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TestAmerica Laboratories, Inc.

ANALYTICAL REPORT

PROJECT NO. 184380

ExxonMobil SRU ICR - M0010

Lot #: H1G190403

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TESTAMERICA LABORATORIES, INC.



Kevin S. Woodcock
Project Manager

August 9, 2011

ANALYTICAL METHODS SUMMARY

H1G190403

PARAMETER	ANALYTICAL METHOD
PAHs & Selected SVOCs by HRGC/LRMS	KNOX ID-0016
Semivolatile Organic Compounds by GC/MS	SW846 8270C

References:

KNOX	TestAmerica Laboratories Inc., Knoxville Laboratory Standard Operating Procedure
SW846	"Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 and its updates.

SAMPLE SUMMARY

H1G190403

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
MK09P	001	EXM-SRU-M0010-R1-COMBINED	07/07/11	
MK09Q	002	EXM-SRU-M0010-R2-COMBINED	07/08/11	
MK09R	003	EXM-SRU-M0010-R3-COMBINED	07/08/11	
MK09T	004	EXM-SRU-M0010-RGTBLK-COMBINED	07/08/11	
MK09V	005	A-6486, A-6487 MEDIA CHECK	07/07/11	

NOTE (S) :

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

PROJECT NARRATIVE H1G190403

The results reported herein are applicable to the samples submitted for analysis only. If you have any questions about this report, please call (865) 291-3000 to speak with the TestAmerica project manager listed on the cover page.

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The original chain of custody documentation is included with this report.

Sample Receipt

There were no problems with the condition of the samples received.

Quality Control and Data Interpretation

Unless otherwise noted, all holding times and QC criteria were met and the test results shown in this report meet all applicable NELAC requirements.

Semivolatiles

The semivolatile organic sampling train components were extracted and analyzed using TestAmerica Knoxville standard operating procedures KNOX-OP-0009 and KNOX-MS-0016, based on the following methods:

- SW-846 3542, "Extraction of Semivolatile Analytes Collected Using Method 0010 (Modified Method 5 Sampling Train)"
- SW-846 8270C, "Semivolatile Organic Compounds by Gas Chromatography/ Mass Spectrometry (GC/MS)".

The sampling trains are prepared as one analytical fraction: The particulate filter and front half of the filter holder, nozzle and probe solvent rinses, XAD-2 resin trap and back half of the filter holder, coil condenser and connecting glassware solvent rinses are combined as a single sample.

The combined sample components are spiked with the method 8270C surrogates and Soxhlet extracted with methylene chloride. The extracts are concentrated to 1 mL and analyzed by GCMS.

Sample results were calculated using the following equation:

$$\text{Result, ug} = (\text{On column concentration, ng/uL}) \times \left(\frac{\text{Volume final extract, uL}}{1 \text{ Sample}} \right) \times \left(\frac{1 \text{ ug}}{1000 \text{ ng}} \right) \times \text{DF} \times \text{SF}$$

TestAmerica Knoxville maintains the following certifications, approvals and accreditations: Arkansas DEQ Lab #88-0688, California ELAP Cert. #2423, Colorado DPHE, Connecticut DPH Lab #PH-0223, DoD ELAP Cert. #ADE-1434, Florida DOH Lab #E87177, Georgia DNR Lab #906, Hawaii DOH, Indiana DOH Lab #C-TN-02, Iowa DNR Lab #375, Kansas DHE Cert. #E-10349, Kentucky EEC Lab #90101, Louisiana DEQ AI# 83979 Cert. #03079, Louisiana DOHH, Maryland DOE Cert #277, Michigan DNRE Lab #9933, Minnesota DOH ELAP Lab #047-999-429, Nevada DEP Lab #TN00009, New Jersey DEP Lab #TN001, New York DOH Lab #10781, North Carolina DHHS Lab #21705, North Carolina DENR Cert. #64, Ohio EPA VAP Lab #CL0059, Oklahoma DEQ Lab #9415, Pennsylvania DEP Lab #68-00576, South Carolina DHEC Cert #84001001, Tennessee DEC Lab #02014, Texas CEQ, Utah DOH Lab # QUAN3, Virginia DGS Lab #00165, Washington DOE Lab #C593, West Virginia DEP Cert. #345, West Virginia DHHR Cert #9955C, Wisconsin DNR Lab #998044300, and USDA Soil Permit #P330-11-00035. This list of approvals is subject to change and does not imply that laboratory certification is available for all parameters reported in this environmental sample data report.

EM-BTRF-000623

PROJECT NARRATIVE

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Where: DF = Bench Dilution Factor
SF = Extraction Split Factor

The dilution factor reported on the sample result form represents a combination of factors (such as dilution, sample weight/volume adjustment, split ratio, etc.) used to adjust the reporting limits and method detection limits.

On review of the data, it was noticed that the peaks identified by the data system for benz(a)anthracene and pyrene exhibited very slight retention time shifts. Although both the retention time and the spectra comparison to the library are within the SOP acceptance criteria, further NIST library searches indicated that non target analytes with similar mass spectra may have caused false positive results for these analytes. A terphenyl isomer contains the same mass ions and ratios as pyrene, and triphenylene exhibits the same spectral profile as benz(a)anthracene. Additionally, the SIM PAH analysis was evaluated and, although benz(a)anthracene and pyrene were within the SOP retention time acceptance limits, it was noticed that these analytes also exhibited slight retention time shifts. Similar retention time shifts were not observed in the laboratory control samples. These analytes have been flagged with "CI" to indicate that although they met the qualitative criteria of the method, there is reason to suspect these may be false positives.

SIM PAH

General Comments:

The labeled internal standards added prior to extraction serve both as a measure of extraction efficiency and as a measure of cleanup recovery.

Semivolatile Organic Sampling Train Preparation and Analysis

The semivolatile organic sampling train components were extracted and analyzed using TestAmerica Knoxville standard operating procedures KNOX-OP-0009 and KNOX-ID-0016, based on the following methods:

- SW-846 3542, "Extraction of Semivolatile Analytes Collected Using Method 0010 (Modified Method 5 Sampling Train)"
- Method 429 - Determination of Polycyclic Aromatic Hydrocarbon (PAH) emissions from Stationary Sources, California Environmental Protection Agency Air Resources Board, Adopted: September 12, 1989, Amended: July 28, 1997.

The sampling trains are prepared as two analytical fractions and the extracts from these fractions are combined into a single sample for analysis. The first fraction consists of the particulate filter and the XAD-2 resin trap. The second fraction includes the condensate, impinger contents and their related glassware solvent rinses, as well as the front half and back half solvent rinses.

The filters and XAD components are spiked with SIM PAH internal standards and the components are Soxhlet extracted with methylene chloride. The condensates are spiked with

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an alternate surrogate and extracted using a continuous liquid-liquid extractor. The extracts are concentrated to 0.5 mL and analyzed by GCMS.

Sample results were calculated using the following equation:

$$\text{Result, ng} = (\text{On column conc, ug/mL}) \times \left(\frac{\text{Vol final extract, uL}}{1 \text{ Sample}} \right) \times \left(\frac{1 \text{ mL}}{1000 \text{ uL}} \right) \times \left(\frac{1000 \text{ ng}}{1 \text{ ug}} \right) \times \text{DF} \times \text{SF}$$

Where: DF = Bench Dilution Factor
SF = Extraction Split Factor

*If the entire sample is not extracted, the fractional amount of sample used is entered into the above equation.

Sampling surrogates Fluorene-d₁₀, 13C₆-Fluorene & Terphenyl-d₁₄ are added to the XAD by the laboratory prior to sampling. Their results appear with the "Internal Standard" percent recovery results.

The dilution factor reported on the sample result form represents a combination of factors (such as dilution, sample weight/volume adjustment, split ratio, etc.) used to adjust the reporting limits and method detection limits.

All QC criteria were met with the following exceptions:

On review of the data, it was noticed that the peaks identified by the data system for chrysene and pyrene exhibited very slight retention time shifts. The retention times are within the SOP acceptance criteria. The 8270 full-scan analysis was evaluated and it was noticed that these analytes also exhibited slight retention time shifts. Further NIST library searches indicated that non target analytes with similar mass spectra may have caused false positive results for these analytes. A terphenyl isomer contains the same mass ions and ratios as pyrene, and triphenylene exhibits the same spectral profile as chrysene. Similar retention time shifts were not observed in the laboratory control samples. These analytes have been flagged with "CI" to indicate that although they met the qualitative criteria of the method, there is reason to suspect these may be false positives.

All extracts in the batch had internal standard recovery for benzo(a)anthracene-d₁₂ that exceeded QC limits (including the blank, LCS and LCSD). Also, samples EXM-SRU-M0010-R1-COMBINED and EXM-SRU-M0010-R2-COMBINED had internal standard recovery for benzo(b)fluoranthene-d₁₂ outside QC limits. As indicated by the referenced method, isotope dilution techniques produce results that are independent of internal standard recovery. The affected internal standards are flagged on the final result forms.

Samples EXM-SRU-M0010-R1-COMBINED, EXM-SRU-M0010-R2-COMBINED, and EXM-SRU-M0010-R3-COMBINED had concentrations of several compounds that exceeded the calibration level of the instrument. The samples were analyzed at a dilution to bring the compound concentrations within the instrument calibration range. The reporting limits have been adjusted accordingly.

QC DATA ASSOCIATION SUMMARY

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Sample Preparation and Analysis Control Numbers

<u>SAMPLE#</u>	<u>MATRIX</u>	<u>ANALYTICAL METHOD</u>	<u>LEACH BATCH #</u>	<u>PREP BATCH #</u>	<u>MS RUN#</u>
001	AIR	SW846 8270C		1201076	
	AIR	KNOX ID-0016		1201079	
002	AIR	SW846 8270C		1201076	
	AIR	KNOX ID-0016		1201079	
003	AIR	SW846 8270C		1201076	
	AIR	KNOX ID-0016		1201079	
004	AIR	SW846 8270C		1201076	
	AIR	KNOX ID-0016		1201079	
005	AIR	SW846 8270C		1201076	
	AIR	KNOX ID-0016		1201079	

Sample Data Summary

TRC Environmental Corporation

Client Sample ID: EXM-SRU-M0010-R1-COMBINED

GC/MS Semivolatiles

Lot-Sample #....: H1G190403-001 Work Order #....: MK09P1AA Matrix.....: AIR
 Date Sampled....: 07/07/11 Date Received...: 07/19/11
 Prep Date.....: 07/20/11 Analysis Date...: 07/27/11
 Prep Batch #....: 1201076
 Dilution Factor: 2 Method.....: SW846 8270C

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acenaphthene	ND	20	ug	5.4
Acenaphthylene	ND	20	ug	5.6
Aniline	ND	20	ug	17
Anthracene	ND	20	ug	6.4
Benz(a)anthracene	17 J, CI	20	ug	6.2
Benzidine	ND	200	ug	120
Benzo(b)fluoranthene	ND	20	ug	8.2
Benzo(k)fluoranthene	ND	20	ug	9.8
Benzo(ghi)perylene	ND	20	ug	6.4
Benzo(a)pyrene	ND	20	ug	7.6
Benzo(e)pyrene	ND	20	ug	1.7
Biphenyl	12 J	20	ug	2.0
Chrysene	ND	20	ug	6.2
Cresols (total)	ND	20	ug	16
Dibenz(a,h)anthracene	ND	20	ug	6.0
Dibenzofuran	ND	20	ug	5.6
Dibenzo(a,e)pyrene	ND	20	ug	1.4
3,3'-Dimethoxybenzidine	ND	200	ug	28
p-Dimethylaminoazobenzene	ND	20	ug	4.8
7,12-Dimethylbenz(a)- anthracene	ND	20	ug	7.0
3,3'-Dimethylbenzidine	ND	200	ug	36
alpha,alpha-Dimethylphenethyla mine	ND	50	ug	17
2,4-Dimethylphenol	ND	20	ug	13
Fluoranthene	ND	20	ug	7.2
Fluorene	ND	20	ug	6.0
Indeno(1,2,3-cd)pyrene	ND	20	ug	6.2
Isophorone	ND	20	ug	5.6
3-Methylcholanthrene	ND	20	ug	7.6
2-Methylnaphthalene	ND	20	ug	5.8
Naphthalene	22	20	ug	6.2
Nitrobenzene	ND	20	ug	5.8
Perylene	ND	20	ug	1.5
Phenanthrene	6.6 J	20	ug	6.0
Phenol	7.9 J	20	ug	6.2
1,4-Phenylenediamine	ND	200	ug	50
Pyrene	11 J, CI	20	ug	7.0
o-Toluidine	ND	20	ug	5.6

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TRC Environmental Corporation

Client Sample ID: EXM-SRU-M0010-R1-COMBINED

GC/MS Semivolatiles

Lot-Sample #....: H1G190403-001 Work Order #....: MK09P1AA Matrix.....: AIR

SURROGATE	PERCENT	RECOVERY
	RECOVERY	LIMITS
2-Fluorophenol	67	(22 - 105)
Phenol-d5	87	(48 - 118)
Nitrobenzene-d5	74	(43 - 110)
2-Fluorobiphenyl	72	(48 - 111)
2,4,6-Tribromophenol	95	(34 - 125)

NOTE(S):

J Estimated result. Result is less than RL.

CI See narrative.

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Client Sample ID: EXM-SRU-M0010-R2-COMBINED

GC/MS Semivolatiles

Lot-Sample #....: H1G190403-002 Work Order #....: MK09Q1AA Matrix.....: AIR
 Date Sampled....: 07/08/11 Date Received...: 07/19/11
 Prep Date.....: 07/20/11 Analysis Date...: 07/27/11
 Prep Batch #....: 1201076
 Dilution Factor: 2 Method.....: SW846 8270C

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Acenaphthene	ND	20	ug	5.4
Acenaphthylene	ND	20	ug	5.6
Aniline	ND	20	ug	17
Anthracene	ND	20	ug	6.4
Benz(a)anthracene	17 J,CI	20	ug	6.2
Benzydine	ND	200	ug	120
Benzo(b)fluoranthene	ND	20	ug	8.2
Benzo(k)fluoranthene	ND	20	ug	9.8
Benzo(ghi)perylene	ND	20	ug	6.4
Benzo(a)pyrene	ND	20	ug	7.6
Benzo(e)pyrene	ND	20	ug	1.7
Biphenyl	8.3 J	20	ug	2.0
Chrysene	ND	20	ug	6.2
Cresols (total)	ND	20	ug	16
Dibenz(a,h)anthracene	ND	20	ug	6.0
Dibenzofuran	ND	20	ug	5.6
Dibenzo(a,e)pyrene	ND	20	ug	1.4
3,3'-Dimethoxybenzidine	ND	200	ug	28
p-Dimethylaminoazobenzene	ND	20	ug	4.8
7,12-Dimethylbenz(a)-anthracene	ND	20	ug	7.0
3,3'-Dimethylbenzidine	ND	200	ug	36
alpha,alpha-Dimethylphenethylamine	ND	50	ug	17
2,4-Dimethylphenol	ND	20	ug	13
Fluoranthene	ND	20	ug	7.2
Fluorene	ND	20	ug	6.0
Indeno(1,2,3-cd)pyrene	ND	20	ug	6.2
Isophorone	ND	20	ug	5.6
3-Methylcholanthrene	ND	20	ug	7.6
2-Methylnaphthalene	ND	20	ug	5.8
Naphthalene	11 J	20	ug	6.2
Nitrobenzene	ND	20	ug	5.8
Perylene	ND	20	ug	1.5
Phenanthrene	7.2 J	20	ug	6.0
Phenol	ND	20	ug	6.2
1,4-Phenylenediamine	ND	200	ug	50
Pyrene	11 J,CI	20	ug	7.0
o-Toluidine	ND	20	ug	5.6

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TRC Environmental Corporation

Client Sample ID: EXM-SRU-M0010-R2-COMBINED

GC/MS Semivolatiles

Lot-Sample #...: H1G190403-002 Work Order #...: MK09Q1AA Matrix.....: AIR

<u>SURROGATE</u>	PERCENT	RECOVERY
	<u>RECOVERY</u>	<u>LIMITS</u>
2-Fluorophenol	67	(22 - 105)
Phenol-d5	90	(48 - 118)
Nitrobenzene-d5	75	(43 - 110)
2-Fluorobiphenyl	80	(48 - 111)
2,4,6-Tribromophenol	74	(34 - 125)

NOTE(S) :

J Estimated result. Result is less than RL.

CI See narrative.

TRC Environmental Corporation

Client Sample ID: EXM-SRU-M0010-R3-COMBINED

GC/MS Semivolatiles

Lot-Sample #...: H1G190403-003 Work Order #...: MK09R1AA Matrix.....: AIR
 Date Sampled...: 07/08/11 Date Received...: 07/19/11
 Prep Date.....: 07/20/11 Analysis Date...: 07/27/11
 Prep Batch #...: 1201076
 Dilution Factor: 2 Method.....: SW846 8270C

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Acenaphthene	ND	20	ug	5.4
Acenaphthylene	ND	20	ug	5.6
Aniline	ND	20	ug	17
Anthracene	ND	20	ug	6.4
Benz (a) anthracene	20 CI	20	ug	6.2
Benzidine	ND	200	ug	120
Benzo (b) fluoranthene	ND	20	ug	8.2
Benzo (k) fluoranthene	ND	20	ug	9.8
Benzo (ghi) perylene	ND	20	ug	6.4
Benzo (a) pyrene	ND	20	ug	7.6
Benzo (e) pyrene	ND	20	ug	1.7
Biphenyl	8.5 J	20	ug	2.0
Chrysene	ND	20	ug	6.2
Cresols (total)	ND	20	ug	16
Dibenz (a,h) anthracene	ND	20	ug	6.0
Dibenzofuran	ND	20	ug	5.6
Dibenzo (a,e) pyrene	ND	20	ug	1.4
3,3'-Dimethoxybenzidine	ND	200	ug	28
p-Dimethylaminoazobenzene	ND	20	ug	4.8
7,12-Dimethylbenz (a) - anthracene	ND	20	ug	7.0
3,3'-Dimethylbenzidine	ND	200	ug	36
alpha, alpha-Dimethylphenethyla mine	ND	50	ug	17
2,4-Dimethylphenol	ND	20	ug	13
Fluoranthene	ND	20	ug	7.2
Fluorene	ND	20	ug	6.0
Indeno (1,2,3-cd) pyrene	ND	20	ug	6.2
Isophorone	ND	20	ug	5.6
3-Methylcholanthrene	ND	20	ug	7.6
2-Methylnaphthalene	ND	20	ug	5.8
Naphthalene	14 J	20	ug	6.2
Nitrobenzene	ND	20	ug	5.8
Perylene	ND	20	ug	1.5
Phenanthrene	8.2 J	20	ug	6.0
Phenol	ND	20	ug	6.2
1,4-Phenylenediamine	ND	200	ug	50
Pyrene	12 J, CI	20	ug	7.0
o-Toluidine	ND	20	ug	5.6

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TRC Environmental Corporation

Client Sample ID: EXM-SRU-M0010-R3-COMBINED

GC/MS Semivolatiles

Lot-Sample #...: H1G190403-003 Work Order #...: MK09R1AA Matrix.....: AIR

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
2-Fluorophenol	52	(22 - 105)
Phenol-d5	82	(48 - 118)
Nitrobenzene-d5	71	(43 - 110)
2-Fluorobiphenyl	73	(48 - 111)
2,4,6-Tribromophenol	71	(34 - 125)

NOTE(S) :

CI See narrative.

J Estimated result. Result is less than RL.

TRC Environmental Corporation

Client Sample ID: EXM-SRU-M0010-RGTBLK-COMBINED

GC/MS Semivolatiles

Lot-Sample #...: H1G190403-004 Work Order #...: MK09T1AA Matrix.....: AIR
 Date Sampled...: 07/08/11 Date Received...: 07/19/11
 Prep Date.....: 07/20/11 Analysis Date...: 07/27/11
 Prep Batch #...: 1201076
 Dilution Factor: 2 Method.....: SW846 8270C

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acenaphthene	ND	20	ug	5.4
Acenaphthylene	ND	20	ug	5.6
Aniline	ND	20	ug	17
Anthracene	ND	20	ug	6.4
Benz(a)anthracene	ND	20	ug	6.2
Benzidine	ND	200	ug	120
Benzo(b)fluoranthene	ND	20	ug	8.2
Benzo(k)fluoranthene	ND	20	ug	9.8
Benzo(ghi)perylene	ND	20	ug	6.4
Benzo(a)pyrene	ND	20	ug	7.6
Benzo(e)pyrene	ND	20	ug	1.7
Biphenyl	ND	20	ug	2.0
Chrysene	ND	20	ug	6.2
Cresols (total)	ND	20	ug	16
Dibenz(a,h)anthracene	ND	20	ug	6.0
Dibenzofuran	ND	20	ug	5.6
Dibenzo(a,e)pyrene	ND	20	ug	1.4
3,3'-Dimethoxybenzidine	ND	200	ug	28
p-Dimethylaminoazobenzene	ND	20	ug	4.8
7,12-Dimethylbenz(a)-anthracene	ND	20	ug	7.0
3,3'-Dimethylbenzidine	ND	200	ug	36
alpha,alpha-Dimethylphenethylamine	ND	50	ug	17
2,4-Dimethylphenol	ND	20	ug	13
Fluoranthene	ND	20	ug	7.2
Fluorene	ND	20	ug	6.0
Indeno(1,2,3-cd)pyrene	ND	20	ug	6.2
Isophorone	ND	20	ug	5.6
3-Methylcholanthrene	ND	20	ug	7.6
2-Methylnaphthalene	ND	20	ug	5.8
Naphthalene	ND	20	ug	6.2
Nitrobenzene	ND	20	ug	5.8
Perylene	ND	20	ug	1.5
Phenanthrene	ND	20	ug	6.0
Phenol	ND	20	ug	6.2
1,4-Phenylenediamine	ND	200	ug	50
Pyrene	ND	20	ug	7.0
o-Toluidine	ND	20	ug	5.6

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TRC Environmental Corporation

Client Sample ID: EXM-SRU-M0010-RGTBLK-COMBINED

GC/MS Semivolatiles

Lot-Sample #...: H1G190403-004 Work Order #...: MK09T1AA Matrix.....: AIR

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
2-Fluorophenol	58	(22 - 105)
Phenol-d5	79	(48 - 118)
Nitrobenzene-d5	73	(43 - 110)
2-Fluorobiphenyl	76	(48 - 111)
2,4,6-Tribromophenol	75	(34 - 125)

TRC Environmental Corporation

Client Sample ID: A-6486,A-6487 MEDIA CHECK

GC/MS Semivolatiles

Lot-Sample #....: H1G190403-005 Work Order #....: MK09V1AA Matrix.....: AIR
 Date Sampled....: 07/07/11 Date Received...: 07/19/11
 Prep Date.....: 07/20/11 Analysis Date...: 07/27/11
 Prep Batch #....: 1201076
 Dilution Factor: 2 Method.....: SW846 8270C

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Acenaphthene	ND	20	ug	5.4
Acenaphthylene	ND	20	ug	5.6
Aniline	ND	20	ug	17
Anthracene	ND	20	ug	6.4
Benz (a) anthracene	ND	20	ug	6.2
Benidine	ND	200	ug	120
Benzo (b) fluoranthene	ND	20	ug	8.2
Benzo (k) fluoranthene	ND	20	ug	9.8
Benzo (ghi) perylene	ND	20	ug	6.4
Benzo (a) pyrene	ND	20	ug	7.6
Benzo (e) pyrene	ND	20	ug	1.7
Biphenyl	ND	20	ug	2.0
Chrysene	ND	20	ug	6.2
Cresols (total)	ND	20	ug	16
Dibenz (a,h) anthracene	ND	20	ug	6.0
Dibenzofuran	ND	20	ug	5.6
Dibenzo (a,e) pyrene	ND	20	ug	1.4
3,3'-Dimethoxybenzidine	ND	200	ug	28
p-Dimethylaminoazobenzene	ND	20	ug	4.8
7,12-Dimethylbenz (a) - anthracene	ND	20	ug	7.0
3,3'-Dimethylbenzidine	ND	200	ug	36
alpha, alpha-Dimethylphenethyla mine	ND	50	ug	17
2,4-Dimethylphenol	ND	20	ug	13
Fluoranthene	ND	20	ug	7.2
Fluorene	ND	20	ug	6.0
Indeno (1,2,3-cd) pyrene	ND	20	ug	6.2
Isophorone	ND	20	ug	5.6
3-Methylcholanthrene	ND	20	ug	7.6
2-Methylnaphthalene	ND	20	ug	5.8
Naphthalene	ND	20	ug	6.2
Nitrobenzene	ND	20	ug	5.8
Perylene	ND	20	ug	1.5
Phenanthrene	ND	20	ug	6.0
Phenol	ND	20	ug	6.2
1,4-Phenylenediamine	ND	200	ug	50
Pyrene	ND	20	ug	7.0
o-Toluidine	ND	20	ug	5.6

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TRC Environmental Corporation

Client Sample ID: A-6486,A-6487 MEDIA CHECK

GC/MS Semivolatiles

Lot-Sample #...: H1G190403-005 Work Order #...: MK09V1AA Matrix.....: AIR

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
2-Fluorophenol	82	(22 - 105)
Phenol-d5	89	(48 - 118)
Nitrobenzene-d5	80	(43 - 110)
2-Fluorobiphenyl	82	(48 - 111)
2,4,6-Tribromophenol	85	(34 - 125)

METHOD BLANK REPORT

GC/MS Semivolatiles

Client Lot #...: H1G190403
 MB Lot-Sample #: H1G200000-076

Work Order #...: MK2DQ1AA

Matrix.....: AIR

Analysis Date...: 07/27/11

Prep Date.....: 07/20/11

Dilution Factor: 2

Prep Batch #...: 1201076

PARAMETER	RESULT	REPORTING			METHOD
		LIMIT	UNITS		
Acenaphthene	ND	20	ug		SW846 8270C
Acenaphthylene	ND	20	ug		SW846 8270C
Aniline	ND	20	ug		SW846 8270C
Anthracene	ND	20	ug		SW846 8270C
Benz(a)anthracene	ND	20	ug		SW846 8270C
Benzidine	ND	200	ug		SW846 8270C
Benzo(b)fluoranthene	ND	20	ug		SW846 8270C
Benzo(k)fluoranthene	ND	20	ug		SW846 8270C
Benzo(ghi)perylene	ND	20	ug		SW846 8270C
Benzo(a)pyrene	ND	20	ug		SW846 8270C
Benzo(e)pyrene	ND	20	ug		SW846 8270C
Biphenyl	ND	20	ug		SW846 8270C
Chrysene	ND	20	ug		SW846 8270C
Cresols (total)	ND	20	ug		SW846 8270C
Dibenz(a,h)anthracene	ND	20	ug		SW846 8270C
Dibenzofuran	ND	20	ug		SW846 8270C
Dibenzo(a,e)pyrene	ND	20	ug		SW846 8270C
3,3'-Dimethoxybenzidine	ND	200	ug		SW846 8270C
p-Dimethylaminoazobenzene	ND	20	ug		SW846 8270C
7,12-Dimethylbenz(a) - anthracene	ND	20	ug		SW846 8270C
3,3'-Dimethylbenzidine	ND	200	ug		SW846 8270C
alpha,alpha-Dimethylphene	ND	50	ug		SW846 8270C
2,4-Dimethylphenol	ND	20	ug		SW846 8270C
Fluoranthene	ND	20	ug		SW846 8270C
Fluorene	ND	20	ug		SW846 8270C
Indeno(1,2,3-cd)pyrene	ND	20	ug		SW846 8270C
Isophorone	ND	20	ug		SW846 8270C
3-Methylcholanthrene	ND	20	ug		SW846 8270C
2-Methylnaphthalene	ND	20	ug		SW846 8270C
Naphthalene	ND	20	ug		SW846 8270C
Nitrobenzene	ND	20	ug		SW846 8270C
Perylene	ND	20	ug		SW846 8270C
Phenanthrene	ND	20	ug		SW846 8270C
Phenol	ND	20	ug		SW846 8270C
1,4-Phenylenediamine	ND	200	ug		SW846 8270C
Pyrene	ND	20	ug		SW846 8270C
o-Toluidine	ND	20	ug		SW846 8270C

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METHOD BLANK REPORT

GC/MS Semivolatiles

Client Lot #...: H1G190403

Work Order #...: MK2DQ1AA

Matrix.....: AIR

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	METHOD
SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS		
2-Fluorophenol	63	(22 - 105)		
Phenol-d5	85	(48 - 118)		
Nitrobenzene-d5	85	(43 - 110)		
2-Fluorobiphenyl	86	(48 - 111)		
2,4,6-Tribromophenol	67	(34 - 125)		

NOTE (S) :

 Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: H1G190403 Work Order #...: MK2DQ1AC-LCS Matrix.....: AIR
 LCS Lot-Sample#: H1G200000-076 MK2DQ1AD-LCSD
 Prep Date.....: 07/20/11 Analysis Date...: 07/27/11
 Prep Batch #...: 1201076
 Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Acenaphthene	91	(63 - 107)			SW846 8270C
	94	(63 - 107)	2.9	(0-36)	SW846 8270C
Acenaphthylene	94	(64 - 112)			SW846 8270C
	96	(64 - 112)	1.9	(0-36)	SW846 8270C
Aniline	93	(48 - 109)			SW846 8270C
	96	(48 - 109)	2.8	(0-50)	SW846 8270C
Anthracene	94	(59 - 114)			SW846 8270C
	96	(59 - 114)	1.9	(0-36)	SW846 8270C
Benz (a) anthracene	98	(50 - 130)			SW846 8270C
	102	(50 - 130)	4.0	(0-50)	SW846 8270C
Benzidine	86	(10 - 150)			SW846 8270C
	91	(10 - 150)	6.2	(0-50)	SW846 8270C
Benzo (b) fluoranthene	109	(63 - 122)			SW846 8270C
	110	(63 - 122)	0.91	(0-50)	SW846 8270C
Benzo (k) fluoranthene	92	(69 - 118)			SW846 8270C
	90	(69 - 118)	2.1	(0-50)	SW846 8270C
Benzo (ghi) perylene	99	(71 - 122)			SW846 8270C
	97	(71 - 122)	1.5	(0-50)	SW846 8270C
Benzo (a) pyrene	93	(67 - 122)			SW846 8270C
	92	(67 - 122)	0.54	(0-50)	SW846 8270C
Benzo (e) pyrene	102	(50 - 130)			SW846 8270C
	102	(50 - 130)	0.0	(0-50)	SW846 8270C
Biphenyl	85	(50 - 130)			SW846 8270C
	87	(50 - 130)	2.2	(0-50)	SW846 8270C
Chrysene	93	(67 - 114)			SW846 8270C
	97	(67 - 114)	4.1	(0-41)	SW846 8270C
Cresols (total)	97	(50 - 130)			SW846 8270C
	100	(50 - 130)	3.0	(0-50)	SW846 8270C
Dibenz (a, h) anthracene	97	(67 - 122)			SW846 8270C
	98	(67 - 122)	0.92	(0-50)	SW846 8270C
Dibenzofuran	95	(60 - 108)			SW846 8270C
	96	(60 - 108)	1.2	(0-37)	SW846 8270C
Dibenzo (a, e) pyrene	93	(50 - 130)			SW846 8270C
	95	(50 - 130)	1.4	(0-50)	SW846 8270C
3,3'-Dimethoxybenzidine	104	(30 - 130)			SW846 8270C
	112	(30 - 130)	7.4	(0-50)	SW846 8270C
p-Dimethylaminoazobenzene	103	(50 - 130)			SW846 8270C
	107	(50 - 130)	3.8	(0-50)	SW846 8270C
7,12-Dimethylbenz (a) - anthracene	68	(50 - 130)			SW846 8270C
	70	(50 - 130)	4.2	(0-50)	SW846 8270C

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EM-BTRF-000640

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: H1G190403 Work Order #...: MK2DQ1AC-LCS Matrix.....: AIR
 LCS Lot-Sample#: H1G200000-076 MK2DQ1AD-LCSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
3,3'-Dimethylbenzidine	107	(30 - 130)			SW846 8270C
	116	(30 - 130)	8.1	(0-50)	SW846 8270C
alpha,alpha-Dimethylphenet	69	(30 - 130)			SW846 8270C
	71	(30 - 130)	3.6	(0-50)	SW846 8270C
2,4-Dimethylphenol	92	(10 - 125)			SW846 8270C
	94	(10 - 125)	2.4	(0-41)	SW846 8270C
Fluoranthene	104	(55 - 120)			SW846 8270C
	106	(55 - 120)	1.9	(0-34)	SW846 8270C
Fluorene	95	(64 - 114)			SW846 8270C
	98	(64 - 114)	2.3	(0-36)	SW846 8270C
Indeno(1,2,3-cd)pyrene	102	(72 - 126)			SW846 8270C
	102	(72 - 126)	0.0	(0-50)	SW846 8270C
Isophorone	94	(56 - 111)			SW846 8270C
	94	(56 - 111)	0.42	(0-37)	SW846 8270C
3-Methylcholanthrene	89	(50 - 130)			SW846 8270C
	90	(50 - 130)	0.44	(0-30)	SW846 8270C
2-Methylnaphthalene	96	(56 - 111)			SW846 8270C
	96	(56 - 111)	0.62	(0-38)	SW846 8270C
Naphthalene	88	(59 - 104)			SW846 8270C
	88	(59 - 104)	0.56	(0-38)	SW846 8270C
Nitrobenzene	88	(58 - 109)			SW846 8270C
	89	(58 - 109)	1.2	(0-38)	SW846 8270C
Perylene	100	(50 - 130)			SW846 8270C
	99	(50 - 130)	1.3	(0-50)	SW846 8270C
Phenanthrene	92	(58 - 109)			SW846 8270C
	94	(58 - 109)	1.6	(0-35)	SW846 8270C
Phenol	94	(54 - 114)			SW846 8270C
	93	(54 - 114)	0.64	(0-39)	SW846 8270C
1,4-Phenylenediamine	22	(5.0- 130)			SW846 8270C
	26	(5.0- 130)	17	(0-50)	SW846 8270C
Pyrene	96	(76 - 118)			SW846 8270C
	101	(76 - 118)	5.4	(0-41)	SW846 8270C
o-Toluidine	96	(30 - 130)			SW846 8270C
	99	(30 - 130)	3.4	(0-50)	SW846 8270C

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	67	(22 - 105)
	63	(22 - 105)
Phenol-d5	89	(48 - 118)
	90	(48 - 118)
Nitrobenzene-d5	85	(43 - 110)
	89	(43 - 110)
2-Fluorobiphenyl	86	(48 - 111)

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EM-BTRF-000641

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: H1G190403 Work Order #...: MK2DQ1AC-LCS Matrix.....: AIR
LCS Lot-Sample#: H1G200000-076 MK2DQ1AD-LCSD

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
	88	(48 - 111)
2,4,6-Tribromophenol	83	(34 - 125)
	85	(34 - 125)

NOTE (S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Semivolatiles

Client Lot #...: H1G190403 Work Order #...: MK2DQ1AC-LCS Matrix.....: AIR
 LCS Lot-Sample#: H1G200000-076 MK2DQ1AD-LCSD
 Prep Date.....: 07/20/11 Analysis Date...: 07/27/11
 Prep Batch #...: 1201076
 Dilution Factor: 1

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
Acenaphthene	100	90.8	ug	91		SW846 8270C
	100	93.5	ug	94	2.9	SW846 8270C
Acenaphthylene	100	94.1	ug	94		SW846 8270C
	100	95.9	ug	96	1.9	SW846 8270C
Aniline	100	93.0	ug	93		SW846 8270C
	100	95.6	ug	96	2.8	SW846 8270C
Anthracene	100	94.3	ug	94		SW846 8270C
	100	96.1	ug	96	1.9	SW846 8270C
Benz (a) anthracene	100	98.0	ug	98		SW846 8270C
	100	102	ug	102	4.0	SW846 8270C
Benzidine	200	171	ug	86		SW846 8270C
	200	182	ug	91	6.2	SW846 8270C
Benzo (b) fluoranthene	100	109	ug	109		SW846 8270C
	100	110	ug	110	0.91	SW846 8270C
Benzo (k) fluoranthene	100	91.8	ug	92		SW846 8270C
	100	89.9	ug	90	2.1	SW846 8270C
Benzo (ghi) perylene	100	98.8	ug	99		SW846 8270C
	100	97.3	ug	97	1.5	SW846 8270C
Benzo (a) pyrene	100	92.7	ug	93		SW846 8270C
	100	92.2	ug	92	0.54	SW846 8270C
Benzo (e) pyrene	100	102	ug	102		SW846 8270C
	100	102	ug	102	0.0	SW846 8270C
Biphenyl	100	84.8	ug	85		SW846 8270C
	100	86.7	ug	87	2.2	SW846 8270C
Chrysene	100	93.4	ug	93		SW846 8270C
	100	97.3	ug	97	4.1	SW846 8270C
Cresols (total)	200	194	ug	97		SW846 8270C
	200	200	ug	100	3.0	SW846 8270C
Dibenz (a,h) anthracene	100	96.6	ug	97		SW846 8270C
	100	97.5	ug	98	0.92	SW846 8270C
Dibenzofuran	100	94.7	ug	95		SW846 8270C
	100	95.9	ug	96	1.2	SW846 8270C
Dibenzo (a,e) pyrene	100	93.3	ug	93		SW846 8270C
	100	94.6	ug	95	1.4	SW846 8270C
3,3'-Dimethoxybenzidine	100	104	ug	104		SW846 8270C
	100	112	ug	112	7.4	SW846 8270C
p-Dimethylaminoazobenzene	100	103	ug	103		SW846 8270C
	100	107	ug	107	3.8	SW846 8270C
7,12-Dimethylbenz (a) - anthracene	100	67.6	ug	68		SW846 8270C
	100	70.5	ug	70	4.2	SW846 8270C

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 EM-BTRF-000643

LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Semivolatiles

Client Lot #...: H1G190403 Work Order #...: MK2DQ1AC-LCS Matrix.....: AIR
 LCS Lot-Sample#: H1G200000-076 MK2DQ1AD-LCSD

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
3,3'-Dimethylbenzidine	100	107	ug	107		SW846 8270C
	100	116	ug	116	8.1	SW846 8270C
alpha,alpha-Dimethylphenet	100	68.7	ug	69		SW846 8270C
	100	71.2	ug	71	3.6	SW846 8270C
2,4-Dimethylphenol	100	92.2	ug	92		SW846 8270C
	100	94.4	ug	94	2.4	SW846 8270C
Fluoranthene	100	104	ug	104		SW846 8270C
	100	106	ug	106	1.9	SW846 8270C
Fluorene	100	95.4	ug	95		SW846 8270C
	100	97.6	ug	98	2.3	SW846 8270C
Indeno(1,2,3-cd)pyrene	100	102	ug	102		SW846 8270C
	100	102	ug	102	0.0	SW846 8270C
Isophorone	100	93.5	ug	94		SW846 8270C
	100	93.9	ug	94	0.42	SW846 8270C
3-Methylcholanthrene	100	89.4	ug	89		SW846 8270C
	100	89.8	ug	90	0.44	SW846 8270C
2-Methylnaphthalene	100	95.9	ug	96		SW846 8270C
	100	96.5	ug	96	0.62	SW846 8270C
Naphthalene	100	88.2	ug	88		SW846 8270C
	100	87.7	ug	88	0.56	SW846 8270C
Nitrobenzene	100	88.2	ug	88		SW846 8270C
	100	89.3	ug	89	1.2	SW846 8270C
Perylene	100	100	ug	100		SW846 8270C
	100	98.7	ug	99	1.3	SW846 8270C
Phenanthrene	100	92.2	ug	92		SW846 8270C
	100	93.7	ug	94	1.6	SW846 8270C
Phenol	100	93.9	ug	94		SW846 8270C
	100	93.3	ug	93	0.64	SW846 8270C
1,4-Phenylenediamine	100	22.3	ug	22		SW846 8270C
	100	26.4	ug	26	17	SW846 8270C
Pyrene	100	95.7	ug	96		SW846 8270C
	100	101	ug	101	5.4	SW846 8270C
o-Toluidine	100	95.7	ug	96		SW846 8270C
	100	99.0	ug	99	3.4	SW846 8270C

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	67	(22 - 105)
	63	(22 - 105)
Phenol-d5	89	(48 - 118)
	90	(48 - 118)
Nitrobenzene-d5	85	(43 - 110)
	89	(43 - 110)
2-Fluorobiphenyl	86	(48 - 111)

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EM-BTRF-000644

LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Semivolatiles

Client Lot #...: H1G190403 Work Order #...: MK2DQ1AC-LCS Matrix.....: AIR
LCS Lot-Sample#: H1G200000-076 MK2DQ1AD-LCSD

<u>SURROGATE</u>	PERCENT	RECOVERY
	<u>RECOVERY</u>	<u>LIMITS</u>
	88	(48 - 111)
2,4,6-Tribromophenol	83	(34 - 125)
	85	(34 - 125)

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

Sample Data Summary

TRC Environmental Corporation

Client Sample ID: EXM-SRU-M0010-R1-COMBINED

GC/MS Semivolatiles

Lot-Sample #...: H1G190403-001 Work Order #...: MK09P1AC Matrix.....: AIR
 Date Sampled...: 07/07/11 Date Received...: 07/19/2011
 Prep Date.....: 07/20/11 Analysis Date...: 07/29/2011
 Prep Batch #...: 1201079
 Dilution Factor: 2 Method.....: KNOX ID-0016

REPORTING				
PARAMETER	RESULT	LIMIT	UNITS	MDL
Acenaphthene	280	40	ng/sample	9.8
Acenaphthylene	32 J	40	ng/sample	4.8
Anthracene	150	20	ng/sample	7.6
Benzo (a) anthracene	ND	20	ng/sample	7.6
Benzo (b) fluoranthene	67 J	200	ng/sample	60
Benzo (k) fluoranthene	ND	200	ng/sample	86
Benzo (ghi) perylene	31	20	ng/sample	10
Benzo (a) pyrene	28	20	ng/sample	5.8
Benzo (e) pyrene	130	20	ng/sample	11
Chrysene	12000 E, CI	20	ng/sample	5.0
Dibenz (a, h) anthracene	10 J	20	ng/sample	7.8
Fluoranthene	530	20	ng/sample	13
Fluorene	2200	20	ng/sample	8.2
Indeno (1, 2, 3-cd) pyrene	13 J	20	ng/sample	5.2
2-Methylnaphthalene	1500	100	ng/sample	42
Naphthalene	16000 E	800	ng/sample	500
Perylene	20	20	ng/sample	6.2
Phenanthrene	6700 E	60	ng/sample	48
Pyrene	4300 CI	120	ng/sample	72

Internal Standard	PERCENT	RECOVERY
	RECOVERY	LIMITS
Fluorene d-10	108	(50 - 150)
Terphenyl-d14	133	(50 - 150)
13C6-Fluorene	96	(50 - 150)
Anthracene-d10	98	(30 - 120)
Naphthalene-d8	57	(30 - 120)
2-Methylnaphthalene-d10	86	(30 - 120)
1-Methylnaphthalene-d10	79	(30 - 120)
Acenaphthylene-d8	110	(30 - 120)
Phenanthrene-d10	82	(30 - 120)
2, 6-Dimethylnaphthalene-d12	97	(30 - 120)
Fluoranthene-d10	99	(30 - 120)
Benzo (a) anthracene-d12	154 *	(30 - 120)
Chrysene-d12	81	(30 - 120)
Benzo (b) fluoranthene-d12	121 *	(30 - 120)
Benzo (k) fluoranthene-d12	80	(30 - 120)
Benzo (a) pyrene-d12	109	(30 - 120)
Perylene-d12	98	(30 - 120)
Indeno (1, 2, 3-cd) pyrene-d12	107	(30 - 120)
Dibenz (ah) anthracene-d14	103	(30 - 120)
Benzo (ghi) perylene-d12	97	(30 - 120)

TRC Environmental Corporation

Client Sample ID: EXM-SRU-M0010-R1-COMBINED

GC/MS Semivolatiles

Lot-Sample #...: H1G190403-001 Work Order #...: MK09P1AC Matrix.....: AIR

NOTE(S) :

1 13C6-Anthracene = 83 %

* Surrogate recovery is outside stated control limits.

CI See narrative.

E Estimated result. Result concentration exceeds the calibration range.

J Estimated result. Result is less than RL.

TRC Environmental Corporation

Client Sample ID: EXM-SRU-M0010-R1-COMBINED

GC/MS Semivolatiles

Lot-Sample #...: H1G190403-001 Work Order #...: MK09P2AC Matrix.....: AIR
 Date Sampled...: 07/07/11 Date Received...: 07/19/2011
 Prep Date.....: 07/20/11 Analysis Date...: 08/03/2011
 Prep Batch #...: 1201079
 Dilution Factor: 14 Method.....: KNOX ID-0016

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Chrysene	18000 D,CI	140	ng/sample	35
Naphthalene	30000 D	5600	ng/sample	3500
Phenanthrene	8000 D	420	ng/sample	340
Internal Standard		PERCENT RECOVERY	RECOVERY LIMITS	
Naphthalene-d8	80		(30 - 120)	
Phenanthrene-d10	86		(30 - 120)	
Chrysene-d12	92		(30 - 120)	

NOTE(S):

 CI See narrative.

D Result was obtained from the analysis of a dilution.

TRC Environmental Corporation

Client Sample ID: EXM-SRU-M0010-R2-COMBINED

GC/MS Semivolatiles

Lot-Sample #...: H1G190403-002 Work Order #...: MK09Q1AC Matrix.....: AIR
 Date Sampled...: 07/08/11 Date Received...: 07/19/2011
 Prep Date.....: 07/20/11 Analysis Date...: 07/29/2011
 Prep Batch #...: 1201079
 Dilution Factor: 2 Method.....: KNOX ID-0016

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Acenaphthene	230	40	ng/sample	9.8
Acenaphthylene	17 J	40	ng/sample	4.8
Anthracene	130	20	ng/sample	7.6
Benzo(a)anthracene	ND	20	ng/sample	7.6
Benzo(b)fluoranthene	ND	200	ng/sample	60
Benzo(k)fluoranthene	ND	200	ng/sample	86
Benzo(ghi)perylene	21	20	ng/sample	10
Benzo(a)pyrene	21	20	ng/sample	5.8
Benzo(e)pyrene	110	20	ng/sample	11
Chrysene	13000 E,CI	20	ng/sample	5.0
Dibenz(a,h)anthracene	9.1 J	20	ng/sample	7.8
Fluoranthene	470	20	ng/sample	13
Fluorene	2000	20	ng/sample	8.2
Indeno(1,2,3-cd)pyrene	7.6 J	20	ng/sample	5.2
2-Methylnaphthalene	880	100	ng/sample	42
Naphthalene	10000 E	800	ng/sample	500
Perylene	15 J	20	ng/sample	6.2
Phenanthrene	7200 E	60	ng/sample	48
Pyrene	4100 CI	120	ng/sample	72

Internal Standard	PERCENT RECOVERY	RECOVERY LIMITS
Fluorene d-10	104	(50 - 150)
Terphenyl-d14	129	(50 - 150)
13C6-Fluorene	94	(50 - 150)
Anthracene-d10	103	(30 - 120)
Naphthalene-d8	79	(30 - 120)
2-Methylnaphthalene-d10	93	(30 - 120)
1-Methylnaphthalene-d10	88	(30 - 120)
Acenaphthylene-d8	117	(30 - 120)
Phenanthrene-d10	86	(30 - 120)
2, 6-Dimethylnaphthalene-d12	104	(30 - 120)
Fluoranthene-d10	102	(30 - 120)
Benzo (a) anthracene-d12	154 *	(30 - 120)
Chrysene-d12	81	(30 - 120)
Benzo (b) fluoranthene-d12	121 *	(30 - 120)
Benzo (k) fluoranthene-d12	80	(30 - 120)
Benzo (a) pyrene-d12	111	(30 - 120)
Perylene-d12	98	(30 - 120)
Indeno (1, 2, 3-cd) pyrene-d12	107	(30 - 120)
Dibenz (ah) anthracene-d14	104	(30 - 120)
Benzo (ghi) perylene-d12	97	(30 - 120)

TRC Environmental Corporation

Client Sample ID: EXM-SRU-M0010-R2-COMBINED

GC/MS Semivolatiles

Lot-Sample #...: H1G190403-002 Work Order #...: MK09Q1AC Matrix.....: AIR

NOTE(S) :

1 13C6-Anthracene = 87 %

* Surrogate recovery is outside stated control limits.

CI See narrative.

E Estimated result. Result concentration exceeds the calibration range.

J Estimated result. Result is less than RL.

TRC Environmental Corporation

Client Sample ID: EXM-SRU-M0010-R2-COMBINED

GC/MS Semivolatiles

Lot-Sample #...: H1G190403-002 Work Order #...: MK09Q2AC Matrix.....: AIR
 Date Sampled...: 07/08/11 Date Received...: 07/19/2011
 Prep Date.....: 07/20/11 Analysis Date...: 08/03/2011
 Prep Batch #...: 1201079
 Dilution Factor: 10 Method.....: KNOX ID-0016

PARAMETER	RESULT	REPORTING		MDL
		LIMIT	UNITS	
Chrysene	18000 D,CI	100	ng/sample	25
Naphthalene	14000 D	4000	ng/sample	2500
Phenanthrene	9100 D	300	ng/sample	240
Internal Standard		PERCENT RECOVERY	RECOVERY LIMITS	
Naphthalene-d8	86		(30 - 120)	
Phenanthrene-d10	88		(30 - 120)	
Chrysene-d12	88		(30 - 120)	

NOTE(S) :

 CI See narrative.

D Result was obtained from the analysis of a dilution.

TRC Environmental Corporation

Client Sample ID: EXM-SRU-M0010-R3-COMBINED

GC/MS Semivolatiles

Lot-Sample #...: H1G190403-003 Work Order #...: MK09R1AC Matrix.....: AIR
 Date Sampled...: 07/08/11 Date Received...: 07/19/2011
 Prep Date.....: 07/20/11 Analysis Date...: 07/29/2011
 Prep Batch #...: 1201079
 Dilution Factor: 2 Method.....: KNOX ID-0016

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Acenaphthene	260	40	ng/sample	9.8
Acenaphthylene	18 J	40	ng/sample	4.8
Anthracene	180	20	ng/sample	7.6
Benzo (a) anthracene	ND	20	ng/sample	7.6
Benzo (b) fluoranthene	72 J	200	ng/sample	60
Benzo (k) fluoranthene	ND	200	ng/sample	86
Benzo (ghi) perylene	25	20	ng/sample	10
Benzo (a) pyrene	34	20	ng/sample	5.8
Benzo (e) pyrene	140	20	ng/sample	11
Chrysene	16000 E, CI	20	ng/sample	5.0
Dibenz (a,h) anthracene	15 J	20	ng/sample	7.8
Fluoranthene	620	20	ng/sample	13
Fluorene	2300	20	ng/sample	8.2
Indeno (1,2,3-cd) pyrene	12 J	20	ng/sample	5.2
2-Methylnaphthalene	1000	100	ng/sample	42
Naphthalene	15000 E	800	ng/sample	500
Perylene	22	20	ng/sample	6.2
Phenanthrene	8600 E	60	ng/sample	48
Pyrene	5200 E, CI	120	ng/sample	72

Internal Standard	PERCENT RECOVERY		RECOVERY LIMITS
Fluorene d-10	112		(50 - 150)
Terphenyl-d14	147		(50 - 150)
13C6-Fluorene	100		(50 - 150)
Anthracene-d10	96		(30 - 120)
Naphthalene-d8	58		(30 - 120)
2-Methylnaphthalene-d10	85		(30 - 120)
1-Methylnaphthalene-d10	79		(30 - 120)
Acenaphthylene-d8	111		(30 - 120)
Phenanthrene-d10	80		(30 - 120)
2,6-Dimethylnaphthalene-d12	97		(30 - 120)
Fluoranthene-d10	94		(30 - 120)
Benzo (a) anthracene-d12	145 *		(30 - 120)
Chrysene-d12	77		(30 - 120)
Benzo (b) fluoranthene-d12	114		(30 - 120)
Benzo (k) fluoranthene-d12	75		(30 - 120)
Benzo (a) pyrene-d12	107		(30 - 120)
Perylene-d12	95		(30 - 120)
Indeno (1,2,3-cd) pyrene-d12	100		(30 - 120)
Dibenz (ah) anthracene-d14	98		(30 - 120)
Benzo (ghi) perylene-d12	91		(30 - 120)

TRC Environmental Corporation

Client Sample ID: EXM-SRU-M0010-R3-COMBINED

GC/MS Semivolatiles

Lot-Sample #...: H1G190403-003 Work Order #...: MK09R1AC Matrix.....: AIR

NOTE(S) :

1 13C6-Anthracene = 87 %

* Surrogate recovery is outside stated control limits.

CI See narrative.

E Estimated result. Result concentration exceeds the calibration range.

J Estimated result. Result is less than RL.

TRC Environmental Corporation

Client Sample ID: EXM-SRU-M0010-R3-COMBINED

GC/MS Semivolatiles

Lot-Sample #...: H1G190403-003 Work Order #...: MK09R2AC Matrix.....: AIR
 Date Sampled...: 07/08/11 Date Received...: 07/19/2011
 Prep Date.....: 07/20/11 Analysis Date...: 08/03/2011
 Prep Batch #...: 1201079
 Dilution Factor: 10 Method.....: KNOX ID-0016

PARAMETER	RESULT	REPORTING		MDL
		LIMIT	UNITS	
Chrysene	24000 D,CI	100	ng/sample	25
Naphthalene	19000 D	4000	ng/sample	2500
Phenanthrene	11000 D	300	ng/sample	240
Pyrene	9200 D,CI	600	ng/sample	360
Internal Standard		PERCENT RECOVERY	RECOVERY LIMITS	
Naphthalene-d8		80	(30 - 120)	
Phenanthrene-d10		82	(30 - 120)	
Fluoranthene-d10		96	(30 - 120)	
Chrysene-d12		83	(30 - 120)	

NOTE(S) :

 CI See narrative.

D Result was obtained from the analysis of a dilution.

TRC Environmental Corporation

Client Sample ID: EXM-SRU-M0010-RGTBLK-COMBINED

GC/MS Semivolatiles

Lot-Sample #...: H1G190403-004 Work Order #...: MK09T1AC Matrix.....: AIR
 Date Sampled...: 07/08/11 Date Received...: 07/19/2011
 Prep Date.....: 07/20/11 Analysis Date...: 07/29/2011
 Prep Batch #...: 1201079
 Dilution Factor: 2 Method.....: KNOX ID-0016

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Acenaphthene	ND	40	ng/sample	9.8
Acenaphthylene	ND	40	ng/sample	4.8
Anthracene	ND	20	ng/sample	7.6
Benzo(a)anthracene	ND	20	ng/sample	7.6
Benzo(b)fluoranthene	ND	200	ng/sample	60
Benzo(k)fluoranthene	ND	200	ng/sample	86
Benzo(ghi)perylene	ND	20	ng/sample	10
Benzo(a)pyrene	ND	20	ng/sample	5.8
Benzo(e)pyrene	ND	20	ng/sample	11
Chrysene	ND	20	ng/sample	5.0
Dibenz(a,h)anthracene	ND	20	ng/sample	7.8
Fluoranthene	ND	20	ng/sample	13
Fluorene	ND	20	ng/sample	8.2
Indeno(1,2,3-cd)pyrene	ND	20	ng/sample	5.2
2-Methylnaphthalene	ND	100	ng/sample	42
Naphthalene	ND	800	ng/sample	500
Perylene	ND	20	ng/sample	6.2
Phenanthrene	ND	60	ng/sample	48
Pyrene	ND	120	ng/sample	72

Internal Standard	PERCENT RECOVERY		RECOVERY LIMITS
Fluorene d-10	105		(50 - 150)
Terphenyl-d14	116		(50 - 150)
13C6-Fluorene	98		(50 - 150)
Anthracene-d10	97		(30 - 120)
Naphthalene-d8	77		(30 - 120)
2-Methylnaphthalene-d10	95		(30 - 120)
1-Methylnaphthalene-d10	92		(30 - 120)
Acenaphthylene-d8	112		(30 - 120)
Phenanthrene-d10	82		(30 - 120)
2,6-Dimethylnaphthalene-d12	97		(30 - 120)
Fluoranthene-d10	102		(30 - 120)
Benzo(a)anthracene-d12	147 *		(30 - 120)
Chrysene-d12	91		(30 - 120)
Benzo(b)fluoranthene-d12	117		(30 - 120)
Benzo(k)fluoranthene-d12	81		(30 - 120)
Benzo(a)pyrene-d12	111		(30 - 120)
Perylene-d12	100		(30 - 120)
Indeno(1,2,3-cd)pyrene-d12	106		(30 - 120)
Dibenz(ah)anthracene-d14	104		(30 - 120)
Benzo(ghi)perylene-d12	98		(30 - 120)

TRC Environmental Corporation

Client Sample ID: EXM-SRU-M0010-RGTBLK-COMBINED

GC/MS Semivolatiles

Lot-Sample #...: H1G190403-004 Work Order #...: MK09T1AC Matrix.....: AIR

NOTE(S):

1 13C6-Anthracene = 82 %

* Surrogate recovery is outside stated control limits.

TRC Environmental Corporation

Client Sample ID: A-6486,A-6487 MEDIA CHECK

GC/MS Semivolatiles

Lot-Sample #...: H1G190403-005 Work Order #...: MK09V1AC Matrix.....: AIR
 Date Sampled...: 07/07/11 Date Received...: 07/19/2011
 Prep Date.....: 07/20/11 Analysis Date...: 07/29/2011
 Prep Batch #...: 1201079
 Dilution Factor: 2 Method.....: KNOX ID-0016

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Acenaphthene	ND	40	ng/sample	9.8
Acenaphthylene	ND	40	ng/sample	4.8
Anthracene	ND	20	ng/sample	7.6
Benzo(a)anthracene	ND	20	ng/sample	7.6
Benzo(b)fluoranthene	ND	200	ng/sample	60
Benzo(k)fluoranthene	ND	200	ng/sample	86
Benzo(ghi)perylene	ND	20	ng/sample	10
Benzo(a)pyrene	ND	20	ng/sample	5.8
Benzo(e)pyrene	ND	20	ng/sample	11
Chrysene	ND	20	ng/sample	5.0
Dibenz(a,h)anthracene	ND	20	ng/sample	7.8
Fluoranthene	ND	20	ng/sample	13
Fluorene	ND	20	ng/sample	8.2
Indeno(1,2,3-cd)pyrene	ND	20	ng/sample	5.2
2-Methylnaphthalene	ND	100	ng/sample	42
Naphthalene	ND	800	ng/sample	500
Perylene	ND	20	ng/sample	6.2
Phenanthrene	ND	60	ng/sample	48
Pyrene	ND	120	ng/sample	72

Internal Standard	PERCENT	
	RECOVERY	RECOVERY LIMITS
Anthracene-d10	96	(30 - 120)
Naphthalene-d8	91	(30 - 120)
2-Methylnaphthalene-d10	97	(30 - 120)
1-Methylnaphthalene-d10	95	(30 - 120)
Acenaphthylene-d8	112	(30 - 120)
Phenanthrene-d10	83	(30 - 120)
2,6-Dimethylnaphthalene-d12	99	(30 - 120)
Fluoranthene-d10	101	(30 - 120)
Benzo(a)anthracene-d12	145 *	(30 - 120)
Chrysene-d12	90	(30 - 120)
Benzo(b)fluoranthene-d12	117	(30 - 120)
Benzo(k)fluoranthene-d12	81	(30 - 120)
Benzo(a)pyrene-d12	112	(30 - 120)
Perylene-d12	101	(30 - 120)
Indeno(1,2,3-cd)pyrene-d12	102	(30 - 120)
Dibenz(ah)anthracene-d14	99	(30 - 120)
Benzo(ghi)perylene-d12	93	(30 - 120)

NOTE(S) :

* Surrogate recovery is outside stated control limits.

METHOD BLANK REPORT

GC/MS Semivolatiles

Client Lot #...: H1G190403
 MB Lot-Sample #: H1G200000-079 Work Order #...: MK2D01AA Matrix.....: AIR
 Prep Date.....: 07/20/11 Analysis Date...: 07/29/2011
 Prep Batch #...: 1201079
 Dilution Factor: 2 Method.....: KNOX ID-0016

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Acenaphthene	ND	40	ng/sample	9.8
Acenaphthylene	ND	40	ng/sample	4.8
Anthracene	ND	20	ng/sample	7.6
Benzo(a)anthracene	ND	20	ng/sample	7.6
Benzo(b)fluoranthene	ND	200	ng/sample	60
Benzo(k)fluoranthene	ND	200	ng/sample	86
Benzo(ghi)perylene	ND	20	ng/sample	10
Benzo(a)pyrene	ND	20	ng/sample	5.8
Benzo(e)pyrene	ND	20	ng/sample	11
Chrysene	ND	20	ng/sample	5.0
Dibenz(a,h)anthracene	ND	20	ng/sample	7.8
Fluoranthene	ND	20	ng/sample	13
Fluorene	ND	20	ng/sample	8.2
Indeno(1,2,3-cd)pyrene	ND	20	ng/sample	5.2
2-Methylnaphthalene	ND	100	ng/sample	42
Naphthalene	ND	800	ng/sample	500
Perylene	ND	20	ng/sample	6.2
Phenanthrene	ND	60	ng/sample	48
Pyrene	ND	120	ng/sample	72

Internal Standard	PERCENT RECOVERY		RECOVERY LIMITS	
Anthracene-d10	93		(30 - 120)	
Naphthalene-d8	89		(30 - 120)	
2-Methylnaphthalene-d10	94		(30 - 120)	
1-Methylnaphthalene-d10	92		(30 - 120)	
Acenaphthylene-d8	104		(30 - 120)	
Phenanthrene-d10	82		(30 - 120)	
2,6-Dimethylnaphthalene-d12	95		(30 - 120)	
Fluoranthene-d10	100		(30 - 120)	
Benzo(a)anthracene-d12	144 *		(30 - 120)	
Chrysene-d12	90		(30 - 120)	
Benzo(b)fluoranthene-d12	116		(30 - 120)	
Benzo(k)fluoranthene-d12	90		(30 - 120)	
Benzo(a)pyrene-d12	110		(30 - 120)	
Perylene-d12	102		(30 - 120)	
Indeno(1,2,3-cd)pyrene-d12	104		(30 - 120)	
Dibenz(ah)anthracene-d14	101		(30 - 120)	
Benzo(ghi)perylene-d12	96		(30 - 120)	

NOTE(S) :

1 13C6-Anthracene = 80 %

* Surrogate recovery is outside stated control limits.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: H1G190403 Work Order #...: MK2D01AC-LCS Matrix.....: AIR
 LCS Lot-Sample#: H1G200000-079 MK2D01AD-LCSD
 Prep Date: 07/20/11 Analysis Date...: 07/29/11
 Prep Batch #...: 1201079
 Dilution Factor: 1 Method.....: KNOX ID-0016

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS
Acenaphthene	250	226	ng/sample	90	(60 - 140)		
	250	221	ng/sample	88	(60 - 140)	2.2	(0-25)
Acenaphthylene	250	227	ng/sample	91	(60 - 140)		
	250	227	ng/sample	91	(60 - 140)	0.0	(0-25)
Anthracene	250	215	ng/sample	86	(60 - 140)		
	250	211	ng/sample	84	(60 - 140)	1.9	(0-25)
Benzo(a)anthracene	250	187	ng/sample	75	(60 - 140)		
	250	187	ng/sample	75	(60 - 140)	0.0	(0-25)
Benzo(b)fluoranthene	250	198	ng/sample	79	(60 - 140)		
	250	197	ng/sample	79	(60 - 140)	0.50	(0-25)
Benzo(k)fluoranthene	250	265	ng/sample	106	(60 - 140)		
	250	264	ng/sample	106	(60 - 140)	0.37	(0-25)
Benzo(ghi)perylene	250	239	ng/sample	96	(60 - 140)		
	250	239	ng/sample	96	(60 - 140)	0.0	(0-25)
Benzo(a)pyrene	250	234	ng/sample	94	(60 - 140)		
	250	234	ng/sample	94	(60 - 140)	0.0	(0-25)
Benzo(e)pyrene	250	202	ng/sample	81	(60 - 140)		
	250	202	ng/sample	81	(60 - 140)	0.0	(0-25)
Chrysene	250	261	ng/sample	104	(60 - 140)		
	250	263	ng/sample	105	(60 - 140)	0.76	(0-25)
Dibenz(a,h)anthracene	250	246	ng/sample	98	(60 - 140)		
	250	240	ng/sample	96	(60 - 140)	2.5	(0-25)
Fluoranthene	250	232	ng/sample	93	(60 - 140)		
	250	232	ng/sample	93	(60 - 140)	0.0	(0-25)
Fluorene	250	247	ng/sample	99	(60 - 140)		
	250	248	ng/sample	99	(60 - 140)	0.40	(0-25)
Indeno(1,2,3-cd)pyrene	250	228	ng/sample	91	(60 - 140)		
	250	227	ng/sample	91	(60 - 140)	0.44	(0-25)
2-Methylnaphthalene	250	261	ng/sample	104	(60 - 140)		
	250	258	ng/sample	103	(60 - 140)	1.2	(0-25)
Naphthalene	2000	2180	ng/sample	109	(60 - 140)		
	2000	2180	ng/sample	109	(60 - 140)	0.0	(0-25)
Perylene	250	226	ng/sample	90	(60 - 140)		
	250	227	ng/sample	91	(60 - 140)	0.44	(0-25)
Phenanthrene	250	262	ng/sample	105	(60 - 140)		
	250	258	ng/sample	103	(60 - 140)	1.5	(0-25)
Pyrene	250	226	ng/sample	90	(60 - 140)		
	250	225	ng/sample	90	(60 - 140)	0.44	(0-25)

INTERNAL STANDARD	PERCENT RECOVERY	RECOVERY LIMITS
Anthracene-d10	96	(60 - 140)
	100	(60 - 140)
Naphthalene-d8	91	(60 - 140)
	92	(60 - 140)
2-Methylnaphthalene-d10	96	(60 - 140)
	97	(60 - 140)
1-Methylnaphthalene-d10	93	(60 - 140)

(Continued on next Page)

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: H1G190403 Work Order #...: MK2D01AC-LCS Matrix.....: AIR
 LCS Lot-Sample#: H1G200000-079 MK2D01AD-LCSD

<u>INTERNAL STANDARD</u>	PERCENT	RECOVERY
	<u>RECOVERY</u>	<u>LIMITS</u>
	95	(60 - 140)
Acenaphthylene-d8	111	(60 - 140)
	114	(60 - 140)
Phenanthrene-d10	82	(60 - 140)
	84	(60 - 140)
2,6-Dimethylnaphthalene-d12	97	(60 - 140)
	99	(60 - 140)
Fluoranthene-d10	101	(60 - 140)
	102	(60 - 140)
Benzo(a)anthracene-d12	147 *	(60 - 140)
	150 *	(60 - 140)
Chrysene-d12	88	(60 - 140)
	90	(60 - 140)
Benzo(b)fluoranthene-d12	117	(60 - 140)
	120	(60 - 140)
Benzo(k)fluoranthene-d12	86	(60 - 140)
	88	(60 - 140)
Benzo(a)pyrene-d12	111	(60 - 140)
	114	(60 - 140)
Perylene-d12	101	(60 - 140)
	103	(60 - 140)
Indeno(1,2,3-cd)pyrene-d12	105	(60 - 140)
	109	(60 - 140)
Dibenz(ah)anthracene-d14	100	(60 - 140)
	107	(60 - 140)
Benzo(ghi)perylene-d12	97	(60 - 140)
	101	(60 - 140)

Note(s):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

* Surrogate recovery is outside stated control limits.

Sample Receipt Documentation

CHAIN OF CUSTODY RECORD

H16190403

Project Name: ExxonMobil SRU ICR

Box No.:

Project No.: 184380

Sampling Date(s): 6/14/2011 7-7-11

Laboratory: Test America

Laboratory P.O.:

Shipping Date(s): 7-17-11

Shipper's Name:

Sample ID	Date Sampled	Container	Matrix	Description	Analyses	Comments
EXM-SRU-M0010-R1-FHR	07/07/11	250 amber glass	Organic	run 1	M 0010	
EXM-SRU-M0010-R1-FIL	07/07/11	petri dish	Filter	run 1	M 0010	
EXM-SRU-M0010-R1-BHR	07/07/11	250 amber glass	Organic	run 1	M 0010	
EXM-SRU-M0010-R1-XAD	07/07/11	xad	XAD	run 1	M 0010	
EXM-SRU-M0010-R1-COND	07/07/11	500 ml glass amber	Aqueous	run 1	M 0010	
EXM-SRU-M0010-R2-FHR	07/08/11	250 amber glass	Organic	run 2	M 0010	
EXM-SRU-M0010-R2-FIL	07/08/11	petri dish	Filter	run 2	M 0010	1 cooler Rec'd 2-3
EXM-SRU-M0010-R2-BHR	07/08/11	250 amber glass	Organic	run 2	M 0010	with out custody seal
EXM-SRU-M0010-R2-XAD	07/08/11	xad	XAD	run 2	M 0010	Sept 7/19
EXM-SRU-M0010-R2-COND	07/08/11	500 ml glass amber	Aqueous	run 2	M 0010	1 cooler hand delivered
EXM-SRU-M0010-R3-FHR	07/08/11	250 glass amber	Organic	run 3	M 0010	
EXM-SRU-M0010-R3-FIL	07/08/11	250 glass amber	Filter	run 3	M 0010	
EXM-SRU-M0010-R3-BHR	07/08/11	250 g glass amber	Organic	run 3	M 0010	
EXM-SRU-M0010-R3-XAD	07/08/11	XAD	XAD	run 3	M 0010	
EXM-SRU-M0010-R3-COND	07/08/11	500 ml amber	Aqueous	run 3	M 0010	
EXM-SRU-M0010-RGTBLK-XAD	07/08/11		XAD	xad reagent blank	M 0010	
EXM-SRU-M0010-RGTBLK-rinse	07/08/11		Organic	MeCl2/MeOH reagent blank	M 0010	
Relinquished by: R. Monson		Date/Time: 7-7-11 1545	Relinquished by: C. Webb 7/19/11 8:23 Date/Time:			
Received by: C. Webb		Date/Time: 7-17-11 1546	Received by: [Signature] 7/19/11 0820 Date/Time:			
Remarks (*):						

TESTAMERICA KNOXVILLE SAMPLE RECEIPT/CONDITION UPON RECEIPT ANOMALY CHECKLIST

Lot Number: A16190403

Review Items	Yes	No	NA	If No, what was the problem?	Comments/Actions Taken
1. Do sample container labels match COC? (IDs, Dates, Times)				<input type="checkbox"/> 1a Do not match COC <input type="checkbox"/> 1b Incomplete information <input type="checkbox"/> 1c Marking smeared <input type="checkbox"/> 1d Label torn <input type="checkbox"/> 1e No label <input type="checkbox"/> 1f COC not received <input type="checkbox"/> 1g Other:	<u>NA</u>
2. Is the cooler temperature within limits? (> freezing temp. of water to 6 °C, VOST: 10°C)	<input checked="" type="checkbox"/>			<input type="checkbox"/> 2a Temp Blank = _____ <input type="checkbox"/> 2b Cooler Temp = _____ <input type="checkbox"/> 2c Cooling initiated for recently collected samples, ice present. <input type="checkbox"/> 3a Sample preservative =	
3. Were samples received with correct chemical preservative (excluding Encore)?			<input checked="" type="checkbox"/>	<input type="checkbox"/> 3a Sample preservative =	
4. Were custody seals present/intact on cooler and/or containers?		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/> 4a Not present <input type="checkbox"/> 4b Not intact <input type="checkbox"/> 4c Other:	
5. Were all of the samples listed on the COC received?	<input checked="" type="checkbox"/>			<input type="checkbox"/> 5a Samples received-not on COC <input type="checkbox"/> 5b Samples not received-on COC	
6. Were all of the sample containers received intact?	<input checked="" type="checkbox"/>			<input type="checkbox"/> 6a Leaking <input type="checkbox"/> 6b Broken	
7. Were VOA samples received without headspace?			<input checked="" type="checkbox"/>	<input type="checkbox"/> 7a Headspace (VOA only)	
8. Were samples received in appropriate containers?	<input checked="" type="checkbox"/>			<input type="checkbox"/> 8a Improper container	
9. Did you check for residual chlorine, if necessary?			<input checked="" type="checkbox"/>	<input type="checkbox"/> 9a Could not be determined due to matrix interference	
10. Were samples received within holding time?	<input checked="" type="checkbox"/>			<input type="checkbox"/> 10a Holding time expired	
11. For rad samples, was sample activity info. provided?			<input checked="" type="checkbox"/>	<input type="checkbox"/> Incomplete information	
12. For 1613B water samples is pH<9?			<input checked="" type="checkbox"/>	If no, was pH adjusted to pH 7 - 9 with sulfuric acid?	
13. Are the shipping containers intact?	<input checked="" type="checkbox"/>			<input type="checkbox"/> 13a Leaking <input type="checkbox"/> 13b Other:	
14. Was COC relinquished? (Signed/Dated/Timed)	<input checked="" type="checkbox"/>			<input type="checkbox"/> 14a Not relinquished	
15. Are tests/parameters listed for each sample?	<input checked="" type="checkbox"/>			<input type="checkbox"/> 15a Incomplete information	
16. Is the matrix of the samples noted?	<input checked="" type="checkbox"/>			<input type="checkbox"/> 15a Incomplete information	
17. Is the date/time of sample collection noted?	<input checked="" type="checkbox"/>			<input type="checkbox"/> 15a Incomplete information	
18. Is the client and project name/# identified?	<input checked="" type="checkbox"/>			<input type="checkbox"/> 15a Incomplete information	
19. Was the sampler identified on the COC?	<input checked="" type="checkbox"/>			<input type="checkbox"/> 15a Incomplete information	
Quote #: <u>89041</u> PM Instructions: <u>NA</u>					

QA026R22.doc, 012811

Date: 7/19/11

Sample Receiving Associate: [Signature]

Semivolatiles

Raw Sample Data

TRC Environmental Corporation

Client Sample ID: EXM-SRU-M0010-R1-COMBINED

GC/MS Semivolatiles

Lot-Sample #....: H1G190403-001 Work Order #....: MK09P1AA Matrix.....: AIR
 Date Sampled....: 07/07/11 Date Received...: 07/19/11
 Prep Date.....: 07/20/11 Analysis Date...: 07/27/11
 Prep Batch #....: 1201076
 Dilution Factor: 2 Method.....: SW846 8270C

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acenaphthene	ND	20	ug	5.4
Acenaphthylene	ND	20	ug	5.6
Aniline	ND	20	ug	17
Anthracene	ND	20	ug	6.4
Benz (a) anthracene	17 J, CI	20	ug	6.2
Benzidine	ND	200	ug	120
Benzo (b) fluoranthene	ND	20	ug	8.2
Benzo (k) fluoranthene	ND	20	ug	9.8
Benzo (ghi) perylene	ND	20	ug	6.4
Benzo (a) pyrene	ND	20	ug	7.6
Benzo (e) pyrene	ND	20	ug	1.7
Biphenyl	12 J	20	ug	2.0
Chrysene	ND	20	ug	6.2
Cresols (total)	ND	20	ug	16
Dibenz (a, h) anthracene	ND	20	ug	6.0
Dibenzofuran	ND	20	ug	5.6
Dibenzo (a, e) pyrene	ND	20	ug	1.4
3,3'-Dimethoxybenzidine	ND	200	ug	28
p-Dimethylaminoazobenzene	ND	20	ug	4.8
7,12-Dimethylbenz (a) - anthracene	ND	20	ug	7.0
3,3'-Dimethylbenzidine	ND	200	ug	36
alpha, alpha-Dimethylphenethyla mine	ND	50	ug	17
2,4-Dimethylphenol	ND	20	ug	13
Fluoranthene	ND	20	ug	7.2
Fluorene	ND	20	ug	6.0
Indeno (1,2,3-cd) pyrene	ND	20	ug	6.2
Isophorone	ND	20	ug	5.6
3-Methylcholanthrene	ND	20	ug	7.6
2-Methylnaphthalene	ND	20	ug	5.8
Naphthalene	22	20	ug	6.2
Nitrobenzene	ND	20	ug	5.8
Perylene	ND	20	ug	1.5
Phenanthrene	6.6 J	20	ug	6.0
Phenol	7.9 J	20	ug	6.2
1,4-Phenylenediamine	ND	200	ug	50
Pyrene	11 J, CI	20	ug	7.0
o-Toluidine	ND	20	ug	5.6

(Continued on next page)

TRC Environmental Corporation

Client Sample ID: EXM-SRU-M0010-R1-COMBINED

GC/MS Semivolatiles

Lot-Sample #...: H1G190403-001 Work Order #...: MK09P1AA Matrix.....: AIR

SURROGATE	PERCENT	RECOVERY
	RECOVERY	LIMITS
2-Fluorophenol	67	(22 - 105)
Phenol-d5	87	(48 - 118)
Nitrobenzene-d5	74	(43 - 110)
2-Fluorobiphenyl	72	(48 - 111)
2,4,6-Tribromophenol	95	(34 - 125)

NOTE(S) :

J Estimated result. Result is less than RL.

CI See narrative.

Data File: /var/chem/gcms/md.i/D072711.b/mk09p1aa.d

Report Date: 28-Jul-2011 11:28

TestAmerica Knoxville

Semivolatile Organic Compounds by GC/MS

Data file : /var/chem/gcms/md.i/D072711.b/mk09p1aa.d
 Lab Smp Id: MK09P1AA Client Smp ID: EXM-SRU-M0010-R1-CO
 Inj Date : 27-JUL-2011 21:38
 Operator : 60841 Inst ID: md.i
 Smp Info : MK09P1AA,,0,,,
 Misc Info : D072711,8270a9,ICR.sub
 Comment : Semivolatile Organic Compounds by GC/MS
 Method : /chem/gcms/md.i/D072711.b/8270a9.m
 Meth Date : 27-Jul-2011 17:16 mcgeek Quant Type: ISTD
 Cal Date : 26-JUL-2011 17:42 Cal File: a9dg267.d
 Als bottle: 15
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: ICR.sub
 Target Version: 3.50
 Processing Host: qmidhp01

Concentration Formula: Amt * DF * (Vt*Sf)/(Vo*Uf) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	1000.00000	Volume of final extract (uL)
Sf	2.00000	Prep split factor
Vo	1.00000	Volume of sample extracted (1=total samp
Uf	1000.00000	unit correction factor

Cpnd Variable

Local Compound Variable

280311

Compounds	QUANT SIG	MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN (ng/uL)	FINAL (ug)
* 1 1,4-Dichlorobenzene-d4	=====	152	4.301	4.301	(1.000)	49251	20.0000	20.0
* 2 Naphthalene-d8	=====	136	5.888	5.887	(1.000)	193330	20.0000	20.0
* 3 Acenaphthene-d10	=====	164	8.485	8.484	(1.000)	120073	20.0000	20.0
* 4 Phenanthrene-d10	=====	188	9.895	9.895	(1.000)	232879	20.0000	20.0
* 5 Chrysene-d12	=====	240	11.922	11.928	(1.000)	259640	20.0000	20.0
* 6 Perylene-d12	=====	264	13.849	13.855	(1.000)	247111	20.0000	20.0
\$ 7 2-Fluorophenol	=====	112	3.132	3.126	(0.728)	136829	50.3218	101
\$ 8 Phenol-d5	=====	99	3.943	3.931	(0.917)	213849	65.5932	131
\$ 9 Nitrobenzene-d5	=====	82	4.924	4.930	(0.836)	114709	37.2335	74.5
\$ 11 2,4,6-Tribromophenol	=====	330	9.307	9.307	(0.941)	66290	71.1017	142
\$ 10 2-Fluorobiphenyl	=====	172	7.586	7.591	(0.894)	269518	35.8819	71.8
15 Phenol (ccc)	=====	94	3.954	3.949	(0.919)	13271	3.95796	7.92
16 Aniline	=====	93	3.972	3.972	(0.924)	2455	0.59079	1.18

Data File: /var/chem/gcms/md.i/D072711.b/mk09p1aa.d

Report Date: 28-Jul-2011 11:28

Compounds	QUANT SIG					CONCENTRATIONS	
	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ng/uL)	FINAL (ug)
=====	=====	==	=====	=====	=====	=====	=====
199 Phentermine	58	5.676	5.658	(0.964)	54881	12.1101	24.2 (M) ✓
37 Naphthalene	128	5.917	5.923	(1.005)	104410	11.2706	22.5
41 2-Methylnaphthalene	142	6.928	6.933	(1.177)	4501	0.71831	1.44
188 1,1'-Biphenyl	154	7.732	7.732	(0.911)	59123	6.21406	12.4
56 Fluorene	166	9.072	9.078	(1.069)	7405	0.94698	1.89
66 Phenanthrene	178	9.912	9.912	(1.002)	40999	3.28630	6.57
71 Pyrene	202	10.952	10.940	(0.919)	83593	5.68513	11.4
73 Benzo(a)Anthracene	228	11.934	11.916	(1.001)	108768	8.44849	16.9 (H)

QC Flag Legend

M - Compound response manually integrated.

H - Operator selected an alternate compound hit.

Data File: /var/chem/gcms/md.i/D072711.b/mk09p1aa.d
Report Date: 28-Jul-2011 11:16

TestAmerica Knoxville

Semivolatile Organic Compounds by GC/MS

Data file : /var/chem/gcms/md.i/D072711.b/mk09p1aa.d
Lab Smp Id: MK09P1AA Client Smp ID: EXM-SRU-M0010-R1-CO
Inj Date : 27-JUL-2011 21:38
Operator : 60841 Inst ID: md.i
Smp Info : MK09P1AA,,0,,,
Misc Info : D072711,8270a9,ICR.sub
Comment : Semivolatile Organic Compounds by GC/MS
Method : /chem/gcms/md.i/D072711.b/8270a9.m
Meth Date : 27-Jul-2011 17:16 mcgeek Quant Type: ISTD
Cal Date : 26-JUL-2011 17:42 Cal File: a9dg267.d
Als bottle: 15
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ICR.sub
Target Version: 3.50
Processing Host: qmidhp01

Concentration Formula: $\text{Amt} * \text{DF} * (\text{Vt} * \text{Sf}) / (\text{Vo} * \text{Uf}) * \text{CpndVariable}$

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	1000.00000	Volume of final extract (uL)
Sf	2.00000	Prep split factor
Vo	1.00000	Volume of sample extracted (1=total samp
Uf	1000.00000	unit correction factor

Cpnd Variable

Local Compound Variable

Compounds	QUANT SIG	MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN (ng/uL)	FINAL (ug)
* 1 1,4-Dichlorobenzene-d4	152	4.301	4.301	(1.000)	49251	20.0000	20.0	
* 2 Naphthalene-d8	136	5.888	5.887	(1.000)	193330	20.0000	20.0	
* 3 Acenaphthene-d10	164	8.485	8.484	(1.000)	120073	20.0000	20.0	
* 4 Phenanthrene-d10	188	9.895	9.895	(1.000)	232879	20.0000	20.0	
* 5 Chrysene-d12	240	11.922	11.928	(1.000)	259640	20.0000	20.0	
* 6 Perylene-d12	264	13.849	13.855	(1.000)	247111	20.0000	20.0	
\$ 7 2-Fluorophenol	112	3.132	3.126	(0.728)	136829	50.3213	101	
\$ 8 Phenol-d5	99	3.943	3.931	(0.917)	213849	65.5923	131	
\$ 9 Nitrobenzene-d5	82	4.924	4.930	(0.836)	114709	37.2336	74.5	
\$ 11 2,4,6-Tribromophenol	330	9.307	9.307	(0.941)	66290	71.1022	142	
\$ 10 2-Fluorobiphenyl	172	7.586	7.591	(0.894)	269518	35.8818	71.8	
\$ 12 Terphenyl-d14	244	11.040	11.046	(0.926)	5278	0.53518	1.07(R)	
\$ 179 13C6-naphthalene	134	5.888	5.917	(1.000)	17416	1.65773	2.32(R)	

KRM 7/28/11

Data File: /var/chem/gcms/md.i/D072711.b/mk09p1aa.d

Report Date: 28-Jul-2011 11:16

Compounds	QUANT SIG					CONCENTRATIONS	
	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ng/uL)	FINAL (ug)
=====	=====	==	=====	=====	=====	=====	=====
15 Phenol (ccc)	94	3.954	3.949	(0.919)	13271	3.95798	7.92
16 Aniline	93	3.972	3.972	(0.924)	2455	0.59091	1.18
32 2,4-Dimethyphenol	107	5.629	5.447	(0.956)	7827	2.41335	4.83
199 Phentermine	58	5.676	5.658	(0.964)	23261	8.52904	17.0 6
37 Naphthalene	128	5.917	5.923	(1.005)	104410	11.2706	22.5
202 1,4-Phenylenediamine	108	6.581	6.499	(1.118)	3457	7.00201	14.0
41 2-Methylnaphthalene	142	6.928	6.933	(1.177)	4501	0.71835	1.44
188 1,1'-Biphenyl	154	7.732	7.732	(0.911)	59123	6.21413	12.4
53 Dibenzofuran	168	8.561	8.719	(1.009)	10063	1.06548	2.13
56 Fluorene	166	9.072	9.078	(1.069)	7405	0.94702	1.89
66 Phenanthrene	178	9.912	9.912	(1.002)	40999	3.28634	6.57
67 Anthracene	178	9.912	9.953	(1.002)	40999	3.38731	5.74
70 Fluoranthene (ccc)	202	10.952	10.788	(1.107)	84763	6.59262	13.2
71 Pyrene	202	10.952	10.940	(0.919)	83593	5.68519	11.4
200 3,3'-Dimethoxybenzidine	244	11.851	11.851	(0.994)	462	12.3700	24.7
73 Benzo(a)Anthracene	228	11.934	11.916	(1.001)	108768	8.44849	16.9 OK
75 Chrysene	228	11.934	11.957	(1.001)	108768	7.92000	15.8
196 Perylene	252	13.867	13.908	(1.001)	232	0.01863	0.0372

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

KOM 7/28/11

Data File: /var/chem/gcms/md.i/D072711.b/mk09plaa.d
 Report Date: 28-Jul-2011 11:16

TestAmerica Knoxville

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: md.i
 Lab File ID: mk09plaa.d
 Lab Smp Id: MK09P1AA
 Analysis Type: SV
 Quant Type: ISTD
 Operator: 60841

Calibration Date: 27-JUL-2011
 Calibration Time: 16:02
 Client Smp ID: EXM-SRU-M0010-R1-CO
 Level: LOW
 Sample Type: AIR

Method File: /chem/gcms/md.i/D072711.b/8270a9.m
 Misc Info: D072711,8270a9,ICR.sub

COMPOUND =====	STANDARD =====	AREA LIMIT		SAMPLE =====	%DIFF =====
		LOWER =====	UPPER =====		
1 1,4-Dichlorobenze	44395	22198	88790	49251	10.94
2 Naphthalene-d8	182374	91187	364748	193330	6.01
3 Acenaphthene-d10	111075	55538	222150	120073	8.10
4 Phenanthrene-d10	217977	108988	435954	232879	6.84
5 Chrysene-d12	247793	123896	495586	259640	4.78
6 Perylene-d12	221015	110508	442030	247111	11.81

COMPOUND =====	STANDARD =====	RT LIMIT		SAMPLE =====	%DIFF =====
		LOWER =====	UPPER =====		
1 1,4-Dichlorobenze	4.30	3.80	4.80	4.30	0.00
2 Naphthalene-d8	5.89	5.39	6.39	5.89	0.00
3 Acenaphthene-d10	8.48	7.98	8.98	8.48	0.00
4 Phenanthrene-d10	9.89	9.39	10.39	9.89	0.00
5 Chrysene-d12	11.93	11.43	12.43	11.92	-0.05
6 Perylene-d12	13.85	13.35	14.35	13.85	-0.04

AREA UPPER LIMIT = +100% of internal standard area.
 AREA LOWER LIMIT = - 50% of internal standard area.
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /var/chem/gcms/md.i/D072711.b/mk09plaa.d
 Report Date: 28-Jul-2011 11:16

TestAmerica Knoxville

RECOVERY REPORT

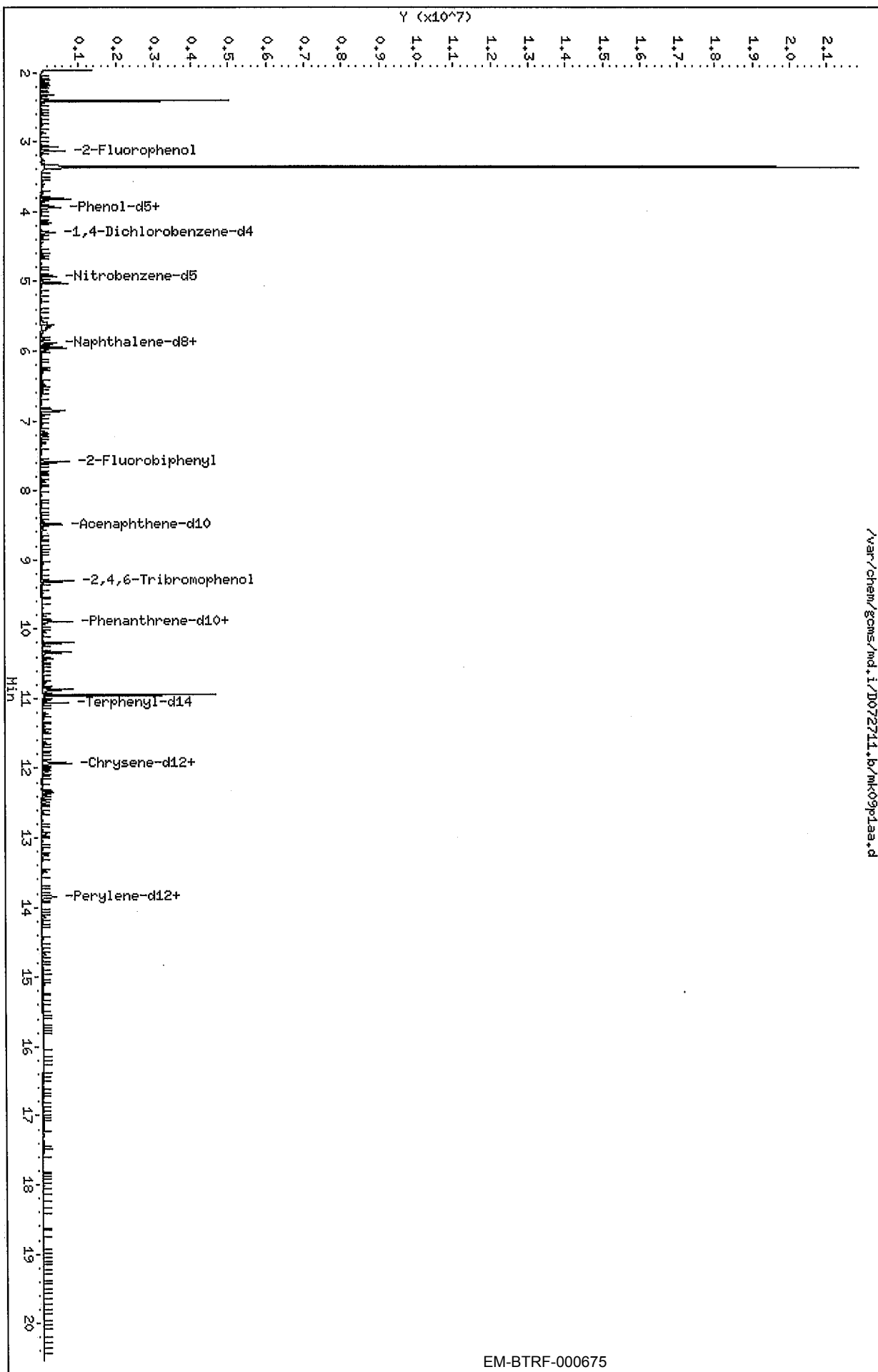
Client Name: TRC Environmental Co19-JUL-2011 00:00 Client SDG: H1G190403
 Sample Matrix: GAS Fraction: SV
 Lab Smp Id: MK09P1AA Client Smp ID: EXM-SRU-M0010-R1-CO
 Level: LOW Operator: 60841
 Data Type: MS DATA SampleType: SAMPLE
 SpikeList File: allspike.spk Quant Type: ISTD
 Sublist File: ICR.sub
 Method File: /chem/gcms/md.i/D072711.b/8270a9.m
 Misc Info: D072711,8270a9,ICR.sub

SURROGATE COMPOUND	CONC ADDED ug	CONC RECOVERED ug	% RECOVERED	LIMITS
\$ 7 2-Fluorophenol	150	101	67.10	19-100
\$ 8 Phenol-d5	150	131	87.46	15-124
\$ 9 Nitrobenzene-d5	100	74.5	74.47	42-104
\$ 11 2,4,6-Tribromophen	150	142	94.80	33-130
\$ 10 2-Fluorobiphenyl	100	71.8	71.76	51-103
\$ 12 Terphenyl-d14	100	1.07	1.07*	58-122
\$ 179 13C6-naphthalene	200	3.32	1.66*	50-150

ms

Data File: /var/chem/gcms/md.i/D072711.b/mk09plaa.d
Date: 27-JUL-2011 21:38
Client ID: EXM-SRU-H0010-R1-C0
Sample Info: MK09P1A9,0,,,
Volume Injected (ul): 1.0
Column phase: Rxi-5 Sil MS

Instrument: md.i
Operator: 60841
Column diameter: 0.25



Data File: /var/chem/gcms/md.i/D072711.b/mk09p1aa.d

Date : 27-JUL-2011 21:38

Client ID: EXH-SRU-M0010-R1-C0

Instrument: md.i

Sample Info: MK09P1AA,,0,,

Volume Injected (uL): 1.0

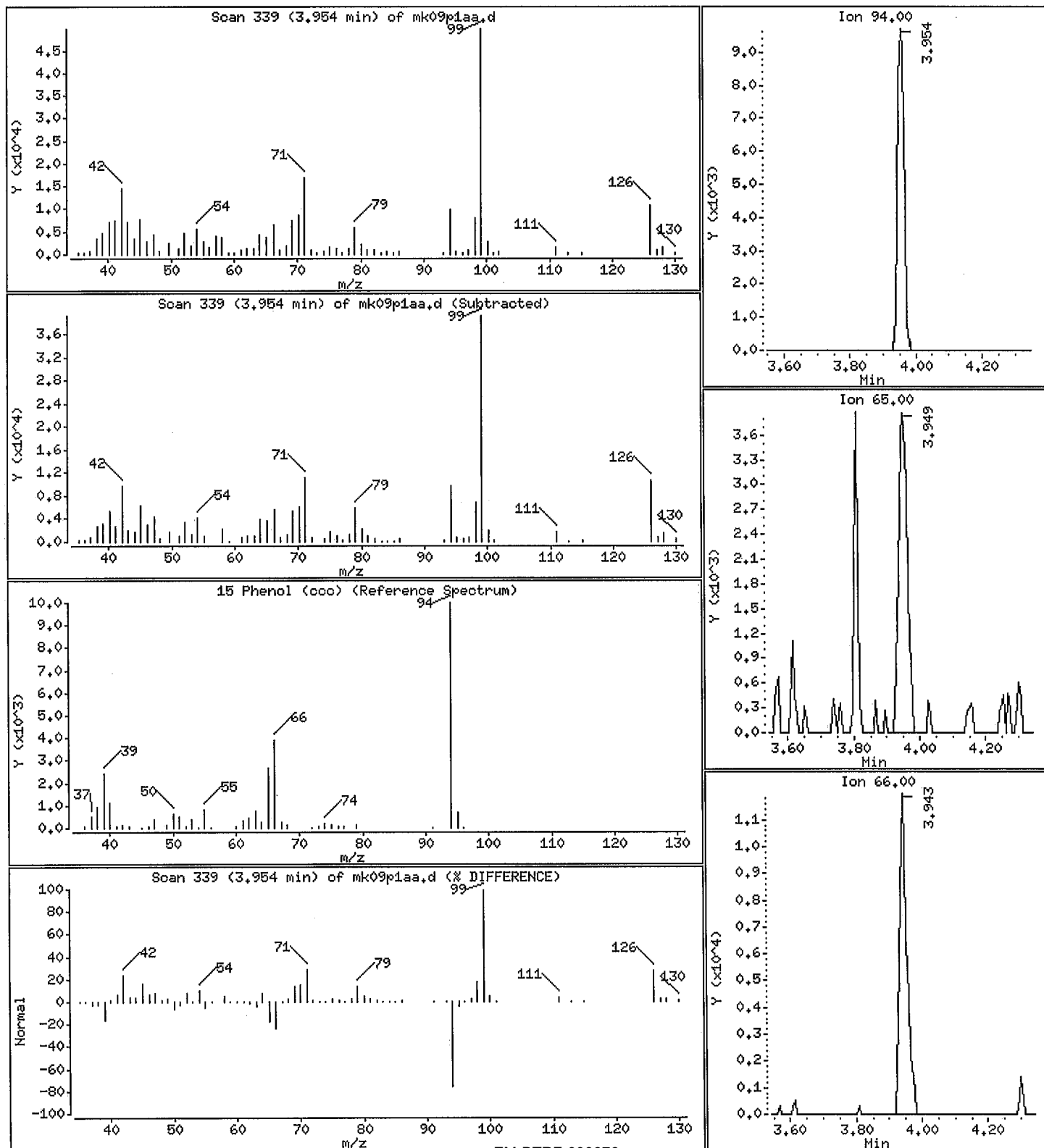
Operator: 60841

Column phase: Rxi-5 Sil MS

Column diameter: 0.25

15 Phenol (ccc)

Concentration: 7.92 ug



EM-BTRF-000676

Data File: /var/chem/gcms/md,i/D072711.b/mk09p1aa.d

Date : 27-JUL-2011 21:38

Client ID: EXM-SRU-M0010-R1-C0

Instrument: md,i

Sample Info: MK09P1AA,,0,,

Volume Injected (uL): 1.0

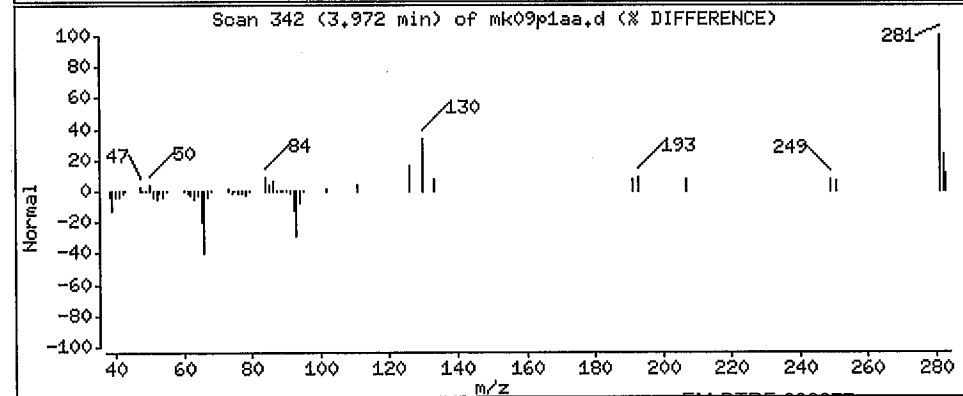
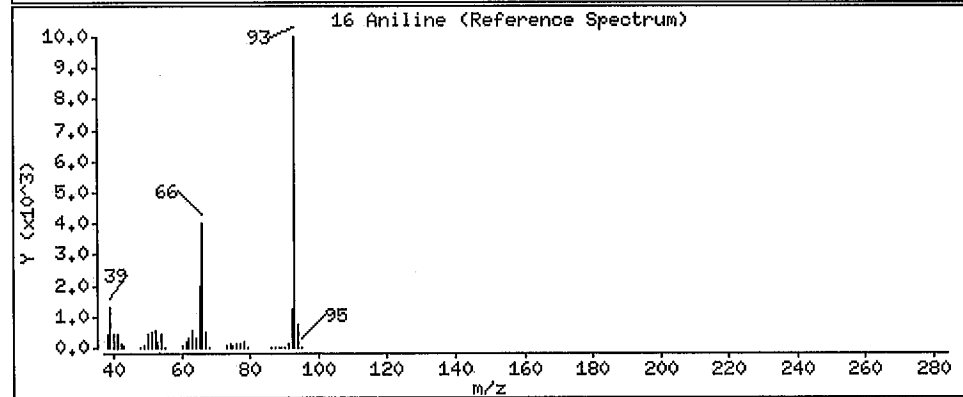
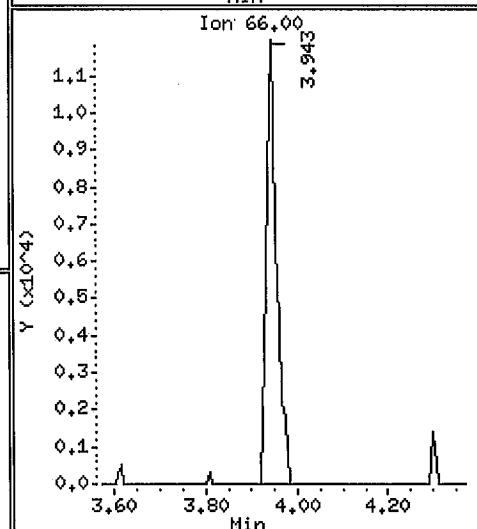
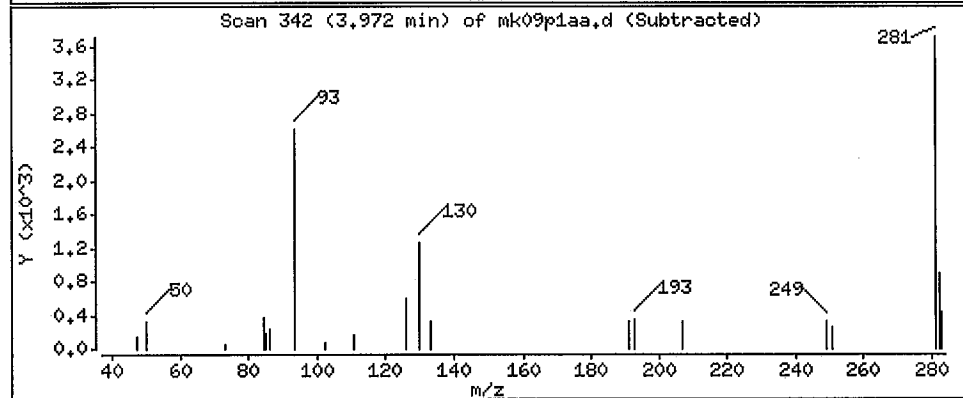
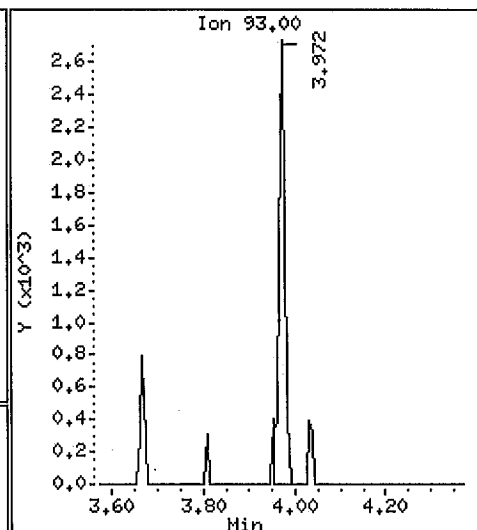
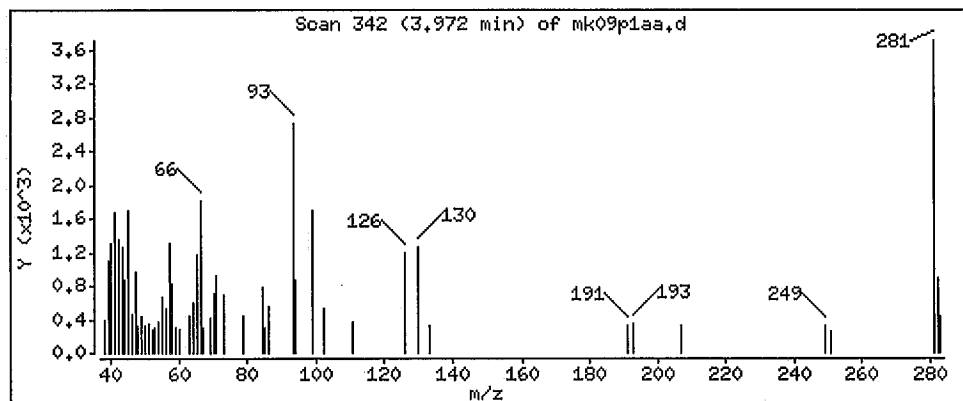
Operator: 60841

Column phase: Rxi-5 Sil MS

Column diameter: 0.25

16 Aniline

Concentration: 1.18 ug



EM-BTRF-000677

Data File: /var/chem/gcms/md,i/D072711,b/mk09p1aa,d

Date : 27-JUL-2011 21:38

Client ID: EXH-SRU-M0010-R1-C0

Instrument: md,i

Sample Info: MK09P1AA,,0,,

Volume Injected (uL): 1.0

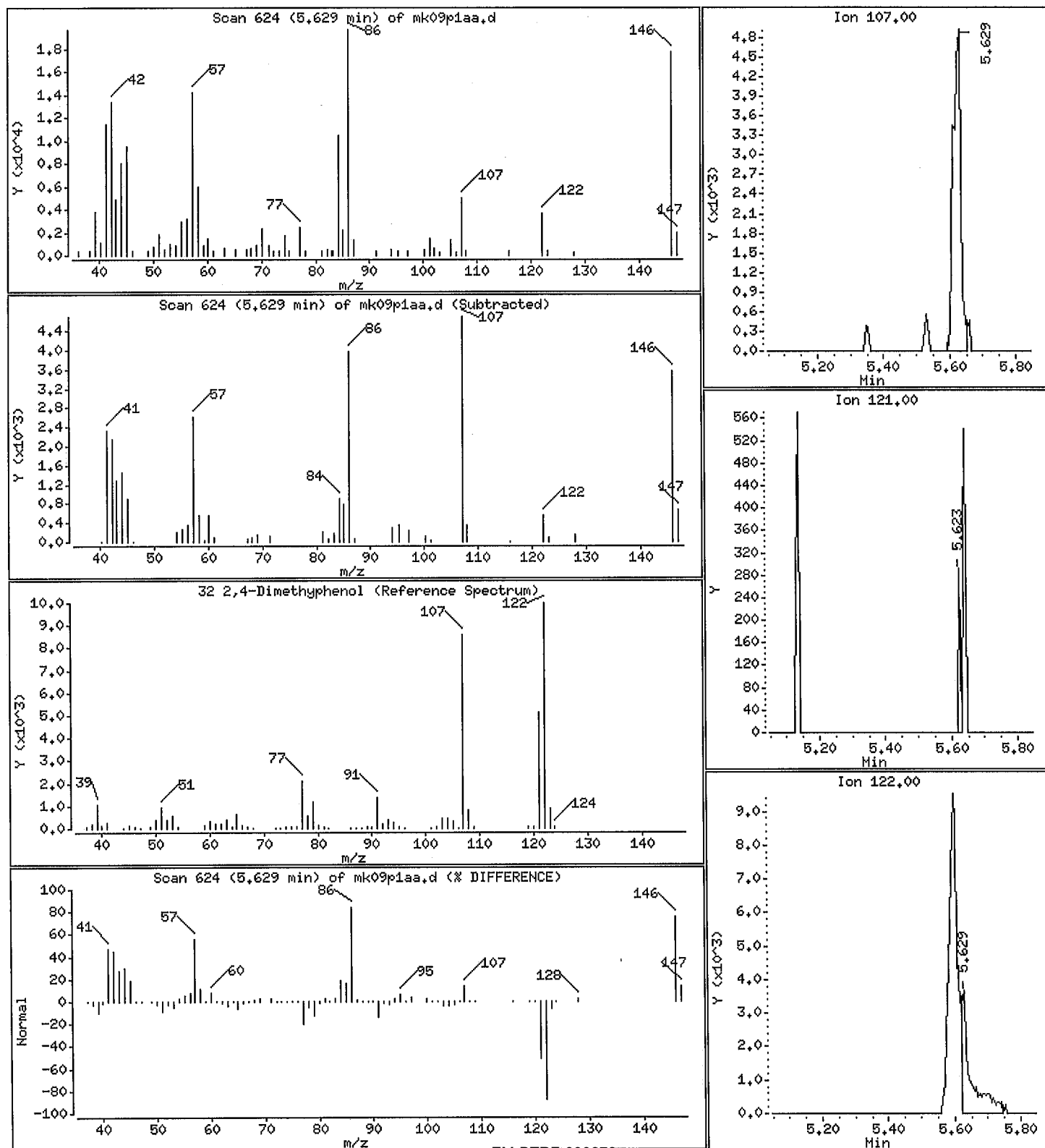
Operator: 60841

Column phase: Rxi-5 Sil MS

Column diameter: 0.25

32 2,4-Dimethyphenol

Concentration: 4.83 ug



Data File: /var/chem/goms/md,i/D072711.b/mk09p1aa.d

Date : 27-JUL-2011 21:38

Client ID: EXM-SRU-M0010-R1-C0

Instrument: md,i

Sample Info: MK09P1AA,,0,,

Volume Injected (uL): 1.0

Operator: 60841

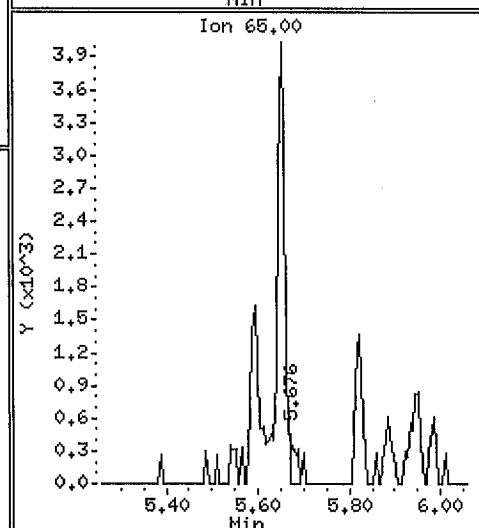
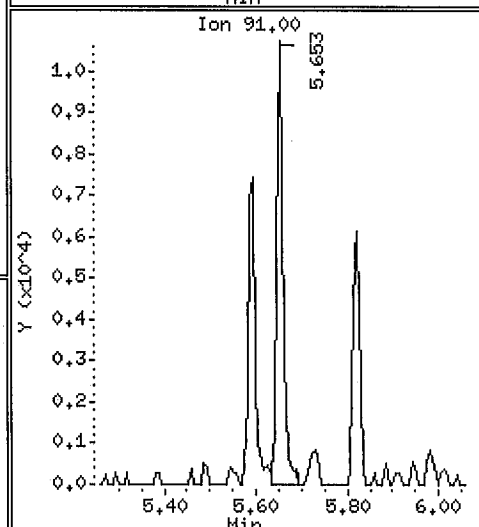
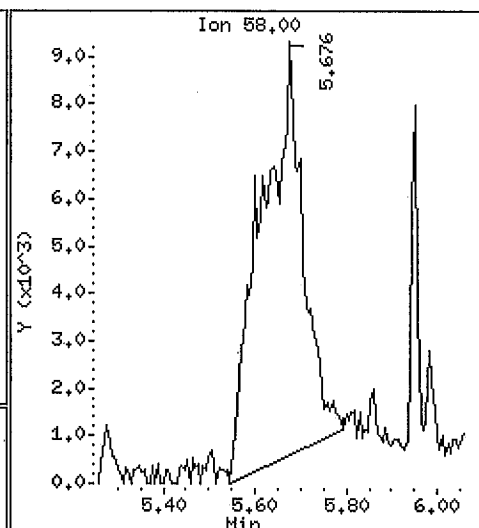
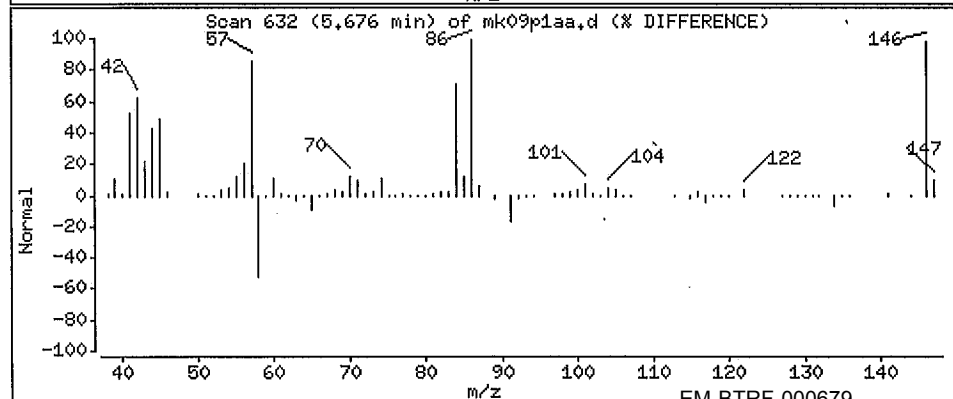
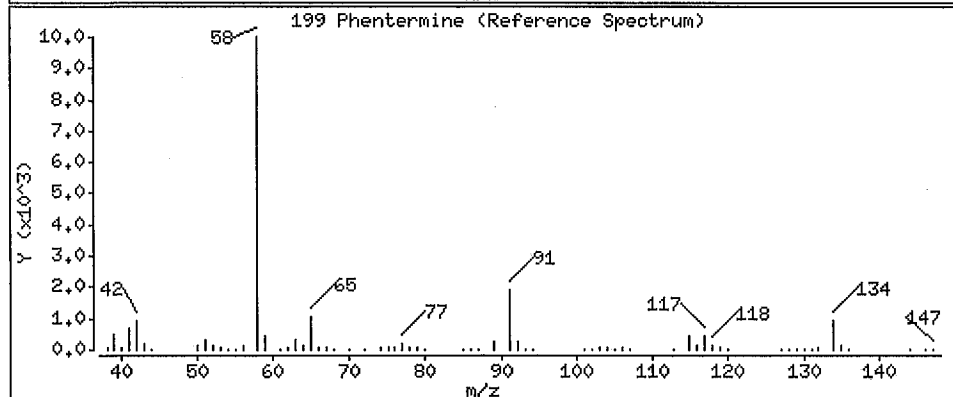
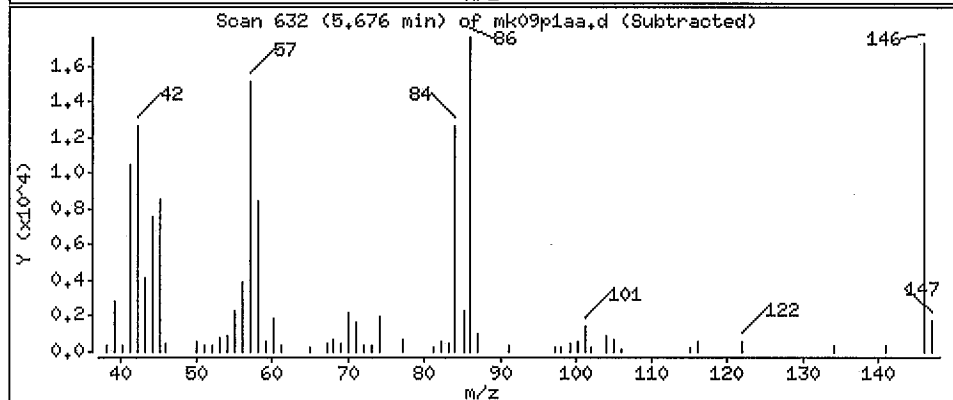
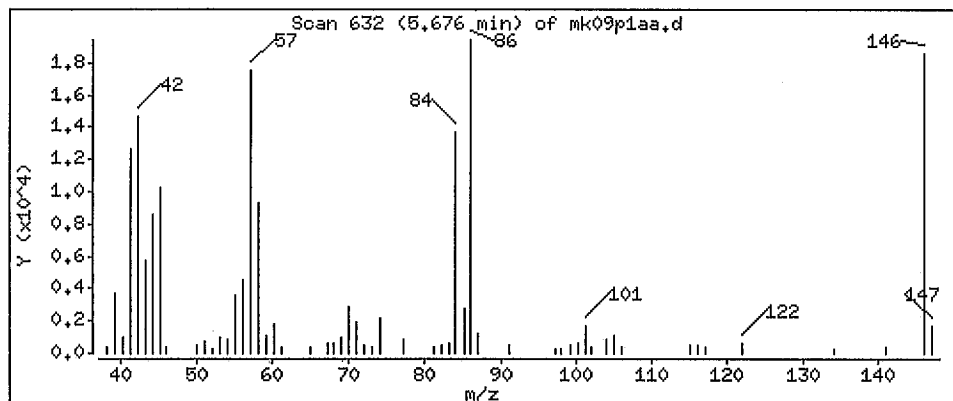
Column phase: Rxi-5 Sil MS

Column diameter: 0.25

199 Phentermine

Concentration: 24.2 ug

KAM 8/3/11 (6)



EM BTRF 000679

Data File: /var/chem/gcms/md,i/D072711.b/mk09p1aa.d

Date : 27-JUL-2011 21:38

Client ID: EXH-SRU-M0010-R1-C0

Instrument: md,i

Sample Info: MK09P1AA,,0,,

Volume Injected (uL): 1.0

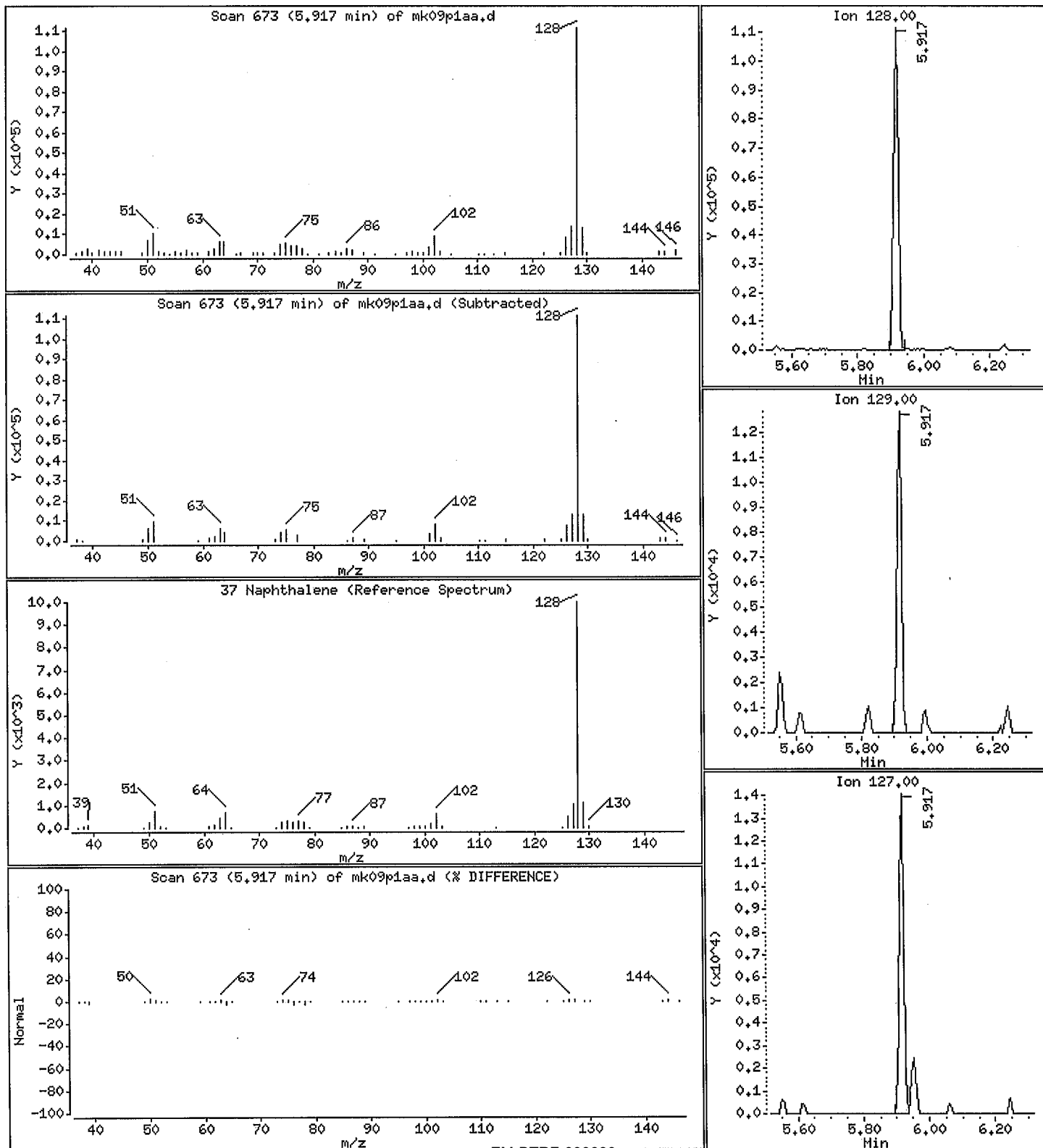
Operator: 60841

Column phase: Rxi-5 Sil MS

Column diameter: 0.25

37 Naphthalene

Concentration: 22.5 ug



Data File: /var/chem/gcms/md.i/D072711.b/mk09p1aa.d

Date : 27-JUL-2011 21:38

Client ID: EXH-SRU-M0010-R1-C0

Instrument: md.i

Sample Info: MK09P1AA,,0,,

Volume Injected (uL): 1.0

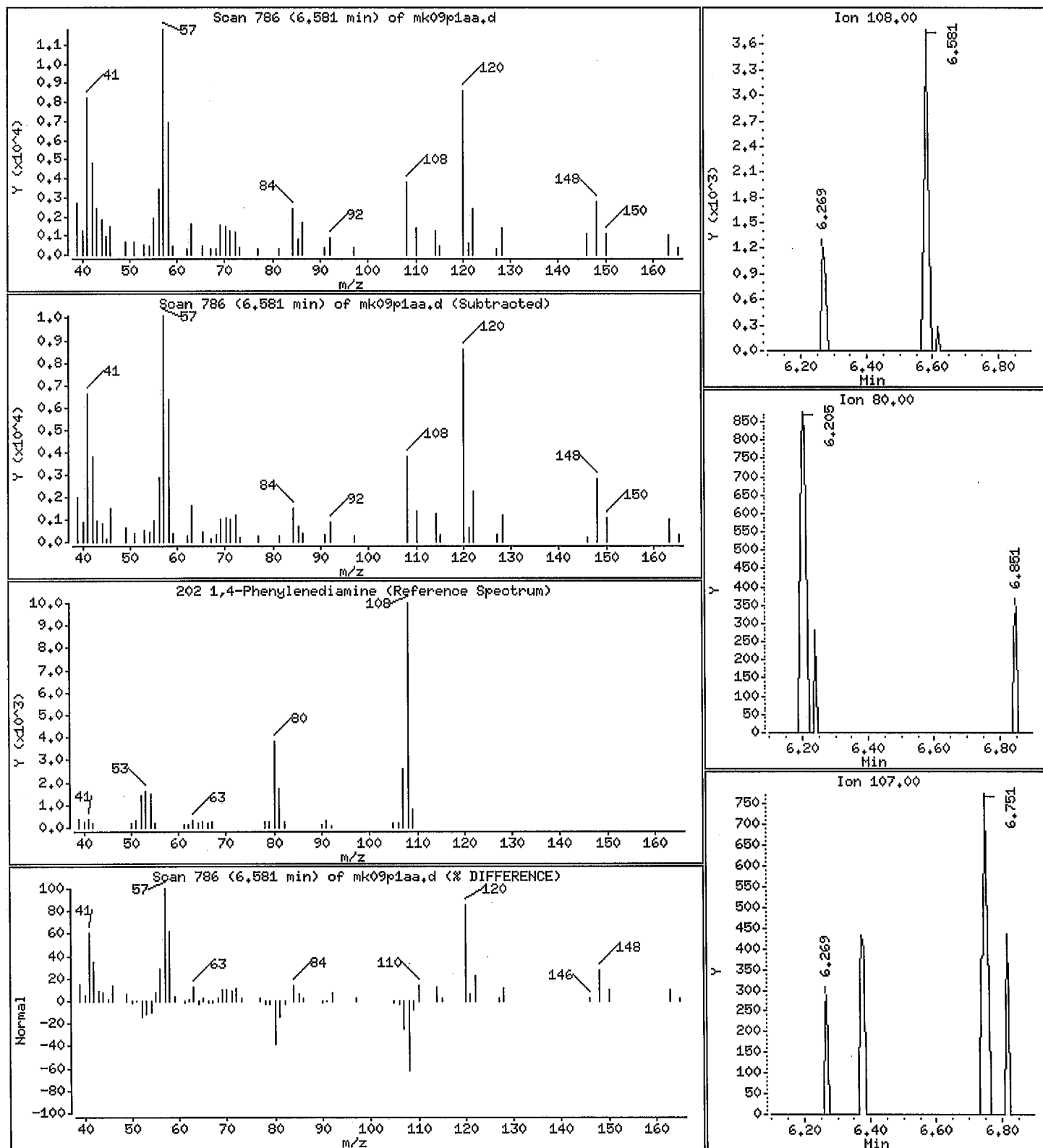
Operator: 60841

Column phase: Rxi-5 Sil MS

Column diameter: 0.25

202 1,4-Phenylenediamine

Concentration: 14.0 ug



EM-BTRF-000681

Data File: /var/chem/gcms/md,i/D072711.b/mk09p1aa.d

Date : 27-JUL-2011 21:38

Client ID: EXM-SRU-M0010-R1-C0

Instrument: md.i

Sample Info: MK09P1AA,,0,,

Volume Injected (uL): 1.0

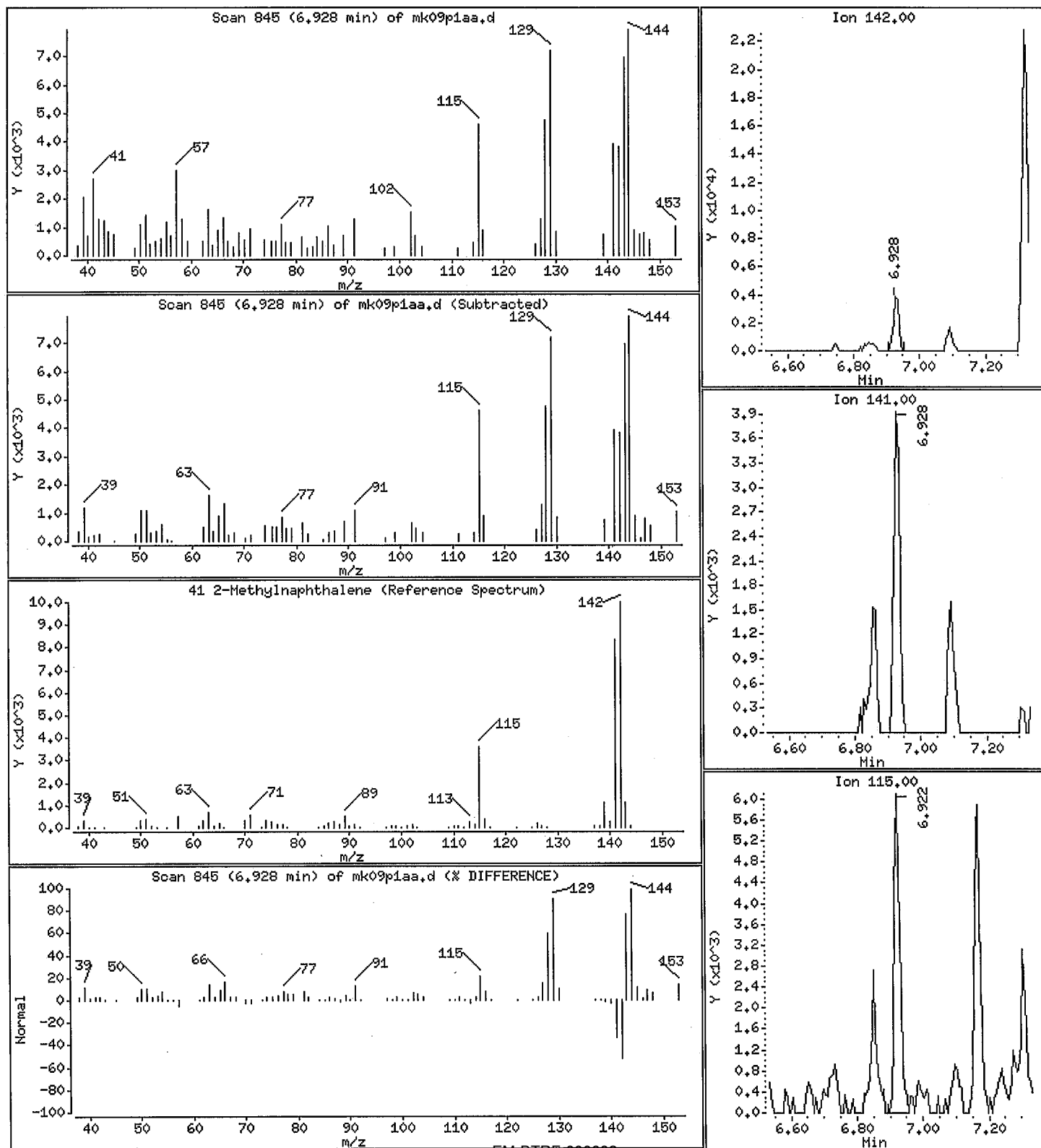
Operator: 60841

Column phase: Rxi-5 Sil MS

Column diameter: 0.25

41 2-Methylnaphthalene

Concentration: 1.44 ug



Data File: /var/chem/gcms/md,i/D072711,b/mk09p1aa,d

Date : 27-JUL-2011 21:38

Client ID: EXM-SRU-M0010-R1-C0

Instrument: md,i

Sample Info: MK09P1AA,,0,,,

Volume Injected (uL): 1.0

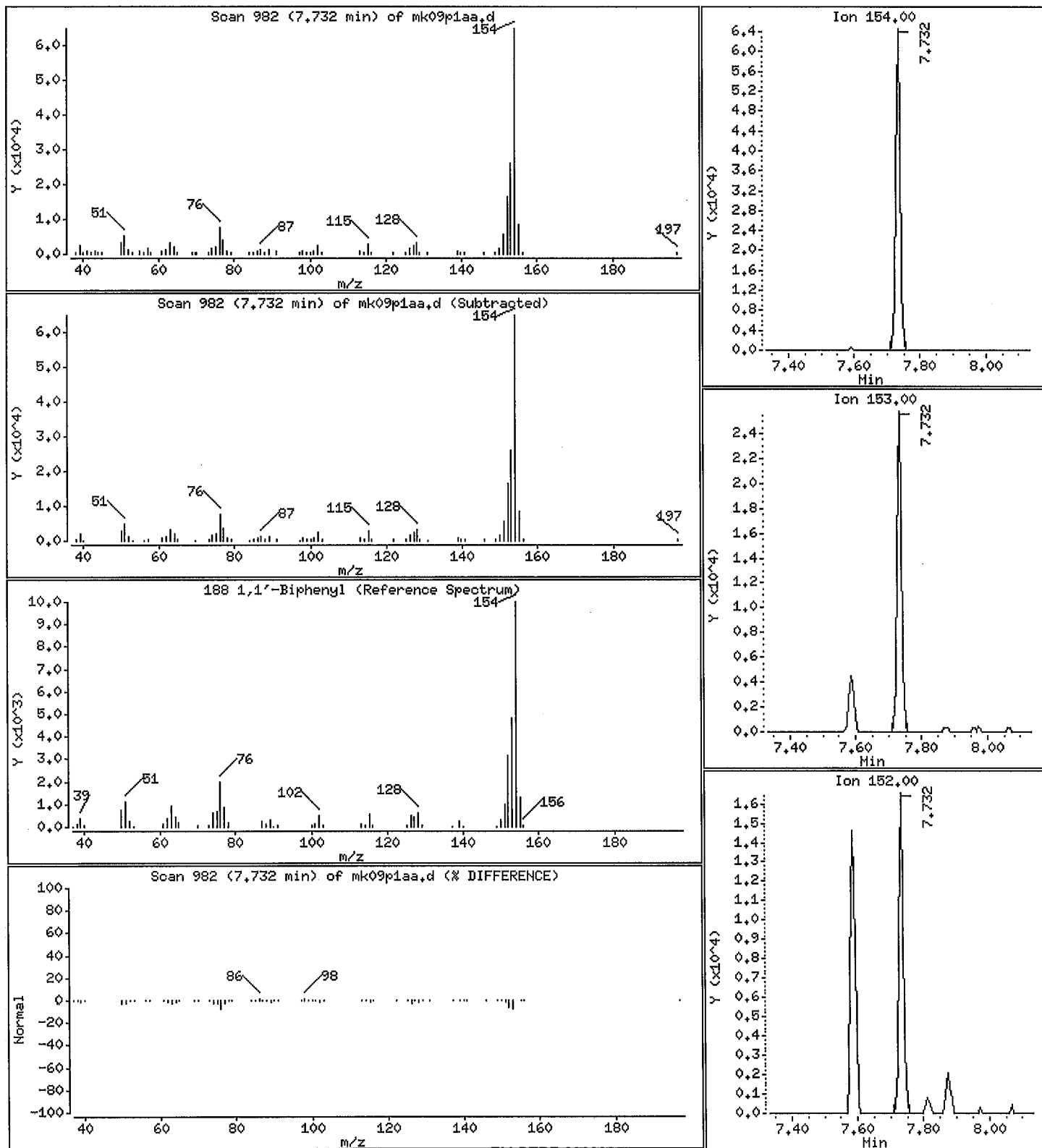
Operator: 60841

Column phase: Rxi-5 Sil MS

Column diameter: 0,25

188 1,1'-Biphenyl

Concentration: 12,4 ug



Data File: /var/chem/gcms/md.i/D072711.b/mk09p1aa.d

Date : 27-JUL-2011 21:38

Client ID: EXM-SRU-H0010-R1-C0

Instrument: md.i

Sample Info: MK09P1AA,,0,,

Volume Injected (uL): 1.0

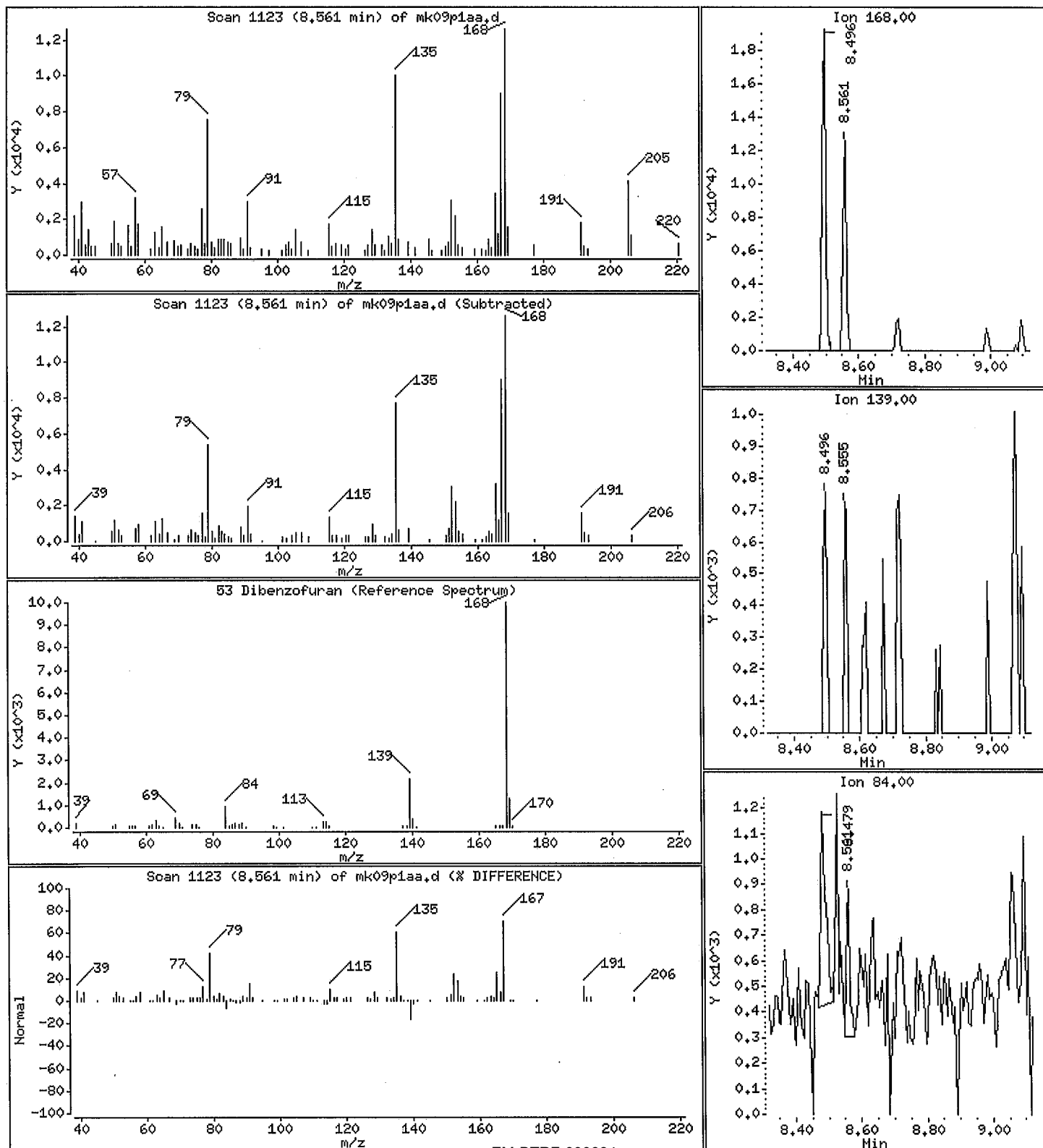
Operator: 60841

Column phase: Rxi-5 Sil MS

Column diameter: 0,25

53 Dibenzofuran

Concentration: 2,13 ug



EM-BTRF-000684

Data File: /var/chem/gcms/md,i/D072711,b/mk09p1aa,d

Date : 27-JUL-2011 21:38

Client ID: EXH-SRU-M0010-R1-C0

Instrument: md,i

Sample Info: MK09P1AA,,0,,,

Volume Injected (uL): 1.0

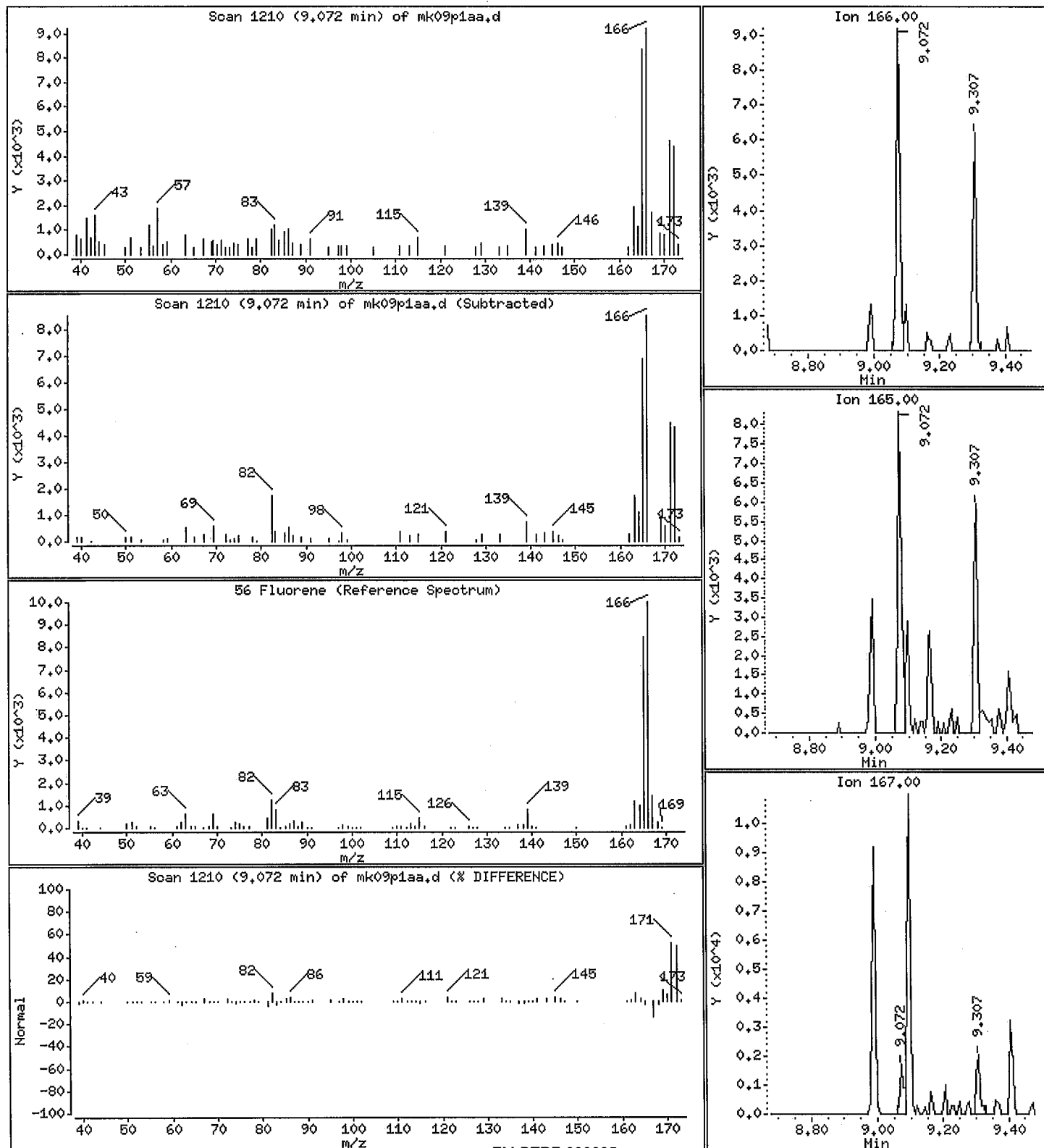
Operator: 60841

Column phase: Rxi-5 Sil MS

Column diameter: 0.25

56 Fluorene

Concentration: 1.89 ug



EM-BTRF-000685

Data File: /var/chem/gcms/md,i/D072711,b/mk09p1aa,d

Date : 27-JUL-2011 21:38

Client ID: EXH-SRU-M0010-R1-C0

Instrument: md,i

Sample Info: MK09P1AA,,0,,

Volume Injected (uL): 1.0

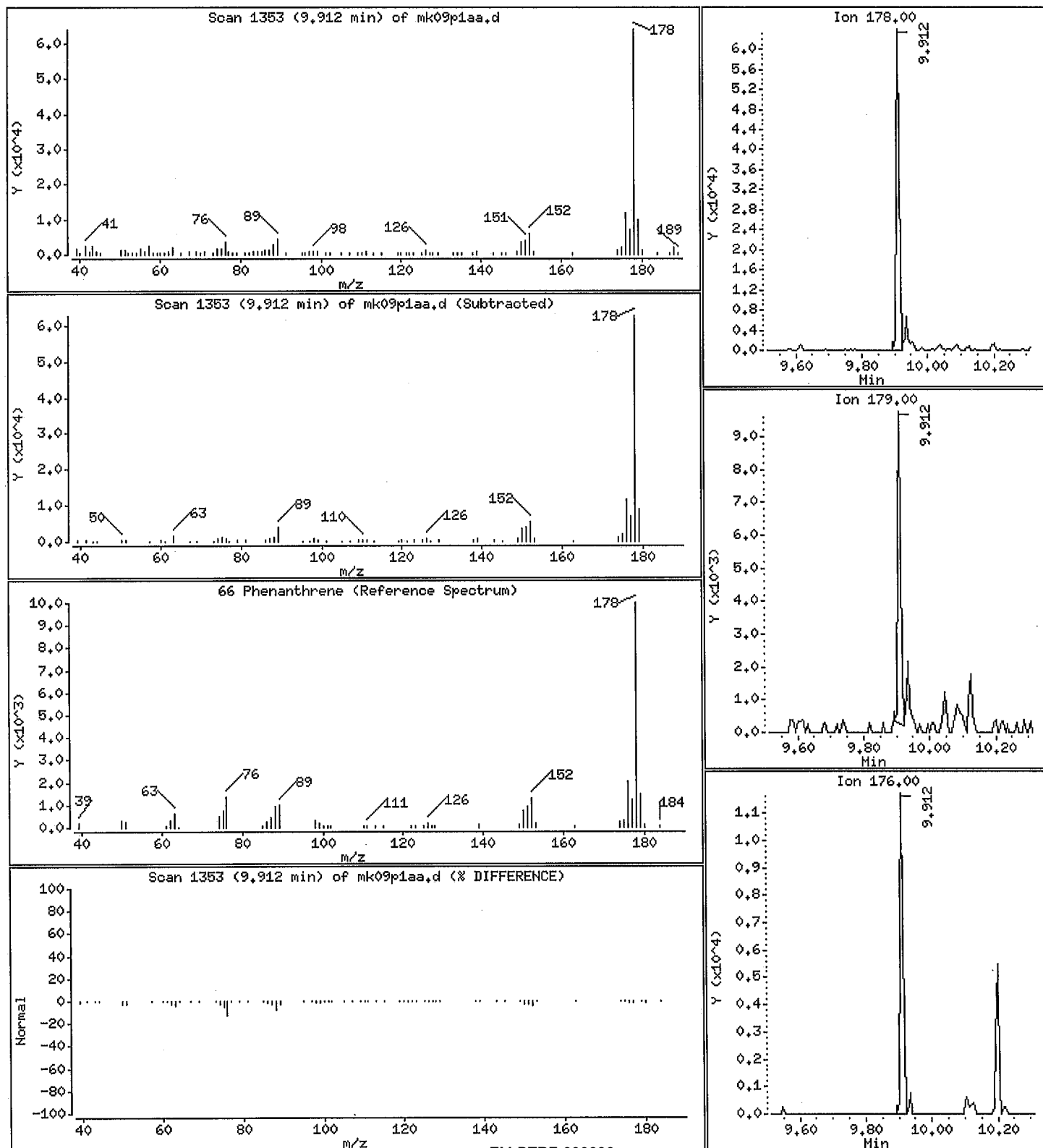
Operator: 60841

Column phase: Rxi-5 Sil MS

Column diameter: 0.25

66 Phenanthrene

Concentration: 6.57 ug



Data File: /var/chem/gcms/md,i/D072711,b/mk09p1aa,d

Date : 27-JUL-2011 21:38

Client ID: EXH-SRU-M0010-R1-C0

Instrument: md,i

Sample Info: MK09P1AA,,0,,,

Volume Injected (uL): 1.0

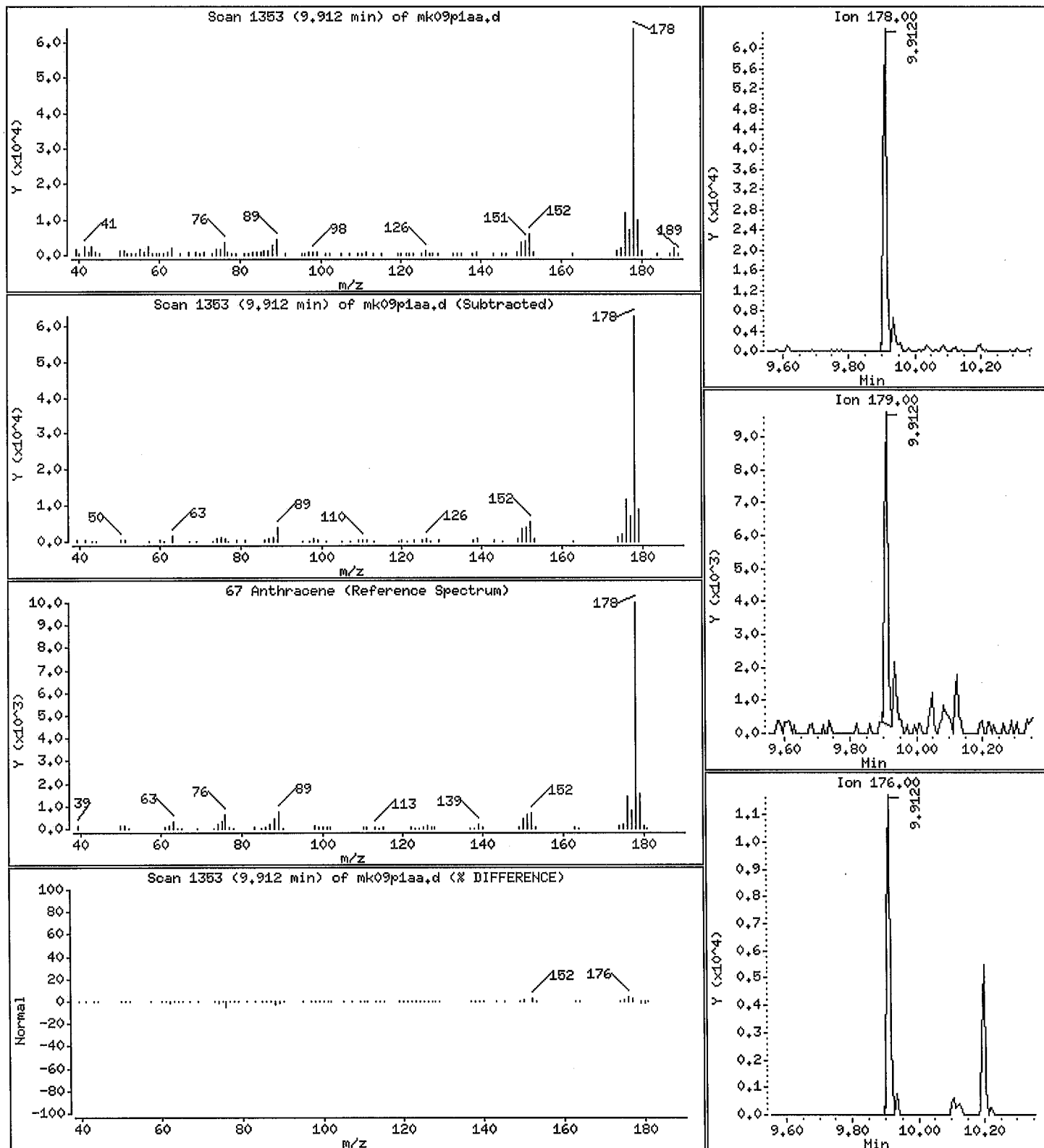
Operator: 60841

Column phase: Rxi-5 Sil MS

Column diameter: 0.25

67 Anthracene

Concentration: 6.77 ug



Data File: /var/chem/gcms/md.i/D072711.b/mk09p1aa.d

Date : 27-JUL-2011 21:38

Client ID: EXH-SRU-M0010-R1-C0

Instrument: md.i

Sample Info: MK09P1AA,,0,,

Volume Injected (uL): 1.0

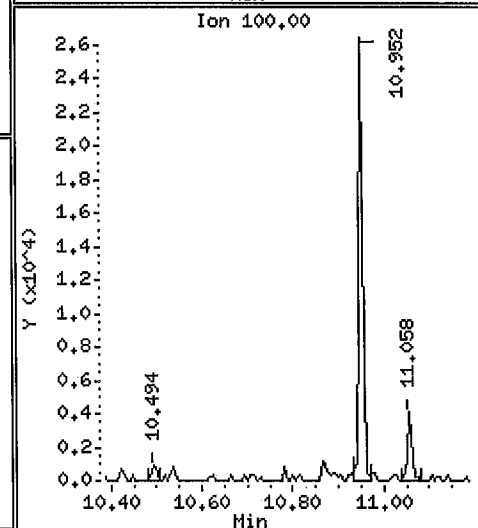
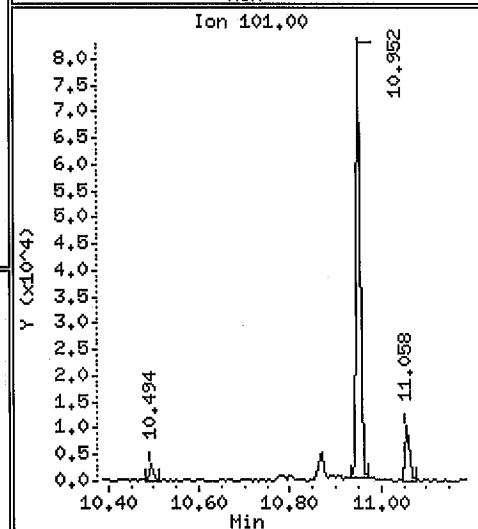
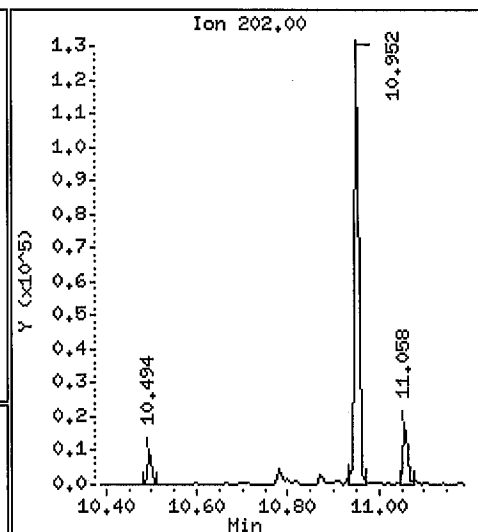
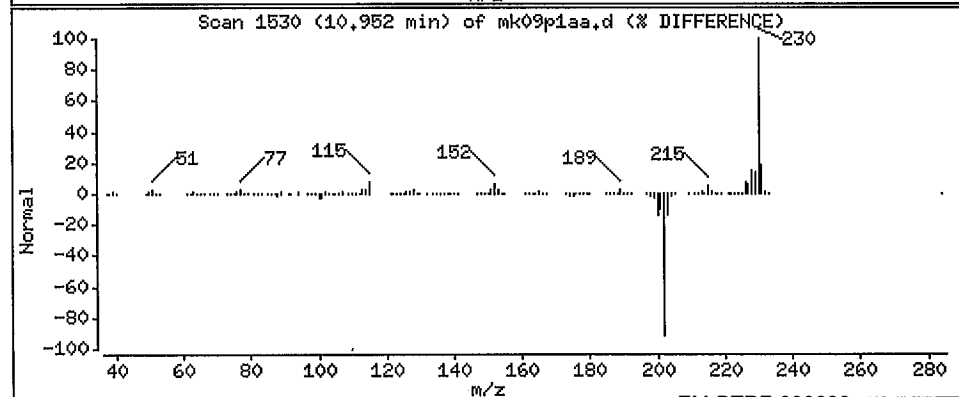
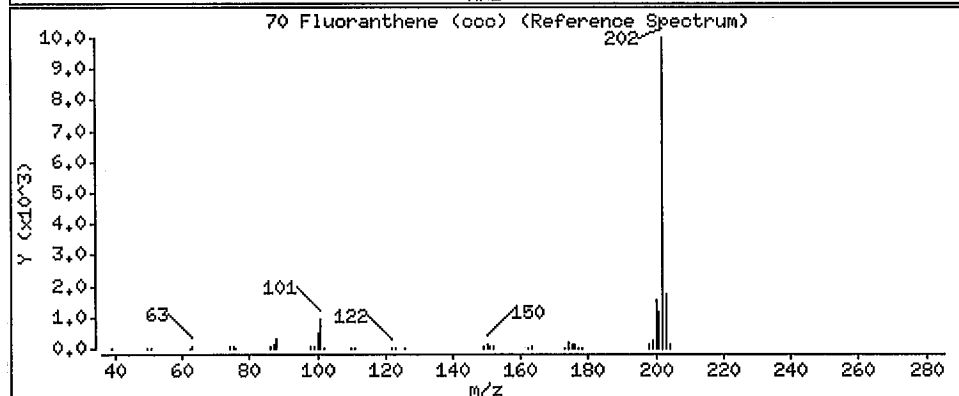
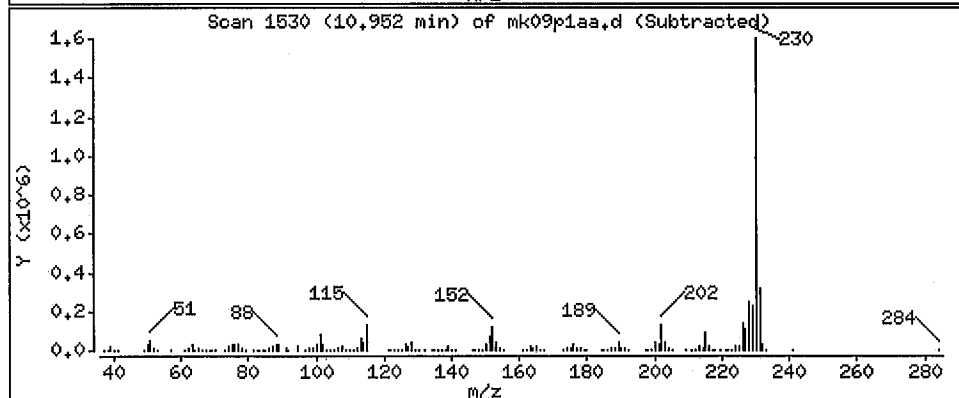
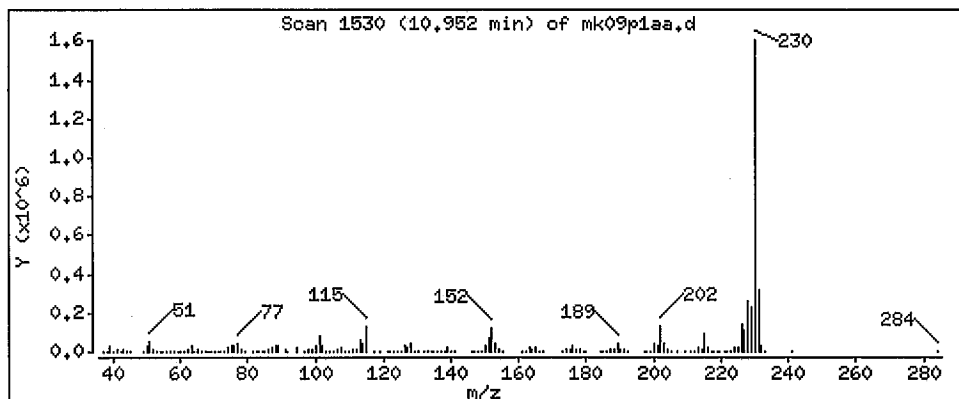
Operator: 60841

Column phase: Rxi-5 Sil MS

Column diameter: 0.25

70 Fluoranthene (ooo)

Concentration: 13.2 ug



Data File: /var/chem/gcms/md,i/D072711,b/mk09p1aa,d

Date : 27-JUL-2011 21:38

Client ID: EXH-SRU-M0010-R1-C0

Instrument: md.i

Sample Info: MK09P1AA,,0,,,

Volume Injected (uL): 1.0

Operator: 60841

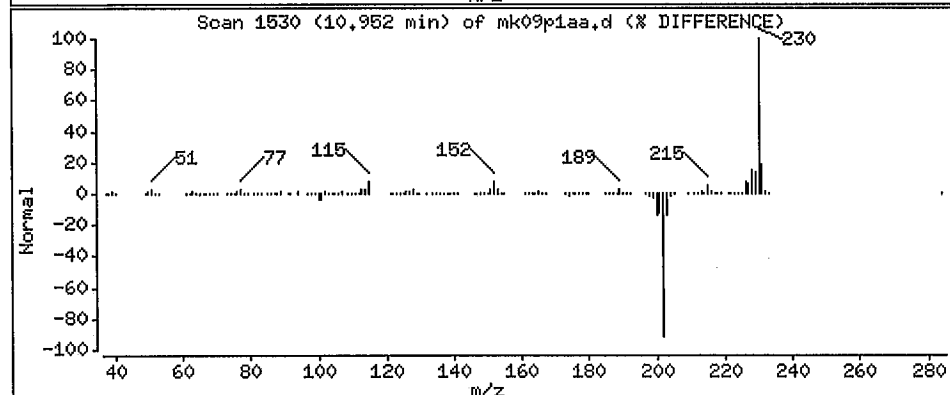
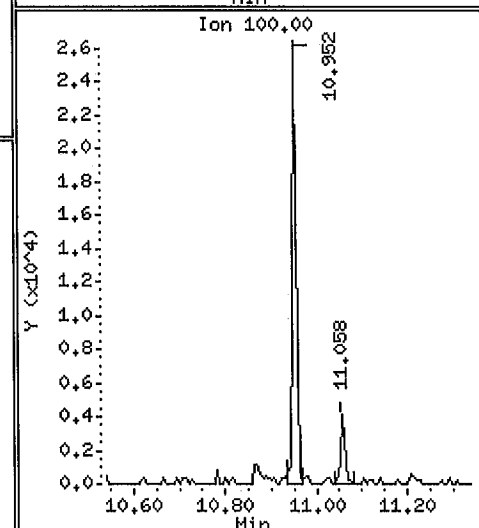
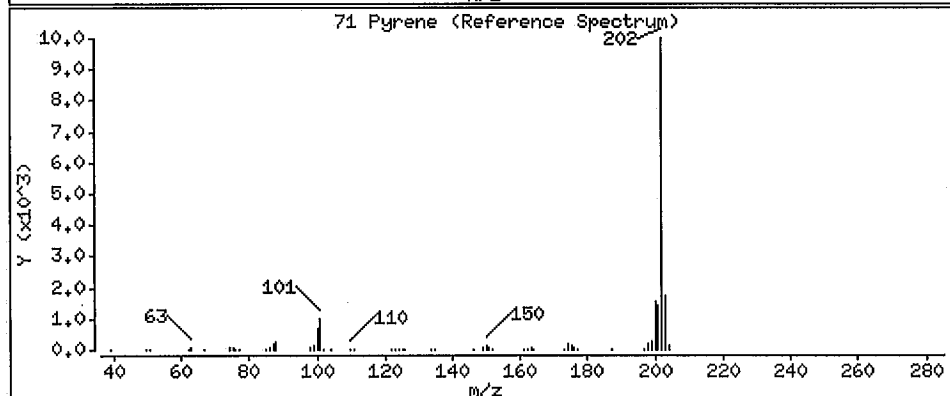
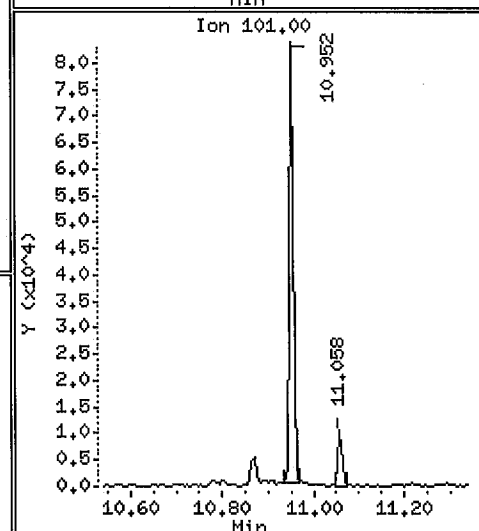
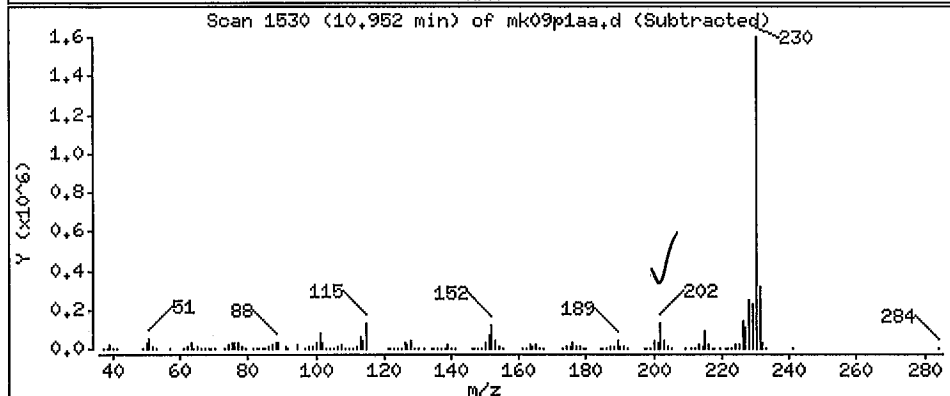
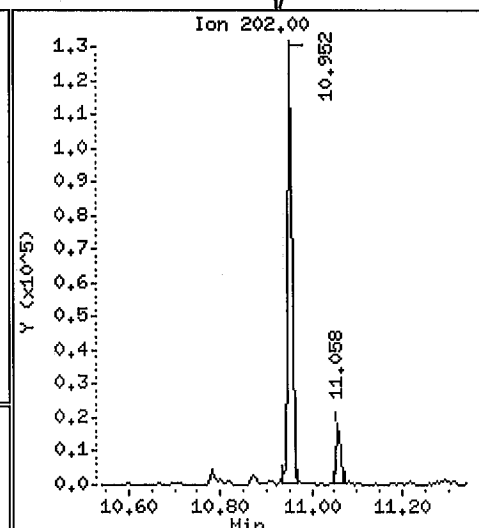
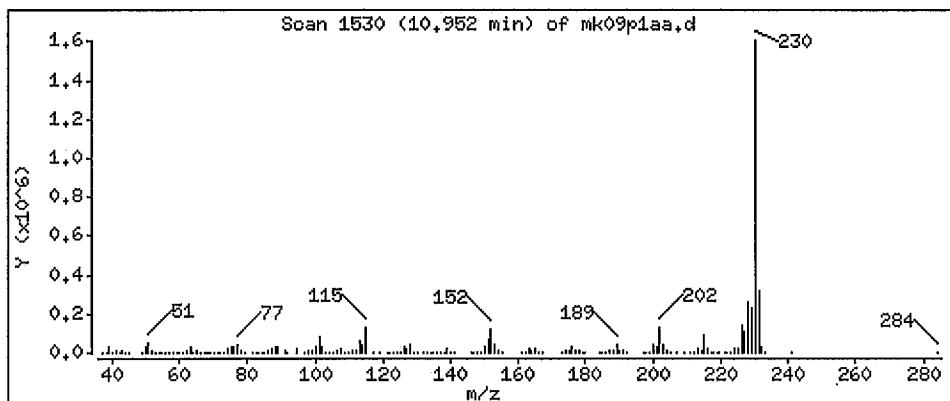
Column phase: Rxi-5 Sil MS

Column diameter: 0.25

71 Pyrene

Concentration: 11.4 ug

terphenyl?
exp
7/28/11



EM-BTRF-000689

Data File: /var/chem/gcms/md,i/D072711,b/mk09p1aa,d

Date : 27-JUL-2011 21:38

Client ID: EXH-SRU-M0010-R1-C0

Instrument: md,i

Sample Info: MK09P1AA,,0,,,

Volume Injected (uL): 1.0

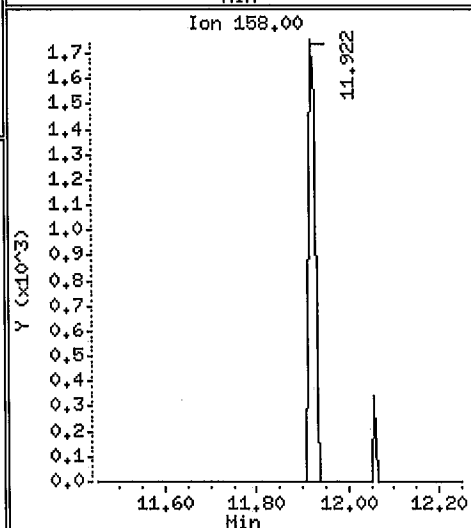
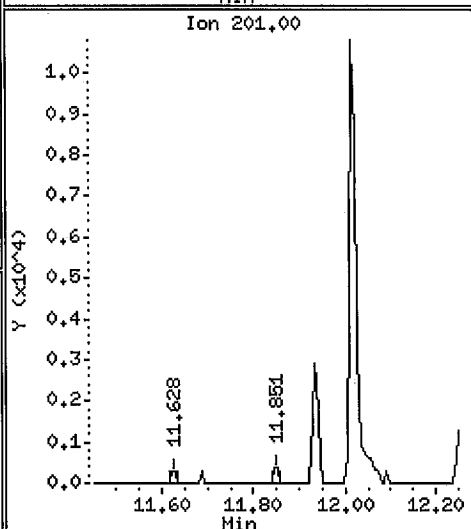
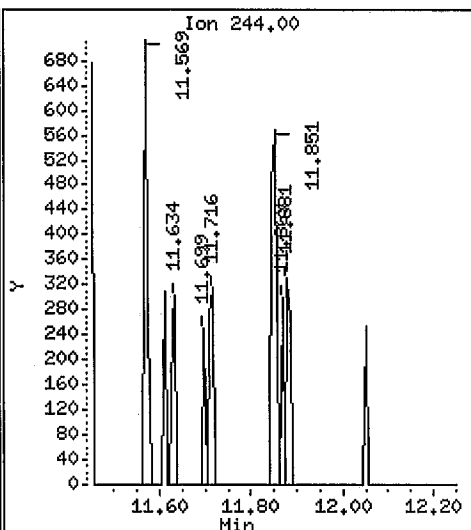
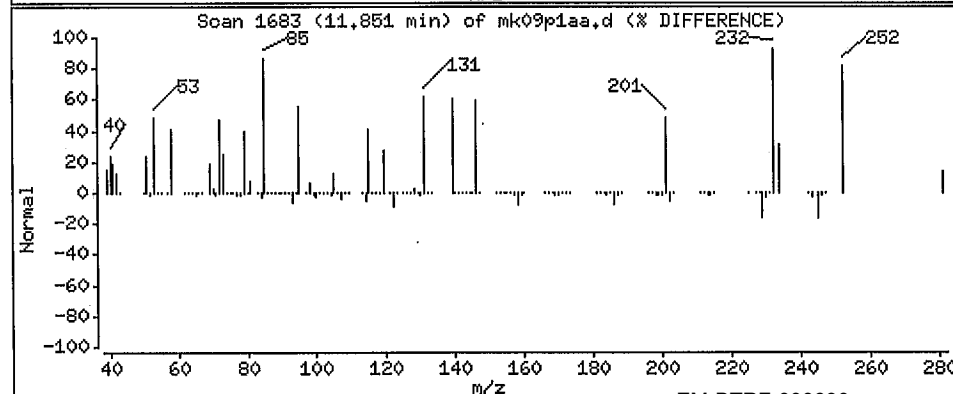
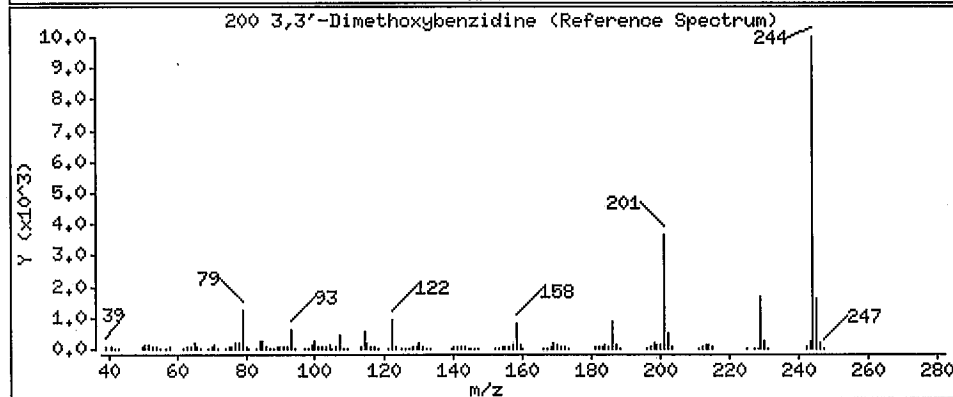
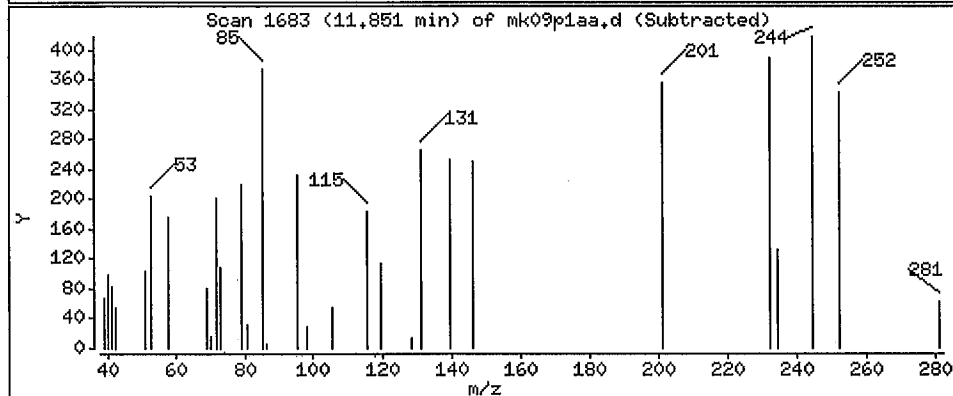
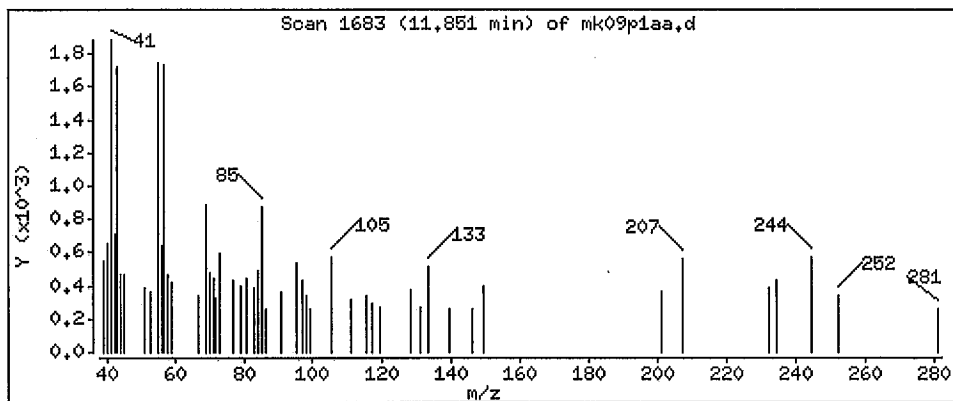
Operator: 60841

Column phase: Rxi-5 Sil MS

Column diameter: 0.25

200 3,3'-Dimethoxybenzidine

Concentration: 24.7 ug



Data File: /var/chem/gcms/md,i/D072711.b/mk09p1aa.d

Date: 27-JUL-2011 21:38

Client ID: EXH-SRU-M0010-R1-C0

Instrument: md,i

Sample Info: MK09P1AA,,0,,

Volume Injected (uL): 1.0

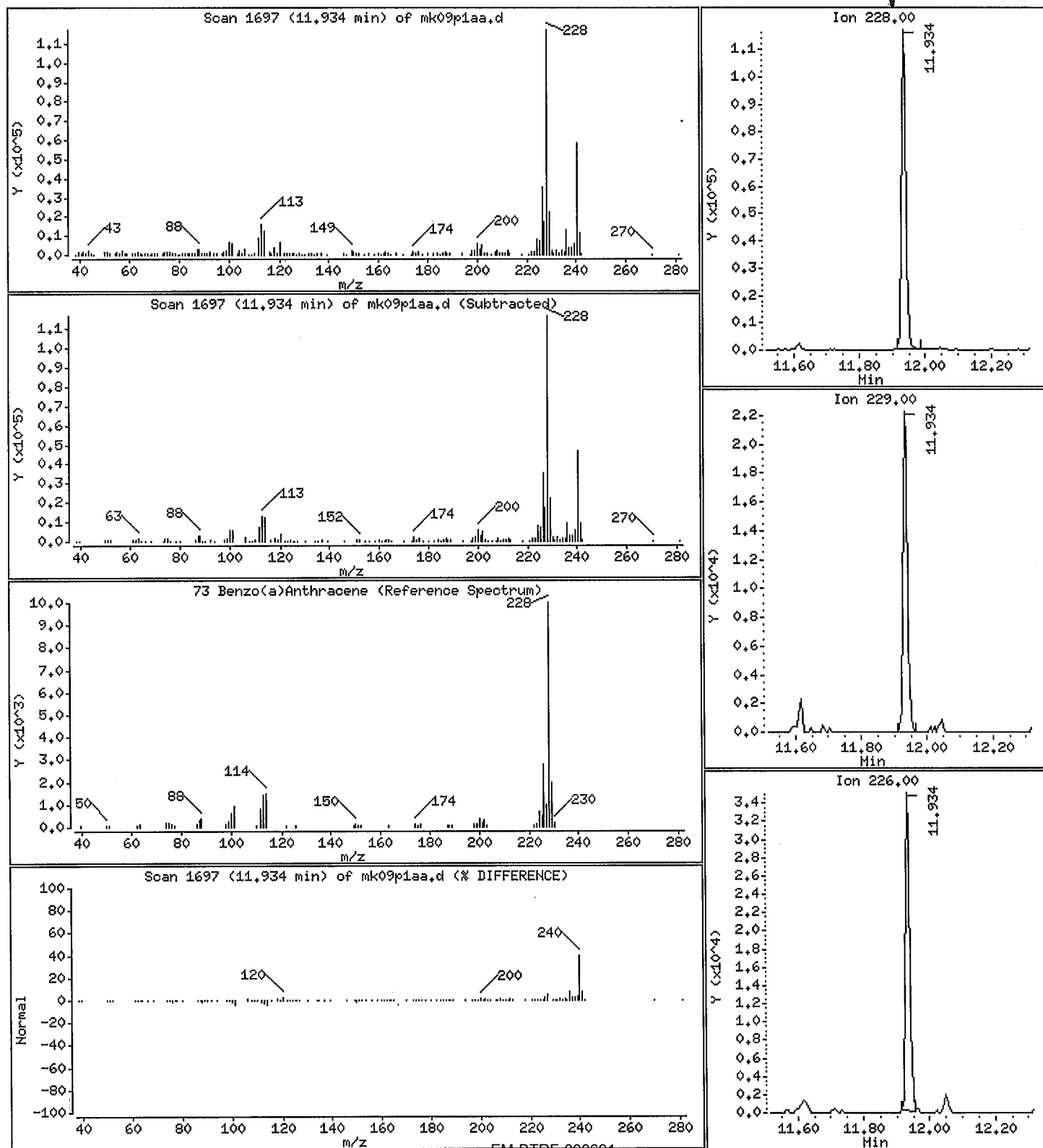
Operator: 60841

Column phase: Rxi-5 Sil MS

Column diameter: 0.25

73 Benzo(a)Anthracene

Concentration: 16.9 ug

*triphenylene?**2005.11*

Data File: /var/chem/gcms/md.i/D072711.b/mk09p1aa.d

Date : 27-JUL-2011 21:38

Client ID: EXH-SRU-M0010-R1-C0

Instrument: md.i

Sample Info: MK09P1AA,,0,,

Volume Injected (uL): 1.0

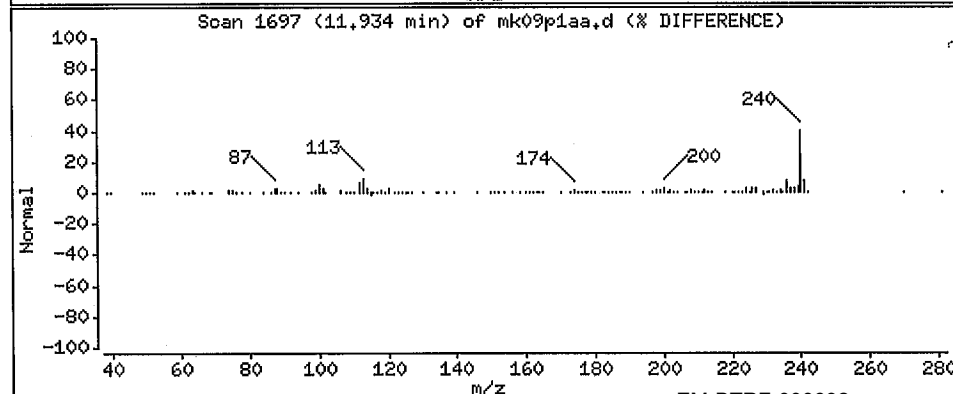
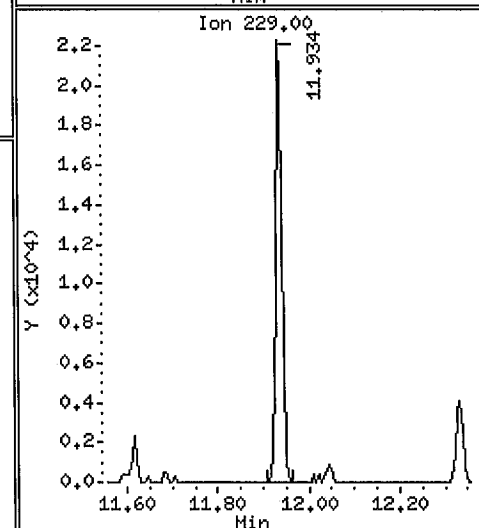
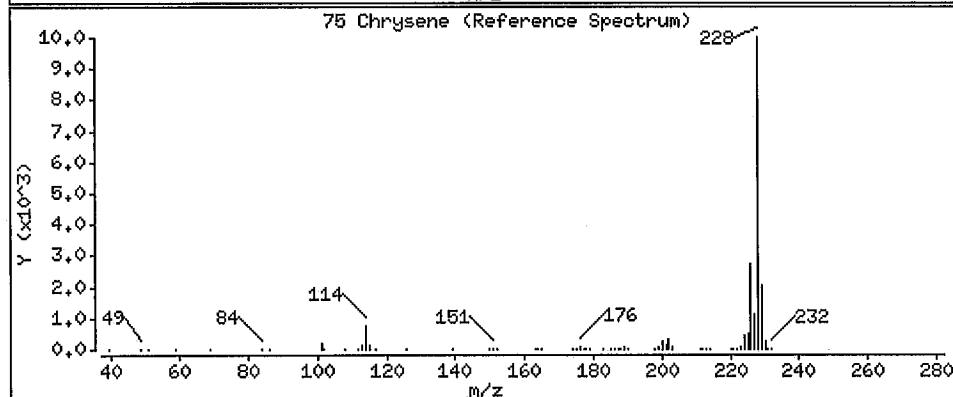
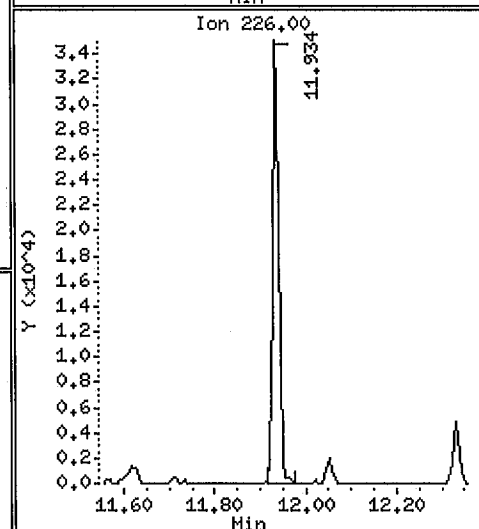
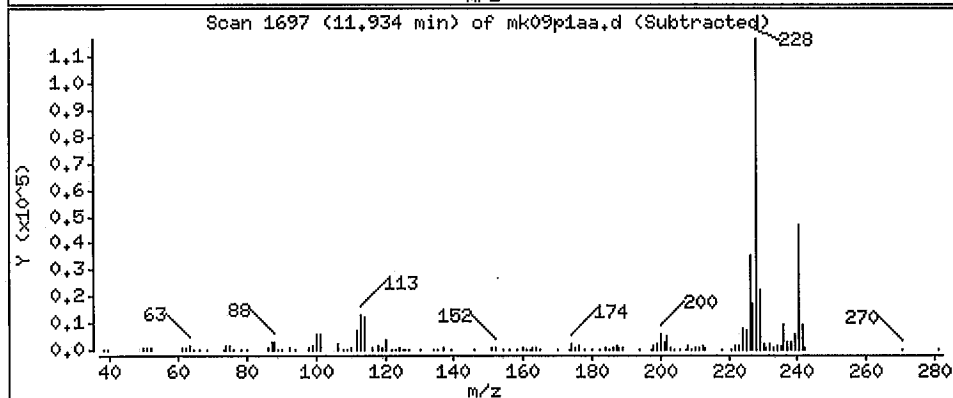
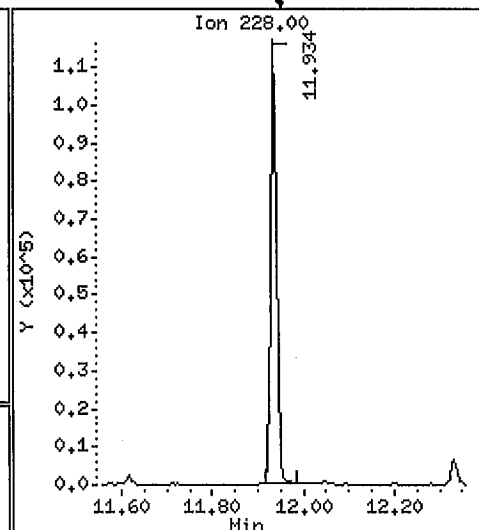
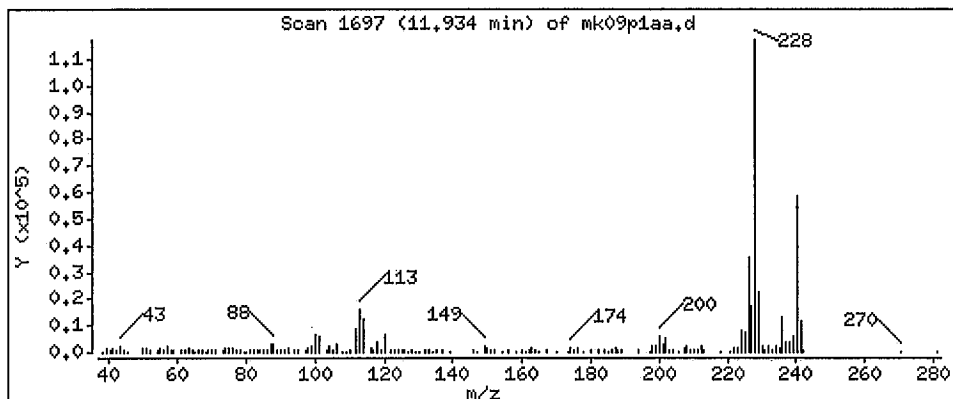
Operator: 60841

Column phase: Rxi-5 Sil MS

Column diameter: 0.25

75 Chrysene

Concentration: 15.8 ug



EM-BTRF-000692

Data File: /var/chem/gcms/md.i/D072711.b/mk09p1aa.d

Date : 27-JUL-2011 21:38

Client ID: EXH-SRU-M0010-R1-C0

Instrument: md.i

Sample Info: MK09P1AA,,0,,

Volume Injected (uL): 1.0

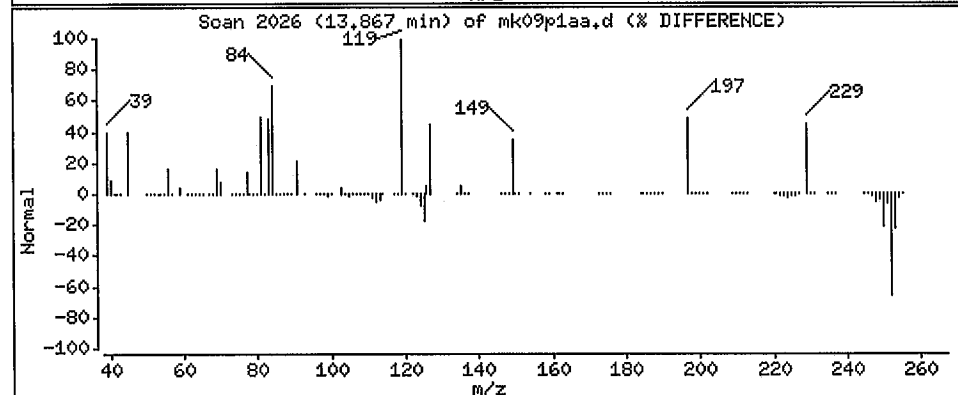
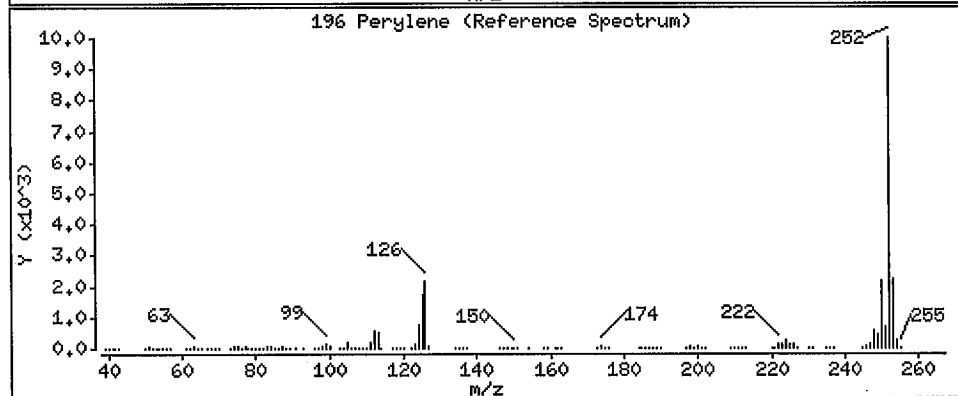
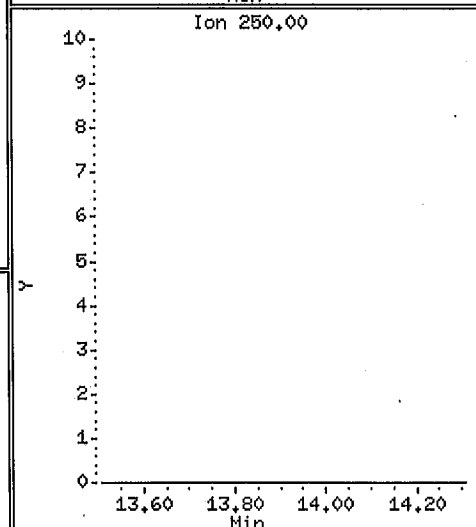
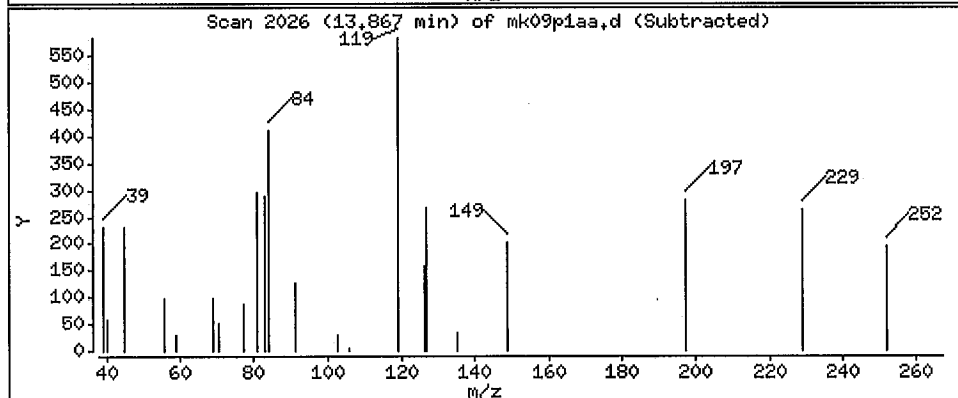
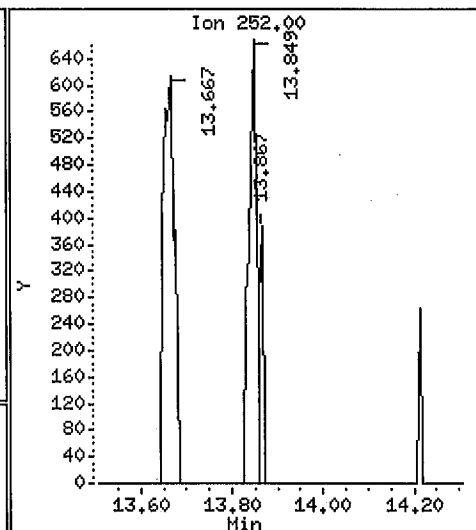
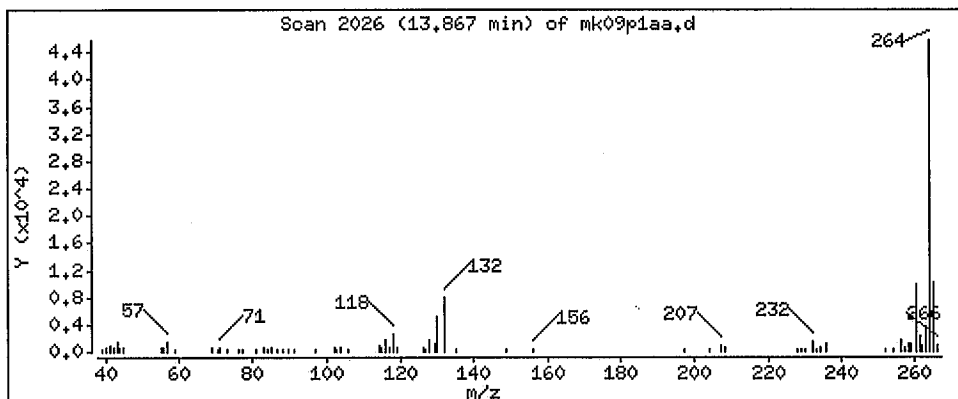
Operator: 60841

Column phase: Rxi-5 Sil MS

Column diameter: 0.25

196 Perylene

Concentration: 0.0372 ug



EM-BTRF-000693

TRC Environmental Corporation

Client Sample ID: EXM-SRU-M0010-R2-COMBINED

GC/MS Semivolatiles

Lot-Sample #....: H1G190403-002 Work Order #....: MK09Q1AA Matrix.....: AIR
 Date Sampled....: 07/08/11 Date Received...: 07/19/11
 Prep Date.....: 07/20/11 Analysis Date...: 07/27/11
 Prep Batch #....: 1201076
 Dilution Factor: 2 Method.....: SW846 8270C

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acenaphthene	ND	20	ug	5.4
Acenaphthylene	ND	20	ug	5.6
Aniline	ND	20	ug	17
Anthracene	ND	20	ug	6.4
Benz (a) anthracene	17 J, CI	20	ug	6.2
Benzidine	ND	200	ug	120
Benzo (b) fluoranthene	ND	20	ug	8.2
Benzo (k) fluoranthene	ND	20	ug	9.8
Benzo (ghi) perylene	ND	20	ug	6.4
Benzo (a) pyrene	ND	20	ug	7.6
Benzo (e) pyrene	ND	20	ug	1.7
Biphenyl	8.3 J	20	ug	2.0
Chrysene	ND	20	ug	6.2
Cresols (total)	ND	20	ug	16
Dibenz (a, h) anthracene	ND	20	ug	6.0
Dibenzofuran	ND	20	ug	5.6
Dibenzo (a, e) pyrene	ND	20	ug	1.4
3,3'-Dimethoxybenzidine	ND	200	ug	28
p-Dimethylaminoazobenzene	ND	20	ug	4.8
7,12-Dimethylbenz (a) - anthracene	ND	20	ug	7.0
3,3'-Dimethylbenzidine	ND	200	ug	36
alpha, alpha-Dimethylphenethyla mine	ND	50	ug	17
2,4-Dimethylphenol	ND	20	ug	13
Fluoranthene	ND	20	ug	7.2
Fluorene	ND	20	ug	6.0
Indeno (1,2,3-cd) pyrene	ND	20	ug	6.2
Isophorone	ND	20	ug	5.6
3-Methylcholanthrene	ND	20	ug	7.6
2-Methylnaphthalene	ND	20	ug	5.8
Naphthalene	11 J	20	ug	6.2
Nitrobenzene	ND	20	ug	5.8
Perylene	ND	20	ug	1.5
Phenanthrene	7.2 J	20	ug	6.0
Phenol	ND	20	ug	6.2
1,4-Phenylenediamine	ND	200	ug	50
Pyrene	11 J, CI	20	ug	7.0
o-Toluidine	ND	20	ug	5.6

(Continued on next page)

TRC Environmental Corporation

Client Sample ID: EXM-SRU-M0010-R2-COMBINED

GC/MS Semivolatiles

Lot-Sample #....: H1G190403-002 Work Order #....: MK09Q1AA Matrix.....: AIR

SURROGATE	PERCENT	RECOVERY
	RECOVERY	LIMITS
2-Fluorophenol	67	(22 - 105)
Phenol-d5	90	(48 - 118)
Nitrobenzene-d5	75	(43 - 110)
2-Fluorobiphenyl	80	(48 - 111)
2,4,6-Tribromophenol	74	(34 - 125)

NOTE(S) :

J Estimated result. Result is less than RL.

CI See narrative.

Data File: /var/chem/gcms/md.i/D072711.b/mk09q1aa.d
 Report Date: 28-Jul-2011 11:16

TestAmerica Knoxville

Semivolatile Organic Compounds by GC/MS

Data file : /var/chem/gcms/md.i/D072711.b/mk09q1aa.d
 Lab Smp Id: MK09Q1AA Client Smp ID: EXM-SRU-M0010-R2-CO
 Inj Date : 27-JUL-2011 22:06 ✓
 Operator : 60841 Inst ID: md.i
 Smp Info : MK09Q1AA,,0,,,
 Misc Info : D072711,8270a9,ICR.sub
 Comment : Semivolatile Organic Compounds by GC/MS
 Method : /chem/gcms/md.i/D072711.b/8270a9.m
 Meth Date : 27-Jul-2011 17:16 mcgeek Quant Type: ISTD
 Cal Date : 26-JUL-2011 17:42 Cal File: a9dg267.d
 Als bottle: 16
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: ICR.sub
 Target Version: 3.50
 Processing Host: qmidhp01

Concentration Formula: $\text{Amt} * \text{DF} * (\text{Vt} * \text{Sf}) / (\text{Vo} * \text{Uf}) * \text{CpndVariable}$

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	1000.00000	Volume of final extract (uL)
Sf	2.00000	Prep split factor
Vo	1.00000	Volume of sample extracted (1=total samp
Uf	1000.00000	unit correction factor

Cpnd Variable

Local Compound Variable

Compounds	QUANT SIG	MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN (ng/uL)	FINAL (ug)
* 1 1,4-Dichlorobenzene-d4	=====	152	4.301	4.301	(1.000)	52270	20.0000	20.0
* 2 Naphthalene-d8	=====	136	5.887	5.887	(1.000)	207432	20.0000	20.0
* 3 Acenaphthene-d10	=====	164	8.484	8.484	(1.000)	124985	20.0000	20.0
* 4 Phenanthrene-d10	=====	188	9.895	9.895	(1.000)	248306	20.0000	20.0
* 5 Chrysene-d12	=====	240	11.922	11.928	(1.000)	266776	20.0000	20.0
* 6 Perylene-d12	=====	264	13.849	13.855	(1.000)	251417	20.0000	20.0
\$ 7 2-Fluorophenol	=====	112	3.138	3.126	(0.730)	146181	50.6559	101
\$ 8 Phenol-d5	=====	99	3.948	3.931	(0.918)	234404	67.7450	135
\$ 9 Nitrobenzene-d5	=====	82	4.924	4.930	(0.836)	123300	37.3012	74.6
\$ 11 2,4,6-Tribromophenol	=====	330	9.307	9.307	(0.941)	55417	55.7467	111
\$ 10 2-Fluorobiphenyl	=====	172	7.585	7.591	(0.894)	312602	39.9821	80.0
\$ 12 Terphenyl-d14	=====	244	11.040	11.046	(0.926)	5432	0.53603	1.07(R)
\$ 179 13C6-naphthalene	=====	134	5.887	5.917	(1.000)	19616	1.74020	3.48(R)

Data File: /var/chem/gcms/md.i/D072711.b/mk09q1aa.d
 Report Date: 28-Jul-2011 11:16

Compounds	QUANT SIG						CONCENTRATIONS	
	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN	FINAL	
						(ng/uL)	(ug)	
=====	=====	==	=====	=====	=====	=====	=====	
15 Phenol (ccc)	94	3.960	3.949	(0.921)	8524	2.39562	4.79	
32 2,4-Dimethyphenol	107	5.629	5.447	(0.956)	7105	2.04171	4.08	
199 Phentermine	58	5.611	5.658	(0.953)	88008	15.1880	30.4	
37 Naphthalene	128	5.917	5.923	(1.005)	54743	5.50757	11.0	
202 1,4-Phenylenediamine	108	6.581	6.499	(1.118)	3423	6.94194	13.9	
188 1,1'-Biphenyl	154	7.732	7.732	(0.911)	41196	4.15976	8.32	
53 Dibenzofuran	168	8.561	8.719	(1.009)	8653	0.88019	1.76	
56 Fluorene	166	9.072	9.078	(1.069)	7200	0.88464	1.77	
66 Phenanthrene	178	9.912	9.912	(1.002)	47919	3.60239	7.20	
67 Anthracene	178	9.912	9.953	(1.002)	47919	3.71306	7.43	
70 Fluoranthene (ccc)	202	10.952	10.788	(1.107)	79903	5.82852	11.6	
71 Pyrene	202	10.952	10.940	(0.919)	79903	5.28884	10.6	
200 3,3'-Dimethoxybenzidine	244	11.569	11.851	(0.970)	295	12.3226	24.6	
73 Benzo(a)Anthracene	228	11.933	11.916	(1.001)	110002	8.31583	16.6	
75 Chrysene	228	11.933	11.957	(1.001)	110604	7.83827	15.7	
196 Perylene	252	13.843	13.908	(1.000)	591	0.04655	0.0931	

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

KRM 7/28/11

Data File: /var/chem/gcms/md.i/D072711.b/mk09q1aa.d

Report Date: 28-Jul-2011 11:16

TestAmerica Knoxville

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: md.i

Lab File ID: mk09q1aa.d

Lab Smp Id: MK09Q1AA

Analysis Type: SV

Quant Type: ISTD

Operator: 60841

Method File: /chem/gcms/md.i/D072711.b/8270a9.m

Misc Info: D072711,8270a9,ICR.sub

Calibration Date: 27-JUL-2011

Calibration Time: 16:02

Client Smp ID: EXM-SRU-M0010-R2-CO

Level: LOW

Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
=====	=====	=====	=====	=====	=====
1 1,4-Dichlorobenze	44395	22198	88790	52270	17.74
2 Naphthalene-d8	182374	91187	364748	207432	13.74
3 Acenaphthene-d10	111075	55538	222150	124985	12.52
4 Phenanthrene-d10	217977	108988	435954	248306	13.91
5 Chrysene-d12	247793	123896	495586	266776	7.66
6 Perylene-d12	221015	110508	442030	251417	13.76

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
=====	=====	=====	=====	=====	=====
1 1,4-Dichlorobenze	4.30	3.80	4.80	4.30	0.00
2 Naphthalene-d8	5.89	5.39	6.39	5.89	0.00
3 Acenaphthene-d10	8.48	7.98	8.98	8.48	0.00
4 Phenanthrene-d10	9.89	9.39	10.39	9.89	0.00
5 Chrysene-d12	11.93	11.43	12.43	11.92	-0.05
6 Perylene-d12	13.85	13.35	14.35	13.85	-0.04

AREA UPPER LIMIT = +100% of internal standard area.

AREA LOWER LIMIT = - 50% of internal standard area.

RT UPPER LIMIT = + 0.50 minutes of internal standard RT.

RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /var/chem/gcms/md.i/D072711.b/mk09q1aa.d
 Report Date: 28-Jul-2011 11:16

TestAmerica Knoxville

RECOVERY REPORT

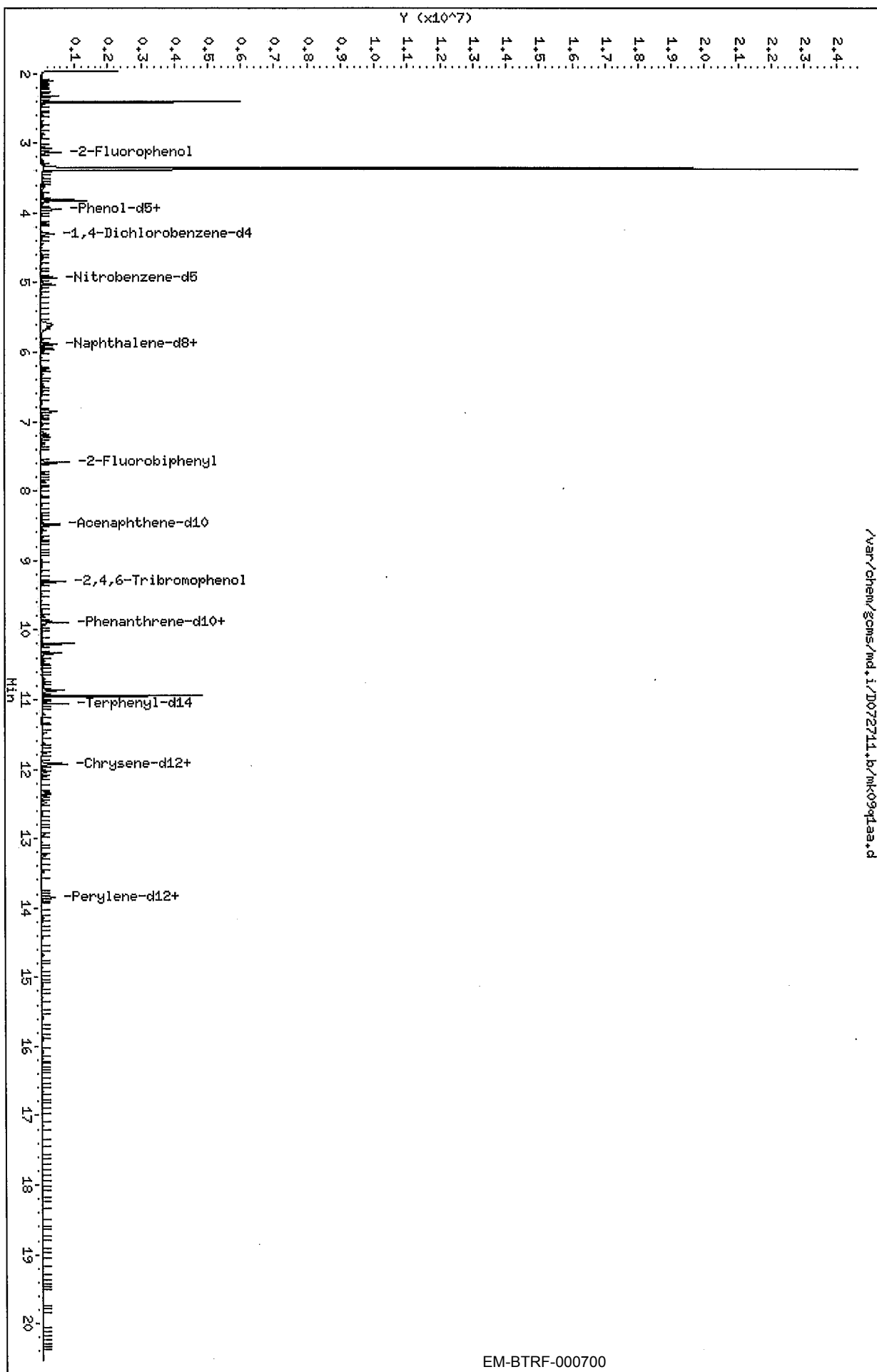
Client Name: TRC Environmental Co19-JUL-2011 00:00 Client SDG: H1G190403
 Sample Matrix: GAS Fraction: SV
 Lab Smp Id: MK09Q1AA Client Smp ID: EXM-SRU-M0010-R2-CO
 Level: LOW Operator: 60841
 Data Type: MS DATA SampleType: SAMPLE
 SpikeList File: allspike.spk Quant Type: ISTD
 Sublist File: ICR.sub
 Method File: /chem/gcms/md.i/D072711.b/8270a9.m
 Misc Info: D072711,8270a9,ICR.sub

SURROGATE COMPOUND	CONC ADDED ug	CONC RECOVERED ug	% RECOVERED	LIMITS
\$ 7 2-Fluorophenol	150	101	67.54	19-100
\$ 8 Phenol-d5	150	135	90.33	15-124
\$ 9 Nitrobenzene-d5	100	74.6	74.60	42-104
\$ 11 2,4,6-Tribromophen	150	111	74.33	33-130
\$ 10 2-Fluorobiphenyl	100	80.0	79.96	51-103
\$ 12 Terphenyl-d14	100	1.07	1.07*	58-122
\$ 179 13C6-naphthalene	200	3.48	1.74*	50-150

28/5/11

Data File: /var/chem/gcms/md.i/D072711.b/mk09q1aa.d
 Date : 27-JUL-2011 22:06
 Client ID: EXH-SRJ-H0010-R2-C0
 Sample Info: MK09Q1AA,0,,,
 Volume Injected (ul): 1.0
 Column phase: Rxi-5 S11 MS

Instrument: md.i
 Operator: 60841
 Column diameter: 0.25



Data File: /var/chem/gcms/md.i/D072711.b/mk09q1aa.d

Date : 27-JUL-2011 22:06

Client ID: EXM-SRU-M0010-R2-C0

Instrument: md.i

Sample Info: MK09Q1AA,,0,,

Volume Injected (uL): 1.0

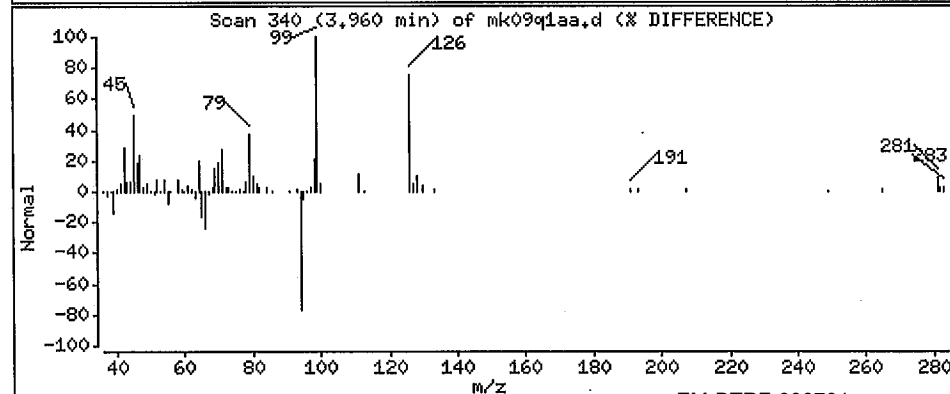
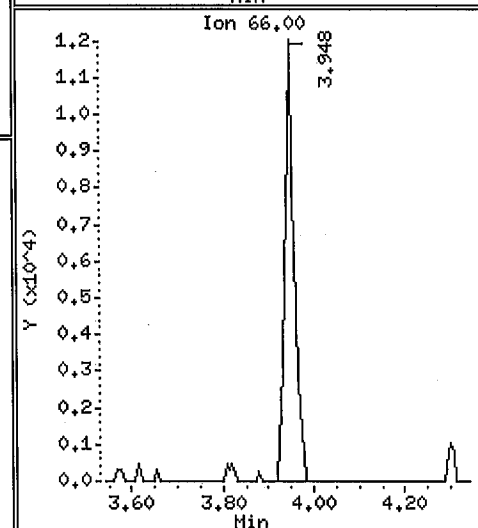
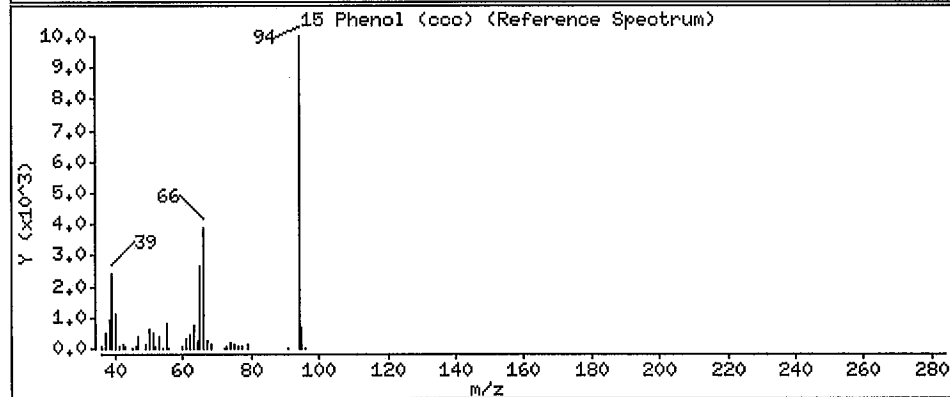
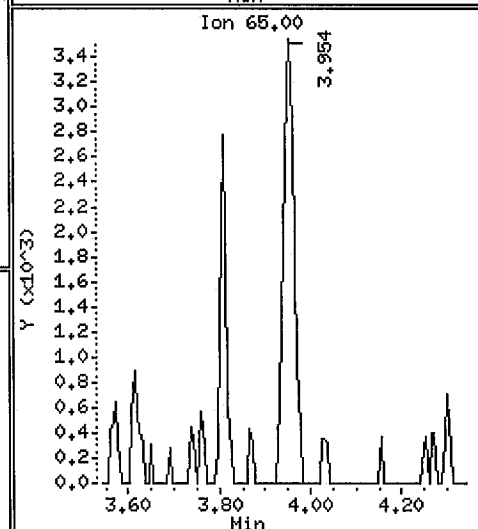
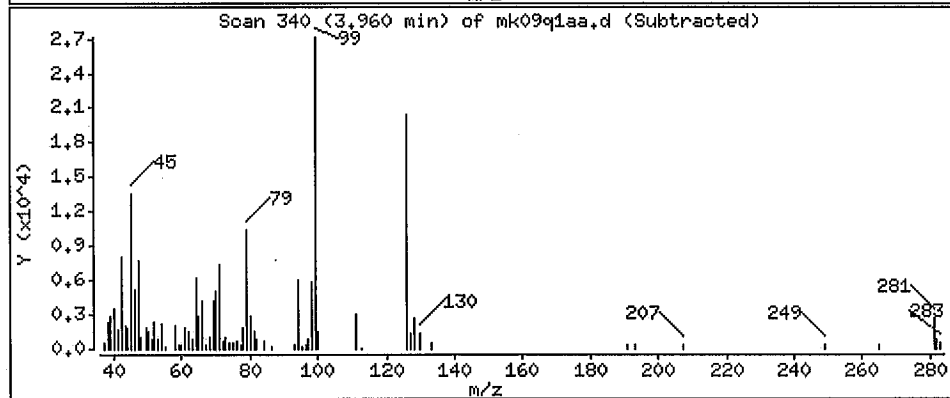
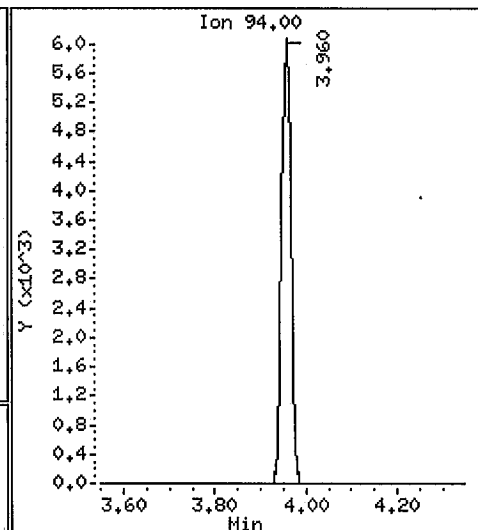
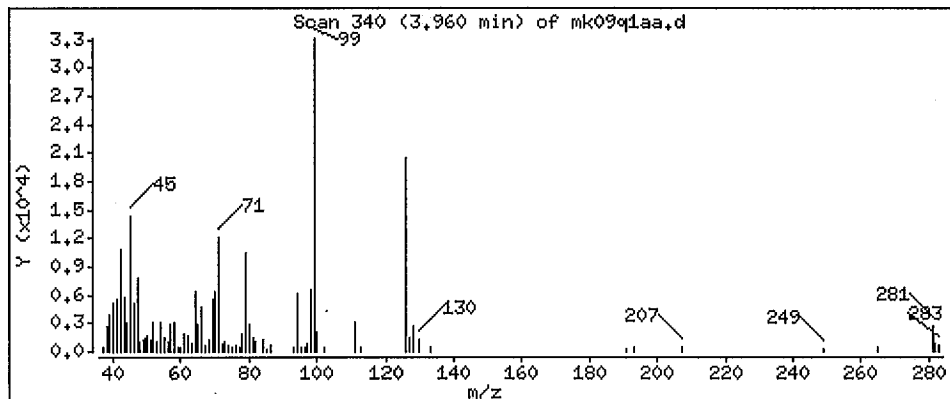
Operator: 60841

Column phase: Rxi-5 Sil MS

Column diameter: 0.25

15 Phenol (coo)

Concentration: 4.79 ug



EM-BTRF-000701

Data File: /var/chem/gcms/md,i/D072711.b/mk09q1aa.d

Date : 27-JUL-2011 22:06

Client ID: EXH-SRU-M0010-R2-C0

Instrument: md.i

Sample Info: MK09Q1AA,,0,,

Volume Injected (uL): 1.0

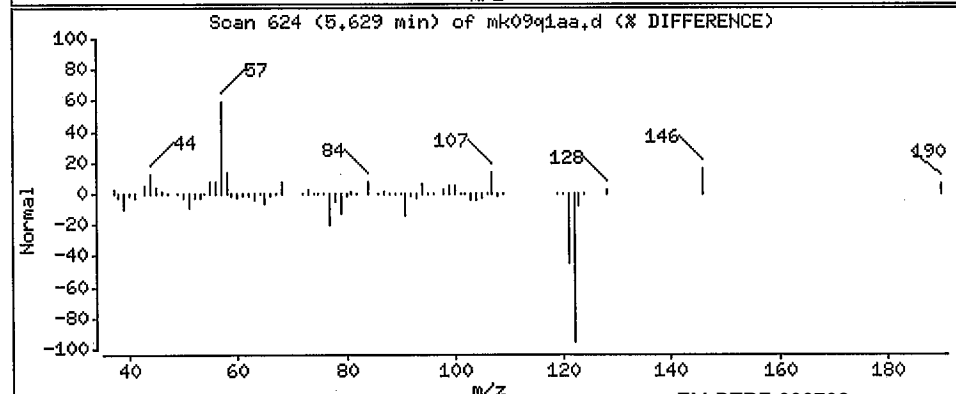
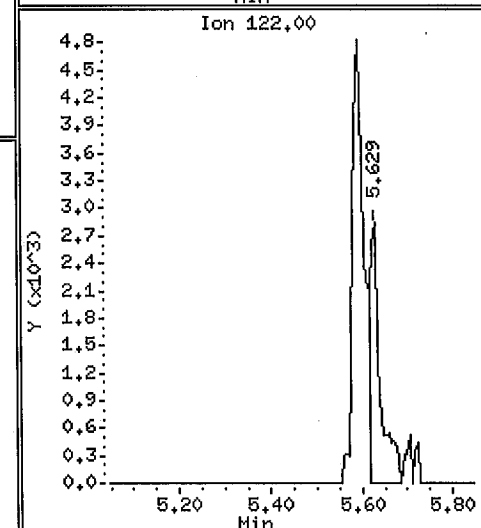
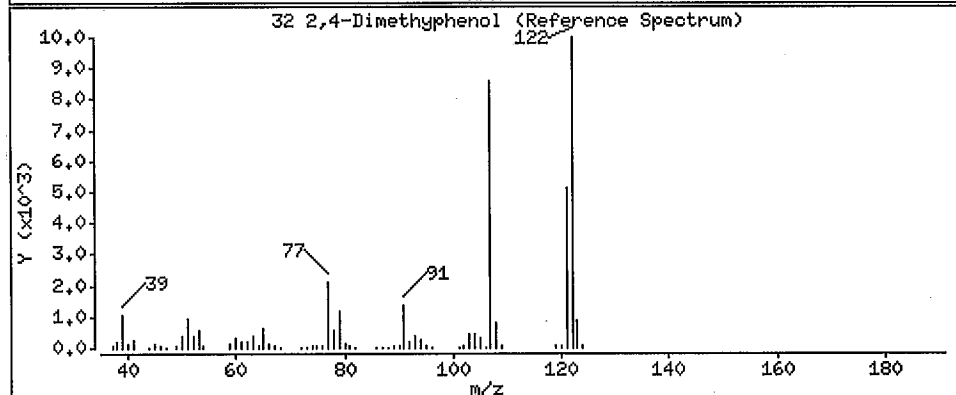
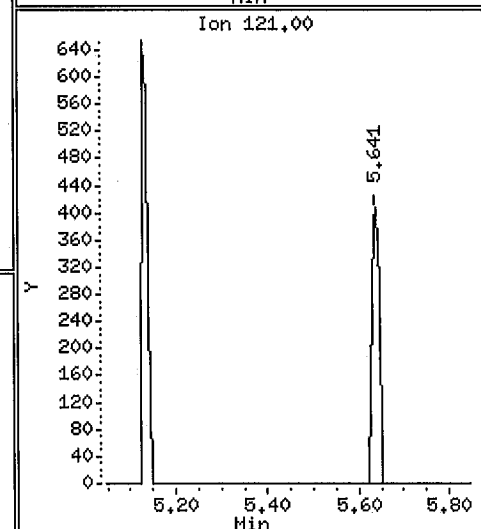
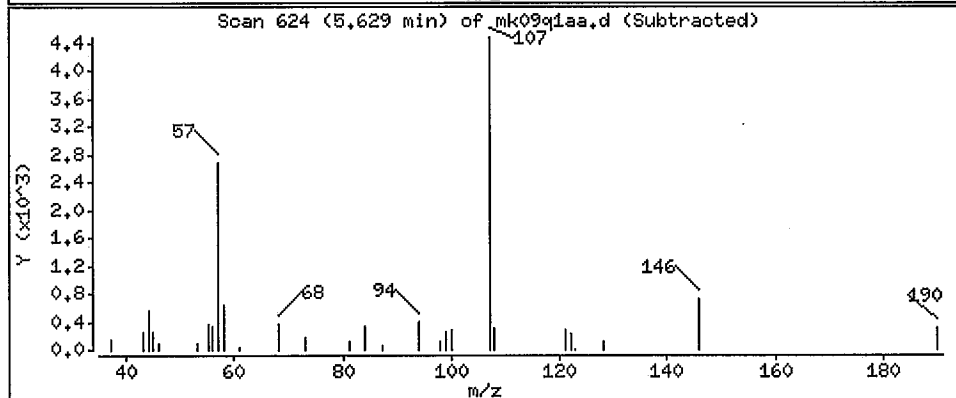
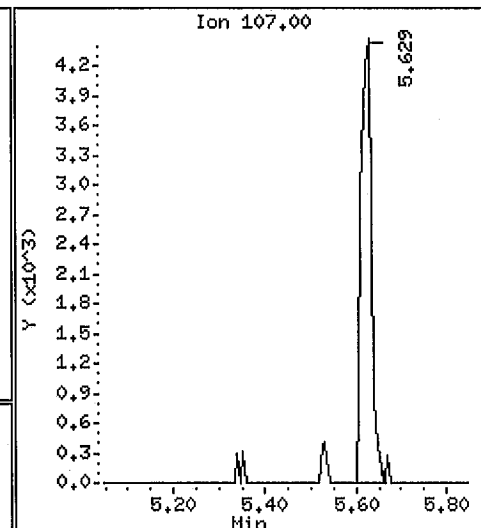
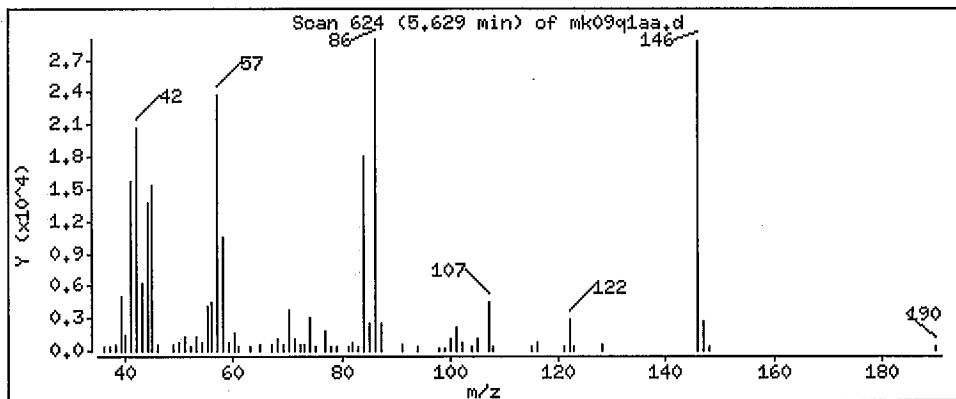
Operator: 60841

Column phase: Rxi-5 Sil MS

Column diameter: 0.25

32 2,4-Dimethoxyphenol

Concentration: 4.08 ug



EM-BTRF-000702

Data File: /var/chem/gcms/md,i/D072711.b/mk09q1aa.d

Date : 27-JUL-2011 22:06

Client ID: EXH-SRU-M0010-R2-C0

Instrument: md.i

Sample Info: MK09Q1AA,,0,,,

Volume Injected (uL): 1.0

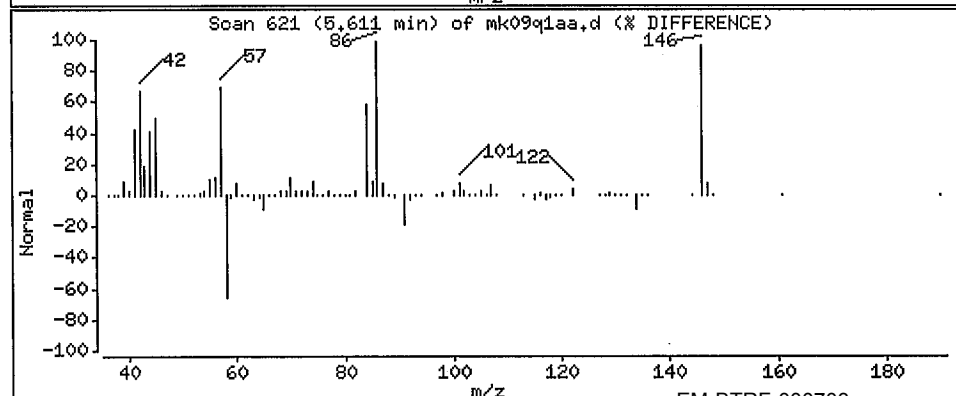
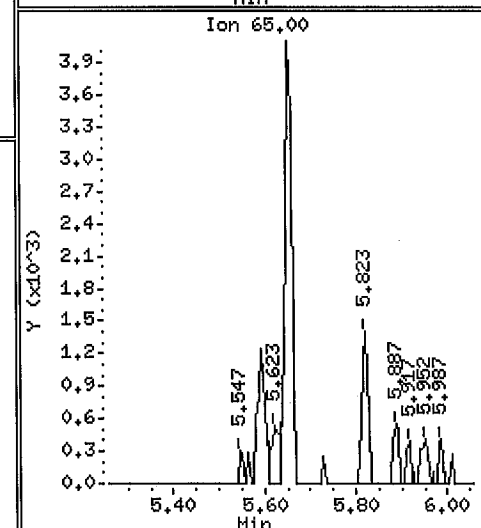
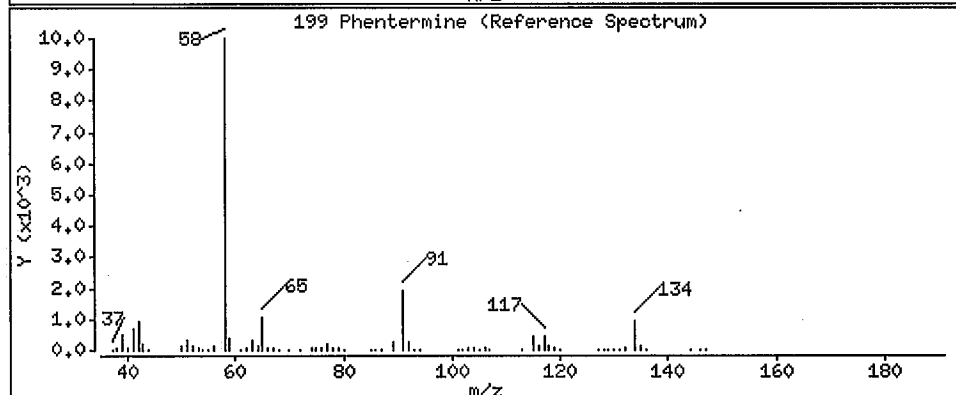
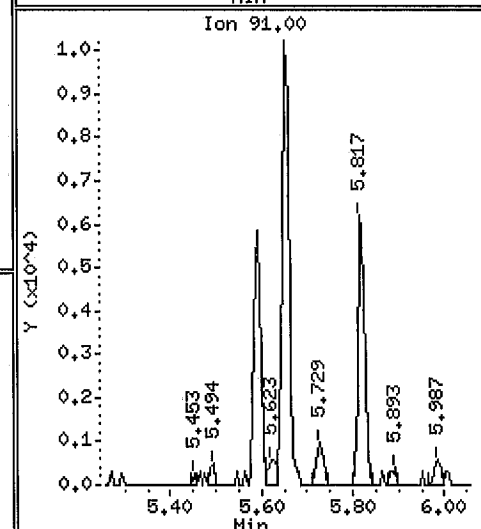
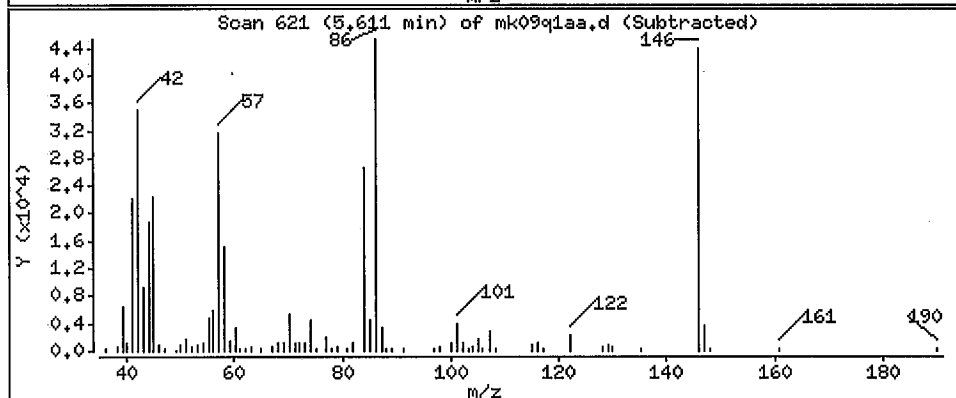
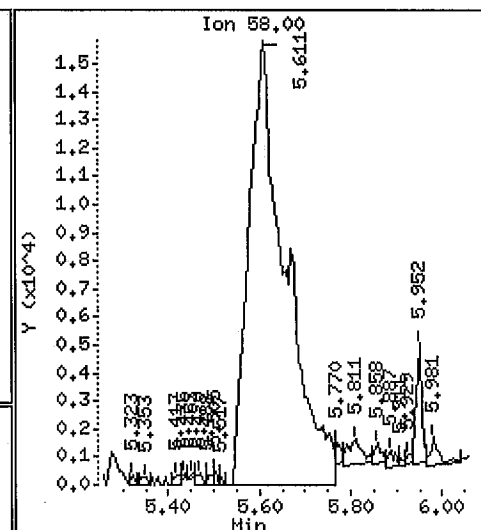
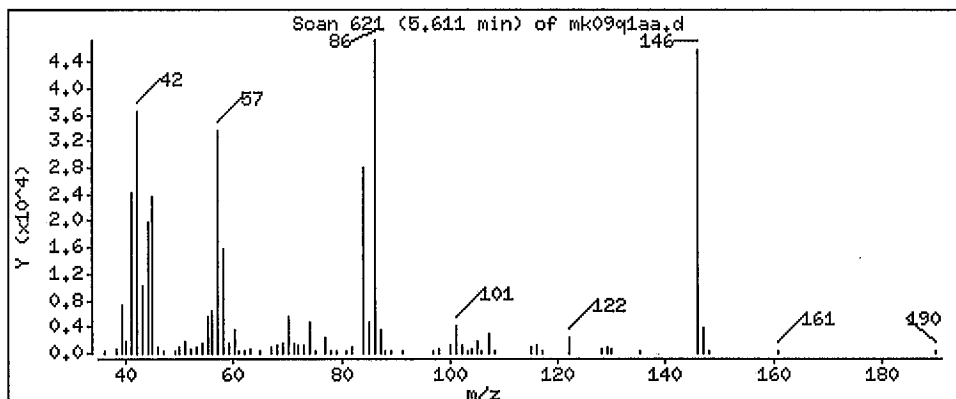
Operator: 60841

Column phase: Rxi-5 Sil MS

Column diameter: 0.25

199 Phentermine

Concentration: 30.4 ug



EM-BTRF-000703

Data File: /var/chem/gcms/md.i/D072711.b/mk09q1aa.d

Date : 27-JUL-2011 22:06

Client ID: EXH-SRU-M0010-R2-C0

Instrument: md.i

Sample Info: MK09Q1AA,,0,,,

Volume Injected (uL): 1.0

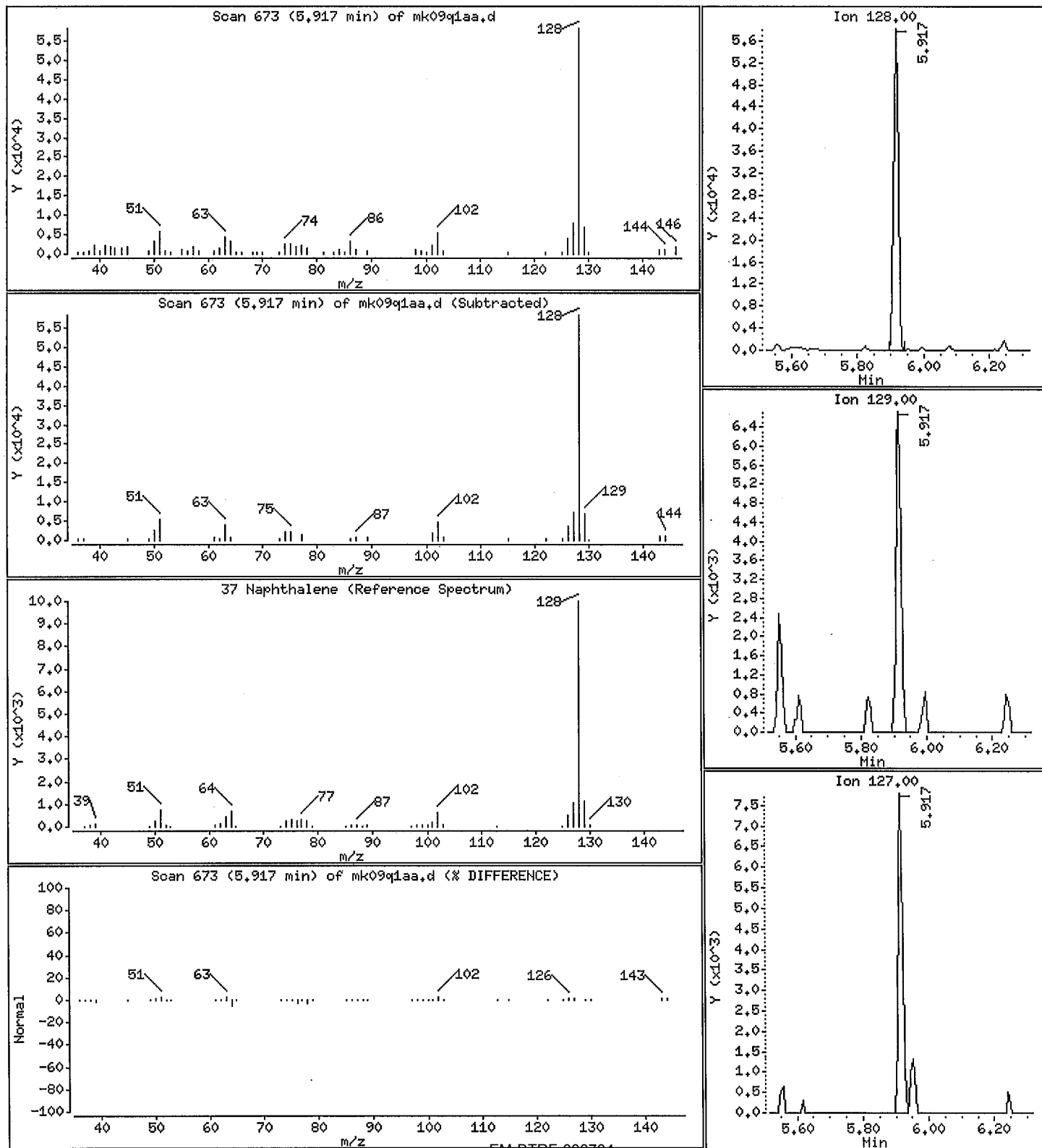
Operator: 60841

Column phase: Rxi-5 Sil MS

Column diameter: 0.25

37 Naphthalene

Concentration: 11.0 ug



Data File: /var/chem/gcms/md,i/D072711,b/mk09q1aa,d

Date : 27-JUL-2011 22:06

Client ID: EXH-SRU-M0010-R2-C0

Instrument: md,i

Sample Info: MK09Q1AA,,0,,,

Volume Injected (uL): 1.0

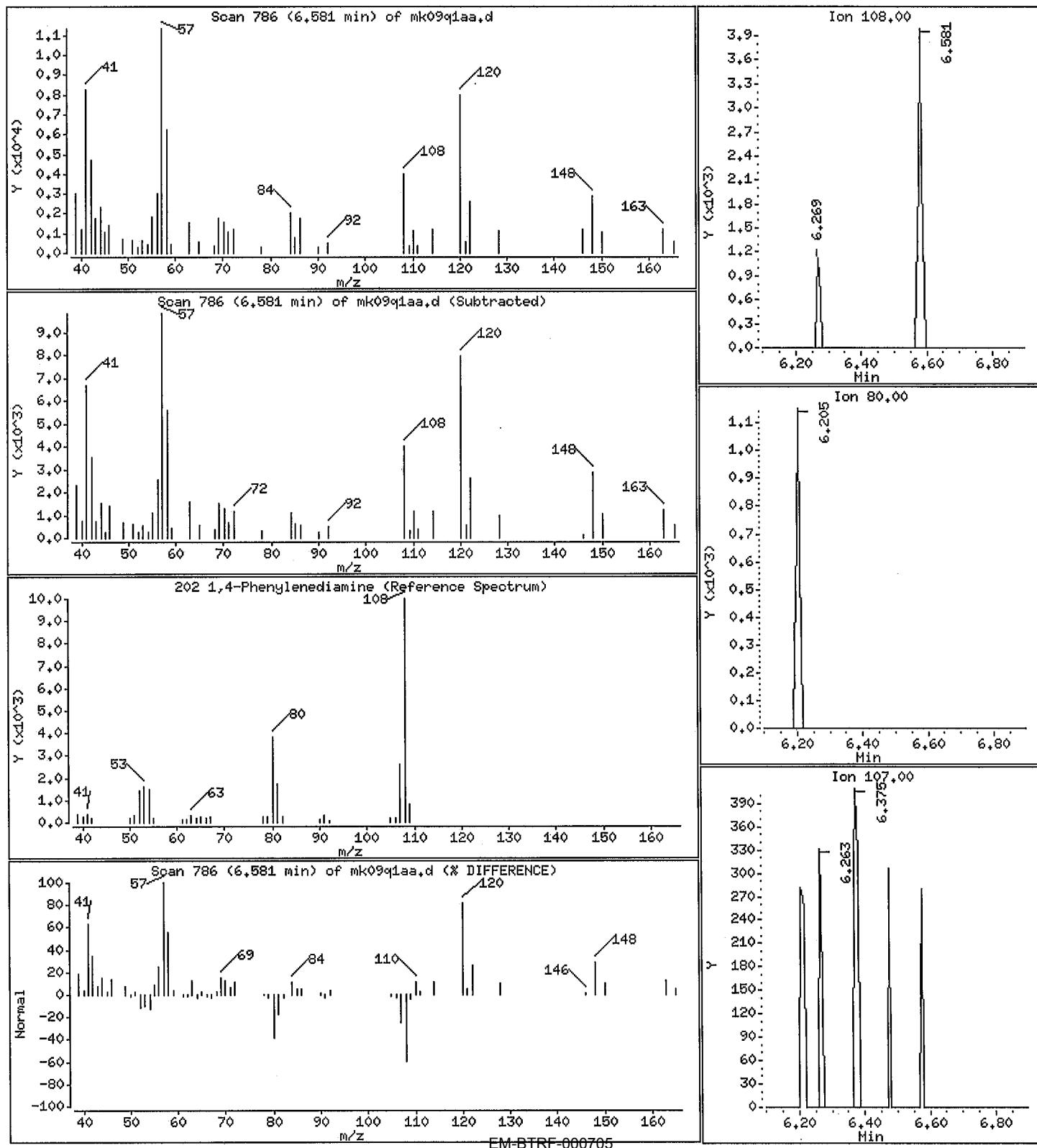
Operator: 60841

Column phase: Rxi-5 Sil MS

Column diameter: 0.25

202 1,4-Phenylenediamine

Concentration: 13.9 ug



Data File: /var/chem/gcms/md,i/D072711,b/mk09q1aa,d

Date : 27-JUL-2011 22:06

Client ID: EXH-SRU-M0010-R2-C0

Instrument: md,i

Sample Info: MK09Q1AA,,0,,,

Volume Injected (uL): 1.0

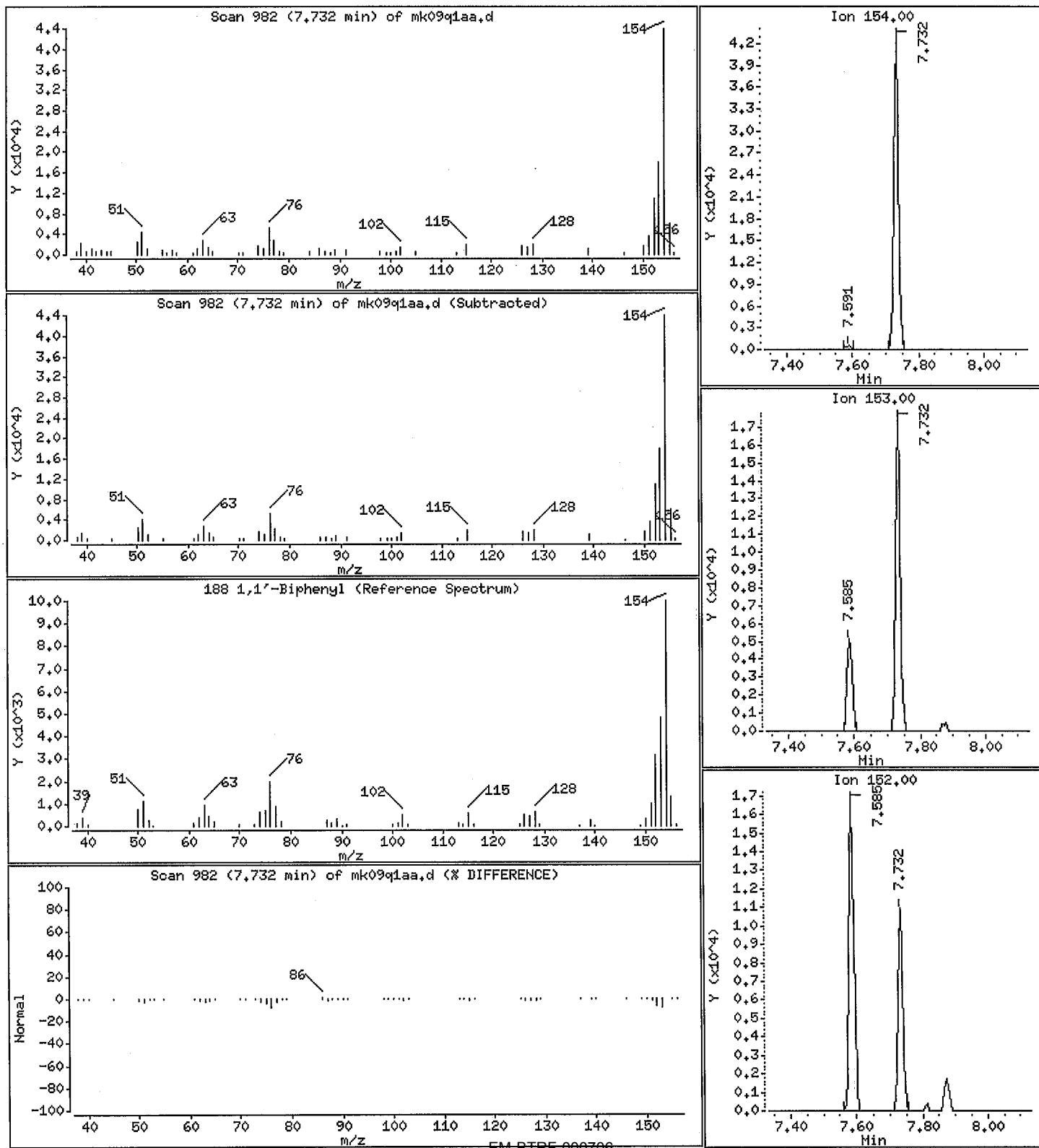
Operator: 60841

Column phase: Rxi-5 Sil MS

Column diameter: 0.25

188 1,1'-Biphenyl

Concentration: 8.32 ug



Data File: /var/chem/gcms/md,i/D072711.b/mk09q1aa.d

Date : 27-JUL-2011 22:06

Client ID: EXH-SRU-M0010-R2-C0

Instrument: md,i

Sample Info: MK09Q1AA,,0,,

Volume Injected (uL): 1.0

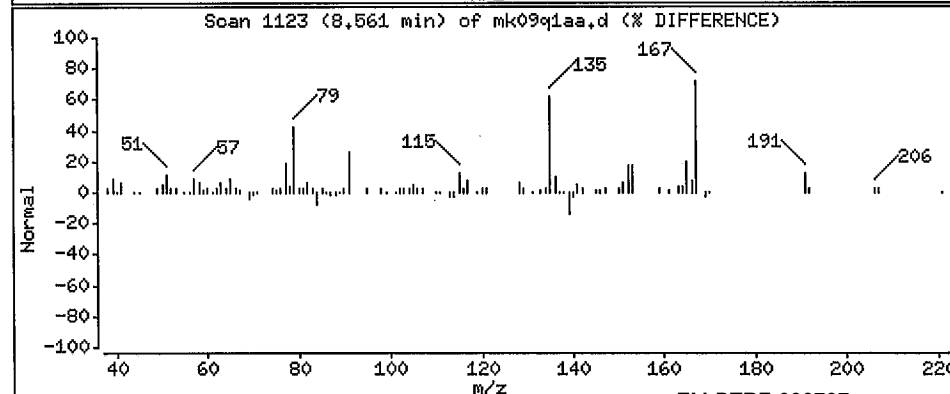
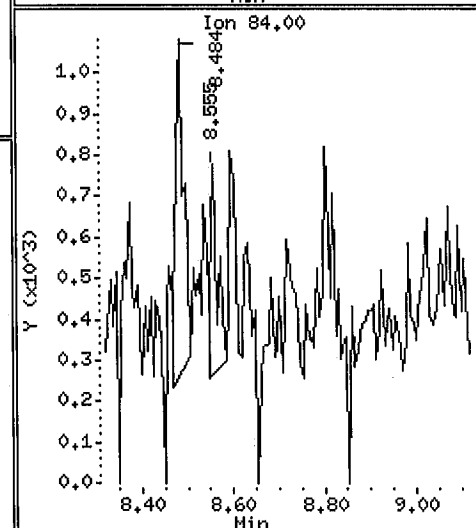
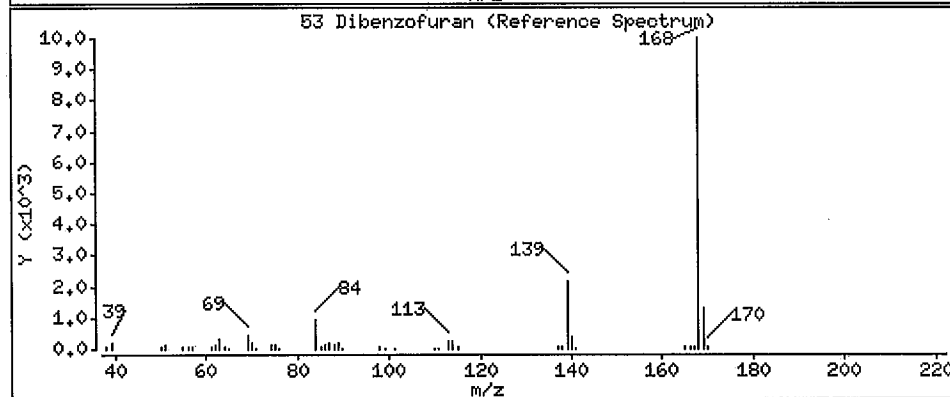
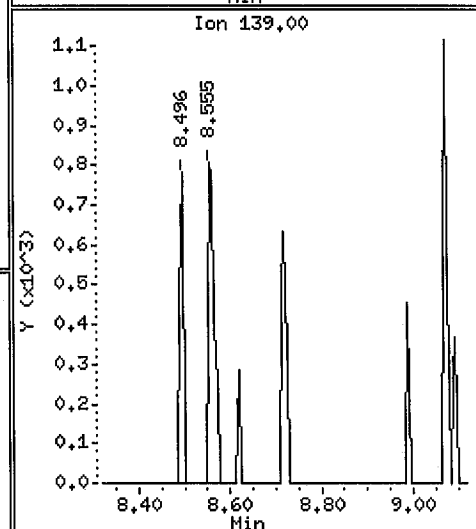
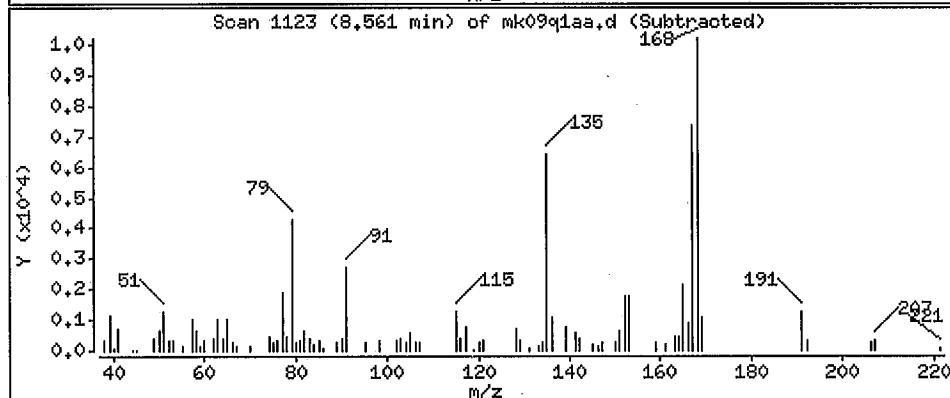
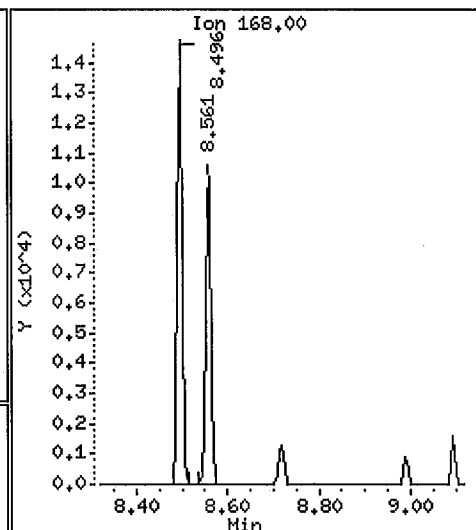
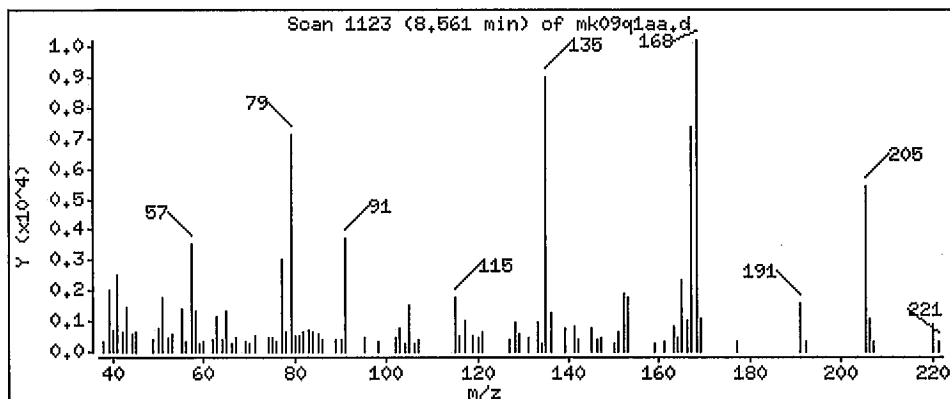
Operator: 60841

Column phase: Rxi-5 Sil MS

Column diameter: 0.25

53 Dibenzofuran

Concentration: 1.76 ug



EM-BTRF-000707

Data File: /var/chem/gcms/md.i/D072711.b/mk09q1aa.d

Date : 27-JUL-2011 22:06

Client ID: EXH-SRU-M0010-R2-C0

Instrument: md.i

Sample Info: MK09Q1AA,,0,,

Volume Injected (uL): 1.0

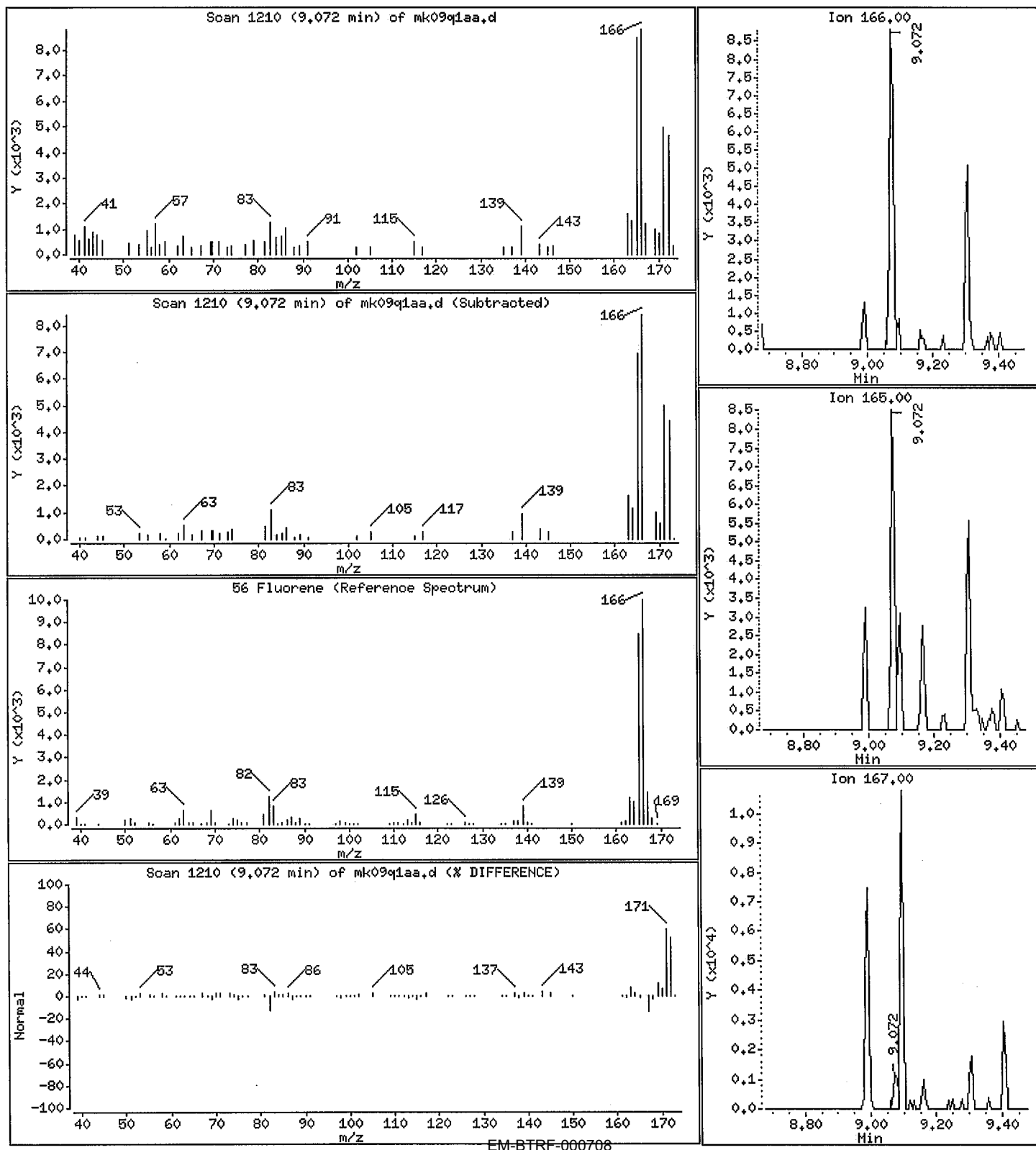
Operator: 60841

Column phase: Rxi-5 Sil MS

Column diameter: 0.25

56 Fluorene

Concentration: 1.77 ug



EM-BTRF-000706

Data File: /var/chem/gcms/md,i/D072711,b/mk09q1aa,d

Date : 27-JUL-2011 22:06

Client ID: EXH-SRU-M0010-R2-C0

Instrument: md,i

Sample Info: MK09Q1AA,,0,,

Volume Injected (uL): 1.0

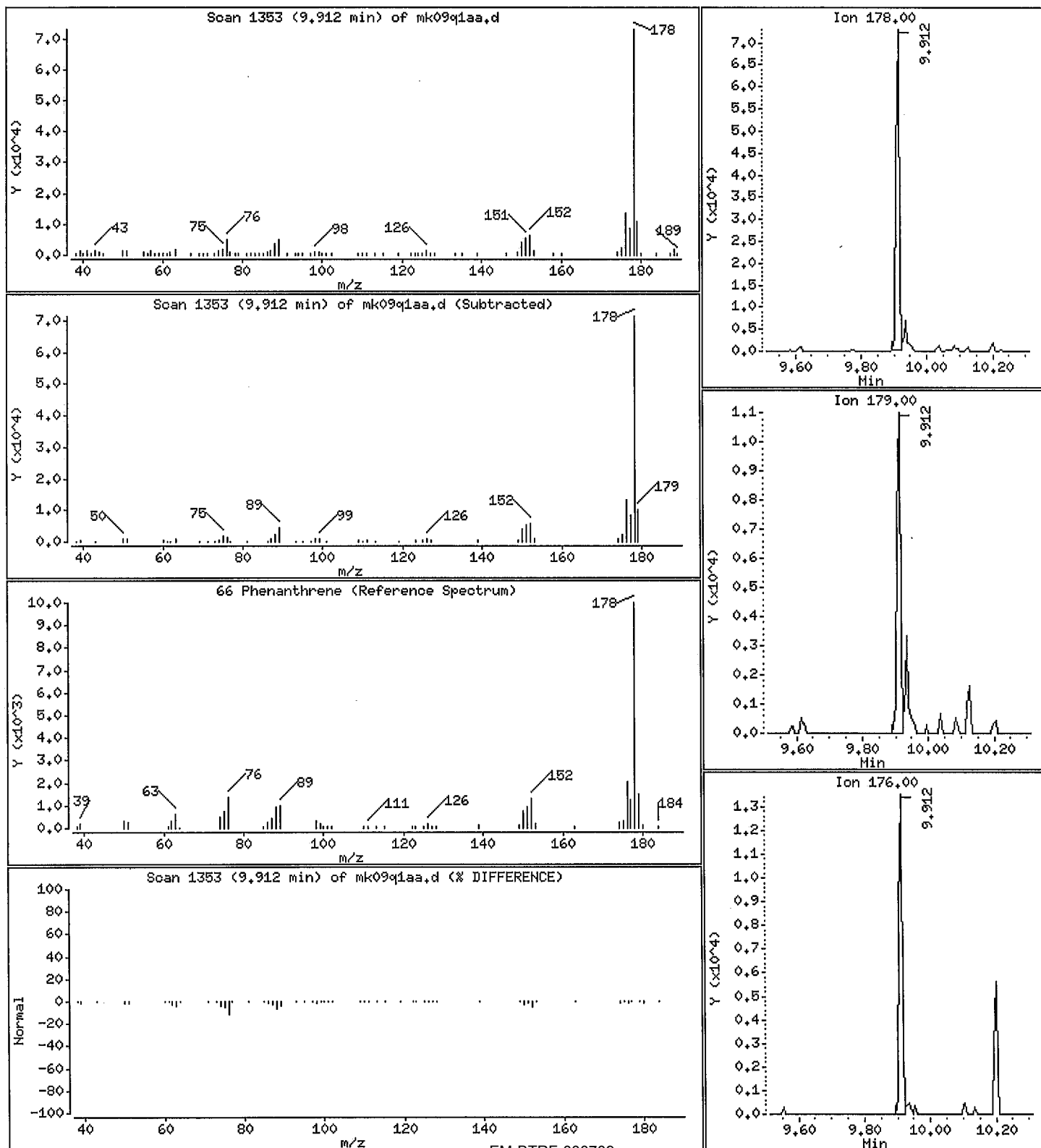
Operator: 60841

Column phase: Rxi-5 Sil MS

Column diameter: 0.25

66 Phenanthrene

Concentration: 7.20 ug



EM-BTRF-000709

Data File: /var/chem/gcms/md,i/D072711,b/mk09q1aa,d

Date : 27-JUL-2011 22:06

Client ID: EXH-SRU-M0010-R2-C0

Instrument: md,i

Sample Info: MK09Q1AA,,0,,,

Volume Injected (uL): 1.0

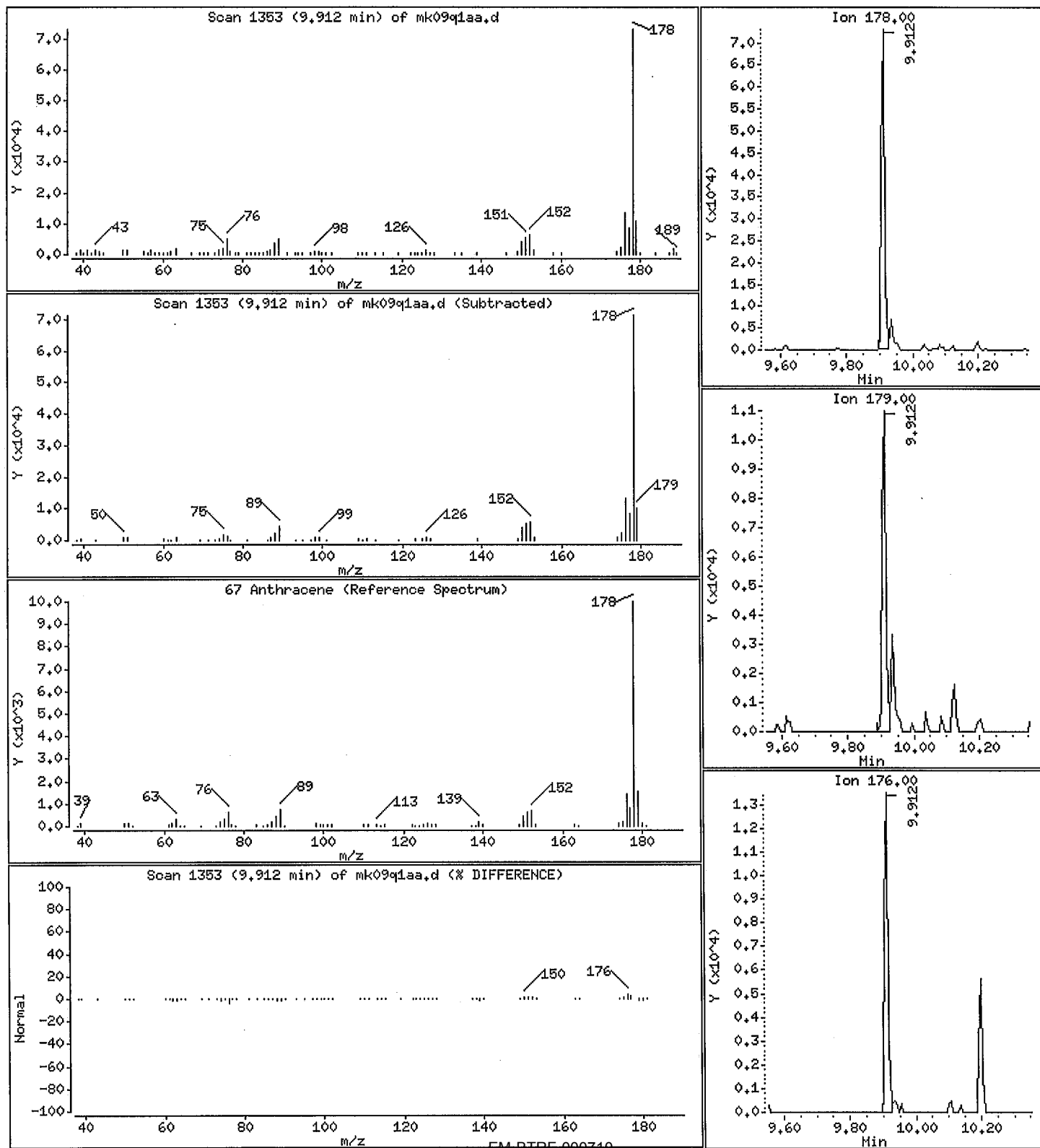
Operator: 60841

Column phase: Rxi-5 Sil MS

Column diameter: 0.25

67 Anthracene

Concentration: 7.43 ug



Data File: /var/chem/gcms/md,i/D072711,b/mk09q1aa,d

Date: 27-JUL-2011 22:06

Client ID: EXH-SRU-H0010-R2-C0

Instrument: md,i

Sample Info: MK09Q1AA,,0,,,

Volume Injected (uL): 1.0

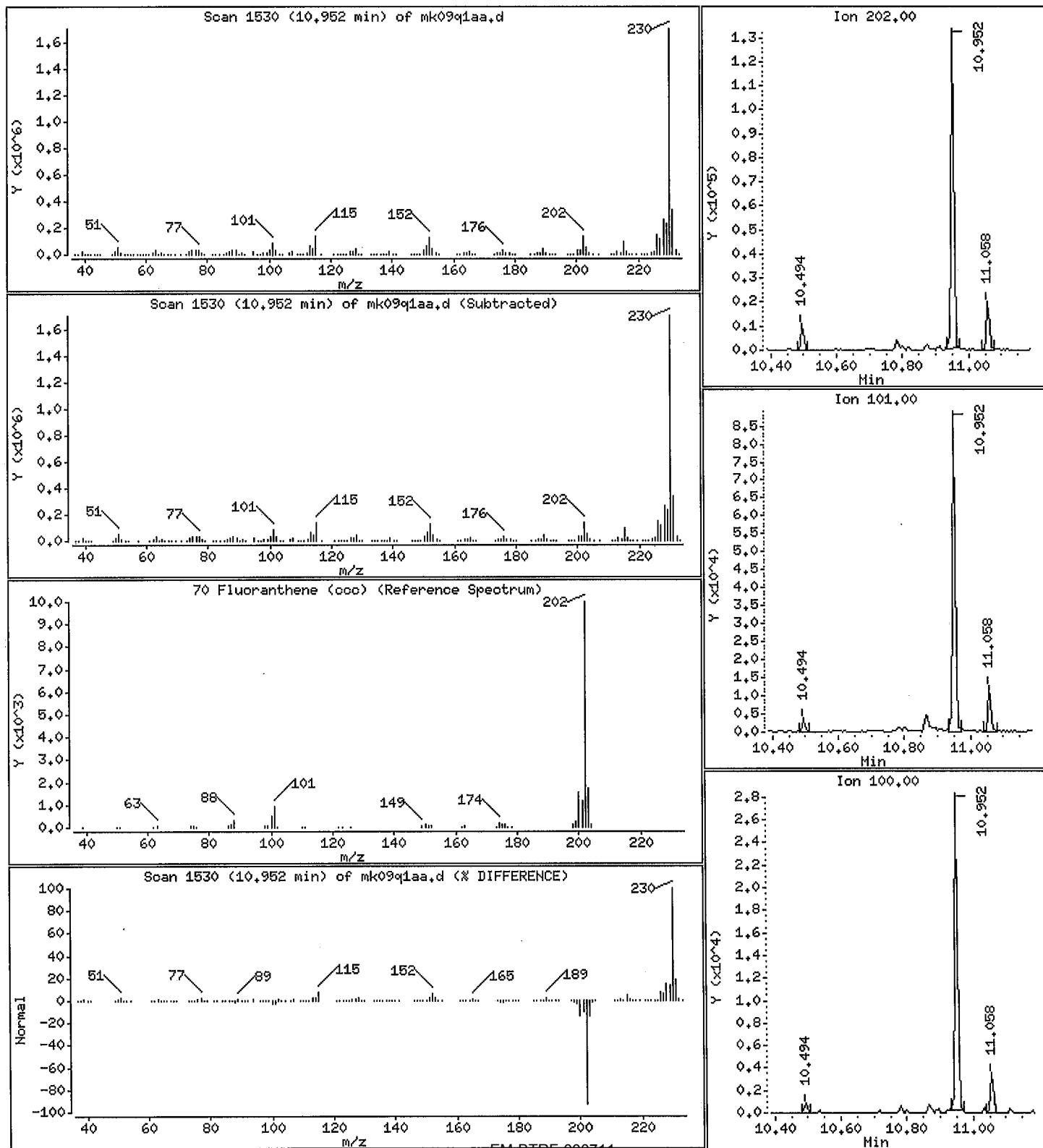
Operator: 60841

Column phase: Rxi-5 Sil MS

Column diameter: 0.25

70 Fluoranthene (ooo)

Concentration: 11.6 ug



EM-BTRF-000711

Data File: /var/chem/gcms/md,i/D072711.b/mk09q1aa.d

Date : 27-JUL-2011 22:06

Client ID: EXH-SRU-M0010-R2-C0

Instrument: md,i

Sample Info: MK09Q1AA,,0,,

Volume Injected (uL): 1.0

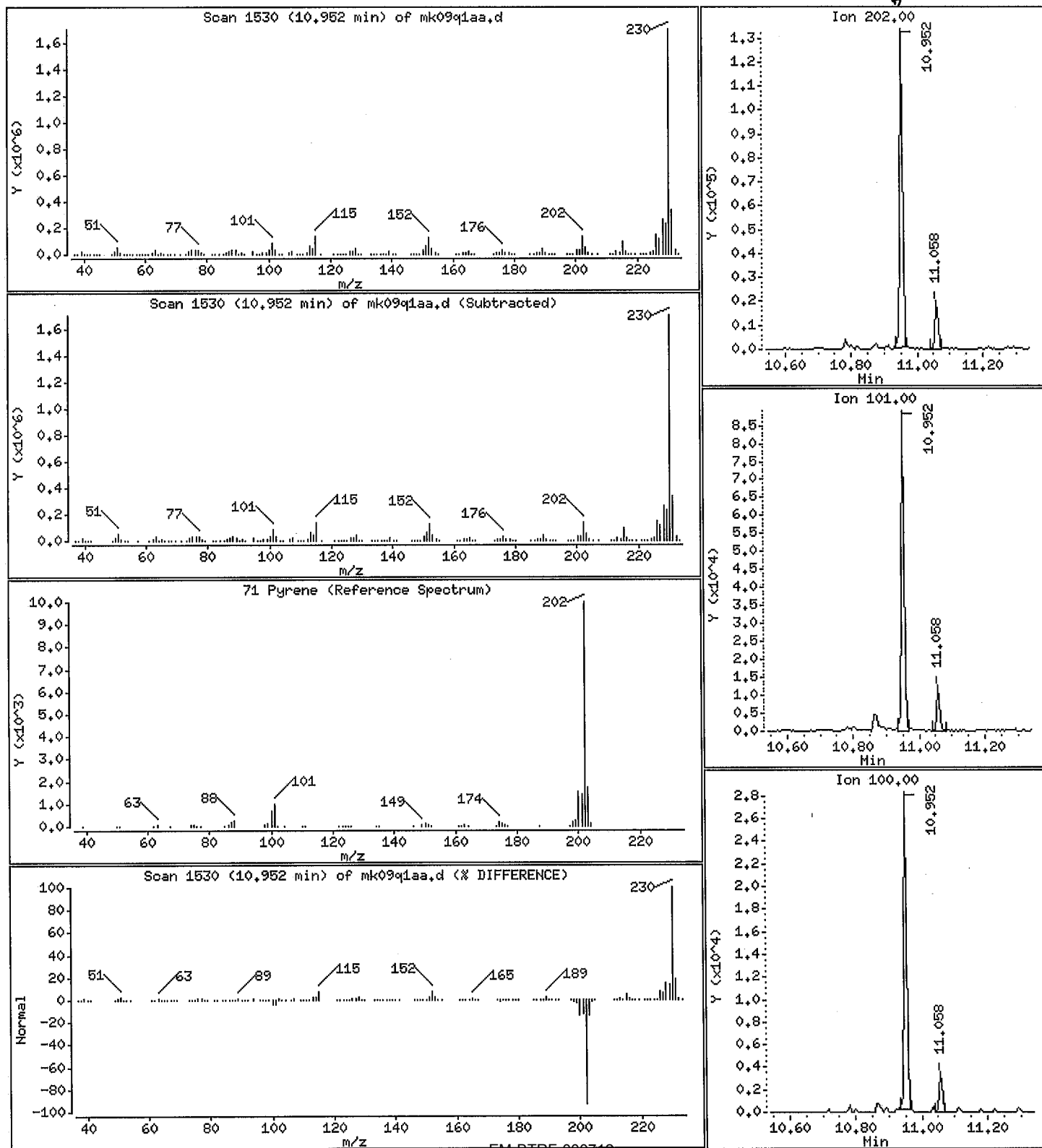
Operator: 60841

Column phase: Rxi-5 Sil MS

Column diameter: 0.25

71 Pyrene

Concentration: 10.6 ug



Data File: /var/chem/gcms/md,i/D072711,b/mk09q1aa,d

Date : 27-JUL-2011 22:06

Client ID: EXH-SRU-M0010-R2-C0

Instrument: md,i

Sample Info: MK09Q1AA,,0,,

Volume Injected (uL): 1.0

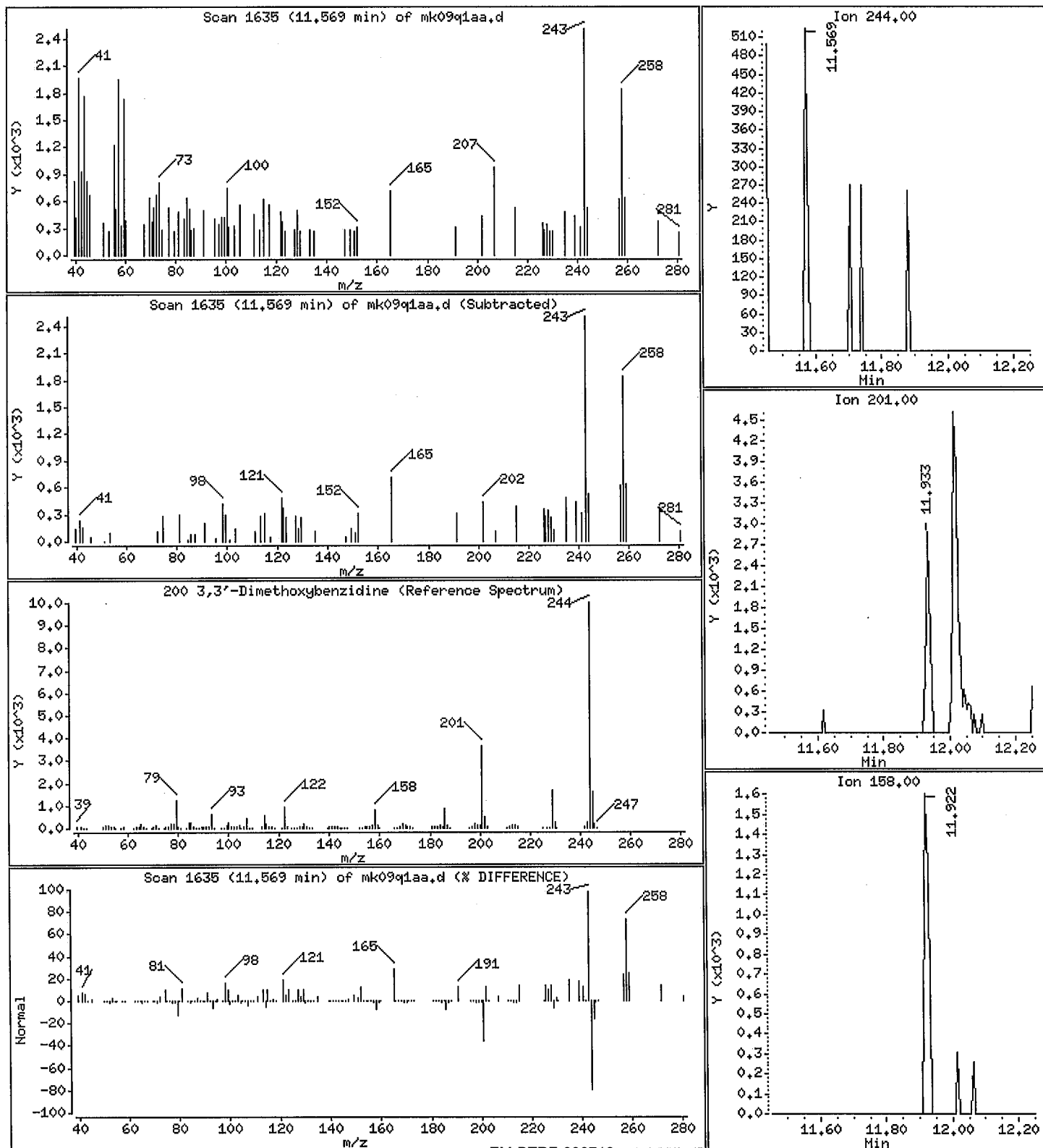
Operator: 60841

Column phase: Rxi-5 Sil MS

Column diameter: 0.25

200 3,3'-Dimethoxybenzidine

Concentration: 24.6 ug



EM-BTRF-000713

Data File: /var/chem/gcms/md,i/D072711,b/mk09q1aa,d

Date : 27-JUL-2011 22:06

Client ID: EXH-SRU-M0010-R2-C0

Instrument: md,i

Sample Info: MK09Q1AA,,0,,

Volume Injected (uL): 1.0

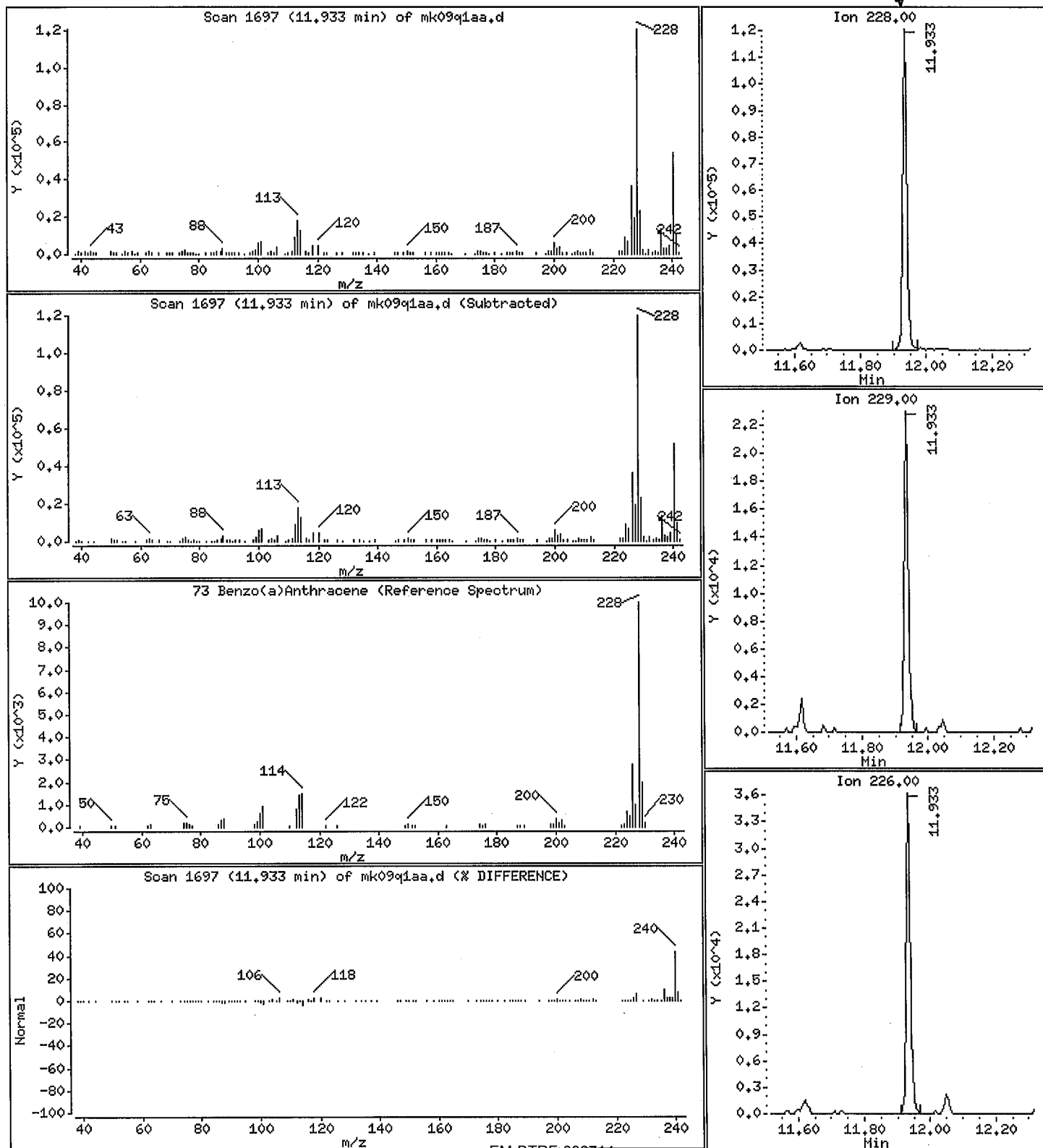
Operator: 60841

Column phase: Rxi-5 Sil MS

Column diameter: 0.25

73 Benzo(a)Anthracene

Concentration: 16.6 ug



EM-BTRF-000714

Data File: /var/chem/gcms/md,i/D072711,b/mk09q1aa,d

Date : 27-JUL-2011 22:06

Client ID: EXH-SRU-M0010-R2-C0

Instrument: md,i

Sample Info: MK09Q1AA,,0,,

Volume Injected (uL): 1.0

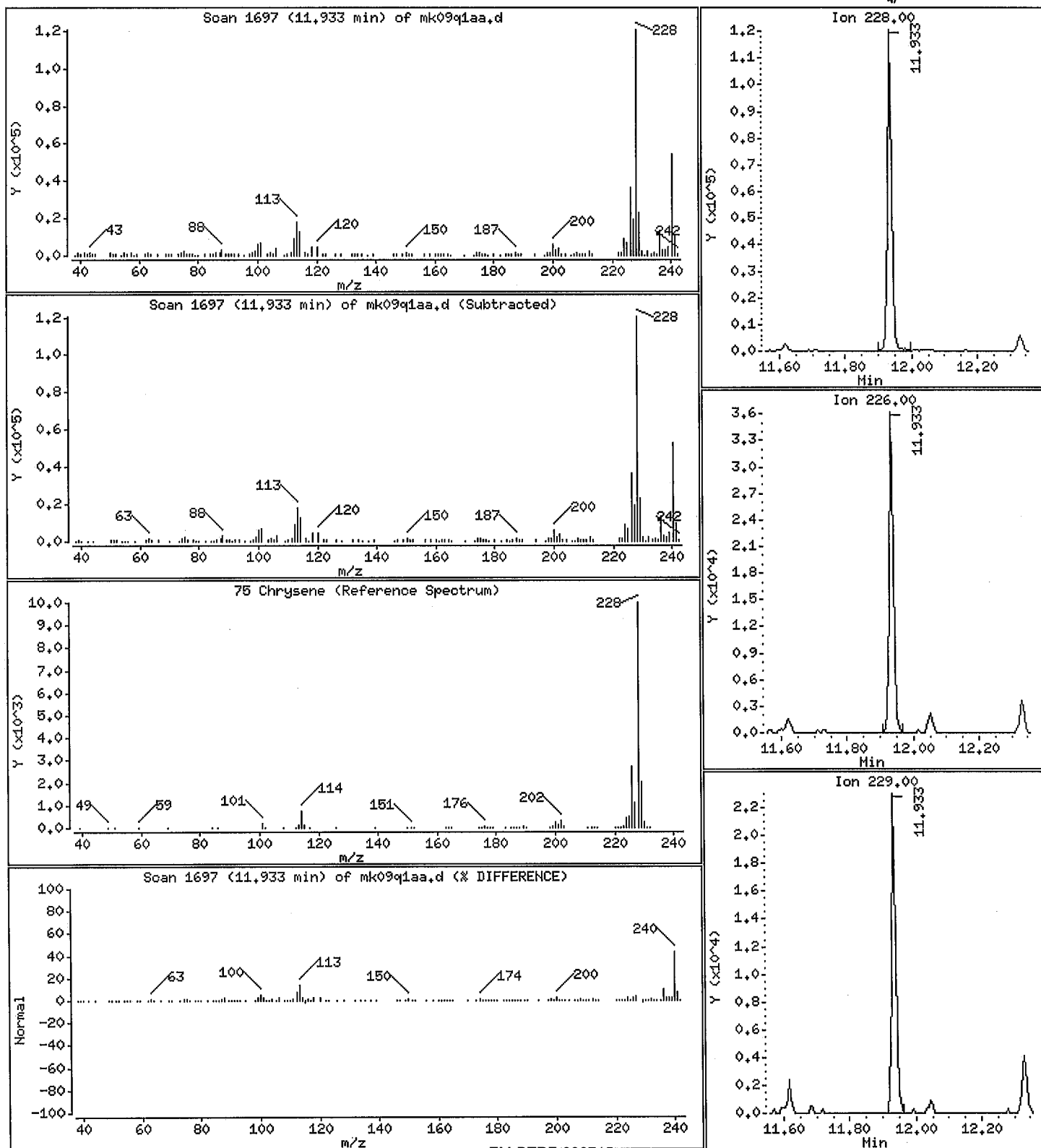
Operator: 60841

Column phase: Rxi-5 Sil MS

Column diameter: 0.25

75 Chrysene

Concentration: 15.7 ug



Data File: /var/chem/gcms/md,i/D072711,b/mk09q1aa,d

Date : 27-JUL-2011 22:06

Client ID: EXH-SRU-M0010-R2-C0

Instrument: md,i

Sample Info: MK09Q1AA,,0,,

Volume Injected (uL): 1.0

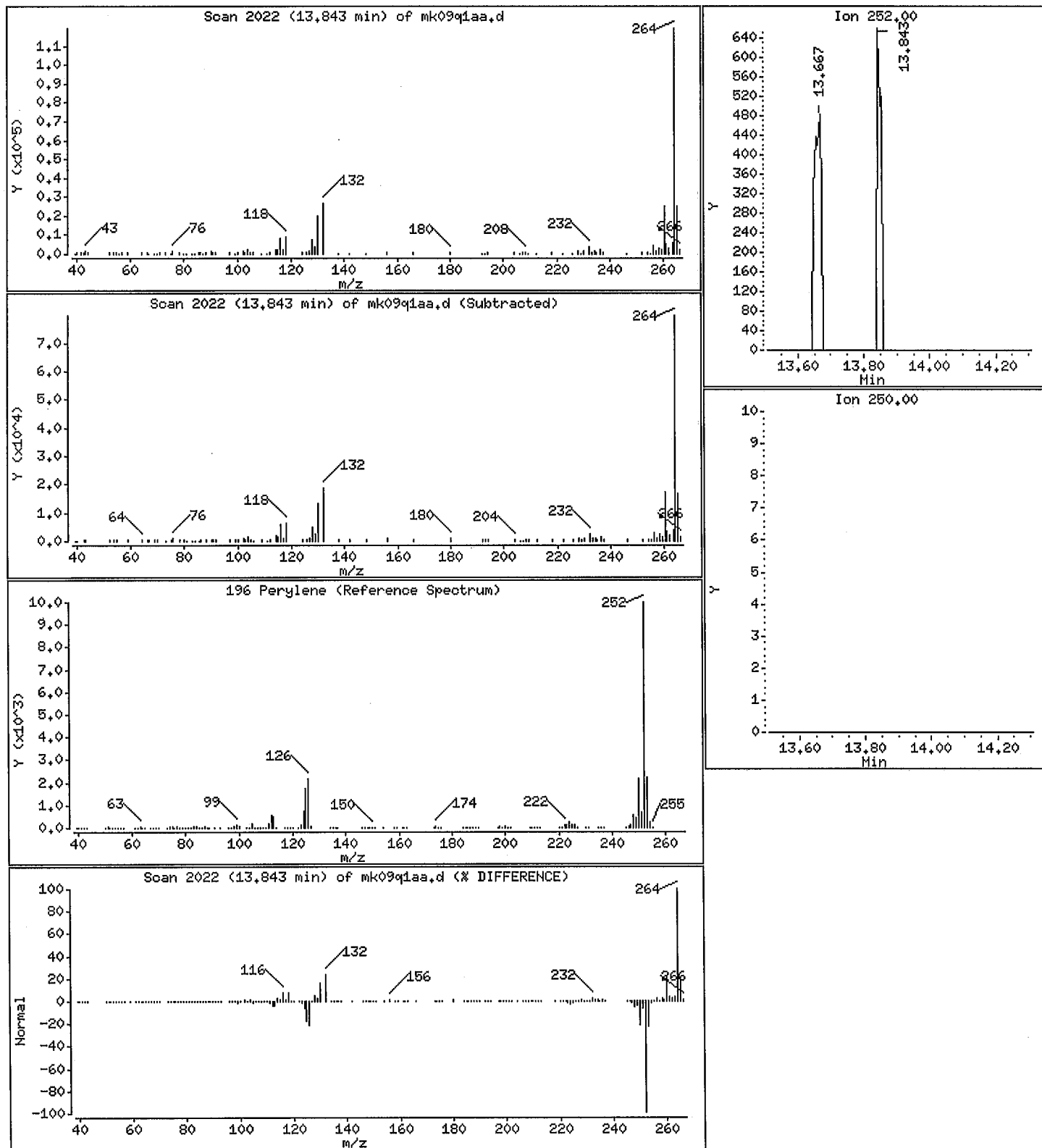
Operator: 60841

Column phase: Rxi-5 Sil MS

Column diameter: 0.25

196 Perylene

Concentration: 0.0931 ug



TRC Environmental Corporation

Client Sample ID: EXM-SRU-M0010-R3-COMBINED

GC/MS Semivolatiles

Lot-Sample #....: H1G190403-003 Work Order #....: MK09R1AA Matrix.....: AIR
 Date Sampled....: 07/08/11 Date Received...: 07/19/11
 Prep Date.....: 07/20/11 Analysis Date...: 07/27/11
 Prep Batch #....: 1201076
 Dilution Factor: 2 Method.....: SW846 8270C

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acenaphthene	ND	20	ug	5.4
Acenaphthylene	ND	20	ug	5.6
Aniline	ND	20	ug	17
Anthracene	ND	20	ug	6.4
Benz (a) anthracene	20 CI	20	ug	6.2
Benzidine	ND	200	ug	120
Benzo(b)fluoranthene	ND	20	ug	8.2
Benzo(k)fluoranthene	ND	20	ug	9.8
Benzo(ghi)perylene	ND	20	ug	6.4
Benzo(a)pyrene	ND	20	ug	7.6
Benzo(e)pyrene	ND	20	ug	1.7
Biphenyl	8.5 J	20	ug	2.0
Chrysene	ND	20	ug	6.2
Cresols (total)	ND	20	ug	16
Dibenz(a,h)anthracene	ND	20	ug	6.0
Dibenzofuran	ND	20	ug	5.6
Dibenzo(a,e)pyrene	ND	20	ug	1.4
3,3'-Dimethoxybenzidine	ND	200	ug	28
p-Dimethylaminoazobenzene	ND	20	ug	4.8
7,12-Dimethylbenz(a)- anthracene	ND	20	ug	7.0
3,3'-Dimethylbenzidine	ND	200	ug	36
alpha,alpha-Dimethylphenethyla mine	ND	50	ug	17
2,4-Dimethylphenol	ND	20	ug	13
Fluoranthene	ND	20	ug	7.2
Fluorene	ND	20	ug	6.0
Indeno(1,2,3-cd)pyrene	ND	20	ug	6.2
Isophorone	ND	20	ug	5.6
3-Methylcholanthrene	ND	20	ug	7.6
2-Methylnaphthalene	ND	20	ug	5.8
Naphthalene	14 J	20	ug	6.2
Nitrobenzene	ND	20	ug	5.8
Perylene	ND	20	ug	1.5
Phenanthrene	8.2 J	20	ug	6.0
Phenol	ND	20	ug	6.2
1,4-Phenylenediamine	ND	200	ug	50
Pyrene	12 J,CI	20	ug	7.0
o-Toluidine	ND	20	ug	5.6

(Continued on next page)

TRC Environmental Corporation

Client Sample ID: EXM-SRU-M0010-R3-COMBINED

GC/MS Semivolatiles

Lot-Sample #....: H1G190403-003 Work Order #....: MK09R1AA Matrix.....: AIR

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	52	(22 - 105)
Phenol-d5	82	(48 - 118)
Nitrobenzene-d5	71	(43 - 110)
2-Fluorobiphenyl	73	(48 - 111)
2,4,6-Tribromophenol	71	(34 - 125)

NOTE(S) :

CI See narrative.

J Estimated result. Result is less than RL.

Data File: /var/chem/gcms/md.i/D072711.b/mk09r1aa.d
Report Date: 28-Jul-2011 11:30

TestAmerica Knoxville

Semivolatile Organic Compounds by GC/MS

Data file : /var/chem/gcms/md.i/D072711.b/mk09r1aa.d
Lab Smp Id: MK09R1AA Client Smp ID: EXM-SRU-M0010-R3-CO
Inj Date : 27-JUL-2011 22:35 /
Operator : 60841 Inst ID: md.i
Smp Info : MK09R1AA,,0,,,
Misc Info : D072711,8270a9,ICR.sub
Comment : Semivolatile Organic Compounds by GC/MS
Method : /chem/gcms/md.i/D072711.b/8270a9.m
Meth Date : 27-Jul-2011 17:16 mcgeek Quant Type: ISTD
Cal Date : 26-JUL-2011 17:42 Cal File: a9dg267.d
Als bottle: 17
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ICR.sub
Target Version: 3.50
Processing Host: qmidhp01

Concentration Formula: Amt * DF * (Vt*Sf)/(Vo*Uf) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	1000.00000	Volume of final extract (uL)
Sf	2.00000	Prep split factor
Vo	1.00000	Volume of sample extracted (1=total samp
Uf	1000.00000	unit correction factor

Cpnd Variable

Local Compound Variable

8/28/11

Compounds	QUANT SIG	MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN (ng/uL)	FINAL (ug)
* 1 1,4-Dichlorobenzene-d4	=====	152	4.301	4.301	(1.000)	51013	20.0000	20.0
* 2 Naphthalene-d8	=====	136	5.887	5.887	(1.000)	203485	20.0000	20.0
* 3 Acenaphthene-d10	=====	164	8.484	8.484	(1.000)	121196	20.0000	20.0
* 4 Phenanthrene-d10	=====	188	9.895	9.895	(1.000)	246139	20.0000	20.0
* 5 Chrysene-d12	=====	240	11.922	11.928	(1.000)	275199	20.0000	20.0
* 6 Perylene-d12	=====	264	13.849	13.855	(1.000)	259849	20.0000	20.0
\$ 7 2-Fluorophenol	=====	112	3.138	3.126	(0.730)	110501	39.2354	78.5
\$ 8 Phenol-d5	=====	99	3.948	3.931	(0.918)	208094	61.6233	123
\$ 9 Nitrobenzene-d5	=====	82	4.924	4.930	(0.836)	115335	35.5686	71.1
\$ 11 2,4,6-Tribromophenol	=====	330	9.307	9.307	(0.941)	52885	53.6681	107
\$ 10 2-Fluorobiphenyl	=====	172	7.585	7.591	(0.894)	275406	36.3260	72.6
\$ 12 Terphenyl-d14	=====	244	11.040	11.046	(0.926)	5516	0.52762	1.06 (R)
\$ 179 13C6-naphthalene	=====	134	5.887	5.917	(1.000)	19575	1.77026	3.34 (R)

WA
NA

Data File: /var/chem/gcms/md.i/D072711.b/mk09r1aa.d

Report Date: 28-Jul-2011 11:30

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ng/uL)	FINAL (ug)
=====	=====	==	=====	=====	=====	=====	=====
15 Phenol (ccc)	94	3.960	3.949	(0.921)	9285	2.67376	5.35
32 2,4-Dimethyphenol	107	5.629	5.447	(0.956)	6717	1.96768	3.94
199 Phentermine	58	5.599	5.658	(0.951)	104096	17.1032	34.2
37 Naphthalene	128	5.917	5.923	(1.005)	68551	7.03048	14.1
202 1,4-Phenylenediamine	108	6.581	6.499	(1.118)	5119	7.31866	14.6
188 1,1'-Biphenyl	154	7.732	7.732	(0.911)	40949	4.26408	8.53
53 Dibenzofuran	168	8.561	8.719	(1.009)	8779	0.92091	1.84
56 Fluorene	166	9.072	9.078	(1.069)	7714	0.97743	1.95
66 Phenanthrene	178	9.912	9.912	(1.002)	54402	4.12573	8.25
67 Anthracene	178	9.912	9.953	(1.002)	54402	4.25248	8.50
70 Fluoranthene (ccc)	202	10.952	10.788	(1.107)	97339	7.16287	14.3
71 Pyrene	202	10.952	10.940	(0.919)	97339	6.24573	12.5
116 p-(dimethylamino)azobenzene	120	10.905	11.146	(1.102)	2230	0.59594	1.19
200 3,3'-Dimethoxybenzidine	244	11.734	11.851	(0.984)	291	12.3192	24.6
73 Benzo(a)Anthracene	228	11.933	11.916	(1.001)	137845	10.1017	20.2
75 Chrysene	228	11.933	11.957	(1.001)	137845	9.46979	18.9
196 Perylene	252	13.849	13.908	(1.000)	292	0.02225	0.0445

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

KEM 7/28/11

Data File: /var/chem/gcms/md.i/D072711.b/mk09r1aa.d

Report Date: 28-Jul-2011 11:30

TestAmerica Knoxville

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: md.i

Lab File ID: mk09r1aa.d

Lab Smp Id: MK09R1AA

Analysis Type: SV

Quant Type: ISTD

Operator: 60841

Method File: /chem/gcms/md.i/D072711.b/8270a9.m

Misc Info: D072711,8270a9,ICR.sub

Calibration Date: 27-JUL-2011

Calibration Time: 16:02

Client Smp ID: EXM-SRU-M0010-R3-CO

Level: LOW

Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
1 1,4-Dichlorobenze	44395	22198	88790	51013	14.91
2 Naphthalene-d8	182374	91187	364748	203485	11.58
3 Acenaphthene-d10	111075	55538	222150	121196	9.11
4 Phenanthrene-d10	217977	108988	435954	246139	12.92
5 Chrysene-d12	247793	123896	495586	275199	11.06
6 Perylene-d12	221015	110508	442030	259849	17.57

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
1 1,4-Dichlorobenze	4.30	3.80	4.80	4.30	0.00
2 Naphthalene-d8	5.89	5.39	6.39	5.89	0.00
3 Acenaphthene-d10	8.48	7.98	8.98	8.48	0.00
4 Phenanthrene-d10	9.89	9.39	10.39	9.89	0.00
5 Chrysene-d12	11.93	11.43	12.43	11.92	-0.05
6 Perylene-d12	13.85	13.35	14.35	13.85	-0.04

AREA UPPER LIMIT = +100% of internal standard area.

AREA LOWER LIMIT = - 50% of internal standard area.

RT UPPER LIMIT = + 0.50 minutes of internal standard RT.

RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /var/chem/gcms/md.i/D072711.b/mk09r1aa.d

Report Date: 28-Jul-2011 11:30

TestAmerica Knoxville

RECOVERY REPORT

Client Name: TRC Environmental Co19-JUL-2011 00:00

Client SDG: H1G190403

Sample Matrix: GAS

Fraction: SV

Lab Smp Id: MK09R1AA

Client Smp ID: EXM-SRU-M0010-R3-CO

Level: LOW

Operator: 60841

Data Type: MS DATA

SampleType: SAMPLE

SpikeList File: allspike.spk

Quant Type: ISTD

Sublist File: ICR.sub

Method File: /chem/gcms/md.i/D072711.b/8270a9.m

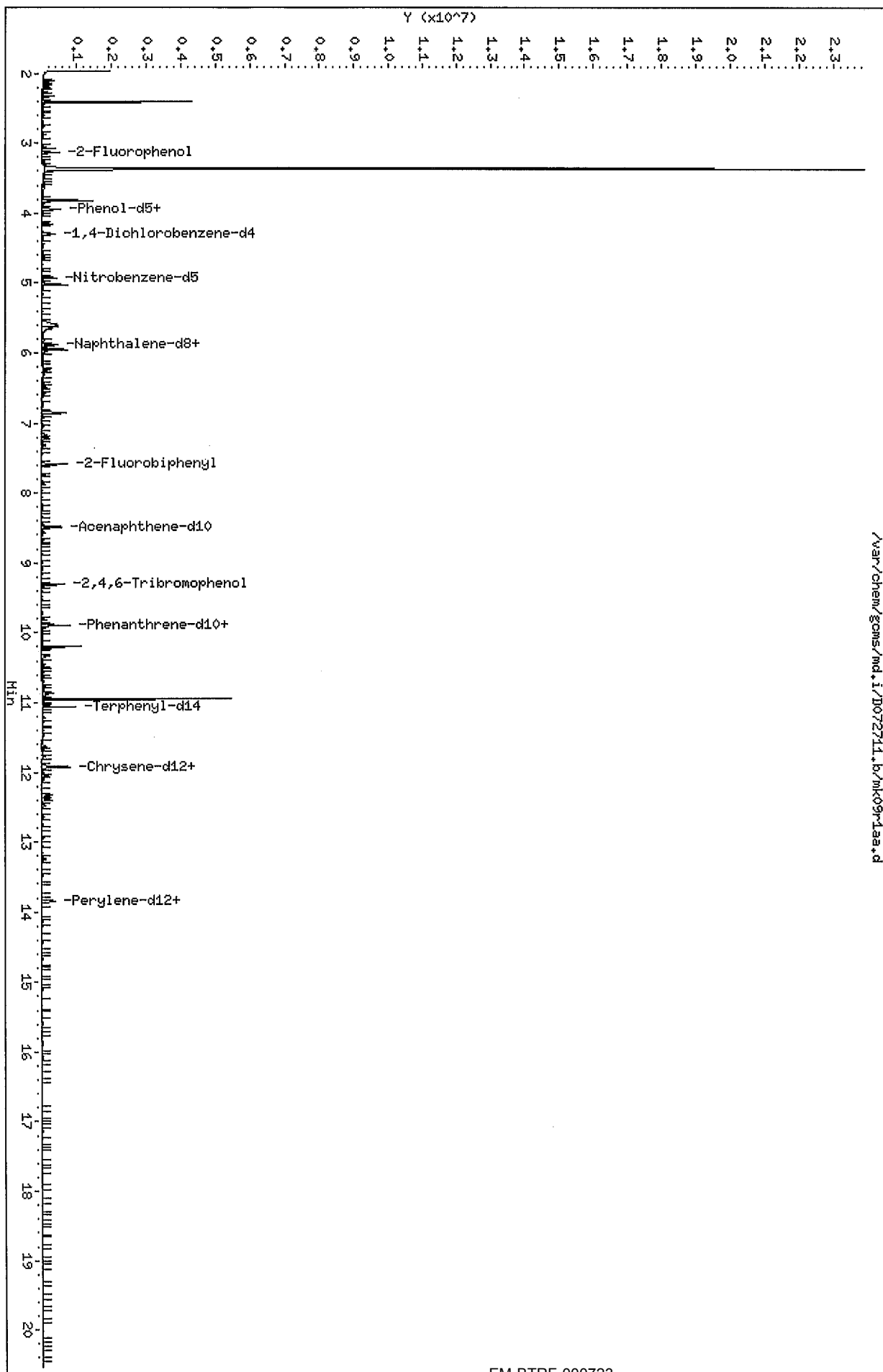
Misc Info: D072711,8270a9,ICR.sub

SURROGATE COMPOUND	CONC ADDED ug	CONC RECOVERED ug	% RECOVERED	LIMITS
\$ 7 2-Fluorophenol	150	78.5	52.31	19-100
\$ 8 Phenol-d5	150	123	82.16	15-124
\$ 9 Nitrobenzene-d5	100	71.1	71.14	42-104
\$ 11 2,4,6-Tribromophen	150	107	71.56	33-130
\$ 10 2-Fluorobiphenyl	100	72.6	72.65	51-103
\$ 12 Terphenyl-d14	100	1.06	1.08*	58-122
\$ 179 13C6-naphthalene	200	3.54	1.77*	50-150

7/28/11

Data File: /var/chem/gcms/md.i/D072711.b/mk09-1aa.d
Date: 27-JUL-2011 22:35
Client ID: EXH-SRU-H0010-R3-C0
Sample Info: MK09R1AA,0,,
Volume Injected (uL): 1.0
Column phase: Rxi-5 Sil MS

Instrument: md.i
Operator: 60841
Column diameter: 0.25



Data File: /var/chem/gcms/md.i/D072711.b/mk09r1aa.d

Date : 27-JUL-2011 22:35

Client ID: EXM-SRU-M0010-R3-C0

Instrument: md.i

Sample Info: MK09R1AA,,0,,

Volume Injected (uL): 1.0

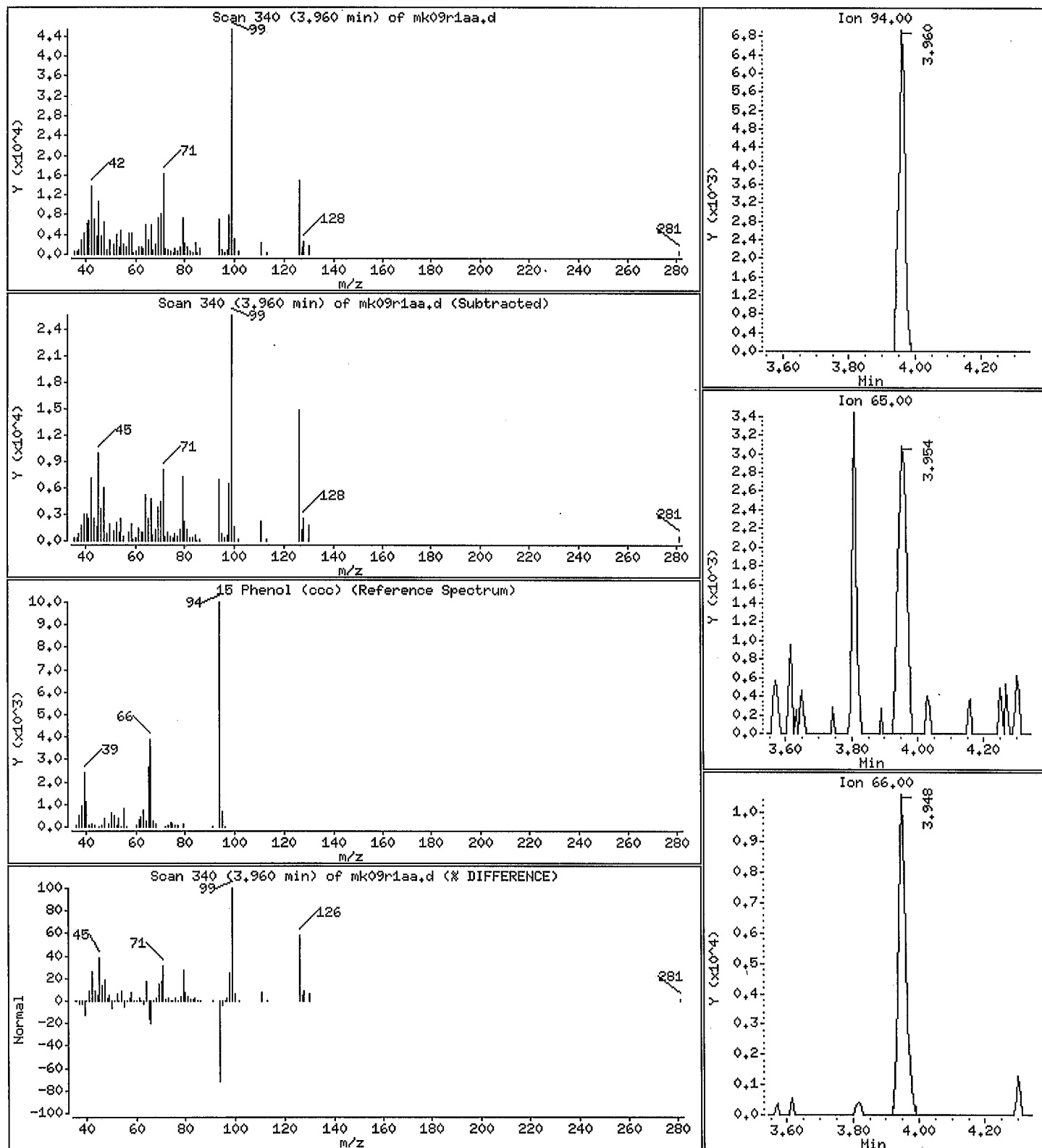
Operator: 60841

Column phase: Rxi-5 Sil MS

Column diameter: 0,25

15 Phenol (ccc)

Concentration: 5,35 ug



EM-BTRF-000724

Data File: /var/chem/gcms/md.i/D072711.b/mk09r1aa.d

Date : 27-JUL-2011 22:35

Client ID: EXM-SRU-M0010-R3-C0

Instrument: md.i

Sample Info: MK09R1AA,,0,,

Volume Injected (uL): 1.0

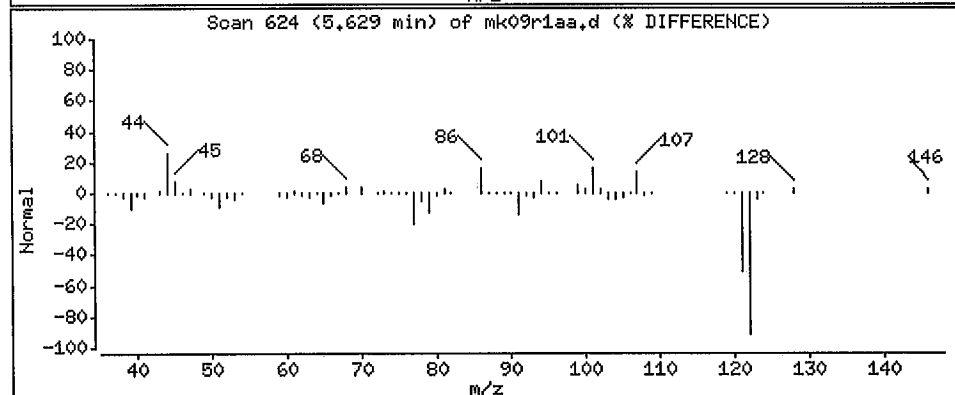
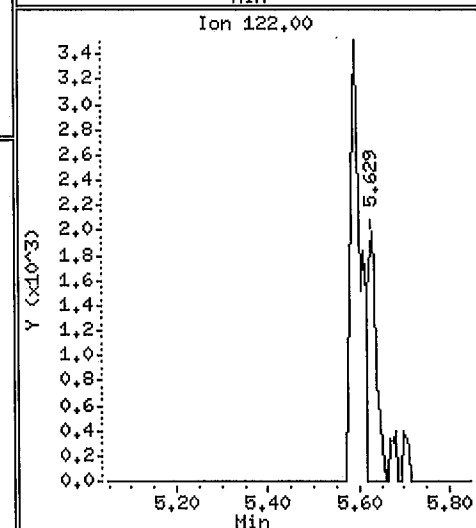
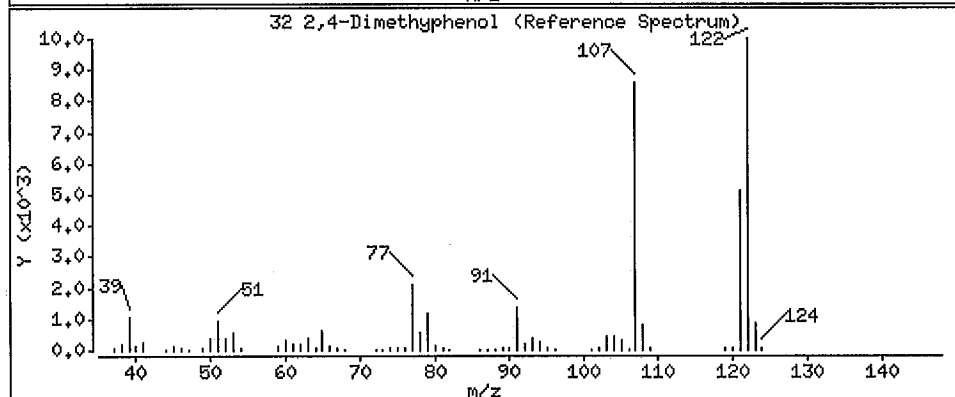
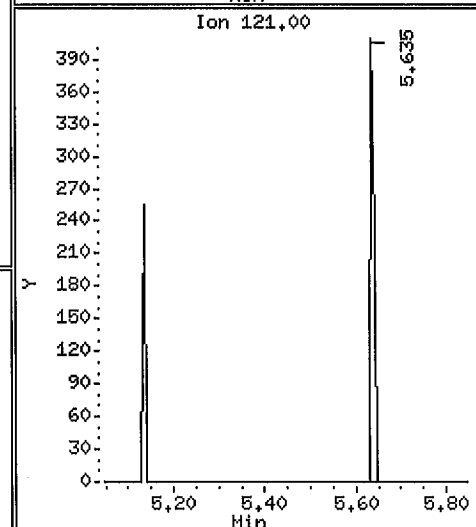
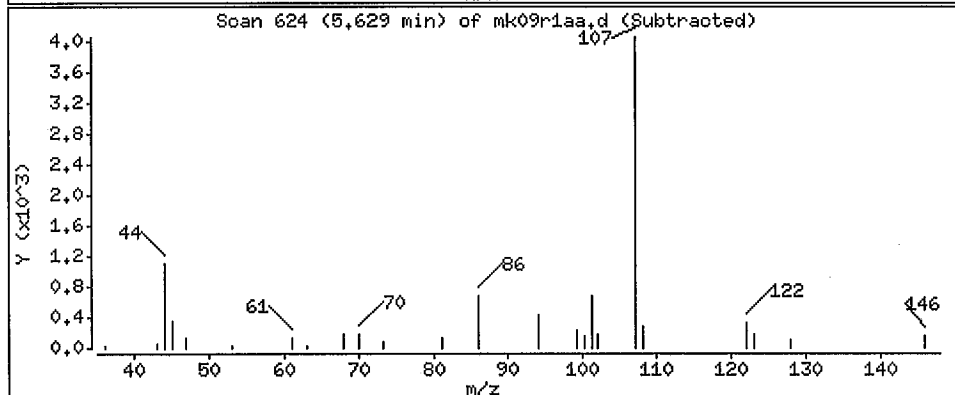
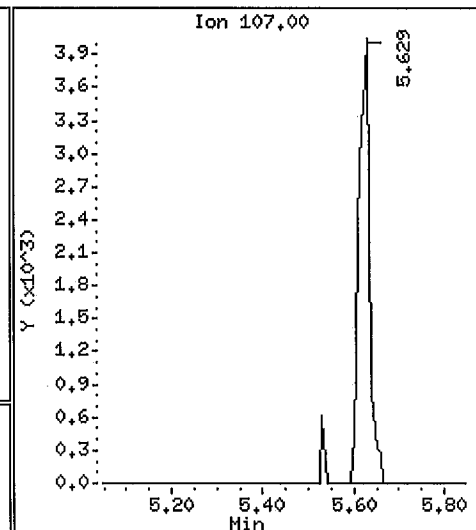
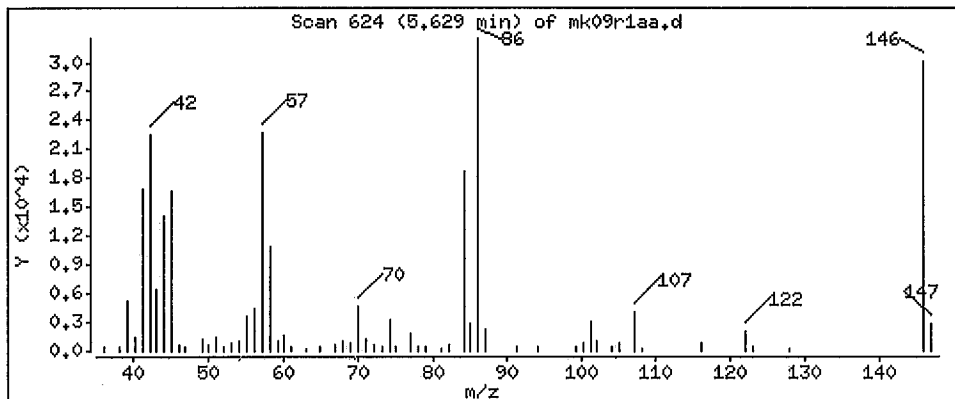
Operator: 60841

Column phase: Rxi-5 Sil MS

Column diameter: 0.25

32 2,4-Dimethyphenol

Concentration: 3.94 ug



EM-BTRF-000725

Data File: /var/chem/gcms/md.i/D072711.b/mk09r1aa.d

Date: 27-JUL-2011 22:35

Client ID: EXM-SRU-M0010-R3-C0

Instrument: md.i

Sample Info: MK09R1AA,,0,,

Volume Injected (uL): 1.0

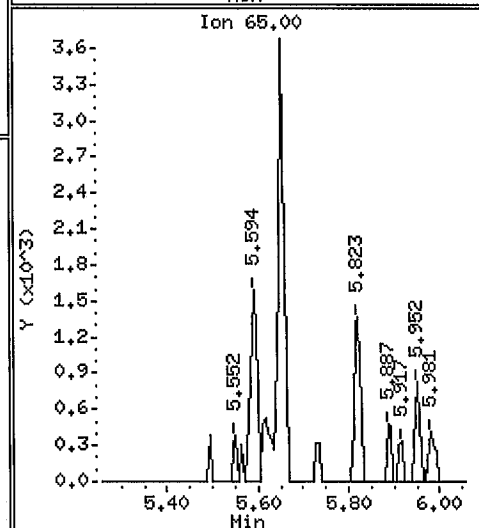
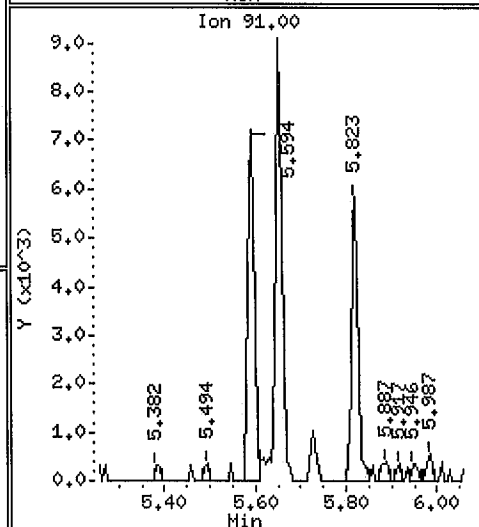
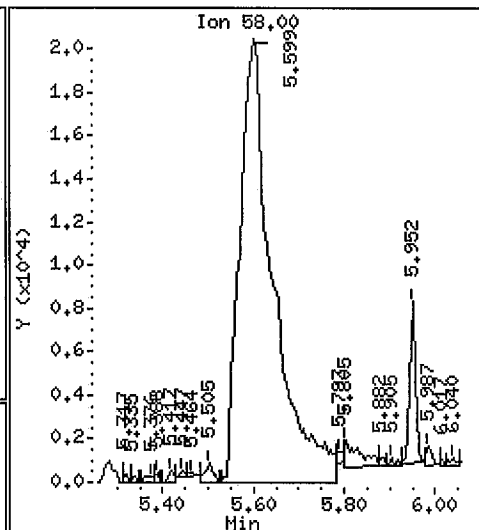
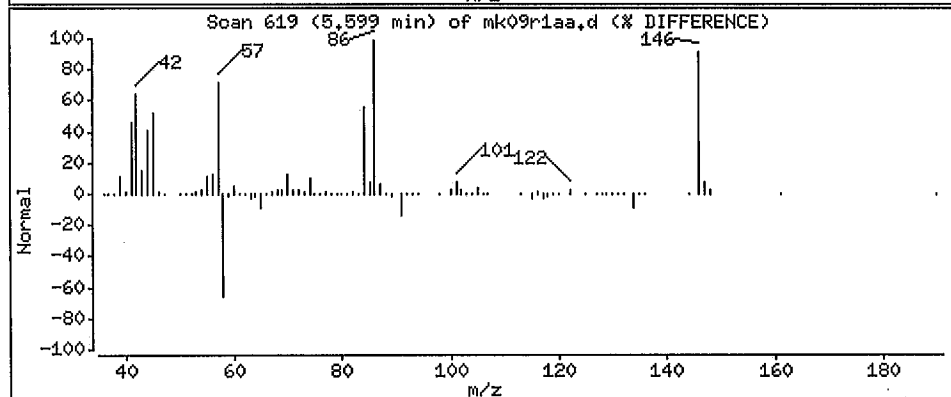
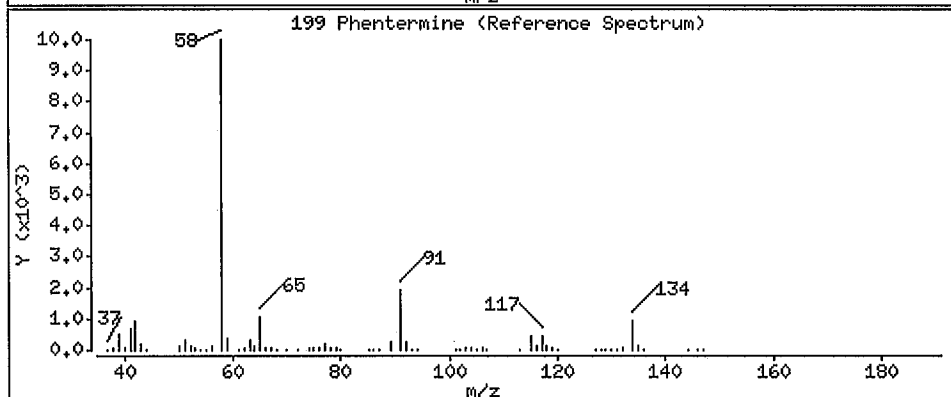
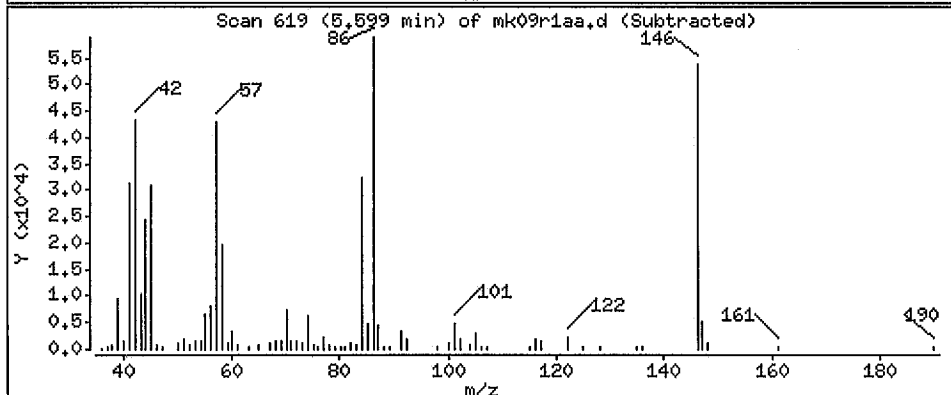
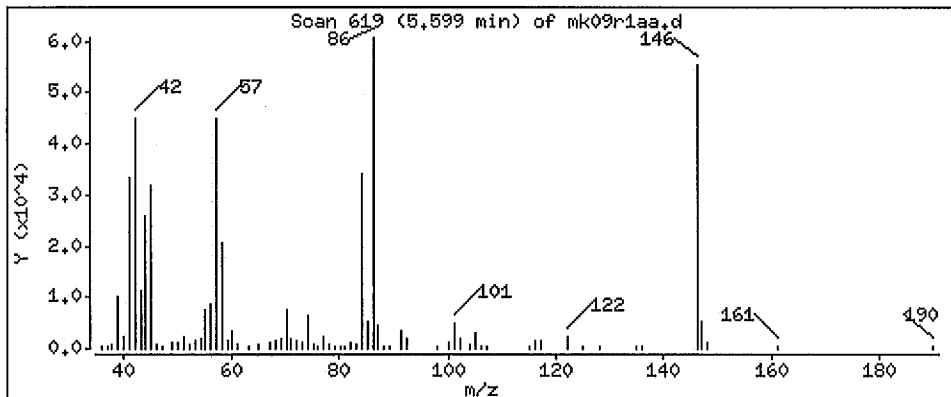
Operator: 60841

Column phase: Rxi-5 Sil MS

Column diameter: 0.25

199 Phentermine

Concentration: 34.2 ug



EM-BTRF-000726

Data File: /var/chem/gcms/md.i/D072711.b/mk09r1aa.d

Date: 27-JUL-2011 22:35

Client ID: EXM-SRU-M0010-R3-C0

Instrument: md.i

Sample Info: MK09R1AA,,0,,

Volume Injected (uL): 1.0

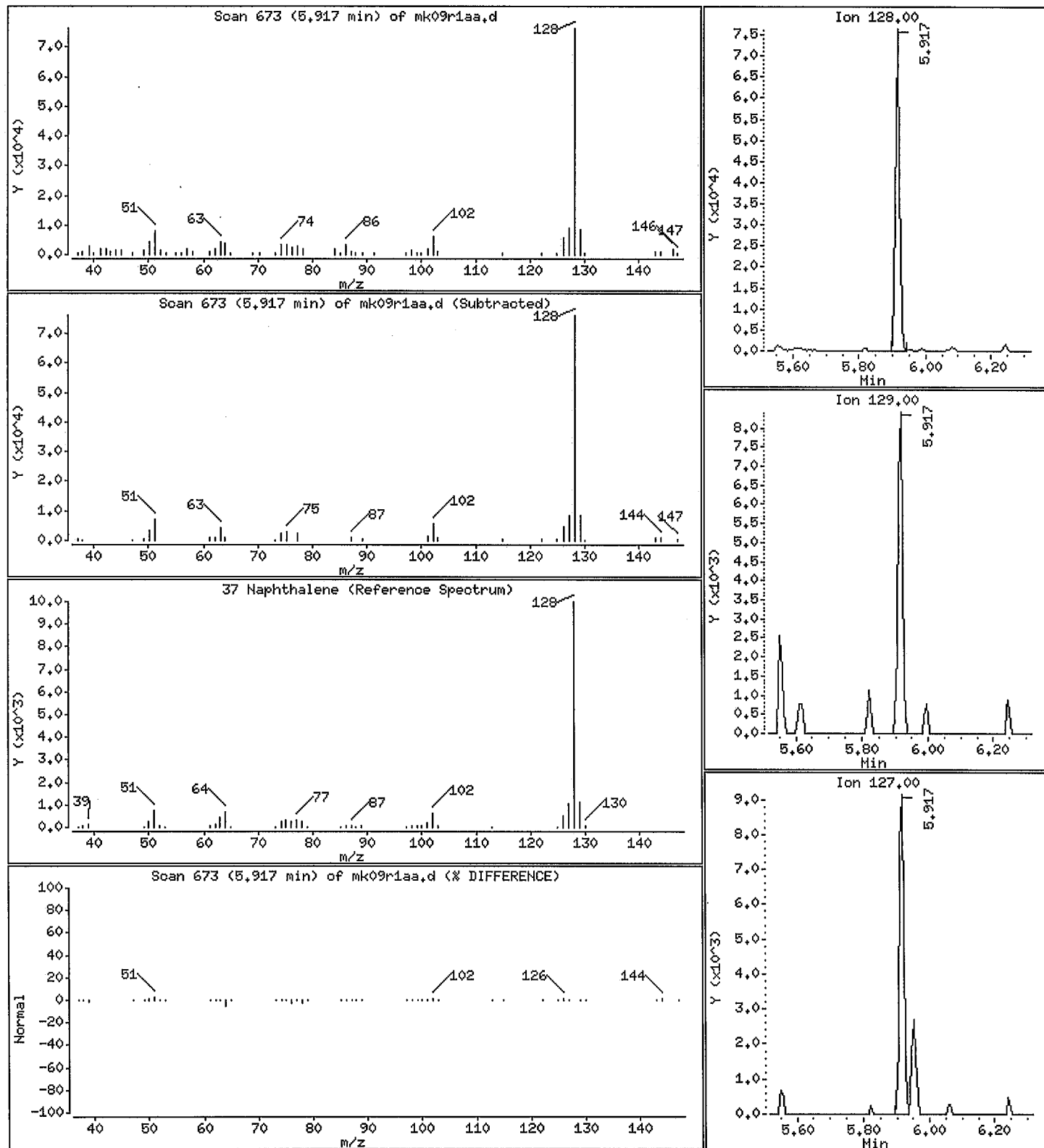
Operator: 60841

Column phase: Rxi-5 Sil MS

Column diameter: 0.25

37 Naphthalene

Concentration: 14.1 ug



Data File: /var/chem/gcms/md,i/D072711,b/mk09r1aa,d

Date : 27-JUL-2011 22:35

Client ID: EXM-SRU-M0010-R3-C0

Instrument: md,i

Sample Info: MK09R1AA,,0,,,

Volume Injected (uL): 1.0

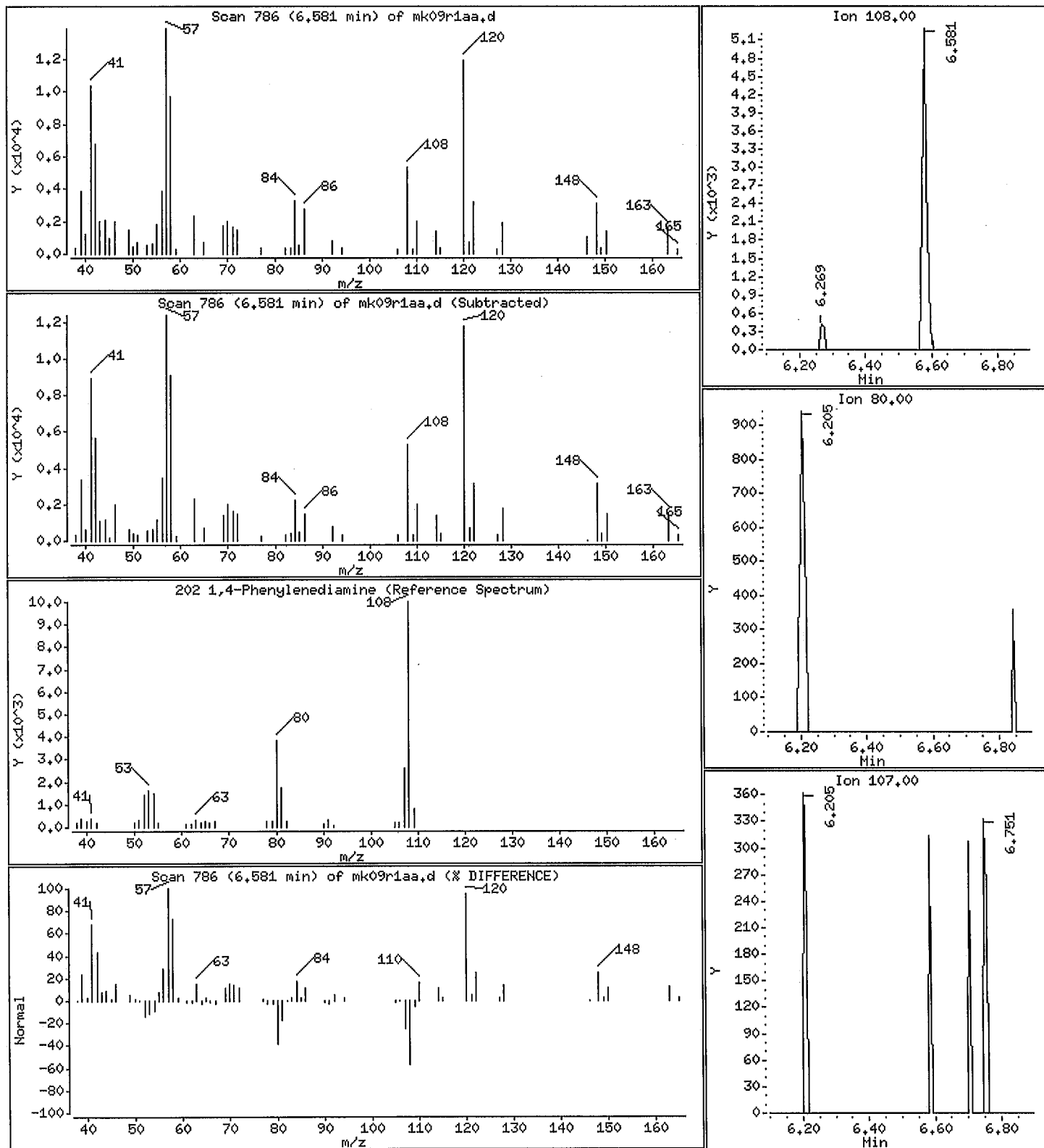
Operator: 60841

Column phase: Rxi-5 Sil MS

Column diameter: 0,25

202 1,4-Phenylenediamine

Concentration: 14,6 ug



Data File: /var/chem/gcms/md.i/D072711.b/mk09r1aa.d

Date : 27-JUL-2011 22:35

Client ID: EXM-SRU-H0010-R3-C0

Instrument: md.i

Sample Info: MK09R1AA,,0,,,

Volume Injected (uL): 1.0

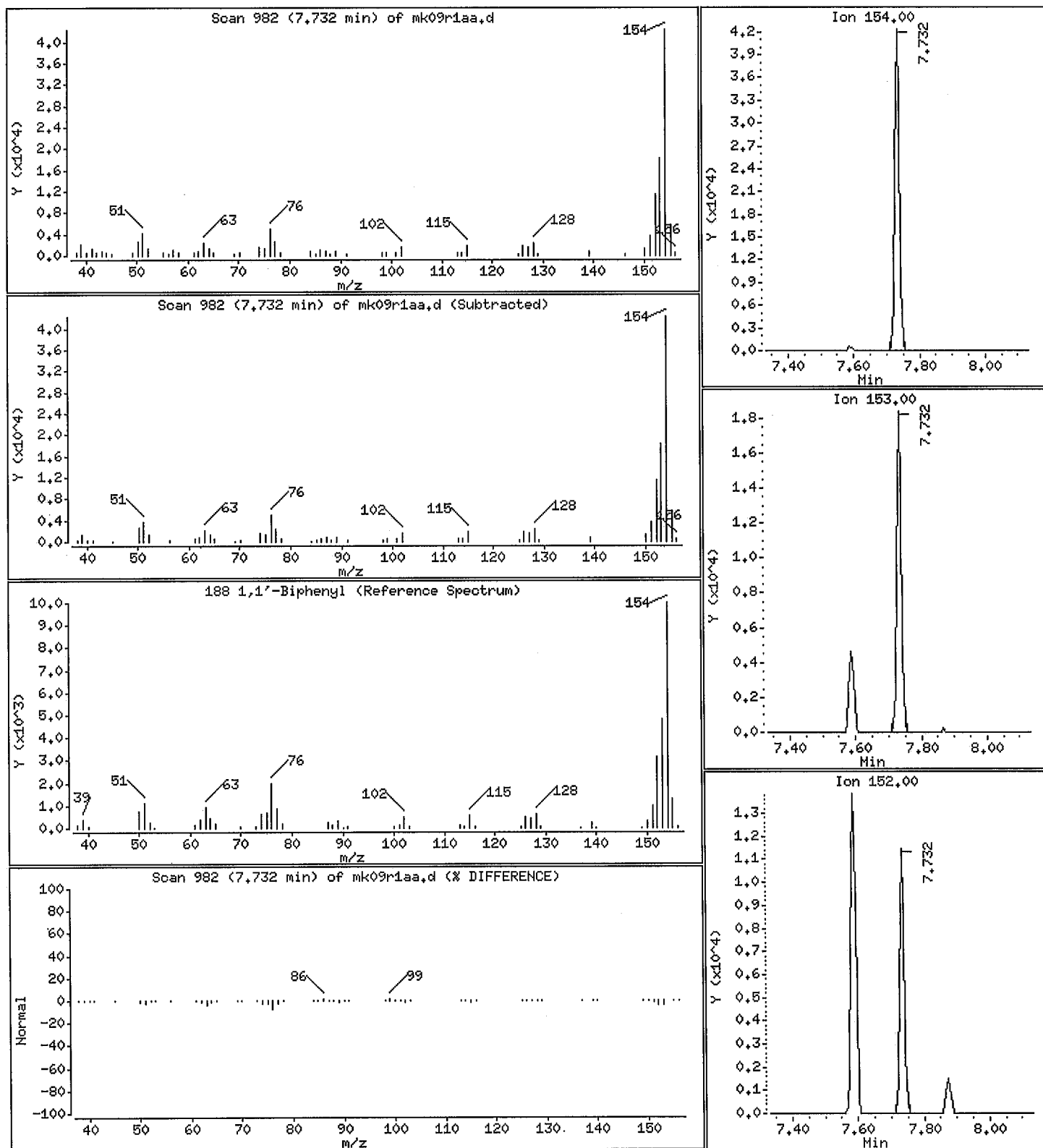
Operator: 60841

Column phase: Rxi-5 Sil MS

Column diameter: 0.25

188 1,1'-Biphenyl

Concentration: 8.53 ug



Data File: /var/chem/gcms/md,i/D072711,b/mk09r1aa,d

Date : 27-JUL-2011 22:35

Client ID: EXH-SRU-M0010-R3-C0

Instrument: md,i

Sample Info: MK09R1AA,,0,,,

Volume Injected (uL): 1.0

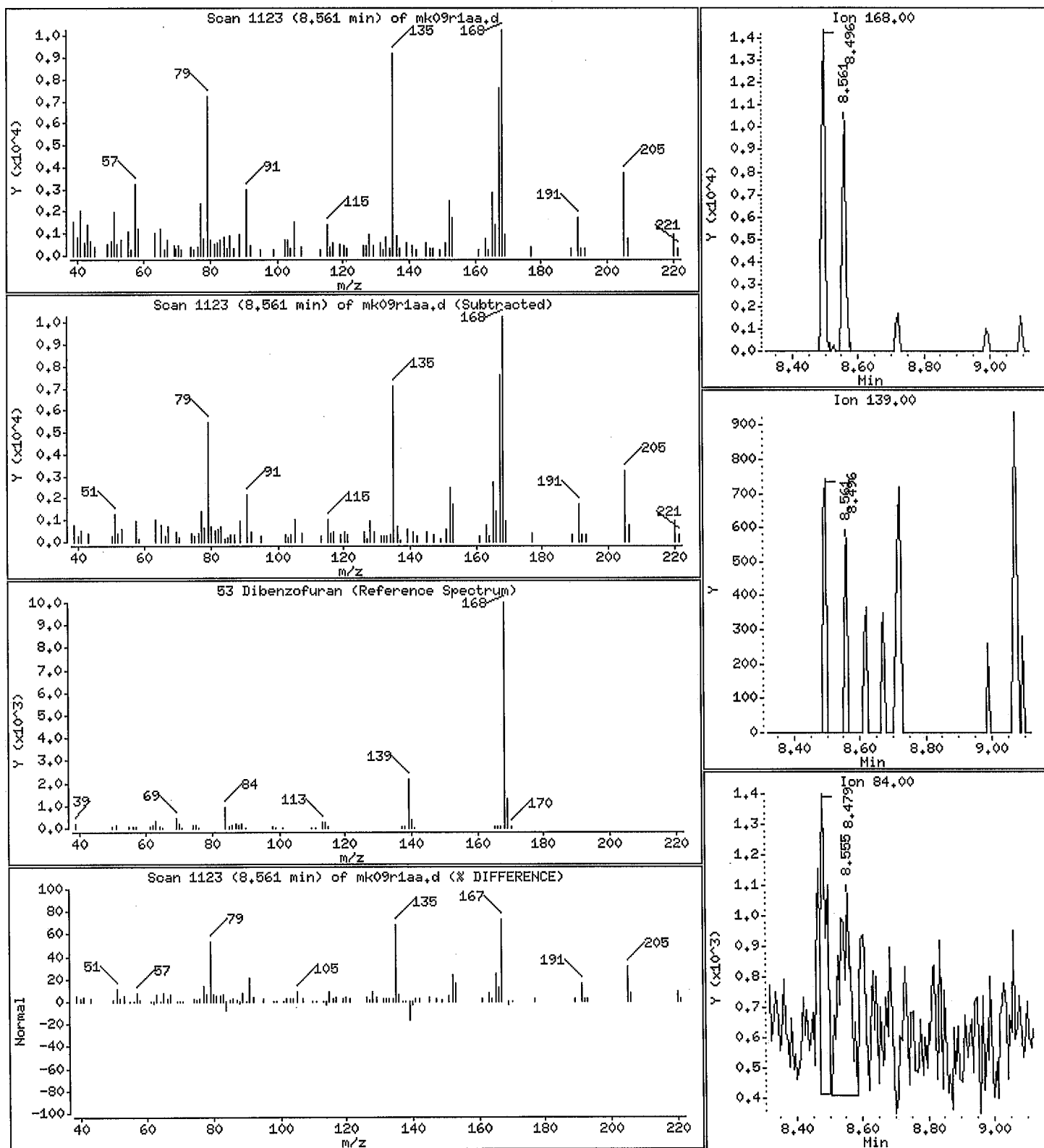
Operator: 60841

Column phase: Rxi-5 Sil MS

Column diameter: 0,25

53 Dibenzofuran

Concentration: 1,84 ug



Data File: /var/chem/gcms/md.i/D072711.b/mk09r1aa.d

Date : 27-JUL-2011 22:35

Client ID: EXM-SRU-M0010-R3-C0

Instrument: md.i

Sample Info: MK09R1AA,,0,,

Volume Injected (uL): 1.0

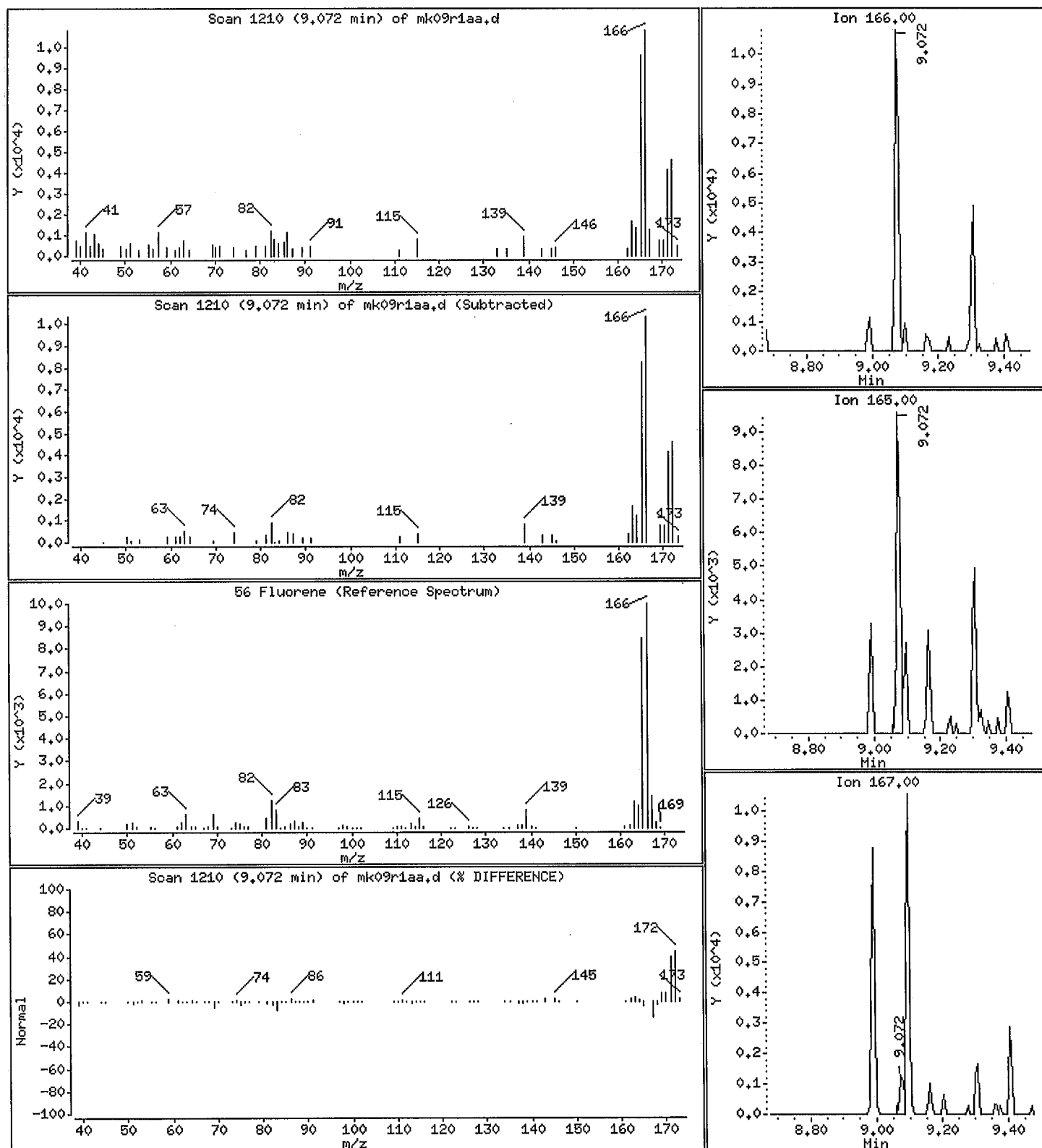
Operator: 60841

Column phase: Rxi-5 Sil MS

Column diameter: 0.25

56 Fluorene

Concentration: 1.95 ug



EM-BTRF-000731

Data File: /var/chem/gcms/md.i/D072711.b/mk09r1aa.d

Date: 27-JUL-2011 22:35

Client ID: EXM-SRU-M0010-R3-C0

Instrument: md.i

Sample Info: MK09R1AA,,0,,

Volume Injected (uL): 1.0

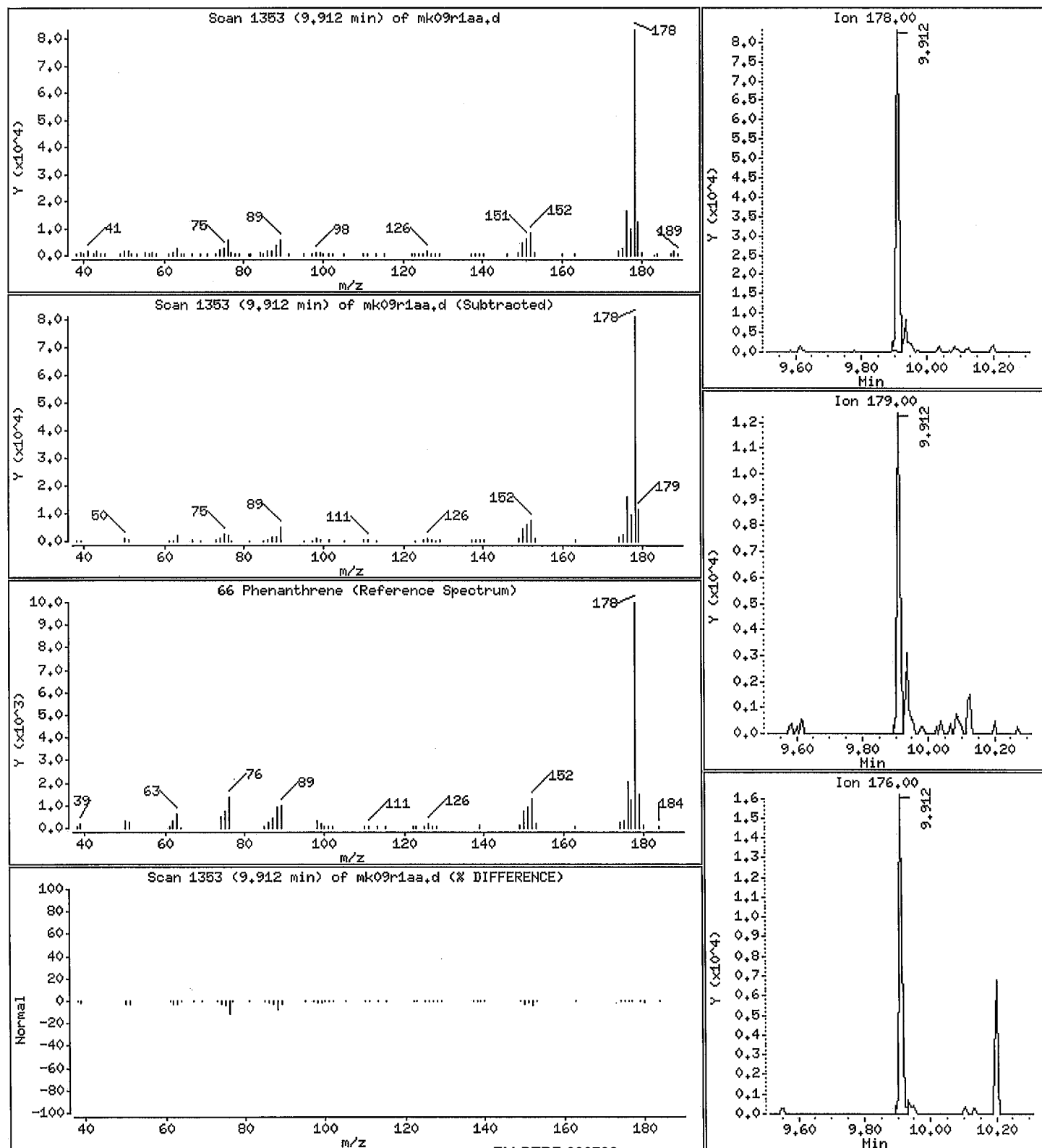
Operator: 60841

Column phase: Rxi-5 Sil MS

Column diameter: 0.25

66 Phenanthrene

Concentration: 8.25 ug



EM-BTRF-000732

Data File: /var/chem/gcms/md.i/D072711.b/mk09r1aa.d

Date : 27-JUL-2011 22:35

Client ID: EXH-SRU-M0010-R3-C0

Instrument: md.i

Sample Info: MK09R1AA,,0,,

Volume Injected (uL): 1.0

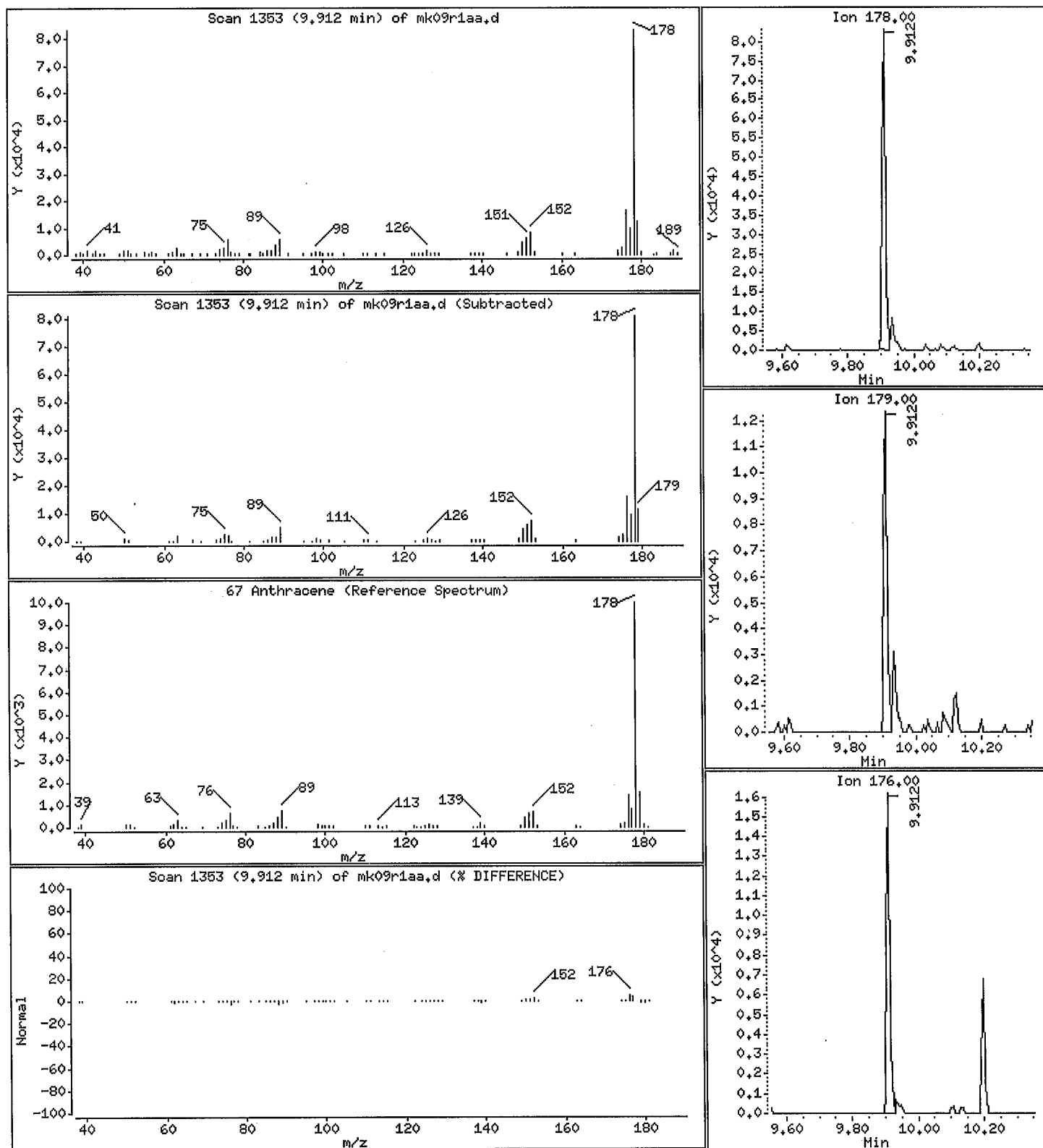
Operator: 60841

Column phase: Rxi-5 Sil MS

Column diameter: 0,25

67 Anthracene

Concentration: 8,50 ug



Data File: /var/chem/gcms/md,i/D072711.b/mk09r1aa.d

Date : 27-JUL-2011 22:35

Client ID: EXM-SRU-H0010-R3-C0

Instrument: md,i

Sample Info: MK09R1AA,,0,,

Volume Injected (uL): 1.0

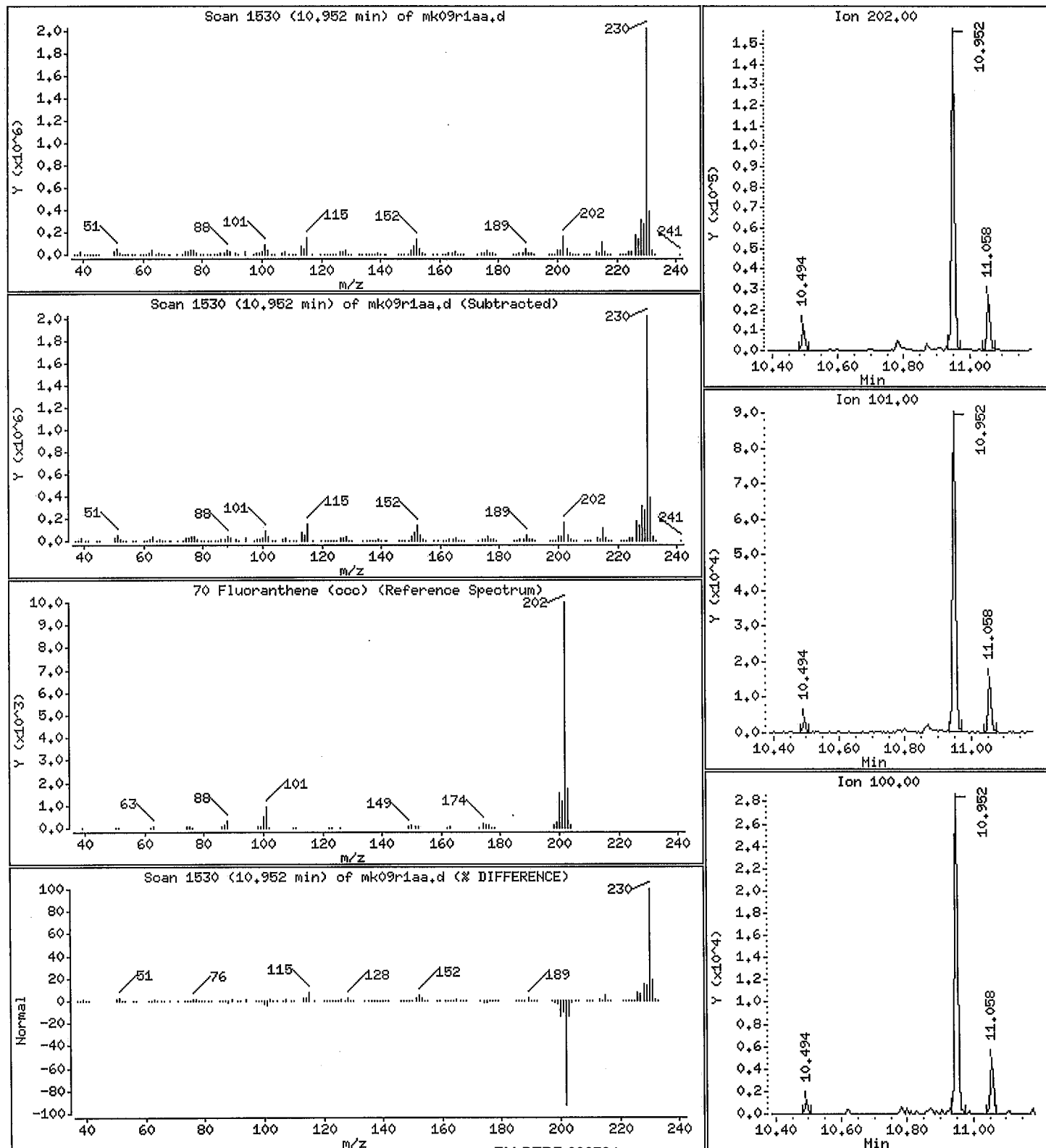
Operator: 60841

Column phase: Rxi-5 Sil MS

Column diameter: 0.25

70 Fluoranthene (ooo)

Concentration: 14.3 ug



EM-BTRF-000734

Data File: /var/chem/gcms/md,i/D072711,b/mk09r1aa,d

Date : 27-JUL-2011 22:35

Client ID: EXM-SRU-M0010-R3-C0

Instrument: md,i

Sample Info: MK09R1AA,,0,,,

Volume Injected (uL): 1.0

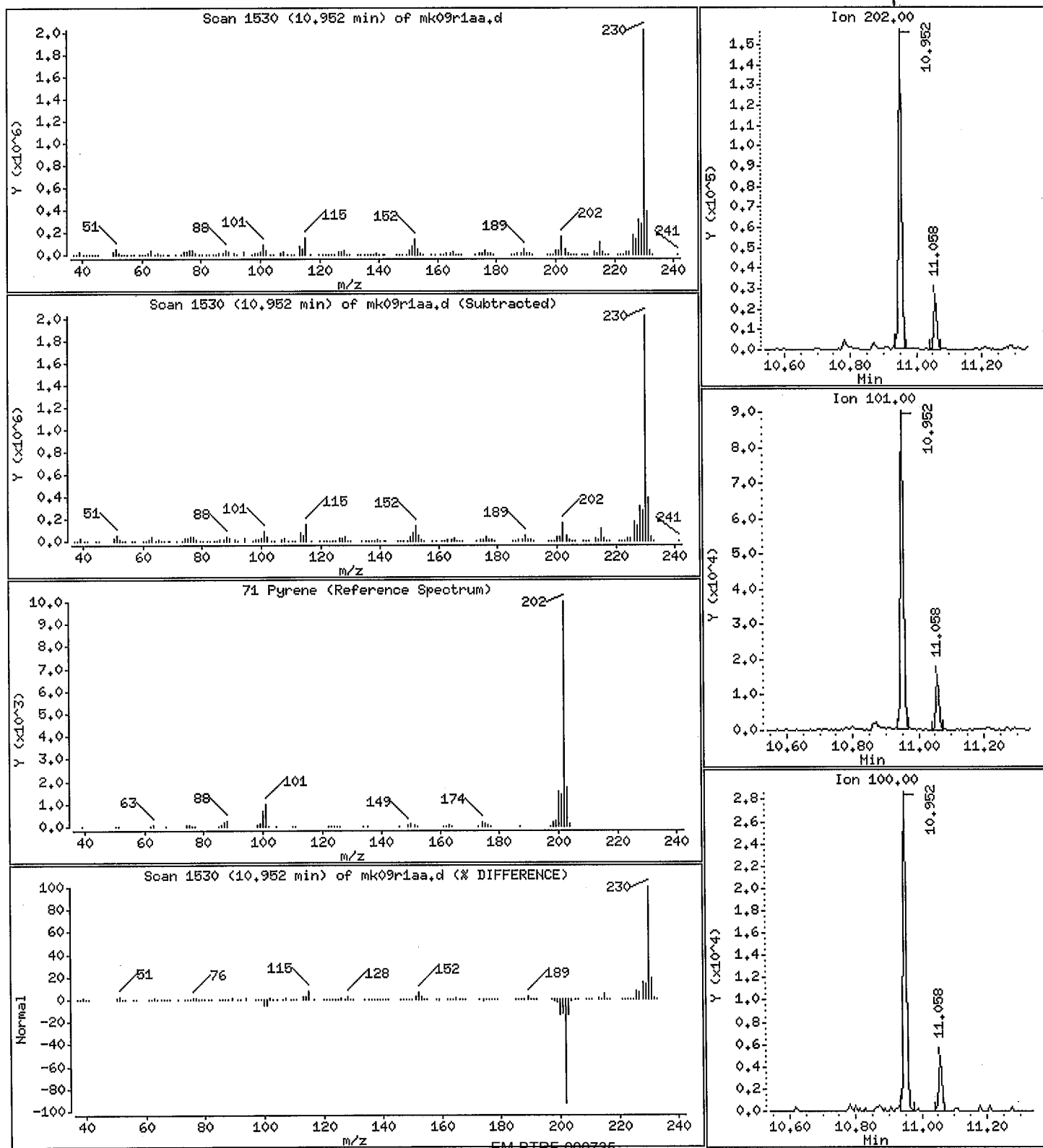
Operator: 60841

Column phase: Rxi-5 Sil MS

Column diameter: 0,25

71 Pyrene

Concentration: 12,5 ug



Data File: /var/chem/gcms/md,i/D072711.b/mk09r1aa.d

Date : 27-JUL-2011 22:35

Client ID: EXM-SRU-H0010-R3-C0

Instrument: md,i

Sample Info: MK09R1AA,,0,,

Volume Injected (uL): 1.0

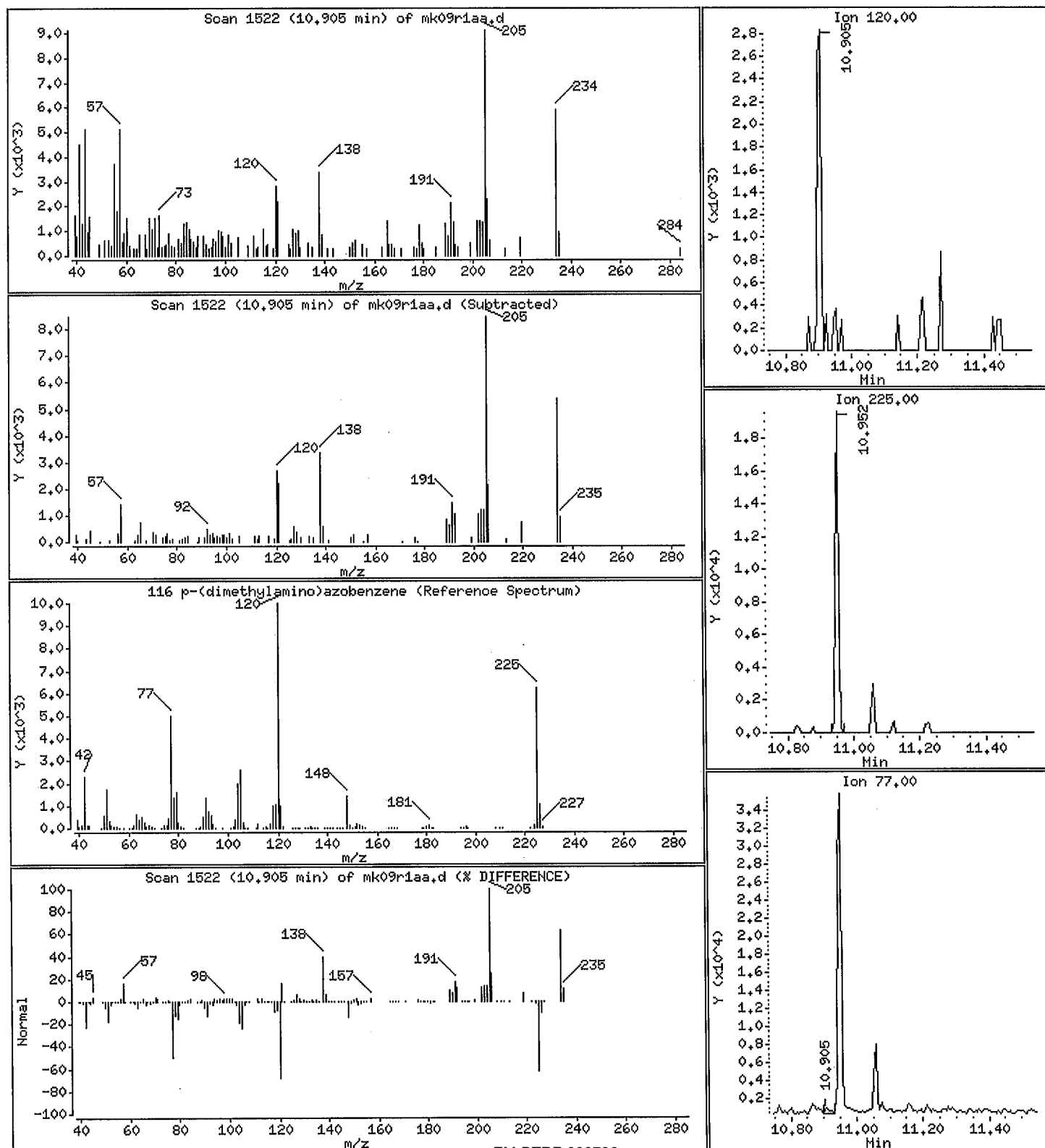
Operator: 60841

Column phase: Rxi-5 Sil MS

Column diameter: 0.25

116 p-(dimethylamino)azobenzene

Concentration: 1.19 ug



EM-BTRF-000736

Data File: /var/chem/gcms/md.i/D072711.b/mk09r1aa.d

Date : 27-JUL-2011 22:35

Client ID: EXM-SRU-M0010-R3-C0

Instrument: md.i

Sample Info: MK09R1AA,,0,,

Volume Injected (uL): 1.0

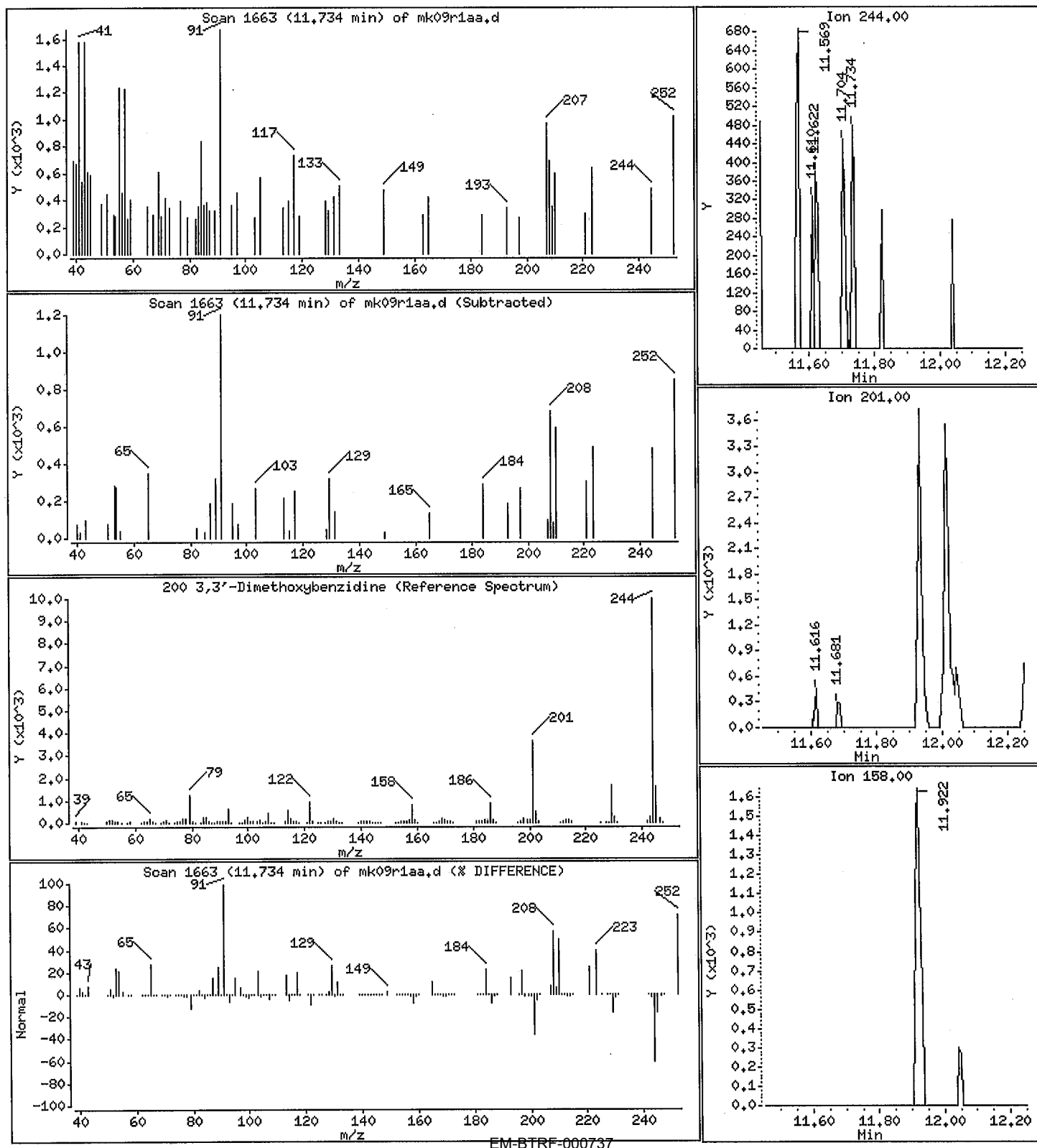
Operator: 60841

Column phase: Rxi-5 Sil MS

Column diameter: 0.25

200 3,3'-Dimethoxybenzidine

Concentration: 24.6 ug



Data File: /var/chem/gcms/md,i/D072711.b/mk09r1aa.d

Date : 27-JUL-2011 22:35

Client ID: EXH-SRU-H0010-R3-C0

Instrument: md,i

Sample Info: MK09R1AA,,0,,,

Volume Injected (uL): 1.0

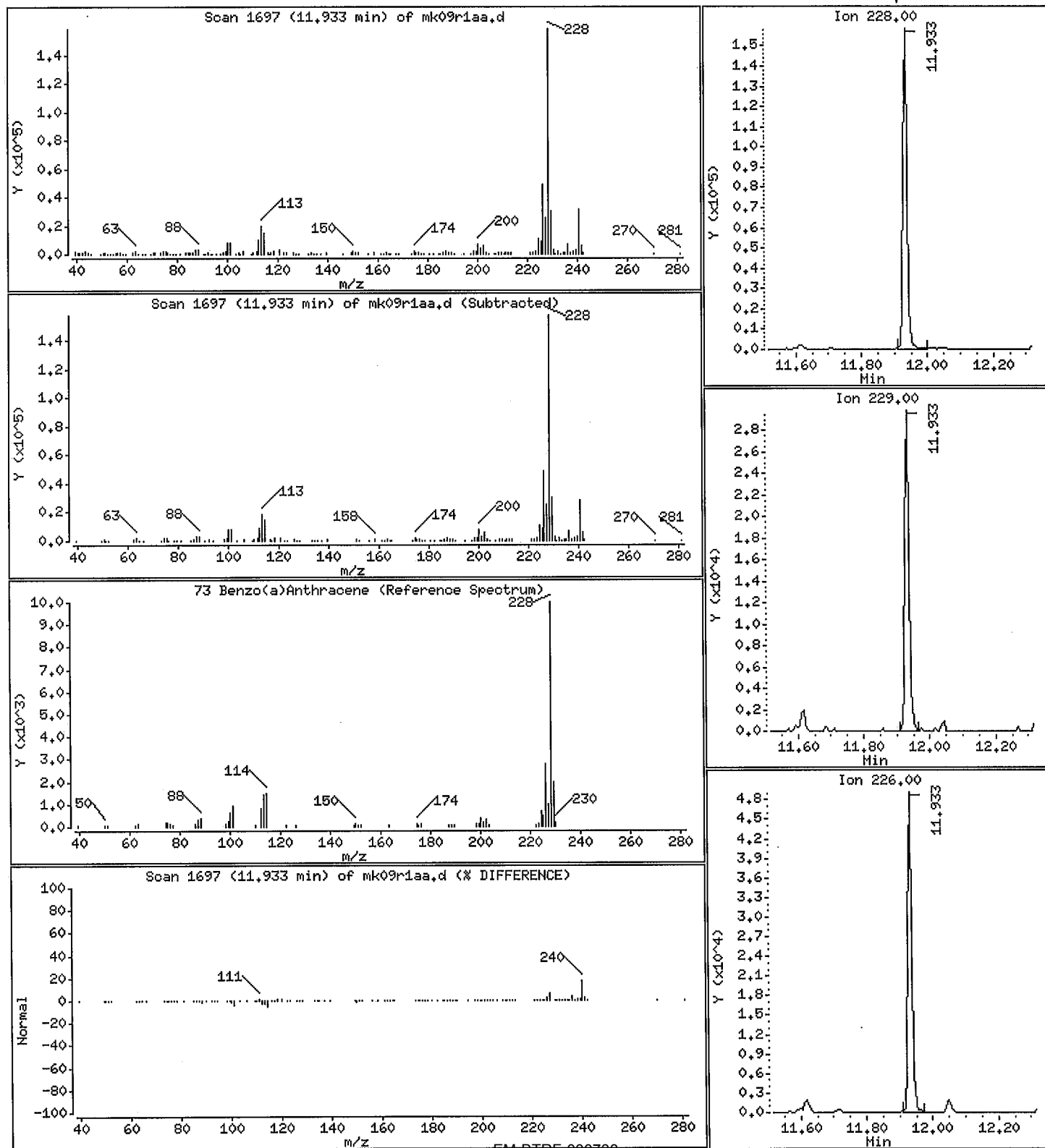
Operator: 60841

Column phase: Rxi-5 Sil MS

Column diameter: 0,25

73 Benzo(a)Anthracene

Concentration: 20.2 ug



Data File: /var/chem/gcms/md,i/D072711,b/mk09r1aa,d

Date : 27-JUL-2011 22:35

Client ID: EXM-SRU-M0010-R3-C0

Instrument: md,i

Sample Info: MK09R1AA,,0,,,

Volume Injected (uL): 1.0

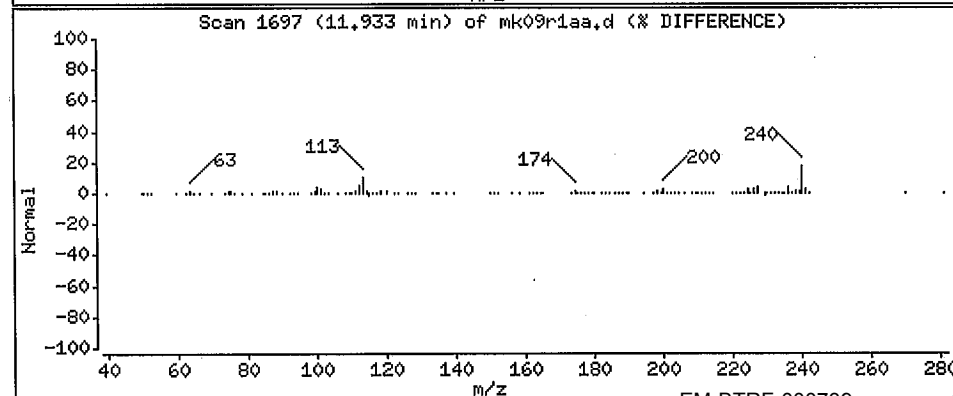
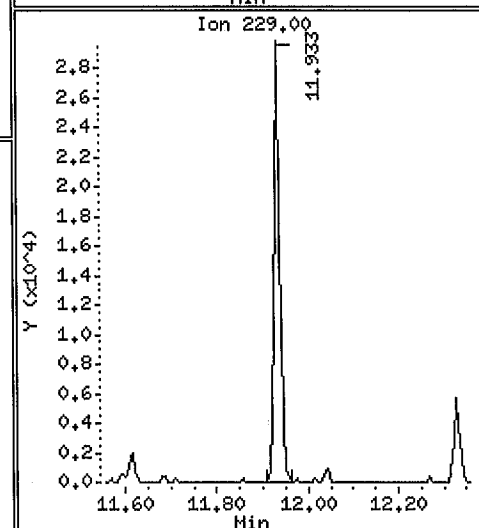
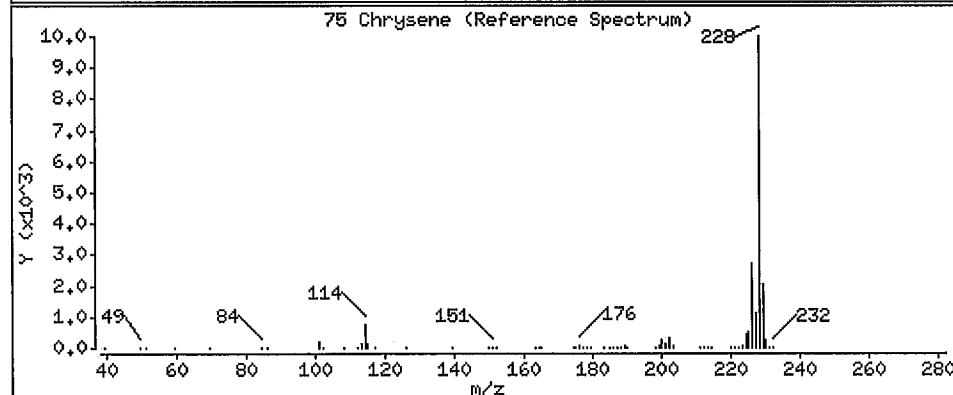
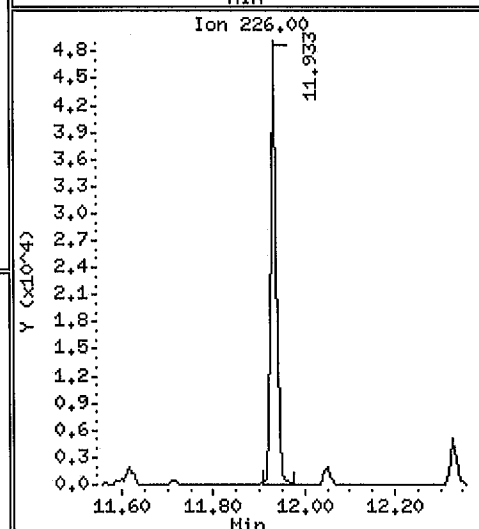
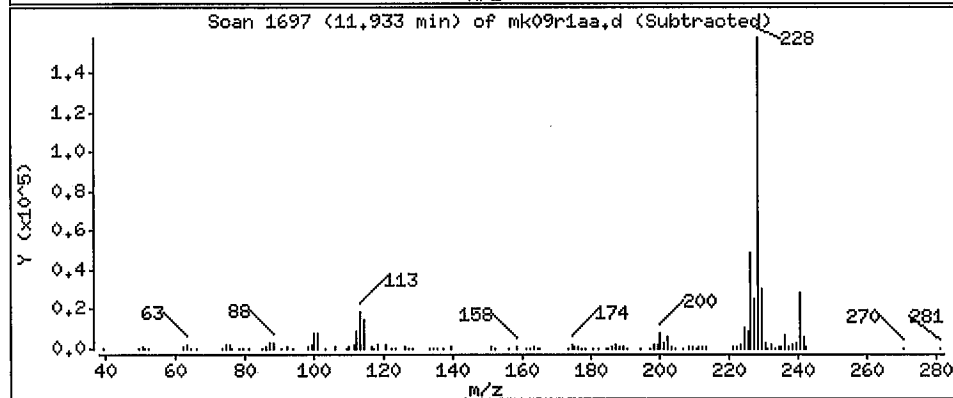
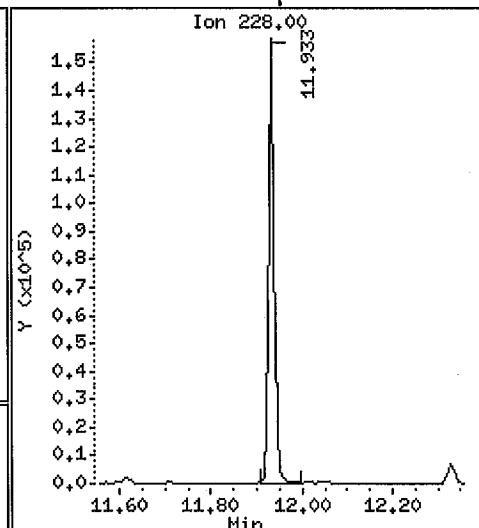
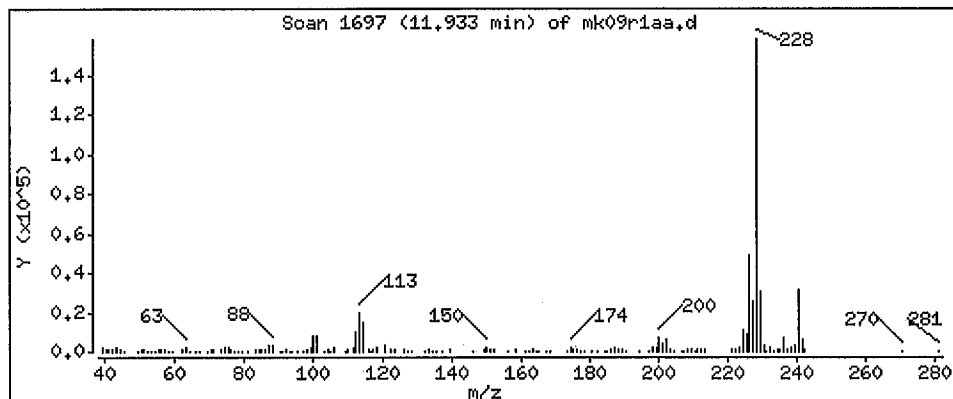
Operator: 60841

Column phase: Rxi-5 Sil MS

Column diameter: 0.25

75 Chrysene

Concentration: 18.9 ug



EM-BTRF-000739

Data File: /var/chem/gcms/md,i/D072711,b/mk09r1aa,d

Date : 27-JUL-2011 22:35

Client ID: EXM-SRU-M0010-R3-C0

Instrument: md,i

Sample Info: MK09R1AA,,0,,,

Volume Injected (uL): 1.0

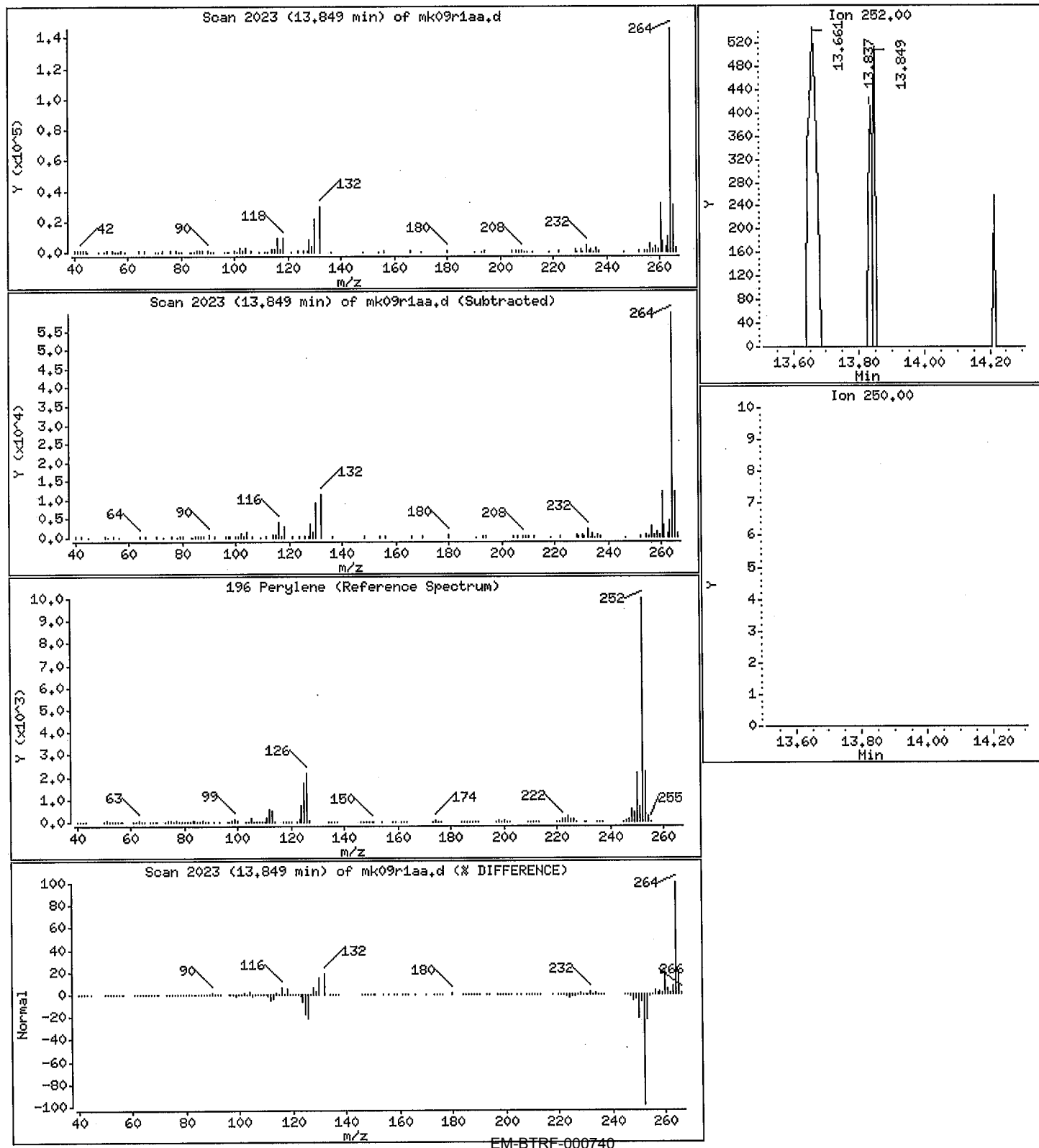
Operator: 60841

Column phase: Rxi-5 Sil MS

Column diameter: 0.25

196 Perylene

Concentration: 0.0445 ug



TRC Environmental Corporation

Client Sample ID: EXM-SRU-M0010-RGTBLK-COMBINED

GC/MS Semivolatiles

Lot-Sample #....: H1G190403-004 Work Order #....: MK09T1AA Matrix.....: AIR
 Date Sampled....: 07/08/11 Date Received...: 07/19/11
 Prep Date.....: 07/20/11 Analysis Date...: 07/27/11
 Prep Batch #....: 1201076
 Dilution Factor: 2 Method.....: SW846 8270C

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acenaphthene	ND	20	ug	5.4
Acenaphthylene	ND	20	ug	5.6
Aniline	ND	20	ug	17
Anthracene	ND	20	ug	6.4
Benz (a) anthracene	ND	20	ug	6.2
Benztidine	ND	200	ug	120
Benzo (b) fluoranthene	ND	20	ug	8.2
Benzo (k) fluoranthene	ND	20	ug	9.8
Benzo (ghi) perylene	ND	20	ug	6.4
Benzo (a) pyrene	ND	20	ug	7.6
Benzo (e) pyrene	ND	20	ug	1.7
Biphenyl	ND	20	ug	2.0
Chrysene	ND	20	ug	6.2
Cresols (total)	ND	20	ug	16
Dibenz (a,h) anthracene	ND	20	ug	6.0
Dibenzofuran	ND	20	ug	5.6
Dibenzo (a,e) pyrene	ND	20	ug	1.4
3,3'-Dimethoxybenztidine	ND	200	ug	28
p-Dimethylaminoazobenzene	ND	20	ug	4.8
7,12-Dimethylbenz (a) - anthracene	ND	20	ug	7.0
3,3'-Dimethylbenztidine	ND	200	ug	36
alpha, alpha-Dimethylphenethyla mine	ND	50	ug	17
2,4-Dimethylphenol	ND	20	ug	13
Fluoranthene	ND	20	ug	7.2
Fluorene	ND	20	ug	6.0
Indeno (1,2,3-cd) pyrene	ND	20	ug	6.2
Isophorone	ND	20	ug	5.6
3-Methylcholanthrene	ND	20	ug	7.6
2-Methylnaphthalene	ND	20	ug	5.8
Naphthalene	ND	20	ug	6.2
Nitrobenzene	ND	20	ug	5.8
Perylene	ND	20	ug	1.5
Phenanthrene	ND	20	ug	6.0
Phenol	ND	20	ug	6.2
1,4-Phenylenediamine	ND	200	ug	50
Pyrene	ND	20	ug	7.0
o-Toluidine	ND	20	ug	5.6

(Continued on next page)

TRC Environmental Corporation

Client Sample ID: EXM-SRU-M0010-RGTBLK-COMBINED

GC/MS Semivolatiles

Lot-Sample #...: H1G190403-004 Work Order #...: MK09T1AA Matrix.....: AIR

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
2-Fluorophenol	58	(22 - 105)
Phenol-d5	79	(48 - 118)
Nitrobenzene-d5	73	(43 - 110)
2-Fluorobiphenyl	76	(48 - 111)
2,4,6-Tribromophenol	75	(34 - 125)

Data File: /var/chem/gcms/md.i/D072711.b/mk09t1aa.d
Report Date: 28-Jul-2011 11:31

TestAmerica Knoxville

Semivolatile Organic Compounds by GC/MS

Data file : /var/chem/gcms/md.i/D072711.b/mk09t1aa.d
Lab Smp Id: MK09T1AA Client Smp ID: EXM-SRU-M0010-RGTBL
Inj Date : 27-JUL-2011 23:04 /
Operator : 60841 Inst ID: md.i
Smp Info : MK09T1AA,,0,,,
Misc Info : D072711,8270a9,ICR.sub
Comment : Semivolatile Organic Compounds by GC/MS
Method : /chem/gcms/md.i/D072711.b/8270a9.m
Meth Date : 27-Jul-2011 17:16 mcgeek Quant Type: ISTD
Cal Date : 26-JUL-2011 17:42 Cal File: a9dg267.d
Als bottle: 18
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ICR.sub
Target Version: 3.50
Processing Host: qmidhp01

Concentration Formula: Amt * DF * (Vt*Sf)/(Vo*Uf) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	1000.00000	Volume of final extract (uL)
Sf	2.00000	Prep split factor
Vo	1.00000	Volume of sample extracted (1=total samp
Uf	1000.00000	unit correction factor

Cpnd Variable

Local Compound Variable

Compounds	QUANT SIG	MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN (ng/uL)	FINAL (ug)
* 1 1,4-Dichlorobenzene-d4		152	4.301	4.301	(1.000)	51566	20.0000	20.0
* 2 Naphthalene-d8		136	5.887	5.887	(1.000)	203509	20.0000	20.0
* 3 Acenaphthene-d10		164	8.479	8.484	(1.000)	123135	20.0000	20.0
* 4 Phenanthrene-d10		188	9.895	9.895	(1.000)	247631	20.0000	20.0
* 5 Chrysene-d12		240	11.922	11.928	(1.000)	267958	20.0000	20.0
* 6 Perylene-d12		264	13.843	13.855	(1.000)	241578	20.0000	20.0
\$ 7 2-Fluorophenol		112	3.132	3.126	(0.728)	124031	43.5674	87.1
\$ 8 Phenol-d5		99	3.931	3.931	(0.914)	201756	59.1058	118
\$ 9 Nitrobenzene-d5		82	4.924	4.930	(0.836)	119087	36.7214	73.4
\$ 11 2,4,6-Tribromophenol		330	9.307	9.307	(0.941)	55492	55.9741	112
\$ 10 2-Fluorobiphenyl		172	7.585	7.591	(0.895)	292261	37.9419	75.9
\$ 179 13C6-naphthalene		134	5.887	5.917	(1.000)	19302	1.74537	3.49(R) NA
15 Phenol (ccc)		94	3.949	3.949	(0.918)	2006	0.57147	1.14

Data File: /var/chem/gcms/md.i/D072711.b/mk09t1aa.d

Report Date: 28-Jul-2011 11:31

Compounds	QUANT SIG						CONCENTRATIONS	
	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ng/uL)	FINAL (ug)	
=====	=====	==	=====	=====	=====	=====	=====	
199 Phentermine	58	5.664	5.658	(0.962)	89	5.90698	11.8	
196 Perylene	252	13.843	13.908	(1.000)	745	0.06104	0.122	

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

KRM 7/28/11

Data File: /var/chem/gcms/md.i/D072711.b/mk09t1aa.d

Report Date: 28-Jul-2011 11:31

TestAmerica Knoxville

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: md.i

Lab File ID: mk09t1aa.d

Lab Smp Id: MK09T1AA

Analysis Type: SV

Quant Type: ISTD

Operator: 60841

Method File: /chem/gcms/md.i/D072711.b/8270a9.m

Misc Info: D072711,8270a9,ICR.sub

Calibration Date: 27-JUL-2011

Calibration Time: 16:02

Client Smp ID: EXM-SRU-M0010-RGTBL

Level: LOW

Sample Type: AIR

COMPOUND =====	STANDARD =====	AREA LIMIT		SAMPLE =====	%DIFF =====
		LOWER =====	UPPER =====		
1 1,4-Dichlorobenze	44395	22198	88790	51566	16.15
2 Naphthalene-d8	182374	91187	364748	203509	11.59
3 Acenaphthene-d10	111075	55538	222150	123135	10.86
4 Phenanthrene-d10	217977	108988	435954	247631	13.60
5 Chrysene-d12	247793	123896	495586	267958	8.14
6 Perylene-d12	221015	110508	442030	241578	9.30

COMPOUND =====	STANDARD =====	RT LIMIT		SAMPLE =====	%DIFF =====
		LOWER =====	UPPER =====		
1 1,4-Dichlorobenze	4.30	3.80	4.80	4.30	0.00
2 Naphthalene-d8	5.89	5.39	6.39	5.89	0.00
3 Acenaphthene-d10	8.48	7.98	8.98	8.48	-0.07
4 Phenanthrene-d10	9.89	9.39	10.39	9.89	0.00
5 Chrysene-d12	11.93	11.43	12.43	11.92	-0.05
6 Perylene-d12	13.85	13.35	14.35	13.84	-0.08

AREA UPPER LIMIT = +100% of internal standard area.

