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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

Chris Bittner
Utah Division of Water Quality
PO Box 144870
SLC, UT 84114
TEL: (801) 536-4300

RE: MP 44.9

Dear Chris Bittner: Lab Set ID: 1303706

American West Analytical Laboratories received 16 sample(s) on 3/27/2013 for the analyses presented in the following report.

American West Analytical Laboratories (AWAL) is accredited by The National Environmental Laboratory Accreditation Program (NELAP) in Utah and Texas; and is state accredited in Colorado, Idaho, New Mexico, and Missouri.

All analyses were performed in accordance to the NELAP protocols unless noted otherwise. Accreditation scope documents are available upon request. If you have any questions or concerns regarding this report please feel free to call.

The abbreviation "Surr" found in organic reports indicates a surrogate compound that is intentionally added by the laboratory to determine sample injection, extraction, and/or purging efficiency. The "Reporting Limit" found on the report is equivalent to the practical quantitation limit (PQL). This is the minimum concentration that can be reported by the method referenced and the sample matrix. The reporting limit must not be confused with any regulatory limit. Analytical results are reported to three significant figures for quality control and calculation purposes.

Thank You,

Approved by: Kyle F. Gross

Digitally signed by Kyle F. Gross
DN: cn=Kyle F. Gross, o=AWAL, ou=AWAL-Laboratory Director, email=kyle@awal-labs.com, c=US
Date: 2013.04.02 14:31:27 -06'00'

Laboratory Director or designee

All analyses applicable to the CWA, SDWA, and RCRA are performed in accordance to NELAC protocols. Pertinent sampling information is located on the attached COC. This report is provided for the exclusive use of the addressee. Privileges of subsequent use of the name of this company or any member of its staff, or reproduction of this report in connection with the advertisement, promotion or sale of any product or process, or in connection with the re-publication of this report for any purpose other than for the addressee will be granted only on contact. This company accepts no responsibility except for the due performance of inspection and/or analysis in good faith and according to the rules of the trade and of science.

TPH (DRO) Case Narrative

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

Client:	Utah Division of Water Quality
Contact:	Chris Bittner
Project:	MP 44.9
Lab Set ID:	1303706

Sample Receipt Information:

Date of Receipt:	3/27/2013
Date of Collection:	3/27/2013
Sample Condition:	Intact
C-O-C Discrepancies:	None
Method:	SW-846 8015D /3510C
Analysis:	Total Petroleum Hydrocarbon (DRO - C10-28)

General Set Comments: Multiple samples exhibited TPH-DRO above the reporting limit.

Holding Time Requirements: The preparations and analyses of the samples were performed within respective holding times.

Analysis Requirements: The samples were prepared and/or analyzed following the methods stated on the analytical reports.

Analytical QC Requirements: All instrument calibration and calibration check requirements were met.

Batch QC Requirements: MB, LCS, MS, MSD, RPD, and Surrogates:

Method Blank (MB): No target analytes were detected above reporting limits, evaluated to MDL, indicating the procedure was free from contamination.

Laboratory Control Samples (LCS): All LCS recoveries were within control limits, indicating that the preparation and analysis were in control.

Matrix Spike / Matrix Spike Duplicate (MS/MSD): All percent recoveries and RPDs (Relative Percent Differences) were inside established limits, indicating no apparent matrix interferences.

Surrogates: All surrogate recoveries were within established limits.

Corrective Action: None required**.**

All analyses applicable to the CWA, SDWA, and RCRA are performed in accordance to NELAC protocols. Pertinent sampling information is located on the attached COC. This report is provided for the exclusive use of the addressee. Privileges of subsequent use of the name of this company or any member of its staff, or reproduction of this report in connection with the advertisement, promotion or sale of any product or process, or in connection with the re-publication of this report for any purpose other than for the addressee will be granted only on contact. This company accepts no responsibility except for the due performance of inspection and/or analysis in good faith and according to the rules of the trade and of science.

Semivolatile Case Narrative

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

Client:	Utah Division of Water Quality
Contact:	Chris Bittner
Project:	MP 44.9
Lab Set ID:	1303706

Sample Receipt Information:

Date of Receipt:	3/27/2013
Date of Collection:	3/27/2013
Sample Condition:	Intact
C-O-C Discrepancies:	None
Method:	SW-846 8270D/3510C
Analysis:	Semivolatile Organics

General Set Comments: Multiple analytes were observed above reporting limits. The samples were analyzed for TICs.

Holding Time Requirements: The preparations and analyses of the samples were performed within respective holding times.

Preparation Requirements: The samples were prepared and analyzed following the methods stated on the analytical reports.

Analytical QC Requirements: All instrument calibration and calibration check requirements were met. All internal standard recoveries met method criterion.

Batch QC Requirements: MB, LCS, MS, MSD, RPD, and Surrogates:

Method Blanks: No target analytes were detected above reporting limits, indicating that the procedure was free from contamination.

Laboratory Control Sample / Laboratory Control Sample Duplicate (LCS/LCSD): All LCS percent recoveries were within control limits, indicating that the preparation and analysis were in control.

Matrix Spike / Matrix Spike Duplicate (MS/MSD): All percent recoveries were inside established limits, with the following exceptions: On sample 1306706-004B, the Relative Percent Differences (RPDs) for 2-Chloronaphthalene was outside of its control limit due to suspected sample non-homogeneity or sample matrix interference.

Surrogates: All surrogate recoveries were within established limits.

Corrective Action: None required**.**

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Volatile Case Narrative

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

Client:	Utah Division of Water Quality
Contact:	Chris Bittner
Project:	MP 44.9
Lab Set ID:	1303706

Sample Receipt Information:

Date of Receipt:	3/27/2013
Date of Collection:	3/27/2013
Sample Condition:	Intact
C-O-C Discrepancies:	None
Method:	SW-846 8260C/5030C
Analysis:	Volatile Organic Compounds

General Set Comments: Multiple target analytes were observed above reporting limits.

Holding Time and Preservation Requirements: All samples were received in appropriate containers and properly preserved. The analysis and preparation of all samples were performed within the method holding times following the methods stated on the analytical reports.

Analytical QC Requirements: All instrument calibration and calibration check requirements were met. All internal standard recoveries met method criterion.

Batch QC Requirements: MB, LCS, MS, MSD, RPD, and Surrogates:

Method Blanks (MBs): No target analytes were detected above reporting limits, indicating that the procedure was free from contamination.

Laboratory Control Sample (LCSs): All LCS recoveries were within control limits, indicating that the preparation and analysis were in control.

Matrix Spike / Matrix Spike Duplicate (MS/MSD): All percent recoveries and RPDs (Relative Percent Differences) were inside established limits, indicating no apparent matrix interferences.

Surrogates: All surrogate recoveries were within established limits.

Corrective Action: None required.

All analyses applicable to the CWA, SDWA, and RCRA are performed in accordance to NELAC protocols. Pertinent sampling information is located on the attached COC. This report is provided for the exclusive use of the addressee. Privileges of subsequent use of the name of this company or any member of its staff, or reproduction of this report in connection with the advertisement, promotion or sale of any product or process, or in connection with the re-publication of this report for any purpose other than for the addressee will be granted only on contact. This company accepts no responsibility except for the due performance of inspection and/or analysis in good faith and according to the rules of the trade and of science.

ORGANIC ANALYTICAL REPORT

Client: Utah Division of Water Quality **Contact:** Chris Bittner
Project: MP 44.9
Lab Sample ID: 1303706-001C
Client Sample ID: East of I-15 / 4920392
Collection Date: 3/27/2013 900h
Received Date: 3/27/2013 1554h

Analytical Results TPH-DRO (C10-C28) by GC/FID Method 8015D/3510C

Analyzed: 3/28/2013 824h **Extracted:** 3/27/2013 1753h
Units: mg/L **Dilution Factor:** 1 **Method:** SW8015D

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Diesel Range Organics (DRO) (C10-C28)	68476-34-6	0.500	< 0.500	

Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 4-Bromofluorobenzene	460-00-4	0.161	0.4000	40.3	10-190	

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ORGANIC ANALYTICAL REPORT

Client: Utah Division of Water Quality **Contact:** Chris Bittner
Project: MP 44.9
Lab Sample ID: 1303706-002C
Client Sample ID: South Marina / 4920495
Collection Date: 3/27/2013 930h
Received Date: 3/27/2013 1554h

Analytical Results TPH-DRO (C10-C28) by GC/FID Method 8015D/3510C

Analyzed: 3/28/2013 922h **Extracted:** 3/27/2013 1753h
Units: mg/L **Dilution Factor:** 1 **Method:** SW8015D

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Diesel Range Organics (DRO) (C10-C28)	68476-34-6	0.500	< 0.500	

Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 4-Bromofluorobenzene	460-00-4	0.126	0.4000	31.4	10-190	

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ORGANIC ANALYTICAL REPORT

Client: Utah Division of Water Quality **Contact:** Chris Bittner
Project: MP 44.9
Lab Sample ID: 1303706-003C
Client Sample ID: North Boom / 4920397
Collection Date: 3/27/2013 1030h
Received Date: 3/27/2013 1554h

Analytical Results TPH-DRO (C10-C28) by GC/FID Method 8015D/3510C

Analyzed: 3/28/2013 941h **Extracted:** 3/27/2013 1753h
Units: mg/L **Dilution Factor:** 1 **Method:** SW8015D

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Diesel Range Organics (DRO) (C10-C28)	68476-34-6	0.500	< 0.500	

Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 4-Bromofluorobenzene	460-00-4	0.110	0.4000	27.5	10-190	

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ORGANIC ANALYTICAL REPORT

Client: Utah Division of Water Quality **Contact:** Chris Bittner
Project: MP 44.9
Lab Sample ID: 1303706-004C
Client Sample ID: W Boom 5 / 4920499
Collection Date: 3/27/2013 1050h
Received Date: 3/27/2013 1554h

Analytical Results TPH-DRO (C10-C28) by GC/FID Method 8015D/3510C

Analyzed: 3/28/2013 1000h **Extracted:** 3/27/2013 1753h
Units: mg/L **Dilution Factor:** 1 **Method:** SW8015D

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Diesel Range Organics (DRO) (C10-C28)	68476-34-6	0.500	< 0.500	

Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 4-Bromofluorobenzene	460-00-4	0.142	0.4000	35.5	10-190	

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ORGANIC ANALYTICAL REPORT

Client: Utah Division of Water Quality **Contact:** Chris Bittner
Project: MP 44.9
Lab Sample ID: 1303706-005C
Client Sample ID: W Boom 4 / 4920498
Collection Date: 3/27/2013 1100h
Received Date: 3/27/2013 1554h

Analytical Results TPH-DRO (C10-C28) by GC/FID Method 8015D/3510C

Analyzed: 3/28/2013 1020h **Extracted:** 3/27/2013 1753h
Units: mg/L **Dilution Factor:** 1 **Method:** SW8015D

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Diesel Range Organics (DRO) (C10-C28)	68476-34-6	0.500	< 0.500	

Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 4-Bromofluorobenzene	460-00-4	0.151	0.4000	37.8	10-190	

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ORGANIC ANALYTICAL REPORT

Client: Utah Division of Water Quality **Contact:** Chris Bittner
Project: MP 44.9
Lab Sample ID: 1303706-006C
Client Sample ID: W Boom 3 / 4920497
Collection Date: 3/27/2013 1120h
Received Date: 3/27/2013 1554h

Analytical Results TPH-DRO (C10-C28) by GC/FID Method 8015D/3510C

Analyzed: 3/28/2013 1039h **Extracted:** 3/27/2013 1753h
Units: mg/L **Dilution Factor:** 1 **Method:** SW8015D

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Diesel Range Organics (DRO) (C10-C28)	68476-34-6	0.500	< 0.500	

Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 4-Bromofluorobenzene	460-00-4	0.145	0.4000	36.3	10-190	

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ORGANIC ANALYTICAL REPORT

Client: Utah Division of Water Quality **Contact:** Chris Bittner
Project: MP 44.9
Lab Sample ID: 1303706-007C
Client Sample ID: W Boom 2 / 4920496
Collection Date: 3/27/2013 1130h
Received Date: 3/27/2013 1554h

Analytical Results TPH-DRO (C10-C28) by GC/FID Method 8015D/3510C

Analyzed: 3/28/2013 1750h **Extracted:** 3/27/2013 1753h
Units: mg/L **Dilution Factor:** 1 **Method:** SW8015D

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Diesel Range Organics (DRO) (C10-C28)	68476-34-6	0.500	< 0.500	

Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 4-Bromofluorobenzene	460-00-4	0.126	0.4000	31.6	10-190	

American West
ANALYTICAL LABORATORIES

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ORGANIC ANALYTICAL REPORT

Client: Utah Division of Water Quality **Contact:** Chris Bittner
Project: MP 44.9
Lab Sample ID: 1303706-008C
Client Sample ID: W Boom 1 / 4920396
Collection Date: 3/27/2013 1140h
Received Date: 3/27/2013 1554h

Analytical Results TPH-DRO (C10-C28) by GC/FID Method 8015D/3510C

Analyzed: 3/28/2013 1809h **Extracted:** 3/27/2013 1753h
Units: mg/L **Dilution Factor:** 1 **Method:** SW8015D

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Diesel Range Organics (DRO) (C10-C28)	68476-34-6	0.500	**2.98**	

Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 4-Bromofluorobenzene	460-00-4	0.140	0.4000	35.0	10-190	

American West
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ORGANIC ANALYTICAL REPORT

Client: Utah Division of Water Quality **Contact:** Chris Bittner
Project: MP 44.9
Lab Sample ID: 1303706-009C
Client Sample ID: 50' From 0397 / 4920508
Collection Date: 3/27/2013 1040h
Received Date: 3/27/2013 1554h

Analytical Results TPH-DRO (C10-C28) by GC/FID Method 8015D/3510C

Analyzed: 3/28/2013 1828h **Extracted:** 3/27/2013 1753h
Units: mg/L **Dilution Factor:** 1 **Method:** SW8015D

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Diesel Range Organics (DRO) (C10-C28)	68476-34-6	0.500	< 0.500	

Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 4-Bromofluorobenzene	460-00-4	0.155	0.4000	38.7	10-190	

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ORGANIC ANALYTICAL REPORT

Client: Utah Division of Water Quality **Contact:** Chris Bittner
Project: MP 44.9
Lab Sample ID: 1303706-010C
Client Sample ID: 50' From 0498 / 4920502
Collection Date: 3/27/2013 1110h
Received Date: 3/27/2013 1554h

Analytical Results TPH-DRO (C10-C28) by GC/FID Method 8015D/3510C

Analyzed: 3/28/2013 1848h **Extracted:** 3/27/2013 1753h
Units: mg/L **Dilution Factor:** 1 **Method:** SW8015D

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Diesel Range Organics (DRO) (C10-C28)	68476-34-6	0.588	< 0.588	

Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 4-Bromofluorobenzene	460-00-4	0.215	0.4706	45.6	10-190	

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ORGANIC ANALYTICAL REPORT

Client: Utah Division of Water Quality **Contact:** Chris Bittner
Project: MP 44.9
Lab Sample ID: 1303706-011C
Client Sample ID: 50' From 0396 / 4920505
Collection Date: 3/27/2013 1150h
Received Date: 3/27/2013 1554h

Analytical Results TPH-DRO (C10-C28) by GC/FID Method 8015D/3510C

Analyzed: 3/28/2013 1907h **Extracted:** 3/27/2013 1753h
Units: mg/L **Dilution Factor:** 1 **Method:** SW8015D

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Diesel Range Organics (DRO) (C10-C28)	68476-34-6	0.500	< 0.500	

Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 4-Bromofluorobenzene	460-00-4	0.167	0.4000	41.7	10-190	

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ORGANIC ANALYTICAL REPORT

Client: Utah Division of Water Quality **Contact:** Chris Bittner
Project: MP 44.9
Lab Sample ID: 1303706-014C
Client Sample ID: East of Boom / 4920395
Collection Date: 3/27/2013 1345h
Received Date: 3/27/2013 1554h

Analytical Results TPH-DRO (C10-C28) by GC/FID Method 8015D/3510C

Analyzed: 3/28/2013 1927h **Extracted:** 3/27/2013 1753h
Units: mg/L **Dilution Factor:** 1 **Method:** SW8015D

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Diesel Range Organics (DRO) (C10-C28)	68476-34-6	0.500	**1.67**	

Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 4-Bromofluorobenzene	460-00-4	0.183	0.4000	45.9	10-190	

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ORGANIC ANALYTICAL REPORT

Client: Utah Division of Water Quality **Contact:** Chris Bittner
Project: MP 44.9
Lab Sample ID: 1303706-015C
Client Sample ID: Between Weirs / 4920394
Collection Date: 3/27/2013 1400h
Received Date: 3/27/2013 1554h

Analytical Results TPH-DRO (C10-C28) by GC/FID Method 8015D/3510C

Analyzed: 3/28/2013 1946h **Extracted:** 3/27/2013 1753h
Units: mg/L **Dilution Factor:** 1 **Method:** SW8015D

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Diesel Range Organics (DRO) (C10-C28)	68476-34-6	0.500	**8.29**	

Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 4-Bromofluorobenzene	460-00-4	0.143	0.4000	35.8	10-190	

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ANALYTICAL LABORATORIES

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ORGANIC ANALYTICAL REPORT

Client: Utah Division of Water Quality **Contact:** Chris Bittner
Project: MP 44.9
Lab Sample ID: 1303706-016C
Client Sample ID: Between Weirs Dup / 4920394
Collection Date: 3/27/2013 1410h
Received Date: 3/27/2013 1554h

Analytical Results TPH-DRO (C10-C28) by GC/FID Method 8015D/3510C

Analyzed: 3/28/2013 2005h **Extracted:** 3/27/2013 1753h
Units: mg/L **Dilution Factor:** 1 **Method:** SW8015D

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Diesel Range Organics (DRO) (C10-C28)	68476-34-6	0.500	**8.25**	

Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 4-Bromofluorobenzene	460-00-4	0.159	0.4000	39.7	10-190	

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ORGANIC ANALYTICAL REPORT

Client: Utah Division of Water Quality **Contact:** Chris Bittner
Project: MP 44.9
Lab Sample ID: 1303706-001B
Client Sample ID: East of I-15 / 4920392
Collection Date: 3/27/2013 900h
Received Date: 3/27/2013 1554h

Analytical Results SVOA PNA SIM List by GC/MS Method 8270D/3510C

Analyzed: 4/1/2013 1221h **Extracted:** 3/28/2013 807h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8270D

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
1-Methylnaphthalene	90-12-0	0.100	< 0.100	
2-Methylnaphthalene	91-57-6	0.100	< 0.100	
Acenaphthene	83-32-9	0.100	< 0.100	
Acenaphthylene	208-96-8	0.100	< 0.100	
Anthracene	120-12-7	0.100	< 0.100	
Benz(a)anthracene	56-55-3	0.100	< 0.100	
Benzo(a)pyrene	50-32-8	0.100	**0.260**	
Benzo(b)fluoranthene	205-99-2	0.100	< 0.100	
Benzo(g,h,i)perylene	191-24-2	0.100	< 0.100	
Benzo(k)fluoranthene	207-08-9	0.100	< 0.100	
Chrysene	218-01-9	0.100	< 0.100	
Dibenz(a,h)anthracene	53-70-3	0.100	< 0.100	
Fluoranthene	206-44-0	0.100	< 0.100	
Fluorene	86-73-7	0.100	< 0.100	
Indene	95-13-6	0.100	< 0.100	
Indeno(1,2,3-cd)pyrene	193-39-5	0.100	< 0.100	
Naphthalene	91-20-3	0.100	< 0.100	
Phenanthrene	85-01-8	0.100	< 0.100	
Pyrene	129-00-0	0.100	**0.200**	

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ORGANIC ANALYTICAL REPORT

Client: Utah Division of Water Quality **Contact:** Chris Bittner
Project: MP 44.9
Lab Sample ID: 1303706-002B
Client Sample ID: South Marina / 4920495
Collection Date: 3/27/2013 930h
Received Date: 3/27/2013 1554h

Analytical Results SVOA PNA SIM List by GC/MS Method 8270D/3510C

Analyzed: 4/1/2013 1248h **Extracted:** 3/28/2013 807h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8270D

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
1-Methylnaphthalene	90-12-0	0.100	< 0.100	
2-Methylnaphthalene	91-57-6	0.100	< 0.100	
Acenaphthene	83-32-9	0.100	< 0.100	
Acenaphthylene	208-96-8	0.100	< 0.100	
Anthracene	120-12-7	0.100	< 0.100	
Benz(a)anthracene	56-55-3	0.100	< 0.100	
Benzo(a)pyrene	50-32-8	0.100	< 0.100	
Benzo(b)fluoranthene	205-99-2	0.100	< 0.100	
Benzo(g,h,i)perylene	191-24-2	0.100	< 0.100	
Benzo(k)fluoranthene	207-08-9	0.100	< 0.100	
Chrysene	218-01-9	0.100	< 0.100	
Dibenz(a,h)anthracene	53-70-3	0.100	< 0.100	
Fluoranthene	206-44-0	0.100	< 0.100	
Fluorene	86-73-7	0.100	< 0.100	
Indene	95-13-6	0.100	< 0.100	
Indeno(1,2,3-cd)pyrene	193-39-5	0.100	< 0.100	
Naphthalene	91-20-3	0.100	< 0.100	
Phenanthrene	85-01-8	0.100	< 0.100	
Pyrene	129-00-0	0.100	< 0.100	

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ORGANIC ANALYTICAL REPORT

Client: Utah Division of Water Quality **Contact:** Chris Bittner
Project: MP 44.9
Lab Sample ID: 1303706-003B
Client Sample ID: North Boom / 4920397
Collection Date: 3/27/2013 1030h
Received Date: 3/27/2013 1554h

Analytical Results SVOA PNA SIM List by GC/MS Method 8270D/3510C

Analyzed: 4/1/2013 1314h **Extracted:** 3/28/2013 807h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8270D

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
1-Methylnaphthalene	90-12-0	0.100	< 0.100	
2-Methylnaphthalene	91-57-6	0.100	< 0.100	
Acenaphthene	83-32-9	0.100	< 0.100	
Acenaphthylene	208-96-8	0.100	< 0.100	
Anthracene	120-12-7	0.100	< 0.100	
Benz(a)anthracene	56-55-3	0.100	< 0.100	
Benzo(a)pyrene	50-32-8	0.100	< 0.100	
Benzo(b)fluoranthene	205-99-2	0.100	< 0.100	
Benzo(g,h,i)perylene	191-24-2	0.100	< 0.100	
Benzo(k)fluoranthene	207-08-9	0.100	< 0.100	
Chrysene	218-01-9	0.100	< 0.100	
Dibenz(a,h)anthracene	53-70-3	0.100	< 0.100	
Fluoranthene	206-44-0	0.100	< 0.100	
Fluorene	86-73-7	0.100	< 0.100	
Indene	95-13-6	0.100	< 0.100	
Indeno(1,2,3-cd)pyrene	193-39-5	0.100	< 0.100	
Naphthalene	91-20-3	0.100	< 0.100	
Phenanthrene	85-01-8	0.100	< 0.100	
Pyrene	129-00-0	0.100	< 0.100	

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ORGANIC ANALYTICAL REPORT

Client: Utah Division of Water Quality **Contact:** Chris Bittner
Project: MP 44.9
Lab Sample ID: 1303706-004B
Client Sample ID: W Boom 5 / 4920499
Collection Date: 3/27/2013 1050h
Received Date: 3/27/2013 1554h

Analytical Results SVOA PNA SIM List by GC/MS Method 8270D/3510C

Analyzed: 4/1/2013 1341h **Extracted:** 3/28/2013 807h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8270D

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
1-Methylnaphthalene	90-12-0	0.100	< 0.100	
2-Methylnaphthalene	91-57-6	0.100	< 0.100	
Acenaphthene	83-32-9	0.100	< 0.100	
Acenaphthylene	208-96-8	0.100	< 0.100	
Anthracene	120-12-7	0.100	< 0.100	
Benz(a)anthracene	56-55-3	0.100	< 0.100	
Benzo(a)pyrene	50-32-8	0.100	< 0.100	
Benzo(b)fluoranthene	205-99-2	0.100	< 0.100	
Benzo(g,h,i)perylene	191-24-2	0.100	< 0.100	
Benzo(k)fluoranthene	207-08-9	0.100	< 0.100	
Chrysene	218-01-9	0.100	< 0.100	
Dibenz(a,h)anthracene	53-70-3	0.100	< 0.100	
Fluoranthene	206-44-0	0.100	< 0.100	
Fluorene	86-73-7	0.100	< 0.100	
Indene	95-13-6	0.100	< 0.100	
Indeno(1,2,3-cd)pyrene	193-39-5	0.100	< 0.100	
Naphthalene	91-20-3	0.100	< 0.100	
Phenanthrene	85-01-8	0.100	< 0.100	
Pyrene	129-00-0	0.100	< 0.100	

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ORGANIC ANALYTICAL REPORT

Client: Utah Division of Water Quality **Contact:** Chris Bittner
Project: MP 44.9
Lab Sample ID: 1303706-005B
Client Sample ID: W Boom 4 / 4920498
Collection Date: 3/27/2013 1100h
Received Date: 3/27/2013 1554h

Analytical Results SVOA PNA SIM List by GC/MS Method 8270D/3510C

Analyzed: 4/1/2013 1502h **Extracted:** 3/28/2013 807h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8270D

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
1-Methylnaphthalene	90-12-0	0.100	< 0.100	
2-Methylnaphthalene	91-57-6	0.100	< 0.100	
Acenaphthene	83-32-9	0.100	< 0.100	
Acenaphthylene	208-96-8	0.100	< 0.100	
Anthracene	120-12-7	0.100	< 0.100	
Benz(a)anthracene	56-55-3	0.100	< 0.100	
Benzo(a)pyrene	50-32-8	0.100	< 0.100	
Benzo(b)fluoranthene	205-99-2	0.100	< 0.100	
Benzo(g,h,i)perylene	191-24-2	0.100	< 0.100	
Benzo(k)fluoranthene	207-08-9	0.100	< 0.100	
Chrysene	218-01-9	0.100	< 0.100	
Dibenz(a,h)anthracene	53-70-3	0.100	< 0.100	
Fluoranthene	206-44-0	0.100	< 0.100	
Fluorene	86-73-7	0.100	< 0.100	
Indene	95-13-6	0.100	< 0.100	
Indeno(1,2,3-cd)pyrene	193-39-5	0.100	< 0.100	
Naphthalene	91-20-3	0.100	< 0.100	
Phenanthrene	85-01-8	0.100	< 0.100	
Pyrene	129-00-0	0.100	< 0.100	

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ORGANIC ANALYTICAL REPORT

Client: Utah Division of Water Quality **Contact:** Chris Bittner
Project: MP 44.9
Lab Sample ID: 1303706-006B
Client Sample ID: W Boom 3 / 4920497
Collection Date: 3/27/2013 1120h
Received Date: 3/27/2013 1554h

Analytical Results SVOA PNA SIM List by GC/MS Method 8270D/3510C

Analyzed: 4/1/2013 1529h **Extracted:** 3/28/2013 807h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8270D

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
1-Methylnaphthalene	90-12-0	0.100	< 0.100	
2-Methylnaphthalene	91-57-6	0.100	< 0.100	
Acenaphthene	83-32-9	0.100	< 0.100	
Acenaphthylene	208-96-8	0.100	< 0.100	
Anthracene	120-12-7	0.100	< 0.100	
Benz(a)anthracene	56-55-3	0.100	< 0.100	
Benzo(a)pyrene	50-32-8	0.100	< 0.100	
Benzo(b)fluoranthene	205-99-2	0.100	< 0.100	
Benzo(g,h,i)perylene	191-24-2	0.100	< 0.100	
Benzo(k)fluoranthene	207-08-9	0.100	< 0.100	
Chrysene	218-01-9	0.100	< 0.100	
Dibenz(a,h)anthracene	53-70-3	0.100	< 0.100	
Fluoranthene	206-44-0	0.100	< 0.100	
Fluorene	86-73-7	0.100	< 0.100	
Indene	95-13-6	0.100	< 0.100	
Indeno(1,2,3-cd)pyrene	193-39-5	0.100	< 0.100	
Naphthalene	91-20-3	0.100	< 0.100	
Phenanthrene	85-01-8	0.100	< 0.100	
Pyrene	129-00-0	0.100	< 0.100	

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ORGANIC ANALYTICAL REPORT

Client: Utah Division of Water Quality **Contact:** Chris Bittner
Project: MP 44.9
Lab Sample ID: 1303706-007B
Client Sample ID: W Boom 2 / 4920496
Collection Date: 3/27/2013 1130h
Received Date: 3/27/2013 1554h

Analytical Results SVOA PNA SIM List by GC/MS Method 8270D/3510C

Analyzed: 4/1/2013 1555h **Extracted:** 3/28/2013 807h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8270D

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
1-Methylnaphthalene	90-12-0	0.100	< 0.100	
2-Methylnaphthalene	91-57-6	0.100	< 0.100	
Acenaphthene	83-32-9	0.100	< 0.100	
Acenaphthylene	208-96-8	0.100	< 0.100	
Anthracene	120-12-7	0.100	< 0.100	
Benz(a)anthracene	56-55-3	0.100	< 0.100	
Benzo(a)pyrene	50-32-8	0.100	< 0.100	
Benzo(b)fluoranthene	205-99-2	0.100	< 0.100	
Benzo(g,h,i)perylene	191-24-2	0.100	< 0.100	
Benzo(k)fluoranthene	207-08-9	0.100	< 0.100	
Chrysene	218-01-9	0.100	< 0.100	
Dibenz(a,h)anthracene	53-70-3	0.100	< 0.100	
Fluoranthene	206-44-0	0.100	< 0.100	
Fluorene	86-73-7	0.100	< 0.100	
Indene	95-13-6	0.100	< 0.100	
Indeno(1,2,3-cd)pyrene	193-39-5	0.100	< 0.100	
Naphthalene	91-20-3	0.100	< 0.100	
Phenanthrene	85-01-8	0.100	< 0.100	
Pyrene	129-00-0	0.100	< 0.100	

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ORGANIC ANALYTICAL REPORT

Client: Utah Division of Water Quality **Contact:** Chris Bittner
Project: MP 44.9
Lab Sample ID: 1303706-008B
Client Sample ID: W Boom 1 / 4920396
Collection Date: 3/27/2013 1140h
Received Date: 3/27/2013 1554h

Analytical Results SVOA PNA SIM List by GC/MS Method 8270D/3510C

Analyzed: 4/1/2013 1622h **Extracted:** 3/28/2013 807h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8270D

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Kyle F. Gross
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Jose Rocha
QA Officer

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
1-Methylnaphthalene	90-12-0	0.100	**1.60**	
2-Methylnaphthalene	91-57-6	0.100	**1.13**	
Acenaphthene	83-32-9	0.100	< 0.100	
Acenaphthylene	208-96-8	0.100	< 0.100	
Anthracene	120-12-7	0.100	< 0.100	
Benz(a)anthracene	56-55-3	0.100	< 0.100	
Benzo(a)pyrene	50-32-8	0.100	< 0.100	
Benzo(b)fluoranthene	205-99-2	0.100	< 0.100	
Benzo(g,h,i)perylene	191-24-2	0.100	< 0.100	
Benzo(k)fluoranthene	207-08-9	0.100	< 0.100	
Chrysene	218-01-9	0.100	< 0.100	
Dibenz(a,h)anthracene	53-70-3	0.100	< 0.100	
Fluoranthene	206-44-0	0.100	< 0.100	
Fluorene	86-73-7	0.100	< 0.100	
Indene	95-13-6	0.100	< 0.100	
Indeno(1,2,3-cd)pyrene	193-39-5	0.100	< 0.100	
Naphthalene	91-20-3	0.100	**0.640**	
Phenanthrene	85-01-8	0.100	< 0.100	
Pyrene	129-00-0	0.100	< 0.100	

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ORGANIC ANALYTICAL REPORT

Client: Utah Division of Water Quality **Contact:** Chris Bittner
Project: MP 44.9
Lab Sample ID: 1303706-009B
Client Sample ID: 50' From 0397 / 4920508
Collection Date: 3/27/2013 1040h
Received Date: 3/27/2013 1554h

Analytical Results SVOA PNA SIM List by GC/MS Method 8270D/3510C

Analyzed: 4/1/2013 1649h **Extracted:** 3/28/2013 807h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8270D

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
1-Methylnaphthalene	90-12-0	0.100	< 0.100	
2-Methylnaphthalene	91-57-6	0.100	< 0.100	
Acenaphthene	83-32-9	0.100	< 0.100	
Acenaphthylene	208-96-8	0.100	< 0.100	
Anthracene	120-12-7	0.100	< 0.100	
Benz(a)anthracene	56-55-3	0.100	< 0.100	
Benzo(a)pyrene	50-32-8	0.100	< 0.100	
Benzo(b)fluoranthene	205-99-2	0.100	< 0.100	
Benzo(g,h,i)perylene	191-24-2	0.100	< 0.100	
Benzo(k)fluoranthene	207-08-9	0.100	< 0.100	
Chrysene	218-01-9	0.100	< 0.100	
Dibenz(a,h)anthracene	53-70-3	0.100	< 0.100	
Fluoranthene	206-44-0	0.100	< 0.100	
Fluorene	86-73-7	0.100	< 0.100	
Indene	95-13-6	0.100	< 0.100	
Indeno(1,2,3-cd)pyrene	193-39-5	0.100	< 0.100	
Naphthalene	91-20-3	0.100	< 0.100	
Phenanthrene	85-01-8	0.100	< 0.100	
Pyrene	129-00-0	0.100	< 0.100	

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Jose Rocha
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ORGANIC ANALYTICAL REPORT

Client: Utah Division of Water Quality **Contact:** Chris Bittner
Project: MP 44.9
Lab Sample ID: 1303706-010B
Client Sample ID: 50' From 0498 / 4920502
Collection Date: 3/27/2013 1110h
Received Date: 3/27/2013 1554h

Analytical Results SVOA PNA SIM List by GC/MS Method 8270D/3510C

Analyzed: 4/1/2013 1716h **Extracted:** 3/28/2013 807h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8270D

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
1-Methylnaphthalene	90-12-0	0.100	< 0.100	
2-Methylnaphthalene	91-57-6	0.100	< 0.100	
Acenaphthene	83-32-9	0.100	< 0.100	
Acenaphthylene	208-96-8	0.100	< 0.100	
Anthracene	120-12-7	0.100	< 0.100	
Benz(a)anthracene	56-55-3	0.100	< 0.100	
Benzo(a)pyrene	50-32-8	0.100	< 0.100	
Benzo(b)fluoranthene	205-99-2	0.100	< 0.100	
Benzo(g,h,i)perylene	191-24-2	0.100	< 0.100	
Benzo(k)fluoranthene	207-08-9	0.100	< 0.100	
Chrysene	218-01-9	0.100	< 0.100	
Dibenz(a,h)anthracene	53-70-3	0.100	< 0.100	
Fluoranthene	206-44-0	0.100	< 0.100	
Fluorene	86-73-7	0.100	< 0.100	
Indene	95-13-6	0.100	< 0.100	
Indeno(1,2,3-cd)pyrene	193-39-5	0.100	< 0.100	
Naphthalene	91-20-3	0.100	< 0.100	
Phenanthrene	85-01-8	0.100	< 0.100	
Pyrene	129-00-0	0.100	< 0.100	

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ORGANIC ANALYTICAL REPORT

Client: Utah Division of Water Quality **Contact:** Chris Bittner
Project: MP 44.9
Lab Sample ID: 1303706-011B
Client Sample ID: 50' From 0396 / 4920505
Collection Date: 3/27/2013 1150h
Received Date: 3/27/2013 1554h

Analytical Results SVOA PNA SIM List by GC/MS Method 8270D/3510C

Analyzed: 4/1/2013 1743h **Extracted:** 3/28/2013 807h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8270D

