph...	7.656	198	21607	3.87	ppb	85
71) n-Nitrosodiphenylamine	7.721	169	102736	4.56	ppb	99
72) 1,2-Diphenylhydrazine	7.763	77	134682	4.49	ppb	92
74) 4-Bromophenyl-phenylether	8.159	248	47402	4.56	ppb	98
75) Hexachlorobenzene	8.217	284	56856	4.62	ppb	94
76) Pentachlorophenol	8.474	266	52075	8.26	ppb	96

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ez4711\
 Data File : z94841a.D
 Acq On : 26 Aug 2014 5:18 pm
 Operator : ashleyv
 Sample : ic4711-5
 Misc : op76603,ez4711
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Aug 27 11:20:20 2014
 Quant Method : C:\MSDCHEM\1\METHODS\MZ4711.M
 Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
 QLast Update : Wed Aug 27 11:16:51 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
77) Phenanthrene	8.714	178	211584	4.57	ppb	98
78) Anthracene	8.778	178	214682	4.59	ppb	99
79) Carbazole	9.008	167	179234	4.59	ppb	98
80) Di-n-butylphthalate	9.521	149	246807	4.57	ppb	99
81) Fluoranthene	10.296	202	249226	4.59	ppb	97
82) Octadecane	8.639	57	114293	4.47	ppb	94
84) Pyrene	10.611	202	267261	4.67	ppb	95
85) Butyl stearate	11.823	56	85097	4.53	ppb	97
87) Butylbenzylphthalate	11.658	149	109820	4.57	ppb	98
88) Benzo[a]anthracene	12.395	228	264813	4.58	ppb	99
89) 3,3'-Dichlorobenzidine	12.400	252	89078	4.48	ppb	94
90) Chrysene	12.448	228	252200	4.70	ppb	97
91) bis(2-Ethylhexyl)phtha...	12.577	149	150397	4.56	ppb	96
93) Di-n-octylphthalate	13.544	149	245306	4.43	ppb	98
94) Benzo[b]fluoranthene	13.950	252	266986	4.71	ppb	97
95) Benzo[k]fluoranthene	13.987	252	253802	4.66	ppb	97
96) Benzo[a]pyrene	14.382	252	228737	4.57	ppb	99
97) Indeno[1,2,3-cd]pyrene	15.884	276	219539m	4.19	ppb	
98) Dibenz(a,h)acridine	15.568	279	179413	4.46	ppb	98
99) Dibenz[a,h]anthracene	15.916	278	222241	4.52	ppb	96
100) 7,12-Dimethylbenz(a)an...	13.944	256	61565	5.22	ppb	99
101) Benzo[g,h,i]perylene	16.274	276	224300	4.50	ppb	99

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

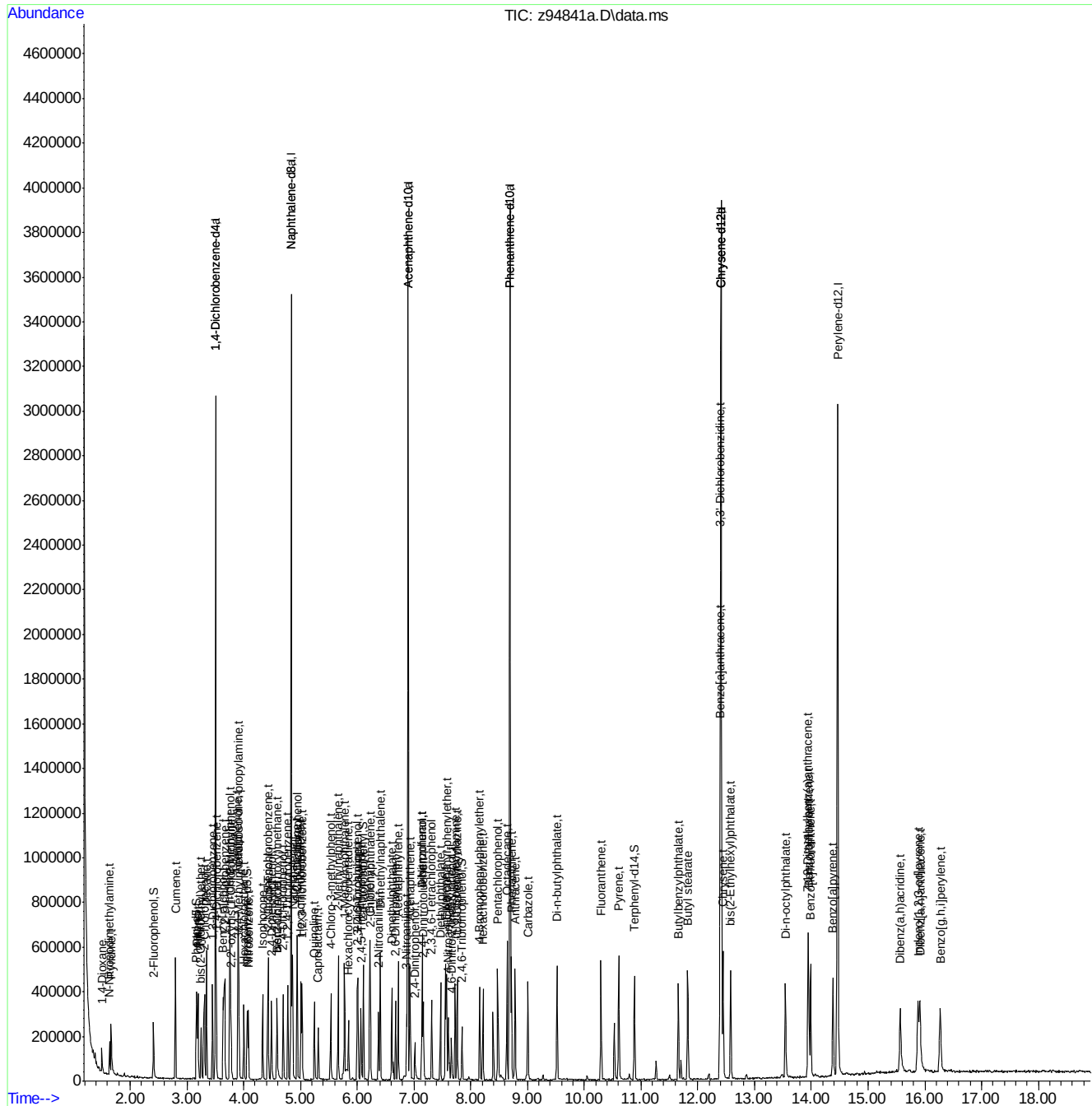
9.6.58

9

(QT Reviewed)

Data Path : C:\msdchem\1\DATA\ez4711\
Data File : z94841a.D
Acq On : 26 Aug 2014 5:18 pm
Operator : ashleyv
Sample : ic4711-5
Misc : op76603,ez4711
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Aug 27 11:20:20 2014
Quant Method : C:\MSDCHEM\1\METHODS\MZ4711.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Wed Aug 27 11:16:51 2014
Response via : Initial Calibration



Manual Integration Approval Summary

Sample Number:

EZ4711-IC4711

Lab FileID:

Z94841A.D

Injection Time:

08/26/14 17:18

Method:

SW846 8270D

Analyst approved:

08/27/14 12:49 Ashley Royal

Supervisor approved:

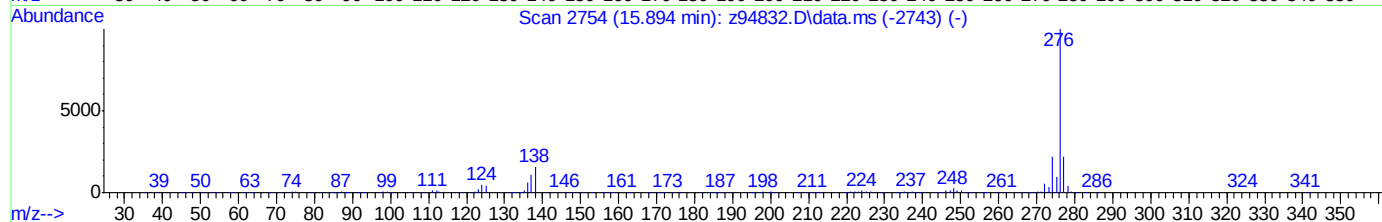
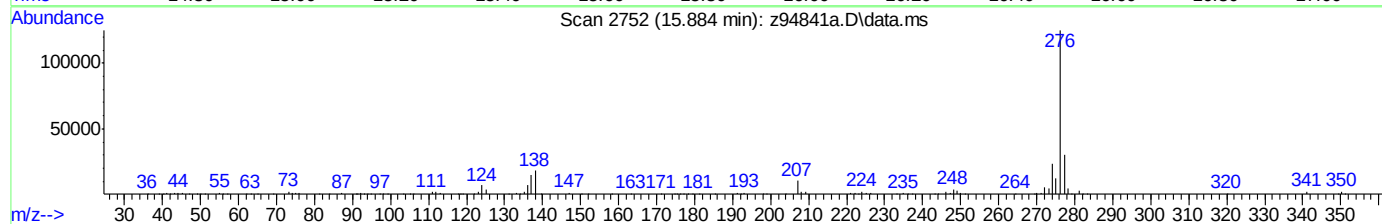
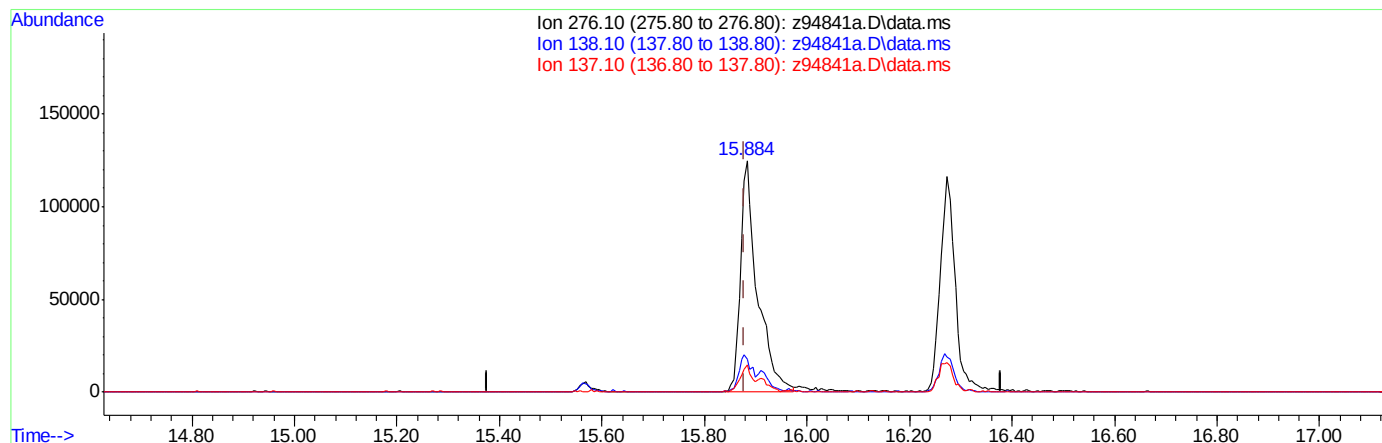
08/27/14 18:08 Nina Pandya

Parameter	CAS	Sig#	R.T. (min.)	Reason
Indeno(1,2,3-cd)pyrene	193-39-5		15.88	Poor instrument integration

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\ez4711\
Data File : z94841a.D
Acq On : 26 Aug 2014 5:18 pm
Operator : ashleyv
Sample : ic4711-5
Misc : op76603,ez4711
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Aug 27 10:58:45 2014
Quant Method : C:\MSDCHEM\1\METHODS\MZ4711.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Wed Aug 27 10:58:37 2014
Response via : Initial Calibration



TIC: z94841a.D\data.ms

(97) Indeno[1,2,3-cd]pyrene (t)

15.884min (+0.005) 5.13ppb

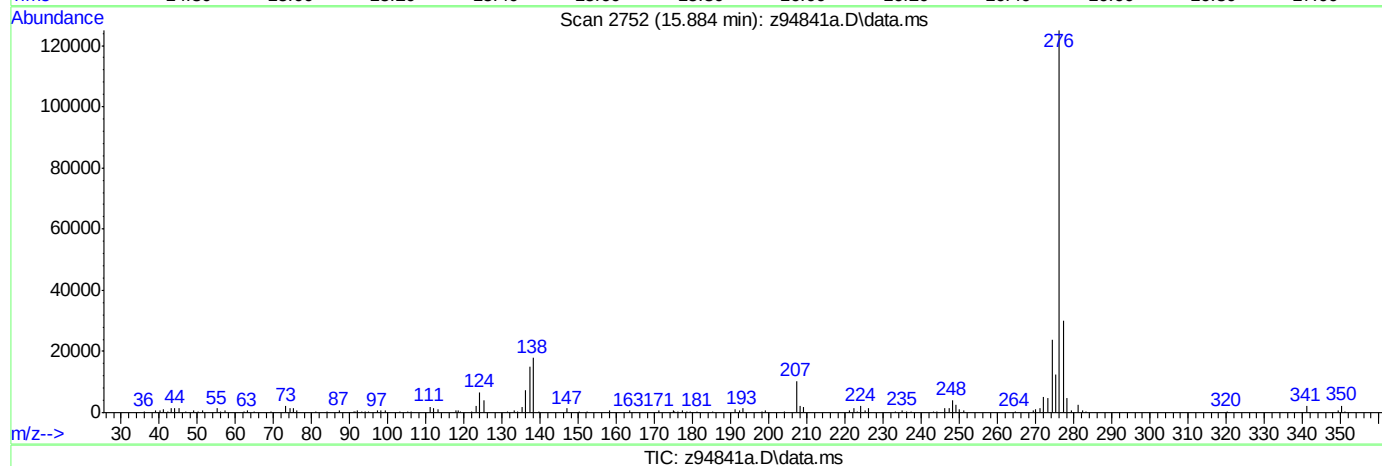
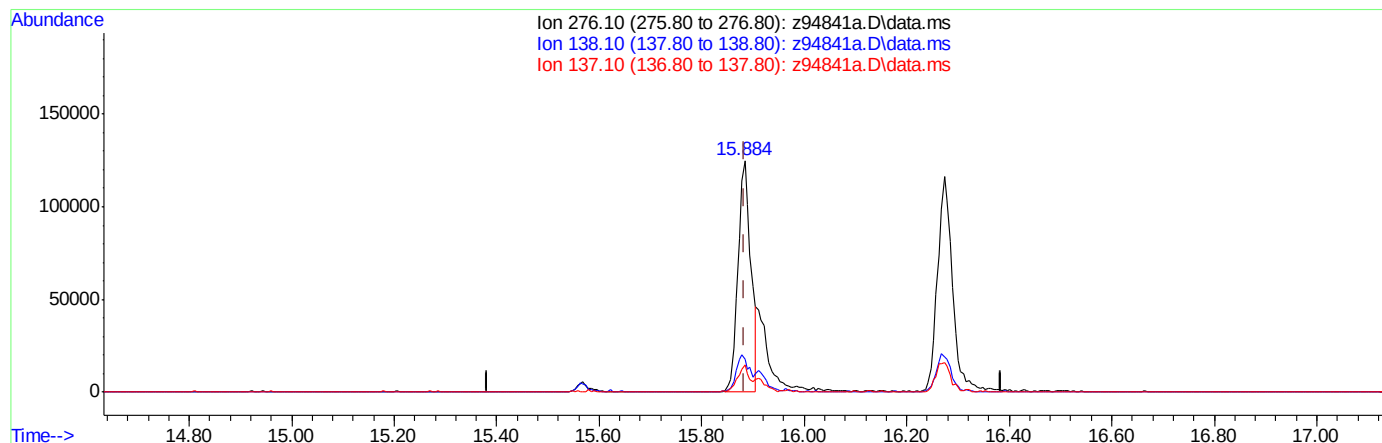
response 286580

Ion	Exp%	Act%
276.10	100	100
138.10	13.00	13.85
137.10	9.90	11.60
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\ez4711\
Data File : z94841a.D
Acq On : 26 Aug 2014 5:18 pm
Operator : ashleyv
Sample : ic4711-5
Misc : op76603,ez4711
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Aug 27 11:20:20 2014
Quant Method : C:\MSDCHEM\1\METHODS\MZ4711.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Wed Aug 27 11:16:51 2014
Response via : Initial Calibration



(97) Indeno[1,2,3-cd]pyrene (t)

15.884min (0.000) 4.19ppb m

response 219539

Ion	Exp%	Act%
276.10	100	100
138.10	13.00	14.34
137.10	9.90	11.96
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ez4711\
 Data File : z94842.D
 Acq On : 26 Aug 2014 5:44 pm
 Operator : ashleyv
 Sample : ic4711-10
 Misc : op76603,ez4711
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Aug 27 11:45:33 2014
 Quant Method : C:\MSDCHEM\1\METHODS\MZ4711.M
 Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
 QLast Update : Wed Aug 27 10:59:35 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	3.506	152	596209	40.00	ppb	0.00
24) Naphthalene-d8	4.841	136	2247339	40.00	ppb	0.00
47) Acenaphthene-d10	6.898	164	1353519	40.00	ppb	0.00
69) Phenanthrene-d10	8.693	188	2477541	40.00	ppb	0.00
83) Chrysene-d12	12.416	240	2844934	40.00	ppb	0.00
92) Perylene-d12	14.473	264	2484537	40.00	ppb	0.00
102) 1,4-Dichlorobenzene-d4a	3.506	152	596209	40.00	ppb	0.00
104) Phenanthrene-d10a	8.693	188	2477541	40.00	ppb	0.00
107) Chrysene-d12a	12.416	240	2844934	40.00	ppb	0.00
110) Acenaphthene-d10a	6.898	164	1353519	40.00	ppb	0.00
112) Naphthalene-d8a	4.841	136	2247339	40.00	ppb	0.00
114) Chrysene-d12b	12.416	240	2844934	40.00	ppb	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	2.416	112	190339	10.21	ppb	0.00
Spiked Amount 50.000			Recovery	=	20.42%	
8) Phenol-d5	3.169	99	243256	10.36	ppb	0.00
Spiked Amount 50.000			Recovery	=	20.72%	
25) Nitrobenzene-d5	4.061	82	244724	9.66	ppb	0.00
Spiked Amount 50.000			Recovery	=	19.32%	
51) 2-Fluorobiphenyl	6.107	172	504627	9.96	ppb	0.00
Spiked Amount 50.000			Recovery	=	19.92%	
73) 2,4,6-Tribromophenol	7.849	330	101664	10.02	ppb	0.00
Spiked Amount 50.000			Recovery	=	20.04%	
86) Terphenyl-d14	10.883	244	634710	9.99	ppb	0.00
Spiked Amount 50.000			Recovery	=	19.98%	
106) o-terphenyl	0.000	230	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
109) 1-chlorooctadecane	0.000	57	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
Target Compounds						
						Qvalue
2) 1,4-Dioxane	1.502	88	74109	10.59	ppb	88
3) Pyridine	1.663	79	183718	10.76	ppb	96
4) N-Nitrosodimethylamine	1.636	74	111495	10.66	ppb	90
6) Indene	3.757	116	347760	10.15	ppb	97
7) Cumene	2.800	105	540365	10.13	ppb	98
9) Phenol	3.180	94	292680	10.06	ppb	98
10) Aniline	3.201	93	296149	10.36	ppb	79
11) bis(2-Chloroethyl)ether	3.255	93	192468	10.12	ppb	96
12) 2-Chlorophenol	3.313	128	234423	9.85	ppb	98
13) Decane	3.345	43	405420	10.20	ppb	98
14) 1,3-Dichlorobenzene	3.452	146	268302	9.42	ppb	96
15) 1,4-Dichlorobenzene	3.522	146	275867	9.75	ppb	97
16) Benzyl alcohol	3.639	108	136829	9.52	ppb	94
17) 1,2-Dichlorobenzene	3.666	146	258713	9.98	ppb	94
18) Acetophenone	3.906	105	326017	10.32	ppb	98
19) 2-Methylphenol	3.762	108	186842	10.13	ppb	99
20) 2,2'-oxybis(1-Chloropr...	3.778	121	67345	9.01	ppb	# 80

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ez4711\
 Data File : z94842.D
 Acq On : 26 Aug 2014 5:44 pm
 Operator : ashleyv
 Sample : ic4711-10
 Misc : op76603,ez4711
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Aug 27 11:45:33 2014
 Quant Method : C:\MSDCHEM\1\METHODS\MZ4711.M
 Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
 QLast Update : Wed Aug 27 10:59:35 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
21) 3&4-Methylphenol	3.922	108	197538	9.93	ppb	96
22) n-Nitroso-di-n-propyla...	3.906	70	170884	10.16	ppb	99
23) Hexachloroethane	4.008	201	114718	9.94	ppb	96
26) Nitrobenzene	4.083	77	261389	9.82	ppb	98
27) Quinoline	5.247	129	406283	9.83	ppb	99
28) Isophorone	4.339	82	423932	9.98	ppb	98
29) 2-Nitrophenol	4.424	139	129209	9.98	ppb	85
30) 2,4-Dimethylphenol	4.489	107	212572	9.70	ppb	97
31) Benzoic Acid	4.622	105	151982	9.71	ppb #	100
32) bis(2-Chloroethoxy)met...	4.590	93	231265	9.62	ppb	94
33) 2,4-Dichlorophenol	4.697	162	208304	10.01	ppb	96
34) 2,6-Dichlorophenol	4.948	162	205224	9.94	ppb	98
35) 1,3,5-Trichlorobenzene	4.435	180	235358	9.77	ppb	97
36) 1,2,4-Trichlorobenzene	4.782	180	233589	9.83	ppb	98
37) 1,2,3-Trichlorobenzene	5.028	180	218142	9.50	ppb	100
38) Naphthalene	4.863	128	669688	9.52	ppb	97
39) 4-Chloroaniline	4.943	127	282593	10.04	ppb	97
40) 2,3-Dichloroaniline	6.000	161	236090	9.90	ppb	98
41) Caprolactam	5.333	55	152465	10.08	ppb	94
42) Hexachlorobutadiene	5.012	225	177215	10.16	ppb	98
43) 4-Chloro-3-methylphenol	5.536	107	231444	10.33	ppb	99
44) 2-Methylnaphthalene	5.664	141	386306	9.66	ppb	97
45) 1-Methylnaphthalene	5.776	141	360508	9.73	ppb	98
46) Dimethylnaphthalene	6.406	156	405891	9.72	ppb	95
48) Hexachlorocyclopentadiene	5.851	237	199179	24.79	ppb	96
49) 2,4,6-Trichlorophenol	6.016	196	171012	9.93	ppb	94
50) 2,4,5-Trichlorophenol	6.065	196	166129	9.65	ppb	97
52) 2-Chloronaphthalene	6.235	162	457154	9.99	ppb	99
53) Biphenyl	6.225	154	514388	9.80	ppb	99
54) 2-Nitroaniline	6.374	65	162749	9.82	ppb	97
55) Dimethylphthalate	6.615	163	530733	9.98	ppb	98
56) Acenaphthylene	6.722	152	697758	9.75	ppb	98
57) 2,6-Dinitrotoluene	6.684	165	124433	10.50	ppb	91
58) 3-Nitroaniline	6.877	138	124336	10.39	ppb	94
59) Acenaphthene	6.935	153	440674	9.79	ppb	99
60) 2,4-Dinitrophenol	7.015	184	116262	17.53	ppb	90
61) 4-Nitrophenol	7.138	109	86964	11.00	ppb #	84
62) Dibenzofuran	7.144	168	610095	9.69	ppb	97
63) 2,4-Dinitrotoluene	7.165	165	160781	9.79	ppb	96
64) 2,3,4,6-Tetrachlorophenol	7.309	232	155313	9.63	ppb	97
65) Diethylphthalate	7.470	149	541349	9.96	ppb	99
66) Fluorene	7.555	166	500050	9.57	ppb	97
67) 4-Chlorophenyl-phenyle...	7.576	204	263403	9.73	ppb	97
68) 4-Nitroaniline	7.608	138	117791	10.24	ppb	97
70) 4,6-Dinitro-2-methylph...	7.657	198	100828	11.58	ppb	96
71) n-Nitrosodiphenylamine	7.726	169	375825	9.88	ppb	98
72) 1,2-Diphenylhydrazine	7.763	77	504920	10.01	ppb	98
74) 4-Bromophenyl-phenylether	8.159	248	171877	9.74	ppb	96
75) Hexachlorobenzene	8.217	284	201030	9.59	ppb	94
76) Pentachlorophenol	8.474	266	209271	20.26	ppb	99

9.6.59

9

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ez4711\
 Data File : z94842.D
 Acq On : 26 Aug 2014 5:44 pm
 Operator : ashleyv
 Sample : ic4711-10
 Misc : op76603,ez4711
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Aug 27 11:45:33 2014
 Quant Method : C:\MSDCHEM\1\METHODS\MZ4711.M
 Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
 QLast Update : Wed Aug 27 10:59:35 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
77) Phenanthrene	8.720	178	763256	9.69	ppb	99
78) Anthracene	8.784	178	776507	9.80	ppb	99
79) Carbazole	9.008	167	639011	9.66	ppb	98
80) Di-n-butylphthalate	9.521	149	902202	9.88	ppb	98
81) Fluoranthene	10.296	202	900579	9.80	ppb	99
82) Octadecane	8.640	57	430731	9.98	ppb	97
84) Pyrene	10.605	202	952205	9.91	ppb	99
85) Butyl stearate	11.823	56	321125	10.25	ppb	97
87) Butylbenzylphthalate	11.658	149	404166	10.09	ppb	96
88) Benzo[a]anthracene	12.395	228	963080	9.83	ppb	99
89) 3,3'-Dichlorobenzidine	12.400	252	338326	10.25	ppb	94
90) Chrysene	12.449	228	888237	9.86	ppb	99
91) bis(2-Ethylhexyl)phtha...	12.577	149	559772	10.21	ppb	99
93) Di-n-octylphthalate	13.544	149	954566	10.47	ppb	99
94) Benzo[b]fluoranthene	13.955	252	965046	10.25	ppb	99
95) Benzo[k]fluoranthene	13.992	252	949941	10.41	ppb	99
96) Benzo[a]pyrene	14.382	252	857910	10.22	ppb	98
97) Indeno[1,2,3-cd]pyrene	15.884	276	856345	9.75	ppb	100
98) Dibenz(a,h)acridine	15.568	279	691430	10.38	ppb	98
99) Dibenz[a,h]anthracene	15.921	278	846790	10.44	ppb	99
100) 7,12-Dimethylbenz(a)an...	13.944	256	296619	11.57	ppb	98
101) Benzo[g,h,i]perylene	16.279	276	856612	10.34	ppb	97

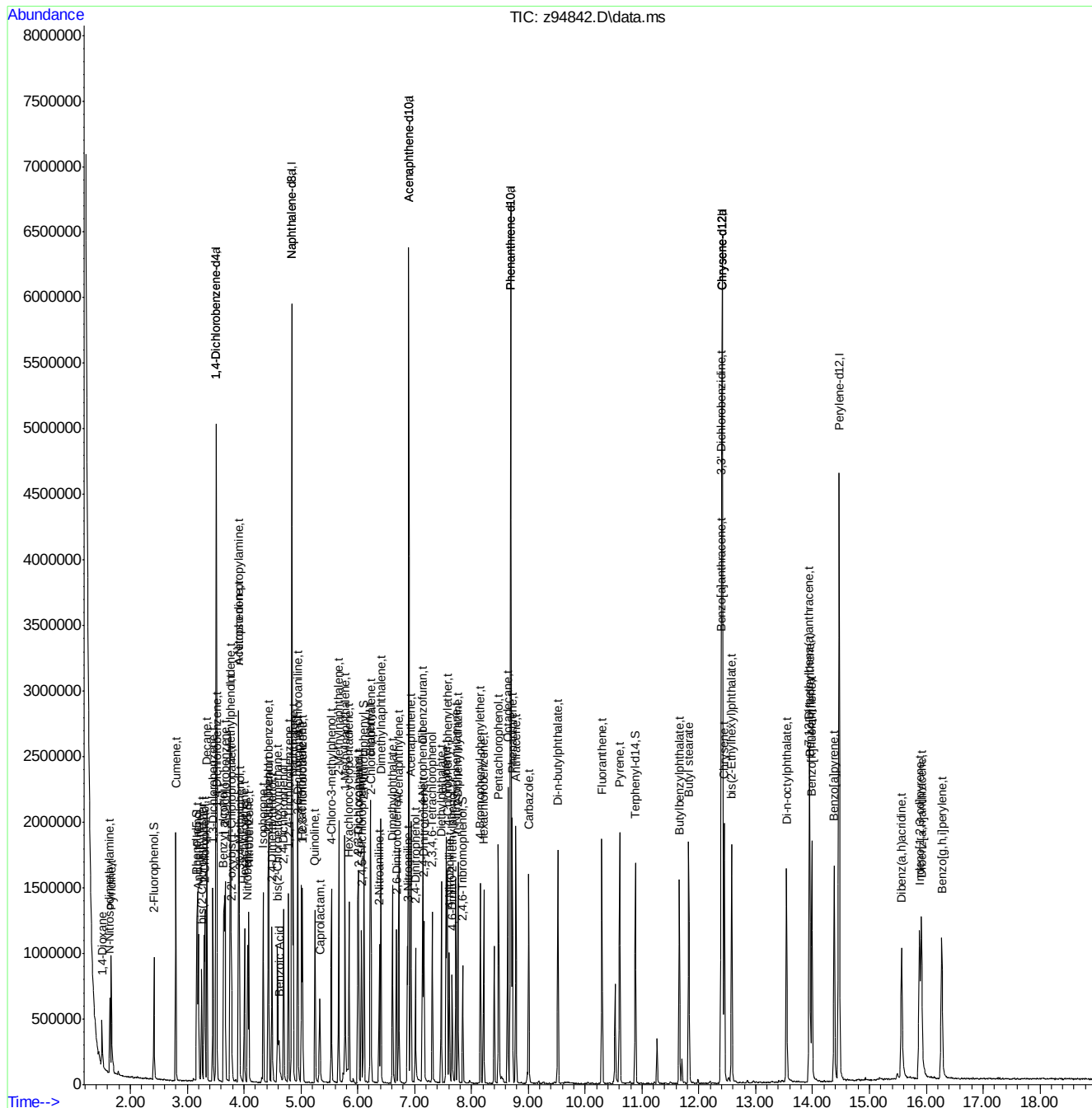
(#) = qualifier out of range (m) = manual integration (+) = signals summed