AREA LOWER LIMIT = - 50% of internal standard area.

RT UPPER LIMIT = + 0.50 minutes of internal standard RT.

RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /var/chem/gcms/md.i/D072711.b/mk09t1aa.d

Report Date: 28-Jul-2011 11:31

TestAmerica Knoxville

RECOVERY REPORT

Client Name: TRC Environmental Co19-JUL-2011 00:00

Client SDG: H1G190403

Sample Matrix: GAS

Fraction: SV

Lab Smp Id: MK09T1AA

Client Smp ID: EXM-SRU-M0010-RGTBL

Level: LOW

Operator: 60841

Data Type: MS DATA

SampleType: SAMPLE

SpikeList File: allspike.spk

Quant Type: ISTD

Sublist File: ICR.sub

Method File: /chem/gcms/md.i/D072711.b/8270a9.m

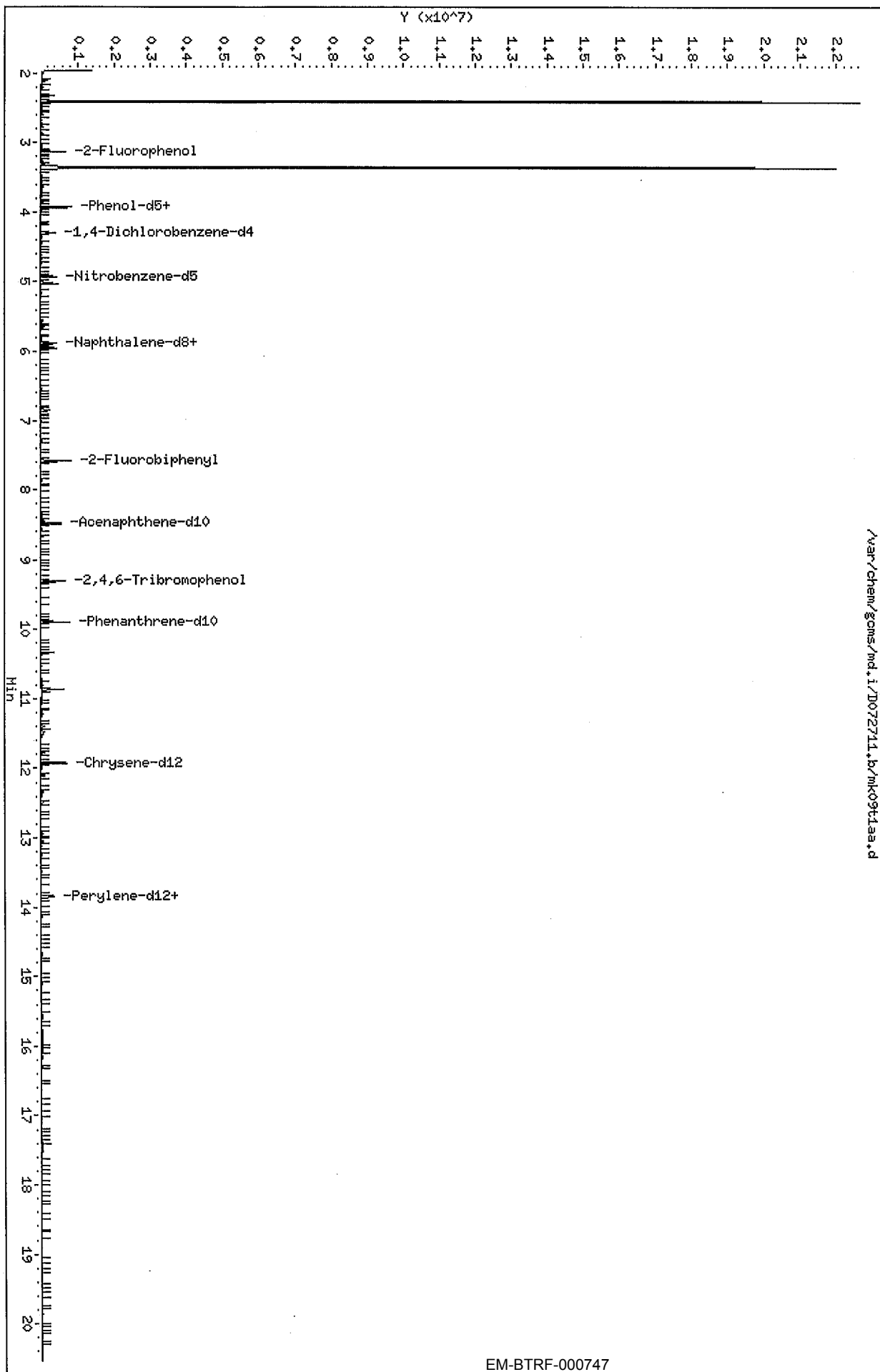
Misc Info: D072711,8270a9,ICR.sub

SURROGATE COMPOUND	CONC ADDED ug	CONC RECOVERED ug	% RECOVERED	LIMITS
\$ 7 2-Fluorophenol	150	87.1	58.09	19-100
\$ 8 Phenol-d5	150	118	78.81	15-124
\$ 9 Nitrobenzene-d5	100	73.4	73.44	42-104
\$ 11 2,4,6-Tribromophen	150	112	74.63	33-130
\$ 10 2-Fluorobiphenyl	100	75.9	75.88	51-103
\$ 12 Terphenyl-d14	100	0.00	0.00	58-122
\$ 179 13C6-naphthalene	200	3.49	1 25 *	50-150

Done
8.5.11

Data File: /var/chem/gcms/md.i/D072711.b/mk09t1aa.d
Date: 27-JUL-2011 23:04
Client ID: EXH-SRU-H0010-RGTBL
Sample Info: MK09T1AA,0,,
Volume Injected (uL): 1.0
Column Phase: Rxi-5 Sil MS

Instrument: md.i
Operator: 60841
Column diameter: 0.25



Data File: /var/chem/gcms/md.i/D072711.b/mk09t1aa.d

Date : 27-JUL-2011 23:04

Client ID: EXM-SRU-M0010-RGTBL

Instrument: md.i

Sample Info: MK09T1AA,,0,,

Volume Injected (uL): 1.0

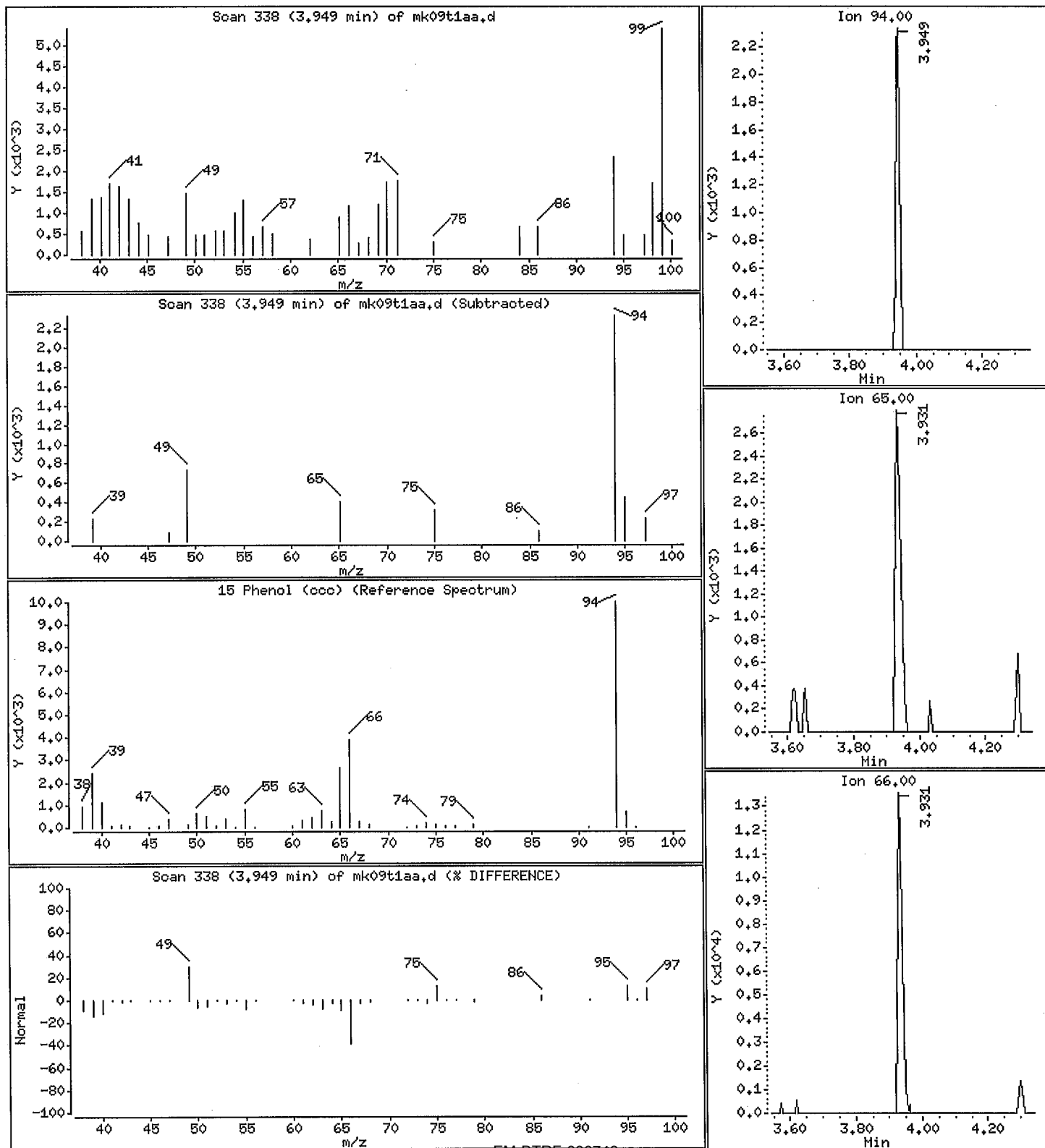
Operator: 60841

Column phase: Rxi-5 Sil MS

Column diameter: 0.25

15 Phenol (ooo)

Concentration: 1.14 ug



EM-BTRF-000748

Data File: /var/chem/gcms/md.i/D072711.b/mk09t1aa.d

Date : 27-JUL-2011 23:04

Client ID: EXM-SRU-M0010-RGTBL

Instrument: md.i

Sample Info: MK09T1AA,,0,,

Volume Injected (uL): 1.0

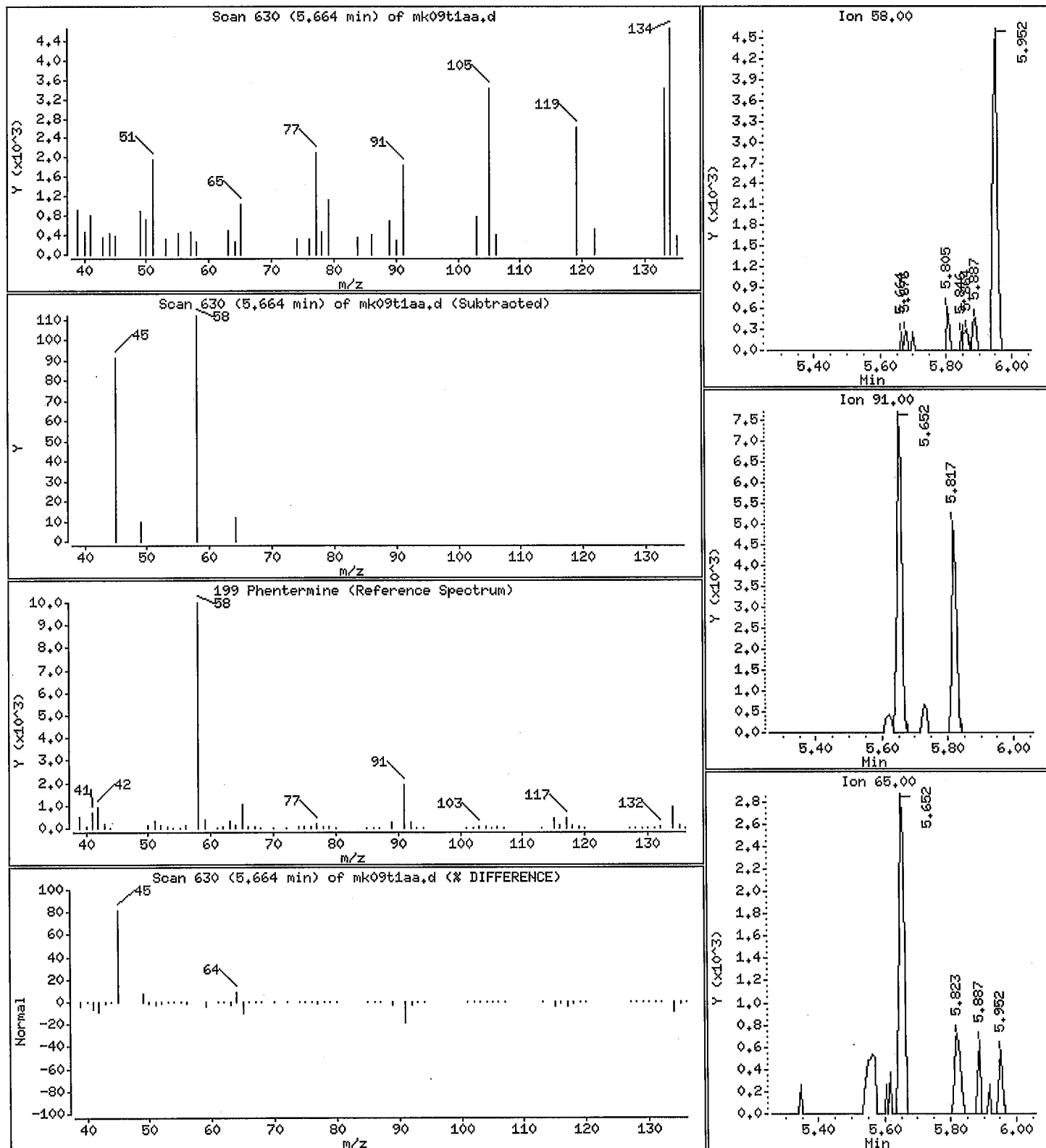
Operator: 60841

Column phase: Rxi-5 Sil MS

Column diameter: 0.25

199 Phentermine

Concentration: 11.8 ug



Data File: /var/chem/gcms/md.i/D072711.b/mk09t1aa.d

Date : 27-JUL-2011 23:04

Client ID: EXH-SRU-M0010-RGTBL

Instrument: md.i

Sample Info: MK09T1AA,,0,,

Volume Injected (uL): 1.0

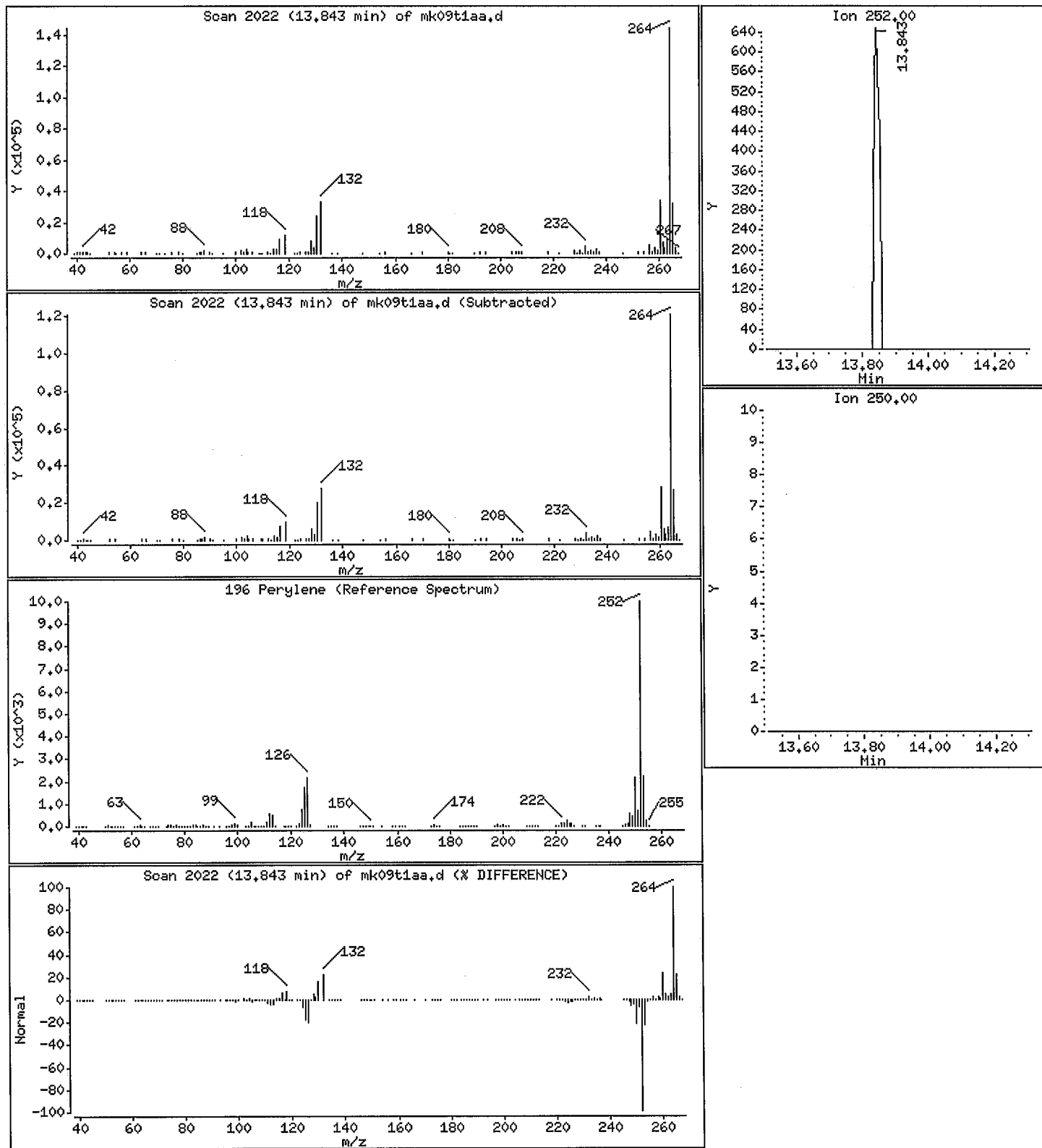
Operator: 60841

Column phase: Rxi-5 Sil MS

Column diameter: 0.25

196 Perylene

Concentration: 0.122 ug



EM-BTRF-000750

TRC Environmental Corporation

Client Sample ID: A-6486,A-6487 MEDIA CHECK

GC/MS Semivolatiles

Lot-Sample #....: H1G190403-005 Work Order #....: MK09V1AA Matrix.....: AIR
 Date Sampled....: 07/07/11 Date Received...: 07/19/11
 Prep Date.....: 07/20/11 Analysis Date...: 07/27/11
 Prep Batch #....: 1201076
 Dilution Factor: 2 Method.....: SW846 8270C

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acenaphthene	ND	20	ug	5.4
Acenaphthylene	ND	20	ug	5.6
Aniline	ND	20	ug	17
Anthracene	ND	20	ug	6.4
Benz(a)anthracene	ND	20	ug	6.2
Benzidine	ND	200	ug	120
Benzo(b)fluoranthene	ND	20	ug	8.2
Benzo(k)fluoranthene	ND	20	ug	9.8
Benzo(ghi)perylene	ND	20	ug	6.4
Benzo(a)pyrene	ND	20	ug	7.6
Benzo(e)pyrene	ND	20	ug	1.7
Biphenyl	ND	20	ug	2.0
Chrysene	ND	20	ug	6.2
Cresols (total)	ND	20	ug	16
Dibenz(a,h)anthracene	ND	20	ug	6.0
Dibenzofuran	ND	20	ug	5.6
Dibenzo(a,e)pyrene	ND	20	ug	1.4
3,3'-Dimethoxybenzidine	ND	200	ug	28
p-Dimethylaminoazobenzene	ND	20	ug	4.8
7,12-Dimethylbenz(a)-anthracene	ND	20	ug	7.0
3,3'-Dimethylbenzidine	ND	200	ug	36
alpha,alpha-Dimethylphenethylamine	ND	50	ug	17
2,4-Dimethylphenol	ND	20	ug	13
Fluoranthene	ND	20	ug	7.2
Fluorene	ND	20	ug	6.0
Indeno(1,2,3-cd)pyrene	ND	20	ug	6.2
Isophorone	ND	20	ug	5.6
3-Methylcholanthrene	ND	20	ug	7.6
2-Methylnaphthalene	ND	20	ug	5.8
Naphthalene	ND	20	ug	6.2
Nitrobenzene	ND	20	ug	5.8
Perylene	ND	20	ug	1.5
Phenanthrene	ND	20	ug	6.0
Phenol	ND	20	ug	6.2
1,4-Phenylenediamine	ND	200	ug	50
Pyrene	ND	20	ug	7.0
o-Toluidine	ND	20	ug	5.6

(Continued on next page)

TRC Environmental Corporation

Client Sample ID: A-6486,A-6487 MEDIA CHECK

GC/MS Semivolatiles

Lot-Sample #...: H1G190403-005 Work Order #...: MK09V1AA Matrix.....: AIR

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
2-Fluorophenol	82	(22 - 105)
Phenol-d5	89	(48 - 118)
Nitrobenzene-d5	80	(43 - 110)
2-Fluorobiphenyl	82	(48 - 111)
2,4,6-Tribromophenol	85	(34 - 125)

Data File: /var/chem/gcms/md.i/D072711.b/mk09v1aa.d
Report Date: 28-Jul-2011 11:31

TestAmerica Knoxville

Semivolatile Organic Compounds by GC/MS

Data file : /var/chem/gcms/md.i/D072711.b/mk09v1aa.d
Lab Smp Id: MK09V1AA Client Smp ID: A-6486,A-6487 MEDIA
Inj Date : 27-JUL-2011 23:32 /
Operator : 60841 Inst ID: md.i
Smp Info : MK09V1AA,,0,,,
Misc Info : D072711,8270a9,ICR.sub
Comment : Semivolatile Organic Compounds by GC/MS
Method : /chem/gcms/md.i/D072711.b/8270a9.m
Meth Date : 27-Jul-2011 17:16 mcgeek Quant Type: ISTD
Cal Date : 26-JUL-2011 17:42 Cal File: a9dg267.d
Als bottle: 19
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ICR.sub
Target Version: 3.50
Processing Host: qmidhp01

Concentration Formula: Amt * DF * (Vt*Sf)/(Vo*Uf) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	1000.00000	Volume of final extract (uL)
Sf	2.00000	Prep split factor
Vo	1.00000	Volume of sample extracted (1=total samp
Uf	1000.00000	unit correction factor

Cpnd Variable

Local Compound Variable

Compounds	QUANT SIG	MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN (ng/uL)	FINAL (ug)
* 1 1,4-Dichlorobenzene-d4	=====	152	4.301	4.301	(1.000)	50295	20.0000	20.0
* 2 Naphthalene-d8	=====	136	5.888	5.887	(1.000)	199839	20.0000	20.0
* 3 Acenaphthene-d10	=====	164	8.485	8.484	(1.000)	116484	20.0000	20.0
* 4 Phenanthrene-d10	=====	188	9.895	9.895	(1.000)	236629	20.0000	20.0
* 5 Chrysene-d12	=====	240	11.922	11.928	(1.000)	268417	20.0000	20.0
* 6 Perylene-d12	=====	264	13.849	13.855	(1.000)	258736	20.0000	20.0
\$ 7 2-Fluorophenol	=====	112	3.132	3.126	(0.728)	170385	61.3610	123
\$ 8 Phenol-d5	=====	99	3.931	3.931	(0.914)	223892	67.2471	134
\$ 9 Nitrobenzene-d5	=====	82	4.924	4.930	(0.836)	127873	40.1548	80.3
\$ 11 2,4,6-Tribromophenol	=====	330	9.307	9.307	(0.941)	60588	63.9560	128
\$ 10 2-Fluorobiphenyl	=====	172	7.586	7.591	(0.894)	300603	41.2532	82.5
\$ 179 13C6-naphthalene	=====	134	5.888	5.917	(1.000)	18501	1.70364	3.44(R) NA
199 Phentermine	=====	58	5.882	5.658	(0.999)	249	5.92468	11.8

RAM 7/28/11

Data File: /var/chem/gcms/md.i/D072711.b/mk09v1aa.d

Report Date: 28-Jul-2011 11:31

Compounds	QUANT SIG						CONCENTRATIONS	
	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ng/uL)	FINAL (ug)	
=====	====	==	=====	=====	=====	=====	=====	
188 1,1'-Biphenyl	154	7.580	7.732	(0.893)	549	0.05954	0.119	
196 Perylene	252	13.849	13.908	(1.000)	813	0.06222	0.124	

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

KRM 7/28/11

Data File: /var/chem/gcms/md.i/D072711.b/mk09v1aa.d

Report Date: 28-Jul-2011 11:31

TestAmerica Knoxville

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: md.i

Lab File ID: mk09v1aa.d

Lab Smp Id: MK09V1AA

Analysis Type: SV

Quant Type: ISTD

Operator: 60841

Method File: /chem/gcms/md.i/D072711.b/8270a9.m

Misc Info: D072711,8270a9,ICR.sub

Calibration Date: 27-JUL-2011

Calibration Time: 16:02

Client Smp ID: A-6486,A-6487 MEDIA

Level: LOW

Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
1 1,4-Dichlorobenze	44395	22198	88790	50295	13.29
2 Naphthalene-d8	182374	91187	364748	199839	9.58
3 Acenaphthene-d10	111075	55538	222150	116484	4.87
4 Phenanthrene-d10	217977	108988	435954	236629	8.56
5 Chrysene-d12	247793	123896	495586	268417	8.32
6 Perylene-d12	221015	110508	442030	258736	17.07

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
1 1,4-Dichlorobenze	4.30	3.80	4.80	4.30	0.00
2 Naphthalene-d8	5.89	5.39	6.39	5.89	0.00
3 Acenaphthene-d10	8.48	7.98	8.98	8.48	0.00
4 Phenanthrene-d10	9.89	9.39	10.39	9.89	0.00
5 Chrysene-d12	11.93	11.43	12.43	11.92	-0.05
6 Perylene-d12	13.85	13.35	14.35	13.85	-0.04

AREA UPPER LIMIT = +100% of internal standard area.

AREA LOWER LIMIT = - 50% of internal standard area.

RT UPPER LIMIT = + 0.50 minutes of internal standard RT.

RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /var/chem/gcms/md.i/D072711.b/mk09v1aa.d

Report Date: 28-Jul-2011 11:31

TestAmerica Knoxville

RECOVERY REPORT

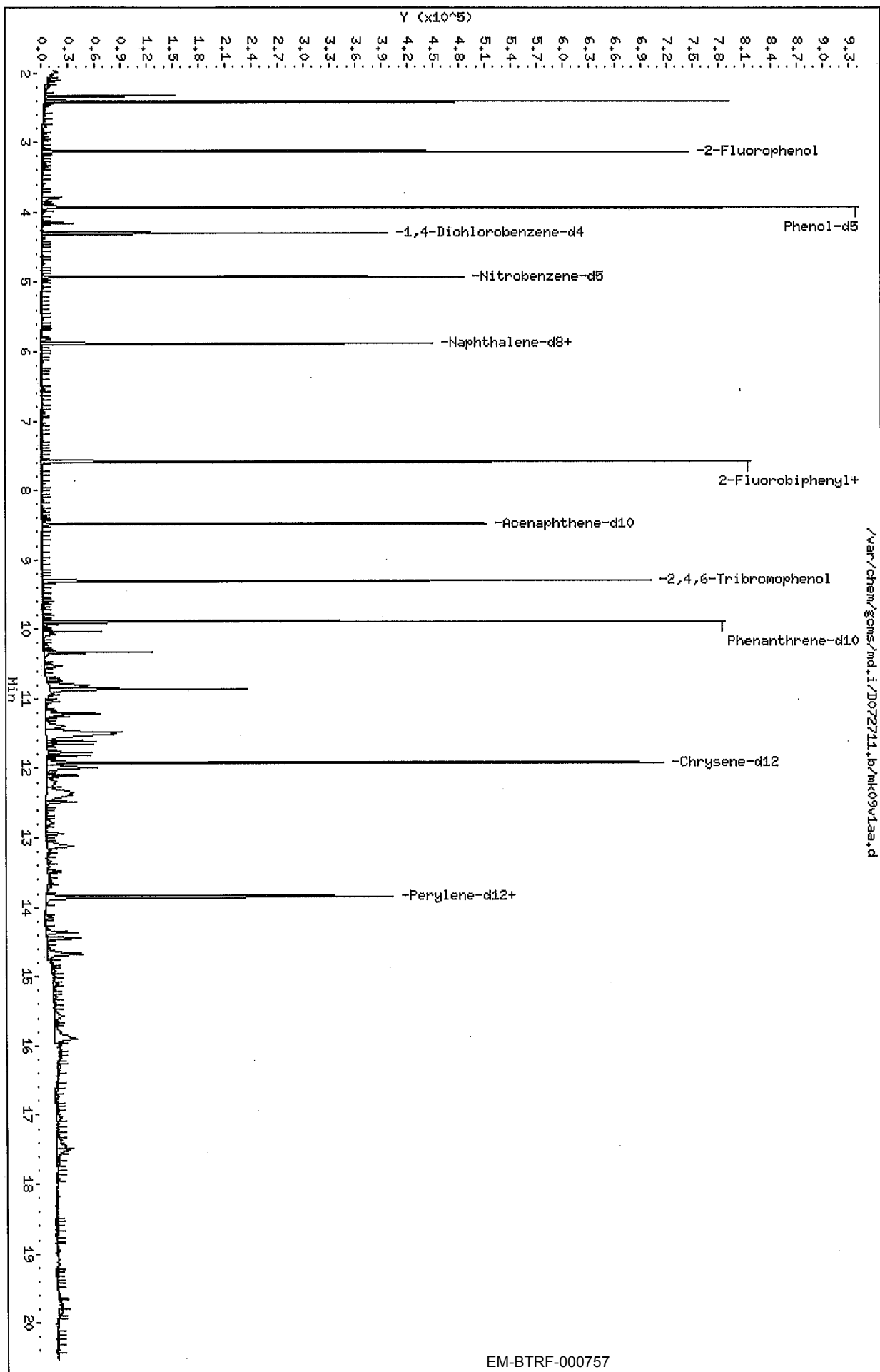
Client Name: TRC Environmental Co19-JUL-2011 00:00 Client SDG: H1G190403
 Sample Matrix: GAS Fraction: SV
 Lab Smp Id: MK09V1AA Client Smp ID: A-6486,A-6487 MEDIA
 Level: LOW Operator: 60841
 Data Type: MS DATA SampleType: SAMPLE
 SpikeList File: allspike.spk Quant Type: ISTD
 Sublist File: ICR.sub
 Method File: /chem/gcms/md.i/D072711.b/8270a9.m
 Misc Info: D072711,8270a9,ICR.sub

SURROGATE COMPOUND	CONC ADDED ug	CONC RECOVERED ug	% RECOVERED	LIMITS
\$ 7 2-Fluorophenol	150	123	81.81	19-100
\$ 8 Phenol-d5	150	134	89.66	15-124
\$ 9 Nitrobenzene-d5	100	80.3	80.31	42-104
\$ 11 2,4,6-Tribromophen	150	128	85.27	33-130
\$ 10 2-Fluorobiphenyl	100	82.5	82.51	51-103
\$ 12 Terphenyl-d14	100	82.00	82.00*	58-122
\$ 179 13C6-naphthalene	200	3241	1.70*	50-150

New
8.5.11

Data File: /var/chem/gcms/md.i/D072711.b/mk09v1aa.d
Date: 27-JUL-2011 23:32
Client ID: A-6486,A-6487 MEDIA
Sample Info: MK09V1AA,0,,
Volume Injected (uL): 1.0
Column phase: Rxi-5 Sil MS

Instrument: md.i
Operator: 60841
Column diameter: 0.25



Data File: /var/chem/gcms/md.i/D072711.b/mk09v1aa.d

Date : 27-JUL-2011 23:32

Client ID: A-6486,A-6487 MEDIA

Instrument: md.i

Sample Info: MK09V1AA,,0,,

Volume Injected (uL): 1.0

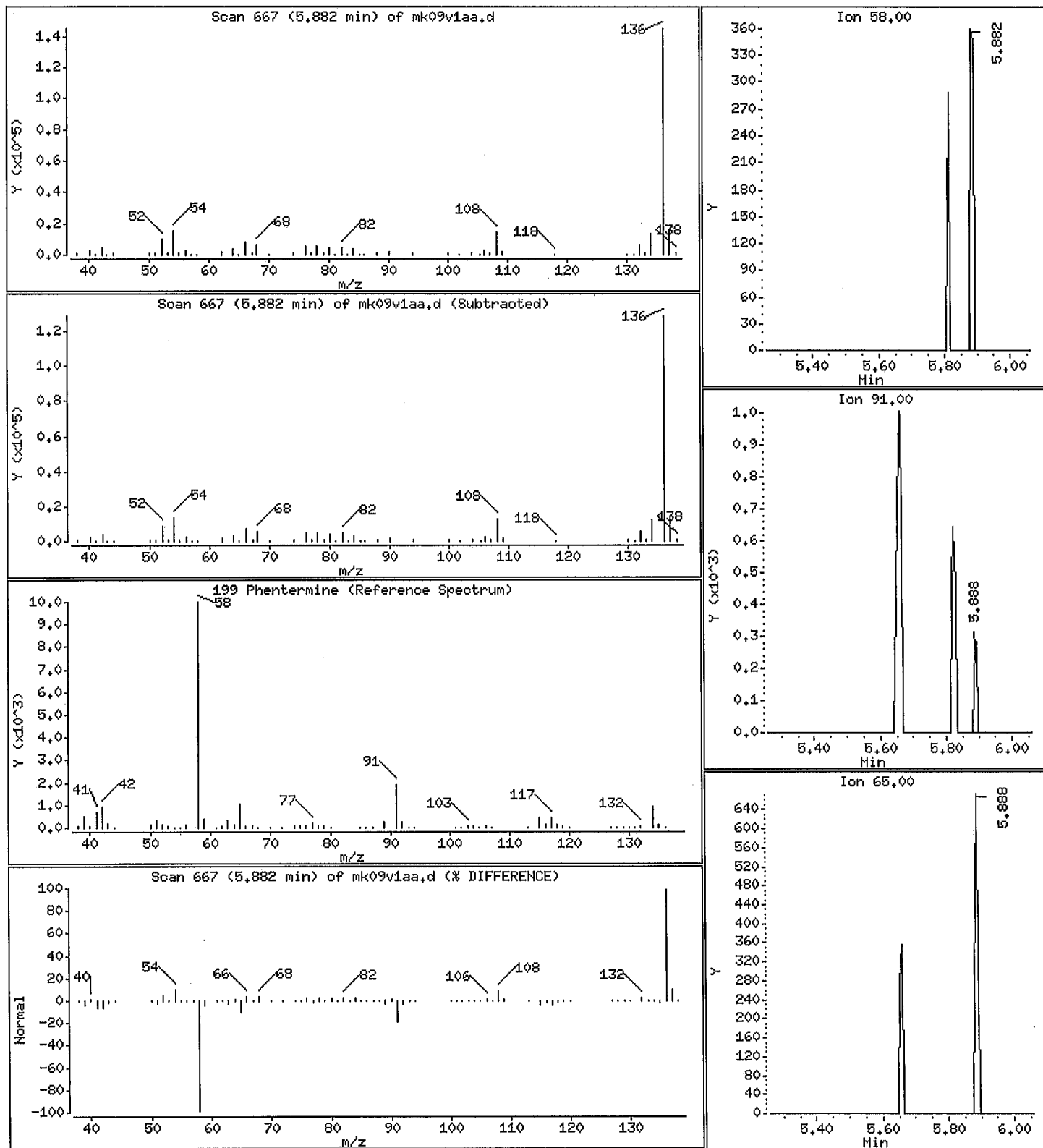
Operator: 60841

Column phase: Rxi-5 Sil MS

Column diameter: 0.25

199 Phentermine

Concentration: 11.8 ug



EM-BTRF-000758

Data File: /var/chem/gcms/md.i/D072711.b/mk09v1aa.d

Date : 27-JUL-2011 23:32

Client ID: A-6486,A-6487 MEDIA

Instrument: md.i

Sample Info: MK09V1AA,,0,,

Volume Injected (uL): 1.0

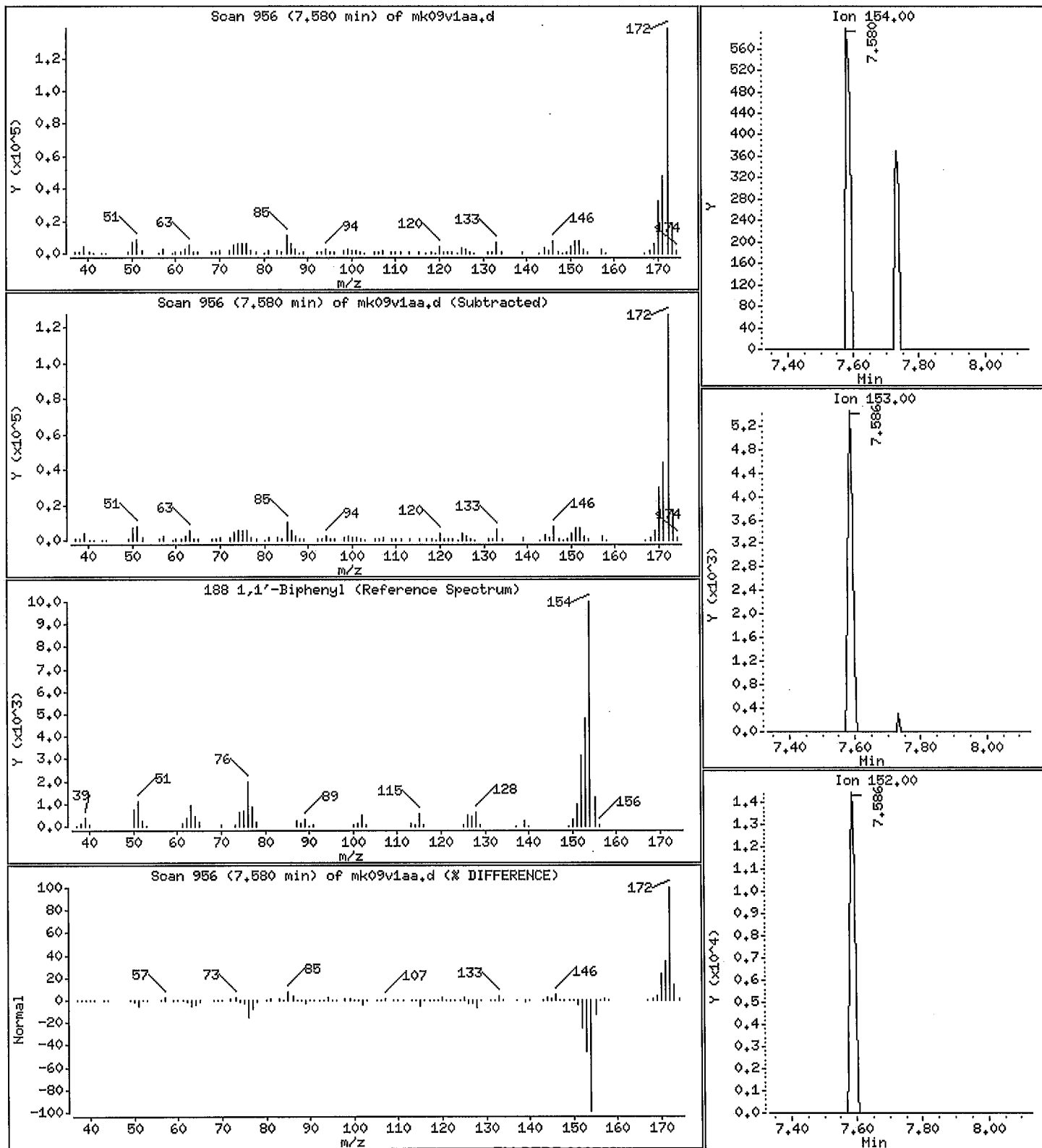
Operator: 60841

Column phase: Rxi-5 Sil MS

Column diameter: 0.25

188 1,1'-Biphenyl

Concentration: 0.119 ug



EM-BTRF-000759

Data File: /var/chem/gcms/md.i/D072711.b/mk09v1aa.d

Date : 27-JUL-2011 23:32

Client ID: A-6486,A-6487 MEDIA

Instrument: md.i

Sample Info: MK09V1AA,,0,,

Volume Injected (uL): 1.0

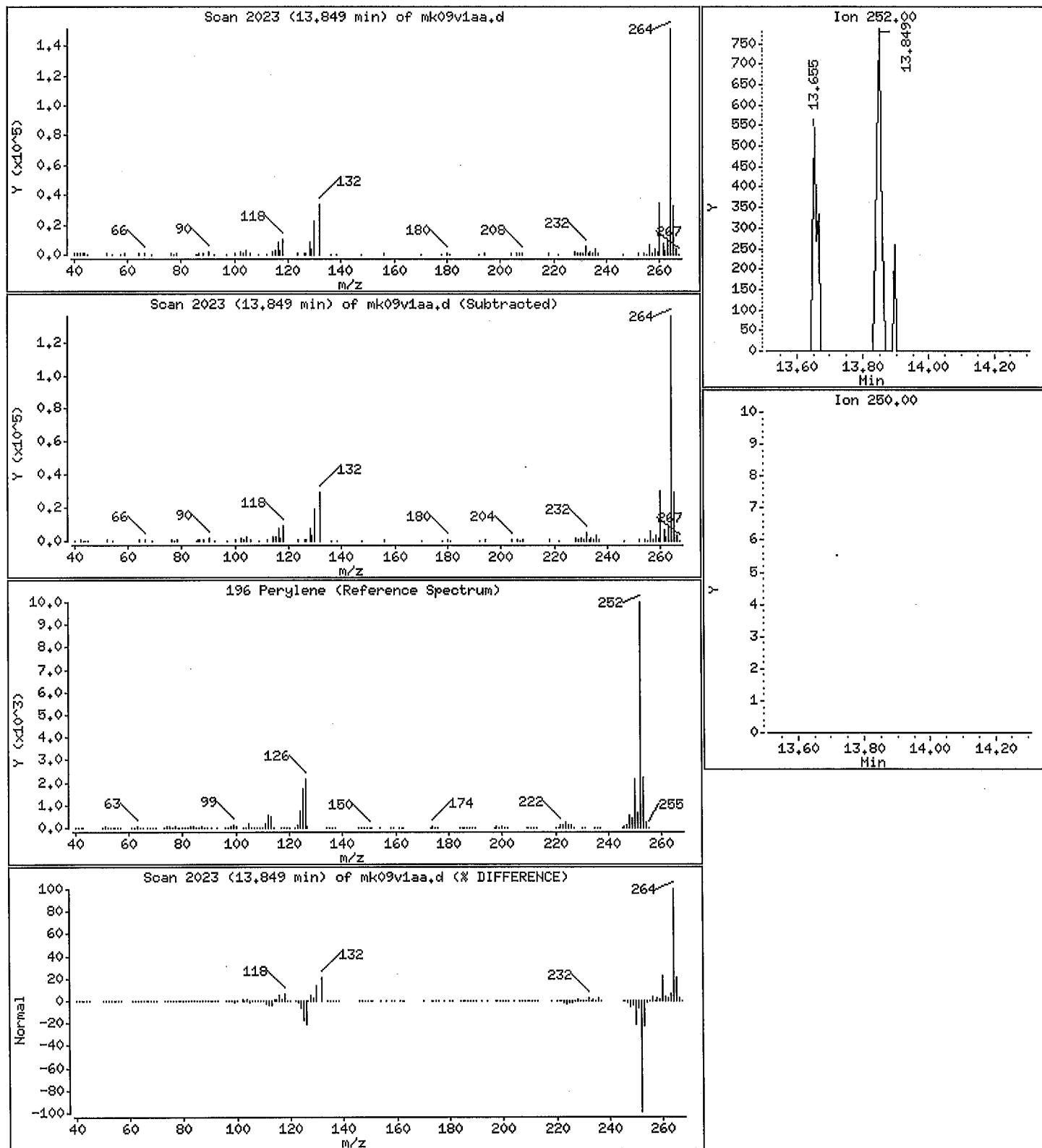
Operator: 60841

Column phase: Rxi-5 Sil MS

Column diameter: 0,25

196 Perylene

Concentration: 0,124 ug



EM-BTRF-000760

Standards Data

TestAmerica Knoxville Semivolatiles GC/MS Initial Calibration Data Review / Narrative Checklist
Method 8270C - KNOX-MS-0016, Rev 10 and Method TO-13A Mod - KNOX-MS-0017, Rev 4

Analysis Date:	7/25-26/11	Instrument:	MD	ICAL Batch/Scan Name:	D072611I	Scanned <input type="checkbox"/>
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Review Items	N/A	Yes	No	If No, why is data reportable?	2nd
1. Did DFTPP meet tune criteria?		✓			✓
2. Was DDT breakdown ≤20% & benzidine tailing ≤3 and PCP tailing ≤5?		✓			✓
3. Were all standards injected within 12 hr of DFTPP?		✓			✓
4. Was date/time of analysis verified between analysis header and logbook as correct?		✓			✓
5. Was the high point std. checked for saturation		✓			✓
6. Were ≥ 5 levels of each compound/surrogate analyzed?		✓			✓
7. Was low level standard at or below RL?		✓			✓
8. Are the average RFs for SPCCs ≥ 0.050? (8270C)		✓			✓
9. Do the RRFs meet minimum criteria? (TO-13A Mod)		✓			✓
10. Are %RSD ≤30% for CCCs? (8270C)		✓			✓
11. Are %RSD ≤ 30% for all target analytes? (TO-13A Mod)		✓			✓
12. Was a linear fit or quadratic fit used for analytes >15% RSD?		✓			✓
13. If curves were used, is correlation coefficient ≥0.990?		✓			✓
14. At least 6 consecutive points used for quadratic curves?		✓			✓
15. For quadratic: is a tangent's slope to the curve entirely positive or negative and continuous.		✓			✓
16. Is the "Y" intercept less than 1/2 the RL for each curve?		✓			✓
17. RT for each IS ±20 sec avg. RT? (TO-13A)		✓			✓
18. Each analyte ±0.06 RRT of avg. RRT? (TO-13A)		✓			✓
19. If manual integrations were performed, are they clearly identified, initialed, dated and reason given?	✓			Reasons: 1)Corrected split peak; 2)Unresolved peak; 3)tailings; 4)RT shift; 5)wrong peak selected; 6)other	NA
20. Were all peaks identified automatically? If not, list analytes:		✓			✓
21. Are ICAL start and end dates/times correct on ICAL summary?		✓			✓
22. Elution order checked on isomeric pairs?		✓			✓
• 1,4-dichlorobenzene-d4 / 1,2-dichlorobenzene-d4		✓			✓
• aniline / bis(2-chloroethyl)ether		✓			✓
• 1,3-, 1,4-, 1,2-dichlorobenzene		✓			✓
• benzyl alcohol / 2-methylphenol / 4-methylphenol		✓			✓
• 2,4,6- and 2,4,5-trichlorophenol		✓			✓
• phenanthrene / anthracene		✓			✓
• fluoranthene / pyrene		✓			✓
• benzo(a)anthracene / chrysene		✓			✓
• bis(2-ethylhexyl)/di-n-octyl phthalate		✓			✓
• benzo(b)fluoranthene / benzo(k)fluoranthene		✓			✓
• indeno(1,2,3-cd)pyrene / benzo(g,h,i)perylene		✓			✓
• saffrole/1-chloronaphthalene/2-chloronaphthalene		✓			✓
• 1-/2-naphthylamine		✓			✓
23. If criteria were not met, was a NCM generated, approved by supervisor, and copy included in folder?	✓			NCM #: _____	NA
24. Does the ICAL folder contain complete data in the following order? Data review checklist, tune pass/fail page, m/z list, tune chromatogram, ICAL summary, curves, followed by Quant reports, chromatograms and manual integrations, in order from low to high standard.		✓			✓
25. Was the 2nd source calibration verification standard within ± 30% recovery and are results in ICAL folder? (20% DOP)		✓		1,3,5-Trnbz to 45%.	✓
Analyst: KRM		Date: 7/26/11		2nd Level Reviewer: JMW	Date: 7/27/11
Comments: 1,3,5-Trinitrobenzene 45%.		Comments:			

TestAmerica Knoxville Semi-volatile GC/MS Initial Calibration Data Review / Narrative Checklist
Supplemental checklist for Method 8270D - KNOX-MS-0024, Rev 0

Analysis Date: 7/25-26/11	Instrument: MD	ICAL Batch/Scan Name: D072611I	Scanned <input type="checkbox"/>
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Review Items	N/A	Yes	No	If No, why is data reportable?	2nd <input type="checkbox"/>
1. Benzidine and PCP tailing ≤ 2 ?		✓			✓
2. Do the RRFs meet minimum criteria (for points \geq RL)?		✓			✓
3. Was a linear fit or quadratic fit used for analytes $>20\%$ RSD?		✓			✓
4. For linear or quadratic fits, is correlation coefficient ≥ 0.990 ?		✓			✓
5. Is %RSD $\leq 20\%$ AND correlation coefficient ≥ 0.990 for 90% of compounds?		✓			✓
6. For analytes changed to <u>linear fit only</u> , does the RL standard requantitated against I-cal $\pm 30\%$ recovery?		✓			✓
7. Mid-point – benzo(b & k)fluoranthene: height of the valley between must be less than 50% of the average of the two peak heights?		✓			✓

Analyst: KRM	Date: 8/10/11	2nd Level Reviewer : <i>[Signature]</i>	Date: 8/10/11
Comments:		Comments:	

* Such action must be taken in consultation with client.

MS060r1.doc, 022111

NOTE: Nonconformance memos are required for **bold** and *italicized* autotext statements: **Bold** = deficiency, *italicized* = anomaly.

Data File: /chem/gcms/md.i/D0725111.b/dfdg25.d

Date : 25-JUL-2011 12:09

Client ID: Tune

Instrument: md.i

Sample Info: DFDG25,,3,,DFTPP,

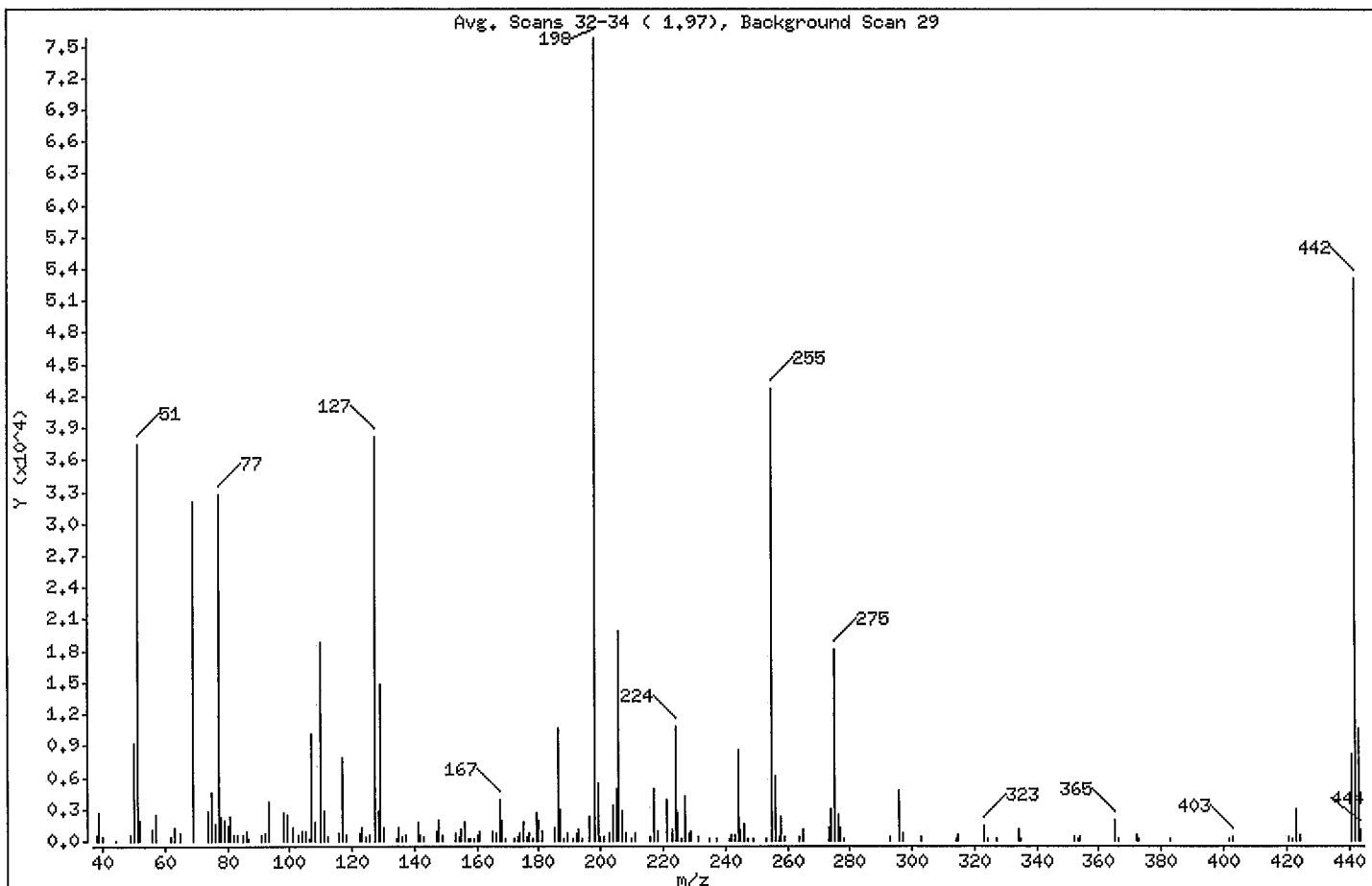
Operator: 60841

Column phase: Rxi-5 Sil MS

Column diameter: 0,25

1 dftpp

Avg. Scans 32-34 (1.97), Background Scan 29



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	30.00 - 60.00% of mass 198	49.42
68	Less than 1.99% of mass 69	0.00 (0.00)
69	Present, but less than mass 198	42.28
70	Less than 1.99% of mass 69	0.00 (0.00)
127	40.00 - 60.00% of mass 198	50.32
197	Less than 0.99% of mass 198	0.00
199	5.00 - 9.00% of mass 198	7.06
275	10.00 - 30.00% of mass 198	23.90
365	1.01 - 100.00% of mass 198	2.51
441	Present, but less than mass 443	10.74
442	50.01 - 110.00% of mass 198	70.18
443	17.00 - 23.00% of mass 442	14.06 (20.03)

Data File: /chem/goms/md,i/D0725111.b/dfdg25.d

Date : 25-JUL-2011 12:09

Client ID: Tune

Instrument: md,i

Sample Info: DFDG25,,3,,DFTPP,

Operator: 60841

Column phase: Rxi-5 Sil MS

Column diameter: 0,25

Data File: dfdg25.d

Spectrum: Avg. Scans 32-34 (1,97), Background Scan 29

Location of Maximum: 198,00

Number of points: 174

m/z	Y	m/z	Y	m/z	Y	m/z	Y

| 38,00	519	| 118,00	544	| 186,00	10632	| 255,00	42744
| 39,00	2551	| 122,00	710	| 187,00	2937	| 256,00	6109
| 40,00	354	| 123,00	1183	| 188,00	235	| 257,00	330
| 44,00	81	| 124,00	432	| 189,00	621	| 258,00	2216
| 49,00	599	| 125,00	457	| 191,00	183	| 259,00	291

| 50,00	9262	| 127,00	38128	| 192,00	713	| 264,00	379
| 51,00	37456	| 128,00	2736	| 193,00	1027	| 265,00	996
| 52,00	1896	| 129,00	14893	| 194,00	181	| 273,00	1182
| 56,00	1035	| 130,00	1251	| 196,00	2345	| 274,00	2998
| 57,00	2432	| 134,00	210	| 198,00	75784	| 275,00	18112

| 62,00	282	| 135,00	1136	| 199,00	5347	| 276,00	2482
| 63,00	1255	| 136,00	429	| 200,00	303	| 277,00	1222
| 65,00	666	| 137,00	598	| 201,00	317	| 278,00	208
| 69,00	32040	| 141,00	1776	| 203,00	620	| 293,00	275
| 74,00	2812	| 142,00	510	| 204,00	3293	| 296,00	4702

| 75,00	4516	| 143,00	400	| 205,00	4889	| 297,00	648
| 76,00	1570	| 147,00	936	| 206,00	19792	| 303,00	379
| 77,00	32728	| 148,00	1933	| 207,00	2766	| 314,00	201
| 78,00	2289	| 149,00	609	| 208,00	767	| 315,00	562
| 79,00	1900	| 153,00	645	| 210,00	259	| 323,00	1356

| 80,00	1472	| 154,00	396	| 211,00	764	| 324,00	199
| 81,00	2235	| 155,00	959	| 216,00	265	| 327,00	227
| 82,00	578	| 156,00	1656	| 217,00	4866	| 334,00	1018
| 83,00	548	| 157,00	219	| 218,00	825	| 335,00	203
| 85,00	488	| 158,00	196	| 221,00	3844	| 352,00	385

| 86,00	818	| 159,00	180	| 223,00	1116	| 353,00	235
| 87,00	194	| 160,00	568	| 224,00	10856	| 354,00	357
| 91,00	541	| 161,00	826	| 225,00	2583	| 365,00	1905
| 92,00	619	| 165,00	853	| 226,00	250	| 366,00	255
| 93,00	3704	| 166,00	692	| 227,00	4109	| 372,00	604

| 98,00	2650	| 167,00	3805	| 228,00	616	| 373,00	197
| 99,00	2366	| 168,00	1877	| 229,00	876	| 383,00	228
| 101,00	1215	| 169,00	259	| 231,00	370	| 402,00	201
| 103,00	461	| 172,00	168	| 235,00	201	| 403,00	308
| 104,00	844	| 173,00	430	| 237,00	196	| 421,00	264

Data File: /chem/gcms/md.i/D072511I.b/dfdg25.d

Date : 25-JUL-2011 12:09

Client ID: Tune

Instrument: md.i

Sample Info: DFDG25,,3,,DFTPP,

Operator: 60841

Column phase: Rxi-5 Sil MS

Column diameter: 0,25

Data File: dfdg25.d

Spectrum: Avg. Scans 32-34 (1,97), Background Scan 29

Location of Maximum: 198,00

Number of points: 174

m/z	Y	m/z	Y	m/z	Y	m/z	Y
| 105,00	897	| 174,00	736	| 241,00	168	| 422,00	244
| 106,00	190	| 175,00	1673	| 242,00	497	| 423,00	2956
| 107,00	10084	| 176,00	327	| 243,00	562	| 424,00	527
| 108,00	1786	| 177,00	637	| 244,00	8468	| 441,00	8142
| 110,00	18888	| 178,00	227	| 245,00	1114	| 442,00	53184
| 111,00	2730	| 179,00	2696	| 246,00	1503	| 443,00	10654
| 112,00	388	| 180,00	1891	| 247,00	180	| 444,00	1021
| 116,00	657	| 181,00	798	| 249,00	184		
| 117,00	7758	| 185,00	1234	| 253,00	192		

Data File: /chem/gcms/md.i/D072511I,b/dfdg25,d

Date : 25-JUL-2011 12:09

Client ID: Tune

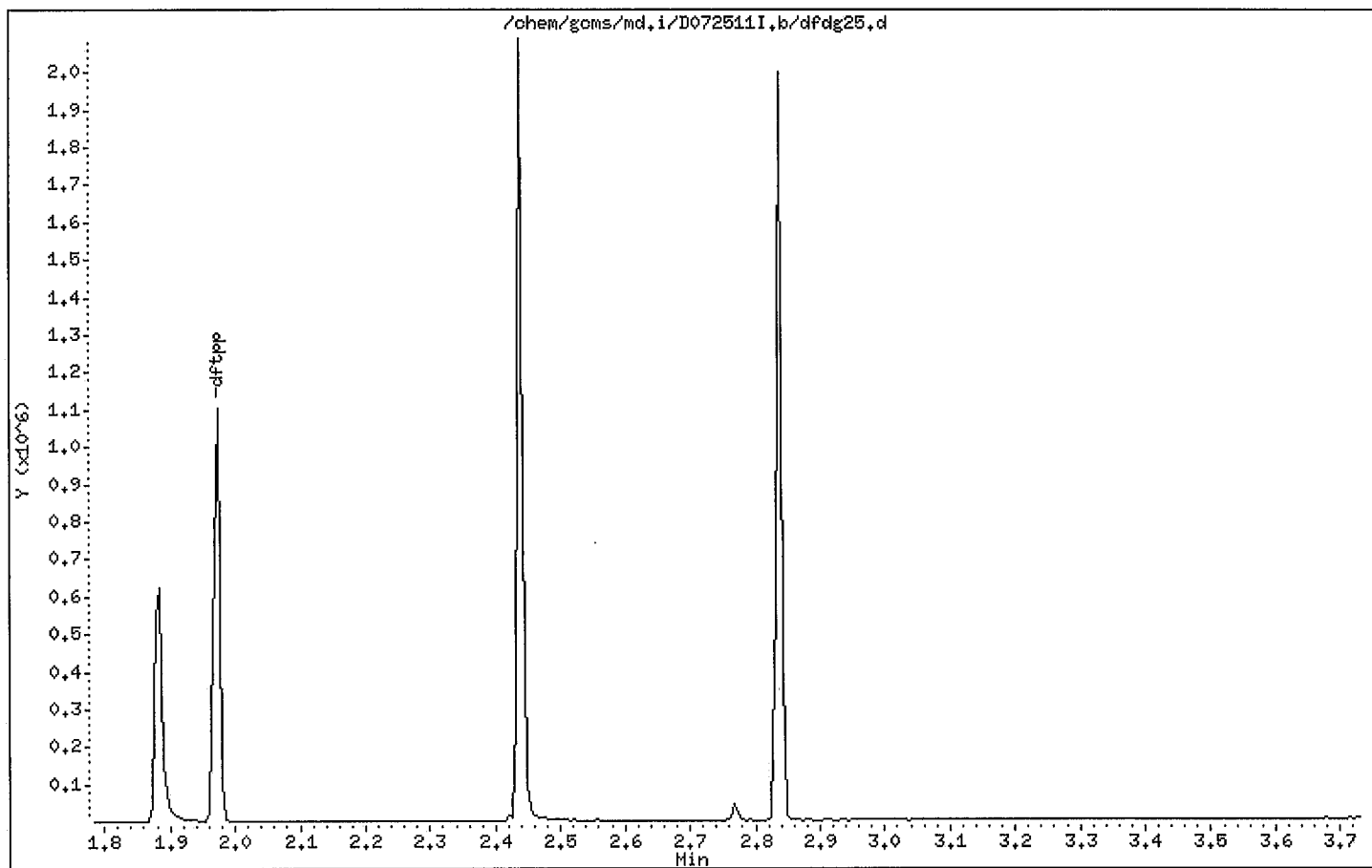
Instrument: md.i

Sample Info: DFDG25,,3,,DFTPP,

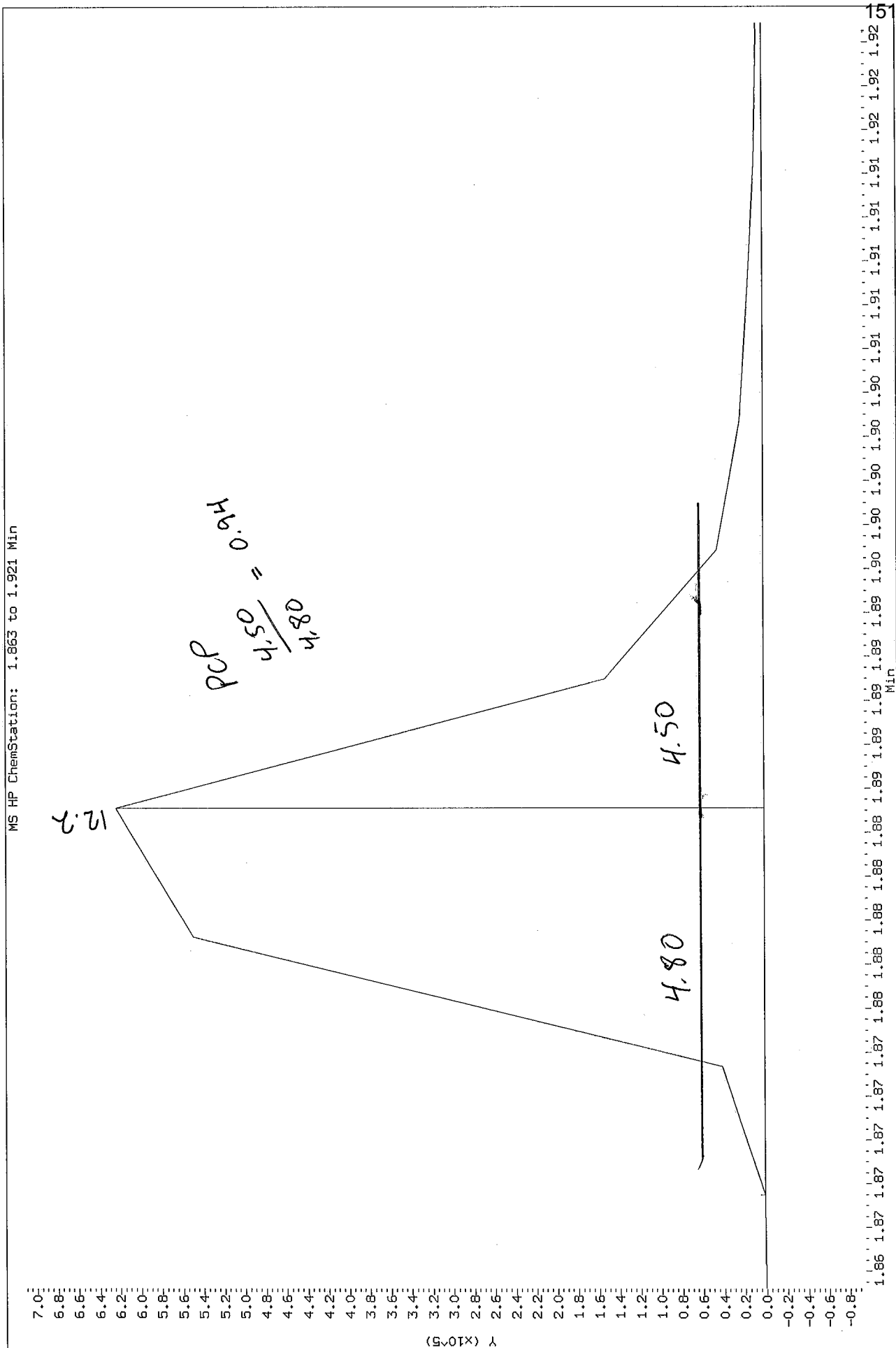
Operator: 60841

Column phase: Rxi-5 Sil MS

Column diameter: 0,25

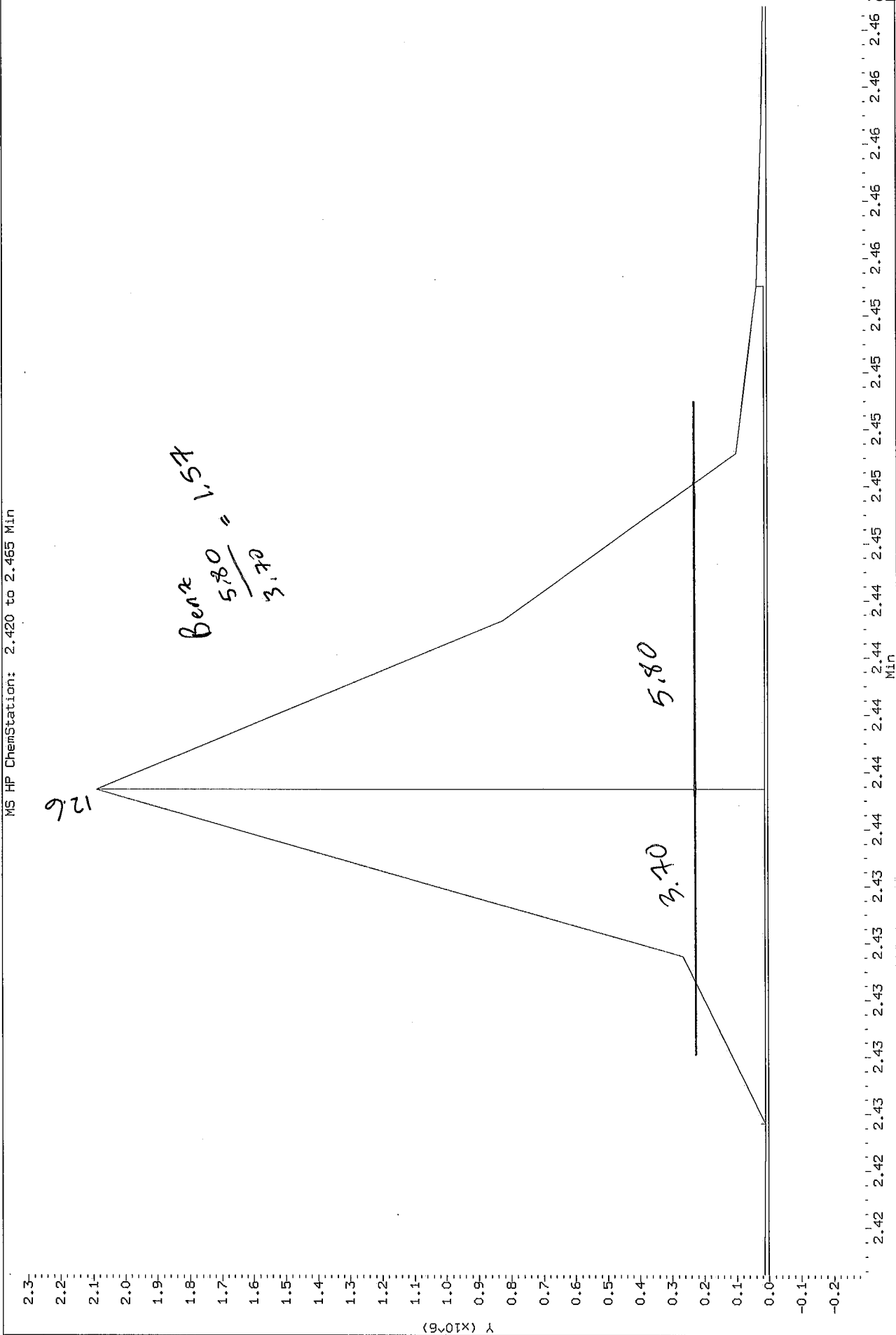


Data File: /var/chem/gcms/md.1/D0725111.b/dfdg25.d
Injection Date: 25-JUL-2011 12:09
Instrument: md.i
Client Sample ID: Tune



Data File: /var/chem/gcms/md.i/D0725111.b/dftg25.d
Injection Date: 25-JUL-2011 12:09
Instrument: md.i
Client Sample ID: Tune

MS HP ChemStation: 2.420 to 2.465 Min



Data File: /chem/gcms/md.i/D072611I.b/dfdg26.d

Date : 26-JUL-2011 10:12

Client ID: Tune

Instrument: md.i

Sample Info: DFDG26,,3,,DFTPP,

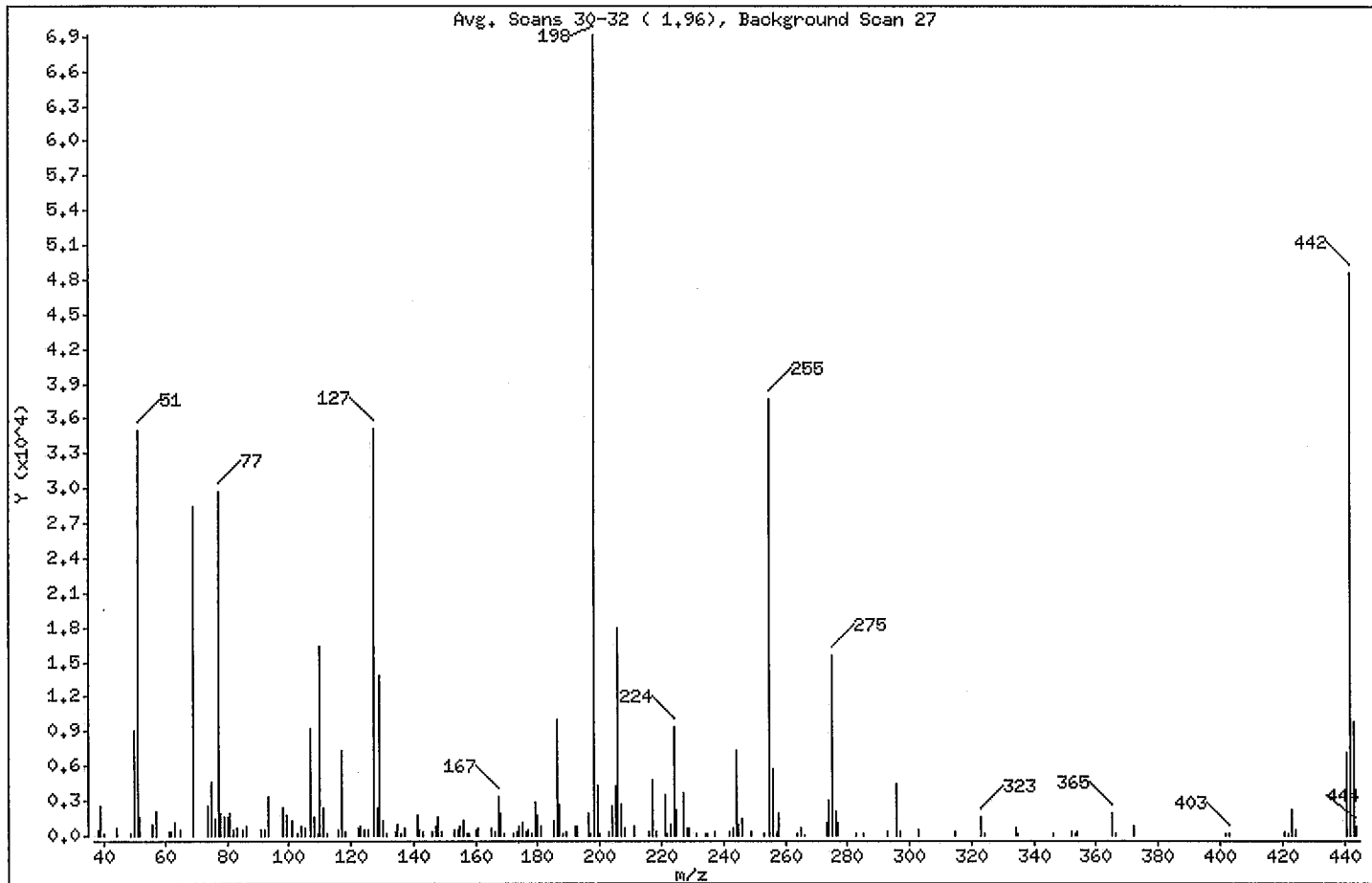
Operator: 60841

Column phase: Rxi-5 Sil MS

Column diameter: 0.25

1 dftpp

Avg. Scans 30-32 (1.96), Background Scan 27



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	30.00 - 60.00% of mass 198	50.58
68	Less than 1.99% of mass 69	0.00 (0.00)
69	Present, but less than mass 198	41.05
70	Less than 1.99% of mass 69	0.00 (0.00)
127	40.00 - 60.00% of mass 198	50.76
197	Less than 0.99% of mass 198	0.34
199	5.00 - 9.00% of mass 198	6.30
275	10.00 - 30.00% of mass 198	22.60
365	1.01 - 100.00% of mass 198	2.69
441	Present, but less than mass 443	10.38
442	50.01 - 110.00% of mass 198	70.38
443	17.00 - 23.00% of mass 442	14.18 (20.15)

Data File: /chem/gcms/md.i/D072611I.b/dfdg26.d

Date : 26-JUL-2011 10:12

Client ID: Tune

Instrument: md.i

Sample Info: DFDG26,,3,,DFTPP,

Operator: 60841

Column phase: Rxi-5 Sil MS

Column diameter: 0.25

Data File: dfdg26.d

Spectrum: Avg. Scans 30-32 (1.96), Background Scan 27

Location of Maximum: 198.00

Number of points: 169

m/z	Y	m/z	Y	m/z	Y	m/z	Y
38.00	411	117.00	7274	180.00	1804	255.00	37704
39.00	2467	118.00	364	181.00	838	256.00	5771
40.00	184	122.00	600	185.00	1208	257.00	360
44.00	638	123.00	826	186.00	9941	258.00	1931
49.00	215	124.00	431	187.00	2755	264.00	179
50.00	9057	125.00	511	188.00	181	265.00	679
51.00	34968	127.00	35088	189.00	320	266.00	14
52.00	1668	128.00	2452	192.00	781	273.00	1167
56.00	1015	129.00	13862	193.00	817	274.00	2993
57.00	2003	130.00	1205	196.00	1832	275.00	15621
61.00	272	131.00	219	197.00	232	276.00	2068
62.00	354	134.00	244	198.00	69128	277.00	1074
63.00	1165	135.00	978	199.00	4355	283.00	174
65.00	549	136.00	213	200.00	189	285.00	190
69.00	28376	137.00	640	203.00	361	293.00	291
74.00	2477	141.00	1690	204.00	2529	296.00	4372
75.00	4536	142.00	509	205.00	4215	297.00	304
76.00	1437	143.00	330	206.00	18000	303.00	461
77.00	29696	146.00	258	207.00	2670	315.00	315
78.00	1925	147.00	749	208.00	647	323.00	1554
79.00	1590	148.00	1637	211.00	748	324.00	173
80.00	1558	149.00	275	216.00	298	334.00	588
81.00	1943	153.00	543	217.00	4724	335.00	189
82.00	484	154.00	489	218.00	370	346.00	202
83.00	618	155.00	858	221.00	3429	352.00	283
85.00	449	156.00	1286	222.00	211	353.00	196
86.00	842	157.00	166	223.00	947	354.00	243
91.00	491	158.00	189	224.00	9405	365.00	1863
92.00	495	160.00	461	225.00	2302	366.00	199
93.00	3412	161.00	701	227.00	3671	372.00	730
98.00	2389	165.00	714	228.00	626	402.00	171
99.00	1714	166.00	327	229.00	713	403.00	230
101.00	1251	167.00	3361	231.00	208	421.00	292
103.00	234	168.00	1917	234.00	192	422.00	173
104.00	723	169.00	237	235.00	179	423.00	2157

Data File: /chem/gcms/md.i/D072611I.b/dfdg26.d

Date : 26-JUL-2011 10:12

Client ID: Tune

Instrument: md.i

Sample Info: DFDG26,,3,,DFTPP,

Operator: 60841

Column phase: Rxi-5 Sil MS

Column diameter: 0,25

Data File: dfdg26.d

Spectrum: Avg. Scans 30-32 (1.96), Background Scan 27

Location of Maximum: 198,00

Number of points: 169

m/z	Y	m/z	Y	m/z	Y	m/z	Y
| 105,00	702	| 172,00	176	| 237,00	239	| 424,00	462
| 107,00	9293	| 173,00	259	| 242,00	379	| 441,00	7177
| 108,00	1529	| 174,00	724	| 243,00	601	| 442,00	48648
| 109,00	232	| 175,00	1154	| 244,00	7374	| 443,00	9806
| 110,00	16400	| 176,00	267	| 245,00	898	| 444,00	843
| 111,00	2355	| 177,00	439	| 246,00	1410	|	|
| 112,00	170	| 178,00	202	| 249,00	249	|	|
| 116,00	504	| 179,00	2859	| 253,00	181	|	|

Data File: /chem/gcms/md.i/D072611I.b/dfdg26.d

Date : 26-JUL-2011 10:12

Client ID: Tune

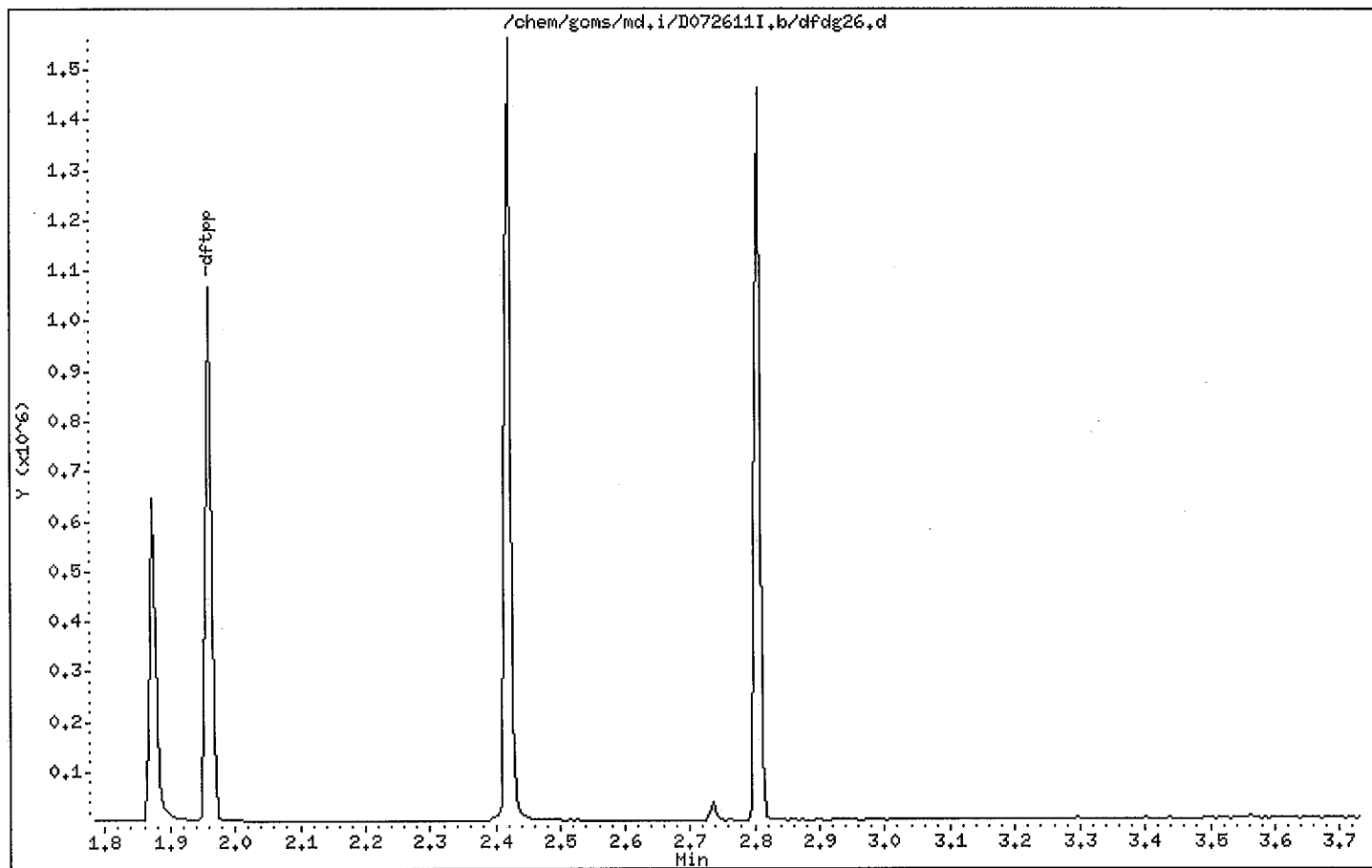
Instrument: md.i

Sample Info: DFDG26,,3,,DFTPP,

Operator: 60841

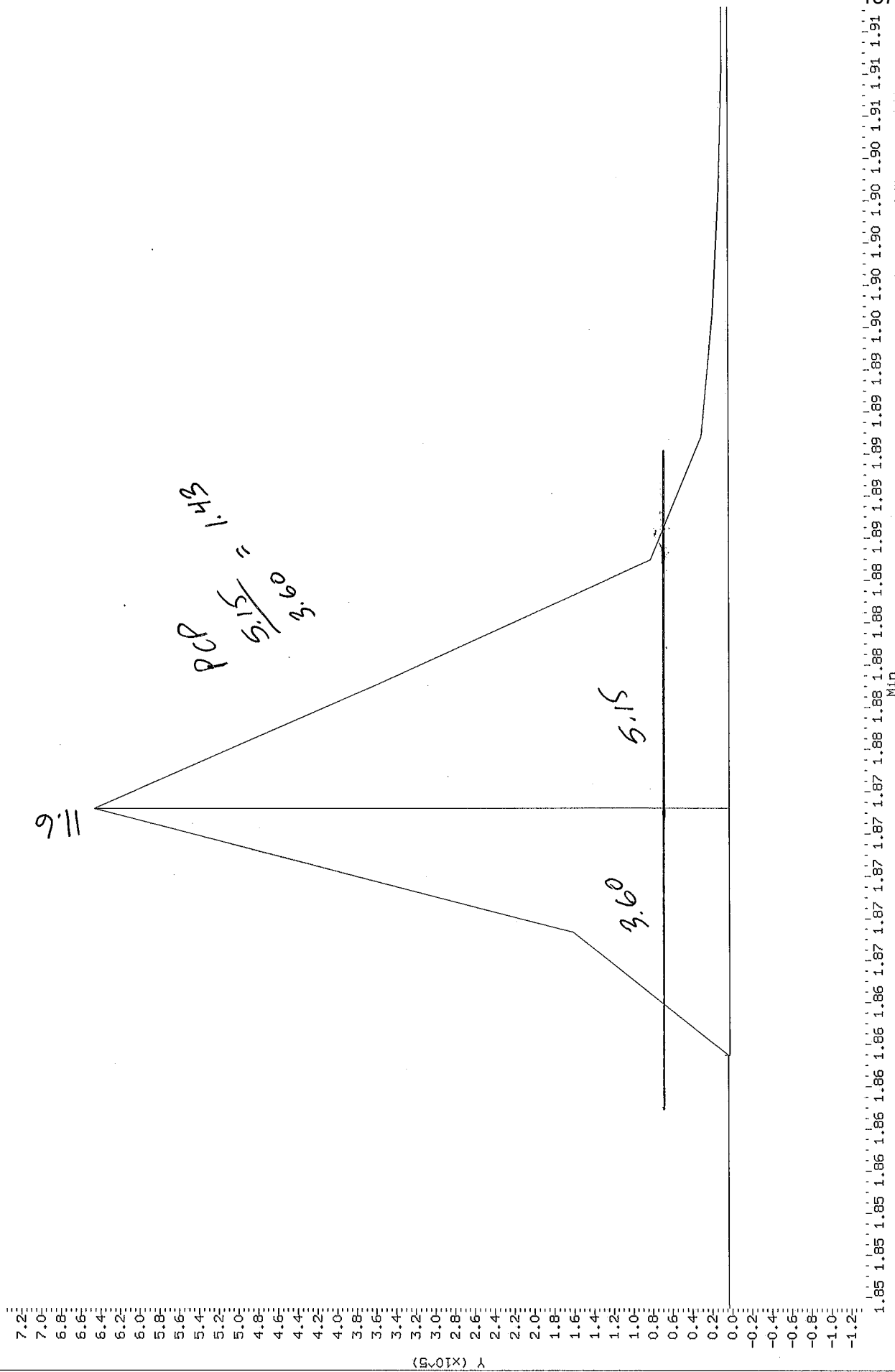
Column phase: Rxi-5 Sil MS

Column diameter: 0.25

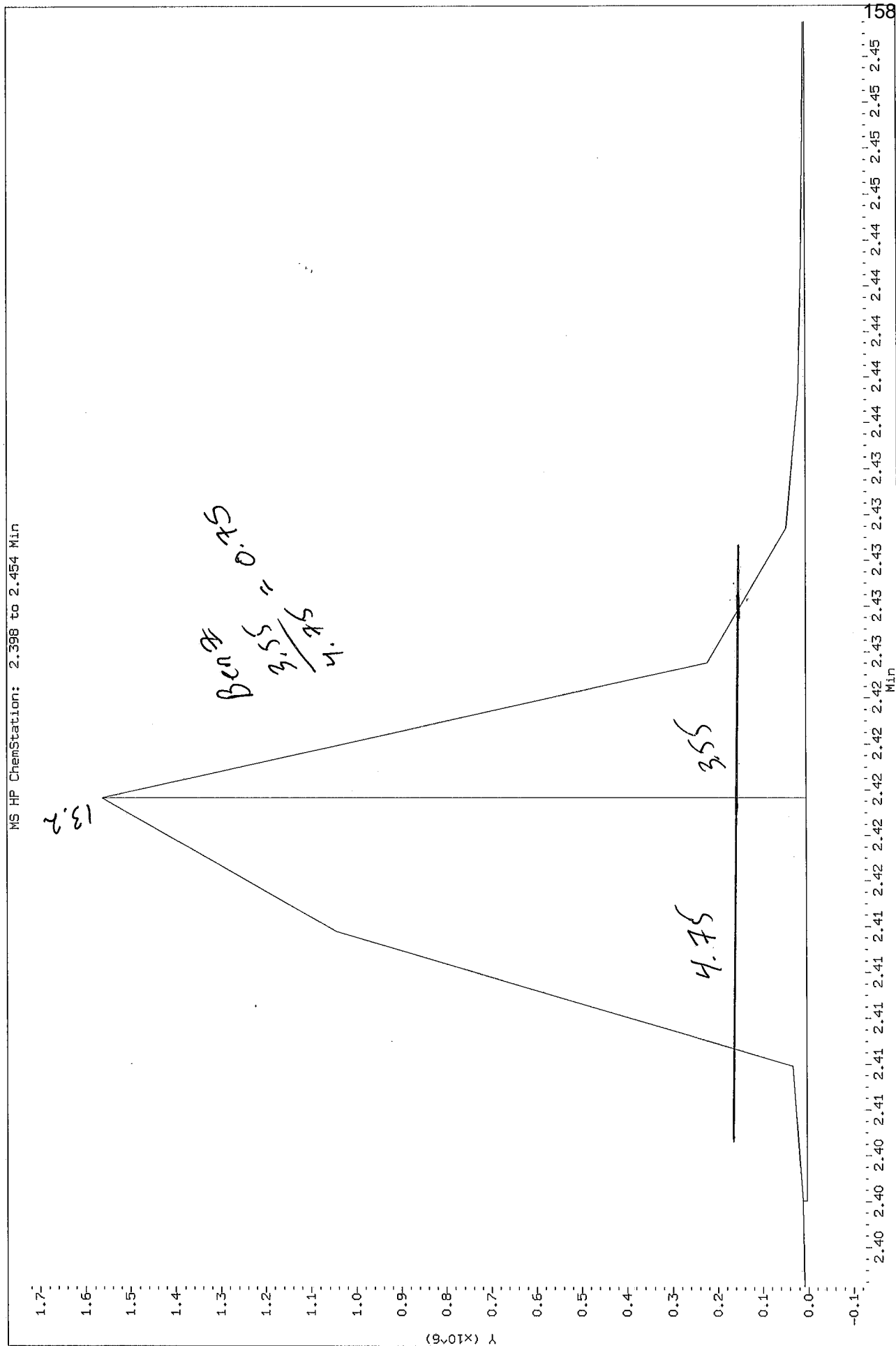


Data File: /var/chem/gcms/md.1/D0726111.b/dfog26.d
Injection Date: 26-JUL-2011 10:12
Instrument: md.i
Client Sample ID: Tune

MS HP ChemStation: 1.850 to 1.911 Min



Data File: /var/chem/gcms/md.i/D0726111.b/dfdg26.d
Injection Date: 26-JUL-2011 10:12
Instrument: md.i
Client Sample ID: Tune



Report Date: 27-Jul-2011 08:40

Calibration History

Method : /var/chem/gcms/md.i/D072611I.b/8270a9.m

Start Cal Date: 25-JUL-2011 12:21

End Cal Date : 26-JUL-2011 17:42 ✓

Initial Calibration

Injection Date	Sublist	Calibration File
Cal Level: 1 , Cal Amount: 10.00000		
26-JUL-2011 16:51	appdx9	/chem/gcms/md.i/D072611I.b/a9dg261.d
26-JUL-2011 12:48	allextra	/var/chem/gcms/md.i/D072611I.b/xpdg261.d
25-JUL-2011 18:14	8270x	/chem/gcms/md.i/D072511I.b/xcdg251.d
25-JUL-2011 14:28	8270dxnC13	/chem/gcms/md.i/D072511I.b/icdg251.d

Cal Level: 2 , Cal Amount: 25.00000		
26-JUL-2011 16:25	appdx9	/chem/gcms/md.i/D072611I.b/a9dg262.d
26-JUL-2011 12:19	allextra	/var/chem/gcms/md.i/D072611I.b/xpdg262.d
25-JUL-2011 17:49	8270x	/chem/gcms/md.i/D072511I.b/xcdg252.d
25-JUL-2011 14:02	8270dxnC13	/var/chem/gcms/md.i/D072511I.b/icdg252.d

Cal Level: 3 , Cal Amount: 40.00000		
26-JUL-2011 16:00	appdx9	/chem/gcms/md.i/D072611I.b/a9dg263.d
26-JUL-2011 11:50	allextra	/var/chem/gcms/md.i/D072611I.b/xpdg263.d
25-JUL-2011 17:24	8270x	/chem/gcms/md.i/D072511I.b/xcdg253.d
25-JUL-2011 13:37	8270dxnC13	/var/chem/gcms/md.i/D072511I.b/icdg253.d

Cal Level: 4 , Cal Amount: 60.00000		
26-JUL-2011 15:34	appdx9	/chem/gcms/md.i/D072611I.b/a9dg264.d
26-JUL-2011 11:21	allextra	/var/chem/gcms/md.i/D072611I.b/xpdg264.d
25-JUL-2011 16:59	8270x	/chem/gcms/md.i/D072511I.b/xcdg254.d
25-JUL-2011 13:11	8270dxnC13	/var/chem/gcms/md.i/D072511I.b/icdg254.d

Cal Level: 5 , Cal Amount: 120.00000		
26-JUL-2011 15:09	appdx9	/var/chem/gcms/md.i/D072611I.b/a9dg265.d
26-JUL-2011 10:52	allextra	/var/chem/gcms/md.i/D072611I.b/xpdg265.d
25-JUL-2011 16:34	8270x	/var/chem/gcms/md.i/D072511I.b/xcdg255.d
25-JUL-2011 12:46	8270dxnC13	/var/chem/gcms/md.i/D072511I.b/icdg255.d

Cal Level: 6 , Cal Amount: 5.00000		
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+=====+
26-JUL-2011 17:17 | appdx9 | /chem/gcms/md.i/D072611I.b/a9dg266.d |
26-JUL-2011 13:16 | alleextra | /var/chem/gcms/md.i/D072611I.b/xpdg266.d |
26-JUL-2011 13:16 | pahextra | /var/chem/gcms/md.i/D072611I.b/xpdg266.d |
25-JUL-2011 18:39 | 8270x | /chem/gcms/md.i/D072511I.b/xcdg256.d |
25-JUL-2011 14:53 | 8270dxnC13 | /chem/gcms/md.i/D072511I.b/icdg256.d |
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+-----+-----+-----+
| Cal Level: 7 , Cal Amount: 2.00000 |
+=====+
| 26-JUL-2011 17:42 | appdx9 | /chem/gcms/md.i/D072611I.b/a9dg267.d |
| 26-JUL-2011 13:45 | alleextra | /var/chem/gcms/md.i/D072611I.b/xpdg267.d |
| 26-JUL-2011 13:45 | pahextra | /chem/gcms/md.i/D072611I.b/xpdg267.d |
| 25-JUL-2011 15:19 | low | /var/chem/gcms/md.i/D072511I.b/icdg257.d |
+-----+-----+-----+

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+-----+-----+-----+
| Cal Level: 8 , Cal Amount: 200.00000 |
+=====+
| 26-JUL-2011 14:43 | appdx9 | /var/chem/gcms/md.i/D072611I.b/a9dg268.d |
| 26-JUL-2011 10:24 | alleextra | /var/chem/gcms/md.i/D072611I.b/xpdg268.d |
| 25-JUL-2011 16:09 | 8270x | /var/chem/gcms/md.i/D072511I.b/xcdg258.d |
| 25-JUL-2011 12:21 | 8270 | /var/chem/gcms/md.i/D072511I.b/icdg258.d |
+-----+-----+-----+

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Continuing Calibration

Ccal Level Mode: GLOBAL LEVEL 4

```

+-----+-----+-----+
| Ccal Level: 4 , Ccal Amount: 60.0 |
+=====+
| 26-JUL-2011 15:34 | appdx9 | /chem/gcms/md.i/D072611I.b/a9dg264.d |
+-----+-----+-----+
| Ccal Level: 4 , Ccal Amount: 60.0 |
+=====+
| 26-JUL-2011 11:21 | alleextra | /var/chem/gcms/md.i/D072611I.b/xpdg264.d |
+-----+-----+-----+

```

Report Date : 27-Jul-2011 13:05

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INITIAL CALIBRATION DATA

Start Cal Date : 25-JUL-2011 12:21
End Cal Date : 26-JUL-2011 17:42
Quant Method : ISTD
Target Version : 3.50
Integrator : HP RTE
Method file : /var/chem/gcms/md.i/D072611I.b/8270a9.m
Cal Date : 27-Jul-2011 12:34 wilesd

Calibration File Names:

Level 1: /chem/gcms/md.i/D072611I.b/a9dg261.d
Level 2: /chem/gcms/md.i/D072611I.b/a9dg262.d
Level 3: /chem/gcms/md.i/D072611I.b/a9dg263.d
Level 4: /chem/gcms/md.i/D072611I.b/a9dg264.d
Level 5: /var/chem/gcms/md.i/D072611I.b/a9dg265.d
Level 6: /chem/gcms/md.i/D072611I.b/a9dg266.d
Level 7: /chem/gcms/md.i/D072611I.b/a9dg267.d
Level 8: /var/chem/gcms/md.i/D072611I.b/a9dg268.d

Compound	10		25		40		60		120		5		Curve		Coefficients		%RSD	
	Level 1	Level 2	Level 1	Level 2	Level 3	Level 4	Level 4	Level 5	Level 5	Level 6	Level 6	Level 6	Level 6	Level 6	b	m1	m2	or R^2
175 1,4-Dioxane	0.43539	0.41837	0.43508	0.42988	0.41893	0.42953	0.42953	0.42953	0.42953	0.42953	0.42953	0.42953	0.42953	0.42953	0.42953	0.42953	0.42953	2.08747
13 N-Nitrosodimethylamine	0.63902	0.55781	0.62631	0.68142	0.61521	0.61521	0.61521	0.61521	0.61521	0.61521	0.61521	0.61521	0.61521	0.61521	0.61521	0.61521	0.61521	6.38393
14 Pyridine	1.09226	0.97046	1.06705	1.18238	1.06924	1.06924	1.06924	1.06924	1.06924	1.06924	1.06924	1.06924	1.06924	1.06924	1.06924	1.06924	1.06924	6.20046

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Start Cal Date : 25-JUL-2011 12:21
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 Quant Method : ISTD
 Target Version : 3.50
 Integrator : HP RTE
 Method file : /var/chem/gcms/md.i/D072611I.b/8270a9.m
 Cal Date : 27-Jul-2011 12:34 wilesd

Compound	10 Level 1	25 Level 2	40 Level 3	60 Level 4	120 Level 5	5 Level 6	Curve	b	Coefficients m1	m2	%RSD or R^2
15 Phenol (ccc)	1.35208	1.20846	1.35584	1.49055	1.33967	1.32174	AVRG		1.36159		6.87115
16 Aniline	1.69633	1.51743	1.68341	1.84290	1.65846	1.60933	AVRG		1.68746		6.57128
17 Bis(2-chloroethyl) ether	1.01243	0.93147	1.00577	1.09713	0.99560	1.04737	AVRG		1.02217		5.27177
18 2-Chlorophenol	1.18846	1.12249	1.23939	1.33545	1.22018	1.17092	AVRG		1.22509		6.01976
19 1,3-Dichlorobenzene	1.41839	1.26410	1.35981	1.49743	1.34907	1.41232	AVRG		1.39019		5.32650
20 1,4-Dichlorobenzene (ccc)	1.45934	1.28628	1.39224	1.52614	1.35933	1.45788	AVRG		1.42020		5.61807
21 Benzyl alcohol	0.76491	0.72684	0.79780	0.88343	0.82559	0.74982	AVRG		0.80411		7.71005

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INITIAL CALIBRATION DATA

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Start Cal Date      : 25-JUL-2011 12:21
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Quant Method       : ISTD
Target Version     : 3.50
Integrator         : HP RTE
Method file        : /var/chem/gcms/md.i/D072611I.b/8270a9.m
Cal Date           : 27-Jul-2011 12:34 wileisd

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Compound	10 Level 1	25 Level 2	40 Level 3	60 Level 4	120 Level 5	5 Level 6	Curve	b	Coefficients m1	m2	%RSD or R^2
EM-BTRF-000783	2 Level 7	200 Level 8									
2 1,2-Dichlorobenzene	1.43721 ++++	1.23348 1.39665	1.32910	1.47309	1.29975	1.39964	AVERG		1.36699		6.11438
3 2-Methylphenol	1.04077 ++++	0.98465 1.16486	1.08923	1.18495	1.06497	1.00190	AVERG		1.07590		7.11289
24 2,2'-Oxybis(1-Chloropropane)	2.03667 ++++	1.81508 1.94916	1.91230	2.08589	1.85465	1.99964	AVERG		1.95048		5.00397
25 4-Methylphenol	1.08491 ++++	1.01058 1.20545	1.11563	1.23280	1.09441	1.02192	AVERG		1.10939		7.60743
26 3&4 Methylphenol	1.08491 ++++	1.01058 1.20545	1.11563	1.23280	1.09441	1.02192	AVERG		1.10939		7.60743
M 204 total cresols (methylphenols)	++++ ++++	++++ ++++	++++	++++	++++	++++	AVERG		0.000e+00	<	0.000e+00
27 N-Nitroso-di-n-propylamine###	0.80109 ++++	0.75534 0.86728	0.81010	0.89669	0.81817	0.76549	AVERG		0.81631		6.25305

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INITIAL CALIBRATION DATA

Start Cal Date : 25-JUL-2011 12:21
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 Quant Method : ISTD
 Target Version : 3.50
 Integrator : HP RTE
 Method file : /var/chem/gcms/md.i/D072611I.b/8270a9.m
 Cal Date : 27-Jul-2011 12:34 wilesd

Compound	10 Level 1	25 Level 2	40 Level 3	60 Level 4	120 Level 5	5 Level 6	Curve	b	Coefficients m1	m2	%RSD or R^2
28 Hexachloroethane	0.53613 ++++	0.48704 0.56064	0.52437	0.56900	0.51567	0.53886	AVRG		0.53310		5.18938
29 Nitrobenzene	0.30953 ++++	0.28669 0.32484	0.30705	0.34300	0.31293	0.30163	AVRG		0.31224		5.70683
30 Isophorone	0.49590 ++++	0.46821 0.54937	0.51520	0.56941	0.52956	0.46676	AVRG		0.51349		7.63377
31 2-Nitrophenol (ccc)	0.14248 ++++	0.14196 0.18003	0.16451	0.18477	0.17326	0.12394	AVRG		0.15871		14.39590
32 2,4-Dimethoxyphenol	0.32672 ++++	0.30653 0.36093	0.33985	0.36758	0.34929	0.29788	AVRG		0.33554		7.90010
33 Bis(2-chloroethoxy)methane	0.33127 ++++	0.31389 0.35258	0.33477	0.36106	0.33463	0.32921	AVRG		0.33677		4.63067
34 Benzoic acid	9056 ++++	28903 359874	56722	94445	180086	++++	QUAD	0.21747	6.55650	-0.66163	0.99861

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INITIAL CALIBRATION DATA

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 Quant Method : ISTD
 Target Version : 3.50
 Integrator : HP RTE
 Method file : /var/chem/gcms/md.i/D072611I.b/8270a9.m
 Cal Date : 27-Jul-2011 12:34 wilesd

Compound	10 Level 1	25 Level 2	40 Level 3	60 Level 4	120 Level 5	5 Level 6	Curve	b	Coefficients ml	m2	%RSD or R^2
5 2,4-Dichlorophenol (ccc)	0.26139 ++++	0.24861 0.29391	0.28046	0.30280	0.28135	0.24053	AVRG		0.27272		8.51309
6 1,2,4-Trichlorobenzene	0.30888 ++++	0.28891 0.32159	0.30663	0.33555	0.31083	0.31990	AVRG		0.31318		4.64946
37 Naphthalene	0.97385 0.97001	0.86520 0.97987	0.93983	1.01657	0.95087	0.97063	AVRG		0.95835		4.57502
38 4-Chloroaniline	0.39068 ++++	0.36692 0.42236	0.39553	0.43711	0.40715	0.36790	AVRG		0.39823		6.59487
39 Hexachlorobutadiene (ccc)	0.19182 ++++	0.18267 0.20207	0.18838	0.21186	0.19398	0.20745	AVRG		0.19689		5.37231
40 4-Chloro-3-methylphenol (ccc)	0.24431 ++++	0.23915 0.29075	0.26759	0.29588	0.27884	0.21513	AVRG		0.26166		11.37949
41 2-Methylnaphthalene	0.65081 0.60796	0.59291 0.68511	0.64049	0.69437	0.65197	0.66221	AVRG		0.64823		5.35880

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Report Date : 27-Jul-2011 13:05

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INITIAL CALIBRATION DATA

Start Cal Date : 25-JUL-2011 12:21
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 Quant Method : ISTD
 Target Version : 3.50
 Integrator : HP RTE
 Method file : /var/chem/gcms/md.i/D072611I.b/8270a9.m
 Cal Date : 27-Jul-2011 12:34 wilesd

Compound	10 Level 1	25 Level 2	40 Level 3	60 Level 4	120 Level 5	5 Level 6	Curve	b	Coefficients ml	m2	%RSD or R^2
42 Hexachlorocyclopentadiene###	0.27469	0.27206	0.30914	0.35829	0.33696	0.25875	AVRG		0.31114		14.21487
43 2,4,6-Trichlorophenol (ccc)	0.28854	0.29546	0.32611	0.35822	0.34619	0.26541	AVRG		0.32021		11.74150
44 2,4,5-Trichlorophenol	0.33211	0.33186	0.36550	0.40415	0.38064	0.30758	AVRG		0.36035		10.36390
45 2-Chloronaphthalene	1.03811	0.96790	1.05849	1.14933	1.06999	1.08247	AVRG		1.06797		5.34534
46 2-Nitroaniline	15482	41828	72041	120210	219117	5445	LINR	0.15297	0.33700		0.99901
47 Acenaphthylene	1.71102	1.55850	1.72013	1.86456	1.73038	1.68741	AVRG		1.70598		6.23009
48 Dimethyl phthalate	1.37976	1.17069	1.27102	1.37956	1.25034	1.49522	AVRG		1.32054		8.05494

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Start Cal Date : 25-JUL-2011 12:21
 End Cal Date : 26-JUL-2011 17:42
 Quant Method : ISTD
 Target Version : 3.50
 Integrator : HP RTE
 Method file : /var/chem/gcms/md.i/D072611I.b/8270a9.m
 Cal Date : 27-Jul-2011 12:34 wilesd

Compound	10 Level 1	25 Level 2	40 Level 3	60 Level 4	120 Level 5	5 Level 6	Curve	b	Coefficients ml	m2	%RSD or R^2
49 2,6-Dinitrotoluene	0.25761 ++++	0.25379 0.30429	0.28476	0.31074	0.29395	0.23528	AVRG		0.27720		10.29336
50 3-Nitroaniline	0.28984 ++++	0.28362 0.34139	0.31843	0.35280	0.33168	++++	AVRG		0.31963		8.74331
51 Acenaphthene (ccc)	1.12104 1.15285	1.02386 1.16446	1.10340	1.19822	1.11787	1.14873	AVRG		1.12880		4.60356
52 2,4-Dinitrophenol ##spcc##	4727 ++++	16981 247756	34091	65034	127762	++++	QUAD	0.40503	5.29150	-0.33451	0.99848
53 Dibenzofuran	1.58321 ++++	1.42357 1.60687	1.55037	1.66858	1.53652	1.64295	AVRG		1.57316		5.15445
54 4-Nitrophenol ##spcc##	0.13632 ++++	0.14644 0.19827	0.16831	0.19631	0.18909	++++	AVRG		0.17245		15.36743
55 2,4-Dinitrotoluene	0.34244 ++++	0.33066 0.40713	0.36731	0.41363	0.39125	0.28706	AVRG		0.36278		12.61294

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INITIAL CALIBRATION DATA

Start Cal Date : 25-JUL-2011 12:21
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 Quant Method : ISTD
 Target Version : 3.50
 Integrator : HP RTE
 Method file : /var/chem/gcms/md.i/D072611I.b/8270a9.m
 Cal Date : 27-Jul-2011 12:34 wilesd

Compound	10 Level 1	25 Level 2	40 Level 3	60 Level 4	120 Level 5	5 Level 6	Curve	b	Coefficients ml	m2	%RSD or R^2
56 Fluorene	1.29136 1.30054	1.16522 1.36748	1.27538	1.41604	1.30763	1.29611	AVRG		1.30247		5.57365
57 4-Chlorophenyl phenyl ether	0.64847 ++++	0.57193 0.64117	0.61231	0.67014	0.62415	0.63893	AVRG		0.62959		4.96994
58 Diethyl phthalate	102902 ++++	210858 1598317	330085	526305	894596	55462	LINR	-0.12290	1.32551		0.99843
59 4-Nitroaniline	0.31526 ++++	0.29054 0.35111	0.32710	0.36796	0.34987	++++	AVRG		0.33364		8.46150
60 4,6-Dinitro-2-methylphenol	8068 ++++	27872 320097	48383	91603	168139	++++	LINR	0.37245	0.14267		0.99780
61 N-Nöpa / diphenylamine (ccc)	0.55201 ++++	0.54562 0.59105	0.56647	0.61761	0.58059	0.57872	AVRG		0.57601		4.23831
62 1,2-Diphenylhydrazine/azobnz	0.58125 ++++	0.56011 0.60219	0.59210	0.64561	0.58805	0.60006	AVRG		0.59563		4.38791

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Start Cal Date : 25-JUL-2011 12:21
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Quant Method : ISTD
Target Version : 3.50
Integrator : HP RTE
Method file : /var/chem/gcms/md.i/D072611I.b/8270a9.m
Cal Date : 27-Jul-2011 12:34 wilesd

Compound	10		25		40		60		120		5		Curve		b		Coefficients		m2		%RSD	
	Level 1	Level 2	Level 1	Level 2	Level 3	Level 4	Level 4	Level 4	Level 5	Level 5	Level 6	Level 6	Level 6	Level 6	Level 6	Level 6	Level 6	Level 6	Level 6	Level 6	Level 6	Level 6
63 4-Bromophenyl phenyl ether	0.18253	0.16806	0.18445	0.20045	0.18750	0.18515	0.18515	0.18515	0.18515	0.18515	0.18515	0.18515	0.18515	0.18515	0.18515	0.18515	0.18515	0.18515	0.18515	0.18515	0.18515	0.18515
64 Hexachlorobenzene	0.19389	0.18395	0.19237	0.21317	0.19532	0.20859	0.20859	0.20859	0.20859	0.20859	0.20859	0.20859	0.20859	0.20859	0.20859	0.20859	0.20859	0.20859	0.20859	0.20859	0.20859	0.20859
65 Pentachlorophenol (ccc)	11281	34447	63402	108418	193359	193359	193359	193359	193359	193359	193359	193359	193359	193359	193359	193359	193359	193359	193359	193359	193359	193359
66 Phenanthrene	1.05786	0.97476	1.03880	1.11882	1.03903	1.14123	1.14123	1.14123	1.03903	1.03903	1.14123	1.14123	1.14123	1.14123	1.14123	1.14123	1.14123	1.14123	1.14123	1.14123	1.14123	1.14123
67 Anthracene	1.01945	0.97145	1.04642	1.14793	1.07710	1.02649	1.02649	1.02649	1.07710	1.07710	1.02649	1.02649	1.02649	1.02649	1.02649	1.02649	1.02649	1.02649	1.02649	1.02649	1.02649	1.02649
68 Carbazole	0.93260	0.87598	0.94773	1.04535	0.95432	0.91124	0.91124	0.91124	0.95432	0.95432	0.91124	0.91124	0.91124	0.91124	0.91124	0.91124	0.91124	0.91124	0.91124	0.91124	0.91124	0.91124
69 Di-n-butyl phthalate	0.92401	0.98103	1.08093	1.20616	1.11747	0.85900	0.85900	0.85900	1.11747	1.11747	0.85900	0.85900	0.85900	0.85900	0.85900	0.85900	0.85900	0.85900	0.85900	0.85900	0.85900	0.85900

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Start Cal Date : 25-JUL-2011 12:21
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 Quant Method : ISTD
 Target Version : 3.50
 Integrator : HP RTE
 Method file : /var/chem/gcms/md.i/D072611I.b/8270a9.m
 Cal Date : 27-Jul-2011 12:34 wilesd

Compound	10 Level 1	25 Level 2	40 Level 3	60 Level 4	120 Level 5	5 Level 6	Curve	b	Coefficients ml	m2	%RSD or R^2
70 Fluoranthene (ccc)	1.07833	1.04363	1.14311	1.25462	1.17278	1.04862	AVRG		1.10421		10.09227
	0.89804	1.19453									
71 Pyrene	1.12418	1.05897	1.12996	1.23135	1.13625	1.16325	AVRG		1.13263		6.35652
	1.01128	1.20581									
72 Butyl benzyl phthalate	48034	129480	227133	388334	718821	16243	LINR	0.16086	0.52629		0.99910
	++++	1262908									
73 Benzo(a)Anthracene	0.97991	0.94766	1.02173	1.10424	1.02344	0.94855	AVRG		0.99170		8.03774
	0.84651	1.06157									
74 3,3'-Dichlorobenzidine	0.28213	0.33176	0.36645	0.42385	0.39568	++++	AVRG		0.36945		14.79836
	++++	0.41682									
75 Chrysene	1.05641	0.97251	1.01129	1.11197	1.02309	1.09930	AVRG		1.05787		5.50521
	1.14801	1.04042									
76 Bis(2-ethylhexyl) phthalate	64113	179215	309158	529074	973995	21700	LINR	0.13316	0.70325		0.99914
	++++	1685389									

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 Quant Method : ISTD
 Target Version : 3.50
 Integrator : HP RTE
 Method file : /var/chem/gcms/md.i/D072611I.b/8270a9.m
 Cal Date : 27-Jul-2011 12:34 wilesd

Compound	10 Level 1	25 Level 2	40 Level 3	60 Level 4	120 Level 5	5 Level 6	Curve	b	Coefficients m1	m2	%RSD or R^2
7 Di-n-octyl phthalate (ccc)	71984 ++++	243024 2878736	454474	837163	1593687	++++	QUAD	0.000e+00	0.89382	-0.00934	0.99790
8 Benzo(b)fluoranthene	0.90931 ++++	0.93173 1.10299	1.01664	1.15118	1.09614	0.81625	AVRG		1.00346		12.17439
79 Benzo(k)fluoranthene	1.25189 ++++	1.12238 1.23608	1.22701	1.29989	1.17475	1.15259	AVRG		1.20923		5.12208
80 Benzo(a)pyrene (ccc)	95297 ++++	262635 2513989	453830	768797	1429137	32669	LINR	0.13710	1.13883		0.99938
85 Benzo(e)pyrene	0.89209 ++++	0.98939 1.12034	1.01669	1.10569	1.11659	0.78940	AVRG		1.00431		12.56234
81 Indeno(1,2,3-cd)pyrene	1.00424 ++++	1.02520 1.22088	1.14175	1.27382	1.17055	0.83745	AVRG		1.09627		13.69017
82 Dibenzo(a,h)anthracene	0.84729 ++++	0.85090 0.99854	0.92926	1.03351	0.90895	0.70945	AVRG		0.89684		12.03500

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 Target Version : 3.50
 Integrator : HP RTE
 Method file : /var/chem/gcms/md.i/D072611I.b/8270a9.m
 Cal Date : 27-Jul-2011 12:34 wileds

Compound	10 Level 1	25 Level 2	40 Level 3	60 Level 4	120 Level 5	5 Level 6	Curve	b	Coefficients ml	m2	%RSD or R^2
EM-B RF-000792	2	200									
73 Benzo(g,h,i)perylene	0.94743 ++++	0.90654 1.03905	0.97798	1.08412	0.98987	0.82522	AVRG		0.96717		8.82301
16 2-Picoline	1.11879 ++++	1.09789 1.18573	1.10800	1.19012	1.18851	1.24339	AVRG		1.16178		4.65831
86 N-nitrosomethylethylamine	0.84826 ++++	0.82108 0.88531	0.80877	0.91146	0.89310	0.87558	AVRG		0.86337		4.44203
181 Furfural	++++	++++	++++	++++	++++	++++	AVRG		0.000e+00		0.000e+00
87 Methyl methanosulfonate	0.69793 ++++	0.70709 0.73702	0.67227	0.73507	0.74015	0.72131	AVRG		0.71583		3.48543
88 N-nitrosodiethylamine	0.52831 ++++	0.52098 0.57837	0.52996	0.58298	0.58927	0.53025	AVRG		0.55145		5.50239
89 Ethyl methanosulfonate	0.83236 ++++	0.80957 0.87229	0.80856	0.88850	0.89409	0.88445	AVRG		0.85569		4.41057

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 Cal Date : 27-Jul-2011 12:34 wilesd

Compound	10 Level 1	25 Level 2	40 Level 3	60 Level 4	120 Level 5	5 Level 6	Curve	b	Coefficients m1	m2	%RSD or R^2
90 Pentachloroethane	0.48979 ++++	0.51462 0.51847	0.49193	0.53137	0.52429	0.52955	AVRG		0.51429		3.31387
91 acetophenone	1.64012 ++++	1.66268 1.75307	1.60625	1.76846	1.77077	1.72851	AVRG		1.70427		3.93360
92 m-cresol	1.07495 ++++	1.08584 1.24440	1.09742	1.20839	1.24210	0.98007	AVRG		1.13331		8.84172
93 n-nitrosopyrrolidine	0.55639 ++++	0.58347 0.65473	0.58568	0.65727	0.66036	0.51242	AVRG		0.60147		9.58772
94 n-nitrosomorpholine	0.96855 ++++	0.91339 0.97598	0.89746	0.98691	0.98501	0.94697	AVRG		0.95347		3.74079
95 o-toluidine	1.85367 ++++	1.83091 1.76446	1.74036	1.84680	1.96840	1.87558	AVRG		1.84002		4.07324
96 n-nitrosopiperidine	0.26725 ++++	0.28919 0.29156	0.27834	0.29914	0.29193	0.26269	AVRG		0.28001		5.10080

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Compound	10 Level 1	25 Level 2	40 Level 3	60 Level 4	120 Level 5	5 Level 6	Curve	b	Coefficients m1	m2	%RSD or R^2
97 2,6-dichlorophenol	0.23250 ++++	0.26015 0.29036	0.27036	0.28968	0.29598	0.22043	AVRG		0.26564		11.19292
98 hexachloropropene	0.18380 ++++	0.20158 0.22263	0.20677	0.22306	0.22173	++++	AVRG		0.20993		7.48714
99 N-nitro-di-n-butylamine	0.17386 ++++	0.17671 0.19960	0.18573	0.20117	0.20361	0.15064	AVRG		0.18447		10.36371
100 Isosafrole	0.23086 ++++	0.24454 0.26166	0.24453	0.25741	0.25924	0.21778	AVRG		0.24515		6.60998
101 1,2,4,5-tetrachlorobenzene	0.33037 ++++	0.32186 0.33162	0.31702	0.34215	0.33206	0.34215	AVRG		0.33103		2.83784
102 safrole	0.38675 ++++	0.39276 0.44204	0.39645	0.43857	0.44255	0.31587	AVRG		0.40214		11.28265
103 1-chloronaphthalene	1.05671 ++++	1.05216 1.06824	1.00148	1.09381	1.02629	1.09672	AVRG		1.05649		3.25757

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Compound	10 Level 1	25 Level 2	40 Level 3	60 Level 4	120 Level 5	5 Level 6	Curve	b	Coefficients ml	m2	%RSD or R^2
104 m-dinitrobenzene	4574 ++++	16021 164156	30691	50246	113041	++++	LINR	0.30536	0.18022		0.99886
105 pentachlorobenzene	0.49384 ++++	0.49149 0.49676	0.47363	0.50068	0.49428	0.49699	AVRG		0.49253		1.79132
106 1-naphthylamine	1.03172 ++++	1.10264 1.12249	1.12813	1.12811	1.20402	0.94313	AVRG		1.09432		7.64168
182 2-Chlorobenzalmononitrile	++++ ++++	++++ ++++	++++	++++	++++	++++	AVRG		0.000e+00		0.000e+00
107 2-naphthylamine	1.17234 ++++	1.19446 0.97654	1.12106	1.10556	1.20643	1.04335	AVRG		1.11711		7.52171
108 2,3,4,6-tetrachlorophenol	8301 ++++	29231 297593	55231	83863	193044	++++	LINR	0.36656	0.32356		0.99958
109 5-nitro-o-toluidine	0.24241 ++++	0.31623 0.37331	0.32645	0.35527	0.38360	++++	AVRG		0.33288		15.44211

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Compound	10 Level 1	25 Level 2	40 Level 3	60 Level 4	120 Level 5	5 Level 6	Curve	b	Coefficients ml	m2	%RSD or R^2
110 diphenylamine	0.55004 ++++	0.56783 0.62929	0.56560	0.62821	0.61480	0.55309	AVRG		0.58698		6.06378
111 1,3,5-trinitrobenzene	11560 ++++	44389 540041	91896	149470	358646	++++	LINR	0.48137	0.30622		0.99911
112 phenacetin	21494 ++++	70266 626612	123029	191497	417279	++++	LINR	0.24952	0.34639		0.99973
113 4-aminobiphenyl	0.66995 ++++	0.73103 0.79843	0.73727	0.78201	0.72955	0.60468	AVRG		0.72184		9.16962
114 pentachloronitrobenzene	0.07440 ++++	0.08057 0.08768	0.07838	0.08857	0.08751	++++	AVRG		0.08285		7.12543
115 Dinoseb	4899 ++++	19963 263707	42189	69480	173429	++++	QUAD	0.51371	6.93000	-0.19601	0.99879
178 N-Nitroquinoline-n-oxide	++++ ++++	++++ ++++	++++	++++	++++	0.02531	AVRG		0.02531		0.000e+00

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Compound	10 Level 1	25 Level 2	40 Level 3	60 Level 4	120 Level 5	5 Level 6	Curve	b	Coefficients m1	m2	%RSD or R^2
117 Methapyrilene HCL	++++ Level 7	++++ Level 8	++++	++++	++++	0.18611	AVRG		0.18611		0.000e+00
114 Benzidine	++++	0.64208	0.67578	0.70479	0.78620	++++	AVRG		0.70029		7.63962
116 p- (dimethylamino) azobenzene	0.22990	0.28869	0.29849	0.33111	0.33370	++++	AVRG		0.30408		13.84467
118 2-acetylaminofluorene	21105 ++++	89339 1004618	173445	275193	647590	++++	LINR	0.40642	0.52332		0.99943
117 o-tolidine	++++	0.58782	0.63508	0.67149	0.78445	++++	AVRG		0.67608		10.94068
119 7,12-dimethylbenz(a)anthracen	35187 ++++	110374 1049627	197177	303799	669726	++++	LINR	0.25771	0.53615		0.99978
120 3-methylcholanthrene	30831 ++++	100928 1104775	189476	306092	691483	++++	LINR	0.33332	0.64849		0.99956

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Compound	10 Level 1	25 Level 2	40 Level 3	60 Level 4	120 Level 5	5 Level 6	Curve	b	Coefficients m1	m2	%RSD or R^2
183 2-chloroacetophenone	++++ ++++	++++ ++++	++++ ++++	++++ ++++	++++ ++++	++++ ++++	AVRG		0.000e+00		0.000e+00
184 Benzaldehyde	0.97253 ++++	0.90520 0.92464	0.92350	0.97480	0.92812	0.99159	AVRG		0.94577		3.49553
185 Benzonitrile	++++ ++++	++++ ++++	++++ ++++	++++ ++++	++++ ++++	++++ ++++	AVRG		0.000e+00		0.000e+00
187 Atrazine	13935 ++++	46040 452729	78411	135138	260362	5965	LINR	0.10539	0.20283		0.99971
188 1,1'-Biphenyl	1.65013 ++++	1.54182 1.52584	1.54714	1.58558	1.51355	1.72932	AVRG		1.58477		4.95347
189 Caprolactam	9107 ++++	31827 344255	54789	98982	194813	3639	LINR	0.24602	0.18829		0.99935
M 186 PAH, Summed Target List	++++ ++++	++++ ++++	++++ ++++	++++ ++++	++++ ++++	++++ ++++	AVRG		0.000e+00		0.000e+00

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Compound	10 Level 1	25 Level 2	40 Level 3	60 Level 4	120 Level 5	5 Level 6	Curve	b	Coefficients ml	m2	%RSD or R^2
190 Tributylphosphate	++++ ++++	++++ ++++	++++ ++++	++++ ++++	++++ ++++	++++ ++++	AVRG AVRG		0.000e+00 0.000e+00		0.000e+00 0.000e+00
191 Lindane	++++ ++++	++++ ++++	++++ ++++	++++ ++++	++++ ++++	++++ ++++	AVRG AVRG		0.000e+00 0.000e+00		0.000e+00 0.000e+00
192 2,6-Dimethylnaphthalene	0.89698 0.74035	0.98847 1.05262	1.00368 1.00368	1.03599 1.03599	1.09087 1.09087	0.89373 0.89373	AVRG AVRG		0.96284 0.96284		11.82520 11.82520
193 2,3,5-Trimethylnaphthalene	0.41832 0.34066	0.45571 0.50025	0.46218 0.46218	0.49514 0.49514	0.51382 0.51382	0.41883 0.41883	AVRG AVRG		0.45061 0.45061		12.64980 12.64980
194 Dibenzothiophene	0.82866 0.73230	0.86491 0.91225	0.87219 0.87219	0.91807 0.91807	0.92711 0.92711	0.85768 0.85768	AVRG AVRG		0.86415 0.86415		7.31058 7.31058
195 1-Methylphenanthrene	0.63174 0.48768	0.67341 0.73753	0.69443 0.69443	0.73384 0.73384	0.75929 0.75929	0.61479 0.61479	AVRG AVRG		0.66659 0.66659		13.28266 13.28266
196 Perylene	0.97605 0.84243	1.01021 1.09448	1.02518 1.02518	1.09390 1.09390	1.10520 1.10520	0.93922 0.93922	AVRG AVRG		1.01083 1.01083		8.98207 8.98207

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Compound	10 Level 1	25 Level 2	40 Level 3	60 Level 4	120 Level 5	5 Level 6	Curve	b	ml	m2	%RSD or R^2
200 3,3'-Dimethoxybenzidine	6756 ++++	31828 665596	72723	138099	367482	++++	QUAD	0.61222	3.52767	-0.18665	0.99819
201 Dibenzo(a,e)pyrene	37049 ++++	123784 1689543	263967	434937	995427	9754	WLNLR	0.21016	0.86635		0.99448
202 1,4-Phenylenediamine	23562 ++++	69603 787955	130636	210453	460273	++++	LNLR	0.31117	0.45947		0.99973
\$ 7 2-Fluorophenol	1.06988 ++++	0.98730 1.21736	1.11994	1.21589	1.10180	1.01703	AVRG		1.10417		8.09840
\$ 8 Phenol-d5	1.29389 ++++	1.18326 1.42697	1.33759	1.46459	1.32159	1.23958	AVRG		1.32392		7.45195

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Compound	10 Level 1	25 Level 2	40 Level 3	60 Level 4	120 Level 5	5 Level 6	Curve	b	Coefficients ml	m2	%RSD or R^2
=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
2	Level 7	Level 8									
=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
\$ 9 Nitrobenzene-d5	0.31228 ++++	0.28890 0.34071	0.32251	0.34853	0.32814	0.28990	AVRG		0.31871		7.28767
=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
\$ 10 2-Fluorobiphenyl	1.23665 ++++	1.14054 1.29403	1.21783	1.32209	1.23356	1.31311	AVRG		1.25112		5.11528
=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
\$ 11 2,4,6-Tribromophenol	0.06759 ++++	0.07466 0.08918	0.08246	0.09125	0.08496	0.07041	AVRG		0.08007		11.58104
=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
\$ 12 Terphenyl-d14	0.74263 ++++	0.70344 0.79796	0.74852	0.82475	0.75575	0.74566	AVRG		0.75982		5.23401
=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
\$ 179 13C6-naphthalene	1.12903 ++++	1.07092 ++++	1.09342	1.10067	1.05693	1.07016	AVRG		1.08685		2.41366
=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
\$ 173 Pyridine-d5	++++ ++++	++++ ++++	++++	++++	++++	++++	AVRG		0.000e+00		0.000e+00 <-
=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
\$ 180 Pentachlorophenol C13	++++ ++++	++++ ++++	++++	++++	++++	++++	AVRG		0.000e+00		0.000e+00 <-
=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====

EM-BTRF-000801

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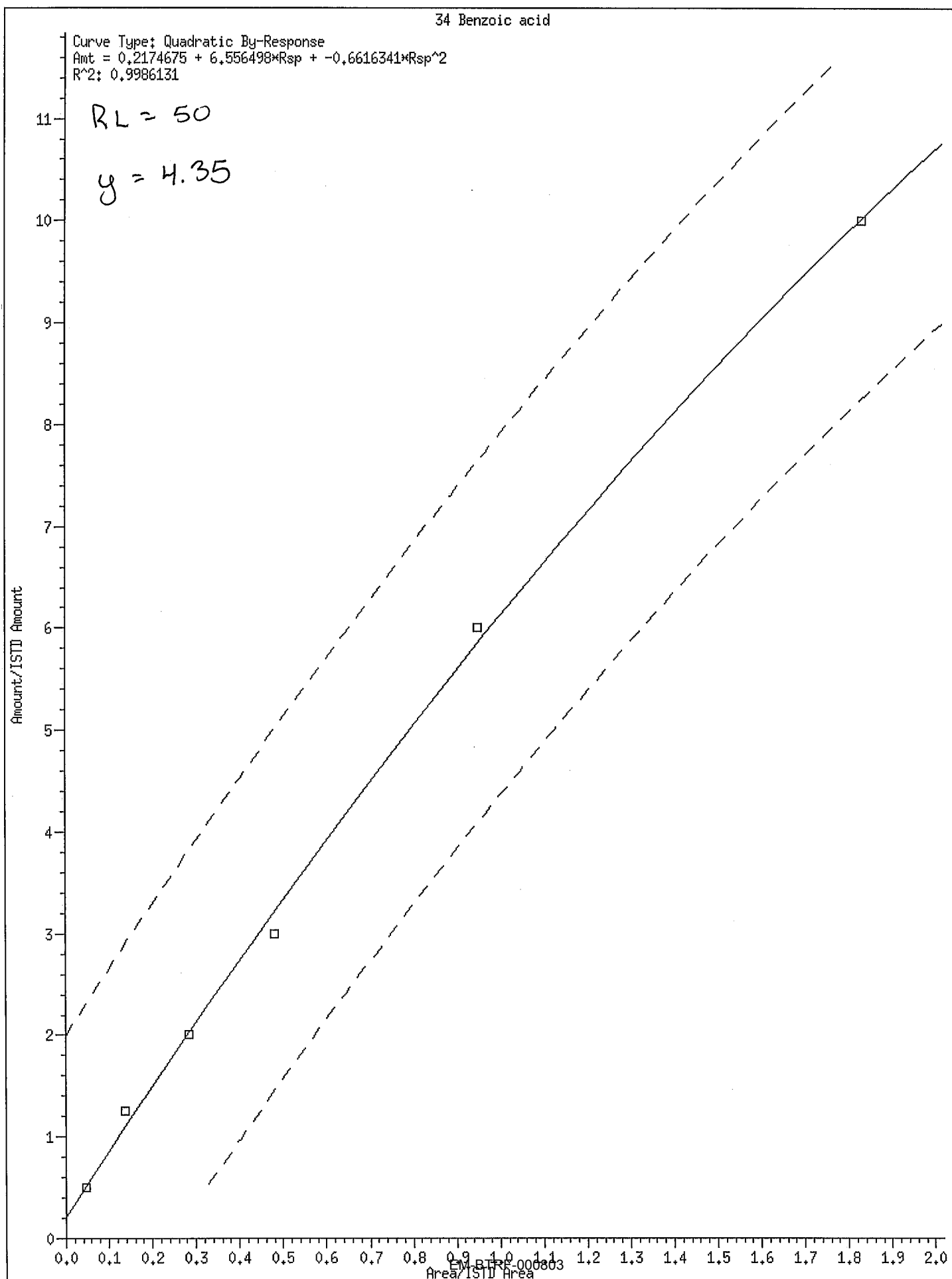
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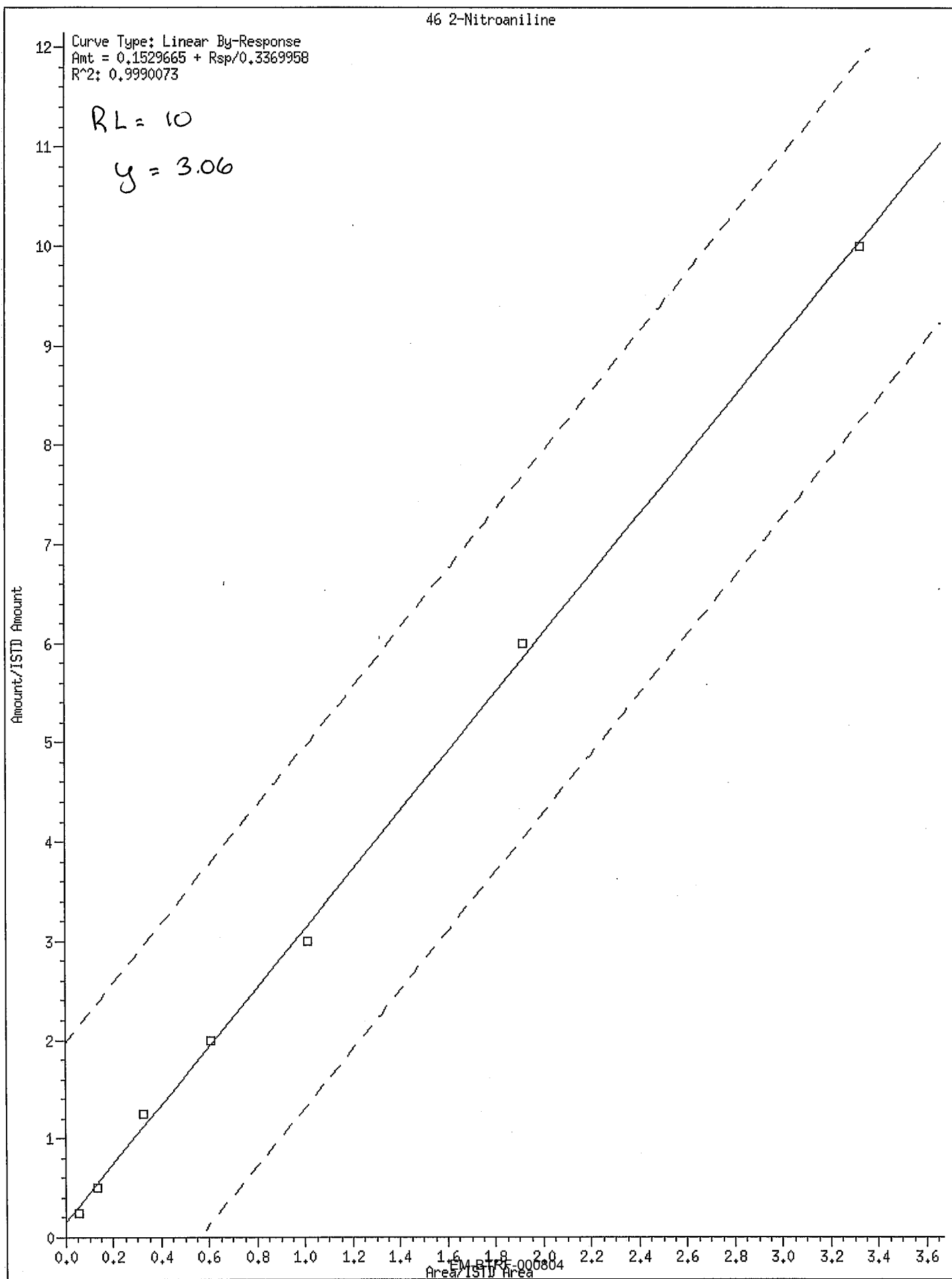
INITIAL CALIBRATION DATA

Start Cal Date : 25-JUL-2011 12:21
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Quant Method : ISTD
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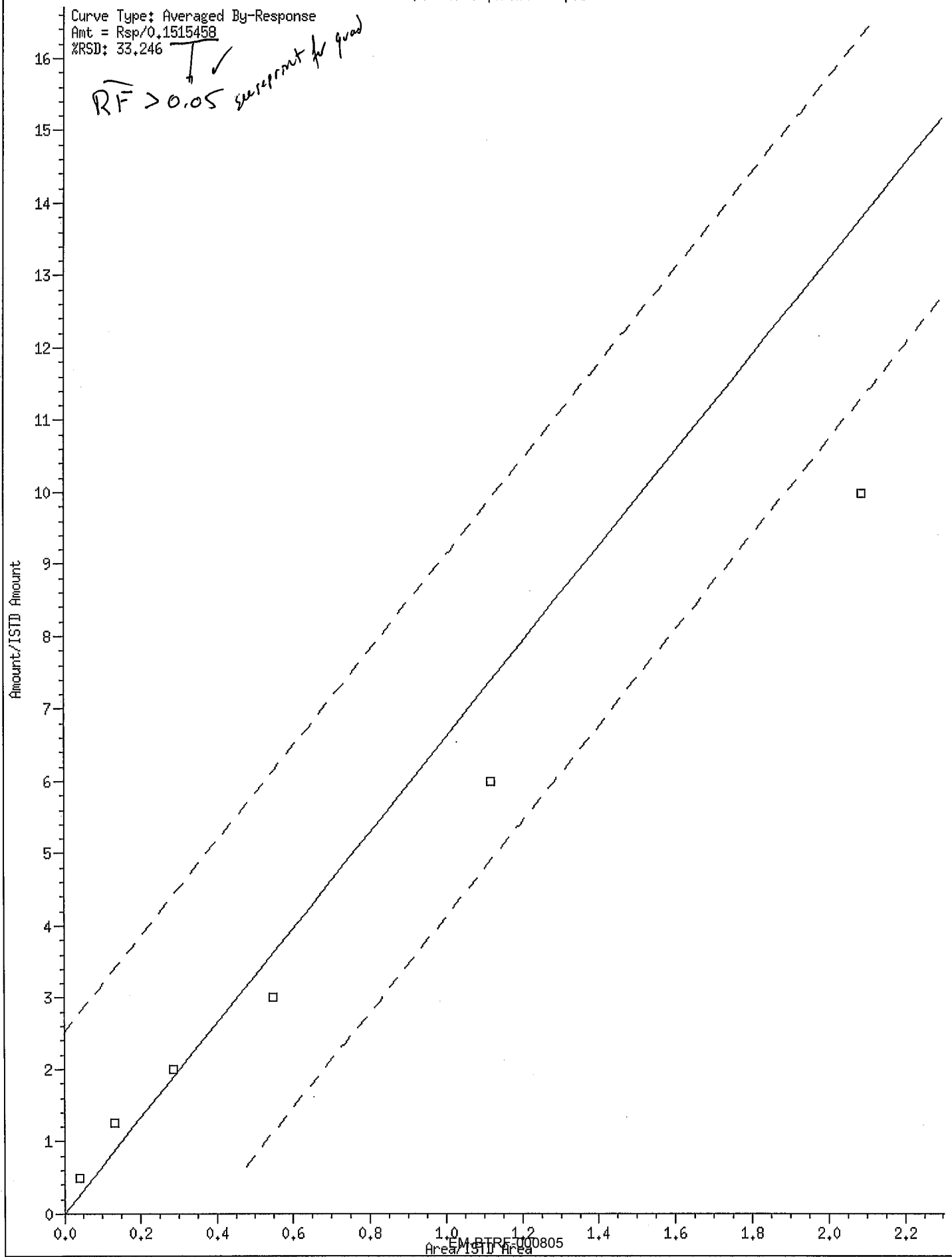
Curve	Formula	Units
Averaged	Ant = Rsp/ml	Response
Linear	Ant = b + Rsp/ml	Response
Wt Linear	Ant = b + Rsp/ml	Response
Quadr	Ant = b + ml*Rsp + m2*Rsp^2	Response

000802





52 2,4-Dinitrophenol ##spcc##



52 2,4-Dinitrophenol ##spcc##

Curve Type: Quadratic By-Response

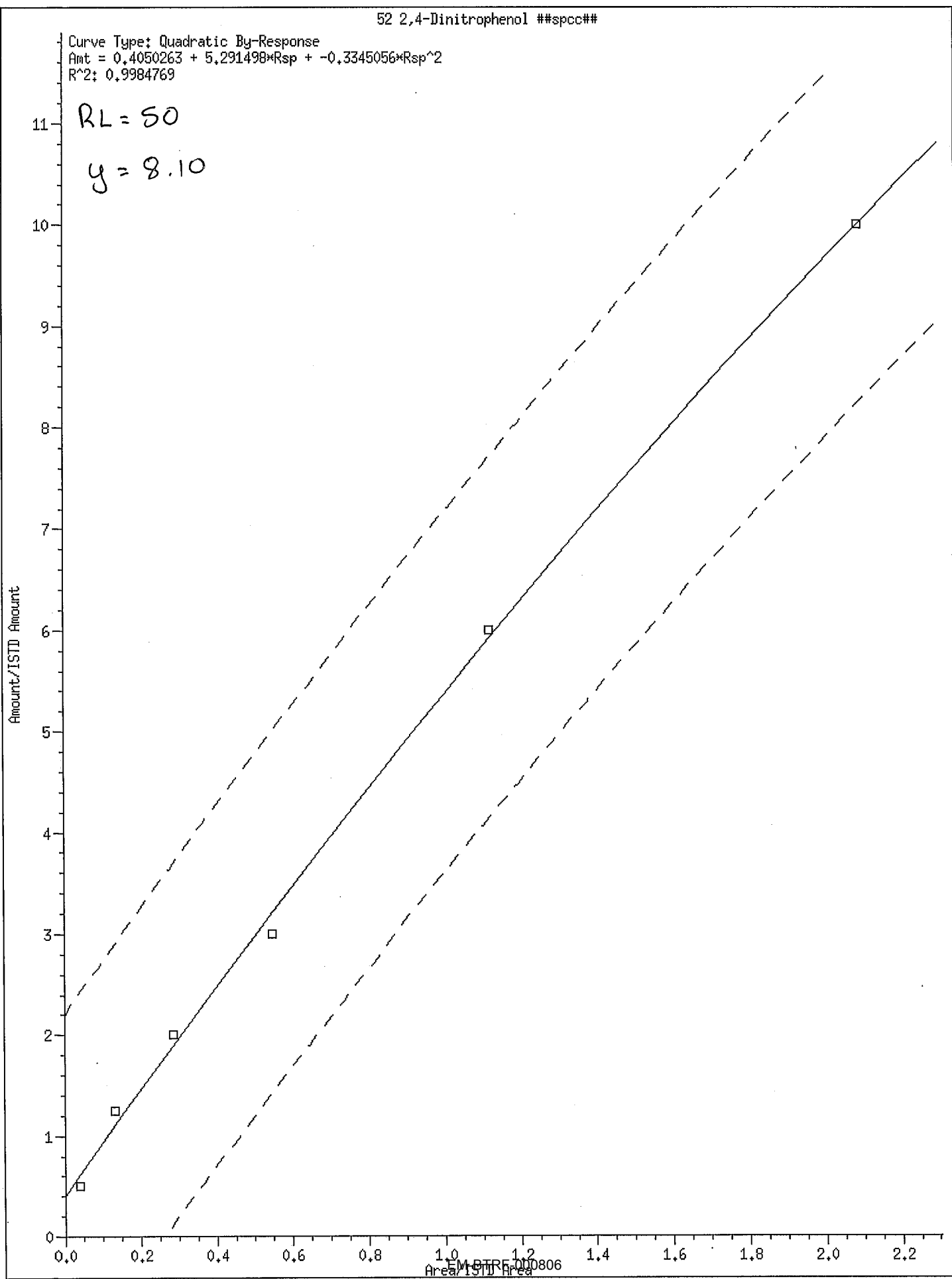
Amt = 0.4050263 + 5.291498*Rsp + -0.3345056*Rsp^2

R^2: 0.9984769

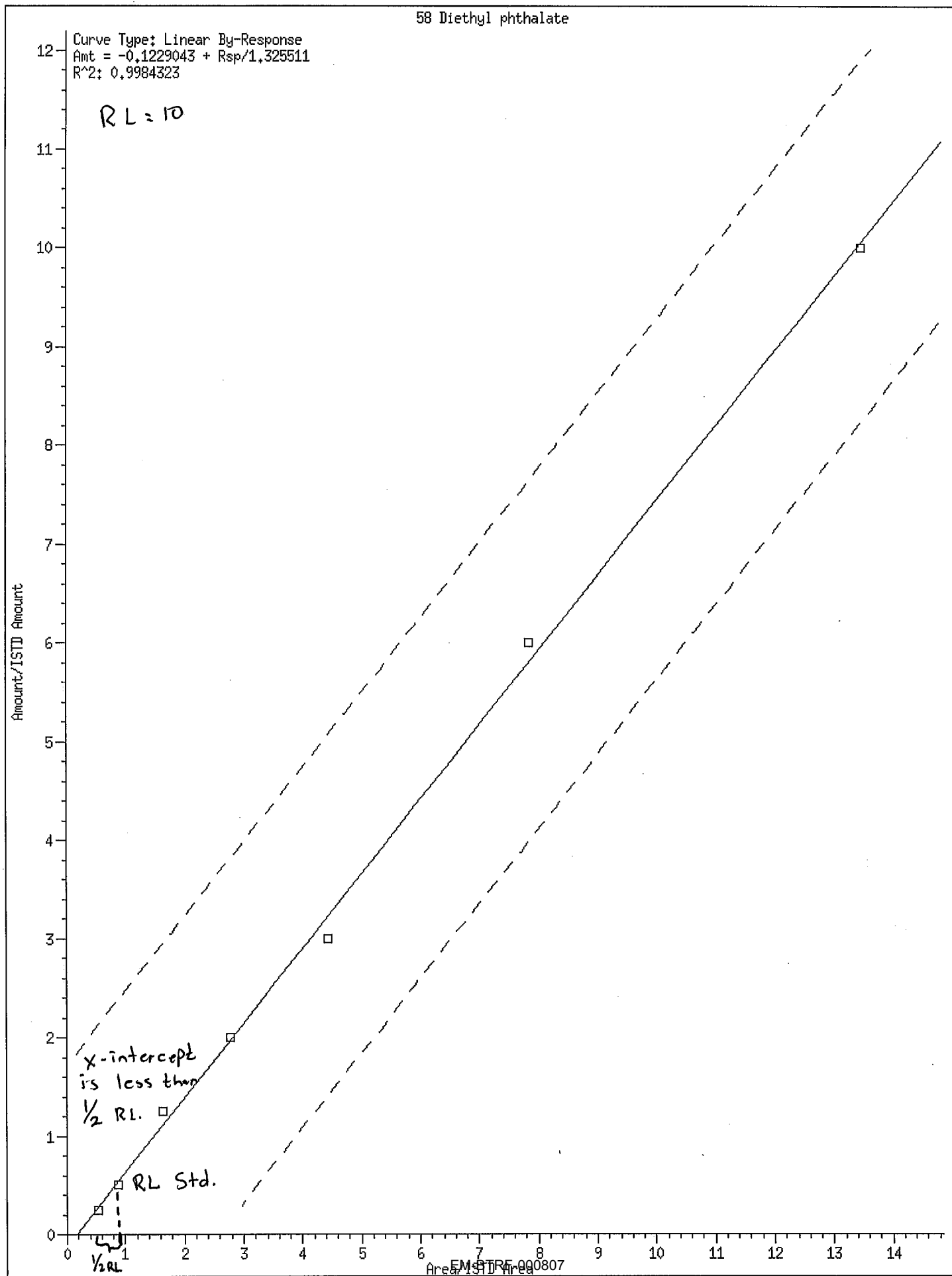
RL = 50

y = 8.10

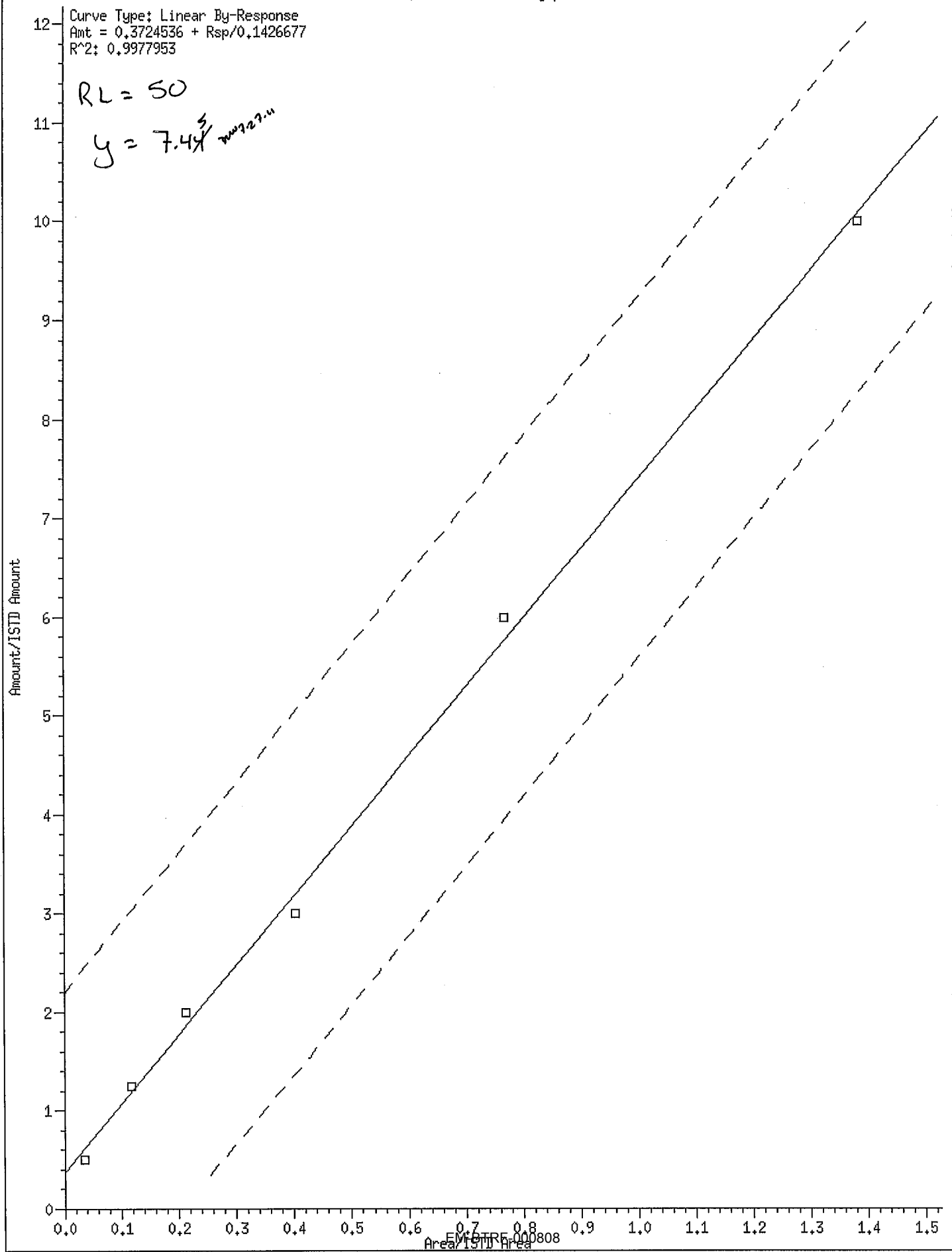
Amount/ISTD Amount



EM-OTR5-000806



60 4,6-Dinitro-2-methylphenol



65 Pentachlorophenol (ccc)

Curve Type: Averaged By-Response

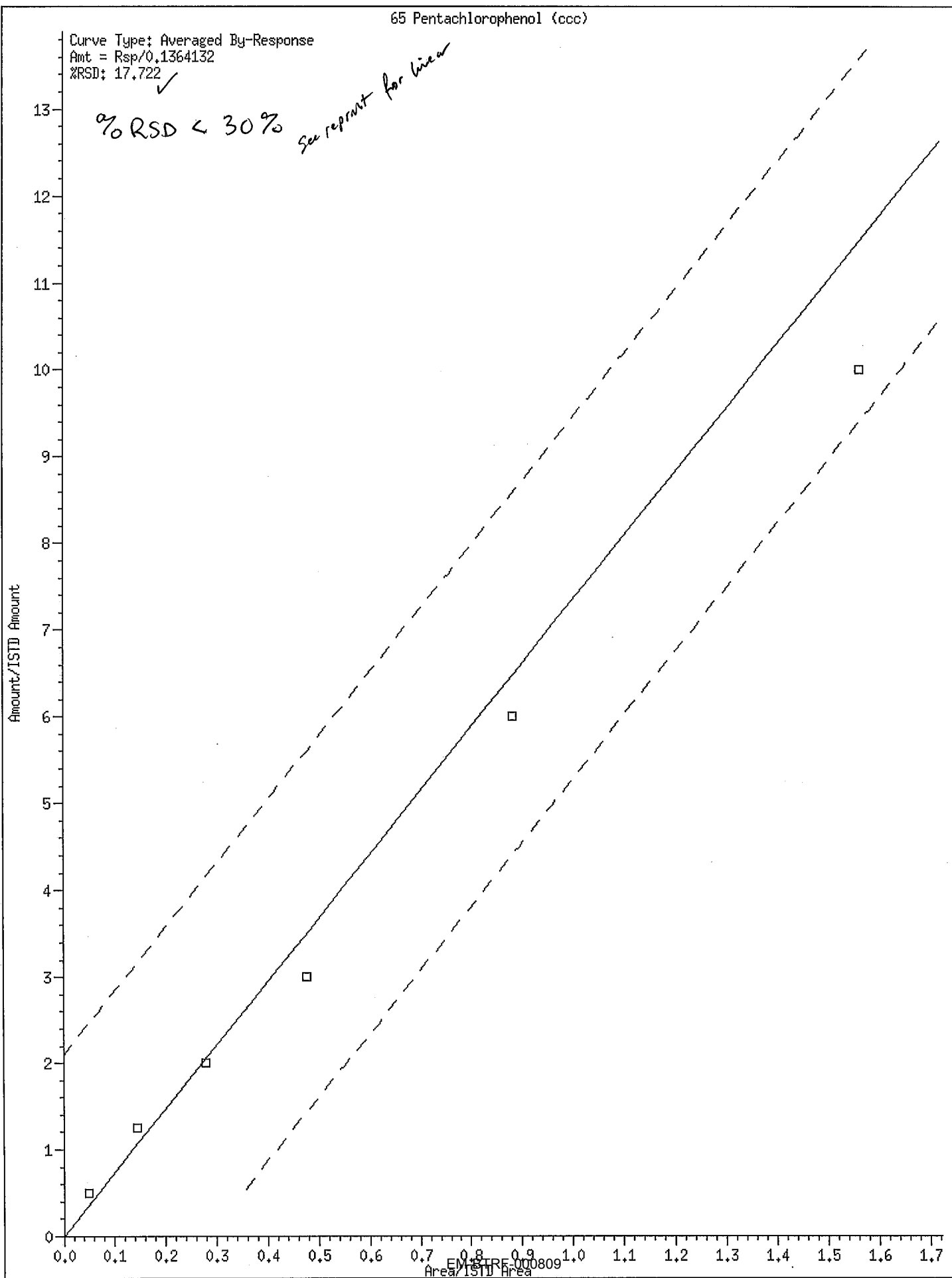
Amt = Rsp/0.1364132

%RSD: 17.722 ✓

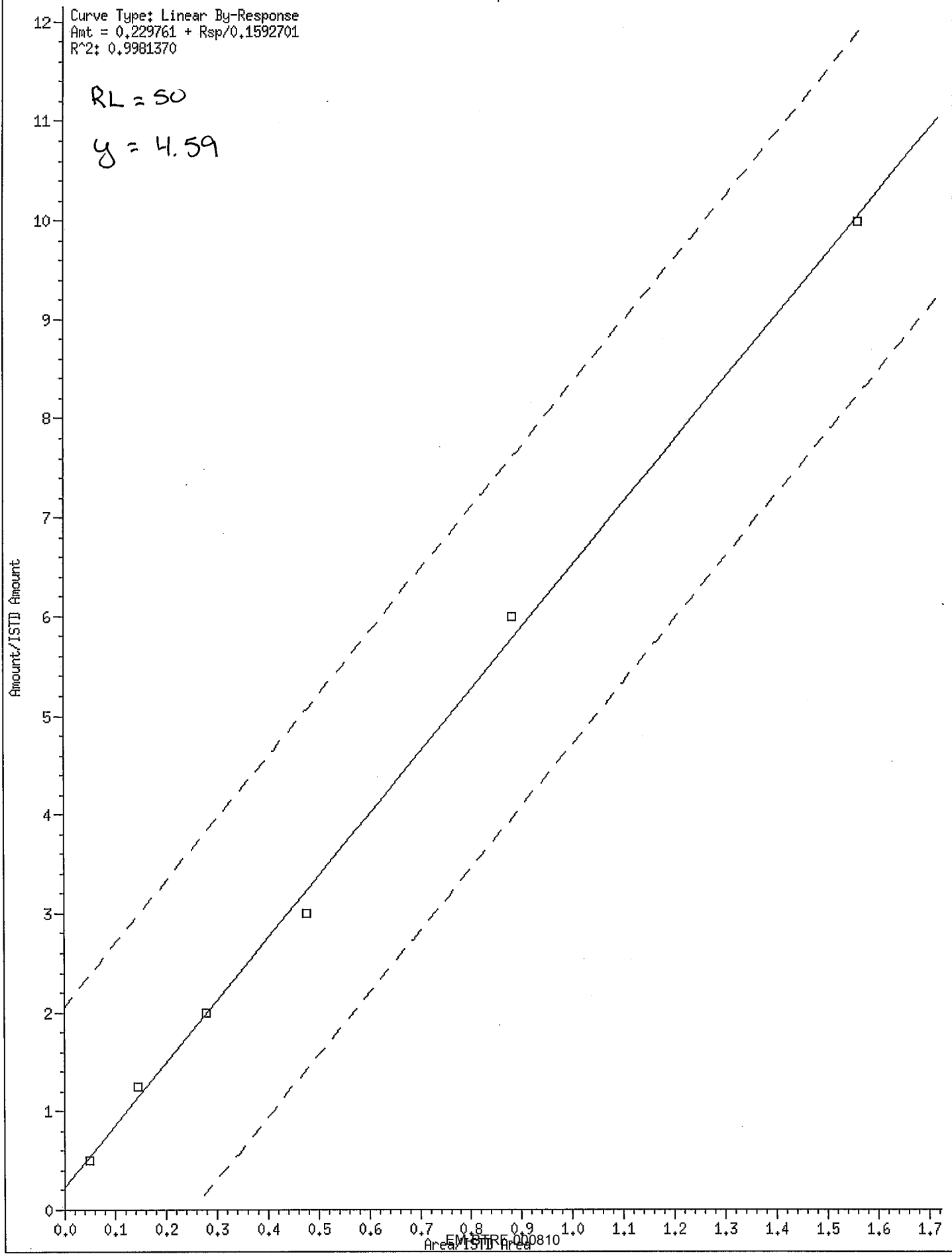
%RSD < 30%

see report for linear

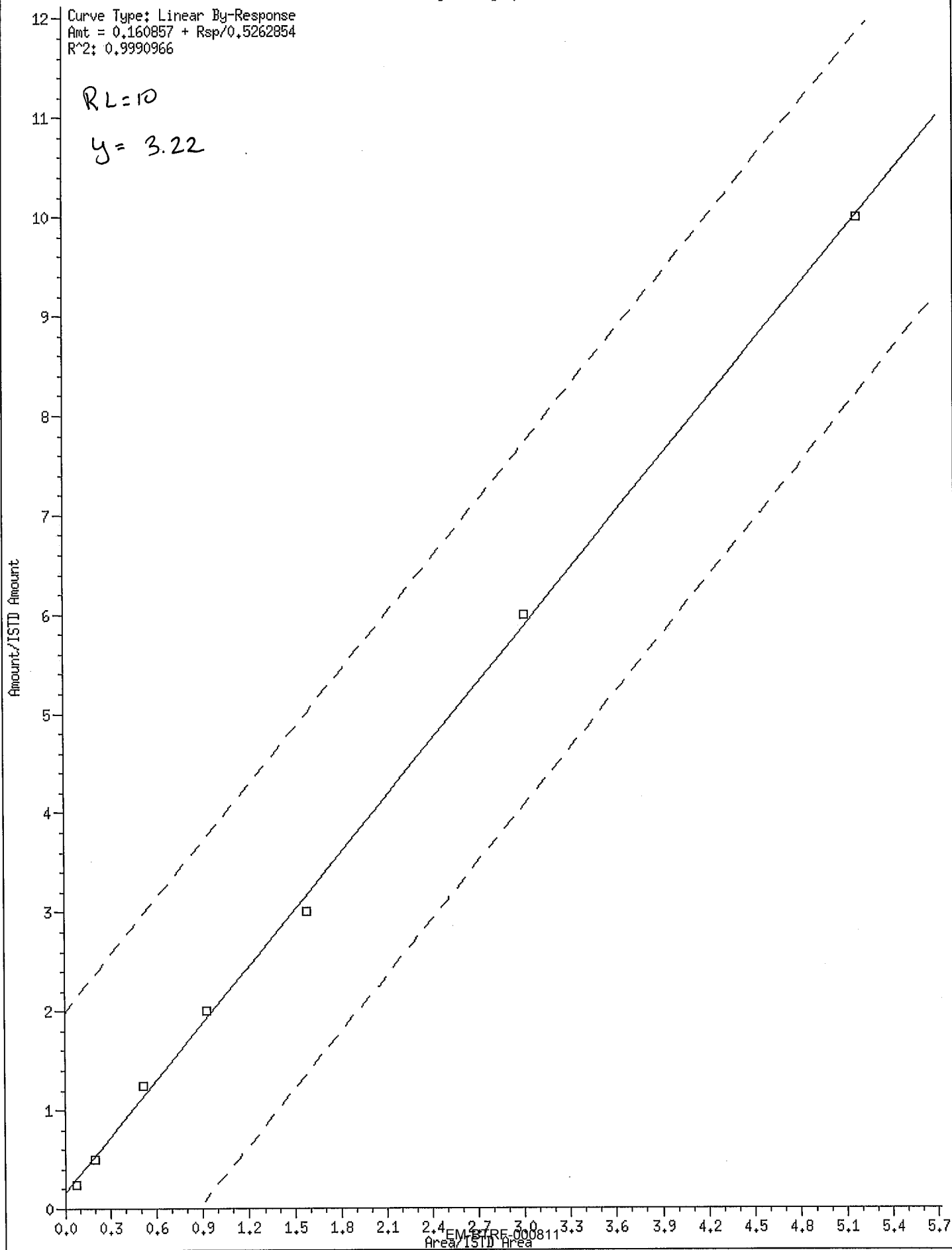
Amount/ISTD Amount



65 Pentachlorophenol (ccc)



72 Butyl benzyl phthalate



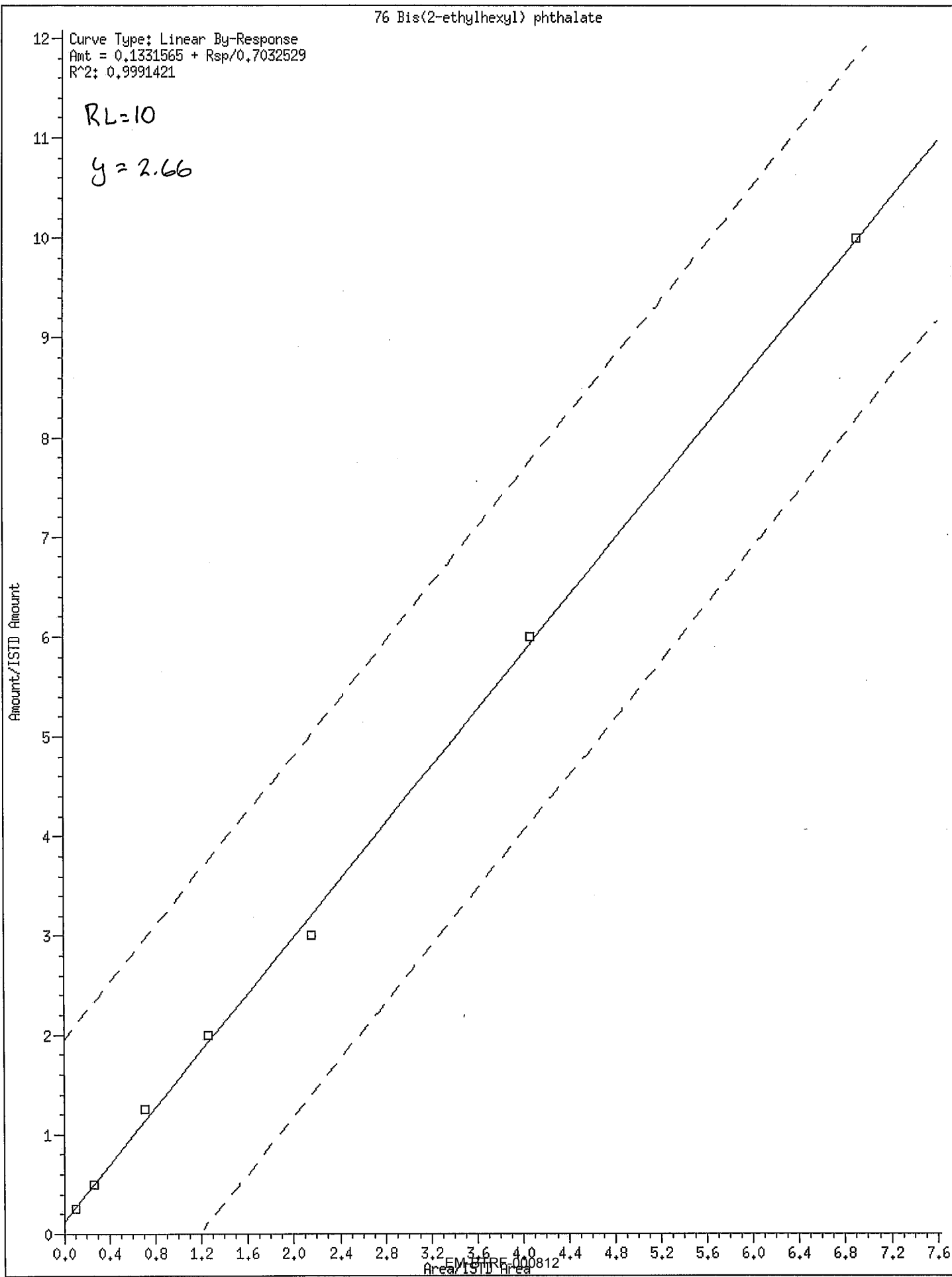
76 Bis(2-ethylhexyl) phthalate

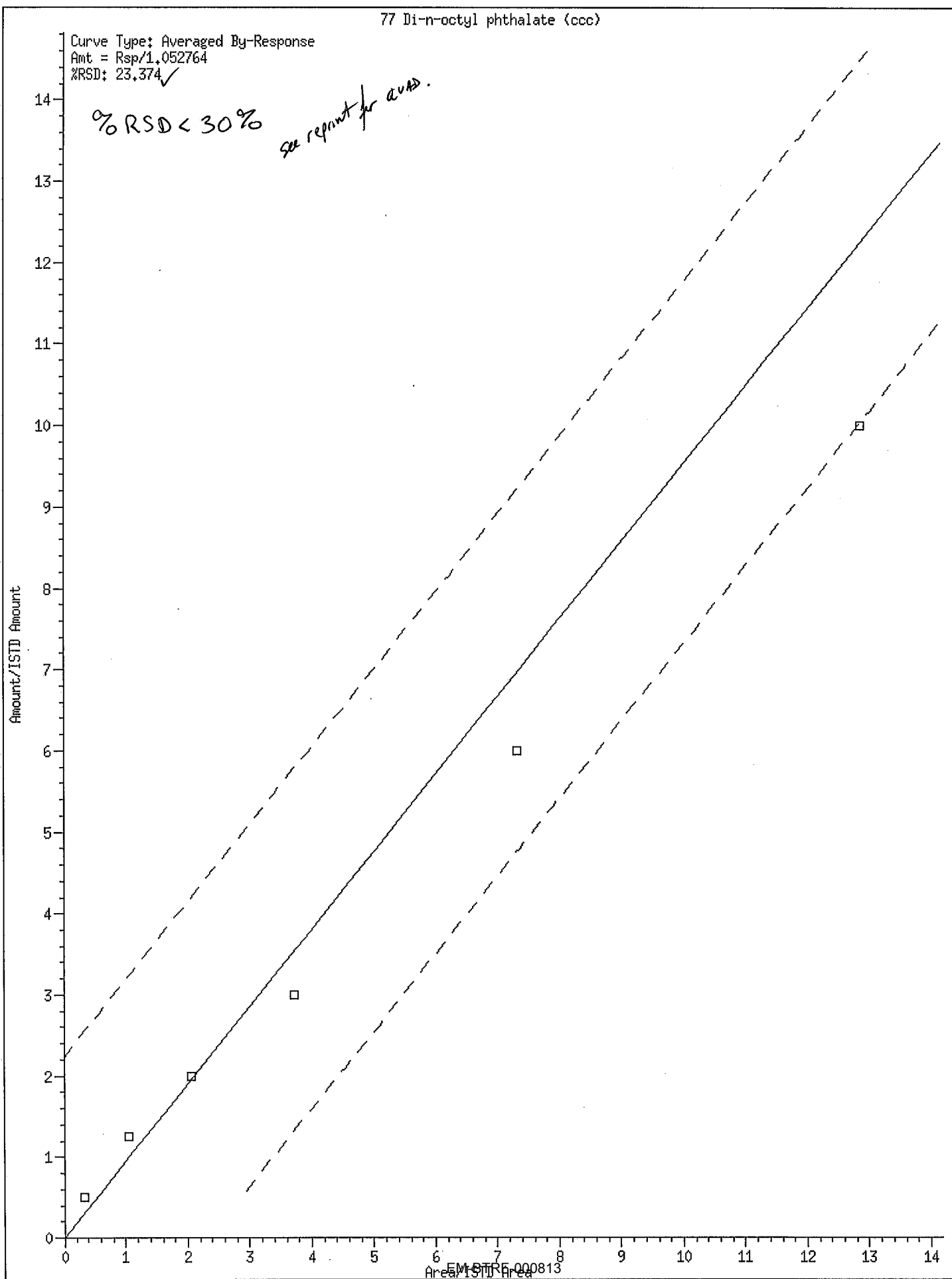
Curve Type: Linear By-Response
Amt = 0.1331565 + Rsp/0.7032529
R²: 0.9991421

RL=10

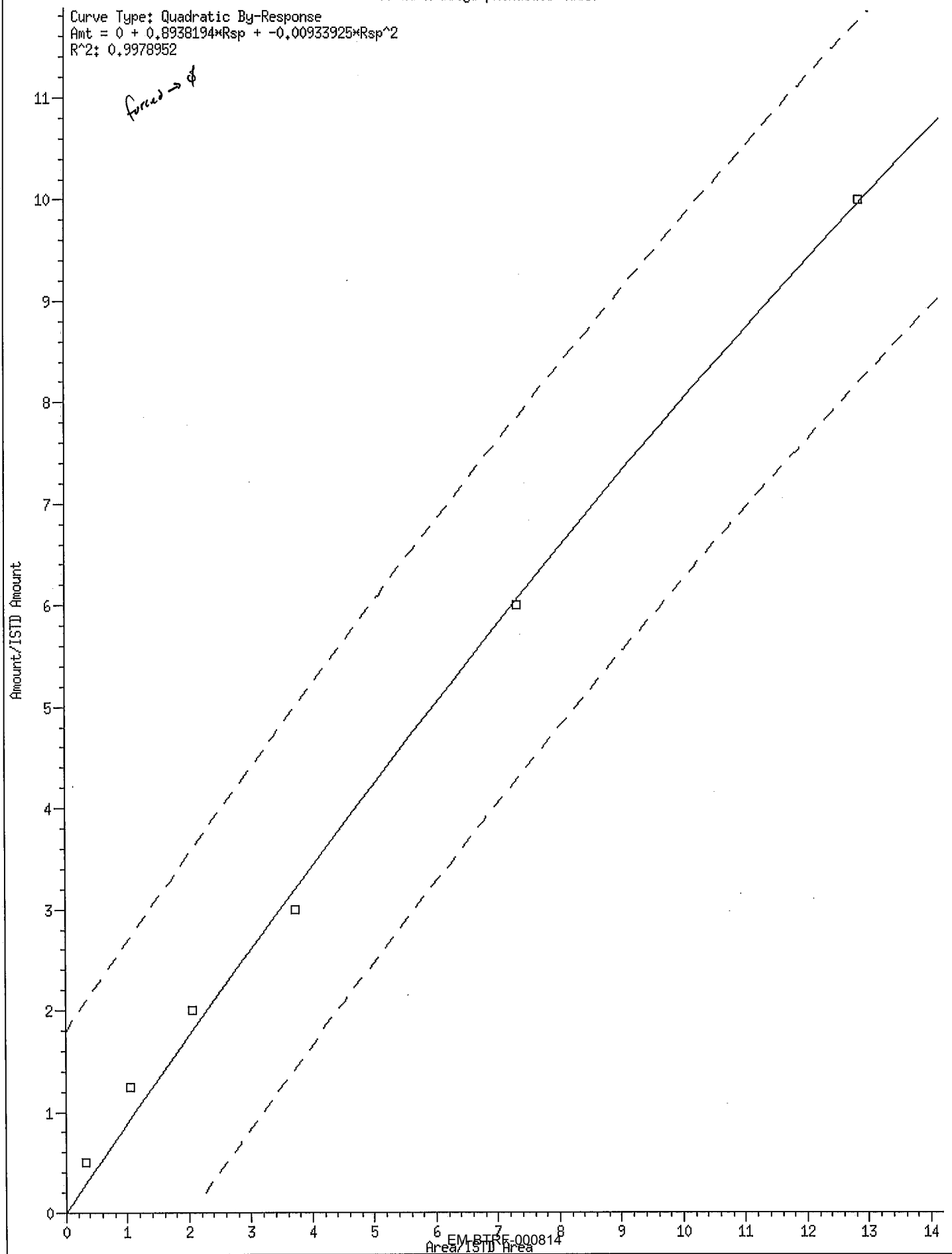
y = 2.66

Amount/ISTD Amount





77 Di-n-octyl phthalate (ccc)



80 Benzo(a)pyrene (ccc)

Curve Type: Averaged By-Response

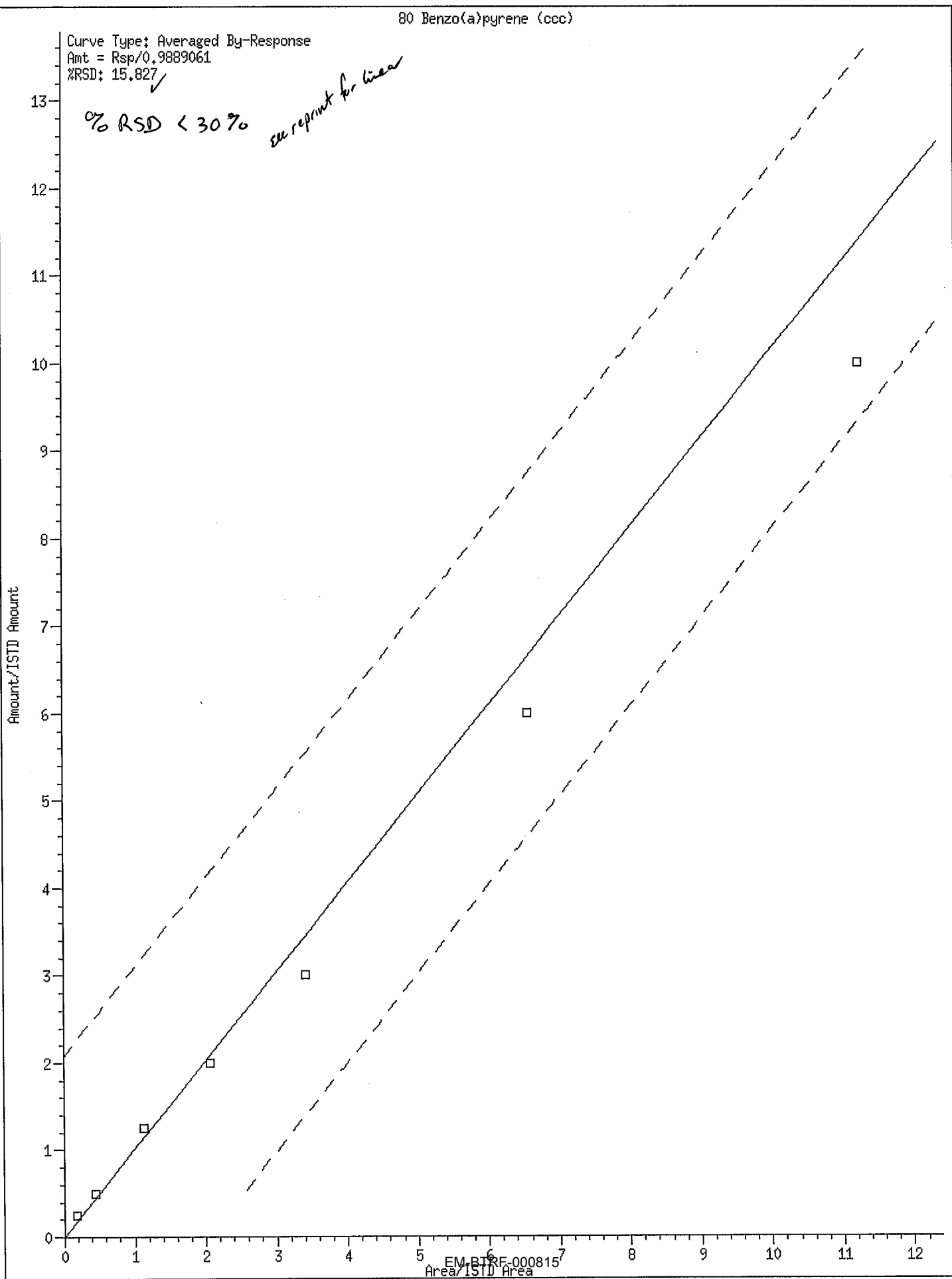
Amt = Rsp/0.9889061

RSD: 15.827 ✓

% RSD < 30%

see reprint for linear

Amount/ISTD Amount

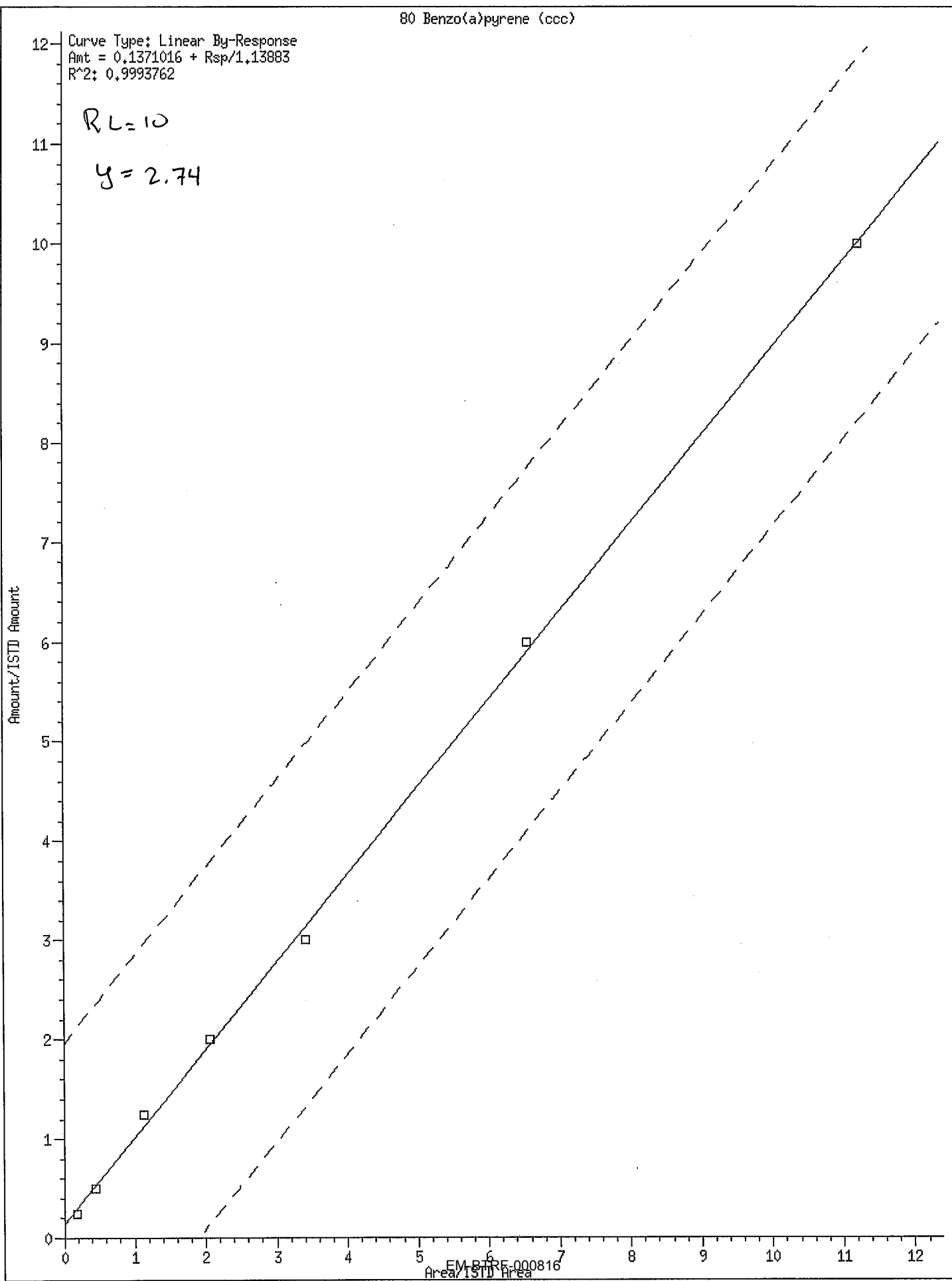


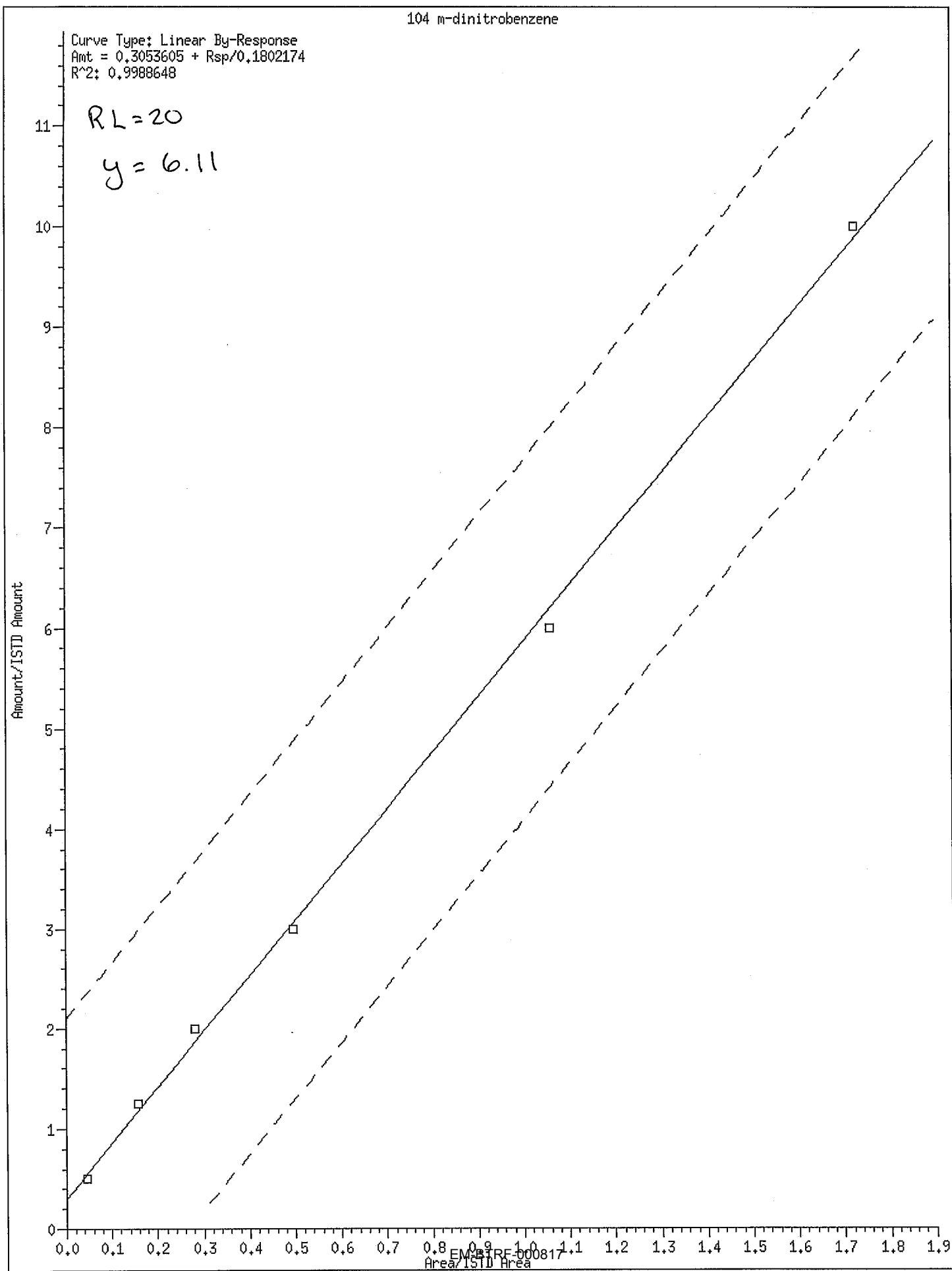
80 Benzo(a)pyrene (ccc)

Curve Type: Linear By-Response
Amt = 0.1371016 + Rsp/1.13883
R^2: 0.9993762

 $RL = 10$ $y = 2.74$

Amount/ISTD Amount





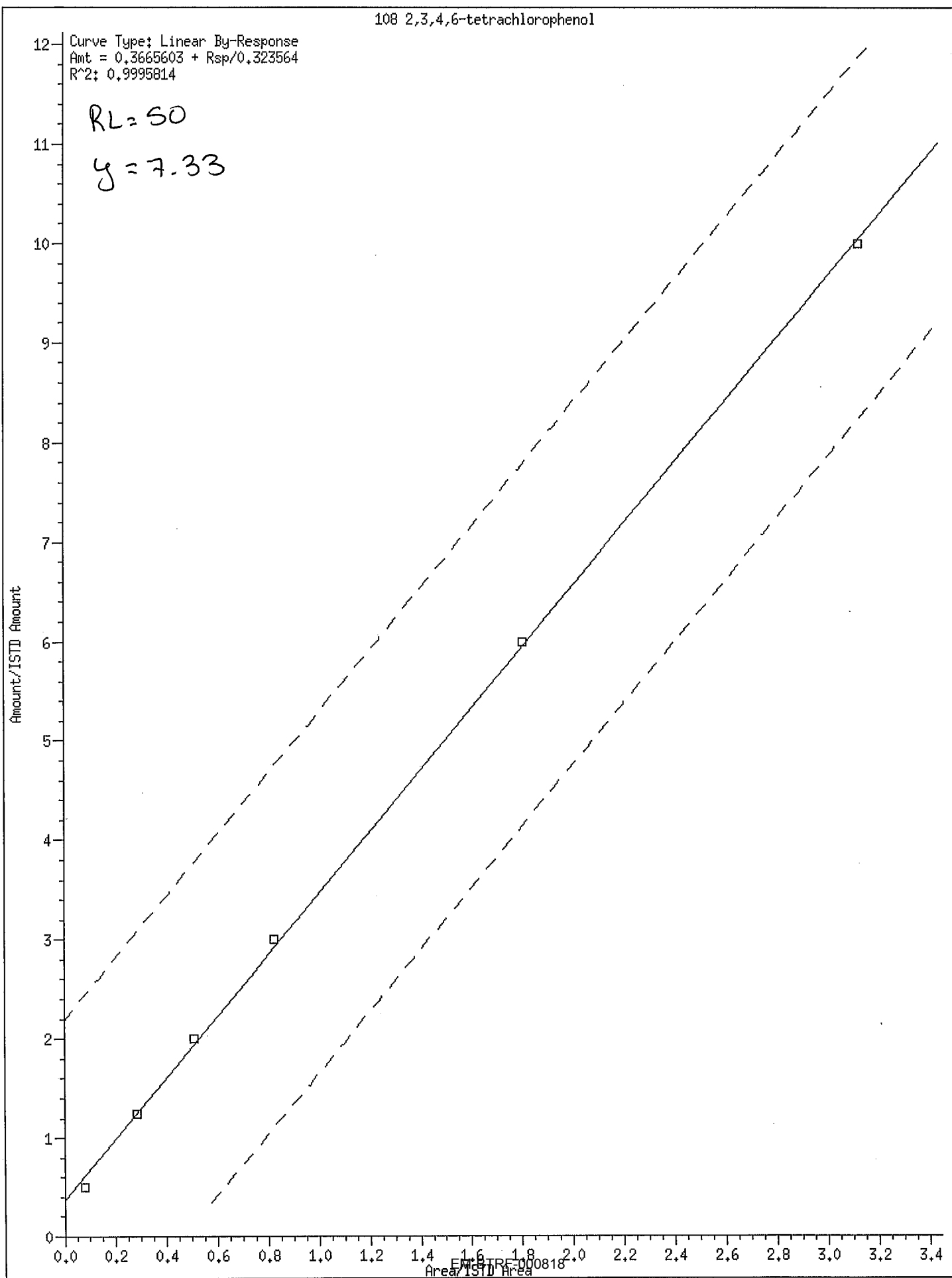
108 2,3,4,6-tetrachlorophenol

Curve Type: Linear By-Response
Amt = 0.3665603 + Rsp/0.323564
R²: 0.9995814

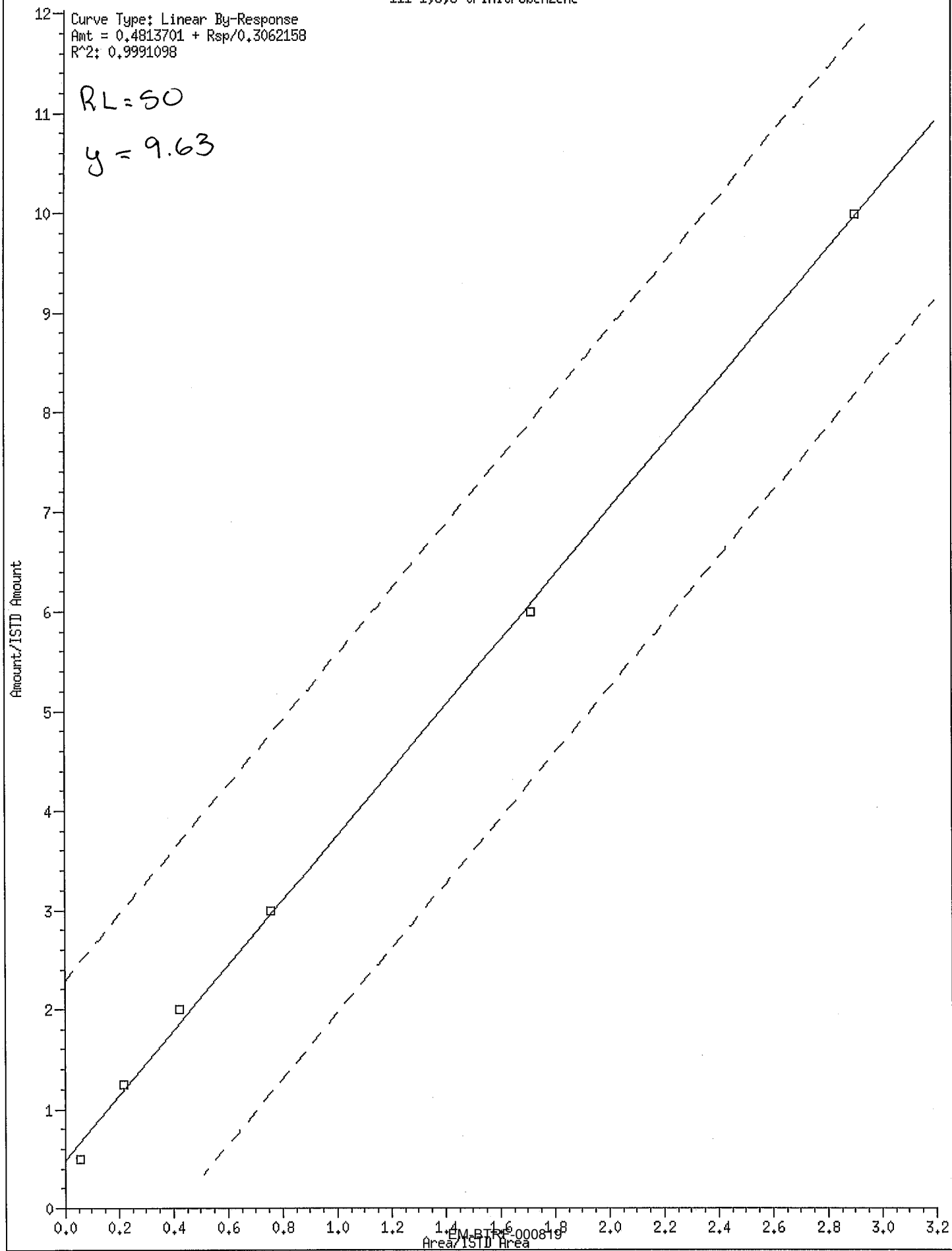
RL=50

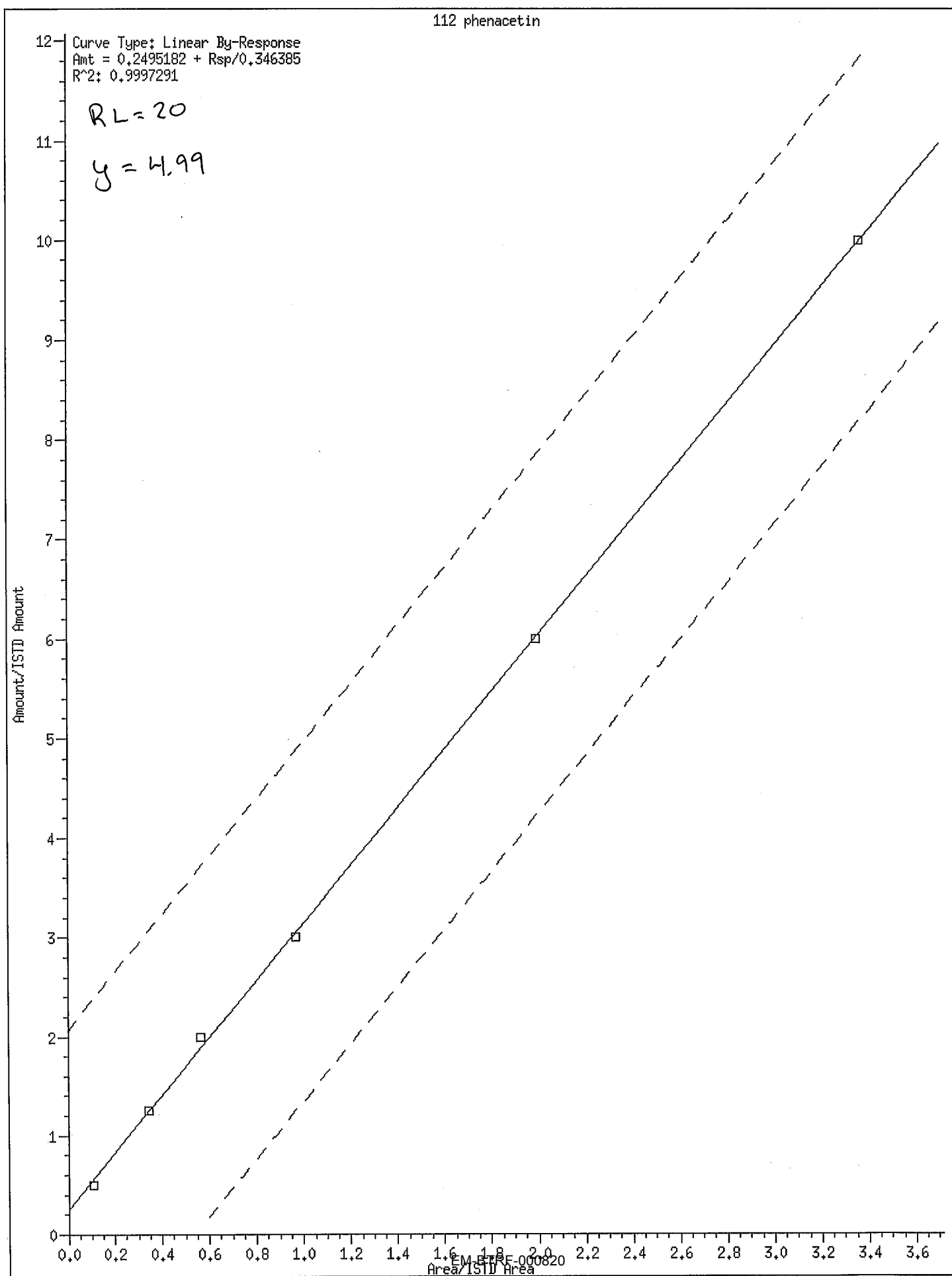
y = 7.33

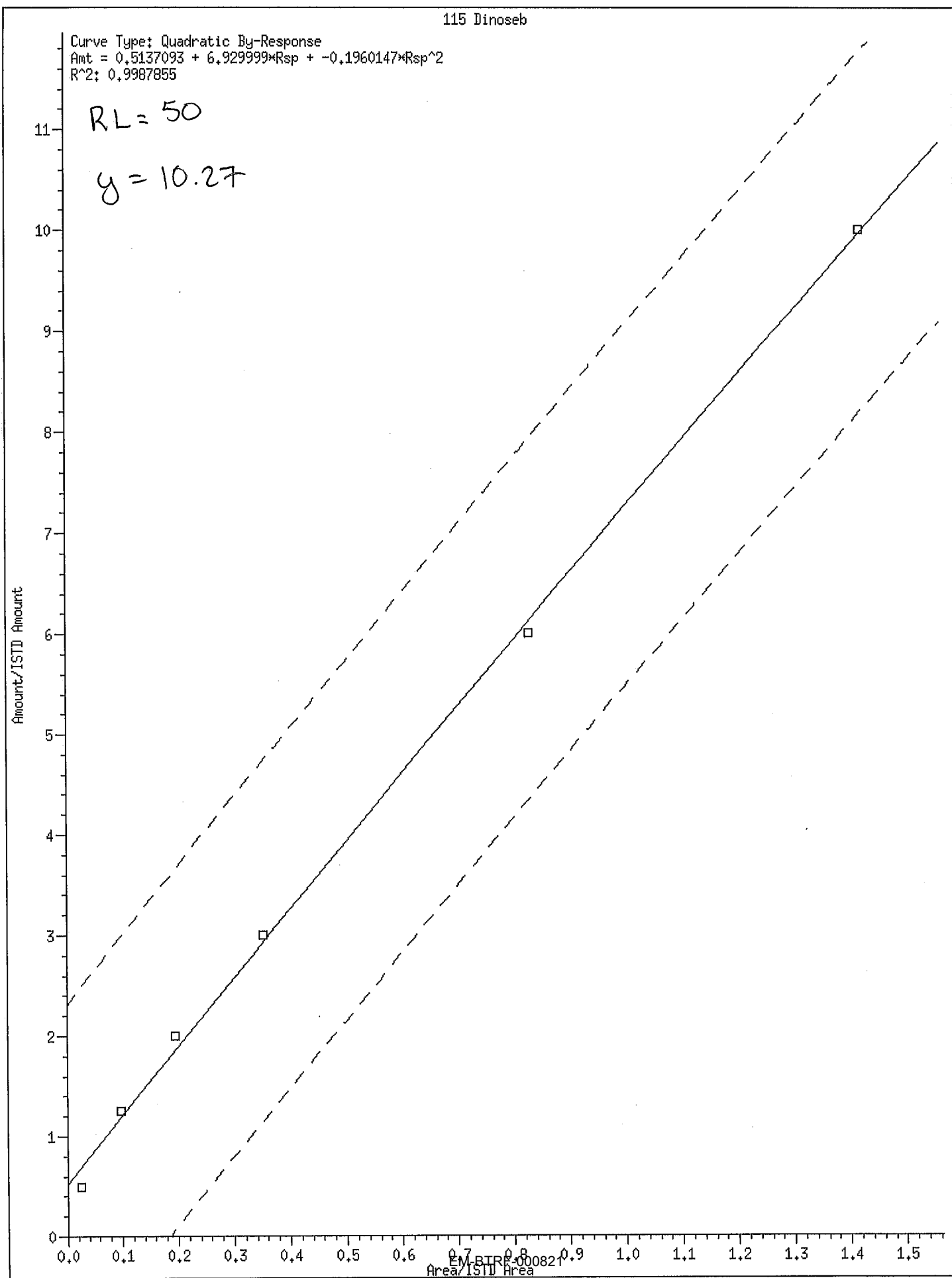
Amount/ISTD Amount



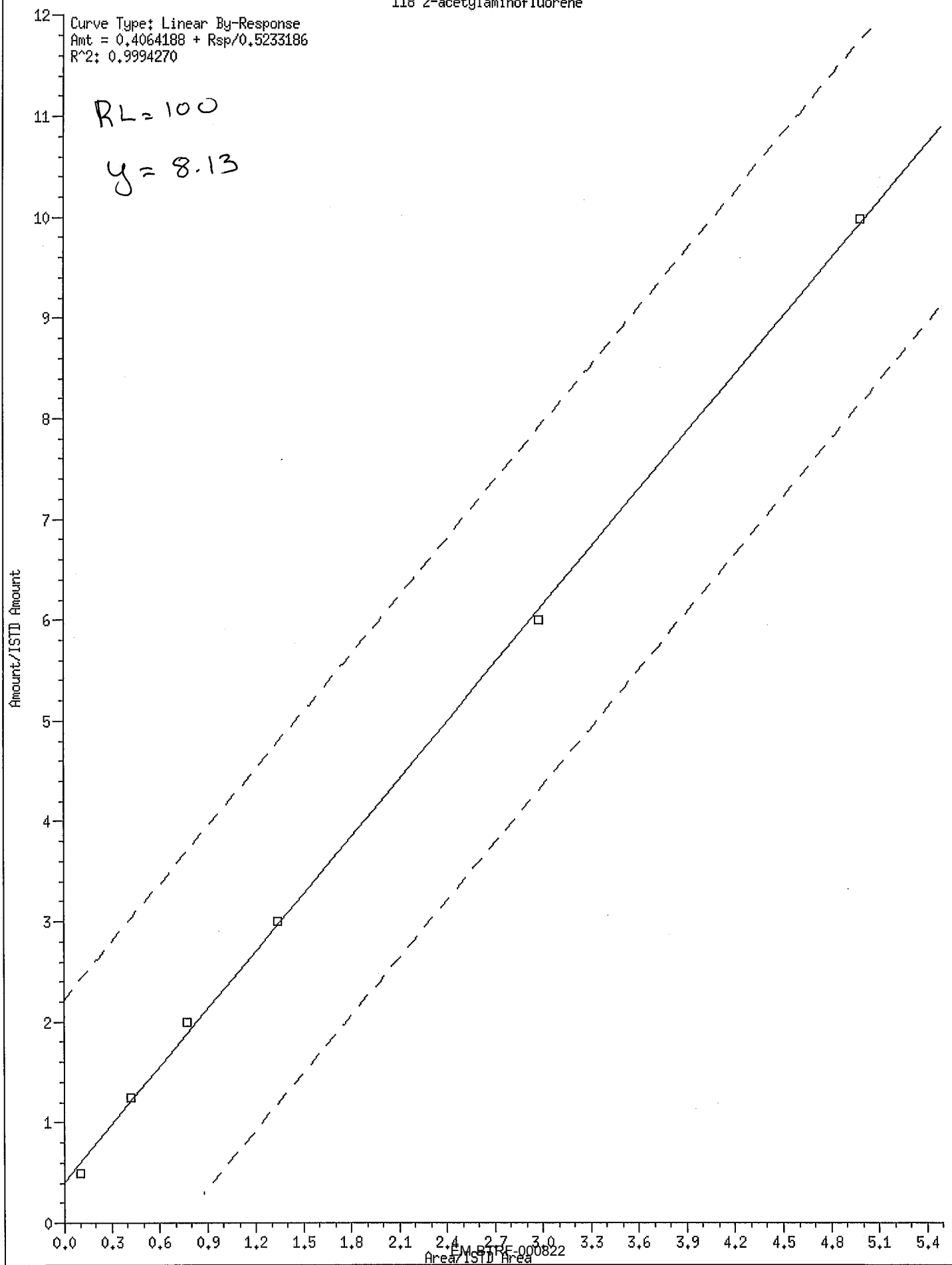
111 1,3,5-trinitrobenzene







118 2-acetylamino fluorene



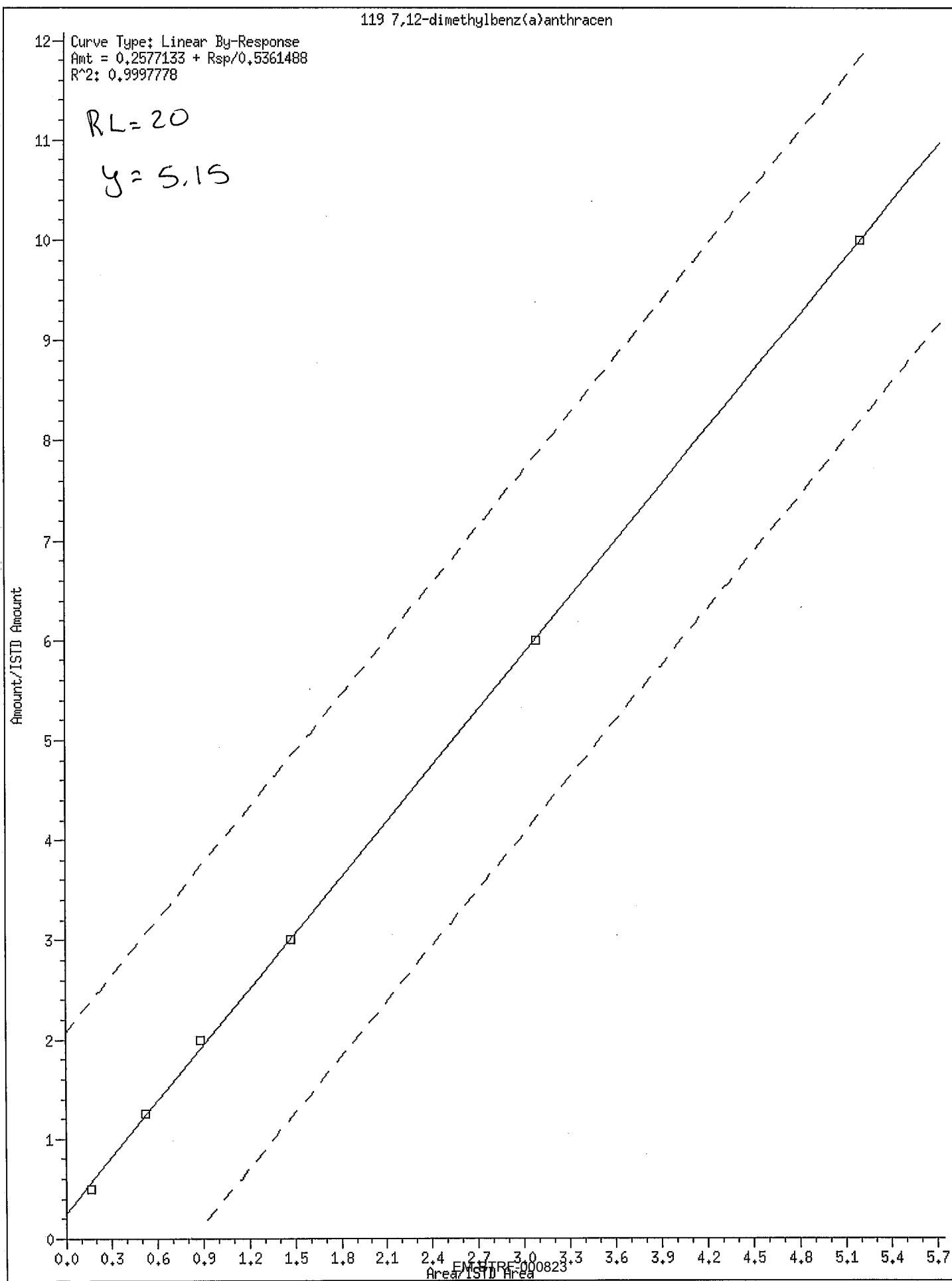
119 7,12-dimethylbenz(a)anthracen

Curve Type: Linear By-Response
Amt = 0.2577133 + Rsp/0.5361488
R²: 0.9997778

RL=20

y = 5.15

Amount/ISTD Amount



EMBTRE-000823

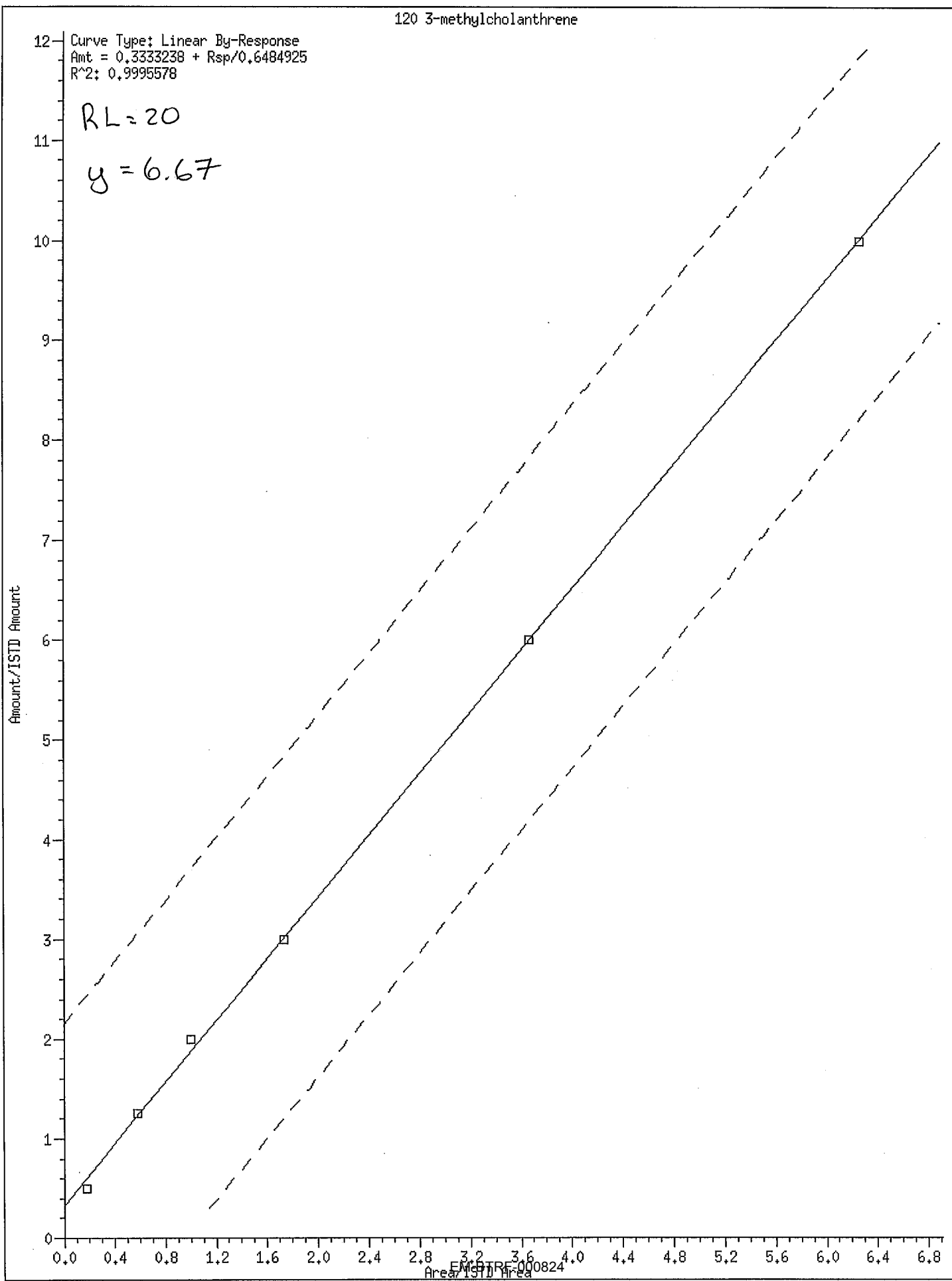
120 3-methylcholanthrene

Curve Type: Linear By-Response
Amt = 0.3333238 + Rsp/0.6484925
R²: 0.9995578

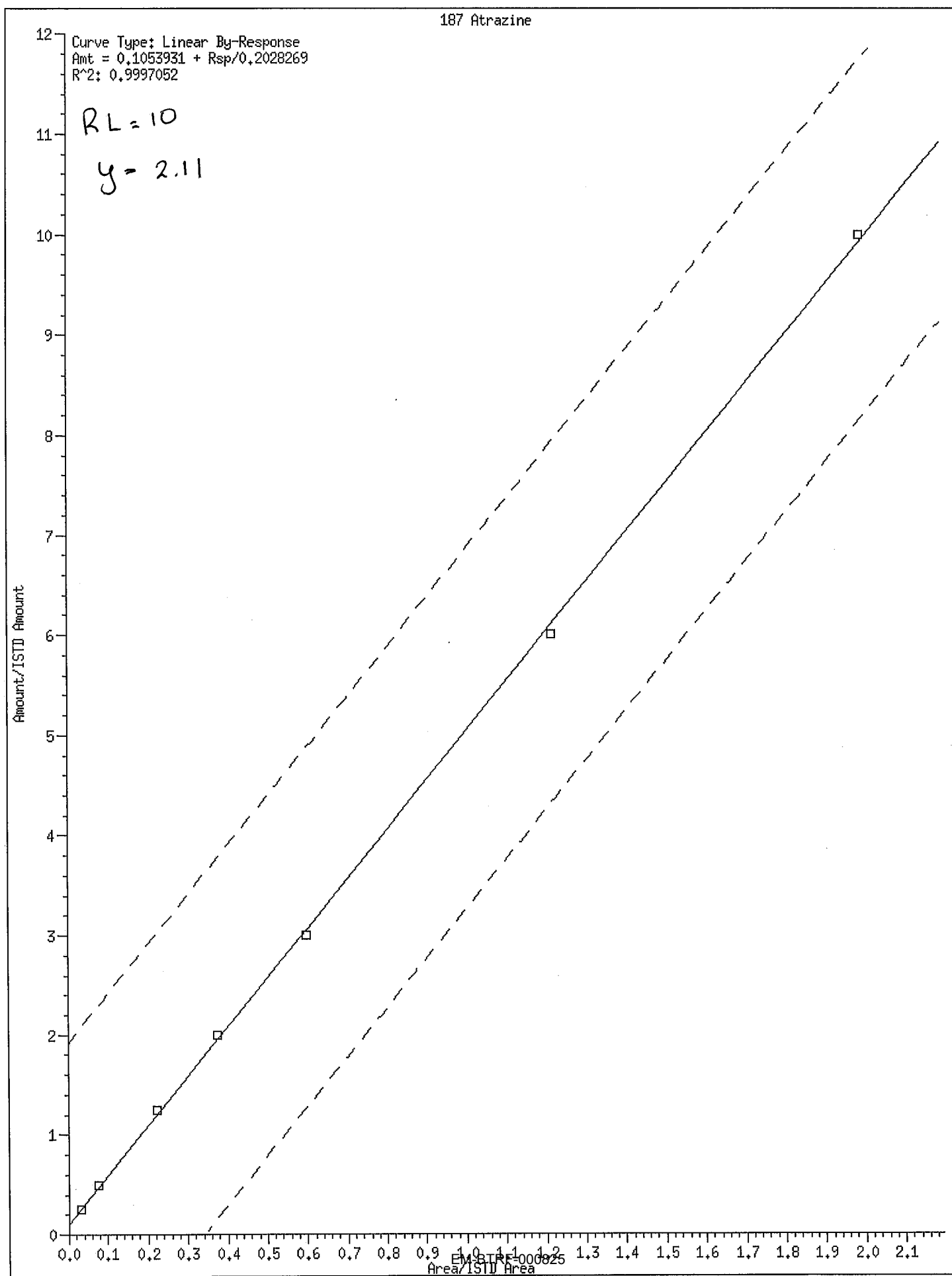
RL=20

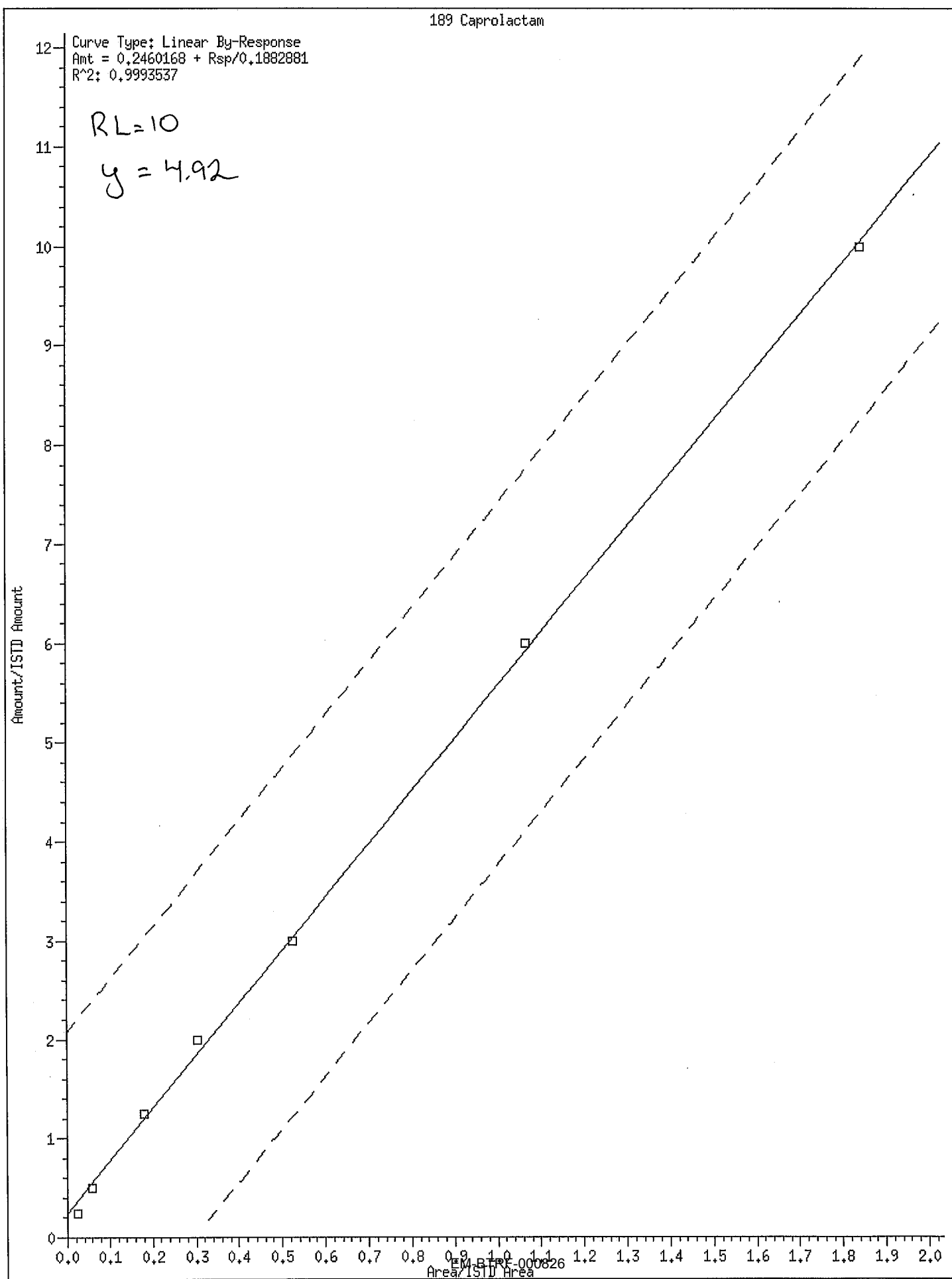
y = 6.67

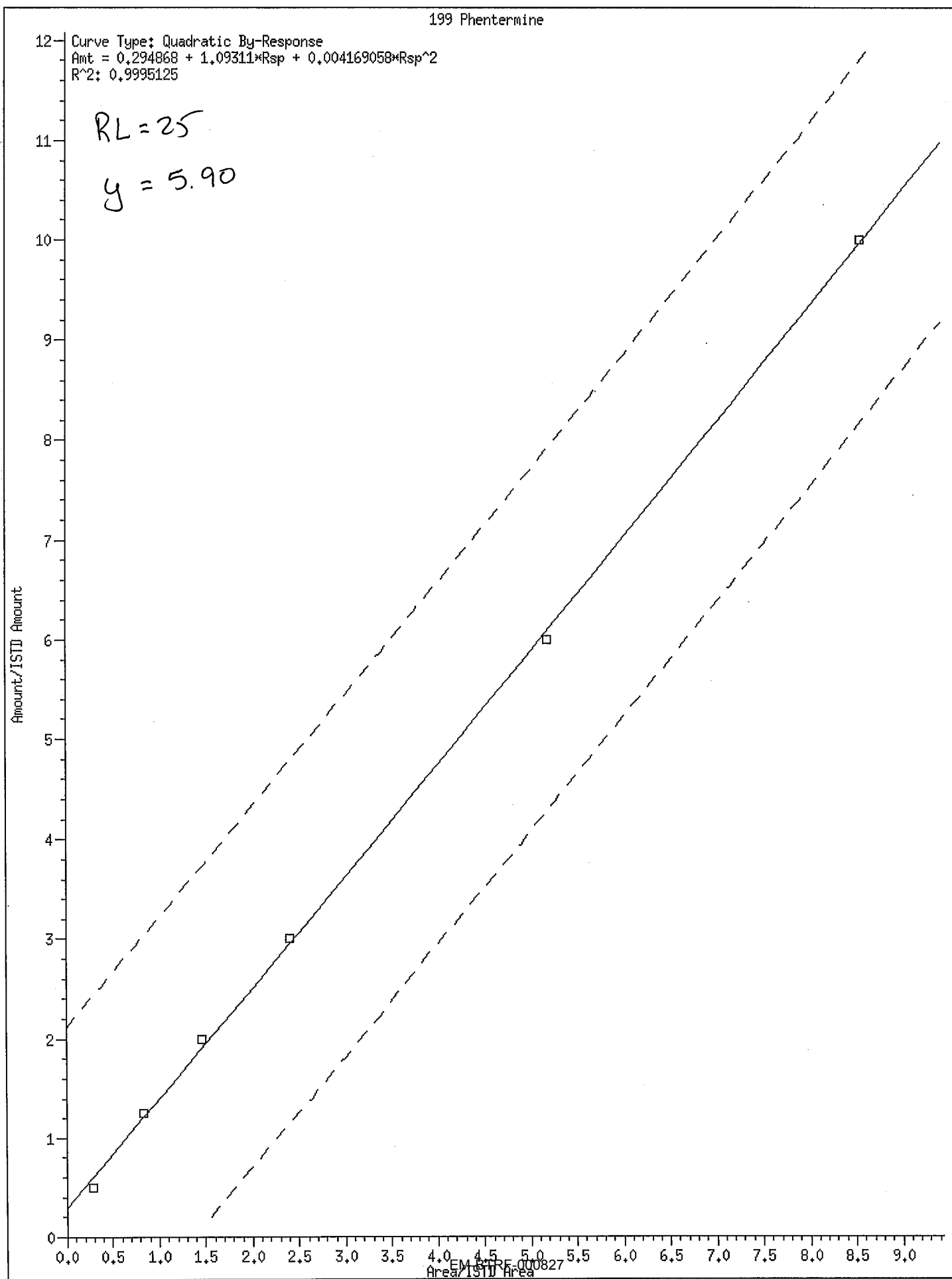
Amount/ISTD Amount



EMC-000824







200 3,3'-Dimethoxybenzidine

Curve Type: Quadratic By-Response

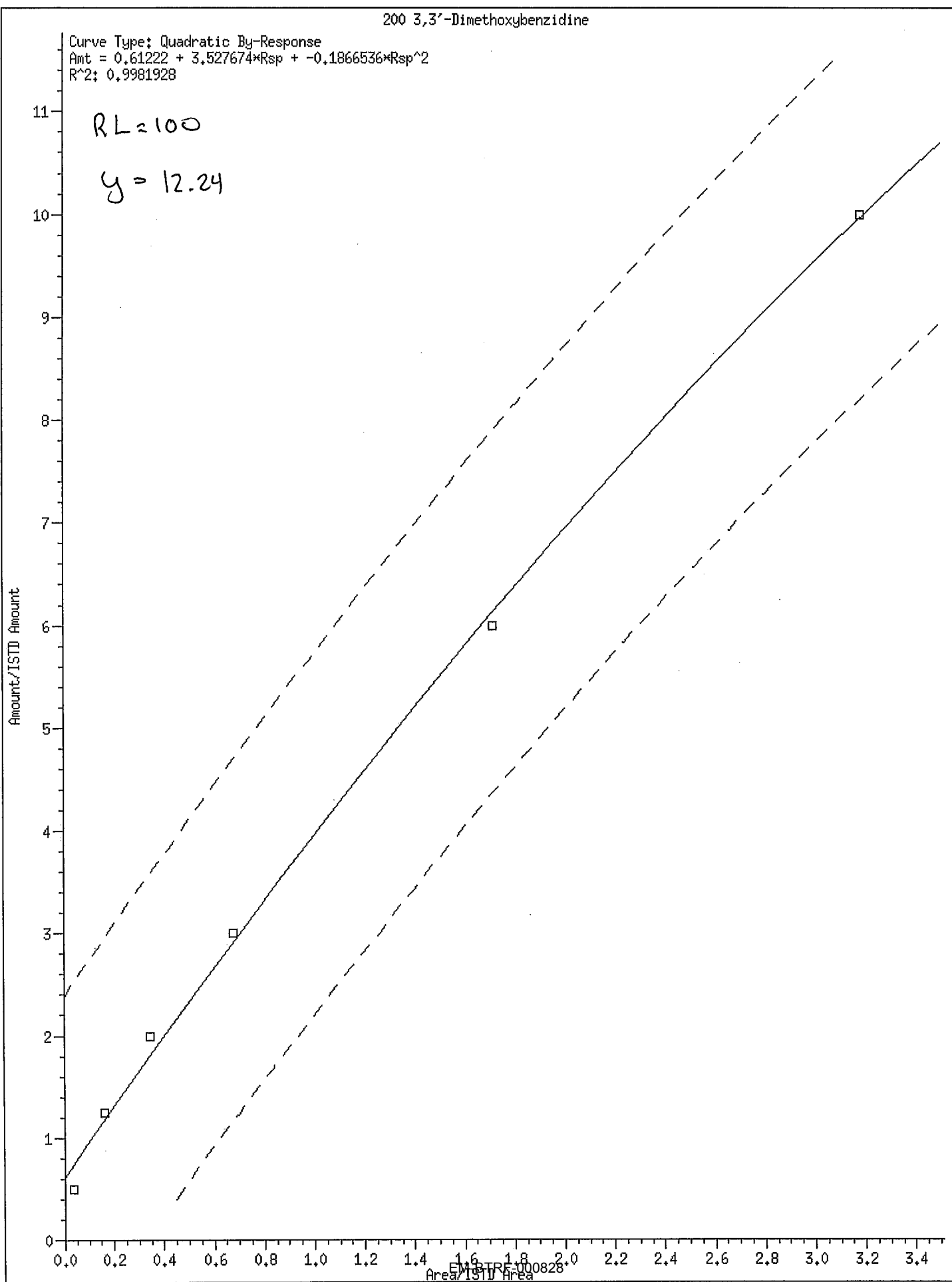
Amt = 0.61222 + 3.527674*Rsp + -0.1866536*Rsp^2

R^2: 0.9981928

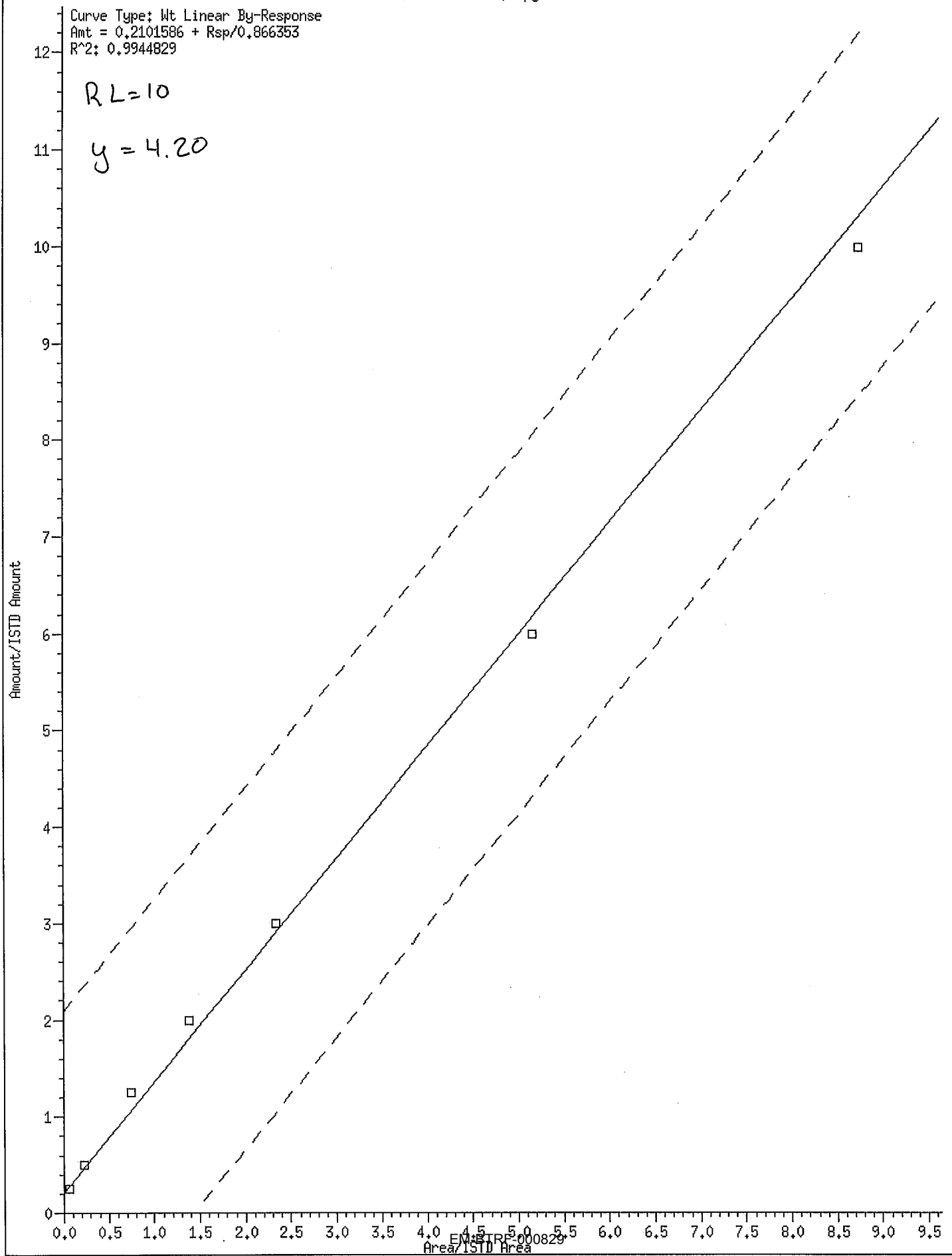
RL=100

y = 12.24

Amount/ISTD Amount

EM-BTRF-000828
Area/ISTD Area

201 Dibenzo(a,e)pyrene



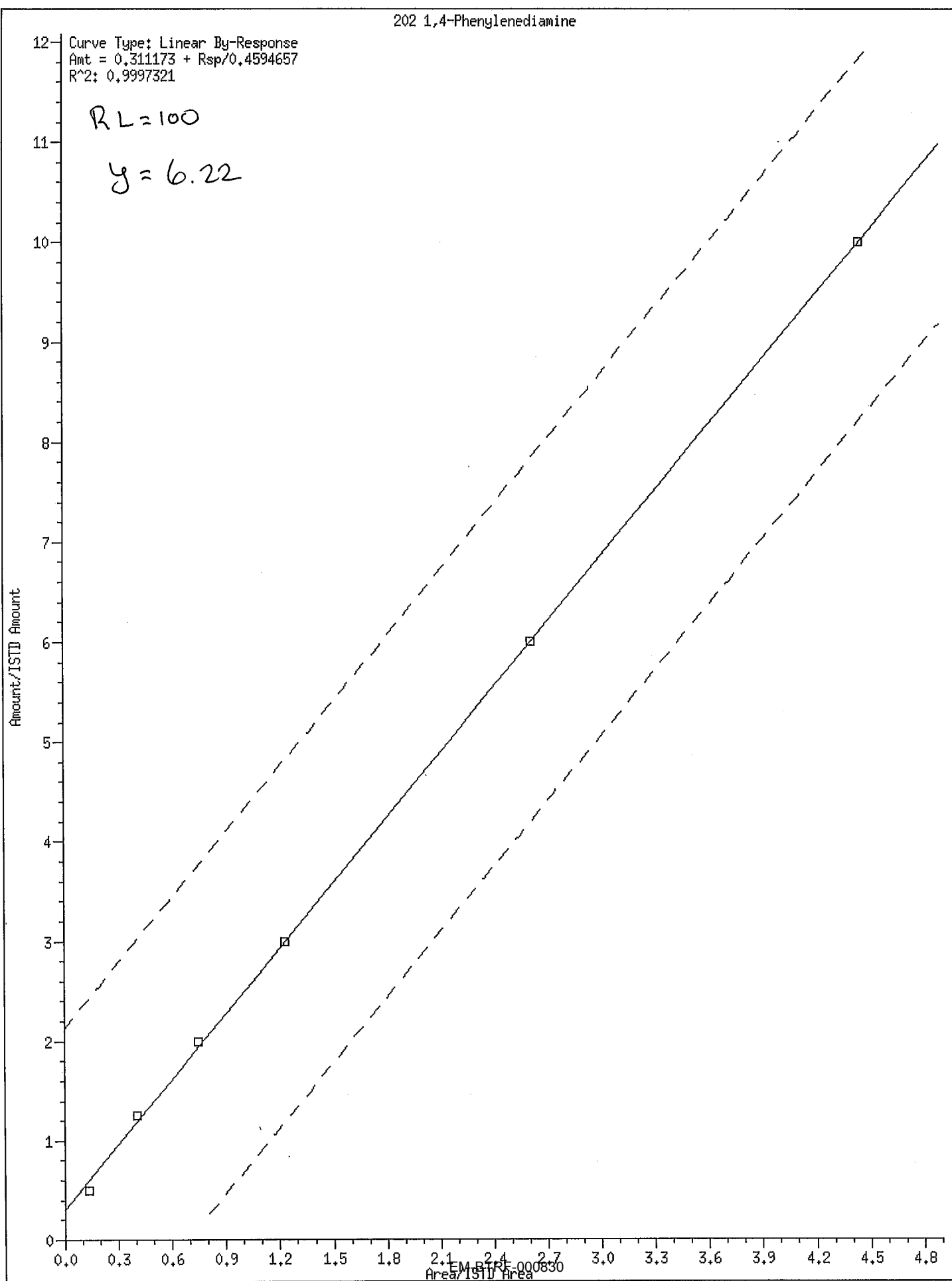
202 1,4-Phenylenediamine

Curve Type: Linear By-Response
Amt = 0.311173 + Rsp/0.4594657
R²: 0.9997321

RL = 100

y = 6.22

Amount/ISTD Amount



EM-BTRF-000830
Area/ISTD Area

Report Date:07/27/2011

Page 1

INITIAL CALIBRATION RT and RRT REPORT

for TO 13

STD 1 = /var/chem/gcms/md.i/D072511I.b/icdg258.d
 STD 2 = /var/chem/gcms/md.i/D072511I.b/icdg255.d
 STD 3 = /var/chem/gcms/md.i/D072511I.b/icdg254.d
 STD 4 = /var/chem/gcms/md.i/D072511I.b/icdg253.d
 STD 5 = /var/chem/gcms/md.i/D072511I.b/icdg252.d
 STD 6 = /var/chem/gcms/md.i/D072511I.b/icdg251.d
 STD 7 = /var/chem/gcms/md.i/D072511I.b/icdg256.d
 STD 8 = /var/chem/gcms/md.i/D072511I.b/icdg257.d

COMPOUND	STD 1	STD 2	STD 3	STD 4	STD 5	STD 6	STD 7	STD 8	MEAN
1,4-Dichlorobenzene-d4	4.307	4.307	4.301	4.301	4.301	4.301	4.301	4.301	4.302
Acenaphthene-d10	8.490	8.484	8.484	8.484	8.484	8.484	8.484	8.484	8.485
Phenanthrene-d10	9.900	9.900	9.894	9.894	9.895	9.895	9.895	9.895	9.896
Chrysene-d12	11.939	11.933	11.933	11.927	11.928	11.928	11.928	11.928	11.930
Naphthalene-d8	5.893	5.893	5.893	5.893	5.888	5.888	5.888	5.888	5.890
Perylene-d12	13.866	13.860	13.861	13.860	13.855	13.855	13.861	13.861	13.860
2-Fluorophenol	0.727	0.727	0.728	0.728	0.728	0.728	0.728	NA	0.728
Phenol-d5	0.915	0.914	0.915	0.914	0.914	0.914	0.914	NA	0.914
2,4,6-Tribromophenol	0.941	0.941	0.941	0.941	0.941	0.941	0.941	NA	0.941
Terphenyl-d14	0.926	0.926	0.926	0.926	0.926	0.926	0.926	NA	0.926
2-Fluorobiphenyl	0.895	0.895	0.895	0.895	0.895	0.895	0.895	NA	0.895
Nitrobenzene-d5	0.837	0.836	0.836	0.836	0.837	0.837	0.837	NA	0.836
Aniline	0.925	0.924	0.925	0.923	0.924	0.924	0.924	NA	0.924
Phenol (ccc)	0.920	0.918	0.918	0.918	0.917	0.917	0.917	NA	0.918
Bis(2-chloroethyl)ether	0.939	0.937	0.937	0.937	0.937	0.937	0.937	NA	0.937
2-Chlorophenol	0.954	0.952	0.954	0.952	0.952	0.952	0.952	NA	0.952
1,3-Dichlorobenzene	0.988	0.988	0.989	0.988	0.988	0.988	0.988	NA	0.988
1,4-Dichlorobenzene (ccc)	1.004	1.004	1.004	1.004	1.004	1.004	1.004	NA	1.004
N-Nitrosodimethylamine	0.514	0.513	0.514	0.514	0.514	0.514	0.514	NA	0.514
Benzyl alcohol	1.034	1.031	1.033	1.031	1.031	1.031	1.031	NA	1.032
1,2-Dichlorobenzene	1.042	1.041	1.042	1.042	1.042	1.042	1.042	NA	1.042
2-Methylphenol	1.063	1.061	1.061	1.061	1.061	1.061	1.061	NA	1.061
2,2'-Oxybis(1-Chloropropane)	1.068	1.068	1.070	1.068	1.068	1.068	1.068	NA	1.068
N-Nitroso-di-n-propylamine##	1.106	1.104	1.104	1.104	1.104	1.104	1.104	NA	1.104
4-Methylphenol	1.106	1.105	1.105	1.105	1.105	1.104	1.105	NA	1.105
Hexachloroethane	1.135	1.134	1.135	1.135	1.135	1.135	1.137	NA	1.135
Nitrobenzene	0.842	0.841	0.840	0.840	0.841	0.841	0.841	NA	0.841
Isophorone	0.897	0.895	0.894	0.894	0.894	0.894	0.895	NA	0.895
2-Nitrophenol (ccc)	0.913	0.912	0.912	0.912	0.913	0.912	0.913	NA	0.912
2,4-Dimethylphenol	0.926	0.925	0.925	0.925	0.925	0.925	0.925	NA	0.925
Bis(2-chloroethoxy)methane	0.947	0.946	0.946	0.945	0.946	0.946	0.946	NA	0.946
Benzoic acid	0.960	0.953	0.948	0.945	0.943	0.939	NA	NA	0.948
2,4-Dichlorophenol (ccc)	0.969	0.969	0.968	0.968	0.969	0.969	0.969	NA	0.969
1,2,4-Trichlorobenzene	0.989	0.988	0.988	0.988	0.989	0.989	0.989	NA	0.988
4-Chloroaniline	1.020	1.019	1.019	1.019	1.019	1.020	1.020	NA	1.019
Hexachlorobutadiene (ccc)	1.041	1.041	1.041	1.041	1.041	1.041	1.042	NA	1.041
4-Chloro-3-methylphenol (ccc)	1.144	1.144	1.142	1.142	1.144	1.144	1.145	NA	1.144
2-Methylnaphthalene	1.177	1.177	1.176	1.176	1.178	1.178	1.178	1.178	1.177

Evaluation Criteria

Internal Standard RT shift within 20 seconds of mean RT

Target compound RRT within 0.06 RRT of the RRT mean

Note: IS data is RT, SS and Target Compound Data is RRT.

EM-BTRF-000831

Report Date:07/27/2011

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INITIAL CALIBRATION RT and RRT REPORT

STD 1 = /var/chem/gcms/md.i/D072511I.b/icdg258.d
 STD 2 = /var/chem/gcms/md.i/D072511I.b/icdg255.d
 STD 3 = /var/chem/gcms/md.i/D072511I.b/icdg254.d
 STD 4 = /var/chem/gcms/md.i/D072511I.b/icdg253.d
 STD 5 = /var/chem/gcms/md.i/D072511I.b/icdg252.d
 STD 6 = /var/chem/gcms/md.i/D072511I.b/icdg251.d
 STD 7 = /var/chem/gcms/md.i/D072511I.b/icdg256.d
 STD 8 = /var/chem/gcms/md.i/D072511I.b/icdg257.d

COMPOUND	STD 1	STD 2	STD 3	STD 4	STD 5	STD 6	STD 7	STD 8	MEAN
Hexachlorocyclopentadiene###	0.853	0.853	0.853	0.853	0.853	0.853	0.853	NA	0.853
2,4,6-Trichlorophenol (ccc)	0.878	0.878	0.877	0.877	0.877	0.877	0.877	NA	0.877
2,4,5-Trichlorophenol	0.884	0.884	0.884	0.884	0.884	0.884	0.884	NA	0.884
2-Chloronaphthalene	0.913	0.913	0.913	0.913	0.913	0.913	0.913	NA	0.913
2-Nitroaniline	0.933	0.933	0.932	0.932	0.932	0.932	0.932	NA	0.932
2,6-Dinitrotoluene	0.974	0.974	0.973	0.972	0.972	0.972	0.972	NA	0.973
3-Nitroaniline	0.997	0.996	0.996	0.996	0.996	0.996	NA	NA	0.996
2,4-Dinitrophenol ##spcc##	1.011	1.011	1.010	1.010	1.010	1.010	NA	NA	1.010
Dibenzofuran	1.028	1.028	1.028	1.028	1.028	1.028	1.028	NA	1.028
4-Nitrophenol ##spcc##	1.025	1.025	1.024	1.024	1.024	1.024	NA	NA	1.024
2,4-Dinitrotoluene	1.029	1.029	1.028	1.028	1.028	1.028	1.028	NA	1.028
Dimethyl phthalate	0.968	0.967	0.967	0.967	0.967	0.966	0.966	NA	0.967
Diethyl phthalate	1.062	1.062	1.062	1.062	1.062	1.062	1.062	NA	1.062
4-Chlorophenyl phenyl ether	1.072	1.072	1.072	1.072	1.072	1.072	1.072	NA	1.072
4-Nitroaniline	1.075	1.075	1.073	1.073	1.073	1.073	NA	NA	1.074
4,6-Dinitro-2-methylphenol	0.925	0.924	0.924	0.924	0.924	0.924	NA	NA	0.924
N-Ndpa / diphenylamine (ccc)	0.931	0.930	0.931	0.931	0.930	0.930	0.930	NA	0.930
1,2-Diphenylhydrazine/azobnz	0.934	0.934	0.934	0.934	0.934	0.934	0.934	NA	0.934
4-Bromophenyl phenyl ether	0.964	0.964	0.964	0.964	0.964	0.964	0.964	NA	0.964
Hexachlorobenzene	0.970	0.969	0.970	0.969	0.969	0.969	0.969	NA	0.969
Pentachlorophenol (ccc)	0.986	0.986	0.986	0.986	0.986	0.986	NA	NA	0.986
Di-n-butyl phthalate	1.046	1.046	1.046	1.046	1.046	1.046	1.046	NA	1.046
Butyl benzyl phthalate	0.956	0.956	0.956	0.956	0.956	0.956	0.956	NA	0.956
3,3'-Dichlorobenzidine	0.996	0.996	0.996	0.996	0.996	0.996	NA	NA	0.996
Acenaphthene (ccc)	1.005	1.005	1.005	1.005	1.004	1.004	1.004	1.004	1.004
Benzo(a)Anthracene	0.999	0.999	0.999	0.999	0.999	0.999	0.999	0.999	0.999
Benzo(b)fluoranthene	0.956	0.956	0.955	0.955	0.955	0.955	0.955	NA	0.955
Chrysene	1.002	1.002	1.002	1.002	1.002	1.002	1.002	1.002	1.002
Fluorene	1.070	1.071	1.070	1.070	1.070	1.070	1.070	1.070	1.070
Naphthalene	1.006	1.005	1.005	1.005	1.005	1.005	1.005	1.005	1.005
Benzo(g,h,i)perylene	1.131	1.131	1.130	1.130	1.130	1.129	1.129	NA	1.130
Acenaphthylene	0.979	0.979	0.979	0.979	0.979	0.979	0.978	0.979	0.979
Phenanthrene	1.002	1.002	1.002	1.002	1.002	1.002	1.002	1.002	1.002
Dibenz(a,h)anthracene	1.109	1.108	1.108	1.108	1.108	1.108	1.107	NA	1.108
Anthracene	1.006	1.006	1.006	1.006	1.006	1.006	1.006	1.006	1.006
Indeno(1,2,3-cd)pyrene	1.107	1.107	1.106	1.106	1.106	1.106	1.106	NA	1.106
Benzo(a)pyrene (ccc)	0.994	0.994	0.993	0.993	0.993	0.993	0.993	NA	0.993
Fluoranthene (ccc)	1.090	1.090	1.090	1.090	1.090	1.090	1.090	1.090	1.090

Evaluation Criteria

Internal Standard RT shift within 20 seconds of mean RT

Target compound RRT within 0.06 RRT of the RRT mean

Note: IS data is RT, SS and Target Compound Data is RRT.

EM-BTRF-000832

Report Date:07/27/2011

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INITIAL CALIBRATION RT and RRT REPORT

STD 1 = /var/chem/gcms/md.i/D072511I.b/icdg258.d
 STD 2 = /var/chem/gcms/md.i/D072511I.b/icdg255.d
 STD 3 = /var/chem/gcms/md.i/D072511I.b/icdg254.d
 STD 4 = /var/chem/gcms/md.i/D072511I.b/icdg253.d
 STD 5 = /var/chem/gcms/md.i/D072511I.b/icdg252.d
 STD 6 = /var/chem/gcms/md.i/D072511I.b/icdg251.d
 STD 7 = /var/chem/gcms/md.i/D072511I.b/icdg256.d
 STD 8 = /var/chem/gcms/md.i/D072511I.b/icdg257.d

COMPOUND	STD 1	STD 2	STD 3	STD 4	STD 5	STD 6	STD 7	STD 8	MEAN
Pyrene	0.917	0.917	0.917	0.918	0.917	0.917	0.917	0.917	0.917
Benzo(k)fluoranthene	0.959	0.959	0.958	0.958	0.958	0.958	0.958	NA	0.958
Bis(2-ethylhexyl) phthalate	0.998	0.998	0.998	0.999	0.998	0.998	0.999	NA	0.998
Di-n-octyl phthalate (ccc)	0.914	0.914	0.914	0.913	0.913	0.913	NA	NA	0.914
Pyridine	0.521	0.521	0.522	0.522	0.522	0.522	0.523	NA	0.522
Carbazole	1.019	1.019	1.019	1.019	1.019	1.019	1.019	NA	1.019
3&4 Methylphenol	1.106	1.105	1.105	1.105	1.105	1.104	1.105	NA	1.105
1,4-Dioxane	NA	NA	0.477	0.477	0.477	0.477	0.477	0.477	0.477

Evaluation Criteria

Internal Standard RT shift within 20 seconds of mean RT

Target compound RRT within 0.06 RRT of the RRT mean

Note: IS data is RT, SS and Target Compound Data is RRT.

Data File: /var/chem/gcms/md.i/D072511I.b/icdg257.d

Report Date: 25-Jul-2011 15:42

TestAmerica Knoxville

Semivolatile Organic Compounds by GC/MS

Data file : /var/chem/gcms/md.i/D072511I.b/icdg257.d
 Lab Smp Id: ICDG257 Client Smp ID: STD002
 Inj Date : 25-JUL-2011 15:19
 Operator : 60841 Inst ID: md.i
 Smp Info : ICDG257,,1,7,,STD002
 Misc Info : D072511I,8270a9,low.sub
 Comment : Semivolatile Organic Compounds by GC/MS
 Method : /var/chem/gcms/md.i/D072511I.b/8270a9.m
 Meth Date : 25-Jul-2011 15:37 chemist Quant Type: ISTD
 Cal Date : 25-JUL-2011 15:19 Cal File: icdg257.d
 Als bottle: 1 Calibration Sample, Level: 7
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: low.sub
 Target Version: 3.50
 Processing Host: qmidhp01

Concentration Formula: Amt * DF * Vt*Sf/Ws * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	1000.00000	Volume of final extract (uL) (1000 low, 2
Sf	1.00000	Prep Split Factor
Ws	30.00000	Weight of sample extracted (g)

Cpnd Variable

Local Compound Variable

Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
						CAL-AMT	ON-COL
						(ng/uL)	(ng/uL)
* 1 1,4-Dichlorobenzene-d4	152	4.301	4.301	(1.000)	46032	20.0000	20.0
* 2 Naphthalene-d8	136	5.888	5.888	(1.000)	179782	20.0000	20.0
* 3 Acenaphthene-d10	164	8.485	8.485	(1.000)	107048	20.0000	20.0
* 4 Phenanthrene-d10	188	9.895	9.895	(1.000)	209288	20.0000	20.0
* 5 Chrysene-d12	240	11.928	11.928	(1.000)	221888	20.0000	20.0
* 6 Perylene-d12	264	13.861	13.861	(1.000)	192894	20.0000	20.0
\$ 7 2-Fluorophenol	112	3.132	3.132	(0.728)	4899	2.00000	1.93
\$ 8 Phenol-d5	99	3.931	3.931	(0.914)	5569	2.00000	1.83
\$ 9 Nitrobenzene-d5	82	4.930	4.930	(0.837)	5127	2.00000	1.79
\$ 10 2-Fluorobiphenyl	172	7.591	7.591	(0.895)	13815	2.00000	2.06
\$ 11 2,4,6-Tribromophenol	330	9.307	9.307	(0.941)	1120	2.00000	1.34
\$ 12 Terphenyl-d14	244	11.046	11.046	(0.926)	16162	2.00000	1.92
175 1,4-Dioxane	88	2.051	2.051	(0.477)	161856	160.000	164 (A)
37 Naphthalene	128	5.917	5.917	(1.005)	17439	2.00000	2.02

Data File: /var/chem/gcms/md.i/D072511I.b/icdg257.d
 Report Date: 25-Jul-2011 15:42

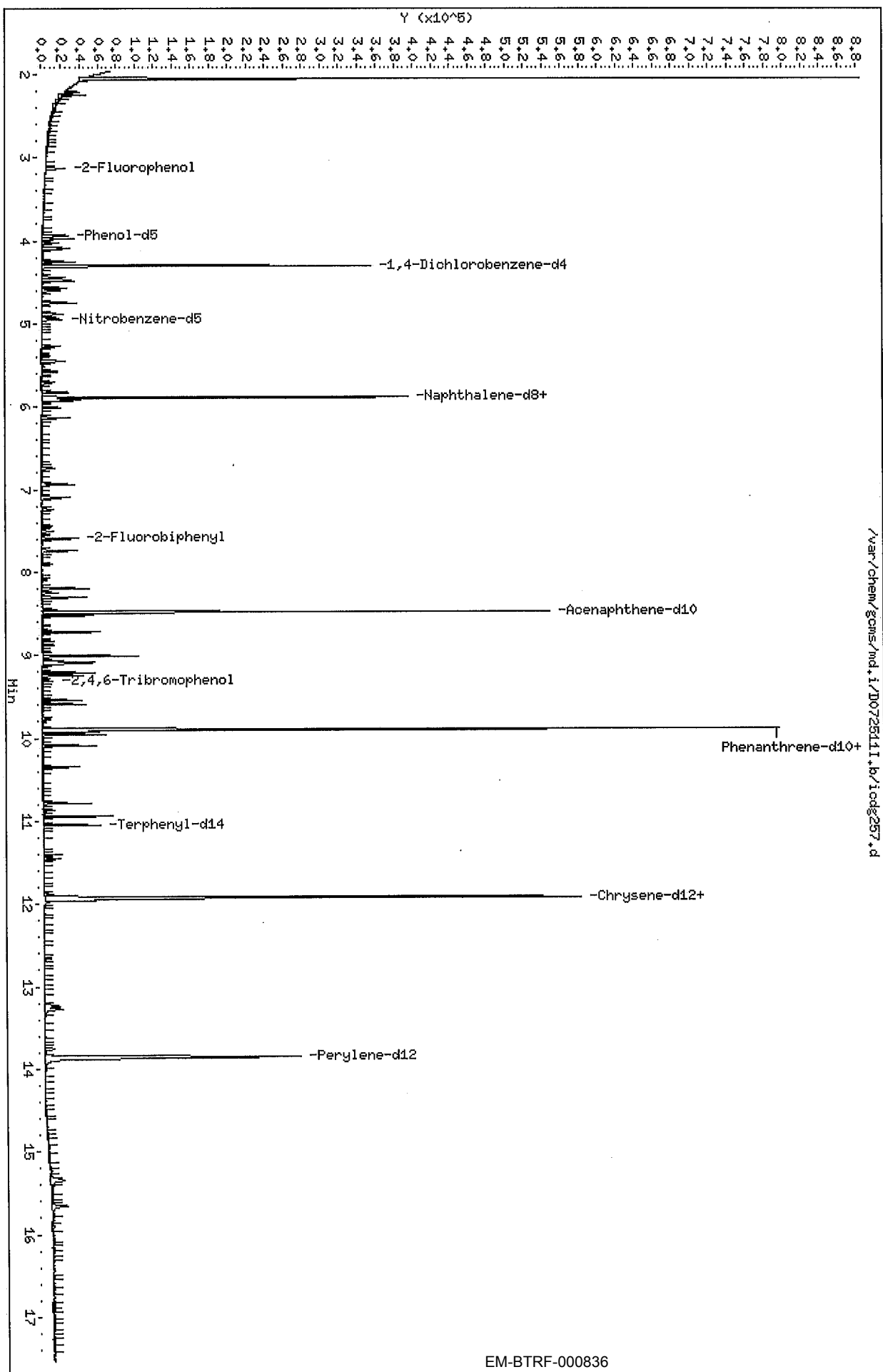
Compounds	QUANT SIG					AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ng/uL)	ON-COL (ng/uL)
=====	=====	==	=====	=====	=====	=====	=====
41 2-Methylnaphthalene	142	6.933	6.933	(1.178)	10930	2.00000	1.88
47 Acenaphthylene	152	8.308	8.308	(0.979)	16750	2.00000	1.83
51 Acenaphthene (ccc)	153	8.520	8.520	(1.004)	12341	2.00000	2.04
56 Fluorene	166	9.078	9.078	(1.070)	13922	2.00000	2.00
66 Phenanthrene	178	9.912	9.912	(1.002)	23857	2.00000	2.13
67 Anthracene	178	9.953	9.953	(1.006)	19370	2.00000	1.78
70 Fluoranthene (ccc)	202	10.788	10.788	(1.090)	18795	2.00000	1.63
71 Pyrene	202	10.941	10.941	(0.917)	22439	2.00000	1.78
72 Butyl benzyl phthalate	149	11.405	11.405	(0.956)	5025	2.00000	1.02
73 Benzo(a)Anthracene	228	11.916	11.916	(0.999)	18783	2.00000	1.71
75 Chrysene	228	11.951	11.951	(1.002)	25473	2.00000	2.17
76 Bis(2-ethylhexyl) phthalate	149	11.910	11.910	(0.999)	6026	2.00000	0.900
78 Benzo(b)fluoranthene	252	13.232	13.232	(0.955)	11546	2.00000	1.19
79 Benzo(k)fluoranthene	252	13.267	13.267	(0.957)	19219	2.00000	1.65
80 Benzo(a)pyrene (ccc)	252	13.755	13.755	(0.992)	10018	2.00000	1.05
82 Dibenz(a,h)anthracene	278	15.353	15.353	(1.108)	10397	2.00000	1.20
81 Indeno(1,2,3-cd)pyrene	276	15.318	15.318	(1.105)	11876	2.00000	1.12
83 Benzo(g,h,i)perylene	276	15.653	15.653	(1.129)	13036	2.00000	1.40

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

Data File: /var/chem/gcms/md.i/D072511.b/idx257.d
Date: 25-JUL-2011 15:19
Client ID: STD002
Sample Info: ICD257, 1, 7, STD002
Volume Injected (ul): 1.0
Column phase: Rx1-5 Sil MS

Instrument: md.i
Operator: 60841
Column diameter: 0.25



Data File: /chem/gcms/md.i/D072511I.b/icdg256.d

Report Date: 25-Jul-2011 15:11

TestAmerica Knoxville

Semivolatile Organic Compounds by GC/MS

Data file : /chem/gcms/md.i/D072511I.b/icdg256.d
 Lab Smp Id: ICDG256 Client Smp ID: STD005
 Inj Date : 25-JUL-2011 14:53
 Operator : 60841 Inst ID: md.i
 Smp Info : ICDG256,,1,6,,STD005
 Misc Info : D072511I,8270a9,8270dxnC13.sub
 Comment : Semivolatile Organic Compounds by GC/MS
 Method : /var/chem/gcms/md.i/D072511I.b/8270a9.m
 Meth Date : 25-Jul-2011 15:11 chemist Quant Type: ISTD
 Cal Date : 25-JUL-2011 14:53 Cal File: icdg256.d
 Als bottle: 1 Calibration Sample, Level: 6
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: 8270dxnC13.sub
 Target Version: 3.50
 Processing Host: qmidhp01

Concentration Formula: Amt * DF * Vt*Sf/Ws * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	1000.00000	Volume of final extract (uL) (1000 low, 2
Sf	1.00000	Prep Split Factor
Ws	30.00000	Weight of sample extracted (g)

Cpnd Variable

Local Compound Variable

Compounds	QUANT SIG	MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
							CAL-AMT	ON-COL
							(ng/uL)	(ng/uL)
* 1 1,4-Dichlorobenzene-d4		152	4.301	4.301	(1.000)	44160	20.0000	20.0
* 2 Naphthalene-d8		136	5.888	5.888	(1.000)	172766	20.0000	20.0
* 3 Acenaphthene-d10		164	8.485	8.485	(1.000)	103297	20.0000	20.0
* 4 Phenanthrene-d10		188	9.895	9.895	(1.000)	196861	20.0000	20.0
* 5 Chrysene-d12		240	11.928	11.928	(1.000)	214162	20.0000	20.0
* 6 Perylene-d12		264	13.861	13.861	(1.000)	184125	20.0000	20.0
\$ 7 2-Fluorophenol		112	3.132	3.132	(0.728)	11228	5.00000	4.60
\$ 8 Phenol-d5		99	3.931	3.931	(0.914)	13685	5.00000	4.68
\$ 9 Nitrobenzene-d5		82	4.930	4.930	(0.837)	12521	5.00000	4.55
\$ 10 2-Fluorobiphenyl		172	7.591	7.591	(0.895)	33910	5.00000	5.25
\$ 11 2,4,6-Tribromophenol		330	9.307	9.307	(0.941)	3465	5.00000	4.40
\$ 12 Terphenyl-d14		244	11.046	11.046	(0.926)	39923	5.00000	4.91
\$ 179 13C6-naphthalene		134	5.917	5.917	(1.005)	46222	5.00000	4.92
175 1,4-Dioxane		88	2.051	2.051	(0.477)	4625	5.00000	4.90

Data File: /chem/gcms/md.i/D072511I.b/icdg256.d

Report Date: 25-Jul-2011 15:11

Compounds	QUANT SIG					AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ng/uL)	ON-COL (ng/uL)
=====	=====	==	=====	=====	=====	=====	=====
13 N-Nitrosodimethylamine	74	2.209	2.209	(0.514)	6591	5.00000	4.78
14 Pyridine	79	2.251	2.251	(0.523)	12041	5.00000	5.01
15 Phenol (ccc)	94	3.943	3.943	(0.917)	14592	5.00000	4.85
16 Aniline	93	3.972	3.972	(0.924)	17767	5.00000	4.77
17 Bis(2-chloroethyl)ether	93	4.031	4.031	(0.937)	11563	5.00000	5.12
18 2-Chlorophenol	128	4.095	4.095	(0.952)	12927	5.00000	4.78
19 1,3-Dichlorobenzene	146	4.248	4.248	(0.988)	15592	5.00000	5.08
20 1,4-Dichlorobenzene (ccc)	146	4.319	4.319	(1.004)	16095	5.00000	5.13
21 Benzyl alcohol	108	4.436	4.436	(1.031)	8278	5.00000	4.66
22 1,2-Dichlorobenzene	146	4.483	4.483	(1.042)	15452	5.00000	5.12
23 2-Methylphenol	108	4.566	4.566	(1.061)	11061	5.00000	4.66
24 2,2'-Oxybis(1-Chloropropane)	45	4.595	4.595	(1.068)	22076	5.00000	5.13
25 4-Methylphenol	108	4.754	4.754	(1.105)	11282	5.00000	4.60
26 3&4 Methylphenol	108	4.754	4.754	(1.105)	11282	5.00000	4.60
27 N-Nitroso-di-n-propylamine###	70	4.748	4.748	(1.104)	8451	5.00000	4.69
28 Hexachloroethane	117	4.889	4.889	(1.137)	5949	5.00000	5.05
29 Nitrobenzene	77	4.953	4.953	(0.841)	13028	5.00000	4.83
30 Isophorone	82	5.271	5.271	(0.895)	20160	5.00000	4.54
31 2-Nitrophenol (ccc)	139	5.376	5.376	(0.913)	5353	5.00000	3.90
32 2,4-Dimethylphenol	107	5.447	5.447	(0.925)	12866	5.00000	4.44
33 Bis(2-chloroethoxy)methane	93	5.570	5.570	(0.946)	14219	5.00000	4.89
34 Benzoic acid	122	5.517	5.517	(0.937)	2735	5.00000	2.10
35 2,4-Dichlorophenol (ccc)	162	5.705	5.705	(0.969)	10389	5.00000	4.41
36 1,2,4-Trichlorobenzene	180	5.823	5.823	(0.989)	13817	5.00000	5.11
37 Naphthalene	128	5.917	5.917	(1.005)	41923	5.00000	5.07
38 4-Chloroaniline	127	6.005	6.005	(1.020)	15890	5.00000	4.62
39 Hexachlorobutadiene (ccc)	225	6.134	6.134	(1.042)	8960	5.00000	5.27
40 4-Chloro-3-methylphenol (ccc)	107	6.739	6.739	(1.145)	9292	5.00000	4.11
41 2-Methylnaphthalene	142	6.933	6.933	(1.178)	28602	5.00000	5.06
42 Hexachlorocyclopentadiene####	237	7.239	7.239	(0.853)	6682	5.00000	4.16
43 2,4,6-Trichlorophenol (ccc)	196	7.445	7.445	(0.877)	6854	5.00000	4.14
44 2,4,5-Trichlorophenol	196	7.503	7.503	(0.884)	7943	5.00000	4.27
45 2-Chloronaphthalene	162	7.744	7.744	(0.913)	27954	5.00000	5.07
46 2-Nitroaniline	65	7.909	7.909	(0.932)	5445	5.00000	3.63
47 Acenaphthylene	152	8.302	8.302	(0.979)	43576	5.00000	4.89
48 Dimethyl phthalate	163	8.197	8.197	(0.966)	38613	5.00000	5.66
49 2,6-Dinitrotoluene	165	8.249	8.249	(0.972)	6076	5.00000	4.24
50 3-Nitroaniline	138	8.449	8.449	(0.996)	6762	5.00000	4.10
51 Acenaphthene (ccc)	153	8.520	8.520	(1.004)	29665	5.00000	5.10
52 2,4-Dinitrophenol ##spcc##	184	8.573	8.573	(1.010)	1317	5.00000	1.54
53 Dibenzofuran	168	8.720	8.720	(1.028)	42428	5.00000	5.22
54 4-Nitrophenol ##spcc##	109	8.684	8.684	(1.024)	2734	5.00000	3.07
55 2,4-Dinitrotoluene	165	8.725	8.725	(1.028)	7413	5.00000	3.96
56 Fluorene	166	9.078	9.078	(1.070)	33471	5.00000	4.97
57 4-Chlorophenyl phenyl ether	204	9.096	9.096	(1.072)	16500	5.00000	5.07
58 Diethyl phthalate	149	9.007	9.007	(1.062)	55462	5.00000	6.99
59 4-Nitroaniline	138	9.101	9.101	(1.073)	7271	5.00000	4.22

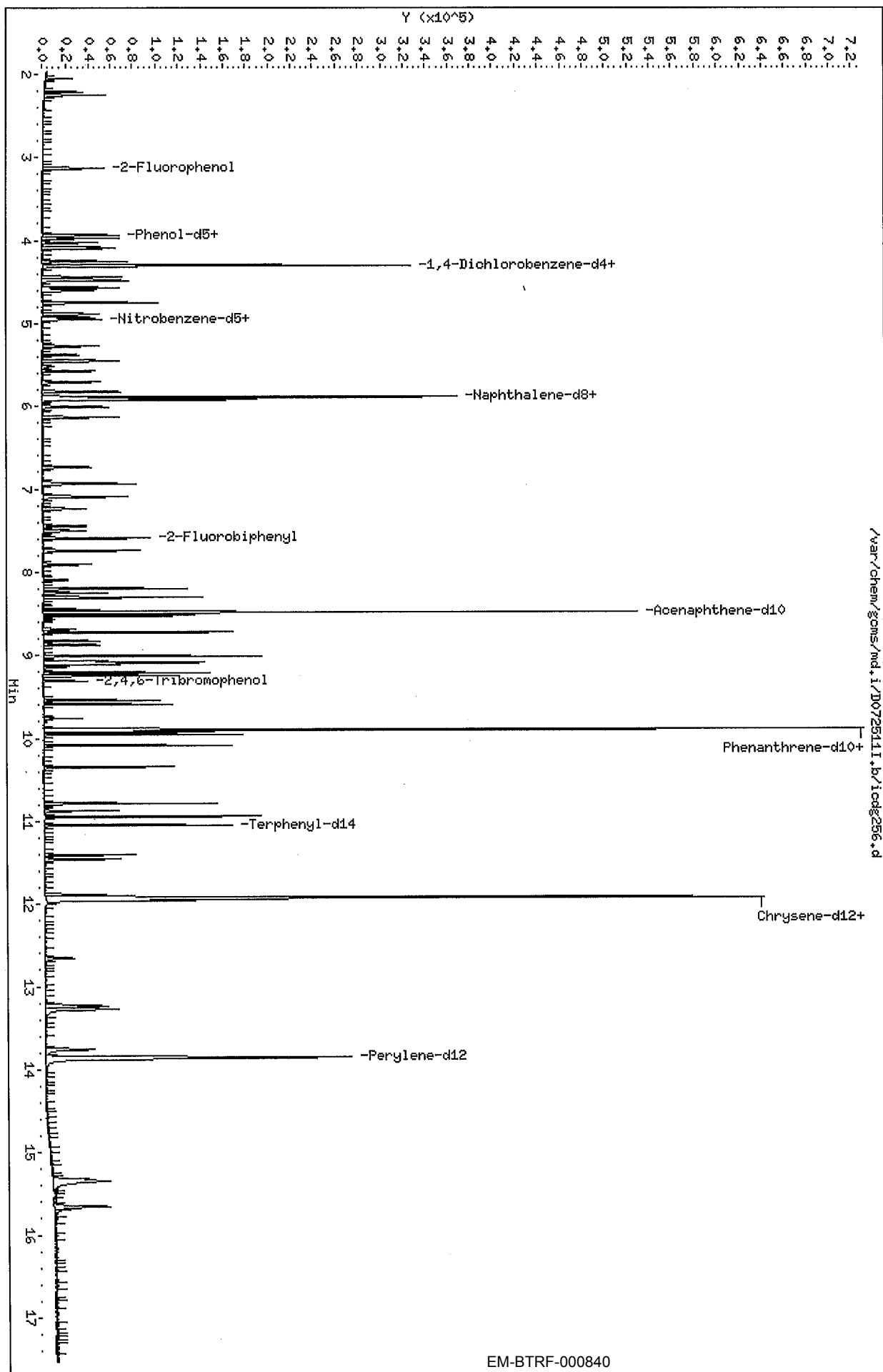
Data File: /chem/gcms/md.i/D072511I.b/icdg256.d

Report Date: 25-Jul-2011 15:11

Compounds	QUANT SIG					AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ng/uL)	ON-COL (ng/uL)
=====	=====	==	=====	=====	=====	=====	=====
60 4,6-Dinitro-2-methylphenol	198	9.143	9.143	(0.924)	2585	5.00000	2.34
61 N-Ndpa / diphenylamine (ccc)	169	9.207	9.207	(0.931)	28482	5.00000	5.02
62 1,2-Diphenylhydrazine/azobnz	77	9.242	9.242	(0.934)	29532	5.00000	5.04
63 4-Bromophenyl phenyl ether	248	9.536	9.536	(0.964)	9112	5.00000	4.98
64 Hexachlorobenzene	284	9.589	9.589	(0.969)	10266	5.00000	5.26
65 Pentachlorophenol (ccc)	266	9.760	9.760	(0.986)	3621	5.00000	2.70
66 Phenanthrene	178	9.912	9.912	(1.002)	56166	5.00000	5.37
67 Anthracene	178	9.953	9.953	(1.006)	50519	5.00000	4.86
68 Carbazole	167	10.083	10.083	(1.019)	44847	5.00000	4.80
69 Di-n-butyl phthalate	149	10.347	10.347	(1.046)	42276	5.00000	4.12
70 Fluoranthene (ccc)	202	10.788	10.788	(1.090)	51608	5.00000	4.62
71 Pyrene	202	10.941	10.941	(0.917)	62281	5.00000	5.06
72 Butyl benzyl phthalate	149	11.405	11.405	(0.956)	16243	5.00000	3.40
73 Benzo(a)Anthracene	228	11.916	11.916	(0.999)	50786	5.00000	4.68
74 3,3'-Dichlorobenzidine	252	11.881	11.881	(0.996)	12427	5.00000	3.14
75 Chrysene	228	11.951	11.951	(1.002)	58857	5.00000	5.26
76 Bis(2-ethylhexyl) phthalate	149	11.916	11.916	(0.999)	21700	5.00000	3.36
77 Di-n-octyl phthalate (ccc)	149	12.656	12.656	(0.913)	19483	5.00000	2.01
78 Benzo(b)fluoranthene	252	13.232	13.232	(0.955)	37573	5.00000	4.07
79 Benzo(k)fluoranthene	252	13.273	13.273	(0.958)	53055	5.00000	4.76
80 Benzo(a)pyrene (ccc)	252	13.761	13.761	(0.993)	32669	5.00000	3.59
81 Indeno(1,2,3-cd)pyrene	276	15.324	15.324	(1.106)	38549	5.00000	3.82
82 Dibenzo(a,h)anthracene	278	15.347	15.347	(1.107)	32657	5.00000	3.96
83 Benzo(g,h,i)perylene	276	15.653	15.653	(1.129)	37986	5.00000	4.27

Data File: /var/chem/gcms/md.i/D072511.b/iods256.d
 Date: 25-JUL-2011 14:53
 Client ID: STD005
 Sample Info: IODS256, 1,6, STD005
 Volume Injected (uL): 1.0
 Column phase: Rxi-5 Sil MS

Instrument: md.i
 Operator: 60841
 Column diameter: 0.25



Data File: /chem/gcms/md.i/D072511I.b/icdg251.d

Report Date: 25-Jul-2011 14:46

TestAmerica Knoxville

Semivolatile Organic Compounds by GC/MS

Data file : /chem/gcms/md.i/D072511I.b/icdg251.d
 Lab Smp Id: ICDG251 Client Smp ID: STD010
 Inj Date : 25-JUL-2011 14:28
 Operator : 60841 Inst ID: md.i
 Smp Info : ICDG251,,1,1,,STD010
 Misc Info : D072511I,8270a9,8270dxnC13.sub
 Comment : Semivolatile Organic Compounds by GC/MS
 Method : /var/chem/gcms/md.i/D072511I.b/8270a9.m
 Meth Date : 25-Jul-2011 14:46 chemist Quant Type: ISTD
 Cal Date : 25-JUL-2011 14:28 Cal File: icdg251.d
 Als bottle: 1 Calibration Sample, Level: 1
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: 8270dxnC13.sub
 Target Version: 3.50
 Processing Host: qmidhp01

Concentration Formula: Amt * DF * Vt*Sf/Ws * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	1000.00000	Volume of final extract (uL) (1000 low, 2
Sf	1.00000	Prep Split Factor
Ws	30.00000	Weight of sample extracted (g)

Cpnd Variable

Local Compound Variable

Compounds	QUANT	SIG	MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
								CAL-AMT (ng/uL)	ON-COL (ng/uL)
* 1 1,4-Dichlorobenzene-d4	152		4.301	4.301	(1.000)	48981	20.0000	20.0	
* 2 Naphthalene-d8	136		5.888	5.888	(1.000)	191701	20.0000	20.0	
* 3 Acenaphthene-d10	164		8.485	8.485	(1.000)	116990	20.0000	20.0	
* 4 Phenanthrene-d10	188		9.895	9.895	(1.000)	229569	20.0000	20.0	
* 5 Chrysene-d12	240		11.928	11.928	(1.000)	245479	20.0000	20.0	
* 6 Perylene-d12	264		13.855	13.855	(1.000)	211613	20.0000	20.0	
\$ 7 2-Fluorophenol	112		3.132	3.132	(0.728)	26202	10.0000	9.56	
\$ 8 Phenol-d5	99		3.931	3.931	(0.914)	31688	10.0000	9.67	
\$ 9 Nitrobenzene-d5	82		4.930	4.930	(0.837)	29932	10.0000	9.65	
\$ 10 2-Fluorobiphenyl	172		7.591	7.591	(0.895)	72338	10.0000	9.97	
\$ 11 2,4,6-Tribromophenol	330		9.307	9.307	(0.941)	7758	10.0000	8.28	
\$ 12 Terphenyl-d14	244		11.046	11.046	(0.926)	91150	10.0000	9.74	
\$ 179 13C6-naphthalene	134		5.917	5.917	(1.005)	108218	10.0000	10.4	
175 1,4-Dioxane	88		2.051	2.051	(0.477)	10663	10.0000	10.1	

Data File: /chem/gcms/md.i/D072511I.b/icdg251.d

Report Date: 25-Jul-2011 14:46

Compounds	QUANT SIG			RESPONSE	AMOUNTS	
	MASS	RT	EXP RT REL RT		CAL-AMT (ng/uL)	ON-COL (ng/uL)
=====	=====	==	=====	=====	=====	=====
13 N-Nitrosodimethylamine	74	2.209	2.209 (0.514)	15650	10.0000	10.2
14 Pyridine	79	2.245	2.245 (0.522)	26750	10.0000	10.0
15 Phenol (ccc)	94	3.943	3.943 (0.917)	33113	10.0000	9.88
16 Aniline	93	3.972	3.972 (0.924)	41544	10.0000	9.98
17 Bis(2-chloroethyl)ether	93	4.031	4.031 (0.937)	24795	10.0000	9.94
18 2-Chlorophenol	128	4.095	4.095 (0.952)	29106	10.0000	9.63
19 1,3-Dichlorobenzene	146	4.248	4.248 (0.988)	34737	10.0000	10.2
20 1,4-Dichlorobenzene (ccc)	146	4.319	4.319 (1.004)	35740	10.0000	10.3
21 Benzyl alcohol	108	4.436	4.436 (1.031)	18733	10.0000	9.41
22 1,2-Dichlorobenzene	146	4.483	4.483 (1.042)	35198	10.0000	10.6
23 2-Methylphenol	108	4.566	4.566 (1.061)	25489	10.0000	9.56
24 2,2'-Oxybis(1-Chloropropane)	45	4.595	4.595 (1.068)	49879	10.0000	10.5
25 4-Methylphenol	108	4.748	4.748 (1.104)	26570	10.0000	9.65
26 3&4 Methylphenol	108	4.748	4.748 (1.104)	26570	10.0000	9.65
27 N-Nitroso-di-n-propylamine###	70	4.748	4.748 (1.104)	19619	10.0000	9.71
28 Hexachloroethane	117	4.883	4.883 (1.135)	13130	10.0000	10.1
29 Nitrobenzene	77	4.953	4.953 (0.841)	29669	10.0000	9.86
30 Isophorone	82	5.265	5.265 (0.894)	47532	10.0000	9.51
31 2-Nitrophenol (ccc)	139	5.370	5.370 (0.912)	13657	10.0000	8.66
32 2,4-Dimethylphenol	107	5.447	5.447 (0.925)	31316	10.0000	9.56
33 Bis(2-chloroethoxy)methane	93	5.570	5.570 (0.946)	31752	10.0000	9.80
34 Benzoic acid	122	5.529	5.529 (0.939)	9056	10.0000	6.27
35 2,4-Dichlorophenol (ccc)	162	5.705	5.705 (0.969)	25054	10.0000	9.40
36 1,2,4-Trichlorobenzene	180	5.823	5.823 (0.989)	29606	10.0000	9.90
37 Naphthalene	128	5.917	5.917 (1.005)	93344	10.0000	10.2
38 4-Chloroaniline	127	6.005	6.005 (1.020)	37447	10.0000	9.69
39 Hexachlorobutadiene (ccc)	225	6.128	6.128 (1.041)	18386	10.0000	9.83
40 4-Chloro-3-methylphenol (ccc)	107	6.734	6.734 (1.144)	23417	10.0000	9.07
41 2-Methylnaphthalene	142	6.933	6.933 (1.178)	62380	10.0000	9.97
42 Hexachlorocyclopentadiene####	237	7.239	7.239 (0.853)	16068	10.0000	8.59
43 2,4,6-Trichlorophenol (ccc)	196	7.445	7.445 (0.877)	16878	10.0000	8.76
44 2,4,5-Trichlorophenol	196	7.503	7.503 (0.884)	19427	10.0000	9.00
45 2-Chloronaphthalene	162	7.744	7.744 (0.913)	60724	10.0000	9.74
46 2-Nitroaniline	65	7.909	7.909 (0.932)	15482	10.0000	8.72
47 Acenaphthylene	152	8.308	8.308 (0.979)	100086	10.0000	9.88
48 Dimethyl phthalate	163	8.197	8.197 (0.966)	80709	10.0000	10.7
49 2,6-Dinitrotoluene	165	8.250	8.250 (0.972)	15069	10.0000	9.06
50 3-Nitroaniline	138	8.449	8.449 (0.996)	16954	10.0000	9.07
51 Acenaphthene (ccc)	153	8.520	8.520 (1.004)	65575	10.0000	10.0
52 2,4-Dinitrophenol ##spcc##	184	8.573	8.573 (1.010)	4727	10.0000	4.88
53 Dibenzofuran	168	8.720	8.720 (1.028)	92610	10.0000	10.1
54 4-Nitrophenol ##spcc##	109	8.684	8.684 (1.024)	7974	10.0000	7.90
55 2,4-Dinitrotoluene	165	8.725	8.725 (1.028)	20031	10.0000	9.12
56 Fluorene	166	9.078	9.078 (1.070)	75538	10.0000	9.90
57 4-Chlorophenyl phenyl ether	204	9.096	9.096 (1.072)	37932	10.0000	10.3
58 Diethyl phthalate	149	9.007	9.007 (1.062)	102902	10.0000	12.3
59 4-Nitroaniline	138	9.101	9.101 (1.073)	18441	10.0000	9.45

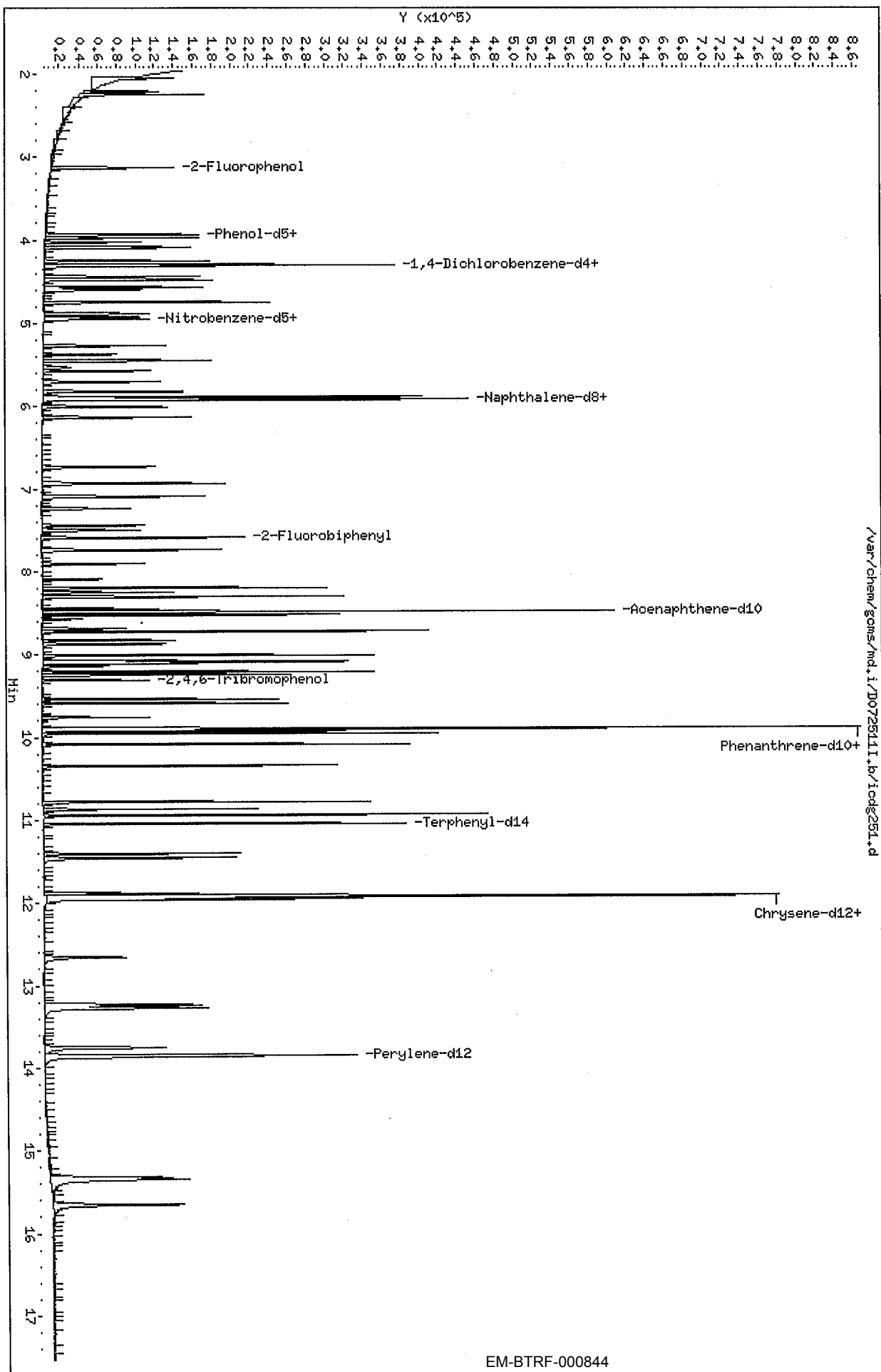
Data File: /chem/gcms/md.i/D072511I.b/icdg251.d

Report Date: 25-Jul-2011 14:46

Compounds	QUANT SIG					AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ng/uL)	ON-COL (ng/uL)
=====	=====	==	=====	=====	=====	=====	=====
60 4,6-Dinitro-2-methylphenol	198	9.143	9.143	(0.924)	8068	10.0000	6.26
61 N-Ndpa / diphenylamine (ccc)	169	9.207	9.207	(0.931)	63362	10.0000	9.59
62 1,2-Diphenylhydrazine/azobnz	77	9.242	9.242	(0.934)	66719	10.0000	9.77
63 4-Bromophenyl phenyl ether	248	9.536	9.536	(0.964)	20952	10.0000	9.81
64 Hexachlorobenzene	284	9.589	9.589	(0.969)	22256	10.0000	9.86
65 Pentachlorophenol (ccc)	266	9.760	9.760	(0.986)	11281	10.0000	7.20
66 Phenanthrene	178	9.912	9.912	(1.002)	121426	10.0000	10.1
67 Anthracene	178	9.953	9.953	(1.006)	117017	10.0000	9.61
68 Carbazole	167	10.083	10.083	(1.019)	107048	10.0000	9.77
69 Di-n-butyl phthalate	149	10.347	10.347	(1.046)	106062	10.0000	8.60
70 Fluoranthene (ccc)	202	10.788	10.788	(1.090)	123775	10.0000	9.39
71 Pyrene	202	10.941	10.941	(0.917)	137981	10.0000	9.79
72 Butyl benzyl phthalate	149	11.405	11.405	(0.956)	48034	10.0000	8.33
73 Benzo(a)Anthracene	228	11.916	11.916	(0.999)	120274	10.0000	9.58
74 3,3'-Dichlorobenzidine	252	11.881	11.881	(0.996)	34629	10.0000	7.64
75 Chrysene	228	11.951	11.951	(1.002)	129663	10.0000	10.2
76 Bis(2-ethylhexyl) phthalate	149	11.910	11.910	(0.999)	64113	10.0000	8.21
77 Di-n-octyl phthalate (ccc)	149	12.656	12.656	(0.913)	71984	10.0000	6.46
78 Benzo(b)fluoranthene	252	13.232	13.232	(0.955)	96211	10.0000	8.79
79 Benzo(k)fluoranthene	252	13.273	13.273	(0.958)	132458	10.0000	10.3
80 Benzo(a)pyrene (ccc)	252	13.755	13.755	(0.993)	95297	10.0000	8.70
81 Indeno(1,2,3-cd)pyrene	276	15.318	15.318	(1.106)	106255	10.0000	8.81
82 Dibenz(a,h)anthracene	278	15.347	15.347	(1.108)	89649	10.0000	9.13
83 Benzo(g,h,i)perylene	276	15.647	15.647	(1.129)	100244	10.0000	9.56

Data File: /var/chem/gcms/md.i/D0725111.b/iod251.d
Date: 25-JUL-2011 14:28
Client ID: STD010
Sample Info: IOD251,1,1,STD010
Volume Injected (uL): 1.0
Column Phase: Rxi-5 Sil MS

Instrument: md.i
Operator: 60841
Column diameter: 0.25



Data File: /var/chem/gcms/md.i/D072511I.b/icdg252.d

Report Date: 25-Jul-2011 14:24

TestAmerica Knoxville

Semivolatile Organic Compounds by GC/MS

Data file : /var/chem/gcms/md.i/D072511I.b/icdg252.d
 Lab Smp Id: ICDG252 Client Smp ID: STD025
 Inj Date : 25-JUL-2011 14:02
 Operator : 60841 Inst ID: md.i
 Smp Info : ICDG252,,1,2,,STD025
 Misc Info : D072511I,8270a9,8270dxnC13.sub
 Comment : Semivolatile Organic Compounds by GC/MS
 Method : /var/chem/gcms/md.i/D072511I.b/8270a9.m
 Meth Date : 25-Jul-2011 14:24 mcgeek Quant Type: ISTD
 Cal Date : 25-JUL-2011 14:02 Cal File: icdg252.d
 Als bottle: 1 Calibration Sample, Level: 2
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: 8270dxnC13.sub
 Target Version: 3.50
 Processing Host: qmidhp01

Concentration Formula: Amt * DF * Vt*Sf/Ws * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	1000.00000	Volume of final extract (uL) (1000 low, 2
Sf	1.00000	Prep Split Factor
Ws	30.00000	Weight of sample extracted (g)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG	MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
							CAL-AMT (ng/uL)	ON-COL (ng/uL)
* 1 1,4-Dichlorobenzene-d4	=====	152	4.301	4.301	(1.000)	54061	20.0000	20.0
* 2 Naphthalene-d8	=====	136	5.888	5.888	(1.000)	211682	20.0000	20.0
* 3 Acenaphthene-d10	=====	164	8.485	8.485	(1.000)	128067	20.0000	20.0
* 4 Phenanthrene-d10	=====	188	9.895	9.895	(1.000)	236358	20.0000	20.0
* 5 Chrysene-d12	=====	240	11.928	11.928	(1.000)	253168	20.0000	20.0
* 6 Perylene-d12	=====	264	13.855	13.855	(1.000)	229844	20.0000	20.0
\$ 7 2-Fluorophenol	=====	112	3.132	3.132	(0.728)	66718	25.0000	21.9
\$ 8 Phenol-d5	=====	99	3.931	3.931	(0.914)	79960	25.0000	22.0
\$ 9 Nitrobenzene-d5	=====	82	4.930	4.930	(0.837)	76444	25.0000	22.2
\$ 10 2-Fluorobiphenyl	=====	172	7.591	7.591	(0.895)	182582	25.0000	23.0
\$ 11 2,4,6-Tribromophenol	=====	330	9.307	9.307	(0.941)	22058	25.0000	22.1
\$ 12 Terphenyl-d14	=====	244	11.046	11.046	(0.926)	222612	25.0000	23.0
\$ 179 13C6-naphthalene	=====	134	5.917	5.917	(1.005)	283367	25.0000	24.8
175 1,4-Dioxane	=====	88	2.051	2.051	(0.477)	28272	25.0000	24.4

Data File: /var/chem/gcms/md.i/D072511I.b/icdg252.d
Report Date: 25-Jul-2011 14:24

Compounds	QUANT SIG					AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ng/uL)	ON-COL (ng/uL)
=====	=====	==	=====	=====	=====	=====	=====
13 N-Nitrosodimethylamine	74	2.209	2.209	(0.514)	37695	25.0000	22.2
14 Pyridine	79	2.245	2.245	(0.522)	65580	25.0000	22.3
15 Phenol (ccc)	94	3.943	3.943	(0.917)	81663	25.0000	22.0
16 Aniline	93	3.972	3.972	(0.924)	102542	25.0000	22.3
17 Bis(2-chloroethyl)ether	93	4.031	4.031	(0.937)	62945	25.0000	22.8
18 2-Chlorophenol	128	4.095	4.095	(0.952)	75854	25.0000	22.6
19 1,3-Dichlorobenzene	146	4.248	4.248	(0.988)	85423	25.0000	22.9
20 1,4-Dichlorobenzene (ccc)	146	4.319	4.319	(1.004)	86922	25.0000	22.9
21 Benzyl alcohol	108	4.436	4.436	(1.031)	49117	25.0000	22.1
22 1,2-Dichlorobenzene	146	4.483	4.483	(1.042)	83354	25.0000	22.9
23 2-Methylphenol	108	4.566	4.566	(1.061)	66539	25.0000	22.4
24 2,2'-Oxybis(1-Chloropropane)	45	4.595	4.595	(1.068)	122656	25.0000	23.6
25 4-Methylphenol	108	4.754	4.754	(1.105)	68291	25.0000	22.3
26 3&4 Methylphenol	108	4.754	4.754	(1.105)	68291	25.0000	22.3
27 N-Nitroso-di-n-propylamine###	70	4.748	4.748	(1.104)	51043	25.0000	22.8
28 Hexachloroethane	117	4.883	4.883	(1.135)	32912	25.0000	22.9
29 Nitrobenzene	77	4.953	4.953	(0.841)	75858	25.0000	22.8
30 Isophorone	82	5.265	5.265	(0.894)	123889	25.0000	22.2
31 2-Nitrophenol (ccc)	139	5.376	5.376	(0.913)	37563	25.0000	21.0
32 2,4-Dimethylphenol	107	5.447	5.447	(0.925)	81109	25.0000	22.2
33 Bis(2-chloroethoxy)methane	93	5.570	5.570	(0.946)	83057	25.0000	23.1
34 Benzoic acid	122	5.553	5.553	(0.943)	28903	25.0000	18.1 (H)
35 2,4-Dichlorophenol (ccc)	162	5.705	5.705	(0.969)	65782	25.0000	22.1
36 1,2,4-Trichlorobenzene	180	5.823	5.823	(0.989)	76446	25.0000	23.1
37 Naphthalene	128	5.917	5.917	(1.005)	228933	25.0000	22.8
38 4-Chloroaniline	127	5.999	5.999	(1.019)	97087	25.0000	22.6
39 Hexachlorobutadiene (ccc)	225	6.128	6.128	(1.041)	48335	25.0000	23.3
40 4-Chloro-3-methylphenol (ccc)	107	6.734	6.734	(1.144)	63280	25.0000	21.8
41 2-Methylnaphthalene	142	6.933	6.933	(1.178)	156886	25.0000	22.7
42 Hexachlorocyclopentadiene####	237	7.239	7.239	(0.853)	43552	25.0000	20.7
43 2,4,6-Trichlorophenol (ccc)	196	7.445	7.445	(0.877)	47298	25.0000	21.9
44 2,4,5-Trichlorophenol	196	7.503	7.503	(0.884)	53126	25.0000	22.0
45 2-Chloronaphthalene	162	7.744	7.744	(0.913)	154945	25.0000	22.6
46 2-Nitroaniline	65	7.909	7.909	(0.932)	41828	25.0000	21.0
47 Acenaphthylene	152	8.308	8.308	(0.979)	249490	25.0000	22.4
48 Dimethyl phthalate	163	8.203	8.203	(0.967)	187408	25.0000	23.0
49 2,6-Dinitrotoluene	165	8.249	8.249	(0.972)	40628	25.0000	21.9
50 3-Nitroaniline	138	8.449	8.449	(0.996)	45403	25.0000	21.8
51 Acenaphthene (ccc)	153	8.520	8.520	(1.004)	163904	25.0000	22.8
52 2,4-Dinitrophenol ##spcc##	184	8.573	8.573	(1.010)	16981	25.0000	16.0
53 Dibenzofuran	168	8.720	8.720	(1.028)	227891	25.0000	22.8
54 4-Nitrophenol ##spcc##	109	8.684	8.684	(1.024)	23442	25.0000	20.4
55 2,4-Dinitrotoluene	165	8.725	8.725	(1.028)	52934	25.0000	21.6
56 Fluorene	166	9.078	9.078	(1.070)	186532	25.0000	22.3
57 4-Chlorophenyl phenyl ether	204	9.096	9.096	(1.072)	91557	25.0000	22.9
58 Diethyl phthalate	149	9.007	9.007	(1.062)	210858	25.0000	24.0
59 4-Nitroaniline	138	9.107	9.107	(1.073)	46510	25.0000	21.5

Data File: /var/chem/gcms/md.i/D072511I.b/icdg252.d

Report Date: 25-Jul-2011 14:24

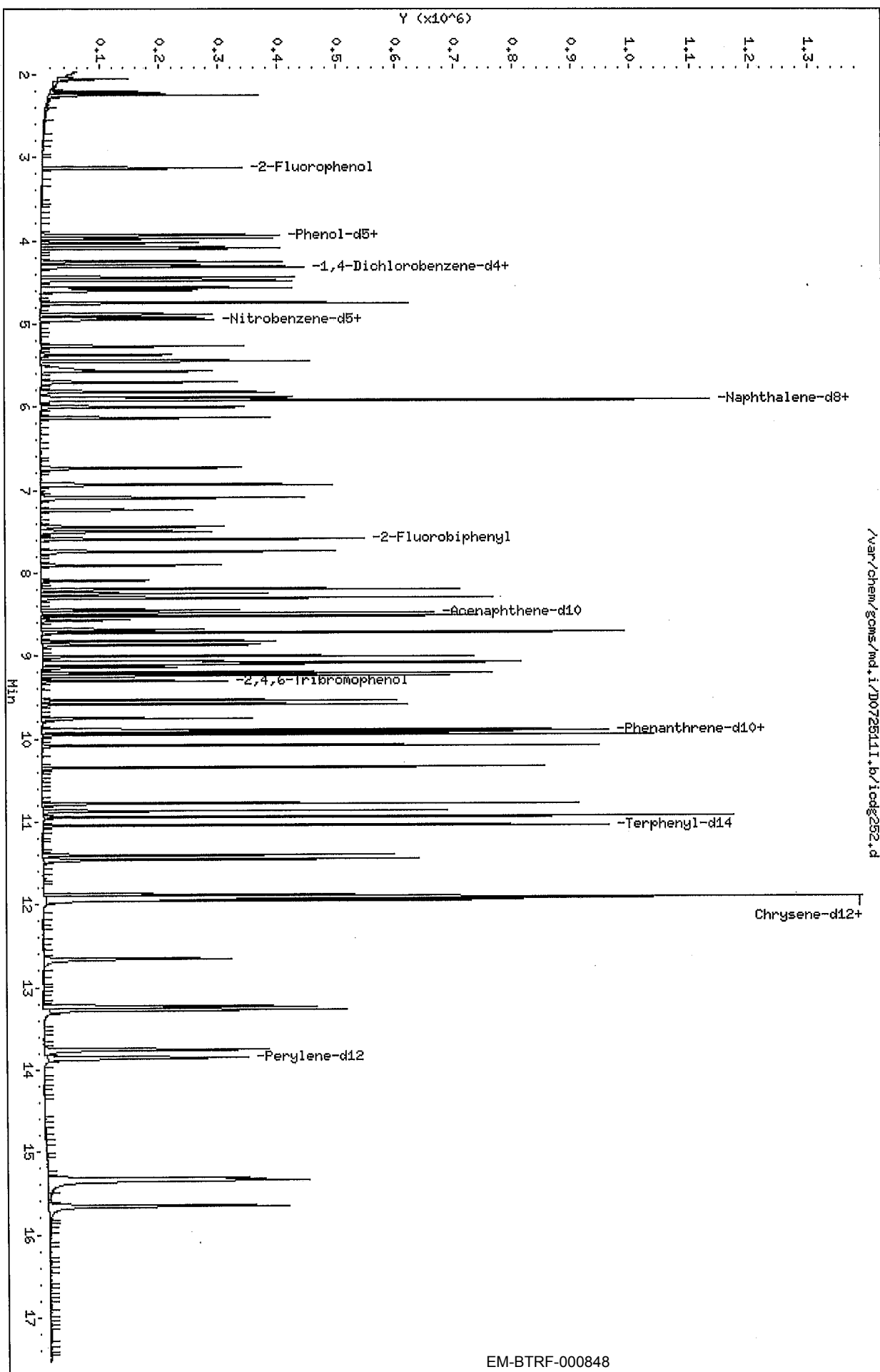
Compounds	QUANT SIG					AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ng/uL)	ON-COL (ng/uL)
=====	=====	==	=====	=====	=====	=====	=====
60 4,6-Dinitro-2-methylphenol	198	9.143	9.143	(0.924)	27872	25.0000	19.6
61 N-Mdpa / diphenylamine (ccc)	169	9.207	9.207	(0.931)	161201	25.0000	23.5
62 1,2-Diphenylhydrazine/azobnz	77	9.242	9.242	(0.934)	165484	25.0000	23.4
63 4-Bromophenyl phenyl ether	248	9.536	9.536	(0.964)	49654	25.0000	22.5
64 Hexachlorobenzene	284	9.589	9.589	(0.969)	54349	25.0000	23.3
65 Pentachlorophenol (ccc)	266	9.760	9.760	(0.986)	34447	25.0000	20.2
66 Phenanthrene	178	9.912	9.912	(1.002)	287991	25.0000	23.3
67 Anthracene	178	9.953	9.953	(1.006)	287011	25.0000	22.7
68 Carbazole	167	10.083	10.083	(1.019)	258805	25.0000	22.8
69 Di-n-butyl phthalate	149	10.347	10.347	(1.046)	289844	25.0000	22.2
70 Fluoranthene (ccc)	202	10.788	10.788	(1.090)	308337	25.0000	22.4
71 Pyrene	202	10.941	10.941	(0.917)	335121	25.0000	23.0
72 Butyl benzyl phthalate	149	11.405	11.405	(0.956)	129480	25.0000	21.1
73 Benzo(a)Anthracene	228	11.916	11.916	(0.999)	299896	25.0000	23.0
74 3,3'-Dichlorobenzidine	252	11.881	11.881	(0.996)	104988	25.0000	21.4
75 Chrysene	228	11.951	11.951	(1.002)	307759	25.0000	23.6
76 Bis(2-ethylhexyl) phthalate	149	11.910	11.910	(0.999)	179215	25.0000	21.5
77 Di-n-octyl phthalate (ccc)	149	12.656	12.656	(0.913)	243024	25.0000	18.8
78 Benzo(b)fluoranthene	252	13.232	13.232	(0.955)	267692	25.0000	22.0
79 Benzo(k)fluoranthene	252	13.273	13.273	(0.958)	322464	25.0000	23.2
80 Benzo(a)pyrene (ccc)	252	13.761	13.761	(0.993)	262635	25.0000	21.5
81 Indeno(1,2,3-cd)pyrene	276	15.324	15.324	(1.106)	294545	25.0000	22.0
82 Dibenz(a,h)anthracene	278	15.347	15.347	(1.108)	244467	25.0000	22.5
83 Benzo(g,h,i)perylene	276	15.653	15.653	(1.130)	260454	25.0000	22.7

QC Flag Legend

H - Operator selected an alternate compound hit.

Data File: /var/chem/gcms/md.i/D072511.i.b/1cdg252.d
 Date: 25-JUL-2011 14:02
 Client ID: STD025
 Sample Info: ICDG252, 1,2, STD025
 Volume Injected (uL): 1.0
 Column phase: Rx1-5 Sil MS

Instrument: md.i
 Operator: 60841
 Column diameter: 0.25



Data File: /var/chem/gcms/md.i/D072511I.b/icdg253.d

Report Date: 25-Jul-2011 14:22

TestAmerica Knoxville

Semivolatile Organic Compounds by GC/MS

Data file : /var/chem/gcms/md.i/D072511I.b/icdg253.d
 Lab Smp Id: ICDG253 Client Smp ID: STD040
 Inj Date : 25-JUL-2011 13:37
 Operator : 60841 Inst ID: md.i
 Smp Info : ICDG253,,1,3,,STD040
 Misc Info : D072511I,8270a9,8270dxnC13.sub
 Comment : Semivolatile Organic Compounds by GC/MS
 Method : /var/chem/gcms/md.i/D072511I.b/8270a9.m
 Meth Date : 25-Jul-2011 14:22 mcgeek Quant Type: ISTD
 Cal Date : 25-JUL-2011 13:37 Cal File: icdg253.d
 Als bottle: 1 Calibration Sample, Level: 3
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: 8270dxnC13.sub
 Target Version: 3.50
 Processing Host: qmidhp01

Concentration Formula: Amt * DF * Vt*Sf/Ws * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	1000.00000	Volume of final extract (uL) (1000 low, 2
Sf	1.00000	Prep Split Factor
Ws	30.00000	Weight of sample extracted (g)

Cpnd Variable

Local Compound Variable

Compounds	QUANT	SIG	MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
								CAL-AMT (ng/uL)	ON-COL (ng/uL)
* 1 1,4-Dichlorobenzene-d4	152		4.301	4.301	(1.000)	50909	20.0000	20.0	
* 2 Naphthalene-d8	136		5.893	5.893	(1.000)	199442	20.0000	20.0	
* 3 Acenaphthene-d10	164		8.484	8.484	(1.000)	118840	20.0000	20.0	
* 4 Phenanthrene-d10	188		9.894	9.894	(1.000)	226196	20.0000	20.0	
* 5 Chrysene-d12	240		11.927	11.927	(1.000)	243832	20.0000	20.0	
* 6 Perylene-d12	264		13.860	13.860	(1.000)	219402	20.0000	20.0	
\$ 7 2-Fluorophenol	112		3.132	3.132	(0.728)	114030	40.0000	39.7	
\$ 8 Phenol-d5	99		3.931	3.931	(0.914)	136191	40.0000	39.7	
\$ 9 Nitrobenzene-d5	82		4.930	4.930	(0.836)	128643	40.0000	39.6	
\$ 10 2-Fluorobiphenyl	172		7.591	7.591	(0.895)	289454	40.0000	39.2	
\$ 11 2,4,6-Tribromophenol	330		9.307	9.307	(0.941)	37302	40.0000	39.0	
\$ 12 Terphenyl-d14	244		11.046	11.046	(0.926)	365028	40.0000	39.1	
\$ 179 13C6-naphthalene	134		5.917	5.917	(1.004)	436148	40.0000	40.5	
175 1,4-Dioxane	88		2.051	2.051	(0.477)	110748	100.000	102	

Data File: /var/chem/gcms/md.i/D072511I.b/icdg253.d
 Report Date: 25-Jul-2011 14:22

Compounds	QUANT SIG					AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ng/uL)	ON-COL (ng/uL)
=====	=====	==	=====	=====	=====	=====	=====
13 N-Nitrosodimethylamine	74	2.209	2.209	(0.514)	63770	40.0000	40.0
14 Pyridine	79	2.244	2.244	(0.522)	108645	40.0000	39.2
15 Phenol (ccc)	94	3.948	3.948	(0.918)	138049	40.0000	39.5
16 Aniline	93	3.972	3.972	(0.923)	171401	40.0000	39.6
17 Bis(2-chloroethyl)ether	93	4.031	4.031	(0.937)	102405	40.0000	39.5
18 2-Chlorophenol	128	4.095	4.095	(0.952)	126192	40.0000	39.9
19 1,3-Dichlorobenzene	146	4.248	4.248	(0.988)	138453	40.0000	39.4
20 1,4-Dichlorobenzene (ccc)	146	4.319	4.319	(1.004)	141755	40.0000	39.6
21 Benzyl alcohol	108	4.436	4.436	(1.031)	81230	40.0000	38.8
22 1,2-Dichlorobenzene	146	4.483	4.483	(1.042)	135326	40.0000	39.5
23 2-Methylphenol	108	4.565	4.565	(1.061)	110903	40.0000	39.7
24 2,2'-Oxybis(1-Chloropropane)	45	4.595	4.595	(1.068)	194707	40.0000	39.8
25 4-Methylphenol	108	4.753	4.753	(1.105)	113591	40.0000	39.4
26 3&4 Methylphenol	108	4.753	4.753	(1.105)	113591	40.0000	39.4
27 N-Nitroso-di-n-propylamine###	70	4.747	4.747	(1.104)	82483	40.0000	39.1
28 Hexachloroethane	117	4.883	4.883	(1.135)	53390	40.0000	39.5
29 Nitrobenzene	77	4.953	4.953	(0.840)	122476	40.0000	39.0
30 Isophorone	82	5.270	5.270	(0.894)	205507	40.0000	39.2
31 2-Nitrophenol (ccc)	139	5.376	5.376	(0.912)	65620	40.0000	39.0
32 2,4-Dimethylphenol	107	5.453	5.453	(0.925)	135562	40.0000	39.4
33 Bis(2-chloroethoxy)methane	93	5.570	5.570	(0.945)	133536	40.0000	39.4
34 Benzoic acid	122	5.570	5.570	(0.945)	56722	40.0000	44.0 (H)
35 2,4-Dichlorophenol (ccc)	162	5.705	5.705	(0.968)	111873	40.0000	39.9
36 1,2,4-Trichlorobenzene	180	5.823	5.823	(0.988)	122309	40.0000	39.2
37 Naphthalene	128	5.923	5.923	(1.005)	374884	40.0000	39.6
38 4-Chloroaniline	127	6.005	6.005	(1.019)	157769	40.0000	39.0
39 Hexachlorobutadiene (ccc)	225	6.134	6.134	(1.041)	75141	40.0000	38.5
40 4-Chloro-3-methylphenol (ccc)	107	6.733	6.733	(1.143)	106738	40.0000	39.0
41 2-Methylnaphthalene	142	6.933	6.933	(1.176)	255483	40.0000	39.2
42 Hexachlorocyclopentadiene####	237	7.239	7.239	(0.853)	73476	40.0000	37.6
43 2,4,6-Trichlorophenol (ccc)	196	7.444	7.444	(0.877)	77511	40.0000	38.6
44 2,4,5-Trichlorophenol	196	7.497	7.497	(0.884)	86871	40.0000	38.8
45 2-Chloronaphthalene	162	7.744	7.744	(0.913)	251581	40.0000	39.5
46 2-Nitroaniline	65	7.909	7.909	(0.932)	72041	40.0000	38.9
47 Acenaphthylene	152	8.308	8.308	(0.979)	408840	40.0000	39.6
48 Dimethyl phthalate	163	8.202	8.202	(0.967)	302095	40.0000	39.9 (H)
49 2,6-Dinitrotoluene	165	8.249	8.249	(0.972)	67681	40.0000	39.3
50 3-Nitroaniline	138	8.449	8.449	(0.996)	75684	40.0000	39.1
51 Acenaphthene (ccc)	153	8.525	8.525	(1.005)	262256	40.0000	39.4
52 2,4-Dinitrophenol ##spcc##	184	8.572	8.572	(1.010)	34091	40.0000	34.6
53 Dibenzofuran	168	8.719	8.719	(1.028)	368493	40.0000	39.8
54 4-Nitrophenol ##spcc##	109	8.684	8.684	(1.024)	40004	40.0000	37.5
55 2,4-Dinitrotoluene	165	8.725	8.725	(1.028)	87303	40.0000	38.5
56 Fluorene	166	9.078	9.078	(1.070)	303132	40.0000	39.0
57 4-Chlorophenyl phenyl ether	204	9.095	9.095	(1.072)	145534	40.0000	39.2
58 Diethyl phthalate	149	9.007	9.007	(1.062)	330085	40.0000	40.6
59 4-Nitroaniline	138	9.107	9.107	(1.073)	77744	40.0000	38.8

Data File: /var/chem/gcms/md.i/D072511I.b/icdg253.d
 Report Date: 25-Jul-2011 14:22

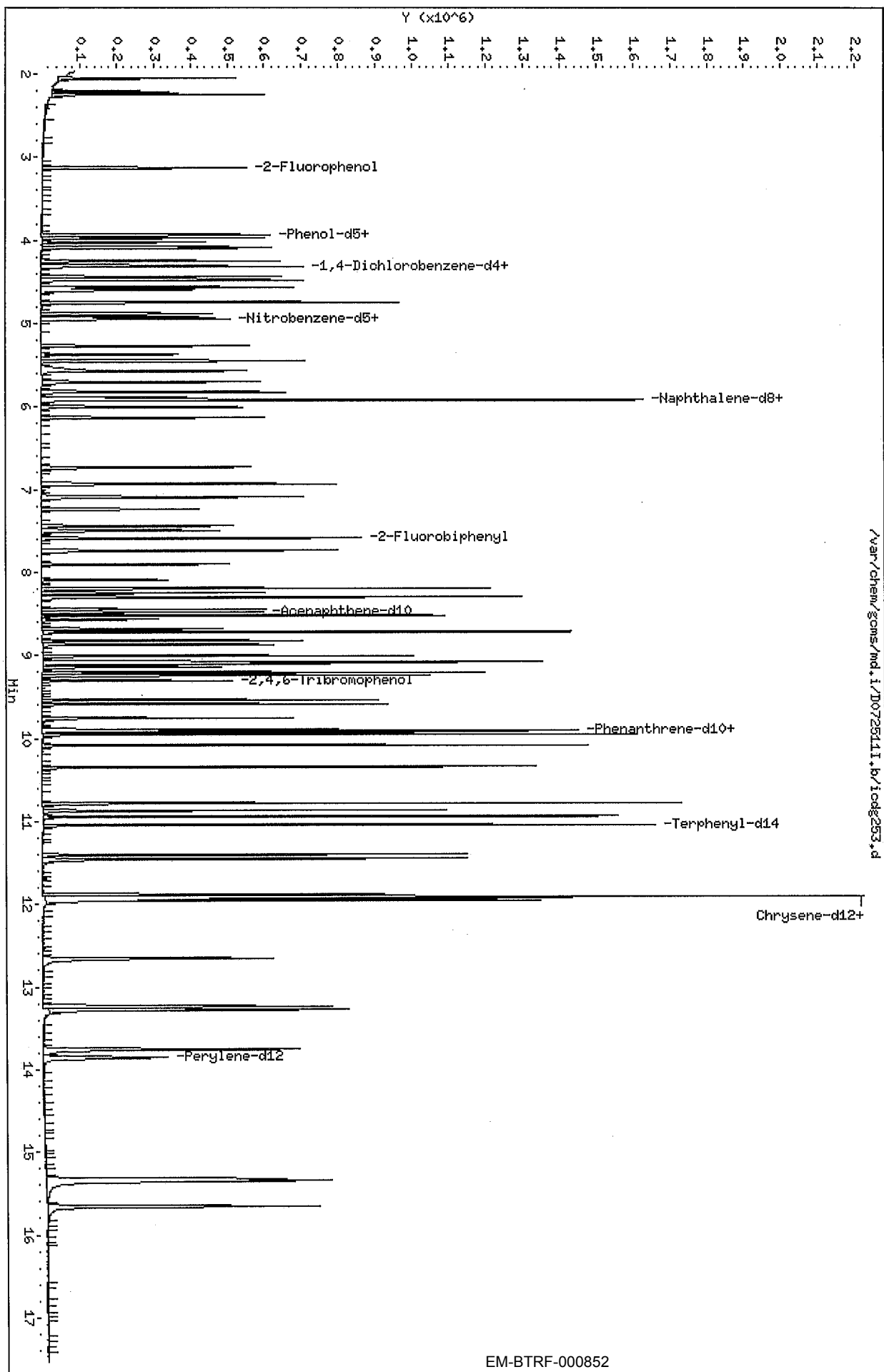
Compounds	QUANT SIG					AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ng/uL)	ON-COL (ng/uL)
=====	=====	==	=====	=====	=====	=====	=====
60 4,6-Dinitro-2-methylphenol	198	9.142	9.142	(0.924)	48383	40.0000	35.5
61 N-Ndpa / diphenylamine (ccc)	169	9.213	9.213	(0.931)	256268	40.0000	39.0
62 1,2-Diphenylhydrazine/azobnz	77	9.242	9.242	(0.934)	267862	40.0000	39.6
63 4-Bromophenyl phenyl ether	248	9.542	9.542	(0.964)	83444	40.0000	39.5
64 Hexachlorobenzene	284	9.589	9.589	(0.969)	87028	40.0000	39.0
65 Pentachlorophenol (ccc)	266	9.759	9.759	(0.986)	63402	40.0000	38.9
66 Phenanthrene	178	9.912	9.912	(1.002)	469947	40.0000	39.7
67 Anthracene	178	9.953	9.953	(1.006)	473393	40.0000	39.2
68 Carbazole	167	10.082	10.082	(1.019)	428746	40.0000	39.5
69 Di-n-butyl phthalate	149	10.347	10.347	(1.046)	489002	40.0000	39.2
70 Fluoranthene (ccc)	202	10.788	10.788	(1.090)	517134	40.0000	39.4
71 Pyrene	202	10.946	10.946	(0.918)	551039	40.0000	39.2
72 Butyl benzyl phthalate	149	11.405	11.405	(0.956)	227133	40.0000	38.4
73 Benzo(a)Anthracene	228	11.916	11.916	(0.999)	498260	40.0000	39.6
74 3,3'-Dichlorobenzidine	252	11.880	11.880	(0.996)	178706	40.0000	37.9
75 Chrysene	228	11.957	11.957	(1.002)	493171	40.0000	39.2
76 Bis(2-ethylhexyl) phthalate	149	11.916	11.916	(0.999)	309158	40.0000	38.5
77 Di-n-octyl phthalate (ccc)	149	12.656	12.656	(0.913)	454474	40.0000	36.8
78 Benzo(b)fluoranthene	252	13.238	13.238	(0.955)	446105	40.0000	38.4
79 Benzo(k)fluoranthene	252	13.279	13.279	(0.958)	538417	40.0000	40.5
80 Benzo(a)pyrene (ccc)	252	13.761	13.761	(0.993)	453830	40.0000	38.9
81 Indeno(1,2,3-cd)pyrene	276	15.329	15.329	(1.106)	501005	40.0000	39.2
82 Dibenz(a,h)anthracene	278	15.353	15.353	(1.108)	407765	40.0000	39.4
83 Benzo(g,h,i)perylene	276	15.658	15.658	(1.130)	429141	40.0000	39.1

QC Flag Legend

H - Operator selected an alternate compound hit.