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
1-Methylnaphthalene	90-12-0	0.100	< 0.100	
2-Methylnaphthalene	91-57-6	0.100	< 0.100	
Acenaphthene	83-32-9	0.100	< 0.100	
Acenaphthylene	208-96-8	0.100	< 0.100	
Anthracene	120-12-7	0.100	< 0.100	
Benz(a)anthracene	56-55-3	0.100	< 0.100	
Benzo(a)pyrene	50-32-8	0.100	< 0.100	
Benzo(b)fluoranthene	205-99-2	0.100	< 0.100	
Benzo(g,h,i)perylene	191-24-2	0.100	< 0.100	
Benzo(k)fluoranthene	207-08-9	0.100	< 0.100	
Chrysene	218-01-9	0.100	< 0.100	
Dibenz(a,h)anthracene	53-70-3	0.100	< 0.100	
Fluoranthene	206-44-0	0.100	< 0.100	
Fluorene	86-73-7	0.100	< 0.100	
Indene	95-13-6	0.100	< 0.100	
Indeno(1,2,3-cd)pyrene	193-39-5	0.100	< 0.100	
Naphthalene	91-20-3	0.100	< 0.100	
Phenanthrene	85-01-8	0.100	< 0.100	
Pyrene	129-00-0	0.100	< 0.100	

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ORGANIC ANALYTICAL REPORT

Client: Utah Division of Water Quality **Contact:** Chris Bittner
Project: MP 44.9
Lab Sample ID: 1303706-014B
Client Sample ID: East of Boom / 4920395
Collection Date: 3/27/2013 1345h
Received Date: 3/27/2013 1554h

Analytical Results SVOA PNA SIM List by GC/MS Method 8270D/3510C

Analyzed: 4/1/2013 2050h **Extracted:** 3/28/2013 807h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8270D

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
1-Methylnaphthalene	90-12-0	0.105	**1.09**	
2-Methylnaphthalene	91-57-6	0.105	**0.758**	
Acenaphthene	83-32-9	0.105	< 0.105	
Acenaphthylene	208-96-8	0.105	< 0.105	
Anthracene	120-12-7	0.105	< 0.105	
Benz(a)anthracene	56-55-3	0.105	< 0.105	
Benzo(a)pyrene	50-32-8	0.105	< 0.105	
Benzo(b)fluoranthene	205-99-2	0.105	< 0.105	
Benzo(g,h,i)perylene	191-24-2	0.105	< 0.105	
Benzo(k)fluoranthene	207-08-9	0.105	< 0.105	
Chrysene	218-01-9	0.105	< 0.105	
Dibenz(a,h)anthracene	53-70-3	0.105	< 0.105	
Fluoranthene	206-44-0	0.105	< 0.105	
Fluorene	86-73-7	0.105	< 0.105	
Indene	95-13-6	0.105	< 0.105	
Indeno(1,2,3-cd)pyrene	193-39-5	0.105	< 0.105	
Naphthalene	91-20-3	0.105	**0.421**	
Phenanthrene	85-01-8	0.105	< 0.105	
Pyrene	129-00-0	0.105	< 0.105	

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ORGANIC ANALYTICAL REPORT

Client: Utah Division of Water Quality **Contact:** Chris Bittner
Project: MP 44.9
Lab Sample ID: 1303706-015B
Client Sample ID: Between Weirs / 4920394
Collection Date: 3/27/2013 1400h
Received Date: 3/27/2013 1554h

Analytical Results SVOA PNA SIM List by GC/MS Method 8270D/3510C

Analyzed: 4/1/2013 2116h **Extracted:** 3/28/2013 1200h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8270D

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Compound	CAS Number	Reporting Limit	Analytical Result	Qual
1-Methylnaphthalene	90-12-0	0.100	**3.59**	
2-Methylnaphthalene	91-57-6	0.100	**2.42**	
Acenaphthene	83-32-9	0.100	< 0.100	
Acenaphthylene	208-96-8	0.100	< 0.100	
Anthracene	120-12-7	0.100	< 0.100	
Benz(a)anthracene	56-55-3	0.100	< 0.100	
Benzo(a)pyrene	50-32-8	0.100	< 0.100	
Benzo(b)fluoranthene	205-99-2	0.100	< 0.100	
Benzo(g,h,i)perylene	191-24-2	0.100	< 0.100	
Benzo(k)fluoranthene	207-08-9	0.100	< 0.100	
Chrysene	218-01-9	0.100	< 0.100	
Dibenz(a,h)anthracene	53-70-3	0.100	< 0.100	
Fluoranthene	206-44-0	0.100	< 0.100	
Fluorene	86-73-7	0.100	< 0.100	
Indene	95-13-6	0.100	< 0.100	
Indeno(1,2,3-cd)pyrene	193-39-5	0.100	< 0.100	
Naphthalene	91-20-3	0.100	**1.40**	
Phenanthrene	85-01-8	0.100	< 0.100	
Pyrene	129-00-0	0.100	< 0.100	

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ORGANIC ANALYTICAL REPORT

Client: Utah Division of Water Quality **Contact:** Chris Bittner
Project: MP 44.9
Lab Sample ID: 1303706-016B
Client Sample ID: Between Weirs Dup / 4920394
Collection Date: 3/27/2013 1410h
Received Date: 3/27/2013 1554h

Analytical Results SVOA PNA SIM List by GC/MS Method 8270D/3510C

Analyzed: 4/1/2013 2143h **Extracted:** 3/28/2013 1200h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8270D

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QA Officer

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
1-Methylnaphthalene	90-12-0	0.100	**4.05**	
2-Methylnaphthalene	91-57-6	0.100	**2.73**	
Acenaphthene	83-32-9	0.100	< 0.100	
Acenaphthylene	208-96-8	0.100	< 0.100	
Anthracene	120-12-7	0.100	< 0.100	
Benz(a)anthracene	56-55-3	0.100	< 0.100	
Benzo(a)pyrene	50-32-8	0.100	< 0.100	
Benzo(b)fluoranthene	205-99-2	0.100	< 0.100	
Benzo(g,h,i)perylene	191-24-2	0.100	< 0.100	
Benzo(k)fluoranthene	207-08-9	0.100	< 0.100	
Chrysene	218-01-9	0.100	< 0.100	
Dibenz(a,h)anthracene	53-70-3	0.100	< 0.100	
Fluoranthene	206-44-0	0.100	< 0.100	
Fluorene	86-73-7	0.100	< 0.100	
Indene	95-13-6	0.100	< 0.100	
Indeno(1,2,3-cd)pyrene	193-39-5	0.100	< 0.100	
Naphthalene	91-20-3	0.100	**1.55**	
Phenanthrene	85-01-8	0.100	< 0.100	
Pyrene	129-00-0	0.100	< 0.100	

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ORGANIC ANALYTICAL REPORT

Client: Utah Division of Water Quality **Contact:** Chris Bittner
Project: MP 44.9
Lab Sample ID: 1303706-001B
Client Sample ID: East of I-15 / 4920392
Collection Date: 3/27/2013 900h
Received Date: 3/27/2013 1554h

Analytical Results SVOA List by GC/MS Method 8270D/3510C

Analyzed: 3/29/2013 1236h **Extracted:** 3/28/2013 807h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8270D

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Compound	CAS Number	Reporting Limit	Analytical Result	Qual
1,1´-Biphenyl	92-52-4	10.0	< 10.0	
1,2,4,5-Tetrachlorobenzene	95-94-3	10.0	< 10.0	
1,2,4-Trichlorobenzene	120-82-1	10.0	< 10.0	
1,2-Dichlorobenzene	95-50-1	10.0	< 10.0	
1,3,5-Trinitrobenzene	99-35-4	10.0	< 10.0	
1,3-Dichlorobenzene	541-73-1	10.0	< 10.0	
1,3-Dinitrobenzene	99-65-0	10.0	< 10.0	
1,4-Dichlorobenzene	106-46-7	10.0	< 10.0	
1,4-Dinitrobenzene	100-25-4	10.0	< 10.0	
1,4-Naphthoquinone	130-15-4	10.0	< 10.0	
1,4-Phenylenediamine	106-50-3	10.0	< 10.0	
1-Chloronaphthalene	90-13-1	10.0	< 10.0	
1-Methylnaphthalene	90-12-0	10.0	< 10.0	
1-Naphthylamine	134-32-7	10.0	< 10.0	
2,3,4,6-Tetrachlorophenol	58-90-2	10.0	< 10.0	
2,4,5-Trichlorophenol	95-95-4	10.0	< 10.0	
2,4,6-Trichlorophenol	88-06-2	10.0	< 10.0	
2,4-Dichlorophenol	120-83-2	10.0	< 10.0	
2,4-Dimethylphenol	105-67-9	10.0	< 10.0	
2,4-Dinitrophenol	51-28-5	10.0	< 10.0	
2,4-Dinitrotoluene	121-14-2	10.0	< 10.0	
2,6-Dichlorophenol	87-65-0	10.0	< 10.0	
2,6-Dinitrotoluene	606-20-2	10.0	< 10.0	
2-Acetylaminofluorene	53-96-3	10.0	< 10.0	
2-Chloronaphthalene	91-58-7	10.0	< 10.0	
2-Chlorophenol	95-57-8	10.0	< 10.0	
2-Methylnaphthalene	91-57-6	10.0	< 10.0	
2-Methylphenol	95-48-7	10.0	< 10.0	
2-Naphthylamine	91-59-8	10.0	< 10.0	
2-Nitroaniline	88-74-4	10.0	< 10.0	

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Lab Sample ID: 1303706-001B
Client Sample ID: East of I-15 / 4920392

Analyzed: 3/29/2013 1236h **Extracted:** 3/28/2013 807h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8270D

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
2-Nitrophenol	88-75-5	10.0	< 10.0	
2-Picoline	109-06-8	10.0	< 10.0	
3&4-Methylphenol		10.0	< 10.0	
3,3´-Dichlorobenzidine	91-94-1	10.0	< 10.0	
3,3´-Dimethylbenzidine	119-93-7	10.0	< 10.0	
3-Methylcholanthrene	56-49-5	10.0	< 10.0	
3-Nitroaniline	99-09-2	10.0	< 10.0	
4,6-Dinitro-2-methylphenol	534-52-1	10.0	< 10.0	
4-Aminobiphenyl	92-67-1	10.0	< 10.0	
4-Bromophenyl phenyl ether	101-55-3	10.0	< 10.0	
4-Chloro-3-methylphenol	59-50-7	10.0	< 10.0	
4-Chloroaniline	106-47-8	10.0	< 10.0	
4-Chlorophenyl phenyl ether	7005-72-3	10.0	< 10.0	
4-Nitroaniline	100-01-6	10.0	< 10.0	
4-Nitrophenol	100-02-7	10.0	< 10.0	
5-Nitro-o-toluidine	99-55-8	10.0	< 10.0	
7,12-Dimethylbenz(a)anthracene	57-97-6	10.0	< 10.0	
a,a-Dimethylphenethylamine	122-09-8	10.0	< 10.0	
Acenaphthene	83-32-9	10.0	< 10.0	
Acenaphthylene	208-96-8	10.0	< 10.0	
Acetophenone	98-86-2	10.0	< 10.0	
alpha-Terpineol	98-55-5	10.0	< 10.0	
Aniline	62-53-3	10.0	< 10.0	
Anthracene	120-12-7	10.0	< 10.0	
Aramite	140-57-8	10.0	< 10.0	
Atrazine	1912-24-9	10.0	< 10.0	
Azobenzene	103-33-3	10.0	< 10.0	
Benz(a)anthracene	56-55-3	10.0	< 10.0	
Benzaldehyde	100-52-7	10.0	< 10.0	
Benzidine	92-87-5	10.0	< 10.0	
Benzo(a)pyrene	50-32-8	10.0	< 10.0	
Benzo(b)fluoranthene	205-99-2	10.0	< 10.0	
Benzo(g,h,i)perylene	191-24-2	10.0	< 10.0	
Benzo(k)fluoranthene	207-08-9	10.0	< 10.0	
Benzoic acid	65-85-0	20.0	< 20.0	
Benzyl alcohol	100-51-6	10.0	< 10.0	
Bis(2-chloroethoxy)methane	111-91-1	10.0	< 10.0	

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

Lab Sample ID: 1303706-001B
Client Sample ID: East of I-15 / 4920392

Analyzed: 3/29/2013 1236h **Extracted:** 3/28/2013 807h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8270D

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Bis(2-chloroethyl) ether	111-44-4	10.0	< 10.0	
Bis(2-chloroisopropyl) ether	108-60-1	10.0	< 10.0	
Bis(2-ethylhexyl) phthalate	117-81-7	10.0	< 10.0	
bis(2-ethylhexyl)adipate	103-23-1	10.0	< 10.0	
Butyl benzyl phthalate	85-68-7	10.0	< 10.0	
Caprolactam	105-60-2	10.0	< 10.0	
Carbazole	86-74-8	10.0	< 10.0	
Chlorobenzilate	510-15-6	10.0	< 10.0	
Chrysene	218-01-9	10.0	< 10.0	
Di-n-butyl phthalate	84-74-2	10.0	< 10.0	
Di-n-octyl phthalate	117-84-0	10.0	< 10.0	
Diallate (cis or trans)	2303-16-4	10.0	< 10.0	
Dibenz(a,h)anthracene	53-70-3	10.0	< 10.0	
Dibenzofuran	132-64-9	10.0	< 10.0	
Diethyl phthalate	84-66-2	10.0	< 10.0	
Dimethoate	60-51-5	10.0	< 10.0	
Dimethyl phthalate	131-11-3	10.0	< 10.0	
Dimethylaminoazobenzene	60-11-7	10.0	< 10.0	
Dinoseb	88-85-7	10.0	< 10.0	
Diphenylamine	122-39-4	10.0	< 10.0	
Disulfoton	298-04-4	10.0	< 10.0	
Ethyl methanesulfonate	62-50-0	10.0	< 10.0	
Famphur	52-85-7	10.0	< 10.0	
Fluoranthene	206-44-0	10.0	< 10.0	
Fluorene	86-73-7	10.0	< 10.0	
Hexachlorobenzene	118-74-1	10.0	< 10.0	
Hexachlorobutadiene	87-68-3	10.0	< 10.0	
Hexachlorocyclopentadiene	77-47-4	10.0	< 10.0	
Hexachloroethane	67-72-1	10.0	< 10.0	
Hexachlorophene	70-30-4	10.0	< 10.0	
Hexachloropropene	1888-71-7	10.0	< 10.0	
Indene	95-13-6	10.0	< 10.0	
Indeno(1,2,3-cd)pyrene	193-39-5	10.0	< 10.0	
Isodrin	465-73-6	10.0	< 10.0	
Isophorone	78-59-1	10.0	< 10.0	
Isosafrole	120-58-1	10.0	< 10.0	
Kepone	143-50-0	10.0	< 10.0	

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

Lab Sample ID: 1303706-001B
Client Sample ID: East of I-15 / 4920392

Analyzed: 3/29/2013 1236h **Extracted:** 3/28/2013 807h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8270D

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Methapyrilene	91-80-5	10.0	< 10.0	
Methyl methanesulfonate	66-27-3	10.0	< 10.0	
n-Decane	124-18-5	10.0	< 10.0	
N-Nitrosodi-n-butylamine	924-16-3	10.0	< 10.0	
N-Nitrosodiethylamine	55-18-5	10.0	< 10.0	
N-Nitrosodimethylamine	62-75-9	10.0	< 10.0	
N-Nitrosodiphenylamine	86-30-6	10.0	< 10.0	
N-Nitrosodi-n-propylamine	621-64-7	10.0	< 10.0	
N-Nitrosomethylethylamine	10595-95-6	10.0	< 10.0	
N-Nitrosomorpholine	59-89-2	10.0	< 10.0	
N-Nitrosopiperidine	100-75-4	10.0	< 10.0	
N-Nitrosopyrrolidine	930-55-2	10.0	< 10.0	
n-Octadecane	593-45-3	10.0	< 10.0	
Naphthalene	91-20-3	10.0	< 10.0	
Nitrobenzene	98-95-3	10.0	< 10.0	
Nitroquinoline-1-oxide	56-57-5	10.0	< 10.0	
O,O,O-Triethyl phosphorothioate	126-68-1	10.0	< 10.0	
o-Toluidine	95-53-4	10.0	< 10.0	
Parathion	56-38-2	10.0	< 10.0	
Methyl parathion	298-00-0	10.0	< 10.0	
Pentachlorobenzene	608-93-5	10.0	< 10.0	
Pentachloronitrobenzene	82-68-8	10.0	< 10.0	
Pentachlorophenol	87-86-5	10.0	< 10.0	
Phenacetin	62-44-2	10.0	< 10.0	
Phenanthrene	85-01-8	10.0	< 10.0	
Phenol	108-95-2	10.0	< 10.0	
Phorate	298-02-2	10.0	< 10.0	
Pronamide	23950-58-5	10.0	< 10.0	
Pyrene	129-00-0	10.0	< 10.0	
Pyridine	110-86-1	10.0	< 10.0	
Quinoline	91-22-5	10.0	< 10.0	
Safrole	94-59-7	10.0	< 10.0	
Tetraethyl dithiopyrophosphate	3689-24-5	10.0	< 10.0	
Thionazin	297-97-2	10.0	< 10.0	

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Jose Rocha
QA Officer

Lab Sample ID: 1303706-001B
Client Sample ID: East of I-15 / 4920392

Analyzed: 3/29/2013 1236h **Extracted:** 3/28/2013 807h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8270D

Compound	CAS Number	Reporting Limit	Analytical Result	Qual

Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 2,4,6-Tribromophenol	118-79-6	36.1	80.00	45.1	14-159	
Surr: 2-Fluorobiphenyl	321-60-8	16.7	40.00	41.8	10-124	
Surr: 2-Fluorophenol	367-12-4	11.6	80.00	14.4	10-106	
Surr: Nitrobenzene-d5	4165-60-0	13.3	40.00	33.3	10-180	
Surr: Phenol-d6	13127-88-3	8.68	80.00	10.8	10-122	
Surr: Terphenyl-d14	1718-51-0	40.0	40.00	100	10-199	

This sample was analyzed for TICs and no unknown peaks were detected.

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ORGANIC ANALYTICAL REPORT

Client: Utah Division of Water Quality **Contact:** Chris Bittner
Project: MP 44.9
Lab Sample ID: 1303706-002B
Client Sample ID: South Marina / 4920495
Collection Date: 3/27/2013 930h
Received Date: 3/27/2013 1554h

Analytical Results SVOA List by GC/MS Method 8270D/3510C

Analyzed: 3/29/2013 1303h **Extracted:** 3/28/2013 807h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8270D

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
1,1´-Biphenyl	92-52-4	10.0	< 10.0	
1,2,4,5-Tetrachlorobenzene	95-94-3	10.0	< 10.0	
1,2,4-Trichlorobenzene	120-82-1	10.0	< 10.0	
1,2-Dichlorobenzene	95-50-1	10.0	< 10.0	
1,3,5-Trinitrobenzene	99-35-4	10.0	< 10.0	
1,3-Dichlorobenzene	541-73-1	10.0	< 10.0	
1,3-Dinitrobenzene	99-65-0	10.0	< 10.0	
1,4-Dichlorobenzene	106-46-7	10.0	< 10.0	
1,4-Dinitrobenzene	100-25-4	10.0	< 10.0	
1,4-Naphthoquinone	130-15-4	10.0	< 10.0	
1,4-Phenylenediamine	106-50-3	10.0	< 10.0	
1-Chloronaphthalene	90-13-1	10.0	< 10.0	
1-Methylnaphthalene	90-12-0	10.0	< 10.0	
1-Naphthylamine	134-32-7	10.0	< 10.0	
2,3,4,6-Tetrachlorophenol	58-90-2	10.0	< 10.0	
2,4,5-Trichlorophenol	95-95-4	10.0	< 10.0	
2,4,6-Trichlorophenol	88-06-2	10.0	< 10.0	
2,4-Dichlorophenol	120-83-2	10.0	< 10.0	
2,4-Dimethylphenol	105-67-9	10.0	< 10.0	
2,4-Dinitrophenol	51-28-5	10.0	< 10.0	
2,4-Dinitrotoluene	121-14-2	10.0	< 10.0	
2,6-Dichlorophenol	87-65-0	10.0	< 10.0	
2,6-Dinitrotoluene	606-20-2	10.0	< 10.0	
2-Acetylaminofluorene	53-96-3	10.0	< 10.0	
2-Chloronaphthalene	91-58-7	10.0	< 10.0	
2-Chlorophenol	95-57-8	10.0	< 10.0	
2-Methylnaphthalene	91-57-6	10.0	< 10.0	
2-Methylphenol	95-48-7	10.0	< 10.0	
2-Naphthylamine	91-59-8	10.0	< 10.0	
2-Nitroaniline	88-74-4	10.0	< 10.0	

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

Lab Sample ID: 1303706-002B
Client Sample ID: South Marina / 4920495

Analyzed: 3/29/2013 1303h **Extracted:** 3/28/2013 807h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8270D

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
2-Nitrophenol	88-75-5	10.0	< 10.0	
2-Picoline	109-06-8	10.0	< 10.0	
3&4-Methylphenol		10.0	< 10.0	
3,3´-Dichlorobenzidine	91-94-1	10.0	< 10.0	
3,3´-Dimethylbenzidine	119-93-7	10.0	< 10.0	
3-Methylcholanthrene	56-49-5	10.0	< 10.0	
3-Nitroaniline	99-09-2	10.0	< 10.0	
4,6-Dinitro-2-methylphenol	534-52-1	10.0	< 10.0	
4-Aminobiphenyl	92-67-1	10.0	< 10.0	
4-Bromophenyl phenyl ether	101-55-3	10.0	< 10.0	
4-Chloro-3-methylphenol	59-50-7	10.0	< 10.0	
4-Chloroaniline	106-47-8	10.0	< 10.0	
4-Chlorophenyl phenyl ether	7005-72-3	10.0	< 10.0	
4-Nitroaniline	100-01-6	10.0	< 10.0	
4-Nitrophenol	100-02-7	10.0	< 10.0	
5-Nitro-o-toluidine	99-55-8	10.0	< 10.0	
7,12-Dimethylbenz(a)anthracene	57-97-6	10.0	< 10.0	
a,a-Dimethylphenethylamine	122-09-8	10.0	< 10.0	
Acenaphthene	83-32-9	10.0	< 10.0	
Acenaphthylene	208-96-8	10.0	< 10.0	
Acetophenone	98-86-2	10.0	< 10.0	
alpha-Terpineol	98-55-5	10.0	< 10.0	
Aniline	62-53-3	10.0	< 10.0	
Anthracene	120-12-7	10.0	< 10.0	
Aramite	140-57-8	10.0	< 10.0	
Atrazine	1912-24-9	10.0	< 10.0	
Azobenzene	103-33-3	10.0	< 10.0	
Benz(a)anthracene	56-55-3	10.0	< 10.0	
Benzaldehyde	100-52-7	10.0	< 10.0	
Benzidine	92-87-5	10.0	< 10.0	
Benzo(a)pyrene	50-32-8	10.0	< 10.0	
Benzo(b)fluoranthene	205-99-2	10.0	< 10.0	
Benzo(g,h,i)perylene	191-24-2	10.0	< 10.0	
Benzo(k)fluoranthene	207-08-9	10.0	< 10.0	
Benzoic acid	65-85-0	20.0	< 20.0	
Benzyl alcohol	100-51-6	10.0	< 10.0	
Bis(2-chloroethoxy)methane	111-91-1	10.0	< 10.0	

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Jose Rocha
QA Officer

Lab Sample ID: 1303706-002B
Client Sample ID: South Marina / 4920495

Analyzed: 3/29/2013 1303h **Extracted:** 3/28/2013 807h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8270D

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Bis(2-chloroethyl) ether	111-44-4	10.0	< 10.0	
Bis(2-chloroisopropyl) ether	108-60-1	10.0	< 10.0	
Bis(2-ethylhexyl) phthalate	117-81-7	10.0	< 10.0	
bis(2-ethylhexyl)adipate	103-23-1	10.0	< 10.0	
Butyl benzyl phthalate	85-68-7	10.0	< 10.0	
Caprolactam	105-60-2	10.0	< 10.0	
Carbazole	86-74-8	10.0	< 10.0	
Chlorobenzilate	510-15-6	10.0	< 10.0	
Chrysene	218-01-9	10.0	< 10.0	
Di-n-butyl phthalate	84-74-2	10.0	< 10.0	
Di-n-octyl phthalate	117-84-0	10.0	< 10.0	
Diallate (cis or trans)	2303-16-4	10.0	< 10.0	
Dibenz(a,h)anthracene	53-70-3	10.0	< 10.0	
Dibenzofuran	132-64-9	10.0	< 10.0	
Diethyl phthalate	84-66-2	10.0	< 10.0	
Dimethoate	60-51-5	10.0	< 10.0	
Dimethyl phthalate	131-11-3	10.0	< 10.0	
Dimethylaminoazobenzene	60-11-7	10.0	< 10.0	
Dinoseb	88-85-7	10.0	< 10.0	
Diphenylamine	122-39-4	10.0	< 10.0	
Disulfoton	298-04-4	10.0	< 10.0	
Ethyl methanesulfonate	62-50-0	10.0	< 10.0	
Famphur	52-85-7	10.0	< 10.0	
Fluoranthene	206-44-0	10.0	< 10.0	
Fluorene	86-73-7	10.0	< 10.0	
Hexachlorobenzene	118-74-1	10.0	< 10.0	
Hexachlorobutadiene	87-68-3	10.0	< 10.0	
Hexachlorocyclopentadiene	77-47-4	10.0	< 10.0	
Hexachloroethane	67-72-1	10.0	< 10.0	
Hexachlorophene	70-30-4	10.0	< 10.0	
Hexachloropropene	1888-71-7	10.0	< 10.0	
Indene	95-13-6	10.0	< 10.0	
Indeno(1,2,3-cd)pyrene	193-39-5	10.0	< 10.0	
Isodrin	465-73-6	10.0	< 10.0	
Isophorone	78-59-1	10.0	< 10.0	
Isosafrole	120-58-1	10.0	< 10.0	
Kepone	143-50-0	10.0	< 10.0	

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Lab Sample ID: 1303706-002B
Client Sample ID: South Marina / 4920495

Analyzed: 3/29/2013 1303h **Extracted:** 3/28/2013 807h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8270D

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Methapyrilene	91-80-5	10.0	< 10.0	
Methyl methanesulfonate	66-27-3	10.0	< 10.0	
n-Decane	124-18-5	10.0	< 10.0	
N-Nitrosodi-n-butylamine	924-16-3	10.0	< 10.0	
N-Nitrosodiethylamine	55-18-5	10.0	< 10.0	
N-Nitrosodimethylamine	62-75-9	10.0	< 10.0	
N-Nitrosodiphenylamine	86-30-6	10.0	< 10.0	
N-Nitrosodi-n-propylamine	621-64-7	10.0	< 10.0	
N-Nitrosomethylethylamine	10595-95-6	10.0	< 10.0	
N-Nitrosomorpholine	59-89-2	10.0	< 10.0	
N-Nitrosopiperidine	100-75-4	10.0	< 10.0	
N-Nitrosopyrrolidine	930-55-2	10.0	< 10.0	
n-Octadecane	593-45-3	10.0	< 10.0	
Naphthalene	91-20-3	10.0	< 10.0	
Nitrobenzene	98-95-3	10.0	< 10.0	
Nitroquinoline-1-oxide	56-57-5	10.0	< 10.0	
O,O,O-Triethyl phosphorothioate	126-68-1	10.0	< 10.0	
o-Toluidine	95-53-4	10.0	< 10.0	
Parathion	56-38-2	10.0	< 10.0	
Methyl parathion	298-00-0	10.0	< 10.0	
Pentachlorobenzene	608-93-5	10.0	< 10.0	
Pentachloronitrobenzene	82-68-8	10.0	< 10.0	
Pentachlorophenol	87-86-5	10.0	< 10.0	
Phenacetin	62-44-2	10.0	< 10.0	
Phenanthrene	85-01-8	10.0	< 10.0	
Phenol	108-95-2	10.0	< 10.0	
Phorate	298-02-2	10.0	< 10.0	
Pronamide	23950-58-5	10.0	< 10.0	
Pyrene	129-00-0	10.0	< 10.0	
Pyridine	110-86-1	10.0	< 10.0	
Quinoline	91-22-5	10.0	< 10.0	
Safrole	94-59-7	10.0	< 10.0	
Tetraethyl dithiopyrophosphate	3689-24-5	10.0	< 10.0	
Thionazin	297-97-2	10.0	< 10.0	

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Lab Sample ID: 1303706-002B
Client Sample ID: South Marina / 4920495

Analyzed: 3/29/2013 1303h **Extracted:** 3/28/2013 807h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8270D

Compound	CAS Number	Reporting Limit	Analytical Result	Qual

Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 2,4,6-Tribromophenol	118-79-6	58.2	80.00	72.8	14-159	
Surr: 2-Fluorobiphenyl	321-60-8	18.2	40.00	45.6	10-124	
Surr: 2-Fluorophenol	367-12-4	22.7	80.00	28.3	10-106	
Surr: Nitrobenzene-d5	4165-60-0	14.3	40.00	35.8	10-180	
Surr: Phenol-d6	13127-88-3	16.1	80.00	20.1	10-122	
Surr: Terphenyl-d14	1718-51-0	41.7	40.00	104	10-199	

This sample was analyzed for TICs and no unknown peaks were detected.

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

All analyses applicable to the CWA, SDWA, and RCRA are performed in accordance to NELAC protocols. Pertinent sampling information is located on the attached COC. This report is provided for the exclusive use of the addressee. Privileges of subsequent use of the name of this company or any member of its staff, or reproduction of this report in connection with the advertisement, promotion or sale of any product or process, or in connection with the re-publication of this report for any purpose other than for the addressee will be granted only on contact. This company accepts no responsibility except for the due performance of inspection and/or analysis in good faith and according to the rules of the trade and of science.

ORGANIC ANALYTICAL REPORT

Client: Utah Division of Water Quality **Contact:** Chris Bittner
Project: MP 44.9
Lab Sample ID: 1303706-003B
Client Sample ID: North Boom / 4920397
Collection Date: 3/27/2013 1030h
Received Date: 3/27/2013 1554h

Analytical Results SVOA List by GC/MS Method 8270D/3510C

Analyzed: 3/29/2013 1330h **Extracted:** 3/28/2013 807h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8270D

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
1,1´-Biphenyl	92-52-4	10.0	< 10.0	
1,2,4,5-Tetrachlorobenzene	95-94-3	10.0	< 10.0	
1,2,4-Trichlorobenzene	120-82-1	10.0	< 10.0	
1,2-Dichlorobenzene	95-50-1	10.0	< 10.0	
1,3,5-Trinitrobenzene	99-35-4	10.0	< 10.0	
1,3-Dichlorobenzene	541-73-1	10.0	< 10.0	
1,3-Dinitrobenzene	99-65-0	10.0	< 10.0	
1,4-Dichlorobenzene	106-46-7	10.0	< 10.0	
1,4-Dinitrobenzene	100-25-4	10.0	< 10.0	
1,4-Naphthoquinone	130-15-4	10.0	< 10.0	
1,4-Phenylenediamine	106-50-3	10.0	< 10.0	
1-Chloronaphthalene	90-13-1	10.0	< 10.0	
1-Methylnaphthalene	90-12-0	10.0	< 10.0	
1-Naphthylamine	134-32-7	10.0	< 10.0	
2,3,4,6-Tetrachlorophenol	58-90-2	10.0	< 10.0	
2,4,5-Trichlorophenol	95-95-4	10.0	< 10.0	
2,4,6-Trichlorophenol	88-06-2	10.0	< 10.0	
2,4-Dichlorophenol	120-83-2	10.0	< 10.0	
2,4-Dimethylphenol	105-67-9	10.0	< 10.0	
2,4-Dinitrophenol	51-28-5	10.0	< 10.0	
2,4-Dinitrotoluene	121-14-2	10.0	< 10.0	
2,6-Dichlorophenol	87-65-0	10.0	< 10.0	
2,6-Dinitrotoluene	606-20-2	10.0	< 10.0	
2-Acetylaminofluorene	53-96-3	10.0	< 10.0	
2-Chloronaphthalene	91-58-7	10.0	< 10.0	
2-Chlorophenol	95-57-8	10.0	< 10.0	
2-Methylnaphthalene	91-57-6	10.0	< 10.0	
2-Methylphenol	95-48-7	10.0	< 10.0	
2-Naphthylamine	91-59-8	10.0	< 10.0	
2-Nitroaniline	88-74-4	10.0	< 10.0	

All analyses applicable to the CWA, SDWA, and RCRA are performed in accordance to NELAC protocols. Pertinent sampling information is located on the attached COC. This report is provided for the exclusive use of the addressee. Privileges of subsequent use of the name of this company or any member of its staff, or reproduction of this report in connection with the advertisement, promotion or sale of any product or process, or in connection with the re-publication of this report for any purpose other than for the addressee will be granted only on contact. This company accepts no responsibility except for the due performance of inspection and/or analysis in good faith and according to the rules of the trade and of science.