9.6.59

9

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Data Path   : C:\msdchem\1\DATA\ez4711\
Data File  : z94842.D
Acq On     : 26 Aug 2014    5:44 pm
Operator   : ashleyv
Sample     : ic4711-10
Misc       : op76603,ez4711
ALS Vial   : 12    Sample Multiplier: 1
```

Quant Time: Aug 27 11:45:33 2014
Quant Method : C:\MSDCHEM\1\METHODS\MZ4711.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Wed Aug 27 10:59:35 2014
Response via : Initial Calibration



Page: 4

9.6.59

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ez4711\
 Data File : z94843.D
 Acq On : 26 Aug 2014 6:10 pm
 Operator : ashleyv
 Sample : ic4711-25
 Misc : op76603,ez4711
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Aug 27 11:05:17 2014
 Quant Method : C:\MSDCHEM\1\METHODS\MZ4711.M
 Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
 QLast Update : Wed Aug 27 11:04:40 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) 1,4-Dichlorobenzene-d4	3.506	152	232182	40.00	ppb	0.00
24) Naphthalene-d8	4.841	136	860939	40.00	ppb	0.00
47) Acenaphthene-d10	6.893	164	532075	40.00	ppb	0.00
69) Phenanthrene-d10	8.688	188	973013	40.00	ppb	0.00
83) Chrysene-d12	12.411	240	1135382	40.00	ppb	0.00
92) Perylene-d12	14.463	264	1073066	40.00	ppb	-0.01
102) 1,4-Dichlorobenzene-d4a	3.506	152	232182	40.00	ppb	0.00
104) Phenanthrene-d10a	8.688	188	973013	40.00	ppb	0.00
107) Chrysene-d12a	12.411	240	1135382	40.00	ppb	0.00
110) Acenaphthene-d10a	6.893	164	532075	40.00	ppb	0.00
112) Naphthalene-d8a	4.841	136	860939	40.00	ppb	0.00
114) Chrysene-d12b	12.411	240	1135382	40.00	ppb	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	2.416	112	174204	23.91	ppb	0.00
Spiked Amount	50.000		Recovery	=	47.82%	
8) Phenol-d5	3.169	99	214063	23.26	ppb	0.00
Spiked Amount	50.000		Recovery	=	46.52%	
25) Nitrobenzene-d5	4.061	82	217618	22.55	ppb	0.00
Spiked Amount	50.000		Recovery	=	45.10%	
51) 2-Fluorobiphenyl	6.107	172	457292	22.97	ppb	0.00
Spiked Amount	50.000		Recovery	=	45.94%	
73) 2,4,6-Tribromophenol	7.849	330	90782	22.78	ppb	0.00
Spiked Amount	50.000		Recovery	=	45.56%	
86) Terphenyl-d14	10.883	244	571110	22.53	ppb	0.00
Spiked Amount	50.000		Recovery	=	45.06%	
106) o-terphenyl	0.000	230	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
109) 1-chlorooctadecane	0.000	57	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
Target Compounds						
						Qvalue
2) 1,4-Dioxane	1.502	88	63471	23.07	ppb	97
3) Pyridine	1.663	79	163940	24.36	ppb	89
4) N-Nitrosodimethylamine	1.636	74	100225	24.34	ppb	88
6) Indene	3.757	116	309289	23.12	ppb	98
7) Cumene	2.800	105	479926	23.06	ppb	99
9) Phenol	3.180	94	259443	22.88	ppb	97
10) Aniline	3.201	93	278421	24.85	ppb	80
11) bis(2-Chloroethyl)ether	3.255	93	173050	23.32	ppb	93
12) 2-Chlorophenol	3.308	128	217672	23.55	ppb	98
13) Decane	3.345	43	363083	23.39	ppb	98
14) 1,3-Dichlorobenzene	3.452	146	247973	22.57	ppb	95
15) 1,4-Dichlorobenzene	3.522	146	247578	22.56	ppb	98
16) Benzyl alcohol	3.639	108	128761	23.18	ppb	98
17) 1,2-Dichlorobenzene	3.666	146	238226	23.60	ppb	100
18) Acetophenone	3.906	105	286462	23.16	ppb	97
19) 2-Methylphenol	3.762	108	167316	23.25	ppb	98
20) 2,2'-oxybis(1-Chloropr...	3.778	121	65520	22.88	ppb	# 90