Data File: /var/chem/gcms/md.i/D0725111.b/iodg253.d
 Date: 25-JUL-2011 13:37
 Client ID: STD040
 Sample Info: IODG253, 1,3, STD040
 Volume Injected (uL): 1.0
 Column phase: Rxi-5 Sil MS

Instrument: md.i
 Operator: 60841
 Column diameter: 0.25



Data File: /var/chem/gcms/md.i/D072511I.b/icdg254.d

Report Date: 25-Jul-2011 13:33

TestAmerica Knoxville

Semivolatile Organic Compounds by GC/MS

Data file : /var/chem/gcms/md.i/D072511I.b/icdg254.d
 Lab Smp Id: ICDG254 Client Smp ID: STD060
 Inj Date : 25-JUL-2011 13:11
 Operator : 60841 Inst ID: md.i
 Smp Info : ICDG254,,1,4,,STD060
 Misc Info : D072511I,8270a9,8270dxnC13.sub
 Comment : Semivolatile Organic Compounds by GC/MS
 Method : /var/chem/gcms/md.i/D072511I.b/8270a9.m
 Meth Date : 25-Jul-2011 13:33 mcgeek Quant Type: ISTD
 Cal Date : 25-JUL-2011 13:11 Cal File: icdg254.d
 Als bottle: 5 Calibration Sample, Level: 4
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: 8270dxnC13.sub
 Target Version: 3.50
 Processing Host: qmidhp01

Concentration Formula: Amt * DF * Vt*Sf/Ws * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	1000.00000	Volume of final extract (uL) (1000 low, 2
Sf	1.00000	Prep Split Factor
Ws	30.00000	Weight of sample extracted (g)

Cpnd Variable

Local Compound Variable

Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
						CAL-AMT (ng/uL)	ON-COL (ng/uL)
* 1 1,4-Dichlorobenzene-d4	152	4.301	4.301	(1.000)	50077	20.0000	20.0
* 2 Naphthalene-d8	136	5.893	5.893	(1.000)	196721	20.0000	20.0
* 3 Acenaphthene-d10	164	8.484	8.484	(1.000)	118482	20.0000	20.0
* 4 Phenanthrene-d10	188	9.895	9.895	(1.000)	226546	20.0000	20.0
* 5 Chrysene-d12	240	11.933	11.933	(1.000)	244525	20.0000	20.0
* 6 Perylene-d12	264	13.861	13.861	(1.000)	224450	20.0000	20.0
\$ 7 2-Fluorophenol	112	3.132	3.132	(0.728)	182665	60.0000	61.9
\$ 8 Phenol-d5	99	3.937	3.937	(0.915)	220027	60.0000	62.6
\$ 9 Nitrobenzene-d5	82	4.930	4.930	(0.836)	205689	60.0000	61.7
\$ 10 2-Fluorobiphenyl	172	7.591	7.591	(0.895)	469932	60.0000	61.8
\$ 11 2,4,6-Tribromophenol	330	9.307	9.307	(0.941)	62015	60.0000	61.9
\$ 12 Terphenyl-d14	244	11.046	11.046	(0.926)	605018	60.0000	62.4
\$ 179 13C6-naphthalene	134	5.923	5.923	(1.005)	649572	60.0000	61.2
175 1,4-Dioxane	88	2.051	2.051	(0.477)	64581	60.0000	60.0

Data File: /var/chem/gcms/md.i/D072511I.b/icdg254.d
Report Date: 25-Jul-2011 13:33

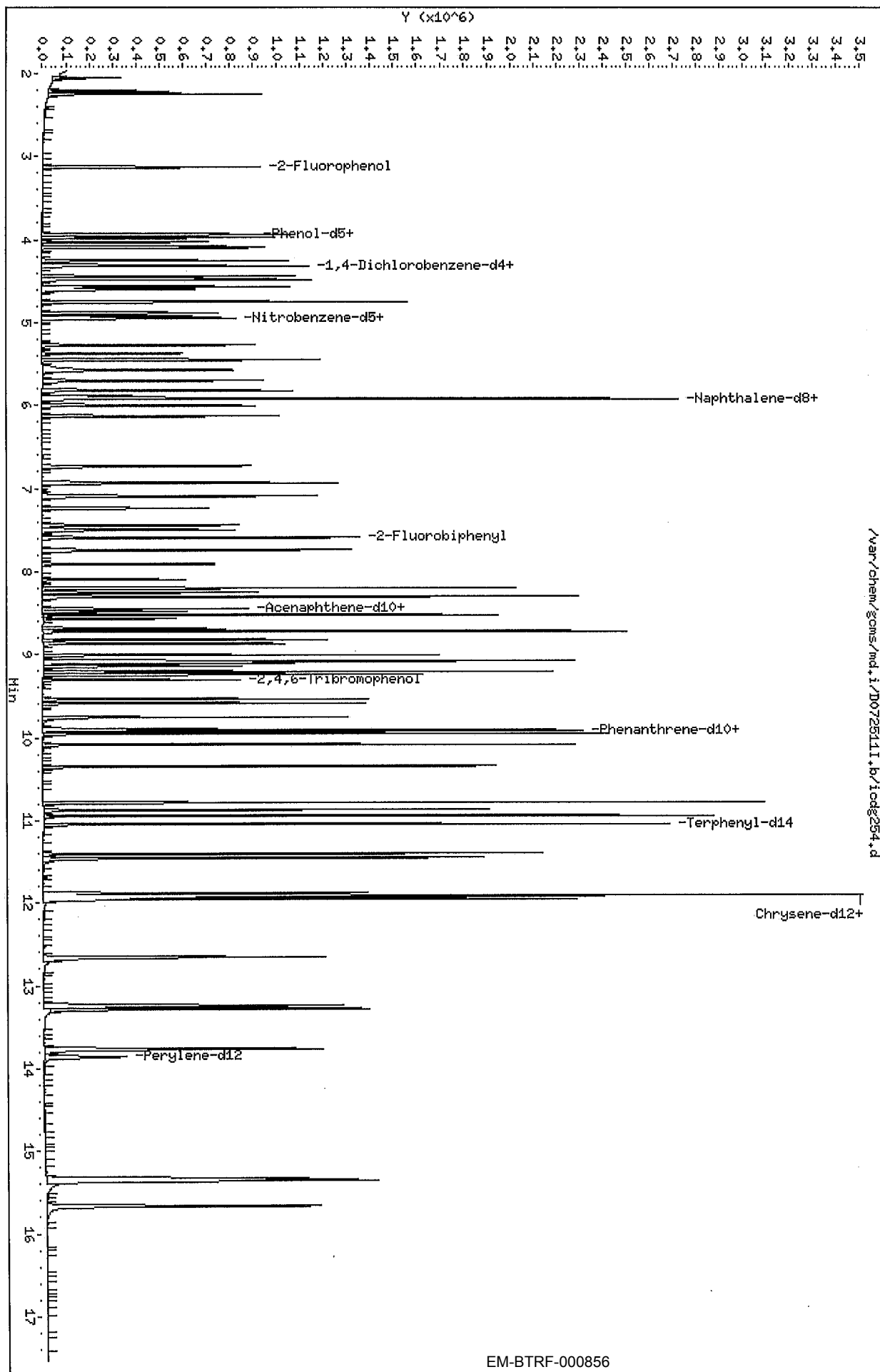
Compounds	QUANT SIG					AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ng/uL)	ON-COL (ng/uL)
=====	=====	==	=====	=====	=====	=====	=====
13 N-Nitrosodimethylamine	74	2.209	2.209	(0.514)	102370	60.0000	62.9
14 Pyridine	79	2.245	2.245	(0.522)	177630	60.0000	62.6
15 Phenol (ccc)	94	3.949	3.949	(0.918)	223927	60.0000	62.5
16 Aniline	93	3.978	3.978	(0.925)	276860	60.0000	62.5
17 Bis(2-chloroethyl)ether	93	4.031	4.031	(0.937)	164823	60.0000	62.5
18 2-Chlorophenol	128	4.101	4.101	(0.954)	200626	60.0000	62.4
19 1,3-Dichlorobenzene	146	4.254	4.254	(0.989)	224961	60.0000	63.0
20 1,4-Dichlorobenzene (ccc)	146	4.319	4.319	(1.004)	229273	60.0000	63.2
21 Benzyl alcohol	108	4.442	4.442	(1.033)	132718	60.0000	61.4
22 1,2-Dichlorobenzene	146	4.483	4.483	(1.042)	221304	60.0000	63.6
23 2-Methylphenol	108	4.565	4.565	(1.061)	178016	60.0000	62.5
24 2,2'-Oxybis(1-Chloropropane)	45	4.601	4.601	(1.070)	313365	60.0000	63.7
25 4-Methylphenol	108	4.753	4.753	(1.105)	185205	60.0000	62.8
26 3&4 Methylphenol	108	4.753	4.753	(1.105)	185205	60.0000	62.8
27 N-Nitroso-di-n-propylamine###	70	4.748	4.748	(1.104)	134711	60.0000	62.5
28 Hexachloroethane	117	4.883	4.883	(1.135)	85482	60.0000	62.2
29 Nitrobenzene	77	4.953	4.953	(0.840)	202425	60.0000	63.0
30 Isophorone	82	5.271	5.271	(0.894)	336043	60.0000	62.2
31 2-Nitrophenol (ccc)	139	5.376	5.376	(0.912)	109042	60.0000	61.8
32 2,4-Dimethylphenol	107	5.453	5.453	(0.925)	216931	60.0000	61.4
33 Bis(2-chloroethoxy)methane	93	5.576	5.576	(0.946)	213083	60.0000	62.0
34 Benzoic acid	122	5.588	5.588	(0.948)	94445	60.0000	57.4
35 2,4-Dichlorophenol (ccc)	162	5.705	5.705	(0.968)	178701	60.0000	62.1
36 1,2,4-Trichlorobenzene	180	5.823	5.823	(0.988)	198027	60.0000	62.4
37 Naphthalene	128	5.923	5.923	(1.005)	599944	60.0000	62.1
38 4-Chloroaniline	127	6.005	6.005	(1.019)	257968	60.0000	62.1
39 Hexachlorobutadiene (ccc)	225	6.134	6.134	(1.041)	125034	60.0000	62.7
40 4-Chloro-3-methylphenol (ccc)	107	6.734	6.734	(1.143)	174616	60.0000	61.5
41 2-Methylnaphthalene	142	6.933	6.933	(1.176)	409793	60.0000	61.5
42 Hexachlorocyclopentadiene####	237	7.239	7.239	(0.853)	127352	60.0000	60.6
43 2,4,6-Trichlorophenol (ccc)	196	7.444	7.444	(0.877)	127328	60.0000	60.5
44 2,4,5-Trichlorophenol	196	7.497	7.497	(0.884)	143654	60.0000	61.4
45 2-Chloronaphthalene	162	7.744	7.744	(0.913)	408525	60.0000	62.1
46 2-Nitroaniline	65	7.909	7.909	(0.932)	120210	60.0000	61.4
47 Acenaphthylene	152	8.308	8.308	(0.979)	662750	60.0000	62.1
48 Dimethyl phthalate	163	8.202	8.202	(0.967)	490358	60.0000	63.2
49 2,6-Dinitrotoluene	165	8.255	8.255	(0.973)	110450	60.0000	61.5
50 3-Nitroaniline	138	8.455	8.455	(0.997)	125402	60.0000	61.9
51 Acenaphthene (ccc)	153	8.526	8.526	(1.005)	425902	60.0000	62.0
52 2,4-Dinitrophenol ##spcc##	184	8.573	8.573	(1.010)	65034	60.0000	56.9
53 Dibenzofuran	168	8.725	8.725	(1.028)	593090	60.0000	62.4
54 4-Nitrophenol ##spcc##	109	8.690	8.690	(1.024)	69776	60.0000	60.5
55 2,4-Dinitrotoluene	165	8.725	8.725	(1.028)	147023	60.0000	61.4
56 Fluorene	166	9.078	9.078	(1.070)	503324	60.0000	62.3
57 4-Chlorophenyl phenyl ether	204	9.096	9.096	(1.072)	238198	60.0000	62.3
58 Diethyl phthalate	149	9.013	9.013	(1.062)	526305	60.0000	64.4
59 4-Nitroaniline	138	9.107	9.107	(1.073)	130789	60.0000	62.0

Data File: /var/chem/gcms/md.i/D072511I.b/icdg254.d
 Report Date: 25-Jul-2011 13:33

Compounds	QUANT SIG					AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ng/uL)	ON-COL (ng/uL)
=====	====	==	=====	=====	=====	=====	=====
60 4,6-Dinitro-2-methylphenol	198	9.143	9.143	(0.924)	91603	60.0000	60.4
61 N-Ndpa / diphenylamine (ccc)	169	9.213	9.213	(0.931)	419753	60.0000	62.1
62 1,2-Diphenylhydrazine/azobnz	77	9.242	9.242	(0.934)	438779	60.0000	63.3
63 4-Bromophenyl phenyl ether	248	9.542	9.542	(0.964)	136231	60.0000	62.1
64 Hexachlorobenzene	284	9.595	9.595	(0.970)	144881	60.0000	62.9
65 Pentachlorophenol (ccc)	266	9.759	9.759	(0.986)	108418	60.0000	62.0
66 Phenanthrene	178	9.918	9.918	(1.002)	760392	60.0000	62.6
67 Anthracene	178	9.953	9.953	(1.006)	780176	60.0000	62.1
68 Carbazole	167	10.083	10.083	(1.019)	710460	60.0000	63.3
69 Di-n-butyl phthalate	149	10.347	10.347	(1.046)	819753	60.0000	62.8
70 Fluoranthene (ccc)	202	10.788	10.788	(1.090)	852688	60.0000	62.4
71 Pyrene	202	10.946	10.946	(0.917)	903289	60.0000	62.0
72 Butyl benzyl phthalate	149	11.405	11.405	(0.956)	388334	60.0000	61.4
73 Benzo(a)Anthracene	228	11.922	11.922	(0.999)	810041	60.0000	62.3
74 3,3'-Dichlorobenzidine	252	11.886	11.886	(0.996)	310929	60.0000	61.7
75 Chrysene	228	11.957	11.957	(1.002)	815715	60.0000	63.0
76 Bis(2-ethylhexyl) phthalate	149	11.916	11.916	(0.999)	529074	60.0000	62.0
77 Di-n-octyl phthalate (ccc)	149	12.662	12.662	(0.914)	837163	60.0000	59.8
78 Benzo(b)fluoranthene	252	13.244	13.244	(0.955)	775148	60.0000	62.0
79 Benzo(k)fluoranthene	252	13.285	13.285	(0.958)	875284	60.0000	63.2
80 Benzo(a)pyrene (ccc)	252	13.767	13.767	(0.993)	768797	60.0000	61.2
81 Indeno(1,2,3-cd)pyrene	276	15.335	15.335	(1.106)	857727	60.0000	62.7
82 Dibenz(a,h)anthracene	278	15.359	15.359	(1.108)	695917	60.0000	63.7
83 Benzo(g,h,i)perylene	276	15.664	15.664	(1.130)	729993	60.0000	62.9

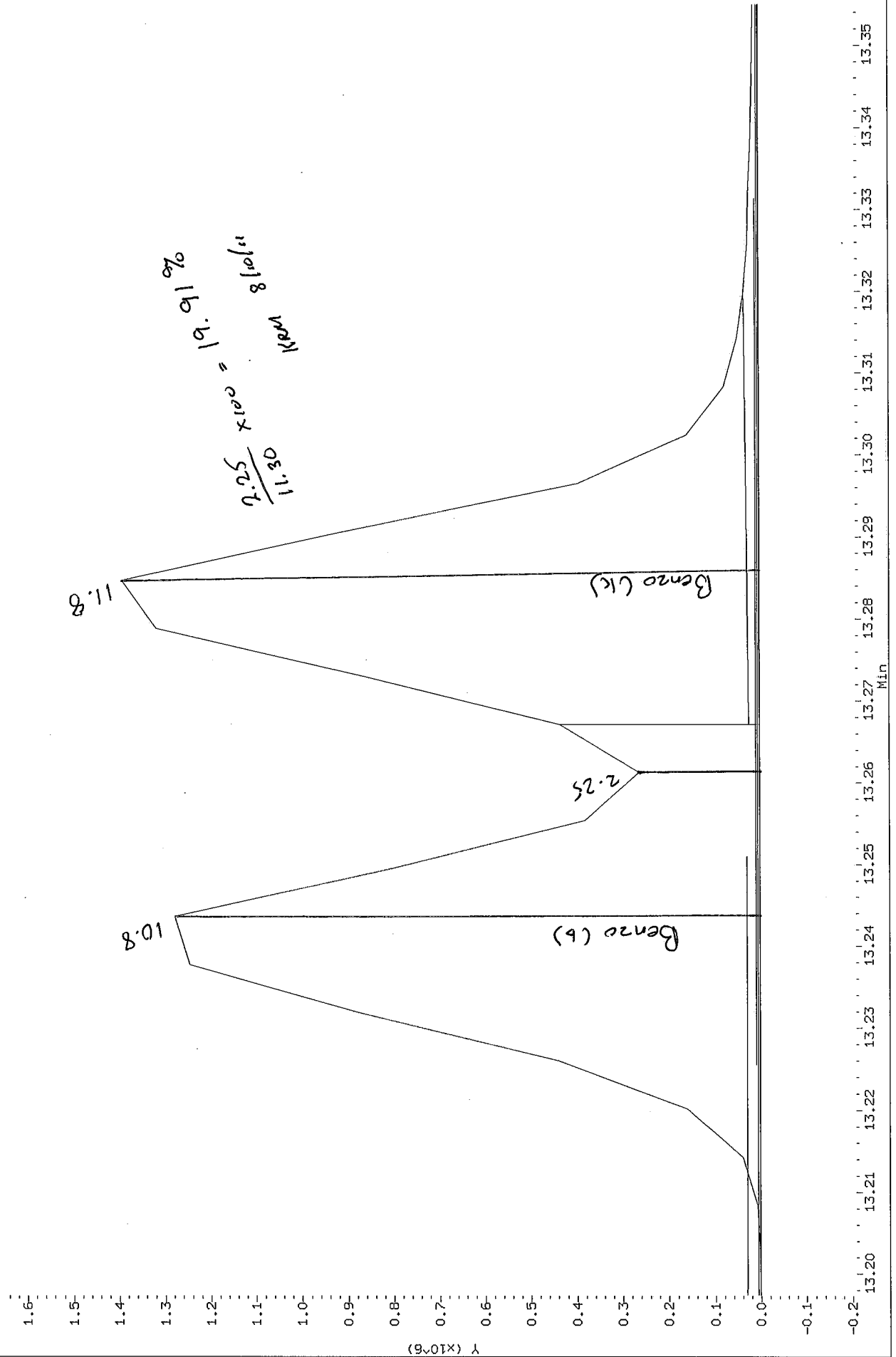
Data File: /var/chem/gcms/md.i/D0725111.b/iodg254.d
 Date: 25-JUL-2011 13:11
 Client ID: STD060
 Sample Info: IODG254,,1,4,,STD060
 Volume Injected (uL): 1.0
 Column phase: Rxi-5 Sil MS

Instrument: md.i
 Operator: 60841
 Column diameter: 0.25



Data File: /var/chem/gcms/md.i/D0725111.b/1cdg254.d
Injection Date: 25-JUL-2011 13:11
Instrument: md.i
Client Sample ID: STD060

MS HP ChemStation: 13.197 to 13.355 Min



Data File: /var/chem/gcms/md.i/D072511I.b/icdg255.d

Report Date: 25-Jul-2011 13:34

TestAmerica Knoxville

Semivolatile Organic Compounds by GC/MS

Data file : /var/chem/gcms/md.i/D072511I.b/icdg255.d
 Lab Smp Id: ICDG255 Client Smp ID: STD120
 Inj Date : 25-JUL-2011 12:46
 Operator : 60841 Inst ID: md.i
 Smp Info : ICDG255,,1,5,,STD120
 Misc Info : D072511I,8270a9,8270dxnC13.sub
 Comment : Semivolatile Organic Compounds by GC/MS
 Method : /var/chem/gcms/md.i/D072511I.b/8270a9.m
 Meth Date : 25-Jul-2011 13:34 mcgeek Quant Type: ISTD
 Cal Date : 25-JUL-2011 12:46 Cal File: icdg255.d
 Als bottle: 4 Calibration Sample, Level: 5
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: 8270dxnC13.sub
 Target Version: 3.50
 Processing Host: qmidhp01

Concentration Formula: Amt * DF * Vt*Sf/Ws * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	1000.00000	Volume of final extract (uL) (1000 low, 2
Sf	1.00000	Prep Split Factor
Ws	30.00000	Weight of sample extracted (g)

Cpnd Variable

Local Compound Variable

Compounds	QUANT SIG	MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
							CAL-AMT (ng/uL)	ON-COL (ng/uL)
* 1 1,4-Dichlorobenzene-d4	=====	152	4.307	4.307	(1.000)	49472	20.0000	20.0
* 2 Naphthalene-d8	=====	136	5.893	5.893	(1.000)	189185	20.0000	20.0
* 3 Acenaphthene-d10	=====	164	8.484	8.484	(1.000)	114027	20.0000	20.0
* 4 Phenanthrene-d10	=====	188	9.900	9.900	(1.000)	218755	20.0000	20.0
* 5 Chrysene-d12	=====	240	11.933	11.933	(1.000)	238477	20.0000	20.0
* 6 Perylene-d12	=====	264	13.861	13.861	(1.000)	217409	20.0000	20.0
\$ 7 2-Fluorophenol	=====	112	3.132	3.132	(0.727)	327049	120.000	112
\$ 8 Phenol-d5	=====	99	3.937	3.937	(0.914)	392291	120.000	113
\$ 9 Nitrobenzene-d5	=====	82	4.930	4.930	(0.836)	372473	120.000	116
\$ 10 2-Fluorobiphenyl	=====	172	7.597	7.597	(0.895)	843953	120.000	115
\$ 11 2,4,6-Tribromophenol	=====	330	9.313	9.313	(0.941)	111508	120.000	115
\$ 12 Terphenyl-d14	=====	244	11.046	11.046	(0.926)	1081367	120.000	114
\$ 179 13C6-naphthalene	=====	134	5.923	5.923	(1.005)	1199728	120.000	118
175 1,4-Dioxane	=====	88	2.056	2.056	(0.477)	3092	2.00000	2.91

Data File: /var/chem/gcms/md.i/D072511I.b/icdg255.d

Report Date: 25-Jul-2011 13:34

Compounds	QUANT SIG					AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ng/uL)	ON-COL (ng/uL)
=====	=====	==	=====	=====	=====	=====	=====
13 N-Nitrosodimethylamine	74	2.209	2.209	(0.513)	182613	120.000	114
14 Pyridine	79	2.244	2.244	(0.521)	317384	120.000	113
15 Phenol (ccc)	94	3.954	3.954	(0.918)	397657	120.000	112
16 Aniline	93	3.978	3.978	(0.924)	492285	120.000	112
17 Bis(2-chloroethyl)ether	93	4.037	4.037	(0.937)	295525	120.000	113
18 2-Chlorophenol	128	4.101	4.101	(0.952)	362188	120.000	114
19 1,3-Dichlorobenzene	146	4.254	4.254	(0.988)	400448	120.000	114
20 1,4-Dichlorobenzene (ccc)	146	4.324	4.324	(1.004)	403493	120.000	113
21 Benzyl alcohol	108	4.442	4.442	(1.031)	245062	120.000	115
22 1,2-Dichlorobenzene	146	4.483	4.483	(1.041)	385806	120.000	112
23 2-Methylphenol	108	4.571	4.571	(1.061)	316117	120.000	112
24 2,2'-Oxybis(1-Chloropropane)	45	4.601	4.601	(1.068)	550520	120.000	113
25 4-Methylphenol	108	4.759	4.759	(1.105)	324855	120.000	112
26 3&4 Methylphenol	108	4.759	4.759	(1.105)	324855	120.000	112
27 N-Nitroso-di-n-propylamine###	70	4.753	4.753	(1.104)	242860	120.000	114
28 Hexachloroethane	117	4.883	4.883	(1.134)	153068	120.000	113
29 Nitrobenzene	77	4.959	4.959	(0.841)	355210	120.000	115
30 Isophorone	82	5.276	5.276	(0.895)	601114	120.000	116
31 2-Nitrophenol (ccc)	139	5.376	5.376	(0.912)	196668	120.000	116
32 2,4-Dimethylphenol	107	5.453	5.453	(0.925)	396488	120.000	117
33 Bis(2-chloroethoxy)methane	93	5.576	5.576	(0.946)	379841	120.000	115
34 Benzoic acid	122	5.617	5.617	(0.953)	180086	120.000	114
35 2,4-Dichlorophenol (ccc)	162	5.711	5.711	(0.969)	319363	120.000	115
36 1,2,4-Trichlorobenzene	180	5.823	5.823	(0.988)	352828	120.000	116
37 Naphthalene	128	5.923	5.923	(1.005)	1079347	120.000	116
38 4-Chloroaniline	127	6.005	6.005	(1.019)	462160	120.000	116
39 Hexachlorobutadiene (ccc)	225	6.134	6.134	(1.041)	220189	120.000	115
40 4-Chloro-3-methylphenol (ccc)	107	6.739	6.739	(1.144)	316514	120.000	116
41 2-Methylnaphthalene	142	6.939	6.939	(1.177)	740055	120.000	116
42 Hexachlorocyclopentadiene####	237	7.239	7.239	(0.853)	230538	120.000	114
43 2,4,6-Trichlorophenol (ccc)	196	7.450	7.450	(0.878)	236849	120.000	117
44 2,4,5-Trichlorophenol	196	7.503	7.503	(0.884)	260419	120.000	116
45 2-Chloronaphthalene	162	7.750	7.750	(0.913)	732046	120.000	116
46 2-Nitroaniline	65	7.914	7.914	(0.933)	219117	120.000	116
47 Acenaphthylene	152	8.308	8.308	(0.979)	1183863	120.000	115
48 Dimethyl phthalate	163	8.208	8.208	(0.967)	855438	120.000	115
49 2,6-Dinitrotoluene	165	8.261	8.261	(0.974)	201106	120.000	116
50 3-Nitroaniline	138	8.455	8.455	(0.997)	226923	120.000	116
51 Acenaphthene (ccc)	153	8.525	8.525	(1.005)	764807	120.000	116
52 2,4-Dinitrophenol ##spcc##	184	8.578	8.578	(1.011)	127762	120.000	116
53 Dibenzofuran	168	8.725	8.725	(1.028)	1051230	120.000	115
54 4-Nitrophenol ##spcc##	109	8.696	8.696	(1.025)	129368	120.000	117
55 2,4-Dinitrotoluene	165	8.731	8.731	(1.029)	267675	120.000	116
56 Fluorene	166	9.084	9.084	(1.071)	894632	120.000	115
57 4-Chlorophenyl phenyl ether	204	9.095	9.095	(1.072)	427021	120.000	116
58 Diethyl phthalate	149	9.013	9.013	(1.062)	894596	120.000	114
59 4-Nitroaniline	138	9.119	9.119	(1.075)	239367	120.000	118

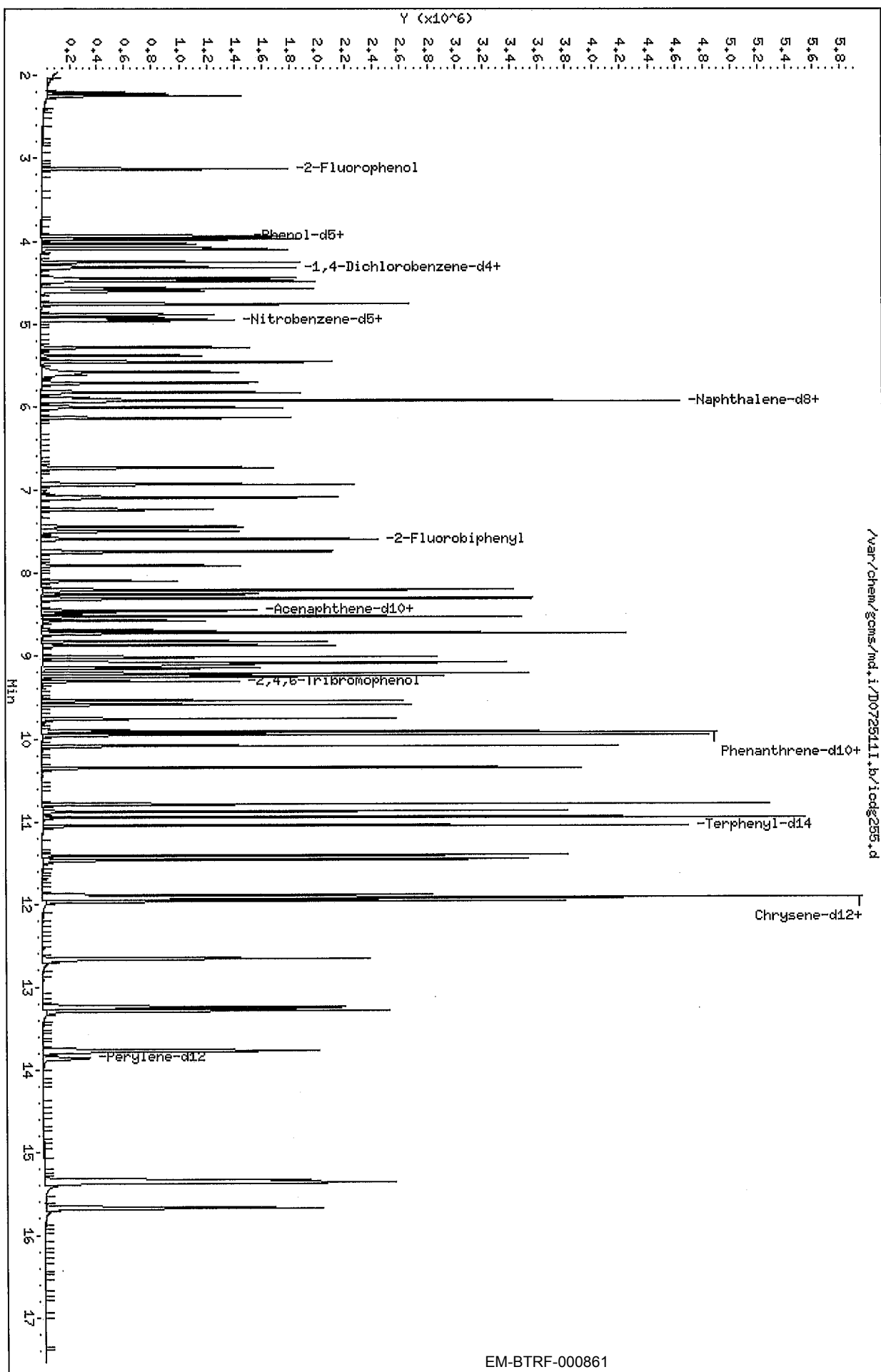
Data File: /var/chem/gcms/md.i/D072511I.b/icdg255.d

Report Date: 25-Jul-2011 13:34

Compounds	QUANT SIG	AMOUNTS						
		MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT	ON-COL
							(ng/uL)	(ng/uL)
=====	=====	==	=====	=====	=====	=====	=====	
60 4,6-Dinitro-2-methylphenol	198	9.148	9.148	{0.924}	168139	120.000	115	
61 N-Ndpa / diphenylamine (ccc)	169	9.213	9.213	{0.931}	762038	120.000	117	
62 1,2-Diphenylhydrazine/azobnz	77	9.248	9.248	{0.934}	771833	120.000	115	
63 4-Bromophenyl phenyl ether	248	9.542	9.542	{0.964}	246096	120.000	116	
64 Hexachlorobenzene	284	9.595	9.595	{0.969}	256365	120.000	115	
65 Pentachlorophenol (ccc)	266	9.759	9.759	{0.986}	193359	120.000	114	
66 Phenanthrene	178	9.918	9.918	{1.002}	1363760	120.000	116	
67 Anthracene	178	9.959	9.959	{1.006}	1413724	120.000	116	
68 Carbazole	167	10.088	10.088	{1.019}	1252574	120.000	116	
69 Di-n-butyl phthalate	149	10.353	10.353	{1.046}	1466717	120.000	116	
70 Fluoranthene (ccc)	202	10.788	10.788	{1.090}	1539312	120.000	116	
71 Pyrene	202	10.946	10.946	{0.917}	1625817	120.000	114	
72 Butyl benzyl phthalate	149	11.405	11.405	{0.956}	718821	120.000	116	
73 Benzo(a)Anthracene	228	11.922	11.922	{0.999}	1464396	120.000	116	
74 3,3'-Dichlorobenzidine	252	11.886	11.886	{0.996}	566168	120.000	115	
75 Chrysene	228	11.963	11.963	{1.002}	1463901	120.000	116	
76 Bis(2-ethylhexyl) phthalate	149	11.916	11.916	{0.999}	973995	120.000	117	
77 Di-n-octyl phthalate (ccc)	149	12.662	12.662	{0.914}	1593687	120.000	117	
78 Benzo(b)fluoranthene	252	13.249	13.249	{0.956}	1429861	120.000	118	
79 Benzo(k)fluoranthene	252	13.291	13.291	{0.959}	1532412	120.000	114	
80 Benzo(a)pyrene (ccc)	252	13.778	13.778	{0.994}	1429137	120.000	118	
81 Indeno(1,2,3-cd)pyrene	276	15.341	15.341	{1.107}	1526935	120.000	115	
82 Dibenz(a,h)anthracene	278	15.365	15.365	{1.109}	1185679	120.000	114	
83 Benzo(g,h,i)perylene	276	15.676	15.676	{1.131}	1291237	120.000	115	

Data File: /var/chem/gcms/md.i/D072511.b/iods255.d
 Date: 25-JUL-2011 12:46
 Client ID: STD120
 Sample Info: IODS255, 1,5, STD120
 Volume Injected (uL): 1.0
 Column phase: Rxi-5 Sil MS

Instrument: md.i
 Operator: 60841
 Column diameter: 0.25



Data File: /var/chem/gcms/md.i/D072511I.b/icdg258.d

Report Date: 25-Jul-2011 13:34

TestAmerica Knoxville

Semivolatile Organic Compounds by GC/MS

Data file : /var/chem/gcms/md.i/D072511I.b/icdg258.d
 Lab Smp Id: ICDG258 Client Smp ID: STD200
 Inj Date : 25-JUL-2011 12:21
 Operator : 60841 Inst ID: md.i
 Smp Info : ICDG258,,1,8,,STD200
 Misc Info : D072511I,8270a9,8270.sub
 Comment : Semivolatile Organic Compounds by GC/MS
 Method : /var/chem/gcms/md.i/D072511I.b/8270a9.m
 Meth Date : 25-Jul-2011 13:34 mcgeek Quant Type: ISTD
 Cal Date : 25-JUL-2011 12:21 Cal File: icdg258.d
 Als bottle: 3 Calibration Sample, Level: 8
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: 8270.sub
 Target Version: 3.50
 Processing Host: qmidhp01

Concentration Formula: Amt * DF * Vt*Sf/Ws * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	1000.00000	Volume of final extract (uL) (1000 low, 2
Sf	1.00000	Prep Split Factor
Ws	30.00000	Weight of sample extracted (g)

Cpnd Variable

Local Compound Variable

Compounds	QUANT	SIG	MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
								CAL-AMT (ng/uL)	ON-COL (ng/uL)
* 1 1,4-Dichlorobenzene-d4	152		4.307	4.307	(1.000)	49747	20.0000	20.0	
* 2 Naphthalene-d8	136		5.893	5.893	(1.000)	196047	20.0000	20.0	
* 3 Acenaphthene-d10	164		8.490	8.490	(1.000)	118402	20.0000	20.0	
* 4 Phenanthrene-d10	188		9.900	9.900	(1.000)	230794	20.0000	20.0	
* 5 Chrysene-d12	240		11.939	11.939	(1.000)	243093	20.0000	20.0	
* 6 Perylene-d12	264		13.866	13.866	(1.000)	223218	20.0000	20.0	
\$ 7 2-Fluorophenol	112		3.132	3.132	(0.727)	605599	200.000	207(A)	
\$ 8 Phenol-d5	99		3.943	3.943	(0.915)	709874	200.000	203(A)	
\$ 9 Nitrobenzene-d5	82		4.936	4.936	(0.837)	667955	200.000	201(A)	
\$ 10 2-Fluorobiphenyl	172		7.597	7.597	(0.895)	1532160	200.000	202(A)	
\$ 11 2,4,6-Tribromophenol	330		9.319	9.319	(0.941)	205814	200.000	202(A)	
\$ 12 Terphenyl-d14	244		11.052	11.052	(0.926)	1939785	200.000	201(A)	
175 1,4-Dioxane	88		2.045	2.045	(0.475)	657	200.000	0.615	
13 N-Nitrosodimethylamine	74		2.215	2.215	(0.514)	324607	200.000	201(A)	

Data File: /var/chem/gcms/md.i/D072511I.b/icdg258.d

Report Date: 25-Jul-2011 13:34

Compounds	QUANT SIG					AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ng/uL)	ON-COL (ng/uL)
=====	=====	==	=====	=====	=====	=====	=====
14 Pyridine	79	2.245	2.245	(0.521)	571966	200.000	203 (A)
15 Phenol (ccc)	94	3.960	3.960	(0.920)	727702	200.000	204 (A)
16 Aniline	93	3.984	3.984	(0.925)	897613	200.000	204 (A)
17 Bis(2-chloroethyl)ether	93	4.043	4.043	(0.939)	530017	200.000	202 (A)
18 2-Chlorophenol	128	4.107	4.107	(0.954)	646079	200.000	202 (A)
19 1,3-Dichlorobenzene	146	4.254	4.254	(0.988)	711477	200.000	201 (A)
20 1,4-Dichlorobenzene (ccc)	146	4.325	4.325	(1.004)	726412	200.000	202 (A)
21 Benzyl alcohol	108	4.454	4.454	(1.034)	437953	200.000	204 (A)
22 1,2-Dichlorobenzene	146	4.489	4.489	(1.042)	694792	200.000	201 (A)
23 2-Methylphenol	108	4.577	4.577	(1.063)	579484	200.000	205 (A)
24 2,2'-Oxybis(1-Chloropropane)	45	4.601	4.601	(1.068)	969649	200.000	198 (A)
25 4-Methylphenol	108	4.765	4.765	(1.106)	599676	200.000	205 (A)
26 3&4 Methylphenol	108	4.765	4.765	(1.106)	599676	200.000	205 (A)
27 N-Nitroso-di-n-propylamine###	70	4.765	4.765	(1.106)	431445	200.000	202 (A)
28 Hexachloroethane	117	4.889	4.889	(1.135)	278903	200.000	204 (A)
29 Nitrobenzene	77	4.965	4.965	(0.842)	636839	200.000	199 (A)
30 Isophorone	82	5.288	5.288	(0.897)	1077020	200.000	200 (A)
31 2-Nitrophenol (ccc)	139	5.382	5.382	(0.913)	352949	200.000	201 (A)
32 2,4-Dimethylphenol	107	5.458	5.458	(0.926)	707583	200.000	201 (A)
33 Bis(2-chloroethoxy)methane	93	5.582	5.582	(0.947)	691220	200.000	202 (A)
34 Benzoic acid	122	5.658	5.658	(0.960)	359874	200.000	219 (A)
35 2,4-Dichlorophenol (ccc)	162	5.711	5.711	(0.969)	576205	200.000	201 (A)
36 1,2,4-Trichlorobenzene	180	5.829	5.829	(0.989)	630467	200.000	199 (A)
37 Naphthalene	128	5.929	5.929	(1.006)	1921010	200.000	199 (A)
38 4-Chloroaniline	127	6.011	6.011	(1.020)	828016	200.000	200 (A)
39 Hexachlorobutadiene (ccc)	225	6.134	6.134	(1.041)	396144	200.000	199 (A)
40 4-Chloro-3-methylphenol (ccc)	107	6.745	6.745	(1.145)	570005	200.000	202 (A)
41 2-Methylnaphthalene	142	6.939	6.939	(1.177)	1343128	200.000	202 (A)
42 Hexachlorocyclopentadiene####	237	7.245	7.245	(0.853)	435812	200.000	208 (A)
43 2,4,6-Trichlorophenol (ccc)	196	7.450	7.450	(0.878)	428067	200.000	204 (A)
44 2,4,5-Trichlorophenol	196	7.503	7.503	(0.884)	474289	200.000	203 (A)
45 2-Chloronaphthalene	162	7.750	7.750	(0.913)	1313651	200.000	200 (A)
46 2-Nitroaniline	65	7.920	7.920	(0.933)	394988	200.000	202 (A)
47 Acenaphthylene	152	8.314	8.314	(0.979)	2144404	200.000	201 (A)
48 Dimethyl phthalate	163	8.220	8.220	(0.968)	1535885	200.000	198 (A)
49 2,6-Dinitrotoluene	165	8.267	8.267	(0.974)	360290	200.000	201 (A)
50 3-Nitroaniline	138	8.467	8.467	(0.997)	404213	200.000	200 (A)
51 Acenaphthene (ccc)	153	8.531	8.531	(1.005)	1378749	200.000	201 (A)
52 2,4-Dinitrophenol ##spcc##	184	8.584	8.584	(1.011)	247756	200.000	217 (A)
53 Dibenzofuran	168	8.731	8.731	(1.028)	1902569	200.000	200 (A)
54 4-Nitrophenol ##spcc##	109	8.702	8.702	(1.025)	234751	200.000	204 (A)
55 2,4-Dinitrotoluene	165	8.737	8.737	(1.029)	482047	200.000	202 (A)
56 Fluorene	166	9.084	9.084	(1.070)	1619121	200.000	200 (A)
57 4-Chlorophenyl phenyl ether	204	9.101	9.101	(1.072)	759153	200.000	199 (A)
58 Diethyl phthalate	149	9.019	9.019	(1.062)	1598317	200.000	196 (A)
59 4-Nitroaniline	138	9.131	9.131	(1.075)	415716	200.000	197 (A)
60 4,6-Dinitro-2-methylphenol	198	9.160	9.160	(0.925)	320097	200.000	207 (A)

Data File: /var/chem/gcms/md.i/D072511I.b/icdg258.d

Report Date: 25-Jul-2011 13:34

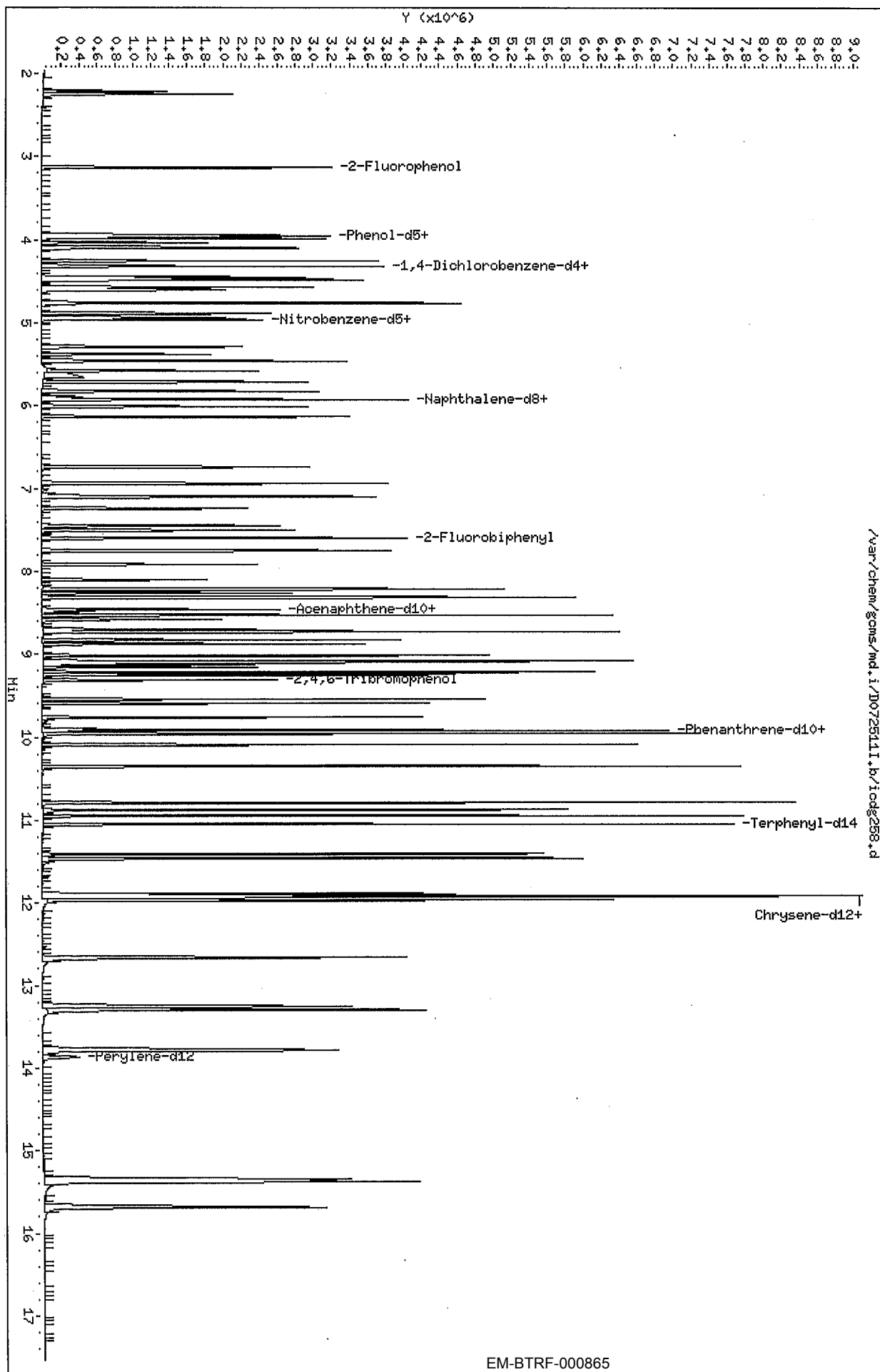
Compounds	QUANT SIG					AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ng/uL)	ON-COL (ng/uL)
=====	=====	==	=====	=====	=====	=====	=====
61 N-Ndpa / diphenylamine (ccc)	169	9.219	9.219	(0.931)	1364100	200.000	198 (A)
62 1,2-Diphenylhydrazine/azobnz	77	9.248	9.248	(0.934)	1389825	200.000	197 (A)
63 4-Bromophenyl phenyl ether	248	9.542	9.542	(0.964)	445506	200.000	199 (A)
64 Hexachlorobenzene	284	9.601	9.601	(0.970)	464455	200.000	198 (A)
65 Pentachlorophenol (ccc)	266	9.765	9.765	(0.986)	361464	200.000	203 (A)
66 Phenanthrene	178	9.924	9.924	(1.002)	2448878	200.000	198 (A)
67 Anthracene	178	9.959	9.959	(1.006)	2542533	200.000	199 (A)
68 Carbazole	167	10.088	10.088	(1.019)	2247206	200.000	196 (A)
69 Di-n-butyl phthalate	149	10.353	10.353	(1.046)	2615129	200.000	197 (A)
70 Fluoranthene (ccc)	202	10.794	10.794	(1.090)	2756905	200.000	198 (A)
71 Pyrene	202	10.952	10.952	(0.917)	2931244	200.000	202 (A)
72 Butyl benzyl phthalate	149	11.410	11.410	(0.956)	1262908	200.000	201 (A)
73 Benzo(a)Anthracene	228	11.928	11.928	(0.999)	2580600	200.000	200 (A)
74 3,3'-Dichlorobenzidine	252	11.892	11.892	(0.996)	1013253	200.000	202 (A)
75 Chrysene	228	11.969	11.969	(1.002)	2529185	200.000	196 (A)
76 Bis(2-ethylhexyl) phthalate	149	11.916	11.916	(0.998)	1685389	200.000	198 (A)
77 Di-n-octyl phthalate (ccc)	149	12.668	12.668	(0.914)	2878736	200.000	206 (A)
78 Benzo(b)fluoranthene	252	13.255	13.255	(0.956)	2462067	200.000	198 (A)
79 Benzo(k)fluoranthene	252	13.302	13.302	(0.959)	2759143	200.000	200 (A)
80 Benzo(a)pyrene (ccc)	252	13.790	13.790	(0.994)	2513989	200.000	201 (A)
81 Indeno(1,2,3-cd)pyrene	276	15.353	15.353	(1.107)	2725233	200.000	200 (A)
82 Dibenz(a,h)anthracene	278	15.376	15.376	(1.109)	2228916	200.000	204 (A)
83 Benzo(g,h,i)perylene	276	15.688	15.688	(1.131)	2319346	200.000	200 (A)

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

Data File: /var/chem/gcms/md.i/D072511.b/icd258.d
 Date: 25-JUL-2011 12:21
 Client ID: STD200
 Sample Info: ICD258, 1,8, STD200
 Volume Injected (uL): 1.0
 Column phase: Rxi-5 Sil MS

Instrument: md.i
 Operator: 60841
 Column diameter: 0.25



Data File: /var/chem/gcms/md.i/D072511I.b/icvdg25.d
 Report Date: 25-Jul-2011 17:08

TestAmerica Knoxville

Semivolatile Organic Compounds by GC/MS

Data file : /var/chem/gcms/md.i/D072511I.b/icvdg25.d
 Lab Smp Id: ICVDG25 Client Smp ID: 2ND SOURCE
 Inj Date : 25-JUL-2011 15:44
 Operator : 60841 Inst ID: md.i
 Smp Info : ICVDG25,,3,,,2ND SOURCE
 Misc Info : D072511I,8270a9,8270dxnC13.sub
 Comment : Semivolatile Organic Compounds by GC/MS
 Method : /var/chem/gcms/md.i/D072511I.b/8270a9.m
 Meth Date : 25-Jul-2011 16:52 chemist Quant Type: ISTD
 Cal Date : 25-JUL-2011 15:19 Cal File: icdg257.d
 Als bottle: 11 QC Sample: BLANK
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: 8270dxnC13.sub
 Target Version: 3.50
 Processing Host: qmidhp01

Concentration Formula: Amt * DF * Vt*Sf/Ws * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	1000.00000	Volume of final extract (uL) (1000 low, 2
Sf	1.00000	Prep Split Factor
Ws	30.00000	Weight of sample extracted (g)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG	MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN (ng/uL)	FINAL (ug/Kg)
* 1 1,4-Dichlorobenzene-d4	152	4.301	4.301	(1.000)	51393	20.0000	20.0	
* 2 Naphthalene-d8	136	5.888	5.887	(1.000)	202378	20.0000	20.0	
* 3 Acenaphthene-d10	164	8.485	8.484	(1.000)	122969	20.0000	20.0	
* 4 Phenanthrene-d10	188	9.895	9.895	(1.000)	234541	20.0000	20.0	
* 5 Chrysene-d12	240	11.928	11.928	(1.000)	257596	20.0000	20.0	
* 6 Perylene-d12	264	13.861	13.861	(1.000)	228771	20.0000	20.0	
175 1,4-Dioxane	88	2.051	2.051	(0.477)	66317	60.0839	2000	
13 N-Nitrosodimethylamine	74	2.209	2.209	(0.514)	104707	65.2811	2180	
14 Pyridine	79	2.245	2.251	(0.522)	190032	67.9192	2260	
15 Phenol (ccc)	94	3.943	3.943	(0.917)	221556	63.3232	2110	
16 Aniline	93	3.972	3.972	(0.924)	276336	63.7280	2120	
17 Bis(2-chloroethyl)ether	93	4.031	4.031	(0.937)	165199	62.8942	2100	
18 2-Chlorophenol	128	4.096	4.095	(0.952)	203715	64.7115	2160	
19 1,3-Dichlorobenzene	146	4.248	4.248	(0.988)	225472	63.1169	2100	

Data File: /var/chem/gcms/md.i/D072511I.b/icvdg25.d

Report Date: 25-Jul-2011 17:08

Compounds	QUANT SIG	MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN	FINAL
							(ng/uL)	(ug/Kg)
=====	=====	=====	=====	=====	=====	=====	=====	=====
20 1,4-Dichlorobenzene (ccc)		146	4.319	4.319	(1.004)	231309	63.3823	2110
21 Benzyl alcohol		108	4.436	4.436	(1.031)	123128	59.5895	1990
22 1,2-Dichlorobenzene		146	4.483	4.483	(1.042)	221561	63.0746	2100
23 2-Methylphenol		108	4.566	4.566	(1.061)	179345	64.8697	2160
24 2,2'-Oxybis(1-Chloropropane)		45	4.595	4.595	(1.068)	305842	61.0212	2030
25 4-Methylphenol		108	4.754	4.754	(1.105)	190035	66.6618	2220
26 3&4 Methylphenol		108	4.754	4.754	(1.105)	190035	66.6618	2220
27 N-Nitroso-di-n-propylamine###		70	4.748	4.748	(1.104)	137393	65.4992	2180
28 Hexachloroethane		117	4.883	4.889	(1.135)	88979	64.9537	2160
29 Nitrobenzene		77	4.953	4.953	(0.841)	194678	61.6165	2050
30 Isophorone		82	5.271	5.271	(0.895)	345333	66.4623	2220
31 2-Nitrophenol (ccc)		139	5.371	5.376	(0.912)	105592	65.7511	2190
32 2,4-Dimethylphenol		107	5.453	5.447	(0.926)	208415	61.3834	2050
33 Bis(2-chloroethoxy)methane		93	5.570	5.570	(0.946)	210245	61.6958	2060
34 Benzoic acid		122	5.588	5.517	(0.949)	90972	60.6204	2020 (H)
35 2,4-Dichlorophenol (ccc)		162	5.705	5.705	(0.969)	178944	64.8431	2160
36 1,2,4-Trichlorobenzene		180	5.823	5.823	(0.989)	211426	66.7155	2220
37 Naphthalene		128	5.917	5.917	(1.005)	601999	62.0778	2070
38 4-Chloroaniline		127	6.005	6.005	(1.020)	258689	64.1957	2140
39 Hexachlorobutadiene (ccc)		225	6.128	6.134	(1.041)	111352	55.8911	1860
40 4-Chloro-3-methylphenol (ccc)		107	6.734	6.739	(1.144)	176723	66.7444	2220
41 2-Methylnaphthalene		142	6.933	6.933	(1.178)	422295	64.3805	2150
42 Hexachlorocyclopentadiene####		237	7.239	7.239	(0.853)	122667	64.1223	2140
43 2,4,6-Trichlorophenol (ccc)		196	7.445	7.445	(0.877)	127756	64.8906	2160
44 2,4,5-Trichlorophenol		196	7.497	7.503	(0.884)	140932	63.6099	2120
45 2-Chloronaphthalene		162	7.744	7.744	(0.913)	399885	60.8992	2030
46 2-Nitroaniline		65	7.909	7.909	(0.932)	115671	58.8851	1960
47 Acenaphthylene		152	8.308	8.308	(0.979)	643031	61.3045	2040
48 Dimethyl phthalate		163	8.203	8.197	(0.967)	474273	58.4133	1950
49 2,6-Dinitrotoluene		165	8.255	8.249	(0.973)	106604	62.5476	2080
50 3-Nitroaniline		138	8.449	8.449	(0.996)	122922	62.5492	2080
51 Acenaphthene (ccc)		153	8.526	8.520	(1.005)	424729	61.1967	2040
52 2,4-Dinitrophenol ##spcc##		184	8.573	8.573	(1.010)	47185	47.7240	1590
53 Dibenzofuran		168	8.720	8.720	(1.028)	584964	60.4772	2020
54 4-Nitrophenol ##spcc##		109	8.690	8.684	(1.024)	67577	63.7322	2120
55 2,4-Dinitrotoluene		165	8.725	8.725	(1.028)	147637	66.1887	2210
56 Fluorene		166	9.078	9.078	(1.070)	505685	63.1462	2100
57 4-Chlorophenyl phenyl ether		204	9.096	9.096	(1.072)	239932	61.9823	2070
58 Diethyl phthalate		149	9.013	9.007	(1.062)	488643	57.4993	1920
59 4-Nitroaniline		138	9.107	9.101	(1.073)	126656	61.7428	2060
60 4,6-Dinitro-2-methylphenol		198	9.143	9.143	(0.924)	77194	53.5882	1790
61 N-Ndpa / diphenylamine (ccc)		169	9.213	9.207	(0.931)	419299	62.0734	2070
62 1,2-Diphenylhydrazine/azobnz		77	9.243	9.242	(0.934)	440318	63.0383	2100
63 4-Bromophenyl phenyl ether		248	9.542	9.536	(0.964)	134056	61.4981	2050
64 Hexachlorobenzene		284	9.595	9.589	(0.970)	142866	61.4152	2050
65 Pentachlorophenol (ccc)		266	9.760	9.760	(0.986)	94215	55.0378	1830
66 Phenanthrene		178	9.918	9.912	(1.002)	755708	60.1449	2000

Data File: /var/chem/gcms/md.i/D072511I.b/icvdg25.d

Report Date: 25-Jul-2011 17:08

Compounds	QUANT SIG	MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN	FINAL
							(ng/uL)	(ug/Kg)
=====	=====	=====	=====	=====	=====	=====	=====	=====
67 Anthracene		178	9.953	9.953	(1.006)	760968	62.4242	2080
68 Carbazole		167	10.083	10.083	(1.019)	712799	64.0692	2140
69 Di-n-butyl phthalate		149	10.347	10.347	(1.046)	796941	65.1495	2170
70 Fluoranthene (ccc)		202	10.788	10.788	(1.090)	856681	66.1576	2200
71 Pyrene		202	10.946	10.941	(0.918)	889764	60.9927	2030
72 Butyl benzyl phthalate		149	11.405	11.405	(0.956)	362253	56.6590	1890
73 Benzo(a)Anthracene		228	11.916	11.916	(0.999)	817057	63.9680	2130
74 3,3'-Dichlorobenzidine		252	11.881	11.881	(0.996)	307973	64.7214	2160
75 Chrysene		228	11.957	11.951	(1.002)	821443	60.2884	2010
76 Bis(2-ethylhexyl) phthalate		149	11.916	11.910	(0.999)	522761	60.3773	2010
77 Di-n-octyl phthalate (ccc)		149	12.656	12.656	(0.913)	802641	60.4199	2010
78 Benzo(b)fluoranthene		252	13.238	13.232	(0.955)	778179	67.7965	2260
79 Benzo(k)fluoranthene		252	13.279	13.267	(0.958)	859331	62.1272	2070
80 Benzo(a)pyrene (ccc)		252	13.767	13.755	(0.993)	761853	61.2266	2040
81 Indeno(1,2,3-cd)pyrene		276	15.330	15.318	(1.106)	820369	65.4214	2180
82 Dibenz(a,h)anthracene		278	15.359	15.353	(1.108)	667413	65.0589	2170
83 Benzo(g,h,i)perylene		276	15.665	15.653	(1.130)	695755	62.8900	2100

QC Flag Legend

H - Operator selected an alternate compound hit.

Data File: /var/chem/gcms/md.i/D072511I.b/icvdg25.d
 Report Date: 25-Jul-2011 17:08

TestAmerica Knoxville

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: md.i	Calibration Date: 25-JUL-2011
Lab File ID: icvdg25.d	Calibration Time: 13:11
Lab Smp Id: ICVDG25	Client Smp ID: 2ND SOURCE
Analysis Type: SV	Level: LOW
Quant Type: ISTD	Sample Type: SOIL
Operator: 60841	
Method File: /var/chem/gcms/md.i/D072511I.b/8270a9.m	
Misc Info: D072511I,8270a9,8270dxnC13.sub	

COMPOUND =====	STANDARD =====	AREA LIMIT		SAMPLE =====	%DIFF =====
		LOWER =====	UPPER =====		
1 1,4-Dichlorobenze	50077	25038	100154	51393	2.63
2 Naphthalene-d8	196721	98360	393442	202378	2.88
3 Acenaphthene-d10	118482	59241	236964	122969	3.79
4 Phenanthrene-d10	226546	113273	453092	234541	3.53
5 Chrysene-d12	244525	122262	489050	257596	5.35
6 Perylene-d12	224450	112225	448900	228771	1.93

COMPOUND =====	STANDARD =====	RT LIMIT		SAMPLE =====	%DIFF =====
		LOWER =====	UPPER =====		
1 1,4-Dichlorobenze	4.30	3.80	4.80	4.30	0.00
2 Naphthalene-d8	5.89	5.39	6.39	5.89	-0.10
3 Acenaphthene-d10	8.48	7.98	8.98	8.48	0.00
4 Phenanthrene-d10	9.89	9.39	10.39	9.89	0.00
5 Chrysene-d12	11.93	11.43	12.43	11.93	-0.05
6 Perylene-d12	13.86	13.36	14.36	13.86	0.00

AREA UPPER LIMIT = +100% of internal standard area.
 AREA LOWER LIMIT = - 50% of internal standard area.
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /var/chem/gcms/md.i/D072511I.b/icvdg25.d

Report Date: 25-Jul-2011 17:08

TestAmerica Knoxville

RECOVERY REPORT

Client Name: Client SDG: D072511I
 Sample Matrix: SOLID Fraction: SV
 Lab Smp Id: ICVDG25 Client Smp ID: 2ND SOURCE
 Level: LOW Operator: 60841
 Data Type: MS DATA SampleType: BLANK
 SpikeList File: 8270ss.spk Quant Type: ISTD
 Sublist File: 8270dxnC13.sub
 Method File: /var/chem/gcms/md.i/D072511I.b/8270a9.m
 Misc Info: D072511I,8270a9,8270dxnC13.sub

SPIKE COMPOUND	CONC ADDED ug/Kg	CONC RECOVERED ug/Kg	% RECOVERED	LIMITS
\$ 7 2-Fluorophenol	2000	0.00	*	70-130
\$ 8 Phenol-d5	2000	0.00	*	70-130
\$ 9 Nitrobenzene-d5	2000	0.00	*	70-130
\$ 10 2-Fluorobiphenyl	2000	0.00	*	70-130
\$ 11 2,4,6-Tribromophe	2000	0.00	*	70-130
\$ 12 Terphenyl-d14	2000	0.00	*	70-130
175 1,4-Dioxane	2000	2000	100.14	70-130
13 N-Nitrosodimethyla	2000	2180	108.80	70-130
14 Pyridine	2000	2260	113.20	70-130
15 Phenol (ccc)	2000	2110	105.54	70-130
16 Aniline	2000	2120	106.21	70-130
17 Bis(2-chloroethyl)	2000	2100	104.82	70-130
18 2-Chlorophenol	2000	2160	107.85	70-130
19 1,3-Dichlorobenzen	2000	2100	105.19	70-130
20 1,4-Dichlorobenzen	2000	2110	105.64	70-130
21 Benzyl alcohol	2000	1990	99.32	70-130
22 1,2-Dichlorobenzen	2000	2100	105.12	70-130
23 2-Methylphenol	2000	2160	108.12	70-130
24 2,2'-Oxybis(1-Chlo	2000	2030	101.70	70-130
25 4-Methylphenol	2000	2220	111.10	70-130
26 3&4 Methylphenol	2000	2220	111.10	70-130
27 N-Nitroso-di-n-pro	2000	2180	109.17	70-130
28 Hexachloroethane	2000	2160	108.26	70-130
29 Nitrobenzene	2000	2050	102.69	70-130
30 Isophorone	2000	2220	110.77	70-130
31 2-Nitrophenol (ccc	2000	2190	109.59	70-130
32 2,4-Dimethyphenol	2000	2050	102.31	70-130
33 Bis(2-chloroethoxy	2000	2060	102.83	70-130
34 Benzoic acid	2000	2020	101.03	70-130
35 2,4-Dichlorophenol	2000	2160	108.07	70-130
36 1,2,4-Trichloroben	2000	2220	111.19	70-130
37 Naphthalene	2000	2070	103.46	70-130
38 4-Chloroaniline	2000	2140	106.99	70-130

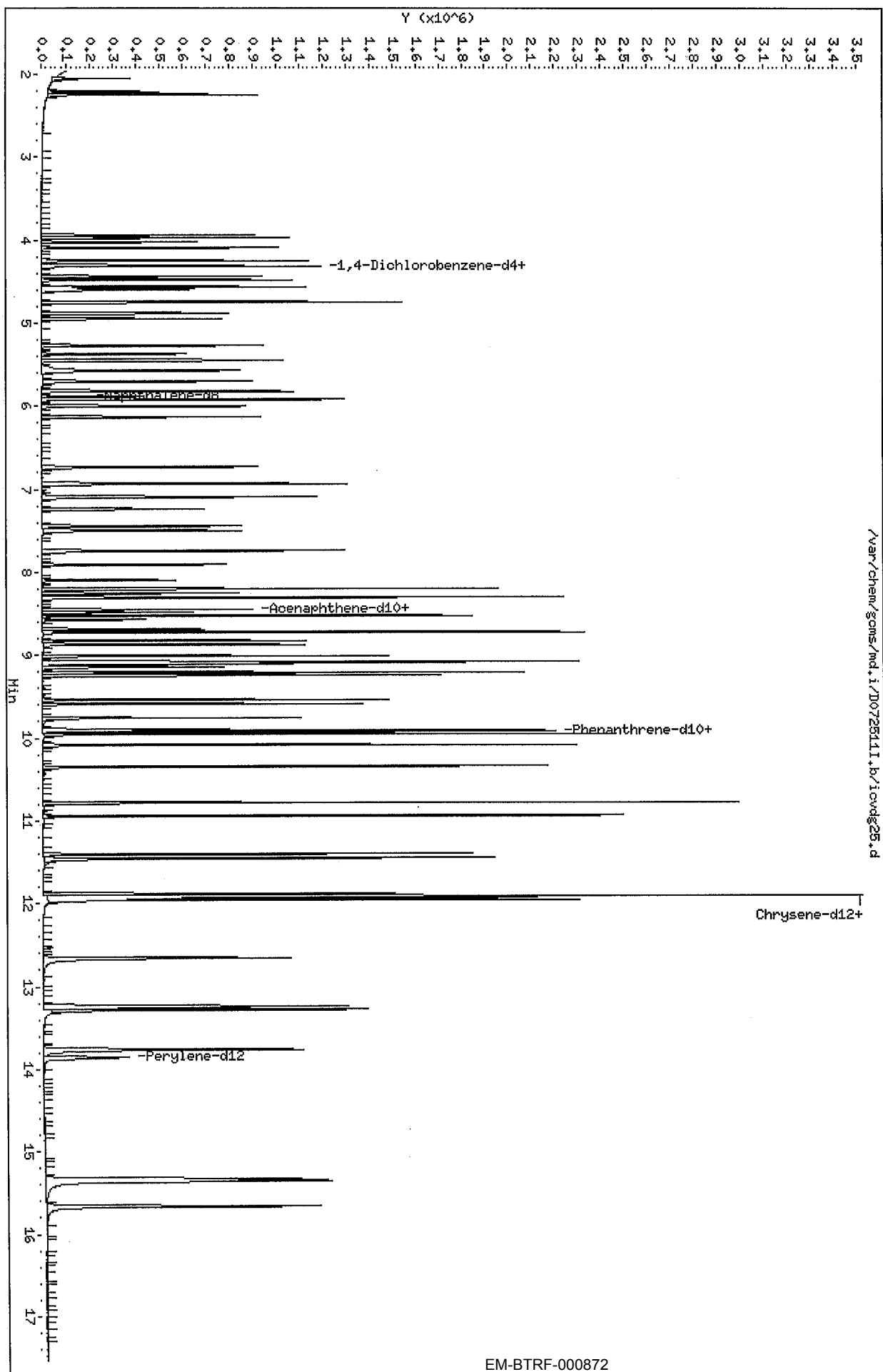
Data File: /var/chem/gcms/md.i/D072511I.b/icvdg25.d

Report Date: 25-Jul-2011 17:08

SPIKE COMPOUND	CONC ADDED ug/Kg	CONC RECOVERED ug/Kg	% RECOVERED	LIMITS
39 Hexachlorobutadien	2000	1860	93.15	70-130
40 4-Chloro-3-methylp	2000	2220	111.24	70-130
41 2-Methylnaphthalen	2000	2150	107.30	70-130
42 Hexachlorocyclopen	2000	2140	106.87	70-130
43 2,4,6-Trichlorophe	2000	2160	108.15	70-130
44 2,4,5-Trichlorphen	2000	2120	106.02	70-130
45 2-Chloronaphthalen	2000	2030	101.50	70-130
46 2-Nitroaniline	2000	1960	98.14	70-130
47 Acenaphthylene	2000	2040	102.17	70-130
48 Dimethyl phthalate	2000	1950	97.36	70-130
49 2,6-Dinitrotoluene	2000	2080	104.25	70-130
50 3-Nitroaniline	2000	2080	104.25	70-130
51 Acenaphthene (ccc)	2000	2040	101.99	70-130
52 2,4-Dinitrophenol	2000	1590	79.54	70-130
53 Dibenzofuran	2000	2020	100.80	70-130
54 4-Nitrophenol ##sp	2000	2120	106.22	70-130
55 2,4-Dinitrotoluene	2000	2210	110.31	70-130
56 Fluorene	2000	2100	105.24	70-130
57 4-Chlorophenyl phe	2000	2070	103.30	70-130
58 Diethyl phthalate	2000	1920	95.83	70-130
59 4-Nitroaniline	2000	2060	102.90	70-130
60 4,6-Dinitro-2-meth	2000	1790	89.31	70-130
61 N-Ndpa / diphenyla	2000	2070	103.46	70-130
62 1,2-Diphenylhydraz	2000	2100	105.06	70-130
63 4-Bromophenyl phen	2000	2050	102.50	70-130
64 Hexachlorobenzene	2000	2050	102.36	70-130
65 Pentachlorophenol	2000	1830	91.73	70-130
66 Phenanthrene	2000	2000	100.24	70-130
67 Anthracene	2000	2080	104.04	70-130
68 Carbazole	2000	2140	106.78	70-130
69 Di-n-butyl phthala	2000	2170	108.58	70-130
70 Fluoranthene (ccc)	2000	2200	110.26	70-130
71 Pyrene	2000	2030	101.65	70-130
72 Butyl benzyl phtha	2000	1890	94.43	70-130
73 Benzo(a)Anthracene	2000	2130	106.61	70-130
74 3,3'-Dichlorobenzi	2000	2160	107.87	70-130
75 Chrysene	2000	2010	100.48	70-130
76 Bis(2-ethylhexyl)	2000	2010	100.63	70-130
77 Di-n-octyl phthala	2000	2010	100.70	70-130
78 Benzo(b)fluoranthe	2000	2260	112.99	70-130
79 Benzo(k)fluoranthe	2000	2070	103.55	70-130
80 Benzo(a)pyrene (cc	2000	2040	102.04	70-130
85 Benzo(e)pyrene	2000 NA	0.00	*	70-130
81 Indeno(1,2,3-cd)py	2000	2180	109.04	70-130
82 Dibenz(a,h)anthrac	2000	2170	108.43	70-130
83 Benzo(g,h,i)peryle	2000	2100	104.82	70-130

Data File: /var/chem/gcms/md.i/D0725111.b/icwdg25.d
Date: 25-JUL-2011 15:44
Client ID: 2ND SOURCE
Sample Info: ICWDG25,,3,,2ND SOURCE
Volume Injected (uL): 1.0
Column phase: Rxi-5 Sil MS

Instrument: md.i
Operator: 60841
Column diameter: 0.25



Data File: /chem/gcms/md.i/D072511I.b/icdg251.d

Report Date: 10-Aug-2011 15:46

TestAmerica Knoxville

RECOVERY REPORT

Client Name:

Sample Matrix: SOLID

Lab Smp Id: ICDG251

Level: LOW

Data Type: MS DATA

SpikeList File: allspike.spk

Sublist File: 8270dxnC13.sub

Method File: /var/chem/gcms/md.i/D072511I.b/8270a9.m

Misc Info: D072511I,8270a9,8270dxnC13.sub

Client SDG: D072511I

Fraction: SV

Client Smp ID: STD010

Operator: 60841

SampleType: BLANK

Quant Type: ISTD

8270
 Feedback
 for linear good
 c.m.p.s
 7/18-10-11

SPIKE COMPOUND	CONC ADDED ug/Kg	CONC RECOVERED ug/Kg	% RECOVERED	LIMITS
				70-130
13 N-Nitrosodimethyla	333	341	102.38	35-150
14 Pyridine	333	334	100.32	35-150
15 Phenol (ccc)	333	331	99.30	59-117
16 Aniline	333	335	100.53	35-150
17 Bis(2-chloroethyl)	333	330	99.05	35-150
18 2-Chlorophenol	333	323	97.01	63-114
19 1,3-Dichlorobenzen	333	340	102.03	35-150
20 1,4-Dichlorobenzen	333	342	102.76	65-111
21 Benzyl alcohol	333	317	95.13	35-150
22 1,2-Dichlorobenzen	333	350	105.14	35-150
23 2-Methylphenol	333	322	96.73	35-150
24 2,2'-Oxybis(1-Chlo	333	348	104.42	35-150
25 4-Methylphenol	333	326	97.79	35-150
26 3&4 Methylphenol	333	326	97.79	35-150
27 N-Nitroso-di-n-pro	333	327	98.14	62-114
28 Hexachloroethane	333	335	100.57	35-150
29 Nitrobenzene	333	330	99.13	35-150
30 Isophorone	333	322	96.57	35-150
31 2-Nitrophenol (ccc	333	299	89.78	35-150
32 2,4-Dimethyphenol	333	324	97.37	35-150
33 Bis(2-chloroethoxy	333	328	98.36	35-150
34 Benzoic acid	333	350	105.14	35-150
35 2,4-Dichlorophenol	333	319	95.84	35-150
36 1,2,4-Trichloroben	333	329	98.62	66-113
37 Naphthalene	333	339	101.62	60-100
38 4-Chloroaniline	333	327	98.10	35-150
39 Hexachlorobutadien	333	325	97.43	35-150
40 4-Chloro-3-methylp	333	311	93.37	71-118
41 2-Methylnaphthalen	333	335	100.40	35-150
42 Hexachlorocyclopen	333	294	88.29	35-150
43 2,4,6-Trichlorophe	333	300	90.11	35-150
44 2,4,5-Trichlorphen	333	307	92.17	35-150
45 2-Chloronaphthalen	333	324	97.20	35-150

7/18
 8-10-11

Data File: /chem/gcms/md.i/D072511I.b/icdg251.d

Report Date: 10-Aug-2011 15:46

SPIKE COMPOUND	CONC ADDED ug/Kg	CONC RECOVERED ug/Kg	% RECOVERED	LIMITS
46 2-Nitroaniline	333	364	109.13	35-150 ✓
47 Acenaphthylene	333	334	100.30	60-106
48 Dimethyl phthalate	333	348	104.48	35-150
49 2,6-Dinitrotoluene	333	310	92.93	35-150
50 3-Nitroaniline	333	302	90.68	35-150
51 Acenaphthene (ccc)	333	331	99.31	65-107
52 2,4-Dinitrophenol	333	412	123.66	35-150
53 Dibenzofuran	333	335	100.64	35-150
54 4-Nitrophenol ##sp	333	263	79.05	61-128
55 2,4-Dinitrotoluene	333	315	94.39	72-131
56 Fluorene	333	330	99.15	60-113
57 4-Chlorophenyl phe	333	343	103.00	35-150
58 Diethyl phthalate	333	360	108.13	35-150 ✓
59 4-Nitroaniline	333	315	94.49	35-150
60 4,6-Dinitro-2-meth	333	412	123.76	35-150 ✓
61 N-Ndpa / diphenyla	333	319	95.83	35-150
62 1,2-Diphenylhydraz	333	325	97.59	35-150
63 4-Bromophenyl phen	333	327	98.20	35-150
64 Hexachlorobenzene	333	326	97.75	35-150
65 Pentachlorophenol	333	359	107.66	71-122 ✓
66 Phenanthrene	333	329	98.73	65-108
67 Anthracene	333	327	98.07	67-114
68 Carbazole	333	328	98.30	35-150
69 Di-n-butyl phthala	333	295	88.58	35-150
70 Fluoranthene (ccc)	333	326	97.66	65-115
71 Pyrene	333	331	99.25	67-114
72 Butyl benzyl phtha	333	355	106.53	35-150 ✓
73 Benzo(a)Anthracene	333	329	98.81	70-114
74 3,3'-Dichlorobenzi	333	254	76.37	35-150
75 Chrysene	333	333	99.86	68-111
76 Bis(2-ethylhexyl)	333	336	100.91	35-150 ✓
77 Di-n-octyl phthala	333	202	60.59	35-150
78 Benzo(b)fluoranthene	333	302	90.62	60-120
79 Benzo(k)fluoranthene	333	345	103.53	61-119
80 Benzo(a)pyrene (cc	333	355	106.51	67-111 ✓
81 Indeno(1,2,3-cd)py	333	305	91.60	67-120
82 Dibenz(a,h)anthrac	333	315	94.47	71-120
83 Benzo(g,h,i)perylene	333	326	97.96	63-120

SURROGATE COMPOUND	CONC ADDED ug/Kg	CONC RECOVERED ug/Kg	% RECOVERED	LIMITS
\$ 7 2-Fluorophenol	2500	323	12.92*	44-93
\$ 8 Phenol-d5	2500	326	13.03*	47-98

Data File: /chem/gcms/md.i/D072511I.b/xcdg256.d
 Report Date: 25-Jul-2011 18:58

TestAmerica Knoxville

Semivolatatile Organic Compounds by GC/MS

Data file : /chem/gcms/md.i/D072511I.b/xcdg256.d
 Lab Smp Id: XCDG256 Client Smp ID: STD005
 Inj Date : 25-JUL-2011 18:39
 Operator : 60841 Inst ID: md.i
 Smp Info : XCDG256,,1,6,,STD005
 Misc Info : D072511I,8270a9,8270x.sub
 Comment : Semivolatatile Organic Compounds by GC/MS
 Method : /var/chem/gcms/md.i/D072511I.b/8270a9.m
 Meth Date : 25-Jul-2011 18:58 chemist Quant Type: ISTD
 Cal Date : 25-JUL-2011 18:39 Cal File: xcdg256.d
 Als bottle: 1 Calibration Sample, Level: 6
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: 8270x.sub
 Target Version: 3.50
 Processing Host: qmidhp01

Concentration Formula: Amt * DF * Vt*Sf/Ws * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	1000.00000	Volume of final extract (uL) (1000 low, 2
Sf	1.00000	Prep Split Factor
Ws	30.00000	Weight of sample extracted (g)

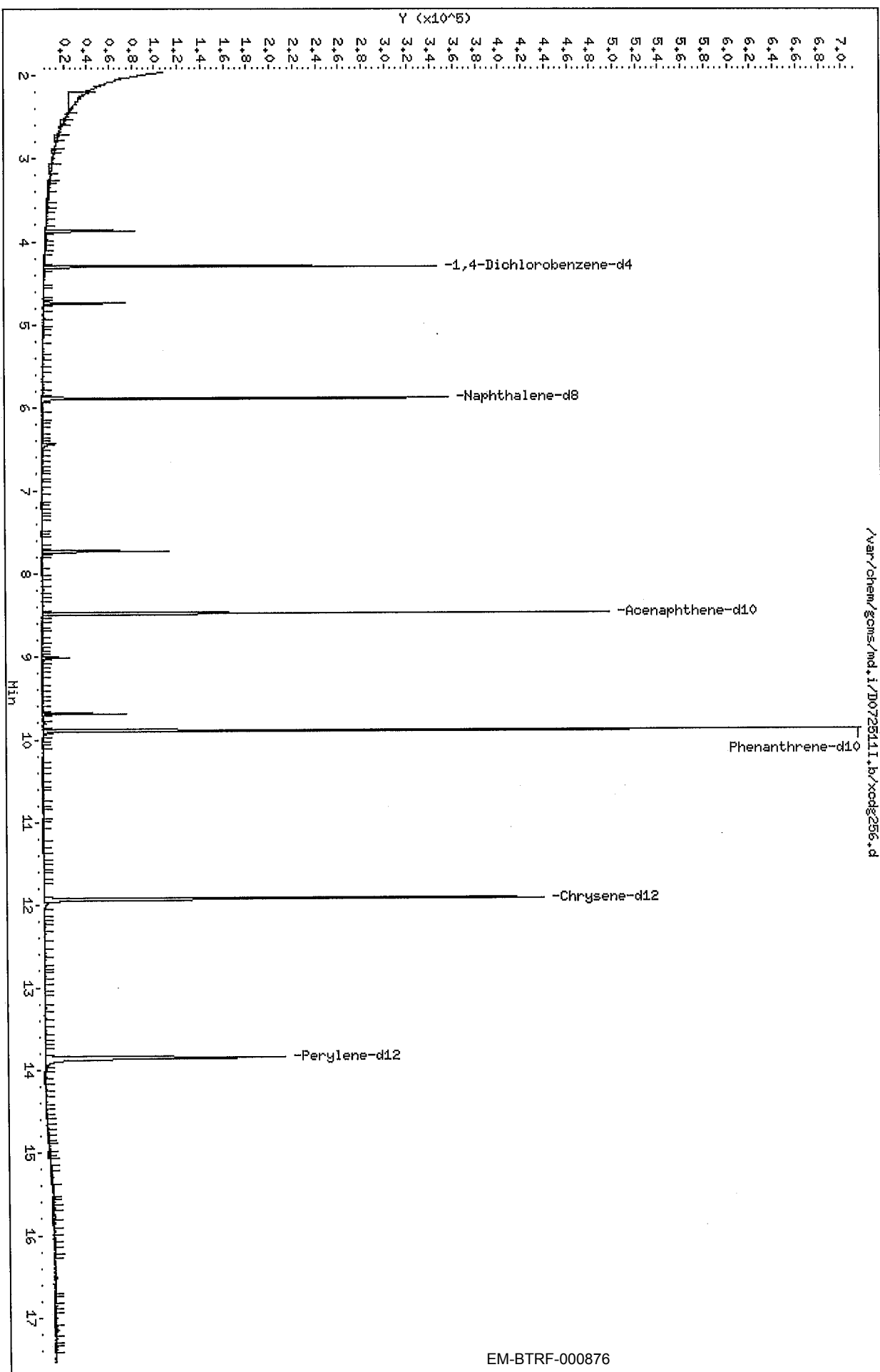
Cpnd Variable

Local Compound Variable

Compounds	QUANT SIG	MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
							CAL-AMT (ng/uL)	ON-COL (ng/uL)
* 1 1,4-Dichlorobenzene-d4	=====	152	4.301	4.301	(1.000)	42663	20.0000	20.0
* 2 Naphthalene-d8	=====	136	5.887	5.887	(1.000)	162657	20.0000	20.0
* 3 Acenaphthene-d10	=====	164	8.485	8.485	(1.000)	94090	20.0000	20.0
* 4 Phenanthrene-d10	=====	188	9.895	9.895	(1.000)	192814	20.0000	20.0
* 5 Chrysene-d12	=====	240	11.928	11.928	(1.000)	179918	20.0000	20.0
* 6 Perylene-d12	=====	264	13.861	13.861	(1.000)	143582	20.0000	20.0
184 Benzaldehyde	=====	105	3.872	3.872	(0.900)	10576	5.00000	5.24
189 Caprolactam	=====	55	6.434	6.434	(1.093)	3639	5.00000	3.01
188 1,1'-Biphenyl	=====	154	7.738	7.738	(0.912)	40678	5.00000	5.46
187 Atrazine	=====	200	9.689	9.689	(0.979)	5965	5.00000	3.48

Data File: /var/chem/gcms/md.i/D072511.b/xcdg256.d
Date : 25-JUL-2011 18:39
Client ID: STD005
Sample Info: XCDG256,1,6,STD005
Volume Injected (uL): 1.0
Column phase: Rxi-5 Sil MS

Instrument: md.i
Operator: 60841
Column diameter: 0.25



Data File: /chem/gcms/md.i/D072511I.b/xcdg251.d

Report Date: 25-Jul-2011 18:32

TestAmerica Knoxville

Semivolatile Organic Compounds by GC/MS

Data file : /chem/gcms/md.i/D072511I.b/xcdg251.d
 Lab Smp Id: XCDG251 Client Smp ID: STD010
 Inj Date : 25-JUL-2011 18:14
 Operator : 60841 Inst ID: md.i
 Smp Info : XCDG251,,1,1,,STD010
 Misc Info : D072511I,8270a9,8270x.sub
 Comment : Semivolatile Organic Compounds by GC/MS
 Method : /var/chem/gcms/md.i/D072511I.b/8270a9.m
 Meth Date : 25-Jul-2011 18:32 chemist Quant Type: ISTD
 Cal Date : 25-JUL-2011 18:14 Cal File: xcdg251.d
 Als bottle: 1 Calibration Sample, Level: 1
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: 8270x.sub
 Target Version: 3.50
 Processing Host: qmidhp01

Concentration Formula: Amt * DF * Vt*Sf/Ws * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	1000.00000	Volume of final extract (uL) (1000 low, 2
Sf	1.00000	Prep Split Factor
Ws	30.00000	Weight of sample extracted (g)

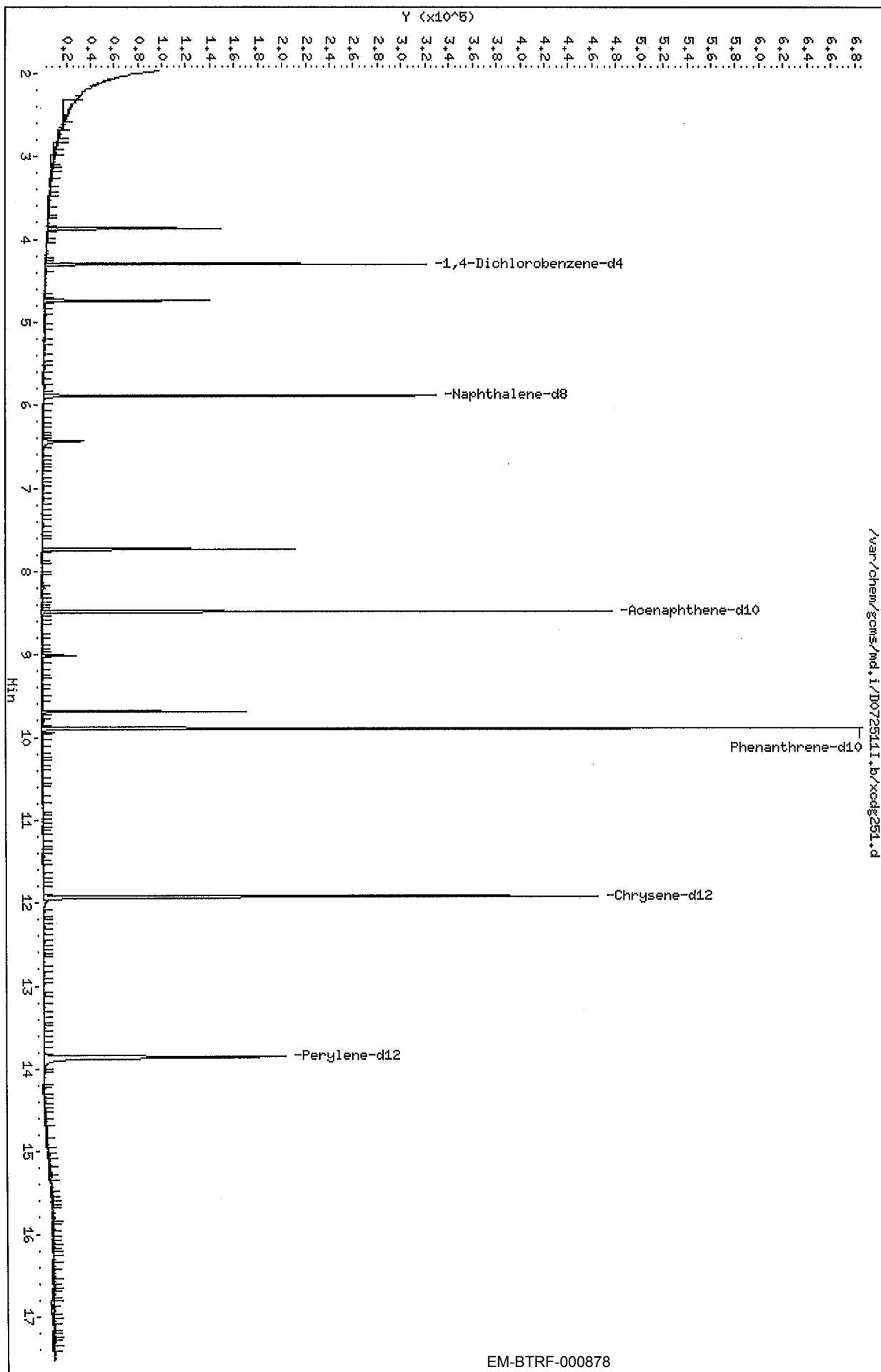
Cpnd Variable

Local Compound Variable

Compounds	QUANT SIG	MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
							CAL-AMT (ng/uL)	ON-COL (ng/uL)
* 1 1,4-Dichlorobenzene-d4	=====	152	4.301	4.301	(1.000)	41607	20.0000	20.0
* 2 Naphthalene-d8	=====	136	5.888	5.888	(1.000)	156953	20.0000	20.0
* 3 Acenaphthene-d10	=====	164	8.485	8.485	(1.000)	90440	20.0000	20.0
* 4 Phenanthrene-d10	=====	188	9.895	9.895	(1.000)	184649	20.0000	20.0
* 5 Chrysene-d12	=====	240	11.928	11.928	(1.000)	179557	20.0000	20.0
* 6 Perylene-d12	=====	264	13.861	13.861	(1.000)	142534	20.0000	20.0
184 Benzaldehyde	=====	105	3.872	3.872	(0.900)	20232	10.0000	10.4
189 Caprolactam	=====	55	6.434	6.434	(1.093)	9107	10.0000	7.33
188 1,1'-Biphenyl	=====	154	7.738	7.738	(0.912)	74619	10.0000	10.6
187 Atrazine	=====	200	9.689	9.689	(0.979)	13935	10.0000	8.09

Data File: /var/chem/gcms/md.i/D072511.b/xcdg251.d
Date: 25-JUL-2011 18:14
Client ID: STD010
Sample Info: XCDG251,1,1,STD010
Volume Injected (uL): 1.0
Column phase: Rxi-5 Sil MS

Instrument: md.i
Operator: 60841
Column diameter: 0.25



Data File: /chem/gcms/md.i/D072511I.b/xcdg252.d

Report Date: 25-Jul-2011 18:07

TestAmerica Knoxville

Semivolatile Organic Compounds by GC/MS

Data file : /chem/gcms/md.i/D072511I.b/xcdg252.d
 Lab Smp Id: XCDG252 Client Smp ID: STD025
 Inj Date : 25-JUL-2011 17:49
 Operator : 60841 Inst ID: md.i
 Smp Info : XCDG252,,1,2,,STD025
 Misc Info : D072511I,8270a9,8270x.sub
 Comment : Semivolatile Organic Compounds by GC/MS
 Method : /var/chem/gcms/md.i/D072511I.b/8270a9.m
 Meth Date : 25-Jul-2011 18:07 chemist Quant Type: ISTD
 Cal Date : 25-JUL-2011 17:49 Cal File: xcdg252.d
 Als bottle: 1 Calibration Sample, Level: 2
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: 8270x.sub
 Target Version: 3.50
 Processing Host: qmidhp01

Concentration Formula: Amt * DF * Vt*Sf/Ws * CpndVariable

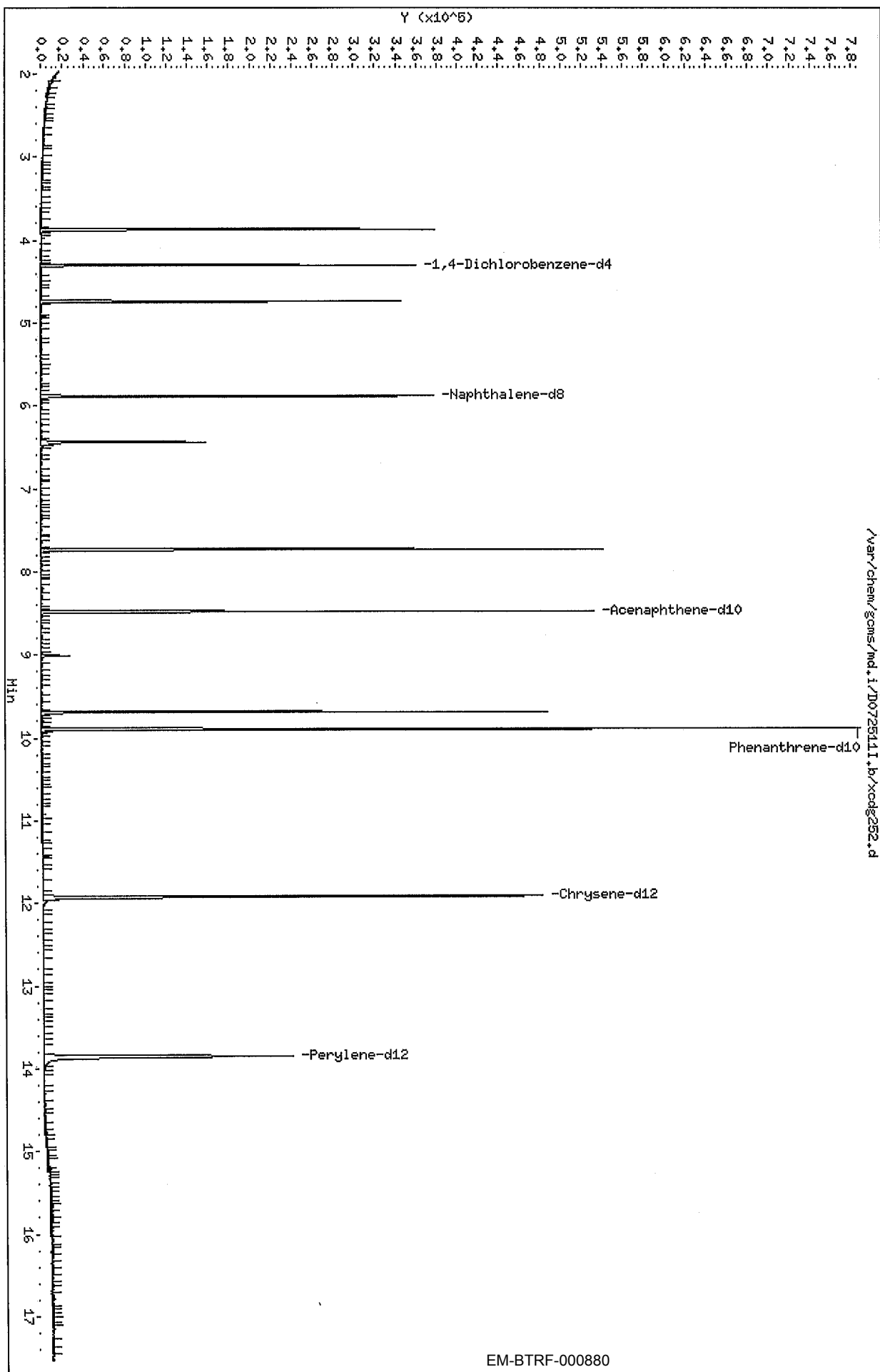
Name	Value	Description
DF	1.00000	Dilution Factor
Vt	1000.00000	Volume of final extract (uL) (1000 low, 2
Sf	1.00000	Prep Split Factor
Ws	30.00000	Weight of sample extracted (g)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG	MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
							CAL-AMT (ng/uL)	ON-COL (ng/uL)
* 1 1,4-Dichlorobenzene-d4	=====	152	4.301	4.301	(1.000)	46456	20.0000	20.0
* 2 Naphthalene-d8	=====	136	5.887	5.887	(1.000)	177465	20.0000	20.0
* 3 Acenaphthene-d10	=====	164	8.485	8.485	(1.000)	102228	20.0000	20.0
* 4 Phenanthrene-d10	=====	188	9.895	9.895	(1.000)	205857	20.0000	20.0
* 5 Chrysene-d12	=====	240	11.928	11.928	(1.000)	198337	20.0000	20.0
* 6 Perylene-d12	=====	264	13.855	13.855	(1.000)	161867	20.0000	20.0
184 Benzaldehyde	=====	105	3.872	3.872	(0.900)	52565	25.0000	24.3
189 Caprolactam	=====	55	6.440	6.440	(1.094)	31827	25.0000	21.5
188 1,1'-Biphenyl	=====	154	7.738	7.738	(0.912)	197021	25.0000	25.0
187 Atrazine	=====	200	9.695	9.695	(0.980)	46040	25.0000	23.1

Data File: /var/chem/gcms/md.i/D072511.b/xcdg252.d
Date: 25-JUL-2011 17:49
Client ID: STD025
Sample Info: XCDG252,1,2,STD025
Volume Injected (uL): 1.0
Column phase: Rxi-5 Sil MS

Instrument: md.i
Operator: 60841
Column diameter: 0.25



Data File: /chem/gcms/md.i/D072511I.b/xcdg253.d

Report Date: 25-Jul-2011 17:42

TestAmerica Knoxville

Semivolatile Organic Compounds by GC/MS

Data file : /chem/gcms/md.i/D072511I.b/xcdg253.d
 Lab Smp Id: XCDG253 Client Smp ID: STD040
 Inj Date : 25-JUL-2011 17:24
 Operator : 60841 Inst ID: md.i
 Smp Info : XCDG253,,1,3,,STD040
 Misc Info : D072511I,8270a9,8270x.sub
 Comment : Semivolatile Organic Compounds by GC/MS
 Method : /var/chem/gcms/md.i/D072511I.b/8270a9.m
 Meth Date : 25-Jul-2011 17:42 chemist Quant Type: ISTD
 Cal Date : 25-JUL-2011 17:24 Cal File: xcdg253.d
 Als bottle: 1 Calibration Sample, Level: 3
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: 8270x.sub
 Target Version: 3.50
 Processing Host: qmidhp01

Concentration Formula: Amt * DF * Vt*Sf/Ws * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	1000.00000	Volume of final extract (uL) (1000 low, 2
Sf	1.00000	Prep Split Factor
Ws	30.00000	Weight of sample extracted (g)

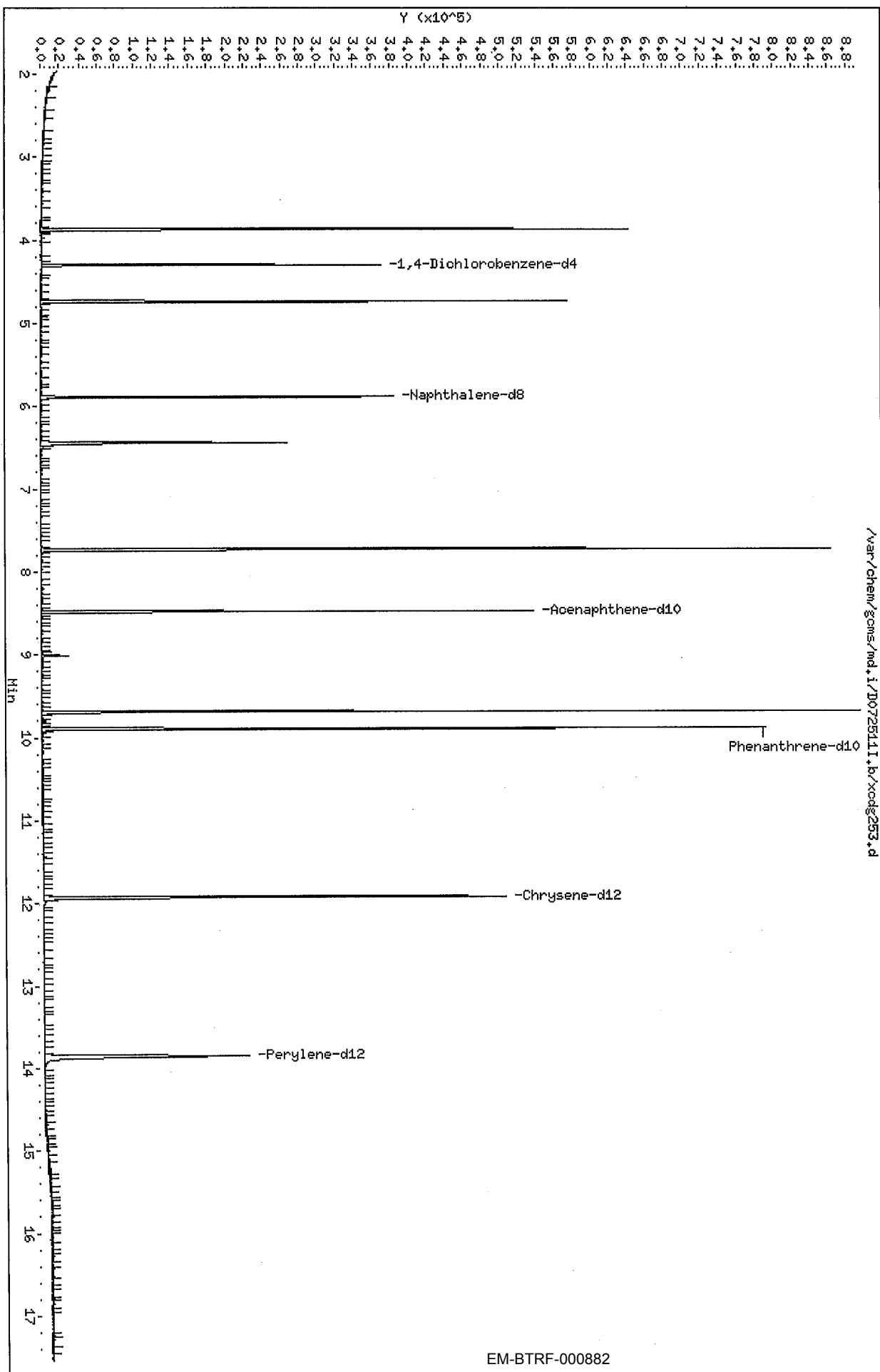
Cpnd Variable

Local Compound Variable

Compounds	QUANT SIG	MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
							CAL-AMT (ng/uL)	ON-COL (ng/uL)
* 1 1,4-Dichlorobenzene-d4	152	4.301	4.301	(1.000)	47015	20.0000	20.0	
* 2 Naphthalene-d8	136	5.888	5.888	(1.000)	179924	20.0000	20.0	
* 3 Acenaphthene-d10	164	8.485	8.485	(1.000)	102771	20.0000	20.0	
* 4 Phenanthrene-d10	188	9.895	9.895	(1.000)	207702	20.0000	20.0	
* 5 Chrysene-d12	240	11.928	11.928	(1.000)	198588	20.0000	20.0	
* 6 Perylene-d12	264	13.855	13.855	(1.000)	159970	20.0000	20.0	
184 Benzaldehyde	105	3.872	3.872	(0.900)	86837	40.0000	39.4	
189 Caprolactam	55	6.446	6.446	(1.095)	54789	40.0000	35.3	
188 1,1'-Biphenyl	154	7.738	7.738	(0.912)	318002	40.0000	40.1	
187 Atrazine	200	9.695	9.695	(0.980)	78411	40.0000	38.2	

Data File: /var/chem/gcms/md.i/D0725111.b/xodg253.d
Date: 25-JUL-2011 17:24
Client ID: STD040
Sample Info: XODG253,1,3,STD040
Volume Injected (uL): 1.0
Column phase: Rxi-5 Sil MS

Instrument: md.i
Operator: 60841
Column diameter: 0.25



Data File: /chem/gcms/md.i/D072511I.b/xcdg254.d

Report Date: 25-Jul-2011 17:17

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Semivolatile Organic Compounds by GC/MS

Data file : /chem/gcms/md.i/D072511I.b/xcdg254.d
 Lab Smp Id: XCDG254 Client Smp ID: STD060
 Inj Date : 25-JUL-2011 16:59
 Operator : 60841 Inst ID: md.i
 Smp Info : XCDG254,,1,4,,STD060
 Misc Info : D072511I,8270a9,8270x.sub
 Comment : Semivolatile Organic Compounds by GC/MS
 Method : /var/chem/gcms/md.i/D072511I.b/8270a9.m
 Meth Date : 25-Jul-2011 17:17 chemist Quant Type: ISTD
 Cal Date : 25-JUL-2011 16:59 Cal File: xcdg254.d
 Als bottle: 1 Calibration Sample, Level: 4
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: 8270x.sub
 Target Version: 3.50
 Processing Host: qmidhp01

Concentration Formula: Amt * DF * Vt*Sf/Ws * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	1000.00000	Volume of final extract (uL) (1000 low, 2
Sf	1.00000	Prep Split Factor
Ws	30.00000	Weight of sample extracted (g)

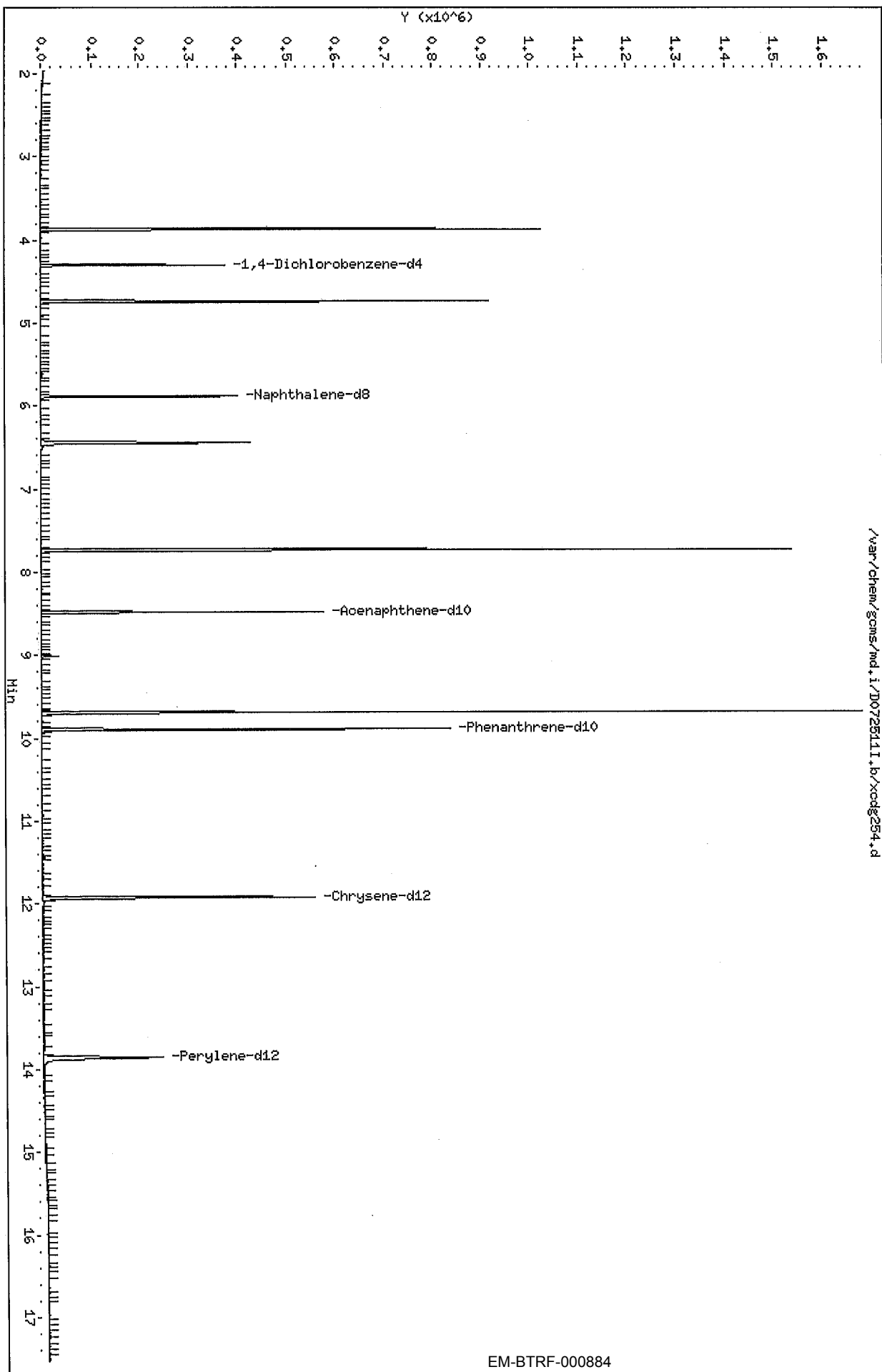
Cpnd Variable

Local Compound Variable

Compounds	QUANT SIG	MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
							CAL-AMT (ng/uL)	ON-COL (ng/uL)
* 1 1,4-Dichlorobenzene-d4	152	4.301	4.301	(1.000)	48030	20.0000	20.0	
* 2 Naphthalene-d8	136	5.887	5.887	(1.000)	188212	20.0000	20.0	
* 3 Acenaphthene-d10	164	8.484	8.484	(1.000)	110590	20.0000	20.0	
* 4 Phenanthrene-d10	188	9.895	9.895	(1.000)	226068	20.0000	20.0	
* 5 Chrysene-d12	240	11.928	11.928	(1.000)	213772	20.0000	20.0	
* 6 Perylene-d12	264	13.861	13.861	(1.000)	168516	20.0000	20.0	
184 Benzaldehyde	105	3.872	3.872	(0.900)	140459	60.0000	62.0	
189 Caprolactam	55	6.451	6.451	(1.096)	98982	60.0000	58.6	
188 1,1'-Biphenyl	154	7.738	7.738	(0.912)	526047	60.0000	61.7	
187 Atrazine	200	9.695	9.695	(0.980)	135138	60.0000	59.6	

Data File: /var/chem/gcms/md.i/D0725111.b/xcdg254.d
Date: 25-JUL-2011 16:59
Client ID: STD060
Sample Info: XCDG254, 1,4, STD060
Volume Injected (uL): 1.0
Column phase: Rxi-5 Sil MS

Instrument: md.i
Operator: 60841
Column diameter: 0.25



Data File: /var/chem/gcms/md.i/D072511I.b/xcdg255.d

Report Date: 25-Jul-2011 17:25

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Semivolatile Organic Compounds by GC/MS

Data file : /var/chem/gcms/md.i/D072511I.b/xcdg255.d
 Lab Smp Id: XCDG255 Client Smp ID: STD120
 Inj Date : 25-JUL-2011 16:34
 Operator : 60841 Inst ID: md.i
 Smp Info : XCDG255,,1,5,,STD120
 Misc Info : D072511I,8270a9,8270x.sub
 Comment : Semivolatile Organic Compounds by GC/MS
 Method : /var/chem/gcms/md.i/D072511I.b/8270a9.m
 Meth Date : 25-Jul-2011 17:24 mcgeek Quant Type: ISTD
 Cal Date : 25-JUL-2011 16:34 Cal File: xcdg255.d
 Als bottle: 13 Calibration Sample, Level: 5
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: 8270x.sub
 Target Version: 3.50
 Processing Host: qmidhp01

Concentration Formula: Amt * DF * Vt*Sf/Ws * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	1000.00000	Volume of final extract (uL) (1000 low, 2
Sf	1.00000	Prep Split Factor
Ws	30.00000	Weight of sample extracted (g)

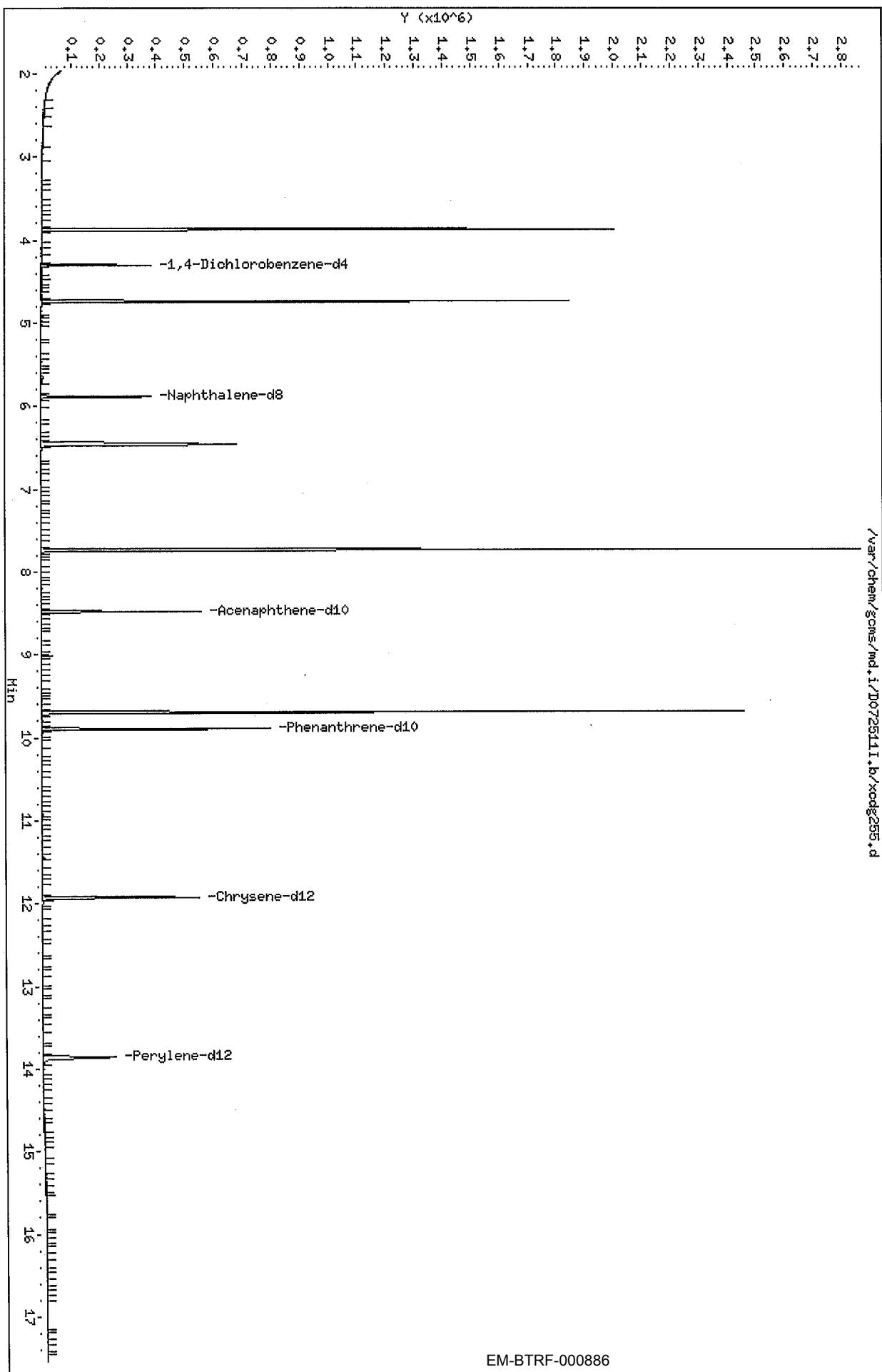
Cpnd Variable

Local Compound Variable

Compounds	QUANT SIG	MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
							CAL-AMT (ng/uL)	ON-COL (ng/uL)
* 1 1,4-Dichlorobenzene-d4	=====	152	4.301	4.301	(1.000)	48536	20.0000	20.0
* 2 Naphthalene-d8	=====	136	5.887	5.887	(1.000)	182312	20.0000	20.0
* 3 Acenaphthene-d10	=====	164	8.484	8.484	(1.000)	108232	20.0000	20.0
* 4 Phenanthrene-d10	=====	188	9.895	9.895	(1.000)	213920	20.0000	20.0
* 5 Chrysene-d12	=====	240	11.928	11.928	(1.000)	204979	20.0000	20.0
* 6 Perylene-d12	=====	264	13.861	13.861	(1.000)	167539	20.0000	20.0
184 Benzaldehyde	=====	105	3.872	3.872	(0.900)	270282	120.000	118
189 Caprolactam	=====	55	6.463	6.463	(1.098)	194813	120.000	119
188 1,1'-Biphenyl	=====	154	7.738	7.738	(0.912)	982887	120.000	118
187 Atrazine	=====	200	9.701	9.701	(0.980)	260362	120.000	121

Data File: /var/chem/gcms/md.i/D072511.i.b/xcdg255.d
Date: 25-JUL-2011 16:34
Client ID: STD120
Sample Info: XCDG255, 1,5, STD120
Volume Injected (ul): 1.0
Column phase: Rxi-5 Sil MS

Instrument: md.i
Operator: 60841
Column diameter: 0.25



Data File: /var/chem/gcms/md.i/D072511I.b/xcdg258.d

Report Date: 25-Jul-2011 17:25

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Semivolatile Organic Compounds by GC/MS

Data file : /var/chem/gcms/md.i/D072511I.b/xcdg258.d
 Lab Smp Id: XCDG258 Client Smp ID: STD200
 Inj Date : 25-JUL-2011 16:09
 Operator : 60841 Inst ID: md.i
 Smp Info : XCDG258,,1,8,,STD200
 Misc Info : D072511I,8270a9,8270x.sub
 Comment : Semivolatile Organic Compounds by GC/MS
 Method : /var/chem/gcms/md.i/D072511I.b/8270a9.m
 Meth Date : 25-Jul-2011 17:25 mcgeek Quant Type: ISTD
 Cal Date : 25-JUL-2011 16:09 Cal File: xcdg258.d
 Als bottle: 12 Calibration Sample, Level: 8
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: 8270x.sub
 Target Version: 3.50
 Processing Host: qmidhp01

Concentration Formula: Amt * DF * Vt*Sf/Ws * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	1000.00000	Volume of final extract (uL) (1000 low, 2
Sf	1.00000	Prep Split Factor
Ws	30.00000	Weight of sample extracted (g)

Cpnd Variable

Local Compound Variable

Compounds	QUANT SIG	MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
							CAL-AMT (ng/uL)	ON-COL (ng/uL)
* 1 1,4-Dichlorobenzene-d4	=====	152	4.301	4.301	(1.000)	49238	20.0000	20.0
* 2 Naphthalene-d8	=====	136	5.888	5.888	(1.000)	186321	20.0000	20.0
* 3 Acenaphthene-d10	=====	164	8.485	8.485	(1.000)	109756	20.0000	20.0
* 4 Phenanthrene-d10	=====	188	9.895	9.895	(1.000)	227167	20.0000	20.0
* 5 Chrysene-d12	=====	240	11.928	11.928	(1.000)	214896	20.0000	20.0
* 6 Perylene-d12	=====	264	13.861	13.861	(1.000)	177211	20.0000	20.0
184 Benzaldehyde	=====	105	3.872	3.872	(0.900)	455275	200.000	196
189 Caprolactam	=====	55	6.475	6.475	(1.100)	344255	200.000	206(A)
188 1,1'-Biphenyl	=====	154	7.744	7.744	(0.913)	1674703	200.000	198
187 Atrazine	=====	200	9.701	9.701	(0.980)	452729	200.000	199

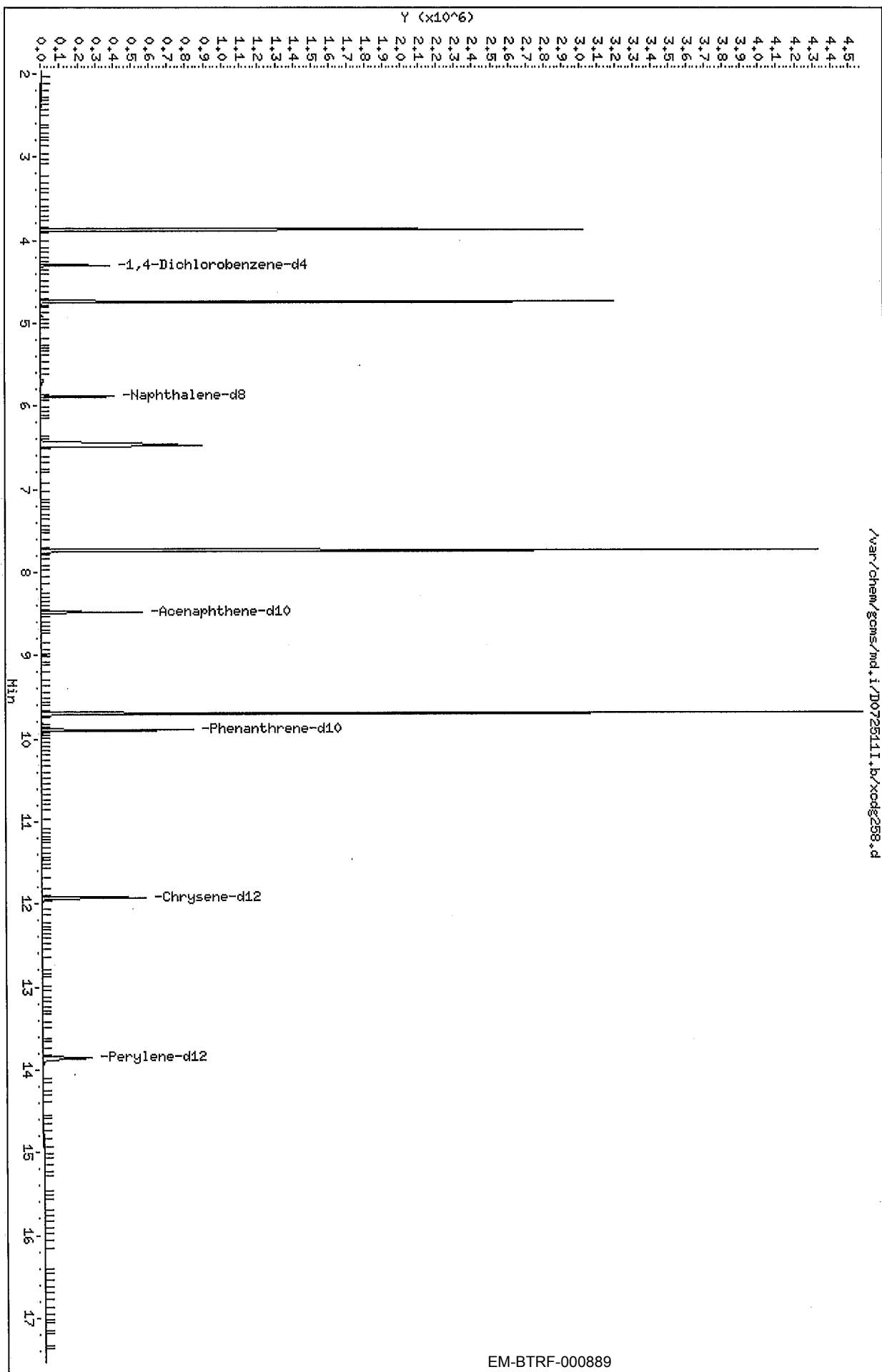
Data File: /var/chem/gcms/md.i/D072511I.b/xcdg258.d
Report Date: 25-Jul-2011 17:25

QC Flag Legend

A - Target compound detected but, quantitated amount
exceeded maximum amount.

Data File: /var/chem/gcms/md.i/D072511.b/xcdg258.d
Date: 25-JUL-2011 16:09
Client ID: STD200
Sample Info: XCDG258,1,8,STD200
Volume Injected (uL): 1.0
Column phase: Rxi-5 Sil MS

Instrument: md.i
Operator: 60841
Column diameter: 0.25



Data File: /var/chem/gcms/md.i/D072511I.b/xcvdg25.d

Report Date: 26-Jul-2011 08:34

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Semivolatile Organic Compounds by GC/MS

Data file : /var/chem/gcms/md.i/D072511I.b/xcvdg25.d

Lab Smp Id: XCVDG25

Client Smp ID: 2ND SOURCE

Inj Date : 25-JUL-2011 19:04

Operator : 60841

Inst ID: md.i

Smp Info : XCVDG25,,3,,,2ND SOURCE

Misc Info : D072511I,8270a9,8270x.sub

Comment : Semivolatile Organic Compounds by GC/MS

Method : /var/chem/gcms/md.i/D072511I.b/8270a9.m

Meth Date : 25-Jul-2011 19:00 mcgeek

Quant Type: ISTD

Cal Date : 25-JUL-2011 18:39

Cal File: xcdg256.d

Als bottle: 19

QC Sample: BLANK

Dil Factor: 1.00000

Integrator: HP RTE

Compound Sublist: 8270x.sub

Target Version: 3.50

Processing Host: qmidhp01

Concentration Formula: Amt * DF * Vt*Sf/Ws * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	1000.00000	Volume of final extract (uL) (1000 low, 2
Sf	1.00000	Prep Split Factor
Ws	30.00000	Weight of sample extracted (g)

Cpnd Variable

Local Compound Variable

Compounds	QUANT SIG	MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN (ng/uL)	FINAL (ug/Kg)
* 1 1,4-Dichlorobenzene-d4	=====	152	4.301	4.301	(1.000)	49540	20.0000	20.0
* 2 Naphthalene-d8	=====	136	5.888	5.887	(1.000)	188164	20.0000	20.0
* 3 Acenaphthene-d10	=====	164	8.485	8.485	(1.000)	113195	20.0000	20.0
* 4 Phenanthrene-d10	=====	188	9.895	9.895	(1.000)	229207	20.0000	20.0
* 5 Chrysene-d12	=====	240	11.928	11.928	(1.000)	222090	20.0000	20.0
* 6 Perylene-d12	=====	264	13.861	13.861	(1.000)	186566	20.0000	20.0
184 Benzaldehyde	=====	105	3.872	3.872	(0.900)	135615	57.8894	1930
189 Caprolactam	=====	55	6.446	6.434	(1.095)	89091	55.2130	1840
188 1,1'-Biphenyl	=====	154	7.738	7.738	(0.912)	488491	54.4619	1820
187 Atrazine	=====	200	9.695	9.689	(0.980)	134973	60.1743	2000

Data File: /var/chem/gcms/md.i/D072511I.b/xcvdg25.d
 Report Date: 26-Jul-2011 08:34

TestAmerica Knoxville

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: md.i	Calibration Date: 25-JUL-2011
Lab File ID: xcvdg25.d	Calibration Time: 16:59
Lab Smp Id: XCVDG25	Client Smp ID: 2ND SOURCE
Analysis Type: SV	Level: LOW
Quant Type: ISTD	Sample Type: SOIL
Operator: 60841	
Method File: /var/chem/gcms/md.i/D072511I.b/8270a9.m	
Misc Info: D072511I,8270a9,8270x.sub	

COMPOUND =====	STANDARD =====	AREA LIMIT		SAMPLE =====	%DIFF =====
		LOWER =====	UPPER =====		
1 1,4-Dichlorobenze	48030	24015	96060	49540	3.14
2 Naphthalene-d8	188212	94106	376424	188164	-0.03
3 Acenaphthene-d10	110590	55295	221180	113195	2.36
4 Phenanthrene-d10	226068	113034	452136	229207	1.39
5 Chrysene-d12	213772	106886	427544	222090	3.89
6 Perylene-d12	168516	84258	337032	186566	10.71

COMPOUND =====	STANDARD =====	RT LIMIT		SAMPLE =====	%DIFF =====
		LOWER =====	UPPER =====		
1 1,4-Dichlorobenze	4.30	3.80	4.80	4.30	0.00
2 Naphthalene-d8	5.89	5.39	6.39	5.89	0.00
3 Acenaphthene-d10	8.48	7.98	8.98	8.48	0.00
4 Phenanthrene-d10	9.89	9.39	10.39	9.89	0.00
5 Chrysene-d12	11.93	11.43	12.43	11.93	0.00
6 Perylene-d12	13.86	13.36	14.36	13.86	0.00

AREA UPPER LIMIT = +100% of internal standard area.
 AREA LOWER LIMIT = - 50% of internal standard area.
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /var/chem/gcms/md.i/D072511I.b/xcvdg25.d
Report Date: 26-Jul-2011 08:34

TestAmerica Knoxville

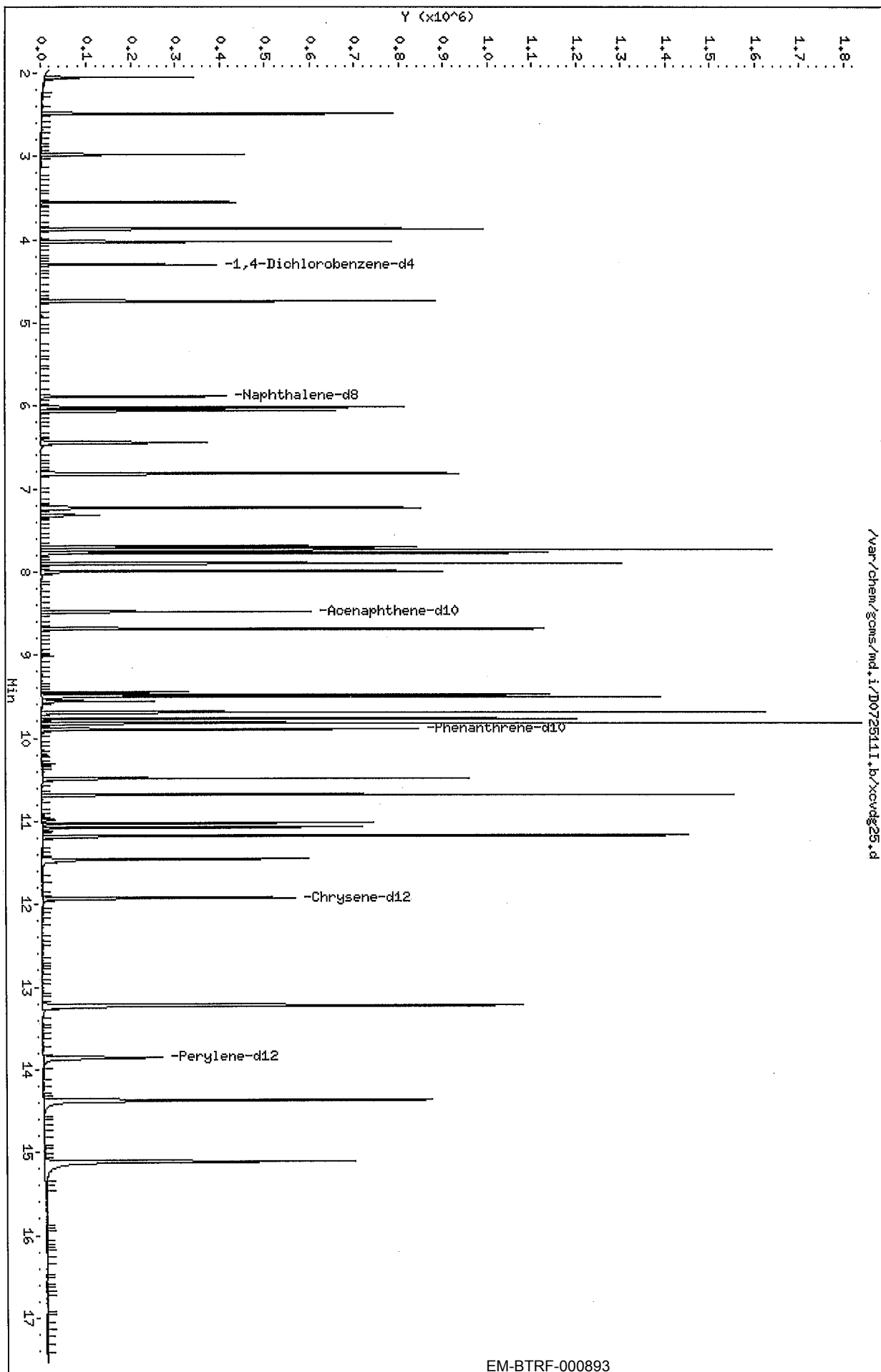
RECOVERY REPORT

Client Name: Client SDG: D072511I
Sample Matrix: SOLID Fraction: SV
Lab Smp Id: XCVDG25 Client Smp ID: 2ND SOURCE
Level: LOW Operator: 60841
Data Type: MS DATA SampleType: BLANK
SpikeList File: 8270xlcs.spk Quant Type: ISTD
Sublist File: 8270x.sub
Method File: /var/chem/gcms/md.i/D072511I.b/8270a9.m
Misc Info: D072511I,8270a9,8270x.sub

SPIKE COMPOUND	CONC ADDED ug/Kg	CONC RECOVERED ug/Kg	% RECOVERED	LIMITS
184 Benzaldehyde	2000	1930	96.48	70-130
189 Caprolactam	2000	1840	92.02	70-130
188 1,1'-Biphenyl	2000	1820	90.77	70-130
187 Atrazine	2000	2000	100.29	70-130

Data File: /var/chem/gcms/md.i/D0725111.b/xcvd&25.d
Date: 25-JUL-2011 19:04
Client ID: 2ND SOURCE
Sample Info: XCVDC25,3,,2ND SOURCE
Volume Injected (uL): 1.0
Column Phase: Rxi-5 Sil MS

Instrument: md.i
Operator: 60841
Column diameter: 0.25



EM-BTRF-000893

Data File: /var/chem/gcms/md.i/D072611I.b/xpdg267.d

Report Date: 26-Jul-2011 14:38

TestAmerica Knoxville

Semivolatile Organic Compounds by GC/MS

Data file : /var/chem/gcms/md.i/D072611I.b/xpdg267.d
 Lab Smp Id: XPDG267 Client Smp ID: STD002
 Inj Date : 26-JUL-2011 13:45
 Operator : 60841 Inst ID: md.i
 Smp Info : XPDG267,,1,7,,STD002
 Misc Info : D072611I,8270a9,pahextra.sub
 Comment : Semivolatile Organic Compounds by GC/MS
 Method : /var/chem/gcms/md.i/D072611I.b/8270a9.m
 Meth Date : 26-Jul-2011 14:38 mcgeek Quant Type: ISTD
 Cal Date : 26-JUL-2011 13:45 Cal File: xpdg267.d
 Als bottle: 10 Calibration Sample, Level: 7
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: alleextra.sub
 Target Version: 3.50
 Processing Host: qmidhp01

Concentration Formula: Amt * DF * Vt*Sf/Ws * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	1000.00000	Volume of final extract (uL) (1000 low, 2
Sf	1.00000	Prep Split Factor
Ws	30.00000	Weight of sample extracted (g)

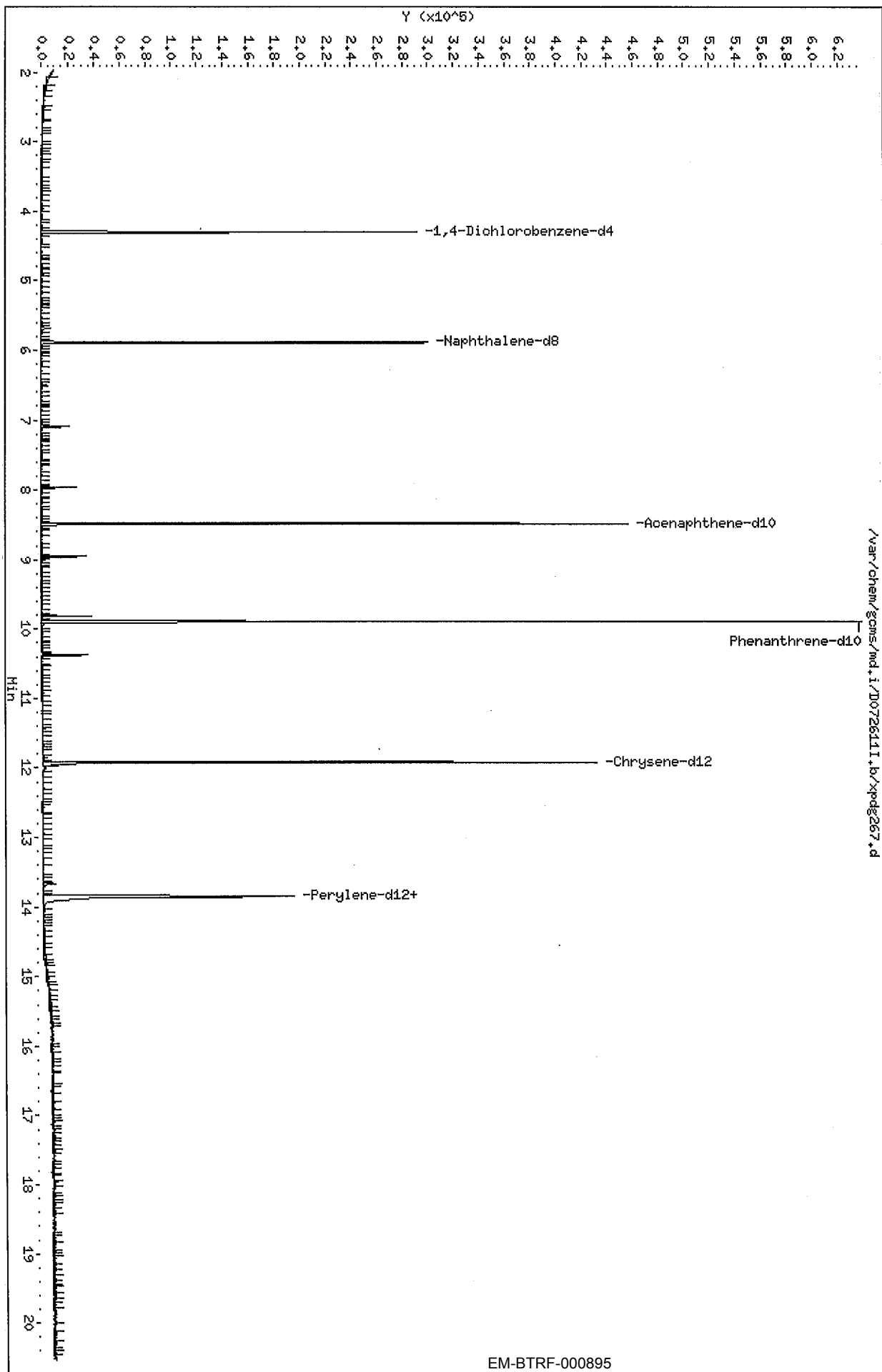
Cpnd Variable

Local Compound Variable

Compounds	QUANT SIG	MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
							CAL-AMT (ng/uL)	ON-COL (ng/uL)
* 1 1,4-Dichlorobenzene-d4	=====	152	4.301	4.301	(1.000)	41591	20.0000	20.0
* 2 Naphthalene-d8	=====	136	5.893	5.893	(1.000)	151215	20.0000	20.0
* 3 Acenaphthene-d10	=====	164	8.484	8.484	(1.000)	88958	20.0000	20.0
* 4 Phenanthrene-d10	=====	188	9.895	9.895	(1.000)	173782	20.0000	20.0
* 5 Chrysene-d12	=====	240	11.922	11.922	(1.000)	164289	20.0000	20.0
* 6 Perylene-d12	=====	264	13.849	13.849	(1.000)	136723	20.0000	20.0
197 1-methylnaphthalene	=====	142	7.098	7.098	(1.204)	7806	2.00000	1.71
192 2,6-Dimethylnaphthalene	=====	156	7.962	7.962	(0.938)	6586	2.00000	1.54
193 2,3,5-Trimethylnaphthalene	=====	170	8.955	8.955	(0.905)	5920	2.00000	1.51
194 Dibenzothiopene	=====	184	9.812	9.812	(0.992)	12726	2.00000	1.69
195 1-Methylphenanthrene	=====	192	10.376	10.376	(1.049)	8475	2.00000	1.46
85 Benzo(e)pyrene	=====	252	13.661	13.661	(0.986)	7905	2.00000	1.15
196 Perylene	=====	252	13.896	13.896	(1.003)	11518	2.00000	1.67

Data File: /var/chem/gcms/md.i/D0726411.b/xpdg267.d
Date: 26-JUL-2011 13:45
Client ID: STD002
Sample Info: XPDG267, 1,7, STD002
Volume Injected (uL): 1.0
Column phase: Rxi-5 Sil MS

Instrument: md.i
Operator: 60841
Column diameter: 0.25



Data File: /var/chem/gcms/md.i/D072611I.b/xpdg266.d

Report Date: 26-Jul-2011 14:36

TestAmerica Knoxville

Semivolatile Organic Compounds by GC/MS

Data file : /var/chem/gcms/md.i/D072611I.b/xpdg266.d
 Lab Smp Id: XPDG266 Client Smp ID: STD005
 Inj Date : 26-JUL-2011 13:16
 Operator : 60841 Inst ID: md.i
 Smp Info : XPDG266,,1,6,,STD005
 Misc Info : D072611I,8270a9,pahextra.sub
 Comment : Semivolatile Organic Compounds by GC/MS
 Method : /var/chem/gcms/md.i/D072611I.b/8270a9.m
 Meth Date : 26-Jul-2011 14:36 mcgeek Quant Type: ISTD
 Cal Date : 26-JUL-2011 13:16 Cal File: xpdg266.d
 Als bottle: 9 Calibration Sample, Level: 6
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: alleextra.sub
 Target Version: 3.50
 Processing Host: qmidhp01

Concentration Formula: Amt * DF * Vt*Sf/Ws * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	1000.00000	Volume of final extract (uL) (1000 low, 2
Sf	1.00000	Prep Split Factor
Ws	30.00000	Weight of sample extracted (g)

Cpnd Variable

Local Compound Variable

Compounds	QUANT SIG	MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
							CAL-AMT (ng/uL)	ON-COL (ng/uL)
* 1 1,4-Dichlorobenzene-d4	=====	152	4.301	4.301	(1.000)	46595	20.0000	20.0
* 2 Naphthalene-d8	=====	136	5.887	5.887	(1.000)	170462	20.0000	20.0
* 3 Acenaphthene-d10	=====	164	8.484	8.484	(1.000)	98030	20.0000	20.0
* 4 Phenanthrene-d10	=====	188	9.895	9.895	(1.000)	195957	20.0000	20.0
* 5 Chrysene-d12	=====	240	11.922	11.922	(1.000)	190918	20.0000	20.0
* 6 Perylene-d12	=====	264	13.849	13.849	(1.000)	162701	20.0000	20.0
199 Phentermine	=====	58	5.676	5.676	(0.964)	21491	5.00000	3.52
202 1,4-Phenylenediamine	=====	108	6.504	6.504	(1.105)	9466	5.00000	3.13
197 1-methylnaphthalene	=====	142	7.098	7.098	(1.206)	25370	5.00000	4.92
192 2,6-Dimethylnaphthalene	=====	156	7.961	7.961	(0.938)	21903	5.00000	4.64
193 2,3,5-Trimethylnaphthalene	=====	170	8.954	8.954	(0.905)	20518	5.00000	4.65
194 Dibenzothiopene	=====	184	9.812	9.812	(0.992)	42017	5.00000	4.96
195 1-Methylphenanthrene	=====	192	10.376	10.376	(1.049)	30118	5.00000	4.61
200 3,3'-Dimethoxybenzidine	=====	244	11.845	11.845	(0.994)	2579	5.00000	1.50

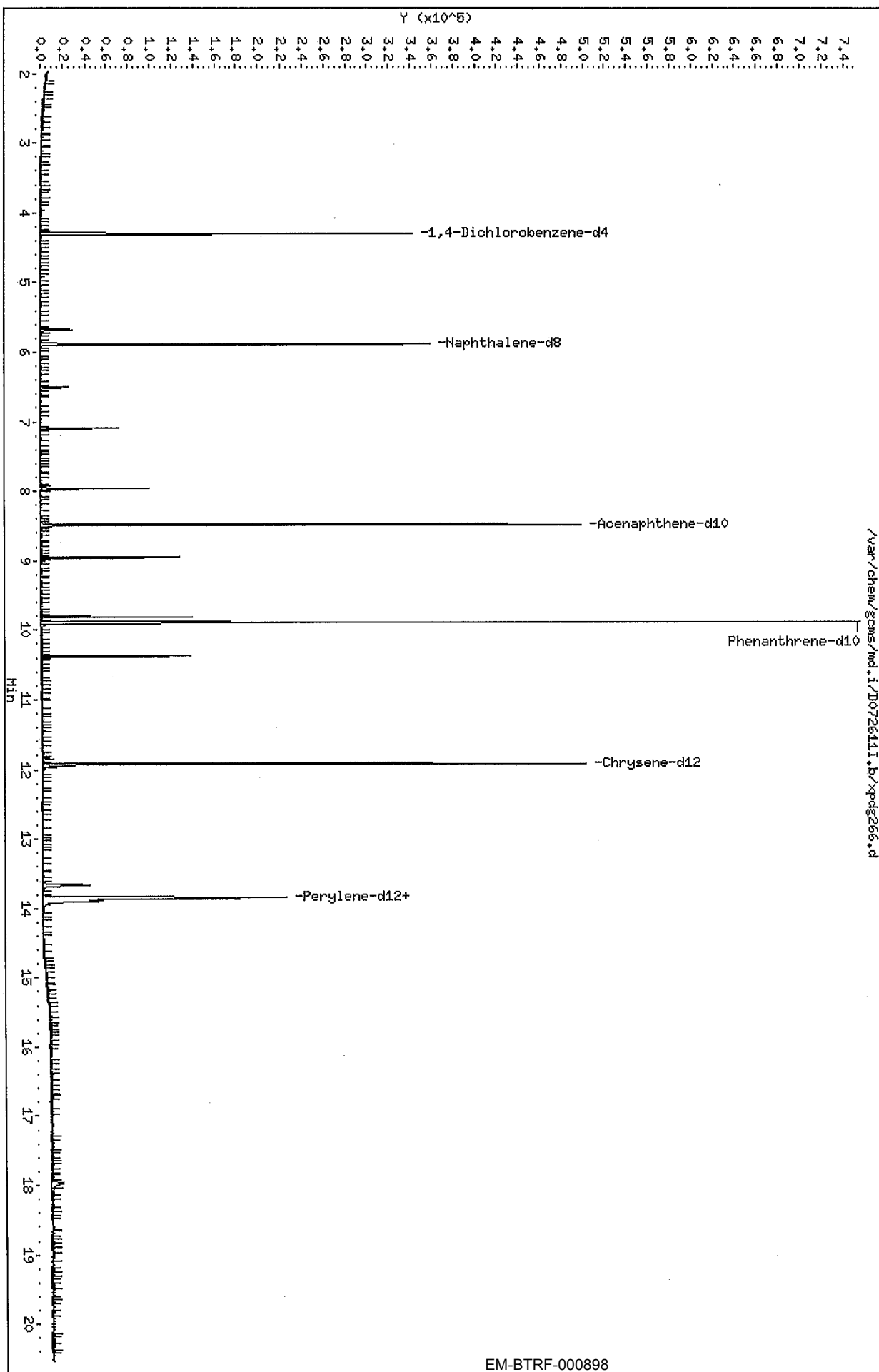
Data File: /var/chem/gcms/md.i/D072611I.b/xpdg266.d

Report Date: 26-Jul-2011 14:36

Compounds	QUANT SIG					AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ng/uL)	ON-COL (ng/uL)
=====	=====	==	=====	=====	=====	=====	=====
85 Benzo(e)pyrene	252	13.661	13.661	(0.986)	32109	5.00000	3.93
196 Perylene	252	13.896	13.896	(1.003)	38203	5.00000	4.65
201 Dibenzo(a,e)pyrene	302	17.968	17.968	(1.297)	9754	5.00000	1.87

Data File: /var/chem/gcms/md.i/D0726111.b/xpdg266.d
Date : 26-JUL-2011 13:16
Client ID: STD005
Sample Info: XPDG266,1,6,,STD005
Volume Injected (uL): 1.0
Column phase: Rxi-5 Sil MS

Instrument: md.i
Operator: 60841
Column diameter: 0.25



Data File: /var/chem/gcms/md.i/D072611I.b/xpdg261.d

Report Date: 26-Jul-2011 14:35

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Semivolatile Organic Compounds by GC/MS

Data file : /var/chem/gcms/md.i/D072611I.b/xpdg261.d
 Lab Smp Id: XPDG261 Client Smp ID: STD010
 Inj Date : 26-JUL-2011 12:48
 Operator : 60841 Inst ID: md.i
 Smp Info : XPDG261,,1,1,,STD010
 Misc Info : D072611I,8270a9,pahextra.sub
 Comment : Semivolatile Organic Compounds by GC/MS
 Method : /var/chem/gcms/md.i/D072611I.b/8270a9.m
 Meth Date : 26-Jul-2011 14:35 mcgeek Quant Type: ISTD
 Cal Date : 26-JUL-2011 12:48 Cal File: xpdg261.d
 Als bottle: 8 Calibration Sample, Level: 1
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: alleextra.sub
 Target Version: 3.50
 Processing Host: qmidhp01

Concentration Formula: Amt * DF * Vt*Sf/Ws * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	1000.00000	Volume of final extract (uL) (1000 low, 2
Sf	1.00000	Prep Split Factor
Ws	30.00000	Weight of sample extracted (g)

Cpnd Variable

Local Compound Variable

Compounds	QUANT SIG	MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
							CAL-AMT (ng/uL)	ON-COL (ng/uL)
* 1 1,4-Dichlorobenzene-d4	152	4.301	4.301	(1.000)	45912	20.0000	20.0	
* 2 Naphthalene-d8	136	5.888	5.888	(1.000)	175398	20.0000	20.0	
* 3 Acenaphthene-d10	164	8.485	8.485	(1.000)	102303	20.0000	20.0	
* 4 Phenanthrene-d10	188	9.895	9.895	(1.000)	200033	20.0000	20.0	
* 5 Chrysene-d12	240	11.922	11.922	(1.000)	197882	20.0000	20.0	
* 6 Perylene-d12	264	13.849	13.849	(1.000)	169282	20.0000	20.0	
199 Phentermine	58	5.670	5.670	(0.963)	50058	10.0000	7.98	
202 1,4-Phenylenediamine	108	6.504	6.504	(1.105)	23562	10.0000	7.57	
197 1-methylnaphthalene	142	7.092	7.092	(1.205)	50940	10.0000	9.60	
192 2,6-Dimethylnaphthalene	156	7.962	7.962	(0.938)	45882	10.0000	9.32	
193 2,3,5-Trimethylnaphthalene	170	8.955	8.955	(0.905)	41839	10.0000	9.28	
194 Dibenzothiopene	184	9.812	9.812	(0.992)	82880	10.0000	9.59	
195 1-Methylphenanthrene	192	10.376	10.376	(1.049)	63184	10.0000	9.48	
200 3,3'-Dimethoxybenzidine	244	11.845	11.845	(0.994)	6756	10.0000	3.80	

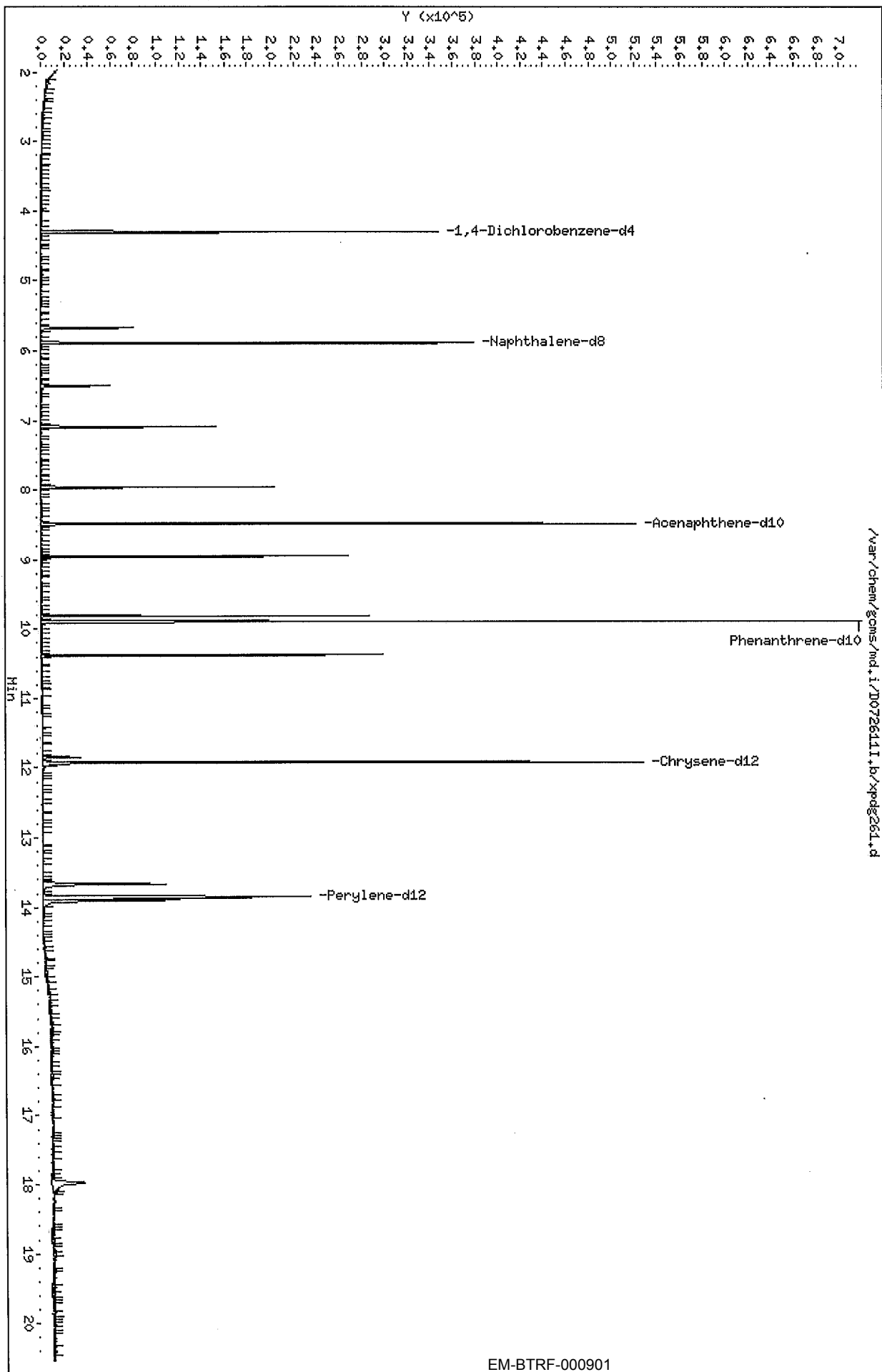
Data File: /var/chem/gcms/md.i/D072611I.b/xpdg261.d

Report Date: 26-Jul-2011 14:35

Compounds	QUANT SIG					AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ng/uL)	ON-COL (ng/uL)
=====	=====	==	=====	=====	=====	=====	=====
85 Benzo(e)pyrene	252	13.661	13.661	(0.986)	75507	10.0000	9.98
196 Perylene	252	13.896	13.896	(1.003)	82614	10.0000	9.66
201 Dibenzo(a,e)pyrene	302	17.974	17.974	(1.298)	37049	10.0000	7.10

Data File: /var/chem/gcms/md.i/D0726111.b/xpdg261.d
Date: 26-JUL-2011 12:48
Client ID: STD010
Sample Info: XPDG261,1,1,STD010
Volume Injected (uL): 1.0
Column phase: Rxi-5 Sil MS

Instrument: md.i
Operator: 60841
Column diameter: 0.25



Data File: /var/chem/gcms/md.i/D072611I.b/xpdg262.d

Report Date: 26-Jul-2011 14:34

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Semivolatile Organic Compounds by GC/MS

Data file : /var/chem/gcms/md.i/D072611I.b/xpdg262.d
 Lab Smp Id: XPDG262 Client Smp ID: STD025
 Inj Date : 26-JUL-2011 12:19
 Operator : 60841 Inst ID: md.i
 Smp Info : XPDG262,,1,2,,STD025
 Misc Info : D072611I,8270a9,pahextra.sub
 Comment : Semivolatile Organic Compounds by GC/MS
 Method : /var/chem/gcms/md.i/D072611I.b/8270a9.m
 Meth Date : 26-Jul-2011 14:34 mcgeek Quant Type: ISTD
 Cal Date : 26-JUL-2011 12:19 Cal File: xpdg262.d
 Als bottle: 7 Calibration Sample, Level: 2
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: alleextra.sub
 Target Version: 3.50
 Processing Host: qmidhp01

Concentration Formula: Amt * DF * Vt*Sf/Ws * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	1000.00000	Volume of final extract (uL) (1000 low, 2
Sf	1.00000	Prep Split Factor
Ws	30.00000	Weight of sample extracted (g)

Cpnd Variable

Local Compound Variable

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
						CAL-AMT (ng/uL)	ON-COL (ng/uL)
* 1 1,4-Dichlorobenzene-d4	152	4.301	4.301	(1.000)	45742	20.0000	20.0
* 2 Naphthalene-d8	136	5.887	5.887	(1.000)	170422	20.0000	20.0
* 3 Acenaphthene-d10	164	8.484	8.484	(1.000)	95785	20.0000	20.0
* 4 Phenanthrene-d10	188	9.895	9.895	(1.000)	190814	20.0000	20.0
* 5 Chrysene-d12	240	11.922	11.922	(1.000)	194053	20.0000	20.0
* 6 Perylene-d12	264	13.855	13.855	(1.000)	175418	20.0000	20.0
199 Phentermine	58	5.664	5.664	(0.962)	142951	25.0000	23.4
202 1,4-Phenylenediamine	108	6.498	6.498	(1.104)	69603	25.0000	23.0
197 1-methylnaphthalene	142	7.092	7.092	(1.205)	126731	25.0000	24.6
192 2,6-Dimethylnaphthalene	156	7.962	7.962	(0.938)	118351	25.0000	25.7
193 2,3,5-Trimethylnaphthalene	170	8.954	8.954	(0.905)	108694	25.0000	25.3
194 Dibenzothiopene	184	9.812	9.812	(0.992)	206295	25.0000	25.0
195 1-Methylphenanthrene	192	10.376	10.376	(1.049)	160621	25.0000	25.2
200 3,3'-Dimethoxybenzidine	244	11.851	11.851	(0.994)	31828	25.0000	18.2

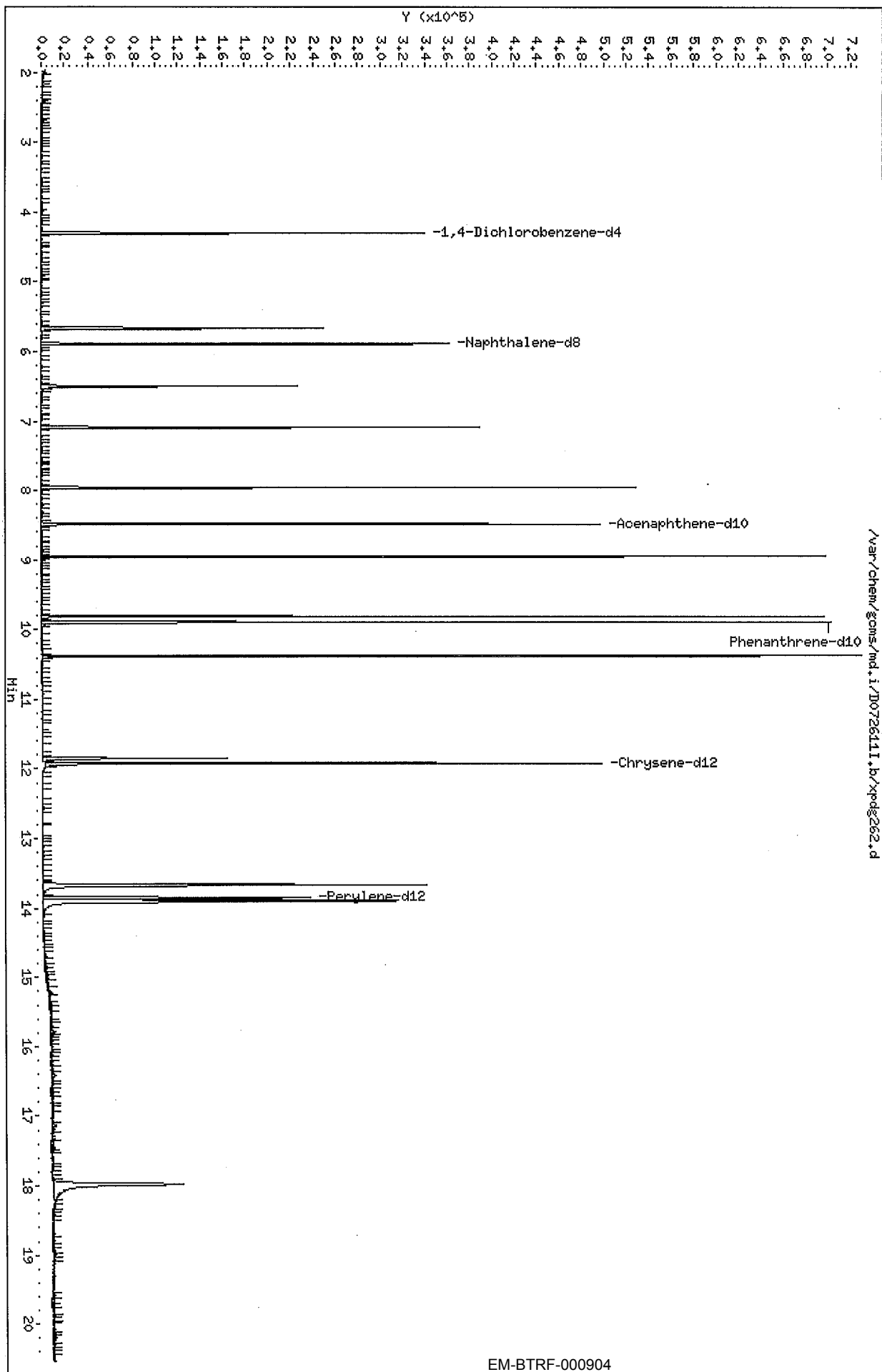
Data File: /var/chem/gcms/md.i/D072611I.b/xpdg262.d

Report Date: 26-Jul-2011 14:34

Compounds	QUANT SIG						AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT	ON-COL	
						(ng/uL)	(ng/uL)	
=====	=====	==	=====	=====	=====	=====	=====	
85 Benzo(e)pyrene	252	13.667	13.667	(0.986)	216945	25.0000	27.3	
196 Perylene	252	13.902	13.902	(1.003)	221511	25.0000	25.0	
201 Dibenzo(a,e)pyrene	302	17.979	17.979	(1.298)	129784	25.0000	24.0	

Data File: /var/chem/gcms/md.i/D0726111.b/xpds262.d
Date: 26-JUL-2011 12:19
Client ID: STD025
Sample Info: XPDS262,1,2,STD025
Volume Injected (uL): 1.0
Column phase: Rxi-5 Sil MS

Instrument: md.i
Operator: 60841
Column diameter: 0.25



Data File: /var/chem/gcms/md.i/D072611I.b/xpdg263.d
 Report Date: 26-Jul-2011 14:34

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Semivolatile Organic Compounds by GC/MS

Data file : /var/chem/gcms/md.i/D072611I.b/xpdg263.d
 Lab Smp Id: XPDG263 Client Smp ID: STD040
 Inj Date : 26-JUL-2011 11:50
 Operator : 60841 Inst ID: md.i
 Smp Info : XPDG263,,1,3,,STD040
 Misc Info : D072611I,8270a9,pahextra.sub
 Comment : Semivolatile Organic Compounds by GC/MS
 Method : /var/chem/gcms/md.i/D072611I.b/8270a9.m
 Meth Date : 26-Jul-2011 14:34 mcgeek Quant Type: ISTD
 Cal Date : 26-JUL-2011 11:50 Cal File: xpdg263.d
 Als bottle: 6 Calibration Sample, Level: 3
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: alleextra.sub
 Target Version: 3.50
 Processing Host: qmidhp01

Concentration Formula: Amt * DF * Vt*Sf/Ws * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	1000.00000	Volume of final extract (uL) (1000 low, 2
Sf	1.00000	Prep Split Factor
Ws	30.00000	Weight of sample extracted (g)

Cpnd Variable

Local Compound Variable

Compounds	QUANT SIG	MASS	RT	EXP RT	RBL RT	RESPONSE	AMOUNTS	
							CAL-AMT (ng/uL)	ON-COL (ng/uL)
* 1 1,4-Dichlorobenzene-d4	152	4.301	4.301	(1.000)	45135	20.0000	20.0	
* 2 Naphthalene-d8	136	5.888	5.888	(1.000)	174735	20.0000	20.0	
* 3 Acenaphthene-d10	164	8.485	8.485	(1.000)	102671	20.0000	20.0	
* 4 Phenanthrene-d10	188	9.895	9.895	(1.000)	200284	20.0000	20.0	
* 5 Chrysene-d12	240	11.922	11.922	(1.000)	209733	20.0000	20.0	
* 6 Perylene-d12	264	13.855	13.855	(1.000)	191281	20.0000	20.0	
199 Phentermine	58	5.664	5.664	(0.962)	255847	40.0000	40.9	
202 1,4-Phenylenediamine	108	6.499	6.499	(1.104)	130636	40.0000	42.1	
197 1-methylnaphthalene	142	7.092	7.092	(1.205)	211129	40.0000	40.0	
192 2,6-Dimethylnaphthalene	156	7.962	7.962	(0.938)	206098	40.0000	41.7	
193 2,3,5-Trimethylnaphthalene	170	8.955	8.955	(0.905)	185134	40.0000	41.0	
194 Dibenzothiopene	184	9.812	9.812	(0.992)	349372	40.0000	40.4	
195 1-Methylphenanthrene	192	10.376	10.376	(1.049)	278168	40.0000	41.7	
200 3,3'-Dimethoxybenzidine	244	11.851	11.851	(0.994)	72723	40.0000	38.6	

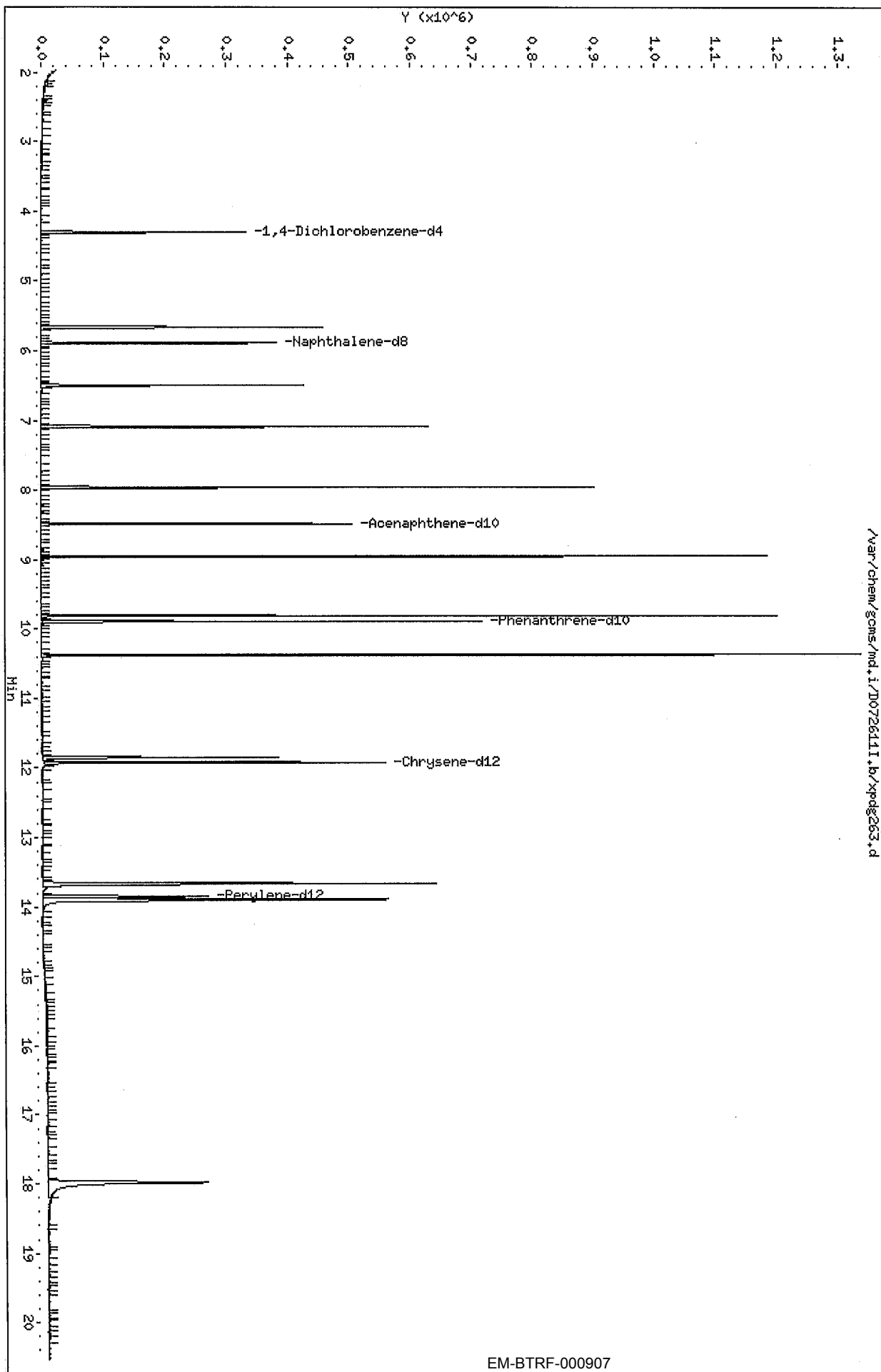
Data File: /var/chem/gcms/md.i/D072611I.b/xpdg263.d

Report Date: 26-Jul-2011 14:34

Compounds	QUANT SIG						AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE		CAL-AMT	ON-COL
							(ng/uL)	(ng/uL)
=====	=====	==	=====	=====	=====		=====	=====
85 Benzo(e)pyrene	252	13.667	13.667	(0.986)	388947		40.0000	44.7
196 Perylene	252	13.902	13.902	(1.003)	392194		40.0000	40.6
201 Dibenzo(a,e)pyrene	302	17.985	17.985	(1.298)	263967		40.0000	44.7

Data File: /var/chem/gcms/md.i/D0726111.b/xpds263.d
Date: 26-JUL-2011 11:50
Client ID: STD040
Sample Info: XPDS263, 1,3, STD040
Volume Injected (uL): 1.0
Column phase: Rxi-5 Sil MS

Instrument: md.i
Operator: 60841
Column diameter: 0.25



Data File: /var/chem/gcms/md.i/D072611I.b/xpdg264.d

Report Date: 26-Jul-2011 14:33

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Semivolatile Organic Compounds by GC/MS

Data file : /var/chem/gcms/md.i/D072611I.b/xpdg264.d
 Lab Smp Id: XPDG264 Client Smp ID: STD060
 Inj Date : 26-JUL-2011 11:21
 Operator : 60841 Inst ID: md.i
 Smp Info : XPDG264,,1,4,,STD060
 Misc Info : D072611I,8270a9,pahextra.sub
 Comment : Semivolatile Organic Compounds by GC/MS
 Method : /var/chem/gcms/md.i/D072611I.b/8270a9.m
 Meth Date : 26-Jul-2011 14:33 mcgeek Quant Type: ISTD
 Cal Date : 26-JUL-2011 11:21 Cal File: xpdg264.d
 Als bottle: 5 Calibration Sample, Level: 4
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: alleextra.sub
 Target Version: 3.50
 Processing Host: qmidhp01

Concentration Formula: Amt * DF * Vt*Sf/Ws * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	1000.00000	Volume of final extract (uL) (1000 low, 2
Sf	1.00000	Prep Split Factor
Ws	30.00000	Weight of sample extracted (g)

Cpnd Variable

Local Compound Variable

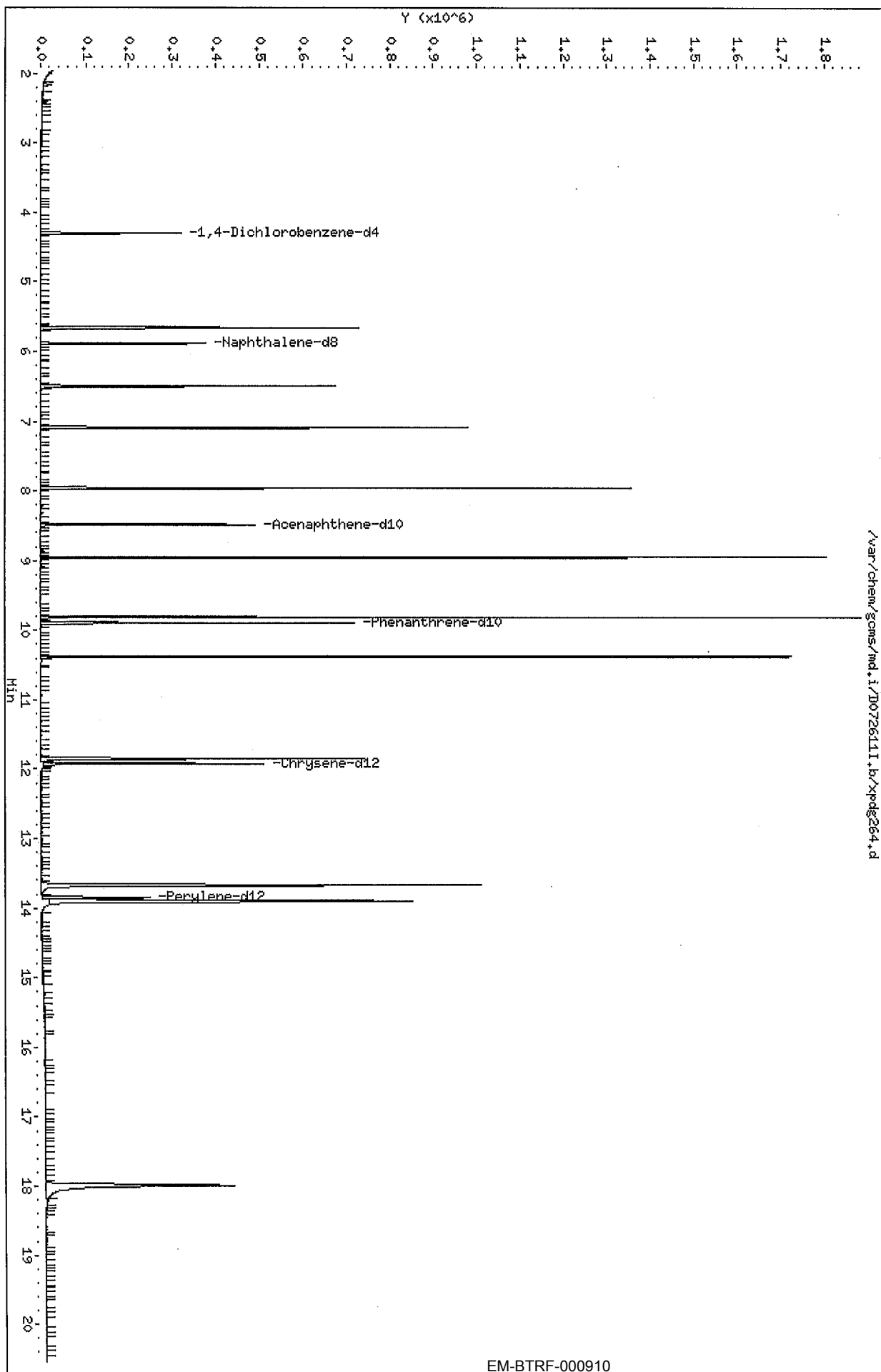
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
						CAL-AMT (ng/uL)	ON-COL (ng/uL)
* 1 1,4-Dichlorobenzene-d4	152	4.307	4.307	(1.000)	45320	20.0000	20.0
* 2 Naphthalene-d8	136	5.888	5.888	(1.000)	171005	20.0000	20.0
* 3 Acenaphthene-d10	164	8.485	8.485	(1.000)	99776	20.0000	20.0
* 4 Phenanthrene-d10	188	9.895	9.895	(1.000)	194354	20.0000	20.0
* 5 Chrysene-d12	240	11.922	11.922	(1.000)	203342	20.0000	20.0
* 6 Perylene-d12	264	13.855	13.855	(1.000)	185554	20.0000	20.0
199 Phentermine	58	5.664	5.664	(0.962)	413565	60.0000	67.6
202 1,4-Phenylenediamine	108	6.499	6.499	(1.104)	210453	60.0000	69.4
197 1-methylnaphthalene	142	7.092	7.092	(1.205)	330856	60.0000	64.0
192 2,6-Dimethylnaphthalene	156	7.962	7.962	(0.938)	310100	60.0000	64.6
193 2,3,5-Trimethylnaphthalene	170	8.955	8.955	(0.905)	288695	60.0000	65.9
194 Dibenzothiopene	184	9.812	9.812	(0.992)	535291	60.0000	63.7
195 1-Methylphenanthrene	192	10.382	10.382	(1.049)	427873	60.0000	66.0
200 3,3'-Dimethoxybenzidine	244	11.851	11.851	(0.994)	138099	60.0000	75.5

Data File: /var/chem/gcms/md.i/D072611I.b/xpdg264.d
 Report Date: 26-Jul-2011 14:33

Compounds	QUANT SIG					AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ng/uL)	ON-COL (ng/uL)
=====	=====	==	=====	=====	=====	=====	=====
85 Benzo(e)pyrene	252	13.673	13.673	(0.987)	615497	60.0000	88.4
196 Perylene	252	13.908	13.908	(1.004)	608935	60.0000	64.9
201 Dibenzo(a,e)pyrene	302	17.991	17.991	(1.299)	434937	60.0000	76.0

Data File: /var/chem/gcms/md.i/D0726111.b/xpdg264.d
Date: 26-JUL-2011 11:21
Client ID: STD060
Sample Info: XPDG264, 1,4,,STD060
Volume Injected (uL): 1.0
Column Phase: Rxi-5 Sil MS

Instrument: md.i
Operator: 60841
Column diameter: 0.25



Data File: /var/chem/gcms/md.i/D072611I.b/xpdg265.d
 Report Date: 26-Jul-2011 14:33

TestAmerica Knoxville

Semivolatile Organic Compounds by GC/MS

Data file : /var/chem/gcms/md.i/D072611I.b/xpdg265.d
 Lab Smp Id: XPDG265 Client Smp ID: STD120
 Inj Date : 26-JUL-2011 10:52
 Operator : 60841 Inst ID: md.i
 Smp Info : XPDG265,,1,5,,STD120
 Misc Info : D072611I,8270a9,pahextra.sub
 Comment : Semivolatile Organic Compounds by GC/MS
 Method : /var/chem/gcms/md.i/D072611I.b/8270a9.m
 Meth Date : 26-Jul-2011 14:33 mcgeek Quant Type: ISTD
 Cal Date : 26-JUL-2011 10:52 Cal File: xpdg265.d
 Als bottle: 4 Calibration Sample, Level: 5
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: alleextra.sub
 Target Version: 3.50
 Processing Host: qmidhp01

Concentration Formula: Amt * DF * Vt*Sf/Ws * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	1000.00000	Volume of final extract (uL) (1000 low, 2
Sf	1.00000	Prep Split Factor
Ws	30.00000	Weight of sample extracted (g)

Cpnd Variable

Local Compound Variable

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
							CAL-AMT (ng/uL)	ON-COL (ng/uL)
* 1 1,4-Dichlorobenzene-d4	152	====	4.307	4.307	(1.000)	47066	20.0000	20.0
* 2 Naphthalene-d8	136		5.887	5.887	(1.000)	175813	20.0000	20.0
* 3 Acenaphthene-d10	164		8.484	8.484	(1.000)	101908	20.0000	20.0
* 4 Phenanthrene-d10	188		9.894	9.894	(1.000)	199774	20.0000	20.0
* 5 Chrysene-d12	240		11.922	11.922	(1.000)	213626	20.0000	20.0
* 6 Perylene-d12	264		13.855	13.855	(1.000)	192639	20.0000	20.0
199 Phentermine	58		5.664	5.664	(0.962)	913462	120.000	145
202 1,4-Phenylenediamine	108		6.504	6.504	(1.105)	460273	120.000	148
197 1-methylnaphthalene	142		7.098	7.098	(1.206)	688681	120.000	130
192 2,6-Dimethylnaphthalene	156		7.967	7.967	(0.939)	667012	120.000	136
193 2,3,5-Trimethylnaphthalene	170		8.954	8.954	(0.905)	615885	120.000	137
194 Dibenzothiopene	184		9.812	9.812	(0.992)	1111274	120.000	129
195 1-Methylphenanthrene	192		10.382	10.382	(1.049)	910114	120.000	137
200 3,3'-Dimethoxybenzidine	244		11.851	11.851	(0.994)	367482	120.000	191

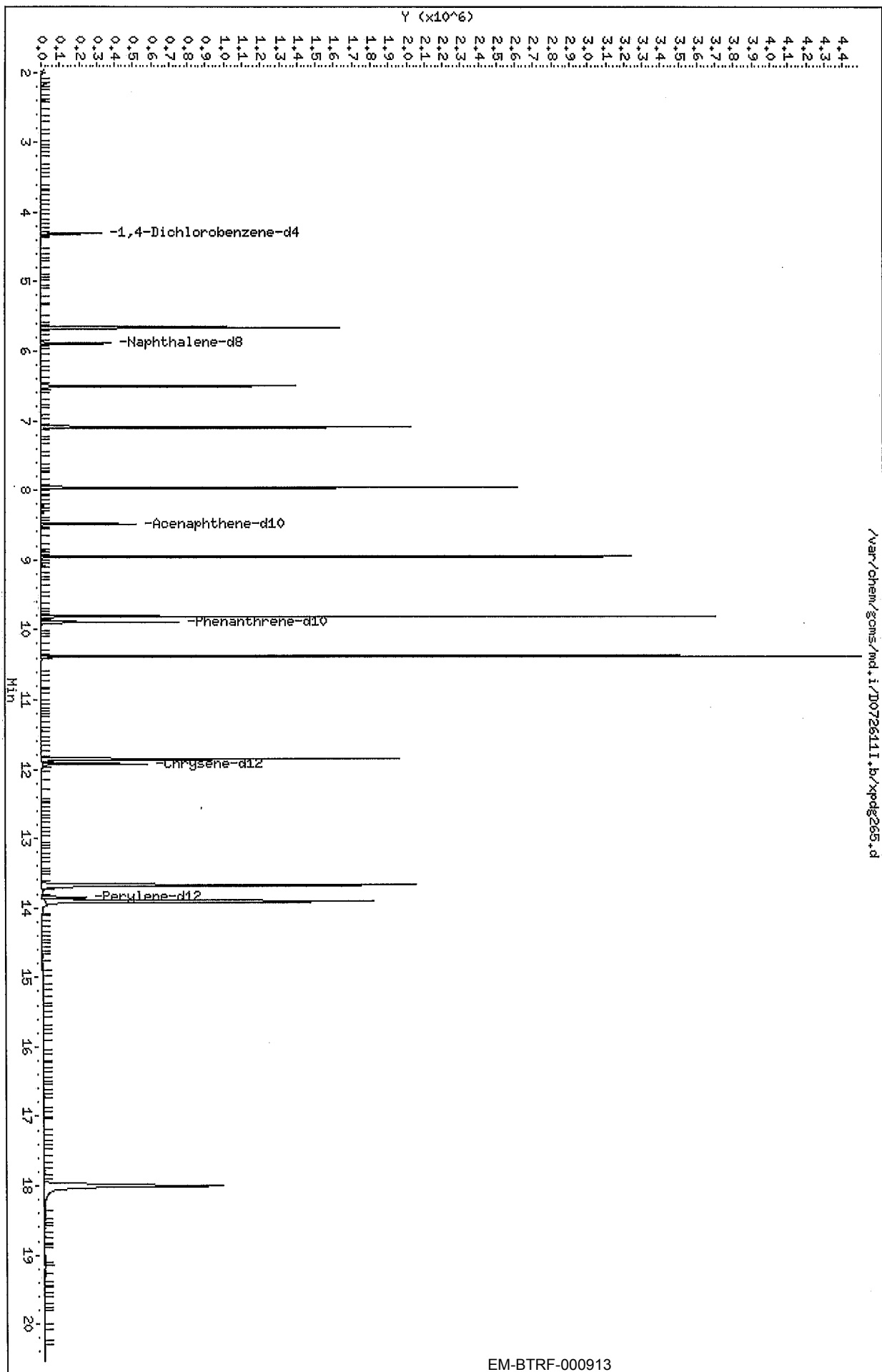
Data File: /var/chem/gcms/md.i/D072611I.b/xpdg265.d

Report Date: 26-Jul-2011 14:33

Compounds	QUANT SIG						AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE		CAL-AMT	ON-COL
							(ng/uL)	(ng/uL)
=====	=====	==	=====	=====	=====		=====	=====
85 Benzo(e)pyrene	252	13.678	13.678	(0.987)	1290598		120.000	147
196 Perylene	252	13.908	13.908	(1.004)	1277425		120.000	131
201 Dibenzo(a,e)pyrene	302	18.009	18.009	(1.300)	995427		120.000	168

Data File: /var/chem/gcms/md.i/D072611.b/xpds265.d
Date: 26-JUL-2011 10:52
Client ID: STD120
Sample Info: XPDG265.1,5,STD120
Volume Injected (uL): 1.0
Column Phase: Rxi-5 Sil MS

Instrument: md.i
Operator: 60841
Column diameter: 0.25



Data File: /var/chem/gcms/md.i/D072611I.b/xpdg268.d

Report Date: 26-Jul-2011 14:33

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Semivolatile Organic Compounds by GC/MS

Data file : /var/chem/gcms/md.i/D072611I.b/xpdg268.d
 Lab Smp Id: XPDG268 Client Smp ID: STD200
 Inj Date : 26-JUL-2011 10:24
 Operator : 60841 Inst ID: md.i
 Smp Info : XPDG268,,1,8,,STD200
 Misc Info : D072611I,8270a9,pahextra.sub
 Comment : Semivolatile Organic Compounds by GC/MS
 Method : /var/chem/gcms/md.i/D072611I.b/8270a9.m
 Meth Date : 26-Jul-2011 14:33 mcgeek Quant Type: ISTD
 Cal Date : 26-JUL-2011 10:24 Cal File: xpdg268.d
 Als bottle: 3 Calibration Sample, Level: 8
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: alleextra.sub
 Target Version: 3.50
 Processing Host: qmidhp01

Concentration Formula: Amt * DF * Vt*Sf/Ws * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	1000.00000	Volume of final extract (uL) (1000 low, 2
Sf	1.00000	Prep Split Factor
Ws	30.00000	Weight of sample extracted (g)

Cpnd Variable

Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
						CAL-AMT (ng/uL)	ON-COL (ng/uL)
* 1 1,4-Dichlorobenzene-d4	152	4.307	4.307	(1.000)	47611	20.0000	20.0
* 2 Naphthalene-d8	136	5.887	5.887	(1.000)	176831	20.0000	20.0
* 3 Acenaphthene-d10	164	8.485	8.485	(1.000)	105135	20.0000	20.0
* 4 Phenanthrene-d10	188	9.895	9.895	(1.000)	203778	20.0000	20.0
* 5 Chrysene-d12	240	11.922	11.922	(1.000)	208580	20.0000	20.0
* 6 Perylene-d12	264	13.861	13.861	(1.000)	192837	20.0000	20.0
199 Phentermine	58	5.664	5.664	(0.962)	1516211	200.000	240(A)
202 1,4-Phenylenediamine	108	6.510	6.510	(1.106)	787955	200.000	251(A)
197 1-methylnaphthalene	142	7.098	7.098	(1.206)	1148719	200.000	215(A)
192 2,6-Dimethylnaphthalene	156	7.967	7.967	(0.939)	1106673	200.000	219(A)
193 2,3,5-Trimethylnaphthalene	170	8.960	8.960	(0.906)	1019397	200.000	222(A)
194 Dibenzothiopene	184	9.818	9.818	(0.992)	1858971	200.000	211(A)
195 1-Methylphenanthrene	192	10.382	10.382	(1.049)	1502921	200.000	221(A)
200 3,3'-Dimethoxybenzidine	244	11.857	11.857	(0.995)	665596	200.000	355(A)

Data File: /var/chem/gcms/md.i/D072611I.b/xpdg268.d

Report Date: 26-Jul-2011 14:33

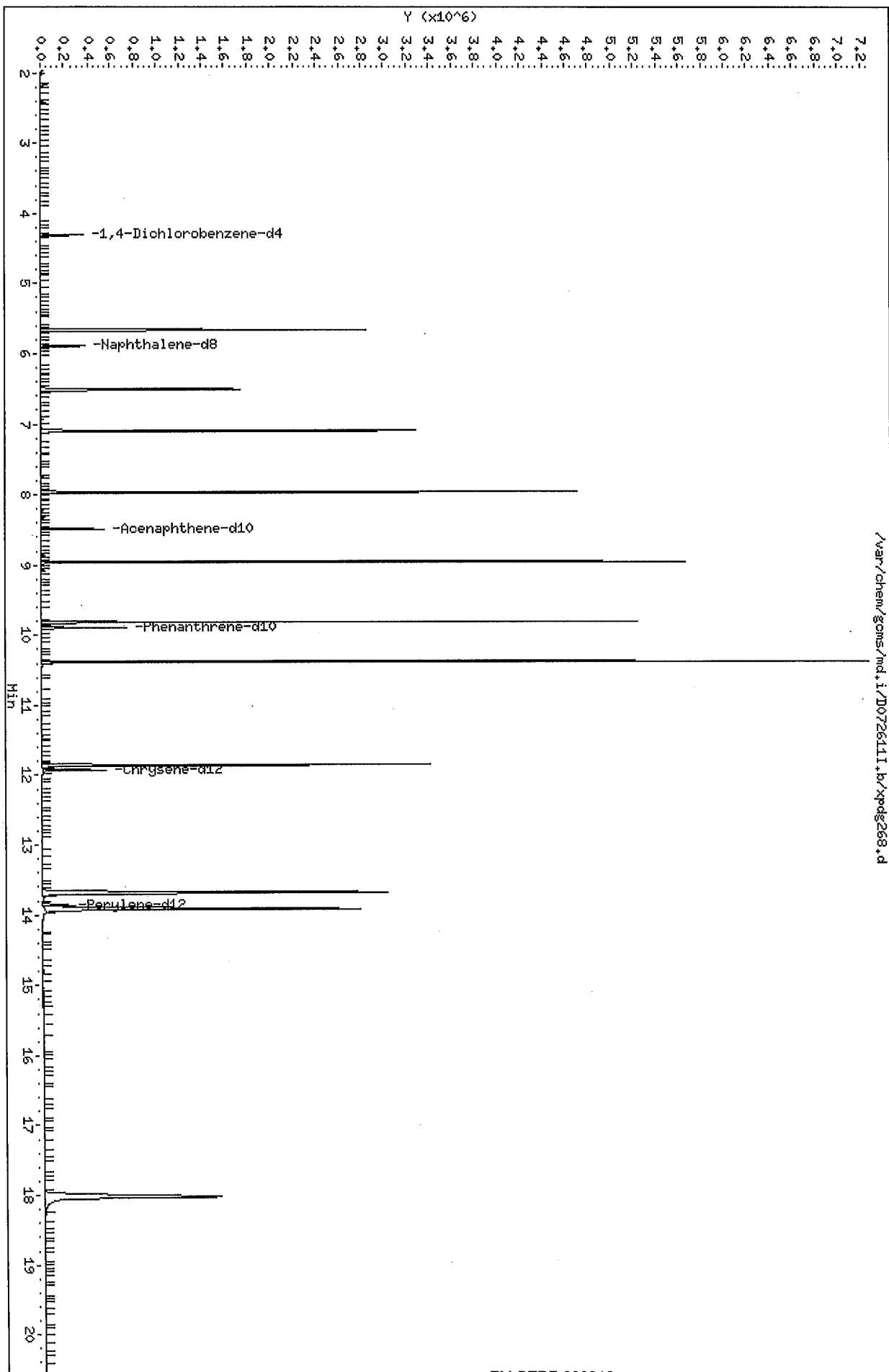
Compounds	QUANT SIG					AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ng/uL)	ON-COL (ng/uL)
=====	=====	==	=====	=====	=====	=====	=====
85 Benzo(e)pyrene	252	13.690	13.690	(0.988)	2160425	200.000	246 (A)
196 Perylene	252	13.919	13.919	(1.004)	2110555	200.000	217 (A)
201 Dibenzo(a,e)pyrene	302	18.026	18.026	(1.301)	1689543	200.000	284 (A)

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

Data File: /var/chem/gcms/md.i/D0726111.b/xpdg268.d
Date: 26-JUL-2011 10:24
Client ID: STD200
Sample Info: XPDG268, 1.8, STD200
Volume Injected (uL): 1.0
Column phase: Rxi-5 Sil MS

Instrument: md.i
Operator: 60841
Column diameter: 0.25



Data File: /var/chem/gcms/md.i/D072611I.b/xpvdg26.d
 Report Date: 26-Jul-2011 14:50

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Semivolatile Organic Compounds by GC/MS

Data file : /var/chem/gcms/md.i/D072611I.b/xpvdg26.d
 Lab Smp Id: XPVDG26 Client Smp ID: 2ND SOURCE
 Inj Date : 26-JUL-2011 14:14
 Operator : 60841 Inst ID: md.i
 Smp Info : XPVDG26,,3,,,2ND SOURCE
 Misc Info : D072611I,8270a9,pahextra.sub
 Comment : Semivolatile Organic Compounds by GC/MS
 Method : /var/chem/gcms/md.i/D072611I.b/8270a9.m
 Meth Date : 26-Jul-2011 14:45 mcgeek Quant Type: ISTD
 Cal Date : 26-JUL-2011 13:45 Cal File: xpdg267.d
 Als bottle: 11 QC Sample: BLANK
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: pahextra.sub
 Target Version: 3.50
 Processing Host: qmidhp01

Concentration Formula: Amt * DF * Vt*Sf/Ws * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	1000.00000	Volume of final extract (uL) (1000 low, 2
Sf	1.00000	Prep Split Factor
Ws	30.00000	Weight of sample extracted (g)

Cpnd Variable

Local Compound Variable

Compounds	QUANT SIG	MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN (ng/uL)	FINAL (ug/Kg)
* 1 1,4-Dichlorobenzene-d4	152	4.301	4.301	(1.000)	46663	20.0000	20.0	
* 2 Naphthalene-d8	136	5.887	5.893	(1.000)	180294	20.0000	20.0	
* 3 Acenaphthene-d10	164	8.484	8.484	(1.000)	106683	20.0000	20.0	
* 4 Phenanthrene-d10	188	9.895	9.895	(1.000)	210642	20.0000	20.0	
* 5 Chrysene-d12	240	11.922	11.922	(1.000)	225651	20.0000	20.0	
* 6 Perylene-d12	264	13.855	13.849	(1.000)	208690	20.0000	20.0	
199 Phentermine	58	5.664	5.682	(0.962)	407919	55.7879	1860	
197 1-methylnaphthalene	142	7.092	7.098	(1.205)	363847	66.7293	2220	
192 2,6-Dimethylnaphthalene	156	7.961	7.962	(0.938)	344779	67.1309	2240	
193 2,3,5-Trimethylnaphthalene	170	8.954	8.955	(0.905)	327242	68.9528	2300	
194 Dibenzothiophene	184	9.812	9.812	(0.992)	602921	66.2458	2210	
195 1-Methylphenanthrene	192	10.382	10.376	(1.049)	488400	69.5671	2320	
200 3,3'-Dimethoxybenzidine	244	11.851	11.845	(0.994)	124498	50.0344	1670	
85 Benzo(e)pyrene	252	13.672	13.661	(0.987)	652160	62.2318	2070	

Data File: /var/chem/gcms/md.i/D072611I.b/xpvdg26.d

Report Date: 26-Jul-2011 14:50

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN	FINAL
	MASS					(ng/uL)	(ug/Kg)
=====	=====	==	=====	=====	=====	=====	=====
196 Perylene	252	13.902	13.896	(1.003)	675484	64.0417	2130
201 Dibenzo(a,e)pyrene	302	17.997	17.962	(1.299)	497332	59.2179	1970

Data File: /var/chem/gcms/md.i/D072611I.b/xpvdg26.d

Report Date: 26-Jul-2011 14:50

TestAmerica Knoxville

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: md.i
 Lab File ID: xpvdg26.d
 Lab Smp Id: XPVDG26
 Analysis Type: SV
 Quant Type: ISTD
 Operator: 60841

Calibration Date: 26-JUL-2011
 Calibration Time: 11:21
 Client Smp ID: 2ND SOURCE
 Level: LOW
 Sample Type: SOIL

Method File: /var/chem/gcms/md.i/D072611I.b/8270a9.m

Misc Info: D072611I,8270a9,pahextra.sub

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
1 1,4-Dichlorobenze	45320	22660	90640	46663	2.96
2 Naphthalene-d8	171005	85502	342010	180294	5.43
3 Acenaphthene-d10	99776	49888	199552	106683	6.92
4 Phenanthrene-d10	194354	97177	388708	210642	8.38
5 Chrysene-d12	203342	101671	406684	225651	10.97
6 Perylene-d12	185554	92777	371108	208690	12.47

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
1 1,4-Dichlorobenze	4.31	3.81	4.81	4.30	-0.14
2 Naphthalene-d8	5.89	5.39	6.39	5.89	0.00
3 Acenaphthene-d10	8.48	7.98	8.98	8.48	0.00
4 Phenanthrene-d10	9.89	9.39	10.39	9.89	0.00
5 Chrysene-d12	11.92	11.42	12.42	11.92	0.00
6 Perylene-d12	13.85	13.35	14.35	13.85	0.00

AREA UPPER LIMIT = +100% of internal standard area.

AREA LOWER LIMIT = - 50% of internal standard area.

RT UPPER LIMIT = + 0.50 minutes of internal standard RT.

RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /var/chem/gcms/md.i/D072611I.b/xpvdg26.d
 Report Date: 26-Jul-2011 14:50

TestAmerica Knoxville

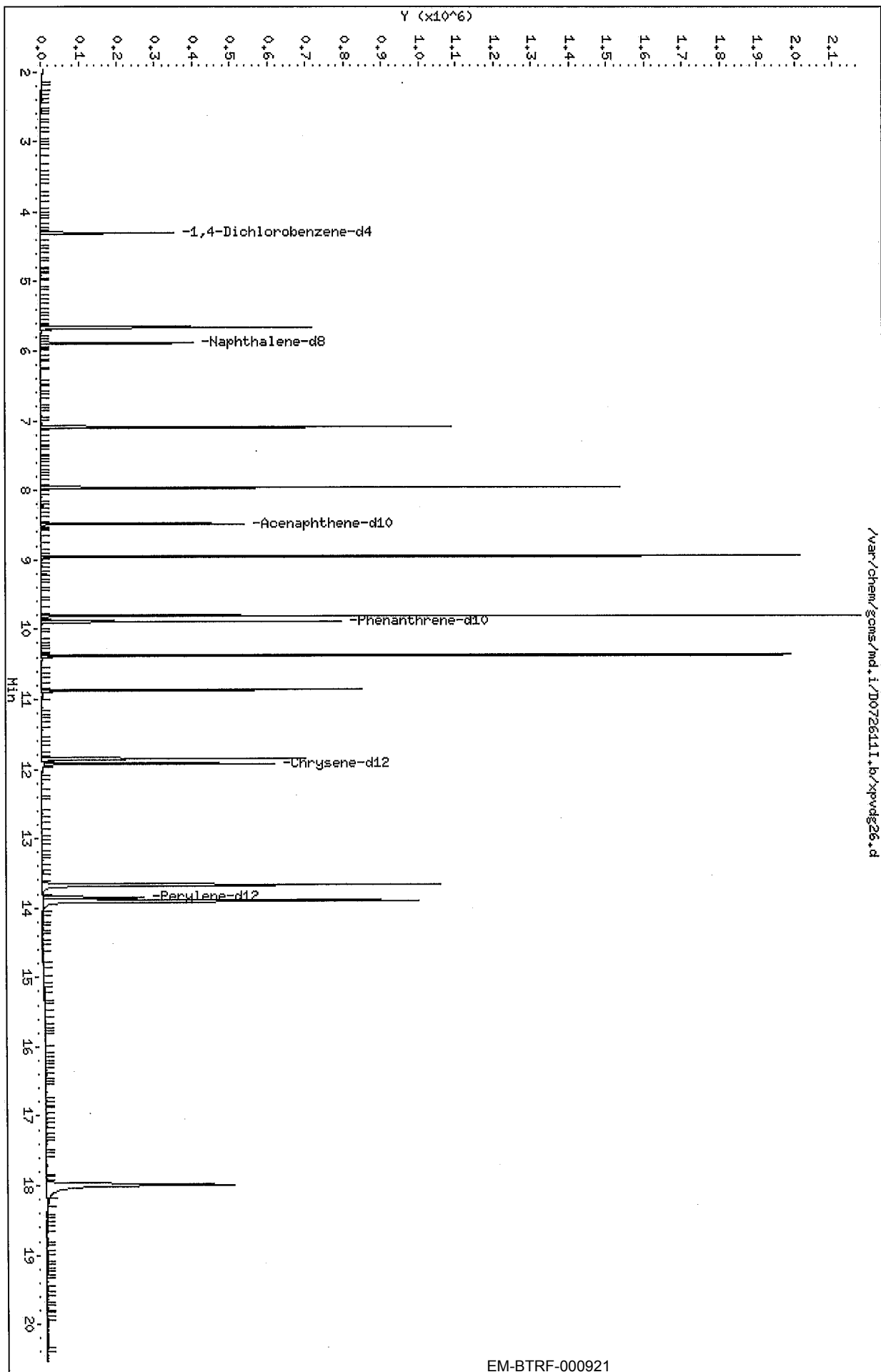
RECOVERY REPORT

Client Name:	Client SDG: D072611I
Sample Matrix: SOLID	Fraction: SV
Lab Smp Id: XPVDG26	Client Smp ID: 2ND SOURCE
Level: LOW	Operator: 60841
Data Type: MS DATA	SampleType: BLANK
SpikeList File: pahextra.spk	Quant Type: ISTD
Sublist File: pahextra.sub	
Method File: /var/chem/gcms/md.i/D072611I.b/8270a9.m	
Misc Info: D072611I,8270a9,pahextra.sub	

SPIKE COMPOUND	CONC ADDED ug/Kg	CONC RECOVERED ug/Kg	% RECOVERED	LIMITS
197 1-methylnaphthalen	2000	2220	111.22	70-130
192 2,6-Dimethylnaphth	2000	2240	111.88	70-130
193 2,3,5-Trimethylnap	2000	2300	114.92	70-130
194 Dibenzothiopene	2000	2210	110.41	70-130
195 1-Methylphenanthre	2000	2320	115.95	70-130
85 Benzo(e)pyrene	2000	2070	103.72	70-130
196 Perylene	2000	2130	106.74	70-130
199 Phentermine	2000	1860	92.98	70-130
202 1,4-Phenylenediam	2000 <i>7000</i>	0.00	*	70-130
200 3,3'-Dimethoxybenz	2000	1670	83.39	70-130
201 Dibenzo(a,e)pyrene	2000	1970	98.70	70-130

Data File: /var/chem/gcms/md.i/D072611.i.b/xpvdg26.d
Date : 26-JUL-2011 14:14
Client ID: 2ND SOURCE
Sample Info: XPVDG26,3,,,2ND SOURCE
Volume Injected (uL): 1.0
Column phase: Rxi-5 Sil MS

Instrument: md.i
Operator: 60841
Column diameter: 0.25



Data File: /var/chem/gcms/md.i/D072611I.b/a9vdg26.d

Report Date: 27-Jul-2011 08:49

TestAmerica Knoxville

Semivolatile Organic Compounds by GC/MS

Data file : /var/chem/gcms/md.i/D072611I.b/a9vdg26.d
 Lab Smp Id: A9VDG26 Client Smp ID: 2ND SOURCE
 Inj Date : 26-JUL-2011 18:07
 Operator : 60841 Inst ID: md.i
 Smp Info : A9VDG26,,3,,,2ND SOURCE
 Misc Info : D072611I,8270a9,appdx9.sub
 Comment : Semivolatile Organic Compounds by GC/MS
 Method : /var/chem/gcms/md.i/D072611I.b/8270a9.m
 Meth Date : 27-Jul-2011 08:43 mcgeek Quant Type: ISTD
 Cal Date : 26-JUL-2011 17:42 Cal File: a9dg267.d
 Als bottle: 20 QC Sample: BLANK
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: pahextra.sub
 Target Version: 3.50
 Processing Host: qmidhp01

Concentration Formula: Amt * DF * Vt*Sf/Ws * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	1000.00000	Volume of final extract (uL) (1000 low, 2
Sf	1.00000	Prep Split Factor
Ws	30.00000	Weight of sample extracted (g)

Cpnd Variable

Local Compound Variable

Compounds	QUANT SIG	MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN (ng/uL)	FINAL (ug/Kg)
* 1 1,4-Dichlorobenzene-d4	152	4.301	4.301	(1.000)	56568	20.0000	20.0	
* 2 Naphthalene-d8	136	5.887	5.888	(1.000)	221010	20.0000	20.0	
* 3 Acenaphthene-d10	164	8.484	8.485	(1.000)	126694	20.0000	20.0	
* 4 Phenanthrene-d10	188	9.895	9.895	(1.000)	251289	20.0000	20.0	
* 5 Chrysene-d12	240	11.928	11.922	(1.000)	260162	20.0000	20.0	
* 6 Perylene-d12	264	13.855	13.855	(1.000)	228234	20.0000	20.0	
202 1,4-Phenylenediamine	108	6.504	6.504	(1.105)	245175	54.5117	1820	

Data File: /var/chem/gcms/md.i/D072611I.b/a9vdg26.d
 Report Date: 27-Jul-2011 08:49

TestAmerica Knoxville

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: md.i	Calibration Date: 26-JUL-2011
Lab File ID: a9vdg26.d	Calibration Time: 15:34
Lab Smp Id: A9VDG26	Client Smp ID: 2ND SOURCE
Analysis Type: SV	Level: LOW
Quant Type: ISTD	Sample Type: SOIL
Operator: 60841	
Method File: /var/chem/gcms/md.i/D072611I.b/8270a9.m	
Misc Info: D072611I,8270a9,appdx9.sub	

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
1 1,4-Dichlorobenze	44644	22322	89288	56568	26.71
2 Naphthalene-d8	172857	86428	345714	221010	27.86
3 Acenaphthene-d10	101300	50650	202600	126694	25.07
4 Phenanthrene-d10	197263	98632	394526	251289	27.39
5 Chrysene-d12	205125	102562	410250	260162	26.83
6 Perylene-d12	176143	88072	352286	228234	29.57

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
1 1,4-Dichlorobenze	4.30	3.80	4.80	4.30	0.00
2 Naphthalene-d8	5.89	5.39	6.39	5.89	0.00
3 Acenaphthene-d10	8.48	7.98	8.98	8.48	0.00
4 Phenanthrene-d10	9.89	9.39	10.39	9.89	0.00
5 Chrysene-d12	11.92	11.42	12.42	11.93	0.05
6 Perylene-d12	13.85	13.35	14.35	13.85	0.04

AREA UPPER LIMIT = +100% of internal standard area.
 AREA LOWER LIMIT = - 50% of internal standard area.
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /var/chem/gcms/md.i/D072611I.b/a9vdg26.d

Report Date: 27-Jul-2011 08:49

TestAmerica Knoxville

RECOVERY REPORT

Client Name:

Sample Matrix: SOLID

Lab Smp Id: A9VDG26

Level: LOW

Data Type: MS DATA

SpikeList File: pahextra.spk

Sublist File: pahextra.sub

Method File: /var/chem/gcms/md.i/D072611I.b/8270a9.m

Misc Info: D072611I,8270a9,appdx9.sub

Client SDG: D072611I

Fraction: SV

Client Smp ID: 2ND SOURCE

Operator: 60841

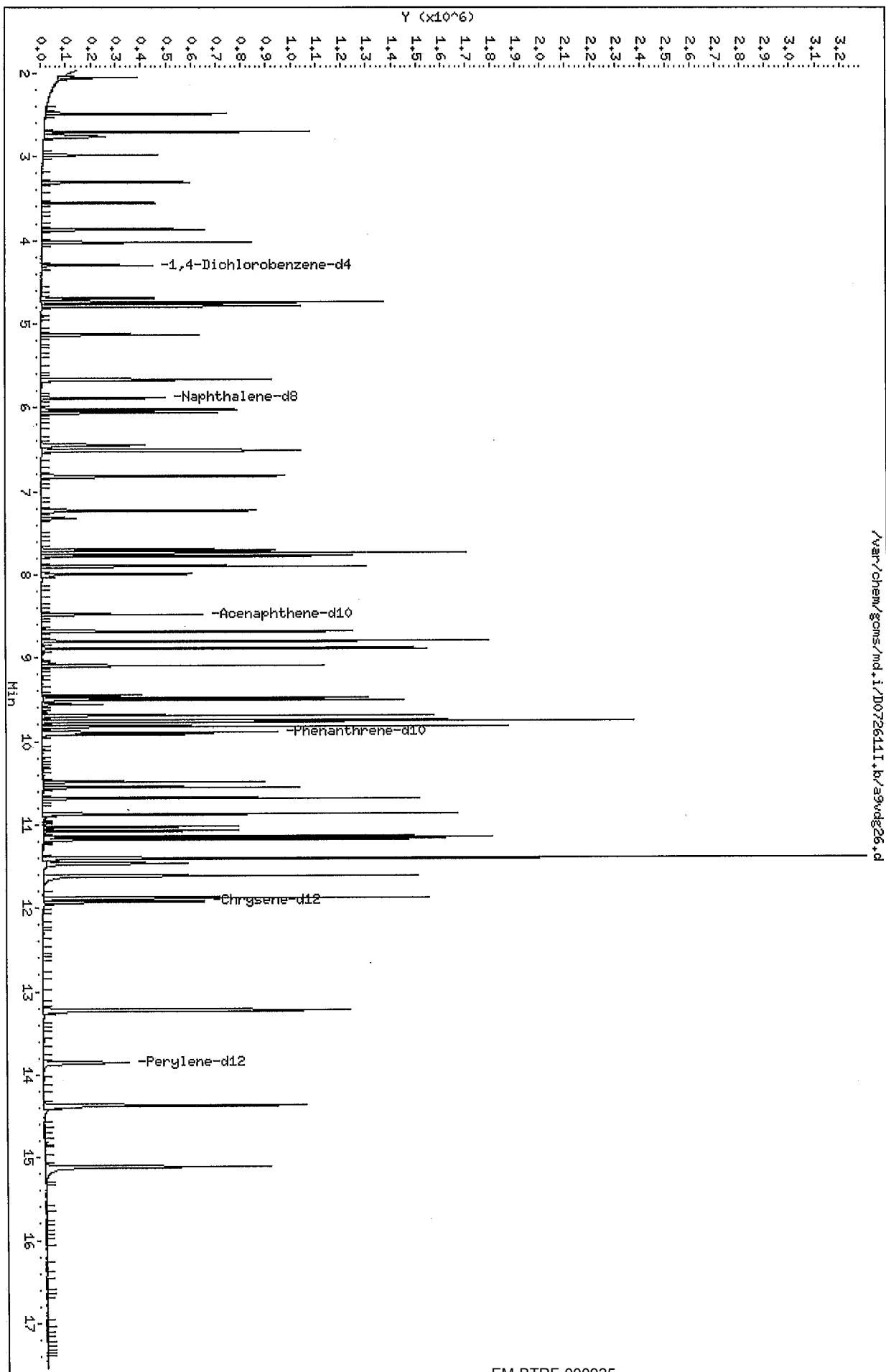
SampleType: BLANK

Quant Type: ISTD

SPIKE COMPOUND	CONC ADDED ug/Kg	CONC RECOVERED ug/Kg	% RECOVERED	LIMITS
197 1-methylnaphthale	2000	0.00	*	70-130
192 2,6-Dimethylnapht	2000	0.00	*	70-130
193 2,3,5-Trimethylna	2000	0.00	*	70-130
194 Dibenzothiopene	2000	0.00	*	70-130
195 1-Methylphenanthr	2000	0.00	*	70-130
85 Benzo(e)pyrene	2000	0.00	*	70-130
196 Perylene	2000	0.00	*	70-130
199 Phentermine	2000	0.00	*	70-130
202 1,4-Phenylenediami	2000	1820	90.85	70-130
200 3,3'-Dimethoxyben	2000	0.00	*	70-130
201 Dibenzo(a,e)pyrene	2000	0.00	*	70-130

Data File: /var/chem/gcms/md.i/D072611.b/a3vds26.d
Date: 26-JUL-2014 18:07
Client ID: 2ND SOURCE
Sample Info: A3VDS26,,3,,,2ND SOURCE
Volume Injected (uL): 1.0
Column phase: Rxi-5 Sil MS

Instrument: md.i
Operator: 60841
Column diameter: 0.25



Data File: /chem/gcms/md.i/D072611I.b/a9dg267.d

Report Date: 26-Jul-2011 18:00

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Semivolatile Organic Compounds by GC/MS

Data file : /chem/gcms/md.i/D072611I.b/a9dg267.d
 Lab Smp Id: A9DG267 Client Smp ID: STD002
 Inj Date : 26-JUL-2011 17:42
 Operator : 60841 Inst ID: md.i
 Smp Info : A9DG267,,1,7,,STD002
 Misc Info : D072611I,8270a9,appdx9.sub
 Comment : Semivolatile Organic Compounds by GC/MS
 Method : /var/chem/gcms/md.i/D072611I.b/8270a9.m
 Meth Date : 26-Jul-2011 18:00 chemist Quant Type: ISTD
 Cal Date : 26-JUL-2011 17:42 Cal File: a9dg267.d
 Als bottle: 1 Calibration Sample, Level: 7
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: appdx9.sub
 Target Version: 3.50
 Processing Host: qmidhp01

Concentration Formula: Amt * DF * Vt*Sf/Ws * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	1000.00000	Volume of final extract (uL) (1000 low, 2
Sf	1.00000	Prep Split Factor
Ws	30.00000	Weight of sample extracted (g)

Cpnd Variable

Local Compound Variable

Compounds	QUANT SIG	MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
							CAL-AMT (ng/uL)	ON-COL (ng/uL)
* 1 1,4-Dichlorobenzene-d4	152	4.301	4.301	(1.000)	43350	20.0000	20.0	
* 2 Naphthalene-d8	136	5.888	5.888	(1.000)	168416	20.0000	20.0	
* 3 Acenaphthene-d10	164	8.485	8.485	(1.000)	94140	20.0000	20.0	
* 4 Phenanthrene-d10	188	9.895	9.895	(1.000)	192408	20.0000	20.0	
* 5 Chrysene-d12	240	11.922	11.922	(1.000)	184616	20.0000	20.0	
* 6 Perylene-d12	264	13.855	13.855	(1.000)	150444	20.0000	20.0	
176 2-Picoline	93	2.715	2.715	(0.631)	4256	2.00000	1.69	
86 N-nitrosomethylethylamine	42	2.768	2.768	(0.643)	3456	2.00000	1.85	
87 Methyl methanosulfonate	80	2.979	2.979	(0.693)	2960	2.00000	1.91	
88 N-nitrosodiethylamine	102	3.308	3.308	(0.769)	1790	2.00000	1.50	
89 Ethyl methanosulfonate	79	3.555	3.555	(0.826)	3232	2.00000	1.74	
90 Pentachloroethane	167	4.031	4.031	(0.937)	1874	2.00000	1.68	
91 acetophenone	105	4.742	4.742	(1.102)	6146	2.00000	1.66	
92 m-cresol	108	4.754	4.754	(1.105)	2858	2.00000	1.16	

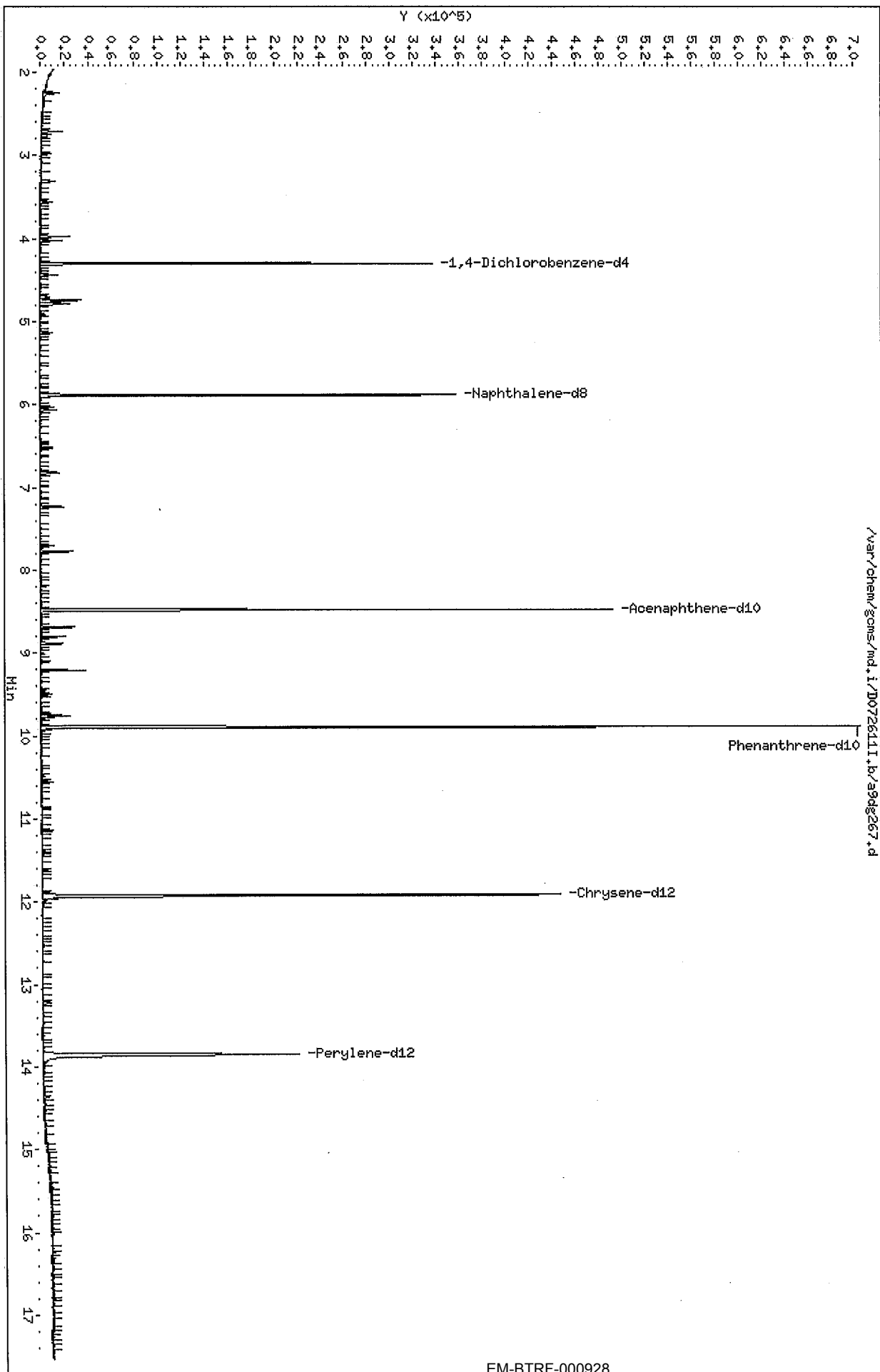
Data File: /chem/gcms/md.i/D072611I.b/a9dg267.d

Report Date: 26-Jul-2011 18:00

Compounds	QUANT SIG					AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ng/uL)	ON-COL (ng/uL)
=====	=====	==	=====	=====	=====	=====	=====
93 n-nitrosopyrrolidine	100	4.707	4.707	(1.094)	1556	2.00000	1.19
94 n-nitrosomorpholine	56	4.748	4.748	(1.104)	3597	2.00000	1.74
95 o-toluidine	106	4.783	4.783	(1.112)	6959	2.00000	1.74
96 n-nitrosopiperidine	42	5.141	5.141	(0.873)	3332	2.00000	1.41
97 2,6-dichlorophenol	162	6.023	6.023	(1.023)	2377	2.00000	1.06
98 hexachloropropene	213	6.064	6.064	(1.030)	2692	2.00000	1.52
99 N-nitro-di-n-butylamine	84	6.522	6.522	(1.108)	1936	2.00000	1.25
100 Isosafrole	162	6.822	6.822	(1.159)	2845	2.00000	1.38
101 1,2,4,5-tetrachlorobenzene	216	7.233	7.233	(1.229)	5134	2.00000	1.84
102 safrole	162	7.697	7.697	(0.907)	2456	2.00000	1.30
103 1-chloronaphthalene	162	7.774	7.774	(0.916)	9184	2.00000	1.85
104 m-dinitrobenzene	168	8.203	8.203	(0.967)	390	2.00000	0.570
105 pentachlorobenzene	250	8.690	8.690	(1.024)	4641	2.00000	2.00
106 1-naphthylamine	143	8.802	8.802	(1.037)	6386	2.00000	1.24
107 2-naphthylamine	143	8.890	8.890	(1.048)	7113	2.00000	1.32
109 5-nitro-o-toluidine	152	9.096	9.096	(1.072)	883	2.00000	0.564
110 diphenylamine	169	9.207	9.207	(0.931)	7808	2.00000	1.38
111 1,3,5-trinitrobenzene	75	9.448	9.448	(0.955)	1085	2.00000	0.509
112 phenacetin	108	9.501	9.501	(0.960)	1706	2.00000	0.602
113 4-aminobiphenyl	169	9.754	9.754	(0.986)	7283	2.00000	1.05
177 Methapyrilene HCL	97	10.553	10.553	(1.066)	1890	2.00000	1.06
84 Benzidine	184	10.870	10.870	(1.099)	3189	2.00000	0.473
116 p-(dimethylamino)azobenzene	120	11.146	11.146	(1.126)	1996	2.00000	0.682
117 o-toluidine	212	11.399	11.399	(1.152)	2864	2.00000	0.440
119 7,12-dimethylbenz(a)anthracen	256	13.220	13.220	(1.109)	2606	2.00000	0.621
118 2-acetylaminofluorene	181	11.604	11.604	(0.973)	1368	2.00000	0.375
120 3-methylcholanthrene	268	14.360	14.360	(1.036)	2029	2.00000	0.514

Data File: /var/chem/gcms/md.i/D072611.b/a9d267.d
Date: 26-JUL-2011 17:42
Client ID: STD002
Sample Info: A9D267,1,7,STD002
Volume Injected (uL): 1.0
Column phase: Rxi-5 Sil MS

Instrument: md.i
Operator: 60841
Column diameter: 0.25



Data File: /chem/gcms/md.i/D072611I.b/a9dg266.d
 Report Date: 26-Jul-2011 17:35

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Semivolatile Organic Compounds by GC/MS

Data file : /chem/gcms/md.i/D072611I.b/a9dg266.d
 Lab Smp Id: A9DG266 Client Smp ID: STD005
 Inj Date : 26-JUL-2011 17:17
 Operator : 60841 Inst ID: md.i
 Smp Info : A9DG266,,1,6,,STD005
 Misc Info : D072611I,8270a9,appdx9.sub
 Comment : Semivolatile Organic Compounds by GC/MS
 Method : /var/chem/gcms/md.i/D072611I.b/8270a9.m
 Meth Date : 26-Jul-2011 17:35 chemist Quant Type: ISTD
 Cal Date : 26-JUL-2011 17:17 Cal File: a9dg266.d
 Als bottle: 1 Calibration Sample, Level: 6
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: appdx9.sub
 Target Version: 3.50
 Processing Host: qmidhp01

Concentration Formula: Amt * DF * Vt*Sf/Ws * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	1000.00000	Volume of final extract (uL) (1000 low, 2
Sf	1.00000	Prep Split Factor
Ws	30.00000	Weight of sample extracted (g)

Cpnd Variable

Local Compound Variable

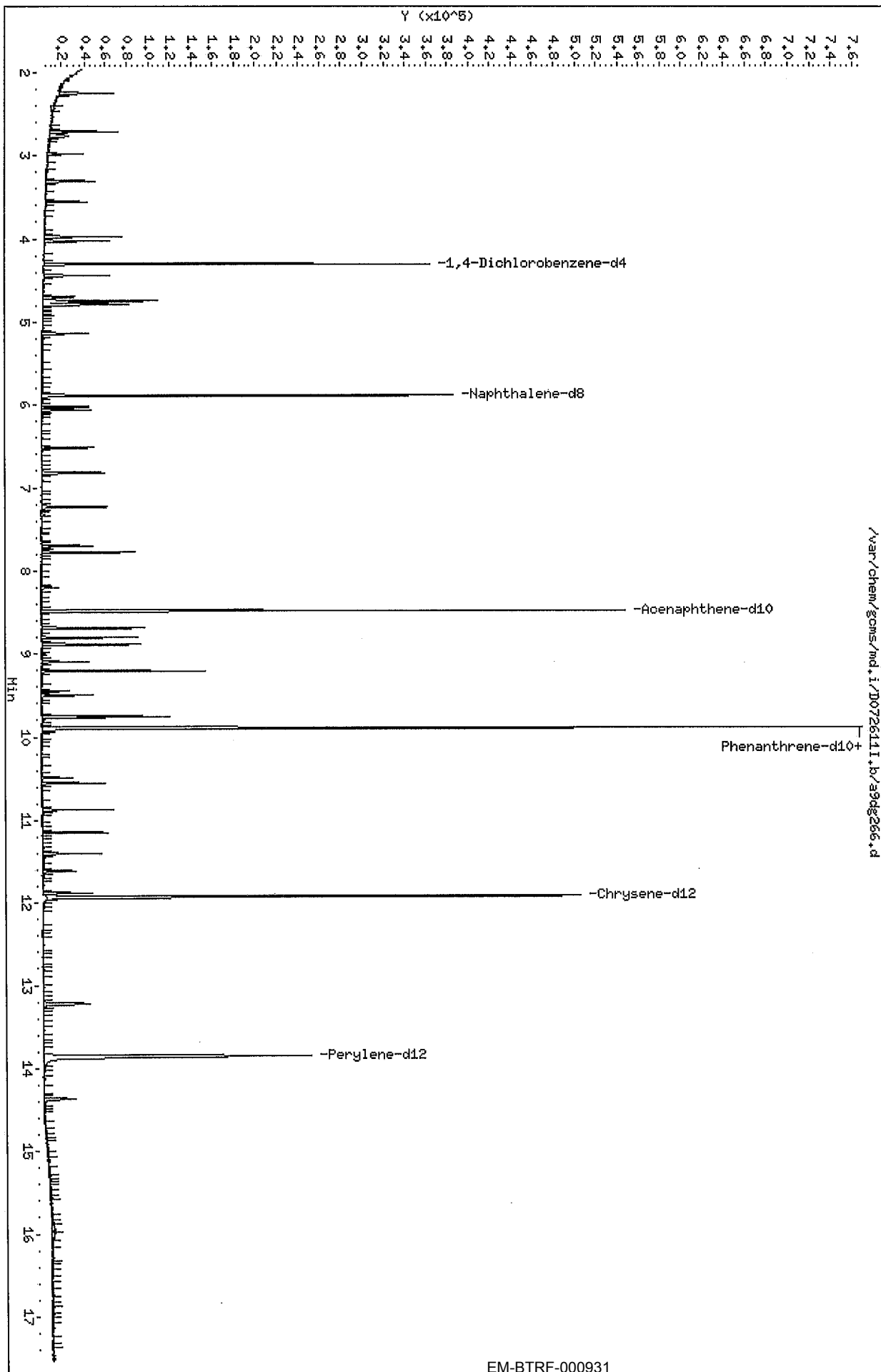
Compounds	QUANT SIG	MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
							CAL-AMT (ng/uL)	ON-COL (ng/uL)
* 1 1,4-Dichlorobenzene-d4	152	4.301	4.301	(1.000)	45556	20.0000	20.0	
* 2 Naphthalene-d8	136	5.888	5.888	(1.000)	176636	20.0000	20.0	
* 3 Acenaphthene-d10	164	8.485	8.485	(1.000)	102980	20.0000	20.0	
* 4 Phenanthrene-d10	188	9.895	9.895	(1.000)	203533	20.0000	20.0	
* 5 Chrysene-d12	240	11.928	11.928	(1.000)	207612	20.0000	20.0	
* 6 Perylene-d12	264	13.855	13.855	(1.000)	168967	20.0000	20.0	
176 2-Picoline	93	2.709	2.709	(0.630)	14161	5.00000	5.35	
86 N-nitrosomethylethylamine	42	2.768	2.768	(0.643)	9972	5.00000	5.07	
87 Methyl methanosulfonate	80	2.979	2.979	(0.693)	8215	5.00000	5.04	
88 N-nitrosodiethylamine	102	3.308	3.308	(0.769)	6039	5.00000	4.81	
89 Ethyl methanosulfonate	79	3.555	3.555	(0.826)	10073	5.00000	5.17	
90 Pentachloroethane	167	4.025	4.025	(0.936)	6031	5.00000	5.15	
91 acetophenone	105	4.742	4.742	(1.102)	19686	5.00000	5.07	
92 m-cresol	108	4.754	4.754	(1.105)	11162	5.00000	4.32	

Data File: /chem/gcms/md.i/D072611I.b/a9dg266.d
 Report Date: 26-Jul-2011 17:35

Compounds	QUANT SIG					AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ng/uL)	ON-COL (ng/uL)
=====	=====	==	=====	=====	=====	=====	=====
93 n-nitrosopyrrolidine	100	4.701	4.701	(1.093)	5836	5.00000	4.26
94 n-nitrosomorpholine	56	4.742	4.742	(1.102)	10785	5.00000	4.96
95 o-toluidine	106	4.783	4.783	(1.112)	21361	5.00000	5.10
96 n-nitrosopiperidine	42	5.135	5.135	(0.872)	11600	5.00000	4.69
97 2,6-dichlorophenol	162	6.023	6.023	(1.023)	9734	5.00000	4.15
98 hexachloropropene	213	6.064	6.064	(1.030)	7843	5.00000	4.23
99 N-nitro-di-n-butylamine	84	6.516	6.516	(1.107)	6652	5.00000	4.08
100 Isosafrole	162	6.822	6.822	(1.159)	9617	5.00000	4.44
101 1,2,4,5-tetrachlorobenzene	216	7.227	7.227	(1.228)	15109	5.00000	5.17
102 safrole	162	7.697	7.697	(0.907)	8132	5.00000	3.93
103 1-chloronaphthalene	162	7.774	7.774	(0.916)	28235	5.00000	5.19
104 m-dinitrobenzene	168	8.203	8.203	(0.967)	1693	5.00000	2.26
105 pentachlorobenzene	250	8.684	8.684	(1.024)	12795	5.00000	5.04
106 1-naphthylamine	143	8.802	8.802	(1.037)	24281	5.00000	4.31
107 2-naphthylamine	143	8.884	8.884	(1.047)	26861	5.00000	4.57
108 2,3,4,6-tetrachlorophenol	232	8.872	8.872	(1.046)	3259	5.00000	2.47
109 5-nitro-o-toluidine	152	9.096	9.096	(1.072)	4923	5.00000	2.87
110 diphenylamine	169	9.207	9.207	(0.931)	28143	5.00000	4.71
111 1,3,5-trinitrobenzene	75	9.448	9.448	(0.955)	4518	5.00000	2.00
112 phenacetin	108	9.501	9.501	(0.960)	8105	5.00000	2.71
113 4-aminobiphenyl	169	9.754	9.754	(0.986)	30768	5.00000	4.19
114 pentachloronitrobenzene	237	9.765	9.765	(0.987)	3280	5.00000	3.89
115 Dinoseb	211	9.912	9.912	(1.002)	1566	5.00000	1.48
178 N-Nitroquinoline-n-oxide	174	10.488	10.488	(1.060)	1288	5.00000	5.00
177 Methapyrilene HCL	97	10.547	10.547	(1.066)	9470	5.00000	5.00
84 Benzidine	184	10.870	10.870	(1.099)	19466	5.00000	2.73
116 p-(dimethylamino)azobenzene	120	11.146	11.146	(1.126)	8739	5.00000	2.82
117 o-tolidine	212	11.399	11.399	(1.152)	17435	5.00000	2.53
119 7,12-dimethylbenz(a)anthracen	256	13.220	13.220	(1.108)	14317	5.00000	3.03
118 2-acetylaminofluorene	181	11.610	11.610	(0.973)	7585	5.00000	1.85
120 3-methylcholanthrene	268	14.366	14.366	(1.037)	11225	5.00000	2.53

Data File: /var/chem/gcms/md.i/D072611.b/a9d8266.d
Date: 26-JUL-2011 17:17
Client ID: STD005
Sample Info: #9D8266, 1,6, STD005
Volume Injected (uL): 1.0
Column phase: Rxi-5 Sil MS

Instrument: md.i
Operator: 60841
Column diameter: 0.25



Data File: /chem/gcms/md.i/D072611I.b/a9dg261.d

Report Date: 26-Jul-2011 17:09

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Semivolatile Organic Compounds by GC/MS

Data file : /chem/gcms/md.i/D072611I.b/a9dg261.d
 Lab Smp Id: A9DG261 Client Smp ID: STD010
 Inj Date : 26-JUL-2011 16:51
 Operator : 60841 Inst ID: md.i
 Smp Info : A9DG261,,1,1,,STD010
 Misc Info : D072611I,8270a9,appdx9.sub
 Comment : Semivolatile Organic Compounds by GC/MS
 Method : /var/chem/gcms/md.i/D072611I.b/8270a9.m
 Meth Date : 26-Jul-2011 17:09 chemist Quant Type: ISTD
 Cal Date : 26-JUL-2011 16:51 Cal File: a9dg261.d
 Als bottle: 1 Calibration Sample, Level: 1
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: appdx9.sub
 Target Version: 3.50
 Processing Host: qmidhp01

Concentration Formula: Amt * DF * Vt*Sf/Ws * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	1000.00000	Volume of final extract (uL) (1000 low, 2
Sf	1.00000	Prep Split Factor
Ws	30.00000	Weight of sample extracted (g)

Cpnd Variable

Local Compound Variable

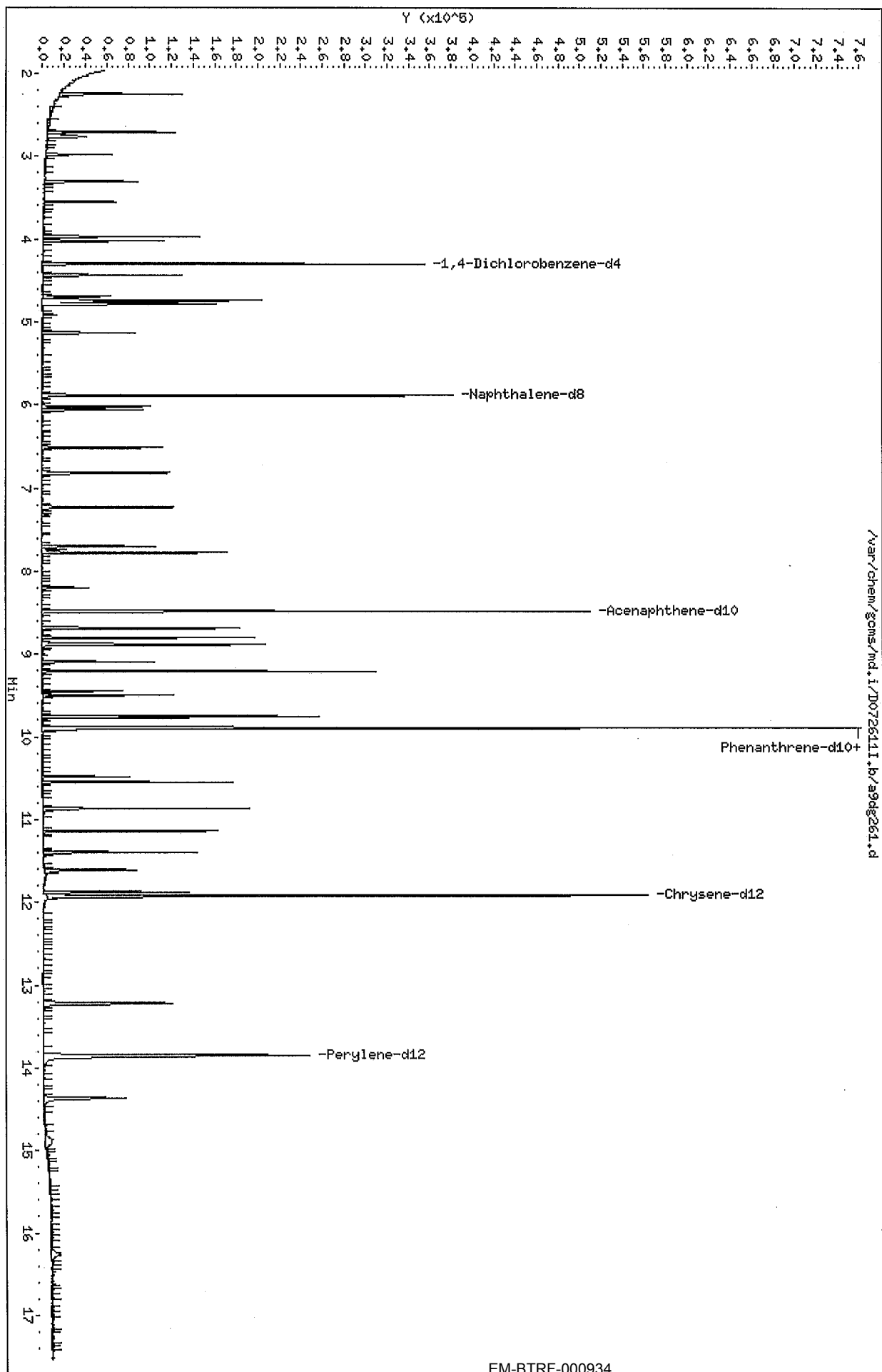
Compounds	QUANT SIG	MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
							CAL-AMT (ng/uL)	ON-COL (ng/uL)
* 1 1,4-Dichlorobenzene-d4	152	4.301	4.301	(1.000)	45526	20.0000	20.0	
* 2 Naphthalene-d8	136	5.888	5.888	(1.000)	175908	20.0000	20.0	
* 3 Acenaphthene-d10	164	8.485	8.485	(1.000)	101704	20.0000	20.0	
* 4 Phenanthrene-d10	188	9.895	9.895	(1.000)	202389	20.0000	20.0	
* 5 Chrysene-d12	240	11.922	11.922	(1.000)	210332	20.0000	20.0	
* 6 Perylene-d12	264	13.855	13.855	(1.000)	170274	20.0000	20.0	
176 2-Picoline	93	2.709	2.709	(0.630)	25467	10.0000	9.74	
86 N-nitrosomethylethylamine	42	2.768	2.768	(0.643)	19309	10.0000	9.85	
87 Methyl methanosulfonate	80	2.979	2.979	(0.693)	15887	10.0000	9.76	
88 N-nitrosodiethylamine	102	3.308	3.308	(0.769)	12026	10.0000	9.52	
89 Ethyl methanosulfonate	79	3.555	3.555	(0.826)	18947	10.0000	9.78	
90 Pentachloroethane	167	4.031	4.031	(0.937)	11149	10.0000	9.57	
91 acetophenone	105	4.742	4.742	(1.102)	37334	10.0000	9.65	
92 m-cresol	108	4.754	4.754	(1.105)	24469	10.0000	9.28	

Data File: /chem/gcms/md.i/D072611I.b/a9dg261.d
 Report Date: 26-Jul-2011 17:09

Compounds	QUANT SIG			AMOUNTS			
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ng/uL)	ON-COL (ng/uL)
=====	=====	==	=====	=====	=====	=====	=====
93 n-nitrosopyrrolidine	100	4.695	4.695	(1.092)	12665	10.0000	9.03
94 n-nitrosomorpholine	56	4.742	4.742	(1.102)	22047	10.0000	10.1
95 o-toluidine	106	4.783	4.783	(1.112)	42195	10.0000	10.1
96 n-nitrosopiperidine	42	5.135	5.135	(0.872)	23506	10.0000	9.45
97 2,6-dichlorophenol	162	6.017	6.017	(1.022)	20449	10.0000	8.51
98 hexachloropropene	213	6.064	6.064	(1.030)	16166	10.0000	8.76
99 N-nitro-di-n-butylamine	84	6.516	6.516	(1.107)	15292	10.0000	9.14
100 Isosafrole	162	6.822	6.822	(1.159)	20305	10.0000	9.24
101 1,2,4,5-tetrachlorobenzene	216	7.233	7.233	(1.229)	29057	10.0000	10.0
102 safrole	162	7.697	7.697	(0.907)	19667	10.0000	9.28
103 1-chloronaphthalene	162	7.774	7.774	(0.916)	53736	10.0000	10.1
104 m-dinitrobenzene	168	8.203	8.203	(0.967)	4574	10.0000	6.19
105 pentachlorobenzene	250	8.684	8.684	(1.024)	25113	10.0000	10.0
106 1-naphthylamine	143	8.802	8.802	(1.037)	52465	10.0000	9.22
107 2-naphthylamine	143	8.884	8.884	(1.047)	59616	10.0000	10.1
108 2,3,4,6-tetrachlorophenol	232	8.872	8.872	(1.046)	8301	10.0000	6.36
109 5-nitro-o-toluidine	152	9.096	9.096	(1.072)	12327	10.0000	7.28
110 diphenylamine	169	9.207	9.207	(0.931)	55661	10.0000	9.28
111 1,3,5-trinitrobenzene	75	9.448	9.448	(0.955)	11560	10.0000	5.15
112 phenacetin	108	9.501	9.501	(0.960)	21494	10.0000	7.22
113 4-aminobiphenyl	169	9.754	9.754	(0.986)	67795	10.0000	9.04
114 pentachloronitrobenzene	237	9.765	9.765	(0.987)	7529	10.0000	8.98
115 Dinoseb	211	9.912	9.912	(1.002)	4899	10.0000	4.67
84 Benzidine	184	10.870	10.870	(1.099)	52657	10.0000	7.43
116 p-(dimethylamino)azobenzene	120	11.140	11.140	(1.126)	23265	10.0000	7.56
117 o-tolidine	212	11.399	11.399	(1.152)	45578	10.0000	6.66
119 7,12-dimethylbenz(a)anthracen	256	13.220	13.220	(1.109)	35187	10.0000	7.36
118 2-acetylaminofluorene	181	11.610	11.610	(0.974)	21105	10.0000	5.07
120 3-methylcholanthrene	268	14.366	14.366	(1.037)	30831	10.0000	6.90

Data File: /var/chem/gcms/md.i/D072611.b/a9d8261.d
Date: 26-JUL-2011 16:51
Client ID: STD010
Sample Info: A9D8261,1,1,STD010
Volume Injected (uL): 1.0
Column phase: Rxi-5 Sil MS

Instrument: md.i
Operator: 60841
Column diameter: 0.25



Data File: /chem/gcms/md.i/D072611I.b/a9dg262.d
 Report Date: 26-Jul-2011 16:44

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Semivolatile Organic Compounds by GC/MS

Data file : /chem/gcms/md.i/D072611I.b/a9dg262.d
 Lab Smp Id: A9DG262 Client Smp ID: STD025
 Inj Date : 26-JUL-2011 16:25
 Operator : 60841 Inst ID: md.i
 Smp Info : A9DG262,,1,2,,STD025
 Misc Info : D072611I,8270a9,appdx9.sub
 Comment : Semivolatile Organic Compounds by GC/MS
 Method : /var/chem/gcms/md.i/D072611I.b/8270a9.m
 Meth Date : 26-Jul-2011 16:44 chemist Quant Type: ISTD
 Cal Date : 26-JUL-2011 16:25 Cal File: a9dg262.d
 Als bottle: 1 Calibration Sample, Level: 2
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: appdx9.sub
 Target Version: 3.50
 Processing Host: qmidhp01

Concentration Formula: Amt * DF * Vt*Sf/Ws * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	1000.00000	Volume of final extract (uL) (1000 low, 2
Sf	1.00000	Prep Split Factor
Ws	30.00000	Weight of sample extracted (g)

Cpnd Variable

Local Compound Variable

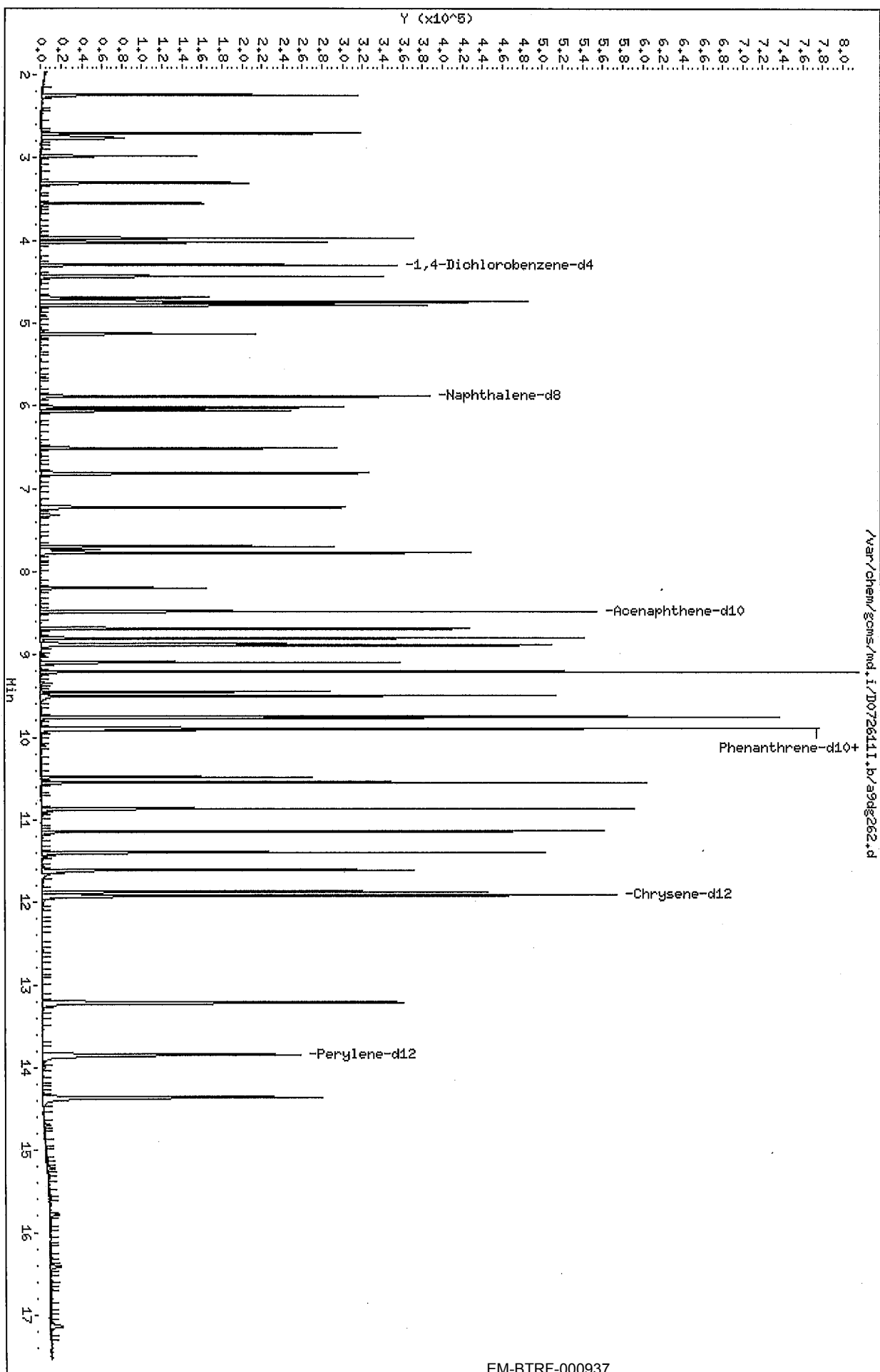
Compounds	QUANT	SIG	MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
								CAL-AMT (ng/uL)	ON-COL (ng/uL)
* 1 1,4-Dichlorobenzene-d4	152		4.301	4.301	(1.000)	45732	20.0000	20.0	
* 2 Naphthalene-d8	136		5.887	5.887	(1.000)	176426	20.0000	20.0	
* 3 Acenaphthene-d10	164		8.484	8.484	(1.000)	101609	20.0000	20.0	
* 4 Phenanthrene-d10	188		9.895	9.895	(1.000)	204225	20.0000	20.0	
* 5 Chrysene-d12	240		11.922	11.922	(1.000)	210084	20.0000	20.0	
* 6 Perylene-d12	264		13.849	13.849	(1.000)	172372	20.0000	20.0	
176 2-Picoline	93		2.703	2.703	(0.628)	62761	25.0000	23.8	
86 N-nitrosomethylethylamine	42		2.762	2.762	(0.642)	46937	25.0000	23.8	
87 Methyl methanosulfonate	80		2.979	2.979	(0.693)	40421	25.0000	24.6	
88 N-nitrosodiethylamine	102		3.308	3.308	(0.769)	29782	25.0000	23.2	
89 Ethyl methanosulfonate	79		3.555	3.555	(0.826)	46279	25.0000	23.7	
90 Pentachloroethane	167		4.031	4.031	(0.937)	29418	25.0000	24.9	
91 acetophenone	105		4.736	4.736	(1.101)	95047	25.0000	24.3	
92 m-cresol	108		4.753	4.753	(1.105)	62072	25.0000	23.1	

Data File: /chem/gcms/md.i/D072611I.b/a9dg262.d
 Report Date: 26-Jul-2011 16:44

Compounds	QUANT SIG					AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ng/uL)	ON-COL (ng/uL)
=====	====	==	=====	=====	=====	=====	=====
93 n-nitrosopyrrolidine	100	4.695	4.695	(1.092)	33354	25.0000	23.2
94 n-nitrosomorpholine	56	4.742	4.742	(1.102)	52214	25.0000	24.0
95 o-toluidine	106	4.783	4.783	(1.112)	104664	25.0000	25.0
96 n-nitrosopiperidine	42	5.135	5.135	(0.872)	59365	25.0000	23.5
97 2,6-dichlorophenol	162	6.017	6.017	(1.022)	57372	25.0000	23.1
98 hexachloropropene	213	6.064	6.064	(1.030)	44455	25.0000	23.4
99 N-nitro-di-n-butylamine	84	6.516	6.516	(1.107)	38970	25.0000	22.8
100 Isosafrole	162	6.822	6.822	(1.159)	53930	25.0000	24.1
101 1,2,4,5-tetrachlorobenzene	216	7.233	7.233	(1.229)	70980	25.0000	24.5
102 safrole	162	7.697	7.697	(0.907)	49885	25.0000	23.2
103 1-chloronaphthalene	162	7.773	7.773	(0.916)	133636	25.0000	25.1
104 m-dinitrobenzene	168	8.197	8.197	(0.966)	16021	25.0000	20.2
105 pentachlorobenzene	250	8.690	8.690	(1.024)	62425	25.0000	25.0
106 1-naphthylamine	143	8.802	8.802	(1.037)	140048	25.0000	24.2
107 2-naphthylamine	143	8.884	8.884	(1.047)	151710	25.0000	25.8
108 2,3,4,6-tetrachlorophenol	232	8.872	8.872	(1.046)	29231	25.0000	20.9
109 5-nitro-o-toluidine	152	9.095	9.095	(1.072)	40165	25.0000	22.5
110 diphenylamine	169	9.207	9.207	(0.931)	144956	25.0000	23.6
111 1,3,5-trinitrobenzene	75	9.448	9.448	(0.955)	44389	25.0000	17.9
112 phenacetin	108	9.501	9.501	(0.960)	70266	25.0000	22.1
113 4-aminobiphenyl	169	9.754	9.754	(0.986)	186618	25.0000	24.2
114 pentachloronitrobenzene	237	9.765	9.765	(0.987)	20569	25.0000	23.8
115 Dinoseb	211	9.912	9.912	(1.002)	19963	25.0000	17.0
84 Benzidine	184	10.870	10.870	(1.099)	163910	25.0000	22.9
116 p-(dimethylamino)azobenzene	120	11.140	11.140	(1.126)	73696	25.0000	22.6
117 o-tolidine	212	11.399	11.399	(1.152)	150060	25.0000	21.7
119 7,12-dimethylbenz(a)anthracen	256	13.220	13.220	(1.109)	110374	25.0000	22.0
118 2-acetylaminofluorene	181	11.610	11.610	(0.974)	89339	25.0000	19.6
120 3-methylcholanthrene	268	14.366	14.366	(1.037)	100928	25.0000	21.0

Data File: /var/chem/gcms/md.i/D072611.b/a9d262.d
 Date : 26-JUL-2011 16:25
 Client ID: STD025
 Sample Info: A9D262,1,2,STD025
 Volume Injected (uL): 1.0
 Column phase: Rxi-5 Sil MS

Instrument: md.i
 Operator: 60841
 Column diameter: 0.25



Data File: /chem/gcms/md.i/D072611I.b/a9dg263.d
 Report Date: 26-Jul-2011 16:18

TestAmerica Knoxville

Semivolatile Organic Compounds by GC/MS

Data file : /chem/gcms/md.i/D072611I.b/a9dg263.d
 Lab Smp Id: A9DG263 Client Smp ID: STD040
 Inj Date : 26-JUL-2011 16:00
 Operator : 60841 Inst ID: md.i
 Smp Info : A9DG263,,1,3,,STD040
 Misc Info : D072611I,8270a9,appdx9.sub
 Comment : Semivolatile Organic Compounds by GC/MS
 Method : /var/chem/gcms/md.i/D072611I.b/8270a9.m
 Meth Date : 26-Jul-2011 16:18 chemist Quant Type: ISTD
 Cal Date : 26-JUL-2011 16:00 Cal File: a9dg263.d
 Als bottle: 1 Calibration Sample, Level: 3
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: appdx9.sub
 Target Version: 3.50
 Processing Host: qmidhp01

Concentration Formula: Amt * DF * Vt*Sf/Ws * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	1000.00000	Volume of final extract (uL) (1000 low, 2
Sf	1.00000	Prep Split Factor
Ws	30.00000	Weight of sample extracted (g)

Cpnd Variable

Local Compound Variable

Compounds	QUANT SIG	MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
							CAL-AMT (ng/uL)	ON-COL (ng/uL)
* 1 1,4-Dichlorobenzene-d4	=====	152	4.301	4.301	(1.000)	48503	20.0000	20.0
* 2 Naphthalene-d8	=====	136	5.887	5.887	(1.000)	181092	20.0000	20.0
* 3 Acenaphthene-d10	=====	164	8.484	8.484	(1.000)	108439	20.0000	20.0
* 4 Phenanthrene-d10	=====	188	9.895	9.895	(1.000)	216123	20.0000	20.0
* 5 Chrysene-d12	=====	240	11.922	11.922	(1.000)	222998	20.0000	20.0
* 6 Perylene-d12	=====	264	13.849	13.849	(1.000)	189292	20.0000	20.0
176 2-Picoline	=====	93	2.703	2.703	(0.628)	107483	40.0000	37.9
86 N-nitrosomethylethylamine	=====	42	2.762	2.762	(0.642)	78456	40.0000	37.0
87 Methyl methanosulfonate	=====	80	2.979	2.979	(0.693)	65214	40.0000	37.3
88 N-nitrosodiethylamine	=====	102	3.308	3.308	(0.769)	51409	40.0000	37.2
89 Ethyl methanosulfonate	=====	79	3.555	3.555	(0.826)	78435	40.0000	37.4
90 Pentachloroethane	=====	167	4.025	4.025	(0.936)	47720	40.0000	38.1
91 acetophenone	=====	105	4.736	4.736	(1.101)	155816	40.0000	37.2
92 m-cresol	=====	108	4.753	4.753	(1.105)	106456	40.0000	36.6

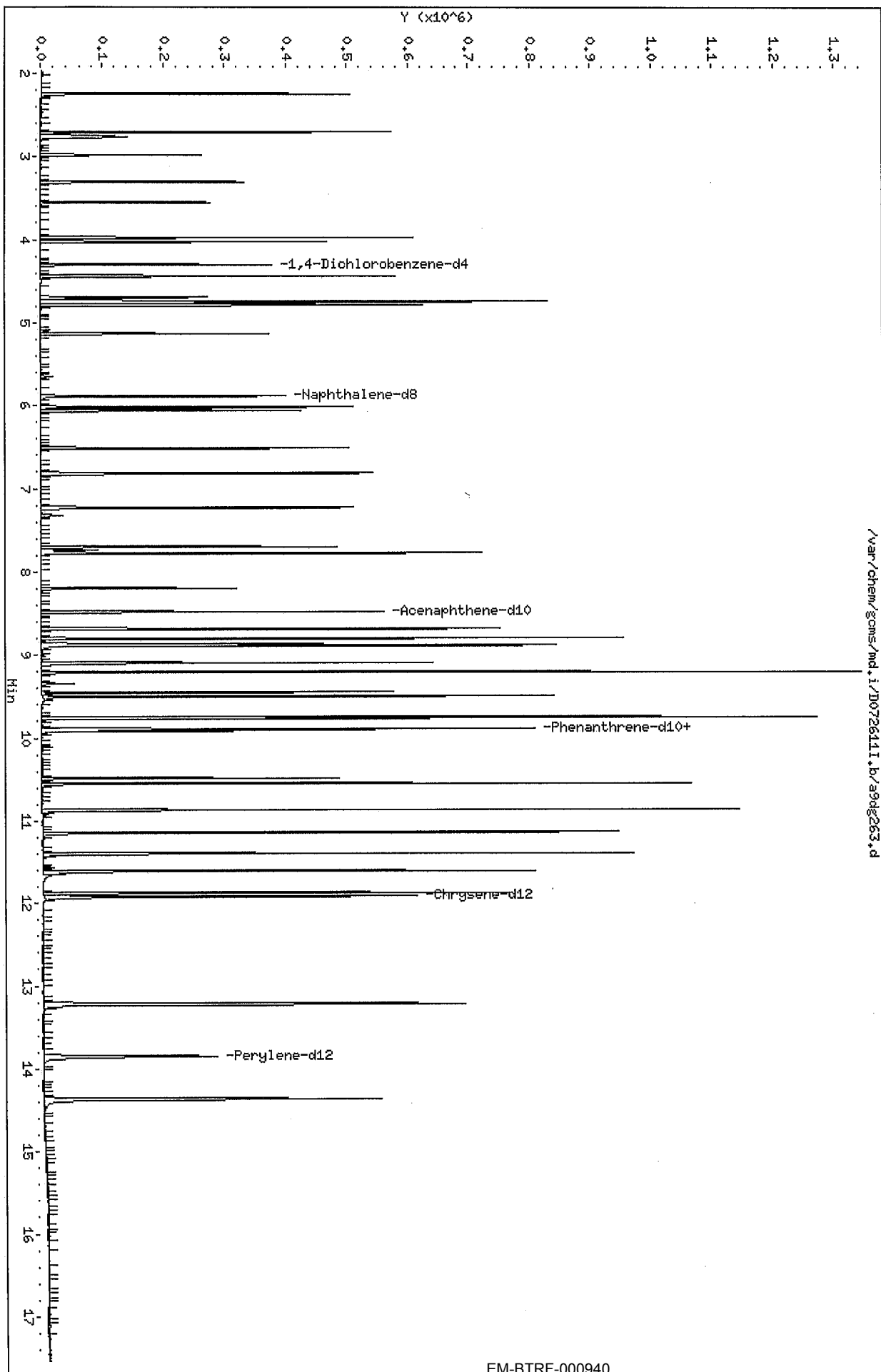
Data File: /chem/gcms/md.i/D072611I.b/a9dg263.d

Report Date: 26-Jul-2011 16:18

Compounds	QUANT SIG					AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ng/uL)	ON-COL (ng/uL)
=====	=====	==	=====	=====	=====	=====	=====
93 n-nitrosopyrrolidine	100	4.695	4.695	(1.092)	56814	40.0000	36.6
94 n-nitrosomorpholine	56	4.742	4.742	(1.102)	87059	40.0000	37.3
95 o-toluidine	106	4.783	4.783	(1.112)	168825	40.0000	38.0
96 n-nitrosopiperidine	42	5.135	5.135	(0.872)	100810	40.0000	38.4
97 2,6-dichlorophenol	162	6.017	6.017	(1.022)	97921	40.0000	37.7
98 hexachloropropene	213	6.064	6.064	(1.030)	74888	40.0000	37.8
99 N-nitro-di-n-butylamine	84	6.516	6.516	(1.107)	67268	40.0000	37.6
100 Isosafrole	162	6.816	6.816	(1.158)	88565	40.0000	38.2
101 1,2,4,5-tetrachlorobenzene	216	7.227	7.227	(1.228)	114820	40.0000	38.3
102 safrole	162	7.697	7.697	(0.907)	85981	40.0000	36.9
103 1-chloronaphthalene	162	7.773	7.773	(0.916)	217198	40.0000	38.2
104 m-dinitrobenzene	168	8.197	8.197	(0.966)	30691	40.0000	34.5
105 pentachlorobenzene	250	8.684	8.684	(1.024)	102721	40.0000	38.6
106 1-naphthylamine	143	8.802	8.802	(1.037)	244667	40.0000	39.4
107 2-naphthylamine	143	8.884	8.884	(1.047)	243133	40.0000	39.2
108 2,3,4,6-tetrachlorophenol	232	8.872	8.872	(1.046)	55231	40.0000	35.6
109 5-nitro-o-toluidine	152	9.095	9.095	(1.072)	70800	40.0000	36.3
110 diphenylamine	169	9.207	9.207	(0.931)	244478	40.0000	37.1
111 1,3,5-trinitrobenzene	75	9.448	9.448	(0.955)	91896	40.0000	32.6
112 phenacetin	108	9.501	9.501	(0.960)	123029	40.0000	35.6
113 4-aminobiphenyl	169	9.754	9.754	(0.986)	318680	40.0000	38.7
114 pentachloronitrobenzene	237	9.771	9.771	(0.988)	33878	40.0000	36.6
115 Dinoseb	211	9.912	9.912	(1.002)	42189	40.0000	31.5
84 Benzidine	184	10.870	10.870	(1.099)	292102	40.0000	37.8
116 p-(dimethylamino)azobenzene	120	11.140	11.140	(1.126)	129023	40.0000	36.6
117 o-tolidine	212	11.399	11.399	(1.152)	274510	40.0000	36.4
119 7,12-dimethylbenz(a)anthracen	256	13.220	13.220	(1.109)	197177	40.0000	35.8
118 2-acetylaminofluorene	181	11.610	11.610	(0.974)	173445	40.0000	33.9
120 3-methylcholanthrene	268	14.366	14.366	(1.037)	189476	40.0000	34.5

Data File: /var/chem/gcms/md.i/D0726111.b/a9d8263.d
Date: 26-JUL-2011 16:00
Client ID: STD040
Sample Info: a9d8263,1,3,,STD040
Volume Injected (uL): 1.0
Column phase: Rxi-5 Sil MS

Instrument: md.i
Operator: 60841
Column diameter: 0.25



Data File: /chem/gcms/md.i/D072611I.b/a9dg264.d

Report Date: 26-Jul-2011 15:52

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Semivolatile Organic Compounds by GC/MS

Data file : /chem/gcms/md.i/D072611I.b/a9dg264.d
 Lab Smp Id: A9DG264 Client Smp ID: STD060
 Inj Date : 26-JUL-2011 15:34
 Operator : 60841 Inst ID: md.i
 Smp Info : A9DG264,,1,4,,STD060
 Misc Info : D072611I,8270a9,appdx9.sub
 Comment : Semivolatile Organic Compounds by GC/MS
 Method : /var/chem/gcms/md.i/D072611I.b/8270a9.m
 Meth Date : 26-Jul-2011 15:52 chemist Quant Type: ISTD
 Cal Date : 26-JUL-2011 15:34 Cal File: a9dg264.d
 Als bottle: 1 Calibration Sample, Level: 4
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: appdx9.sub
 Target Version: 3.50
 Processing Host: qmidhp01

Concentration Formula: Amt * DF * Vt*Sf/Ws * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	1000.00000	Volume of final extract (uL) (1000 low, 2
Sf	1.00000	Prep Split Factor
Ws	30.00000	Weight of sample extracted (g)

Cpnd Variable

Local Compound Variable

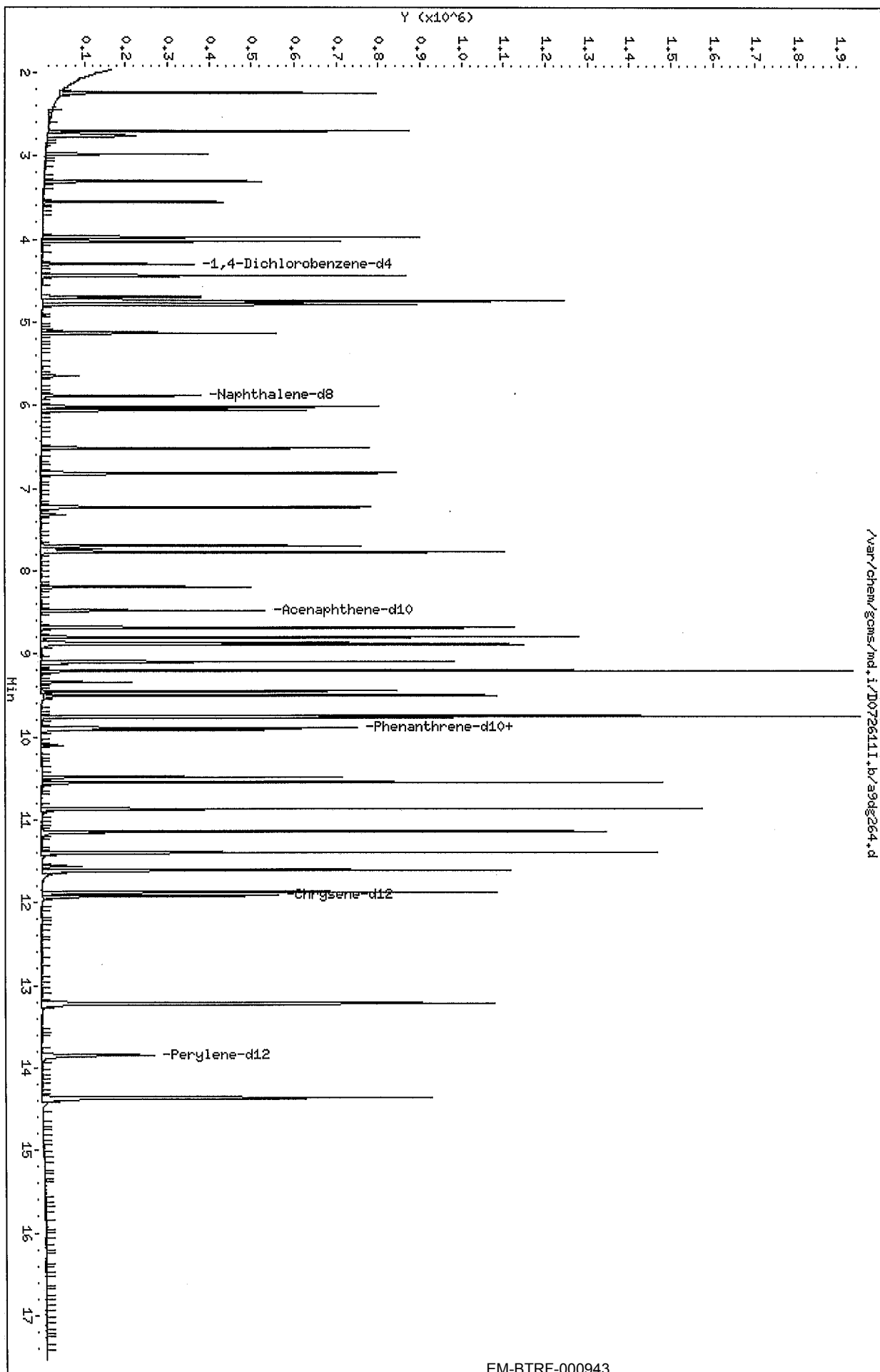
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
						CAL-AMT (ng/uL)	ON-COL (ng/uL)
* 1 1,4-Dichlorobenzene-d4	152	4.301	4.301	(1.000)	44644	20.0000	20.0
* 2 Naphthalene-d8	136	5.887	5.887	(1.000)	172857	20.0000	20.0
* 3 Acenaphthene-d10	164	8.485	8.485	(1.000)	101300	20.0000	20.0
* 4 Phenanthrene-d10	188	9.895	9.895	(1.000)	197263	20.0000	20.0
* 5 Chrysene-d12	240	11.922	11.922	(1.000)	205125	20.0000	20.0
* 6 Perylene-d12	264	13.849	13.849	(1.000)	176143	20.0000	20.0
176 2-Picoline	93	2.703	2.703	(0.628)	159395	60.0000	60.1
86 N-nitrosomethylethylamine	42	2.762	2.762	(0.642)	122074	60.0000	61.0
87 Methyl methanosulfonate	80	2.979	2.979	(0.693)	98449	60.0000	59.8
88 N-nitrosodiethylamine	102	3.308	3.308	(0.769)	78080	60.0000	59.9
89 Ethyl methanosulfonate	79	3.555	3.555	(0.826)	118998	60.0000	60.2
90 Pentachloroethane	167	4.025	4.025	(0.936)	71168	60.0000	60.8
91 acetophenone	105	4.742	4.742	(1.102)	236854	60.0000	60.1
92 m-cresol	108	4.753	4.753	(1.105)	161842	60.0000	58.9

Data File: /chem/gcms/md.i/D072611I.b/a9dg264.d
 Report Date: 26-Jul-2011 15:52

Compounds	QUANT SIG			AMOUNTS			
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ng/uL)	ON-COL (ng/uL)
=====	=====	==	=====	=====	=====	=====	=====
93 n-nitrosopyrrolidine	100	4.701	4.701	(1.093)	88030	60.0000	60.0
94 n-nitrosomorpholine	56	4.742	4.742	(1.102)	132179	60.0000	60.3
95 o-toluidine	106	4.783	4.783	(1.112)	247346	60.0000	59.6
96 n-nitrosopiperidine	42	5.135	5.135	(0.872)	155123	60.0000	61.0
97 2,6-dichlorophenol	162	6.017	6.017	(1.022)	150218	60.0000	59.5
98 hexachloropropene	213	6.064	6.064	(1.030)	115672	60.0000	60.2
99 N-nitro-di-n-butylamine	84	6.516	6.516	(1.107)	104321	60.0000	59.9
100 Isosafrole	162	6.822	6.822	(1.159)	133484	60.0000	59.5
101 1,2,4,5-tetrachlorobenzene	216	7.227	7.227	(1.228)	177428	60.0000	61.2
102 safrole	162	7.697	7.697	(0.907)	133280	60.0000	59.7
103 1-chloronaphthalene	162	7.774	7.774	(0.916)	332410	60.0000	61.8
104 m-dinitrobenzene	168	8.197	8.197	(0.966)	50246	60.0000	57.8
105 pentachlorobenzene	250	8.684	8.684	(1.024)	152156	60.0000	60.4
106 1-naphthylamine	143	8.802	8.802	(1.037)	342834	60.0000	58.8
107 2-naphthylamine	143	8.890	8.890	(1.048)	335981	60.0000	57.4
108 2,3,4,6-tetrachlorophenol	232	8.872	8.872	(1.046)	83863	60.0000	55.8
109 5-nitro-o-toluidine	152	9.096	9.096	(1.072)	107968	60.0000	57.5
110 diphenylamine	169	9.207	9.207	(0.931)	371769	60.0000	60.4
111 1,3,5-trinitrobenzene	75	9.448	9.448	(0.955)	149470	60.0000	54.8
112 phenacetin	108	9.507	9.507	(0.961)	191497	60.0000	58.6
113 4-aminobiphenyl	169	9.754	9.754	(0.986)	462783	60.0000	60.9
114 pentachloronitrobenzene	237	9.771	9.771	(0.988)	52412	60.0000	60.4
115 Dinoseb	211	9.918	9.918	(1.002)	69480	60.0000	53.1
84 Benzidine	184	10.870	10.870	(1.099)	417089	60.0000	58.1
116 p-(dimethylamino)azobenzene	120	11.146	11.146	(1.126)	195949	60.0000	59.2
117 o-tolidine	212	11.399	11.399	(1.152)	397383	60.0000	56.0
119 7,12-dimethylbenz(a)anthracen	256	13.220	13.220	(1.109)	303799	60.0000	58.0
118 2-acetylaminofluorene	181	11.610	11.610	(0.974)	275193	60.0000	55.7
120 3-methylcholanthrene	268	14.366	14.366	(1.037)	306092	60.0000	56.9

Data File: /var/chem/gcms/md.i/D0726111.b/a9d8264.d
Date: 26-JUL-2011 15:34
Client ID: STD060
Sample Info: a9d8264, 1,4, STD060
Volume Injected (uL): 1.0
Column phase: Rxi-5 Sil MS

Instrument: md.i
Operator: 60841
Column diameter: 0.25



Data File: /var/chem/gcms/md.i/D072611I.b/a9dg265.d

Report Date: 26-Jul-2011 15:58

TestAmerica Knoxville

Semivolatile Organic Compounds by GC/MS

Data file : /var/chem/gcms/md.i/D072611I.b/a9dg265.d

Lab Smp Id: A9DG265

Client Smp ID: STD120

Inj Date : 26-JUL-2011 15:09

Operator : 60841

Inst ID: md.i

Smp Info : A9DG265,,1,5,,STD120

Misc Info : D072611I,8270a9,appdx9.sub

Comment : Semivolatile Organic Compounds by GC/MS

Method : /var/chem/gcms/md.i/D072611I.b/8270a9.m

Meth Date : 26-Jul-2011 15:58 mcgeek

Quant Type: ISTD

Cal Date : 26-JUL-2011 15:09

Cal File: a9dg265.d

Als bottle: 13

Calibration Sample, Level: 5

Dil Factor: 1.00000

Integrator: HP RTE

Compound Sublist: appdx9.sub

Target Version: 3.50

Processing Host: qmidhp01

Concentration Formula: Amt * DF * Vt*Sf/Ws * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	1000.00000	Volume of final extract (uL) (1000 low, 2
Sf	1.00000	Prep Split Factor
Ws	30.00000	Weight of sample extracted (g)

Cpnd Variable

Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
						CAL-AMT (ng/uL)	ON-COL (ng/uL)
* 1 1,4-Dichlorobenzene-d4	152	4.301	4.301	(1.000)	45685	20.0000	20.0
* 2 Naphthalene-d8	136	5.888	5.888	(1.000)	181133	20.0000	20.0
* 3 Acenaphthene-d10	164	8.485	8.485	(1.000)	106629	20.0000	20.0
* 4 Phenanthrene-d10	188	9.895	9.895	(1.000)	209134	20.0000	20.0
* 5 Chrysene-d12	240	11.922	11.922	(1.000)	216927	20.0000	20.0
* 6 Perylene-d12	264	13.855	13.855	(1.000)	188384	20.0000	20.0
176 2-Picoline	93	2.703	2.703	(0.628)	325782	120.000	120
86 N-nitrosomethylethylamine	42	2.768	2.768	(0.643)	244809	120.000	120
87 Methyl methanosulfonate	80	2.985	2.985	(0.694)	202882	120.000	120
88 N-nitrosodiethylamine	102	3.308	3.308	(0.769)	161524	120.000	121
89 Ethyl methanosulfonate	79	3.555	3.555	(0.826)	245078	120.000	121
90 Pentachloroethane	167	4.031	4.031	(0.937)	143714	120.000	120
91 acetophenone	105	4.742	4.742	(1.102)	485386	120.000	120
92 m-cresol	108	4.759	4.759	(1.107)	340473	120.000	121

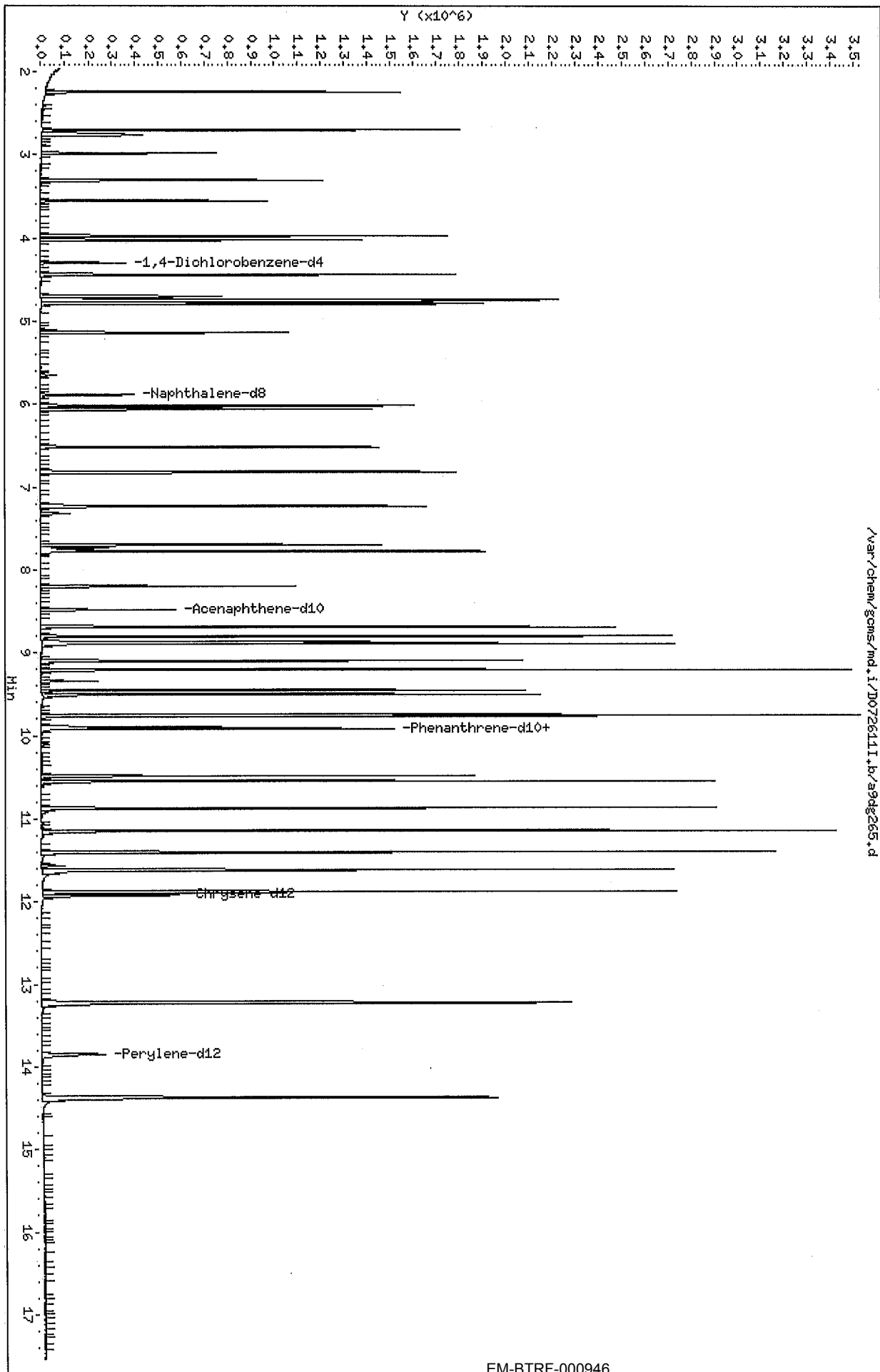
Data File: /var/chem/gcms/md.i/D072611I.b/a9dg265.d

Report Date: 26-Jul-2011 15:58

Compounds	QUANT SIG					AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ng/uL)	ON-COL (ng/uL)
=====	=====	==	=====	=====	=====	=====	=====
93 n-nitrosopyrrolidine	100	4.707	4.707	(1.094)	181010	120.000	120
94 n-nitrosomorpholine	56	4.748	4.748	(1.104)	270002	120.000	120
95 o-toluidine	106	4.789	4.789	(1.113)	539558	120.000	127
96 n-nitrosopiperidine	42	5.141	5.141	(0.873)	317267	120.000	119
97 2,6-dichlorophenol	162	6.017	6.017	(1.022)	321670	120.000	122
98 hexachloropropene	213	6.064	6.064	(1.030)	240974	120.000	120
99 N-nitro-di-n-butylamine	84	6.522	6.522	(1.108)	221285	120.000	121
100 Isosafrole	162	6.822	6.822	(1.159)	281745	120.000	120
101 1,2,4,5-tetrachlorobenzene	216	7.233	7.233	(1.229)	360886	120.000	119
102 safrole	162	7.703	7.703	(0.908)	283130	120.000	120
103 1-chloronaphthalene	162	7.779	7.779	(0.917)	656595	120.000	116
104 m-dinitrobenzene	168	8.202	8.202	(0.967)	113041	120.000	124
105 pentachlorobenzene	250	8.690	8.690	(1.024)	316230	120.000	119
106 1-naphthylamine	143	8.802	8.802	(1.037)	770301	120.000	125
107 2-naphthylamine	143	8.890	8.890	(1.048)	771842	120.000	125
108 2,3,4,6-tetrachlorophenol	232	8.872	8.872	(1.046)	193044	120.000	122
109 5-nitro-o-toluidine	152	9.101	9.101	(1.073)	245415	120.000	124
110 diphenylamine	169	9.213	9.213	(0.931)	771459	120.000	118
111 1,3,5-trinitrobenzene	75	9.454	9.454	(0.955)	358646	120.000	124
112 phenacetin	108	9.513	9.513	(0.961)	417279	120.000	120
113 4-aminobiphenyl	169	9.754	9.754	(0.986)	915445	120.000	114
114 pentachloronitrobenzene	237	9.771	9.771	(0.988)	109807	120.000	119
115 Dinoseb	211	9.918	9.918	(1.002)	173429	120.000	125
84 Benzidine	184	10.876	10.876	(1.099)	986522	120.000	130
116 p-(dimethylamino)azobenzene	120	11.146	11.146	(1.126)	418730	120.000	119
117 o-tolidine	212	11.399	11.399	(1.152)	984326	120.000	131
119 7,12-dimethylbenz(a)anthracen	256	13.226	13.226	(1.109)	669726	120.000	121
118 2-acetylaminofluorene	181	11.616	11.616	(0.974)	647590	120.000	124
120 3-methylcholanthrene	268	14.378	14.378	(1.038)	691483	120.000	120

Data File: /var/chem/gcms/md.i/D0726111.b/a9d265.d
Date: 26-JUL-2011 15:09
Client ID: STD120
Sample Info: A9D265,1,5,STD120
Volume Injected (uL): 1.0
Column phase: Rxi-5 Sil MS

Instrument: md.i
Operator: 60841
Column diameter: 0.25



EM-BTRF-000946

Data File: /var/chem/gcms/md.i/D072611I.b/a9dg268.d
 Report Date: 26-Jul-2011 15:58

TestAmerica Knoxville

Semivolatile Organic Compounds by GC/MS

Data file: /var/chem/gcms/md.i/D072611I.b/a9dg268.d
 Lab Smp Id: A9DG268 Client Smp ID: STD200
 Inj Date: 26-JUL-2011 14:43
 Operator: 60841 Inst ID: md.i
 Smp Info: A9DG268,,1,8,,STD200
 Misc Info: D072611I,8270a9,appdx9.sub
 Comment: Semivolatile Organic Compounds by GC/MS
 Method: /var/chem/gcms/md.i/D072611I.b/8270a9.m
 Meth Date: 26-Jul-2011 15:58 mcgeek Quant Type: ISTD
 Cal Date: 26-JUL-2011 14:43 Cal File: a9dg268.d
 Als bottle: 12 Calibration Sample, Level: 8
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: appdx9.sub
 Target Version: 3.50
 Processing Host: qmidhp01

Concentration Formula: Amt * DF * Vt*Sf/Ws * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	1000.00000	Volume of final extract (uL) (1000 low, 2
Sf	1.00000	Prep Split Factor
Ws	30.00000	Weight of sample extracted (g)

Cpnd Variable

Local Compound Variable

Compounds	QUANT SIG	MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
							CAL-AMT (ng/uL)	ON-COL (ng/uL)
* 1 1,4-Dichlorobenzene-d4	152	4.301	4.301	(1.000)	41423	20.0000	20.0	
* 2 Naphthalene-d8	136	5.887	5.887	(1.000)	164402	20.0000	20.0	
* 3 Acenaphthene-d10	164	8.484	8.484	(1.000)	95001	20.0000	20.0	
* 4 Phenanthrene-d10	188	9.895	9.895	(1.000)	185601	20.0000	20.0	
* 5 Chrysene-d12	240	11.922	11.922	(1.000)	200959	20.0000	20.0	
* 6 Perylene-d12	264	13.849	13.849	(1.000)	175910	20.0000	20.0	
176 2-Picoline	93	2.703	2.703	(0.628)	491163	200.000	200 (A)	
86 N-nitrosomethylethylamine	42	2.767	2.767	(0.643)	366721	200.000	197 (A)	
87 Methyl methanosulfonate	80	2.991	2.991	(0.695)	305297	200.000	200 (A)	
88 N-nitrosodiethylamine	102	3.314	3.314	(0.770)	239578	200.000	198 (A)	
89 Ethyl methanosulfonate	79	3.561	3.561	(0.828)	361330	200.000	197 (A)	
90 Pentachloroethane	167	4.031	4.031	(0.937)	214766	200.000	198 (A)	
91 acetophenone	105	4.748	4.748	(1.104)	726174	200.000	199 (A)	
92 m-cresol	108	4.765	4.765	(1.108)	515468	200.000	202 (A)	

Data File: /var/chem/gcms/md.i/D072611I.b/a9dg268.d
 Report Date: 26-Jul-2011 15:58

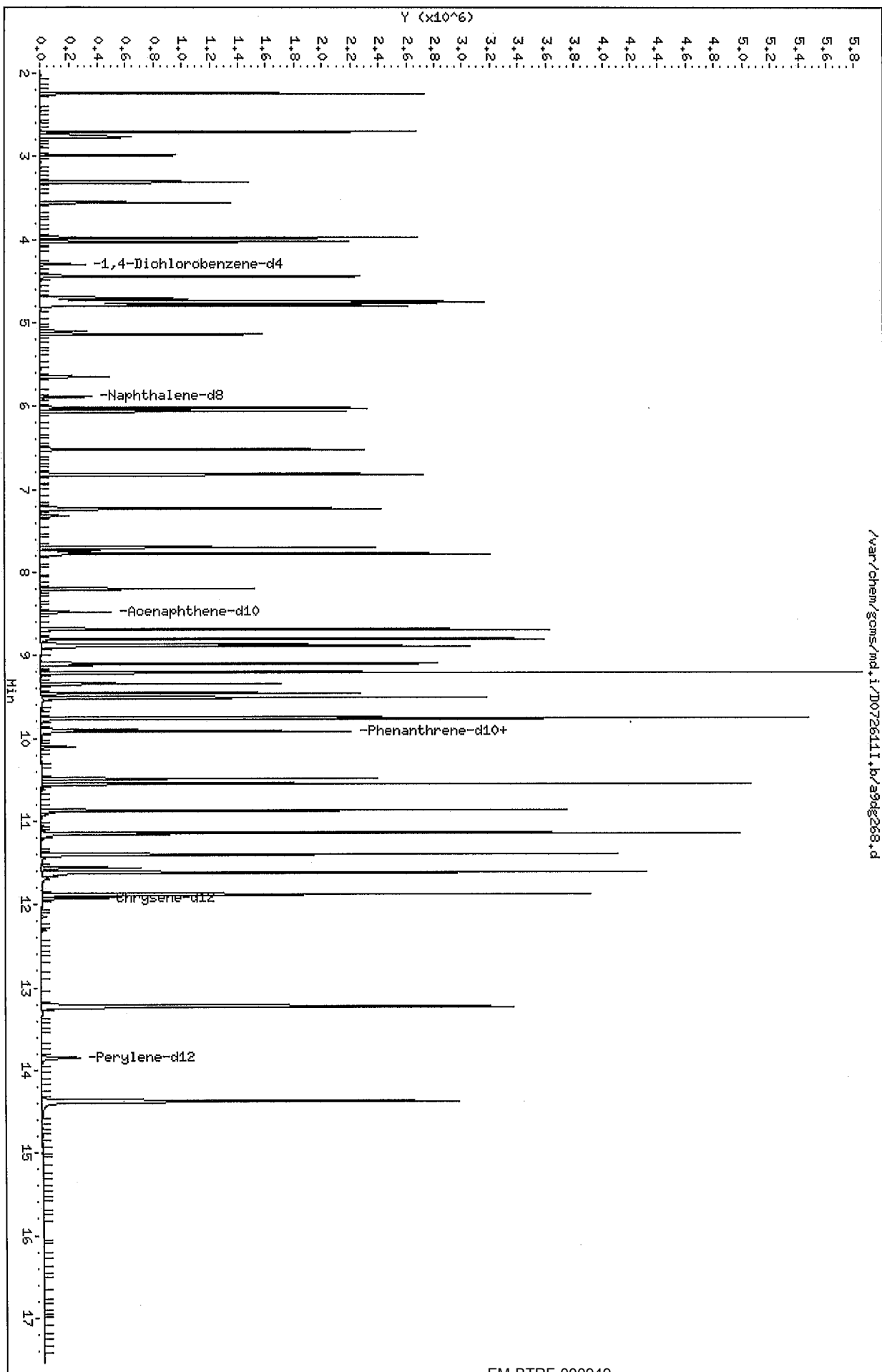
Compounds	QUANT SIG					AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ng/uL)	ON-COL (ng/uL)
=====	=====	==	=====	=====	=====	=====	=====
93 n-nitrosopyrrolidine	100	4.712	4.712	(1.096)	271208	200.000	199 (A)
94 n-nitrosomorpholine	56	4.753	4.753	(1.105)	404279	200.000	199 (A)
95 o-toluidine	106	4.795	4.795	(1.115)	730891	200.000	190 (A)
96 n-nitrosopiperidine	42	5.141	5.141	(0.873)	479337	200.000	198 (A)
97 2,6-dichlorophenol	162	6.023	6.023	(1.023)	477358	200.000	199 (A)
98 hexachloropropene	213	6.064	6.064	(1.030)	366000	200.000	200 (A)
99 N-nitro-di-n-butylamine	84	6.522	6.522	(1.108)	328140	200.000	198 (A)
100 Isosafrole	162	6.822	6.822	(1.159)	430173	200.000	202 (A)
101 1,2,4,5-tetrachlorobenzene	216	7.233	7.233	(1.229)	545188	200.000	198 (A)
102 safrole	162	7.703	7.703	(0.908)	419942	200.000	200 (A)
103 1-chloronaphthalene	162	7.779	7.779	(0.917)	1014838	200.000	201 (A)
104 m-dinitrobenzene	168	8.202	8.202	(0.967)	164156	200.000	201 (A)
105 pentachlorobenzene	250	8.690	8.690	(1.024)	471923	200.000	200 (A)
106 1-naphthylamine	143	8.808	8.808	(1.038)	1066381	200.000	195 (A)
107 2-naphthylamine	143	8.896	8.896	(1.048)	927722	200.000	169 (A)
108 2,3,4,6-tetrachlorophenol	232	8.872	8.872	(1.046)	297593	200.000	211 (A)
109 5-nitro-o-toluidine	152	9.101	9.101	(1.073)	354647	200.000	201 (A)
110 diphenylamine	169	9.213	9.213	(0.931)	1167964	200.000	202 (A)
111 1,3,5-trinitrobenzene	75	9.454	9.454	(0.955)	540041	200.000	210 (A)
112 phenacetin	108	9.513	9.513	(0.961)	626612	200.000	204 (A)
113 4-aminobiphenyl	169	9.759	9.759	(0.986)	1481886	200.000	207 (A)
114 pentachloronitrobenzene	237	9.771	9.771	(0.988)	162731	200.000	199 (A)
115 Dinoseb	211	9.918	9.918	(1.002)	263707	200.000	214 (A)
84 Benzidine	184	10.876	10.876	(1.099)	1285495	200.000	190 (A)
116 p-(dimethylamino)azobenzene	120	11.146	11.146	(1.126)	635854	200.000	204 (A)
117 o-tolidine	212	11.399	11.399	(1.152)	1302145	200.000	195 (A)
119 7,12-dimethylbenz(a)anthracen	256	13.232	13.232	(1.110)	1049627	200.000	205 (A)
118 2-acetylaminofluorene	181	11.622	11.622	(0.975)	1004618	200.000	208 (A)
120 3-methylcholanthrene	268	14.378	14.378	(1.038)	1104775	200.000	207 (A)

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

Data File: /var/chem/gcms/md.i/D072611.b/a9d268.d
Date: 26-JUL-2011 14:43
Client ID: STD200
Sample Info: A9D268,1,8,STD200
Volume Injected (uL): 1.0
Column phase: Rxi-5 Sil MS

Instrument: md.i
Operator: 60841
Column diameter: 0.25



Data File: /var/chem/gcms/md.i/D072611I.b/a9vdg26.d
 Report Date: 27-Jul-2011 13:06

TestAmerica Knoxville

Semivolatiles Organic Compounds by GC/MS

Data file : /var/chem/gcms/md.i/D072611I.b/a9vdg26.d
 Lab Smp Id: A9VDG26 Client Smp ID: 2ND SOURCE
 Inj Date : 26-JUL-2011 18:07
 Operator : 60841 Inst ID: md.i
 Smp Info : A9VDG26,,3,,,2ND SOURCE
 Misc Info : D072611I,8270a9,appdx9.sub
 Comment : Semivolatiles Organic Compounds by GC/MS
 Method : /var/chem/gcms/md.i/D072611I.b/8270a9.m
 Meth Date : 27-Jul-2011 13:05 wilesd Quant Type: ISTD
 Cal Date : 26-JUL-2011 17:42 Cal File: a9dg267.d
 Als bottle: 20 QC Sample: BLANK
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: appdx9.sub
 Target Version: 3.50
 Processing Host: qmidhp01

Concentration Formula: Amt * DF * Vt*Sf/Ws * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	1000.00000	Volume of final extract (uL) (1000 low, 2
Sf	1.00000	Prep Split Factor
Ws	30.00000	Weight of sample extracted (g)

Cpnd Variable

Local Compound Variable

						CONCENTRATIONS		
		QUANT SIG				ON-COLUMN	FINAL	
Compounds		MASS	RT	EXP RT	REL RT	RESPONSE	(ng/uL)	(ug/Kg)
=====		=====	==	=====	=====	=====	=====	=====
*	1 1,4-Dichlorobenzene-d4	152	4.301	4.301	(1.000)	56568	20.0000	20.0
*	2 Naphthalene-d8	136	5.887	5.888	(1.000)	221010	20.0000	20.0
*	3 Acenaphthene-d10	164	8.484	8.485	(1.000)	126694	20.0000	20.0
*	4 Phenanthrene-d10	188	9.895	9.895	(1.000)	251289	20.0000	20.0
*	5 Chrysene-d12	240	11.928	11.922	(1.000)	260162	20.0000	20.0
*	6 Perylene-d12	264	13.855	13.855	(1.000)	228234	20.0000	20.0
	176 2-Picoline	93	2.703	2.715	(0.628)	193344	58.8393	1960
	86 N-nitrosomethylethylamine	42	2.762	2.768	(0.642)	139427	57.0966	1900
	87 Methyl methanosulfonate	80	2.979	2.979	(0.693)	116641	57.6100	1920
	88 N-nitrosodiethylamine	102	3.308	3.308	(0.769)	89494	57.3786	1910
	89 Ethyl methanosulfonate	79	3.555	3.555	(0.826)	133038	54.9692	1830
	90 Pentachloroethane	167	4.025	4.031	(0.936)	78410	53.9044	1800
	91 acetophenone	105	4.742	4.742	(1.102)	264821	54.9382	1830
	93 n-nitrosopyrrolidine	100	4.701	4.707	(1.093)	99733	58.6249	1950

Data File: /var/chem/gcms/md.i/D072611I.b/a9vdg26.d
 Report Date: 27-Jul-2011 13:06

Compounds	QUANT SIG					CONCENTRATIONS	
	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ng/uL)	FINAL (ug/Kg)
=====	=====	==	=====	=====	=====	=====	=====
94 n-nitrosomorpholine	56	4.742	4.748	(1.102)	154105	57.1440	1900
95 o-toluidine	106	4.783	4.783	(1.112)	307322	59.0513	1970
96 n-nitrosopiperidine	42	5.135	5.141	(0.872)	177315	57.3039	1910
97 2,6-dichlorophenol	162	6.023	6.023	(1.023)	163191	55.5937	1850
98 hexachloropropene	213	6.064	6.064	(1.030)	120719	52.0386	1730
99 N-nitro-di-n-butylamine	84	6.516	6.522	(1.107)	126572	62.0899	2070
100 Isosafrole	162	6.822	6.822	(1.159)	161644	59.6695	1990
101 1,2,4,5-tetrachlorobenzene	216	7.227	7.233	(1.228)	193285	52.8380	1760
102 safrole	162	7.697	7.697	(0.907)	165821	65.0933	2170
103 1-chloronaphthalene	162	7.773	7.774	(0.916)	384185	57.4050	1910
105 pentachlorobenzene	250	8.684	8.690	(1.024)	170262	54.5711	1820
106 1-naphthylamine	143	8.802	8.802	(1.037)	448006	64.6268	2150
107 2-naphthylamine	143	8.890	8.890	(1.048)	479808	67.8027	2260
109 5-nitro-o-toluidine	152	9.095	9.096	(1.072)	124889	59.2260	1970
111 1,3,5-trinitrobenzene	75	9.448	9.448	(0.955)	66293	26.8579	895 (R)
112 phenacetin	108	9.507	9.501	(0.961)	207995	52.7818	1760
113 4-aminobiphenyl	169	9.754	9.754	(0.986)	554520	61.1407	2040
114 pentachloronitrobenzene	237	9.771	9.765	(0.988)	58676	56.3665	1880
115 Dinoseb	211	9.918	9.912	(1.002)	71839	49.5770	1650
84 Benzidine	184	10.870	10.870	(1.099)	553431	62.8987	2100
116 p-(dimethylamino)azobenzene	120	11.146	11.146	(1.126)	234192	61.2969	2040
117 o-tolidine	212	11.405	11.399	(1.153)	1083705	127.575	4250 (R)
119 7,12-dimethylbenz(a)anthracen	256	13.226	13.220	(1.109)	356064	56.2082	1870
118 2-acetylaminofluorene	181	11.616	11.604	(0.974)	338715	57.8854	1930
120 3-methylcholanthrene	268	14.372	14.360	(1.037)	354145	54.5213	1820

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

Data File: /var/chem/gcms/md.i/D072611I.b/a9vdg26.d
 Report Date: 27-Jul-2011 09:21

TestAmerica Knoxville

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: md.i	Calibration Date: 26-JUL-2011
Lab File ID: a9vdg26.d	Calibration Time: 15:34
Lab Smp Id: A9VDG26	Client Smp ID: 2ND SOURCE
Analysis Type: SV	Level: LOW
Quant Type: ISTD	Sample Type: SOIL
Operator: 60841	
Method File: /var/chem/gcms/md.i/D072611I.b/8270a9.m	
Misc Info: D072611I, 8270a9, appdx9.sub	

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
1 1,4-Dichlorobenze	44644	22322	89288	56568	26.71
2 Naphthalene-d8	172857	86428	345714	221010	27.86
3 Acenaphthene-d10	101300	50650	202600	126694	25.07
4 Phenanthrene-d10	197263	98632	394526	251289	27.39
5 Chrysene-d12	205125	102562	410250	260162	26.83
6 Perylene-d12	176143	88072	352286	228234	29.57

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
1 1,4-Dichlorobenze	4.30	3.80	4.80	4.30	0.00
2 Naphthalene-d8	5.89	5.39	6.39	5.89	0.00
3 Acenaphthene-d10	8.48	7.98	8.98	8.48	0.00
4 Phenanthrene-d10	9.89	9.39	10.39	9.89	0.00
5 Chrysene-d12	11.92	11.42	12.42	11.93	0.05
6 Perylene-d12	13.85	13.35	14.35	13.85	0.04

AREA UPPER LIMIT = +100% of internal standard area.
 AREA LOWER LIMIT = - 50% of internal standard area.
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /var/chem/gcms/md.i/D072611I.b/a9vdg26.d
 Report Date: 27-Jul-2011 13:06

TestAmerica Knoxville

RECOVERY REPORT

Client Name: Client SDG: D072611I
 Sample Matrix: SOLID Fraction: SV
 Lab Smp Id: A9VDG26 Client Smp ID: 2ND SOURCE
 Level: LOW Operator: 60841
 Data Type: MS DATA SampleType: BLANK
 SpikeList File: a9lcs.spk Quant Type: ISTD
 Sublist File: appdx9.sub
 Method File: /var/chem/gcms/md.i/D072611I.b/8270a9.m
 Misc Info: D072611I, 8270a9, appdx9.sub

SPIKE COMPOUND	CONC ADDED ug/Kg	CONC RECOVERED ug/Kg	% RECOVERED	LIMITS
86 N-nitrosomethyleth	2000	1900	95.16	70-130
87 Methyl methanosulf	2000	1920	96.02	70-130
88 N-nitrosodiethylam	2000	1910	95.63	70-130
89 Ethyl methanosulfo	2000	1830	91.62	70-130
90 Pentachloroethane	2000	1800	89.84	70-130
91 acetophenone	2000	1830	91.56	70-130
92 m-cresol	2000	0.00	*	70-130
93 n-nitrosopyrrolidi	2000	1950	97.71	70-130
94 n-nitrosomorpholin	2000	1900	95.24	70-130
95 o-toluidine	2000	1970	98.42	70-130
96 n-nitrosopiperidin	2000	1910	95.51	70-130
97 2,6-dichlorophenol	2000	1850	92.66	70-130
98 hexachloropropene	2000	1730	86.73	70-130
99 N-nitro-di-n-butyl	2000	2070	103.48	70-130
100 Isosafrole	2000	1990	99.45	70-130
101 1,2,4,5-tetrachlor	2000	1760	88.06	70-130
102 safrole	2000	2170	108.49	70-130
103 1-chloronaphthalen	2000	1910	95.68	70-130
104 m-dinitrobenzene	2000	0.00	*	70-130
105 pentachlorobenzene	2000	1820	90.95	70-130
106 1-naphthylamine	2000	2150	107.71	70-130
107 2-naphthylamine	2000	2260	113.00	70-130
108 2,3,4,6-tetrachlo	2000	0.00	*	70-130
109 5-nitro-o-toluidin	2000	1970	98.71	70-130
110 diphenylamine	2000	0.00	*	70-130
111 1,3,5-trinitrobenz	2000	895	44.76*	70-130
112 phenacetin	2000	1760	87.97	70-130
113 4-aminobiphenyl	2000	2040	101.90	70-130
114 pentachloronitrobe	2000	1880	93.94	70-130
115 Dinoseb	2000	1650	82.63	70-130
84 Benzidine	2000	2100	104.83	70-130
116 p-(dimethylamino)a	2000	2040	102.16	70-130
118 2-acetylaminofluor	2000	1930	96.48	70-130

70-130

Ⓢ low
(NA)

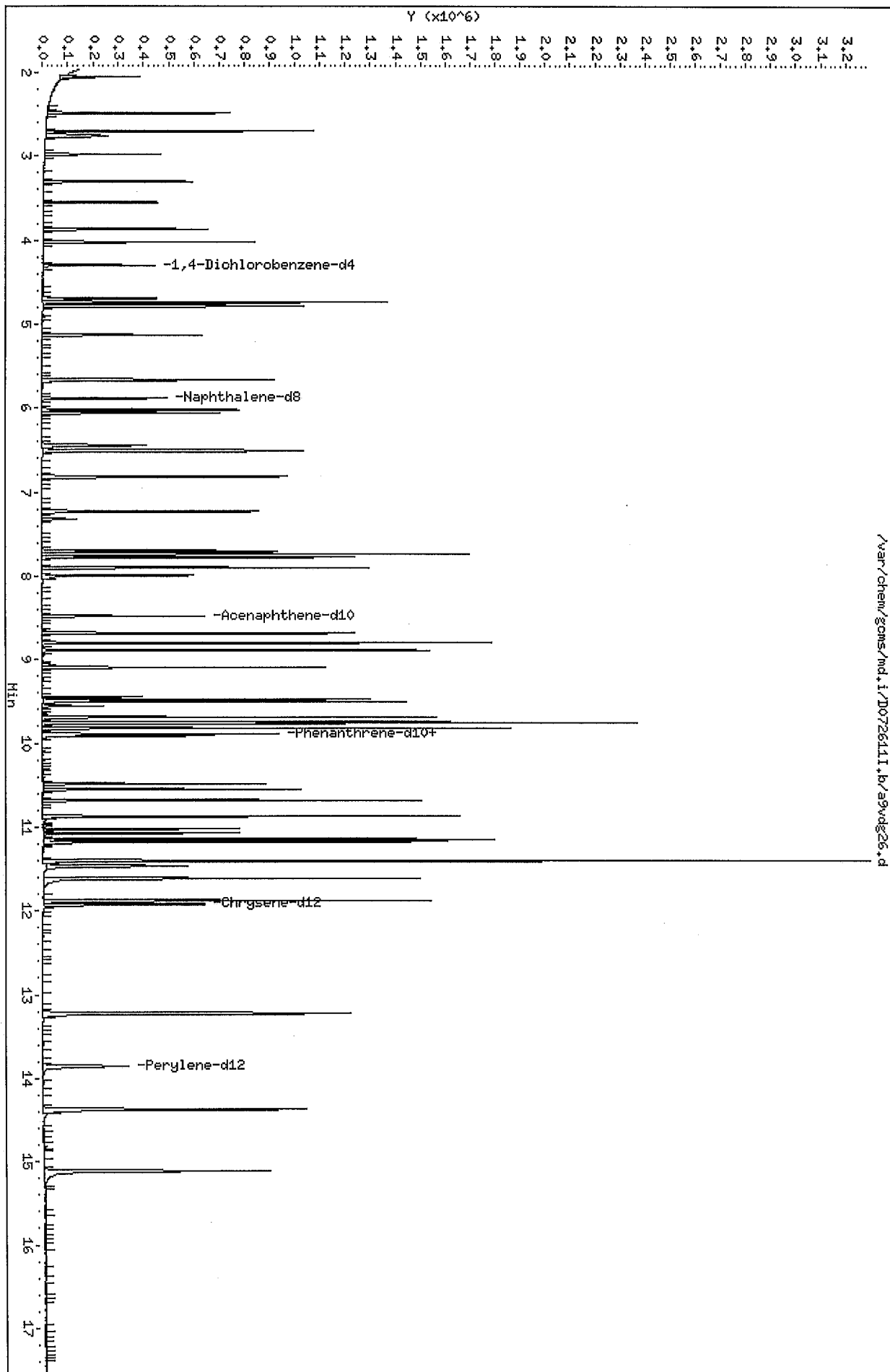
Data File: /var/chem/gcms/md.i/D072611I.b/a9vdg26.d
 Report Date: 27-Jul-2011 13:06

SPIKE COMPOUND	CONC ADDED ug/Kg	CONC RECOVERED ug/Kg	% RECOVERED	LIMITS
117 o-tolidine	2000 4000	4250	106% 212.63*	70-130
119 7,12-dimethylbenz (	2000	1870	93.68	70-130
120 3-methylcholanthre	2000	1820	90.87	70-130
176 2-Picoline	2000	1960	98.07	70-130
177 Methapyrilene HCL	2000	0.00	*	70-130
178 N-Nitroquinoline-	2000	0.00	*	70-130

7/27/11

Data File: /var/chem/gcms/md.i/D072611.b/a9vdg26.d
Date: 26-JUL-2011 18:07
Client ID: 2ND SOURCE
Sample Info: A9VDG26,,3,,,2ND SOURCE
Volume Injected (uL): 1.0
Column phase: Rxi-5 Sil MS

Instrument: md.i
Operator: 60841
Column diameter: 0.25



Data File: /var/chem/gcms/md.i/D072611I.b/icvdg25.d
 Report Date: 27-Jul-2011 09:26

TestAmerica Knoxville

Semivolatile Organic Compounds by GC/MS

Data file : /var/chem/gcms/md.i/D072611I.b/icvdg25.d
 Lab Smp Id: ICVDG25 Client Smp ID: 2ND SOURCE
 Inj Date : 25-JUL-2011 15:44
 Operator : 60841 Inst ID: md.i
 Smp Info : ICVDG25,,3,,,2ND SOURCE
 Misc Info : D072511I,8270a9,8270dxnC13.sub
 Comment : Semivolatile Organic Compounds by GC/MS
 Method : /var/chem/gcms/md.i/D072611I.b/8270a9.m
 Meth Date : 27-Jul-2011 08:43 mcgeek Quant Type: ISTD
 Cal Date : 26-JUL-2011 17:42 Cal File: a9dg267.d
 Als bottle: 11 QC Sample: BLANK
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: appdx9.sub
 Target Version: 3.50
 Processing Host: qmidhp01

Concentration Formula: Amt * DF * Vt*Sf/Ws * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	1000.00000	Volume of final extract (uL) (1000 low, 2
Sf	1.00000	Prep Split Factor
Ws	30.00000	Weight of sample extracted (g)

Cpnd Variable

Local Compound Variable

Compounds	QUANT SIG	MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN (ng/uL)	FINAL (ug/Kg)
* 1 1,4-Dichlorobenzene-d4	152	4.301	4.301	(1.000)	51393	20.0000	20.0	
* 2 Naphthalene-d8	136	5.888	5.888	(1.000)	202378	20.0000	20.0	
* 3 Acenaphthene-d10	164	8.485	8.485	(1.000)	122969	20.0000	20.0	
* 4 Phenanthrene-d10	188	9.895	9.895	(1.000)	234541	20.0000	20.0	
* 5 Chrysene-d12	240	11.928	11.922	(1.000)	257596	20.0000	20.0	
* 6 Perylene-d12	264	13.861	13.855	(1.000)	230089	20.0000	20.0	
92 m-cresol	108	4.754	4.754	(1.105)	190035	65.2546	2180	
104 m-dinitrobenzene	168	8.203	8.203	(0.967)	79823	78.1459	2600(R)	
108 2,3,4,6-tetrachlorophenol	232	8.872	8.872	(1.046)	112992	64.1277	2140	
110 diphenylamine	169	9.213	9.207	(0.931)	419299	60.9132	2030	

Data File: /var/chem/gcms/md.i/D072611I.b/icvdg25.d
 Report Date: 27-Jul-2011 09:26

TestAmerica Knoxville

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: md.i	Calibration Date: 26-JUL-2011
Lab File ID: icvdg25.d	Calibration Time: 15:34
Lab Smp Id: ICVDG25	Client Smp ID: 2ND SOURCE
Analysis Type: SV	Level: LOW
Quant Type: ISTD	Sample Type: SOIL
Operator: 60841	
Method File: /var/chem/gcms/md.i/D072611I.b/8270a9.m	
Misc Info: D072511I,8270a9,8270dxnC13.sub	

COMPOUND =====	STANDARD =====	AREA LIMIT		SAMPLE =====	%DIFF =====
		LOWER =====	UPPER =====		
1 1,4-Dichlorobenze	44644	22322	89288	51393	15.12
2 Naphthalene-d8	172857	86428	345714	202378	17.08
3 Acenaphthene-d10	101300	50650	202600	122969	21.39
4 Phenanthrene-d10	197263	98632	394526	234541	18.90
5 Chrysene-d12	205125	102562	410250	257596	25.58
6 Perylene-d12	176143	88072	352286	230089	30.63

COMPOUND =====	STANDARD =====	RT LIMIT		SAMPLE =====	%DIFF =====
		LOWER =====	UPPER =====		
1 1,4-Dichlorobenze	4.30	3.80	4.80	4.30	0.00
2 Naphthalene-d8	5.89	5.39	6.39	5.89	0.00
3 Acenaphthene-d10	8.48	7.98	8.98	8.48	0.00
4 Phenanthrene-d10	9.89	9.39	10.39	9.89	0.00
5 Chrysene-d12	11.92	11.42	12.42	11.93	0.05
6 Perylene-d12	13.85	13.35	14.35	13.86	0.09

AREA UPPER LIMIT = +100% of internal standard area.
 AREA LOWER LIMIT = - 50% of internal standard area.
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /var/chem/gcms/md.i/D072611I.b/icvdg25.d
 Report Date: 27-Jul-2011 09:26

TestAmerica Knoxville

RECOVERY REPORT

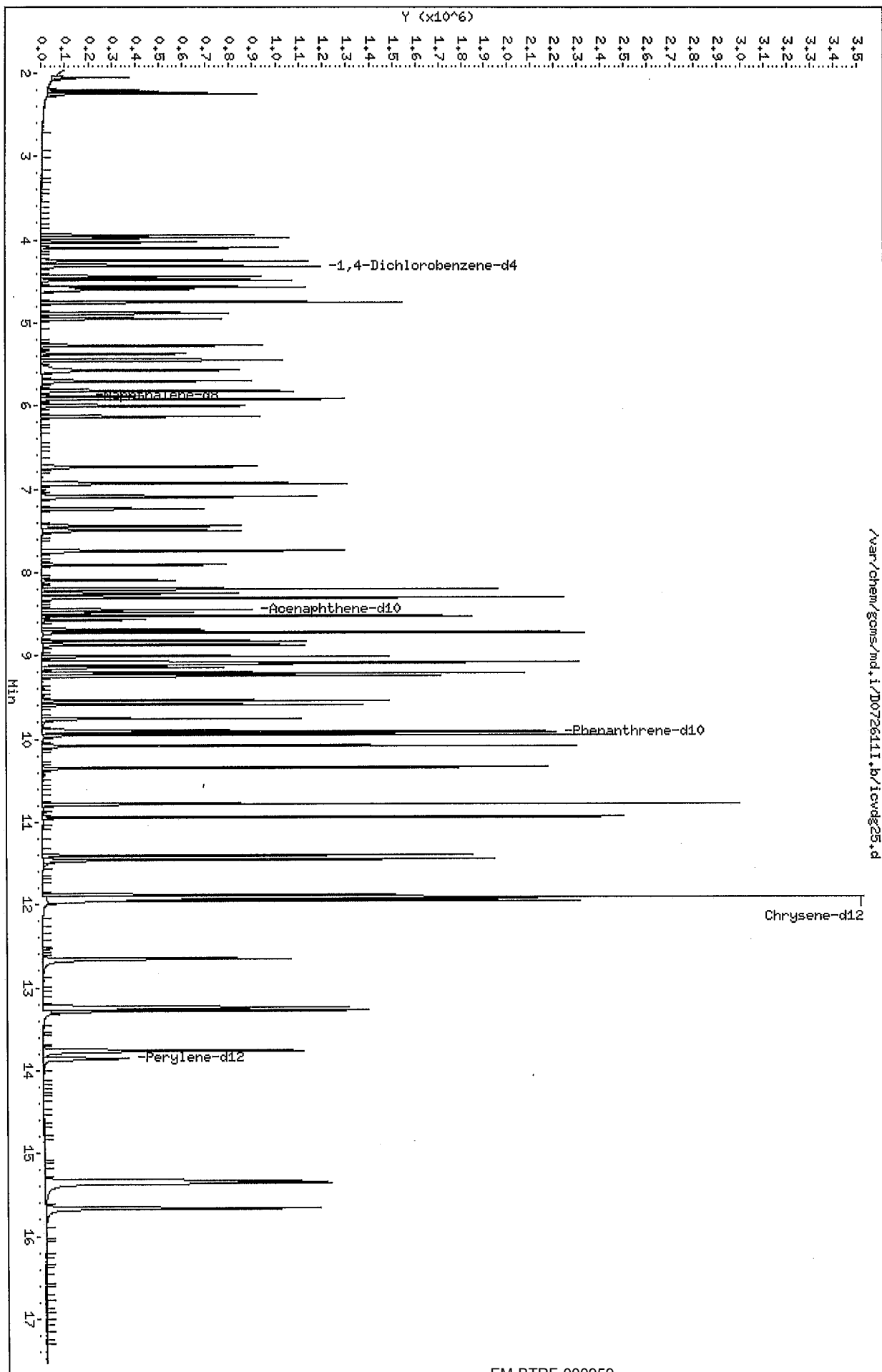
Client Name: Client SDG: D072511I
 Sample Matrix: SOLID Fraction: SV
 Lab Smp Id: ICVDG25 Client Smp ID: 2ND SOURCE
 Level: LOW Operator: 60841
 Data Type: MS DATA SampleType: BLANK
 SpikeList File: a9lcs.spk Quant Type: ISTD
 Sublist File: appdx9.sub
 Method File: /var/chem/gcms/md.i/D072611I.b/8270a9.m
 Misc Info: D072511I,8270a9,8270dxnC13.sub

SPIKE COMPOUND	CONC ADDED ug/Kg	CONC RECOVERED ug/Kg	% RECOVERED	LIMITS
86 N-nitrosomethylet	2000	0.00	*	70-130
87 Methyl methanosul	2000	0.00	*	70-130
88 N-nitrosodiethyla	2000	0.00	*	70-130
89 Ethyl methanosulf	2000	0.00	*	70-130
90 Pentachloroethane	2000	0.00	*	70-130
91 acetophenone	2000	0.00	*	70-130
92 m-cresol	2000	2180	108.76	70-130
93 n-nitrosopyrrolid	2000	0.00	*	70-130
94 n-nitrosomorpholi	2000	0.00	*	70-130
95 o-toluidine	2000	0.00	*	70-130
96 n-nitrosopiperidi	2000	0.00	*	70-130
97 2,6-dichlorophenol	2000	0.00	*	70-130
98 hexachloropropene	2000	0.00	*	70-130
99 N-nitro-di-n-buty	2000	0.00	*	70-130
100 Isosafrole	2000	0.00	*	70-130
101 1,2,4,5-tetrachlo	2000	0.00	*	70-130
102 safrole	2000	0.00	*	70-130
103 1-chloronaphthale	2000	0.00	*	70-130
104 m-dinitrobenzene	2000	2600	130.24	70-130
105 pentachlorobenzene	2000	0.00	*	70-130
106 1-naphthylamine	2000	0.00	*	70-130
107 2-naphthylamine	2000	0.00	*	70-130
108 2,3,4,6-tetrachlor	2000	2140	106.88	70-130
109 5-nitro-o-toluidi	2000	0.00	*	70-130
110 diphenylamine	2000	2030	101.52	70-130
111 1,3,5-trinitroben	2000	0.00	*	70-130
112 phenacetin	2000	0.00	*	70-130
113 4-aminobiphenyl	2000	0.00	*	70-130
114 pentachloronitrob	2000	0.00	*	70-130
115 Dinoseb	2000	0.00	*	70-130
84 Benzidine	2000	0.00	*	70-130
116 p-(dimethylamino)	2000	0.00	*	70-130
118 2-acetylaminofluo	2000	0.00	*	70-130

ok.