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

Lab Sample ID: 1303706-003B
Client Sample ID: North Boom / 4920397

Analyzed: 3/29/2013 1330h **Extracted:** 3/28/2013 807h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8270D

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
2-Nitrophenol	88-75-5	10.0	< 10.0	
2-Picoline	109-06-8	10.0	< 10.0	
3&4-Methylphenol		10.0	< 10.0	
3,3´-Dichlorobenzidine	91-94-1	10.0	< 10.0	
3,3´-Dimethylbenzidine	119-93-7	10.0	< 10.0	
3-Methylcholanthrene	56-49-5	10.0	< 10.0	
3-Nitroaniline	99-09-2	10.0	< 10.0	
4,6-Dinitro-2-methylphenol	534-52-1	10.0	< 10.0	
4-Aminobiphenyl	92-67-1	10.0	< 10.0	
4-Bromophenyl phenyl ether	101-55-3	10.0	< 10.0	
4-Chloro-3-methylphenol	59-50-7	10.0	< 10.0	
4-Chloroaniline	106-47-8	10.0	< 10.0	
4-Chlorophenyl phenyl ether	7005-72-3	10.0	< 10.0	
4-Nitroaniline	100-01-6	10.0	< 10.0	
4-Nitrophenol	100-02-7	10.0	< 10.0	
5-Nitro-o-toluidine	99-55-8	10.0	< 10.0	
7,12-Dimethylbenz(a)anthracene	57-97-6	10.0	< 10.0	
a,a-Dimethylphenethylamine	122-09-8	10.0	< 10.0	
Acenaphthene	83-32-9	10.0	< 10.0	
Acenaphthylene	208-96-8	10.0	< 10.0	
Acetophenone	98-86-2	10.0	< 10.0	
alpha-Terpineol	98-55-5	10.0	< 10.0	
Aniline	62-53-3	10.0	< 10.0	
Anthracene	120-12-7	10.0	< 10.0	
Aramite	140-57-8	10.0	< 10.0	
Atrazine	1912-24-9	10.0	< 10.0	
Azobenzene	103-33-3	10.0	< 10.0	
Benz(a)anthracene	56-55-3	10.0	< 10.0	
Benzaldehyde	100-52-7	10.0	< 10.0	
Benzidine	92-87-5	10.0	< 10.0	
Benzo(a)pyrene	50-32-8	10.0	< 10.0	
Benzo(b)fluoranthene	205-99-2	10.0	< 10.0	
Benzo(g,h,i)perylene	191-24-2	10.0	< 10.0	
Benzo(k)fluoranthene	207-08-9	10.0	< 10.0	
Benzoic acid	65-85-0	20.0	< 20.0	
Benzyl alcohol	100-51-6	10.0	< 10.0	
Bis(2-chloroethoxy)methane	111-91-1	10.0	< 10.0	

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Laboratory Director

Jose Rocha
QA Officer

Lab Sample ID: 1303706-003B
Client Sample ID: North Boom / 4920397

Analyzed: 3/29/2013 1330h **Extracted:** 3/28/2013 807h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8270D

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Bis(2-chloroethyl) ether	111-44-4	10.0	< 10.0	
Bis(2-chloroisopropyl) ether	108-60-1	10.0	< 10.0	
Bis(2-ethylhexyl) phthalate	117-81-7	10.0	< 10.0	
bis(2-ethylhexyl)adipate	103-23-1	10.0	< 10.0	
Butyl benzyl phthalate	85-68-7	10.0	< 10.0	
Caprolactam	105-60-2	10.0	< 10.0	
Carbazole	86-74-8	10.0	< 10.0	
Chlorobenzilate	510-15-6	10.0	< 10.0	
Chrysene	218-01-9	10.0	< 10.0	
Di-n-butyl phthalate	84-74-2	10.0	< 10.0	
Di-n-octyl phthalate	117-84-0	10.0	< 10.0	
Diallate (cis or trans)	2303-16-4	10.0	< 10.0	
Dibenz(a,h)anthracene	53-70-3	10.0	< 10.0	
Dibenzofuran	132-64-9	10.0	< 10.0	
Diethyl phthalate	84-66-2	10.0	< 10.0	
Dimethoate	60-51-5	10.0	< 10.0	
Dimethyl phthalate	131-11-3	10.0	< 10.0	
Dimethylaminoazobenzene	60-11-7	10.0	< 10.0	
Dinoseb	88-85-7	10.0	< 10.0	
Diphenylamine	122-39-4	10.0	< 10.0	
Disulfoton	298-04-4	10.0	< 10.0	
Ethyl methanesulfonate	62-50-0	10.0	< 10.0	
Famphur	52-85-7	10.0	< 10.0	
Fluoranthene	206-44-0	10.0	< 10.0	
Fluorene	86-73-7	10.0	< 10.0	
Hexachlorobenzene	118-74-1	10.0	< 10.0	
Hexachlorobutadiene	87-68-3	10.0	< 10.0	
Hexachlorocyclopentadiene	77-47-4	10.0	< 10.0	
Hexachloroethane	67-72-1	10.0	< 10.0	
Hexachlorophene	70-30-4	10.0	< 10.0	
Hexachloropropene	1888-71-7	10.0	< 10.0	
Indene	95-13-6	10.0	< 10.0	
Indeno(1,2,3-cd)pyrene	193-39-5	10.0	< 10.0	
Isodrin	465-73-6	10.0	< 10.0	
Isophorone	78-59-1	10.0	< 10.0	
Isosafrole	120-58-1	10.0	< 10.0	
Kepone	143-50-0	10.0	< 10.0	

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

Lab Sample ID: 1303706-003B
Client Sample ID: North Boom / 4920397

Analyzed: 3/29/2013 1330h **Extracted:** 3/28/2013 807h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8270D

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Methapyrilene	91-80-5	10.0	< 10.0	
Methyl methanesulfonate	66-27-3	10.0	< 10.0	
n-Decane	124-18-5	10.0	< 10.0	
N-Nitrosodi-n-butylamine	924-16-3	10.0	< 10.0	
N-Nitrosodiethylamine	55-18-5	10.0	< 10.0	
N-Nitrosodimethylamine	62-75-9	10.0	< 10.0	
N-Nitrosodiphenylamine	86-30-6	10.0	< 10.0	
N-Nitrosodi-n-propylamine	621-64-7	10.0	< 10.0	
N-Nitrosomethylethylamine	10595-95-6	10.0	< 10.0	
N-Nitrosomorpholine	59-89-2	10.0	< 10.0	
N-Nitrosopiperidine	100-75-4	10.0	< 10.0	
N-Nitrosopyrrolidine	930-55-2	10.0	< 10.0	
n-Octadecane	593-45-3	10.0	< 10.0	
Naphthalene	91-20-3	10.0	< 10.0	
Nitrobenzene	98-95-3	10.0	< 10.0	
Nitroquinoline-1-oxide	56-57-5	10.0	< 10.0	
O,O,O-Triethyl phosphorothioate	126-68-1	10.0	< 10.0	
o-Toluidine	95-53-4	10.0	< 10.0	
Parathion	56-38-2	10.0	< 10.0	
Methyl parathion	298-00-0	10.0	< 10.0	
Pentachlorobenzene	608-93-5	10.0	< 10.0	
Pentachloronitrobenzene	82-68-8	10.0	< 10.0	
Pentachlorophenol	87-86-5	10.0	< 10.0	
Phenacetin	62-44-2	10.0	< 10.0	
Phenanthrene	85-01-8	10.0	< 10.0	
Phenol	108-95-2	10.0	< 10.0	
Phorate	298-02-2	10.0	< 10.0	
Pronamide	23950-58-5	10.0	< 10.0	
Pyrene	129-00-0	10.0	< 10.0	
Pyridine	110-86-1	10.0	< 10.0	
Quinoline	91-22-5	10.0	< 10.0	
Safrole	94-59-7	10.0	< 10.0	
Tetraethyl dithiopyrophosphate	3689-24-5	10.0	< 10.0	
Thionazin	297-97-2	10.0	< 10.0	
TIC: 1(2H)-Naphthalenone, 3,4-di…	006939-35-1		4.70	JN
TIC: 1,3,5-Cycloheptatriene, 3,4…	1000156-99-7		6.12	JN
TIC: 1H-Cyclopropa[b]naphthalene…	006571-72-8		4.17	JN

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

Lab Sample ID: 1303706-003B
Client Sample ID: North Boom / 4920397

Analyzed: 3/29/2013 1330h **Extracted:** 3/28/2013 807h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8270D

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
TIC: 3-Eicosene, (E)-	074685-33-9		6.73	JN
TIC: 5,8-Dimethyl-1,2,3,4-tetrah…	032820-12-5		4.44	JN
TIC: Benzene, 1-(1,1-dimethyleth…	006630-01-9		4.63	JN
TIC: Benzene, 1,4-bis(1-methylet…	001605-18-1		5.33	JN
TIC: n-Hexadecanoic acid	000057-10-3		5.19	JN

Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 2,4,6-Tribromophenol	118-79-6	63.0	80.00	78.8	14-159	
Surr: 2-Fluorobiphenyl	321-60-8	17.1	40.00	42.8	10-124	
Surr: 2-Fluorophenol	367-12-4	23.5	80.00	29.3	10-106	
Surr: Nitrobenzene-d5	4165-60-0	14.3	40.00	35.8	10-180	
Surr: Phenol-d6	13127-88-3	17.1	80.00	21.4	10-122	
Surr: Terphenyl-d14	1718-51-0	38.2	40.00	95.6	10-199	

J - This flag indicates an estimated value.
N - This flag indicates presumptive evidence of a compound.
This sample was analyzed for TICs.

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ORGANIC ANALYTICAL REPORT

Client: Utah Division of Water Quality **Contact:** Chris Bittner
Project: MP 44.9
Lab Sample ID: 1303706-004B
Client Sample ID: W Boom 5 / 4920499
Collection Date: 3/27/2013 1050h
Received Date: 3/27/2013 1554h

Analytical Results SVOA List by GC/MS Method 8270D/3510C

Analyzed: 3/29/2013 1356h **Extracted:** 3/28/2013 807h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8270D

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Jose Rocha
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Compound	CAS Number	Reporting Limit	Analytical Result	Qual
1,1´-Biphenyl	92-52-4	10.0	< 10.0	
1,2,4,5-Tetrachlorobenzene	95-94-3	10.0	< 10.0	
1,2,4-Trichlorobenzene	120-82-1	10.0	< 10.0	
1,2-Dichlorobenzene	95-50-1	10.0	< 10.0	
1,3,5-Trinitrobenzene	99-35-4	10.0	< 10.0	
1,3-Dichlorobenzene	541-73-1	10.0	< 10.0	
1,3-Dinitrobenzene	99-65-0	10.0	< 10.0	
1,4-Dichlorobenzene	106-46-7	10.0	< 10.0	
1,4-Dinitrobenzene	100-25-4	10.0	< 10.0	
1,4-Naphthoquinone	130-15-4	10.0	< 10.0	
1,4-Phenylenediamine	106-50-3	10.0	< 10.0	
1-Chloronaphthalene	90-13-1	10.0	< 10.0	
1-Methylnaphthalene	90-12-0	10.0	< 10.0	
1-Naphthylamine	134-32-7	10.0	< 10.0	
2,3,4,6-Tetrachlorophenol	58-90-2	10.0	< 10.0	
2,4,5-Trichlorophenol	95-95-4	10.0	< 10.0	
2,4,6-Trichlorophenol	88-06-2	10.0	< 10.0	
2,4-Dichlorophenol	120-83-2	10.0	< 10.0	
2,4-Dimethylphenol	105-67-9	10.0	< 10.0	
2,4-Dinitrophenol	51-28-5	10.0	< 10.0	
2,4-Dinitrotoluene	121-14-2	10.0	< 10.0	
2,6-Dichlorophenol	87-65-0	10.0	< 10.0	
2,6-Dinitrotoluene	606-20-2	10.0	< 10.0	
2-Acetylaminofluorene	53-96-3	10.0	< 10.0	
2-Chloronaphthalene	91-58-7	10.0	< 10.0	@
2-Chlorophenol	95-57-8	10.0	< 10.0	
2-Methylnaphthalene	91-57-6	10.0	< 10.0	
2-Methylphenol	95-48-7	10.0	< 10.0	
2-Naphthylamine	91-59-8	10.0	< 10.0	
2-Nitroaniline	88-74-4	10.0	< 10.0	

All analyses applicable to the CWA, SDWA, and RCRA are performed in accordance to NELAC protocols. Pertinent sampling information is located on the attached COC. This report is provided for the exclusive use of the addressee. Privileges of subsequent use of the name of this company or any member of its staff, or reproduction of this report in connection with the advertisement, promotion or sale of any product or process, or in connection with the re-publication of this report for any purpose other than for the addressee will be granted only on contact. This company accepts no responsibility except for the due performance of inspection and/or analysis in good faith and according to the rules of the trade and of science.

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

Lab Sample ID: 1303706-004B
Client Sample ID: W Boom 5 / 4920499

Analyzed: 3/29/2013 1356h **Extracted:** 3/28/2013 807h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8270D

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
2-Nitrophenol	88-75-5	10.0	< 10.0	
2-Picoline	109-06-8	10.0	< 10.0	
3&4-Methylphenol		10.0	< 10.0	
3,3´-Dichlorobenzidine	91-94-1	10.0	< 10.0	
3,3´-Dimethylbenzidine	119-93-7	10.0	< 10.0	
3-Methylcholanthrene	56-49-5	10.0	< 10.0	
3-Nitroaniline	99-09-2	10.0	< 10.0	
4,6-Dinitro-2-methylphenol	534-52-1	10.0	< 10.0	
4-Aminobiphenyl	92-67-1	10.0	< 10.0	
4-Bromophenyl phenyl ether	101-55-3	10.0	< 10.0	
4-Chloro-3-methylphenol	59-50-7	10.0	< 10.0	
4-Chloroaniline	106-47-8	10.0	< 10.0	
4-Chlorophenyl phenyl ether	7005-72-3	10.0	< 10.0	
4-Nitroaniline	100-01-6	10.0	< 10.0	
4-Nitrophenol	100-02-7	10.0	< 10.0	
5-Nitro-o-toluidine	99-55-8	10.0	< 10.0	
7,12-Dimethylbenz(a)anthracene	57-97-6	10.0	< 10.0	
a,a-Dimethylphenethylamine	122-09-8	10.0	< 10.0	
Acenaphthene	83-32-9	10.0	< 10.0	
Acenaphthylene	208-96-8	10.0	< 10.0	
Acetophenone	98-86-2	10.0	< 10.0	
alpha-Terpineol	98-55-5	10.0	< 10.0	
Aniline	62-53-3	10.0	< 10.0	
Anthracene	120-12-7	10.0	< 10.0	
Aramite	140-57-8	10.0	< 10.0	
Atrazine	1912-24-9	10.0	< 10.0	
Azobenzene	103-33-3	10.0	< 10.0	
Benz(a)anthracene	56-55-3	10.0	< 10.0	
Benzaldehyde	100-52-7	10.0	< 10.0	
Benzidine	92-87-5	10.0	< 10.0	
Benzo(a)pyrene	50-32-8	10.0	< 10.0	
Benzo(b)fluoranthene	205-99-2	10.0	< 10.0	
Benzo(g,h,i)perylene	191-24-2	10.0	< 10.0	
Benzo(k)fluoranthene	207-08-9	10.0	< 10.0	
Benzoic acid	65-85-0	20.0	< 20.0	
Benzyl alcohol	100-51-6	10.0	< 10.0	
Bis(2-chloroethoxy)methane	111-91-1	10.0	< 10.0	

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

Lab Sample ID: 1303706-004B
Client Sample ID: W Boom 5 / 4920499

Analyzed: 3/29/2013 1356h **Extracted:** 3/28/2013 807h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8270D

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Bis(2-chloroethyl) ether	111-44-4	10.0	< 10.0	
Bis(2-chloroisopropyl) ether	108-60-1	10.0	< 10.0	
Bis(2-ethylhexyl) phthalate	117-81-7	10.0	< 10.0	
bis(2-ethylhexyl)adipate	103-23-1	10.0	< 10.0	
Butyl benzyl phthalate	85-68-7	10.0	< 10.0	
Caprolactam	105-60-2	10.0	< 10.0	
Carbazole	86-74-8	10.0	< 10.0	
Chlorobenzilate	510-15-6	10.0	< 10.0	
Chrysene	218-01-9	10.0	< 10.0	
Di-n-butyl phthalate	84-74-2	10.0	< 10.0	
Di-n-octyl phthalate	117-84-0	10.0	< 10.0	
Diallate (cis or trans)	2303-16-4	10.0	< 10.0	
Dibenz(a,h)anthracene	53-70-3	10.0	< 10.0	
Dibenzofuran	132-64-9	10.0	< 10.0	
Diethyl phthalate	84-66-2	10.0	< 10.0	
Dimethoate	60-51-5	10.0	< 10.0	
Dimethyl phthalate	131-11-3	10.0	< 10.0	
Dimethylaminoazobenzene	60-11-7	10.0	< 10.0	
Dinoseb	88-85-7	10.0	< 10.0	
Diphenylamine	122-39-4	10.0	< 10.0	
Disulfoton	298-04-4	10.0	< 10.0	
Ethyl methanesulfonate	62-50-0	10.0	< 10.0	
Famphur	52-85-7	10.0	< 10.0	
Fluoranthene	206-44-0	10.0	< 10.0	
Fluorene	86-73-7	10.0	< 10.0	
Hexachlorobenzene	118-74-1	10.0	< 10.0	
Hexachlorobutadiene	87-68-3	10.0	< 10.0	
Hexachlorocyclopentadiene	77-47-4	10.0	< 10.0	
Hexachloroethane	67-72-1	10.0	< 10.0	
Hexachlorophene	70-30-4	10.0	< 10.0	
Hexachloropropene	1888-71-7	10.0	< 10.0	
Indene	95-13-6	10.0	< 10.0	
Indeno(1,2,3-cd)pyrene	193-39-5	10.0	< 10.0	
Isodrin	465-73-6	10.0	< 10.0	
Isophorone	78-59-1	10.0	< 10.0	
Isosafrole	120-58-1	10.0	< 10.0	
Kepone	143-50-0	10.0	< 10.0	

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

Lab Sample ID: 1303706-004B
Client Sample ID: W Boom 5 / 4920499

Analyzed: 3/29/2013 1356h **Extracted:** 3/28/2013 807h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8270D

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Methapyrilene	91-80-5	10.0	< 10.0	
Methyl methanesulfonate	66-27-3	10.0	< 10.0	
n-Decane	124-18-5	10.0	< 10.0	
N-Nitrosodi-n-butylamine	924-16-3	10.0	< 10.0	
N-Nitrosodiethylamine	55-18-5	10.0	< 10.0	
N-Nitrosodimethylamine	62-75-9	10.0	< 10.0	
N-Nitrosodiphenylamine	86-30-6	10.0	< 10.0	
N-Nitrosodi-n-propylamine	621-64-7	10.0	< 10.0	
N-Nitrosomethylethylamine	10595-95-6	10.0	< 10.0	
N-Nitrosomorpholine	59-89-2	10.0	< 10.0	
N-Nitrosopiperidine	100-75-4	10.0	< 10.0	
N-Nitrosopyrrolidine	930-55-2	10.0	< 10.0	
n-Octadecane	593-45-3	10.0	< 10.0	
Naphthalene	91-20-3	10.0	< 10.0	
Nitrobenzene	98-95-3	10.0	< 10.0	
Nitroquinoline-1-oxide	56-57-5	10.0	< 10.0	
O,O,O-Triethyl phosphorothioate	126-68-1	10.0	< 10.0	
o-Toluidine	95-53-4	10.0	< 10.0	
Parathion	56-38-2	10.0	< 10.0	
Methyl parathion	298-00-0	10.0	< 10.0	
Pentachlorobenzene	608-93-5	10.0	< 10.0	
Pentachloronitrobenzene	82-68-8	10.0	< 10.0	
Pentachlorophenol	87-86-5	10.0	< 10.0	
Phenacetin	62-44-2	10.0	< 10.0	
Phenanthrene	85-01-8	10.0	< 10.0	
Phenol	108-95-2	10.0	< 10.0	
Phorate	298-02-2	10.0	< 10.0	
Pronamide	23950-58-5	10.0	< 10.0	
Pyrene	129-00-0	10.0	< 10.0	
Pyridine	110-86-1	10.0	< 10.0	
Quinoline	91-22-5	10.0	< 10.0	
Safrole	94-59-7	10.0	< 10.0	
Tetraethyl dithiopyrophosphate	3689-24-5	10.0	< 10.0	
Thionazin	297-97-2	10.0	< 10.0	
TIC: 1-Nonadecene	018435-45-5		4.05	JN

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

Lab Sample ID: 1303706-004B
Client Sample ID: W Boom 5 / 4920499

Analyzed: 3/29/2013 1356h **Extracted:** 3/28/2013 807h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8270D

Compound	CAS Number	Reporting Limit	Analytical Result	Qual

Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 2,4,6-Tribromophenol	118-79-6	51.4	80.00	64.2	14-159	
Surr: 2-Fluorobiphenyl	321-60-8	12.3	40.00	30.8	10-124	
Surr: 2-Fluorophenol	367-12-4	15.7	80.00	19.6	10-106	
Surr: Nitrobenzene-d5	4165-60-0	9.97	40.00	24.9	10-180	
Surr: Phenol-d6	13127-88-3	11.4	80.00	14.3	10-122	
Surr: Terphenyl-d14	1718-51-0	40.1	40.00	100	10-199	

J - This flag indicates an estimated value.
N - This flag indicates presumptive evidence of a compound.
@ - High RPD due to suspected sample non-homogeneity or matrix interference.
This sample was analyzed for TICs.

All analyses applicable to the CWA, SDWA, and RCRA are performed in accordance to NELAC protocols. Pertinent sampling information is located on the attached COC. This report is provided for the exclusive use of the addressee. Privileges of subsequent use of the name of this company or any member of its staff, or reproduction of this report in connection with the advertisement, promotion or sale of any product or process, or in connection with the re-publication of this report for any purpose other than for the addressee will be granted only on contact. This company accepts no responsibility except for the due performance of inspection and/or analysis in good faith and according to the rules of the trade and of science.

ORGANIC ANALYTICAL REPORT

Client: Utah Division of Water Quality **Contact:** Chris Bittner
Project: MP 44.9
Lab Sample ID: 1303706-005B
Client Sample ID: W Boom 4 / 4920498
Collection Date: 3/27/2013 1100h
Received Date: 3/27/2013 1554h

Analytical Results SVOA List by GC/MS Method 8270D/3510C

Analyzed: 3/29/2013 1517h **Extracted:** 3/28/2013 807h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8270D

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
1,1´-Biphenyl	92-52-4	10.0	< 10.0	
1,2,4,5-Tetrachlorobenzene	95-94-3	10.0	< 10.0	
1,2,4-Trichlorobenzene	120-82-1	10.0	< 10.0	
1,2-Dichlorobenzene	95-50-1	10.0	< 10.0	
1,3,5-Trinitrobenzene	99-35-4	10.0	< 10.0	
1,3-Dichlorobenzene	541-73-1	10.0	< 10.0	
1,3-Dinitrobenzene	99-65-0	10.0	< 10.0	
1,4-Dichlorobenzene	106-46-7	10.0	< 10.0	
1,4-Dinitrobenzene	100-25-4	10.0	< 10.0	
1,4-Naphthoquinone	130-15-4	10.0	< 10.0	
1,4-Phenylenediamine	106-50-3	10.0	< 10.0	
1-Chloronaphthalene	90-13-1	10.0	< 10.0	
1-Methylnaphthalene	90-12-0	10.0	< 10.0	
1-Naphthylamine	134-32-7	10.0	< 10.0	
2,3,4,6-Tetrachlorophenol	58-90-2	10.0	< 10.0	
2,4,5-Trichlorophenol	95-95-4	10.0	< 10.0	
2,4,6-Trichlorophenol	88-06-2	10.0	< 10.0	
2,4-Dichlorophenol	120-83-2	10.0	< 10.0	
2,4-Dimethylphenol	105-67-9	10.0	< 10.0	
2,4-Dinitrophenol	51-28-5	10.0	< 10.0	
2,4-Dinitrotoluene	121-14-2	10.0	< 10.0	
2,6-Dichlorophenol	87-65-0	10.0	< 10.0	
2,6-Dinitrotoluene	606-20-2	10.0	< 10.0	
2-Acetylaminofluorene	53-96-3	10.0	< 10.0	
2-Chloronaphthalene	91-58-7	10.0	< 10.0	
2-Chlorophenol	95-57-8	10.0	< 10.0	
2-Methylnaphthalene	91-57-6	10.0	< 10.0	
2-Methylphenol	95-48-7	10.0	< 10.0	
2-Naphthylamine	91-59-8	10.0	< 10.0	
2-Nitroaniline	88-74-4	10.0	< 10.0	

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

Lab Sample ID: 1303706-005B
Client Sample ID: W Boom 4 / 4920498

Analyzed: 3/29/2013 1517h **Extracted:** 3/28/2013 807h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8270D

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
2-Nitrophenol	88-75-5	10.0	< 10.0	
2-Picoline	109-06-8	10.0	< 10.0	
3&4-Methylphenol		10.0	< 10.0	
3,3´-Dichlorobenzidine	91-94-1	10.0	< 10.0	
3,3´-Dimethylbenzidine	119-93-7	10.0	< 10.0	
3-Methylcholanthrene	56-49-5	10.0	< 10.0	
3-Nitroaniline	99-09-2	10.0	< 10.0	
4,6-Dinitro-2-methylphenol	534-52-1	10.0	< 10.0	
4-Aminobiphenyl	92-67-1	10.0	< 10.0	
4-Bromophenyl phenyl ether	101-55-3	10.0	< 10.0	
4-Chloro-3-methylphenol	59-50-7	10.0	< 10.0	
4-Chloroaniline	106-47-8	10.0	< 10.0	
4-Chlorophenyl phenyl ether	7005-72-3	10.0	< 10.0	
4-Nitroaniline	100-01-6	10.0	< 10.0	
4-Nitrophenol	100-02-7	10.0	< 10.0	
5-Nitro-o-toluidine	99-55-8	10.0	< 10.0	
7,12-Dimethylbenz(a)anthracene	57-97-6	10.0	< 10.0	
a,a-Dimethylphenethylamine	122-09-8	10.0	< 10.0	
Acenaphthene	83-32-9	10.0	< 10.0	
Acenaphthylene	208-96-8	10.0	< 10.0	
Acetophenone	98-86-2	10.0	< 10.0	
alpha-Terpineol	98-55-5	10.0	< 10.0	
Aniline	62-53-3	10.0	< 10.0	
Anthracene	120-12-7	10.0	< 10.0	
Aramite	140-57-8	10.0	< 10.0	
Atrazine	1912-24-9	10.0	< 10.0	
Azobenzene	103-33-3	10.0	< 10.0	
Benz(a)anthracene	56-55-3	10.0	< 10.0	
Benzaldehyde	100-52-7	10.0	< 10.0	
Benzidine	92-87-5	10.0	< 10.0	
Benzo(a)pyrene	50-32-8	10.0	< 10.0	
Benzo(b)fluoranthene	205-99-2	10.0	< 10.0	
Benzo(g,h,i)perylene	191-24-2	10.0	< 10.0	
Benzo(k)fluoranthene	207-08-9	10.0	< 10.0	
Benzoic acid	65-85-0	20.0	< 20.0	
Benzyl alcohol	100-51-6	10.0	< 10.0	
Bis(2-chloroethoxy)methane	111-91-1	10.0	< 10.0	

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

Lab Sample ID: 1303706-005B
Client Sample ID: W Boom 4 / 4920498

Analyzed: 3/29/2013 1517h **Extracted:** 3/28/2013 807h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8270D

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Bis(2-chloroethyl) ether	111-44-4	10.0	< 10.0	
Bis(2-chloroisopropyl) ether	108-60-1	10.0	< 10.0	
Bis(2-ethylhexyl) phthalate	117-81-7	10.0	< 10.0	
bis(2-ethylhexyl)adipate	103-23-1	10.0	< 10.0	
Butyl benzyl phthalate	85-68-7	10.0	< 10.0	
Caprolactam	105-60-2	10.0	< 10.0	
Carbazole	86-74-8	10.0	< 10.0	
Chlorobenzilate	510-15-6	10.0	< 10.0	
Chrysene	218-01-9	10.0	< 10.0	
Di-n-butyl phthalate	84-74-2	10.0	< 10.0	
Di-n-octyl phthalate	117-84-0	10.0	< 10.0	
Diallate (cis or trans)	2303-16-4	10.0	< 10.0	
Dibenz(a,h)anthracene	53-70-3	10.0	< 10.0	
Dibenzofuran	132-64-9	10.0	< 10.0	
Diethyl phthalate	84-66-2	10.0	< 10.0	
Dimethoate	60-51-5	10.0	< 10.0	
Dimethyl phthalate	131-11-3	10.0	< 10.0	
Dimethylaminoazobenzene	60-11-7	10.0	< 10.0	
Dinoseb	88-85-7	10.0	< 10.0	
Diphenylamine	122-39-4	10.0	< 10.0	
Disulfoton	298-04-4	10.0	< 10.0	
Ethyl methanesulfonate	62-50-0	10.0	< 10.0	
Famphur	52-85-7	10.0	< 10.0	
Fluoranthene	206-44-0	10.0	< 10.0	
Fluorene	86-73-7	10.0	< 10.0	
Hexachlorobenzene	118-74-1	10.0	< 10.0	
Hexachlorobutadiene	87-68-3	10.0	< 10.0	
Hexachlorocyclopentadiene	77-47-4	10.0	< 10.0	
Hexachloroethane	67-72-1	10.0	< 10.0	
Hexachlorophene	70-30-4	10.0	< 10.0	
Hexachloropropene	1888-71-7	10.0	< 10.0	
Indene	95-13-6	10.0	< 10.0	
Indeno(1,2,3-cd)pyrene	193-39-5	10.0	< 10.0	
Isodrin	465-73-6	10.0	< 10.0	
Isophorone	78-59-1	10.0	< 10.0	
Isosafrole	120-58-1	10.0	< 10.0	
Kepone	143-50-0	10.0	< 10.0	

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

Lab Sample ID: 1303706-005B
Client Sample ID: W Boom 4 / 4920498

Analyzed: 3/29/2013 1517h **Extracted:** 3/28/2013 807h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8270D

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Methapyrilene	91-80-5	10.0	< 10.0	
Methyl methanesulfonate	66-27-3	10.0	< 10.0	
n-Decane	124-18-5	10.0	< 10.0	
N-Nitrosodi-n-butylamine	924-16-3	10.0	< 10.0	
N-Nitrosodiethylamine	55-18-5	10.0	< 10.0	
N-Nitrosodimethylamine	62-75-9	10.0	< 10.0	
N-Nitrosodiphenylamine	86-30-6	10.0	< 10.0	
N-Nitrosodi-n-propylamine	621-64-7	10.0	< 10.0	
N-Nitrosomethylethylamine	10595-95-6	10.0	< 10.0	
N-Nitrosomorpholine	59-89-2	10.0	< 10.0	
N-Nitrosopiperidine	100-75-4	10.0	< 10.0	
N-Nitrosopyrrolidine	930-55-2	10.0	< 10.0	
n-Octadecane	593-45-3	10.0	< 10.0	
Naphthalene	91-20-3	10.0	< 10.0	
Nitrobenzene	98-95-3	10.0	< 10.0	
Nitroquinoline-1-oxide	56-57-5	10.0	< 10.0	
O,O,O-Triethyl phosphorothioate	126-68-1	10.0	< 10.0	
o-Toluidine	95-53-4	10.0	< 10.0	
Parathion	56-38-2	10.0	< 10.0	
Methyl parathion	298-00-0	10.0	< 10.0	
Pentachlorobenzene	608-93-5	10.0	< 10.0	
Pentachloronitrobenzene	82-68-8	10.0	< 10.0	
Pentachlorophenol	87-86-5	10.0	< 10.0	
Phenacetin	62-44-2	10.0	< 10.0	
Phenanthrene	85-01-8	10.0	< 10.0	
Phenol	108-95-2	10.0	< 10.0	
Phorate	298-02-2	10.0	< 10.0	
Pronamide	23950-58-5	10.0	< 10.0	
Pyrene	129-00-0	10.0	< 10.0	
Pyridine	110-86-1	10.0	< 10.0	
Quinoline	91-22-5	10.0	< 10.0	
Safrole	94-59-7	10.0	< 10.0	
Tetraethyl dithiopyrophosphate	3689-24-5	10.0	< 10.0	
Thionazin	297-97-2	10.0	< 10.0	
TIC: 1H-Indolizino[8,7-b]indole,…	026503-40-2		5.67	JN
TIC: 9-Eicosene, (E)-	074685-29-3		5.14	JN

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Lab Sample ID: 1303706-005B
Client Sample ID: W Boom 4 / 4920498

Analyzed: 3/29/2013 1517h **Extracted:** 3/28/2013 807h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8270D

Compound	CAS Number	Reporting Limit	Analytical Result	Qual

Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 2,4,6-Tribromophenol	118-79-6	61.6	80.00	77.0	14-159	
Surr: 2-Fluorobiphenyl	321-60-8	17.0	40.00	42.4	10-124	
Surr: 2-Fluorophenol	367-12-4	23.6	80.00	29.5	10-106	
Surr: Nitrobenzene-d5	4165-60-0	14.0	40.00	35.0	10-180	
Surr: Phenol-d6	13127-88-3	17.2	80.00	21.5	10-122	
Surr: Terphenyl-d14	1718-51-0	39.6	40.00	98.9	10-199	

J - This flag indicates an estimated value.
N - This flag indicates presumptive evidence of a compound.
This sample was analyzed for TICs.

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

All analyses applicable to the CWA, SDWA, and RCRA are performed in accordance to NELAC protocols. Pertinent sampling information is located on the attached COC. This report is provided for the exclusive use of the addressee. Privileges of subsequent use of the name of this company or any member of its staff, or reproduction of this report in connection with the advertisement, promotion or sale of any product or process, or in connection with the re-publication of this report for any purpose other than for the addressee will be granted only on contact. This company accepts no responsibility except for the due performance of inspection and/or analysis in good faith and according to the rules of the trade and of science.