```
Data Path   : C:\msdchem\1\DATA\ez4711\
Data File  : z94843.D
Acq On     : 26 Aug 2014    6:10 pm
Operator   : ashleyv
Sample     : ic4711-25
Misc       : op76603,ez4711
ALS Vial   : 13    Sample Multiplier: 1
```

Quant Time: Aug 27 11:05:17 2014
Quant Method : C:\MSDCHEM\1\METHODS\MZ4711.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Wed Aug 27 11:04:40 2014
Response via : Initial Calibration

Compound		R.T.	QIon	Response	Conc	Units	Dev(Min)
21)	3&4-Methylphenol	3.922	108	179144	23.14	ppb	98
22)	n-Nitroso-di-n-propyla...	3.906	70	155359	23.67	ppb	98
23)	Hexachloroethane	4.008	201	104672	23.32	ppb	97
26)	Nitrobenzene	4.083	77	233782	23.00	ppb	95
27)	Quinoline	5.247	129	372474	23.58	ppb	96
28)	Isophorone	4.339	82	386416	23.74	ppb	100
29)	2-Nitrophenol	4.424	139	115453	23.29	ppb	84
30)	2,4-Dimethylphenol	4.489	107	214410	25.66	ppb	98
31)	Benzoic Acid	4.617	105	132682	22.23	ppb	# 100
32)	bis(2-Chloroethoxy)met...	4.590	93	208006	22.72	ppb	96
33)	2,4-Dichlorophenol	4.697	162	194252	24.35	ppb	92
34)	2,6-Dichlorophenol	4.948	162	184394	23.33	ppb	99
35)	1,3,5-Trichlorobenzene	4.435	180	211168	22.98	ppb	97
36)	1,2,4-Trichlorobenzene	4.782	180	212621	23.41	ppb	94
37)	1,2,3-Trichlorobenzene	5.028	180	198216	22.73	ppb	98
38)	Naphthalene	4.863	128	604628	22.62	ppb	99
39)	4-Chloroaniline	4.943	127	253574	23.50	ppb	94
40)	2,3-Dichloroaniline	6.000	161	208754	22.89	ppb	96
41)	Caprolactam	5.327	55	130095	22.42	ppb	97
42)	Hexachlorobutadiene	5.012	225	160748	23.99	ppb	98
43)	4-Chloro-3-methylphenol	5.536	107	201020	23.30	ppb	97
44)	2-Methylnaphthalene	5.664	141	346250	22.73	ppb	98
45)	1-Methylnaphthalene	5.776	141	326809	23.14	ppb	98
46)	Dimethylnaphthalene	6.406	156	367170	23.06	ppb	98
48)	Hexachlorocyclopentadiene	5.851	237	178366	54.31	ppb	97
49)	2,4,6-Trichlorophenol	6.016	196	156332	23.12	ppb	99
50)	2,4,5-Trichlorophenol	6.065	196	153685	22.85	ppb	96
52)	2-Chloronaphthalene	6.235	162	415726	23.12	ppb	98
53)	Biphenyl	6.225	154	468025	22.76	ppb	100
54)	2-Nitroaniline	6.374	65	150612	23.18	ppb	98
55)	Dimethylphthalate	6.615	163	467015	22.34	ppb	99
56)	Acenaphthylene	6.722	152	646137	23.07	ppb	99
57)	2,6-Dinitrotoluene	6.679	165	104508	22.25	ppb	100
58)	3-Nitroaniline	6.871	138	111049	23.44	ppb	93
59)	Acenaphthene	6.935	153	397287	22.53	ppb	98
60)	2,4-Dinitrophenol	7.015	184	103104	40.37	ppb	93
61)	4-Nitrophenol	7.138	109	80284	25.42	ppb	99
62)	Dibenzofuran	7.144	168	548032	22.26	ppb	98
63)	2,4-Dinitrotoluene	7.165	165	146608	22.79	ppb	94
64)	2,3,4,6-Tetrachlorophenol	7.309	232	140498	22.31	ppb	98
65)	Diethylphthalate	7.470	149	481279	22.54	ppb	98
66)	Fluorene	7.555	166	460040	22.57	ppb	98
67)	4-Chlorophenyl-phenyle...	7.576	204	245357	23.16	ppb	95
68)	4-Nitroaniline	7.608	138	107259	23.63	ppb	93
70)	4,6-Dinitro-2-methylph...	7.657	198	91741	26.13	ppb	98
71)	n-Nitrosodiphenylamine	7.726	169	338193	22.68	ppb	95
72)	1,2-Diphenylhydrazine	7.763	77	454608	22.94	ppb	99
74)	4-Bromophenyl-phenylether	8.159	248	157859	22.87	ppb	100
75)	Hexachlorobenzene	8.217	284	186610	22.82	ppb	92
76)	Pentachlorophenol	8.474	266	196233	48.27	ppb	97

09.9.6

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ez4711\
 Data File : z94843.D
 Acq On : 26 Aug 2014 6:10 pm
 Operator : ashleyv
 Sample : ic4711-25
 Misc : op76603,ez4711
 ALS Vial : 13 Sample Multiplier: 1

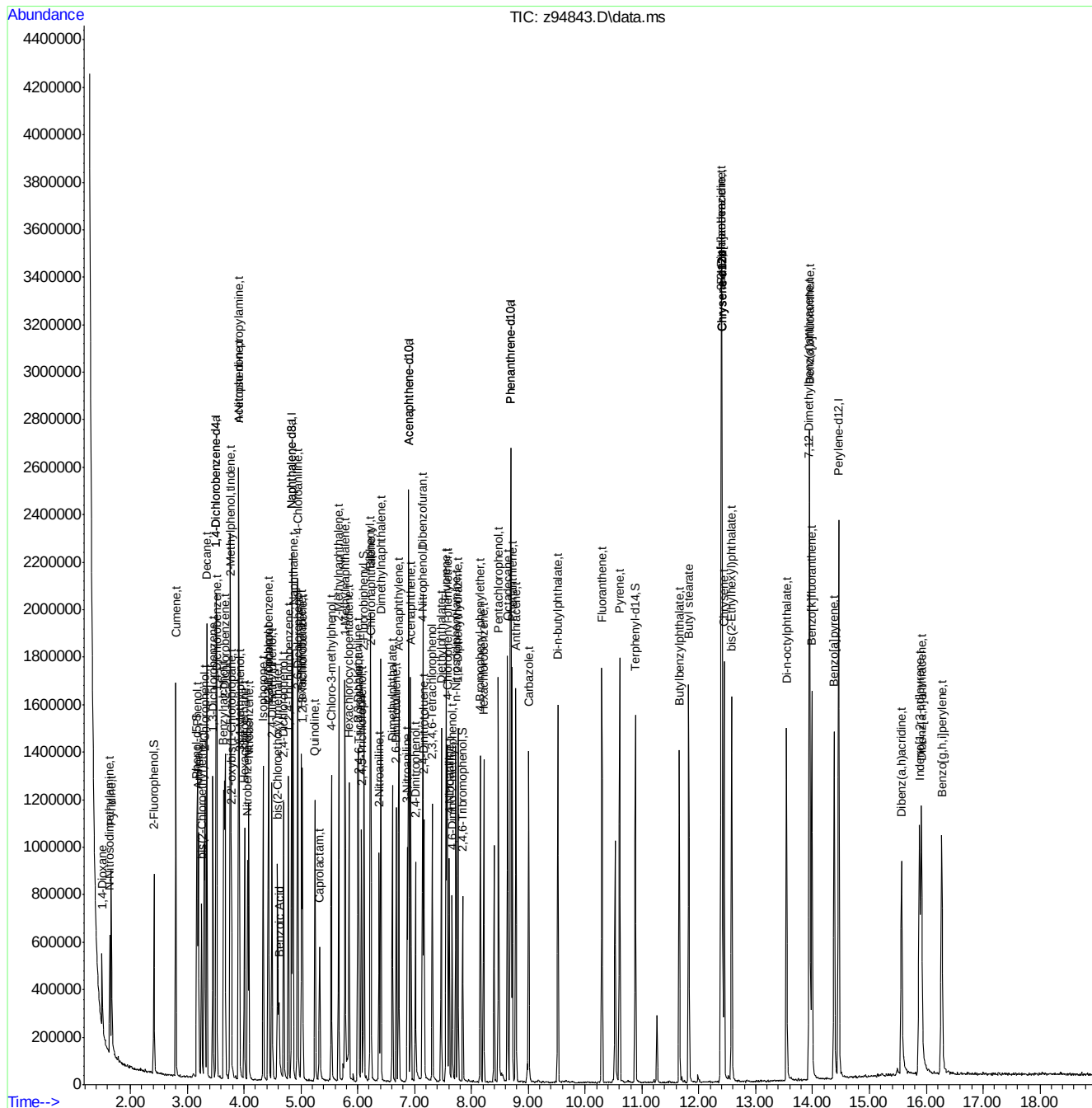
Quant Time: Aug 27 11:05:17 2014
 Quant Method : C:\MSDCHEM\1\METHODS\MZ4711.M
 Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
 QLast Update : Wed Aug 27 11:04:40 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
77) Phenanthrene	8.714	178	681713	22.16	ppb	99
78) Anthracene	8.784	178	696965	22.46	ppb	98
79) Carbazole	9.008	167	584870	22.64	ppb	97
80) Di-n-butylphthalate	9.521	149	800628	22.38	ppb	99
81) Fluoranthene	10.296	202	812270	22.59	ppb	98
82) Octadecane	8.640	57	377462	22.28	ppb	96
84) Pyrene	10.605	202	860787	22.48	ppb	100
85) Butyl stearate	11.823	56	279086	22.24	ppb	97
87) Butylbenzylphthalate	11.658	149	363116	22.67	ppb	96
88) Benzo[a]anthracene	12.395	228	854085	21.91	ppb	99
89) 3,3'-Dichlorobenzidine	12.400	252	311186	23.53	ppb	97
90) Chrysene	12.449	228	809786	22.57	ppb	98
91) bis(2-Ethylhexyl)phtha...	12.577	149	500098	22.78	ppb	99
93) Di-n-octylphthalate	13.544	149	864692	21.78	ppb	98
94) Benzo[b]fluoranthene	13.950	252	875451	21.43	ppb	96
95) Benzo[k]fluoranthene	13.992	252	843811	21.26	ppb	98
96) Benzo[a]pyrene	14.382	252	774068	21.28	ppb	95
97) Indeno[1,2,3-cd]pyrene	15.884	276	782492	20.71	ppb	97
98) Dibenz(a,h)acridine	15.568	279	625436	21.59	ppb	99
99) Dibenz[a,h]anthracene	15.916	278	781838	22.16	ppb	99
100) 7,12-Dimethylbenz(a)an...	13.944	256	375781	33.08	ppb	97
101) Benzo[g,h,i]perylene	16.279	276	787013	21.87	ppb	96

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

Data Path : C:\msdchem\1\DATA\ez4711\
Data File : z94843.D
Acq On : 26 Aug 2014 6:10 pm
Operator : ashleyv
Sample : ic4711-25
Misc : op76603,ez4711
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Aug 27 11:05:17 2014
Quant Method : C:\MSDCHEM\1\METHODS\MZ4711.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Wed Aug 27 11:04:40 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ez4711\
 Data File : z94844.D
 Acq On : 26 Aug 2014 6:36 pm
 Operator : ashleyv
 Sample : ic4711-80
 Misc : op76603,ez4711
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Aug 27 12:43:45 2014
 Quant Method : C:\MSDCHEM\1\METHODS\MZ4711.M
 Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
 QLast Update : Wed Aug 27 11:06:26 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	3.511	152	387240	40.00	ppb	0.00
24) Naphthalene-d8	4.846	136	1420914	40.00	ppb	0.00
47) Acenaphthene-d10	6.898	164	874826	40.00	ppb	0.00
69) Phenanthrene-d10	8.698	188	1559236	40.00	ppb	0.00
83) Chrysene-d12	12.427	240	1819883	40.00	ppb	0.00
92) Perylene-d12	14.473	264	1566739	40.00	ppb	0.00
102) 1,4-Dichlorobenzene-d4a	3.511	152	387240	40.00	ppb	0.00
104) Phenanthrene-d10a	8.698	188	1559236	40.00	ppb	0.00
107) Chrysene-d12a	12.427	240	1819883	40.00	ppb	0.00
110) Acenaphthene-d10a	6.898	164	874826	40.00	ppb	0.00
112) Naphthalene-d8a	4.846	136	1420914	40.00	ppb	0.00
114) Chrysene-d12b	12.427	240	1819883	40.00	ppb	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	2.421	112	963417	79.80	ppb	0.00
Spiked Amount 50.000			Recovery	=	159.60%	
8) Phenol-d5	3.180	99	1186379	78.32	ppb	0.00
Spiked Amount 50.000			Recovery	=	156.64%	
25) Nitrobenzene-d5	4.072	82	1192116	76.39	ppb	0.00
Spiked Amount 50.000			Recovery	=	152.78%	
51) 2-Fluorobiphenyl	6.118	172	2436269	75.85	ppb	0.00
Spiked Amount 50.000			Recovery	=	151.70%	
73) 2,4,6-Tribromophenol	7.859	330	500190	79.40	ppb	0.00
Spiked Amount 50.000			Recovery	=	158.80%	
86) Terphenyl-d14	10.894	244	3057422	76.77	ppb	0.00
Spiked Amount 50.000			Recovery	=	153.54%	
106) o-terphenyl	0.000	230	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
109) 1-chlorooctadecane	0.000	57	0d	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
Target Compounds						
						Qvalue
2) 1,4-Dioxane	1.502	88	342086	75.93	ppb	96
3) Pyridine	1.663	79	918846	81.88	ppb	93
4) N-Nitrosodimethylamine	1.636	74	560744	81.72	ppb	90
6) Indene	3.762	116	1733974	78.73	ppb	97
7) Cumene	2.800	105	2622436	76.83	ppb	99
9) Phenol	3.196	94	1486028	79.61	ppb	98
10) Aniline	3.206	93	1209573	66.37	ppb	74
11) bis(2-Chloroethyl)ether	3.265	93	956202	78.26	ppb	93
12) 2-Chlorophenol	3.319	128	1170234	76.95	ppb	97
13) Decane	3.351	43	1837691	72.58	ppb	91
14) 1,3-Dichlorobenzene	3.458	146	1342602	74.97	ppb	98
15) 1,4-Dichlorobenzene	3.527	146	1344853	75.17	ppb	98
16) Benzyl alcohol	3.655	108	722234	78.94	ppb	87
17) 1,2-Dichlorobenzene	3.671	146	1257838	75.86	ppb	97
18) Acetophenone	3.917	105	1525244	75.35	ppb	91
19) 2-Methylphenol	3.767	108	932560	78.67	ppb	96
20) 2,2'-oxybis(1-Chloropr...	3.783	121	346507	74.21	ppb #	85

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ez4711\
 Data File : z94844.D
 Acq On : 26 Aug 2014 6:36 pm
 Operator : ashleyv
 Sample : ic4711-80
 Misc : op76603,ez4711
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Aug 27 12:43:45 2014
 Quant Method : C:\MSDCHEM\1\METHODS\MZ4711.M
 Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
 QLast Update : Wed Aug 27 11:06:26 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
21) 3&4-Methylphenol	3.938	108	1010308	79.21	ppb	94
22) n-Nitroso-di-n-propyla...	3.922	70	807871	75.01	ppb	90
23) Hexachloroethane	4.008	201	547511	74.55	ppb	93
26) Nitrobenzene	4.093	77	1271315	77.06	ppb	98
27) Quinoline	5.274	129	2028495	78.64	ppb	96
28) Isophorone	4.355	82	2039013	76.89	ppb	97
29) 2-Nitrophenol	4.435	139	648830	80.09	ppb	90
30) 2,4-Dimethylphenol	4.505	107	1205594	86.15	ppb	97
31) Benzoic Acid	4.702	105	904200m	91.28	ppb	
32) bis(2-Chloroethoxy)met...	4.595	93	1147042	77.29	ppb	96
33) 2,4-Dichlorophenol	4.708	162	1009536	77.34	ppb	98
34) 2,6-Dichlorophenol	4.959	162	990222	77.05	ppb	98
35) 1,3,5-Trichlorobenzene	4.440	180	1123911	75.56	ppb	96
36) 1,2,4-Trichlorobenzene	4.788	180	1130070	76.56	ppb	94
37) 1,2,3-Trichlorobenzene	5.039	180	1059279	75.21	ppb	97
38) Naphthalene	4.873	128	3398672	78.32	ppb	99
39) 4-Chloroaniline	4.953	127	1249851	71.83	ppb	96
40) 2,3-Dichloroaniline	6.011	161	1130722	76.52	ppb	97
41) Caprolactam	5.386	55	732348m	77.86	ppb	
42) Hexachlorobutadiene	5.017	225	794449	73.14	ppb	99
43) 4-Chloro-3-methylphenol	5.557	107	1092843	77.80	ppb	98
44) 2-Methylnaphthalene	5.669	141	1915604	77.55	ppb	96
45) 1-Methylnaphthalene	5.781	141	1755632	76.58	ppb	93
46) Dimethylnaphthalene	6.417	156	2016551	77.90	ppb	97
48) Hexachlorocyclopentadiene	5.856	237	1389390	236.76	ppb	98
49) 2,4,6-Trichlorophenol	6.022	196	854922	78.01	ppb	100
50) 2,4,5-Trichlorophenol	6.081	196	829540	76.42	ppb	96
52) 2-Chloronaphthalene	6.246	162	2232036	76.75	ppb	97
53) Biphenyl	6.230	154	2614706	78.55	ppb	96
54) 2-Nitroaniline	6.396	65	826415	78.39	ppb	86
55) Dimethylphthalate	6.625	163	2512613	74.91	ppb	100
56) Acenaphthylene	6.732	152	3515575	77.53	ppb	99
57) 2,6-Dinitrotoluene	6.695	165	582053	76.99	ppb	93
58) 3-Nitroaniline	6.893	138	618452	80.11	ppb	92
59) Acenaphthene	6.941	153	2162105	76.17	ppb	99
60) 2,4-Dinitrophenol	7.031	184	808677	192.33	ppb	92
61) 4-Nitrophenol	7.154	109	402561	77.65	ppb	# 71
62) Dibenzofuran	7.154	168	3027998	76.46	ppb	97
63) 2,4-Dinitrotoluene	7.181	165	812696	78.09	ppb	70
64) 2,3,4,6-Tetrachlorophenol	7.320	232	792459	77.99	ppb	99
65) Diethylphthalate	7.486	149	2588378	75.39	ppb	99
66) Fluorene	7.566	166	2507661	76.36	ppb	100
67) 4-Chlorophenyl-phenyle...	7.582	204	1284517	75.18	ppb	93
68) 4-Nitroaniline	7.640	138	595321	80.34	ppb	90
70) 4,6-Dinitro-2-methylph...	7.683	198	559471	95.99	ppb	84
71) n-Nitrosodiphenylamine	7.737	169	1845558	78.48	ppb	97
72) 1,2-Diphenylhydrazine	7.774	77	2447506	78.23	ppb	100
74) 4-Bromophenyl-phenylether	8.169	248	817287	75.41	ppb	96
75) Hexachlorobenzene	8.228	284	964588	75.19	ppb	92
76) Pentachlorophenol	8.485	266	1157434	176.01	ppb	99

9.6.61
9

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ez4711\
 Data File : z94844.D
 Acq On : 26 Aug 2014 6:36 pm
 Operator : ashleyv
 Sample : ic4711-80
 Misc : op76603,ez4711
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Aug 27 12:43:45 2014
 Quant Method : C:\MSDCHEM\1\METHODS\MZ4711.M
 Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
 QLast Update : Wed Aug 27 11:06:26 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
77) Phenanthrene	8.730	178	3745683	77.57	ppb	100
78) Anthracene	8.794	178	3767769	77.27	ppb	100
79) Carbazole	9.024	167	3191330	78.38	ppb	98
80) Di-n-butylphthalate	9.526	149	4433796	78.69	ppb	99
81) Fluoranthene	10.312	202	4421512	78.07	ppb	97
82) Octadecane	8.645	57	2085282	78.25	ppb	92
84) Pyrene	10.621	202	4654308	77.32	ppb	96
85) Butyl stearate	11.829	56	1571064	79.43	ppb	96
87) Butylbenzylphthalate	11.669	149	2000432	79.10	ppb	97
88) Benzo[a]anthracene	12.406	228	4586886	75.36	ppb	100
89) 3,3'-Dichlorobenzidine	12.416	252	1623861	77.58	ppb	97
90) Chrysene	12.470	228	4380835	77.59	ppb	97
91) bis(2-Ethylhexyl)phtha...	12.587	149	2773456	79.85	ppb	99
93) Di-n-octylphthalate	13.560	149	4877980	84.97	ppb	97
94) Benzo[b]fluoranthene	13.982	252	4881793	83.10	ppb	97
95) Benzo[k]fluoranthene	14.019	252	4364781	77.31	ppb	97
96) Benzo[a]pyrene	14.404	252	4086393	78.78	ppb	94
97) Indeno[1,2,3-cd]pyrene	15.916	276	4612575	84.95	ppb	99
98) Dibenz(a,h)acridine	15.590	279	3437816	82.53	ppb	97
99) Dibenz[a,h]anthracene	15.953	278	4248233	83.33	ppb	97
100) 7,12-Dimethylbenz(a)an...	13.971	256	2022064	110.23	ppb	98
101) Benzo[g,h,i]perylene	16.316	276	4136807	80.14	ppb	99

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

Data Path : C:\msdchem\1\DATA\ez4711\
Data File : z94844.D
Acq On : 26 Aug 2014 6:36 pm
Operator : ashleyv
Sample : ic4711-80
Misc : op76603,ez4711
ALS Vial : 14 Sample Multiplier: 1

[illegible]

9.6.61

Manual Integration Approval Summary

Sample Number: EZ4711-IC4711

Method: SW846 8270D

Lab FileID: Z94844.D

Analyst approved: 08/27/14 12:49 Ashley Royal

Injection Time: 08/26/14 18:36

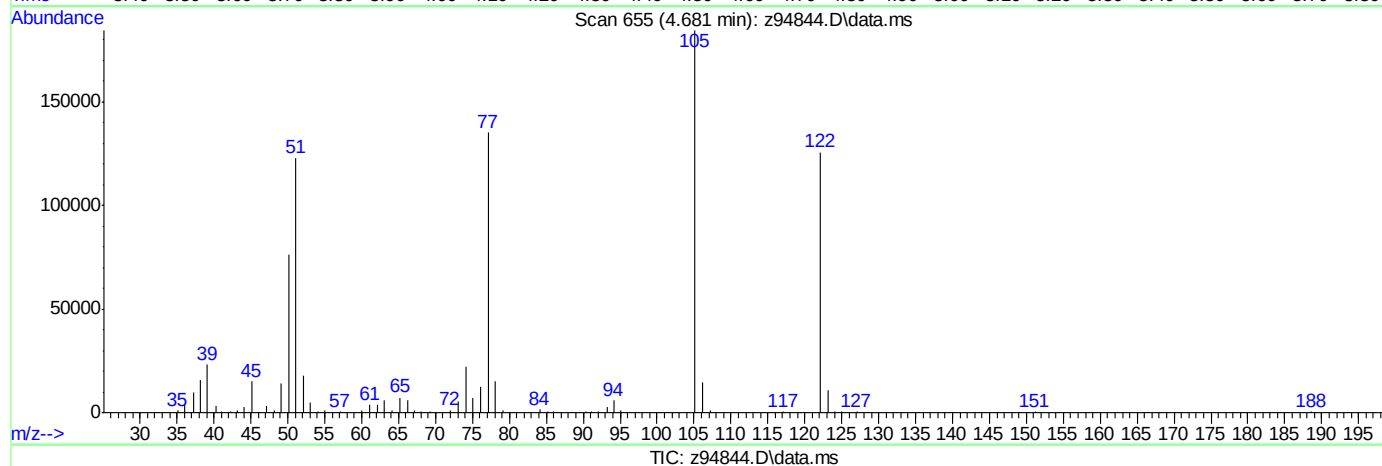
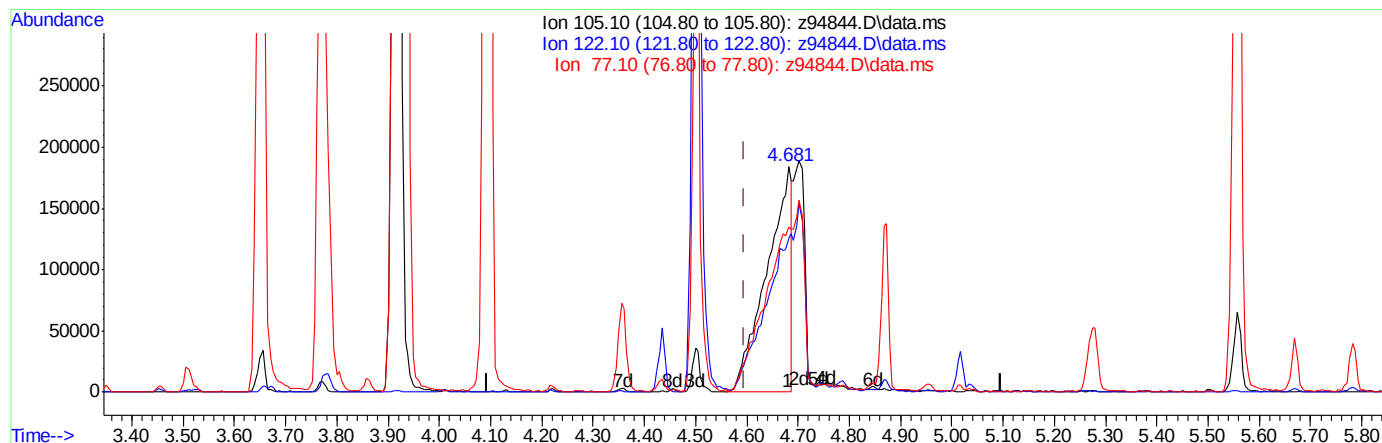