Data File: /var/chem/gcms/md.i/D072611.b/icvdg25.d
Date : 25-JUL-2011 15:44
Client ID: 2ND SOURCE
Sample Info: ICVDG25,,3,,2ND SOURCE
Volume Injected (uL): 1.0
Column phase: Rxi-5 Sil MS

Instrument: md.i
Operator: 60841
Column diameter: 0.25



Data File: /chem/gcms/md.i/D072611I.b/a9dg261.d
Report Date: 10-Aug-2011 15:50

TestAmerica Knoxville

RECOVERY REPORT

Client Name: Client SDG: D072611I
Sample Matrix: SOLID Fraction: SV
Lab Smp Id: A9DG261 Client Smp ID: STD010
Level: LOW Operator: 60841
Data Type: MS DATA SampleType: BLANK
SpikeList File: a9readback.spk Quant Type: ISTD
Sublist File: appdx9.sub
Method File: /var/chem/gcms/md.i/D072611I.b/8270a9.m
Misc Info: D072611I, 8270a9, appdx9.sub

*RL Readback
for linear fits.*

SPIKE COMPOUND	CONC ADDED ug/Kg	CONC RECOVERED ug/Kg	% RECOVERED	LIMITS
86 N-nitrosomethyleth	333	328	98.25	70-130
87 Methyl methanosulf	333	325	97.50	70-130
88 N-nitrosodiethylam	333	319	95.81	70-130
89 Ethyl methanosulfo	333	324	97.27	70-130
90 Pentachloroethane	333	317	95.24	70-130
91 acetophenone	333	321	96.24	70-130
92 m-cresol	333	316	94.85	70-130
93 n-nitrosopyrrolidi	333	308	92.50	70-130
94 n-nitrosomorpholin	333	339	101.58	70-130
95 o-toluidine	333	336	100.74	70-130
96 n-nitrosopiperidin	333	318	95.44	70-130
97 2,6-dichlorophenol	333	292	87.52	70-130
98 hexachloropropene	333	292	87.55	70-130
99 N-nitro-di-n-butyl	333	314	94.25	70-130
100 Isosafrole	333	314	94.17	70-130
101 1,2,4,5-tetrachlor	333	333	99.80	70-130
102 safrole	333	320	96.17	70-130
103 1-chloronaphthalen	333	333	100.02	70-130
104 m-dinitrobenzene	333	370	110.98	70-130
105 pentachlorobenzene	333	334	100.27	70-130
106 1-naphthylamine	333	314	94.28	70-130
107 2-naphthylamine	333	350	104.94	70-130
108 2,3,4,6-tetrachlor	333	412	123.76	70-130 ✓
109 5-nitro-o-toluidin	333	243	72.82	70-130
110 diphenylamine	333	312	93.71	70-130
111 1,3,5-trinitrobenz	333	445	133.58*	70-130 MA
112 phenacetin	333	371	111.22	70-130 ✓
113 4-aminobiphenyl	333	309	92.81	70-130
114 pentachloronitrobe	333	299	89.80	70-130
115 Dinoseb	333	454	136.27*	70-130 QUAD
84 Benzidine	333	248	74.31	70-130
116 p-(dimethylamino)a	333	252	75.61	70-130
118 2-acetylaminofluor	333	399	119.63	70-130 ✓

KRM 8/10/11

Data File: /chem/gcms/md.i/D072611I.b/a9dg261.d
 Report Date: 10-Aug-2011 15:50

SPIKE COMPOUND	CONC ADDED ug/Kg	CONC RECOVERED ug/Kg	% RECOVERED	LIMITS	
117 o-tolidine	333	222	66.62*	70-130	NA (mg)
119 7,12-dimethylbenz (	333	380	113.95	70-130	✓
120 3-methylcholanthre	333	408	122.51	70-130	✓
176 2-Picoline	333	321	96.30	70-130	
177 Methapyrilene HCL	333	414	124.12	70-130	
178 N-Nitroquinoline-n	333	482	144.48*	70-130	MA

TestAmerica Knoxville Semivolatile GC/MS Continuing Calibration Review / Narrative Checklist
Method 8270C - KNOX-MS-0016, Rev 10 and Method TO-13A Mod - KNOX-MS-0017, Rev 4

Analysis Date:	7/27/11	CCAL Batch/ Scan Name:	D072711	Instrument:	MD	ICAL Batch/ Scan Name:	D072611J	Scanned <input type="checkbox"/>
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Review Items	N/A	Yes	No	If No, why is data reportable?	2nd <input type="checkbox"/>
1. Did DFTPP meet tune criteria?		✓			✓
2. Was DDT breakdown ≤20% & benzidine tailing ≤3 and PCP tailing ≤5?		✓			✓
3. Were all standards injected within 12 hr of DFTPP?		✓			✓
4. Was date/time of analysis verified between analysis header and logbook as correct?		✓			✓
5. Are the RFs for SPCCs ≥0.050? (8270C)		✓			✓
6. Do the RFs meet minimum criteria? (TO-13 A mod)		✓			✓
7. Is the %D or drift ≤20% for all CCCs? (8270C)		✓			✓
8. Is the %D or drift ≤30% for all target analytes? (TO-13A Mod)		✓			✓
9. Is the %D or drift ≤30% for all other compounds? [Up to 3 TCLs may have %D or drift ≤40%; any more and the calibration is INVALID; 3 add'l allowed for App IX and CLP 4.2].		✓		□ %D or drift > 30% for the following TCLs: _____	✓
10. Are the internal standard responses within limits? (50-200% of the mid-level ICAL standard)		✓			✓
11. Are the internal standard retention times within limits? (30 seconds of the mid-level ICAL standard)		✓			✓
12. Were all peaks identified automatically? <i>If not, list analytes:</i>		✓			✓
13. If manual integrations were performed, are they clearly identified, initialed, dated and reason given?	✓			Reasons: 1)Corrected split peak; 2)Unresolved peak; 3)tailing; 4)RT shift; 5)wrong peak selected; 6)other	NA
14. Have alternate hits/manual integrations been verified as correct and are correct RFs listed in CCAL summary?	✓				NA
15. Was the correct ICAL used for quantitation? (Verify date & time of ICAL is documented correctly on CCAL.)		✓			✓
16. Is the first IS documented correctly on the log?		✓			✓
17. Elution order checked on isomeric pairs/coeluters?		✓			✓
• 1,4-dichlorobenzene-d4 / 1,2-dichlorobenzene-d4		✓			✓
• aniline / bis(2-chloroethyl)ether		✓			✓
• 1,3-, 1,4-, 1,2-dichlorobenzene		✓			✓
• benzyl alcohol / 2-methylphenol / 4-methylphenol		✓			✓
• 2,4,6- and 2,4,5-trichlorophenol		✓			✓
• phenanthrene / anthracene		✓			✓
• fluoranthene / pyrene		✓			✓
• benzo(a)anthracene / chrysene		✓			✓
• bis(2-ethylhexyl)/di-n-octyl phthalate		✓			✓
• benzo(b)fluoranthene / benzo(k)fluoranthene		✓			✓
• indeno(1,2,3-cd)pyrene / benzo(g,h,i)perylene		✓			✓
• safrole/1-chloronaphthalene/2- chloronaphthalene		✓			✓
• 1-/2-naphthylamine		✓			✓
18. If criteria were not met, was a NCM generated, approved by supervisor, and copy included in folder?	✓			NCM #: _____	NA
19. Does the CCAL folder contain complete data in the following order? Data review checklist, tune pass/fail page, m/z list, tune chromatogram, Target CCAL summary, Quant report, chromatogram and manual integrations.		✓			✓

Analyst: KRM	Date: 7/27/11	2nd Level Reviewer: <i>[Signature]</i>	Date: 7/29/11
Comments:		Comments:	

Data File: /chem/gcms/md,i/D072711,b/dfdg27.d

Date : 27-JUL-2011 15:50

Client ID: Tune

Instrument: md,i

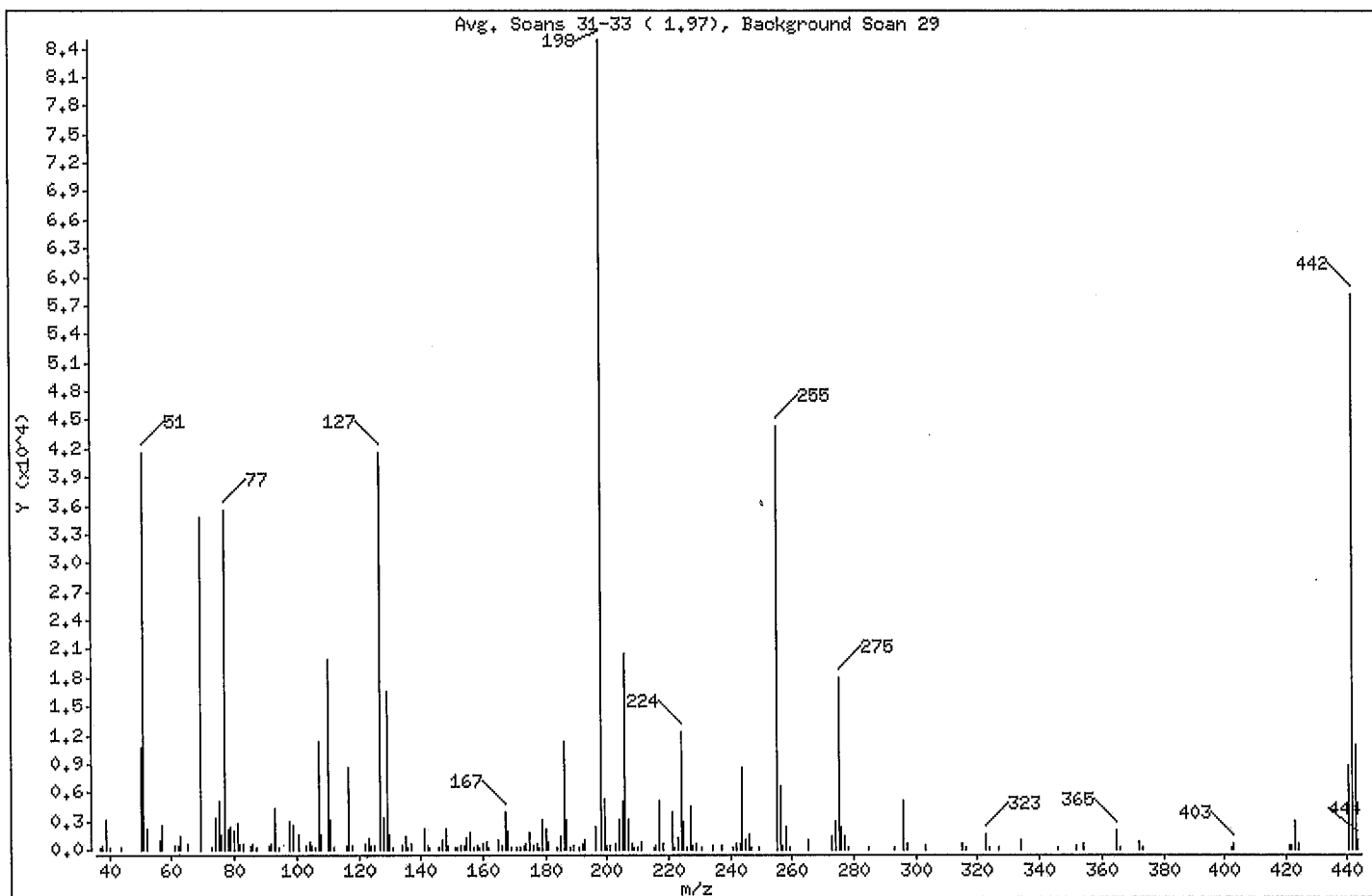
Sample Info: DFDG27,,3,,DFTPP,

Operator: 60841

Column phase: Rxi-5 Sil MS

Column diameter: 0.25

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	30.00 - 60.00% of mass 198	48.98
68	Less than 1.99% of mass 69	0.00 (0.00)
69	Present, but less than mass 198	40.91
70	Less than 1.99% of mass 69	0.00 (0.00)
127	40.00 - 60.00% of mass 198	48.87
197	Less than 0.99% of mass 198	0.00
199	5.00 - 9.00% of mass 198	6.21
275	10.00 - 30.00% of mass 198	21.23
365	1.01 - 100.00% of mass 198	2.41
441	Present, but less than mass 443	10.44
442	50.01 - 110.00% of mass 198	68.49
443	17.00 - 23.00% of mass 442	12.91 (18.84)

Data File: /chem/goms/md,i/D072711,b/dfdg27,d

Date : 27-JUL-2011 15:50

Client ID: Tune

Instrument: md,i

Sample Info: DFDG27,,3,,DFTPP,

Operator: 60841

Column phase: Rxi-5 Sil MS

Column diameter: 0.25

Data File: dfdg27,d

Spectrum: Avg. Scans 31-33 (1.97), Background Scan 29

Location of Maximum: 198.00

Number of points: 183

m/z	Y	m/z	Y	m/z	Y	m/z	Y

| 37.00	188	| 117.00	8575	| 178.00	199	| 244.00	8612
| 38.00	350	| 118.00	446	| 179.00	3091	| 245.00	1014
| 39.00	3140	| 122.00	506	| 180.00	2175	| 246.00	1573
| 40.00	223	| 123.00	1130	| 181.00	816	| 247.00	262
| 44.00	202	| 124.00	344	| 184.00	173	| 249.00	167

| 50.00	10759	| 125.00	441	| 185.00	1402	| 255.00	44368
| 51.00	41576	| 127.00	41488	| 186.00	11376	| 256.00	6564
| 52.00	2131	| 128.00	3395	| 187.00	3078	| 257.00	350
| 56.00	1061	| 129.00	16672	| 188.00	167	| 258.00	2346
| 57.00	2523	| 130.00	1608	| 189.00	450	| 259.00	227

| 61.00	346	| 131.00	224	| 191.00	220	| 265.00	986
| 62.00	309	| 134.00	328	| 192.00	653	| 273.00	1283
| 63.00	1308	| 135.00	1409	| 193.00	1017	| 274.00	2880
| 65.00	659	| 136.00	291	| 196.00	2255	| 275.00	18024
| 69.00	34736	| 137.00	532	| 198.00	84904	| 276.00	2292

| 73.00	211	| 141.00	2051	| 199.00	5272	| 277.00	1359
| 74.00	3326	| 142.00	475	| 200.00	399	| 278.00	188
| 75.00	5058	| 143.00	290	| 201.00	353	| 285.00	237
| 76.00	1542	| 146.00	269	| 203.00	524	| 293.00	209
| 77.00	35472	| 147.00	959	| 204.00	3086	| 296.00	5121

| 78.00	2155	| 148.00	2050	| 205.00	5113	| 297.00	606
| 79.00	2319	| 149.00	349	| 206.00	20536	| 303.00	400
| 80.00	1899	| 151.00	222	| 207.00	3178	| 315.00	543
| 81.00	2641	| 152.00	171	| 208.00	543	| 316.00	183
| 82.00	502	| 153.00	450	| 209.00	172	| 323.00	1588

| 83.00	526	| 154.00	395	| 210.00	257	| 324.00	189
| 85.00	353	| 155.00	1090	| 211.00	835	| 327.00	170
| 86.00	606	| 156.00	1777	| 215.00	232	| 334.00	1061
| 87.00	231	| 157.00	239	| 216.00	466	| 346.00	244
| 91.00	425	| 158.00	307	| 217.00	5016	| 352.00	317

| 92.00	492	| 159.00	206	| 218.00	526	| 354.00	561
| 93.00	4376	| 160.00	582	| 221.00	3853	| 365.00	2044
| 94.00	212	| 161.00	828	| 222.00	226	| 366.00	182
| 98.00	2974	| 162.00	182	| 223.00	1112	| 372.00	740
| 99.00	2585	| 165.00	1037	| 224.00	12383	| 373.00	167

Data File: /chem/gcms/md,i/D072711,b/dfdg27.d

Date : 27-JUL-2011 15:50

Client ID: Tune

Instrument: md,i

Sample Info: DFDG27,,3,,DFTPP,

Operator: 60841

Column phase: Rxi-5 Sil MS

Column diameter: 0.25

Data File: dfdg27.d

Spectrum: Avg. Scans 31-33 (1.97), Background Scan 29

Location of Maximum: 198.00

Number of points: 183

m/z	Y	m/z	Y	m/z	Y	m/z	Y
101.00	1599	166.00	312	225.00	2878	402.00	179
103.00	383	167.00	3992	226.00	260	403.00	556
104.00	689	168.00	1986	227.00	4394	421.00	436
105.00	487	169.00	274	228.00	448	422.00	454
106.00	234	171.00	179	229.00	678	423.00	2854
107.00	11359	172.00	188	231.00	274	424.00	670
108.00	1654	173.00	318	234.00	295	441.00	8863
110.00	19840	174.00	588	237.00	335	442.00	58152
111.00	3049	175.00	1845	241.00	224	443.00	10958
112.00	286	176.00	344	242.00	552	444.00	991
116.00	482	177.00	532	243.00	567		

Data File: /chem/goms/md,i/D072711,b/dfdg27.d

Date : 27-JUL-2011 15:50

Client ID: Tune

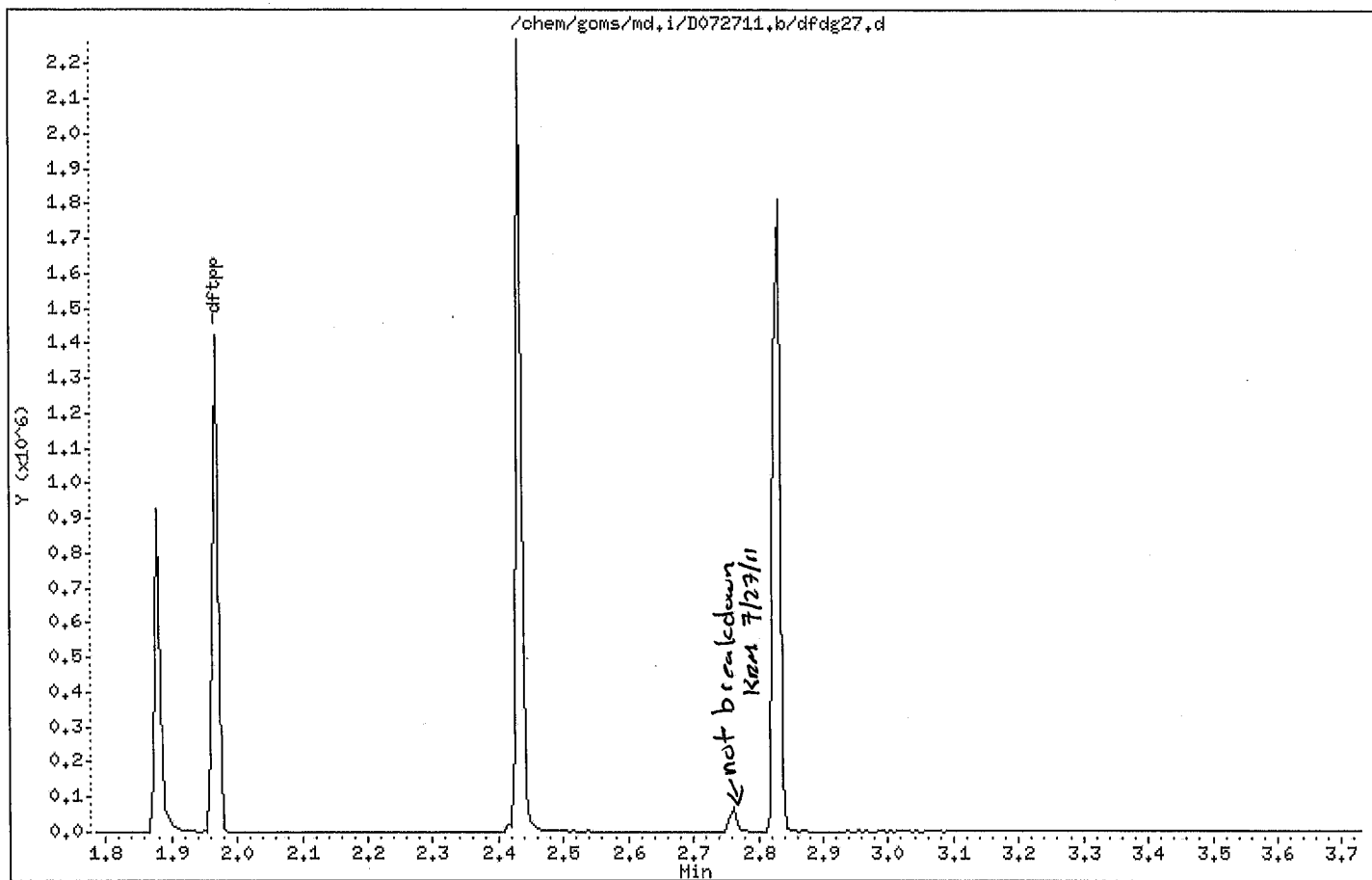
Instrument: md,i

Sample Info: DFDG27,,3,,DFTPP,

Operator: 60841

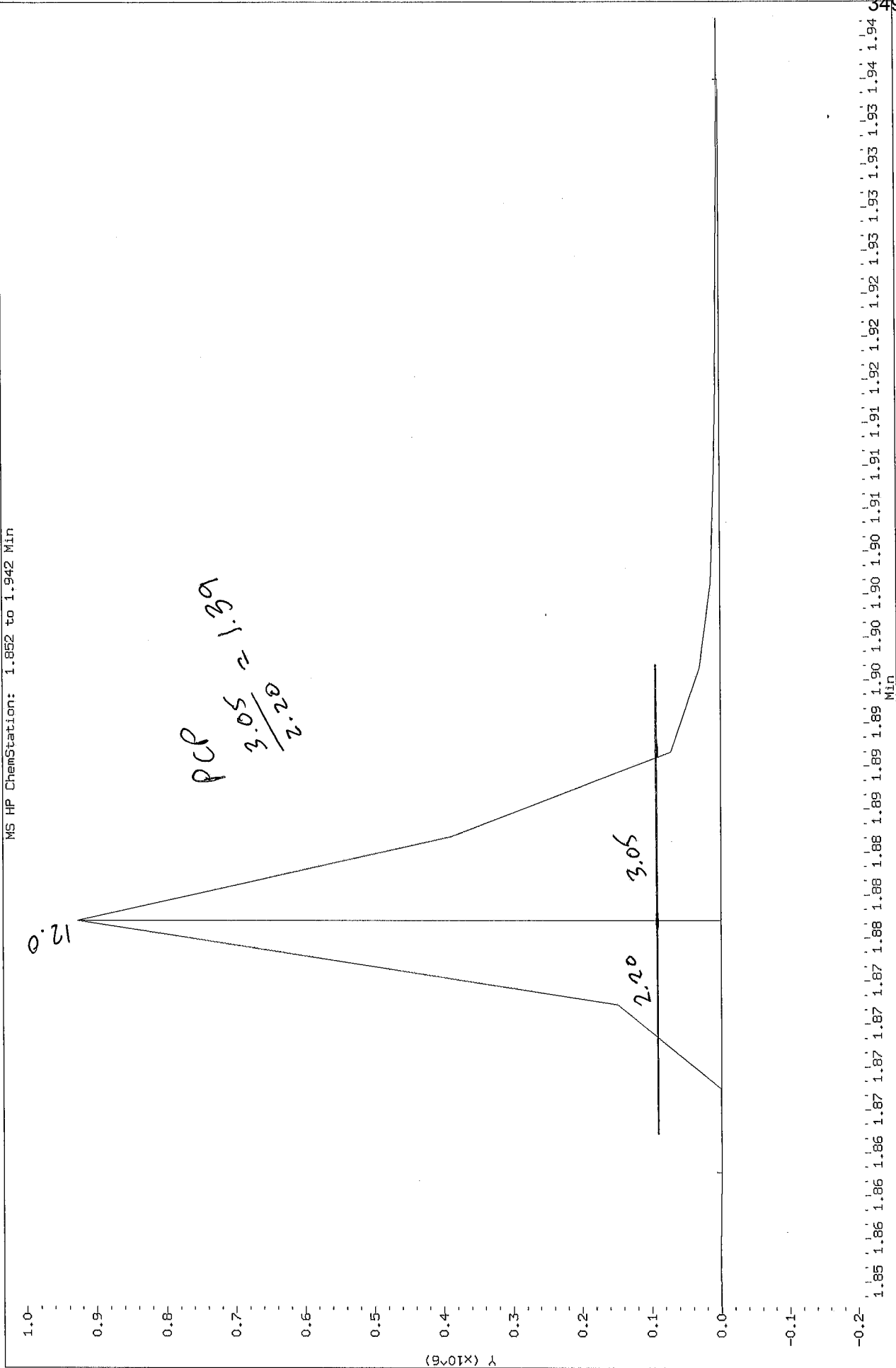
Column phase: Rxi-5 Sil MS

Column diameter: 0,25



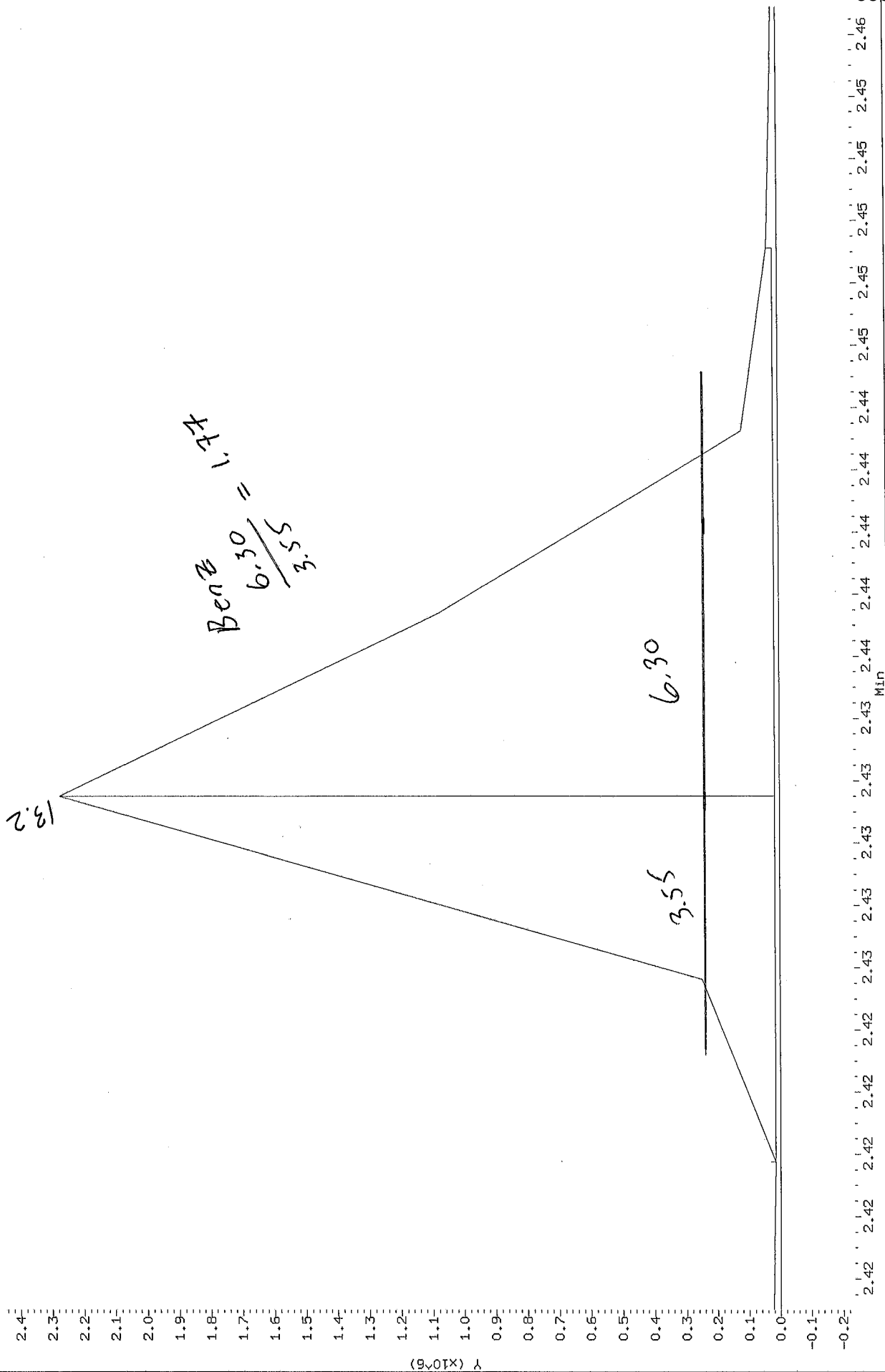
Data File: /var/chem/gcms/md.i/D072711.b/dfdg27.d
 Injection Date: 27-JUL-2011 15:50
 Instrument: md.i
 Client Sample ID: Tune

MS HP ChemStation: 1.852 to 1.942 Min



Data File: /var/chem/gcms/md.i/D072711.b/d8dg27.d
Injection Date: 27-JUL-2011 15:50
Instrument: md.i
Client Sample ID: Tune

MS HP ChemStation: 2.415 to 2.457 Min



Data File: /chem/gcms/md.i/D072711.b/ccdg274.d

Report Date: 27-Jul-2011 16:20

TestAmerica Knoxville

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: md.i Injection Date: 27-JUL-2011 16:02
 Lab File ID: ccdg274.d Init. Cal. Date(s): 25-JUL-2011 26-JUL-2011
 Analysis Type: SOIL Init. Cal. Times: 12:21 17:42
 Lab Sample ID: CCDG274 Quant Type: ISTD /
 Method: /chem/gcms/md.i/D072711.b/8270a9.m

COMPOUND	RRF / AMOUNT	RF60	CCAL RRF60	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
7 2-Fluorophenol	1.10417	1.21266	1.21266	0.000	-9.82561	30.00000	Averaged
8 Phenol-d5	1.32392	1.45448	1.45448	0.000	-9.86113	30.00000	Averaged
9 Nitrobenzene-d5	0.31871	0.32930	0.32930	0.000	-3.32403	30.00000	Averaged
10 2-Fluorobiphenyl	1.25112	1.26743	1.26743	0.000	-1.30429	30.00000	Averaged
11 2,4,6-Tribromophenol	0.08007	0.08427	0.08427	0.000	-5.24498	30.00000	Averaged
12 Terphenyl-d14	0.75982	0.76182	0.76182	0.000	-0.26344	30.00000	Averaged
179 13C6-naphthalene	1.08685	1.04210	1.04210	0.000	4.11748	30.00000	Averaged
175 1,4-Dioxane	0.42953	0.43039	0.43039	0.000	-0.19946	30.00000	Averaged
13 N-Nitrosodimethylamine	0.62419	0.68481	0.68481	0.000	-9.71278	30.00000	Averaged
14 Pyridine	1.08883	1.21660	1.21660	0.000	-11.73453	30.00000	Averaged
15 Phenol (ccc)	1.36159	1.48807	1.48807	0.800	-9.28901	20.00000	Averaged
16 Aniline	1.68746	1.81744	1.81744	0.000	-7.70308	30.00000	Averaged
17 Bis(2-chloroethyl)ether	1.02217	1.09703	1.09703	0.700	-7.32355	30.00000	Averaged
18 2-Chlorophenol	1.22509	1.34785	1.34785	0.800	-10.02042	30.00000	Averaged
19 1,3-Dichlorobenzene	1.39019	1.48269	1.48269	0.000	-6.65420	30.00000	Averaged
20 1,4-Dichlorobenzene (ccc)	1.42020	1.48122	1.48122	0.000	-4.29643	20.00000	Averaged
21 Benzyl alcohol	0.80411	0.87655	0.87655	0.000	-9.00924	30.00000	Averaged
22 1,2-Dichlorobenzene	1.36699	1.42450	1.42450	0.000	-4.20715	30.00000	Averaged
23 2-Methylphenol	1.07590	1.18030	1.18030	0.700	-9.70310	30.00000	Averaged
24 2,2'-Oxybis(1-Chloropropane	1.95048	2.11372	2.11372	0.010	-8.36892	30.00000	Averaged
25 4-Methylphenol	1.10939	1.23294	1.23294	0.600	-11.13752	30.00000	Averaged
26 3&4 Methylphenol	1.10939	1.23294	1.23294	0.600	-11.13752	30.00000	Averaged
27 N-Nitroso-di-n-propylamine#	0.81631	0.88889	0.88889	0.500	-8.89085	30.00000	Averaged
28 Hexachloroethane	0.53310	0.56045	0.56045	0.300	-5.13018	30.00000	Averaged
29 Nitrobenzene	0.31224	0.32229	0.32229	0.200	-3.22067	30.00000	Averaged
30 Isophorone	0.51349	0.54714	0.54714	0.400	-6.55359	30.00000	Averaged
31 2-Nitrophenol (ccc)	0.15871	0.17421	0.17421	0.100	-9.77143	20.00000	Averaged
32 2,4-Dimethylphenol	0.33554	0.35239	0.35239	0.200	-5.02182	30.00000	Averaged
33 Bis(2-chloroethoxy)methane	0.33677	0.35185	0.35185	0.300	-4.47614	30.00000	Averaged
34 Benzoic acid	61.35015	60.00000	0.15188	0.000	-2.25024	30.00000	Quadratic
35 2,4-Dichlorophenol (ccc)	0.27272	0.28827	0.28827	0.200	-5.70252	20.00000	Averaged
36 1,2,4-Trichlorobenzene	0.31318	0.31827	0.31827	0.000	-1.62552	30.00000	Averaged
37 Naphthalene	0.95835	0.97678	0.97678	0.700	-1.92281	30.00000	Averaged
38 4-Chloroaniline	0.39823	0.41934	0.41934	0.010	-5.29978	30.00000	Averaged
39 Hexachlorobutadiene (ccc)	0.19689	0.19467	0.19467	0.010	1.12471	20.00000	Averaged

Data File: /chem/gcms/md.i/D072711.b/ccdg274.d

Report Date: 27-Jul-2011 16:20

TestAmerica Knoxville

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: md.i Injection Date: 27-JUL-2011 16:02
 Lab File ID: ccdg274.d Init. Cal. Date(s): 25-JUL-2011 26-JUL-2011
 Analysis Type: SOIL Init. Cal. Times: 12:21 17:42
 Lab Sample ID: CCDG274 Quant Type: ISTD
 Method: /chem/gcms/md.i/D072711.b/8270a9.m

COMPOUND	RRF / AMOUNT	RF60	CCAL RRF60	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
40 4-Chloro-3-methylphenol (cc	0.26166	0.28208	0.28208	0.200	-7.80181	20.00000	Averaged
41 2-Methylnaphthalene	0.64823	0.67264	0.67264	0.400	-3.76588	30.00000	Averaged
42 Hexachlorocyclopentadiene##	0.31114	0.32145	0.32145	0.050	-3.31515	30.00000	Averaged
43 2,4,6-Trichlorophenol (ccc)	0.32021	0.34353	0.34353	0.200	-7.28388	20.00000	Averaged
44 2,4,5-Trichlorophenol	0.36035	0.38451	0.38451	0.200	-6.70674	30.00000	Averaged
45 2-Chloronaphthalene	1.06797	1.09274	1.09274	0.800	-2.32004	20.00000	Averaged
46 2-Nitroaniline	61.91357	60.00000	0.33056	0.010	-3.18928	30.00000	Linear
47 Acenaphthylene	1.70598	1.79010	1.79010	1.300	-4.93081	30.00000	Averaged
48 Dimethyl phthalate	1.32054	1.30790	1.30790	0.010	0.95700	30.00000	Averaged
49 2,6-Dinitrotoluene	0.27720	0.30349	0.30349	0.200	-9.48294	30.00000	Averaged
50 3-Nitroaniline	0.31963	0.34694	0.34694	0.010	-8.54449	30.00000	Averaged
51 Acenaphthene (ccc)	1.12880	1.15755	1.15755	0.900	-2.54641	20.00000	Averaged
52 2,4-Dinitrophenol ##spcc##	56.29163	60.00000	0.15643	0.050	6.18062	30.00000	Quadratic
53 Dibenzofuran	1.57316	1.59161	1.59161	0.800	-1.17295	30.00000	Averaged
54 4-Nitrophenol ##spcc##	0.17245	0.18283	0.18283	0.050	-6.01512	30.00000	Averaged
55 2,4-Dinitrotoluene	0.36278	0.40266	0.40266	0.200	-10.99220	30.00000	Averaged
56 Fluorene	1.30247	1.33977	1.33977	0.900	-2.86363	30.00000	Averaged
57 4-Chlorophenyl phenyl ether	0.62959	0.64423	0.64423	0.400	-2.32626	30.00000	Averaged
58 Diethyl phthalate	56.92199	60.00000	1.31182	0.010	5.13001	30.00000	Linear
59 4-Nitroaniline	0.33364	0.36184	0.36184	0.010	-8.45458	30.00000	Averaged
60 4,6-Dinitro-2-methylphenol	55.51025	60.00000	0.11428	0.010	7.48292	30.00000	Linear
61 N-Ndpa / diphenylamine (ccc	0.57601	0.59323	0.59323	0.010	-2.98886	20.00000	Averaged
62 1,2-Diphenylhydrazine/azobn	0.59563	0.60606	0.60606	0.000	-1.75202	30.00000	Averaged
63 4-Bromophenyl phenyl ether	0.18588	0.19070	0.19070	0.010	-2.59079	30.00000	Averaged
64 Hexachlorobenzene	0.19836	0.20073	0.20073	0.100	-1.19289	30.00000	Averaged
65 Pentachlorophenol (ccc)	59.21909	60.00000	0.14500	0.050	1.30151	20.00000	Linear
66 Phenanthrene	1.07144	1.06565	1.06565	0.700	0.53978	30.00000	Averaged
67 Anthracene	1.03950	1.09118	1.09118	0.700	-4.97177	30.00000	Averaged
68 Carbazole	0.94870	0.99078	0.99078	0.010	-4.43571	30.00000	Averaged
69 Di-n-butyl phthalate	1.04310	1.15444	1.15444	0.010	-10.67424	20.00000	Averaged
70 Fluoranthene (ccc)	1.10421	1.22158	1.22158	0.600	-10.62950	20.00000	Averaged
71 Pyrene	1.13263	1.17312	1.17312	0.600	-3.57474	30.00000	Averaged
72 Butyl benzyl phthalate	59.28894	60.00000	0.49183	0.010	1.18511	30.00000	Linear
73 Benzo(a)Anthracene	0.99170	1.05662	1.05662	0.800	-6.54600	30.00000	Averaged
74 3,3'-Dichlorobenzidine	0.36945	0.39431	0.39431	0.010	-6.72776	30.00000	Averaged

Data File: /chem/gcms/md.i/D072711.b/ccdg274.d

Report Date: 27-Jul-2011 16:20

TestAmerica Knoxville

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: md.i Injection Date: 27-JUL-2011 16:02
 Lab File ID: ccdg274.d Init. Cal. Date(s): 25-JUL-2011 26-JUL-2011
 Analysis Type: SOIL Init. Cal. Times: 12:21 17:42
 Lab Sample ID: CCDG274 Quant Type: ISTD
 Method: /chem/gcms/md.i/D072711.b/8270a9.m

COMPOUND	RRF / AMOUNT	RF60	CCAL RRF60	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
75 Chrysene	1.05787	1.05341	1.05341	0.700	0.42193	30.00000	Averaged
76 Bis(2-ethylhexyl) phthalate	60.04059	60.00000	0.67251	0.010	-0.06765	30.00000	Linear
77 Di-n-octyl phthalate (ccc)	62.06116	60.00000	1.20256	0.010	-3.43527	20.00000	Quadratic
78 Benzo(b)fluoranthene	1.00346	1.10473	1.10473	0.700	-10.09217	30.00000	Averaged
79 Benzo(k)fluoranthene	1.20923	1.28396	1.28396	0.700	-6.18038	30.00000	Averaged
80 Benzo(a)pyrene (ccc)	61.04077	60.00000	1.10654	0.700	-1.73461	20.00000	Linear
81 Indeno(1,2,3-cd)pyrene	1.09627	1.19435	1.19435	0.500	-8.94677	30.00000	Averaged
82 Dibenzo(a,h)anthracene	0.89684	0.97607	0.97607	0.400	-8.83372	30.00000	Averaged
83 Benzo(g,h,i)perylene	0.96717	1.03351	1.03351	0.500	-6.85916	30.00000	Averaged

Data File: /chem/gcms/md.i/D072711.b/ccdg274.d

Report Date: 27-Jul-2011 16:20

TestAmerica Knoxville

Semivolatile Organic Compounds by GC/MS

Data file : /chem/gcms/md.i/D072711.b/ccdg274.d
 Lab Smp Id: CCDG274 Client Smp ID: STD060
 Inj Date : 27-JUL-2011 16:02
 Operator : 60841 Inst ID: md.i
 Smp Info : CCDG274,,2,4,,STD060,
 Misc Info : D072711,8270a9,8270dxnC13.sub
 Comment : Semivolatile Organic Compounds by GC/MS
 Method : /chem/gcms/md.i/D072711.b/8270a9.m
 Meth Date : 27-Jul-2011 16:20 chemist Quant Type: ISTD
 Cal Date : 26-JUL-2011 17:42 Cal File: a9dg267.d
 Als bottle: 1 Continuing Calibration Sample
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: 8270dxnC13.sub
 Target Version: 3.50
 Processing Host: qmidhp01

Concentration Formula: Amt * DF * Vt*Sf/Ws * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	1000.00000	Volume of final extract (uL) (1000 low, 2
Sf	1.00000	Prep Split Factor
Ws	30.00000	Weight of sample extracted (g)

Cpnd Variable

Local Compound Variable

Compounds	QUANT SIG	MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
							CAL-AMT (ng/uL)	ON-COL (ng/uL)
* 1 1,4-Dichlorobenzene-d4	=====	152	4.301	4.301	(1.000)	44395'	20.0000	20.0
* 2 Naphthalene-d8	=====	136	5.887	5.887	(1.000)	182374'	20.0000	20.0
* 3 Acenaphthene-d10	=====	164	8.484	8.484	(1.000)	111075'	20.0000	20.0
* 4 Phenanthrene-d10	=====	188	9.895	9.895	(1.000)	217977'	20.0000	20.0
* 5 Chrysene-d12	=====	240	11.928	11.928	(1.000)	247793'	20.0000	20.0
* 6 Perylene-d12	=====	264	13.855	13.855	(1.000)	221015'	20.0000	20.0
\$ 7 2-Fluorophenol	=====	112	3.126	3.126	(0.727)	161508	60.0000	65.9
\$ 8 Phenol-d5	=====	99	3.931	3.931	(0.914)	193715	60.0000	65.9
\$ 9 Nitrobenzene-d5	=====	82	4.930	4.930	(0.837)	180168	60.0000	62.0
\$ 10 2-Fluorobiphenyl	=====	172	7.591	7.591	(0.895)	422341	60.0000	60.8
\$ 11 2,4,6-Tribromophenol	=====	330	9.307	9.307	(0.941)	55106	60.0000	63.1
\$ 12 Terphenyl-d14	=====	244	11.046	11.046	(0.926)	566320	60.0000	60.2
\$ 179 13C6-naphthalene	=====	134	5.917	5.917	(1.005)	570157	60.0000	57.5
175 1,4-Dioxane	=====	88	2.051	2.051	(0.477)	57321	60.0000	60.1

Data File: /chem/gcms/md.i/D072711.b/ccdg274.d

Report Date: 27-Jul-2011 16:20

Compounds	QUANT SIG					AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ng/uL)	ON-COL (ng/uL)
=====	=====	==	=====	=====	=====	=====	=====
13 N-Nitrosodimethylamine	74	2.203	2.203	(0.512)	91206	60.0000	65.8
14 Pyridine	79	2.245	2.245	(0.522)	162032	60.0000	67.0
15 Phenol (ccc)	94	3.949	3.949	(0.918)	198188	60.0000	65.6
16 Aniline	93	3.972	3.972	(0.923)	242056	60.0000	64.6
17 Bis(2-chloroethyl)ether	93	4.031	4.031	(0.937)	146108	60.0000	64.4
18 2-Chlorophenol	128	4.095	4.095	(0.952)	179513	60.0000	66.0
19 1,3-Dichlorobenzene	146	4.248	4.248	(0.988)	197472	60.0000	64.0
20 1,4-Dichlorobenzene (ccc)	146	4.319	4.319	(1.004)	197276	60.0000	62.6
21 Benzyl alcohol	108	4.436	4.436	(1.031)	116743	60.0000	65.4
22 1,2-Dichlorobenzene	146	4.483	4.483	(1.042)	189722	60.0000	62.5
23 2-Methylphenol	108	4.565	4.565	(1.061)	157198	60.0000	65.8
24 2,2'-Oxybis(1-Chloropropane)	45	4.595	4.595	(1.068)	281516	60.0000	65.0
25 4-Methylphenol	108	4.753	4.753	(1.105)	164209	60.0000	66.7
26 3&4 Methylphenol	108	4.753	4.753	(1.105)	164209	60.0000	66.7
27 N-Nitroso-di-n-propylamine###	70	4.748	4.748	(1.104)	118386	60.0000	65.3
28 Hexachloroethane	117	4.883	4.883	(1.135)	74643	60.0000	63.1
29 Nitrobenzene	77	4.953	4.953	(0.841)	176334	60.0000	61.9
30 Isophorone	82	5.271	5.271	(0.895)	299352	60.0000	63.9
31 2-Nitrophenol (ccc)	139	5.370	5.370	(0.912)	95316	60.0000	65.9
32 2,4-Dimethylphenol	107	5.447	5.447	(0.925)	192800	60.0000	63.0
33 Bis(2-chloroethoxy)methane	93	5.570	5.570	(0.946)	192503	60.0000	62.7
34 Benzoic acid	122	5.582	5.582	(0.948)	83096	60.0000	61.4
35 2,4-Dichlorophenol (ccc)	162	5.705	5.705	(0.969)	157721	60.0000	63.4
36 1,2,4-Trichlorobenzene	180	5.823	5.823	(0.989)	174134	60.0000	61.0
37 Naphthalene	128	5.923	5.923	(1.006)	534419	60.0000	61.2
38 4-Chloroaniline	127	5.999	5.999	(1.019)	229430	60.0000	63.2
39 Hexachlorobutadiene (ccc)	225	6.128	6.128	(1.041)	106511	60.0000	59.3
40 4-Chloro-3-methylphenol (ccc)	107	6.734	6.734	(1.144)	154331	60.0000	64.7
41 2-Methylnaphthalene	142	6.933	6.933	(1.178)	368016	60.0000	62.2
42 Hexachlorocyclopentadiene####	237	7.239	7.239	(0.853)	107116	60.0000	62.0
43 2,4,6-Trichlorophenol (ccc)	196	7.444	7.444	(0.877)	114474	60.0000	64.4
44 2,4,5-Trichlorophenol	196	7.497	7.497	(0.884)	128129	60.0000	64.0
45 2-Chloronaphthalene	162	7.744	7.744	(0.913)	364130	60.0000	61.4
46 2-Nitroaniline	65	7.909	7.909	(0.932)	110151	60.0000	61.9
47 Acenaphthylene	152	8.308	8.308	(0.979)	596506	60.0000	63.0
48 Dimethyl phthalate	163	8.202	8.202	(0.967)	435825	60.0000	59.4
49 2,6-Dinitrotoluene	165	8.249	8.249	(0.972)	101130	60.0000	65.7
50 3-Nitroaniline	138	8.449	8.449	(0.996)	115608	60.0000	65.1
51 Acenaphthene (ccc)	153	8.520	8.520	(1.004)	385724	60.0000	61.5
52 2,4-Dinitrophenol ##spcc##	184	8.573	8.573	(1.010)	52125	60.0000	56.3
53 Dibenzofuran	168	8.719	8.719	(1.028)	530364	60.0000	60.7
54 4-Nitrophenol ##spcc##	109	8.684	8.684	(1.024)	60922	60.0000	63.6
55 2,4-Dinitrotoluene	165	8.725	8.725	(1.028)	134176	60.0000	66.6
56 Fluorene	166	9.078	9.078	(1.070)	446444	60.0000	61.7
57 4-Chlorophenyl phenyl ether	204	9.096	9.096	(1.072)	214674	60.0000	61.4
58 Diethyl phthalate	149	9.007	9.007	(1.062)	437130	60.0000	56.9
59 4-Nitroaniline	138	9.107	9.107	(1.073)	120575	60.0000	65.1

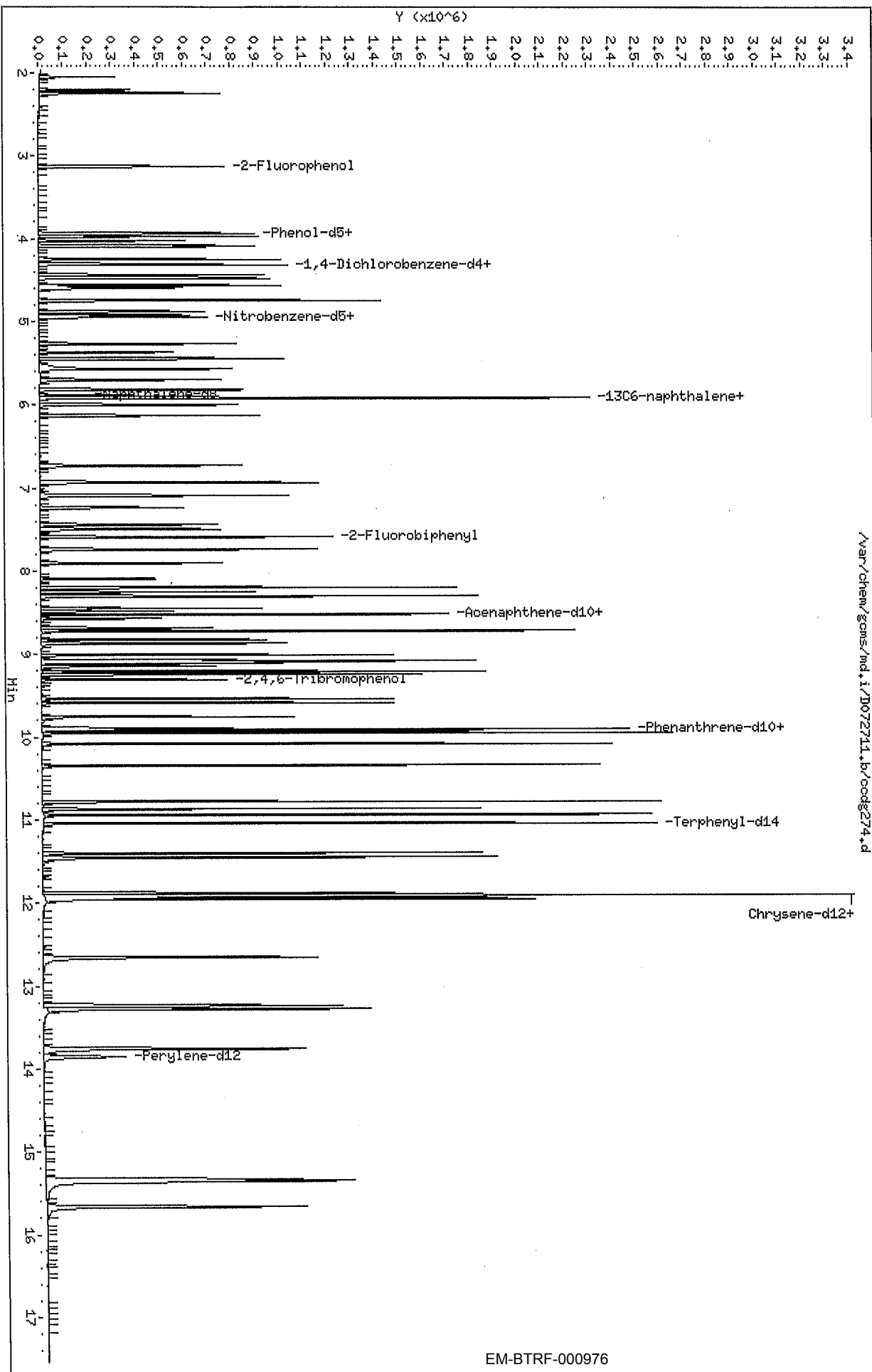
Data File: /chem/gcms/md.i/D072711.b/ccdg274.d

Report Date: 27-Jul-2011 16:20

Compounds	QUANT SIG					AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ng/uL)	ON-COL (ng/uL)
=====	=====	==	=====	=====	=====	=====	=====
60 4,6-Dinitro-2-methylphenol	198	9.143	9.143	(0.924)	74731	60.0000	55.5
61 N-Ndpa / diphenylamine (ccc)	169	9.207	9.207	(0.931)	387929	60.0000	61.8
62 1,2-Diphenylhydrazine/azobnz	77	9.242	9.242	(0.934)	396322	60.0000	61.0
63 4-Bromophenyl phenyl ether	248	9.536	9.536	(0.964)	124702	60.0000	61.6
64 Hexachlorobenzene	284	9.589	9.589	(0.969)	131264	60.0000	60.7
65 Pentachlorophenol (ccc)	266	9.759	9.759	(0.986)	94819	60.0000	59.2
66 Phenanthrene	178	9.912	9.912	(1.002)	696863	60.0000	59.7
67 Anthracene	178	9.953	9.953	(1.006)	713557	60.0000	63.0
68 Carbazole	167	10.083	10.083	(1.019)	647903	60.0000	62.7
69 Di-n-butyl phthalate	149	10.347	10.347	(1.046)	754927	60.0000	66.4
70 Fluoranthene (ccc)	202	10.788	10.788	(1.090)	798829	60.0000	66.4
71 Pyrene	202	10.940	10.940	(0.917)	872073	60.0000	62.1
72 Butyl benzyl phthalate	149	11.405	11.405	(0.956)	365616	60.0000	59.3
73 Benzo(a)Anthracene	228	11.916	11.916	(0.999)	785468	60.0000	63.9
74 3,3'-Dichlorobenzidine	252	11.881	11.881	(0.996)	293119	60.0000	64.0
75 Chrysene	228	11.957	11.957	(1.002)	783085	60.0000	59.7
76 Bis(2-ethylhexyl) phthalate	149	11.910	11.910	(0.999)	499933	60.0000	60.0
77 Di-n-octyl phthalate (ccc)	149	12.656	12.656	(0.913)	797351	60.0000	62.1
78 Benzo(b)fluoranthene	252	13.238	13.238	(0.955)	732488	60.0000	66.0
79 Benzo(k)fluoranthene	252	13.279	13.279	(0.958)	851324	60.0000	63.7
80 Benzo(a)pyrene (ccc)	252	13.761	13.761	(0.993)	733685	60.0000	61.0
81 Indeno(1,2,3-cd)pyrene	276	15.330	15.330	(1.106)	791910	60.0000	65.4
82 Dibenz(a,h)anthracene	278	15.353	15.353	(1.108)	647177	60.0000	65.3
83 Benzo(g,h,i)perylene	276	15.664	15.664	(1.131)	685265	60.0000	64.1

Data File: /var/chem/gcms/md.i/D072711.b/codg274.d
 Date: 27-JUL-2011 16:02
 Client ID: STD060
 Sample Info: CODG274,,2,4,,STD060,
 Volume Injected (uL): 1.0
 Column phase: Rxi-5 Sil MS

Instrument: md.i
 Operator: 60841
 Column diameter: 0.25



Data File: /chem/gcms/md.i/D072711.b/a9dg274.d

Report Date: 27-Jul-2011 16:46

TestAmerica Knoxville

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: md.i Injection Date: 27-JUL-2011 16:27
 Lab File ID: a9dg274.d Init. Cal. Date(s): 25-JUL-2011 26-JUL-2011
 Analysis Type: SOIL Init. Cal. Times: 12:21 17:42
 Lab Sample ID: A9DG274 Quant Type: ISTD
 Method: /chem/gcms/md.i/D072711.b/8270a9.m

COMPOUND	RRF / AMOUNT	RF60	CCAL RRF60	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
176 2-Picoline	1.16178	1.22200	1.22200	0.000	-5.18347	30.00000	Averaged
86 N-nitrosomethylethylamine	0.86337	0.87575	0.87575	0.000	-1.43402	30.00000	Averaged
87 Methyl methanosulfonate	0.71583	0.72879	0.72879	0.000	-1.80972	30.00000	Averaged
88 N-nitrosodiethylamine	0.55145	0.56140	0.56140	0.000	-1.80558	30.00000	Averaged
89 Ethyl methanosulfonate	0.85569	0.88237	0.88237	0.000	-3.11769	30.00000	Averaged
90 Pentachloroethane	0.51429	0.51385	0.51385	0.000	0.08569	30.00000	Averaged
91 acetophenone	1.70427	1.76371	1.76371	0.010	-3.48805	30.00000	Averaged
92 m-cresol	1.13331	1.22384	1.22384	0.000	-7.98810	30.00000	Averaged
93 n-nitrosopyrrolidine	0.60147	0.65069	0.65069	0.000	-8.18210	30.00000	Averaged
94 n-nitrosomorpholine	0.95347	0.99762	0.99762	0.000	-4.63082	30.00000	Averaged
95 o-toluidine	1.84002	1.95849	1.95849	0.000	-6.43846	30.00000	Averaged
96 n-nitrosopiperidine	0.28001	0.29405	0.29405	0.000	-5.01137	30.00000	Averaged
97 2,6-dichlorophenol	0.26564	0.28912	0.28912	0.000	-8.83969	30.00000	Averaged
98 hexachloropropene	0.20993	0.20954	0.20954	0.000	0.18526	30.00000	Averaged
99 N-nitro-di-n-butylamine	0.18447	0.19833	0.19833	0.000	-7.50883	30.00000	Averaged
100 Isosafrole	0.24515	0.25791	0.25791	0.000	-5.20575	30.00000	Averaged
101 1,2,4,5-tetrachlorobenzene	0.33103	0.32912	0.32912	0.010	0.57868	30.00000	Averaged
102 safrole	0.40214	0.42868	0.42868	0.000	-6.60004	30.00000	Averaged
103 1-chloronaphthalene	1.05649	1.06487	1.06487	0.000	-0.79362	30.00000	Averaged
104 m-dinitrobenzene	63.84975	60.00000	0.17344	0.000	-6.41626	30.00000	Linear
105 pentachlorobenzene	0.49253	0.49084	0.49084	0.000	0.34247	30.00000	Averaged
106 1-naphthylamine	1.09432	1.27220	1.27220	0.000	-16.25465	30.00000	Averaged
107 2-naphthylamine	1.11711	1.27540	1.27540	0.000	-14.17021	30.00000	Averaged
108 2,3,4,6-tetrachlorophenol	63.38822	60.00000	0.30230	0.010	-5.64703	30.00000	Linear
109 5-nitro-o-toluidine	0.33288	0.39433	0.39433	0.000	-18.46024	30.00000	Averaged
110 diphenylamine	0.58698	0.60462	0.60462	0.000	-3.00528	30.00000	Averaged
111 1,3,5-trinitrobenzene	61.15004	60.00000	0.26295	0.000	-1.91673	30.00000	Linear
112 phenacetin	62.21201	60.00000	0.33035	0.000	-3.68668	30.00000	Linear
113 4-aminobiphenyl	0.72184	0.68331	0.68331	0.000	5.33768	30.00000	Averaged
114 pentachloronitrobenzene	0.08285	0.08515	0.08515	0.000	-2.77617	30.00000	Averaged
115 Dinoseb	61.39260	60.00000	0.12425	0.000	-2.32101	30.00000	Quadratic
178 N-Nitroquinoline-n-oxide	0.02531	0.04185	0.04185	0.000	-65.32230	30.00000	Averaged
177 Methapyrilene HCL	0.18611	0.36022	0.36022	0.000	-93.55106	30.00000	Averaged
84 Benzidine	0.70029	0.83585	0.83585	0.000	-19.35786	30.00000	Averaged
116 p-(dimethylamino)azobenzene	0.30408	0.34169	0.34169	0.000	-12.36875	30.00000	Averaged

Data File: /chem/gcms/md.i/D072711.b/a9dg274.d

Report Date: 27-Jul-2011 16:46

TestAmerica Knoxville

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: md.i Injection Date: 27-JUL-2011 16:27
 Lab File ID: a9dg274.d Init. Cal. Date(s): 25-JUL-2011 26-JUL-2011
 Analysis Type: SOIL Init. Cal. Times: 12:21 17:42
 Lab Sample ID: A9DG274 Quant Type: ISTD
 Method: /chem/gcms/md.i/D072711.b/8270a9.m

COMPOUND	RRF / AMOUNT	RF60	CCAL RRF60	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
=====	=====	=====	=====	=====	=====	=====	=====
117 o-tolidine	0.67608	0.84006	0.84006	0.000	-24.25381	30.00000	Averaged
119 7,12-dimethylbenz(a)anthrac	59.94869	60.00000	0.48963	0.000	0.08552	30.00000	Linear
118 2-acetylaminofluorene	60.06934	60.00000	0.45303	0.000	-0.11556	30.00000	Linear
120 3-methylcholanthrene	59.10939	60.00000	0.56681	0.000	1.48435	30.00000	Linear

Data File: /chem/gcms/md.i/D072711.b/a9dg274.d

Report Date: 27-Jul-2011 16:46

TestAmerica Knoxville

Semivolatile Organic Compounds by GC/MS

Data file : /chem/gcms/md.i/D072711.b/a9dg274.d
 Lab Smp Id: A9DG274 Client Smp ID: STD060
 Inj Date : 27-JUL-2011 16:27
 Operator : 60841 Inst ID: md.i
 Smp Info : A9DG274,,2,4,,STD060,
 Misc Info : D072711,8270a9,appdx9.sub
 Comment : Semivolatile Organic Compounds by GC/MS
 Method : /chem/gcms/md.i/D072711.b/8270a9.m
 Meth Date : 27-Jul-2011 16:46 chemist Quant Type: ISTD
 Cal Date : 26-JUL-2011 17:42 Cal File: a9dg267.d
 Als bottle: 1 Continuing Calibration Sample
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: appdx9.sub
 Target Version: 3.50
 Processing Host: qmidhp01

Concentration Formula: Amt * DF * Vt*Sf/Ws * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	1000.00000	Volume of final extract (uL) (1000 low, 2
Sf	1.00000	Prep Split Factor
Ws	30.00000	Weight of sample extracted (g)

Cpnd Variable

Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
						CAL-AMT (ng/uL)	ON-COL (ng/uL)
* 1 1,4-Dichlorobenzene-d4	152	4.301	4.301	(1.000)	44716✓	20.0000	20.0
* 2 Naphthalene-d8	136	5.887	5.887	(1.000)	175672✓	20.0000	20.0
* 3 Acenaphthene-d10	164	8.484	8.484	(1.000)	104573✓	20.0000	20.0
* 4 Phenanthrene-d10	188	9.895	9.895	(1.000)	213730✓	20.0000	20.0
* 5 Chrysene-d12	240	11.922	11.922	(1.000)	236531✓	20.0000	20.0
* 6 Perylene-d12	264	13.855	13.855	(1.000)	207527✓	20.0000	20.0
176 2-Picoline	93	2.703	2.703	(0.628)	163930	60.0000	63.1
86 N-nitrosomethylethylamine	42	2.762	2.762	(0.642)	117481	60.0000	60.9
87 Methyl methanosulfonate	80	2.979	2.979	(0.693)	97766	60.0000	61.1
88 N-nitrosodiethylamine	102	3.302	3.302	(0.768)	75311	60.0000	61.1
89 Ethyl methanosulfonate	79	3.549	3.549	(0.825)	118368	60.0000	61.9
90 Pentachloroethane	167	4.025	4.025	(0.936)	68932	60.0000	59.9
91 acetophenone	105	4.736	4.736	(1.101)	236600	60.0000	62.1
92 m-cresol	108	4.753	4.753	(1.105)	164177	60.0000	64.8

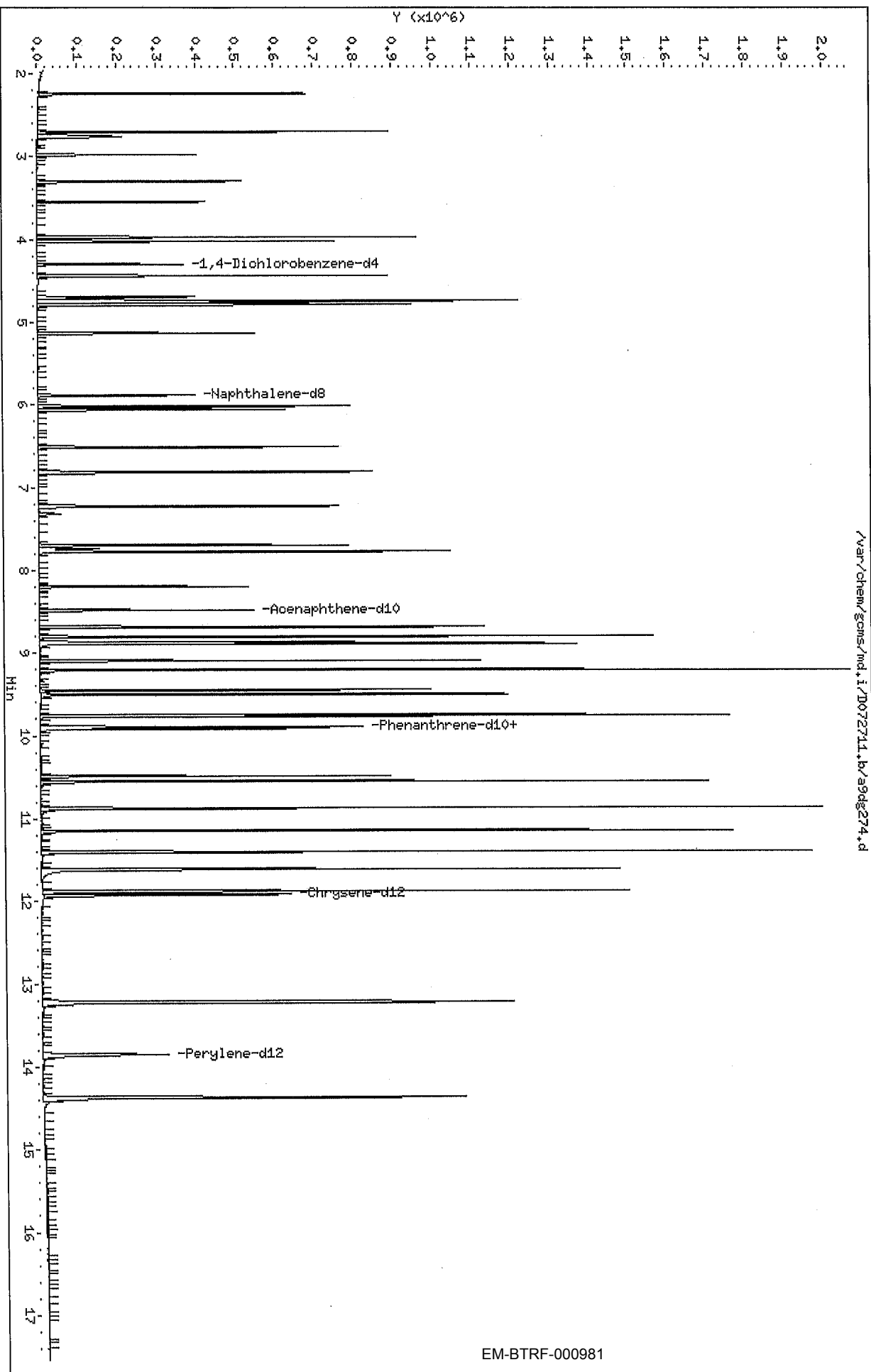
Data File: /chem/gcms/md.i/D072711.b/a9dg274.d

Report Date: 27-Jul-2011 16:46

Compounds	QUANT SIG					AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ng/uL)	ON-COL (ng/uL)
=====	=====	==	=====	=====	=====	=====	=====
93 n-nitrosopyrrolidine	100	4.695	4.695	(1.092)	87289	60.0000	64.9
94 n-nitrosomorpholine	56	4.742	4.742	(1.102)	133830	60.0000	62.8
95 o-toluidine	106	4.783	4.783	(1.112)	262730	60.0000	63.9
96 n-nitrosopiperidine	42	5.135	5.135	(0.872)	154967	60.0000	63.0
97 2,6-dichlorophenol	162	6.017	6.017	(1.022)	152370	60.0000	65.3
98 hexachloropropene	213	6.064	6.064	(1.030)	110429	60.0000	59.9
99 N-nitro-di-n-butylamine	84	6.516	6.516	(1.107)	104520	60.0000	64.5
100 Isosafrole	162	6.816	6.816	(1.158)	135921	60.0000	63.1
101 1,2,4,5-tetrachlorobenzene	216	7.233	7.233	(1.229)	173449	60.0000	59.6
102 safrole	162	7.697	7.697	(0.907)	134485	60.0000	64.0
103 1-chloronaphthalene	162	7.773	7.773	(0.916)	334071	60.0000	60.5
104 m-dinitrobenzene	168	8.196	8.196	(0.966)	54410	60.0000	63.8
105 pentachlorobenzene	250	8.684	8.684	(1.024)	153985	60.0000	59.8
106 1-naphthylamine	143	8.802	8.802	(1.037)	399114	60.0000	69.8
107 2-naphthylamine	143	8.890	8.890	(1.048)	400119	60.0000	68.5
108 2,3,4,6-tetrachlorophenol	232	8.872	8.872	(1.046)	94837	60.0000	63.4
109 5-nitro-o-toluidine	152	9.095	9.095	(1.072)	123708	60.0000	71.1
110 diphenylamine	169	9.207	9.207	(0.931)	387678	60.0000	61.8
111 1,3,5-trinitrobenzene	75	9.448	9.448	(0.955)	168602	60.0000	61.2
112 phenacetin	108	9.507	9.507	(0.961)	211815	60.0000	62.2
113 4-aminobiphenyl	169	9.754	9.754	(0.986)	438135	60.0000	56.8
114 pentachloronitrobenzene	237	9.771	9.771	(0.988)	54598	60.0000	61.7
115 Dinoseb	211	9.912	9.912	(1.002)	79668	60.0000	61.4
178 N-Nitroquinoline-n-oxide	174	10.488	10.488	(1.060)	26832	60.0000	99.2
177 Methapyrilene HCL	97	10.547	10.547	(1.066)	230972	60.0000	116
84 Benzidine	184	10.870	10.870	(1.099)	535942	60.0000	71.6
116 p-(dimethylamino)azobenzene	120	11.146	11.146	(1.126)	219090	60.0000	67.4
117 o-tolidine	212	11.399	11.399	(1.152)	538641	60.0000	74.6
119 7,12-dimethylbenz(a)anthracen	256	13.226	13.226	(1.109)	347440	60.0000	59.9
118 2-acetylaminofluorene	181	11.616	11.616	(0.974)	321465	60.0000	60.1
120 3-methylcholanthrene	268	14.372	14.372	(1.037)	352887	60.0000	59.1

Data File: /var/chem/gcms/md.i/D072711.b/s9d8274.d
Date: 27-JUL-2011 16:27
Client ID: STD060
Sample Info: A9D8274,,2,4,,STD060,
Volume Injected (uL): 1.0
Column phase: Rxi-5 Sil MS

Instrument: md.i
Operator: 60841
Column diameter: 0.25



EM-BTRF-000981

Data File: /chem/gcms/md.i/D072711.b/xcdg274.d

Report Date: 27-Jul-2011 17:14

TestAmerica Knoxville

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: md.i Injection Date: 27-JUL-2011 16:53
 Lab File ID: xcdg274.d Init. Cal. Date(s): 25-JUL-2011 26-JUL-2011
 Analysis Type: SOIL Init. Cal. Times: 12:21 17:42
 Lab Sample ID: XCDG274 Quant Type: ISTD
 Method: /chem/gcms/md.i/D072711.b/8270a9.m

COMPOUND	RRF / AMOUNT	RF60	CCAL RRF60	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
184 Benzaldehyde	0.94577	0.99085	0.99085	0.000	-4.76621	30.00000	Averaged
187 Atrazine	58.46877	60.00000	0.19053	0.000	2.55204	30.00000	Linear
188 1,1'-Biphenyl	1.58477	1.48875	1.48875	0.000	6.05894	30.00000	Averaged
189 Caprolactam	60.06633	60.00000	0.17306	0.000	-0.11055	30.00000	Linear
199 Phentermine	64.18207	60.00000	0.87981	0.000	-6.97011	30.00000	Quadratic
202 1,4-Phenylenediamine	63.14529	60.00000	0.43589	0.000	-5.24215	30.00000	Linear
197 1-methylnaphthalene	0.60485	0.62226	0.62226	0.000	-2.87765	30.00000	Averaged
192 2,6-Dimethylnaphthalene	0.96284	1.01734	1.01734	0.000	-5.66047	30.00000	Averaged
193 2,3,5-Trimethylnaphthalene	0.45061	0.46726	0.46726	0.000	-3.69391	30.00000	Averaged
194 Dibenzothiopene	0.86415	0.88634	0.88634	0.000	-2.56881	30.00000	Averaged
195 1-Methylphenanthrene	0.66659	0.72175	0.72175	0.000	-8.27557	30.00000	Averaged
200 3,3'-Dimethoxybenzidine	62.47922	60.00000	0.24702	0.000	-4.13203	30.00000	Quadratic
85 Benzo(e)pyrene	1.00431	1.05084	1.05084	0.700	-4.63271	30.00000	Averaged
196 Perylene	1.01083	1.08729	1.08729	0.000	-7.56375	30.00000	Averaged
201 Dibenzo(a,e)pyrene	54.35789	60.00000	0.72419	0.000	9.40351	30.00000	Wt Linear

Data File: /chem/gcms/md.i/D072711.b/xcdg274.d

Report Date: 27-Jul-2011 17:14

TestAmerica Knoxville

Semivolatile Organic Compounds by GC/MS

Data file : /chem/gcms/md.i/D072711.b/xcdg274.d
 Lab Smp Id: XCDG274 Client Smp ID: STD060
 Inj Date : 27-JUL-2011 16:53
 Operator : 60841 Inst ID: md.i
 Smp Info : XCDG274,,2,4,,STD060,
 Misc Info : D072711,8270a9,allextra.sub
 Comment : Semivolatile Organic Compounds by GC/MS
 Method : /chem/gcms/md.i/D072711.b/8270a9.m
 Meth Date : 27-Jul-2011 17:14 chemist Quant Type: ISTD
 Cal Date : 26-JUL-2011 17:42 Cal File: a9dg267.d
 Als bottle: 1 Continuing Calibration Sample
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: allextra.sub
 Target Version: 3.50
 Processing Host: qmidhp01

Concentration Formula: Amt * DF * Vt*Sf/Ws * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	1000.00000	Volume of final extract (uL) (1000 low, 2
Sf	1.00000	Prep Split Factor
Ws	30.00000	Weight of sample extracted (g)

Cpnd Variable

Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
						CAL-AMT (ng/uL)	ON-COL (ng/uL)
* 1 1,4-Dichlorobenzene-d4	152	4.301	4.301	(1.000)	45457	20.0000	20.0
* 2 Naphthalene-d8	136	5.888	5.888	(1.000)	189375	20.0000	20.0
* 3 Acenaphthene-d10	164	8.485	8.485	(1.000)	112475	20.0000	20.0
* 4 Phenanthrene-d10	188	9.895	9.895	(1.000)	228544	20.0000	20.0
* 5 Chrysene-d12	240	11.922	11.922	(1.000)	243447	20.0000	20.0
* 6 Perylene-d12	264	13.855	13.855	(1.000)	218653	20.0000	20.0
184 Benzaldehyde	105	3.872	3.872	(0.900)	135122	60.0000	62.8
187 Atrazine	200	9.695	9.695	(0.980)	130630	60.0000	58.5
188 1,1'-Biphenyl	154	7.732	7.732	(0.911)	502341	60.0000	56.4
189 Caprolactam	55	6.452	6.452	(1.096)	98317	60.0000	60.1
199 Phentermine	58	5.658	5.658	(0.961)	499844	60.0000	64.2
202 1,4-Phenylenediamine	108	6.499	6.499	(1.104)	247643	60.0000	63.1
197 1-methylnaphthalene	142	7.092	7.092	(1.205)	353522	60.0000	61.7
192 2,6-Dimethylnaphthalene	156	7.962	7.962	(0.938)	343275	60.0000	63.4

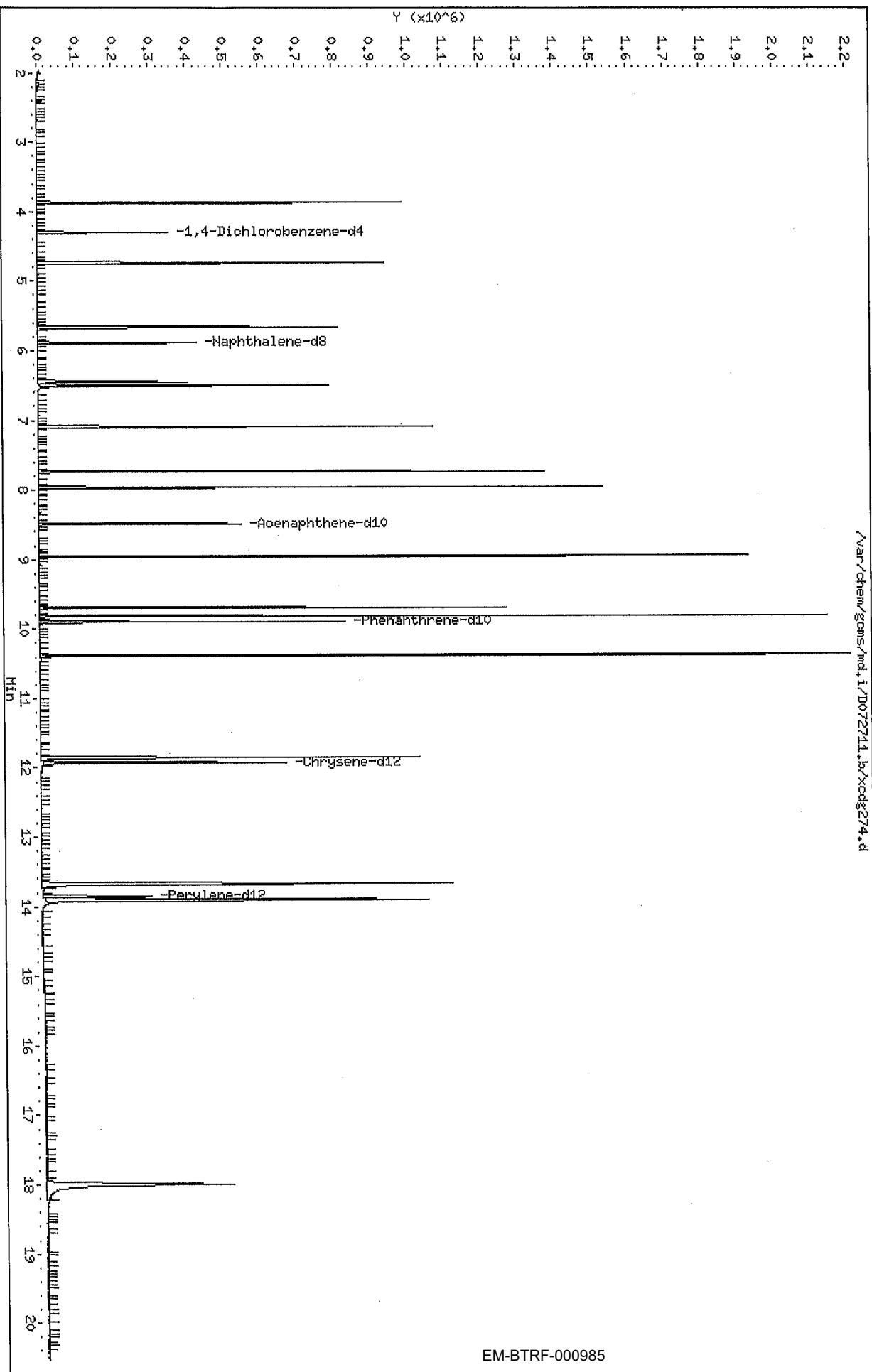
Data File: /chem/gcms/md.i/D072711.b/xcdg274.d

Report Date: 27-Jul-2011 17:14

Compounds	QUANT SIG					AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ng/uL)	ON-COL (ng/uL)
=====	=====	==	=====	=====	=====	=====	=====
193 2,3,5-Trimethylnaphthalene	170	8.955	8.955	(0.905)	320366	60.0000	62.2
194 Dibenzothiophene	184	9.812	9.812	(0.992)	607706	60.0000	61.5
195 1-Methylphenanthrene	192	10.376	10.376	(1.049)	494856	60.0000	65.0
200 3,3'-Dimethoxybenzidine	244	11.851	11.851	(0.994)	180411	60.0000	62.5
85 Benzo(e)pyrene	252	13.673	13.673	(0.987)	689308	60.0000	62.8
196 Perylene	252	13.908	13.908	(1.004)	713218	60.0000	64.5
201 Dibenzo(a,e)pyrene	302	17.997	17.997	(1.299)	475042	60.0000	54.4

Data File: /var/chem/gcms/md.i/D072711.b/xcdg274.d
Date: 27-JUL-2011 16:53
Client ID: STD060
Sample Info: XCDG274,,2,4,,STD060,
Volume Injected (uL): 1.0
Column phase: Rxi-5 Sil MS

Instrument: md.i
Operator: 60841
Column diameter: 0.25



Raw QC Data

METHOD BLANK REPORT

GC/MS Semivolatiles

Client Lot #...: H1G190403
 MB Lot-Sample #: H1G200000-076

Work Order #...: MK2DQ1AA

Matrix.....: AIR

Analysis Date...: 07/27/11
 Dilution Factor: 2

Prep Date.....: 07/20/11

Prep Batch #...: 1201076

PARAMETER	RESULT	REPORTING		METHOD
		LIMIT	UNITS	
Acenaphthene	ND	20	ug	SW846 8270C
Acenaphthylene	ND	20	ug	SW846 8270C
Aniline	ND	20	ug	SW846 8270C
Anthracene	ND	20	ug	SW846 8270C
Benz (a) anthracene	ND	20	ug	SW846 8270C
Benzidine	ND	200	ug	SW846 8270C
Benzo (b) fluoranthene	ND	20	ug	SW846 8270C
Benzo (k) fluoranthene	ND	20	ug	SW846 8270C
Benzo (ghi) perylene	ND	20	ug	SW846 8270C
Benzo (a) pyrene	ND	20	ug	SW846 8270C
Benzo (e) pyrene	ND	20	ug	SW846 8270C
Biphenyl	ND	20	ug	SW846 8270C
Chrysene	ND	20	ug	SW846 8270C
Cresols (total)	ND	20	ug	SW846 8270C
Dibenz (a,h) anthracene	ND	20	ug	SW846 8270C
Dibenzofuran	ND	20	ug	SW846 8270C
Dibenzo (a,e) pyrene	ND	20	ug	SW846 8270C
3,3'-Dimethoxybenzidine	ND	200	ug	SW846 8270C
p-Dimethylaminoazobenzene	ND	20	ug	SW846 8270C
7,12-Dimethylbenz (a) - anthracene	ND	20	ug	SW846 8270C
3,3'-Dimethylbenzidine	ND	200	ug	SW846 8270C
alpha, alpha-Dimethylphene	ND	50	ug	SW846 8270C
2,4-Dimethylphenol	ND	20	ug	SW846 8270C
Fluoranthene	ND	20	ug	SW846 8270C
Fluorene	ND	20	ug	SW846 8270C
Indeno (1,2,3-cd) pyrene	ND	20	ug	SW846 8270C
Isophorone	ND	20	ug	SW846 8270C
3-Methylcholanthrene	ND	20	ug	SW846 8270C
2-Methylnaphthalene	ND	20	ug	SW846 8270C
Naphthalene	ND	20	ug	SW846 8270C
Nitrobenzene	ND	20	ug	SW846 8270C
Perylene	ND	20	ug	SW846 8270C
Phenanthrene	ND	20	ug	SW846 8270C
Phenol	ND	20	ug	SW846 8270C
1,4-Phenylenediamine	ND	200	ug	SW846 8270C
Pyrene	ND	20	ug	SW846 8270C
o-Toluidine	ND	20	ug	SW846 8270C

(Continued on next page)

METHOD BLANK REPORT

GC/MS Semivolatiles

Client Lot #...: H1G190403

Work Order #...: MK2DQ1AA

Matrix.....: AIR

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	METHOD
SURROGATE	PERCENT	RECOVERY		
	RECOVERY	LIMITS		
2-Fluorophenol	63	(22 - 105)		
Phenol-d5	85	(48 - 118)		
Nitrobenzene-d5	85	(43 - 110)		
2-Fluorobiphenyl	86	(48 - 111)		
2,4,6-Tribromophenol	67	(34 - 125)		

NOTE (S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

Data File: /var/chem/gcms/md.i/D072711.b/mk2dq1aa.d
Report Date: 28-Jul-2011 10:47

TestAmerica Knoxville

Semivolatile Organic Compounds by GC/MS

Data file : /var/chem/gcms/md.i/D072711.b/mk2dq1aa.d
Lab Smp Id: MK2DQ1AA Client Smp ID: INTRA-LAB BLANK
Inj Date : 27-JUL-2011 20:12
Operator : 60841 Inst ID: md.i
Smp Info : MK2DQ1AA,,3,,BLK,
Misc Info : D072711,8270a9,ICR.sub
Comment : Semivolatile Organic Compounds by GC/MS
Method : /chem/gcms/md.i/D072711.b/8270a9.m
Meth Date : 27-Jul-2011 17:16 mcgeek Quant Type: ISTD
Cal Date : 26-JUL-2011 17:42 Cal File: a9dg267.d
Als bottle: 12 QC Sample: METHOD BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ICR.sub
Target Version: 3.50
Processing Host: qmidhp01

Concentration Formula: $\text{Amt} * \text{DF} * (\text{Vt} * \text{Sf}) / (\text{Vo} * \text{Uf}) * \text{CpndVariable}$

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	1000.00000	Volume of final extract (uL)
Sf	2.00000	Prep split factor
Vo	1.00000	Volume of sample extracted (1=total samp
Uf	1000.00000	unit correction factor

Cpnd Variable

Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ng/uL)	FINAL (ug)
* 1 1,4-Dichlorobenzene-d4	152	4.301	4.301	(1.000)	49639	20.0000	20.0
* 2 Naphthalene-d8	136	5.887	5.887	(1.000)	192104	20.0000	20.0
* 3 Acenaphthene-d10	164	8.484	8.484	(1.000)	113506	20.0000	20.0
* 4 Phenanthrene-d10	188	9.895	9.895	(1.000)	228933	20.0000	20.0
* 5 Chrysene-d12	240	11.922	11.928	(1.000)	254672	20.0000	20.0
* 6 Perylene-d12	264	13.849	13.855	(1.000)	243033	20.0000	20.0
\$ 7 2-Fluorophenol	112	3.126	3.126	(0.727)	129754	47.3464	94.7
\$ 8 Phenol-d5	99	3.931	3.931	(0.914)	209421	63.7322	127
\$ 9 Nitrobenzene-d5	82	4.924	4.930	(0.836)	130799	42.7272	85.4
\$ 11 2,4,6-Tribromophenol	330	9.307	9.307	(0.941)	46221	50.4313	101
\$ 10 2-Fluorobiphenyl	172	7.586	7.591	(0.894)	307253	43.2722	86.5
\$ 179 13C6-naphthalene	134	5.887	5.917	(1.000)	17739	1.69932	3.40(R)
199 Phentermine	58	5.805	5.658	(0.986)	329	5.93489	11.9

Data File: /var/chem/gcms/md.i/D072711.b/mk2dq1aa.d

Report Date: 28-Jul-2011 10:47

Compounds	QUANT SIG		CONCENTRATIONS				
	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ng/uL)	FINAL (ug)
=====	=====	==	=====	=====	=====	=====	=====
188 1,1'-Biphenyl	154	7.732	7.732	(0.911)	466	0.05189	0.104
196 Perylene	252	13.849	13.908	(1.000)	715	0.05828	0.116

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

KRM 7/28/11

Data File: /var/chem/gcms/md.i/D072711.b/mk2dq1aa.d

Report Date: 28-Jul-2011 10:47

TestAmerica Knoxville

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: md.i

Lab File ID: mk2dq1aa.d

Lab Smp Id: MK2DQ1AA

Analysis Type: SV

Quant Type: ISTD

Operator: 60841

Method File: /chem/gcms/md.i/D072711.b/8270a9.m

Misc Info: D072711,8270a9,ICR.sub

Calibration Date: 27-JUL-2011

Calibration Time: 16:02

Client Smp ID: INTRA-LAB BLANK

Level: LOW

Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
1 1,4-Dichlorobenze	44395	22198	88790	49639	11.81
2 Naphthalene-d8	182374	91187	364748	192104	5.34
3 Acenaphthene-d10	111075	55538	222150	113506	2.19
4 Phenanthrene-d10	217977	108988	435954	228933	5.03
5 Chrysene-d12	247793	123896	495586	254672	2.78
6 Perylene-d12	221015	110508	442030	243033	9.96

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
1 1,4-Dichlorobenze	4.30	3.80	4.80	4.30	0.00
2 Naphthalene-d8	5.89	5.39	6.39	5.89	0.00
3 Acenaphthene-d10	8.48	7.98	8.98	8.48	0.00
4 Phenanthrene-d10	9.89	9.39	10.39	9.89	0.00
5 Chrysene-d12	11.93	11.43	12.43	11.92	-0.05
6 Perylene-d12	13.85	13.35	14.35	13.85	-0.04

AREA UPPER LIMIT = +100% of internal standard area.

AREA LOWER LIMIT = - 50% of internal standard area.

RT UPPER LIMIT = + 0.50 minutes of internal standard RT.

RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /var/chem/gcms/md.i/D072711.b/mk2dq1aa.d

Report Date: 28-Jul-2011 10:47

TestAmerica Knoxville

RECOVERY REPORT

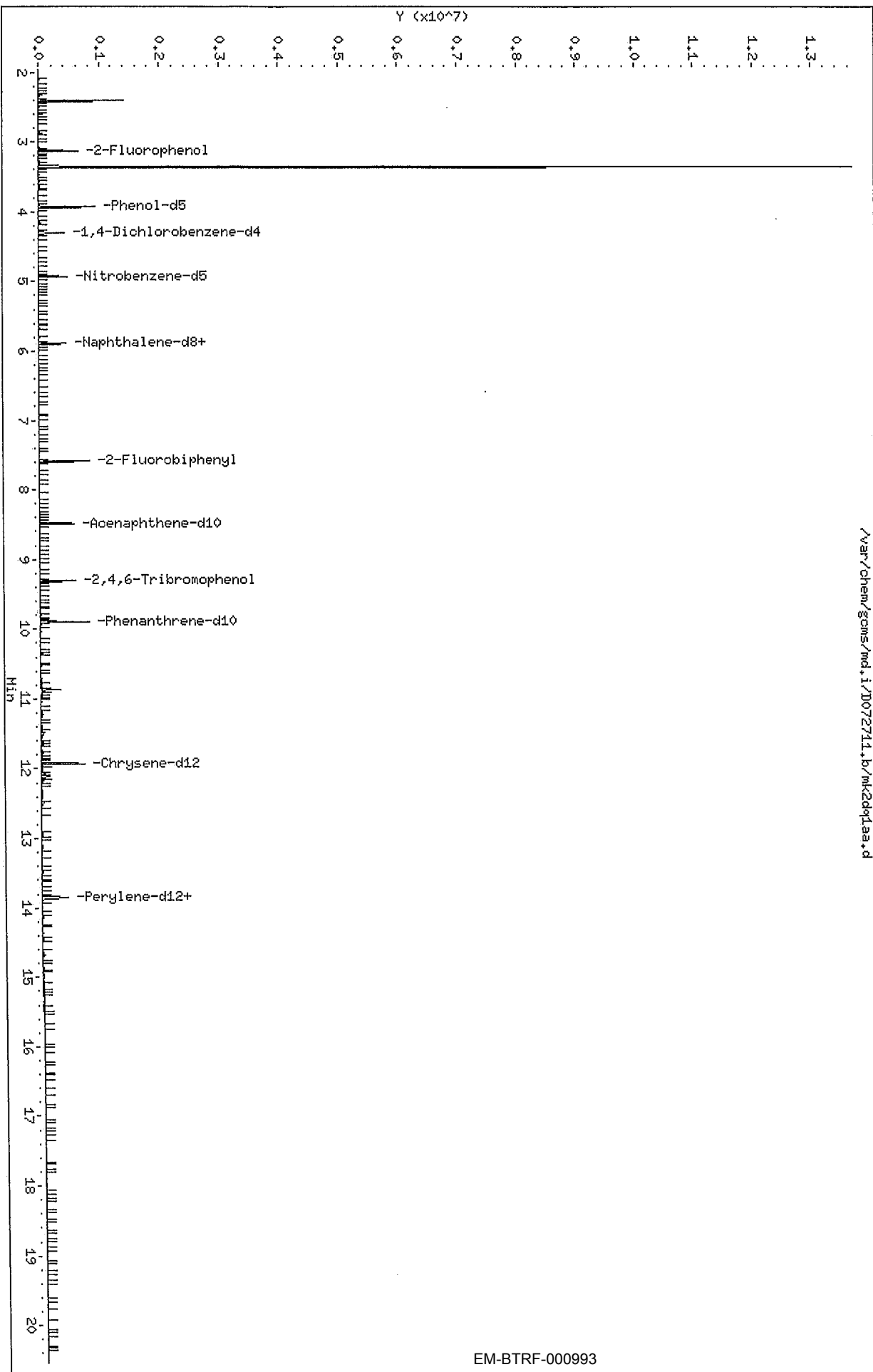
Client Name: Client SDG: H1G200000
 Sample Matrix: GAS Fraction: SV
 Lab Smp Id: MK2DQ1AA Client Smp ID: INTRA-LAB BLANK
 Level: LOW Operator: 60841
 Data Type: MS DATA SampleType: METHOD BLANK
 SpikeList File: allspike.spk Quant Type: ISTD
 Sublist File: ICR.sub
 Method File: /chem/gcms/md.i/D072711.b/8270a9.m
 Misc Info: D072711,8270a9,ICR.sub

SURROGATE COMPOUND	CONC ADDED ug	CONC RECOVERED ug	% RECOVERED	LIMITS
\$ 7 2-Fluorophenol	150	94.7	63.13	19-100
\$ 8 Phenol-d5	150	127	84.98	15-124
\$ 9 Nitrobenzene-d5	100	85.4	85.45	42-104
\$ 11 2,4,6-Tribromophen	150	101	67.24	33-130
\$ 10 2-Fluorobiphenyl	100	86.5	86.54	51-103
\$ 12 Terphenyl-d14	100	0.00	<i>2</i> * 12.40*	58-122
\$ 179 13C6-naphthalene	200	32.40	<i>16</i> * 16.20*	50-150

pu
8.5.11

Data File: /var/chem/gcms/md.i/D072711.b/mk2d41aa.d
Date: 27-JUL-2011 20:12
Client ID: INTRA-LAB BLANK
Sample Info: MK2D010A,,3,,BLK,
Volume Injected (uL): 1.0
Column Phase: Rxi-5 Sil MS

Instrument: md.i
Operator: 60841
Column diameter: 0.25



Data File: /var/chem/gcms/md.i/D072711.b/mk2dq1aa.d

Date : 27-JUL-2011 20:12

Client ID: INTRA-LAB BLANK

Instrument: md.i

Sample Info: MK2DQ1AA,,3,,BLK,

Volume Injected (uL): 1.0

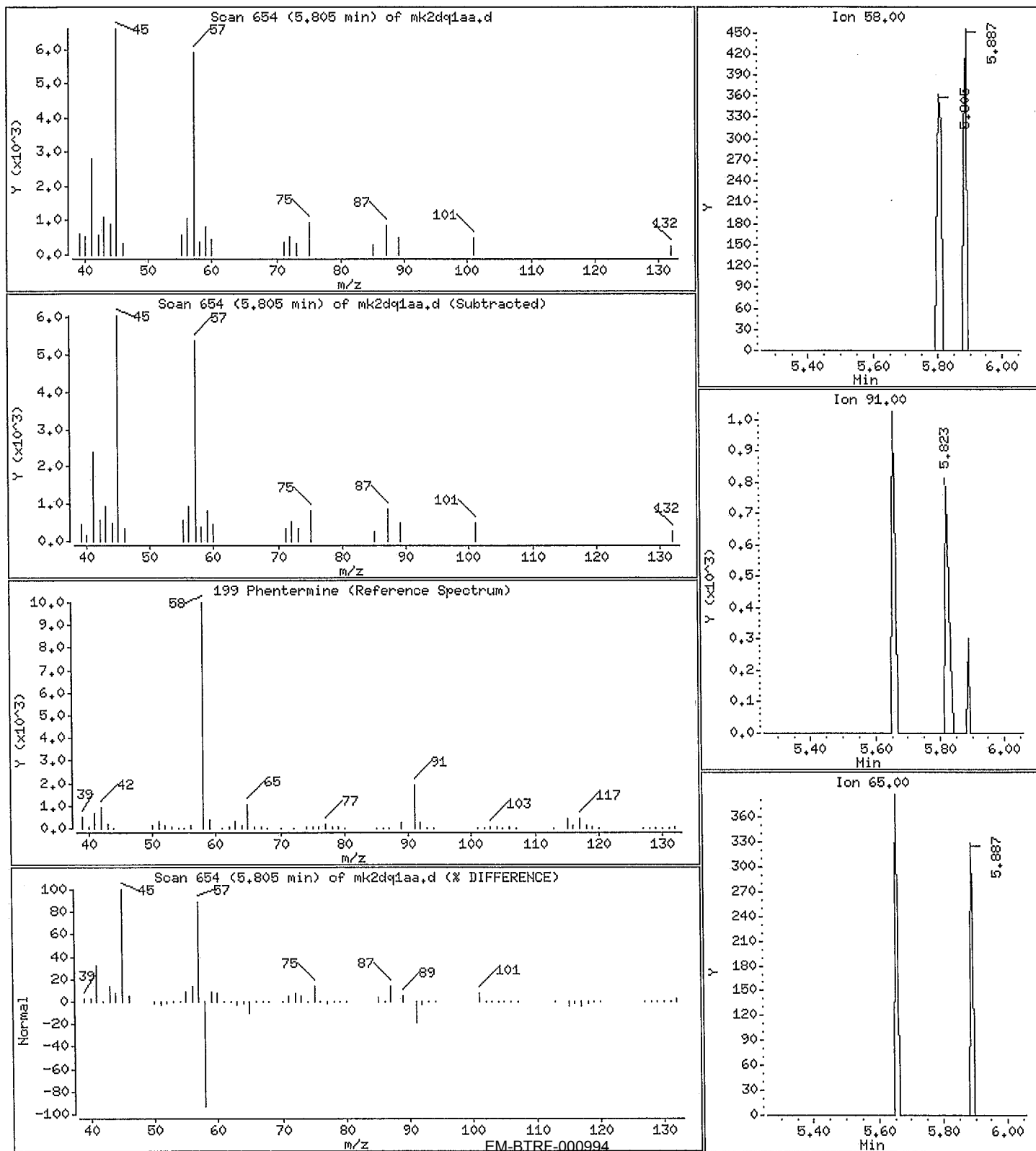
Operator: 60841

Column phase: Rxi-5 Sil MS

Column diameter: 0.25

199 Phentermine

Concentration: 11.9 ug



Data File: /var/chem/gcms/md,i/D072711,b/mk2dq1aa,d

Date : 27-JUL-2011 20:12

Client ID: INTRA-LAB BLANK

Instrument: md,i

Sample Info: MK2DQ1AA,,3,,BLK,

Volume Injected (uL): 1.0

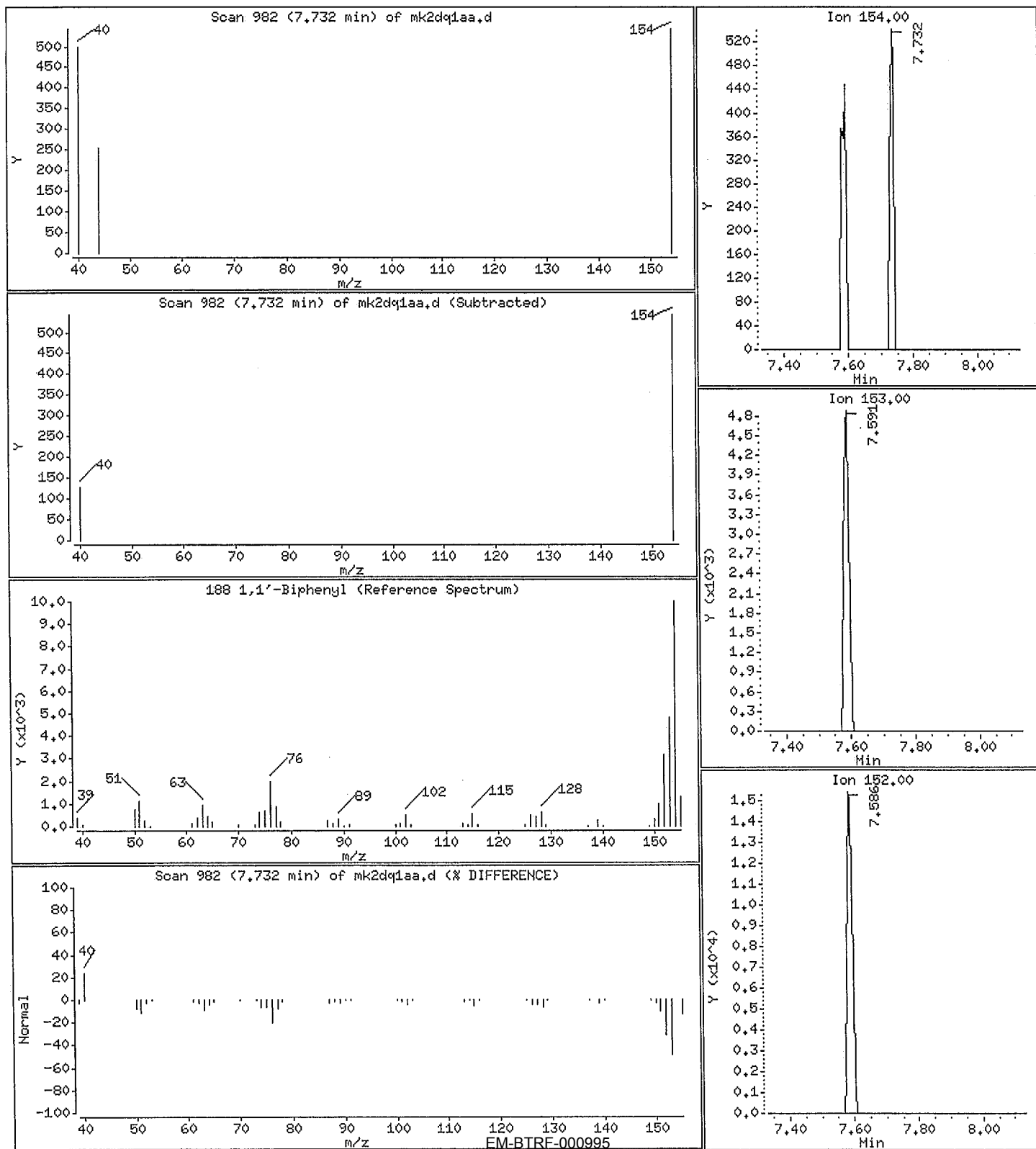
Operator: 60841

Column phase: Rxi-5 Sil MS

Column diameter: 0.25

188 1,1'-Biphenyl

Concentration: 0.104 ug



Data File: /var/chem/gcms/md.i/D072711.b/mk2dq1aa.d

Date: 27-JUL-2011 20:12

Client ID: INTRA-LAB BLANK

Instrument: md.i

Sample Info: MK2DQ1AA,,3,,BLK,

Volume Injected (uL): 1.0

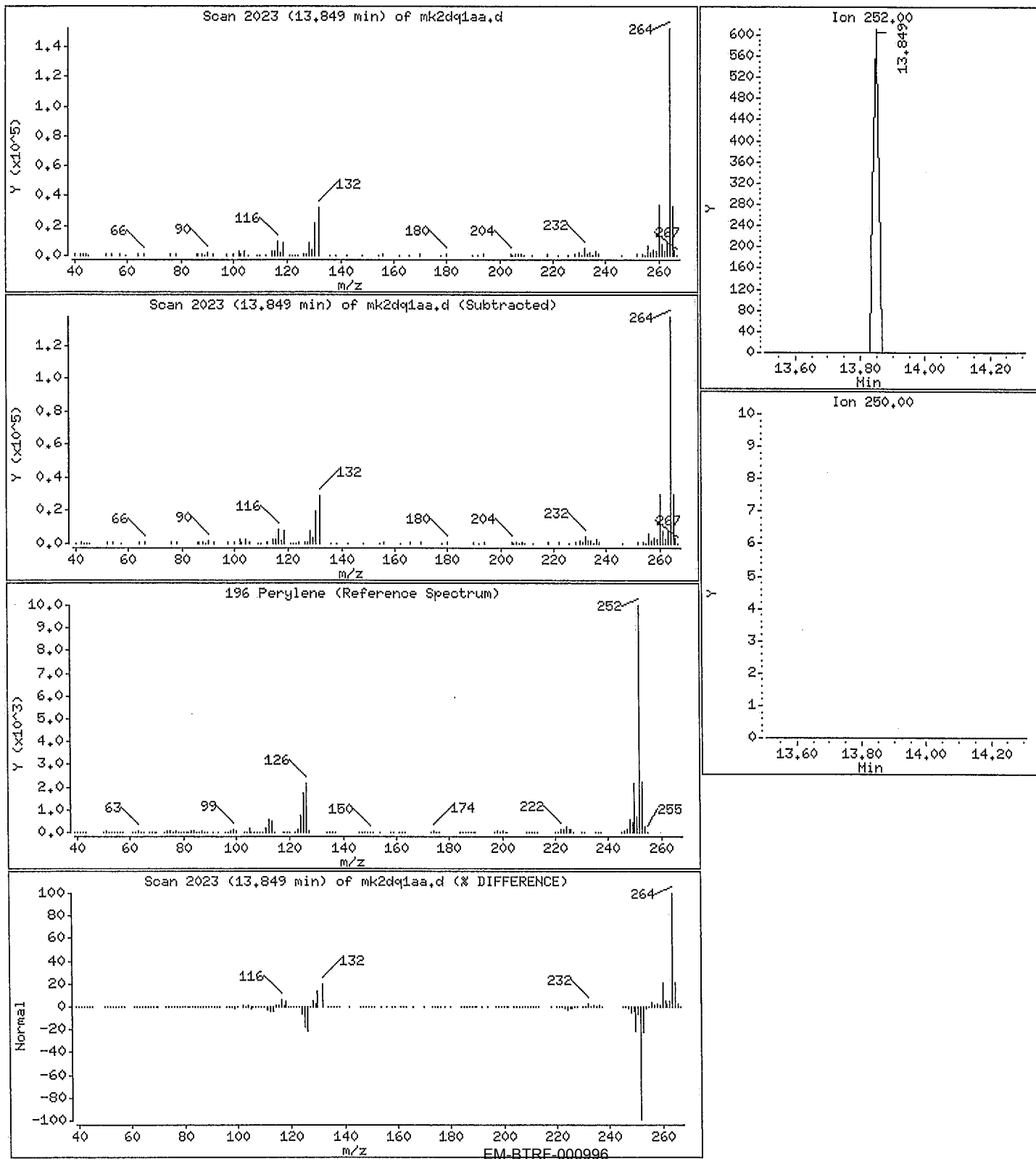
Operator: 60841

Column phase: Rxi-5 Sil MS

Column diameter: 0.25

196 Perylene

Concentration: 0.116 ug



LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: H1G190403 Work Order #...: MK2DQ1AC-LCS Matrix.....: AIR
 LCS Lot-Sample#: H1G200000-076 MK2DQ1AD-LCSD
 Prep Date.....: 07/20/11 Analysis Date...: 07/27/11
 Prep Batch #...: 1201076
 Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Acenaphthene	91	(63 - 107)			SW846 8270C
	94	(63 - 107)	2.9	(0-36)	SW846 8270C
Acenaphthylene	94	(64 - 112)			SW846 8270C
	96	(64 - 112)	1.9	(0-36)	SW846 8270C
Aniline	93	(48 - 109)			SW846 8270C
	96	(48 - 109)	2.8	(0-50)	SW846 8270C
Anthracene	94	(59 - 114)			SW846 8270C
	96	(59 - 114)	1.9	(0-36)	SW846 8270C
Benz (a) anthracene	98	(50 - 130)			SW846 8270C
	102	(50 - 130)	4.0	(0-50)	SW846 8270C
Benzidine	86	(10 - 150)			SW846 8270C
	91	(10 - 150)	6.2	(0-50)	SW846 8270C
Benzo (b) fluoranthene	109	(63 - 122)			SW846 8270C
	110	(63 - 122)	0.91	(0-50)	SW846 8270C
Benzo (k) fluoranthene	92	(69 - 118)			SW846 8270C
	90	(69 - 118)	2.1	(0-50)	SW846 8270C
Benzo (ghi) perylene	99	(71 - 122)			SW846 8270C
	97	(71 - 122)	1.5	(0-50)	SW846 8270C
Benzo (a) pyrene	93	(67 - 122)			SW846 8270C
	92	(67 - 122)	0.54	(0-50)	SW846 8270C
Benzo (e) pyrene	102	(50 - 130)			SW846 8270C
	102	(50 - 130)	0.0	(0-50)	SW846 8270C
Biphenyl	85	(50 - 130)			SW846 8270C
	87	(50 - 130)	2.2	(0-50)	SW846 8270C
Chrysene	93	(67 - 114)			SW846 8270C
	97	(67 - 114)	4.1	(0-41)	SW846 8270C
Cresols (total)	97	(50 - 130)			SW846 8270C
	100	(50 - 130)	3.0	(0-50)	SW846 8270C
Dibenz (a,h) anthracene	97	(67 - 122)			SW846 8270C
	98	(67 - 122)	0.92	(0-50)	SW846 8270C
Dibenzofuran	95	(60 - 108)			SW846 8270C
	96	(60 - 108)	1.2	(0-37)	SW846 8270C
Dibenzo (a,e) pyrene	93	(50 - 130)			SW846 8270C
	95	(50 - 130)	1.4	(0-50)	SW846 8270C
3,3'-Dimethoxybenzidine	104	(30 - 130)			SW846 8270C
	112	(30 - 130)	7.4	(0-50)	SW846 8270C
p-Dimethylaminoazobenzene	103	(50 - 130)			SW846 8270C
	107	(50 - 130)	3.8	(0-50)	SW846 8270C
7,12-Dimethylbenz (a) - anthracene	68	(50 - 130)			SW846 8270C
	70	(50 - 130)	4.2	(0-50)	SW846 8270C

(Continued on next page)
 EM-BTRF-000997

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: H1G190403 Work Order #...: MK2DQ1AC-LCS Matrix.....: AIR
 LCS Lot-Sample#: H1G200000-076 MK2DQ1AD-LCSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
3,3'-Dimethylbenzidine	107	(30 - 130)			SW846 8270C
	116	(30 - 130)	8.1	(0-50)	SW846 8270C
alpha,alpha-Dimethylphenet	69	(30 - 130)			SW846 8270C
	71	(30 - 130)	3.6	(0-50)	SW846 8270C
2,4-Dimethylphenol	92	(10 - 125)			SW846 8270C
	94	(10 - 125)	2.4	(0-41)	SW846 8270C
Fluoranthene	104	(55 - 120)			SW846 8270C
	106	(55 - 120)	1.9	(0-34)	SW846 8270C
Fluorene	95	(64 - 114)			SW846 8270C
	98	(64 - 114)	2.3	(0-36)	SW846 8270C
Indeno (1,2,3-cd)pyrene	102	(72 - 126)			SW846 8270C
	102	(72 - 126)	0.0	(0-50)	SW846 8270C
Isophorone	94	(56 - 111)			SW846 8270C
	94	(56 - 111)	0.42	(0-37)	SW846 8270C
3-Methylcholanthrene	89	(50 - 130)			SW846 8270C
	90	(50 - 130)	0.44	(0-30)	SW846 8270C
2-Methylnaphthalene	96	(56 - 111)			SW846 8270C
	96	(56 - 111)	0.62	(0-38)	SW846 8270C
Naphthalene	88	(59 - 104)			SW846 8270C
	88	(59 - 104)	0.56	(0-38)	SW846 8270C
Nitrobenzene	88	(58 - 109)			SW846 8270C
	89	(58 - 109)	1.2	(0-38)	SW846 8270C
Perylene	100	(50 - 130)			SW846 8270C
	99	(50 - 130)	1.3	(0-50)	SW846 8270C
Phenanthrene	92	(58 - 109)			SW846 8270C
	94	(58 - 109)	1.6	(0-35)	SW846 8270C
Phenol	94	(54 - 114)			SW846 8270C
	93	(54 - 114)	0.64	(0-39)	SW846 8270C
1,4-Phenylenediamine	22	(5.0- 130)			SW846 8270C
	26	(5.0- 130)	17	(0-50)	SW846 8270C
Pyrene	96	(76 - 118)			SW846 8270C
	101	(76 - 118)	5.4	(0-41)	SW846 8270C
o-Toluidine	96	(30 - 130)			SW846 8270C
	99	(30 - 130)	3.4	(0-50)	SW846 8270C

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	67	(22 - 105)
	63	(22 - 105)
Phenol-d5	89	(48 - 118)
	90	(48 - 118)
Nitrobenzene-d5	85	(43 - 110)
	89	(43 - 110)
2-Fluorobiphenyl	86	(48 - 111)

(Continued on next page)

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: H1G190403 Work Order #...: MK2DQ1AC-LCS Matrix.....: AIR
LCS Lot-Sample#: H1G200000-076 MK2DQ1AD-LCSD

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
	88	(48 - 111)
2,4,6-Tribromophenol	83	(34 - 125)
	85	(34 - 125)

NOTE (S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Semivolatiles

Client Lot #...: H1G190403 Work Order #...: MK2DQ1AC-LCS Matrix.....: AIR
 LCS Lot-Sample#: H1G200000-076 MK2DQ1AD-LCSD
 Prep Date.....: 07/20/11 Analysis Date...: 07/27/11
 Prep Batch #...: 1201076
 Dilution Factor: 1

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
Acenaphthene	100	90.8	ug	91		SW846 8270C
	100	93.5	ug	94	2.9	SW846 8270C
Acenaphthylene	100	94.1	ug	94		SW846 8270C
	100	95.9	ug	96	1.9	SW846 8270C
Aniline	100	93.0	ug	93		SW846 8270C
	100	95.6	ug	96	2.8	SW846 8270C
Anthracene	100	94.3	ug	94		SW846 8270C
	100	96.1	ug	96	1.9	SW846 8270C
Benz (a) anthracene	100	98.0	ug	98		SW846 8270C
	100	102	ug	102	4.0	SW846 8270C
Benzidine	200	171	ug	86		SW846 8270C
	200	182	ug	91	6.2	SW846 8270C
Benzo (b) fluoranthene	100	109	ug	109		SW846 8270C
	100	110	ug	110	0.91	SW846 8270C
Benzo (k) fluoranthene	100	91.8	ug	92		SW846 8270C
	100	89.9	ug	90	2.1	SW846 8270C
Benzo (ghi) perylene	100	98.8	ug	99		SW846 8270C
	100	97.3	ug	97	1.5	SW846 8270C
Benzo (a) pyrene	100	92.7	ug	93		SW846 8270C
	100	92.2	ug	92	0.54	SW846 8270C
Benzo (e) pyrene	100	102	ug	102		SW846 8270C
	100	102	ug	102	0.0	SW846 8270C
Biphenyl	100	84.8	ug	85		SW846 8270C
	100	86.7	ug	87	2.2	SW846 8270C
Chrysene	100	93.4	ug	93		SW846 8270C
	100	97.3	ug	97	4.1	SW846 8270C
Cresols (total)	200	194	ug	97		SW846 8270C
	200	200	ug	100	3.0	SW846 8270C
Dibenz (a,h) anthracene	100	96.6	ug	97		SW846 8270C
	100	97.5	ug	98	0.92	SW846 8270C
Dibenzofuran	100	94.7	ug	95		SW846 8270C
	100	95.9	ug	96	1.2	SW846 8270C
Dibenzo (a,e) pyrene	100	93.3	ug	93		SW846 8270C
	100	94.6	ug	95	1.4	SW846 8270C
3,3'-Dimethoxybenzidine	100	104	ug	104		SW846 8270C
	100	112	ug	112	7.4	SW846 8270C
p-Dimethylaminoazobenzene	100	103	ug	103		SW846 8270C
	100	107	ug	107	3.8	SW846 8270C
7,12-Dimethylbenz (a) - anthracene	100	67.6	ug	68		SW846 8270C
	100	70.5	ug	70	4.2	SW846 8270C

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 EM-BTRF-001000

LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Semivolatiles

Client Lot #...: H1G190403 Work Order #...: MK2DQ1AC-LCS Matrix.....: AIR
 LCS Lot-Sample#: H1G200000-076 MK2DQ1AD-LCSD

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
3,3'-Dimethylbenzidine	100	107	ug	107		SW846 8270C
	100	116	ug	116	8.1	SW846 8270C
alpha, alpha-Dimethylphenet	100	68.7	ug	69		SW846 8270C
	100	71.2	ug	71	3.6	SW846 8270C
2,4-Dimethylphenol	100	92.2	ug	92		SW846 8270C
	100	94.4	ug	94	2.4	SW846 8270C
Fluoranthene	100	104	ug	104		SW846 8270C
	100	106	ug	106	1.9	SW846 8270C
Fluorene	100	95.4	ug	95		SW846 8270C
	100	97.6	ug	98	2.3	SW846 8270C
Indeno (1,2,3-cd) pyrene	100	102	ug	102		SW846 8270C
	100	102	ug	102	0.0	SW846 8270C
Isophorone	100	93.5	ug	94		SW846 8270C
	100	93.9	ug	94	0.42	SW846 8270C
3-Methylcholanthrene	100	89.4	ug	89		SW846 8270C
	100	89.8	ug	90	0.44	SW846 8270C
2-Methylnaphthalene	100	95.9	ug	96		SW846 8270C
	100	96.5	ug	96	0.62	SW846 8270C
Naphthalene	100	88.2	ug	88		SW846 8270C
	100	87.7	ug	88	0.56	SW846 8270C
Nitrobenzene	100	88.2	ug	88		SW846 8270C
	100	89.3	ug	89	1.2	SW846 8270C
Perylene	100	100	ug	100		SW846 8270C
	100	98.7	ug	99	1.3	SW846 8270C
Phenanthrene	100	92.2	ug	92		SW846 8270C
	100	93.7	ug	94	1.6	SW846 8270C
Phenol	100	93.9	ug	94		SW846 8270C
	100	93.3	ug	93	0.64	SW846 8270C
1,4-Phenylenediamine	100	22.3	ug	22		SW846 8270C
	100	26.4	ug	26	17	SW846 8270C
Pyrene	100	95.7	ug	96		SW846 8270C
	100	101	ug	101	5.4	SW846 8270C
o-Toluidine	100	95.7	ug	96		SW846 8270C
	100	99.0	ug	99	3.4	SW846 8270C

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	67	(22 - 105)
	63	(22 - 105)
Phenol-d5	89	(48 - 118)
	90	(48 - 118)
Nitrobenzene-d5	85	(43 - 110)
	89	(43 - 110)
2-Fluorobiphenyl	86	(48 - 111)

(Continued on next page)

LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Semivolatiles

Client Lot #...: H1G190403 Work Order #...: MK2DQ1AC-LCS Matrix.....: AIR
LCS Lot-Sample#: H1G200000-076 MK2DQ1AD-LCSD

<u>SURROGATE</u>	<u>PERCENT</u> <u>RECOVERY</u>	<u>RECOVERY</u> <u>LIMITS</u>
	88	(48 - 111)
2,4,6-Tribromophenol	83	(34 - 125)
	85	(34 - 125)

NOTE (S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

Data File: /var/chem/gcms/md.i/D072711.b/mk2dq1ac.d

Report Date: 28-Jul-2011 10:57

TestAmerica Knoxville

Semivolatile Organic Compounds by GC/MS

Data file : /var/chem/gcms/md.i/D072711.b/mk2dq1ac.d
 Lab Smp Id: MK2DQ1AC Client Smp ID: INTRA-LAB CHECK
 Inj Date : 27-JUL-2011 20:41
 Operator : 60841 Inst ID: md.i
 Smp Info : MK2DQ1AC,,3,,LCS,
 Misc Info : D072711,8270a9,ICR.sub
 Comment : Semivolatile Organic Compounds by GC/MS
 Method : /chem/gcms/md.i/D072711.b/8270a9.m
 Meth Date : 27-Jul-2011 17:16 mcgeek Quant Type: ISTD
 Cal Date : 26-JUL-2011 17:42 Cal File: a9dg267.d
 Als bottle: 13 QC Sample: METHOD SPIKE
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: ICR.sub
 Target Version: 3.50
 Processing Host: qmidhp01

Concentration Formula: Amt * DF * (Vt*Sf)/(Vo*Uf) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	1000.00000	Volume of final extract (uL)
Sf	1.00000	Prep split factor
Vo	1.00000	Volume of sample extracted (1=total samp
Uf	1000.00000	unit correction factor

Cpnd Variable

Local Compound Variable

Compounds	QUANT SIG	MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN (ng/uL)	FINAL (ug)
* 1 1,4-Dichlorobenzene-d4	152	4.301	4.301	(1.000)	50008	20.0000	20.0	
* 2 Naphthalene-d8	136	5.888	5.887	(1.000)	203678	20.0000	20.0	
* 3 Acenaphthene-d10	164	8.485	8.484	(1.000)	126633	20.0000	20.0	
* 4 Phenanthrene-d10	188	9.895	9.895	(1.000)	252167	20.0000	20.0	
* 5 Chrysene-d12	240	11.928	11.928	(1.000)	274360	20.0000	20.0	
* 6 Perylene-d12	264	13.855	13.855	(1.000)	251499	20.0000	20.0	
\$ 7 2-Fluorophenol	112	3.132	3.126	(0.728)	138674	50.2283	50.2	
\$ 8 Phenol-d5	99	3.937	3.931	(0.915)	220161	66.5070	66.5	
\$ 9 Nitrobenzene-d5	82	4.930	4.930	(0.837)	137976	42.5104	42.5	
\$ 11 2,4,6-Tribromophenol	330	9.307	9.307	(0.941)	62500	61.9090	61.9	
\$ 10 2-Fluorobiphenyl	172	7.591	7.591	(0.895)	342099	43.1854	43.2	
\$ 179 13C6-naphthalene	134	5.888	5.917	(1.000)	19635	1.77397	1.77 (RT NA)	
15 Phenol (ccc)	94	3.949	3.949	(0.918)	319854	93.9497	93.9	

Data File: /var/chem/gcms/md.i/D072711.b/mk2dq1ac.d
Report Date: 28-Jul-2011 10:57

Compounds	QUANT SIG						CONCENTRATIONS	
	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN	FINAL	
=====	=====	==	=====	=====	=====	=====	=====	
16 Aniline	93	3.972	3.972	(0.924)	392213	92.9564	93.0	
23 2-Methylphenol	108	4.577	4.565	(1.064)	258947	96.2560	96.2	
26 3&4 Methylphenol	108	4.759	4.753	(1.107)	272125	98.1017	98.1	
M 204 total cresols (methylphenols)	108				531072	194.358	194	
95 o-toluidine	106	4.789	4.783	(1.113)	440382	95.7186	95.7	
29 Nitrobenzene	77	4.953	4.953	(0.841)	280603	88.2453	88.2	
30 Isophorone	82	5.271	5.271	(0.895)	488962	93.5043	93.5	
32 2,4-Dimethylphenol	107	5.453	5.447	(0.926)	315136	92.2230	92.2	
199 Phentermine	58	6.246	5.658	(1.061)	579231	68.7447	68.7 (M)	
37 Naphthalene	128	5.917	5.923	(1.005)	860363	88.1539	88.2	
202 1,4-Phenylenediamine	108	6.510	6.499	(1.106)	75203	22.2954	22.3	
41 2-Methylnaphthalene	142	6.933	6.933	(1.178)	632946	95.8792	95.9	
188 1,1'-Biphenyl	154	7.738	7.732	(0.912)	850529	84.7630	84.8	
47 Acenaphthylene	152	8.308	8.308	(0.979)	1016402	94.0968	94.1	
51 Acenaphthene (ccc)	153	8.526	8.520	(1.005)	648621	90.7519	90.8	
53 Dibenzofuran	168	8.720	8.719	(1.028)	943127	94.6851	94.7	
56 Fluorene	166	9.078	9.078	(1.070)	786690	95.3937	95.4	
66 Phenanthrene	178	9.918	9.912	(1.002)	1245902	92.2273	92.2	
67 Anthracene	178	9.953	9.953	(1.006)	1236575	94.3491	94.3	
70 Fluoranthene (ccc)	202	10.788	10.788	(1.090)	1444520	103.756	104	
84 Benzidine	184	10.876	10.870	(1.099)	1512803	171.335	171 (A)	
71 Pyrene	202	10.941	10.940	(0.917)	1487056	95.7080	95.7	
116 p- (dimethylamino)azobenzene	120	11.146	11.146	(1.126)	395206	103.080	103	
117 o-tolidine	212	11.399	11.399	(1.152)	911981	106.986	107	
200 3,3'-Dimethoxybenzidine	244	11.851	11.851	(0.994)	387506	104.447	104	
73 Benzo(a)Anthracene	228	11.916	11.916	(0.999)	1333197	97.9993	98.0	
75 Chrysene	228	11.957	11.957	(1.002)	1355032	93.3737	93.4	
119 7,12-dimethylbenz(a)anthracen	256	13.232	13.226	(1.109)	459542	67.6354	67.6	
78 Benzo(b)fluoranthene	252	13.244	13.238	(0.956)	1380930	109.437	109	
79 Benzo(k)fluoranthene	252	13.285	13.279	(0.959)	1395237	91.7559	91.8	
85 Benzo(e)pyrene	252	13.679	13.673	(0.987)	1284527	101.711	102	
80 Benzo(a)pyrene (ccc)	252	13.767	13.761	(0.994)	1287988	92.6807	92.7	
196 Perylene	252	13.914	13.908	(1.004)	1278182	100.556	100	
120 3-methylcholanthrene	268	14.372	14.372	(1.037)	674740	89.4083	89.4	
81 Indeno(1,2,3-cd)pyrene	276	15.330	15.330	(1.106)	1405758	101.973	102	
82 Dibenz(a,h)anthracene	278	15.359	15.353	(1.109)	1089757	96.6288	96.6	
83 Benzo(g,h,i)perylene	276	15.664	15.664	(1.131)	1202096	98.8391	98.8	
201 Dibenzo(a,e)pyrene	302	18.003	17.997	(1.299)	971054	93.3369	93.3	

QC Flag Legend

- A - Target compound detected but, quantitated amount exceeded maximum amount.
- R - Spike/Surrogate failed recovery limits.
- M - Compound response manually integrated.

Data File: /var/chem/gcms/md.i/D072711.b/mk2dq1ac.d
Report Date: 28-Jul-2011 10:42

TestAmerica Knoxville

Semivolatile Organic Compounds by GC/MS

Data file : /var/chem/gcms/md.i/D072711.b/mk2dq1ac.d
Lab Smp Id: MK2DQ1AC Client Smp ID: INTRA-LAB CHECK
Inj Date : 27-JUL-2011 20:41
Operator : 60841 Inst ID: md.i
Smp Info : MK2DQ1AC,,3,,LCS,
Misc Info : D072711,8270a9,ICR.sub
Comment : Semivolatile Organic Compounds by GC/MS
Method : /chem/gcms/md.i/D072711.b/8270a9.m
Meth Date : 27-Jul-2011 17:16 mcgeek Quant Type: ISTD
Cal Date : 26-JUL-2011 17:42 Cal File: a9dg267.d
Als bottle: 13 QC Sample: METHOD SPIKE
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ICR.sub
Target Version: 3.50
Processing Host: qmidhp01

Concentration Formula: $\text{Amt} * \text{DF} * (\text{Vt} * \text{Sf}) / (\text{Vo} * \text{Uf}) * \text{CpndVariable}$

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	1000.00000	Volume of final extract (uL)
Sf	1.00000	Prep split factor
Vo	1.00000	Volume of sample extracted (1=total samp
Uf	1000.00000	unit correction factor

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG	MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN (ng/uL)	FINAL (ug)
* 1 1,4-Dichlorobenzene-d4	=====	152	4.301	4.301	(1.000)	50008	20.0000	20.0
* 2 Naphthalene-d8	=====	136	5.888	5.887	(1.000)	203678	20.0000	20.0
* 3 Acenaphthene-d10	=====	164	8.485	8.484	(1.000)	126633	20.0000	20.0
* 4 Phenanthrene-d10	=====	188	9.895	9.895	(1.000)	252167	20.0000	20.0
* 5 Chrysene-d12	=====	240	11.928	11.928	(1.000)	274360	20.0000	20.0
* 6 Perylene-d12	=====	264	13.855	13.855	(1.000)	251499	20.0000	20.0
\$ 7 2-Fluorophenol	=====	112	3.132	3.126	(0.728)	138674	50.2284	50.2
\$ 8 Phenol-d5	=====	99	3.937	3.931	(0.915)	220161	66.5071	66.5
\$ 9 Nitrobenzene-d5	=====	82	4.930	4.930	(0.837)	137976	42.5105	42.5
\$ 11 2,4,6-Tribromophenol	=====	330	9.307	9.307	(0.941)	62500	61.9096	61.9
\$ 10 2-Fluorobiphenyl	=====	172	7.591	7.591	(0.895)	342099	43.1852	43.2
\$ 179 13C6-naphthalene	=====	134	5.888	5.917	(1.000)	19635	1.77399	1.77 (TR) <i>WMA</i>
15 Phenol (ccc)	=====	94	3.949	3.949	(0.918)	319854	93.9498	93.9

Ken 7/28/11

Data File: /var/chem/gcms/md.i/D072711.b/mk2dq1ac.d

Report Date: 28-Jul-2011 10:42

Compounds	QUANT SIG	MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN	FINAL
							(ng/uL)	(ug)
=====	=====	=====	=====	=====	=====	=====	=====	=====
16 Aniline		93	3.972	3.972	(0.924)	392213	92.9566	93.0
23 2-Methylphenol		108	4.577	4.565	(1.064)	258947	96.2563	96.2
26 3&4 Methylphenol		108	4.759	4.753	(1.107)	272125	98.1018	98.1
M 204 total cresols (methylphenols)		108				531073	194.358	194
95 o-toluidine		106	4.789	4.783	(1.113)	440382	95.7187	95.7
29 Nitrobenzene		77	4.953	4.953	(0.841)	280603	88.2455	88.2
30 Isophorone		82	5.271	5.271	(0.895)	488962	93.5045	93.5
32 2,4-Dimethylphenol		107	5.453	5.447	(0.926)	315136	92.2232	92.2
199 Phentermine		58	5.694	5.658	(0.967)	598	5.96155	5.96 ⑥
37 Naphthalene		128	5.917	5.923	(1.005)	860363	88.1539	88.2
202 1,4-Phenylenediamine		108	6.510	6.499	(1.106)	75203	22.2954	22.3
41 2-Methylnaphthalene		142	6.933	6.933	(1.178)	632946	95.8793	95.9
188 1,1'-Biphenyl		154	7.738	7.732	(0.912)	850529	84.7625	84.8
47 Acenaphthylene		152	8.308	8.308	(0.979)	1016402	94.0962	94.1
51 Acenaphthene (ccc)		153	8.526	8.520	(1.005)	648621	90.7513	90.8
53 Dibenzofuran		168	8.720	8.719	(1.028)	943127	94.6845	94.7
56 Fluorene		166	9.078	9.078	(1.070)	786690	95.3931	95.4
66 Phenanthrene		178	9.918	9.912	(1.002)	1245902	92.2270	92.2
67 Anthracene		178	9.953	9.953	(1.006)	1236575	94.3488	94.3
70 Fluoranthene (ccc)		202	10.788	10.788	(1.090)	1444520	103.756	104
84 Benzdine		184	10.876	10.870	(1.099)	1512803	171.334	171 (A)
71 Pyrene		202	10.941	10.940	(0.917)	1487056	95.7077	95.7
116 p-(dimethylamino)azobenzene		120	11.146	11.146	(1.126)	395206	103.080	103
117 o-tolidine		212	11.399	11.399	(1.152)	911981	106.986	107
200 3,3'-Dimethoxybenzidine		244	11.851	11.851	(0.994)	387506	104.447	104
73 Benzo(a)Anthracene		228	11.916	11.916	(0.999)	1333197	97.9990	98.0
75 Chrysene		228	11.957	11.957	(1.002)	1355032	93.3734	93.4
119 7,12-dimethylbenz(a)anthracene		256	13.232	13.226	(1.109)	459542	67.6353	67.6
78 Benzo(b)fluoranthene		252	13.244	13.238	(0.956)	1380930	109.437	109
79 Benzo(k)fluoranthene		252	13.285	13.279	(0.959)	1395237	91.7557	91.8
85 Benzo(e)pyrene		252	13.679	13.673	(0.987)	1284527	101.711	102
80 Benzo(a)pyrene (ccc)		252	13.767	13.761	(0.994)	1287988	92.6805	92.7
196 Perylene		252	13.914	13.908	(1.004)	1278182	100.556	100
120 3-methylcholanthrene		268	14.372	14.372	(1.037)	674740	89.4082	89.4
81 Indeno(1,2,3-cd)pyrene		276	15.330	15.330	(1.106)	1405758	101.973	102
82 Dibenz(a,h)anthracene		278	15.359	15.353	(1.109)	1089757	96.6286	96.6
83 Benzo(g,h,i)perylene		276	15.664	15.664	(1.131)	1202096	98.8389	98.8
201 Dibenzo(a,e)pyrene		302	18.003	17.997	(1.299)	971054	93.3367	93.3

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

R - Spike/Surrogate failed recovery limits.

KRM 7/28/11

Data File: /var/chem/gcms/md.i/D072711.b/mk2dq1ac.d

Report Date: 28-Jul-2011 10:42

TestAmerica Knoxville

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: md.i

Lab File ID: mk2dq1ac.d

Lab Smp Id: MK2DQ1AC

Analysis Type: SV

Quant Type: ISTD

Operator: 60841

Method File: /chem/gcms/md.i/D072711.b/8270a9.m

Misc Info: D072711,8270a9,ICR.sub

Calibration Date: 27-JUL-2011

Calibration Time: 16:02

Client Smp ID: INTRA-LAB CHECK

Level: LOW

Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
=====	=====	=====	=====	=====	=====
1 1,4-Dichlorobenze	44395	22198	88790	50008	12.64
2 Naphthalene-d8	182374	91187	364748	203678	11.68
3 Acenaphthene-d10	111075	55538	222150	126633	14.01
4 Phenanthrene-d10	217977	108988	435954	252167	15.69
5 Chrysene-d12	247793	123896	495586	274360	10.72
6 Perylene-d12	221015	110508	442030	251499	13.79

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
=====	=====	=====	=====	=====	=====
1 1,4-Dichlorobenze	4.30	3.80	4.80	4.30	0.00
2 Naphthalene-d8	5.89	5.39	6.39	5.89	0.00
3 Acenaphthene-d10	8.48	7.98	8.98	8.48	0.00
4 Phenanthrene-d10	9.89	9.39	10.39	9.89	0.00
5 Chrysene-d12	11.93	11.43	12.43	11.93	0.00
6 Perylene-d12	13.85	13.35	14.35	13.85	0.00

AREA UPPER LIMIT = +100% of internal standard area.

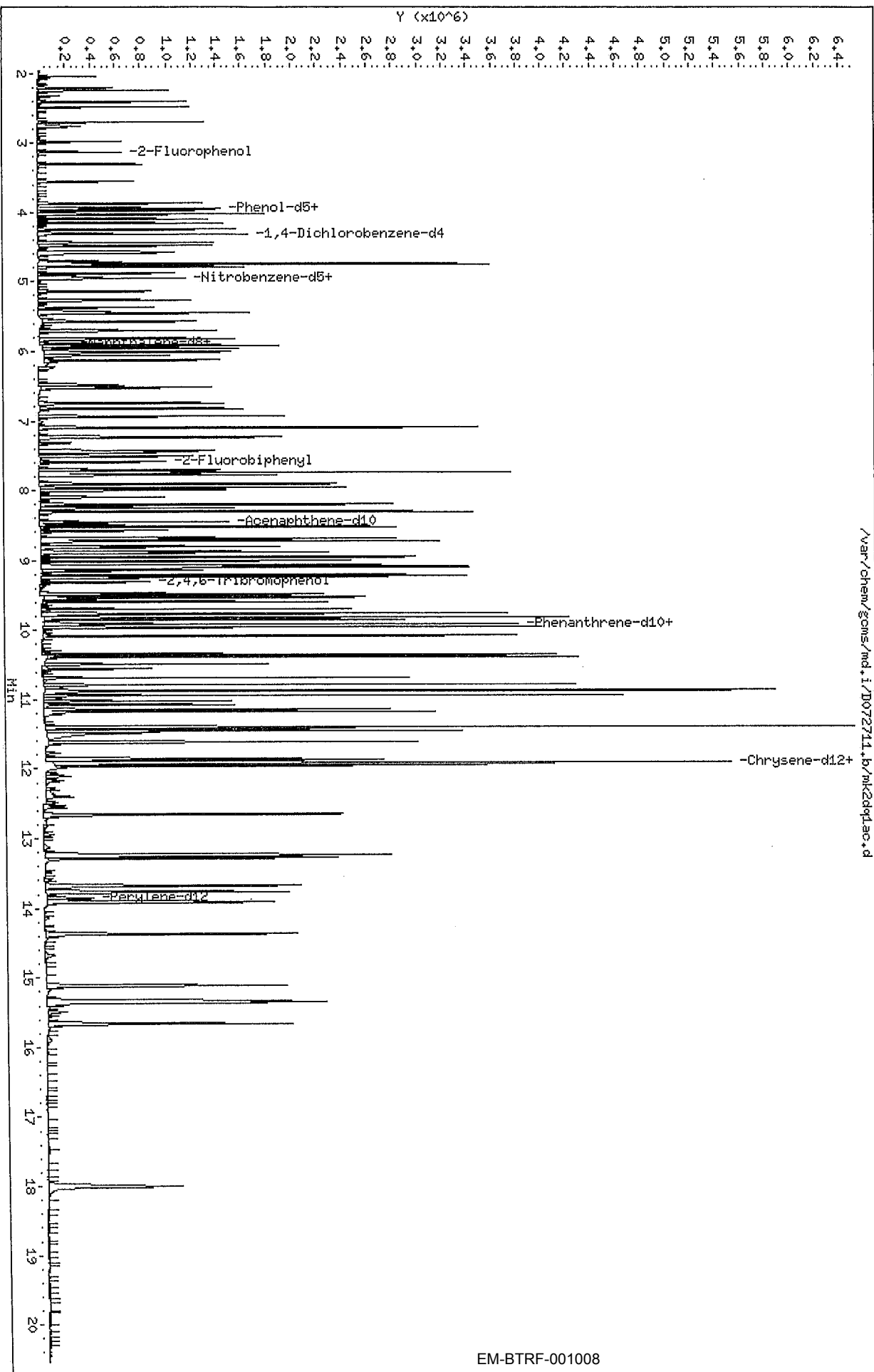
AREA LOWER LIMIT = - 50% of internal standard area.

RT UPPER LIMIT = + 0.50 minutes of internal standard RT.

RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

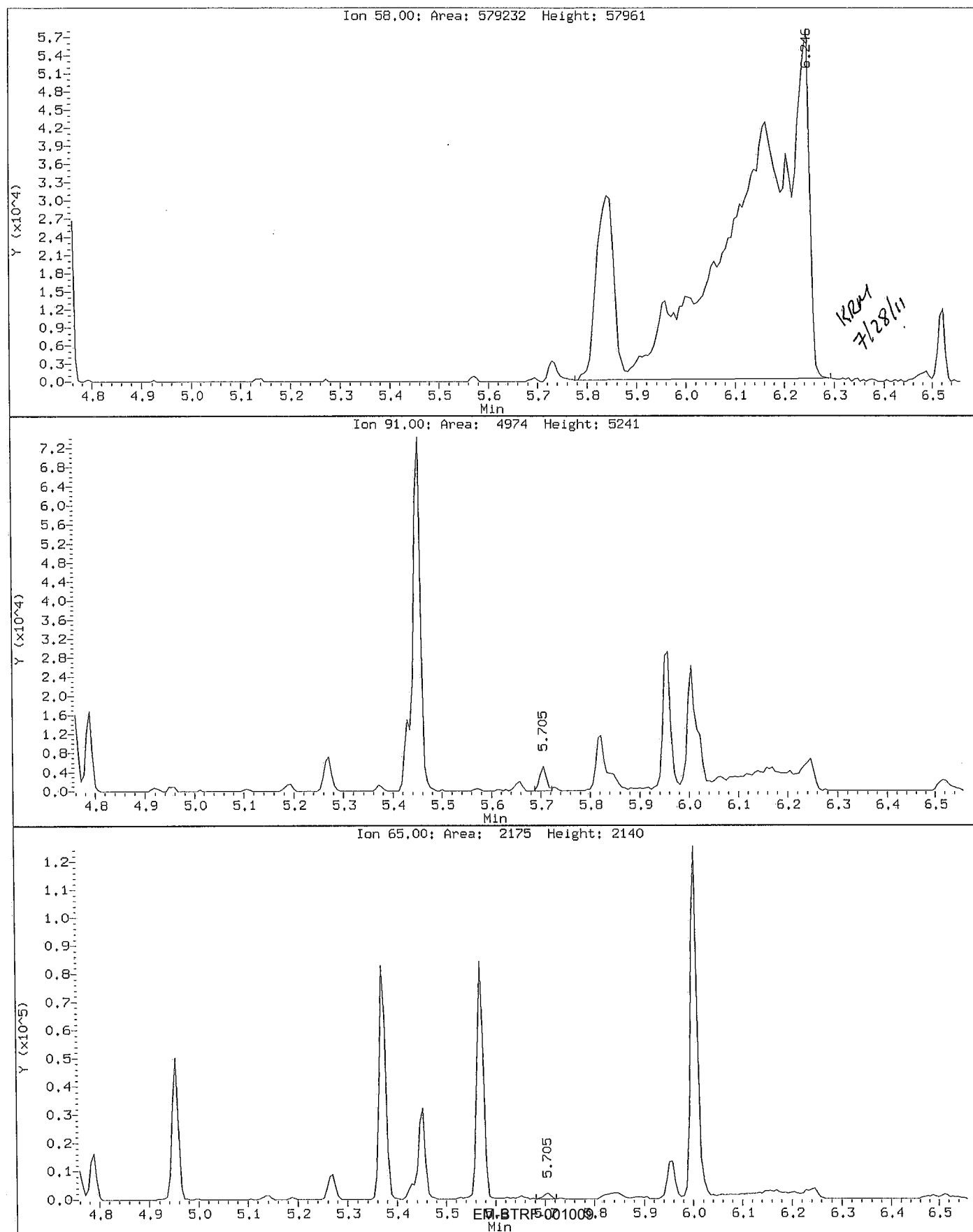
Data File: /var/chem/gcms/md.i/D072711.b/mk2dqlac.d
 Date: 27-JUL-2011 20:41
 Client ID: INTRA-LAB CHECK
 Sample Info: MK2DQ1AC,3,LCS,
 Volume Injected (ul): 1.0
 Column phase: Rxi-5 Sil MS

Instrument: md.i
 Operator: 60841
 Column diameter: 0.25



Data File: /var/chem/gcms/md.i/D072711.b/mk2dq1ac.d
Injection Date: 27-JUL-2011 20:41
Instrument: md.i
Client Sample ID: INTRA-LAB CHECK

Compound: Phentermine
CAS Number: 122-09-8



Data File: /var/chem/gcms/md.i/D072711.b/mk2dq1ad.d
 Report Date: 28-Jul-2011 10:42

TestAmerica Knoxville

Semivolatile Organic Compounds by GC/MS

Data file : /var/chem/gcms/md.i/D072711.b/mk2dq1ad.d
 Lab Smp Id: MK2DQ1AD Client Smp ID: INTRA-LAB CHECK
 Inj Date : 27-JUL-2011 21:09
 Operator : 60841 Inst ID: md.i
 Smp Info : MK2DQ1AD,,3,,DUP,
 Misc Info : D072711,8270a9,ICR.sub
 Comment : Semivolatile Organic Compounds by GC/MS
 Method : /chem/gcms/md.i/D072711.b/8270a9.m
 Meth Date : 27-Jul-2011 17:16 mcgeek Quant Type: ISTD
 Cal Date : 26-JUL-2011 17:42 Cal File: a9dg267.d
 Als bottle: 14 QC Sample: METHOD SPIKE
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: ICR.sub
 Target Version: 3.50
 Processing Host: qmidhp01

Concentration Formula: $\text{Amt} * \text{DF} * (\text{Vt} * \text{Sf}) / (\text{Vo} * \text{Uf}) * \text{CpndVariable}$

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	1000.00000	Volume of final extract (uL)
Sf	1.00000	Prep split factor
Vo	1.00000	Volume of sample extracted (1=total samp
Uf	1000.00000	unit correction factor

Cpnd Variable

Local Compound Variable

8/3/11

Compounds	QUANT SIG	MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN (ng/uL)	FINAL (ug)
* 1 1,4-Dichlorobenzene-d4	=====	152	4.301	4.301	(1.000)	49088	20.0000	20.0
* 2 Naphthalene-d8	=====	136	5.888	5.887	(1.000)	202105	20.0000	20.0
* 3 Acenaphthene-d10	=====	164	8.485	8.484	(1.000)	124337	20.0000	20.0
* 4 Phenanthrene-d10	=====	188	9.895	9.895	(1.000)	250258	20.0000	20.0
* 5 Chrysene-d12	=====	240	11.928	11.928	(1.000)	266436	20.0000	20.0
* 6 Perylene-d12	=====	264	13.855	13.855	(1.000)	256277	20.0000	20.0
\$ 7 2-Fluorophenol	=====	112	3.132	3.126	(0.728)	128095	47.2654	47.3
\$ 8 Phenol-d5	=====	99	3.937	3.931	(0.915)	220294	67.7935	67.8
\$ 9 Nitrobenzene-d5	=====	82	4.924	4.930	(0.836)	143680	44.6125	44.6
\$ 11 2,4,6-Tribromophenol	=====	330	9.307	9.307	(0.941)	64129	64.0081	64.0
\$ 10 2-Fluorobiphenyl	=====	172	7.591	7.591	(0.895)	342319	44.0111	44.0
\$ 179 13C6-naphthalene	=====	134	5.888	5.917	(1.000)	19674	1.79133	1.79 (R)
15 Phenol (ccc)	=====	94	3.949	3.949	(0.918)	311899	93.3287	93.3

Data File: /var/chem/gcms/md.i/D072711.b/mk2dq1ad.d

Report Date: 28-Jul-2011 10:42

Compounds	QUANT SIG						CONCENTRATIONS	
	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN	FINAL	
						(ng/uL)	(ug)	
=====	=====	==	=====	=====	=====	=====	=====	
16 Aniline	93	3.972	3.972	(0.924)	396090	95.6331	95.6	
23 2-Methylphenol	108	4.577	4.565	(1.064)	261765	99.1255	99.1	
26 3&4 Methylphenol	108	4.759	4.753	(1.107)	275658	101.236	101	
M 204 total cresols (methylphenols)	108				537423	200.362	200	
95 o-toluidine	106	4.789	4.783	(1.113)	446991	98.9744	99.0	
29 Nitrobenzene	77	4.953	4.953	(0.841)	281873	89.3346	89.3	
30 Isophorone	82	5.265	5.271	(0.894)	487402	93.9314	93.9	
32 2,4-Dimethylphenol	107	5.453	5.447	(0.926)	320131	94.4139	94.4	
199 Phentermine	58	5.694	5.658	(0.967)	377	5.93818	5.94	⑥
37 Naphthalene	128	5.917	5.923	(1.005)	849340	87.7017	87.7	
202 1,4-Phenylenediamine	108	6.510	6.499	(1.106)	93639	26.3912	26.4	
41 2-Methylnaphthalene	142	6.933	6.933	(1.178)	632292	96.5255	96.5	
188 1,1'-Biphenyl	154	7.738	7.732	(0.912)	854326	86.7134	86.7	
47 Acenaphthylene	152	8.308	8.308	(0.979)	1017022	95.8927	95.9	
51 Acenaphthene (ccc)	153	8.520	8.520	(1.004)	656088	93.4916	93.5	
53 Dibenzofuran	168	8.720	8.719	(1.028)	938278	95.9375	95.9	
56 Fluorene	166	9.078	9.078	(1.070)	790751	97.6565	97.6	
66 Phenanthrene	178	9.918	9.912	(1.002)	1255743	93.6649	93.7	
67 Anthracene	178	9.953	9.953	(1.006)	1249535	96.0652	96.1	
70 Fluoranthene (ccc)	202	10.788	10.788	(1.090)	1460883	105.732	106	
84 Benzidine	184	10.876	10.870	(1.099)	1599479	182.533	182 (A)	
71 Pyrene	202	10.941	10.940	(0.917)	1528681	101.313	101	
116 p-(dimethylamino)azobenzene	120	11.140	11.146	(1.126)	408823	107.445	107	
117 o-tolidine	212	11.399	11.399	(1.152)	977776	115.579	116	
200 3,3'-Dimethoxybenzidine	244	11.851	11.851	(0.994)	408738	111.694	112	
73 Benzo(a)Anthracene	228	11.916	11.916	(0.999)	1350167	102.198	102	
75 Chrysene	228	11.957	11.957	(1.002)	1371331	97.3071	97.3	
119 7,12-dimethylbenz(a)anthracen	256	13.232	13.226	(1.109)	466956	70.5317	70.5	
78 Benzo(b)fluoranthene	252	13.244	13.238	(0.956)	1418448	110.314	110	
79 Benzo(k)fluoranthene	252	13.279	13.279	(0.958)	1393204	89.9139	89.9	
85 Benzo(e)pyrene	252	13.679	13.673	(0.987)	1309270	101.737	102	
80 Benzo(a)pyrene (ccc)	252	13.767	13.761	(0.994)	1306154	92.2486	92.2	
196 Perylene	252	13.908	13.908	(1.004)	1278768	98.7261	98.7	
120 3-methylcholanthrene	268	14.372	14.372	(1.037)	690706	89.7870	89.8	
81 Indeno(1,2,3-cd)pyrene	276	15.330	15.330	(1.106)	1436775	102.280	102	
82 Dibenz(a,h)anthracene	278	15.353	15.353	(1.108)	1120512	97.5034	97.5	
83 Benzo(g,h,i)perylene	276	15.665	15.664	(1.131)	1205596	97.2786	97.3	
201 Dibenzo(a,e)pyrene	302	17.997	17.997	(1.299)	1003903	94.6340	94.6	

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

R - Spike/Surrogate failed recovery limits.

KEM 7/28/11

Data File: /var/chem/gcms/md.i/D072711.b/mk2dq1ad.d

Report Date: 28-Jul-2011 10:42

TestAmerica Knoxville

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: md.i

Lab File ID: mk2dq1ad.d

Lab Smp Id: MK2DQ1AD

Analysis Type: SV

Quant Type: ISTD

Operator: 60841

Method File: /chem/gcms/md.i/D072711.b/8270a9.m

Misc Info: D072711,8270a9,ICR.sub

Calibration Date: 27-JUL-2011

Calibration Time: 16:02

Client Smp ID: INTRA-LAB CHECK

Level: LOW

Sample Type: AIR

COMPOUND =====	STANDARD =====	AREA LIMIT		SAMPLE =====	%DIFF =====
		LOWER =====	UPPER =====		
1 1,4-Dichlorobenze	44395	22198	88790	49088	10.57
2 Naphthalene-d8	182374	91187	364748	202105	10.82
3 Acenaphthene-d10	111075	55538	222150	124337	11.94
4 Phenanthrene-d10	217977	108988	435954	250258	14.81
5 Chrysene-d12	247793	123896	495586	266436	7.52
6 Perylene-d12	221015	110508	442030	256277	15.95

COMPOUND =====	STANDARD =====	RT LIMIT		SAMPLE =====	%DIFF =====
		LOWER =====	UPPER =====		
1 1,4-Dichlorobenze	4.30	3.80	4.80	4.30	0.00
2 Naphthalene-d8	5.89	5.39	6.39	5.89	0.00
3 Acenaphthene-d10	8.48	7.98	8.98	8.48	0.00
4 Phenanthrene-d10	9.89	9.39	10.39	9.89	0.00
5 Chrysene-d12	11.93	11.43	12.43	11.93	0.00
6 Perylene-d12	13.85	13.35	14.35	13.85	0.00

AREA UPPER LIMIT = +100% of internal standard area.

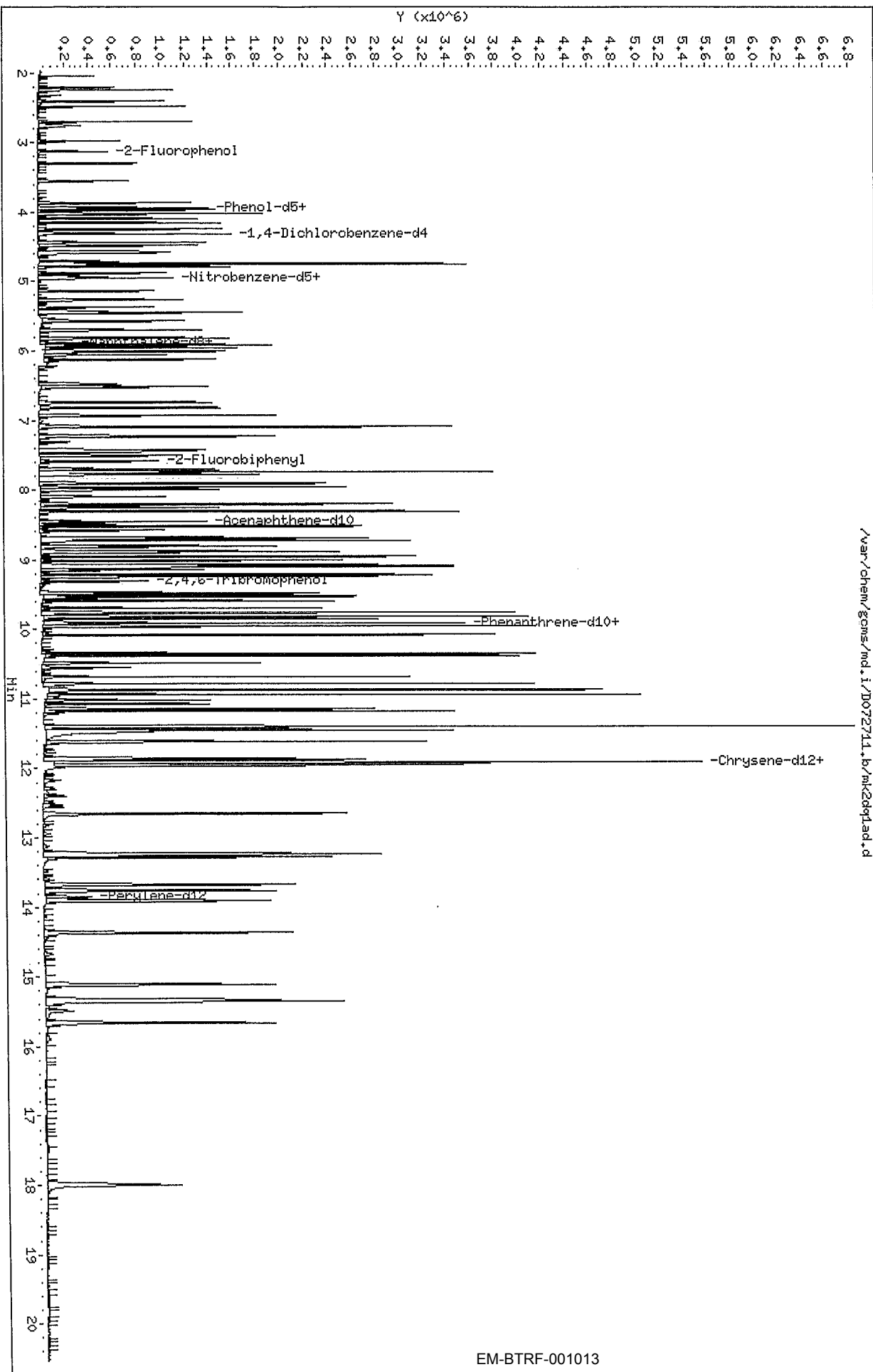
AREA LOWER LIMIT = - 50% of internal standard area.

RT UPPER LIMIT = + 0.50 minutes of internal standard RT.

RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /var/chem/gcms/md.i/D072711.b/mk2d91ad.d
Date: 27-JUL-2011 21:09
Client ID: INTRA-LAB CHECK
Sample Info: MK2DQ1AD,3,DUP,
Volume Injected (uL): 1.0
Column phase: Rxi-5 Sil MS

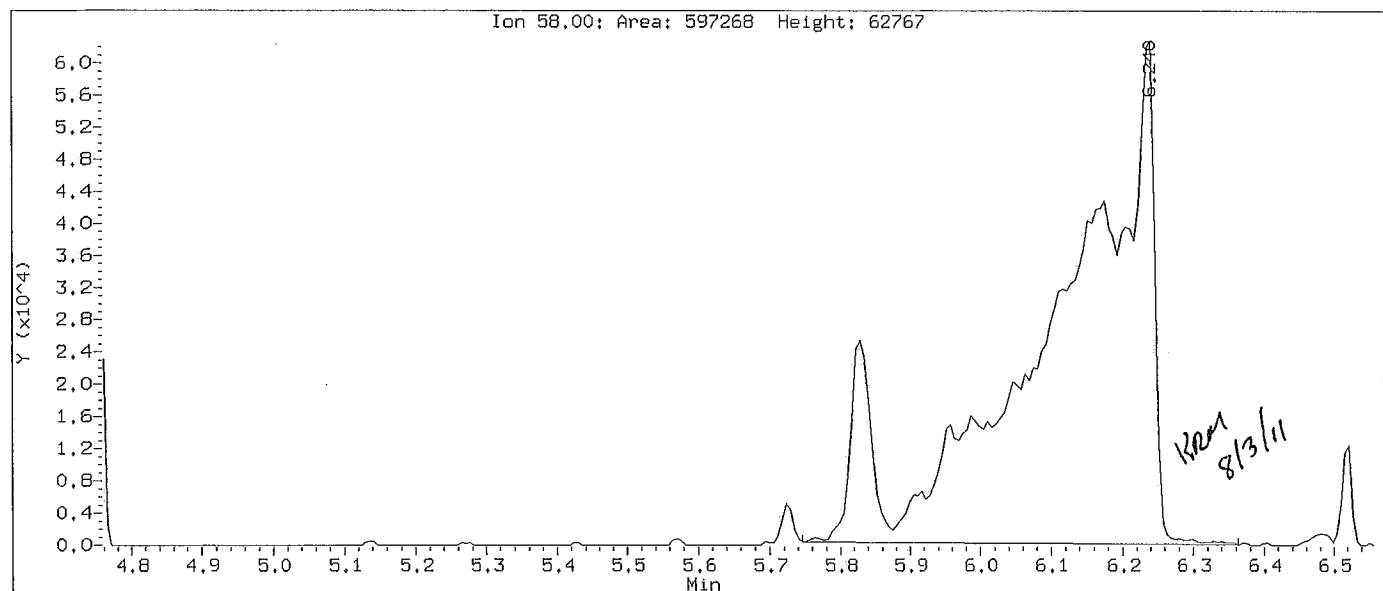
Instrument: md.i
Operator: 60841
Column diameter: 0.25



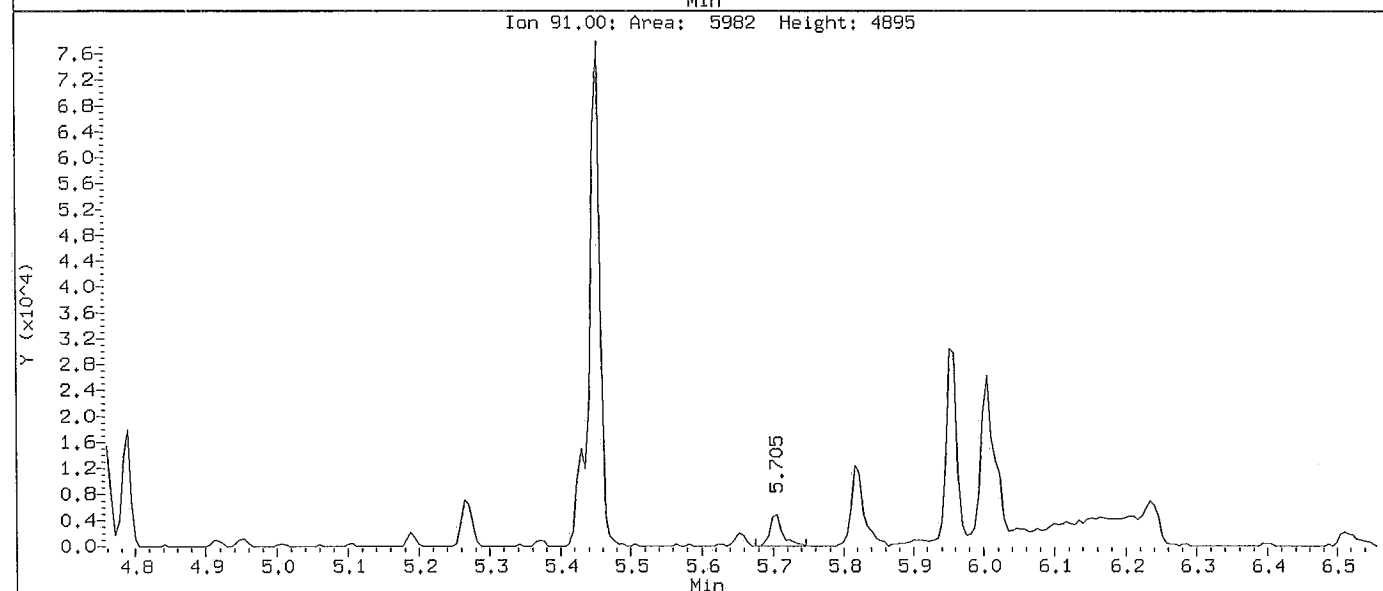
Data File: /var/chem/gcms/md,i/D072711,b/mk2dq1ad,d
Injection Date: 27-JUL-2011 21:09
Instrument: md,i
Client Sample ID: INTRA-LAB CHECK

Compound: Phentermine
CAS Number: 122-09-8

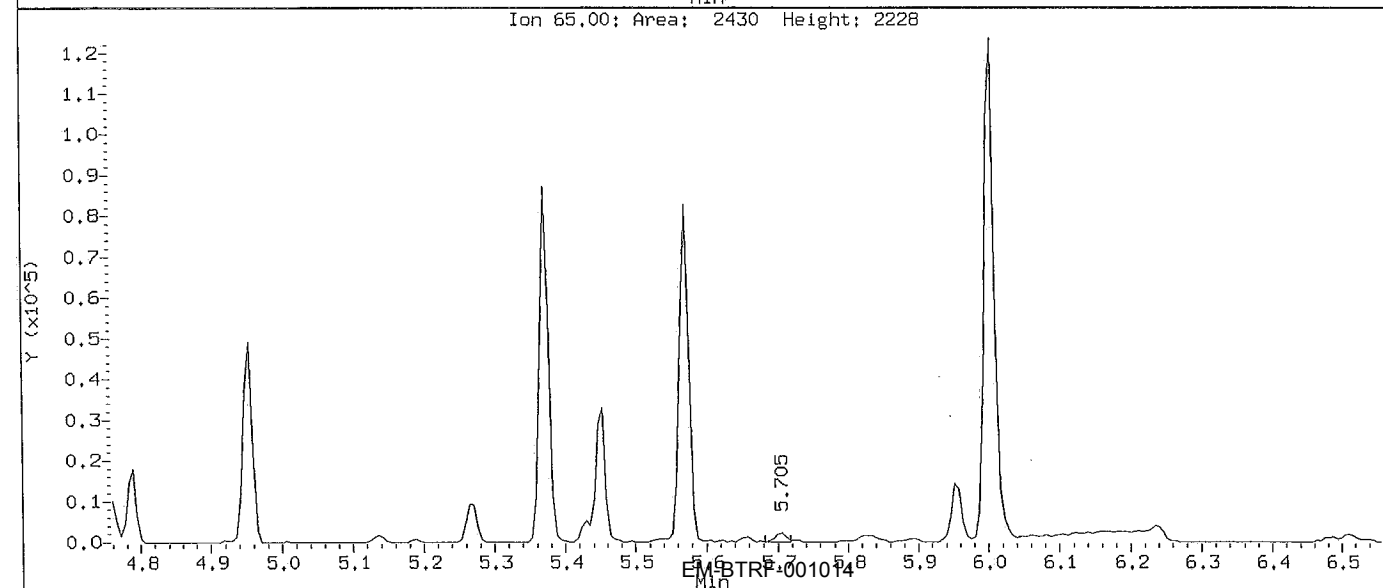
Ion 58.00: Area: 597268 Height: 62767



Ion 91.00: Area: 5982 Height: 4895



Ion 65.00: Area: 2430 Height: 2228



Miscellaneous Data

TestAmerica Knoxville Semivolatile GC/MS Data Review / Narrative Checklist Lot/Project# H1G190403
Method 8270C - KNOX-MS-0016, Rev 11 & Method TO-13A Mod - KNOX-MS-0017, Rev 4 Page 1 of 2

Instrument:	MD					
Scanned File Names:	D072611I D072711					
Review Items						
A. Tune / Calibration	N/A	Yes	No	If No, why is data reportable?	2nd <input type="checkbox"/>	
1. Were all samples injected within 12 hr of DFTPP?		✓			✓	
2. Has a Continuing Calibration Checklist been completed for each analytical batch?		✓			✓	
3. Was the correct ICAL used for quantitation?		✓			✓	
B. Client Sample and QC Sample Results						
1. Were all special project requirements met?		✓			✓	
2. Were prep/dilution/split factors & header information verified?		✓			✓	
3. Was date/time of analysis verified between analysis header and logbook as correct?		✓			✓	
4. Were the analytes that were not automatically identified in the CCAL searched for manually in the samples?		✓				
5. Sample prep and analyses done within preparation and analytical holding time (HT)? If no, list samples and NCM #: _____		✓		<input type="checkbox"/> [ht1] HT expired upon receipt. <input type="checkbox"/> [ht2] Client requested analysis after HT expired.* <input type="checkbox"/> Re-extraction done after HT expired. See [sur4] or[sur2]	✓	
6. Are surrogates and internal standards within QC limits? If no, list samples, reason (e.g., sur1) and NCM #: _____				<input type="checkbox"/> [sur1] MS/MSD surr.%R demonstrated same effect. <input type="checkbox"/> [sur2] Re-extraction demonstrated same effect. <input type="checkbox"/> [sur3] Not enough sample for re-extraction. <input type="checkbox"/> [sur4] Re-extraction done outside HT. Rerun shows original %R were wrong; both data reported. <input type="checkbox"/> [sur5] Upon client approval, data was flagged as estimated & released without further investigation.* <input type="checkbox"/> [sur7] Obvious matrix interference. Explain: _____ <input type="checkbox"/> [hydr1] H-D exchange; sample reextracted. <input type="checkbox"/> [hydr2] H-D exchange; affected analytes reported on diluted analysis <input type="checkbox"/> [sur12] Surr.%R high and all targets ND. <input type="checkbox"/> [sur13] Surr.%R low. Sample consumed. <input type="checkbox"/> [sur14] Surr.%R high. Sample consumed. <input type="checkbox"/> [isc1] Samples bracketed by acceptable runs.		
Sample Reason Sample Reason _____ _____ _____ _____ _____ _____ _____ _____ _____		✓				
6. Are internal standards <0.5min of last CCAL?		✓			✓	
7. Were positive hits evaluated using qualitative identification criteria and technical judgment?		✓			✓	
8. Are positive results within calibration range? If no, list samples: _____		✓		<input type="checkbox"/> [dil5] At client's request, sample was analyzed with minimum dilution even though some analytes were outside of calibration range.*	✓	
9. For initial analysis that's a dilution, was the largest analyte > 20% of calibration range? List diluted samples and reason (e.g., elev1): Sample(s) Reason		✓		<input type="checkbox"/> [elev1] Elevated RL for (ANALYTE) due to sample matrix interferences. <input type="checkbox"/> [elev2] Elevated RL for (ANALYTE) due to interfering analyte. <input type="checkbox"/> [elev3] Elevated RLs for all analytes due to difficult sample matrix. <input type="checkbox"/> [elev4] Diluted based on screening results. <input type="checkbox"/> [elev5] Elevated RLs for all analytes due to presence of non-target compounds.	ms	
_____ _____ _____ _____ _____ _____ _____ _____ _____						

* Such action must be taken in consultation with client.

MS029r24.doc, 071111

NOTE: Nonconformance memos are required for **bold** and *italicized* autotext statements: **Bold** = deficiency, *italicized* = anomaly.

EM-BTRF-001016

TestAmerica Knoxville Semivolatile GC/MS Data Review / Narrative Checklist Lot/Project# H1G190403
 Method 8270C - KNOX-MS-0016, Rev 11 & Method TO-13A Mod – KNOX-MS-0017, Rev 4 Page 2 of 2

B. Client Sample and QC Sample Results	N/A	Yes	No	If No, why is data reportable?	2nd □														
10. If amount extracted was < 80% of nominal amount, were the RLs/MDLs adjusted? List samples:	✓			<input type="checkbox"/> [elev6] Elevated RLs for all analytes due to insufficient sample amount received.	ms														
11. If samples were split, are the dilution factors & prep factors applied properly & MDL/RLs adjusted?		✓		<input checked="" type="checkbox"/> [elev7] Elevated RLs for all analytes due to split; list samples: <u>All samples</u>	✓														
12. For secondary diluted analyses to bring compounds in calibration range, was the largest analyte targeted to be above 50% of calibration range? List diluted samples and reason (e.g., dil1): Sample Reason Sample Reason	✓			<input type="checkbox"/> [dil1] Conc. of (ANALYTE) > calibration range. RLs adjusted accordingly. <input type="checkbox"/> [dil2] Conc. of several compounds > calibration range. RLs adjusted accordingly. <input type="checkbox"/> [dil3] Conc. of (ANALYTE) > calibration range. Both analyses reported to provide lowest RLs. <input type="checkbox"/> [dil4] Conc. of several compounds > calibration range. Both analyses reported to provide lowest RLs.	ms														
13. If manual integrations were performed, are they clearly identified, initialed, dated and reason given?		✓		Reasons: 1)Corrected split peak; 2)Unresolved peak; 3)tailg; 4)RT shift; 5)wrong peak selected; 6)other	✓														
14. Have alternate hits and manual integrations been verified as correct?		✓			✓														
C. Preparation/Matrix QC																			
1. 8270: LCS done per batch and meet criteria with a limited # marginal exceedances allowed (see table) and no two consecutive MEs. <table border="1"> <thead> <tr> <th>Number of target analytes in LCS</th> <th># marginal exceedances of LCS control limits allowed</th> </tr> </thead> <tbody> <tr><td>>90</td><td>5</td></tr> <tr><td>71 - 90</td><td>4</td></tr> <tr><td>51 - 70</td><td>3</td></tr> <tr><td>31 - 50</td><td>2</td></tr> <tr><td>11 - 30</td><td>1</td></tr> <tr><td><11</td><td>0</td></tr> </tbody> </table> --For TO-13: LCS done per batch within method QC limits	Number of target analytes in LCS	# marginal exceedances of LCS control limits allowed	>90	5	71 - 90	4	51 - 70	3	31 - 50	2	11 - 30	1	<11	0				<input type="checkbox"/> [lcs2] Insufficient sample for reanalysis.* <input type="checkbox"/> [lcs3] LCS %R high and all analyte(s) were <RL in associated samples. <input type="checkbox"/> [lcs4] Entire sample consumed. <input type="checkbox"/> [lcs5] LCS outside marginal exceedances high, but analytes were not detected <input type="checkbox"/> [lcs6] LCS analyte(s) flagged as being outside control limits but within marginal limits <input type="checkbox"/> [lcs RPD] RPD out, BUT % R OK.	✓
Number of target analytes in LCS	# marginal exceedances of LCS control limits allowed																		
>90	5																		
71 - 90	4																		
51 - 70	3																		
31 - 50	2																		
11 - 30	1																		
<11	0																		
2. Method blank done per prep batch and method blank or instrument blank analyzed with each sequence?		✓			✓														
3. Method blank surrogate recoveries within QC limits?		✓		<input type="checkbox"/> [mb1] Sample surrogates OK and there is no analyte >RL in samples associated with blank.* <input type="checkbox"/> [mb7] Entire sample consumed.	✓														
4. Are all analytes present in the method blank < RL? If no, list blank ID and NCM #: _____		✓		<input type="checkbox"/> [mb3] No analyte > RL in associated samples.* <input type="checkbox"/> [mb4] Sample results > 20x higher than blank. <input type="checkbox"/> [mb5] Insufficient sample for reanalysis.* <input type="checkbox"/> [mb8] Entire sample consumed.	✓														
5. MS/MSD (or LCSD for TO13A) done per batch? Batch: <u>1201076</u>			✓	<input checked="" type="checkbox"/> [lcsd] Insufficient sample. LCS/LCSD analyzed. <input type="checkbox"/> [lcsd1] LCS/LCSD ana for method precision(TO-13)	✓														
6. If MS/MSD was done on this client's sample or for reported batch QC, were the MS/MSD recoveries and RPDs within laboratory generated QC limits? If no, list MS/MSD ID: _____	✓			<input type="checkbox"/> [ms1] LCS acceptable - sample matrix effects. <input type="checkbox"/> [ms2] LCS acceptable. High native analyte concentration relative to spike level. <input type="checkbox"/> [rpd] LCS acceptable. RPD out due to lack of sample homogeneity.	ms														
7. Were MS run #'s assigned correctly?	✓				ms														
D. Other																			
1. Final report acceptable? (Results correct, RLs calculated correctly, units correct, surrogate %R correct, appropriate flags used, dilution factor correct, and extraction/ analysis dates correct.)		✓			✓														
2. Are all nonconformances documented appropriately and copy included with deliverable?	✓				ms														
3. Are the correct scanned file names listed at the top of the data review checklist?		✓			✓														
4. Were the standards scanned properly with runlogs?		✓			✓														
5. Was a narrative prepared and all deviations noted?		✓			✓														

Analyst: <u>KRM</u>	Date: <u>8/3/11</u>	2 nd Level Reviewer: <u>[Signature]</u>	Date: <u>8/23/11</u>
□ see following page for comments			

* Such action must be taken in consultation with client.

Method 0010 Split/Combined Air Train for Semivolatiles and SIM PAHs - KNOX-OP-0009

Start Date/Time: 7/21/11 1615 Alternate Surrogate ID: PAH 0355 H₂SO₄ ID: A4022-12
 Compl Date/Time: 7/22/11 1115 MeCl₂ Lot #: K07503 NaOH ID: D4285-11
 Start Date/Time: 7/22/11 1400 Na₂SO₄ ID: D4286-11 DWS 7/21/11
 Compl Date/Time: 7/23/11 08120 Spiker DWS witness J. D. M. DWS 7/21/11

Lot Number	Sample Number	Work Order	Suffix	SAC	Pour FH/BH extract into CLE. Add condensate to CLE. Pour all rinses thru condensate.	Record sample pH.	Add 2.0 mL (0.25 µg/mL) Alternate Sur to all samples & blank. Add 1.0 mL to PAH LCS/LCSD.	Adjust pH to 0<PH<2 with 1:1 H ₂ SO ₄ . Record pH.	Extract 18-24 hr with MeCl ₂ .	Adjust pH to 11<PH<14 with 10N NaOH. Record pH.	Extract 18-24 hr with MeCl ₂ .	Filter extracts thru Na ₂ SO ₄ /Whatman 41 filter paper to 500 mL KD.	Concentrate to 4 to 6 mL in KD.	Split extract 50:50 for SVOCs and SIM PAHs.
H1G190403	1	MK09P1AA/MK09P1AC		QLYA	✓	7	2.0mL	2	✓	12	✓			✓
H1G190403	2	MK09Q1AA/MK09Q1AC		QLYA	✓	7		2	✓	12				
H1G190403	3	MK09R1AA/MK09R1AC		QLYA	✓	7		2	✓	12				
H1G190403	4	MK09T1AA/MK09T1AC		QLYA	✓	NA	✓	2	✓	12				
H1G190403	5	MK09V1AA/MK09V1AC		QLYA	✓	✓	NA	NA	NA	NA	NA			
H1G200446	1	MK2HW1AA/MK2HW1AC		QLYA	✓	6	2.0mL	2	✓	12	✓			
H1G200446	2	MK2H01AA/MK2H01AC		QLYA	✓	6		2	✓	12				
H1G200446	3	MK2H11AA/MK2H11AC		QLYA	✓	6		2	✓	12				
H1G200446	4	MK2H21AA/MK2H21AC		QLYA	✓	NA	✓	2	✓	12				
H1G200446	8	MK2H61AA/MK2H61AC		QLYA	✓	NA	NA	NA	NA	NA	NA			
H1G200000	76	MK2DQ1AA	B	QL	✓	1	2.0mL	2	✓	12	✓			✓
H1G200000	76	MK2DQ1AC	C	QL	✓	1	NA	2	✓	12				NA
H1G200000	76	MK2DQ1AD	L	QL	✓	1	✓	2	✓	12				✓
H1G200000	79	MK2D01AA	B	YA	✓	1	2.0mL	2	✓	12				✓
H1G200000	79	MK2D01AC	C	YA	✓	1	1.0mL	2	✓	12				NA
H1G200000	79	MK2D01AD	L	YA	✓	1	✓	2	✓	12	✓			✓
					✓	DWS 7/21/11	DWS 7/21/11	DWS 7/21/11	DWS 7/21/11	DWS 7/21/11	DWS 7/21/11	DWS 7/21/11	DWS 7/21/11	DWS 7/21/11

Comments: All sample had neutral "pH" at approx 8 ml

Method 0010 Split/Combined Air Train for Semivolatiles and SIM PAHs - KNOX-OP-0009

[illegible][illegible][illegible]

Comments:

Run Date: 7/27/11
Time: 13:46:10

TestAmerica Laboratories, Inc.
EXTRACTION BENCH WORKSHEET

RQC058

* QC BATCH: 1201076 *
* PREP DATE: 7/20/11 17:00
* COMP DATE: 7/27/11 14:00

EXTR EXPR	ANL DUE	LOT#,MSRUN#/ WORK ORDER	TEST FLGS	EXT	MTH	MATRIX	INIT/FIN WT/VOL	PH"S ADJ1	ADJ2	EXTRACTION VOL	SOLVENTS VOL	EXCHANGE VOL	SPIKE STANDARD/ SURROGATE ID
7/21/11	0/00/00	H1G200000-076 MK2DQ-1-ADL	R	IP	QL	AIR	1.0sample 1.00mL	NA	NA	MECL2	400.0	400.0	.0 EM3061&EM3062 1.0ML EA OP70308 0.5ML
COMMENTS: OP70315 1.0ML													
7/25/11	8/08/11	H1G200446-001 MK2HW-1-AA	D	IP	QL	AIR	1.0sample 2.00mL	NA	NA	MECL2	400.0	400.0	.0 OP70308 1.0ML
COMMENTS:													
7/26/11	8/08/11	H1G200446-002 MK2H0-1-AA	D	IP	QL	AIR	1.0sample 1.00mL	NA	NA	MECL2	400.0	400.0	.0 OP70308 1.0ML
COMMENTS:													
7/26/11	8/08/11	H1G200446-003 MK2H1-1-AA	D	IP	QL	AIR	1.0sample 2.00mL	NA	NA	MECL2	400.0	400.0	.0 OP70308 1.0ML
COMMENTS:													
7/25/11	8/08/11	H1G200446-004 MK2H2-1-AA	D	IP	QL	AIR	1.0sample 10.00mL	NA	NA	MECL2	400.0	400.0	.0 OP70308 1.0ML
COMMENTS:													
7/25/11	8/08/11	H1G200446-008 MK2H6-1-AA	D	IP	QL	AIR	1.0sample 1.00mL	NA	NA	MECL2	400.0	400.0	.0 OP70308 1.0ML
COMMENTS:													

ALL SAMPLES HAD NEUTRAL "PH" AT APPROX. 8ML. ADDED 1.0ML OF EM3061 AND 1.0ML
OF EM3062 TO LCS AND LCS DUP.

R = RUSH C = CLP
E = EPA 600 D = EXP.DEL) 13
M = CLIENT REQ MS/MSD

TestAmerica Knoxville Prep Batch Review Checklist

Batch # 1201076

Review Items	N/A	Yes	No	If No, why is data reportable?	2nd Level
1. Were the samples extracted within the required holding times?		✓		If No, NCM #: _____	✓
2. Are the final extracts free of water, precipitates, multiple phases, and for HRMS - color?		✓			✓
3. Were all project specific requirements met as noted on the Lot Checklists (L40) and the Sample List report?		✓			✓
4. Were MS Run numbers assigned properly?	✓				✓
5. Were the correct weights and volumes entered into QuantIMS for all samples and QC?		✓			✓
6. Was the correct completion date entered into QuantIMS?		✓			✓
7. Were the spike IDs and volumes entered correctly into QuantIMS?		✓			✓
8. Were all appropriate notes and observations recorded on the extraction benchsheet and in QuantIMS?		✓			✓
9. Was the extraction batch reviewed in QuantIMS using LIM L21?		✓			✓
10. Does the prep batch paperwork package contain all required documentation which has been properly and completely filled out, including: <ul style="list-style-type: none"> Extraction Benchsheet QuantIMS Benchsheet Lot Checklists (L40) for all lots in batch Sample List Compound List Report SOG Sample Tracking Sheet 	✓	✓ ✓ ✓ ✓ ✓ ✓			✓
11. Are all nonconformances documented appropriately and copy included with deliverable?	✓			If Yes, NCM#: _____	✓
Analyst : <u>JGm</u> Date: <u>7/27/11</u>					
Comments:					
2nd Level Reviewer: <u>mjr</u> Date: <u>7/27/11</u>					
Comments:					

SIM PAH

Raw Sample Data

TRC Environmental Corporation

Client Sample ID: EXM-SRU-M0010-R1-COMBINED

GC/MS Semivolatiles

Lot-Sample #....: H1G190403-001 Work Order #....: MK09P1AC Matrix.....: AIR
 Date Sampled....: 07/07/11 Date Received...: 07/19/2011
 Prep Date.....: 07/20/11 Analysis Date...: 07/29/2011
 Prep Batch #....: 1201079
 Dilution Factor: 2 Method.....: KNOX ID-0016

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Acenaphthene	280	40	ng/sample	9.8
Acenaphthylene	32 J	40	ng/sample	4.8
Anthracene	150	20	ng/sample	7.6
Benzo(a)anthracene	ND	20	ng/sample	7.6
Benzo(b)fluoranthene	67 J	200	ng/sample	60
Benzo(k)fluoranthene	ND	200	ng/sample	86
Benzo(ghi)perylene	31	20	ng/sample	10
Benzo(a)pyrene	28	20	ng/sample	5.8
Benzo(e)pyrene	130	20	ng/sample	11
Chrysene	12000 E, CI	20	ng/sample	5.0
Dibenz(a,h)anthracene	10 J	20	ng/sample	7.8
Fluoranthene	530	20	ng/sample	13
Fluorene	2200	20	ng/sample	8.2
Indeno(1,2,3-cd)pyrene	13 J	20	ng/sample	5.2
2-Methylnaphthalene	1500	100	ng/sample	42
Naphthalene	16000 E	800	ng/sample	500
Perylene	20	20	ng/sample	6.2
Phenanthrene	6700 E	60	ng/sample	48
Pyrene	4300 CI	120	ng/sample	72

Internal Standard	PERCENT RECOVERY		RECOVERY LIMITS
Fluorene d-10	108		(50 - 150)
Terphenyl-d14	133		(50 - 150)
13C6-Fluorene	96		(50 - 150)
Anthracene-d10	98		(30 - 120)
Naphthalene-d8	57		(30 - 120)
2-Methylnaphthalene-d10	86		(30 - 120)
1-Methylnaphthalene-d10	79		(30 - 120)
Acenaphthylene-d8	110		(30 - 120)
Phenanthrene-d10	82		(30 - 120)
2,6-Dimethylnaphthalene-d12	97		(30 - 120)
Fluoranthene-d10	99		(30 - 120)
Benzo(a)anthracene-d12	154 *		(30 - 120)
Chrysene-d12	81		(30 - 120)
Benzo(b)fluoranthene-d12	121 *		(30 - 120)
Benzo(k)fluoranthene-d12	80		(30 - 120)
Benzo(a)pyrene-d12	109		(30 - 120)
Perylene-d12	98		(30 - 120)
Indeno(1,2,3-cd)pyrene-d12	107		(30 - 120)
Dibenz(ah)anthracene-d14	103		(30 - 120)
Benzo(ghi)perylene-d12	97		(30 - 120)

TRC Environmental Corporation

Client Sample ID: EXM-SRU-M0010-R1-COMBINED

GC/MS Semivolatiles

Lot-Sample #...: H1G190403-001 Work Order #...: MK09F1AC Matrix.....: AIR

NOTE(S) :

1 13C6-Anthracene = 83 %

* Surrogate recovery is outside stated control limits.

CI See narrative.

E Estimated result. Result concentration exceeds the calibration range.

J Estimated result. Result is less than RL.

Data File: /var/chem/gcms/mp.i/P072911.b/mk09p1ac.d

Report Date: 05-Aug-2011 11:40

TestAmerica Knoxville

SEMIVOLATILE QUANTITATION REPORT

Data file : /var/chem/gcms/mp.i/P072911.b/mk09p1ac.d
 Lab Smp Id: MK09P1AC Client Smp ID: EXM-SRU-M0010-R1-CO
 Inj Date : 29-JUL-2011 15:54
 Operator : 11211 Inst ID: mp.i
 Smp Info : , , 0 , , ,
 Misc Info : P072911, SIMPAH3
 Comment :
 Method : /var/chem/gcms/mp.i/P072911.b/SIMPAH3.m
 Meth Date : 04-Aug-2011 19:00 cochranj Quant Type: ISTD
 Cal Date : 26-JUL-2011 20:15 Cal File: pg26ic07.d
 Als bottle: 13
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: pah.sub
 Target Version: 3.50
 Processing Host: qmidhp01

Concentration Formula: Amt * DF * Sf * Vt / Vo * CpndVariable

Name	Value	Description
DF	1.00000 ✓	Dilution Factor
Sf	2.00000 ✓	Split factor
Vt	500.00000	Volume of final extract (uL)
Vo	1.00000	Volume of sample extracted (sample)

Cpnd Variable

Local Compound Variable

WR: S

Compounds	QUANT SIG	MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN (ug/ml)	FINAL (ng/sample)
* 1 Naphthalene-d8	=====	136	4.873	4.865	(1.000)	427852	0.50000	0.500
\$ 2 Naphthalene-d8 (SS)	=====	136	4.873	4.865	(0.770)	427852	0.28557	286
3 Naphthalene	=====	128	4.880	4.880	(1.002)	1845962	2.54227	2540 S/SNRE
\$ 222 13C6-Naphthalene	=====	134	4.891	4.880	(1.004)	5543	0.00705	7.05 (R)
* 10 2-Methylnaphthalene-d10	=====	152	5.424	5.424	(1.000)	345924	0.50000	0.500
\$ 11 2-Methylnaphthalene-d10 (SS)	=====	152	5.424	5.424	(0.858)	345924	0.42790	428
12 2-Methylnaphthalene	=====	142	5.450	5.450	(1.005)	1073723	1.54073	1540
* 13 1-Methylnaphthalene-d10	=====	152	5.507	5.503	(1.000)	316752	0.50000	0.500
\$ 14 1-Methylnaphthalene-d10 (SS)	=====	152	5.507	5.503	(0.871)	316752	0.39418	394
15 1-Methylnaphthalene	=====	142	5.536	5.533	(1.005)	557850	0.90770	908
16 Biphenyl	=====	154	5.813	5.835	(1.072)	2124	0.00257	2.57 S/SNRE
* 17 2,6-Dimethylnaphthalene-d12	=====	168	5.935	5.933	(1.000)	334161	0.50000	0.500
\$ 18 2,6-Dimethylnaph-d12 (SS)	=====	168	5.935	5.933	(0.938)	334161	0.48456	485
19 2,6 Dimethylnaphthalene	=====	156	5.976	5.969	(1.007)	532001	0.79880	799

Data File: /var/chem/gcms/mp.i/P072911.b/mk09plac.d
Report Date: 05-Aug-2011 11:40

Compounds	QUANT SIG						CONCENTRATIONS	
	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN	FINAL	
						(ug/ml)	(ng/sample)	
=====	=====	==	=====	=====	=====	=====	=====	
* 20 Acenaphthylene-d8	160	6.194	6.194	(1.000)	621087	0.50000	0.500	
\$ 21 Acenaphthylene-d8 (SS)	160	6.194	6.194	(0.979)	621087	0.55103	551	
22 Acenaphthylene	152	6.205	6.202	(1.002)	40470	0.03232	32.3	
* 23 Acenaphthene-d10	164	6.325	6.325	(1.000)	318565	0.50000	0.500	
24 Acenaphthene	154	6.353	6.350	(1.026)	206152	0.27566	276	
25 2,3,5 Trimethylnaphthalene	170	6.669	6.669	(1.124)	182002	0.32762	328	
\$ 26 Fluorene-d10	176	6.761	6.758	(0.892)	648385	1.07787	1080	
27 Fluorene	166	6.783	6.783	(0.895)	1686169	2.16769	2170	
\$ 28 13C6-Fluorene	171	6.783	6.781	(0.895)	643300	0.95818	958	
* 34 Dibenzothiophene-d8	192	7.476	7.474	(1.000)	584522	0.50000	0.500	
\$ 35 Dibenzothiophene-d8 (SS)	192	7.476	7.474	(0.841)	584522	0.42873	429	
36 Dibenzothiophene	184	7.493	7.489	(1.002)	6594115	5.91418	5910 E	
* 41 Phenanthrene-d10	188	7.580	7.578	(1.000)	507372	0.50000	0.500	
\$ 42 Phenanthrene-d10 (SS)	188	7.580	7.578	(0.853)	507372	0.41248	412	
43 Phenanthrene	178	7.598	7.597	(1.002)	7480729	6.71536	6720 E	
* 44 Anthracene-d10	188	7.628	7.626	(1.000)	510583	0.50000	0.500	
\$ 45 Anthracene-d10 (SS)	188	7.628	7.626	(0.858)	510583	0.49156	492	
46 Anthracene	178	7.644	7.642	(1.002)	199402	0.15177	152	
\$ 47 13C6-Anthracene	184	7.644	7.642	(0.860)	468754	0.41635	416	
52 1-Methylphenanthrene	192	8.145	8.143	(1.075)	77016	0.11510	115	
* 53 Fluoranthene-d10	212	8.667	8.665	(1.000)	564676	0.50000	0.500	
\$ 54 Fluoranthene-d10 (SS)	212	8.667	8.665	(0.975)	564676	0.49289	493	
55 Fluoranthene	202	8.687	8.683	(1.002)	672466	0.52927	529	
* 56 Pyrene-d10	212	8.889	8.885	(1.000)	467027	0.50000	0.500	
57 Pyrene	202	8.945	8.904	(1.032)	5789829	4.30915	4310	
\$ 58 Terphenyl-d14	244	9.050	9.043	(1.044)	772228	1.33472	1330 (R)	✓
* 60 Benzo(a)anthracene-d12	240	10.104	10.100	(1.000)	438846	0.50000	0.500	
\$ 61 Benzo(a)anthracene-d12 (SS)	240	10.104	10.100	(1.137)	438846	0.77039	770 (R)	
62 Benzo(a)anthracene	228	10.100	10.121	(1.000)	2289	0.00163	1.63	
* 63 Chrysene-d12	240	10.137	10.133	(1.000)	404488	0.50000	0.500	
\$ 64 Chrysene-d12 (SS)	240	10.137	10.133	(1.140)	404488	0.40473	405	
65 Chrysene	228	10.154	10.163	(1.002)	10926571	12.3746	12400 E	88k
* 70 Benzo(b)fluoranthene-d12	264	11.259	11.253	(1.000)	416632	0.50000	0.500	
\$ 71 Benzo(b)fluoranthene-d12 (SS)	264	11.259	11.253	(0.973)	416632	0.60300	603 (R)	
72 Benzo(b)fluoranthene	252	11.283	11.277	(1.002)	90505	0.07394	73.9 SNR	
* 73 Benzo(k)fluoranthene-d12	264	11.289	11.289	(1.000)	392503	0.50000	0.500	
\$ 74 Benzo(k)fluoranthene-d12 (SS)	264	11.289	11.289	(0.975)	392501	0.39803	398	
75 Benzo(k)fluoranthene	252	11.283	11.307	(0.999)	89105	0.10369	104 SNR	
* 76 Benzo(e)pyrene-d12	264	11.575	11.570	(1.000)	327635	0.50000	0.500	
77 Benzo(e)pyrene	252	11.605	11.600	(0.997)	137035	0.13059	131	
* 78 Benzo(a)pyrene-d12	264	11.641	11.635	(1.000)	386166	0.50000	0.500	
\$ 79 Benzo(a)pyrene-d12 (SS)	264	11.641	11.635	(1.006)	386047	0.54646	546	
80 Benzo(a)pyrene	252	11.665	11.665	(1.002)	24736	0.02823	28.2	
* 81 Perylene-d12	264	11.737	11.737	(1.000)	346555	0.50000	0.500	
\$ 82 Perylene-d12 (SS)	264	11.737	11.737	(1.014)	346555	0.49186	492	
83 Perylene	252	11.767	11.761	(1.003)	17907	0.02051	20.5	
* 84 Indeno(123-cd)pyrene-d12	288	13.110	13.106	(1.000)	430006	0.50000	0.500	

Data File: /var/chem/gcms/mp.i/P072911.b/mk09p1ac.d
 Report Date: 05-Aug-2011 11:40

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN	FINAL
	MASS					(ug/ml)	(ng/sample)
=====	=====	==	=====	=====	=====	=====	=====
\$ 85 Indeno(123-cd)pyrene-d12 (SS)	288	13.110	13.106	(1.133)	430006	0.53266	533
86 Indeno(1,2,3-cd)pyrene	276	13.144	13.140	(1.003)	13771	0.01323	13.2
* 87 Dibenz(ah)anthracene-d14	292	13.114	13.110	(1.000)	317958	0.50000	0.500
\$ 88 Dibenz(ah)anthracene-d14 (SS)	292	13.114	13.110	(1.133)	317958	0.51709	517
89 Dibenz(a,h)anthracene	278	13.152	13.157	(1.003)	8124	0.01040	10.4
* 90 Benzo(ghi)perylene-d12	288	13.464	13.460	(1.000)	294482	0.50000	0.500
\$ 91 Benzo(ghi)perylene-d12 (SS)	288	13.464	13.460	(1.163)	294482	0.48539	485
92 Benzo(g,h,i)perylene	276	13.498	13.494	(1.002)	25596	0.03140	31.4

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

Data File: /var/chem/gcms/mp.i/P072911.b/mk09plac.d

Report Date: 05-Aug-2011 13:17

TestAmerica Knoxville

SEMIVOLATILE QUANTITATION REPORT

Data file : /var/chem/gcms/mp.i/P072911.b/mk09plac.d
 Lab Smp Id: MK09PlAC Client Smp ID: EXM-SRU-M0010-R1-CO
 Inj Date : 29-JUL-2011 15:54
 Operator : 11211 Inst ID: mp.i
 Smp Info : , , 0 , , ,
 Misc Info : P072911, SIMPAH3
 Comment :
 Method : /var/chem/gcms/mp.i/P072911.b/SIMPAH3.m
 Meth Date : 04-Aug-2011 19:00 cochranj Quant Type: ISTD
 Cal Date : 26-JUL-2011 20:15 Cal File: pg26ic07.d
 Als bottle: 13
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: pah.sub
 Target Version: 3.50
 Processing Host: qmidhp01

Concentration Formula: Amt * DF * Sf * Vt / Vo * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Sf	2.00000	Split factor
Vt	500.00000	Volume of final extract (uL)
Vo	1.00000	Volume of sample extracted (sample)

Cpnd Variable

Local Compound Variable

ur: 5

		QUANT					CONCENTRATIONS	
Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN	FINAL	
=====	=====	==	=====	=====	=====	(ug/ml)	(ng/sample)	
* 1 Naphthalene-d8	136	4.873	4.865	(1.000)	427852	0.50000	0.500	
\$ 2 Naphthalene-d8 (SS)	136	4.873	4.865	(0.770)	427852	0.28557	286	
3 Naphthalene	128	4.880	4.880	(1.002)	11335151	15.6109	15600 (M) E	
* 10 2-Methylnaphthalene-d10	152	5.424	5.424	(1.000)	345924	0.50000	0.500	
\$ 11 2-Methylnaphthalene-d10 (SS)	152	5.424	5.424	(0.858)	345924	0.42790	428	
12 2-Methylnaphthalene	142	5.450	5.450	(1.005)	1073723	1.54073	1540 ✓	
* 13 1-Methylnaphthalene-d10	152	5.507	5.503	(1.000)	316752	0.50000	0.500	
\$ 14 1-Methylnaphthalene-d10 (SS)	152	5.507	5.503	(0.871)	316752	0.39418	394	
15 1-Methylnaphthalene	142	5.536	5.533	(1.005)	557850	0.90770	908 ✓	
16 Biphenyl	154	5.835	5.835	(1.076)	8842021	10.6833	10700 (M) E	
* 17 2,6-Dimethylnaphthalene-d12	168	5.935	5.933	(1.000)	334161	0.50000	0.500	
\$ 18 2,6-Dimethylnaph-d12 (SS)	168	5.935	5.933	(0.938)	334161	0.48456	485	
19 2,6 Dimethylnaphthalene	156	5.976	5.969	(1.007)	532001	0.79880	799 ✓	
* 20 Acenaphthylene-d8	160	6.194	6.194	(1.000)	621087	0.50000	0.500	

Data File: /var/chem/gcms/mp.i/P072911.b/mk09plac.d
Report Date: 05-Aug-2011 13:17

Compounds	QUANT SIG					CONCENTRATIONS	
	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/ml)	FINAL (ng/sample)
=====	=====	==	=====	=====	=====	=====	=====
\$ 21 Acenaphthylene-d8 (SS)	160	6.194	6.194	(0.979)	621087	0.55103	551
22 Acenaphthylene	152	6.205	6.202	(1.002)	40470	0.03232	32.3
* 23 Acenaphthene-d10	164	6.325	6.325	(1.000)	318565	0.50000	0.500
24 Acenaphthene	154	6.353	6.350	(1.026)	206152	0.27566	276
25 2,3,5 Trimethylnaphthalene	170	6.669	6.669	(1.124)	182002	0.32762	328
\$ 26 Fluorene-d10	176	6.761	6.758	(0.892)	648385	1.07787	1080
27 Fluorene	166	6.783	6.783	(0.895)	1686169	2.16769	2170
\$ 28 13C6-Fluorene	171	6.783	6.781	(0.895)	643300	0.95818	958
* 34 Dibenzothiophene-d8	192	7.476	7.474	(1.000)	584522	0.50000	0.500
\$ 35 Dibenzothiophene-d8 (SS)	192	7.476	7.474	(0.841)	584522	0.42873	429
36 Dibenzothiophene	184	7.493	7.489	(1.002)	6594115	5.91418	5910 E
* 41 Phenanthrene-d10	188	7.580	7.578	(1.000)	507372	0.50000	0.500
\$ 42 Phenanthrene-d10 (SS)	188	7.580	7.578	(0.853)	507372	0.41248	412
43 Phenanthrene	178	7.598	7.597	(1.002)	7480729	6.71536	6720 E
* 44 Anthracene-d10	188	7.628	7.626	(1.000)	510583	0.50000	0.500
\$ 45 Anthracene-d10 (SS)	188	7.628	7.626	(0.858)	510583	0.49156	492
46 Anthracene	178	7.644	7.642	(1.002)	199402	0.15177	152
\$ 47 13C6-Anthracene	184	7.644	7.642	(0.860)	468754	0.41635	416
52 1-Methylphenanthrene	192	8.145	8.143	(1.075)	77016	0.11510	115
* 53 Fluoranthene-d10	212	8.667	8.665	(1.000)	564676	0.50000	0.500
\$ 54 Fluoranthene-d10 (SS)	212	8.667	8.665	(0.975)	564676	0.49288	493
55 Fluoranthene	202	8.687	8.683	(1.002)	672466	0.52927	529
* 56 Pyrene-d10	212	8.889	8.885	(1.000)	467027	0.50000	0.500
57 Pyrene	202	8.945	8.904	(1.032)	5789829	4.30916	4310
\$ 58 Terphenyl-d14	244	9.050	9.043	(1.044)	772228	1.33472	1330 (R)
* 60 Benzo (a) anthracene-d12	240	10.104	10.100	(1.000)	438846	0.50000	0.500
\$ 61 Benzo (a) anthracene-d12 (SS)	240	10.104	10.100	(1.137)	438846	0.77039	770 (R)
* 63 Chrysene-d12	240	10.137	10.133	(1.000)	404488	0.50000	0.500
\$ 64 Chrysene-d12 (SS)	240	10.137	10.133	(1.140)	404488	0.40473	405
65 Chrysene	228	10.154	10.163	(1.002)	10926571	12.3746	12400 E
* 70 Benzo (b) fluoranthene-d12	264	11.259	11.253	(1.000)	416632	0.50000	0.500
\$ 71 Benzo (b) fluoranthene-d12 (SS)	264	11.259	11.253	(0.973)	416632	0.60300	603 (R)
72 Benzo (b) fluoranthene	252	11.283	11.277	(1.002)	82057	0.06704	67.0 (M)
* 73 Benzo (k) fluoranthene-d12	264	11.289	11.289	(1.000)	392503	0.50000	0.500
\$ 74 Benzo (k) fluoranthene-d12 (SS)	264	11.289	11.289	(0.975)	392501	0.39803	398
75 Benzo (k) fluoranthene	252	11.313	11.307	(1.002)	11616	0.01352	13.5 (M)
* 76 Benzo (e) pyrene-d12	264	11.575	11.570	(1.000)	327635	0.50000	0.500
77 Benzo (e) pyrene	252	11.605	11.600	(0.997)	137035	0.13059	131
* 78 Benzo (a) pyrene-d12	264	11.641	11.635	(1.000)	386166	0.50000	0.500
\$ 79 Benzo (a) pyrene-d12 (SS)	264	11.641	11.635	(1.006)	386047	0.54646	546
80 Benzo (a) pyrene	252	11.665	11.665	(1.002)	24736	0.02823	28.2
* 81 Perylene-d12	264	11.737	11.737	(1.000)	346555	0.50000	0.500
\$ 82 Perylene-d12 (SS)	264	11.737	11.737	(1.014)	346555	0.49186	492
83 Perylene	252	11.767	11.761	(1.003)	17907	0.02051	20.5
* 84 Indeno (123-cd) pyrene-d12	288	13.110	13.106	(1.000)	430006	0.50000	0.500
\$ 85 Indeno (123-cd) pyrene-d12 (SS)	288	13.110	13.106	(1.133)	430006	0.53266	533
86 Indeno (1,2,3-cd) pyrene	276	13.144	13.140	(1.003)	13771	0.01323	13.2

Data File: /var/chem/gcms/mp.i/P072911.b/mk09plac.d
 Report Date: 05-Aug-2011 13:17

Compounds	QUANT SIG						CONCENTRATIONS	
	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN	FINAL	
						(ug/ml)	(ng/sample)	
=====	=====	==	=====	=====	=====	=====	=====	
* 87 Dibenz (ah) anthracene-d14	292	13.114	13.110	(1.000)	317958	0.50000	0.500	
\$ 88 Dibenz (ah) anthracene-d14 (SS)	292	13.114	13.110	(1.133)	317958	0.51709	517	
89 Dibenz (a,h) anthracene	278	13.152	13.157	(1.003)	8124	0.01040	10.4	
* 90 Benzo (ghi) perylene-d12	288	13.464	13.460	(1.000)	294482	0.50000	0.500	
\$ 91 Benzo (ghi) perylene-d12 (SS)	288	13.464	13.460	(1.163)	294482	0.48539	485	
92 Benzo (g,h,i) perylene	276	13.498	13.494	(1.002)	25596	0.03140	31.4	

QC Flag Legend

R - Spike/Surrogate failed recovery limits.
 M - Compound response manually integrated.

Data File: /var/chem/gcms/mp.i/P072911.b/mk09p1ac.d
 Report Date: 05-Aug-2011 13:17

TestAmerica Knoxville

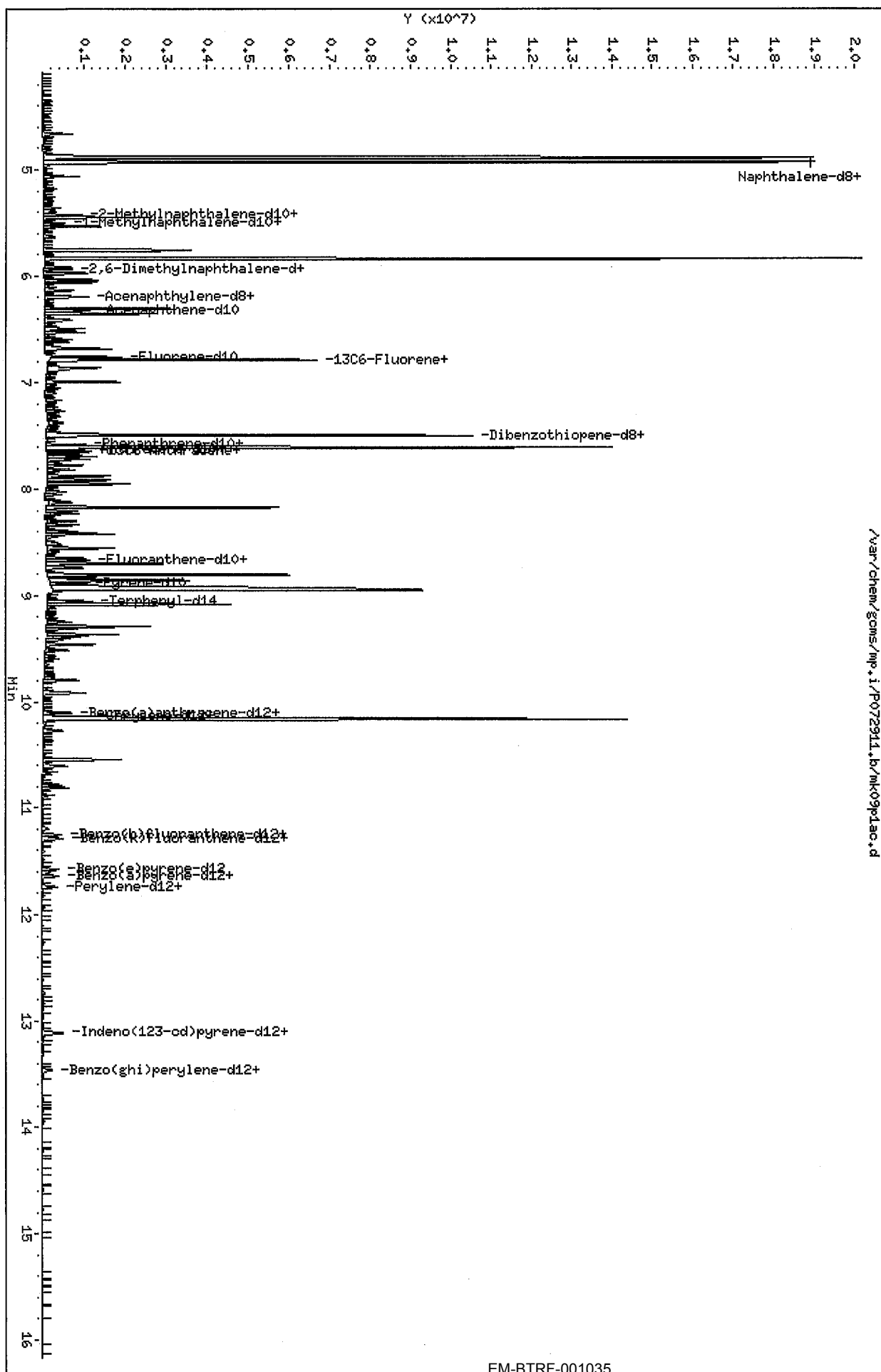
RECOVERY REPORT

Client Name: TRC Environmental Co19-JUL-2011 00:00 Client SDG: H1G190403
 Sample Matrix: GAS Fraction: SV
 Lab Smp Id: MK09P1AC Client Smp ID: EXM-SRU-M0010-R1-CO
 Level: LOW Operator: 11211
 Data Type: MS DATA SampleType: SAMPLE
 SpikeList File: icv.spk Quant Type: ISTD
 Sublist File: pah.sub
 Method File: /var/chem/gcms/mp.i/P072911.b/SIMPAH3.m
 Misc Info: P072911,SIMPAH3

SURROGATE COMPOUND	CONC ADDED ng/sample	CONC RECOVERED ng/sample	% RECOVERED	LIMITS
\$ 2 Naphthalene-d8 (SS)	500	286	57.11	30-120
\$ 222 13C6-Naphthalene	500	0.00	*	50-150
\$ 11 2-Methylnaphthalen	500	428	85.58	30-120
\$ 14 1-Methylnaphthalen	500	394	78.84	30-120
\$ 18 2,6-Dimethylnaph-d	500	485	96.91	30-120
\$ 21 Acenaphthylene-d8 (	500	551	110.21	30-120
\$ 26 Fluorene-d10	1000 ✓	1080	107.79	30-120
\$ 28 13C6-Fluorene	1000	958	95.82	30-120
\$ 35 Dibenzothiopene-d8	500	429	85.75	30-120
\$ 42 Phenanthrene-d10 (S	500	412	82.50	30-120
\$ 45 Anthracene-d10 (SS)	500	492	98.31	30-120
\$ 47 13C6-Anthracene	500	416	<u>83.27</u>	30-120
\$ 54 Fluoranthene-d10 (S	500	493	98.58	0-120
\$ 58 Terphenyl-d14	1000 ✓	1330	133.47*	30-120
\$ 61 Benzo (a) anthracene	500	770	154.08*	30-120
\$ 64 Chrysene-d12 (SS)	500	405	80.95	30-120
\$ 71 Benzo (b) fluoranthe	500	603	120.60*	30-120
\$ 74 Benzo (k) fluoranthe	500	398	79.61	30-120
\$ 79 Benzo (a) pyrene-d12	500	546	109.29	30-120
\$ 82 Perylene-d12 (SS)	500	492	98.37	30-120
\$ 85 Indeno (123-cd) pyre	500	533	106.53	30-120
\$ 88 Dibenz (ah) anthrace	500	517	103.42	30-120
\$ 91 Benzo (ghi) perylene	500	485	97.08	30-120

Data File: /var/chem/gcms/mp.i/P072911.b/mk09plac.d
 Date : 29-JUL-2011 15:54
 Client ID: EXM-SRU-H0010-RL-CO
 Sample Info: ,,,
 Purge Volume: 1.0
 Column phase: Variant: SMS

Instrument: mp.i
 Operator: 11211
 Column diameter: 0.25



Data File: /var/chem/gcms/mp.i/P072911.b/mk09p1ac.d

Date : 29-JUL-2011 15:54

Client ID: EXM-SRU-M0010-R1-C0

Instrument: mp.i

Sample Info: ,,0,,,

Purge Volume: 1.0

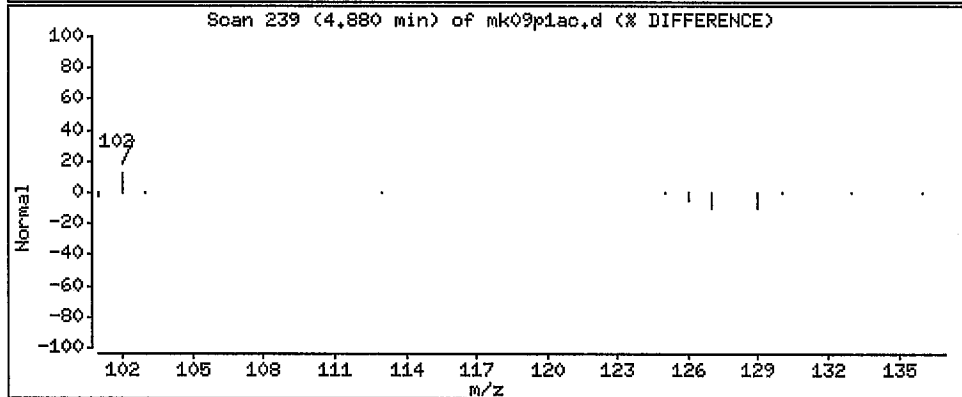
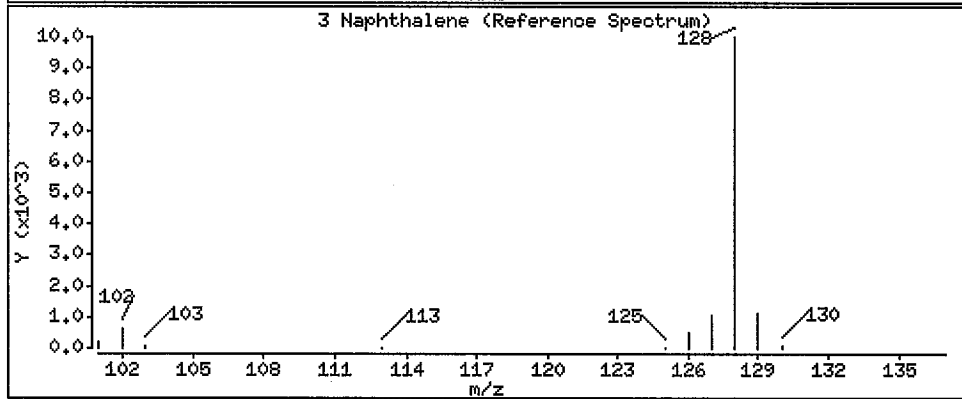
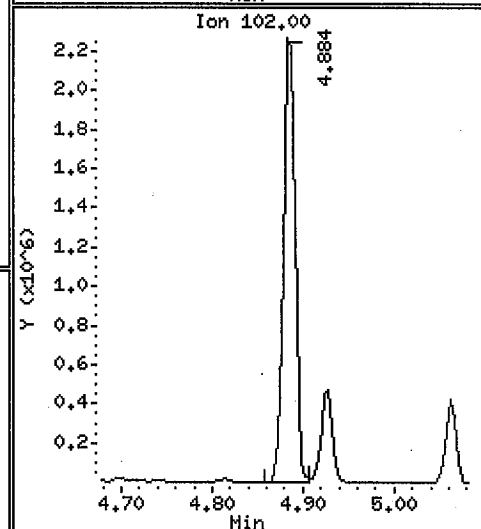
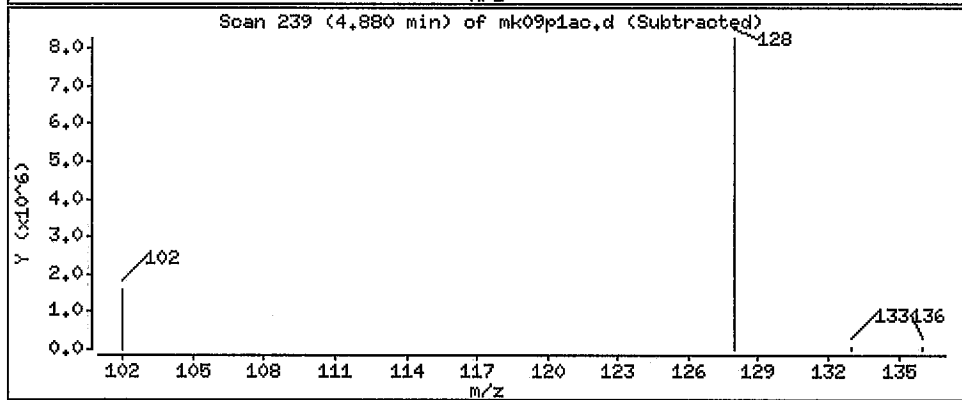
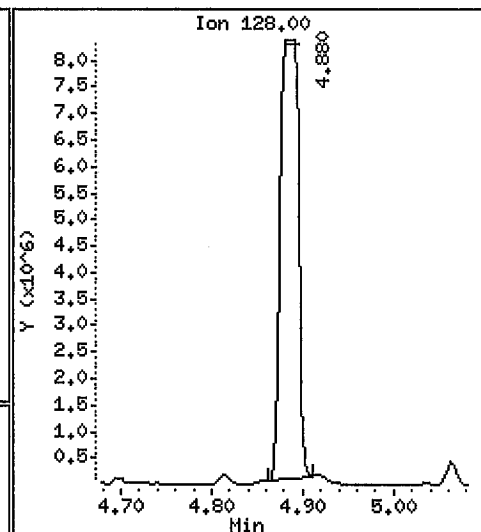
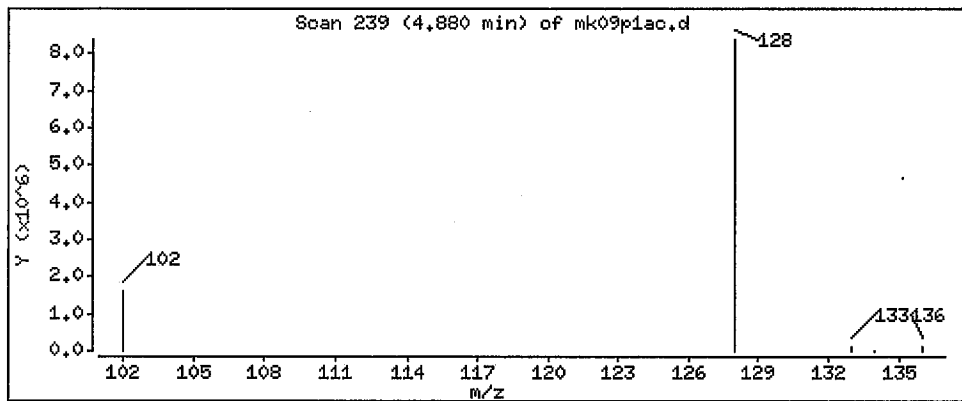
Operator: 11211

Column phase: Variant: 5MS

Column diameter: 0.25

3 Naphthalene

Concentration: 15600 ng/sample



EM-BTRF-001036

Data File: /var/chem/gcms/mp.i/P072911.b/mk09plao.d

Date : 29-JUL-2011 15:54

Client ID: EXM-SRU-M0010-R1-C0

Instrument: mp.i

Sample Info: ,,0,,,

Purge Volume: 1.0

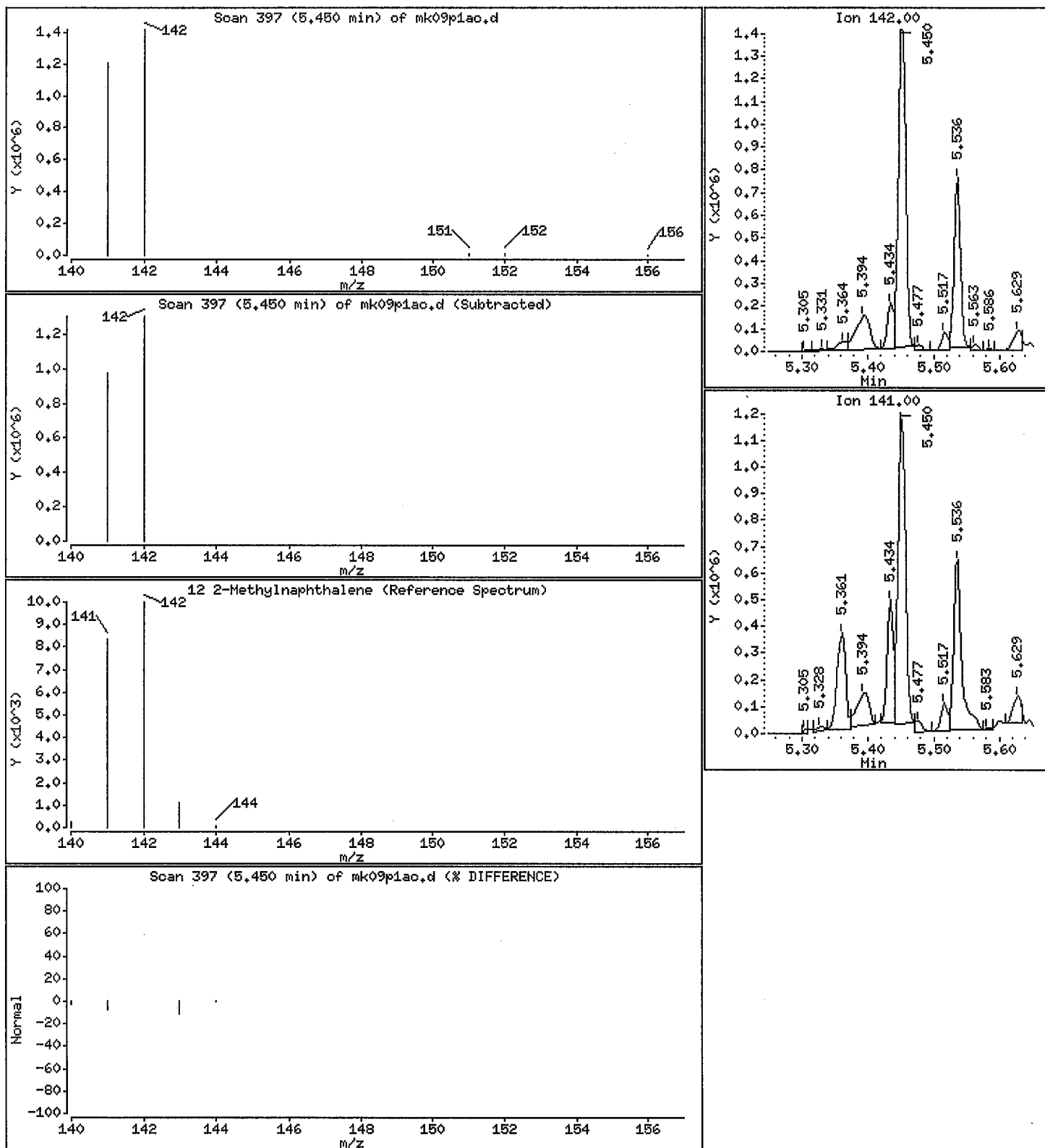
Operator: 11211

Column phase: Varian: 5MS

Column diameter: 0.25

12 2-Methylnaphthalene

Concentration: 1540 ng/sample



EM-BTRF-001037

Data File: /var/chem/gcms/mp.i/P072911.b/mk09plac.d

Date : 29-JUL-2011 15:54

Client ID: EXM-SRU-M0010-R1-C0

Instrument: mp.i

Sample Info: ,,0,,,

Purge Volume: 1.0

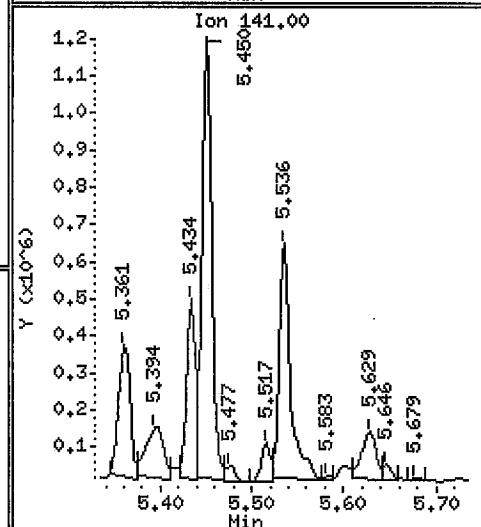
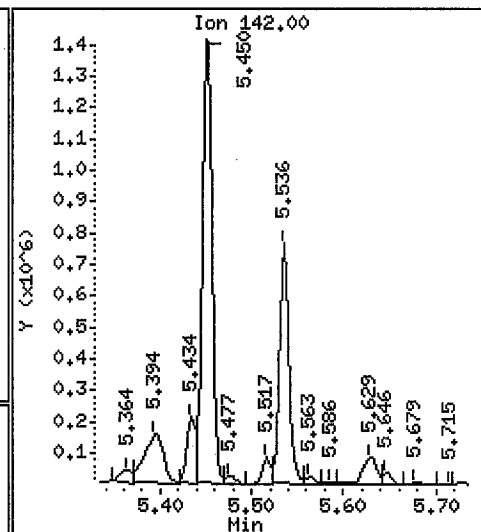
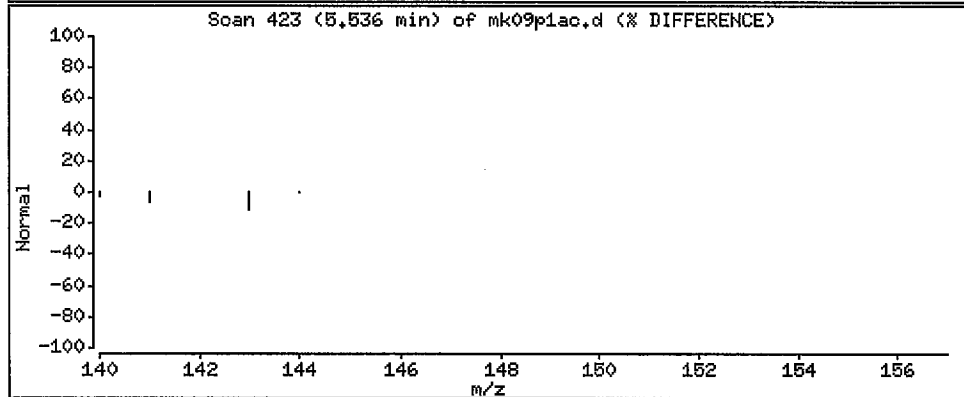
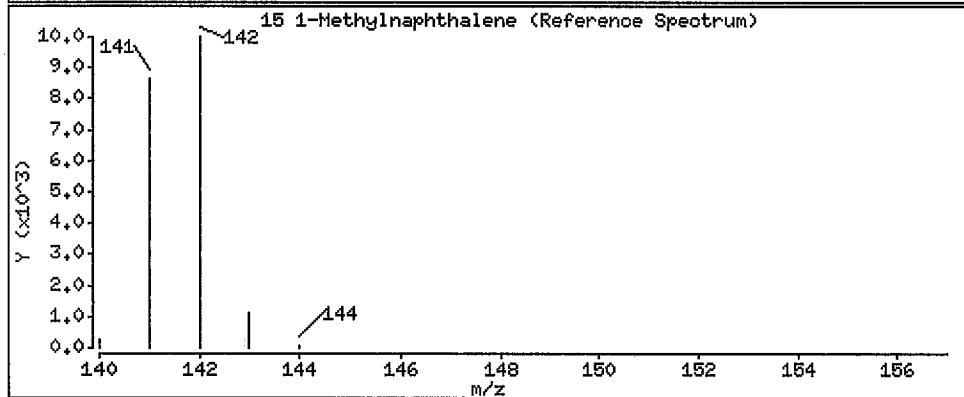
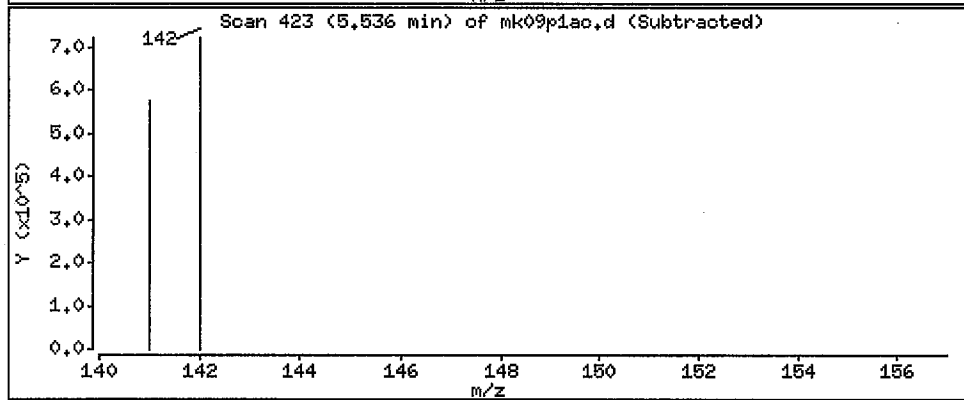
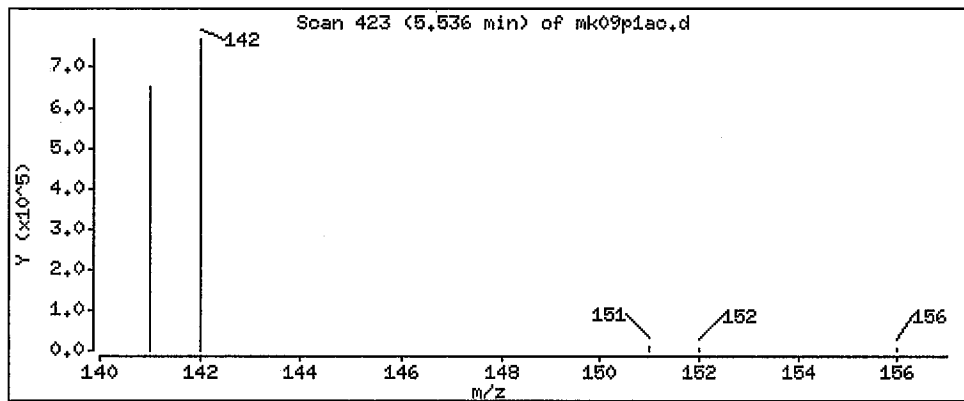
Operator: 11211

Column phase: Varian: 5MS

Column diameter: 0.25

15 1-Methylnaphthalene

Concentration: 908 ng/sample



Data File: /var/chem/gcms/mp.i/P072911.b/mk09p1ac.d

Date: 29-JUL-2011 15:54

Client ID: EXM-SRU-M0010-R1-C0

Instrument: mp.i

Sample Info: ,,0,,,

Purge Volume: 1.0

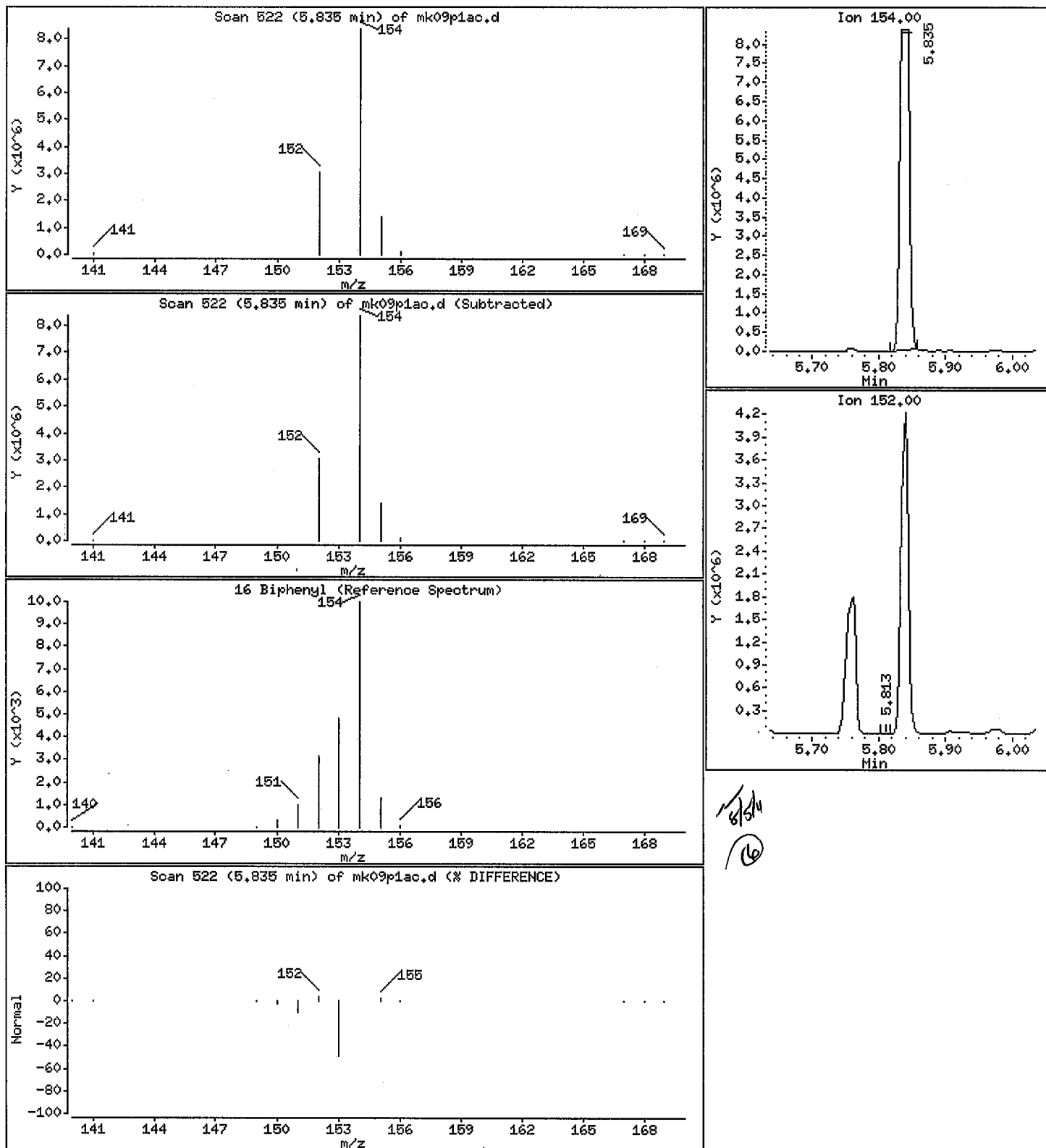
Operator: 11211

Column phase: Varian: 5MS

Column diameter: 0.25

16 Biphenyl

Concentration: 10700 ng/sample



EM-BTRF-001039

Data File: /var/chem/gcms/mp.i/P072911.b/mk09p1ac.d

Date : 29-JUL-2011 15:54

Client ID: EXM-SRU-H0010-R1-C0

Instrument: mp.i

Sample Info: ,,0,,,

Purge Volume: 1.0

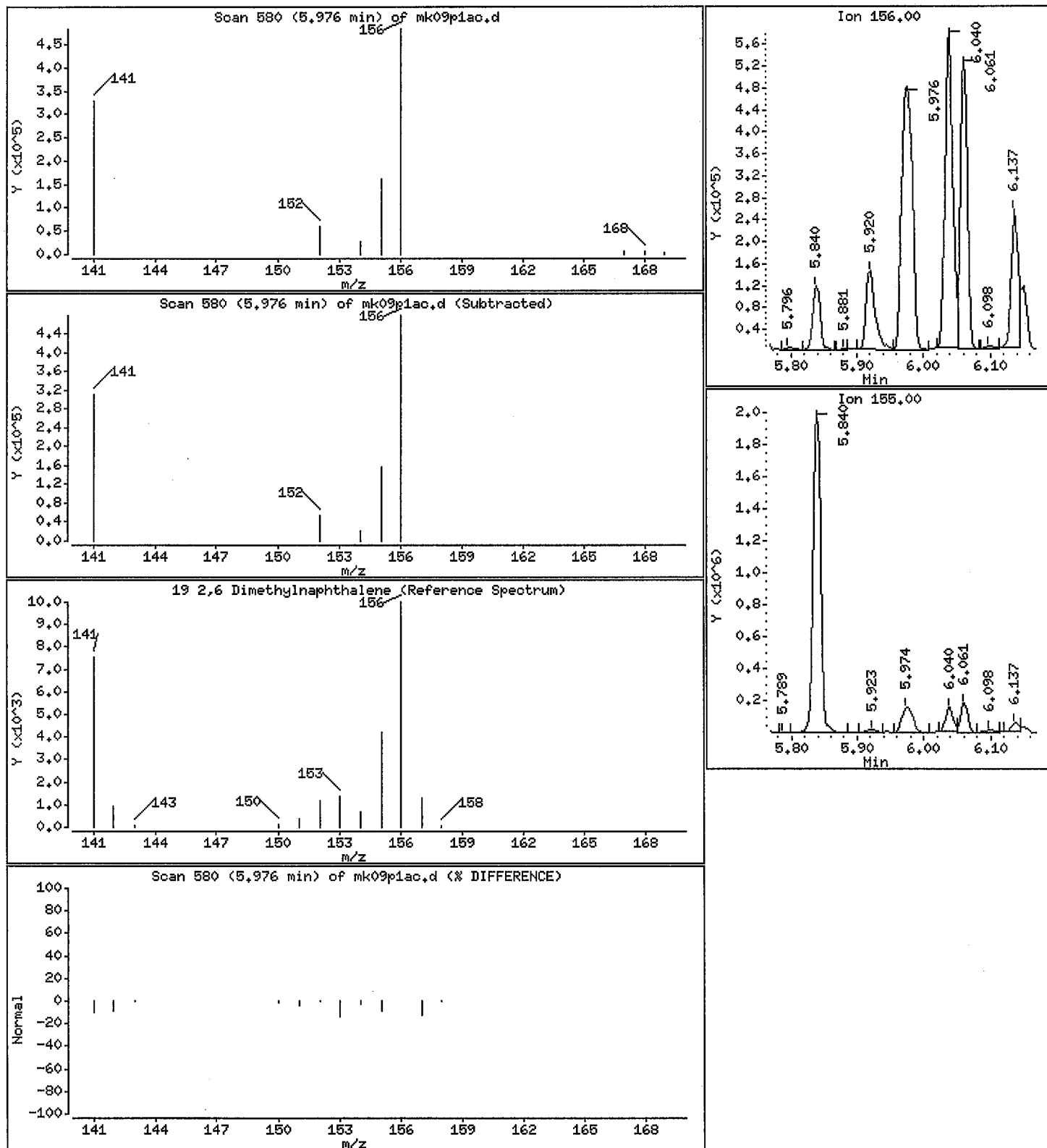
Operator: 11211

Column phase: Variant: SMS

Column diameter: 0.25

19 2,6 Dimethylnaphthalene

Concentration: 799 ng/sample



EM-BTRF-001040

Data File: /var/chem/gcms/mp.i/P072911.b/mk09p1ao.d

Date : 29-JUL-2011 15:54

Client ID: EXH-SRU-M0010-R1-C0

Instrument: mp.i

Sample Info: ,,0,,

Purge Volume: 1.0

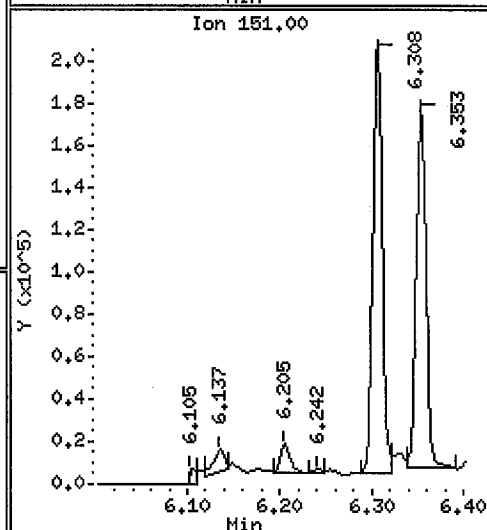
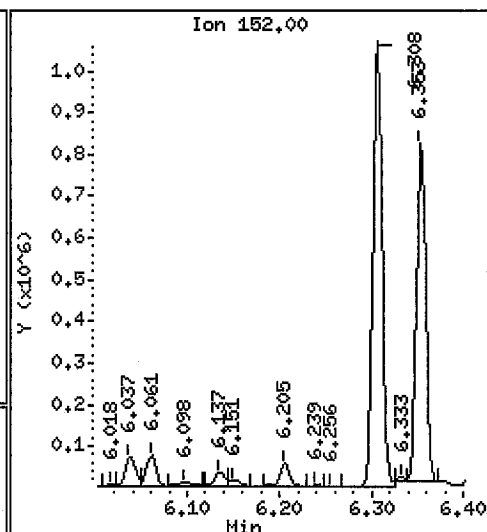
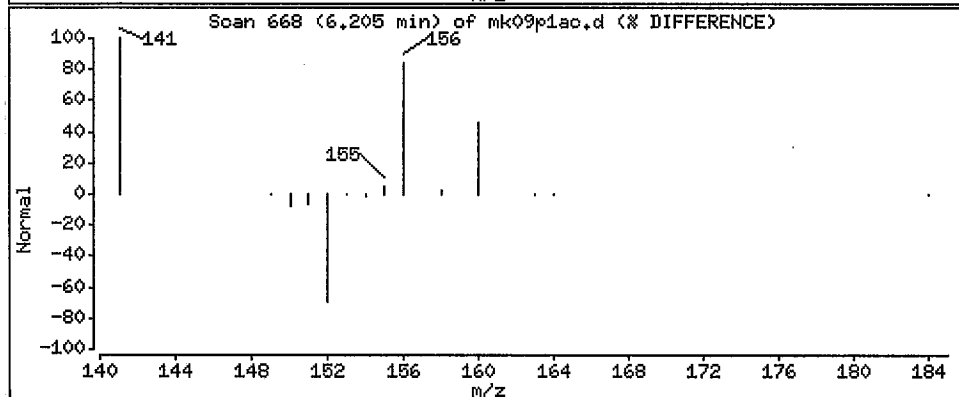
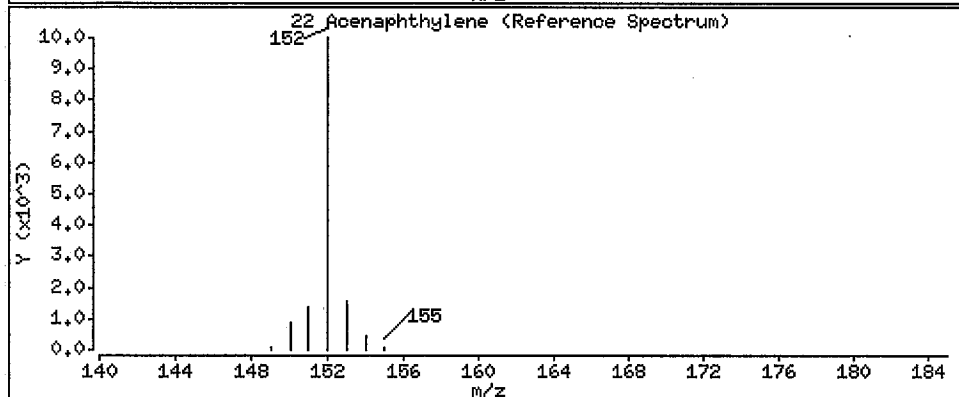
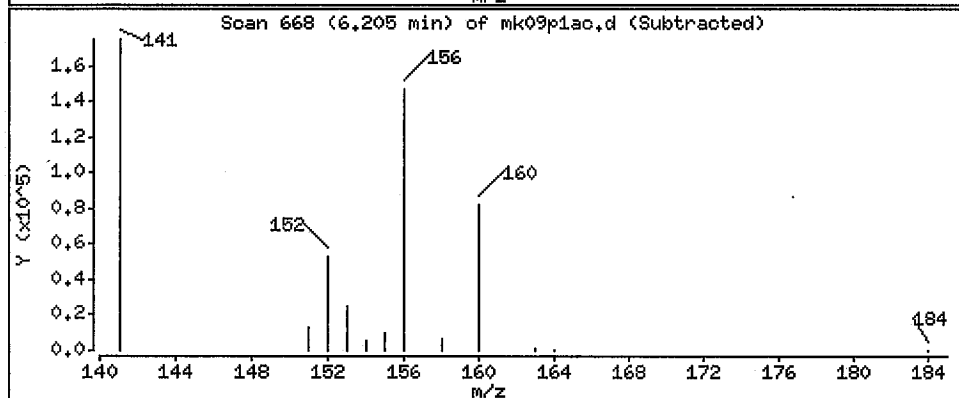
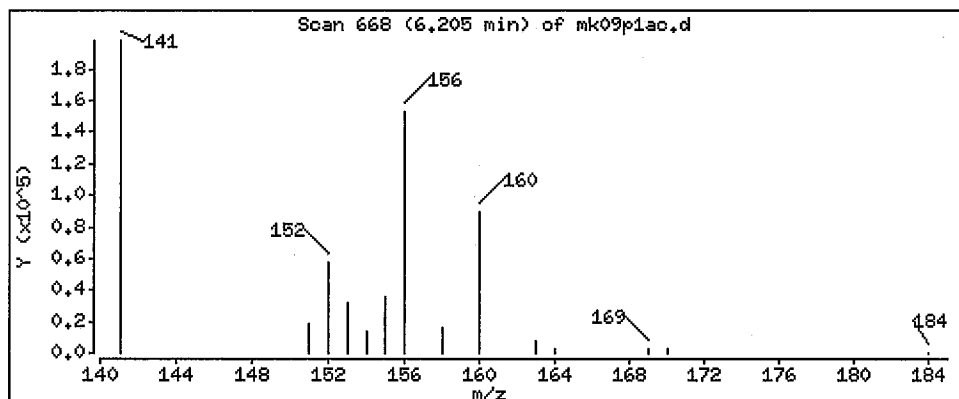
Operator: 11211

Column phase: Varian: SMS

Column diameter: 0.25

22 Acenaphthylene

Concentration: 32.3 ng/sample



Data File: /var/chem/gcms/mp.i/P072911.b/mk09plac.d

Date : 29-JUL-2011 15:54

Client ID: EXM-SRU-H0010-R1-C0

Instrument: mp.i

Sample Info: ,,0,,,

Purge Volume: 1.0

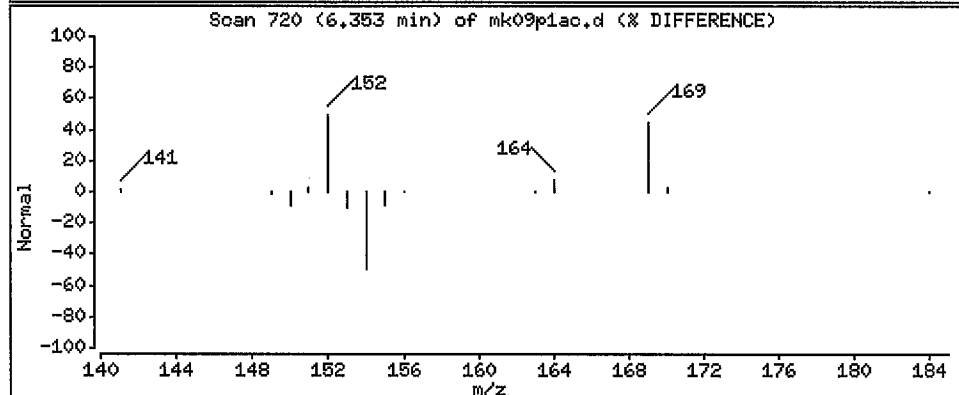
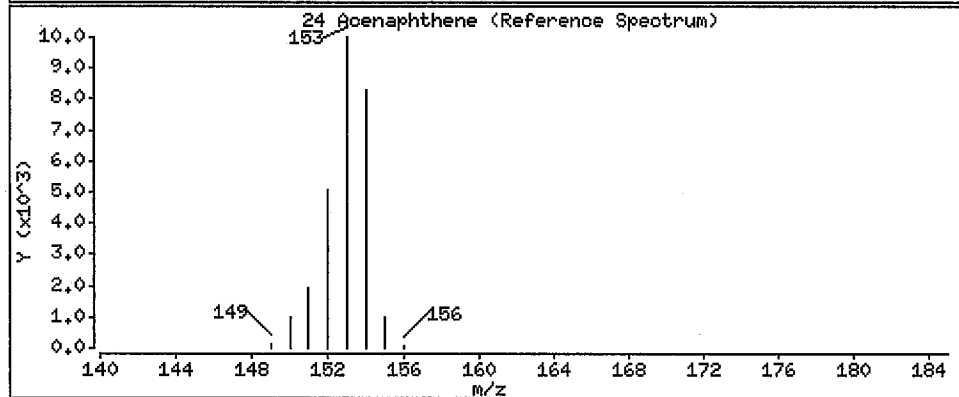
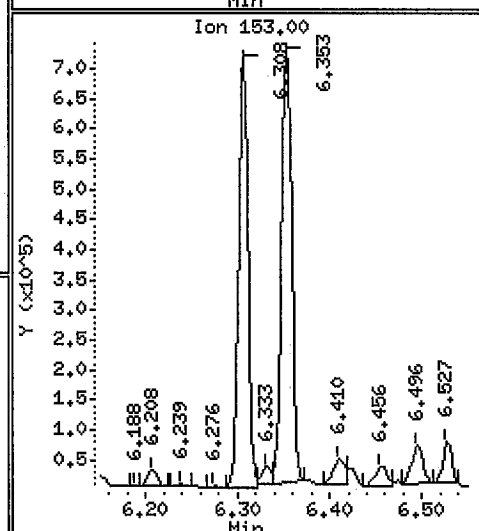
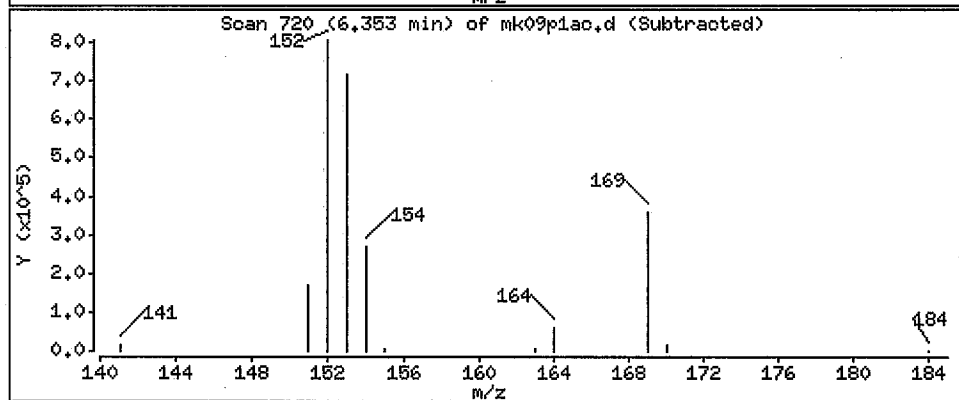
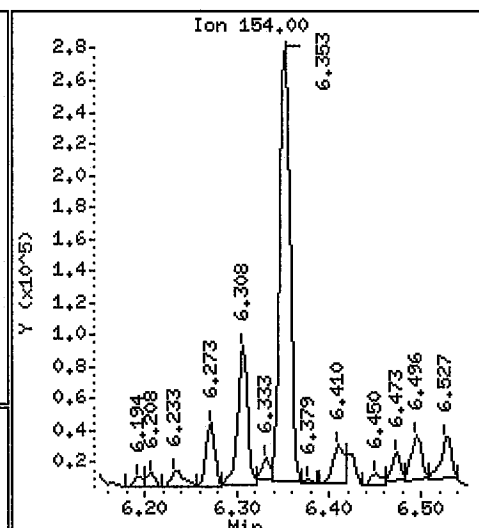
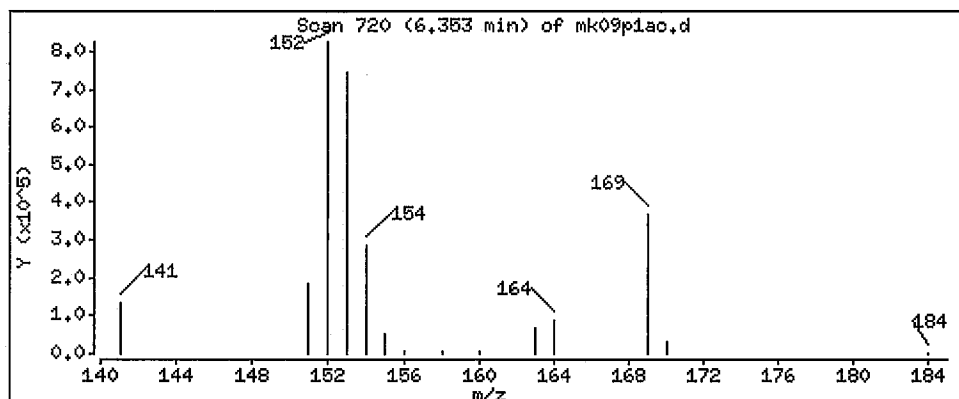
Operator: 11211

Column phase: Varian: SMS

Column diameter: 0.25

24 Acenaphthene

Concentration: 276 ng/sample



EM-BTRF-001042

Data File: /var/chem/gcms/mp.i/P072911.b/mk09p1ac.d

Date : 29-JUL-2011 15:54

Client ID: EXM-SRU-M0010-R1-C0

Instrument: mp.i

Sample Info: ,,0,,,

Purge Volume: 1.0

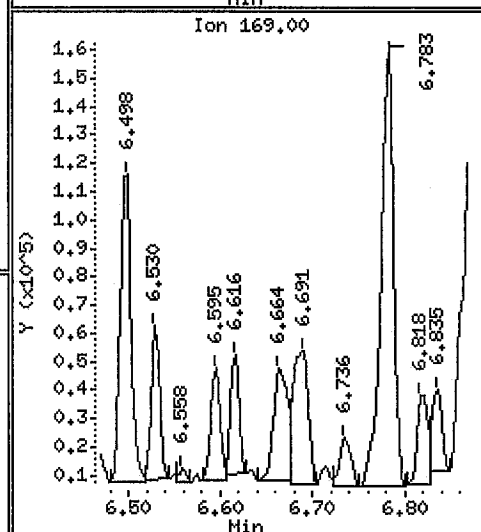
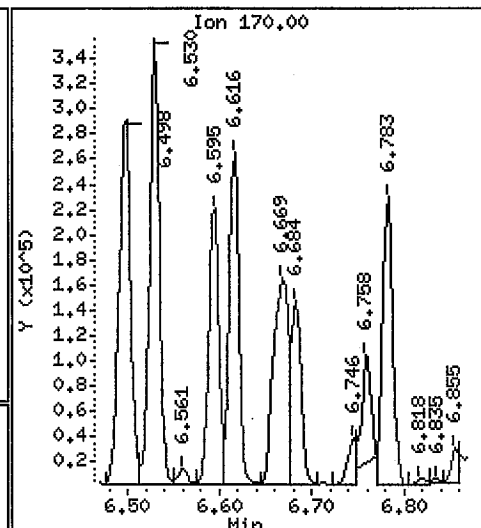
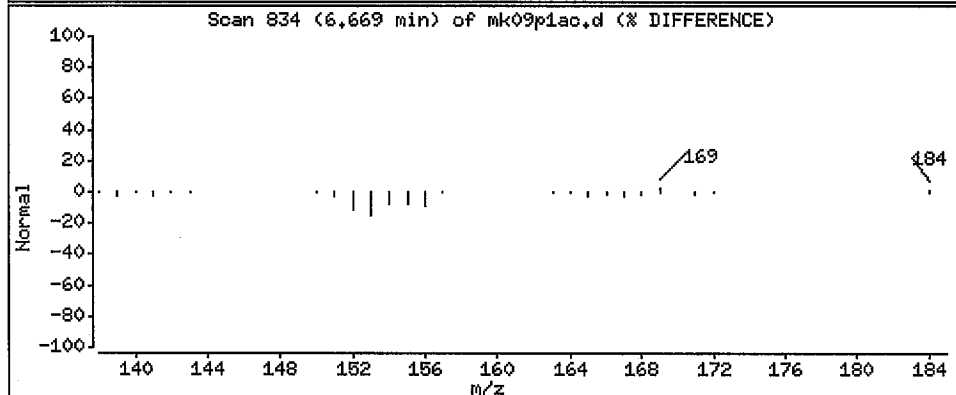
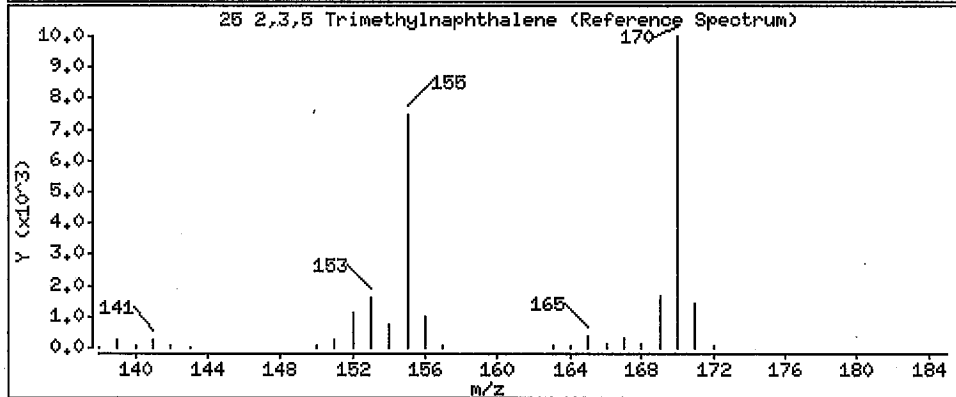
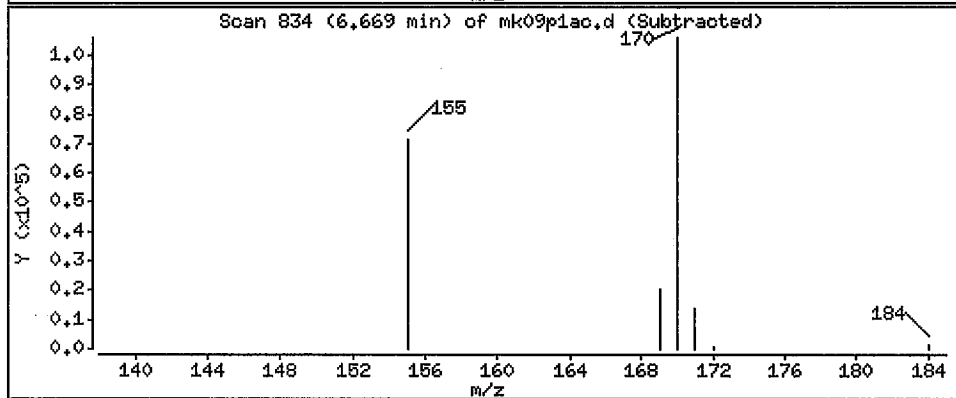
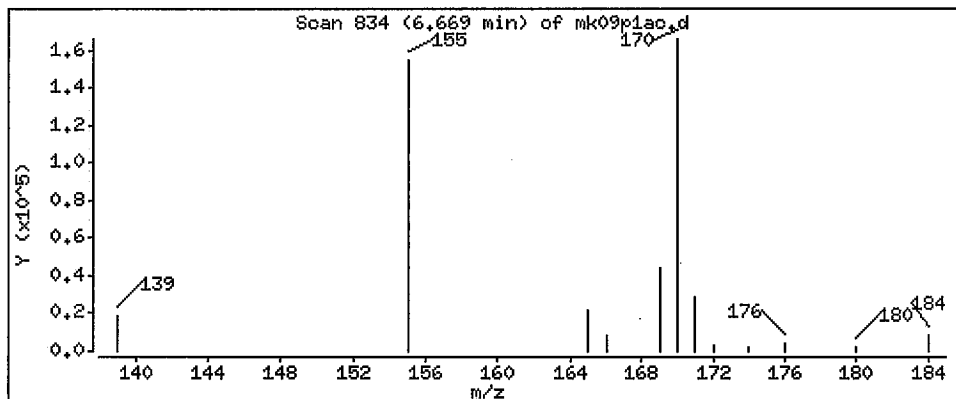
Operator: 11211

Column phase: Varian: SMS

Column diameter: 0.25

25 2,3,5 Trimethylnaphthalene

Concentration: 328 ng/sample



Data File: /var/chem/gcms/mp.i/P072911.b/mk09plac.d

Date : 29-JUL-2011 15:54

Client ID: EXH-SRU-H0010-R1-C0

Instrument: mp.i

Sample Info: ,,0,,,

Purge Volume: 1.0

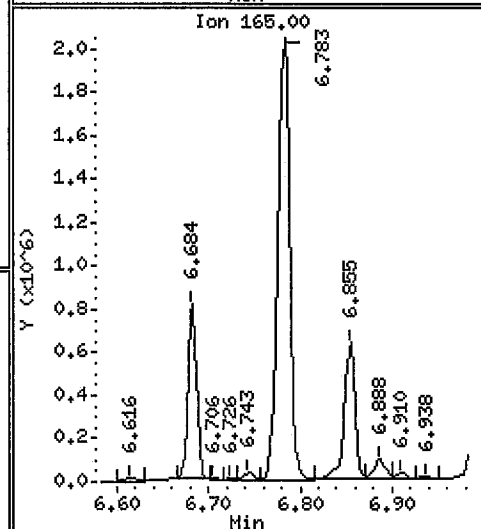
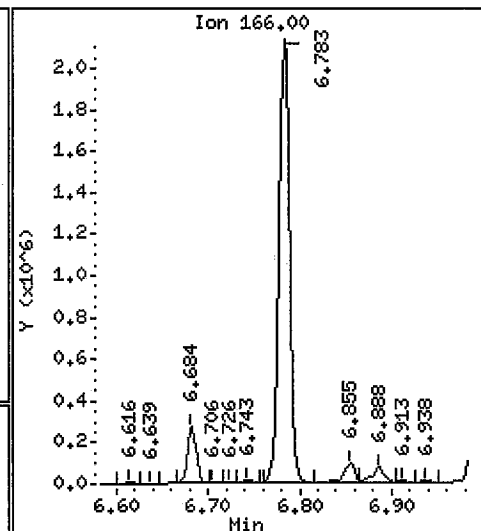
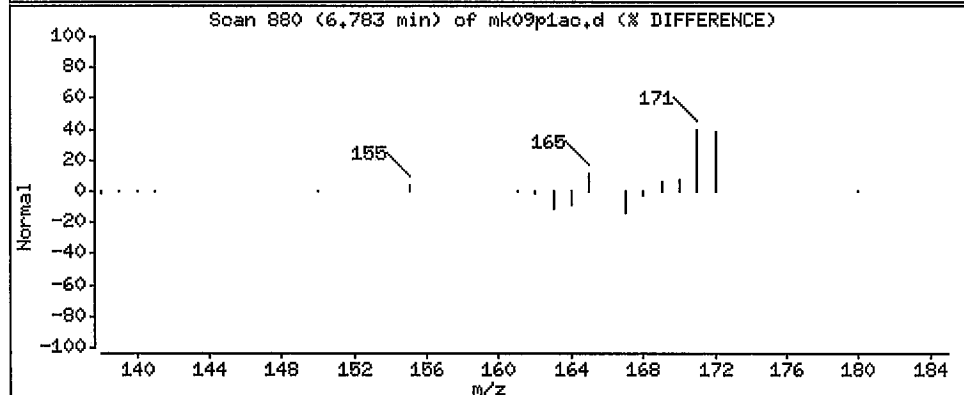
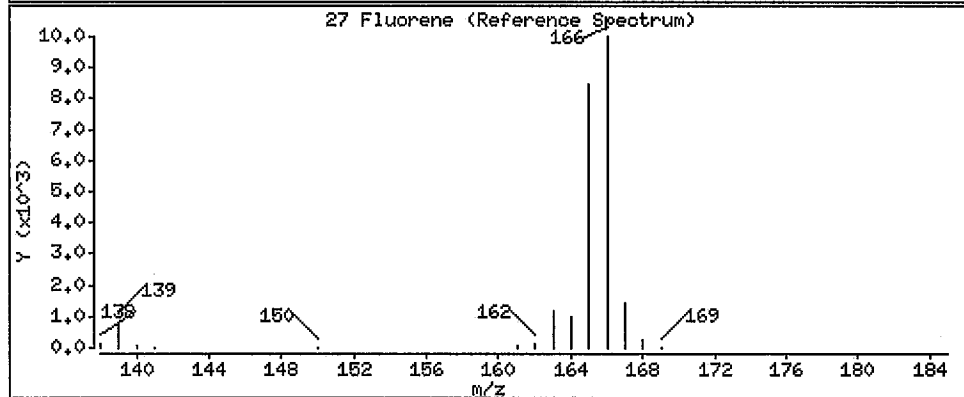
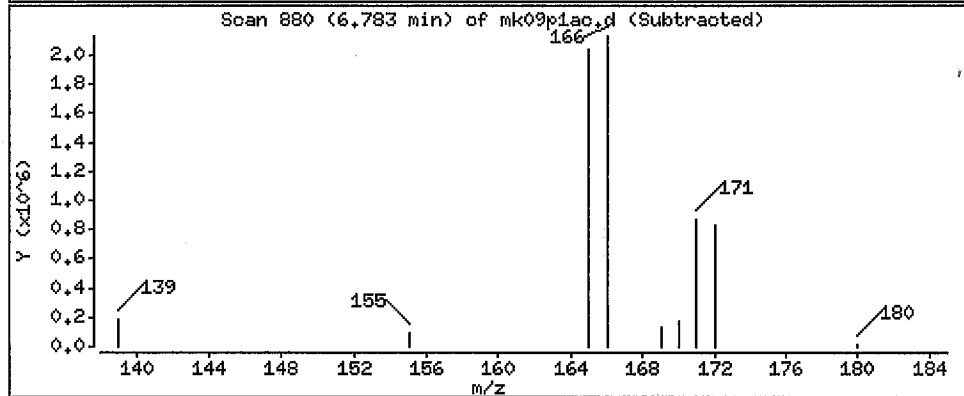
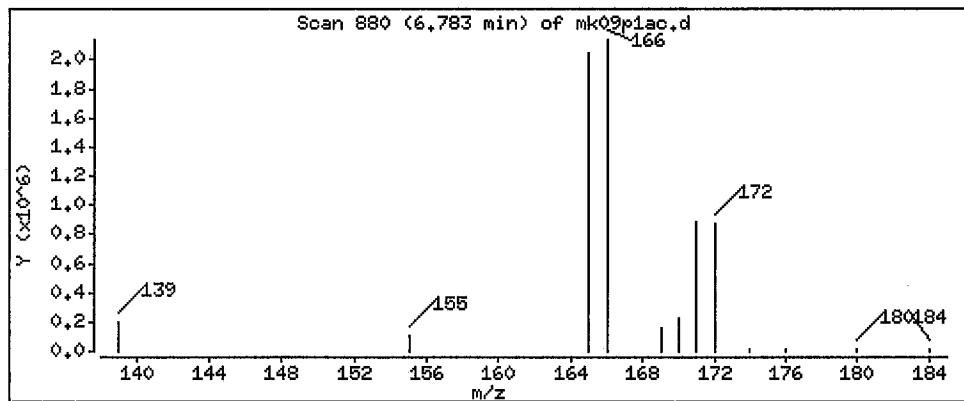
Operator: 11211

Column phase: Varian: 5MS

Column diameter: 0.25

27 Fluorene

Concentration: 2170 ng/sample



EM-BTRF-001044

Data File: /var/chem/gcms/mp.i/P072911.b/mk09p1ao.d

Date : 29-JUL-2011 15:54

Client ID: EXH-SRU-M0010-R1-C0

Instrument: mp.i

Sample Info: ,,0,,,

Purge Volume: 1.0

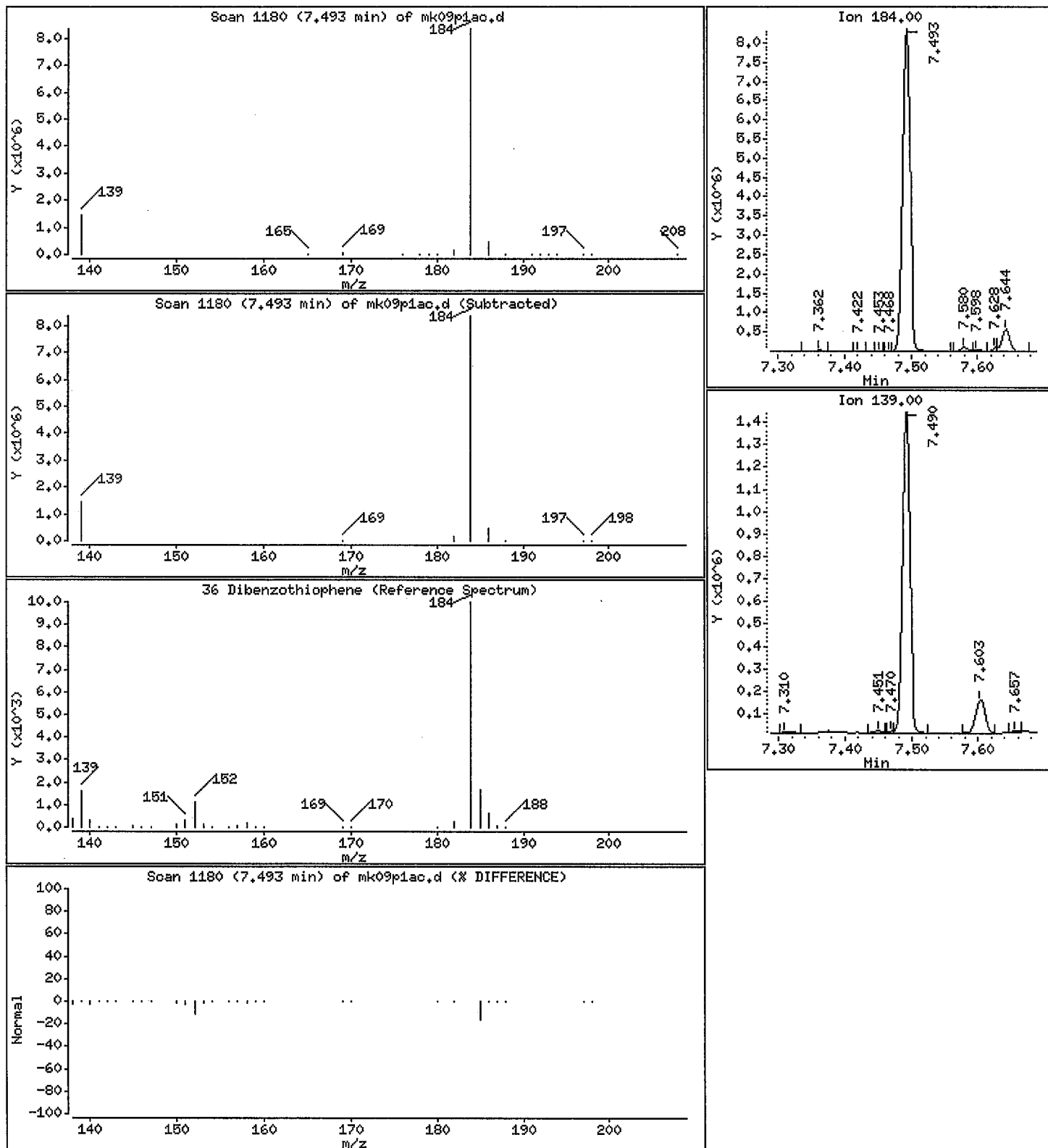
Operator: 11211

Column phase: Varian: 5MS

Column diameter: 0.25

36 Dibenzothiophene

Concentration: 5910 ng/sample



Data File: /var/chem/gcms/mp.i/P072911.b/mk09plac.d

Date : 29-JUL-2011 15:54

Client ID: EXM-SRU-M0010-R1-C0

Instrument: mp.i

Sample Info: ,,0,,,

Purge Volume: 1.0

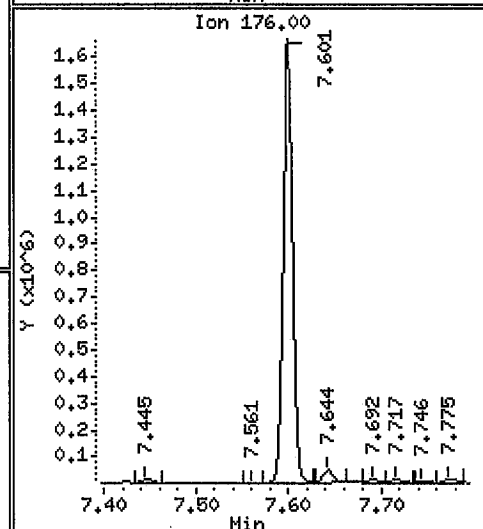
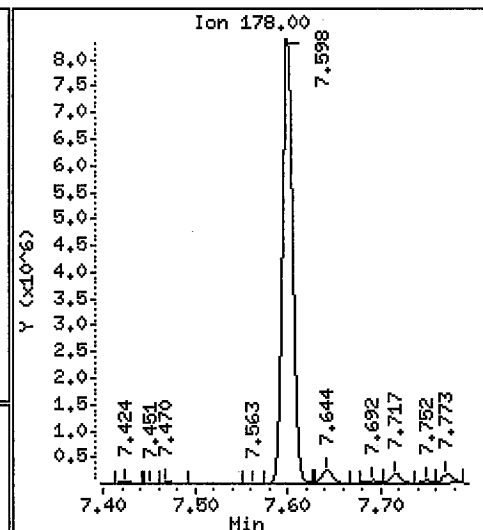
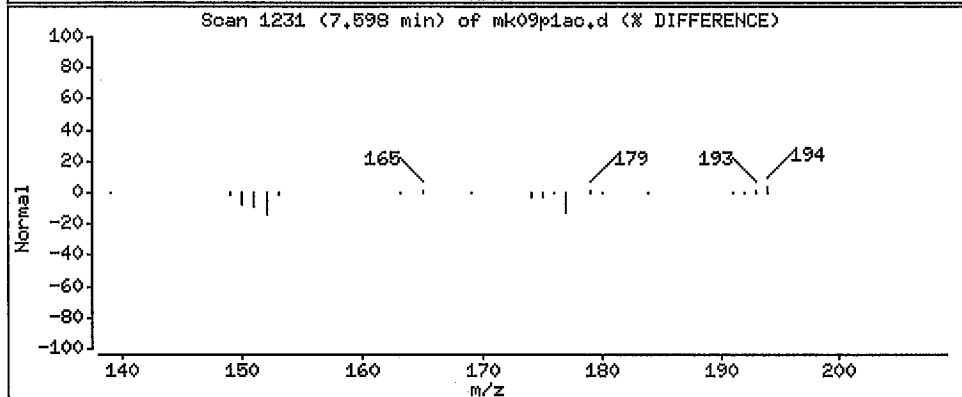
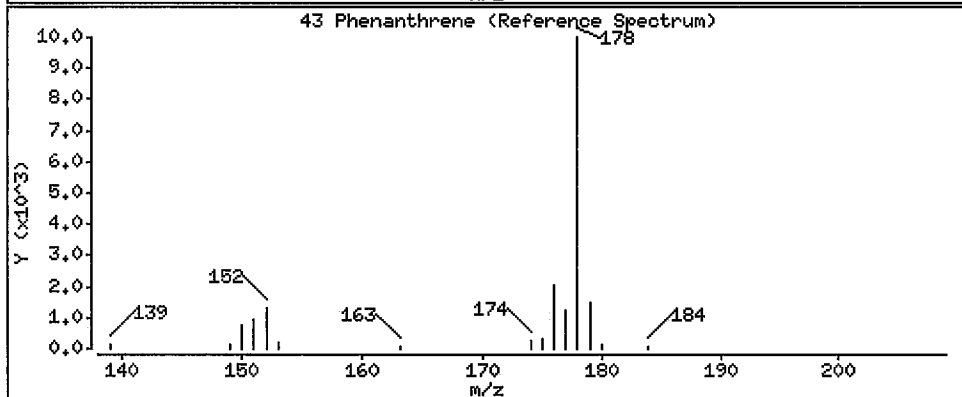
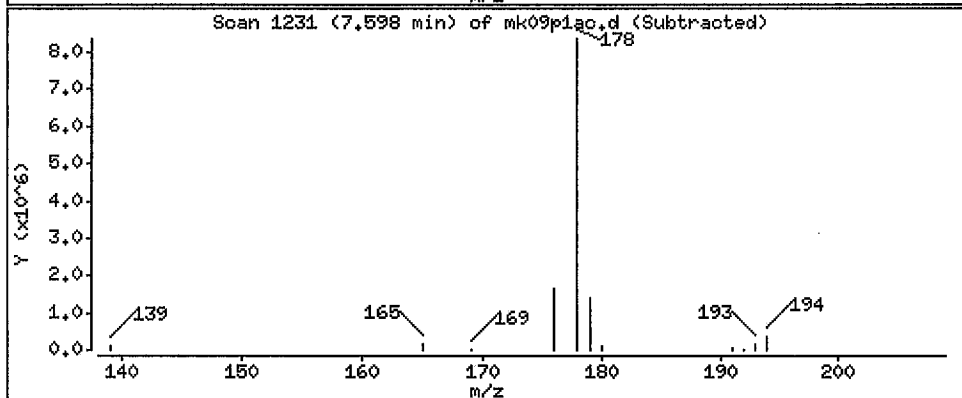
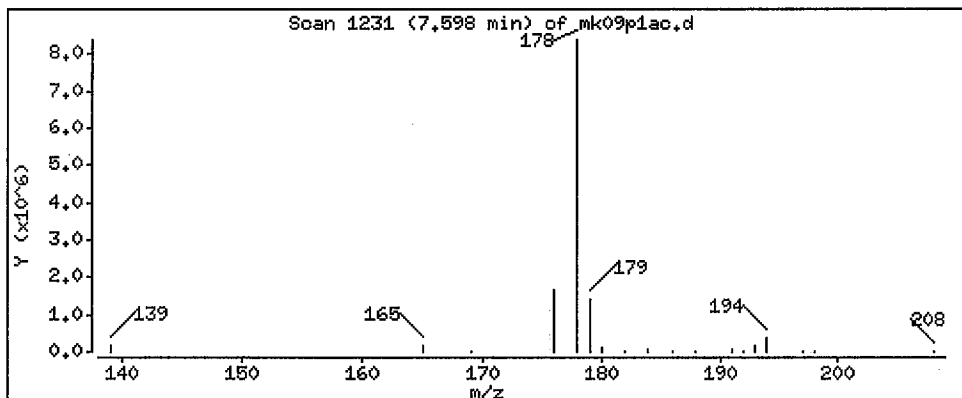
Operator: 11211

Column phase: Varian: 5MS

Column diameter: 0.25

43 Phenanthrene

Concentration: 6720 ng/sample



EM-BTRF-001046

Data File: /var/chem/gcms/mp.i/P072911.b/mk09p1ao.d

Date: 29-JUL-2011 15:54

Client ID: EXM-SRU-M0010-R1-C0

Instrument: mp.i

Sample Info: ,,,0,,,

Purge Volume: 1.0

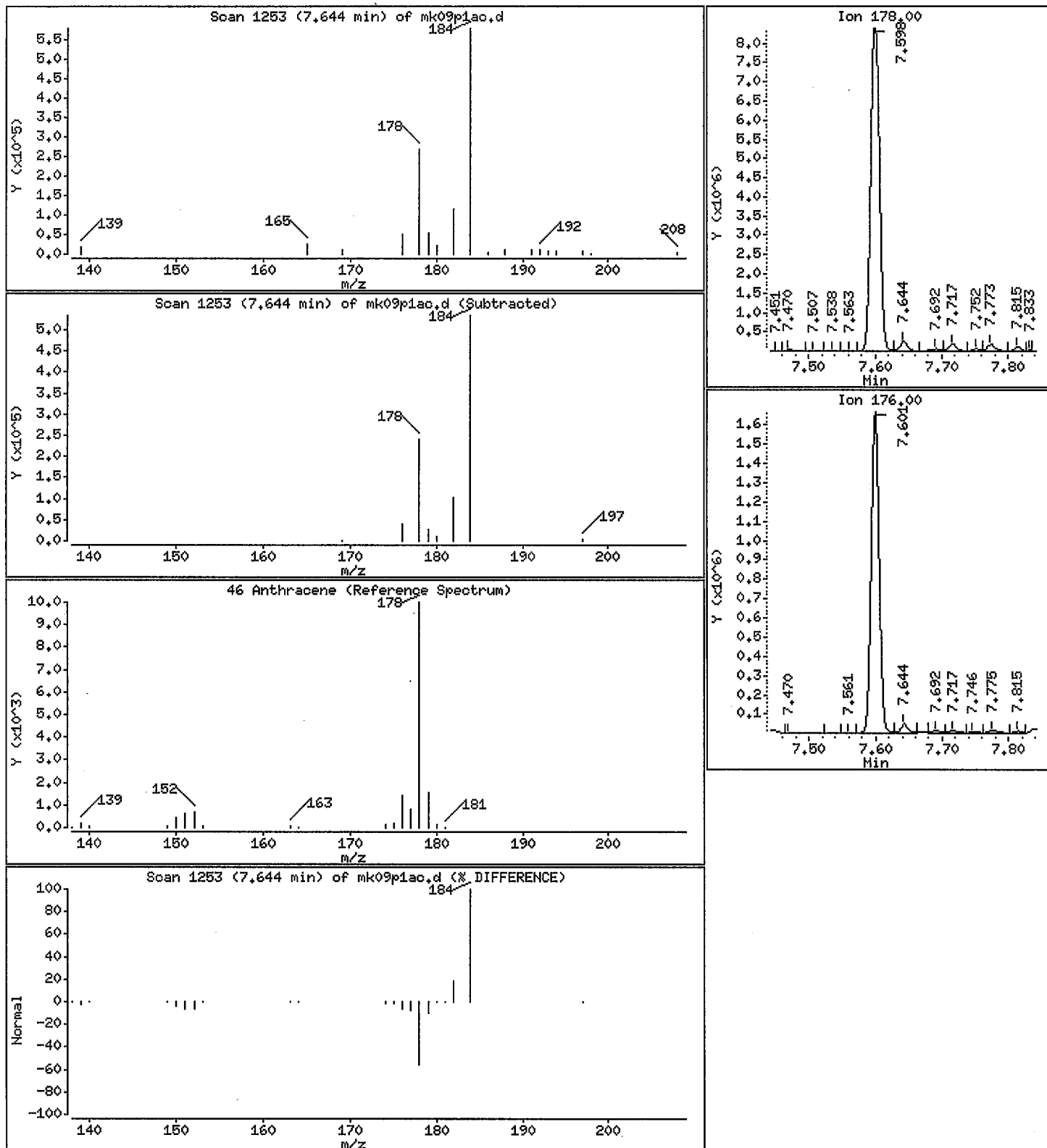
Operator: 11211

Column phase: Varian: 5MS

Column diameter: 0.25

46 Anthracene

Concentration: 152 ng/sample



EM-BTRF-001047

Data File: /var/chem/gcms/mp.i/P072911.b/mk09p1ac.d

Date : 29-JUL-2011 15:54

Client ID: EXM-SRU-M0010-R1-C0

Instrument: mp.i

Sample Info: ,,0,,

Purge Volume: 1.0

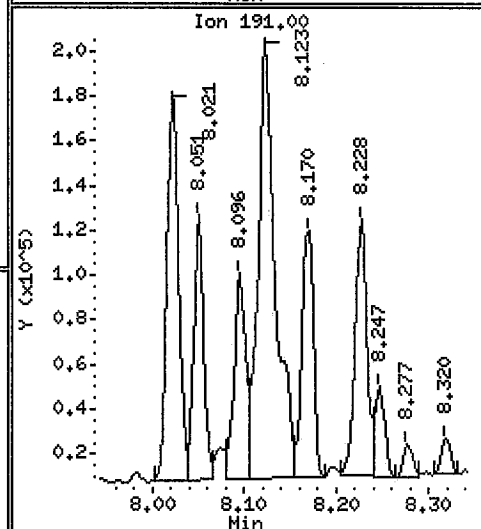
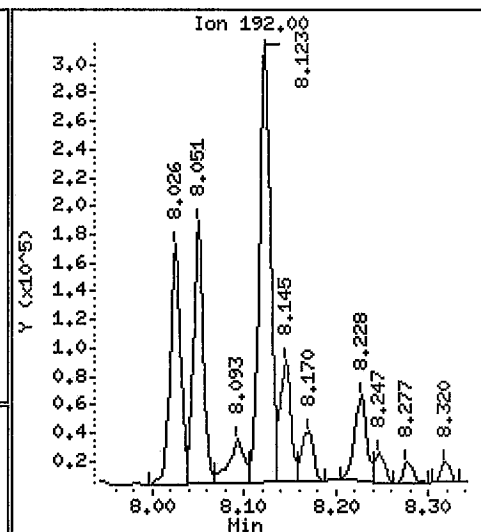
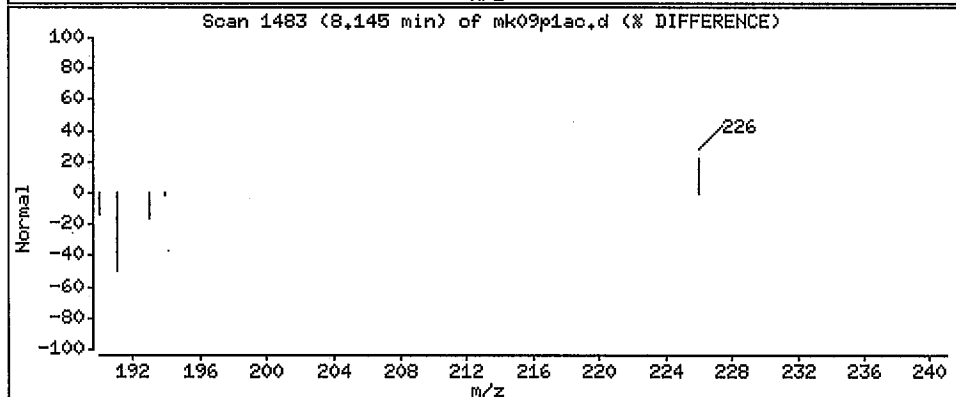
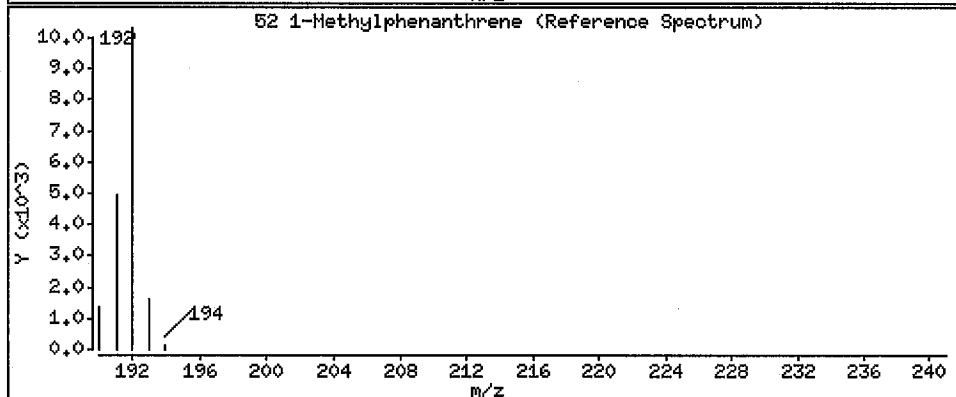
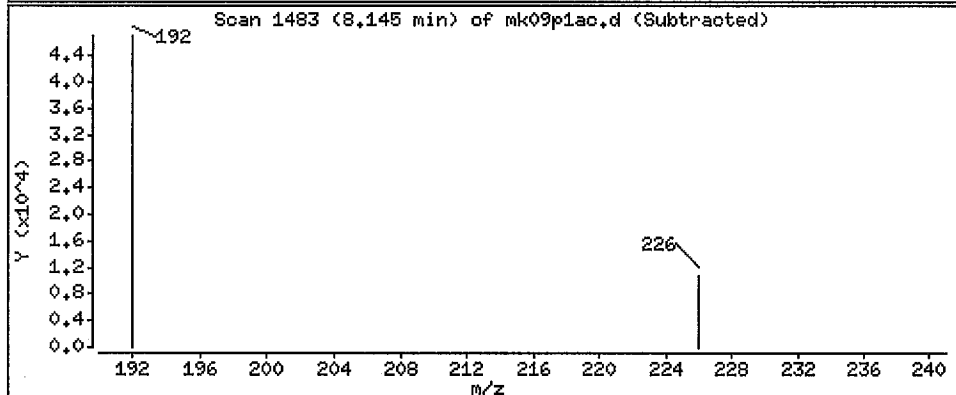
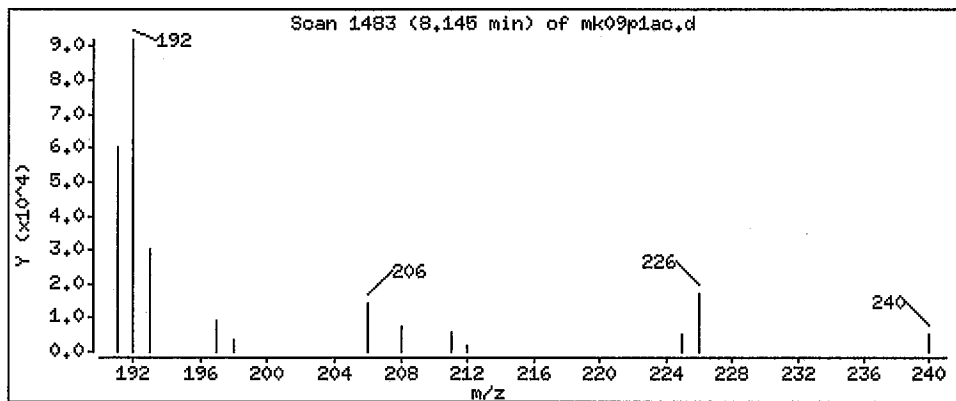
Operator: 11211

Column phase: Varian: 5MS

Column diameter: 0.25

52 1-Methylphenanthrene

Concentration: 115 ng/sample



Data File: /var/chem/gcms/mp.i/P072911.b/mk09plac.d

Date : 29-JUL-2011 15:54

Client ID: EXM-SRU-M0010-R1-C0

Instrument: mp.i

Sample Info: ,,0,,,

Purge Volume: 1.0

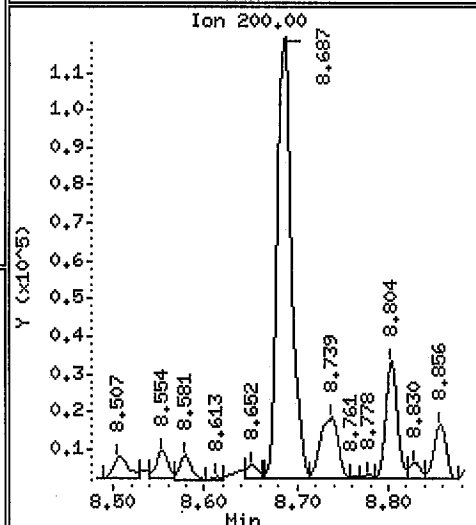
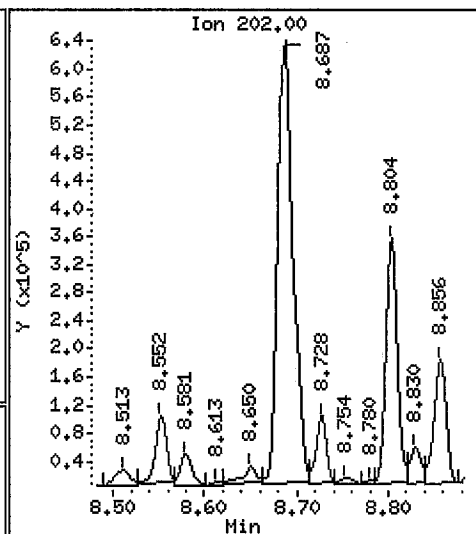
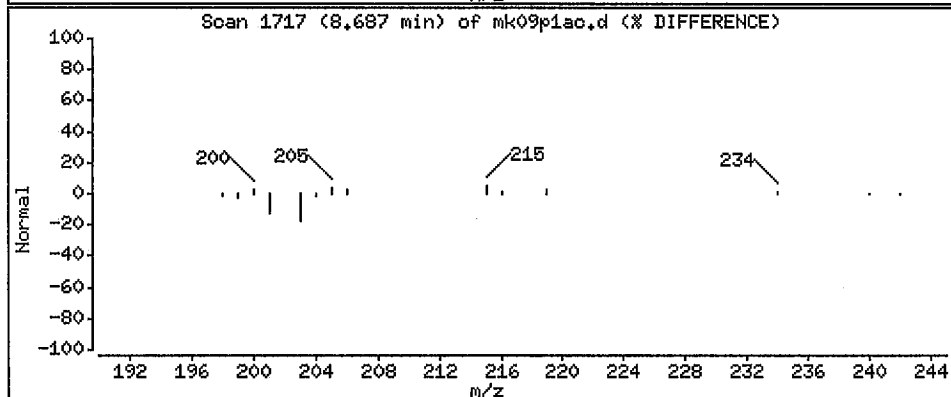
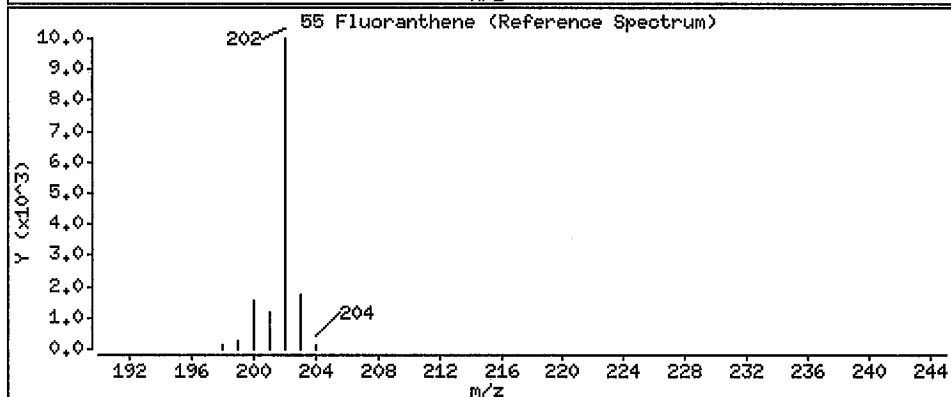
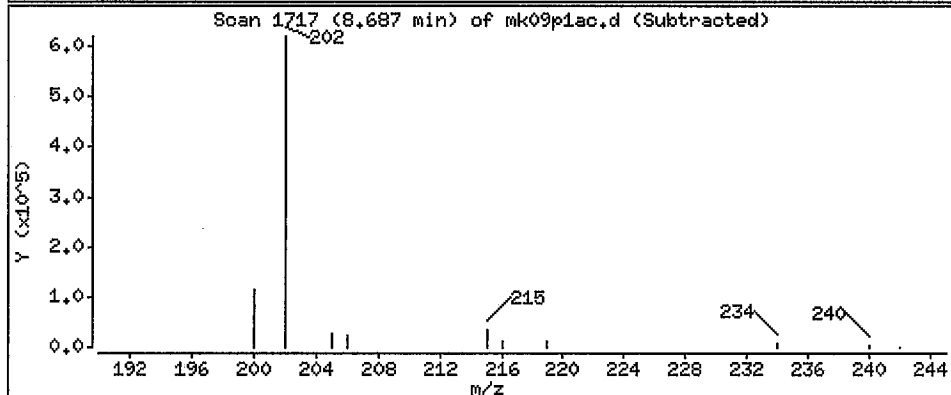
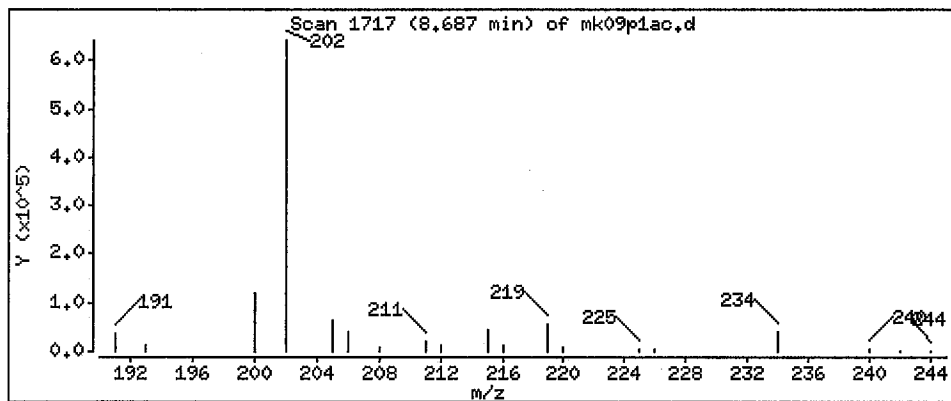
Operator: 11211

Column phase: Varian: 5MS

Column diameter: 0.25

55 Fluoranthene

Concentration: 529 ng/sample



EM-BTRF-001049

Data File: /var/chem/gcms/mp.i/P072911.b/mk09p1ao.d

Date : 29-JUL-2011 15:54

Client ID: EXM-SRU-M0010-R1-C0

Instrument: mp.i

Sample Info: ,,0,,,

Purge Volume: 1.0

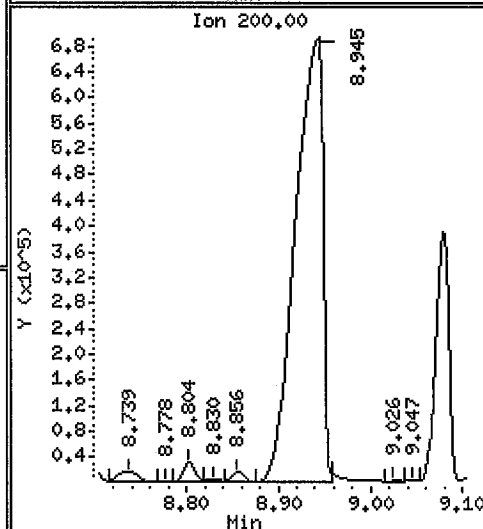
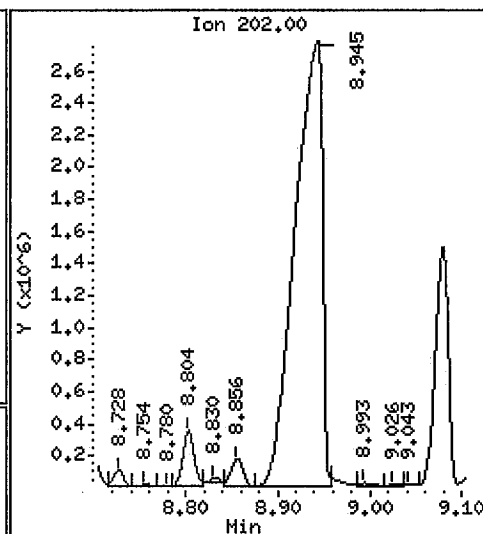
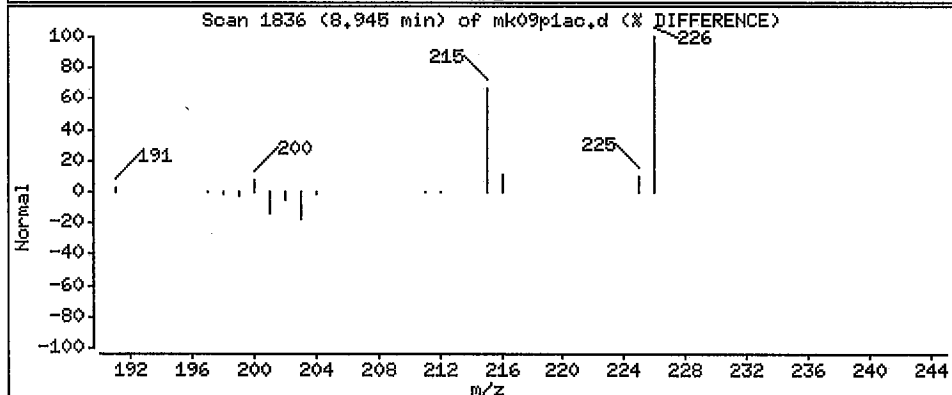
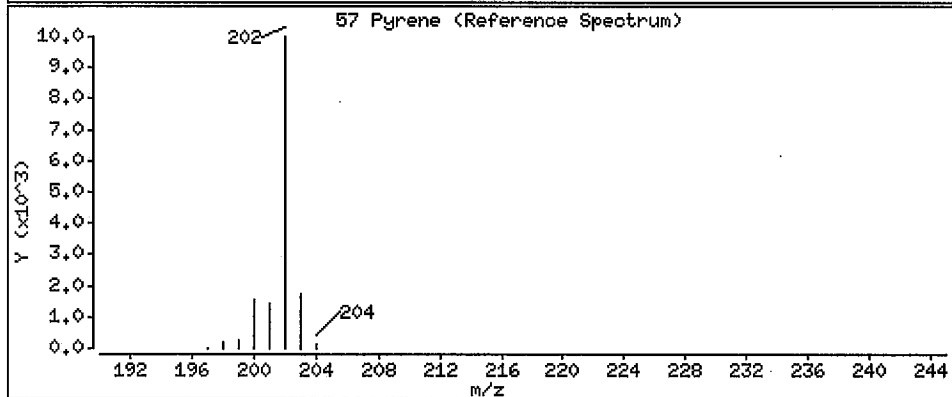
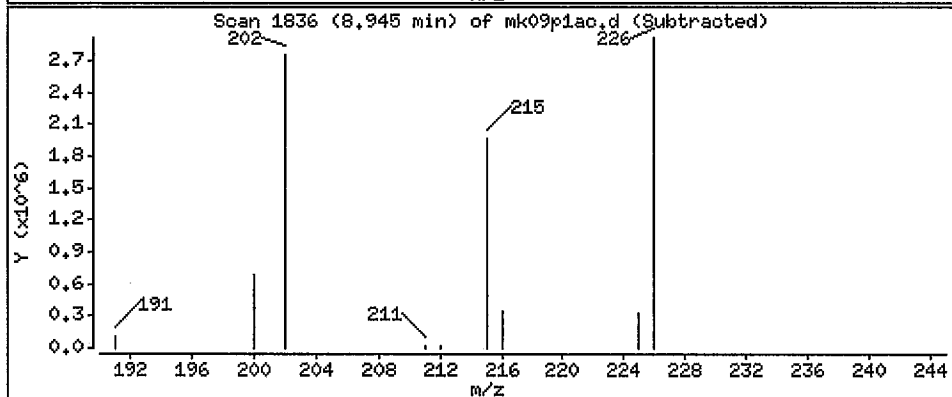
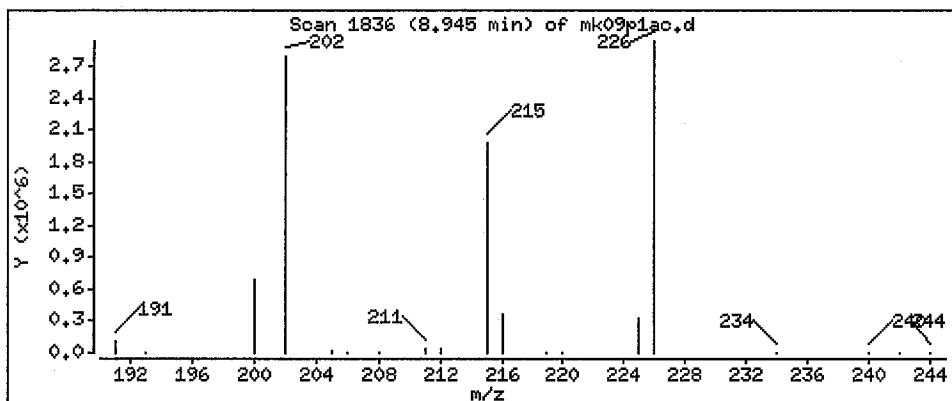
Operator: 11211

Column phase: Varian: 5MS

Column diameter: 0.25

57 Pyrene

Concentration: 4310 ng/sample



EM-BTRF-001050

Data File: /var/chem/gcms/mp.i/P072911.b/mk09plac.d

Date : 29-JUL-2011 15:54

Client ID: EXM-SRU-M0010-R1-C0

Instrument: mp.i

Sample Info: ,,0,,,

Purge Volume: 1.0

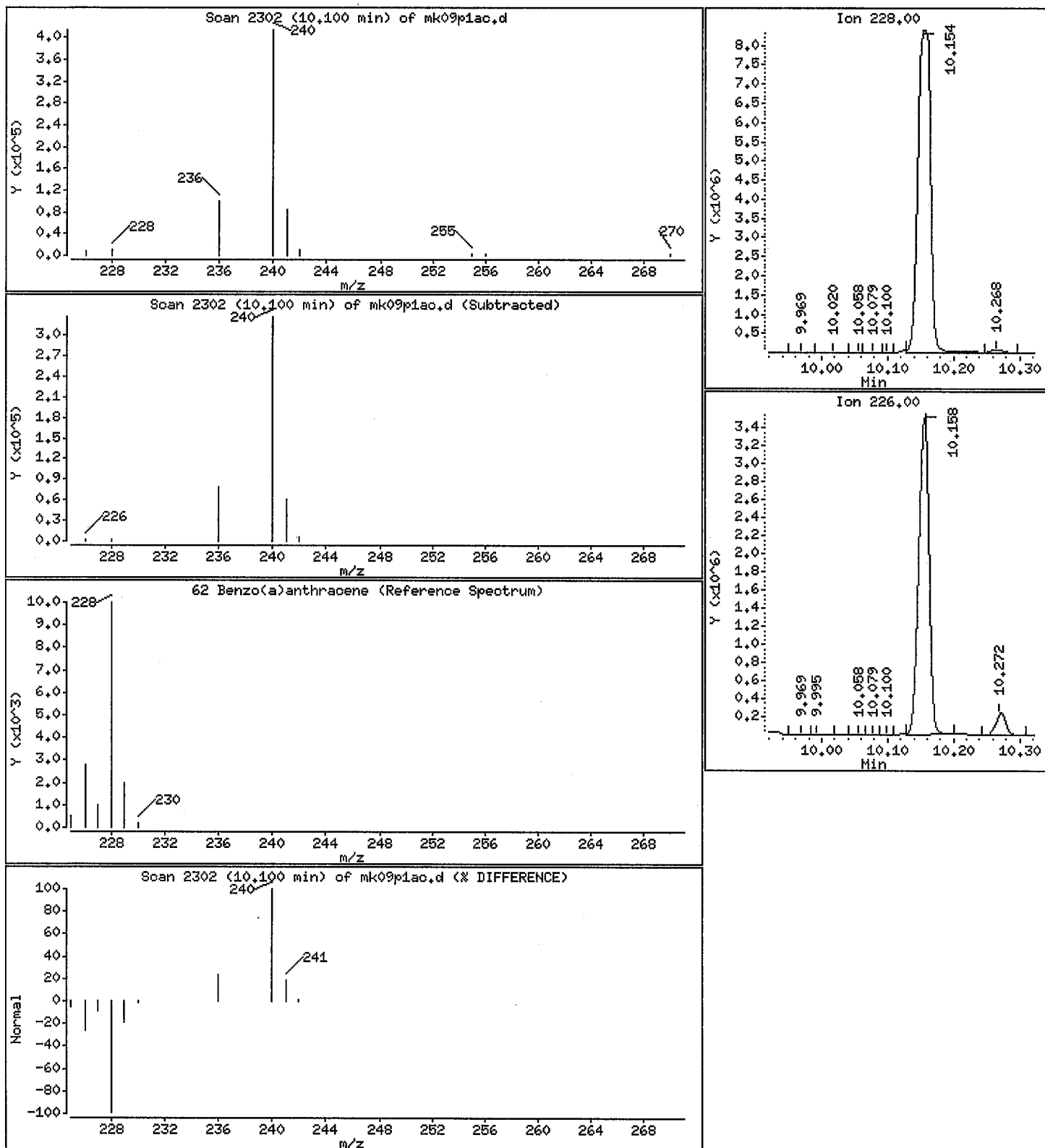
Operator: 11211

Column phase: Varian: 5MS

Column diameter: 0.25

62 Benzo(a)anthracene

Concentration: 1.63 ng/sample



EM-BTRF-001051

Data File: /var/chem/gcms/mp.i/P072911.b/mk09p1ao.d

Date : 29-JUL-2011 15:54

Client ID: EXM-SRU-M0010-R1-C0

Instrument: mp.i

Sample Info: ,,0,,,

Purge Volume: 1.0

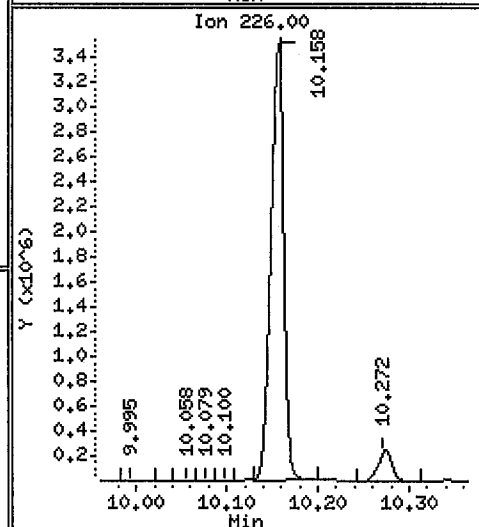
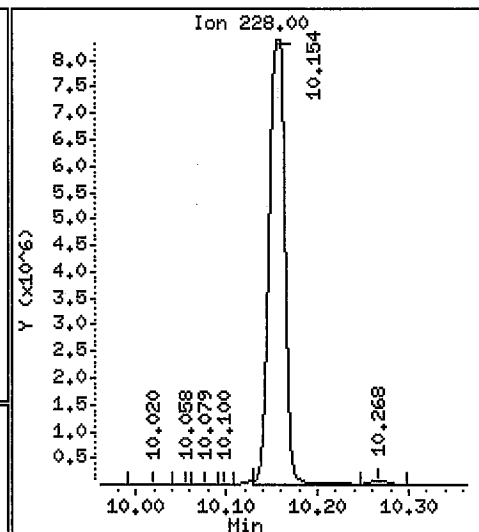
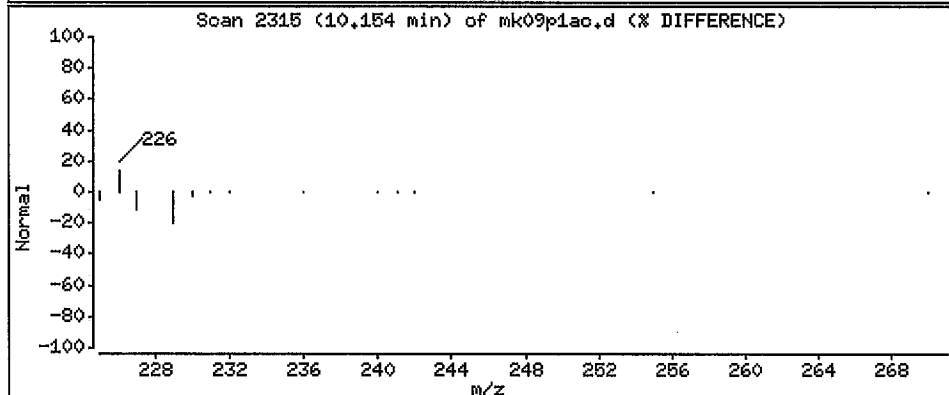
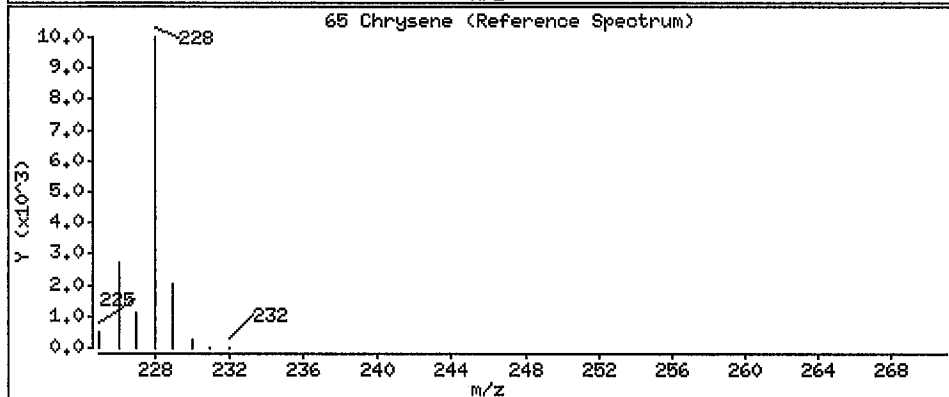
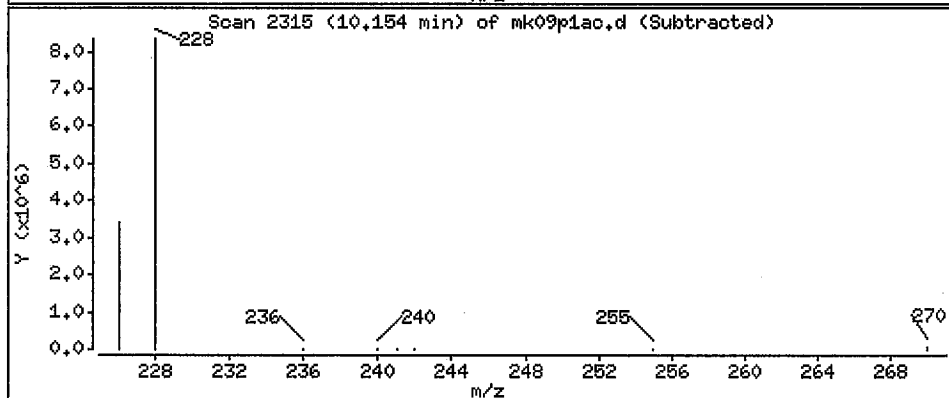
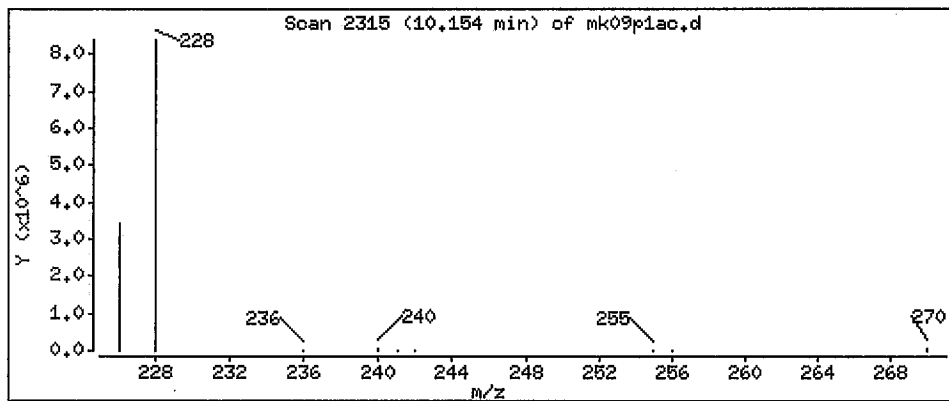
Operator: 11211

Column phase: Varian: 5MS

Column diameter: 0.25

65 Chrysene

Concentration: 12400 ng/sample



Data File: /var/chem/gcms/mp.i/P072911.b/mk09p1ao.d

Date : 29-JUL-2011 15:54

Client ID: EXM-SRU-M0010-R1-C0

Instrument: mp.i

Sample Info: ,,0,,,

Purge Volume: 1.0

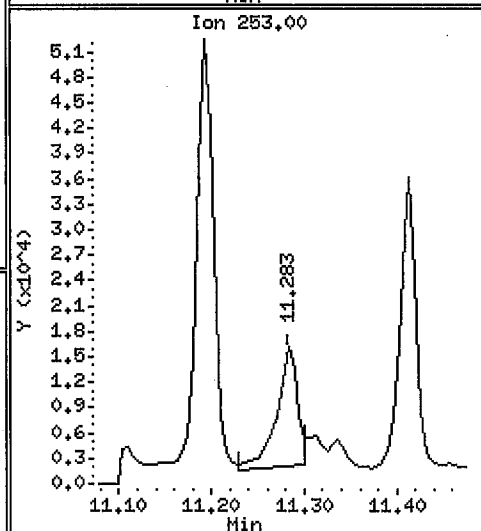
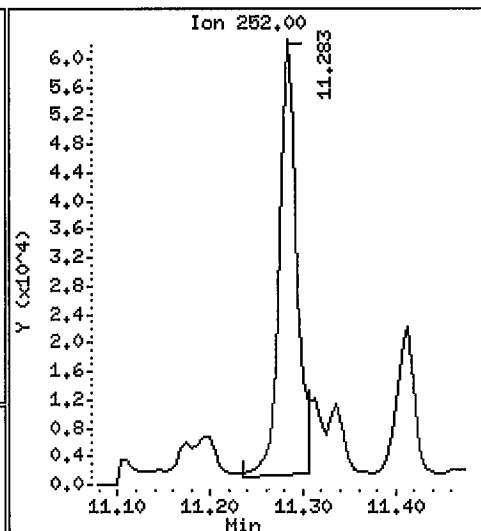
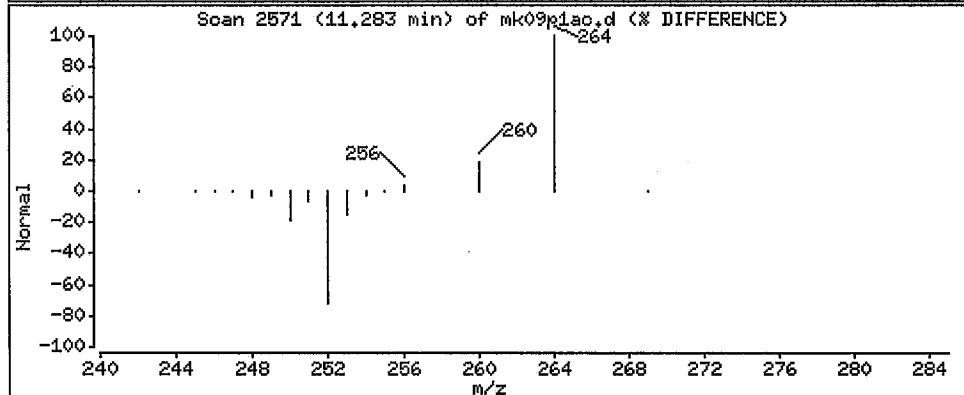
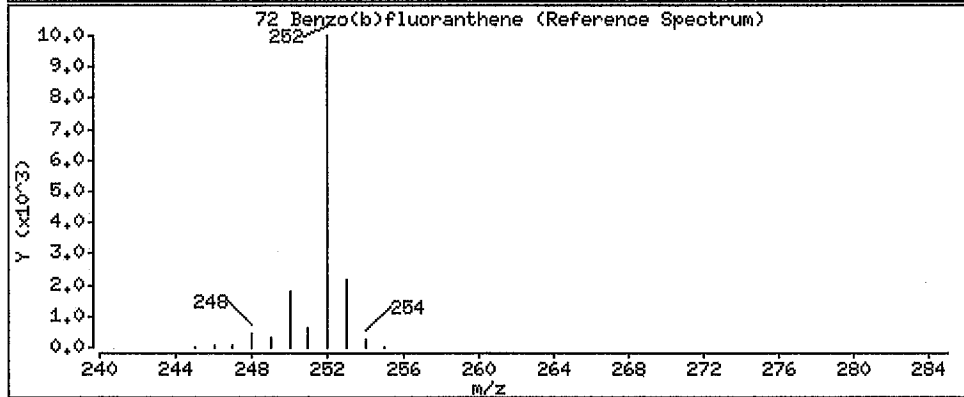
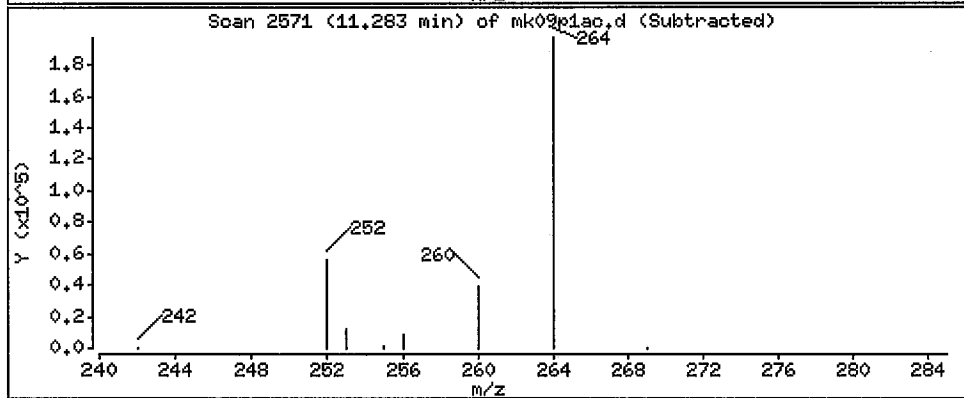
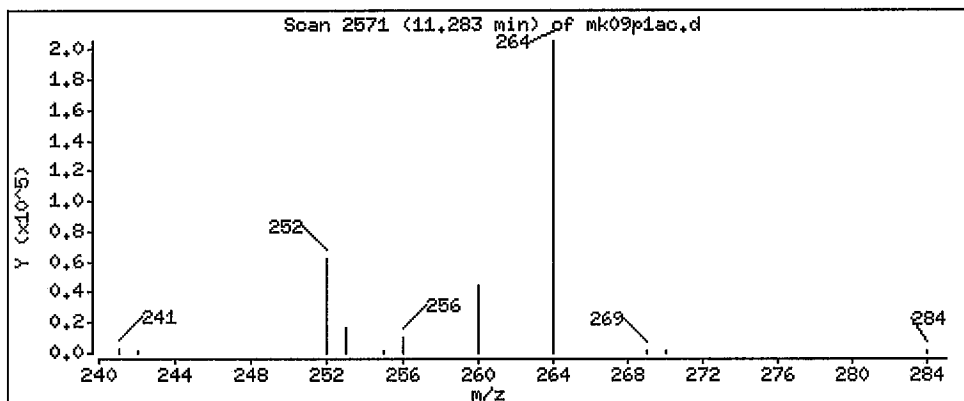
Operator: 11211

Column phase: Varian: 5MS

Column diameter: 0.25

72 Benzo(b)fluoranthene

Concentration: 67.0 ng/sample



11/28/11
C1

Data File: /var/chem/gcms/mp.i/P072911.b/mk09p1ao.d

Date : 29-JUL-2011 15:54

Client ID: EXM-SRU-M0010-R1-C0

Instrument: mp.i

Sample Info: ,,0,,,

Purge Volume: 1.0

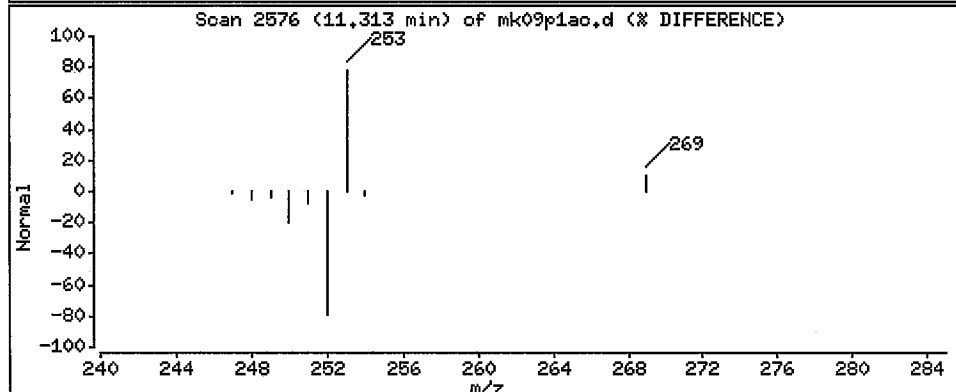
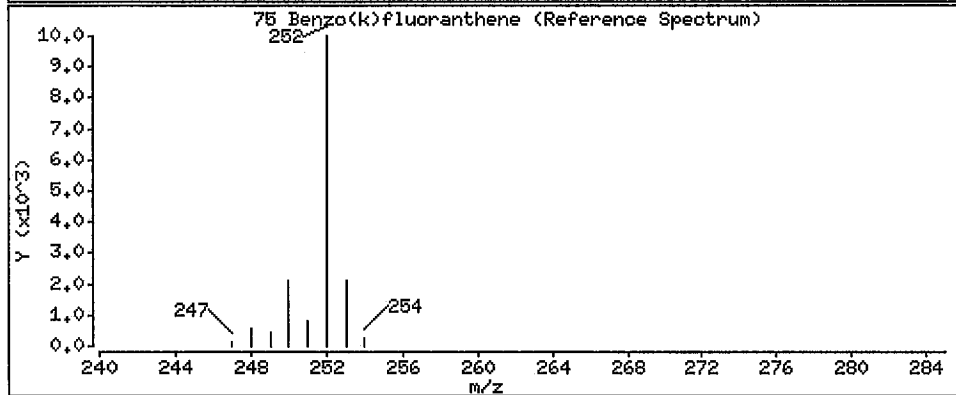
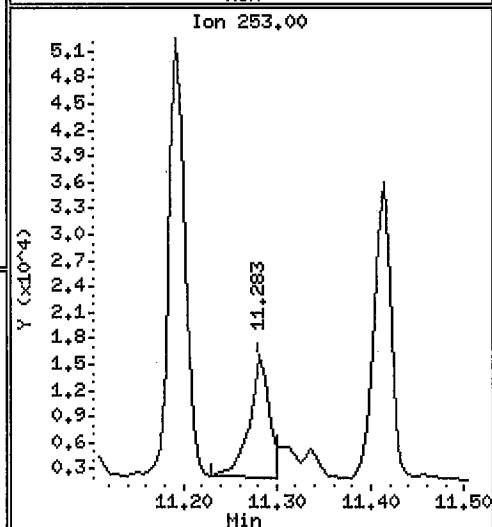
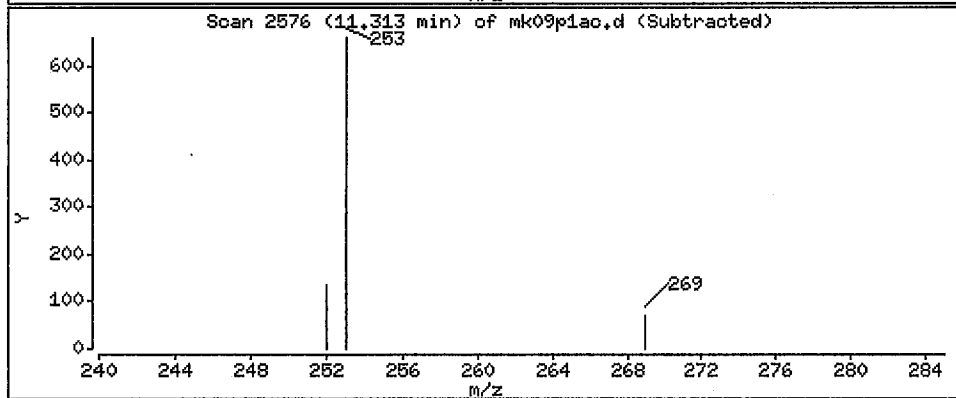
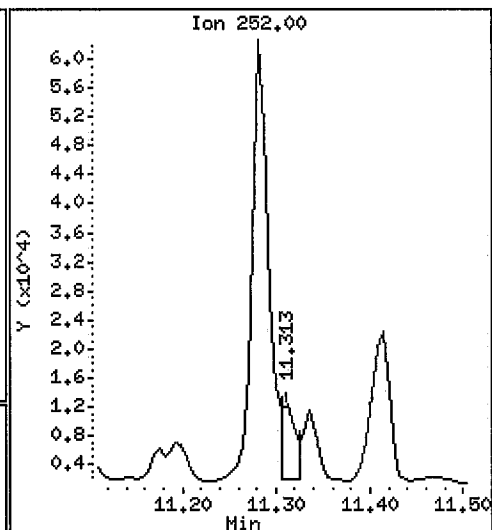
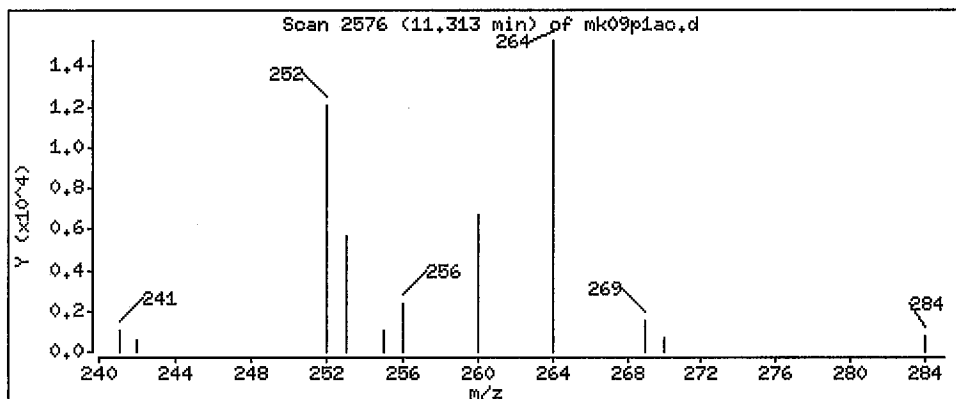
Operator: 11211

Column phase: Variant: SMS

Column diameter: 0.25

75 Benzo(k)fluoranthene

Concentration: 13.5 ng/sample



EM-BTRF-001054

Data File: /var/chem/gcms/mp.i/P072911.b/mk09p1ac.d

Date : 29-JUL-2011 15:54

Client ID: EXM-SRU-M0010-R1-C0

Instrument: mp.i

Sample Info: ,,0,,,

Purge Volume: 1.0

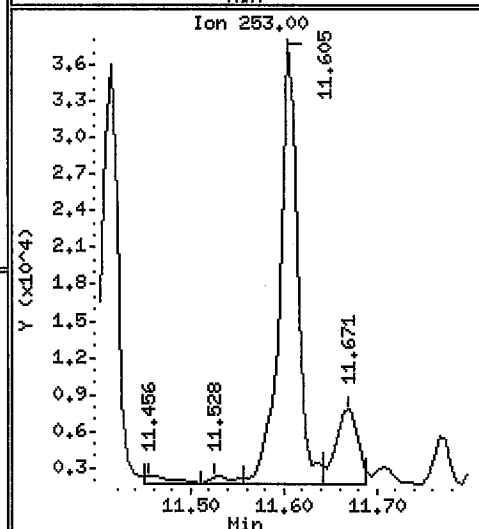
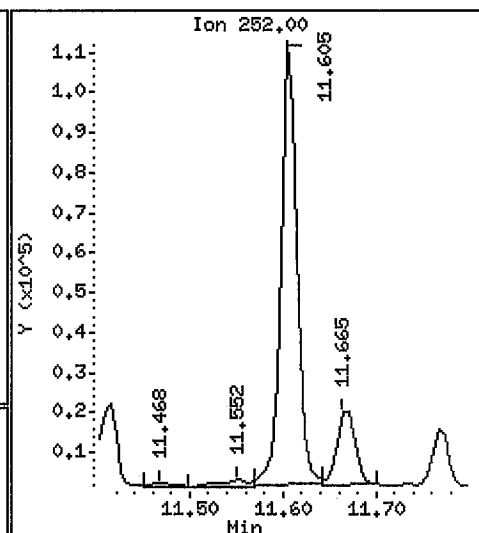
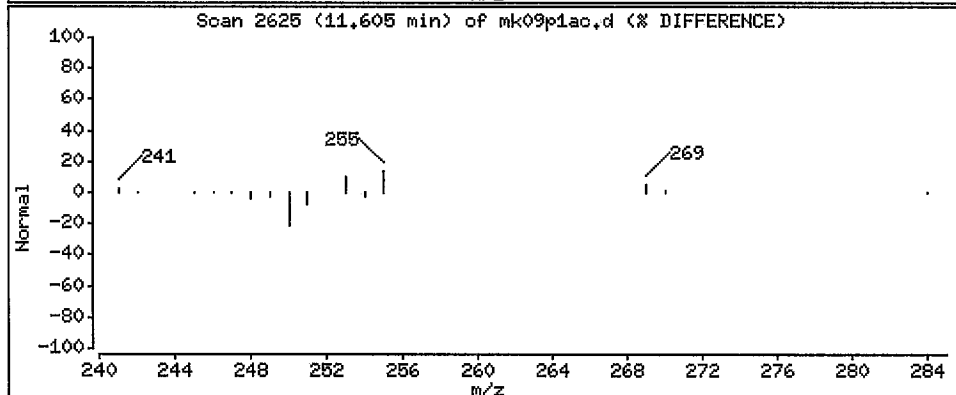
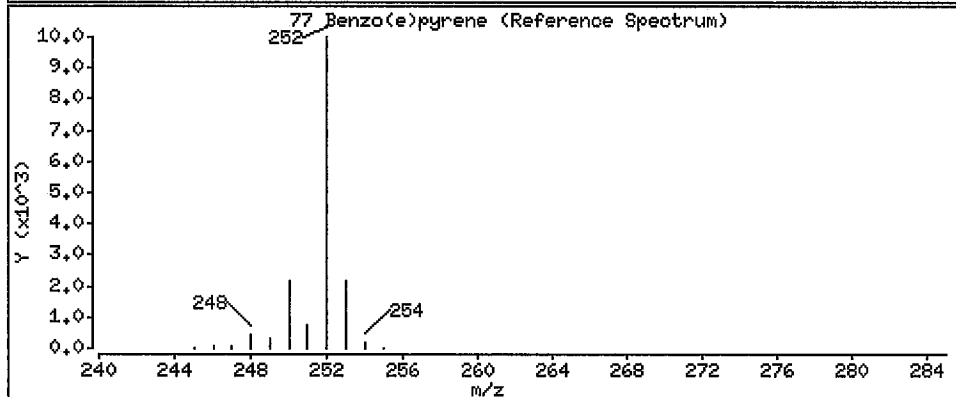
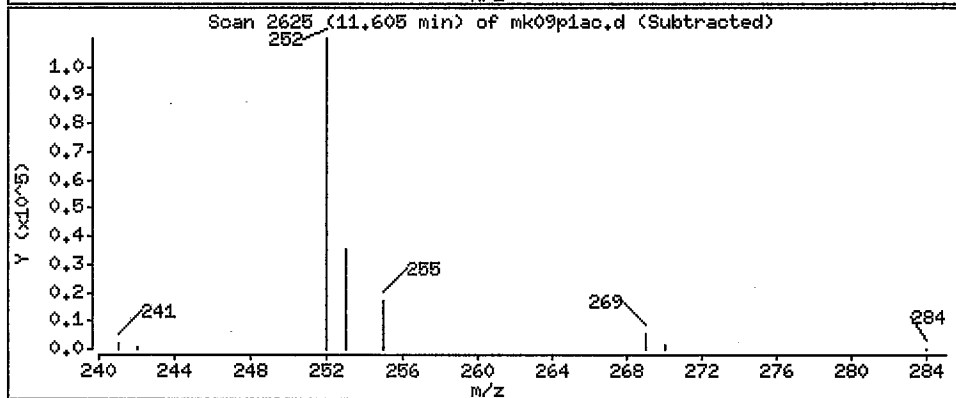
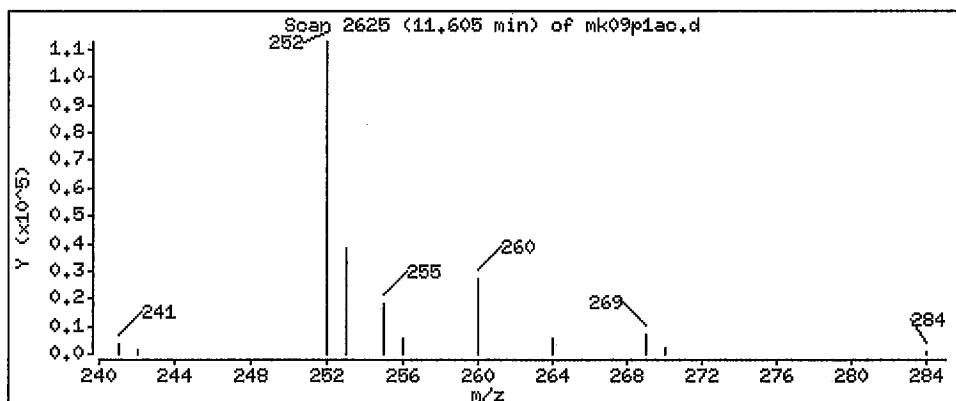
Operator: 11211

Column phase: Varian: 5MS

Column diameter: 0.25

77 Benzo(e)pyrene

Concentration: 131 ng/sample



Data File: /var/chem/gcms/mp.i/P072911.b/mk09p1ac.d

Date : 29-JUL-2011 15:54

Client ID: EXH-SRU-M0010-R1-C0

Instrument: mp.i

Sample Info: ,,0,,,

Purge Volume: 1.0

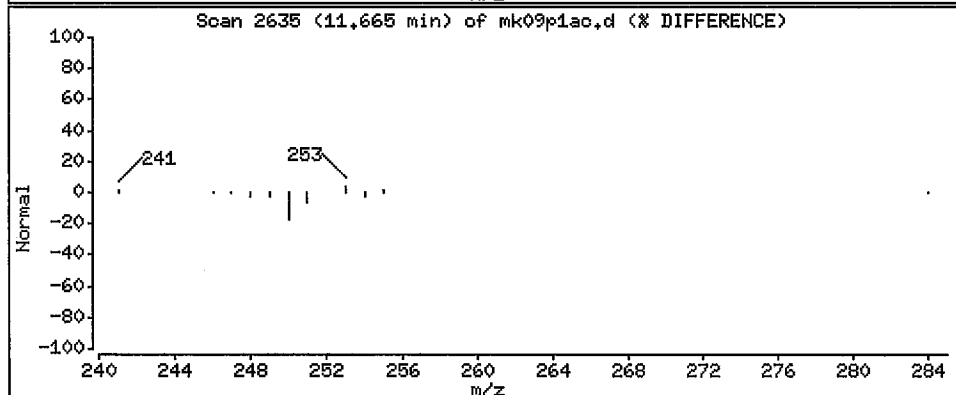
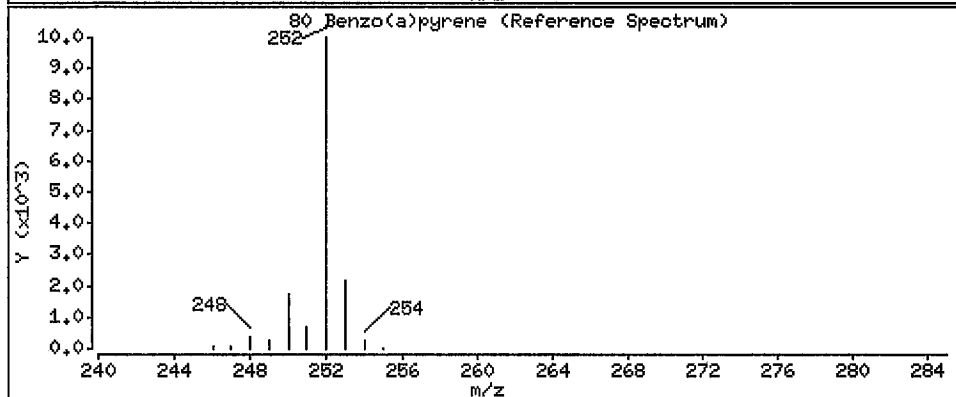
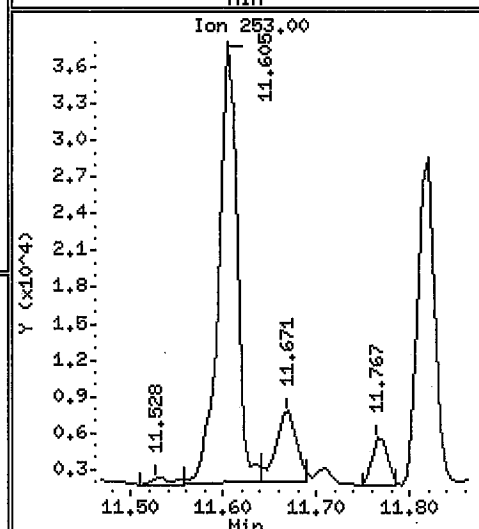
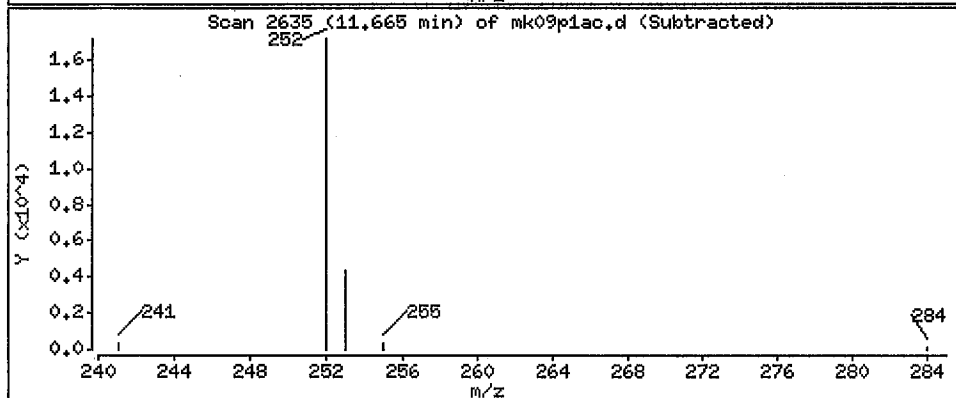
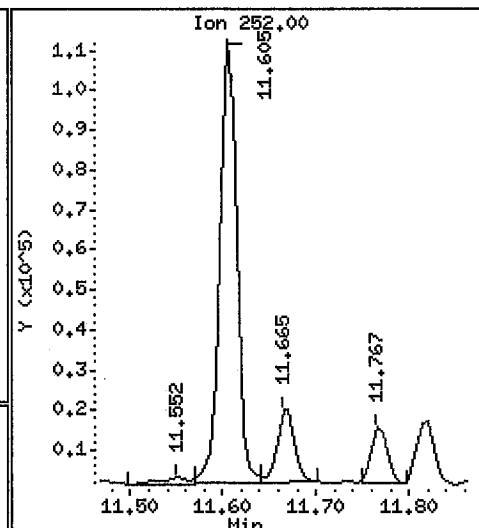
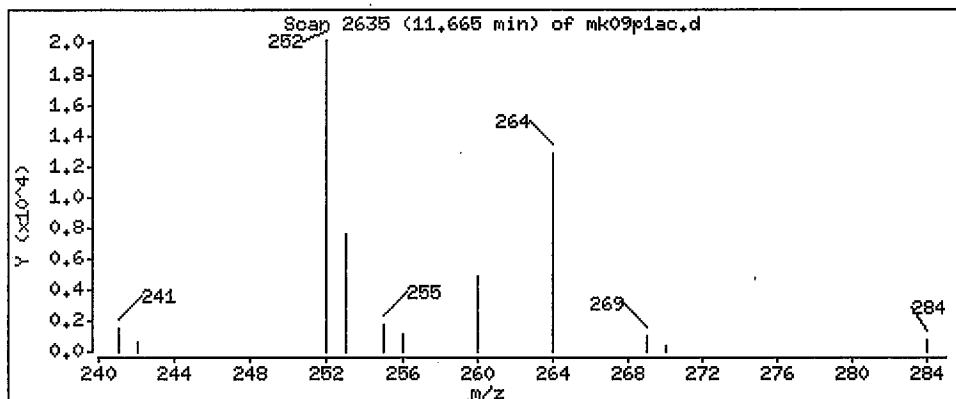
Operator: 11211

Column phase: Variant: SMS

Column diameter: 0,25

80 Benzo(a)pyrene

Concentration: 28.2 ng/sample



EM-BTRF-001056

Data File: /var/chem/gcms/mp.i/P072911.b/mk09p1ao.d

Date : 29-JUL-2011 15:54

Client ID: EXH-SRU-H0010-R1-C0

Instrument: mp.i

Sample Info: ,,0,,,

Purge Volume: 1.0

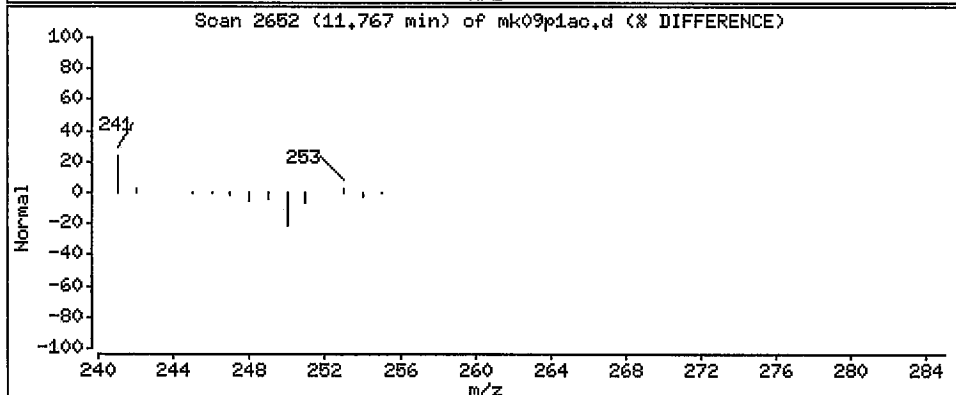
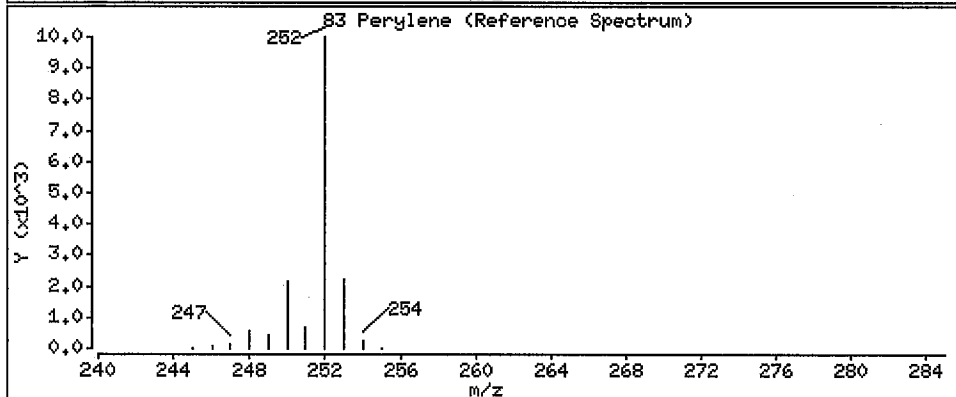
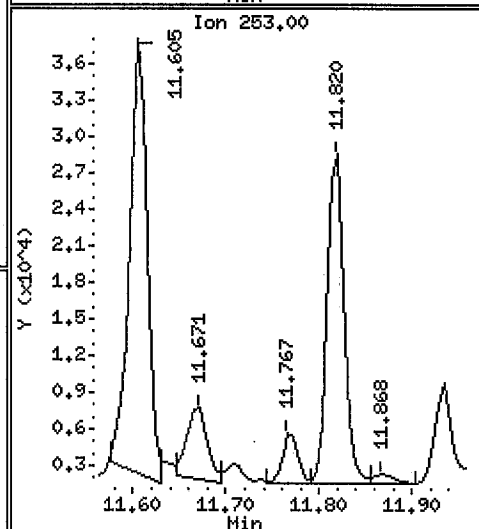
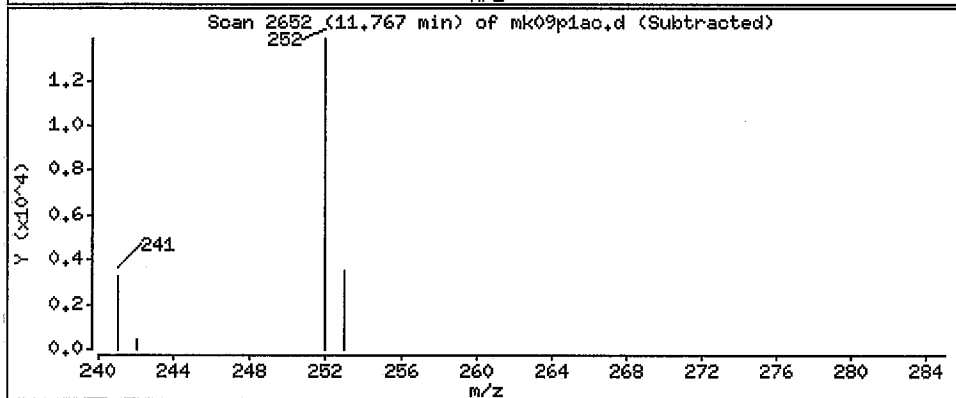
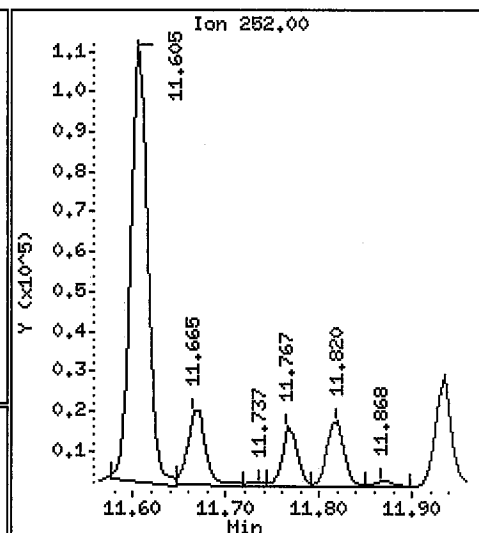
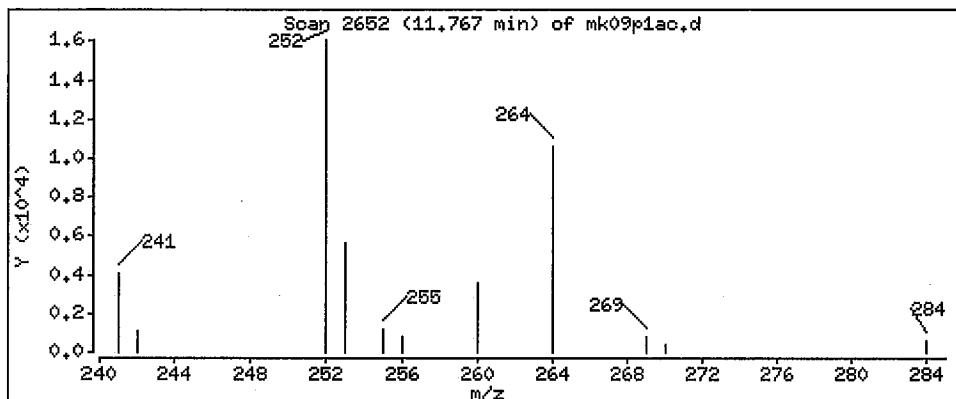
Operator: 11211

Column phase: Variant: SMS

Column diameter: 0.25

83 Perylene

Concentration: 20.5 ng/sample



EM-BTRF-001057

Data File: /var/chem/gcms/mp.i/P072911.b/mk09plac.d

Date : 29-JUL-2011 15:54

Client ID: EXH-SRU-H0010-R1-C0

Instrument: mp.i

Sample Info: ,,,0,,,

Purge Volume: 1.0

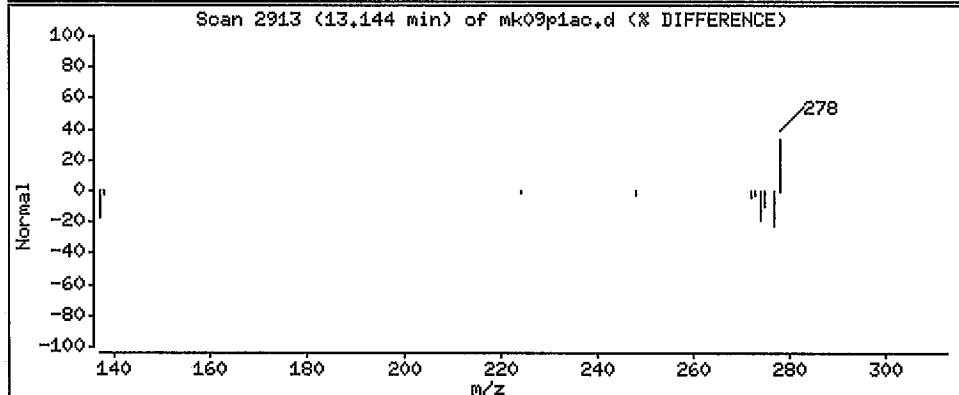
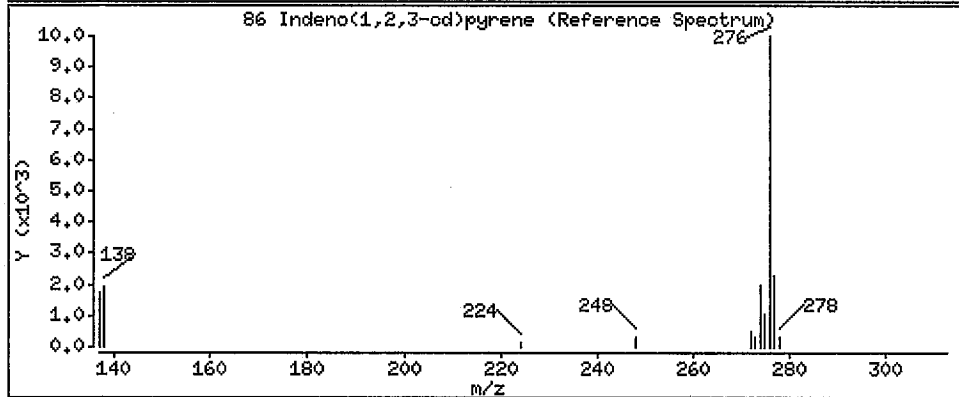
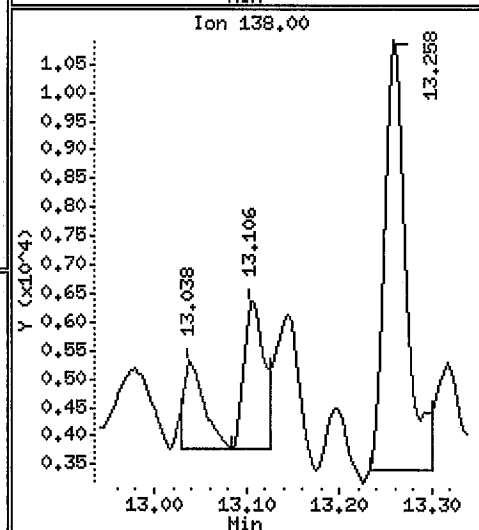
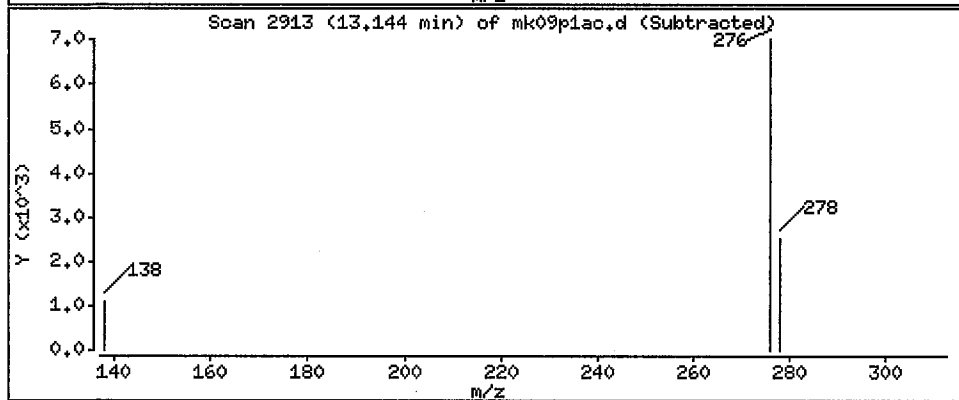
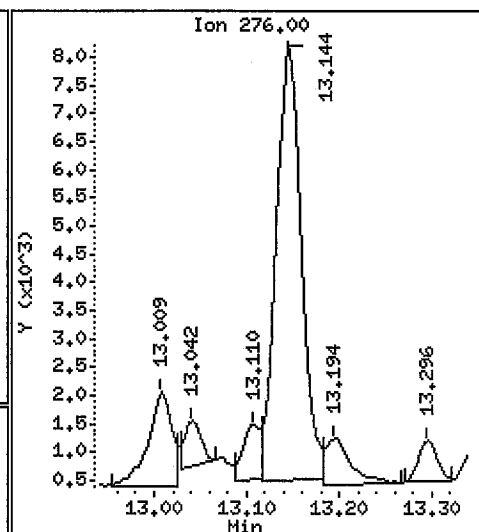
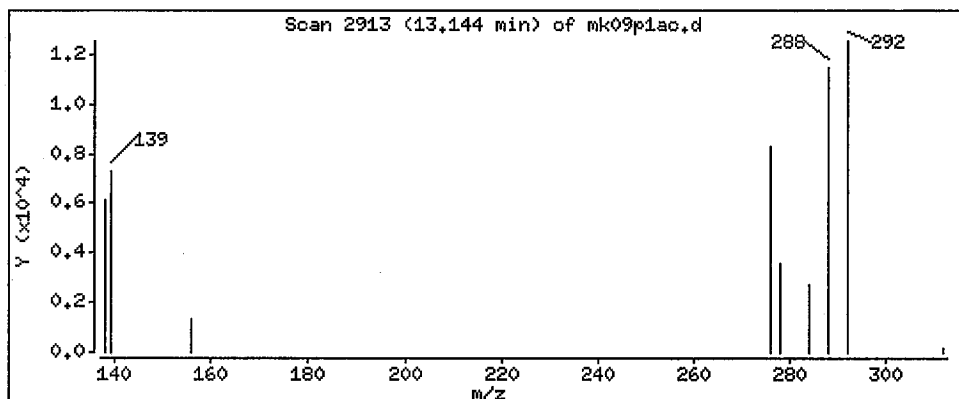
Operator: 11211

Column phase: Varian: 5MS

Column diameter: 0.25

86 Indeno(1,2,3-cd)pyrene

Concentration: 13.2 ng/sample



EM-BTRF-001058

Data File: /var/chem/gcms/mp.i/P072911.b/mk09plac.d

Date: 29-JUL-2011 15:54

Client ID: EXM-SRU-H0010-R1-C0

Instrument: mp.i

Sample Info: ,,0,,,

Purge Volume: 1.0

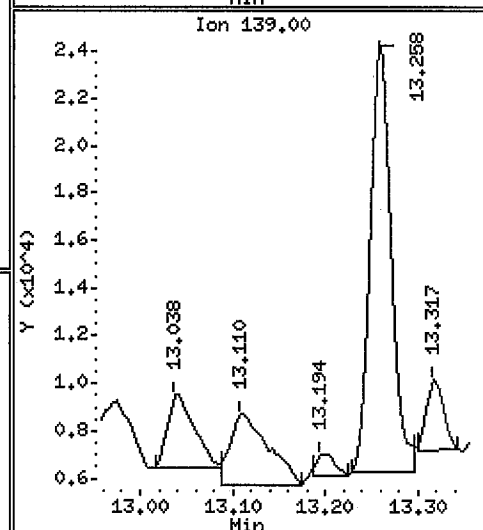
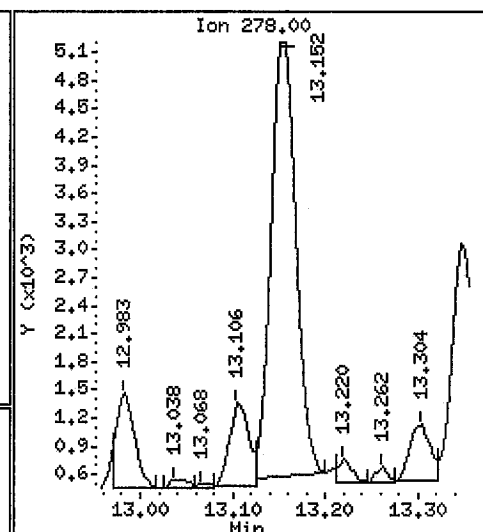
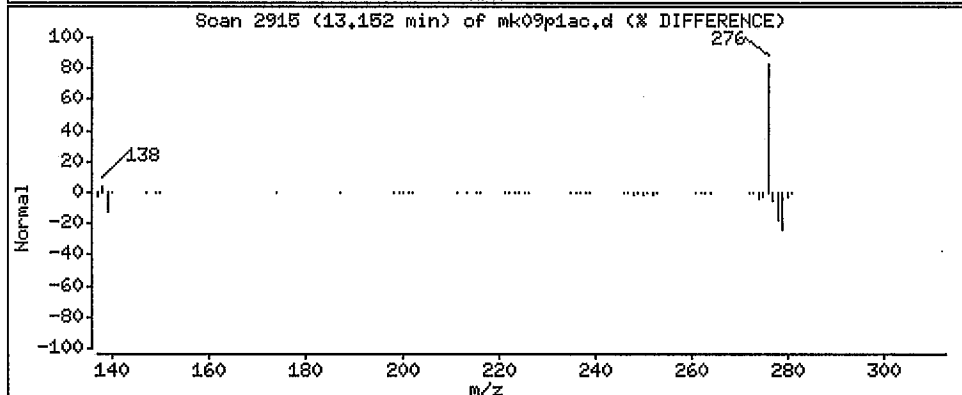
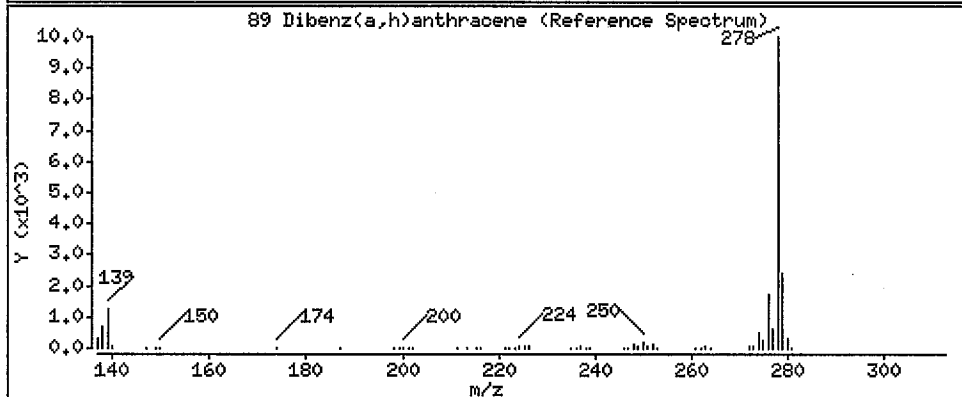
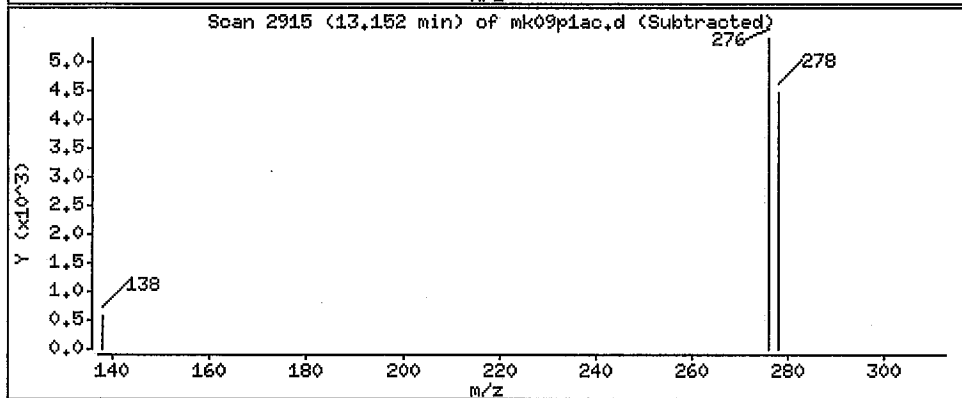
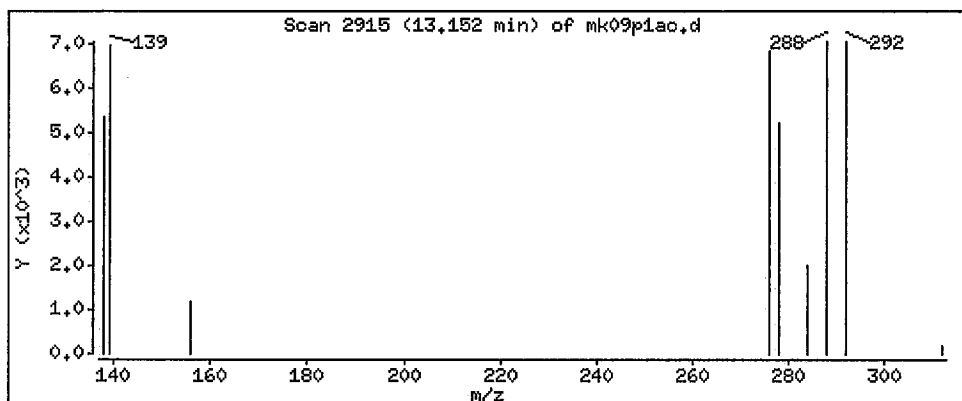
Operator: 11211

Column phase: Varian: 5MS

Column diameter: 0.25

89 Dibenz(a,h)anthracene

Concentration: 10.4 ng/sample



Data File: /var/chem/gcms/mp.i/P072911.b/mk09plac.d

Date : 29-JUL-2011 15:54

Client ID: EXH-SRU-M0010-R1-C0

Instrument: mp.i

Sample Info: ,,0,,,

Purge Volume: 1.0

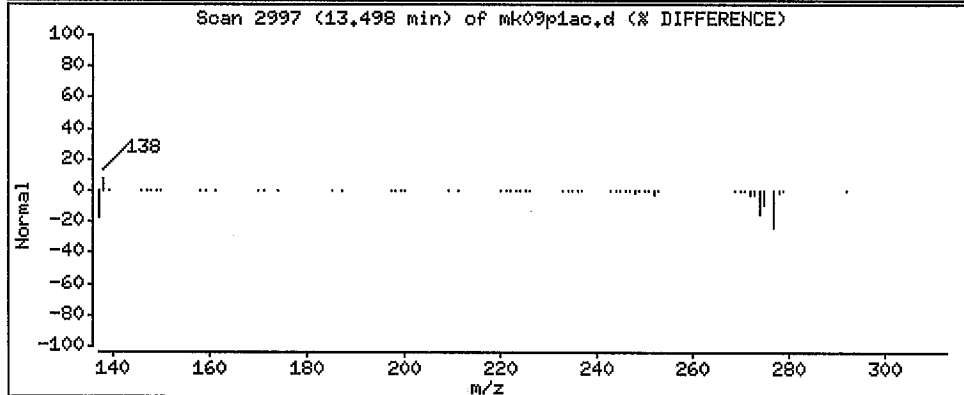
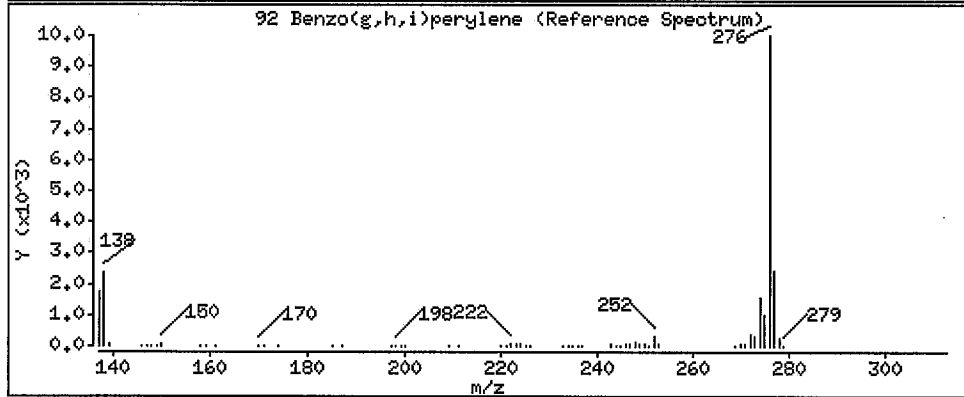
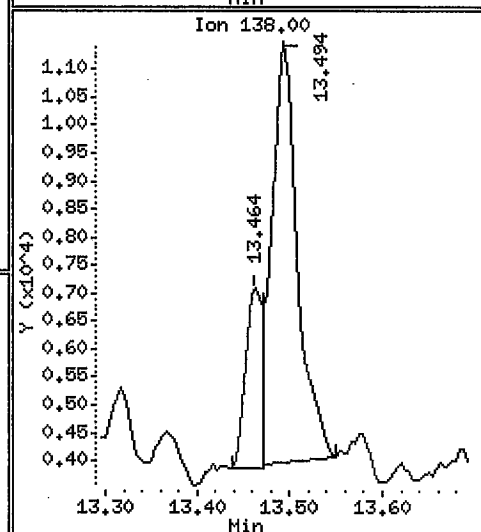
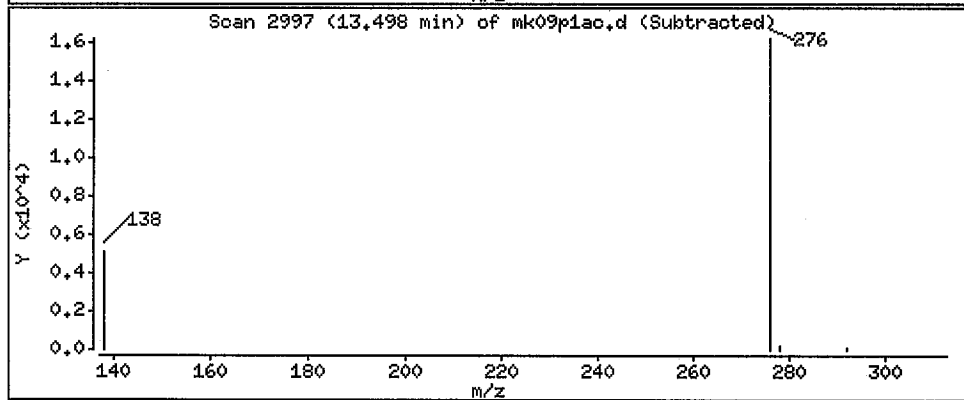
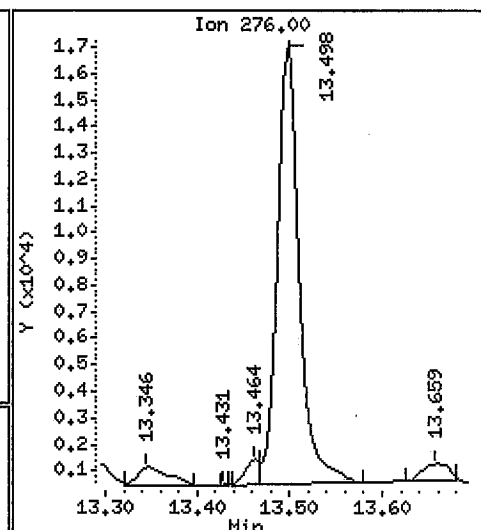
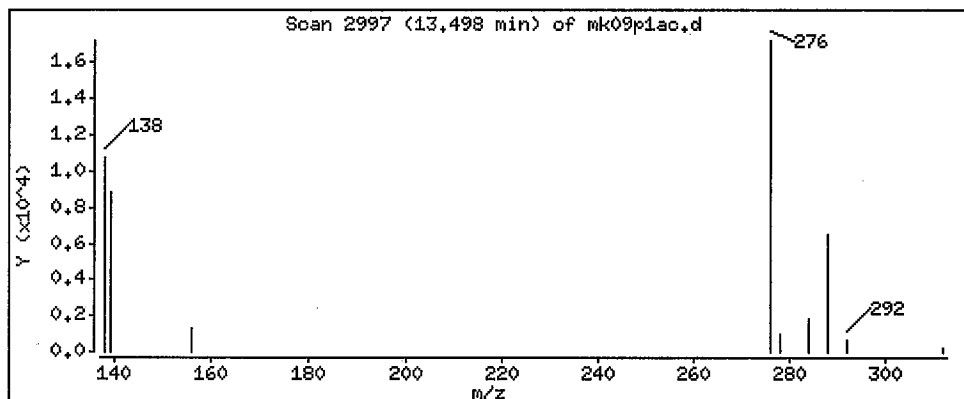
Operator: 11211

Column phase: Varian: 5MS

Column diameter: 0.25

92 Benzo(g,h,i)perylene

Concentration: 31.4 ng/sample



EM-BTRF-001060

TRC Environmental Corporation

Client Sample ID: EXM-SRU-M0010-R1-COMBINED

GC/MS Semivolatiles

Lot-Sample #...: H1G190403-001 Work Order #...: MK09P2AC Matrix.....: AIR
 Date Sampled...: 07/07/11 Date Received...: 07/19/2011
 Prep Date.....: 07/20/11 Analysis Date...: 08/03/2011
 Prep Batch #...: 1201079
 Dilution Factor: 14 Method.....: KNOX ID-0016

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Chrysene	18000 D,CI	140	ng/sample	35
Naphthalene	30000 D	5600	ng/sample	3500
Phenanthrene	8000 D	420	ng/sample	340
Internal Standard		PERCENT RECOVERY	RECOVERY LIMITS	
Naphthalene-d8	80		(30 - 120)	
Phenanthrene-d10	86		(30 - 120)	
Chrysene-d12	92		(30 - 120)	

NOTE (S) :

 CI See narrative.

D Result was obtained from the analysis of a dilution.

Data File: /var/chem/gcms/mp.i/P080311.b/mk09p2ac2.d
 Report Date: 05-Aug-2011 09:13

TestAmerica Knoxville

SEMIVOLATILE QUANTITATION REPORT

Data file : /var/chem/gcms/mp.i/P080311.b/mk09p2ac2.d
 Lab Smp Id: MK09P2AC
 Inj Date : 03-AUG-2011 20:06
 Operator : 11211
 Smp Info : MK09P2AC,,3,,D1:7
 Misc Info : P080311,SIMPAH3
 Comment :
 Method : /chem/gcms/mp.i/P080311.b/SIMPAH3.m
 Meth Date : 04-Aug-2011 15:29 cochranj
 Cal Date : 01-AUG-2011 15:19
 Als bottle: 19
 Dil Factor: 1.00000
 Integrator: HP RTE
 Target Version: 3.50
 Processing Host: qmidhp01

Inst ID: mp.i
 Quant Type: ISTD
 Cal File: ph01ic07.d
 QC Sample: D1:7
 Compound Sublist: pah.sub

Concentration Formula: Amt * DF * Sf*Vt/Vo * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Sf	1.00000	Split factor
Vt	500.00000	Volume of final extract (uL)
Vo	1.00000	Volume of sample extracted (sample)

Cpnd Variable

Local Compound Variable

		QUANT SIG				CONCENTRATIONS	
Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/ml)	FINAL (ng/sample)
=====	=====	==	=====	=====	=====	=====	=====
* 1 Naphthalene-d8	136	4.872	4.869	(1.000)	39224	0.50000	0.500
\$ 2 Naphthalene-d8 (SS)	136	4.872	4.869	(0.769)	39224	0.40142	201
3 Naphthalene	128	4.887	4.887	(1.003)	1980628	30.1180	15100
\$ 222 13C6-Naphthalene	134	4.872	4.887	(1.000)	4349	0.06002	30.0 (R)
* 10 2-Methylnaphthalene-d10	152	5.430	5.427	(1.000)	22287	0.50000	0.500
\$ 11 2-Methylnaphthalene-d10 (SS)	152	5.430	5.427	(0.857)	22287	0.41964	210
12 2-Methylnaphthalene	142	5.457	5.454	(1.005)	74231	1.66155	831
* 13 1-Methylnaphthalene-d10	152	5.510	5.510	(1.000)	22393	0.50000	0.500
\$ 14 1-Methylnaphthalene-d10 (SS)	152	5.510	5.510	(0.870)	22393	0.42379	212
15 1-Methylnaphthalene	142	5.540	5.536	(1.005)	35582	0.81953	410
16 Biphenyl	154	5.842	5.840	(1.076)	983449	18.4835	9240
* 17 2,6-Dimethylnaphthalene-d12	168	5.942	5.937	(1.000)	20730	0.50000	0.500
\$ 18 2,6-Dimethylnaph-d12 (SS)	168	5.942	5.937	(0.938)	20730	0.45551	228
19 2,6 Dimethylnaphthalene	156	5.983	5.974	(1.007)	32016	0.77698	388

Data File: /var/chem/gcms/mp.i/P080311.b/mk09p2ac2.d
Report Date: 05-Aug-2011 09:13

Compounds	QUANT SIG	CONCENTRATIONS					
		MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN FINAL (ug/ml) (ng/sample)
=====	=====	=====	==	=====	=====	=====	=====
* 20 Acenaphthylene-d8		160	6.202	6.196	(1.000)	32782	0.50000 0.500
\$ 21 Acenaphthylene-d8 (SS)		160	6.202	6.196	(0.979)	32804	0.42805 214
22 Acenaphthylene		152	6.213	6.208	(1.002)	2121	0.03270 16.3
* 23 Acenaphthene-d10		164	6.333	6.327	(1.000)	21085	0.50000 0.500
24 Acenaphthene		154	6.359	6.353	(1.025)	13409	0.35085 175
25 2,3,5 Trimethylnaphthalene		170	6.676	6.674	(1.123)	11062	0.31570 158
\$ 26 Fluorene-d10		176	6.766	6.763	(0.892)	39062	1.05070 525 (R)
27 Fluorene		166	6.790	6.788	(0.895)	109439	2.29050 1150
\$ 28 13C6-Fluorene		171	6.790	6.786	(0.895)	42682	1.03519 518 (R)
* 34 Dibenzothiophene-d8		192	7.482	7.478	(1.000)	37357	0.50000 0.500
\$ 35 Dibenzothiophene-d8 (SS)		192	7.482	7.478	(0.841)	37357	0.46856 234
36 Dibenzothiophene		184	7.497	7.495	(1.002)	457094	6.43433 3220
* 41 Phenanthrene-d10		188	7.584	7.582	(1.000)	31087	0.50000 0.500
\$ 42 Phenanthrene-d10 (SS)		188	7.584	7.582	(0.853)	31087	0.43136 216
43 Phenanthrene		178	7.605	7.603	(1.003)	542298	8.00267 4000
* 44 Anthracene-d10		188	7.634	7.632	(1.000)	26028	0.50000 0.500
\$ 45 Anthracene-d10 (SS)		188	7.634	7.632	(0.858)	26028	0.41837 209
46 Anthracene		178	7.650	7.648	(1.002)	14265	0.21945 110
\$ 47 13C6-Anthracene		184	7.650	7.646	(0.860)	24710	0.37661 188
52 1-Methylphenanthrene		192	8.153	8.150	(1.075)	4905	0.11760 58.8
* 53 Fluoranthene-d10		212	8.674	8.672	(1.000)	34427	0.50000 0.500
\$ 54 Fluoranthene-d10 (SS)		212	8.674	8.672	(0.975)	34427	0.50112 251
55 Fluoranthene		202	8.693	8.687	(1.002)	40308	0.52917 265
* 56 Pyrene-d10		212	8.893	8.891	(1.000)	28000	0.50000 0.500
57 Pyrene		202	8.921	8.908	(1.029)	781094	9.70341 4850
\$ 58 Terphenyl-d14		244	9.050	9.050	(1.043)	46604	1.35685 678 (R)
* 60 Benzo(a) anthracene-d12		240	10.108	10.108	(1.000)	21598	0.50000 0.500
\$ 61 Benzo(a) anthracene-d12 (SS)		240	10.108	10.108	(1.137)	21598	0.61014 305 (R)
62 Benzo(a) anthracene		228	10.104	10.129	(1.000)	87	0.00136 0.660
* 63 Chrysene-d12		240	10.142	10.142	(1.000)	25743	0.50000 0.500
\$ 64 Chrysene-d12 (SS)		240	10.142	10.142	(1.140)	25743	0.45914 230
65 Chrysene		228	10.154	10.167	(1.001)	1021426	18.0391 9020
* 70 Benzo(b) fluoranthene-d12		264	11.265	11.259	(1.000)	21399	0.50000 0.500
\$ 71 Benzo(b) fluoranthene-d12 (SS)		264	11.265	11.259	(0.973)	21399	0.53597 268
72 Benzo(b) fluoranthene		252	11.295	11.289	(1.003)	4749	0.07995 40.0
* 73 Benzo(k) fluoranthene-d12		264	11.301	11.295	(1.000)	25330	0.50000 0.500
\$ 74 Benzo(k) fluoranthene-d12 (SS)		264	11.301	11.295	(0.976)	25330	0.45350 227
75 Benzo(k) fluoranthene		252	11.295	11.319	(0.999)	4785	0.08555 42.8 SNR
* 76 Benzo(e) pyrene-d12		264	11.581	11.581	(1.000)	18746	0.50000 0.500
77 Benzo(e) pyrene		252	11.617	11.611	(0.997)	8244	0.17900 89.5
* 78 Benzo(a) pyrene-d12		264	11.653	11.647	(1.000)	17976	0.50000 0.500
\$ 79 Benzo(a) pyrene-d12 (SS)		264	11.653	11.647	(1.006)	17976	0.43470 217
80 Benzo(a) pyrene		252	11.677	11.671	(1.002)	1379	0.03481 17.4
* 81 Perylene-d12		264	11.749	11.743	(1.000)	16394	0.50000 0.500
\$ 82 Perylene-d12 (SS)		264	11.749	11.743	(1.014)	16394	0.40927 205
83 Perylene		252	11.773	11.773	(1.002)	859	0.02101 10.5
* 84 Indeno(123-cd) pyrene-d12		288	13.127	13.118	(1.000)	22253	0.50000 0.500

Data File: /var/chem/gcms/mp.i/P080311.b/mk09p2ac2.d
 Report Date: 05-Aug-2011 09:13

Compounds	QUANT SIG						CONCENTRATIONS	
	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN	FINAL	
=====	=====	==	=====	=====	=====	(ug/ml)	(ng/sample)	
\$ 85 Indeno(123-cd)pyrene-d12(SS)	288	13.127	13.118	(1.133)	22253	0.49188	246	
86 Indeno(1,2,3-cd)pyrene	276	13.156	13.152	(1.002)	803	0.01530	7.65	
* 87 Dibenz(ah)anthracene-d14	292	13.131	13.123	(1.000)	16322	0.50000	0.500	
\$ 88 Dibenz(ah)anthracene-d14(SS)	292	13.131	13.123	(1.134)	16322	0.47767	239	
89 Dibenz(a,h)anthracene	278	13.173	13.169	(1.003)	432	0.01105	5.53	
* 90 Benzo(ghi)perylene-d12	288	13.477	13.469	(1.000)	15709	0.50000	0.500	
\$ 91 Benzo(ghi)perylene-d12(SS)	288	13.477	13.469	(1.164)	15709	0.46397	232	
92 Benzo(g,h,i)perylene	276	13.511	13.502	(1.002)	1533	0.03594	18.0	

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

7/28/11

Data File: /var/chem/gcms/mp.i/P080311.b/mk09p2ac2.d
 Report Date: 05-Aug-2011 10:42

TestAmerica Knoxville

SEMIVOLATILE QUANTITATION REPORT

Data file : /var/chem/gcms/mp.i/P080311.b/mk09p2ac2.d
 Lab Smp Id: MK09P2AC
 Inj Date : 03-AUG-2011 20:06
 Operator : 11211
 Smp Info : MK09P2AC,,3,,D1:7
 Misc Info : P080311,SIMPAH3
 Comment :
 Method : /var/chem/gcms/mp.i/P080311.b/SIMPAH3.m
 Meth Date : 05-Aug-2011 09:34 cochranj
 Cal Date : 01-AUG-2011 15:19
 Als bottle: 19
 Dil Factor: 1.00000
 Integrator: HP RTE
 Target Version: 3.50
 Processing Host: qmidhp01

Inst ID: mp.i
 Quant Type: ISTD
 Cal File: ph01ic07.d
 QC Sample: D1:7
 Compound Sublist: pah.sub

Concentration Formula: Amt * DF * Sf*Vt/Vo * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Sf	2.00000	Split factor
Vt	500.00000	Volume of final extract (uL)
Vo	1.00000	Volume of sample extracted (sample)

7x bench d:1
7/28/11

Cpnd Variable

Local Compound Variable

		QUANT SIG				CONCENTRATIONS	
Compounds	MASS	RT	EXP RT REL RT	RESPONSE	ON-COLUMN (ug/ml)	FINAL (ng/sample)	
=====	=====	==	=====	=====	=====	=====	
* 1 Naphthalene-d8	136	4.872	4.869 (1.000)	39224	0.50000	0.500	
\$ 2 Naphthalene-d8 (SS)	136	4.872	4.869 (0.769)	39224	0.40142	401	
3 Naphthalene	128	4.887	4.887 (1.003)	1980628	30.1184	30100	D
* 10 2-Methylnaphthalene-d10	152	5.430	5.427 (1.000)	22287	0.50000	0.500	
\$ 11 2-Methylnaphthalene-d10 (SS)	152	5.430	5.427 (0.857)	22287	0.41963	420	
12 2-Methylnaphthalene	142	5.457	5.454 (1.005)	74231	1.66160	1660	
* 13 1-Methylnaphthalene-d10	152	5.510	5.510 (1.000)	22393	0.50000	0.500	
\$ 14 1-Methylnaphthalene-d10 (SS)	152	5.510	5.510 (0.870)	22393	0.42379	424	
15 1-Methylnaphthalene	142	5.540	5.536 (1.005)	35582	0.81954	820	
16 Biphenyl	154	5.842	5.840 (1.076)	983449	18.4842	18500	
* 17 2,6-Dimethylnaphthalene-d12	168	5.942	5.937 (1.000)	20730	0.50000	0.500	
\$ 18 2,6-Dimethylnaph-d12 (SS)	168	5.942	5.937 (0.938)	20730	0.45551	456	
19 2,6 Dimethylnaphthalene	156	5.983	5.974 (1.007)	32016	0.77698	777	
* 20 Acenaphthylene-d8	160	6.202	6.196 (1.000)	32782	0.50000	0.500	

7/28/11

Data File: /var/chem/gcms/mp.i/P080311.b/mk09p2ac2.d

Report Date: 05-Aug-2011 10:42

Compounds	QUANT SIG	MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN	FINAL
							(ug/ml)	(ng/sample)
=====	=====	=====	=====	=====	=====	=====	=====	=====
\$ 21 Acenaphthylene-d8 (SS)		160	6.202	6.196	(0.979)	32804	0.42805	428
22 Acenaphthylene		152	6.213	6.208	(1.002)	2121	0.03268	32.7
* 23 Acenaphthene-d10		164	6.333	6.327	(1.000)	21085	0.50000	0.500
24 Acenaphthene		154	6.359	6.353	(1.025)	13409	0.35083	351
25 2,3,5 Trimethylnaphthalene		170	6.676	6.674	(1.123)	11062	0.31568	316
\$ 26 Fluorene-d10		176	6.766	6.763	(0.892)	39062	1.05070	1050
27 Fluorene		166	6.790	6.788	(0.895)	109439	2.29053	2290
\$ 28 13C6-Fluorene		171	6.790	6.786	(0.895)	42682	1.03521	1040
* 34 Dibenzothiophene-d8		192	7.482	7.478	(1.000)	37357	0.50000	0.500
\$ 35 Dibenzothiophene-d8 (SS)		192	7.482	7.478	(0.841)	37357	0.46855	469
36 Dibenzothiophene		184	7.497	7.495	(1.002)	457094	6.43444	6430 D
* 41 Phenanthrene-d10		188	7.584	7.582	(1.000)	31087	0.50000	0.500
\$ 42 Phenanthrene-d10 (SS)		188	7.584	7.582	(0.853)	31087	0.43136	431
43 Phenanthrene		178	7.605	7.603	(1.003)	542298	8.00282	8000 D
* 44 Anthracene-d10		188	7.634	7.632	(1.000)	26028	0.50000	0.500
\$ 45 Anthracene-d10 (SS)		188	7.634	7.632	(0.858)	26028	0.41837	418
46 Anthracene		178	7.650	7.648	(1.002)	14265	0.21944	219
\$ 47 13C6-Anthracene		184	7.650	7.646	(0.860)	24710	0.37661	377
52 1-Methylphenanthrene		192	8.153	8.150	(1.075)	4905	0.11758	118
* 53 Fluoranthene-d10		212	8.674	8.672	(1.000)	34427	0.50000	0.500
\$ 54 Fluoranthene-d10 (SS)		212	8.674	8.672	(0.975)	34427	0.50111	501
55 Fluoranthene		202	8.693	8.687	(1.002)	40308	0.52917	529
* 56 Pyrene-d10		212	8.893	8.891	(1.000)	28000	0.50000	0.500
57 Pyrene		202	8.921	8.908	(1.029)	781094	9.70362	9700
\$ 58 Terphenyl-d14		244	9.050	9.050	(1.043)	46604	1.35685	1360 (R)
* 60 Benzo(a)anthracene-d12		240	10.108	10.108	(1.000)	21598	0.50000	0.500
\$ 61 Benzo(a)anthracene-d12 (SS)		240	10.108	10.108	(1.137)	21598	0.61014	610 (R)
* 63 Chrysene-d12		240	10.142	10.142	(1.000)	25743	0.50000	0.500
\$ 64 Chrysene-d12 (SS)		240	10.142	10.142	(1.140)	25743	0.45914	459
65 Chrysene		228	10.154	10.167	(1.001)	1021426	18.0393	18000 D
* 70 Benzo(b)fluoranthene-d12		264	11.265	11.259	(1.000)	21399	0.50000	0.500
\$ 71 Benzo(b)fluoranthene-d12 (SS)		264	11.265	11.259	(0.973)	21399	0.53597	536
72 Benzo(b)fluoranthene		252	11.295	11.289	(1.003)	4749	0.07994	79.9
* 73 Benzo(k)fluoranthene-d12		264	11.301	11.295	(1.000)	25330	0.50000	0.500
\$ 74 Benzo(k)fluoranthene-d12 (SS)		264	11.301	11.295	(0.976)	25330	0.45350	453
75 Benzo(k)fluoranthene		252	11.312	11.319	(1.001)	951	0.01700	17.0 (M)
* 76 Benzo(e)pyrene-d12		264	11.581	11.581	(1.000)	18746	0.50000	0.500
77 Benzo(e)pyrene		252	11.617	11.611	(0.997)	8244	0.17900	179
* 78 Benzo(a)pyrene-d12		264	11.653	11.647	(1.000)	17976	0.50000	0.500
\$ 79 Benzo(a)pyrene-d12 (SS)		264	11.653	11.647	(1.006)	17976	0.43469	435
80 Benzo(a)pyrene		252	11.677	11.671	(1.002)	1379	0.03480	34.8
* 81 Perylene-d12		264	11.749	11.743	(1.000)	16394	0.50000	0.500
\$ 82 Perylene-d12 (SS)		264	11.749	11.743	(1.014)	16394	0.40926	409
83 Perylene		252	11.773	11.773	(1.002)	859	0.02099	21.0
* 84 Indeno(123-cd)pyrene-d12		288	13.127	13.118	(1.000)	22253	0.50000	0.500
\$ 85 Indeno(123-cd)pyrene-d12 (SS)		288	13.127	13.118	(1.133)	22253	0.49186	492
86 Indeno(1,2,3-cd)pyrene		276	13.156	13.152	(1.002)	803	0.01529	15.3

Data File: /var/chem/gcms/mp.i/P080311.b/mk09p2ac2.d

Report Date: 05-Aug-2011 10:42

Compounds	QUANT SIG						CONCENTRATIONS	
	MASS	RT	EXP RT	REL RT	RESPONSE		ON-COLUMN (ug/ml)	FINAL (ng/sample)
=====	=====	==	=====	=====	=====		=====	=====
* 87 Dibenz (ah) anthracene-d14	292	13.131	13.123	(1.000)	16322		0.50000	0.500
\$ 88 Dibenz (ah) anthracene-d14 (SS)	292	13.131	13.123	(1.134)	16322		0.47767	478
89 Dibenz (a,h) anthracene	278	13.173	13.169	(1.003)	432		0.01105	11.0
* 90 Benzo (ghi) perylene-d12	288	13.477	13.469	(1.000)	15709		0.50000	0.500
\$ 91 Benzo (ghi) perylene-d12 (SS)	288	13.477	13.469	(1.164)	15709		0.46396	464
92 Benzo (g,h,i) perylene	276	13.511	13.502	(1.002)	1533		0.03594	35.9

QC Flag Legend

R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

Data File: /var/chem/gcms/mp.i/P080311.b/mk09p2ac2.d
 Report Date: 05-Aug-2011 10:42

TestAmerica Knoxville

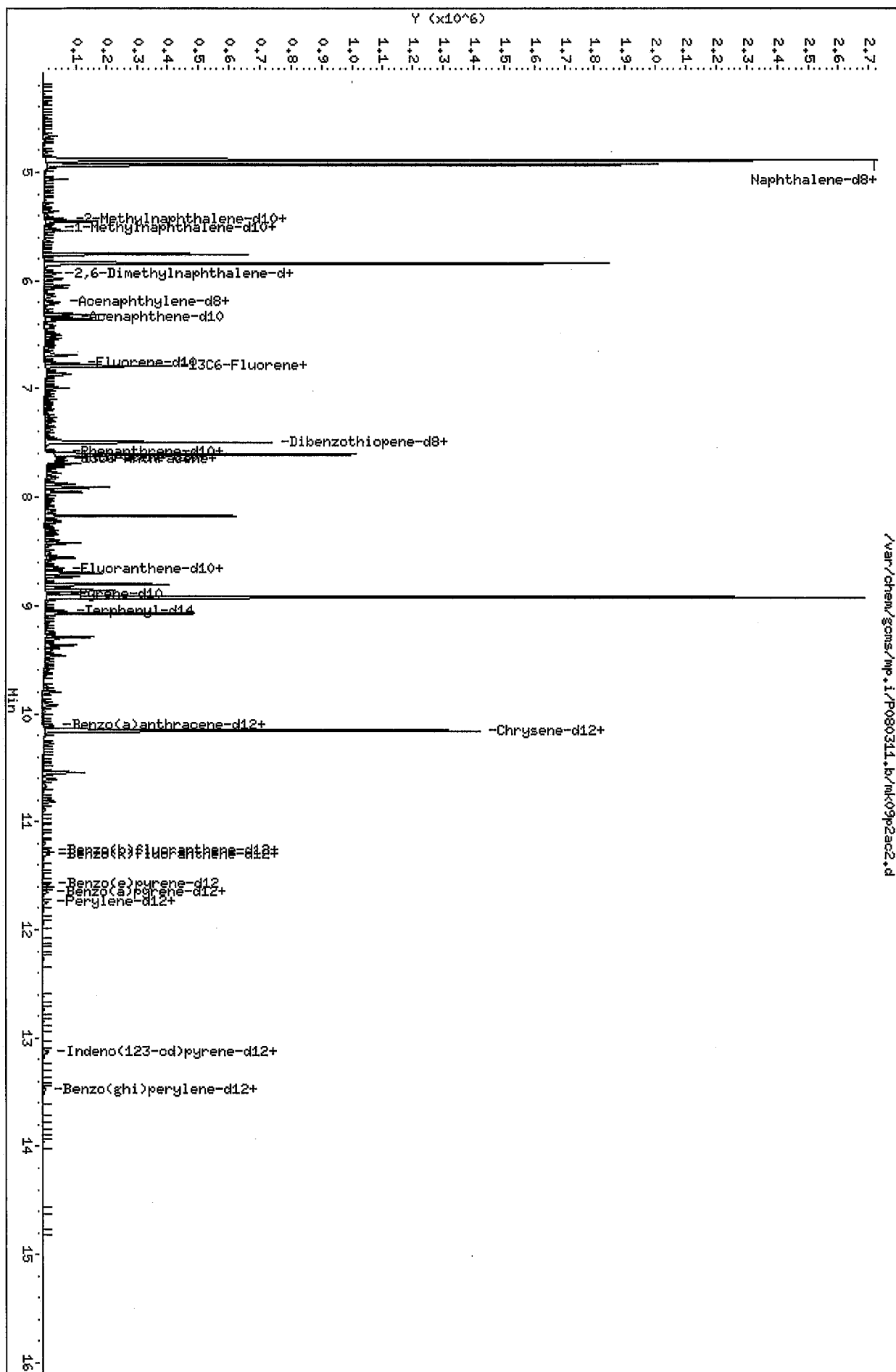
RECOVERY REPORT

Client Name: ITS BUR Client SDG: P080311
 Sample Matrix: GAS Fraction: SV
 Lab Smp Id: MK09P2AC
 Level: LOW Operator: 11211
 Data Type: MS DATA SampleType: D1:7
 SpikeList File: icv.spk Quant Type: ISTD
 Sublist File: pah.sub
 Method File: /var/chem/gcms/mp.i/P080311.b/SIMPAH3.m
 Misc Info: P080311,SIMPAH3

SURROGATE COMPOUND	CONC ADDED ng/sample	CONC RECOVERED ng/sample	% RECOVERED	LIMITS
\$ 2 Naphthalene-d8 (SS)	500	401	80.28	30-120
\$ 222 13C6-Naphthalene	500	0.00	*	50-150
\$ 11 2-Methylnaphthalen	500	420	83.93	30-120
\$ 14 1-Methylnaphthalen	500	424	84.76	30-120
\$ 18 2,6-Dimethylnaph-d	500	456	91.10	30-120
\$ 21 Acenaphthylene-d8 (	500	428	85.61	30-120
\$ 26 Fluorene-d10	1000	1050	105.07	30-120
\$ 28 13C6-Fluorene	1000	1040	103.52	30-120
\$ 35 Dibenzothiopene-d8	500	469	93.71	30-120
\$ 42 Phenanthrene-d10 (S	500	431	86.27	30-120
\$ 45 Anthracene-d10 (SS)	500	418	83.67	30-120
\$ 47 13C6-Anthracene	500	377	75.32	30-120
\$ 54 Fluoranthene-d10 (S	500	501	100.22	0-120
\$ 58 Terphenyl-d14	1000	1360	135.68*	30-120
\$ 61 Benzo (a) anthracene	500	610	122.03*	30-120
\$ 64 Chrysene-d12 (SS)	500	459	91.83	30-120
\$ 71 Benzo (b) fluoranthe	500	536	107.19	30-120
\$ 74 Benzo (k) fluoranthe	500	453	90.70	30-120
\$ 79 Benzo (a) pyrene-d12	500	435	86.94	30-120
\$ 82 Perylene-d12 (SS)	500	409	81.85	30-120
\$ 85 Indeno (123-cd) pyre	500	492	98.37	30-120
\$ 88 Dibenz (ah) anthrace	500	478	95.53	30-120
\$ 91 Benzo (ghi) perylene	500	464	92.79	30-120

Data File: /var/chem/gcms/mp.i/P080311.b/mk09p2ac2.d
 Date : 03-AUG-2011 20:06
 Client ID:
 Sample Info: MK09P2AC,3,,D1:7
 Purge Volume: 1.0
 Column phase: Vian: SHS

Instrument: mp.i
 Operator: 11211
 Column diameter: 0.25



Data File: /var/chem/gcms/mp.i/P080311.b/mk09p2ac2.d

Date : 03-AUG-2011 20:06

Client ID:

Instrument: mp.i

Sample Info: MK09P2AC,,3,,D1:7

Purge Volume: 1.0

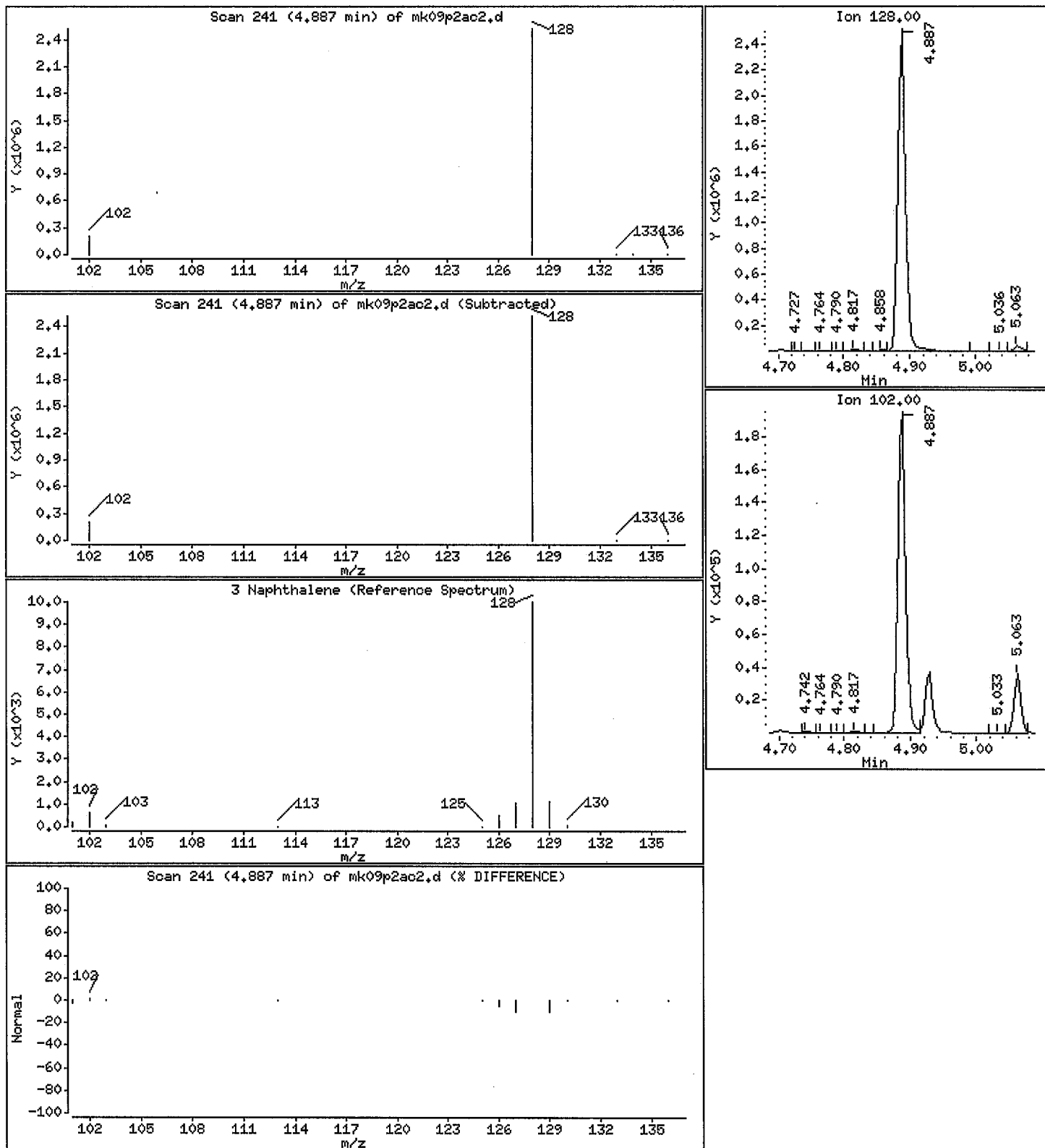
Operator: 11211

Column phase: Variant 5MS

Column diameter: 0.25

3 Naphthalene

Concentration: 30100 ng/sample



EM-BTRF-001070

Data File: /var/chem/gcms/mp.i/P080311.b/mk09p2ao2.d

Date : 03-AUG-2011 20:06

Client ID:

Instrument: mp.i

Sample Info: MK09P2AC,,3,,D1:7

Purge Volume: 1.0

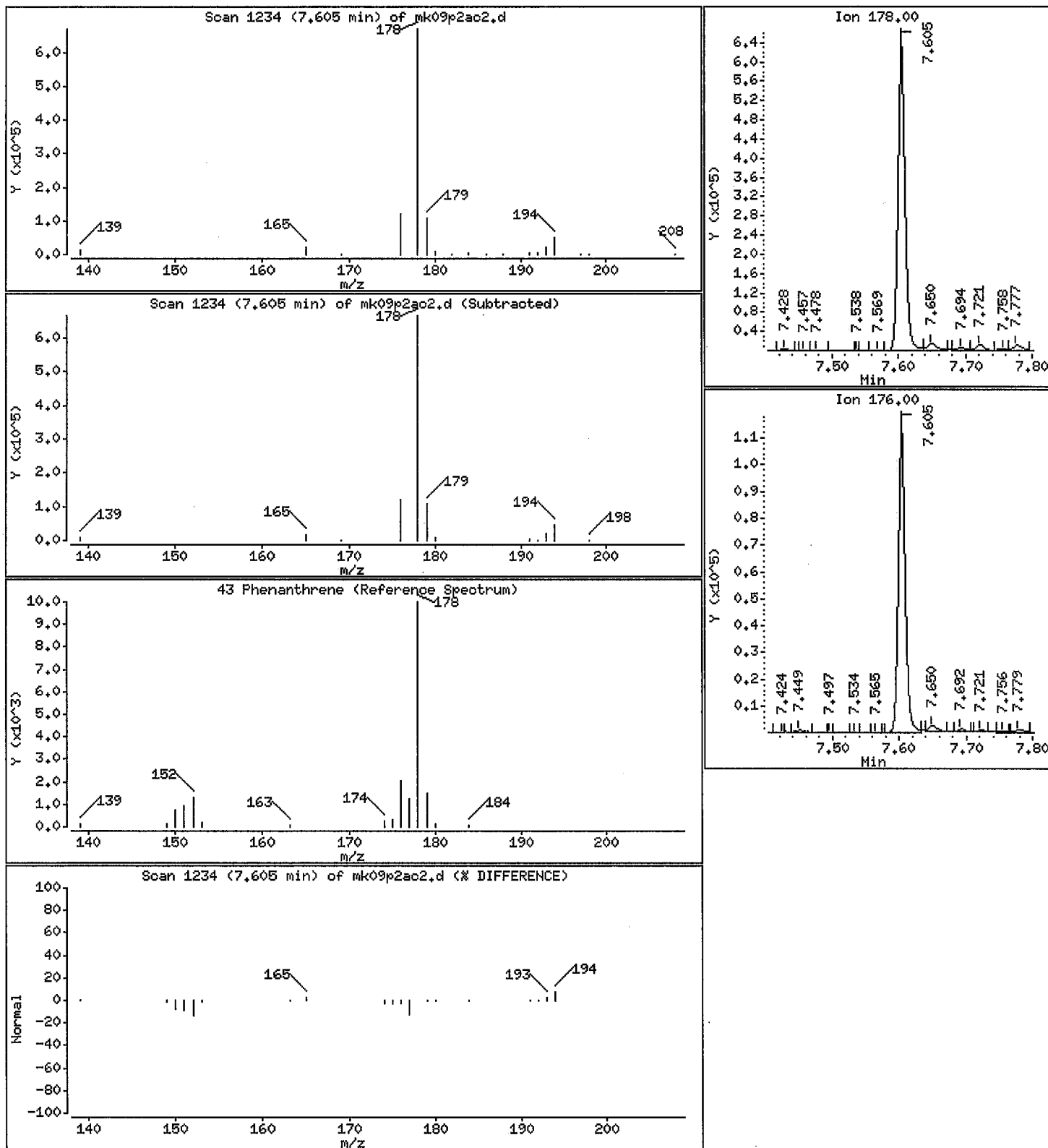
Operator: 11211

Column phase: Variant: 5MS

Column diameter: 0,25

43 Phenanthrene

Concentration: 8000 ng/sample



EM-BTRF-001071

Data File: /var/chem/gcms/mp.i/P080311.b/mk09p2ao2.d

Date : 03-AUG-2011 20:06

Client ID:

Instrument: mp.i

Sample Info: MK09P2AC,,3,,D1:7

Purge Volume: 1.0

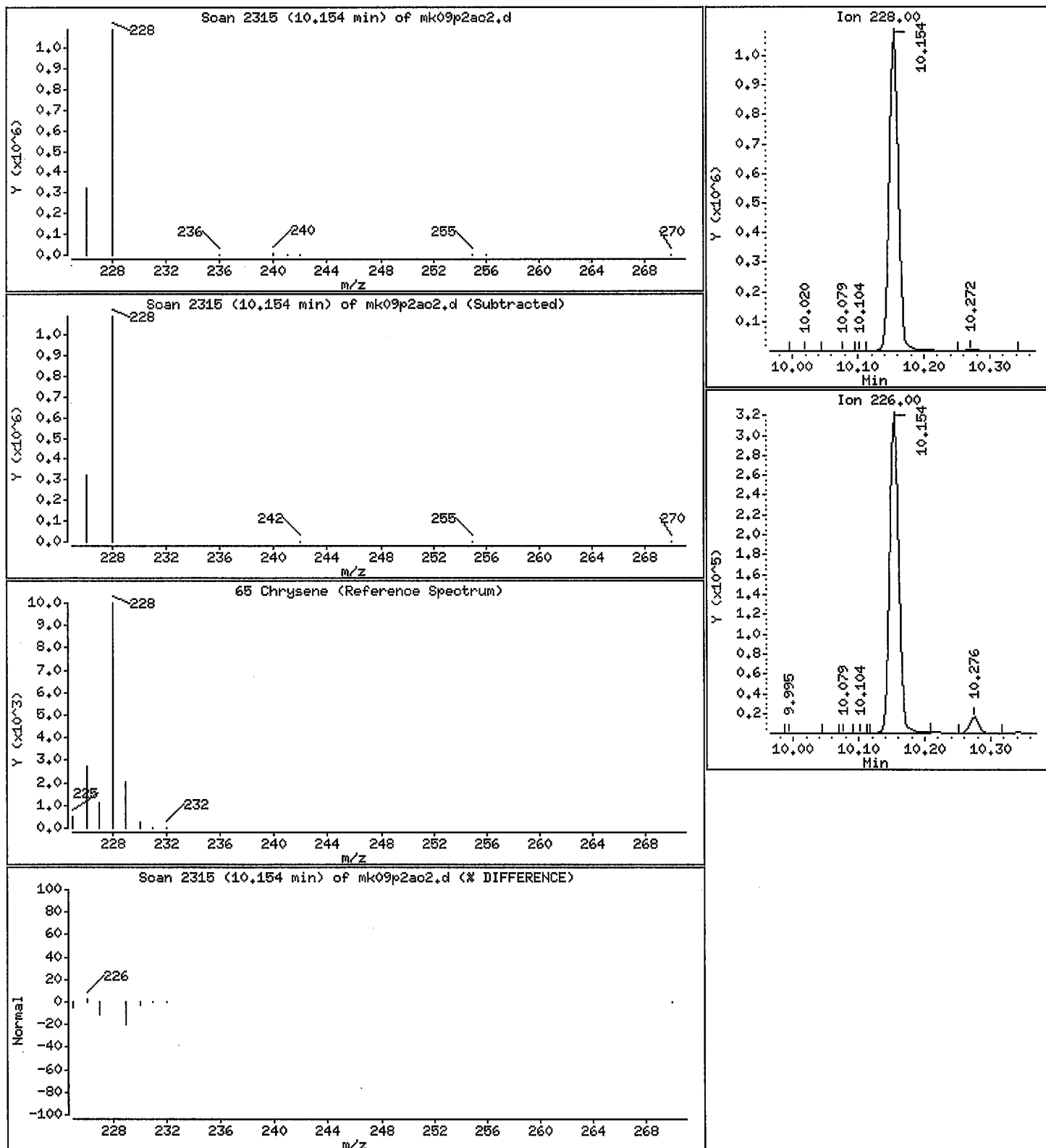
Operator: 11211

Column phase: Varian: 5MS

Column diameter: 0.25

65 Chrysene

Concentration: 18000 ng/sample



EM-BTRF-001072

TRC Environmental Corporation

Client Sample ID: EXM-SRU-M0010-R2-COMBINED

GC/MS Semivolatiles

Lot-Sample #...: H1G190403-002 Work Order #...: MK09Q1AC Matrix.....: AIR
 Date Sampled...: 07/08/11 Date Received...: 07/19/2011
 Prep Date.....: 07/20/11 Analysis Date...: 07/29/2011
 Prep Batch #...: 1201079
 Dilution Factor: 2 Method.....: KNOX ID-0016

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Acenaphthene	230	40	ng/sample	9.8
Acenaphthylene	17 J	40	ng/sample	4.8
Anthracene	130	20	ng/sample	7.6
Benzo (a) anthracene	ND	20	ng/sample	7.6
Benzo (b) fluoranthene	ND	200	ng/sample	60
Benzo (k) fluoranthene	ND	200	ng/sample	86
Benzo (ghi) perylene	21	20	ng/sample	10
Benzo (a) pyrene	21	20	ng/sample	5.8
Benzo (e) pyrene	110	20	ng/sample	11
Chrysene	13000 E, CI	20	ng/sample	5.0
Dibenz (a, h) anthracene	9.1 J	20	ng/sample	7.8
Fluoranthene	470	20	ng/sample	13
Fluorene	2000	20	ng/sample	8.2
Indeno (1, 2, 3-cd) pyrene	7.6 J	20	ng/sample	5.2
2-Methylnaphthalene	880	100	ng/sample	42
Naphthalene	10000 E	800	ng/sample	500
Perylene	15 J	20	ng/sample	6.2
Phenanthrene	7200 E	60	ng/sample	48
Pyrene	4100 CI	120	ng/sample	72

Internal Standard	PERCENT	RECOVERY
	RECOVERY	LIMITS
Fluorene d-10	104	(50 - 150)
Terphenyl-d14	129	(50 - 150)
13C6-Fluorene	94	(50 - 150)
Anthracene-d10	103	(30 - 120)
Naphthalene-d8	79	(30 - 120)
2-Methylnaphthalene-d10	93	(30 - 120)
1-Methylnaphthalene-d10	88	(30 - 120)
Acenaphthylene-d8	117	(30 - 120)
Phenanthrene-d10	86	(30 - 120)
2, 6-Dimethylnaphthalene-d12	104	(30 - 120)
Fluoranthene-d10	102	(30 - 120)
Benzo (a) anthracene-d12	154 *	(30 - 120)
Chrysene-d12	81	(30 - 120)
Benzo (b) fluoranthene-d12	121 *	(30 - 120)
Benzo (k) fluoranthene-d12	80	(30 - 120)
Benzo (a) pyrene-d12	111	(30 - 120)
Perylene-d12	98	(30 - 120)
Indeno (1, 2, 3-cd) pyrene-d12	107	(30 - 120)
Dibenz (ah) anthracene-d14	104	(30 - 120)
Benzo (ghi) perylene-d12	97	(30 - 120)

TRC Environmental Corporation

Client Sample ID: EXM-SRU-M0010-R2-COMBINED

GC/MS Semivolatiles

Lot-Sample #...: H1G190403-002 Work Order #...: MK09Q1AC Matrix.....: AIR

NOTE(S) :

1 13C6-Anthracene = 87 %

* Surrogate recovery is outside stated control limits.