ORGANIC ANALYTICAL REPORT

Client: Utah Division of Water Quality **Contact:** Chris Bittner
Project: MP 44.9
Lab Sample ID: 1303706-006B
Client Sample ID: W Boom 3 / 4920497
Collection Date: 3/27/2013 1120h
Received Date: 3/27/2013 1554h

Analytical Results SVOA List by GC/MS Method 8270D/3510C

Analyzed: 3/29/2013 1544h **Extracted:** 3/28/2013 807h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8270D

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
1,1´-Biphenyl	92-52-4	10.0	< 10.0	
1,2,4,5-Tetrachlorobenzene	95-94-3	10.0	< 10.0	
1,2,4-Trichlorobenzene	120-82-1	10.0	< 10.0	
1,2-Dichlorobenzene	95-50-1	10.0	< 10.0	
1,3,5-Trinitrobenzene	99-35-4	10.0	< 10.0	
1,3-Dichlorobenzene	541-73-1	10.0	< 10.0	
1,3-Dinitrobenzene	99-65-0	10.0	< 10.0	
1,4-Dichlorobenzene	106-46-7	10.0	< 10.0	
1,4-Dinitrobenzene	100-25-4	10.0	< 10.0	
1,4-Naphthoquinone	130-15-4	10.0	< 10.0	
1,4-Phenylenediamine	106-50-3	10.0	< 10.0	
1-Chloronaphthalene	90-13-1	10.0	< 10.0	
1-Methylnaphthalene	90-12-0	10.0	< 10.0	
1-Naphthylamine	134-32-7	10.0	< 10.0	
2,3,4,6-Tetrachlorophenol	58-90-2	10.0	< 10.0	
2,4,5-Trichlorophenol	95-95-4	10.0	< 10.0	
2,4,6-Trichlorophenol	88-06-2	10.0	< 10.0	
2,4-Dichlorophenol	120-83-2	10.0	< 10.0	
2,4-Dimethylphenol	105-67-9	10.0	< 10.0	
2,4-Dinitrophenol	51-28-5	10.0	< 10.0	
2,4-Dinitrotoluene	121-14-2	10.0	< 10.0	
2,6-Dichlorophenol	87-65-0	10.0	< 10.0	
2,6-Dinitrotoluene	606-20-2	10.0	< 10.0	
2-Acetylaminofluorene	53-96-3	10.0	< 10.0	
2-Chloronaphthalene	91-58-7	10.0	< 10.0	
2-Chlorophenol	95-57-8	10.0	< 10.0	
2-Methylnaphthalene	91-57-6	10.0	< 10.0	
2-Methylphenol	95-48-7	10.0	< 10.0	
2-Naphthylamine	91-59-8	10.0	< 10.0	
2-Nitroaniline	88-74-4	10.0	< 10.0	

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

Lab Sample ID: 1303706-006B
Client Sample ID: W Boom 3 / 4920497

Analyzed: 3/29/2013 1544h **Extracted:** 3/28/2013 807h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8270D

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
2-Nitrophenol	88-75-5	10.0	< 10.0	
2-Picoline	109-06-8	10.0	< 10.0	
3&4-Methylphenol		10.0	< 10.0	
3,3´-Dichlorobenzidine	91-94-1	10.0	< 10.0	
3,3´-Dimethylbenzidine	119-93-7	10.0	< 10.0	
3-Methylcholanthrene	56-49-5	10.0	< 10.0	
3-Nitroaniline	99-09-2	10.0	< 10.0	
4,6-Dinitro-2-methylphenol	534-52-1	10.0	< 10.0	
4-Aminobiphenyl	92-67-1	10.0	< 10.0	
4-Bromophenyl phenyl ether	101-55-3	10.0	< 10.0	
4-Chloro-3-methylphenol	59-50-7	10.0	< 10.0	
4-Chloroaniline	106-47-8	10.0	< 10.0	
4-Chlorophenyl phenyl ether	7005-72-3	10.0	< 10.0	
4-Nitroaniline	100-01-6	10.0	< 10.0	
4-Nitrophenol	100-02-7	10.0	< 10.0	
5-Nitro-o-toluidine	99-55-8	10.0	< 10.0	
7,12-Dimethylbenz(a)anthracene	57-97-6	10.0	< 10.0	
a,a-Dimethylphenethylamine	122-09-8	10.0	< 10.0	
Acenaphthene	83-32-9	10.0	< 10.0	
Acenaphthylene	208-96-8	10.0	< 10.0	
Acetophenone	98-86-2	10.0	< 10.0	
alpha-Terpineol	98-55-5	10.0	< 10.0	
Aniline	62-53-3	10.0	< 10.0	
Anthracene	120-12-7	10.0	< 10.0	
Aramite	140-57-8	10.0	< 10.0	
Atrazine	1912-24-9	10.0	< 10.0	
Azobenzene	103-33-3	10.0	< 10.0	
Benz(a)anthracene	56-55-3	10.0	< 10.0	
Benzaldehyde	100-52-7	10.0	< 10.0	
Benzidine	92-87-5	10.0	< 10.0	
Benzo(a)pyrene	50-32-8	10.0	< 10.0	
Benzo(b)fluoranthene	205-99-2	10.0	< 10.0	
Benzo(g,h,i)perylene	191-24-2	10.0	< 10.0	
Benzo(k)fluoranthene	207-08-9	10.0	< 10.0	
Benzoic acid	65-85-0	20.0	< 20.0	
Benzyl alcohol	100-51-6	10.0	< 10.0	
Bis(2-chloroethoxy)methane	111-91-1	10.0	< 10.0	

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Kyle F. Gross
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Jose Rocha
QA Officer

Lab Sample ID: 1303706-006B
Client Sample ID: W Boom 3 / 4920497

Analyzed: 3/29/2013 1544h **Extracted:** 3/28/2013 807h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8270D

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Bis(2-chloroethyl) ether	111-44-4	10.0	< 10.0	
Bis(2-chloroisopropyl) ether	108-60-1	10.0	< 10.0	
Bis(2-ethylhexyl) phthalate	117-81-7	10.0	< 10.0	
bis(2-ethylhexyl)adipate	103-23-1	10.0	< 10.0	
Butyl benzyl phthalate	85-68-7	10.0	< 10.0	
Caprolactam	105-60-2	10.0	< 10.0	
Carbazole	86-74-8	10.0	< 10.0	
Chlorobenzilate	510-15-6	10.0	< 10.0	
Chrysene	218-01-9	10.0	< 10.0	
Di-n-butyl phthalate	84-74-2	10.0	< 10.0	
Di-n-octyl phthalate	117-84-0	10.0	< 10.0	
Diallate (cis or trans)	2303-16-4	10.0	< 10.0	
Dibenz(a,h)anthracene	53-70-3	10.0	< 10.0	
Dibenzofuran	132-64-9	10.0	< 10.0	
Diethyl phthalate	84-66-2	10.0	< 10.0	
Dimethoate	60-51-5	10.0	< 10.0	
Dimethyl phthalate	131-11-3	10.0	< 10.0	
Dimethylaminoazobenzene	60-11-7	10.0	< 10.0	
Dinoseb	88-85-7	10.0	< 10.0	
Diphenylamine	122-39-4	10.0	< 10.0	
Disulfoton	298-04-4	10.0	< 10.0	
Ethyl methanesulfonate	62-50-0	10.0	< 10.0	
Famphur	52-85-7	10.0	< 10.0	
Fluoranthene	206-44-0	10.0	< 10.0	
Fluorene	86-73-7	10.0	< 10.0	
Hexachlorobenzene	118-74-1	10.0	< 10.0	
Hexachlorobutadiene	87-68-3	10.0	< 10.0	
Hexachlorocyclopentadiene	77-47-4	10.0	< 10.0	
Hexachloroethane	67-72-1	10.0	< 10.0	
Hexachlorophene	70-30-4	10.0	< 10.0	
Hexachloropropene	1888-71-7	10.0	< 10.0	
Indene	95-13-6	10.0	< 10.0	
Indeno(1,2,3-cd)pyrene	193-39-5	10.0	< 10.0	
Isodrin	465-73-6	10.0	< 10.0	
Isophorone	78-59-1	10.0	< 10.0	
Isosafrole	120-58-1	10.0	< 10.0	
Kepone	143-50-0	10.0	< 10.0	

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

Lab Sample ID: 1303706-006B
Client Sample ID: W Boom 3 / 4920497

Analyzed: 3/29/2013 1544h **Extracted:** 3/28/2013 807h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8270D

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Methapyrilene	91-80-5	10.0	< 10.0	
Methyl methanesulfonate	66-27-3	10.0	< 10.0	
n-Decane	124-18-5	10.0	< 10.0	
N-Nitrosodi-n-butylamine	924-16-3	10.0	< 10.0	
N-Nitrosodiethylamine	55-18-5	10.0	< 10.0	
N-Nitrosodimethylamine	62-75-9	10.0	< 10.0	
N-Nitrosodiphenylamine	86-30-6	10.0	< 10.0	
N-Nitrosodi-n-propylamine	621-64-7	10.0	< 10.0	
N-Nitrosomethylethylamine	10595-95-6	10.0	< 10.0	
N-Nitrosomorpholine	59-89-2	10.0	< 10.0	
N-Nitrosopiperidine	100-75-4	10.0	< 10.0	
N-Nitrosopyrrolidine	930-55-2	10.0	< 10.0	
n-Octadecane	593-45-3	10.0	< 10.0	
Naphthalene	91-20-3	10.0	< 10.0	
Nitrobenzene	98-95-3	10.0	< 10.0	
Nitroquinoline-1-oxide	56-57-5	10.0	< 10.0	
O,O,O-Triethyl phosphorothioate	126-68-1	10.0	< 10.0	
o-Toluidine	95-53-4	10.0	< 10.0	
Parathion	56-38-2	10.0	< 10.0	
Methyl parathion	298-00-0	10.0	< 10.0	
Pentachlorobenzene	608-93-5	10.0	< 10.0	
Pentachloronitrobenzene	82-68-8	10.0	< 10.0	
Pentachlorophenol	87-86-5	10.0	< 10.0	
Phenacetin	62-44-2	10.0	< 10.0	
Phenanthrene	85-01-8	10.0	< 10.0	
Phenol	108-95-2	10.0	< 10.0	
Phorate	298-02-2	10.0	< 10.0	
Pronamide	23950-58-5	10.0	< 10.0	
Pyrene	129-00-0	10.0	< 10.0	
Pyridine	110-86-1	10.0	< 10.0	
Quinoline	91-22-5	10.0	< 10.0	
Safrole	94-59-7	10.0	< 10.0	
Tetraethyl dithiopyrophosphate	3689-24-5	10.0	< 10.0	
Thionazin	297-97-2	10.0	< 10.0	
TIC: 1-Eicosanol	000629-96-9		4.36	JN

All analyses applicable to the CWA, SDWA, and RCRA are performed in accordance to NELAC protocols. Pertinent sampling information is located on the attached COC. This report is provided for the exclusive use of the addressee. Privileges of subsequent use of the name of this company or any member of its staff, or reproduction of this report in connection with the advertisement, promotion or sale of any product or process, or in connection with the re-publication of this report for any purpose other than for the addressee will be granted only on contact. This company accepts no responsibility except for the due performance of inspection and/or analysis in good faith and according to the rules of the trade and of science.

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

Lab Sample ID: 1303706-006B
Client Sample ID: W Boom 3 / 4920497

Analyzed: 3/29/2013 1544h **Extracted:** 3/28/2013 807h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8270D

Compound	CAS Number	Reporting Limit	Analytical Result	Qual

Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 2,4,6-Tribromophenol	118-79-6	60.1	80.00	75.1	14-159	
Surr: 2-Fluorobiphenyl	321-60-8	16.7	40.00	41.8	10-124	
Surr: 2-Fluorophenol	367-12-4	21.7	80.00	27.1	10-106	
Surr: Nitrobenzene-d5	4165-60-0	12.1	40.00	30.3	10-180	
Surr: Phenol-d6	13127-88-3	15.9	80.00	19.9	10-122	
Surr: Terphenyl-d14	1718-51-0	42.5	40.00	106	10-199	

J - This flag indicates an estimated value.
N - This flag indicates presumptive evidence of a compound.
This sample was analyzed for TICs.

All analyses applicable to the CWA, SDWA, and RCRA are performed in accordance to NELAC protocols. Pertinent sampling information is located on the attached COC. This report is provided for the exclusive use of the addressee. Privileges of subsequent use of the name of this company or any member of its staff, or reproduction of this report in connection with the advertisement, promotion or sale of any product or process, or in connection with the re-publication of this report for any purpose other than for the addressee will be granted only on contact. This company accepts no responsibility except for the due performance of inspection and/or analysis in good faith and according to the rules of the trade and of science.

ORGANIC ANALYTICAL REPORT

Client: Utah Division of Water Quality **Contact:** Chris Bittner
Project: MP 44.9
Lab Sample ID: 1303706-007B
Client Sample ID: W Boom 2 / 4920496
Collection Date: 3/27/2013 1130h
Received Date: 3/27/2013 1554h

Analytical Results SVOA List by GC/MS Method 8270D/3510C

Analyzed: 3/29/2013 1610h **Extracted:** 3/28/2013 807h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8270D

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
1,1´-Biphenyl	92-52-4	10.0	< 10.0	
1,2,4,5-Tetrachlorobenzene	95-94-3	10.0	< 10.0	
1,2,4-Trichlorobenzene	120-82-1	10.0	< 10.0	
1,2-Dichlorobenzene	95-50-1	10.0	< 10.0	
1,3,5-Trinitrobenzene	99-35-4	10.0	< 10.0	
1,3-Dichlorobenzene	541-73-1	10.0	< 10.0	
1,3-Dinitrobenzene	99-65-0	10.0	< 10.0	
1,4-Dichlorobenzene	106-46-7	10.0	< 10.0	
1,4-Dinitrobenzene	100-25-4	10.0	< 10.0	
1,4-Naphthoquinone	130-15-4	10.0	< 10.0	
1,4-Phenylenediamine	106-50-3	10.0	< 10.0	
1-Chloronaphthalene	90-13-1	10.0	< 10.0	
1-Methylnaphthalene	90-12-0	10.0	< 10.0	
1-Naphthylamine	134-32-7	10.0	< 10.0	
2,3,4,6-Tetrachlorophenol	58-90-2	10.0	< 10.0	
2,4,5-Trichlorophenol	95-95-4	10.0	< 10.0	
2,4,6-Trichlorophenol	88-06-2	10.0	< 10.0	
2,4-Dichlorophenol	120-83-2	10.0	< 10.0	
2,4-Dimethylphenol	105-67-9	10.0	< 10.0	
2,4-Dinitrophenol	51-28-5	10.0	< 10.0	
2,4-Dinitrotoluene	121-14-2	10.0	< 10.0	
2,6-Dichlorophenol	87-65-0	10.0	< 10.0	
2,6-Dinitrotoluene	606-20-2	10.0	< 10.0	
2-Acetylaminofluorene	53-96-3	10.0	< 10.0	
2-Chloronaphthalene	91-58-7	10.0	< 10.0	
2-Chlorophenol	95-57-8	10.0	< 10.0	
2-Methylnaphthalene	91-57-6	10.0	< 10.0	
2-Methylphenol	95-48-7	10.0	< 10.0	
2-Naphthylamine	91-59-8	10.0	< 10.0	
2-Nitroaniline	88-74-4	10.0	< 10.0	

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

Lab Sample ID: 1303706-007B
Client Sample ID: W Boom 2 / 4920496

Analyzed: 3/29/2013 1610h **Extracted:** 3/28/2013 807h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8270D

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
2-Nitrophenol	88-75-5	10.0	< 10.0	
2-Picoline	109-06-8	10.0	< 10.0	
3&4-Methylphenol		10.0	< 10.0	
3,3´-Dichlorobenzidine	91-94-1	10.0	< 10.0	
3,3´-Dimethylbenzidine	119-93-7	10.0	< 10.0	
3-Methylcholanthrene	56-49-5	10.0	< 10.0	
3-Nitroaniline	99-09-2	10.0	< 10.0	
4,6-Dinitro-2-methylphenol	534-52-1	10.0	< 10.0	
4-Aminobiphenyl	92-67-1	10.0	< 10.0	
4-Bromophenyl phenyl ether	101-55-3	10.0	< 10.0	
4-Chloro-3-methylphenol	59-50-7	10.0	< 10.0	
4-Chloroaniline	106-47-8	10.0	< 10.0	
4-Chlorophenyl phenyl ether	7005-72-3	10.0	< 10.0	
4-Nitroaniline	100-01-6	10.0	< 10.0	
4-Nitrophenol	100-02-7	10.0	< 10.0	
5-Nitro-o-toluidine	99-55-8	10.0	< 10.0	
7,12-Dimethylbenz(a)anthracene	57-97-6	10.0	< 10.0	
a,a-Dimethylphenethylamine	122-09-8	10.0	< 10.0	
Acenaphthene	83-32-9	10.0	< 10.0	
Acenaphthylene	208-96-8	10.0	< 10.0	
Acetophenone	98-86-2	10.0	< 10.0	
alpha-Terpineol	98-55-5	10.0	< 10.0	
Aniline	62-53-3	10.0	< 10.0	
Anthracene	120-12-7	10.0	< 10.0	
Aramite	140-57-8	10.0	< 10.0	
Atrazine	1912-24-9	10.0	< 10.0	
Azobenzene	103-33-3	10.0	< 10.0	
Benz(a)anthracene	56-55-3	10.0	< 10.0	
Benzaldehyde	100-52-7	10.0	< 10.0	
Benzidine	92-87-5	10.0	< 10.0	
Benzo(a)pyrene	50-32-8	10.0	< 10.0	
Benzo(b)fluoranthene	205-99-2	10.0	< 10.0	
Benzo(g,h,i)perylene	191-24-2	10.0	< 10.0	
Benzo(k)fluoranthene	207-08-9	10.0	< 10.0	
Benzoic acid	65-85-0	20.0	< 20.0	
Benzyl alcohol	100-51-6	10.0	< 10.0	
Bis(2-chloroethoxy)methane	111-91-1	10.0	< 10.0	

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

Lab Sample ID: 1303706-007B
Client Sample ID: W Boom 2 / 4920496

Analyzed: 3/29/2013 1610h **Extracted:** 3/28/2013 807h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8270D

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Bis(2-chloroethyl) ether	111-44-4	10.0	< 10.0	
Bis(2-chloroisopropyl) ether	108-60-1	10.0	< 10.0	
Bis(2-ethylhexyl) phthalate	117-81-7	10.0	< 10.0	
bis(2-ethylhexyl)adipate	103-23-1	10.0	< 10.0	
Butyl benzyl phthalate	85-68-7	10.0	< 10.0	
Caprolactam	105-60-2	10.0	< 10.0	
Carbazole	86-74-8	10.0	< 10.0	
Chlorobenzilate	510-15-6	10.0	< 10.0	
Chrysene	218-01-9	10.0	< 10.0	
Di-n-butyl phthalate	84-74-2	10.0	< 10.0	
Di-n-octyl phthalate	117-84-0	10.0	< 10.0	
Diallate (cis or trans)	2303-16-4	10.0	< 10.0	
Dibenz(a,h)anthracene	53-70-3	10.0	< 10.0	
Dibenzofuran	132-64-9	10.0	< 10.0	
Diethyl phthalate	84-66-2	10.0	< 10.0	
Dimethoate	60-51-5	10.0	< 10.0	
Dimethyl phthalate	131-11-3	10.0	< 10.0	
Dimethylaminoazobenzene	60-11-7	10.0	< 10.0	
Dinoseb	88-85-7	10.0	< 10.0	
Diphenylamine	122-39-4	10.0	< 10.0	
Disulfoton	298-04-4	10.0	< 10.0	
Ethyl methanesulfonate	62-50-0	10.0	< 10.0	
Famphur	52-85-7	10.0	< 10.0	
Fluoranthene	206-44-0	10.0	< 10.0	
Fluorene	86-73-7	10.0	< 10.0	
Hexachlorobenzene	118-74-1	10.0	< 10.0	
Hexachlorobutadiene	87-68-3	10.0	< 10.0	
Hexachlorocyclopentadiene	77-47-4	10.0	< 10.0	
Hexachloroethane	67-72-1	10.0	< 10.0	
Hexachlorophene	70-30-4	10.0	< 10.0	
Hexachloropropene	1888-71-7	10.0	< 10.0	
Indene	95-13-6	10.0	< 10.0	
Indeno(1,2,3-cd)pyrene	193-39-5	10.0	< 10.0	
Isodrin	465-73-6	10.0	< 10.0	
Isophorone	78-59-1	10.0	< 10.0	
Isosafrole	120-58-1	10.0	< 10.0	
Kepone	143-50-0	10.0	< 10.0	

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

Lab Sample ID: 1303706-007B
Client Sample ID: W Boom 2 / 4920496

Analyzed: 3/29/2013 1610h **Extracted:** 3/28/2013 807h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8270D

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Methapyrilene	91-80-5	10.0	< 10.0	
Methyl methanesulfonate	66-27-3	10.0	< 10.0	
n-Decane	124-18-5	10.0	< 10.0	
N-Nitrosodi-n-butylamine	924-16-3	10.0	< 10.0	
N-Nitrosodiethylamine	55-18-5	10.0	< 10.0	
N-Nitrosodimethylamine	62-75-9	10.0	< 10.0	
N-Nitrosodiphenylamine	86-30-6	10.0	< 10.0	
N-Nitrosodi-n-propylamine	621-64-7	10.0	< 10.0	
N-Nitrosomethylethylamine	10595-95-6	10.0	< 10.0	
N-Nitrosomorpholine	59-89-2	10.0	< 10.0	
N-Nitrosopiperidine	100-75-4	10.0	< 10.0	
N-Nitrosopyrrolidine	930-55-2	10.0	< 10.0	
n-Octadecane	593-45-3	10.0	< 10.0	
Naphthalene	91-20-3	10.0	< 10.0	
Nitrobenzene	98-95-3	10.0	< 10.0	
Nitroquinoline-1-oxide	56-57-5	10.0	< 10.0	
O,O,O-Triethyl phosphorothioate	126-68-1	10.0	< 10.0	
o-Toluidine	95-53-4	10.0	< 10.0	
Parathion	56-38-2	10.0	< 10.0	
Methyl parathion	298-00-0	10.0	< 10.0	
Pentachlorobenzene	608-93-5	10.0	< 10.0	
Pentachloronitrobenzene	82-68-8	10.0	< 10.0	
Pentachlorophenol	87-86-5	10.0	< 10.0	
Phenacetin	62-44-2	10.0	< 10.0	
Phenanthrene	85-01-8	10.0	< 10.0	
Phenol	108-95-2	10.0	< 10.0	
Phorate	298-02-2	10.0	< 10.0	
Pronamide	23950-58-5	10.0	< 10.0	
Pyrene	129-00-0	10.0	< 10.0	
Pyridine	110-86-1	10.0	< 10.0	
Quinoline	91-22-5	10.0	< 10.0	
Safrole	94-59-7	10.0	< 10.0	
Tetraethyl dithiopyrophosphate	3689-24-5	10.0	< 10.0	
Thionazin	297-97-2	10.0	< 10.0	
TIC: Trichloroacetic acid, hexad…	074339-54-1		7.04	JN

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

Lab Sample ID: 1303706-007B
Client Sample ID: W Boom 2 / 4920496

Analyzed: 3/29/2013 1610h **Extracted:** 3/28/2013 807h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8270D

Compound	CAS Number	Reporting Limit	Analytical Result	Qual

Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 2,4,6-Tribromophenol	118-79-6	52.3	80.00	65.4	14-159	
Surr: 2-Fluorobiphenyl	321-60-8	13.3	40.00	33.2	10-124	
Surr: 2-Fluorophenol	367-12-4	21.2	80.00	26.5	10-106	
Surr: Nitrobenzene-d5	4165-60-0	10.2	40.00	25.4	10-180	
Surr: Phenol-d6	13127-88-3	15.4	80.00	19.3	10-122	
Surr: Terphenyl-d14	1718-51-0	34.4	40.00	85.9	10-199	

J - This flag indicates an estimated value.
N - This flag indicates presumptive evidence of a compound.
This sample was analyzed for TICs.

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ORGANIC ANALYTICAL REPORT

Client: Utah Division of Water Quality **Contact:** Chris Bittner
Project: MP 44.9
Lab Sample ID: 1303706-008B
Client Sample ID: W Boom 1 / 4920396
Collection Date: 3/27/2013 1140h
Received Date: 3/27/2013 1554h

Analytical Results SVOA List by GC/MS Method 8270D/3510C

Analyzed: 3/29/2013 1637h **Extracted:** 3/28/2013 807h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8270D

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Kyle F. Gross
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Jose Rocha
QA Officer

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
1,1´-Biphenyl	92-52-4	10.0	< 10.0	
1,2,4,5-Tetrachlorobenzene	95-94-3	10.0	< 10.0	
1,2,4-Trichlorobenzene	120-82-1	10.0	< 10.0	
1,2-Dichlorobenzene	95-50-1	10.0	< 10.0	
1,3,5-Trinitrobenzene	99-35-4	10.0	< 10.0	
1,3-Dichlorobenzene	541-73-1	10.0	< 10.0	
1,3-Dinitrobenzene	99-65-0	10.0	< 10.0	
1,4-Dichlorobenzene	106-46-7	10.0	< 10.0	
1,4-Dinitrobenzene	100-25-4	10.0	< 10.0	
1,4-Naphthoquinone	130-15-4	10.0	< 10.0	
1,4-Phenylenediamine	106-50-3	10.0	< 10.0	
1-Chloronaphthalene	90-13-1	10.0	< 10.0	
1-Methylnaphthalene	90-12-0	10.0	< 10.0	
1-Naphthylamine	134-32-7	10.0	< 10.0	
2,3,4,6-Tetrachlorophenol	58-90-2	10.0	< 10.0	
2,4,5-Trichlorophenol	95-95-4	10.0	< 10.0	
2,4,6-Trichlorophenol	88-06-2	10.0	< 10.0	
2,4-Dichlorophenol	120-83-2	10.0	< 10.0	
2,4-Dimethylphenol	105-67-9	10.0	< 10.0	
2,4-Dinitrophenol	51-28-5	10.0	< 10.0	
2,4-Dinitrotoluene	121-14-2	10.0	< 10.0	
2,6-Dichlorophenol	87-65-0	10.0	< 10.0	
2,6-Dinitrotoluene	606-20-2	10.0	< 10.0	
2-Acetylaminofluorene	53-96-3	10.0	< 10.0	
2-Chloronaphthalene	91-58-7	10.0	< 10.0	
2-Chlorophenol	95-57-8	10.0	< 10.0	
2-Methylnaphthalene	91-57-6	10.0	< 10.0	
2-Methylphenol	95-48-7	10.0	< 10.0	
2-Naphthylamine	91-59-8	10.0	< 10.0	
2-Nitroaniline	88-74-4	10.0	< 10.0	

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Kyle F. Gross
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Jose Rocha
QA Officer

Lab Sample ID: 1303706-008B
Client Sample ID: W Boom 1 / 4920396

Analyzed: 3/29/2013 1637h **Extracted:** 3/28/2013 807h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8270D

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
2-Nitrophenol	88-75-5	10.0	< 10.0	
2-Picoline	109-06-8	10.0	< 10.0	
3&4-Methylphenol		10.0	< 10.0	
3,3´-Dichlorobenzidine	91-94-1	10.0	< 10.0	
3,3´-Dimethylbenzidine	119-93-7	10.0	< 10.0	
3-Methylcholanthrene	56-49-5	10.0	< 10.0	
3-Nitroaniline	99-09-2	10.0	< 10.0	
4,6-Dinitro-2-methylphenol	534-52-1	10.0	< 10.0	
4-Aminobiphenyl	92-67-1	10.0	< 10.0	
4-Bromophenyl phenyl ether	101-55-3	10.0	< 10.0	
4-Chloro-3-methylphenol	59-50-7	10.0	< 10.0	
4-Chloroaniline	106-47-8	10.0	< 10.0	
4-Chlorophenyl phenyl ether	7005-72-3	10.0	< 10.0	
4-Nitroaniline	100-01-6	10.0	< 10.0	
4-Nitrophenol	100-02-7	10.0	< 10.0	
5-Nitro-o-toluidine	99-55-8	10.0	< 10.0	
7,12-Dimethylbenz(a)anthracene	57-97-6	10.0	< 10.0	
a,a-Dimethylphenethylamine	122-09-8	10.0	< 10.0	
Acenaphthene	83-32-9	10.0	< 10.0	
Acenaphthylene	208-96-8	10.0	< 10.0	
Acetophenone	98-86-2	10.0	< 10.0	
alpha-Terpineol	98-55-5	10.0	< 10.0	
Aniline	62-53-3	10.0	< 10.0	
Anthracene	120-12-7	10.0	< 10.0	
Aramite	140-57-8	10.0	< 10.0	
Atrazine	1912-24-9	10.0	< 10.0	
Azobenzene	103-33-3	10.0	< 10.0	
Benz(a)anthracene	56-55-3	10.0	< 10.0	
Benzaldehyde	100-52-7	10.0	< 10.0	
Benzidine	92-87-5	10.0	< 10.0	
Benzo(a)pyrene	50-32-8	10.0	< 10.0	
Benzo(b)fluoranthene	205-99-2	10.0	< 10.0	
Benzo(g,h,i)perylene	191-24-2	10.0	< 10.0	
Benzo(k)fluoranthene	207-08-9	10.0	< 10.0	
Benzoic acid	65-85-0	20.0	< 20.0	
Benzyl alcohol	100-51-6	10.0	< 10.0	
Bis(2-chloroethoxy)methane	111-91-1	10.0	< 10.0	

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Lab Sample ID: 1303706-008B
Client Sample ID: W Boom 1 / 4920396

Analyzed: 3/29/2013 1637h **Extracted:** 3/28/2013 807h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8270D

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Bis(2-chloroethyl) ether	111-44-4	10.0	< 10.0	
Bis(2-chloroisopropyl) ether	108-60-1	10.0	< 10.0	
Bis(2-ethylhexyl) phthalate	117-81-7	10.0	< 10.0	
bis(2-ethylhexyl)adipate	103-23-1	10.0	< 10.0	
Butyl benzyl phthalate	85-68-7	10.0	< 10.0	
Caprolactam	105-60-2	10.0	< 10.0	
Carbazole	86-74-8	10.0	< 10.0	
Chlorobenzilate	510-15-6	10.0	< 10.0	
Chrysene	218-01-9	10.0	< 10.0	
Di-n-butyl phthalate	84-74-2	10.0	< 10.0	
Di-n-octyl phthalate	117-84-0	10.0	< 10.0	
Diallate (cis or trans)	2303-16-4	10.0	< 10.0	
Dibenz(a,h)anthracene	53-70-3	10.0	< 10.0	
Dibenzofuran	132-64-9	10.0	< 10.0	
Diethyl phthalate	84-66-2	10.0	< 10.0	
Dimethoate	60-51-5	10.0	< 10.0	
Dimethyl phthalate	131-11-3	10.0	< 10.0	
Dimethylaminoazobenzene	60-11-7	10.0	< 10.0	
Dinoseb	88-85-7	10.0	< 10.0	
Diphenylamine	122-39-4	10.0	< 10.0	
Disulfoton	298-04-4	10.0	< 10.0	
Ethyl methanesulfonate	62-50-0	10.0	< 10.0	
Famphur	52-85-7	10.0	< 10.0	
Fluoranthene	206-44-0	10.0	< 10.0	
Fluorene	86-73-7	10.0	< 10.0	
Hexachlorobenzene	118-74-1	10.0	< 10.0	
Hexachlorobutadiene	87-68-3	10.0	< 10.0	
Hexachlorocyclopentadiene	77-47-4	10.0	< 10.0	
Hexachloroethane	67-72-1	10.0	< 10.0	
Hexachlorophene	70-30-4	10.0	< 10.0	
Hexachloropropene	1888-71-7	10.0	< 10.0	
Indene	95-13-6	10.0	< 10.0	
Indeno(1,2,3-cd)pyrene	193-39-5	10.0	< 10.0	
Isodrin	465-73-6	10.0	< 10.0	
Isophorone	78-59-1	10.0	< 10.0	
Isosafrole	120-58-1	10.0	< 10.0	
Kepone	143-50-0	10.0	< 10.0	

All analyses applicable to the CWA, SDWA, and RCRA are performed in accordance to NELAC protocols. Pertinent sampling information is located on the attached COC. This report is provided for the exclusive use of the addressee. Privileges of subsequent use of the name of this company or any member of its staff, or reproduction of this report in connection with the advertisement, promotion or sale of any product or process, or in connection with the re-publication of this report for any purpose other than for the addressee will be granted only on contact. This company accepts no responsibility except for the due performance of inspection and/or analysis in good faith and according to the rules of the trade and of science.

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

Lab Sample ID: 1303706-008B
Client Sample ID: W Boom 1 / 4920396

Analyzed: 3/29/2013 1637h **Extracted:** 3/28/2013 807h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8270D

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Methapyrilene	91-80-5	10.0	< 10.0	
Methyl methanesulfonate	66-27-3	10.0	< 10.0	
n-Decane	124-18-5	10.0	< 10.0	
N-Nitrosodi-n-butylamine	924-16-3	10.0	< 10.0	
N-Nitrosodiethylamine	55-18-5	10.0	< 10.0	
N-Nitrosodimethylamine	62-75-9	10.0	< 10.0	
N-Nitrosodiphenylamine	86-30-6	10.0	< 10.0	
N-Nitrosodi-n-propylamine	621-64-7	10.0	< 10.0	
N-Nitrosomethylethylamine	10595-95-6	10.0	< 10.0	
N-Nitrosomorpholine	59-89-2	10.0	< 10.0	
N-Nitrosopiperidine	100-75-4	10.0	< 10.0	
N-Nitrosopyrrolidine	930-55-2	10.0	< 10.0	
n-Octadecane	593-45-3	10.0	< 10.0	
Naphthalene	91-20-3	10.0	< 10.0	
Nitrobenzene	98-95-3	10.0	< 10.0	
Nitroquinoline-1-oxide	56-57-5	10.0	< 10.0	
O,O,O-Triethyl phosphorothioate	126-68-1	10.0	< 10.0	
o-Toluidine	95-53-4	10.0	< 10.0	
Parathion	56-38-2	10.0	< 10.0	
Methyl parathion	298-00-0	10.0	< 10.0	
Pentachlorobenzene	608-93-5	10.0	< 10.0	
Pentachloronitrobenzene	82-68-8	10.0	< 10.0	
Pentachlorophenol	87-86-5	10.0	< 10.0	
Phenacetin	62-44-2	10.0	< 10.0	
Phenanthrene	85-01-8	10.0	< 10.0	
Phenol	108-95-2	10.0	< 10.0	
Phorate	298-02-2	10.0	< 10.0	
Pronamide	23950-58-5	10.0	< 10.0	
Pyrene	129-00-0	10.0	< 10.0	
Pyridine	110-86-1	10.0	< 10.0	
Quinoline	91-22-5	10.0	< 10.0	
Safrole	94-59-7	10.0	< 10.0	
Tetraethyl dithiopyrophosphate	3689-24-5	10.0	< 10.0	
Thionazin	297-97-2	10.0	< 10.0	
TIC: 1(2H)-Naphthalenone, 3,4-di…	006939-35-1		20.1	JN
TIC: 1H-Inden-1-ol, 2,3-dihydro-…	038393-92-9		16.6	JN
TIC: 2-Ethyl-1-H-indene	017059-50-6		16.5	JN

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

Lab Sample ID: 1303706-008B
Client Sample ID: W Boom 1 / 4920396

Analyzed: 3/29/2013 1637h **Extracted:** 3/28/2013 807h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8270D

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
TIC: 3-Hydroxymethylene-2-indoli…	063273-23-4		17.6	JN
TIC: 5,8-Dimethyl-1,2,3,4-tetrah…	032820-12-5		18.1	JN
TIC: Benzene, 1,2,4,5-tetraethyl-	000635-81-4		27.0	JN
TIC: Benzene, 1,2,4-trimethyl-5-…	010222-95-4		10.9	JN
TIC: Benzene, 1,2-diethyl-3,4-di…	054410-75-2		19.3	JN
TIC: Benzene, 1,4-bis(1-methylethenyl)-	001605-18-1		22.7	JN
TIC: Benzene, hexamethyl-	000087-85-4		11.3	JN

Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 2,4,6-Tribromophenol	118-79-6	55.7	80.00	69.6	14-159	
Surr: 2-Fluorobiphenyl	321-60-8	15.2	40.00	38.0	10-124	
Surr: 2-Fluorophenol	367-12-4	24.8	80.00	31.0	10-106	
Surr: Nitrobenzene-d5	4165-60-0	13.7	40.00	34.3	10-180	
Surr: Phenol-d6	13127-88-3	19.0	80.00	23.7	10-122	
Surr: Terphenyl-d14	1718-51-0	38.1	40.00	95.2	10-199	

J - This flag indicates an estimated value.
N - This flag indicates presumptive evidence of a compound.
This sample was analyzed for TICs.

All analyses applicable to the CWA, SDWA, and RCRA are performed in accordance to NELAC protocols. Pertinent sampling information is located on the attached COC. This report is provided for the exclusive use of the addressee. Privileges of subsequent use of the name of this company or any member of its staff, or reproduction of this report in connection with the advertisement, promotion or sale of any product or process, or in connection with the re-publication of this report for any purpose other than for the addressee will be granted only on contact. This company accepts no responsibility except for the due performance of inspection and/or analysis in good faith and according to the rules of the trade and of science.