Supervisor approved: 08/27/14 18:08 Nina Pandya

Parameter	CAS	Sig#	R.T. (min.)	Reason
Benzoic Acid	65-85-0		4.70	Poor instrument integration
Caprolactam	105-60-2		5.39	Poor instrument integration

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\ez4711\
Data File : z94844.D
Acq On : 26 Aug 2014 6:36 pm
Operator : ashleyv
Sample : ic4711-80
Misc : op76603,ez4711
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Aug 26 18:55:16 2014
Quant Method : C:\MSDCHEM\1\METHODS\MZ4711.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Tue Aug 26 16:01:21 2014
Response via : Initial Calibration



(31) Benzoic Acid

4.681min (+0.085) 52.03ppb

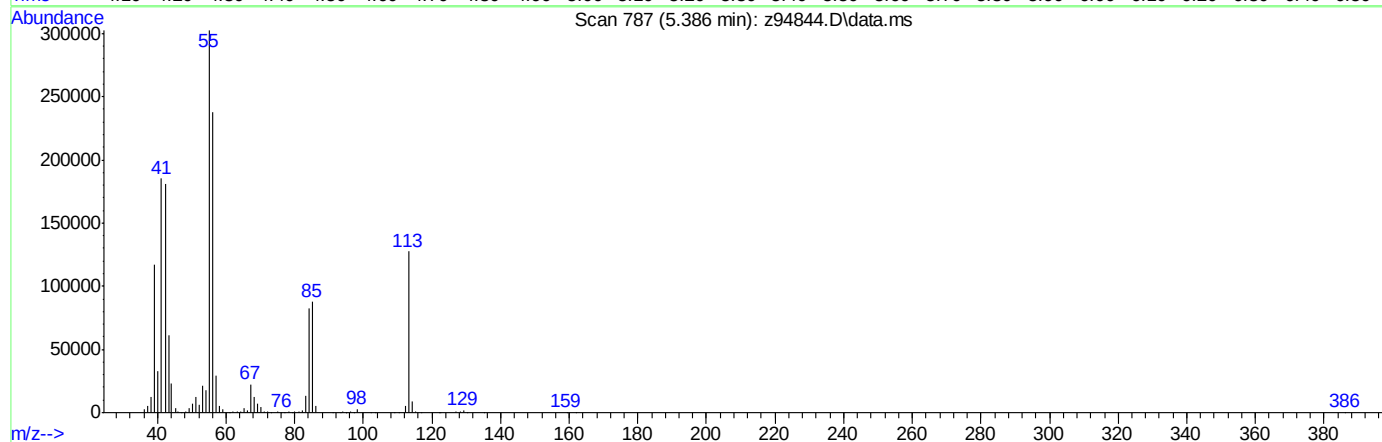
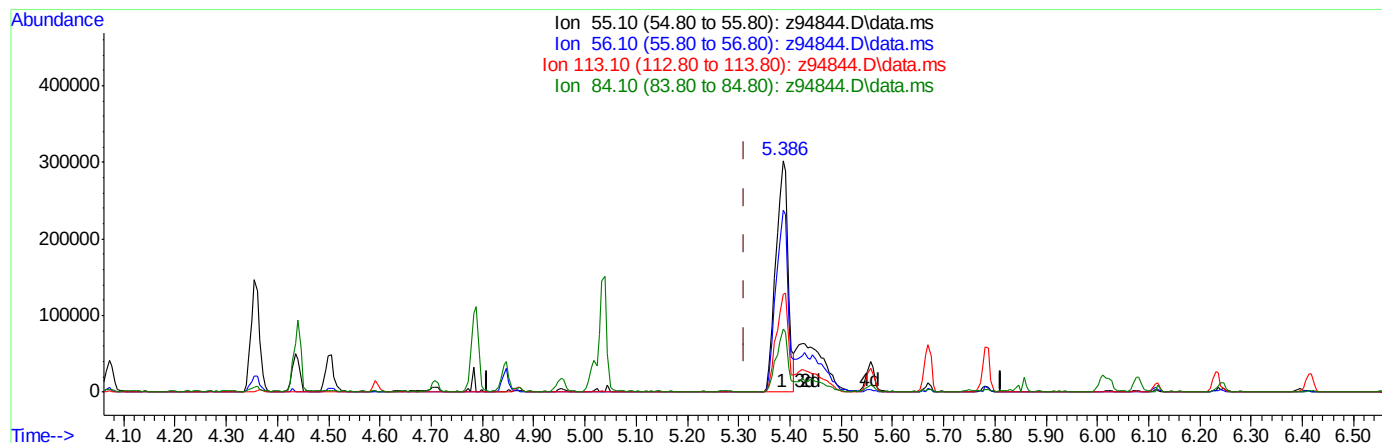
response 611912

Ion	Exp%	Act%
105.10	100	100
122.10	0.00	25.88#
77.10	0.00	79.79#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\ez4711\
Data File : z94844.D
Acq On : 26 Aug 2014 6:36 pm
Operator : ashleyv
Sample : ic4711-80
Misc : op76603,ez4711
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Aug 26 18:55:16 2014
Quant Method : C:\MSDCHEM\1\METHODS\MZ4711.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Tue Aug 26 16:01:21 2014
Response via : Initial Calibration



(41) Caprolactam (t)

5.386min (+0.075) 43.08ppb

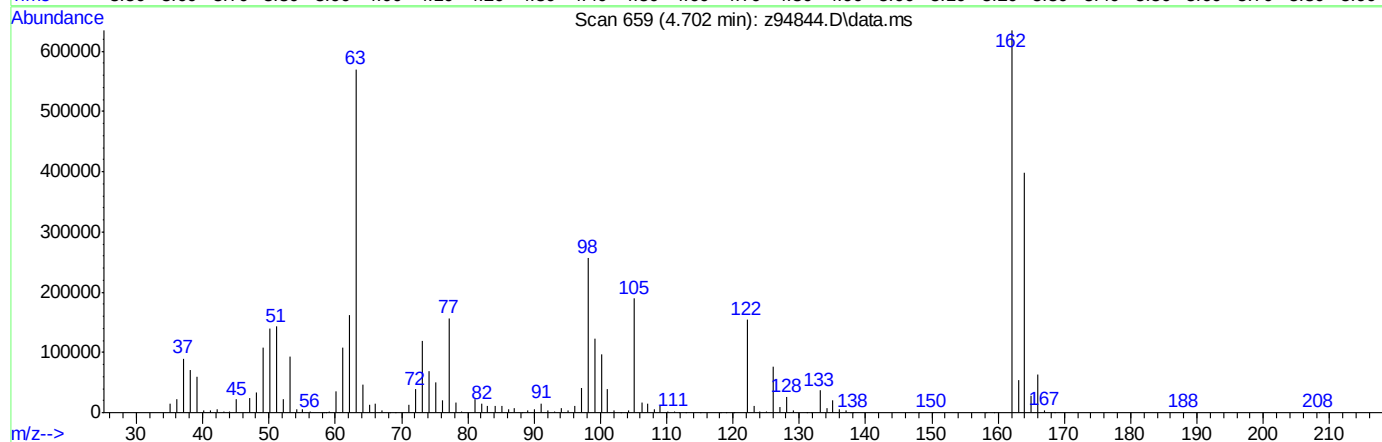
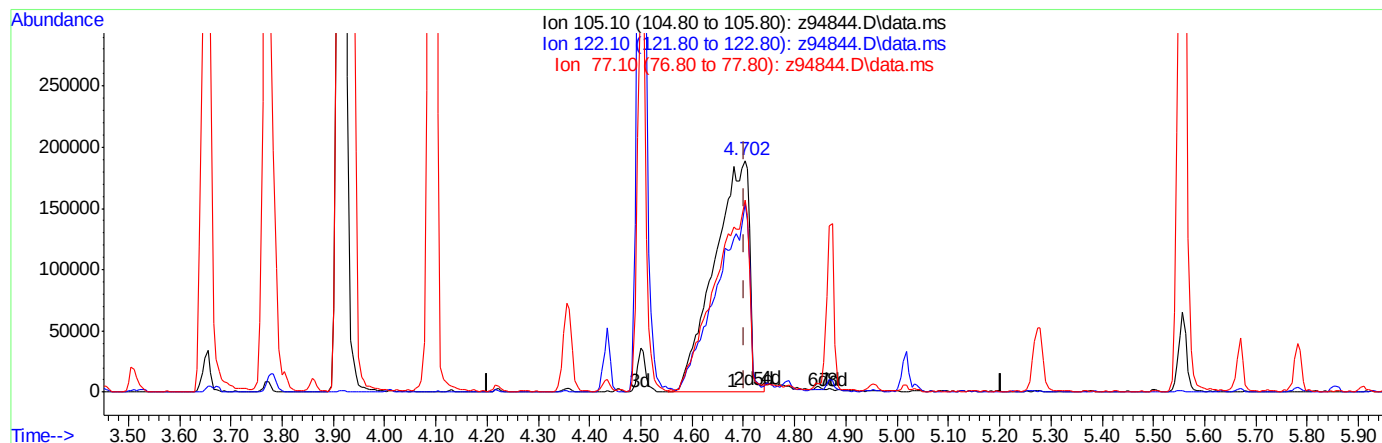
response 498516

Ion	Exp%	Act%
55.10	100	100
56.10	78.30	77.79
113.10	39.90	41.81
84.10	23.40	27.18

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\ez4711\
Data File : z94844.D
Acq On : 26 Aug 2014 6:36 pm
Operator : ashleyv
Sample : ic4711-80
Misc : op76603,ez4711
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Aug 27 11:06:47 2014
Quant Method : C:\MSDCHEM\1\METHODS\MZ4711.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Wed Aug 27 11:06:26 2014
Response via : Initial Calibration



(31) Benzoic Acid

4.702min (0.000) 91.28ppb m

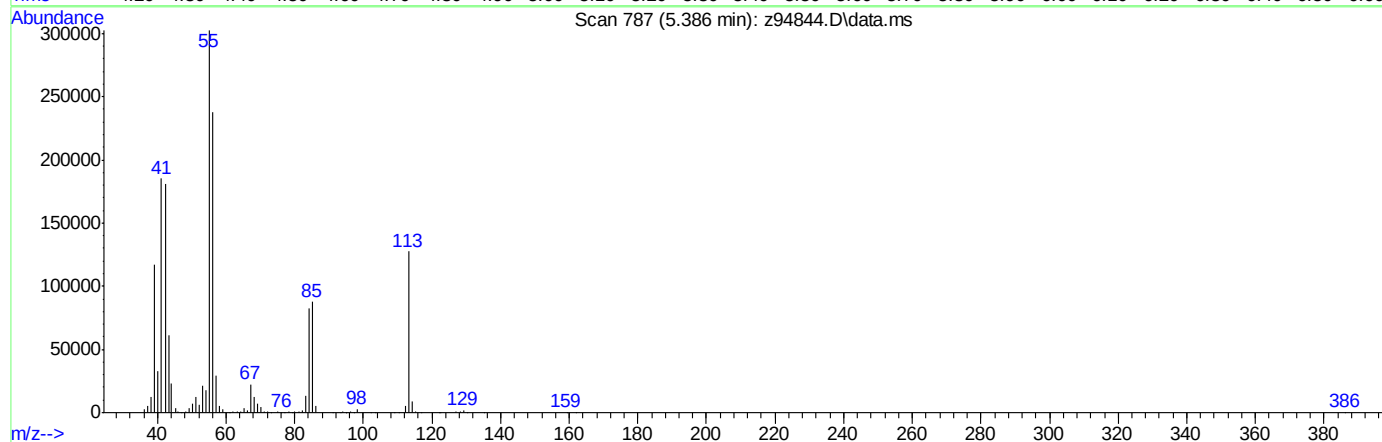
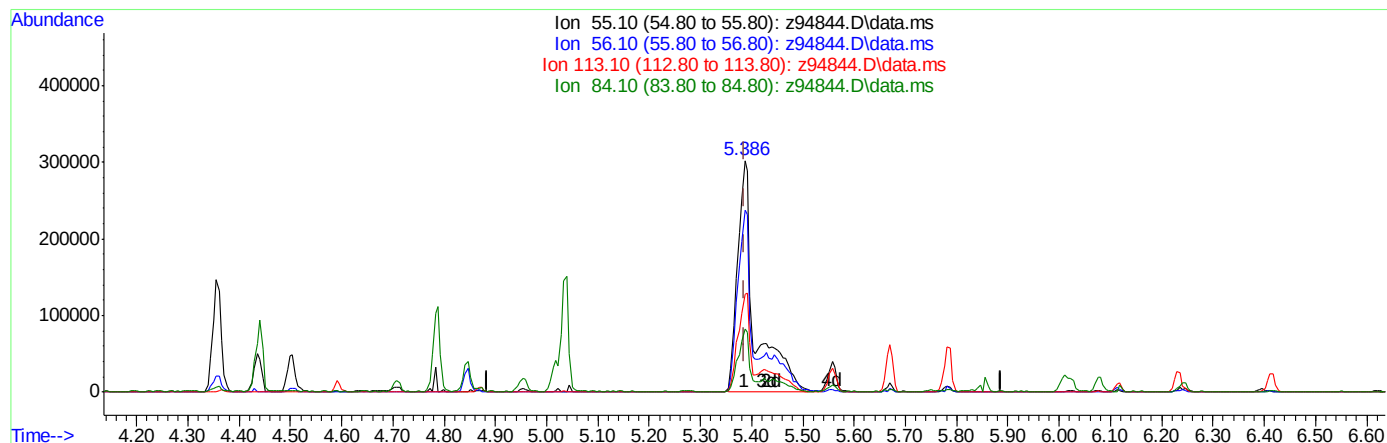
response 904200

Ion	Exp%	Act%
105.10	100	100
122.10	0.00	17.51
77.10	0.00	54.00#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\ez4711\
Data File : z94844.D
Acq On : 26 Aug 2014 6:36 pm
Operator : ashleyv
Sample : ic4711-80
Misc : op76603,ez4711
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Aug 27 11:06:47 2014
Quant Method : C:\MSDCHEM\1\METHODS\MZ4711.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Wed Aug 27 11:06:26 2014
Response via : Initial Calibration



(41) Caprolactam (t)

5.386min (0.000) 77.86ppb m

response 732348

Ion	Exp%	Act%
55.10	100	100
56.10	78.30	78.46
113.10	39.90	42.18
84.10	23.40	27.35

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ez4711\
 Data File : z94845.D
 Acq On : 26 Aug 2014 7:02 pm
 Operator : ashleyv
 Sample : ic4711-100
 Misc : op76603,ez4711
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Aug 27 11:45:00 2014
 Quant Method : C:\MSDCHEM\1\METHODS\MZ4711.M
 Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
 QLast Update : Wed Aug 27 11:44:18 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

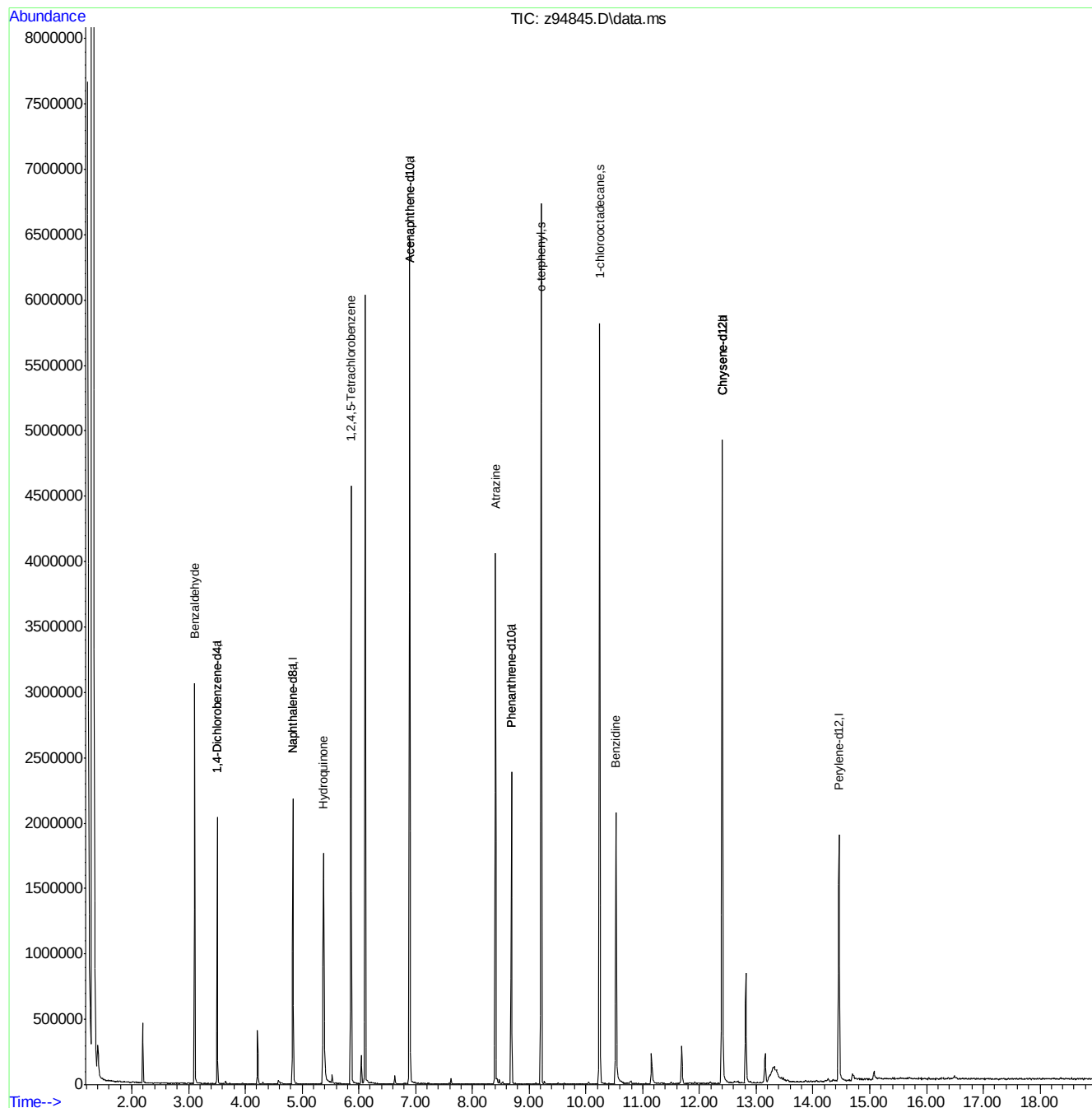
Internal Standards						
1) 1,4-Dichlorobenzene-d4	3.506	152	233521	40.00	ppb	0.00
24) Naphthalene-d8	4.836	136	836929	40.00	ppb	0.00
47) Acenaphthene-d10	6.898	164	509267	40.00	ppb	0.00
69) Phenanthrene-d10	8.688	188	884993	40.00	ppb	0.00
83) Chrysene-d12	12.406	240	987053	40.00	ppb	0.00
92) Perylene-d12	14.457	264	940345	40.00	ppb	-0.01
102) 1,4-Dichlorobenzene-d4a	3.506	152	233521	40.00	ppb	0.00
104) Phenanthrene-d10a	8.688	188	884993	40.00	ppb	0.00
107) Chrysene-d12a	12.406	240	987053	40.00	ppb	0.00
110) Acenaphthene-d10a	6.898	164	509267	40.00	ppb	0.00
112) Naphthalene-d8a	4.836	136	836929	40.00	ppb	0.00
114) Chrysene-d12b	12.406	240	987053	40.00	ppb	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	0.000	112	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
8) Phenol-d5	0.000	99	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
25) Nitrobenzene-d5	0.000	82	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
51) 2-Fluorobiphenyl	0.000	172	0d	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
73) 2,4,6-Tribromophenol	0.000	330	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
86) Terphenyl-d14	0.000	244	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
106) o-terphenyl	9.211	230	1454524	100.00	ppb	0.00
Spiked Amount	50.000		Recovery	=	200.00%	
109) 1-chlorooctadecane	10.242	57	949749	199.04	ppb	0.00
Spiked Amount	50.000		Recovery	=	398.08%	
Target Compounds						
						Qvalue
103) Benzaldehyde	3.105	105	394001	100.00	ppb	100
105) Atrazine	8.410	215	266098	100.00	ppb	100
108) Benzidine	10.531	184	982375	100.00	ppb	100
111) 1,2,4,5-Tetrachloroben...	5.867	216	843193	100.00	ppb	100
113) Hydroquinone	5.375	110	675277	100.00	ppb	100

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ez4711\
Data File : z94845.D
Acq On : 26 Aug 2014 7:02 pm
Operator : ashleyv
Sample : ic4711-100
Misc : op76603,ez4711
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Aug 27 11:45:00 2014
Quant Method : C:\MSDCHEM\1\METHODS\MZ4711.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Wed Aug 27 11:44:18 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ez4711\
 Data File : z94846.D
 Acq On : 26 Aug 2014 7:28 pm
 Operator : ashleyv
 Sample : ic4711-80
 Misc : op76603,ez4711
 ALS Vial : 16 Sample Multiplier: 1

Quant Time: Aug 27 11:46:10 2014
 Quant Method : C:\MSDCHEM\1\METHODS\MZ4711.M
 Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
 QLast Update : Wed Aug 27 11:45:20 2014
 Response via : Initial Calibration

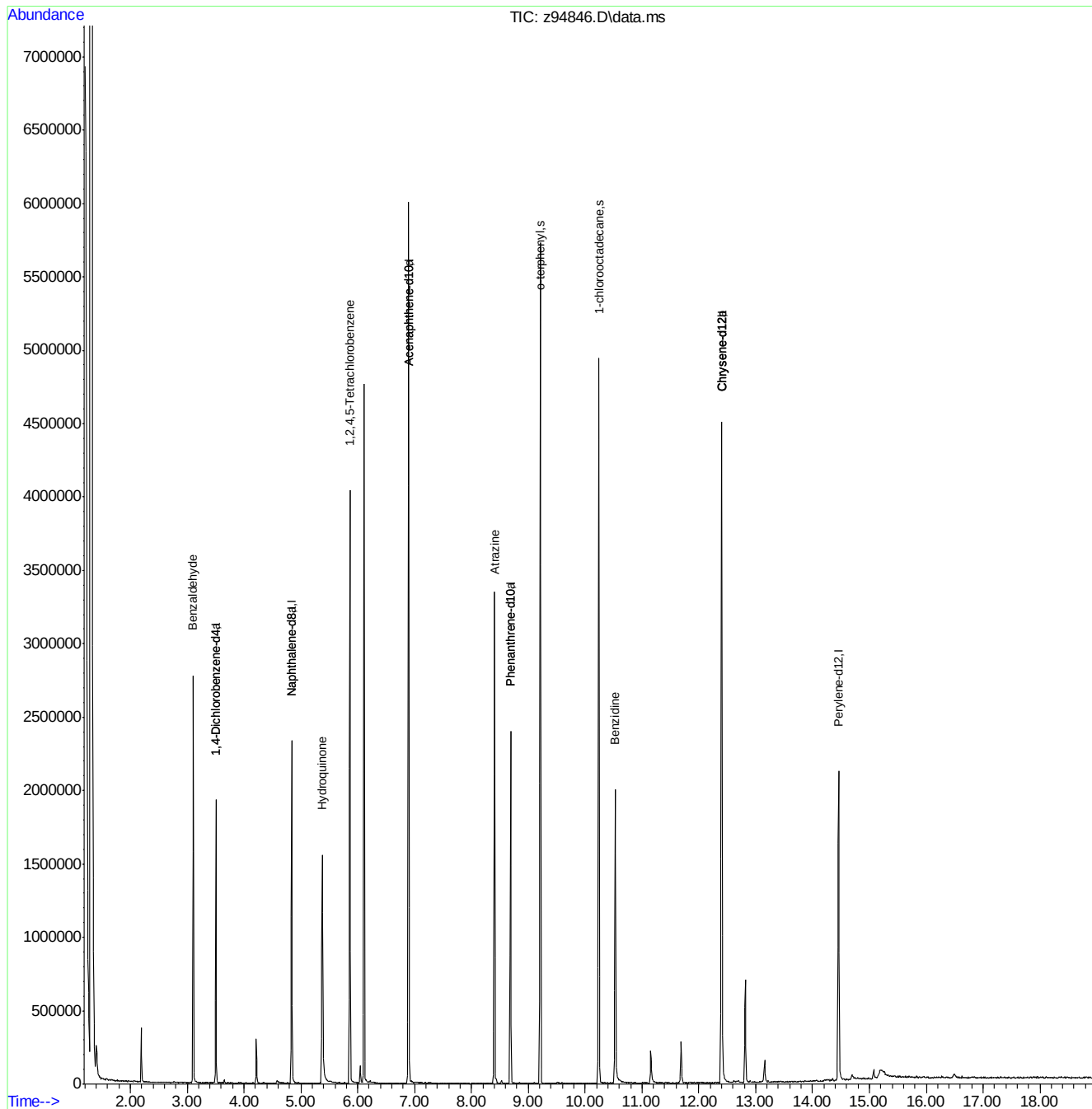
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	3.505	152	234480	40.00	ppb	0.00
24) Naphthalene-d8	4.836	136	856478	40.00	ppb	0.00
47) Acenaphthene-d10	6.898	164	527947	40.00	ppb	0.00
69) Phenanthrene-d10	8.687	188	922090	40.00	ppb	0.00
83) Chrysene-d12	12.406	240	1055028	40.00	ppb	0.00
92) Perylene-d12	14.457	264	1010873	40.00	ppb	-0.01
102) 1,4-Dichlorobenzene-d4a	3.505	152	234480	40.00	ppb	0.00
104) Phenanthrene-d10a	8.687	188	922090	40.00	ppb	0.00
107) Chrysene-d12a	12.406	240	1055028	40.00	ppb	0.00
110) Acenaphthene-d10a	6.898	164	527947	40.00	ppb	0.00
112) Naphthalene-d8a	4.836	136	856478	40.00	ppb	0.00
114) Chrysene-d12b	12.406	240	1055028	40.00	ppb	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	0.000	112	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
8) Phenol-d5	0.000	99	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
25) Nitrobenzene-d5	0.000	82	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
51) 2-Fluorobiphenyl	0.000	172	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
73) 2,4,6-Tribromophenol	0.000	330	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
86) Terphenyl-d14	0.000	244	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
106) o-terphenyl	9.211	230	1221714	80.61	ppb	0.00
Spiked Amount 50.000			Recovery	=	161.22%	
109) 1-chlorooctadecane	10.242	57	796726	78.48	ppb	0.00
Spiked Amount 50.000			Recovery	=	156.96%	
Target Compounds						
103) Benzaldehyde	3.105	105	345395	87.30	ppb	96
105) Atrazine	8.410	215	222290	80.18	ppb	93
108) Benzidine	10.530	184	884278	84.21	ppb	97
111) 1,2,4,5-Tetrachloroben...	5.861	216	691373	79.09	ppb	96
113) Hydroquinone	5.375	110	562015	81.33	ppb	97

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ez4711\
Data File : z94846.D
Acq On : 26 Aug 2014 7:28 pm
Operator : ashleyv
Sample : ic4711-80
Misc : op76603,ez4711
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Aug 27 11:46:10 2014
Quant Method : C:\MSDCHEM\1\METHODS\MZ4711.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Wed Aug 27 11:45:20 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ez4711\
 Data File : z94847.D
 Acq On : 26 Aug 2014 7:54 pm
 Operator : ashleyv
 Sample : ic4711-50
 Misc : op76603,ez4711
 ALS Vial : 17 Sample Multiplier: 1

Quant Time: Aug 27 11:46:39 2014
 Quant Method : C:\MSDCHEM\1\METHODS\MZ4711.M
 Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
 QLast Update : Wed Aug 27 11:45:20 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	3.506	152	233342	40.00	ppb	0.00
24) Naphthalene-d8	4.836	136	857062	40.00	ppb	0.00
47) Acenaphthene-d10	6.893	164	535594	40.00	ppb	0.00
69) Phenanthrene-d10	8.688	188	951792	40.00	ppb	0.00
83) Chrysene-d12	12.406	240	1095266	40.00	ppb	0.00
92) Perylene-d12	14.457	264	1048406	40.00	ppb	-0.01
102) 1,4-Dichlorobenzene-d4a	3.506	152	233342	40.00	ppb	0.00
104) Phenanthrene-d10a	8.688	188	951792	40.00	ppb	0.00
107) Chrysene-d12a	12.406	240	1095266	40.00	ppb	0.00
110) Acenaphthene-d10a	6.893	164	535594	40.00	ppb	0.00
112) Naphthalene-d8a	4.836	136	857062	40.00	ppb	0.00
114) Chrysene-d12b	12.406	240	1095266	40.00	ppb	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	0.000	112	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
8) Phenol-d5	0.000	99	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
25) Nitrobenzene-d5	0.000	82	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
51) 2-Fluorobiphenyl	0.000	172	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
73) 2,4,6-Tribromophenol	0.000	330	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
86) Terphenyl-d14	0.000	244	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
106) o-terphenyl	9.211	230	796479	50.92	ppb	0.00
Spiked Amount 50.000			Recovery	=	101.84%	
109) 1-chlorooctadecane	10.237	57	512286	48.61	ppb	0.00
Spiked Amount 50.000			Recovery	=	97.22%	
Target Compounds						
103) Benzaldehyde	3.105	105	237871	60.42	ppb	96
105) Atrazine	8.405	215	142513	49.80	ppb	94
108) Benzidine	10.531	184	632788	58.05	ppb	97
111) 1,2,4,5-Tetrachloroben...	5.862	216	439144	49.52	ppb	98
113) Hydroquinone	5.370	110	340740	49.27	ppb	96

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

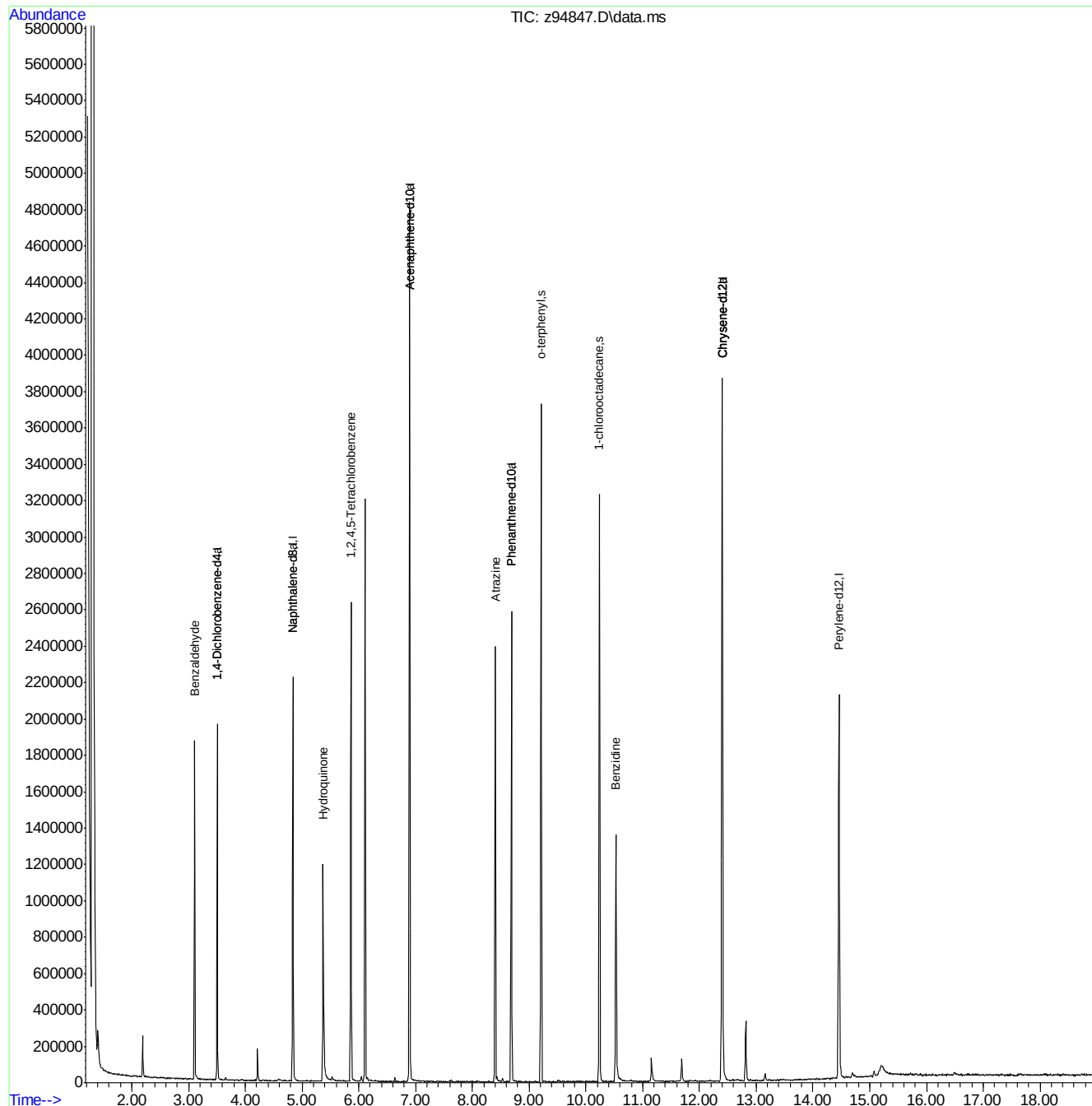
9.6.64

9

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ez4711\
Data File : z94847.D
Acq On : 26 Aug 2014 7:54 pm
Operator : ashleyv
Sample : ic4711-50
Misc : op76603,ez4711
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Aug 27 11:46:39 2014
Quant Method : C:\MSDCHEM\1\METHODS\MZ4711.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Wed Aug 27 11:45:20 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ez4711\
 Data File : z94848.D
 Acq On : 26 Aug 2014 8:20 pm
 Operator : ashleyv
 Sample : ic4711-25
 Misc : op76603,ez4711
 ALS Vial : 18 Sample Multiplier: 1

Quant Time: Aug 27 11:47:09 2014
 Quant Method : C:\MSDCHEM\1\METHODS\MZ4711.M
 Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
 QLast Update : Wed Aug 27 11:45:20 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

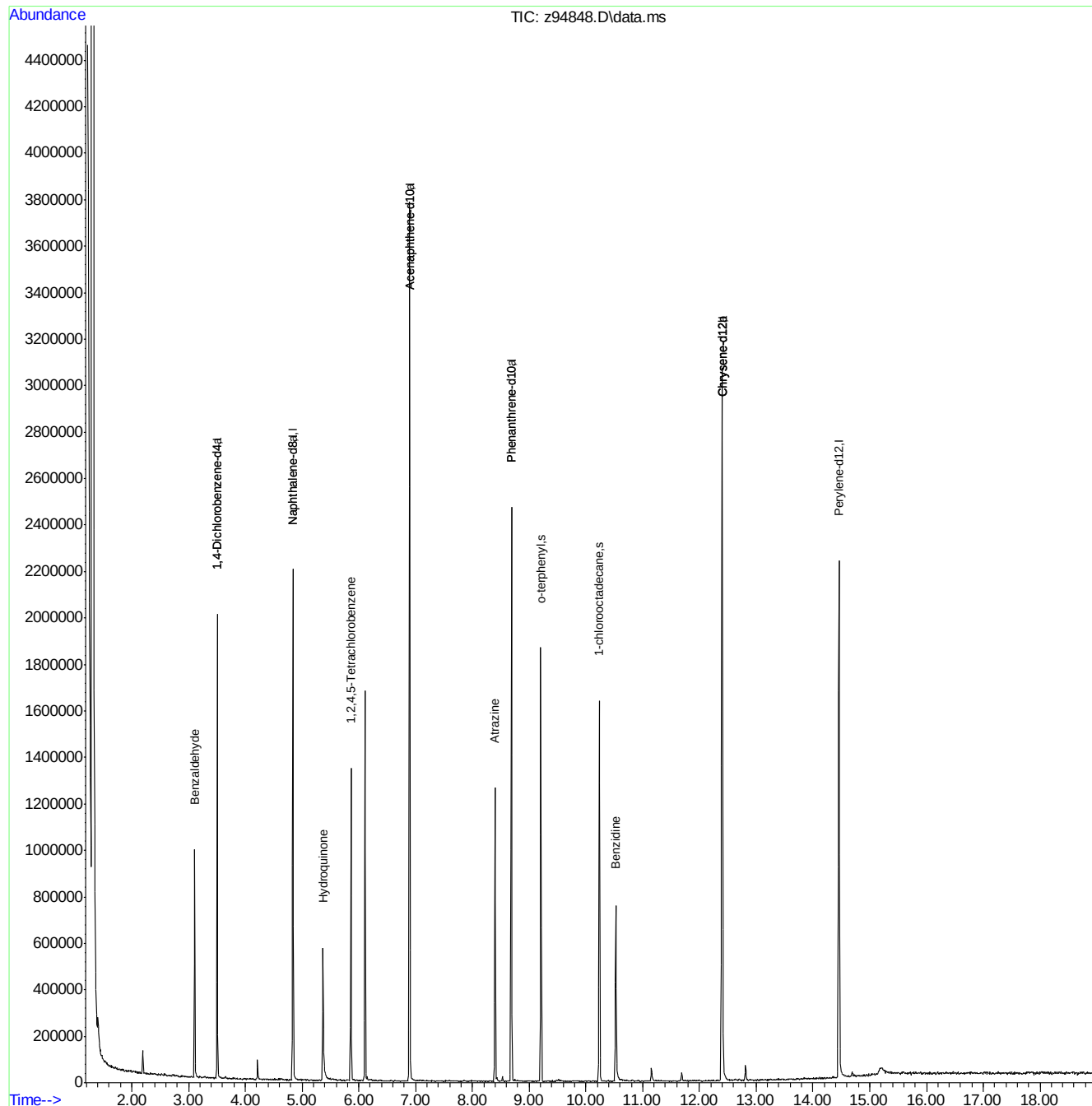
Internal Standards						
1) 1,4-Dichlorobenzene-d4	3.506	152	237936	40.00	ppb	0.00
24) Naphthalene-d8	4.836	136	838450	40.00	ppb	0.00
47) Acenaphthene-d10	6.893	164	528485	40.00	ppb	0.00
69) Phenanthrene-d10	8.688	188	948501	40.00	ppb	0.00
83) Chrysene-d12	12.406	240	1113402	40.00	ppb	0.00
92) Perylene-d12	14.457	264	1052186	40.00	ppb	-0.01
102) 1,4-Dichlorobenzene-d4a	3.506	152	237936	40.00	ppb	0.00
104) Phenanthrene-d10a	8.688	188	948501	40.00	ppb	0.00
107) Chrysene-d12a	12.406	240	1113402	40.00	ppb	0.00
110) Acenaphthene-d10a	6.893	164	528485	40.00	ppb	0.00
112) Naphthalene-d8a	4.836	136	838450	40.00	ppb	0.00
114) Chrysene-d12b	12.406	240	1113402	40.00	ppb	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	0.000	112	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
8) Phenol-d5	0.000	99	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
25) Nitrobenzene-d5	0.000	82	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
51) 2-Fluorobiphenyl	0.000	172	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
73) 2,4,6-Tribromophenol	0.000	330	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
86) Terphenyl-d14	0.000	244	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
106) o-terphenyl	9.206	230	397828	25.52	ppb	0.00
Spiked Amount	50.000		Recovery	=	51.04%	
109) 1-chlorooctadecane	10.237	57	249174	23.26	ppb	0.00
Spiked Amount	50.000		Recovery	=	46.52%	
Target Compounds						
103) Benzaldehyde	3.105	105	124622	31.04	ppb	97
105) Atrazine	8.399	215	68736	24.10	ppb	93
108) Benzidine	10.531	184	358542	32.36	ppb	97
111) 1,2,4,5-Tetrachloroben...	5.862	216	213260	24.37	ppb	99
113) Hydroquinone	5.365	110	156184	23.09	ppb	93

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ez4711\
Data File : z94848.D
Acq On : 26 Aug 2014 8:20 pm
Operator : ashleyv
Sample : ic4711-25
Misc : op76603,ez4711
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Aug 27 11:47:09 2014
Quant Method : C:\MSDCHEM\1\METHODS\MZ4711.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Wed Aug 27 11:45:20 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ez4711\
 Data File : z94849.D
 Acq On : 26 Aug 2014 8:45 pm
 Operator : ashleyv
 Sample : ic4711-10
 Misc : op76603,ez4711
 ALS Vial : 19 Sample Multiplier: 1

Quant Time: Aug 27 11:47:37 2014
 Quant Method : C:\MSDCHEM\1\METHODS\MZ4711.M
 Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
 QLast Update : Wed Aug 27 11:45:20 2014
 Response via : Initial Calibration