CI See narrative.

E Estimated result. Result concentration exceeds the calibration range.

J Estimated result. Result is less than RL.

Data File: /var/chem/gcms/mp.i/P072911.b/mk09q1ac.d
 Report Date: 05-Aug-2011 11:40

TestAmerica Knoxville

SEMIVOLATILE QUANTITATION REPORT

Data file : /var/chem/gcms/mp.i/P072911.b/mk09q1ac.d
 Lab Smp Id: MK09Q1AC Client Smp ID: EXM-SRU-M0010-R2-CO
 Inj Date : 29-JUL-2011 16:19
 Operator : 11211 Inst ID: mp.i
 Smp Info : , , 0 , , ,
 Misc Info : P072911, SIMPAH3
 Comment :
 Method : /var/chem/gcms/mp.i/P072911.b/SIMPAH3.m
 Meth Date : 04-Aug-2011 19:00 cochranj Quant Type: ISTD
 Cal Date : 26-JUL-2011 20:15 Cal File: pg26ic07.d
 Als bottle: 14
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: pah.sub
 Target Version: 3.50
 Processing Host: qmidhp01

Concentration Formula: Amt * DF * Sf * Vt / Vo * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Sf	2.00000	Split factor
Vt	500.00000	Volume of final extract (uL)
Vo	1.00000	Volume of sample extracted (sample)

Cpnd Variable

Local Compound Variable

Compounds	QUANT SIG	MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN (ug/ml)	FINAL (ng/sample)
* 1 Naphthalene-d8	136	4.869	4.865	(1.000)	558834	0.50000	0.500	
\$ 2 Naphthalene-d8 (SS)	136	4.869	4.865	(0.770)	558834	0.39258	393	
3 Naphthalene	128	4.913	4.880	(1.009)	143786	0.15161	152 5/3NR IE	
\$ 222 13C6-Naphthalene	134	4.891	4.880	(1.005)	3747	0.00365	3.65 (R)	
* 10 2-Methylnaphthalene-d10	152	5.427	5.424	(1.000)	357103	0.50000	0.500	
\$ 11 2-Methylnaphthalene-d10 (SS)	152	5.427	5.424	(0.858)	357103	0.46492	465	
12 2-Methylnaphthalene	142	5.450	5.450	(1.004)	631000	0.87710	877	
* 13 1-Methylnaphthalene-d10	152	5.507	5.503	(1.000)	334058	0.50000	0.500	
\$ 14 1-Methylnaphthalene-d10 (SS)	152	5.507	5.503	(0.871)	334058	0.43754	438	
15 1-Methylnaphthalene	142	5.536	5.533	(1.005)	305714	0.47167	472	
16 Biphenyl	154	5.811	5.835	(1.071)	1129	0.00132	1.32 5/3NR IE	
* 17 2,6-Dimethylnaphthalene-d12	168	5.935	5.933	(1.000)	341959	0.50000	0.500	
\$ 18 2,6-Dimethylnaph-d12 (SS)	168	5.935	5.933	(0.938)	341959	0.52190	522	
19 2,6 Dimethylnaphthalene	156	5.976	5.969	(1.007)	108360	0.15899	159	

Data File: /var/chem/gcms/mp.i/P072911.b/mk09q1ac.d
Report Date: 05-Aug-2011 11:40

Compounds	QUANT SIG	MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN	FINAL
							(ug/ml)	(ng/sample)
=====	=====	=====	=====	=====	=====	=====	=====	=====
* 20 Acenaphthylene-d8		160	6.193	6.194	(1.000)	631260	0.50000	0.500
\$ 21 Acenaphthylene-d8 (SS)		160	6.193	6.194	(0.979)	628802	0.58716	587
22 Acenaphthylene		152	6.205	6.202	(1.002)	22095	0.01736	17.4
* 23 Acenaphthene-d10		164	6.325	6.325	(1.000)	302672	0.50000	0.500
24 Acenaphthene		154	6.353	6.350	(1.026)	176972	0.23283	233
25 2,3,5 Trimethylnaphthalene		170	6.669	6.669	(1.124)	50242	0.08838	88.4
\$ 26 Fluorene-d10		176	6.761	6.758	(0.892)	634074	1.04232	1040
27 Fluorene		166	6.783	6.783	(0.895)	1573846	2.00073	2000
\$ 28 13C6-Fluorene		171	6.783	6.781	(0.895)	635990	0.93673	937
* 34 Dibenzothiophene-d8		192	7.476	7.474	(1.000)	597864	0.50000	0.500
\$ 35 Dibenzothiophene-d8 (SS)		192	7.476	7.474	(0.841)	597864	0.45104	451
36 Dibenzothiophene		184	7.490	7.489	(1.002)	7247302	6.35495	6350 <i>FE</i>
* 41 Phenanthrene-d10		188	7.580	7.578	(1.000)	513093	0.50000	0.500
\$ 42 Phenanthrene-d10 (SS)		188	7.580	7.578	(0.853)	513093	0.42905	429
43 Phenanthrene		178	7.561	7.597	(0.998)	5748	0.00510	5.10 <i>SNR FE</i>
* 44 Anthracene-d10		188	7.627	7.626	(1.000)	519939	0.50000	0.500
\$ 45 Anthracene-d10 (SS)		188	7.627	7.626	(0.858)	519939	0.51487	515
46 Anthracene		178	7.644	7.642	(1.002)	177402	0.13259	133
\$ 47 13C6-Anthracene		184	7.644	7.642	(0.860)	473789	0.43284	433
52 1-Methylphenanthrene		192	8.145	8.143	(1.075)	69141	0.10218	102
* 53 Fluoranthene-d10		212	8.667	8.665	(1.000)	568125	0.50000	0.500
\$ 54 Fluoranthene-d10 (SS)		212	8.667	8.665	(0.975)	568125	0.51006	510
55 Fluoranthene		202	8.685	8.683	(1.002)	596357	0.46652	467
* 56 Pyrene-d10		212	8.889	8.885	(1.000)	454053	0.50000	0.500
57 Pyrene		202	8.943	8.904	(1.032)	5590401	4.13547	4140
\$ 58 Terphenyl-d14		244	9.050	9.043	(1.044)	751227	1.29054	1290 (R)
* 60 Benzo(a)anthracene-d12		240	10.104	10.100	(1.000)	426781	0.50000	0.500
\$ 61 Benzo(a)anthracene-d12 (SS)		240	10.104	10.100	(1.137)	426781	0.77062	771 (R)
62 Benzo(a)anthracene		228	10.100	10.121	(1.000)	2543	0.00186	1.86
* 63 Chrysene-d12		240	10.137	10.133	(1.000)	392372	0.50000	0.500 <i>nd</i>
\$ 64 Chrysene-d12 (SS)		240	10.137	10.133	(1.140)	392372	0.40383	404
65 Chrysene		228	10.154	10.163	(1.002)	10969470	12.8068	12800
* 70 Benzo(b)fluoranthene-d12		264	11.259	11.253	(1.000)	408119	0.50000	0.500
\$ 71 Benzo(b)fluoranthene-d12 (SS)		264	11.259	11.253	(0.973)	408119	0.60496	605 (R)
72 Benzo(b)fluoranthene		252	11.283	11.277	(1.002)	67916	0.05664	56.6 <i>SNR</i>
* 73 Benzo(k)fluoranthene-d12		264	11.289	11.289	(1.000)	384291	0.50000	0.500
\$ 74 Benzo(k)fluoranthene-d12 (SS)		264	11.289	11.289	(0.975)	384291	0.39913	399
75 Benzo(k)fluoranthene		252	11.283	11.307	(0.999)	65840	0.07825	78.3 <i>SNR</i>
* 76 Benzo(e)pyrene-d12		264	11.575	11.570	(1.000)	319899	0.50000	0.500
77 Benzo(e)pyrene		252	11.605	11.600	(0.997)	112517	0.10820	108
* 78 Benzo(a)pyrene-d12		264	11.641	11.635	(1.000)	382683	0.50000	0.500
\$ 79 Benzo(a)pyrene-d12 (SS)		264	11.641	11.635	(1.006)	382576	0.55464	555
80 Benzo(a)pyrene		252	11.665	11.665	(1.002)	18524	0.02133	21.3
* 81 Perylene-d12		264	11.737	11.737	(1.000)	336938	0.50000	0.500
\$ 82 Perylene-d12 (SS)		264	11.737	11.737	(1.014)	336938	0.48977	490
83 Perylene		252	11.767	11.761	(1.003)	13082	0.01541	15.4
* 84 Indeno(123-cd)pyrene-d12		288	13.110	13.106	(1.000)	420875	0.50000	0.500

Data File: /var/chem/gcms/mp.i/P072911.b/mk09q1ac.d
 Report Date: 05-Aug-2011 11:40

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN	FINAL
	MASS					(ug/ml)	(ng/sample)
=====	=====	==	=====	=====	=====	=====	=====
\$ 85 Indeno(123-cd)pyrene-d12(SS)	288	13.110	13.106	(1.133)	420875	0.53396	534
86 Indeno(1,2,3-cd)pyrene	276	13.144	13.140	(1.003)	7736	0.00759	7.59
* 87 Dibenz(ah)anthracene-d14	292	13.114	13.110	(1.000)	312026	0.50000	0.500
\$ 88 Dibenz(ah)anthracene-d14(SS)	292	13.114	13.110	(1.133)	312026	0.51971	520
89 Dibenz(a,h)anthracene	278	13.156	13.157	(1.003)	6983	0.00911	9.11
* 90 Benzo(ghi)perylene-d12	288	13.464	13.460	(1.000)	288035	0.50000	0.500
\$ 91 Benzo(ghi)perylene-d12(SS)	288	13.464	13.460	(1.163)	286858	0.48426	484
92 Benzo(g,h,i)perylene	276	13.498	13.494	(1.002)	17006	0.02133	21.3

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

Data File: /var/chem/gcms/mp.i/P072911.b/mk09q1ac.d
 Report Date: 05-Aug-2011 13:27

TestAmerica Knoxville

SEMIVOLATILE QUANTITATION REPORT

Data file : /var/chem/gcms/mp.i/P072911.b/mk09q1ac.d
 Lab Smp Id: MK09Q1AC Client Smp ID: EXM-SRU-M0010-R2-CO
 Inj Date : 29-JUL-2011 16:19
 Operator : 11211 Inst ID: mp.i
 Smp Info : , , 0 , , ,
 Misc Info : P072911,SIMPAH3
 Comment :
 Method : /var/chem/gcms/mp.i/P072911.b/SIMPAH3.m
 Meth Date : 04-Aug-2011 19:00 cochranj Quant Type: ISTD
 Cal Date : 26-JUL-2011 20:15 Cal File: pg26ic07.d
 Als bottle: 14
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: pah.sub
 Target Version: 3.50
 Processing Host: qmidhp01

Concentration Formula: Amt * DF * Sf*Vt/Vo * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Sf	2.00000	Split factor
Vt	500.00000	Volume of final extract (uL)
Vo	1.00000	Volume of sample extracted (sample)

Cpnd Variable

Local Compound Variable

42-5

Compounds	QUANT	SIG	MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
								ON-COLUMN (ug/ml)	FINAL (ng/sample)
* 1 Naphthalene-d8	136		4.869	4.865	(1.000)	558834	0.50000	0.500	
\$ 2 Naphthalene-d8 (SS)	136		4.869	4.865	(0.770)	558834	0.39258	393	
3 Naphthalene	128		4.880	4.880	(1.002)	9454534	9.96898	9970 (M) E	
* 10 2-Methylnaphthalene-d10	152		5.427	5.424	(1.000)	357103	0.50000	0.500	
\$ 11 2-Methylnaphthalene-d10 (SS)	152		5.427	5.424	(0.858)	357103	0.46492	465	
12 2-Methylnaphthalene	142		5.450	5.450	(1.004)	631000	0.87710	877	
* 13 1-Methylnaphthalene-d10	152		5.507	5.503	(1.000)	334058	0.50000	0.500	
\$ 14 1-Methylnaphthalene-d10 (SS)	152		5.507	5.503	(0.871)	334058	0.43754	438	
15 1-Methylnaphthalene	142		5.536	5.533	(1.005)	305714	0.47167	472	
16 Biphenyl	154		5.835	5.835	(1.075)	7661650	8.96734	8970 (M) E	
* 17 2,6-Dimethylnaphthalene-d12	168		5.935	5.933	(1.000)	341959	0.50000	0.500	
\$ 18 2,6-Dimethylnaph-d12 (SS)	168		5.935	5.933	(0.938)	341959	0.52190	522	
19 2,6 Dimethylnaphthalene	156		5.976	5.969	(1.007)	108360	0.15899	159	
* 20 Acenaphthylene-d8	160		6.193	6.194	(1.000)	631260	0.50000	0.500	

7/2/11

Data File: /var/chem/gcms/mp.i/P072911.b/mk09q1ac.d
Report Date: 05-Aug-2011 13:27

Compounds	QUANT SIG			REL RT	RESPONSE	CONCENTRATIONS	
	MASS	RT	EXP RT			ON-COLUMN (ug/ml)	FINAL (ng/sample)
=====	=====	==	=====	=====	=====	=====	=====
\$ 21 Acenaphthylene-d8 (SS)	160	6.193	6.194	(0.979)	628802	0.58717	587
22 Acenaphthylene	152	6.205	6.202	(1.002)	22095	0.01736	17.4
* 23 Acenaphthene-d10	164	6.325	6.325	(1.000)	302672	0.50000	0.500
24 Acenaphthene	154	6.353	6.350	(1.026)	176972	0.23283	233
25 2,3,5 Trimethylnaphthalene	170	6.669	6.669	(1.124)	50242	0.08838	88.4
\$ 26 Fluorene-d10	176	6.761	6.758	(0.892)	634074	1.04232	1040
27 Fluorene	166	6.783	6.783	(0.895)	1573846	2.00073	2000
\$ 28 13C6-Fluorene	171	6.783	6.781	(0.895)	635990	0.93673	937
* 34 Dibenzothiophene-d8	192	7.476	7.474	(1.000)	597864	0.50000	0.500
\$ 35 Dibenzothiophene-d8 (SS)	192	7.476	7.474	(0.841)	597864	0.45104	451
36 Dibenzothiophene	184	7.490	7.489	(1.002)	7247302	6.35496	6350 E
* 41 Phenanthrene-d10	188	7.580	7.578	(1.000)	513093	0.50000	0.500
\$ 42 Phenanthrene-d10 (SS)	188	7.580	7.578	(0.853)	513093	0.42905	429
43 Phenanthrene	178	7.598	7.597	(1.002)	8075276	7.16826	7170 (M) E
* 44 Anthracene-d10	188	7.627	7.626	(1.000)	519939	0.50000	0.500
\$ 45 Anthracene-d10 (SS)	188	7.627	7.626	(0.858)	519939	0.51487	515
46 Anthracene	178	7.644	7.642	(1.002)	177402	0.13259	133
\$ 47 13C6-Anthracene	184	7.644	7.642	(0.860)	473789	0.43284	433
52 1-Methylphenanthrene	192	8.145	8.143	(1.075)	69141	0.10218	102
* 53 Fluoranthene-d10	212	8.667	8.665	(1.000)	568125	0.50000	0.500
\$ 54 Fluoranthene-d10 (SS)	212	8.667	8.665	(0.975)	568125	0.51006	510
55 Fluoranthene	202	8.685	8.683	(1.002)	596357	0.46652	467
* 56 Pyrene-d10	212	8.889	8.885	(1.000)	454053	0.50000	0.500
57 Pyrene	202	8.943	8.904	(1.032)	5590401	4.13547	4140
\$ 58 Terphenyl-d14	244	9.050	9.043	(1.044)	751227	1.29054	1290 (R)
* 60 Benzo(a)anthracene-d12	240	10.104	10.100	(1.000)	426781	0.50000	0.500
\$ 61 Benzo(a)anthracene-d12 (SS)	240	10.104	10.100	(1.137)	426781	0.77062	771 (R)
* 63 Chrysene-d12	240	10.137	10.133	(1.000)	392372	0.50000	0.500
\$ 64 Chrysene-d12 (SS)	240	10.137	10.133	(1.140)	392372	0.40383	404
65 Chrysene	228	10.154	10.163	(1.002)	10969470	12.8068	12800 E
* 70 Benzo(b)fluoranthene-d12	264	11.259	11.253	(1.000)	408119	0.50000	0.500
\$ 71 Benzo(b)fluoranthene-d12 (SS)	264	11.259	11.253	(0.973)	408119	0.60496	605 (R)
72 Benzo(b)fluoranthene	252	11.283	11.277	(1.002)	62138	0.05182	51.8 (M)
* 73 Benzo(k)fluoranthene-d12	264	11.289	11.289	(1.000)	384291	0.50000	0.500
\$ 74 Benzo(k)fluoranthene-d12 (SS)	264	11.289	11.289	(0.975)	384291	0.39913	399
75 Benzo(k)fluoranthene	252	11.306	11.307	(1.002)	7870	0.00935	9.35 (M)
* 76 Benzo(e)pyrene-d12	264	11.575	11.570	(1.000)	319899	0.50000	0.500
77 Benzo(e)pyrene	252	11.605	11.600	(0.997)	112517	0.10820	108
* 78 Benzo(a)pyrene-d12	264	11.641	11.635	(1.000)	382683	0.50000	0.500
\$ 79 Benzo(a)pyrene-d12 (SS)	264	11.641	11.635	(1.006)	382576	0.55464	555
80 Benzo(a)pyrene	252	11.665	11.665	(1.002)	18524	0.02133	21.3
* 81 Perylene-d12	264	11.737	11.737	(1.000)	336938	0.50000	0.500
\$ 82 Perylene-d12 (SS)	264	11.737	11.737	(1.014)	336938	0.48977	490
83 Perylene	252	11.767	11.761	(1.003)	13082	0.01541	15.4
* 84 Indeno(123-cd)pyrene-d12	288	13.110	13.106	(1.000)	420875	0.50000	0.500
\$ 85 Indeno(123-cd)pyrene-d12 (SS)	288	13.110	13.106	(1.133)	420875	0.53396	534
86 Indeno(1,2,3-cd)pyrene	276	13.144	13.140	(1.003)	7736	0.00759	7.59

Data File: /var/chem/gcms/mp.i/P072911.b/mk09q1ac.d
 Report Date: 05-Aug-2011 13:27

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN	FINAL
	MASS					(ug/ml)	(ng/sample)
=====	=====	==	=====	=====	=====	=====	=====
* 87 Dibenz(ah)anthracene-d14	292	13.114	13.110	(1.000)	312026	0.50000	0.500
\$ 88 Dibenz(ah)anthracene-d14(SS)	292	13.114	13.110	(1.133)	312026	0.51971	520
89 Dibenz(a,h)anthracene	278	13.156	13.157	(1.003)	6983	0.00911	9.11
* 90 Benzo(ghi)perylene-d12	288	13.464	13.460	(1.000)	288035	0.50000	0.500
\$ 91 Benzo(ghi)perylene-d12(SS)	288	13.464	13.460	(1.163)	286858	0.48426	484
92 Benzo(g,h,i)perylene	276	13.498	13.494	(1.002)	17006	0.02133	21.3

QC Flag Legend

R - Spike/Surrogate failed recovery limits.
 M - Compound response manually integrated.

Data File: /var/chem/gcms/mp.i/P072911.b/mk09q1ac.d
 Report Date: 05-Aug-2011 13:27

TestAmerica Knoxville

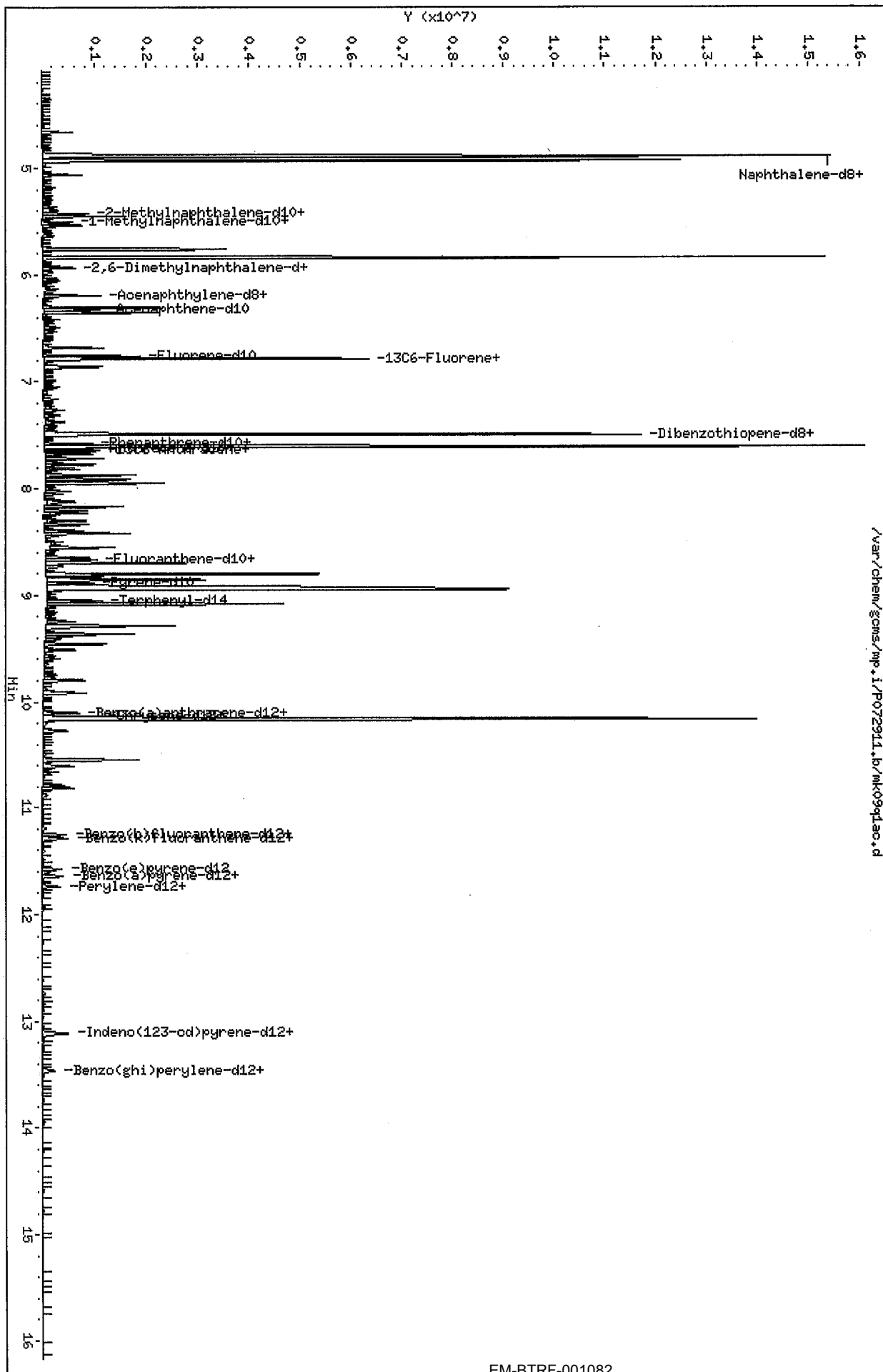
RECOVERY REPORT

Client Name: TRC Environmental Co19-JUL-2011 00:00 Client SDG: H1G190403
 Sample Matrix: GAS Fraction: SV
 Lab Smp Id: MK09Q1AC Client Smp ID: EXM-SRU-M0010-R2-CO
 Level: LOW Operator: 11211
 Data Type: MS DATA SampleType: SAMPLE
 SpikeList File: icv.spk Quant Type: ISTD
 Sublist File: pah.sub
 Method File: /var/chem/gcms/mp.i/P072911.b/SIMPAH3.m
 Misc Info: P072911,SIMPAH3

SURROGATE COMPOUND	CONC ADDED ng/sample	CONC RECOVERED ng/sample	% RECOVERED	LIMITS
\$ 2 Naphthalene-d8 (SS)	500	393	78.52	30-120
\$ 222 13C6-Naphthalene	500	0.00	*	50-150
\$ 11 2-Methylnaphthalen	500	465	92.98	30-120
\$ 14 1-Methylnaphthalen	500	438	87.51	30-120
\$ 18 2,6-Dimethylnaph-d	500	522	104.38	30-120
\$ 21 Acenaphthylene-d8 (	500	587	117.43	30-120
\$ 26 Fluorene-d10	1000	1040	104.23	30-120 50-150
\$ 28 13C6-Fluorene	1000	937	93.67	30-120
\$ 35 Dibenzothiopene-d8	500	451	90.21	30-120
\$ 42 Phenanthrene-d10 (S	500	429	85.81	30-120
\$ 45 Anthracene-d10 (SS)	500	515	102.97	30-120
\$ 47 13C6-Anthracene	500	433	86.57	30-120
\$ 54 Fluoranthene-d10 (S	500	510	102.01	0-120
\$ 58 Terphenyl-d14	1000	1290	129.05*	30-120 50-150
\$ 61 Benzo (a) anthracene	500	771	154.12*	30-120
\$ 64 Chrysene-d12 (SS)	500	404	80.77	30-120
\$ 71 Benzo (b) fluoranthe	500	605	120.99*	30-120
\$ 74 Benzo (k) fluoranthe	500	399	79.83	30-120
\$ 79 Benzo (a) pyrene-d12	500	555	110.93	30-120
\$ 82 Perylene-d12 (SS)	500	490	97.95	30-120
\$ 85 Indeno (123-cd) pyre	500	534	106.79	30-120
\$ 88 Dibenz (ah) anthrace	500	520	103.94	30-120
\$ 91 Benzo (ghi) perylene	500	484	96.85	30-120

Data File: /var/chem/gcms/mp.i/P072911.b/mk09qlac.d
 Date : 29-JUL-2011 16:19
 Client ID: EXH-SRU-H0010-R2-CO
 Sample Info: ,,,
 Purge Volume: 1.0
 Column phase: Varian: SMS

Instrument: mp.i
 Operator: 11211
 Column diameter: 0.25



Data File: /var/chem/gcms/mp.i/P072911.b/mk09q1ac.d

Date : 29-JUL-2011 16:19

Client ID: EXM-SRU-M0010-R2-C0

Instrument: mp.i

Sample Info: ,,,0,,,

Purge Volume: 1.0

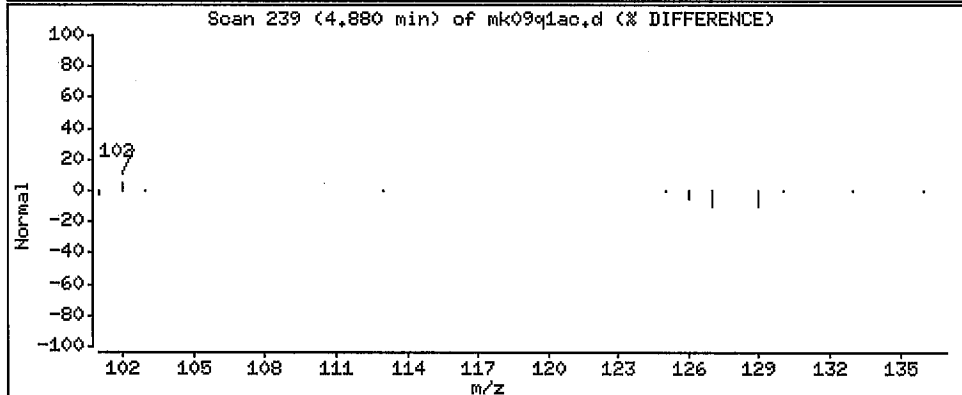
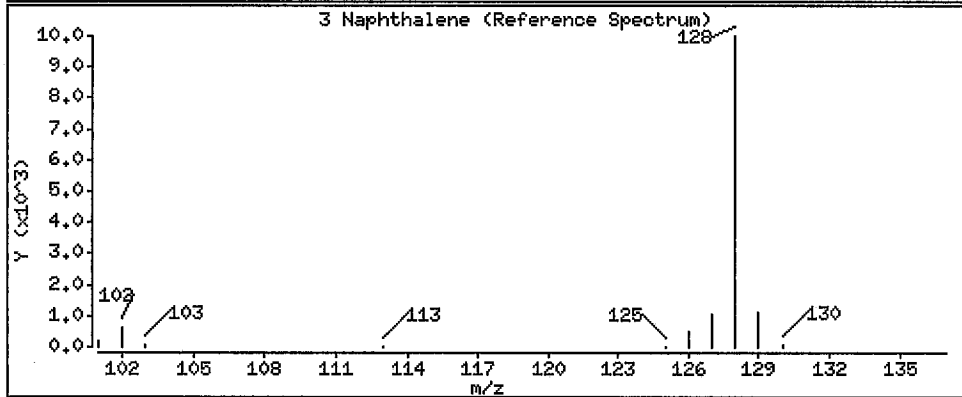
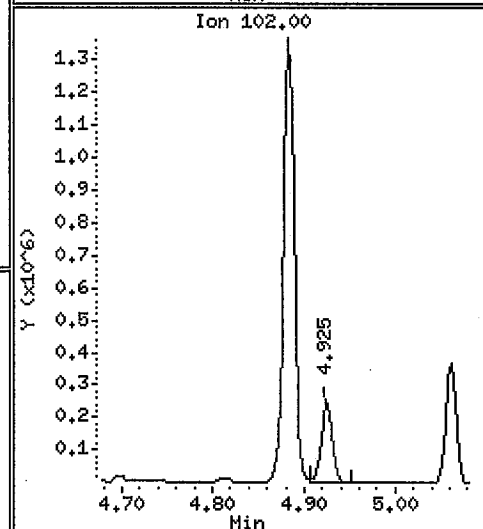
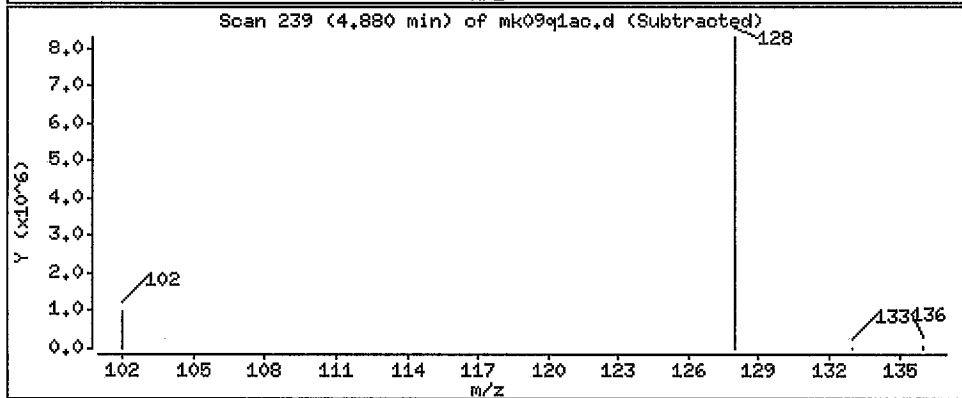
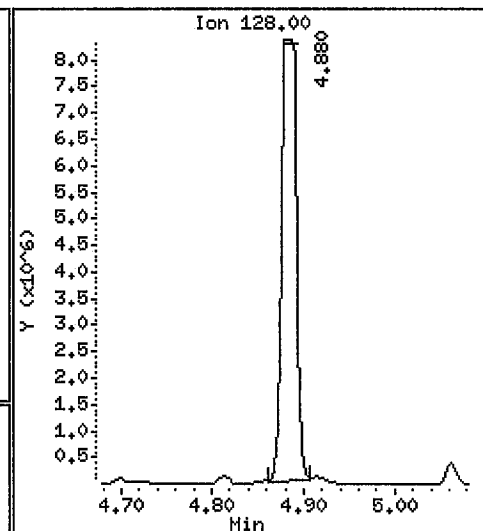
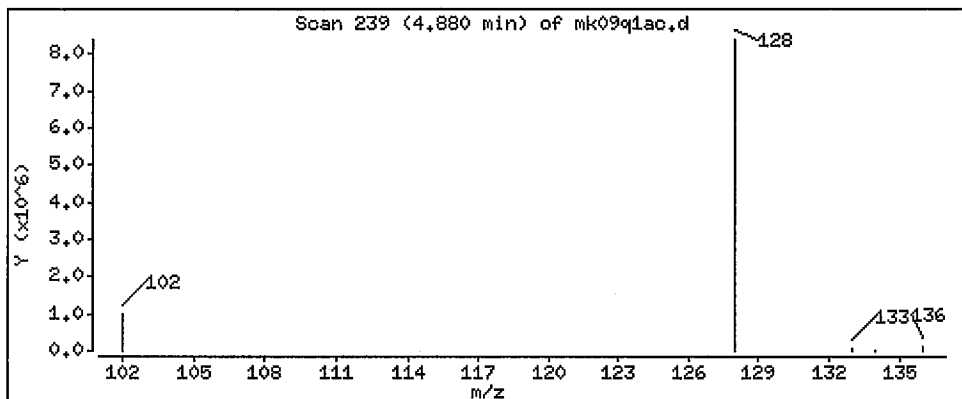
Operator: 11211

Column phase: Varian: 5MS

Column diameter: 0.25

3 Naphthalene

Concentration: 9970 ng/sample



EM-BTRF-001083

Data File: /var/chem/gcms/mp.i/P072911.b/mk09q1ao.d

Date : 29-JUL-2011 16:19

Client ID: EXH-SRU-M0010-R2-C0

Instrument: mp.i

Sample Info: ,,0,,,

Purge Volume: 1.0

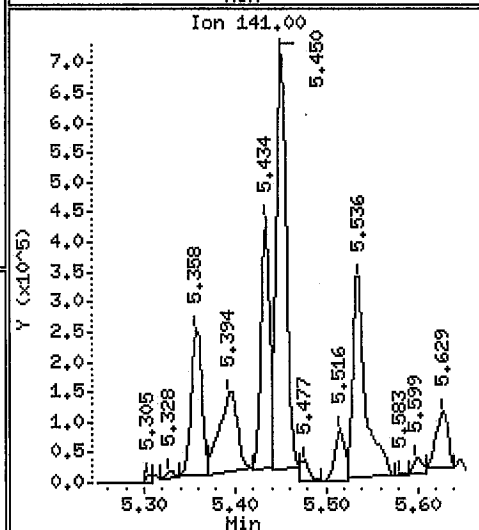
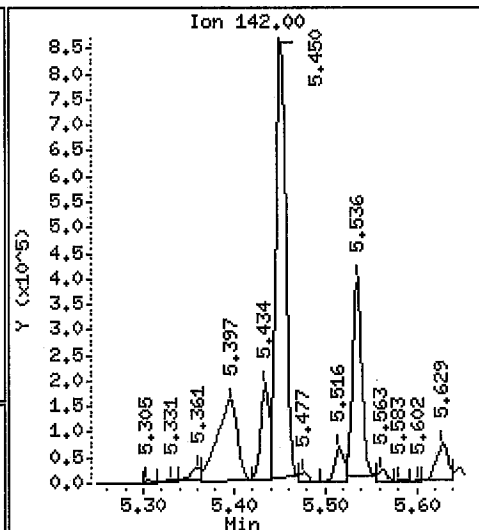
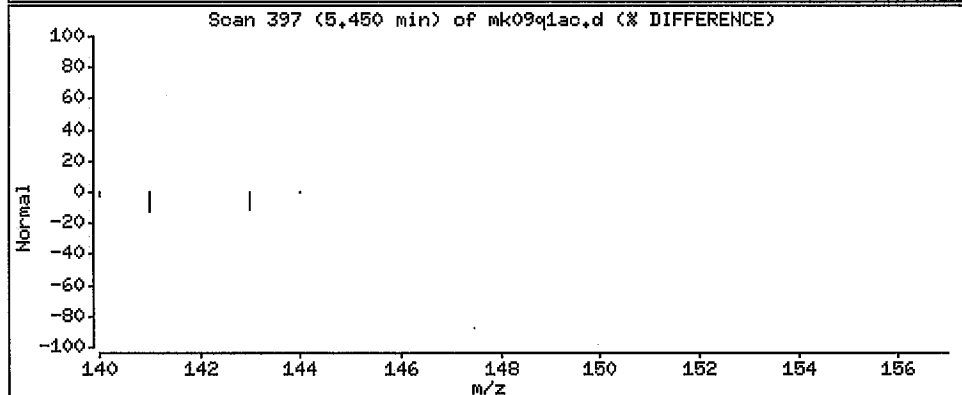
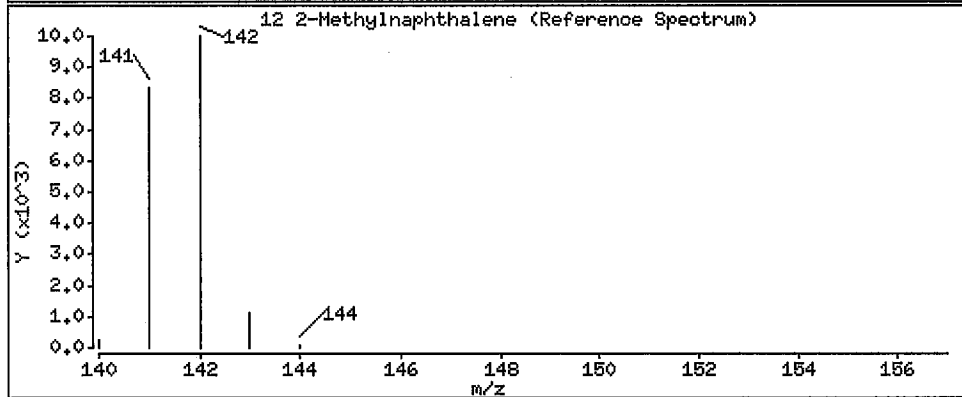
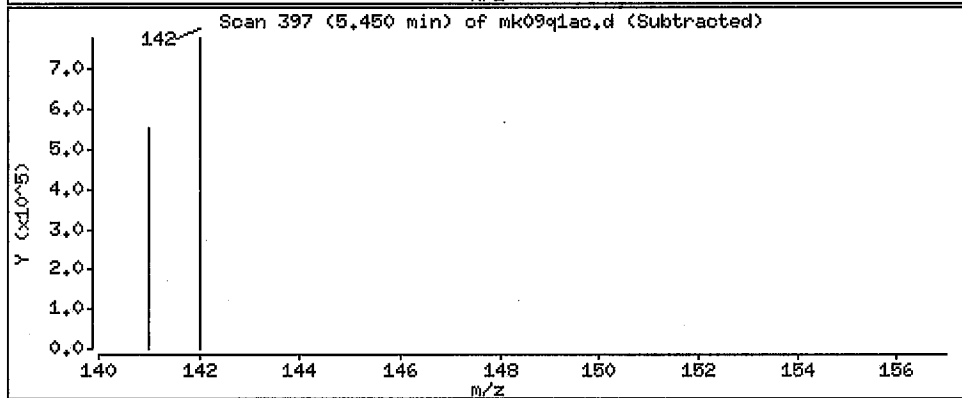
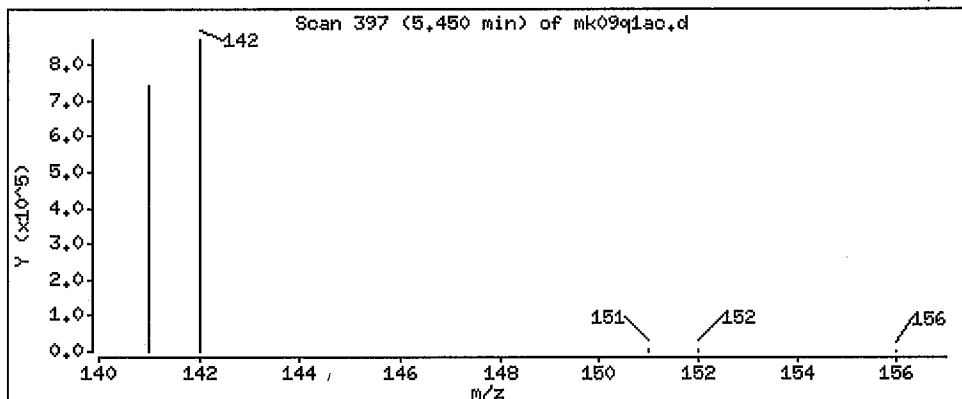
Operator: 11211

Column phase: Variant: SMS

Column diameter: 0.25

12 2-Methylnaphthalene

Concentration: 877 ng/sample



Data File: /var/chem/gcms/mp.i/P072911.b/mk09q1ao.d

Date : 29-JUL-2011 16:19

Client ID: EXH-SRU-H0010-R2-C0

Instrument: mp.i

Sample Info: ,,0,,,

Purge Volume: 1.0

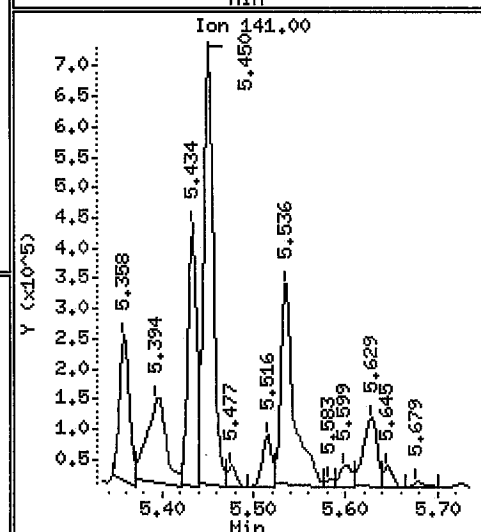
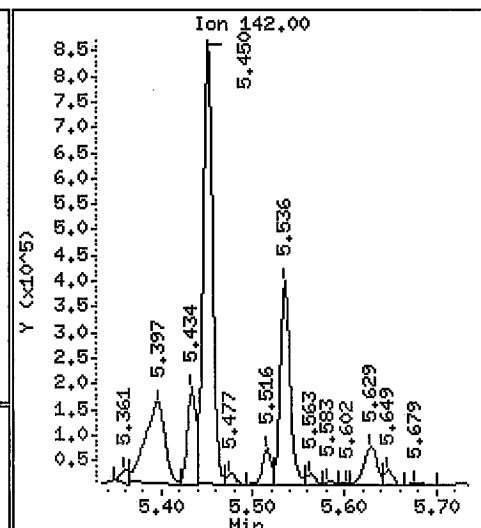
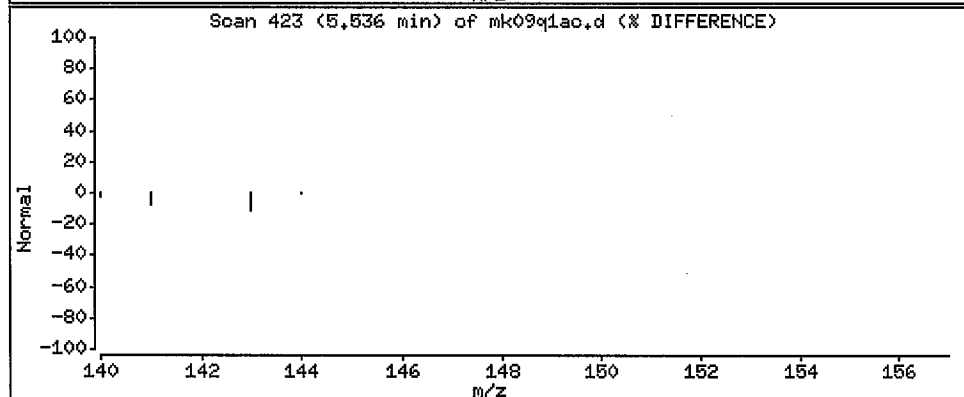
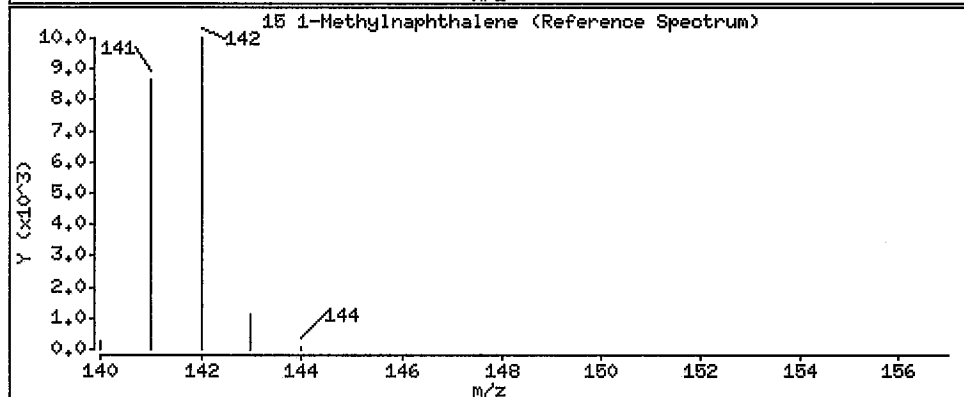
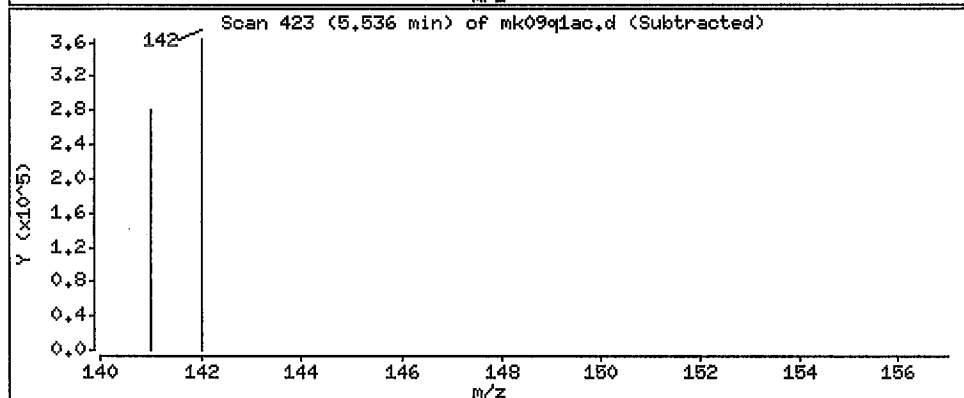
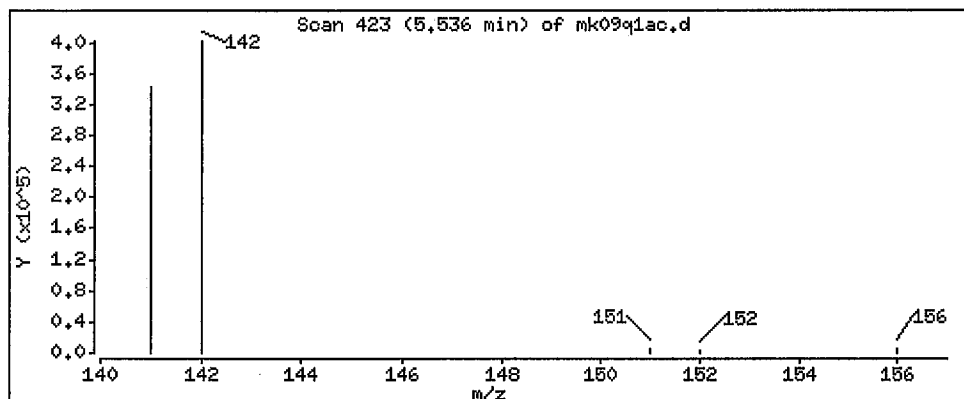
Operator: 11211

Column phase: Varian: 5MS

Column diameter: 0.25

15 1-Methylnaphthalene

Concentration: 472 ng/sample



Data File: /var/chem/gcms/mp.i/P072911.b/mk09q1ao.d

Date : 29-JUL-2011 16:19

Client ID: EXM-SRU-M0010-R2-C0

Instrument: mp.i

Sample Info: ,,0,,,

Purge Volume: 1.0

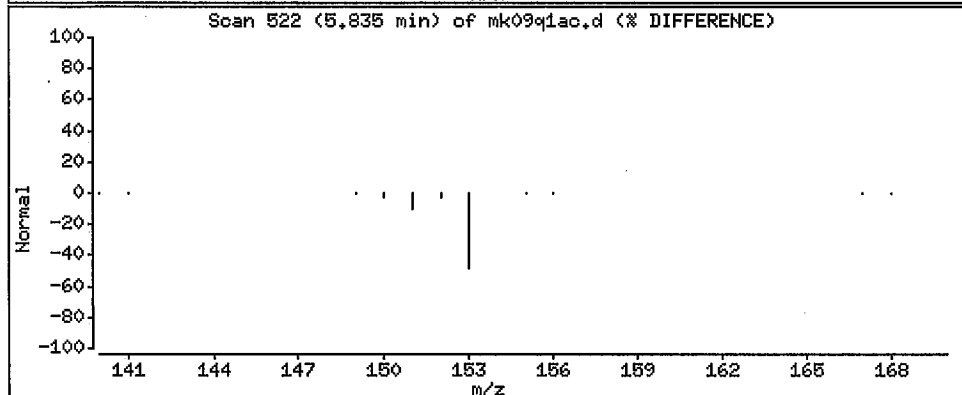
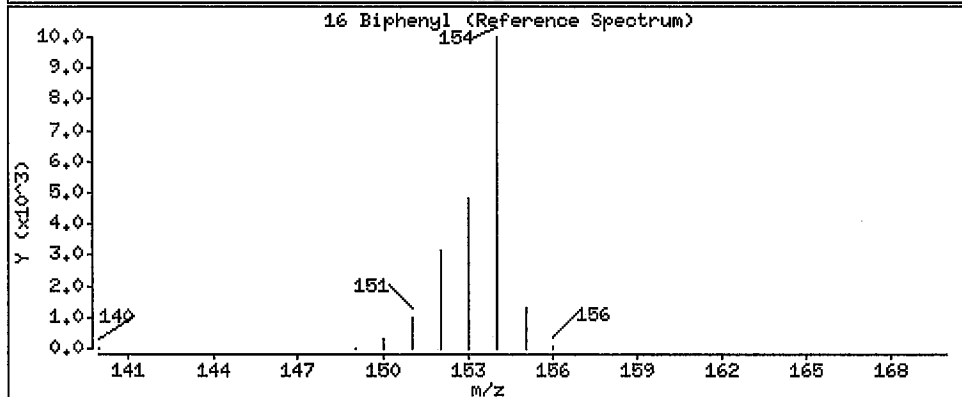
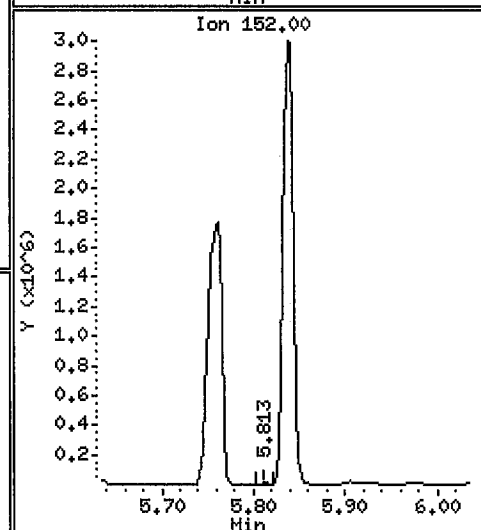
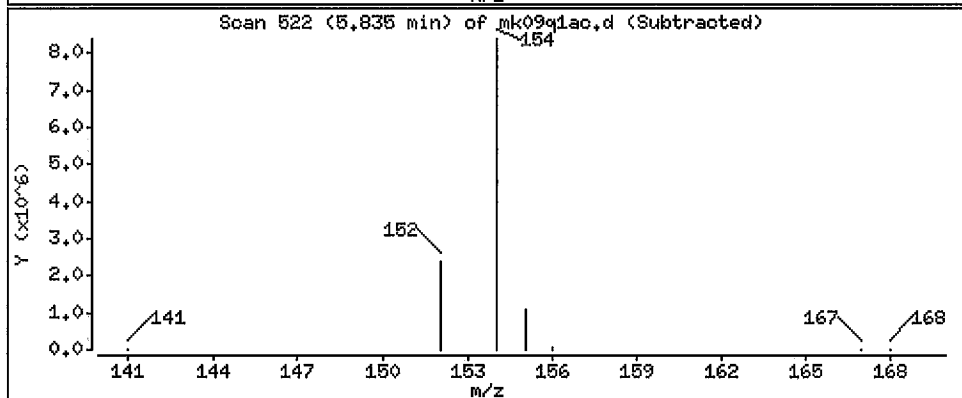
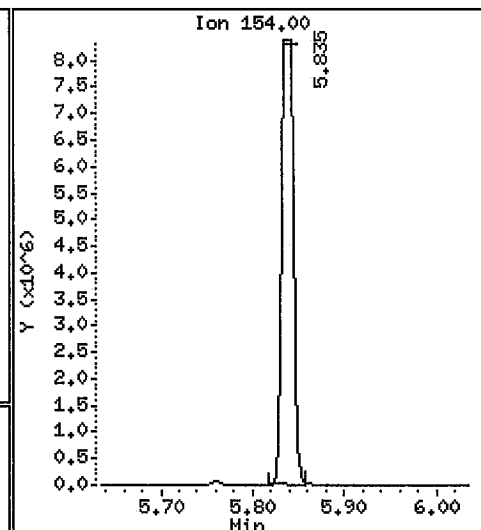
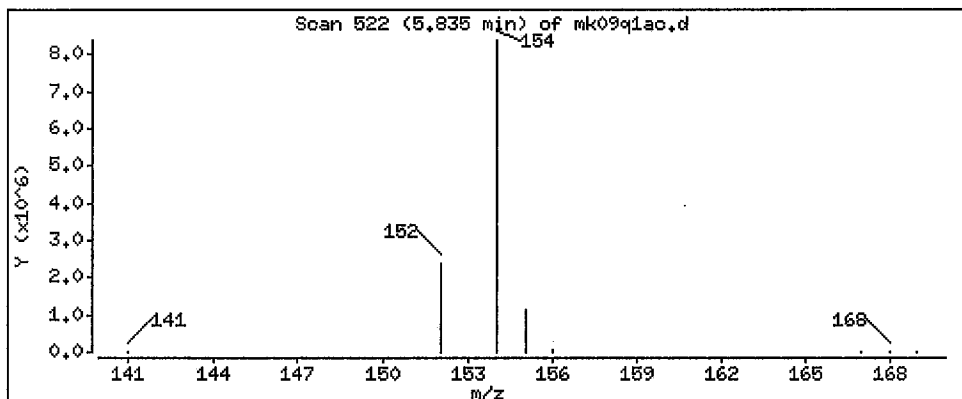
Operator: 11211

Column phase: Varian: 5MS

Column diameter: 0.25

16 Biphenyl

Concentration: 8970 ng/sample



EM-BTRF-001086

Data File: /var/chem/gcms/mp.i/P072911.b/mk09q1ac.d

Date : 29-JUL-2011 16:19

Client ID: EXM-SRU-M0010-R2-C0

Instrument: mp.i

Sample Info: ,,0,,,

Purge Volume: 1.0

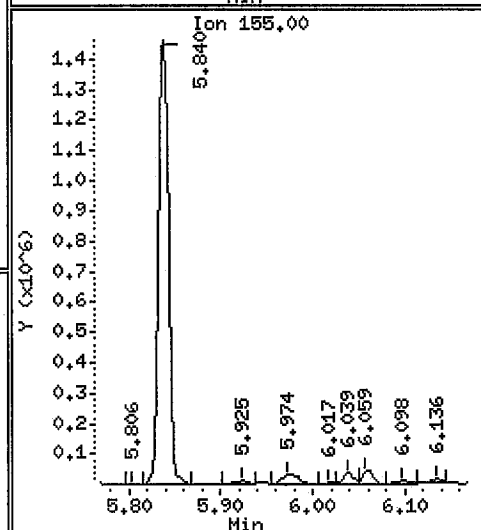
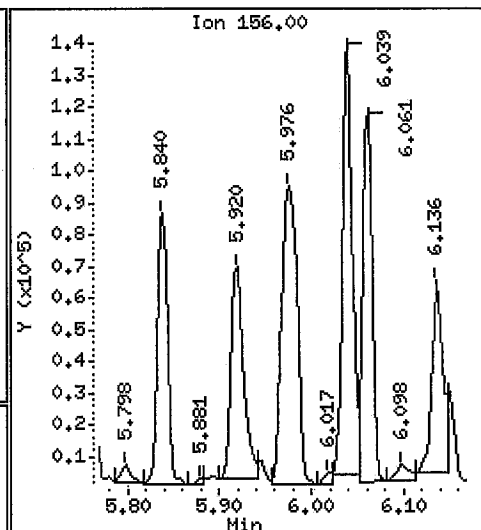
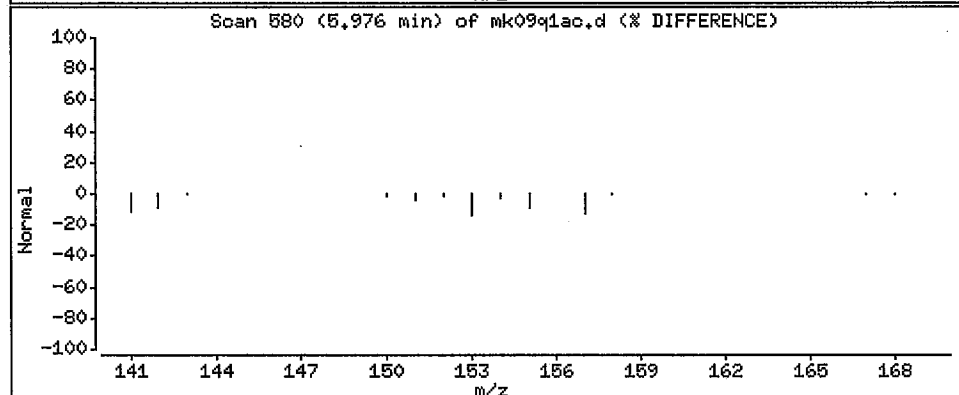
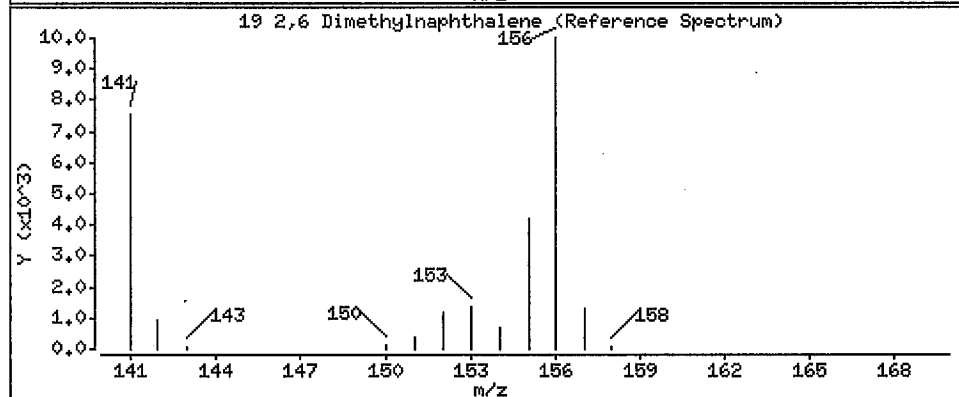
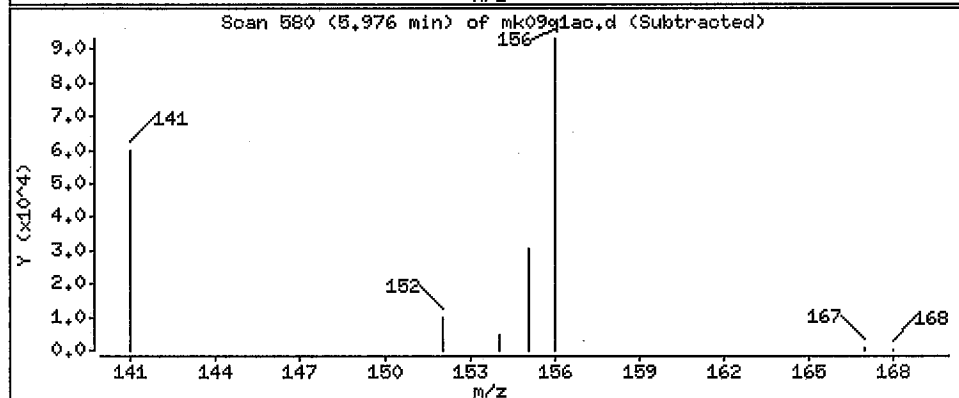
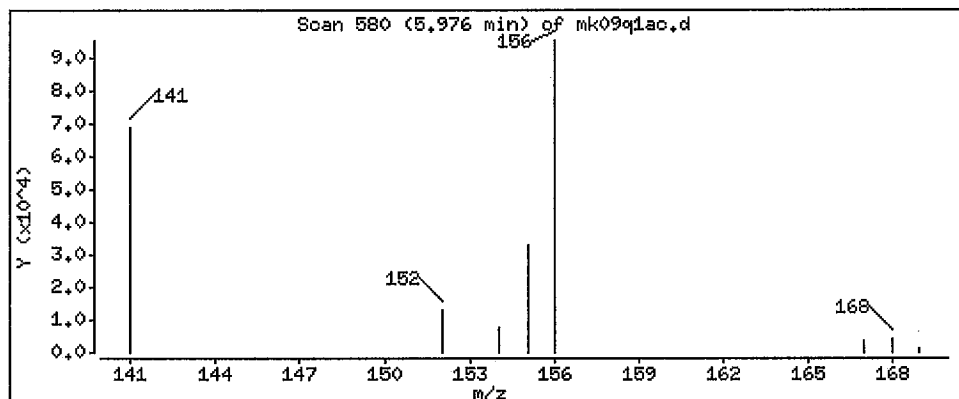
Operator: 11211

Column phase: Varian: 5MS

Column diameter: 0.25

19 2,6 Dimethylnaphthalene

Concentration: 159 ng/sample



Data File: /var/chem/gcms/mp.i/P072911.b/mk09q1ao.d

Date : 29-JUL-2011 16:19

Client ID: EXM-SRU-M0010-R2-C0

Instrument: mp.i

Sample Info: ,,0,,,

Purge Volume: 1.0

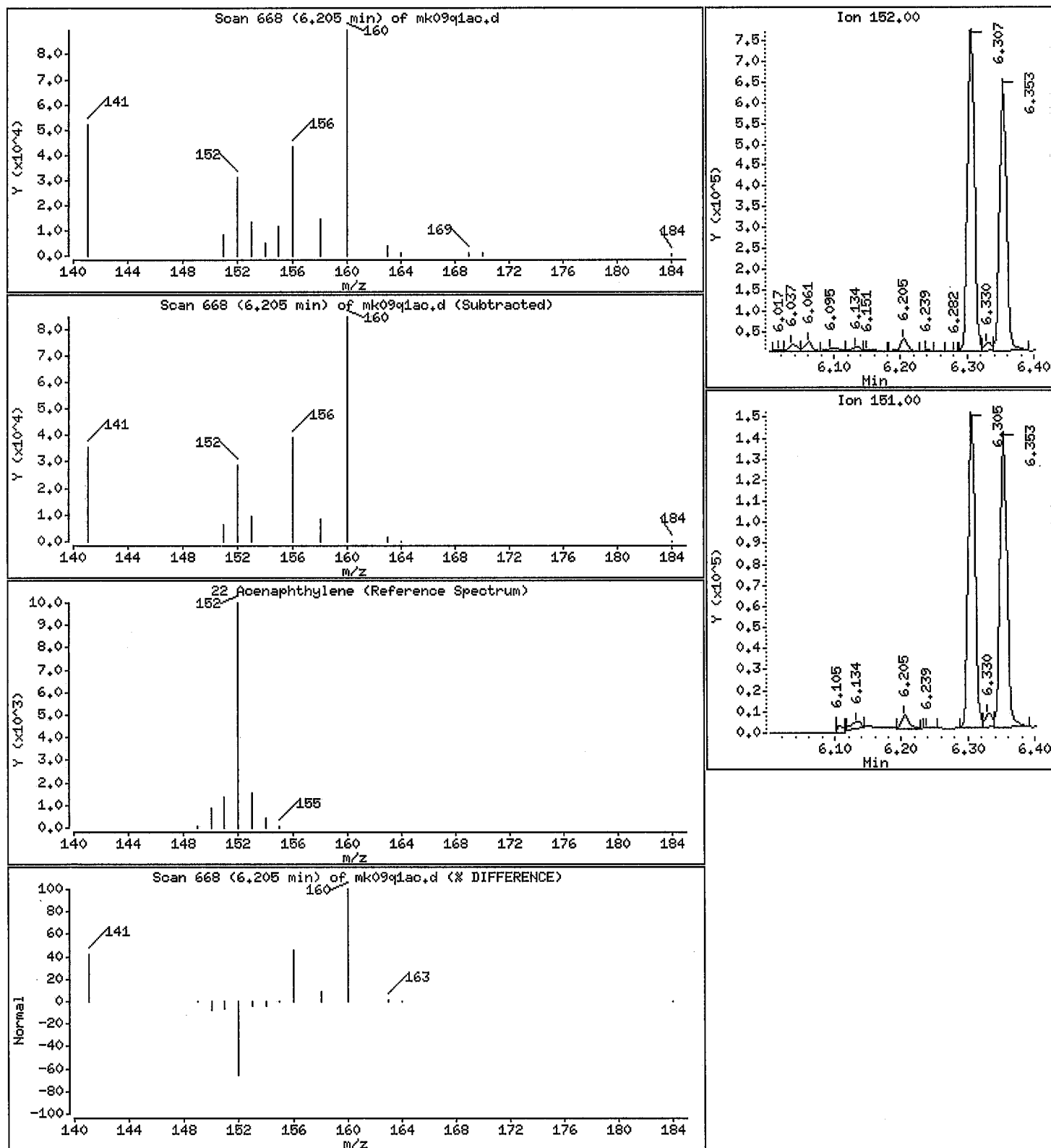
Operator: 11211

Column phase: Variant 5MS

Column diameter: 0.25

22 Acenaphthylene

Concentration: 17.4 ng/sample



EM-BTRF-001088

Data File: /var/chem/gcms/mp.i/P072911.b/mk09q1ao.d

Date : 29-JUL-2011 16:19

Client ID: EXM-SRU-M0010-R2-C0

Instrument: mp.i

Sample Info: ,,0,,,

Purge Volume: 1.0

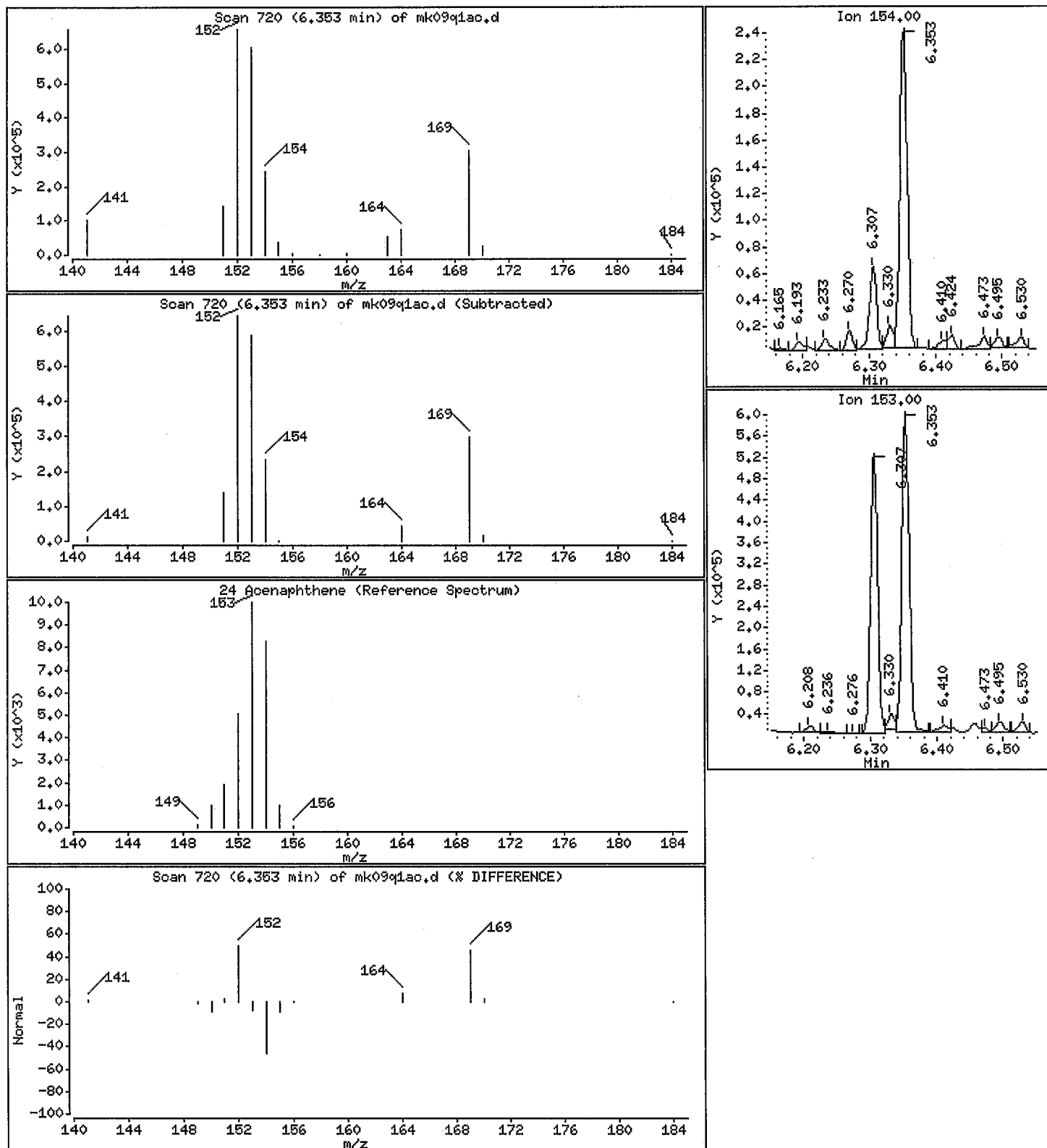
Operator: 11211

Column phase: Variant: 5MS

Column diameter: 0.25

24 Acenaphthene

Concentration: 233 ng/sample



EM-BTRF-001089

Data File: /var/chem/gcms/mp.i/P072911.b/mk09q1ao.d

Date : 29-JUL-2011 16:19

Client ID: EXM-SRU-M0010-R2-C0

Instrument: mp.i

Sample Info: ,,0,,,

Purge Volume: 1.0

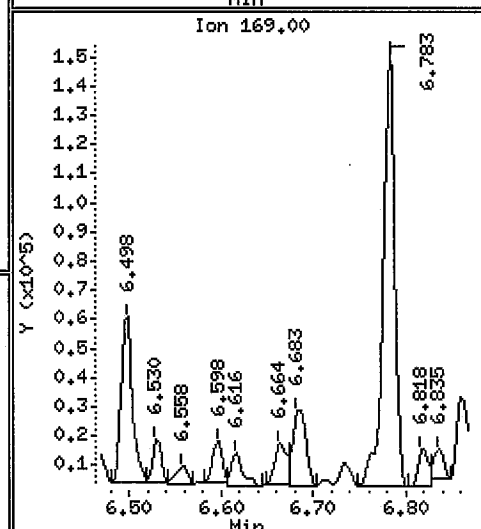
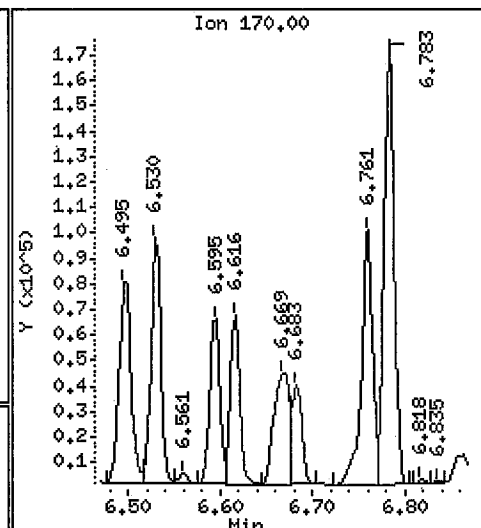
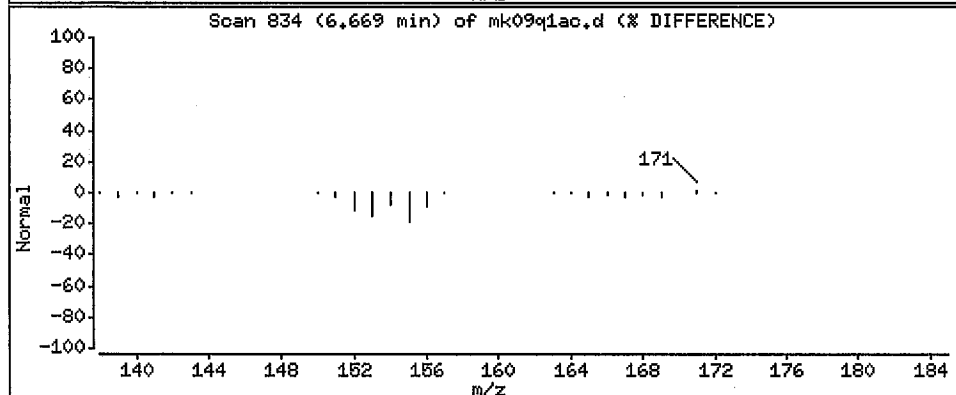
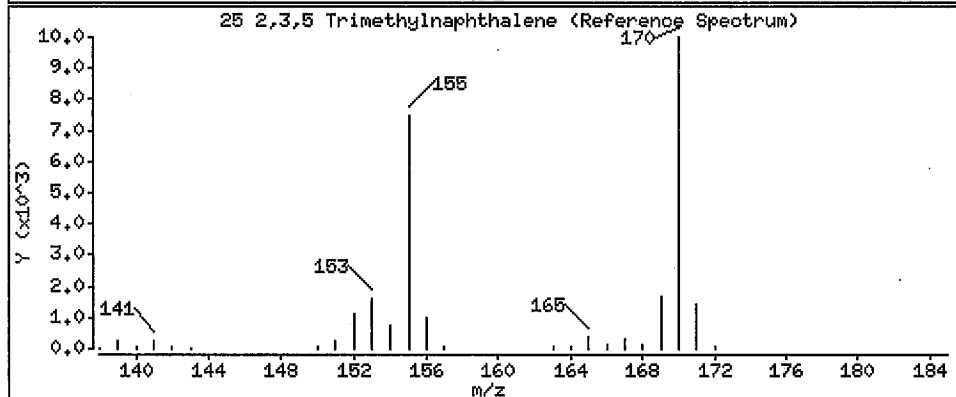
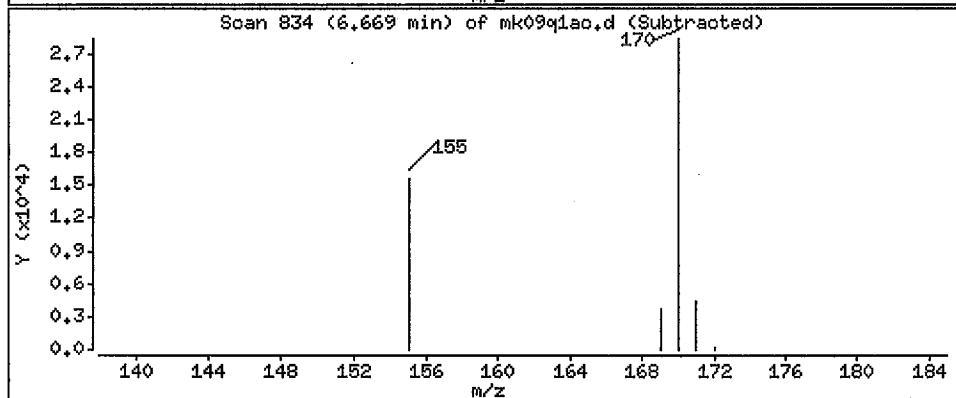
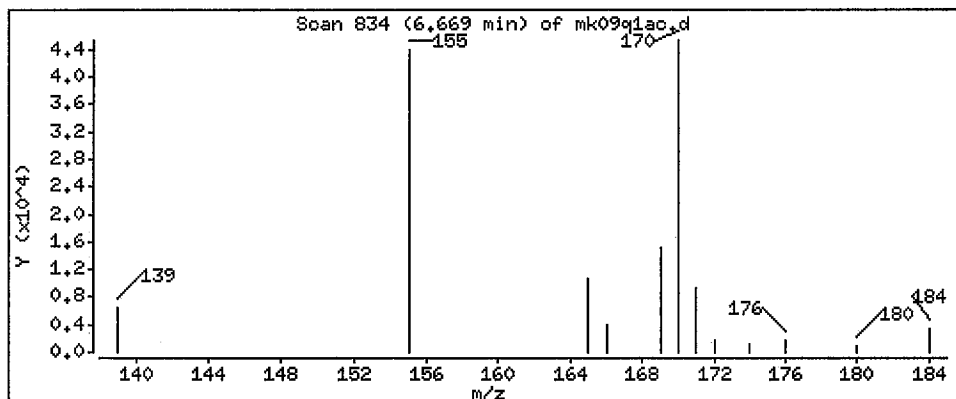
Operator: 11211

Column phase: Varian: 5MS

Column diameter: 0.25

25 2,3,5 Trimethylnaphthalene

Concentration: 88.4 ng/sample



Data File: /var/chem/gcms/mp.i/P072911.b/mk09q1ac.d

Date : 29-JUL-2011 16:19

Client ID: EXM-SRU-H0010-R2-C0

Instrument: mp.i

Sample Info: ,,0,,

Purge Volume: 1.0

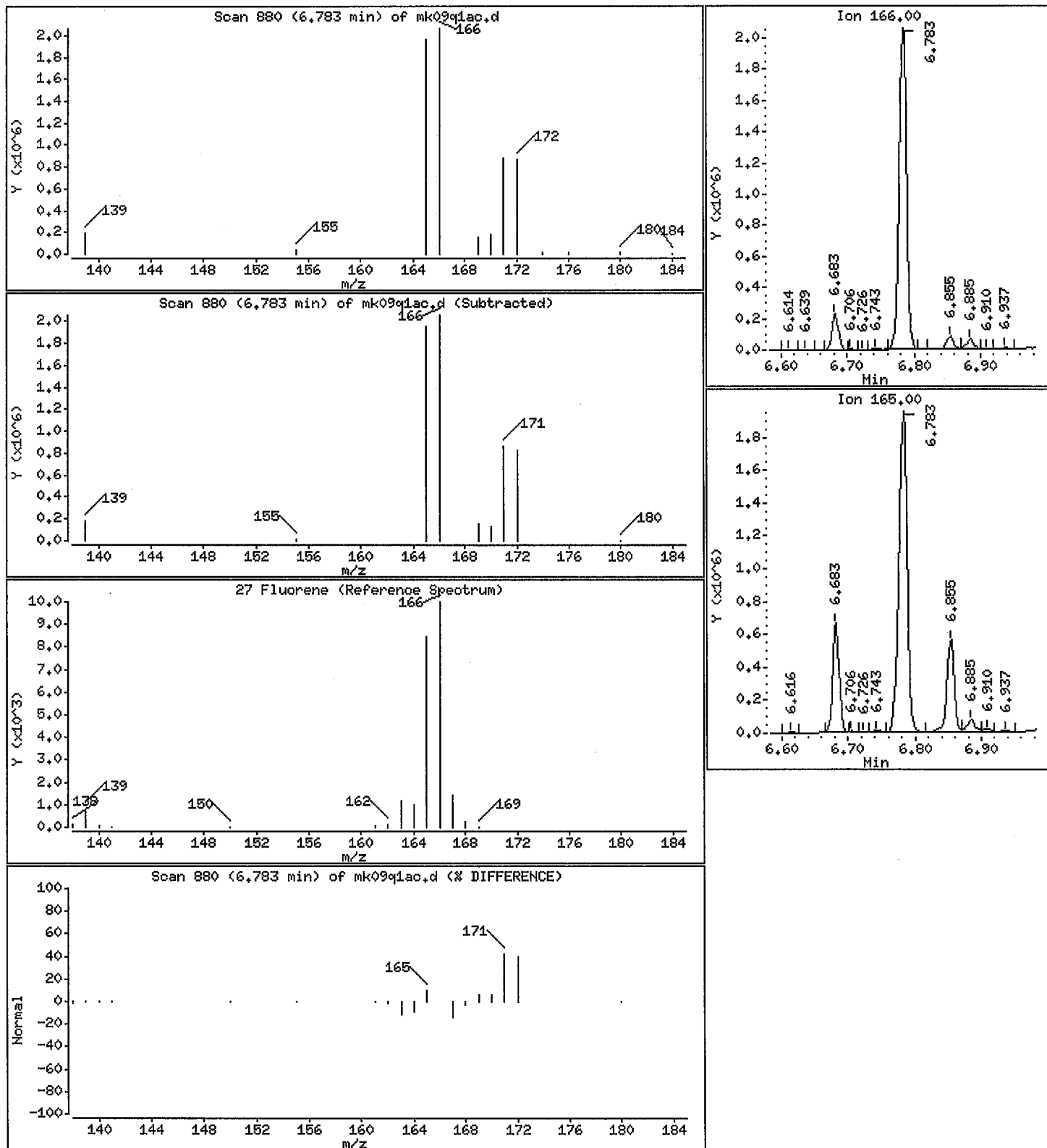
Operator: 11211

Column phase: Varian: SMS

Column diameter: 0.25

27 Fluorene

Concentration: 2000 ng/sample



EM-BTRF-001091

Data File: /var/chem/gcms/mp.i/P072911.b/mk09q1ao.d

Date : 29-JUL-2011 16:19

Client ID: EXH-SRU-H0010-R2-C0

Instrument: mp.i

Sample Info: ,,0,,,

Purge Volume: 1.0

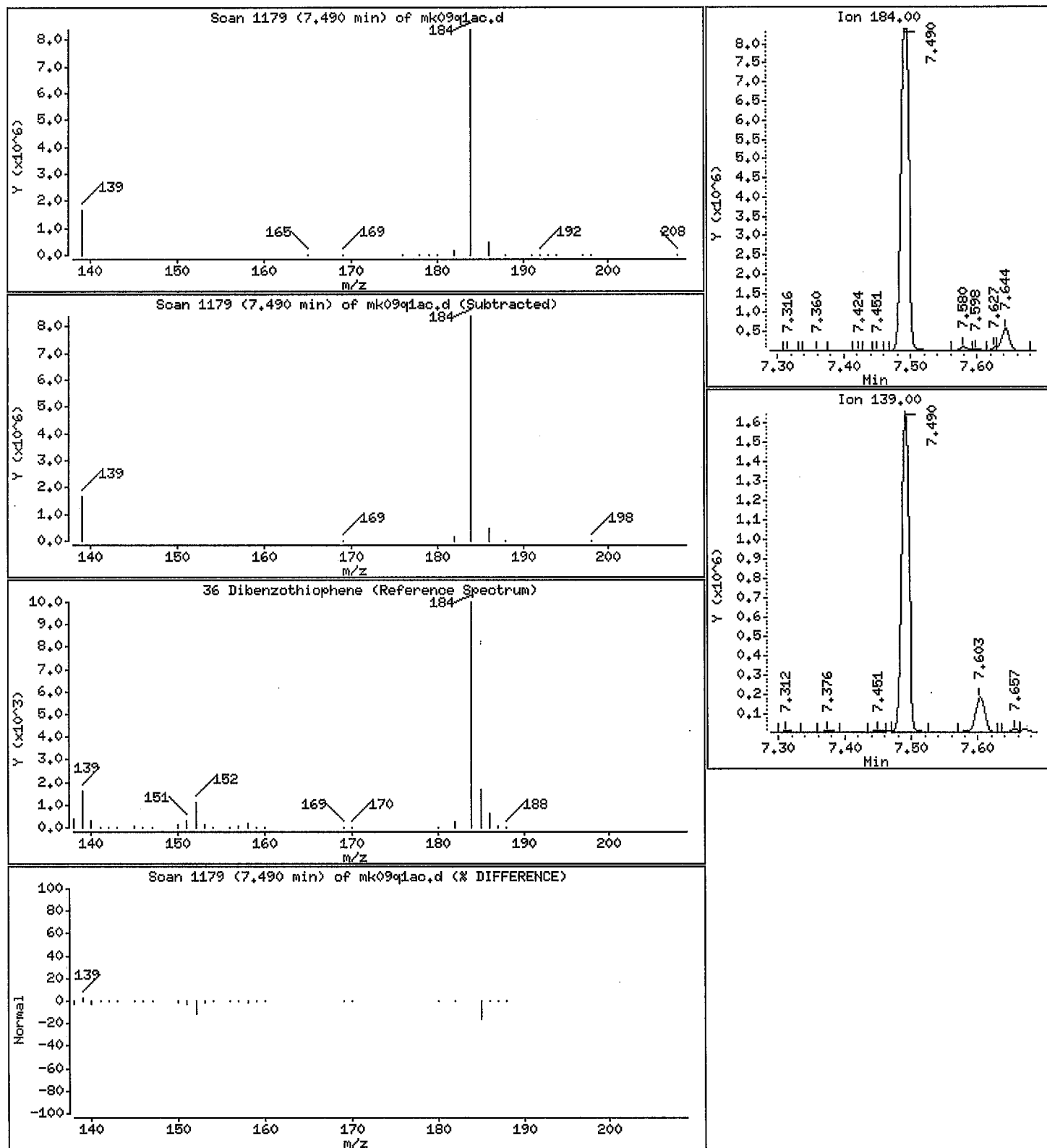
Operator: 11211

Column phase: Varian: 5MS

Column diameter: 0.25

36 Dibenzothiophene

Concentration: 6350 ng/sample



EM-BTRF-001092

Data File: /var/chem/gcms/mp.i/P072911.b/mk09q1ao.d

Date: 29-JUL-2011 16:19

Client ID: EXH-SRU-M0010-R2-C0

Instrument: mp.i

Sample Info: ,,0,,,

Purge Volume: 1.0

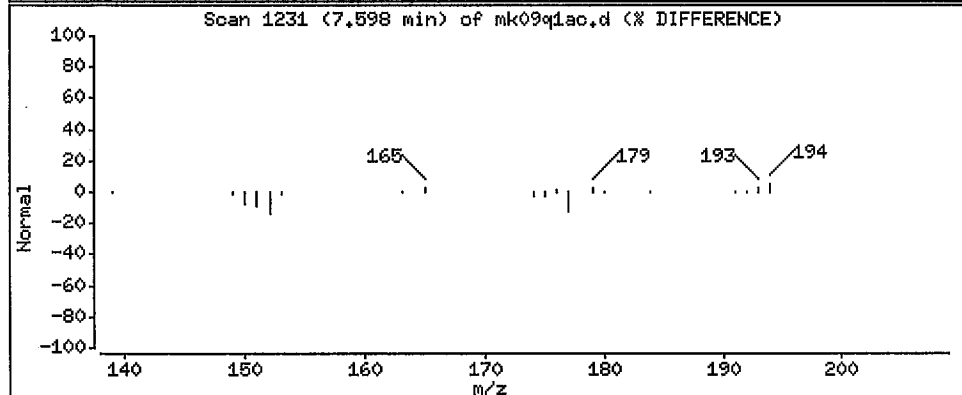
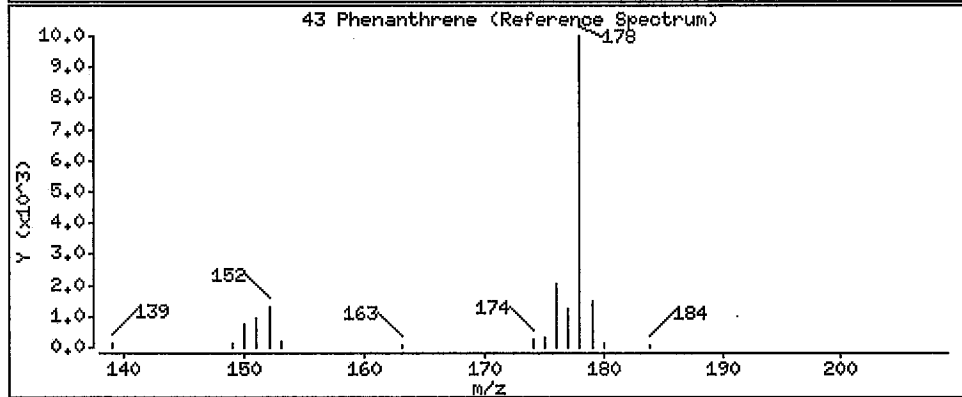
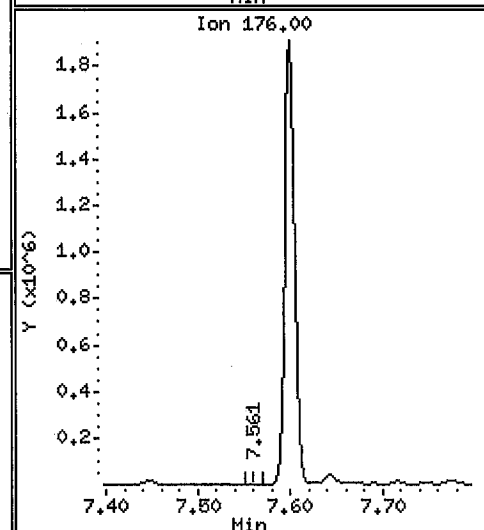
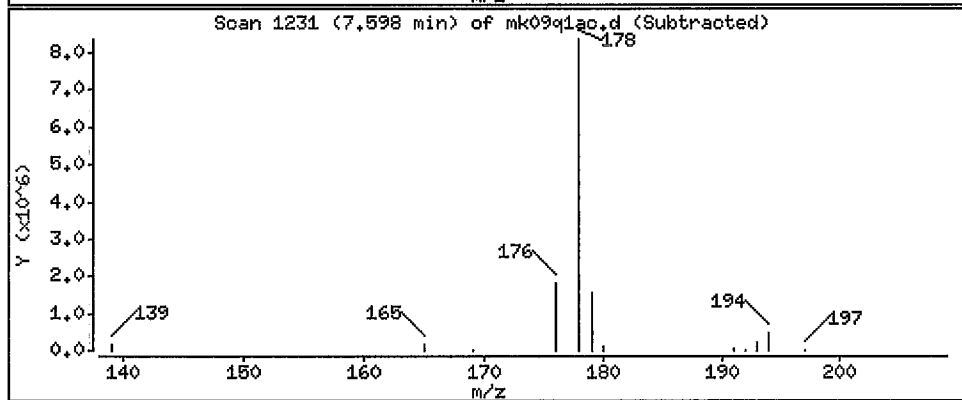
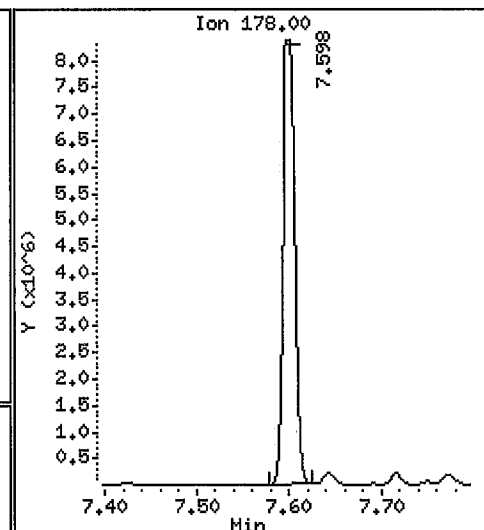
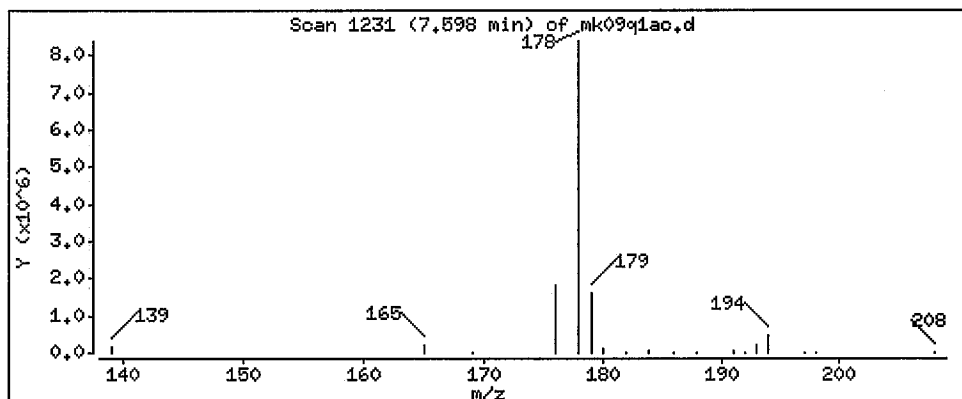
Operator: 11211

Column phase: Variant 5MS

Column diameter: 0.25

43 Phenanthrene

Concentration: 7170 ng/sample



7.561
7.598
(b)

Data File: /var/chem/gcms/mp.i/P072911.b/mk09q1ao.d

Date : 29-JUL-2011 16:19

Client ID: EXM-SRU-M0010-R2-C0

Instrument: mp.i

Sample Info: ,,0,,

Purge Volume: 1.0

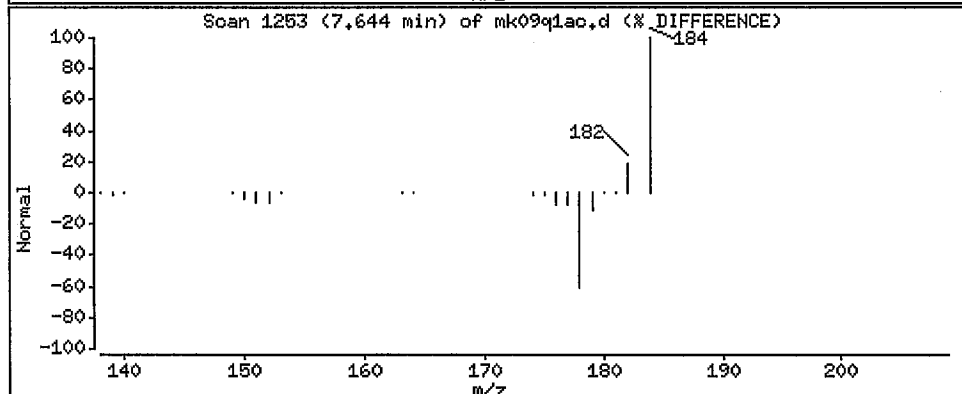
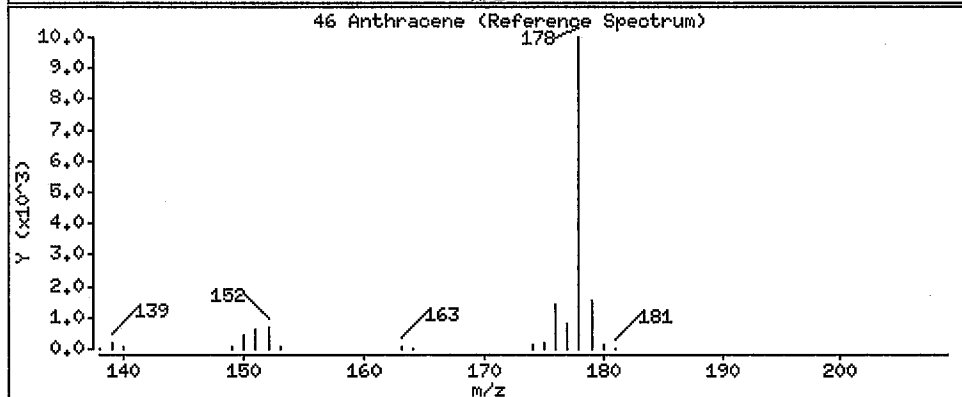
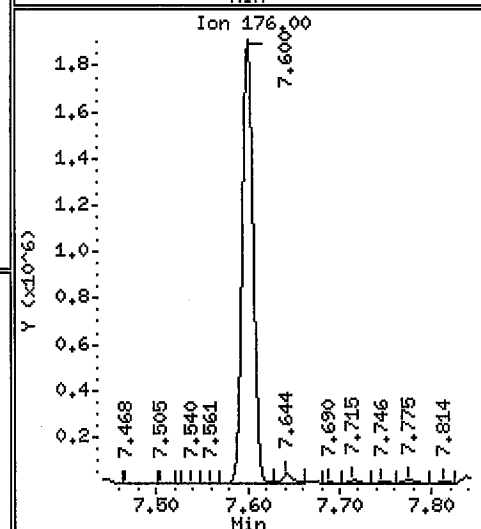
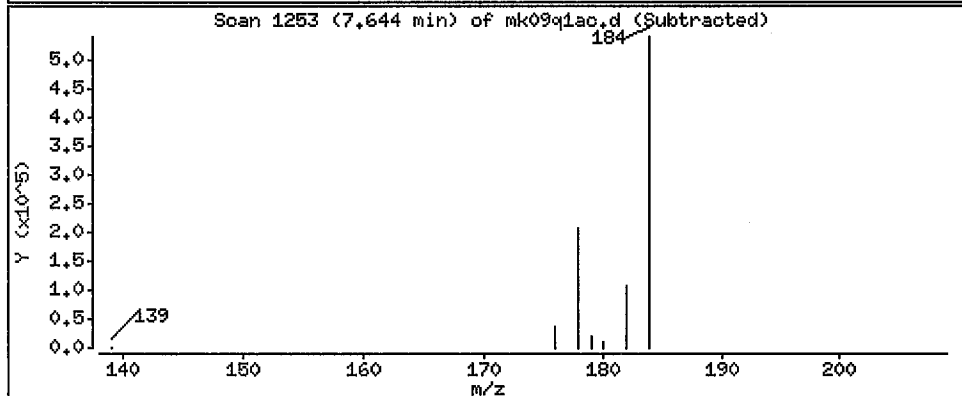
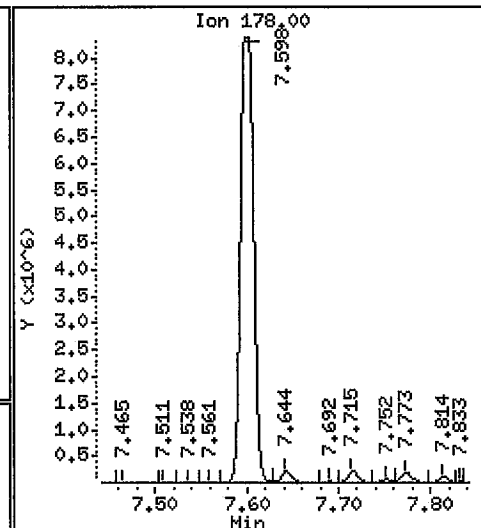
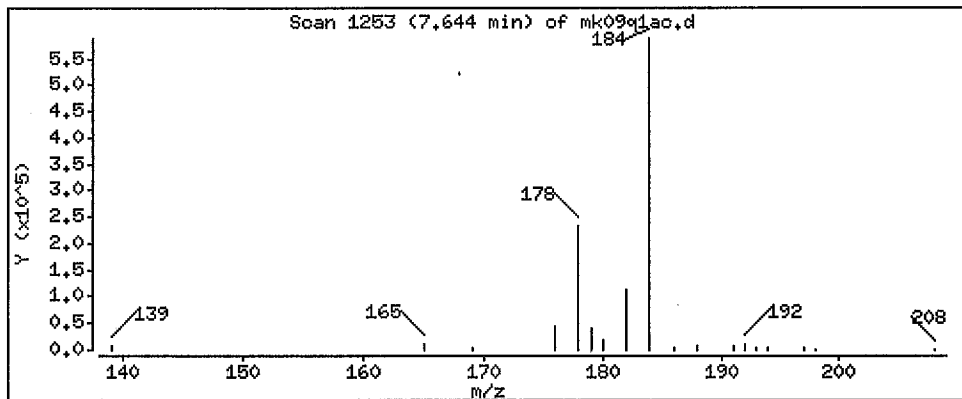
Operator: 11211

Column phase: Variant: 5MS

Column diameter: 0.25

46 Anthracene

Concentration: 133 ng/sample



Data File: /var/chem/gcms/mp.i/P072911.b/mk09q1ac.d

Date : 29-JUL-2011 16:19

Client ID: EXM-SRU-M0010-R2-C0

Instrument: mp.i

Sample Info: ,,0,,,

Purge Volume: 1.0

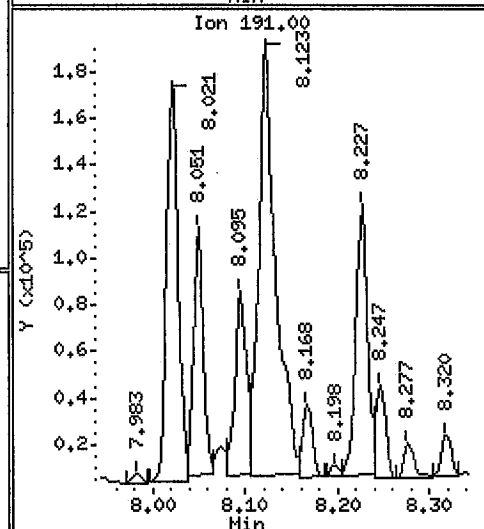
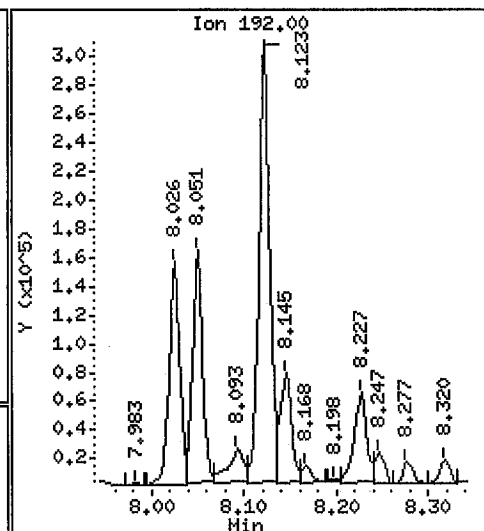
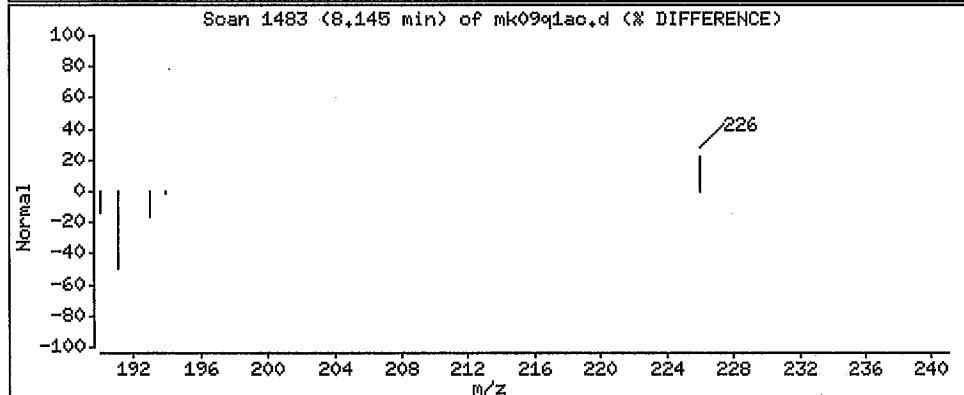
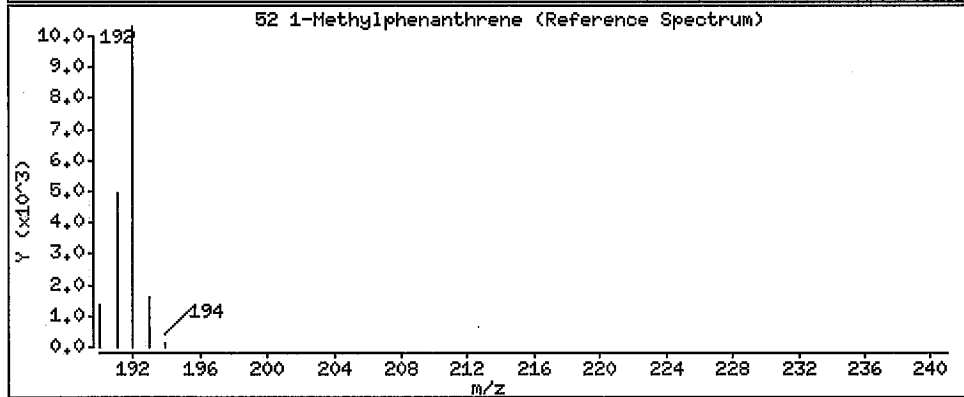
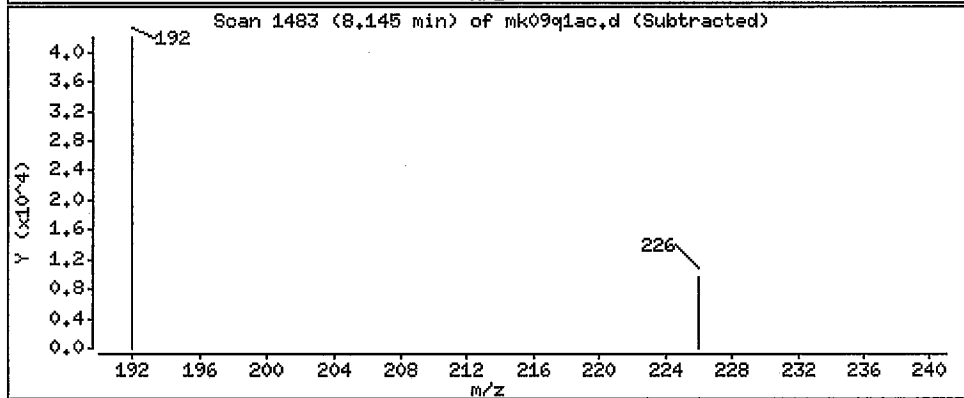
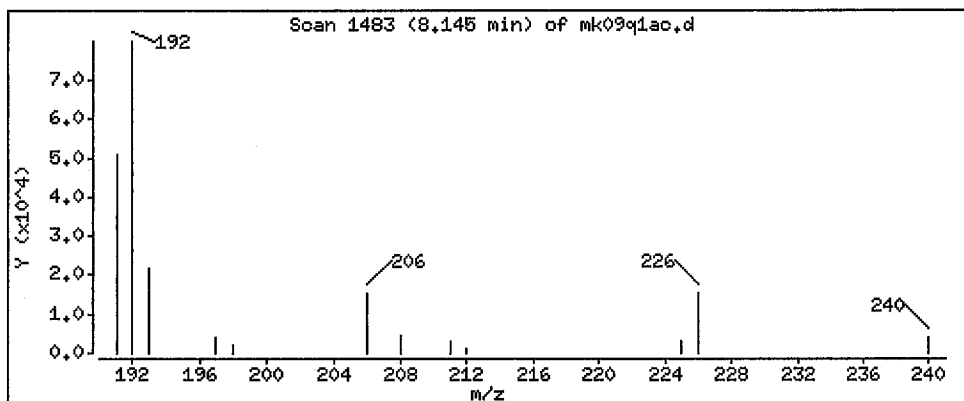
Operator: 11211

Column phase: Varian: 5MS

Column diameter: 0.25

52 1-Methylphenanthrene

Concentration: 102 ng/sample



Data File: /var/chem/gcms/mp.i/P072911.b/mk09q1ao.d

Date : 29-JUL-2011 16:19

Client ID: EXM-SRU-M0010-R2-C0

Instrument: mp.i

Sample Info: ,,0,,,

Purge Volume: 1.0

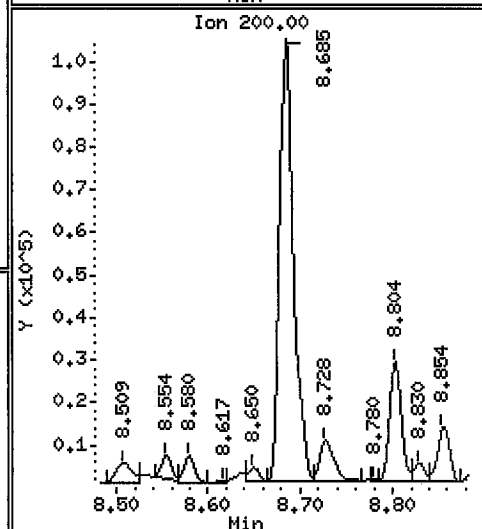
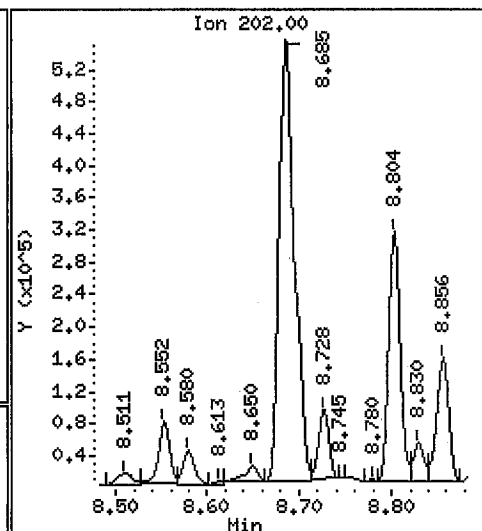
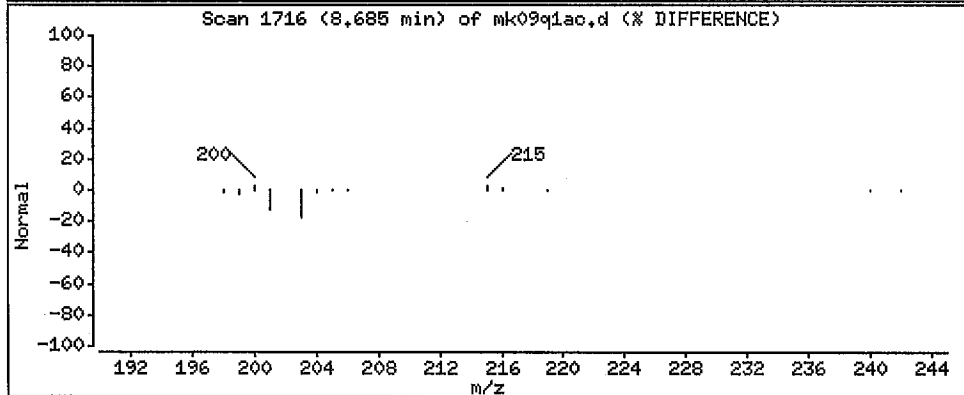
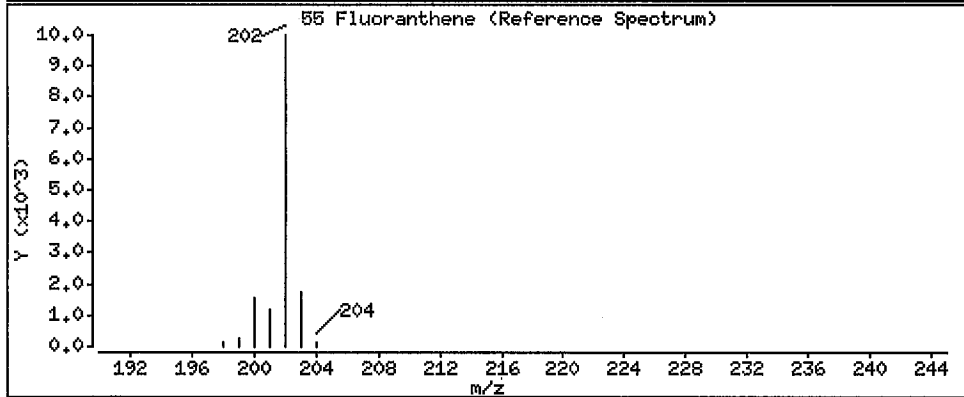
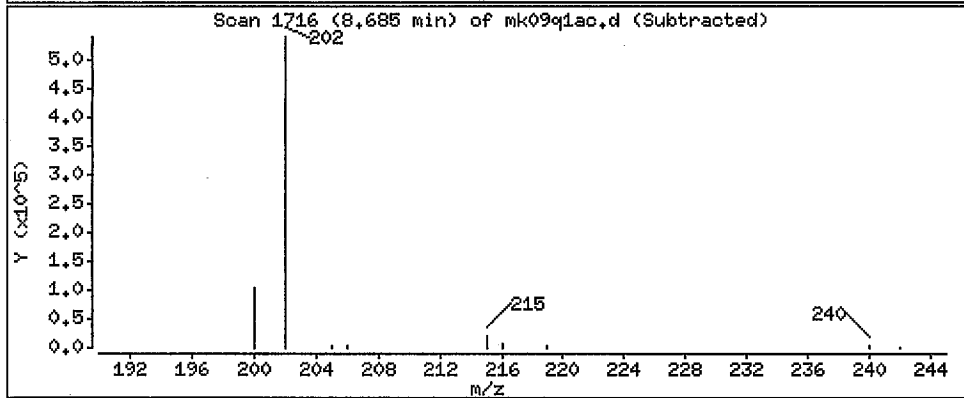
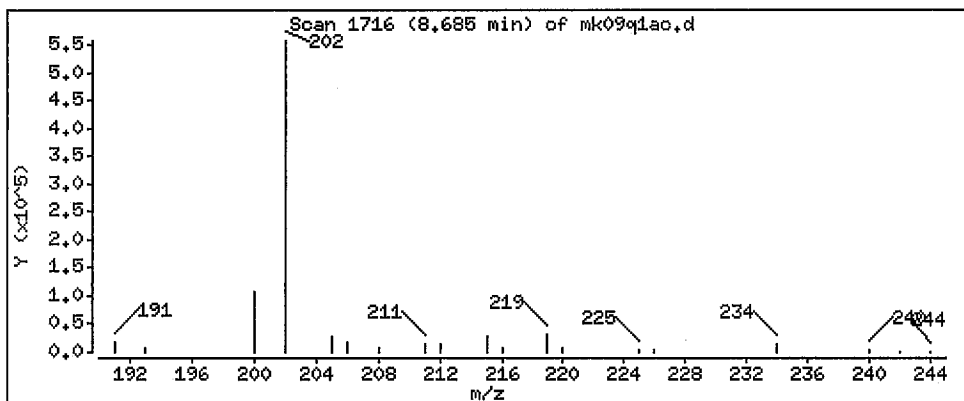
Operator: 11211

Column phase: Variant: 5MS

Column diameter: 0.25

55 Fluoranthene

Concentration: 467 ng/sample



Data File: /var/chem/gcms/mp.i/P072911.b/mk09q1ao.d

Date : 29-JUL-2011 16:19

Client ID: EXM-SRU-M0010-R2-C0

Instrument: mp.i

Sample Info: ,,0,,,

Purge Volume: 1.0

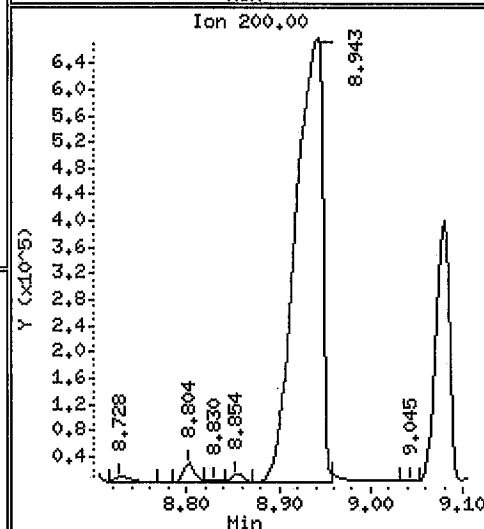
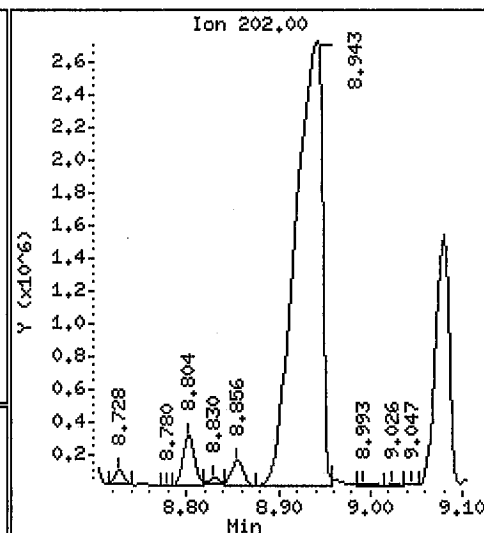
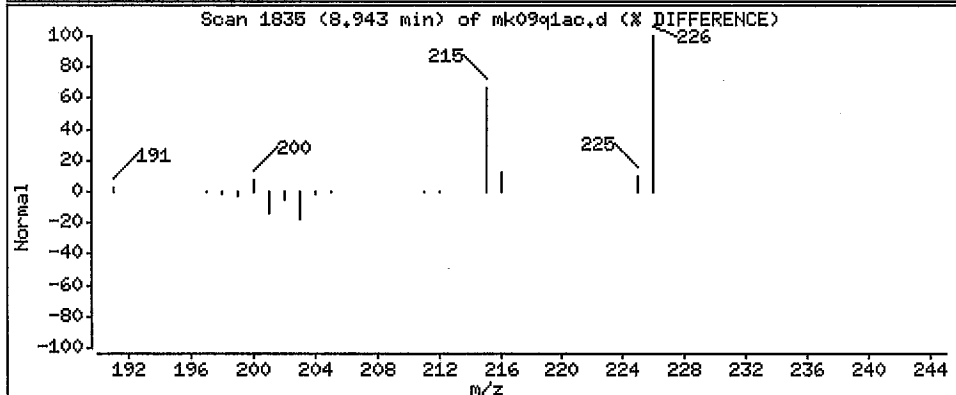
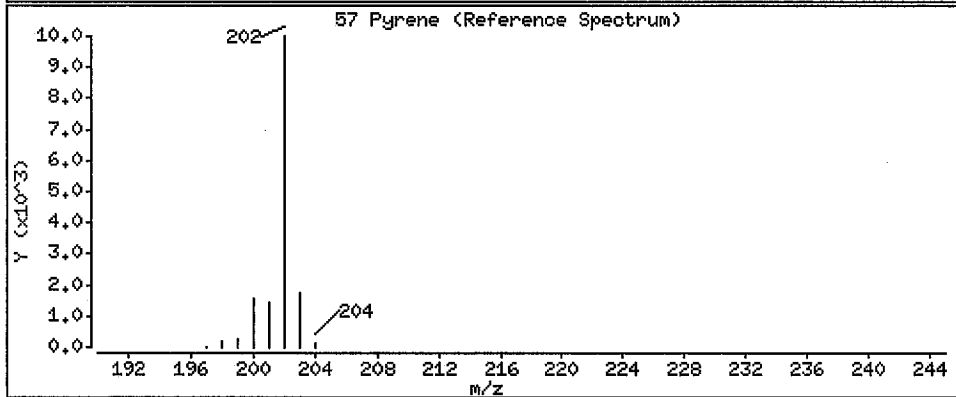
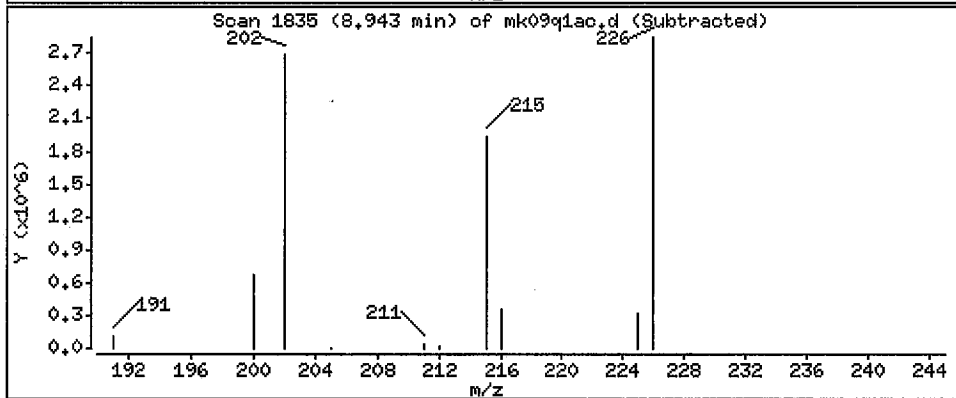
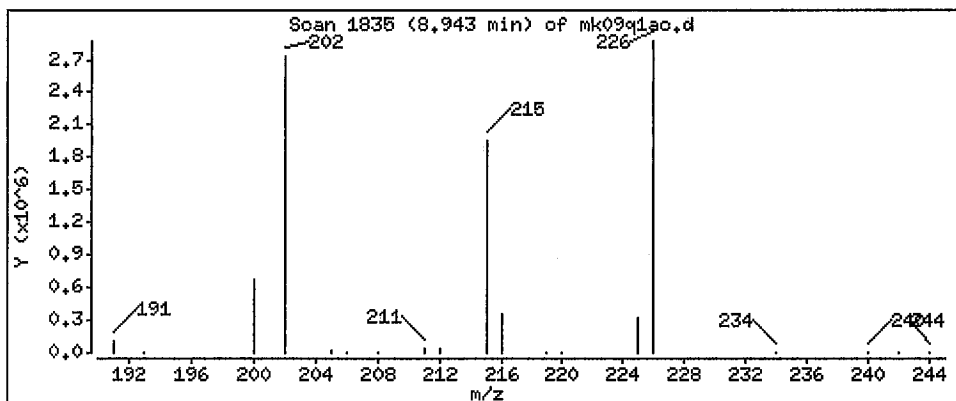
Operator: 11211

Column phase: Varian: 5MS

Column diameter: 0.25

57 Pyrene

Concentration: 4140 ng/sample



EM-BTRF-001097

Data File: /var/chem/gcms/mp.i/P072911.b/mk09q1ac.d

Date : 29-JUL-2011 16:19

Client ID: EXM-SRU-M0010-R2-C0

Instrument: mp.i

Sample Info: ,,0,,,

Purge Volume: 1.0

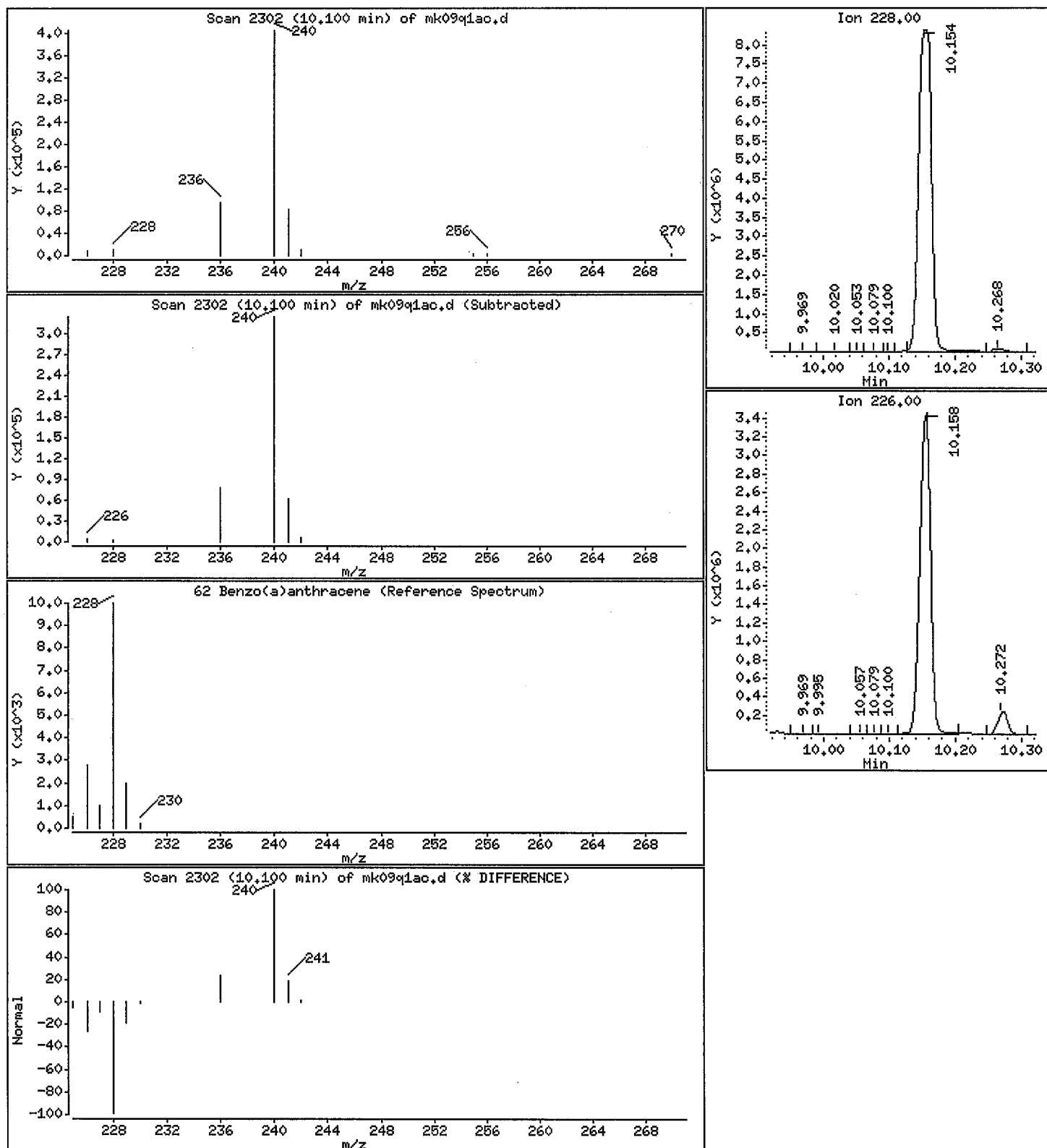
Operator: 11211

Column phase: Variant 5MS

Column diameter: 0.25

62 Benzo(a)anthracene

Concentration: 1.86 ng/sample



EM-BTRF-001098

Data File: /var/chem/gcms/mp.i/P072911.b/mk09q1ao.d

Date : 29-JUL-2011 16:19

Client ID: EXM-SRU-M0010-R2-C0

Instrument: mp.i

Sample Info: ,,0,,,

Purge Volume: 1.0

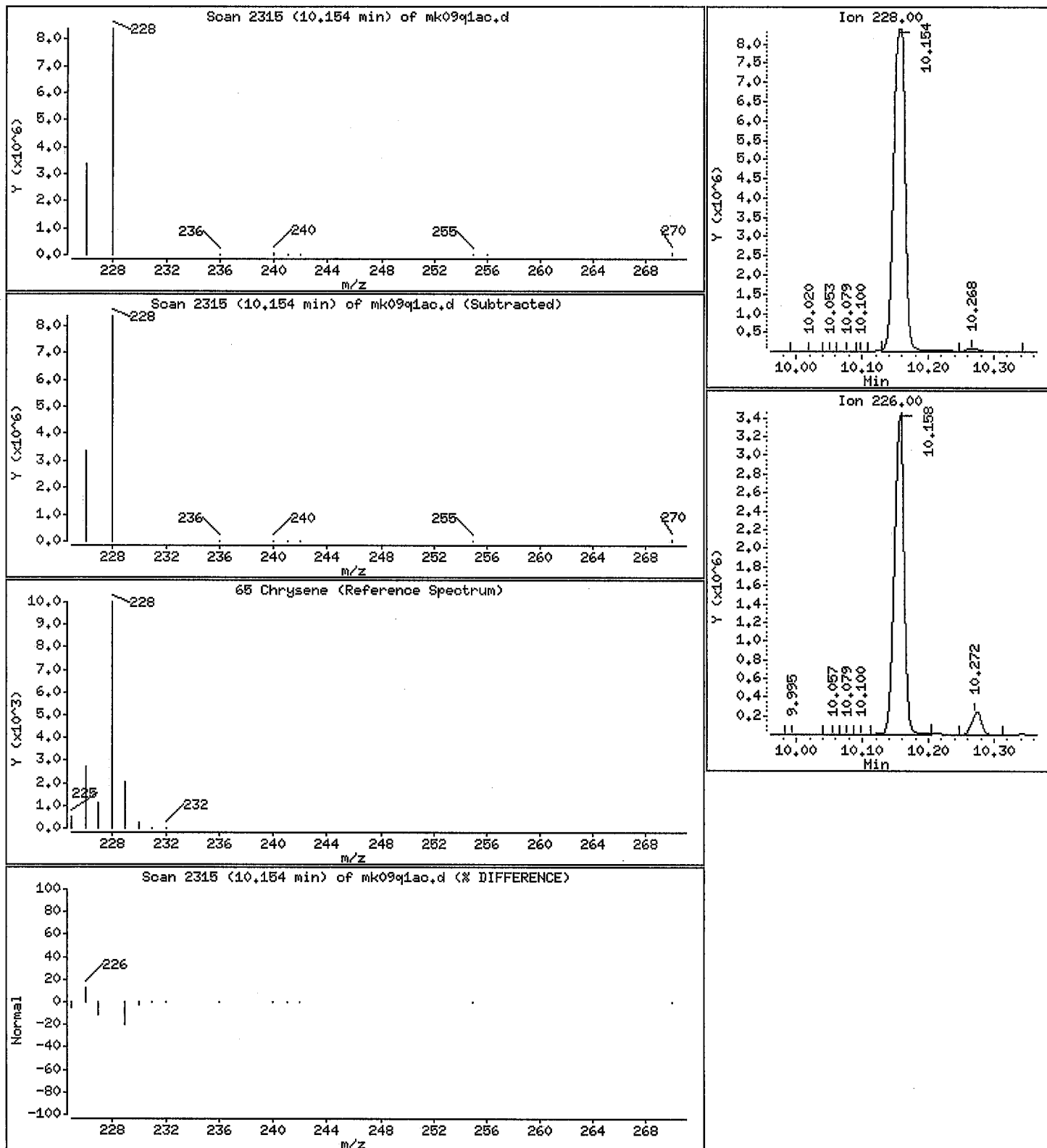
Operator: 11211

Column phase: Varian: 5MS

Column diameter: 0.25

65 Chrysene

Concentration: 12800 ng/sample



EM-BTRF-001099

Data File: /var/chem/gcms/mp.i/P072911.b/mk09q1ac.d

Date : 29-JUL-2011 16:19

Client ID: EXM-SRU-M0010-R2-C0

Instrument: mp.i

Sample Info: ,0,,,

Purge Volume: 1.0

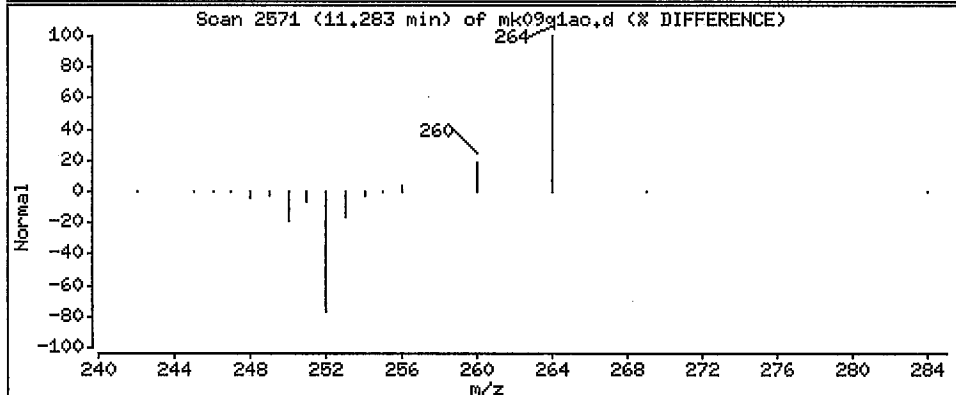
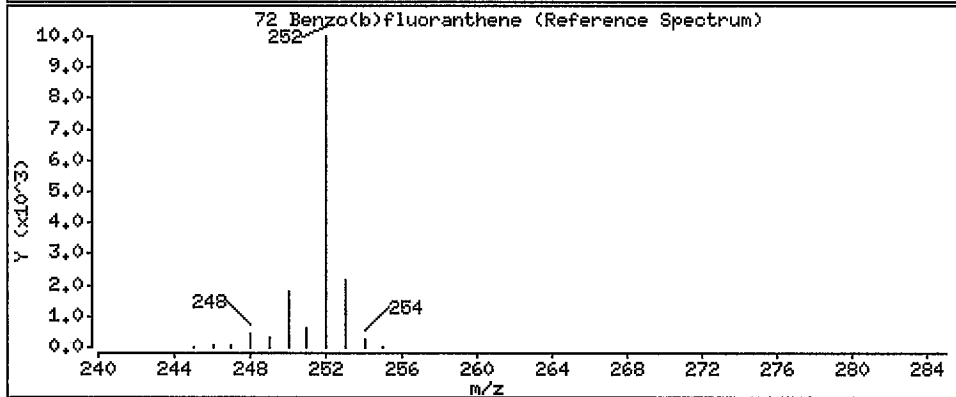
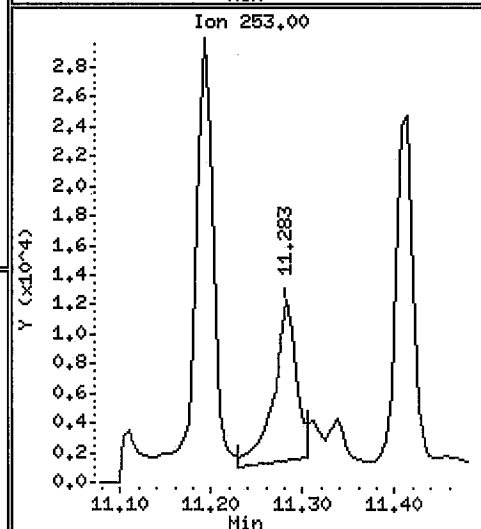
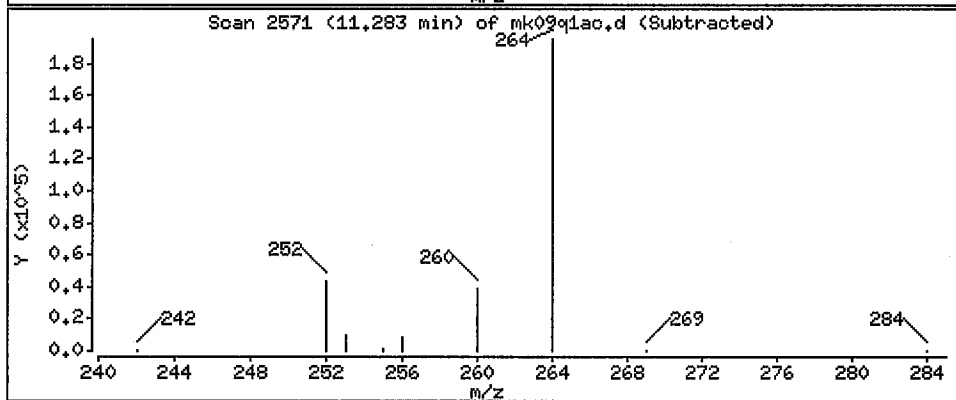
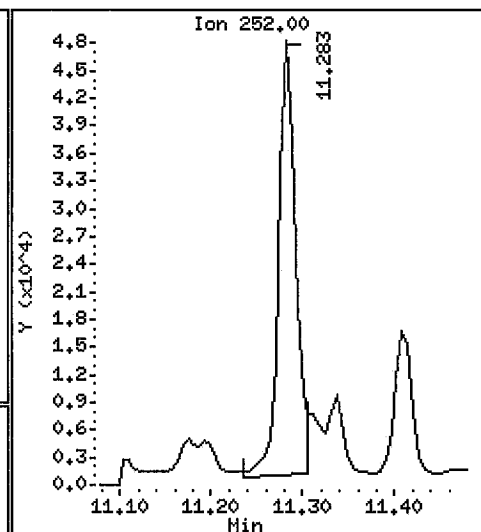
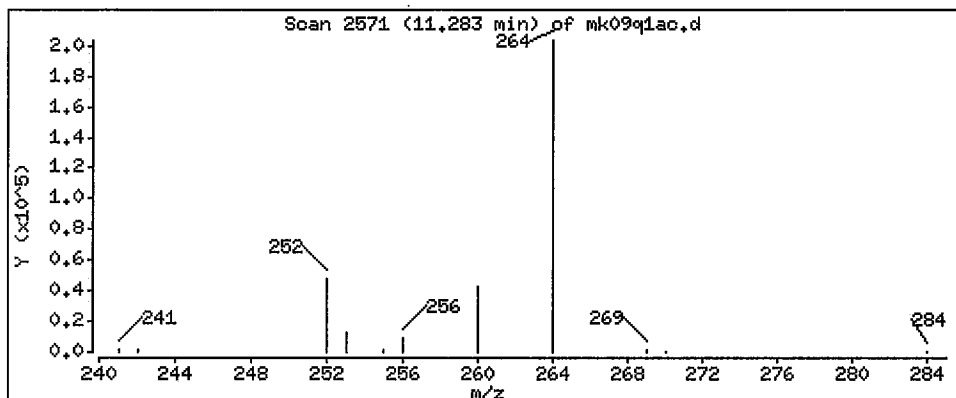
Operator: 11211

Column phase: Varian: 5MS

Column diameter: 0,25

72 Benzo(b)fluoranthene

Concentration: 51.8 ng/sample



EM-BTRF-001100

Data File: /var/chem/gcms/mp.i/P072911.b/mk09q1ao.d

Date : 29-JUL-2011 16:19

Client ID: EXM-SRU-M0010-R2-C0

Instrument: mp.i

Sample Info: ,0,,

Purge Volume: 1.0

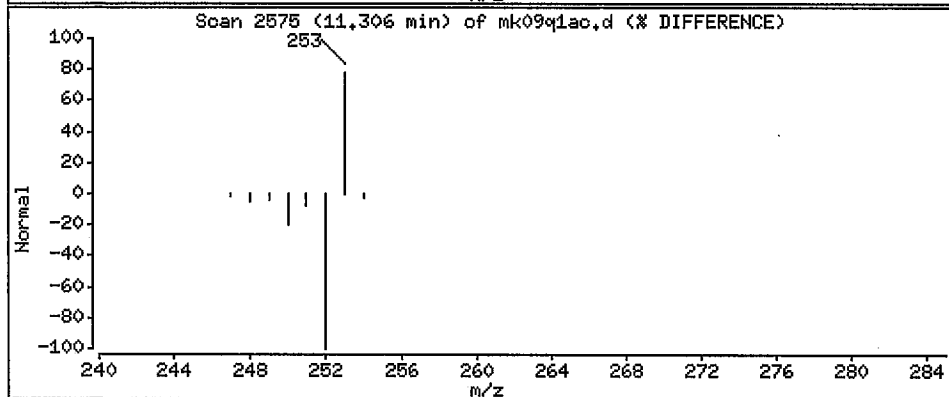
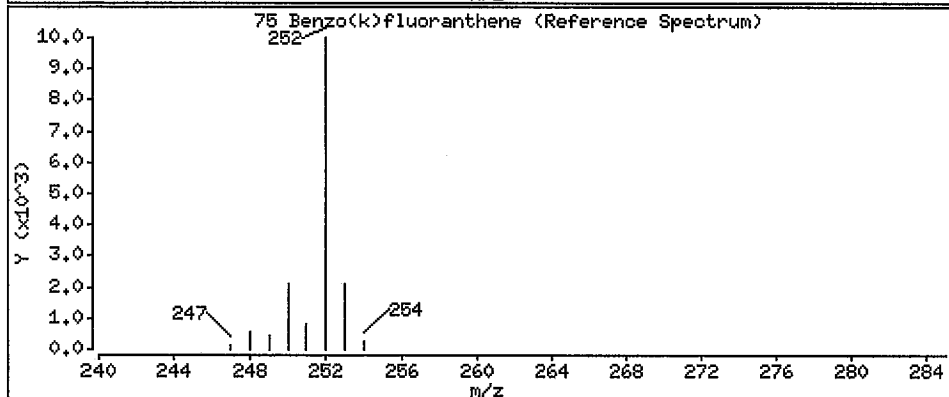
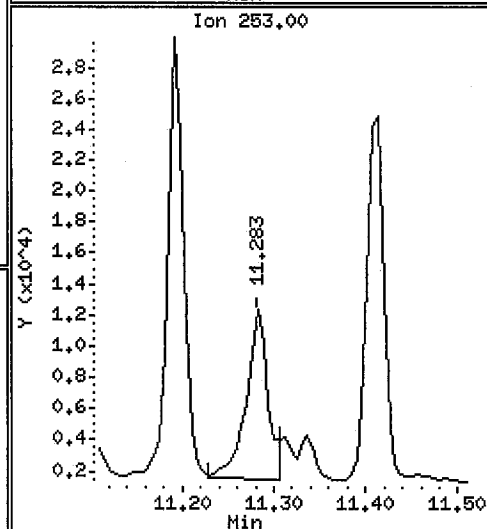
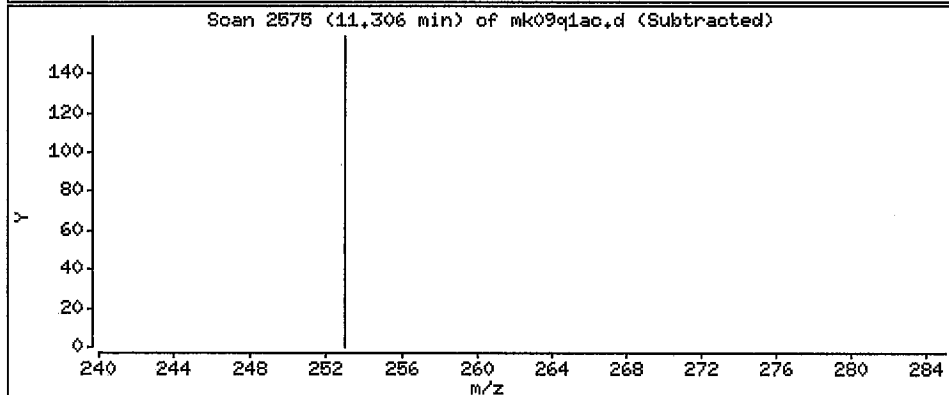
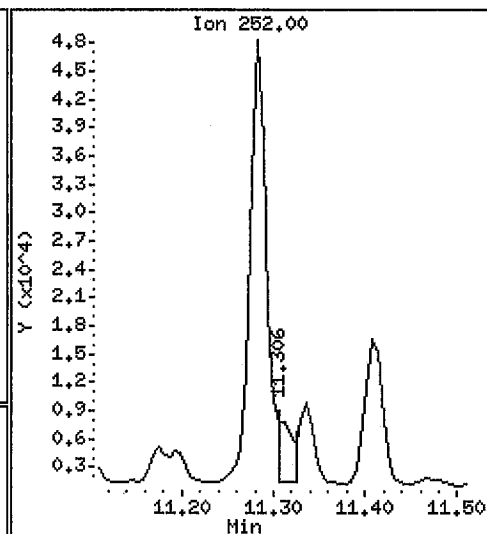
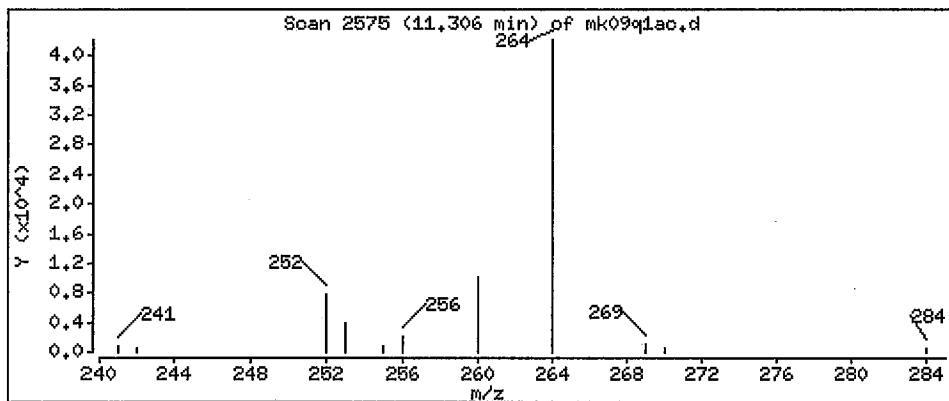
Operator: 11211

Column phase: Variant 5MS

Column diameter: 0.25

75 Benzo(k)fluoranthene

Concentration: 9.35 ng/sample



EM-BTRF-001101

Data File: /var/chem/gcms/mp.i/P072911.b/mk09q1ac.d

Date : 29-JUL-2011 16:19

Client ID: EXM-SRU-M0010-R2-C0

Instrument: mp.i

Sample Info: ,0,,

Purge Volume: 1.0

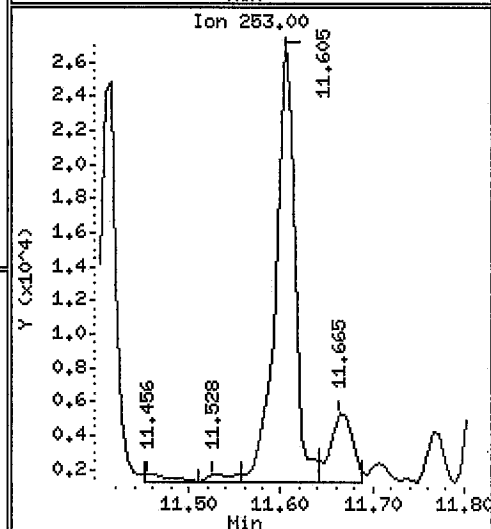
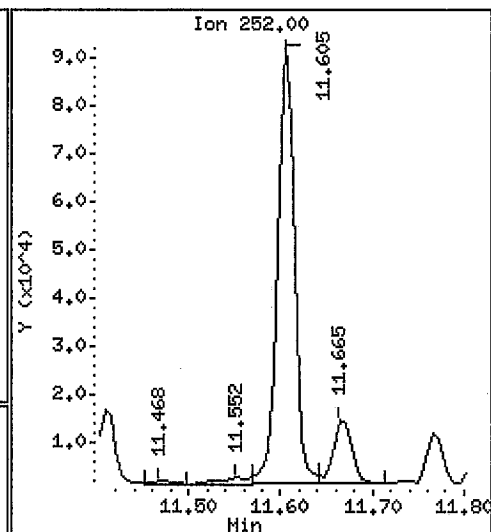
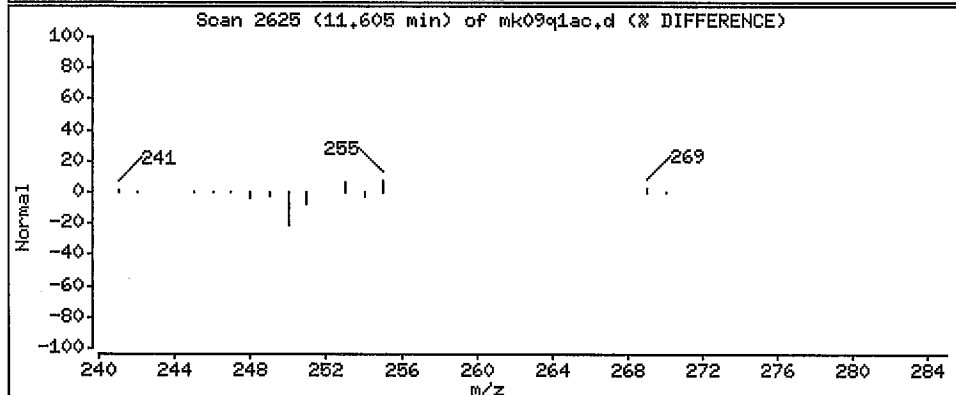
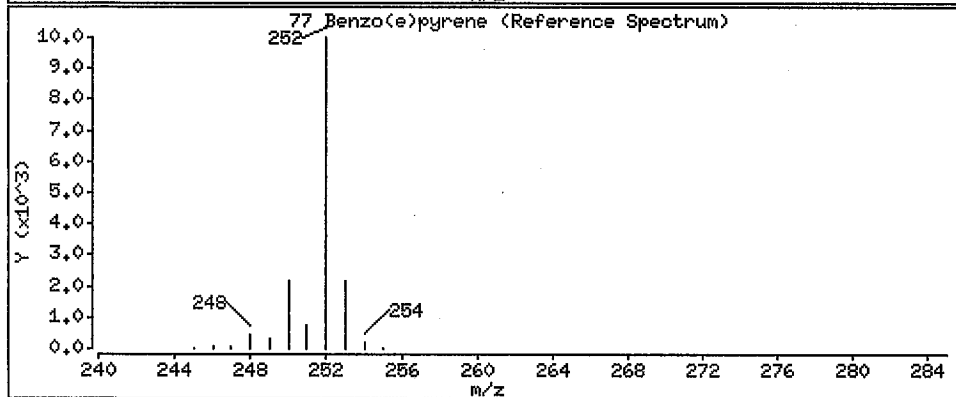
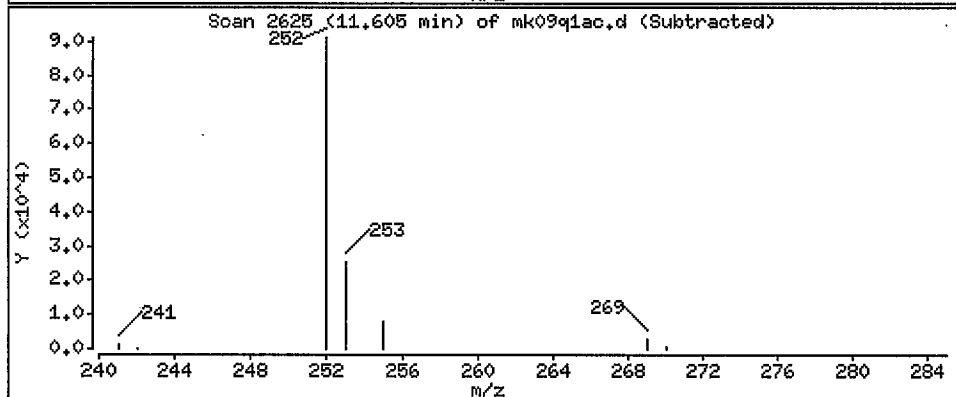
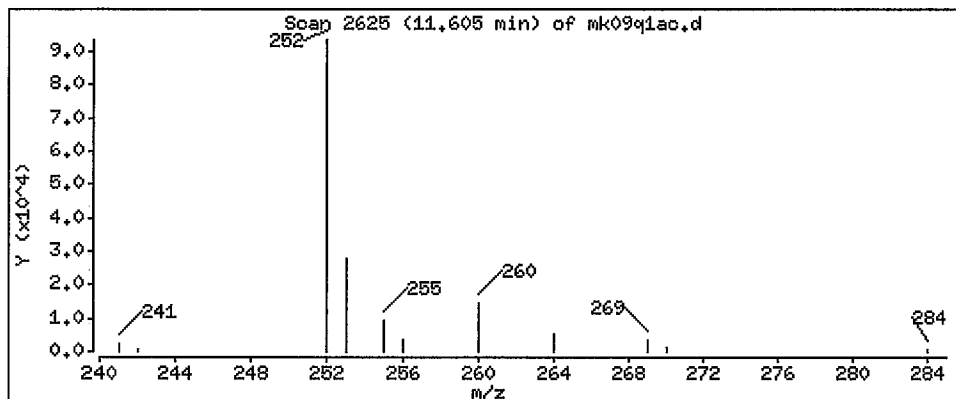
Operator: 11211

Column phase: Varian: 5MS

Column diameter: 0.25

77 Benzo(e)pyrene

Concentration: 108 ng/sample



Data File: /var/chem/gcms/mp.i/P072911.b/mk09q1ao.d

Date: 29-JUL-2011 16:19

Client ID: EXM-SRU-H0010-R2-C0

Instrument: mp.i

Sample Info: ,0,,

Purge Volume: 1.0

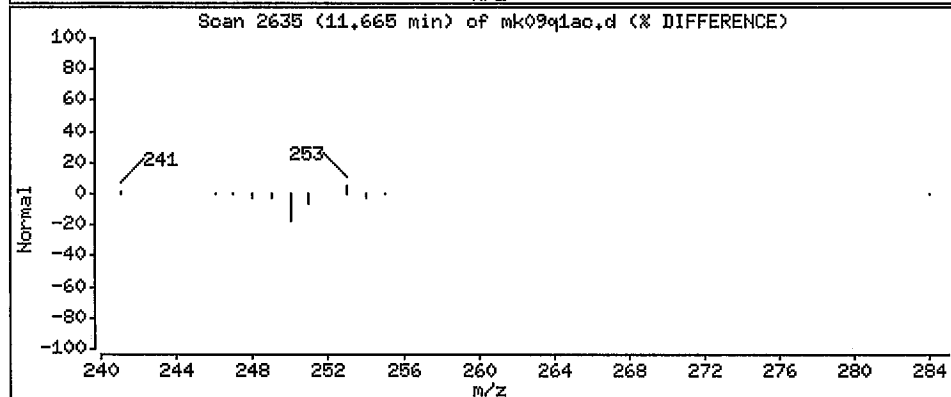
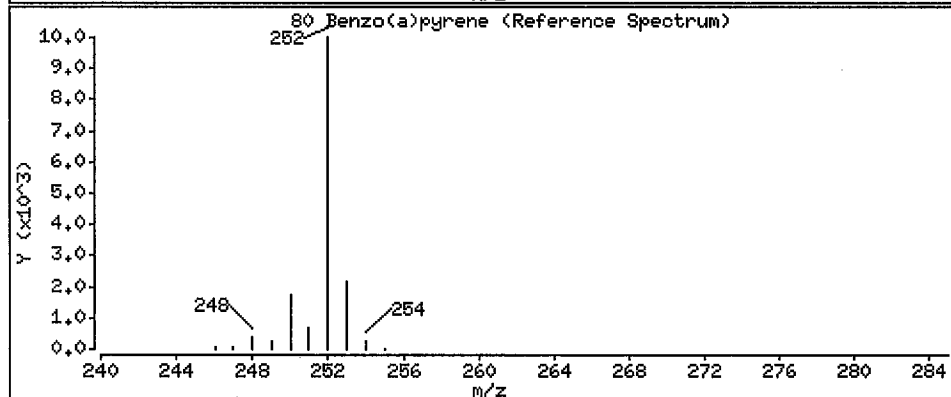
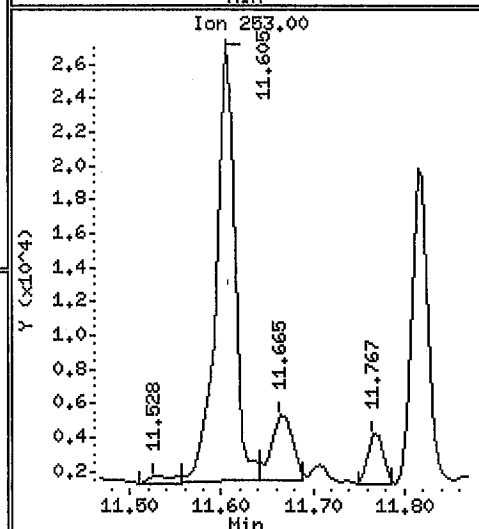
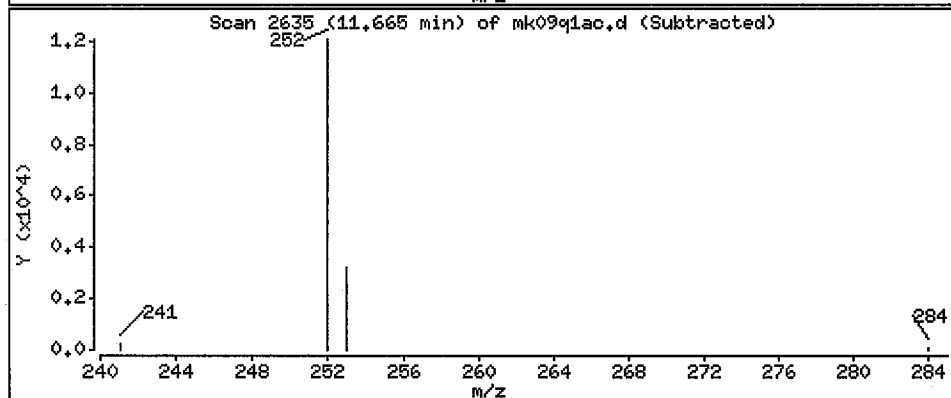
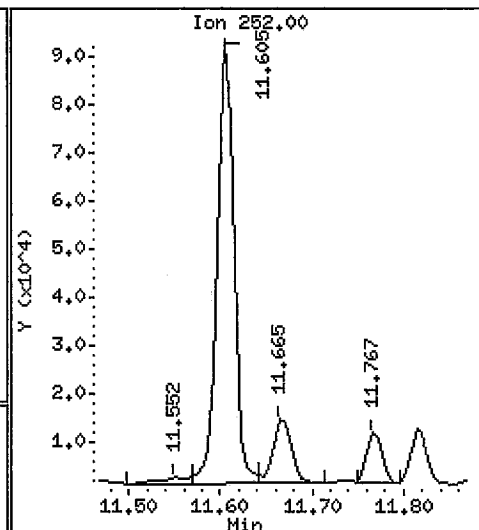
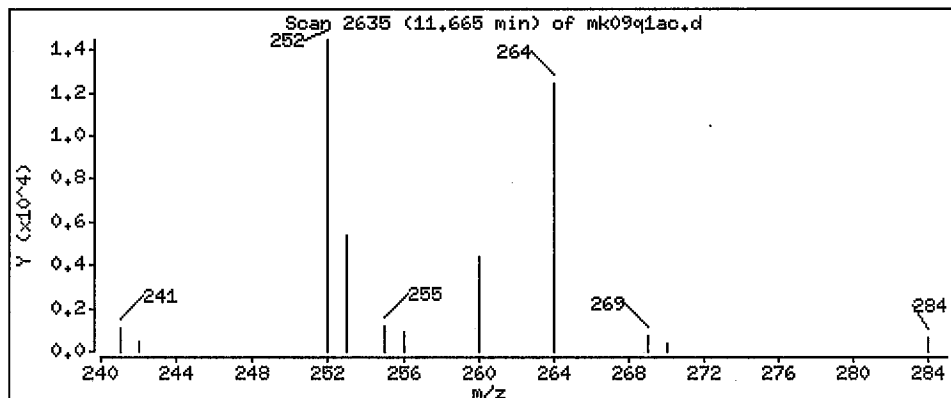
Operator: 11211

Column phase: Varian: 5MS

Column diameter: 0.25

80 Benzo(a)pyrene

Concentration: 21.3 ng/sample



EM-BTRF-001103

Data File: /var/chem/gcms/mp.i/P072911.b/mk09q1ac.d

Date : 29-JUL-2011 16:19

Client ID: EXM-SRU-M0010-R2-C0

Instrument: mp.i

Sample Info: ,0,,

Purge Volume: 1.0

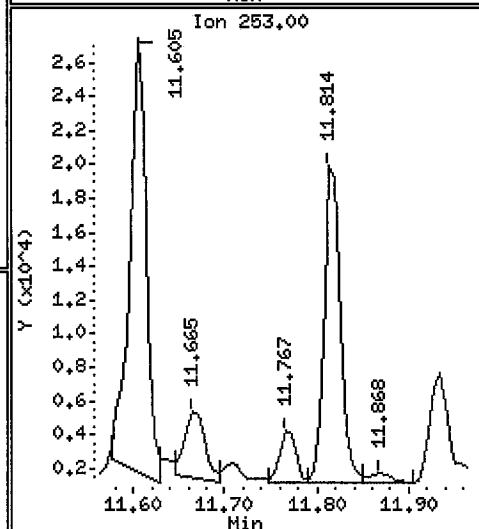
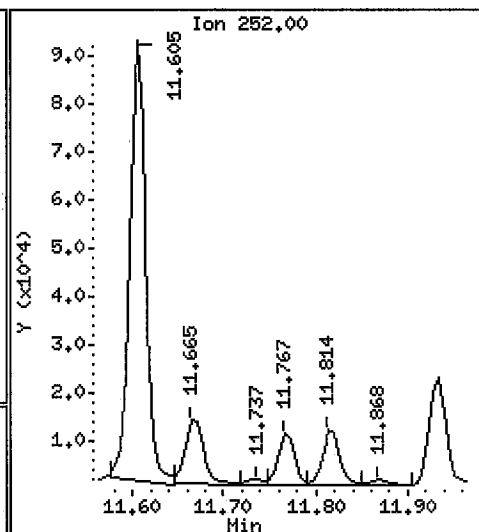
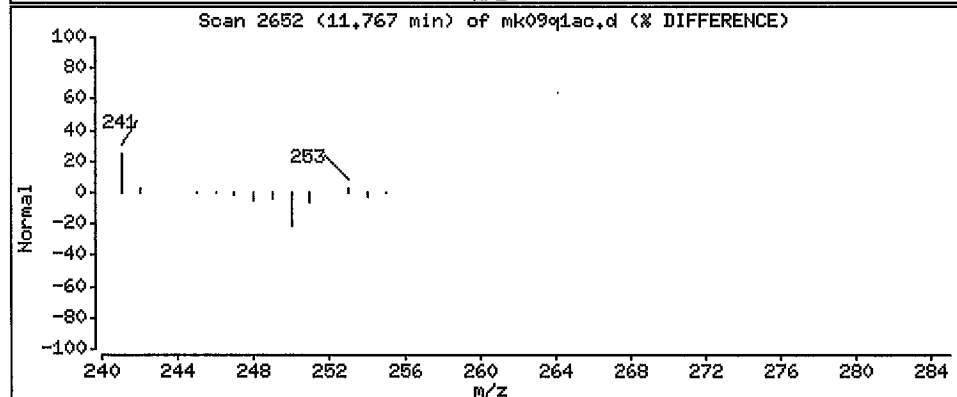
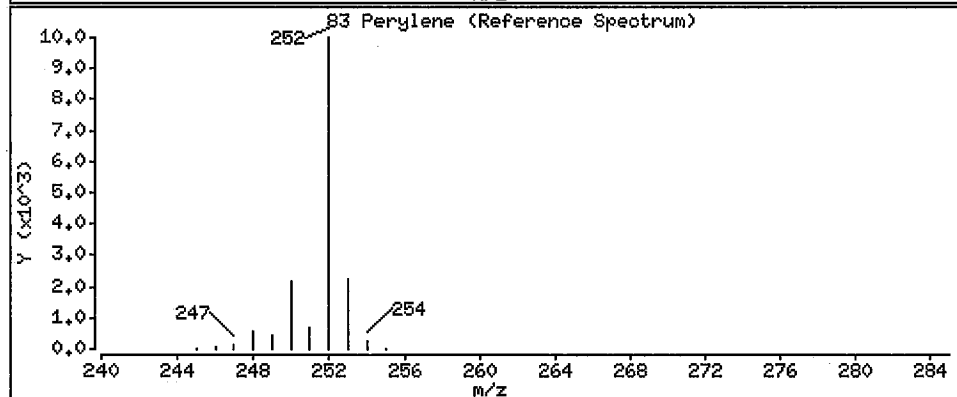
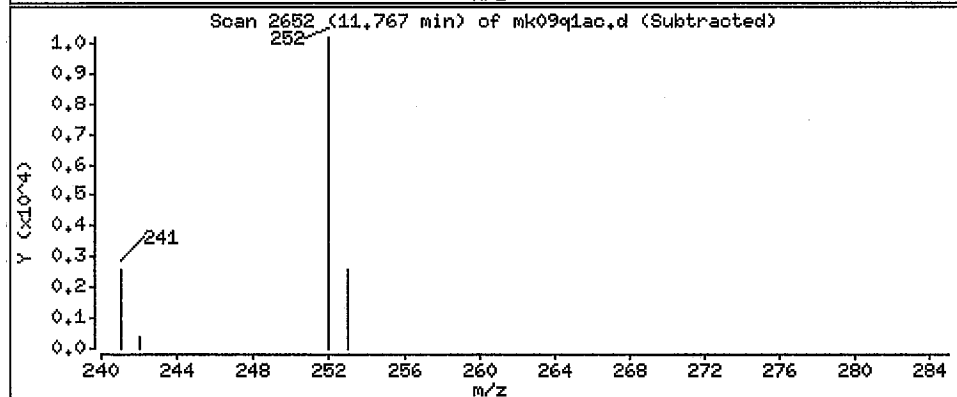
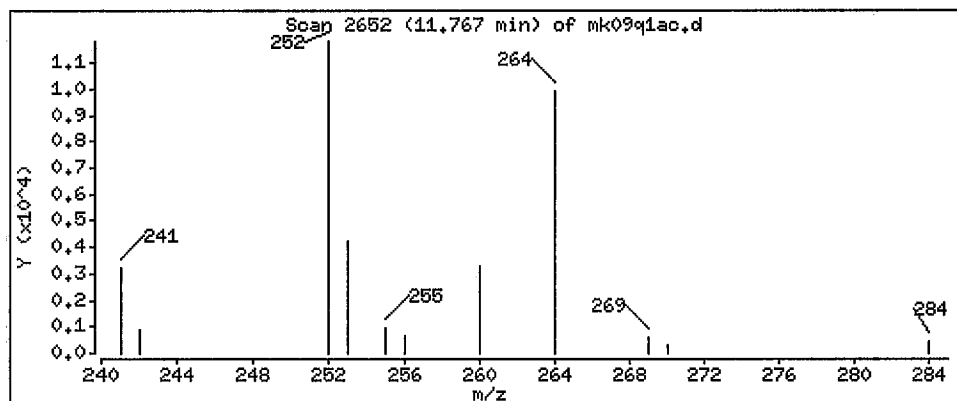
Operator: 11211

Column phase: Varian: 5MS

Column diameter: 0.25

83 Perylene

Concentration: 15.4 ng/sample



EM-BTRF-001104

Data File: /var/chem/gcms/mp.i/P072911.b/mk09q1ac.d

Date: 29-JUL-2011 16:19

Client ID: EXM-SRU-M0010-R2-C0

Instrument: mp.i

Sample Info: ,,0,,,

Purge Volume: 1.0

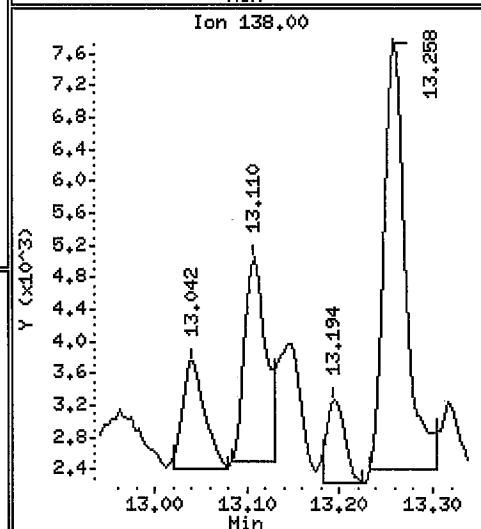
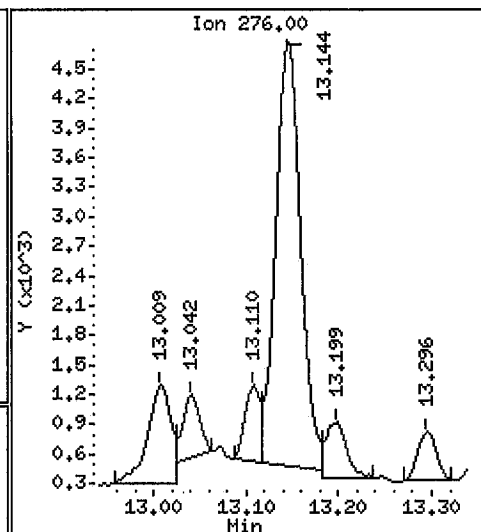
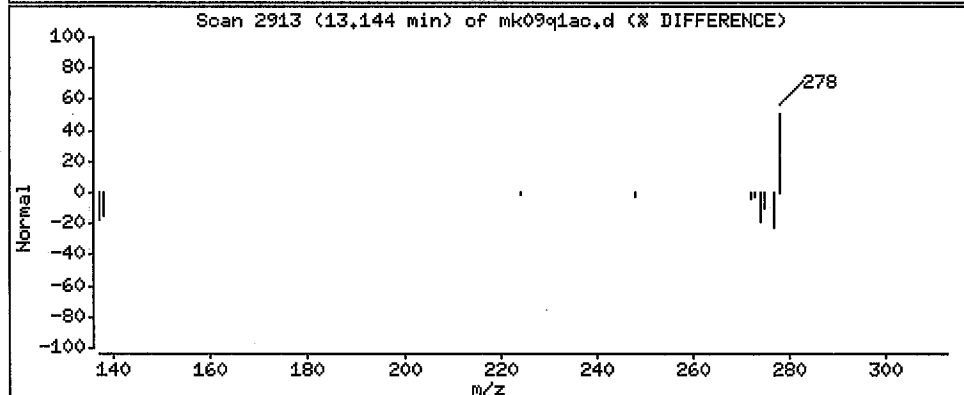
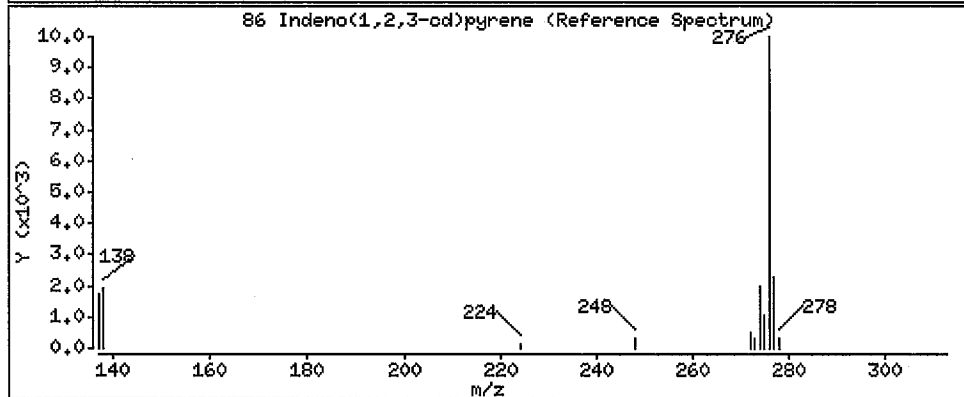
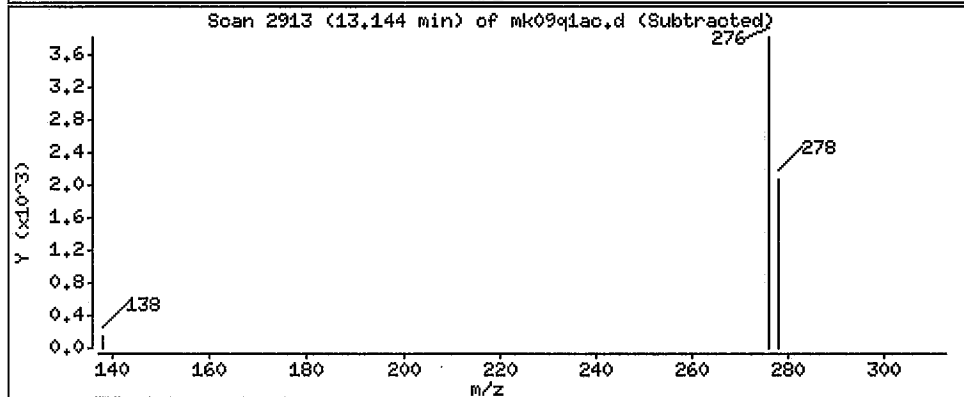
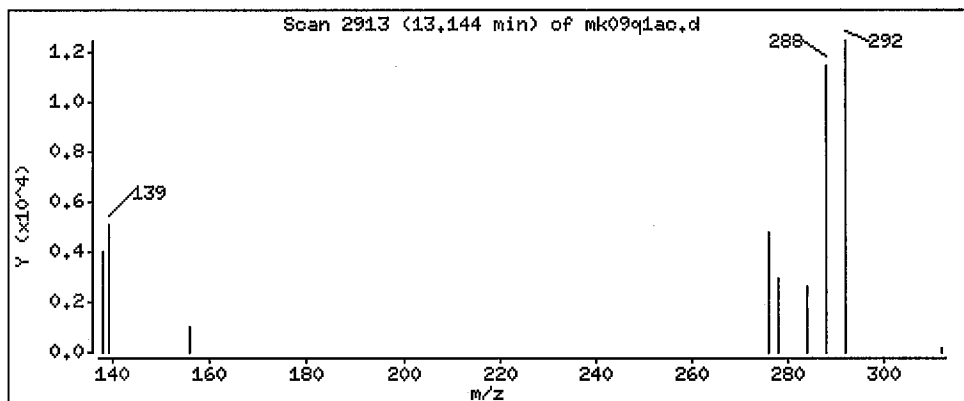
Operator: 11211

Column phase: Variant: 5MS

Column diameter: 0.25

86 Indeno(1,2,3-cd)pyrene

Concentration: 7.59 ng/sample



Data File: /var/chem/gcms/mp.i/P072911.b/mk09q1ao.d

Date: 29-JUL-2011 16:19

Client ID: EXM-SRU-M0010-R2-C0

Instrument: mp.i

Sample Info: ,,0,,,

Purge Volume: 1.0

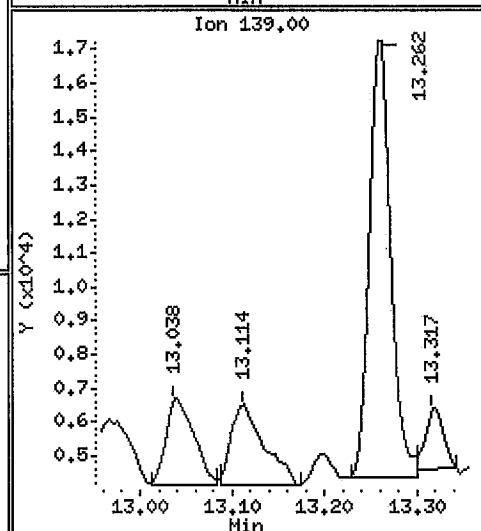
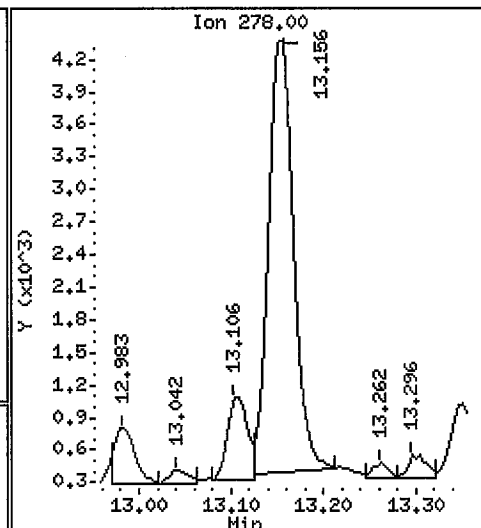
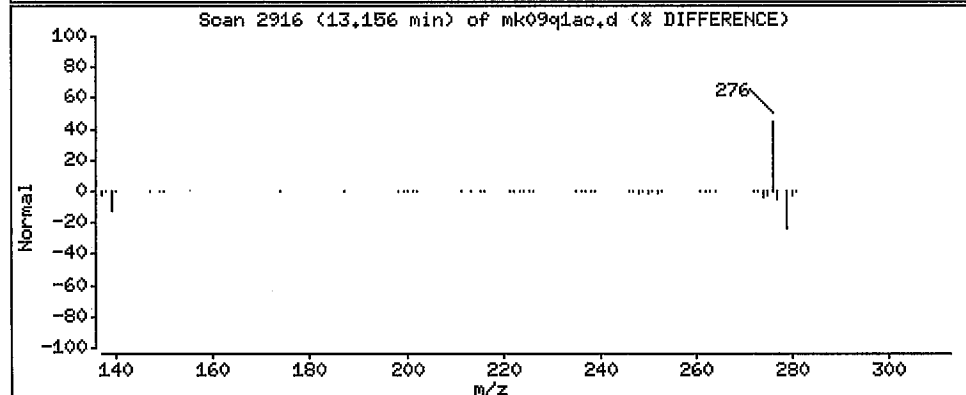
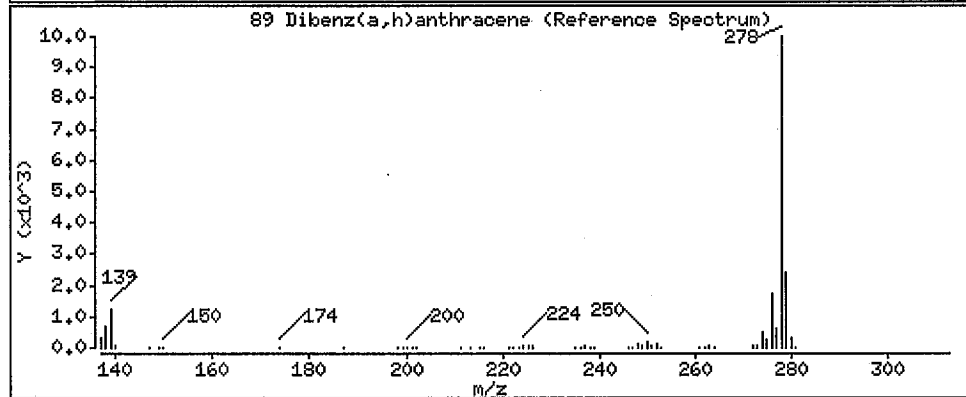
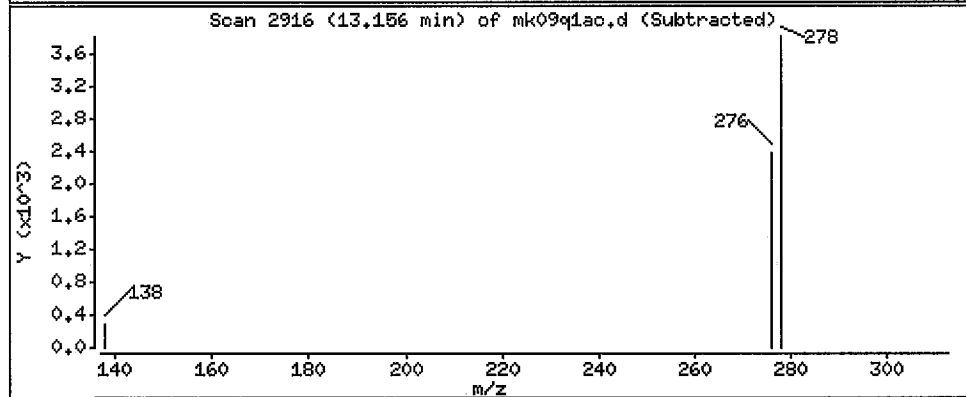
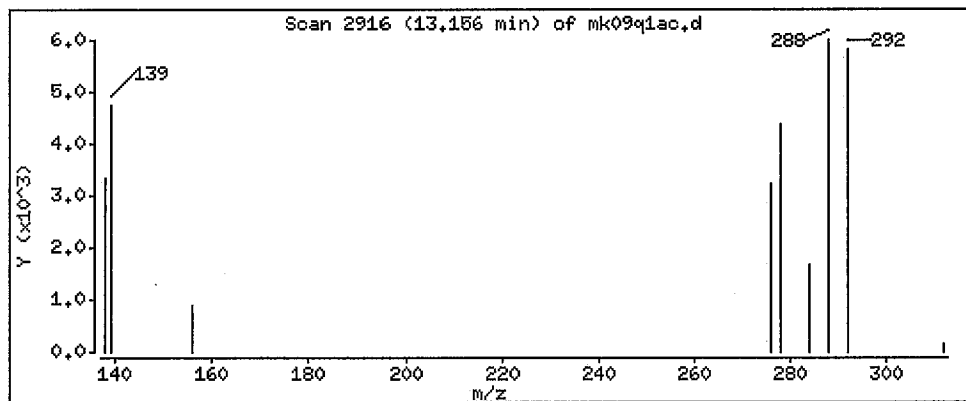
Operator: 11211

Column phase: Variant: 5MS

Column diameter: 0.25

89 Dibenz(a,h)anthracene

Concentration: 9.11 ng/sample



Data File: /var/chem/gcms/mp.i/P072911.b/mk09q1ac.d

Date : 29-JUL-2011 16:19

Client ID: EXM-SRU-M0010-R2-C0

Instrument: mp.i

Sample Info: ,,0,,

Purge Volume: 1.0

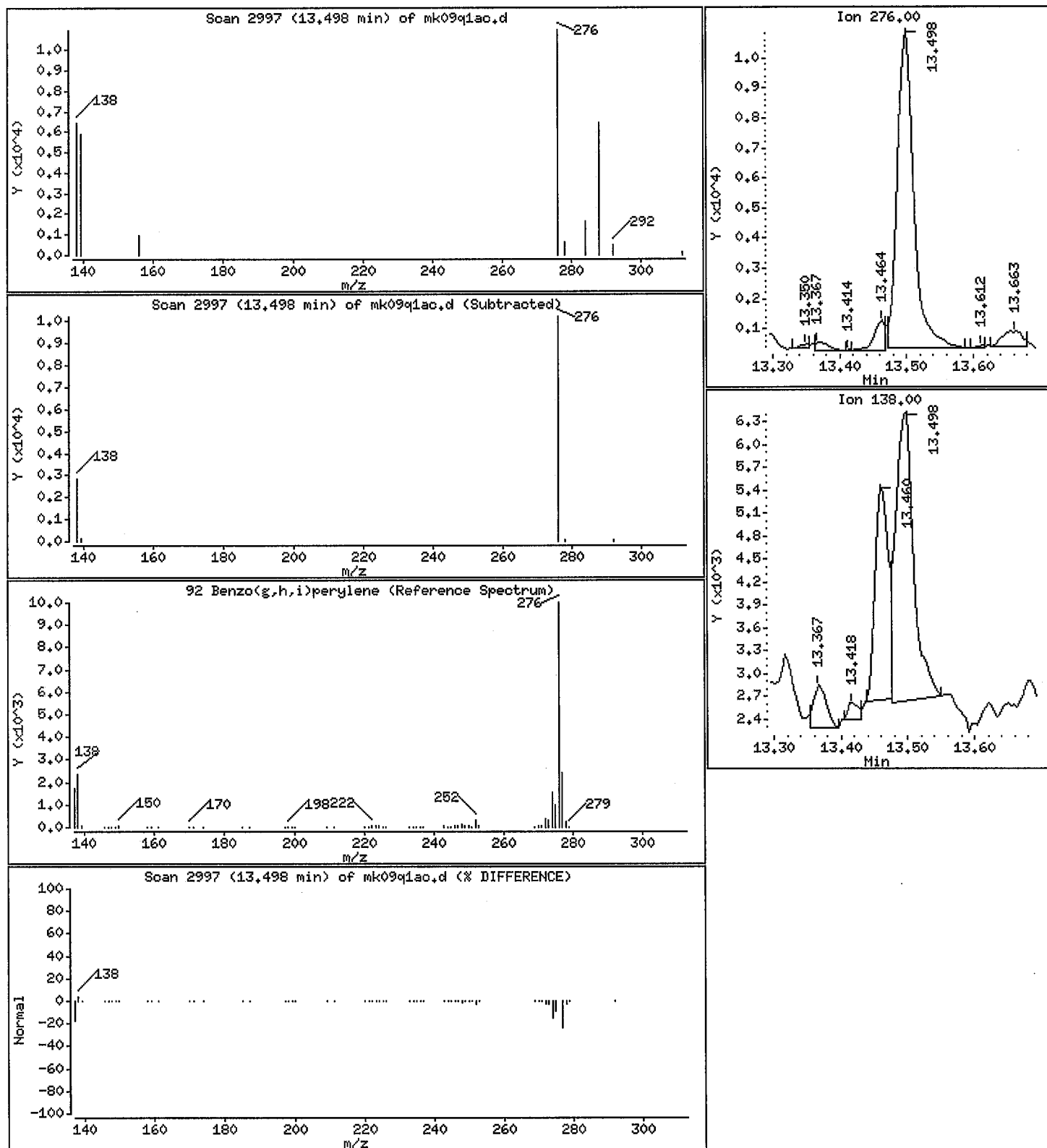
Operator: 11211

Column phase: Varian: 5MS

Column diameter: 0,25

92 Benzo(g,h,i)perylene

Concentration: 21.3 ng/sample



EM-BTRF-001107

TRC Environmental Corporation

Client Sample ID: EXM-SRU-M0010-R2-COMBINED

GC/MS Semivolatiles

Lot-Sample #...: H1G190403-002 Work Order #...: MK09Q2AC Matrix.....: AIR
 Date Sampled...: 07/08/11 Date Received...: 07/19/2011
 Prep Date.....: 07/20/11 Analysis Date...: 08/03/2011
 Prep Batch #...: 1201079
 Dilution Factor: 10 Method.....: KNOX ID-0016

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Chrysene	18000 D,CI	100	ng/sample	25
Naphthalene	14000 D	4000	ng/sample	2500
Phenanthrene	9100 D	300	ng/sample	240
Internal Standard		PERCENT RECOVERY	RECOVERY LIMITS	
Naphthalene-d8	86		(30 - 120)	
Phenanthrene-d10	88		(30 - 120)	
Chrysene-d12	88		(30 - 120)	

NOTE(S) :

CI See narrative.

D Result was obtained from the analysis of a dilution.

Data File: /var/chem/gcms/mp.i/P080311.b/mk09q2ac.d

Report Date: 05-Aug-2011 10:43

TestAmerica Knoxville

SEMIVOLATILE QUANTITATION REPORT

Data file : /var/chem/gcms/mp.i/P080311.b/mk09q2ac.d

Lab Smp Id: MK09Q2AC

Inj Date : 03-AUG-2011 14:19

Operator : 11211

Inst ID: mp.i

Smp Info : MK09Q2AC,,0,,D1:5

Misc Info : P080311,SIMPAH3

Comment :

Method : /var/chem/gcms/mp.i/P080311.b/SIMPAH3.m

Meth Date : 05-Aug-2011 09:34 cochranj Quant Type: ISTD

Cal Date : 01-AUG-2011 15:19

Cal File: ph01ic07.d

Als bottle: 5

Dil Factor: 1.00000

Integrator: HP RTE

Compound Sublist: pah.sub

Target Version: 3.50

Processing Host: qmidhp01

Concentration Formula: Amt * DF * Sf*Vt/Vo * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Sf	2.00000	Split factor
Vt	500.00000	Volume of final extract (uL)
Vo	1.00000	Volume of sample extracted (sample)

Cpnd Variable

Local Compound Variable

(25)

CONCENTRATIONS

Compounds	QUANT SIG	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN	FINAL
							(ug/ml)	(ng/sample)
* 1 Naphthalene-d8	136	4.869	4.869	(1.000)	128549	0.50000	0.500	
\$ 2 Naphthalene-d8 (SS)	136	4.869	4.869	(0.769)	128549	0.42936	429	
3 Naphthalene	128	4.884	4.887	(1.003)	3133762	14.5405	14500 E	
\$ 222 13C6-Naphthalene	134	4.869	4.887	(1.000)	11063	0.04658	46.6 (R)	
* 10 2-Methylnaphthalene-d10	152	5.427	5.427	(1.000)	74422	0.50000	0.500	
\$ 11 2-Methylnaphthalene-d10 (SS)	152	5.427	5.427	(0.858)	74422	0.45732	457	
12 2-Methylnaphthalene	142	5.454	5.454	(1.005)	128738	0.86297	863	
* 13 1-Methylnaphthalene-d10	152	5.507	5.510	(1.000)	72491	0.50000	0.500	
\$ 14 1-Methylnaphthalene-d10 (SS)	152	5.507	5.510	(0.870)	72491	0.44774	448	
15 1-Methylnaphthalene	142	5.536	5.536	(1.005)	62043	0.44143	441	
16 Biphenyl	154	5.837	5.840	(1.076)	2009604	11.3112	11300 F	
* 17 2,6-Dimethylnaphthalene-d12	168	5.940	5.937	(1.000)	69071	0.50000	0.500	
\$ 18 2,6-Dimethylnaph-d12 (SS)	168	5.940	5.937	(0.939)	69071	0.49533	495	
19 2,6 Dimethylnaphthalene	156	5.979	5.974	(1.007)	20528	0.14952	150	

Data File: /var/chem/gcms/mp.i/P080311.b/mk09q2ac.d
Report Date: 05-Aug-2011 10:43

Compounds	QUANT SIG						CONCENTRATIONS	
	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN	FINAL	
						(ug/ml)	(ng/sample)	
=====	=====	==	=====	=====	=====	=====	=====	
* 20 Acenaphthylene-d8	160	6.196	6.196	(1.000)	110405	0.50000	0.500	
\$ 21 Acenaphthylene-d8 (SS)	160	6.196	6.196	(0.979)	110405	0.47018	470	
22 Acenaphthylene	152	6.211	6.208	(1.002)	3929	0.01798	18.0	
* 23 Acenaphthene-d10	164	6.327	6.327	(1.000)	64606	0.50000	0.500	
24 Acenaphthene	154	6.356	6.353	(1.026)	36894	0.28662	287	
25 2,3,5 Trimethylnaphthalene	170	6.674	6.674	(1.124)	9276	0.07945	79.4	
\$ 26 Fluorene-d10	176	6.763	6.763	(0.892)	127351	1.05156	1050	
27 Fluorene	166	6.786	6.788	(0.895)	325565	2.09176	2090	
\$ 28 13C6-Fluorene	171	6.786	6.786	(0.895)	132069	0.98332	983	
* 34 Dibenzothiophene-d8	192	7.478	7.478	(1.000)	119289	0.50000	0.500	
\$ 35 Dibenzothiophene-d8 (SS)	192	7.478	7.478	(0.841)	119289	0.47008	470	
36 Dibenzothiophene	184	7.493	7.495	(1.002)	1663018	7.33118	7330 E	
* 41 Phenanthrene-d10	188	7.582	7.582	(1.000)	101267	0.50000	0.500	
\$ 42 Phenanthrene-d10 (SS)	188	7.582	7.582	(0.853)	101267	0.44148	441	
43 Phenanthrene	178	7.601	7.603	(1.002)	2014065	9.12409	9120 E	
* 44 Anthracene-d10	188	7.630	7.632	(1.000)	93281	0.50000	0.500	
\$ 45 Anthracene-d10 (SS)	188	7.630	7.632	(0.858)	93281	0.47108	471	
46 Anthracene	178	7.646	7.648	(1.002)	36074	0.15484	155	
\$ 47 13C6-Anthracene	184	7.646	7.646	(0.860)	83492	0.39980	400	
52 1-Methylphenanthrene	192	8.148	8.150	(1.075)	12670	0.09323	93.2	
* 53 Fluoranthene-d10	212	8.669	8.672	(1.000)	112884	0.50000	0.500	
\$ 54 Fluoranthene-d10 (SS)	212	8.669	8.672	(0.975)	112884	0.51624	516	
55 Fluoranthene	202	8.689	8.687	(1.002)	118219	0.47332	473	
* 56 Pyrene-d10	212	8.891	8.891	(1.000)	89120	0.50000	0.500	
57 Pyrene	202	8.925	8.908	(1.030)	1933021	7.32375	7320 E	
\$ 58 Terphenyl-d14	244	9.047	9.050	(1.044)	147676	1.31125	1310 (R)	
* 60 Benzo(a)anthracene-d12	240	10.103	10.108	(1.000)	74088	0.50000	0.500	
\$ 61 Benzo(a)anthracene-d12 (SS)	240	10.103	10.108	(1.136)	74088	0.65758	658 (R)	
62 Benzo(a)anthracene	228	10.099	10.129	(1.000)	438	0.00199	1.99	
* 63 Chrysene-d12	240	10.141	10.142	(1.000)	78469	0.50000	0.500	
\$ 64 Chrysene-d12 (SS)	240	10.141	10.142	(1.141)	78469	0.43971	440	
65 Chrysene	228	10.154	10.167	(1.001)	3122718	18.0928	18100 E	
* 70 Benzo(b)fluoranthene-d12	264	11.258	11.259	(1.000)	69890	0.50000	0.500	
\$ 71 Benzo(b)fluoranthene-d12 (SS)	264	11.258	11.259	(0.972)	69890	0.53755	538	
72 Benzo(b)fluoranthene	252	11.288	11.289	(1.003)	12237	0.06307	63.1	
* 73 Benzo(k)fluoranthene-d12	264	11.294	11.295	(1.000)	85114	0.50000	0.500	
\$ 74 Benzo(k)fluoranthene-d12 (SS)	264	11.294	11.295	(0.975)	85114	0.46795	468	
75 Benzo(k)fluoranthene	252	11.336	11.319	(1.004)	2627	0.01397	14.0 S/N	
* 76 Benzo(e)pyrene-d12	264	11.581	11.581	(1.000)	61045	0.50000	0.500	
77 Benzo(e)pyrene	252	11.611	11.611	(0.997)	20211	0.11811	118	
* 78 Benzo(a)pyrene-d12	264	11.647	11.647	(1.000)	66793	0.50000	0.500	
\$ 79 Benzo(a)pyrene-d12 (SS)	264	11.647	11.647	(1.006)	66793	0.49600	496	
80 Benzo(a)pyrene	252	11.677	11.671	(1.003)	3278	0.02226	22.3	
* 81 Perylene-d12	264	11.742	11.743	(1.000)	61351	0.50000	0.500	
\$ 82 Perylene-d12 (SS)	264	11.742	11.743	(1.014)	61351	0.47032	470	
83 Perylene	252	11.772	11.773	(1.003)	2326	0.01518	15.2	
* 84 Indeno(123-cd)pyrene-d12	288	13.118	13.118	(1.000)	75429	0.50000	0.500	

Data File: /var/chem/gcms/mp.i/P080311.b/mk09q2ac.d
 Report Date: 05-Aug-2011 10:43

Compounds	QUANT SIG						CONCENTRATIONS	
	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN	FINAL	
						(ug/ml)	(ng/sample)	
=====	=====	==	=====	=====	=====	=====	=====	
\$ 85 Indeno(123-cd)pyrene-d12(SS)	288	13.118	13.118	(1.133)	75429	0.51198	512	
86 Indeno(1,2,3-cd)pyrene	276	13.156	13.152	(1.003)	998	0.00561	5.61	
* 87 Dibenz(ah)anthracene-d14	292	13.122	13.123	(1.000)	55378	0.50000	0.500	
\$ 88 Dibenz(ah)anthracene-d14(SS)	292	13.122	13.123	(1.133)	55378	0.49768	498	
89 Dibenz(a,h)anthracene	278	13.165	13.169	(1.003)	1254	0.00945	9.45	
* 90 Benzo(ghi)perylene-d12	288	13.473	13.469	(1.000)	52980	0.50000	0.500	
\$ 91 Benzo(ghi)perylene-d12(SS)	288	13.473	13.469	(1.163)	52980	0.48051	481	
92 Benzo(g,h,i)perylene	276	13.506	13.502	(1.002)	2994	0.02081	20.8	

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

Data File: /var/chem/gcms/mp.i/P080311.b/mk09q2ac.d
 Report Date: 05-Aug-2011 11:04

TestAmerica Knoxville

SEMIVOLATILE QUANTITATION REPORT

Data file : /var/chem/gcms/mp.i/P080311.b/mk09q2ac.d
 Lab Smp Id: MK09Q2AC
 Inj Date : 03-AUG-2011 14:19
 Operator : 11211 Inst ID: mp.i
 Smp Info : MK09Q2AC,,0,,D1:5
 Misc Info : P080311,SIMPAH3
 Comment :
 Method : /var/chem/gcms/mp.i/P080311.b/SIMPAH3.m
 Meth Date : 05-Aug-2011 09:34 cochranj Quant Type: ISTD
 Cal Date : 01-AUG-2011 15:19 Cal File: ph01ic07.d
 Als bottle: 5
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: pah.sub
 Target Version: 3.50
 Processing Host: qmidhp01

Concentration Formula: Amt * DF * Sf*Vt/Vo * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Sf	2.00000	Split factor
Vt	500.00000	Volume of final extract (uL)
Vo	1.00000	Volume of sample extracted (sample)

*5x bench dil
7/14/11 8:11*

Cpnd Variable

Local Compound Variable

						CONCENTRATIONS		
QUANT SIG						ON-COLUMN	FINAL	
Compounds		MASS	RT	EXP RT	REL RT	RESPONSE	(ug/ml)	(ng/sample)
=====		====	==	=====	=====	=====	=====	=====
*	1 Naphthalene-d8	136	4.869	4.869	(1.000)	128549	0.50000	0.500
\$	2 Naphthalene-d8 (SS)	136	4.869	4.869	(0.769)	128549	0.42936	429
	3 Naphthalene	128	4.884	4.887	(1.003)	3133762	14.5405	14500 57
*	10 2-Methylnaphthalene-d10	152	5.427	5.427	(1.000)	74422	0.50000	0.500
\$	11 2-Methylnaphthalene-d10 (SS)	152	5.427	5.427	(0.858)	74422	0.45732	457
	12 2-Methylnaphthalene	142	5.454	5.454	(1.005)	128738	0.86297	863
*	13 1-Methylnaphthalene-d10	152	5.507	5.510	(1.000)	72491	0.50000	0.500
\$	14 1-Methylnaphthalene-d10 (SS)	152	5.507	5.510	(0.870)	72491	0.44774	448
	15 1-Methylnaphthalene	142	5.536	5.536	(1.005)	62043	0.44143	441
	16 Biphenyl	154	5.837	5.840	(1.076)	2009604	11.3112	11300
*	17 2,6-Dimethylnaphthalene-d12	168	5.940	5.937	(1.000)	69071	0.50000	0.500
\$	18 2,6-Dimethylnaph-d12 (SS)	168	5.940	5.937	(0.939)	69071	0.49533	495
	19 2,6 Dimethylnaphthalene	156	5.979	5.974	(1.007)	20528	0.14952	150
*	20 Acenaphthylene-d8	160	6.196	6.196	(1.000)	110405	0.50000	0.500

Missell

Data File: /var/chem/gcms/mp.i/P080311.b/mk09q2ac.d
Report Date: 05-Aug-2011 11:04

Compounds	QUANT SIG	CONCENTRATIONS						
		MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN	FINAL
							(ug/ml)	(ng/sample)
=====	=====	==	=====	=====	=====	=====	=====	
\$ 21 Acenaphthylene-d8 (SS)	160	6.196	6.196	(0.979)	110405	0.47018	470	
22 Acenaphthylene	152	6.211	6.208	(1.002)	3929	0.01798	18.0	
* 23 Acenaphthene-d10	164	6.327	6.327	(1.000)	64606	0.50000	0.500	
24 Acenaphthene	154	6.356	6.353	(1.026)	36894	0.28662	287	
25 2,3,5 Trimethylnaphthalene	170	6.674	6.674	(1.124)	9276	0.07945	79.4	
\$ 26 Fluorene-d10	176	6.763	6.763	(0.892)	127351	1.05156	1050	
27 Fluorene	166	6.786	6.788	(0.895)	325565	2.09176	2090	
\$ 28 13C6-Fluorene	171	6.786	6.786	(0.895)	132069	0.98332	983	
* 34 Dibenzothiophene-d8	192	7.478	7.478	(1.000)	119289	0.50000	0.500	
\$ 35 Dibenzothiophene-d8 (SS)	192	7.478	7.478	(0.841)	119289	0.47008	470	
36 Dibenzothiophene	184	7.493	7.495	(1.002)	1663018	7.33118	7330	
* 41 Phenanthrene-d10	188	7.582	7.582	(1.000)	101267	0.50000	0.500	
\$ 42 Phenanthrene-d10 (SS)	188	7.582	7.582	(0.853)	101267	0.44148	441	
43 Phenanthrene	178	7.601	7.603	(1.002)	2014065	9.12409	9120	
* 44 Anthracene-d10	188	7.630	7.632	(1.000)	93281	0.50000	0.500	
\$ 45 Anthracene-d10 (SS)	188	7.630	7.632	(0.858)	93281	0.47108	471	
46 Anthracene	178	7.646	7.648	(1.002)	36074	0.15484	155	
\$ 47 13C6-Anthracene	184	7.646	7.646	(0.860)	83492	0.39980	400	
52 1-Methylphenanthrene	192	8.148	8.150	(1.075)	12670	0.09323	93.2	
* 53 Fluoranthene-d10	212	8.669	8.672	(1.000)	112884	0.50000	0.500	
\$ 54 Fluoranthene-d10 (SS)	212	8.669	8.672	(0.975)	112884	0.51624	516	
55 Fluoranthene	202	8.689	8.687	(1.002)	118219	0.47332	473	
* 56 Pyrene-d10	212	8.891	8.891	(1.000)	89120	0.50000	0.500	
57 Pyrene	202	8.925	8.908	(1.030)	1933021	7.32375	7320	
\$ 58 Terphenyl-d14	244	9.047	9.050	(1.044)	147676	1.31125	1310 (R)	
* 60 Benzo (a) anthracene-d12	240	10.103	10.108	(1.000)	74088	0.50000	0.500	
\$ 61 Benzo (a) anthracene-d12 (SS)	240	10.103	10.108	(1.136)	74088	0.65758	658 (R)	
* 63 Chrysene-d12	240	10.141	10.142	(1.000)	78469	0.50000	0.500	
\$ 64 Chrysene-d12 (SS)	240	10.141	10.142	(1.141)	78469	0.43971	440	
65 Chrysene	228	10.154	10.167	(1.001)	3122718	18.0928	18100	
* 70 Benzo (b) fluoranthene-d12	264	11.258	11.259	(1.000)	69890	0.50000	0.500	
\$ 71 Benzo (b) fluoranthene-d12 (SS)	264	11.258	11.259	(0.972)	69890	0.53755	538	
72 Benzo (b) fluoranthene	252	11.288	11.289	(1.003)	12237	0.06307	63.1	
* 73 Benzo (k) fluoranthene-d12	264	11.294	11.295	(1.000)	85114	0.50000	0.500	
\$ 74 Benzo (k) fluoranthene-d12 (SS)	264	11.294	11.295	(0.975)	85114	0.46795	468	
75 Benzo (k) fluoranthene	252	11.312	11.319	(1.002)	1289	0.00686	6.86 (M)	
* 76 Benzo (e) pyrene-d12	264	11.581	11.581	(1.000)	61045	0.50000	0.500	
77 Benzo (e) pyrene	252	11.611	11.611	(0.997)	20211	0.11811	118	
* 78 Benzo (a) pyrene-d12	264	11.647	11.647	(1.000)	66793	0.50000	0.500	
\$ 79 Benzo (a) pyrene-d12 (SS)	264	11.647	11.647	(1.006)	66793	0.49600	496	
80 Benzo (a) pyrene	252	11.677	11.671	(1.003)	3278	0.02226	22.3	
* 81 Perylene-d12	264	11.742	11.743	(1.000)	61351	0.50000	0.500	
\$ 82 Perylene-d12 (SS)	264	11.742	11.743	(1.014)	61351	0.47032	470	
83 Perylene	252	11.772	11.773	(1.003)	2326	0.01518	15.2	
* 84 Indeno (123-cd) pyrene-d12	288	13.118	13.118	(1.000)	75429	0.50000	0.500	
\$ 85 Indeno (123-cd) pyrene-d12 (SS)	288	13.118	13.118	(1.133)	75429	0.51198	512	
86 Indeno (1,2,3-cd) pyrene	276	13.156	13.152	(1.003)	998	0.00561	5.61	

Data File: /var/chem/gcms/mp.i/P080311.b/mk09q2ac.d
 Report Date: 05-Aug-2011 11:04

Compounds	QUANT SIG						CONCENTRATIONS	
	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN	FINAL	
						(ug/ml)	(ng/sample)	
=====	=====	==	=====	=====	=====	=====	=====	
* 87 Dibenz (ah) anthracene-d14	292	13.122	13.123	(1.000)	55378	0.50000	0.500	
\$ 88 Dibenz (ah) anthracene-d14 (SS)	292	13.122	13.123	(1.133)	55378	0.49768	498	
89 Dibenz (a,h) anthracene	278	13.165	13.169	(1.003)	1254	0.00945	9.45	
* 90 Benzo (ghi) perylene-d12	288	13.473	13.469	(1.000)	52980	0.50000	0.500	
\$ 91 Benzo (ghi) perylene-d12 (SS)	288	13.473	13.469	(1.163)	52980	0.48051	481	
92 Benzo (g,h,i) perylene	276	13.506	13.502	(1.002)	2994	0.02081	20.8	

QC Flag Legend

R - Spike/Surrogate failed recovery limits.
 M - Compound response manually integrated.

Data File: /var/chem/gcms/mp.i/P080311.b/mk09q2ac.d
 Report Date: 05-Aug-2011 10:43

TestAmerica Knoxville

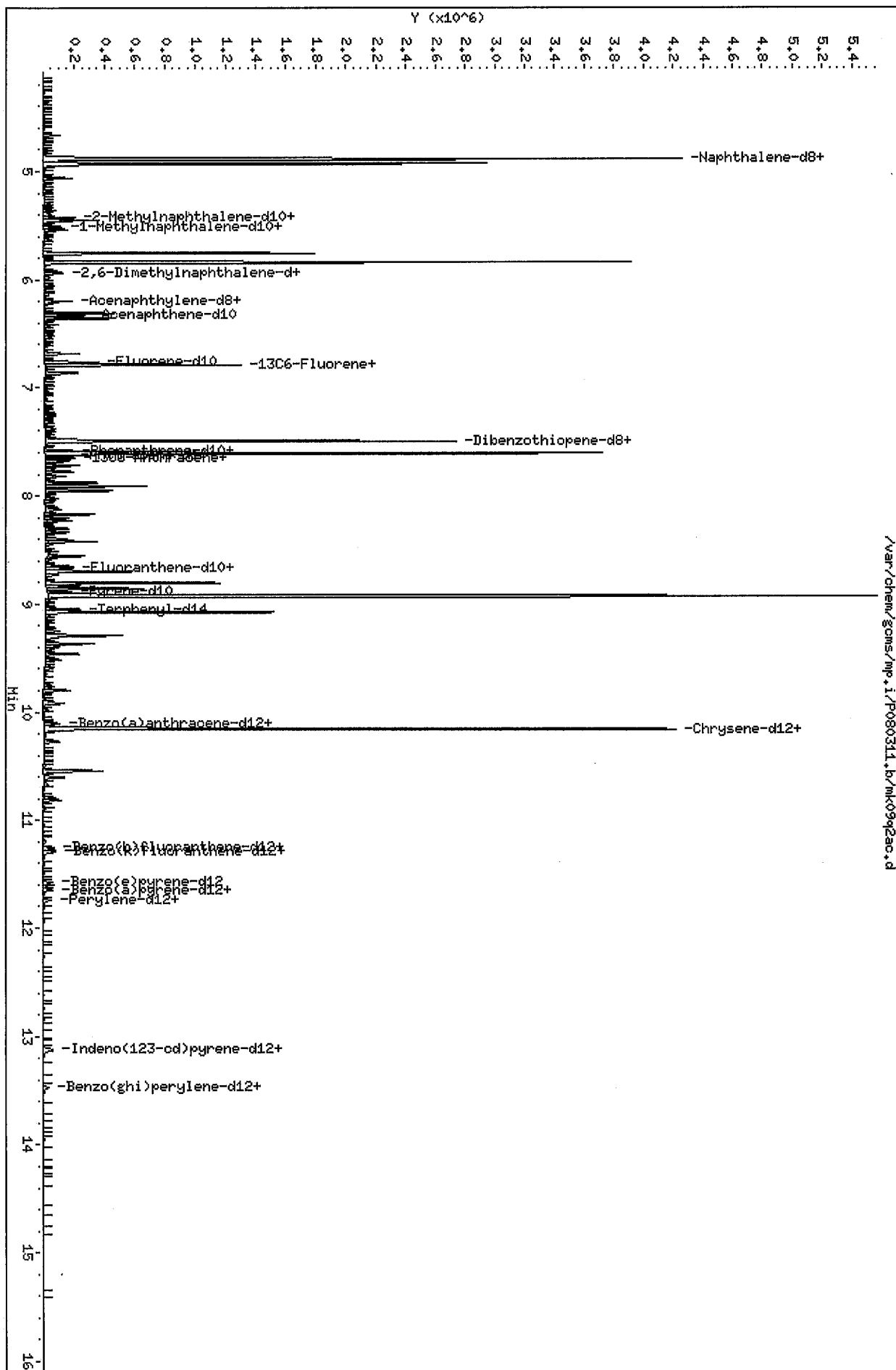
RECOVERY REPORT

Client Name: ITSBUR Client SDG: P080311
 Sample Matrix: GAS Fraction: SV
 Lab Smp Id: MK09Q2AC
 Level: LOW Operator: 11211
 Data Type: MS DATA SampleType: SAMPLE
 SpikeList File: icv.spk Quant Type: ISTD
 Sublist File: pah.sub
 Method File: /var/chem/gcms/mp.i/P080311.b/SIMPAH3.m
 Misc Info: P080311,SIMPAH3

SURROGATE COMPOUND	CONC ADDED ng/sample	CONC RECOVERED ng/sample	% RECOVERED	LIMITS
\$ 2 Naphthalene-d8 (SS)	500	429	85.87	30-120
\$ 222 13C6-Naphthalene	500	46.6	9.32*	50-150
\$ 11 2-Methylnaphthalen	500	457	91.46	30-120
\$ 14 1-Methylnaphthalen	500	448	89.55	30-120
\$ 18 2,6-Dimethylnaph-d	500	495	99.07	30-120
\$ 21 Acenaphthylene-d8 (	500	470	94.04	30-120
\$ 26 Fluorene-d10	1000	1050	105.16	30-120
\$ 28 13C6-Fluorene	1000	983	98.33	30-120
\$ 35 Dibenzothiopene-d8	500	470	94.02	30-120
\$ 42 Phenanthrene-d10 (S	500	441	88.30	30-120
\$ 45 Anthracene-d10 (SS)	500	471	94.22	30-120
\$ 47 13C6-Anthracene	500	400	79.96	30-120
\$ 54 Fluoranthene-d10 (S	500	516	103.25	0-120
\$ 58 Terphenyl-d14	1000	1310	131.12*	30-120
\$ 61 Benzo (a) anthracene	500	658	131.52*	30-120
\$ 64 Chrysene-d12 (SS)	500	440	87.94	30-120
\$ 71 Benzo (b) fluoranthe	500	538	107.51	30-120
\$ 74 Benzo (k) fluoranthe	500	468	93.59	30-120
\$ 79 Benzo (a) pyrene-d12	500	496	99.20	30-120
\$ 82 Perylene-d12 (SS)	500	470	94.06	30-120
\$ 85 Indeno (123-cd) pyre	500	512	102.40	30-120
\$ 88 Dibenz (ah) anthrace	500	498	99.54	30-120
\$ 91 Benzo (ghi) perylene	500	481	96.10	30-120

Data File: /var/chem/gcms/mp.i/P080311.b/mk09q2ac.d
 Date: 03-AUG-2011 14:19
 Client ID:
 Sample Info: MK09Q2AC,0,DI:5
 Purge Volume: 1.0
 Column phase: Varian; SHS

Instrument: mp.i
 Operator: 11211
 Column diameter: 0.25



Data File: /var/chem/gcms/mp.i/P080311.b/mk09q2ao.d

Date : 03-AUG-2011 14:19

Client ID:

Instrument: mp.i

Sample Info: MK09Q2AC,,0,,D1:5

Purge Volume: 1.0

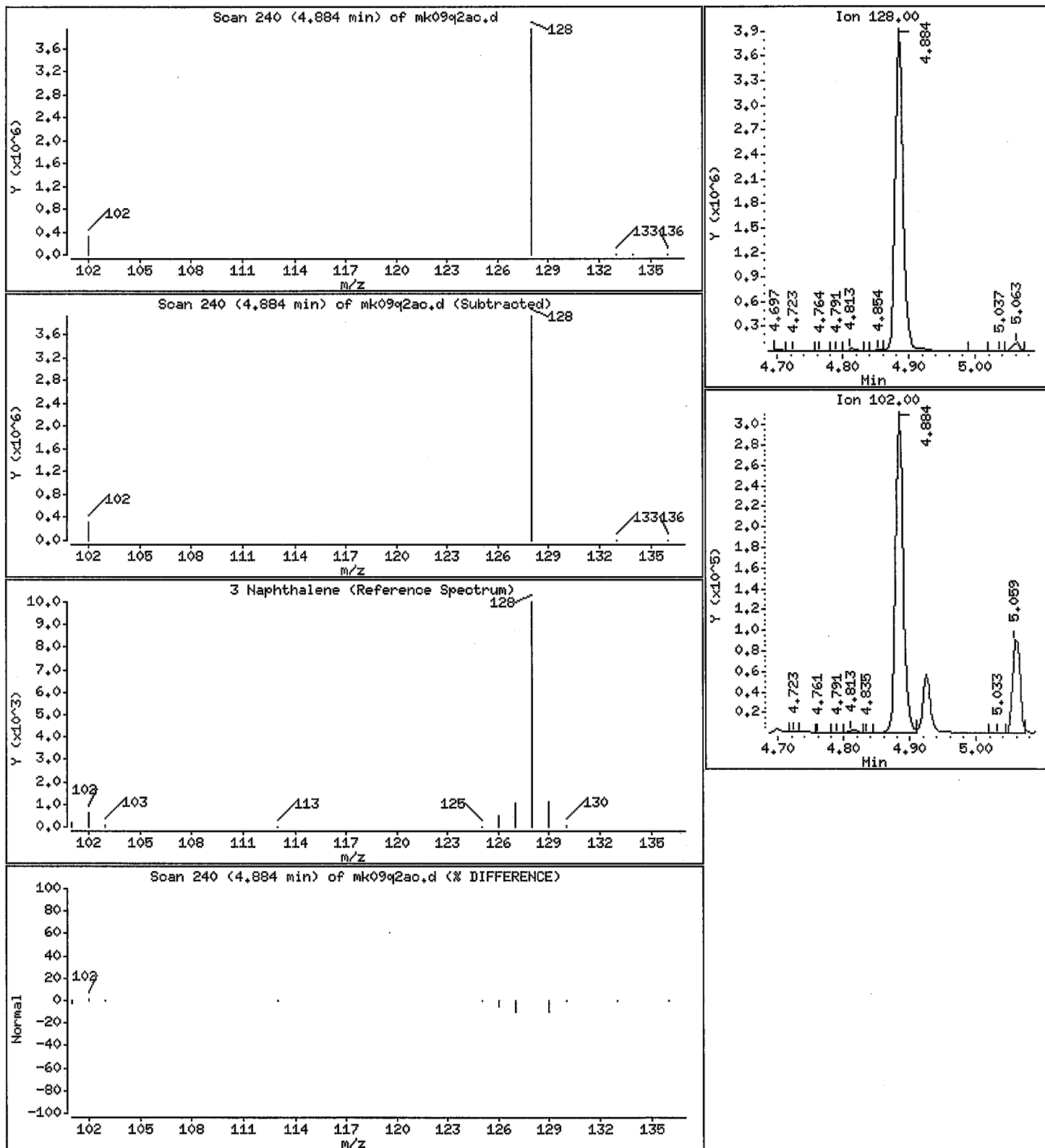
Operator: 11211

Column phase: Varian: 5MS

Column diameter: 0.25

3 Naphthalene

Concentration: 14500 ng/sample



EM-BTRF-001117

Data File: /var/chem/gcms/mp.i/P080311.b/mk09q2ao.d

Date : 03-AUG-2011 14:19

Client ID:

Instrument: mp.i

Sample Info: MK09Q2AC,,0,,D1:5

Purge Volume: 1.0

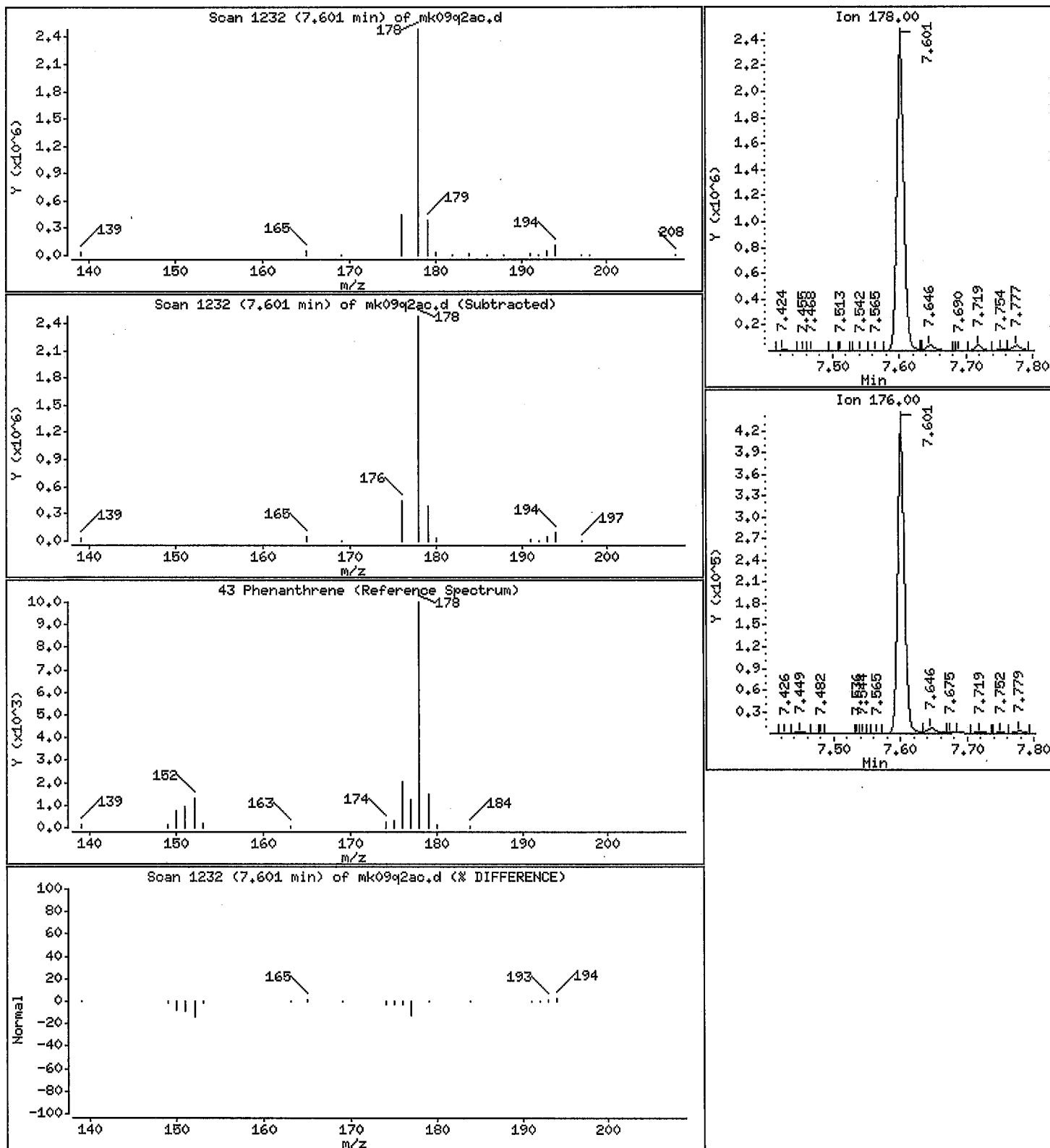
Operator: 11211

Column phase: Varian: 5MS

Column diameter: 0.25

43 Phenanthrene

Concentration: 9120 ng/sample



EM-BTRF-001118

Data File: /var/chem/gcms/mp.i/P080311.b/mk09q2ao.d

Date : 03-AUG-2011 14:19

Client ID:

Instrument: mp.i

Sample Info: MK09Q2AC,,0,,D1:5

Purge Volume: 1.0

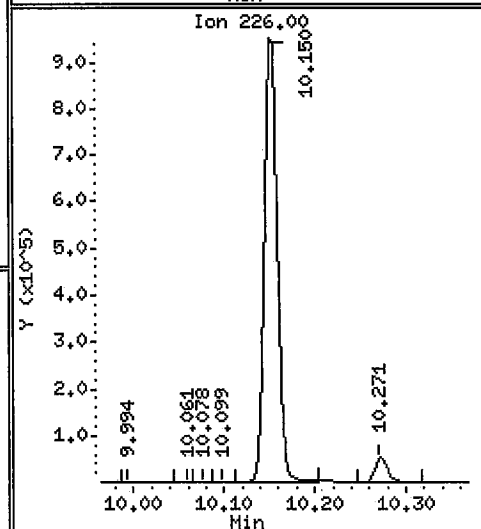
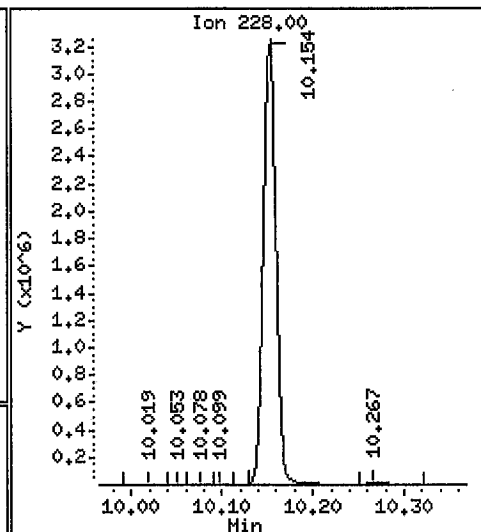
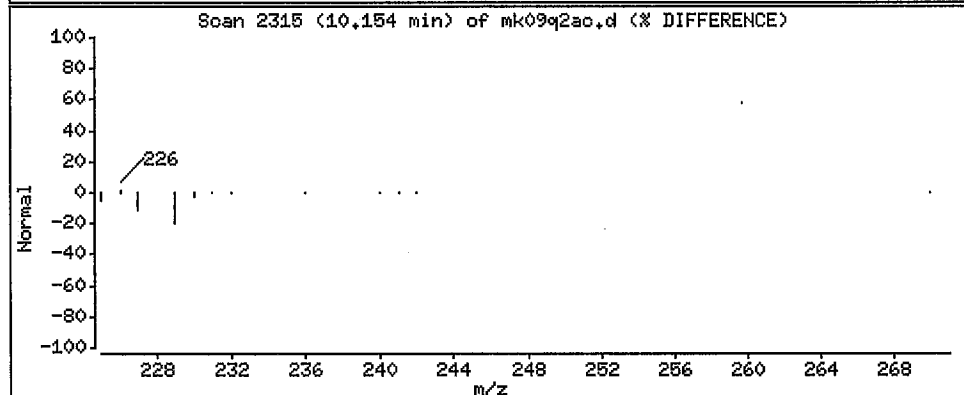
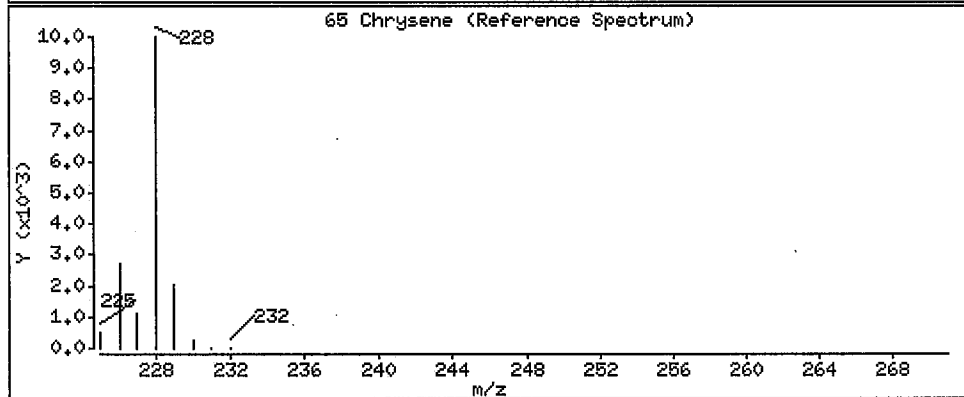
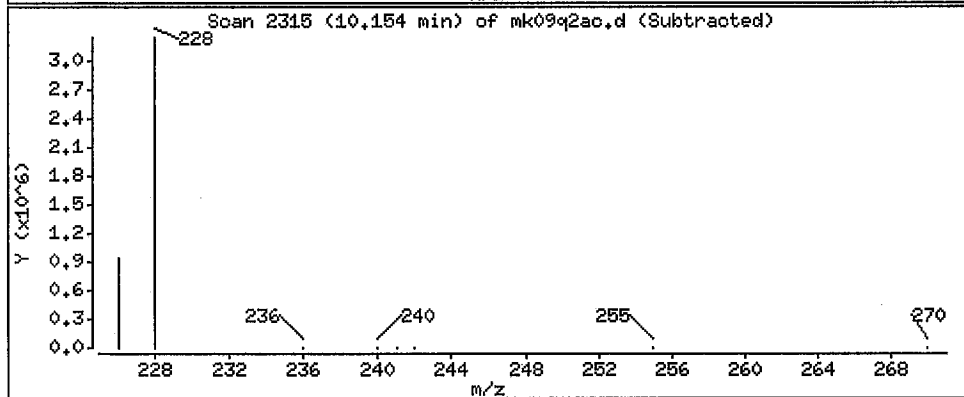
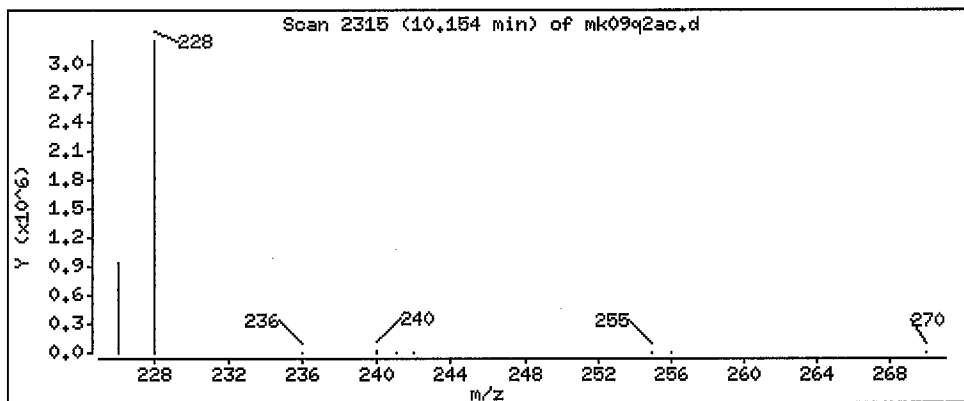
Operator: 11211

Column phase: Varian: 5MS

Column diameter: 0.25

65 Chrysene

Concentration: 18100 ng/sample



TRC Environmental Corporation

Client Sample ID: EXM-SRU-M0010-R3-COMBINED

GC/MS Semivolatiles

Lot-Sample #...: H1G190403-003 Work Order #...: MK09R1AC Matrix.....: AIR
 Date Sampled...: 07/08/11 Date Received...: 07/19/2011
 Prep Date.....: 07/20/11 Analysis Date...: 07/29/2011
 Prep Batch #...: 1201079
 Dilution Factor: 2 Method.....: KNOX ID-0016

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Acenaphthene	260	40	ng/sample	9.8
Acenaphthylene	18 J	40	ng/sample	4.8
Anthracene	180	20	ng/sample	7.6
Benzo(a)anthracene	ND	20	ng/sample	7.6
Benzo(b)fluoranthene	72 J	200	ng/sample	60
Benzo(k)fluoranthene	ND	200	ng/sample	86
Benzo(ghi)perylene	25	20	ng/sample	10
Benzo(a)pyrene	34	20	ng/sample	5.8
Benzo(e)pyrene	140	20	ng/sample	11
Chrysene	16000 E,CI	20	ng/sample	5.0
Dibenz(a,h)anthracene	15 J	20	ng/sample	7.8
Fluoranthene	620	20	ng/sample	13
Fluorene	2300	20	ng/sample	8.2
Indeno(1,2,3-cd)pyrene	12 J	20	ng/sample	5.2
2-Methylnaphthalene	1000	100	ng/sample	42
Naphthalene	15000 E	800	ng/sample	500
Perylene	22	20	ng/sample	6.2
Phenanthrene	8600 E	60	ng/sample	48
Pyrene	5200 E,CI	120	ng/sample	72

Internal Standard	PERCENT RECOVERY	RECOVERY LIMITS
Fluorene d-10	112	(50 - 150)
Terphenyl-d14	147	(50 - 150)
13C6-Fluorene	100	(50 - 150)
Anthracene-d10	96	(30 - 120)
Naphthalene-d8	58	(30 - 120)
2-Methylnaphthalene-d10	85	(30 - 120)
1-Methylnaphthalene-d10	79	(30 - 120)
Acenaphthylene-d8	111	(30 - 120)
Phenanthrene-d10	80	(30 - 120)
2,6-Dimethylnaphthalene-d12	97	(30 - 120)
Fluoranthene-d10	94	(30 - 120)
Benzo(a)anthracene-d12	145 *	(30 - 120)
Chrysene-d12	77	(30 - 120)
Benzo(b)fluoranthene-d12	114	(30 - 120)
Benzo(k)fluoranthene-d12	75	(30 - 120)
Benzo(a)pyrene-d12	107	(30 - 120)
Perylene-d12	95	(30 - 120)
Indeno(1,2,3-cd)pyrene-d12	100	(30 - 120)
Dibenz(ah)anthracene-d14	98	(30 - 120)
Benzo(ghi)perylene-d12	91	(30 - 120)

TRC Environmental Corporation

Client Sample ID: EXM-SRU-M0010-R3-COMBINED

GC/MS Semivolatiles

Lot-Sample #...: H1G190403-003 Work Order #...: MK09R1AC Matrix.....: AIR

NOTE(S) :

1 13C6-Anthracene = 87 %

* Surrogate recovery is outside stated control limits.

CI See narrative.

E Estimated result. Result concentration exceeds the calibration range.

J Estimated result. Result is less than RL.

Data File: /var/chem/gcms/mp.i/P072911.b/mk09r1ac.d

Report Date: 04-Aug-2011 16:26

TestAmerica Knoxville

SEMIVOLATILE QUANTITATION REPORT

Data file : /var/chem/gcms/mp.i/P072911.b/mk09r1ac.d

Lab Smp Id: MK09R1AC

Client Smp ID: EXM-SRU-M0010-R3-CO

Inj Date : 29-JUL-2011 16:43

Operator : 60487 11/21/

Inst ID: mp.i

Smp Info : , , 0 , , , 11/21/

Misc Info : P072911, SIMPAH3

Comment :

Method : /var/chem/gcms/mp.i/P072911.b/SIMPAH3.m

Meth Date : 29-Jul-2011 11:36 chemist

Quant Type: ISTD

Cal Date : 26-JUL-2011 20:15

Cal File: pg26ic07.d

Als bottle: 15

Dil Factor: 1.00000

Integrator: HP RTE

Compound Sublist: pah.sub

Target Version: 3.50

Processing Host: qmidhp01

Concentration Formula: Amt * DF * Sf * Vt / Vo * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Sf	2.00000	Split factor
Vt	500.00000	Volume of final extract (uL)
Vo	1.00000	Volume of sample extracted (sample)

Cpnd Variable

Local Compound Variable

Compounds	QUANT SIG	CONCENTRATIONS					
		MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/ml) FINAL (ng/sample)
* 1 Naphthalene-d8	136	4.872	4.865	(1.000)	388813	0.50000	0.500
\$ 2 Naphthalene-d8 (SS)	136	4.872	4.865	(0.770)	388813	0.29188	146
3 Naphthalene	128	4.913	4.880	(1.008)	131576	0.19940	99.7 S/SURE
\$ 222 13C6-Naphthalene	134	4.891	4.880	(1.004)	3450	0.00483	2.42 (R)
* 10 2-Methylnaphthalene-d10	152	5.427	5.424	(1.000)	306673	0.50000	0.500
\$ 11 2-Methylnaphthalene-d10 (SS)	152	5.427	5.424	(0.858)	306673	0.42665	213
12 2-Methylnaphthalene	142	5.454	5.450	(1.005)	628568	1.01740	509
* 13 1-Methylnaphthalene-d10	152	5.507	5.503	(1.000)	283803	0.50000	0.500
\$ 14 1-Methylnaphthalene-d10 (SS)	152	5.507	5.503	(0.871)	283803	0.39722	199
15 1-Methylnaphthalene	142	5.536	5.533	(1.005)	293105	0.53230	266
16 Biphenyl	154	5.813	5.835	(1.071)	1144	0.00156	0.780 S/SURE
* 17 2,6-Dimethylnaphthalene-d12	168	5.937	5.933	(1.000)	297282	0.50000	0.500
\$ 18 2,6-Dimethylnaph-d12 (SS)	168	5.937	5.933	(0.939)	297282	0.48484	242
19 2,6 Dimethylnaphthalene	156	5.976	5.969	(1.007)	97765	0.16501	82.5

Data File: /var/chem/gcms/mp.i/P072911.b/mk09rlac.d
Report Date: 04-Aug-2011 16:26

Compounds	QUANT SIG						CONCENTRATIONS	
	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN	FINAL	
						(ug/ml)	(ng/sample)	
=====	=====	==	=====	=====	=====	=====	=====	
* 20 Acenaphthylene-d8	160	6.193	6.194	(1.000)	556877	0.50000	0.500	
\$ 21 Acenaphthylene-d8 (SS)	160	6.193	6.194	(0.979)	556877	0.55567	278	
22 Acenaphthylene	152	6.205	6.202	(1.002)	20648	0.01839	9.20	
* 23 Acenaphthene-d10	164	6.325	6.325	(1.000)	283243	0.50000	0.500	
24 Acenaphthene	154	6.353	6.350	(1.026)	173176	0.25826	129	
25 2,3,5 Trimethylnaphthalene	170	6.671	6.669	(1.124)	43326	0.08767	43.8	
\$ 26 Fluorene-d10	176	6.761	6.758	(0.892)	586766	1.11702	559 (R)	
27 Fluorene	166	6.786	6.783	(0.895)	1580547	2.32684	1160	
\$ 28 13C6-Fluorene	171	6.783	6.781	(0.895)	588750	1.00422	502 (R)	
* 34 Dibenzothiophene-d8	192	7.476	7.474	(1.000)	522228	0.50000	0.500	
\$ 35 Dibenzothiophene-d8 (SS)	192	7.476	7.474	(0.841)	522228	0.42392	212	
36 Dibenzothiophene	184	7.490	7.489	(1.002)	7460073	7.48896	3740	S/E
* 41 Phenanthrene-d10	188	7.580	7.578	(1.000)	443060	0.50000	0.500	
\$ 42 Phenanthrene-d10 (SS)	188	7.580	7.578	(0.853)	443060	0.39864	199	
43 Phenanthrene	178	7.563	7.597	(0.998)	6037	0.00621	3.10	S/SNR E
* 44 Anthracene-d10	188	7.627	7.626	(1.000)	451279	0.50000	0.500	
\$ 45 Anthracene-d10 (SS)	188	7.627	7.626	(0.858)	451279	0.48084	240	
46 Anthracene	178	7.644	7.642	(1.002)	212204	0.18274	91.4	
\$ 47 13C6-Anthracene	184	7.644	7.642	(0.860)	440359	0.43287	216	
52 1-Methylphenanthrene	192	8.145	8.143	(1.075)	72255	0.12366	61.8	
* 53 Fluoranthene-d10	212	8.667	8.665	(1.000)	484398	0.50000	0.500	
\$ 54 Fluoranthene-d10 (SS)	212	8.667	8.665	(0.975)	484398	0.46794	234	
55 Fluoranthene	202	8.687	8.683	(1.002)	669857	0.61460	307	
* 56 Pyrene-d10	212	8.889	8.885	(1.000)	421986	0.50000	0.500	
57 Pyrene	202	8.947	8.904	(1.032)	6019682	5.22272	2610	* E
\$ 58 Terphenyl-d14	244	9.051	9.043	(1.044)	729752	1.47034	735 (R)	
* 60 Benzo(a)anthracene-d12	240	10.103	10.100	(1.000)	373319	0.50000	0.500	
\$ 61 Benzo(a)anthracene-d12 (SS)	240	10.103	10.100	(1.137)	373319	0.72531	363 (R)	
62 Benzo(a)anthracene	228	10.099	10.121	(1.000)	2685	0.00225	1.12	
* 63 Chrysene-d12	240	10.141	10.133	(1.000)	345875	0.50000	0.500	
\$ 64 Chrysene-d12 (SS)	240	10.141	10.133	(1.141)	345875	0.38302	192	
65 Chrysene	228	10.154	10.163	(1.001)	11702723	15.4996	7750	S/E
* 70 Benzo(b)fluoranthene-d12	264	11.258	11.253	(1.000)	358853	0.50000	0.500	
\$ 71 Benzo(b)fluoranthene-d12 (SS)	264	11.258	11.253	(0.973)	358853	0.57022	285	
72 Benzo(b)fluoranthene	252	11.282	11.277	(1.002)	83554	0.07925	39.5	SME
* 73 Benzo(k)fluoranthene-d12	264	11.288	11.289	(1.000)	336661	0.50000	0.500	
\$ 74 Benzo(k)fluoranthene-d12 (SS)	264	11.288	11.289	(0.975)	336661	0.37483	187	
75 Benzo(k)fluoranthene	252	11.282	11.307	(0.999)	81404	0.11044	55.2	SME
* 76 Benzo(e)pyrene-d12	264	11.575	11.570	(1.000)	298423	0.50000	0.500	
77 Benzo(e)pyrene	252	11.605	11.600	(0.997)	128834	0.13772	68.9	
* 78 Benzo(a)pyrene-d12	264	11.641	11.635	(1.000)	344263	0.50000	0.500	
\$ 79 Benzo(a)pyrene-d12 (SS)	264	11.641	11.635	(1.006)	344129	0.53481	267	
80 Benzo(a)pyrene	252	11.671	11.665	(1.003)	26668	0.03413	17.1	
* 81 Perylene-d12	264	11.736	11.737	(1.000)	304548	0.50000	0.500	
\$ 82 Perylene-d12 (SS)	264	11.736	11.737	(1.014)	304548	0.47455	237	
83 Perylene	252	11.766	11.761	(1.003)	16991	0.02214	11.1	
* 84 Indeno(123-cd)pyrene-d12	288	13.110	13.106	(1.000)	368735	0.50000	0.500	

Data File: /var/chem/gcms/mp.i/P072911.b/mk09r1ac.d
 Report Date: 04-Aug-2011 16:26

Compounds	QUANT SIG			CONCENTRATIONS			
	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/ml)	FINAL (ng/sample)
=====	=====	==	=====	=====	=====	=====	=====
\$ 85 Indeno (123-cd) pyrene-d12 (SS)	288	13.110	13.106	(1.133)	368735	0.50148	251
86 Indeno (1,2,3-cd) pyrene	276	13.148	13.140	(1.003)	11119	0.01246	6.23
* 87 Dibenz (ah) anthracene-d14	292	13.114	13.110	(1.000)	273543	0.50000	0.500
\$ 88 Dibenz (ah) anthracene-d14 (SS)	292	13.114	13.110	(1.133)	273543	0.48841	244
89 Dibenz (a,h) anthracene	278	13.152	13.157	(1.003)	10083	0.01501	7.50
* 90 Benzo (ghi) perylene-d12	288	13.464	13.460	(1.000)	251913	0.50000	0.500
\$ 91 Benzo (ghi) perylene-d12 (SS)	288	13.464	13.460	(1.163)	251925	0.45589	228
92 Benzo (g,h,i) perylene	276	13.498	13.494	(1.002)	17490	0.02508	12.5

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

2008-8-11

Data File: /var/chem/gcms/mp.i/P072911.b/mk09r1ac.d
 Report Date: 05-Aug-2011 13:32

TestAmerica Knoxville

SEMIVOLATILE QUANTITATION REPORT

Data file : /var/chem/gcms/mp.i/P072911.b/mk09r1ac.d
 Lab Smp Id: MK09R1AC Client Smp ID: EXM-SRU-M0010-R3-CO
 Inj Date : 29-JUL-2011 16:43
 Operator : 11211 Inst ID: mp.i
 Smp Info : , , 0 , , ,
 Misc Info : P072911, SIMPAH3
 Comment :
 Method : /var/chem/gcms/mp.i/P072911.b/SIMPAH3.m
 Meth Date : 04-Aug-2011 19:00 cochranj Quant Type: ISTD
 Cal Date : 26-JUL-2011 20:15 Cal File: pg26ic07.d
 Als bottle: 15
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: pah.sub
 Target Version: 3.50

Concentration Formula: Amt * DF * Sf * Vt / Vo * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Sf	2.00000	Split factor
Vt	500.00000	Volume of final extract (uL)
Vo	1.00000	Volume of sample extracted (sample)

Cpnd Variable

Local Compound Variable

Compounds	QUANT SIG	MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN (ug/ml)	FINAL (ng/sample)
* 1 Naphthalene-d8	=====	136	4.872	4.865	(1.000)	388813	0.50000	0.500
\$ 2 Naphthalene-d8 (SS)	=====	136	4.872	4.865	(0.770)	388813	0.29188	292
3 Naphthalene	=====	128	4.880	4.880	(1.002)	9678700	14.6680	14700 (M) E
* 10 2-Methylnaphthalene-d10	=====	152	5.427	5.424	(1.000)	306673	0.50000	0.500
\$ 11 2-Methylnaphthalene-d10 (SS)	=====	152	5.427	5.424	(0.858)	306673	0.42665	427
12 2-Methylnaphthalene	=====	142	5.454	5.450	(1.005)	628568	1.01740	1020 .
* 13 1-Methylnaphthalene-d10	=====	152	5.507	5.503	(1.000)	283803	0.50000	0.500
\$ 14 1-Methylnaphthalene-d10 (SS)	=====	152	5.507	5.503	(0.871)	283803	0.39722	397
15 1-Methylnaphthalene	=====	142	5.536	5.533	(1.005)	293105	0.53230	532 .
16 Biphenyl	=====	154	5.837	5.835	(1.076)	7596270	10.3528	10400 (M) E
* 17 2,6-Dimethylnaphthalene-d12	=====	168	5.937	5.933	(1.000)	297282	0.50000	0.500
\$ 18 2,6-Dimethylnaph-d12 (SS)	=====	168	5.937	5.933	(0.939)	297282	0.48484	485
19 2,6 Dimethylnaphthalene	=====	156	5.976	5.969	(1.007)	97765	0.16501	165 .
* 20 Acenaphthylene-d8	=====	160	6.193	6.194	(1.000)	556877	0.50000	0.500
\$ 21 Acenaphthylene-d8 (SS)	=====	160	6.193	6.194	(0.979)	556877	0.55567	556

Data File: /var/chem/gcms/mp.i/P072911.b/mk09r1ac.d
Report Date: 05-Aug-2011 13:32

Compounds	QUANT SIG	MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN	FINAL
							(ug/ml)	(ng/sample)
=====	=====	=====	=====	=====	=====	=====	=====	=====
22 Acenaphthylene		152	6.205	6.202	(1.002)	20648	0.01839	18.4
* 23 Acenaphthene-d10		164	6.325	6.325	(1.000)	283243	0.50000	0.500
24 Acenaphthene		154	6.353	6.350	(1.026)	173176	0.25826	258
25 2,3,5 Trimethylnaphthalene		170	6.671	6.669	(1.124)	43326	0.08767	87.7
\$ 26 Fluorene-d10		176	6.761	6.758	(0.892)	586766	1.11702	1120
27 Fluorene		166	6.786	6.783	(0.895)	1580547	2.32684	2330
\$ 28 13C6-Fluorene		171	6.783	6.781	(0.895)	588750	1.00422	1000
* 34 Dibenzothiophene-d8		192	7.476	7.474	(1.000)	522228	0.50000	0.500
\$ 35 Dibenzothiophene-d8 (SS)		192	7.476	7.474	(0.841)	522228	0.42392	424
36 Dibenzothiophene		184	7.490	7.489	(1.002)	7460073	7.48896	7490 E
* 41 Phenanthrene-d10		188	7.580	7.578	(1.000)	443060	0.50000	0.500
\$ 42 Phenanthrene-d10 (SS)		188	7.580	7.578	(0.853)	443060	0.39864	399
43 Phenanthrene		178	7.598	7.597	(1.002)	8336503	8.56986	8570 (M) E
* 44 Anthracene-d10		188	7.627	7.626	(1.000)	451279	0.50000	0.500
\$ 45 Anthracene-d10 (SS)		188	7.627	7.626	(0.858)	451279	0.48084	481
46 Anthracene		178	7.644	7.642	(1.002)	212204	0.18274	183
\$ 47 13C6-Anthracene		184	7.644	7.642	(0.860)	440359	0.43287	433
52 1-Methylphenanthrene		192	8.145	8.143	(1.075)	72255	0.12366	124
* 53 Fluoranthene-d10		212	8.667	8.665	(1.000)	484398	0.50000	0.500
\$ 54 Fluoranthene-d10 (SS)		212	8.667	8.665	(0.975)	484398	0.46794	468
55 Fluoranthene		202	8.687	8.683	(1.002)	669857	0.61460	615
* 56 Pyrene-d10		212	8.889	8.885	(1.000)	421986	0.50000	0.500
57 Pyrene		202	8.947	8.904	(1.032)	6019682	5.22272	5220 E
\$ 58 Terphenyl-d14		244	9.051	9.043	(1.044)	729752	1.47034	1470 (R)
* 60 Benzo(a)anthracene-d12		240	10.103	10.100	(1.000)	373319	0.50000	0.500
\$ 61 Benzo(a)anthracene-d12 (SS)		240	10.103	10.100	(1.137)	373319	0.72531	725 (R)
* 63 Chrysene-d12		240	10.141	10.133	(1.000)	345875	0.50000	0.500
\$ 64 Chrysene-d12 (SS)		240	10.141	10.133	(1.141)	345875	0.38302	383
65 Chrysene		228	10.154	10.163	(1.001)	11702723	15.4996	15500 E
* 70 Benzo(b)fluoranthene-d12		264	11.258	11.253	(1.000)	358853	0.50000	0.500
\$ 71 Benzo(b)fluoranthene-d12 (SS)		264	11.258	11.253	(0.973)	358853	0.57022	570
72 Benzo(b)fluoranthene		252	11.282	11.277	(1.002)	75744	0.07184	71.8 (M)
* 73 Benzo(k)fluoranthene-d12		264	11.288	11.289	(1.000)	336661	0.50000	0.500
\$ 74 Benzo(k)fluoranthene-d12 (SS)		264	11.288	11.289	(0.975)	336661	0.37483	375
75 Benzo(k)fluoranthene		252	11.312	11.307	(1.002)	11039	0.01498	15.0 (M)
* 76 Benzo(e)pyrene-d12		264	11.575	11.570	(1.000)	298423	0.50000	0.500
77 Benzo(e)pyrene		252	11.605	11.600	(0.997)	128834	0.13772	138
* 78 Benzo(a)pyrene-d12		264	11.641	11.635	(1.000)	344263	0.50000	0.500
\$ 79 Benzo(a)pyrene-d12 (SS)		264	11.641	11.635	(1.006)	344129	0.53481	535
80 Benzo(a)pyrene		252	11.671	11.665	(1.003)	26668	0.03413	34.1
* 81 Perylene-d12		264	11.736	11.737	(1.000)	304548	0.50000	0.500
\$ 82 Perylene-d12 (SS)		264	11.736	11.737	(1.014)	304548	0.47455	475
83 Perylene		252	11.766	11.761	(1.003)	16991	0.02214	22.1
* 84 Indeno(123-cd)pyrene-d12		288	13.110	13.106	(1.000)	368735	0.50000	0.500
\$ 85 Indeno(123-cd)pyrene-d12 (SS)		288	13.110	13.106	(1.133)	368735	0.50148	501
86 Indeno(1,2,3-cd)pyrene		276	13.148	13.140	(1.003)	11119	0.01246	12.5
* 87 Dibenz(ah)anthracene-d14		292	13.114	13.110	(1.000)	273543	0.50000	0.500

Data File: /var/chem/gcms/mp.i/P072911.b/mk09r1ac.d
 Report Date: 05-Aug-2011 13:32

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN	FINAL
	MASS					(ug/ml)	(ng/sample)
=====	=====	==	=====	=====	=====	=====	=====
\$ 88 Dibenz (ah) anthracene-d14 (SS)	292	13.114	13.110	(1.133)	273543	0.48841	488
89 Dibenz (a,h) anthracene	278	13.152	13.157	(1.003)	10083	0.01501	15.0
* 90 Benzo (ghi) perylene-d12	288	13.464	13.460	(1.000)	251913	0.50000	0.500
\$ 91 Benzo (ghi) perylene-d12 (SS)	288	13.464	13.460	(1.163)	251925	0.45589	456
92 Benzo (g,h,i) perylene	276	13.498	13.494	(1.002)	17490	0.02508	25.1

QC Flag Legend

R - Spike/Surrogate failed recovery limits.
 M - Compound response manually integrated.

Data File: /var/chem/gcms/mp.i/P072911.b/mk09r1ac.d
 Report Date: 05-Aug-2011 11:25

TestAmerica Knoxville

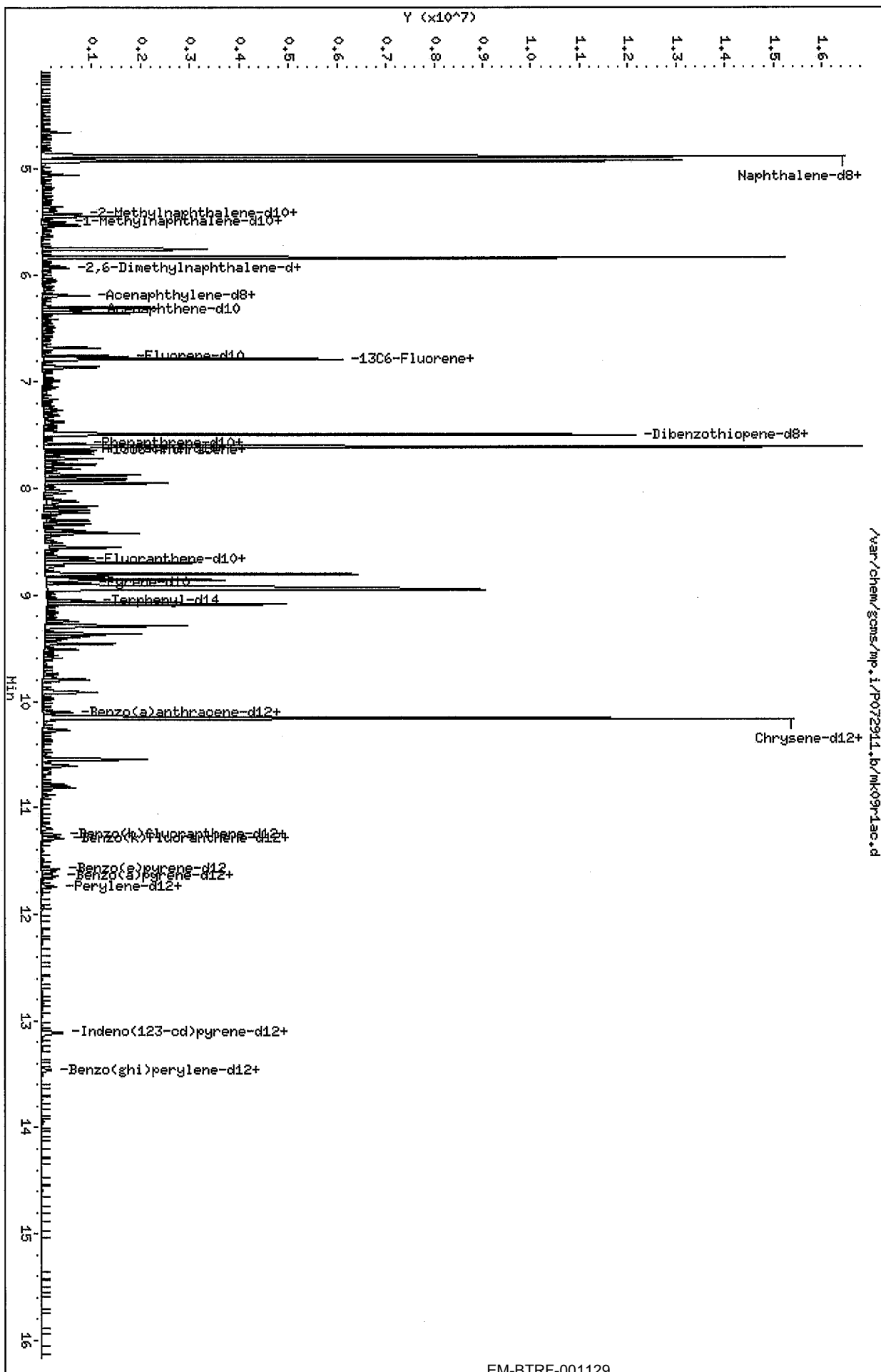
RECOVERY REPORT

Client Name: TRC Environmental Co19-JUL-2011 00:00 Client SDG: H1G190403
 Sample Matrix: GAS Fraction: SV
 Lab Smp Id: MK09R1AC Client Smp ID: EXM-SRU-M0010-R3-CO
 Level: LOW Operator: 11211
 Data Type: MS DATA SampleType: SAMPLE
 SpikeList File: icv.spk Quant Type: ISTD
 Sublist File: pah.sub
 Method File: /var/chem/gcms/mp.i/P072911.b/SIMPAH3.m
 Misc Info: P072911,SIMPAH3

SURROGATE COMPOUND	CONC ADDED ng/sample	CONC RECOVERED ng/sample	% RECOVERED	LIMITS
\$ 2 Naphthalene-d8 (SS)	500	292	58.38	30-120
\$ 222 13C6-Naphthalene	500	0.00	*	50-150
\$ 11 2-Methylnaphthalen	500	427	85.33	30-120
\$ 14 1-Methylnaphthalen	500	397	79.44	30-120
\$ 18 2,6-Dimethylnaph-d	500	485	96.97	30-120
\$ 21 Acenaphthylene-d8 (	500	556	111.13	30-120
\$ 26 Fluorene-d10	1000	1120	111.70	30-120
\$ 28 13C6-Fluorene	1000	1000	100.42	30-120
\$ 35 Dibenzothiopene-d8	500	424	84.78	30-120
\$ 42 Phenanthrene-d10 (S	500	399	79.73	30-120
\$ 45 Anthracene-d10 (SS)	500	481	96.17	30-120
\$ 47 13C6-Anthracene	500	433	86.57	30-120
\$ 54 Fluoranthene-d10 (S	500	468	93.59	0-120
\$ 58 Terphenyl-d14	1000	1470	147.03*	30-120
\$ 61 Benzo (a) anthracene	500	725	145.06*	30-120
\$ 64 Chrysene-d12 (SS)	500	383	76.60	30-120
\$ 71 Benzo (b) fluoranthe	500	570	114.04	30-120
\$ 74 Benzo (k) fluoranthe	500	375	74.97	30-120
\$ 79 Benzo (a) pyrene-d12	500	535	106.96	30-120
\$ 82 Perylene-d12 (SS)	500	475	94.91	30-120
\$ 85 Indeno (123-cd) pyre	500	501	100.30	30-120
\$ 88 Dibenz (ah) anthrace	500	488	97.68	30-120
\$ 91 Benzo (ghi) perylene	500	456	91.18	30-120

Data File: /var/chem/gcms/mp.i/P072911.b/mk09r1ac.d
 Date: 29-JUL-2011 16:43
 Client ID: EXH-SRU-H0010-R3-C0
 Sample Info: ,,,
 Purge Volume: 1.0
 Column phase: Varian: SMS

Instrument: mp.i
 Operator: 11211
 Column diameter: 0.25



Data File: /var/chem/gcms/mp.i/P072911.b/mk09r1ac.d

Date : 29-JUL-2011 16:43

Client ID: EXM-SRU-M0010-R3-C0

Instrument: mp.i

Sample Info: ,,0,,,

Purge Volume: 1.0

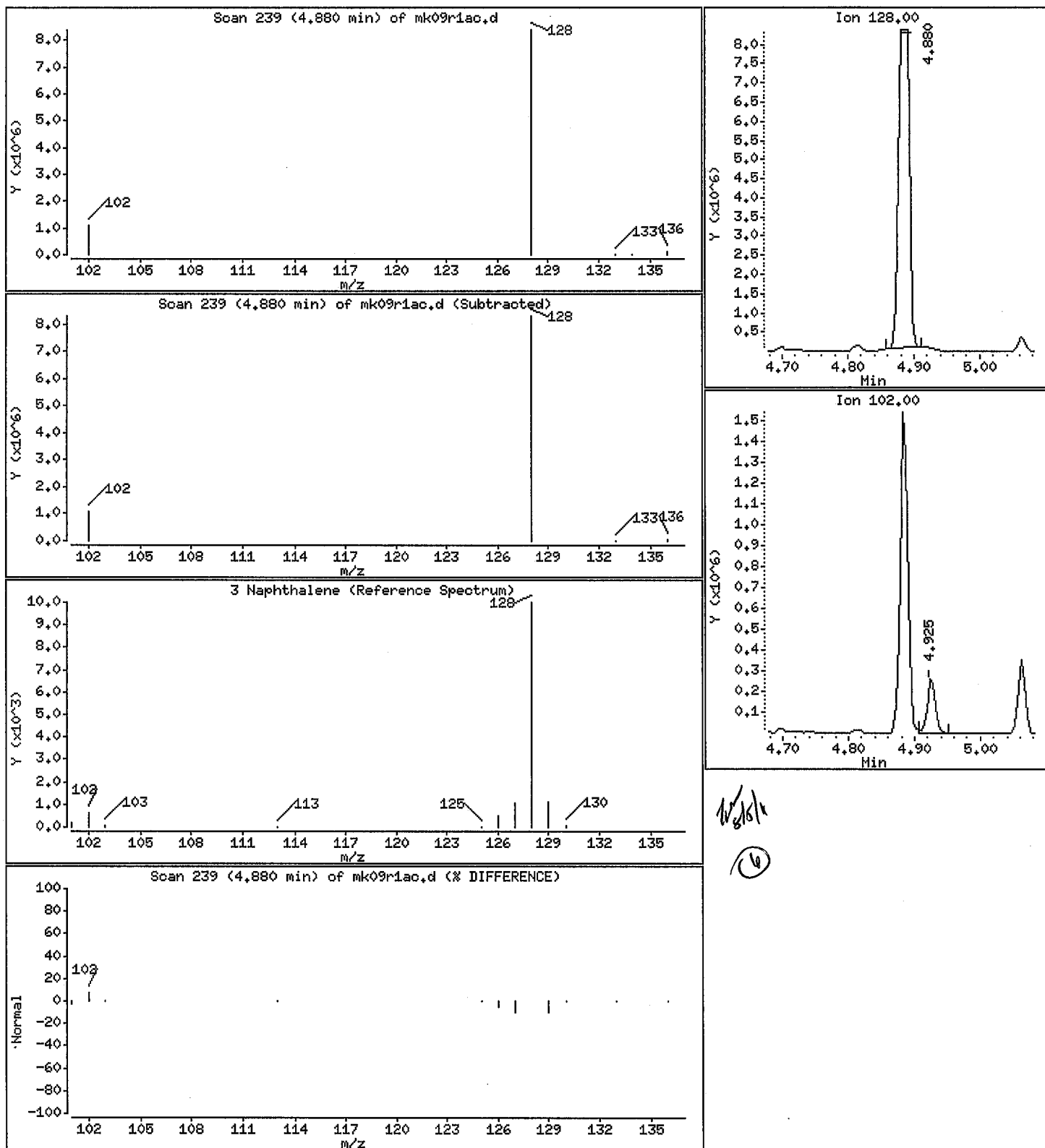
Operator: 11211

Column phase: Varian: 5MS

Column diameter: 0.25

3 Naphthalene

Concentration: 14700 ng/sample



EM-BTRF-001130

Data File: /var/chem/gcms/mp.i/P072911.b/mk09r1ao.d

Date : 29-JUL-2011 16:43

Client ID: EXM-SRU-M0010-R3-C0

Instrument: mp.i

Sample Info: ,,0,,,

Purge Volume: 1.0

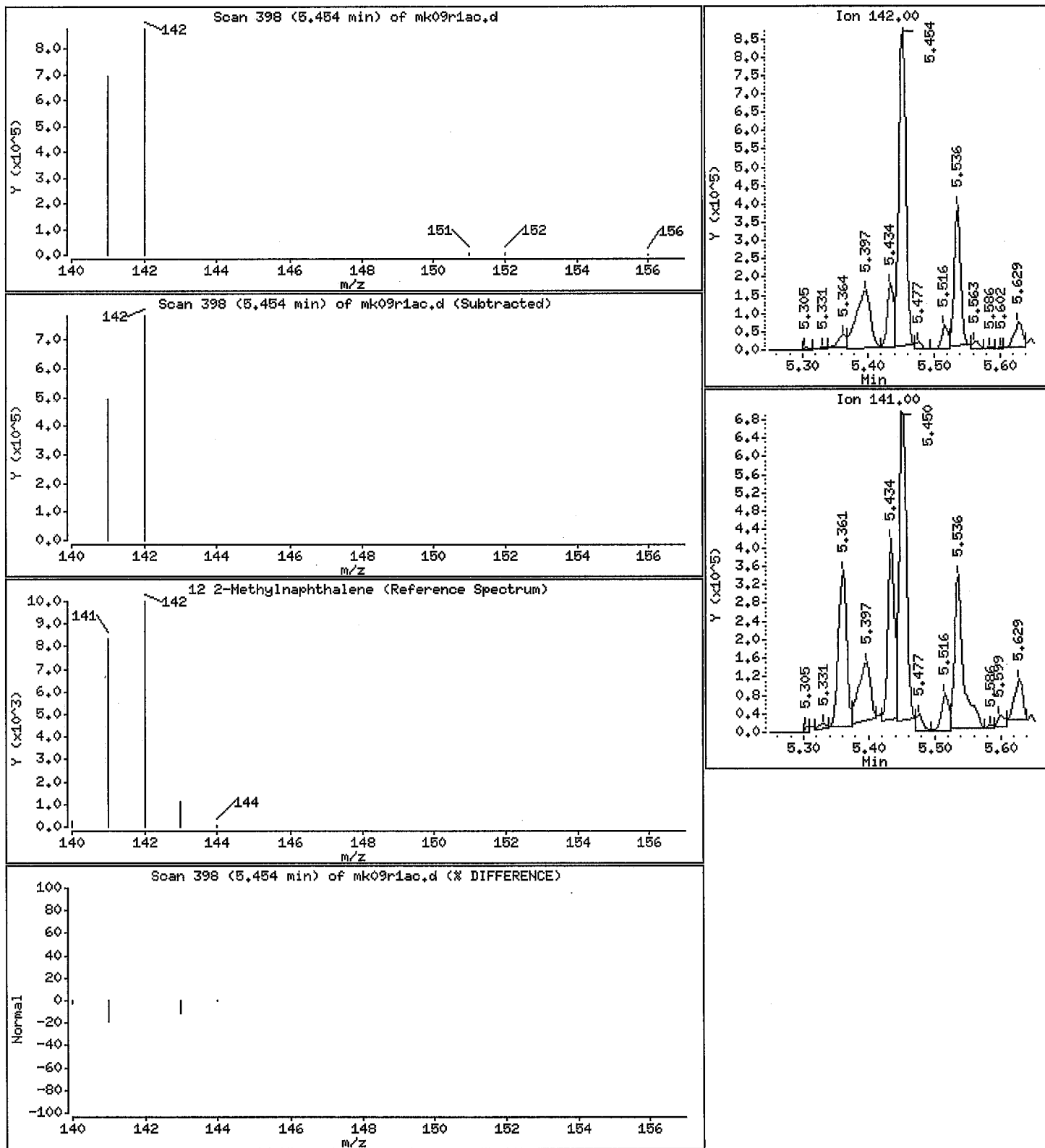
Operator: 11211

Column phase: Variant 5MS

Column diameter: 0.25

12 2-Methylnaphthalene

Concentration: 1020 ng/sample



Data File: /var/chem/gcms/mp.i/P072911.b/mk09r1ao.d

Date : 29-JUL-2011 16:43

Client ID: EXM-SRU-M0010-R3-C0

Instrument: mp.i

Sample Info: ,,0,,,

Purge Volume: 1.0

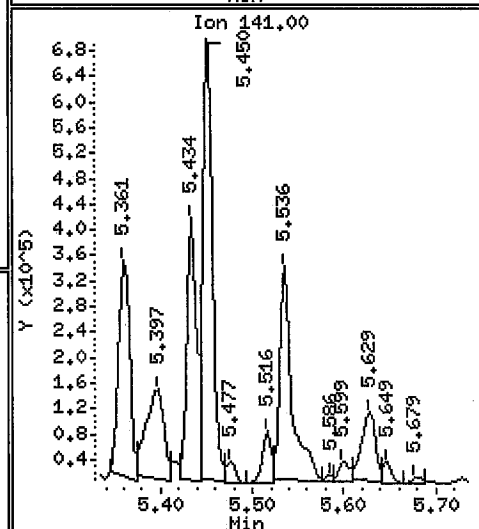
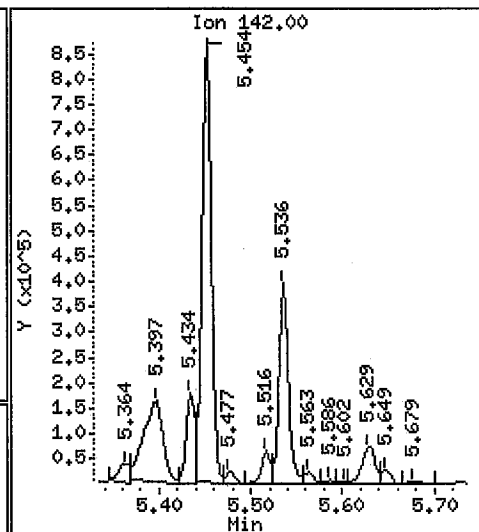
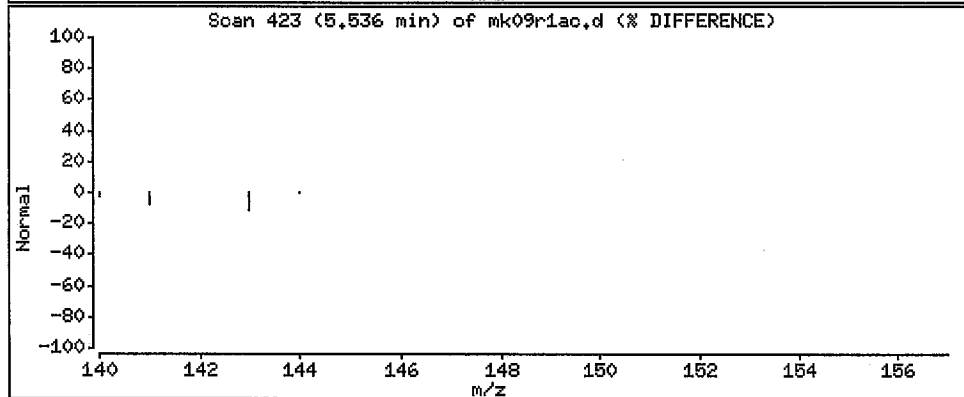
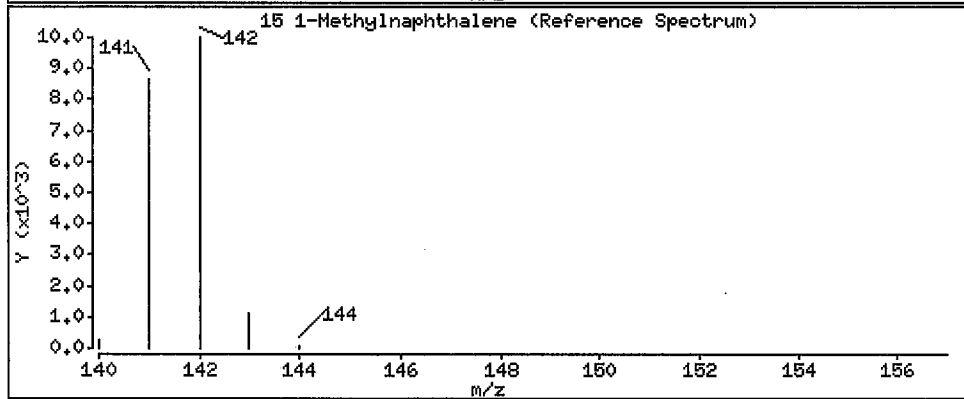
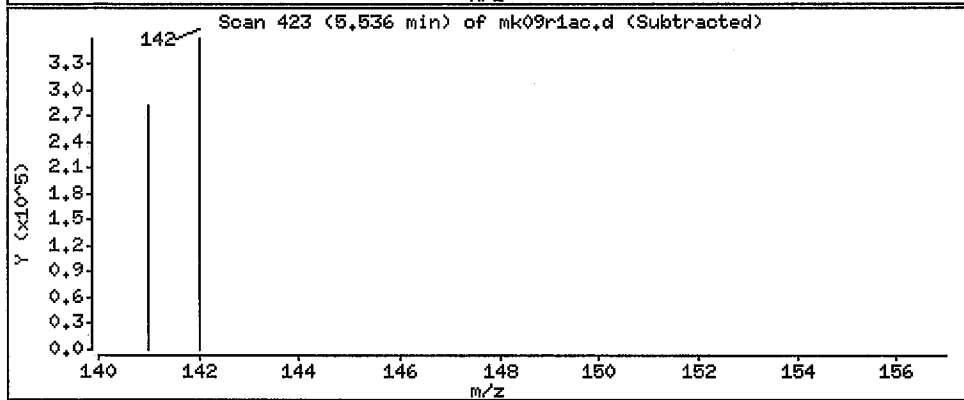
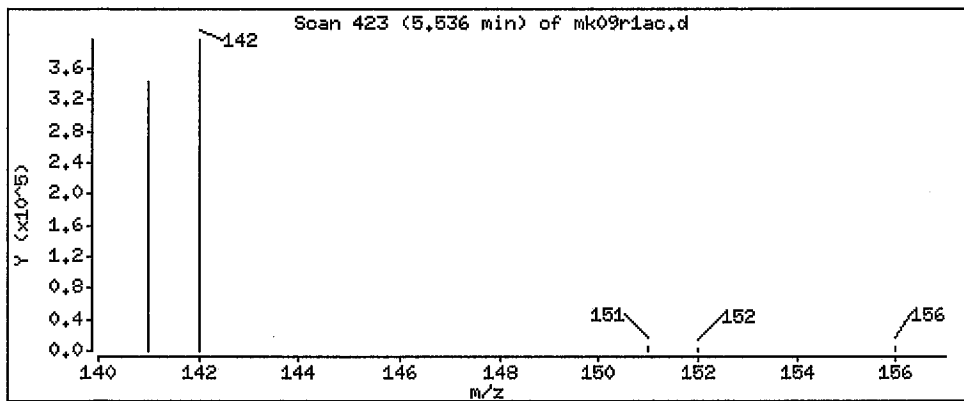
Operator: 11211

Column phase: Varian: 5MS

Column diameter: 0.25

15 1-Methylnaphthalene

Concentration: 532 ng/sample



Data File: /var/chem/gcms/mp.i/P072911.b/mk09r1ao.d

Date : 29-JUL-2011 16:43

Client ID: EXM-SRU-M0010-R3-C0

Instrument: mp.i

Sample Info: ,,0,,,

Purge Volume: 1.0

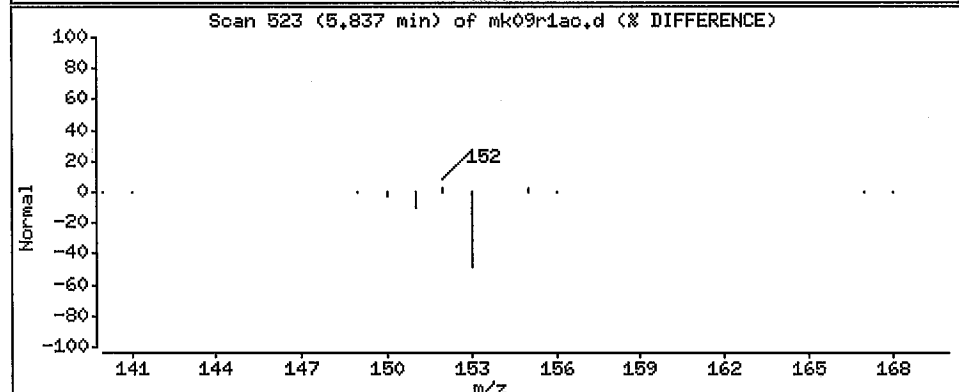
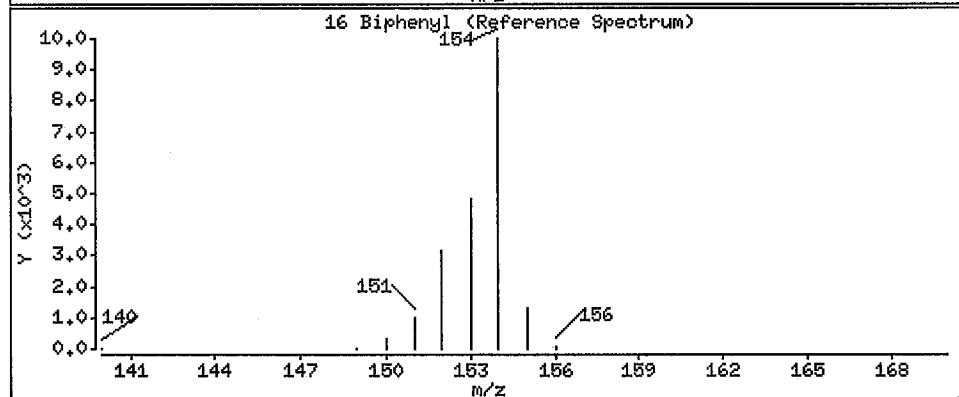
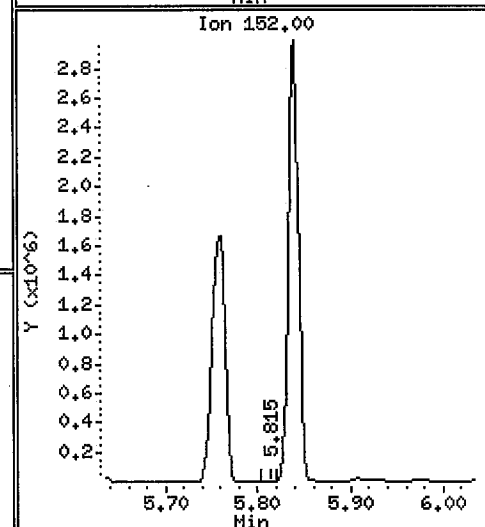
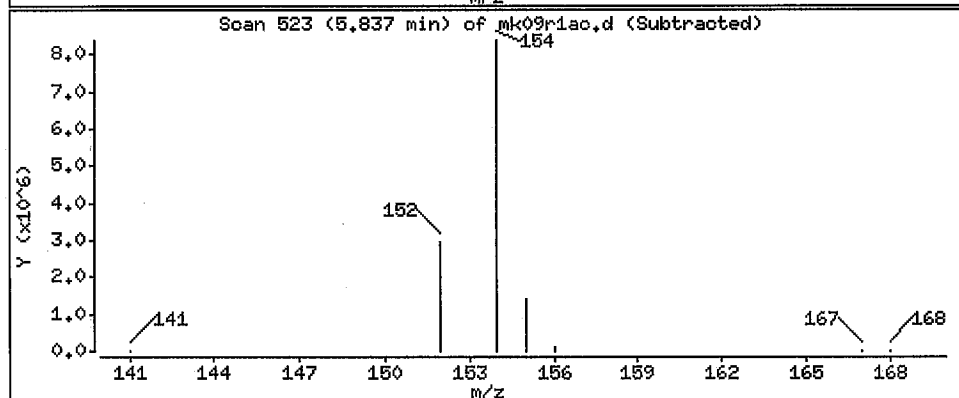
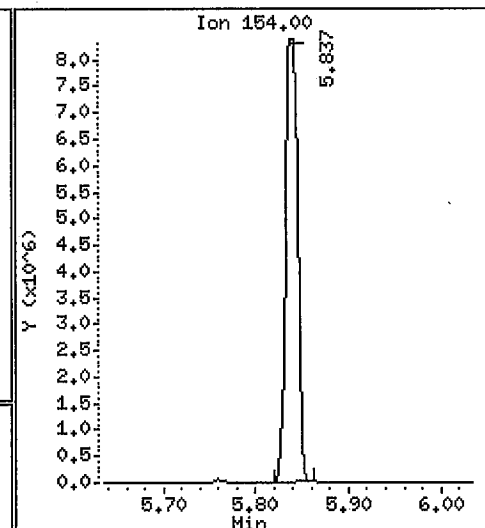
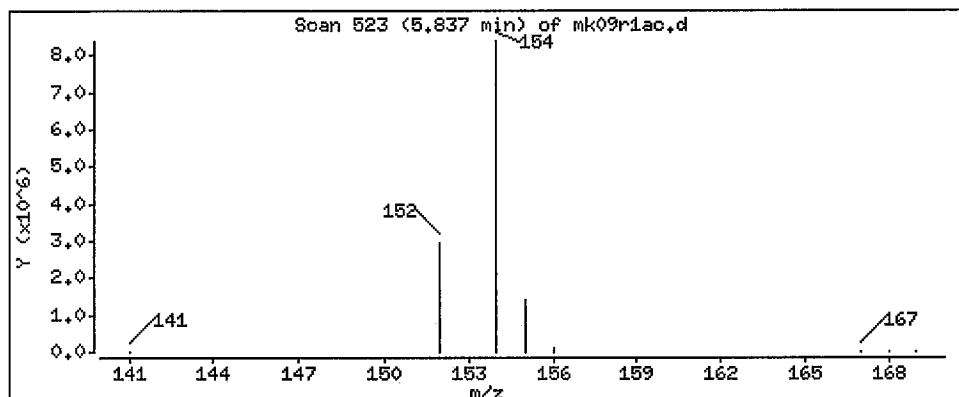
Operator: 11211

Column phase: Varian: 5MS

Column diameter: 0.25

16 Biphenyl

Concentration: 10400 ng/sample



EM-BTRF-001133

Data File: /var/chem/gcms/mp.i/P072911.b/mk09r1ac.d

Date : 29-JUL-2011 16:43

Client ID: EXM-SRU-M0010-R3-C0

Instrument: mp.i

Sample Info: ,,0,,,

Purge Volume: 1.0

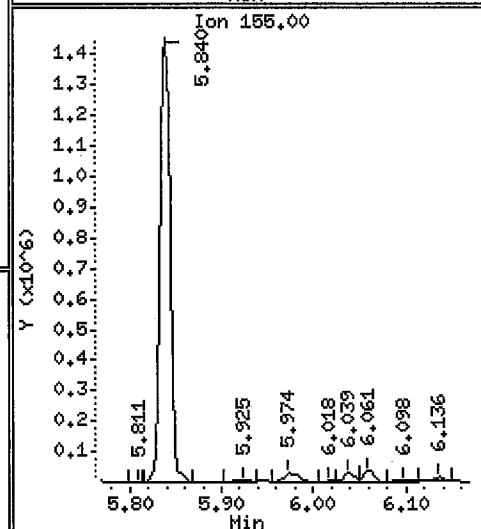
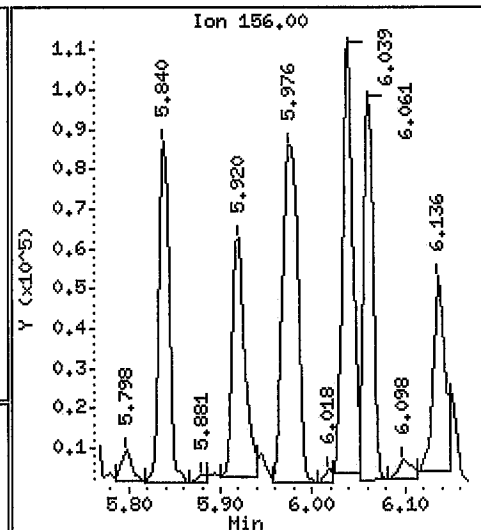
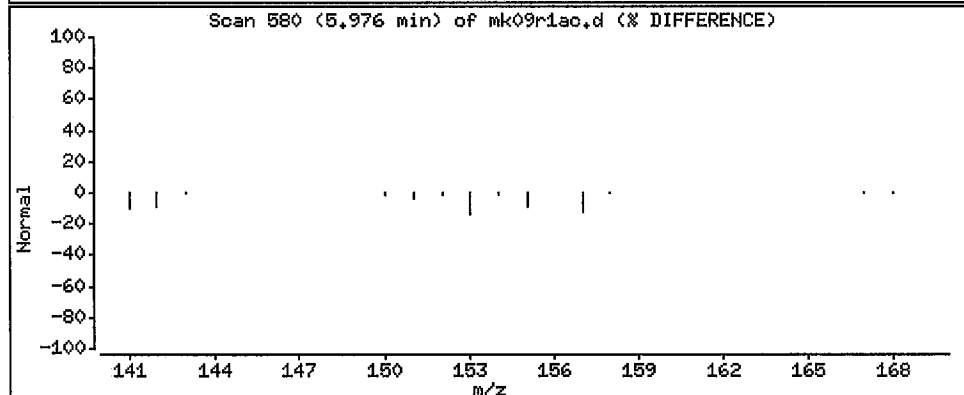
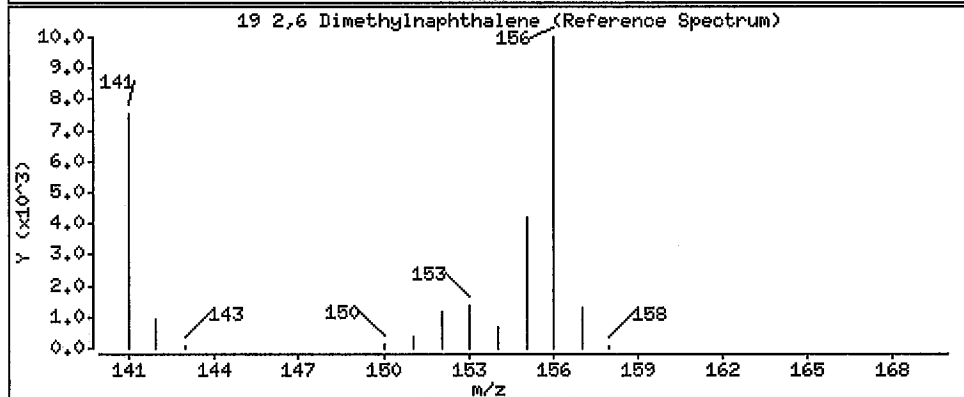
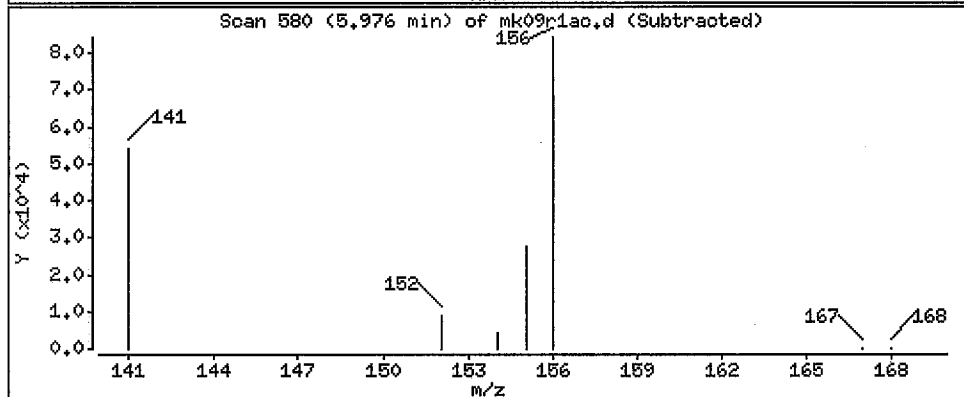
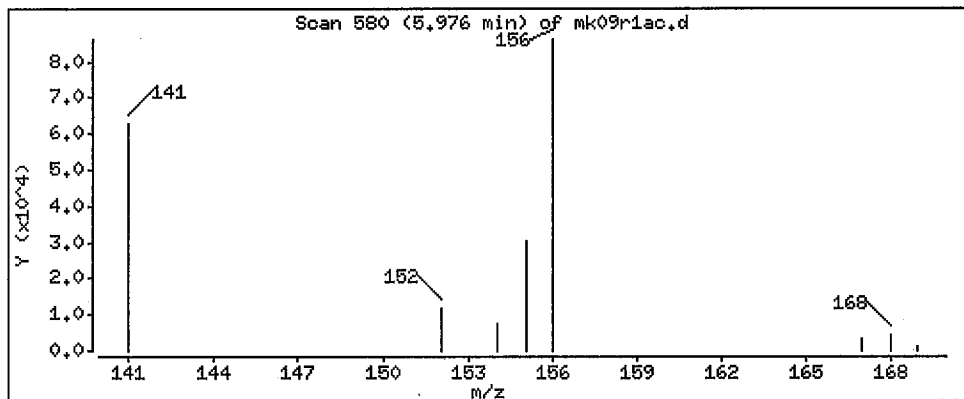
Operator: 11211

Column phase: Varian: 5MS

Column diameter: 0.25

19 2,6 Dimethylnaphthalene

Concentration: 165 ng/sample



Data File: /var/chem/gcms/mp.i/P072911.b/mk09r1ac.d

Date : 29-JUL-2011 16:43

Client ID: EXM-SRU-M0010-R3-C0

Instrument: mp.i

Sample Info: ,,0,,,

Purge Volume: 1.0

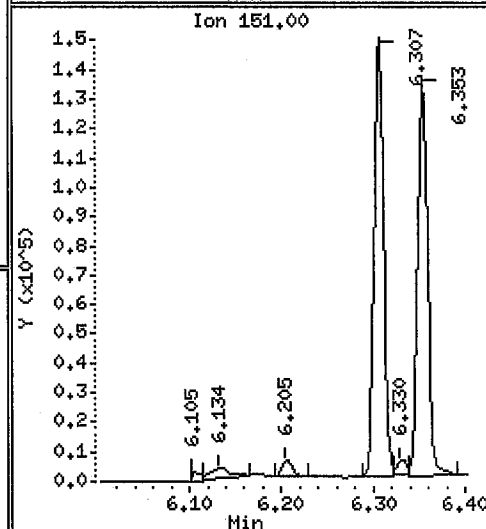
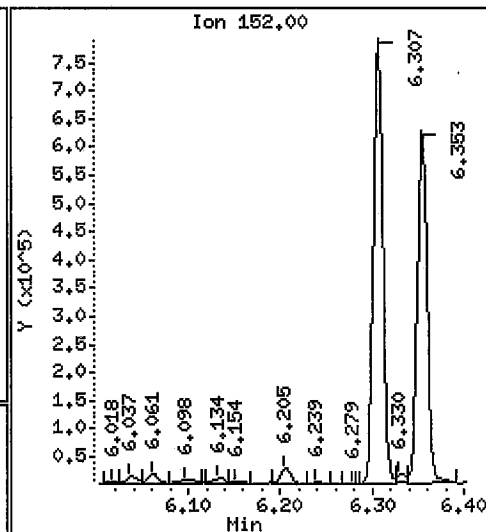
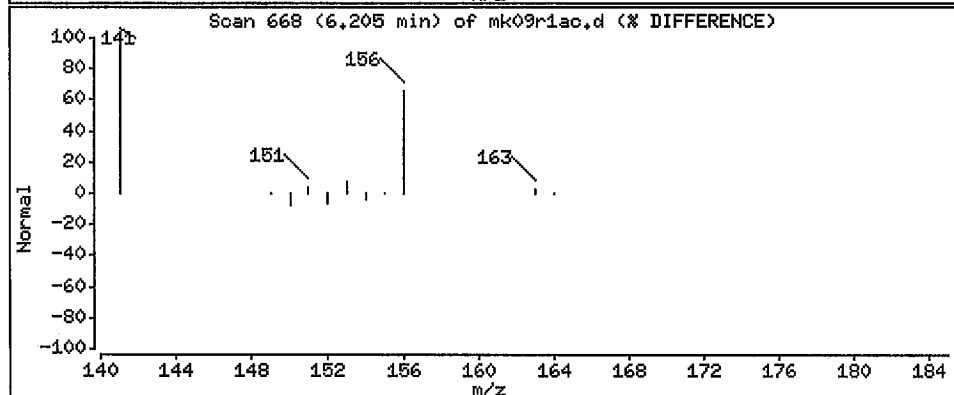
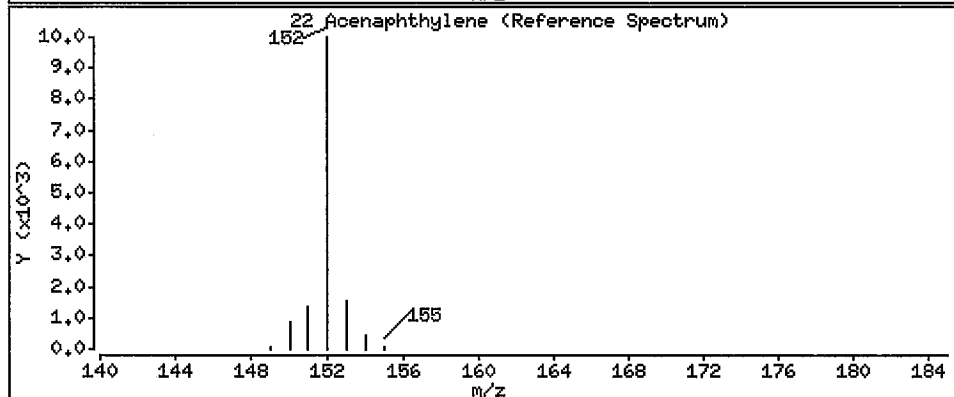
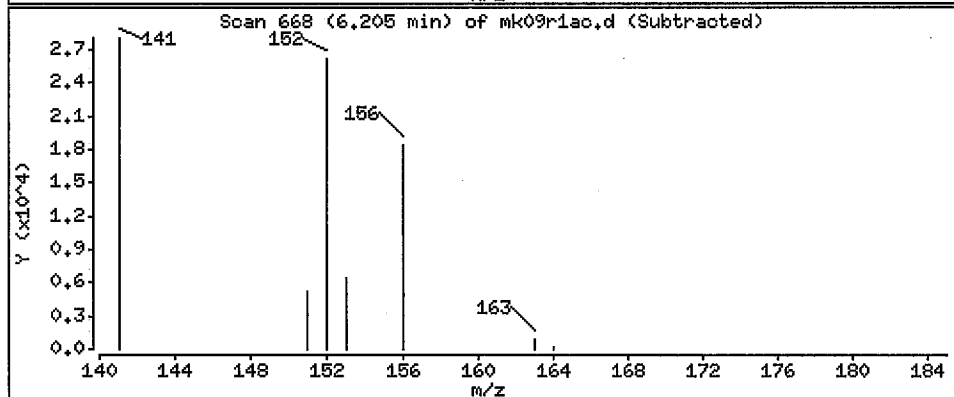
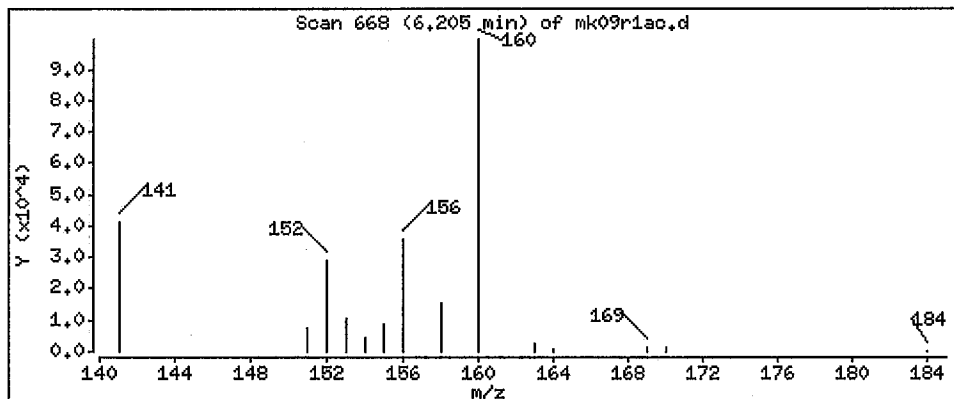
Operator: 11211

Column phase: Varian: 5MS

Column diameter: 0.25

22 Acenaphthylene

Concentration: 18.4 ng/sample



Data File: /var/chem/gcms/mp.i/P072911.b/mk09r1ao.d

Date : 29-JUL-2011 16:43

Client ID: EXM-SRU-M0010-R3-C0

Instrument: mp.i

Sample Info: ,,0,,,

Purge Volume: 1.0

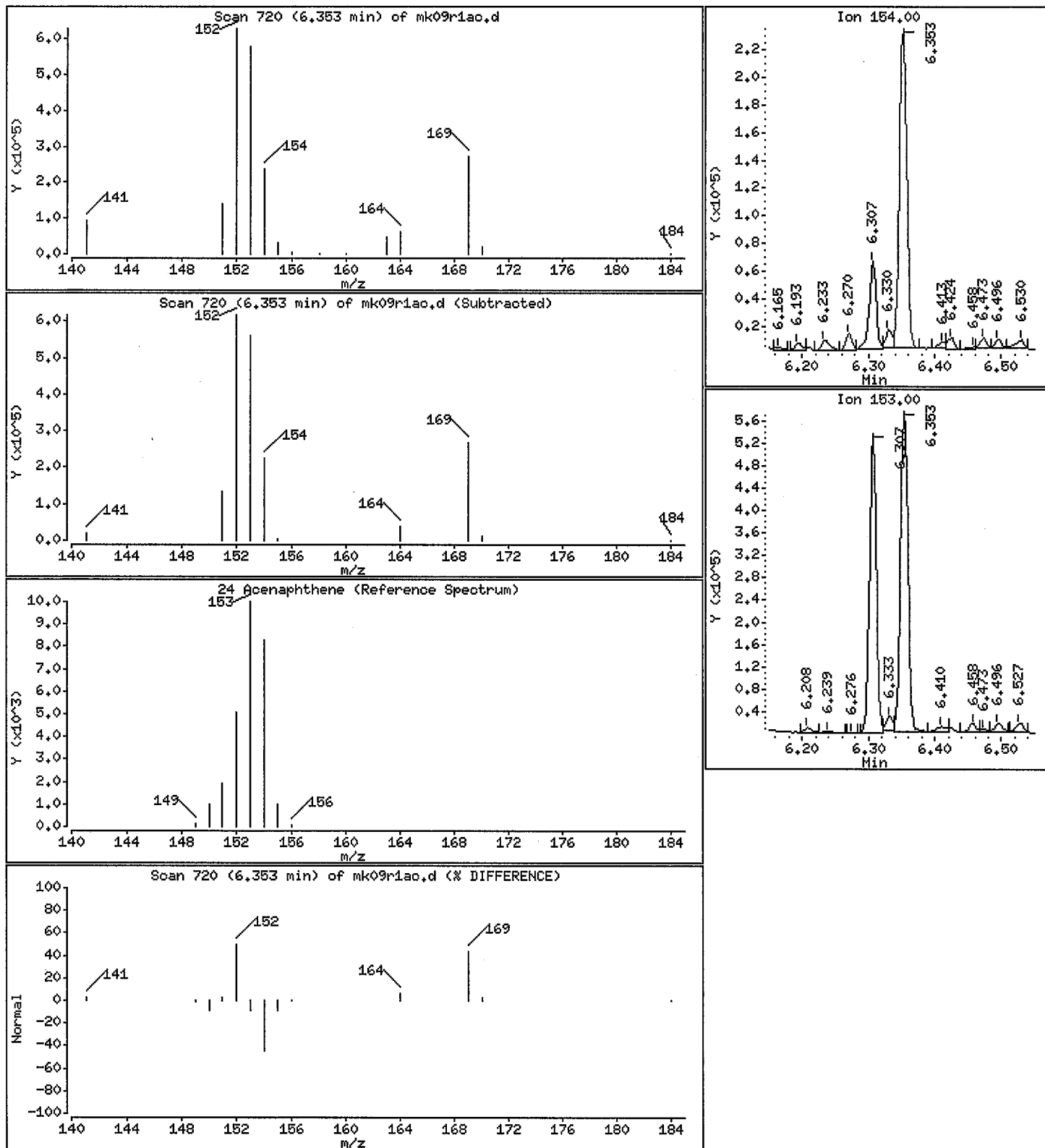
Operator: 11211

Column phase: Varian: 5MS

Column diameter: 0.25

24 Acenaphthene

Concentration: 258 ng/sample



EM-BTRF-001136

Data File: /var/chem/gcms/mp.i/P072911.b/mk09r1ac.d

Date : 29-JUL-2011 16:43

Client ID: EXM-SRU-M0010-R3-C0

Instrument: mp.i

Sample Info: ,,0,,

Purge Volume: 1.0

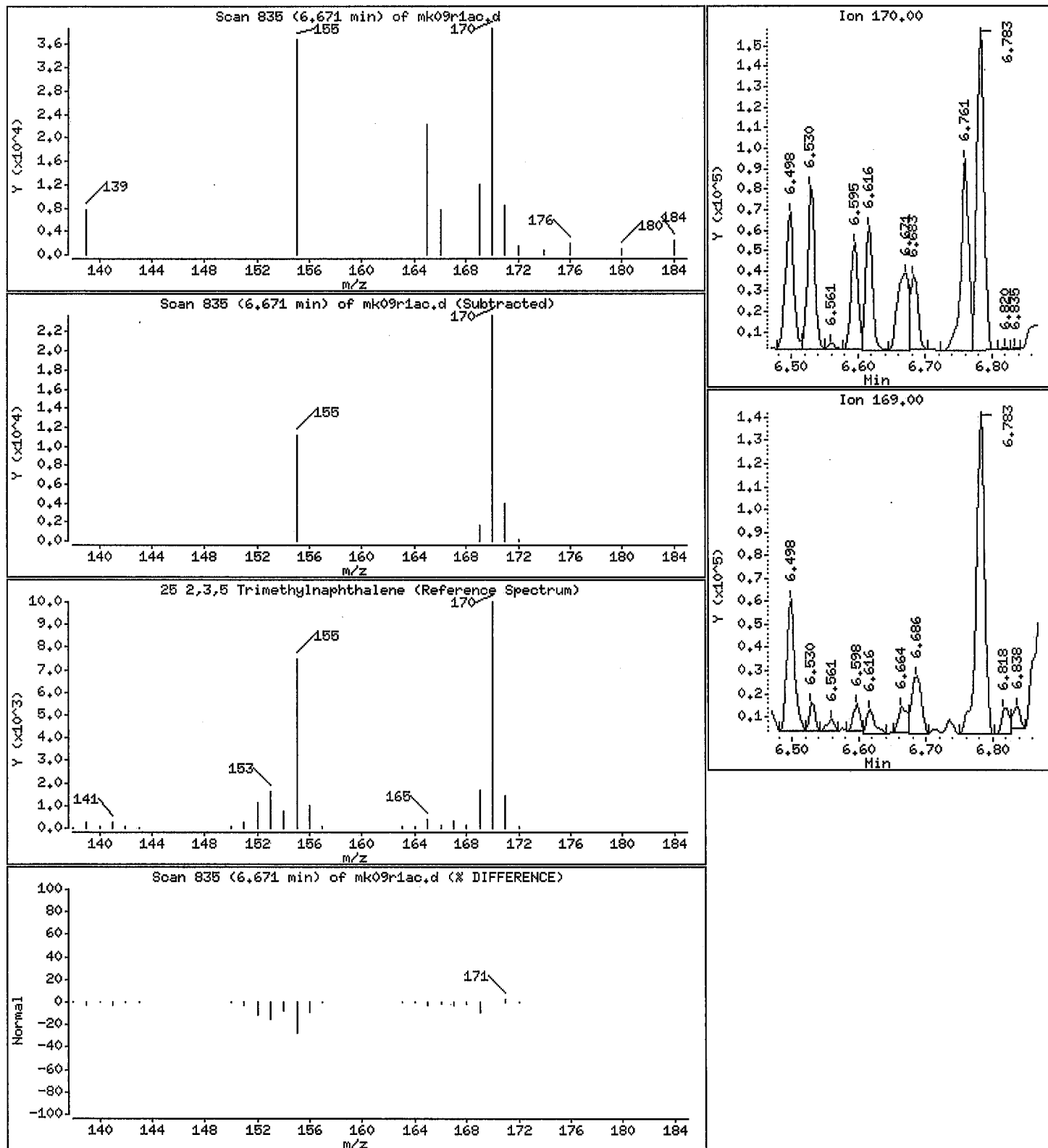
Operator: 11211

Column phase: Varian: 5MS

Column diameter: 0.25

25 2,3,5 Trimethylnaphthalene

Concentration: 87.7 ng/sample



EM-BTRF-001137

Data File: /var/chem/gcms/mp.i/P072911.b/mk09r1ac.d

Date : 29-JUL-2011 16:43

Client ID: EXM-SRU-M0010-R3-C0

Instrument: mp.i

Sample Info: ,,0,,

Purge Volume: 1.0

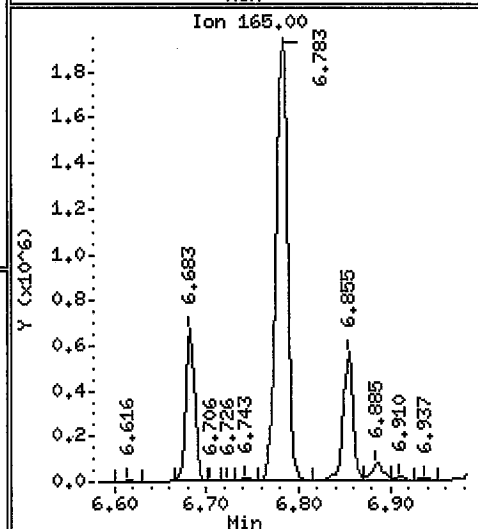
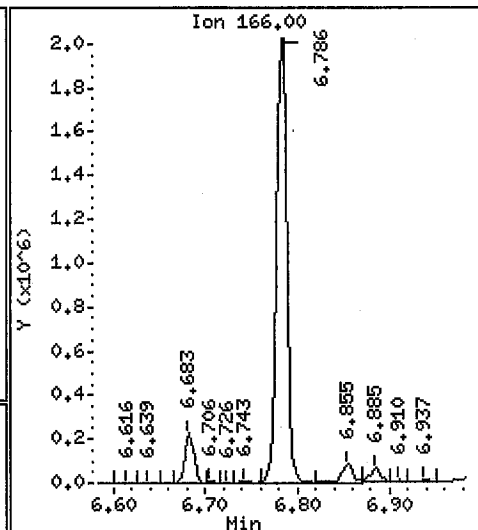
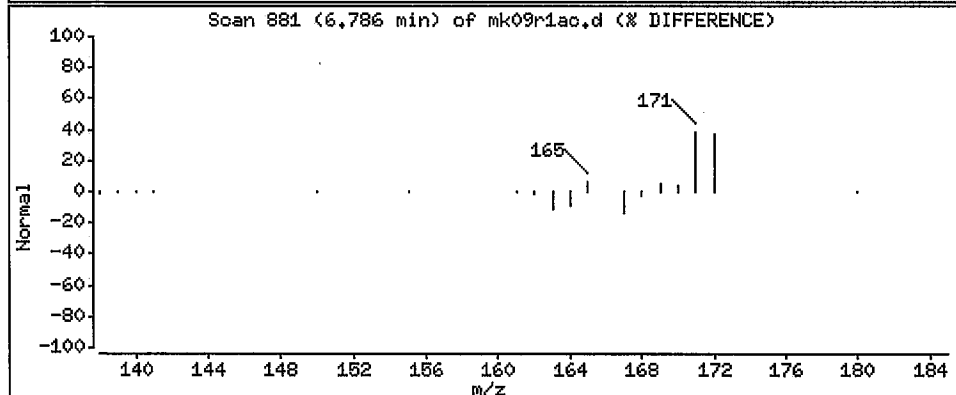
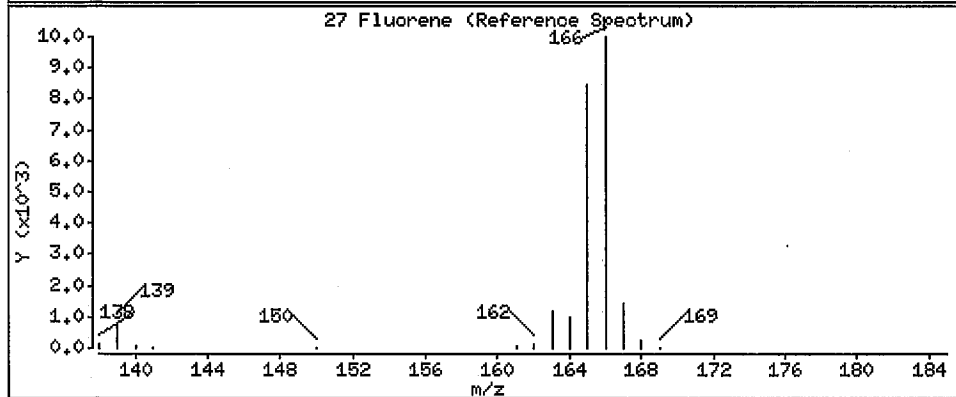
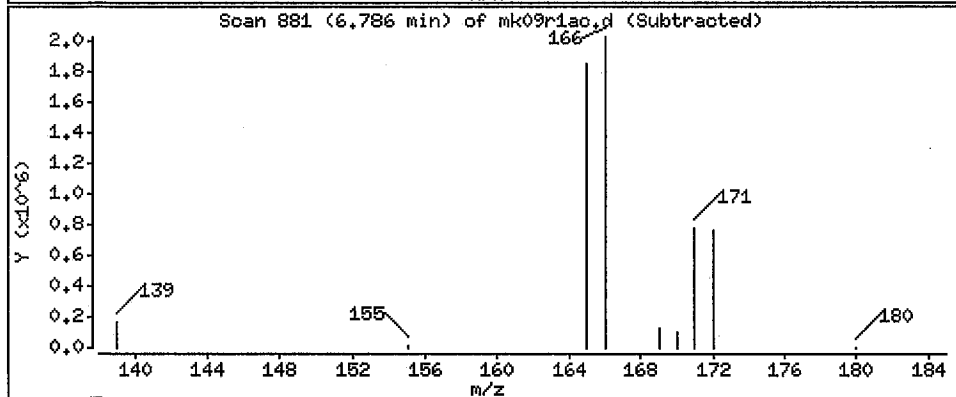
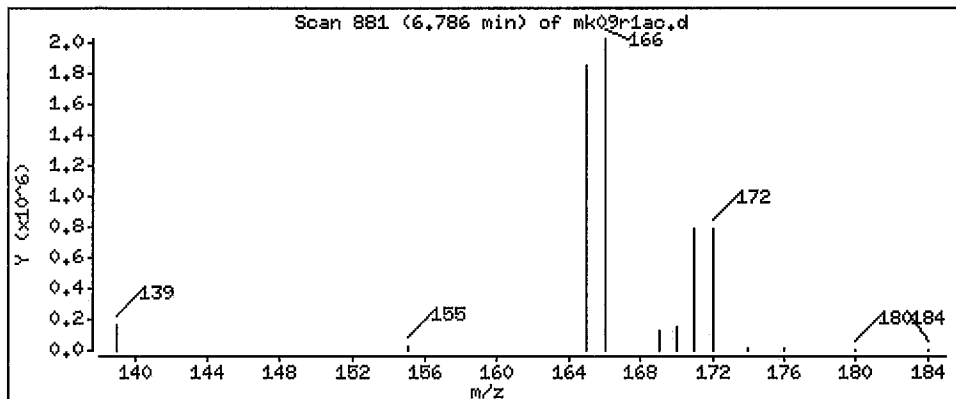
Operator: 11211

Column phase: Varian: 5MS

Column diameter: 0.25

27 Fluorene

Concentration: 2330 ng/sample



EM-BTRF-001138

Data File: /var/chem/gcms/mp.i/P072911.b/mk09r1ao.d

Date : 29-JUL-2011 16:43

Client ID: EXM-SRU-M0010-R3-C0

Instrument: mp.i

Sample Info: ,,0,,,

Purge Volume: 1.0

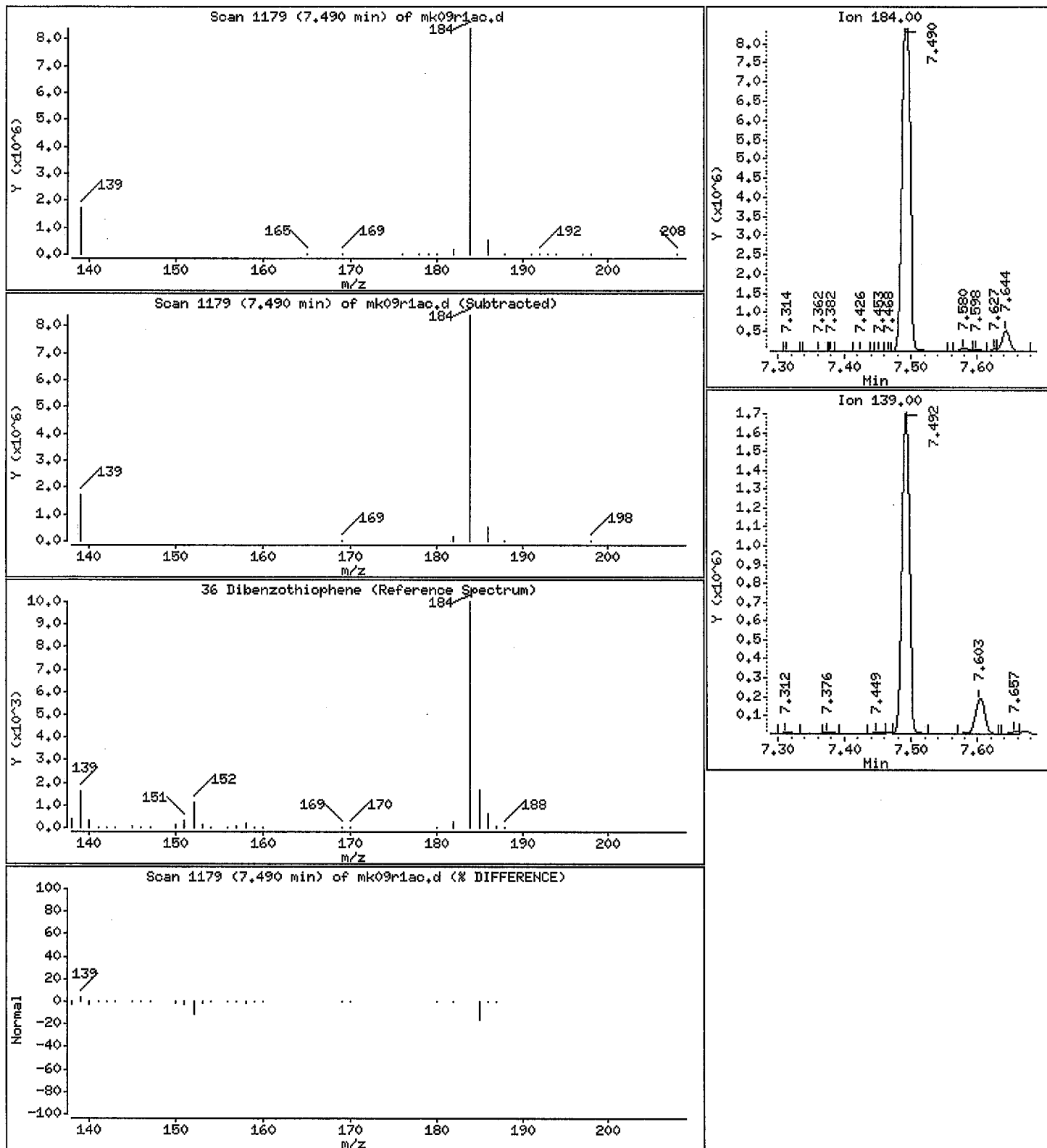
Operator: 11211

Column phase: Varian: 5MS

Column diameter: 0.25

36 Dibenzothiophene

Concentration: 7490 ng/sample



Data File: /var/chem/gcms/mp.i/P072911.b/mk09r1ao.d

Date: 29-JUL-2011 16:43

Client ID: EXM-SRU-M0010-R3-C0

Instrument: mp.i

Sample Info: ,,0,,,

Purge Volume: 1.0

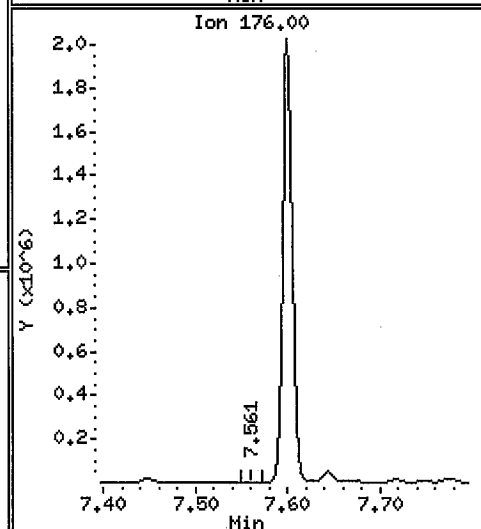
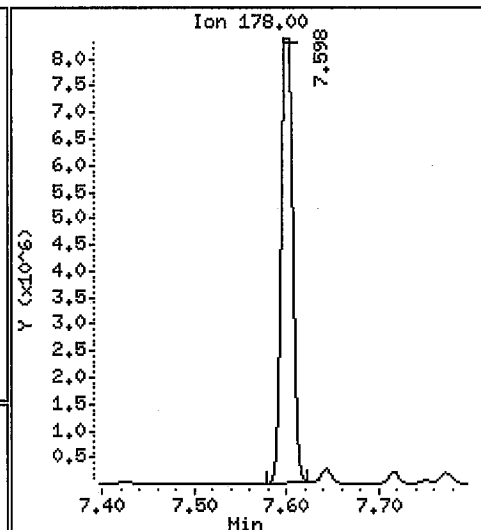
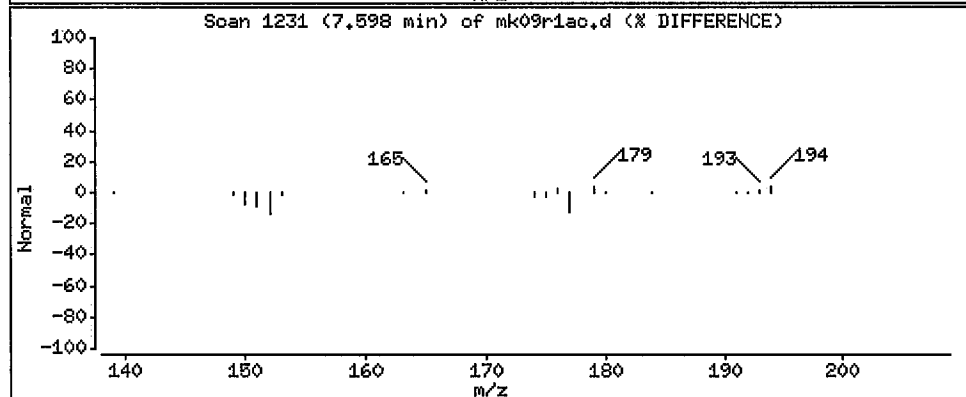
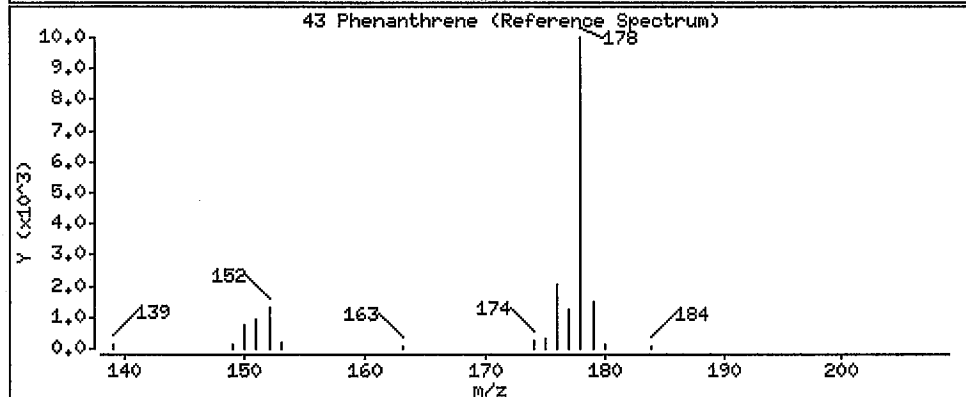
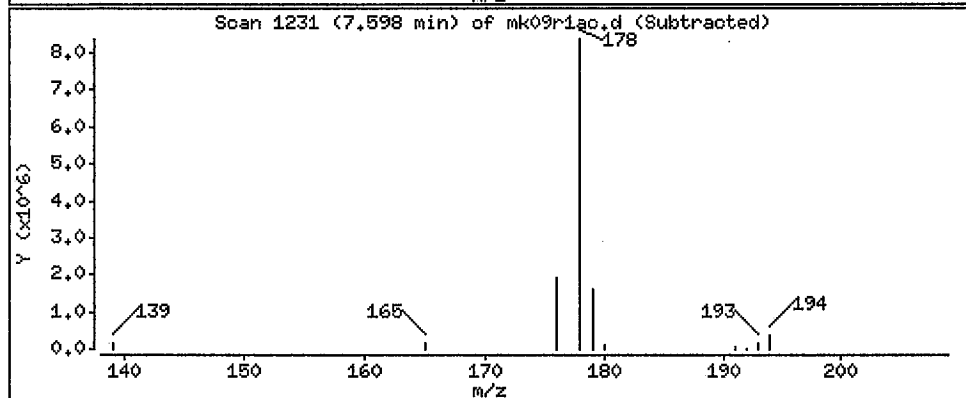
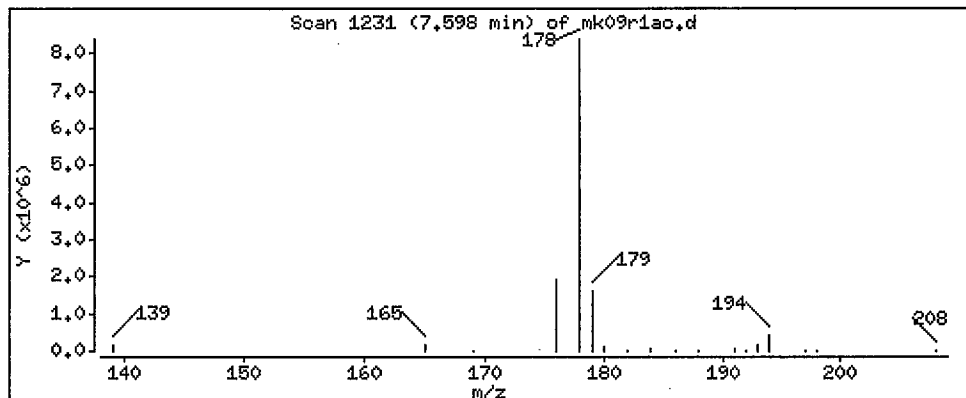
Operator: 11211

Column phase: Varian: SMS

Column diameter: 0.25

43 Phenanthrene

Concentration: 8570 ng/sample

11/26/11
⑥

Data File: /var/chem/gcms/mp.i/P072911.b/mk09r1ac.d

Date : 29-JUL-2011 16:43

Client ID: EXM-SRU-M0010-R3-C0

Instrument: mp.i

Sample Info: ,,0,,,

Purge Volume: 1.0

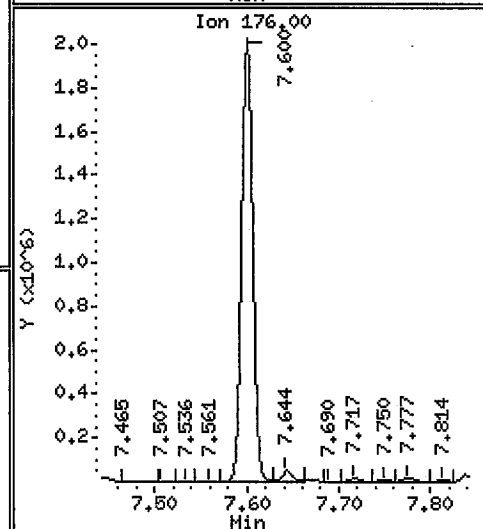
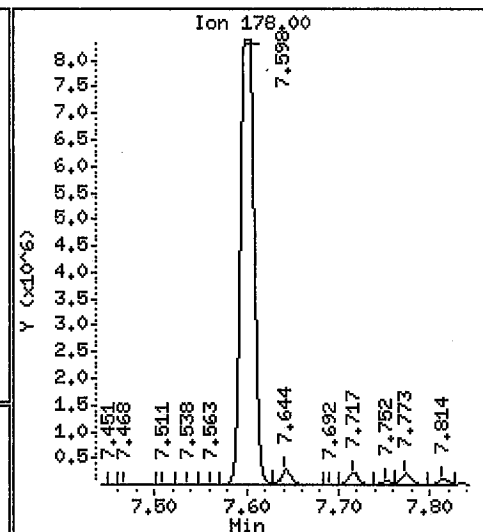
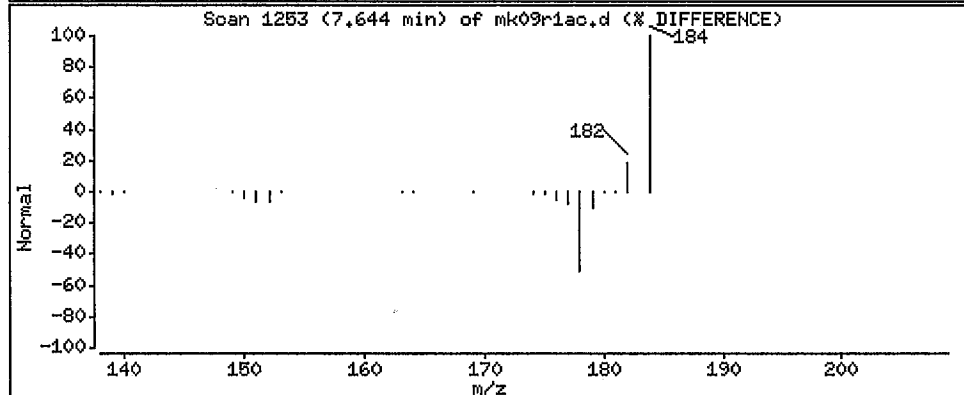
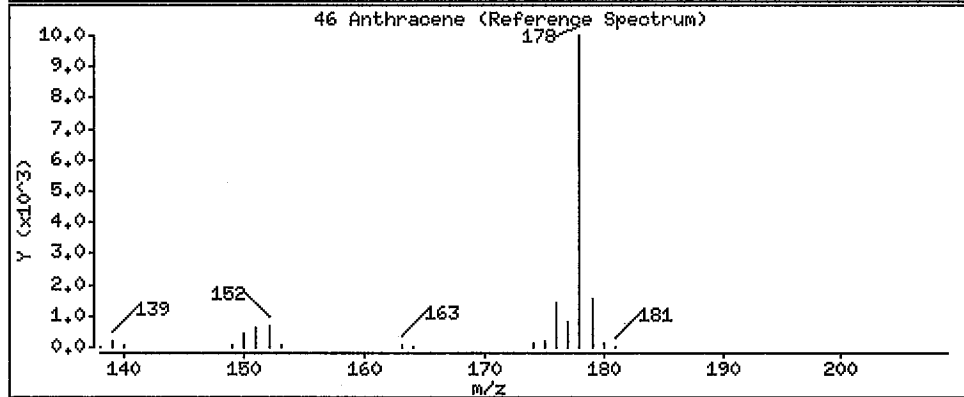
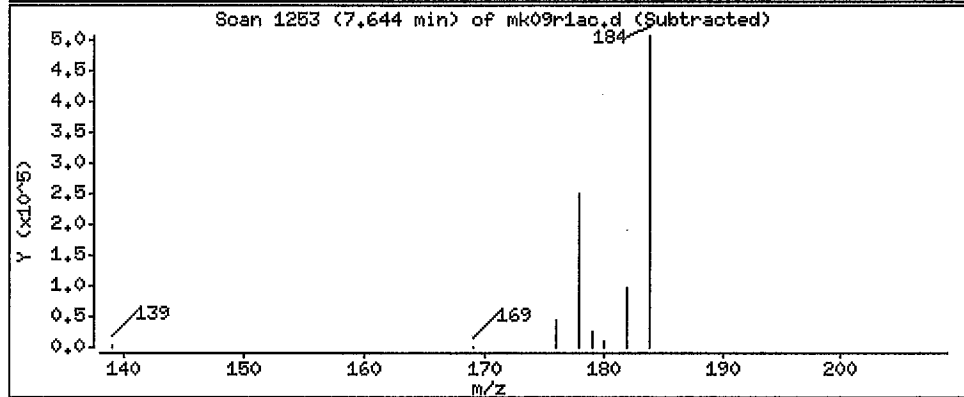
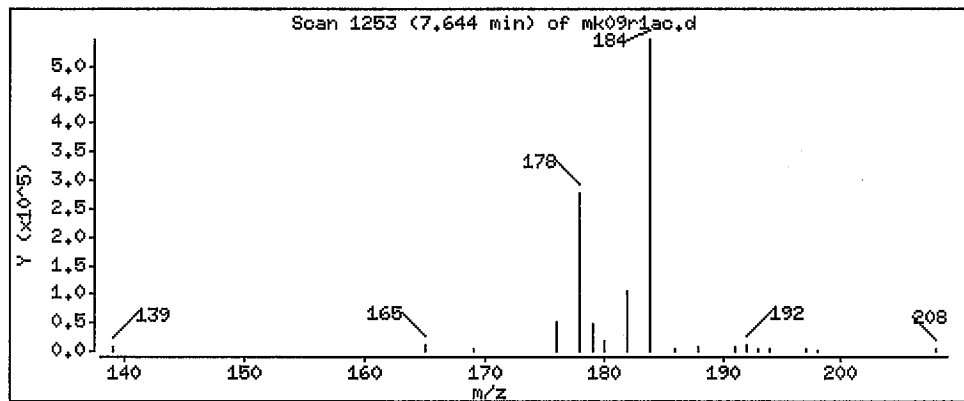
Operator: 11211

Column phase: Varian: 5MS

Column diameter: 0.25

46 Anthracene

Concentration: 183 ng/sample



EM-BTRF-001141

Data File: /var/chem/gcms/mp.i/P072911.b/mk09r1ao.d

Date : 29-JUL-2011 16:43

Client ID: EXM-SRU-M0010-R3-C0

Instrument: mp.i

Sample Info: ,,0,,,

Purge Volume: 1.0

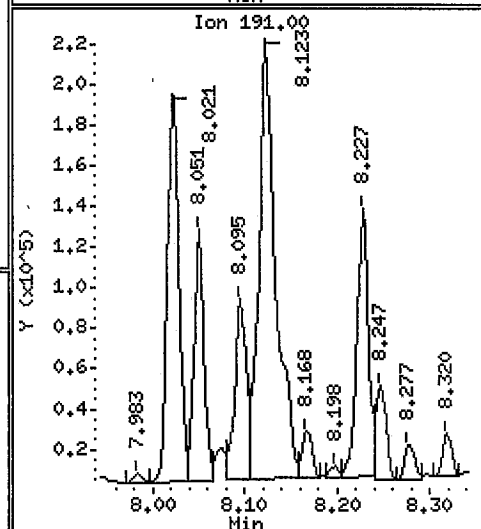
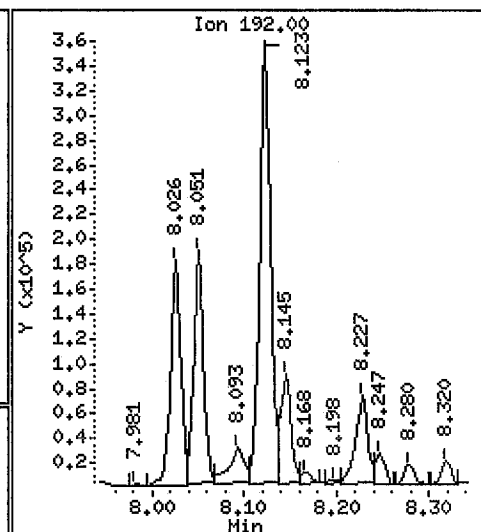
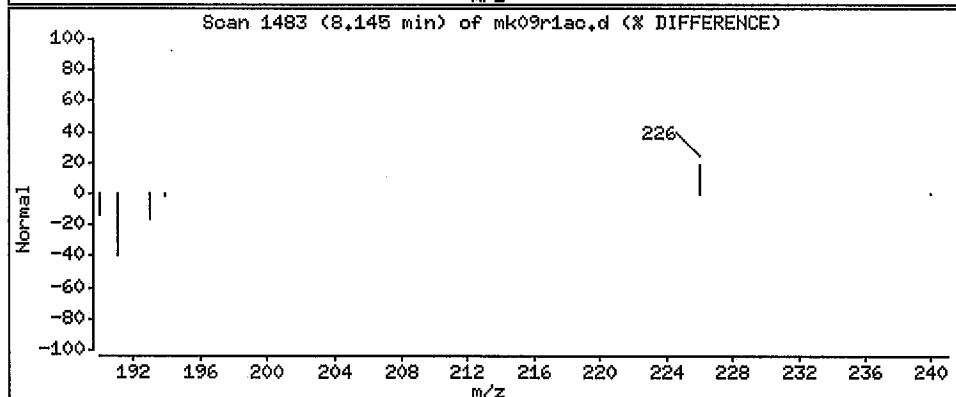
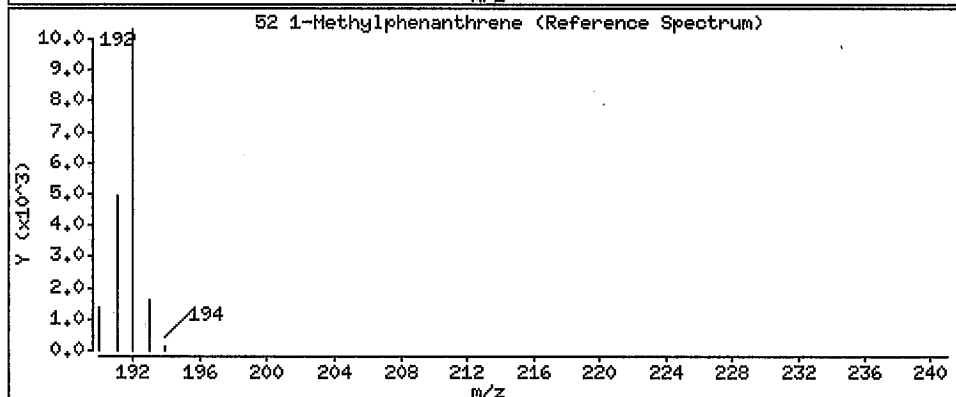
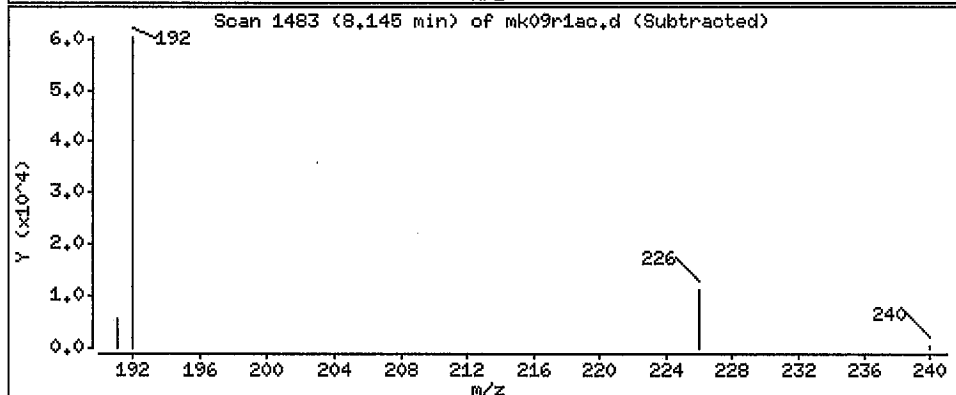
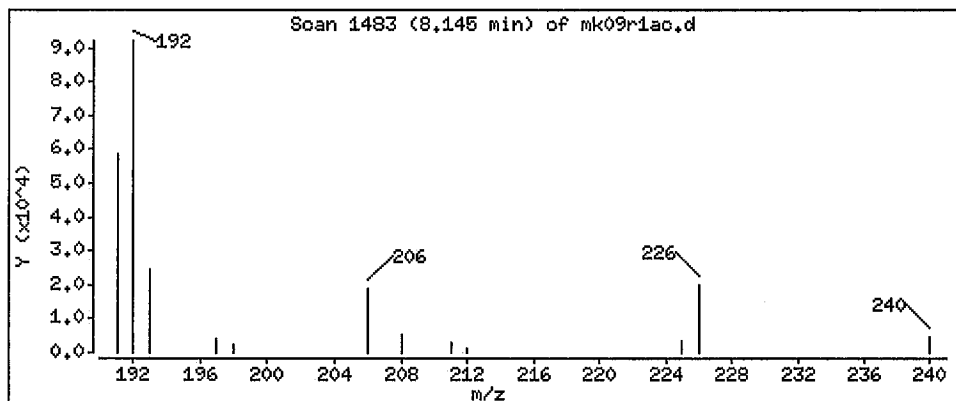
Operator: 11211

Column phase: Varian: 5MS

Column diameter: 0.25

52 1-Methylphenanthrene

Concentration: 124 ng/sample



Data File: /var/chem/gcms/mp.i/P072911.b/mk09r1ac.d

Date : 29-JUL-2011 16:43

Client ID: EXM-SRU-M0010-R3-C0

Instrument: mp.i

Sample Info: ,,0,,,

Purge Volume: 1.0

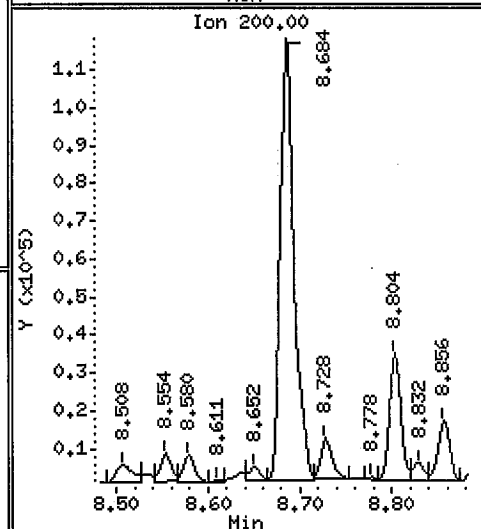
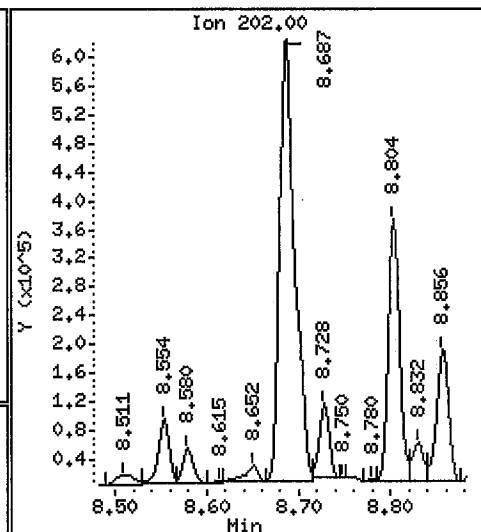
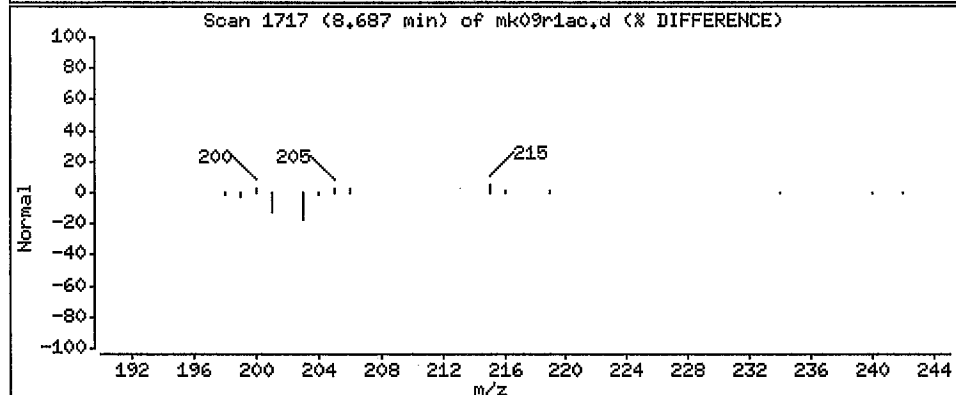
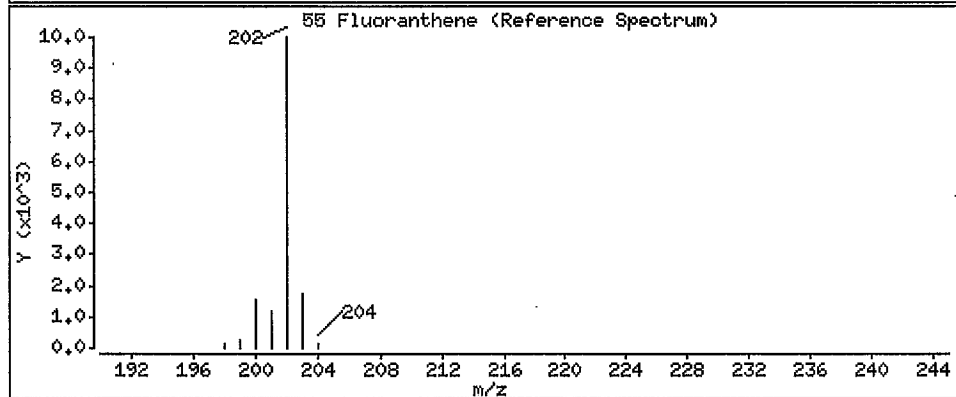
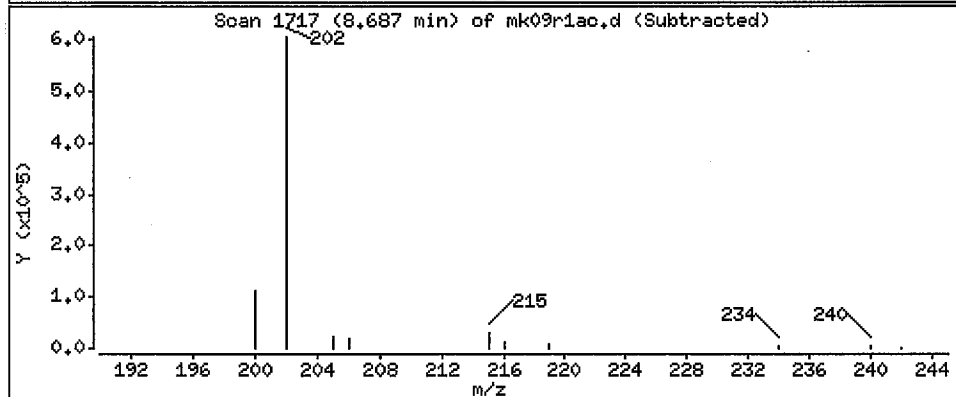
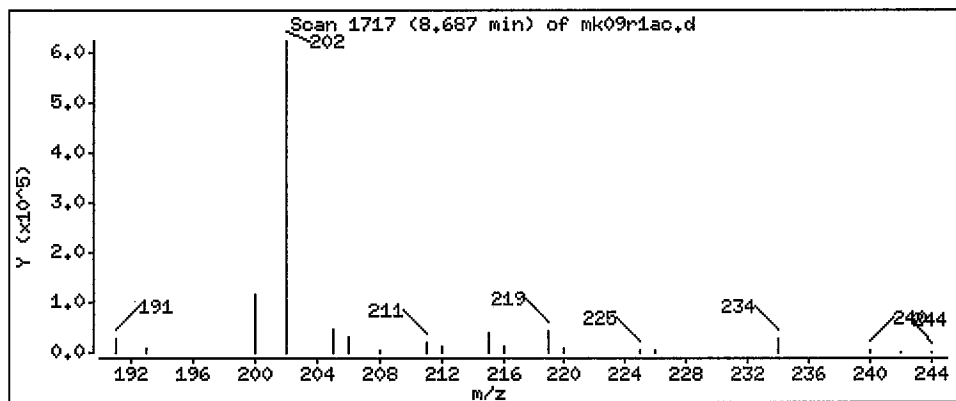
Operator: 11211