ORGANIC ANALYTICAL REPORT

Client: Utah Division of Water Quality **Contact:** Chris Bittner
Project: MP 44.9
Lab Sample ID: 1303706-009B
Client Sample ID: 50' From 0397 / 4920508
Collection Date: 3/27/2013 1040h
Received Date: 3/27/2013 1554h

Analytical Results SVOA List by GC/MS Method 8270D/3510C

Analyzed: 3/29/2013 1704h **Extracted:** 3/28/2013 807h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8270D

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
1,1´-Biphenyl	92-52-4	10.0	< 10.0	
1,2,4,5-Tetrachlorobenzene	95-94-3	10.0	< 10.0	
1,2,4-Trichlorobenzene	120-82-1	10.0	< 10.0	
1,2-Dichlorobenzene	95-50-1	10.0	< 10.0	
1,3,5-Trinitrobenzene	99-35-4	10.0	< 10.0	
1,3-Dichlorobenzene	541-73-1	10.0	< 10.0	
1,3-Dinitrobenzene	99-65-0	10.0	< 10.0	
1,4-Dichlorobenzene	106-46-7	10.0	< 10.0	
1,4-Dinitrobenzene	100-25-4	10.0	< 10.0	
1,4-Naphthoquinone	130-15-4	10.0	< 10.0	
1,4-Phenylenediamine	106-50-3	10.0	< 10.0	
1-Chloronaphthalene	90-13-1	10.0	< 10.0	
1-Methylnaphthalene	90-12-0	10.0	< 10.0	
1-Naphthylamine	134-32-7	10.0	< 10.0	
2,3,4,6-Tetrachlorophenol	58-90-2	10.0	< 10.0	
2,4,5-Trichlorophenol	95-95-4	10.0	< 10.0	
2,4,6-Trichlorophenol	88-06-2	10.0	< 10.0	
2,4-Dichlorophenol	120-83-2	10.0	< 10.0	
2,4-Dimethylphenol	105-67-9	10.0	< 10.0	
2,4-Dinitrophenol	51-28-5	10.0	< 10.0	
2,4-Dinitrotoluene	121-14-2	10.0	< 10.0	
2,6-Dichlorophenol	87-65-0	10.0	< 10.0	
2,6-Dinitrotoluene	606-20-2	10.0	< 10.0	
2-Acetylaminofluorene	53-96-3	10.0	< 10.0	
2-Chloronaphthalene	91-58-7	10.0	< 10.0	
2-Chlorophenol	95-57-8	10.0	< 10.0	
2-Methylnaphthalene	91-57-6	10.0	< 10.0	
2-Methylphenol	95-48-7	10.0	< 10.0	
2-Naphthylamine	91-59-8	10.0	< 10.0	
2-Nitroaniline	88-74-4	10.0	< 10.0	

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

Lab Sample ID: 1303706-009B
Client Sample ID: 50' From 0397 / 4920508

Analyzed: 3/29/2013 1704h **Extracted:** 3/28/2013 807h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8270D

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
2-Nitrophenol	88-75-5	10.0	< 10.0	
2-Picoline	109-06-8	10.0	< 10.0	
3&4-Methylphenol		10.0	< 10.0	
3,3´-Dichlorobenzidine	91-94-1	10.0	< 10.0	
3,3´-Dimethylbenzidine	119-93-7	10.0	< 10.0	
3-Methylcholanthrene	56-49-5	10.0	< 10.0	
3-Nitroaniline	99-09-2	10.0	< 10.0	
4,6-Dinitro-2-methylphenol	534-52-1	10.0	< 10.0	
4-Aminobiphenyl	92-67-1	10.0	< 10.0	
4-Bromophenyl phenyl ether	101-55-3	10.0	< 10.0	
4-Chloro-3-methylphenol	59-50-7	10.0	< 10.0	
4-Chloroaniline	106-47-8	10.0	< 10.0	
4-Chlorophenyl phenyl ether	7005-72-3	10.0	< 10.0	
4-Nitroaniline	100-01-6	10.0	< 10.0	
4-Nitrophenol	100-02-7	10.0	< 10.0	
5-Nitro-o-toluidine	99-55-8	10.0	< 10.0	
7,12-Dimethylbenz(a)anthracene	57-97-6	10.0	< 10.0	
a,a-Dimethylphenethylamine	122-09-8	10.0	< 10.0	
Acenaphthene	83-32-9	10.0	< 10.0	
Acenaphthylene	208-96-8	10.0	< 10.0	
Acetophenone	98-86-2	10.0	< 10.0	
alpha-Terpineol	98-55-5	10.0	< 10.0	
Aniline	62-53-3	10.0	< 10.0	
Anthracene	120-12-7	10.0	< 10.0	
Aramite	140-57-8	10.0	< 10.0	
Atrazine	1912-24-9	10.0	< 10.0	
Azobenzene	103-33-3	10.0	< 10.0	
Benz(a)anthracene	56-55-3	10.0	< 10.0	
Benzaldehyde	100-52-7	10.0	< 10.0	
Benzidine	92-87-5	10.0	< 10.0	
Benzo(a)pyrene	50-32-8	10.0	< 10.0	
Benzo(b)fluoranthene	205-99-2	10.0	< 10.0	
Benzo(g,h,i)perylene	191-24-2	10.0	< 10.0	
Benzo(k)fluoranthene	207-08-9	10.0	< 10.0	
Benzoic acid	65-85-0	20.0	< 20.0	
Benzyl alcohol	100-51-6	10.0	< 10.0	
Bis(2-chloroethoxy)methane	111-91-1	10.0	< 10.0	

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

Lab Sample ID: 1303706-009B
Client Sample ID: 50' From 0397 / 4920508

Analyzed: 3/29/2013 1704h **Extracted:** 3/28/2013 807h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8270D

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Bis(2-chloroethyl) ether	111-44-4	10.0	< 10.0	
Bis(2-chloroisopropyl) ether	108-60-1	10.0	< 10.0	
Bis(2-ethylhexyl) phthalate	117-81-7	10.0	< 10.0	
bis(2-ethylhexyl)adipate	103-23-1	10.0	< 10.0	
Butyl benzyl phthalate	85-68-7	10.0	< 10.0	
Caprolactam	105-60-2	10.0	< 10.0	
Carbazole	86-74-8	10.0	< 10.0	
Chlorobenzilate	510-15-6	10.0	< 10.0	
Chrysene	218-01-9	10.0	< 10.0	
Di-n-butyl phthalate	84-74-2	10.0	< 10.0	
Di-n-octyl phthalate	117-84-0	10.0	< 10.0	
Diallate (cis or trans)	2303-16-4	10.0	< 10.0	
Dibenz(a,h)anthracene	53-70-3	10.0	< 10.0	
Dibenzofuran	132-64-9	10.0	< 10.0	
Diethyl phthalate	84-66-2	10.0	< 10.0	
Dimethoate	60-51-5	10.0	< 10.0	
Dimethyl phthalate	131-11-3	10.0	< 10.0	
Dimethylaminoazobenzene	60-11-7	10.0	< 10.0	
Dinoseb	88-85-7	10.0	< 10.0	
Diphenylamine	122-39-4	10.0	< 10.0	
Disulfoton	298-04-4	10.0	< 10.0	
Ethyl methanesulfonate	62-50-0	10.0	< 10.0	
Famphur	52-85-7	10.0	< 10.0	
Fluoranthene	206-44-0	10.0	< 10.0	
Fluorene	86-73-7	10.0	< 10.0	
Hexachlorobenzene	118-74-1	10.0	< 10.0	
Hexachlorobutadiene	87-68-3	10.0	< 10.0	
Hexachlorocyclopentadiene	77-47-4	10.0	< 10.0	
Hexachloroethane	67-72-1	10.0	< 10.0	
Hexachlorophene	70-30-4	10.0	< 10.0	
Hexachloropropene	1888-71-7	10.0	< 10.0	
Indene	95-13-6	10.0	< 10.0	
Indeno(1,2,3-cd)pyrene	193-39-5	10.0	< 10.0	
Isodrin	465-73-6	10.0	< 10.0	
Isophorone	78-59-1	10.0	< 10.0	
Isosafrole	120-58-1	10.0	< 10.0	
Kepone	143-50-0	10.0	< 10.0	

All analyses applicable to the CWA, SDWA, and RCRA are performed in accordance to NELAC protocols. Pertinent sampling information is located on the attached COC. This report is provided for the exclusive use of the addressee. Privileges of subsequent use of the name of this company or any member of its staff, or reproduction of this report in connection with the advertisement, promotion or sale of any product or process, or in connection with the re-publication of this report for any purpose other than for the addressee will be granted only on contact. This company accepts no responsibility except for the due performance of inspection and/or analysis in good faith and according to the rules of the trade and of science.

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

Lab Sample ID: 1303706-009B
Client Sample ID: 50' From 0397 / 4920508

Analyzed: 3/29/2013 1704h **Extracted:** 3/28/2013 807h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8270D

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Methapyrilene	91-80-5	10.0	< 10.0	
Methyl methanesulfonate	66-27-3	10.0	< 10.0	
n-Decane	124-18-5	10.0	< 10.0	
N-Nitrosodi-n-butylamine	924-16-3	10.0	< 10.0	
N-Nitrosodiethylamine	55-18-5	10.0	< 10.0	
N-Nitrosodimethylamine	62-75-9	10.0	< 10.0	
N-Nitrosodiphenylamine	86-30-6	10.0	< 10.0	
N-Nitrosodi-n-propylamine	621-64-7	10.0	< 10.0	
N-Nitrosomethylethylamine	10595-95-6	10.0	< 10.0	
N-Nitrosomorpholine	59-89-2	10.0	< 10.0	
N-Nitrosopiperidine	100-75-4	10.0	< 10.0	
N-Nitrosopyrrolidine	930-55-2	10.0	< 10.0	
n-Octadecane	593-45-3	10.0	< 10.0	
Naphthalene	91-20-3	10.0	< 10.0	
Nitrobenzene	98-95-3	10.0	< 10.0	
Nitroquinoline-1-oxide	56-57-5	10.0	< 10.0	
O,O,O-Triethyl phosphorothioate	126-68-1	10.0	< 10.0	
o-Toluidine	95-53-4	10.0	< 10.0	
Parathion	56-38-2	10.0	< 10.0	
Methyl parathion	298-00-0	10.0	< 10.0	
Pentachlorobenzene	608-93-5	10.0	< 10.0	
Pentachloronitrobenzene	82-68-8	10.0	< 10.0	
Pentachlorophenol	87-86-5	10.0	< 10.0	
Phenacetin	62-44-2	10.0	< 10.0	
Phenanthrene	85-01-8	10.0	< 10.0	
Phenol	108-95-2	10.0	< 10.0	
Phorate	298-02-2	10.0	< 10.0	
Pronamide	23950-58-5	10.0	< 10.0	
Pyrene	129-00-0	10.0	< 10.0	
Pyridine	110-86-1	10.0	< 10.0	
Quinoline	91-22-5	10.0	< 10.0	
Safrole	94-59-7	10.0	< 10.0	
Tetraethyl dithiopyrophosphate	3689-24-5	10.0	< 10.0	
Thionazin	297-97-2	10.0	< 10.0	
TIC: 3-Eicosene, (E)-	074685-33-9		7.13	JN

All analyses applicable to the CWA, SDWA, and RCRA are performed in accordance to NELAC protocols. Pertinent sampling information is located on the attached COC. This report is provided for the exclusive use of the addressee. Privileges of subsequent use of the name of this company or any member of its staff, or reproduction of this report in connection with the advertisement, promotion or sale of any product or process, or in connection with the re-publication of this report for any purpose other than for the addressee will be granted only on contact. This company accepts no responsibility except for the due performance of inspection and/or analysis in good faith and according to the rules of the trade and of science.

Lab Sample ID: 1303706-009B
Client Sample ID: 50' From 0397 / 4920508

Analyzed: 3/29/2013 1704h **Extracted:** 3/28/2013 807h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8270D

Compound	CAS Number	Reporting Limit	Analytical Result	Qual

Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 2,4,6-Tribromophenol	118-79-6	70.7	80.00	88.3	14-159	
Surr: 2-Fluorobiphenyl	321-60-8	22.5	40.00	56.2	10-124	
Surr: 2-Fluorophenol	367-12-4	28.6	80.00	35.8	10-106	
Surr: Nitrobenzene-d5	4165-60-0	17.3	40.00	43.2	10-180	
Surr: Phenol-d6	13127-88-3	20.8	80.00	26.0	10-122	
Surr: Terphenyl-d14	1718-51-0	42.9	40.00	107	10-199	

J - This flag indicates an estimated value.
N - This flag indicates presumptive evidence of a compound.
This sample was analyzed for TICs.

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Jose Rocha
QA Officer

All analyses applicable to the CWA, SDWA, and RCRA are performed in accordance to NELAC protocols. Pertinent sampling information is located on the attached COC. This report is provided for the exclusive use of the addressee. Privileges of subsequent use of the name of this company or any member of its staff, or reproduction of this report in connection with the advertisement, promotion or sale of any product or process, or in connection with the re-publication of this report for any purpose other than for the addressee will be granted only on contact. This company accepts no responsibility except for the due performance of inspection and/or analysis in good faith and according to the rules of the trade and of science.

ORGANIC ANALYTICAL REPORT

Client: Utah Division of Water Quality **Contact:** Chris Bittner
Project: MP 44.9
Lab Sample ID: 1303706-010B
Client Sample ID: 50' From 0498 / 4920502
Collection Date: 3/27/2013 1110h
Received Date: 3/27/2013 1554h

Analytical Results SVOA List by GC/MS Method 8270D/3510C

Analyzed: 3/29/2013 1731h **Extracted:** 3/28/2013 807h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8270D

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
1,1´-Biphenyl	92-52-4	10.0	< 10.0	
1,2,4,5-Tetrachlorobenzene	95-94-3	10.0	< 10.0	
1,2,4-Trichlorobenzene	120-82-1	10.0	< 10.0	
1,2-Dichlorobenzene	95-50-1	10.0	< 10.0	
1,3,5-Trinitrobenzene	99-35-4	10.0	< 10.0	
1,3-Dichlorobenzene	541-73-1	10.0	< 10.0	
1,3-Dinitrobenzene	99-65-0	10.0	< 10.0	
1,4-Dichlorobenzene	106-46-7	10.0	< 10.0	
1,4-Dinitrobenzene	100-25-4	10.0	< 10.0	
1,4-Naphthoquinone	130-15-4	10.0	< 10.0	
1,4-Phenylenediamine	106-50-3	10.0	< 10.0	
1-Chloronaphthalene	90-13-1	10.0	< 10.0	
1-Methylnaphthalene	90-12-0	10.0	< 10.0	
1-Naphthylamine	134-32-7	10.0	< 10.0	
2,3,4,6-Tetrachlorophenol	58-90-2	10.0	< 10.0	
2,4,5-Trichlorophenol	95-95-4	10.0	< 10.0	
2,4,6-Trichlorophenol	88-06-2	10.0	< 10.0	
2,4-Dichlorophenol	120-83-2	10.0	< 10.0	
2,4-Dimethylphenol	105-67-9	10.0	< 10.0	
2,4-Dinitrophenol	51-28-5	10.0	< 10.0	
2,4-Dinitrotoluene	121-14-2	10.0	< 10.0	
2,6-Dichlorophenol	87-65-0	10.0	< 10.0	
2,6-Dinitrotoluene	606-20-2	10.0	< 10.0	
2-Acetylaminofluorene	53-96-3	10.0	< 10.0	
2-Chloronaphthalene	91-58-7	10.0	< 10.0	
2-Chlorophenol	95-57-8	10.0	< 10.0	
2-Methylnaphthalene	91-57-6	10.0	< 10.0	
2-Methylphenol	95-48-7	10.0	< 10.0	
2-Naphthylamine	91-59-8	10.0	< 10.0	
2-Nitroaniline	88-74-4	10.0	< 10.0	

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

Lab Sample ID: 1303706-010B
Client Sample ID: 50' From 0498 / 4920502

Analyzed: 3/29/2013 1731h **Extracted:** 3/28/2013 807h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8270D

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
2-Nitrophenol	88-75-5	10.0	< 10.0	
2-Picoline	109-06-8	10.0	< 10.0	
3&4-Methylphenol		10.0	< 10.0	
3,3´-Dichlorobenzidine	91-94-1	10.0	< 10.0	
3,3´-Dimethylbenzidine	119-93-7	10.0	< 10.0	
3-Methylcholanthrene	56-49-5	10.0	< 10.0	
3-Nitroaniline	99-09-2	10.0	< 10.0	
4,6-Dinitro-2-methylphenol	534-52-1	10.0	< 10.0	
4-Aminobiphenyl	92-67-1	10.0	< 10.0	
4-Bromophenyl phenyl ether	101-55-3	10.0	< 10.0	
4-Chloro-3-methylphenol	59-50-7	10.0	< 10.0	
4-Chloroaniline	106-47-8	10.0	< 10.0	
4-Chlorophenyl phenyl ether	7005-72-3	10.0	< 10.0	
4-Nitroaniline	100-01-6	10.0	< 10.0	
4-Nitrophenol	100-02-7	10.0	< 10.0	
5-Nitro-o-toluidine	99-55-8	10.0	< 10.0	
7,12-Dimethylbenz(a)anthracene	57-97-6	10.0	< 10.0	
a,a-Dimethylphenethylamine	122-09-8	10.0	< 10.0	
Acenaphthene	83-32-9	10.0	< 10.0	
Acenaphthylene	208-96-8	10.0	< 10.0	
Acetophenone	98-86-2	10.0	< 10.0	
alpha-Terpineol	98-55-5	10.0	< 10.0	
Aniline	62-53-3	10.0	< 10.0	
Anthracene	120-12-7	10.0	< 10.0	
Aramite	140-57-8	10.0	< 10.0	
Atrazine	1912-24-9	10.0	< 10.0	
Azobenzene	103-33-3	10.0	< 10.0	
Benz(a)anthracene	56-55-3	10.0	< 10.0	
Benzaldehyde	100-52-7	10.0	< 10.0	
Benzidine	92-87-5	10.0	< 10.0	
Benzo(a)pyrene	50-32-8	10.0	< 10.0	
Benzo(b)fluoranthene	205-99-2	10.0	< 10.0	
Benzo(g,h,i)perylene	191-24-2	10.0	< 10.0	
Benzo(k)fluoranthene	207-08-9	10.0	< 10.0	
Benzoic acid	65-85-0	20.0	< 20.0	
Benzyl alcohol	100-51-6	10.0	< 10.0	
Bis(2-chloroethoxy)methane	111-91-1	10.0	< 10.0	

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

Lab Sample ID: 1303706-010B
Client Sample ID: 50' From 0498 / 4920502

Analyzed: 3/29/2013 1731h **Extracted:** 3/28/2013 807h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8270D

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Bis(2-chloroethyl) ether	111-44-4	10.0	< 10.0	
Bis(2-chloroisopropyl) ether	108-60-1	10.0	< 10.0	
Bis(2-ethylhexyl) phthalate	117-81-7	10.0	< 10.0	
bis(2-ethylhexyl)adipate	103-23-1	10.0	< 10.0	
Butyl benzyl phthalate	85-68-7	10.0	< 10.0	
Caprolactam	105-60-2	10.0	< 10.0	
Carbazole	86-74-8	10.0	< 10.0	
Chlorobenzilate	510-15-6	10.0	< 10.0	
Chrysene	218-01-9	10.0	< 10.0	
Di-n-butyl phthalate	84-74-2	10.0	< 10.0	
Di-n-octyl phthalate	117-84-0	10.0	< 10.0	
Diallate (cis or trans)	2303-16-4	10.0	< 10.0	
Dibenz(a,h)anthracene	53-70-3	10.0	< 10.0	
Dibenzofuran	132-64-9	10.0	< 10.0	
Diethyl phthalate	84-66-2	10.0	< 10.0	
Dimethoate	60-51-5	10.0	< 10.0	
Dimethyl phthalate	131-11-3	10.0	< 10.0	
Dimethylaminoazobenzene	60-11-7	10.0	< 10.0	
Dinoseb	88-85-7	10.0	< 10.0	
Diphenylamine	122-39-4	10.0	< 10.0	
Disulfoton	298-04-4	10.0	< 10.0	
Ethyl methanesulfonate	62-50-0	10.0	< 10.0	
Famphur	52-85-7	10.0	< 10.0	
Fluoranthene	206-44-0	10.0	< 10.0	
Fluorene	86-73-7	10.0	< 10.0	
Hexachlorobenzene	118-74-1	10.0	< 10.0	
Hexachlorobutadiene	87-68-3	10.0	< 10.0	
Hexachlorocyclopentadiene	77-47-4	10.0	< 10.0	
Hexachloroethane	67-72-1	10.0	< 10.0	
Hexachlorophene	70-30-4	10.0	< 10.0	
Hexachloropropene	1888-71-7	10.0	< 10.0	
Indene	95-13-6	10.0	< 10.0	
Indeno(1,2,3-cd)pyrene	193-39-5	10.0	< 10.0	
Isodrin	465-73-6	10.0	< 10.0	
Isophorone	78-59-1	10.0	< 10.0	
Isosafrole	120-58-1	10.0	< 10.0	
Kepone	143-50-0	10.0	< 10.0	

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

Lab Sample ID: 1303706-010B
Client Sample ID: 50' From 0498 / 4920502

Analyzed: 3/29/2013 1731h **Extracted:** 3/28/2013 807h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8270D

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Methapyrilene	91-80-5	10.0	< 10.0	
Methyl methanesulfonate	66-27-3	10.0	< 10.0	
n-Decane	124-18-5	10.0	< 10.0	
N-Nitrosodi-n-butylamine	924-16-3	10.0	< 10.0	
N-Nitrosodiethylamine	55-18-5	10.0	< 10.0	
N-Nitrosodimethylamine	62-75-9	10.0	< 10.0	
N-Nitrosodiphenylamine	86-30-6	10.0	< 10.0	
N-Nitrosodi-n-propylamine	621-64-7	10.0	< 10.0	
N-Nitrosomethylethylamine	10595-95-6	10.0	< 10.0	
N-Nitrosomorpholine	59-89-2	10.0	< 10.0	
N-Nitrosopiperidine	100-75-4	10.0	< 10.0	
N-Nitrosopyrrolidine	930-55-2	10.0	< 10.0	
n-Octadecane	593-45-3	10.0	< 10.0	
Naphthalene	91-20-3	10.0	< 10.0	
Nitrobenzene	98-95-3	10.0	< 10.0	
Nitroquinoline-1-oxide	56-57-5	10.0	< 10.0	
O,O,O-Triethyl phosphorothioate	126-68-1	10.0	< 10.0	
o-Toluidine	95-53-4	10.0	< 10.0	
Parathion	56-38-2	10.0	< 10.0	
Methyl parathion	298-00-0	10.0	< 10.0	
Pentachlorobenzene	608-93-5	10.0	< 10.0	
Pentachloronitrobenzene	82-68-8	10.0	< 10.0	
Pentachlorophenol	87-86-5	10.0	< 10.0	
Phenacetin	62-44-2	10.0	< 10.0	
Phenanthrene	85-01-8	10.0	< 10.0	
Phenol	108-95-2	10.0	< 10.0	
Phorate	298-02-2	10.0	< 10.0	
Pronamide	23950-58-5	10.0	< 10.0	
Pyrene	129-00-0	10.0	< 10.0	
Pyridine	110-86-1	10.0	< 10.0	
Quinoline	91-22-5	10.0	< 10.0	
Safrole	94-59-7	10.0	< 10.0	
Tetraethyl dithiopyrophosphate	3689-24-5	10.0	< 10.0	
Thionazin	297-97-2	10.0	< 10.0	
TIC: Bacteriochlorophyll-c-stearyl	1000164-49-7		4.80	JN

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Lab Sample ID: 1303706-010B
Client Sample ID: 50' From 0498 / 4920502

Analyzed: 3/29/2013 1731h **Extracted:** 3/28/2013 807h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8270D

Compound	CAS Number	Reporting Limit	Analytical Result	Qual

Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 2,4,6-Tribromophenol	118-79-6	65.2	80.00	81.5	14-159	
Surr: 2-Fluorobiphenyl	321-60-8	21.7	40.00	54.2	10-124	
Surr: 2-Fluorophenol	367-12-4	26.2	80.00	32.8	10-106	
Surr: Nitrobenzene-d5	4165-60-0	15.9	40.00	39.9	10-180	
Surr: Phenol-d6	13127-88-3	18.8	80.00	23.5	10-122	
Surr: Terphenyl-d14	1718-51-0	43.5	40.00	109	10-199	

J - This flag indicates an estimated value.
N - This flag indicates presumptive evidence of a compound.
This sample was analyzed for TICs.

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ORGANIC ANALYTICAL REPORT

Client: Utah Division of Water Quality **Contact:** Chris Bittner
Project: MP 44.9
Lab Sample ID: 1303706-011B
Client Sample ID: 50' From 0396 / 4920505
Collection Date: 3/27/2013 1150h
Received Date: 3/27/2013 1554h

Analytical Results SVOA List by GC/MS Method 8270D/3510C

Analyzed: 3/29/2013 1758h **Extracted:** 3/28/2013 807h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8270D

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
1,1´-Biphenyl	92-52-4	10.0	< 10.0	
1,2,4,5-Tetrachlorobenzene	95-94-3	10.0	< 10.0	
1,2,4-Trichlorobenzene	120-82-1	10.0	< 10.0	
1,2-Dichlorobenzene	95-50-1	10.0	< 10.0	
1,3,5-Trinitrobenzene	99-35-4	10.0	< 10.0	
1,3-Dichlorobenzene	541-73-1	10.0	< 10.0	
1,3-Dinitrobenzene	99-65-0	10.0	< 10.0	
1,4-Dichlorobenzene	106-46-7	10.0	< 10.0	
1,4-Dinitrobenzene	100-25-4	10.0	< 10.0	
1,4-Naphthoquinone	130-15-4	10.0	< 10.0	
1,4-Phenylenediamine	106-50-3	10.0	< 10.0	
1-Chloronaphthalene	90-13-1	10.0	< 10.0	
1-Methylnaphthalene	90-12-0	10.0	< 10.0	
1-Naphthylamine	134-32-7	10.0	< 10.0	
2,3,4,6-Tetrachlorophenol	58-90-2	10.0	< 10.0	
2,4,5-Trichlorophenol	95-95-4	10.0	< 10.0	
2,4,6-Trichlorophenol	88-06-2	10.0	< 10.0	
2,4-Dichlorophenol	120-83-2	10.0	< 10.0	
2,4-Dimethylphenol	105-67-9	10.0	< 10.0	
2,4-Dinitrophenol	51-28-5	10.0	< 10.0	
2,4-Dinitrotoluene	121-14-2	10.0	< 10.0	
2,6-Dichlorophenol	87-65-0	10.0	< 10.0	
2,6-Dinitrotoluene	606-20-2	10.0	< 10.0	
2-Acetylaminofluorene	53-96-3	10.0	< 10.0	
2-Chloronaphthalene	91-58-7	10.0	< 10.0	
2-Chlorophenol	95-57-8	10.0	< 10.0	
2-Methylnaphthalene	91-57-6	10.0	< 10.0	
2-Methylphenol	95-48-7	10.0	< 10.0	
2-Naphthylamine	91-59-8	10.0	< 10.0	
2-Nitroaniline	88-74-4	10.0	< 10.0	

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

Lab Sample ID: 1303706-011B
Client Sample ID: 50' From 0396 / 4920505

Analyzed: 3/29/2013 1758h **Extracted:** 3/28/2013 807h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8270D

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
2-Nitrophenol	88-75-5	10.0	< 10.0	
2-Picoline	109-06-8	10.0	< 10.0	
3&4-Methylphenol		10.0	< 10.0	
3,3´-Dichlorobenzidine	91-94-1	10.0	< 10.0	
3,3´-Dimethylbenzidine	119-93-7	10.0	< 10.0	
3-Methylcholanthrene	56-49-5	10.0	< 10.0	
3-Nitroaniline	99-09-2	10.0	< 10.0	
4,6-Dinitro-2-methylphenol	534-52-1	10.0	< 10.0	
4-Aminobiphenyl	92-67-1	10.0	< 10.0	
4-Bromophenyl phenyl ether	101-55-3	10.0	< 10.0	
4-Chloro-3-methylphenol	59-50-7	10.0	< 10.0	
4-Chloroaniline	106-47-8	10.0	< 10.0	
4-Chlorophenyl phenyl ether	7005-72-3	10.0	< 10.0	
4-Nitroaniline	100-01-6	10.0	< 10.0	
4-Nitrophenol	100-02-7	10.0	< 10.0	
5-Nitro-o-toluidine	99-55-8	10.0	< 10.0	
7,12-Dimethylbenz(a)anthracene	57-97-6	10.0	< 10.0	
a,a-Dimethylphenethylamine	122-09-8	10.0	< 10.0	
Acenaphthene	83-32-9	10.0	< 10.0	
Acenaphthylene	208-96-8	10.0	< 10.0	
Acetophenone	98-86-2	10.0	< 10.0	
alpha-Terpineol	98-55-5	10.0	< 10.0	
Aniline	62-53-3	10.0	< 10.0	
Anthracene	120-12-7	10.0	< 10.0	
Aramite	140-57-8	10.0	< 10.0	
Atrazine	1912-24-9	10.0	< 10.0	
Azobenzene	103-33-3	10.0	< 10.0	
Benz(a)anthracene	56-55-3	10.0	< 10.0	
Benzaldehyde	100-52-7	10.0	< 10.0	
Benzidine	92-87-5	10.0	< 10.0	
Benzo(a)pyrene	50-32-8	10.0	< 10.0	
Benzo(b)fluoranthene	205-99-2	10.0	< 10.0	
Benzo(g,h,i)perylene	191-24-2	10.0	< 10.0	
Benzo(k)fluoranthene	207-08-9	10.0	< 10.0	
Benzoic acid	65-85-0	20.0	< 20.0	
Benzyl alcohol	100-51-6	10.0	< 10.0	
Bis(2-chloroethoxy)methane	111-91-1	10.0	< 10.0	

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Kyle F. Gross
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Jose Rocha
QA Officer

Lab Sample ID: 1303706-011B
Client Sample ID: 50' From 0396 / 4920505

Analyzed: 3/29/2013 1758h **Extracted:** 3/28/2013 807h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8270D

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Bis(2-chloroethyl) ether	111-44-4	10.0	< 10.0	
Bis(2-chloroisopropyl) ether	108-60-1	10.0	< 10.0	
Bis(2-ethylhexyl) phthalate	117-81-7	10.0	< 10.0	
bis(2-ethylhexyl)adipate	103-23-1	10.0	< 10.0	
Butyl benzyl phthalate	85-68-7	10.0	< 10.0	
Caprolactam	105-60-2	10.0	< 10.0	
Carbazole	86-74-8	10.0	< 10.0	
Chlorobenzilate	510-15-6	10.0	< 10.0	
Chrysene	218-01-9	10.0	< 10.0	
Di-n-butyl phthalate	84-74-2	10.0	< 10.0	
Di-n-octyl phthalate	117-84-0	10.0	< 10.0	
Diallate (cis or trans)	2303-16-4	10.0	< 10.0	
Dibenz(a,h)anthracene	53-70-3	10.0	< 10.0	
Dibenzofuran	132-64-9	10.0	< 10.0	
Diethyl phthalate	84-66-2	10.0	< 10.0	
Dimethoate	60-51-5	10.0	< 10.0	
Dimethyl phthalate	131-11-3	10.0	< 10.0	
Dimethylaminoazobenzene	60-11-7	10.0	< 10.0	
Dinoseb	88-85-7	10.0	< 10.0	
Diphenylamine	122-39-4	10.0	< 10.0	
Disulfoton	298-04-4	10.0	< 10.0	
Ethyl methanesulfonate	62-50-0	10.0	< 10.0	
Famphur	52-85-7	10.0	< 10.0	
Fluoranthene	206-44-0	10.0	< 10.0	
Fluorene	86-73-7	10.0	< 10.0	
Hexachlorobenzene	118-74-1	10.0	< 10.0	
Hexachlorobutadiene	87-68-3	10.0	< 10.0	
Hexachlorocyclopentadiene	77-47-4	10.0	< 10.0	
Hexachloroethane	67-72-1	10.0	< 10.0	
Hexachlorophene	70-30-4	10.0	< 10.0	
Hexachloropropene	1888-71-7	10.0	< 10.0	
Indene	95-13-6	10.0	< 10.0	
Indeno(1,2,3-cd)pyrene	193-39-5	10.0	< 10.0	
Isodrin	465-73-6	10.0	< 10.0	
Isophorone	78-59-1	10.0	< 10.0	
Isosafrole	120-58-1	10.0	< 10.0	
Kepone	143-50-0	10.0	< 10.0	

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

Lab Sample ID: 1303706-011B
Client Sample ID: 50' From 0396 / 4920505

Analyzed: 3/29/2013 1758h **Extracted:** 3/28/2013 807h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8270D

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Methapyrilene	91-80-5	10.0	< 10.0	
Methyl methanesulfonate	66-27-3	10.0	< 10.0	
n-Decane	124-18-5	10.0	< 10.0	
N-Nitrosodi-n-butylamine	924-16-3	10.0	< 10.0	
N-Nitrosodiethylamine	55-18-5	10.0	< 10.0	
N-Nitrosodimethylamine	62-75-9	10.0	< 10.0	
N-Nitrosodiphenylamine	86-30-6	10.0	< 10.0	
N-Nitrosodi-n-propylamine	621-64-7	10.0	< 10.0	
N-Nitrosomethylethylamine	10595-95-6	10.0	< 10.0	
N-Nitrosomorpholine	59-89-2	10.0	< 10.0	
N-Nitrosopiperidine	100-75-4	10.0	< 10.0	
N-Nitrosopyrrolidine	930-55-2	10.0	< 10.0	
n-Octadecane	593-45-3	10.0	< 10.0	
Naphthalene	91-20-3	10.0	< 10.0	
Nitrobenzene	98-95-3	10.0	< 10.0	
Nitroquinoline-1-oxide	56-57-5	10.0	< 10.0	
O,O,O-Triethyl phosphorothioate	126-68-1	10.0	< 10.0	
o-Toluidine	95-53-4	10.0	< 10.0	
Parathion	56-38-2	10.0	< 10.0	
Methyl parathion	298-00-0	10.0	< 10.0	
Pentachlorobenzene	608-93-5	10.0	< 10.0	
Pentachloronitrobenzene	82-68-8	10.0	< 10.0	
Pentachlorophenol	87-86-5	10.0	< 10.0	
Phenacetin	62-44-2	10.0	< 10.0	
Phenanthrene	85-01-8	10.0	< 10.0	
Phenol	108-95-2	10.0	< 10.0	
Phorate	298-02-2	10.0	< 10.0	
Pronamide	23950-58-5	10.0	< 10.0	
Pyrene	129-00-0	10.0	< 10.0	
Pyridine	110-86-1	10.0	< 10.0	
Quinoline	91-22-5	10.0	< 10.0	
Safrole	94-59-7	10.0	< 10.0	
Tetraethyl dithiopyrophosphate	3689-24-5	10.0	< 10.0	
Thionazin	297-97-2	10.0	< 10.0	
TIC: 3-Eicosene, (E)-	074685-33-9		5.81	JN

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Lab Sample ID: 1303706-011B
Client Sample ID: 50' From 0396 / 4920505

Analyzed: 3/29/2013 1758h **Extracted:** 3/28/2013 807h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8270D

Compound	CAS Number	Reporting Limit	Analytical Result	Qual

Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 2,4,6-Tribromophenol	118-79-6	63.6	80.00	79.5	14-159	
Surr: 2-Fluorobiphenyl	321-60-8	17.3	40.00	43.3	10-124	
Surr: 2-Fluorophenol	367-12-4	22.0	80.00	27.4	10-106	
Surr: Nitrobenzene-d5	4165-60-0	13.6	40.00	34.1	10-180	
Surr: Phenol-d6	13127-88-3	16.4	80.00	20.5	10-122	
Surr: Terphenyl-d14	1718-51-0	41.9	40.00	105	10-199	

J - This flag indicates an estimated value.
N - This flag indicates presumptive evidence of a compound.
This sample was analyzed for TICs.