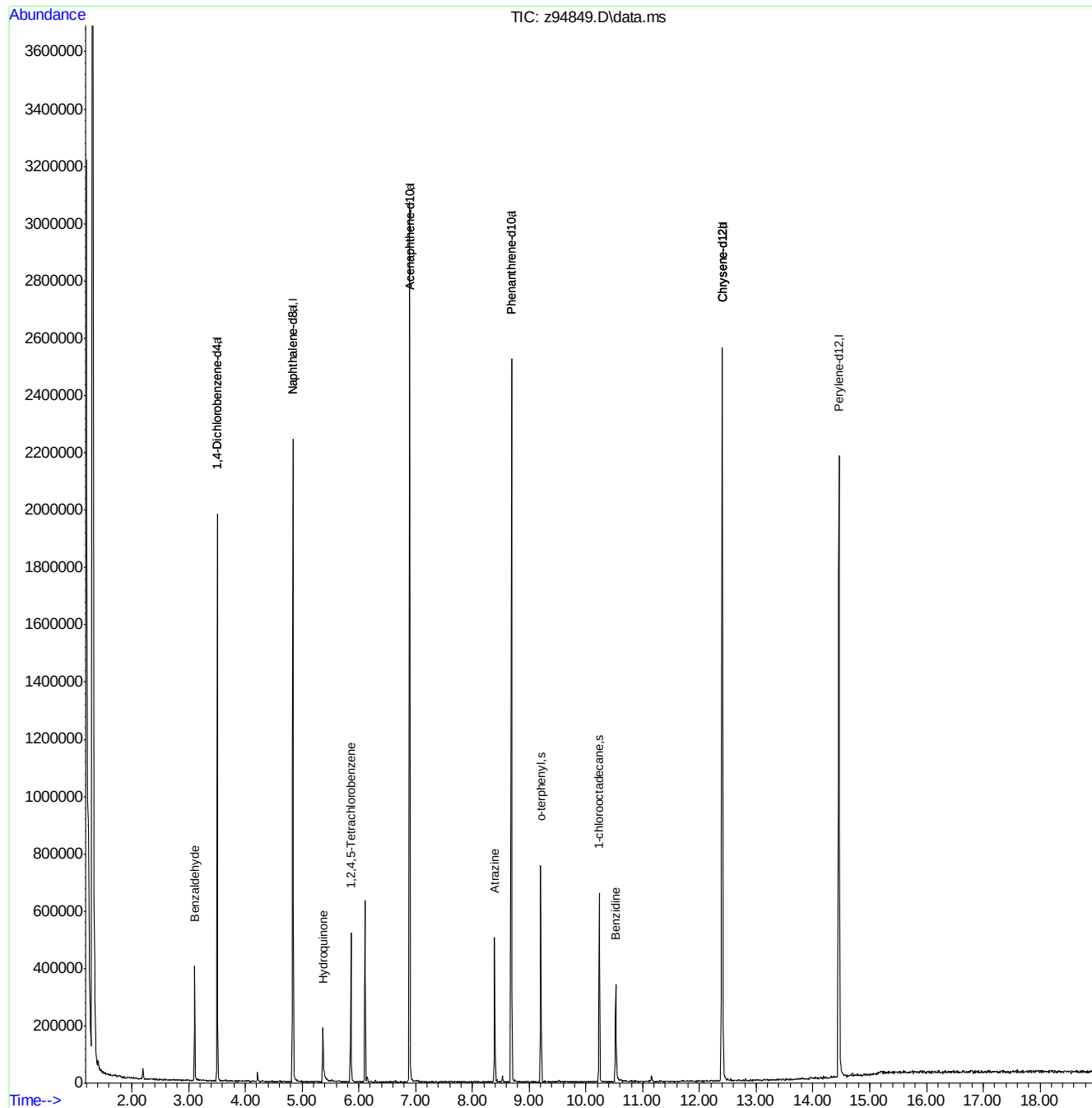
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	3.505	152	232534	40.00	ppb	0.00
24) Naphthalene-d8	4.836	136	856271	40.00	ppb	0.00
47) Acenaphthene-d10	6.892	164	533033	40.00	ppb	0.00
69) Phenanthrene-d10	8.687	188	979498	40.00	ppb	0.00
83) Chrysene-d12	12.406	240	1106078	40.00	ppb	0.00
92) Perylene-d12	14.457	264	1059807	40.00	ppb	-0.01
102) 1,4-Dichlorobenzene-d4a	3.505	152	232534	40.00	ppb	0.00
104) Phenanthrene-d10a	8.687	188	979498	40.00	ppb	0.00
107) Chrysene-d12a	12.406	240	1106078	40.00	ppb	0.00
110) Acenaphthene-d10a	6.892	164	533033	40.00	ppb	0.00
112) Naphthalene-d8a	4.836	136	856271	40.00	ppb	0.00
114) Chrysene-d12b	12.406	240	1106078	40.00	ppb	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	0.000	112	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
8) Phenol-d5	0.000	99	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
25) Nitrobenzene-d5	0.000	82	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
51) 2-Fluorobiphenyl	0.000	172	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
73) 2,4,6-Tribromophenol	0.000	330	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
86) Terphenyl-d14	0.000	244	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
106) o-terphenyl	9.206	230	160081	9.94	ppb	0.00
Spiked Amount 50.000			Recovery	=	19.88%	
109) 1-chlorooctadecane	10.237	57	100533	9.45	ppb	0.00
Spiked Amount 50.000			Recovery	=	18.90%	
Target Compounds						
103) Benzaldehyde	3.105	105	54229	13.82	ppb	97
105) Atrazine	8.394	215	27315	9.27	ppb	87
108) Benzidine	10.525	184	158712	14.42	ppb	96
111) 1,2,4,5-Tetrachloroben...	5.861	216	84434	9.57	ppb	99
113) Hydroquinone	5.365	110	59043	8.55	ppb	94

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ez4711\
Data File : z94849.D
Acq On : 26 Aug 2014 8:45 pm
Operator : ashleyv
Sample : ic4711-10
Misc : op76603,ez4711
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Aug 27 11:47:37 2014
Quant Method : C:\MSDCHEM\1\METHODS\MZ4711.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Wed Aug 27 11:45:20 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ez4711\
 Data File : z94850.D
 Acq On : 26 Aug 2014 9:12 pm
 Operator : ashleyv
 Sample : ic4711-5
 Misc : op76603,ez4711
 ALS Vial : 20 Sample Multiplier: 1

Quant Time: Aug 27 11:48:29 2014
 Quant Method : C:\MSDCHEM\1\METHODS\MZ4711.M
 Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
 QLast Update : Wed Aug 27 11:45:20 2014
 Response via : Initial Calibration

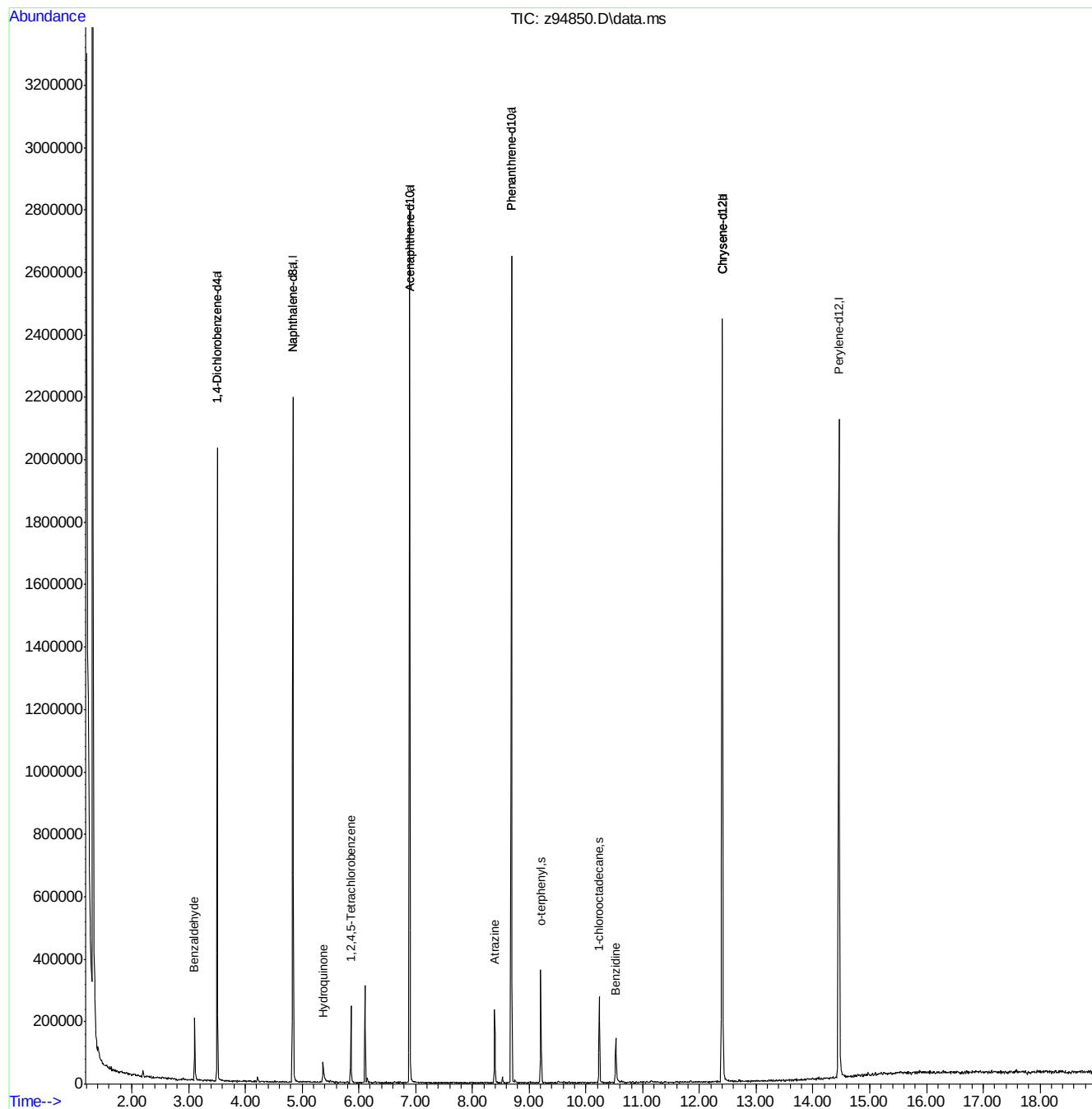
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	3.505	152	234918	40.00	ppb	0.00
24) Naphthalene-d8	4.836	136	874172	40.00	ppb	0.00
47) Acenaphthene-d10	6.892	164	525350	40.00	ppb	0.00
69) Phenanthrene-d10	8.687	188	977207	40.00	ppb	0.00
83) Chrysene-d12	12.406	240	1092543	40.00	ppb	0.00
92) Perylene-d12	14.457	264	1041458	40.00	ppb	-0.01
102) 1,4-Dichlorobenzene-d4a	3.505	152	234918	40.00	ppb	0.00
104) Phenanthrene-d10a	8.687	188	977207	40.00	ppb	0.00
107) Chrysene-d12a	12.406	240	1092543	40.00	ppb	0.00
110) Acenaphthene-d10a	6.892	164	525350	40.00	ppb	0.00
112) Naphthalene-d8a	4.836	136	874172	40.00	ppb	0.00
114) Chrysene-d12b	12.406	240	1092543	40.00	ppb	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	0.000	112	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
8) Phenol-d5	0.000	99	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
25) Nitrobenzene-d5	0.000	82	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
51) 2-Fluorobiphenyl	0.000	172	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
73) 2,4,6-Tribromophenol	0.000	330	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
86) Terphenyl-d14	0.000	244	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
106) o-terphenyl	9.206	230	75072	4.67	ppb	0.00
Spiked Amount 50.000			Recovery	=	9.34%	
109) 1-chlorooctadecane	10.237	57	43688	4.16	ppb	0.00
Spiked Amount 50.000			Recovery	=	8.32%	
Target Compounds						
						Qvalue
103) Benzaldehyde	3.105	105	27124	6.84	ppb	89
105) Atrazine	8.394	215	12488	4.25	ppb	92
108) Benzidine	10.531	184	75045	6.90	ppb	95
111) 1,2,4,5-Tetrachloroben...	5.861	216	40679	4.68	ppb	93
113) Hydroquinone	5.370	110	24212	3.43	ppb	92

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ez4711\
Data File : z94850.D
Acq On : 26 Aug 2014 9:12 pm
Operator : ashleyv
Sample : ic4711-5
Misc : op76603,ez4711
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Aug 27 11:48:29 2014
Quant Method : C:\MSDCHEM\1\METHODS\MZ4711.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Wed Aug 27 11:45:20 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ez4711\
 Data File : z94851.D
 Acq On : 26 Aug 2014 9:38 pm
 Operator : ashleyv
 Sample : ic4711-2
 Misc : op76603,ez4711
 ALS Vial : 21 Sample Multiplier: 1

Quant Time: Aug 27 11:49:27 2014
 Quant Method : C:\MSDCHEM\1\METHODS\MZ4711.M
 Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
 QLast Update : Wed Aug 27 11:45:20 2014
 Response via : Initial Calibration

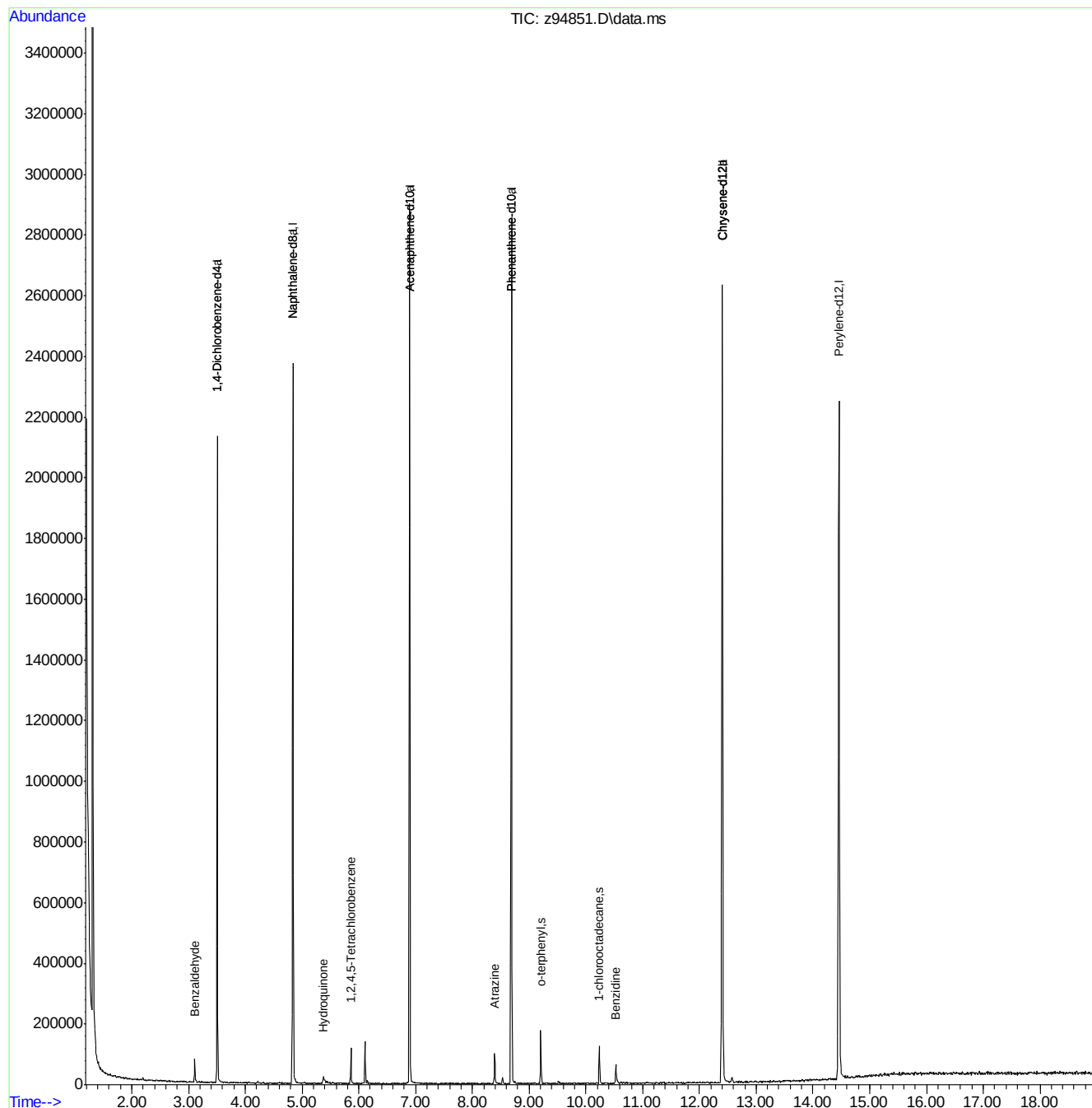
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	3.506	152	249626	40.00	ppb	0.00
24) Naphthalene-d8	4.836	136	906945	40.00	ppb	0.00
47) Acenaphthene-d10	6.893	164	561020	40.00	ppb	0.00
69) Phenanthrene-d10	8.688	188	1042273	40.00	ppb	0.00
83) Chrysene-d12	12.406	240	1169273	40.00	ppb	0.00
92) Perylene-d12	14.457	264	1120881	40.00	ppb	-0.01
102) 1,4-Dichlorobenzene-d4a	3.506	152	249626	40.00	ppb	0.00
104) Phenanthrene-d10a	8.688	188	1042273	40.00	ppb	0.00
107) Chrysene-d12a	12.406	240	1169273	40.00	ppb	0.00
110) Acenaphthene-d10a	6.893	164	561020	40.00	ppb	0.00
112) Naphthalene-d8a	4.836	136	906945	40.00	ppb	0.00
114) Chrysene-d12b	12.406	240	1169273	40.00	ppb	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	0.000	112	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
8) Phenol-d5	0.000	99	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
25) Nitrobenzene-d5	0.000	82	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
51) 2-Fluorobiphenyl	0.000	172	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
73) 2,4,6-Tribromophenol	0.000	330	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
86) Terphenyl-d14	0.000	244	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
106) o-terphenyl	9.206	230	35517	2.07	ppb	0.00
Spiked Amount 50.000			Recovery	=	4.14%	
109) 1-chlorooctadecane	10.237	57	20911	1.86	ppb	0.00
Spiked Amount 50.000			Recovery	=	3.72%	
Target Compounds						
103) Benzaldehyde	3.110	105	11466	2.72	ppb	90
105) Atrazine	8.394	215	4518	1.44	ppb	# 73
108) Benzidine	10.531	184	31909	2.74	ppb	92
111) 1,2,4,5-Tetrachloroben...	5.862	216	20019	2.16	ppb	98
113) Hydroquinone	5.370	110	15425m	2.11	ppb	

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ez4711\
Data File : z94851.D
Acq On : 26 Aug 2014 9:38 pm
Operator : ashleyv
Sample : ic4711-2
Misc : op76603,ez4711
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Aug 27 11:49:27 2014
Quant Method : C:\MSDCHEM\1\METHODS\MZ4711.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Wed Aug 27 11:45:20 2014
Response via : Initial Calibration



Manual Integration Approval Summary

Sample Number:

EZ4711-IC4711

Method:

SW846 8270D

Lab FileID:

Z94851.D

Analyst approved:

08/29/14 17:28 Ashley Royal

Injection Time:

08/26/14 21:38

Supervisor approved:

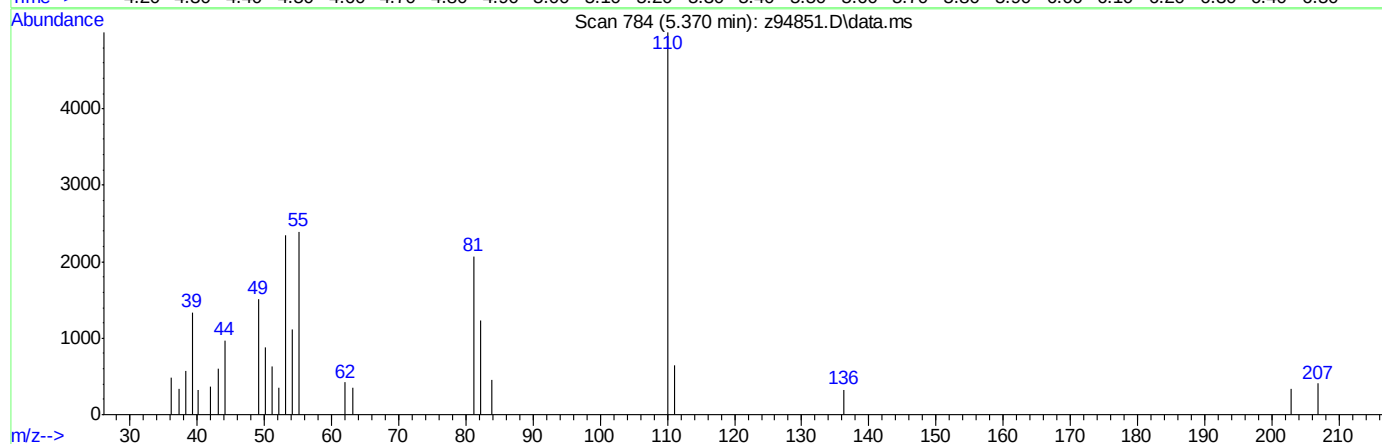
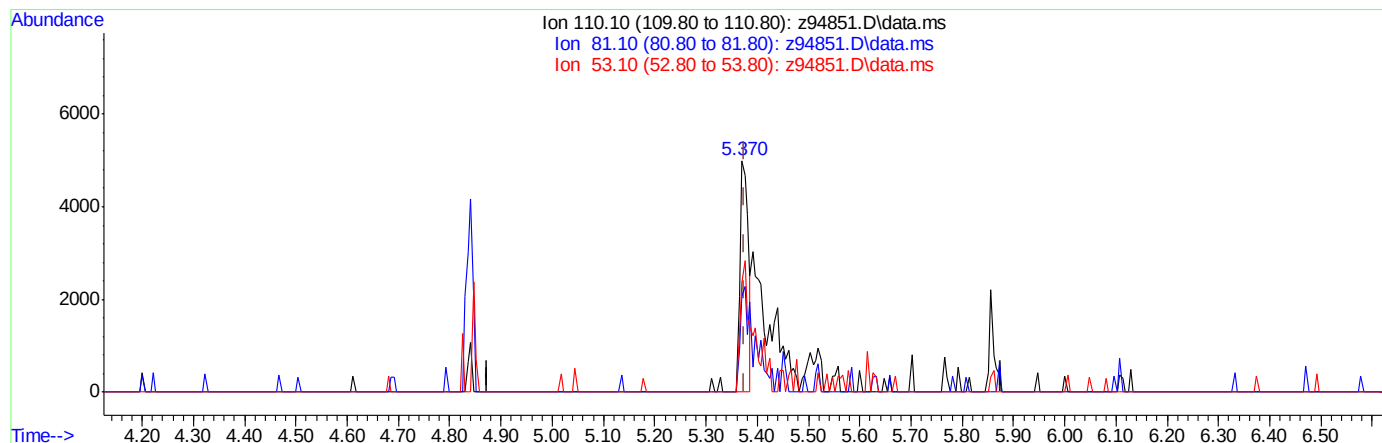
08/29/14 18:27 Nina Pandya

Parameter	CAS	Sig#	R.T. (min.)	Reason
Hydroquinone	123-31-9		5.37	Poor instrument integration

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\ez4711\
Data File : z94851.D
Acq On : 26 Aug 2014 9:38 pm
Operator : ashleyv
Sample : ic1412-2
Misc : op76603,ez4712
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Aug 27 11:49:08 2014
Quant Method : C:\MSDCHEM\1\METHODS\MZ4711.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Wed Aug 27 11:45:20 2014
Response via : Initial Calibration



(113) Hydroquinone

5.370min (-0.005) 0.79ppb

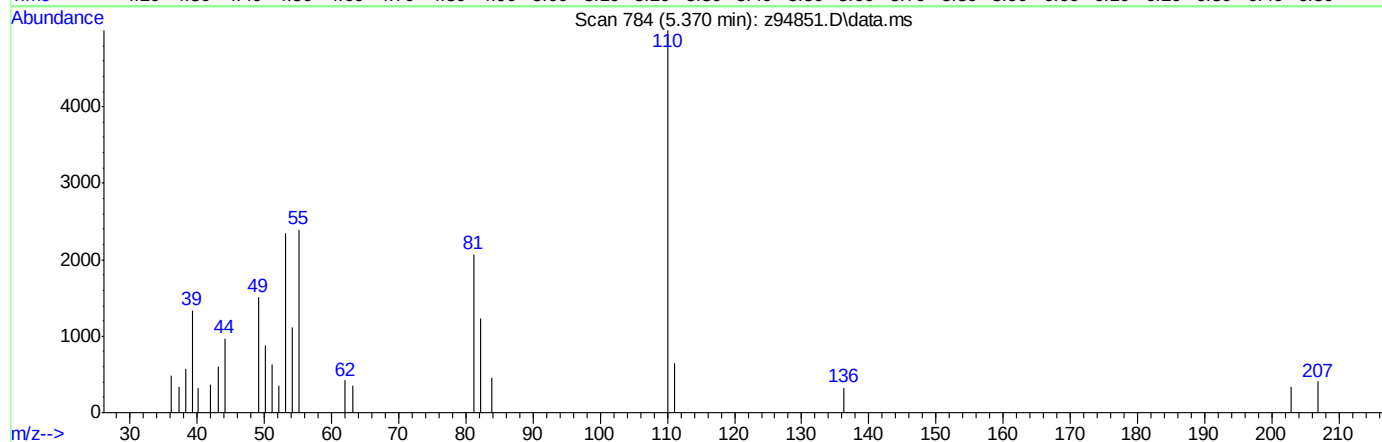
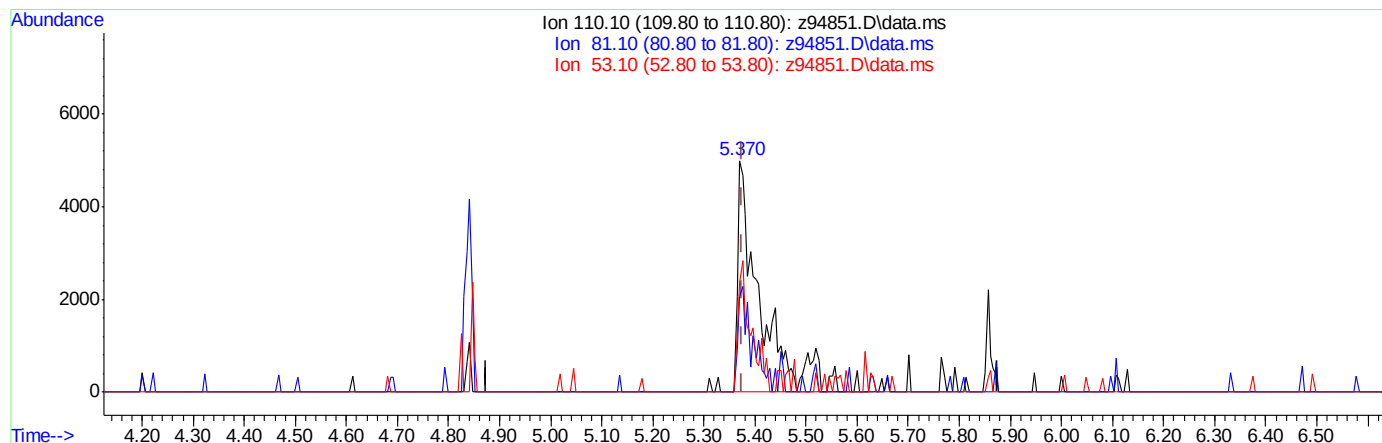
response 5798

Ion	Exp%	Act%
110.10	100	100
81.10	37.40	29.19
53.10	44.60	43.84
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\ez4711\
Data File : z94851.D
Acq On : 26 Aug 2014 9:38 pm
Operator : ashleyv
Sample : ic1412-2
Misc : op76603,ez4712
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Aug 27 11:49:08 2014
Quant Method : C:\MSDCHEM\1\METHODS\MZ4711.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Wed Aug 27 11:45:20 2014
Response via : Initial Calibration



(113) Hydroquinone

5.370min (-0.005) 2.11ppb m

response 15425

Ion	Exp%	Act%
110.10	100	100
81.10	37.40	41.41
53.10	44.60	46.99
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ez4711\
 Data File : z94852.D
 Acq On : 26 Aug 2014 10:04 pm
 Operator : ashleyv
 Sample : ic4711-1
 Misc : op76603,ez4711
 ALS Vial : 22 Sample Multiplier: 1

Quant Time: Aug 27 11:50:36 2014
 Quant Method : C:\MSDCHEM\1\METHODS\MZ4711.M
 Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
 QLast Update : Wed Aug 27 11:45:20 2014
 Response via : Initial Calibration

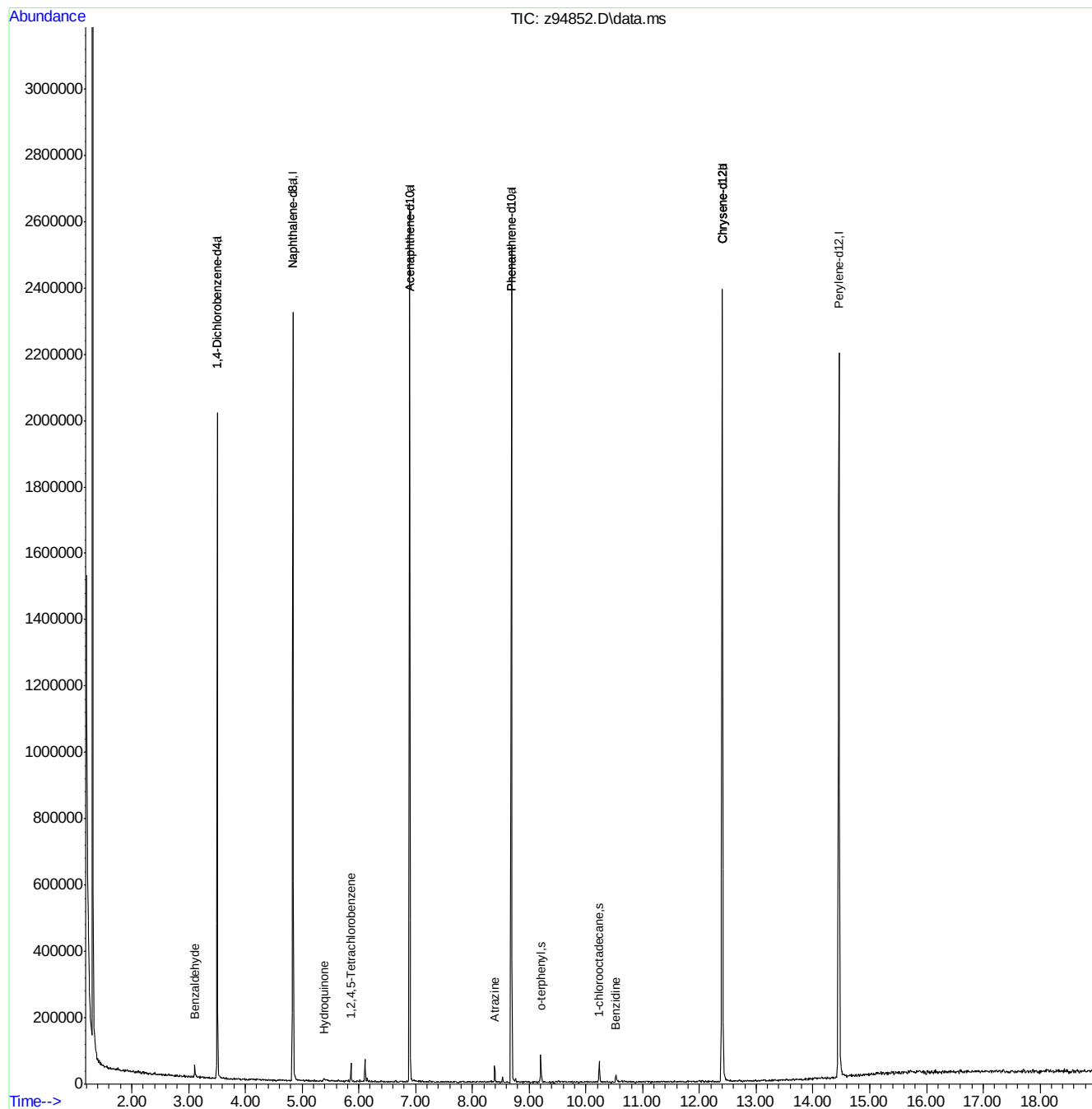
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	3.506	152	242737	40.00	ppb	0.00
24) Naphthalene-d8	4.836	136	877952	40.00	ppb	0.00
47) Acenaphthene-d10	6.892	164	535158	40.00	ppb	0.00
69) Phenanthrene-d10	8.687	188	990013	40.00	ppb	0.00
83) Chrysene-d12	12.406	240	1120427	40.00	ppb	0.00
92) Perylene-d12	14.457	264	1097934	40.00	ppb	-0.01
102) 1,4-Dichlorobenzene-d4a	3.506	152	242737	40.00	ppb	0.00
104) Phenanthrene-d10a	8.687	188	990013	40.00	ppb	0.00
107) Chrysene-d12a	12.406	240	1120427	40.00	ppb	0.00
110) Acenaphthene-d10a	6.892	164	535158	40.00	ppb	0.00
112) Naphthalene-d8a	4.836	136	877952	40.00	ppb	0.00
114) Chrysene-d12b	12.406	240	1120427	40.00	ppb	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	0.000	112	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
8) Phenol-d5	0.000	99	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
25) Nitrobenzene-d5	0.000	82	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
51) 2-Fluorobiphenyl	0.000	172	0d	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
73) 2,4,6-Tribromophenol	0.000	330	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
86) Terphenyl-d14	0.000	244	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
106) o-terphenyl	9.206	230	17187	1.06	ppb	0.00
Spiked Amount	50.000		Recovery	=	2.12%	
109) 1-chlorooctadecane	10.237	57	11496	1.07	ppb	0.00
Spiked Amount	50.000		Recovery	=	2.14%	
Target Compounds						
103) Benzaldehyde	3.110	105	5629	1.37	ppb	Qvalue 92
105) Atrazine	8.394	215	2947	0.99	ppb	# 69
108) Benzidine	10.531	184	12978	1.16	ppb	68
111) 1,2,4,5-Tetrachloroben...	5.861	216	9595	1.08	ppb	91
113) Hydroquinone	5.386	110	6904m	0.97	ppb	

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ez4711\
Data File : z94852.D
Acq On : 26 Aug 2014 10:04 pm
Operator : ashleyv
Sample : ic4711-1
Misc : op76603,ez4711
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Aug 27 11:50:36 2014
Quant Method : C:\MSDCHEM\1\METHODS\MZ4711.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Wed Aug 27 11:45:20 2014
Response via : Initial Calibration



Manual Integration Approval Summary

Sample Number: EZ4711-IC4711

Method: SW846 8270D

Lab FileID: Z94852.D

Analyst approved: 08/29/14 17:28 Ashley Royal

Injection Time: 08/26/14 22:04

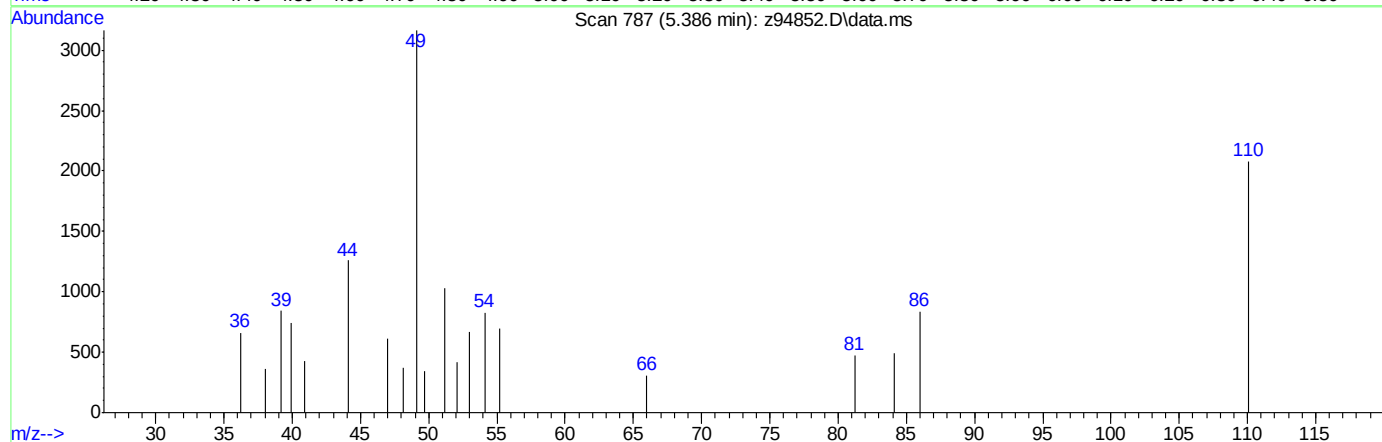
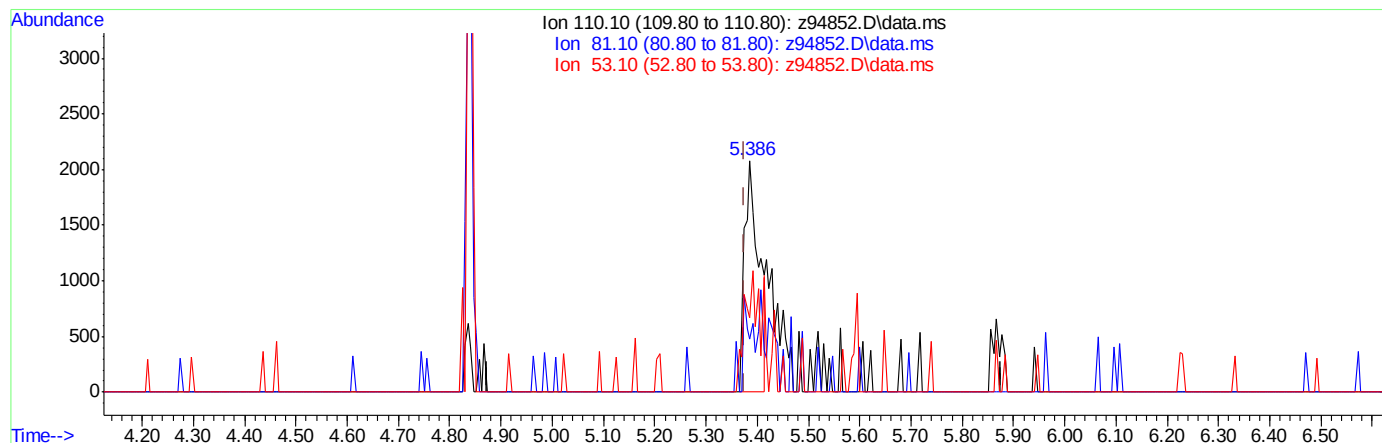
Supervisor approved: 08/29/14 18:27 Nina Pandya

Parameter	CAS	Sig#	R.T. (min.)	Reason
Hydroquinone	123-31-9		5.39	Poor instrument integration

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\ez4711\
Data File : z94852.D
Acq On : 26 Aug 2014 10:04 pm
Operator : ashleyv
Sample : ic1412-1
Misc : op76603,ez4712
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Aug 27 11:50:06 2014
Quant Method : C:\MSDCHEM\1\METHODS\MZ4711.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Wed Aug 27 11:45:20 2014
Response via : Initial Calibration



(113) Hydroquinone

5.386min (+0.011) 0.55ppb

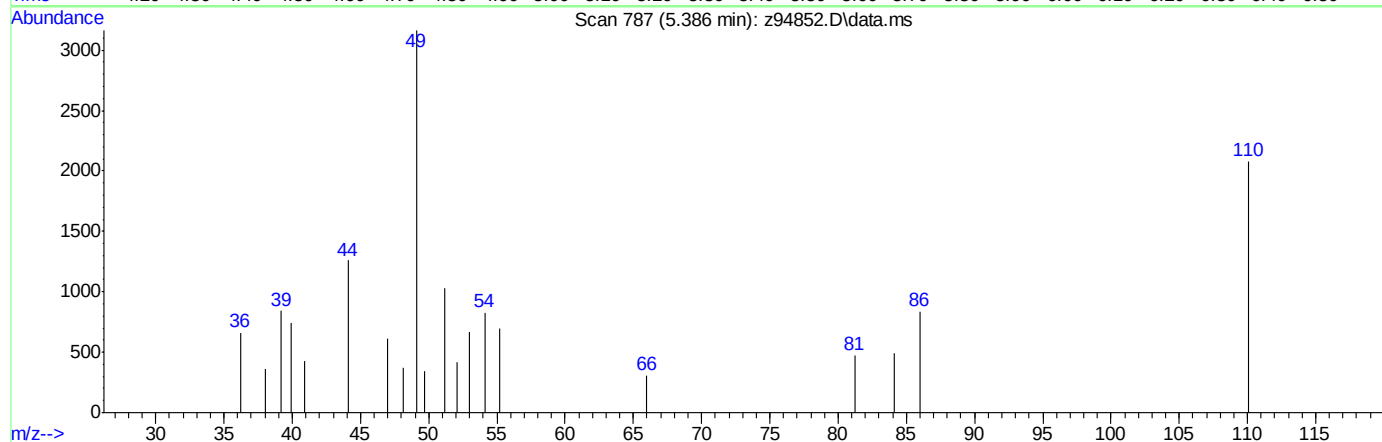
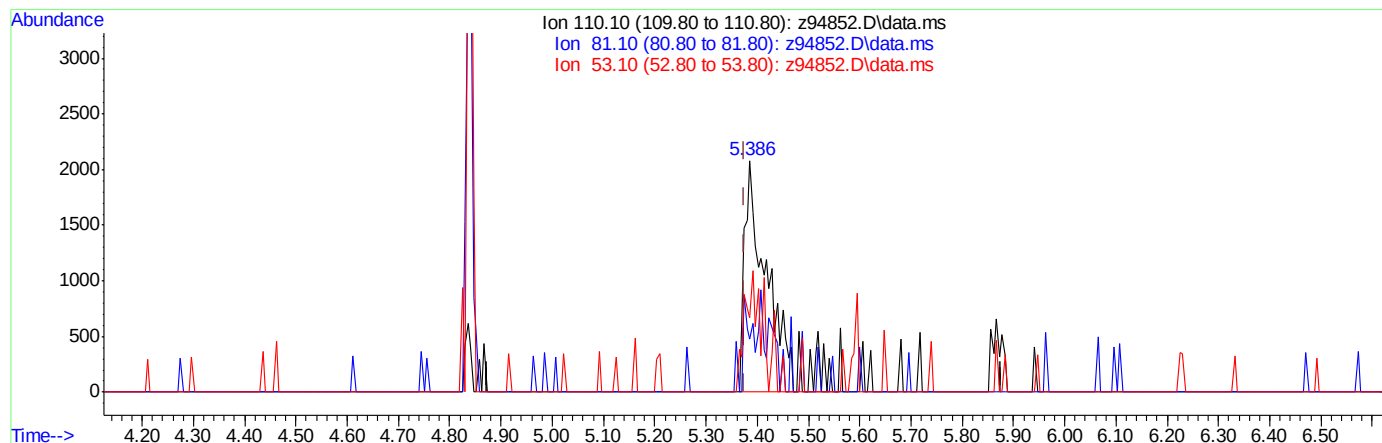
response 3863

Ion	Exp%	Act%
110.10	100	100
81.10	37.40	18.40
53.10	44.60	0.00#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\ez4711\
Data File : z94852.D
Acq On : 26 Aug 2014 10:04 pm
Operator : ashleyv
Sample : ic1412-1
Misc : op76603,ez4712
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Aug 27 11:50:06 2014
Quant Method : C:\MSDCHEM\1\METHODS\MZ4711.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Wed Aug 27 11:45:20 2014
Response via : Initial Calibration



(113) Hydroquinone

5.386min (+0.011) 0.97ppb m

response 6904

Ion	Exp%	Act%
110.10	100	100
81.10	37.40	22.86
53.10	44.60	32.18
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ez4711\
 Data File : z94854.D
 Acq On : 26 Aug 2014 10:46 pm
 Operator : ashleyv
 Sample : icv1411-50
 Misc : op76603,ez4712
 ALS Vial : 23 Sample Multiplier: 1

Quant Time: Aug 27 12:59:29 2014
 Quant Method : C:\MSDCHEM\1\METHODS\MZ4711.M
 Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