Column phase: Variant: 5MS

Column diameter: 0.25

55 Fluoranthene

Concentration: 615 ng/sample



EM-BTRF-001143

Data File: /var/chem/gcms/mp.i/P072911.b/mk09r1ao.d

Date : 29-JUL-2011 16:43

Client ID: EXH-SRU-M0010-R3-C0

Instrument: mp.i

Sample Info: ,,0,,

Purge Volume: 1.0

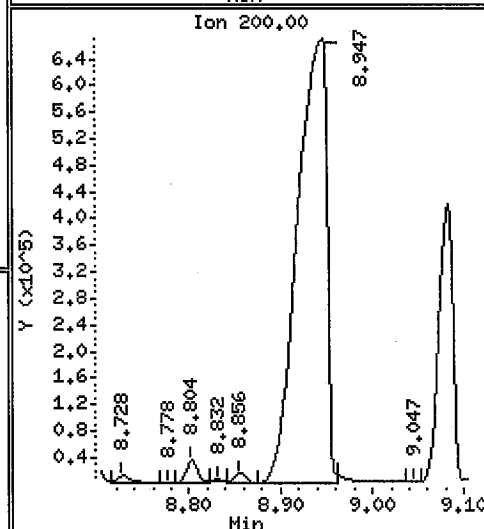
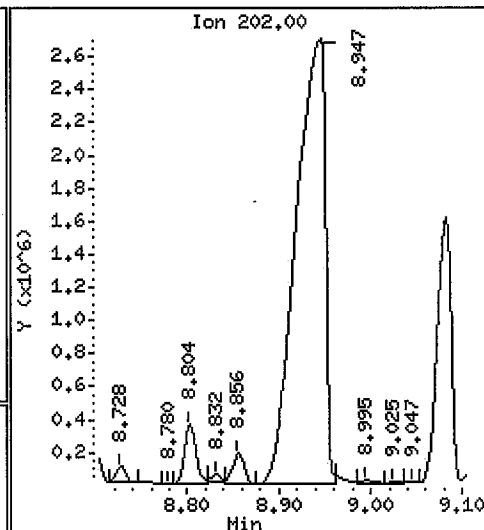
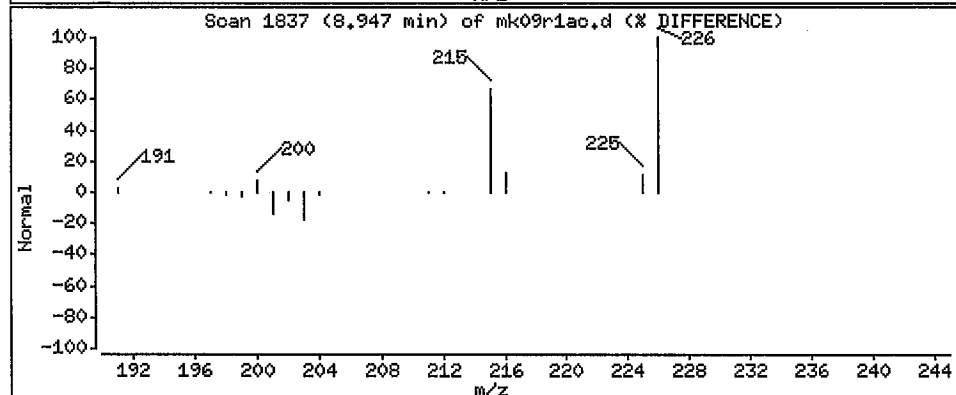
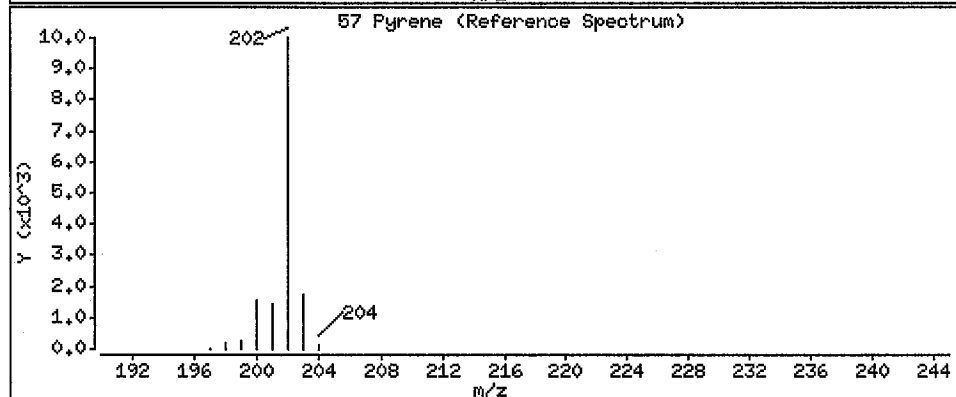
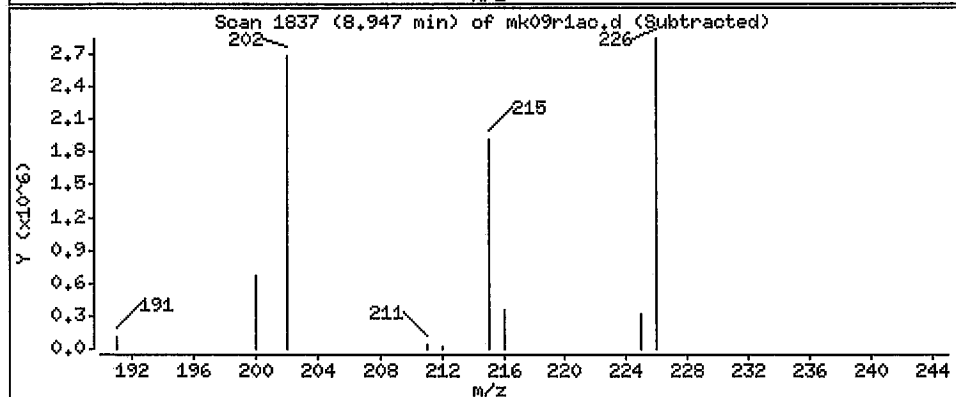
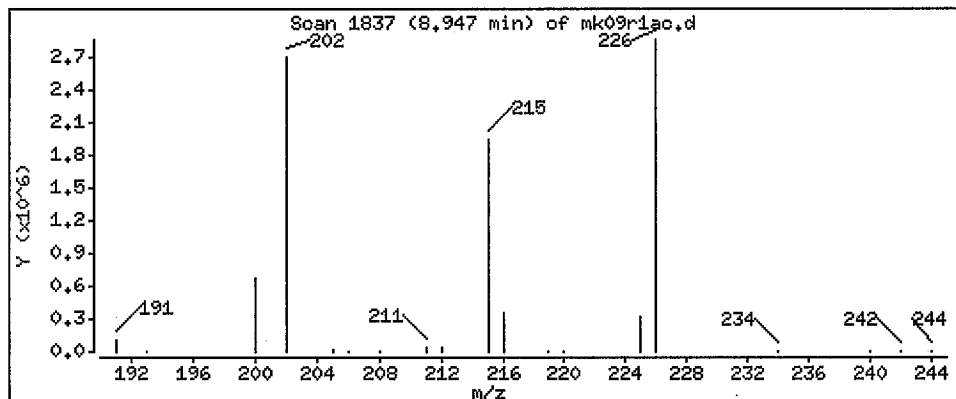
Operator: 11211

Column phase: Varian: 5MS

Column diameter: 0.25

57 Pyrene

Concentration: 5220 ng/sample



EM-BTRF-001144

Data File: /var/chem/gcms/mp.i/P072911.b/mk09r1ao.d

Date : 29-JUL-2011 16:43

Client ID: EXH-SRU-H0010-R3-C0

Instrument: mp.i

Sample Info: ,,0,,,

Purge Volume: 1.0

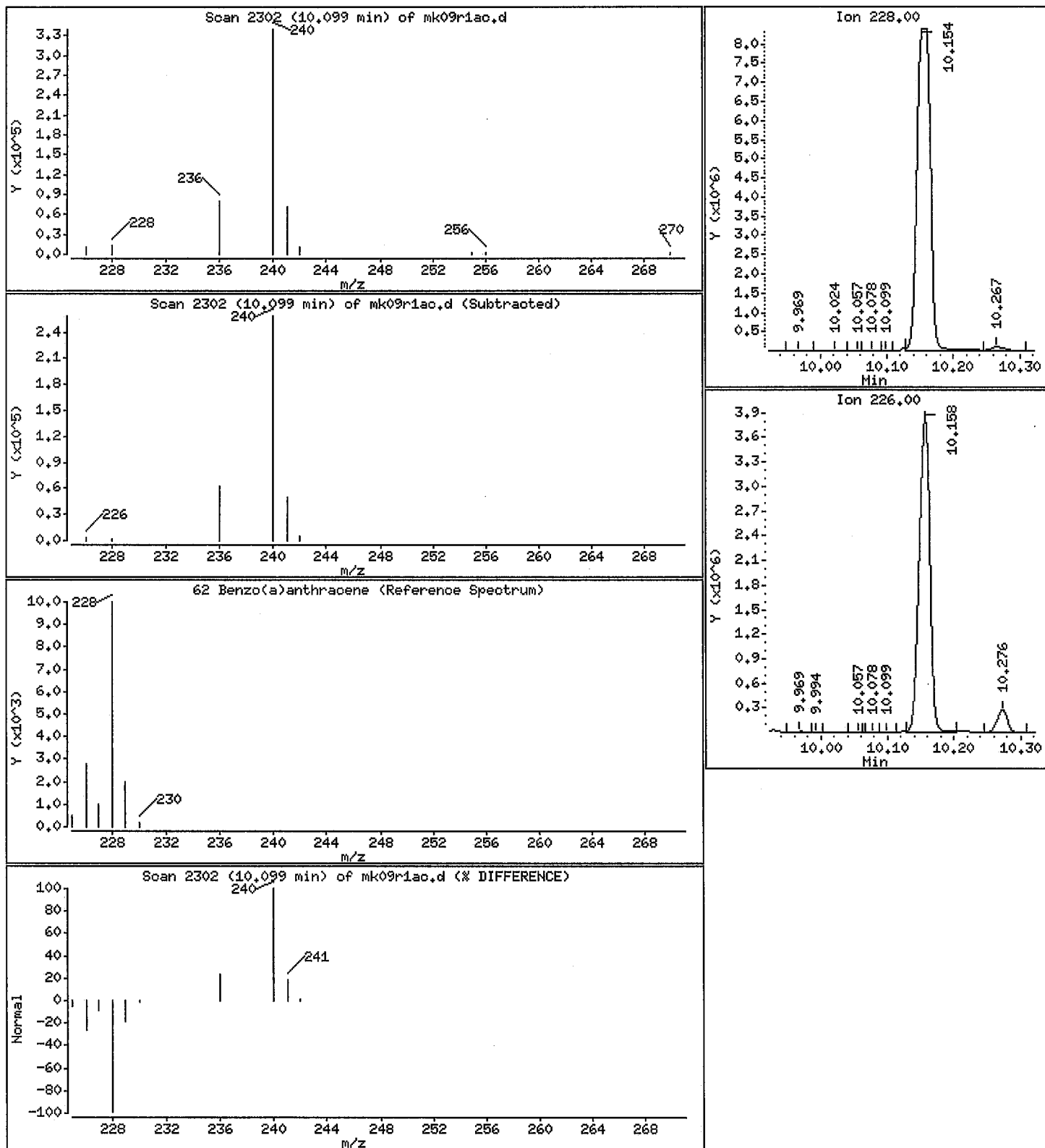
Operator: 11211

Column phase: Variant: SMS

Column diameter: 0,25

62 Benzo(a)anthracene

Concentration: 2,25 ng/sample



EM-BTRF-001145

Data File: /var/chem/gms/mp.i/P072911.b/mk09r1ao.d

Date : 29-JUL-2011 16:43

Client ID: EXM-SRU-M0010-R3-C0

Instrument: mp.i

Sample Info: ,,0,,,

Purge Volume: 1.0

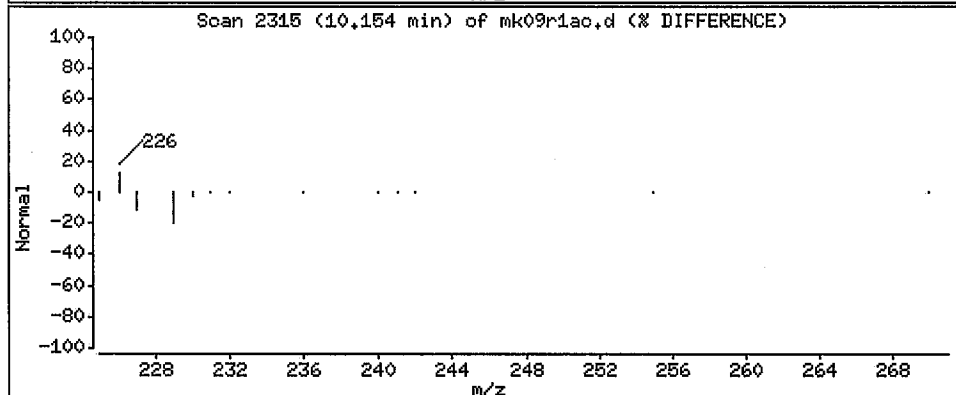
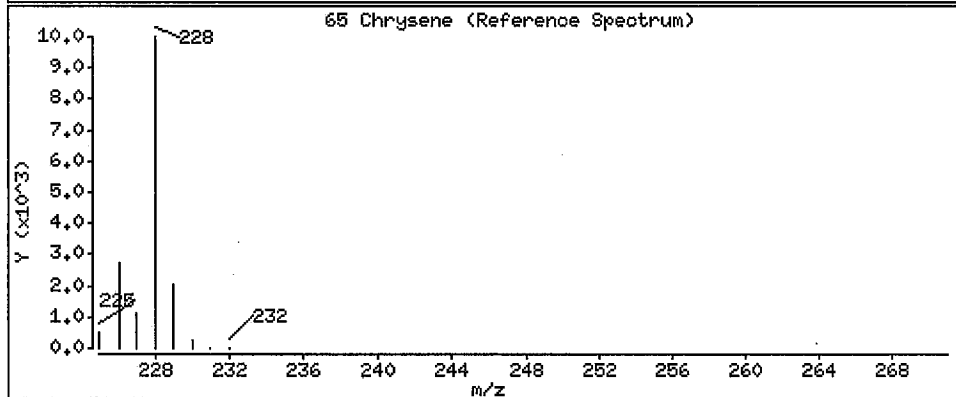
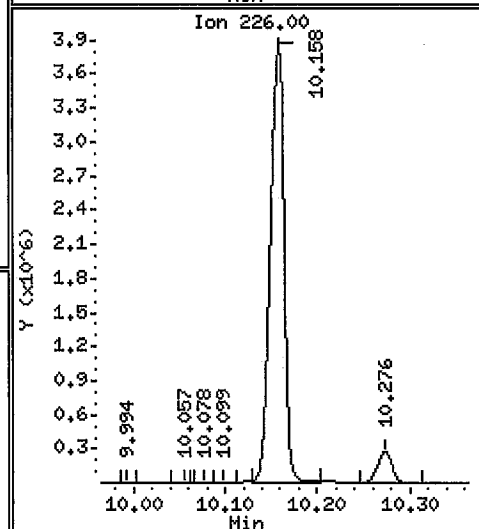
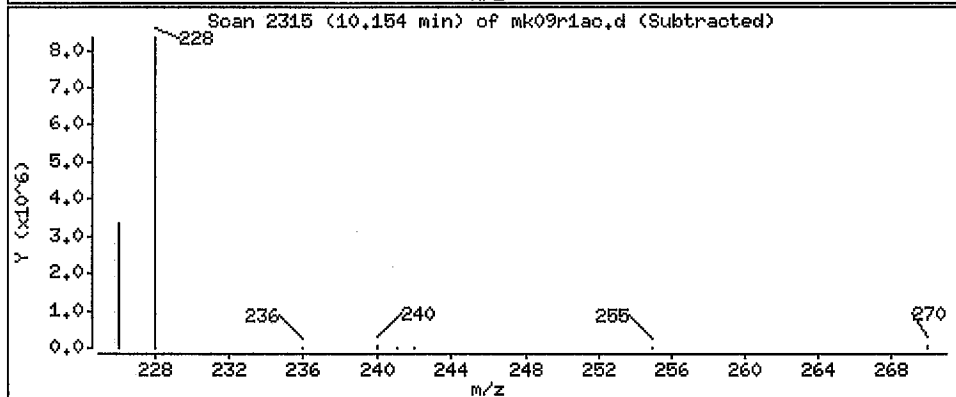
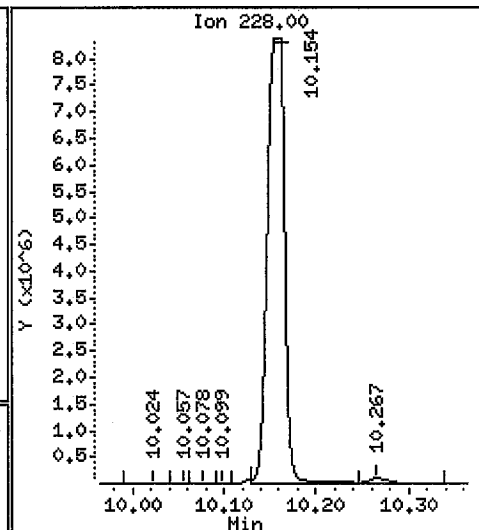
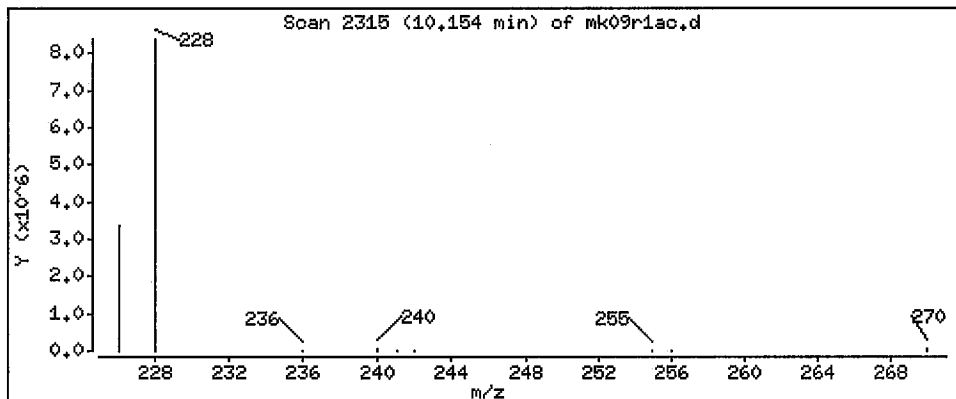
Operator: 11211

Column phase: Variant 5MS

Column diameter: 0.25

65 Chrysene

Concentration: 15500 ng/sample



EM-BTRF-001146

Data File: /var/chem/gcms/mp.i/P072911.b/mk09r1ao.d

Date : 29-JUL-2011 16:43

Client ID: EXM-SRU-M0010-R3-C0

Instrument: mp.i

Sample Info: ,0,,

Purge Volume: 1.0

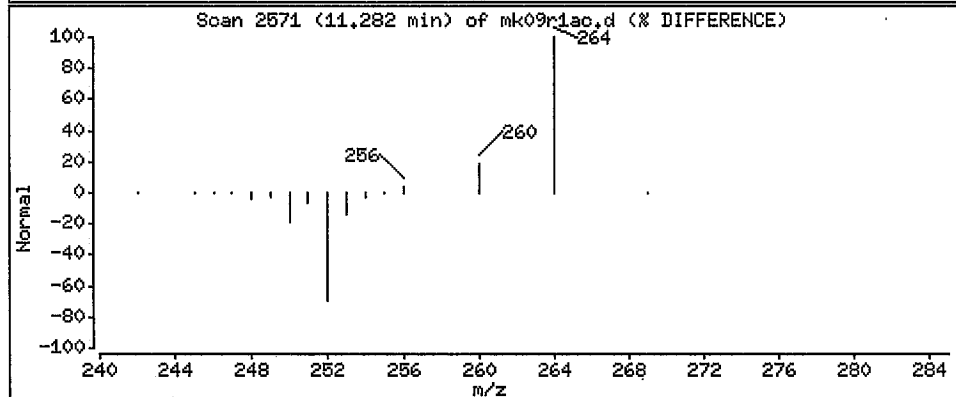
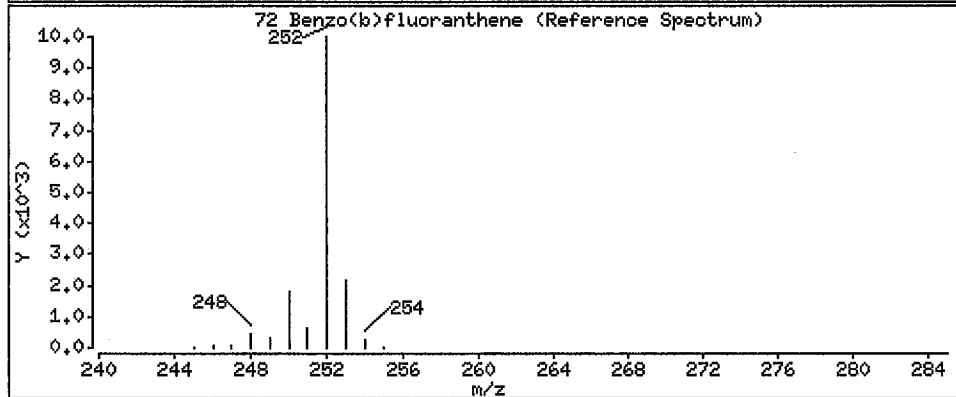
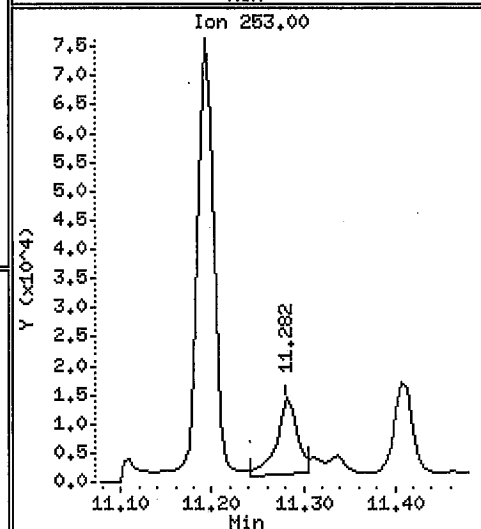
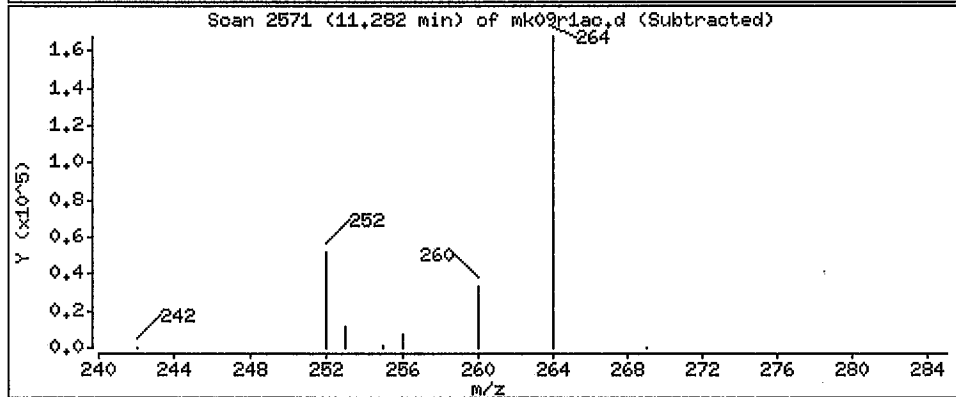
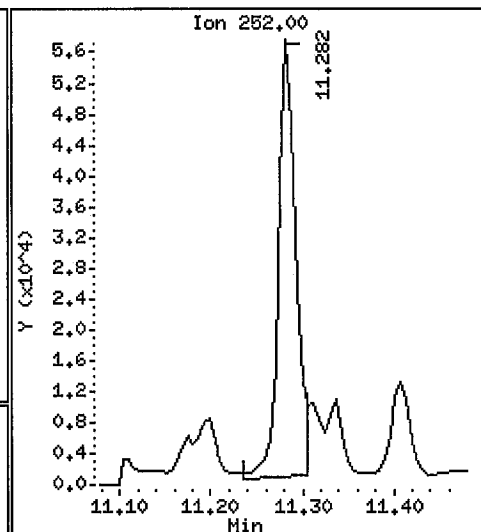
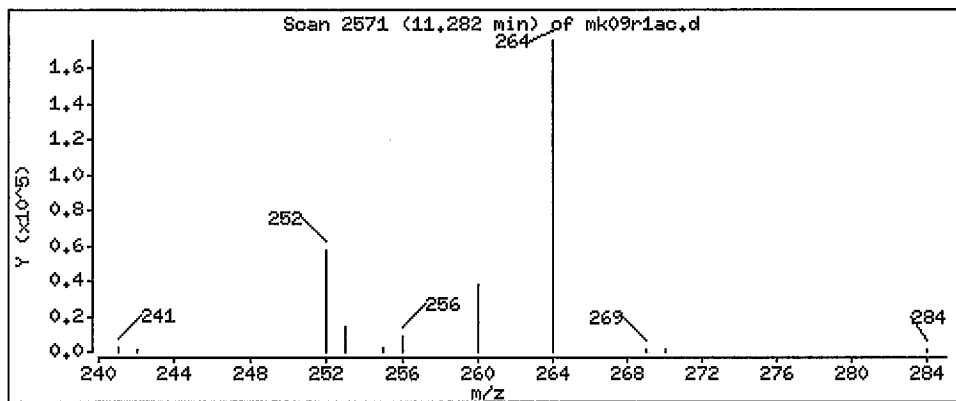
Operator: 11211

Column phase: Varian: 5MS

Column diameter: 0.25

72 Benzo(b)fluoranthene

Concentration: 71.8 ng/sample



EM-BTRF-001147

Data File: /var/chem/gcms/mp.i/P072911.b/mk09r1ao.d

Date : 29-JUL-2011 16:43

Client ID: EXH-SRU-M0010-R3-C0

Instrument: mp.i

Sample Info: ,,0,,,

Purge Volume: 1.0

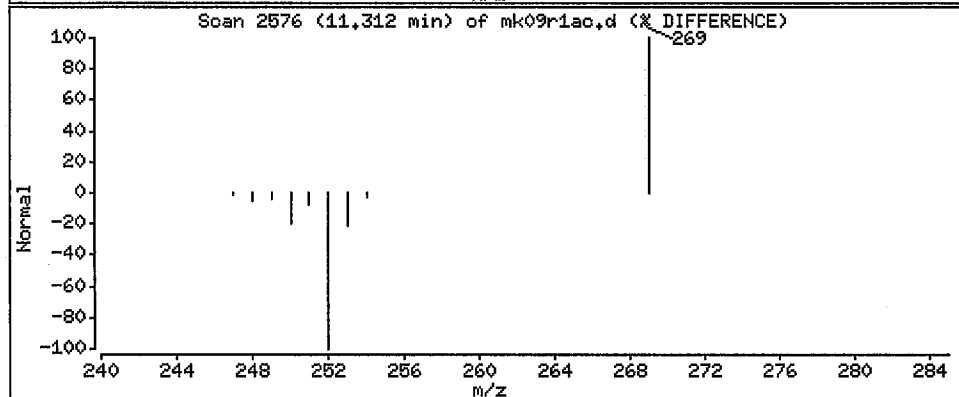
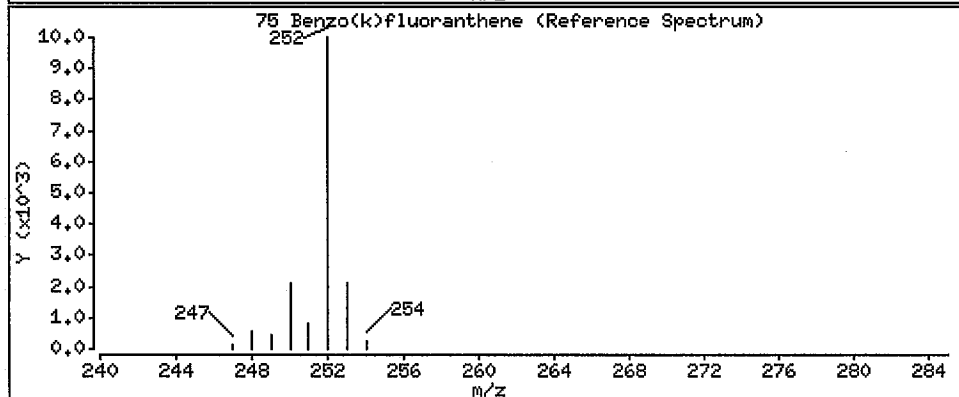
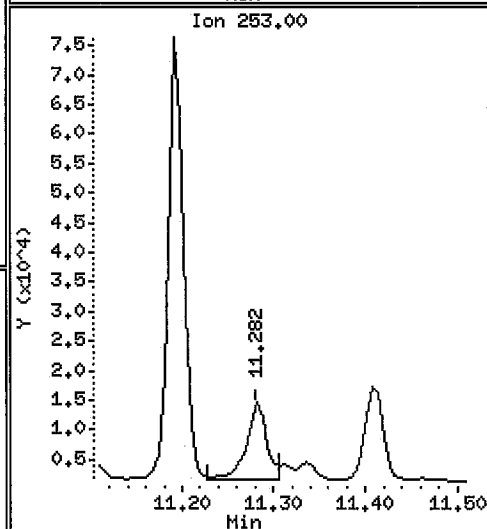
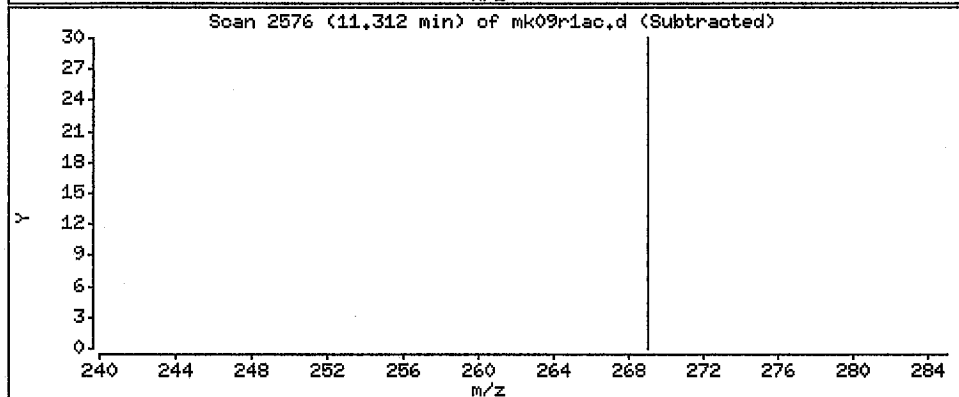
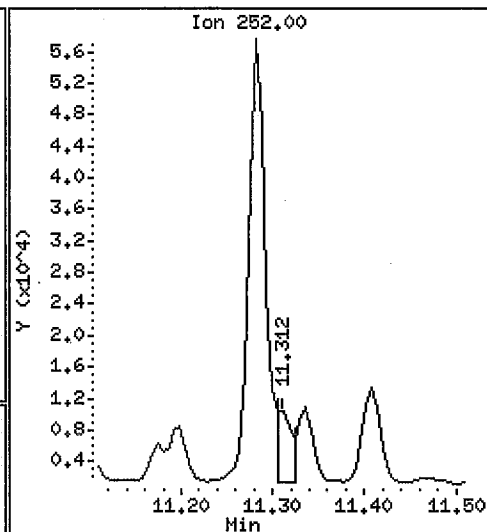
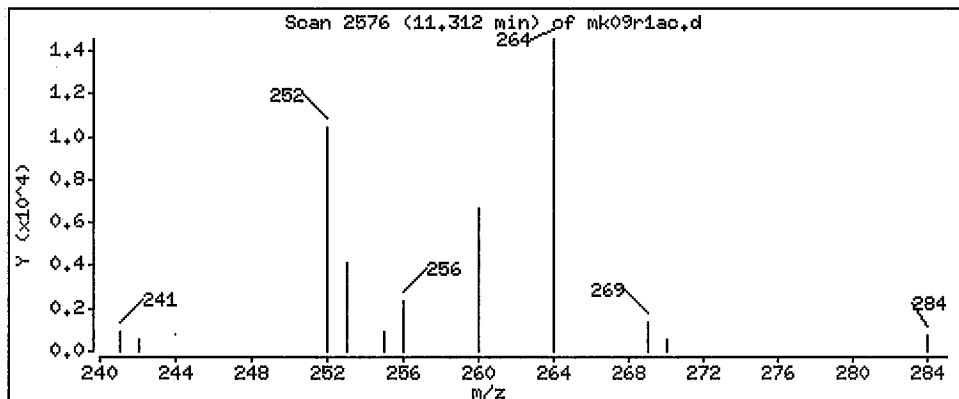
Operator: 11211

Column phase: Varian: 5MS

Column diameter: 0.25

75 Benzo(k)fluoranthene

Concentration: 15.0 ng/sample



EM-BTRF-001148

Data File: /var/chem/gcms/mp.i/P072911.b/mk09r1ac.d

Date : 29-JUL-2011 16:43

Client ID: EXM-SRU-M0010-R3-C0

Instrument: mp.i

Sample Info: ,,0,,,

Purge Volume: 1.0

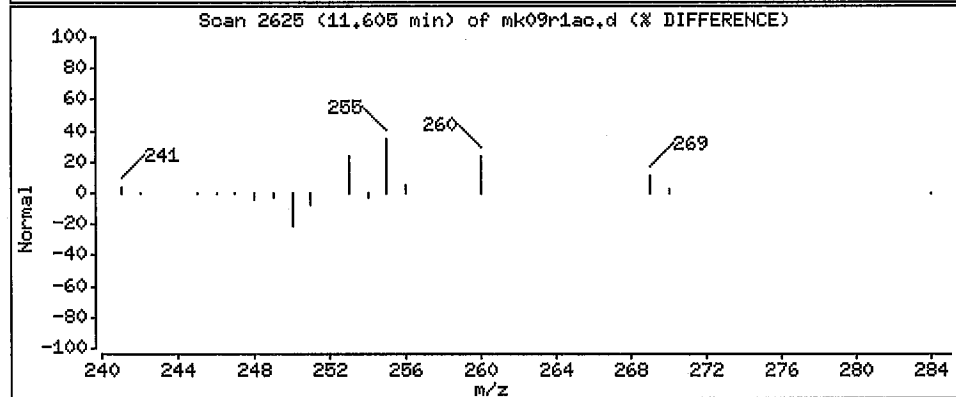
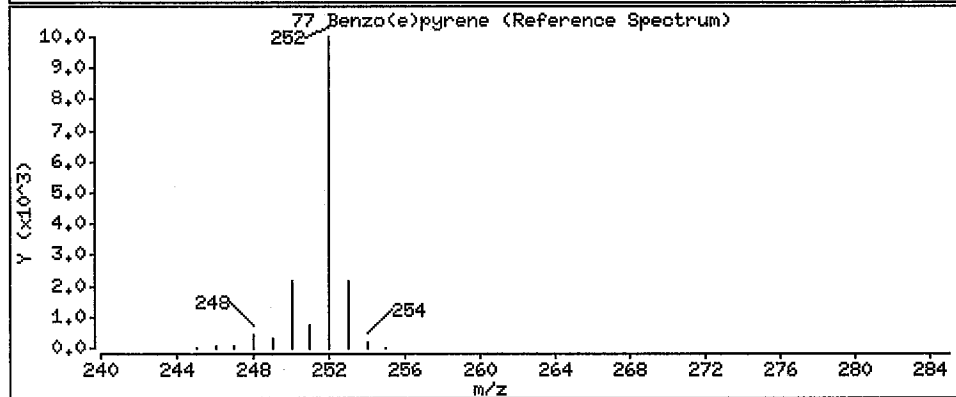
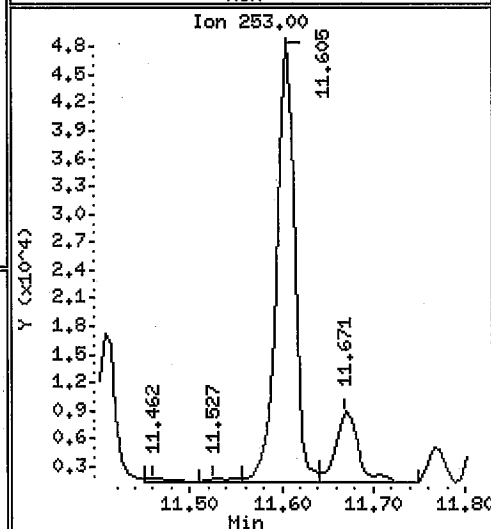
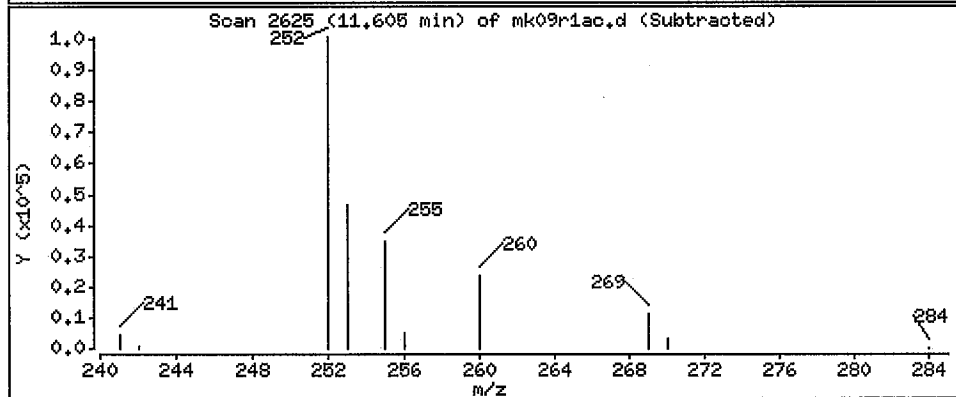
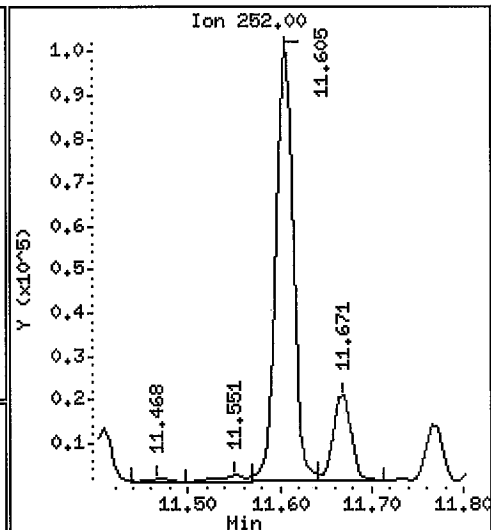
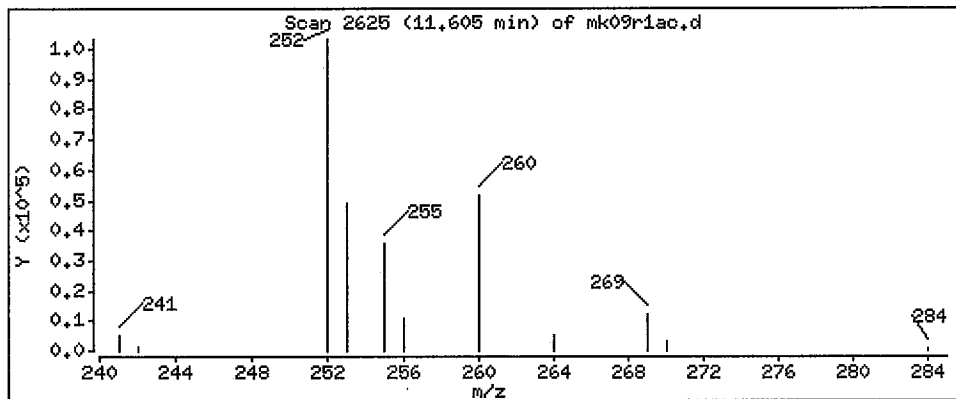
Operator: 11211

Column phase: Variant: 5MS

Column diameter: 0.25

77 Benzo(e)pyrene

Concentration: 138 ng/sample



EM-BTRF-001149

Data File: /var/chem/gcms/mp.i/P072911.b/mk09r1ao.d

Date : 29-JUL-2011 16:43

Client ID: EXM-SRU-H0010-R3-C0

Instrument: mp.i

Sample Info: ,,,0,,,

Purge Volume: 1.0

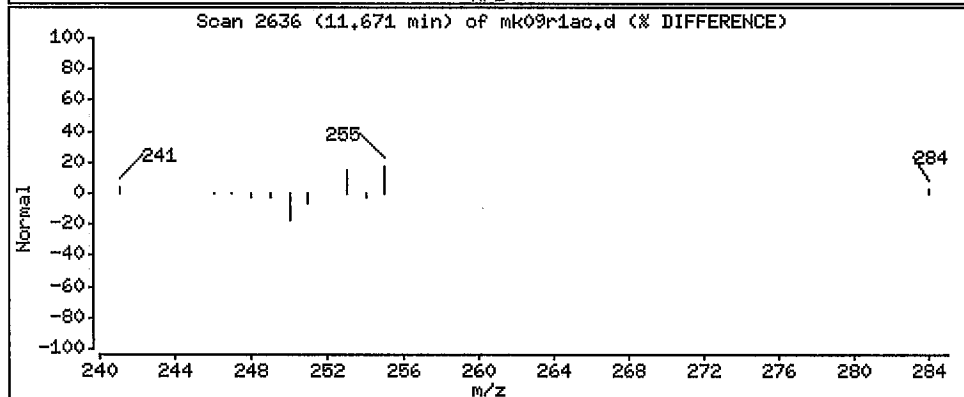
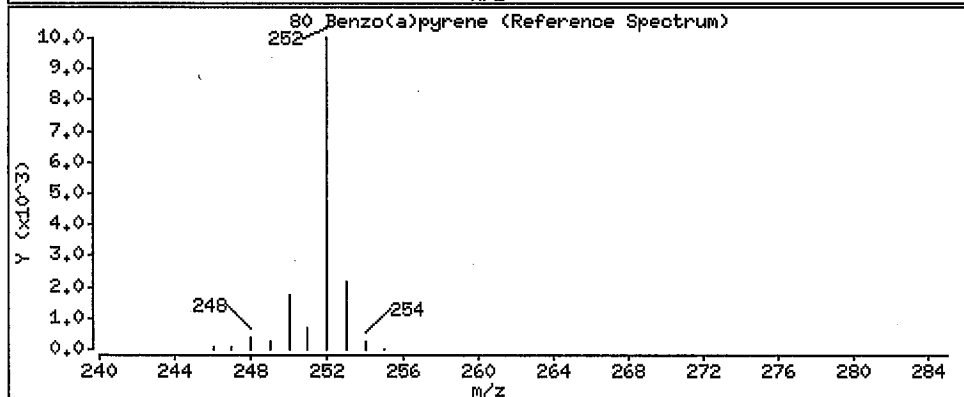
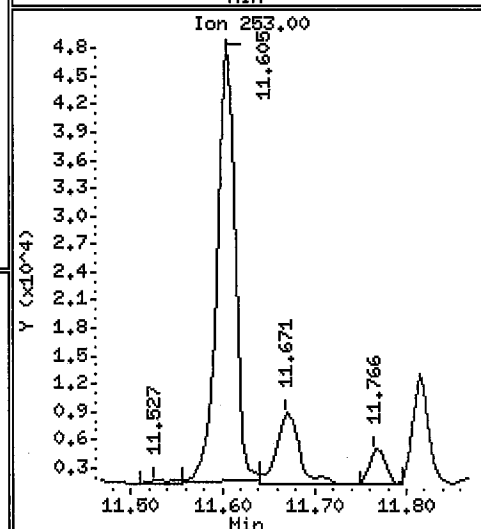
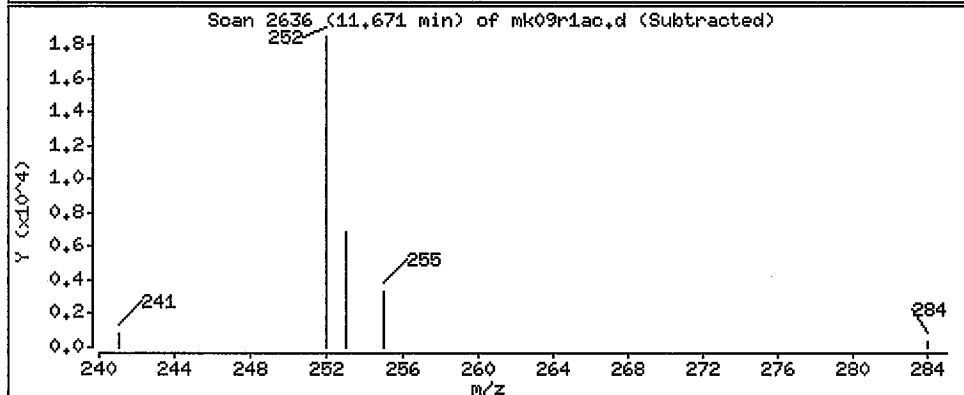
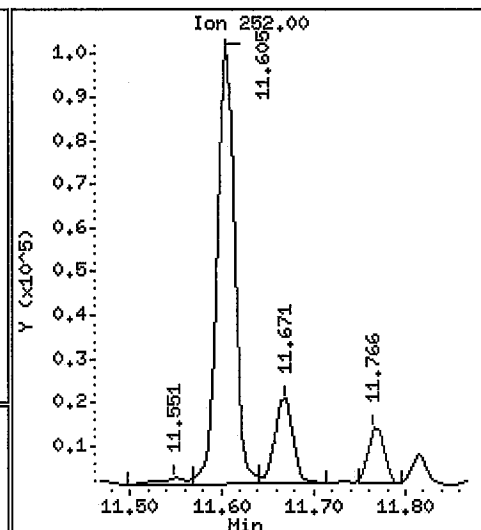
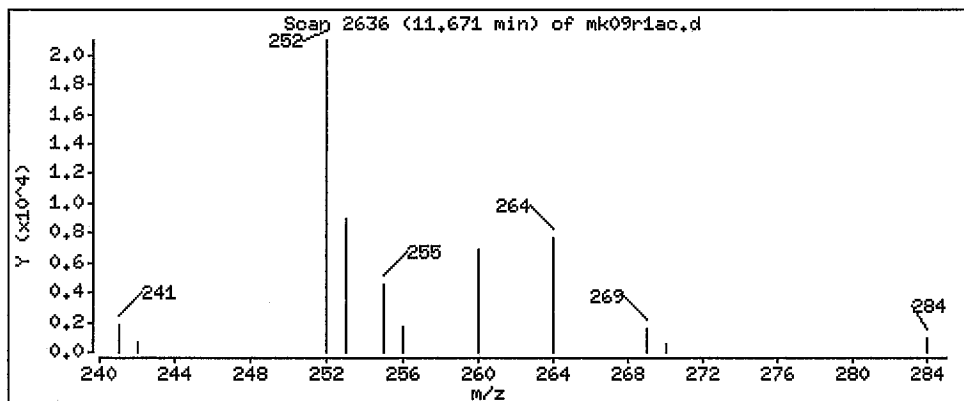
Operator: 11211

Column phase: Varian: 5MS

Column diameter: 0,25

80 Benzo(a)pyrene

Concentration: 34,1 ng/sample



EM-BTRF-001150

Data File: /var/chem/gcms/mp.i/P072911.b/mk09r1ao.d

Date : 29-JUL-2011 16:43

Client ID: EXM-SRU-H0010-R3-C0

Instrument: mp.i

Sample Info: ,,0,,,

Purge Volume: 1.0

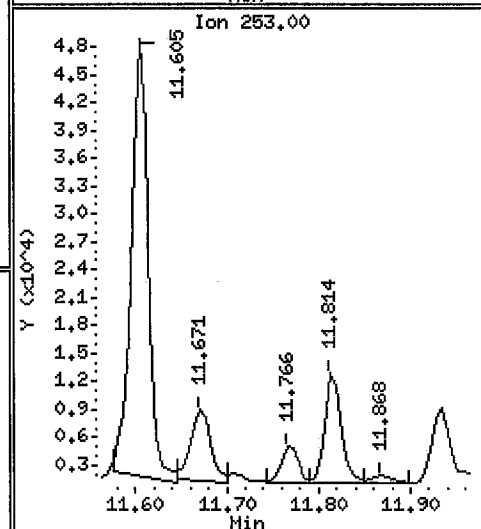
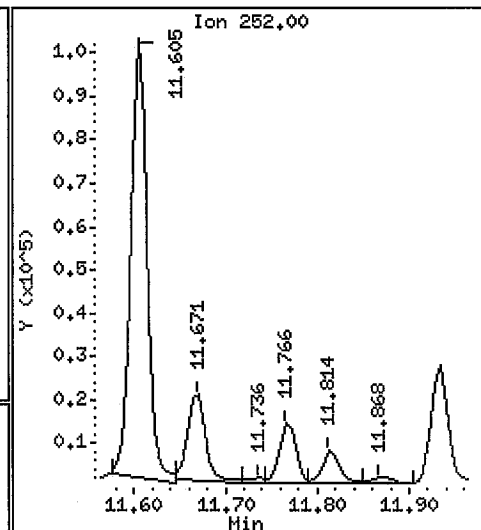
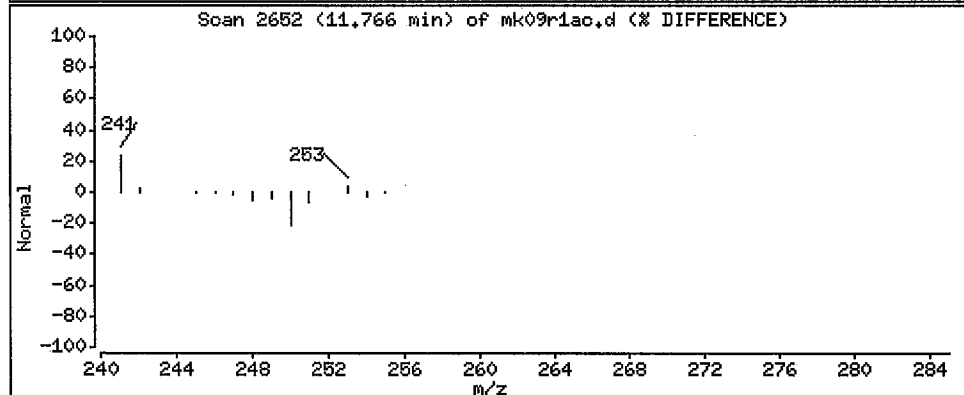
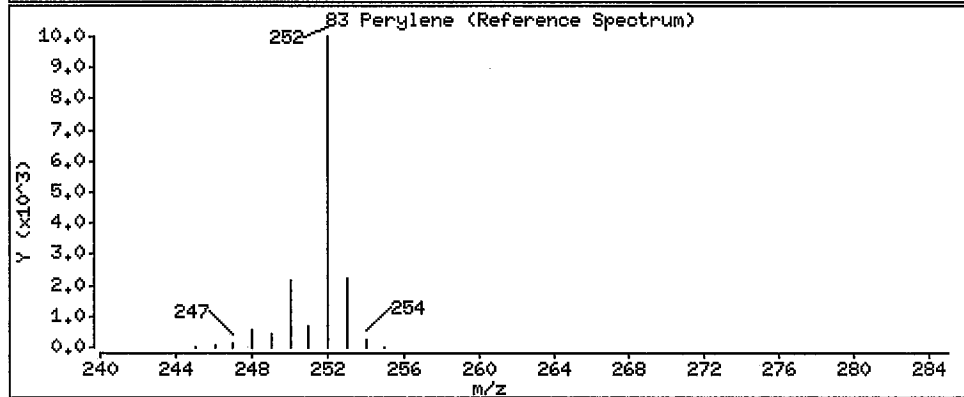
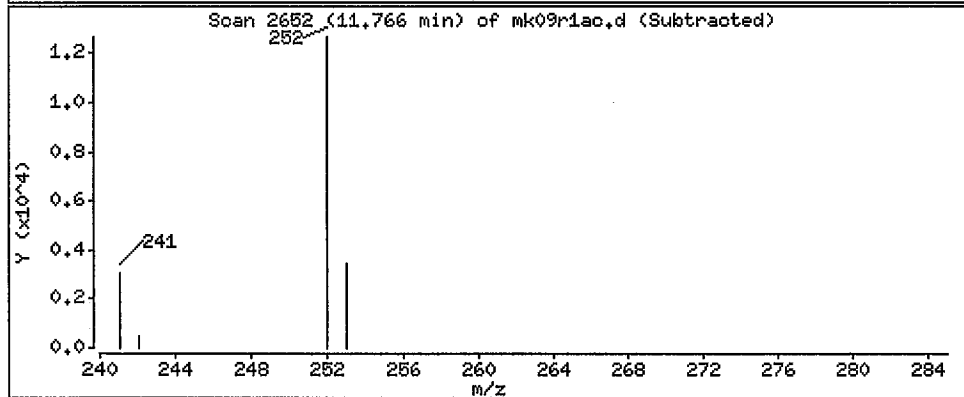
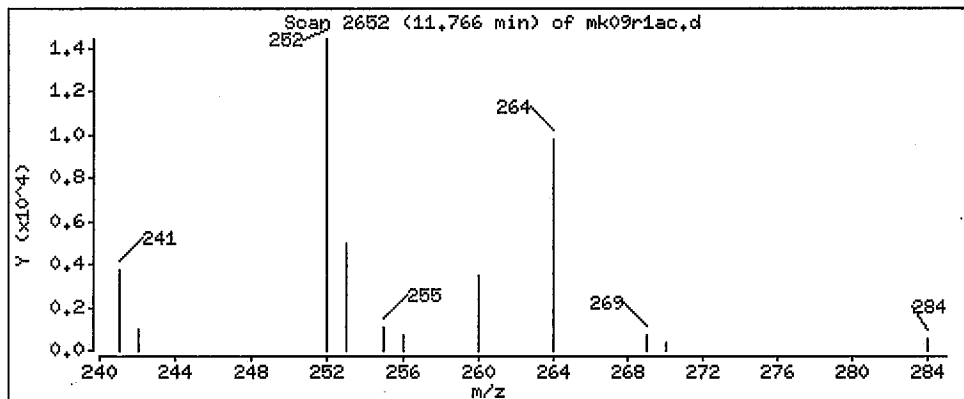
Operator: 11211

Column phase: Variant: 5MS

Column diameter: 0.25

83 Perylene

Concentration: 22.1 ng/sample



Data File: /var/chem/gcms/mp.i/P072911.b/mk09r1ao.d

Date : 29-JUL-2011 16:43

Client ID: EXM-SRU-M0010-R3-C0

Instrument: mp.i

Sample Info: ,,0,,,

Purge Volume: 1.0

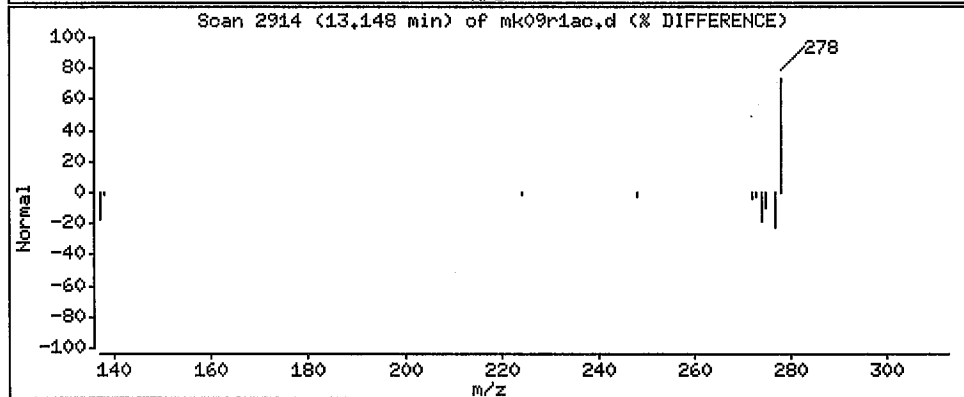
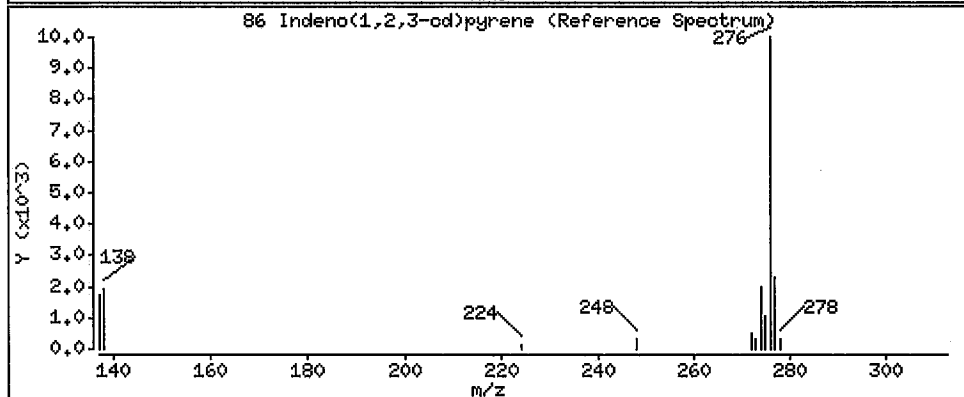
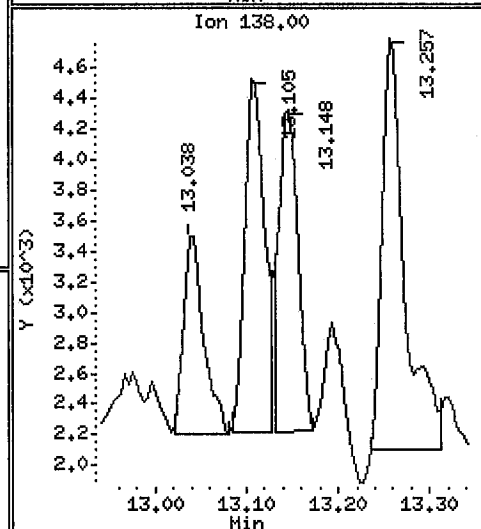
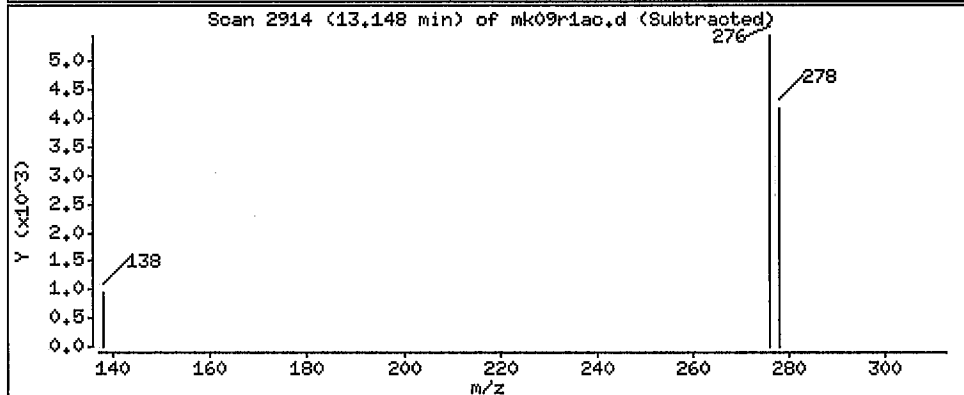
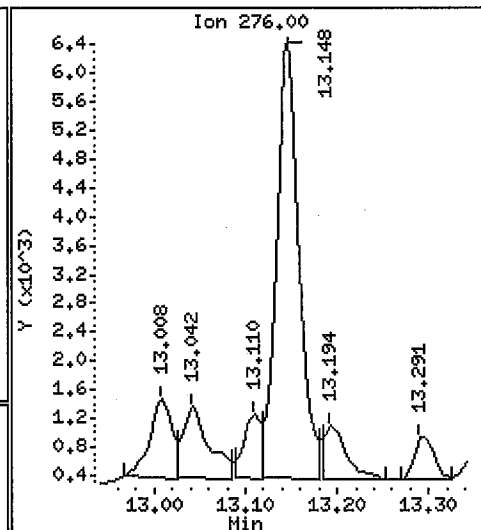
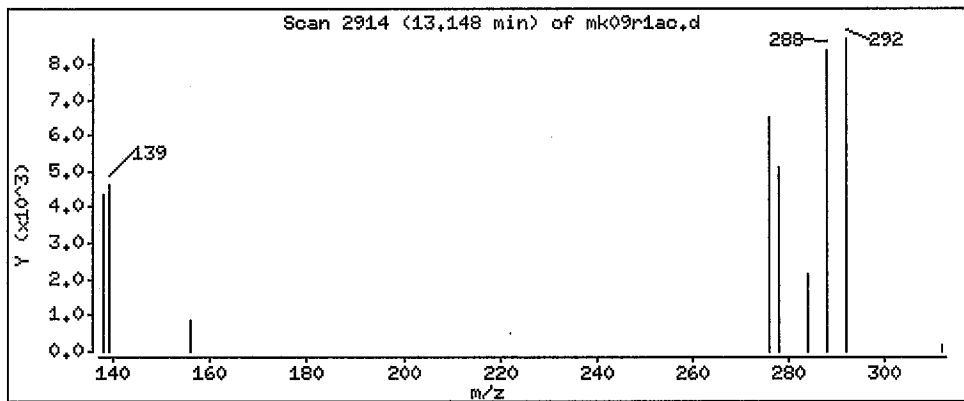
Operator: 11211

Column phase: Varian: 5MS

Column diameter: 0,25

86 Indeno(1,2,3-cd)pyrene

Concentration: 12,5 ng/sample



EM-BTRF-001152

Data File: /var/chem/gcms/mp.i/P072911.b/mk09r1ac.d

Date : 29-JUL-2011 16:43

Client ID: EXH-SRU-H0010-R3-C0

Instrument: mp.i

Sample Info: ,,,0,,,

Purge Volume: 1.0

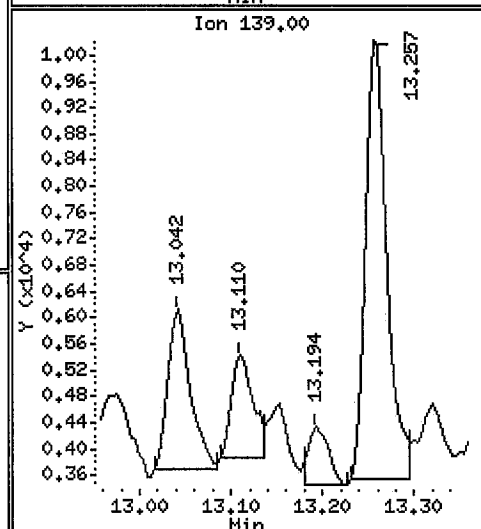
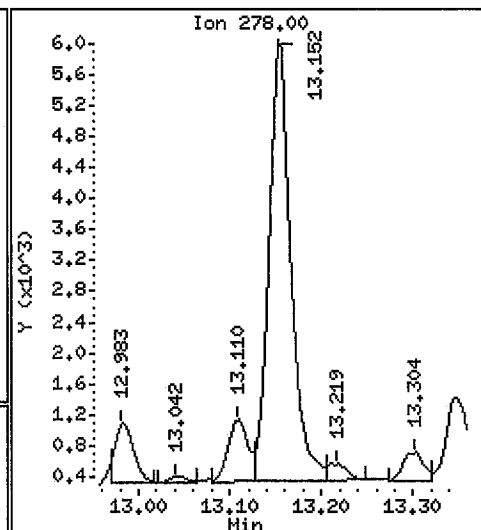
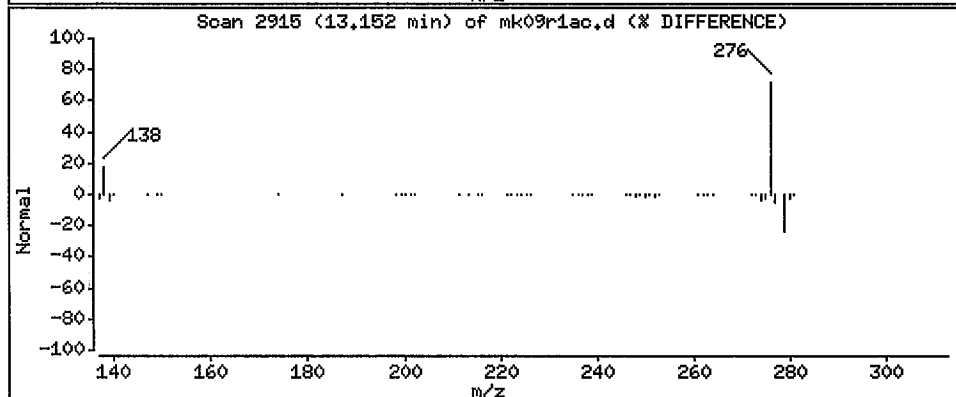
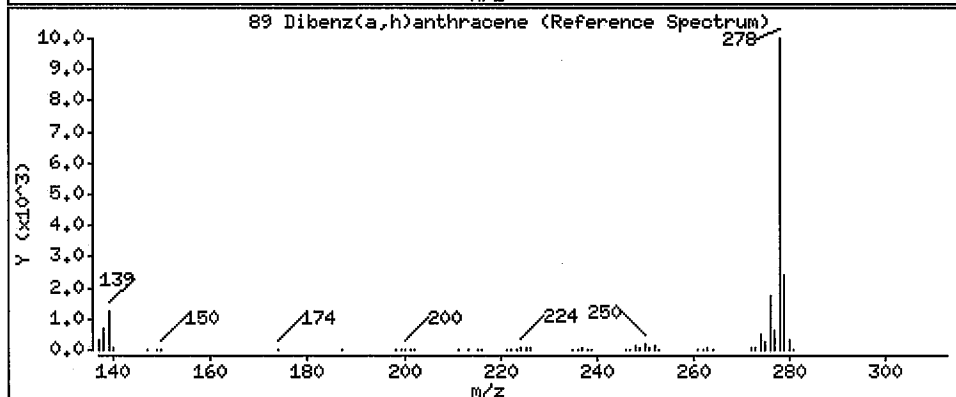
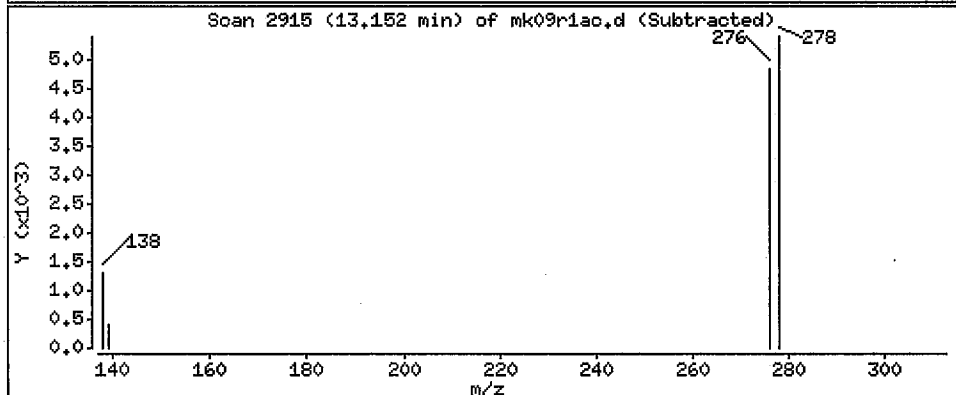
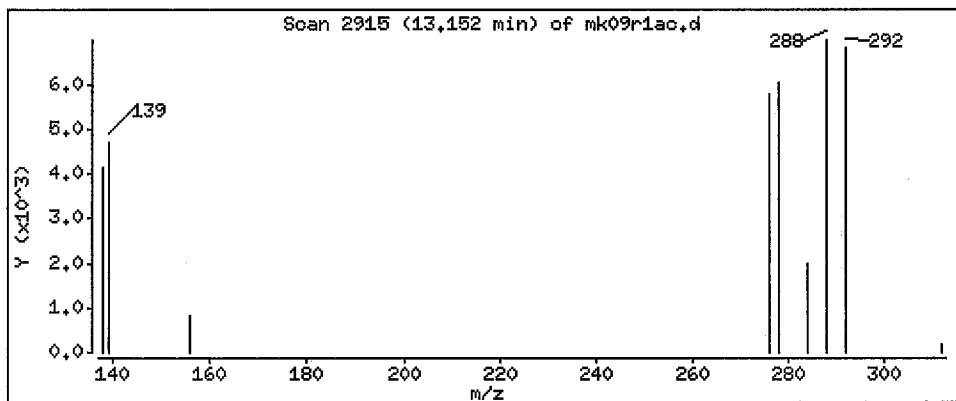
Operator: 11211

Column phase: Varian: 5MS

Column diameter: 0.25

89 Dibenz(a,h)anthracene

Concentration: 15.0 ng/sample



Data File: /var/chem/gcms/mp.i/P072911.b/mk09r1ac.d

Date : 29-JUL-2011 16:43

Client ID: EXM-SRU-M0010-R3-C0

Instrument: mp.i

Sample Info: ,0,,

Purge Volume: 1.0

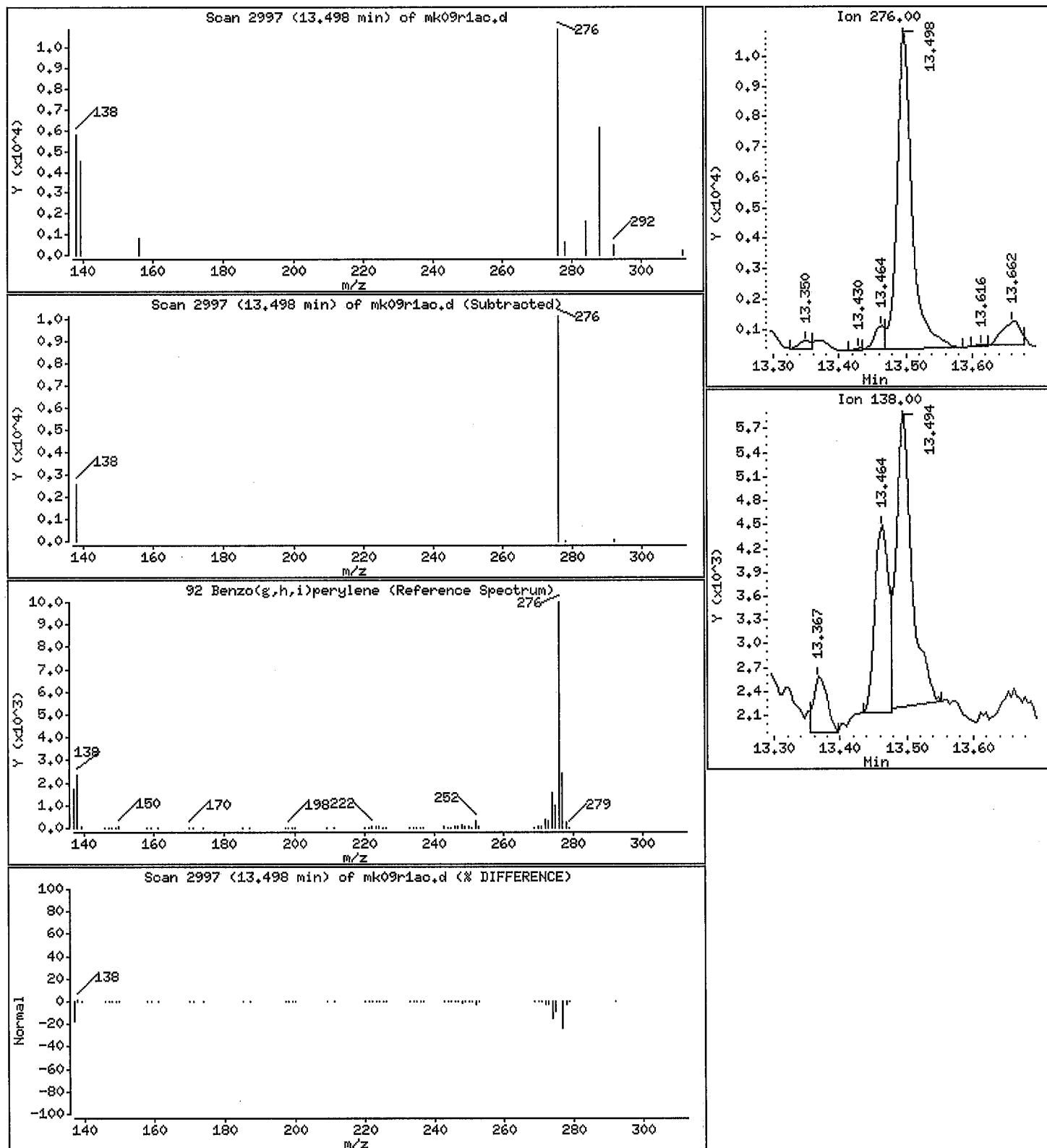
Operator: 11211

Column phase: Variant 5MS

Column diameter: 0.25

92 Benzo(g,h,i)perylene

Concentration: 25.1 ng/sample



EM-BTRF-001154

TRC Environmental Corporation

Client Sample ID: EXM-SRU-M0010-R3-COMBINED

GC/MS Semivolatiles

Lot-Sample #...: H1G190403-003 Work Order #...: MK09R2AC Matrix.....: AIR
 Date Sampled...: 07/08/11 Date Received...: 07/19/2011
 Prep Date.....: 07/20/11 Analysis Date...: 08/03/2011
 Prep Batch #...: 1201079
 Dilution Factor: 10 Method.....: KNOX ID-0016

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Chrysene	24000 D,CI	100	ng/sample	25
Naphthalene	19000 D	4000	ng/sample	2500
Phenanthrene	11000 D	300	ng/sample	240
Pyrene	9200 D,CI	600	ng/sample	360
Internal Standard		PERCENT RECOVERY	RECOVERY LIMITS	
Naphthalene-d8		80	(30 - 120)	
Phenanthrene-d10		82	(30 - 120)	
Fluoranthene-d10		96	(30 - 120)	
Chrysene-d12		83	(30 - 120)	

NOTE(S) :

 CI See narrative.

D Result was obtained from the analysis of a dilution.

Data File: /var/chem/gcms/mp.i/P080311.b/mk09r2ac.d
Report Date: 05-Aug-2011 10:43

TestAmerica Knoxville

SEMIVOLATILE QUANTITATION REPORT

Data file : /var/chem/gcms/mp.i/P080311.b/mk09r2ac.d
Lab Smp Id: MK09R2AC
Inj Date : 03-AUG-2011 14:43
Operator : 11211
Smp Info : MK09R2AC,,0,,D1:5
Misc Info : P080311,SIMPAH3
Comment :
Method : /var/chem/gcms/mp.i/P080311.b/SIMPAH3.m
Meth Date : 05-Aug-2011 09:34 cochranj Quant Type: ISTD
Cal Date : 01-AUG-2011 15:19 Cal File: ph01ic07.d
Als bottle: 6
Dil Factor: 1.00000
Integrator: HP RTE
Target Version: 3.50
Processing Host: qmidhp01

Inst ID: mp.i

Compound Sublist: pah.sub

Concentration Formula: Amt * DF * Sf*Vt/Vo * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Sf	2.00000	Split factor
Vt	500.00000	Volume of final extract (uL)
Vo	1.00000	Volume of sample extracted (sample)

Cpnd Variable

Local Compound Variable

25

CONCENTRATIONS

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/ml)	FINAL (ng/sample)
* 1 Naphthalene-d8	136	4.869	4.869	(1.000)	114932	0.50000	0.500
\$ 2 Naphthalene-d8 (SS)	136	4.869	4.869	(0.769)	114932	0.40018	400
3 Naphthalene	128	4.884	4.887	(1.003)	3710295	19.2552	19300
\$ 222 13C6-Naphthalene	134	4.869	4.887	(1.000)	9919	0.04671	46.7 (R)
* 10 2-Methylnaphthalene-d10	152	5.427	5.427	(1.000)	67057	0.50000	0.500
\$ 11 2-Methylnaphthalene-d10 (SS)	152	5.427	5.427	(0.857)	67057	0.42956	430
12 2-Methylnaphthalene	142	5.454	5.454	(1.005)	127006	0.94487	945
* 13 1-Methylnaphthalene-d10	152	5.510	5.510	(1.000)	65124	0.50000	0.500
\$ 14 1-Methylnaphthalene-d10 (SS)	152	5.510	5.510	(0.870)	65124	0.41932	419
15 1-Methylnaphthalene	142	5.536	5.536	(1.005)	60911	0.48240	482
16 Biphenyl	154	5.840	5.840	(1.076)	2048712	12.7979	12800
* 17 2,6-Dimethylnaphthalene-d12	168	5.940	5.937	(1.000)	60666	0.50000	0.500
\$ 18 2,6-Dimethylnaph-d12 (SS)	168	5.940	5.937	(0.938)	60666	0.45353	454
19 2,6 Dimethylnaphthalene	156	5.981	5.974	(1.007)	18985	0.15744	157

K/6/5/11

Data File: /var/chem/gcms/mp.i/P080311.b/mk09r2ac.d
Report Date: 05-Aug-2011 10:43

Compounds	QUANT SIG	MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN	FINAL
							(ug/ml)	(ng/sample)
=====	=====	=====	=====	=====	=====	=====	=====	=====
* 20 Acenaphthylene-d8		160	6.199	6.196	(1.000)	101921	0.50000	0.500
\$ 21 Acenaphthylene-d8 (SS)		160	6.199	6.196	(0.979)	101921	0.45248	452
22 Acenaphthylene		152	6.211	6.208	(1.002)	3824	0.01895	19.0
* 23 Acenaphthene-d10		164	6.330	6.327	(1.000)	61974	0.50000	0.500
24 Acenaphthene		154	6.356	6.353	(1.025)	37102	0.31223	312
25 2,3,5 Trimethylnaphthalene		170	6.674	6.674	(1.124)	8958	0.08735	87.4
\$ 26 Fluorene-d10		176	6.763	6.763	(0.892)	121653	1.12814	1130
27 Fluorene		166	6.786	6.788	(0.895)	336626	2.42900	2430
\$ 28 13C6-Fluorene		171	6.786	6.786	(0.895)	125324	1.04794	1050
* 34 Dibenzothiophene-d8		192	7.478	7.478	(1.000)	108045	0.50000	0.500
\$ 35 Dibenzothiophene-d8 (SS)		192	7.478	7.478	(0.841)	108045	0.44534	445
36 Dibenzothiophene		184	7.493	7.495	(1.002)	1812465	8.82150	8820
* 41 Phenanthrene-d10		188	7.582	7.582	(1.000)	90170	0.50000	0.500
\$ 42 Phenanthrene-d10 (SS)		188	7.582	7.582	(0.853)	90170	0.41117	411
43 Phenanthrene		178	7.603	7.603	(1.003)	2236661	11.3795	11400
* 44 Anthracene-d10		188	7.632	7.632	(1.000)	84645	0.50000	0.500
\$ 45 Anthracene-d10 (SS)		188	7.632	7.632	(0.858)	84645	0.44711	447
46 Anthracene		178	7.646	7.648	(1.002)	43610	0.20629	206
\$ 47 13C6-Anthracene		184	7.646	7.646	(0.860)	81418	0.40779	408
52 1-Methylphenanthrene		192	8.148	8.150	(1.075)	12488	0.10320	103
* 53 Fluoranthene-d10		212	8.672	8.672	(1.000)	100470	0.50000	0.500
\$ 54 Fluoranthene-d10 (SS)		212	8.672	8.672	(0.975)	100470	0.48059	481
55 Fluoranthene		202	8.689	8.687	(1.002)	137564	0.61883	619
* 56 Pyrene-d10		212	8.891	8.891	(1.000)	85204	0.50000	0.500
57 Pyrene		202	8.928	8.908	(1.030)	2166386	9.22208	9220
\$ 58 Terphenyl-d14		244	9.049	9.050	(1.044)	147910	1.47560	1480 (R)
* 60 Benzo(a) anthracene-d12		240	10.108	10.108	(1.000)	66825	0.50000	0.500
\$ 61 Benzo(a) anthracene-d12 (SS)		240	10.108	10.108	(1.137)	66825	0.62037	620 (R)
62 Benzo(a) anthracene		228	10.154	10.129	(1.005)	3759908	18.9030	18900
* 63 Chrysene-d12		240	10.141	10.142	(1.000)	70793	0.50000	0.500
\$ 64 Chrysene-d12 (SS)		240	10.141	10.142	(1.141)	70793	0.41493	415
65 Chrysene		228	10.154	10.167	(1.001)	3763686	24.1710	24200
* 70 Benzo(b) fluoranthene-d12		264	11.265	11.259	(1.000)	61122	0.50000	0.500
\$ 71 Benzo(b) fluoranthene-d12 (SS)		264	11.265	11.259	(0.973)	61122	0.50318	503
72 Benzo(b) fluoranthene		252	11.288	11.289	(1.002)	14758	0.08698	87.0
* 73 Benzo(k) fluoranthene-d12		264	11.294	11.295	(1.000)	74124	0.50000	0.500
\$ 74 Benzo(k) fluoranthene-d12 (SS)		264	11.294	11.295	(0.975)	74124	0.43619	436
75 Benzo(k) fluoranthene		252	11.336	11.319	(1.004)	3042	0.01858	18.6 SKR
* 76 Benzo(e) pyrene-d12		264	11.581	11.581	(1.000)	57034	0.50000	0.500
77 Benzo(e) pyrene		252	11.611	11.611	(0.997)	24253	0.16389	164
* 78 Benzo(a) pyrene-d12		264	11.647	11.647	(1.000)	57761	0.50000	0.500
\$ 79 Benzo(a) pyrene-d12 (SS)		264	11.647	11.647	(1.006)	57761	0.45909	459
80 Benzo(a) pyrene		252	11.677	11.671	(1.003)	4693	0.03685	36.9
* 81 Perylene-d12		264	11.743	11.743	(1.000)	53279	0.50000	0.500
\$ 82 Perylene-d12 (SS)		264	11.743	11.743	(1.014)	53279	0.43716	437
83 Perylene		252	11.772	11.773	(1.003)	2781	0.02091	20.9
* 84 Indeno(123-cd) pyrene-d12		288	13.118	13.118	(1.000)	64423	0.50000	0.500

Data File: /var/chem/gcms/mp.i/P080311.b/mk09r2ac.d
 Report Date: 05-Aug-2011 10:43

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN	FINAL
	MASS					(ug/ml)	(ng/sample)
=====	=====	==	=====	=====	=====	=====	=====
\$ 85 Indeno(123-cd)pyrene-d12 (SS)	288	13.118	13.118	(1.133)	64423	0.46803	468
86 Indeno(1,2,3-cd)pyrene	276	13.156	13.152	(1.003)	1336	0.00879	8.79
* 87 Dibenz(ah)anthracene-d14	292	13.122	13.123	(1.000)	47404	0.50000	0.500
\$ 88 Dibenz(ah)anthracene-d14 (SS)	292	13.122	13.123	(1.133)	47404	0.45598	456
89 Dibenz(a,h)anthracene	278	13.165	13.169	(1.003)	1698	0.01495	15.0
* 90 Benzo(ghi)perylene-d12	288	13.473	13.469	(1.000)	45456	0.50000	0.500
\$ 91 Benzo(ghi)perylene-d12 (SS)	288	13.473	13.469	(1.163)	45456	0.44126	441
92 Benzo(g,h,i)perylene	276	13.506	13.502	(1.002)	3056	0.02476	24.8

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

Data File: /var/chem/gcms/mp.i/P080311.b/mk09r2ac.d
 Report Date: 05-Aug-2011 11:08

TestAmerica Knoxville

SEMIVOLATILE QUANTITATION REPORT

Data file : /var/chem/gcms/mp.i/P080311.b/mk09r2ac.d
 Lab Smp Id: MK09R2AC
 Inj Date : 03-AUG-2011 14:43
 Operator : 11211
 Smp Info : MK09R2AC,,0,,D1:5
 Misc Info : P080311,SIMPAH3
 Comment :
 Method : /var/chem/gcms/mp.i/P080311.b/SIMPAH3.m
 Meth Date : 05-Aug-2011 09:34 cochranj Quant Type: ISTD
 Cal Date : 01-AUG-2011 15:19 / Cal File: ph01ic07.d
 Als bottle: 6
 Dil Factor: 1.00000
 Integrator: HP RTE
 Target Version: 3.50
 Processing Host: qmidhp01

Inst ID: mp.i

Compound Sublist: pah.sub

Concentration Formula: Amt * DF * Sf*Vt/Vo * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Sf	2.00000	Split factor
Vt	500.00000	Volume of final extract (uL)
Vo	1.00000	Volume of sample extracted (sample)

Cpnd Variable

Local Compound Variable

*5 x bench dil
7/28/11*

		CONCENTRATIONS					
		QUANT	SIG				
Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/ml)	FINAL (ng/sample)
=====	=====	==	=====	=====	=====	=====	=====
* 1 Naphthalene-d8	136	4.869	4.869	(1.000)	114932	0.50000	0.500
\$ 2 Naphthalene-d8 (SS)	136	4.869	4.869	(0.769)	114932	0.40018	400
3 Naphthalene	128	4.884	4.887	(1.003)	3710295	19.2552	19300
* 10 2-Methylnaphthalene-d10	152	5.427	5.427	(1.000)	67057	0.50000	0.500
\$ 11 2-Methylnaphthalene-d10 (SS)	152	5.427	5.427	(0.857)	67057	0.42956	430
12 2-Methylnaphthalene	142	5.454	5.454	(1.005)	127006	0.94487	945
* 13 1-Methylnaphthalene-d10	152	5.510	5.510	(1.000)	65124	0.50000	0.500
\$ 14 1-Methylnaphthalene-d10 (SS)	152	5.510	5.510	(0.870)	65124	0.41932	419
15 1-Methylnaphthalene	142	5.536	5.536	(1.005)	60911	0.48240	482
16 Biphenyl	154	5.840	5.840	(1.076)	2048712	12.7979	12800
* 17 2,6-Dimethylnaphthalene-d12	168	5.940	5.937	(1.000)	60666	0.50000	0.500
\$ 18 2,6-Dimethylnaph-d12 (SS)	168	5.940	5.937	(0.938)	60666	0.45353	454
19 2,6 Dimethylnaphthalene	156	5.981	5.974	(1.007)	18985	0.15744	157
* 20 Acenaphthylene-d8	160	6.199	6.196	(1.000)	101921	0.50000	0.500

16/11

Data File: /var/chem/gcms/mp.i/P080311.b/mk09r2ac.d
Report Date: 05-Aug-2011 11:08

Compounds	QUANT SIG	MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN	FINAL
							(ug/ml)	(ng/sample)
=====	=====	=====	=====	=====	=====	=====	=====	=====
\$ 21 Acenaphthylene-d8 (SS)		160	6.199	6.196	(0.979)	101921	0.45248	452
22 Acenaphthylene		152	6.211	6.208	(1.002)	3824	0.01895	19.0
* 23 Acenaphthene-d10		164	6.330	6.327	(1.000)	61974	0.50000	0.500
24 Acenaphthene		154	6.356	6.353	(1.025)	37102	0.31223	312
25 2,3,5 Trimethylnaphthalene		170	6.674	6.674	(1.124)	8958	0.08735	87.4
\$ 26 Fluorene-d10		176	6.763	6.763	(0.892)	121653	1.12814	1130
27 Fluorene		166	6.786	6.788	(0.895)	336626	2.42900	2430
\$ 28 13C6-Fluorene		171	6.786	6.786	(0.895)	125324	1.04794	1050
* 34 Dibenzothiophene-d8		192	7.478	7.478	(1.000)	108045	0.50000	0.500
\$ 35 Dibenzothiophene-d8 (SS)		192	7.478	7.478	(0.841)	108045	0.44534	445
36 Dibenzothiophene		184	7.493	7.495	(1.002)	1812465	8.82150	8820
* 41 Phenanthrene-d10		188	7.582	7.582	(1.000)	90170	0.50000	0.500
\$ 42 Phenanthrene-d10 (SS)		188	7.582	7.582	(0.853)	90170	0.41117	411
43 Phenanthrene		178	7.603	7.603	(1.003)	2236661	11.3795	11400 D
* 44 Anthracene-d10		188	7.632	7.632	(1.000)	84645	0.50000	0.500
\$ 45 Anthracene-d10 (SS)		188	7.632	7.632	(0.858)	84645	0.44711	447
46 Anthracene		178	7.646	7.648	(1.002)	43610	0.20629	206
\$ 47 13C6-Anthracene		184	7.646	7.646	(0.860)	81418	0.40779	408
52 1-Methylphenanthrene		192	8.148	8.150	(1.075)	12488	0.10320	103
* 53 Fluoranthene-d10		212	8.672	8.672	(1.000)	100470	0.50000	0.500
\$ 54 Fluoranthene-d10 (SS)		212	8.672	8.672	(0.975)	100470	0.48059	481
55 Fluoranthene		202	8.689	8.687	(1.002)	137564	0.61883	619
* 56 Pyrene-d10		212	8.891	8.891	(1.000)	85204	0.50000	0.500 ✓
57 Pyrene		202	8.928	8.908	(1.030)	2166386	9.22208	9220 D
\$ 58 Terphenyl-d14		244	9.049	9.050	(1.044)	147910	1.47560	1480 (R)
* 60 Benzo(a) anthracene-d12		240	10.108	10.108	(1.000)	66825	0.50000	0.500
\$ 61 Benzo(a) anthracene-d12 (SS)		240	10.108	10.108	(1.137)	66825	0.62037	620 (R)
* 63 Chrysene-d12		240	10.141	10.142	(1.000)	70793	0.50000	0.500
\$ 64 Chrysene-d12 (SS)		240	10.141	10.142	(1.141)	70793	0.41493	415
65 Chrysene		228	10.154	10.167	(1.001)	3763686	24.1710	24200 D
* 70 Benzo(b) fluoranthene-d12		264	11.265	11.259	(1.000)	61122	0.50000	0.500
\$ 71 Benzo(b) fluoranthene-d12 (SS)		264	11.265	11.259	(0.973)	61122	0.50318	503
72 Benzo(b) fluoranthene		252	11.288	11.289	(1.002)	14758	0.08698	87.0
* 73 Benzo(k) fluoranthene-d12		264	11.294	11.295	(1.000)	74124	0.50000	0.500
\$ 74 Benzo(k) fluoranthene-d12 (SS)		264	11.294	11.295	(0.975)	74124	0.43619	436
75 Benzo(k) fluoranthene		252	11.312	11.319	(1.002)	1768	0.01080	10.8 (M)
* 76 Benzo(e) pyrene-d12		264	11.581	11.581	(1.000)	57034	0.50000	0.500
77 Benzo(e) pyrene		252	11.611	11.611	(0.997)	24253	0.16389	164
* 78 Benzo(a) pyrene-d12		264	11.647	11.647	(1.000)	57761	0.50000	0.500
\$ 79 Benzo(a) pyrene-d12 (SS)		264	11.647	11.647	(1.006)	57761	0.45909	459
80 Benzo(a) pyrene		252	11.677	11.671	(1.003)	4693	0.03685	36.9
* 81 Perylene-d12		264	11.743	11.743	(1.000)	53279	0.50000	0.500
\$ 82 Perylene-d12 (SS)		264	11.743	11.743	(1.014)	53279	0.43716	437
83 Perylene		252	11.772	11.773	(1.003)	2781	0.02091	20.9
* 84 Indeno(123-cd) pyrene-d12		288	13.118	13.118	(1.000)	64423	0.50000	0.500
\$ 85 Indeno(123-cd) pyrene-d12 (SS)		288	13.118	13.118	(1.133)	64423	0.46803	468
86 Indeno(1,2,3-cd) pyrene		276	13.156	13.152	(1.003)	1336	0.00879	8.79

Data File: /var/chem/gcms/mp.i/P080311.b/mk09r2ac.d
 Report Date: 05-Aug-2011 11:08

Compounds	QUANT SIG						CONCENTRATIONS	
	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN	FINAL	
						(ug/ml)	(ng/sample)	
=====	=====	==	=====	=====	=====	=====	=====	
* 87 Dibenz (ah) anthracene-d14	292	13.122	13.123	(1.000)	47404	0.50000	0.500	
\$ 88 Dibenz (ah) anthracene-d14 (SS)	292	13.122	13.123	(1.133)	47404	0.45598	456	
89 Dibenz (a,h) anthracene	278	13.165	13.169	(1.003)	1698	0.01495	15.0	
* 90 Benzo (ghi) perylene-d12	288	13.473	13.469	(1.000)	45456	0.50000	0.500	
\$ 91 Benzo (ghi) perylene-d12 (SS)	288	13.473	13.469	(1.163)	45456	0.44126	441	
92 Benzo (g,h,i) perylene	276	13.506	13.502	(1.002)	3056	0.02476	24.8	

QC Flag Legend

R - Spike/Surrogate failed recovery limits.
 M - Compound response manually integrated.

Data File: /var/chem/gcms/mp.i/P080311.b/mk09r2ac.d
 Report Date: 05-Aug-2011 10:43

TestAmerica Knoxville

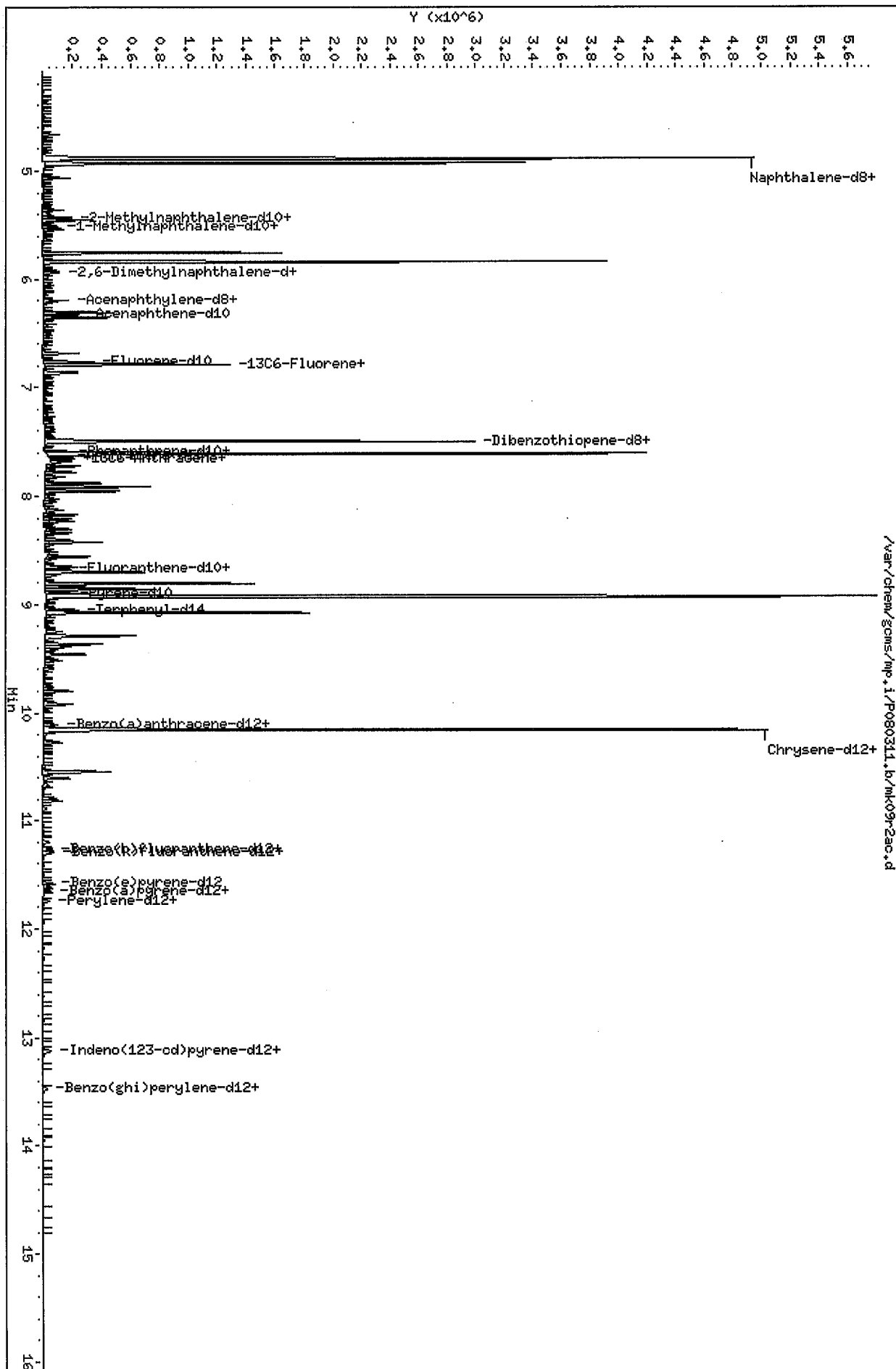
RECOVERY REPORT

Client Name: ITSUR Client SDG: P080311
 Sample Matrix: GAS Fraction: SV
 Lab Smp Id: MK09R2AC
 Level: LOW Operator: 11211
 Data Type: MS DATA SampleType: SAMPLE
 SpikeList File: icv.spk Quant Type: ISTD
 Sublist File: pah.sub
 Method File: /var/chem/gcms/mp.i/P080311.b/SIMPAH3.m
 Misc Info: P080311,SIMPAH3

SURROGATE COMPOUND	CONC ADDED ng/sample	CONC RECOVERED ng/sample	% RECOVERED	LIMITS
\$ 2 Naphthalene-d8 (SS)	500	400	80.04	30-120
\$ 222 13C6-Naphthalene	500	46.7	9.34*	50-150
\$ 11 2-Methylnaphthalen	500	430	85.91	30-120
\$ 14 1-Methylnaphthalen	500	419	83.86	30-120
\$ 18 2,6-Dimethylnaph-d	500	454	90.71	30-120
\$ 21 Acenaphthylene-d8 (	500	452	90.50	30-120
\$ 26 Fluorene-d10	1000	1130	112.81	30-120
\$ 28 13C6-Fluorene	1000	1050	104.79	30-120
\$ 35 Dibenzothiopene-d8	500	445	89.07	30-120
\$ 42 Phenanthrene-d10 (S	500	411	82.23	30-120
\$ 45 Anthracene-d10 (SS)	500	447	89.42	30-120
\$ 47 13C6-Anthracene	500	408	81.56	30-120
\$ 54 Fluoranthene-d10 (S	500	481	96.12	0-120
\$ 58 Terphenyl-d14	1000	1480	147.56*	30-120
\$ 61 Benzo (a) anthracene	500	620	124.07*	30-120
\$ 64 Chrysene-d12 (SS)	500	415	82.99	30-120
\$ 71 Benzo (b) fluoranthe	500	503	100.64	30-120
\$ 74 Benzo (k) fluoranthe	500	436	87.24	30-120
\$ 79 Benzo (a) pyrene-d12	500	459	91.82	30-120
\$ 82 Perylene-d12 (SS)	500	437	87.43	30-120
\$ 85 Indeno (123-cd) pyre	500	468	93.61	30-120
\$ 88 Dibenz (ah) anthrace	500	456	91.20	30-120
\$ 91 Benzo (ghi) perylene	500	441	88.25	30-120

Data File: /var/chem/gcms/mp.i/P080311.b/mk09r2ac.d
 Date : 03-AUG-2011 14:43
 Client ID:
 Sample Info: MK09R2AC,,0,,D1:5
 Purge Volume: 1.0
 Column Phase: Varian: 5MS

Instrument: mp.i
 Operator: 11211
 Column diameter: 0.25



Data File: /var/chem/gcms/mp.i/P080311.b/mk09r2ac.d

Date : 03-AUG-2011 14:43

Client ID:

Instrument: mp.i

Sample Info: MK09R2AC,,0,,D1:5

Purge Volume: 1.0

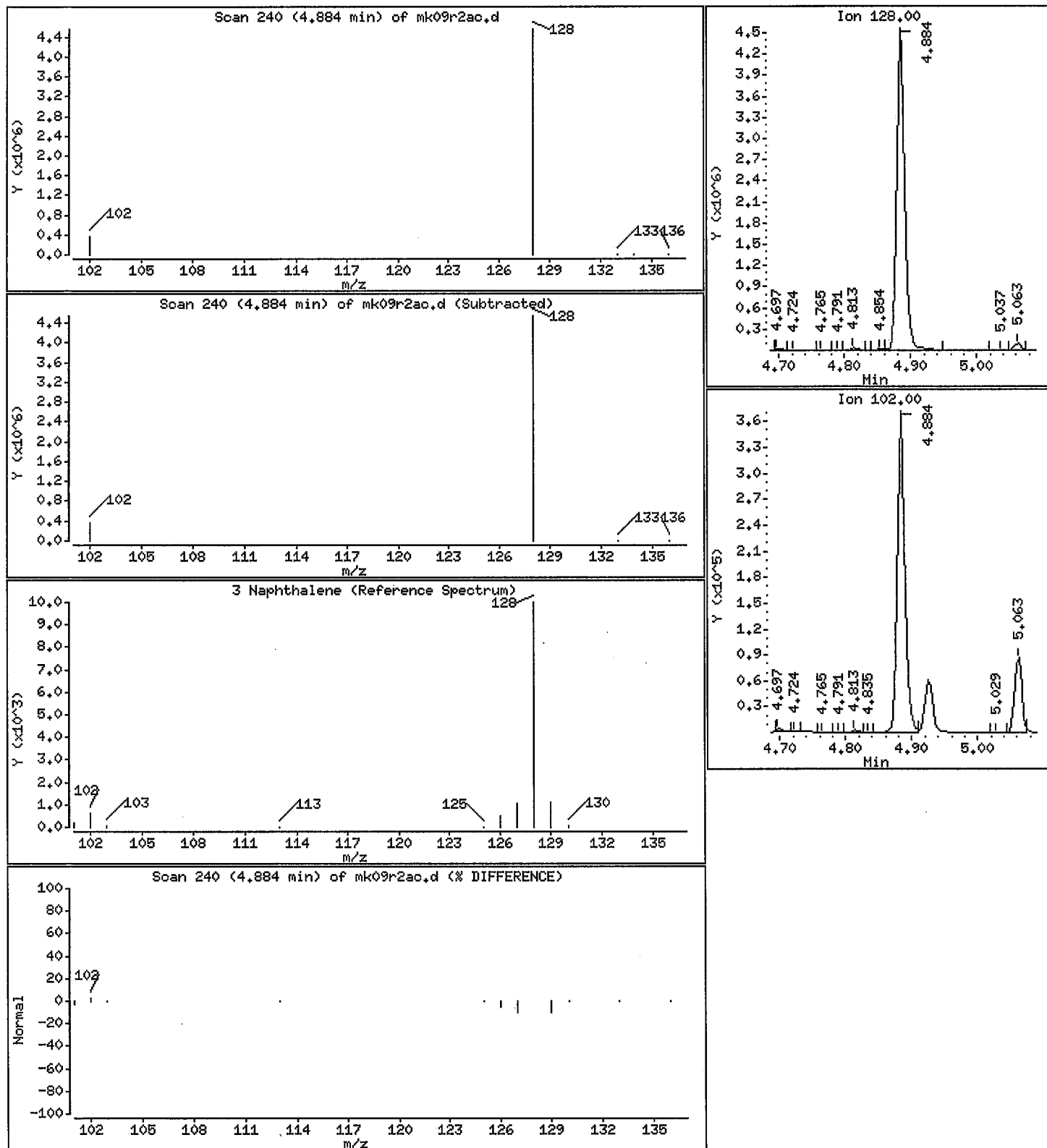
Operator: 11211

Column phase: Varian: 5MS

Column diameter: 0.25

3 Naphthalene

Concentration: 19300 ng/sample



EM-BTRF-001164

Data File: /var/chem/gcms/mp.i/P080311.b/mk09r2ac.d

Date : 03-AUG-2011 14:43

Client ID:

Instrument: mp.i

Sample Info: MK09R2AC,,0,,D1:5

Purge Volume: 1.0

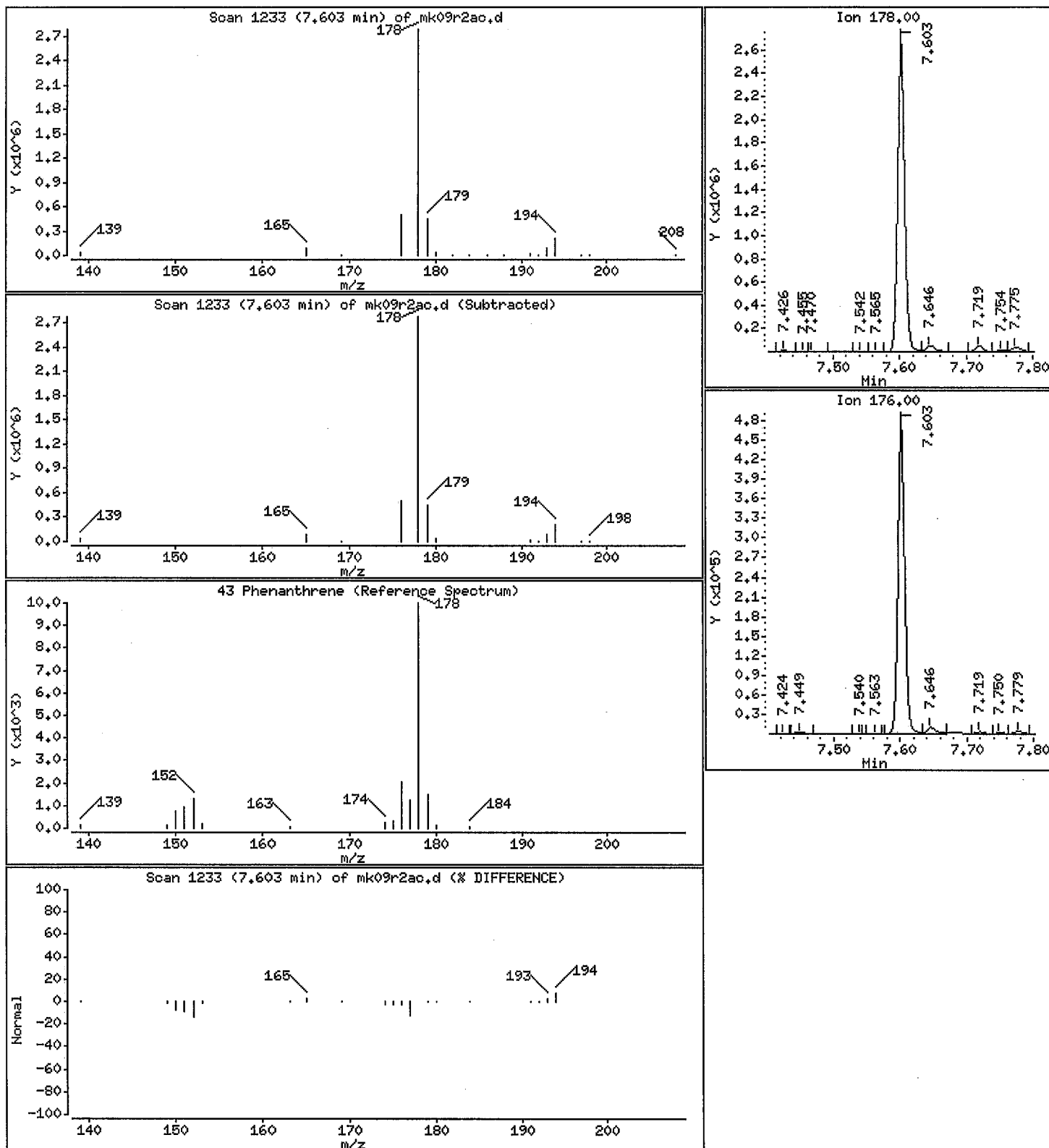
Operator: 11211

Column phase: Variant 5MS

Column diameter: 0.25

43 Phenanthrene

Concentration: 11400 ng/sample



EM-BTRF-001165

Data File: /var/chem/gcms/mp.i/P080311.b/mk09r2ao.d

Date : 03-AUG-2011 14:43

Client ID:

Instrument: mp.i

Sample Info: MK09R2AC,,0,,D1:5

Purge Volume: 1.0

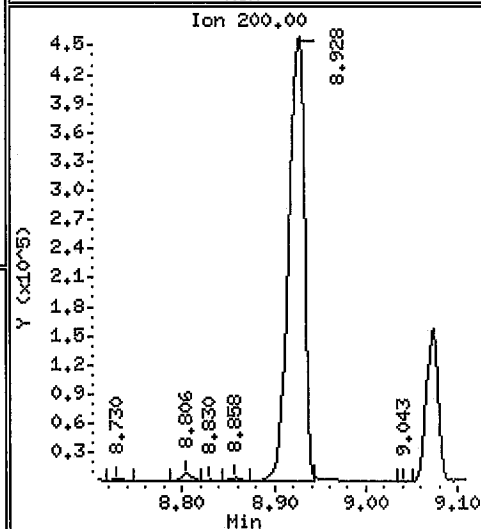
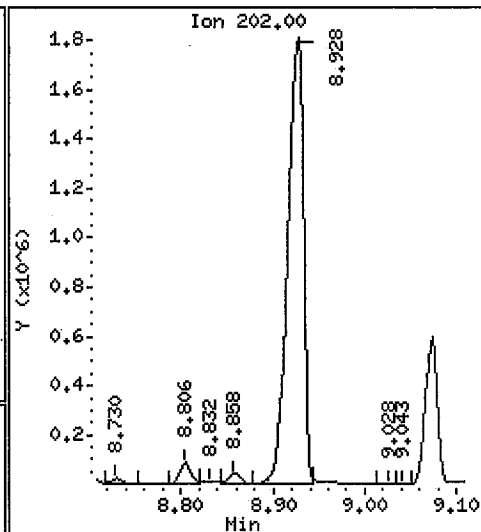
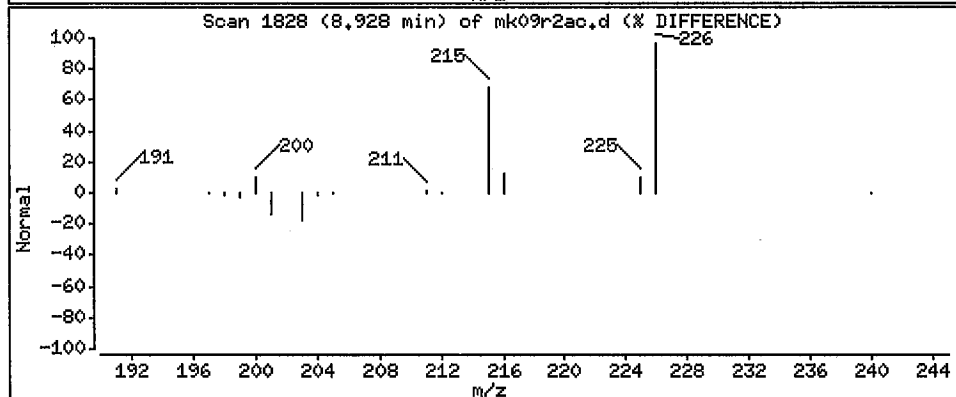
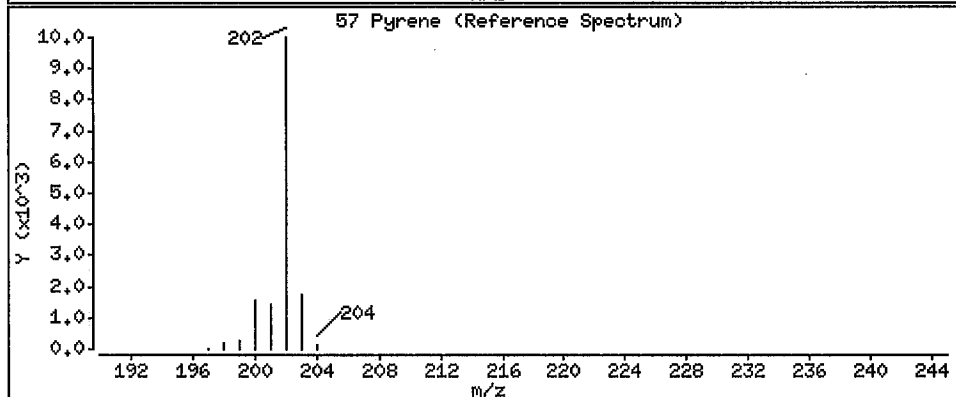
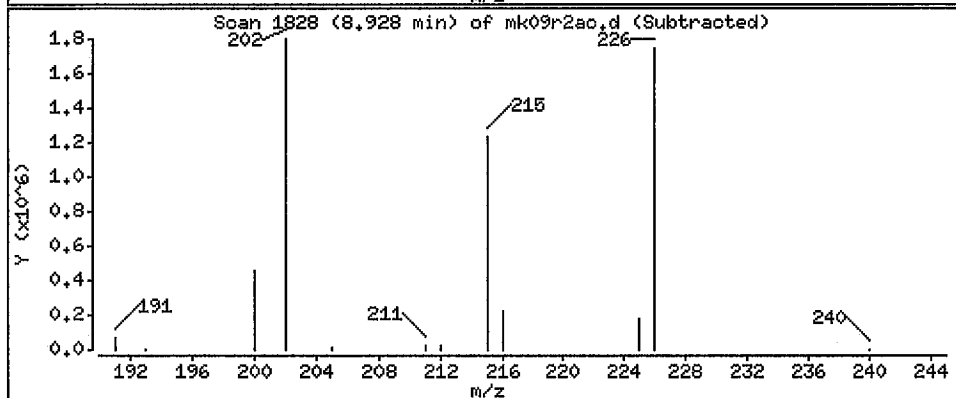
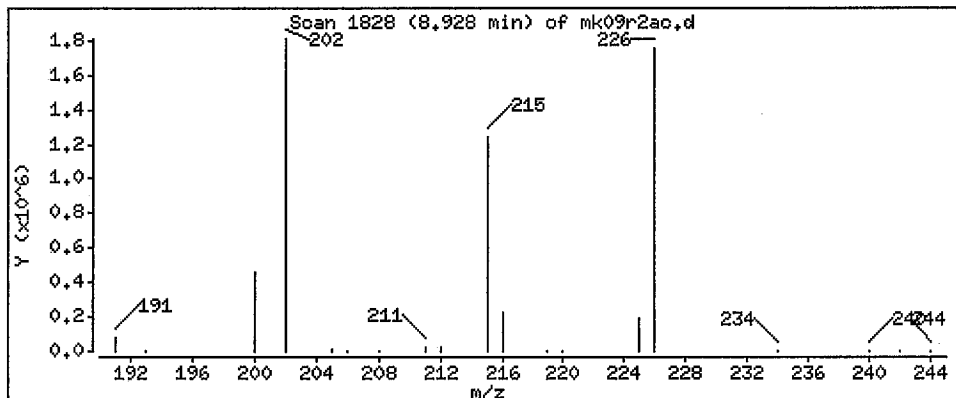
Operator: 11211

Column phase: Variant 5MS

Column diameter: 0.25

57 Pyrene

Concentration: 9220 ng/sample



Data File: /var/chem/gcms/mp.i/P080311.b/mk09r2ao.d

Date : 03-AUG-2011 14:43

Client ID:

Instrument: mp.i

Sample Info: MK09R2AC,,0,,D1:5

Purge Volume: 1.0

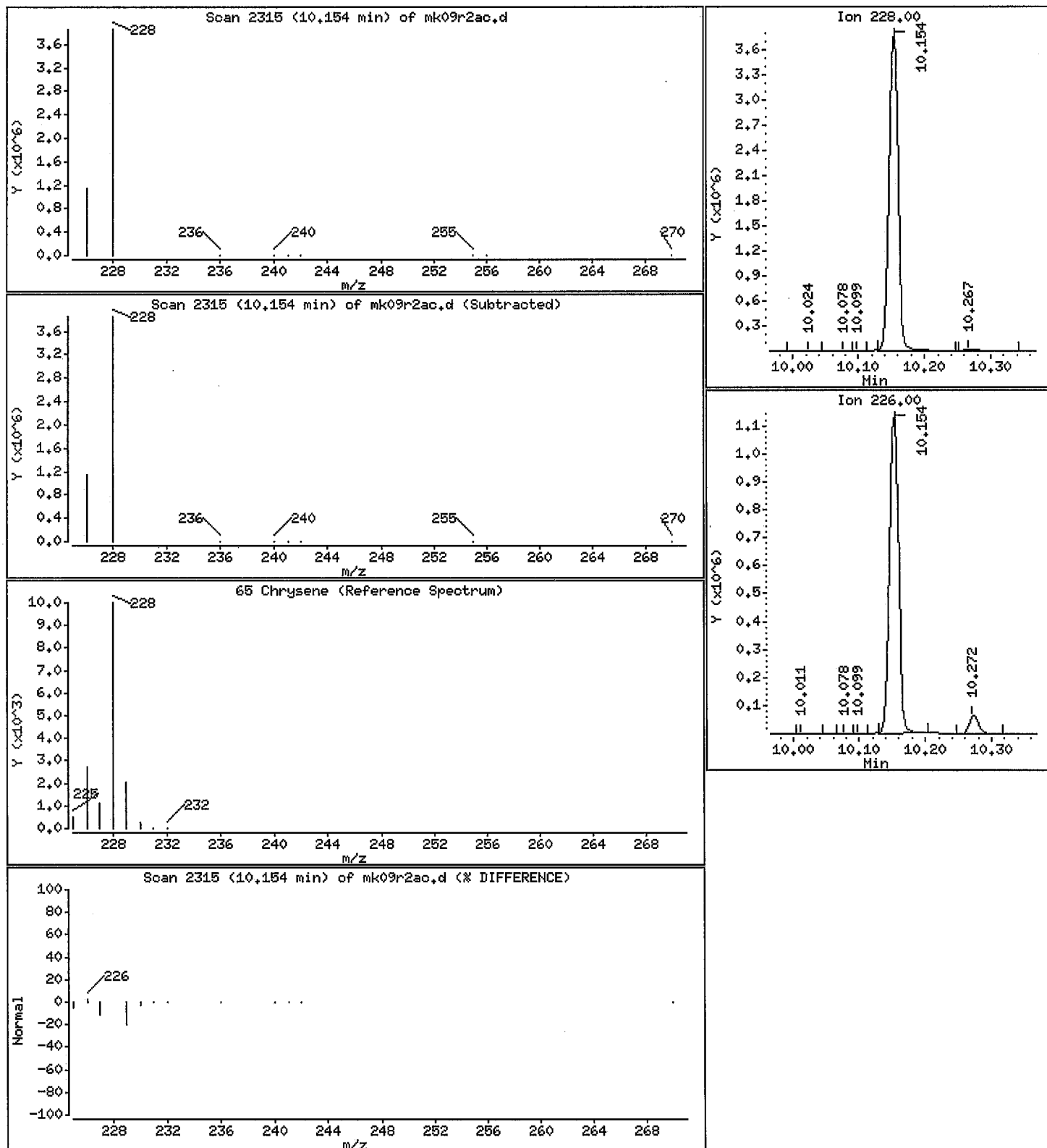
Operator: 11211

Column phase: Varian: SMS

Column diameter: 0.25

65 Chrysene

Concentration: 24200 ng/sample



EM-BTRF-001167

TRC Environmental Corporation

Client Sample ID: EXM-SRU-M0010-RGTBLK-COMBINED

GC/MS Semivolatiles

Lot-Sample #....: H1G190403-004 Work Order #....: MK09T1AC Matrix.....: AIR
 Date Sampled....: 07/08/11 Date Received...: 07/19/2011
 Prep Date.....: 07/20/11 Analysis Date...: 07/29/2011
 Prep Batch #....: 1201079
 Dilution Factor: 2 Method.....: KNOX ID-0016

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Acenaphthene	ND	40	ng/sample	9.8
Acenaphthylene	ND	40	ng/sample	4.8
Anthracene	ND	20	ng/sample	7.6
Benzo(a)anthracene	ND	20	ng/sample	7.6
Benzo(b)fluoranthene	ND	200	ng/sample	60
Benzo(k)fluoranthene	ND	200	ng/sample	86
Benzo(ghi)perylene	ND	20	ng/sample	10
Benzo(a)pyrene	ND	20	ng/sample	5.8
Benzo(e)pyrene	ND	20	ng/sample	11
Chrysene	ND	20	ng/sample	5.0
Dibenz(a,h)anthracene	ND	20	ng/sample	7.8
Fluoranthene	ND	20	ng/sample	13
Fluorene	ND	20	ng/sample	8.2
Indeno(1,2,3-cd)pyrene	ND	20	ng/sample	5.2
2-Methylnaphthalene	ND	100	ng/sample	42
Naphthalene	ND	800	ng/sample	500
Perylene	ND	20	ng/sample	6.2
Phenanthrene	ND	60	ng/sample	48
Pyrene	ND	120	ng/sample	72

Internal Standard	PERCENT RECOVERY		RECOVERY LIMITS
Fluorene d-10	105		(50 - 150)
Terphenyl-d14	116		(50 - 150)
13C6-Fluorene	98		(50 - 150)
Anthracene-d10	97		(30 - 120)
Naphthalene-d8	77		(30 - 120)
2-Methylnaphthalene-d10	95		(30 - 120)
1-Methylnaphthalene-d10	92		(30 - 120)
Acenaphthylene-d8	112		(30 - 120)
Phenanthrene-d10	82		(30 - 120)
2,6-Dimethylnaphthalene-d12	97		(30 - 120)
Fluoranthene-d10	102		(30 - 120)
Benzo(a)anthracene-d12	147 *		(30 - 120)
Chrysene-d12	91		(30 - 120)
Benzo(b)fluoranthene-d12	117		(30 - 120)
Benzo(k)fluoranthene-d12	81		(30 - 120)
Benzo(a)pyrene-d12	111		(30 - 120)
Perylene-d12	100		(30 - 120)
Indeno(1,2,3-cd)pyrene-d12	106		(30 - 120)
Dibenz(ah)anthracene-d14	104		(30 - 120)
Benzo(ghi)perylene-d12	98		(30 - 120)

TRC Environmental Corporation

Client Sample ID: EXM-SRU-M0010-RGTBLK-COMBINED

GC/MS Semivolatiles

Lot-Sample #...: H1G190403-004 Work Order #...: MK09T1AC Matrix.....: AIR

NOTE(S) :

1 13C6-Anthracene = 82 %

* Surrogate recovery is outside stated control limits.

Data File: /var/chem/gcms/mp.i/P072911.b/mk09t1ac.d
 Report Date: 04-Aug-2011 16:26

TestAmerica Knoxville

SEMIVOLATILE QUANTITATION REPORT

Data file : /var/chem/gcms/mp.i/P072911.b/mk09t1ac.d
 Lab Smp Id: MK09T1AC Client Smp ID: EXM-SRU-M0010-RGTBL
 Inj Date : 29-JUL-2011 13:26
 Operator : ~~60487~~ 11211 Inst ID: mp.i
 Smp Info : , , 0 , , , ~~26/11~~
 Misc Info : P072911, SIMPAH3
 Comment :
 Method : /var/chem/gcms/mp.i/P072911.b/SIMPAH3.m
 Meth Date : 29-Jul-2011 11:36 chemist Quant Type: ISTD
 Cal Date : 26-JUL-2011 20:15 Cal File: pg26ic07.d
 Als bottle: 7
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: pah.sub
 Target Version: 3.50
 Processing Host: qmidhp01

Concentration Formula: Amt * DF * Sf * Vt / Vo * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Sf	1.00000	Split factor
Vt	500.00000	Volume of final extract (uL)
Vo	1.00000	Volume of sample extracted (sample)

Cpnd Variable

Local Compound Variable

						CONCENTRATIONS	
QUANT SIG						ON-COLUMN	FINAL
Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/ml)	(ng/sample)
=====	====	==	=====	=====	=====	=====	=====
* 1 Naphthalene-d8	136	4.869	4.865	(1.000)	568415	0.50000	0.500
\$ 2 Naphthalene-d8 (SS)	136	4.869	4.865	(0.770)	568415	0.38646	193
3 Naphthalene	128	4.884	4.880	(1.003)	229227	0.23763	119
\$ 222 13C6-Naphthalene	134	4.865	4.880	(0.999)	53840	0.05157	25.8 (R)
* 10 2-Methylnaphthalene-d10	152	5.424	5.424	(1.000)	375770	0.50000	0.500
\$ 11 2-Methylnaphthalene-d10 (SS)	152	5.424	5.424	(0.858)	375770	0.47348	237
12 2-Methylnaphthalene	142	5.450	5.450	(1.005)	19840	0.02621	13.1
* 13 1-Methylnaphthalene-d10	152	5.503	5.503	(1.000)	362790	0.50000	0.500
\$ 14 1-Methylnaphthalene-d10 (SS)	152	5.503	5.503	(0.870)	362790	0.45988	230
15 1-Methylnaphthalene	142	5.533	5.533	(1.005)	12114	0.01721	8.60
16 Biphenyl	154	5.835	5.835	(1.076)	130991	0.14570	72.8
* 17 2,6-Dimethylnaphthalene-d12	168	5.935	5.933	(1.000)	327100	0.50000	0.500
\$ 18 2,6-Dimethylnaph-d12 (SS)	168	5.935	5.933	(0.938)	327100	0.48315	242
19 2,6 Dimethylnaphthalene	156	5.976	5.969	(1.007)	5556	0.00852	4.26

Data File: /var/chem/gcms/mp.i/P072911.b/mk09t1ac.d
Report Date: 04-Aug-2011 16:26

Compounds	QUANT SIG			REL RT	RESPONSE	CONCENTRATIONS	
	MASS	RT	EXP RT			ON-COLUMN (ug/ml)	FINAL (ng/sample)
=====	=====	==	=====	=====	=====	=====	=====
* 20 Acenaphthylene-d8	160	6.193	6.194	(1.000)	619923	0.50000	0.500
\$ 21 Acenaphthylene-d8 (SS)	160	6.193	6.194	(0.979)	619923	0.56024	280
22 Acenaphthylene	152	6.205	6.202	(1.002)	843	0.000674	0.337
* 23 Acenaphthene-d10	164	6.325	6.325	(1.000)	312738	0.50000	0.500
24 Acenaphthene	154	6.350	6.350	(1.025)	4251	0.00569	2.85
25 2,3,5 Trimethylnaphthalene	170	6.666	6.669	(1.123)	2008	0.00369	1.85
\$ 26 Fluorene-d10	176	6.758	6.758	(0.892)	617673	1.04836	524 (R)
27 Fluorene	166	6.783	6.783	(0.895)	4110	0.00539	2.70
\$ 28 13C6-Fluorene	171	6.783	6.781	(0.895)	647055	0.98400	492 (R)
* 34 Dibenzothiophene-d8	192	7.474	7.474	(1.000)	540030	0.50000	0.500
\$ 35 Dibenzothiophene-d8 (SS)	192	7.474	7.474	(0.841)	540030	0.40420	202
36 Dibenzothiophene	184	7.490	7.489	(1.002)	2494	0.00242	1.21
* 41 Phenanthrene-d10	188	7.578	7.578	(1.000)	496944	0.50000	0.500
\$ 42 Phenanthrene-d10 (SS)	188	7.578	7.578	(0.853)	496944	0.41227	206
43 Phenanthrene	178	7.598	7.597	(1.003)	22136	0.02029	10.1
* 44 Anthracene-d10	188	7.625	7.626	(1.000)	495182	0.50000	0.500
\$ 45 Anthracene-d10 (SS)	188	7.625	7.626	(0.858)	495182	0.48649	243
46 Anthracene	178	7.644	7.642	(1.002)	1420	0.00111	0.557
\$ 47 13C6-Anthracene	184	7.642	7.642	(0.860)	453662	0.41119	206
52 1-Methylphenanthrene	192	8.148	8.143	(1.075)	752	0.00115	0.574
* 53 Fluoranthene-d10	212	8.665	8.665	(1.000)	570748	0.50000	0.500
\$ 54 Fluoranthene-d10 (SS)	212	8.665	8.665	(0.975)	570748	0.50838	254
55 Fluoranthene	202	8.682	8.683	(1.002)	12851	0.01001	5.00
* 56 Pyrene-d10	212	8.887	8.885	(1.000)	457661	0.50000	0.500
57 Pyrene	202	8.904	8.904	(1.028)	58390	0.04300	21.5
\$ 58 Terphenyl-d14	244	9.043	9.043	(1.044)	676024	1.15601	578 (R)
* 60 Benzo(a) anthracene-d12	240	10.100	10.100	(1.000)	410335	0.50000	0.500
\$ 61 Benzo(a) anthracene-d12 (SS)	240	10.100	10.100	(1.136)	410335	0.73508	368 (R)
62 Benzo(a) anthracene	228	10.133	10.121	(1.003)	1857	0.00142	0.708
* 63 Chrysene-d12	240	10.133	10.133	(1.000)	443858	0.50000	0.500
\$ 64 Chrysene-d12 (SS)	240	10.133	10.133	(1.140)	443858	0.45321	227
65 Chrysene	228	10.162	10.163	(1.003)	908	0.000937	0.469
* 70 Benzo(b) fluoranthene-d12	264	11.253	11.253	(1.000)	401658	0.50000	0.500
\$ 71 Benzo(b) fluoranthene-d12 (SS)	264	11.253	11.253	(0.973)	401658	0.58635	293
72 Benzo(b) fluoranthene	252	11.283	11.277	(1.003)	1827	0.00155	0.774
* 73 Benzo(k) fluoranthene-d12	264	11.289	11.289	(1.000)	396111	0.50000	0.500
\$ 74 Benzo(k) fluoranthene-d12 (SS)	264	11.289	11.289	(0.976)	396111	0.40517	203
75 Benzo(k) fluoranthene	252	11.312	11.307	(1.002)	1136	0.00131	0.655
* 76 Benzo(e) pyrene-d12	264	11.569	11.570	(1.000)	324828	0.50000	0.500
77 Benzo(e) pyrene	252	11.605	11.600	(0.997)	2749	0.00259	1.20 SMR
* 78 Benzo(a) pyrene-d12	264	11.635	11.635	(1.000)	390080	0.50000	0.500
\$ 79 Benzo(a) pyrene-d12 (SS)	264	11.635	11.635	(1.006)	390080	0.55694	278
80 Benzo(a) pyrene	252	11.665	11.665	(1.003)	2696	0.00305	1.52
* 81 Perylene-d12	264	11.737	11.737	(1.000)	349273	0.50000	0.500
\$ 82 Perylene-d12 (SS)	264	11.737	11.737	(1.014)	349273	0.50000	250
83 Perylene	252	11.767	11.761	(1.003)	1481	0.00168	0.841
* 84 Indeno(123-cd)pyrene-d12	288	13.106	13.106	(1.000)	424964	0.50000	0.500

Data File: /var/chem/gcms/mp.i/P072911.b/mk09t1ac.d
 Report Date: 04-Aug-2011 16:26

Compounds	QUANT SIG						CONCENTRATIONS	
	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN	FINAL	
						(ug/ml)	(ng/sample)	
=====	====	==	=====	=====	=====	=====	=====	
\$ 85 Indeno(123-cd)pyrene-d12(SS)	288	13.106	13.106	(1.133)	424964	0.53097	265	
86 Indeno(1,2,3-cd)pyrene	276	13.139	13.140	(1.003)	1176	0.00114	0.572	
* 87 Dibenz(ah)anthracene-d14	292	13.110	13.110	(1.000)	316093	0.50000	0.500	
\$ 88 Dibenz(ah)anthracene-d14(SS)	292	13.110	13.110	(1.133)	316093	0.51850	259	
89 Dibenz(a,h)anthracene	278	13.161	13.157	(1.004)	636	0.000819	0.410	
* 90 Benzo(ghi)perylene-d12	288	13.460	13.460	(1.000)	295075	0.50000	0.500	
\$ 91 Benzo(ghi)perylene-d12(SS)	288	13.460	13.460	(1.163)	295075	0.49057	245	
92 Benzo(g,h,i)perylene	276	13.494	13.494	(1.002)	2474	0.00303	1.51	

7/28.8.11

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

Data File: /var/chem/gcms/mp.i/P072911.b/mk09t1ac.d
 Report Date: 05-Aug-2011 13:39

TestAmerica Knoxville

SEMIVOLATILE QUANTITATION REPORT

Data file : /var/chem/gcms/mp.i/P072911.b/mk09t1ac.d
 Lab Smp Id: MK09T1AC Client Smp ID: EXM-SRU-M0010-RGTBL
 Inj Date : 29-JUL-2011 13:26
 Operator : 11211 Inst ID: mp.i
 Smp Info : ,,,0,,,
 Misc Info : P072911,SIMPAH3
 Comment :
 Method : /var/chem/gcms/mp.i/P072911.b/SIMPAH3.m
 Meth Date : 04-Aug-2011 19:00 cochranj Quant Type: ISTD
 Cal Date : 26-JUL-2011 20:15 Cal File: pg26ic07.d
 Als bottle: 7
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: pah.sub
 Target Version: 3.50
 Processing Host: qmidhp01

Concentration Formula: Amt * DF * Sf*Vt/Vo * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Sf	2.00000	Split factor
Vt	500.00000	Volume of final extract (uL)
Vo	1.00000	Volume of sample extracted (sample)

Cpnd Variable Local Compound Variable

all mdc

Compounds	QUANT SIG	MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN (ug/ml)	FINAL (ng/sample)
* 1 Naphthalene-d8	=====	136	4.869	4.865	(1.000)	568415	0.50000	0.500
\$ 2 Naphthalene-d8 (SS)	=====	136	4.869	4.865	(0.770)	568415	0.38646	386
3 Naphthalene	=====	128	4.884	4.880	(1.003)	229227	0.23763	238
* 10 2-Methylnaphthalene-d10	=====	152	5.424	5.424	(1.000)	375770	0.50000	0.500
\$ 11 2-Methylnaphthalene-d10 (SS)	=====	152	5.424	5.424	(0.858)	375770	0.47348	473
12 2-Methylnaphthalene	=====	142	5.450	5.450	(1.005)	19840	0.02621	26.2
* 13 1-Methylnaphthalene-d10	=====	152	5.503	5.503	(1.000)	362790	0.50000	0.500
\$ 14 1-Methylnaphthalene-d10 (SS)	=====	152	5.503	5.503	(0.870)	362790	0.45988	460
15 1-Methylnaphthalene	=====	142	5.533	5.533	(1.005)	12114	0.01721	17.2
16 Biphenyl	=====	154	5.835	5.835	(1.076)	130991	0.14570	146
* 17 2,6-Dimethylnaphthalene-d12	=====	168	5.935	5.933	(1.000)	327100	0.50000	0.500
\$ 18 2,6-Dimethylnaph-d12 (SS)	=====	168	5.935	5.933	(0.938)	327100	0.48315	483
19 2,6 Dimethylnaphthalene	=====	156	5.976	5.969	(1.007)	5556	0.00852	8.52
* 20 Acenaphthylene-d8	=====	160	6.193	6.194	(1.000)	619923	0.50000	0.500

Data File: /var/chem/gcms/mp.i/P072911.b/mk09t1ac.d
Report Date: 05-Aug-2011 13:39

Compounds	QUANT	SIG						CONCENTRATIONS	
			MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN	FINAL
								(ug/ml)	(ng/sample)
=====	=====	==	=====	=====	=====	=====	=====	=====	=====
\$ 21 Acenaphthylene-d8 (SS)	160	6.193	6.194	(0.979)	619923	0.56024	560		
22 Acenaphthylene	152	6.205	6.202	(1.002)	843	0.000674	0.674		
* 23 Acenaphthene-d10	164	6.325	6.325	(1.000)	312738	0.50000	0.500		
24 Acenaphthene	154	6.350	6.350	(1.025)	4251	0.00569	5.69		
25 2,3,5 Trimethylnaphthalene	170	6.666	6.669	(1.123)	2008	0.00369	3.69		
\$ 26 Fluorene-d10	176	6.758	6.758	(0.892)	617673	1.04836	1050		
27 Fluorene	166	6.783	6.783	(0.895)	4110	0.00539	5.39		
\$ 28 13C6-Fluorene	171	6.783	6.781	(0.895)	647055	0.98400	984		
* 34 Dibenzothiophene-d8	192	7.474	7.474	(1.000)	540030	0.50000	0.500		
\$ 35 Dibenzothiophene-d8 (SS)	192	7.474	7.474	(0.841)	540030	0.40420	404		
36 Dibenzothiophene	184	7.490	7.489	(1.002)	2494	0.00242	2.42		
* 41 Phenanthrene-d10	188	7.578	7.578	(1.000)	496944	0.50000	0.500		
\$ 42 Phenanthrene-d10 (SS)	188	7.578	7.578	(0.853)	496944	0.41227	412		
43 Phenanthrene	178	7.598	7.597	(1.003)	22136	0.02029	20.3		
* 44 Anthracene-d10	188	7.625	7.626	(1.000)	495182	0.50000	0.500		
\$ 45 Anthracene-d10 (SS)	188	7.625	7.626	(0.858)	495182	0.48649	486		
46 Anthracene	178	7.644	7.642	(1.002)	1420	0.00111	1.11		
\$ 47 13C6-Anthracene	184	7.642	7.642	(0.860)	453662	0.41119	411		
52 1-Methylphenanthrene	192	8.148	8.143	(1.075)	752	0.00115	1.15		
* 53 Fluoranthene-d10	212	8.665	8.665	(1.000)	570748	0.50000	0.500		
\$ 54 Fluoranthene-d10 (SS)	212	8.665	8.665	(0.975)	570748	0.50838	508		
55 Fluoranthene	202	8.682	8.683	(1.002)	12851	0.01001	10.0		
* 56 Pyrene-d10	212	8.887	8.885	(1.000)	457661	0.50000	0.500		
57 Pyrene	202	8.904	8.904	(1.028)	58390	0.04300	43.0		
\$ 58 Terphenyl-d14	244	9.043	9.043	(1.044)	676024	1.15601	1160		
* 60 Benzo(a)anthracene-d12	240	10.100	10.100	(1.000)	410335	0.50000	0.500		
\$ 61 Benzo(a)anthracene-d12 (SS)	240	10.100	10.100	(1.136)	410335	0.73508	735 (R)		
* 63 Chrysene-d12	240	10.133	10.133	(1.000)	443858	0.50000	0.500		
\$ 64 Chrysene-d12 (SS)	240	10.133	10.133	(1.140)	443858	0.45321	453		
65 Chrysene	228	10.162	10.163	(1.003)	908	0.000937	0.937		
* 70 Benzo(b)fluoranthene-d12	264	11.253	11.253	(1.000)	401658	0.50000	0.500		
\$ 71 Benzo(b)fluoranthene-d12 (SS)	264	11.253	11.253	(0.973)	401658	0.58635	586		
72 Benzo(b)fluoranthene	252	11.283	11.277	(1.003)	1827	0.00155	1.55 (H)		
* 73 Benzo(k)fluoranthene-d12	264	11.289	11.289	(1.000)	396111	0.50000	0.500		
\$ 74 Benzo(k)fluoranthene-d12 (SS)	264	11.289	11.289	(0.976)	396111	0.40517	405		
75 Benzo(k)fluoranthene	252	11.312	11.307	(1.002)	1136	0.00131	1.31		
* 76 Benzo(e)pyrene-d12	264	11.569	11.570	(1.000)	324828	0.50000	0.500		
77 Benzo(e)pyrene	252	11.605	11.600	(0.997)	1949	0.00184	1.84 (M)		
* 78 Benzo(a)pyrene-d12	264	11.635	11.635	(1.000)	390080	0.50000	0.500		
\$ 79 Benzo(a)pyrene-d12 (SS)	264	11.635	11.635	(1.006)	390080	0.55694	557		
80 Benzo(a)pyrene	252	11.665	11.665	(1.003)	2696	0.00305	3.05		
* 81 Perylene-d12	264	11.737	11.737	(1.000)	349273	0.50000	0.500		
\$ 82 Perylene-d12 (SS)	264	11.737	11.737	(1.014)	349273	0.50000	500		
83 Perylene	252	11.767	11.761	(1.003)	1481	0.00168	1.68		
* 84 Indeno(123-cd)pyrene-d12	288	13.106	13.106	(1.000)	424964	0.50000	0.500		
\$ 85 Indeno(123-cd)pyrene-d12 (SS)	288	13.106	13.106	(1.133)	424964	0.53097	531		
86 Indeno(1,2,3-cd)pyrene	276	13.139	13.140	(1.003)	1176	0.00114	1.14		

Data File: /var/chem/gcms/mp.i/P072911.b/mk09t1ac.d
 Report Date: 05-Aug-2011 13:39

Compounds	QUANT SIG	MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN	FINAL
							(ug/ml)	(ng/sample)
=====	=====	=====	=====	=====	=====	=====	=====	=====
* 87 Dibenz (ah) anthracene-d14		292	13.110	13.110	(1.000)	316093	0.50000	0.500
\$ 88 Dibenz (ah) anthracene-d14 (SS)		292	13.110	13.110	(1.133)	316093	0.51850	518 .
89 Dibenz (a,h) anthracene		278	13.161	13.157	(1.004)	636	0.000819	0.819
* 90 Benzo (ghi) perylene-d12		288	13.460	13.460	(1.000)	295075	0.50000	0.500
\$ 91 Benzo (ghi) perylene-d12 (SS)		288	13.460	13.460	(1.163)	295075	0.49057	491
92 Benzo (g,h,i) perylene		276	13.494	13.494	(1.002)	2474	0.00303	3.03 .

QC Flag Legend

R - Spike/Surrogate failed recovery limits.
 M - Compound response manually integrated.
 H - Operator selected an alternate compound hit.

Data File: /var/chem/gcms/mp.i/P072911.b/mk09t1ac.d
 Report Date: 05-Aug-2011 13:39

TestAmerica Knoxville

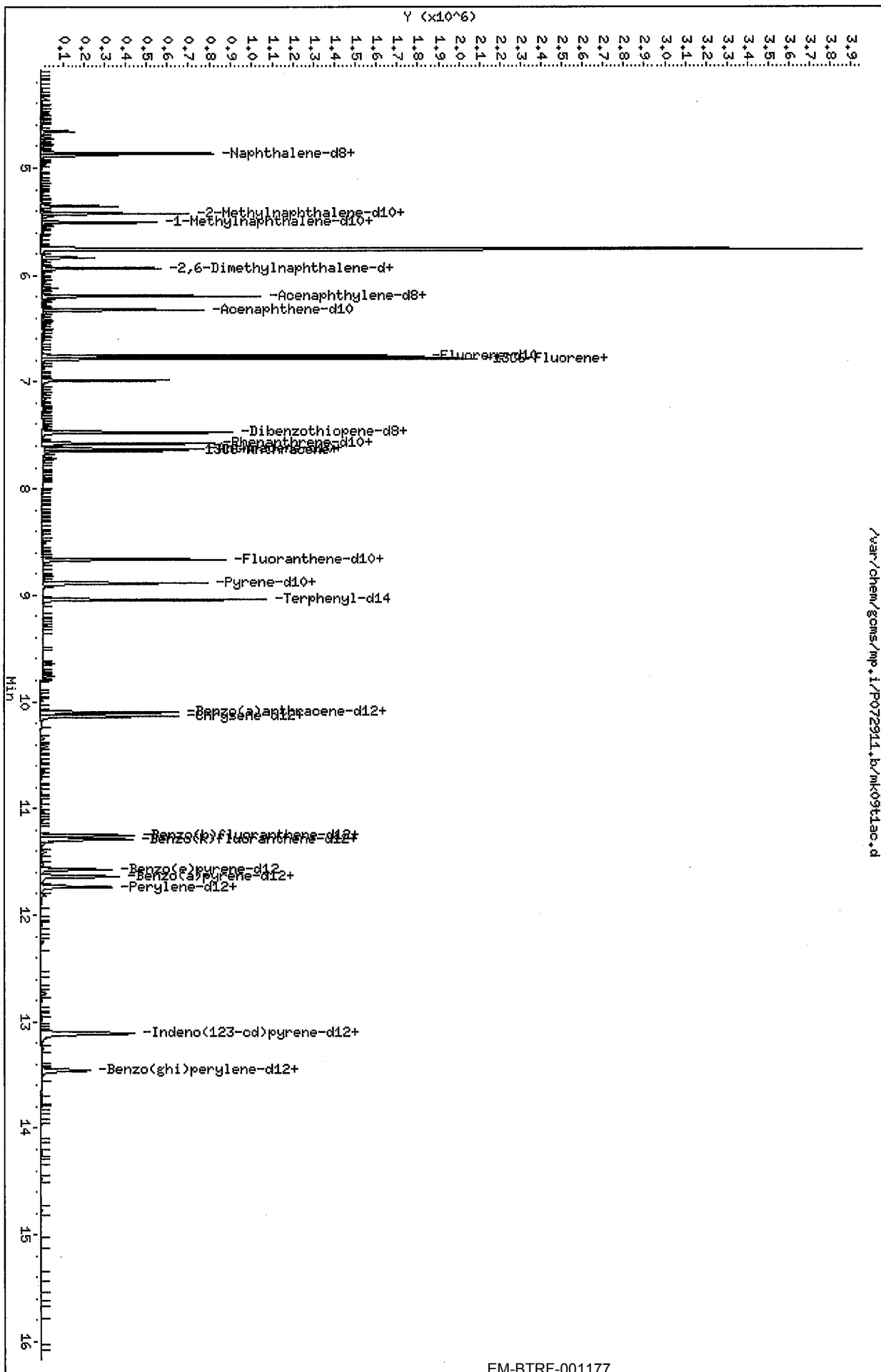
RECOVERY REPORT

Client Name: TRC Environmental Co19-JUL-2011 00:00 Client SDG: H1G190403
 Sample Matrix: GAS Fraction: SV
 Lab Smp Id: MK09T1AC Client Smp ID: EXM-SRU-M0010-RGTBL
 Level: LOW Operator: 11211
 Data Type: MS DATA SampleType: SAMPLE
 SpikeList File: icv.spk Quant Type: ISTD
 Sublist File: pah.sub
 Method File: /var/chem/gcms/mp.i/P072911.b/SIMPAH3.m
 Misc Info: P072911,SIMPAH3

SURROGATE COMPOUND	CONC ADDED ng/sample	CONC RECOVERED ng/sample	% RECOVERED	LIMITS
\$ 2 Naphthalene-d8 (SS)	500	386	77.29	30-120
\$ 222 13C6-Naphthalene	500	0.00	*	50-150
\$ 11 2-Methylnaphthalen	500	473	94.70	30-120
\$ 14 1-Methylnaphthalen	500	460	91.98	30-120
\$ 18 2,6-Dimethylnaph-d	500	483	96.63	30-120
\$ 21 Acenaphthylene-d8 (	500	560	112.05	30-120
\$ 26 Fluorene-d10	1000	1050	104.84	30-120 50-150
\$ 28 13C6-Fluorene	1000	984	98.40	30-120
\$ 35 Dibenzothiopene-d8	500	404	80.84	30-120
\$ 42 Phenanthrene-d10 (S	500	412	82.45	30-120
\$ 45 Anthracene-d10 (SS)	500	486	97.30	30-120
\$ 47 13C6-Anthracene	500	411	82.24	30-120
\$ 54 Fluoranthene-d10 (S	500	508	101.68	0-120
\$ 58 Terphenyl-d14	1000	1160	115.60	30-120 50-150
\$ 61 Benzo (a) anthracene	500	735	147.02*	30-120
\$ 64 Chrysene-d12 (SS)	500	453	90.64	30-120
\$ 71 Benzo (b) fluoranthe	500	586	117.27	30-120
\$ 74 Benzo (k) fluoranthe	500	405	81.03	30-120
\$ 79 Benzo (a) pyrene-d12	500	557	111.39	30-120
\$ 82 Perylene-d12 (SS)	500	500	100.00	30-120
\$ 85 Indeno (123-cd) pyre	500	531	106.19	30-120
\$ 88 Dibenz (ah) anthrace	500	518	103.70	30-120
\$ 91 Benzo (ghi) perylene	500	491	98.11	30-120

Data File: /var/chem/gcms/mp.i/P072911.b/mk09t1ac.d
 Date: 29-JUL-2014 13:26
 Client ID: EXH-SRU-M0010-RGTBL
 Sample Info: ,,,
 Purge Volume: 1.0
 Column Phase: Varian: SMS

Instrument: mp.i
 Operator: 11211
 Column diameter: 0.25



Data File: /var/chem/gcms/mp.i/P072911.b/mk09t1ao.d

Date : 29-JUL-2011 13:26

Client ID: EXM-SRU-M0010-RGTBL

Instrument: mp.i

Sample Info: ,0,,

Purge Volume: 1.0

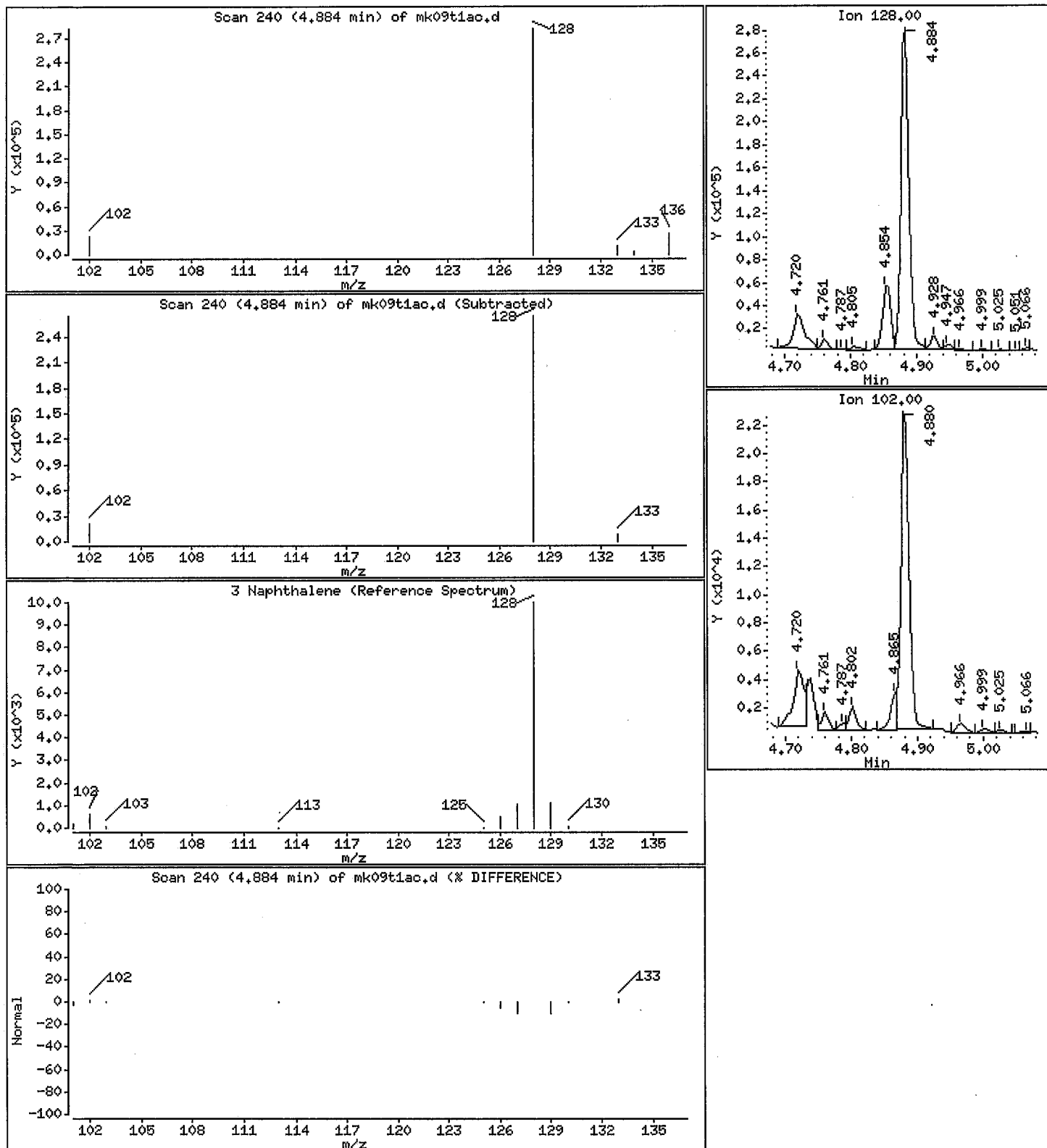
Operator: 11211

Column phase: Varian: 5MS

Column diameter: 0.25

3 Naphthalene

Concentration: 238 ng/sample



EM-BTRF-001178

Data File: /var/chem/gcms/mp.i/P072911.b/mk09t1ac.d

Date : 29-JUL-2011 13:26

Client ID: EXM-SRU-M0010-RGTBL

Instrument: mp.i

Sample Info: ,,0,,,

Purge Volume: 1.0

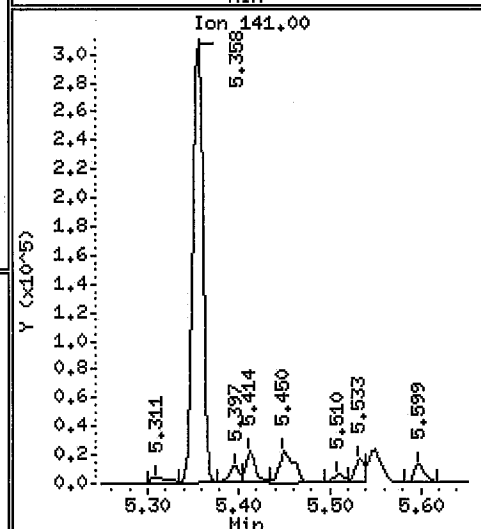
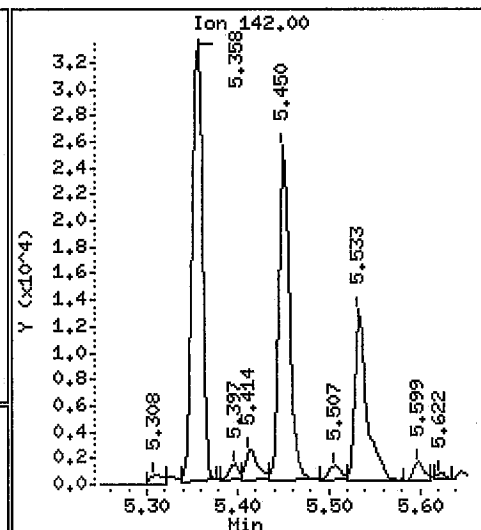
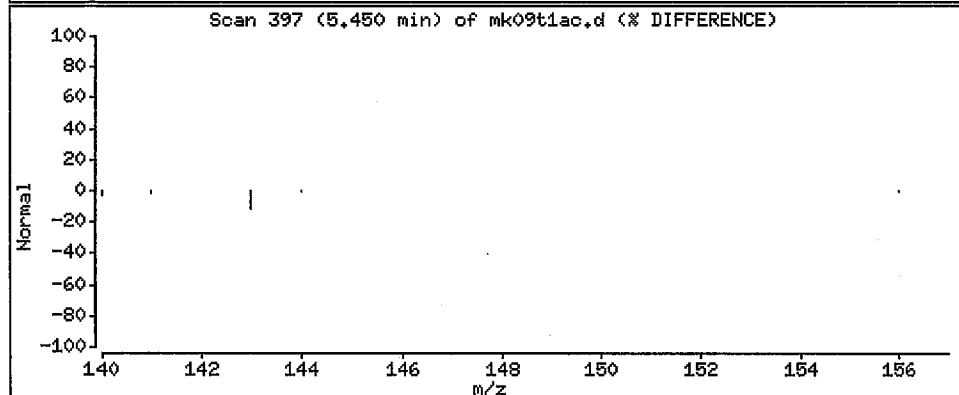
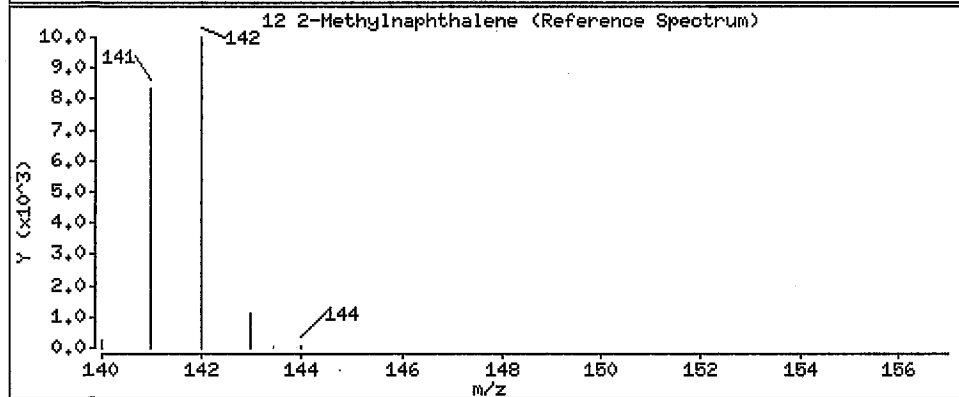
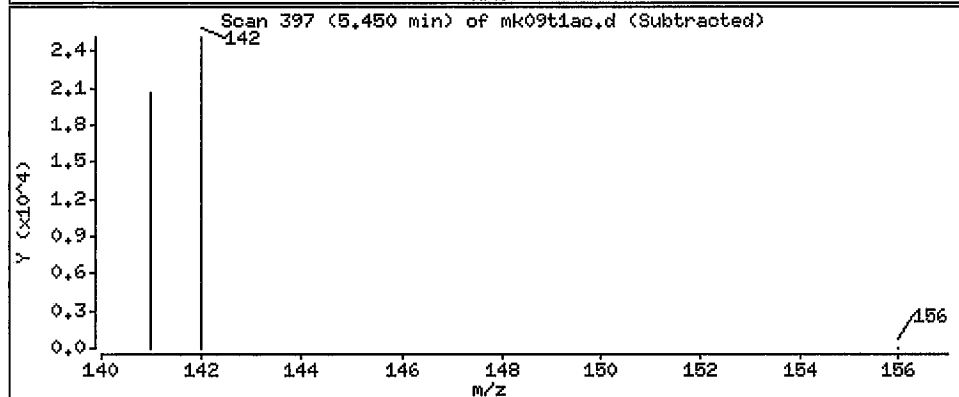
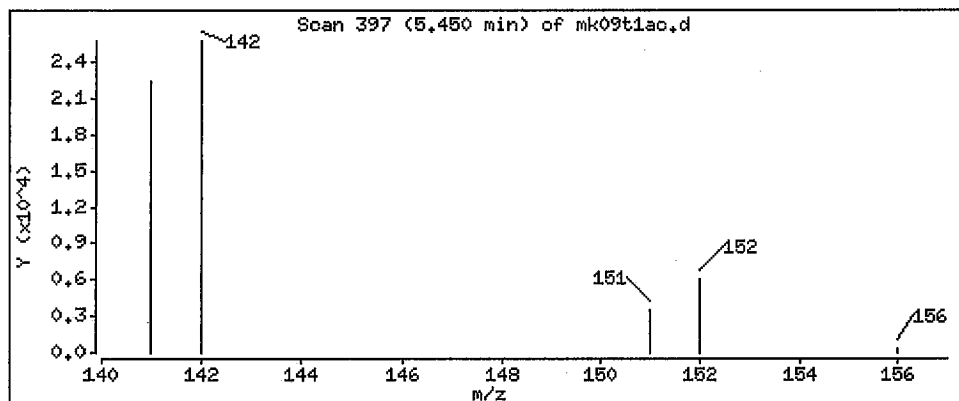
Operator: 11211

Column phase: Variant 5MS

Column diameter: 0.25

12 2-Methylnaphthalene

Concentration: 26.2 ng/sample



Data File: /var/chem/gcms/mp.i/P072911.b/mk09t1ao.d

Date : 29-JUL-2011 13:26

Client ID: EXM-SRU-M0010-RGTBL

Instrument: mp.i

Sample Info: ,,0,,,

Purge Volume: 1.0

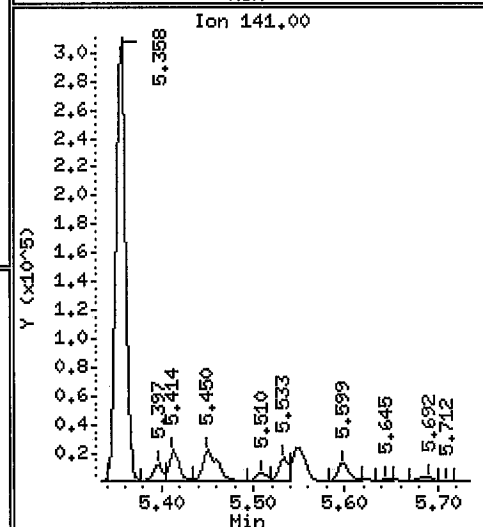
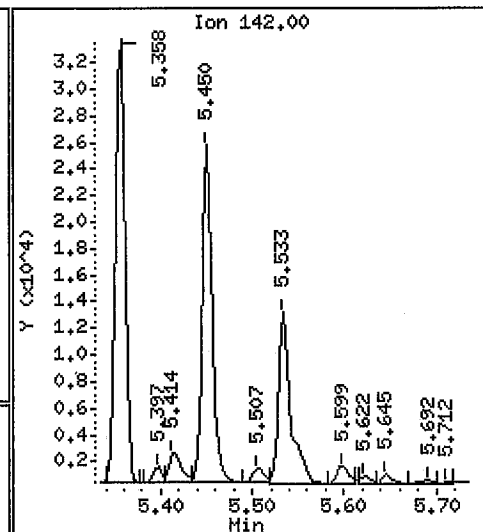
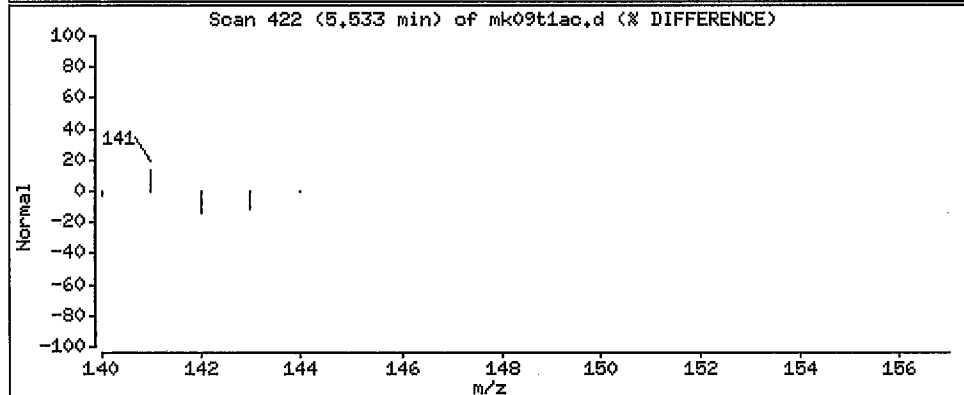
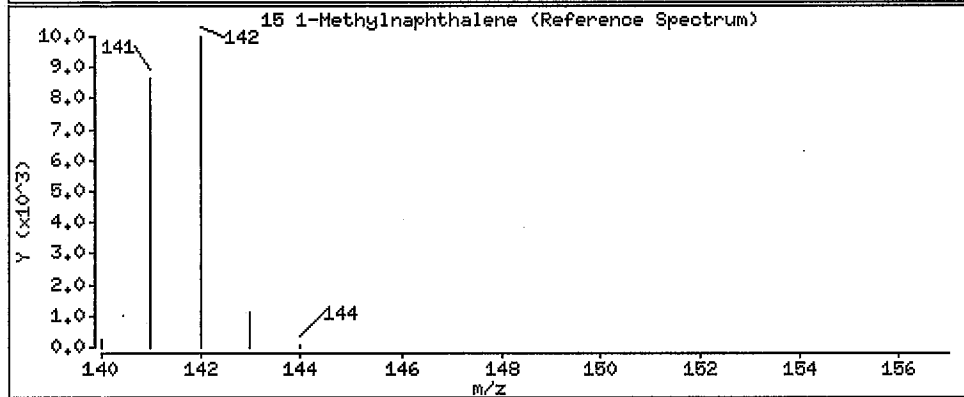
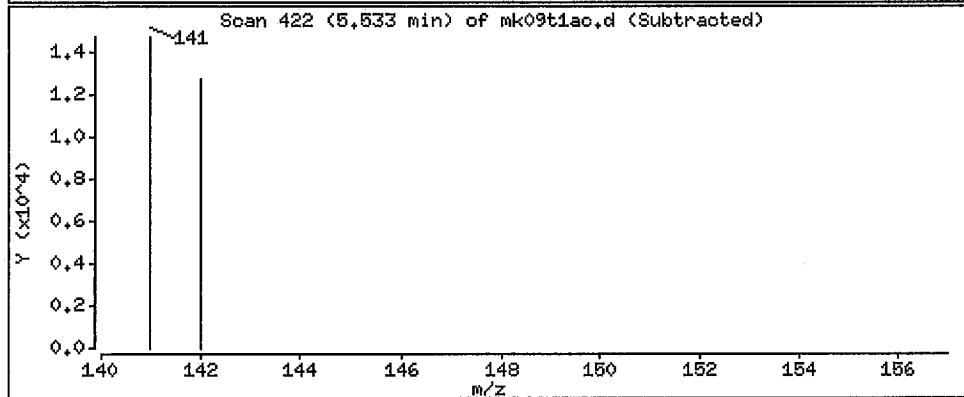
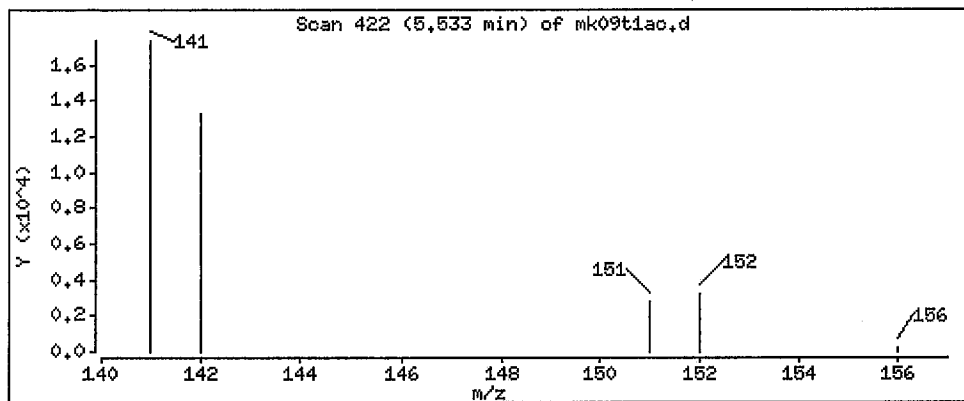
Operator: 11211

Column phase: Varian: 5MS

Column diameter: 0.25

15 1-Methylnaphthalene

Concentration: 17.2 ng/sample



Data File: /var/chem/gcms/mp.i/P072911.b/mk09t1ac.d

Date : 29-JUL-2011 13:26

Client ID: EXM-SRU-M0010-RGTBL

Instrument: mp.i

Sample Info: ,,0,,,

Purge Volume: 1.0

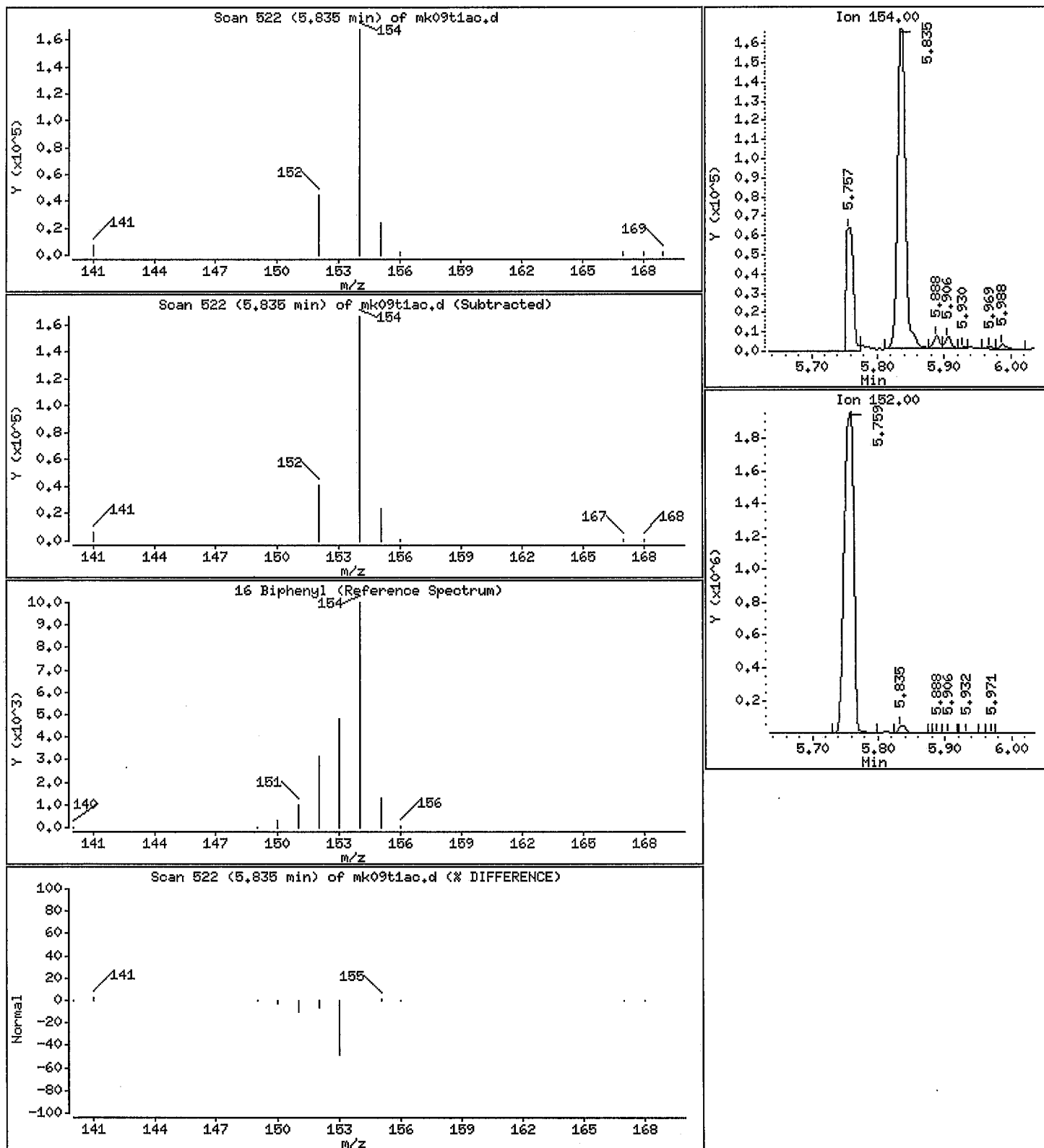
Operator: 11211

Column phase: Variant: 5MS

Column diameter: 0.25

16 Biphenyl

Concentration: 146 ng/sample



Data File: /var/chem/gcms/mp.i/P072911.b/mk09t1ao.d

Date: 29-JUL-2011 13:26

Client ID: EXM-SRU-M0010-RGTBL

Instrument: mp.i

Sample Info: ,,0,,,

Purge Volume: 1.0

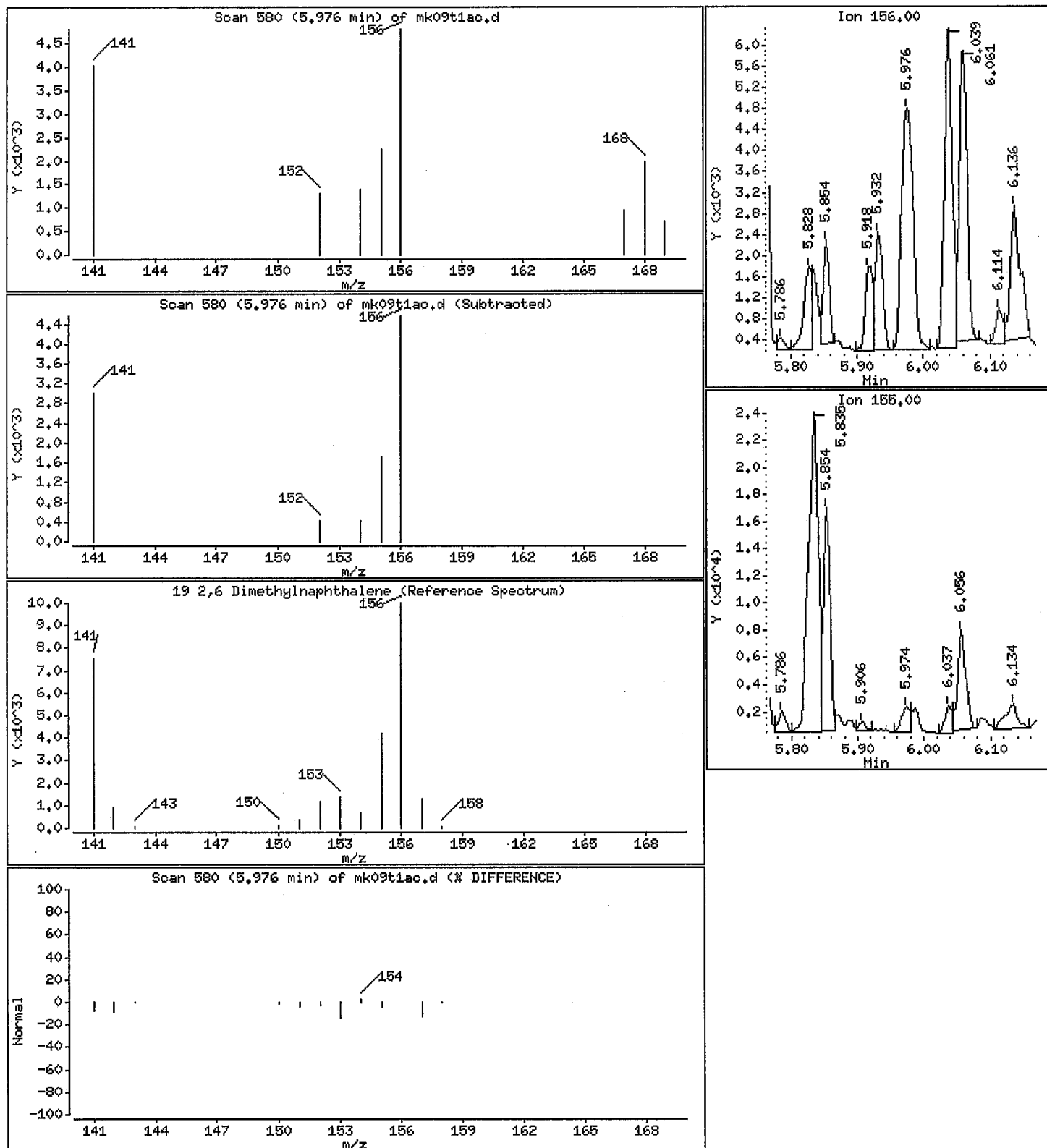
Operator: 11211

Column phase: Varian: 5MS

Column diameter: 0.25

19 2,6 Dimethylnaphthalene

Concentration: 8.52 ng/sample



EM-BTRF-001182

Data File: /var/chem/gcms/mp.i/P072911.b/mk09t1ao.d

Date : 29-JUL-2011 13:26

Client ID: EXM-SRU-M0010-RGTBL

Instrument: mp.i

Sample Info: ,0,0,,

Purge Volume: 1.0

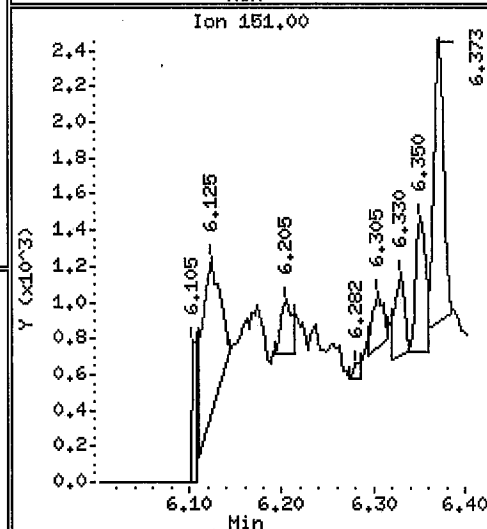
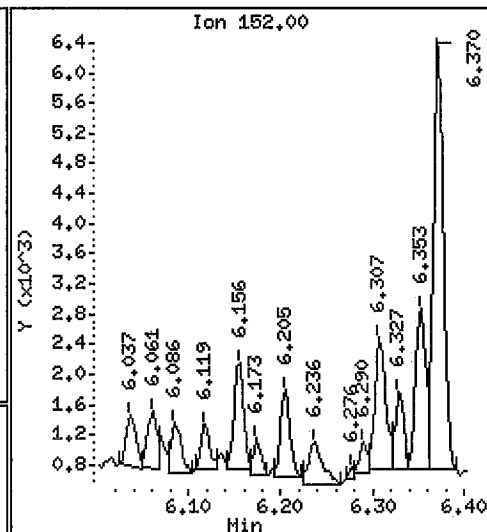
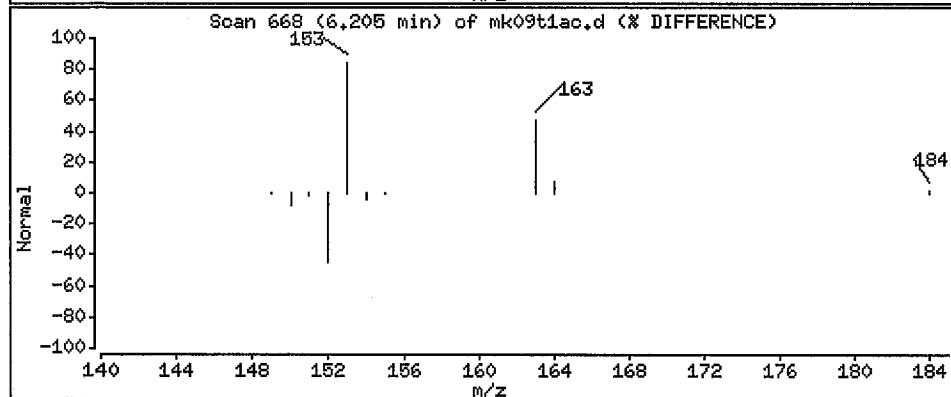
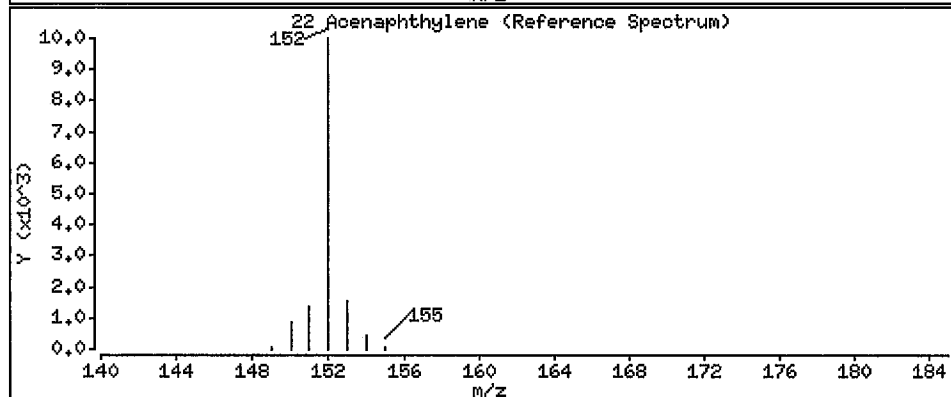
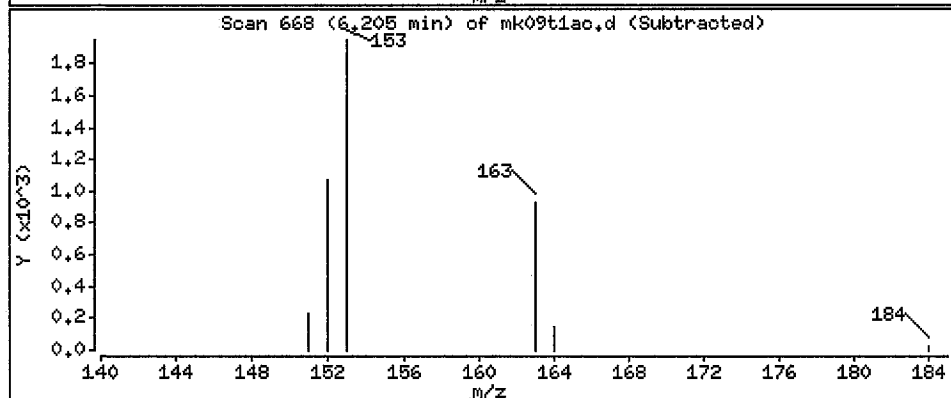
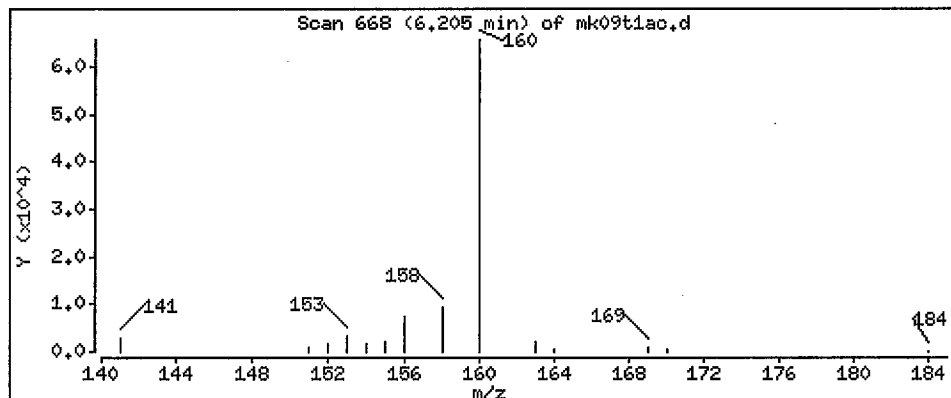
Operator: 11211

Column phase: Varian: 5MS

Column diameter: 0.25

22 Acenaphthylene

Concentration: 0.674 ng/sample



Data File: /var/chem/gcms/mp.i/P072911.b/mk09t1ao.d

Date : 29-JUL-2011 13:26

Client ID: EXM-SRU-M0010-RGTBL

Instrument: mp.i

Sample Info: ,0,,

Purge Volume: 1.0

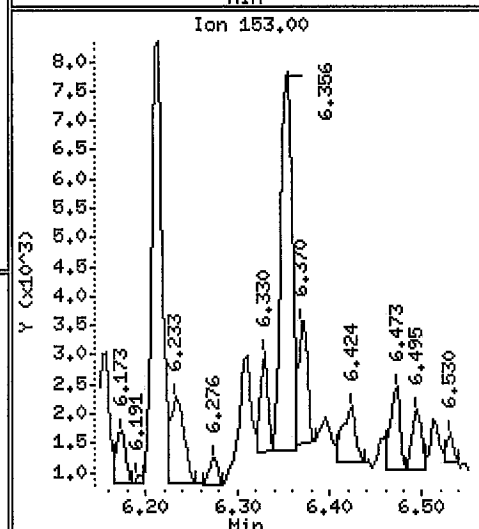
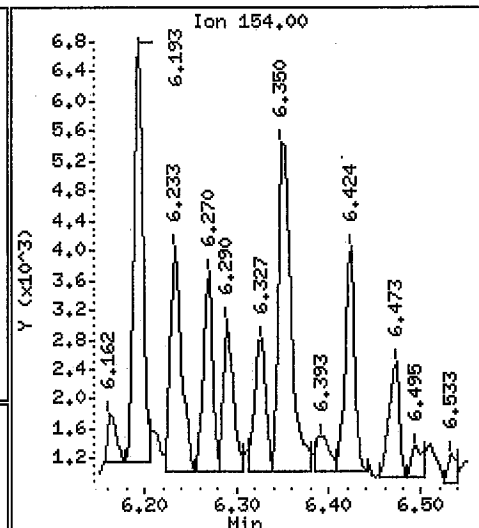
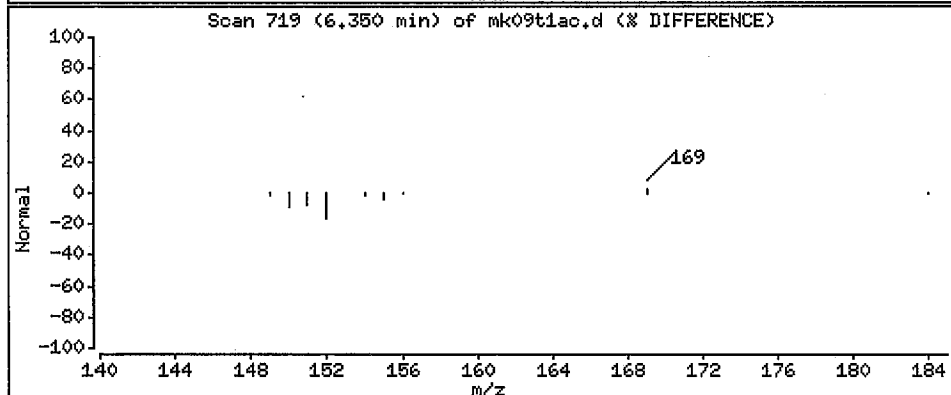
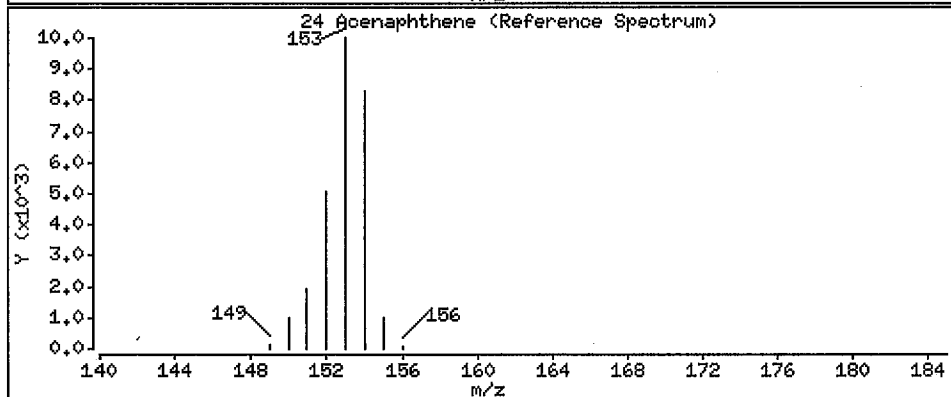
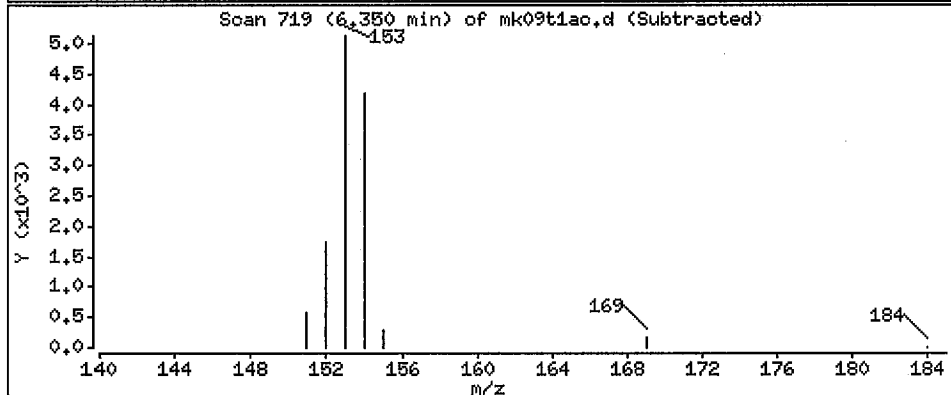
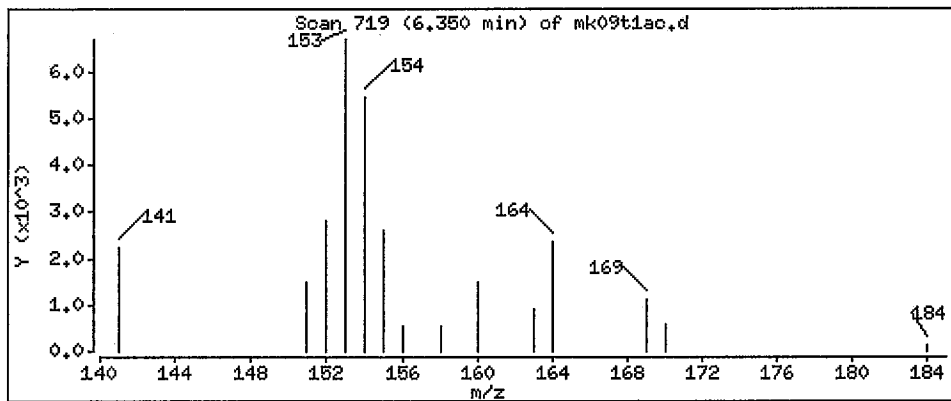
Operator: 11211

Column phase: Variant: 5MS

Column diameter: 0.25

24 Acenaphthene

Concentration: 5.69 ng/sample



Data File: /var/chem/gcms/mp.i/P072911.b/mk09t1ao.d

Date: 29-JUL-2011 13:26

Client ID: EXM-SRU-H0010-RGTBL

Instrument: mp.i

Sample Info: ,,0,,,

Purge Volume: 1.0

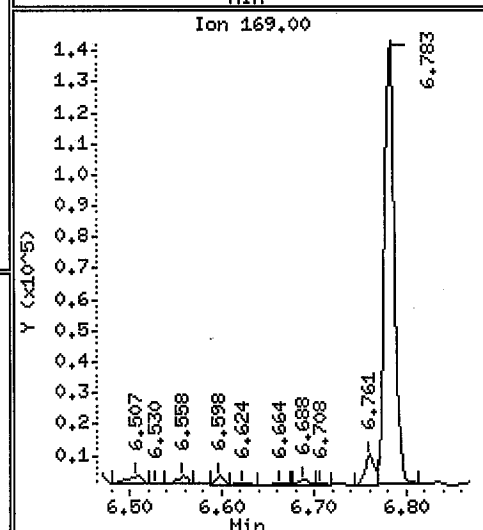
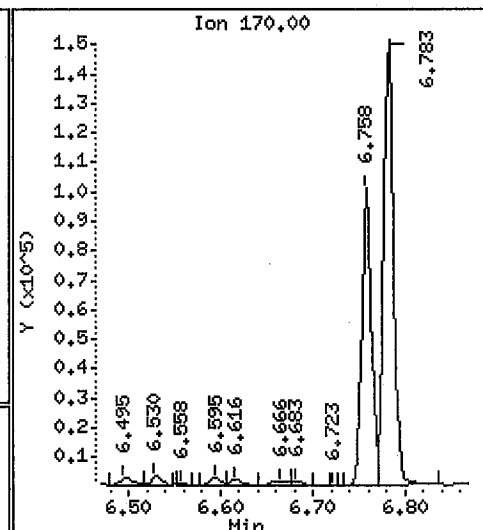
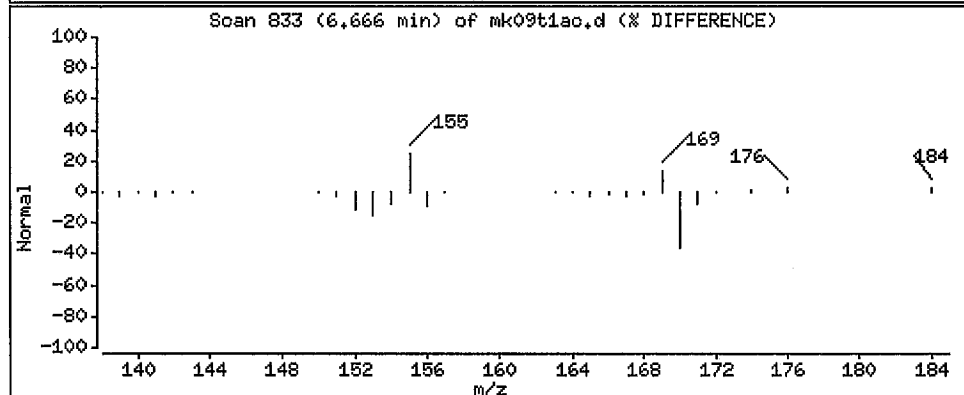
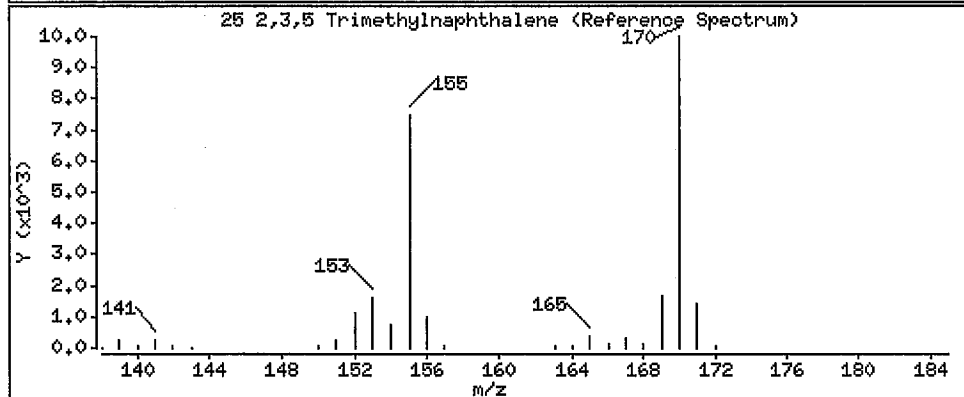
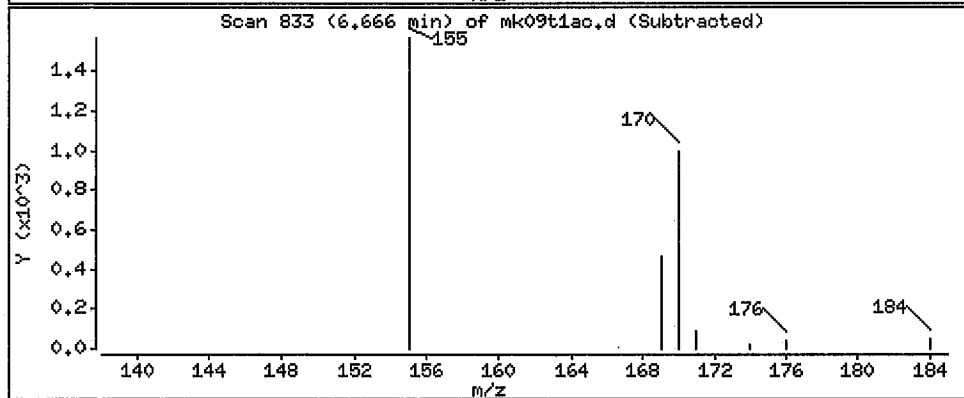
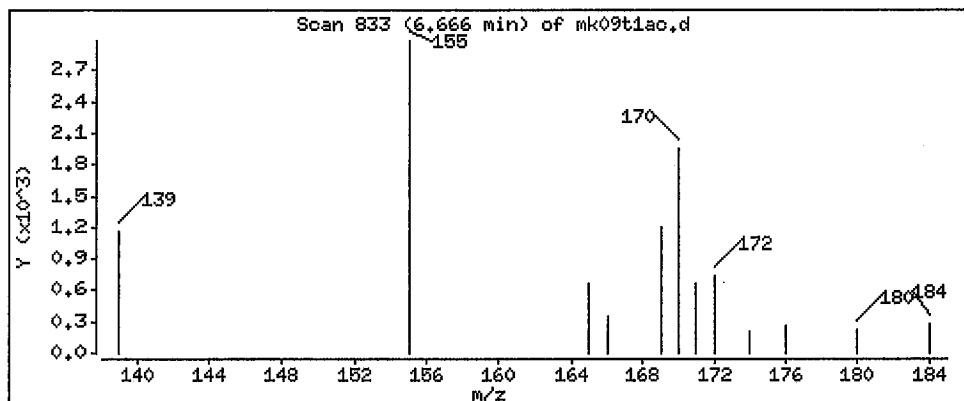
Operator: 11211

Column phase: Varian: SMS

Column diameter: 0.25

25 2,3,5 Trimethylnaphthalene

Concentration: 3.69 ng/sample



Data File: /var/chem/gcms/mp.i/P072911.b/mk09t1ac.d

Date : 29-JUL-2011 13:26

Client ID: EXM-SRU-M0010-RGTBL

Instrument: mp.i

Sample Info: ,0,,,

Purge Volume: 1.0

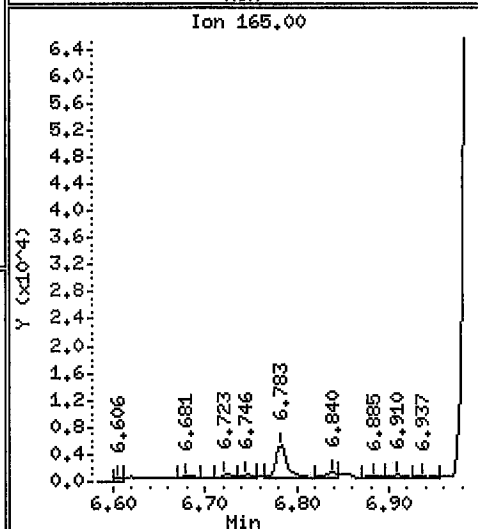
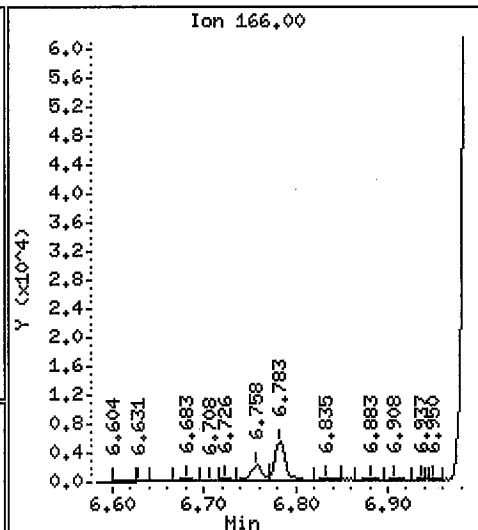
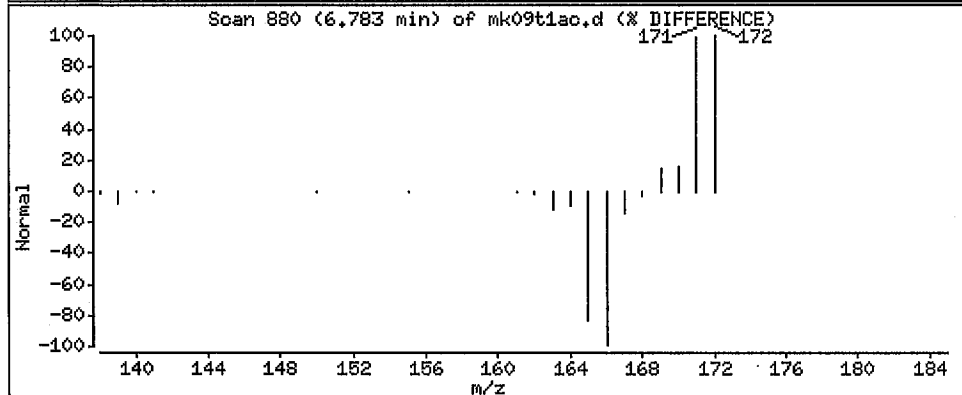
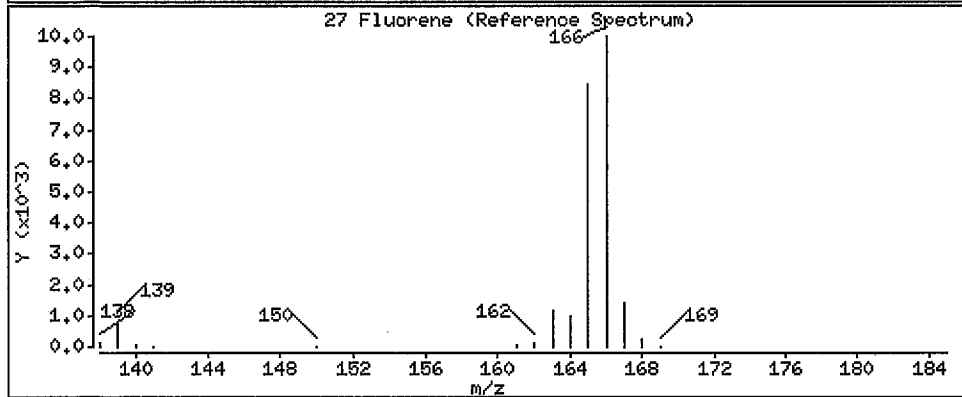
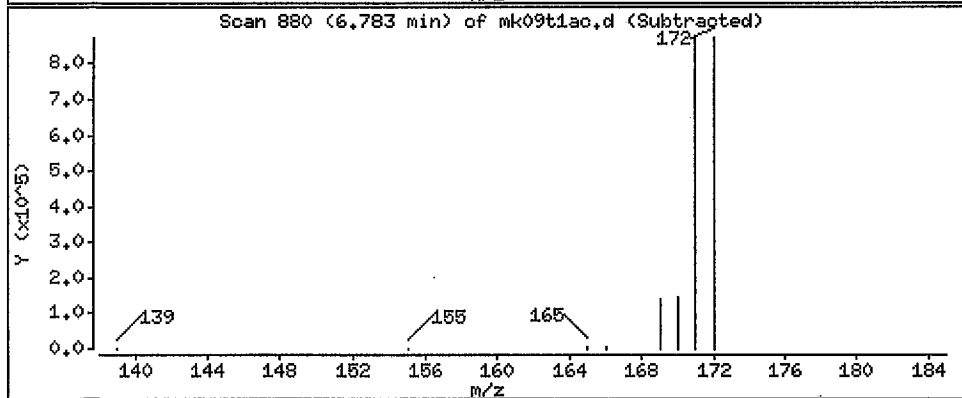
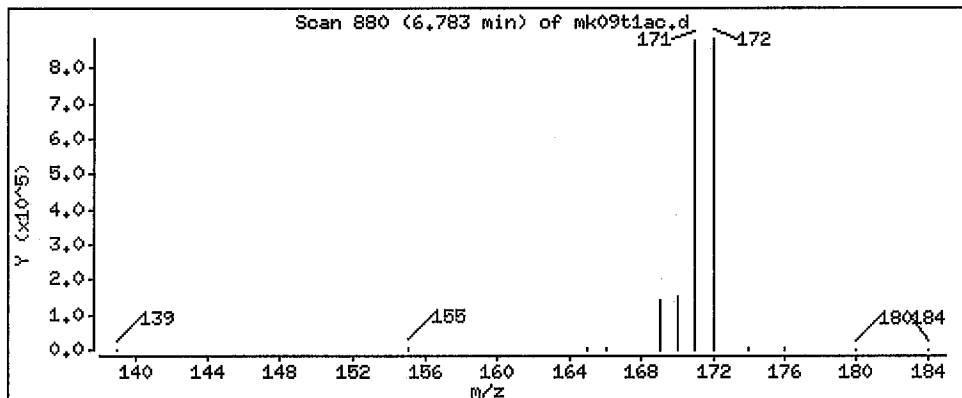
Operator: 11211

Column phase: Varian: 5MS

Column diameter: 0.25

27 Fluorene

Concentration: 5.39 ng/sample



EM-BTRF-001186

Data File: /var/chem/gcms/mp.i/P072911.b/mk09t1ao.d

Date : 29-JUL-2011 13:26

Client ID: EXM-SRU-M0010-RGTBL

Instrument: mp.i

Sample Info: ,,0,,

Purge Volume: 1.0

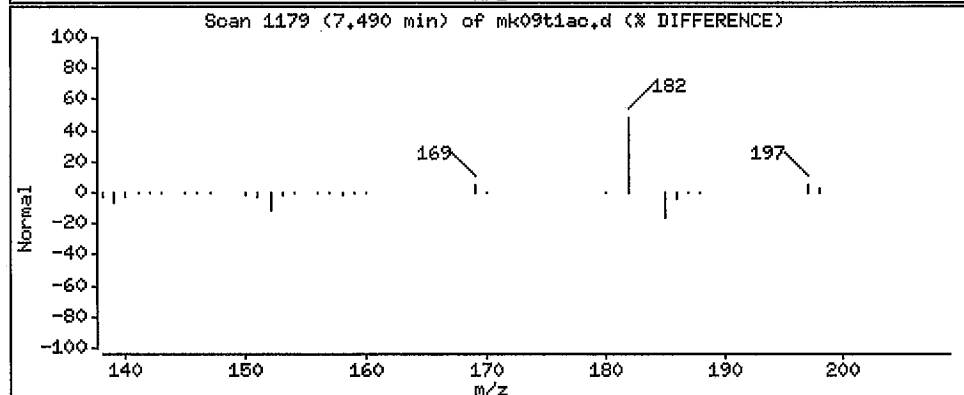
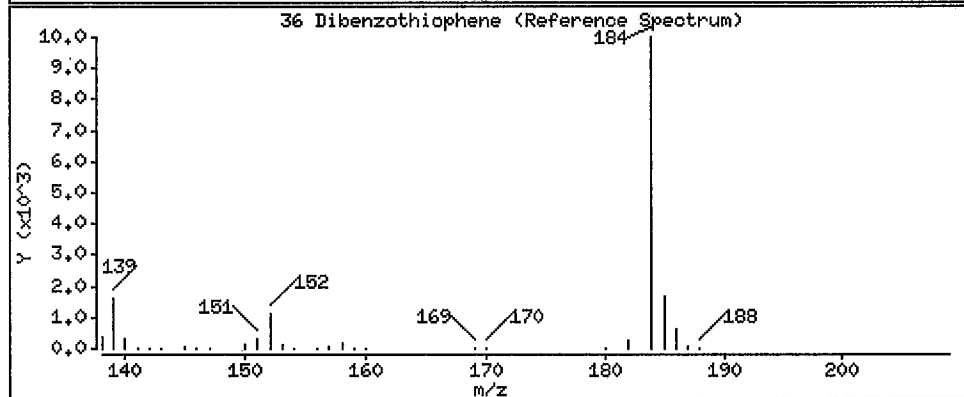
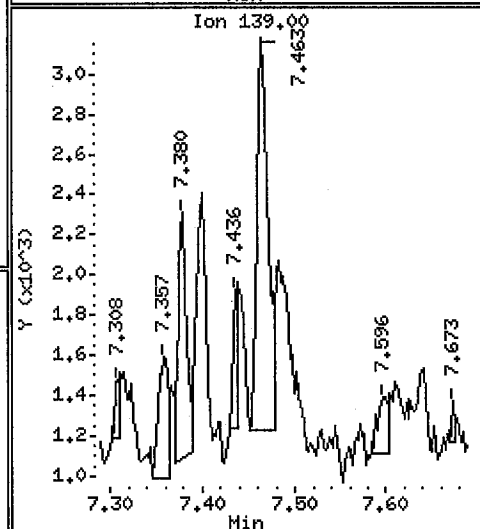
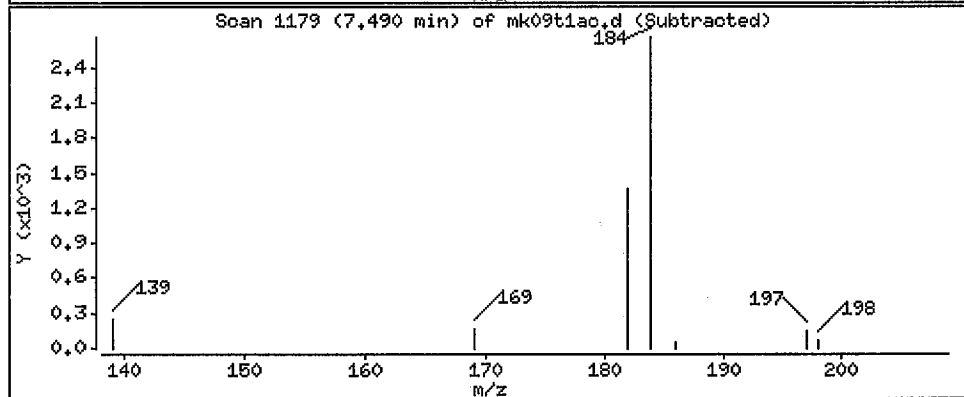
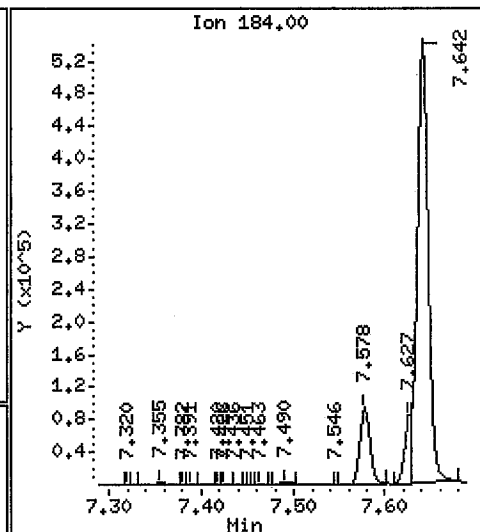
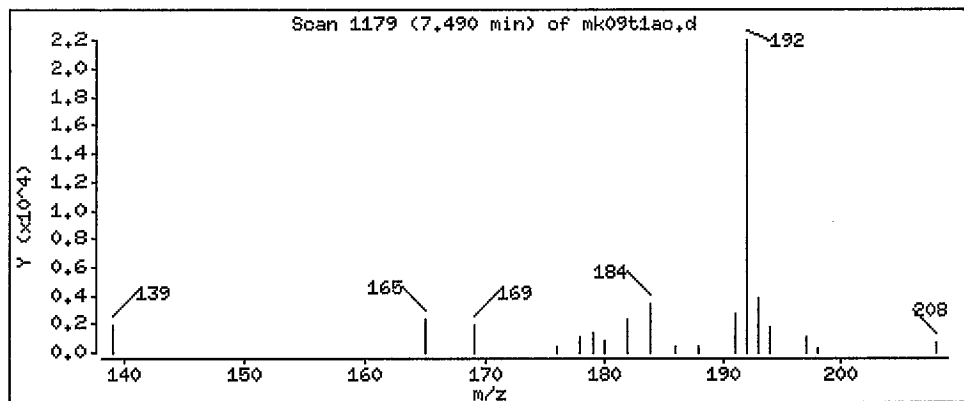
Operator: 11211

Column phase: Variant: 5MS

Column diameter: 0.25

36 Dibenzothiophene

Concentration: 2.42 ng/sample



EM-BTRF-001187

Data File: /var/chem/gcms/mp.i/P072911.b/mk09t1ao.d

Date : 29-JUL-2011 13:26

Client ID: EXH-SRU-H0010-RGTBL

Instrument: mp.i

Sample Info: ,,0,,,

Purge Volume: 1.0

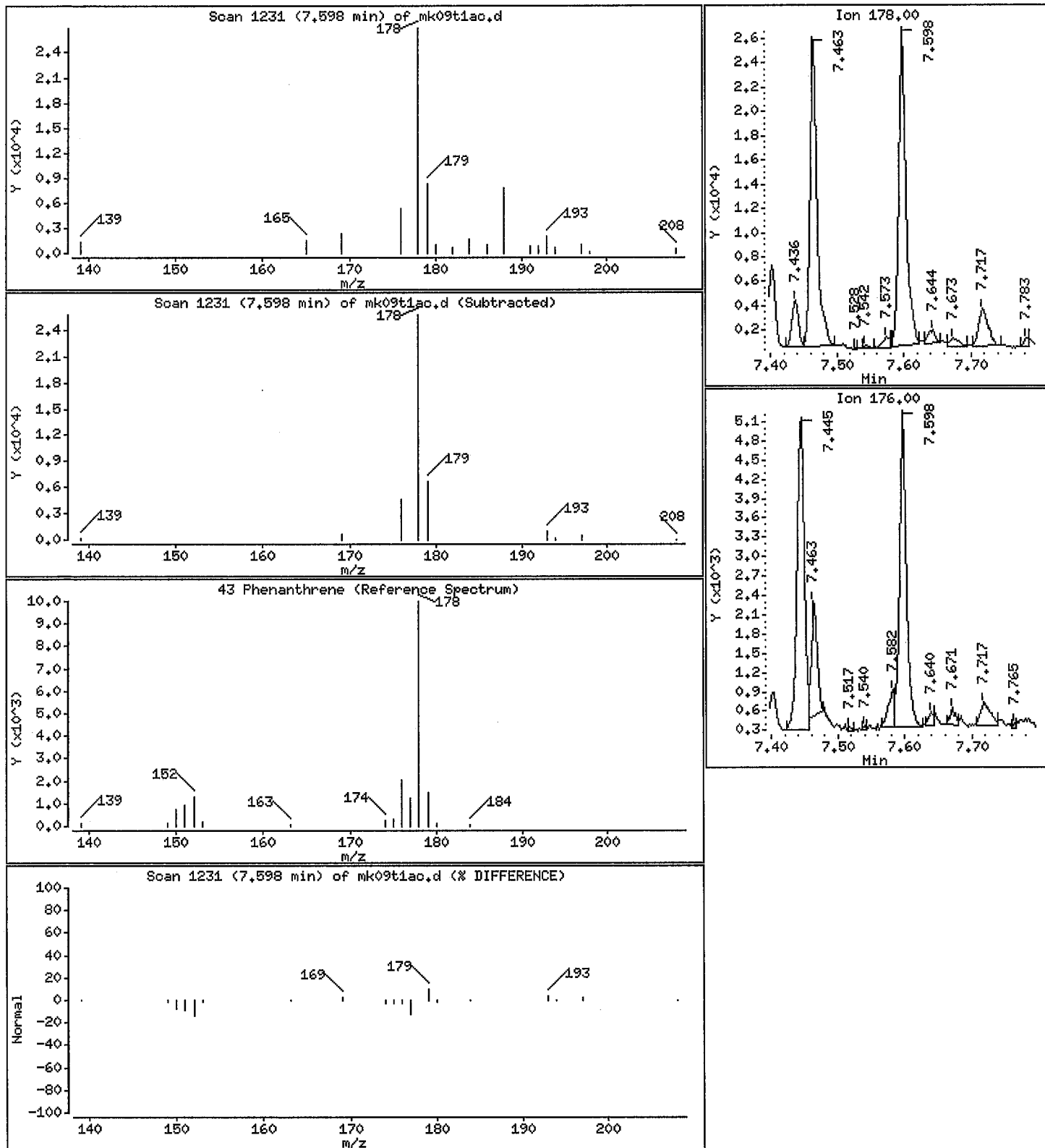
Operator: 11211

Column phase: Varian: 5MS

Column diameter: 0.25

43 Phenanthrene

Concentration: 20.3 ng/sample



EM-BTRF-001188

Data File: /var/chem/gcms/mp.i/P072911.b/mk09t1ao.d

Date : 29-JUL-2011 13:26

Client ID: EXM-SRU-M0010-RGTBL

Instrument: mp.i

Sample Info: ,,0,,,

Purge Volume: 1.0

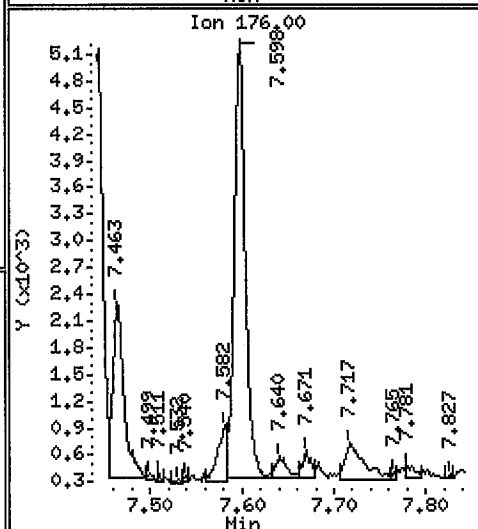
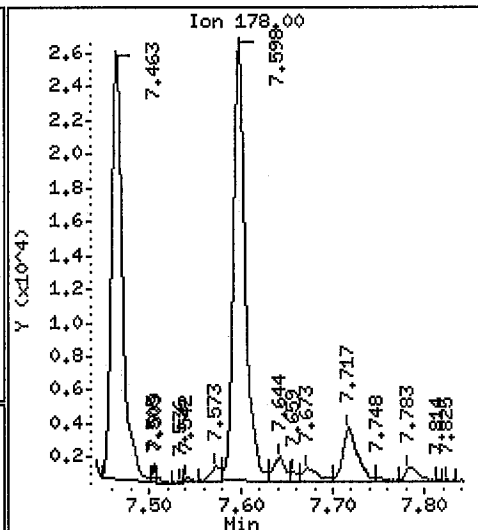
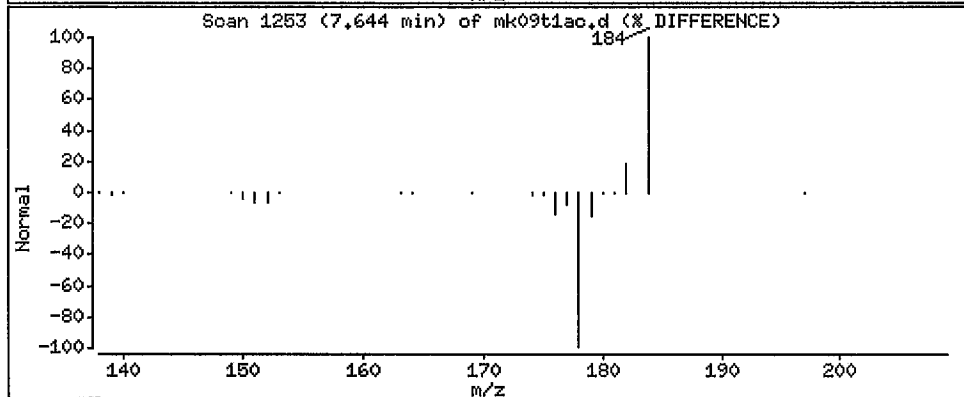
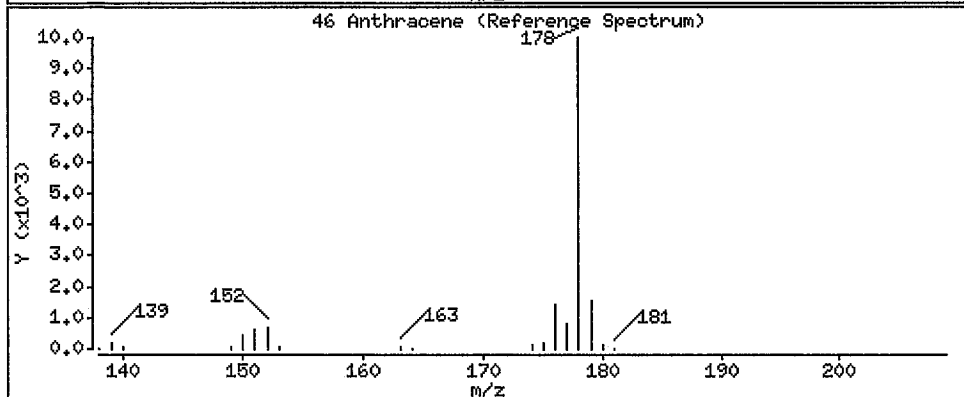
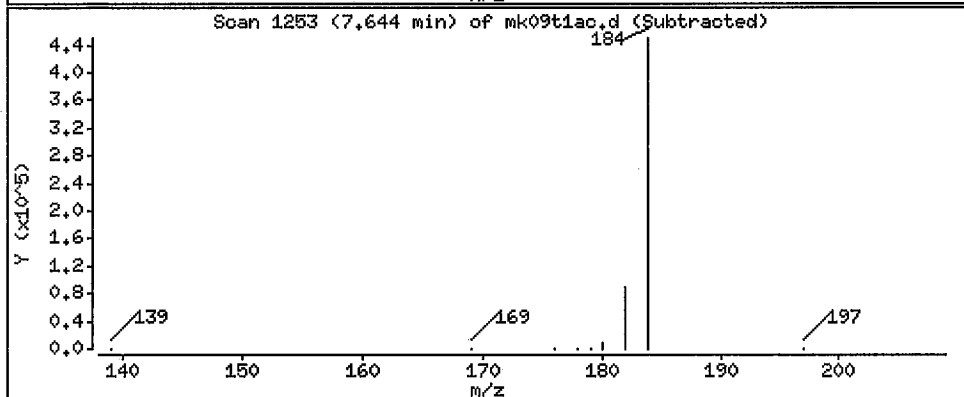
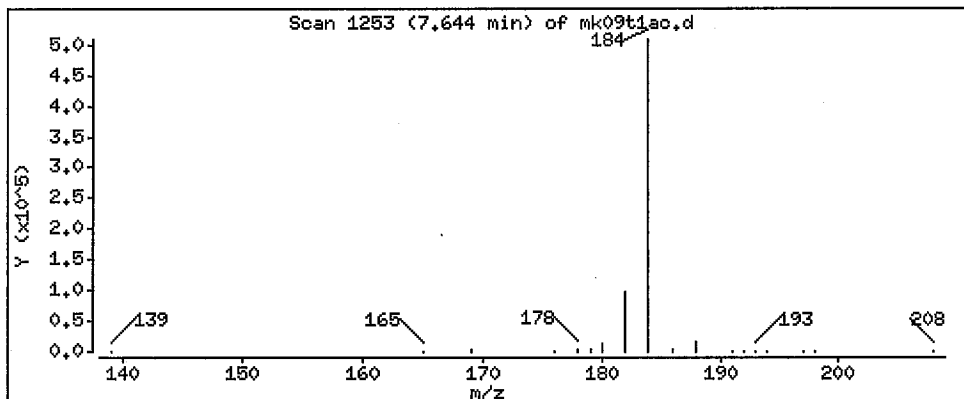
Operator: 11211

Column phase: Varian: 5MS

Column diameter: 0.25

46 Anthracene

Concentration: 1.11 ng/sample



Data File: /var/chem/gcms/mp.i/P072911.b/mk09t1ac.d

Date: 29-JUL-2011 13:26

Client ID: EXH-SRU-M0010-RGTBL

Instrument: mp.i

Sample Info: ,,0,,

Purge Volume: 1.0

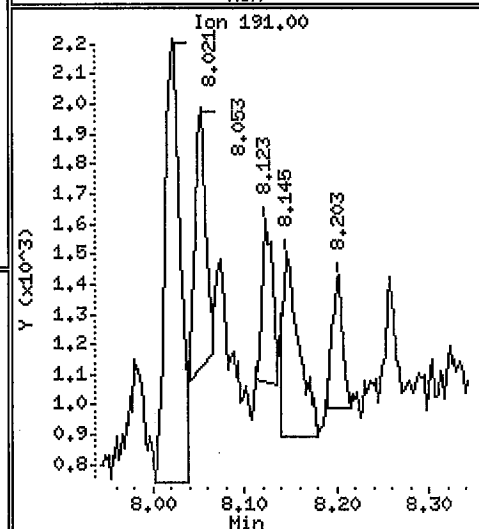
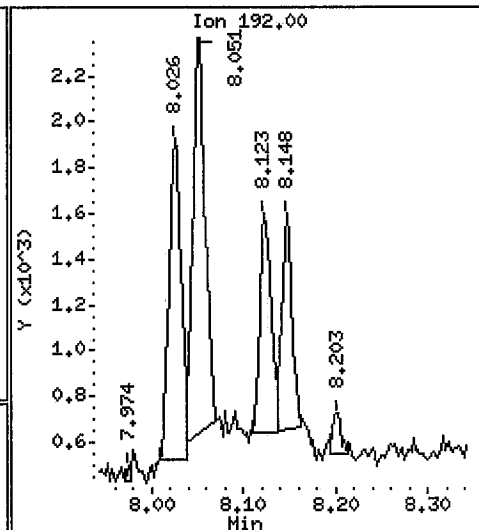
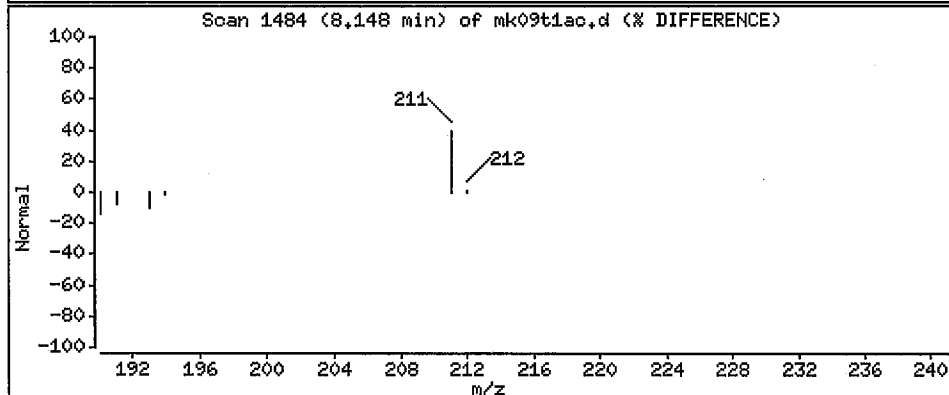
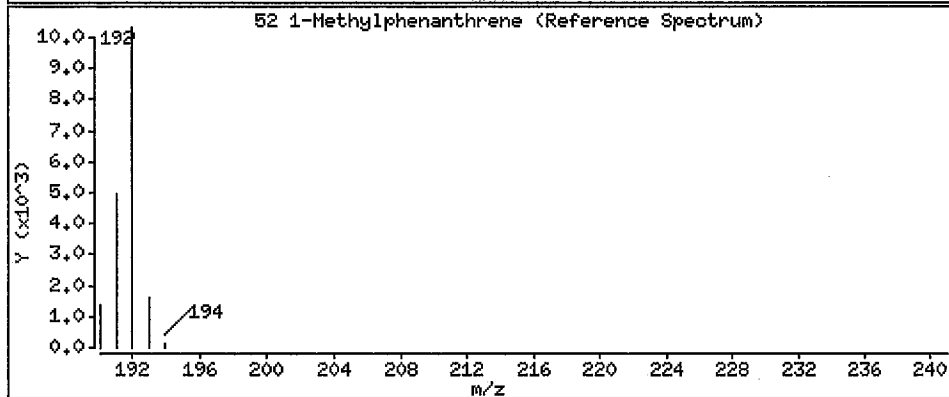
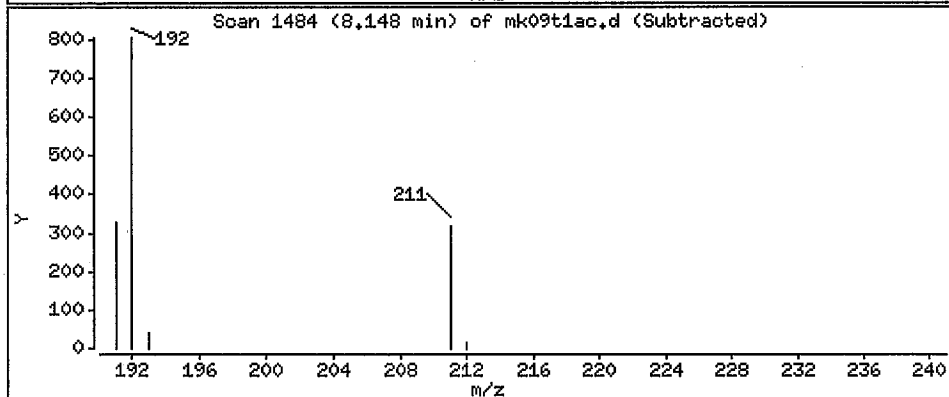
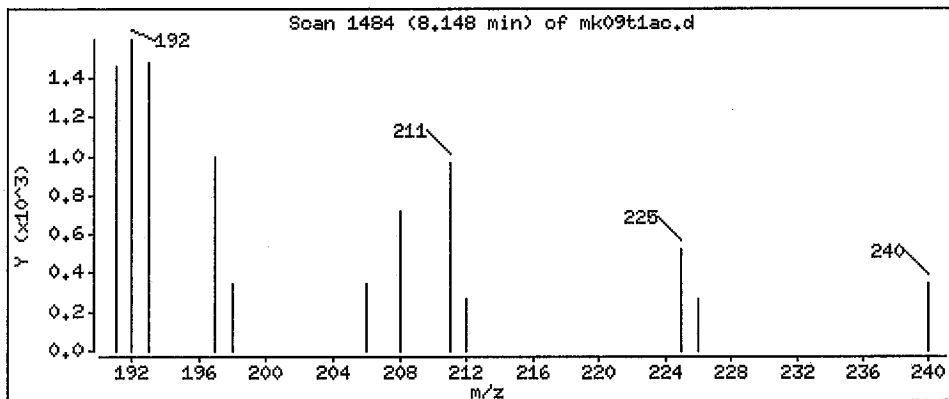
Operator: 11211

Column phase: Varian: 5MS

Column diameter: 0.25

52 1-Methylphenanthrene

Concentration: 1.15 ng/sample



Data File: /var/chem/gcms/mp.i/P072911.b/mk09t1ao.d

Date : 29-JUL-2011 13:26

Client ID: EXM-SRU-M0010-RGTBL

Instrument: mp.i

Sample Info: ,,0,,

Purge Volume: 1.0

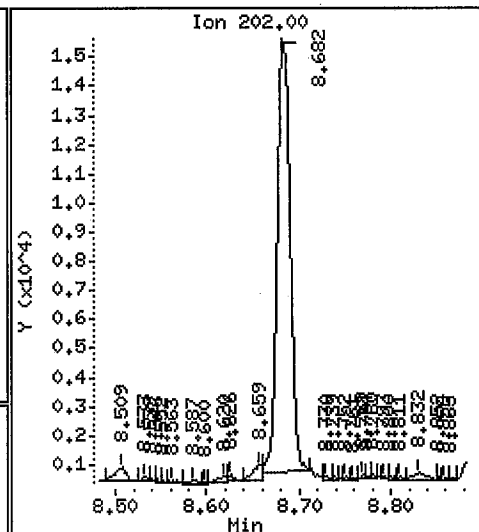
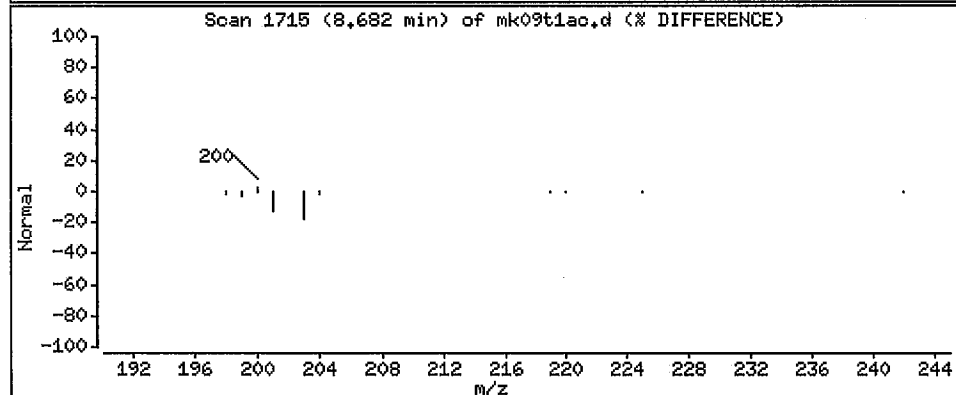
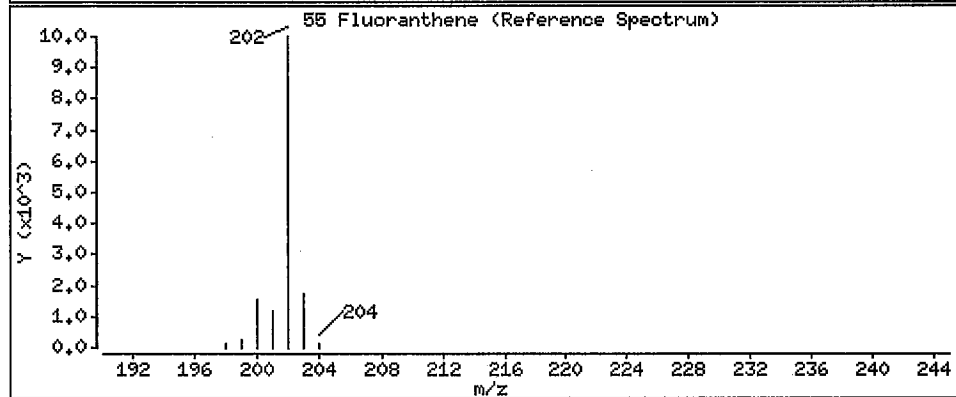
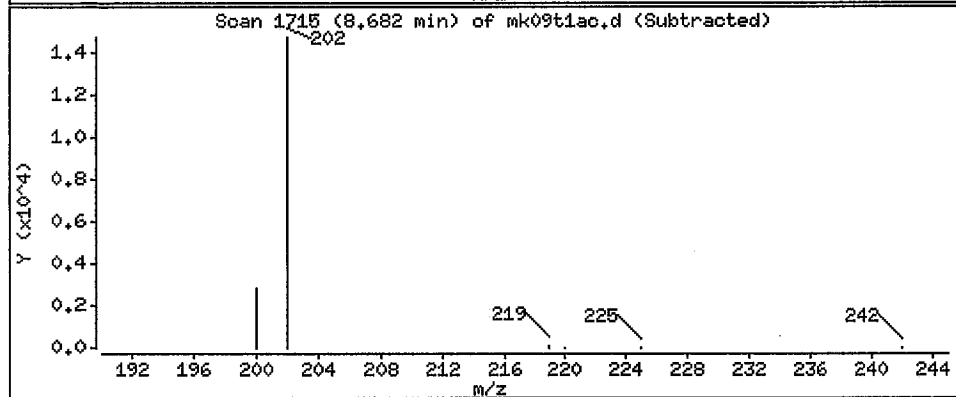
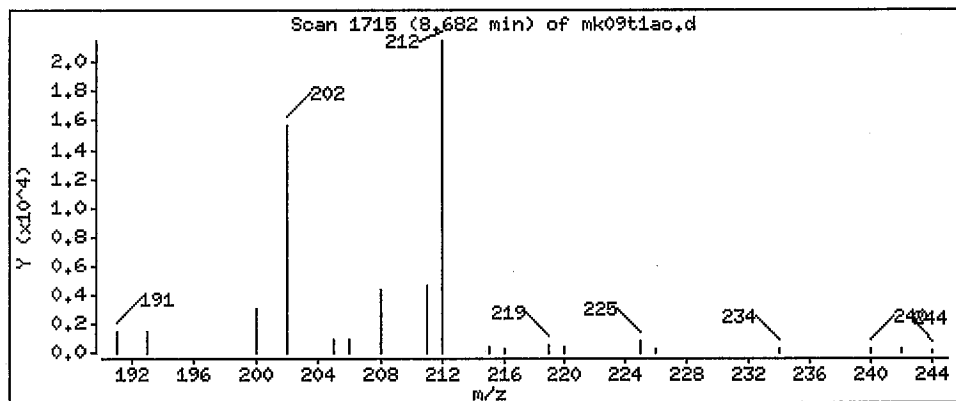
Operator: 11211

Column phase: Varian: 5MS

Column diameter: 0.25

55 Fluoranthene

Concentration: 10.0 ng/sample



Data File: /var/chem/gcms/mp.i/P072911.b/mk09t1ao.d

Date: 29-JUL-2011 13:26

Client ID: EXM-SRU-M0010-RGTBL

Instrument: mp.i

Sample Info: ,,0,,,

Purge Volume: 1.0

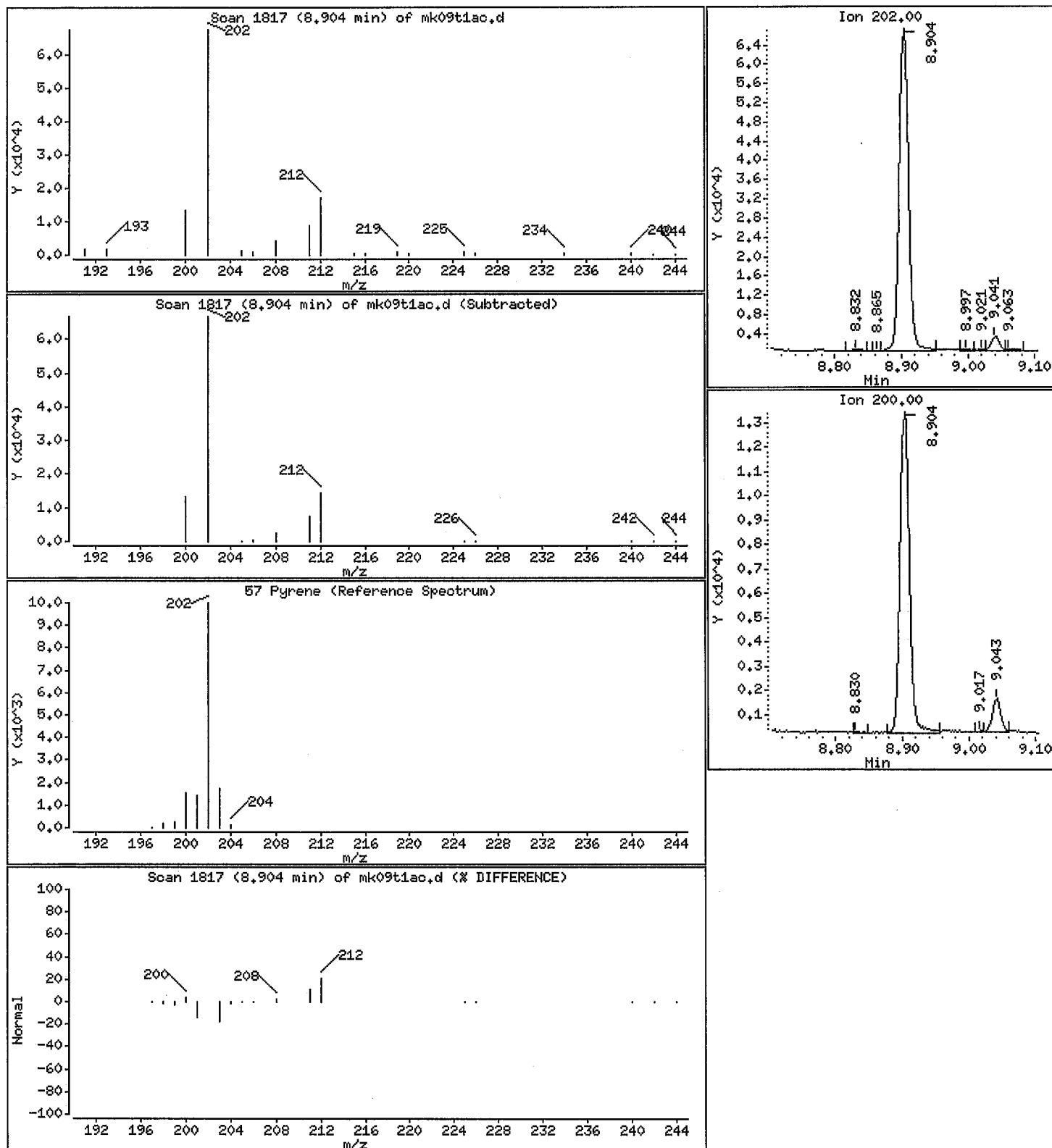
Operator: 11211

Column phase: Varian: 5MS

Column diameter: 0.25

57 Pyrene

Concentration: 43.0 ng/sample



EM-BTRF-001192

Data File: /var/chem/gcms/mp.i/P072911.b/mk09t1ac.d

Date : 29-JUL-2011 13:26

Client ID: EXH-SRU-M0010-RGTBL

Instrument: mp.i

Sample Info: ,,0,,

Purge Volume: 1.0

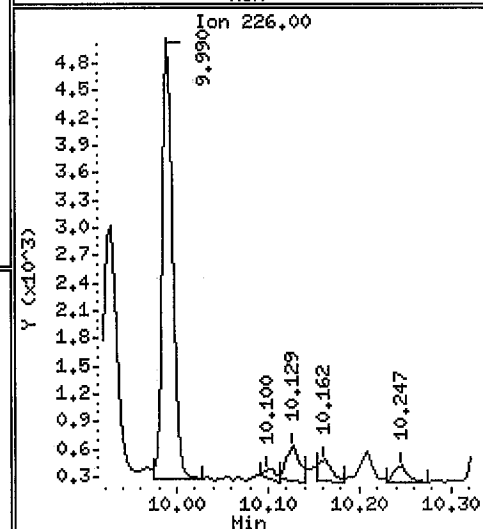
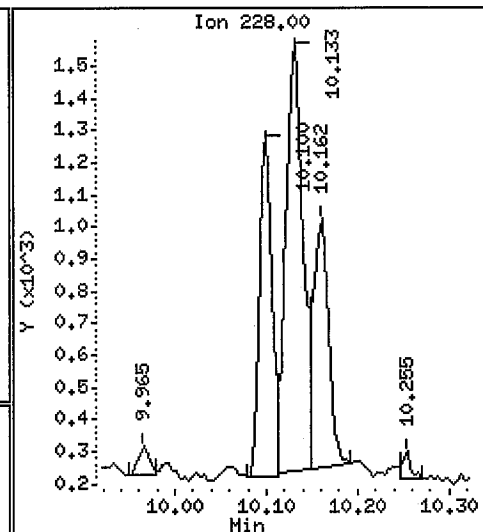
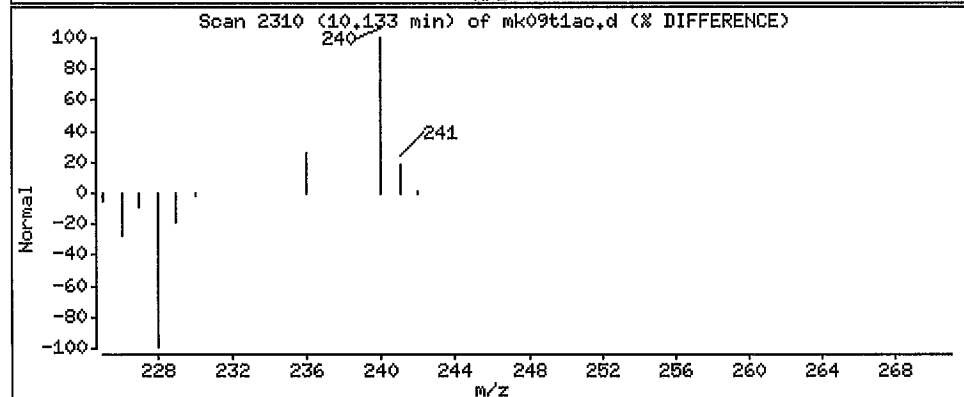
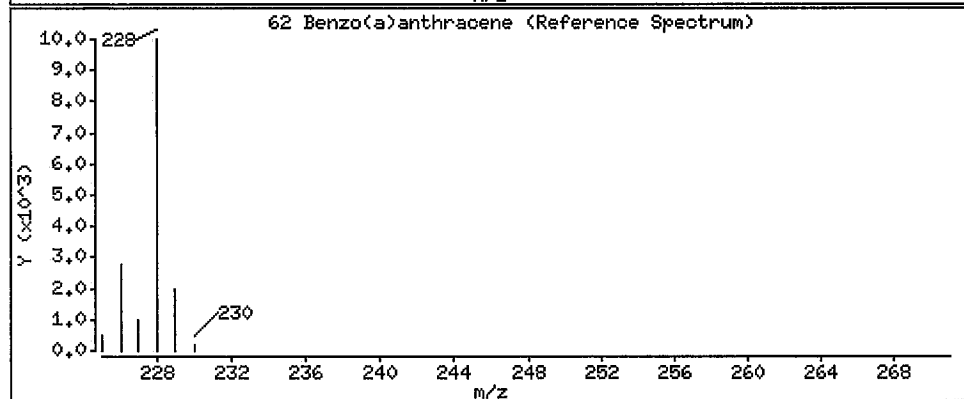
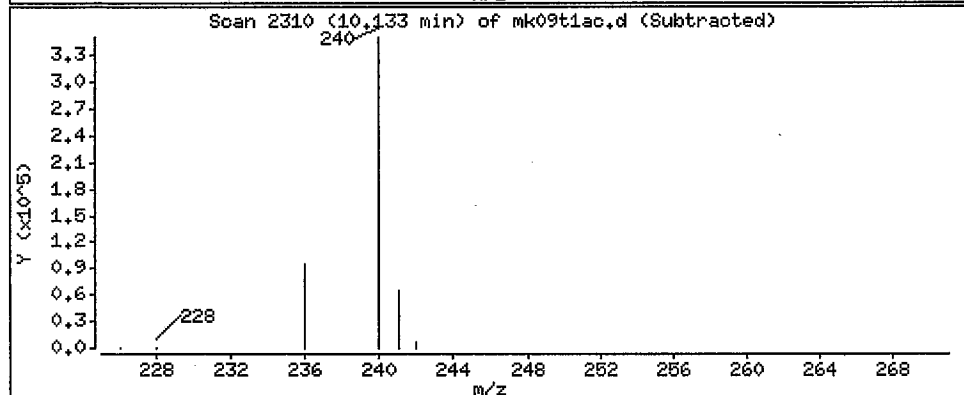
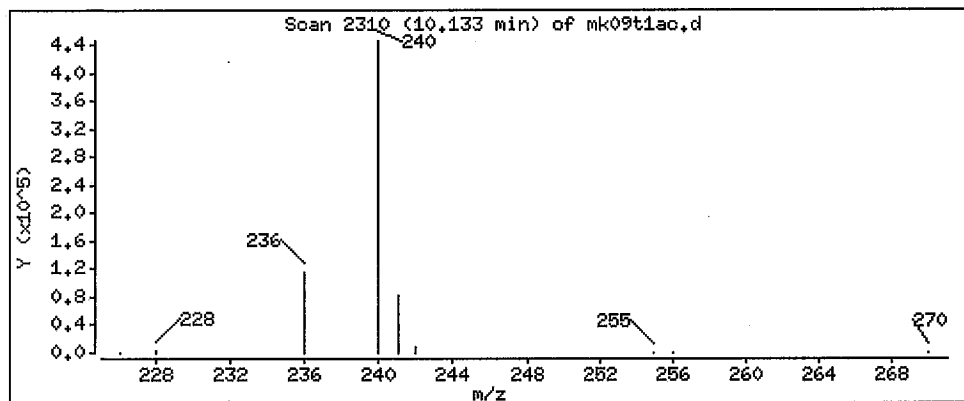
Operator: 60487

Column phase: Varian: 5MS

Column diameter: 0.25

62 Benzo(a)anthracene

Concentration: 0.708 ng/sample



Data File: /var/chem/gcms/mp.i/P072911.b/mk09t1ac.d

Date : 29-JUL-2011 13:26

Client ID: EXM-SRU-M0010-RGTBL

Instrument: mp.i

Sample Info: ,,0,,,

Purge Volume: 1.0

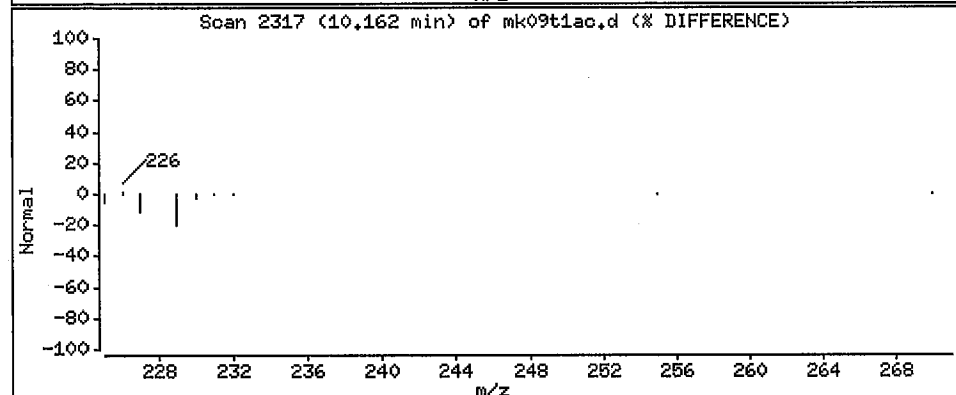
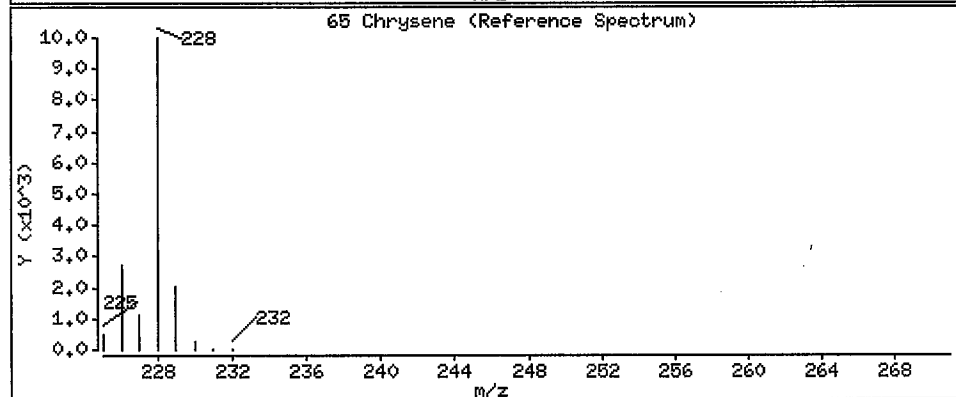
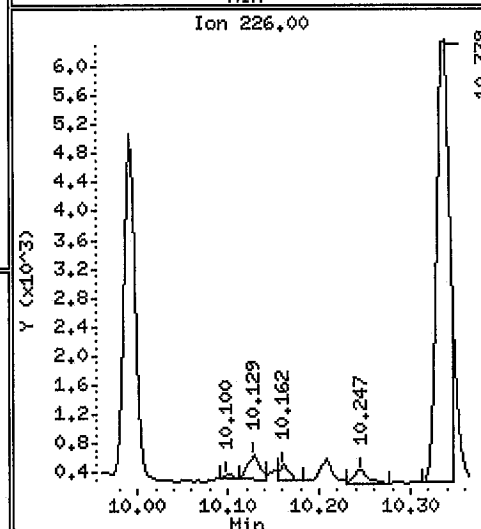
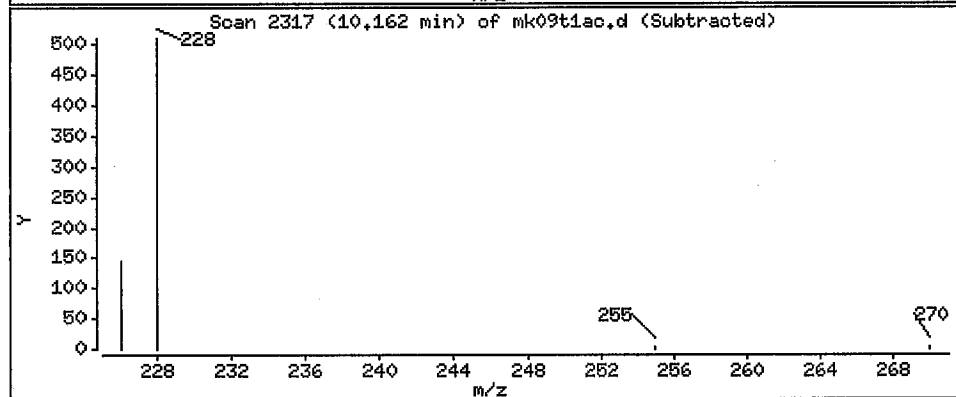
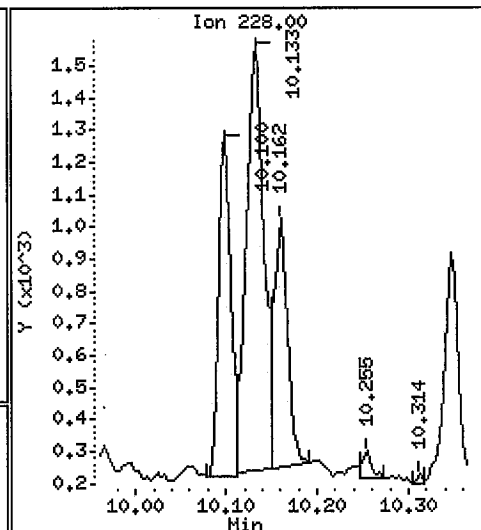
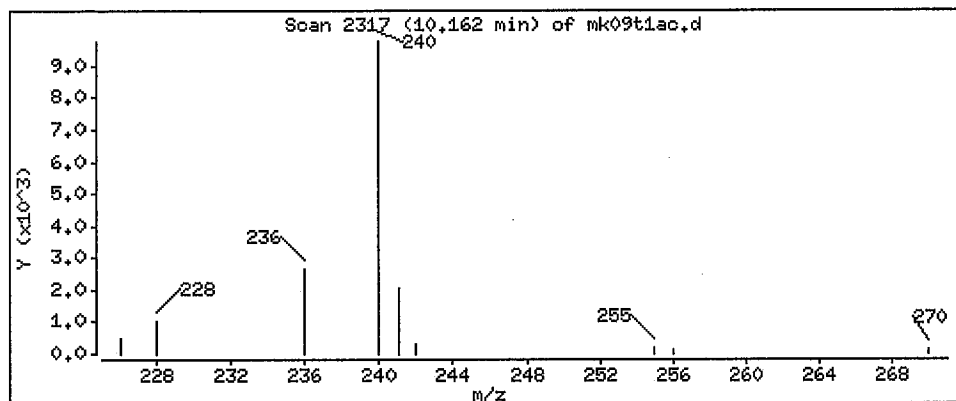
Operator: 11211

Column phase: Varian: 5MS

Column diameter: 0.25

65 Chrysene

Concentration: 0.937 ng/sample



EM-BTRF-001194

Data File: /var/chem/gcms/mp.i/P072911.b/mk09t1ac.d

Date : 29-JUL-2011 13:26

Client ID: EXM-SRU-M0010-RGTBL

Instrument: mp.i

Sample Info: ,,,0,,,

Purge Volume: 1.0

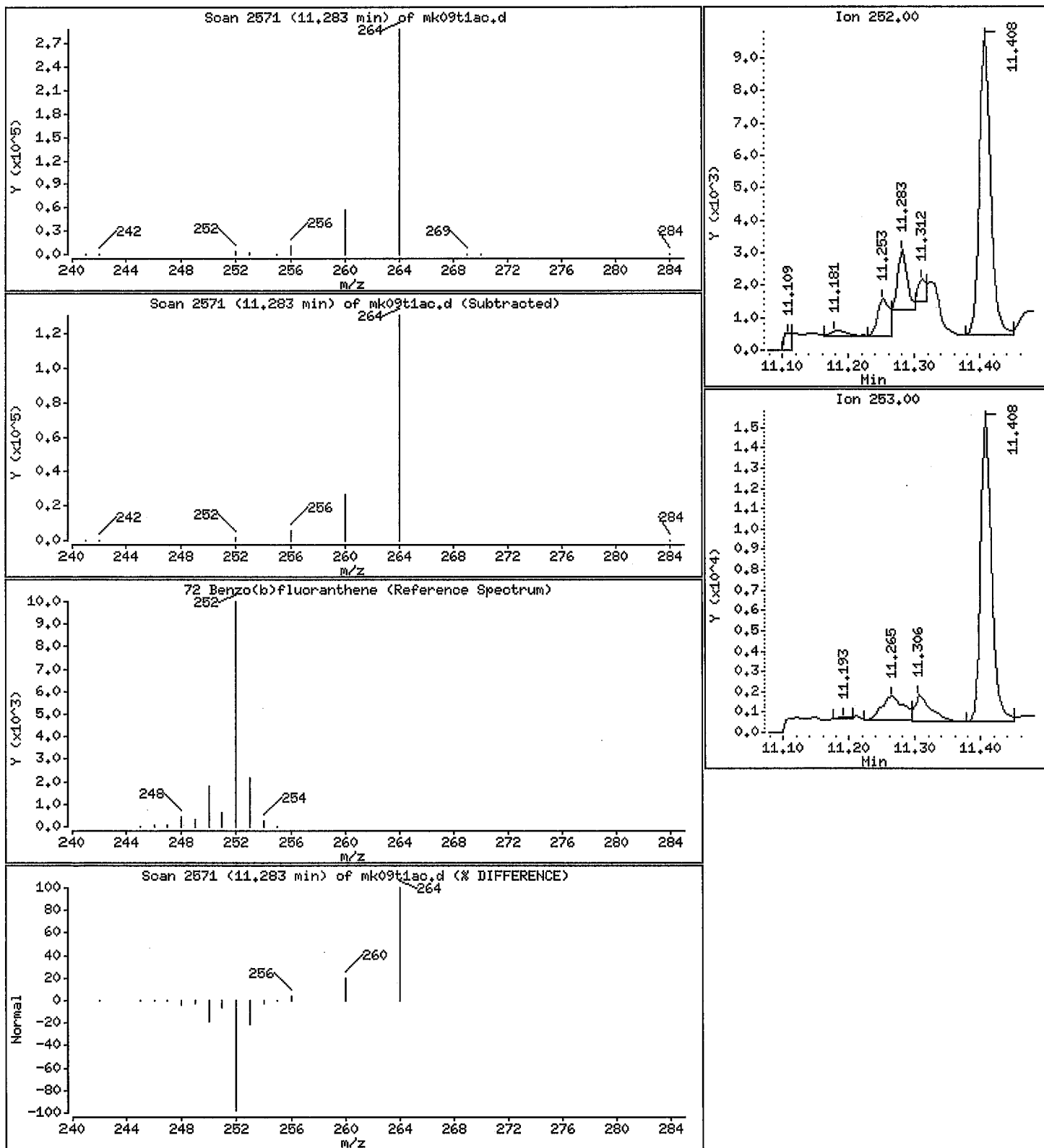
Operator: 11211

Column phase: Varian: 5MS

Column diameter: 0.25

72 Benzo(b)fluoranthene

Concentration: 1.55 ng/sample



EM-BTRF-001195

Data File: /var/chem/gcms/mp.i/P072911.b/mk09t1ac.d

Date : 29-JUL-2011 13:26

Client ID: EXM-SRU-M0010-RGTBL

Instrument: mp.i

Sample Info: ,0,,

Purge Volume: 1.0

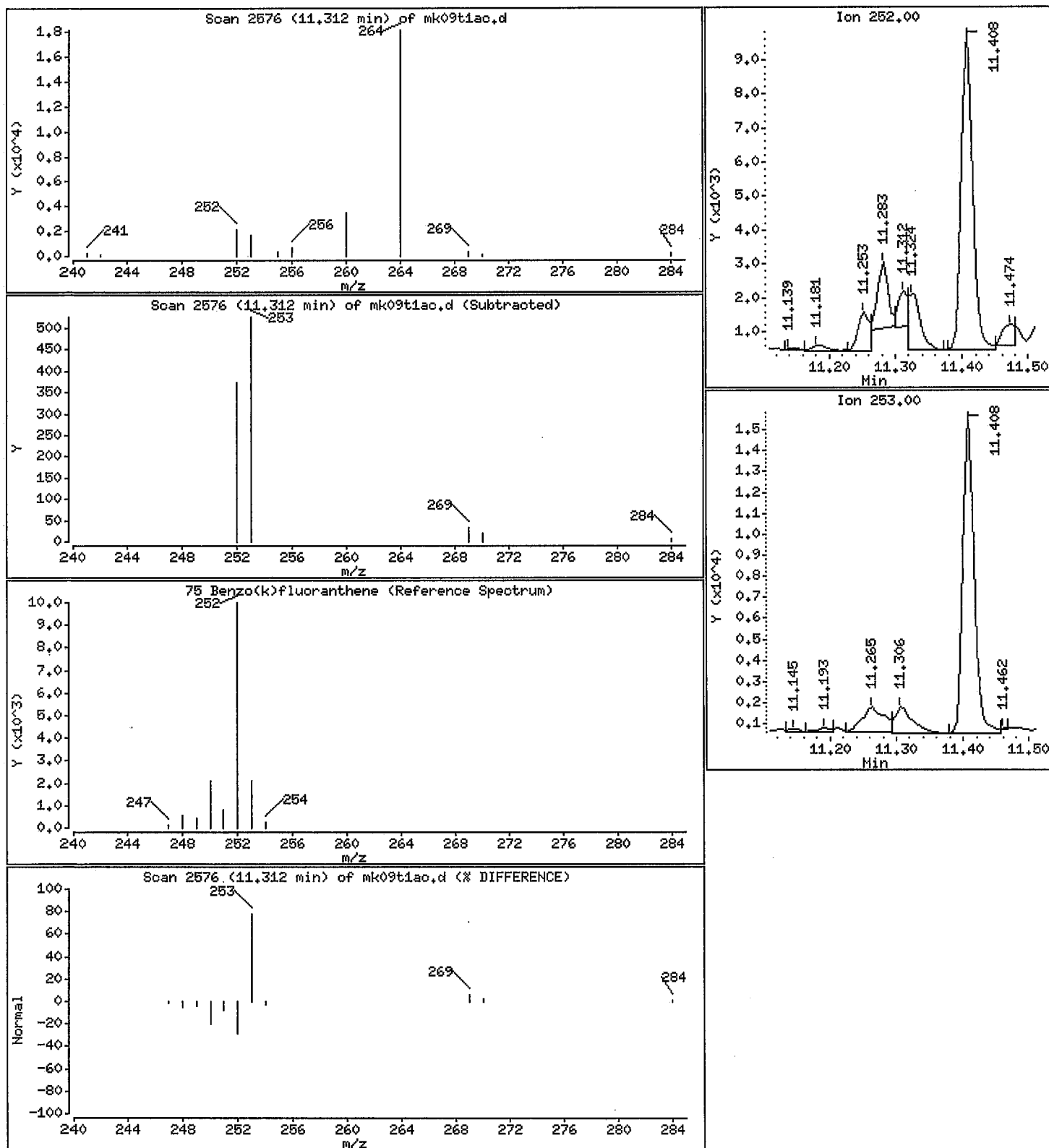
Operator: 11211

Column phase: Varian: 5MS

Column diameter: 0.25

75 Benzo(k)fluoranthene

Concentration: 1.31 ng/sample



EM-BTRF-001196

Data File: /var/chem/gcms/mp.i/P072911.b/mk09t1ac.d

Date : 29-JUL-2011 13:26

Client ID: EXM-SRU-M0010-RGTBL

Instrument: mp.i

Sample Info: ,,0,,,

Purge Volume: 1.0

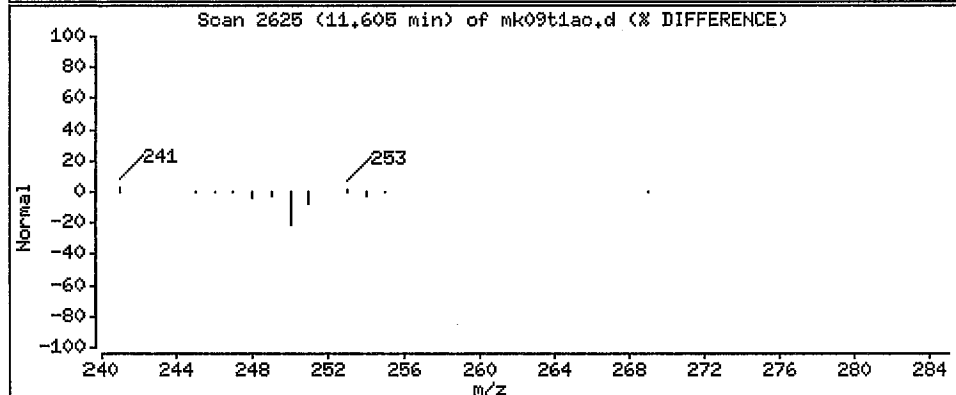
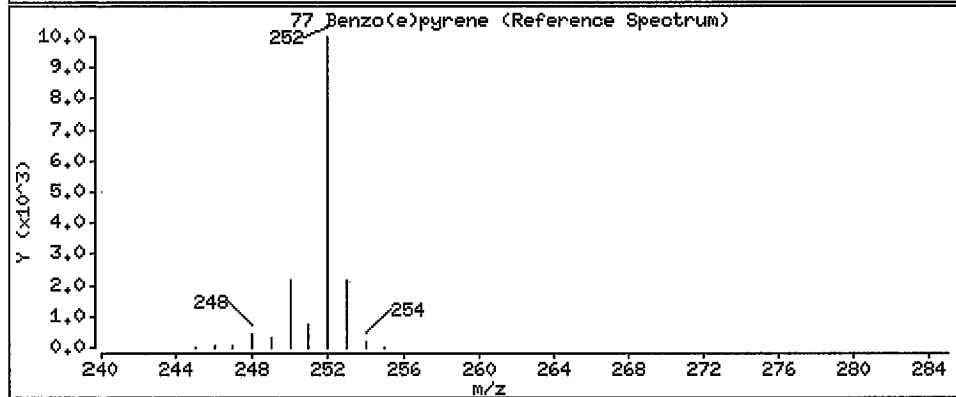
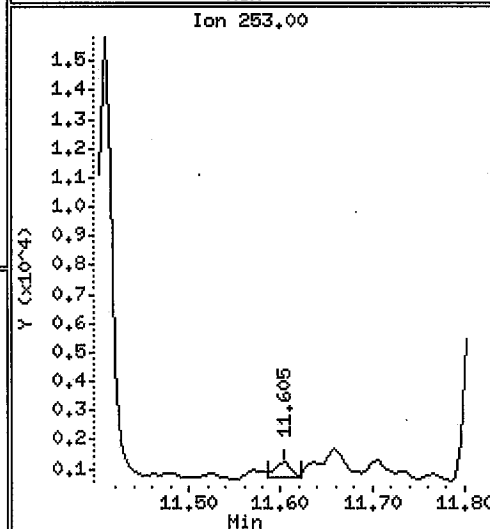
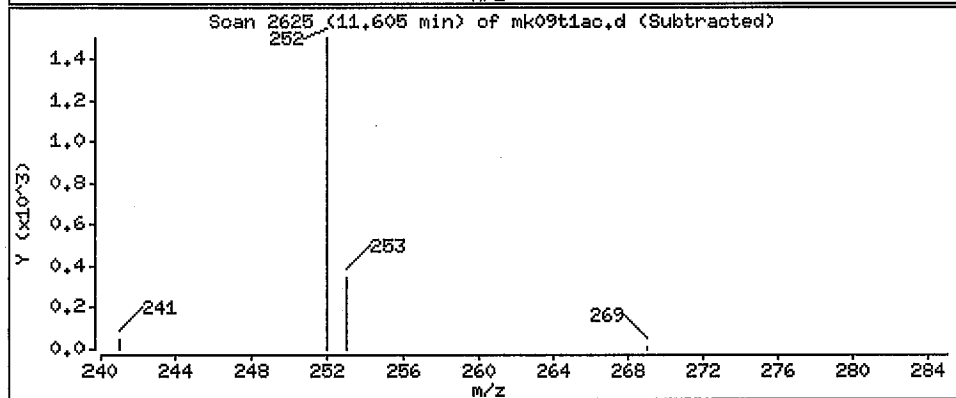
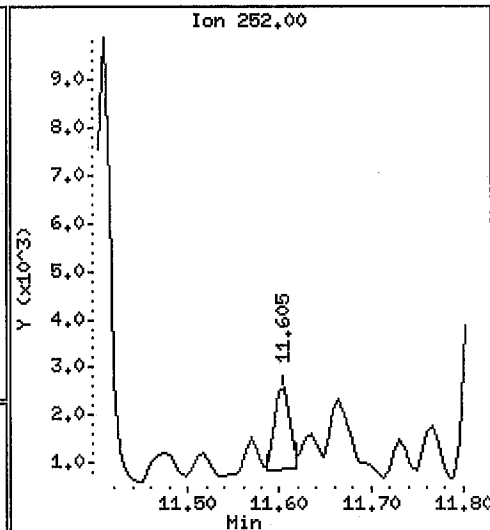
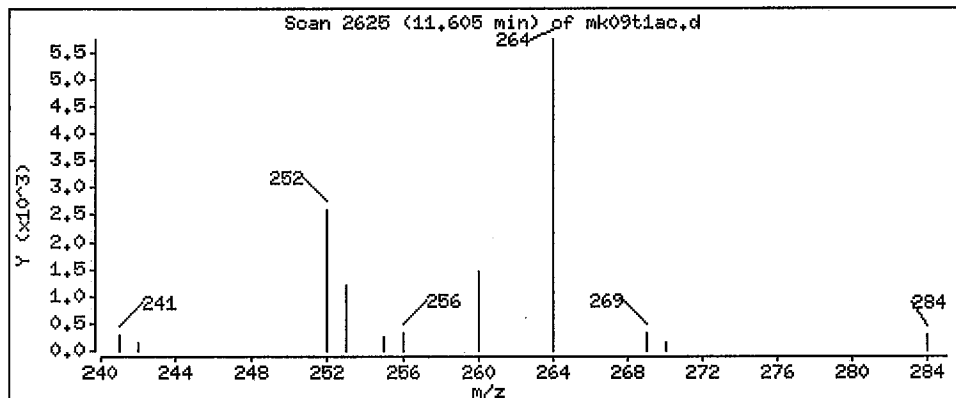
Operator: 11211

Column phase: Variant 5MS

Column diameter: 0.25

77 Benzo(e)pyrene

Concentration: 1.84 ng/sample



EM-BTRF-001197

Data File: /var/chem/gcms/mp.i/P072911.b/mk09t1ao.d

Date : 29-JUL-2011 13:26

Client ID: EXM-SRU-M0010-RGTBL

Instrument: mp.i

Sample Info: ,,0,,,

Purge Volume: 1.0

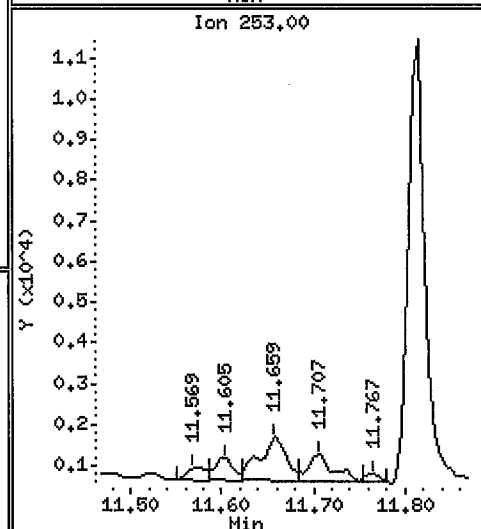
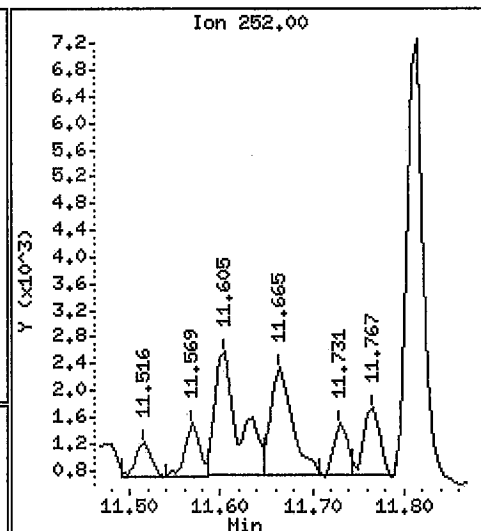
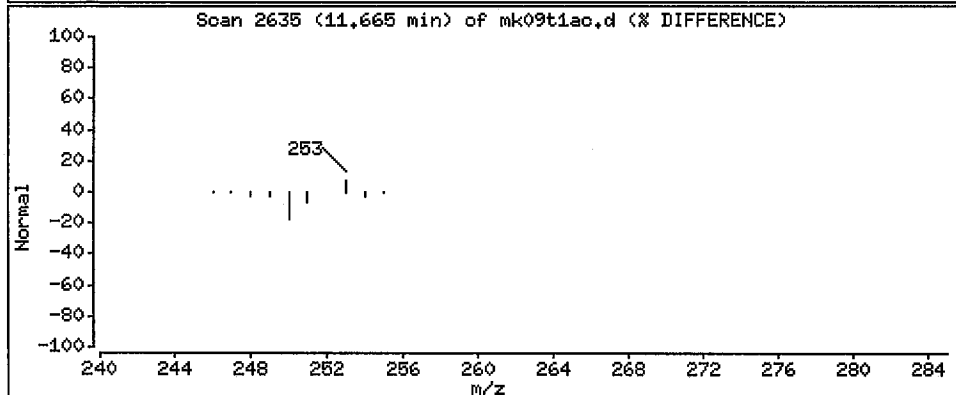
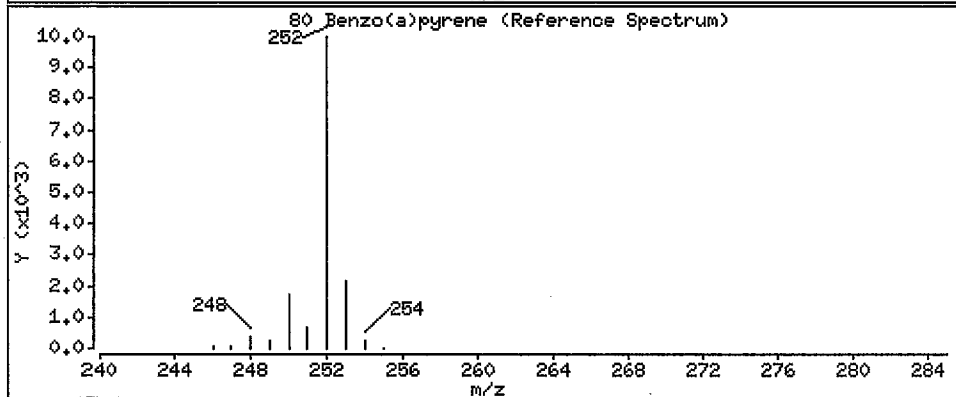
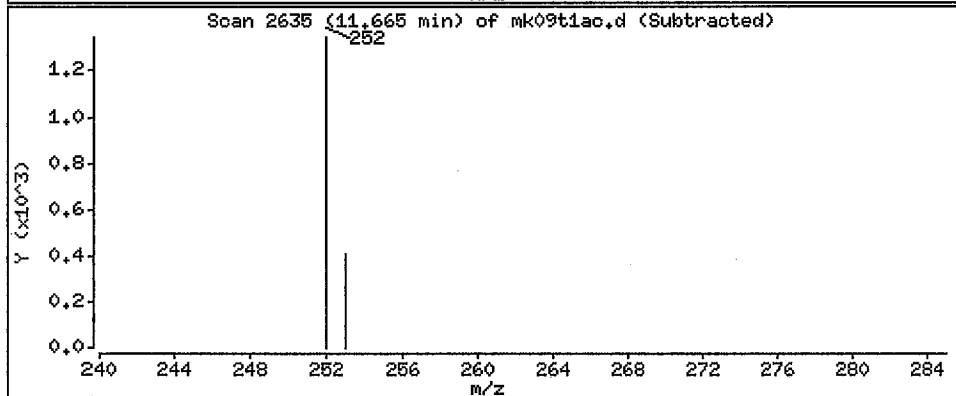
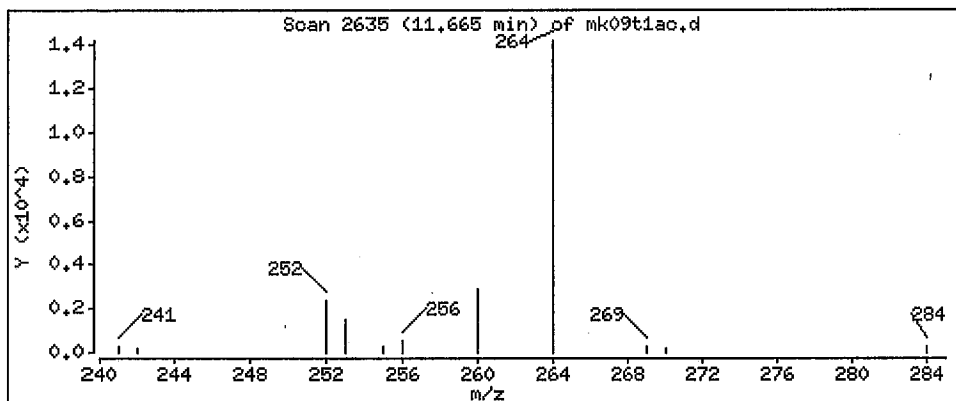
Operator: 11211

Column phase: Variant: 5MS

Column diameter: 0.25

80 Benzo(a)pyrene

Concentration: 3.05 ng/sample



Data File: /var/chem/gcms/mp.i/P072911.b/mk09t1ao.d

Date : 29-JUL-2011 13:26

Client ID: EXM-SRU-H0010-RGTBL

Instrument: mp.i

Sample Info: ,,0,,,

Purge Volume: 1.0

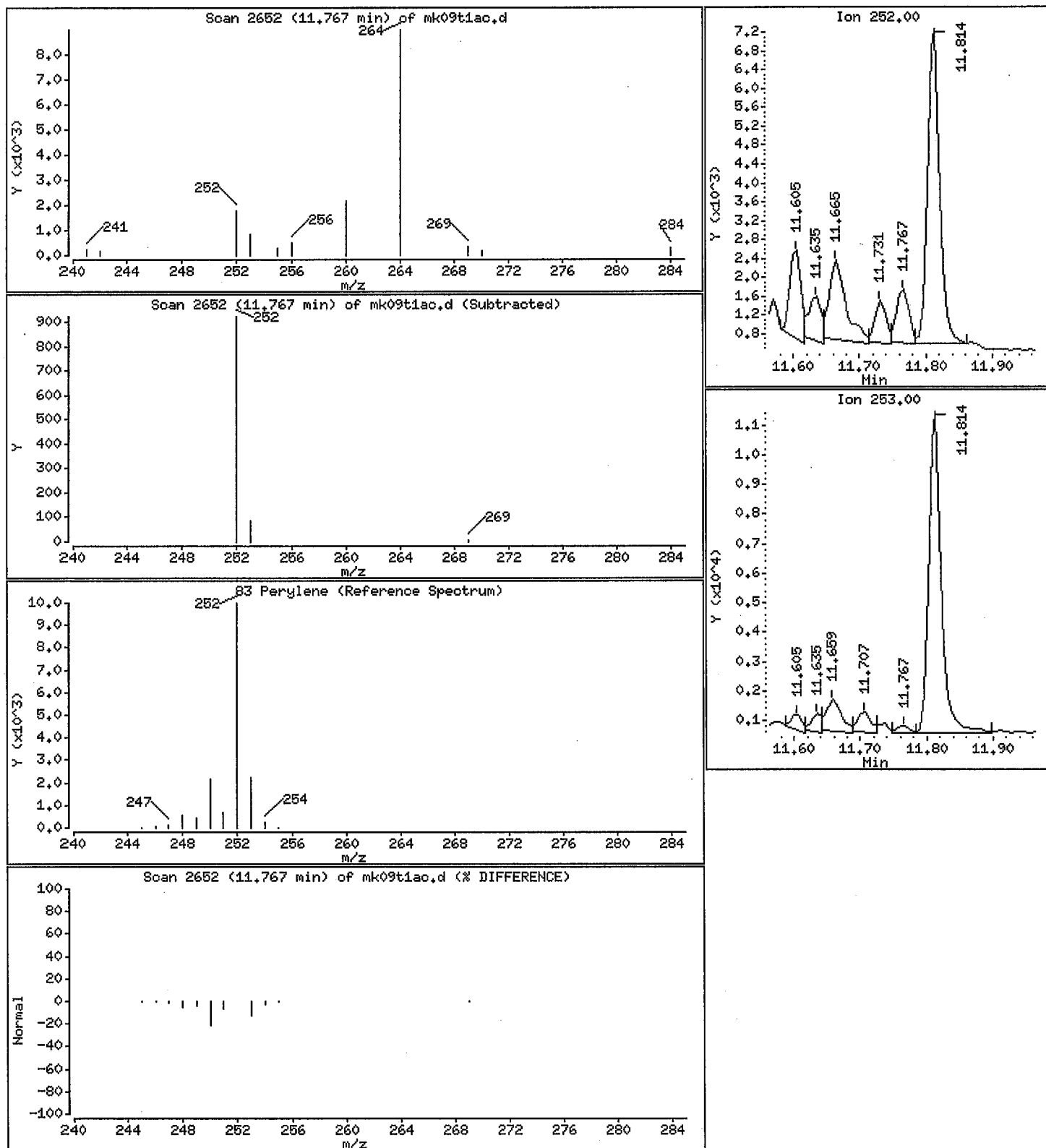
Operator: 11211

Column phase: Varian: 5MS

Column diameter: 0.25

83 Perylene

Concentration: 1.68 ng/sample



EM-BTRF-001199

Data File: /var/chem/gcms/mp.i/P072911.b/mk09t1a0.d

Date : 29-JUL-2011 13:26

Client ID: EXM-SRU-M0010-RGTBL

Instrument: mp.i

Sample Info: ,,0,,,

Purge Volume: 1.0

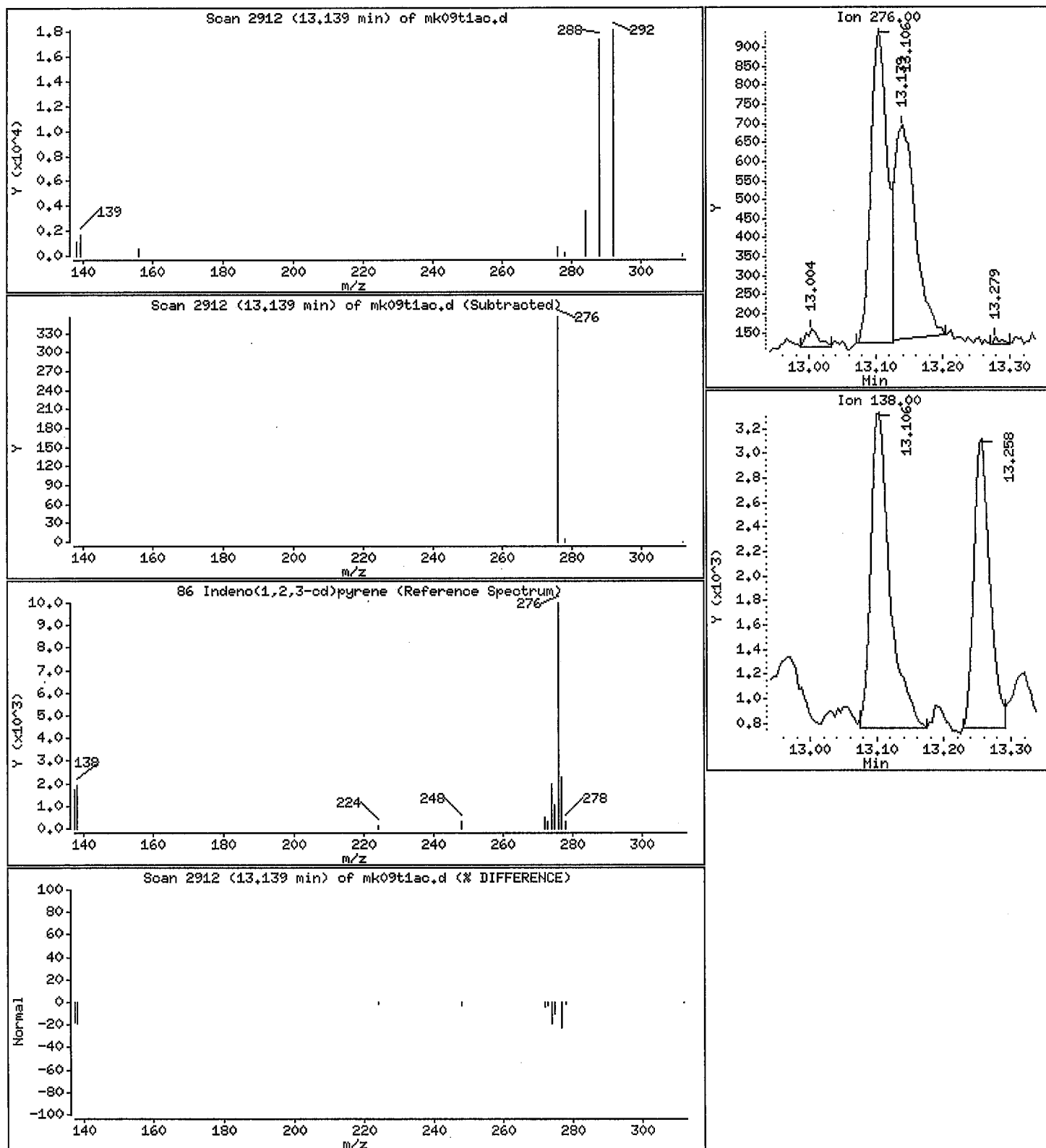
Operator: 11211

Column phase: Variant 5MS

Column diameter: 0.25

86 Indeno(1,2,3-cd)pyrene

Concentration: 1.14 ng/sample



EM-BTRF-001200

Data File: /var/chem/gcms/mp,i/P072911.b/mk09t1ao.d

Date : 29-JUL-2011 13:26

Client ID: EXM-SRU-H0010-RGTBL

Instrument: mp.i

Sample Info: ,,0,,,

Purge Volume: 1.0

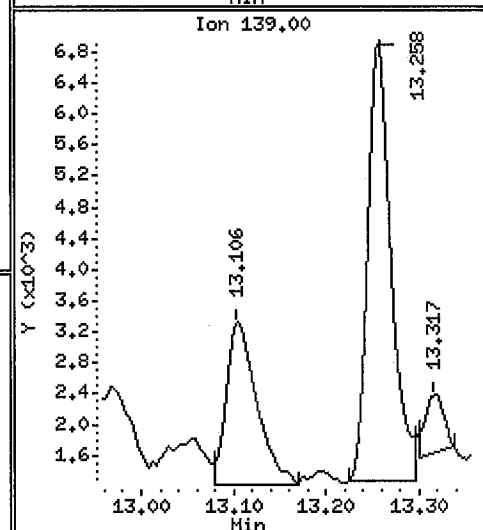
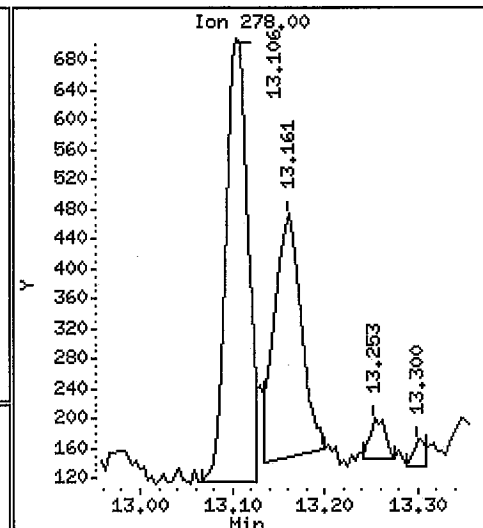
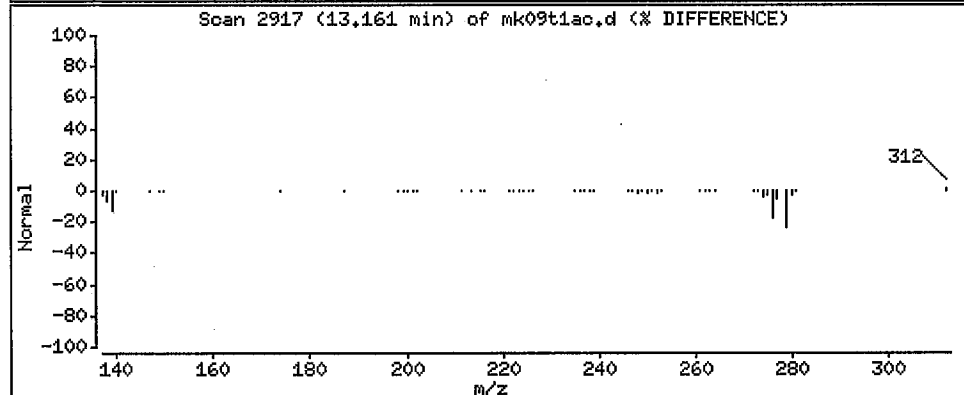
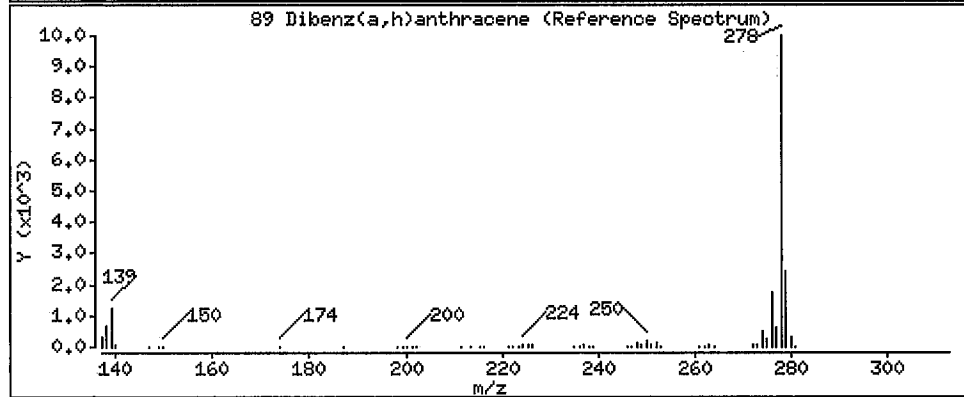
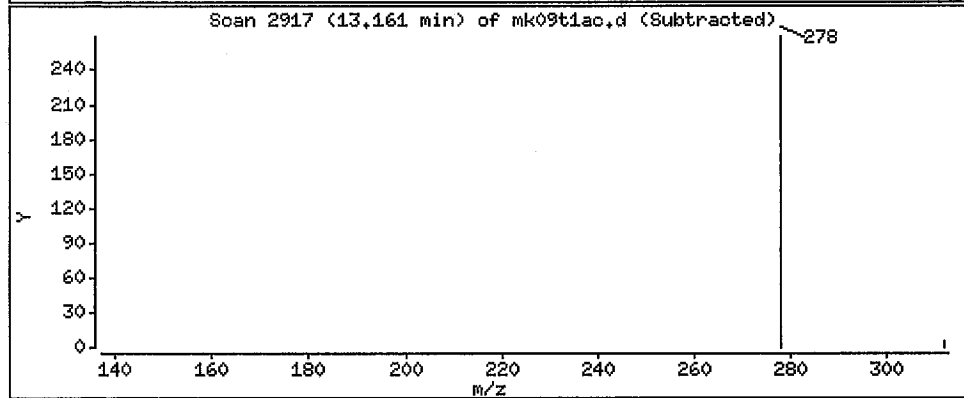
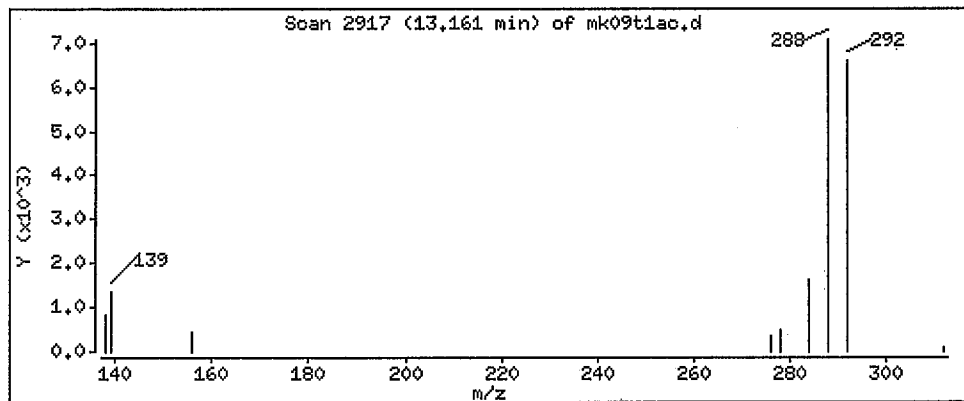
Operator: 11211

Column phase: Varian: SMS

Column diameter: 0.25

89 Dibenz(a,h)anthracene

Concentration: 0.819 ng/sample



Data File: /var/chem/gcms/mp.i/P072911.b/mk09t1ao.d

Date : 29-JUL-2011 13:26

Client ID: EXM-SRU-M0010-RGTBL

Instrument: mp.i

Sample Info: ,,,0,,,

Purge Volume: 1.0

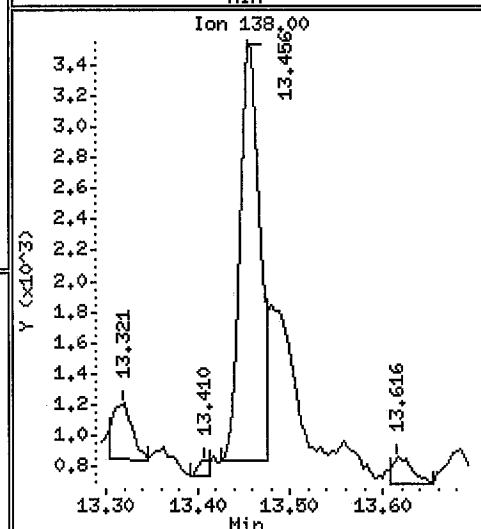
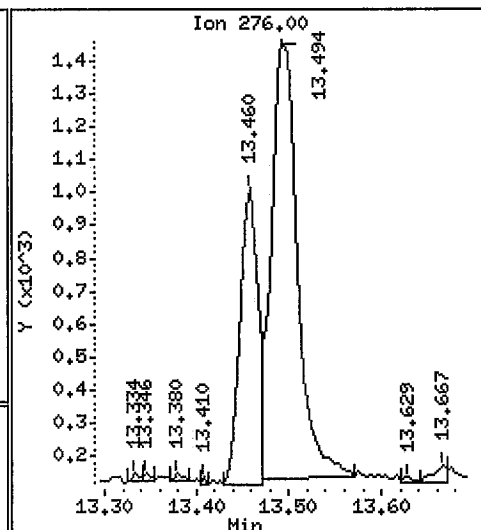
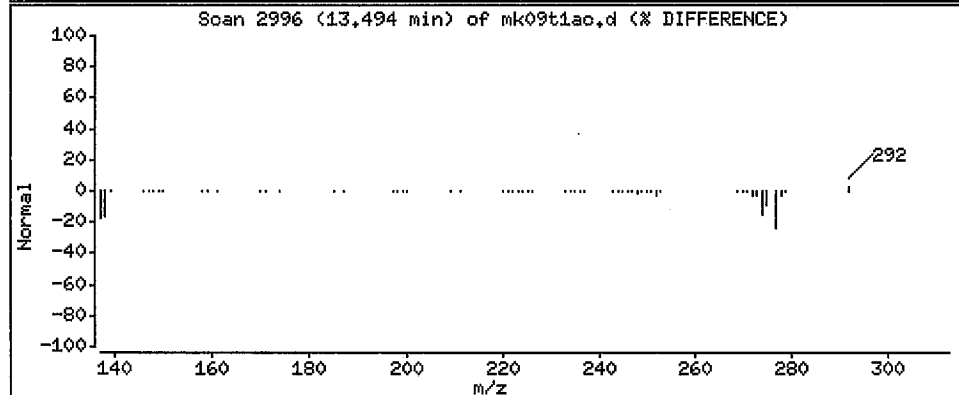
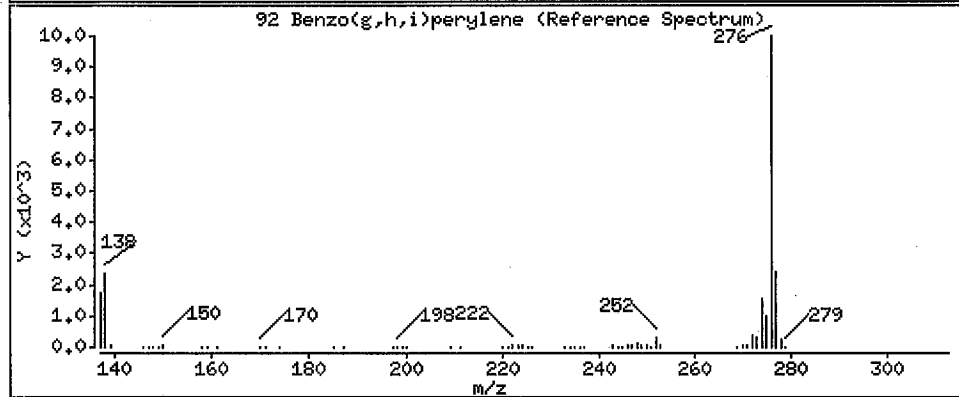
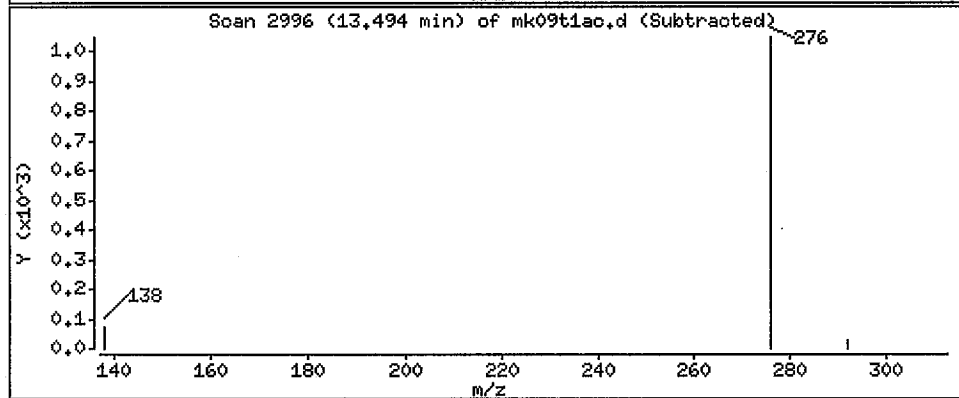
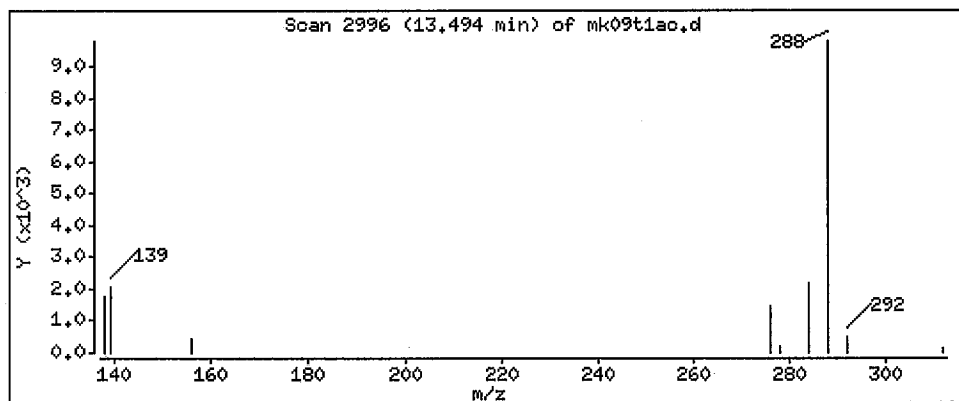
Operator: 11211

Column phase: Variant 5MS

Column diameter: 0,25

92 Benzo(g,h,i)perylene

Concentration: 3.03 ng/sample



TRC Environmental Corporation

Client Sample ID: A-6486,A-6487 MEDIA CHECK

GC/MS Semivolatiles

Lot-Sample #...: H1G190403-005 Work Order #...: MK09V1AC Matrix.....: AIR
 Date Sampled...: 07/07/11 Date Received...: 07/19/2011
 Prep Date.....: 07/20/11 Analysis Date...: 07/29/2011
 Prep Batch #...: 1201079
 Dilution Factor: 2 Method.....: KNOX ID-0016

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Acenaphthene	ND	40	ng/sample	9.8
Acenaphthylene	ND	40	ng/sample	4.8
Anthracene	ND	20	ng/sample	7.6
Benzo(a)anthracene	ND	20	ng/sample	7.6
Benzo(b)fluoranthene	ND	200	ng/sample	60
Benzo(k)fluoranthene	ND	200	ng/sample	86
Benzo(ghi)perylene	ND	20	ng/sample	10
Benzo(a)pyrene	ND	20	ng/sample	5.8
Benzo(e)pyrene	ND	20	ng/sample	11
Chrysene	ND	20	ng/sample	5.0
Dibenz(a,h)anthracene	ND	20	ng/sample	7.8
Fluoranthene	ND	20	ng/sample	13
Fluorene	ND	20	ng/sample	8.2
Indeno(1,2,3-cd)pyrene	ND	20	ng/sample	5.2
2-Methylnaphthalene	ND	100	ng/sample	42
Naphthalene	ND	800	ng/sample	500
Perylene	ND	20	ng/sample	6.2
Phenanthrene	ND	60	ng/sample	48
Pyrene	ND	120	ng/sample	72

Internal Standard	PERCENT RECOVERY		RECOVERY LIMITS
Anthracene-d10	96		(30 - 120)
Naphthalene-d8	91		(30 - 120)
2-Methylnaphthalene-d10	97		(30 - 120)
1-Methylnaphthalene-d10	95		(30 - 120)
Acenaphthylene-d8	112		(30 - 120)
Phenanthrene-d10	83		(30 - 120)
2,6-Dimethylnaphthalene-d12	99		(30 - 120)
Fluoranthene-d10	101		(30 - 120)
Benzo(a)anthracene-d12	145 *		(30 - 120)
Chrysene-d12	90		(30 - 120)
Benzo(b)fluoranthene-d12	117		(30 - 120)
Benzo(k)fluoranthene-d12	81		(30 - 120)
Benzo(a)pyrene-d12	112		(30 - 120)
Perylene-d12	101		(30 - 120)
Indeno(1,2,3-cd)pyrene-d12	102		(30 - 120)
Dibenz(ah)anthracene-d14	99		(30 - 120)
Benzo(ghi)perylene-d12	93		(30 - 120)

NOTE(S) :

* Surrogate recovery is outside stated control limits.

Data File: /var/chem/gcms/mp.i/P072911.b/mk09v1ac.d
 Report Date: 04-Aug-2011 16:26

TestAmerica Knoxville

SEMIVOLATILE QUANTITATION REPORT

Data file : /var/chem/gcms/mp.i/P072911.b/mk09v1ac.d
 Lab Smp Id: MK09V1AC Client Smp ID: A-6486,A-6487 MEDIA
 Inj Date : 29-JUL-2011 13:01
 Operator : 60487 *statu* Inst ID: mp.i
 Smp Info : , , 0 , , *11/21*
 Misc Info : P072911,SIMPAH3
 Comment :
 Method : /var/chem/gcms/mp.i/P072911.b/SIMPAH3.m
 Meth Date : 29-Jul-2011 11:36 chemist Quant Type: ISTD
 Cal Date : 26-JUL-2011 20:15 Cal File: pg26ic07.d
 Als bottle: 6
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: pah.sub
 Target Version: 3.50
 Processing Host: qmidhp01

Concentration Formula: Amt * DF * Sf*Vt/Vo * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Sf	1.00000	Split factor
Vt	500.00000	Volume of final extract (uL)
Vo	1.00000	Volume of sample extracted (sample)

Cpnd Variable

Local Compound Variable

Compounds	QUANT SIG	MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN (ug/ml)	FINAL (ng/sample)
* 1 Naphthalene-d8		136	4.865	4.865	(1.000)	630141	0.50000	0.500
\$ 2 Naphthalene-d8 (SS)		136	4.865	4.865	(0.769)	630141	0.45527	228
3 Naphthalene		128	4.880	4.880	(1.003)	115769	0.10825	54.1
\$ 222 13C6-Naphthalene		134	4.865	4.880	(1.000)	57008	0.04925	24.6 (R)
* 10 2-Methylnaphthalene-d10		152	5.424	5.424	(1.000)	360593	0.50000	0.500
\$ 11 2-Methylnaphthalene-d10 (SS)		152	5.424	5.424	(0.858)	360593	0.48283	241
12 2-Methylnaphthalene		142	5.450	5.450	(1.005)	11107	0.01529	7.64
* 13 1-Methylnaphthalene-d10		152	5.503	5.503	(1.000)	352815	0.50000	0.500
\$ 14 1-Methylnaphthalene-d10 (SS)		152	5.503	5.503	(0.870)	352815	0.47526	238
15 1-Methylnaphthalene		142	5.533	5.533	(1.005)	5978	0.00873	4.37
16 Biphenyl		154	5.835	5.835	(1.076)	112062	0.12989	64.9
* 17 2,6-Dimethylnaphthalene-d12		168	5.935	5.933	(1.000)	314858	0.50000	0.500
\$ 18 2,6-Dimethylnaph-d12 (SS)		168	5.935	5.933	(0.938)	314858	0.49422	247
19 2,6 Dimethylnaphthalene		156	5.976	5.969	(1.007)	2306	0.00367	1.84

Data File: /var/chem/gcms/mp.i/P072911.b/mk09v1ac.d
Report Date: 04-Aug-2011 16:26

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/ml)	FINAL (ng/sample)
=====	=====	==	=====	=====	=====	=====	=====
* 20 Acenaphthylene-d8	160	6.194	6.194	(1.000)	581290	0.50000	0.500
\$ 21 Acenaphthylene-d8 (SS)	160	6.194	6.194	(0.979)	581290	0.55825	279
22 Acenaphthylene	152	6.205	6.202	(1.002)	545	0.000465	0.233
* 23 Acenaphthene-d10	164	6.325	6.325	(1.000)	294295	0.50000	0.500
24 Acenaphthene	154	6.350	6.350	(1.025)	2920	0.00417	2.09
25 2,3,5 Trimethylnaphthalene	170	6.671	6.669	(1.124)	471	0.00090	0.450
\$ 26 Fluorene-d10	176	6.763	6.758	(0.892)	212	0.000379	0.139 (R)
27 Fluorene	166	6.786	6.783	(0.895)	3667	0.00506	2.53
\$ 28 13C6-Fluorene	171	6.781	6.781	(0.895)	56	8.96e-05	0.0448 (R)
* 34 Dibenzothiophene-d8	192	7.474	7.474	(1.000)	499174	0.50000	0.500
\$ 35 Dibenzothiophene-d8 (SS)	192	7.474	7.474	(0.841)	499174	0.39744	199
36 Dibenzothiophene	184	7.491	7.489	(1.002)	1739	0.00183	0.913
* 41 Phenanthrene-d10	188	7.578	7.578	(1.000)	472326	0.50000	0.500
\$ 42 Phenanthrene-d10 (SS)	188	7.578	7.578	(0.853)	472326	0.41682	208
43 Phenanthrene	178	7.599	7.597	(1.003)	22262	0.02147	10.7
* 44 Anthracene-d10	188	7.626	7.626	(1.000)	458966	0.50000	0.500
\$ 45 Anthracene-d10 (SS)	188	7.626	7.626	(0.858)	458969	0.47966	240 <i>240</i>
46 Anthracene	178	7.640	7.642	(1.002)	884	0.000748	0.374
\$ 47 13C6-Anthracene	184	7.626	7.642	(0.858)	61011	0.05882	20.4 (R)
52 1-Methylphenanthrene	192	8.148	8.143	(1.075)	926	0.00149	0.743
* 53 Fluoranthene-d10	212	8.665	8.665	(1.000)	533437	0.50000	0.500
\$ 54 Fluoranthene-d10 (SS)	212	8.665	8.665	(0.975)	533437	0.50543	253
55 Fluoranthene	202	8.683	8.683	(1.002)	7102	0.00592	2.96
* 56 Pyrene-d10	212	8.887	8.885	(1.000)	430236	0.50000	0.500
57 Pyrene	202	8.904	8.904	(1.028)	4144	0.00326	1.63
\$ 58 Terphenyl-d14	244	9.043	9.043	(1.044)	34	6.22e-05	0.0311 (R)
* 60 Benzo(a) anthracene-d12	240	10.100	10.100	(1.000)	381287	0.50000	0.500
\$ 61 Benzo(a) anthracene-d12 (SS)	240	10.100	10.100	(1.136)	381287	0.72658	363 (R)
62 Benzo(a) anthracene	228	10.125	10.121	(1.002)	3005	0.00247	1.23
* 63 Chrysene-d12	240	10.133	10.133	(1.000)	413140	0.50000	0.500
\$ 64 Chrysene-d12 (SS)	240	10.133	10.133	(1.140)	413140	0.44874	224
65 Chrysene	228	10.163	10.163	(1.003)	2252	0.00250	1.25
* 70 Benzo(b) fluoranthene-d12	264	11.253	11.253	(1.000)	371007	0.50000	0.500
\$ 71 Benzo(b) fluoranthene-d12 (SS)	264	11.253	11.253	(0.973)	371007	0.58483	292
72 Benzo(b) fluoranthene	252	11.283	11.277	(1.003)	4851	0.00445	2.23
* 73 Benzo(k) fluoranthene-d12	264	11.289	11.289	(1.000)	368841	0.50000	0.500
\$ 74 Benzo(k) fluoranthene-d12 (SS)	264	11.289	11.289	(0.976)	368841	0.40738	204
75 Benzo(k) fluoranthene	252	11.307	11.307	(1.002)	5263	0.00652	3.26
* 76 Benzo(e) pyrene-d12	264	11.570	11.570	(1.000)	300821	0.50000	0.500
77 Benzo(e) pyrene	252	11.599	11.600	(0.997)	2989	0.00304	1.52 <i>542</i>
* 78 Benzo(a) pyrene-d12	264	11.635	11.635	(1.000)	362356	0.50000	0.500
\$ 79 Benzo(a) pyrene-d12 (SS)	264	11.635	11.635	(1.006)	362356	0.55865	279
80 Benzo(a) pyrene	252	11.665	11.665	(1.003)	3041	0.00370	1.85
* 81 Perylene-d12	264	11.737	11.737	(1.000)	326313	0.50000	0.500
\$ 82 Perylene-d12 (SS)	264	11.737	11.737	(1.014)	326313	0.50441	252
83 Perylene	252	11.767	11.761	(1.003)	2348	0.00286	1.43
* 84 Indeno(123-cd)pyrene-d12	288	13.106	13.106	(1.000)	376241	0.50000	0.500

Data File: /var/chem/gcms/mp.i/P072911.b/mk09v1ac.d
 Report Date: 04-Aug-2011 16:26

Compounds	QUANT SIG	MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN	FINAL
							(ug/ml)	(ng/sample)
=====	=====	=====	=====	=====	=====	=====	=====	=====
\$ 85 Indeno(123-cd)pyrene-d12 (SS)		288	13.106	13.106	(1.133)	376241	0.50761	254
86 Indeno(1,2,3-cd)pyrene		276	13.144	13.140	(1.003)	1176	0.00129	0.646
* 87 Dibenz(ah)anthracene-d14		292	13.110	13.110	(1.000)	279513	0.50000	0.500
\$ 88 Dibenz(ah)anthracene-d14 (SS)		292	13.110	13.110	(1.133)	279513	0.49509	248
89 Dibenz(a,h)anthracene		278	13.161	13.157	(1.004)	738	0.00108	0.538
* 90 Benzo(ghi)perylene-d12		288	13.460	13.460	(1.000)	259506	0.50000	0.500
\$ 91 Benzo(ghi)perylene-d12 (SS)		288	13.460	13.460	(1.163)	259506	0.46587	283
92 Benzo(g,h,i)perylene		276	13.494	13.494	(1.002)	1090	0.00152	0.759

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

2008.8.11

Data File: /var/chem/gcms/mp.i/P072911.b/mk09v1ac.d
 Report Date: 05-Aug-2011 13:39

TestAmerica Knoxville

SEMIVOLATILE QUANTITATION REPORT

Data file : /var/chem/gcms/mp.i/P072911.b/mk09v1ac.d
 Lab Smp Id: MK09V1AC Client Smp ID: A-6486,A-6487 MEDIA
 Inj Date : 29-JUL-2011 13:01
 Operator : 11211 Inst ID: mp.i
 Smp Info : ,,0,,,
 Misc Info : P072911,SIMPAH3
 Comment :
 Method : /var/chem/gcms/mp.i/P072911.b/SIMPAH3.m
 Meth Date : 04-Aug-2011 19:00 cochranj Quant Type: ISTD
 Cal Date : 26-JUL-2011 20:15 Cal File: pg26ic07.d
 Als bottle: 6
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: pah.sub
 Target Version: 3.50
 Processing Host: qmidhp01

Concentration Formula: Amt * DF * Sf*Vt/Vo * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Sf	2.00000	Split factor
Vt	500.00000	Volume of final extract (uL)
Vo	1.00000	Volume of sample extracted (sample)

Cpnd Variable

Local Compound Variable

*all 2 MDC
7/28/11*

Compounds	QUANT	SIG						CONCENTRATIONS	
			MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN	FINAL
								(ug/ml)	(ng/sample)
* 1 Naphthalene-d8	136		4.865	4.865	(1.000)	630141	0.50000	0.500	
\$ 2 Naphthalene-d8 (SS)	136		4.865	4.865	(0.769)	630141	0.45527	455	
3 Naphthalene	128		4.880	4.880	(1.003)	115769	0.10825	108	
* 10 2-Methylnaphthalene-d10	152		5.424	5.424	(1.000)	360593	0.50000	0.500	
\$ 11 2-Methylnaphthalene-d10 (SS)	152		5.424	5.424	(0.858)	360593	0.48283	483	
12 2-Methylnaphthalene	142		5.450	5.450	(1.005)	11107	0.01529	15.3	
* 13 1-Methylnaphthalene-d10	152		5.503	5.503	(1.000)	352815	0.50000	0.500	
\$ 14 1-Methylnaphthalene-d10 (SS)	152		5.503	5.503	(0.870)	352815	0.47526	475	
15 1-Methylnaphthalene	142		5.533	5.533	(1.005)	5978	0.00873	8.73	
16 Biphenyl	154		5.835	5.835	(1.076)	112062	0.12989	130	
* 17 2,6-Dimethylnaphthalene-d12	168		5.935	5.935	(1.000)	314858	0.50000	0.500	
\$ 18 2,6-Dimethylnaph-d12 (SS)	168		5.935	5.935	(0.938)	314858	0.49422	494	
19 2,6 Dimethylnaphthalene	156		5.976	5.969	(1.007)	2306	0.00367	3.67	
* 20 Acenaphthylene-d8	160		6.194	6.194	(1.000)	581290	0.50000	0.500	

Data File: /var/chem/gcms/mp.i/P072911.b/mk09v1ac.d
Report Date: 05-Aug-2011 13:39

Compounds	QUANT SIG	CONCENTRATIONS					
		ON-COLUMN	FINAL				
	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/ml)	(ng/sample)
=====	=====	==	=====	=====	=====	=====	=====
\$ 21 Acenaphthylene-d8 (SS)	160	6.194	6.194	(0.979)	581290	0.55825	558
22 Acenaphthylene	152	6.205	6.202	(1.002)	545	0.000465	0.465 *
* 23 Acenaphthene-d10	164	6.325	6.325	(1.000)	294295	0.50000	0.500
24 Acenaphthene	154	6.350	6.350	(1.025)	2920	0.00417	4.17,
25 2,3,5 Trimethylnaphthalene	170	6.671	6.669	(1.124)	471	0.00090	0.900 *
27 Fluorene	166	6.786	6.783	(0.895)	3667	0.00506	5.06 *
* 34 Dibenzothiophene-d8	192	7.474	7.474	(1.000)	499174	0.50000	0.500
\$ 35 Dibenzothiophene-d8 (SS)	192	7.474	7.474	(0.841)	499174	0.39744	397
36 Dibenzothiophene	184	7.491	7.489	(1.002)	1739	0.00183	1.83 *
* 41 Phenanthrene-d10	188	7.578	7.578	(1.000)	472326	0.50000	0.500
\$ 42 Phenanthrene-d10 (SS)	188	7.578	7.578	(0.853)	472326	0.41682	417
43 Phenanthrene	178	7.599	7.597	(1.003)	22262	0.02147	21.5 ,
* 44 Anthracene-d10	188	7.626	7.626	(1.000)	458966	0.50000	0.500
\$ 45 Anthracene-d10 (SS)	188	7.626	7.626	(0.858)	458969	0.47966	480
46 Anthracene	178	7.640	7.642	(1.002)	884	0.000748	0.748 ,
52 1-Methylphenanthrene	192	8.148	8.143	(1.075)	926	0.00149	1.49 *
* 53 Fluoranthene-d10	212	8.665	8.665	(1.000)	533437	0.50000	0.500
\$ 54 Fluoranthene-d10 (SS)	212	8.665	8.665	(0.975)	533437	0.50543	505
55 Fluoranthene	202	8.683	8.683	(1.002)	7102	0.00592	5.92 *
* 56 Pyrene-d10	212	8.887	8.885	(1.000)	430236	0.50000	0.500
57 Pyrene	202	8.904	8.904	(1.028)	4144	0.00326	3.26 ,
* 60 Benzo(a)anthracene-d12	240	10.100	10.100	(1.000)	381287	0.50000	0.500
\$ 61 Benzo(a)anthracene-d12 (SS)	240	10.100	10.100	(1.136)	381287	0.72658	727(R)
* 63 Chrysene-d12	240	10.133	10.133	(1.000)	413140	0.50000	0.500
\$ 64 Chrysene-d12 (SS)	240	10.133	10.133	(1.140)	413140	0.44874	449
65 Chrysene	228	10.163	10.163	(1.003)	2252	0.00250	2.50 *
* 70 Benzo(b)fluoranthene-d12	264	11.253	11.253	(1.000)	371007	0.50000	0.500
\$ 71 Benzo(b)fluoranthene-d12 (SS)	264	11.253	11.253	(0.973)	371007	0.58483	585
72 Benzo(b)fluoranthene	252	11.283	11.277	(1.003)	4851	0.00445	4.45(H) *
* 73 Benzo(k)fluoranthene-d12	264	11.289	11.289	(1.000)	368841	0.50000	0.500
\$ 74 Benzo(k)fluoranthene-d12 (SS)	264	11.289	11.289	(0.976)	368841	0.40738	407
75 Benzo(k)fluoranthene	252	11.307	11.307	(1.002)	5263	0.00652	6.52 *
* 76 Benzo(e)pyrene-d12	264	11.570	11.570	(1.000)	300821	0.50000	0.500
77 Benzo(e)pyrene	252	11.599	11.600	(0.997)	2372	0.00241	2.41(M) *
* 78 Benzo(a)pyrene-d12	264	11.635	11.635	(1.000)	362356	0.50000	0.500
\$ 79 Benzo(a)pyrene-d12 (SS)	264	11.635	11.635	(1.006)	362356	0.55865	559
80 Benzo(a)pyrene	252	11.665	11.665	(1.003)	3041	0.00370	3.70 *
* 81 Perylene-d12	264	11.737	11.737	(1.000)	326313	0.50000	0.500
\$ 82 Perylene-d12 (SS)	264	11.737	11.737	(1.014)	326313	0.50441	504
83 Perylene	252	11.767	11.761	(1.003)	2348	0.00286	2.86 *
* 84 Indeno(123-cd)pyrene-d12	288	13.106	13.106	(1.000)	376241	0.50000	0.500
\$ 85 Indeno(123-cd)pyrene-d12 (SS)	288	13.106	13.106	(1.133)	376241	0.50761	508
86 Indeno(1,2,3-cd)pyrene	276	13.144	13.140	(1.003)	1176	0.00129	1.29 *
* 87 Dibenz(ah)anthracene-d14	292	13.110	13.110	(1.000)	279513	0.50000	0.500
\$ 88 Dibenz(ah)anthracene-d14 (SS)	292	13.110	13.110	(1.133)	279513	0.49509	495
89 Dibenz(a,h)anthracene	278	13.161	13.157	(1.004)	738	0.00108	1.08 *
* 90 Benzo(ghi)perylene-d12	288	13.460	13.460	(1.000)	259506	0.50000	0.500

Data File: /var/chem/gcms/mp.i/P072911.b/mk09v1ac.d
 Report Date: 05-Aug-2011 13:39

Compounds	QUANT SIG						CONCENTRATIONS	
	MASS	RT	EXP RT	REL RT	RESPONSE		ON-COLUMN (ug/ml)	FINAL (ng/sample)
=====	====	==	=====	=====	=====		=====	=====
\$ 91 Benzo(ghi)perylene-d12(SS)	288	13.460	13.460	(1.163)	259506		0.46587	466
92 Benzo(g,h,i)perylene	276	13.494	13.494	(1.002)	1090		0.00152	1.52

QC Flag Legend

R - Spike/Surrogate failed recovery limits.
 M - Compound response manually integrated.
 H - Operator selected an alternate compound hit.