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ORGANIC ANALYTICAL REPORT

Client: Utah Division of Water Quality **Contact:** Chris Bittner
Project: MP 44.9
Lab Sample ID: 1303706-014B
Client Sample ID: East of Boom / 4920395
Collection Date: 3/27/2013 1345h
Received Date: 3/27/2013 1554h

Analytical Results SVOA List by GC/MS Method 8270D/3510C

Analyzed: 3/29/2013 1825h **Extracted:** 3/28/2013 807h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8270D

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Jose Rocha
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Compound	CAS Number	Reporting Limit	Analytical Result	Qual
1,1´-Biphenyl	92-52-4	10.5	< 10.5	
1,2,4,5-Tetrachlorobenzene	95-94-3	10.5	< 10.5	
1,2,4-Trichlorobenzene	120-82-1	10.5	< 10.5	
1,2-Dichlorobenzene	95-50-1	10.5	< 10.5	
1,3,5-Trinitrobenzene	99-35-4	10.5	< 10.5	
1,3-Dichlorobenzene	541-73-1	10.5	< 10.5	
1,3-Dinitrobenzene	99-65-0	10.5	< 10.5	
1,4-Dichlorobenzene	106-46-7	10.5	< 10.5	
1,4-Dinitrobenzene	100-25-4	10.5	< 10.5	
1,4-Naphthoquinone	130-15-4	10.5	< 10.5	
1,4-Phenylenediamine	106-50-3	10.5	< 10.5	
1-Chloronaphthalene	90-13-1	10.5	< 10.5	
1-Methylnaphthalene	90-12-0	10.5	< 10.5	
1-Naphthylamine	134-32-7	10.5	< 10.5	
2,3,4,6-Tetrachlorophenol	58-90-2	10.5	< 10.5	
2,4,5-Trichlorophenol	95-95-4	10.5	< 10.5	
2,4,6-Trichlorophenol	88-06-2	10.5	< 10.5	
2,4-Dichlorophenol	120-83-2	10.5	< 10.5	
2,4-Dimethylphenol	105-67-9	10.5	< 10.5	
2,4-Dinitrophenol	51-28-5	10.5	< 10.5	
2,4-Dinitrotoluene	121-14-2	10.5	< 10.5	
2,6-Dichlorophenol	87-65-0	10.5	< 10.5	
2,6-Dinitrotoluene	606-20-2	10.5	< 10.5	
2-Acetylaminofluorene	53-96-3	10.5	< 10.5	
2-Chloronaphthalene	91-58-7	10.5	< 10.5	
2-Chlorophenol	95-57-8	10.5	< 10.5	
2-Methylnaphthalene	91-57-6	10.5	< 10.5	
2-Methylphenol	95-48-7	10.5	< 10.5	
2-Naphthylamine	91-59-8	10.5	< 10.5	
2-Nitroaniline	88-74-4	10.5	< 10.5	

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

Lab Sample ID: 1303706-014B
Client Sample ID: East of Boom / 4920395

Analyzed: 3/29/2013 1825h **Extracted:** 3/28/2013 807h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8270D

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
2-Nitrophenol	88-75-5	10.5	< 10.5	
2-Picoline	109-06-8	10.5	< 10.5	
3&4-Methylphenol		10.5	< 10.5	
3,3´-Dichlorobenzidine	91-94-1	10.5	< 10.5	
3,3´-Dimethylbenzidine	119-93-7	10.5	< 10.5	
3-Methylcholanthrene	56-49-5	10.5	< 10.5	
3-Nitroaniline	99-09-2	10.5	< 10.5	
4,6-Dinitro-2-methylphenol	534-52-1	10.5	< 10.5	
4-Aminobiphenyl	92-67-1	10.5	< 10.5	
4-Bromophenyl phenyl ether	101-55-3	10.5	< 10.5	
4-Chloro-3-methylphenol	59-50-7	10.5	< 10.5	
4-Chloroaniline	106-47-8	10.5	< 10.5	
4-Chlorophenyl phenyl ether	7005-72-3	10.5	< 10.5	
4-Nitroaniline	100-01-6	10.5	< 10.5	
4-Nitrophenol	100-02-7	10.5	< 10.5	
5-Nitro-o-toluidine	99-55-8	10.5	< 10.5	
7,12-Dimethylbenz(a)anthracene	57-97-6	10.5	< 10.5	
a,a-Dimethylphenethylamine	122-09-8	10.5	< 10.5	
Acenaphthene	83-32-9	10.5	< 10.5	
Acenaphthylene	208-96-8	10.5	< 10.5	
Acetophenone	98-86-2	10.5	< 10.5	
alpha-Terpineol	98-55-5	10.5	< 10.5	
Aniline	62-53-3	10.5	< 10.5	
Anthracene	120-12-7	10.5	< 10.5	
Aramite	140-57-8	10.5	< 10.5	
Atrazine	1912-24-9	10.5	< 10.5	
Azobenzene	103-33-3	10.5	< 10.5	
Benz(a)anthracene	56-55-3	10.5	< 10.5	
Benzaldehyde	100-52-7	10.5	< 10.5	
Benzidine	92-87-5	10.5	< 10.5	
Benzo(a)pyrene	50-32-8	10.5	< 10.5	
Benzo(b)fluoranthene	205-99-2	10.5	< 10.5	
Benzo(g,h,i)perylene	191-24-2	10.5	< 10.5	
Benzo(k)fluoranthene	207-08-9	10.5	< 10.5	
Benzoic acid	65-85-0	21.1	< 21.1	
Benzyl alcohol	100-51-6	10.5	< 10.5	
Bis(2-chloroethoxy)methane	111-91-1	10.5	< 10.5	

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Laboratory Director

Jose Rocha
QA Officer

Lab Sample ID: 1303706-014B
Client Sample ID: East of Boom / 4920395

Analyzed: 3/29/2013 1825h **Extracted:** 3/28/2013 807h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8270D

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Bis(2-chloroethyl) ether	111-44-4	10.5	< 10.5	
Bis(2-chloroisopropyl) ether	108-60-1	10.5	< 10.5	
Bis(2-ethylhexyl) phthalate	117-81-7	10.5	< 10.5	
bis(2-ethylhexyl)adipate	103-23-1	10.5	< 10.5	
Butyl benzyl phthalate	85-68-7	10.5	< 10.5	
Caprolactam	105-60-2	10.5	< 10.5	
Carbazole	86-74-8	10.5	< 10.5	
Chlorobenzilate	510-15-6	10.5	< 10.5	
Chrysene	218-01-9	10.5	< 10.5	
Di-n-butyl phthalate	84-74-2	10.5	< 10.5	
Di-n-octyl phthalate	117-84-0	10.5	< 10.5	
Diallate (cis or trans)	2303-16-4	10.5	< 10.5	
Dibenz(a,h)anthracene	53-70-3	10.5	< 10.5	
Dibenzofuran	132-64-9	10.5	< 10.5	
Diethyl phthalate	84-66-2	10.5	< 10.5	
Dimethoate	60-51-5	10.5	< 10.5	
Dimethyl phthalate	131-11-3	10.5	< 10.5	
Dimethylaminoazobenzene	60-11-7	10.5	< 10.5	
Dinoseb	88-85-7	10.5	< 10.5	
Diphenylamine	122-39-4	10.5	< 10.5	
Disulfoton	298-04-4	10.5	< 10.5	
Ethyl methanesulfonate	62-50-0	10.5	< 10.5	
Famphur	52-85-7	10.5	< 10.5	
Fluoranthene	206-44-0	10.5	< 10.5	
Fluorene	86-73-7	10.5	< 10.5	
Hexachlorobenzene	118-74-1	10.5	< 10.5	
Hexachlorobutadiene	87-68-3	10.5	< 10.5	
Hexachlorocyclopentadiene	77-47-4	10.5	< 10.5	
Hexachloroethane	67-72-1	10.5	< 10.5	
Hexachlorophene	70-30-4	10.5	< 10.5	
Hexachloropropene	1888-71-7	10.5	< 10.5	
Indene	95-13-6	10.5	< 10.5	
Indeno(1,2,3-cd)pyrene	193-39-5	10.5	< 10.5	
Isodrin	465-73-6	10.5	< 10.5	
Isophorone	78-59-1	10.5	< 10.5	
Isosafrole	120-58-1	10.5	< 10.5	
Kepone	143-50-0	10.5	< 10.5	

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Lab Sample ID: 1303706-014B
Client Sample ID: East of Boom / 4920395

Analyzed: 3/29/2013 1825h **Extracted:** 3/28/2013 807h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8270D

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Methapyrilene	91-80-5	10.5	< 10.5	
Methyl methanesulfonate	66-27-3	10.5	< 10.5	
n-Decane	124-18-5	10.5	< 10.5	
N-Nitrosodi-n-butylamine	924-16-3	10.5	< 10.5	
N-Nitrosodiethylamine	55-18-5	10.5	< 10.5	
N-Nitrosodimethylamine	62-75-9	10.5	< 10.5	
N-Nitrosodiphenylamine	86-30-6	10.5	< 10.5	
N-Nitrosodi-n-propylamine	621-64-7	10.5	< 10.5	
N-Nitrosomethylethylamine	10595-95-6	10.5	< 10.5	
N-Nitrosomorpholine	59-89-2	10.5	< 10.5	
N-Nitrosopiperidine	100-75-4	10.5	< 10.5	
N-Nitrosopyrrolidine	930-55-2	10.5	< 10.5	
n-Octadecane	593-45-3	10.5	< 10.5	
Naphthalene	91-20-3	10.5	< 10.5	
Nitrobenzene	98-95-3	10.5	< 10.5	
Nitroquinoline-1-oxide	56-57-5	10.5	< 10.5	
O,O,O-Triethyl phosphorothioate	126-68-1	10.5	< 10.5	
o-Toluidine	95-53-4	10.5	< 10.5	
Parathion	56-38-2	10.5	< 10.5	
Methyl parathion	298-00-0	10.5	< 10.5	
Pentachlorobenzene	608-93-5	10.5	< 10.5	
Pentachloronitrobenzene	82-68-8	10.5	< 10.5	
Pentachlorophenol	87-86-5	10.5	< 10.5	
Phenacetin	62-44-2	10.5	< 10.5	
Phenanthrene	85-01-8	10.5	< 10.5	
Phenol	108-95-2	10.5	< 10.5	
Phorate	298-02-2	10.5	< 10.5	
Pronamide	23950-58-5	10.5	< 10.5	
Pyrene	129-00-0	10.5	< 10.5	
Pyridine	110-86-1	10.5	< 10.5	
Quinoline	91-22-5	10.5	< 10.5	
Safrole	94-59-7	10.5	< 10.5	
Tetraethyl dithiopyrophosphate	3689-24-5	10.5	< 10.5	
Thionazin	297-97-2	10.5	< 10.5	
TIC: 1(2H)-Naphthalenone, 3,4-di…	000529-34-0		6.43	JN
TIC: 1(3H)-Isobenzofuranone, 3,3-dime…	001689-09-4		13.9	JN
TIC: 2-Amino-5,6-dimethylbenzimi…	029096-75-1		6.83	JN

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Lab Sample ID: 1303706-014B
Client Sample ID: East of Boom / 4920395

Analyzed: 3/29/2013 1825h **Extracted:** 3/28/2013 807h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8270D

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
TIC: 2-Ethyl-1-H-indene	017059-50-6		15.3	JN
TIC: 5,8-Dimethyl-1,2,3,4-tetrah…	032820-12-5		14.2	JN
TIC: Benzene, 1,3-diisocyanato-2…	000091-08-7		7.07	JN
TIC: Benzene, 1-methoxy-4-(1-met…	018272-83-8		9.48	JN
TIC: Benzene, hexamethyl-	000087-85-4		8.89	JN
TIC: Carbostyril, 8-hydroxy-	015450-76-7		11.9	JN
TIC: Isoquinoline, 1,2,3,4-tetrahydro-	000091-21-4		8.46	JN

Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 2,4,6-Tribromophenol	118-79-6	65.6	84.21	77.9	14-159	
Surr: 2-Fluorobiphenyl	321-60-8	19.1	42.11	45.3	10-124	
Surr: 2-Fluorophenol	367-12-4	27.2	84.21	32.3	10-106	
Surr: Nitrobenzene-d5	4165-60-0	17.2	42.11	40.9	10-180	
Surr: Phenol-d6	13127-88-3	19.8	84.21	23.5	10-122	
Surr: Terphenyl-d14	1718-51-0	43.7	42.11	104	10-199	

J - This flag indicates an estimated value.
N - This flag indicates presumptive evidence of a compound.
This sample was analyzed for TICs.

All analyses applicable to the CWA, SDWA, and RCRA are performed in accordance to NELAC protocols. Pertinent sampling information is located on the attached COC. This report is provided for the exclusive use of the addressee. Privileges of subsequent use of the name of this company or any member of its staff, or reproduction of this report in connection with the advertisement, promotion or sale of any product or process, or in connection with the re-publication of this report for any purpose other than for the addressee will be granted only on contact. This company accepts no responsibility except for the due performance of inspection and/or analysis in good faith and according to the rules of the trade and of science.

ORGANIC ANALYTICAL REPORT

Client: Utah Division of Water Quality **Contact:** Chris Bittner
Project: MP 44.9
Lab Sample ID: 1303706-015B
Client Sample ID: Between Weirs / 4920394
Collection Date: 3/27/2013 1400h
Received Date: 3/27/2013 1554h

Analytical Results SVOA List by GC/MS Method 8270D/3510C

Analyzed: 3/29/2013 2107h **Extracted:** 3/28/2013 1200h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8270D

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
1,1´-Biphenyl	92-52-4	10.0	< 10.0	
1,2,4,5-Tetrachlorobenzene	95-94-3	10.0	< 10.0	
1,2,4-Trichlorobenzene	120-82-1	10.0	< 10.0	
1,2-Dichlorobenzene	95-50-1	10.0	< 10.0	
1,3,5-Trinitrobenzene	99-35-4	10.0	< 10.0	
1,3-Dichlorobenzene	541-73-1	10.0	< 10.0	
1,3-Dinitrobenzene	99-65-0	10.0	< 10.0	
1,4-Dichlorobenzene	106-46-7	10.0	< 10.0	
1,4-Dinitrobenzene	100-25-4	10.0	< 10.0	
1,4-Naphthoquinone	130-15-4	10.0	< 10.0	
1,4-Phenylenediamine	106-50-3	10.0	< 10.0	
1-Chloronaphthalene	90-13-1	10.0	< 10.0	
1-Methylnaphthalene	90-12-0	10.0	< 10.0	
1-Naphthylamine	134-32-7	10.0	< 10.0	
2,3,4,6-Tetrachlorophenol	58-90-2	10.0	< 10.0	
2,4,5-Trichlorophenol	95-95-4	10.0	< 10.0	
2,4,6-Trichlorophenol	88-06-2	10.0	< 10.0	
2,4-Dichlorophenol	120-83-2	10.0	< 10.0	
2,4-Dimethylphenol	105-67-9	10.0	< 10.0	
2,4-Dinitrophenol	51-28-5	10.0	< 10.0	
2,4-Dinitrotoluene	121-14-2	10.0	< 10.0	
2,6-Dichlorophenol	87-65-0	10.0	< 10.0	
2,6-Dinitrotoluene	606-20-2	10.0	< 10.0	
2-Acetylaminofluorene	53-96-3	10.0	< 10.0	
2-Chloronaphthalene	91-58-7	10.0	< 10.0	
2-Chlorophenol	95-57-8	10.0	< 10.0	
2-Methylnaphthalene	91-57-6	10.0	< 10.0	
2-Methylphenol	95-48-7	10.0	< 10.0	
2-Naphthylamine	91-59-8	10.0	< 10.0	
2-Nitroaniline	88-74-4	10.0	< 10.0	

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

Lab Sample ID: 1303706-015B
Client Sample ID: Between Weirs / 4920394

Analyzed: 3/29/2013 2107h **Extracted:** 3/28/2013 1200h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8270D

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
2-Nitrophenol	88-75-5	10.0	< 10.0	
2-Picoline	109-06-8	10.0	< 10.0	
3&4-Methylphenol		10.0	< 10.0	
3,3´-Dichlorobenzidine	91-94-1	10.0	< 10.0	
3,3´-Dimethylbenzidine	119-93-7	10.0	< 10.0	
3-Methylcholanthrene	56-49-5	10.0	< 10.0	
3-Nitroaniline	99-09-2	10.0	< 10.0	
4,6-Dinitro-2-methylphenol	534-52-1	10.0	< 10.0	
4-Aminobiphenyl	92-67-1	10.0	< 10.0	
4-Bromophenyl phenyl ether	101-55-3	10.0	< 10.0	
4-Chloro-3-methylphenol	59-50-7	10.0	< 10.0	
4-Chloroaniline	106-47-8	10.0	< 10.0	
4-Chlorophenyl phenyl ether	7005-72-3	10.0	< 10.0	
4-Nitroaniline	100-01-6	10.0	< 10.0	
4-Nitrophenol	100-02-7	10.0	< 10.0	
5-Nitro-o-toluidine	99-55-8	10.0	< 10.0	
7,12-Dimethylbenz(a)anthracene	57-97-6	10.0	< 10.0	
a,a-Dimethylphenethylamine	122-09-8	10.0	< 10.0	
Acenaphthene	83-32-9	10.0	< 10.0	
Acenaphthylene	208-96-8	10.0	< 10.0	
Acetophenone	98-86-2	10.0	< 10.0	
alpha-Terpineol	98-55-5	10.0	< 10.0	
Aniline	62-53-3	10.0	< 10.0	
Anthracene	120-12-7	10.0	< 10.0	
Aramite	140-57-8	10.0	< 10.0	
Atrazine	1912-24-9	10.0	< 10.0	
Azobenzene	103-33-3	10.0	< 10.0	
Benz(a)anthracene	56-55-3	10.0	< 10.0	
Benzaldehyde	100-52-7	10.0	< 10.0	
Benzidine	92-87-5	10.0	< 10.0	
Benzo(a)pyrene	50-32-8	10.0	< 10.0	
Benzo(b)fluoranthene	205-99-2	10.0	< 10.0	
Benzo(g,h,i)perylene	191-24-2	10.0	< 10.0	
Benzo(k)fluoranthene	207-08-9	10.0	< 10.0	
Benzoic acid	65-85-0	20.0	< 20.0	
Benzyl alcohol	100-51-6	10.0	< 10.0	
Bis(2-chloroethoxy)methane	111-91-1	10.0	< 10.0	

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

Lab Sample ID: 1303706-015B
Client Sample ID: Between Weirs / 4920394

Analyzed: 3/29/2013 2107h **Extracted:** 3/28/2013 1200h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8270D

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Bis(2-chloroethyl) ether	111-44-4	10.0	< 10.0	
Bis(2-chloroisopropyl) ether	108-60-1	10.0	< 10.0	
Bis(2-ethylhexyl) phthalate	117-81-7	10.0	< 10.0	
bis(2-ethylhexyl)adipate	103-23-1	10.0	< 10.0	
Butyl benzyl phthalate	85-68-7	10.0	< 10.0	
Caprolactam	105-60-2	10.0	< 10.0	
Carbazole	86-74-8	10.0	< 10.0	
Chlorobenzilate	510-15-6	10.0	< 10.0	
Chrysene	218-01-9	10.0	< 10.0	
Di-n-butyl phthalate	84-74-2	10.0	< 10.0	
Di-n-octyl phthalate	117-84-0	10.0	< 10.0	
Diallate (cis or trans)	2303-16-4	10.0	< 10.0	
Dibenz(a,h)anthracene	53-70-3	10.0	< 10.0	
Dibenzofuran	132-64-9	10.0	< 10.0	
Diethyl phthalate	84-66-2	10.0	< 10.0	
Dimethoate	60-51-5	10.0	< 10.0	
Dimethyl phthalate	131-11-3	10.0	< 10.0	
Dimethylaminoazobenzene	60-11-7	10.0	< 10.0	
Dinoseb	88-85-7	10.0	< 10.0	
Diphenylamine	122-39-4	10.0	< 10.0	
Disulfoton	298-04-4	10.0	< 10.0	
Ethyl methanesulfonate	62-50-0	10.0	< 10.0	
Famphur	52-85-7	10.0	< 10.0	
Fluoranthene	206-44-0	10.0	< 10.0	
Fluorene	86-73-7	10.0	< 10.0	
Hexachlorobenzene	118-74-1	10.0	< 10.0	
Hexachlorobutadiene	87-68-3	10.0	< 10.0	
Hexachlorocyclopentadiene	77-47-4	10.0	< 10.0	
Hexachloroethane	67-72-1	10.0	< 10.0	
Hexachlorophene	70-30-4	10.0	< 10.0	
Hexachloropropene	1888-71-7	10.0	< 10.0	
Indene	95-13-6	10.0	< 10.0	
Indeno(1,2,3-cd)pyrene	193-39-5	10.0	< 10.0	
Isodrin	465-73-6	10.0	< 10.0	
Isophorone	78-59-1	10.0	< 10.0	
Isosafrole	120-58-1	10.0	< 10.0	
Kepone	143-50-0	10.0	< 10.0	

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

Lab Sample ID: 1303706-015B
Client Sample ID: Between Weirs / 4920394

Analyzed: 3/29/2013 2107h **Extracted:** 3/28/2013 1200h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8270D

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Methapyrilene	91-80-5	10.0	< 10.0	
Methyl methanesulfonate	66-27-3	10.0	< 10.0	
n-Decane	124-18-5	10.0	< 10.0	
N-Nitrosodi-n-butylamine	924-16-3	10.0	< 10.0	
N-Nitrosodiethylamine	55-18-5	10.0	< 10.0	
N-Nitrosodimethylamine	62-75-9	10.0	< 10.0	
N-Nitrosodiphenylamine	86-30-6	10.0	< 10.0	
N-Nitrosodi-n-propylamine	621-64-7	10.0	< 10.0	
N-Nitrosomethylethylamine	10595-95-6	10.0	< 10.0	
N-Nitrosomorpholine	59-89-2	10.0	< 10.0	
N-Nitrosopiperidine	100-75-4	10.0	< 10.0	
N-Nitrosopyrrolidine	930-55-2	10.0	< 10.0	
n-Octadecane	593-45-3	10.0	**10.4**	
Naphthalene	91-20-3	10.0	< 10.0	
Nitrobenzene	98-95-3	10.0	< 10.0	
Nitroquinoline-1-oxide	56-57-5	10.0	< 10.0	
O,O,O-Triethyl phosphorothioate	126-68-1	10.0	< 10.0	
o-Toluidine	95-53-4	10.0	< 10.0	
Parathion	56-38-2	10.0	< 10.0	
Methyl parathion	298-00-0	10.0	< 10.0	
Pentachlorobenzene	608-93-5	10.0	< 10.0	
Pentachloronitrobenzene	82-68-8	10.0	< 10.0	
Pentachlorophenol	87-86-5	10.0	< 10.0	
Phenacetin	62-44-2	10.0	< 10.0	
Phenanthrene	85-01-8	10.0	< 10.0	
Phenol	108-95-2	10.0	< 10.0	
Phorate	298-02-2	10.0	< 10.0	
Pronamide	23950-58-5	10.0	< 10.0	
Pyrene	129-00-0	10.0	< 10.0	
Pyridine	110-86-1	10.0	< 10.0	
Quinoline	91-22-5	10.0	< 10.0	
Safrole	94-59-7	10.0	< 10.0	
Tetraethyl dithiopyrophosphate	3689-24-5	10.0	< 10.0	
Thionazin	297-97-2	10.0	< 10.0	
TIC: 1(2H)-Naphthalenone, 3,4-di…	006939-35-1		33.3	JN
TIC: 1,2,3-Trimethylindene	004773-83-5		26.5	JN
TIC: 1,3-2H-Isobenzofuranone, 3,…	057732-90-8		25.4	JN

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

Lab Sample ID: 1303706-015B
Client Sample ID: Between Weirs / 4920394

Analyzed: 3/29/2013 2107h **Extracted:** 3/28/2013 1200h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8270D

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
TIC: 2-Ethyl-1-H-indene	017059-50-6		25.8	JN
TIC: 5,8-Dimethyl-1,2,3,4-tetrah…	032820-12-5		37.2	JN
TIC: Benzene, 1,2-diethyl-3,4-di…	054410-75-2		58.5	JN
TIC: Benzene, 1,4-bis(1-methylethenyl)-	001605-18-1		23.5	JN
TIC: Benzene, hexamethyl-	000087-85-4		43.6	JN
TIC: Heptadecane	000629-78-7		37.5	JN
TIC: Nonadecane	000629-92-5		21.6	JN

Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 2,4,6-Tribromophenol	118-79-6	37.3	80.00	46.6	14-159	
Surr: 2-Fluorobiphenyl	321-60-8	8.25	40.00	20.6	10-124	
Surr: 2-Fluorophenol	367-12-4	19.7	80.00	24.6	10-106	
Surr: Nitrobenzene-d5	4165-60-0	11.5	40.00	28.8	10-180	
Surr: Phenol-d6	13127-88-3	13.6	80.00	17.0	10-122	
Surr: Terphenyl-d14	1718-51-0	35.3	40.00	88.2	10-199	

J - This flag indicates an estimated value.
N - This flag indicates presumptive evidence of a compound.
This sample was analyzed for TICs.

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ORGANIC ANALYTICAL REPORT

Client: Utah Division of Water Quality **Contact:** Chris Bittner
Project: MP 44.9
Lab Sample ID: 1303706-016B
Client Sample ID: Between Weirs Dup / 4920394
Collection Date: 3/27/2013 1410h
Received Date: 3/27/2013 1554h

Analytical Results SVOA List by GC/MS Method 8270D/3510C

Analyzed: 3/29/2013 2133h **Extracted:** 3/28/2013 1200h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8270D

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QA Officer

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
1,1´-Biphenyl	92-52-4	10.0	< 10.0	
1,2,4,5-Tetrachlorobenzene	95-94-3	10.0	< 10.0	
1,2,4-Trichlorobenzene	120-82-1	10.0	< 10.0	
1,2-Dichlorobenzene	95-50-1	10.0	< 10.0	
1,3,5-Trinitrobenzene	99-35-4	10.0	< 10.0	
1,3-Dichlorobenzene	541-73-1	10.0	< 10.0	
1,3-Dinitrobenzene	99-65-0	10.0	< 10.0	
1,4-Dichlorobenzene	106-46-7	10.0	< 10.0	
1,4-Dinitrobenzene	100-25-4	10.0	< 10.0	
1,4-Naphthoquinone	130-15-4	10.0	< 10.0	
1,4-Phenylenediamine	106-50-3	10.0	< 10.0	
1-Chloronaphthalene	90-13-1	10.0	< 10.0	
1-Methylnaphthalene	90-12-0	10.0	< 10.0	
1-Naphthylamine	134-32-7	10.0	< 10.0	
2,3,4,6-Tetrachlorophenol	58-90-2	10.0	< 10.0	
2,4,5-Trichlorophenol	95-95-4	10.0	< 10.0	
2,4,6-Trichlorophenol	88-06-2	10.0	< 10.0	
2,4-Dichlorophenol	120-83-2	10.0	< 10.0	
2,4-Dimethylphenol	105-67-9	10.0	< 10.0	
2,4-Dinitrophenol	51-28-5	10.0	< 10.0	
2,4-Dinitrotoluene	121-14-2	10.0	< 10.0	
2,6-Dichlorophenol	87-65-0	10.0	< 10.0	
2,6-Dinitrotoluene	606-20-2	10.0	< 10.0	
2-Acetylaminofluorene	53-96-3	10.0	< 10.0	
2-Chloronaphthalene	91-58-7	10.0	< 10.0	
2-Chlorophenol	95-57-8	10.0	< 10.0	
2-Methylnaphthalene	91-57-6	10.0	< 10.0	
2-Methylphenol	95-48-7	10.0	< 10.0	
2-Naphthylamine	91-59-8	10.0	< 10.0	
2-Nitroaniline	88-74-4	10.0	< 10.0	

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Laboratory Director

Jose Rocha
QA Officer

Lab Sample ID: 1303706-016B
Client Sample ID: Between Weirs Dup / 4920394

Analyzed: 3/29/2013 2133h **Extracted:** 3/28/2013 1200h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8270D

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
2-Nitrophenol	88-75-5	10.0	< 10.0	
2-Picoline	109-06-8	10.0	< 10.0	
3&4-Methylphenol		10.0	< 10.0	
3,3´-Dichlorobenzidine	91-94-1	10.0	< 10.0	
3,3´-Dimethylbenzidine	119-93-7	10.0	< 10.0	
3-Methylcholanthrene	56-49-5	10.0	< 10.0	
3-Nitroaniline	99-09-2	10.0	< 10.0	
4,6-Dinitro-2-methylphenol	534-52-1	10.0	< 10.0	
4-Aminobiphenyl	92-67-1	10.0	< 10.0	
4-Bromophenyl phenyl ether	101-55-3	10.0	< 10.0	
4-Chloro-3-methylphenol	59-50-7	10.0	< 10.0	
4-Chloroaniline	106-47-8	10.0	< 10.0	
4-Chlorophenyl phenyl ether	7005-72-3	10.0	< 10.0	
4-Nitroaniline	100-01-6	10.0	< 10.0	
4-Nitrophenol	100-02-7	10.0	< 10.0	
5-Nitro-o-toluidine	99-55-8	10.0	< 10.0	
7,12-Dimethylbenz(a)anthracene	57-97-6	10.0	< 10.0	
a,a-Dimethylphenethylamine	122-09-8	10.0	< 10.0	
Acenaphthene	83-32-9	10.0	< 10.0	
Acenaphthylene	208-96-8	10.0	< 10.0	
Acetophenone	98-86-2	10.0	< 10.0	
alpha-Terpineol	98-55-5	10.0	< 10.0	
Aniline	62-53-3	10.0	< 10.0	
Anthracene	120-12-7	10.0	< 10.0	
Aramite	140-57-8	10.0	< 10.0	
Atrazine	1912-24-9	10.0	< 10.0	
Azobenzene	103-33-3	10.0	< 10.0	
Benz(a)anthracene	56-55-3	10.0	< 10.0	
Benzaldehyde	100-52-7	10.0	< 10.0	
Benzidine	92-87-5	10.0	< 10.0	
Benzo(a)pyrene	50-32-8	10.0	< 10.0	
Benzo(b)fluoranthene	205-99-2	10.0	< 10.0	
Benzo(g,h,i)perylene	191-24-2	10.0	< 10.0	
Benzo(k)fluoranthene	207-08-9	10.0	< 10.0	
Benzoic acid	65-85-0	20.0	< 20.0	
Benzyl alcohol	100-51-6	10.0	< 10.0	
Bis(2-chloroethoxy)methane	111-91-1	10.0	< 10.0	

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

Lab Sample ID: 1303706-016B
Client Sample ID: Between Weirs Dup / 4920394

Analyzed: 3/29/2013 2133h **Extracted:** 3/28/2013 1200h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8270D

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Bis(2-chloroethyl) ether	111-44-4	10.0	< 10.0	
Bis(2-chloroisopropyl) ether	108-60-1	10.0	< 10.0	
Bis(2-ethylhexyl) phthalate	117-81-7	10.0	< 10.0	
bis(2-ethylhexyl)adipate	103-23-1	10.0	< 10.0	
Butyl benzyl phthalate	85-68-7	10.0	< 10.0	
Caprolactam	105-60-2	10.0	< 10.0	
Carbazole	86-74-8	10.0	< 10.0	
Chlorobenzilate	510-15-6	10.0	< 10.0	
Chrysene	218-01-9	10.0	< 10.0	
Di-n-butyl phthalate	84-74-2	10.0	< 10.0	
Di-n-octyl phthalate	117-84-0	10.0	< 10.0	
Diallate (cis or trans)	2303-16-4	10.0	< 10.0	
Dibenz(a,h)anthracene	53-70-3	10.0	< 10.0	
Dibenzofuran	132-64-9	10.0	< 10.0	
Diethyl phthalate	84-66-2	10.0	< 10.0	
Dimethoate	60-51-5	10.0	< 10.0	
Dimethyl phthalate	131-11-3	10.0	< 10.0	
Dimethylaminoazobenzene	60-11-7	10.0	< 10.0	
Dinoseb	88-85-7	10.0	< 10.0	
Diphenylamine	122-39-4	10.0	< 10.0	
Disulfoton	298-04-4	10.0	< 10.0	
Ethyl methanesulfonate	62-50-0	10.0	< 10.0	
Famphur	52-85-7	10.0	< 10.0	
Fluoranthene	206-44-0	10.0	< 10.0	
Fluorene	86-73-7	10.0	< 10.0	
Hexachlorobenzene	118-74-1	10.0	< 10.0	
Hexachlorobutadiene	87-68-3	10.0	< 10.0	
Hexachlorocyclopentadiene	77-47-4	10.0	< 10.0	
Hexachloroethane	67-72-1	10.0	< 10.0	
Hexachlorophene	70-30-4	10.0	< 10.0	
Hexachloropropene	1888-71-7	10.0	< 10.0	
Indene	95-13-6	10.0	< 10.0	
Indeno(1,2,3-cd)pyrene	193-39-5	10.0	< 10.0	
Isodrin	465-73-6	10.0	< 10.0	
Isophorone	78-59-1	10.0	< 10.0	
Isosafrole	120-58-1	10.0	< 10.0	
Kepone	143-50-0	10.0	< 10.0	

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

Lab Sample ID: 1303706-016B
Client Sample ID: Between Weirs Dup / 4920394

Analyzed: 3/29/2013 2133h **Extracted:** 3/28/2013 1200h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8270D

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Methapyrilene	91-80-5	10.0	< 10.0	
Methyl methanesulfonate	66-27-3	10.0	< 10.0	
n-Decane	124-18-5	10.0	< 10.0	
N-Nitrosodi-n-butylamine	924-16-3	10.0	< 10.0	
N-Nitrosodiethylamine	55-18-5	10.0	< 10.0	
N-Nitrosodimethylamine	62-75-9	10.0	< 10.0	
N-Nitrosodiphenylamine	86-30-6	10.0	< 10.0	
N-Nitrosodi-n-propylamine	621-64-7	10.0	< 10.0	
N-Nitrosomethylethylamine	10595-95-6	10.0	< 10.0	
N-Nitrosomorpholine	59-89-2	10.0	< 10.0	
N-Nitrosopiperidine	100-75-4	10.0	< 10.0	
N-Nitrosopyrrolidine	930-55-2	10.0	< 10.0	
n-Octadecane	593-45-3	10.0	< 10.0	
Naphthalene	91-20-3	10.0	< 10.0	
Nitrobenzene	98-95-3	10.0	< 10.0	
Nitroquinoline-1-oxide	56-57-5	10.0	< 10.0	
O,O,O-Triethyl phosphorothioate	126-68-1	10.0	< 10.0	
o-Toluidine	95-53-4	10.0	< 10.0	
Parathion	56-38-2	10.0	< 10.0	
Methyl parathion	298-00-0	10.0	< 10.0	
Pentachlorobenzene	608-93-5	10.0	< 10.0	
Pentachloronitrobenzene	82-68-8	10.0	< 10.0	
Pentachlorophenol	87-86-5	10.0	< 10.0	
Phenacetin	62-44-2	10.0	< 10.0	
Phenanthrene	85-01-8	10.0	< 10.0	
Phenol	108-95-2	10.0	< 10.0	
Phorate	298-02-2	10.0	< 10.0	
Pronamide	23950-58-5	10.0	< 10.0	
Pyrene	129-00-0	10.0	< 10.0	
Pyridine	110-86-1	10.0	< 10.0	
Quinoline	91-22-5	10.0	< 10.0	
Safrole	94-59-7	10.0	< 10.0	
Tetraethyl dithiopyrophosphate	3689-24-5	10.0	< 10.0	
Thionazin	297-97-2	10.0	< 10.0	
TIC: 1(2H)-Naphthalenone, 3,4-di…	006939-35-1		34.6	JN
TIC: 1,3,5-Cycloheptatriene, 3,4…	1000156-99-7		38.6	JN
TIC: 1,3-2H-Isobenzofuranone, 3,…	057732-90-8		26.6	JN

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Lab Sample ID: 1303706-016B
Client Sample ID: Between Weirs Dup / 4920394

Analyzed: 3/29/2013 2133h **Extracted:** 3/28/2013 1200h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8270D

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
TIC: 1H-Indene, 1-ethenyl-2,3-di…	051783-46-1		28.2	JN
TIC: 5,8-Dimethyl-1,2,3,4-tetrah…	032820-12-5		27.3	JN
TIC: Benzene, (4,5,5-trimethyl-1…	033930-85-7		31.6	JN
TIC: Benzene, 1,2-diethyl-3,4-di…	054410-75-2		66.2	JN
TIC: Benzene, 1,3,5-triethyl-	000102-25-0		44.6	JN
TIC: Benzene, 1,4-bis(1-methylethenyl)-	001605-18-1		28.2	JN
TIC: Naphthalene, 1,2,3,4-tetrah…	000483-77-2		29.4	JN

Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 2,4,6-Tribromophenol	118-79-6	38.8	80.00	48.5	14-159	
Surr: 2-Fluorobiphenyl	321-60-8	7.33	40.00	18.3	10-124	
Surr: 2-Fluorophenol	367-12-4	19.5	80.00	24.3	10-106	
Surr: Nitrobenzene-d5	4165-60-0	11.0	40.00	27.5	10-180	
Surr: Phenol-d6	13127-88-3	14.6	80.00	18.3	10-122	
Surr: Terphenyl-d14	1718-51-0	33.2	40.00	83.0	10-199	

J - This flag indicates an estimated value.
N - This flag indicates presumptive evidence of a compound.
This sample was analyzed for TICs.