 QLast Update : Wed Aug 27 11:20:30 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	3.505	152	308255	40.00	ppb	0.00
24) Naphthalene-d8	4.836	136	1120638	40.00	ppb	0.00
47) Acenaphthene-d10	6.892	164	660005	40.00	ppb	0.00
69) Phenanthrene-d10	8.687	188	1156057	40.00	ppb	0.00
83) Chrysene-d12	12.406	240	1230929	40.00	ppb	0.00
92) Perylene-d12	14.457	264	1083415	40.00	ppb	-0.01
102) 1,4-Dichlorobenzene-d4a	3.505	152	308255	40.00	ppb	0.00
104) Phenanthrene-d10a	8.687	188	1156057	40.00	ppb	0.00
107) Chrysene-d12a	12.406	240	1230929	40.00	ppb	0.00
110) Acenaphthene-d10a	6.892	164	660005	40.00	ppb	0.00
112) Naphthalene-d8a	4.836	136	1120638	40.00	ppb	0.00
114) Chrysene-d12b	12.406	240	1230929	40.00	ppb	0.00

System Monitoring Compounds

5) 2-Fluorophenol	0.000	112	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
8) Phenol-d5	0.000	99	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
25) Nitrobenzene-d5	0.000	82	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
51) 2-Fluorobiphenyl	0.000	172	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
73) 2,4,6-Tribromophenol	0.000	330	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
86) Terphenyl-d14	0.000	244	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
106) o-terphenyl	0.000	230	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
109) 1-chlorooctadecane	0.000	57	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	

Target Compounds

						Qvalue
9) Phenol	3.180	94	607355	40.87	ppb	95
12) 2-Chlorophenol	3.308	128	549648	45.41	ppb	94
19) 2-Methylphenol	3.757	108	465511	49.33	ppb	98
21) 3&4-Methylphenol	3.917	108	481803	47.45	ppb	96
29) 2-Nitrophenol	4.424	139	289381	45.29	ppb	# 74
30) 2,4-Dimethylphenol	4.488	107	589246	53.39	ppb	98
31) Benzoic Acid	4.654	105	404289	51.81	ppb	# 100
33) 2,4-Dichlorophenol	4.697	162	477848	46.42	ppb	97
34) 2,6-Dichlorophenol	4.943	162	476429	47.00	ppb	98
43) 4-Chloro-3-methylphenol	5.530	107	479567	43.29	ppb	97
49) 2,4,6-Trichlorophenol	6.011	196	390234	47.20	ppb	97
50) 2,4,5-Trichlorophenol	6.059	196	398381	48.65	ppb	98
60) 2,4-Dinitrophenol	7.015	184	127463	40.18	ppb	91
61) 4-Nitrophenol	7.133	109	180650	46.19	ppb	# 12
64) 2,3,4,6-Tetrachlorophenol	7.309	232	321337	41.92	ppb	96
70) 4,6-Dinitro-2-methylph...	7.656	198	196599	45.49	ppb	92
76) Pentachlorophenol	8.474	266	250189	51.32	ppb	97

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ez4711\
Data File : z94854.D
Acq On : 26 Aug 2014 10:46 pm
Operator : ashleyv
Sample : icv1411-50
Misc : op76603,ez4712
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Aug 27 12:59:29 2014
Quant Method : C:\MSDCHEM\1\METHODS\MZ4711.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Wed Aug 27 11:20:30 2014
Response via : Initial Calibration

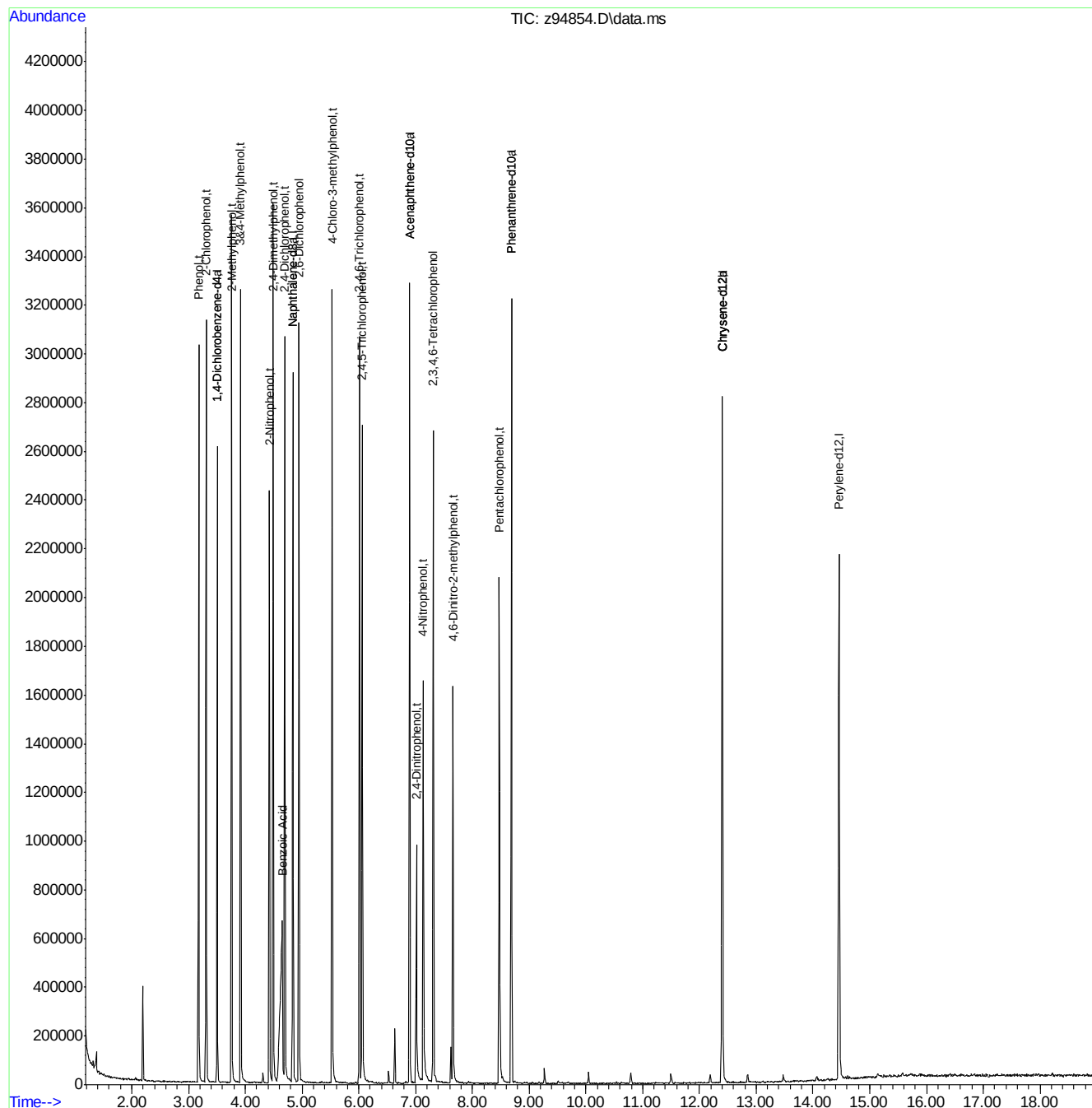
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ez4711\
Data File : z94854.D
Acq On : 26 Aug 2014 10:46 pm
Operator : ashleyv
Sample : icv1411-50
Misc : op76603,ez4712
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Aug 27 12:59:29 2014
Quant Method : C:\MSDCHEM\1\METHODS\MZ4711.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Wed Aug 27 11:20:30 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ez4711\
 Data File : z94855.D
 Acq On : 26 Aug 2014 11:12 pm
 Operator : ashleyv
 Sample : icv4711-50
 Misc : op76603,ez4712
 ALS Vial : 24 Sample Multiplier: 1

Quant Time: Aug 29 18:20:13 2014
 Quant Method : C:\msdchem\1\METHODS\MZ4711.M
 Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
 QLast Update : Wed Aug 27 15:32:48 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	3.506	152	310366	40.00	ppb	0.00
24) Naphthalene-d8	4.841	136	1108872	40.00	ppb	0.00
47) Acenaphthene-d10	6.893	164	658801	40.00	ppb	0.00
69) Phenanthrene-d10	8.688	188	1129422	40.00	ppb	0.00
83) Chrysene-d12	12.411	240	1192548	40.00	ppb	0.00
92) Perylene-d12	14.463	264	1030169	40.00	ppb	0.00
102) 1,4-Dichlorobenzene-d4a	3.506	152	310366	40.00	ppb	0.00
104) Phenanthrene-d10a	8.688	188	1129422	40.00	ppb	0.00
107) Chrysene-d12a	12.411	240	1192548	40.00	ppb	0.00
110) Acenaphthene-d10a	6.893	164	658801	40.00	ppb	0.00
112) Naphthalene-d8a	4.841	136	1108872	40.00	ppb	0.00
114) Chrysene-d12b	12.411	240	1192548	40.00	ppb	0.00

System Monitoring Compounds

5) 2-Fluorophenol	0.000	112	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
8) Phenol-d5	0.000	99	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
25) Nitrobenzene-d5	0.000	82	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
51) 2-Fluorobiphenyl	0.000	172	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
73) 2,4,6-Tribromophenol	0.000	330	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
86) Terphenyl-d14	0.000	244	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
106) o-terphenyl	0.000	230	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
109) 1-chlorooctadecane	0.000	57	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	

Target Compounds

						Qvalue
4) N-Nitrosodimethylamine	1.647	74	255100	46.38	ppb	89
11) bis(2-Chloroethyl)ether	3.249	93	467763	47.76	ppb	97
14) 1,3-Dichlorobenzene	3.452	146	638909	44.51	ppb	96
15) 1,4-Dichlorobenzene	3.522	146	633367	44.17	ppb	98
17) 1,2-Dichlorobenzene	3.666	146	597517	44.96	ppb	97
20) 2,2'-oxybis(1-Chloropr...	3.773	121	167226	44.68	ppb	96
22) n-Nitroso-di-n-propyla...	3.906	70	377773	43.77	ppb	99
23) Hexachloroethane	4.008	201	263913	44.84	ppb	96
26) Nitrobenzene	4.083	77	577251	44.84	ppb	99
28) Isophorone	4.339	82	935754	45.22	ppb	98
32) bis(2-Chloroethoxy)met...	4.590	93	550465	47.53	ppb	95
36) 1,2,4-Trichlorobenzene	4.782	180	538787	46.77	ppb	91
38) Naphthalene	4.863	128	1491187	44.04	ppb	99
42) Hexachlorobutadiene	5.012	225	391501	46.19	ppb	95
52) 2-Chloronaphthalene	6.235	162	992134	45.30	ppb	98
55) Dimethylphthalate	6.615	163	1125457	44.56	ppb	100
56) Acenaphthylene	6.722	152	1257365	36.82	ppb	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ez4711\
 Data File : z94855.D
 Acq On : 26 Aug 2014 11:12 pm
 Operator : ashleyv
 Sample : icv4711-50
 Misc : op76603,ez4712
 ALS Vial : 24 Sample Multiplier: 1

Quant Time: Aug 29 18:20:13 2014
 Quant Method : C:\msdchem\1\METHODS\MZ4711.M
 Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
 QLast Update : Wed Aug 27 15:32:48 2014
 Response via : Initial Calibration

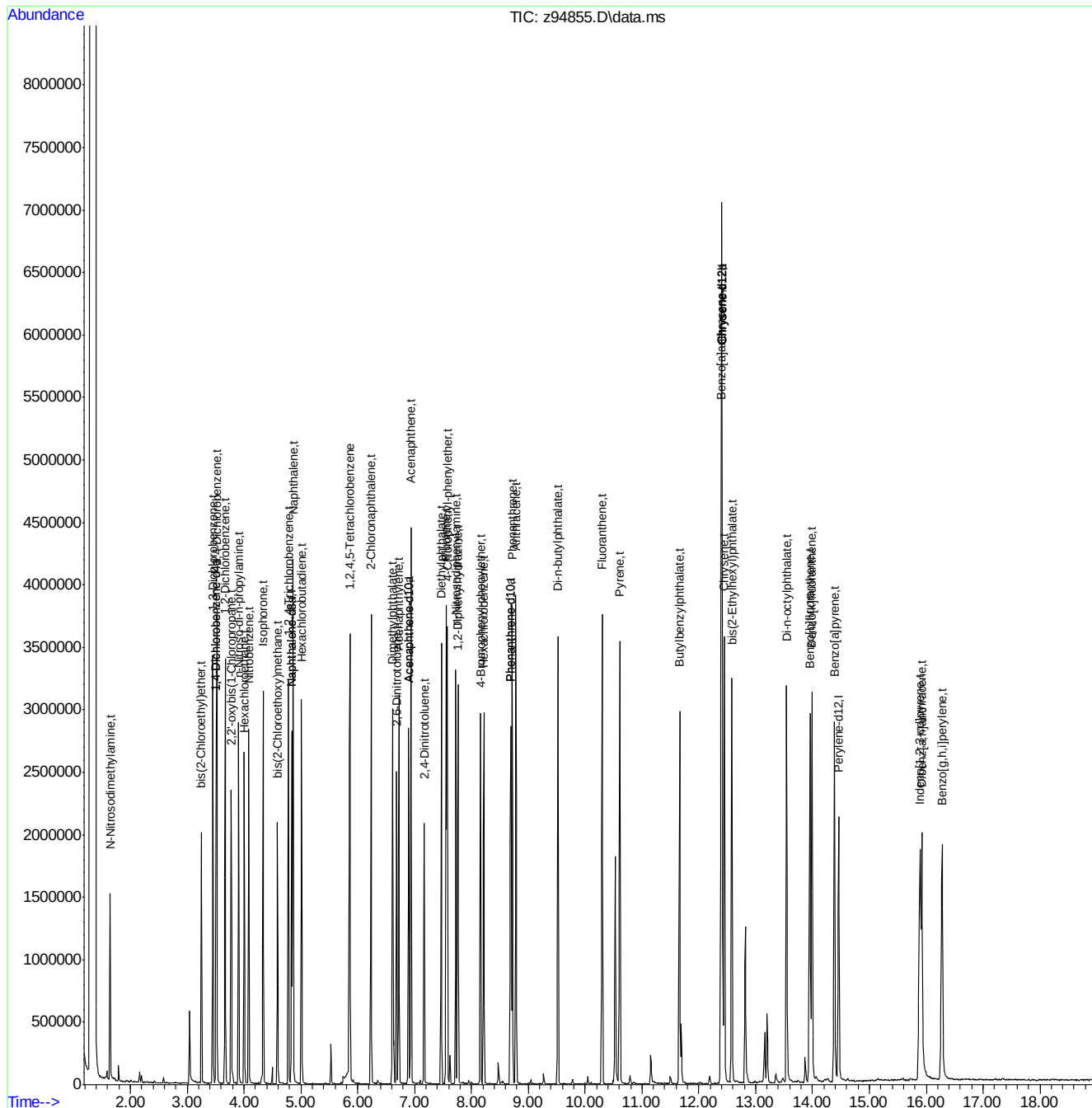
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
57) 2,6-Dinitrotoluene	6.684	165	237382	41.70	ppb	96
59) Acenaphthene	6.935	153	970495	45.40	ppb	98
63) 2,4-Dinitrotoluene	7.170	165	324812	41.45	ppb	80
65) Diethylphthalate	7.470	149	1140931	44.13	ppb	99
66) Fluorene	7.555	166	1086385	43.93	ppb	99
67) 4-Chlorophenyl-phenyle...	7.576	204	576308	44.79	ppb	96
71) n-Nitrosodiphenylamine	7.726	169	759433	44.58	ppb	96
72) 1,2-Diphenylhydrazine	7.763	77	1071781	47.30	ppb	98
74) 4-Bromophenyl-phenylether	8.164	248	364417	46.42	ppb	96
75) Hexachlorobenzene	8.217	284	406446	43.74	ppb	97
77) Phenanthrene	8.720	178	1535159	43.89	ppb	100
78) Anthracene	8.784	178	1548621	43.85	ppb	100
80) Di-n-butylphthalate	9.521	149	1857130	45.51	ppb	100
81) Fluoranthene	10.301	202	1779767	43.38	ppb	99
84) Pyrene	10.611	202	1800815	45.65	ppb	99
87) Butylbenzylphthalate	11.663	149	789088	47.62	ppb	97
88) Benzo[a]anthracene	12.395	228	1725305	43.26	ppb	100
90) Chrysene	12.449	228	1701096	45.98	ppb	99
91) bis(2-Ethylhexyl)phtha...	12.582	149	1075757	47.26	ppb	97
93) Di-n-octylphthalate	13.544	149	1806944	47.87	ppb	99
94) Benzo[b]fluoranthene	13.955	252	1606004	41.58	ppb	99
95) Benzo[k]fluoranthene	13.992	252	1661809	44.79	ppb	100
96) Benzo[a]pyrene	14.388	252	1507830	44.21	ppb	97
97) Indeno[1,2,3-cd]pyrene	15.889	276	1404058	41.15	ppb	99
99) Dibenz[a,h]anthracene	15.921	278	1478457	44.11	ppb	99
101) Benzo[g,h,i]perylene	16.284	276	1521327	44.82	ppb	97
111) 1,2,4,5-Tetrachloroben...	5.862	216	571898	52.39	ppb	98

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ez4711\
Data File : z94855.D
Acq On : 26 Aug 2014 11:12 pm
Operator : ashleyv
Sample : icv4711-50
Misc : op76603,ez4712
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Aug 29 18:20:13 2014
Quant Method : C:\msdchem\1\METHODS\MZ4711.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Wed Aug 27 15:32:48 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ez4711\
 Data File : z94856.D
 Acq On : 26 Aug 2014 11:39 pm
 Operator : ashleyv
 Sample : icv4711-50
 Misc : op76603,ez4712
 ALS Vial : 25 Sample Multiplier: 1

Quant Time: Aug 29 18:21:52 2014
 Quant Method : C:\msdchem\1\METHODS\MZ4711.M
 Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
 QLast Update : Wed Aug 27 15:32:48 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	3.506	152	341133	40.00	ppb	0.00
24) Naphthalene-d8	4.836	136	1245831	40.00	ppb	0.00
47) Acenaphthene-d10	6.893	164	754383	40.00	ppb	0.00
69) Phenanthrene-d10	8.688	188	1279811	40.00	ppb	0.00
83) Chrysene-d12	12.406	240	1331590	40.00	ppb	0.00
92) Perylene-d12	14.463	264	1074694	40.00	ppb	0.00
102) 1,4-Dichlorobenzene-d4a	3.506	152	341133	40.00	ppb	0.00
104) Phenanthrene-d10a	8.688	188	1279811	40.00	ppb	0.00
107) Chrysene-d12a	12.406	240	1331590	40.00	ppb	0.00
110) Acenaphthene-d10a	6.893	164	754383	40.00	ppb	0.00
112) Naphthalene-d8a	4.836	136	1245831	40.00	ppb	0.00
114) Chrysene-d12b	12.406	240	1331590	40.00	ppb	0.00

System Monitoring Compounds

5) 2-Fluorophenol	0.000	112	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
8) Phenol-d5	0.000	99	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
25) Nitrobenzene-d5	0.000	82	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
51) 2-Fluorobiphenyl	0.000	172	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
73) 2,4,6-Tribromophenol	0.000	330	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
86) Terphenyl-d14	0.000	244	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
106) o-terphenyl	0.000	230	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
109) 1-chlorooctadecane	0.000	57	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	

Target Compounds

						Qvalue
2) 1,4-Dioxane	1.513	88	197291	49.71	ppb	99
6) Indene	3.757	116	1002581	51.67	ppb	96
7) Cumene	2.800	105	1510902	50.25	ppb	99
13) Decane	3.345	43	1084756	48.63	ppb	94
18) Acetophenone	3.906	105	856633	48.04	ppb	96
26) Nitrobenzene	3.906	77	732906	50.67	ppb	# 42
27) Quinoline	5.242	129	1122878	49.65	ppb	96
40) 2,3-Dichloroaniline	6.006	161	559941	43.22	ppb	99
41) Caprolactam	5.327	55	376163	47.48	ppb	98
45) 1-Methylnaphthalene	5.776	141	976951	48.61	ppb	98
46) Dimethylnaphthalene	6.406	156	1097404	48.35	ppb	99
48) Hexachlorocyclopentadiene	5.851	237	282819	46.53	ppb	96
53) Biphenyl	6.225	154	1405258	48.95	ppb	98
82) Octadecane	8.639	57	1104826	50.51	ppb	96
100) 7,12-Dimethylbenz(a)an...	13.944	256	552605	34.65	ppb	99
103) Benzaldehyde	3.105	105	486028	67.37	ppb	97
105) Atrazine	8.404	215	202745	56.57	ppb	90

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ez4711\
Data File : z94856.D
Acq On : 26 Aug 2014 11:39 pm
Operator : ashleyv
Sample : icv4711-50
Misc : op76603,ez4712
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Aug 29 18:21:52 2014
Quant Method : C:\msdchem\1\METHODS\MZ4711.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Wed Aug 27 15:32:48 2014
Response via : Initial Calibration

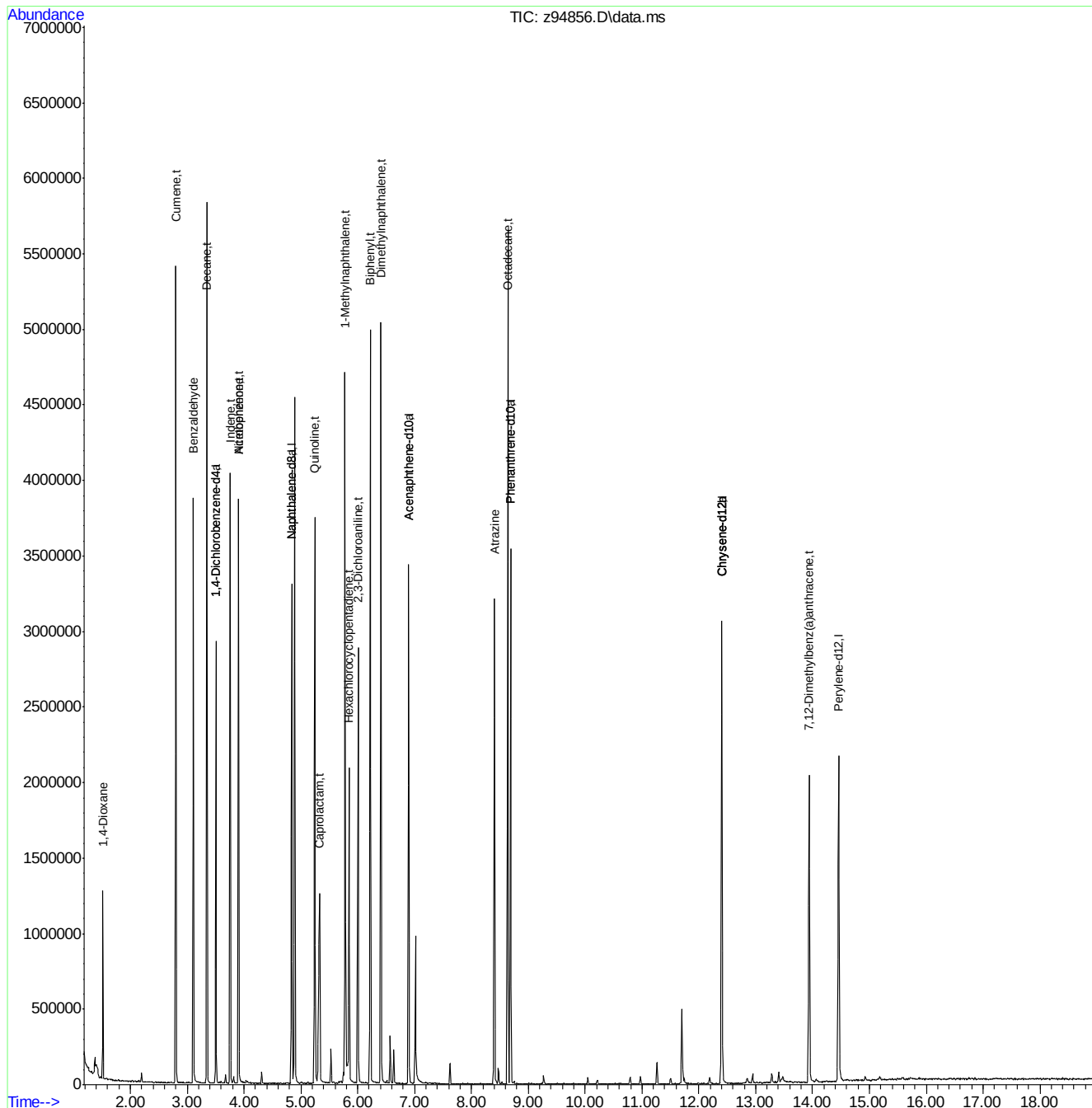
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ez4711\
Data File : z94856.D
Acq On : 26 Aug 2014 11:39 pm
Operator : ashleyv
Sample : icv4711-50
Misc : op76603,ez4712
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Aug 29 18:21:52 2014
Quant Method : C:\msdchem\1\METHODS\MZ4711.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Wed Aug 27 15:32:48 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ez4711\
 Data File : z94858.D
 Acq On : 27 Aug 2014 12:30 am
 Operator : ashleyv
 Sample : icv4711-50
 Misc : op76603,ez4712
 ALS Vial : 27 Sample Multiplier: 1

Quant Time: Aug 29 16:48:52 2014
 Quant Method : C:\msdchem\1\METHODS\MZ4711.M
 Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
 QLast Update : Wed Aug 27 15:32:48 2014
 Response via : Initial Calibration

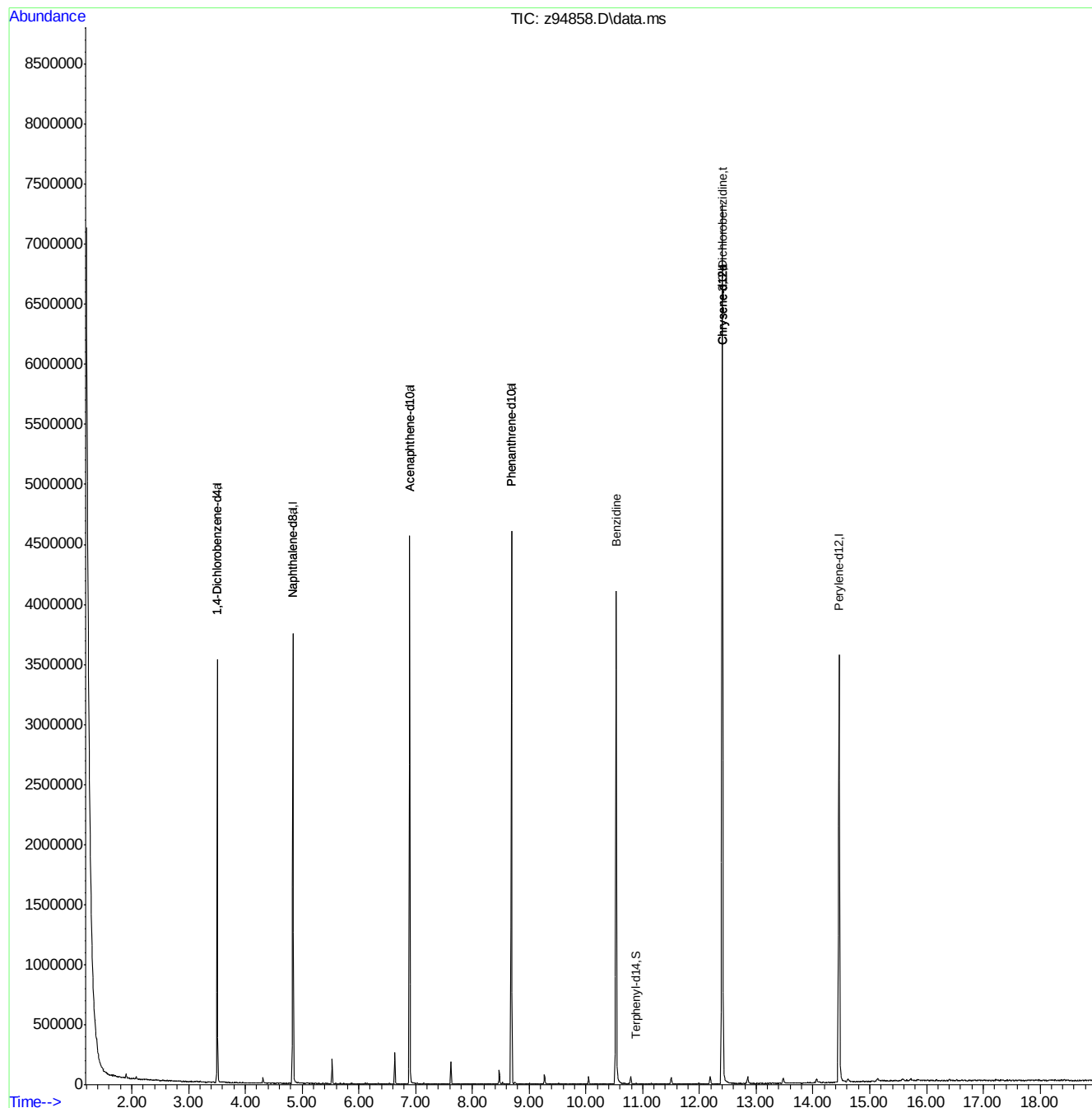
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	3.506	152	411999	40.00	ppb	0.00
24) Naphthalene-d8	4.841	136	1521229	40.00	ppb	0.00
47) Acenaphthene-d10	6.893	164	918725	40.00	ppb	0.00
69) Phenanthrene-d10	8.688	188	1654333	40.00	ppb	0.00
83) Chrysene-d12	12.411	240	1913565	40.00	ppb	0.00
92) Perylene-d12	14.463	264	1777119	40.00	ppb	0.00
102) 1,4-Dichlorobenzene-d4a	3.506	152	411999	40.00	ppb	0.00
104) Phenanthrene-d10a	8.688	188	1654333	40.00	ppb	0.00
107) Chrysene-d12a	12.411	240	1913565	40.00	ppb	0.00
110) Acenaphthene-d10a	6.893	164	918725	40.00	ppb	0.00
112) Naphthalene-d8a	4.841	136	1521229	40.00	ppb	0.00
114) Chrysene-d12b	12.411	240	1913565	40.00	ppb	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	0.000	112	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
8) Phenol-d5	0.000	99	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
25) Nitrobenzene-d5	0.000	82	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
51) 2-Fluorobiphenyl	0.000	172	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