Data File: /var/chem/gcms/mp.i/P072911.b/mk09v1ac.d
 Report Date: 05-Aug-2011 13:39

TestAmerica Knoxville

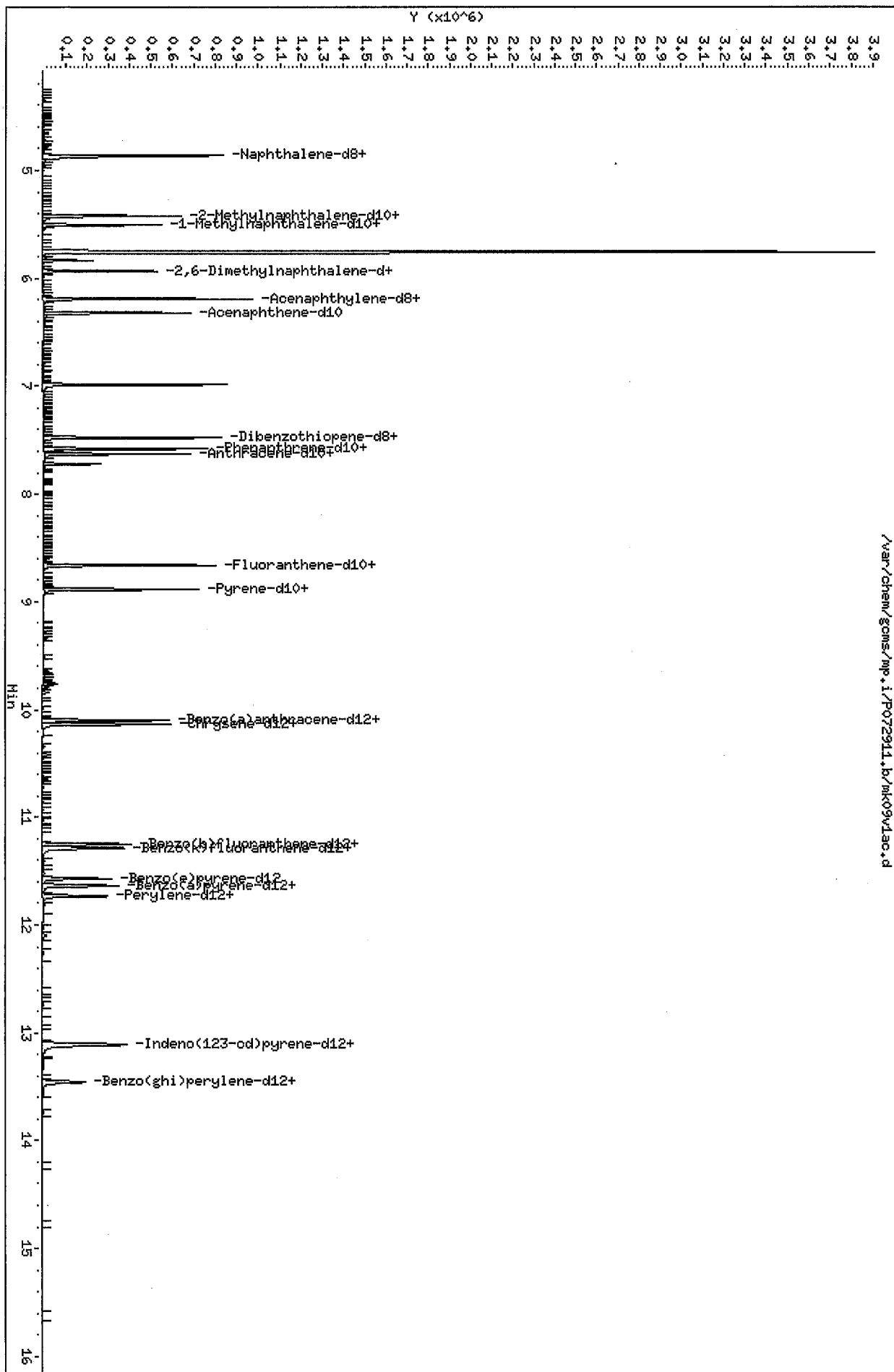
RECOVERY REPORT

Client Name: TRC Environmental Co19-JUL-2011 00:00 Client SDG: H1G190403
 Sample Matrix: GAS Fraction: SV
 Lab Smp Id: MK09V1AC Client Smp ID: A-6486,A-6487 MEDIA
 Level: LOW Operator: 11211
 Data Type: MS DATA SampleType: SAMPLE
 SpikeList File: icv.spk Quant Type: ISTD
 Sublist File: pah.sub
 Method File: /var/chem/gcms/mp.i/P072911.b/SIMPAH3.m
 Misc Info: P072911,SIMPAH3

SURROGATE COMPOUND	CONC ADDED ng/sample	CONC RECOVERED ng/sample	% RECOVERED	LIMITS
\$ 2 Naphthalene-d8 (SS)	500	455	91.05	30-120
\$ 222 13C6-Naphthalene	500	0.00	*	50-150
\$ 11 2-Methylnaphthalen	500	483	96.57	30-120
\$ 14 1-Methylnaphthalen	500	475	95.05	30-120
\$ 18 2,6-Dimethylnaph-d	500	494	98.84	30-120
\$ 21 Acenaphthylene-d8 (	500	558	111.65	30-120
\$ 26 Fluorene-d10	1000	0.00	*	30-120
\$ 28 13C6-Fluorene	1000	0.00	*	30-120
\$ 35 Dibenzothiopene-d8	500	397	79.49	30-120
\$ 42 Phenanthrene-d10 (S	500	417	83.36	30-120
\$ 45 Anthracene-d10 (SS)	500	480	95.93	30-120
\$ 47 13C6-Anthracene	500	0.00	*	30-120
\$ 54 Fluoranthene-d10 (S	500	505	101.09	0-120
\$ 58 Terphenyl-d14	1000	0.00	*	30-120
\$ 61 Benzo (a) anthracene	500	727	145.32*	30-120
\$ 64 Chrysene-d12 (SS)	500	449	89.75	30-120
\$ 71 Benzo (b) fluoranthe	500	585	116.97	30-120
\$ 74 Benzo (k) fluoranthe	500	407	81.48	30-120
\$ 79 Benzo (a) pyrene-d12	500	559	111.73	30-120
\$ 82 Perylene-d12 (SS)	500	504	100.88	30-120
\$ 85 Indeno (123-cd) pyre	500	508	101.52	30-120
\$ 88 Dibenz (ah) anthrace	500	495	99.02	30-120
\$ 91 Benzo (ghi) perylene	500	466	93.17	30-120

Data File: /var/chem/gcms/mp.i/P072911.b/mk09v1ac.d
 Date : 29-JUL-2011 13:01
 Client ID: A-6486, A-6487 MEDIA
 Sample Info: ,,,
 Purge Volume: 1.0
 Column Phase: Varian: SMS

Instrument: mp.i
 Operator: 11211
 Column diameter: 0.25



Data File: /var/chem/gcms/mp.i/P072911.b/mk09v1ao.d

Date : 29-JUL-2011 13:01

Client ID: A-6486,A-6487 MEDIA

Instrument: mp.i

Sample Info: ,,0,,,

Purge Volume: 1.0

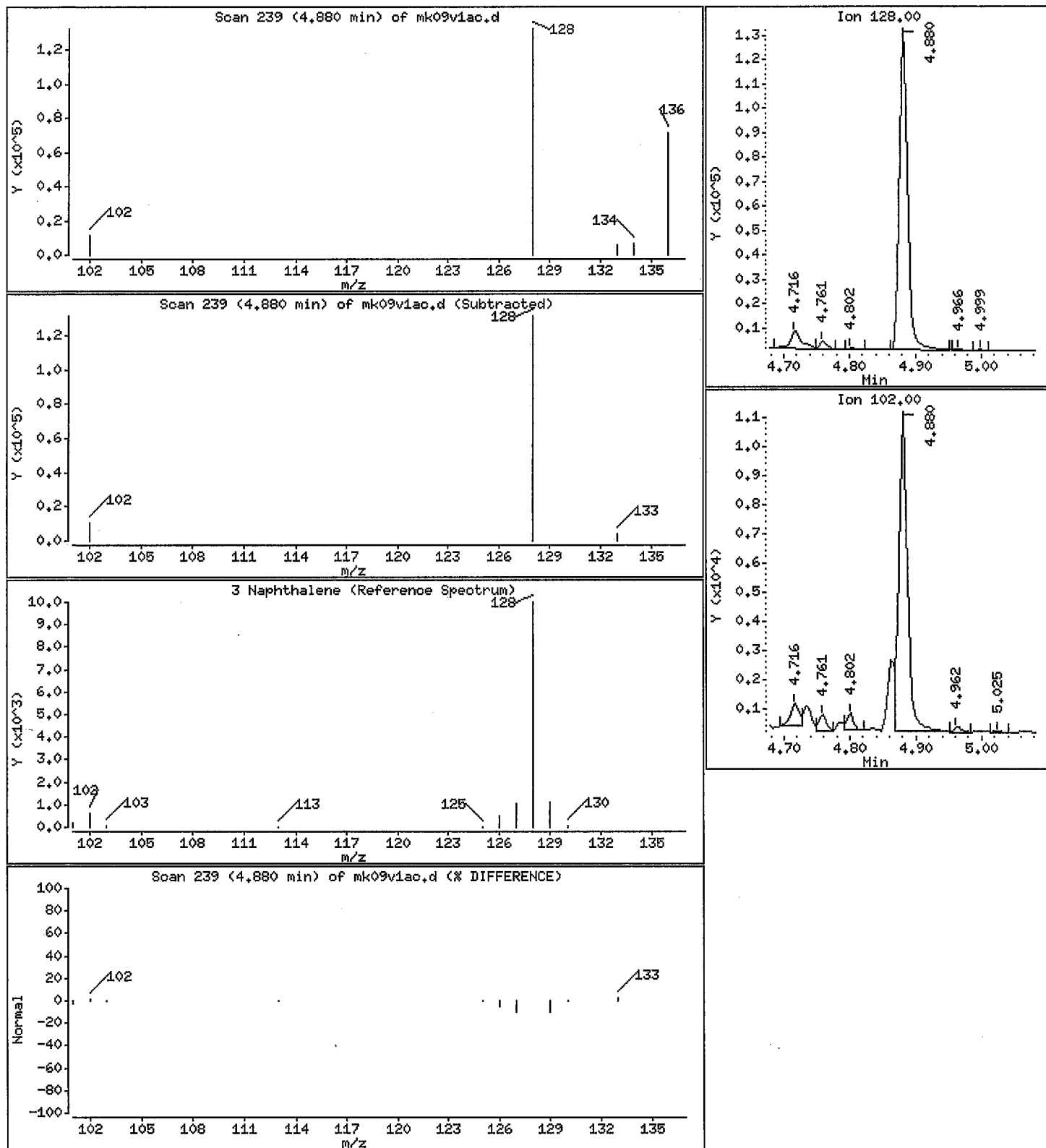
Operator: 11211

Column phase: Varian: 5MS

Column diameter: 0,25

3 Naphthalene

Concentration: 108 ng/sample



EM-BTRF-001212

Data File: /var/chem/gcms/mp.i/P072911.b/mk09v1ac.d

Date : 29-JUL-2011 13:01

Client ID: A-6486,A-6487 MEDIA

Instrument: mp.i

Sample Info: ,,0,,,

Purge Volume: 1.0

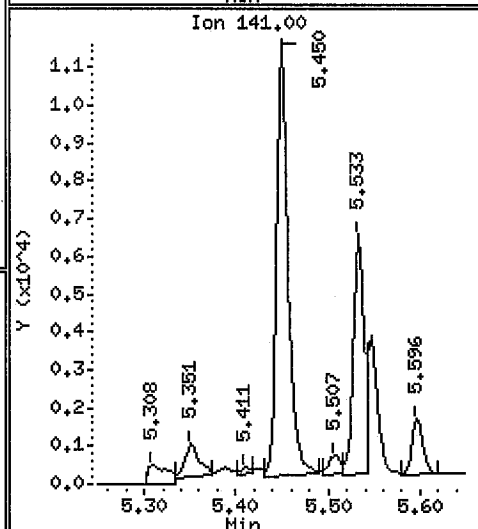
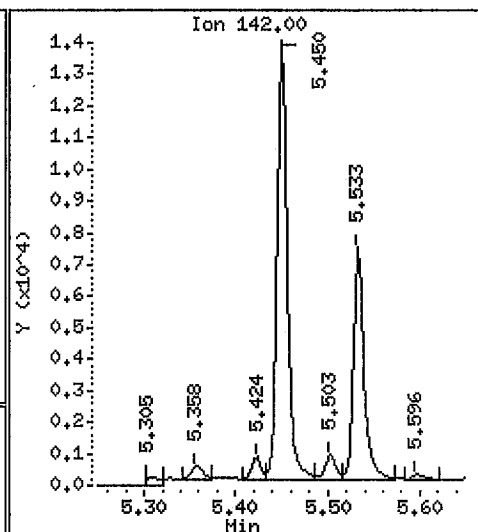
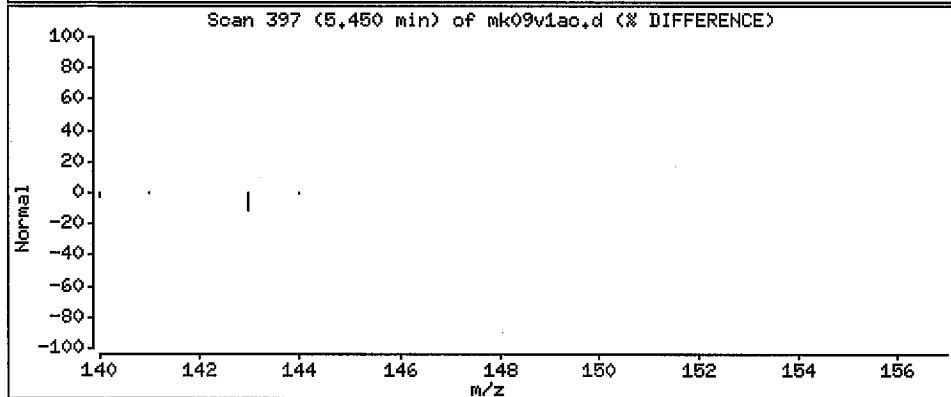
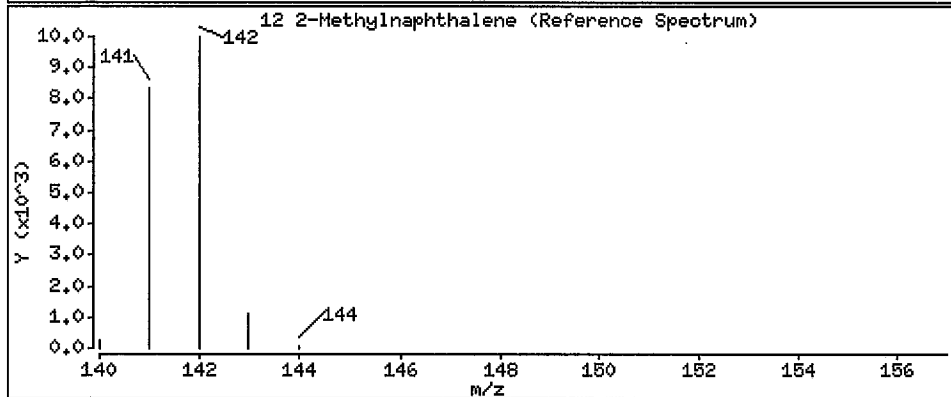
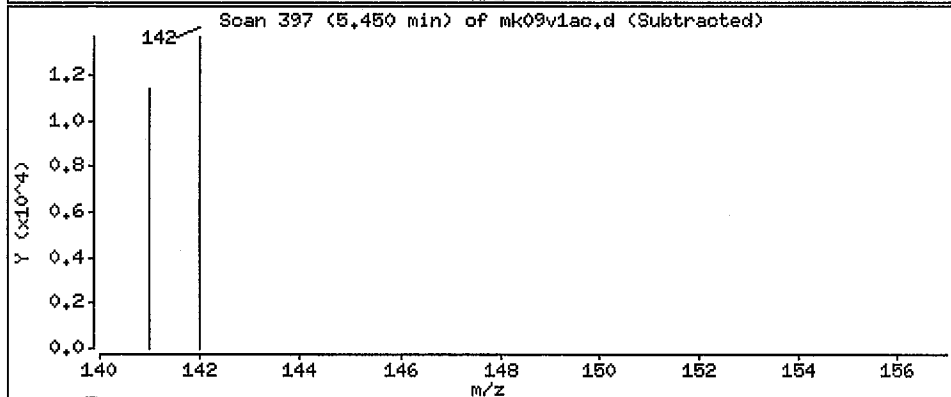
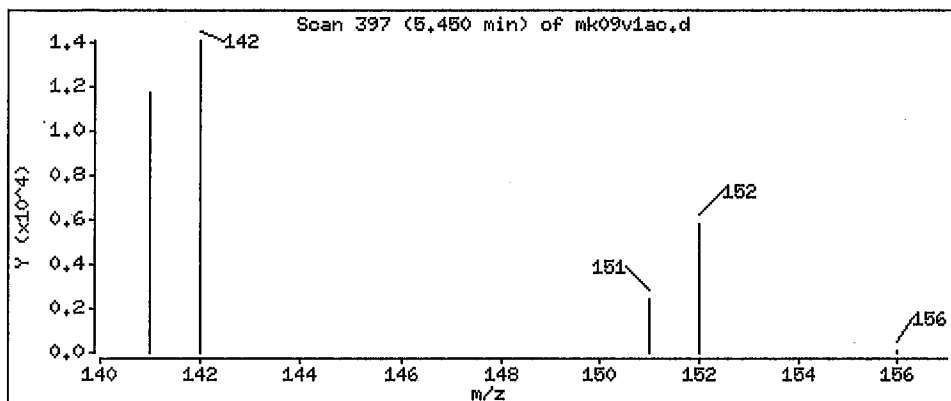
Operator: 11211

Column phase: Varian: 5MS

Column diameter: 0.25

12 2-Methylnaphthalene

Concentration: 15.3 ng/sample



Data File: /var/chem/gcms/mp.i/P072911.b/mk09v1ac.d

Date : 29-JUL-2011 13:01

Client ID: A-6486,A-6487 MEDIA

Instrument: mp.i

Sample Info: ,,0,,,

Purge Volume: 1.0

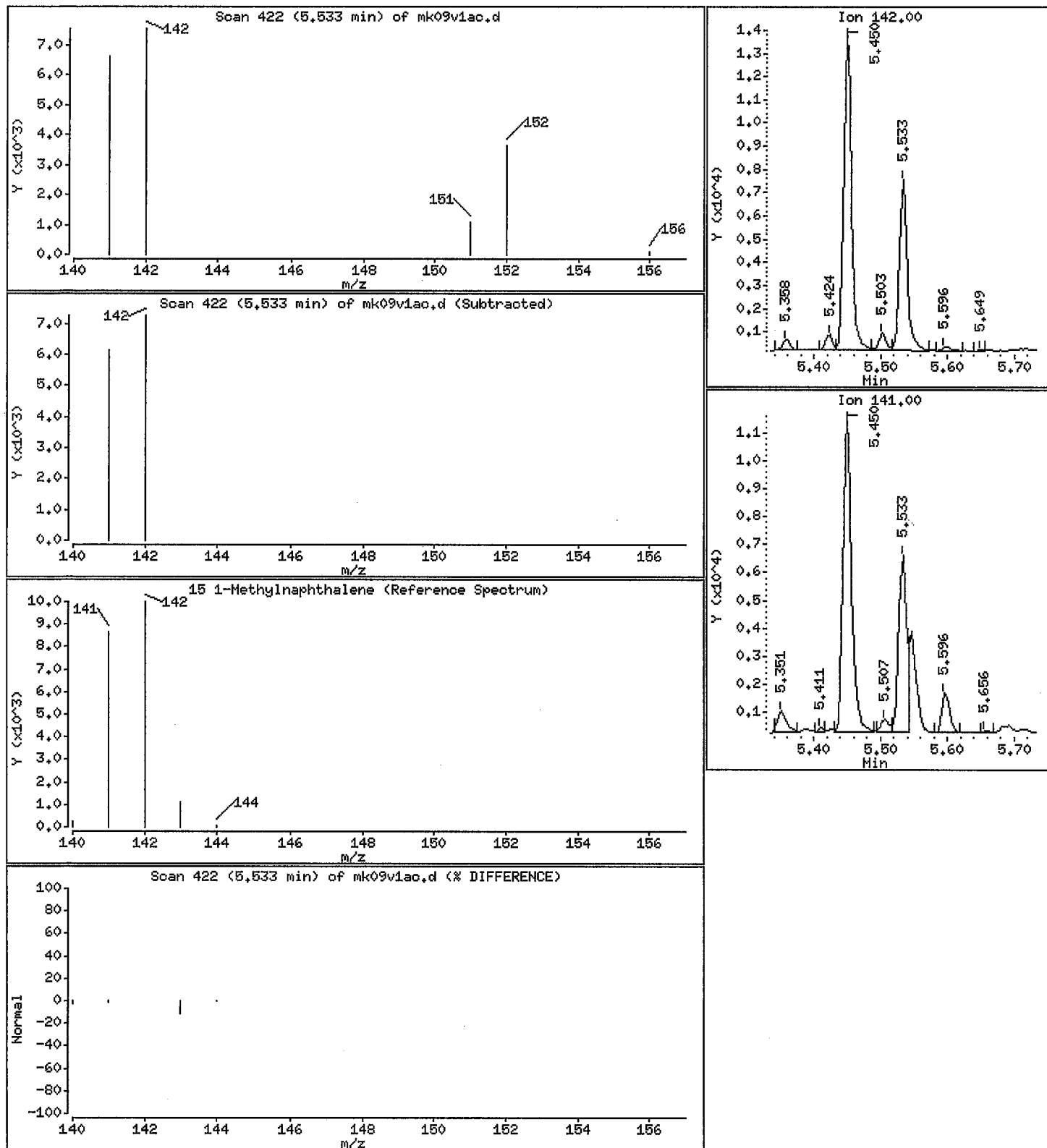
Operator: 11211

Column phase: Varian: 5MS

Column diameter: 0.25

15 1-Methylnaphthalene

Concentration: 8.73 ng/sample



EM-BTRF-001214

Data File: /var/chem/gcms/mp.i/P072911.b/mk09v1ac.d

Date : 29-JUL-2011 13:01

Client ID: A-6486,A-6487 MEDIA

Instrument: mp.i

Sample Info: ,,0,,,

Purge Volume: 1.0

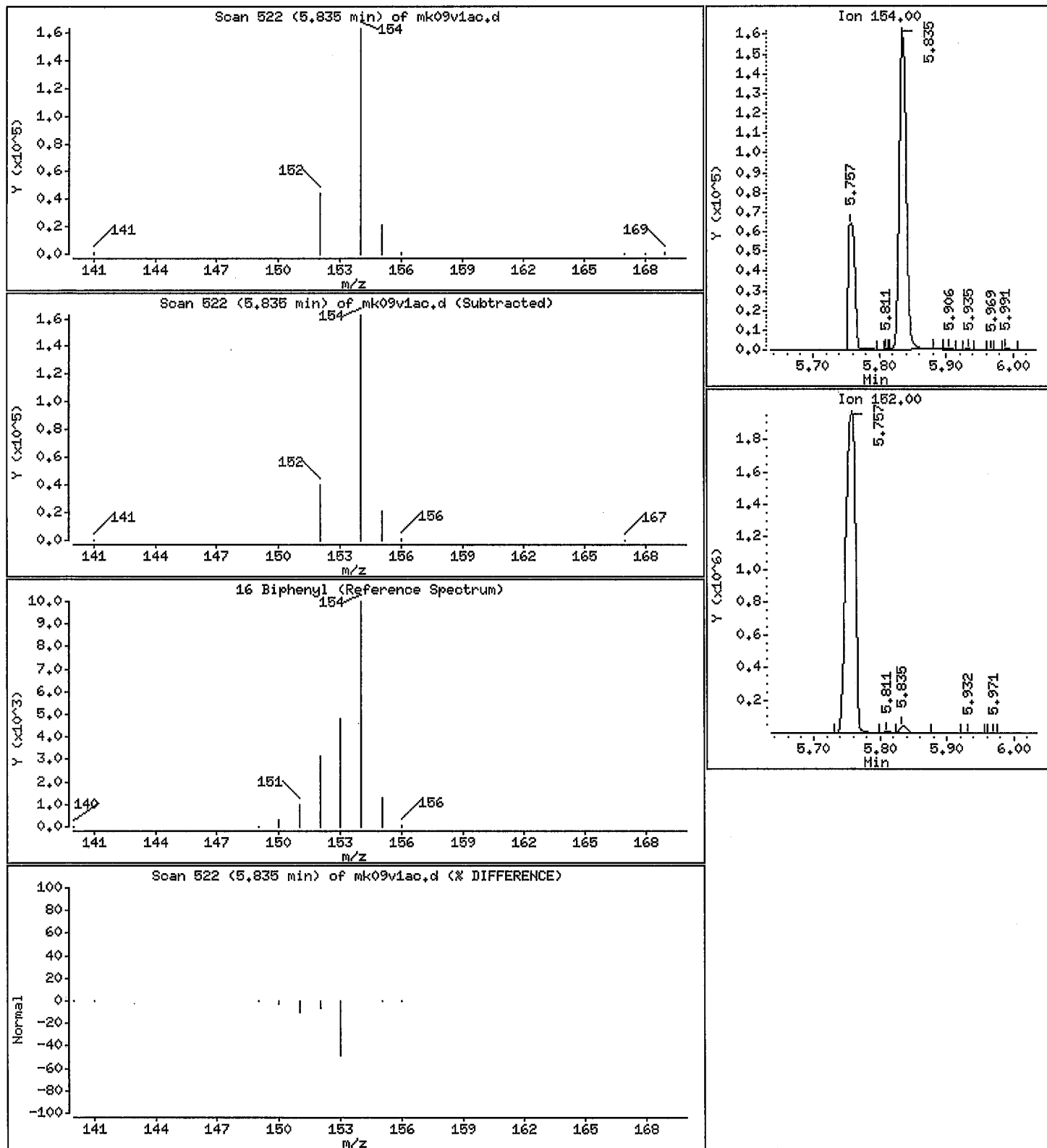
Operator: 11211

Column phase: Variant 5MS

Column diameter: 0.25

16 Biphenyl

Concentration: 130 ng/sample



EM-BTRF-001215

Data File: /var/chem/gcms/mp.i/P072911.b/mk09v1ac.d

Date : 29-JUL-2011 13:01

Client ID: A-6486,A-6487 MEDIA

Instrument: mp.i

Sample Info: ,,0,,,

Purge Volume: 1.0

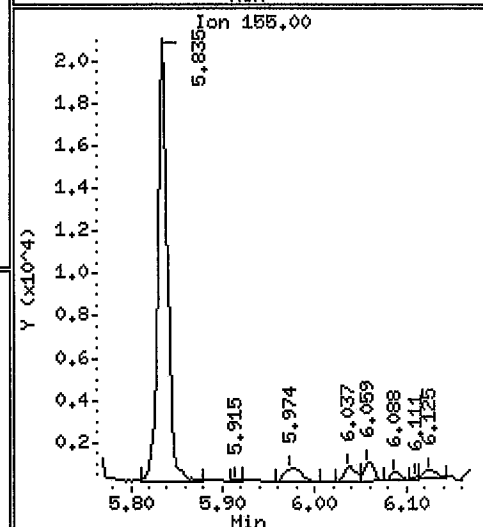
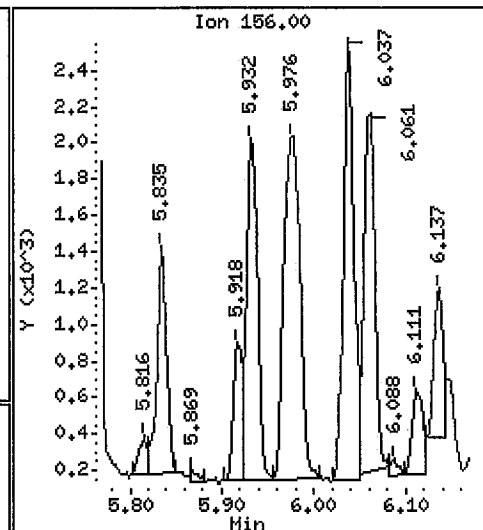
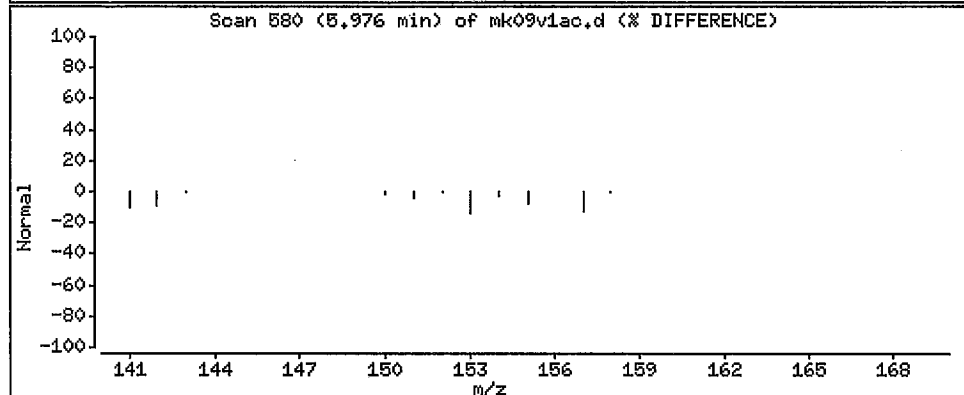
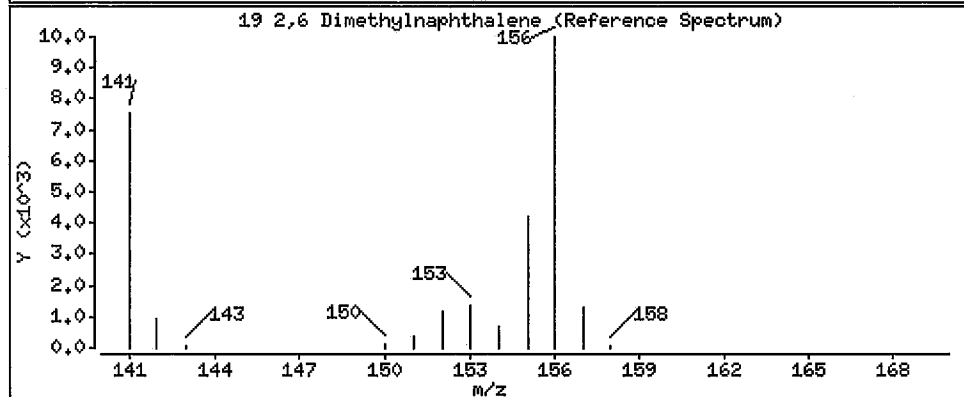
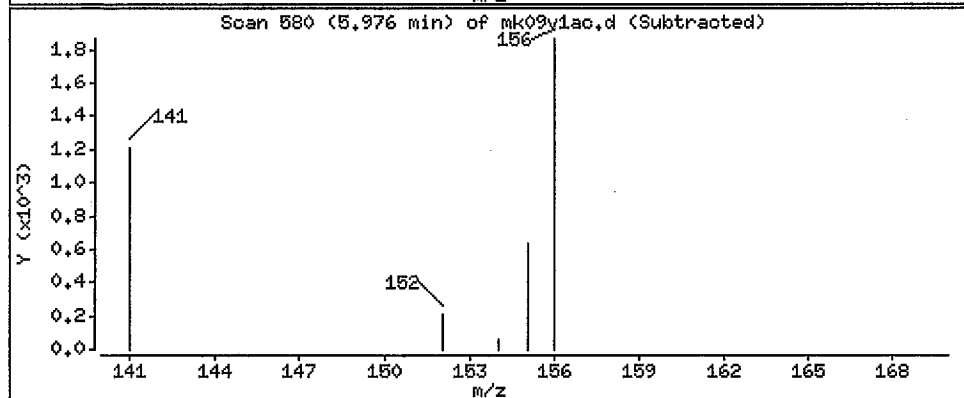
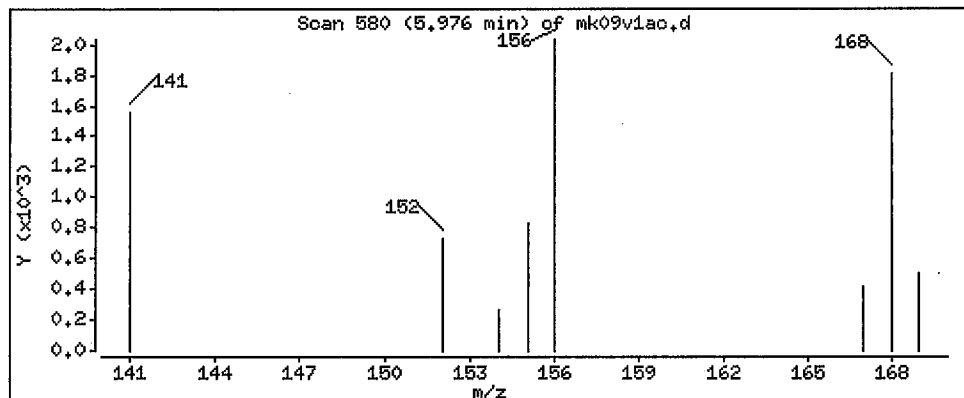
Operator: 11211

Column phase: Varian: 5MS

Column diameter: 0.25

19 2,6 Dimethylnaphthalene

Concentration: 3.67 ng/sample



Data File: /var/chem/gcms/mp.i/P072911.b/mk09v1ac.d

Date : 29-JUL-2011 13:01

Client ID: A-6486,A-6487 MEDIA

Instrument: mp.i

Sample Info: ,,0,,,

Purge Volume: 1.0

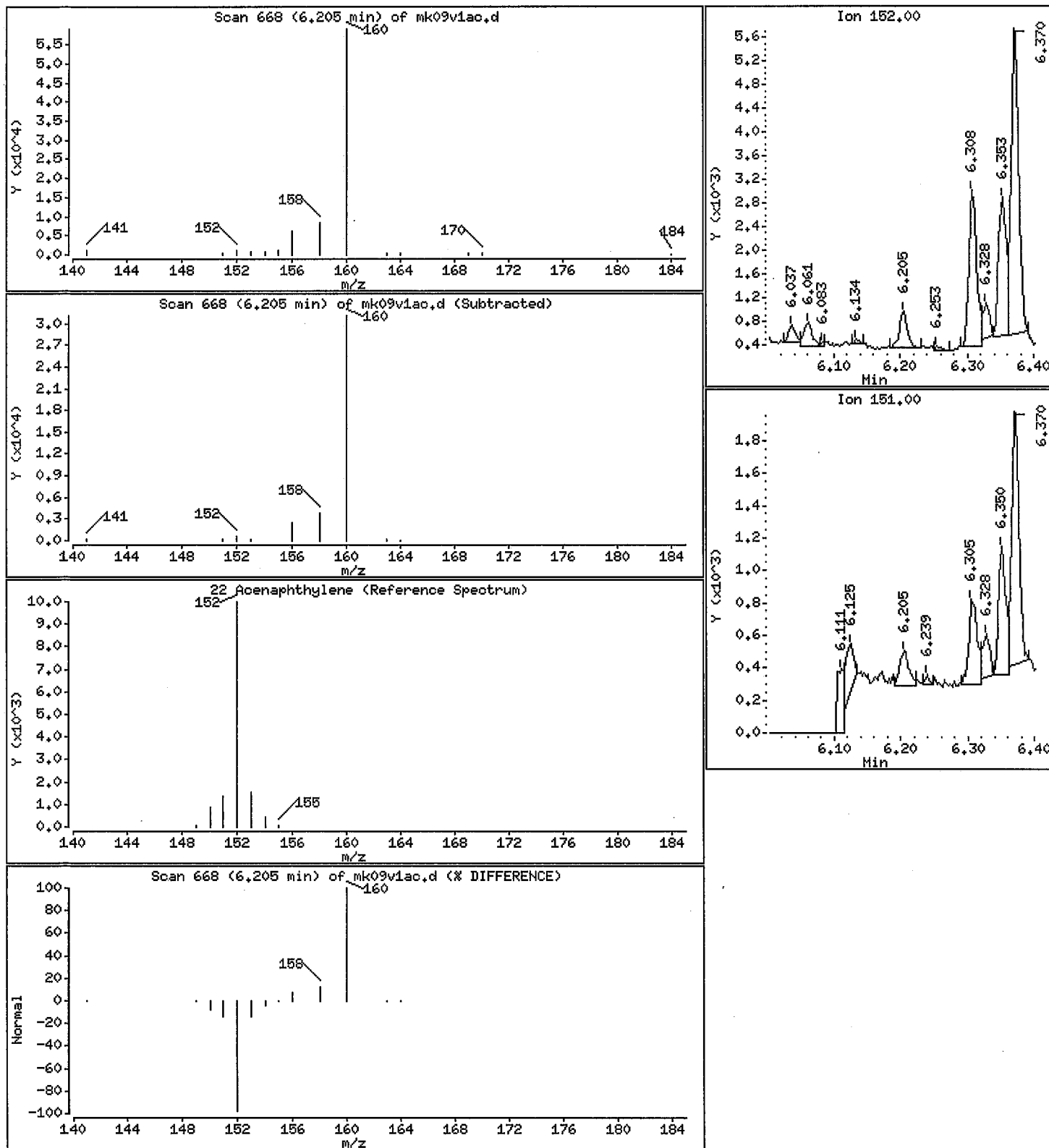
Operator: 11211

Column phase: Variant 5MS

Column diameter: 0.25

22 Acenaphthylene

Concentration: 0.465 ng/sample



EM-BTRF-001217

Data File: /var/chem/gcms/mp.i/P072911.b/mk09v1ao.d

Date: 29-JUL-2011 13:01

Client ID: A-6486,A-6487 MEDIA

Instrument: mp.i

Sample Info: ,,0,,,

Purge Volume: 1.0

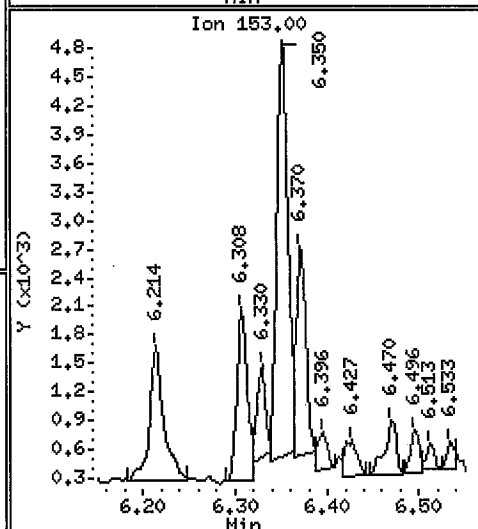
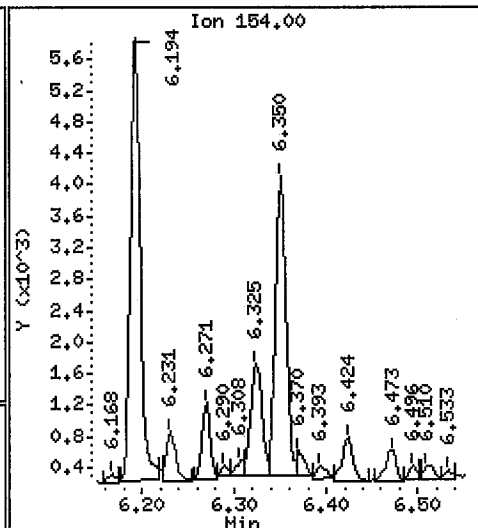
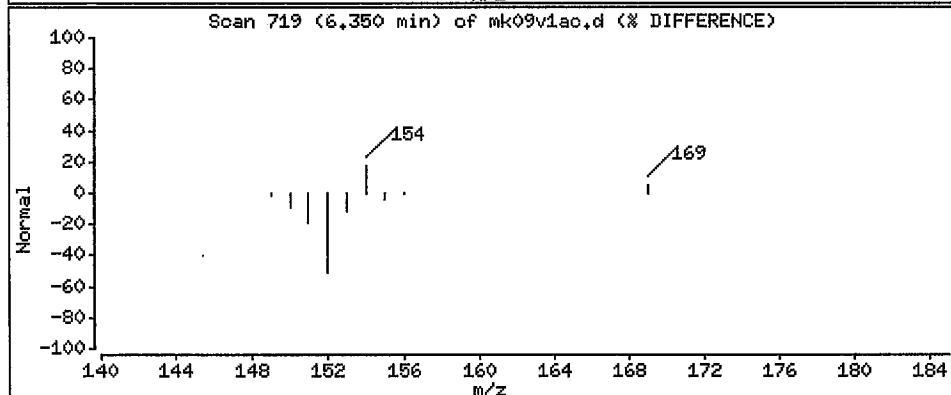
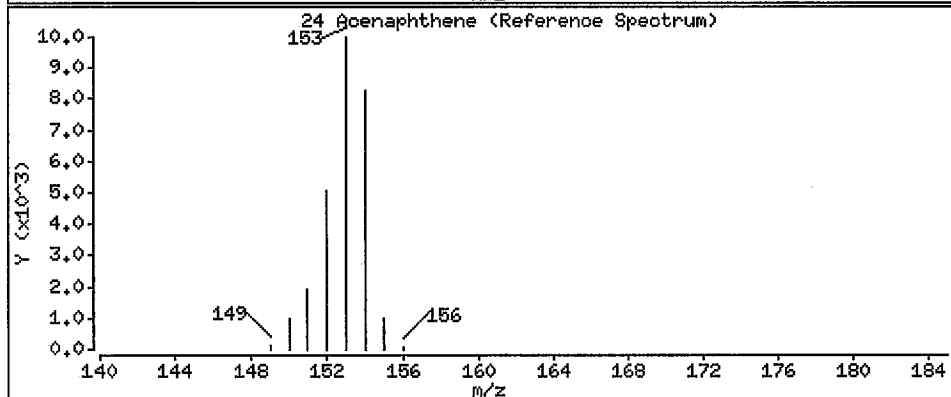
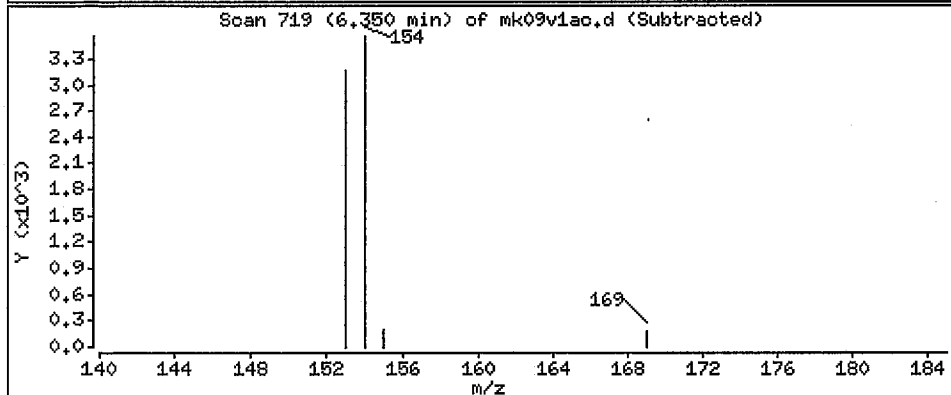
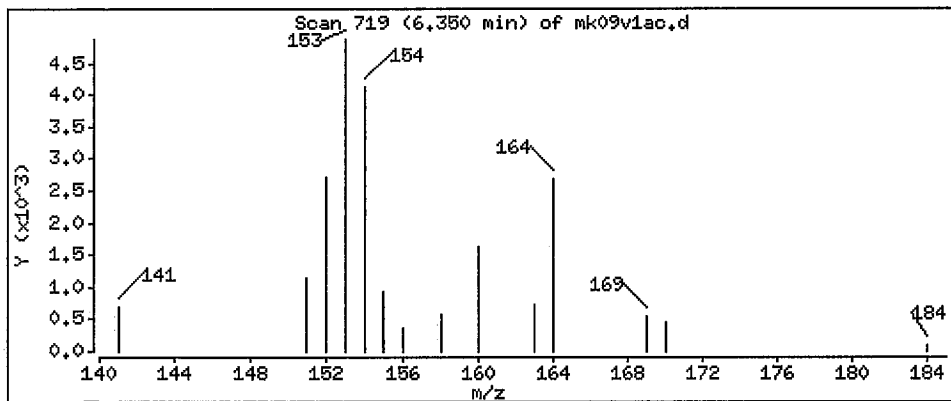
Operator: 11211

Column phase: Varian: 5MS

Column diameter: 0.25

24 Acenaphthene

Concentration: 4.17 ng/sample



Data File: /var/chem/gcms/mp.i/P072911.b/mk09v1a0.d

Date : 29-JUL-2011 13:01

Client ID: A-6486,A-6487 MEDIA

Instrument: mp.i

Sample Info: ,,0,,,

Purge Volume: 1.0

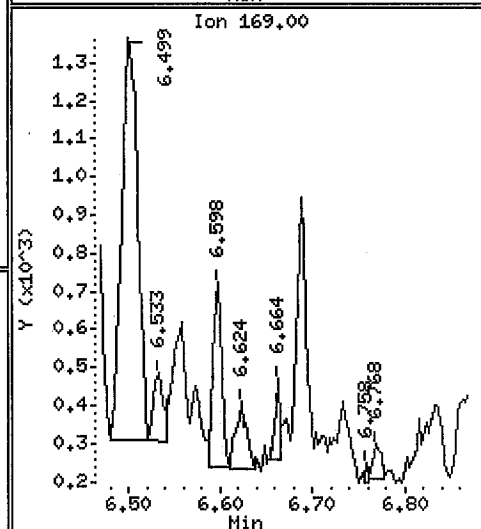
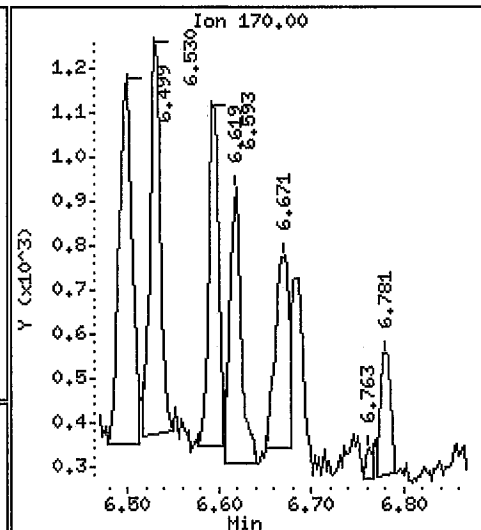
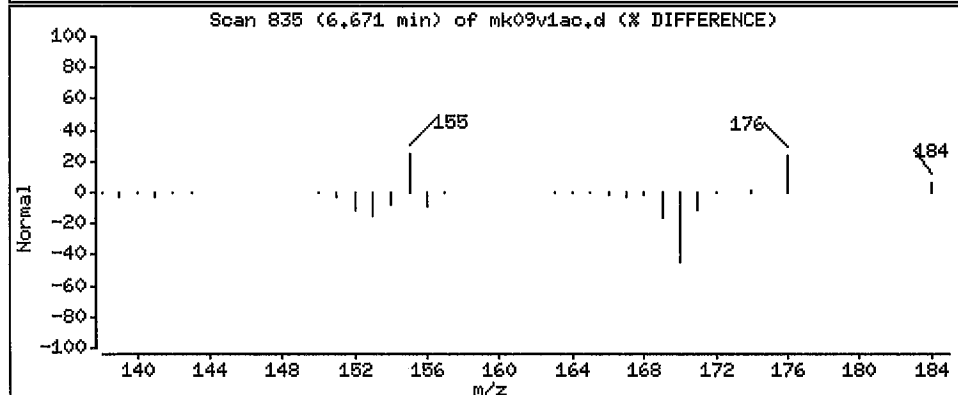
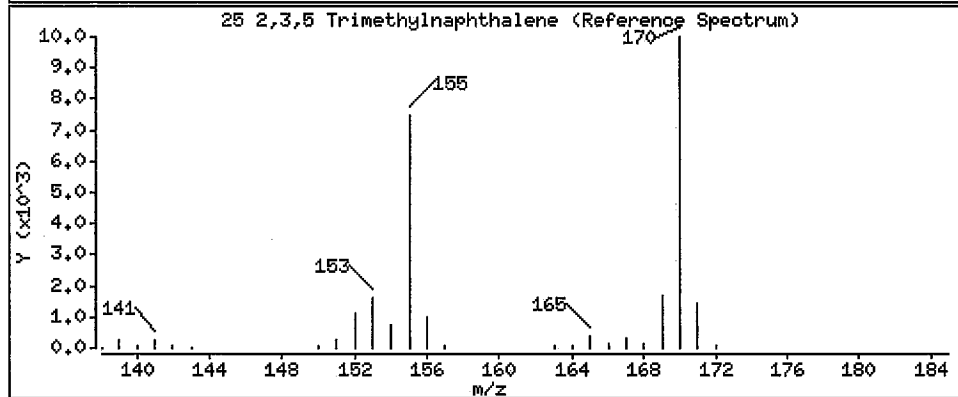
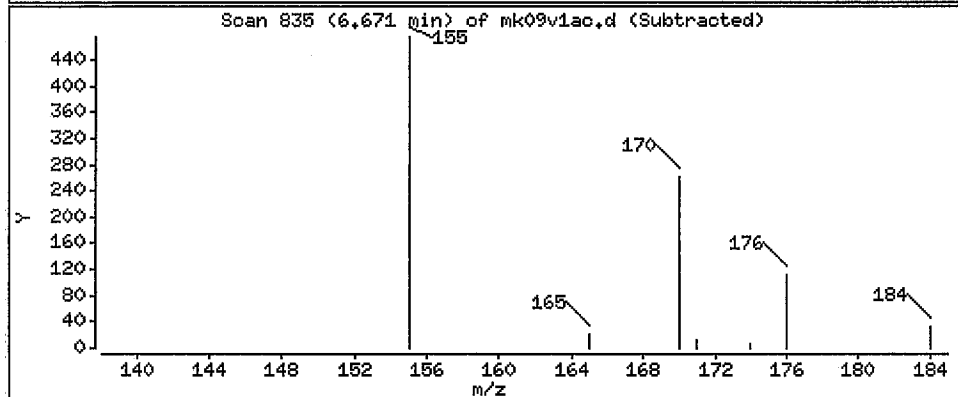
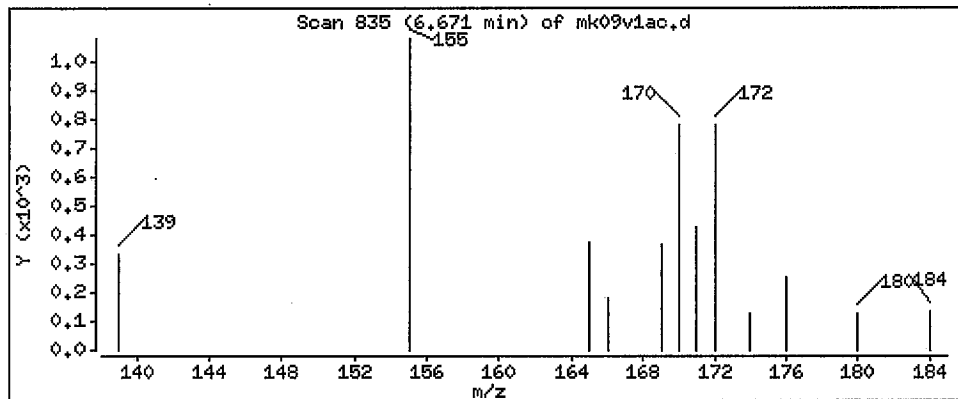
Operator: 11211

Column phase: Varian: 5MS

Column diameter: 0.25

25 2,3,5 Trimethylnaphthalene

Concentration: 0.900 ng/sample



Data File: /var/chem/gcms/mp.i/P072911.b/mk09v1ao.d

Date : 29-JUL-2011 13:01

Client ID: A-6486,A-6487 MEDIA

Instrument: mp.i

Sample Info: ,,0,,

Purge Volume: 1.0

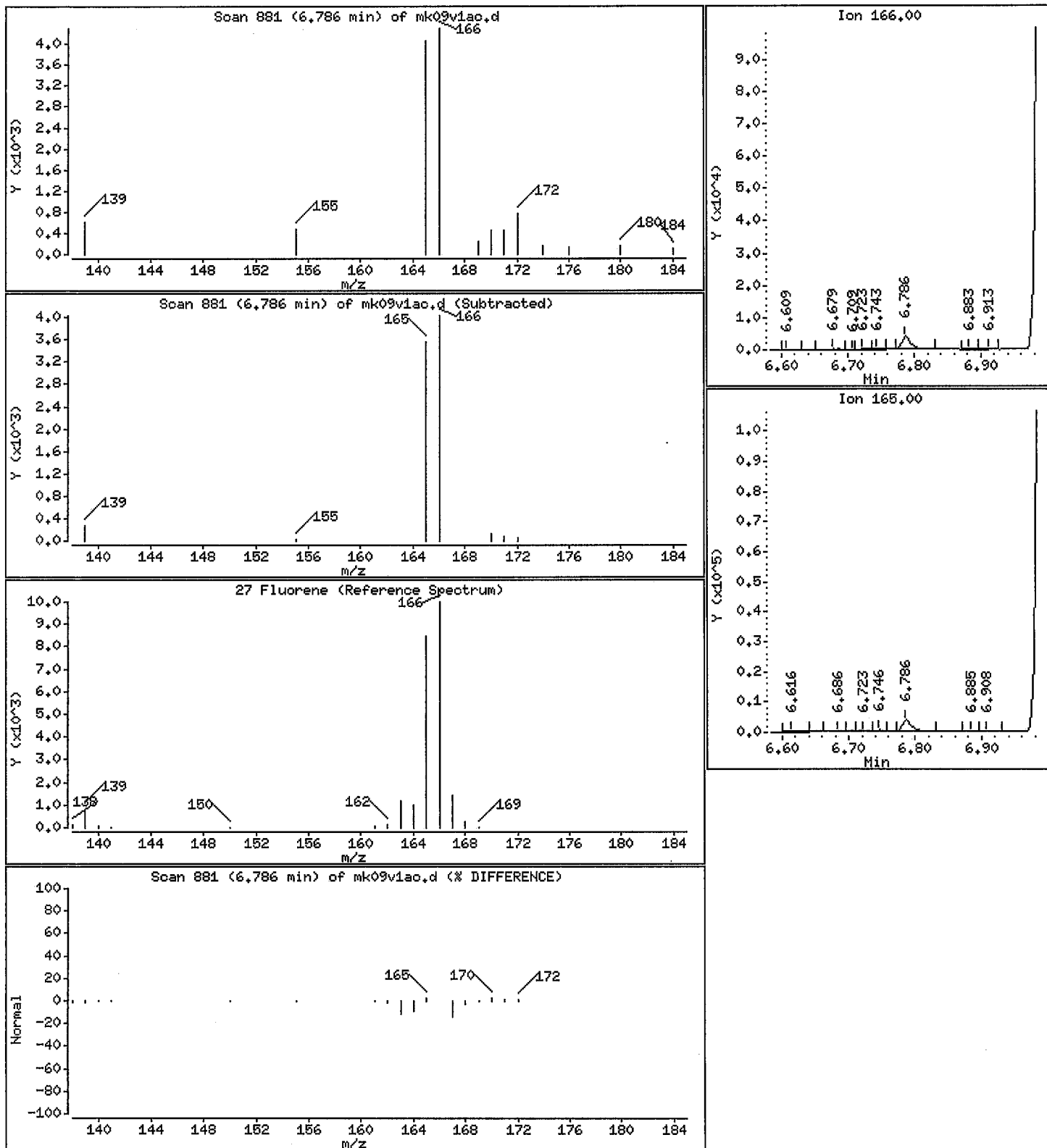
Operator: 11211

Column phase: Varian: 5MS

Column diameter: 0.25

27 Fluorene

Concentration: 5.06 ng/sample



EM-BTRF-001220

Data File: /var/chem/gcms/mp.i/P072911.b/mk09v1ao.d

Date : 29-JUL-2011 13:01

Client ID: A-6486,A-6487 MEDIA

Instrument: mp.i

Sample Info: ,,0,,

Purge Volume: 1.0

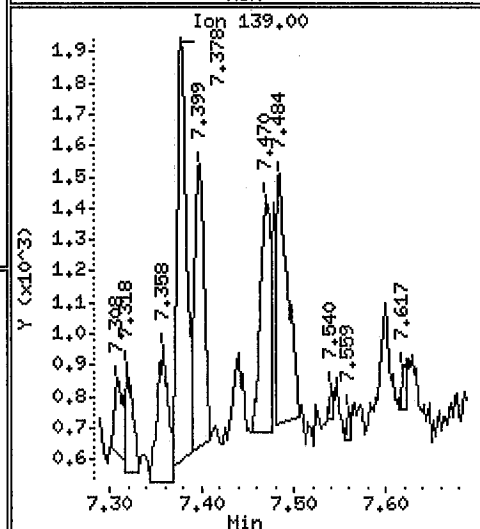
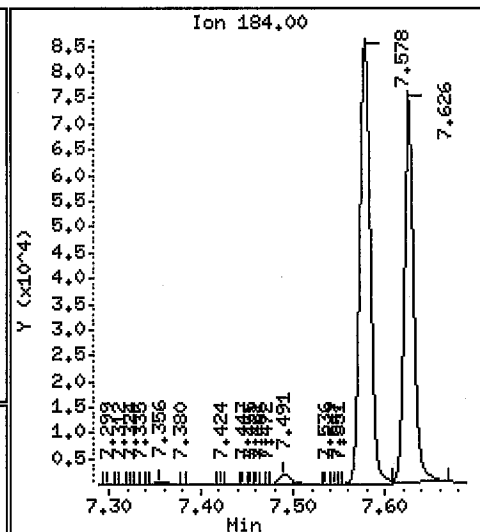
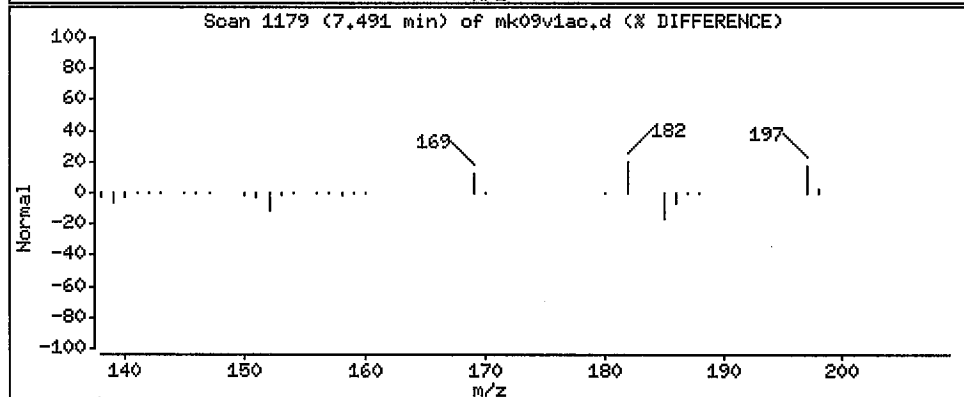
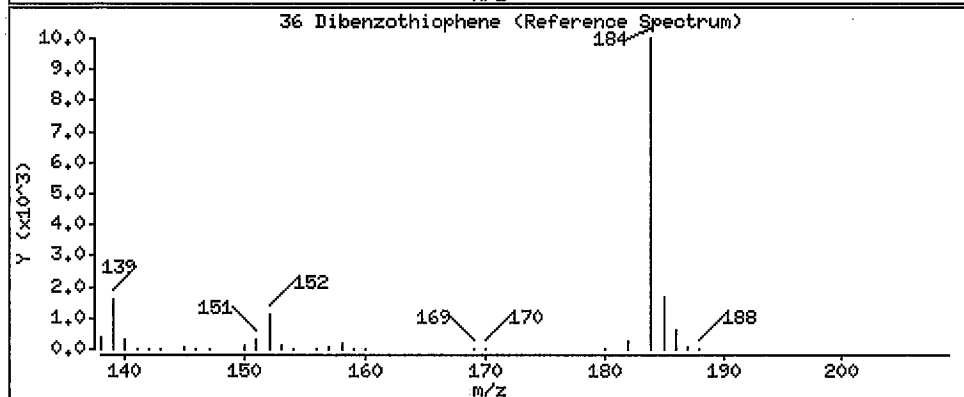
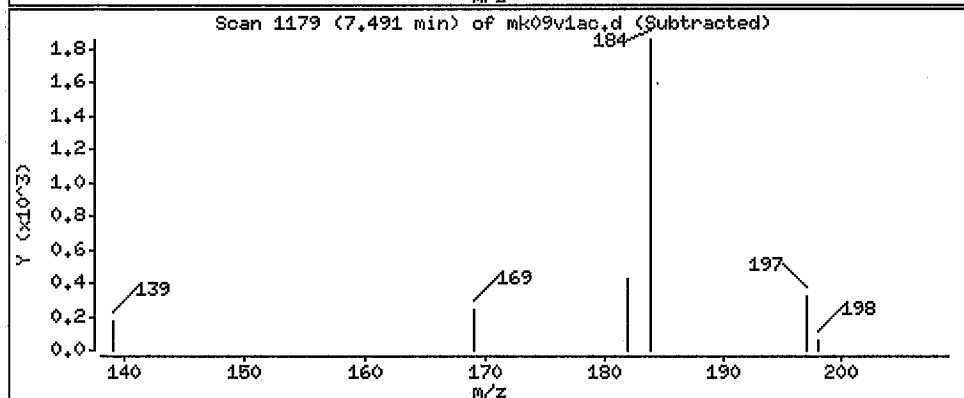
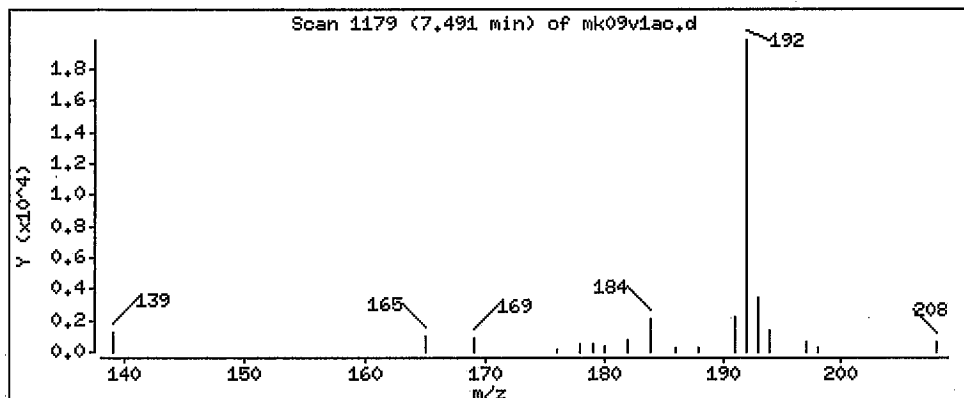
Operator: 11211

Column phase: Variant: 5MS

Column diameter: 0.25

36 Dibenzothiophene

Concentration: 1.83 ng/sample



Data File: /var/chem/gcms/mp.i/P072911.b/mk09v1ao.d

Date : 29-JUL-2011 13:01

Client ID: A-6486,A-6487 MEDIA

Instrument: mp.i

Sample Info: ,,0,,,

Purge Volume: 1.0

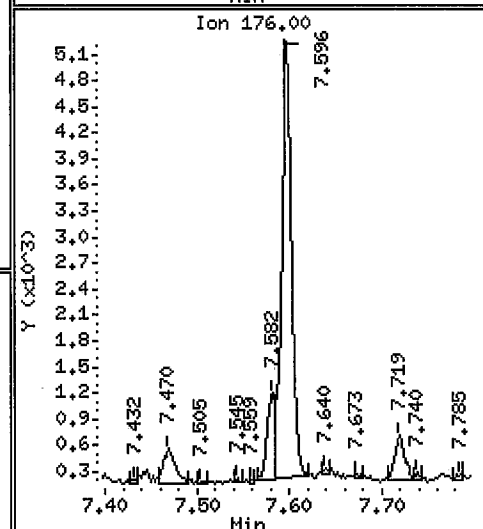
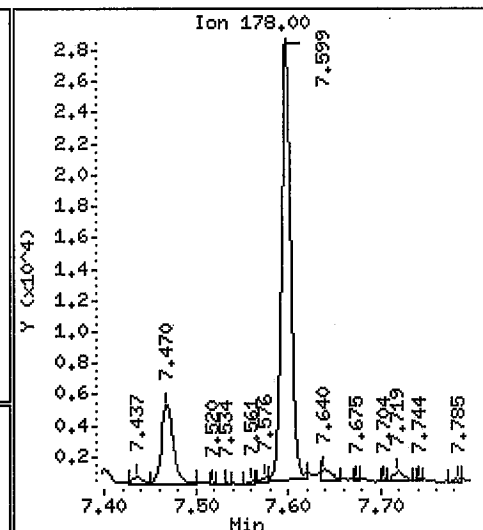
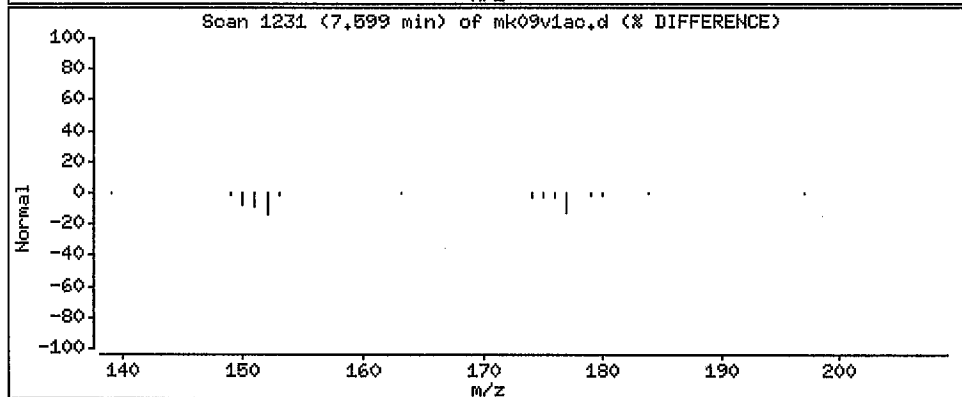
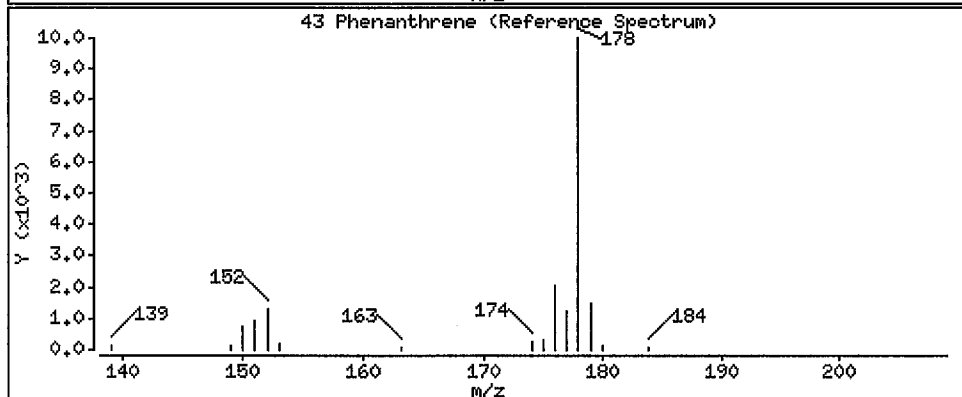
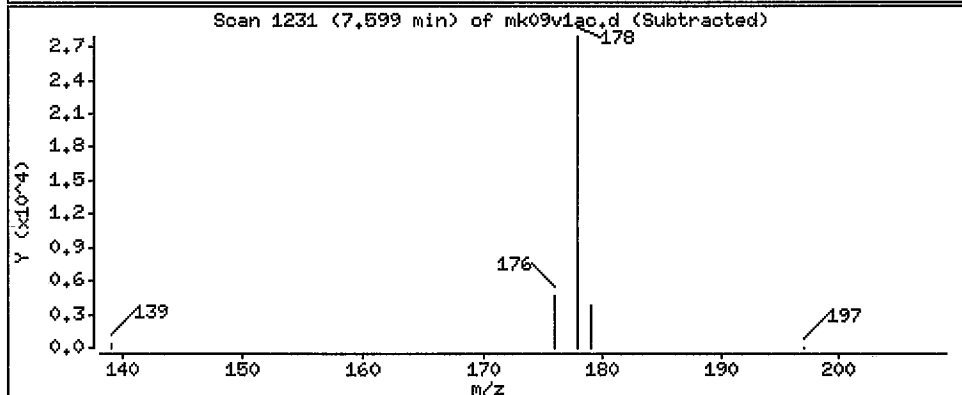
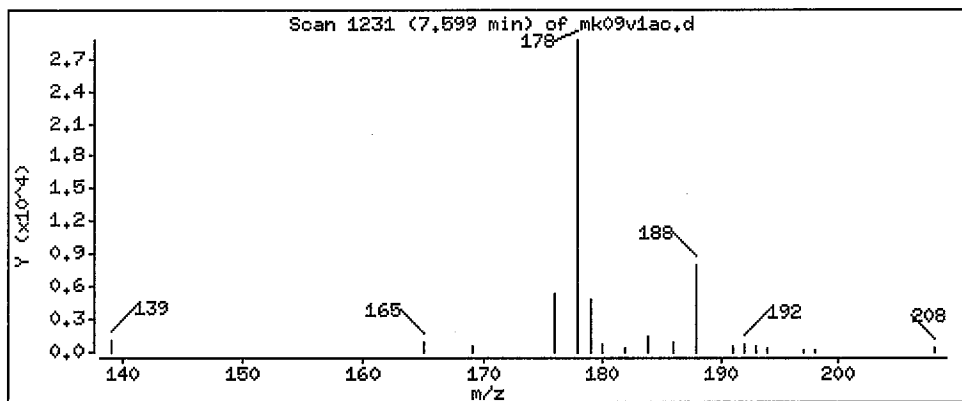
Operator: 11211

Column phase: Varian: 5MS

Column diameter: 0.25

43 Phenanthrene

Concentration: 21.5 ng/sample



Data File: /var/chem/gcms/mp.i/P072911.b/mk09v1ac.d

Date : 29-JUL-2011 13:01

Client ID: A-6486,A-6487 MEDIA

Instrument: mp.i

Sample Info: ,,0,,,

Purge Volume: 1.0

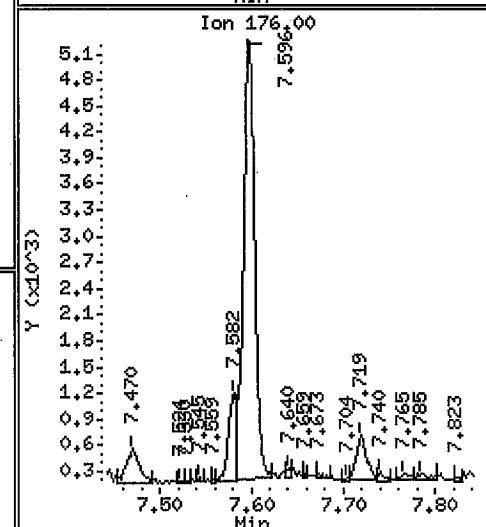
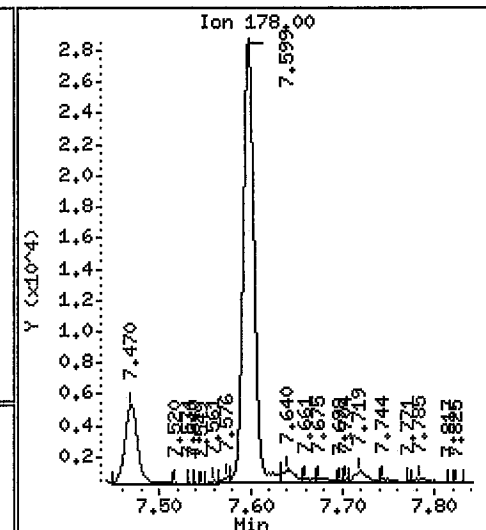
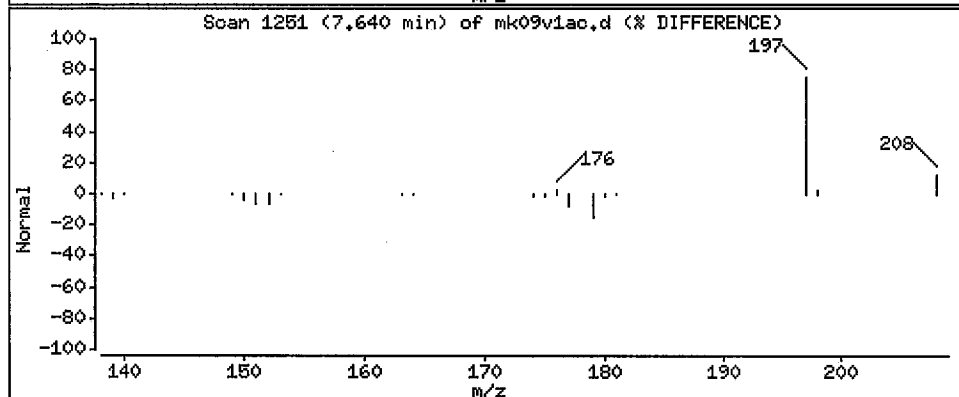
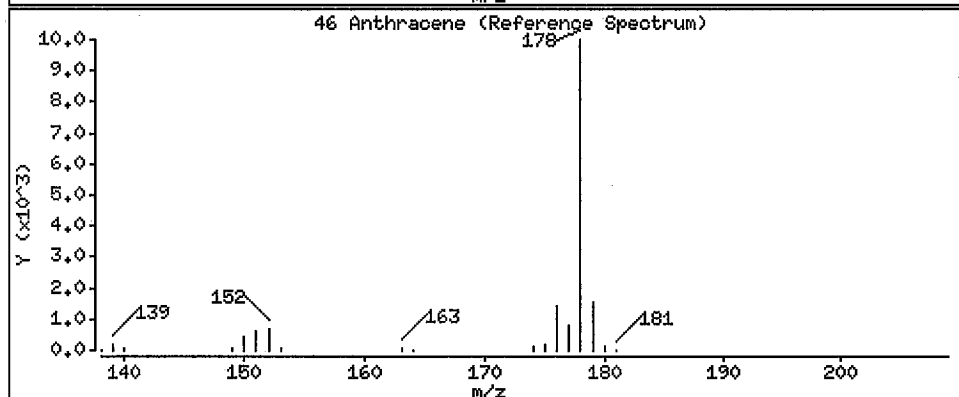
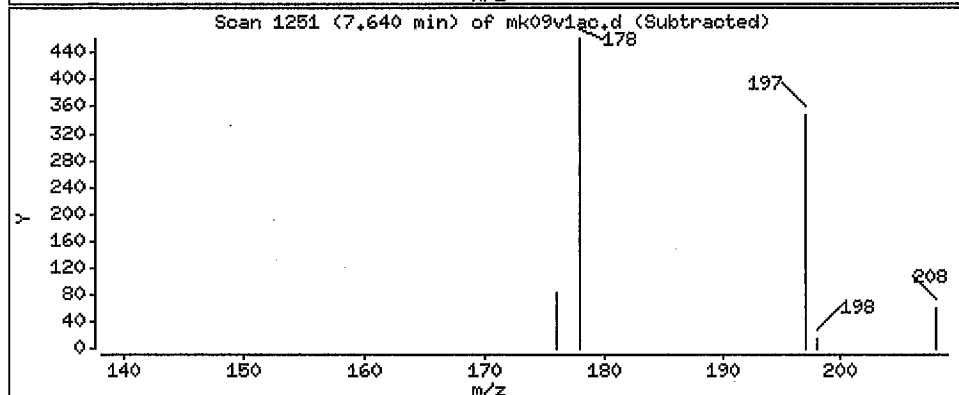
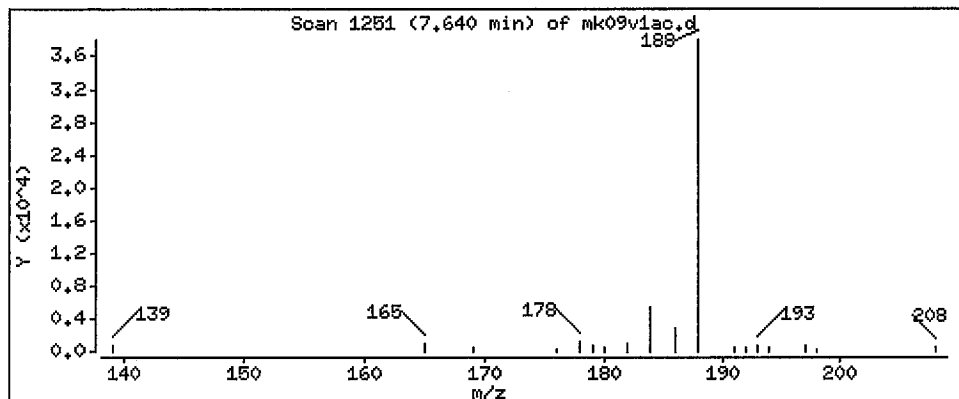
Operator: 11211

Column phase: Varian: 5MS

Column diameter: 0.25

46 Anthracene

Concentration: 0.748 ng/sample



EM-BTRF-001223

Data File: /var/chem/gcms/mp.i/P072911.b/mk09v1a0.d

Date: 29-JUL-2011 13:01

Client ID: A-6486,A-6487 MEDIA

Instrument: mp.i

Sample Info: ,,0,,,

Purge Volume: 1.0

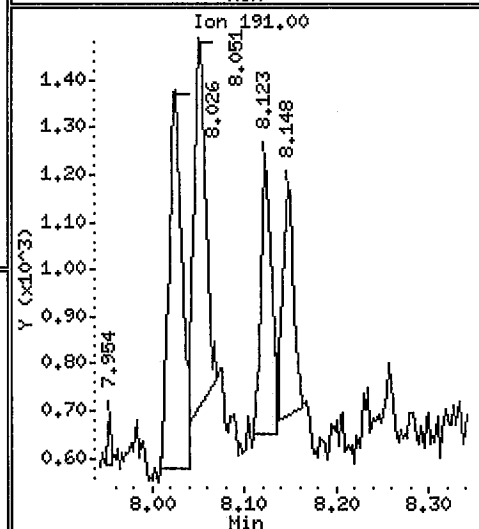
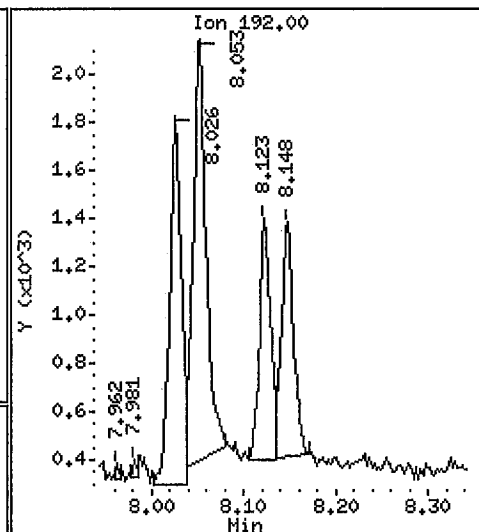
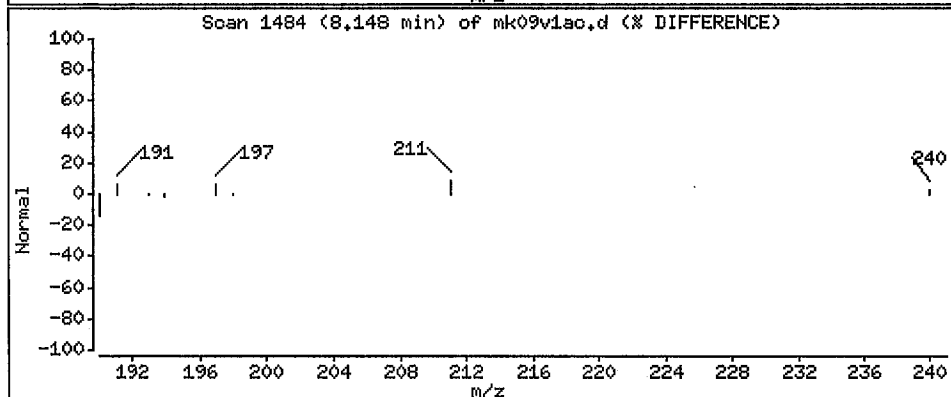
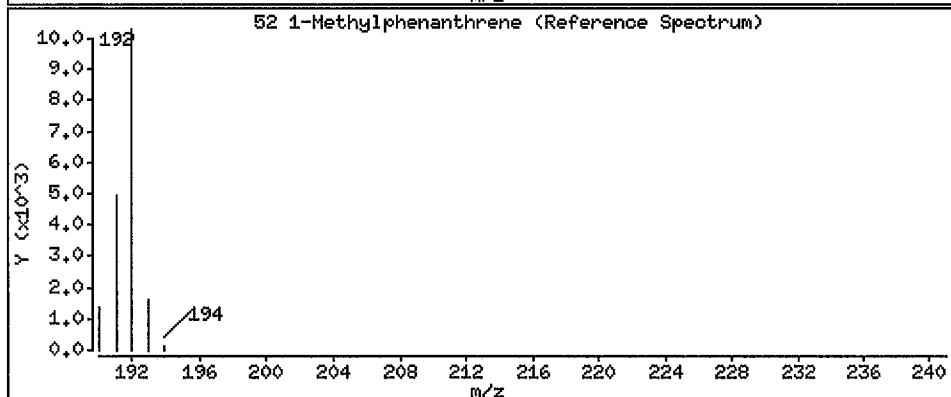
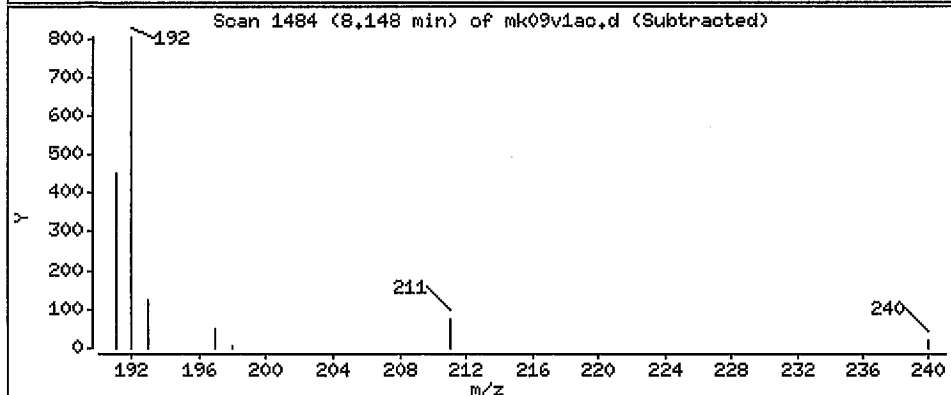
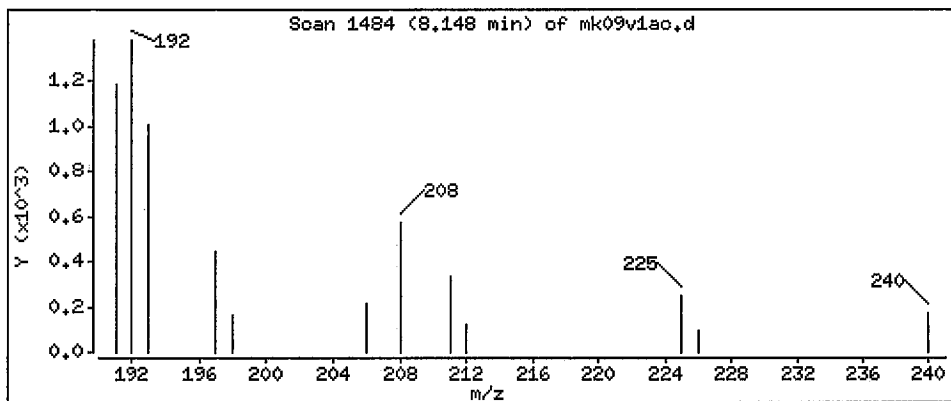
Operator: 11211

Column phase: Variant: 5MS

Column diameter: 0.25

52 1-Methylphenanthrene

Concentration: 1.49 ng/sample



Data File: /var/chem/gcms/mp.i/P072911.b/mk09v1ac.d

Date : 29-JUL-2011 13:01

Client ID: A-6486,A-6487 MEDIA

Instrument: mp.i

Sample Info: ,,0,,,

Purge Volume: 1.0

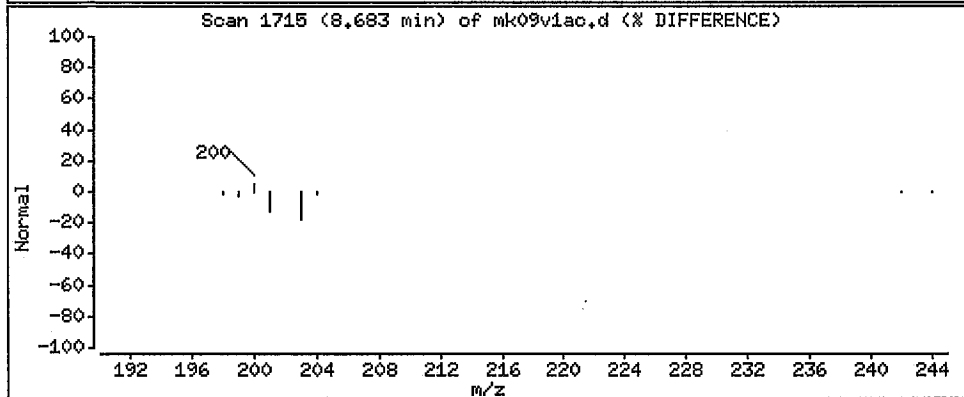
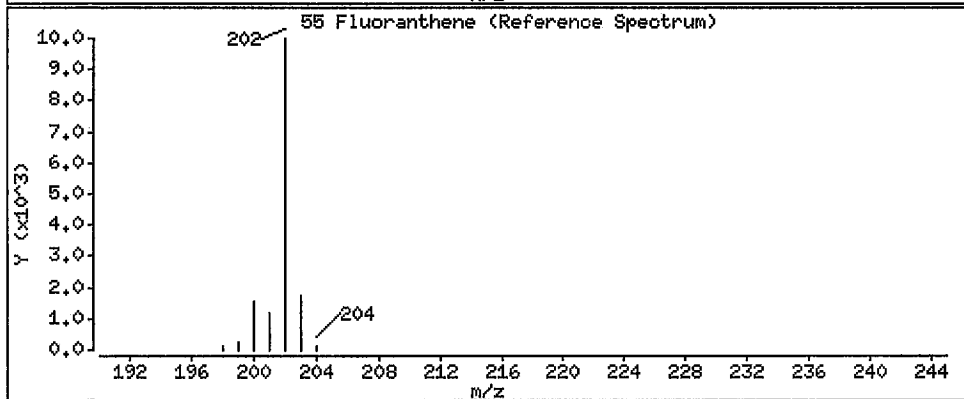
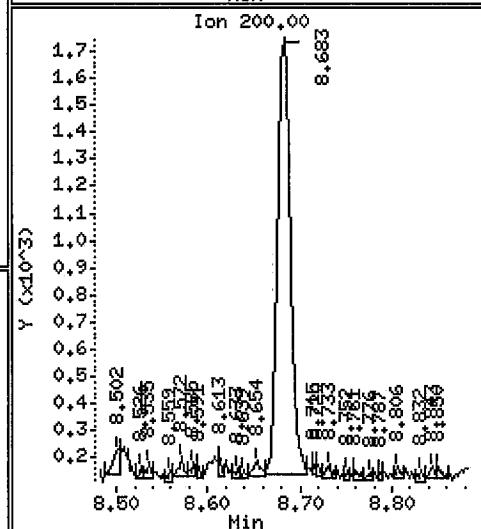
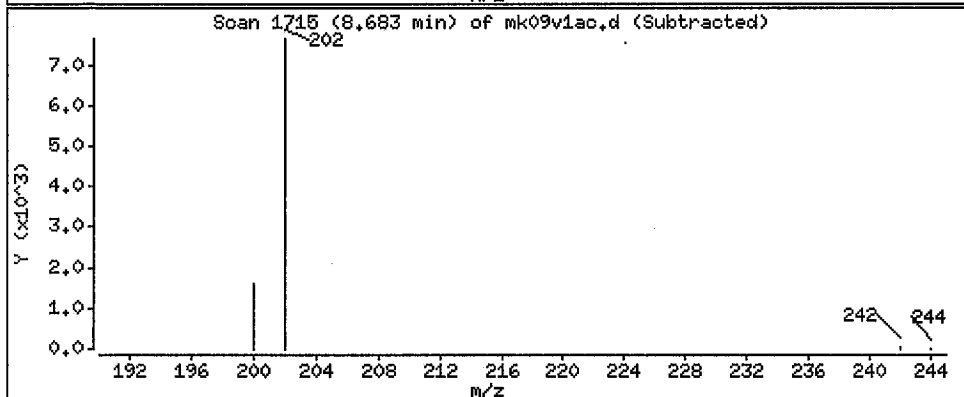
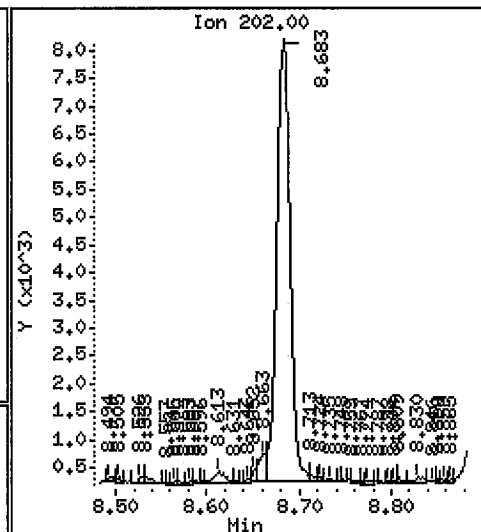
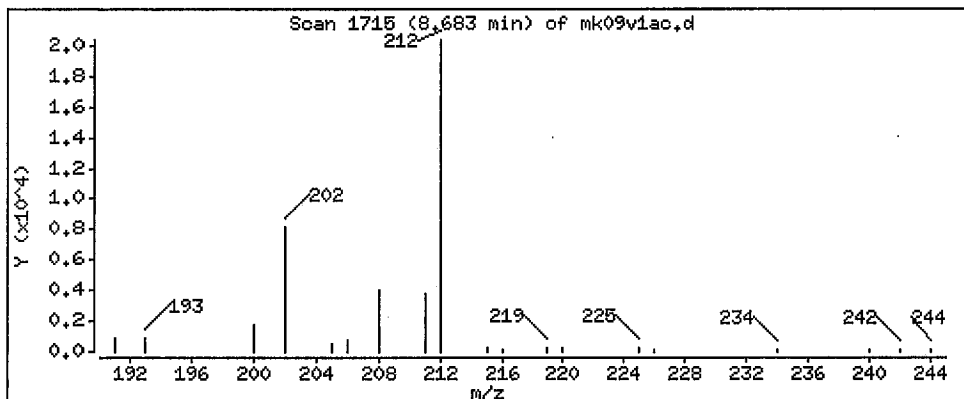
Operator: 11211

Column phase: Varian: 5MS

Column diameter: 0.25

55 Fluoranthene

Concentration: 5.92 ng/sample



EM-BTRF-001225

Data File: /var/chem/gcms/mp.i/P072911.b/mk09v1ac.d

Date : 29-JUL-2011 13:01

Client ID: A-6486,A-6487 MEDIA

Instrument: mp.i

Sample Info: ,,0,,,

Purge Volume: 1.0

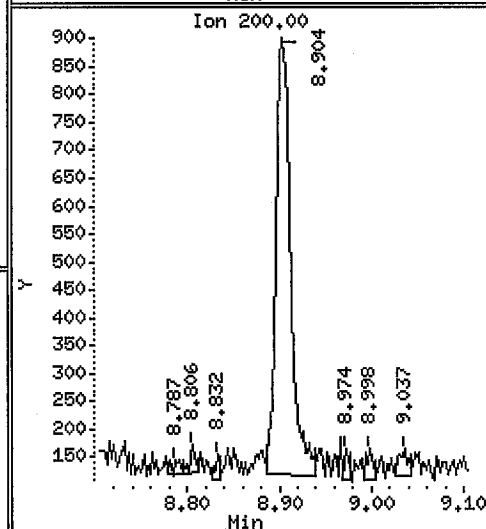
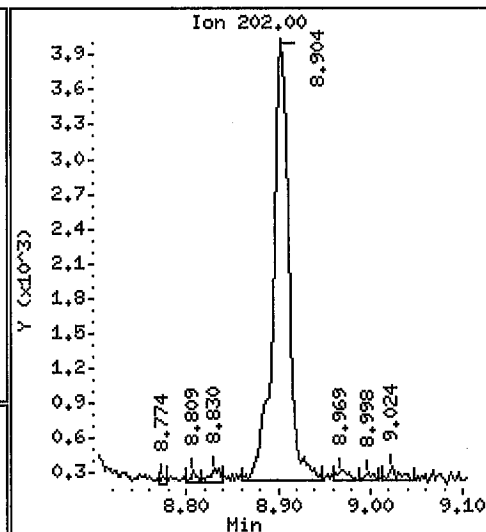
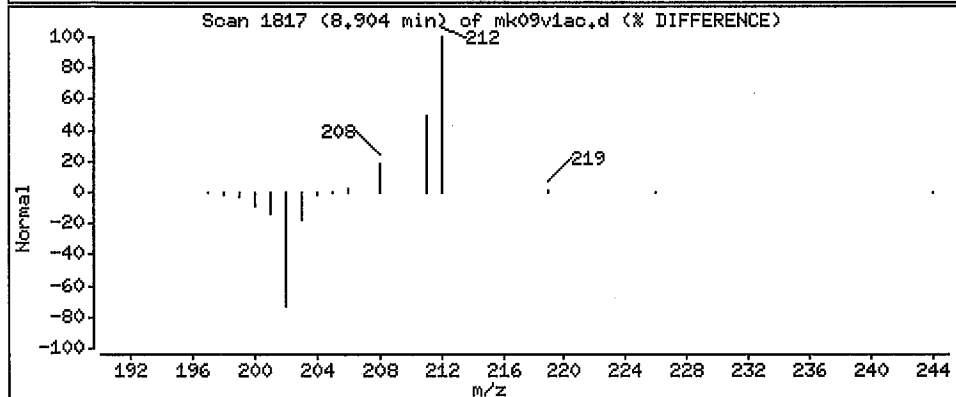
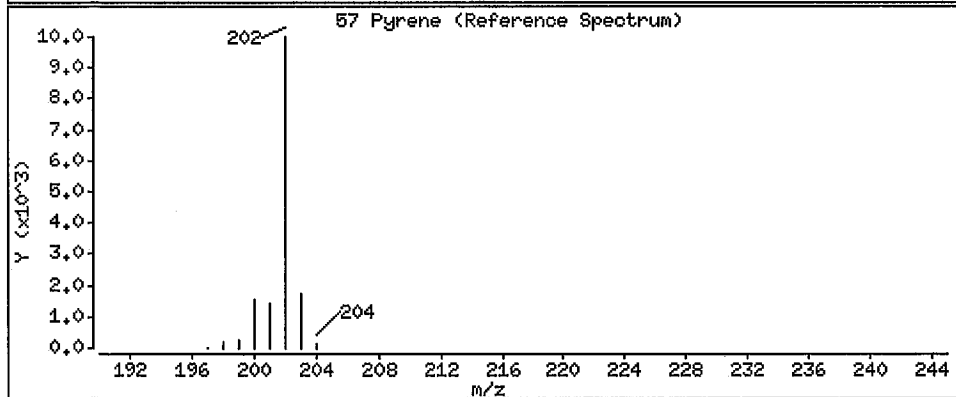
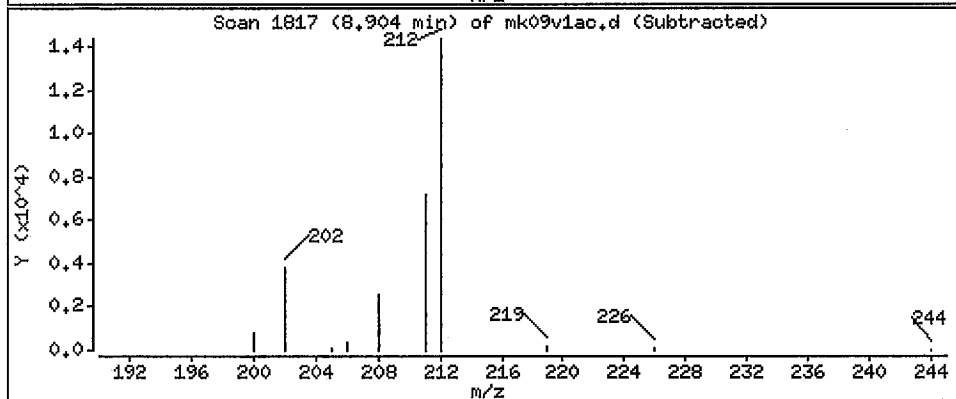
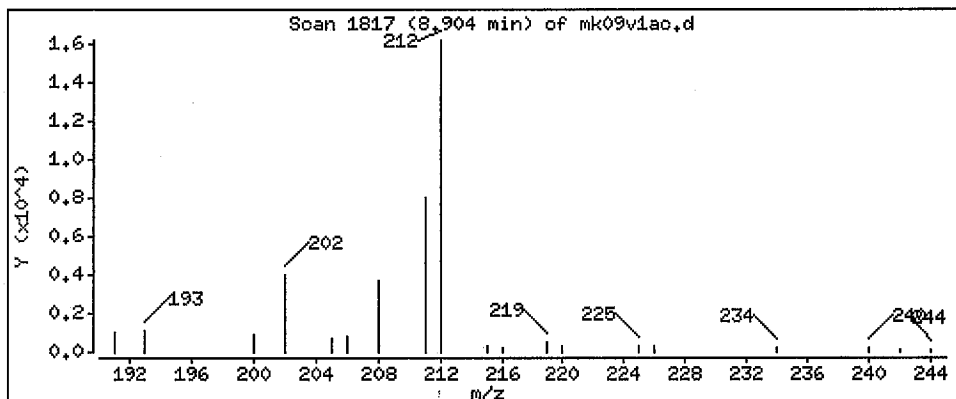
Operator: 11211

Column phase: Varian: 5MS

Column diameter: 0.25

57 Pyrene

Concentration: 3.26 ng/sample



EM-BTRF-001226

Data File: /var/chem/gcms/mp.i/P072911.b/mk09v1ao.d

Date : 29-JUL-2011 13:01

Client ID: A-6486,A-6487 MEDIA

Instrument: mp.i

Sample Info: ,,0,,,

Purge Volume: 1.0

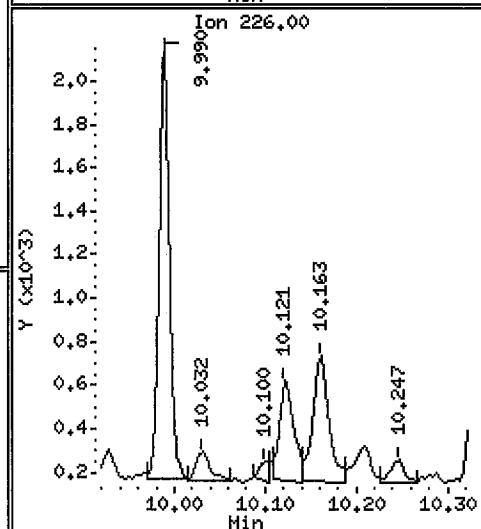
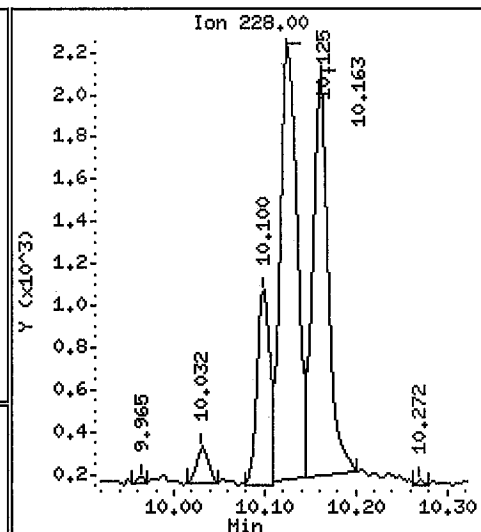
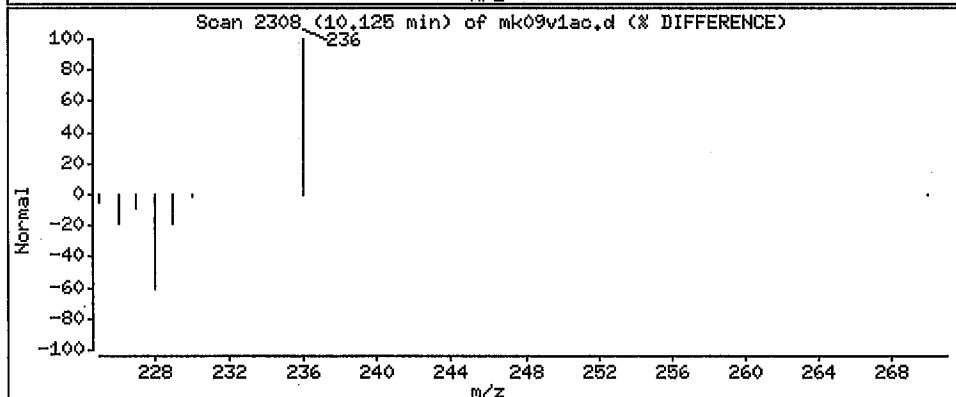
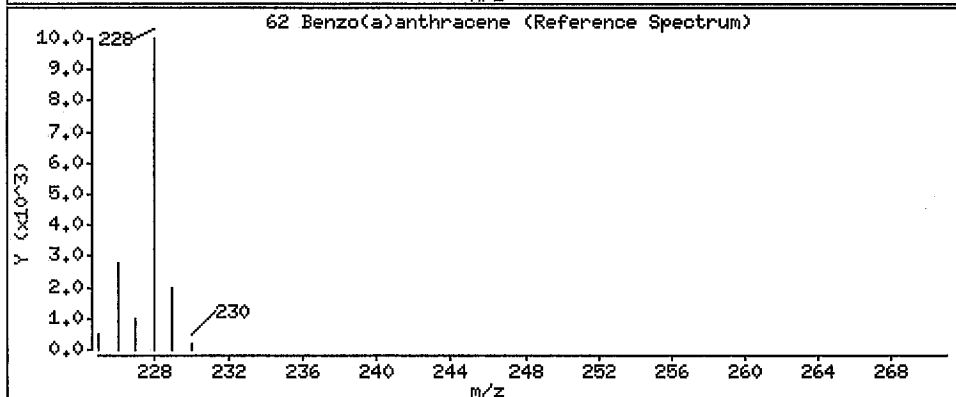
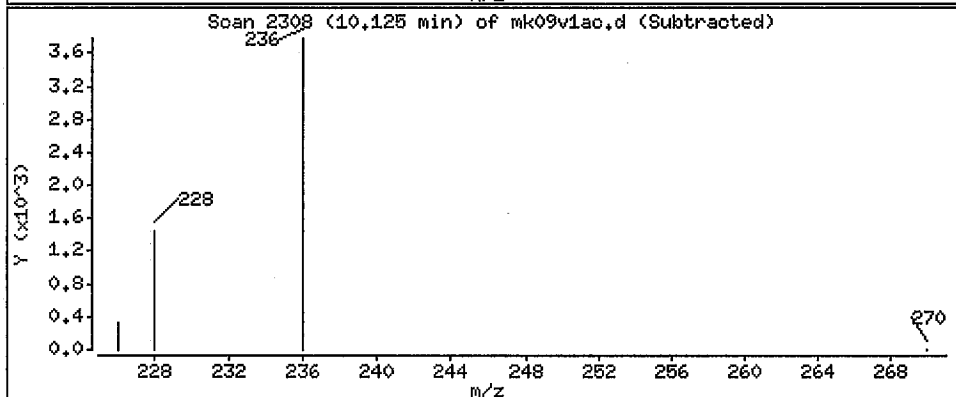
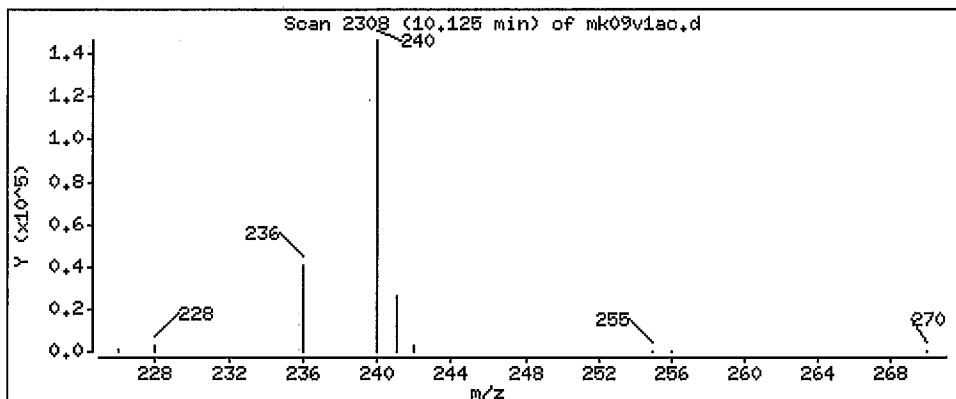
Operator: 60487

Column phase: Variant 5MS

Column diameter: 0.25

62 Benzo(a)anthracene

Concentration: 1.23 ng/sample



Data File: /var/chem/gcms/mp.i/P072911.b/mk09v1ao.d

Date : 29-JUL-2011 13:01

Client ID: A-6486,A-6487 MEDIA

Instrument: mp.i

Sample Info: ,,0,,,

Purge Volume: 1.0

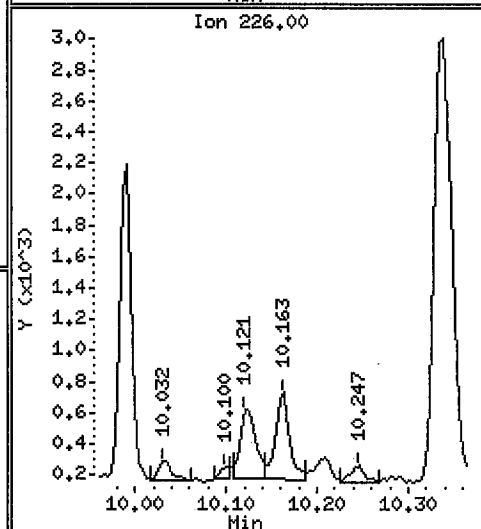
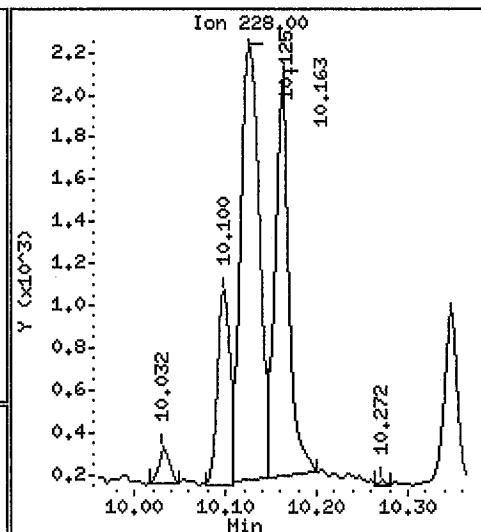
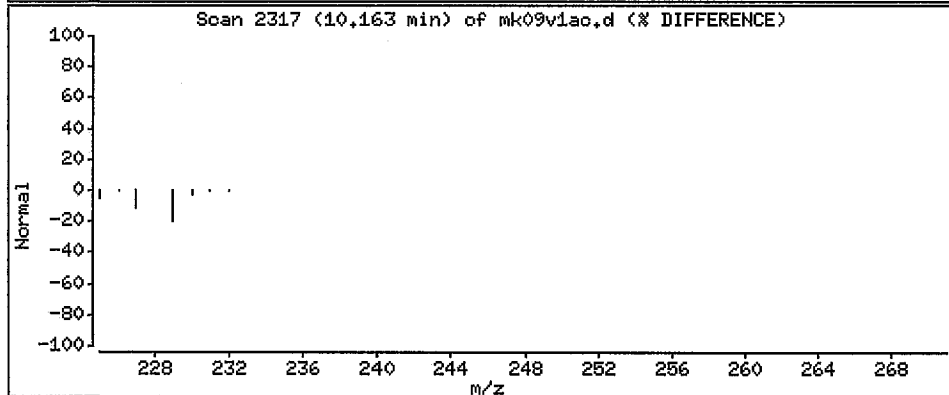
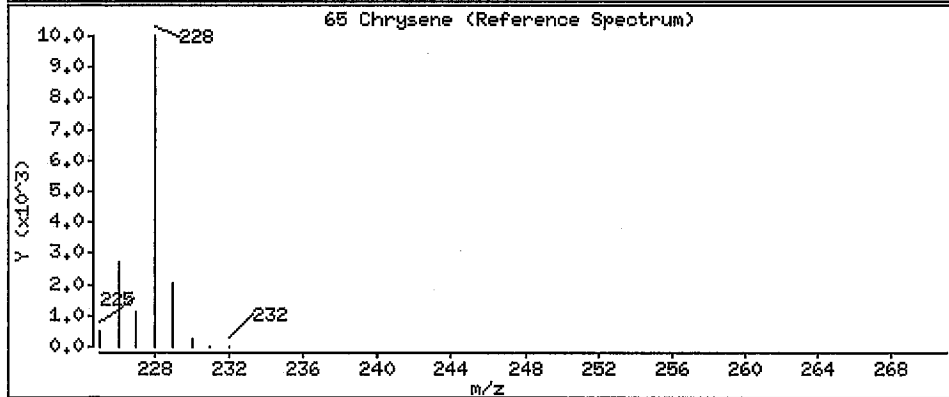
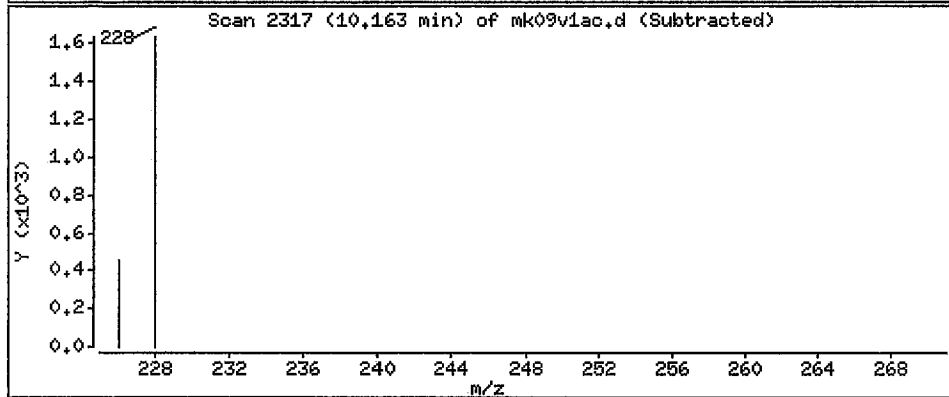
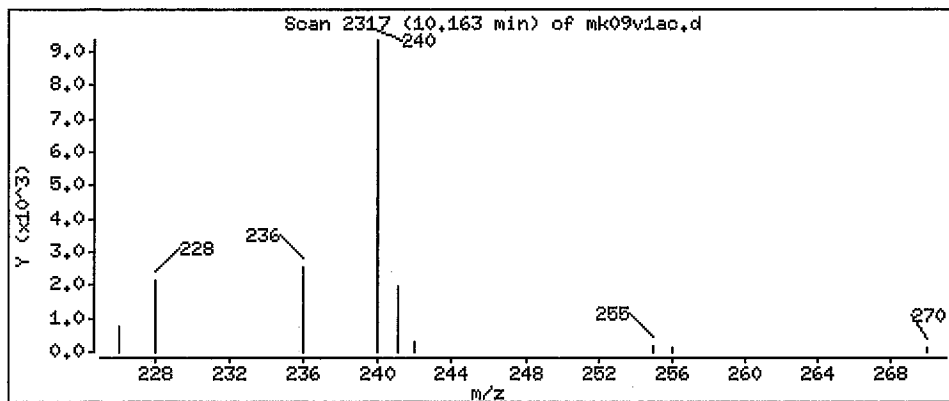
Operator: 11211

Column phase: Varian: 5MS

Column diameter: 0.25

65 Chrysene

Concentration: 2.50 ng/sample



Data File: /var/chem/gcms/mp.i/P072911.b/mk09v1ao.d

Date : 29-JUL-2011 13:01

Client ID: A-6486,A-6487 MEDIA

Instrument: mp.i

Sample Info: ,,0,,,

Purge Volume: 1.0

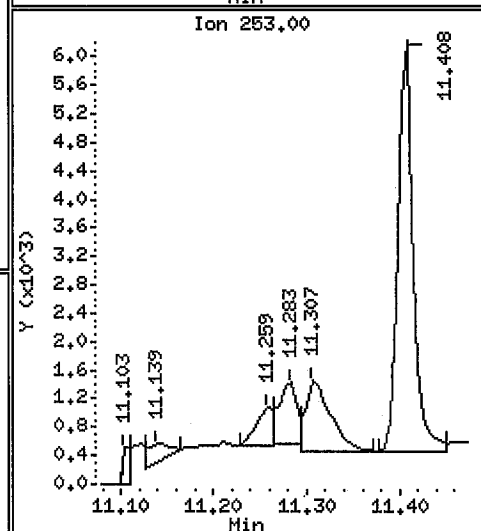
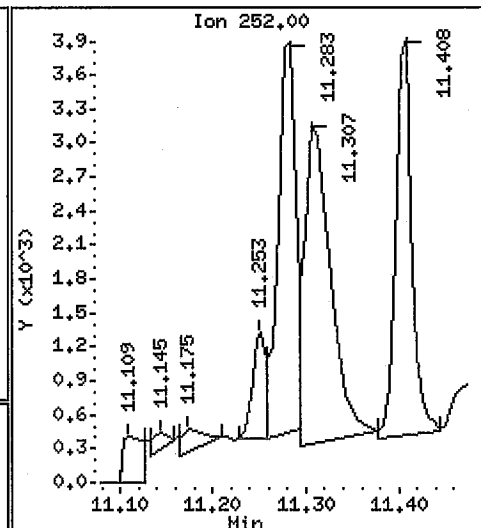
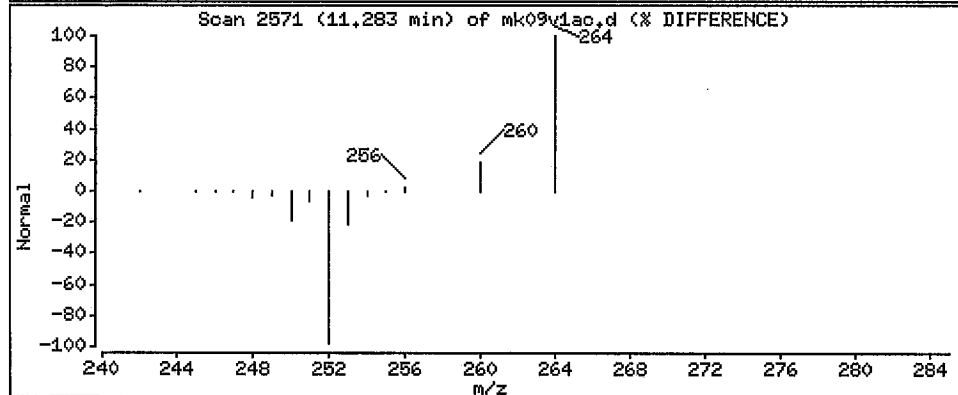
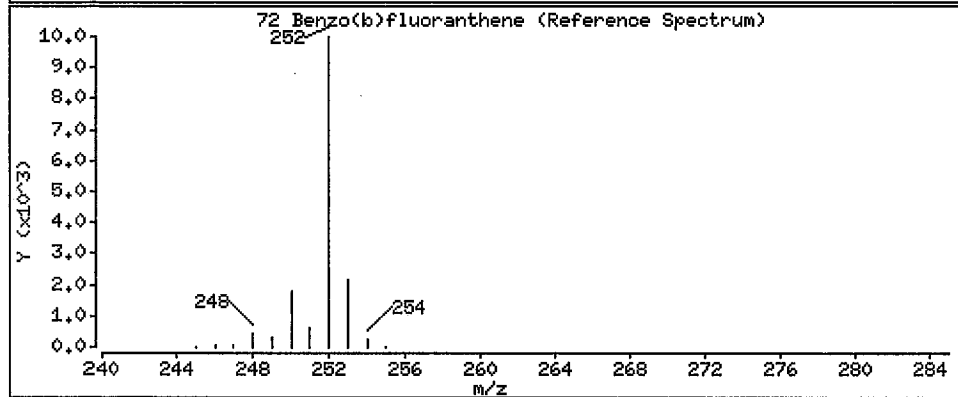
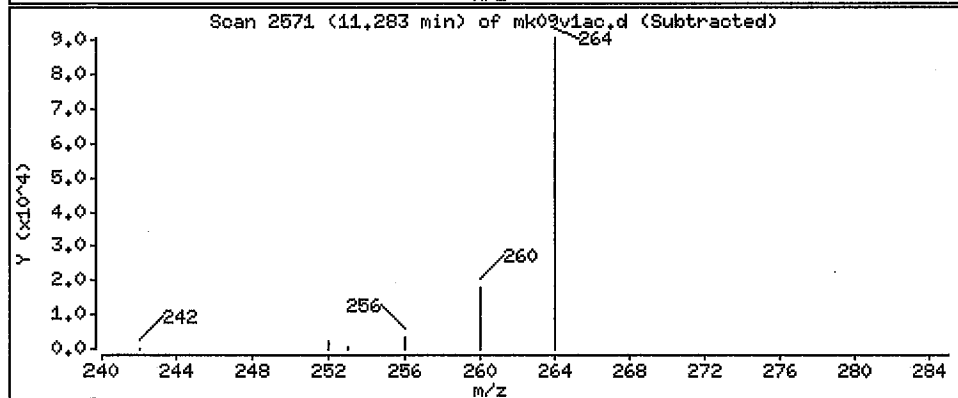
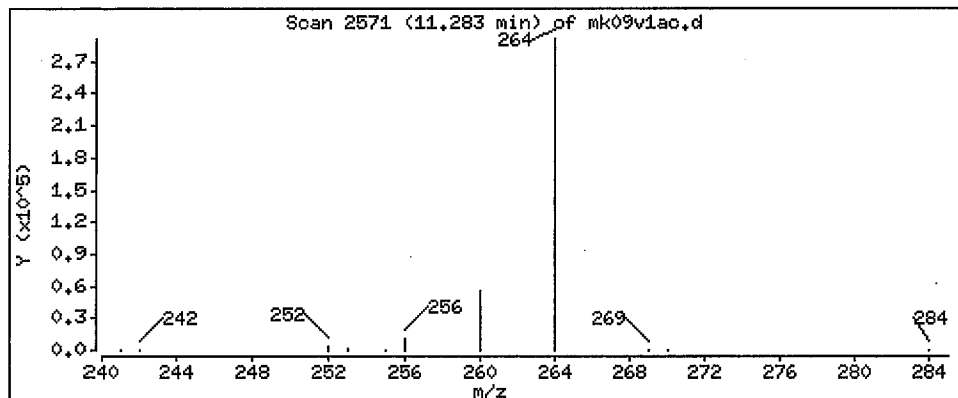
Operator: 11211

Column phase: Variant 5MS

Column diameter: 0.25

72 Benzo(b)fluoranthene

Concentration: 4.45 ng/sample



Data File: /var/chem/gcms/mp.i/P072911.b/mk09v1ao.d

Date : 29-JUL-2011 13:01

Client ID: A-6486,A-6487 MEDIA

Instrument: mp.i

Sample Info: ,,0,,,

Purge Volume: 1.0

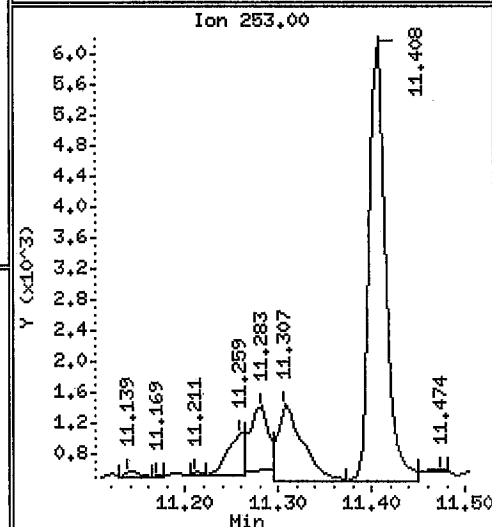
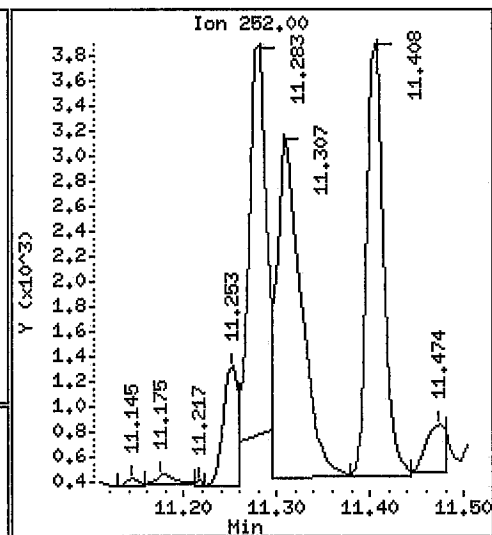
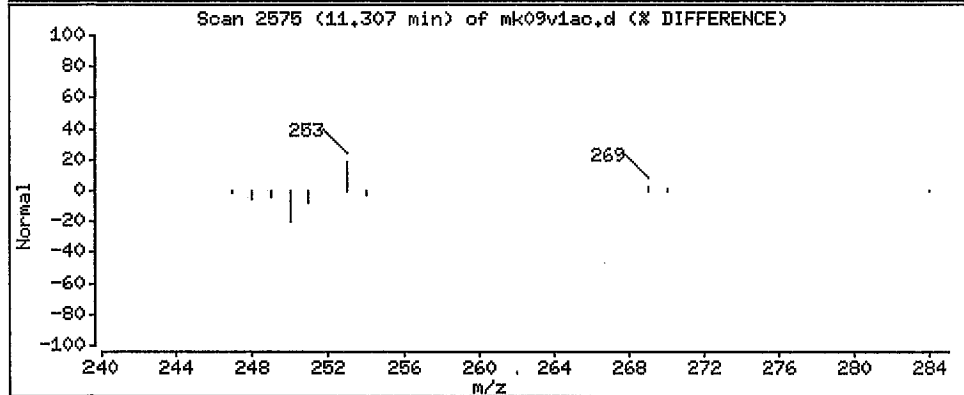
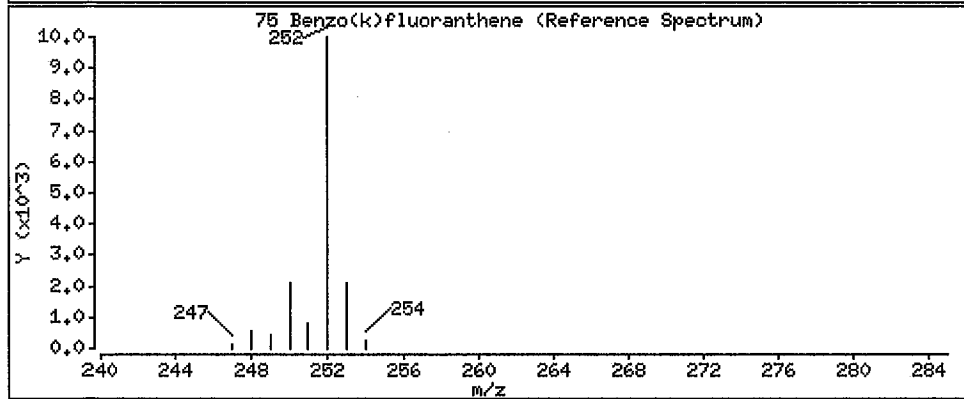
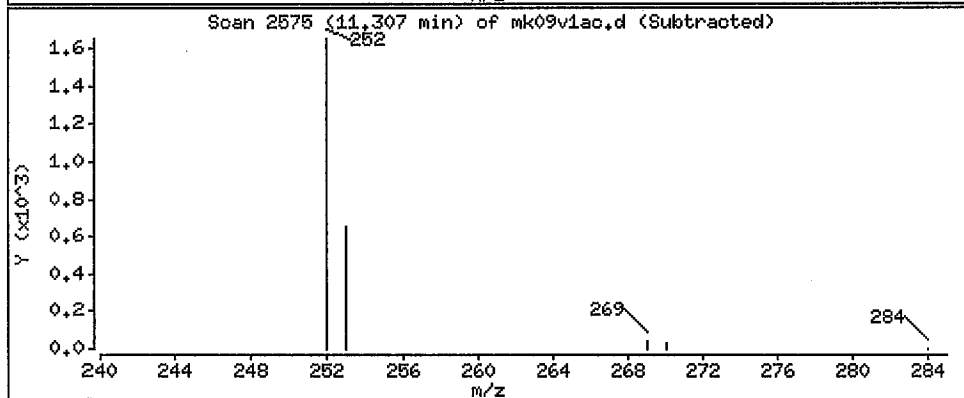
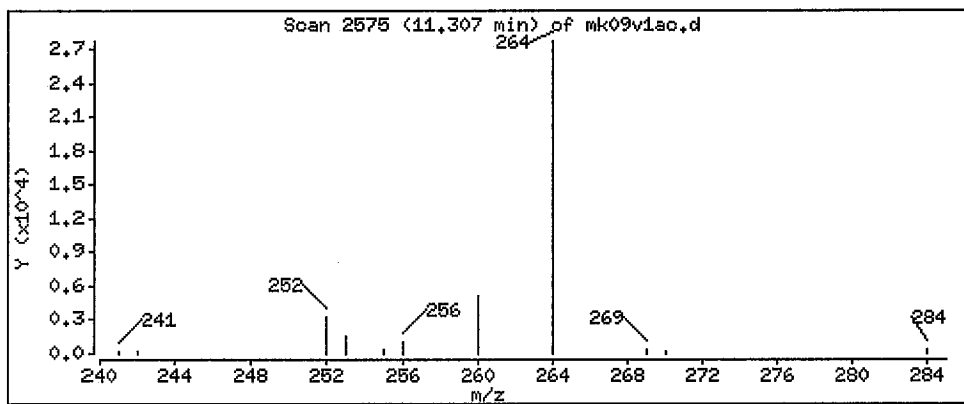
Operator: 11211

Column phase: Variant: 5MS

Column diameter: 0.25

75 Benzo(k)fluoranthene

Concentration: 6.52 ng/sample



Data File: /var/chem/gcms/mp.i/P072911.b/mk09v1ao.d

Date : 29-JUL-2011 13:01

Client ID: A-6486,A-6487 MEDIA

Instrument: mp.i

Sample Info: ,0,,

Purge Volume: 1.0

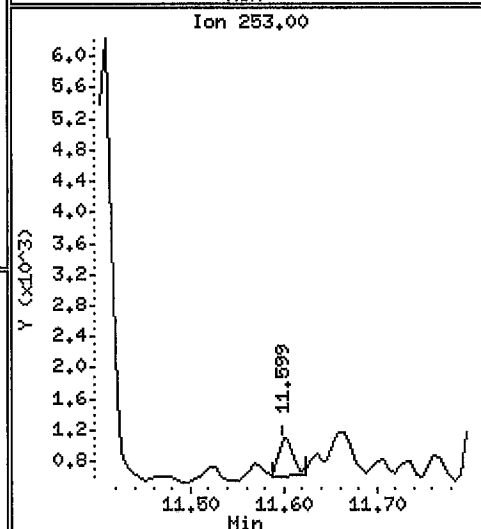
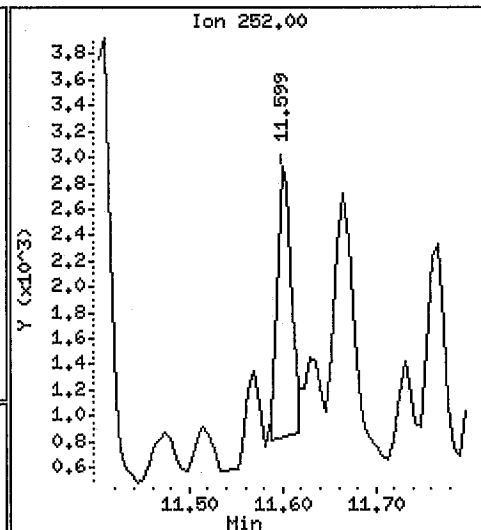
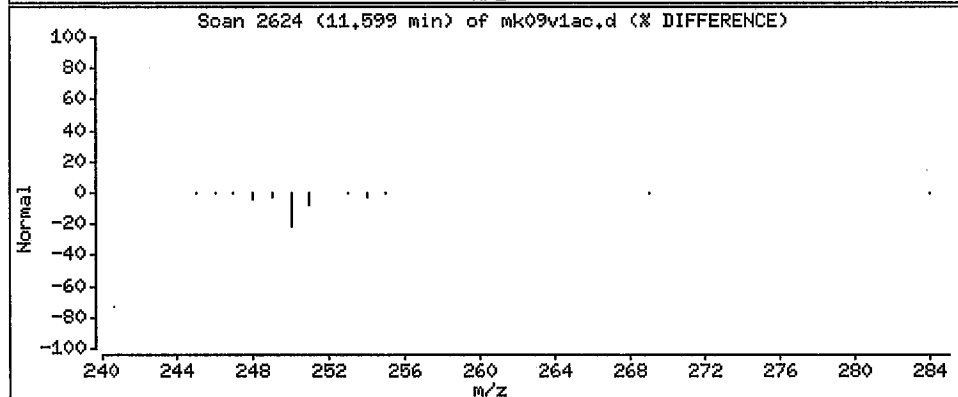
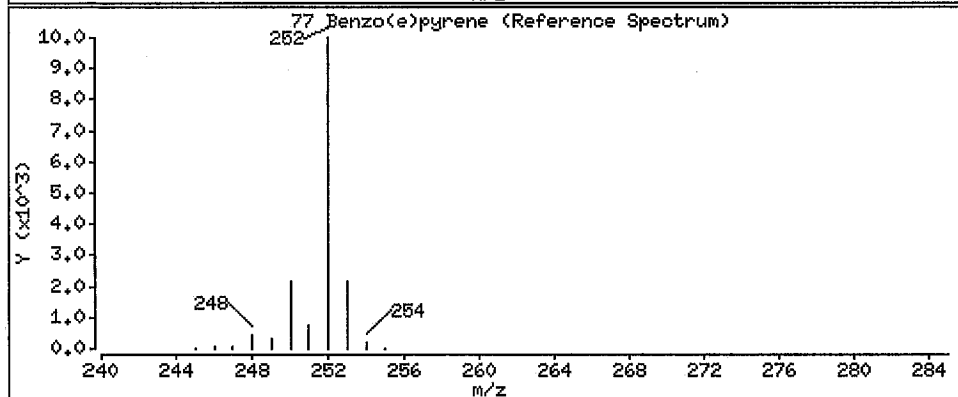
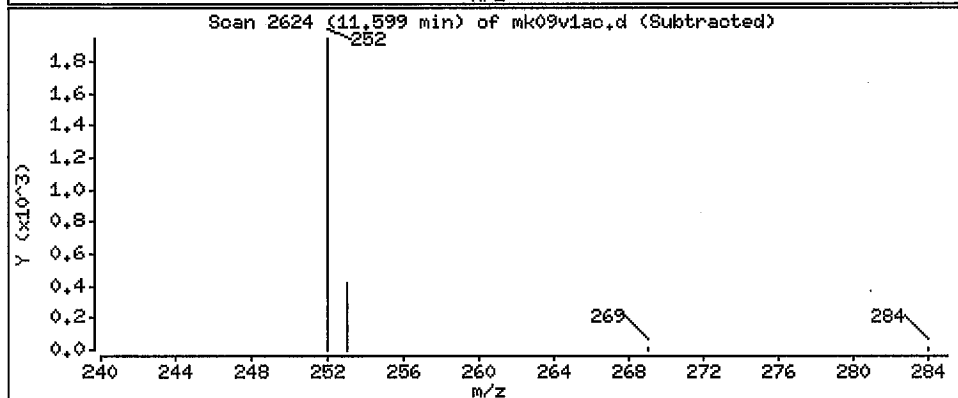
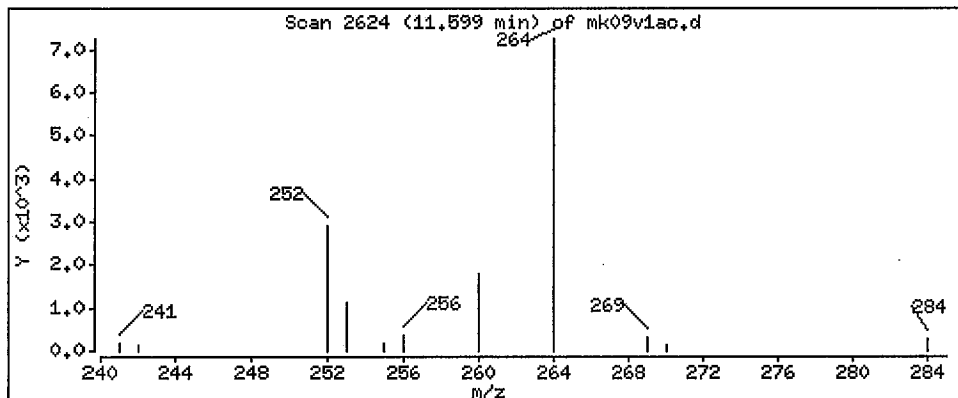
Operator: 11211

Column phase: Variant 5MS

Column diameter: 0.25

77 Benzo(e)pyrene

Concentration: 2.41 ng/sample



11/25/11
①

Data File: /var/chem/gcms/mp.i/P072911.b/mk09v1ao.d

Date : 29-JUL-2011 13:01

Client ID: A-6486,A-6487 MEDIA

Instrument: mp.i

Sample Info: ,,,0,,

Purge Volume: 1.0

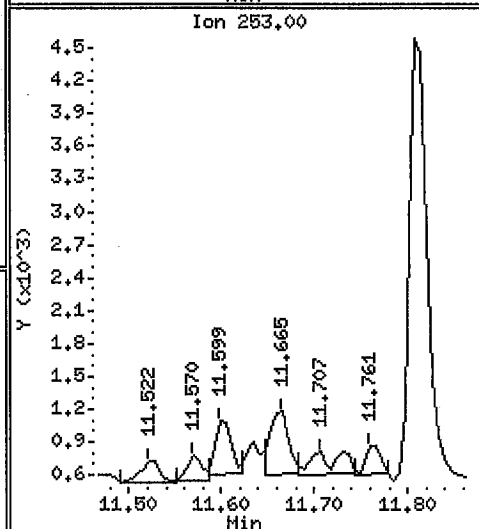
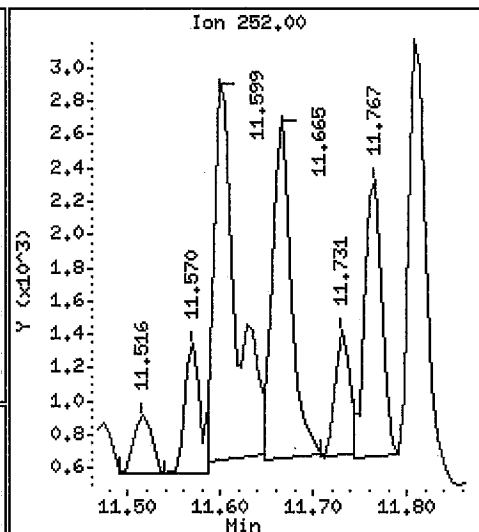
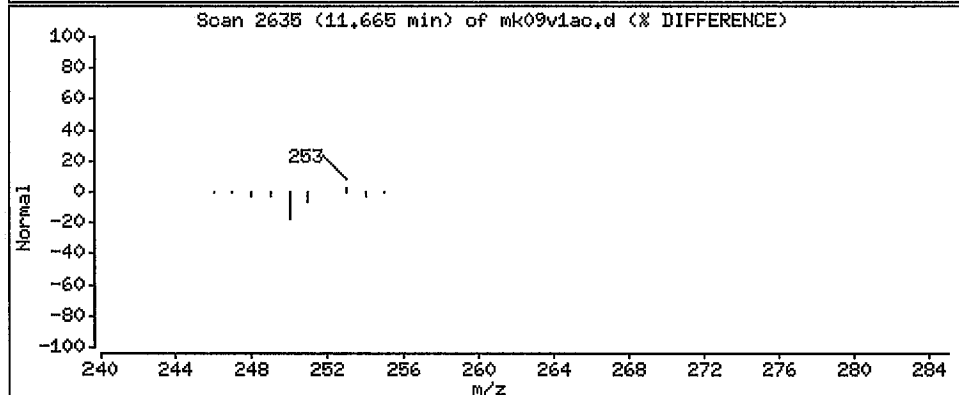
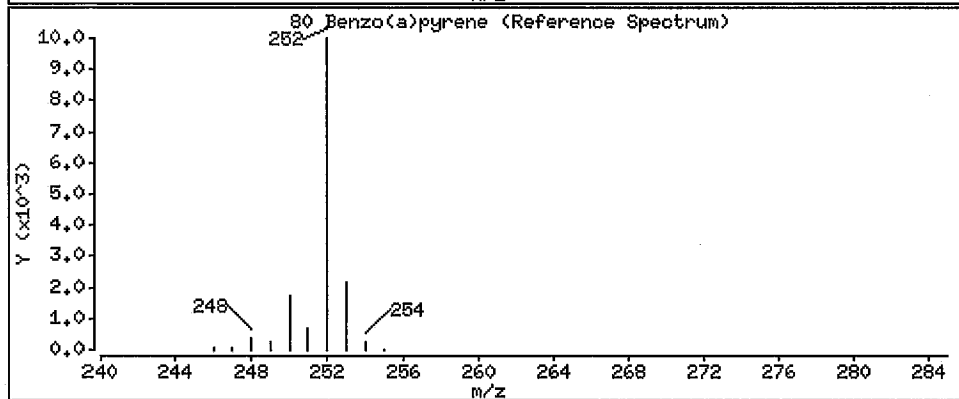
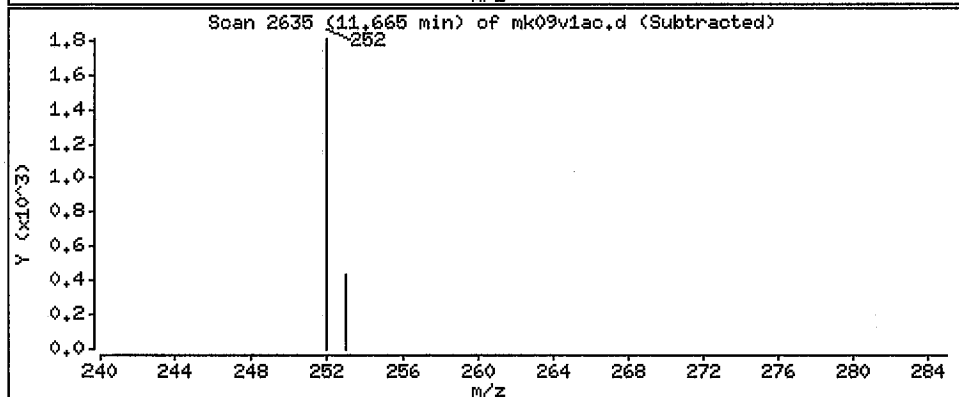
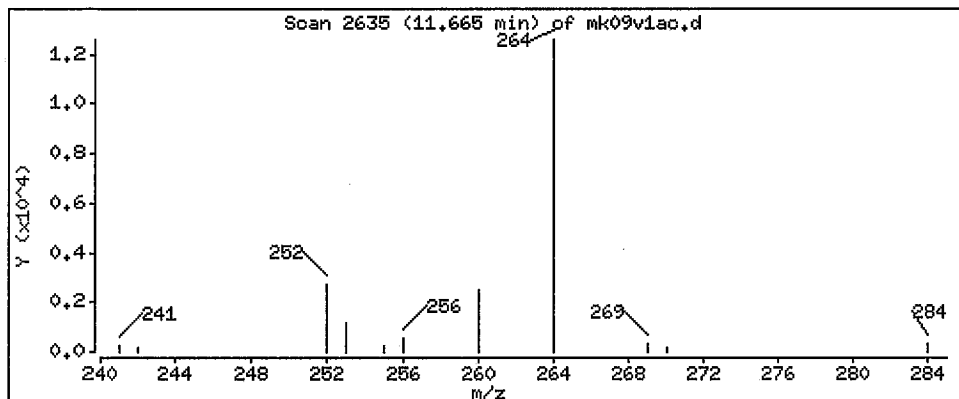
Operator: 11211

Column phase: Varian: 5MS

Column diameter: 0.25

80 Benzo(a)pyrene

Concentration: 3.70 ng/sample



Data File: /var/chem/gcms/mp.i/P072911.b/mk09v1ao.d

Date : 29-JUL-2011 13:01

Client ID: A-6486,A-6487 MEDIA

Instrument: mp.i

Sample Info: ,0,,,

Purge Volume: 1.0

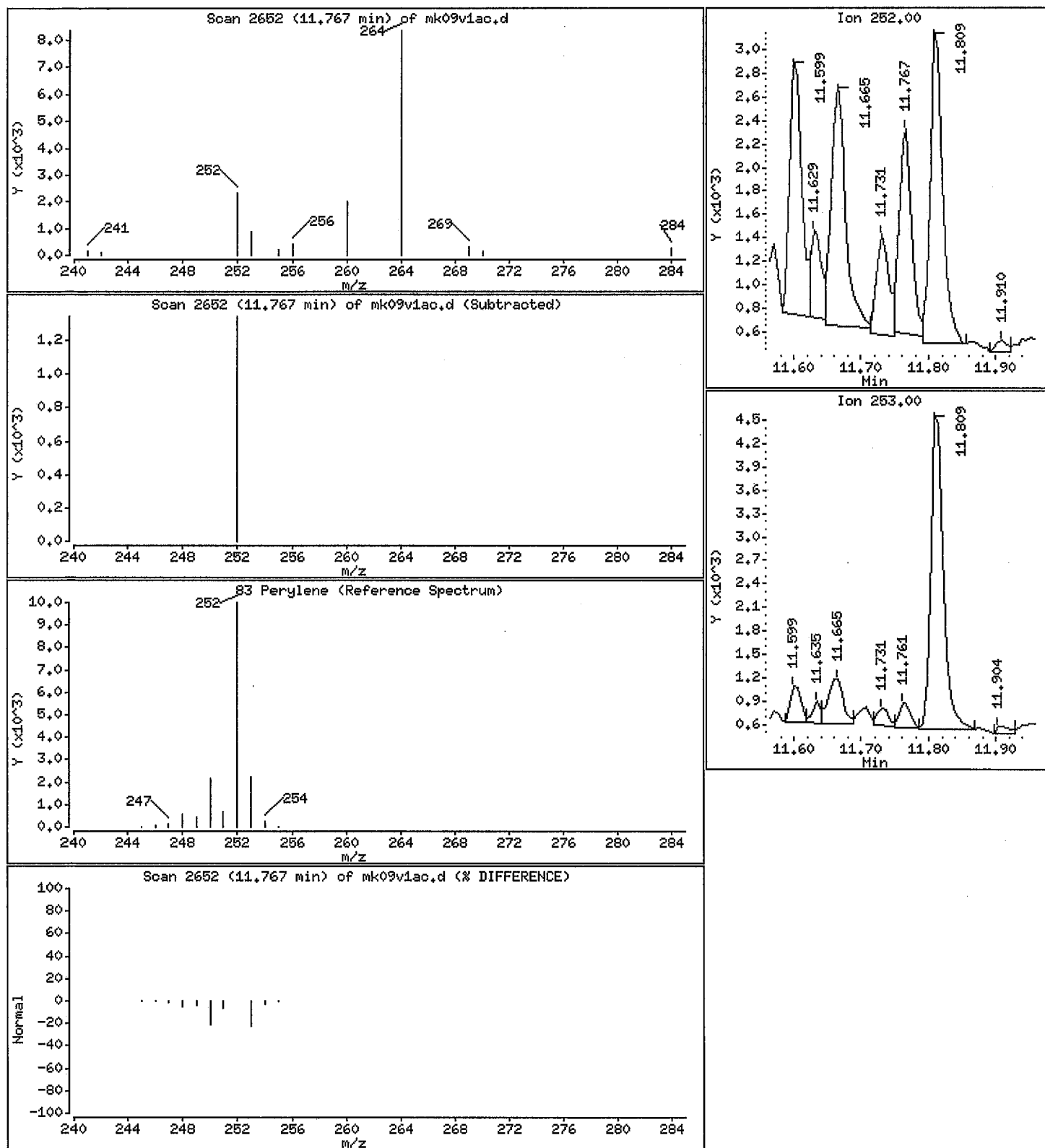
Operator: 11211

Column phase: Varian: 5MS

Column diameter: 0.25

83 Perylene

Concentration: 2.86 ng/sample



Data File: /var/chem/gcms/mp.i/P072911.b/mk09v1ac.d

Date : 29-JUL-2011 13:01

Client ID: A-6486,A-6487 MEDIA

Instrument: mp.i

Sample Info: ,,0,,,

Purge Volume: 1.0

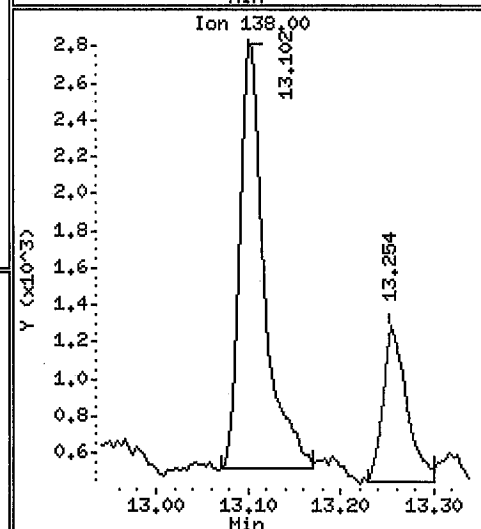
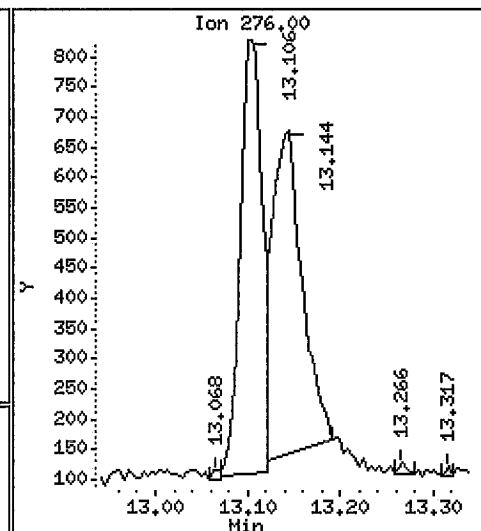
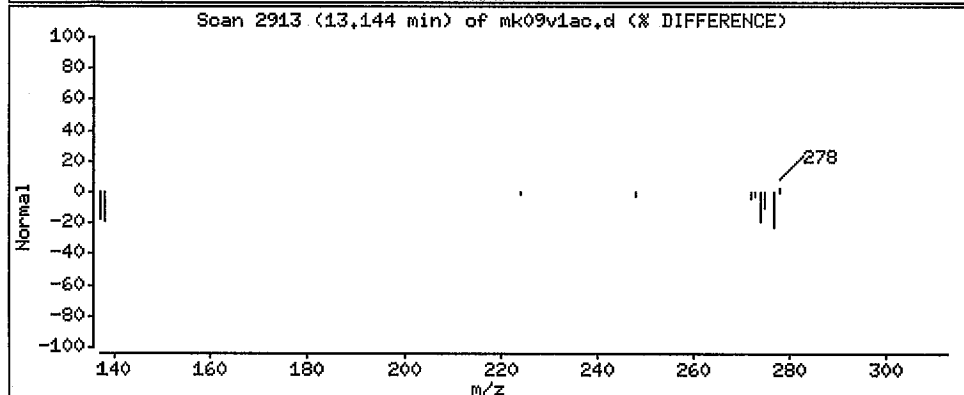
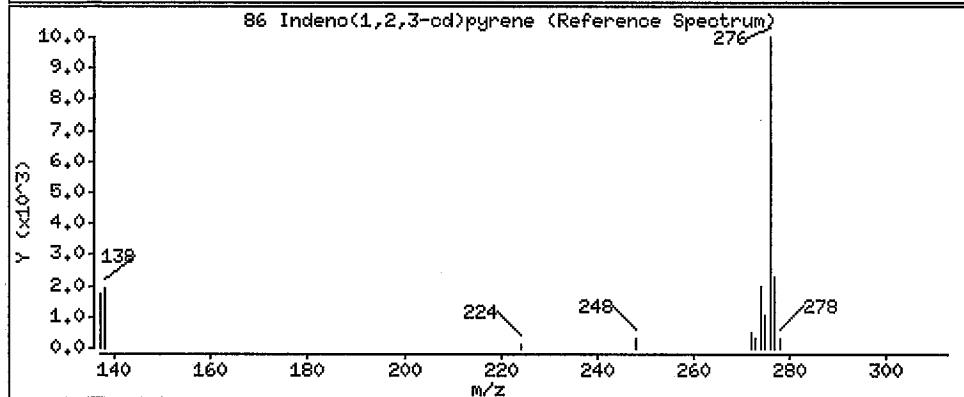
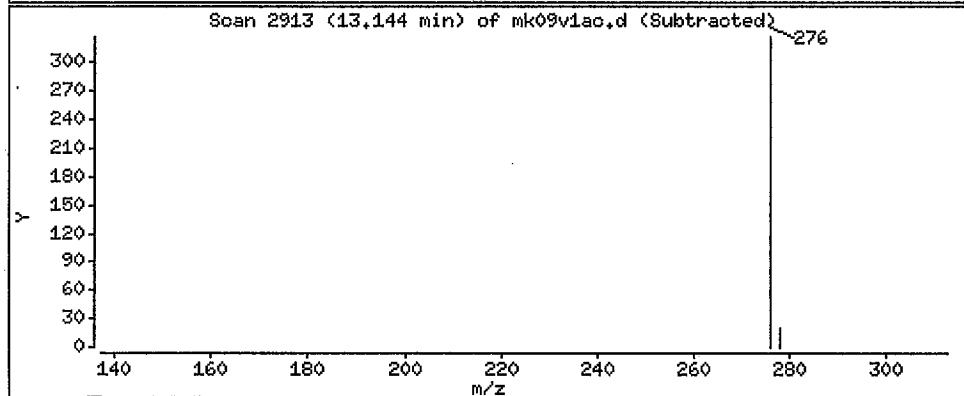
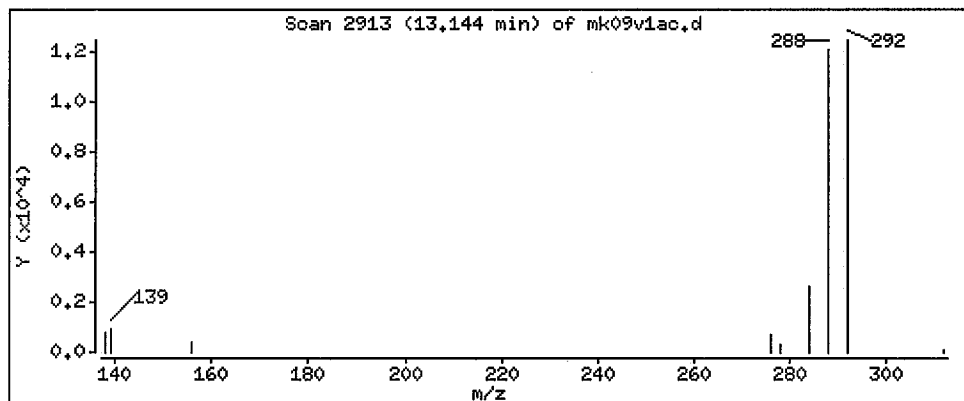
Operator: 11211

Column phase: Varian: 5MS

Column diameter: 0,25

86 Indeno(1,2,3-cd)pyrene

Concentration: 1,29 ng/sample



Data File: /var/chem/gcms/mp.i/P072911.b/mk09v1ac.d

Date : 29-JUL-2011 13:01

Client ID: A-6486,A-6487 MEDIA

Instrument: mp.i

Sample Info: ,,0,,,

Purge Volume: 1.0

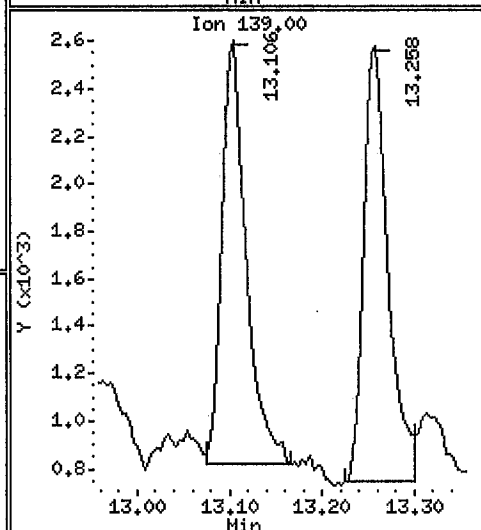
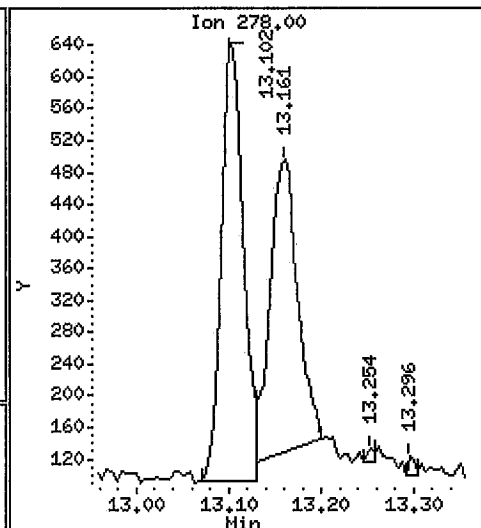
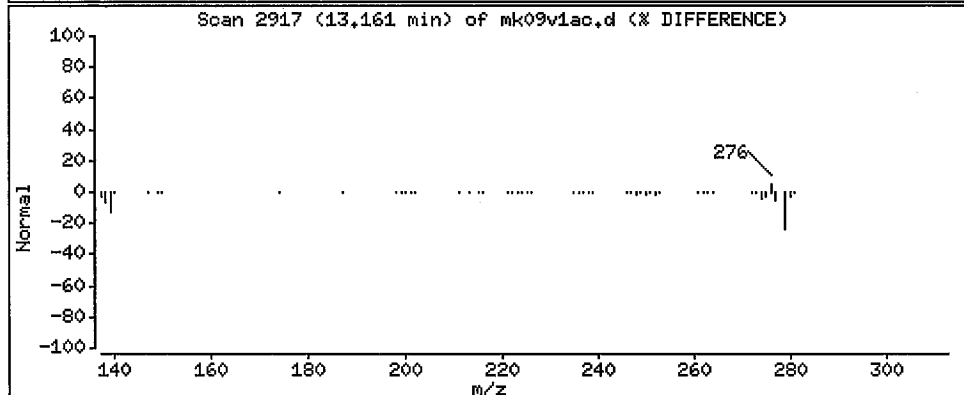
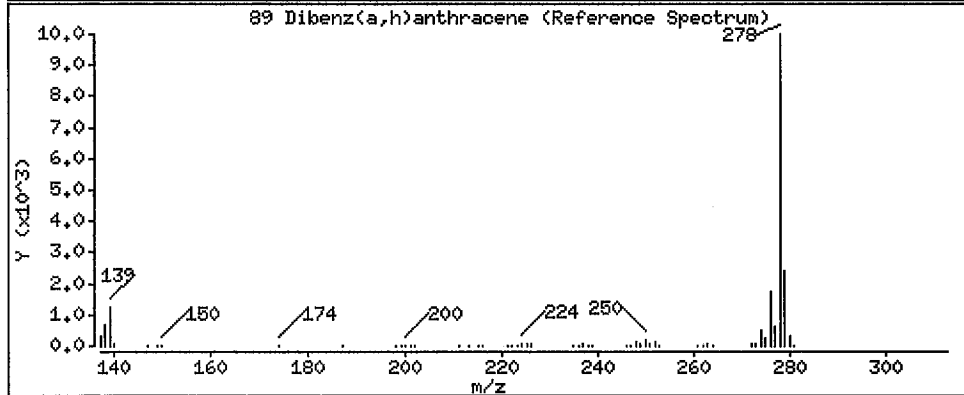
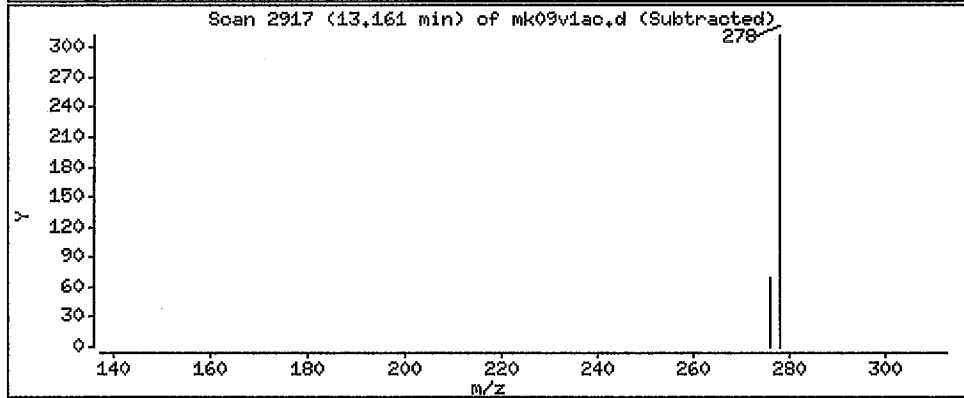
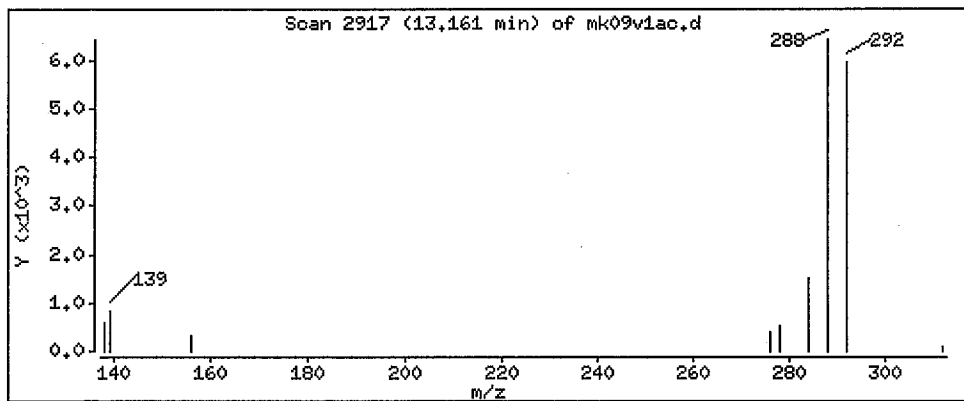
Operator: 11211

Column phase: Varian: 5MS

Column diameter: 0.25

89 Dibenz(a,h)anthracene

Concentration: 1.08 ng/sample



Data File: /var/chem/gcms/mp.i/P072911.b/mk09v1ao.d

Date : 29-JUL-2011 13:01

Client ID: A-6486,A-6487 MEDIA

Instrument: mp.i

Sample Info: ,,0,,,

Purge Volume: 1.0

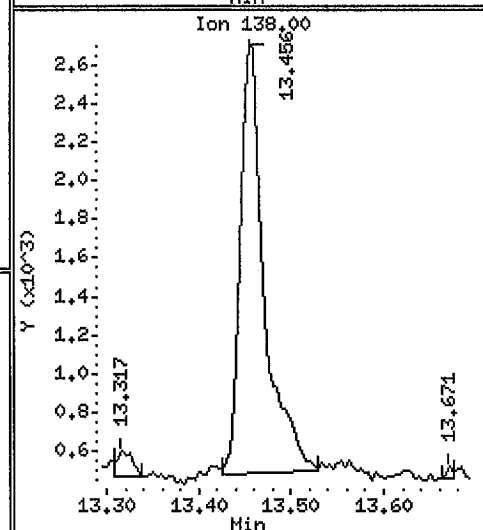
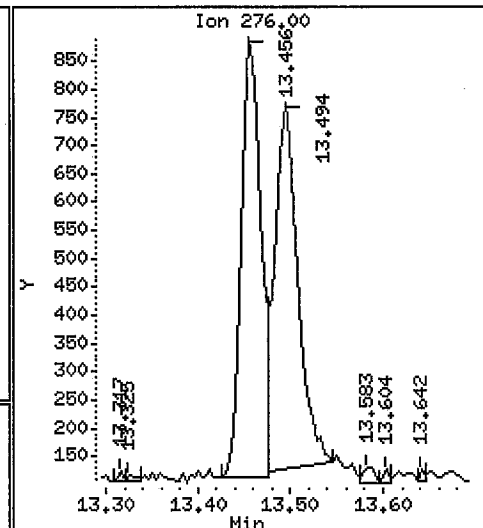
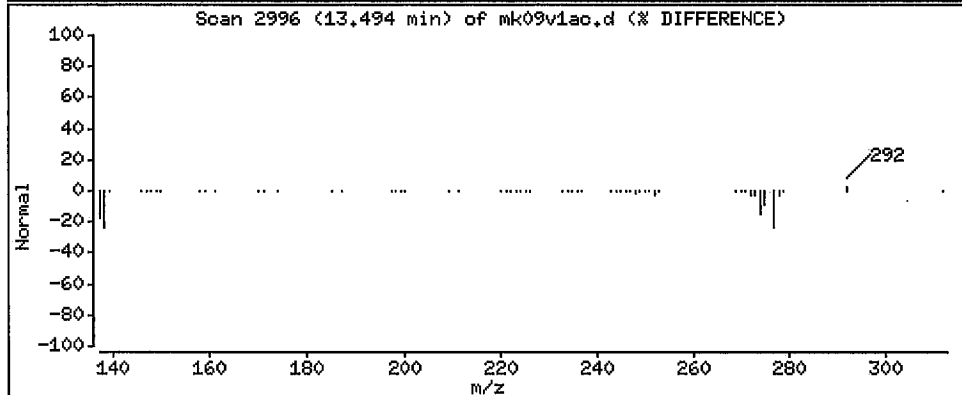
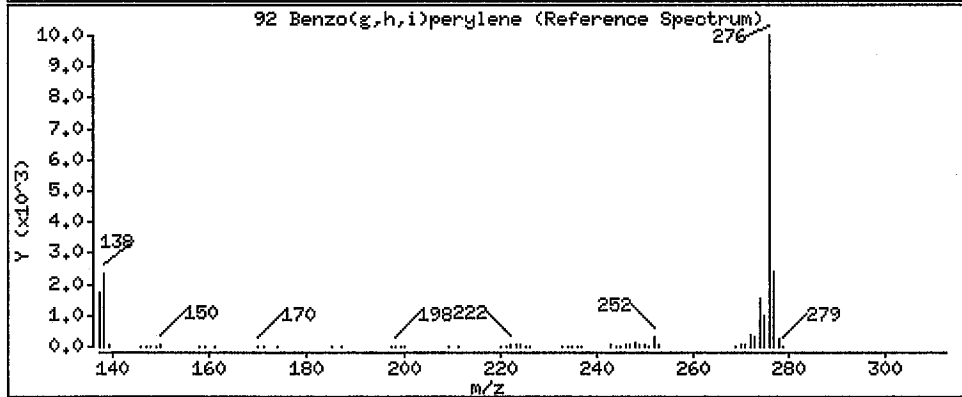
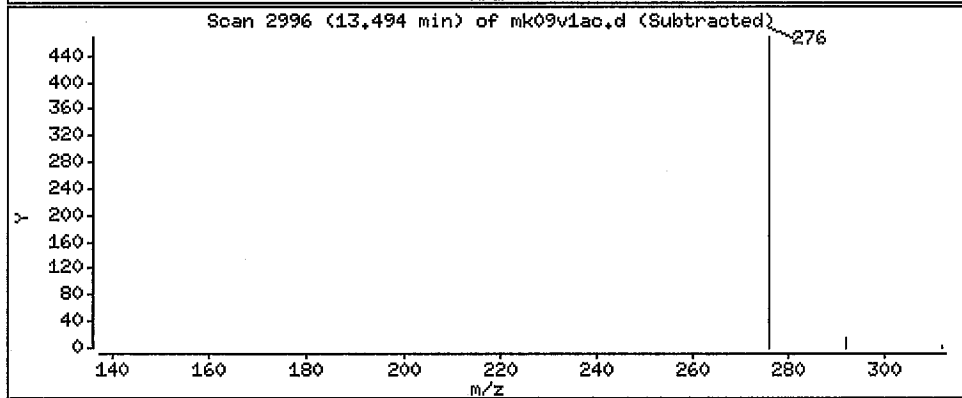
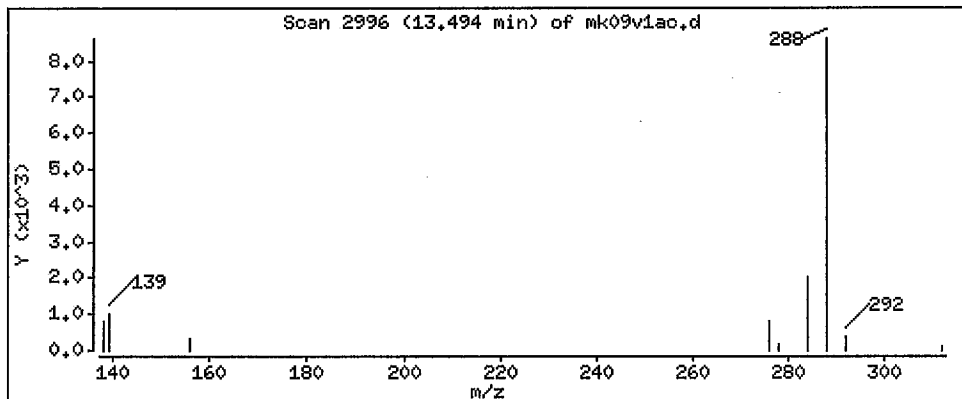
Operator: 11211

Column phase: Variant 5MS

Column diameter: 0.25

92 Benzo(g,h,i)perylene

Concentration: 1.52 ng/sample



Standards Data

TestAmerica Knoxville GC/MS-SIM Initial Calibration Data Review / Narrative Checklist
Method: PAHs and Selected SVOCs - KNOX-ID-0016, Revision 8

Analysis Date: <u>7/26/11</u>	Instrument: <u>MP</u>	ICAL Batch/Scan Name: <u>P072611 I</u>	Scanned <input checked="" type="checkbox"/>
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A. Review Items	N/A	Yes	No	Why is data reportable?	2nd ✓
1. Were all standards injected within 12 hr of first calibration standard?		✓			✓
2. Was date/time of analysis verified between header and logbook?		✓			✓
3. Are peak integrations appropriate?		✓			✓
4. Were ≥ 5 levels of each analyte/IS analyzed?		✓			✓
5. Was the high point standard checked for saturation?		✓			✓
6. Was low level standard at or below RL?		✓			✓
7. Are all %RSD $\leq 30\%$?		✓			✓
8. Are the MID descriptors properly set?		✓			✓
9. Are correct RFs listed in ICAL summary?		✓			✓
10. Was ICAL summary form processed using the correct method?		✓			✓
11. Are the ICAL start and end dates/times correct on ICAL summary?		✓			✓
12. Elution order checked on isomeric pairs?					
• 2-methylnaphthalene before 1-methylnaphthalene (& d10 isomers)		✓			✓
• acenaphthylene before acenaphthene (& d10 isomers)		✓			✓
• dibenzothiophene before anthracene		✓			✓
• phenanthrene before anthracene (& d10 isomers)		✓			✓
• fluoranthene before pyrene (& d10 isomers)		✓			✓
• benzo(a)anthracene before chrysene (& d12 isomers)		✓			✓
• benzo(b)fluoranthene before benzo(k)fluoranthene (& d12 isomers)		✓			✓
• benzo(e)pyrene before benzo(a)pyrene		✓			✓
• benzo(a)pyrene before perylene (& d12 isomers)		✓			✓
• Indeno(1,2,3-cd)pyrene before benzo(g,h,i)perylene (& d12 isomers)		✓			✓
13. Is the 2 nd source ICV with +/- 30% of the expected value?		✓			✓
14. Are the Alkyl RFs correct (i.e., same as the parent RF)?		✓			✓
15. If criteria were not met, was a NCM generated and approved by supervisor?	✓				<i>nm</i>
16. Does the ICAL folder contain complete data in the following order? ICAL data review checklist, runlog, Target Initial Calibration Report, followed by the quan report and chromatograms for all calibration and 2 nd source standards.		✓			✓

1 st Level Reviewer: <u><i>[Signature]</i></u>	Date: <u>7/27/11</u>
Comments: <u>DETPP required for Passate only</u>	
2nd Level Reviewer: <u><i>[Signature]</i></u>	Date: <u>0729/11</u>
Comments:	

Data File: /var/chem/gcms/mp,i/P072611I,b/pg26dftpp,d

Date : 26-JUL-2011 17:05

Client ID: Tune

Instrument: mp,i

Sample Info: PG26DFTPP,,3,,PAH0363

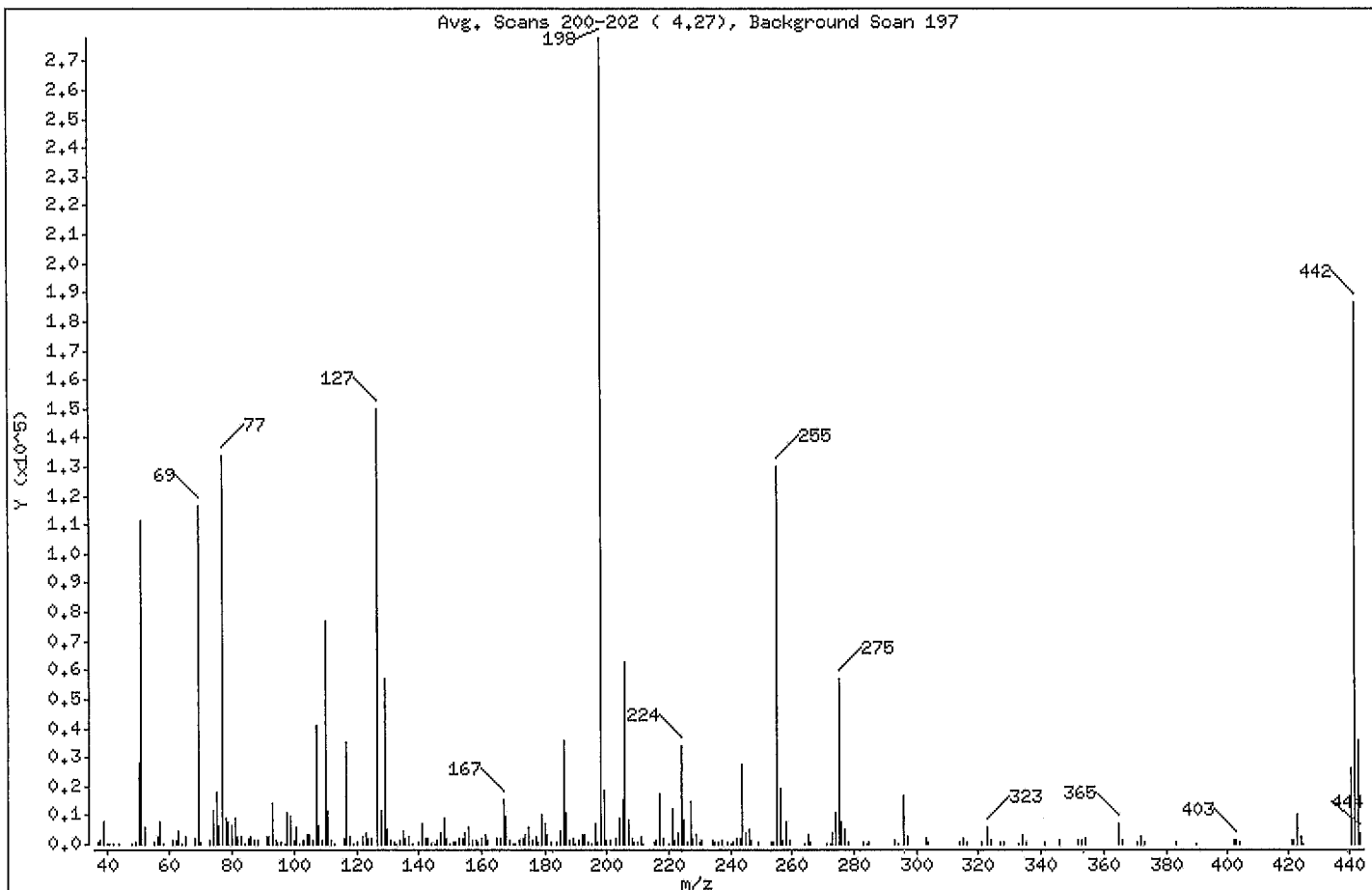
Operator: 11211

Column phase: XTI-5

Column diameter: 0.25

1 dftpp

Avg. Scans 200-202 (4.27), Background Scan 197



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	30.00 - 80.00% of mass 198	40.16
68	Less than 2.00% of mass 69	0.61 (1.45)
69	Mass 69 relative abundance	41.97
70	Less than 2.00% of mass 69	0.17 (0.41)
127	25.00 - 75.00% of mass 198	53.82
197	Less than 1.00% of mass 198	0.30
199	5.00 - 9.00% of mass 198	6.76
275	10.00 - 30.00% of mass 198	20.60
365	Greater than 0.75% of mass 198	2.63
441	Present, but less than mass 443	9.41
442	40.00 - 110.00% of mass 198	67.08
443	15.00 - 24.00% of mass 442	12.82 (19.12)

Data File: /var/chem/goms/mp,i/P072611I,b/pg26dftpp,d

Date : 26-JUL-2011 17:05

Client ID: Tune

Instrument: mp,i

Sample Info: PG26DFTPP,,3,,PAH0363

Operator: 11211

Column phase: XTI-5

Column diameter: 0.25

Data File: pg26dftpp,d

Spectrum: Avg. Scans 200-202 (4,27), Background Scan 197

Location of Maximum: 198.00

Number of points: 245

m/z	Y	m/z	Y	m/z	Y	m/z	Y

37.00	779	113.00	229	182.00	421	256.00	18960
38.00	1438	116.00	2172	184.00	530	257.00	1569
39.00	7412	117.00	35096	185.00	4558	258.00	7708
40.00	282	118.00	2764	186.00	36136	259.00	1016
41.00	160	119.00	177	187.00	10623	264.00	161

42.00	61	120.00	459	188.00	1141	265.00	3135
44.00	156	122.00	2718	189.00	2008	266.00	494
48.00	42	123.00	3925	190.00	197	271.00	173
49.00	380	124.00	1928	191.00	1118	272.00	178
50.00	28240	125.00	1693	192.00	3482	273.00	3963

51.00	111632	127.00	149568	193.00	3399	274.00	10982
52.00	5938	128.00	11215	194.00	815	275.00	57248
55.00	876	129.00	56984	195.00	173	276.00	7830
56.00	2879	130.00	4989	196.00	7114	277.00	5085
57.00	7670	131.00	991	197.00	835	278.00	831

58.00	179	132.00	640	198.00	277952	283.00	461
61.00	1564	133.00	169	199.00	18792	284.00	190
62.00	1502	134.00	1450	200.00	1506	285.00	748
63.00	4397	135.00	4700	201.00	1231	293.00	1011
64.00	304	136.00	1724	203.00	1881	294.00	190

65.00	2504	137.00	2687	204.00	9070	296.00	16832
68.00	1691	138.00	251	205.00	15507	297.00	2320
69.00	116656	140.00	522	206.00	62664	303.00	1860
70.00	478	141.00	7004	207.00	8161	304.00	432
73.00	1124	142.00	2220	208.00	2143	314.00	746

74.00	11234	143.00	1699	209.00	606	315.00	1862
75.00	18040	144.00	201	210.00	517	316.00	876
76.00	6287	145.00	232	211.00	2322	321.00	407
77.00	133824	146.00	1137	212.00	299	323.00	5505
78.00	9237	147.00	3779	215.00	532	324.00	973

79.00	7987	148.00	8734	216.00	1359	327.00	946
80.00	6209	149.00	1935	217.00	17232	328.00	470
81.00	8646	150.00	305	218.00	2229	333.00	274
82.00	2372	151.00	888	220.00	214	334.00	3436
83.00	2492	152.00	341	221.00	12455	335.00	667

Data File: /var/chem/gcms/mp,i/P072611I,b/pg26dftpp,d

Date : 26-JUL-2011 17:05

Client ID: Tune

Instrument: mp,i

Sample Info: PG26DFTPP,,3,,PAH0363

Operator: 11211

Column phase: XTI-5

Column diameter: 0,25

Data File: pg26dftpp,d

Spectrum: Avg. Scans 200-202 (4,27), Background Scan 197

Location of Maximum: 198,00

Number of points: 245

m/z	Y	m/z	Y	m/z	Y	m/z	Y

| 84,00	19	| 153,00	2226	| 222,00	1326	| 341,00	560
| 85,00	1776	| 154,00	1629	| 223,00	3545	| 346,00	1162
| 86,00	2478	| 155,00	3830	| 224,00	33720	| 352,00	1338
| 87,00	1321	| 156,00	5750	| 225,00	8356	| 353,00	1007
| 88,00	1101	| 157,00	1075	| 226,00	713	| 354,00	1688

| 91,00	2299	| 158,00	1280	| 227,00	14782	| 365,00	7308
| 92,00	2408	| 159,00	936	| 228,00	2169	| 366,00	1069
| 93,00	14319	| 160,00	2231	| 229,00	2921	| 371,00	373
| 94,00	1017	| 161,00	3458	| 230,00	476	| 372,00	2856
| 95,00	443	| 162,00	1003	| 231,00	1235	| 373,00	669

| 96,00	887	| 165,00	2140	| 234,00	993	| 383,00	741
| 97,00	195	| 166,00	2049	| 235,00	774	| 390,00	209
| 98,00	11105	| 167,00	15288	| 236,00	572	| 402,00	1070
| 99,00	9782	| 168,00	9529	| 237,00	1332	| 403,00	1427
| 100,00	1010	| 169,00	1338	| 239,00	532	| 404,00	497

| 101,00	5536	| 170,00	311	| 240,00	252	| 421,00	1324
| 102,00	187	| 171,00	301	| 241,00	631	| 422,00	1147
| 103,00	1590	| 172,00	1325	| 242,00	1884	| 423,00	9965
| 104,00	3335	| 173,00	1635	| 243,00	1752	| 424,00	2584
| 105,00	3095	| 174,00	2910	| 244,00	27312	| 425,00	185

| 106,00	1138	| 175,00	5473	| 245,00	3748	| 441,00	26160
| 107,00	41024	| 176,00	1499	| 246,00	5088	| 442,00	186432
| 108,00	6499	| 177,00	2263	| 247,00	1065	| 443,00	35640
| 109,00	973	| 178,00	915	| 249,00	860	| 444,00	3536
| 110,00	77152	| 179,00	10245	| 253,00	595		

| 111,00	11755	| 180,00	7260	| 254,00	678		
| 112,00	1472	| 181,00	3357	| 255,00	130152		

Data File: /var/chem/goms/mp,i/P072611I,b/pg26dftpp,d

Date : 26-JUL-2011 17:05

Client ID: Tune

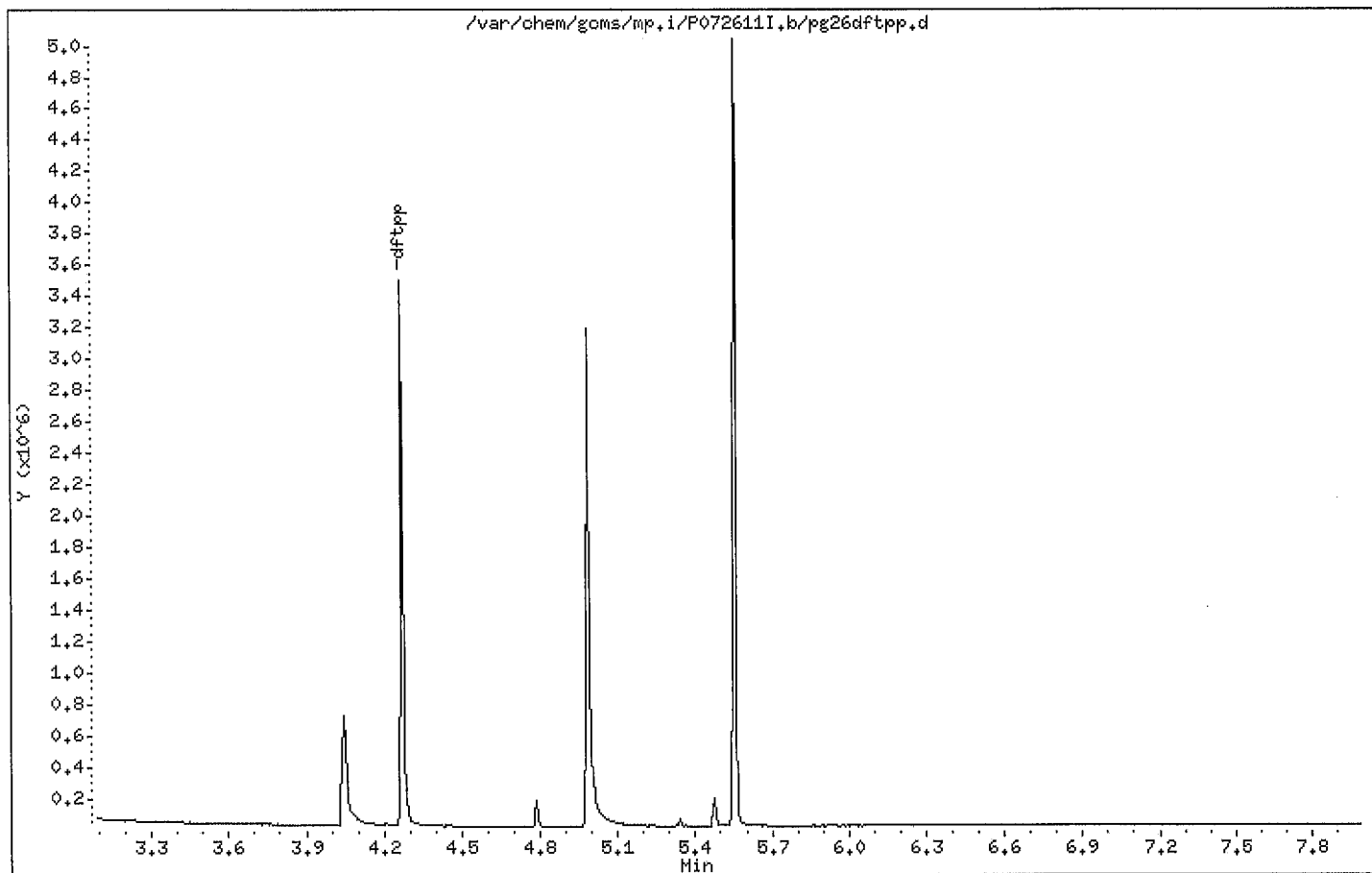
Instrument: mp,i

Sample Info: PG26DFTPP,,3,,PAH0363

Operator: 11211

Column phase: XTI-5

Column diameter: 0,25



Report Date : 27-Jul-2011 16:19

TestAmerica Knoxville

INITIAL CALIBRATION DATA

Start Cal Date : 26-JUL-2011 17:47 ✓
 End Cal Date : 26-JUL-2011 20:15
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : HP RTE
 Method file : /var/chem/gcms/mp.i/P072611I.b/SIMPAH3.m
 Cal Date : 27-Jul-2011 16:12 wilesd
 Curve Type : Average

Calibration File Names:

Level 1: /var/chem/gcms/mp.i/P072611I.b/pg26ic01.d
 Level 2: /var/chem/gcms/mp.i/P072611I.b/pg26ic02.d
 Level 3: /var/chem/gcms/mp.i/P072611I.b/pg26ic03.d
 Level 4: /var/chem/gcms/mp.i/P072611I.b/pg26ic04.d
 Level 5: /var/chem/gcms/mp.i/P072611I.b/pg26ic05.d
 Level 6: /var/chem/gcms/mp.i/P072611I.b/pg26ic06.d
 Level 7: /var/chem/gcms/mp.i/P072611I.b/pg26ic07.d

Compound	0.02000 Level 1	0.10000 Level 2	0.25000 Level 3	0.50000 Level 4	1.000 Level 5	2.500 Level 6	RRF	% RSD
	5.000 Level 7							
3 Naphthalene	0.78860 0.81802	0.86813	0.88390	0.86969	0.86561	0.84588	0.84855	3.998
4 C2-Naphthalenes	++++ ++++	++++	++++	++++	++++	++++	0.84855	++++
5 C3-Naphthalenes(a)	++++ ++++	++++	++++	++++	++++	++++	0.84855	++++
6 C3-Naphthalenes(b)	++++ ++++	++++	++++	++++	++++	++++	0.84855	++++
7 C3-Naphthalenes(c)	++++ ++++	++++	++++	++++	++++	++++	0.84855	++++
M 8 C3-Naphthalenes(total)	++++ ++++	++++	++++	++++	++++	++++	0.84855	++++

Report Date : 27-Jul-2011 16:19

TestAmerica Knoxville

INITIAL CALIBRATION DATA

Start Cal Date : 26-JUL-2011 17:47
 End Cal Date : 26-JUL-2011 20:15
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : HP RTE
 Method file : /var/chem/gcms/mp.i/P072611I.b/SIMPAH3.m
 Cal Date : 27-Jul-2011 16:12 wilesd
 Curve Type : Average

Compound	0.02000 Level 1	0.10000 Level 2	0.25000 Level 3	0.50000 Level 4	1.000 Level 5	2.500 Level 6	RRF	% RSD
	5.000 Level 7							
9 C4-Naphthalenes	+++++	+++++	+++++	+++++	+++++	+++++	0.84855	+++++
12 2-Methylnaphthalene	0.89046 1.03031	1.00820	1.03189	1.02844	1.03169	1.03007	1.00729	5.182
15 1-Methylnaphthalene	0.85568 0.99722	0.97148	0.99627	0.99010	0.99510	0.98497	0.97012	5.283
16 Biphenyl	1.00492 1.22663	1.18273	1.23181	1.23764	1.25112	1.23914	1.19629	7.283
19 2,6 Dimethylnaphthalene	0.84544 1.04338	0.97742	1.01539	1.01729	1.03498	1.04177	0.99652	7.060
22 Acenaphthylene	0.85176 1.08067	0.97640	1.01085	1.01794	1.04747	1.07125	1.00805	7.722
24 Acenaphthene	0.51715 0.61417	0.59301	0.62101	0.61900	0.62783	0.62220	0.60205	6.488
25 2,3,5 Trimethylnaphthalene	0.65234 0.92238	0.77078	0.82203	0.85087	0.88753	0.91268	0.83123	11.438
27 Fluorene	0.58469 0.79265	0.73352	0.79946	0.81705	0.82715	0.81141	0.76656	11.192

Report Date : 27-Jul-2011 16:19

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 Origin : Disabled
 Target Version : 3.50
 Integrator : HP RTE
 Method file : /var/chem/gcms/mp.i/P072611I.b/SIMPAH3.m
 Cal Date : 27-Jul-2011 16:12 wilesd
 Curve Type : Average

Compound	0.02000 Level 1	0.10000 Level 2	0.25000 Level 3	0.50000 Level 4	1.000 Level 5	2.500 Level 6	RRF	% RSD
	5.000 Level 7							
29 C1-Fluorenes(a)	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						0.76656	+++++
30 C1-Fluorenes(b)	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						0.76656	+++++
M 31 C1-Fluorenes(total)	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						0.76656	+++++
32 C2-Fluorenes	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						0.76656	+++++
33 C3-Fluorenes	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						0.76656	+++++
36 Dibenzothiophene	0.84958 0.97870	0.94590	0.97176	0.96811	0.98201	0.98016		
							0.95374	4.985
37 C1-Dibenzothiophenes	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						0.95374	+++++
38 C2-Dibenzothiophenes	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						0.95374	+++++
39 C3-Dibenzothiophenes	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						0.95374	+++++

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 Cal Date : 27-Jul-2011 16:12 wilesd
 Curve Type : Average

Compound	0.02000 Level 1	0.10000 Level 2	0.25000 Level 3	0.50000 Level 4	1.000 Level 5	2.500 Level 6	RRF	% RSD
	5.000 Level 7							
40 C4-Dibenzothiophenes	+++++	+++++	+++++	+++++	+++++	+++++	0.95374	+++++
43 Phenanthrene	0.98878 1.12656	1.09020	1.11409	1.11449	1.12195	1.12843	1.09779	4.530
46 Anthracene	1.18726 1.28079	1.29957	1.33271	1.29910	1.30681	1.30017	1.28663	3.610
48 C1-Phenan/Anthracenes	+++++	+++++	+++++	+++++	+++++	+++++	1.09779	+++++
49 C2-Phenan/Anthracenes (a)	+++++	+++++	+++++	+++++	+++++	+++++	1.09779	+++++
220 C2-Phenan/Anthracenes (b)	+++++	+++++	+++++	+++++	+++++	+++++	1.09779	+++++
M 221 C2-Phenan/Anthracenes (total)	+++++	+++++	+++++	+++++	+++++	+++++	1.09779	+++++
50 C3-Phenan/Anthracenes	+++++	+++++	+++++	+++++	+++++	+++++	1.09779	+++++
51 C4-Phenan/Anthracenes	+++++	+++++	+++++	+++++	+++++	+++++	1.09779	+++++

Report Date : 27-Jul-2011 16:19

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 Cal Date : 27-Jul-2011 16:12 wilesd
 Curve Type : Average

Compound	0.02000 Level 1	0.10000 Level 2	0.25000 Level 3	0.50000 Level 4	1.000 Level 5	2.500 Level 6	RRF	% RSD
	5.000 Level 7							
52 1-Methylphenanthrene	0.49732 0.76424	0.58254	0.63617	0.67595	0.71188	0.74777	0.65941	14.459
55 Fluoranthene	0.98975 1.21464	1.08278	1.10672	1.12757	1.16327	1.19040	1.12502	6.710
57 Pyrene	1.06543 1.26211	1.14588	1.18791	1.19274	1.22568	1.24827	1.18972	5.674
59 C1-Fluoran/Pyrenes	+++++	+++++	+++++	+++++	+++++	+++++	1.18972	+++++
62 Benzo(a)anthracene	1.24558 1.84930	1.47203	1.51487	1.62663	1.68554	1.79613	1.59858	12.968
65 Chrysene	0.97261 1.10790	1.05942	1.14195	1.11391	1.12814	1.11646	1.09148	5.348
66 C1-Benz(a)anthraceneChrysenes	+++++	+++++	+++++	+++++	+++++	+++++	1.09148	+++++
67 C2-Benz(a)anthraceneChrysenes	+++++	+++++	+++++	+++++	+++++	+++++	1.09148	+++++
68 C3-Benz(a)anthraceneChrysenes	+++++	+++++	+++++	+++++	+++++	+++++	1.09148	+++++

Report Date : 27-Jul-2011 16:19

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 Target Version : 3.50
 Integrator : HP RTE
 Method file : /var/chem/gcms/mp.i/P072611I.b/SIMPAH3.m
 Cal Date : 27-Jul-2011 16:12 wilesd
 Curve Type : Average

Compound	0.02000 Level 1	0.10000 Level 2	0.25000 Level 3	0.50000 Level 4	1.000 Level 5	2.500 Level 6	RRF	% RSD
	5.000 Level 7							
69 C4-Benz(a)anthraceneChrysenes	+++++	+++++	+++++	+++++	+++++	+++++	1.09148	+++++
72 Benzo(b)fluoranthene	1.35671 1.58797	1.38997	1.44092	1.45471	1.50203	1.55075	1.46901	5.680
75 Benzo(k)fluoranthene	0.97737 1.15945	1.05638	1.10053	1.11237	1.12309	1.13378	1.09471	5.545
77 Benzo(e)pyrene	1.34324 1.37122	1.25141	1.38210	1.38148	1.38156	1.39951	1.35865	3.700
80 Benzo(a)pyrene	0.89786 1.28351	0.97897	1.10503	1.15246	1.21246	1.31276	1.13472	13.530
83 Perylene	1.02632 1.37505	1.15220	1.25446	1.29834	1.33298	1.37981	1.25988	10.280
86 Indeno(1,2,3-cd)pyrene	1.03585 1.35638	1.10526	1.17710	1.21568	1.26780	1.31448	1.21037	9.426
89 Dibenz(a,h)anthracene	0.90185 1.43461	1.08224	1.18105	1.26194	1.33937	1.39426	1.22790	15.370
92 Benzo(g,h,i)perylene	1.13479 1.53407	1.30859	1.37152	1.40473	1.44953	1.48517	1.38406	9.577

Report Date : 27-Jul-2011 16:19

TestAmerica Knoxville

INITIAL CALIBRATION DATA

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 Quant Method : ISTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : HP RTE
 Method file : /var/chem/gcms/mp.i/P072611I.b/SIMPAH3.m
 Cal Date : 27-Jul-2011 16:12 wilesd
 Curve Type : Average

Compound	0.02000 Level 1	0.10000 Level 2	0.25000 Level 3	0.50000 Level 4	1.000 Level 5	2.500 Level 6	RRF	% RSD
	5.000 Level 7							
=====								
\$ 2 Naphthalene-d8(SS)	2.37489	2.38833	2.33085	2.33637	2.33968	2.29967		
	2.39108						2.35155	1.447

\$ 222 13C6-Naphthalene	0.97145	0.94711	0.95881	0.96704	0.90789	0.86892		
	0.80743						0.91838	6.670

\$ 11 2-Methylnaphthalene-d10(SS)	1.28039	1.28573	1.24824	1.25761	1.26394	1.25584		
	1.29027						1.26886	1.296

\$ 14 1-Methylnaphthalene-d10(SS)	1.28412	1.29062	1.25752	1.25018	1.25414	1.23830		
	1.25388						1.26125	1.502

\$ 18 2,6-Dimethylnaph-d12(SS)	1.08579	1.10054	1.06619	1.07980	1.08018	1.06989		
	1.09435						1.08239	1.141

\$ 21 Acenaphthylene-d8(SS)	1.78118	1.79027	1.71838	1.74703	1.76102	1.76408		
	1.82172						1.76910	1.862

\$ 26 Fluorene-d10	0.46568	0.56604	0.60946	0.61732	0.63276	0.63629		
	0.62208						0.59281	10.238

\$ 28 13C6-Fluorene	0.50884	0.62867	0.69205	0.70699	0.71618	0.70670		
	0.67192						0.66162	11.128

\$ 35 Dibenzothiophene-d8(SS)	1.47621	1.49620	1.46538	1.44919	1.44125	1.41978		
	1.46954						1.45965	1.719

Report Date : 27-Jul-2011 16:19

TestAmerica Knoxville

INITIAL CALIBRATION DATA

Start Cal Date : 26-JUL-2011 17:47
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 Quant Method : ISTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : HP RTE
 Method file : /var/chem/gcms/mp.i/P072611I.b/SIMPAH3.m
 Cal Date : 27-Jul-2011 16:12 wilesd
 Curve Type : Average

Compound	0.02000 Level 1	0.10000 Level 2	0.25000 Level 3	0.50000 Level 4	1.000 Level 5	2.500 Level 6	RRF	% RSD
	5.000 Level 7							
=====								
\$ 42 Phenanthrene-d10(SS)	1.32534	1.34419	1.32028	1.30969	1.31232	1.28439		
	1.32212						1.31690	1.381

\$ 45 Anthracene-d10(SS)	1.09338	1.10199	1.07524	1.10038	1.11638	1.11460		
	1.18221						1.11203	3.047

\$ 47 13C6-Anthracene	1.16923	1.19686	1.21263	1.21398	1.23359	1.18482		
	1.22643						1.20536	1.906

\$ 54 Fluoranthene-d10(SS)	1.23668	1.25101	1.22375	1.22707	1.22032	1.19844		
	1.22852						1.22654	1.307

\$ 58 Terphenyl-d14	0.36190	0.46898	0.51408	0.54119	0.56441	0.57209		
	0.56346						0.51230	14.746

\$ 61 Benzo(a)anthracene-d12(SS)	0.64108	0.62505	0.60697	0.59766	0.59549	0.58800		
	0.61475						0.60986	3.047

\$ 64 Chrysene-d12(SS)	1.01714	1.07754	1.03768	1.07780	1.08822	1.08005		
	1.11128						1.06996	2.978

\$ 71 Benzo(b)fluoranthene-d12(SS)	1.08354	1.10885	1.04614	1.05273	1.05298	1.01558		
	1.02113						1.05442	3.122

\$ 74 Benzo(k)fluoranthene-d12(SS)	1.44097	1.46842	1.46071	1.49418	1.51406	1.55605		
	1.59974						1.50487	3.757

Report Date : 27-Jul-2011 16:19

TestAmerica Knoxville

INITIAL CALIBRATION DATA

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 Origin : Disabled
 Target Version : 3.50
 Integrator : HP RTE
 Method file : /var/chem/gcms/mp.i/P072611I.b/SIMPAH3.m
 Cal Date : 27-Jul-2011 16:12 wilesd
 Curve Type : Average

Compound	0.02000 Level 1	0.10000 Level 2	0.25000 Level 3	0.50000 Level 4	1.000 Level 5	2.500 Level 6	RRF	% RSD
	5.000 Level 7							
\$ 79 Benzo(a)pyrene-d12(SS)	1.03060 1.16161	1.05428	1.02557	1.06782	1.10537	1.10147	1.07810	4.473
\$ 82 Perylene-d12(SS)	0.98211 1.16664	1.05141	1.04262	1.07858	1.09983	1.10564	1.07526	5.396
\$ 85 Indeno(123-cd)pyrene-d12(SS)	1.22022 1.27564	1.23523	1.18062	1.22302	1.24477	1.24432	1.23197	2.364
\$ 88 Dibenz(ah)anthracene-d14(SS)	0.92554 0.97708	0.93552	0.90023	0.93670	0.94592	0.94774	0.93839	2.489
\$ 91 Benzo(ghi)perylene-d12(SS)	0.91341 0.95644	0.92279	0.89345	0.91993	0.93889	0.93612	0.92586	2.187

Data File: /chem/gcms/mp.i/P072611I.b/pg26ic01.d
 Report Date: 26-Jul-2011 18:00

TestAmerica Knoxville

SEMIVOLATILE QUANTITATION REPORT

Data file : /chem/gcms/mp.i/P072611I.b/pg26ic01.d
 Lab Smp Id: PG26IC01 Client Smp ID: PAH0356
 Inj Date : 26-JUL-2011 17:47
 Operator : 11211 Inst ID: mp.i
 Smp Info : PG26IC01,,1,1,,PAH0356
 Misc Info : P072611I,SIMPAH3
 Comment :
 Method : /var/chem/gcms/mp.i/P072611I.b/SIMPAH3.m
 Meth Date : 26-Jul-2011 18:00 chemist Quant Type: ISTD
 Cal Date : 26-JUL-2011 17:47 Cal File: pg26ic01.d
 Als bottle: 1 Calibration Sample, Level: 1
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: pah.sub
 Target Version: 3.50
 Processing Host: qmidhp01

Concentration Formula: $\text{Amt} * \text{DF} * \text{Sf} * \text{Vt} / \text{Vo} * \text{CpndVariable}$

Name	Value	Description
DF	1.00000	Dilution Factor
Sf	1.00000	Split factor
Vt	500.00000	Volume of final extract (uL)
Vo	1.00000	Volume of sample extracted (sample)

Cpnd Variable

Local Compound Variable

Compounds	QUANT SIG	MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
							CAL-AMT (ug/ml)	ON-COL (ug/ml)
* 1 Naphthalene-d8	=====	136	4.873	4.873	(1.000)	788360	0.50000	0.500
\$ 2 Naphthalene-d8 (SS)	=====	136	4.873	4.873	(0.770)	788360	0.50000	0.507
3 Naphthalene	=====	128	4.888	4.888	(1.003)	24868	0.02000	0.0187
\$ 222 13C6-Naphthalene	=====	134	4.888	4.888	(1.003)	30634	0.02000	0.0211
* 10 2-Methylnaphthalene-d10	=====	152	5.431	5.431	(1.000)	425033	0.50000	0.500
\$ 11 2-Methylnaphthalene-d10 (SS)	=====	152	5.431	5.431	(0.858)	425033	0.50000	0.501
12 2-Methylnaphthalene	=====	142	5.457	5.457	(1.005)	15139	0.02000	0.0178
* 13 1-Methylnaphthalene-d10	=====	152	5.510	5.510	(1.000)	426271	0.50000	0.500
\$ 14 1-Methylnaphthalene-d10 (SS)	=====	152	5.510	5.510	(0.870)	426271	0.50000	0.510
15 1-Methylnaphthalene	=====	142	5.540	5.540	(1.005)	14590	0.02000	0.0177
16 Biphenyl	=====	154	5.845	5.845	(1.076)	17085	0.02000	0.0170
* 17 2,6-Dimethylnaphthalene-d12	=====	168	5.942	5.942	(1.000)	360435	0.50000	0.500
\$ 18 2,6-Dimethylnaph-d12 (SS)	=====	168	5.942	5.942	(0.939)	360435	0.50000	0.496
19 2,6 Dimethylnaphthalene	=====	156	5.979	5.979	(1.006)	12189	0.02000	0.0171

Data File: /chem/gcms/mp.i/P072611I.b/pg26ic01.d
Report Date: 26-Jul-2011 18:00

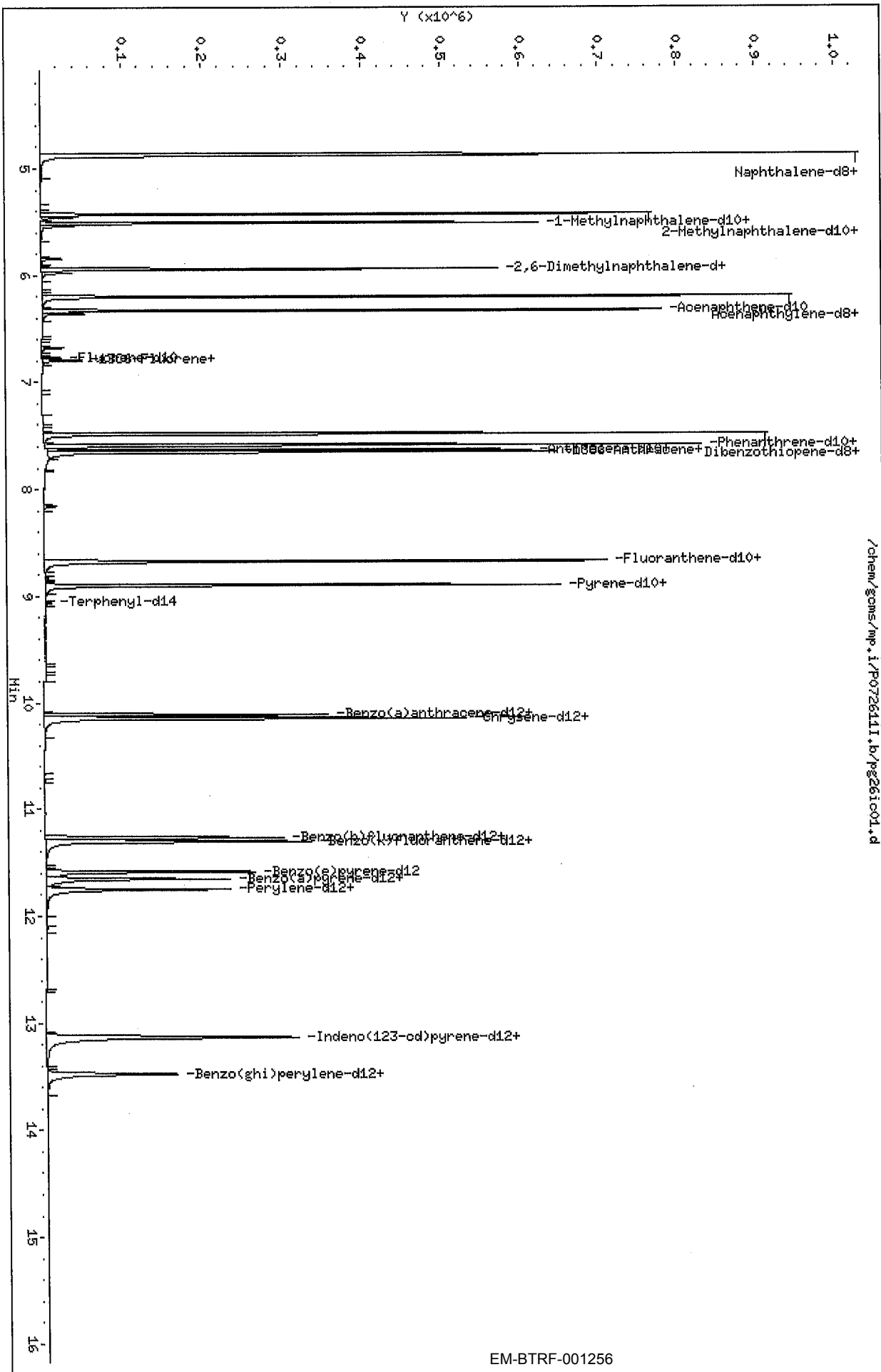
Compounds	QUANT SIG					AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)
=====	=====	==	=====	=====	=====	=====	=====
* 20 Acenaphthylene-d8	160	6.202	6.202	(1.000)	591275	0.50000	0.500
\$ 21 Acenaphthylene-d8 (SS)	160	6.202	6.202	(0.980)	591275	0.50000	0.472
22 Acenaphthylene	152	6.211	6.211	(1.001)	20145	0.02000	0.0177
* 23 Acenaphthene-d10	164	6.330	6.330	(1.000)	331957	0.50000	0.500
24 Acenaphthene	154	6.359	6.359	(1.025)	12231	0.02000	0.0183
25 2,3,5 Trimethylnaphthalene	170	6.679	6.679	(1.124)	9405	0.02000	0.0156
\$ 26 Fluorene-d10	176	6.771	6.771	(0.893)	9700	0.02000	0.0156
27 Fluorene	166	6.796	6.796	(0.896)	12179	0.02000	0.0152
\$ 28 13C6-Fluorene	171	6.793	6.793	(0.895)	10599	0.02000	0.0153
* 34 Dibenzothiophene-d8	192	7.482	7.482	(1.000)	580024	0.50000	0.500
\$ 35 Dibenzothiophene-d8 (SS)	192	7.482	7.482	(0.841)	580024	0.50000	0.518
36 Dibenzothiophene	184	7.497	7.497	(1.002)	19711	0.02000	0.0180
* 41 Phenanthrene-d10	188	7.586	7.586	(1.000)	520743	0.50000	0.500
\$ 42 Phenanthrene-d10 (SS)	188	7.586	7.586	(0.853)	520743	0.50000	0.517
43 Phenanthrene	178	7.605	7.605	(1.002)	20596	0.02000	0.0182
* 44 Anthracene-d10	188	7.634	7.634	(1.000)	429602	0.50000	0.500
\$ 45 Anthracene-d10 (SS)	188	7.634	7.634	(0.858)	429602	0.50000	0.481
46 Anthracene	178	7.650	7.650	(1.002)	20402	0.02000	0.0193
\$ 47 13C6-Anthracene	184	7.650	7.650	(0.860)	459405	0.50000	0.491
52 1-Methylphenanthrene	192	8.158	8.158	(1.075)	10359	0.02000	0.0147
* 53 Fluoranthene-d10	212	8.674	8.674	(1.000)	485907	0.50000	0.500
\$ 54 Fluoranthene-d10 (SS)	212	8.674	8.674	(0.975)	485907	0.50000	0.499
55 Fluoranthene	202	8.691	8.691	(1.002)	19237	0.02000	0.0181
* 56 Pyrene-d10	212	8.896	8.896	(1.000)	392913	0.50000	0.500
57 Pyrene	202	8.913	8.913	(1.028)	20708	0.02000	0.0185
\$ 58 Terphenyl-d14	244	9.058	9.058	(1.044)	7034	0.02000	0.0144
* 60 Benzo(a)anthracene-d12	240	10.112	10.112	(1.000)	251890	0.50000	0.500
\$ 61 Benzo(a)anthracene-d12 (SS)	240	10.112	10.112	(1.137)	251890	0.50000	0.457
62 Benzo(a)anthracene	228	10.133	10.133	(1.002)	12550	0.02000	0.0174
* 63 Chrysene-d12	240	10.146	10.146	(1.000)	399648	0.50000	0.500
\$ 64 Chrysene-d12 (SS)	240	10.146	10.146	(1.141)	399648	0.50000	0.487
65 Chrysene	228	10.171	10.171	(1.002)	15548	0.02000	0.0177
* 70 Benzo(b)fluoranthene-d12	264	11.265	11.265	(1.000)	274064	0.50000	0.500
\$ 71 Benzo(b)fluoranthene-d12 (SS)	264	11.265	11.265	(0.972)	274064	0.50000	0.492
72 Benzo(b)fluoranthene	252	11.295	11.295	(1.003)	14873	0.02000	0.0200
* 73 Benzo(k)fluoranthene-d12	264	11.301	11.301	(1.000)	364472	0.50000	0.500
\$ 74 Benzo(k)fluoranthene-d12 (SS)	264	11.301	11.301	(0.975)	364472	0.50000	0.477
75 Benzo(k)fluoranthene	252	11.319	11.319	(1.002)	14249	0.02000	0.0177
* 76 Benzo(e)pyrene-d12	264	11.588	11.588	(1.000)	252935	0.50000	0.500
77 Benzo(e)pyrene	252	11.617	11.617	(0.997)	14006	0.02000	0.0214
* 78 Benzo(a)pyrene-d12	264	11.653	11.653	(1.000)	260675	0.50000	0.500
\$ 79 Benzo(a)pyrene-d12 (SS)	264	11.653	11.653	(1.006)	260675	0.50000	0.452
80 Benzo(a)pyrene	252	11.677	11.677	(1.002)	9362	0.02000	0.0164
* 81 Perylene-d12	264	11.749	11.749	(1.000)	248411	0.50000	0.500
\$ 82 Perylene-d12 (SS)	264	11.749	11.749	(1.014)	248411	0.50000	0.457
83 Perylene	252	11.779	11.779	(1.003)	10198	0.02000	0.0165
* 84 Indeno(123-cd)pyrene-d12	288	13.127	13.127	(1.000)	308636	0.50000	0.500

Data File: /chem/gcms/mp.i/P072611I.b/pg26ic01.d
 Report Date: 26-Jul-2011 18:00

Compounds	QUANT SIG					AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)
=====	=====	==	=====	=====	=====	=====	=====
\$ 85 Indeno(123-cd)pyrene-d12(SS)	288	13.127	13.127	(1.133)	308636	0.50000	0.477
86 Indeno(1,2,3-cd)pyrene	276	13.156	13.156	(1.002)	12788	0.02000	0.0178
* 87 Dibenz(ah)anthracene-d14	292	13.127	13.127	(1.000)	234101	0.50000	0.500
\$ 88 Dibenz(ah)anthracene-d14(SS)	292	13.127	13.127	(1.133)	234101	0.50000	0.483
89 Dibenz(a,h)anthracene	278	13.173	13.173	(1.004)	8445	0.02000	0.0151
* 90 Benzo(ghi)perylene-d12	288	13.477	13.477	(1.000)	231033	0.50000	0.500
\$ 91 Benzo(ghi)perylene-d12(SS)	288	13.477	13.477	(1.163)	231033	0.50000	0.491
92 Benzo(g,h,i)perylene	276	13.507	13.507	(1.002)	10487	0.02000	0.0167

Data File: /chem/gcms/mp.i/P0726111.b/p261c01.d
 Date: 26-JUL-2011 17:47
 Client ID: PAH0356
 Sample Info: PG261C01, 1,1, PAH0356
 Purge Volume: 1.0
 Column phase: Variant: SMS

Instrument: mp.i
 Operator: 11211
 Column diameter: 0.25



Data File: /chem/gcms/mp.i/P072611I.b/pg26ic02.d
 Report Date: 26-Jul-2011 18:25

TestAmerica Knoxville

SEMIVOLATILE QUANTITATION REPORT

Data file : /chem/gcms/mp.i/P072611I.b/pg26ic02.d
 Lab Smp Id: PG26IC02 Client Smp ID: PAH0357
 Inj Date : 26-JUL-2011 18:12
 Operator : 11211 Inst ID: mp.i
 Smp Info : PG26IC02,,1,2,,PAH0357
 Misc Info : P072611I,SIMPAH3
 Comment :
 Method : /var/chem/gcms/mp.i/P072611I.b/SIMPAH3.m
 Meth Date : 26-Jul-2011 18:25 chemist Quant Type: ISTD
 Cal Date : 26-JUL-2011 18:12 Cal File: pg26ic02.d
 Als bottle: 1 Calibration Sample, Level: 2
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: pah.sub
 Target Version: 3.50
 Processing Host: qmidhp01

Concentration Formula: Amt * DF * Sf*Vt/Vo * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Sf	1.00000	Split factor
Vt	500.00000	Volume of final extract (uL)
Vo	1.00000	Volume of sample extracted (sample)

Cpnd Variable

Local Compound Variable

Compounds	QUANT SIG	MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
							CAL-AMT (ug/ml)	ON-COL (ug/ml)
* 1 Naphthalene-d8	=====	136	4.873	4.873	(1.000)	797630	0.50000	0.500
\$ 2 Naphthalene-d8 (SS)	=====	136	4.873	4.873	(0.770)	797630	0.50000	0.509
3 Naphthalene	=====	128	4.888	4.888	(1.003)	138490	0.10000	0.103
\$ 222 13C6-Naphthalene	=====	134	4.888	4.888	(1.003)	151088	0.10000	0.103
* 10 2-Methylnaphthalene-d10	=====	152	5.431	5.431	(1.000)	429396	0.50000	0.500
\$ 11 2-Methylnaphthalene-d10 (SS)	=====	152	5.431	5.431	(0.858)	429396	0.50000	0.504
12 2-Methylnaphthalene	=====	142	5.457	5.457	(1.005)	86583	0.10000	0.101
* 13 1-Methylnaphthalene-d10	=====	152	5.510	5.510	(1.000)	431030	0.50000	0.500
\$ 14 1-Methylnaphthalene-d10 (SS)	=====	152	5.510	5.510	(0.870)	431030	0.50000	0.512
15 1-Methylnaphthalene	=====	142	5.540	5.540	(1.005)	83747	0.10000	0.100
16 Biphenyl	=====	154	5.845	5.845	(1.076)	101572	0.10000	0.0998
* 17 2,6-Dimethylnaphthalene-d12	=====	168	5.942	5.942	(1.000)	367548	0.50000	0.500
\$ 18 2,6-Dimethylnaph-d12 (SS)	=====	168	5.942	5.942	(0.939)	367548	0.50000	0.504
19 2,6 Dimethylnaphthalene	=====	156	5.979	5.979	(1.006)	71850	0.10000	0.0986

Data File: /chem/gcms/mp.i/P072611I.b/pg26ic02.d
Report Date: 26-Jul-2011 18:25

Compounds	QUANT SIG					AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)
=====	=====	==	=====	=====	=====	=====	=====
* 20 Acenaphthylene-d8	160	6.199	6.199	(1.000)	597895	0.50000	0.500
\$ 21 Acenaphthylene-d8 (SS)	160	6.199	6.199	(0.979)	597895	0.50000	0.481
22 Acenaphthylene	152	6.211	6.211	(1.002)	116757	0.10000	0.101
* 23 Acenaphthene-d10	164	6.330	6.330	(1.000)	333970	0.50000	0.500
24 Acenaphthene	154	6.359	6.359	(1.026)	70912	0.10000	0.104
25 2,3,5 Trimethylnaphthalene	170	6.676	6.676	(1.123)	56660	0.10000	0.0927
\$ 26 Fluorene-d10	176	6.768	6.768	(0.892)	60583	0.10000	0.0952
27 Fluorene	166	6.791	6.791	(0.895)	78508	0.10000	0.0958
\$ 28 13C6-Fluorene	171	6.791	6.791	(0.895)	67286	0.10000	0.0950
* 34 Dibenzothiophene-d8	192	7.482	7.482	(1.000)	595663	0.50000	0.500
\$ 35 Dibenzothiophene-d8 (SS)	192	7.482	7.482	(0.841)	595663	0.50000	0.523
36 Dibenzothiophene	184	7.497	7.497	(1.002)	112687	0.10000	0.100
* 41 Phenanthrene-d10	188	7.586	7.586	(1.000)	535143	0.50000	0.500
\$ 42 Phenanthrene-d10 (SS)	188	7.586	7.586	(0.853)	535143	0.50000	0.521
43 Phenanthrene	178	7.605	7.605	(1.002)	116683	0.10000	0.1000
* 44 Anthracene-d10	188	7.634	7.634	(1.000)	438721	0.50000	0.500
\$ 45 Anthracene-d10 (SS)	188	7.634	7.634	(0.858)	438721	0.50000	0.488
46 Anthracene	178	7.651	7.651	(1.002)	114030	0.10000	0.105
\$ 47 13C6-Anthracene	184	7.651	7.651	(0.860)	476490	0.50000	0.502
52 1-Methylphenanthrene	192	8.155	8.155	(1.075)	62348	0.10000	0.0870
* 53 Fluoranthene-d10	212	8.674	8.674	(1.000)	498047	0.50000	0.500
\$ 54 Fluoranthene-d10 (SS)	212	8.674	8.674	(0.975)	498047	0.50000	0.506
55 Fluoranthene	202	8.691	8.691	(1.002)	107855	0.10000	0.0983
* 56 Pyrene-d10	212	8.895	8.895	(1.000)	398116	0.50000	0.500
57 Pyrene	202	8.913	8.913	(1.028)	114140	0.10000	0.0989
\$ 58 Terphenyl-d14	244	9.054	9.054	(1.044)	46715	0.10000	0.0930
* 60 Benzo(a)anthracene-d12	240	10.108	10.108	(1.000)	248844	0.50000	0.500
\$ 61 Benzo(a)anthracene-d12 (SS)	240	10.108	10.108	(1.136)	248844	0.50000	0.457
62 Benzo(a)anthracene	228	10.133	10.133	(1.002)	73261	0.10000	0.101
* 63 Chrysene-d12	240	10.141	10.141	(1.000)	428986	0.50000	0.500
\$ 64 Chrysene-d12 (SS)	240	10.141	10.141	(1.140)	428986	0.50000	0.513
65 Chrysene	228	10.171	10.171	(1.003)	90895	0.10000	0.0970
* 70 Benzo(b)fluoranthene-d12	264	11.265	11.265	(1.000)	284279	0.50000	0.500
\$ 71 Benzo(b)fluoranthene-d12 (SS)	264	11.265	11.265	(0.973)	284279	0.50000	0.507
72 Benzo(b)fluoranthene	252	11.288	11.288	(1.002)	79028	0.10000	0.101
* 73 Benzo(k)fluoranthene-d12	264	11.300	11.300	(1.000)	376455	0.50000	0.500
\$ 74 Benzo(k)fluoranthene-d12 (SS)	264	11.300	11.300	(0.976)	376462	0.50000	0.487
75 Benzo(k)fluoranthene	252	11.318	11.318	(1.002)	79536	0.10000	0.0960
* 76 Benzo(e)pyrene-d12	264	11.581	11.581	(1.000)	256373	0.50000	0.500
77 Benzo(e)pyrene	252	11.611	11.611	(0.997)	68680	0.10000	0.0985
* 78 Benzo(a)pyrene-d12	264	11.647	11.647	(1.000)	274410	0.50000	0.500
\$ 79 Benzo(a)pyrene-d12 (SS)	264	11.647	11.647	(1.006)	270290	0.50000	0.469
80 Benzo(a)pyrene	252	11.677	11.677	(1.003)	53728	0.10000	0.0892
* 81 Perylene-d12	264	11.749	11.749	(1.000)	269554	0.50000	0.500
\$ 82 Perylene-d12 (SS)	264	11.749	11.749	(1.014)	269554	0.50000	0.491
83 Perylene	252	11.778	11.778	(1.003)	62116	0.10000	0.0928
* 84 Indeno(123-cd)pyrene-d12	288	13.122	13.122	(1.000)	316079	0.50000	0.500

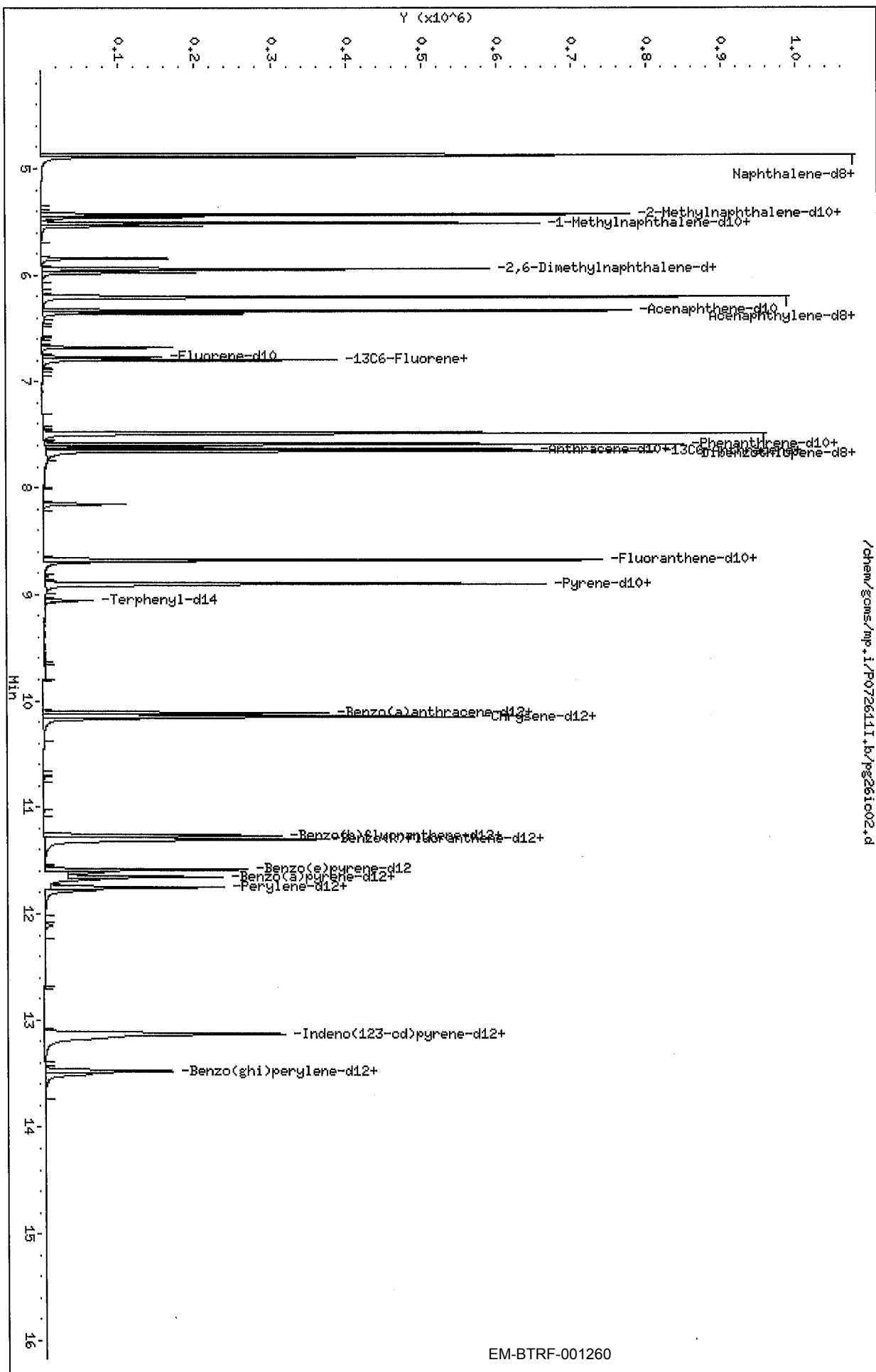
Data File: /chem/gcms/mp.i/P072611I.b/pg26ic02.d

Report Date: 26-Jul-2011 18:25

Compounds	QUANT SIG					AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)
=====	=====	==	=====	=====	=====	=====	=====
\$ 85 Indeno(123-cd)pyrene-d12(SS)	288	13.122	13.122	(1.133)	316680	0.50000	0.486
86 Indeno(1,2,3-cd)pyrene	276	13.156	13.156	(1.003)	69870	0.10000	0.0946
* 87 Dibenz(ah)anthracene-d14	292	13.127	13.127	(1.000)	239841	0.50000	0.500
\$ 88 Dibenz(ah)anthracene-d14(SS)	292	13.127	13.127	(1.133)	239841	0.50000	0.490
89 Dibenz(a,h)anthracene	278	13.173	13.173	(1.004)	51913	0.10000	0.0903
* 90 Benzo(ghi)perylene-d12	288	13.477	13.477	(1.000)	236055	0.50000	0.500
\$ 91 Benzo(ghi)perylene-d12(SS)	288	13.477	13.477	(1.164)	236578	0.50000	0.497
92 Benzo(g,h,i)perylene	276	13.511	13.511	(1.002)	61780	0.10000	0.0961

Data File: /chem/gcms/mp.i/P072611.b/pg261c02.d
 Date : 26-JUL-2011 18:12
 Client ID: PAH0357
 Sample Info: PG261C02,1,2,,PAH0357
 Purge Volume: 1.0
 Column phase: Variant SMS

Instrument: mp.i
 Operator: 11211
 Column diameter: 0.25



Data File: /chem/gcms/mp.i/P072611I.b/pg26ic03.d
 Report Date: 26-Jul-2011 18:50

TestAmerica Knoxville

SEMIVOLATILE QUANTITATION REPORT

Data file : /chem/gcms/mp.i/P072611I.b/pg26ic03.d
 Lab Smp Id: PG26IC03 Client Smp ID: PAH0358
 Inj Date : 26-JUL-2011 18:37
 Operator : 11211 Inst ID: mp.i
 Smp Info : PG26IC03,,1,3,,PAH0358
 Misc Info : P072611I,SIMPAH3
 Comment :
 Method : /var/chem/gcms/mp.i/P072611I.b/SIMPAH3.m
 Meth Date : 26-Jul-2011 18:50 chemist Quant Type: ISTD
 Cal Date : 26-JUL-2011 18:37 Cal File: pg26ic03.d
 Als bottle: 1 Calibration Sample, Level: 3
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: pah.sub
 Target Version: 3.50
 Processing Host: qmidhp01

Concentration Formula: $\text{Amt} * \text{DF} * \text{Sf} * \text{Vt} / \text{Vo} * \text{CpndVariable}$

Name	Value	Description
DF	1.00000	Dilution Factor
Sf	1.00000	Split factor
Vt	500.00000	Volume of final extract (uL)
Vo	1.00000	Volume of sample extracted (sample)

Cpnd Variable

Local Compound Variable

Compounds	QUANT SIG	MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
							CAL-AMT (ug/ml)	ON-COL (ug/ml)
*****	----	----	--	-----	-----	-----	-----	-----
* 1 Naphthalene-d8		136	4.872	4.872	(1.000)	741572	0.50000	0.500
\$ 2 Naphthalene-d8 (SS)		136	4.872	4.872	(0.770)	741572	0.50000	0.497
3 Naphthalene		128	4.887	4.887	(1.003)	327736	0.25000	0.261
\$ 222 13C6-Naphthalene		134	4.887	4.887	(1.003)	355515	0.25000	0.261
* 10 2-Methylnaphthalene-d10		152	5.430	5.430	(1.000)	397133	0.50000	0.500
\$ 11 2-Methylnaphthalene-d10 (SS)		152	5.430	5.430	(0.858)	397133	0.50000	0.490
12 2-Methylnaphthalene		142	5.457	5.457	(1.005)	204899	0.25000	0.257
* 13 1-Methylnaphthalene-d10		152	5.510	5.510	(1.000)	400087	0.50000	0.500
\$ 14 1-Methylnaphthalene-d10 (SS)		152	5.510	5.510	(0.870)	400087	0.50000	0.499
15 1-Methylnaphthalene		142	5.540	5.540	(1.005)	199298	0.25000	0.257
16 Biphenyl		154	5.842	5.842	(1.076)	244596	0.25000	0.259
* 17 2,6-Dimethylnaphthalene-d12		168	5.942	5.942	(1.000)	339213	0.50000	0.500
\$ 18 2,6-Dimethylnaph-d12 (SS)		168	5.942	5.942	(0.939)	339213	0.50000	0.489
19 2,6 Dimethylnaphthalene		156	5.979	5.979	(1.006)	172216	0.25000	0.256

Data File: /chem/gcms/mp.i/P072611I.b/pg26ic03.d

Report Date: 26-Jul-2011 18:50

Compounds	QUANT SIG					AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)
=====	=====	==	=====	=====	=====	=====	=====
* 20 Acenaphthylene-d8	160	6.199	6.199	(1.000)	546710	0.50000	0.500
\$ 21 Acenaphthylene-d8 (SS)	160	6.199	6.199	(0.979)	546710	0.50000	0.468
22 Acenaphthylene	152	6.211	6.211	(1.002)	276320	0.25000	0.259
* 23 Acenaphthene-d10	164	6.330	6.330	(1.000)	318155	0.50000	0.500
24 Acenaphthene	154	6.359	6.359	(1.026)	169757	0.25000	0.267
25 2,3,5 Trimethylnaphthalene	170	6.676	6.676	(1.124)	139422	0.25000	0.248
\$ 26 Fluorene-d10	176	6.768	6.768	(0.892)	150689	0.25000	0.256
27 Fluorene	166	6.791	6.791	(0.895)	197667	0.25000	0.261
\$ 28 13C6-Fluorene	171	6.791	6.791	(0.895)	171110	0.25000	0.262
* 34 Dibenzothiophene-d8	192	7.482	7.482	(1.000)	548843	0.50000	0.500
\$ 35 Dibenzothiophene-d8 (SS)	192	7.482	7.482	(0.841)	548843	0.50000	0.509
36 Dibenzothiophene	184	7.497	7.497	(1.002)	266673	0.25000	0.257
* 41 Phenanthrene-d10	188	7.586	7.586	(1.000)	494499	0.50000	0.500
\$ 42 Phenanthrene-d10 (SS)	188	7.586	7.586	(0.853)	494499	0.50000	0.509
43 Phenanthrene	178	7.605	7.605	(1.002)	275458	0.25000	0.255
* 44 Anthracene-d10	188	7.634	7.634	(1.000)	402720	0.50000	0.500
\$ 45 Anthracene-d10 (SS)	188	7.634	7.634	(0.858)	402720	0.50000	0.479
46 Anthracene	178	7.650	7.650	(1.002)	268354	0.25000	0.265
\$ 47 13C6-Anthracene	184	7.650	7.650	(0.860)	454177	0.50000	0.507
52 1-Methylphenanthrene	192	8.153	8.153	(1.075)	157293	0.25000	0.239
* 53 Fluoranthene-d10	212	8.674	8.674	(1.000)	458344	0.50000	0.500
\$ 54 Fluoranthene-d10 (SS)	212	8.674	8.674	(0.975)	458344	0.50000	0.496
55 Fluoranthene	202	8.691	8.691	(1.002)	253630	0.25000	0.250
* 56 Pyrene-d10	212	8.895	8.895	(1.000)	374540	0.50000	0.500
57 Pyrene	202	8.912	8.912	(1.028)	272236	0.25000	0.255
\$ 58 Terphenyl-d14	244	9.054	9.054	(1.044)	117813	0.25000	0.255
* 60 Benzo(a)anthracene-d12	240	10.112	10.112	(1.000)	227336	0.50000	0.500
\$ 61 Benzo(a)anthracene-d12 (SS)	240	10.112	10.112	(1.137)	227336	0.50000	0.453
62 Benzo(a)anthracene	228	10.133	10.133	(1.002)	172192	0.25000	0.257
* 63 Chrysene-d12	240	10.145	10.145	(1.000)	388654	0.50000	0.500
\$ 64 Chrysene-d12 (SS)	240	10.145	10.145	(1.141)	388654	0.50000	0.494
65 Chrysene	228	10.171	10.171	(1.002)	221911	0.25000	0.261
* 70 Benzo(b)fluoranthene-d12	264	11.264	11.264	(1.000)	249292	0.50000	0.500
\$ 71 Benzo(b)fluoranthene-d12 (SS)	264	11.264	11.264	(0.973)	249292	0.50000	0.483
72 Benzo(b)fluoranthene	252	11.288	11.288	(1.002)	179605	0.25000	0.258
* 73 Benzo(k)fluoranthene-d12	264	11.300	11.300	(1.000)	348073	0.50000	0.500
\$ 74 Benzo(k)fluoranthene-d12 (SS)	264	11.300	11.300	(0.976)	348081	0.50000	0.486
75 Benzo(k)fluoranthene	252	11.318	11.318	(1.002)	191532	0.25000	0.251
* 76 Benzo(e)pyrene-d12	264	11.581	11.581	(1.000)	238296	0.50000	0.500
77 Benzo(e)pyrene	252	11.617	11.617	(0.997)	168885	0.25000	0.267
* 78 Benzo(a)pyrene-d12	264	11.647	11.647	(1.000)	244389	0.50000	0.500
\$ 79 Benzo(a)pyrene-d12 (SS)	264	11.647	11.647	(1.006)	244389	0.50000	0.462
80 Benzo(a)pyrene	252	11.677	11.677	(1.003)	135029	0.25000	0.250
* 81 Perylene-d12	264	11.748	11.748	(1.000)	248452	0.50000	0.500
\$ 82 Perylene-d12 (SS)	264	11.748	11.748	(1.014)	248452	0.50000	0.487
83 Perylene	252	11.778	11.778	(1.003)	155836	0.25000	0.252
* 84 Indeno(123-cd)pyrene-d12	288	13.122	13.122	(1.000)	281336	0.50000	0.500

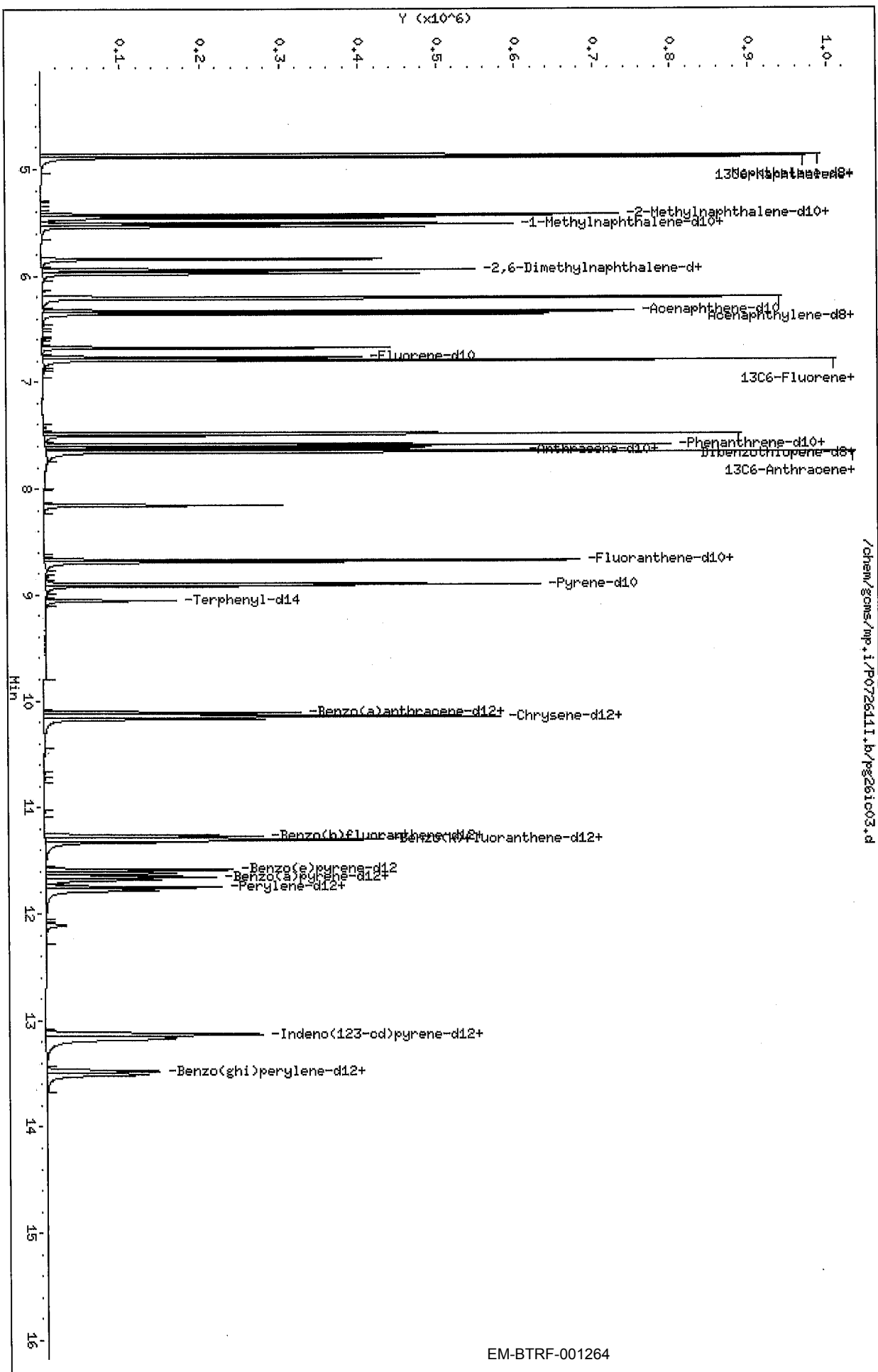
Data File: /chem/gcms/mp.i/P072611I.b/pg26ic03.d

Report Date: 26-Jul-2011 18:50

Compounds	QUANT SIG					AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)
=====	=====	==	=====	=====	=====	=====	=====
\$ 85 Indeno(123-cd)pyrene-d12 (SS)	288	13.122	13.122	(1.133)	281336	0.50000	0.468
86 Indeno(1,2,3-cd)pyrene	276	13.156	13.156	(1.003)	165581	0.25000	0.250
* 87 Dibenz(ah)anthracene-d14	292	13.126	13.126	(1.000)	214521	0.50000	0.500
\$ 88 Dibenz(ah)anthracene-d14 (SS)	292	13.126	13.126	(1.133)	214521	0.50000	0.474
89 Dibenz(a,h)anthracene	278	13.173	13.173	(1.004)	126680	0.25000	0.245
* 90 Benzo(ghi)perylene-d12	288	13.477	13.477	(1.000)	212906	0.50000	0.500
\$ 91 Benzo(ghi)perylene-d12 (SS)	288	13.477	13.477	(1.164)	212906	0.50000	0.481
92 Benzo(g,h,i)perylene	276	13.506	13.506	(1.002)	146002	0.25000	0.251

Data File: /chem/gcms/mp.i/P0726111.b/pg261003.d
 Date: 26-JUL-2011 18:37
 Client ID: PAH0358
 Sample Info: PG261003, 1, 3, PAH0358
 Purge Volume: 1.0
 Column Phase: Variant SMS

Instrument: mp.i
 Operator: 11211
 Column diameter: 0.25



Data File: /chem/gcms/mp.i/P072611I.b/pg26ic04.d
 Report Date: 26-Jul-2011 19:15

TestAmerica Knoxville

SEMIVOLATILE QUANTITATION REPORT

Data file : /chem/gcms/mp.i/P072611I.b/pg26ic04.d
 Lab Smp Id: PG26IC04 Client Smp ID: PAH0359
 Inj Date : 26-JUL-2011 19:02
 Operator : 11211 Inst ID: mp.i
 Smp Info : PG26IC04,,1,4,,PAH0359
 Misc Info : P072611I,SIMPAH3
 Comment :
 Method : /var/chem/gcms/mp.i/P072611I.b/SIMPAH3.m
 Meth Date : 26-Jul-2011 19:15 chemist Quant Type: ISTD
 Cal Date : 26-JUL-2011 19:02 Cal File: pg26ic04.d
 Als bottle: 1 Calibration Sample, Level: 4
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: pah.sub
 Target Version: 3.50
 Processing Host: qmidhp01

Concentration Formula: Amt * DF * Sf*Vt/Vo * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Sf	1.00000	Split factor
Vt	500.00000	Volume of final extract (uL)
Vo	1.00000	Volume of sample extracted (sample)

Cpnd Variable

Local Compound Variable

Compounds	QUANT SIG	MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
							CAL-AMT (ug/ml)	ON-COL (ug/ml)
* 1 Naphthalene-d8	=====	136	4.873	4.873	(1.000)	785363	0.50000	0.500
\$ 2 Naphthalene-d8 (SS)	=====	136	4.873	4.873	(0.770)	785363	0.50000	0.499
3 Naphthalene	=====	128	4.887	4.887	(1.003)	683021	0.50000	0.513
\$ 222 13C6-Naphthalene	=====	134	4.887	4.887	(1.003)	759477	0.50000	0.526
* 10 2-Methylnaphthalene-d10	=====	152	5.431	5.431	(1.000)	422743	0.50000	0.500
\$ 11 2-Methylnaphthalene-d10 (SS)	=====	152	5.431	5.431	(0.858)	422743	0.50000	0.494
12 2-Methylnaphthalene	=====	142	5.457	5.457	(1.005)	434767	0.50000	0.512
* 13 1-Methylnaphthalene-d10	=====	152	5.510	5.510	(1.000)	420243	0.50000	0.500
\$ 14 1-Methylnaphthalene-d10 (SS)	=====	152	5.510	5.510	(0.870)	420243	0.50000	0.496
15 1-Methylnaphthalene	=====	142	5.540	5.540	(1.005)	416084	0.50000	0.510
16 Biphenyl	=====	154	5.842	5.842	(1.076)	523205	0.50000	0.519
* 17 2,6-Dimethylnaphthalene-d12	=====	168	5.940	5.940	(1.000)	362971	0.50000	0.500
\$ 18 2,6-Dimethylnaph-d12 (SS)	=====	168	5.940	5.940	(0.938)	362971	0.50000	0.497
19 2,6 Dimethylnaphthalene	=====	156	5.976	5.976	(1.006)	369246	0.50000	0.512

Data File: /chem/gcms/mp.i/P072611I.b/pg26ic04.d

Report Date: 26-Jul-2011 19:15

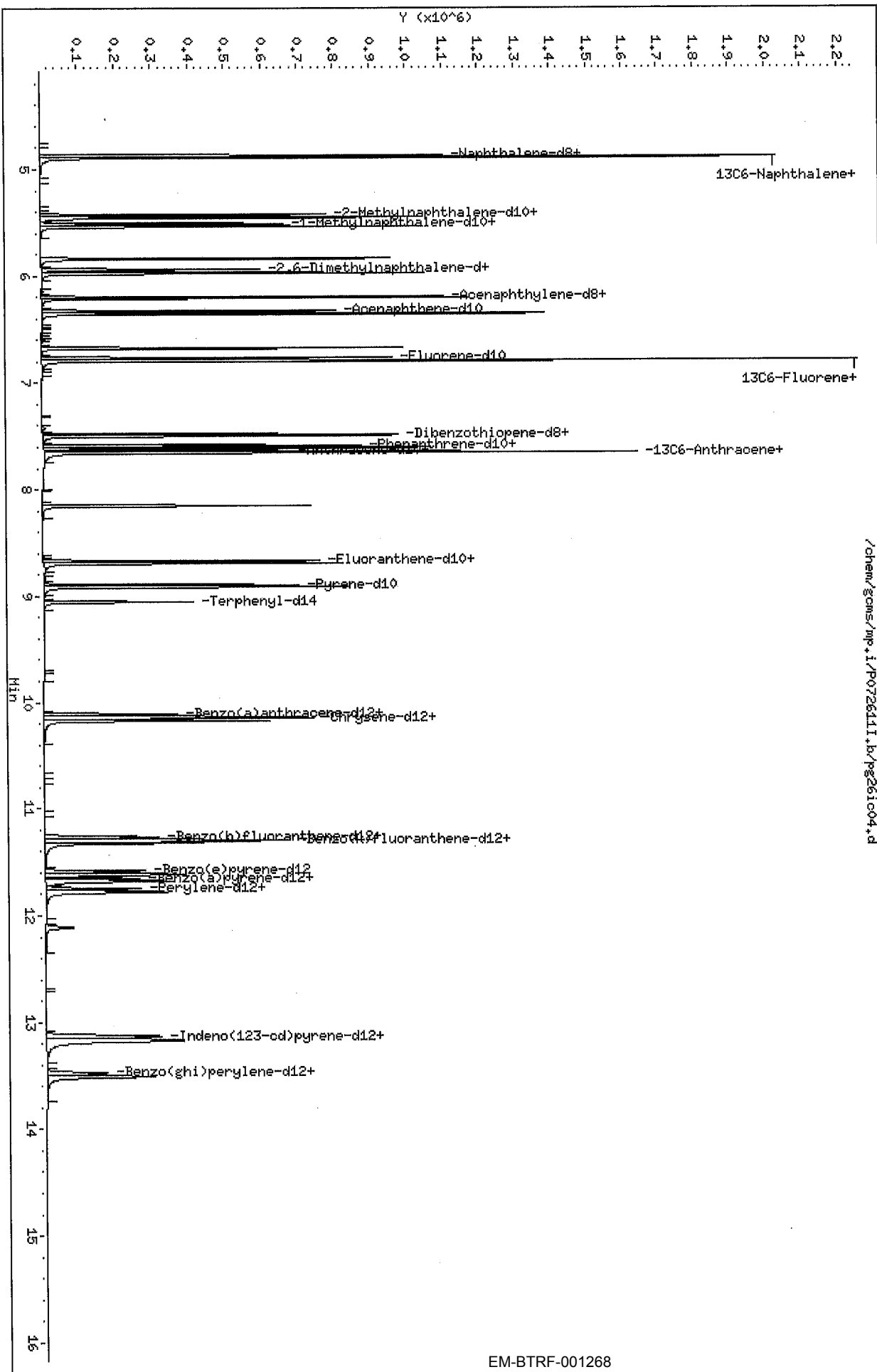
Compounds	QUANT SIG					AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)
=====	=====	==	=====	=====	=====	=====	=====
* 20 Acenaphthylene-d8	160	6.199	6.199	(1.000)	587259	0.50000	0.500
\$ 21 Acenaphthylene-d8 (SS)	160	6.199	6.199	(0.979)	587259	0.50000	0.482
22 Acenaphthylene	152	6.211	6.211	(1.002)	597793	0.50000	0.518
* 23 Acenaphthene-d10	164	6.330	6.330	(1.000)	336147	0.50000	0.500
24 Acenaphthene	154	6.356	6.356	(1.025)	363513	0.50000	0.527
25 2,3,5 Trimethylnaphthalene	170	6.676	6.676	(1.124)	308842	0.50000	0.513
\$ 26 Fluorene-d10	176	6.766	6.766	(0.892)	330978	0.50000	0.520
27 Fluorene	166	6.791	6.791	(0.895)	438066	0.50000	0.533
\$ 28 13C6-Fluorene	171	6.788	6.788	(0.895)	379058	0.50000	0.534
* 34 Dibenzothiophene-d8	192	7.482	7.482	(1.000)	593262	0.50000	0.500
\$ 35 Dibenzothiophene-d8 (SS)	192	7.482	7.482	(0.841)	593262	0.50000	0.501
36 Dibenzothiophene	184	7.497	7.497	(1.002)	574340	0.50000	0.510
* 41 Phenanthrene-d10	188	7.584	7.584	(1.000)	536157	0.50000	0.500
\$ 42 Phenanthrene-d10 (SS)	188	7.584	7.584	(0.853)	536157	0.50000	0.503
43 Phenanthrene	178	7.605	7.605	(1.003)	597542	0.50000	0.509
* 44 Anthracene-d10	188	7.634	7.634	(1.000)	450469	0.50000	0.500
\$ 45 Anthracene-d10 (SS)	188	7.634	7.634	(0.858)	450469	0.50000	0.492
46 Anthracene	178	7.650	7.650	(1.002)	585204	0.50000	0.513
\$ 47 13C6-Anthracene	184	7.650	7.650	(0.860)	496976	0.50000	0.507
52 1-Methylphenanthrene	192	8.153	8.153	(1.075)	362413	0.50000	0.511
* 53 Fluoranthene-d10	212	8.674	8.674	(1.000)	502333	0.50000	0.500
\$ 54 Fluoranthene-d10 (SS)	212	8.674	8.674	(0.975)	502333	0.50000	0.498
55 Fluoranthene	202	8.691	8.691	(1.002)	566414	0.50000	0.508
* 56 Pyrene-d10	212	8.895	8.895	(1.000)	409376	0.50000	0.500
57 Pyrene	202	8.913	8.913	(1.028)	599154	0.50000	0.509
\$ 58 Terphenyl-d14	244	9.052	9.052	(1.044)	271857	0.50000	0.534
* 60 Benzo (a) anthracene-d12	240	10.108	10.108	(1.000)	244666	0.50000	0.500
\$ 61 Benzo (a) anthracene-d12 (SS)	240	10.108	10.108	(1.136)	244666	0.50000	0.458
62 Benzo (a) anthracene	228	10.133	10.133	(1.002)	397982	0.50000	0.540
* 63 Chrysene-d12	240	10.142	10.142	(1.000)	441227	0.50000	0.500
\$ 64 Chrysene-d12 (SS)	240	10.142	10.142	(1.140)	441227	0.50000	0.510
65 Chrysene	228	10.171	10.171	(1.003)	491486	0.50000	0.509
* 70 Benzo (b) fluoranthene-d12	264	11.265	11.265	(1.000)	279680	0.50000	0.500
\$ 71 Benzo (b) fluoranthene-d12 (SS)	264	11.265	11.265	(0.973)	279680	0.50000	0.490
72 Benzo (b) fluoranthene	252	11.289	11.289	(1.002)	406853	0.50000	0.514
* 73 Benzo (k) fluoranthene-d12	264	11.301	11.301	(1.000)	396960	0.50000	0.500
\$ 74 Benzo (k) fluoranthene-d12 (SS)	264	11.301	11.301	(0.976)	396960	0.50000	0.496
75 Benzo (k) fluoranthene	252	11.319	11.319	(1.002)	441568	0.50000	0.507
* 76 Benzo (e) pyrene-d12	264	11.581	11.581	(1.000)	265671	0.50000	0.500
77 Benzo (e) pyrene	252	11.611	11.611	(0.997)	391910	0.50000	0.526
* 78 Benzo (a) pyrene-d12	264	11.647	11.647	(1.000)	283689	0.50000	0.500
\$ 79 Benzo (a) pyrene-d12 (SS)	264	11.647	11.647	(1.006)	283689	0.50000	0.486
80 Benzo (a) pyrene	252	11.677	11.677	(1.003)	326939	0.50000	0.518
* 81 Perylene-d12	264	11.749	11.749	(1.000)	286548	0.50000	0.500
\$ 82 Perylene-d12 (SS)	264	11.749	11.749	(1.014)	286548	0.50000	0.504
83 Perylene	252	11.779	11.779	(1.003)	372038	0.50000	0.519
* 84 Indeno (123-cd) pyrene-d12	288	13.123	13.123	(1.000)	324921	0.50000	0.500

Data File: /chem/gcms/mp.i/P072611I.b/pg26ic04.d
 Report Date: 26-Jul-2011 19:15

Compounds	QUANT SIG					AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT	ON-COL
						(ug/ml)	(ug/ml)
=====	=====	==	=====	=====	=====	=====	=====
\$ 85 Indeno(123-cd)pyrene-d12 (SS)	288	13.123	13.123	(1.133)	324921	0.50000	0.489
86 Indeno(1,2,3-cd)pyrene	276	13.156	13.156	(1.003)	394999	0.50000	0.514
* 87 Dibenz (ah)anthracene-d14	292	13.127	13.127	(1.000)	248853	0.50000	0.500
\$ 88 Dibenz (ah)anthracene-d14 (SS)	292	13.127	13.127	(1.133)	248853	0.50000	0.496
89 Dibenz (a,h)anthracene	278	13.173	13.173	(1.004)	314038	0.50000	0.522
* 90 Benzo(ghi)perylene-d12	288	13.473	13.473	(1.000)	244398	0.50000	0.500
\$ 91 Benzo(ghi)perylene-d12 (SS)	288	13.473	13.473	(1.163)	244398	0.50000	0.496
92 Benzo(g,h,i)perylene	276	13.507	13.507	(1.002)	343312	0.50000	0.513

Data File: /chem/gcms/mp.i/P072611.b/pg261c04.d
 Date: 26-JUL-2011 19:02
 Client ID: PAH0359
 Sample Info: PG261C04,,1,4,,PAH0359
 Purge Volume: 1.0
 Column phase: Variant SMS

Instrument: mp.i
 Operator: 11211
 Column diameter: 0.25



Data File: /chem/gcms/mp.i/P072611I.b/pg26ic05.d
 Report Date: 26-Jul-2011 19:39

TestAmerica Knoxville

SEMIVOLATILE QUANTITATION REPORT

Data file : /chem/gcms/mp.i/P072611I.b/pg26ic05.d
 Lab Smp Id: PG26IC05 Client Smp ID: PAH0360
 Inj Date : 26-JUL-2011 19:26
 Operator : 11211 Inst ID: mp.i
 Smp Info : PG26IC05,,1,5,,PAH0360
 Misc Info : P072611I,SIMPAH3
 Comment :
 Method : /var/chem/gcms/mp.i/P072611I.b/SIMPAH3.m
 Meth Date : 26-Jul-2011 19:39 chemist Quant Type: ISTD
 Cal Date : 26-JUL-2011 19:26 Cal File: pg26ic05.d
 Als bottle: 1 Calibration Sample, Level: 5
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: pah.sub
 Target Version: 3.50
 Processing Host: qmidhp01

Concentration Formula: Amt * DF * Sf*Vt/Vo * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Sf	1.00000	Split factor
Vt	500.00000	Volume of final extract (uL)
Vo	1.00000	Volume of sample extracted (sample)

Cpnd Variable

Local Compound Variable

Compounds	QUANT SIG	MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
							CAL-AMT (ug/ml)	ON-COL (ug/ml)
=====	=====	=====	=====	=====	=====	=====	=====	=====
* 1 Naphthalene-d8		136	4.873	4.873	(1.000)	771715	0.50000	0.500
\$ 2 Naphthalene-d8 (SS)		136	4.873	4.873	(0.770)	771715	0.50000	0.498
3 Naphthalene		128	4.887	4.887	(1.003)	1336016	1.00000	1.02
\$ 222 13C6-Naphthalene		134	4.887	4.887	(1.003)	1401268	1.00000	0.989
* 10 2-Methylnaphthalene-d10		152	5.431	5.431	(1.000)	416895	0.50000	0.500
\$ 11 2-Methylnaphthalene-d10 (SS)		152	5.431	5.431	(0.858)	416895	0.50000	0.498
12 2-Methylnaphthalene		142	5.457	5.457	(1.005)	860211	1.00000	1.03
* 13 1-Methylnaphthalene-d10		152	5.510	5.510	(1.000)	413662	0.50000	0.500
\$ 14 1-Methylnaphthalene-d10 (SS)		152	5.510	5.510	(0.870)	413662	0.50000	0.498
15 1-Methylnaphthalene		142	5.540	5.540	(1.005)	823269	1.00000	1.03
16 Biphenyl		154	5.842	5.842	(1.076)	1043175	1.00000	1.05
* 17 2,6-Dimethylnaphthalene-d12		168	5.940	5.940	(1.000)	356284	0.50000	0.500
\$ 18 2,6-Dimethylnaph-d12 (SS)		168	5.940	5.940	(0.938)	356284	0.50000	0.498
19 2,6 Dimethylnaphthalene		156	5.976	5.976	(1.006)	737494	1.00000	1.04

Data File: /chem/gcms/mp.i/P072611I.b/pg26ic05.d

Report Date: 26-Jul-2011 19:39

Compounds	QUANT SIG					AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)
=====	=====	==	=====	=====	=====	=====	=====
* 20 Acenaphthylene-d8	160	6.199	6.199	(1.000)	580850	0.50000	0.500
\$ 21 Acenaphthylene-d8 (SS)	160	6.199	6.199	(0.979)	580850	0.50000	0.490
22 Acenaphthylene	152	6.211	6.211	(1.002)	1216850	1.00000	1.06
* 23 Acenaphthene-d10	164	6.330	6.330	(1.000)	329838	0.50000	0.500
24 Acenaphthene	154	6.356	6.356	(1.025)	729347	1.00000	1.06
25 2,3,5 Trimethylnaphthalene	170	6.676	6.676	(1.124)	632427	1.00000	1.07
\$ 26 Fluorene-d10	176	6.766	6.766	(0.892)	669881	1.00000	1.07
27 Fluorene	166	6.788	6.788	(0.895)	875681	1.00000	1.08
\$ 28 13C6-Fluorene	171	6.788	6.788	(0.895)	758198	1.00000	1.08
* 34 Dibenzothiophene-d8	192	7.480	7.480	(1.000)	581340	0.50000	0.500
\$ 35 Dibenzothiophene-d8 (SS)	192	7.480	7.480	(0.841)	581340	0.50000	0.498
36 Dibenzothiophene	184	7.497	7.497	(1.002)	1141758	1.00000	1.03
* 41 Phenanthrene-d10	188	7.584	7.584	(1.000)	529335	0.50000	0.500
\$ 42 Phenanthrene-d10 (SS)	188	7.584	7.584	(0.853)	529335	0.50000	0.502
43 Phenanthrene	178	7.605	7.605	(1.003)	1187779	1.00000	1.02
* 44 Anthracene-d10	188	7.634	7.634	(1.000)	450301	0.50000	0.500
\$ 45 Anthracene-d10 (SS)	188	7.634	7.634	(0.858)	450301	0.50000	0.500
46 Anthracene	178	7.648	7.648	(1.002)	1176916	1.00000	1.03
\$ 47 13C6-Anthracene	184	7.648	7.648	(0.860)	497578	0.50000	0.516
52 1-Methylphenanthrene	192	8.150	8.150	(1.075)	753645	1.00000	1.08
* 53 Fluoranthene-d10	212	8.674	8.674	(1.000)	492224	0.50000	0.500
\$ 54 Fluoranthene-d10 (SS)	212	8.674	8.674	(0.975)	492224	0.50000	0.496
55 Fluoranthene	202	8.689	8.689	(1.002)	1145180	1.00000	1.04
* 56 Pyrene-d10	212	8.893	8.893	(1.000)	403358	0.50000	0.500
57 Pyrene	202	8.911	8.911	(1.027)	1206619	1.00000	1.04
\$ 58 Terphenyl-d14	244	9.052	9.052	(1.044)	555636	1.00000	1.11
* 60 Benzo (a) anthracene-d12	240	10.108	10.108	(1.000)	240196	0.50000	0.500
\$ 61 Benzo (a) anthracene-d12 (SS)	240	10.108	10.108	(1.137)	240196	0.50000	0.466
62 Benzo (a) anthracene	228	10.129	10.129	(1.002)	809720	1.00000	1.10
* 63 Chrysene-d12	240	10.142	10.142	(1.000)	438944	0.50000	0.500
\$ 64 Chrysene-d12 (SS)	240	10.142	10.142	(1.140)	438944	0.50000	0.513
65 Chrysene	228	10.171	10.171	(1.003)	990378	1.00000	1.03
* 70 Benzo (b) fluoranthene-d12	264	11.265	11.265	(1.000)	276331	0.50000	0.500
\$ 71 Benzo (b) fluoranthene-d12 (SS)	264	11.265	11.265	(0.973)	276331	0.50000	0.493
72 Benzo (b) fluoranthene	252	11.289	11.289	(1.002)	830115	1.00000	1.05
* 73 Benzo (k) fluoranthene-d12	264	11.295	11.295	(1.000)	397329	0.50000	0.500
\$ 74 Benzo (k) fluoranthene-d12 (SS)	264	11.295	11.295	(0.975)	397329	0.50000	0.504
75 Benzo (k) fluoranthene	252	11.319	11.319	(1.002)	892469	1.00000	1.02
* 76 Benzo (e) pyrene-d12	264	11.581	11.581	(1.000)	262427	0.50000	0.500
77 Benzo (e) pyrene	252	11.611	11.611	(0.997)	801528	1.00000	1.04
* 78 Benzo (a) pyrene-d12	264	11.647	11.647	(1.000)	290080	0.50000	0.500
\$ 79 Benzo (a) pyrene-d12 (SS)	264	11.647	11.647	(1.006)	290080	0.50000	0.506
80 Benzo (a) pyrene	252	11.677	11.677	(1.003)	703418	1.00000	1.08
* 81 Perylene-d12	264	11.749	11.749	(1.000)	288626	0.50000	0.500
\$ 82 Perylene-d12 (SS)	264	11.749	11.749	(1.014)	288626	0.50000	0.513
83 Perylene	252	11.773	11.773	(1.002)	769463	1.00000	1.06
* 84 Indeno (123-cd) pyrene-d12	288	13.123	13.123	(1.000)	326660	0.50000	0.500

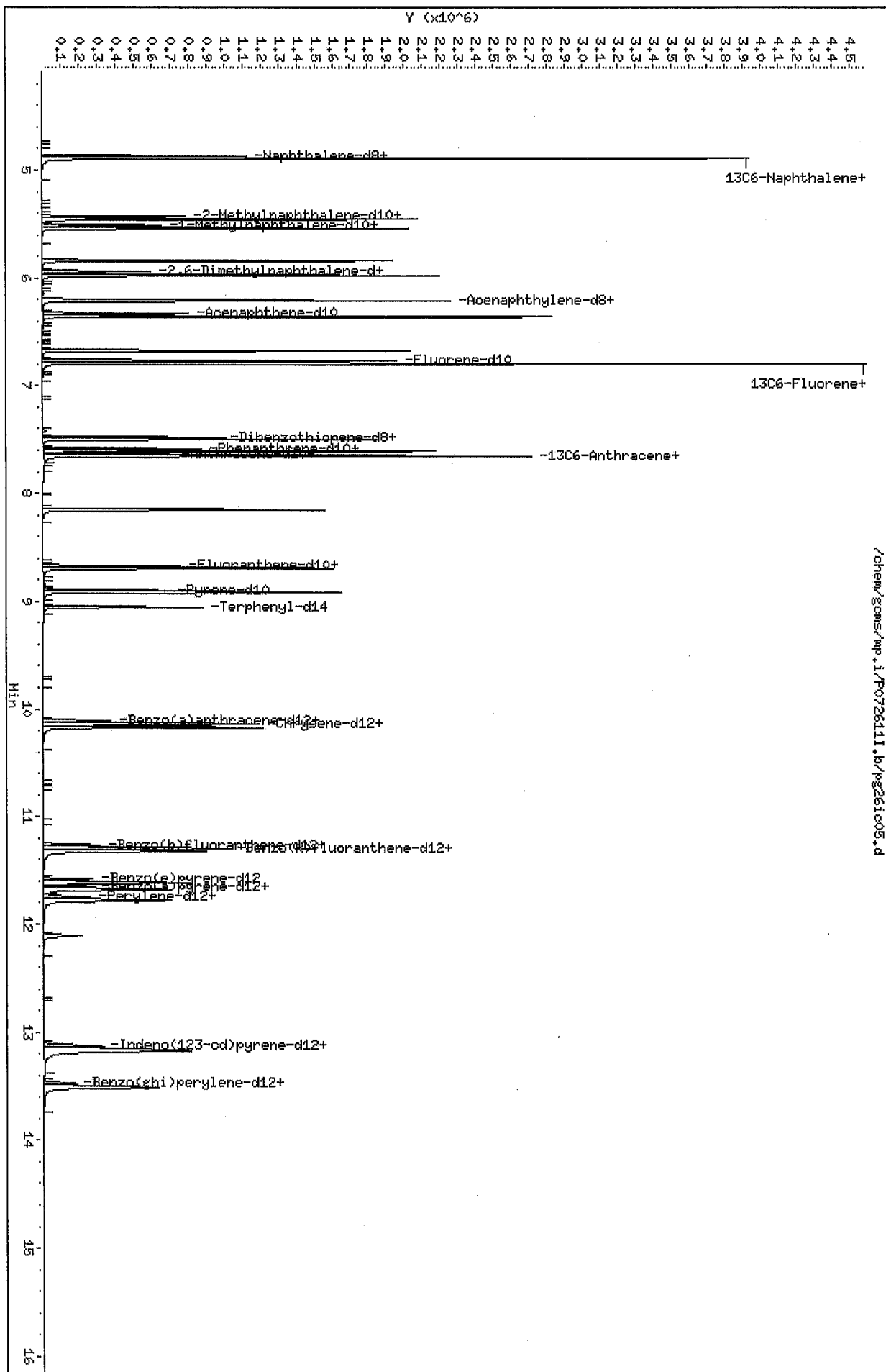
Data File: /chem/gcms/mp.i/P072611I.b/pg26ic05.d

Report Date: 26-Jul-2011 19:39

Compounds	QUANT SIG					AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT	ON-COL
						(ug/ml)	(ug/ml)
=====	=====	==	=====	=====	=====	=====	=====
\$ 85 Indeno(123-cd)pyrene-d12 (SS)	288	13.123	13.123	(1.133)	326660	0.50000	0.500
86 Indeno(1,2,3-cd)pyrene	276	13.156	13.156	(1.003)	828279	1.00000	1.06
* 87 Dibenz(ah)anthracene-d14	292	13.127	13.127	(1.000)	248235	0.50000	0.500
\$ 88 Dibenz(ah)anthracene-d14 (SS)	292	13.127	13.127	(1.133)	248235	0.50000	0.502
89 Dibenz(a,h)anthracene	278	13.173	13.173	(1.004)	664958	1.00000	1.10
* 90 Benzo(ghi)perylene-d12	288	13.473	13.473	(1.000)	246391	0.50000	0.500
\$ 91 Benzo(ghi)perylene-d12 (SS)	288	13.473	13.473	(1.163)	246391	0.50000	0.506
92 Benzo(g,h,i)perylene	276	13.507	13.507	(1.002)	714303	1.00000	1.06

Data File: /chem/gcms/mp.i/P0726111.b/pg261c05.d
 Date: 26-JUL-2011 19:26
 Client ID: PAH0360
 Sample Info: PG261C05,1,5,PAH0360
 Purge Volume: 1.0
 Column phase: Variant SMS

Instrument: mp.i
 Operator: 11211
 Column diameter: 0.25



Data File: /chem/gcms/mp.i/P072611I.b/pg26ic06.d
Report Date: 26-Jul-2011 20:03

TestAmerica Knoxville

SEMIVOLATILE QUANTITATION REPORT

Data file : /chem/gcms/mp.i/P072611I.b/pg26ic06.d
Lab Smp Id: PG26IC06 Client Smp ID: PAH0361
Inj Date : 26-JUL-2011 19:51
Operator : 11211 Inst ID: mp.i
Smp Info : PG26IC06,,1,6,,PAH0361
Misc Info : P072611I,SIMPAH3
Comment :
Method : /var/chem/gcms/mp.i/P072611I.b/SIMPAH3.m
Meth Date : 26-Jul-2011 20:03 chemist Quant Type: ISTD
Cal Date : 26-JUL-2011 19:51 Cal File: pg26ic06.d
Als bottle: 1 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 3.50
Processing Host: qmidhp01

Concentration Formula: Amt * DF * Sf*Vt/Vo * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Sf	1.00000	Split factor
Vt	500.00000	Volume of final extract (uL)
Vo	1.00000	Volume of sample extracted (sample)

Cpnd Variable

Local Compound Variable

Compounds	QUANT SIG	MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
							CAL-AMT (ug/ml)	ON-COL (ug/ml)
* 1 Naphthalene-d8	=====	136	4.873	4.873	(1.000)	740778	0.50000	0.500
\$ 2 Naphthalene-d8 (SS)	=====	136	4.873	4.873	(0.770)	740778	0.50000	0.489
3 Naphthalene	=====	128	4.891	4.891	(1.004)	3133055	2.50000	2.50
\$ 222 13C6-Naphthalene	=====	134	4.891	4.891	(1.004)	3218370	2.50000	2.37
* 10 2-Methylnaphthalene-d10	=====	152	5.431	5.431	(1.000)	404536	0.50000	0.500
\$ 11 2-Methylnaphthalene-d10 (SS)	=====	152	5.431	5.431	(0.858)	404536	0.50000	0.495
12 2-Methylnaphthalene	=====	142	5.454	5.454	(1.004)	2083505	2.50000	2.56
* 13 1-Methylnaphthalene-d10	=====	152	5.510	5.510	(1.000)	398885	0.50000	0.500
\$ 14 1-Methylnaphthalene-d10 (SS)	=====	152	5.510	5.510	(0.870)	398885	0.50000	0.491
15 1-Methylnaphthalene	=====	142	5.540	5.540	(1.005)	1964440	2.50000	2.54
16 Biphenyl	=====	154	5.840	5.840	(1.075)	2506391	2.50000	2.59
* 17 2,6-Dimethylnaphthalene-d12	=====	168	5.940	5.940	(1.000)	344635	0.50000	0.500
\$ 18 2,6-Dimethylnaph-d12 (SS)	=====	168	5.940	5.940	(0.938)	344635	0.50000	0.494
19 2,6 Dimethylnaphthalene	=====	156	5.976	5.976	(1.006)	1795151	2.50000	2.61

Data File: /chem/gcms/mp.i/P072611I.b/pg26ic06.d

Report Date: 26-Jul-2011 20:03

Compounds	QUANT SIG			AMOUNTS			
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)
=====	=====	==	=====	=====	=====	=====	=====
* 20 Acenaphthylene-d8	160	6.199	6.199	(1.000)	568251	0.50000	0.500
\$ 21 Acenaphthylene-d8 (SS)	160	6.199	6.199	(0.979)	568251	0.50000	0.495
22 Acenaphthylene	152	6.211	6.211	(1.002)	3043704	2.50000	2.68
* 23 Acenaphthene-d10	164	6.330	6.330	(1.000)	322123	0.50000	0.500
24 Acenaphthene	154	6.356	6.356	(1.025)	1767843	2.50000	2.60
25 2,3,5 Trimethylnaphthalene	170	6.674	6.674	(1.124)	1572700	2.50000	2.74
\$ 26 Fluorene-d10	176	6.766	6.766	(0.892)	1629213	2.50000	2.68
27 Fluorene	166	6.788	6.788	(0.895)	2077595	2.50000	2.65
\$ 28 13C6-Fluorene	171	6.788	6.788	(0.895)	1809489	2.50000	2.67
* 34 Dibenzothiophene-d8	192	7.480	7.480	(1.000)	566078	0.50000	0.500
\$ 35 Dibenzothiophene-d8 (SS)	192	7.480	7.480	(0.841)	566078	0.50000	0.489
36 Dibenzothiophene	184	7.495	7.495	(1.002)	2774221	2.50000	2.57
* 41 Phenanthrene-d10	188	7.584	7.584	(1.000)	512096	0.50000	0.500
\$ 42 Phenanthrene-d10 (SS)	188	7.584	7.584	(0.853)	512096	0.50000	0.490
43 Phenanthrene	178	7.605	7.605	(1.003)	2889314	2.50000	2.57
* 44 Anthracene-d10	188	7.632	7.632	(1.000)	444401	0.50000	0.500
\$ 45 Anthracene-d10 (SS)	188	7.632	7.632	(0.858)	444401	0.50000	0.501
46 Anthracene	178	7.648	7.648	(1.002)	2888977	2.50000	2.54
\$ 47 13C6-Anthracene	184	7.648	7.648	(0.860)	472399	0.50000	0.494
52 1-Methylphenanthrene	192	8.150	8.150	(1.075)	1914653	2.50000	2.83
* 53 Fluoranthene-d10	212	8.672	8.672	(1.000)	477830	0.50000	0.500
\$ 54 Fluoranthene-d10 (SS)	212	8.672	8.672	(0.975)	477830	0.50000	0.489
55 Fluoranthene	202	8.689	8.689	(1.002)	2844050	2.50000	2.66
* 56 Pyrene-d10	212	8.893	8.893	(1.000)	398709	0.50000	0.500
57 Pyrene	202	8.911	8.911	(1.028)	2982312	2.50000	2.64
\$ 58 Terphenyl-d14	244	9.050	9.050	(1.044)	1366799	2.50000	2.80
* 60 Benzo(a)anthracene-d12	240	10.108	10.108	(1.000)	234441	0.50000	0.500
\$ 61 Benzo(a)anthracene-d12 (SS)	240	10.108	10.108	(1.137)	234441	0.50000	0.471
62 Benzo(a)anthracene	228	10.129	10.129	(1.002)	2105438	2.50000	2.87
* 63 Chrysene-d12	240	10.142	10.142	(1.000)	430624	0.50000	0.500
\$ 64 Chrysene-d12 (SS)	240	10.142	10.142	(1.140)	430624	0.50000	0.508
65 Chrysene	228	10.171	10.171	(1.003)	2403874	2.50000	2.55
* 70 Benzo(b)fluoranthene-d12	264	11.265	11.265	(1.000)	259509	0.50000	0.500
\$ 71 Benzo(b)fluoranthene-d12 (SS)	264	11.265	11.265	(0.973)	259509	0.50000	0.479
72 Benzo(b)fluoranthene	252	11.289	11.289	(1.002)	2012172	2.50000	2.68
* 73 Benzo(k)fluoranthene-d12	264	11.301	11.301	(1.000)	397615	0.50000	0.500
\$ 74 Benzo(k)fluoranthene-d12 (SS)	264	11.301	11.301	(0.976)	397615	0.50000	0.518
75 Benzo(k)fluoranthene	252	11.319	11.319	(1.002)	2254040	2.50000	2.59
* 76 Benzo(e)pyrene-d12	264	11.581	11.581	(1.000)	255529	0.50000	0.500
77 Benzo(e)pyrene	252	11.611	11.611	(0.997)	1969512	2.50000	2.60
* 78 Benzo(a)pyrene-d12	264	11.647	11.647	(1.000)	281457	0.50000	0.500
\$ 79 Benzo(a)pyrene-d12 (SS)	264	11.647	11.647	(1.006)	281457	0.50000	0.509
80 Benzo(a)pyrene	252	11.677	11.677	(1.003)	1847427	2.50000	2.91
* 81 Perylene-d12	264	11.749	11.749	(1.000)	282522	0.50000	0.500
\$ 82 Perylene-d12 (SS)	264	11.749	11.749	(1.014)	282522	0.50000	0.515
83 Perylene	252	11.779	11.779	(1.003)	1949136	2.50000	2.75
* 84 Indeno(123-cd)pyrene-d12	288	13.123	13.123	(1.000)	317961	0.50000	0.500

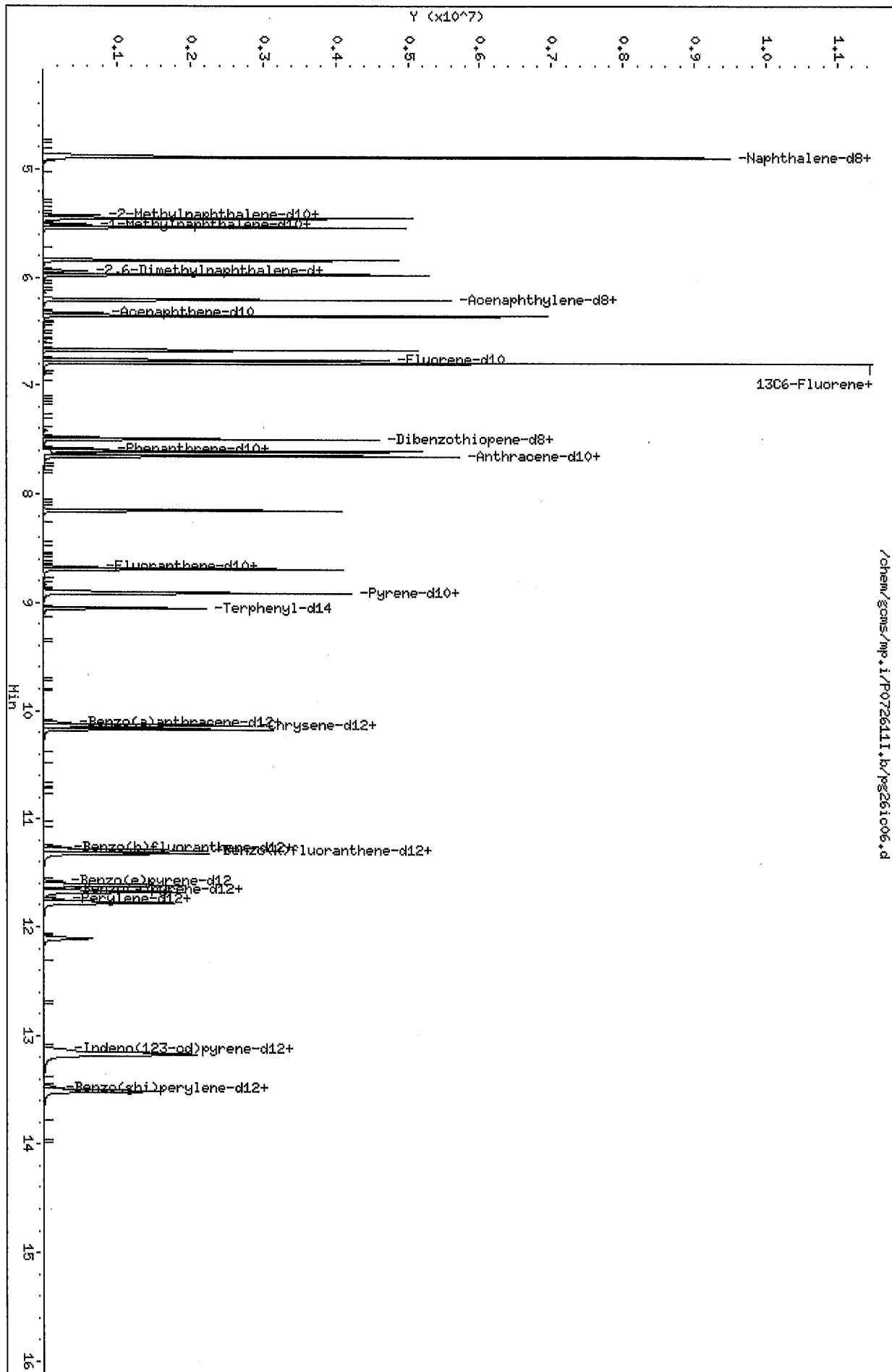
Data File: /chem/gcms/mp.i/P072611I.b/pg26ic06.d

Report Date: 26-Jul-2011 20:03

Compounds	QUANT SIG					AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)
=====	=====	==	=====	=====	=====	=====	=====
\$ 85 Indeno(123-cd)pyrene-d12(SS)	288	13.123	13.123	(1.133)	317961	0.50000	0.502
86 Indeno(1,2,3-cd)pyrene	276	13.156	13.156	(1.003)	2089771	2.50000	2.74
* 87 Dibenz(ah)anthracene-d14	292	13.127	13.127	(1.000)	242176	0.50000	0.500
\$ 88 Dibenz(ah)anthracene-d14(SS)	292	13.127	13.127	(1.133)	242176	0.50000	0.504
89 Dibenz(a,h)anthracene	278	13.173	13.173	(1.004)	1688287	2.50000	2.85
* 90 Benzo(ghi)perylene-d12	288	13.473	13.473	(1.000)	239206	0.50000	0.500
\$ 91 Benzo(ghi)perylene-d12(SS)	288	13.473	13.473	(1.163)	239206	0.50000	0.505
92 Benzo(g,h,i)perylene	276	13.507	13.507	(1.002)	1776312	2.50000	2.70

Data File: /chem/gcms/mp.i/P072611.b/pg261c06.d
 Date: 26-JUL-2011 19:51
 Client ID: PAH0361
 Sample Info: PG261C06,1,6,,PAH0361
 Purge Volume: 1.0
 Column phase: Variant: SMS

Instrument: mp.i
 Operator: 11211
 Column diameter: 0.25



Data File: /chem/gcms/mp.i/P072611I.b/pg26ic07.d
 Report Date: 26-Jul-2011 20:28

TestAmerica Knoxville

SEMIVOLATILE QUANTITATION REPORT

Data file : /chem/gcms/mp.i/P072611I.b/pg26ic07.d
 Lab Smp Id: PG26IC07 Client Smp ID: PAH0316
 Inj Date : 26-JUL-2011 20:15
 Operator : 11211 Inst ID: mp.i
 Smp Info : PG26IC07,,1,7,,PAH0316
 Misc Info : P072611I,SIMPAH3
 Comment :
 Method : /var/chem/gcms/mp.i/P072611I.b/SIMPAH3.m
 Meth Date : 26-Jul-2011 20:28 chemist Quant Type: ISTD
 Cal Date : 26-JUL-2011 20:15 Cal File: pg26ic07.d
 Als bottle: 1 Calibration Sample, Level: 7
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: pah.sub
 Target Version: 3.50
 Processing Host: qmidhp01

Concentration Formula: Amt * DF * Sf*Vt/Vo * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Sf	1.00000	Split factor
Vt	500.00000	Volume of final extract (uL)
Vo	1.00000	Volume of sample extracted (sample)

Cpnd Variable

Local Compound Variable

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
						CAL-AMT (ug/ml)	ON-COL (ug/ml)
* 1 Naphthalene-d8	136	4.876	4.876	(1.000)	707909	0.50000	0.500
\$ 2 Naphthalene-d8 (SS)	136	4.876	4.876	(0.770)	707909	0.50000	0.508
3 Naphthalene	128	4.895	4.895	(1.004)	5790870	5.00000	4.82
\$ 222 13C6-Naphthalene	134	4.895	4.895	(1.004)	5715865	5.00000	4.40
* 10 2-Methylnaphthalene-d10	152	5.430	5.430	(1.000)	382002	0.50000	0.500
\$ 11 2-Methylnaphthalene-d10 (SS)	152	5.430	5.430	(0.858)	382002	0.50000	0.508
12 2-Methylnaphthalene	142	5.457	5.457	(1.005)	3935799	5.00000	5.11
* 13 1-Methylnaphthalene-d10	152	5.510	5.510	(1.000)	371228	0.50000	0.500
\$ 14 1-Methylnaphthalene-d10 (SS)	152	5.510	5.510	(0.870)	371228	0.50000	0.497
15 1-Methylnaphthalene	142	5.540	5.540	(1.005)	3701960	5.00000	5.14
16 Biphenyl	154	5.842	5.842	(1.076)	4685750	5.00000	5.13
* 17 2,6-Dimethylnaphthalene-d12	168	5.940	5.940	(1.000)	323998	0.50000	0.500
\$ 18 2,6-Dimethylnaph-d12 (SS)	168	5.940	5.940	(0.938)	323998	0.50000	0.506
19 2,6 Dimethylnaphthalene	156	5.976	5.976	(1.006)	3380538	5.00000	5.24

Data File: /chem/gcms/mp.i/P072611I.b/pg26ic07.d

Report Date: 26-Jul-2011 20:28

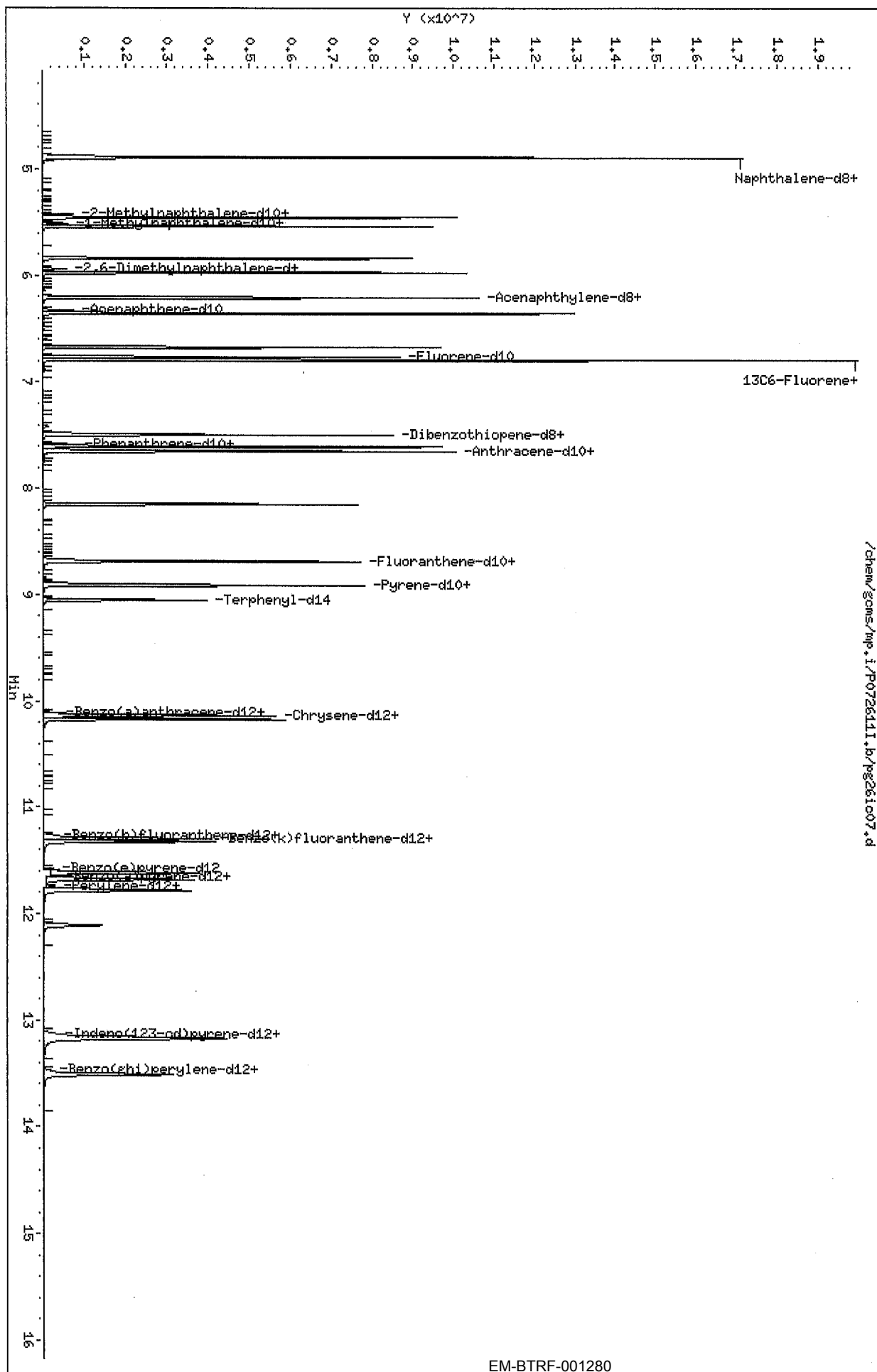
Compounds	QUANT SIG				RESPONSE	AMOUNTS	
	MASS	RT	EXP RT	REL RT		CAL-AMT (ug/ml)	ON-COL (ug/ml)
=====	=====	==	=====	=====	=====	=====	=====
* 20 Acenaphthylene-d8	160	6.199	6.199	(1.000)	539345	0.50000	0.500
\$ 21 Acenaphthylene-d8 (SS)	160	6.199	6.199	(0.979)	539345	0.50000	0.515
22 Acenaphthylene	152	6.211	6.211	(1.002)	5828550	5.00000	5.36
* 23 Acenaphthene-d10	164	6.330	6.330	(1.000)	296063	0.50000	0.500
24 Acenaphthene	154	6.356	6.356	(1.025)	3312507	5.00000	5.10
25 2,3,5 Trimethylnaphthalene	170	6.676	6.676	(1.124)	2988482	5.00000	5.55
\$ 26 Fluorene-d10	176	6.766	6.766	(0.892)	2970625	5.00000	5.25
27 Fluorene	166	6.790	6.790	(0.895)	3785134	5.00000	5.17
\$ 28 13C6-Fluorene	171	6.790	6.790	(0.895)	3208596	5.00000	5.08
* 34 Dibenzothiophene-d8	192	7.480	7.480	(1.000)	530774	0.50000	0.500
\$ 35 Dibenzothiophene-d8 (SS)	192	7.480	7.480	(0.841)	530774	0.50000	0.503
36 Dibenzothiophene	184	7.497	7.497	(1.002)	5194660	5.00000	5.13
* 41 Phenanthrene-d10	188	7.584	7.584	(1.000)	477528	0.50000	0.500
\$ 42 Phenanthrene-d10 (SS)	188	7.584	7.584	(0.853)	477528	0.50000	0.502
43 Phenanthrene	178	7.605	7.605	(1.003)	5379641	5.00000	5.13
* 44 Anthracene-d10	188	7.632	7.632	(1.000)	426995	0.50000	0.500
\$ 45 Anthracene-d10 (SS)	188	7.632	7.632	(0.858)	426997	0.50000	0.532
46 Anthracene	178	7.650	7.650	(1.002)	5468914	5.00000	4.98
\$ 47 13C6-Anthracene	184	7.648	7.648	(0.860)	442968	0.50000	0.509
52 1-Methylphenanthrene	192	8.150	8.150	(1.075)	3649450	5.00000	5.79
* 53 Fluoranthene-d10	212	8.671	8.671	(1.000)	443720	0.50000	0.500
\$ 54 Fluoranthene-d10 (SS)	212	8.671	8.671	(0.975)	443720	0.50000	0.501
55 Fluoranthene	202	8.691	8.691	(1.002)	5389604	5.00000	5.40
* 56 Pyrene-d10	212	8.895	8.895	(1.000)	361184	0.50000	0.500
57 Pyrene	202	8.912	8.912	(1.028)	5600248	5.00000	5.30
\$ 58 Terphenyl-d14	244	9.051	9.051	(1.044)	2500181	5.00000	5.50
* 60 Benzo(a)anthracene-d12	240	10.108	10.108	(1.000)	222039	0.50000	0.500
\$ 61 Benzo(a)anthracene-d12 (SS)	240	10.108	10.108	(1.136)	222039	0.50000	0.504
62 Benzo(a)anthracene	228	10.133	10.133	(1.002)	4106177	5.00000	5.78
* 63 Chrysene-d12	240	10.141	10.141	(1.000)	401378	0.50000	0.500
\$ 64 Chrysene-d12 (SS)	240	10.141	10.141	(1.140)	401378	0.50000	0.519
65 Chrysene	228	10.171	10.171	(1.003)	4446848	5.00000	5.08
* 70 Benzo(b)fluoranthene-d12	264	11.264	11.264	(1.000)	238600	0.50000	0.500
\$ 71 Benzo(b)fluoranthene-d12 (SS)	264	11.264	11.264	(0.973)	238600	0.50000	0.484
72 Benzo(b)fluoranthene	252	11.294	11.294	(1.003)	3788908	5.00000	5.40
* 73 Benzo(k)fluoranthene-d12	264	11.300	11.300	(1.000)	373799	0.50000	0.500
\$ 74 Benzo(k)fluoranthene-d12 (SS)	264	11.300	11.300	(0.976)	373799	0.50000	0.532
75 Benzo(k)fluoranthene	252	11.324	11.324	(1.002)	4334026	5.00000	5.30
* 76 Benzo(e)pyrene-d12	264	11.581	11.581	(1.000)	233662	0.50000	0.500
77 Benzo(e)pyrene	252	11.617	11.617	(0.997)	3721803	5.00000	5.05
* 78 Benzo(a)pyrene-d12	264	11.653	11.653	(1.000)	271423	0.50000	0.500
\$ 79 Benzo(a)pyrene-d12 (SS)	264	11.653	11.653	(1.006)	271423	0.50000	0.539
80 Benzo(a)pyrene	252	11.677	11.677	(1.002)	3483733	5.00000	5.66
* 81 Perylene-d12	264	11.748	11.748	(1.000)	272600	0.50000	0.500
\$ 82 Perylene-d12 (SS)	264	11.748	11.748	(1.014)	272600	0.50000	0.542
83 Perylene	252	11.778	11.778	(1.003)	3748392	5.00000	5.46
* 84 Indeno(123-cd)pyrene-d12	288	13.126	13.126	(1.000)	298069	0.50000	0.500

Data File: /chem/gcms/mp.i/P072611I.b/pg26ic07.d
 Report Date: 26-Jul-2011 20:28

Compounds	QUANT SIG			AMOUNTS			
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)
=====	=====	==	=====	=====	=====	=====	=====
\$ 85 Indeno(123-cd)pyrene-d12 (SS)	288	13.126	13.126	(1.133)	298069	0.50000	0.518
86 Indeno(1,2,3-cd)pyrene	276	13.160	13.160	(1.003)	4042952	5.00000	5.60
* 87 Dibenz(ah)anthracene-d14	292	13.131	13.131	(1.000)	228306	0.50000	0.500
\$ 88 Dibenz(ah)anthracene-d14 (SS)	292	13.131	13.131	(1.134)	228306	0.50000	0.521
89 Dibenz(a,h)anthracene	278	13.173	13.173	(1.003)	3275291	5.00000	5.84
* 90 Benzo(ghi)perylene-d12	288	13.472	13.472	(1.000)	223483	0.50000	0.500
\$ 91 Benzo(ghi)perylene-d12 (SS)	288	13.472	13.472	(1.163)	223483	0.50000	0.517
92 Benzo(g,h,i)perylene	276	13.510	13.510	(1.003)	3428395	5.00000	5.54

Data File: /chem/gcms/mp.i/P072611.b/p261c07.d
 Date: 26-JUL-2011 20:15
 Client ID: PAH0316
 Sample Info: P261C07,1,7,PAH0316
 Purge Volume: 1.0
 Column phase: Varian: SMS

Instrument: mp.i
 Operator: 11211
 Column diameter: 0.25



Data File: /chem/gcms/mp.i/P072611I.b/pg26icv.d
Report Date: 26-Jul-2011 21:18

TestAmerica Knoxville

SEMIVOLATILE QUANTITATION REPORT

Data file : /chem/gcms/mp.i/P072611I.b/pg26icv.d
Lab Smp Id: PG26ICV
Inj Date : 26-JUL-2011 21:04
Operator : 11211
Smp Info : PG26ICV,,3,,PAH0309
Misc Info : P072611I,SIMPAH3
Comment :
Method : /var/chem/gcms/mp.i/P072611I.b/SIMPAH3.m
Meth Date : 26-Jul-2011 20:28 chemist
Cal Date : 26-JUL-2011 20:15
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE
Target Version: 3.50
Processing Host: qmidhp01

Inst ID: mp.i
Quant Type: ISTD
Cal File: pg26ic07.d
QC Sample: PAH0309
Compound Sublist: pah.sub

Concentration Formula: $\text{Amt} * \text{DF} * \text{Sf} * \text{Vt} / \text{Vo} * \text{CpndVariable}$

Name	Value	Description
DF	1.00000	Dilution Factor
Sf	1.00000	Split factor
Vt	500.00000	Volume of final extract (uL)
Vo	1.00000	Volume of sample extracted (sample)

Cpnd Variable

Local Compound Variable

Compounds	QUANT SIG	MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN (ug/ml)	FINAL (ng/sample)
* 1 Naphthalene-d8	136	4.872	4.876	(1.000)	699337	0.50000	0.500	
\$ 2 Naphthalene-d8 (SS)	136	4.872	4.876	(0.770)	699337	0.49747	249	
3 Naphthalene	128	4.887	4.895	(1.003)	620547	0.52285	261	
\$ 222 13C6-Naphthalene	134	4.872	4.895	(1.000)	62538	0.04869	24.3 (R)	
* 10 2-Methylnaphthalene-d10	152	5.430	5.430	(1.000)	390973	0.50000	0.500	
\$ 11 2-Methylnaphthalene-d10 (SS)	152	5.430	5.430	(0.858)	390973	0.51543	258	
12 2-Methylnaphthalene	142	5.454	5.457	(1.004)	401385	0.50960	255	
* 13 1-Methylnaphthalene-d10	152	5.510	5.510	(1.000)	382234	0.50000	0.500	
\$ 14 1-Methylnaphthalene-d10 (SS)	152	5.510	5.510	(0.870)	382234	0.50695	253	
15 1-Methylnaphthalene	142	5.540	5.540	(1.005)	396015	0.53398	267	
16 Biphenyl	154	5.842	5.842	(1.076)	468547	0.50089	250	
* 17 2,6-Dimethylnaphthalene-d12	168	5.940	5.940	(1.000)	322796	0.50000	0.500	
\$ 18 2,6-Dimethylnaph-d12 (SS)	168	5.940	5.940	(0.938)	322796	0.49886	249	
19 2,6 Dimethylnaphthalene	156	5.976	5.976	(1.006)	327530	0.50910	255	

Data File: /chem/gcms/mp.i/P072611I.b/pg26icv.d
Report Date: 26-Jul-2011 21:18

						CONCENTRATIONS	
QUANT SIG						ON-COLUMN	FINAL
Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/ml)	(ng/sample)
=====	=====	==	=====	=====	=====	=====	=====
* 20 Acenaphthylene-d8	160	6.199	6.199	(1.000)	517667	0.50000	0.500
\$ 21 Acenaphthylene-d8 (SS)	160	6.199	6.199	(0.979)	517667	0.48948	245
22 Acenaphthylene	152	6.210	6.211	(1.002)	529836	0.50767	254
* 23 Acenaphthene-d10	164	6.330	6.330	(1.000)	298906	0.50000	0.500
24 Acenaphthene	154	6.356	6.356	(1.025)	334779	0.53709	269
25 2,3,5 Trimethylnaphthalene	170	6.676	6.676	(1.124)	277761	0.51760	259
\$ 26 Fluorene-d10	176	6.768	6.766	(0.892)	342	0.000621	0.310 (R)
27 Fluorene	166	6.790	6.790	(0.895)	364818	0.51105	256
\$ 28 13C6-Fluorene	171	6.788	6.790	(0.895)	307	0.000499	0.249 (R)
* 34 Dibenzothiopene-d8	192	7.480	7.480	(1.000)	511342	0.50000	0.500
\$ 35 Dibenzothiopene-d8 (SS)	192	7.480	7.480	(0.841)	511342	0.50429	252
36 Dibenzothiophene	184	7.497	7.497	(1.002)	506307	0.51909	260
* 41 Phenanthrene-d10	188	7.584	7.584	(1.000)	465622	0.50000	0.500
\$ 42 Phenanthrene-d10 (SS)	188	7.584	7.584	(0.853)	465622	0.50897	254
43 Phenanthrene	178	7.605	7.605	(1.003)	550847	0.53883	269
* 44 Anthracene-d10	188	7.634	7.632	(1.000)	365586	0.50000	0.500
\$ 45 Anthracene-d10 (SS)	188	7.634	7.632	(0.858)	365586	0.47325	237
46 Anthracene	178	7.648	7.650	(1.002)	464942	0.49423	247
\$ 47 13C6-Anthracene	184	7.648	7.648	(0.860)	437777	0.52282	261
52 1-Methylphenanthrene	192	8.150	8.150	(1.075)	326085	0.53102	266
* 53 Fluoranthene-d10	212	8.672	8.671	(1.000)	429833	0.50000	0.500
\$ 54 Fluoranthene-d10 (SS)	212	8.672	8.671	(0.975)	429833	0.50447	252
55 Fluoranthene	202	8.689	8.691	(1.002)	510092	0.52742	264
* 56 Pyrene-d10	212	8.893	8.895	(1.000)	347340	0.50000	0.500
57 Pyrene	202	8.910	8.912	(1.028)	530632	0.51882	259
\$ 58 Terphenyl-d14	244	9.060	9.051	(1.045)	201	0.000458	0.229 (R)
* 60 Benzo (a) anthracene-d12	240	10.108	10.108	(1.000)	201163	0.50000	0.500
\$ 61 Benzo (a) anthracene-d12 (SS)	240	10.108	10.108	(1.137)	201163	0.47482	237
62 Benzo (a) anthracene	228	10.129	10.133	(1.002)	330320	0.51360	257
* 63 Chrysene-d12	240	10.141	10.141	(1.000)	380403	0.50000	0.500
\$ 64 Chrysene-d12 (SS)	240	10.141	10.141	(1.140)	380411	0.51180	256
65 Chrysene	228	10.171	10.171	(1.003)	437163	0.52644	263
* 70 Benzo (b) fluoranthene-d12	264	11.265	11.264	(1.000)	234905	0.50000	0.500
\$ 71 Benzo (b) fluoranthene-d12 (SS)	264	11.265	11.264	(0.973)	234905	0.50143	251
72 Benzo (b) fluoranthene	252	11.289	11.294	(1.002)	375002	0.54336	272
* 73 Benzo (k) fluoranthene-d12	264	11.294	11.300	(1.000)	336975	0.50000	0.500
\$ 74 Benzo (k) fluoranthene-d12 (SS)	264	11.294	11.300	(0.975)	336975	0.50400	252
75 Benzo (k) fluoranthene	252	11.318	11.324	(1.002)	389917	0.52850	264
* 76 Benzo (e) pyrene-d12	264	11.581	11.581	(1.000)	222146	0.50000	0.500
77 Benzo (e) pyrene	252	11.611	11.617	(0.997)	348168	0.54425	272
* 78 Benzo (a) pyrene-d12	264	11.647	11.653	(1.000)	235426	0.50000	0.500
\$ 79 Benzo (a) pyrene-d12 (SS)	264	11.647	11.653	(1.006)	235426	0.49150	246
80 Benzo (a) pyrene	252	11.677	11.677	(1.003)	281631	0.52712	264
* 81 Perylene-d12	264	11.743	11.748	(1.000)	237960	0.50000	0.500
\$ 82 Perylene-d12 (SS)	264	11.743	11.748	(1.014)	237960	0.49810	249
83 Perylene	252	11.773	11.778	(1.003)	315472	0.52614	263
* 84 Indeno (123-cd) pyrene-d12	288	13.123	13.126	(1.000)	261485	0.50000	0.500

Data File: /chem/gcms/mp.i/P072611I.b/pg26icv.d
 Report Date: 26-Jul-2011 21:18

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN	FINAL
	MASS					(ug/ml)	(ng/sample)
=====	=====	==	=====	=====	=====	=====	=====
\$ 85 Indeno(123-cd)pyrene-d12 (SS)	288	13.123	13.126	(1.133)	261485	0.47772	239
86 Indeno(1,2,3-cd)pyrene	276	13.156	13.160	(1.003)	325217	0.51378	257
* 87 Dibenz(ah)anthracene-d14	292	13.127	13.131	(1.000)	200079	0.50000	0.500
\$ 88 Dibenz(ah)anthracene-d14 (SS)	292	13.127	13.131	(1.133)	200079	0.47990	240
89 Dibenz(a,h)anthracene	278	13.173	13.173	(1.004)	266794	0.54297	271
* 90 Benzo(ghi)perylene-d12	288	13.473	13.472	(1.000)	201673	0.50000	0.500
\$ 91 Benzo(ghi)perylene-d12 (SS)	288	13.473	13.472	(1.163)	201673	0.49027	245
92 Benzo(g,h,i)perylene	276	13.507	13.510	(1.002)	292622	0.52417	262

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

Data File: /var/chem/gcms/mp.i/P072611I.b/pg26icv.d
 Report Date: 01-Aug-2011 09:22

TestAmerica Knoxville

RECOVERY REPORT

Client Name: ITSBUR Client SDG: P072611I
 Sample Matrix: GAS Fraction: SV
 Lab Smp Id: PG26ICV
 Level: LOW Operator: 11211
 Data Type: MS DATA SampleType: PAH0309
 SpikeList File: icv.spk Quant Type: ISTD
 Sublist File: pah.sub
 Method File: /var/chem/gcms/mp.i/P072611I.b/SIMPAH3.m
 Misc Info: P072611I,SIMPAH3

SPIKE COMPOUND	CONC ADDED ng/sample	CONC RECOVERED ng/sample	% RECOVERED	LIMITS
3 Naphthalene	250	261	104.57	70-130
12 2-Methylnaphthalen	250	255	101.92	70-130
15 1-Methylnaphthalen	250	267	106.80	70-130
16 Biphenyl	250	250	100.18	70-130
19 2,6 Dimethylnaphth	250	255	101.82	70-130
22 Acenaphthylene	250	254	101.53	70-130
24 Acenaphthene	250	269	107.42	70-130
25 2,3,5 Trimethylnap	250	259	103.52	70-130
27 Fluorene	250	256	102.21	70-130
36 Dibenzothiophene	250	260	103.82	70-130
43 Phenanthrene	250	269	107.77	70-130
46 Anthracene	250	247	98.85	70-130
52 1-Methylphenanthre	250	266	106.20	70-130
55 Fluoranthene	250	264	105.48	70-130
57 Pyrene	250	259	103.76	70-130
62 Benzo(a)anthracene	250	257	102.72	70-130
65 Chrysene	250	263	105.29	70-130
72 Benzo(b)fluoranth	250	272	108.67	70-130
75 Benzo(k)fluoranth	250	264	105.70	70-130
77 Benzo(e)pyrene	250	272	108.85	70-130
80 Benzo(a)pyrene	250	264	105.42	70-130
83 Perylene	250	263	105.23	70-130
86 Indeno(1,2,3-cd)py	250	257	102.76	70-130
89 Dibenz(a,h)anthrac	250	271	108.60	70-130
92 Benzo(g,h,i)peryle	250	262	104.83	70-130

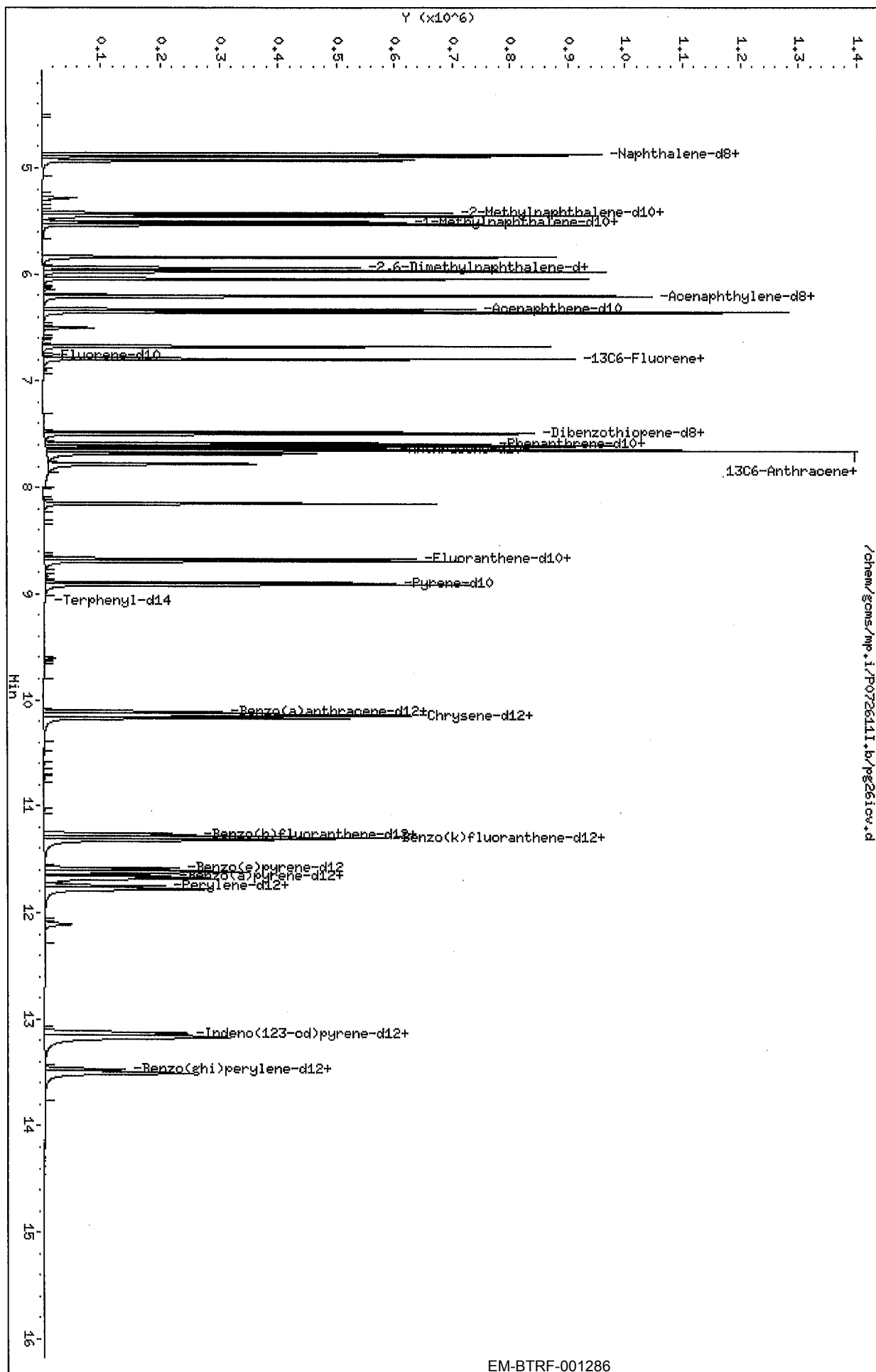
SURROGATE COMPOUND	CONC ADDED ng/sample	CONC RECOVERED ng/sample	% RECOVERED	LIMITS
\$ 2 Naphthalene-d8 (SS)	250	249	99.49	30-120

Data File: /var/chem/gcms/mp.i/P072611I.b/pg26icv.d
 Report Date: 01-Aug-2011 09:22

SURROGATE COMPOUND	CONC ADDED ng/sample	CONC RECOVERED ng/sample	% RECOVERED	LIMITS
\$ 222 13C6-Naphthalene	250	24.3	9.74*	50-150
\$ 11 2-Methylnaphthalen	250	258	103.09	30-120
\$ 14 1-Methylnaphthalen	250	253	101.39	30-120
\$ 18 2,6-Dimethylnaph-d	250	249	99.77	30-120
\$ 21 Acenaphthylene-d8 (	250	245	97.90	30-120
\$ 26 Fluorene-d10	250	0.310	0.12*	30-120
\$ 28 13C6-Fluorene	250	0.249	0.10*	30-120
\$ 35 Dibenzothiopene-d8	250	252	100.86	30-120
\$ 42 Phenanthrene-d10 (S	250	254	101.79	30-120
\$ 45 Anthracene-d10 (SS)	250	237	94.65	30-120
\$ 47 13C6-Anthracene	250	261	104.56	30-120
\$ 54 Fluoranthene-d10 (S	250	252	100.89	0-120
\$ 58 Terphenyl-d14	250	0.228	0.09*	30-120
\$ 61 Benzo (a) anthracene	250	237	94.97	30-120
\$ 64 Chrysene-d12 (SS)	250	256	102.36	30-120
\$ 71 Benzo (b) fluoranthe	250	251	100.29	30-120
\$ 74 Benzo (k) fluoranthe	250	252	100.80	30-120
\$ 79 Benzo (a) pyrene-d12	250	246	98.30	30-120
\$ 82 Perylene-d12 (SS)	250	249	99.62	30-120
\$ 85 Indeno (123-cd) pyre	250	239	95.54	30-120
\$ 88 Dibenz (ah) anthrace	250	240	95.98	30-120
\$ 91 Benzo (ghi) perylene	250	245	98.05	30-120

Data File: /chem/gcms/mp.i/P0726411.b/pg261cv.d
 Date: 26-JUL-2014 21:04
 Client ID:
 Sample Info: PG261CV,,3,PAH0309
 Purge Volume: 1.0
 Column phase: Variant SMS

Instrument: mp.i
 Operator: 11214
 Column diameter: 0.25



TestAmerica Knoxville GC/MS-SIM Continuing Calibration Review / Narrative Checklist
Method: LPPAH PAHs and Selected SVOCs - KNOX-ID-0016, Revision 8

Analysis Date:	7/29/11	CCAL Batch/ Scan Name:	P072911	Instrument:	MP	ICAL Batch/ Scan Name:	P072611 I	Scanned <input type="checkbox"/>
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A. Review Items	N/A	Yes	No	Why is data reportable?	2nd ✓
1. Were all injections in sequence within 12 hr of CCAL?		✓			✓
2. Was date/time of analysis verified between header and logbook?		✓			✓
3. Are peak integrations appropriate?		✓			✓
4. Is the %D or drift <30% for all analytes		✓			✓
5. Are the recovery standards within 50-200% of the ICAL CS4 level?		✓			✓
6. Are the MID descriptors properly set?		✓			✓
7. Are correct RFs listed in CCAL summary?		✓			✓
8. Was the correct ICAL used for quantitation? (Verify 1 RF.)		✓			✓
9. Elution order checked on isomeric pairs/coeluters?					
• 2-methylnaphthalene before 1-methylnaphthalene (& d10 isomers)		✓			✓
• acenaphthylene before acenaphthene (& d10 isomers)		✓			✓
• dibenzothiophene before anthracene		✓			✓
• phenanthrene before anthracene (& d10 isomers)		✓			✓
• fluoranthene before pyrene (& d10 isomers)		✓			✓
• benzo(a)anthracene before chrysene (& d12 isomers)		✓			✓
• benzo(b)fluoranthene before benzo(k)fluoranthene (& d12 isomers)		✓			✓
• benzo(e)pyrene before benzo(a)pyrene		✓			✓
• benzo(a)pyrene before perylene (& d12 isomers)		✓			✓
• Indeno(1,2,3-cd)pyrene before benzo(g,h,i)perylene (& d12 isomers)		✓			✓
10. Were the first/last RTs for each alkyl PAH homologue group properly identified and indicated on the chromatogram?	✓				N/A
11. If criteria were not met, was a NCM generated and approved by supervisor?	✓				N/A
12. Does the CCAL folder contain complete data in the following order? CCAL data review checklist, runlog, Target Continuing Calibration Report, followed by the quan report and chromatograms for the CCAL and window standard.		✓			✓

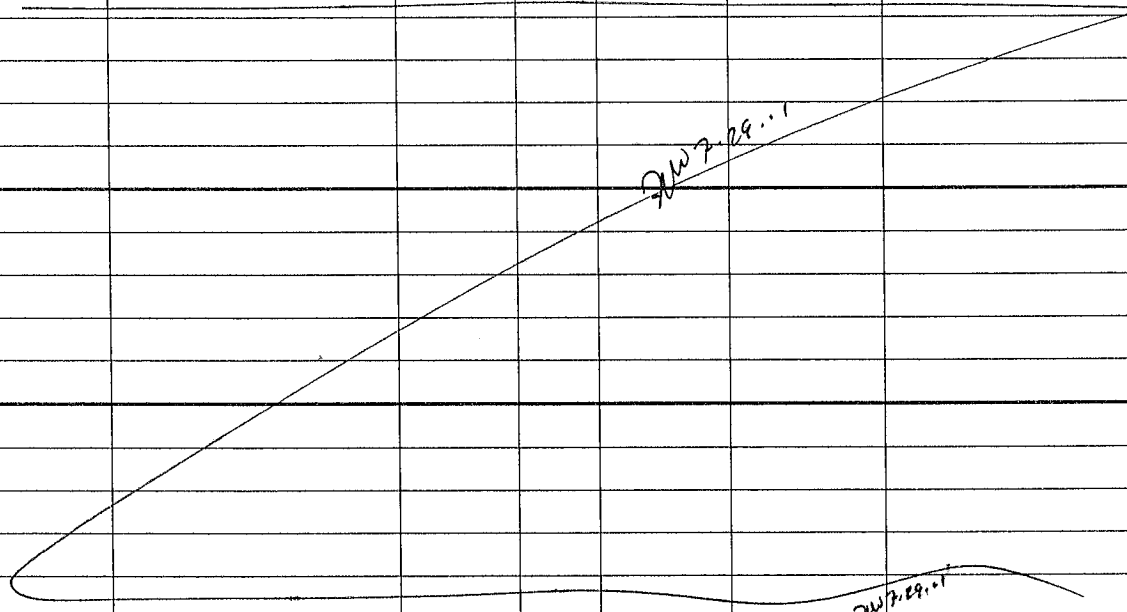
[illegible]

TestAmerica Knoxville Instrument MP Run/Maintenance Log

95

Date/Time Verified ☒Preventive Maintenance Performed: ☐ septa ☐ liner ☐ seal ☐ clip column ☐ SPME fiber ☐ other: see below / maint. log

Target Batch	P072911			Date	7/29/11
ICAL Batch	P072611I			Analyst	DW
Method	<input checked="" type="checkbox"/> KNOX-ID-0016	<input type="checkbox"/> KNOX-ID-0018	<input type="checkbox"/>	IS ID & vol.	N/A

Lot	Filename	Time	Dil.	Matrix	Batch	Comments
IB	PG29 HEX	1059	-	HEXANE	-	
CCV	PG29 CCV	1123	-	PAH0362	-	
BLK	MK2D01AA	1148		Air	1201679	
LCS	↓ C	1212				
LCS	↓ D	1237				
HIG190403	MK09V1AC	1301				
↓	↓ T	1326				
HIG200446	MK2H6	1351				
↓	↓ 2	1415				? matrix? re dil or reheat (#)
↓	↓ W	1440				
↓	↓ O	1540				time = 1504
↓	↓ I	1529				
HIG190403	MK09P	1554				7/29/11 Hatched several E
↓	↓ Q	1619				" "
↓	↓ R	1643				" "
						

Comments: (X) MK2H2IAC: prep had issues w/ this extract... could only concentrate to 1.5 mL

Data File: /chem/gcms/mp.i/P072911.b/pg29ccv.d

Report Date: 29-Jul-2011 11:36

TestAmerica Knoxville

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: mp.i Injection Date: 29-JUL-2011 11:23
 Lab File ID: pg29ccv.d Init. Cal. Date(s): 26-JUL-2011 26-JUL-2011
 Analysis Type: AIR Init. Cal. Times: 17:47 20:15
 Lab Sample ID: PG29CCV Quant Type: ISTD
 Method: /var/chem/gcms/mp.i/P072911.b/SIMPAH3.m

COMPOUND	RRF / AMOUNT	RF0.500	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
\$ 2 Naphthalene-d8(SS)	2.35155	2.31263	0.000	1.65519	30.00000	Averaged
3 Naphthalene	0.84855	0.86356	0.000	-1.76873	30.00000	Averaged
\$ 222 13C6-Naphthalene	0.91838	0.94362	0.000	-2.74814	30.00000	Averaged
\$ 11 2-Methylnaphthalene-d10(SS)	1.26886	1.25961	0.000	0.72937	30.00000	Averaged
12 2-Methylnaphthalene	1.00729	1.01607	0.000	-0.87107	30.00000	Averaged
\$ 14 1-Methylnaphthalene-d10(SS)	1.26125	1.24312	0.000	1.43726	30.00000	Averaged
15 1-Methylnaphthalene	0.97012	0.99093	0.000	-2.14516	30.00000	Averaged
16 Biphenyl	1.19629	1.22317	0.000	-2.24721	30.00000	Averaged
\$ 18 2,6-Dimethylnaph-d12(SS)	1.08239	1.08378	0.000	-0.12813	30.00000	Averaged
19 2,6 Dimethylnaphthalene	0.99652	1.01675	0.000	-2.02995	30.00000	Averaged
\$ 21 Acenaphthylene-d8(SS)	1.76910	1.94068	0.000	-9.69868	30.00000	Averaged
22 Acenaphthylene	1.00805	0.96268	0.000	4.50056	30.00000	Averaged
24 Acenaphthene	0.60205	0.55613	0.000	7.62708	30.00000	Averaged
25 2,3,5 Trimethylnaphthalene	0.83123	0.87886	0.000	-5.73036	30.00000	Averaged
\$ 26 Fluorene-d10	0.59281	0.61710	0.000	-4.09797	30.00000	Averaged
27 Fluorene	0.76656	0.80840	0.000	-5.45760	30.00000	Averaged
\$ 28 13C6-Fluorene	0.66162	0.69680	0.000	-5.31688	30.00000	Averaged
\$ 35 Dibenzothiophene-d8(SS)	1.45965	1.38616	0.000	5.03462	30.00000	Averaged
36 Dibenzothiophene	0.95374	0.95377	0.000	-0.00263	30.00000	Averaged
\$ 42 Phenanthrene-d10(SS)	1.31690	1.24819	0.000	5.21780	30.00000	Averaged
43 Phenanthrene	1.09779	1.09767	0.000	0.01080	30.00000	Averaged
\$ 45 Anthracene-d10(SS)	1.11203	1.12414	0.000	-1.08971	30.00000	Averaged
46 Anthracene	1.28663	1.22960	0.000	4.43236	30.00000	Averaged
\$ 47 13C6-Anthracene	1.20536	1.19451	0.000	0.90033	30.00000	Averaged
52 1-Methylphenanthrene	0.65941	0.70855	0.000	-7.45248	30.00000	Averaged
\$ 54 Fluoranthene-d10(SS)	1.22654	1.25078	0.000	-1.97607	30.00000	Averaged
55 Fluoranthene	1.12502	1.08656	0.000	3.41827	30.00000	Averaged
57 Pyrene	1.18972	1.13940	0.000	4.22953	30.00000	Averaged
\$ 58 Terphenyl-d14	0.51230	0.52340	0.000	-2.16644	30.00000	Averaged
\$ 61 Benzo(a)anthracene-d12(SS)	0.60986	0.77213	0.000	-26.60867	30.00000	Averaged
62 Benzo(a)anthracene	1.59858	1.32670	0.000	17.00799	30.00000	Averaged
\$ 64 Chrysene-d12(SS)	1.06996	0.99692	0.000	6.82626	30.00000	Averaged
65 Chrysene	1.09148	1.15122	0.000	-5.47282	30.00000	Averaged
\$ 71 Benzo(b)fluoranthene-d12(SS)	1.05442	1.19043	0.000	-12.89911	30.00000	Averaged
72 Benzo(b)fluoranthene	1.46901	1.27027	0.000	13.52870	30.00000	Averaged
\$ 74 Benzo(k)fluoranthene-d12(SS)	1.50487	1.42914	0.000	5.03242	30.00000	Averaged

Data File: /chem/gcms/mp.i/P072911.b/pg29ccv.d
 Report Date: 29-Jul-2011 11:36

TestAmerica Knoxville

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: mp.i Injection Date: 29-JUL-2011 11:23
 Lab File ID: pg29ccv.d Init. Cal. Date(s): 26-JUL-2011 26-JUL-2011
 Analysis Type: AIR Init. Cal. Times: 17:47 20:15
 Lab Sample ID: PG29CCV Quant Type: ISTD
 Method: /var/chem/gcms/mp.i/P072911.b/SIMPAH3.m

COMPOUND	RRF / AMOUNT	RF0.500	MIN RRF	MAX %D / %DRIFT	CURVE TYPE
75 Benzo(k)fluoranthene	1.09471	1.13260	0.000	-3.46137	Averaged
77 Benzo(e)pyrene	1.35865	1.17534	0.000	13.49212	Averaged
\$ 79 Benzo(a)pyrene-d12 (SS)	1.07810	1.20275	0.000	-11.56170	Averaged
80 Benzo(a)pyrene	1.13472	1.07340	0.000	5.40392	Averaged
\$ 82 Perylene-d12 (SS)	1.07526	1.05898	0.000	1.51451	Averaged
83 Perylene	1.25988	1.28695	0.000	-2.14838	Averaged
\$ 85 Indeno(123-cd)pyrene-d12 (SS)	1.23197	1.30440	0.000	-5.87902	Averaged
86 Indeno(1,2,3-cd)pyrene	1.21037	1.12669	0.000	6.91335	Averaged
\$ 88 Dibenz(ah)anthracene-d14 (SS)	0.93839	0.97304	0.000	-3.69294	Averaged
89 Dibenz(a,h)anthracene	1.22790	1.20295	0.000	2.03204	Averaged
\$ 91 Benzo(ghi)perylene-d12 (SS)	0.92586	0.92321	0.000	0.28608	Averaged
92 Benzo(g,h,i)perylene	1.38406	1.36271	0.000	1.54211	Averaged

Data File: /chem/gcms/mp.i/P072911.b/pg29ccv.d
 Report Date: 29-Jul-2011 11:36

TestAmerica Knoxville

SEMIVOLATILE QUANTITATION REPORT

Data file : /chem/gcms/mp.i/P072911.b/pg29ccv.d
 Lab Smp Id: PG29CCV Client Smp ID: PAH0362
 Inj Date : 29-JUL-2011 11:23
 Operator : 60487 Inst ID: mp.i
 Smp Info : PG29CCV,,2,4,,PAH0362
 Misc Info : P072911,SIMPAH3
 Comment :
 Method : /var/chem/gcms/mp.i/P072911.b/SIMPAH3.m
 Meth Date : 29-Jul-2011 11:36 chemist Quant Type: ISTD
 Cal Date : 26-JUL-2011 20:15 Cal File: pg26ic07.d
 Als bottle: 1 Continuing Calibration Sample
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: pah.sub
 Target Version: 3.50
 Processing Host: qmidhp01

Concentration Formula: $\text{Amt} * \text{DF} * \text{Sf} * \text{Vt} / \text{Vo} * \text{CpndVariable}$

Name	Value	Description
DF	1.00000	Dilution Factor
Sf	1.00000	Split factor
Vt	500.00000	Volume of final extract (uL)
Vo	1.00000	Volume of sample extracted (sample)

Cpnd Variable

Local Compound Variable

Compounds	QUANT SIG	MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
							CAL-AMT (ug/ml)	ON-COL (ug/ml)
* 1 Naphthalene-d8		136	4.865	4.865	(1.000)	729166	0.50000	0.500
\$ 2 Naphthalene-d8 (SS)		136	4.865	4.865	(0.769)	729166	0.50000	0.492
3 Naphthalene		128	4.880	4.880	(1.003)	629677	0.50000	0.509
\$ 222 13C6-Naphthalene		134	4.880	4.880	(1.003)	688053	0.50000	0.514
* 10 2-Methylnaphthalene-d10		152	5.424	5.424	(1.000)	397150	0.50000	0.500
\$ 11 2-Methylnaphthalene-d10 (SS)		152	5.424	5.424	(0.858)	397150	0.50000	0.496
12 2-Methylnaphthalene		142	5.450	5.450	(1.005)	403532	0.50000	0.504
* 13 1-Methylnaphthalene-d10		152	5.503	5.503	(1.000)	391954	0.50000	0.500
\$ 14 1-Methylnaphthalene-d10 (SS)		152	5.503	5.503	(0.870)	391954	0.50000	0.493
15 1-Methylnaphthalene		142	5.533	5.533	(1.005)	388397	0.50000	0.511
16 Biphenyl		154	5.835	5.835	(1.076)	485782	0.50000	0.511
* 17 2,6-Dimethylnaphthalene-d12		168	5.933	5.933	(1.000)	341712	0.50000	0.500
\$ 18 2,6-Dimethylnaph-d12 (SS)		168	5.933	5.933	(0.938)	341712	0.50000	0.501
19 2,6 Dimethylnaphthalene		156	5.969	5.969	(1.006)	347437	0.50000	0.510

Data File: /chem/gcms/mp.i/P072911.b/pg29ccv.d
Report Date: 29-Jul-2011 11:36

Compounds	QUANT SIG			AMOUNTS			
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)
=====	=====	==	=====	=====	=====	=====	=====
* 20 Acenaphthylene-d8	160	6.194	6.194	(1.000)	611890	0.50000	0.500
\$ 21 Acenaphthylene-d8 (SS)	160	6.194	6.194	(0.979)	611890	0.50000	0.548
22 Acenaphthylene	152	6.202	6.202	(1.001)	589055	0.50000	0.477
* 23 Acenaphthene-d10	164	6.325	6.325	(1.000)	315297	0.50000	0.500
24 Acenaphthene	154	6.350	6.350	(1.025)	340293 ✓	0.50000	0.462
25 2,3,5 Trimethylnaphthalene	170	6.669	6.669	(1.124)	300318	0.50000	0.529
\$ 26 Fluorene-d10	176	6.758	6.758	(0.892)	309331	0.50000	0.520
27 Fluorene	166	6.783	6.783	(0.895)	405224	0.50000	0.527
\$ 28 13C6-Fluorene	171	6.781	6.781	(0.895)	349283	0.50000	0.527
* 34 Dibenzothiophene-d8	192	7.474	7.474	(1.000)	556677	0.50000	0.500
\$ 35 Dibenzothiophene-d8 (SS)	192	7.474	7.474	(0.841)	556677	0.50000	0.475
36 Dibenzothiophene	184	7.489	7.489	(1.002)	530940	0.50000	0.500
* 41 Phenanthrene-d10	188	7.578	7.578	(1.000)	501268	0.50000	0.500
\$ 42 Phenanthrene-d10 (SS)	188	7.578	7.578	(0.853)	501268	0.50000	0.474
43 Phenanthrene	178	7.597	7.597	(1.002)	550226	0.50000	0.500
* 44 Anthracene-d10	188	7.626	7.626	(1.000)	451451	0.50000	0.500
\$ 45 Anthracene-d10 (SS)	188	7.626	7.626	(0.858)	451451	0.50000	0.505
46 Anthracene	178	7.642	7.642	(1.002)	555106	0.50000	0.478
\$ 47 13C6-Anthracene	184	7.642	7.642	(0.860)	479711	0.50000	0.495
52 1-Methylphenanthrene	192	8.143	8.143	(1.075)	355174	0.50000	0.537
* 53 Fluoranthene-d10	212	8.665	8.665	(1.000)	502307	0.50000	0.500
\$ 54 Fluoranthene-d10 (SS)	212	8.665	8.665	(0.975)	502307	0.50000	0.510
55 Fluoranthene	202	8.683	8.683	(1.002)	545788	0.50000	0.483
* 56 Pyrene-d10	212	8.885	8.885	(1.000)	401596 ✓	0.50000	0.500
57 Pyrene	202	8.904	8.904	(1.028)	572328	0.50000	0.479
\$ 58 Terphenyl-d14	244	9.043	9.043	(1.044)	262907	0.50000	0.511
* 60 Benzo(a)anthracene-d12	240	10.100	10.100	(1.000)	310086	0.50000	0.500
\$ 61 Benzo(a)anthracene-d12 (SS)	240	10.100	10.100	(1.137)	310086	0.50000	0.633
62 Benzo(a)anthracene	228	10.121	10.121	(1.002)	411390	0.50000	0.415
* 63 Chrysene-d12	240	10.133	10.133	(1.000)	400359	0.50000	0.500
\$ 64 Chrysene-d12 (SS)	240	10.133	10.133	(1.141)	400359	0.50000	0.466
65 Chrysene	228	10.163	10.163	(1.003)	460900	0.50000	0.527
* 70 Benzo(b)fluoranthene-d12	264	11.253	11.253	(1.000)	316551	0.50000	0.500
\$ 71 Benzo(b)fluoranthene-d12 (SS)	264	11.253	11.253	(0.973)	316551	0.50000	0.564
72 Benzo(b)fluoranthene	252	11.277	11.277	(1.002)	402106	0.50000	0.432
* 73 Benzo(k)fluoranthene-d12	264	11.289	11.289	(1.000)	380027	0.50000	0.500
\$ 74 Benzo(k)fluoranthene-d12 (SS)	264	11.289	11.289	(0.976)	380027	0.50000	0.475
75 Benzo(k)fluoranthene	252	11.307	11.307	(1.002)	430420	0.50000	0.517
* 76 Benzo(e)pyrene-d12	264	11.570	11.570	(1.000)	265913 ✓	0.50000	0.500
77 Benzo(e)pyrene	252	11.600	11.600	(0.997)	375904	0.50000	0.433
* 78 Benzo(a)pyrene-d12	264	11.635	11.635	(1.000)	319826	0.50000	0.500
\$ 79 Benzo(a)pyrene-d12 (SS)	264	11.635	11.635	(1.006)	319826	0.50000	0.558
80 Benzo(a)pyrene	252	11.665	11.665	(1.003)	343302	0.50000	0.473
* 81 Perylene-d12	264	11.737	11.737	(1.000)	281596	0.50000	0.500
\$ 82 Perylene-d12 (SS)	264	11.737	11.737	(1.014)	281596	0.50000	0.492
83 Perylene	252	11.761	11.761	(1.002)	362399	0.50000	0.511
* 84 Indeno(123-cd)pyrene-d12	288	13.106	13.106	(1.000)	349643	0.50000	0.500

Data File: /chem/gcms/mp.i/P072911.b/pg29ccv.d
 Report Date: 29-Jul-2011 11:36

Compounds	QUANT SIG				AMOUNTS		
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)
=====	=====	==	=====	=====	=====	=====	=====
\$ 85 Indeno(123-cd)pyrene-d12 (SS)	288	13.106	13.106	(1.133)	346857	0.50000	0.529
86 Indeno(1,2,3-cd)pyrene	276	13.140	13.140	(1.003)	393939	0.50000	0.465
* 87 Dibenz (ah)anthracene-d14	292	13.110	13.110	(1.000)	258864	0.50000	0.500
\$ 88 Dibenz (ah)anthracene-d14 (SS)	292	13.110	13.110	(1.133)	258744	0.50000	0.518
89 Dibenz (a,h)anthracene	278	13.157	13.157	(1.004)	311401	0.50000	0.490
* 90 Benzo (ghi)perylene-d12	288	13.460	13.460	(1.000)	245279	0.50000	0.500
\$ 91 Benzo (ghi)perylene-d12 (SS)	288	13.460	13.460	(1.163)	245494	0.50000	0.499
92 Benzo (g,h,i)perylene	276	13.494	13.494	(1.002)	334246	0.50000	0.492

Data File: /chem/gcms/mp.i/P072911.b/pg29ccv.d
 Report Date: 29-Jul-2011 11:36

TestAmerica Knoxville

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: mp.i	Calibration Date: 29-JUL-2011
Lab File ID: pg29ccv.d	Calibration Time: 11:23
Lab Smp Id: PG29CCV	Client Smp ID: PAH0362
Analysis Type: SV	Level: LOW
Quant Type: ISTD	Sample Type: AIR
Operator: 60487	
Method File: /var/chem/gcms/mp.i/P072911.b/SIMPAH3.m	
Misc Info: P072911,SIMPAH3	

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
1 Naphthalene-d8	729166	364583	1458332	729166	0.00
10 2-Methylnaphthale	397150	198575	794300	397150	0.00
13 1-Methylnaphthale	391954	195977	783908	391954	0.00
17 2,6-Dimethylnapht	341712	170856	683424	341712	0.00
20 Acenaphthylene-d8	611890	305945	1223780	611890	0.00
23 Acenaphthene-d10	315297	157648	630594	315297	0.00
34 Dibenzothiopene-d	556677	278338	1113354	556677	0.00
41 Phenanthrene-d10	501268	250634	1002536	501268	0.00
44 Anthracene-d10	451451	225726	902902	451451	0.00
53 Fluoranthene-d10	502307	251154	1004614	502307	0.00

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
1 Naphthalene-d8	4.87	4.37	5.37	4.87	0.00
10 2-Methylnaphthale	5.42	4.92	5.92	5.42	0.00
13 1-Methylnaphthale	5.50	5.00	6.00	5.50	0.00
17 2,6-Dimethylnapht	5.93	5.43	6.43	5.93	0.00
20 Acenaphthylene-d8	6.19	5.69	6.69	6.19	0.00
23 Acenaphthene-d10	6.32	5.82	6.82	6.32	0.00
34 Dibenzothiopene-d	7.47	6.97	7.97	7.47	0.00
41 Phenanthrene-d10	7.58	7.08	8.08	7.58	0.00
44 Anthracene-d10	7.63	7.13	8.13	7.63	0.00
53 Fluoranthene-d10	8.67	8.17	9.17	8.67	0.00

AREA UPPER LIMIT = +100% of internal standard area.
 AREA LOWER LIMIT = - 50% of internal standard area.
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /chem/gcms/mp.i/P072911.b/pg29ccv.d

Report Date: 29-Jul-2011 11:36

TestAmerica Knoxville

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: mp.i
 Lab File ID: pg29ccv.d
 Lab Smp Id: PG29CCV
 Analysis Type: SV
 Quant Type: ISTD
 Operator: 60487

Calibration Date: 29-JUL-2011
 Calibration Time: 11:23
 Client Smp ID: PAH0362
 Level: LOW
 Sample Type: AIR

Method File: /var/chem/gcms/mp.i/P072911.b/SIMPAH3.m

Misc Info: P072911,SIMPAH3

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
56 Pyrene-d10	401596	200798	803192	401596	0.00
60 Benzo(a)anthracen	310086	155043	620172	310086	0.00
63 Chrysene-d12	400359	200180	800718	400359	0.00
70 Benzo(b)fluoranth	316551	158276	633102	316551	0.00
73 Benzo(k)fluoranth	380027	190014	760054	380027	0.00
76 Benzo(e)pyrene-d1	265913	132956	531826	265913	0.00
78 Benzo(a)pyrene-d1	319826	159913	639652	319826	0.00
81 Perylene-d12	281596	140798	563192	281596	0.00
84 Indeno(123-cd)pyr	349643	174822	699286	349643	0.00
87 Dibenz(ah)anthrac	258864	129432	517728	258864	0.00

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
56 Pyrene-d10	8.88	8.38	9.38	8.88	0.00
60 Benzo(a)anthracen	10.10	9.60	10.60	10.10	0.00
63 Chrysene-d12	10.13	9.63	10.63	10.13	0.00
70 Benzo(b)fluoranth	11.25	10.75	11.75	11.25	0.00
73 Benzo(k)fluoranth	11.29	10.79	11.79	11.29	0.00
76 Benzo(e)pyrene-d1	11.57	11.07	12.07	11.57	0.00
78 Benzo(a)pyrene-d1	11.64	11.14	12.14	11.64	0.00
81 Perylene-d12	11.74	11.24	12.24	11.74	0.00
84 Indeno(123-cd)pyr	13.11	12.61	13.61	13.11	0.00
87 Dibenz(ah)anthrac	13.11	12.61	13.61	13.11	0.00

AREA UPPER LIMIT = +100% of internal standard area.

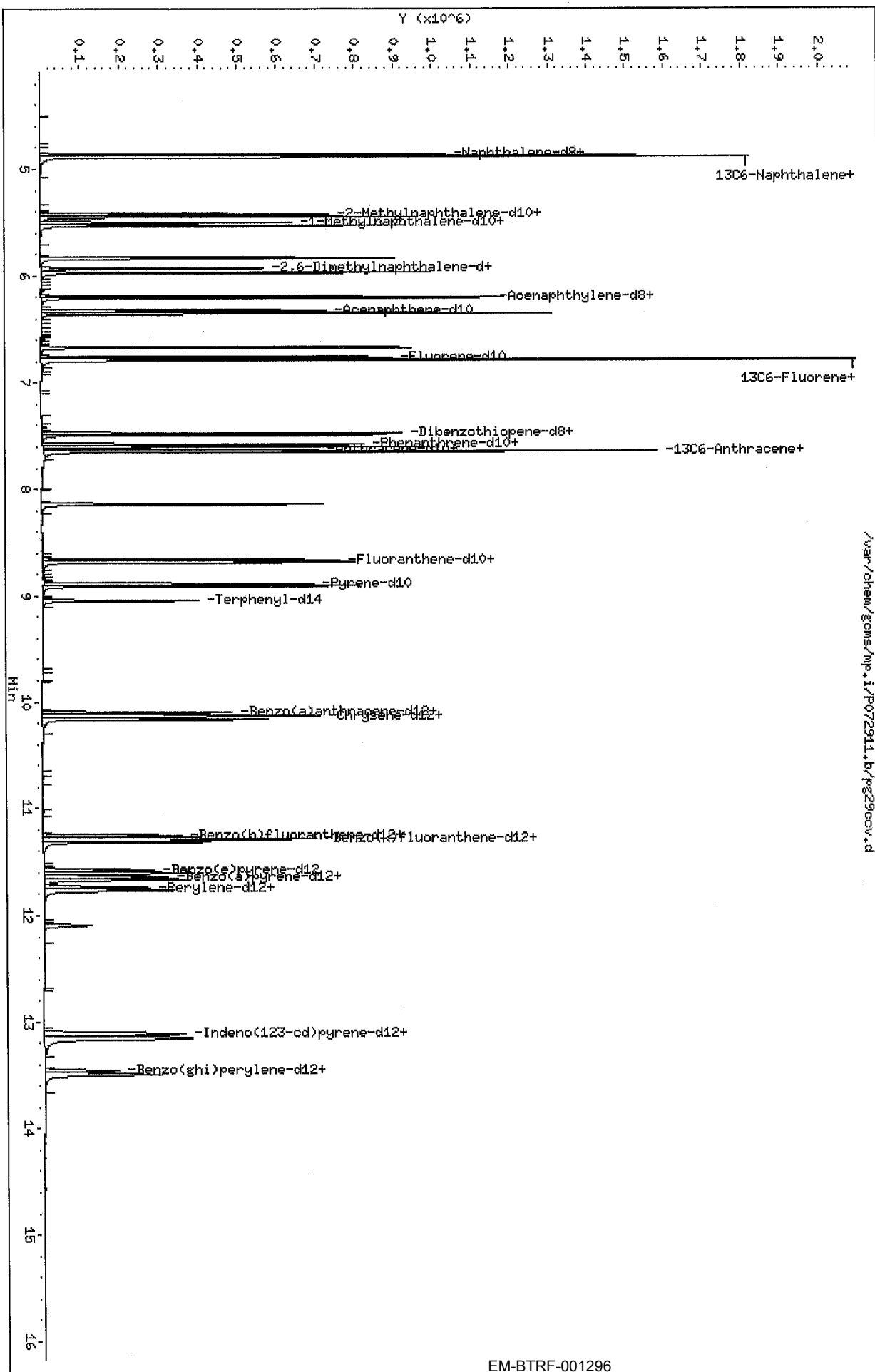
AREA LOWER LIMIT = - 50% of internal standard area.

RT UPPER LIMIT = + 0.50 minutes of internal standard RT.

RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /var/chem/gcms/mp.i/P072911.b/p229ocv.d
 Date : 29-JUL-2014 14:23
 Client ID: PAH0362
 Sample Info: P229OCV,,2,4,,PAH0362
 Purge Volume: 1.0
 Column phase: Variant: SMS

Instrument: mp.i
 Operator: 60487
 Column diameter: 0.25



678

ID028R20.doc, 081810

TestAmerica Knoxville
Instrument MP Run/Maintenance Log

97

Date/Time Verified ☒Preventive Maintenance Performed: ☐ septa ☐ liner ☐ seal ☐ clip column ☐ SPME fiber ☐ other: see below / maint. log

Target Batch	POB0111E	POB0111A		Date	8/1/11
ICAL Batch	POB0111E			Analyst	TAC
Method	<input checked="" type="checkbox"/> KNOX-ID-0016	<input type="checkbox"/> KNOX-ID-0018	<input type="checkbox"/>	IS ID & vol.	n/a

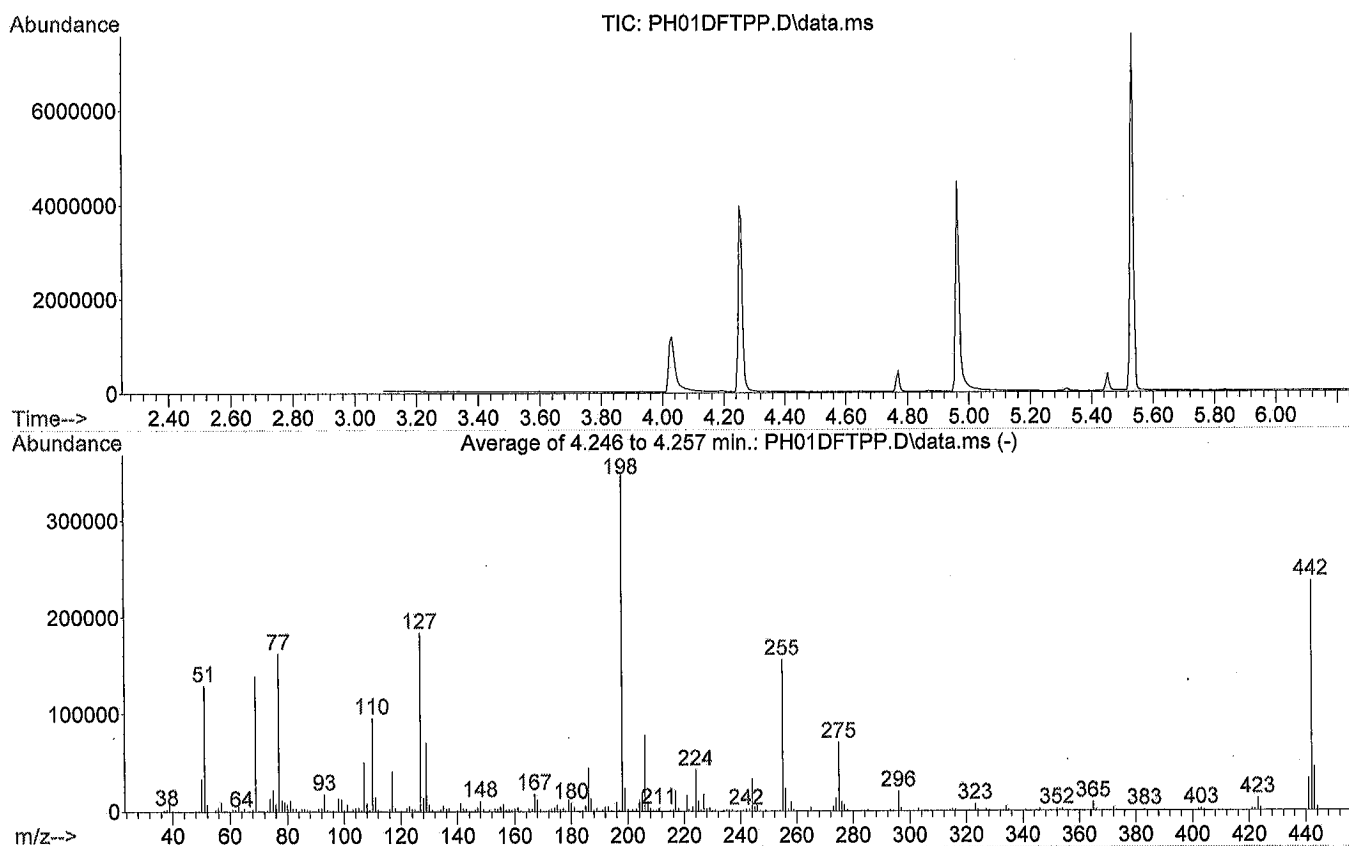
Lot	Filename	Time	Dil.	Matrix	Batch	Comments
	PH01HEX	11:48	T	T	T	
June	PH01DETP	12:06				PAH0363
	PH01EB01	12:25				
ICAL	PH01EC01	12:50				PAH0356
	PH01EC02	13:14				PAH0357
	PH01EC03	13:39				PAH0358
	PH01EC04	14:04				PAH0359
	PH01EC05	14:29				PAH0360
	PH01EC06	14:54				PAH0361
	PH01EC07	15:19				PAH0316
	PH01HEX2	15:43				
ICV	PH01ICV	16:08				PAH0309
	PH01HEX3	16:33				
MB	MK5JLIAA	16:58		Solids	1206100	(POB0111A)
US	MK5JLIAC	17:22				
US	MK5JLIAD	17:47				
HIG250404	MK5JLIAD	18:12				

Comments: _____

Data Path : D:\20110801I\
 Data File : PH01DFTPP.D
 Acq On : 1 Aug 2011 12:06 pm
 Operator : 11211
 Sample : PH01DFTPP,,3,,PAH0363
 Misc : P080111I,SIMPAH3
 ALS Vial : 2 Sample Multiplier: 1

Integration File: rteint.p

Method : C:\msdchem\1\METHODS\DFTPPTest.M
 Title : Test
 Last Update : Mon Oct 13 10:04:32 2008



AutoFind: Scans 197, 198, 199; Background Corrected with Scan 193

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	36.9	129072	PASS
68	69	0.00	2	1.4	1977	PASS
69	198	0.01	100	39.7	138981	PASS
70	69	0.00	2	0.6	899	PASS
127	198	10	80	52.5	183971	PASS
197	198	0.00	1	0.4	1311	PASS
198	198	100	100	100.0	350208	PASS
199	198	5	9	6.7	23563	PASS
275	198	10	60	20.0	70175	PASS
365	198	0.90	100	2.5	8911	PASS
441	443	0.01	100	72.4	32458	PASS
442	198	50	100	67.5	236368	PASS
443	442	15	24	19.0	44806	PASS

Report Date : 01-Aug-2011 18:58

TestAmerica Knoxville

INITIAL CALIBRATION DATA

Start Cal Date : 01-AUG-2011 12:50
 End Cal Date : 01-AUG-2011 15:19
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : HP RTE
 Method file : /var/chem/gcms/mp.i/P080111I.b/SIMPAH3.m
 Cal Date : 01-Aug-2011 18:57 cochranj
 Curve Type : Average

Calibration File Names:

Level 1: /var/chem/gcms/mp.i/P080111I.b/ph01ic01.d
 Level 2: /var/chem/gcms/mp.i/P080111I.b/ph01ic02.d
 Level 3: /var/chem/gcms/mp.i/P080111I.b/ph01ic03.d
 Level 4: /var/chem/gcms/mp.i/P080111I.b/ph01ic04.d
 Level 5: /var/chem/gcms/mp.i/P080111I.b/ph01ic05.d
 Level 6: /var/chem/gcms/mp.i/P080111I.b/ph01ic06.d
 Level 7: /var/chem/gcms/mp.i/P080111I.b/ph01ic07.d

Compound	0.02000	0.10000	0.25000	0.50000	1.000	2.500	RRF	% RSD
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6		
	5.000							
	Level 7							
3 Naphthalene	0.79229 0.77868	0.87233	0.88213	0.86454	0.86029	0.81770	0.83828	4.954
4 C2-Naphthalenes	++++ ++++	++++	++++	++++	++++	++++	0.83828	++++
5 C3-Naphthalenes(a)	++++ ++++	++++	++++	++++	++++	++++	0.83828	++++
6 C3-Naphthalenes(b)	++++ ++++	++++	++++	++++	++++	++++	0.83828	++++
7 C3-Naphthalenes(c)	++++ ++++	++++	++++	++++	++++	++++	0.83828	++++
M 8 C3-Naphthalenes(total)	++++ ++++	++++	++++	++++	++++	++++	0.83828	++++

Report Date : 01-Aug-2011 18:58

TestAmerica Knoxville

INITIAL CALIBRATION DATA

Start Cal Date : 01-AUG-2011 12:50
 End Cal Date : 01-AUG-2011 15:19
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : HP RTE
 Method file : /var/chem/gcms/mp.i/P080111I.b/SIMPAH3.m
 Cal Date : 01-Aug-2011 18:57 cochranj
 Curve Type : Average

Compound	0.02000 Level 1	0.10000 Level 2	0.25000 Level 3	0.50000 Level 4	1.000 Level 5	2.500 Level 6	RRF	% RSD
	5.000 Level 7							
9 C4-Naphthalenes	+++++	+++++	+++++	+++++	+++++	+++++	0.83828	+++++
12 2-Methylnaphthalene	0.89954 0.99619	1.01801	1.03718	1.02497	1.03173	1.00816	1.00226	4.728
15 1-Methylnaphthalene	0.85978 0.96652	0.98299	1.00733	0.99075	0.99531	0.98334	0.96943	5.152
16 Biphenyl	1.02935 1.19730	1.18693	1.23634	1.23884	1.24851	1.21813	1.19363	6.355
19 2,6 Dimethylnaphthalene	0.85782 1.01503	0.98831	1.02080	1.01948	1.03128	1.02436	0.99387	6.188
22 Acenaphthylene	0.84859 1.02785	0.96591	0.99897	1.01334	1.03832	1.03548	0.98978	6.782
24 Acenaphthene	0.50685 0.58107	0.57890	0.60608	0.60317	0.60979	0.59475	0.58295	6.111
25 2,3,5 Trimethylnaphthalene	0.68375 0.90710	0.79950	0.84821	0.86707	0.89764	0.91305	0.84519	9.639
27 Fluorene	0.62576 0.75218	0.75186	0.81449	0.82138	0.82735	0.78629	0.76847	9.141

Report Date : 01-Aug-2011 18:58

TestAmerica Knoxville

INITIAL CALIBRATION DATA

Start Cal Date : 01-AUG-2011 12:50
 End Cal Date : 01-AUG-2011 15:19
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : HP RTE
 Method file : /var/chem/gcms/mp.i/P080111I.b/SIMPAH3.m
 Cal Date : 01-Aug-2011 18:57 cochranj
 Curve Type : Average

Compound	0.02000 Level 1	0.10000 Level 2	0.25000 Level 3	0.50000 Level 4	1.000 Level 5	2.500 Level 6	RRF	% RSD
	5.000 Level 7							
29 C1-Fluorenes(a)	+++++	+++++	+++++	+++++	+++++	+++++	0.76847	+++++
30 C1-Fluorenes(b)	+++++	+++++	+++++	+++++	+++++	+++++	0.76847	+++++
M 31 C1-Fluorenes(total)	+++++	+++++	+++++	+++++	+++++	+++++	0.76847	+++++
32 C2-Fluorenes	+++++	+++++	+++++	+++++	+++++	+++++	0.76847	+++++
33 C3-Fluorenes	+++++	+++++	+++++	+++++	+++++	+++++	0.76847	+++++
36 Dibenzothiophene	0.84825 0.96083	0.95500	0.97429	0.96831	0.97846	0.97052	0.95081	4.829
37 C1-Dibenzothiophenes	+++++	+++++	+++++	+++++	+++++	+++++	0.95081	+++++
38 C2-Dibenzothiophenes	+++++	+++++	+++++	+++++	+++++	+++++	0.95081	+++++
39 C3-Dibenzothiophenes	+++++	+++++	+++++	+++++	+++++	+++++	0.95081	+++++

Report Date : 01-Aug-2011 18:58

TestAmerica Knoxville

INITIAL CALIBRATION DATA

Start Cal Date : 01-AUG-2011 12:50
 End Cal Date : 01-AUG-2011 15:19
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : HP RTE
 Method file : /var/chem/gcms/mp.i/P080111I.b/SIMPAH3.m
 Cal Date : 01-Aug-2011 18:57 cochranj
 Curve Type : Average

Compound	0.02000 Level 1	0.10000 Level 2	0.25000 Level 3	0.50000 Level 4	1.000 Level 5	2.500 Level 6	RRF	% RSD
	5.000 Level 7							
40 C4-Dibenzothiophenes	+++++	+++++	+++++	+++++	+++++	+++++	0.95081	+++++
43 Phenanthrene	0.98834 1.09716	1.09388	1.11450	1.10907	1.11860	1.10773	1.08990	4.187
46 Anthracene	1.16062 1.21797	1.26309	1.28474	1.27817	1.27068	1.26600	1.24875	3.560
48 C1-Phenan/Anthracenes	+++++	+++++	+++++	+++++	+++++	+++++	1.08990	+++++
49 C2-Phenan/Anthracenes (a)	+++++	+++++	+++++	+++++	+++++	+++++	1.08990	+++++
220 C2-Phenan/Anthracenes (b)	+++++	+++++	+++++	+++++	+++++	+++++	1.08990	+++++
M 221 C2-Phenan/Anthracenes (total)	+++++	+++++	+++++	+++++	+++++	+++++	1.08990	+++++
50 C3-Phenan/Anthracenes	+++++	+++++	+++++	+++++	+++++	+++++	1.08990	+++++
51 C4-Phenan/Anthracenes	+++++	+++++	+++++	+++++	+++++	+++++	1.08990	+++++

Report Date : 01-Aug-2011 18:58

TestAmerica Knoxville

INITIAL CALIBRATION DATA

Start Cal Date : 01-AUG-2011 12:50
 End Cal Date : 01-AUG-2011 15:19
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : HP RTE
 Method file : /var/chem/gcms/mp.i/P080111I.b/SIMPAH3.m
 Cal Date : 01-Aug-2011 18:57 cochranj
 Curve Type : Average

Compound	0.02000 Level 1	0.10000 Level 2	0.25000 Level 3	0.50000 Level 4	1.000 Level 5	2.500 Level 6	RRF	% RSD
	5.000 Level 7							
52 1-Methylphenanthrene	0.51286 0.75113	0.61657	0.66147	0.68947	0.71963	0.74567	0.67097	12.582
55 Fluoranthene	0.98279 1.15992	1.07747	1.10489	1.12164	1.14857	1.14870	1.10628	5.570
57 Pyrene	1.05064 1.20451	1.15229	1.17604	1.18958	1.20868	1.20175	1.16907	4.771
59 C1-Fluoran/Pyrenes	++++ ++++	++++	++++	++++	++++	++++	1.16907	++++
62 Benzo(a)anthracene	1.21668 1.64354	1.39216	1.46255	1.49702	1.58421	1.62162	1.48825	10.073
65 Chrysene	0.96832 1.10525	1.10684	1.13826	1.13815	1.12562	1.11591	1.09976	5.410
66 C1-Benz(a)anthraceneChrysenes	++++ ++++	++++	++++	++++	++++	++++	1.09976	++++
67 C2-Benz(a)anthraceneChrysenes	++++ ++++	++++	++++	++++	++++	++++	1.09976	++++
68 C3-Benz(a)anthraceneChrysenes	++++ ++++	++++	++++	++++	++++	++++	1.09976	++++

Report Date : 01-Aug-2011 18:58

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INITIAL CALIBRATION DATA

Start Cal Date : 01-AUG-2011 12:50
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 Quant Method : ISTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : HP RTE
 Method file : /var/chem/gcms/mp.i/P080111I.b/SIMPAH3.m
 Cal Date : 01-Aug-2011 18:57 cochranj
 Curve Type : Average

Compound	0.02000 Level 1	0.10000 Level 2	0.25000 Level 3	0.50000 Level 4	1.000 Level 5	2.500 Level 6	RRF	% RSD
	5.000 Level 7							
69 C4-Benz(a)anthraceneChrysenes	+++++	+++++	+++++	+++++	+++++	+++++	1.09976	+++++
72 Benzo(b)fluoranthene	1.39743 1.46927	1.33192	1.35867	1.37946	1.30788	1.47162	1.38804	4.574
75 Benzo(k)fluoranthene	0.90548 1.13308	1.08708	1.12612	1.12821	1.23136	1.11882	1.10431	8.908
77 Benzo(e)pyrene	1.17850 1.29334	1.23486	1.29621	1.31702	1.33594	1.31127	1.28102	4.305
80 Benzo(a)pyrene	0.89537 1.20354	1.00819	1.05901	1.11202	1.19417	1.24389	1.10231	11.257
83 Perylene	1.05229 1.32806	1.17180	1.24795	1.27599	1.31416	1.34847	1.24839	8.387
86 Indeno(1,2,3-cd)pyrene	1.03326 1.29638	1.08885	1.15666	1.18431	1.23363	1.26439	1.17964	8.038
89 Dibenz(a,h)anthracene	0.91767 1.36630	1.04683	1.18968	1.23178	1.29521	1.33605	1.19765	13.613
92 Benzo(g,h,i)perylene	1.15455 1.48186	1.29147	1.34748	1.37166	1.41804	1.43786	1.35756	8.038

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INITIAL CALIBRATION DATA

Start Cal Date : 01-AUG-2011 12:50
 End Cal Date : 01-AUG-2011 15:19
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : HP RTE
 Method file : /var/chem/gcms/mp.i/P080111I.b/SIMPAH3.m
 Cal Date : 01-Aug-2011 18:57 cochranj
 Curve Type : Average

Compound	0.02000 Level 1	0.10000 Level 2	0.25000 Level 3	0.50000 Level 4	1.000 Level 5	2.500 Level 6	RRF	% RSD
	5.000 Level 7							
=====								
\$ 2 Naphthalene-d8(SS)	2.34341	2.34994	2.29117	2.31171	2.31410	2.26249		
	2.34685						2.31710	1.404

\$ 222 13C6-Naphthalene	1.07138	0.99549	0.94448	0.92810	0.91423	0.84523		
	0.76787						0.92383	10.637

\$ 11 2-Methylnaphthalene-d10(SS)	1.26569	1.27654	1.24177	1.25628	1.25522	1.24583		
	1.27476						1.25944	1.071

\$ 14 1-Methylnaphthalene-d10(SS)	1.27983	1.28558	1.24632	1.25409	1.25084	1.21375		
	1.24070						1.25302	1.934

\$ 18 2,6-Dimethylnaph-d12(SS)	1.08366	1.09262	1.06581	1.08152	1.07704	1.06652		
	1.08713						1.07919	0.937

\$ 21 Acenaphthylene-d8(SS)	1.82595	1.83957	1.77403	1.80053	1.79145	1.81259		
	1.87693						1.81729	1.876

\$ 26 Fluorene-d10	0.49323	0.58480	0.61978	0.62720	0.63446	0.62412		
	0.60211						0.59796	8.223

\$ 28 13C6-Fluorene	0.53224	0.65295	0.70835	0.71171	0.71517	0.68471		
	0.63688						0.66314	9.831

\$ 35 Dibenzothiophene-d8(SS)	1.44218	1.45865	1.42399	1.41746	1.40890	1.38241		
	1.43246						1.42372	1.721

Report Date : 01-Aug-2011 18:58

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INITIAL CALIBRATION DATA

Start Cal Date : 01-AUG-2011 12:50
 End Cal Date : 01-AUG-2011 15:19
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : HP RTE
 Method file : /var/chem/gcms/mp.i/P080111I.b/SIMPAH3.m
 Cal Date : 01-Aug-2011 18:57 cochranj
 Curve Type : Average

Compound	0.02000 Level 1	0.10000 Level 2	0.25000 Level 3	0.50000 Level 4	1.000 Level 5	2.500 Level 6	RRF	% RSD
	5.000 Level 7							
\$ 42 Phenanthrene-d10 (SS)	1.29666 1.29123	1.31549	1.28757	1.28158	1.28149	1.25451	1.28693	1.432
\$ 45 Anthracene-d10 (SS)	1.10300 1.17786	1.11713	1.08453	1.08304	1.10518	1.10590	1.11095	2.873
\$ 47 13C6-Anthracene	1.14475 1.16823	1.17788	1.17914	1.18560	1.20121	1.14465	1.17164	1.786
\$ 54 Fluoranthene-d10 (SS)	1.23706 1.23545	1.25119	1.22172	1.22008	1.21390	1.20825	1.22681	1.226
\$ 58 Terphenyl-d14	0.34639 0.54047	0.46609	0.49583	0.53098	0.55518	0.55695	0.49884	15.010
\$ 61 Benzo(a)anthracene-d12 (SS)	0.63398 0.66728	0.64522	0.59524	0.62639	0.61397	0.64271	0.63211	3.679
\$ 64 Chrysene-d12 (SS)	0.95544 1.04894	0.98951	0.96116	1.00031	1.02347	1.02965	1.00121	3.512
\$ 71 Benzo(b)fluoranthene-d12 (SS)	1.08147 1.07423	1.08473	1.02319	1.03855	1.08723	1.06499	1.06491	2.328
\$ 74 Benzo(k)fluoranthene-d12 (SS)	1.45091 1.52961	1.48786	1.48886	1.51696	1.46659	1.48766	1.48978	1.814

Report Date : 01-Aug-2011 18:58

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INITIAL CALIBRATION DATA

Start Cal Date : 01-AUG-2011 12:50
 End Cal Date : 01-AUG-2011 15:19
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : HP RTE
 Method file : /var/chem/gcms/mp.i/P080111I.b/SIMPAH3.m
 Cal Date : 01-Aug-2011 18:57 cochranj
 Curve Type : Average

Compound	0.02000 Level 1	0.10000 Level 2	0.25000 Level 3	0.50000 Level 4	1.000 Level 5	2.500 Level 6	RRF	% RSD
	5.000 Level 7							
\$ 79 Benzo(a)pyrene-d12(SS)	1.06829	1.08957	1.06222	1.10429	1.09977	1.12963		
	1.16714						1.10299	3.286
\$ 82 Perylene-d12(SS)	1.01964	1.04665	1.02791	1.06992	1.08162	1.08844		
	1.14486						1.06843	3.992
\$ 85 Indeno(123-cd)pyrene-d12(SS)	1.18224	1.22006	1.18032	1.21362	1.19357	1.21804		
	1.23921						1.20672	1.815
\$ 88 Dibenz(ah)anthracene-d14(SS)	0.88214	0.91453	0.89146	0.91780	0.90137	0.92671		
	0.94578						0.91140	2.379
\$ 91 Benzo(ghi)perylene-d12(SS)	0.87973	0.91211	0.88928	0.91009	0.89519	0.91143		
	0.92383						0.90309	1.709

Data File: /var/chem/gcms/mp.i/P080111I.b/ph01ic01.d
 Report Date: 01-Aug-2011 18:59

TestAmerica Knoxville

SEMIVOLATILE QUANTITATION REPORT

Data file : /var/chem/gcms/mp.i/P080111I.b/ph01ic01.d
 Lab Smp Id: PH01IC01 Client Smp ID: PAH0356
 Inj Date : 01-AUG-2011 12:50
 Operator : 11211 Inst ID: mp.i
 Smp Info : PH01IC01,,1,1,,PAH0356
 Misc Info : P080111I,SIMPAH3
 Comment :
 Method : /var/chem/gcms/mp.i/P080111I.b/SIMPAH3.m
 Meth Date : 01-Aug-2011 18:58 cochranj Quant Type: ISTD
 Cal Date : 01-AUG-2011 12:50 Cal File: ph01ic01.d
 Als bottle: 4 Calibration Sample, Level: 1
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: pah.sub
 Target Version: 3.50

Concentration Formula: Amt * DF * Sf*Vt/Vo * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Sf	1.00000	Split factor
Vt	500.00000	Volume of final extract (uL)
Vo	1.00000	Volume of sample extracted (sample)

Cpnd Variable

Local Compound Variable

Compounds	QUANT SIG	MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
							CAL-AMT (ug/ml)	ON-COL (ug/ml)
* 1 Naphthalene-d8		136	4.869	4.873	(1.000)	741335	0.50000	0.500
\$ 2 Naphthalene-d8 (SS)		136	4.869	4.873	(0.770)	741335	0.50000	0.500
3 Naphthalene		128	4.884	4.891	(1.003)	23494	0.02000	0.0200
\$ 222 13C6-Naphthalene		134	4.884	4.891	(1.003)	31770	0.02000	0.0200
* 10 2-Methylnaphthalene-d10		152	5.424	5.427	(1.000)	400399	0.50000	0.500
\$ 11 2-Methylnaphthalene-d10 (SS)		152	5.424	5.427	(0.858)	400399	0.50000	0.500
12 2-Methylnaphthalene		142	5.450	5.454	(1.005)	14407	0.02000	0.0200
* 13 1-Methylnaphthalene-d10		152	5.507	5.507	(1.000)	404872	0.50000	0.500
\$ 14 1-Methylnaphthalene-d10 (SS)		152	5.507	5.507	(0.871)	404872	0.50000	0.500
15 1-Methylnaphthalene		142	5.533	5.536	(1.005)	13924	0.02000	0.0200
16 Biphenyl		154	5.840	5.838	(1.077)	16486	0.02000	0.0200
* 17 2,6-Dimethylnaphthalene-d12		168	5.935	5.935	(1.000)	342815	0.50000	0.500
\$ 18 2,6-Dimethylnaph-d12 (SS)		168	5.935	5.935	(0.938)	342815	0.50000	0.500
19 2,6 Dimethylnaphthalene		156	5.971	5.971	(1.006)	11763	0.02000	0.0200
* 20 Acenaphthylene-d8		160	6.194	6.194	(1.000)	577636	0.50000	0.500

Data File: /var/chem/gcms/mp.i/P080111I.b/ph01ic01.d

Report Date: 01-Aug-2011 18:59

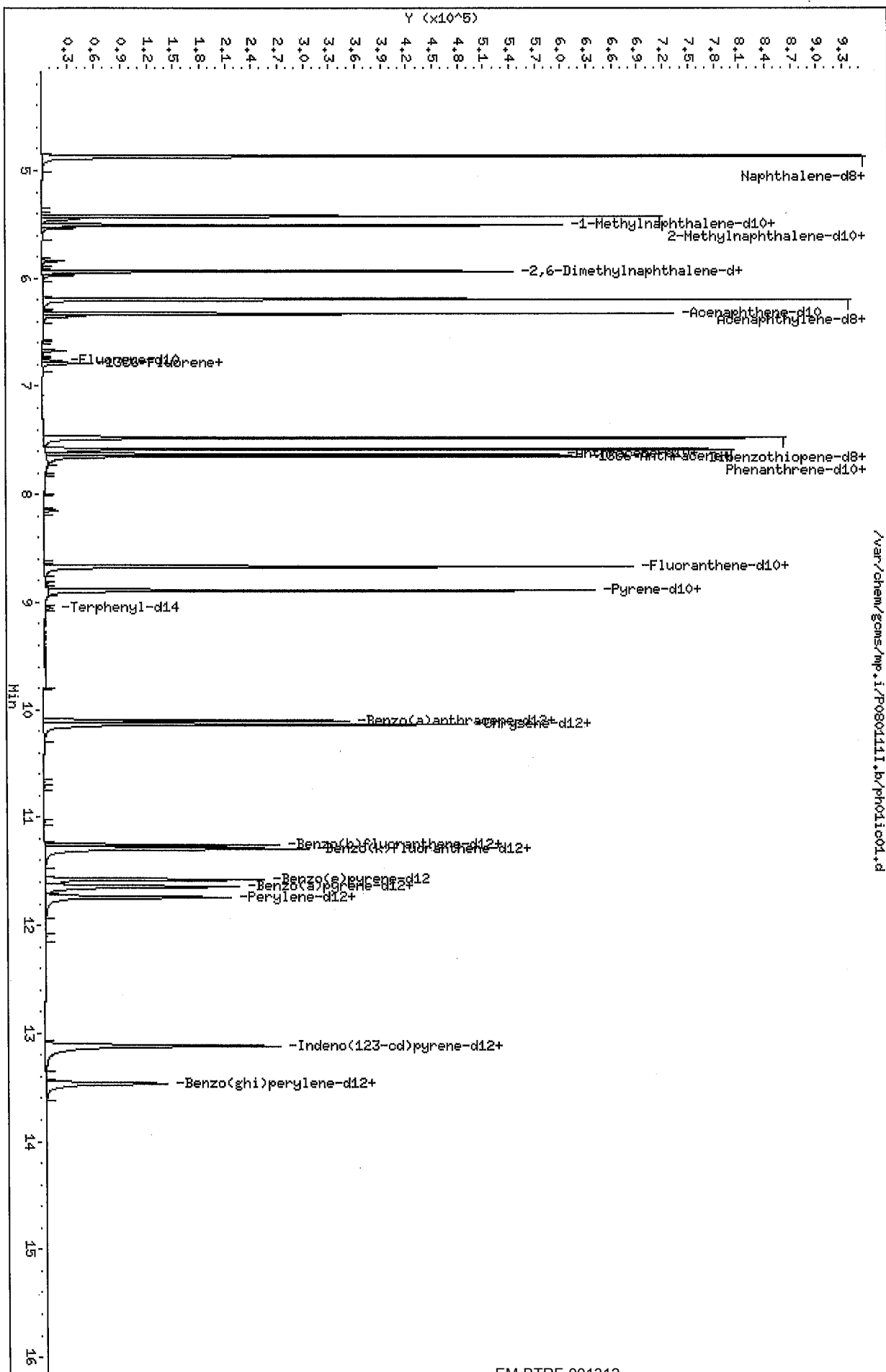
Compounds	QUANT SIG					AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)
=====	=====	==	=====	=====	=====	=====	=====
\$ 21 Acenaphthylene-d8 (SS)	160	6.194	6.194	(0.979)	577636	0.50000	0.500
22 Acenaphthylene	152	6.205	6.205	(1.002)	19607	0.02000	0.0200
* 23 Acenaphthene-d10	164	6.325	6.325	(1.000)	316349	0.50000	0.500
24 Acenaphthene	154	6.353	6.350	(1.026)	11711	0.02000	0.0200
25 2,3,5 Trimethylnaphthalene	170	6.674	6.671	(1.124)	9376	0.02000	0.0200
\$ 26 Fluorene-d10	176	6.766	6.761	(0.893)	9646	0.02000	0.0200
27 Fluorene	166	6.788	6.786	(0.896)	12238	0.02000	0.0200
\$ 28 13C6-Fluorene	171	6.788	6.786	(0.896)	10409	0.02000	0.0200
* 34 Dibenzothiophene-d8	192	7.476	7.476	(1.000)	543795	0.50000	0.500
\$ 35 Dibenzothiophene-d8 (SS)	192	7.476	7.476	(0.841)	543795	0.50000	0.500
36 Dibenzothiophene	184	7.493	7.490	(1.002)	18451	0.02000	0.0200
* 41 Phenanthrene-d10	188	7.580	7.580	(1.000)	488924	0.50000	0.500
\$ 42 Phenanthrene-d10 (SS)	188	7.580	7.580	(0.853)	488924	0.50000	0.500
43 Phenanthrene	178	7.601	7.599	(1.003)	19329	0.02000	0.0200
* 44 Anthracene-d10	188	7.628	7.628	(1.000)	415897	0.50000	0.500
\$ 45 Anthracene-d10 (SS)	188	7.628	7.628	(0.858)	415900	0.50000	0.500
46 Anthracene	178	7.644	7.644	(1.002)	19308	0.02000	0.0200
\$ 47 13C6-Anthracene	184	7.644	7.644	(0.860)	431645	0.50000	0.500
52 1-Methylphenanthrene	192	8.150	8.145	(1.075)	10030	0.02000	0.0200
* 53 Fluoranthene-d10	212	8.667	8.667	(1.000)	466452	0.50000	0.500
\$ 54 Fluoranthene-d10 (SS)	212	8.667	8.667	(0.975)	466452	0.50000	0.500
55 Fluoranthene	202	8.684	8.684	(1.002)	18337	0.02000	0.0200
* 56 Pyrene-d10	212	8.889	8.889	(1.000)	377064	0.50000	0.500
57 Pyrene	202	8.906	8.906	(1.028)	19603	0.02000	0.0200
\$ 58 Terphenyl-d14	244	9.049	9.045	(1.044)	6463	0.02000	0.0200
* 60 Benzo(a)anthracene-d12	240	10.104	10.104	(1.000)	239052	0.50000	0.500
\$ 61 Benzo(a)anthracene-d12 (SS)	240	10.104	10.104	(1.137)	239052	0.50000	0.500
62 Benzo(a)anthracene	228	10.124	10.125	(1.002)	11634	0.02000	0.0200
* 63 Chrysene-d12	240	10.137	10.137	(1.000)	360262	0.50000	0.500
\$ 64 Chrysene-d12 (SS)	240	10.137	10.137	(1.140)	360262	0.50000	0.500
65 Chrysene	228	10.162	10.162	(1.002)	13954	0.02000	0.0200
* 70 Benzo(b)fluoranthene-d12	264	11.258	11.258	(1.000)	252160	0.50000	0.500
\$ 71 Benzo(b)fluoranthene-d12 (SS)	264	11.258	11.258	(0.973)	252160	0.50000	0.500
72 Benzo(b)fluoranthene	252	11.282	11.282	(1.002)	14095	0.02000	0.0200
* 73 Benzo(k)fluoranthene-d12	264	11.288	11.294	(1.000)	338301	0.50000	0.500
\$ 74 Benzo(k)fluoranthene-d12 (SS)	264	11.288	11.294	(0.975)	338301	0.50000	0.500
75 Benzo(k)fluoranthene	252	11.312	11.312	(1.002)	12253	0.02000	0.0200
* 76 Benzo(e)pyrene-d12	264	11.575	11.575	(1.000)	233165	0.50000	0.500
77 Benzo(e)pyrene	252	11.605	11.605	(0.997)	11742	0.02000	0.0200
* 78 Benzo(a)pyrene-d12	264	11.641	11.641	(1.000)	249088	0.50000	0.500
\$ 79 Benzo(a)pyrene-d12 (SS)	264	11.641	11.641	(1.006)	249088	0.50000	0.500
80 Benzo(a)pyrene	252	11.665	11.671	(1.002)	8921	0.02000	0.0200
* 81 Perylene-d12	264	11.737	11.737	(1.000)	237744	0.50000	0.500
\$ 82 Perylene-d12 (SS)	264	11.737	11.737	(1.014)	237744	0.50000	0.500
83 Perylene	252	11.766	11.766	(1.003)	10007	0.02000	0.0200
* 84 Indeno(123-cd)pyrene-d12	288	13.111	13.114	(1.000)	275656	0.50000	0.500
\$ 85 Indeno(123-cd)pyrene-d12 (SS)	288	13.111	13.114	(1.133)	275656	0.50000	0.500

Data File: /var/chem/gcms/mp.i/P080111I.b/ph01ic01.d
 Report Date: 01-Aug-2011 18:59

Compounds	QUANT SIG					AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)
=====	=====	==	=====	=====	=====	=====	=====
86 Indeno(1,2,3-cd)pyrene	276	13.145	13.152	(1.003)	11393	0.02000	0.0200
* 87 Dibenz(ah)anthracene-d14	292	13.116	13.118	(1.000)	205685	0.50000	0.500
\$ 88 Dibenz(ah)anthracene-d14(SS)	292	13.116	13.118	(1.133)	205685	0.50000	0.500
89 Dibenz(a,h)anthracene	278	13.162	13.165	(1.004)	7550	0.02000	0.0200
* 90 Benzo(ghi)perylene-d12	288	13.462	13.464	(1.000)	205123	0.50000	0.500
\$ 91 Benzo(ghi)perylene-d12(SS)	288	13.462	13.464	(1.163)	205123	0.50000	0.500
92 Benzo(g,h,i)perylene	276	13.495	13.502	(1.002)	9473	0.02000	0.0200

Data File: /var/chem/gcms/mp.i/P0801111.b/p011001.d
 Date: 01-AUG-2011 12:50
 Client ID: PAH0356
 Sample Info: PH011001,1,1,PAH0356
 Purge Volume: 1.0
 Column phase: Variant SMS

Instrument: mp.i
 Operator: 11211
 Column diameter: 0.25



Data File: /var/chem/gcms/mp.i/P080111I.b/ph01ic02.d
 Report Date: 01-Aug-2011 18:59

TestAmerica Knoxville

SEMIVOLATILE QUANTITATION REPORT

Data file : /var/chem/gcms/mp.i/P080111I.b/ph01ic02.d
 Lab Smp Id: PH01IC02 Client Smp ID: PAH0357
 Inj Date : 01-AUG-2011 13:14
 Operator : 11211 Inst ID: mp.i
 Smp Info : PH01IC02,,1,2,,PAH0357
 Misc Info : P080111I,SIMPAH3
 Comment :
 Method : /var/chem/gcms/mp.i/P080111I.b/SIMPAH3.m
 Meth Date : 01-Aug-2011 18:58 cochranj Quant Type: ISTD
 Cal Date : 01-AUG-2011 13:14 Cal File: ph01ic02.d
 Als bottle: 5 Calibration Sample, Level: 2
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: pah.sub
 Target Version: 3.50

Concentration Formula: $\text{Amt} * \text{DF} * \text{Sf} * \text{Vt} / \text{Vo} * \text{CpndVariable}$

Name	Value	Description
DF	1.00000	Dilution Factor
Sf	1.00000	Split factor
Vt	500.00000	Volume of final extract (uL)
Vo	1.00000	Volume of sample extracted (sample)

Cpnd Variable

Local Compound Variable

Compounds	QUANT SIG	MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
							CAL-AMT (ug/ml)	ON-COL (ug/ml)
* 1 Naphthalene-d8	136	4.869	4.873	(1.000)	739800	0.50000	0.500	
\$ 2 Naphthalene-d8 (SS)	136	4.869	4.873	(0.770)	739800	0.50000	0.501	
3 Naphthalene	128	4.884	4.891	(1.003)	129070	0.10000	0.105	
\$ 222 13C6-Naphthalene	134	4.884	4.891	(1.003)	147293	0.10000	0.0963	
* 10 2-Methylnaphthalene-d10	152	5.424	5.427	(1.000)	401877	0.50000	0.500	
\$ 11 2-Methylnaphthalene-d10 (SS)	152	5.424	5.427	(0.858)	401877	0.50000	0.502	
12 2-Methylnaphthalene	142	5.450	5.454	(1.005)	81823	0.10000	0.106	
* 13 1-Methylnaphthalene-d10	152	5.507	5.507	(1.000)	404723	0.50000	0.500	
\$ 14 1-Methylnaphthalene-d10 (SS)	152	5.507	5.507	(0.871)	404723	0.50000	0.501	
15 1-Methylnaphthalene	142	5.533	5.536	(1.005)	79568	0.10000	0.107	
16 Biphenyl	154	5.837	5.838	(1.076)	95400	0.10000	0.107	
* 17 2,6-Dimethylnaphthalene-d12	168	5.935	5.935	(1.000)	343976	0.50000	0.500	
\$ 18 2,6-Dimethylnaph-d12 (SS)	168	5.935	5.935	(0.938)	343976	0.50000	0.502	
19 2,6 Dimethylnaphthalene	156	5.971	5.971	(1.006)	67991	0.10000	0.107	
* 20 Acenaphthylene-d8	160	6.196	6.194	(1.000)	579128	0.50000	0.500	

Data File: /var/chem/gcms/mp.i/P080111I.b/ph01ic02.d

Report Date: 01-Aug-2011 18:59

Compounds	QUANT SIG					AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)
=====	=====	==	=====	=====	=====	=====	=====
\$ 21 Acenaphthylene-d8(SS)	160	6.196	6.194	(0.980)	579128	0.50000	0.502
22 Acenaphthylene	152	6.205	6.205	(1.001)	111877	0.10000	0.106
* 23 Acenaphthene-d10	164	6.325	6.325	(1.000)	314817	0.50000	0.500
24 Acenaphthene	154	6.350	6.350	(1.025)	67052	0.10000	0.107
25 2,3,5 Trimethylnaphthalene	170	6.671	6.671	(1.124)	55002	0.10000	0.108
\$ 26 Fluorene-d10	176	6.761	6.761	(0.892)	57842	0.10000	0.108
27 Fluorene	166	6.786	6.786	(0.895)	74366	0.10000	0.109
\$ 28 13C6-Fluorene	171	6.786	6.786	(0.895)	64583	0.10000	0.110
* 34 Dibenzothiophene-d8	192	7.476	7.476	(1.000)	548369	0.50000	0.500
\$ 35 Dibenzothiophene-d8(SS)	192	7.476	7.476	(0.841)	548369	0.50000	0.503
36 Dibenzothiophene	184	7.490	7.490	(1.002)	104738	0.10000	0.106
* 41 Phenanthrene-d10	188	7.580	7.580	(1.000)	494549	0.50000	0.500
\$ 42 Phenanthrene-d10(SS)	188	7.580	7.580	(0.853)	494549	0.50000	0.504
43 Phenanthrene	178	7.598	7.599	(1.002)	108195	0.10000	0.105
* 44 Anthracene-d10	188	7.628	7.628	(1.000)	419978	0.50000	0.500
\$ 45 Anthracene-d10(SS)	188	7.628	7.628	(0.858)	419978	0.50000	0.503
46 Anthracene	178	7.644	7.644	(1.002)	106094	0.10000	0.104
\$ 47 13C6-Anthracene	184	7.644	7.644	(0.860)	442816	0.50000	0.507
52 1-Methylphenanthrene	192	8.148	8.145	(1.075)	60985	0.10000	0.109
* 53 Fluoranthene-d10	212	8.665	8.667	(1.000)	470377	0.50000	0.500
\$ 54 Fluoranthene-d10(SS)	212	8.665	8.667	(0.975)	470377	0.50000	0.503
55 Fluoranthene	202	8.685	8.684	(1.002)	101363	0.10000	0.105
* 56 Pyrene-d10	212	8.889	8.889	(1.000)	375944	0.50000	0.500
57 Pyrene	202	8.906	8.906	(1.028)	108402	0.10000	0.105
\$ 58 Terphenyl-d14	244	9.047	9.045	(1.044)	43848	0.10000	0.115
* 60 Benzo(a)anthracene-d12	240	10.100	10.104	(1.000)	242566	0.50000	0.500
\$ 61 Benzo(a)anthracene-d12(SS)	240	10.100	10.104	(1.136)	242566	0.50000	0.504
62 Benzo(a)anthracene	228	10.125	10.125	(1.002)	67538	0.10000	0.107
* 63 Chrysene-d12	240	10.133	10.137	(1.000)	372002	0.50000	0.500
\$ 64 Chrysene-d12(SS)	240	10.133	10.137	(1.140)	372002	0.50000	0.509
65 Chrysene	228	10.163	10.162	(1.003)	82349	0.10000	0.107
* 70 Benzo(b)fluoranthene-d12	264	11.253	11.258	(1.000)	254816	0.50000	0.500
\$ 71 Benzo(b)fluoranthene-d12(SS)	264	11.253	11.258	(0.972)	254816	0.50000	0.501
72 Benzo(b)fluoranthene	252	11.283	11.282	(1.003)	67879	0.10000	0.0976
* 73 Benzo(k)fluoranthene-d12	264	11.289	11.294	(1.000)	349515	0.50000	0.500
\$ 74 Benzo(k)fluoranthene-d12(SS)	264	11.289	11.294	(0.975)	349515	0.50000	0.506
75 Benzo(k)fluoranthene	252	11.313	11.312	(1.002)	75990	0.10000	0.109
* 76 Benzo(e)pyrene-d12	264	11.576	11.575	(1.000)	234911	0.50000	0.500
77 Benzo(e)pyrene	252	11.605	11.605	(0.997)	63213	0.10000	0.102
* 78 Benzo(a)pyrene-d12	264	11.641	11.641	(1.000)	255953	0.50000	0.500
\$ 79 Benzo(a)pyrene-d12(SS)	264	11.641	11.641	(1.006)	255953	0.50000	0.505
80 Benzo(a)pyrene	252	11.665	11.671	(1.002)	51610	0.10000	0.106
* 81 Perylene-d12	264	11.737	11.737	(1.000)	245869	0.50000	0.500
\$ 82 Perylene-d12(SS)	264	11.737	11.737	(1.014)	245869	0.50000	0.507
83 Perylene	252	11.767	11.766	(1.003)	57622	0.10000	0.105
* 84 Indeno(123-cd)pyrene-d12	288	13.110	13.114	(1.000)	286606	0.50000	0.500
\$ 85 Indeno(123-cd)pyrene-d12(SS)	288	13.110	13.114	(1.133)	286606	0.50000	0.508

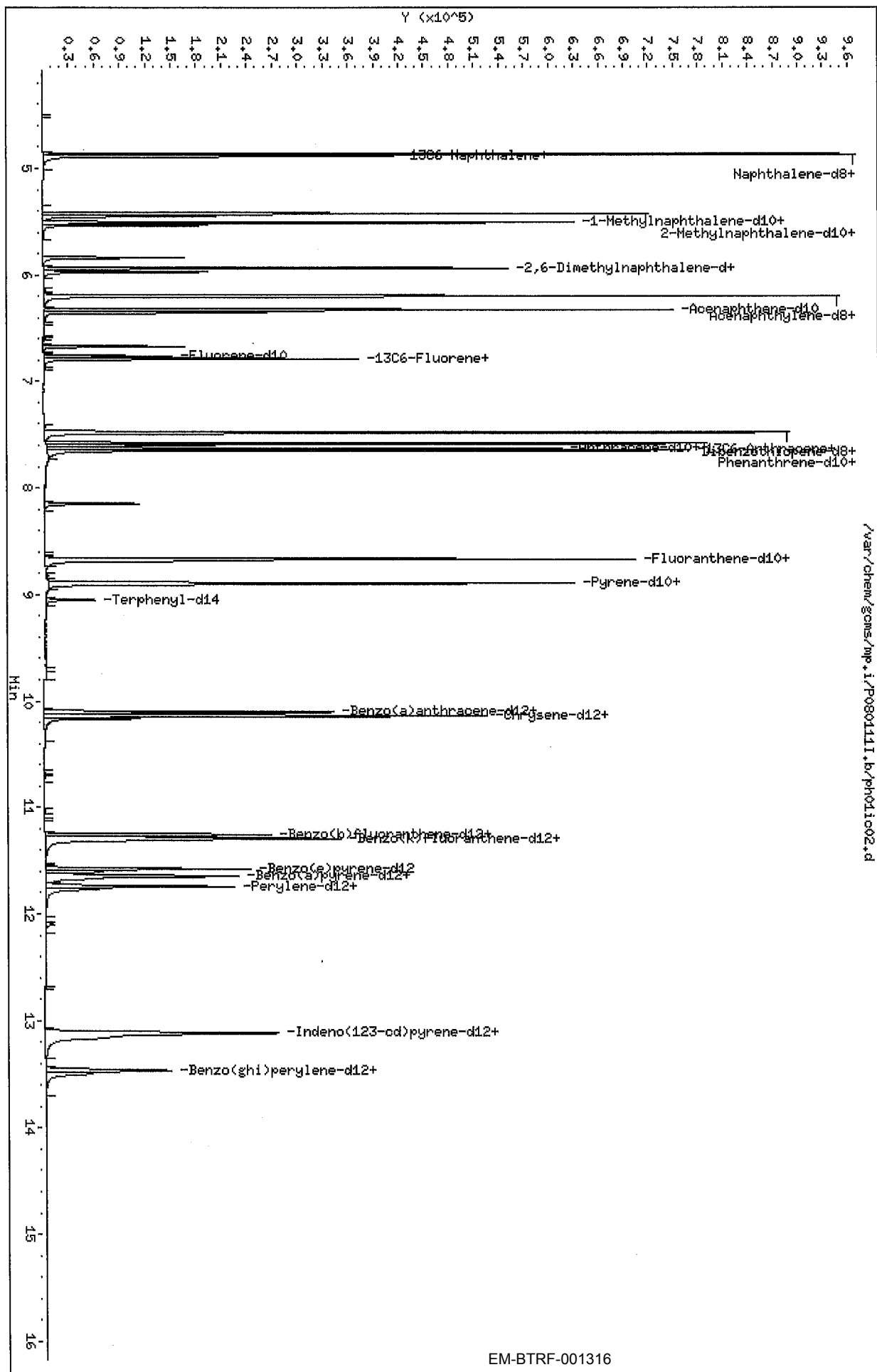
Data File: /var/chem/gcms/mp.i/P080111I.b/ph01ic02.d

Report Date: 01-Aug-2011 18:59

						AMOUNTS	
		QUANT SIG				CAL-AMT	ON-COL
Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/ml)	(ug/ml)
=====	=====	==	=====	=====	=====	=====	=====
86 Indeno(1,2,3-cd)pyrene	276	13.144	13.152	(1.003)	62414	0.10000	0.103
* 87 Dibenz(ah)anthracene-d14	292	13.114	13.118	(1.000)	214834	0.50000	0.500
\$ 88 Dibenz(ah)anthracene-d14(SS)	292	13.114	13.118	(1.133)	214834	0.50000	0.509
89 Dibenz(a,h)anthracene	278	13.161	13.165	(1.004)	44979	0.10000	0.107
* 90 Benzo(ghi)perylene-d12	288	13.464	13.464	(1.000)	214264	0.50000	0.500
\$ 91 Benzo(ghi)perylene-d12(SS)	288	13.464	13.464	(1.163)	214264	0.50000	0.509
92 Benzo(g,h,i)perylene	276	13.498	13.502	(1.002)	55343	0.10000	0.106

Data File: /var/chem/gcms/mp.i/P0801111.b/p011002.d
 Date : 01-AUG-2011 13:14
 Client ID: PAH0357
 Sample Info: PH011002,1,2,,PAH0357
 Purge Volume: 1.0
 Column phase: Variant: SMS

Instrument: mp.i
 Operator: 11211
 Column diameter: 0.25



Data File: /var/chem/gcms/mp.i/P080111I.b/ph01ic03.d
 Report Date: 01-Aug-2011 18:59

TestAmerica Knoxville

SEMIVOLATILE QUANTITATION REPORT

Data file : /var/chem/gcms/mp.i/P080111I.b/ph01ic03.d
 Lab Smp Id: PH01IC03 Client Smp ID: PAH0358
 Inj Date : 01-AUG-2011 13:39
 Operator : 11211 Inst ID: mp.i
 Smp Info : PH01IC03,,1,3,,PAH0358
 Misc Info : P080111I,SIMPAH3
 Comment :
 Method : /var/chem/gcms/mp.i/P080111I.b/SIMPAH3.m
 Meth Date : 01-Aug-2011 18:58 cochranj Quant Type: ISTD
 Cal Date : 01-AUG-2011 13:39 Cal File: ph01ic03.d
 Als bottle: 6 Calibration Sample, Level: 3
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: pah.sub
 Target Version: 3.50

Concentration Formula: $\text{Amt} * \text{DF} * \text{Sf} * \text{Vt} / \text{Vo} * \text{CpndVariable}$

Name	Value	Description
DF	1.00000	Dilution Factor
Sf	1.00000	Split factor
Vt	500.00000	Volume of final extract (uL)
Vo	1.00000	Volume of sample extracted (sample)

Cpnd Variable

Local Compound Variable

Compounds	QUANT SIG	MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
							CAL-AMT (ug/ml)	ON-COL (ug/ml)
* 1 Naphthalene-d8	=====	136	4.869	4.873	(1.000)	688318	0.50000	0.500
\$ 2 Naphthalene-d8 (SS)	=====	136	4.869	4.873	(0.770)	688318	0.50000	0.492
3 Naphthalene	=====	128	4.884	4.891	(1.003)	303593	0.25000	0.260
\$ 222 13C6-Naphthalene	=====	134	4.884	4.891	(1.003)	325050	0.25000	0.235
* 10 2-Methylnaphthalene-d10	=====	152	5.424	5.427	(1.000)	373054	0.50000	0.500
\$ 11 2-Methylnaphthalene-d10 (SS)	=====	152	5.424	5.427	(0.858)	373054	0.50000	0.492
12 2-Methylnaphthalene	=====	142	5.450	5.454	(1.005)	193463	0.25000	0.263
* 13 1-Methylnaphthalene-d10	=====	152	5.507	5.507	(1.000)	374423	0.50000	0.500
\$ 14 1-Methylnaphthalene-d10 (SS)	=====	152	5.507	5.507	(0.871)	374423	0.50000	0.490
15 1-Methylnaphthalene	=====	142	5.533	5.536	(1.005)	188583	0.25000	0.265
16 Biphenyl	=====	154	5.837	5.838	(1.076)	230610	0.25000	0.269
* 17 2,6-Dimethylnaphthalene-d12	=====	168	5.935	5.935	(1.000)	320193	0.50000	0.500
\$ 18 2,6-Dimethylnaph-d12 (SS)	=====	168	5.935	5.935	(0.938)	320193	0.50000	0.493
19 2,6 Dimethylnaphthalene	=====	156	5.971	5.971	(1.006)	163426	0.25000	0.267
* 20 Acenaphthylene-d8	=====	160	6.193	6.194	(1.000)	532959	0.50000	0.500