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Jose Rocha
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ORGANIC ANALYTICAL REPORT

Client: Utah Division of Water Quality **Contact:** Chris Bittner
Project: MP 44.9
Lab Sample ID: 1303706-001A
Client Sample ID: East of I-15 / 4920392
Collection Date: 3/27/2013 900h
Received Date: 3/27/2013 1554h

Analytical Results VOAs Full List by GC/MS Method 8260C/5030C

Analyzed: 3/27/2013 1923h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8260C

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Jose Rocha
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Compound	CAS Number	Reporting Limit	Analytical Result	Qual
1,1,1,2-Tetrachloroethane	630-20-6	2.00	< 2.00	
1,1,1-Trichloroethane	71-55-6	2.00	< 2.00	
1,1,2,2-Tetrachloroethane	79-34-5	2.00	< 2.00	
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	2.00	< 2.00	
1,1,2-Trichloroethane	79-00-5	2.00	< 2.00	
1,1-Dichloropropene	563-58-6	2.00	< 2.00	
1,1-Dichloroethane	75-34-3	2.00	< 2.00	
1,1-Dichloroethene	75-35-4	2.00	< 2.00	
1,2,3-Trichlorobenzene	87-61-6	2.00	< 2.00	
1,2,3-Trichloropropane	96-18-4	2.00	< 2.00	
1,2,3-Trimethylbenzene	526-73-8	2.00	< 2.00	
1,2,4-Trichlorobenzene	120-82-1	2.00	< 2.00	
1,2,4-Trimethylbenzene	95-63-6	2.00	< 2.00	
1,2-Dibromo-3-chloropropane	96-12-8	5.00	< 5.00	
1,2-Dibromoethane	106-93-4	2.00	< 2.00	
1,2-Dichlorobenzene	95-50-1	2.00	< 2.00	
1,2-Dichloroethane	107-06-2	2.00	< 2.00	
1,2-Dichloropropane	78-87-5	2.00	< 2.00	
1,3,5-Trimethylbenzene	108-67-8	2.00	< 2.00	
1,3-Dichlorobenzene	541-73-1	2.00	< 2.00	
1,3-Dichloropropane	142-28-9	2.00	< 2.00	
1,4-Dichlorobenzene	106-46-7	2.00	< 2.00	
1,4-Dioxane	123-91-1	50.0	< 50.0	
2,2-Dichloropropane	594-20-7	2.00	< 2.00	
2-Butanone	78-93-3	10.0	< 10.0	
2-Chloroethyl vinyl ether	110-75-8	5.00	< 5.00	
2-Chlorotoluene	95-49-8	2.00	< 2.00	
2-Hexanone	591-78-6	5.00	< 5.00	
2-Nitropropane	79-46-9	5.00	< 5.00	
4-Chlorotoluene	106-43-4	2.00	< 2.00	

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Laboratory Director

Jose Rocha
QA Officer

Lab Sample ID: 1303706-001A
Client Sample ID: East of I-15 / 4920392

Analyzed: 3/27/2013 1923h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8260C

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
4-Isopropyltoluene	99-87-6	2.00	< 2.00	
4-Methyl-2-pentanone	108-10-1	5.00	< 5.00	
Acetone	67-64-1	10.0	< 10.0	
Acetonitrile	75-05-8	5.00	< 5.00	
Acrolein	107-02-8	5.00	< 5.00	
Acrylonitrile	107-13-1	10.0	< 10.0	
Allyl chloride	107-05-1	5.00	< 5.00	
Benzene	71-43-2	2.00	< 2.00	
Benzyl chloride	100-44-7	5.00	< 5.00	
Bis(2-chloroisopropyl) ether	108-60-1	5.00	< 5.00	
Bromobenzene	108-86-1	2.00	< 2.00	
Bromochloromethane	74-97-5	2.00	< 2.00	
Bromodichloromethane	75-27-4	2.00	< 2.00	
Bromoform	75-25-2	2.00	< 2.00	
Bromomethane	74-83-9	5.00	< 5.00	
Butyl acetate	123-86-4	10.0	< 10.0	
Carbon disulfide	75-15-0	2.00	< 2.00	
Carbon tetrachloride	56-23-5	2.00	< 2.00	
Chlorobenzene	108-90-7	2.00	< 2.00	
Chloroethane	75-00-3	2.00	< 2.00	
Chloroform	67-66-3	2.00	< 2.00	
Chloromethane	74-87-3	3.00	< 3.00	
Chloroprene	126-99-8	2.00	< 2.00	
cis-1,2-Dichloroethene	156-59-2	2.00	< 2.00	
cis-1,3-Dichloropropene	10061-01-5	2.00	< 2.00	
Cyclohexane	110-82-7	2.00	< 2.00	
Cyclohexanone	108-94-1	50.0	< 50.0	
Dibromochloromethane	124-48-1	2.00	< 2.00	
Dibromomethane	74-95-3	2.00	< 2.00	
Dichlorodifluoromethane	75-71-8	2.00	< 2.00	
Ethyl acetate	141-78-6	10.0	< 10.0	
Ethyl ether	60-29-7	10.0	< 10.0	
Ethyl methacrylate	97-63-2	2.00	< 2.00	
Ethylbenzene	100-41-4	2.00	< 2.00	
Hexachlorobutadiene	87-68-3	2.00	< 2.00	
Iodomethane	74-88-4	5.00	< 5.00	
Isobutyl alcohol	78-83-1	100	< 100	

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Lab Sample ID: 1303706-001A
Client Sample ID: East of I-15 / 4920392

Analyzed: 3/27/2013 1923h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8260C

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Isopropyl acetate	108-21-4	10.0	< 10.0	
Isopropyl alcohol	67-63-0	40.0	< 40.0	
Isopropylbenzene	98-82-8	2.00	< 2.00	
m,p-Xylene	179601-23-1	2.00	< 2.00	
Methacrylonitrile	126-98-7	5.00	< 5.00	
Methyl Acetate	79-20-9	5.00	< 5.00	
Methyl methacrylate	80-62-6	5.00	< 5.00	
Methyl tert-butyl ether	1634-04-4	2.00	< 2.00	
Methylcyclohexane	108-87-2	2.00	< 2.00	
Methylene chloride	75-09-2	2.00	< 2.00	
n-Amyl acetate	628-63-7	10.0	< 10.0	
n-Butyl alcohol	71-36-3	100	< 100	
n-Butylbenzene	104-51-8	2.00	< 2.00	
n-Hexane	110-54-3	2.00	< 2.00	
n-Octane	111-65-9	2.00	< 2.00	
n-Propylbenzene	103-65-1	2.00	< 2.00	
Naphthalene	91-20-3	2.00	< 2.00	
o-Xylene	95-47-6	2.00	< 2.00	
Pentachloroethane	76-01-7	5.00	< 5.00	
Propionitrile	107-12-0	25.0	< 25.0	
Propyl acetate	109-60-4	10.0	< 10.0	
sec-Butylbenzene	135-98-8	2.00	< 2.00	
Styrene	100-42-5	2.00	< 2.00	
tert-Butyl alcohol	76-65-0	20.0	< 20.0	
tert-Butylbenzene	98-06-6	2.00	< 2.00	
Tetrachloroethene	127-18-4	2.00	< 2.00	
Tetrahydrofuran	109-99-9	2.00	< 2.00	
Toluene	108-88-3	2.00	< 2.00	
trans-1,2-Dichloroethene	156-60-5	2.00	< 2.00	
trans-1,3-Dichloropropene	10061-02-6	2.00	< 2.00	
trans-1,4-Dichloro-2-butene	110-57-6	2.00	< 2.00	
Trichloroethene	79-01-6	2.00	< 2.00	
Trichlorofluoromethane	75-69-4	2.00	< 2.00	
Vinyl acetate	108-05-4	10.0	< 10.0	
Vinyl chloride	75-01-4	1.00	< 1.00	
Xylenes, Total	1330-20-7	2.00	< 2.00	

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Lab Sample ID: 1303706-001A
Client Sample ID: East of I-15 / 4920392

Analyzed: 3/27/2013 1923h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8260C

Compound	CAS Number	Reporting Limit	Analytical Result	Qual

Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	58.4	50.00	117	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	53.4	50.00	107	80-128	
Surr: Dibromofluoromethane	1868-53-7	53.8	50.00	108	80-124	
Surr: Toluene-d8	2037-26-5	50.1	50.00	100	77-129	

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ORGANIC ANALYTICAL REPORT

Client: Utah Division of Water Quality **Contact:** Chris Bittner
Project: MP 44.9
Lab Sample ID: 1303706-002A
Client Sample ID: South Marina / 4920495
Collection Date: 3/27/2013 930h
Received Date: 3/27/2013 1554h

Analytical Results VOAs Full List by GC/MS Method 8260C/5030C

Analyzed: 3/27/2013 1942h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8260C

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
1,1,1,2-Tetrachloroethane	630-20-6	2.00	< 2.00	
1,1,1-Trichloroethane	71-55-6	2.00	< 2.00	
1,1,2,2-Tetrachloroethane	79-34-5	2.00	< 2.00	
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	2.00	< 2.00	
1,1,2-Trichloroethane	79-00-5	2.00	< 2.00	
1,1-Dichloropropene	563-58-6	2.00	< 2.00	
1,1-Dichloroethane	75-34-3	2.00	< 2.00	
1,1-Dichloroethene	75-35-4	2.00	< 2.00	
1,2,3-Trichlorobenzene	87-61-6	2.00	< 2.00	
1,2,3-Trichloropropane	96-18-4	2.00	< 2.00	
1,2,3-Trimethylbenzene	526-73-8	2.00	< 2.00	
1,2,4-Trichlorobenzene	120-82-1	2.00	< 2.00	
1,2,4-Trimethylbenzene	95-63-6	2.00	< 2.00	
1,2-Dibromo-3-chloropropane	96-12-8	5.00	< 5.00	
1,2-Dibromoethane	106-93-4	2.00	< 2.00	
1,2-Dichlorobenzene	95-50-1	2.00	< 2.00	
1,2-Dichloroethane	107-06-2	2.00	< 2.00	
1,2-Dichloropropane	78-87-5	2.00	< 2.00	
1,3,5-Trimethylbenzene	108-67-8	2.00	< 2.00	
1,3-Dichlorobenzene	541-73-1	2.00	< 2.00	
1,3-Dichloropropane	142-28-9	2.00	< 2.00	
1,4-Dichlorobenzene	106-46-7	2.00	< 2.00	
1,4-Dioxane	123-91-1	50.0	< 50.0	
2,2-Dichloropropane	594-20-7	2.00	< 2.00	
2-Butanone	78-93-3	10.0	< 10.0	
2-Chloroethyl vinyl ether	110-75-8	5.00	< 5.00	
2-Chlorotoluene	95-49-8	2.00	< 2.00	
2-Hexanone	591-78-6	5.00	< 5.00	
2-Nitropropane	79-46-9	5.00	< 5.00	
4-Chlorotoluene	106-43-4	2.00	< 2.00	

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

Lab Sample ID: 1303706-002A
Client Sample ID: South Marina / 4920495

Analyzed: 3/27/2013 1942h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8260C

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
4-Isopropyltoluene	99-87-6	2.00	< 2.00	
4-Methyl-2-pentanone	108-10-1	5.00	< 5.00	
Acetone	67-64-1	10.0	< 10.0	
Acetonitrile	75-05-8	5.00	< 5.00	
Acrolein	107-02-8	5.00	< 5.00	
Acrylonitrile	107-13-1	10.0	< 10.0	
Allyl chloride	107-05-1	5.00	< 5.00	
Benzene	71-43-2	2.00	< 2.00	
Benzyl chloride	100-44-7	5.00	< 5.00	
Bis(2-chloroisopropyl) ether	108-60-1	5.00	< 5.00	
Bromobenzene	108-86-1	2.00	< 2.00	
Bromochloromethane	74-97-5	2.00	< 2.00	
Bromodichloromethane	75-27-4	2.00	< 2.00	
Bromoform	75-25-2	2.00	< 2.00	
Bromomethane	74-83-9	5.00	< 5.00	
Butyl acetate	123-86-4	10.0	< 10.0	
Carbon disulfide	75-15-0	2.00	< 2.00	
Carbon tetrachloride	56-23-5	2.00	< 2.00	
Chlorobenzene	108-90-7	2.00	< 2.00	
Chloroethane	75-00-3	2.00	< 2.00	
Chloroform	67-66-3	2.00	< 2.00	
Chloromethane	74-87-3	3.00	< 3.00	
Chloroprene	126-99-8	2.00	< 2.00	
cis-1,2-Dichloroethene	156-59-2	2.00	< 2.00	
cis-1,3-Dichloropropene	10061-01-5	2.00	< 2.00	
Cyclohexane	110-82-7	2.00	< 2.00	
Cyclohexanone	108-94-1	50.0	< 50.0	
Dibromochloromethane	124-48-1	2.00	< 2.00	
Dibromomethane	74-95-3	2.00	< 2.00	
Dichlorodifluoromethane	75-71-8	2.00	< 2.00	
Ethyl acetate	141-78-6	10.0	< 10.0	
Ethyl ether	60-29-7	10.0	< 10.0	
Ethyl methacrylate	97-63-2	2.00	< 2.00	
Ethylbenzene	100-41-4	2.00	< 2.00	
Hexachlorobutadiene	87-68-3	2.00	< 2.00	
Iodomethane	74-88-4	5.00	< 5.00	
Isobutyl alcohol	78-83-1	100	< 100	

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Laboratory Director

Jose Rocha
QA Officer

Lab Sample ID: 1303706-002A
Client Sample ID: South Marina / 4920495

Analyzed: 3/27/2013 1942h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8260C

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Isopropyl acetate	108-21-4	10.0	< 10.0	
Isopropyl alcohol	67-63-0	40.0	< 40.0	
Isopropylbenzene	98-82-8	2.00	< 2.00	
m,p-Xylene	179601-23-1	2.00	< 2.00	
Methacrylonitrile	126-98-7	5.00	< 5.00	
Methyl Acetate	79-20-9	5.00	< 5.00	
Methyl methacrylate	80-62-6	5.00	< 5.00	
Methyl tert-butyl ether	1634-04-4	2.00	< 2.00	
Methylcyclohexane	108-87-2	2.00	< 2.00	
Methylene chloride	75-09-2	2.00	< 2.00	
n-Amyl acetate	628-63-7	10.0	< 10.0	
n-Butyl alcohol	71-36-3	100	< 100	
n-Butylbenzene	104-51-8	2.00	< 2.00	
n-Hexane	110-54-3	2.00	< 2.00	
n-Octane	111-65-9	2.00	< 2.00	
n-Propylbenzene	103-65-1	2.00	< 2.00	
Naphthalene	91-20-3	2.00	< 2.00	
o-Xylene	95-47-6	2.00	< 2.00	
Pentachloroethane	76-01-7	5.00	< 5.00	
Propionitrile	107-12-0	25.0	< 25.0	
Propyl acetate	109-60-4	10.0	< 10.0	
sec-Butylbenzene	135-98-8	2.00	< 2.00	
Styrene	100-42-5	2.00	< 2.00	
tert-Butyl alcohol	76-65-0	20.0	< 20.0	
tert-Butylbenzene	98-06-6	2.00	< 2.00	
Tetrachloroethene	127-18-4	2.00	< 2.00	
Tetrahydrofuran	109-99-9	2.00	< 2.00	
Toluene	108-88-3	2.00	< 2.00	
trans-1,2-Dichloroethene	156-60-5	2.00	< 2.00	
trans-1,3-Dichloropropene	10061-02-6	2.00	< 2.00	
trans-1,4-Dichloro-2-butene	110-57-6	2.00	< 2.00	
Trichloroethene	79-01-6	2.00	< 2.00	
Trichlorofluoromethane	75-69-4	2.00	< 2.00	
Vinyl acetate	108-05-4	10.0	< 10.0	
Vinyl chloride	75-01-4	1.00	< 1.00	
Xylenes, Total	1330-20-7	2.00	< 2.00	

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Lab Sample ID: 1303706-002A
Client Sample ID: South Marina / 4920495

Analyzed: 3/27/2013 1942h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8260C

Compound	CAS Number	Reporting Limit	Analytical Result	Qual

Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	58.5	50.00	117	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	52.5	50.00	105	80-128	
Surr: Dibromofluoromethane	1868-53-7	53.6	50.00	107	80-124	
Surr: Toluene-d8	2037-26-5	49.7	50.00	99.5	77-129	

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Jose Rocha
QA Officer

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ORGANIC ANALYTICAL REPORT

Client: Utah Division of Water Quality **Contact:** Chris Bittner
Project: MP 44.9
Lab Sample ID: 1303706-003A
Client Sample ID: North Boom / 4920397
Collection Date: 3/27/2013 1030h
Received Date: 3/27/2013 1554h

Analytical Results VOAs Full List by GC/MS Method 8260C/5030C

Analyzed: 3/27/2013 2001h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8260C

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Compound	CAS Number	Reporting Limit	Analytical Result	Qual
1,1,1,2-Tetrachloroethane	630-20-6	2.00	< 2.00	
1,1,1-Trichloroethane	71-55-6	2.00	< 2.00	
1,1,2,2-Tetrachloroethane	79-34-5	2.00	< 2.00	
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	2.00	< 2.00	
1,1,2-Trichloroethane	79-00-5	2.00	< 2.00	
1,1-Dichloropropene	563-58-6	2.00	< 2.00	
1,1-Dichloroethane	75-34-3	2.00	< 2.00	
1,1-Dichloroethene	75-35-4	2.00	< 2.00	
1,2,3-Trichlorobenzene	87-61-6	2.00	< 2.00	
1,2,3-Trichloropropane	96-18-4	2.00	< 2.00	
1,2,3-Trimethylbenzene	526-73-8	2.00	< 2.00	
1,2,4-Trichlorobenzene	120-82-1	2.00	< 2.00	
1,2,4-Trimethylbenzene	95-63-6	2.00	< 2.00	
1,2-Dibromo-3-chloropropane	96-12-8	5.00	< 5.00	
1,2-Dibromoethane	106-93-4	2.00	< 2.00	
1,2-Dichlorobenzene	95-50-1	2.00	< 2.00	
1,2-Dichloroethane	107-06-2	2.00	< 2.00	
1,2-Dichloropropane	78-87-5	2.00	< 2.00	
1,3,5-Trimethylbenzene	108-67-8	2.00	< 2.00	
1,3-Dichlorobenzene	541-73-1	2.00	< 2.00	
1,3-Dichloropropane	142-28-9	2.00	< 2.00	
1,4-Dichlorobenzene	106-46-7	2.00	< 2.00	
1,4-Dioxane	123-91-1	50.0	< 50.0	
2,2-Dichloropropane	594-20-7	2.00	< 2.00	
2-Butanone	78-93-3	10.0	< 10.0	
2-Chloroethyl vinyl ether	110-75-8	5.00	< 5.00	
2-Chlorotoluene	95-49-8	2.00	< 2.00	
2-Hexanone	591-78-6	5.00	< 5.00	
2-Nitropropane	79-46-9	5.00	< 5.00	
4-Chlorotoluene	106-43-4	2.00	< 2.00	

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

Lab Sample ID: 1303706-003A
Client Sample ID: North Boom / 4920397

Analyzed: 3/27/2013 2001h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8260C

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
4-Isopropyltoluene	99-87-6	2.00	< 2.00	
4-Methyl-2-pentanone	108-10-1	5.00	< 5.00	
Acetone	67-64-1	10.0	< 10.0	
Acetonitrile	75-05-8	5.00	< 5.00	
Acrolein	107-02-8	5.00	< 5.00	
Acrylonitrile	107-13-1	10.0	< 10.0	
Allyl chloride	107-05-1	5.00	< 5.00	
Benzene	71-43-2	2.00	< 2.00	
Benzyl chloride	100-44-7	5.00	< 5.00	
Bis(2-chloroisopropyl) ether	108-60-1	5.00	< 5.00	
Bromobenzene	108-86-1	2.00	< 2.00	
Bromochloromethane	74-97-5	2.00	< 2.00	
Bromodichloromethane	75-27-4	2.00	< 2.00	
Bromoform	75-25-2	2.00	< 2.00	
Bromomethane	74-83-9	5.00	< 5.00	
Butyl acetate	123-86-4	10.0	< 10.0	
Carbon disulfide	75-15-0	2.00	< 2.00	
Carbon tetrachloride	56-23-5	2.00	< 2.00	
Chlorobenzene	108-90-7	2.00	< 2.00	
Chloroethane	75-00-3	2.00	< 2.00	
Chloroform	67-66-3	2.00	< 2.00	
Chloromethane	74-87-3	3.00	< 3.00	
Chloroprene	126-99-8	2.00	< 2.00	
cis-1,2-Dichloroethene	156-59-2	2.00	< 2.00	
cis-1,3-Dichloropropene	10061-01-5	2.00	< 2.00	
Cyclohexane	110-82-7	2.00	< 2.00	
Cyclohexanone	108-94-1	50.0	< 50.0	
Dibromochloromethane	124-48-1	2.00	< 2.00	
Dibromomethane	74-95-3	2.00	< 2.00	
Dichlorodifluoromethane	75-71-8	2.00	< 2.00	
Ethyl acetate	141-78-6	10.0	< 10.0	
Ethyl ether	60-29-7	10.0	< 10.0	
Ethyl methacrylate	97-63-2	2.00	< 2.00	
Ethylbenzene	100-41-4	2.00	< 2.00	
Hexachlorobutadiene	87-68-3	2.00	< 2.00	
Iodomethane	74-88-4	5.00	< 5.00	
Isobutyl alcohol	78-83-1	100	< 100	

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Jose Rocha
QA Officer

Lab Sample ID: 1303706-003A
Client Sample ID: North Boom / 4920397

Analyzed: 3/27/2013 2001h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8260C

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Isopropyl acetate	108-21-4	10.0	< 10.0	
Isopropyl alcohol	67-63-0	40.0	< 40.0	
Isopropylbenzene	98-82-8	2.00	< 2.00	
m,p-Xylene	179601-23-1	2.00	< 2.00	
Methacrylonitrile	126-98-7	5.00	< 5.00	
Methyl Acetate	79-20-9	5.00	< 5.00	
Methyl methacrylate	80-62-6	5.00	< 5.00	
Methyl tert-butyl ether	1634-04-4	2.00	< 2.00	
Methylcyclohexane	108-87-2	2.00	< 2.00	
Methylene chloride	75-09-2	2.00	< 2.00	
n-Amyl acetate	628-63-7	10.0	< 10.0	
n-Butyl alcohol	71-36-3	100	< 100	
n-Butylbenzene	104-51-8	2.00	< 2.00	
n-Hexane	110-54-3	2.00	< 2.00	
n-Octane	111-65-9	2.00	< 2.00	
n-Propylbenzene	103-65-1	2.00	< 2.00	
Naphthalene	91-20-3	2.00	< 2.00	
o-Xylene	95-47-6	2.00	< 2.00	
Pentachloroethane	76-01-7	5.00	< 5.00	
Propionitrile	107-12-0	25.0	< 25.0	
Propyl acetate	109-60-4	10.0	< 10.0	
sec-Butylbenzene	135-98-8	2.00	< 2.00	
Styrene	100-42-5	2.00	< 2.00	
tert-Butyl alcohol	76-65-0	20.0	< 20.0	
tert-Butylbenzene	98-06-6	2.00	< 2.00	
Tetrachloroethene	127-18-4	2.00	< 2.00	
Tetrahydrofuran	109-99-9	2.00	< 2.00	
Toluene	108-88-3	2.00	< 2.00	
trans-1,2-Dichloroethene	156-60-5	2.00	< 2.00	
trans-1,3-Dichloropropene	10061-02-6	2.00	< 2.00	
trans-1,4-Dichloro-2-butene	110-57-6	2.00	< 2.00	
Trichloroethene	79-01-6	2.00	< 2.00	
Trichlorofluoromethane	75-69-4	2.00	< 2.00	
Vinyl acetate	108-05-4	10.0	< 10.0	
Vinyl chloride	75-01-4	1.00	< 1.00	
Xylenes, Total	1330-20-7	2.00	< 2.00	

All analyses applicable to the CWA, SDWA, and RCRA are performed in accordance to NELAC protocols. Pertinent sampling information is located on the attached COC. This report is provided for the exclusive use of the addressee. Privileges of subsequent use of the name of this company or any member of its staff, or reproduction of this report in connection with the advertisement, promotion or sale of any product or process, or in connection with the re-publication of this report for any purpose other than for the addressee will be granted only on contact. This company accepts no responsibility except for the due performance of inspection and/or analysis in good faith and according to the rules of the trade and of science.

Lab Sample ID: 1303706-003A
Client Sample ID: North Boom / 4920397

Analyzed: 3/27/2013 2001h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8260C

Compound	CAS Number	Reporting Limit	Analytical Result	Qual

Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	59.0	50.00	118	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	51.6	50.00	103	80-128	
Surr: Dibromofluoromethane	1868-53-7	53.9	50.00	108	80-124	
Surr: Toluene-d8	2037-26-5	49.3	50.00	98.7	77-129	

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Jose Rocha
QA Officer

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ORGANIC ANALYTICAL REPORT

Client: Utah Division of Water Quality **Contact:** Chris Bittner
Project: MP 44.9
Lab Sample ID: 1303706-004A
Client Sample ID: W Boom 5 / 4920499
Collection Date: 3/27/2013 1050h
Received Date: 3/27/2013 1554h

Analytical Results VOAs Full List by GC/MS Method 8260C/5030C

Analyzed: 3/27/2013 2020h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8260C

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Compound	CAS Number	Reporting Limit	Analytical Result	Qual
1,1,1,2-Tetrachloroethane	630-20-6	2.00	< 2.00	
1,1,1-Trichloroethane	71-55-6	2.00	< 2.00	
1,1,2,2-Tetrachloroethane	79-34-5	2.00	< 2.00	
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	2.00	< 2.00	
1,1,2-Trichloroethane	79-00-5	2.00	< 2.00	
1,1-Dichloropropene	563-58-6	2.00	< 2.00	
1,1-Dichloroethane	75-34-3	2.00	< 2.00	
1,1-Dichloroethene	75-35-4	2.00	< 2.00	
1,2,3-Trichlorobenzene	87-61-6	2.00	< 2.00	
1,2,3-Trichloropropane	96-18-4	2.00	< 2.00	
1,2,3-Trimethylbenzene	526-73-8	2.00	< 2.00	
1,2,4-Trichlorobenzene	120-82-1	2.00	< 2.00	
1,2,4-Trimethylbenzene	95-63-6	2.00	< 2.00	
1,2-Dibromo-3-chloropropane	96-12-8	5.00	< 5.00	
1,2-Dibromoethane	106-93-4	2.00	< 2.00	
1,2-Dichlorobenzene	95-50-1	2.00	< 2.00	
1,2-Dichloroethane	107-06-2	2.00	< 2.00	
1,2-Dichloropropane	78-87-5	2.00	< 2.00	
1,3,5-Trimethylbenzene	108-67-8	2.00	< 2.00	
1,3-Dichlorobenzene	541-73-1	2.00	< 2.00	
1,3-Dichloropropane	142-28-9	2.00	< 2.00	
1,4-Dichlorobenzene	106-46-7	2.00	< 2.00	
1,4-Dioxane	123-91-1	50.0	< 50.0	
2,2-Dichloropropane	594-20-7	2.00	< 2.00	
2-Butanone	78-93-3	10.0	< 10.0	
2-Chloroethyl vinyl ether	110-75-8	5.00	< 5.00	
2-Chlorotoluene	95-49-8	2.00	< 2.00	
2-Hexanone	591-78-6	5.00	< 5.00	
2-Nitropropane	79-46-9	5.00	< 5.00	
4-Chlorotoluene	106-43-4	2.00	< 2.00	

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

Lab Sample ID: 1303706-004A
Client Sample ID: W Boom 5 / 4920499

Analyzed: 3/27/2013 2020h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8260C

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
4-Isopropyltoluene	99-87-6	2.00	< 2.00	
4-Methyl-2-pentanone	108-10-1	5.00	< 5.00	
Acetone	67-64-1	10.0	< 10.0	
Acetonitrile	75-05-8	5.00	< 5.00	
Acrolein	107-02-8	5.00	< 5.00	
Acrylonitrile	107-13-1	10.0	< 10.0	
Allyl chloride	107-05-1	5.00	< 5.00	
Benzene	71-43-2	2.00	< 2.00	
Benzyl chloride	100-44-7	5.00	< 5.00	
Bis(2-chloroisopropyl) ether	108-60-1	5.00	< 5.00	
Bromobenzene	108-86-1	2.00	< 2.00	
Bromochloromethane	74-97-5	2.00	< 2.00	
Bromodichloromethane	75-27-4	2.00	< 2.00	
Bromoform	75-25-2	2.00	< 2.00	
Bromomethane	74-83-9	5.00	< 5.00	
Butyl acetate	123-86-4	10.0	< 10.0	
Carbon disulfide	75-15-0	2.00	< 2.00	
Carbon tetrachloride	56-23-5	2.00	< 2.00	
Chlorobenzene	108-90-7	2.00	< 2.00	
Chloroethane	75-00-3	2.00	< 2.00	
Chloroform	67-66-3	2.00	< 2.00	
Chloromethane	74-87-3	3.00	< 3.00	
Chloroprene	126-99-8	2.00	< 2.00	
cis-1,2-Dichloroethene	156-59-2	2.00	< 2.00	
cis-1,3-Dichloropropene	10061-01-5	2.00	< 2.00	
Cyclohexane	110-82-7	2.00	< 2.00	
Cyclohexanone	108-94-1	50.0	< 50.0	
Dibromochloromethane	124-48-1	2.00	< 2.00	
Dibromomethane	74-95-3	2.00	< 2.00	
Dichlorodifluoromethane	75-71-8	2.00	< 2.00	
Ethyl acetate	141-78-6	10.0	< 10.0	
Ethyl ether	60-29-7	10.0	< 10.0	
Ethyl methacrylate	97-63-2	2.00	< 2.00	
Ethylbenzene	100-41-4	2.00	< 2.00	
Hexachlorobutadiene	87-68-3	2.00	< 2.00	
Iodomethane	74-88-4	5.00	< 5.00	
Isobutyl alcohol	78-83-1	100	< 100	

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Laboratory Director

Jose Rocha
QA Officer

Lab Sample ID: 1303706-004A
Client Sample ID: W Boom 5 / 4920499

Analyzed: 3/27/2013 2020h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8260C

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Isopropyl acetate	108-21-4	10.0	< 10.0	
Isopropyl alcohol	67-63-0	40.0	< 40.0	
Isopropylbenzene	98-82-8	2.00	< 2.00	
m,p-Xylene	179601-23-1	2.00	< 2.00	
Methacrylonitrile	126-98-7	5.00	< 5.00	
Methyl Acetate	79-20-9	5.00	< 5.00	
Methyl methacrylate	80-62-6	5.00	< 5.00	
Methyl tert-butyl ether	1634-04-4	2.00	< 2.00	
Methylcyclohexane	108-87-2	2.00	< 2.00	
Methylene chloride	75-09-2	2.00	< 2.00	
n-Amyl acetate	628-63-7	10.0	< 10.0	
n-Butyl alcohol	71-36-3	100	< 100	
n-Butylbenzene	104-51-8	2.00	< 2.00	
n-Hexane	110-54-3	2.00	< 2.00	
n-Octane	111-65-9	2.00	< 2.00	
n-Propylbenzene	103-65-1	2.00	< 2.00	
Naphthalene	91-20-3	2.00	< 2.00	
o-Xylene	95-47-6	2.00	< 2.00	
Pentachloroethane	76-01-7	5.00	< 5.00	
Propionitrile	107-12-0	25.0	< 25.0	
Propyl acetate	109-60-4	10.0	< 10.0	
sec-Butylbenzene	135-98-8	2.00	< 2.00	
Styrene	100-42-5	2.00	< 2.00	
tert-Butyl alcohol	76-65-0	20.0	< 20.0	
tert-Butylbenzene	98-06-6	2.00	< 2.00	
Tetrachloroethene	127-18-4	2.00	< 2.00	
Tetrahydrofuran	109-99-9	2.00	< 2.00	
Toluene	108-88-3	2.00	< 2.00	
trans-1,2-Dichloroethene	156-60-5	2.00	< 2.00	
trans-1,3-Dichloropropene	10061-02-6	2.00	< 2.00	
trans-1,4-Dichloro-2-butene	110-57-6	2.00	< 2.00	
Trichloroethene	79-01-6	2.00	< 2.00	
Trichlorofluoromethane	75-69-4	2.00	< 2.00	
Vinyl acetate	108-05-4	10.0	< 10.0	
Vinyl chloride	75-01-4	1.00	< 1.00	
Xylenes, Total	1330-20-7	2.00	< 2.00	

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Lab Sample ID: 1303706-004A
Client Sample ID: W Boom 5 / 4920499

Analyzed: 3/27/2013 2020h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8260C

Compound	CAS Number	Reporting Limit	Analytical Result	Qual

Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	58.1	50.00	116	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	52.6	50.00	105	80-128	
Surr: Dibromofluoromethane	1868-53-7	53.5	50.00	107	80-124	
Surr: Toluene-d8	2037-26-5	49.3	50.00	98.6	77-129	

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ORGANIC ANALYTICAL REPORT

Client: Utah Division of Water Quality **Contact:** Chris Bittner
Project: MP 44.9
Lab Sample ID: 1303706-005A
Client Sample ID: W Boom 4 / 4920498
Collection Date: 3/27/2013 1100h
Received Date: 3/27/2013 1554h

Analytical Results VOAs Full List by GC/MS Method 8260C/5030C

Analyzed: 3/27/2013 2117h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8260C

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Compound	CAS Number	Reporting Limit	Analytical Result	Qual
1,1,1,2-Tetrachloroethane	630-20-6	2.00	< 2.00	
1,1,1-Trichloroethane	71-55-6	2.00	< 2.00	
1,1,2,2-Tetrachloroethane	79-34-5	2.00	< 2.00	
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	2.00	< 2.00	
1,1,2-Trichloroethane	79-00-5	2.00	< 2.00	
1,1-Dichloropropene	563-58-6	2.00	< 2.00	
1,1-Dichloroethane	75-34-3	2.00	< 2.00	
1,1-Dichloroethene	75-35-4	2.00	< 2.00	
1,2,3-Trichlorobenzene	87-61-6	2.00	< 2.00	
1,2,3-Trichloropropane	96-18-4	2.00	< 2.00	
1,2,3-Trimethylbenzene	526-73-8	2.00	< 2.00	
1,2,4-Trichlorobenzene	120-82-1	2.00	< 2.00	
1,2,4-Trimethylbenzene	95-63-6	2.00	< 2.00	
1,2-Dibromo-3-chloropropane	96-12-8	5.00	< 5.00	
1,2-Dibromoethane	106-93-4	2.00	< 2.00	
1,2-Dichlorobenzene	95-50-1	2.00	< 2.00	
1,2-Dichloroethane	107-06-2	2.00	< 2.00	
1,2-Dichloropropane	78-87-5	2.00	< 2.00	
1,3,5-Trimethylbenzene	108-67-8	2.00	< 2.00	
1,3-Dichlorobenzene	541-73-1	2.00	< 2.00	
1,3-Dichloropropane	142-28-9	2.00	< 2.00	
1,4-Dichlorobenzene	106-46-7	2.00	< 2.00	
1,4-Dioxane	123-91-1	50.0	< 50.0	
2,2-Dichloropropane	594-20-7	2.00	< 2.00	
2-Butanone	78-93-3	10.0	< 10.0	
2-Chloroethyl vinyl ether	110-75-8	5.00	< 5.00	
2-Chlorotoluene	95-49-8	2.00	< 2.00	
2-Hexanone	591-78-6	5.00	< 5.00	
2-Nitropropane	79-46-9	5.00	< 5.00	
4-Chlorotoluene	106-43-4	2.00	< 2.00	

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Jose Rocha
QA Officer

Lab Sample ID: 1303706-005A
Client Sample ID: W Boom 4 / 4920498

Analyzed: 3/27/2013 2117h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8260C

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
4-Isopropyltoluene	99-87-6	2.00	< 2.00	
4-Methyl-2-pentanone	108-10-1	5.00	< 5.00	
Acetone	67-64-1	10.0	< 10.0	
Acetonitrile	75-05-8	5.00	< 5.00	
Acrolein	107-02-8	5.00	< 5.00	
Acrylonitrile	107-13-1	10.0	< 10.0	
Allyl chloride	107-05-1	5.00	< 5.00	
Benzene	71-43-2	2.00	< 2.00	
Benzyl chloride	100-44-7	5.00	< 5.00	
Bis(2-chloroisopropyl) ether	108-60-1	5.00	< 5.00	
Bromobenzene	108-86-1	2.00	< 2.00	
Bromochloromethane	74-97-5	2.00	< 2.00	
Bromodichloromethane	75-27-4	2.00	< 2.00	
Bromoform	75-25-2	2.00	< 2.00	
Bromomethane	74-83-9	5.00	< 5.00	
Butyl acetate	123-86-4	10.0	< 10.0	
Carbon disulfide	75-15-0	2.00	< 2.00	
Carbon tetrachloride	56-23-5	2.00	< 2.00	
Chlorobenzene	108-90-7	2.00	< 2.00	
Chloroethane	75-00-3	2.00	< 2.00	
Chloroform	67-66-3	2.00	< 2.00	
Chloromethane	74-87-3	3.00	< 3.00	
Chloroprene	126-99-8	2.00	< 2.00	
cis-1,2-Dichloroethene	156-59-2	2.00	< 2.00	
cis-1,3-Dichloropropene	10061-01-5	2.00	< 2.00	
Cyclohexane	110-82-7	2.00	< 2.00	
Cyclohexanone	108-94-1	50.0	< 50.0	
Dibromochloromethane	124-48-1	2.00	< 2.00	
Dibromomethane	74-95-3	2.00	< 2.00	
Dichlorodifluoromethane	75-71-8	2.00	< 2.00	
Ethyl acetate	141-78-6	10.0	< 10.0	
Ethyl ether	60-29-7	10.0	< 10.0	
Ethyl methacrylate	97-63-2	2.00	< 2.00	
Ethylbenzene	100-41-4	2.00	< 2.00	
Hexachlorobutadiene	87-68-3	2.00	< 2.00	
Iodomethane	74-88-4	5.00	< 5.00	
Isobutyl alcohol	78-83-1	100	< 100	