73) 2,4,6-Tribromophenol	0.000	330	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
86) Terphenyl-d14	10.883	244	1780	0.04	ppb	0.00
Spiked Amount 50.000			Recovery	=	0.08%	
106) o-terphenyl	0.000	230	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
109) 1-chlorooctadecane	0.000	57	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
Target Compounds						
89) 3,3'-Dichlorobenzidine	12.406	252	1048155	47.62	ppb	98
108) Benzidine	10.536	184	1768010	75.28	ppb	99

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ez4711\
Data File : z94858.D
Acq On : 27 Aug 2014 12:30 am
Operator : ashleyv
Sample : icv4711-50
Misc : op76603,ez4712
ALS Vial : 27 Sample Multiplier: 1

Quant Time: Aug 29 16:48:52 2014
Quant Method : C:\msdchem\1\METHODS\MZ4711.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Wed Aug 27 15:32:48 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ez4711\
 Data File : z94859.D
 Acq On : 27 Aug 2014 12:56 am
 Operator : ashleyv
 Sample : icv4711-50
 Misc : op76603,ez4712
 ALS Vial : 28 Sample Multiplier: 1

Quant Time: Aug 27 14:24:15 2014
 Quant Method : C:\MSDCHEM\1\METHODS\MZ4711.M
 Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
 QLast Update : Wed Aug 27 14:23:46 2014
 Response via : Initial Calibration

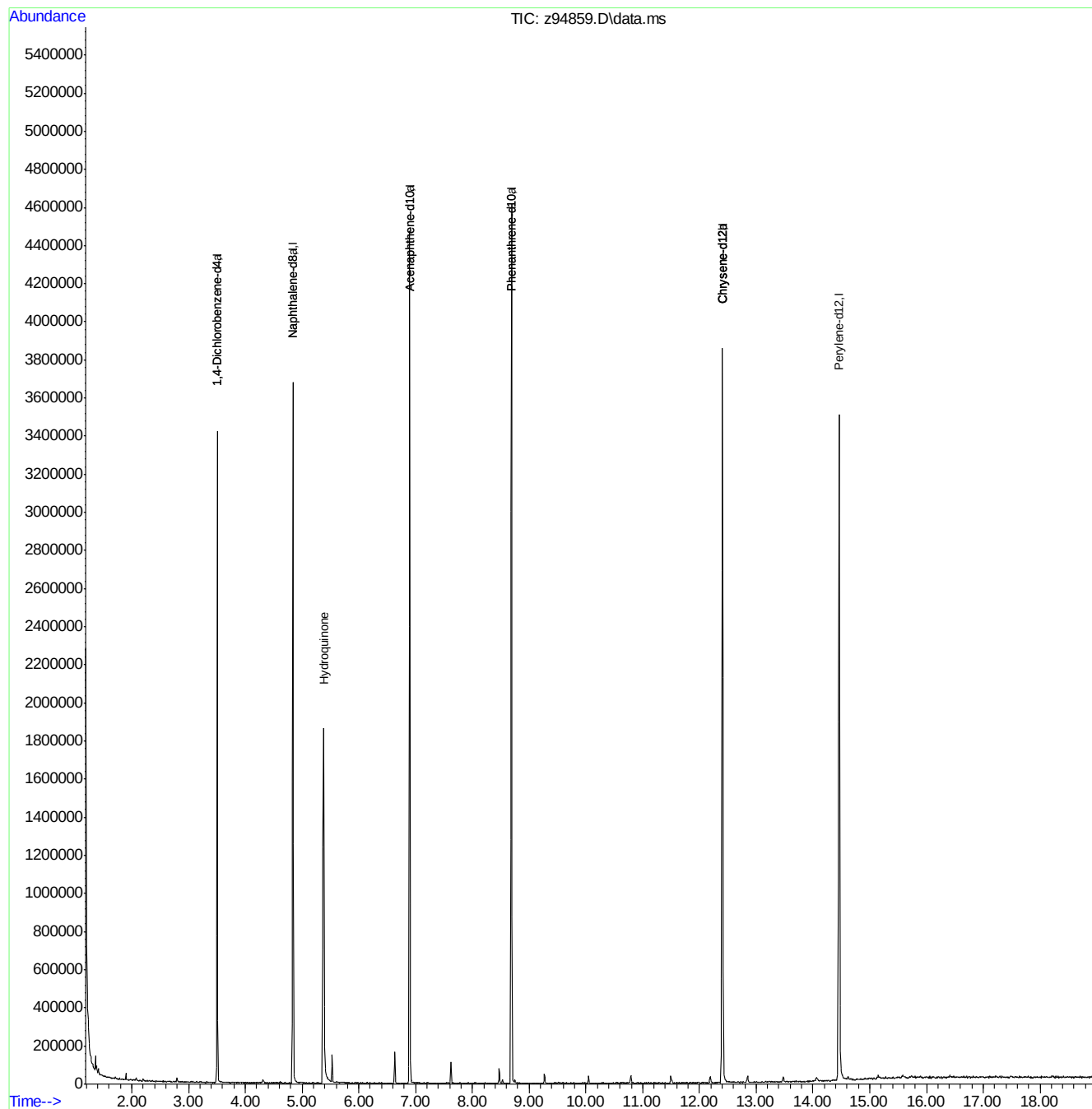
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	3.506	152	402916	40.00	ppb	0.00
24) Naphthalene-d8	4.841	136	1490967	40.00	ppb	0.00
47) Acenaphthene-d10	6.893	164	922945	40.00	ppb	0.00
69) Phenanthrene-d10	8.688	188	1629914	40.00	ppb	0.00
83) Chrysene-d12	12.406	240	1895771	40.00	ppb	0.00
92) Perylene-d12	14.462	264	1758191	40.00	ppb	0.00
102) 1,4-Dichlorobenzene-d4a	3.506	152	402916	40.00	ppb	0.00
104) Phenanthrene-d10a	8.688	188	1629914	40.00	ppb	0.00
107) Chrysene-d12a	12.406	240	1895771	40.00	ppb	0.00
110) Acenaphthene-d10a	6.893	164	922945	40.00	ppb	0.00
112) Naphthalene-d8a	4.841	136	1490967	40.00	ppb	0.00
114) Chrysene-d12b	12.406	240	1895771	40.00	ppb	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	0.000	112	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
8) Phenol-d5	0.000	99	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
25) Nitrobenzene-d5	0.000	82	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
51) 2-Fluorobiphenyl	0.000	172	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
73) 2,4,6-Tribromophenol	0.000	330	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
86) Terphenyl-d14	0.000	244	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
106) o-terphenyl	0.000	230	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
109) 1-chlorooctadecane	0.000	57	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
Target Compounds						
113) Hydroquinone	5.381	110	772199	68.51	ppb	Qvalue 98

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ez4711\
Data File : z94859.D
Acq On : 27 Aug 2014 12:56 am
Operator : ashleyv
Sample : icv4711-50
Misc : op76603,ez4712
ALS Vial : 28 Sample Multiplier: 1

Quant Time: Aug 27 14:24:15 2014
Quant Method : C:\MSDCHEM\1\METHODS\MZ4711.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Wed Aug 27 14:23:46 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ez4711\
 Data File : z94860.D
 Acq On : 27 Aug 2014 1:21 am
 Operator : ashleyv
 Sample : icv1411-50
 Misc : op76603,ez4712
 ALS Vial : 29 Sample Multiplier: 1

Quant Time: Aug 27 14:25:48 2014
 Quant Method : C:\MSDCHEM\1\METHODS\MZ4711.M
 Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
 QLast Update : Wed Aug 27 14:23:46 2014
 Response via : Initial Calibration

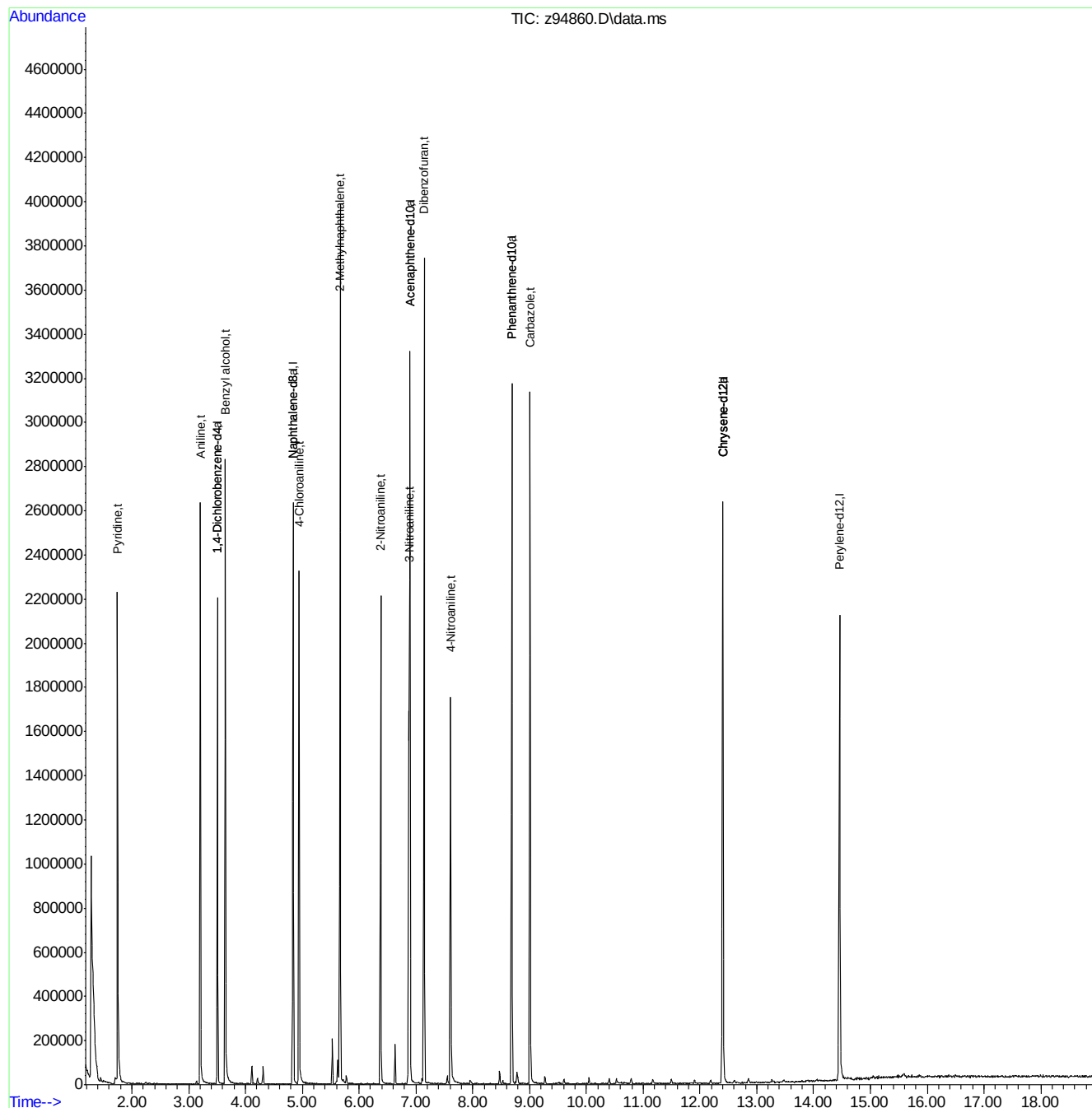
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	3.506	152	274101	40.00	ppb	0.00
24) Naphthalene-d8	4.836	136	1079518	40.00	ppb	0.00
47) Acenaphthene-d10	6.893	164	676449	40.00	ppb	0.00
69) Phenanthrene-d10	8.688	188	1186538	40.00	ppb	0.00
83) Chrysene-d12	12.406	240	1242205	40.00	ppb	0.00
92) Perylene-d12	14.457	264	1027561	40.00	ppb	-0.01
102) 1,4-Dichlorobenzene-d4a	3.506	152	274101	40.00	ppb	0.00
104) Phenanthrene-d10a	8.688	188	1186538	40.00	ppb	0.00
107) Chrysene-d12a	12.406	240	1242205	40.00	ppb	0.00
110) Acenaphthene-d10a	6.893	164	676449	40.00	ppb	0.00
112) Naphthalene-d8a	4.836	136	1079518	40.00	ppb	0.00
114) Chrysene-d12b	12.406	240	1242205	40.00	ppb	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	0.000	112	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
8) Phenol-d5	0.000	99	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
25) Nitrobenzene-d5	0.000	82	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
51) 2-Fluorobiphenyl	0.000	172	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
73) 2,4,6-Tribromophenol	0.000	330	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
86) Terphenyl-d14	0.000	244	0d	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
106) o-terphenyl	0.000	230	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
109) 1-chlorooctadecane	0.000	57	0	0.00	ppb	
Spiked Amount 50.000			Recovery	=	0.00%	
Target Compounds						
3) Pyridine	1.748	79	433841	54.61	ppb	92
10) Aniline	3.206	93	653754	48.17	ppb	70
16) Benzyl alcohol	3.644	108	306776	47.37	ppb	99
39) 4-Chloroaniline	4.943	127	544453	41.18	ppb	95
44) 2-Methylnaphthalene	5.664	141	813186	43.33	ppb	98
54) 2-Nitroaniline	6.380	65	333290	40.89	ppb	91
58) 3-Nitroaniline	6.877	138	231665	38.81	ppb	99
62) Dibenzofuran	7.144	168	1301204	42.49	ppb	92
68) 4-Nitroaniline	7.608	138	220916	38.55	ppb	95
79) Carbazole	9.008	167	1368239	44.16	ppb	99

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ez4711\
Data File : z94860.D
Acq On : 27 Aug 2014 1:21 am
Operator : ashleyv
Sample : icv1411-50
Misc : op76603,ez4712
ALS Vial : 29 Sample Multiplier: 1

Quant Time: Aug 27 14:25:48 2014
Quant Method : C:\MSDCHEM\1\METHODS\MZ4711.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Wed Aug 27 14:23:46 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ez4729\
 Data File : z95246.D
 Acq On : 8 Sep 2014 7:59 pm
 Operator : saraw
 Sample : cc4711-25
 Misc : op77770,ez4729
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 09 11:26:46 2014
 Quant Method : C:\MSDCHEM\1\METHODS\MZ4711.M
 Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
 QLast Update : Tue Sep 09 07:54:10 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	3.313	152	226562	40.00	ppb	0.00
24) Naphthalene-d8	4.633	136	822367	40.00	ppb	0.00
47) Acenaphthene-d10	6.679	164	535354	40.00	ppb	0.00
69) Phenanthrene-d10	8.468	188	933306	40.00	ppb	0.00
83) Chrysene-d12	12.155	240	1079747	40.00	ppb	0.00
92) Perylene-d12	14.211	264	977582	40.00	ppb	0.00
102) 1,4-Dichlorobenzene-d4a	3.313	152	226562	40.00	ppb	0.00
104) Phenanthrene-d10a	8.468	188	933306	40.00	ppb	0.00
106) Chrysene-d12a	12.155	240	1079747	40.00	ppb	0.00
108) Acenaphthene-d10a	6.679	164	535354	40.00	ppb	0.00
110) Naphthalene-d8a	4.633	136	822367	40.00	ppb	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	2.261	112	172870	24.47	ppb	0.00
Spiked Amount 50.000			Recovery =	48.94%		
8) Phenol-d5	3.009	99	242332	27.34	ppb	0.00
Spiked Amount 50.000			Recovery =	54.68%		
25) Nitrobenzene-d5	3.869	82	239448	26.51	ppb	0.00
Spiked Amount 50.000			Recovery =	53.02%		
51) 2-Fluorobiphenyl	5.904	172	424051	21.57	ppb	0.00
Spiked Amount 50.000			Recovery =	43.14%		
73) 2,4,6-Tribromophenol	7.640	330	69637	18.47	ppb	0.00
Spiked Amount 50.000			Recovery =	36.94%		
86) Terphenyl-d14	10.637	244	540028	22.86	ppb	0.00
Spiked Amount 50.000			Recovery =	45.72%		
Target Compounds						
2) 1,4-Dioxane	1.369	88	70772	26.85	ppb	# 76
3) Pyridine	1.524	79	189018	28.79	ppb	# 50
4) N-Nitrosodimethylamine	1.502	74	112632	28.05	ppb	# 28
6) Indene	3.559	116	305141	23.68	ppb	95
7) Cumene	2.619	105	483116	24.19	ppb	98
9) Phenol	3.019	94	283649	25.97	ppb	92
10) Aniline	3.014	93	267075	23.81	ppb	68
11) bis(2-Chloroethyl)ether	3.067	93	187183	26.18	ppb	95
12) 2-Chlorophenol	3.132	128	198358	22.29	ppb	86
13) Decane	3.158	43	254560	17.18	ppb	74
14) 1,3-Dichlorobenzene	3.260	146	233264	22.26	ppb	98
15) 1,4-Dichlorobenzene	3.329	146	233694	22.33	ppb	97
16) Benzyl alcohol	3.457	108	134421	25.11	ppb	97
17) 1,2-Dichlorobenzene	3.473	146	217537	22.42	ppb	95
18) Acetophenone	3.714	105	273772	23.12	ppb	99
19) 2-Methylphenol	3.591	108	171518	24.73	ppb	97
20) 2,2'-oxybis(1-Chloropr...	3.586	121	58872	21.55	ppb	# 55
21) 3&4-Methylphenol	3.751	108	190843	25.57	ppb	92
22) n-Nitroso-di-n-propyla...	3.719	70	172238	27.34	ppb	# 59
23) Hexachloroethane	3.805	201	92524	21.53	ppb	93
26) Nitrobenzene	3.890	77	246087	25.77	ppb	94
27) Quinoline	5.044	129	361568	24.22	ppb	98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ez4729\
 Data File : z95246.D
 Acq On : 8 Sep 2014 7:59 pm
 Operator : saraw
 Sample : cc4711-25
 Misc : op77770,ez4729
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 09 11:26:46 2014
 Quant Method : C:\MSDCHEM\1\METHODS\MZ4711.M
 Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
 QLast Update : Tue Sep 09 07:54:10 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
28) Isophorone	4.141	82	416601	27.14	ppb	82
29) 2-Nitrophenol	4.227	139	114415	24.40	ppb	84
30) 2,4-Dimethylphenol	4.307	107	186195	22.99	ppb	92
31) Benzoic Acid	4.462	105	138443	24.17	ppb	99
32) bis(2-Chloroethoxy)met...	4.392	93	223677	26.04	ppb	99
33) 2,4-Dichlorophenol	4.521	162	180705	23.92	ppb	97
34) 2,6-Dichlorophenol	4.750	162	183694	24.70	ppb	99
35) 1,3,5-Trichlorobenzene	4.232	180	207283	24.08	ppb	94
36) 1,2,4-Trichlorobenzene	4.579	180	198957	23.29	ppb	86
37) 1,2,3-Trichlorobenzene	4.825	180	193330	23.72	ppb	95
38) Naphthalene	4.659	128	592440	23.59	ppb	98
39) 4-Chloroaniline	4.745	127	218081	21.66	ppb	96
40) 2,3-Dichloroaniline	5.797	161	201172	23.52	ppb	97
41) Caprolactam	5.146	55	109274	20.90	ppb	83
42) Hexachlorobutadiene	4.804	225	131396	20.90	ppb	98
43) 4-Chloro-3-methylphenol	5.365	107	197696	24.32	ppb	93
44) 2-Methylnaphthalene	5.455	141	342154	23.93	ppb	97
45) 1-Methylnaphthalene	5.568	141	308238	23.23	ppb	96
46) Dimethylnaphthalene	6.198	156	339132	22.63	ppb	98
48) Hexachlorocyclopentadiene	5.637	237	63928	17.94	ppb	94
49) 2,4,6-Trichlorophenol	5.819	196	137728	20.54	ppb	91
50) 2,4,5-Trichlorophenol	5.893	196	130800	19.69	ppb	94
52) 2-Chloronaphthalene	6.027	162	405928	22.81	ppb	98
53) Biphenyl	6.016	154	465399	22.85	ppb	99
54) 2-Nitroaniline	6.182	65	160056	24.81	ppb	90
55) Dimethylphthalate	6.412	163	454680	22.15	ppb	99
56) Acenaphthylene	6.513	152	638595	23.01	ppb	99
57) 2,6-Dinitrotoluene	6.481	165	105419	22.79	ppb	83
58) 3-Nitroaniline	6.679	138	115313	24.41	ppb	86
59) Acenaphthene	6.722	153	394142	22.69	ppb	99
60) 2,4-Dinitrophenol	6.839	184	93900	36.49	ppb	87
61) 4-Nitrophenol	7.015	109	50623	15.96	ppb	95
62) Dibenzofuran	6.930	168	575457	23.75	ppb	93
63) 2,4-Dinitrotoluene	6.978	165	149774	23.52	ppb	78
64) 2,3,4,6-Tetrachlorophenol	7.112	232	111031	17.86	ppb	96
65) Diethylphthalate	7.261	149	462773	22.03	ppb	99
66) Fluorene	7.341	166	474977	23.64	ppb	98
67) 4-Chlorophenyl-phenyle...	7.363	204	226281	21.64	ppb	98
68) 4-Nitroaniline	7.416	138	105829	23.34	ppb	90
70) 4,6-Dinitro-2-methylph...	7.475	198	89802	25.74	ppb	79
71) n-Nitrosodiphenylamine	7.518	169	332371	23.61	ppb	91
72) 1,2-Diphenylhydrazine	7.555	77	499620	26.68	ppb	94
74) 4-Bromophenyl-phenylether	7.945	248	145113	22.37	ppb	98
75) Hexachlorobenzene	8.004	284	163859	21.34	ppb	95
76) Pentachlorophenol	8.276	266	113325	28.79	ppb	97
77) Phenanthrene	8.495	178	713294	24.68	ppb	98
78) Anthracene	8.559	178	728656	24.97	ppb	98
79) Carbazole	8.794	167	614006	25.19	ppb	98
80) Di-n-butylphthalate	9.291	149	797450	23.65	ppb	99
81) Fluoranthene	10.055	202	796291	23.49	ppb	88

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ez4729\
 Data File : z95246.D
 Acq On : 8 Sep 2014 7:59 pm
 Operator : saraw
 Sample : cc4711-25
 Misc : op77770,ez4729
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 09 11:26:46 2014
 Quant Method : C:\MSDCHEM\1\METHODS\MZ4711.M
 Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
 QLast Update : Tue Sep 09 07:54:10 2014
 Response via : Initial Calibration

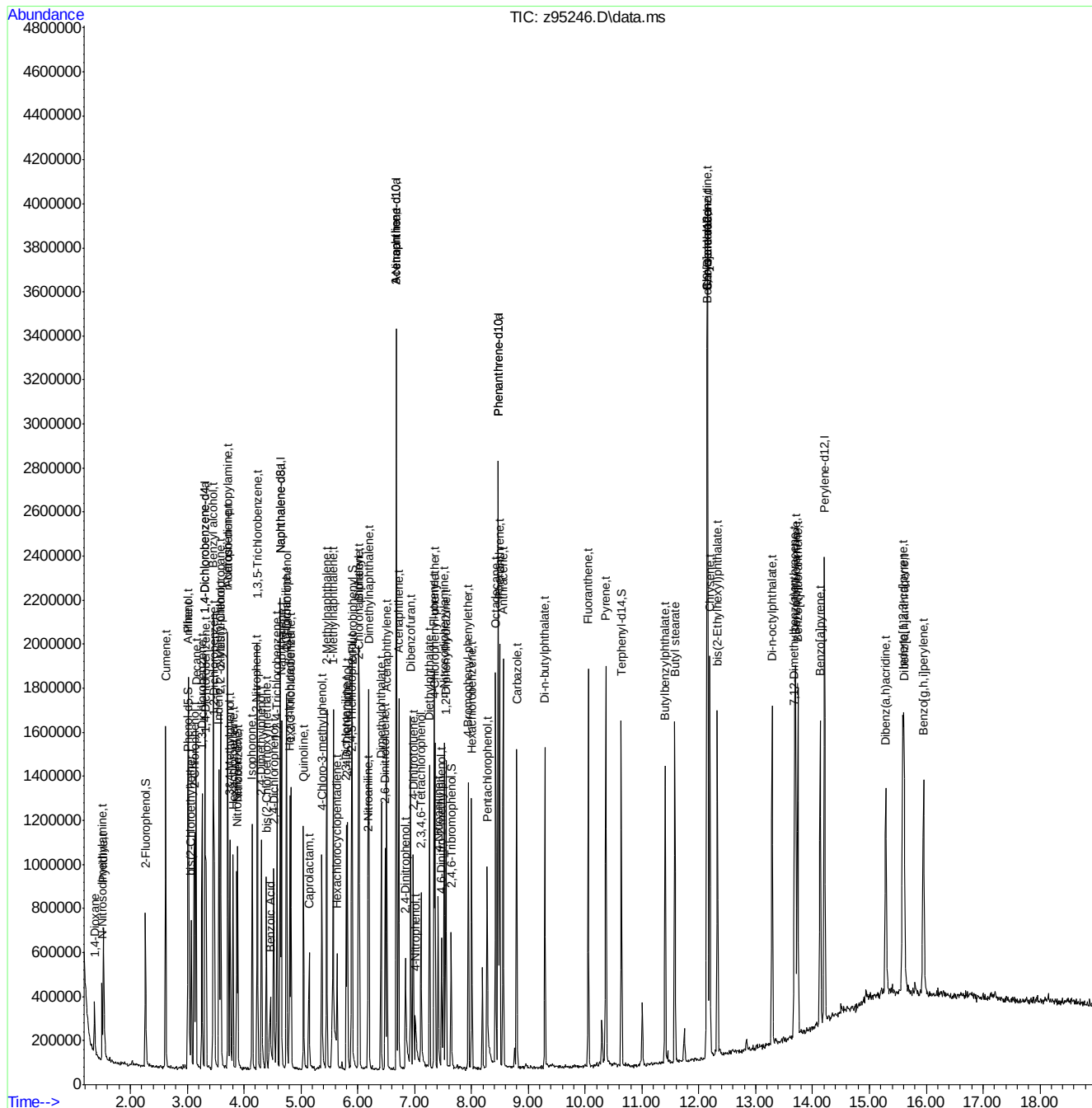
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
82) Octadecane	8.426	57	333444	20.90	ppb	82
84) Pyrene	10.365	202	850932	23.83	ppb	86
85) Butyl stearate	11.572	56	262255	22.35	ppb	88
87) Butylbenzylphthalate	11.407	149	369883	24.65	ppb	93
88) Benzo[a]anthracene	12.144	228	842931	23.34	ppb	98
89) 3,3'-Dichlorobenzidine	12.149	252	281552	22.67	ppb	94
90) Chrysene	12.192	228	766790	22.89	ppb	99
91) bis(2-Ethylhexyl)phtha...	12.326	149	506885	24.60	ppb	99
93) Di-n-octylphthalate	13.287	149	909095	25.38	ppb	95
94) Benzo[b]fluoranthene	13.704	252	834492	22.77	ppb	98
95) Benzo[k]fluoranthene	13.741	252	800351	22.73	ppb	97
96) Benzo[a]pyrene	14.137	252	736443	22.75	ppb	98
97) Indeno[1,2,3-cd]pyrene	15.590	276	776619m	23.99	ppb	
98) Dibenz(a,h)acridine	15.290	279	589712	22.69	ppb	98
99) Dibenz[a,h]anthracene	15.611	278	717455	22.56	ppb	96
100) 7,12-Dimethylbenz(a)an...	13.682	256	342178	24.18	ppb	99
101) Benzo[g,h,i]perylene	15.953	276	721336	22.40	ppb	93

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

Quantitation Report (QT Reviewed)