Data File: /var/chem/gcms/mp.i/P080111I.b/ph01ic03.d

Report Date: 01-Aug-2011 18:59

Compounds	QUANT SIG					AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)
=====	=====	==	=====	=====	=====	=====	=====
\$ 21 Acenaphthylene-d8 (SS)	160	6.193	6.194	(0.979)	532959	0.50000	0.489
22 Acenaphthylene	152	6.205	6.205	(1.002)	266205	0.25000	0.266
* 23 Acenaphthene-d10	164	6.325	6.325	(1.000)	300422	0.50000	0.500
24 Acenaphthene	154	6.350	6.350	(1.025)	161508	0.25000	0.269
25 2,3,5 Trimethylnaphthalene	170	6.671	6.671	(1.124)	135795	0.25000	0.273
\$ 26 Fluorene-d10	176	6.761	6.761	(0.892)	141682	0.25000	0.274
27 Fluorene	166	6.786	6.786	(0.895)	186192	0.25000	0.279
\$ 28 13C6-Fluorene	171	6.786	6.786	(0.895)	161928	0.25000	0.281
* 34 Dibenzothiophene-d8	192	7.476	7.476	(1.000)	505642	0.50000	0.500
\$ 35 Dibenzothiophene-d8 (SS)	192	7.476	7.476	(0.841)	505642	0.50000	0.494
36 Dibenzothiophene	184	7.490	7.490	(1.002)	246320	0.25000	0.263
* 41 Phenanthrene-d10	188	7.580	7.580	(1.000)	457200	0.50000	0.500
\$ 42 Phenanthrene-d10 (SS)	188	7.580	7.580	(0.853)	457200	0.50000	0.495
43 Phenanthrene	178	7.598	7.599	(1.002)	254775	0.25000	0.261
* 44 Anthracene-d10	188	7.627	7.628	(1.000)	385107	0.50000	0.500
\$ 45 Anthracene-d10 (SS)	188	7.627	7.628	(0.858)	385103	0.50000	0.492
46 Anthracene	178	7.644	7.644	(1.002)	247382	0.25000	0.260
\$ 47 13C6-Anthracene	184	7.644	7.644	(0.860)	418697	0.50000	0.505
52 1-Methylphenanthrene	192	8.148	8.145	(1.075)	151212	0.25000	0.277
* 53 Fluoranthene-d10	212	8.667	8.667	(1.000)	433819	0.50000	0.500
\$ 54 Fluoranthene-d10 (SS)	212	8.667	8.667	(0.975)	433819	0.50000	0.494
55 Fluoranthene	202	8.684	8.684	(1.002)	239662	0.25000	0.262
* 56 Pyrene-d10	212	8.889	8.889	(1.000)	355088	0.50000	0.500
57 Pyrene	202	8.906	8.906	(1.028)	255094	0.25000	0.261
\$ 58 Terphenyl-d14	244	9.047	9.045	(1.044)	107551	0.25000	0.284
* 60 Benzo(a)anthracene-d12	240	10.103	10.104	(1.000)	211364	0.50000	0.500
\$ 61 Benzo(a)anthracene-d12 (SS)	240	10.103	10.104	(1.137)	211364	0.50000	0.476
62 Benzo(a)anthracene	228	10.124	10.125	(1.002)	154565	0.25000	0.269
* 63 Chrysene-d12	240	10.137	10.137	(1.000)	341296	0.50000	0.500
\$ 64 Chrysene-d12 (SS)	240	10.137	10.137	(1.140)	341296	0.50000	0.496
65 Chrysene	228	10.162	10.162	(1.002)	194241	0.25000	0.266
* 70 Benzo(b)fluoranthene-d12	264	11.258	11.258	(1.000)	221797	0.50000	0.500
\$ 71 Benzo(b)fluoranthene-d12 (SS)	264	11.258	11.258	(0.973)	221797	0.50000	0.481
72 Benzo(b)fluoranthene	252	11.282	11.282	(1.002)	150675	0.25000	0.249
* 73 Benzo(k)fluoranthene-d12	264	11.288	11.294	(1.000)	322741	0.50000	0.500
\$ 74 Benzo(k)fluoranthene-d12 (SS)	264	11.288	11.294	(0.975)	322741	0.50000	0.504
75 Benzo(k)fluoranthene	252	11.312	11.312	(1.002)	181722	0.25000	0.271
* 76 Benzo(e)pyrene-d12	264	11.575	11.575	(1.000)	216770	0.50000	0.500
77 Benzo(e)pyrene	252	11.605	11.605	(0.997)	149231	0.25000	0.262
* 78 Benzo(a)pyrene-d12	264	11.641	11.641	(1.000)	230258	0.50000	0.500
\$ 79 Benzo(a)pyrene-d12 (SS)	264	11.641	11.641	(1.006)	230258	0.50000	0.495
80 Benzo(a)pyrene	252	11.665	11.671	(1.002)	121923	0.25000	0.268
* 81 Perylene-d12	264	11.736	11.737	(1.000)	222819	0.50000	0.500
\$ 82 Perylene-d12 (SS)	264	11.736	11.737	(1.014)	222819	0.50000	0.498
83 Perylene	252	11.766	11.766	(1.003)	139034	0.25000	0.270
* 84 Indeno(123-cd)pyrene-d12	288	13.114	13.114	(1.000)	255857	0.50000	0.500
\$ 85 Indeno(123-cd)pyrene-d12 (SS)	288	13.114	13.114	(1.133)	255857	0.50000	0.494

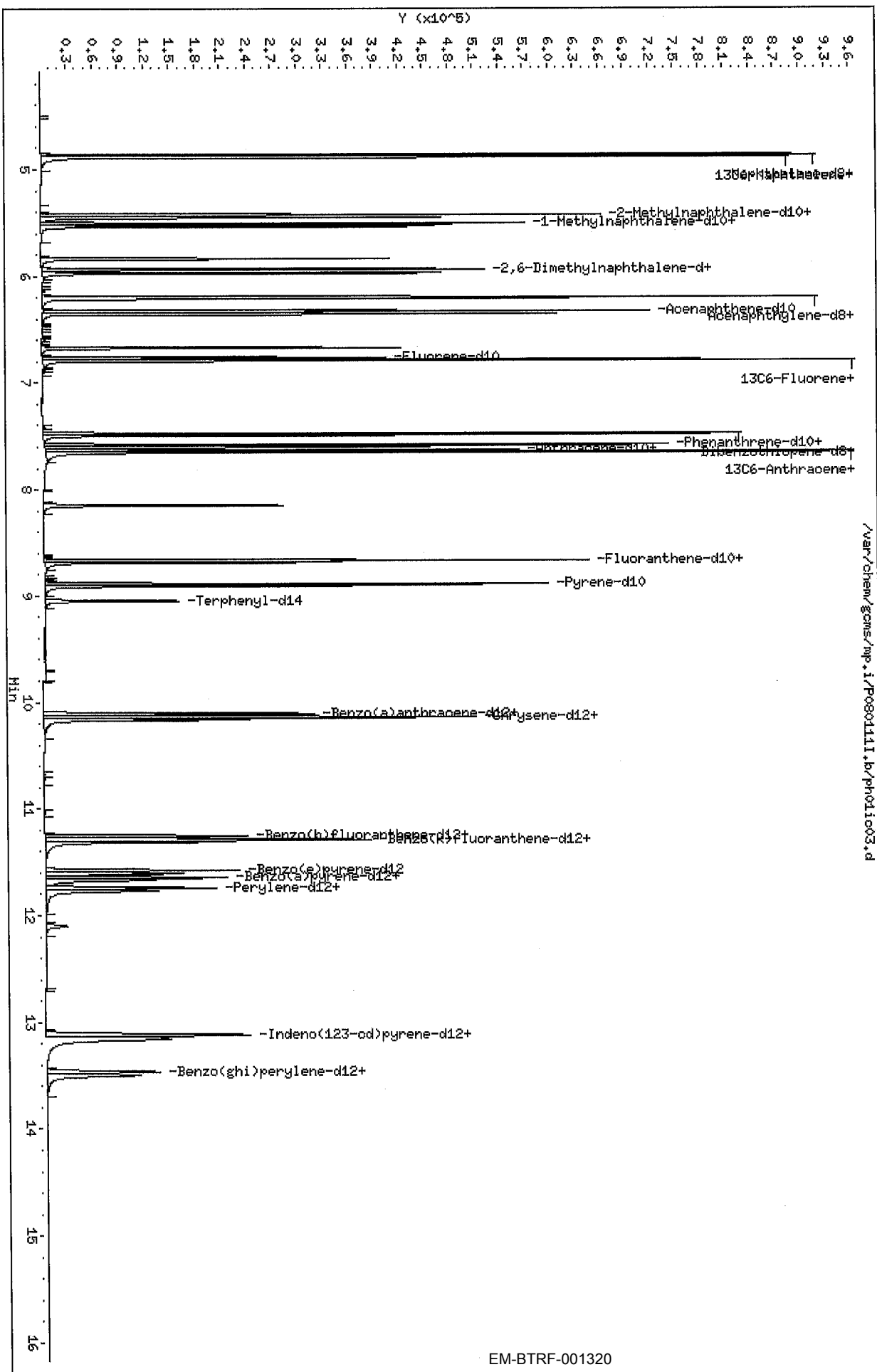
Data File: /var/chem/gcms/mp.i/P080111I.b/ph01ic03.d

Report Date: 01-Aug-2011 18:59

Compounds	QUANT SIG					AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)
=====	=====	==	=====	=====	=====	=====	=====
86 Indeno(1,2,3-cd)pyrene	276	13.148	13.152	(1.003)	147970	0.25000	0.265
* 87 Dibenz(ah)anthracene-d14	292	13.118	13.118	(1.000)	193242	0.50000	0.500
\$ 88 Dibenz(ah)anthracene-d14 (SS)	292	13.118	13.118	(1.133)	193242	0.50000	0.497
89 Dibenz(a,h)anthracene	278	13.164	13.165	(1.004)	114948	0.25000	0.283
* 90 Benzo(ghi)perylene-d12	288	13.464	13.464	(1.000)	192770	0.50000	0.500
\$ 91 Benzo(ghi)perylene-d12 (SS)	288	13.464	13.464	(1.163)	192770	0.50000	0.498
92 Benzo(g,h,i)perylene	276	13.498	13.502	(1.002)	129877	0.25000	0.266

Data File: /var/chem/gcms/mp.i/P0801111.b/p011003.d
 Date : 01-AUG-2011 13:39
 Client ID: PAH0358
 Sample Info: P011003,1,3,,PAH0358
 Purge Volume: 1.0
 Column phase: Variant: SMS

Instrument: mp.i
 Operator: 11211
 Column diameter: 0.25



Data File: /var/chem/gcms/mp.i/P080111I.b/ph01ic04.d
Report Date: 01-Aug-2011 18:59

TestAmerica Knoxville

SEMIVOLATILE QUANTITATION REPORT

Data file : /var/chem/gcms/mp.i/P080111I.b/ph01ic04.d
Lab Smp Id: PH01IC04 Client Smp ID: PAH0359
Inj Date : 01-AUG-2011 14:04
Operator : 11211 Inst ID: mp.i
Smp Info : PH01IC04,,1,4,,PAH0359
Misc Info : P080111I,SIMPAH3
Comment :
Method : /var/chem/gcms/mp.i/P080111I.b/SIMPAH3.m
Meth Date : 01-Aug-2011 18:58 cochranj Quant Type: ISTD
Cal Date : 01-AUG-2011 14:04 Cal File: ph01ic04.d
Als bottle: 7 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 3.50

Concentration Formula: $\text{Amt} * \text{DF} * \text{Sf} * \text{Vt} / \text{Vo} * \text{CpndVariable}$

Name	Value	Description
DF	1.00000	Dilution Factor
Sf	1.00000	Split factor
Vt	500.00000	Volume of final extract (uL)
Vo	1.00000	Volume of sample extracted (sample)

Cpnd Variable

Local Compound Variable

Compounds	QUANT SIG	MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
							CAL-AMT (ug/ml)	ON-COL (ug/ml)
* 1 Naphthalene-d8	136	4.869	4.873	(1.000)	699877	0.50000	0.500	
\$ 2 Naphthalene-d8 (SS)	136	4.869	4.873	(0.770)	699877	0.50000	0.497	
3 Naphthalene	128	4.884	4.891	(1.003)	605073	0.50000	0.507	
\$ 222 13C6-Naphthalene	134	4.884	4.891	(1.003)	649557	0.50000	0.471	
* 10 2-Methylnaphthalene-d10	152	5.424	5.427	(1.000)	380342	0.50000	0.500	
\$ 11 2-Methylnaphthalene-d10 (SS)	152	5.424	5.427	(0.858)	380342	0.50000	0.498	
12 2-Methylnaphthalene	142	5.450	5.454	(1.005)	389838	0.50000	0.515	
* 13 1-Methylnaphthalene-d10	152	5.506	5.507	(1.000)	379679	0.50000	0.500	
\$ 14 1-Methylnaphthalene-d10 (SS)	152	5.506	5.507	(0.871)	379679	0.50000	0.495	
15 1-Methylnaphthalene	142	5.533	5.536	(1.005)	376167	0.50000	0.516	
16 Biphenyl	154	5.837	5.838	(1.076)	471181	0.50000	0.528	
* 17 2,6-Dimethylnaphthalene-d12	168	5.935	5.935	(1.000)	327434	0.50000	0.500	
\$ 18 2,6-Dimethylnaph-d12 (SS)	168	5.935	5.935	(0.938)	327434	0.50000	0.500	
19 2,6 Dimethylnaphthalene	156	5.971	5.971	(1.006)	333814	0.50000	0.525	
* 20 Acenaphthylene-d8	160	6.193	6.194	(1.000)	545116	0.50000	0.500	

Data File: /var/chem/gcms/mp.i/P080111I.b/ph01ic04.d

Report Date: 01-Aug-2011 18:59

Compounds	QUANT SIG					AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)
=====	=====	==	=====	=====	=====	=====	=====
\$ 21 Acenaphthylene-d8 (SS)	160	6.193	6.194	(0.979)	545116	0.50000	0.497
22 Acenaphthylene	152	6.205	6.205	(1.002)	552390	0.50000	0.530
* 23 Acenaphthene-d10	164	6.325	6.325	(1.000)	302753	0.50000	0.500
24 Acenaphthene	154	6.350	6.350	(1.025)	328799	0.50000	0.526
25 2,3,5 Trimethylnaphthalene	170	6.671	6.671	(1.124)	283908	0.50000	0.542
\$ 26 Fluorene-d10	176	6.761	6.761	(0.892)	298046	0.50000	0.540
27 Fluorene	166	6.783	6.786	(0.895)	390321	0.50000	0.545
\$ 28 13C6-Fluorene	171	6.783	6.786	(0.895)	338206	0.50000	0.546
* 34 Dibenzothiophene-d8	192	7.476	7.476	(1.000)	525584	0.50000	0.500
\$ 35 Dibenzothiophene-d8 (SS)	192	7.476	7.476	(0.841)	525584	0.50000	0.494
36 Dibenzothiophene	184	7.490	7.490	(1.002)	508930	0.50000	0.517
* 41 Phenanthrene-d10	188	7.580	7.580	(1.000)	475201	0.50000	0.500
\$ 42 Phenanthrene-d10 (SS)	188	7.580	7.580	(0.853)	475201	0.50000	0.495
43 Phenanthrene	178	7.598	7.599	(1.002)	527033	0.50000	0.515
* 44 Anthracene-d10	188	7.627	7.628	(1.000)	401583	0.50000	0.500
\$ 45 Anthracene-d10 (SS)	188	7.627	7.628	(0.858)	401583	0.50000	0.494
46 Anthracene	178	7.644	7.644	(1.002)	513293	0.50000	0.513
\$ 47 13C6-Anthracene	184	7.644	7.644	(0.860)	439614	0.50000	0.506
52 1-Methylphenanthrene	192	8.148	8.145	(1.075)	327639	0.50000	0.556
* 53 Fluoranthene-d10	212	8.667	8.667	(1.000)	452396	0.50000	0.500
\$ 54 Fluoranthene-d10 (SS)	212	8.667	8.667	(0.975)	452396	0.50000	0.495
55 Fluoranthene	202	8.685	8.684	(1.002)	507427	0.50000	0.523
* 56 Pyrene-d10	212	8.889	8.889	(1.000)	370793	0.50000	0.500
57 Pyrene	202	8.904	8.906	(1.027)	538160	0.50000	0.521
\$ 58 Terphenyl-d14	244	9.045	9.045	(1.044)	240211	0.50000	0.577
* 60 Benzo (a) anthracene-d12	240	10.104	10.104	(1.000)	232260	0.50000	0.500
\$ 61 Benzo (a) anthracene-d12 (SS)	240	10.104	10.104	(1.137)	232260	0.50000	0.501
62 Benzo (a) anthracene	228	10.125	10.125	(1.002)	347697	0.50000	0.538
* 63 Chrysene-d12	240	10.137	10.137	(1.000)	370908	0.50000	0.500
\$ 64 Chrysene-d12 (SS)	240	10.137	10.137	(1.140)	370908	0.50000	0.512
65 Chrysene	228	10.162	10.162	(1.002)	422150	0.50000	0.523
* 70 Benzo (b) fluoranthene-d12	264	11.259	11.258	(1.000)	242052	0.50000	0.500
\$ 71 Benzo (b) fluoranthene-d12 (SS)	264	11.259	11.258	(0.973)	242052	0.50000	0.491
72 Benzo (b) fluoranthene	252	11.283	11.282	(1.002)	333900	0.50000	0.505
* 73 Benzo (k) fluoranthene-d12	264	11.289	11.294	(1.000)	353554	0.50000	0.500
\$ 74 Benzo (k) fluoranthene-d12 (SS)	264	11.289	11.294	(0.975)	353554	0.50000	0.510
75 Benzo (k) fluoranthene	252	11.312	11.312	(1.002)	398883	0.50000	0.531
* 76 Benzo (e) pyrene-d12	264	11.575	11.575	(1.000)	233067	0.50000	0.500
77 Benzo (e) pyrene	252	11.605	11.605	(0.997)	338966	0.50000	0.524
* 78 Benzo (a) pyrene-d12	264	11.641	11.641	(1.000)	257374	0.50000	0.500
\$ 79 Benzo (a) pyrene-d12 (SS)	264	11.641	11.641	(1.006)	257374	0.50000	0.511
80 Benzo (a) pyrene	252	11.665	11.671	(1.002)	286204	0.50000	0.546
* 81 Perylene-d12	264	11.737	11.737	(1.000)	249364	0.50000	0.500
\$ 82 Perylene-d12 (SS)	264	11.737	11.737	(1.014)	249364	0.50000	0.514
83 Perylene	252	11.767	11.766	(1.003)	318185	0.50000	0.537
* 84 Indeno (123-cd) pyrene-d12	288	13.110	13.114	(1.000)	282855	0.50000	0.500
\$ 85 Indeno (123-cd) pyrene-d12 (SS)	288	13.110	13.114	(1.133)	282855	0.50000	0.506

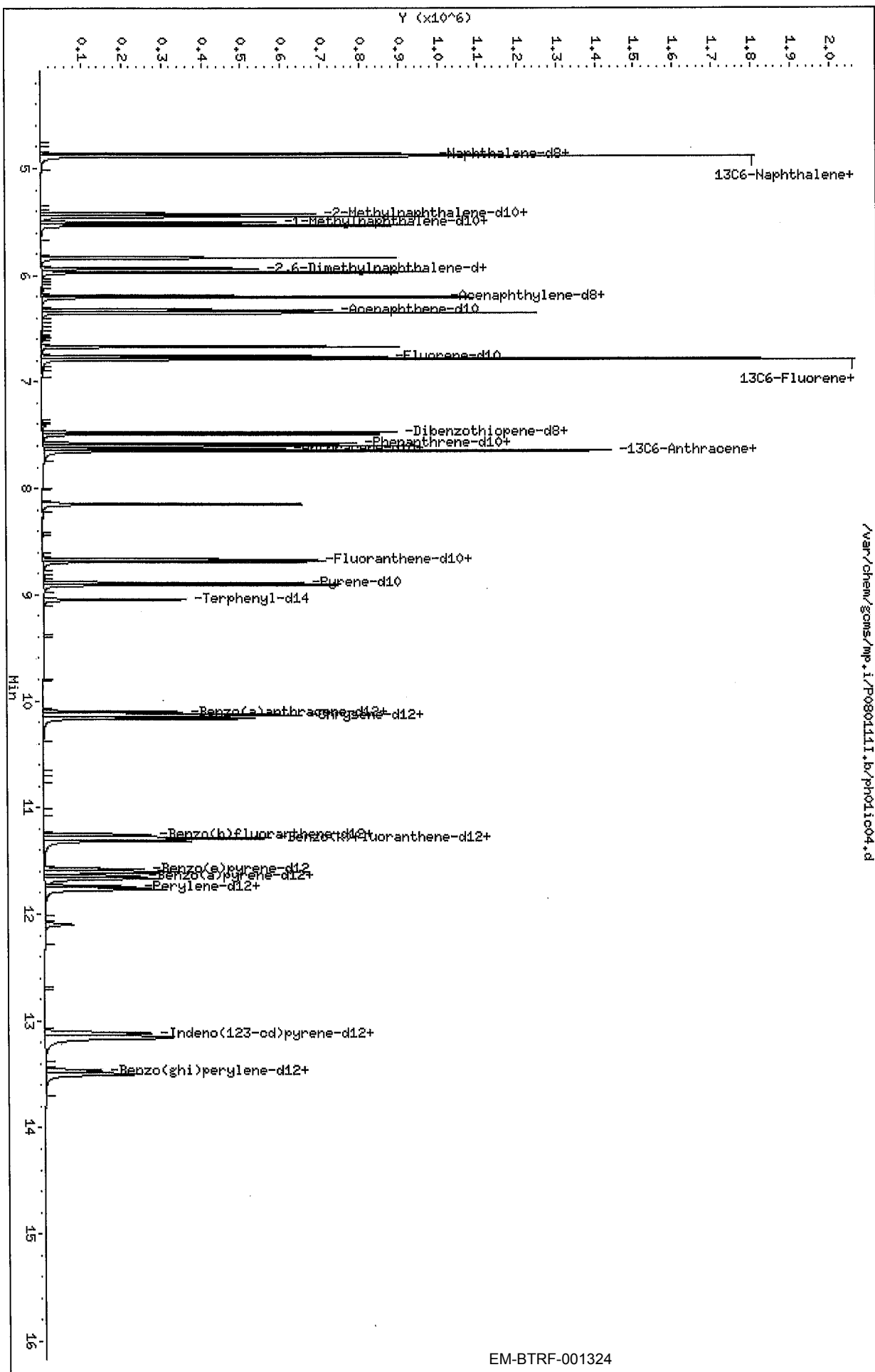
Data File: /var/chem/gcms/mp.i/P080111I.b/ph01ic04.d

Report Date: 01-Aug-2011 18:59

Compounds	QUANT SIG					AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)
=====	=====	==	=====	=====	=====	=====	=====
86 Indeno(1,2,3-cd)pyrene	276	13.144	13.152	(1.003)	334988	0.50000	0.531
* 87 Dibenz(ah)anthracene-d14	292	13.114	13.118	(1.000)	213909	0.50000	0.500
\$ 88 Dibenz(ah)anthracene-d14(SS)	292	13.114	13.118	(1.133)	213909	0.50000	0.509
89 Dibenz(a,h)anthracene	278	13.161	13.165	(1.004)	263489	0.50000	0.562
* 90 Benzo(ghi)perylene-d12	288	13.464	13.464	(1.000)	212111	0.50000	0.500
\$ 91 Benzo(ghi)perylene-d12(SS)	288	13.464	13.464	(1.163)	212111	0.50000	0.507
92 Benzo(g,h,i)perylene	276	13.498	13.502	(1.002)	290945	0.50000	0.531

Data File: /var/chem/gcms/mp.i/P0801111.b/ph01ic04.d
 Date: 01-AUG-2011 14:04
 Client ID: PAH0359
 Sample Info: PH01IC04,1,4,PAH0359
 Purge Volume: 1.0
 Column phase: Variant: SMS

Instrument: mp.i
 Operator: 11211
 Column diameter: 0.25



Data File: /var/chem/gcms/mp.i/P080111I.b/ph01ic05.d
 Report Date: 01-Aug-2011 18:59

TestAmerica Knoxville

SEMIVOLATILE QUANTITATION REPORT

Data file : /var/chem/gcms/mp.i/P080111I.b/ph01ic05.d
 Lab Smp Id: PH01IC05 Client Smp ID: PAH0360
 Inj Date : 01-AUG-2011 14:29
 Operator : 11211 Inst ID: mp.i
 Smp Info : PH01IC05,,1,5,,PAH0360
 Misc Info : P080111I,SIMPAH3
 Comment :
 Method : /var/chem/gcms/mp.i/P080111I.b/SIMPAH3.m
 Meth Date : 01-Aug-2011 18:58 cochranj Quant Type: ISTD
 Cal Date : 01-AUG-2011 14:29 Cal File: ph01ic05.d
 Als bottle: 8 Calibration Sample, Level: 5
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: pah.sub
 Target Version: 3.50

Concentration Formula: Amt * DF * Sf * Vt / Vo * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Sf	1.00000	Split factor
Vt	500.00000	Volume of final extract (uL)
Vo	1.00000	Volume of sample extracted (sample)

Cpnd Variable

Local Compound Variable

Compounds	QUANT SIG	MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
							CAL-AMT (ug/ml)	ON-COL (ug/ml)
* 1 Naphthalene-d8	=====	136	4.869	4.873	(1.000)	684320	0.50000	0.500
\$ 2 Naphthalene-d8 (SS)	=====	136	4.869	4.873	(0.770)	684320	0.50000	0.498
3 Naphthalene	=====	128	4.884	4.891	(1.003)	1177428	1.00000	1.01
\$ 222 13C6-Naphthalene	=====	134	4.884	4.891	(1.003)	1251256	1.00000	0.942
* 10 2-Methylnaphthalene-d10	=====	152	5.424	5.427	(1.000)	371191	0.50000	0.500
\$ 11 2-Methylnaphthalene-d10 (SS)	=====	152	5.424	5.427	(0.858)	371191	0.50000	0.498
12 2-Methylnaphthalene	=====	142	5.450	5.454	(1.005)	765941	1.00000	1.03
* 13 1-Methylnaphthalene-d10	=====	152	5.507	5.507	(1.000)	369895	0.50000	0.500
\$ 14 1-Methylnaphthalene-d10 (SS)	=====	152	5.507	5.507	(0.871)	369895	0.50000	0.495
15 1-Methylnaphthalene	=====	142	5.533	5.536	(1.005)	736319	1.00000	1.03
16 Biphenyl	=====	154	5.837	5.838	(1.076)	926875	1.00000	1.05
* 17 2,6-Dimethylnaphthalene-d12	=====	168	5.935	5.935	(1.000)	318500	0.50000	0.500
\$ 18 2,6-Dimethylnaph-d12 (SS)	=====	168	5.935	5.935	(0.938)	318500	0.50000	0.499
19 2,6 Dimethylnaphthalene	=====	156	5.971	5.971	(1.006)	656926	1.00000	1.05
* 20 Acenaphthylene-d8	=====	160	6.194	6.194	(1.000)	529762	0.50000	0.500

Data File: /var/chem/gcms/mp.i/P080111I.b/ph01ic05.d

Report Date: 01-Aug-2011 18:59

Compounds	QUANT SIG					AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)
=====	=====	==	=====	=====	=====	=====	=====
\$ 21 Acenaphthylene-d8 (SS)	160	6.194	6.194	(0.979)	529762	0.50000	0.496
22 Acenaphthylene	152	6.205	6.205	(1.002)	1100126	1.00000	1.07
* 23 Acenaphthene-d10	164	6.325	6.325	(1.000)	295717	0.50000	0.500
24 Acenaphthene	154	6.350	6.350	(1.025)	646091	1.00000	1.05
25 2,3,5 Trimethylnaphthalene	170	6.671	6.671	(1.124)	571797	1.00000	1.10
\$ 26 Fluorene-d10	176	6.761	6.761	(0.892)	590529	1.00000	1.07
27 Fluorene	166	6.783	6.786	(0.895)	770061	1.00000	1.08
\$ 28 13C6-Fluorene	171	6.783	6.786	(0.895)	665647	1.00000	1.08
* 34 Dibenzothiophene-d8	192	7.476	7.476	(1.000)	511649	0.50000	0.500
\$ 35 Dibenzothiophene-d8 (SS)	192	7.476	7.476	(0.841)	511649	0.50000	0.493
36 Dibenzothiophene	184	7.490	7.490	(1.002)	1001257	1.00000	1.04
* 41 Phenanthrene-d10	188	7.580	7.580	(1.000)	465380	0.50000	0.500
\$ 42 Phenanthrene-d10 (SS)	188	7.580	7.580	(0.853)	465380	0.50000	0.496
43 Phenanthrene	178	7.598	7.599	(1.002)	1041147	1.00000	1.03
* 44 Anthracene-d10	188	7.628	7.628	(1.000)	401349	0.50000	0.500
\$ 45 Anthracene-d10 (SS)	188	7.628	7.628	(0.858)	401349	0.50000	0.503
46 Anthracene	178	7.644	7.644	(1.002)	1019970	1.00000	1.02
\$ 47 13C6-Anthracene	184	7.644	7.644	(0.860)	436224	0.50000	0.510
52 1-Methylphenanthrene	192	8.145	8.145	(1.075)	669807	1.00000	1.12
* 53 Fluoranthene-d10	212	8.667	8.667	(1.000)	440831	0.50000	0.500
\$ 54 Fluoranthene-d10 (SS)	212	8.667	8.667	(0.975)	440831	0.50000	0.494
55 Fluoranthene	202	8.684	8.684	(1.002)	1012654	1.00000	1.06
* 56 Pyrene-d10	212	8.889	8.889	(1.000)	363154	0.50000	0.500
57 Pyrene	202	8.906	8.906	(1.028)	1065645	1.00000	1.05
\$ 58 Terphenyl-d14	244	9.045	9.045	(1.044)	489480	1.00000	1.16
* 60 Benzo(a)anthracene-d12	240	10.104	10.104	(1.000)	222967	0.50000	0.500
\$ 61 Benzo(a)anthracene-d12 (SS)	240	10.104	10.104	(1.137)	222967	0.50000	0.493
62 Benzo(a)anthracene	228	10.124	10.125	(1.002)	706451	1.00000	1.11
* 63 Chrysene-d12	240	10.137	10.137	(1.000)	371677	0.50000	0.500
\$ 64 Chrysene-d12 (SS)	240	10.137	10.137	(1.140)	371677	0.50000	0.519
65 Chrysene	228	10.162	10.162	(1.002)	836736	1.00000	1.03
* 70 Benzo(b)fluoranthene-d12	264	11.258	11.258	(1.000)	244388	0.50000	0.500
\$ 71 Benzo(b)fluoranthene-d12 (SS)	264	11.258	11.258	(0.973)	244388	0.50000	0.511
72 Benzo(b)fluoranthene	252	11.282	11.282	(1.002)	639262	1.00000	0.965
* 73 Benzo(k)fluoranthene-d12	264	11.288	11.294	(1.000)	329661	0.50000	0.500
\$ 74 Benzo(k)fluoranthene-d12 (SS)	264	11.288	11.294	(0.975)	329661	0.50000	0.495
75 Benzo(k)fluoranthene	252	11.312	11.312	(1.002)	811862	1.00000	1.12
* 76 Benzo(e)pyrene-d12	264	11.575	11.575	(1.000)	224780	0.50000	0.500
77 Benzo(e)pyrene	252	11.605	11.605	(0.997)	660504	1.00000	1.05
* 78 Benzo(a)pyrene-d12	264	11.641	11.641	(1.000)	247206	0.50000	0.500
\$ 79 Benzo(a)pyrene-d12 (SS)	264	11.641	11.641	(1.006)	247206	0.50000	0.507
80 Benzo(a)pyrene	252	11.665	11.671	(1.002)	590414	1.00000	1.13
* 81 Perylene-d12	264	11.737	11.737	(1.000)	243126	0.50000	0.500
\$ 82 Perylene-d12 (SS)	264	11.737	11.737	(1.014)	243126	0.50000	0.515
83 Perylene	252	11.766	11.766	(1.003)	639013	1.00000	1.08
* 84 Indeno(123-cd)pyrene-d12	288	13.114	13.114	(1.000)	268291	0.50000	0.500
\$ 85 Indeno(123-cd)pyrene-d12 (SS)	288	13.114	13.114	(1.133)	268291	0.50000	0.498

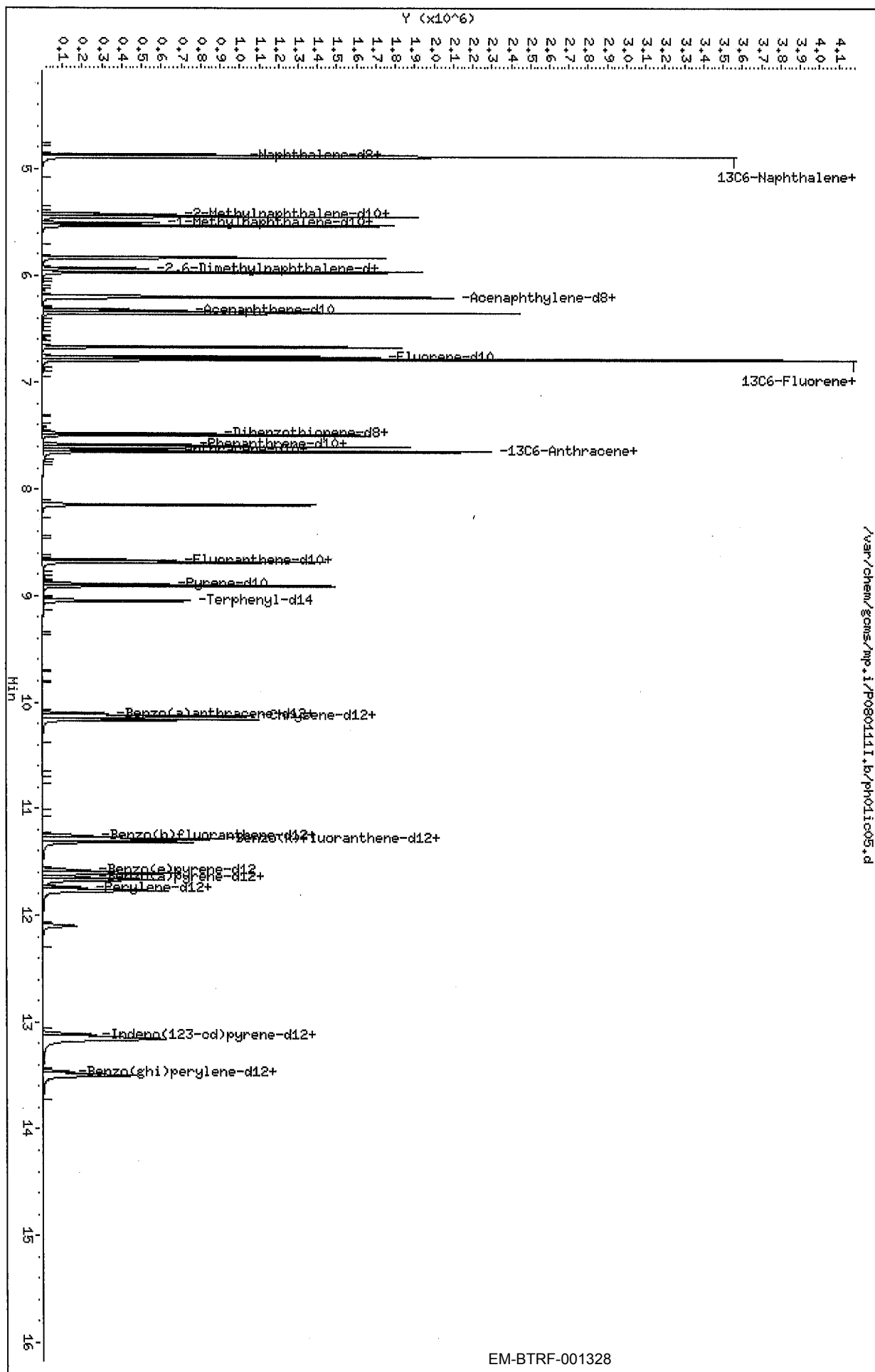
Data File: /var/chem/gcms/mp.i/P080111I.b/ph01ic05.d

Report Date: 01-Aug-2011 18:59

Compounds	QUANT SIG					AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)
=====	=====	==	=====	=====	=====	=====	=====
86 Indeno(1,2,3-cd)pyrene	276	13.143	13.152	(1.002)	661941	1.00000	1.08
* 87 Dibenz(ah)anthracene-d14	292	13.118	13.118	(1.000)	202611	0.50000	0.500
\$ 88 Dibenz(ah)anthracene-d14 (SS)	292	13.118	13.118	(1.133)	202611	0.50000	0.500
89 Dibenz(a,h)anthracene	278	13.160	13.165	(1.003)	524848	1.00000	1.14
* 90 Benzo(ghi)perylene-d12	288	13.464	13.464	(1.000)	201220	0.50000	0.500
\$ 91 Benzo(ghi)perylene-d12 (SS)	288	13.464	13.464	(1.163)	201220	0.50000	0.499
92 Benzo(g,h,i)perylene	276	13.498	13.502	(1.002)	570677	1.00000	1.08

Data File: /var/chem/gcms/mp.i/P0801111.b/ph01ic05.d
 Date: 01-AUG-2011 14:29
 Client ID: PAH0360
 Sample Info: PH01IC05,1,5,,PAH0360
 Purge Volume: 1.0
 Column phase: Variant SMS

Instrument: mp.i
 Operator: 11211
 Column diameter: 0.25



Data File: /var/chem/gcms/mp.i/P080111I.b/ph01ic06.d
 Report Date: 01-Aug-2011 18:59

TestAmerica Knoxville

SEMIVOLATILE QUANTITATION REPORT

Data file : /var/chem/gcms/mp.i/P080111I.b/ph01ic06.d
 Lab Smp Id: PH01IC06 Client Smp ID: PAH0361
 Inj Date : 01-AUG-2011 14:54
 Operator : 11211 Inst ID: mp.i
 Smp Info : PH01IC06,,1,6,,PAH0361
 Misc Info : P080111I,SIMPAH3
 Comment :
 Method : /var/chem/gcms/mp.i/P080111I.b/SIMPAH3.m
 Meth Date : 01-Aug-2011 18:58 cochranj Quant Type: ISTD
 Cal Date : 01-AUG-2011 14:54 Cal File: ph01ic06.d
 Als bottle: 9 Calibration Sample, Level: 6
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: pah.sub
 Target Version: 3.50

Concentration Formula: $\text{Amt} * \text{DF} * \text{Sf} * \text{Vt} / \text{Vo} * \text{CpndVariable}$

Name	Value	Description
DF	1.00000	Dilution Factor
Sf	1.00000	Split factor
Vt	500.00000	Volume of final extract (uL)
Vo	1.00000	Volume of sample extracted (sample)

Cpnd Variable

Local Compound Variable

Compounds	QUANT SIG	MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
							CAL-AMT (ug/ml)	ON-COL (ug/ml)
* 1 Naphthalene-d8	=====	136	4.869	4.873	(1.000)	700707	0.50000	0.500
\$ 2 Naphthalene-d8 (SS)	=====	136	4.869	4.873	(0.770)	700707	0.50000	0.489
3 Naphthalene	=====	128	4.887	4.891	(1.004)	2864851	2.50000	2.41
\$ 222 13C6-Naphthalene	=====	134	4.887	4.891	(1.004)	2961305	2.50000	2.22
* 10 2-Methylnaphthalene-d10	=====	152	5.424	5.427	(1.000)	385841	0.50000	0.500
\$ 11 2-Methylnaphthalene-d10 (SS)	=====	152	5.424	5.427	(0.858)	385841	0.50000	0.496
12 2-Methylnaphthalene	=====	142	5.450	5.454	(1.005)	1944946	2.50000	2.51
* 13 1-Methylnaphthalene-d10	=====	152	5.507	5.507	(1.000)	375906	0.50000	0.500
\$ 14 1-Methylnaphthalene-d10 (SS)	=====	152	5.507	5.507	(0.871)	375906	0.50000	0.484
15 1-Methylnaphthalene	=====	142	5.533	5.536	(1.005)	1848223	2.50000	2.53
16 Biphenyl	=====	154	5.835	5.838	(1.076)	2350018	2.50000	2.55
* 17 2,6-Dimethylnaphthalene-d12	=====	168	5.935	5.935	(1.000)	330307	0.50000	0.500
\$ 18 2,6-Dimethylnaph-d12 (SS)	=====	168	5.935	5.935	(0.938)	330307	0.50000	0.495
19 2,6 Dimethylnaphthalene	=====	156	5.971	5.971	(1.006)	1691764	2.50000	2.59
* 20 Acenaphthylene-d8	=====	160	6.194	6.194	(1.000)	561371	0.50000	0.500

Data File: /var/chem/gcms/mp.i/P080111I.b/ph01ic06.d

Report Date: 01-Aug-2011 18:59

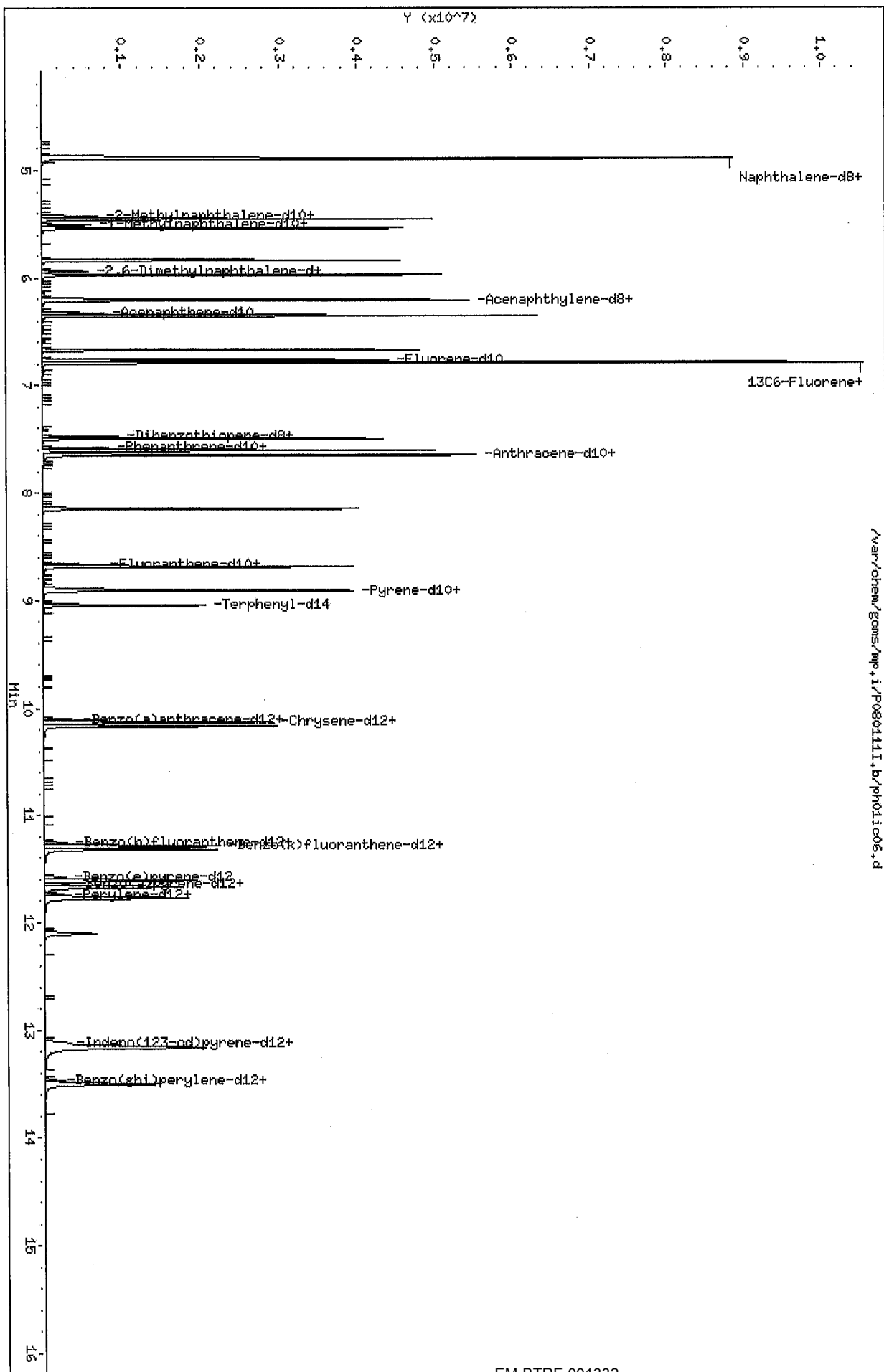
Compounds	QUANT SIG					AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)
=====	=====	==	=====	=====	=====	=====	=====
\$ 21 Acenaphthylene-d8 (SS)	160	6.194	6.194	(0.979)	561371	0.50000	0.501
22 Acenaphthylene	152	6.205	6.205	(1.002)	2906431	2.50000	2.63
* 23 Acenaphthene-d10	164	6.325	6.325	(1.000)	309706	0.50000	0.500
24 Acenaphthene	154	6.350	6.350	(1.025)	1669370	2.50000	2.55
25 2,3,5 Trimethylnaphthalene	170	6.671	6.671	(1.124)	1507933	2.50000	2.73
\$ 26 Fluorene-d10	176	6.761	6.761	(0.892)	1535392	2.50000	2.61
27 Fluorene	166	6.783	6.786	(0.895)	1934354	2.50000	2.55
\$ 28 13C6-Fluorene	171	6.783	6.786	(0.895)	1684442	2.50000	2.56
* 34 Dibenzothiophene-d8	192	7.476	7.476	(1.000)	542182	0.50000	0.500
\$ 35 Dibenzothiophene-d8 (SS)	192	7.476	7.476	(0.841)	542182	0.50000	0.486
36 Dibenzothiophene	184	7.490	7.490	(1.002)	2630992	2.50000	2.56
* 41 Phenanthrene-d10	188	7.580	7.580	(1.000)	492019	0.50000	0.500
\$ 42 Phenanthrene-d10 (SS)	188	7.580	7.580	(0.853)	492019	0.50000	0.488
43 Phenanthrene	178	7.598	7.599	(1.002)	2725131	2.50000	2.54
* 44 Anthracene-d10	188	7.628	7.628	(1.000)	433737	0.50000	0.500
\$ 45 Anthracene-d10 (SS)	188	7.628	7.628	(0.858)	433737	0.50000	0.503
46 Anthracene	178	7.644	7.644	(1.002)	2745556	2.50000	2.52
\$ 47 13C6-Anthracene	184	7.644	7.644	(0.860)	448933	0.50000	0.488
52 1-Methylphenanthrene	192	8.145	8.145	(1.075)	1834410	2.50000	2.83
* 53 Fluoranthene-d10	212	8.667	8.667	(1.000)	473877	0.50000	0.500
\$ 54 Fluoranthene-d10 (SS)	212	8.667	8.667	(0.975)	473877	0.50000	0.493
55 Fluoranthene	202	8.684	8.684	(1.002)	2721706	2.50000	2.62
* 56 Pyrene-d10	212	8.889	8.889	(1.000)	392201	0.50000	0.500
57 Pyrene	202	8.906	8.906	(1.028)	2847419	2.50000	2.58
\$ 58 Terphenyl-d14	244	9.045	9.045	(1.044)	1319618	2.50000	2.83
* 60 Benzo(a) anthracene-d12	240	10.104	10.104	(1.000)	252070	0.50000	0.500
\$ 61 Benzo(a) anthracene-d12 (SS)	240	10.104	10.104	(1.137)	252070	0.50000	0.513
62 Benzo(a) anthracene	228	10.124	10.125	(1.002)	2043813	2.50000	2.77
* 63 Chrysene-d12	240	10.137	10.137	(1.000)	403828	0.50000	0.500
\$ 64 Chrysene-d12 (SS)	240	10.137	10.137	(1.140)	403828	0.50000	0.518
65 Chrysene	228	10.162	10.162	(1.002)	2253174	2.50000	2.54
* 70 Benzo(b) fluoranthene-d12	264	11.258	11.258	(1.000)	269913	0.50000	0.500
\$ 71 Benzo(b) fluoranthene-d12 (SS)	264	11.258	11.258	(0.973)	269913	0.50000	0.501
72 Benzo(b) fluoranthene	252	11.282	11.282	(1.002)	1986042	2.50000	2.68
* 73 Benzo(k) fluoranthene-d12	264	11.288	11.294	(1.000)	377037	0.50000	0.500
\$ 74 Benzo(k) fluoranthene-d12 (SS)	264	11.288	11.294	(0.975)	377037	0.50000	0.502
75 Benzo(k) fluoranthene	252	11.312	11.312	(1.002)	2109179	2.50000	2.54
* 76 Benzo(e) pyrene-d12	264	11.575	11.575	(1.000)	253443	0.50000	0.500
77 Benzo(e) pyrene	252	11.605	11.605	(0.997)	1877071	2.50000	2.56
* 78 Benzo(a) pyrene-d12	264	11.641	11.641	(1.000)	286298	0.50000	0.500
\$ 79 Benzo(a) pyrene-d12 (SS)	264	11.641	11.641	(1.006)	286298	0.50000	0.517
80 Benzo(a) pyrene	252	11.671	11.671	(1.003)	1780615	2.50000	2.86
* 81 Perylene-d12	264	11.737	11.737	(1.000)	275858	0.50000	0.500
\$ 82 Perylene-d12 (SS)	264	11.737	11.737	(1.014)	275858	0.50000	0.516
83 Perylene	252	11.766	11.766	(1.003)	1859931	2.50000	2.73
* 84 Indeno(123-cd)pyrene-d12	288	13.114	13.114	(1.000)	308704	0.50000	0.500
\$ 85 Indeno(123-cd)pyrene-d12 (SS)	288	13.114	13.114	(1.133)	308704	0.50000	0.507

Data File: /var/chem/gcms/mp.i/P080111I.b/ph01ic06.d
 Report Date: 01-Aug-2011 18:59

Compounds	QUANT SIG					AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)
=====	=====	==	=====	=====	=====	=====	=====
86 Indeno(1,2,3-cd)pyrene	276	13.148	13.152	(1.003)	1951617	2.50000	2.72
* 87 Dibenz(ah)anthracene-d14	292	13.118	13.118	(1.000)	234867	0.50000	0.500
\$ 88 Dibenz(ah)anthracene-d14(SS)	292	13.118	13.118	(1.133)	234867	0.50000	0.512
89 Dibenz(a,h)anthracene	278	13.160	13.165	(1.003)	1568970	2.50000	2.86
* 90 Benzo(ghi)perylene-d12	288	13.464	13.464	(1.000)	230996	0.50000	0.500
\$ 91 Benzo(ghi)perylene-d12(SS)	288	13.464	13.464	(1.163)	230996	0.50000	0.507
92 Benzo(g,h,i)perylene	276	13.498	13.502	(1.002)	1660698	2.50000	2.69

Data File: /var/chem/gcms/mp.i/P0801111.b/photio06.d
 Date: 01-AUG-2011 14:54
 Client ID: PAH0361
 Sample Info: PH01C06,1,6,PAH0361
 Purge Volume: 1.0
 Column phase: Variant 5MS

Instrument: mp.i
 Operator: 11211
 Column diameter: 0.25



Data File: /var/chem/gcms/mp.i/P080111I.b/ph01ic07.d
 Report Date: 01-Aug-2011 18:59

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SEMIVOLATILE QUANTITATION REPORT

Data file : /var/chem/gcms/mp.i/P080111I.b/ph01ic07.d
 Lab Smp Id: PH01IC07 Client Smp ID: PAH0316
 Inj Date : 01-AUG-2011 15:19
 Operator : 11211 Inst ID: mp.i
 Smp Info : PH01IC07,,1,7,,PAH0316
 Misc Info : P080111I,SIMPAH3
 Comment :
 Method : /var/chem/gcms/mp.i/P080111I.b/SIMPAH3.m
 Meth Date : 01-Aug-2011 18:58 cochranej Quant Type: ISTD
 Cal Date : 01-AUG-2011 15:19 Cal File: ph01ic07.d
 Als bottle: 10 Calibration Sample, Level: 7
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: pah.sub
 Target Version: 3.50

Concentration Formula: Amt * DF * Sf*Vt/Vo * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Sf	1.00000	Split factor
Vt	500.00000	Volume of final extract (uL)
Vo	1.00000	Volume of sample extracted (sample)

Cpnd Variable

Local Compound Variable

Compounds	QUANT SIG	MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
							CAL-AMT (ug/ml)	ON-COL (ug/ml)
* 1 Naphthalene-d8	=====	136	4.873	4.873	(1.000)	676180	0.50000	0.500
\$ 2 Naphthalene-d8(SS)	=====	136	4.873	4.873	(0.770)	676180	0.50000	0.506
3 Naphthalene	=====	128	4.891	4.891	(1.004)	5265255	5.00000	4.64
\$ 222 13C6-Naphthalene	=====	134	4.891	4.891	(1.004)	5192212	5.00000	4.16
* 10 2-Methylnaphthalene-d10	=====	152	5.427	5.427	(1.000)	367285	0.50000	0.500
\$ 11 2-Methylnaphthalene-d10(SS)	=====	152	5.427	5.427	(0.858)	367285	0.50000	0.506
12 2-Methylnaphthalene	=====	142	5.454	5.454	(1.005)	3658872	5.00000	4.97
* 13 1-Methylnaphthalene-d10	=====	152	5.507	5.507	(1.000)	357474	0.50000	0.500
\$ 14 1-Methylnaphthalene-d10(SS)	=====	152	5.507	5.507	(0.871)	357474	0.50000	0.495
15 1-Methylnaphthalene	=====	142	5.536	5.536	(1.005)	3455053	5.00000	4.98
16 Biphenyl	=====	154	5.838	5.838	(1.076)	4397508	5.00000	5.02
* 17 2,6-Dimethylnaphthalene-d12	=====	168	5.935	5.935	(1.000)	313227	0.50000	0.500
\$ 18 2,6-Dimethylnaph-d12(SS)	=====	168	5.935	5.935	(0.938)	313227	0.50000	0.504
19 2,6 Dimethylnaphthalene	=====	156	5.971	5.971	(1.006)	3179333	5.00000	5.11
* 20 Acenaphthylene-d8	=====	160	6.194	6.194	(1.000)	540786	0.50000	0.500

Data File: /var/chem/gcms/mp.i/P080111I.b/ph01ic07.d

Report Date: 01-Aug-2011 18:59

Compounds	QUANT SIG	MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
							CAL-AMT	ON-COL
							(ug/ml)	(ug/ml)
=====	=====	=====	=====	=====	=====	=====	=====	=====
\$ 21 Acenaphthylene-d8 (SS)		160	6.194	6.194	(0.979)	540786	0.50000	0.516
22 Acenaphthylene		152	6.205	6.205	(1.002)	5558479	5.00000	5.19
* 23 Acenaphthene-d10		164	6.325	6.325	(1.000)	288122	0.50000	0.500
24 Acenaphthene		154	6.350	6.350	(1.025)	3142369	5.00000	4.98
25 2,3,5 Trimethylnaphthalene		170	6.671	6.671	(1.124)	2841271	5.00000	5.37
\$ 26 Fluorene-d10		176	6.761	6.761	(0.892)	2808242	5.00000	5.03
27 Fluorene		166	6.786	6.786	(0.895)	3508187	5.00000	4.89
\$ 28 13C6-Fluorene		171	6.786	6.786	(0.895)	2970438	5.00000	4.80
* 34 Dibenzothiophene-d8		192	7.476	7.476	(1.000)	517416	0.50000	0.500
\$ 35 Dibenzothiophene-d8 (SS)		192	7.476	7.476	(0.841)	517416	0.50000	0.503
36 Dibenzothiophene		184	7.490	7.490	(1.002)	4971469	5.00000	5.05
* 41 Phenanthrene-d10		188	7.580	7.580	(1.000)	466404	0.50000	0.500
\$ 42 Phenanthrene-d10 (SS)		188	7.580	7.580	(0.853)	466404	0.50000	0.502
43 Phenanthrene		178	7.599	7.599	(1.002)	5117220	5.00000	5.03
* 44 Anthracene-d10		188	7.628	7.628	(1.000)	425452	0.50000	0.500
\$ 45 Anthracene-d10 (SS)		188	7.628	7.628	(0.858)	425452	0.50000	0.530
46 Anthracene		178	7.644	7.644	(1.002)	5181868	5.00000	4.88
\$ 47 13C6-Anthracene		184	7.644	7.644	(0.860)	421973	0.50000	0.499
52 1-Methylphenanthrene		192	8.145	8.145	(1.075)	3503312	5.00000	5.60
* 53 Fluoranthene-d10		212	8.667	8.667	(1.000)	446254	0.50000	0.500
\$ 54 Fluoranthene-d10 (SS)		212	8.667	8.667	(0.975)	446254	0.50000	0.504
55 Fluoranthene		202	8.684	8.684	(1.002)	5176170	5.00000	5.24
* 56 Pyrene-d10		212	8.889	8.889	(1.000)	361208	0.50000	0.500
57 Pyrene		202	8.906	8.906	(1.028)	5375176	5.00000	5.15
\$ 58 Terphenyl-d14		244	9.045	9.045	(1.044)	2411870	5.00000	5.42
* 60 Benzo(a)anthracene-d12		240	10.104	10.104	(1.000)	241026	0.50000	0.500
\$ 61 Benzo(a)anthracene-d12 (SS)		240	10.104	10.104	(1.137)	241026	0.50000	0.528
62 Benzo(a)anthracene		228	10.125	10.125	(1.002)	3961358	5.00000	5.52
* 63 Chrysene-d12		240	10.137	10.137	(1.000)	378887	0.50000	0.500
\$ 64 Chrysene-d12 (SS)		240	10.137	10.137	(1.140)	378887	0.50000	0.524
65 Chrysene		228	10.162	10.162	(1.002)	4187639	5.00000	5.02
* 70 Benzo(b)fluoranthene-d12		264	11.258	11.258	(1.000)	253088	0.50000	0.500
\$ 71 Benzo(b)fluoranthene-d12 (SS)		264	11.258	11.258	(0.973)	253088	0.50000	0.504
72 Benzo(b)fluoranthene		252	11.282	11.282	(1.002)	3718557	5.00000	5.29
* 73 Benzo(k)fluoranthene-d12		264	11.294	11.294	(1.000)	360375	0.50000	0.500
\$ 74 Benzo(k)fluoranthene-d12 (SS)		264	11.294	11.294	(0.976)	360375	0.50000	0.513
75 Benzo(k)fluoranthene		252	11.312	11.312	(1.002)	4083323	5.00000	5.13
* 76 Benzo(e)pyrene-d12		264	11.575	11.575	(1.000)	235599	0.50000	0.500
77 Benzo(e)pyrene		252	11.605	11.605	(0.997)	3556378	5.00000	5.05
* 78 Benzo(a)pyrene-d12		264	11.641	11.641	(1.000)	274977	0.50000	0.500
\$ 79 Benzo(a)pyrene-d12 (SS)		264	11.641	11.641	(1.006)	274977	0.50000	0.529
80 Benzo(a)pyrene		252	11.671	11.671	(1.003)	3309445	5.00000	5.46
* 81 Perylene-d12		264	11.737	11.737	(1.000)	269729	0.50000	0.500
\$ 82 Perylene-d12 (SS)		264	11.737	11.737	(1.014)	269729	0.50000	0.536
83 Perylene		252	11.766	11.766	(1.003)	3582155	5.00000	5.32
* 84 Indeno(123-cd)pyrene-d12		288	13.114	13.114	(1.000)	291957	0.50000	0.500
\$ 85 Indeno(123-cd)pyrene-d12 (SS)		288	13.114	13.114	(1.133)	291957	0.50000	0.513

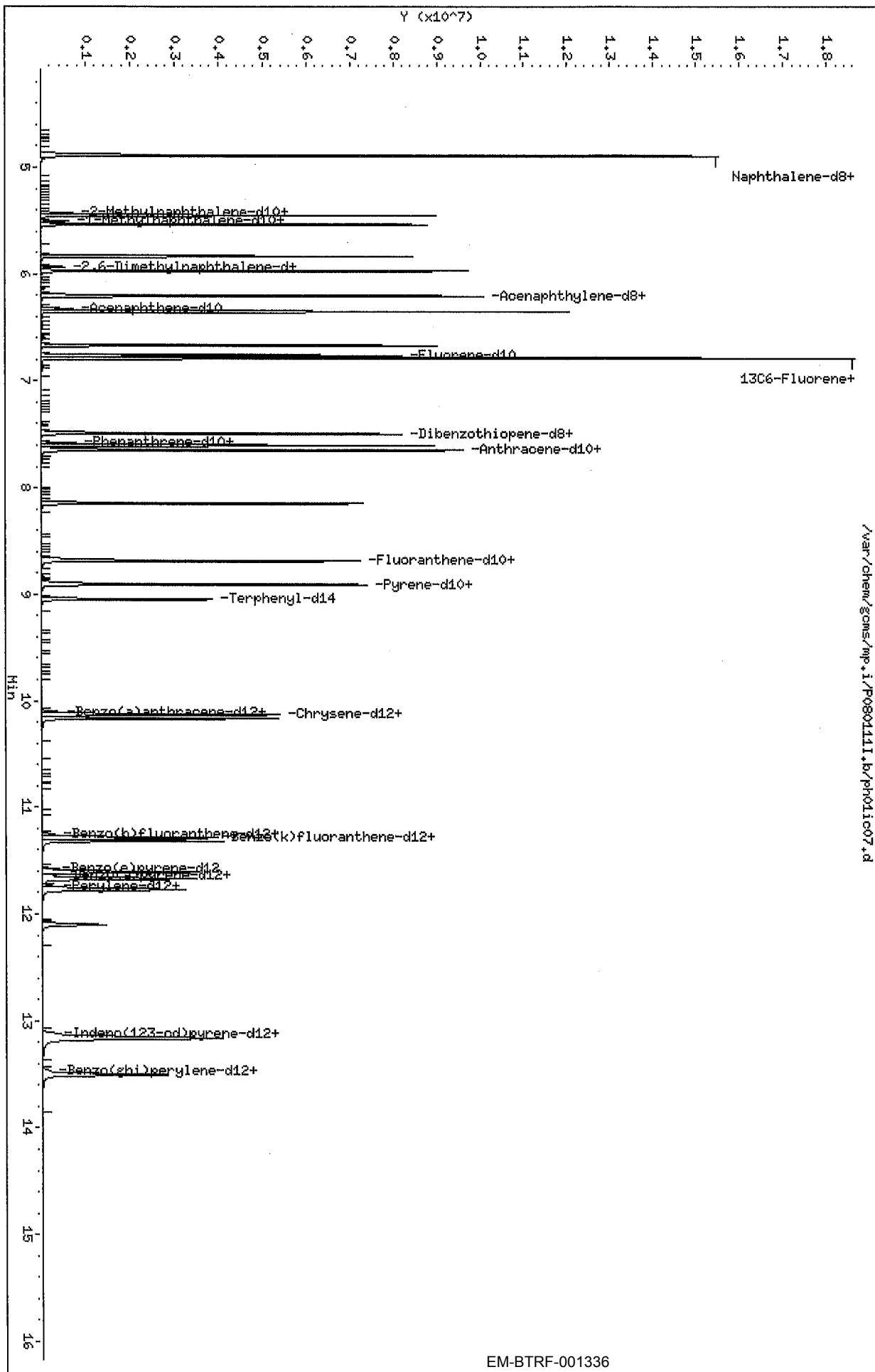
Data File: /var/chem/gcms/mp.i/P080111I.b/ph01ic07.d

Report Date: 01-Aug-2011 18:59

Compounds	QUANT SIG					AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)
=====	=====	==	=====	=====	=====	=====	=====
86 Indeno(1,2,3-cd)pyrene	276	13.152	13.152	(1.003)	3784863	5.00000	5.49
* 87 Dibenz(ah)anthracene-d14	292	13.118	13.118	(1.000)	222826	0.50000	0.500
\$ 88 Dibenz(ah)anthracene-d14(SS)	292	13.118	13.118	(1.133)	222826	0.50000	0.519
89 Dibenz(a,h)anthracene	278	13.165	13.165	(1.004)	3044481	5.00000	5.70
* 90 Benzo(ghi)perylene-d12	288	13.464	13.464	(1.000)	217654	0.50000	0.500
\$ 91 Benzo(ghi)perylene-d12(SS)	288	13.464	13.464	(1.163)	217654	0.50000	0.511
92 Benzo(g,h,i)perylene	276	13.502	13.502	(1.003)	3225329	5.00000	5.46

Data File: /var/chem/gcms/mp.i/P080111.b/p01ic07.d
 Date : 01-AUG-2011 15:19
 Client ID: PAH0316
 Sample Info: P01IC07,1,7,,PAH0316
 Purge Volume: 1.0
 Column phase: Variant SMS

Instrument: mp.i
 Operator: 11211
 Column diameter: 0.25



Data File: /var/chem/gcms/mp.i/P080111I.b/ph01icv.d
 Report Date: 01-Aug-2011 18:59

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SEMIVOLATILE QUANTITATION REPORT

Data file : /var/chem/gcms/mp.i/P080111I.b/ph01icv.d
 Lab Smp Id: PH01ICV
 Inj Date : 01-AUG-2011 16:08
 Operator : 11211
 Smp Info : PH01ICV,,3,,PAH0309
 Misc Info : P080111I,SIMPAH3
 Comment :
 Method : /var/chem/gcms/mp.i/P080111I.b/SIMPAH3.m
 Meth Date : 01-Aug-2011 18:58 cochranj
 Cal Date : 01-AUG-2011 15:19
 Als bottle: 12
 Dil Factor: 1.00000
 Integrator: HP RTE
 Target Version: 3.50

Inst ID: mp.i
 Quant Type: ISTD
 Cal File: ph01ic07.d
 QC Sample: 2ND SOURCE
 Compound Sublist: pah.sub

Concentration Formula: Amt * DF * Sf*Vt/Vo * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Sf	1.00000	Split factor
Vt	500.00000	Volume of final extract (uL)
Vo	1.00000	Volume of sample extracted (sample)

Cpnd Variable

Local Compound Variable

Compounds	QUANT SIG	MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN (ug/ml)	FINAL (ng/sample)
* 1 Naphthalene-d8	=====	136	4.869	4.873	(1.000)	660863	0.50000	0.500
\$ 2 Naphthalene-d8 (SS)	=====	136	4.869	4.873	(0.769)	660863	0.49603	248
3 Naphthalene	=====	128	4.884	4.891	(1.003)	581887	0.52518	263
\$ 222 13C6-Naphthalene	=====	134	4.869	4.891	(1.000)	59052	0.04836	24.2 (R)
* 10 2-Methylnaphthalene-d10	=====	152	5.427	5.427	(1.000)	369456	0.50000	0.500
\$ 11 2-Methylnaphthalene-d10 (SS)	=====	152	5.427	5.427	(0.858)	369456	0.51018	255
12 2-Methylnaphthalene	=====	142	5.450	5.454	(1.004)	380190	0.51337	257
* 13 1-Methylnaphthalene-d10	=====	152	5.507	5.507	(1.000)	361478	0.50000	0.500
\$ 14 1-Methylnaphthalene-d10 (SS)	=====	152	5.507	5.507	(0.870)	361478	0.50172	251
15 1-Methylnaphthalene	=====	142	5.533	5.536	(1.005)	375457	0.53571	268
16 Biphenyl	=====	154	5.837	5.838	(1.076)	446168	0.50587	253
* 17 2,6-Dimethylnaphthalene-d12	=====	168	5.937	5.935	(1.000)	308569	0.50000	0.500
\$ 18 2,6-Dimethylnaph-d12 (SS)	=====	168	5.937	5.935	(0.938)	308569	0.49727	249
19 2,6 Dimethylnaphthalene	=====	156	5.971	5.971	(1.006)	314453	0.51268	256
* 20 Acenaphthylene-d8	=====	160	6.196	6.194	(1.000)	513389	0.50000	0.500

Data File: /var/chem/gcms/mp.i/P080111I.b/ph01icv.d
Report Date: 01-Aug-2011 18:59

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/ml)	FINAL (ng/sample)
=====	=====	==	=====	=====	=====	=====	=====
\$ 21 Acenaphthylene-d8 (SS)	160	6.196	6.194	(0.979)	513389	0.49132	246
22 Acenaphthylene	152	6.208	6.205	(1.002)	519260	0.51094	255
* 23 Acenaphthene-d10	164	6.327	6.325	(1.000)	287495	0.50000	0.500
24 Acenaphthene	154	6.353	6.350	(1.025)	320605	0.53563	268
25 2,3,5 Trimethylnaphthalene	170	6.671	6.671	(1.124)	273082	0.52355	262
\$ 26 Fluorene-d10	176	6.763	6.761	(0.892)	306	0.000581	0.290(R)
27 Fluorene	166	6.786	6.786	(0.895)	349180	0.51420	257
\$ 28 13C6-Fluorene	171	6.788	6.786	(0.896)	218	0.000373	0.187(R)
* 34 Dibenzothiophene-d8	192	7.476	7.476	(1.000)	486131	0.50000	0.500
\$ 35 Dibenzothiophene-d8 (SS)	192	7.476	7.476	(0.841)	486131	0.50181	251
36 Dibenzothiophene	184	7.493	7.490	(1.002)	480613	0.51990	260
* 41 Phenanthrene-d10	188	7.580	7.580	(1.000)	441837	0.50000	0.500
\$ 42 Phenanthrene-d10 (SS)	188	7.580	7.580	(0.853)	441837	0.50457	252
43 Phenanthrene	178	7.601	7.599	(1.003)	521057	0.54101	271
* 44 Anthracene-d10	188	7.628	7.628	(1.000)	368517	0.50000	0.500
\$ 45 Anthracene-d10 (SS)	188	7.628	7.628	(0.858)	368517	0.48750	244
46 Anthracene	178	7.644	7.644	(1.002)	442240	0.48050	240
\$ 47 13C6-Anthracene	184	7.644	7.644	(0.860)	390580	0.48992	245
52 1-Methylphenanthrene	192	8.148	8.145	(1.075)	315003	0.53127	266
* 53 Fluoranthene-d10	212	8.667	8.667	(1.000)	417169	0.50000	0.500
\$ 54 Fluoranthene-d10 (SS)	212	8.667	8.667	(0.975)	417169	0.49974	250
55 Fluoranthene	202	8.687	8.684	(1.002)	488847	0.52962	265
* 56 Pyrene-d10	212	8.889	8.889	(1.000)	340219	0.50000	0.500
57 Pyrene	202	8.906	8.906	(1.028)	508269	0.52109	261
\$ 58 Terphenyl-d14	244	9.058	9.045	(1.045)	158	0.00038	0.190(R)
* 60 Benzo(a)anthracene-d12	240	10.103	10.104	(1.000)	205478	0.50000	0.500
\$ 61 Benzo(a)anthracene-d12 (SS)	240	10.103	10.104	(1.137)	205478	0.47773	239
62 Benzo(a)anthracene	228	10.124	10.125	(1.002)	314832	0.51476	257
* 63 Chrysene-d12	240	10.137	10.137	(1.000)	346927	0.50000	0.500
\$ 64 Chrysene-d12 (SS)	240	10.137	10.137	(1.140)	346927	0.50924	255
65 Chrysene	228	10.162	10.162	(1.002)	399082	0.52299	261
* 70 Benzo(b)fluoranthene-d12	264	11.258	11.258	(1.000)	229113	0.50000	0.500
\$ 71 Benzo(b)fluoranthene-d12 (SS)	264	11.258	11.258	(0.973)	229113	0.50854	254
72 Benzo(b)fluoranthene	252	11.282	11.282	(1.002)	339440	0.53368	267
* 73 Benzo(k)fluoranthene-d12	264	11.288	11.294	(1.000)	311793	0.50000	0.500
\$ 74 Benzo(k)fluoranthene-d12 (SS)	264	11.288	11.294	(0.975)	311793	0.49469	247
75 Benzo(k)fluoranthene	252	11.312	11.312	(1.002)	358467	0.52055	260
* 76 Benzo(e)pyrene-d12	264	11.575	11.575	(1.000)	211533	0.50000	0.500
77 Benzo(e)pyrene	252	11.605	11.605	(0.997)	320956	0.54146	271
* 78 Benzo(a)pyrene-d12	264	11.641	11.641	(1.000)	231364	0.50000	0.500
\$ 79 Benzo(a)pyrene-d12 (SS)	264	11.641	11.641	(1.006)	231364	0.49581	248
80 Benzo(a)pyrene	252	11.671	11.671	(1.003)	266770	0.52301	262
* 81 Perylene-d12	264	11.742	11.737	(1.000)	228284	0.50000	0.500
\$ 82 Perylene-d12 (SS)	264	11.742	11.737	(1.014)	228284	0.50503	253
83 Perylene	252	11.766	11.766	(1.002)	292518	0.51321	257
* 84 Indeno(123-cd)pyrene-d12	288	13.114	13.114	(1.000)	248237	0.50000	0.500
\$ 85 Indeno(123-cd)pyrene-d12 (SS)	288	13.114	13.114	(1.133)	248237	0.48624	243

7/11
8.2.11

Data File: /var/chem/gcms/mp.i/P080111I.b/ph01icv.d
 Report Date: 01-Aug-2011 18:59

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/ml)	FINAL (ng/sample)
=====	=====	==	=====	=====	=====	=====	=====
86 Indeno(1,2,3-cd)pyrene	276	13.148	13.152	(1.003)	294355	0.50260	251
* 87 Dibenz(ah)anthracene-d14	292	13.118	13.118	(1.000)	186685	0.50000	0.500
\$ 88 Dibenz(ah)anthracene-d14(SS)	292	13.118	13.118	(1.133)	186685	0.48416	242
89 Dibenz(a,h)anthracene	278	13.165	13.165	(1.004)	240042	0.53681	268
* 90 Benzo(ghi)perylene-d12	288	13.464	13.464	(1.000)	187991	0.50000	0.500
\$ 91 Benzo(ghi)perylene-d12(SS)	288	13.464	13.464	(1.163)	187991	0.49203	246
92 Benzo(g,h,i)perylene	276	13.498	13.502	(1.002)	265609	0.52037	260

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

Data File: /var/chem/gcms/mp.i/P080111I.b/ph01icv.d
 Report Date: 01-Aug-2011 18:59

TestAmerica Knoxville

RECOVERY REPORT

Client Name: ITSBUR

Sample Matrix: GAS

Lab Smp Id: PH01ICV

Level: LOW

Data Type: MS DATA

SpikeList File: icv.spk

Sublist File: pah.sub

Method File: /var/chem/gcms/mp.i/P080111I.b/SIMPAH3.m

Misc Info: P080111I,SIMPAH3

Client SDG: P080111I

Fraction: SV

Operator: 11211

SampleType: 2ND SOURCE

Quant Type: ISTD

SPIKE COMPOUND	CONC ADDED ng/sample	CONC RECOVERED ng/sample	% RECOVERED	LIMITS
3 Naphthalene	250	263	105.04	70-130
12 2-Methylnaphthalen	250	257	102.67	70-130
15 1-Methylnaphthalen	250	268	107.14	70-130
16 Biphenyl	250	253	101.17	70-130
19 2,6 Dimethylnaphth	250	256	102.54	70-130
22 Acenaphthylene	250	255	102.19	70-130
24 Acenaphthene	250	268	107.13	70-130
25 2,3,5 Trimethylnap	250	262	104.71	70-130
27 Fluorene	250	257	102.84	70-130
36 Dibenzothiophene	250	260	103.98	70-130
43 Phenanthrene	250	271	108.20	70-130
46 Anthracene	250	240	96.10	70-130
52 1-Methylphenanthre	250	266	106.25	70-130
55 Fluoranthene	250	265	105.92	70-130
57 Pyrene	250	261	104.22	70-130
62 Benzo(a) anthracene	250	257	102.95	70-130
65 Chrysene	250	261	104.60	70-130
72 Benzo(b) fluoranthe	250	267	106.74	70-130
75 Benzo(k) fluoranthe	250	260	104.11	70-130
77 Benzo(e) pyrene	250	271	108.29	70-130
80 Benzo(a) pyrene	250	262	104.60	70-130
83 Perylene	250	257	102.64	70-130
86 Indeno(1,2,3-cd)py	250	251	100.52	70-130
89 Dibenz(a,h) anthrac	250	268	107.36	70-130
92 Benzo(g,h,i) peryle	250	260	104.07	70-130

SURROGATE COMPOUND	CONC ADDED ng/sample	CONC RECOVERED ng/sample	% RECOVERED	LIMITS
\$ 2 Naphthalene-d8 (SS)	250	248	99.21	30-120

70-130
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Data File: /var/chem/gcms/mp.i/P080111I.b/ph01icv.d

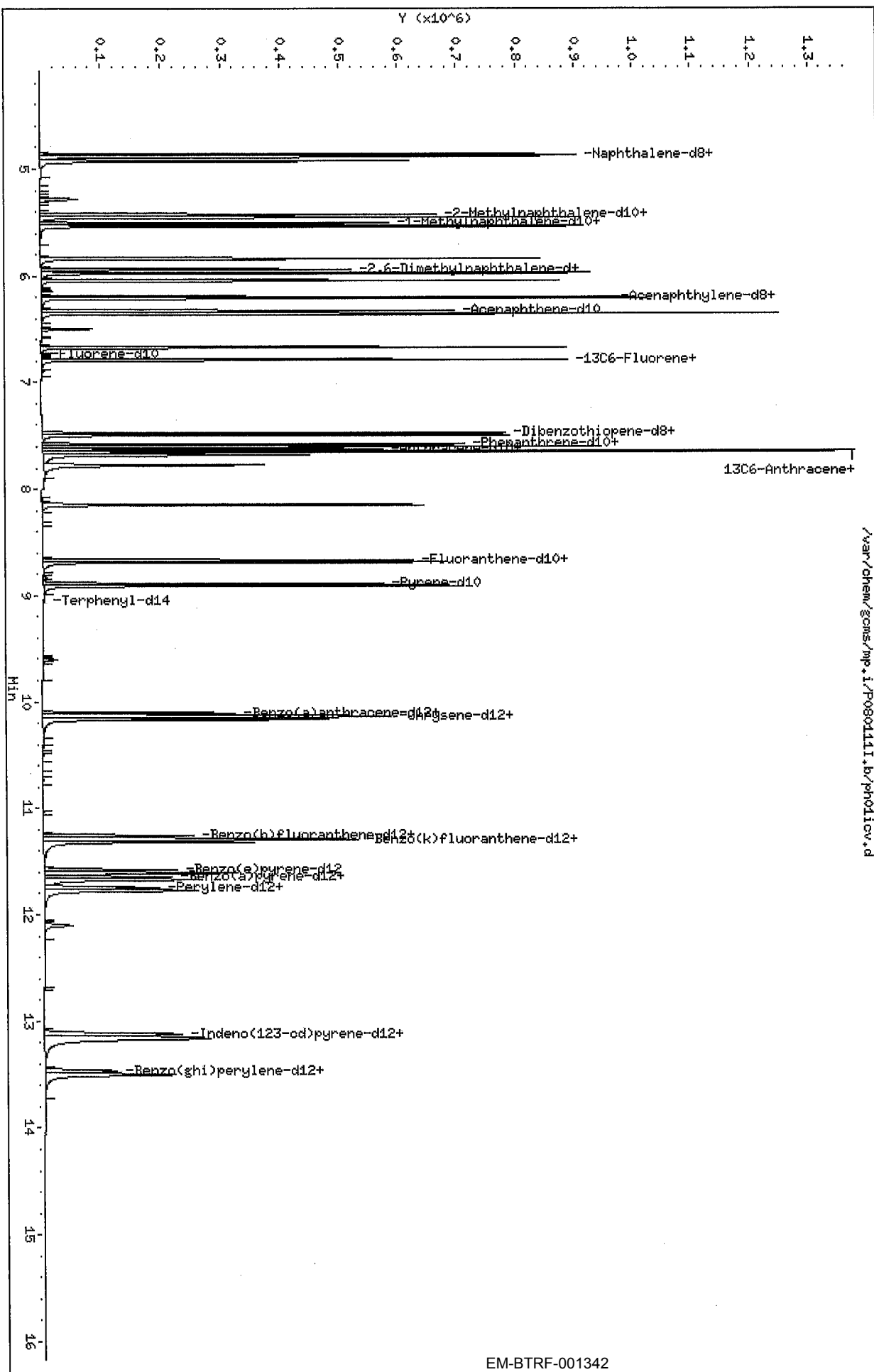
Report Date: 01-Aug-2011 18:59

SURROGATE COMPOUND	CONC ADDED ng/sample	CONC RECOVERED ng/sample	% RECOVERED	LIMITS
\$ 222 13C6-Naphthalene	250	24.2	9.67*	50-150
\$ 11 2-Methylnaphthalen	250	255	102.04	30-120
\$ 14 1-Methylnaphthalen	250	251	100.34	30-120
\$ 18 2,6-Dimethylnaph-d	250	249	99.45	30-120
\$ 21 Acenaphthylene-d8 (	250	246	98.26	30-120
\$ 26 Fluorene-d10	250	0.290	0.12*	30-120
\$ 28 13C6-Fluorene	250	0.187	0.07*	30-120
\$ 35 Dibenzothiopene-d8	250	251	100.36	30-120
\$ 42 Phenanthrene-d10 (S	250	252	100.91	30-120
\$ 45 Anthracene-d10 (SS)	250	244	97.50	30-120
\$ 47 13C6-Anthracene	250	245	97.98	30-120
\$ 54 Fluoranthene-d10 (S	250	250	99.95	0-120
\$ 58 Terphenyl-d14	250	0.190	0.08*	30-120
\$ 61 Benzo (a) anthracene	250	239	95.55	30-120
\$ 64 Chrysene-d12 (SS)	250	255	101.85	30-120
\$ 71 Benzo (b) fluoranthe	250	254	101.71	30-120
\$ 74 Benzo (k) fluoranthe	250	247	98.94	30-120
\$ 79 Benzo (a) pyrene-d12	250	248	99.16	30-120
\$ 82 Perylene-d12 (SS)	250	253	101.01	30-120
\$ 85 Indeno (123-cd) pyre	250	243	97.25	30-120
\$ 88 Dibenz (ah) anthrace	250	242	96.83	30-120
\$ 91 Benzo (ghi) perylene	250	246	98.41	30-120

70-130
24/11

Data File: /var/chem/gcms/mp.i/P0801111.b/ph01icw.d
 Date: 01-AUG-2011 16:08
 Client ID:
 Sample Info: PH01ICV,3,,PAH0309
 Purge Volume: 1.0
 Column phase: Variant SMS

Instrument: mp.i
 Operator: 11214
 Column diameter: 0.25



A. Review Items	N/A	Yes	No	Why is data reportable?	2nd ✓
1. Were all injections in sequence within 12 hr of CCAL?		✓			✓
2. Was date/time of analysis verified between header and logbook?		✓			✓
3. Are peak integrations appropriate?		✓			✓
4. Is the %D or drift <30% for all analytes		✓			✓
5. Are the recovery standards within 50-200% of the ICAL CS4 level?		✓			✓
6. Are the MID descriptors properly set?		✓			✓
7. Are correct RFs listed in CCAL summary?		✓			✓
8. Was the correct ICAL used for quantitation? (Verify 1 RF.)		✓			✓
9. Elution order checked on isomeric pairs/coeluters?					
• 2-methylnaphthalene before 1-methylnaphthalene (& d10 isomers)		✓			✓
• acenaphthylene before acenaphthene (& d10 isomers)		✓			✓
• dibenzothiophene before anthracene		✓			✓
• phenanthrene before anthracene (& d10 isomers)		✓			✓
• fluoranthene before pyrene (& d10 isomers)		✓			✓
• benzo(a)anthracene before chrysene (& d12 isomers)		✓			✓
• benzo(b)fluoranthene before benzo(k)fluoranthene (& d12 isomers)		✓			✓
• benzo(e)pyrene before benzo(a)pyrene		✓			✓
• benzo(a)pyrene before perylene (& d12 isomers)		✓			✓
• Indeno(1,2,3-cd)pyrene before benzo(g,h,i)perylene (& d12 isomers)		✓			✓
10. Were the first/last RTs for each alkyl PAH homologue group properly identified and indicated on the chromatogram?	✓				NA
11. If criteria were not met, was a NCM generated and approved by supervisor?	✓	NA			NA
12. Does the CCAL folder contain complete data in the following order? CCAL data review checklist, runlog, Target Continuing Calibration Report, followed by the quan report and chromatograms for the CCAL and window standard.		✓			✓

[illegible]

TestAmerica Knoxville
Instrument MP Run/Maintenance Log

99

Date/Time Verified ☒Preventive Maintenance Performed: ☐ septa ☐ liner ☐ seal ☐ clip column ☐ SPME fiber ☐ other: see below / maint. log

Target Batch	PH03H			Date	5/3/11
ICAL Batch	PH03HIE			Analyst	JMC
Method	<input checked="" type="checkbox"/> KNOX-ID-0016	<input type="checkbox"/> KNOX-ID-0018	<input type="checkbox"/>	IS ID & vol.	ml

Lot	Filename	Time	Dil.	Matrix	Batch	Comments
IS	PH03F001	12:03	1	1	-	
CV	PH03CCV	12:27	1	1	-	PH03b2
MB	MK2D01AA	12:52	1	1	1201079	
HIG 190403	MK09P2AC	13:54	5	Comb Air	1	2nd to 100ul
1	MK04Q2AC	14:19	5	1	1	2nd to 100ul
1	MK09R2AC	14:43	5	1	1	2nd to 100ul
HIG 200446	MK2H22AC	15:08	2	1	1	5nd to 100ul
-	PH03HEX01	15:33	1	-	-	
MB	MK51E1AA	15:58	1	Combined Air	1207014	
LS	MK51E1AC	16:23	1	1	1	
LS	MK51E1AD	16:48	1	1	1	
HIG 250966	MK5E7VAC	17:13	1	1	1	
HIG 250417	MK5KLIAC	17:38	1	1	1	
1	MK5KQ1AC	18:02	1	1	1	
1	MK5KR1AC	18:27	1	1	1	
1	MK5KT1AC	18:52	1	1	1	
1	MK5EW1AC	19:17	1	1	1	
-	PH03HEX02	19:41	1	-	-	
HIG 190403	MK09P2AC2	20:06	7	Comb Air	1201079	13nd to 91ul
HIG 200446	MK2H22AC2	20:31	5	1	1	2nd to 100ul
HIG 200406	MK5C31AC	20:56	25	1	1207014	2nd to 100ul
1	MK5C61AC	21:20	25	1	1	Full scan 2nd to 100ul
1	MK5C51AC	21:45	50	1	1	2nd to 100ul
MB	MK51EX	21:41 12:24	-	1	1207014	Full scan
MB	MK2D0X	12:49	-	1	1201079	Full scan

Comments: Three hexene rinses were analyzed after sample MK5C51AC: PH03HEX03 22:09
 PH03HEX04 22:34
 PH03HEX05 22:59

Data File: /var/chem/gcms/mp.i/P080311.b/ph03ccv.d

Report Date: 04-Aug-2011 15:29

TestAmerica Knoxville

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: mp.i Injection Date: 03-AUG-2011 12:27
 Lab File ID: ph03ccv.d Init. Cal. Date(s): 01-AUG-2011 01-AUG-2011
 Analysis Type: AIR Init. Cal. Times: 12:50 15:19
 Lab Sample ID: PH03CCV Quant Type: ISTD
 Method: /chem/gcms/mp.i/P080311.b/SIMPAH3.m

COMPOUND	RRF / AMOUNT	RFO.500	MIN	MAX	CURVE TYPE
			RRF	%D / %DRIFT	
\$ 2 Naphthalene-d8 (SS)	2.31710	2.27686	0.000	1.73653	Averaged
3 Naphthalene	0.83828	0.86720	0.000	-3.45004	Averaged
\$ 222 13C6-Naphthalene	0.92383	0.92603	0.000	-0.23824	Averaged
\$ 11 2-Methylnaphthalene-d10 (SS)	1.25944	1.24101	0.000	1.46338	Averaged
12 2-Methylnaphthalene	1.00226	1.03159	0.000	-2.92688	Averaged
\$ 14 1-Methylnaphthalene-d10 (SS)	1.25302	1.24700	0.000	0.48017	Averaged
15 1-Methylnaphthalene	0.96943	0.99499	0.000	-2.63659	Averaged
16 Biphenyl	1.19363	1.25006	0.000	-4.72752	Averaged
\$ 18 2,6-Dimethylnaph-d12 (SS)	1.07919	1.06979	0.000	0.87078	Averaged
19 2,6 Dimethylnaphthalene	0.99387	1.02240	0.000	-2.87110	Averaged
\$ 21 Acenaphthylene-d8 (SS)	1.81729	1.69150	0.000	6.92184	Averaged
22 Acenaphthylene	0.98978	1.04514	0.000	-5.59343	Averaged
24 Acenaphthene	0.58295	0.63724	0.000	-9.31382	Averaged
25 2,3,5 Trimethylnaphthalene	0.84519	0.86901	0.000	-2.81818	Averaged
\$ 26 Fluorene-d10	0.59796	0.62071	0.000	-3.80514	Averaged
27 Fluorene	0.76847	0.81554	0.000	-6.12525	Averaged
\$ 28 13C6-Fluorene	0.66314	0.70192	0.000	-5.84767	Averaged
\$ 35 Dibenzothiophene-d8 (SS)	1.42372	1.43824	0.000	-1.02002	Averaged
36 Dibenzothiophene	0.95081	0.97602	0.000	-2.65157	Averaged
\$ 42 Phenanthrene-d10 (SS)	1.28693	1.29920	0.000	-0.95301	Averaged
43 Phenanthrene	1.08990	1.11793	0.000	-2.57150	Averaged
\$ 45 Anthracene-d10 (SS)	1.11095	1.06402	0.000	4.22400	Averaged
46 Anthracene	1.24875	1.32075	0.000	-5.76582	Averaged
\$ 47 13C6-Anthracene	1.17164	1.17282	0.000	-0.10134	Averaged
52 1-Methylphenanthrene	0.67097	0.68804	0.000	-2.54432	Averaged
\$ 54 Fluoranthene-d10 (SS)	1.22681	1.23623	0.000	-0.76835	Averaged
55 Fluoranthene	1.10628	1.12184	0.000	-1.40637	Averaged
57 Pyrene	1.16907	1.19511	0.000	-2.22741	Averaged
\$ 58 Terphenyl-d14	0.49884	0.53751	0.000	-7.75103	Averaged
\$ 61 Benzo(a)anthracene-d12 (SS)	0.63211	0.57485	0.000	9.05831	Averaged
62 Benzo(a)anthracene	1.48825	1.63359	0.000	-9.76587	Averaged
\$ 64 Chrysene-d12 (SS)	1.00121	1.07840	0.000	-7.70951	Averaged
65 Chrysene	1.09976	1.10401	0.000	-0.38595	Averaged
\$ 71 Benzo(b)fluoranthene-d12 (SS)	1.06491	1.01827	0.000	4.38010	Averaged
72 Benzo(b)fluoranthene	1.38804	1.43915	0.000	-3.68253	Averaged
\$ 74 Benzo(k)fluoranthene-d12 (SS)	1.48978	1.50325	0.000	-0.90417	Averaged

Data File: /var/chem/gcms/mp.i/P080311.b/ph03ccv.d
 Report Date: 04-Aug-2011 15:29

TestAmerica Knoxville

SEMIVOLATILE QUANTITATION REPORT

Data file : /var/chem/gcms/mp.i/P080311.b/ph03ccv.d
 Lab Smp Id: PH03CCV Client Smp ID: PAH0362
 Inj Date : 03-AUG-2011 12:27
 Operator : 11211 Inst ID: mp.i
 Smp Info : PH03CCV,,2,4,,PAH0362
 Misc Info : P080311,SIMPAH3
 Comment :
 Method : /chem/gcms/mp.i/P080311.b/SIMPAH3.m
 Meth Date : 04-Aug-2011 15:29 cochranj Quant Type: ISTD
 Cal Date : 01-AUG-2011 15:19 Cal File: ph01ic07.d
 Als bottle: 1 Continuing Calibration Sample
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: pah.sub
 Target Version: 3.50
 Processing Host: qmidhp01

Concentration Formula: $\text{Amt} * \text{DF} * \text{Sf} * \text{Vt} / \text{Vo} * \text{CpndVariable}$

Name	Value	Description
DF	1.00000	Dilution Factor
Sf	1.00000	Split factor
Vt	500.00000	Volume of final extract (uL)
Vo	1.00000	Volume of sample extracted (sample)

Cpnd Variable

Local Compound Variable

Compounds	QUANT SIG	MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
							CAL-AMT (ug/ml)	ON-COL (ug/ml)
* 1 Naphthalene-d8	=====	136	4.869	4.869	(1.000)	692165	0.50000	0.500
\$ 2 Naphthalene-d8(SS)	=====	136	4.869	4.869	(0.769)	692165	0.50000	0.491
3 Naphthalene	=====	128	4.887	4.887	(1.004)	600246	0.50000	0.517
\$ 222 13C6-Naphthalene	=====	134	4.887	4.887	(1.004)	640964	0.50000	0.501
* 10 2-Methylnaphthalene-d10	=====	152	5.427	5.427	(1.000)	377267	0.50000	0.500
\$ 11 2-Methylnaphthalene-d10(SS)	=====	152	5.427	5.427	(0.858)	377267	0.50000	0.493
12 2-Methylnaphthalene	=====	142	5.454	5.454	(1.005)	389185	0.50000	0.515
* 13 1-Methylnaphthalene-d10	=====	152	5.510	5.510	(1.000)	379088	0.50000	0.500
\$ 14 1-Methylnaphthalene-d10(SS)	=====	152	5.510	5.510	(0.871)	379088	0.50000	0.498
15 1-Methylnaphthalene	=====	142	5.536	5.536	(1.005)	377189	0.50000	0.513
16 Biphenyl	=====	154	5.840	5.840	(1.076)	471605	0.50000	0.524
* 17 2,6-Dimethylnaphthalene-d12	=====	168	5.937	5.937	(1.000)	325216	0.50000	0.500
\$ 18 2,6-Dimethylnaph-d12(SS)	=====	168	5.937	5.937	(0.938)	325216	0.50000	0.496
19 2,6 Dimethylnaphthalene	=====	156	5.974	5.974	(1.006)	332502	0.50000	0.514

Data File: /var/chem/gcms/mp.i/P080311.b/ph03ccv.d

Report Date: 04-Aug-2011 15:29

Compounds	QUANT SIG			AMOUNTS			
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)
=====	=====	==	=====	=====	=====	=====	=====
* 20 Acenaphthylene-d8	160	6.196	6.196	(1.000)	514217	0.50000	0.500
\$ 21 Acenaphthylene-d8 (SS)	160	6.196	6.196	(0.979)	514217	0.50000	0.465
22 Acenaphthylene	152	6.208	6.208	(1.002)	537430	0.50000	0.528
* 23 Acenaphthene-d10	164	6.327	6.327	(1.000)	304000 ✓	0.50000	0.500
24 Acenaphthene	154	6.353	6.353	(1.025)	327680	0.50000	0.547
25 2,3,5 Trimethylnaphthalene	170	6.674	6.674	(1.124)	282615	0.50000	0.514
\$ 26 Fluorene-d10	176	6.763	6.763	(0.892)	297686	0.50000	0.519
27 Fluorene	166	6.788	6.788	(0.895)	391127	0.50000	0.531
\$ 28 13C6-Fluorene	171	6.786	6.786	(0.895)	336635	0.50000	0.529
* 34 Dibenzothiophene-d8	192	7.478	7.478	(1.000)	530919	0.50000	0.500
\$ 35 Dibenzothiophene-d8 (SS)	192	7.478	7.478	(0.841)	530919	0.50000	0.505
36 Dibenzothiophene	184	7.495	7.495	(1.002)	518187	0.50000	0.513
* 41 Phenanthrene-d10	188	7.582	7.582	(1.000)	479591	0.50000	0.500
\$ 42 Phenanthrene-d10 (SS)	188	7.582	7.582	(0.853)	479591	0.50000	0.505
43 Phenanthrene	178	7.603	7.603	(1.003)	536147	0.50000	0.513
* 44 Anthracene-d10	188	7.632	7.632	(1.000)	392777	0.50000	0.500
\$ 45 Anthracene-d10 (SS)	188	7.632	7.632	(0.858)	392777	0.50000	0.479
46 Anthracene	178	7.648	7.648	(1.002)	518762	0.50000	0.529
\$ 47 13C6-Anthracene	184	7.646	7.646	(0.860)	432941	0.50000	0.501
52 1-Methylphenanthrene	192	8.150	8.150	(1.075)	329980	0.50000	0.513
* 53 Fluoranthene-d10	212	8.672	8.672	(1.000)	456348	0.50000	0.500
\$ 54 Fluoranthene-d10 (SS)	212	8.672	8.672	(0.975)	456348	0.50000	0.504
55 Fluoranthene	202	8.687	8.687	(1.002)	511950	0.50000	0.507
* 56 Pyrene-d10	212	8.891	8.891	(1.000)	369144 ✓	0.50000	0.500
57 Pyrene	202	8.908	8.908	(1.027)	545386	0.50000	0.511
\$ 58 Terphenyl-d14	244	9.050	9.050	(1.044)	245290	0.50000	0.539
* 60 Benzo(a)anthracene-d12	240	10.108	10.108	(1.000)	212204	0.50000	0.500
\$ 61 Benzo(a)anthracene-d12 (SS)	240	10.108	10.108	(1.137)	212204	0.50000	0.465
62 Benzo(a)anthracene	228	10.129	10.129	(1.002)	346655	0.50000	0.549
* 63 Chrysene-d12	240	10.142	10.142	(1.000)	398085	0.50000	0.500
\$ 64 Chrysene-d12 (SS)	240	10.142	10.142	(1.141)	398085	0.50000	0.539
65 Chrysene	228	10.167	10.167	(1.002)	439489	0.50000	0.502
* 70 Benzo(b)fluoranthene-d12	264	11.259	11.259	(1.000)	241851	0.50000	0.500
\$ 71 Benzo(b)fluoranthene-d12 (SS)	264	11.259	11.259	(0.972)	241851	0.50000	0.478
72 Benzo(b)fluoranthene	252	11.289	11.289	(1.003)	348060	0.50000	0.518
* 73 Benzo(k)fluoranthene-d12	264	11.295	11.295	(1.000)	357040	0.50000	0.500
\$ 74 Benzo(k)fluoranthene-d12 (SS)	264	11.295	11.295	(0.975)	357040	0.50000	0.505
75 Benzo(k)fluoranthene	252	11.319	11.319	(1.002)	399386	0.50000	0.506
* 76 Benzo(e)pyrene-d12	264	11.581	11.581	(1.000)	237512 ✓	0.50000	0.500
77 Benzo(e)pyrene	252	11.611	11.611	(0.997)	344655	0.50000	0.563
* 78 Benzo(a)pyrene-d12	264	11.647	11.647	(1.000)	238944	0.50000	0.500
\$ 79 Benzo(a)pyrene-d12 (SS)	264	11.647	11.647	(1.006)	243570	0.50000	0.465
80 Benzo(a)pyrene	252	11.671	11.671	(1.002)	278522	0.50000	0.529
* 81 Perylene-d12	264	11.743	11.743	(1.000)	252806	0.50000	0.500
\$ 82 Perylene-d12 (SS)	264	11.743	11.743	(1.014)	252806	0.50000	0.498
83 Perylene	252	11.773	11.773	(1.003)	317859	0.50000	0.504
* 84 Indeno(123-cd)pyrene-d12	288	13.118	13.118	(1.000)	279187	0.50000	0.500

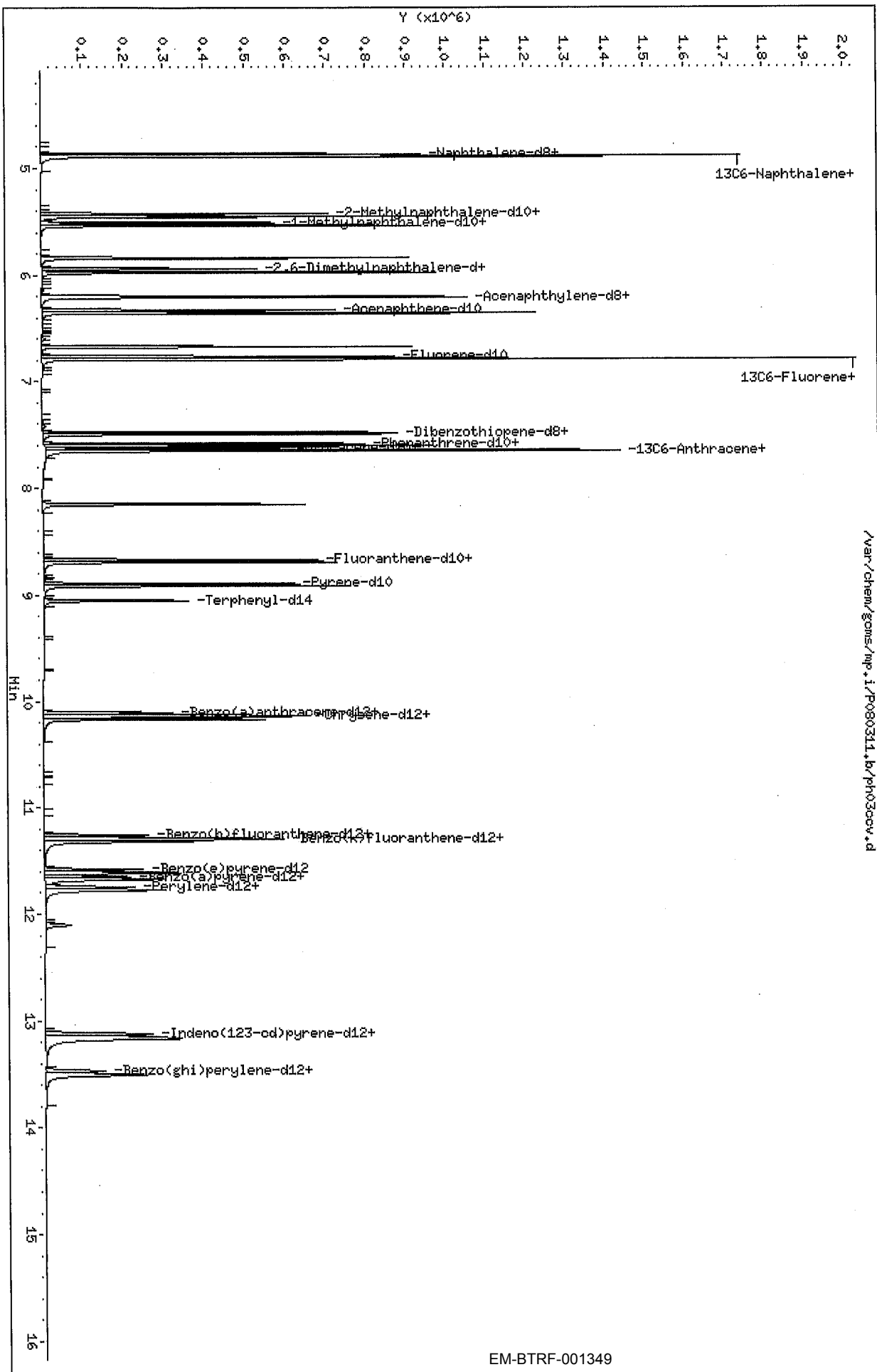
Data File: /var/chem/gcms/mp.i/P080311.b/ph03ccv.d

Report Date: 04-Aug-2011 15:29

Compounds	QUANT SIG					AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT	ON-COL
						(ug/ml)	(ug/ml)
=====	=====	==	=====	=====	=====	=====	=====
\$ 85 Indeno (123-cd) pyrene-d12 (SS)	288	13.118	13.118	(1.133)	279187	0.50000	0.487
86 Indeno (1,2,3-cd) pyrene	276	13.152	13.152	(1.003)	339113	0.50000	0.515
* 87 Dibenz (ah) anthracene-d14	292	13.123	13.123	(1.000)	214736	0.50000	0.500
\$ 88 Dibenz (ah) anthracene-d14 (SS)	292	13.123	13.123	(1.133)	214736	0.50000	0.496
89 Dibenz (a,h) anthracene	278	13.169	13.169	(1.004)	270639	0.50000	0.526
* 90 Benzo (ghi) perylene-d12	288	13.469	13.469	(1.000)	217118	0.50000	0.500
\$ 91 Benzo (ghi) perylene-d12 (SS)	288	13.469	13.469	(1.163)	215687	0.50000	0.503
92 Benzo (g,h,i) perylene	276	13.502	13.502	(1.002)	299165	0.50000	0.507

Data File: /var/chem/gcms/mp.i/P080311.b/p0803cov.d
 Date: 03-AUG-2011 12:27
 Client ID: P080362
 Sample Info: P0803COV,,2,4,,P080362
 Purge Volume: 1.0
 Column Phase: Variant: SMS

Instrument: mp.i
 Operator: 11211
 Column diameter: 0.25



Raw QC Data

METHOD BLANK REPORT

GC/MS Semivolatiles

Client Lot #...: H1G190403
 MB Lot-Sample #: H1G200000-079 Work Order #...: MK2D01AA Matrix.....: AIR
 Prep Date.....: 07/20/11 Analysis Date...: 07/29/2011
 Prep Batch #...: 1201079
 Dilution Factor: 2 Method.....: KNOX ID-0016

REPORTING				
PARAMETER	RESULT	LIMIT	UNITS	MDL
Acenaphthene	ND	40	ng/sample	9.8
Acenaphthylene	ND	40	ng/sample	4.8
Anthracene	ND	20	ng/sample	7.6
Benzo (a) anthracene	ND	20	ng/sample	7.6
Benzo (b) fluoranthene	ND	200	ng/sample	60
Benzo (k) fluoranthene	ND	200	ng/sample	86
Benzo (ghi) perylene	ND	20	ng/sample	10
Benzo (a) pyrene	ND	20	ng/sample	5.8
Benzo (e) pyrene	ND	20	ng/sample	11
Chrysene	ND	20	ng/sample	5.0
Dibenz (a, h) anthracene	ND	20	ng/sample	7.8
Fluoranthene	ND	20	ng/sample	13
Fluorene	ND	20	ng/sample	8.2
Indeno (1, 2, 3-cd) pyrene	ND	20	ng/sample	5.2
2-Methylnaphthalene	ND	100	ng/sample	42
Naphthalene	ND	800	ng/sample	500
Perylene	ND	20	ng/sample	6.2
Phenanthrene	ND	60	ng/sample	48
Pyrene	ND	120	ng/sample	72

Internal Standard	PERCENT	RECOVERY
	RECOVERY	LIMITS
Anthracene-d10	93	(30 - 120)
Naphthalene-d8	89	(30 - 120)
2-Methylnaphthalene-d10	94	(30 - 120)
1-Methylnaphthalene-d10	92	(30 - 120)
Acenaphthylene-d8	104	(30 - 120)
Phenanthrene-d10	82	(30 - 120)
2, 6-Dimethylnaphthalene-d12	95	(30 - 120)
Fluoranthene-d10	100	(30 - 120)
Benzo (a) anthracene-d12	144 *	(30 - 120)
Chrysene-d12	90	(30 - 120)
Benzo (b) fluoranthene-d12	116	(30 - 120)
Benzo (k) fluoranthene-d12	90	(30 - 120)
Benzo (a) pyrene-d12	110	(30 - 120)
Perylene-d12	102	(30 - 120)
Indeno (1, 2, 3-cd) pyrene-d12	104	(30 - 120)
Dibenz (ah) anthracene-d14	101	(30 - 120)
Benzo (ghi) perylene-d12	96	(30 - 120)

NOTE(S) :

1 13C6-Anthracene = 80 %

* Surrogate recovery is outside stated control limits.

Data File: /var/chem/gcms/mp.i/P072911.b/mk2d01aa.d
Report Date: 04-Aug-2011 16:26

TestAmerica Knoxville

SEMIVOLATILE QUANTITATION REPORT

Data file : /var/chem/gcms/mp.i/P072911.b/mk2d01aa.d
Lab Smp Id: MK2D01AA Client Smp ID: INTRA-LAB BLANK
Inj Date : 29-JUL-2011 11:48
Operator *60487* Inst ID: mp.i
Smp Info : , , 3 , , BLANK
Misc Info : P072911, SIMPAH3
Comment :
Method : /var/chem/gcms/mp.i/P072911.b/SIMPAH3.m
Meth Date : 29-Jul-2011 11:36 chemist Quant Type: ISTD
Cal Date : 26-JUL-2011 20:15 Cal File: pg26ic07.d
Als bottle: 3 QC Sample: METHOD BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 3.50
Processing Host: qmidhp01

Concentration Formula: $\text{Amt} * \text{DF} * \text{Sf} * \text{Vt} / \text{Vo} * \text{CpndVariable}$

Name	Value	Description
DF	1.00000	Dilution Factor
Sf	1.00000	Split factor
Vt	500.00000	Volume of final extract (uL)
Vo	1.00000	Volume of sample extracted (sample)

Cpnd Variable

Local Compound Variable

Compounds	QUANT	SIG	MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
								ON-COLUMN (ug/ml)	FINAL (ng/sample)
* 1 Naphthalene-d8			136	4.865	4.865	(1.000)	631638	0.50000	0.500
\$ 2 Naphthalene-d8 (SS)			136	4.865	4.865	(0.769)	631638	0.44274	221
3 Naphthalene			128	4.880	4.880	(1.003)	100776	0.09401	47.0
\$ 222 13C6-Naphthalene			134	4.865	4.880	(1.000)	57448	0.04952	24.8 (R)
* 10 2-Methylnaphthalene-d10			152	5.424	5.424	(1.000)	360626	0.50000	0.500
\$ 11 2-Methylnaphthalene-d10 (SS)			152	5.424	5.424	(0.858)	360626	0.46847	234
12 2-Methylnaphthalene			142	5.450	5.450	(1.005)	10921	0.01503	7.52
* 13 1-Methylnaphthalene-d10			152	5.503	5.503	(1.000)	351839	0.50000	0.500
\$ 14 1-Methylnaphthalene-d10 (SS)			152	5.503	5.503	(0.870)	351839	0.45981	230
15 1-Methylnaphthalene			142	5.533	5.533	(1.005)	5915	0.00866	4.33
16 Biphenyl			154	5.835	5.835	(1.076)	111592	0.12933	64.7
* 17 2,6-Dimethylnaphthalene-d12			168	5.935	5.933	(1.000)	311694	0.50000	0.500
\$ 18 2,6-Dimethylnaph-d12 (SS)			168	5.935	5.933	(0.938)	311694	0.47466	237
19 2,6 Dimethylnaphthalene			156	5.976	5.969	(1.007)	2374	0.00382	1.91

Data File: /var/chem/gcms/mp.i/P072911.b/mk2d01aa.d

Report Date: 04-Aug-2011 16:26

Compounds	QUANT SIG	MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN	FINAL
							(ug/ml)	(ng/sample)
=====	=====	=====	=====	=====	=====	=====	=====	=====
* 20 Acenaphthylene-d8		160	6.193	6.194	(1.000)	559723	0.50000	0.500
\$ 21 Acenaphthylene-d8 (SS)		160	6.193	6.194	(0.979)	559723	0.52150	251
22 Acenaphthylene		152	6.202	6.202	(1.001)	535	0.000474	0.237
* 23 Acenaphthene-d10		164	6.324	6.325	(1.000)	303344	0.50000	0.500
24 Acenaphthene		154	6.350	6.350	(1.025)	2479	0.00368	1.84
25 2,3,5 Trimethylnaphthalene		170	6.668	6.669	(1.124)	585	0.00113	0.564
\$ 26 Fluorene-d10		176	6.763	6.758	(0.892)	217	0.000382	0.191 (R)
27 Fluorene		166	6.785	6.783	(0.895)	3565	0.00485	2.42
\$ 28 13C6-Fluorene		171	6.785	6.781	(0.895)	149	0.000235	0.117 (R)
* 34 Dibenzothiophene-d8		192	7.474	7.474	(1.000)	517814	0.50000	0.500
\$ 35 Dibenzothiophene-d8 (SS)		192	7.474	7.474	(0.841)	517814	0.39860	199
36 Dibenzothiophene		184	7.490	7.489	(1.002)	1575	0.00159	0.797
* 41 Phenanthrene-d10		188	7.578	7.578	(1.000)	479727	0.50000	0.500
\$ 42 Phenanthrene-d10 (SS)		188	7.578	7.578	(0.853)	479727	0.40931	205
43 Phenanthrene		178	7.598	7.597	(1.003)	23727	0.02253	11.3
* 44 Anthracene-d10		188	7.625	7.626	(1.000)	459247	0.50000	0.500
\$ 45 Anthracene-d10 (SS)		188	7.625	7.626	(0.858)	459247	0.46402	232
46 Anthracene		178	7.640	7.642	(1.002)	1131	0.000957	0.479
\$ 47 13C6-Anthracene		184	7.642	7.642	(0.860)	429515	0.40038	200
52 1-Methylphenanthrene		192	8.148	8.143	(1.075)	920	0.00145	0.727
* 53 Fluoranthene-d10		212	8.665	8.665	(1.000)	543863	0.50000	0.500
\$ 54 Fluoranthene-d10 (SS)		212	8.665	8.665	(0.975)	543863	0.49821	249
55 Fluoranthene		202	8.682	8.683	(1.002)	7426	0.00607	3.03
* 56 Pyrene-d10		212	8.887	8.885	(1.000)	445002	0.50000	0.500
57 Pyrene		202	8.904	8.904	(1.028)	4145	0.00320	1.60
\$ 58 Terphenyl-d14		244	9.049	9.043	(1.044)	238	0.000427	0.212 (R) ! 250
* 60 Benzo(a)anthracene-d12		240	10.099	10.100	(1.000)	390378	0.50000	0.500
\$ 61 Benzo(a)anthracene-d12 (SS)		240	10.099	10.100	(1.136)	390378	0.71922	360 (R)
62 Benzo(a)anthracene		228	10.125	10.121	(1.002)	3175	0.00254	1.27
* 63 Chrysene-d12		240	10.133	10.133	(1.000)	427679	0.50000	0.500
\$ 64 Chrysene-d12 (SS)		240	10.133	10.133	(1.140)	427679	0.44912	225
65 Chrysene		228	10.162	10.163	(1.003)	2481	0.00266	1.33
* 70 Benzo(b)fluoranthene-d12		264	11.253	11.253	(1.000)	381466	0.50000	0.500
\$ 71 Benzo(b)fluoranthene-d12 (SS)		264	11.253	11.253	(0.973)	381466	0.57929	290
72 Benzo(b)fluoranthene		252	11.283	11.277	(1.003)	3706	0.00331	1.65
* 73 Benzo(k)fluoranthene-d12		264	11.289	11.289	(1.000)	420652	0.50000	0.500
\$ 74 Benzo(k)fluoranthene-d12 (SS)		264	11.289	11.289	(0.976)	420656	0.44759	224
75 Benzo(k)fluoranthene		252	11.312	11.307	(1.002)	4378	0.00475	2.38
* 76 Benzo(e)pyrene-d12		264	11.569	11.570	(1.000)	312260	0.50000	0.500
77 Benzo(e)pyrene		252	11.599	11.600	(0.997)	1510	0.00150	0.748
* 78 Benzo(a)pyrene-d12		264	11.635	11.635	(1.000)	371316	0.50000	0.500
\$ 79 Benzo(a)pyrene-d12 (SS)		264	11.635	11.635	(1.006)	371316	0.55149	276
80 Benzo(a)pyrene		252	11.665	11.665	(1.003)	2392	0.00284	1.42
* 81 Perylene-d12		264	11.737	11.737	(1.000)	343498	0.50000	0.500
\$ 82 Perylene-d12 (SS)		264	11.737	11.737	(1.014)	343498	0.51152	256
83 Perylene		252	11.767	11.761	(1.003)	1407	0.00163	0.813
* 84 Indeno(123-cd)pyrene-d12		288	13.106	13.106	(1.000)	401017	0.50000	0.500

Data File: /var/chem/gcms/mp.i/P072911.b/mk2d01aa.d

Report Date: 04-Aug-2011 16:26

7/20
8-8-11

Compounds	QUANT SIG						CONCENTRATIONS	
	MASS	RT	EXP RT	REL RT	RT	RESPONSE	ON-COLUMN (ug/ml)	FINAL (ng/sample)
=====	====	==	=====	=====		=====	=====	=====
\$ 85 Indeno(123-cd)pyrene-d12(SS)	288	13.106	13.106	(1.133)		401017	0.52121	261
86 Indeno(1,2,3-cd)pyrene	276	13.144	13.140	(1.003)		973	0.00100	0.501
* 87 Dibenz(ah)anthracene-d14	292	13.110	13.110	(1.000)		294881	0.50000	0.500
\$ 88 Dibenz(ah)anthracene-d14(SS)	292	13.110	13.110	(1.133)		294881	0.50317	252
89 Dibenz(a,h)anthracene	278	13.156	13.157	(1.004)		654	0.000903	0.452
* 90 Benzo(ghi)perylene-d12	288	13.460	13.460	(1.000)		277371	0.50000	0.500
\$ 91 Benzo(ghi)perylene-d12(SS)	288	13.460	13.460	(1.163)		277371	0.47970	240
92 Benzo(g,h,i)perylene	276	13.494	13.494	(1.002)		900	0.00117	0.586

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

Data File: /var/chem/gcms/mp.i/P072911.b/mk2d01aa.d

Report Date: 05-Aug-2011 13:50

TestAmerica Knoxville

SEMIVOLATILE QUANTITATION REPORT

Data file : /var/chem/gcms/mp.i/P072911.b/mk2d01aa.d
 Lab Smp Id: MK2D01AA Client Smp ID: INTRA-LAB BLANK
 Inj Date : 29-JUL-2011 11:48
 Operator : 11211 Inst ID: mp.i
 Smp Info : , , 3 , , BLANK
 Misc Info : P072911, SIMPAH3
 Comment :
 Method : /var/chem/gcms/mp.i/P072911.b/SIMPAH3.m
 Meth Date : 04-Aug-2011 19:00 cochranj Quant Type: ISTD
 Cal Date : 26-JUL-2011 20:15 Cal File: pg26ic07.d
 Als bottle: 3 QC Sample: METHOD BLANK
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: pah.sub
 Target Version: 3.50
 Processing Host: qmidhp01

Concentration Formula: Amt * DF * Sf*Vt/Vo * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Sf	✓ 2.00000	Split factor
Vt	500.00000	Volume of final extract (uL)
Vo	1.00000	Volume of sample extracted (sample)

Cpnd Variable

Local Compound Variable

all are < MDL
7/28/11

Compounds	QUANT SIG	MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN (ug/ml)	FINAL (ng/sample)
=====	=====	=====	=====	=====	=====	=====	=====	=====
* 1 Naphthalene-d8		136	4.865	4.865	(1.000)	631638	0.50000	0.500
\$ 2 Naphthalene-d8 (SS)		136	4.865	4.865	(0.769)	631638	0.44274	443
3 Naphthalene		128	4.880	4.880	(1.003)	100776	0.09401 ✓	94.0 ✓
* 10 2-Methylnaphthalene-d10		152	5.424	5.424	(1.000)	360626	0.50000	0.500
\$ 11 2-Methylnaphthalene-d10 (SS)		152	5.424	5.424	(0.858)	360626	0.46847	468
12 2-Methylnaphthalene		142	5.450	5.450	(1.005)	10921	0.01503	15.0
* 13 1-Methylnaphthalene-d10		152	5.503	5.503	(1.000)	351839	0.50000	0.500
\$ 14 1-Methylnaphthalene-d10 (SS)		152	5.503	5.503	(0.870)	351839	0.45981	460
15 1-Methylnaphthalene		142	5.533	5.533	(1.005)	5915	0.00866	8.66
16 Biphenyl		154	5.835	5.835	(1.076)	111592	0.12933	129
* 17 2,6-Dimethylnaphthalene-d12		168	5.935	5.935	(1.000)	311694	0.50000	0.500
\$ 18 2,6-Dimethylnaph-d12 (SS)		168	5.935	5.935	(0.938)	311694	0.47466	475
19 2,6 Dimethylnaphthalene		156	5.976	5.969	(1.007)	2374	0.00382	3.82
* 20 Acenaphthylene-d8		160	6.193	6.194	(1.000)	559723	0.50000	0.500

Calc 7/28/11

Data File: /var/chem/gcms/mp.i/P072911.b/mk2d01aa.d

Report Date: 05-Aug-2011 13:50

Compounds	QUANT SIG	MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN	FINAL
							(ug/ml)	(ng/sample)
=====	=====	=====	=====	=====	=====	=====	=====	=====
\$ 21 Acenaphthylene-d8 (SS)		160	6.193	6.194	(0.979)	559723	0.52150	522
22 Acenaphthylene		152	6.202	6.202	(1.001)	535	0.000474	0.474
* 23 Acenaphthene-d10		164	6.324	6.325	(1.000)	303344	0.50000	0.500
24 Acenaphthene		154	6.350	6.350	(1.025)	2479	0.00368	3.68
25 2,3,5 Trimethylnaphthalene		170	6.668	6.669	(1.124)	585	0.00113	1.13
27 Fluorene		166	6.785	6.783	(0.895)	3565	0.00485	4.85
* 34 Dibenzothiophene-d8		192	7.474	7.474	(1.000)	517814	0.50000	0.500
\$ 35 Dibenzothiophene-d8 (SS)		192	7.474	7.474	(0.841)	517814	0.39860	399
36 Dibenzothiophene		184	7.490	7.489	(1.002)	1575	0.00159	1.59
* 41 Phenanthrene-d10		188	7.578	7.578	(1.000)	479727	0.50000	0.500
\$ 42 Phenanthrene-d10 (SS)		188	7.578	7.578	(0.853)	479727	0.40931	409
43 Phenanthrene		178	7.598	7.597	(1.003)	23727	0.02253	22.5
* 44 Anthracene-d10		188	7.625	7.626	(1.000)	459247	0.50000	0.500
\$ 45 Anthracene-d10 (SS)		188	7.625	7.626	(0.858)	459247	0.46402	464
46 Anthracene		178	7.640	7.642	(1.002)	1131	0.000957	0.957
\$ 47 13C6-Anthracene		184	7.642	7.642	(0.860)	429515	0.40038	400
52 1-Methylphenanthrene		192	8.148	8.143	(1.075)	920	0.00145	1.45
* 53 Fluoranthene-d10		212	8.665	8.665	(1.000)	543863	0.50000	0.500
\$ 54 Fluoranthene-d10 (SS)		212	8.665	8.665	(0.975)	543863	0.49821	498
55 Fluoranthene		202	8.682	8.683	(1.002)	7426	0.00607	6.07
* 56 Pyrene-d10		212	8.887	8.885	(1.000)	445002	0.50000	0.500
57 Pyrene		202	8.904	8.904	(1.028)	4145	0.00320	3.20
* 60 Benzo (a) anthracene-d12		240	10.099	10.100	(1.000)	390378	0.50000	0.500
\$ 61 Benzo (a) anthracene-d12 (SS)		240	10.099	10.100	(1.136)	390378	0.71922	719 (R)
* 63 Chrysene-d12		240	10.133	10.133	(1.000)	427679	0.50000	0.500
\$ 64 Chrysene-d12 (SS)		240	10.133	10.133	(1.140)	427679	0.44912	449
65 Chrysene		228	10.162	10.163	(1.003)	2481	0.00266	2.66
* 70 Benzo (b) fluoranthene-d12		264	11.253	11.253	(1.000)	381466	0.50000	0.500
\$ 71 Benzo (b) fluoranthene-d12 (SS)		264	11.253	11.253	(0.973)	381466	0.57929	579
72 Benzo (b) fluoranthene		252	11.283	11.277	(1.003)	3706	0.00331	3.31 (H)
* 73 Benzo (k) fluoranthene-d12		264	11.289	11.289	(1.000)	420652	0.50000	0.500
\$ 74 Benzo (k) fluoranthene-d12 (SS)		264	11.289	11.289	(0.976)	420656	0.44759	448
75 Benzo (k) fluoranthene		252	11.312	11.307	(1.002)	4378	0.00475	4.75
* 76 Benzo (e) pyrene-d12		264	11.569	11.570	(1.000)	312260	0.50000	0.500
77 Benzo (e) pyrene		252	11.599	11.600	(0.997)	1510	0.00150	1.50
* 78 Benzo (a) pyrene-d12		264	11.635	11.635	(1.000)	371316	0.50000	0.500
\$ 79 Benzo (a) pyrene-d12 (SS)		264	11.635	11.635	(1.006)	371316	0.55149	551
80 Benzo (a) pyrene		252	11.665	11.665	(1.003)	2392	0.00284	2.84
* 81 Perylene-d12		264	11.737	11.737	(1.000)	343498	0.50000	0.500
\$ 82 Perylene-d12 (SS)		264	11.737	11.737	(1.014)	343498	0.51152	512
83 Perylene		252	11.767	11.761	(1.003)	1407	0.00163	1.63
* 84 Indeno (123-cd) pyrene-d12		288	13.106	13.106	(1.000)	401017	0.50000	0.500
\$ 85 Indeno (123-cd) pyrene-d12 (SS)		288	13.106	13.106	(1.133)	401017	0.52121	521
86 Indeno (1,2,3-cd) pyrene		276	13.144	13.140	(1.003)	973	0.00100	1.00
* 87 Dibenzo (ah) anthracene-d14		292	13.110	13.110	(1.000)	294881	0.50000	0.500
\$ 88 Dibenzo (ah) anthracene-d14 (SS)		292	13.110	13.110	(1.133)	294881	0.50317	503
89 Dibenzo (a,h) anthracene		278	13.156	13.157	(1.004)	654	0.000903	0.903

Data File: /var/chem/gcms/mp.i/P072911.b/mk2d01aa.d

Report Date: 05-Aug-2011 13:50

Compounds	QUANT SIG						CONCENTRATIONS	
	MASS	RT	EXP RT	REL RT	RT	RESPONSE	ON-COLUMN (ug/ml)	FINAL (ng/sample)
=====	=====	==	=====	=====		=====	=====	=====
* 90 Benzo(ghi)perylene-d12	288	13.460	13.460	(1.000)		277371	0.50000	0.500
\$ 91 Benzo(ghi)perylene-d12(SS)	288	13.460	13.460	(1.163)		277371	0.47970	480
92 Benzo(g,h,i)perylene	276	13.494	13.494	(1.002)		900	0.00117	1.17

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

H - Operator selected an alternate compound hit.

Data File: /var/chem/gcms/mp.i/P072911.b/mk2d01aa.d

Report Date: 05-Aug-2011 11:21

TestAmerica Knoxville

RECOVERY REPORT

Client Name: ITSBUR

Sample Matrix: GAS

Lab Smp Id: MK2D01AA

Level: LOW

Data Type: MS DATA

SpikeList File: icv.spk

Sublist File: pah.sub

Method File: /var/chem/gcms/mp.i/P072911.b/SIMPAH3.m

Misc Info: P072911,SIMPAH3

Client SDG: H1G200000

Fraction: SV

Client Smp ID: INTRA-LAB BLANK

Operator: 11211

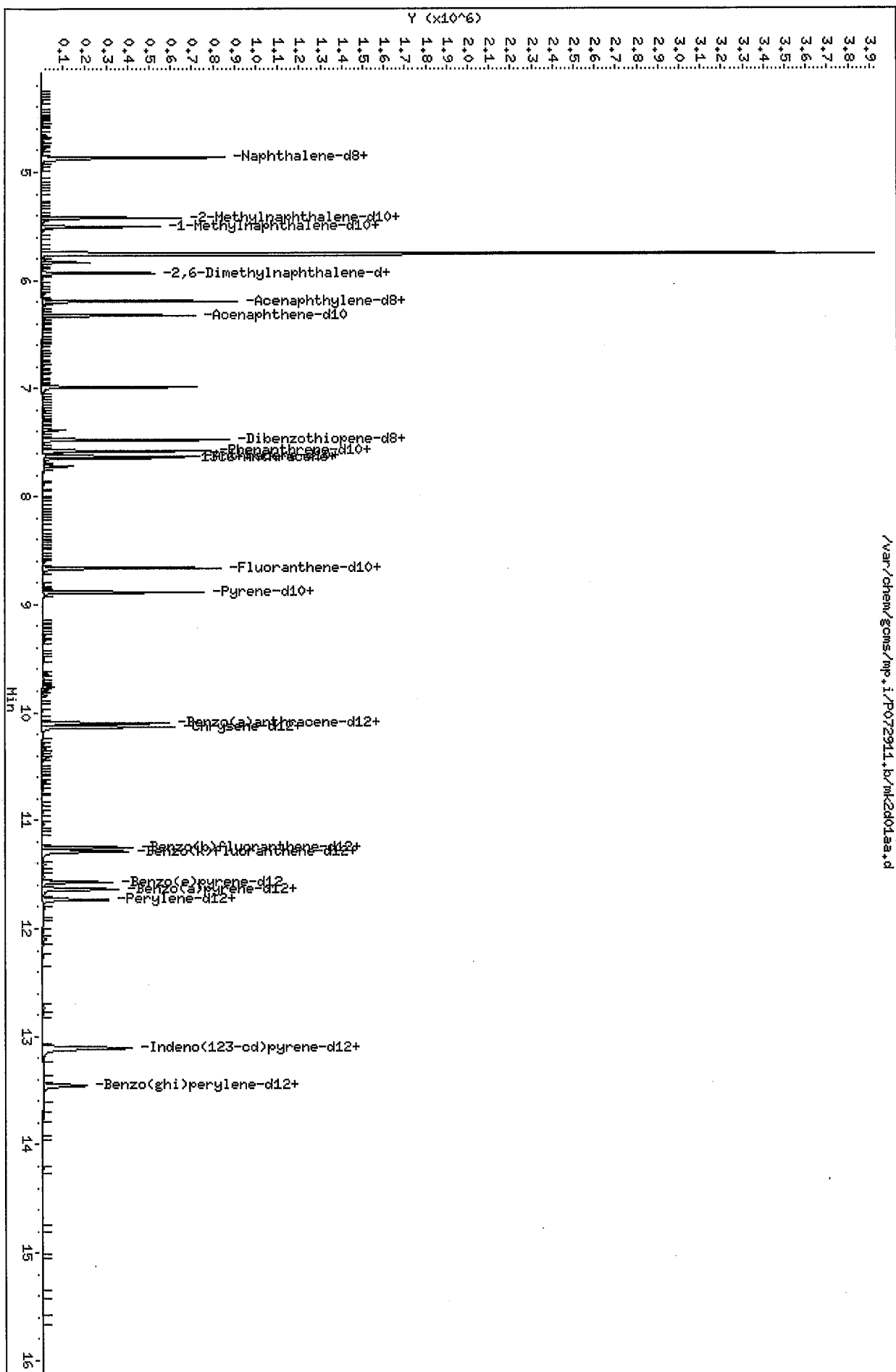
SampleType: METHOD BLANK

Quant Type: ISTD

SURROGATE COMPOUND	CONC ADDED ng/sample	CONC RECOVERED ng/sample	% RECOVERED	LIMITS <i>calc 8.5.11</i>
\$ 2 Naphthalene-d8 (SS)	500	443	88.55	30-120
\$ 222 13C6-Naphthalene	500	0.00	*	50-150
\$ 11 2-Methylnaphthalen	500	468	93.69	30-120
\$ 14 1-Methylnaphthalen	500	460	91.96	30-120
\$ 18 2,6-Dimethylnaph-d	500	475	94.93	30-120
\$ 21 Acenaphthylene-d8 (	500	522	104.30	30-120
\$ 26 Fluorene-d10	1000	0.00	*	30-120
\$ 28 13C6-Fluorene	1000	0.00	*	30-120
\$ 35 Dibenzothiopene-d8	500	399	79.72	30-120
\$ 42 Phenanthrene-d10 (S	500	409	81.86	30-120
\$ 45 Anthracene-d10 (SS)	500	464	92.80	30-120
\$ 47 13C6-Anthracene	500	400	80.08	30-120
\$ 54 Fluoranthene-d10 (S	500	498	99.64	0-120
\$ 58 Terphenyl-d14	1000	0.00	*	30-120
\$ 61 Benzo(a)anthracene	500	719	143.84*	30-120
\$ 64 Chrysene-d12 (SS)	500	449	89.82	30-120
\$ 71 Benzo(b)fluoranthene	500	579	115.86	30-120
\$ 74 Benzo(k)fluoranthene	500	448	89.52	30-120
\$ 79 Benzo(a)pyrene-d12	500	551	110.30	30-120
\$ 82 Perylene-d12 (SS)	500	512	102.30	30-120
\$ 85 Indeno(123-cd)pyrene	500	521	104.24	30-120
\$ 88 Dibenz(ah)anthracene	500	503	100.63	30-120
\$ 91 Benzo(ghi)perylene	500	480	95.94	30-120

Data File: /var/chem/gcms/mp.i/P072911.b/mk2d01aa.d
 Date : 29-JUL-2011 11:48
 Client ID: INTRA-LAB BLANK
 Sample Info: ,3, BLANK
 Purge Volume: 1.0
 Column phase: Variant: SMS

Instrument: mp.i
 Operator: 11211
 Column diameter: 0.25



Data File: /var/chem/gcms/mp.i/P072911.b/mk2d01aa.d

Date : 29-JUL-2011 11:48

Client ID: INTRA-LAB BLANK

Instrument: mp.i

Sample Info: ,,3,,BLANK

Purge Volume: 1.0

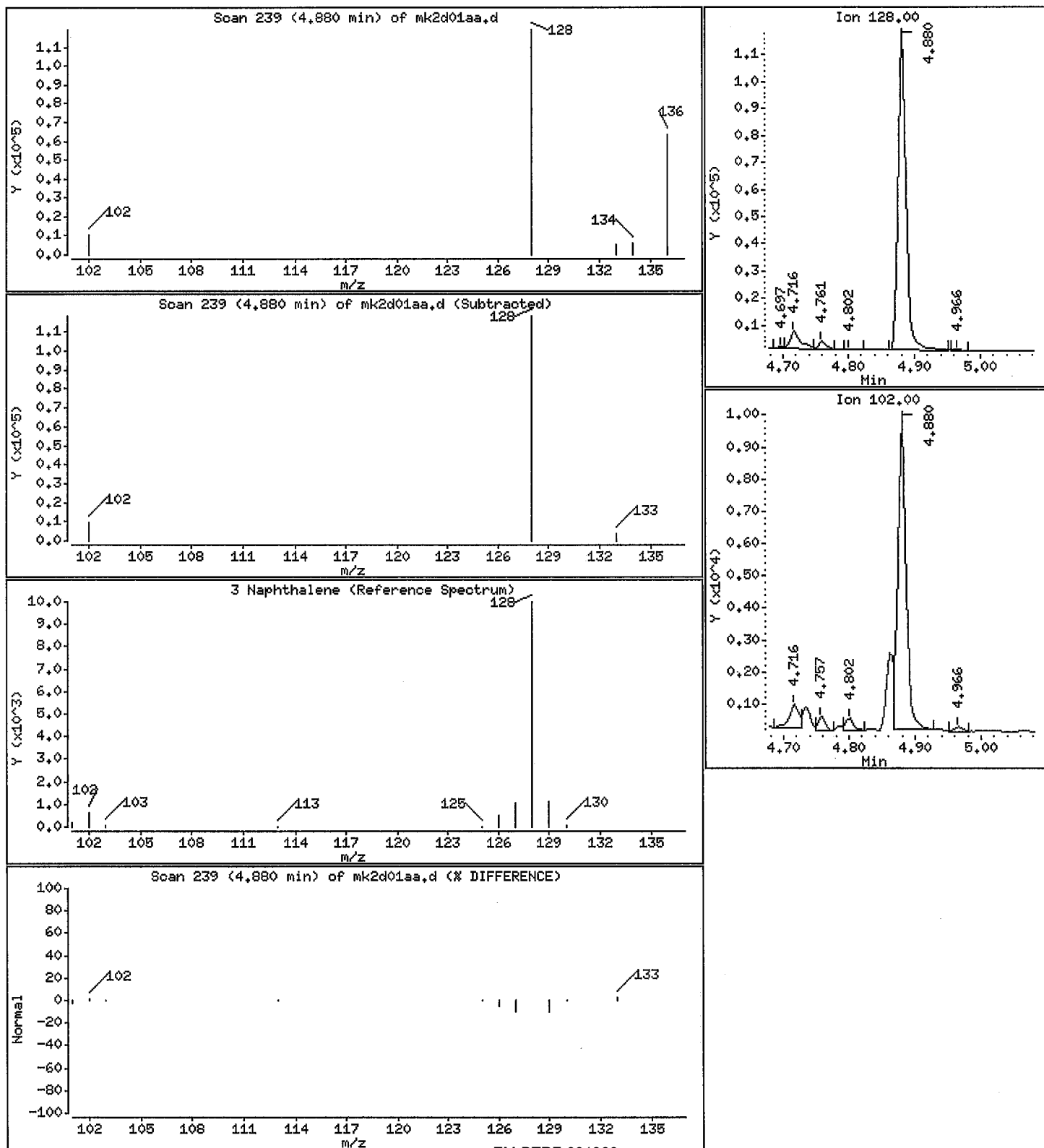
Operator: 11211

Column phase: Variant: 5MS

Column diameter: 0.25

3 Naphthalene

Concentration: 94.0 ng/sample



Data File: /var/chem/gcms/mp.i/P072911.b/mk2d01aa.d

Date: 29-JUL-2011 11:48

Client ID: INTRA-LAB BLANK

Instrument: mp.i

Sample Info: ,,3,,BLANK

Purge Volume: 1.0

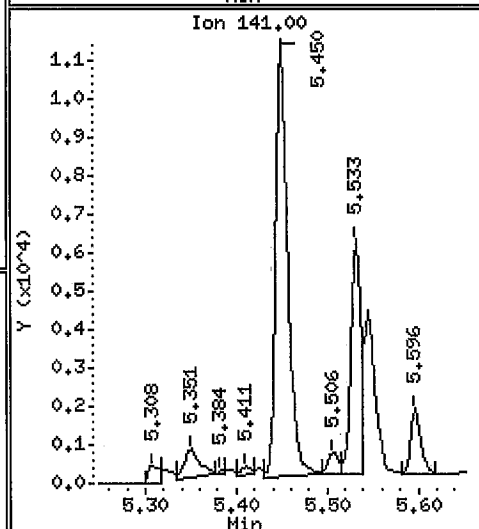
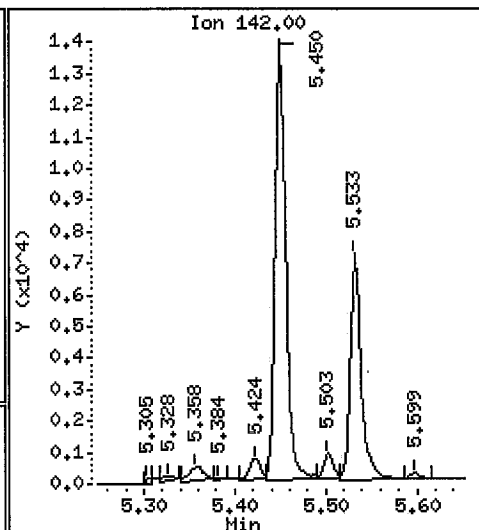
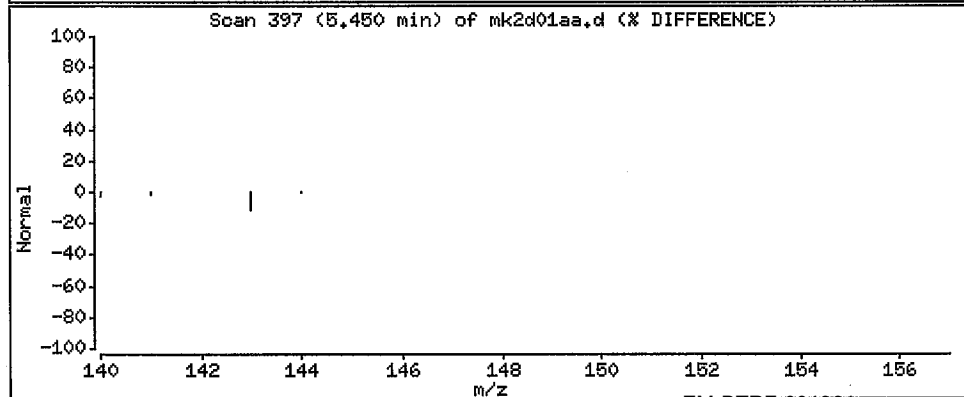
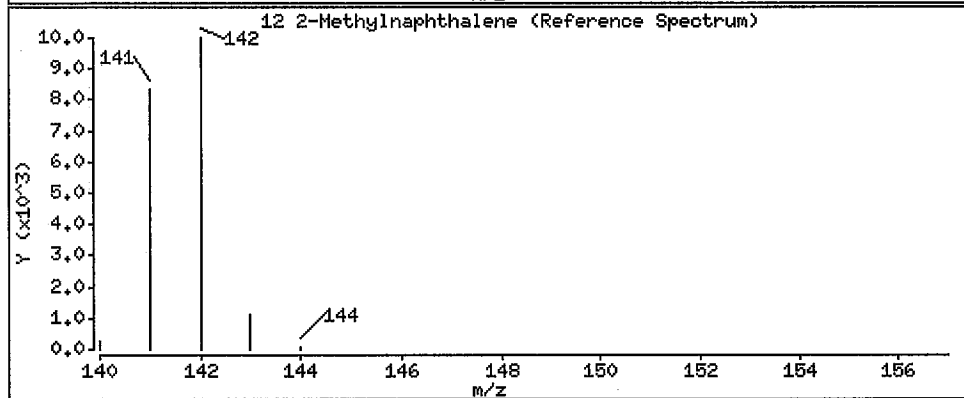
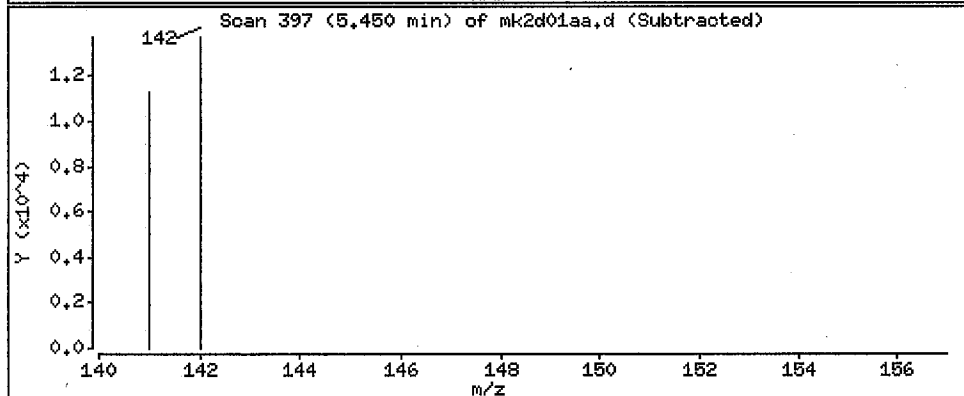
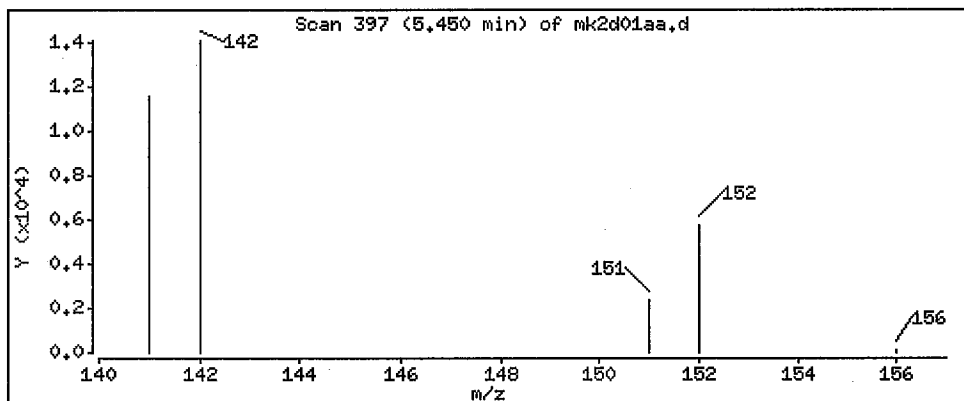
Operator: 11211

Column phase: Variant: SMS

Column diameter: 0.25

12 2-Methylnaphthalene

Concentration: 15.0 ng/sample



Data File: /var/chem/gcms/mp,i/P072911,b/mk2d01aa,d

Date : 29-JUL-2011 11:48

Client ID: INTRA-LAB BLANK

Instrument: mp.i

Sample Info: ,,3,,BLANK

Purge Volume: 1.0

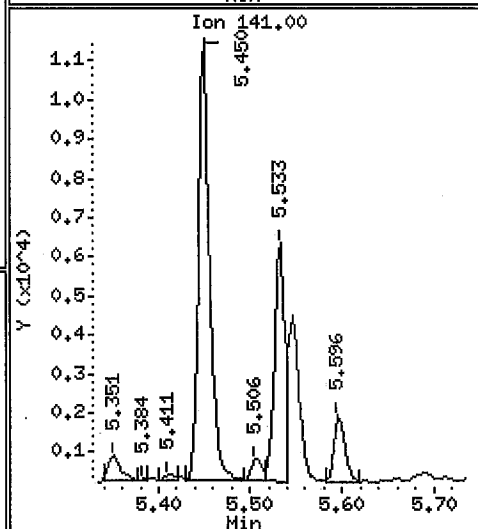
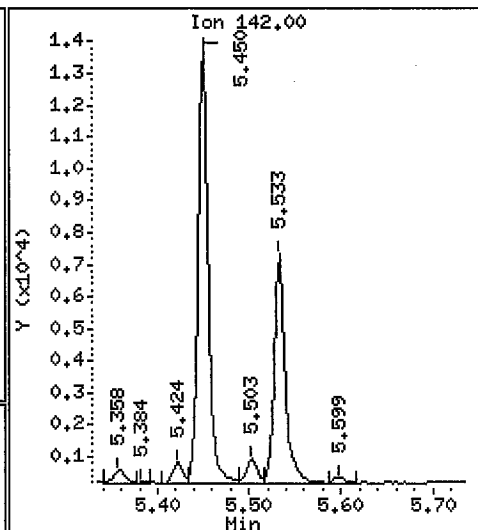
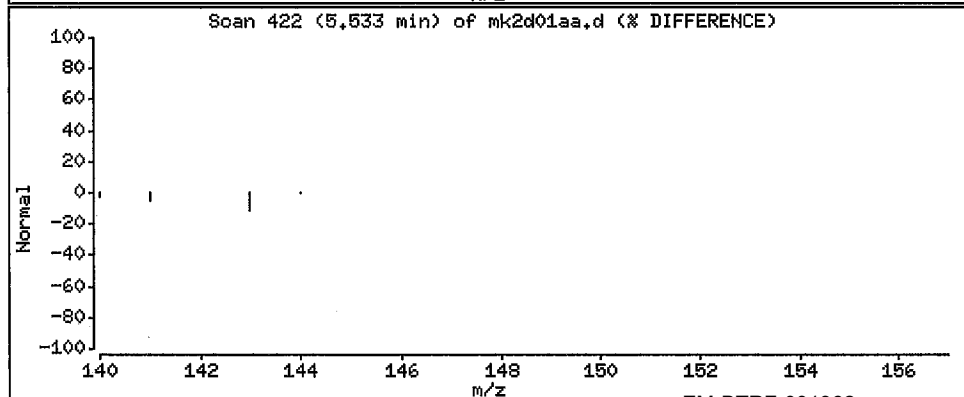
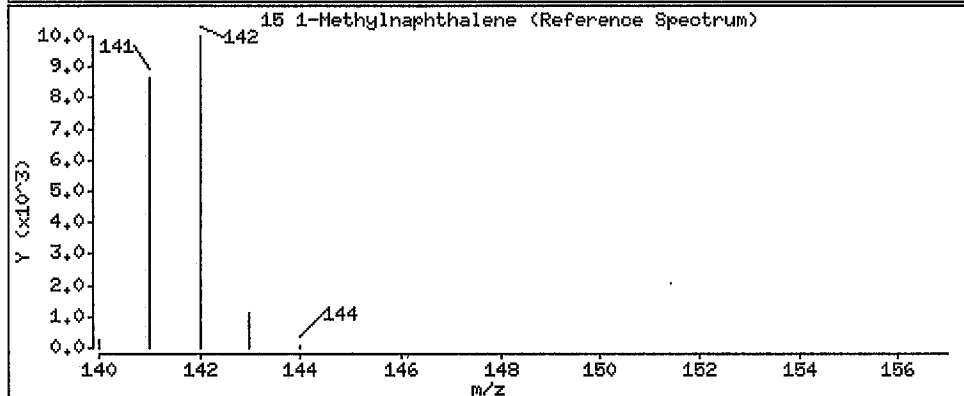
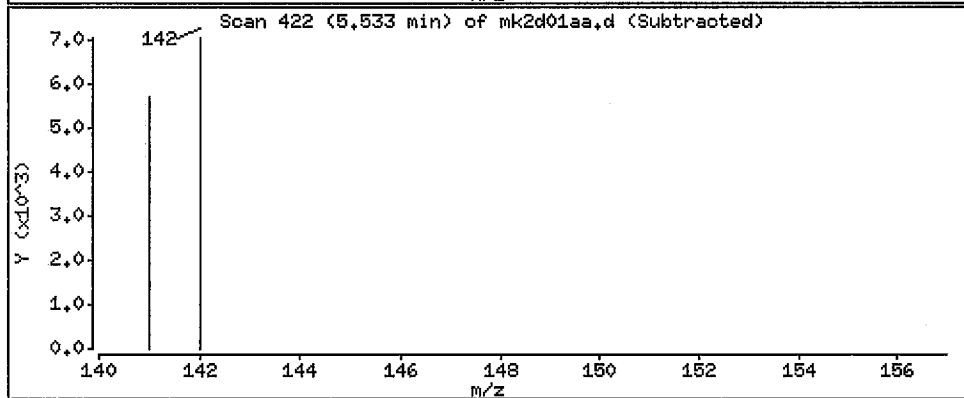
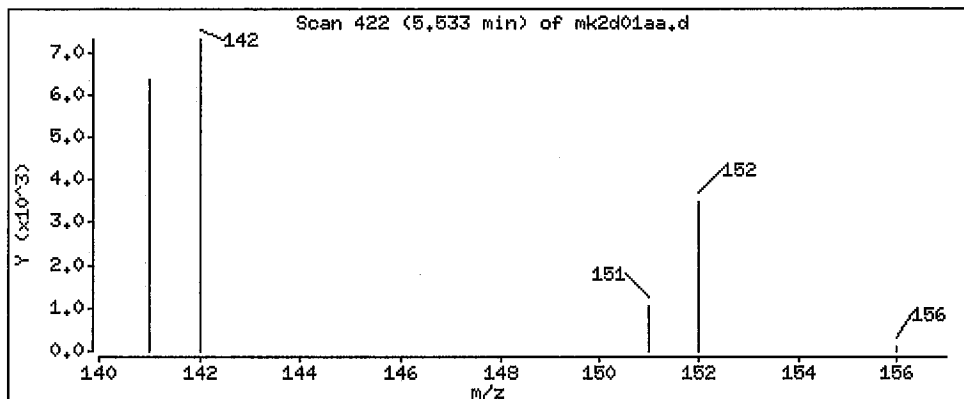
Operator: 11211

Column phase: Variant 5MS

Column diameter: 0.25

15 1-Methylnaphthalene

Concentration: 8.66 ng/sample



Data File: /var/chem/gcms/mp.i/P072911.b/mk2d01aa.d

Date : 29-JUL-2011 11:48

Client ID: INTRA-LAB BLANK

Instrument: mp.i

Sample Info: ,,3,,BLANK

Purge Volume: 1.0

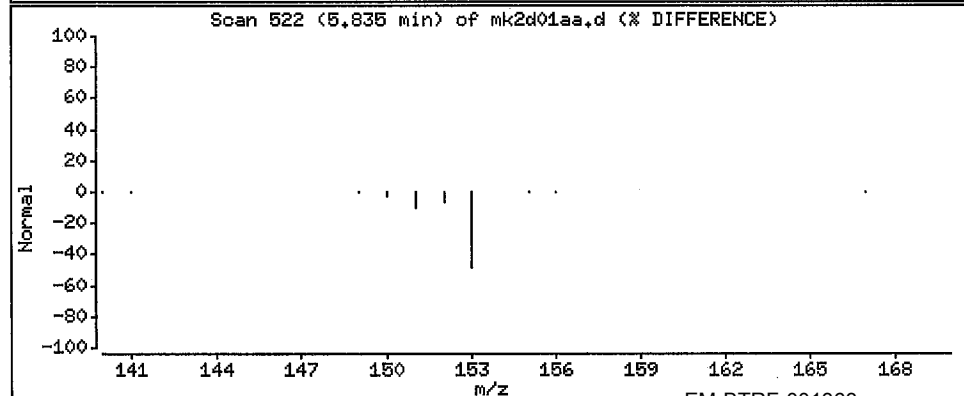
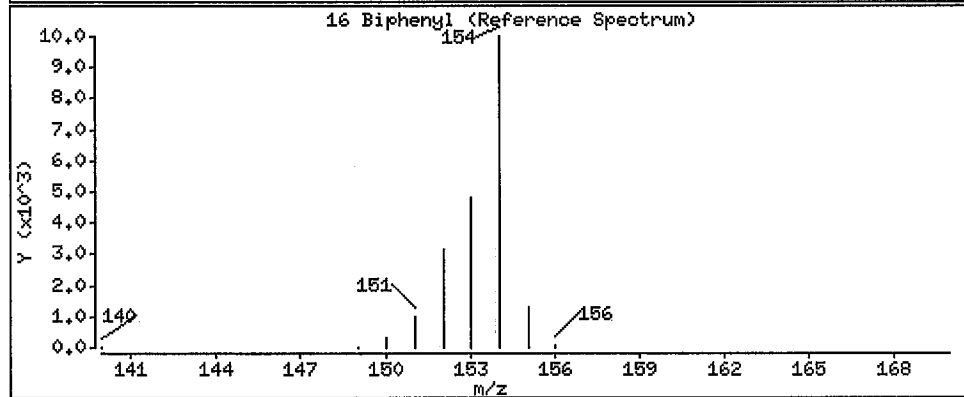
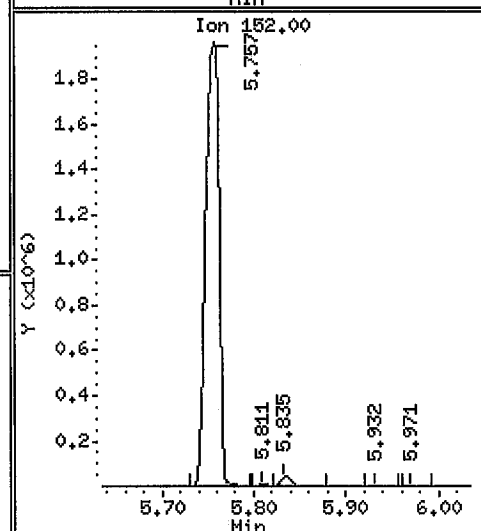
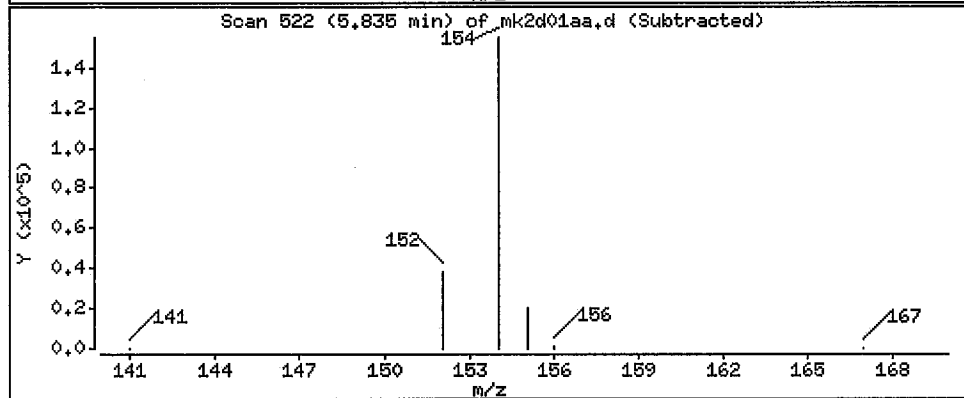
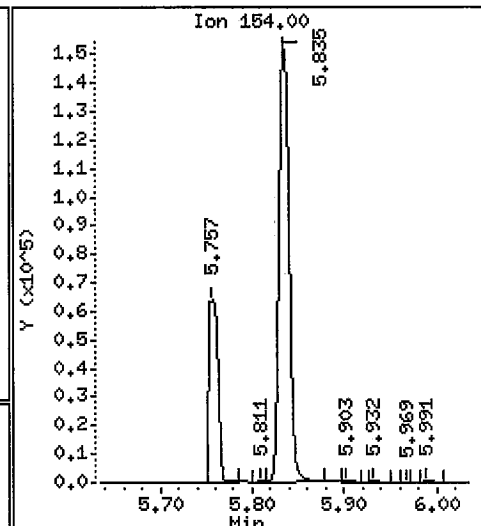
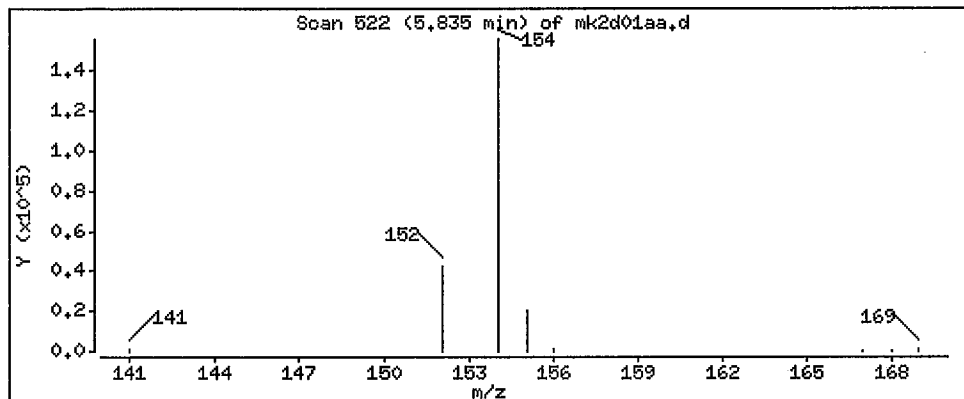
Operator: 11211

Column phase: Varian: 5MS

Column diameter: 0,25

16 Biphenyl

Concentration: 129 ng/sample



EM-BTRF-001363

Data File: /var/chem/gcms/mp.i/P072911.b/mk2d01aa.d

Date : 29-JUL-2011 11:48

Client ID: INTRA-LAB BLANK

Instrument: mp.i

Sample Info: ,,3,,BLANK

Purge Volume: 1.0

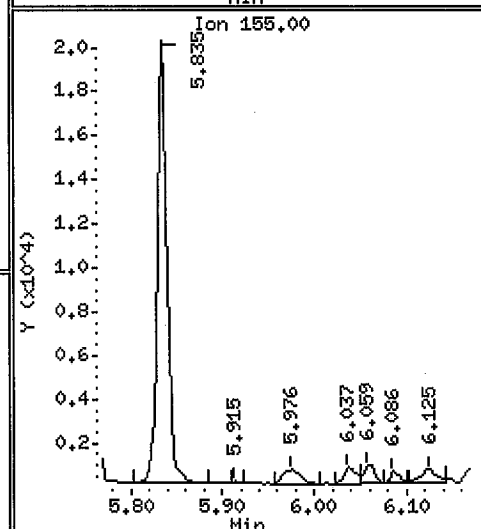
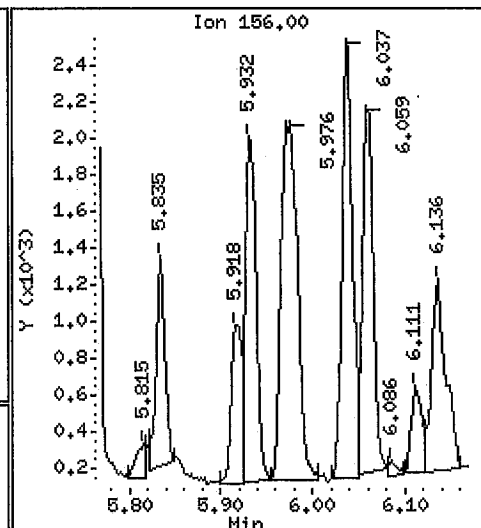
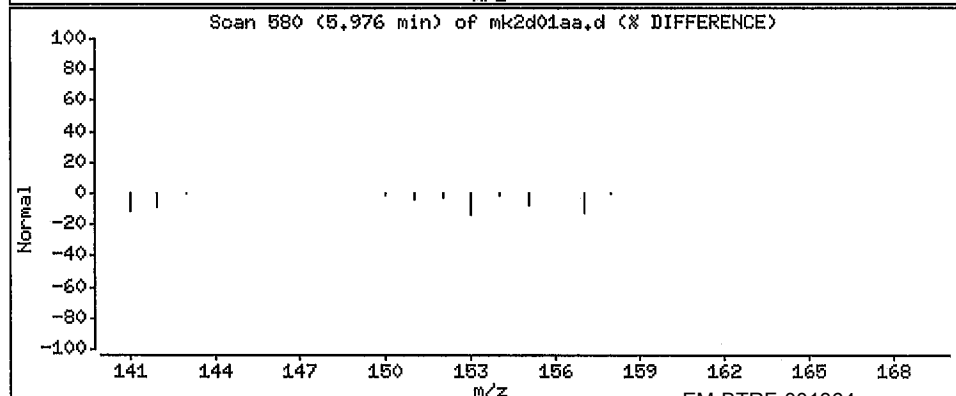
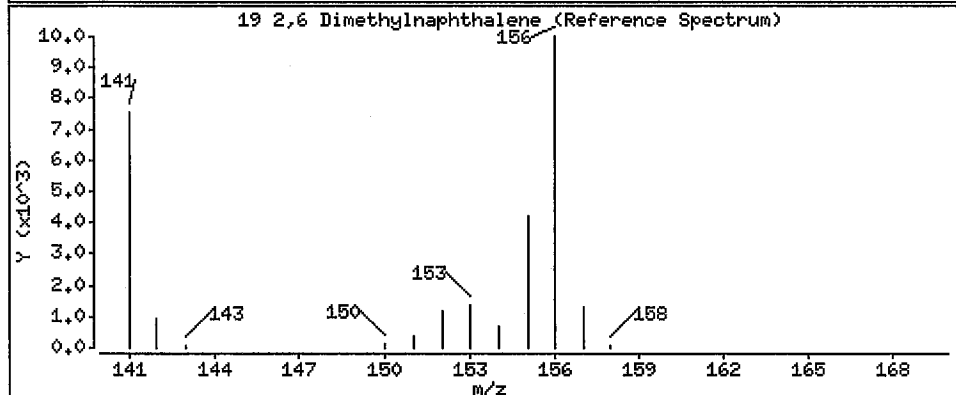
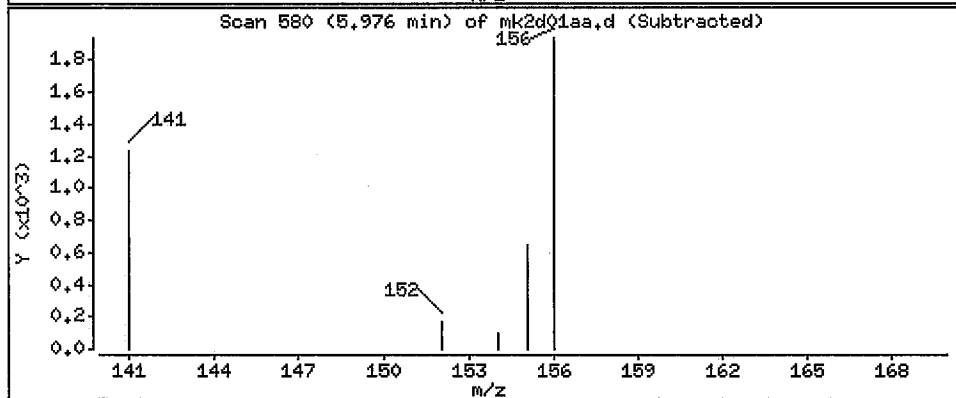
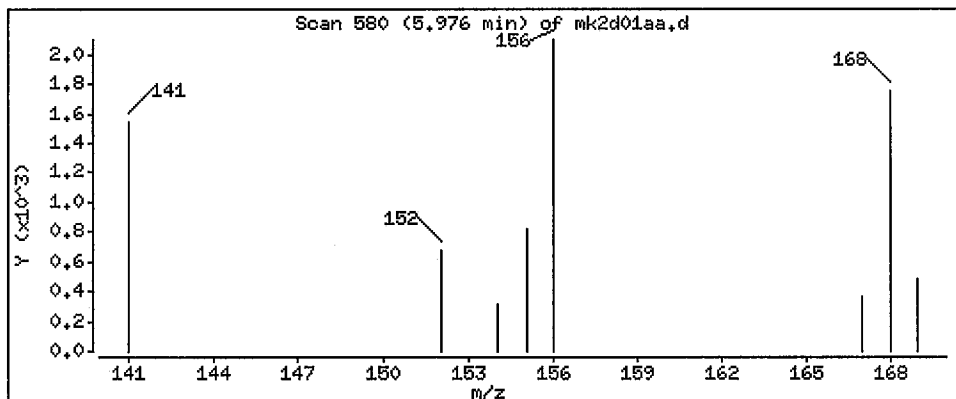
Operator: 11211

Column phase: Varian: SMS

Column diameter: 0.25

19 2,6 Dimethylnaphthalene

Concentration: 3.82 ng/sample



Data File: /var/chem/gcms/mp.i/P072911.b/mk2d01aa.d

Date : 29-JUL-2011 11:48

Client ID: INTRA-LAB BLANK

Instrument: mp.i

Sample Info: ,,3,,BLANK

Purge Volume: 1.0

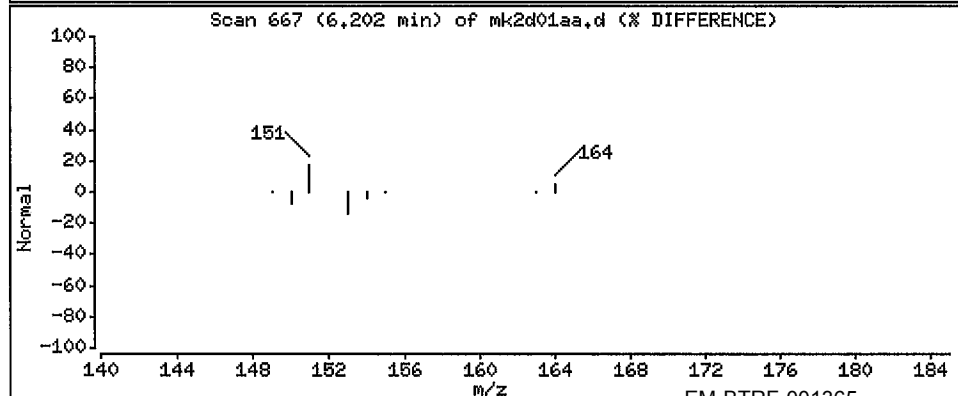
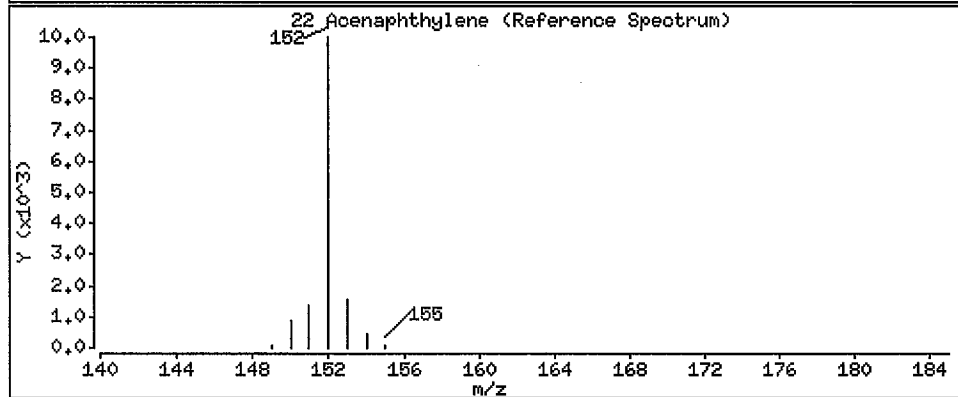
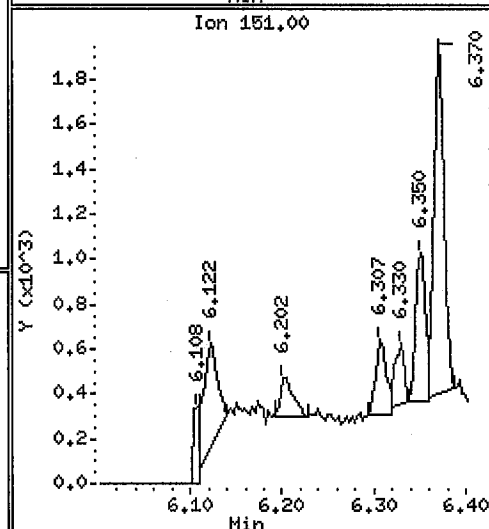
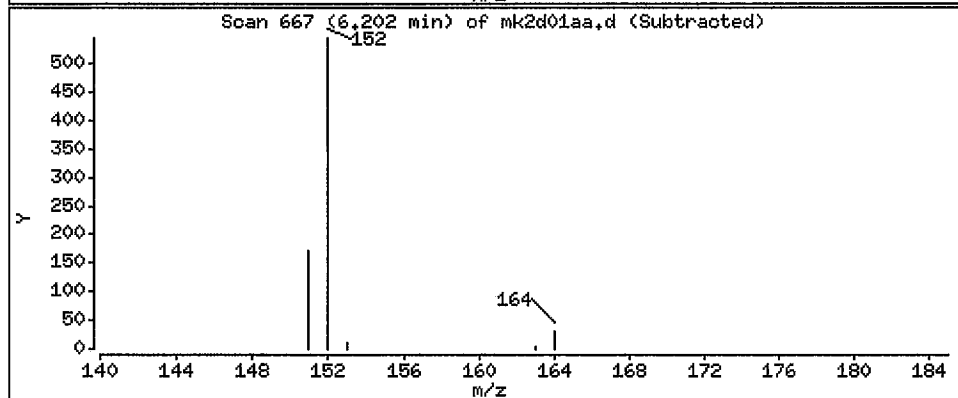
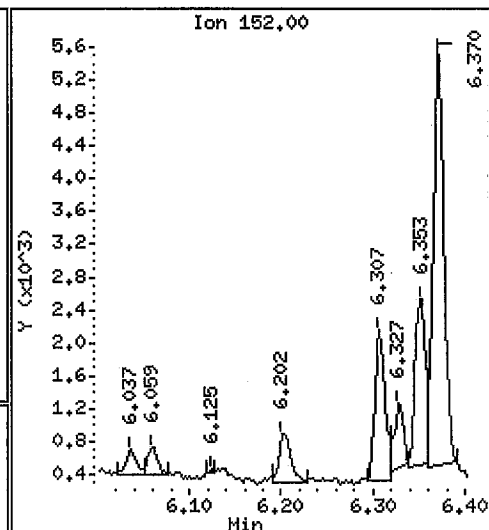
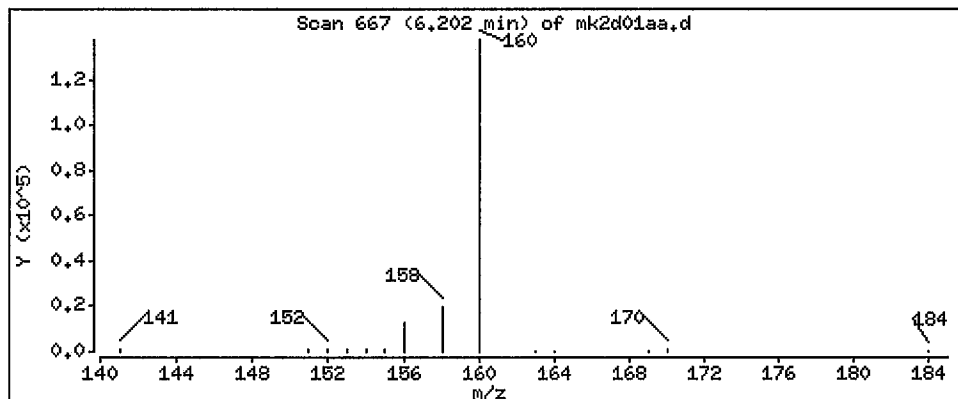
Operator: 11211

Column phase: Varian: 5MS

Column diameter: 0.25

22 Acenaphthylene

Concentration: 0.474 ng/sample



EM-BTRF-001365

Data File: /var/chem/gcms/mp.i/P072911.b/mk2d01aa.d

Date : 29-JUL-2011 11:48

Client ID: INTRA-LAB BLANK

Instrument: mp.i

Sample Info: ,,3,,BLANK

Purge Volume: 1.0

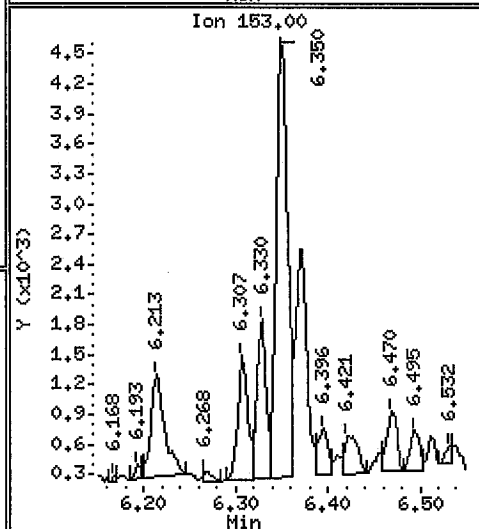
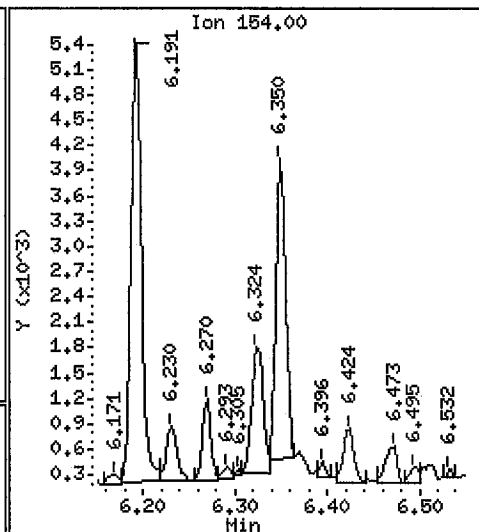
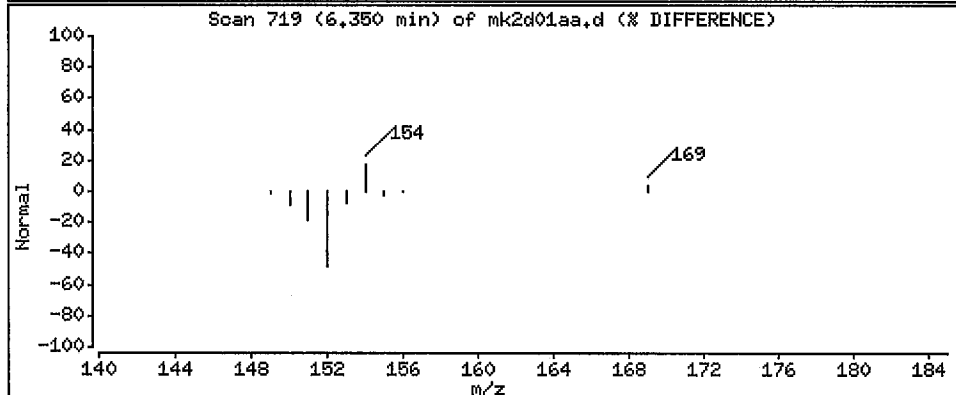
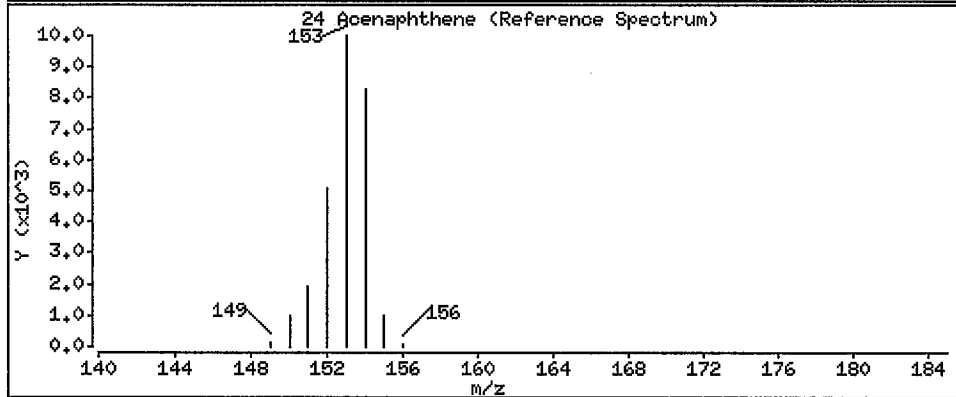
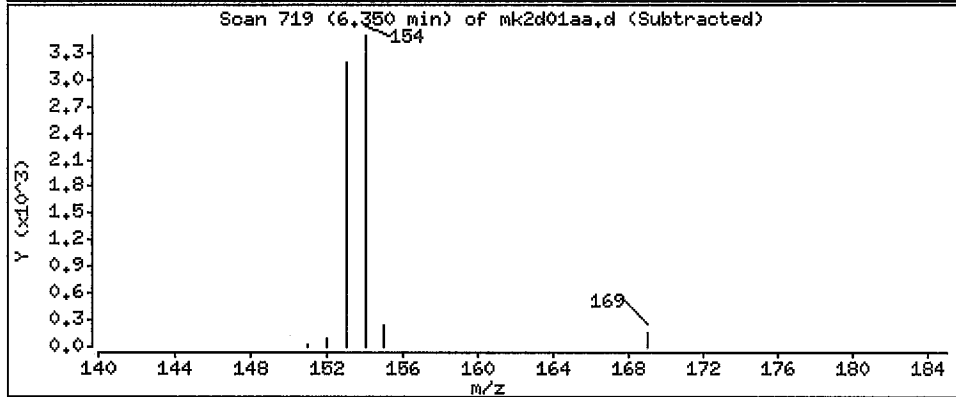
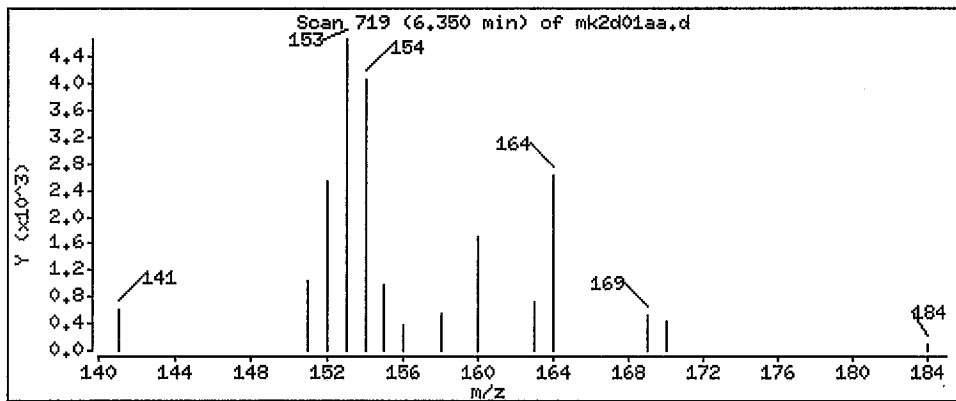
Operator: 11211

Column phase: Varian: 5MS

Column diameter: 0.25

24 Acenaphthene

Concentration: 3.68 ng/sample



Data File: /var/chem/gcms/mp.i/P072911.b/mk2d01aa.d

Date : 29-JUL-2011 11:48

Client ID: INTRA-LAB BLANK

Instrument: mp.i

Sample Info: ,,3,,BLANK

Purge Volume: 1.0

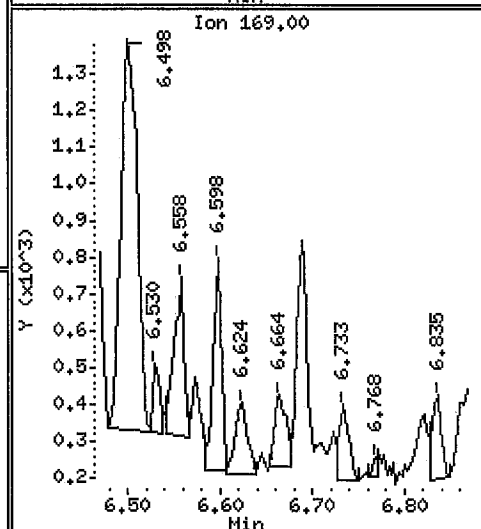
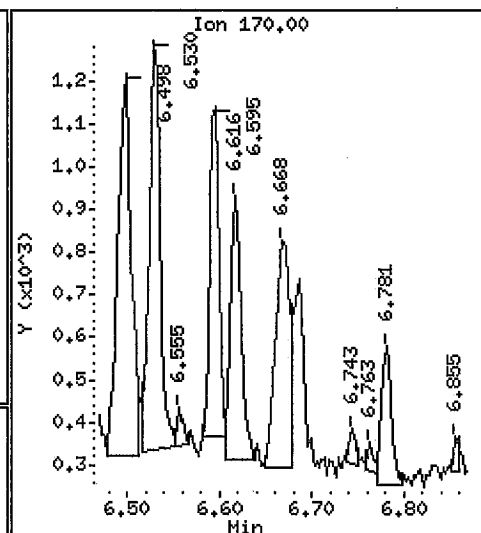
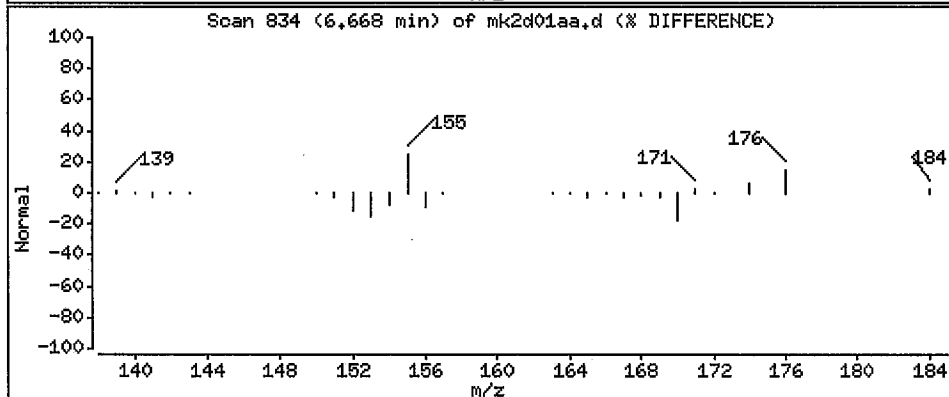
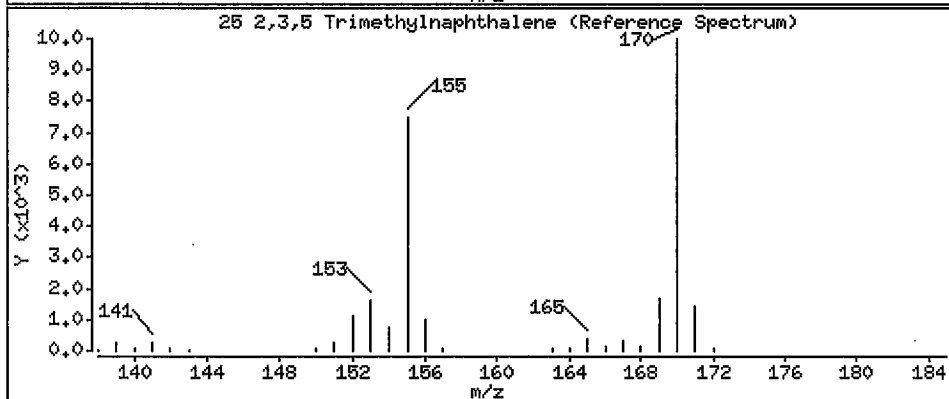
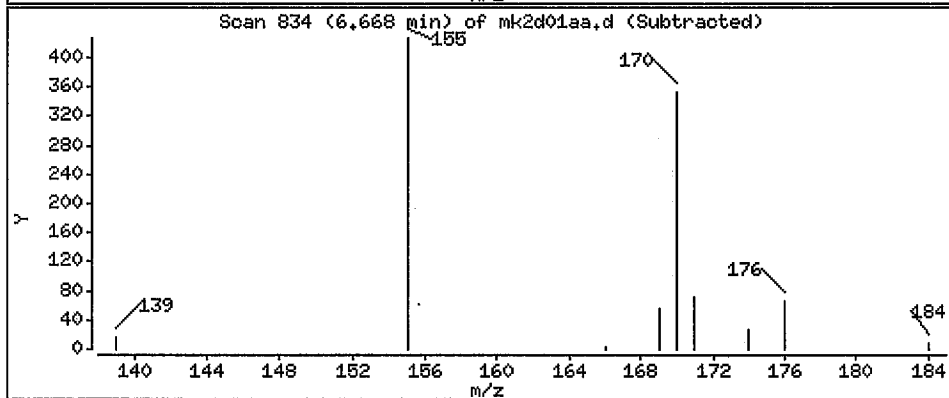
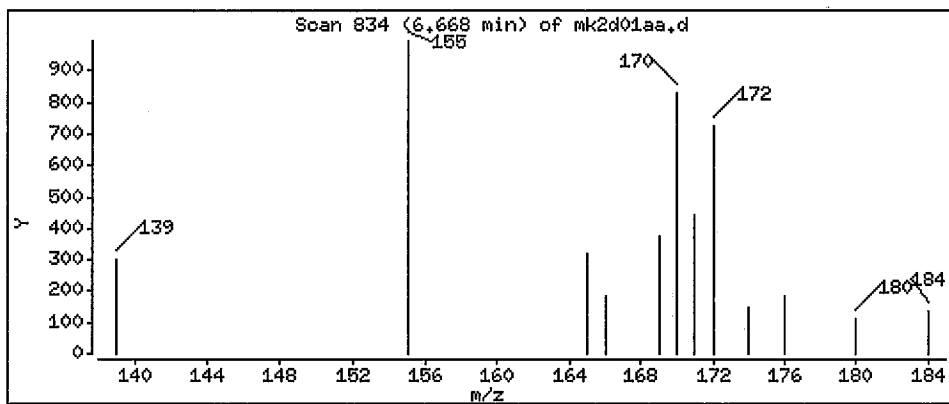
Operator: 11211

Column phase: Variant 5MS

Column diameter: 0.25

25 2,3,5 Trimethylnaphthalene

Concentration: 1.13 ng/sample



Data File: /var/chem/gcms/mp.i/P072911.b/mk2d01aa.d

Date : 29-JUL-2011 11:48

Client ID: INTRA-LAB BLANK

Instrument: mp.i

Sample Info: ,,3,,BLANK

Purge Volume: 1.0

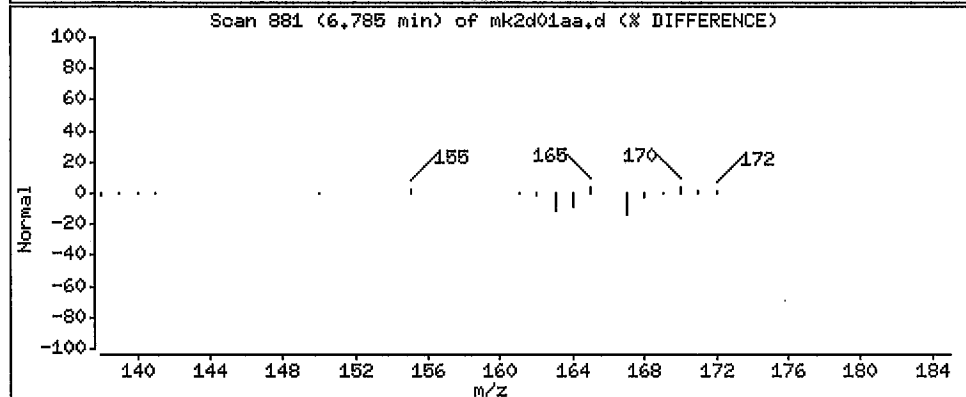
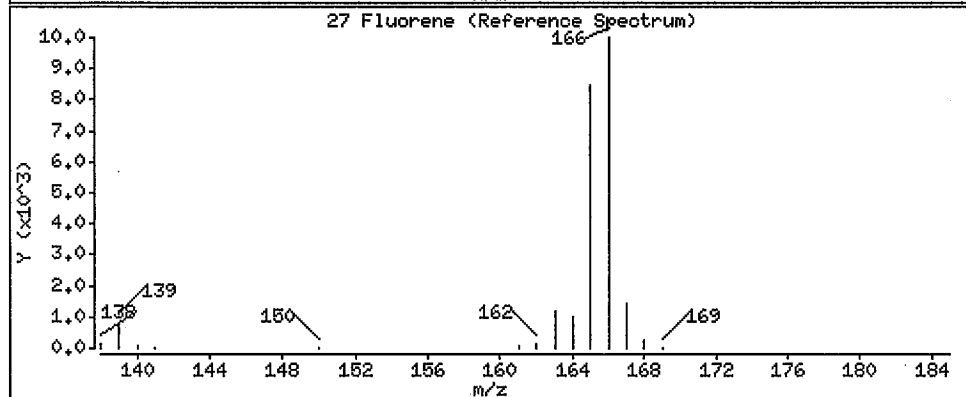
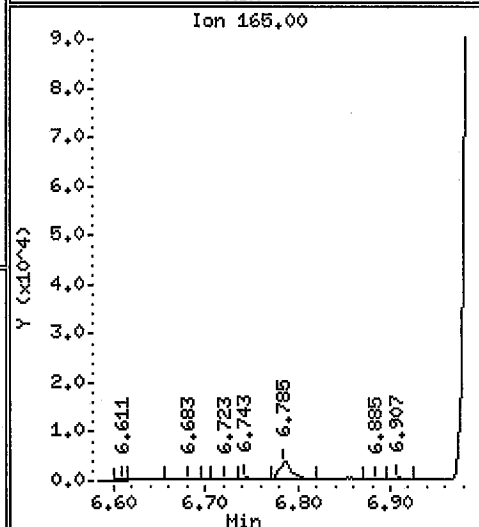
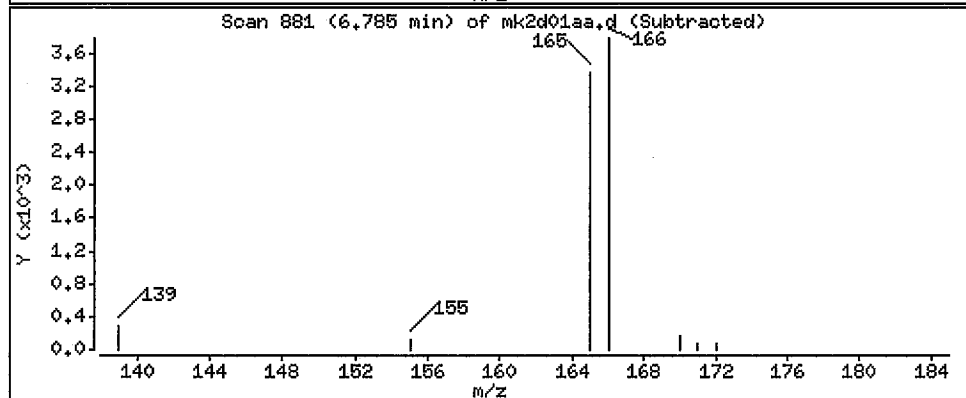
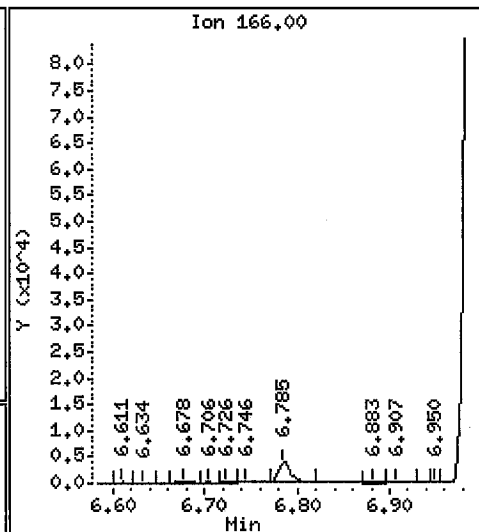
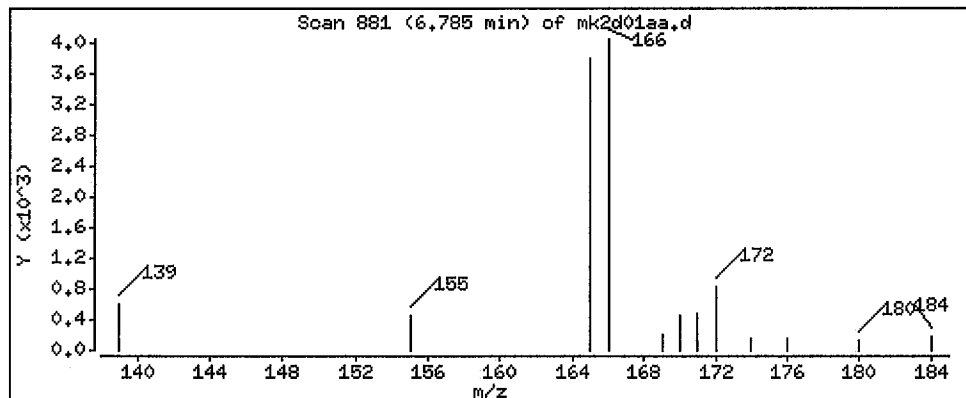
Operator: 11211

Column phase: Variant 5MS

Column diameter: 0.25

27 Fluorene

Concentration: 4.85 ng/sample



EM-BTRF-001368

Data File: /var/chem/gcms/mp.i/P072911.b/mk2d01aa.d

Date : 29-JUL-2011 11:48

Client ID: INTRA-LAB BLANK

Instrument: mp.i

Sample Info: ,,3,,BLANK

Purge Volume: 1.0

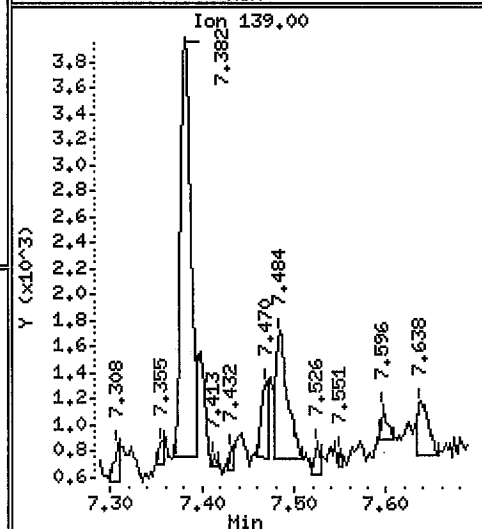
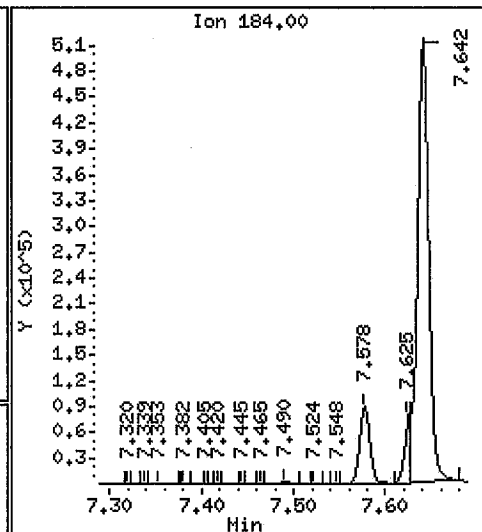
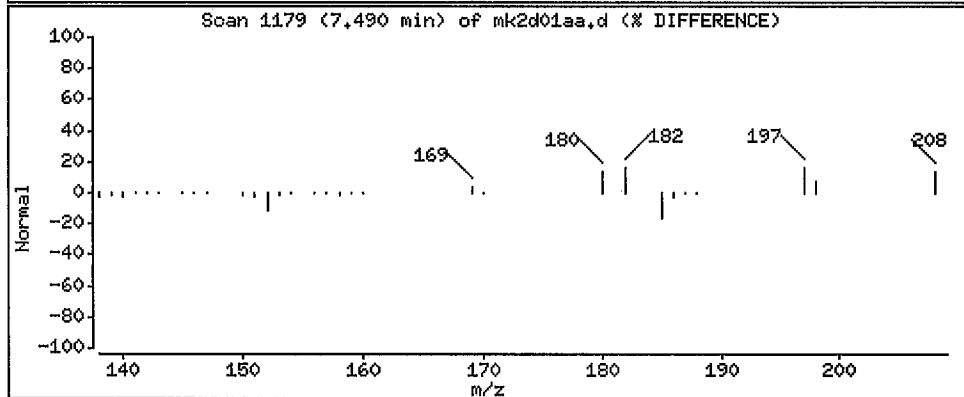
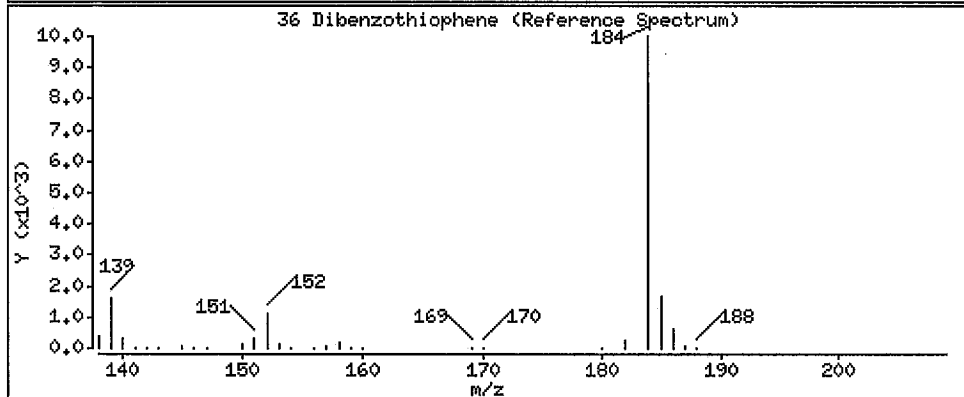
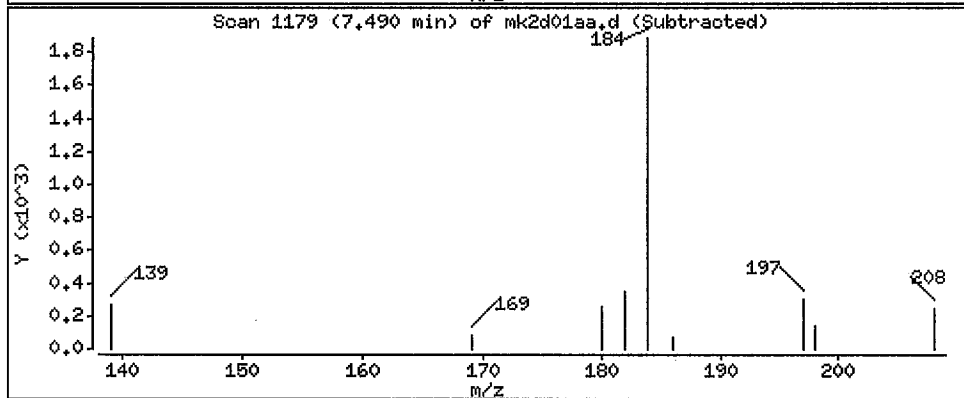
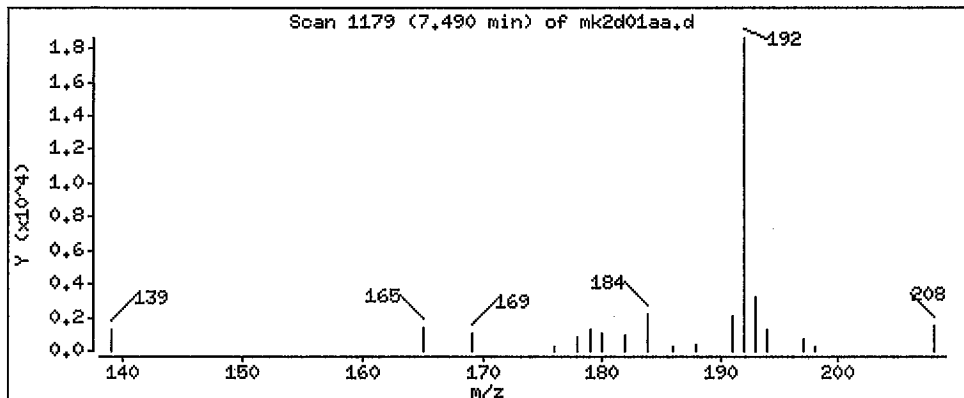
Operator: 11211

Column phase: Variant: 5MS

Column diameter: 0.25

36 Dibenzothiophene

Concentration: 1.59 ng/sample



Data File: /var/chem/gcms/mp.i/P072911.b/mk2d01aa.d

Date: 29-JUL-2011 11:48

Client ID: INTRA-LAB BLANK

Instrument: mp.i

Sample Info: ,,3,,BLANK

Purge Volume: 1.0

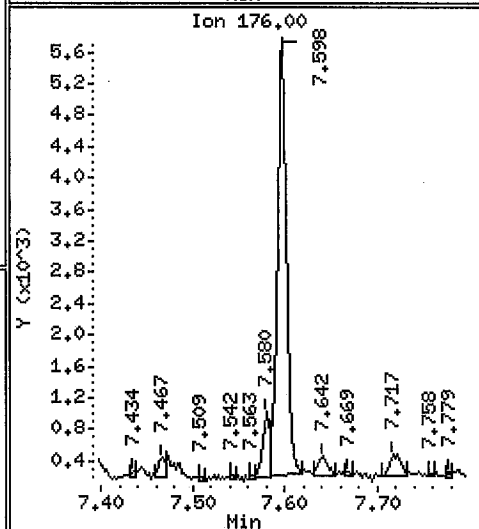
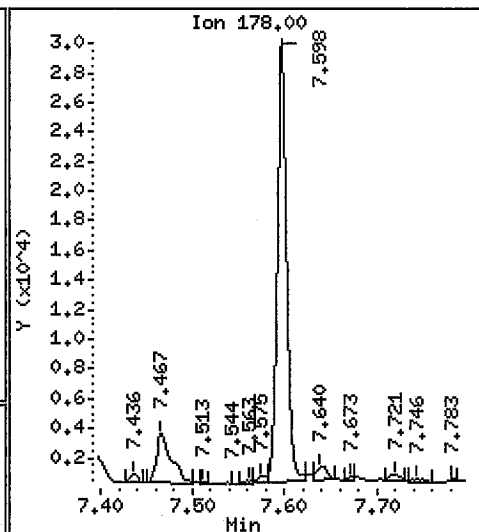
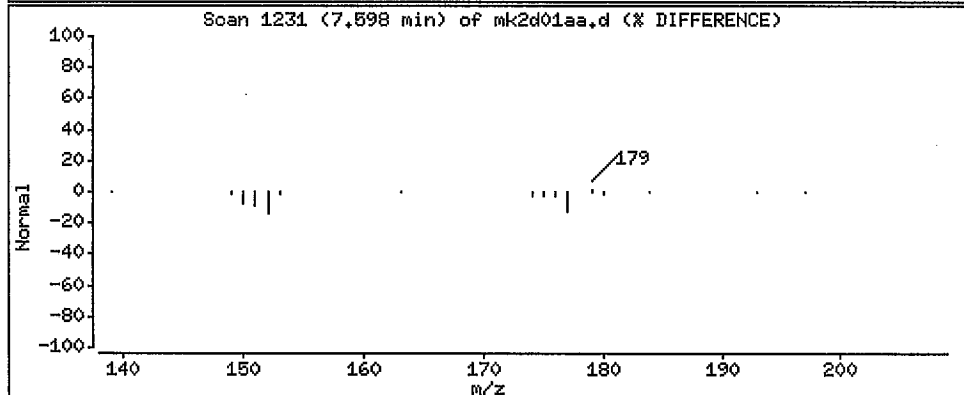
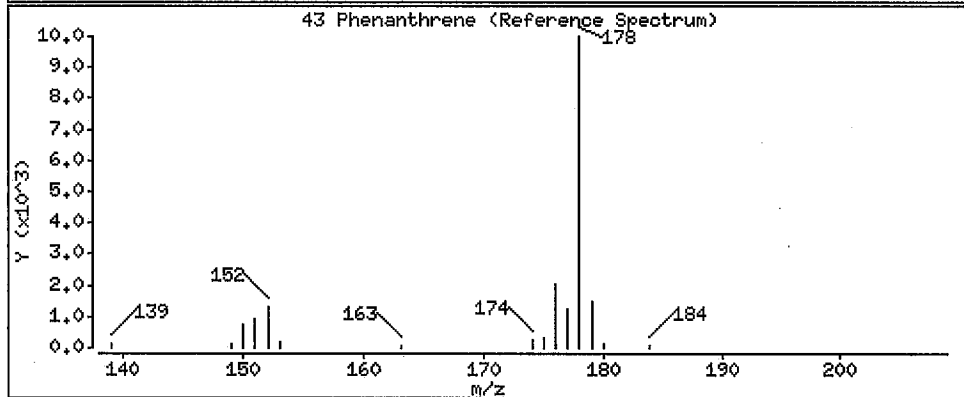
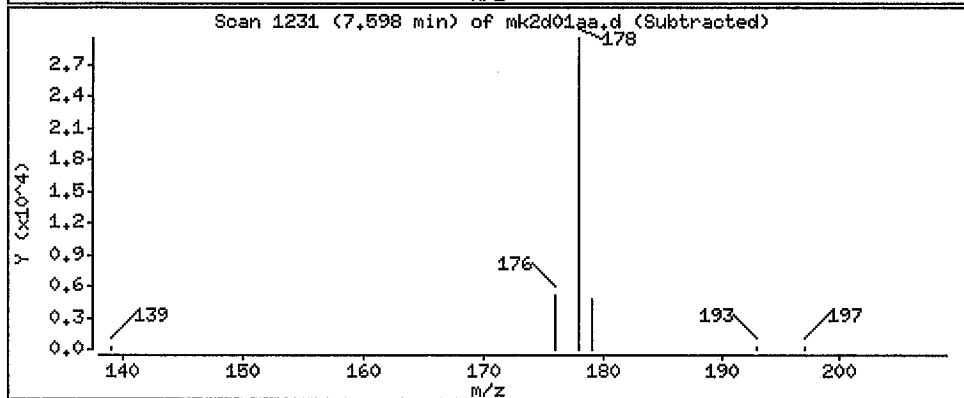
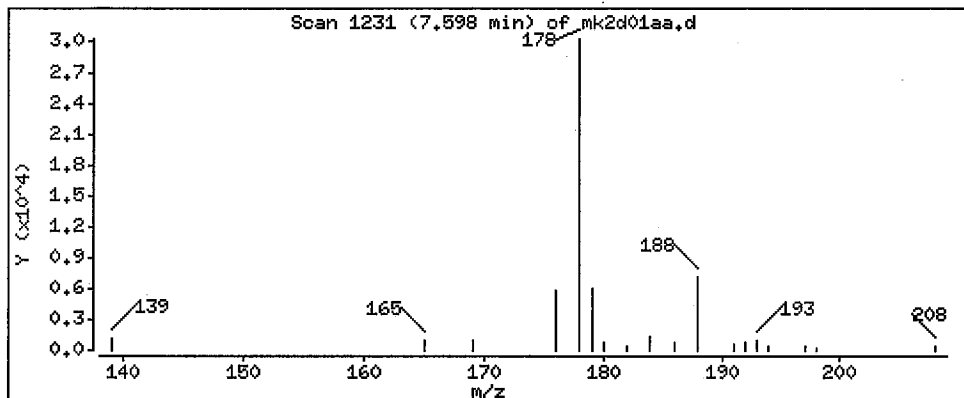
Operator: 11211

Column phase: Varian: 5MS

Column diameter: 0.25

43 Phenanthrene

Concentration: 22.5 ng/sample



Data File: /var/chem/gcms/mp.i/P072911.b/mk2d01aa.d

Date : 29-JUL-2011 11:48

Client ID: INTRA-LAB BLANK

Instrument: mp.i

Sample Info: ,,3,,BLANK

Purge Volume: 1.0

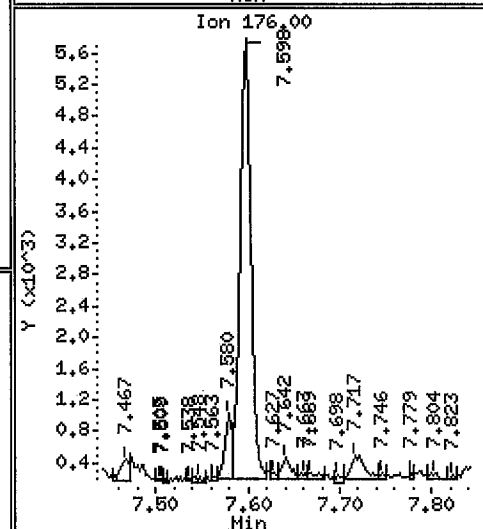
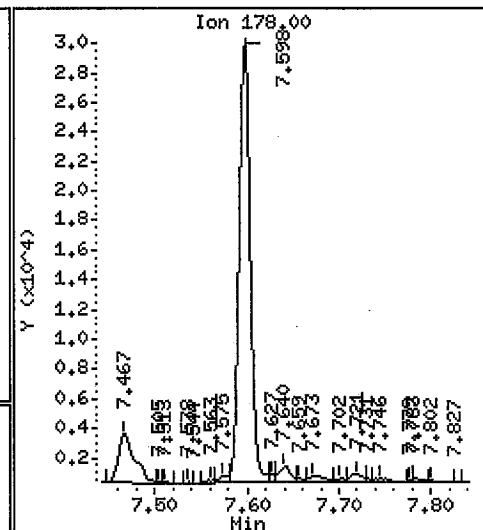
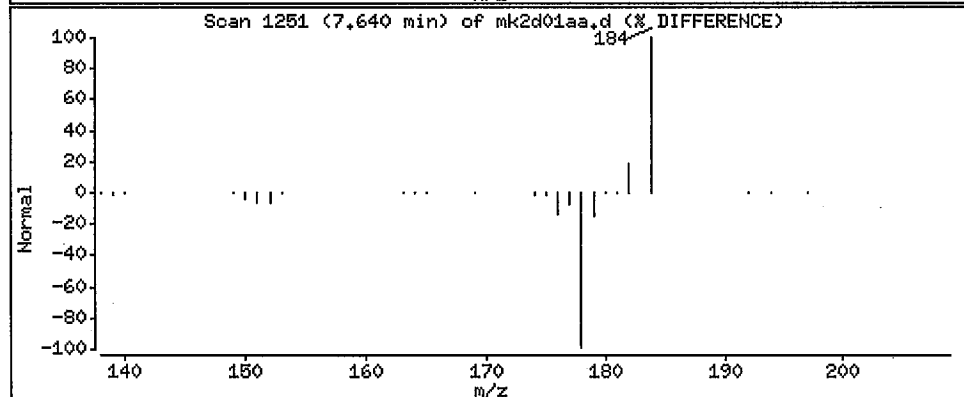
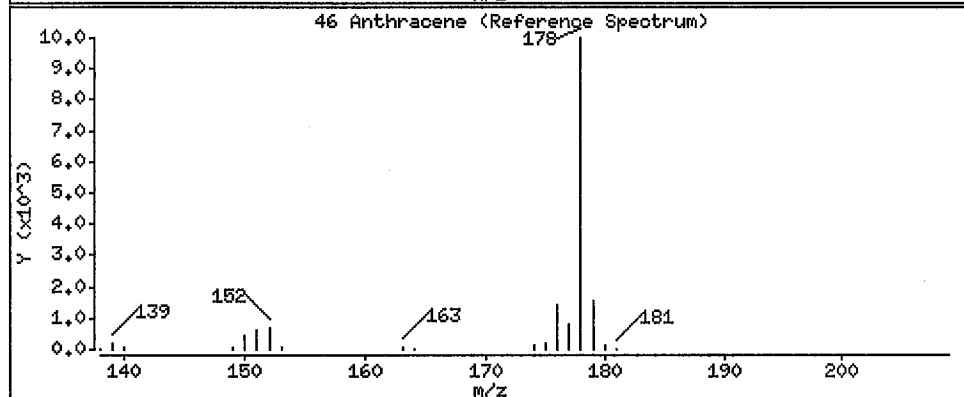
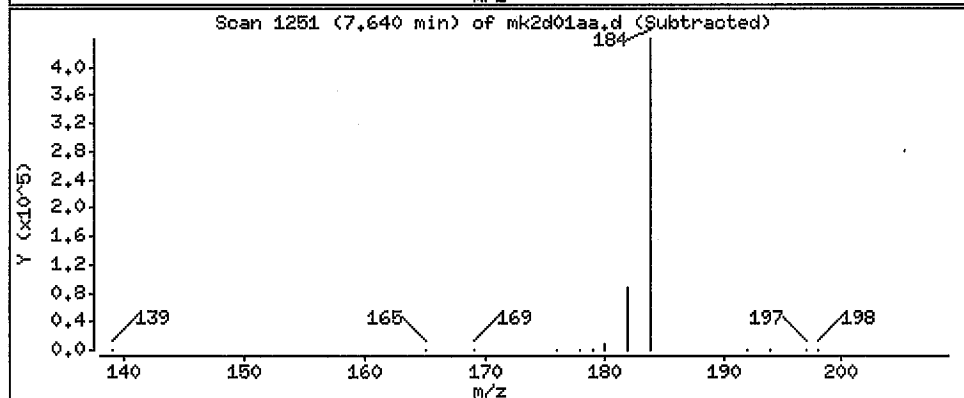
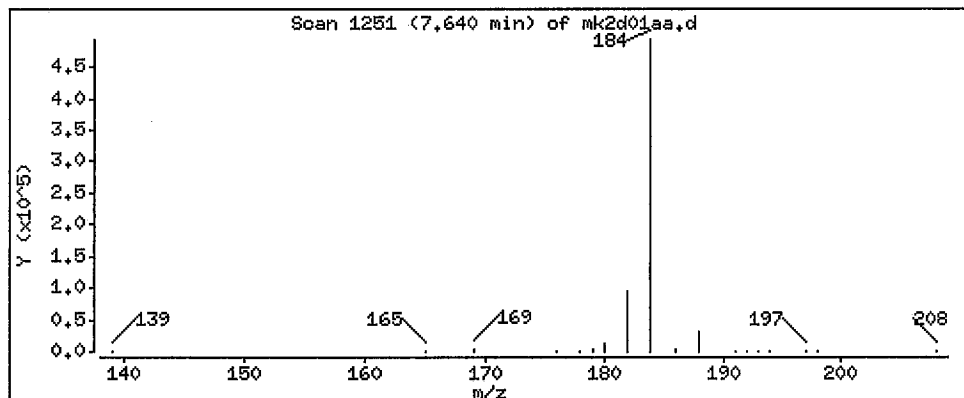
Operator: 11211

Column phase: Varian: 5MS

Column diameter: 0.25

46 Anthracene

Concentration: 0.957 ng/sample



Data File: /var/chem/gcms/mp.i/P072911.b/mk2d01aa.d

Date : 29-JUL-2011 11:48

Client ID: INTRA-LAB BLANK

Instrument: mp.i

Sample Info: ,,3,,BLANK

Purge Volume: 1.0

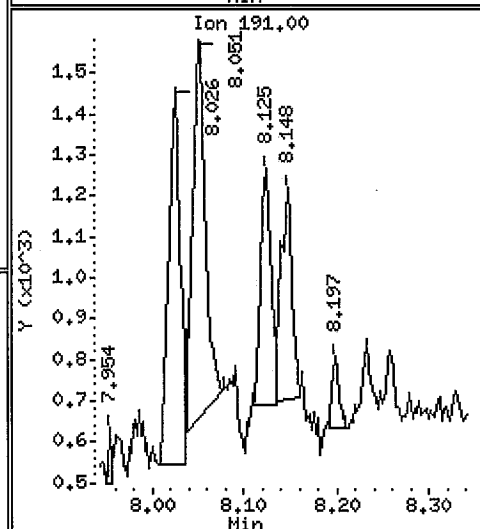
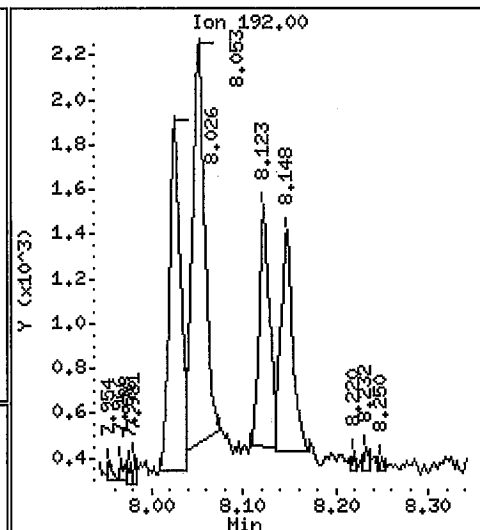
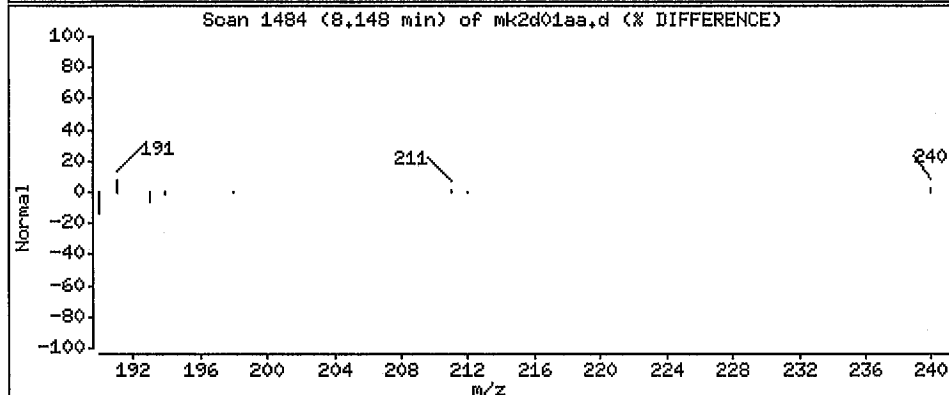
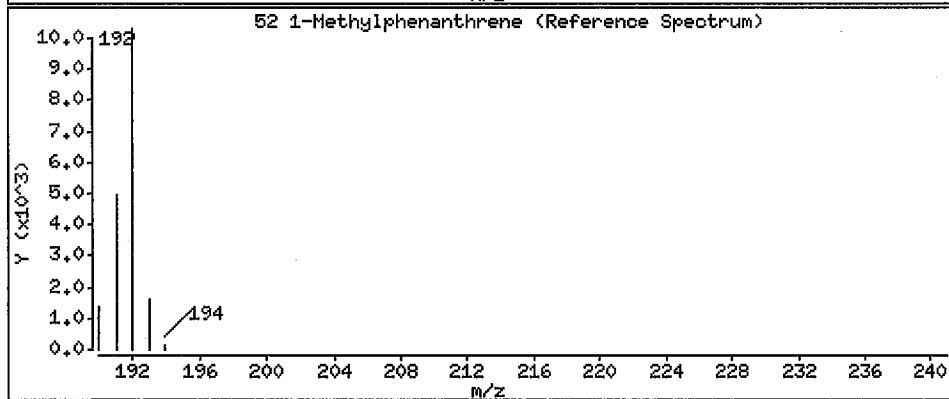
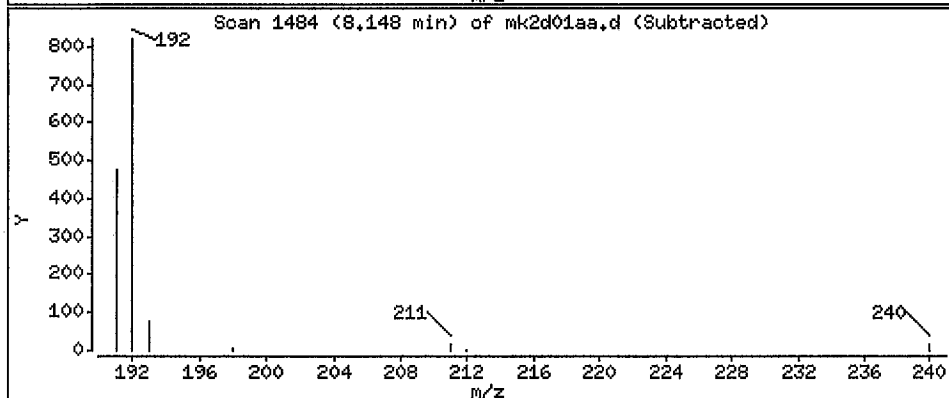
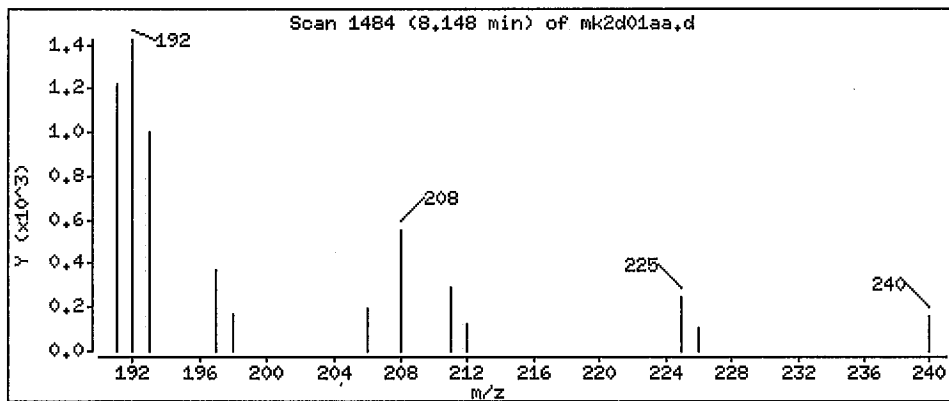
Operator: 11211

Column phase: Variant: 5MS

Column diameter: 0.25

52 1-Methylphenanthrene

Concentration: 1.45 ng/sample



Data File: /var/chem/gcms/mp.i/P072911.b/mk2d01aa.d

Date : 29-JUL-2011 11:48

Client ID: INTRA-LAB BLANK

Instrument: mp.i

Sample Info: ,,3,,BLANK

Purge Volume: 1.0

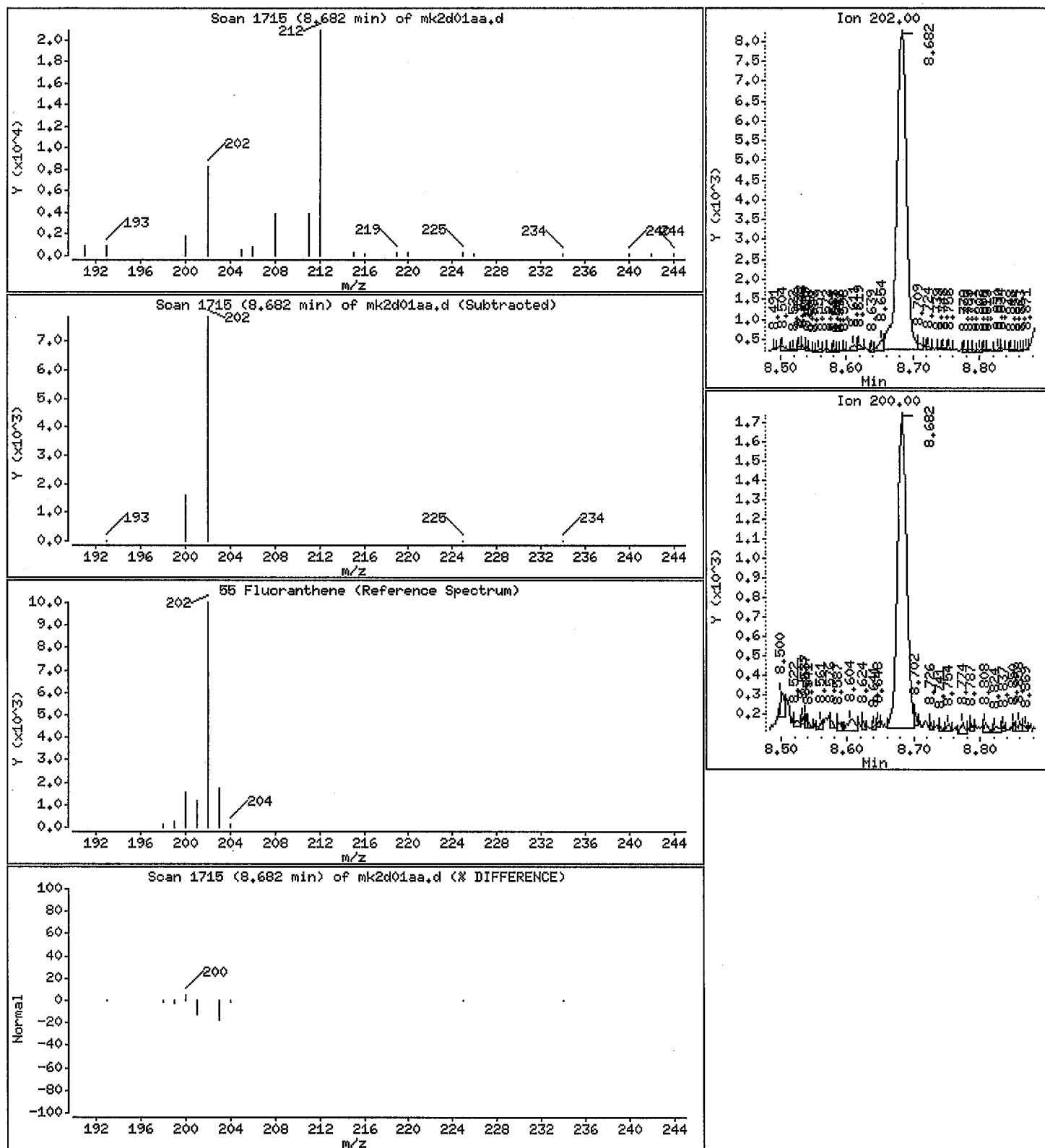
Operator: 11211

Column phase: Variant 5MS

Column diameter: 0.25

55 Fluoranthene

Concentration: 6.07 ng/sample



EM-BTRF-001373

Data File: /var/chem/gcms/mp.i/P072911.b/mk2d01aa.d

Date : 29-JUL-2011 11:48

Client ID: INTRA-LAB BLANK

Instrument: mp.i

Sample Info: ,,3,,BLANK

Purge Volume: 1.0

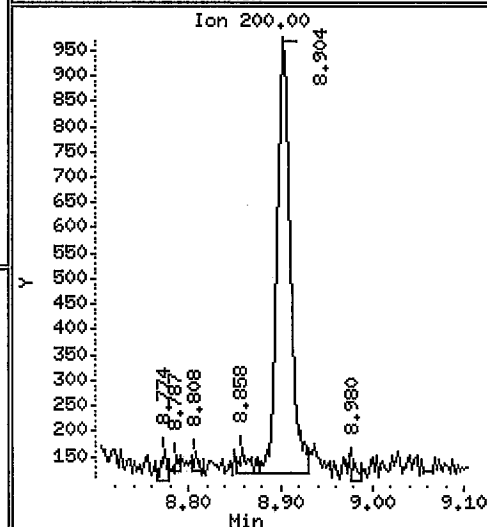
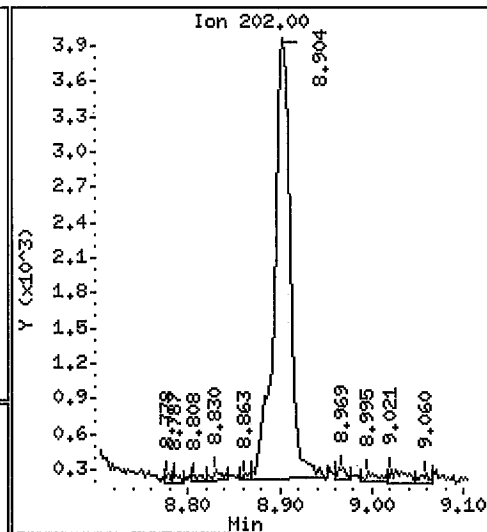
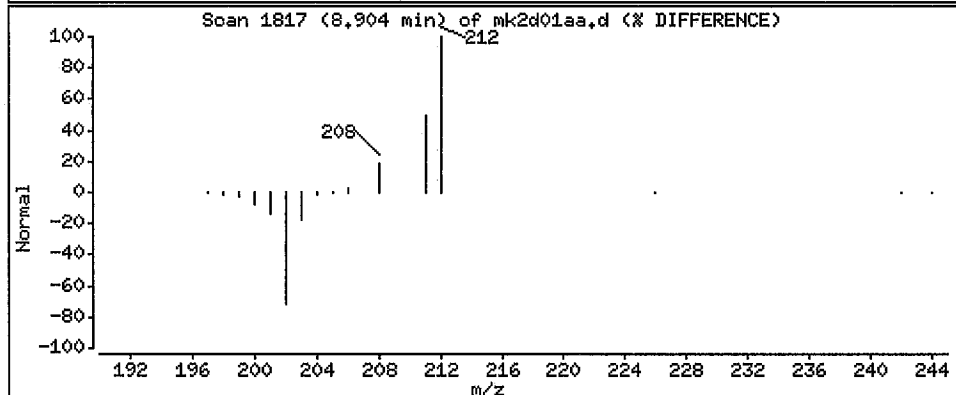
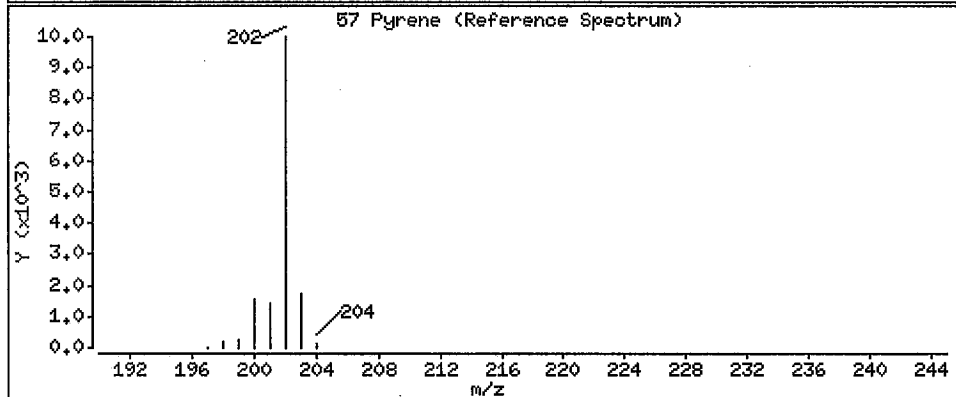
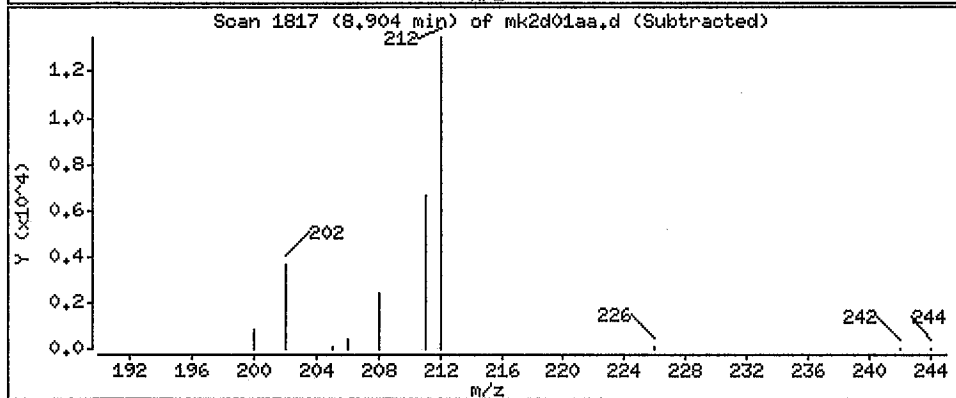
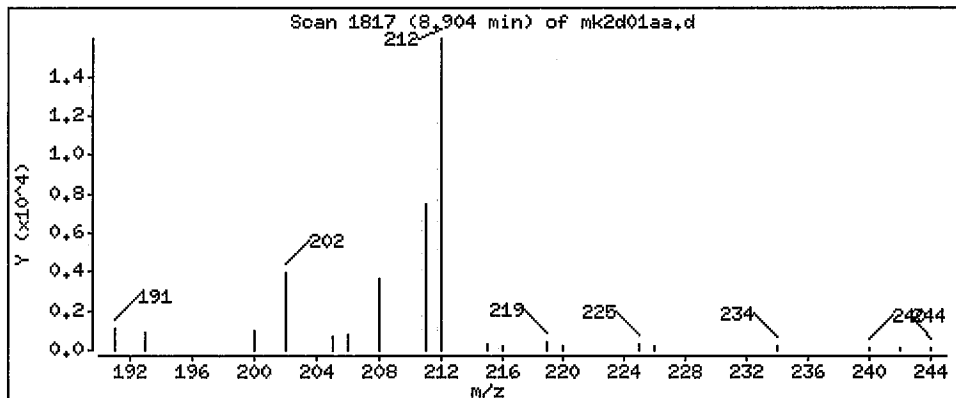
Operator: 11211

Column phase: Varian: 5MS

Column diameter: 0.25

57 Pyrene

Concentration: 3.20 ng/sample



EM-BTRF-001374

Data File: /var/chem/gcms/mp.i/P072911.b/mk2d01aa.d

Date : 29-JUL-2011 11:48

Client ID: INTRA-LAB BLANK

Instrument: mp.i

Sample Info: ,,3,,BLANK

Purge Volume: 1.0

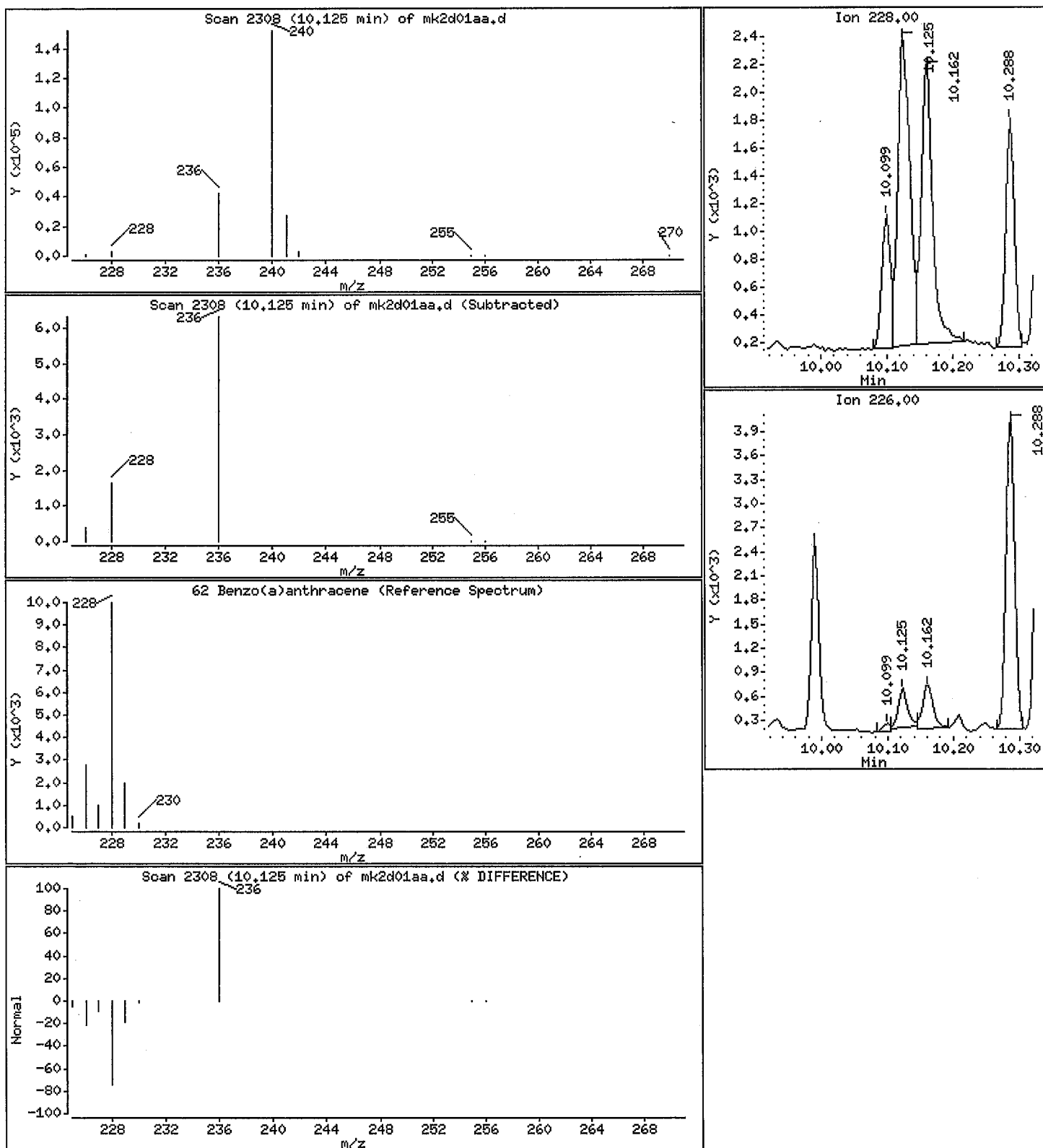
Operator: 60487

Column phase: Varian: 5MS

Column diameter: 0,25

62 Benzo(a)anthracene

Concentration: 1,27 ng/sample



EM-BTRF-001375

Data File: /var/chem/gcms/mp.i/P072911.b/mk2d01aa.d

Date : 29-JUL-2011 11:48

Client ID: INTRA-LAB BLANK

Instrument: mp.i

Sample Info: ,,3,,BLANK

Purge Volume: 1.0

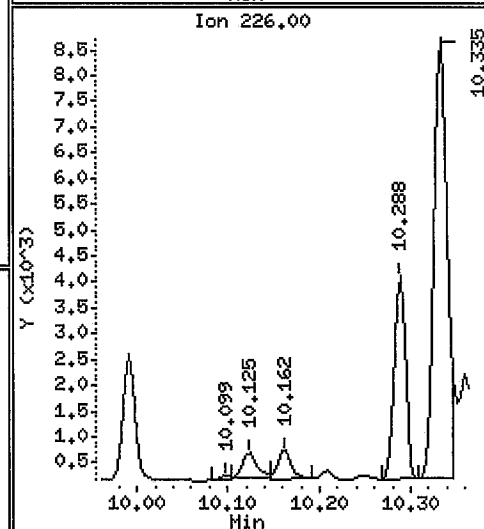
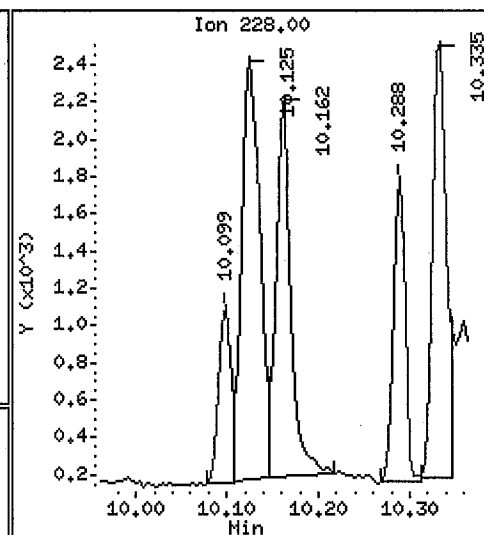
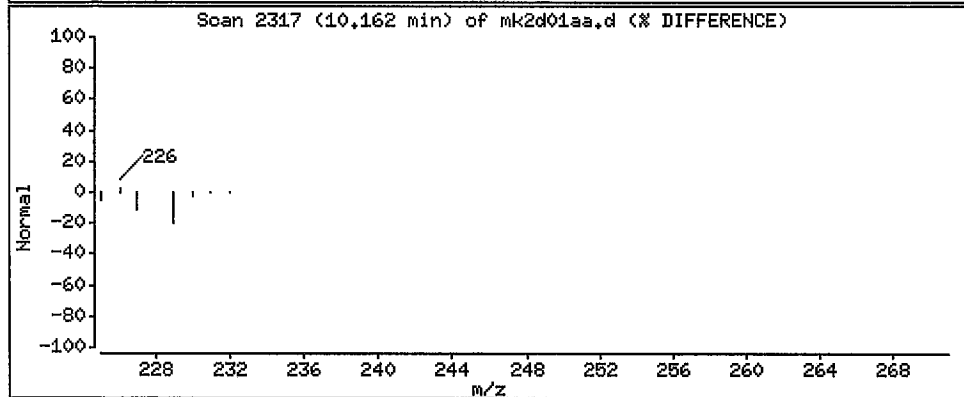
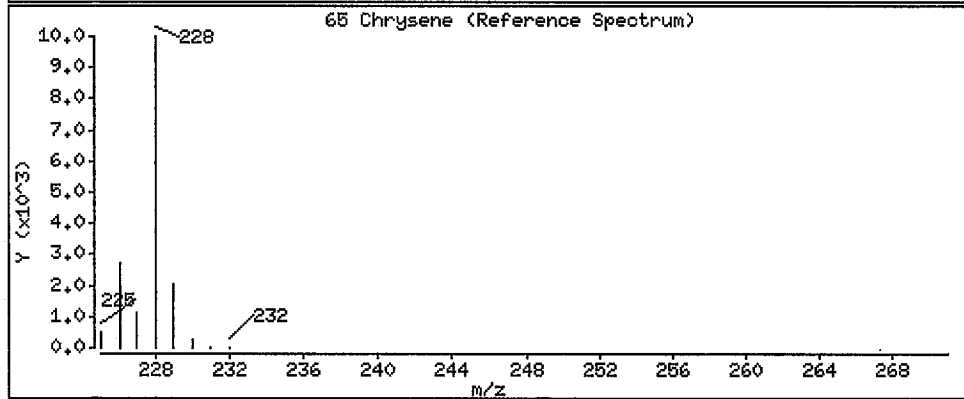
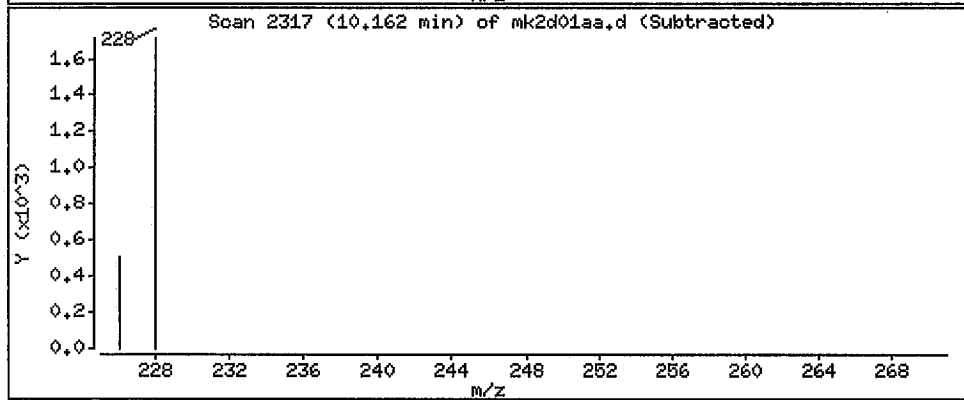
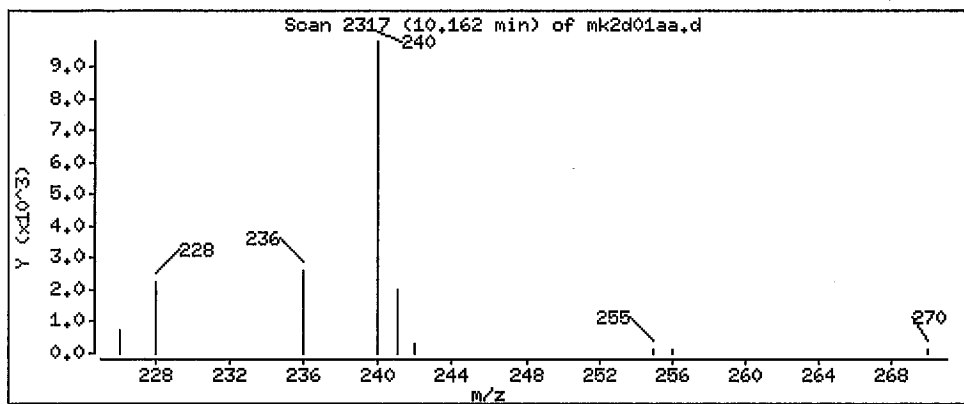
Operator: 11211

Column phase: Variant 5MS

Column diameter: 0,25

65 Chrysene

Concentration: 2,66 ng/sample



Data File: /var/chem/gcms/mp.i/P072911.b/mk2d01aa.d

Date : 29-JUL-2011 11:48

Client ID: INTRA-LAB BLANK

Instrument: mp.i

Sample Info: ,,3,,BLANK

Purge Volume: 1.0

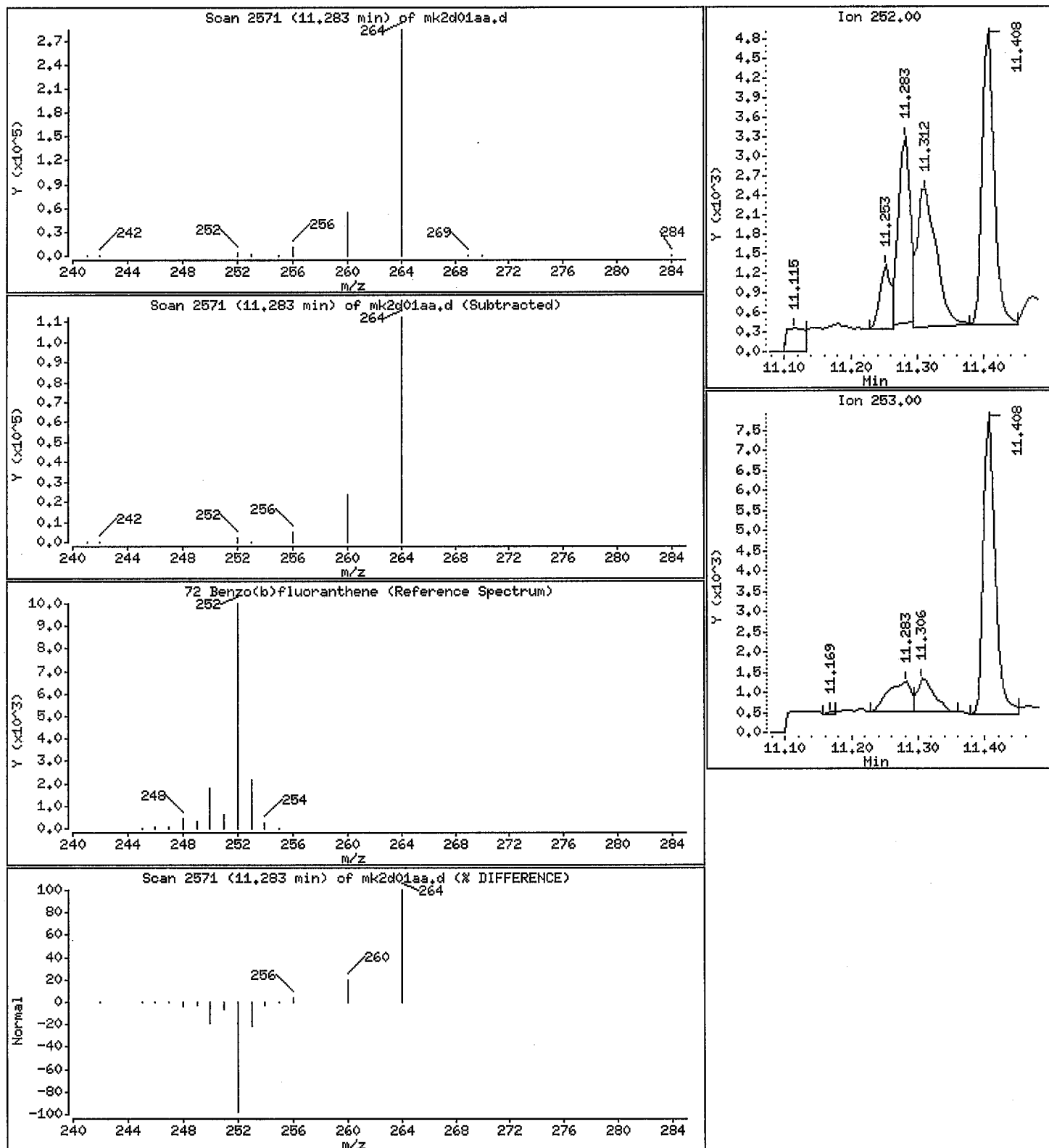
Operator: 11211

Column phase: Variant 5MS

Column diameter: 0.25

72 Benzo(b)fluoranthene

Concentration: 3.31 ng/sample



EM-BTRF-001377

Data File: /var/chem/gcms/mp.i/P072911.b/mk2d01aa.d

Date : 29-JUL-2011 11:48

Client ID: INTRA-LAB BLANK

Instrument: mp.i

Sample Info: ,,3,,BLANK

Purge Volume: 1.0

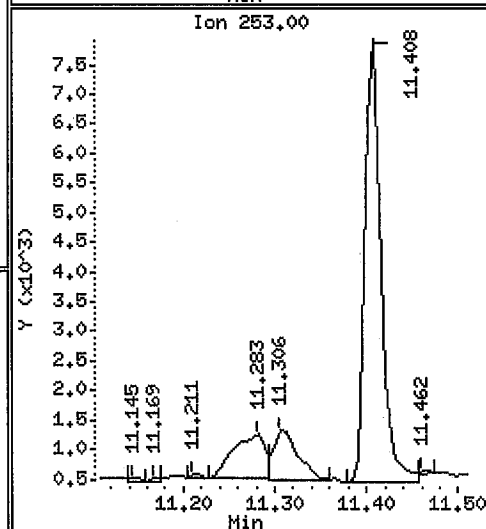
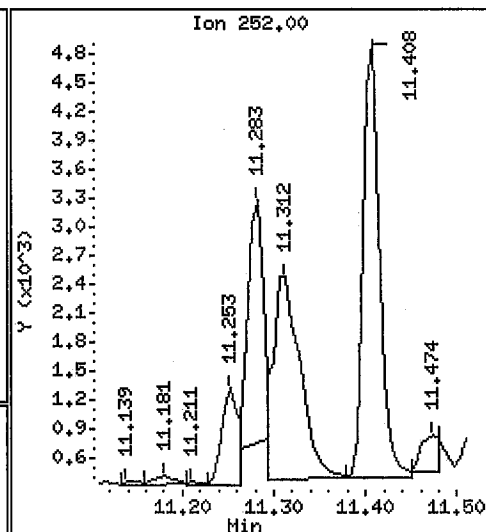
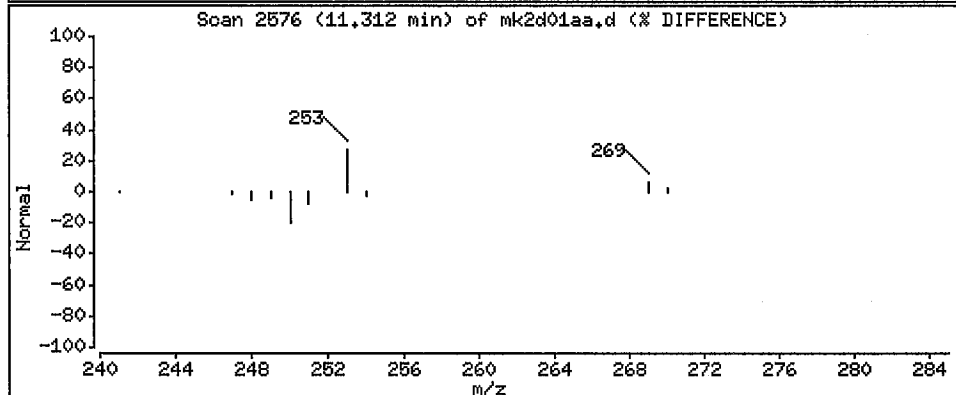
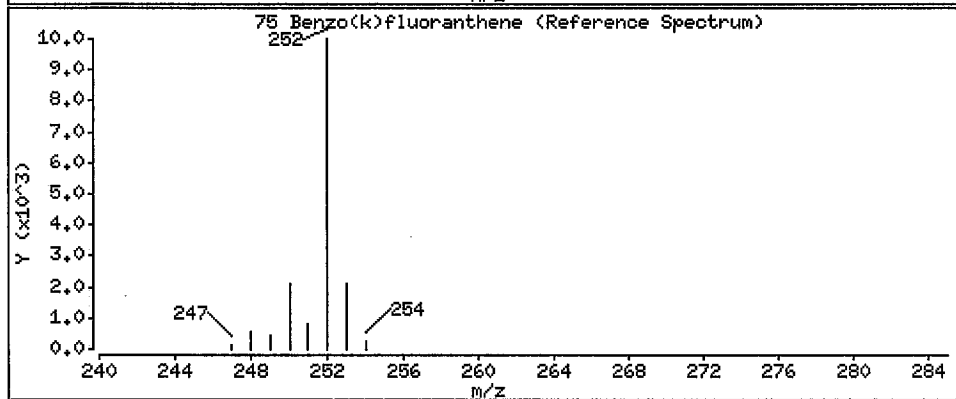
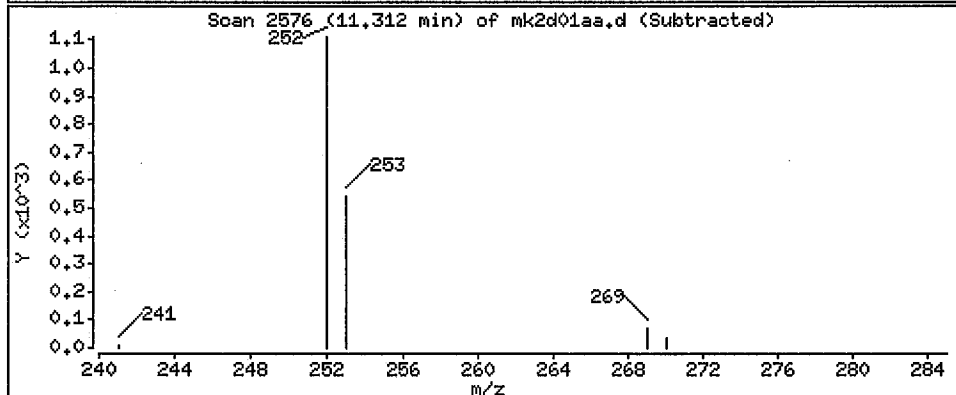
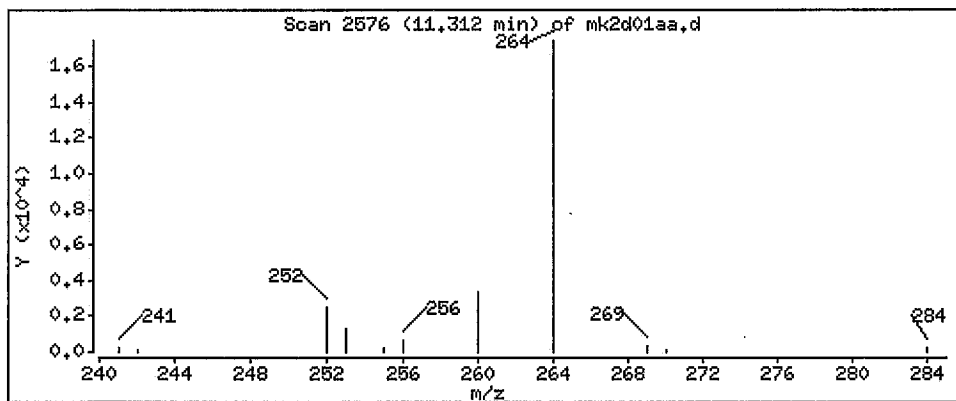
Operator: 11211

Column phase: Varian: 5MS

Column diameter: 0.25

75 Benzo(k)fluoranthene

Concentration: 4.75 ng/sample



EM-BTRF-001378

Data File: /var/chem/gcms/mp.i/P072911.b/mk2d01aa.d

Date : 29-JUL-2011 11:48

Client ID: INTRA-LAB BLANK

Instrument: mp.i

Sample Info: ,,3,,BLANK

Purge Volume: 1.0

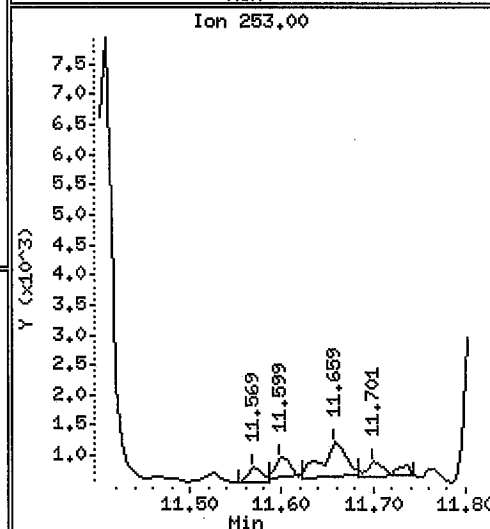
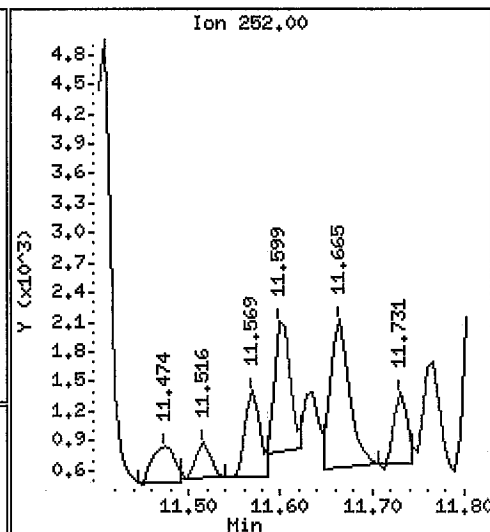
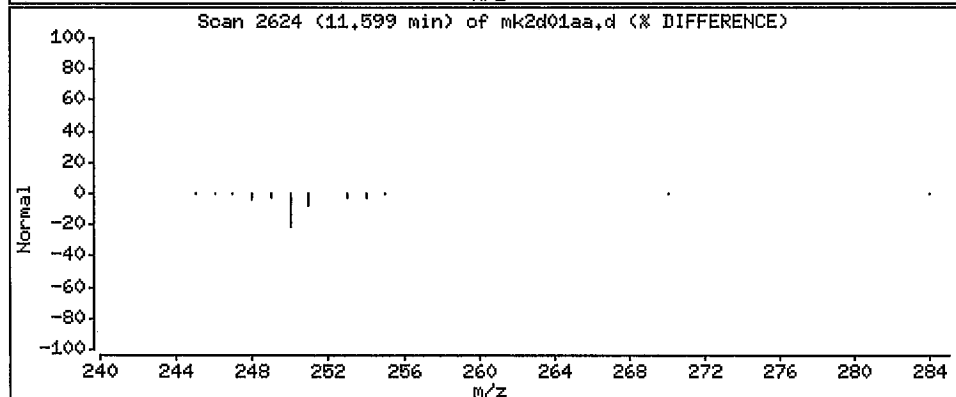
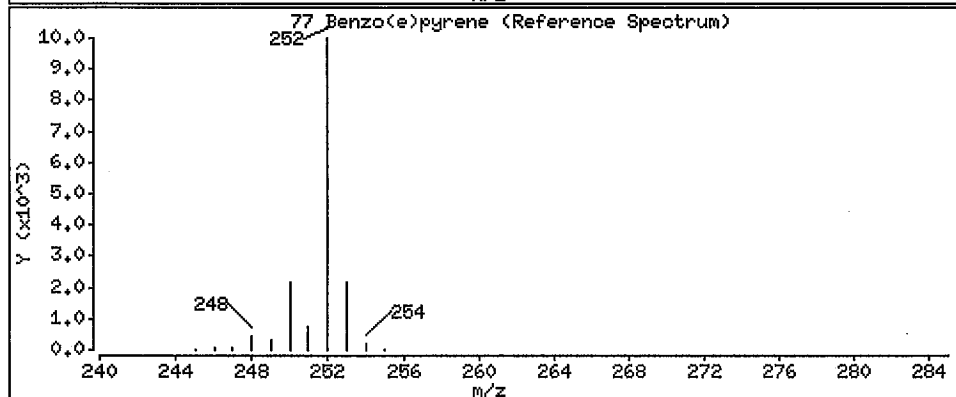
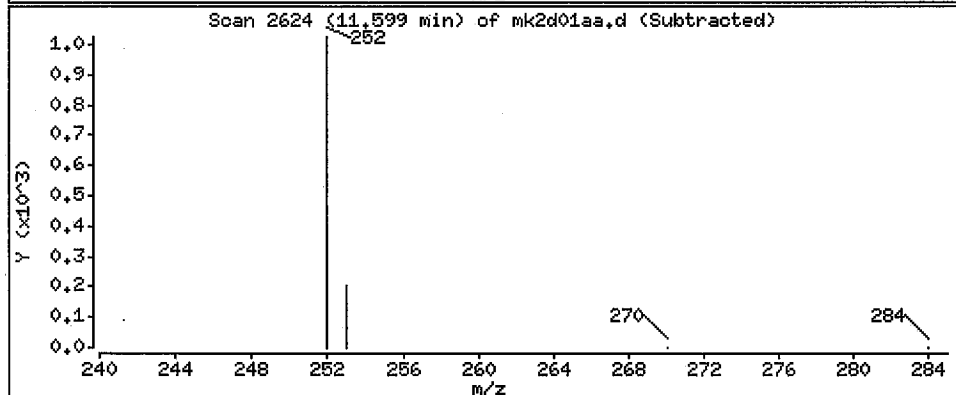
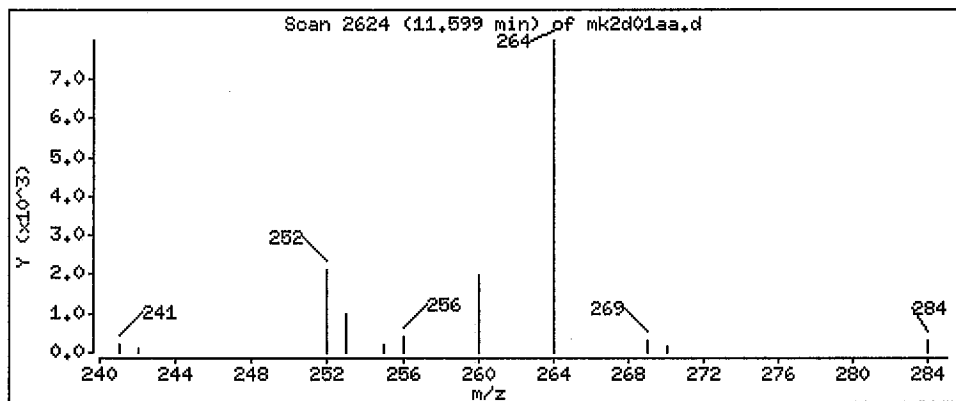
Operator: 11211

Column phase: Varian: 5MS

Column diameter: 0.25

77 Benzo(e)pyrene

Concentration: 1.50 ng/sample



Data File: /var/chem/gcms/mp.i/P072911.b/mk2d01aa.d

Date: 29-JUL-2011 11:48

Client ID: INTRA-LAB BLANK

Instrument: mp.i

Sample Info: ,,3,,BLANK

Purge Volume: 1.0

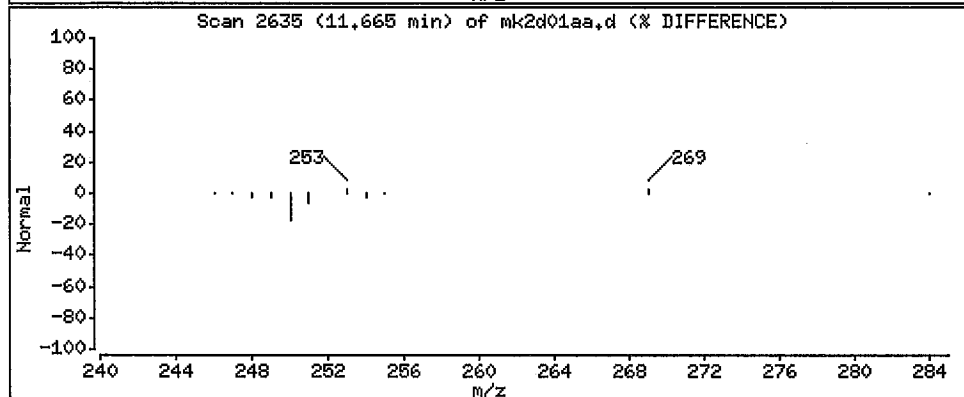
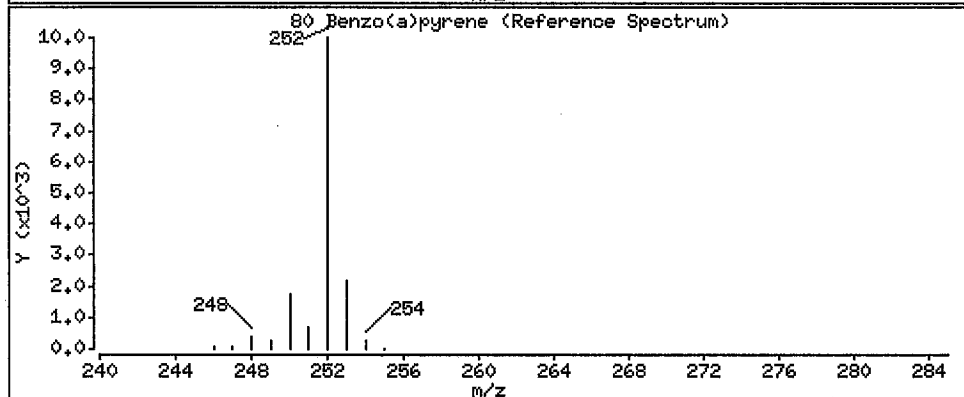
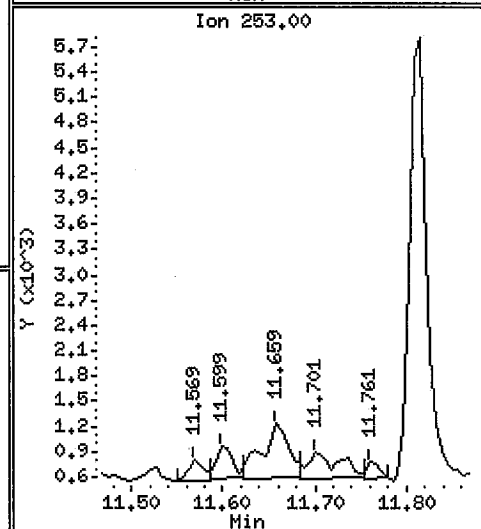
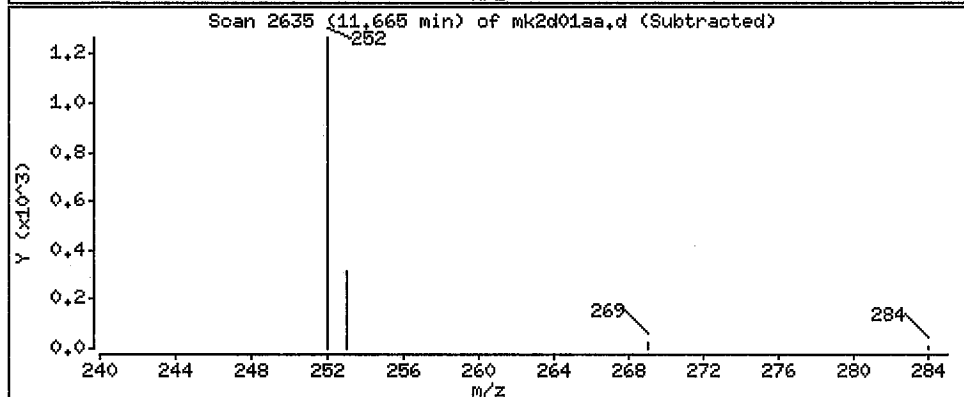
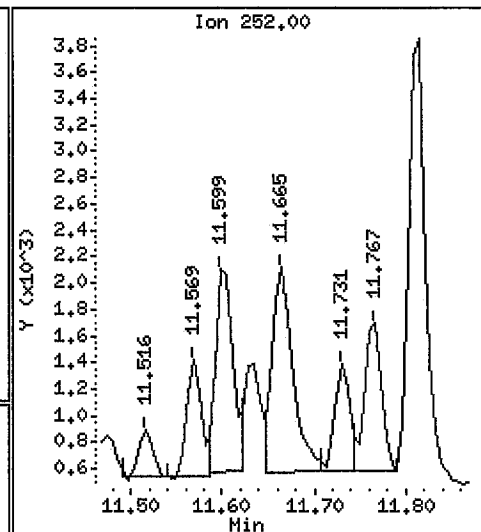
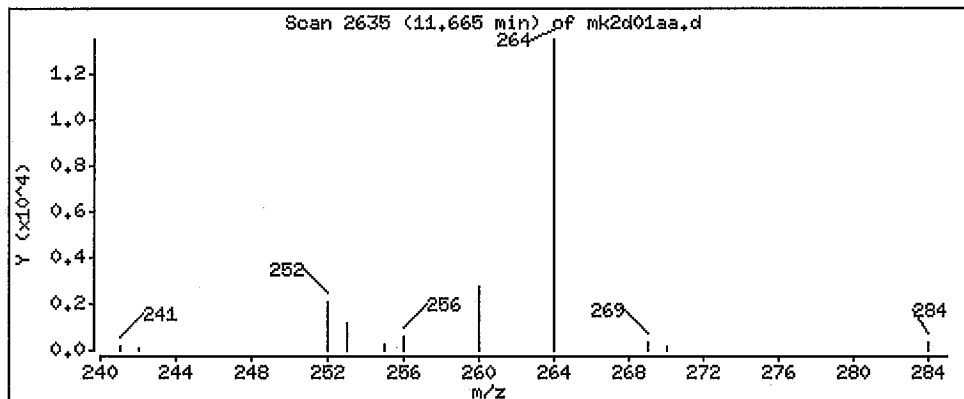
Operator: 11211

Column phase: Varian: 5MS

Column diameter: 0.25

80 Benzo(a)pyrene

Concentration: 2.84 ng/sample



EM-BTRF-001380

Data File: /var/chem/gcms/mp.i/P072911.b/mk2d01aa.d

Date : 29-JUL-2011 11:48

Client ID: INTRA-LAB BLANK

Instrument: mp.i

Sample Info: ,,3,,BLANK

Purge Volume: 1.0

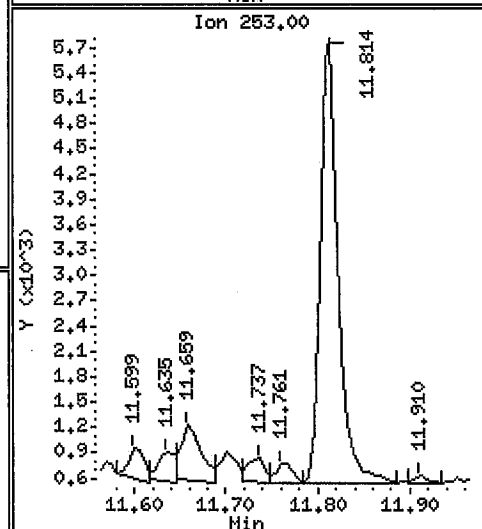
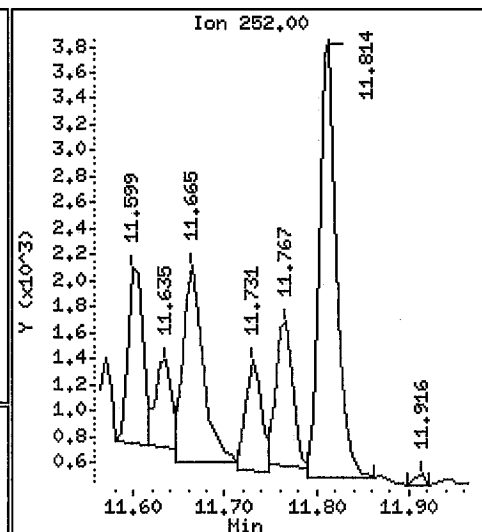
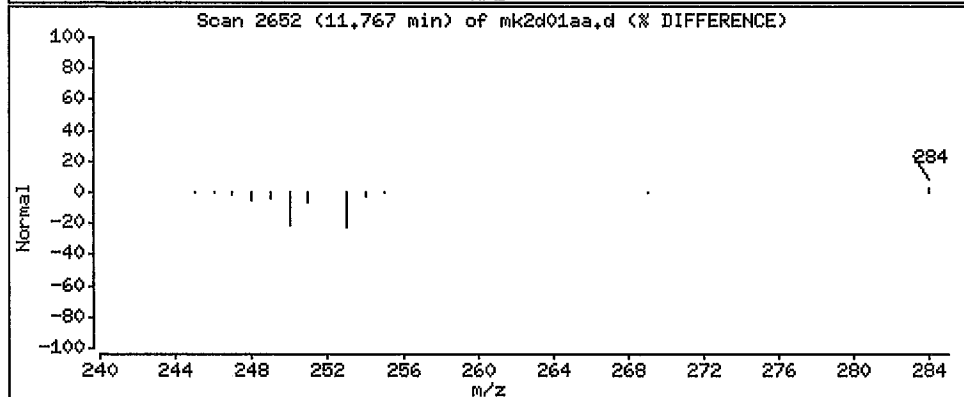
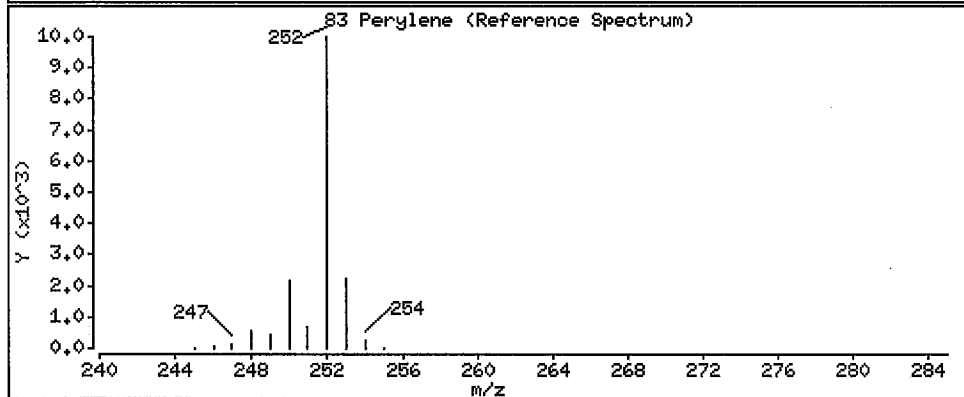
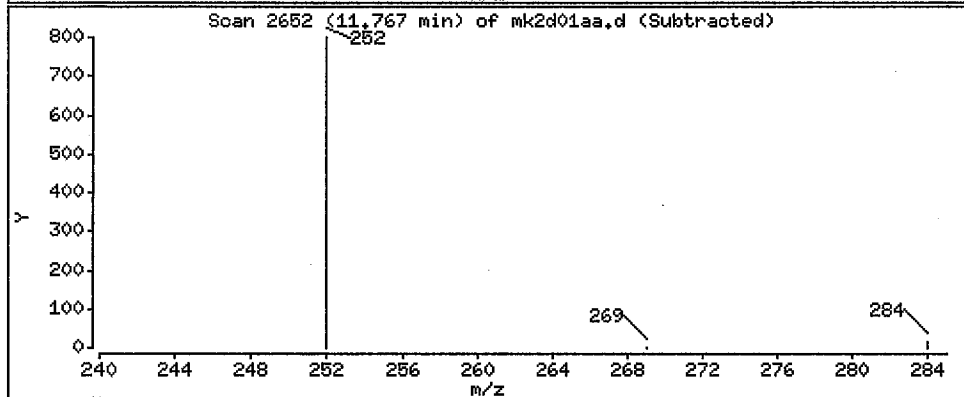
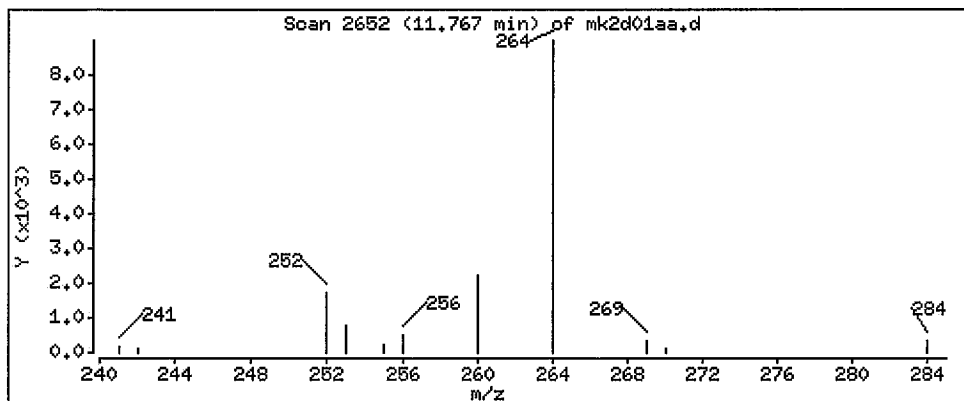
Operator: 11211

Column phase: Varian: 5MS

Column diameter: 0.25

83 Perylene

Concentration: 1.63 ng/sample



Data File: /var/chem/gcms/mp.i/P072911.b/mk2d01aa.d

Date : 29-JUL-2011 11:48

Client ID: INTRA-LAB BLANK

Instrument: mp.i

Sample Info: ,,3,,BLANK

Purge Volume: 1.0

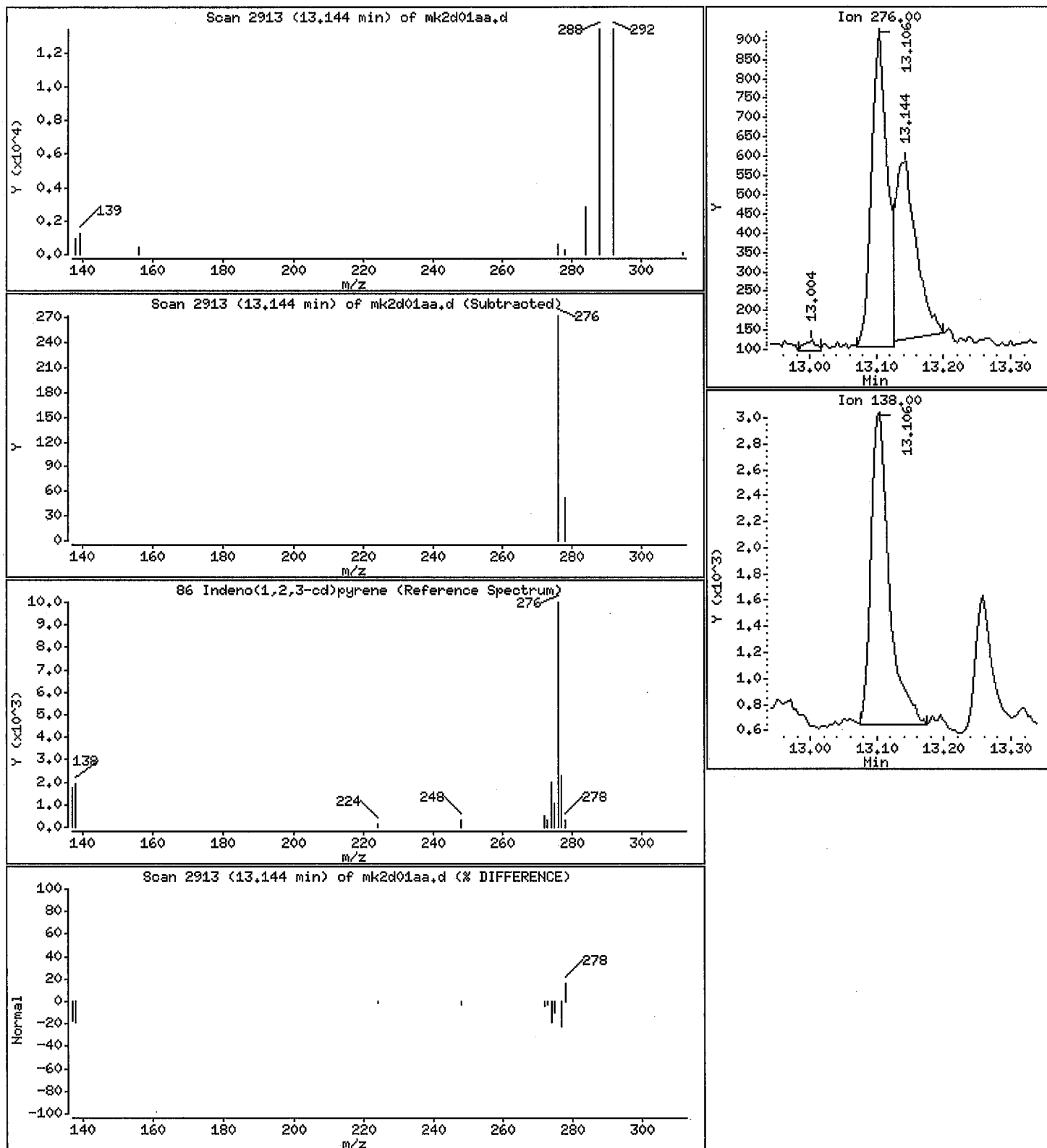
Operator: 11211

Column phase: Varian: 5MS

Column diameter: 0,25

86 Indeno(1,2,3-cd)pyrene

Concentration: 1.00 ng/sample



EM-BTRF-001382

Data File: /var/chem/gcms/mp.i/P072911.b/mk2d01aa.d

Date : 29-JUL-2011 11:48

Client ID: INTRA-LAB BLANK

Instrument: mp.i

Sample Info: ,,3,,BLANK

Purge Volume: 1.0

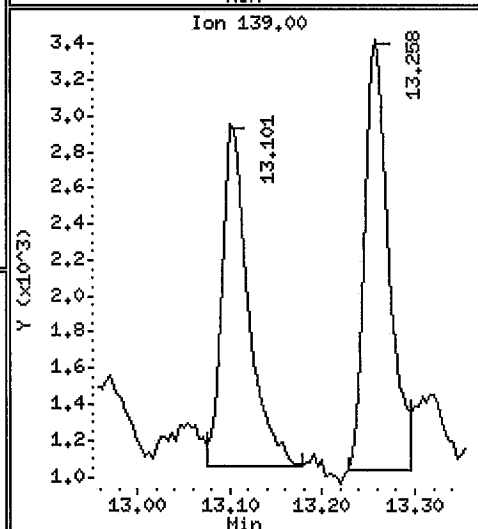
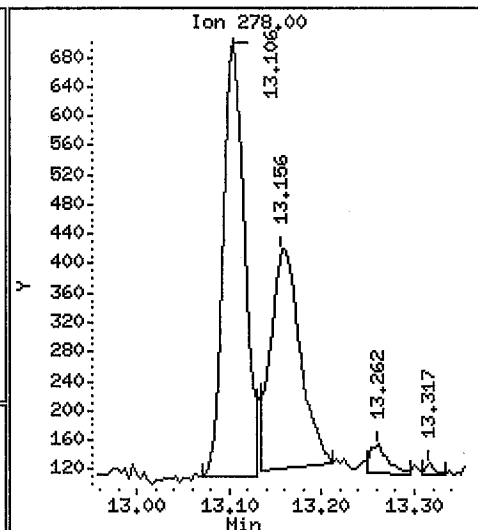
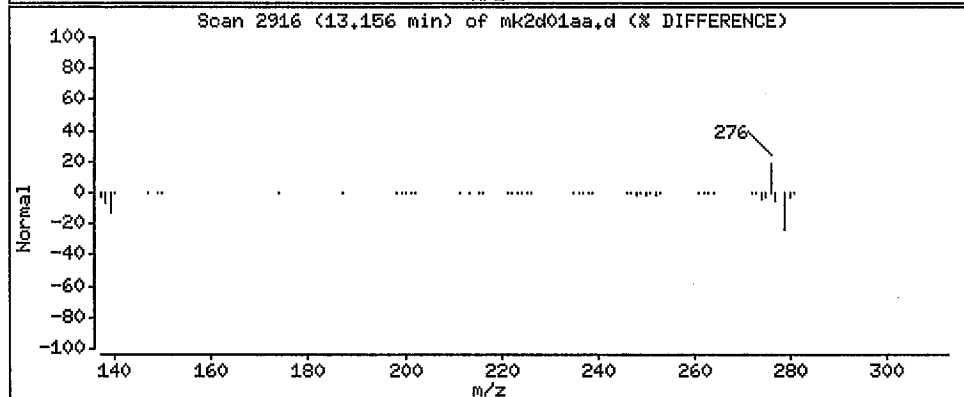
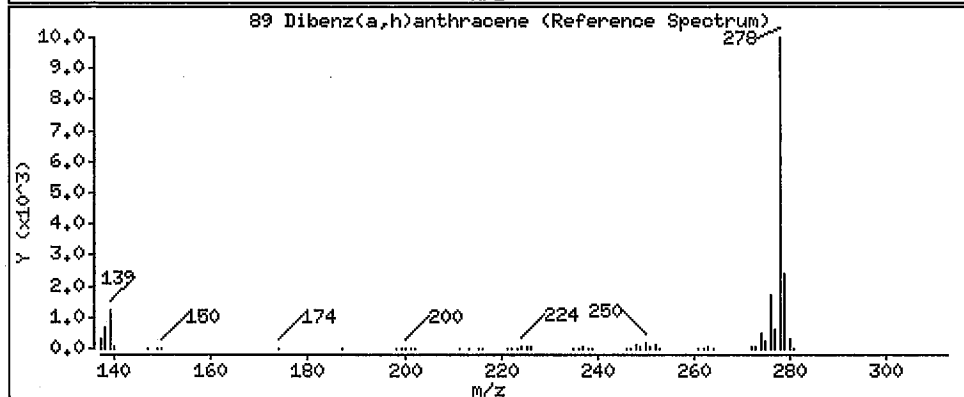
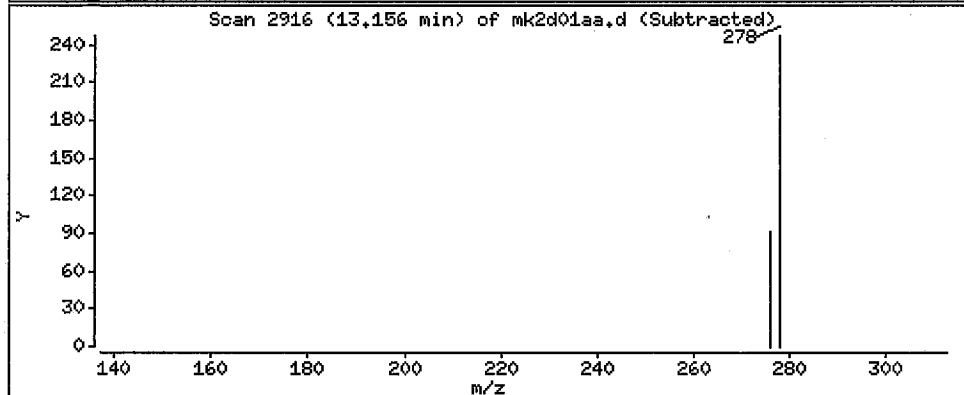
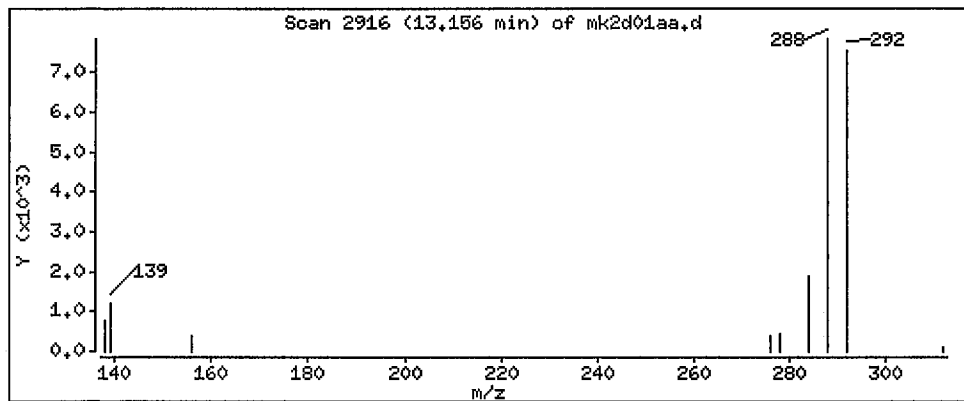
Operator: 11211

Column phase: Varian: 5MS

Column diameter: 0.25

89 Dibenz(a,h)anthracene

Concentration: 0.903 ng/sample



Data File: /var/chem/gcms/mp.i/P072911.b/mk2d01aa.d

Date : 29-JUL-2011 11:48

Client ID: INTRA-LAB BLANK

Instrument: mp.i

Sample Info: ,,3,,BLANK

Purge Volume: 1.0

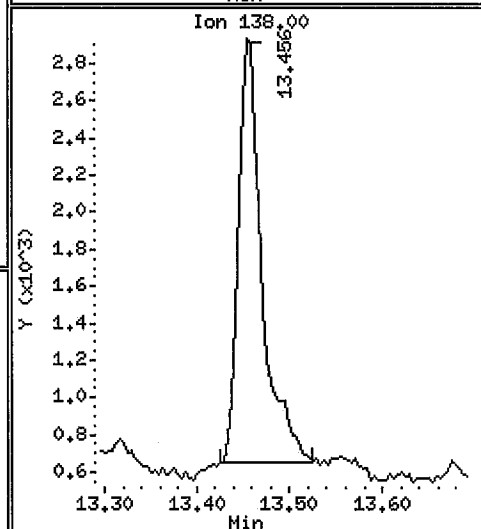
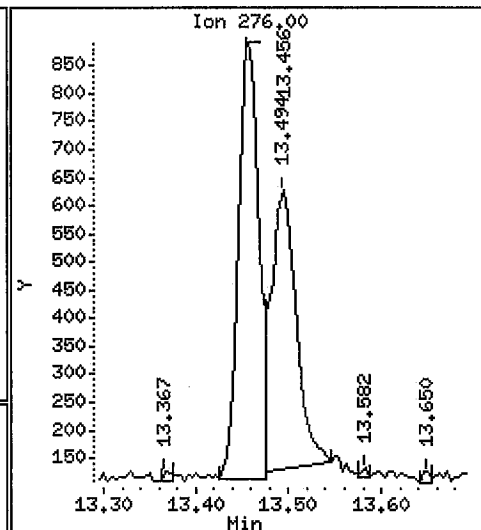
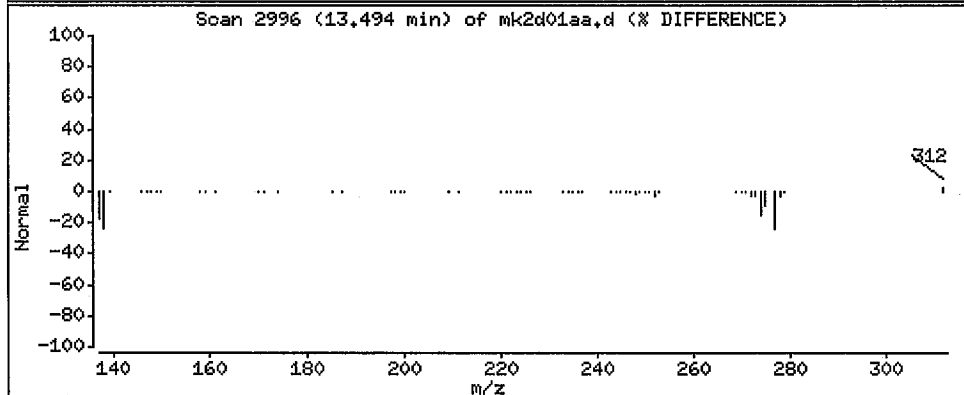
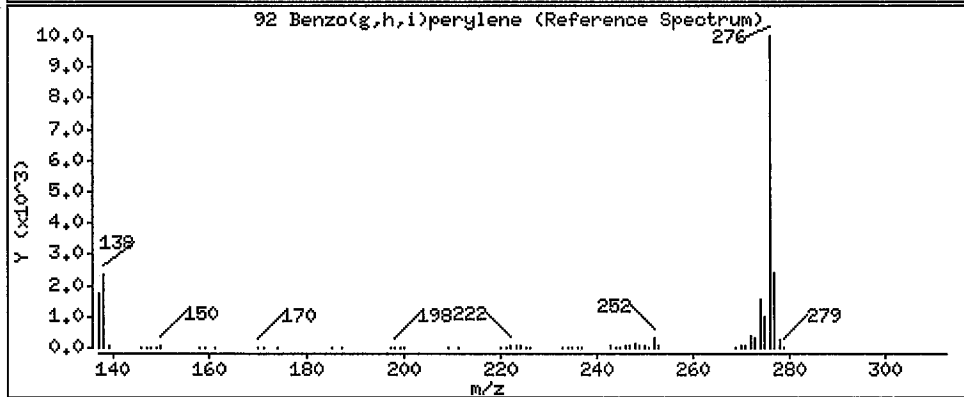
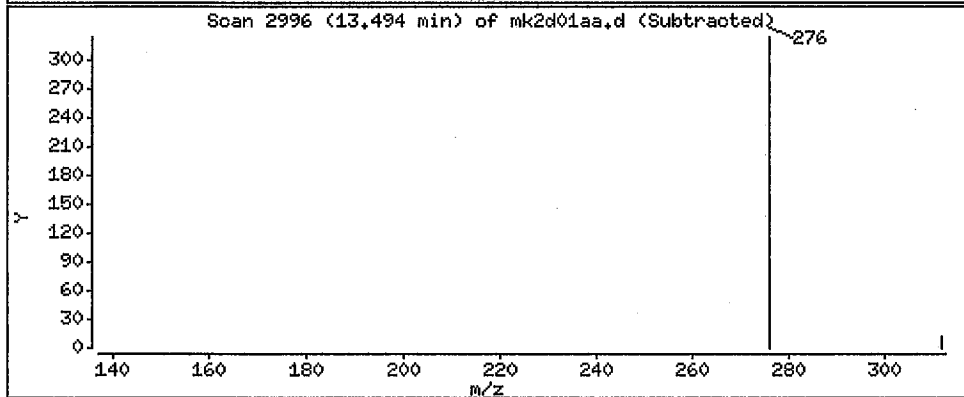
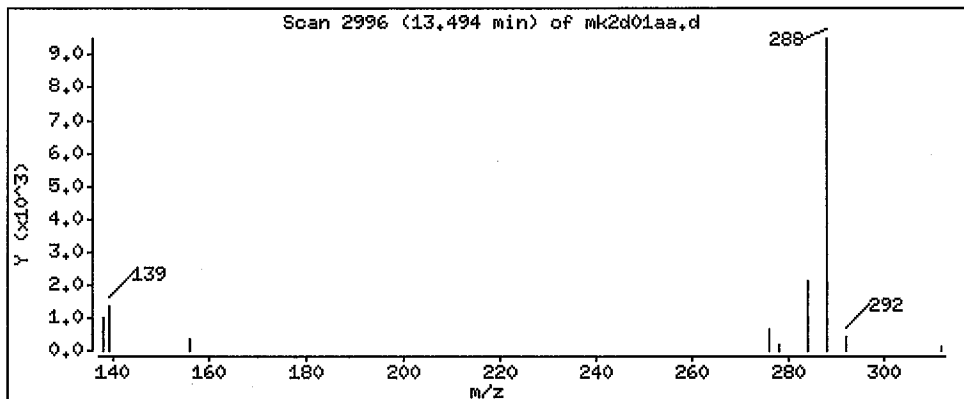
Operator: 11211

Column phase: Varian: 5MS

Column diameter: 0.25

92 Benzo(g,h,i)perylene

Concentration: 1.17 ng/sample



LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: H1G190403 Work Order #...: MK2D01AC-LCS Matrix.....: AIR
 LCS Lot-Sample#: H1G200000-079 MK2D01AD-LCSD
 Prep Date: 07/20/11 Analysis Date...: 07/29/11
 Prep Batch #...: 1201079
 Dilution Factor: 1 Method.....: KNOX ID-0016

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS
Acenaphthene	250	226	ng/sample	90	(60 - 140)		
	250	221	ng/sample	88	(60 - 140)	2.2	(0-25)
Acenaphthylene	250	227	ng/sample	91	(60 - 140)		
	250	227	ng/sample	91	(60 - 140)	0.0	(0-25)
Anthracene	250	215	ng/sample	86	(60 - 140)		
	250	211	ng/sample	84	(60 - 140)	1.9	(0-25)
Benzo(a)anthracene	250	187	ng/sample	75	(60 - 140)		
	250	187	ng/sample	75	(60 - 140)	0.0	(0-25)
Benzo(b)fluoranthene	250	198	ng/sample	79	(60 - 140)		
	250	197	ng/sample	79	(60 - 140)	0.50	(0-25)
Benzo(k)fluoranthene	250	265	ng/sample	106	(60 - 140)		
	250	264	ng/sample	106	(60 - 140)	0.37	(0-25)
Benzo(ghi)perylene	250	239	ng/sample	96	(60 - 140)		
	250	239	ng/sample	96	(60 - 140)	0.0	(0-25)
Benzo(a)pyrene	250	234	ng/sample	94	(60 - 140)		
	250	234	ng/sample	94	(60 - 140)	0.0	(0-25)
Benzo(e)pyrene	250	202	ng/sample	81	(60 - 140)		
	250	202	ng/sample	81	(60 - 140)	0.0	(0-25)
Chrysene	250	261	ng/sample	104	(60 - 140)		
	250	263	ng/sample	105	(60 - 140)	0.76	(0-25)
Dibenz(a,h)anthracene	250	246	ng/sample	98	(60 - 140)		
	250	240	ng/sample	96	(60 - 140)	2.5	(0-25)
Fluoranthene	250	232	ng/sample	93	(60 - 140)		
	250	232	ng/sample	93	(60 - 140)	0.0	(0-25)
Fluorene	250	247	ng/sample	99	(60 - 140)		
	250	248	ng/sample	99	(60 - 140)	0.40	(0-25)
Indeno(1,2,3-cd)pyrene	250	228	ng/sample	91	(60 - 140)		
	250	227	ng/sample	91	(60 - 140)	0.44	(0-25)
2-Methylnaphthalene	250	261	ng/sample	104	(60 - 140)		
	250	258	ng/sample	103	(60 - 140)	1.2	(0-25)
Naphthalene	2000	2180	ng/sample	109	(60 - 140)		
	2000	2180	ng/sample	109	(60 - 140)	0.0	(0-25)
Perylene	250	226	ng/sample	90	(60 - 140)		
	250	227	ng/sample	91	(60 - 140)	0.44	(0-25)
Phenanthrene	250	262	ng/sample	105	(60 - 140)		
	250	258	ng/sample	103	(60 - 140)	1.5	(0-25)
Pyrene	250	226	ng/sample	90	(60 - 140)		
	250	225	ng/sample	90	(60 - 140)	0.44	(0-25)

INTERNAL STANDARD	PERCENT RECOVERY	RECOVERY LIMITS
Anthracene-d10	96	(60 - 140)
	100	(60 - 140)
Naphthalene-d8	91	(60 - 140)
	92	(60 - 140)
2-Methylnaphthalene-d10	96	(60 - 140)
	97	(60 - 140)
1-Methylnaphthalene-d10	93	(60 - 140)

(Continued on next Page)

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: H1G190403 Work Order #...: MK2D01AC-LCS Matrix.....: AIR
 LCS Lot-Sample#: H1G200000-079 MK2D01AD-LCSD

<u>INTERNAL STANDARD</u>	PERCENT	RECOVERY
	<u>RECOVERY</u>	<u>LIMITS</u>
	95	(60 - 140)
Acenaphthylene-d8	111	(60 - 140)
	114	(60 - 140)
Phenanthrene-d10	82	(60 - 140)
	84	(60 - 140)
2,6-Dimethylnaphthalene-d12	97	(60 - 140)
	99	(60 - 140)
Fluoranthene-d10	101	(60 - 140)
	102	(60 - 140)
Benzo(a)anthracene-d12	147 *	(60 - 140)
	150 *	(60 - 140)
Chrysene-d12	88	(60 - 140)
	90	(60 - 140)
Benzo(b)fluoranthene-d12	117	(60 - 140)
	120	(60 - 140)
Benzo(k)fluoranthene-d12	86	(60 - 140)
	88	(60 - 140)
Benzo(a)pyrene-d12	111	(60 - 140)
	114	(60 - 140)
Perylene-d12	101	(60 - 140)
	103	(60 - 140)
Indeno(1,2,3-cd)pyrene-d12	105	(60 - 140)
	109	(60 - 140)
Dibenz(ah)anthracene-d14	100	(60 - 140)
	107	(60 - 140)
Benzo(ghi)perylene-d12	97	(60 - 140)
	101	(60 - 140)

Note(s):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

* Surrogate recovery is outside stated control limits.

Data File: /var/chem/gcms/mp.i/P072911.b/mk2d01ac.d
 Report Date: 04-Aug-2011 19:01

TestAmerica Knoxville

SEMIVOLATILE QUANTITATION REPORT

Data file : /var/chem/gcms/mp.i/P072911.b/mk2d01ac.d
 Lab Smp Id: MK2D01AC Client Smp ID: INTRA-LAB CHECK
 Inj Date : 29-JUL-2011 12:12
 Operator : 11211 Inst ID: mp.i
 Smp Info : ,,3,,LCS
 Misc Info : P072911,SIMPAH3
 Comment :
 Method : /var/chem/gcms/mp.i/P072911.b/SIMPAH3.m
 Meth Date : 04-Aug-2011 19:00 cochranj Quant Type: ISTD
 Cal Date : 26-JUL-2011 20:15 Cal File: pg26ic07.d
 Als bottle: 4 QC Sample: METHOD SPIKE
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: pah.sub
 Target Version: 3.50
 Processing Host: qmidhp01

Concentration Formula: Amt * DF * Sf*Vt/Vo * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Sf	1.00000 ✓	Split factor
Vt	500.00000	Volume of final extract (uL)
Vo	1.00000	Volume of sample extracted (sample)

Cpnd Variable

Local Compound Variable

Compounds	QUANT SIG	MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN (ug/ml)	FINAL (ng/sample)
* 1 Naphthalene-d8	=====	136	4.865	4.865	(1.000)	675598	0.50000	0.500
\$ 2 Naphthalene-d8 (SS)	=====	136	4.865	4.865	(0.770)	675598	0.45591	228
3 Naphthalene	=====	128	4.880	4.880	(1.003)	5005130	4.36536	2180
\$ 222 13C6-Naphthalene	=====	134	4.865	4.880	(1.000)	61834	0.04983	24.8 (R)
* 10 2-Methylnaphthalene-d10	=====	152	5.424	5.424	(1.000)	382271	0.50000	0.500
\$ 11 2-Methylnaphthalene-d10 (SS)	=====	152	5.424	5.424	(0.858)	382271	0.47808	239
12 2-Methylnaphthalene	=====	142	5.450	5.450	(1.005)	401597	0.52147	261
* 13 1-Methylnaphthalene-d10	=====	152	5.503	5.503	(1.000)	370758	0.50000	0.500
\$ 14 1-Methylnaphthalene-d10 (SS)	=====	152	5.503	5.503	(0.871)	370758	0.46648	233
15 1-Methylnaphthalene	=====	142	5.533	5.533	(1.005)	369280	0.51335	257
16 Biphenyl	=====	154	5.835	5.835	(1.076)	474316	0.51860	259
* 17 2,6-Dimethylnaphthalene-d12	=====	168	5.935	5.933	(1.000)	331380	0.50000	0.500
\$ 18 2,6-Dimethylnaph-d12 (SS)	=====	168	5.935	5.933	(0.939)	331380	0.48583	243
19 2,6 Dimethylnaphthalene	=====	156	5.969	5.969	(1.006)	336134	0.50894	254

Data File: /var/chem/gcms/mp.i/P072911.b/mk2d01ac.d
Report Date: 04-Aug-2011 19:01

Compounds	QUANT SIG	MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN	FINAL
							(ug/ml)	(ng/sample)
=====	=====	=====	=====	=====	=====	=====	=====	=====
* 20 Acenaphthylene-d8		160	6.194	6.194	(1.000)	616894	0.50000	0.500
\$ 21 Acenaphthylene-d8 (SS)		160	6.194	6.194	(0.980)	616894	0.55335	277
22 Acenaphthylene		152	6.202	6.202	(1.001)	565885	0.45499	227
* 23 Acenaphthene-d10		164	6.322	6.325	(1.000)	315085	0.50000	0.500
24 Acenaphthene		154	6.350	6.350	(1.025)	335416	0.45155	226
25 2,3,5 Trimethylnaphthalene		170	6.669	6.669	(1.124)	302293	0.54872	274
\$ 26 Fluorene-d10		176	6.758	6.758	(0.892)	218	0.000355	0.178(R)
27 Fluorene		166	6.783	6.783	(0.895)	393669	0.49414	247
\$ 28 13C6-Fluorene		171	6.781	6.781	(0.895)	370	0.000538	0.269(R)
* 34 Dibenzothiophene-d8		192	7.474	7.474	(1.000)	559879	0.50000	0.500
\$ 35 Dibenzothiophene-d8 (SS)		192	7.474	7.474	(0.841)	559879	0.39967	200
36 Dibenzothiophene		184	7.488	7.489	(1.002)	521355	0.48818	244
* 41 Phenanthrene-d10		188	7.578	7.578	(1.000)	519646	0.50000	0.500
\$ 42 Phenanthrene-d10 (SS)		188	7.578	7.578	(0.853)	519646	0.41116	206
43 Phenanthrene		178	7.596	7.597	(1.002)	597118	0.52337	262
* 44 Anthracene-d10		188	7.626	7.626	(1.000)	513428	0.50000	0.500
\$ 45 Anthracene-d10 (SS)		188	7.626	7.626	(0.858)	513425	0.48108	241
46 Anthracene		178	7.642	7.642	(1.002)	569372	0.43096	215
\$ 47 13C6-Anthracene		184	7.640	7.642	(0.860)	473747	0.40953	205
52 1-Methylphenanthrene		192	8.143	8.143	(1.075)	406453	0.59309	297
* 53 Fluoranthene-d10		212	8.663	8.665	(1.000)	594263	0.50000	0.500
\$ 54 Fluoranthene-d10 (SS)		212	8.663	8.665	(0.975)	594263	0.50484	252
55 Fluoranthene		202	8.683	8.683	(1.002)	620040	0.46371	232
* 56 Pyrene-d10		212	8.885	8.885	(1.000)	479862	0.50000	0.500
57 Pyrene		202	8.902	8.904	(1.028)	638629	0.45164	226
\$ 58 Terphenyl-d14		244	9.045	9.043	(1.044)	123	0.000202	0.101(R)
* 60 Benzo(a)anthracene-d12		240	10.100	10.100	(1.000)	429859	0.50000	0.500
\$ 61 Benzo(a)anthracene-d12 (SS)		240	10.100	10.100	(1.137)	429859	0.73443	367(R)
62 Benzo(a)anthracene		228	10.121	10.121	(1.002)	513434	0.37359	187
* 63 Chrysene-d12		240	10.133	10.133	(1.000)	454070	0.50000	0.500
\$ 64 Chrysene-d12 (SS)		240	10.133	10.133	(1.141)	454070	0.44219	221
65 Chrysene		228	10.158	10.163	(1.002)	517386	0.52197	261
* 70 Benzo(b)fluoranthene-d12		264	11.253	11.253	(1.000)	422386	0.50000	0.500
\$ 71 Benzo(b)fluoranthene-d12 (SS)		264	11.253	11.253	(0.973)	422386	0.58647	293
72 Benzo(b)fluoranthene		252	11.277	11.277	(1.002)	490967	0.39563	198
* 73 Benzo(k)fluoranthene-d12		264	11.289	11.289	(1.000)	440356	0.50000	0.500
\$ 74 Benzo(k)fluoranthene-d12 (SS)		264	11.289	11.289	(0.976)	440356	0.42840	214
75 Benzo(k)fluoranthene		252	11.307	11.307	(1.002)	510164	0.52915	265
* 76 Benzo(e)pyrene-d12		264	11.570	11.570	(1.000)	341524	0.50000	0.500
77 Benzo(e)pyrene		252	11.599	11.600	(0.997)	450194	0.40461	202
* 78 Benzo(a)pyrene-d12		264	11.635	11.635	(1.000)	409472	0.50000	0.500
\$ 79 Benzo(a)pyrene-d12 (SS)		264	11.635	11.635	(1.006)	409472	0.55605	278
80 Benzo(a)pyrene		252	11.665	11.665	(1.003)	435510	0.46866	234
* 81 Perylene-d12		264	11.731	11.737	(1.000)	369504	0.50000	0.500
\$ 82 Perylene-d12 (SS)		264	11.731	11.737	(1.014)	369504	0.50310	252
83 Perylene		252	11.761	11.761	(1.003)	420915	0.45208	226
* 84 Indeno(123-cd)pyrene-d12		288	13.106	13.106	(1.000)	442145	0.50000	0.500

8/14/11

Data File: /var/chem/gcms/mp.i/P072911.b/mk2d01ac.d

Report Date: 04-Aug-2011 19:01

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN	FINAL
	MASS					(ug/ml)	(ng/sample)
=====	=====	==	=====	=====	=====	=====	=====
\$ 85 Indeno(123-cd)pyrene-d12 (SS)	288	13.106	13.106	(1.133)	442145	0.52543	263
86 Indeno(1,2,3-cd)pyrene	276	13.140	13.140	(1.003)	488084	0.45602	228
* 87 Dibenz(ah)anthracene-d14	292	13.110	13.110	(1.000)	322211	0.50000	0.500
\$ 88 Dibenz(ah)anthracene-d14 (SS)	292	13.110	13.110	(1.133)	322211	0.50270	251
89 Dibenz(a,h)anthracene	278	13.156	13.157	(1.004)	390006	0.49287	246
* 90 Benzo(ghi)perylene-d12	288	13.456	13.460	(1.000)	307404	0.50000	0.500
\$ 91 Benzo(ghi)perylene-d12 (SS)	288	13.456	13.460	(1.163)	307404	0.48608	243
92 Benzo(g,h,i)perylene	276	13.494	13.494	(1.003)	407070	0.47838	239

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

Data File: /var/chem/gcms/mp.i/P072911.b/mk2d01ac.d
 Report Date: 04-Aug-2011 19:01

TestAmerica Knoxville

RECOVERY REPORT

Client Name: ITSBUR Client SDG: H1G200000
 Sample Matrix: GAS Fraction: SV
 Lab Smp Id: MK2D01AC Client Smp ID: INTRA-LAB CHECK
 Level: LOW Operator: 11211
 Data Type: MS DATA SampleType: METHOD SPIKE
 SpikeList File: icv.spk Quant Type: ISTD
 Sublist File: pah.sub
 Method File: /var/chem/gcms/mp.i/P072911.b/SIMPAH3.m
 Misc Info: P072911,SIMPAH3

SPIKE COMPOUND	CONC ADDED ng/sample	CONC RECOVERED ng/sample	% RECOVERED	LIMITS
3 Naphthalene	2000	2180	109.13	70-130
12 2-Methylnaphthalen	250	261	104.29	70-130
15 1-Methylnaphthalen	250	257	102.67	70-130
16 Biphenyl	250	259	103.72	70-130
19 2,6 Dimethylnaphth	250	254	101.79	70-130
22 Acenaphthylene	250	227	91.00	70-130
24 Acenaphthene	250	226	90.31	70-130
25 2,3,5 Trimethylnap	250	274	109.74	70-130
27 Fluorene	250	247	98.83	70-130
36 Dibenzothiophene	250	244	97.64	70-130
43 Phenanthrene	250	262	104.67	70-130
46 Anthracene	250	215	86.19	70-130
52 1-Methylphenanthre	250	297	118.62	70-130
55 Fluoranthene	250	232	92.74	70-130
57 Pyrene	250	226	90.33	70-130
62 Benzo(a)anthracene	250	187	✓ 74.72	70-130
65 Chrysene	250	261	104.39	70-130
72 Benzo(b)fluoranth	250	198	79.13	70-130
75 Benzo(k)fluoranth	250	265	105.83	70-130
77 Benzo(e)pyrene	250	202	80.92	70-130
80 Benzo(a)pyrene	250	234	93.73	70-130
83 Perylene	250	226	90.42	70-130
86 Indeno(1,2,3-cd)py	250	228	91.20	70-130
89 Dibenz(a,h)anthrac	250	246	98.57	70-130
92 Benzo(g,h,i)peryle	250	239	95.68	70-130

SURROGATE COMPOUND	CONC ADDED ng/sample	CONC RECOVERED ng/sample	% RECOVERED	LIMITS
\$ 2 Naphthalene-d8(SS)	250	228	91.18	30-120

Data File: /var/chem/gcms/mp.i/P072911.b/mk2d01ac.d

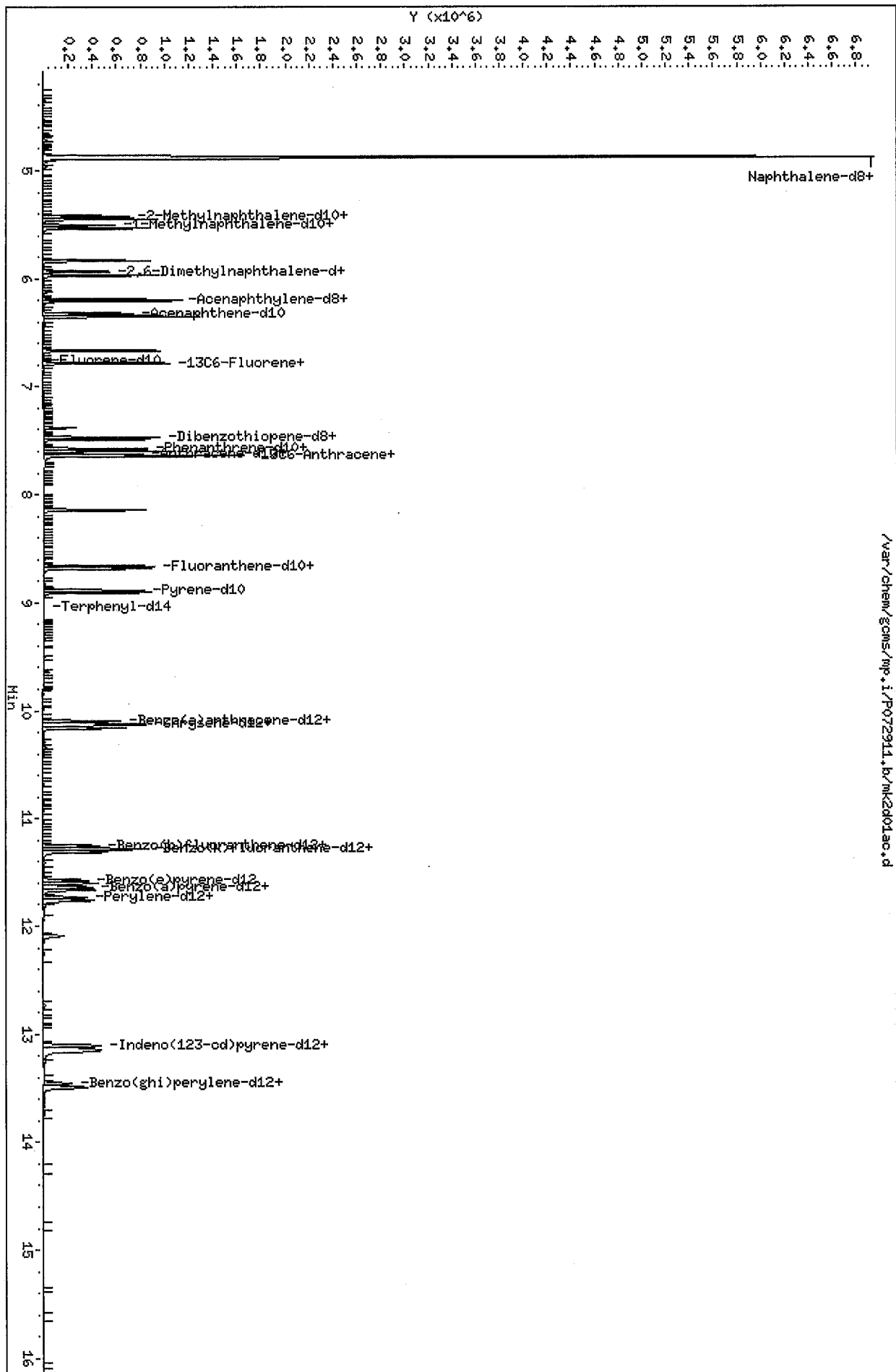
Report Date: 04-Aug-2011 19:01

SURROGATE COMPOUND	CONC ADDED ng/sample	CONC RECOVERED ng/sample	% RECOVERED	LIMITS
\$ 222 13C6-Naphthalene	250	24.9	9.97*	50-150
\$ 11 2-Methylnaphthalen	250	239	95.62	30-120
\$ 14 1-Methylnaphthalen	250	233	93.30	30-120
\$ 18 2,6-Dimethylnaph-d	250	243	97.17	30-120
\$ 21 Acenaphthylene-d8 (	250	277	110.67	30-120
\$ 26 Fluorene-d10	500	0.178	0.04*	30-120
\$ 28 13C6-Fluorene	500	0.269	0.05*	30-120
\$ 35 Dibenzothiopene-d8	250	200	79.93	30-120
\$ 42 Phenanthrene-d10 (S	250	206	82.23	30-120
\$ 45 Anthracene-d10 (SS)	250	241	96.22	30-120
\$ 47 13C6-Anthracene	250	205	81.91	30-120
\$ 54 Fluoranthene-d10 (S	250	252	100.97	0-120
\$ 58 Terphenyl-d14	500	0.101	0.02*	30-120
\$ 61 Benzo (a) anthracene	250	367	146.89*	30-120 *
\$ 64 Chrysene-d12 (SS)	250	221	88.44	30-120
\$ 71 Benzo (b) fluoranthe	250	293	117.29	30-120
\$ 74 Benzo (k) fluoranthe	250	214	85.68	30-120
\$ 79 Benzo (a) pyrene-d12	250	278	111.21	30-120
\$ 82 Perylene-d12 (SS)	250	252	100.62	30-120
\$ 85 Indeno (123-cd) pyre	250	263	105.09	30-120
\$ 88 Dibenz (ah) anthrace	250	251	100.54	30-120
\$ 91 Benzo (ghi) perylene	250	243	97.22	30-120

60-140
2/2/11

Data File: /var/chem/gcms/mp.i/P072911.b/mk2d01ac.d
 Date : 29-JUL-2014 12:12
 Client ID: INTRA-LAB CHECK
 Sample Info: ,3,LCS
 Purge Volume: 1.0
 Column phase: Varian: SMS

Instrument: mp.i
 Operator: 11211
 Column diameter: 0.25



Data File: /var/chem/gcms/mp.i/P072911.b/mk2d01ad.d
Report Date: 04-Aug-2011 19:01

TestAmerica Knoxville

SEMIVOLATILE QUANTITATION REPORT

Data file : /var/chem/gcms/mp.i/P072911.b/mk2d01ad.d
Lab Smp Id: MK2D01AD Client Smp ID: INTRA-LAB CHECK
Inj Date : 29-JUL-2011 12:37
Operator : 11211 Inst ID: mp.i
Smp Info : , , 3 , , LCSD
Misc Info : P072911, SIMPAH3
Comment :
Method : /var/chem/gcms/mp.i/P072911.b/SIMPAH3.m
Meth Date : 04-Aug-2011 19:00 cochranj Quant Type: ISTD
Cal Date : 26-JUL-2011 20:15 Cal File: pg26ic07.d
Als bottle: 5 QC Sample: METHOD SPIKE
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 3.50
Processing Host: qmidhp01

Concentration Formula: Amt * DF * Sf * Vt / Vo * CpndVariable

Name	Value	Description
DF	1.00000 ✓	Dilution Factor
Sf	1.00000 ✓	Split factor
Vt	500.00000	Volume of final extract (uL)
Vo	1.00000	Volume of sample extracted (sample)

Cpnd Variable

Local Compound Variable

Compounds	QUANT SIG	MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN (ug/ml)	FINAL (ng/sample)
* 1 Naphthalene-d8		136	4.865	4.865	(1.000)	754963	0.50000	0.500
\$ 2 Naphthalene-d8 (SS)		136	4.865	4.865	(0.769)	754963	0.46214	231
3 Naphthalene		128	4.880	4.880	(1.003)	5596950	4.36837	2180
\$ 222 13C6-Naphthalene		134	4.865	4.880	(1.000)	68900	0.04969	24.8 (R)
* 10 2-Methylnaphthalene-d10		152	5.424	5.424	(1.000)	427839	0.50000	0.500
\$ 11 2-Methylnaphthalene-d10 (SS)		152	5.424	5.424	(0.858)	427839	0.48536	243
12 2-Methylnaphthalene		142	5.450	5.450	(1.005)	444400	0.51559	258
* 13 1-Methylnaphthalene-d10		152	5.503	5.503	(1.000)	417030	0.50000	0.500
\$ 14 1-Methylnaphthalene-d10 (SS)		152	5.503	5.503	(0.870)	417030	0.47596	238
15 1-Methylnaphthalene		142	5.533	5.533	(1.005)	409364	0.50593	253
16 Biphenyl		154	5.835	5.835	(1.076)	531190	0.51892	259
* 17 2,6-Dimethylnaphthalene-d12		168	5.935	5.935	(1.000)	372877	0.50000	0.500
\$ 18 2,6-Dimethylnaph-d12 (SS)		168	5.935	5.935	(0.938)	372877	0.49589	248
19 2,6 Dimethylnaphthalene		156	5.969	5.969	(1.006)	376091	0.50607	253

Data File: /var/chem/gcms/mp.i/P072911.b/mk2d01ad.d
Report Date: 04-Aug-2011 19:01

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/ml)	FINAL (ng/sample)
=====	=====	==	=====	=====	=====	=====	=====
* 20 Acenaphthylene-d8	160	6.194	6.194	(1.000)	697924	0.50000	0.500
\$ 21 Acenaphthylene-d8 (SS)	160	6.194	6.194	(0.979)	697924	0.56788	284
22 Acenaphthylene	152	6.202	6.202	(1.001)	639264	0.45432	227
* 23 Acenaphthene-d10	164	6.325	6.325	(1.000)	347352	0.50000	0.500
24 Acenaphthene	154	6.350	6.350	(1.025)	371524	0.44209	221
25 2,3,5 Trimethylnaphthalene	170	6.669	6.669	(1.124)	337840	0.54500	272
\$ 26 Fluorene-d10	176	6.761	6.758	(0.892)	248	0.000361	0.481(R)
27 Fluorene	166	6.783	6.783	(0.895)	441807	0.49686	248
\$ 28 13C6-Fluorene	171	6.778	6.781	(0.894)	450	0.000587	0.293(R)
* 34 Dibenzothiophene-d8	192	7.474	7.474	(1.000)	621256	0.50000	0.500
\$ 35 Dibenzothiophene-d8 (SS)	192	7.474	7.474	(0.841)	621256	0.40782	204
36 Dibenzothiophene	184	7.488	7.489	(1.002)	577022	0.48692	243
* 41 Phenanthrene-d10	188	7.578	7.578	(1.000)	579989	0.50000	0.500
\$ 42 Phenanthrene-d10 (SS)	188	7.578	7.578	(0.853)	579989	0.42200	211
43 Phenanthrene	178	7.596	7.597	(1.002)	657264	0.51615	258
* 44 Anthracene-d10	188	7.625	7.626	(1.000)	578101	0.50000	0.500
\$ 45 Anthracene-d10 (SS)	188	7.625	7.626	(0.858)	578101	0.49812	249
46 Anthracene	178	7.642	7.642	(1.002)	627446	0.42178	211
\$ 47 13C6-Anthracene	184	7.642	7.642	(0.860)	517275	0.41120	206
52 1-Methylphenanthrene	192	8.143	8.143	(1.075)	453196	0.59249	296
* 53 Fluoranthene-d10	212	8.665	8.665	(1.000)	656169	0.50000	0.500
\$ 54 Fluoranthene-d10 (SS)	212	8.665	8.665	(0.975)	656169	0.51260	256
55 Fluoranthene	202	8.683	8.683	(1.002)	684455	0.46360	232
* 56 Pyrene-d10	212	8.885	8.885	(1.000)	521826	0.50000	0.500
57 Pyrene	202	8.904	8.904	(1.028)	704070	0.45095	225
\$ 58 Terphenyl-d14	244	9.045	9.043	(1.044)	79	0.000119	0.0594(R)
* 60 Benzo(a)anthracene-d12	240	10.100	10.100	(1.000)	476744	0.50000	0.500
\$ 61 Benzo(a)anthracene-d12 (SS)	240	10.100	10.100	(1.137)	476744	0.74903	375(R)
62 Benzo(a)anthracene	228	10.121	10.121	(1.002)	570275	0.37414	187
* 63 Chrysene-d12	240	10.133	10.133	(1.000)	500242	0.50000	0.500
\$ 64 Chrysene-d12 (SS)	240	10.133	10.133	(1.141)	500242	0.44798	224
65 Chrysene	228	10.158	10.163	(1.002)	574458	0.52606	263
* 70 Benzo(b)fluoranthene-d12	264	11.253	11.253	(1.000)	469420	0.50000	0.500
\$ 71 Benzo(b)fluoranthene-d12 (SS)	264	11.253	11.253	(0.973)	469420	0.59873	299
72 Benzo(b)fluoranthene	252	11.277	11.277	(1.002)	543892	0.39436	197
* 73 Benzo(k)fluoranthene-d12	264	11.289	11.289	(1.000)	493327	0.50000	0.500
\$ 74 Benzo(k)fluoranthene-d12 (SS)	264	11.289	11.289	(0.976)	493327	0.44088	220
75 Benzo(k)fluoranthene	252	11.307	11.307	(1.002)	570516	0.52821	264
* 76 Benzo(e)pyrene-d12	264	11.570	11.570	(1.000)	371782	0.50000	0.500
77 Benzo(e)pyrene	252	11.599	11.600	(0.997)	504829	0.40496	202
* 78 Benzo(a)pyrene-d12	264	11.635	11.635	(1.000)	458770	0.50000	0.500
\$ 79 Benzo(a)pyrene-d12 (SS)	264	11.635	11.635	(1.006)	458770	0.57229	286
80 Benzo(a)pyrene	252	11.665	11.665	(1.003)	487635	0.46836	234
* 81 Perylene-d12	264	11.731	11.737	(1.000)	411280	0.50000	0.500
\$ 82 Perylene-d12 (SS)	264	11.731	11.737	(1.014)	411280	0.51440	257
83 Perylene	252	11.767	11.761	(1.003)	470207	0.45372	227
* 84 Indeno(123-cd)pyrene-d12	288	13.106	13.106	(1.000)	500780	0.50000	0.500

Data File: /var/chem/gcms/mp.i/P072911.b/mk2d01ad.d
 Report Date: 04-Aug-2011 19:01

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN	FINAL
	MASS					(ug/ml)	(ng/sample)
=====	=====	==	=====	=====	=====	=====	=====
\$ 85 Indeno(123-cd)pyrene-d12(SS)	288	13.106	13.106	(1.133)	500780	0.54667	273
86 Indeno(1,2,3-cd)pyrene	276	13.140	13.140	(1.003)	550833	0.45439	227
* 87 Dibenz(ah)anthracene-d14	292	13.110	13.110	(1.000)	374215	0.50000	0.500
\$ 88 Dibenz(ah)anthracene-d14(SS)	292	13.110	13.110	(1.133)	374215	0.53631	268
89 Dibenz(a,h)anthracene	278	13.156	13.157	(1.004)	441042	0.47992	240
* 90 Benzo(ghi)perylene-d12	288	13.460	13.460	(1.000)	346736	0.50000	0.500
\$ 91 Benzo(ghi)perylene-d12(SS)	288	13.460	13.460	(1.163)	346736	0.50366	252
92 Benzo(g,h,i)perylene	276	13.494	13.494	(1.002)	459297	0.47853	239

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

Data File: /var/chem/gcms/mp.i/P072911.b/mk2d01ad.d

Report Date: 04-Aug-2011 19:01

TestAmerica Knoxville

RECOVERY REPORT

Client Name: ITSBUR

Sample Matrix: GAS

Lab Smp Id: MK2D01AD

Level: LOW

Data Type: MS DATA

SpikeList File: icv.spk

Sublist File: pah.sub

Method File: /var/chem/gcms/mp.i/P072911.b/SIMPAH3.m

Misc Info: P072911,SIMPAH3

Client SDG: H1G200000

Fraction: SV

Client Smp ID: INTRA-LAB CHECK

Operator: 11211

SampleType: METHOD SPIKE

Quant Type: ISTD

SPIKE COMPOUND	CONC ADDED ng/sample	CONC RECOVERED ng/sample	% RECOVERED	LIMITS
3 Naphthalene	2000	2180	109.21	70-130
12 2-Methylnaphthalen	250	258	103.12	70-130
15 1-Methylnaphthalen	250	253	101.19	70-130
16 Biphenyl	250	259	103.78	70-130
19 2,6 Dimethylnaphth	250	253	101.21	70-130
22 Acenaphthylene	250	227	90.86	70-130
24 Acenaphthene	250	221	88.42	70-130
25 2,3,5 Trimethylnap	250	272	109.00	70-130
27 Fluorene	250	248	99.37	70-130
36 Dibenzothiophene	250	243	97.38	70-130
43 Phenanthrene	250	258	103.23	70-130
46 Anthracene	250	211	84.36	70-130
52 1-Methylphenanthre	250	296	118.50	70-130
55 Fluoranthene	250	232	92.72	70-130
57 Pyrene	250	225	90.19	70-130
62 Benzo(a)anthracene	250	187	74.83	70-130
65 Chrysene	250	263	105.21	70-130
72 Benzo(b)fluoranthene	250	197	78.87	70-130
75 Benzo(k)fluoranthene	250	264	105.64	70-130
77 Benzo(e)pyrene	250	202	80.99	70-130
80 Benzo(a)pyrene	250	234	93.67	70-130
83 Perylene	250	227	90.74	70-130
86 Indeno(1,2,3-cd)py	250	227	90.88	70-130
89 Dibenz(a,h)anthrac	250	240	95.98	70-130
92 Benzo(g,h,i)perylene	250	239	95.71	70-130

SURROGATE COMPOUND	CONC ADDED ng/sample	CONC RECOVERED ng/sample	% RECOVERED	LIMITS
\$ 2 Naphthalene-d8 (SS)	250	231	92.43	30-120

Data File: /var/chem/gcms/mp.i/P072911.b/mk2d01ad.d

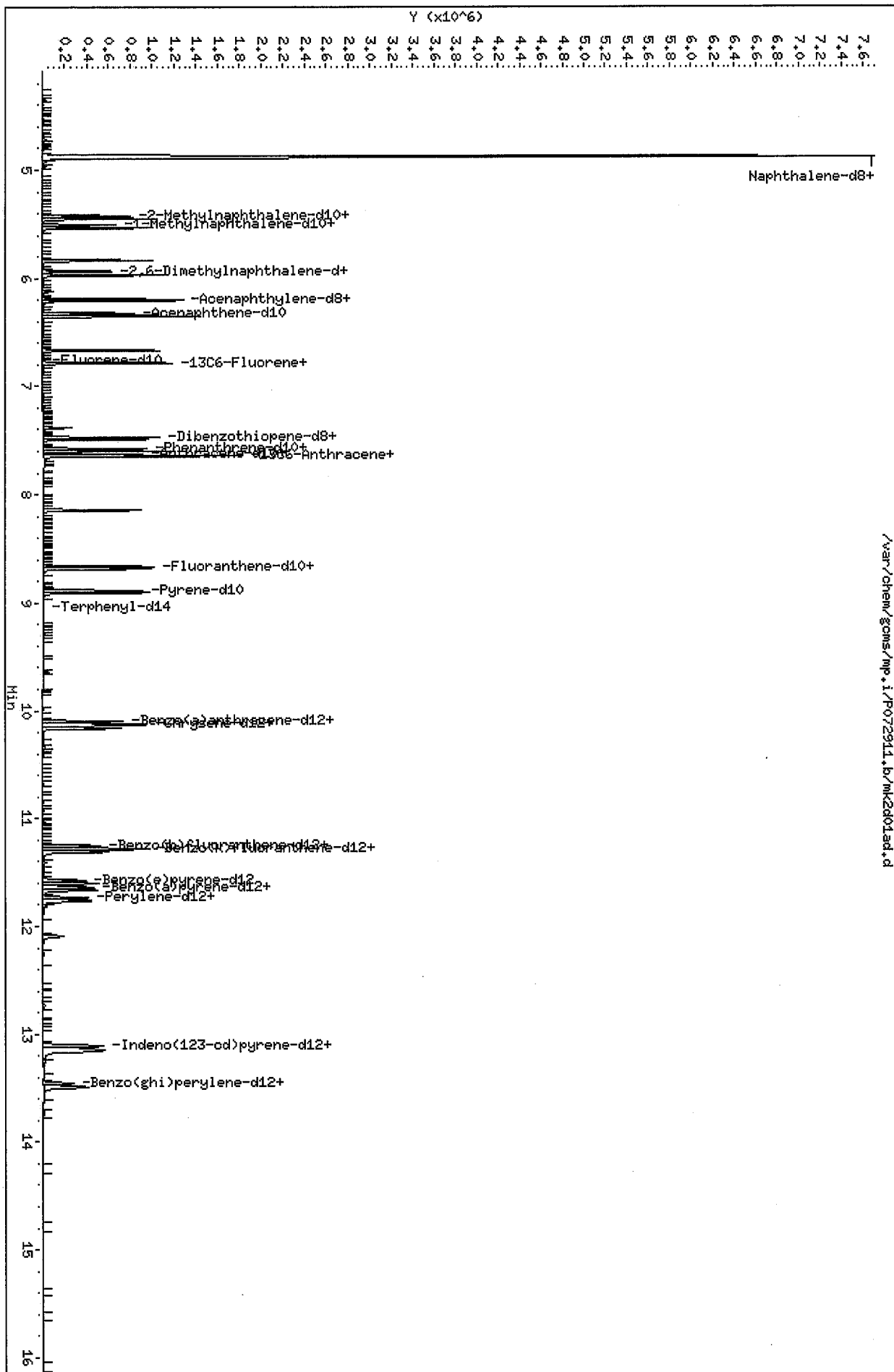
Report Date: 04-Aug-2011 19:01

SURROGATE COMPOUND	CONC ADDED ng/sample	CONC RECOVERED ng/sample	% RECOVERED	LIMITS
\$ 222 13C6-Naphthalene	250	24.8	9.94*	50-150
\$ 11 2-Methylnaphthalen	250	243	97.07	30-120
\$ 14 1-Methylnaphthalen	250	238	95.19	30-120
\$ 18 2,6-Dimethylnaph-d	250	248	99.18	30-120
\$ 21 Acenaphthylene-d8 (	250	284	113.58	30-120
\$ 26 Fluorene-d10	500	0.181	0.04*	30-120
\$ 28 13C6-Fluorene	500	0.293	0.06*	30-120
\$ 35 Dibenzothiopene-d8	250	204	81.56	30-120
\$ 42 Phenanthrene-d10 (S	250	211	84.40	30-120
\$ 45 Anthracene-d10 (SS)	250	249	99.62	30-120
\$ 47 13C6-Anthracene	250	206	82.24	30-120
\$ 54 Fluoranthene-d10 (S	250	256	102.52	0-120
\$ 58 Terphenyl-d14	500	0.0594	0.01*	30-120
\$ 61 Benzo (a) anthracene	250	375	149.81*	30-120 *
\$ 64 Chrysene-d12 (SS)	250	224	89.60	30-120
\$ 71 Benzo (b) fluoranthe	250	299	119.75	30-120
\$ 74 Benzo (k) fluoranthe	250	220	88.18	30-120
\$ 79 Benzo (a) pyrene-d12	250	286	114.46	30-120
\$ 82 Perylene-d12 (SS)	250	257	102.88	30-120
\$ 85 Indeno (123-cd) pyre	250	273	109.33	30-120
\$ 88 Dibenz (ah) anthrace	250	268	107.26	30-120
\$ 91 Benzo (ghi) perylene	250	252	100.73	30-120

60-140
10/11

Data File: /var/chem/gcms/mp.i/P072911.b/mk2d01ad.d
 Date : 29-JUL-2011 12:37
 Client ID: INTRA-LAB CHECK
 Sample Info: ,3,LCSO
 Purge Volume: 1.0
 Column phase: Varian: SMS

Instrument: mp.i
 Operator: 11211
 Column diameter: 0.25



Miscellaneous Data

Lot Number:	419190403	Instrument:	MP
Scanned Filenames:	P072611E		
	P072911		
	P080111E		
	P080311		

A. Tune / Calibration	N/A	Yes	No	Why is data reportable?	2nd ✓																												
1. Were all samples injected within 12 hr of CCAL?		✓			✓																												
2. Was the correct ICAL used for quantitation? (Check 1 RF per sample/QC sample.)		✓			✓																												
B. Sample Results	N/A	Yes	No	Why is data reportable?	2nd ✓																												
1. Were all special project requirements met?		✓			✓																												
2. Were sample preparation and analytical HTs met? If no, list NCM#		✓		<input type="checkbox"/> [ht1] HT expired upon receipt. <input type="checkbox"/> [ht2] Client requested analysis after HT expired.* <input type="checkbox"/> Re-extraction done after HT expired.	✓																												
3. Was prep info (sample amount, final vol, split factors, units, prep dates/times) verified?		✓			✓																												
4. For sediment samples, were the RLs and MDLs adjusted for % moisture using QuantIMS DF?	✓				NA																												
5. Was date/time of analysis verified between header and logbook?		✓			✓																												
6. Was header information (WO#, data file, initial wt/vol, extract vol, DF) verified?		✓			✓																												
7. Were peaks properly identified?		✓			✓																												
8. Are peak integrations appropriate?		✓			✓																												
9. Were alkyl group start/end times and patterns verified?	✓	✗		NA 8-11	NA																												
10. Are internal standards & alternate standards (30-120% R), sampling surrogates (50-150% R) within QC limits for samples and matrix spikes?				<input checked="" type="checkbox"/> [is1] IS above QC limits. <input type="checkbox"/> [is2] IS below QC limits. <input type="checkbox"/> [sur1] Surrogates outside QC limits.	NA																												
<table border="0"> <thead> <tr> <th>Sample</th> <th>Reason</th> <th>Sample</th> <th>Reason</th> </tr> </thead> <tbody> <tr> <td>MK2001AA</td> <td>ISI</td> <td>MK09T1A</td> <td>ISI</td> </tr> <tr> <td>MK2001AC</td> <td></td> <td>MK09V1A</td> <td>2</td> </tr> <tr> <td>MK2001AD</td> <td></td> <td></td> <td></td> </tr> <tr> <td>MK09P1AC</td> <td></td> <td></td> <td></td> </tr> <tr> <td>MK09Q1AC</td> <td></td> <td></td> <td></td> </tr> <tr> <td>MK09R1AC</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	Sample	Reason	Sample	Reason	MK2001AA	ISI	MK09T1A	ISI	MK2001AC		MK09V1A	2	MK2001AD				MK09P1AC				MK09Q1AC				MK09R1AC					✓			
Sample	Reason	Sample	Reason																														
MK2001AA	ISI	MK09T1A	ISI																														
MK2001AC		MK09V1A	2																														
MK2001AD																																	
MK09P1AC																																	
MK09Q1AC																																	
MK09R1AC																																	
11. If amount extracted was <80% of nominal amount, were the RLs/MDLs adjusted? List samples:	✓	✗		<input type="checkbox"/> [elev6] Elevated RLs for all analytes due to insufficient sample amount received.	NA																												
12. For initial analysis that's a dilution, was the largest analyte >20% of calibration range? List diluted samples and reason (e.g elev1) Sample Reason Sample Reason	✓			<input type="checkbox"/> [elev1] Elevated RL for (ANALYTE) due to sample matrix interferences. <input type="checkbox"/> [elev2] Elevated RL for (ANALYTE) due to interfering analyte. <input type="checkbox"/> [elev3] Elevated RLs for all analytes due to difficult sample matrix. <input type="checkbox"/> [elev4] Diluted based on screening results. <input type="checkbox"/> [elev5] Elevated RLs for all analytes due to presence of non-target compounds.	NA																												

Lot Number:	H16190403				
13. If bench dilutions were required, were results within calibration range?				<input type="checkbox"/> [E1] 1 g prep performed. <input type="checkbox"/> [E2] 1 g multi-spike prep performed. <input type="checkbox"/> [E3] Post-extraction spike performed. <input type="checkbox"/> [E4] E values reported per client.	NA Yes 2/15/18
Sample Reason Sample Reason _____ _____ _____ _____ _____				✓	
14. For secondary diluted analyses to bring compounds in calibration range, was the largest analyte targeted to be above 50% of calibration range? List diluted samples and reason (e.g., dil1):				<input type="checkbox"/> [dil1] Conc. of (ANALYTE) > calibration range. RLs adjusted accordingly. <input checked="" type="checkbox"/> [dil2] Conc. of several compounds > calibration range. RLs adjusted accordingly. <input type="checkbox"/> [dil3] Conc. of (ANALYTE) > calibration range. Both analyses reported to provide lowest RLs. <input type="checkbox"/> [dil4] Conc. of several compounds > calibration range. Both analyses reported to provide lowest RLs.	✓
Sample Reason Sample Reason MK09PAC DEL2 MK09Q1AC MK09R1AC _____ _____				✓	
15. Was the upper calibration range (UCL) calculated correctly and were hits >UCL flagged with "E"?				✓	✓
16. If manual integrations were performed, are they clearly identified, initialed, dated and reason given?				✓	Reasons: 1) Corrected split peak; 2) Unresolved peak; 3) Tailing; 4) RT shift; 5) Wrong peak selected; 6) Other
17. Have alternate hits and manual integrations been verified as correct?				✓	✓
C. Preparation/Matrix QC Results	N/A	Yes	No	Why is data reportable?	2nd ✓
1. LCS native analyte %R within QC limits (60-140%)? If no, list NCM#:: _____				<input type="checkbox"/> [lcs1] Insufficient sample for reanalysis. <input type="checkbox"/> [lcs2] Samples consumed during prep. <input type="checkbox"/> [lcs3] LCS %R high but analyte <RL in associated samples.	✓
2. LCS IS %R within QC limits (60-140%)?		Fail	✓	<input checked="" type="checkbox"/> [is3] IS above QC limits. <input type="checkbox"/> [is4] IS below QC limits.	NO
3. Method blank done per prep batch and method blank or instrument blank analyzed with each sequence?		✓			✓
4. Method blank IS %R within QC limits (60-140%)?			✓	<input checked="" type="checkbox"/> [is5] IS above QC limits. <input type="checkbox"/> [is6] IS below QC limits.	NO
5. Are all analytes present in the method blank ≤ RL?				<input type="checkbox"/> [mb1] Reported blank after client consultation. <input type="checkbox"/> [mb3] Analyte < RL in associated samples. <input type="checkbox"/> [mb4] Sample results >10x blank. <input type="checkbox"/> [mb5] Insufficient sample for reanalysis. <input type="checkbox"/> [mb7] Samples consumed during prep.	✓
6. Were MS run #'s assigned correctly?	✓				NA
7. Are MS/MSD recoveries and RPDs within QC limits?	✓			<input type="checkbox"/> [ms1] LCS acceptable. High native analyte concentration relative to spike level and/or lack of sample homogeneity.	NA
D. Final Report	N/A	Yes	No	Why is data reportable?	2nd ✓
1. Final report acceptable? (Results correct, RLs calculated correctly, units correct, IS %R correct, appropriate flags used, dilution factor correct, and extraction/ analysis dates correct.)		✓			✓

- All except LCS/D

- ✓

- ✓

- ☒

- ✓

- 10446

- ✓

- ✓

Date: 5/5/14

All samples with this lot had benz(a)anthracene off recoveries outside QC limits high.

2 samples MK09PIAC & MK09QIAC also had benz(b)fluoranthene outside DL limits (high)

Signals MK09PIAC, MK09QIAC, MK09RIAC had to dilute to bring compounds; naphthalene, phenanthrene, chrysene, & (MK09RIAC) pyrene to be within calibration range. Compounds were qualified with a "E" flag.

In vivo MK0914, MK0914E, MK0914 required a partner of CI for chrysalis & pupae.

Date: 8/8/11

Comments:

Delivered \$DO 7/28/11 16:45

Initials/Date/Time

Received: 7/27/11 16:45
Initials/Date/Time

[illegible]

Comments: Added 1.02L EM3061 & 1.02L of EM3062 to BNA LCS/LCS DUP

Page 2 of 3

[illegible]

[illegible]

Comments:

270 Extracts	
MeCl ₂ Lot #: <u>NA</u>	
Concentrate to <1 mL by N-EVAP.	QC to 1 mL in Class A volumetric. Transfer to 2 mL vial.

[illegible]

RQC058

TestAmerica Laboratories, Inc.
EXTRACTION BENCH WORKSHEETRun Date: 8/05/11
Time: 14:07:16*****
* QC BATCH: 1201079 *
* PREP DATE: 7/20/11 17:00 *
* COMP DATE: 7/28/11 16:00 *

EXTR EXPR	ANL DUE	LOT# WORK ORDER	TEST FLGS	EXT	MTH	MATRIX	INIT/FIN WT/VOL	PH'S ADJ1	ADJ2	EXTRACTION VOL	SOLVENTS EXCHANGE	VOL	SPIKE STANDARD/ SURROGATE ID	
7/21/11	8/02/11	H1G190403-005 MK09V-1-AC	D	IP	YA	AIR	1.0Sample .50mL	NA	NA	MECL2	450.0	HEXANE	50.0	PAH0317 2.0ML
COMMENTS:														
7/21/11	0/00/00	H1G200000-079 MK2D0-1-AAB		IP	YA	AIR	1.0Sample .50mL	NA	NA	MECL2	450.0	HEXANE	50.0	PAH0317 2.0ML
COMMENTS:														
7/21/11	0/00/00	H1G200000-079 MK2D0-1-ACC		IP	YA	AIR	1.0Sample .50mL	NA	NA	MECL2	450.0	HEXANE	50.0	PAH0297 1.0ML PAH0317 1.0ML
COMMENTS:														
7/21/11	0/00/00	H1G200000-079 MK2D0-1-ADL	R	IP	YA	AIR	1.0Sample .50mL	NA	NA	MECL2	450.0	HEXANE	50.0	PAH0297 1.0ML PAH0317 1.0ML
COMMENTS:														
7/25/11	8/08/11	H1G200446-001 MK2HW-1-AC	D	IP	YA	AIR	1.0Sample .50mL	NA	NA	MECL2	450.0	HEXANE	50.0	PAH0317 2.0ML
COMMENTS:														
7/26/11	8/08/11	H1G200446-002 MK2H0-1-AC	D	IP	YA	AIR	1.0Sample .50mL	NA	NA	MECL2	450.0	HEXANE	50.0	PAH0317 2.0ML
COMMENTS:														
7/26/11	8/08/11	H1G200446-003 MK2H1-1-AC	D	IP	YA	AIR	1.0Sample .50mL	NA	NA	MECL2	450.0	HEXANE	50.0	PAH0317 2.0ML
COMMENTS:														
7/25/11	8/08/11	H1G200446-004 MK2H2-1-AC	D	IP	YA	AIR	1.0Sample .50mL	NA	NA	MECL2	450.0	HEXANE	50.0	PAH0317 2.0ML
COMMENTS:														
7/25/11	8/08/11	H1G200446-004 MK2H2-2-AC	D	IP	YA	AIR	1.0Sample .50mL	NA	NA	MECL2	450.0	HEXANE	50.0	PAH0317 2.0ML
COMMENTS:														
7/25/11	8/08/11	H1G200446-008 MK2H6-1-AC	D	IP	YA	AIR	1.0Sample .50mL	NA	NA	MECL2	450.0	HEXANE	50.0	PAH0317 2.0ML
COMMENTS:														

ALL SAMPLES HAD A NEUTRAL PH AT APPROX. 8ML.

TestAmerica Knoxville Prep Batch Review Checklist

Batch # 1201079

Review Items	N/A	Yes	No	If No, why is data reportable?	2nd Level
1. Were the samples extracted within the required holding times?		✓		If No, NCM #: _____	✓
2. Are the final extracts free of water, precipitates, multiple phases, and for HRMS - color?			✓	MK2H2 is at 2.0ml would not blow down	✓
3. Were all project specific requirements met as noted on the Lot Checklists (L40) and the Sample List report?		✓			✓
4. Were MS Run numbers assigned properly?	✓				✓
5. Were the correct weights and volumes entered into QuantIMS for all samples and QC?		✓			✓
6. Was the correct completion date entered into QuantIMS?		✓			✓
7. Were the spike IDs and volumes entered correctly into QuantIMS?		✓			✓
8. Were all appropriate notes and observations recorded on the extraction benchsheet and in QuantIMS?		✓			✓
9. Was the extraction batch reviewed in QuantIMS using LIM L21?		✓			✓
10. Does the prep batch paperwork package contain all required documentation which has been properly and completely filled out, including: <ul style="list-style-type: none"> • Extraction Benchsheet • QuantIMS Benchsheet • Lot Checklists (L40) for all lots in batch • Sample List • Compound List Report • SOG Sample Tracking Sheet 		✓			✓
11. Are all nonconformances documented appropriately and copy included with deliverable?	✓			If Yes, NCM#: _____	✓
Analyst: <u>SDO</u> Date: <u>7/28/11</u>					
Comments:					
2nd Level Reviewer: <u>DWS</u> Date: <u>7/28/11</u>					
Comments:					

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

**Knoxville
5815 Middlebrook Pike
Knoxville, TN 37921
865-291-3000**

XAD Source Sampling Media Request Form

Form Number: 07-1114-2

scan completed document and save on the public drive under Media/PDFs; filename should be the form number. **Send a copy to PM.**

Date of Request: July 11, 2011

Company: TRC Solutions

Client Project: ExxonMobil Refinery ICR Testing

Client PO#: Pending HKRALL

Rush Order? Yes

Quantims Quote: 89094

Media Needed By: 7/12/2011

Project Manager: Kevin Woodcock

Quantity	Media Type	Spiked for Method	Media Check ID
7	Spiked XAD	8270C, SIM-PAH, <i>Sample pack 25000 Lot: 22593</i>	A 6486
		<i>ID: D428531</i>	
		<i>Packaged XAD</i>	
7	Particulate Filter	82.6mm GFF M0010 (SVOCs & SIM PAHs)	A 6487

Comments:

Rush, needed at the hotel tomorrow.

Methion	Color Code	Amt Spiked	Congr and Units	Spike Soln ID	Exp Date	Spiked By	Date Verified By
Brown	N/A	N/A					
Pink							
Green							
White	N/A	200 µL	PAH0347	5 mg/mL	5/12/12	SDC	7/11/11 DR
Blue							
Grey		NA	NA	NA	NA	NA	NA

Shipping (include blank COCs and Custody Seals with this shipment. Send temperature blanks where applicable)

Attn: Randy Monson/TRC (Guest)

Company: Comfort Suites

Address 1: 902 South 8th Street

Address 2:

City, State, Zip: La Porte, TX 77571

Phone: (512) 809-8619

Fax:

FedEx Email: RMonson@trcsolutions.com

Lot Number:

Completed/Shipped by: Emily Lantzer

Date Shipped: 7/10/11

Shipping Courier: FedEx

Tracking Number

Ref: SAMPLING MEDIA
Dep: 140015
Date: 07/11/2011
Net: 11 0150

DY=

SHIPPING:	37.86
SPECIAL:	5.68
HANDLING:	0.00
TOTAL:	43.54

Sample Receipt Documentation

CHAIN OF CUSTODY RECORD

H16190403

Project Name: ExxonMobil SRU ICR

Project No.: 184380

Sampling Date(s): 7-7-11

Laboratory: Test America

Laboratory P.O.:

Shipping Date(s): 7-17-11

Shipper's Name:

Box No.:

Sample ID	Date Sampled	Container	Matrix	Description	Analyses	Comments
EXM-SRU-M0010-R1-FHR	07/07/11	250 amber glass	Organic	run 1	M 0010	
EXM-SRU-M0010-R1-FIL	07/07/11	petri dish	Filter	run 1	M 0010	
EXM-SRU-M0010-R1-BHR	07/07/11	250 amber glass	Organic	run 1	M 0010	
EXM-SRU-M0010-R1-XAD	07/07/11	xad	XAD	run 1	M 0010	
EXM-SRU-M0010-R1-COND	07/07/11	500 ml glass amber	Aqueous	run 1	M 0010	
EXM-SRU-M0010-R2-FHR	07/08/11	250 amber glass	Organic	run 2	M 0010	
EXM-SRU-M0010-R2-FIL	07/08/11	petri dish	Filter	run 2	M 0010	
EXM-SRU-M0010-R2-BHR	07/08/11	250 amber glass	Organic	run 2	M 0010	
EXM-SRU-M0010-R2-XAD	07/08/11	xad	XAD	run 2	M 0010	
EXM-SRU-M0010-R2-COND	07/08/11	500 ml glass amber	Aqueous	run 2	M 0010	
EXM-SRU-M0010-R3-FHR	07/08/11	250 glass amber	Organic	run 3	M 0010	
EXM-SRU-M0010-R3-FIL	07/08/11	250 glass amber	Filter	run 3	M 0010	
EXM-SRU-M0010-R3-BHR	07/08/11	250 g amber	Organic	run 3	M 0010	
EXM-SRU-M0010-R3-XAD	07/08/11	XAD	XAD	run 3	M 0010	
EXM-SRU-M0010-R3-COND	07/08/11	500 ml amber	Aqueous	run 3	M 0010	
EXM-SRU-M0010-RGTBLK-XAD	07/08/11		XAD	xad reagent blank	M 0010	
EXM-SRU-M0010-RGTBLK-rinse	07/08/11		Organic	MeCl2/MeOH reagent blank	M 0010	
Relinquished by: R. Morrison				Relinquished by: C. Webb	7/19/11 8:23	Date/Time: 7/19/11 0820
Received by: C. Webb				Received by: [Signature]	7/19/11	Date/Time: 7/19/11 0820
Remarks (*):						

1 cooler received 2-3
with out custody seal
7/19/11
1 cooler hand delivered

TESTAMERICA KNOXVILLE SAMPLE RECEIPT/CONDITION UPON RECEIPT ANOMALY CHECKLIST

Lot Number: 416190403

Review Items	Yes	No	NA	If No, what was the problem?	Comments/Actions Taken
1. Do sample container labels match COC? (IDs, Dates, Times)				<input type="checkbox"/> 1a Do not match COC <input type="checkbox"/> 1b Incomplete information <input type="checkbox"/> 1c Marking smeared <input type="checkbox"/> 1d Label torn <input type="checkbox"/> 1e No label <input type="checkbox"/> 1f COC not received <input type="checkbox"/> 1g Other:	<u>416</u>
2. Is the cooler temperature within limits? (> freezing temp. of water to 6 °C, VOST: 10°C)	<input checked="" type="checkbox"/>			<input type="checkbox"/> 2a Temp Blank = <input type="checkbox"/> 2b Cooler Temp = <input type="checkbox"/> 2c Cooling initiated for recently collected samples, ice present. <input type="checkbox"/> 3a Sample preservative =	
3. Were samples received with correct chemical preservative (excluding Encore)?			<input checked="" type="checkbox"/>	<input type="checkbox"/> 4a Not present	
4. Were custody seals present/intact on cooler and/or containers?		<input checked="" type="checkbox"/>		<input type="checkbox"/> 4b Not intact <input type="checkbox"/> 4c Other:	
5. Were all of the samples listed on the COC received?	<input checked="" type="checkbox"/>			<input type="checkbox"/> 5a Samples received-not on COC <input type="checkbox"/> 5b Samples not received-on COC	
6. Were all of the sample containers received intact?	<input checked="" type="checkbox"/>			<input type="checkbox"/> 6a Leaking <input type="checkbox"/> 6b Broken	
7. Were VOA samples received without headspace?			<input checked="" type="checkbox"/>	<input type="checkbox"/> 7a Headspace (VOA only)	
8. Were samples received in appropriate containers?	<input checked="" type="checkbox"/>			<input type="checkbox"/> 8a Improper container	
9. Did you check for residual chlorine, if necessary?			<input checked="" type="checkbox"/>	<input type="checkbox"/> 9a Could not be determined due to matrix interference	
10. Were samples received within holding time?	<input checked="" type="checkbox"/>			<input type="checkbox"/> 10a Holding time expired	
11. For rad samples, was sample activity info. provided?			<input checked="" type="checkbox"/>	<input type="checkbox"/> Incomplete information	
12. For 1613B water samples is pH<9?			<input checked="" type="checkbox"/>	If no, was pH adjusted to pH 7 - 9 with sulfuric acid?	
13. Are the shipping containers intact?	<input checked="" type="checkbox"/>			<input type="checkbox"/> 13a Leaking <input type="checkbox"/> 13b Other:	
14. Was COC relinquished? (Signed/Dated/Timed)	<input checked="" type="checkbox"/>			<input type="checkbox"/> 14a Not relinquished	
15. Are tests/parameters listed for each sample?	<input checked="" type="checkbox"/>			<input type="checkbox"/> 15a Incomplete information	
16. Is the matrix of the samples noted?	<input checked="" type="checkbox"/>			<input type="checkbox"/> 15a Incomplete information	
17. Is the date/time of sample collection noted?	<input checked="" type="checkbox"/>			<input type="checkbox"/> 15a Incomplete information	
18. Is the client and project name/# identified?	<input checked="" type="checkbox"/>			<input type="checkbox"/> 15a Incomplete information	
19. Was the sampler identified on the COC?	<input checked="" type="checkbox"/>				
Quote #: <u>89041</u> PM Instructions: <u>N4</u>					

QA026R22.doc, 012811

Date: 7/19/11

Sample Receiving Associate: [Signature]