```
Data Path   : C:\msdchem\1\DATA\ez4729\
Data File  : z95246.D
Acq On     : 8 Sep 2014    7:59 pm
Operator   : saraw
Sample     : cc4711-25
Misc       : op77770,ez4729
ALS Vial   : 2      Sample Multiplier: 1
```

Quant Time: Sep 09 11:26:46 2014
Quant Method : C:\MSDCHEM\1\METHODS\MZ4711.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Tue Sep 09 07:54:10 2014
Response via : Initial Calibration



Manual Integration Approval Summary

Sample Number:

EZ4729-CC4711

Method:

SW846 8270D

Lab FileID:

Z95246.D

Analyst approved:

09/09/14 11:28 Andrew Lee Smith

Injection Time:

09/08/14 19:59

Supervisor approved:

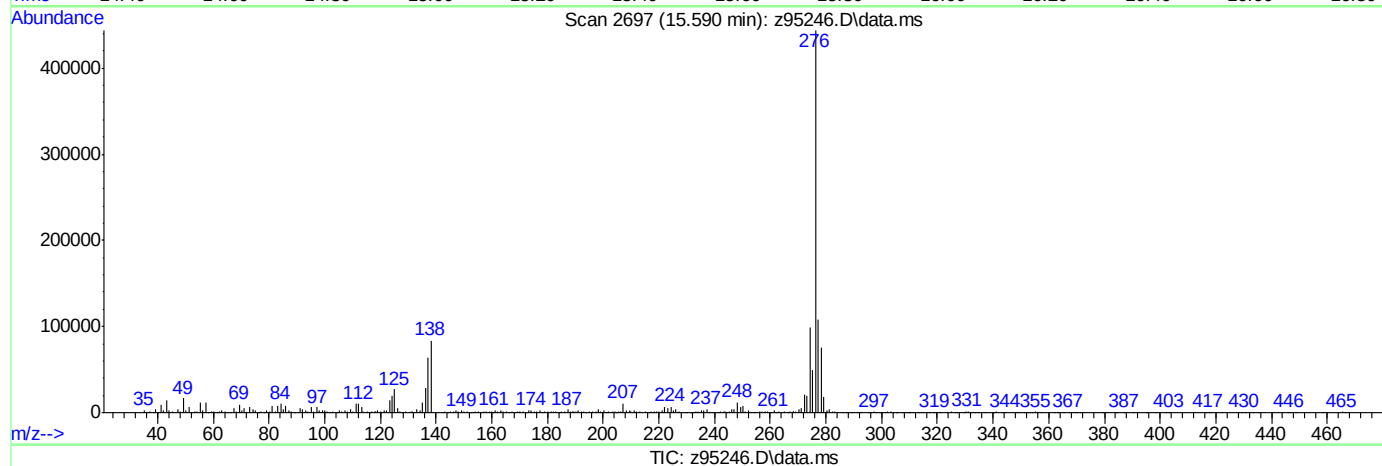
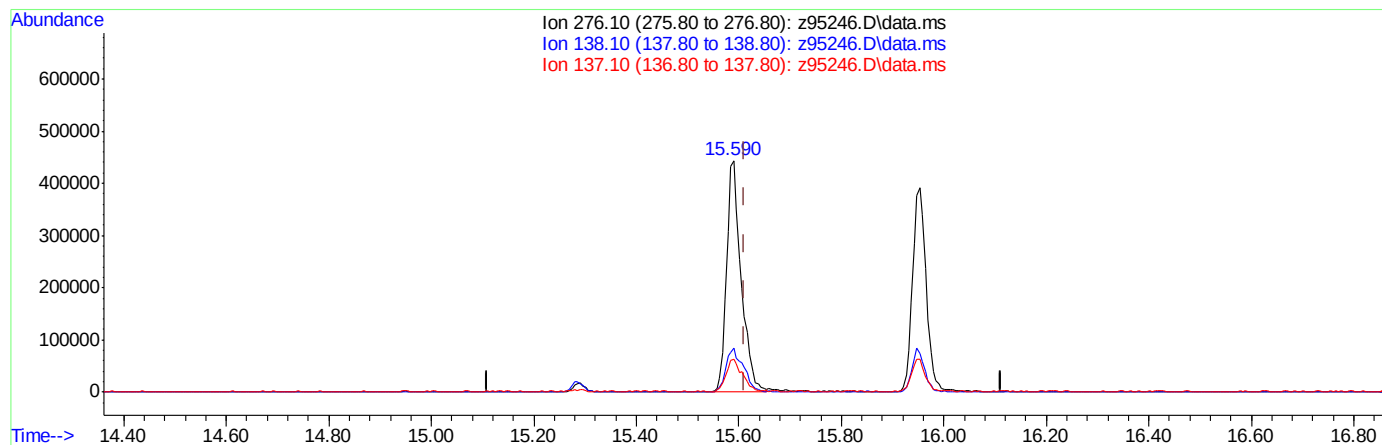
09/09/14 11:59 Nina Pandya

Parameter	CAS	Sig#	R.T. (min.)	Reason
Indeno(1,2,3-cd)pyrene	193-39-5		15.59	Split peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\ez4729\
Data File : z95246.D
Acq On : 8 Sep 2014 7:59 pm
Operator : saraw
Sample : cc4711-25
Misc : op77580,ez4729
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 08 20:18:29 2014
Quant Method : C:\MSDCHEM\1\METHODS\MZ4711.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Fri Sep 05 13:27:02 2014
Response via : Initial Calibration



(97) Indeno[1,2,3-cd]pyrene (t)

15.590min (-0.022) 26.60ppb

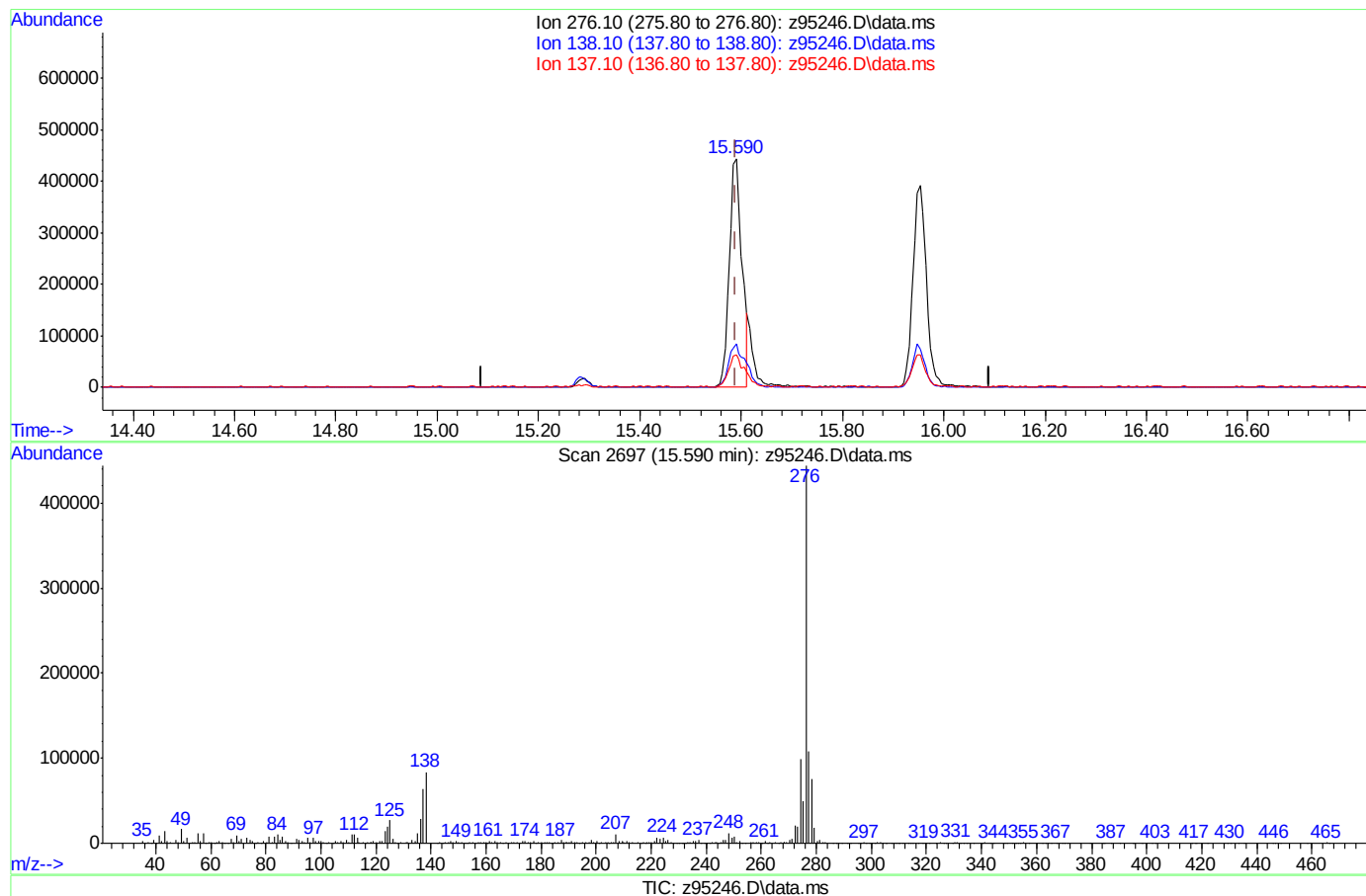
response 861333

Ion	Exp%	Act%
276.10	100	100
138.10	15.00	18.64
137.10	10.00	13.98
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\ez4729\
Data File : z95246.D
Acq On : 8 Sep 2014 7:59 pm
Operator : saraw
Sample : cc4711-25
Misc : op77770,ez4729
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 09 07:54:40 2014
Quant Method : C:\MSDCHEM\1\METHODS\MZ4711.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Tue Sep 09 07:54:10 2014
Response via : Initial Calibration



(97) Indeno[1,2,3-cd]pyrene (t)

15.590min (0.000) 23.99ppb m

response 776619

Ion	Exp%	Act%
276.10	100	100
138.10	15.00	18.82
137.10	10.00	14.30
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ez4729\
 Data File : z95247.D
 Acq On : 8 Sep 2014 8:28 pm
 Operator : saraw
 Sample : cc4711-25
 Misc : op77580,ez4729
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 09 09:09:11 2014
 Quant Method : C:\MSDCHEM\1\METHODS\MZ4711.M
 Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
 QLast Update : Tue Sep 09 09:08:18 2014
 Response via : Initial Calibration

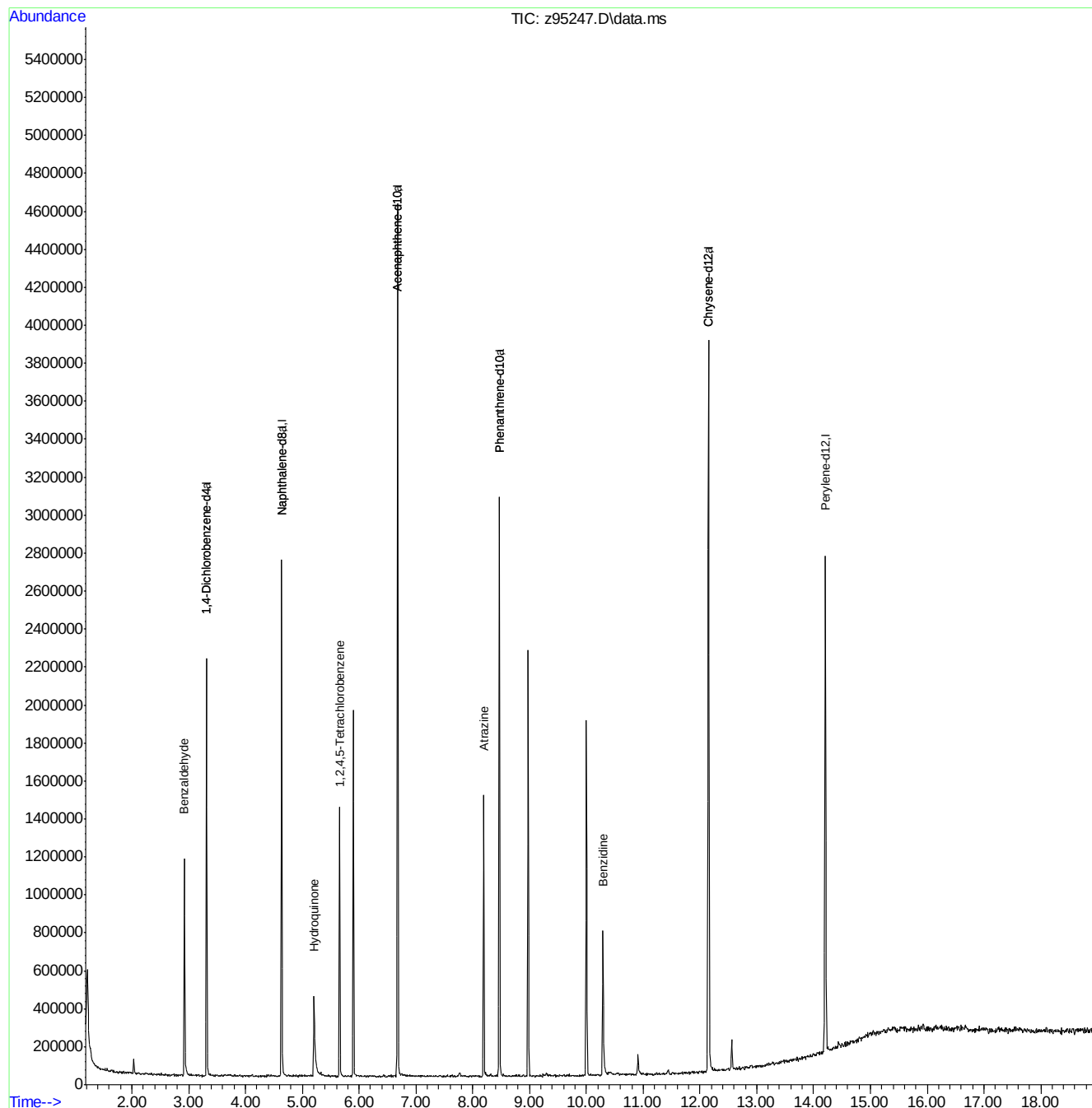
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	3.313	152	274405	40.00	ppb	-0.02
24) Naphthalene-d8	4.633	136	1022678	40.00	ppb	-0.02
47) Acenaphthene-d10	6.679	164	623364	40.00	ppb	-0.02
69) Phenanthrene-d10	8.469	188	1119873	40.00	ppb	-0.02
83) Chrysene-d12	12.155	240	1338232	40.00	ppb	-0.02
92) Perylene-d12	14.206	264	1174588	40.00	ppb	-0.02
102) 1,4-Dichlorobenzene-d4a	3.313	152	274405	40.00	ppb	-0.02
104) Phenanthrene-d10a	8.469	188	1119873	40.00	ppb	-0.02
106) Chrysene-d12a	12.155	240	1338232	40.00	ppb	-0.02
108) Acenaphthene-d10a	6.679	164	623364	40.00	ppb	-0.02
110) Naphthalene-d8a	4.633	136	1022678	40.00	ppb	-0.02
System Monitoring Compounds						
5) 2-Fluorophenol	0.000	112	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
8) Phenol-d5	0.000	99	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
25) Nitrobenzene-d5	0.000	82	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
51) 2-Fluorobiphenyl	0.000	172	0d	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
73) 2,4,6-Tribromophenol	0.000	330	0	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
86) Terphenyl-d14	0.000	244	0d	0.00	ppb	
Spiked Amount	50.000		Recovery	=	0.00%	
Target Compounds						
103) Benzaldehyde	2.923	105	181719	31.31	ppb	Qvalue # 87
105) Atrazine	8.196	215	82959	26.45	ppb	92
107) Benzidine	10.290	184	358743	21.84	ppb	96
109) 1,2,4,5-Tetrachloroben...	5.659	216	244777	23.70	ppb	100
111) Hydroquinone	5.205	110	191704	24.80	ppb	89

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ez4729\
Data File : z95247.D
Acq On : 8 Sep 2014 8:28 pm
Operator : saraw
Sample : cc4711-25
Misc : op77580,ez4729
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 09 09:09:11 2014
Quant Method : C:\MSDCHEM\1\METHODS\MZ4711.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Tue Sep 09 09:08:18 2014
Response via : Initial Calibration





ACCUTEST.

SEMI-VOLATILE by GCMS ANALYSIS LOG

Batch ID: E2P1691

Date: 9-8-14

Analyst Signature: [Signature]

Standard Data

Lot #	Description	Conc.
SWH-145-178A	RUA	12.4ppm
SWH-145-178B		0.0ppm
SWH-145-178C		0.0ppm
SWH-145-178D		0.0ppm
SWH-145-178E		10.0ppm
SWH-145-178F		5.0ppm

Standard Data

Lot #	Description	Conc.
SWH-145-178	12.4ppm	5.0ppm
SWH-145-178B	RUA	2.0ppm
SWH-145-178C		1.0ppm

Columns: P7V5M51 3.21x.24mm.25u

Method: E2P1625

Initial Cal. Method: RPAW

Injection Volume: 1.0L

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: [Signature]

Date: 9/8/14

R	Data File	Sample ID	Ext. Batch	Test	M T X	ALS #	Dilution n.	L +	I S	S U	Status (Data)	Comments
1	2040348	12.4ppm			W	1					OK	12:44pm
1	40349	K1651-50			W	2					OK	
1	40350	K1651-100			W	3					OK	
1	40351	K1651-1			W	4					OK	
1	40352	K1651-20			W	5					OK	
1	40353	K1651-2			W	6					OK	
1	40354	K1651-25			W	7					OK	
1	40355	K1651-5			W	8					OK	
1	40356	K1651-10			W	9					OK	

ITX = Matrix. Designate W for water, S for soil, O for oil. L+ = Library Search. IS = Internal Standard Area. SU = Surrogate.

Sample volume/weight used and final volumes refer to extraction log.

59

All strikeouts must be initialed, dated and reason code applied as follows:

1 = reviewer correction error; 2 = transcription error; 3 = computer miscalculation; 4 = analyst's correction error

Form: OR015-05

Rev. Date: 1/16/2006



ACCUTEST

SEMI-VOLATILE by GCMS ANALYSIS LOG

Batch ID: E2P1652

Date: 9-5-14

Analyst Signature: [Signature]

Standard Data

Lot #	Description	Conc.
SM445116A	TEL42	10ppm
SM445116B		8ppm
SM445116C		5ppm
SM445116D		2ppm
SM445116E		1ppm
SM445116F		5ppm

Standard Data

Lot #	Description	Conc.
SM445116	DF110	5ppm
SM445116G	TEL42	2ppm
SM445116H	+	1ppm

Columns: 27x515i 3mm.20um.25

Method EW10/625

Initial Cal. Method 1651 B.54

Injection Volume: 10L

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: AB

Date: 9-5-14

R	Data File	Sample ID	Ext. Batch	Test	M T X	ALS #	Dilutio n.	L +	I S	S U	Status (Data)	Comments
1	2P40357	DF110				W 1					OK	4.26pm
	40358	IC1652-100		TEL42		W 2					OK	
	40359	IC1652-80				W 3					OK	
	40360	IC1652-50				W 4					OK	
	40361	IC1652-25				W 5					OK	
	40362	IC1652-10				W 6					OK	
	40363	IC1652-5				W 7					OK	
	40364	IC1652-2				W 8					OK	
	40365	IC1652-1				W 9					OK	
	40366	KU1691-50	And			W 10					OK	OP4-125-70
	40367	KU1691-50	201			W 11					OK	OP4-125-21
	40368	KU1691-50	202			W 12					OK	OP4-125-131
	40369	KU1691-50	Andins			W 13					OK	OP4-125-38
	40370	KU1691-50	16			W 14					OK	OP4-130-44
	40371	KU1691-50	Benzidine			W 15					OK	SV141419187B
	40372	KU1691-50	ADNSUR			W 16					OK	CP141216116

ITX = Matrix. Designate W for water, S for soil, O for oil. L+ = Library Search. IS = Internal Standard Area. SU = Surrogate.

Sample volume/weight used and final volumes refer to extraction log.

61

All strikeouts must be initialed, dated and reason code applied as follows:

1 = reviewer correction error; 2 = transcription error; 3 = computer miscalculation; 4 = analyst's correction error

Form: OR015-05

Rev. Date: 1/16/2006



Batch ID: E2P1697

Date: 09/10/2014

Analyst Signature: HR

Standard Data

Standard Data

Lot #	Description	Conc.

Lot #	Description	Conc.
	See Page 87	

Columns: 15mm x 30mm x 25mm

Method 8270/625

Initial Cal. Method 17281691

Injection Volume: 1.5 cc

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: ATM

Date: 9-10-2014

[illegible]

TX = Matrix. Designate W for water, S for soil, O for oil. L+ =Library Search. IS = Internal Standard Area. SU = Surrogate.

Sample volume/weight used and final volumes refer to extraction log.

All strikeouts must be initialed, dated and reason code applied as follows:

1 = reviewer correction error; 2 = transcription error; 3 = computer miscalculation; 4 = analyst's correction error

Form: OR015-05
Rev. Date: 1/16/2006



SEMI-VOLATILE by GCMS ANALYSIS LOG

Batch ID: E2P1697

Date: 9/9/14

Analyst Signature: Santhosh Patel

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
SVH1419176	DETPP	50 ppm
SVH1419107C	BNH	50 ppm
SVH1419120A	TCL2	50 ppm
CL1273	IS	4600 / 6
CL138	Incubation	

Columns: RTX SMI 30m x 25mm x 25um

Method: 8270/625

Initial Cal. Method: M2P1691

Injection Volume: 1 µL

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: [Signature]

Date: 9/10/14

R	Data File	Sample ID	Ext. Batch	Test	M T X	ALS #	Dilutio n.	L +	I S	S U	Status (Data)	Comments
	SP9/9/14											
	2P405D1	DETPP			W	1					OK	7:49 AM
	502	CC1691-50		BNH	W	2					OK	Accel J, #93T
	503	CC1692-50		TCL2		3					OK	
	504	OP77878-1161	77878-1	ABN		44		+	/	/	OK	
	505	-BSI				45			/	/	OK	
	506	JB75844-6FB		PAH		46			/	/	OK	
	507	OP77866-1161	77866-1	ABN	S	47		+	/	/	OK	
	508	-BSI				48			/	/	OK	
R	509	JB75844-3		PAH		49	5		/	/	OK	VF = sul
R	510	-5				10	2		/	/	OK	
	511	JB75362-24	77852-1	ABSTON ⁺		11		+	/	/	OK	
	512	JB75430-1		ABPPL ⁺		12		+	/	/	OK	
R	513	JB75848-1		ABSTON ⁺		13		+	/	/	OK	
	514	JB75631-2		ABSTON ⁺		14		+	/	/	OK	M 1:5
	515	JB75222-3TX		ABSL		15			/	/	OK	
	516	JB75399-12TX		ABSTON ⁺		16		+	/	/	OK	VF = sul
	517	JB75844-1	77866-1	PAH		17			/	/	OK	confirmed by MSMS VF = sul reported from 2

ITX = Matrix. Designate W for water, S for soil, O for oil. L+ = Library Search. IS = Internal Standard Area. SU = Surrogate.

Sample volume/weight used and final volumes refer to extraction log.

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All strikeouts must be initialed, dated and reason code applied as follows:

1 = reviewer correction error; 2 = transcription error; 3 = computer miscalculation; 4 = analyst's correction error

prn: OR015-05

ev. Date: 1/16/2006

SEMI-VOLATILE by GCMS ANALYSIS LOG

Batch ID: E201697

Date: 9-9-14

Analyst Signature: CA

[illegible]

Standard Data		
Lot #	Description	Conc.
	Scrub as per #79	

Columns: NY - Mrs. Sonko, Lunko, & g

Method SLA/GIS

Initial Cal. Method *AP2P1691*

Injection Volume: 1.5 ml

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature:

Date:

R	Data File	Sample ID	Ext. Batch	Test	M T X	ALS #	Dilutio n.	L +	I S U	Status (Data)	Comments
	18 2P40518	0A9A14 0P77866-MS	77866-1	ABU	S	18		56 ↓	✓	OK	VF=SW
	40518	19 -MSD				19		56 ↓	✓	OK	VF=SW
	20 40518	0P77878-MS	77878-1	ABU	W	20		56 ↓	✓	OK	
	21 40518	MSD				21		56 ↓	✓	OK	
R	40522	JB75631-2	77852-1	ABU ⁺	S	22	5	6 ↓	✓	OK	row before 2P40518
	40522	JB75642	77854	ABU ⁺	W	23		6 ↓	✓	OK	409pm - confirmed by MS/MS

[TX = Matrix . Designate W for water, S for soil, O for oil. L+ =Library Search. IS = Internal Standard Area. SU = Surrogate.

Sample volume/weight used and final volumes refer to extraction log.

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All strikeouts must be initialed, dated and reason code applied as follows:

1 = reviewer correction error; 2 = transcription error; 3 = computer miscalculation; 4 = analyst's correction error

Form: OR015-05

Rev. Date: 1/16/2006

SEMI-VOLATILE by GCMS ANALYSIS LOG

Batch ID: EP3770

Date: 6/22/06

Analyst Signature: [Signature]

Standard Data

Lot #	Description	Conc.
54415004	BHT	10ppm
54415006		50ppm
54415006		50ppm
54415008		25ppm
54415008		10ppm
54415008		5ppm

Standard Data

Lot #	Description	Conc.
54415006	DEHP	50ppm
54415006	BHT	2ppm
54415007		1ppm

Columns: PKS-1 30m x 2mm x 25

Method: 20/625

Initial Cal. Method: P3766-3770

Injection Volume: 1.0

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: _____

Date: _____

R	Data File	Sample ID	Ext. Batch	Test	M T X	ALS #	Dilution n.	L +	I S	S U	Status (Data)	Comments
	P80220	DEHP			W	1						1.874
	80221	103770100			W	2					Net	Lower 61-Heun
	80222	1037701			W	3						
	80223	DEHP			W	1						
	80224	103770100			W	2					Net	
	80225	1037701			W	3						
	80226	Control			W	100						
	80227				W	100						
	80228				W	100						
	80229				W	100						

TX = Matrix: Designate W for water, S for soil, O for oil. L = Library Search. IS = Internal Standard Area. SU = Surrogate.

Sample volume/weight used and final volumes refer to extraction log.

1 = strikeouts must be initialed, dated and reason code applied as follows:

= reviewer correction error; 2 = transcription error; 3 = computer miscalculation; 4 = analyst's correction error

rm: OR015-05

v. Date: 1/16/2006

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SEMI-VOLATILE by GCMS ANALYSIS LOG

Batch ID: EP3170

Date: 8-22-14

Analyst Signature

Standard Data		
Lot #	Description	Conc.
SW-1415A	TKLZ	10ppm
SW-1415B	↓	8ppm
SW-1415C		5ppm
SW-1415D		2ppm
SW-1415E		1ppm
SW-1415F		5007

Lot #	Description	Conc.
SW4456	DEM	82007
SW4456G	1642	2007
SW4456H	6	1007

Columns: PKM, ZMK, ZMK, ZMK

Method ER10/625

Initial Cal. Method 1P3110

Injection Volume: 1.0L

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature _____

Date: 4-23-14

[illegible]

ITX = Matrix . Designate W for water, S for soil, O for oil. L+ = Library Search. IS = Internal Standard Area. SU = Surrogate.

Sample volume/weight used and final volumes refer to extraction log.

All strikeouts must be initialed, dated and reason code applied as follows:

= reviewer correction error; 2 = transcription error; 3 = computer miscalculation; 4 = analyst's correction error

Form: OR015-05

Rev. Date: 1/16/2006

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SEMI-VOLATILE by GCMS ANALYSIS LOG

Batch ID: EP 3771

Date: 8/22/06

Analyst Signature: [Signature]

Standard Data		
Lot #	Description	Conc.
5444510A	BVA	1000
5444510B		Supp
5444510C		Supp
5444510D		Supp
5444510E	✓	1000
5444510F		Supp

Standard Data		
Lot #	Description	Conc.
5444510G	DETD	Supp
5444510H	BVA	Supp
5444510I		1000

Columns: P66235 2M K. Vopak 3

Method 821.2/6.5

Initial Cal. Method AP 5110

Injection Volume: 1.0

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: [Signature]

Date: 8/23/06

R	Data File	Sample ID	Ext. Batch	Test	M T X	ALS #	Dilutio n.	L +	I S	S U	Status (Data)	Comments
	P66235	DETD			W	1					OK	10/26/04
	82240	103771-100			W	10					OK	
	82241	103771-80			W	11					OK	
	82242	103771-50			W	12					OK	
	82243	103771-25			W	13					OK	
	82244	103771-10			W	14					OK	
	82245	103771-5			W	15					OK	
	82246	103771-2			W	16					OK	
	82247	103771-1			W	17					OK	
	82248	103771-50	Acid		W	18					Not sing	OPH-10-12 Rejected
	82249	103771-50	BVA#1		W	19					Not sing	OPH-25-58 Rejected
	82250	103771-50	BVA#2		W	20					OK	OPH-25-22
	82251	103771-50	Surrogate		W	21					OK	OPH-25-25
	82252	103771-50	Surrogate		W	22					OK	5014-45-548
	82253	103771-50	Hg		W	23					Not needed	5014-45-16
	82254	103771-50	Surrogate		W	24					OK	

ITX = Matrix. Designate W for water, S for soil, O for oil. L+ = Library Search. IS = Internal Standard Area. SU = Surrogate.

Sample volume/weight used and final volumes refer to extraction log.

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All strikeouts must be initialed, dated and reason code applied as follows:

1 = reviewer correction error; 2 = transcription error; 3 = computer miscalculation; 4 = analyst's correction error

Form: OR015-05

Rev. Date: 1/16/2006



Batch ID: 73172

Date: 4/25/19

Analyst Signature:

[illegible]

Standard Data		
Lot #	Description	Conc.
244456	DFMP	2.00%

Columns: 21X21 30X30 20X20

Method E210/625

Initial Cal. Method P3770

Injection Volume: 1.2

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature:

Date: 9/23/14

[illegible]

TX = Matrix. Designate W for water, S for soil, O for oil. L+ = Library Search. IS = Internal Standard Area. SU = Surrogate.

Sample volume/weight used and final volumes refer to extraction log.

All strikeouts must be initialed, dated and reason code applied as follows:

1 = reviewer correction error; 2 = transcription error; 3 = computer miscalculation; 4 = analyst's correction error

Form: OR015-05

ev. Date: 1/16/2006

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ACCUTEST.

SEMI-VOLATILE by GCMS ANALYSIS LOG

Batch ID: EP3796

Date: 9/9/2014

Analyst Signature: AMO

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
SM44912	DFTTP	50ppm
SM44910	BVA	50ppm
SM44914	TCL42	2ppm
Q2723	Internal Std.	400ppm
DL88	DCM (H ₂ O)	-

Columns: RTX5MS30mV25mmV25

Method: 8270/605

Initial Cal. Method: MP3770

Injection Volume: 1 µL

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: [Signature]

Date: 9/10/14

R	Data File	Sample ID	Ext. Batch	Test	M T X	ALS #	Dilution n.	L +	I S	S U	Status (Data)	Comments
	P88853	DFTTP				1					OK	424pm.
	854	CC3771-50		BVA	W	2					OK	
	855	CC3770-25		TCL42	W	3					OK	
	856	OP7878-mb	7878-1	AB8270+	W	4		X	/	/	d	
	857	JB75473-2		BNJTC20+		5		X	/	/	d	PERKIO 2x
	858	-4				6		X	/	/	d	
	859	-5				7		X	/	/	d	
	860	-8				8		X	/	/	d	
	861	JB75526-1		ABNJTC20+		9		X	/	/	d	PERKIO 2x
	862	-2				10		X	/	/	d	
	863	JB75581-1		ABSL		11		/	/	/	d	
	864	-2				12		/	/	/	d	
	865	JB75564-12		ABNJTC20+		13		X	/	/	d	
	866	-3				14		X	/	/	d	
	867	-4				15		X	/	/	d	
	868	-7				16		X	/	/	d	
	869	-9				17		X	/	/	d	

TX = Matrix. Designate W for water, S for soil, O for oil. L+ = Library Search. IS = Internal Standard Area. SU = Surrogate.

Sample volume/weight used and final volumes refer to extraction log.

13

All strikeouts must be initialed, dated and reason code applied as follows:

= reviewer correction error; 2 = transcription error; 3 = computer miscalculation; 4 = analyst's correction error

Form: OR015-05

Rev. Date: 1/16/2006



Batch ID: EP3796

Analyst Signature: AWD

Standard Data		
Lot #	Description	Conc.
	<i>See page 13</i>	

Method 8270/6/5

Initial Cal. Method MP3770

Injection Volume: 100.

Supervisor Signature: [Signature]

Date: 5/10/74

[illegible]

[TX = Matrix. Designate W for water, S for soil, O for oil. L₊ = Library Search. IS = Internal Standard Area. SU = Surrogate.

sample volume/weight used and final volumes refer to extraction log.

15

All strikeouts must be initialed, dated and reason code applied as follows:

= reviewer correction error; 2 = transcription error; 3 = computer miscalculation; 4 = analyst's correction error

Form: OR015-05

ev. Date: 1/16/2006

Batch ID: EE471 page 1

Date: 0-26-19

Analyst Signature: AK

[illegible]

Standard Data		
Lot #	Description	Conc.
SWHWA 21	DETPP	Sop pr
Ch2433	F.S.	400ppm
DL944	DM /HW	

Columns: 7'5" V 30mx, 25' h mx - 25' h m

Method 8270/625

Initial Cal. Method MZ 4677

Injection Volume: 1.0 ml

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: 

Date: 8-27-14

[illegible]

TX = Matrix. Designate W for water, S for soil, O for oil. L+ = Library Search. IS = Internal Standard Area. SU = Surrogate.

sample volume/weight used and final volumes refer to extraction log.

II strikeouts must be initialed, dated and reason code applied as follows:

=reviewer correction error; 2 = transcription error; 3 = computer miscalculation; 4 = analyst's correction error

rm: OR015-05

y. Date: 1/16/2006

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ite: 8-26-14

Analyst Signature: AK

Standard Data		
Lot #	Description	Conc.

Standard Data		
Lot #	Description	Conc.
SV11114-11	DFTPP	50ppm
Ch2473	I.S.	1100ppm
D1444	DM / Hw	

Columns: ZB-W 30mx. 25mm V. 25um

Method 820/625

Initial Cal. Method MZ4671 AR 8/29/14

Injection Volume: 1.0ul

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: OA

Date: 8-27-14

Data File	Sample ID	Ext. Batch	Test	M T X	ALS #	Dilution n.	L +	I S	S U	Status (Data)	Comments
294845	<u>4711</u> <u>icv4712</u> 100		<u>TCL42</u>	<u>W</u>	<u>15</u>					<u>OK</u>	<u>AR 8/26/14</u> <u>not using</u> <u>100% fail</u> <u>SV11114 19/19A</u>
846	<u>ME 8/29/14</u> <u>-80</u>				<u>16</u>					<u>OK</u>	<u>119b</u>
847	<u>-80</u>				<u>17</u>					<u>OK</u>	<u>119c</u>
848	<u>-25</u>				<u>18</u>					<u>OK</u>	<u>119d</u>
849	<u>-10</u>				<u>19</u>					<u>OK</u>	<u>119e</u>
850	<u>-5</u>				<u>20</u>					<u>OK</u>	<u>119f</u>
851	<u>-2</u>				<u>21</u>					<u>OK</u>	<u>119g</u>
852	<u>-1</u>				<u>22</u>					<u>OK</u>	<u>119h</u>
853	<u>DFTPP</u>				<u>1</u>					<u>OK</u>	<u>AR 8/27/14</u> <u>10:35pm</u> <u>100% fail</u> <u>SV11114 19/19A</u>
854	<u>icv4711-50</u>		<u>acid</u>		<u>23</u>					<u>OK</u>	<u>119i</u>
855	<u>icv4711-50</u>		<u>DNI</u>		<u>24</u>					<u>OK</u>	<u>119j</u>
856	<u>icv4711-50</u>		<u>BN 2</u>		<u>25</u>					<u>OK</u>	<u>119k</u>
857	<u>icv4711-50</u>		<u>ABN SRR</u>		<u>26</u>					<u>OK</u>	<u>119l</u>
858	<u>icv4711-50</u>		<u>Benz</u>		<u>27</u>					<u>OK</u>	<u>119m</u>
859	<u>icv4711-50</u>		<u>HQ</u>		<u>28</u>					<u>OK</u>	<u>119n</u>
860	<u>icv4711-50</u>		<u>aniline</u>		<u>29</u>					<u>OK</u>	<u>119o</u>

= Matrix. Designate W for water, S for soil, O for oil. L+ = Library Search. IS = Internal Standard Area. SU = Surrogate.

le volume/weight used and final volumes refer to extraction log.

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rikeouts must be initialed, dated and reason code applied as follows:

viewer correction error; 2 = transcription error; 3 = computer miscalculation; 4 = analyst's correction error

OR015-05

late: 1/16/2006



ACCUTEST.

SEMI-VOLATILE by GCMS ANALYSIS LOG

Batch ID: EZ4712

Date:

8-26-14

Analyst Signature: AK

Standard Data

Standard Data

Lot #	Description	Conc.

Lot #	Description	Conc.
SVI11114-4	DFTPP	50ppm
CK2432	I.S.	4000ppm
D4444	DM/HW	

Columns: 2x30 30mx. 25mm V. 25um

Method 8200/625

Initial Cal. Method MT 4671 OR 8271 m
4711

Injection Volume: 1.0ul

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: OK

Date: 8-27-14

Data File	Sample ID	Ext. Batch	Test	M T X	ALS #	Dilutio n.	L +	I S	S U	Status (Data)	Comments
~~845~~	~~icv4711-100~~		~~TEL42~~	~~6~~	~~15~~					~~OK~~	~~AR 8/26/14~~
846	icv4711-80				16					OK	not using 4046 for SVI11114-4
847	-80				17					OK	119b
848	-28				18					OK	119c
849	-10				19					OK	119d
850	-5				20					OK	119e
851	-2				21					OK	119f
852	-1				22					OK	119g
853	DFTPP				1					OK	119h
854	icv4711-50		acid		23					OK	AR 8/27/14
855	icv4711-50		DNI		24					OK	10:35pm
856	icv4711-50		DN2		25					OK	01/41214-70
857	icv4711-50		ABN SRR		26					OK	484
858	icv4711-50		Benz:		27					OK	493
859	icv4711-50		HQ		28					OK	116
860	icv4711-50		anilines		29					OK	54B
										OK	76
										OK	1:21 AM 38
										OK	1.2 8-27-14

TX = Matrix. Designate W for water, S for soil, O for oil. L+ = Library Search. IS = Internal Standard Area. SU = Surrogate.

Sample volume/weight used and final volumes refer to extraction log.

167

Strikeouts must be initialed, dated and reason code applied as follows:

1 = reviewer correction error; 2 = transcription error; 3 = computer miscalculation; 4 = analyst's correction error

Form: OR015-05

Rev. Date: 1/16/2006



ACCUTEST.

SEMI-VOLATILE by GCMS ANALYSIS LOG

Batch ID: EZ4729

Date: 9/8/14

Analyst Signature: SW

Standard Data

Standard Data

Columns: ZBSV5msi30m x 0.25mm x 0.25

Method 8270/625

Initial Cal. Method MZ4711

Injection Volume: 1uL

Lot #	Description	Conc.

Lot #	Description	Conc.
SN14149176	DFTPP	50ppm
-114	BNF	25ppm
-112	TCL42	25ppm
CL2723	I.S	4000ppm
D2108	DCM (HW)	—

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: JS

Date: 9-9-14

R	Data File	Sample ID	Ext. Batch	Test	M T X	ALS #	Dilution n.	L +	I S	S U	Status (Data)	Comments
	295245	DFTPP			W	1					OK	7:44 pm
	246	CC4711-25				2					OK	#48 needed ↓ BNF only acids ↓ 246-metronaphenol ↓
	247	CC4711-25				3					OK	
	248	hccpd verif.				4					OK	SN14149185
	249	OP77800-HB	77800	AP0270	S	5		+	✓	✓	OK	
	250	-PSI				6			✓	✓	NA	needs better cov
	251	-MS				7			✓	✓	NA	needs better cov
	252	-MSD				8			✓	✓	NA	↓
	253	JB75804-1		PAH		9			✓	✓	OK	vt=5 mL
	254	-2				10			✓	✓	OK	vt=5 mL
	255	-3				11			✓	↑	OK	vt=5 mL NA 1:5
	256	-4				12			✓	✓	OK	vt=5 mL
	257	-5				13			✓	✓	OK	NA 1:2
	258	JB75802-2		PAH		14			↓	✓	PR	PR For CFI
	259	-4				15			↓	✓	PR	PR For CFI
	260	-7				16			✓	✓	OK	2:27 am

TX = Matrix. Designate W for water, S for soil, O for oil. L+ = Library Search. IS = Internal Standard Area. ST = Surrogate.

Sample volume/weight used and final volumes refer to extraction log.

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All strikeouts must be initialed, dated and reason code applied as follows:

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Form: OR015-05

Rev. Date: 1/16/2006

EXT-SO

ABN Extraction Log - Solids

BATCH #
0977866RACK #
B-4

Date started: 9/18/14
 Date finished: 9/18/14
 Time started: 11am
 Time finished: 3:20pm

EXTRACTION METHOD: (Check one):

Microwave SW3546

Sonication SW3550C ✓

Waste Dil. SW3580A

Soxhlet SW3540C

Sample #	Analysis Type	Sample Bottle #	Sample Description	Sample Wet Wt. (g)	Microwave ID	Decant	Final Extract	Comments
						Y	N	
JB 75844-1	MS	1	Soil	31.6		✓		Black 5
JB 75844-2	MSD	1	Soil	32.0		✓		Black 5
JB 75844-3	MS							
JB 75844-4	MSD							
JB 75844-5	MS							
JB 75844-6	MSD							
JB 75844-7	MS							
JB 75844-8	MSD							
JB 75844-9	MS							
JB 75844-10	MSD							
JB 75844-11	MS							
JB 75844-12	MSD							
JB 75844-13	MS							
JB 75844-14	MSD							
JB 75844-15	MS							
JB 75844-16	MSD							
JB 75844-17	MS							
JB 75844-18	MSD							
JB 75844-19	MS							
JB 75844-20	MSD							
JB 75844-21	MS							
JB 75844-22	MSD							
JB 75844-23	MS							
JB 75844-24	MSD							
JB 75844-25	MS							
JB 75844-26	MSD							
JB 75844-27	MS							
JB 75844-28	MSD							
JB 75844-29	MS							
JB 75844-30	MSD							
JB 75844-31	MS							
JB 75844-32	MSD							
JB 75844-33	MS							
JB 75844-34	MSD							
JB 75844-35	MS							
JB 75844-36	MSD							
JB 75844-37	MS							
JB 75844-38	MSD							
JB 75844-39	MS							
JB 75844-40	MSD							
JB 75844-41	MS							
JB 75844-42	MSD							
JB 75844-43	MS							
JB 75844-44	MSD							
JB 75844-45	MS							
JB 75844-46	MSD							
JB 75844-47	MS							
JB 75844-48	MSD							
JB 75844-49	MS							
JB 75844-50	MSD							
JB 75844-51	MS							
JB 75844-52	MSD							
JB 75844-53	MS							
JB 75844-54	MSD							
JB 75844-55	MS							
JB 75844-56	MSD							
JB 75844-57	MS							
JB 75844-58	MSD							
JB 75844-59	MS							
JB 75844-60	MSD							
JB 75844-61	MS							
JB 75844-62	MSD							
JB 75844-63	MS							
JB 75844-64	MSD							
JB 75844-65	MS							
JB 75844-66	MSD							
JB 75844-67	MS							
JB 75844-68	MSD							
JB 75844-69	MS							
JB 75844-70	MSD							
JB 75844-71	MS							
JB 75844-72	MSD							
JB 75844-73	MS							
JB 75844-74	MSD							
JB 75844-75	MS							
JB 75844-76	MSD							
JB 75844-77	MS							
JB 75844-78	MSD							
JB 75844-79	MS							
JB 75844-80	MSD							
JB 75844-81	MS							
JB 75844-82	MSD							
JB 75844-83	MS							
JB 75844-84	MSD							
JB 75844-85	MS							
JB 75844-86	MSD							
JB 75844-87	MS							
JB 75844-88	MSD							
JB 75844-89	MS							
JB 75844-90	MSD							
JB 75844-91	MS							
JB 75844-92	MSD							
JB 75844-93	MS							
JB 75844-94	MSD							
JB 75844-95	MS							
JB 75844-96	MSD							
JB 75844-97	MS							
JB 75844-98	MSD							
JB 75844-99	MS							
JB 75844-100	MSD							

Comments: * final extract vial 6 of 5ml due to poor sample matrix

TH019A-01
 Date: 04/09/13

See back for instructions

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BATCH # MS 77878 RACK# B-11

EXT-AQ

Acid Base/Neutrals Extraction Log - Liquid

Date Started: 9/8/14 Time Started: 15:06
Date Finished: 9/8/14 Time Finished: 23:30

EXTRACT METHOD (check one): Sep Funnel SW 3510C / EPA 625 Cont Liq-Liq SW3520C

Sample #	Analysis Type	Sample Bottle #	pH	Sample Description	Sample Volume (ml) Oil Wt (g)	pH Adjust (ml)		Final Extract		Misc.	Comments
						H2SO4 <2	NaOH >11	Color	Vol (ml)	GPC Cleanup	
MB	AN			DH2O	1000	1	4	Clear	1		
BS 1				DH2O	100	1	4	Yellow	1		
JB75561-2 MS		2		Yellow	500	1	4	Yellow	1		
1 MSD		2		Yellow	500	1	4	Yellow	1		
BS 12 AN		3		DH2O	1000	1	4	Clear	1		
JB75561-3 MS		3		Clear	500	1	4	Yellow	1		
1 MSD		3		Clear	500	1	4	Yellow	1		
JB75561-1		1		Clear	1000	1	4	Clear	1		
2		1		Clear	1000	1	4	Clear	1		
JB75561-2		1		Yellow	1000	1	4	Yellow	1		
3		1		Yellow	900	1	4	Yellow	1		
4		2		Yellow	1000	1	4	Yellow	1		
5		2		Yellow	1000	1	4	Yellow	1		
6		2		Yellow	1000	1	4	Yellow	1		
7		2		Yellow	1000	1	4	Yellow	1		
8		2		Yellow	1000	1	4	Yellow	1		
9		2		Yellow	1000	1	4	Yellow	1		
10		2		Yellow	1000	1	4	Yellow	1		
11		2		Yellow	1000	1	4	Yellow	1		
12		2		Yellow	1000	1	4	Yellow	1		
13		2		Yellow	1000	1	4	Yellow	1		
14		2		Yellow	1000	1	4	Yellow	1		
15		2		Yellow	1000	1	4	Yellow	1		
16		2		Yellow	1000	1	4	Yellow	1		
17		2		Yellow	1000	1	4	Yellow	1		
18		2		Yellow	1000	1	4	Yellow	1		
19		2		Yellow	1000	1	4	Yellow	1		
20		2		Yellow	1000	1	4	Yellow	1		
JB75561-1		1		Clear	850	1	4	Clear	1		
2		1		Clear	850	1	4	Clear	1		
JB75561-2		2		Clear	850	1	4	Clear	1		
3		2		Clear	850	1	4	Clear	1		
4		2		Clear	850	1	4	Clear	1		
5		2		Clear	850	1	4	Clear	1		
6		2		Clear	850	1	4	Clear	1		
7		2		Clear	850	1	4	Clear	1		
8		2		Clear	850	1	4	Clear	1		
9		2		Clear	850	1	4	Clear	1		
10		2		Clear	850	1	4	Clear	1		
11		2		Clear	850	1	4	Clear	1		
12		2		Clear	850	1	4	Clear	1		
13		2		Clear	850	1	4	Clear	1		
14		2		Clear	850	1	4	Clear	1		
15		2		Clear	850	1	4	Clear	1		
16		2		Clear	850	1	4	Clear	1		
17		2		Clear	850	1	4	Clear	1		
18		2		Clear	850	1	4	Clear	1		
19		2		Clear	850	1	4	Clear	1		
20		2		Clear	850	1	4	Clear	1		

COMMENTS:

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See back for instructions

General Chemistry

QC Data Summaries

Includes the following where applicable:

- Percent Solids Raw Data Summary

Percent Solids Raw Data Summary

Page 1 of 1

Job Number: JB75844

Account: LANGAN Langan Engineering & Environmental

Project: Carroll Gardens, 363-365 Bond Street, Brooklyn, NY

Sample: JB75844-1 **Analyzed:** 08-SEP-14 by BM **Method:** SM2540 G-97
ClientID: 470-UST-7-PE-1

Wet Weight (Total)	29.65	g
Tare Weight	21.88	g
Dry Weight (Total)	28.53	g
Solids, Percent	85.6	%

Sample: JB75844-2 **Analyzed:** 08-SEP-14 by BM **Method:** SM2540 G-97
ClientID: 471-UST-7-PE-2

Wet Weight (Total)	26.59	g
Tare Weight	19.39	g
Dry Weight (Total)	25.76	g
Solids, Percent	88.5	%

Sample: JB75844-3 **Analyzed:** 08-SEP-14 by BM **Method:** SM2540 G-97
ClientID: 472-UST-7-PE-3

Wet Weight (Total)	35.34	g
Tare Weight	29.16	g
Dry Weight (Total)	34.24	g
Solids, Percent	82.2	%

Sample: JB75844-4 **Analyzed:** 08-SEP-14 by BM **Method:** SM2540 G-97
ClientID: 473-UST-7-PE-4

Wet Weight (Total)	27.71	g
Tare Weight	19.35	g
Dry Weight (Total)	25.87	g
Solids, Percent	78	%

Sample: JB75844-5 **Analyzed:** 08-SEP-14 by BM **Method:** SM2540 G-97
ClientID: 474-UST-7-PE-5

Wet Weight (Total)	36.73	g
Tare Weight	27.43	g
Dry Weight (Total)	34.99	g
Solids, Percent	81.3	%

10.1
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Misc. Raw Data

Raw Data

Methanol Prep Log

Page 1 of 1

Vial Track #:	Lims ID:	Initial Tare Wt (g)	Total Wt (g)	Weight of Sample (g)	Date Prepared	Lot #:	Prep By	Vial Desc:	Comments
9/5/2014-1294	JB75844-1.3	32.3100	37.3100	5.0000	9/6/2014 9:15:58 AM	dk010	rd	5ml MeOH	
9/5/2014-994	JB75844-1.4	34.1400	39.6100	5.4700	9/6/2014 9:16:07 AM	di	rd	DI water	
9/5/2014-995	JB75844-1.5	34.1300	39.6300	5.5000	9/6/2014 9:16:14 AM	di	rd	DI water	
9/5/2014-1295	JB75844-2.3	32.5100	37.7700	5.2600	9/6/2014 9:16:21 AM	dk010	rd	5ml MeOH	
9/5/2014-996	JB75844-2.4	34.0700	38.9500	4.8800	9/6/2014 9:16:30 AM	di	rd	DI water	
9/5/2014-997	JB75844-2.5	34.1500	39.3200	5.1700	9/6/2014 9:16:38 AM	di	rd	DI water	
9/5/2014-1296	JB75844-3.3	32.6900	37.5000	4.8100	9/6/2014 9:16:45 AM	dk010	rd	5ml MeOH	
9/5/2014-998	JB75844-3.4	34.0700	38.2200	4.1500	9/6/2014 9:16:51 AM	di	rd	DI water	
9/5/2014-999	JB75844-3.5	34.1700	38.8100	4.6400	9/6/2014 9:17:00 AM	di	rd	DI water	
9/5/2014-1297	JB75844-4.3	32.4300	37.0100	4.5800	9/6/2014 9:17:09 AM	dk010	rd	5ml MeOH	
9/5/2014-1000	JB75844-4.4	33.9400	38.4100	4.4700	9/6/2014 9:17:15 AM	di	rd	DI water	
9/5/2014-1001	JB75844-4.5	34.0600	38.6800	4.6200	9/6/2014 9:17:24 AM	di	rd	DI water	
9/5/2014-1298	JB75844-5.3	32.6600	37.4900	4.8300	9/6/2014 9:17:33 AM	dk010	rd	5ml MeOH	
9/5/2014-1002	JB75844-5.4	34.3800	38.9700	4.5900	9/6/2014 9:17:39 AM	di	rd	DI water	
9/5/2014-1003	JB75844-5.5	34.2800	39.7000	5.4200	9/6/2014 9:17:47 AM	di	rd	DI water	