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Jose Rocha
QA Officer

Lab Sample ID: 1303706-005A
Client Sample ID: W Boom 4 / 4920498

Analyzed: 3/27/2013 2117h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8260C

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Isopropyl acetate	108-21-4	10.0	< 10.0	
Isopropyl alcohol	67-63-0	40.0	< 40.0	
Isopropylbenzene	98-82-8	2.00	< 2.00	
m,p-Xylene	179601-23-1	2.00	< 2.00	
Methacrylonitrile	126-98-7	5.00	< 5.00	
Methyl Acetate	79-20-9	5.00	< 5.00	
Methyl methacrylate	80-62-6	5.00	< 5.00	
Methyl tert-butyl ether	1634-04-4	2.00	< 2.00	
Methylcyclohexane	108-87-2	2.00	< 2.00	
Methylene chloride	75-09-2	2.00	< 2.00	
n-Amyl acetate	628-63-7	10.0	< 10.0	
n-Butyl alcohol	71-36-3	100	< 100	
n-Butylbenzene	104-51-8	2.00	< 2.00	
n-Hexane	110-54-3	2.00	< 2.00	
n-Octane	111-65-9	2.00	< 2.00	
n-Propylbenzene	103-65-1	2.00	< 2.00	
Naphthalene	91-20-3	2.00	< 2.00	
o-Xylene	95-47-6	2.00	< 2.00	
Pentachloroethane	76-01-7	5.00	< 5.00	
Propionitrile	107-12-0	25.0	< 25.0	
Propyl acetate	109-60-4	10.0	< 10.0	
sec-Butylbenzene	135-98-8	2.00	< 2.00	
Styrene	100-42-5	2.00	< 2.00	
tert-Butyl alcohol	76-65-0	20.0	< 20.0	
tert-Butylbenzene	98-06-6	2.00	< 2.00	
Tetrachloroethene	127-18-4	2.00	< 2.00	
Tetrahydrofuran	109-99-9	2.00	< 2.00	
Toluene	108-88-3	2.00	< 2.00	
trans-1,2-Dichloroethene	156-60-5	2.00	< 2.00	
trans-1,3-Dichloropropene	10061-02-6	2.00	< 2.00	
trans-1,4-Dichloro-2-butene	110-57-6	2.00	< 2.00	
Trichloroethene	79-01-6	2.00	< 2.00	
Trichlorofluoromethane	75-69-4	2.00	< 2.00	
Vinyl acetate	108-05-4	10.0	< 10.0	
Vinyl chloride	75-01-4	1.00	< 1.00	
Xylenes, Total	1330-20-7	2.00	< 2.00	

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Lab Sample ID: 1303706-005A
Client Sample ID: W Boom 4 / 4920498

Analyzed: 3/27/2013 2117h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8260C

Compound	CAS Number	Reporting Limit	Analytical Result	Qual

Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	58.2	50.00	116	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	51.3	50.00	103	80-128	
Surr: Dibromofluoromethane	1868-53-7	54.0	50.00	108	80-124	
Surr: Toluene-d8	2037-26-5	48.8	50.00	97.6	77-129	

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Laboratory Director

Jose Rocha
QA Officer

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ORGANIC ANALYTICAL REPORT

Client: Utah Division of Water Quality **Contact:** Chris Bittner
Project: MP 44.9
Lab Sample ID: 1303706-006A
Client Sample ID: W Boom 3 / 4920497
Collection Date: 3/27/2013 1120h
Received Date: 3/27/2013 1554h

Analytical Results VOAs Full List by GC/MS Method 8260C/5030C

Analyzed: 3/27/2013 2136h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8260C

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Compound	CAS Number	Reporting Limit	Analytical Result	Qual
1,1,1,2-Tetrachloroethane	630-20-6	2.00	< 2.00	
1,1,1-Trichloroethane	71-55-6	2.00	< 2.00	
1,1,2,2-Tetrachloroethane	79-34-5	2.00	< 2.00	
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	2.00	< 2.00	
1,1,2-Trichloroethane	79-00-5	2.00	< 2.00	
1,1-Dichloropropene	563-58-6	2.00	< 2.00	
1,1-Dichloroethane	75-34-3	2.00	< 2.00	
1,1-Dichloroethene	75-35-4	2.00	< 2.00	
1,2,3-Trichlorobenzene	87-61-6	2.00	< 2.00	
1,2,3-Trichloropropane	96-18-4	2.00	< 2.00	
1,2,3-Trimethylbenzene	526-73-8	2.00	< 2.00	
1,2,4-Trichlorobenzene	120-82-1	2.00	< 2.00	
1,2,4-Trimethylbenzene	95-63-6	2.00	< 2.00	
1,2-Dibromo-3-chloropropane	96-12-8	5.00	< 5.00	
1,2-Dibromoethane	106-93-4	2.00	< 2.00	
1,2-Dichlorobenzene	95-50-1	2.00	< 2.00	
1,2-Dichloroethane	107-06-2	2.00	< 2.00	
1,2-Dichloropropane	78-87-5	2.00	< 2.00	
1,3,5-Trimethylbenzene	108-67-8	2.00	< 2.00	
1,3-Dichlorobenzene	541-73-1	2.00	< 2.00	
1,3-Dichloropropane	142-28-9	2.00	< 2.00	
1,4-Dichlorobenzene	106-46-7	2.00	< 2.00	
1,4-Dioxane	123-91-1	50.0	< 50.0	
2,2-Dichloropropane	594-20-7	2.00	< 2.00	
2-Butanone	78-93-3	10.0	< 10.0	
2-Chloroethyl vinyl ether	110-75-8	5.00	< 5.00	
2-Chlorotoluene	95-49-8	2.00	< 2.00	
2-Hexanone	591-78-6	5.00	< 5.00	
2-Nitropropane	79-46-9	5.00	< 5.00	
4-Chlorotoluene	106-43-4	2.00	< 2.00	

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Laboratory Director

Jose Rocha
QA Officer

Lab Sample ID: 1303706-006A
Client Sample ID: W Boom 3 / 4920497

Analyzed: 3/27/2013 2136h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8260C

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
4-Isopropyltoluene	99-87-6	2.00	< 2.00	
4-Methyl-2-pentanone	108-10-1	5.00	< 5.00	
Acetone	67-64-1	10.0	< 10.0	
Acetonitrile	75-05-8	5.00	< 5.00	
Acrolein	107-02-8	5.00	< 5.00	
Acrylonitrile	107-13-1	10.0	< 10.0	
Allyl chloride	107-05-1	5.00	< 5.00	
Benzene	71-43-2	2.00	< 2.00	
Benzyl chloride	100-44-7	5.00	< 5.00	
Bis(2-chloroisopropyl) ether	108-60-1	5.00	< 5.00	
Bromobenzene	108-86-1	2.00	< 2.00	
Bromochloromethane	74-97-5	2.00	< 2.00	
Bromodichloromethane	75-27-4	2.00	< 2.00	
Bromoform	75-25-2	2.00	< 2.00	
Bromomethane	74-83-9	5.00	< 5.00	
Butyl acetate	123-86-4	10.0	< 10.0	
Carbon disulfide	75-15-0	2.00	< 2.00	
Carbon tetrachloride	56-23-5	2.00	< 2.00	
Chlorobenzene	108-90-7	2.00	< 2.00	
Chloroethane	75-00-3	2.00	< 2.00	
Chloroform	67-66-3	2.00	< 2.00	
Chloromethane	74-87-3	3.00	< 3.00	
Chloroprene	126-99-8	2.00	< 2.00	
cis-1,2-Dichloroethene	156-59-2	2.00	< 2.00	
cis-1,3-Dichloropropene	10061-01-5	2.00	< 2.00	
Cyclohexane	110-82-7	2.00	< 2.00	
Cyclohexanone	108-94-1	50.0	< 50.0	
Dibromochloromethane	124-48-1	2.00	< 2.00	
Dibromomethane	74-95-3	2.00	< 2.00	
Dichlorodifluoromethane	75-71-8	2.00	< 2.00	
Ethyl acetate	141-78-6	10.0	< 10.0	
Ethyl ether	60-29-7	10.0	< 10.0	
Ethyl methacrylate	97-63-2	2.00	< 2.00	
Ethylbenzene	100-41-4	2.00	< 2.00	
Hexachlorobutadiene	87-68-3	2.00	< 2.00	
Iodomethane	74-88-4	5.00	< 5.00	
Isobutyl alcohol	78-83-1	100	< 100	

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Laboratory Director

Jose Rocha
QA Officer

Lab Sample ID: 1303706-006A
Client Sample ID: W Boom 3 / 4920497

Analyzed: 3/27/2013 2136h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8260C

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Isopropyl acetate	108-21-4	10.0	< 10.0	
Isopropyl alcohol	67-63-0	40.0	< 40.0	
Isopropylbenzene	98-82-8	2.00	< 2.00	
m,p-Xylene	179601-23-1	2.00	< 2.00	
Methacrylonitrile	126-98-7	5.00	< 5.00	
Methyl Acetate	79-20-9	5.00	< 5.00	
Methyl methacrylate	80-62-6	5.00	< 5.00	
Methyl tert-butyl ether	1634-04-4	2.00	< 2.00	
Methylcyclohexane	108-87-2	2.00	< 2.00	
Methylene chloride	75-09-2	2.00	< 2.00	
n-Amyl acetate	628-63-7	10.0	< 10.0	
n-Butyl alcohol	71-36-3	100	< 100	
n-Butylbenzene	104-51-8	2.00	< 2.00	
n-Hexane	110-54-3	2.00	< 2.00	
n-Octane	111-65-9	2.00	< 2.00	
n-Propylbenzene	103-65-1	2.00	< 2.00	
Naphthalene	91-20-3	2.00	< 2.00	
o-Xylene	95-47-6	2.00	< 2.00	
Pentachloroethane	76-01-7	5.00	< 5.00	
Propionitrile	107-12-0	25.0	< 25.0	
Propyl acetate	109-60-4	10.0	< 10.0	
sec-Butylbenzene	135-98-8	2.00	< 2.00	
Styrene	100-42-5	2.00	< 2.00	
tert-Butyl alcohol	76-65-0	20.0	< 20.0	
tert-Butylbenzene	98-06-6	2.00	< 2.00	
Tetrachloroethene	127-18-4	2.00	< 2.00	
Tetrahydrofuran	109-99-9	2.00	< 2.00	
Toluene	108-88-3	2.00	< 2.00	
trans-1,2-Dichloroethene	156-60-5	2.00	< 2.00	
trans-1,3-Dichloropropene	10061-02-6	2.00	< 2.00	
trans-1,4-Dichloro-2-butene	110-57-6	2.00	< 2.00	
Trichloroethene	79-01-6	2.00	< 2.00	
Trichlorofluoromethane	75-69-4	2.00	< 2.00	
Vinyl acetate	108-05-4	10.0	< 10.0	
Vinyl chloride	75-01-4	1.00	< 1.00	
Xylenes, Total	1330-20-7	2.00	< 2.00	

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Lab Sample ID: 1303706-006A
Client Sample ID: W Boom 3 / 4920497

Analyzed: 3/27/2013 2136h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8260C

Compound	CAS Number	Reporting Limit	Analytical Result	Qual

Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	58.0	50.00	116	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	52.0	50.00	104	80-128	
Surr: Dibromofluoromethane	1868-53-7	53.0	50.00	106	80-124	
Surr: Toluene-d8	2037-26-5	49.0	50.00	98.0	77-129	

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ORGANIC ANALYTICAL REPORT

Client: Utah Division of Water Quality **Contact:** Chris Bittner
Project: MP 44.9
Lab Sample ID: 1303706-007A
Client Sample ID: W Boom 2 / 4920496
Collection Date: 3/27/2013 1130h
Received Date: 3/27/2013 1554h

Analytical Results VOAs Full List by GC/MS Method 8260C/5030C

Analyzed: 3/27/2013 2155h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8260C

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Compound	CAS Number	Reporting Limit	Analytical Result	Qual
1,1,1,2-Tetrachloroethane	630-20-6	2.00	< 2.00	
1,1,1-Trichloroethane	71-55-6	2.00	< 2.00	
1,1,2,2-Tetrachloroethane	79-34-5	2.00	< 2.00	
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	2.00	< 2.00	
1,1,2-Trichloroethane	79-00-5	2.00	< 2.00	
1,1-Dichloropropene	563-58-6	2.00	< 2.00	
1,1-Dichloroethane	75-34-3	2.00	< 2.00	
1,1-Dichloroethene	75-35-4	2.00	< 2.00	
1,2,3-Trichlorobenzene	87-61-6	2.00	< 2.00	
1,2,3-Trichloropropane	96-18-4	2.00	< 2.00	
1,2,3-Trimethylbenzene	526-73-8	2.00	< 2.00	
1,2,4-Trichlorobenzene	120-82-1	2.00	< 2.00	
1,2,4-Trimethylbenzene	95-63-6	2.00	< 2.00	
1,2-Dibromo-3-chloropropane	96-12-8	5.00	< 5.00	
1,2-Dibromoethane	106-93-4	2.00	< 2.00	
1,2-Dichlorobenzene	95-50-1	2.00	< 2.00	
1,2-Dichloroethane	107-06-2	2.00	< 2.00	
1,2-Dichloropropane	78-87-5	2.00	< 2.00	
1,3,5-Trimethylbenzene	108-67-8	2.00	< 2.00	
1,3-Dichlorobenzene	541-73-1	2.00	< 2.00	
1,3-Dichloropropane	142-28-9	2.00	< 2.00	
1,4-Dichlorobenzene	106-46-7	2.00	< 2.00	
1,4-Dioxane	123-91-1	50.0	< 50.0	
2,2-Dichloropropane	594-20-7	2.00	< 2.00	
2-Butanone	78-93-3	10.0	< 10.0	
2-Chloroethyl vinyl ether	110-75-8	5.00	< 5.00	
2-Chlorotoluene	95-49-8	2.00	< 2.00	
2-Hexanone	591-78-6	5.00	< 5.00	
2-Nitropropane	79-46-9	5.00	< 5.00	
4-Chlorotoluene	106-43-4	2.00	< 2.00	

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Jose Rocha
QA Officer

Lab Sample ID: 1303706-007A
Client Sample ID: W Boom 2 / 4920496

Analyzed: 3/27/2013 2155h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8260C

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
4-Isopropyltoluene	99-87-6	2.00	< 2.00	
4-Methyl-2-pentanone	108-10-1	5.00	< 5.00	
Acetone	67-64-1	10.0	< 10.0	
Acetonitrile	75-05-8	5.00	< 5.00	
Acrolein	107-02-8	5.00	< 5.00	
Acrylonitrile	107-13-1	10.0	< 10.0	
Allyl chloride	107-05-1	5.00	< 5.00	
Benzene	71-43-2	2.00	< 2.00	
Benzyl chloride	100-44-7	5.00	< 5.00	
Bis(2-chloroisopropyl) ether	108-60-1	5.00	< 5.00	
Bromobenzene	108-86-1	2.00	< 2.00	
Bromochloromethane	74-97-5	2.00	< 2.00	
Bromodichloromethane	75-27-4	2.00	< 2.00	
Bromoform	75-25-2	2.00	< 2.00	
Bromomethane	74-83-9	5.00	< 5.00	
Butyl acetate	123-86-4	10.0	< 10.0	
Carbon disulfide	75-15-0	2.00	< 2.00	
Carbon tetrachloride	56-23-5	2.00	< 2.00	
Chlorobenzene	108-90-7	2.00	< 2.00	
Chloroethane	75-00-3	2.00	< 2.00	
Chloroform	67-66-3	2.00	< 2.00	
Chloromethane	74-87-3	3.00	< 3.00	
Chloroprene	126-99-8	2.00	< 2.00	
cis-1,2-Dichloroethene	156-59-2	2.00	< 2.00	
cis-1,3-Dichloropropene	10061-01-5	2.00	< 2.00	
Cyclohexane	110-82-7	2.00	< 2.00	
Cyclohexanone	108-94-1	50.0	< 50.0	
Dibromochloromethane	124-48-1	2.00	< 2.00	
Dibromomethane	74-95-3	2.00	< 2.00	
Dichlorodifluoromethane	75-71-8	2.00	< 2.00	
Ethyl acetate	141-78-6	10.0	< 10.0	
Ethyl ether	60-29-7	10.0	< 10.0	
Ethyl methacrylate	97-63-2	2.00	< 2.00	
Ethylbenzene	100-41-4	2.00	< 2.00	
Hexachlorobutadiene	87-68-3	2.00	< 2.00	
Iodomethane	74-88-4	5.00	< 5.00	
Isobutyl alcohol	78-83-1	100	< 100	

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QA Officer

Lab Sample ID: 1303706-007A
Client Sample ID: W Boom 2 / 4920496

Analyzed: 3/27/2013 2155h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8260C

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Isopropyl acetate	108-21-4	10.0	< 10.0	
Isopropyl alcohol	67-63-0	40.0	< 40.0	
Isopropylbenzene	98-82-8	2.00	< 2.00	
m,p-Xylene	179601-23-1	2.00	< 2.00	
Methacrylonitrile	126-98-7	5.00	< 5.00	
Methyl Acetate	79-20-9	5.00	< 5.00	
Methyl methacrylate	80-62-6	5.00	< 5.00	
Methyl tert-butyl ether	1634-04-4	2.00	< 2.00	
Methylcyclohexane	108-87-2	2.00	< 2.00	
Methylene chloride	75-09-2	2.00	< 2.00	
n-Amyl acetate	628-63-7	10.0	< 10.0	
n-Butyl alcohol	71-36-3	100	< 100	
n-Butylbenzene	104-51-8	2.00	< 2.00	
n-Hexane	110-54-3	2.00	< 2.00	
n-Octane	111-65-9	2.00	< 2.00	
n-Propylbenzene	103-65-1	2.00	< 2.00	
Naphthalene	91-20-3	2.00	< 2.00	
o-Xylene	95-47-6	2.00	< 2.00	
Pentachloroethane	76-01-7	5.00	< 5.00	
Propionitrile	107-12-0	25.0	< 25.0	
Propyl acetate	109-60-4	10.0	< 10.0	
sec-Butylbenzene	135-98-8	2.00	< 2.00	
Styrene	100-42-5	2.00	< 2.00	
tert-Butyl alcohol	76-65-0	20.0	< 20.0	
tert-Butylbenzene	98-06-6	2.00	< 2.00	
Tetrachloroethene	127-18-4	2.00	< 2.00	
Tetrahydrofuran	109-99-9	2.00	< 2.00	
Toluene	108-88-3	2.00	< 2.00	
trans-1,2-Dichloroethene	156-60-5	2.00	< 2.00	
trans-1,3-Dichloropropene	10061-02-6	2.00	< 2.00	
trans-1,4-Dichloro-2-butene	110-57-6	2.00	< 2.00	
Trichloroethene	79-01-6	2.00	< 2.00	
Trichlorofluoromethane	75-69-4	2.00	< 2.00	
Vinyl acetate	108-05-4	10.0	< 10.0	
Vinyl chloride	75-01-4	1.00	< 1.00	
Xylenes, Total	1330-20-7	2.00	< 2.00	

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Lab Sample ID: 1303706-007A
Client Sample ID: W Boom 2 / 4920496

Analyzed: 3/27/2013 2155h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8260C

Compound	CAS Number	Reporting Limit	Analytical Result	Qual

Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	58.5	50.00	117	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	51.2	50.00	102	80-128	
Surr: Dibromofluoromethane	1868-53-7	54.0	50.00	108	80-124	
Surr: Toluene-d8	2037-26-5	49.1	50.00	98.2	77-129	

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Laboratory Director

Jose Rocha
QA Officer

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ORGANIC ANALYTICAL REPORT

Client: Utah Division of Water Quality **Contact:** Chris Bittner
Project: MP 44.9
Lab Sample ID: 1303706-008A
Client Sample ID: W Boom 1 / 4920396
Collection Date: 3/27/2013 1140h
Received Date: 3/27/2013 1554h

Analytical Results VOAs Full List by GC/MS Method 8260C/5030C

Analyzed: 3/27/2013 2214h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8260C

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Compound	CAS Number	Reporting Limit	Analytical Result	Qual
1,1,1,2-Tetrachloroethane	630-20-6	2.00	< 2.00	
1,1,1-Trichloroethane	71-55-6	2.00	< 2.00	
1,1,2,2-Tetrachloroethane	79-34-5	2.00	< 2.00	
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	2.00	< 2.00	
1,1,2-Trichloroethane	79-00-5	2.00	< 2.00	
1,1-Dichloropropene	563-58-6	2.00	< 2.00	
1,1-Dichloroethane	75-34-3	2.00	< 2.00	
1,1-Dichloroethene	75-35-4	2.00	< 2.00	
1,2,3-Trichlorobenzene	87-61-6	2.00	< 2.00	
1,2,3-Trichloropropane	96-18-4	2.00	< 2.00	
1,2,3-Trimethylbenzene	526-73-8	2.00	**4.12**	
1,2,4-Trichlorobenzene	120-82-1	2.00	< 2.00	
1,2,4-Trimethylbenzene	95-63-6	2.00	**6.87**	
1,2-Dibromo-3-chloropropane	96-12-8	5.00	< 5.00	
1,2-Dibromoethane	106-93-4	2.00	< 2.00	
1,2-Dichlorobenzene	95-50-1	2.00	< 2.00	
1,2-Dichloroethane	107-06-2	2.00	< 2.00	
1,2-Dichloropropane	78-87-5	2.00	< 2.00	
1,3,5-Trimethylbenzene	108-67-8	2.00	< 2.00	
1,3-Dichlorobenzene	541-73-1	2.00	< 2.00	
1,3-Dichloropropane	142-28-9	2.00	< 2.00	
1,4-Dichlorobenzene	106-46-7	2.00	< 2.00	
1,4-Dioxane	123-91-1	50.0	< 50.0	
2,2-Dichloropropane	594-20-7	2.00	< 2.00	
2-Butanone	78-93-3	10.0	< 10.0	
2-Chloroethyl vinyl ether	110-75-8	5.00	< 5.00	
2-Chlorotoluene	95-49-8	2.00	< 2.00	
2-Hexanone	591-78-6	5.00	< 5.00	
2-Nitropropane	79-46-9	5.00	< 5.00	
4-Chlorotoluene	106-43-4	2.00	< 2.00	

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

Lab Sample ID: 1303706-008A
Client Sample ID: W Boom 1 / 4920396

Analyzed: 3/27/2013 2214h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8260C

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
4-Isopropyltoluene	99-87-6	2.00	< 2.00	
4-Methyl-2-pentanone	108-10-1	5.00	< 5.00	
Acetone	67-64-1	10.0	< 10.0	
Acetonitrile	75-05-8	5.00	< 5.00	
Acrolein	107-02-8	5.00	< 5.00	
Acrylonitrile	107-13-1	10.0	< 10.0	
Allyl chloride	107-05-1	5.00	< 5.00	
Benzene	71-43-2	2.00	< 2.00	
Benzyl chloride	100-44-7	5.00	< 5.00	
Bis(2-chloroisopropyl) ether	108-60-1	5.00	< 5.00	
Bromobenzene	108-86-1	2.00	< 2.00	
Bromochloromethane	74-97-5	2.00	< 2.00	
Bromodichloromethane	75-27-4	2.00	< 2.00	
Bromoform	75-25-2	2.00	< 2.00	
Bromomethane	74-83-9	5.00	< 5.00	
Butyl acetate	123-86-4	10.0	< 10.0	
Carbon disulfide	75-15-0	2.00	< 2.00	
Carbon tetrachloride	56-23-5	2.00	< 2.00	
Chlorobenzene	108-90-7	2.00	< 2.00	
Chloroethane	75-00-3	2.00	< 2.00	
Chloroform	67-66-3	2.00	< 2.00	
Chloromethane	74-87-3	3.00	< 3.00	
Chloroprene	126-99-8	2.00	< 2.00	
cis-1,2-Dichloroethene	156-59-2	2.00	< 2.00	
cis-1,3-Dichloropropene	10061-01-5	2.00	< 2.00	
Cyclohexane	110-82-7	2.00	< 2.00	
Cyclohexanone	108-94-1	50.0	< 50.0	
Dibromochloromethane	124-48-1	2.00	< 2.00	
Dibromomethane	74-95-3	2.00	< 2.00	
Dichlorodifluoromethane	75-71-8	2.00	< 2.00	
Ethyl acetate	141-78-6	10.0	< 10.0	
Ethyl ether	60-29-7	10.0	< 10.0	
Ethyl methacrylate	97-63-2	2.00	< 2.00	
Ethylbenzene	100-41-4	2.00	< 2.00	
Hexachlorobutadiene	87-68-3	2.00	< 2.00	
Iodomethane	74-88-4	5.00	< 5.00	
Isobutyl alcohol	78-83-1	100	< 100	

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Laboratory Director

Jose Rocha
QA Officer

Lab Sample ID: 1303706-008A
Client Sample ID: W Boom 1 / 4920396

Analyzed: 3/27/2013 2214h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8260C

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Isopropyl acetate	108-21-4	10.0	< 10.0	
Isopropyl alcohol	67-63-0	40.0	< 40.0	
Isopropylbenzene	98-82-8	2.00	< 2.00	
m,p-Xylene	179601-23-1	2.00	**3.59**	
Methacrylonitrile	126-98-7	5.00	< 5.00	
Methyl Acetate	79-20-9	5.00	< 5.00	
Methyl methacrylate	80-62-6	5.00	< 5.00	
Methyl tert-butyl ether	1634-04-4	2.00	< 2.00	
Methylcyclohexane	108-87-2	2.00	< 2.00	
Methylene chloride	75-09-2	2.00	< 2.00	
n-Amyl acetate	628-63-7	10.0	< 10.0	
n-Butyl alcohol	71-36-3	100	< 100	
n-Butylbenzene	104-51-8	2.00	< 2.00	
n-Hexane	110-54-3	2.00	< 2.00	
n-Octane	111-65-9	2.00	< 2.00	
n-Propylbenzene	103-65-1	2.00	< 2.00	
Naphthalene	91-20-3	2.00	**2.15**	
o-Xylene	95-47-6	2.00	< 2.00	
Pentachloroethane	76-01-7	5.00	< 5.00	
Propionitrile	107-12-0	25.0	< 25.0	
Propyl acetate	109-60-4	10.0	< 10.0	
sec-Butylbenzene	135-98-8	2.00	< 2.00	
Styrene	100-42-5	2.00	< 2.00	
tert-Butyl alcohol	76-65-0	20.0	< 20.0	
tert-Butylbenzene	98-06-6	2.00	< 2.00	
Tetrachloroethene	127-18-4	2.00	< 2.00	
Tetrahydrofuran	109-99-9	2.00	< 2.00	
Toluene	108-88-3	2.00	< 2.00	
trans-1,2-Dichloroethene	156-60-5	2.00	< 2.00	
trans-1,3-Dichloropropene	10061-02-6	2.00	< 2.00	
trans-1,4-Dichloro-2-butene	110-57-6	2.00	< 2.00	
Trichloroethene	79-01-6	2.00	< 2.00	
Trichlorofluoromethane	75-69-4	2.00	< 2.00	
Vinyl acetate	108-05-4	10.0	< 10.0	
Vinyl chloride	75-01-4	1.00	< 1.00	
Xylenes, Total	1330-20-7	2.00	**4.92**	

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Lab Sample ID: 1303706-008A
Client Sample ID: W Boom 1 / 4920396

Analyzed: 3/27/2013 2214h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8260C

Compound	CAS Number	Reporting Limit	Analytical Result	Qual

Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	58.5	50.00	117	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	48.7	50.00	97.5	80-128	
Surr: Dibromofluoromethane	1868-53-7	53.1	50.00	106	80-124	
Surr: Toluene-d8	2037-26-5	49.1	50.00	98.2	77-129	

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ORGANIC ANALYTICAL REPORT

Client: Utah Division of Water Quality **Contact:** Chris Bittner
Project: MP 44.9
Lab Sample ID: 1303706-009A
Client Sample ID: 50' From 0397 / 4920508
Collection Date: 3/27/2013 1040h
Received Date: 3/27/2013 1554h

Analytical Results VOAs Full List by GC/MS Method 8260C/5030C

Analyzed: 3/27/2013 2233h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8260C

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Compound	CAS Number	Reporting Limit	Analytical Result	Qual
1,1,1,2-Tetrachloroethane	630-20-6	2.00	< 2.00	
1,1,1-Trichloroethane	71-55-6	2.00	< 2.00	
1,1,2,2-Tetrachloroethane	79-34-5	2.00	< 2.00	
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	2.00	< 2.00	
1,1,2-Trichloroethane	79-00-5	2.00	< 2.00	
1,1-Dichloropropene	563-58-6	2.00	< 2.00	
1,1-Dichloroethane	75-34-3	2.00	< 2.00	
1,1-Dichloroethene	75-35-4	2.00	< 2.00	
1,2,3-Trichlorobenzene	87-61-6	2.00	< 2.00	
1,2,3-Trichloropropane	96-18-4	2.00	< 2.00	
1,2,3-Trimethylbenzene	526-73-8	2.00	< 2.00	
1,2,4-Trichlorobenzene	120-82-1	2.00	< 2.00	
1,2,4-Trimethylbenzene	95-63-6	2.00	< 2.00	
1,2-Dibromo-3-chloropropane	96-12-8	5.00	< 5.00	
1,2-Dibromoethane	106-93-4	2.00	< 2.00	
1,2-Dichlorobenzene	95-50-1	2.00	< 2.00	
1,2-Dichloroethane	107-06-2	2.00	< 2.00	
1,2-Dichloropropane	78-87-5	2.00	< 2.00	
1,3,5-Trimethylbenzene	108-67-8	2.00	< 2.00	
1,3-Dichlorobenzene	541-73-1	2.00	< 2.00	
1,3-Dichloropropane	142-28-9	2.00	< 2.00	
1,4-Dichlorobenzene	106-46-7	2.00	< 2.00	
1,4-Dioxane	123-91-1	50.0	< 50.0	
2,2-Dichloropropane	594-20-7	2.00	< 2.00	
2-Butanone	78-93-3	10.0	< 10.0	
2-Chloroethyl vinyl ether	110-75-8	5.00	< 5.00	
2-Chlorotoluene	95-49-8	2.00	< 2.00	
2-Hexanone	591-78-6	5.00	< 5.00	
2-Nitropropane	79-46-9	5.00	< 5.00	
4-Chlorotoluene	106-43-4	2.00	< 2.00	

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Jose Rocha
QA Officer

Lab Sample ID: 1303706-009A
Client Sample ID: 50' From 0397 / 4920508

Analyzed: 3/27/2013 2233h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8260C

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
4-Isopropyltoluene	99-87-6	2.00	< 2.00	
4-Methyl-2-pentanone	108-10-1	5.00	< 5.00	
Acetone	67-64-1	10.0	< 10.0	
Acetonitrile	75-05-8	5.00	< 5.00	
Acrolein	107-02-8	5.00	< 5.00	
Acrylonitrile	107-13-1	10.0	< 10.0	
Allyl chloride	107-05-1	5.00	< 5.00	
Benzene	71-43-2	2.00	< 2.00	
Benzyl chloride	100-44-7	5.00	< 5.00	
Bis(2-chloroisopropyl) ether	108-60-1	5.00	< 5.00	
Bromobenzene	108-86-1	2.00	< 2.00	
Bromochloromethane	74-97-5	2.00	< 2.00	
Bromodichloromethane	75-27-4	2.00	< 2.00	
Bromoform	75-25-2	2.00	< 2.00	
Bromomethane	74-83-9	5.00	< 5.00	
Butyl acetate	123-86-4	10.0	< 10.0	
Carbon disulfide	75-15-0	2.00	< 2.00	
Carbon tetrachloride	56-23-5	2.00	< 2.00	
Chlorobenzene	108-90-7	2.00	< 2.00	
Chloroethane	75-00-3	2.00	< 2.00	
Chloroform	67-66-3	2.00	< 2.00	
Chloromethane	74-87-3	3.00	< 3.00	
Chloroprene	126-99-8	2.00	< 2.00	
cis-1,2-Dichloroethene	156-59-2	2.00	< 2.00	
cis-1,3-Dichloropropene	10061-01-5	2.00	< 2.00	
Cyclohexane	110-82-7	2.00	< 2.00	
Cyclohexanone	108-94-1	50.0	< 50.0	
Dibromochloromethane	124-48-1	2.00	< 2.00	
Dibromomethane	74-95-3	2.00	< 2.00	
Dichlorodifluoromethane	75-71-8	2.00	< 2.00	
Ethyl acetate	141-78-6	10.0	< 10.0	
Ethyl ether	60-29-7	10.0	< 10.0	
Ethyl methacrylate	97-63-2	2.00	< 2.00	
Ethylbenzene	100-41-4	2.00	< 2.00	
Hexachlorobutadiene	87-68-3	2.00	< 2.00	
Iodomethane	74-88-4	5.00	< 5.00	
Isobutyl alcohol	78-83-1	100	< 100	

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Jose Rocha
QA Officer

Lab Sample ID: 1303706-009A
Client Sample ID: 50' From 0397 / 4920508

Analyzed: 3/27/2013 2233h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8260C

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Isopropyl acetate	108-21-4	10.0	< 10.0	
Isopropyl alcohol	67-63-0	40.0	< 40.0	
Isopropylbenzene	98-82-8	2.00	< 2.00	
m,p-Xylene	179601-23-1	2.00	< 2.00	
Methacrylonitrile	126-98-7	5.00	< 5.00	
Methyl Acetate	79-20-9	5.00	< 5.00	
Methyl methacrylate	80-62-6	5.00	< 5.00	
Methyl tert-butyl ether	1634-04-4	2.00	< 2.00	
Methylcyclohexane	108-87-2	2.00	< 2.00	
Methylene chloride	75-09-2	2.00	< 2.00	
n-Amyl acetate	628-63-7	10.0	< 10.0	
n-Butyl alcohol	71-36-3	100	< 100	
n-Butylbenzene	104-51-8	2.00	< 2.00	
n-Hexane	110-54-3	2.00	< 2.00	
n-Octane	111-65-9	2.00	< 2.00	
n-Propylbenzene	103-65-1	2.00	< 2.00	
Naphthalene	91-20-3	2.00	< 2.00	
o-Xylene	95-47-6	2.00	< 2.00	
Pentachloroethane	76-01-7	5.00	< 5.00	
Propionitrile	107-12-0	25.0	< 25.0	
Propyl acetate	109-60-4	10.0	< 10.0	
sec-Butylbenzene	135-98-8	2.00	< 2.00	
Styrene	100-42-5	2.00	< 2.00	
tert-Butyl alcohol	76-65-0	20.0	< 20.0	
tert-Butylbenzene	98-06-6	2.00	< 2.00	
Tetrachloroethene	127-18-4	2.00	< 2.00	
Tetrahydrofuran	109-99-9	2.00	< 2.00	
Toluene	108-88-3	2.00	< 2.00	
trans-1,2-Dichloroethene	156-60-5	2.00	< 2.00	
trans-1,3-Dichloropropene	10061-02-6	2.00	< 2.00	
trans-1,4-Dichloro-2-butene	110-57-6	2.00	< 2.00	
Trichloroethene	79-01-6	2.00	< 2.00	
Trichlorofluoromethane	75-69-4	2.00	< 2.00	
Vinyl acetate	108-05-4	10.0	< 10.0	
Vinyl chloride	75-01-4	1.00	< 1.00	
Xylenes, Total	1330-20-7	2.00	< 2.00	

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Lab Sample ID: 1303706-009A
Client Sample ID: 50' From 0397 / 4920508

Analyzed: 3/27/2013 2233h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8260C

Compound	CAS Number	Reporting Limit	Analytical Result	Qual

Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	52.8	50.00	106	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	52.1	50.00	104	80-128	
Surr: Dibromofluoromethane	1868-53-7	51.5	50.00	103	80-124	
Surr: Toluene-d8	2037-26-5	50.3	50.00	101	77-129	

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

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ORGANIC ANALYTICAL REPORT

Client: Utah Division of Water Quality **Contact:** Chris Bittner
Project: MP 44.9
Lab Sample ID: 1303706-010A
Client Sample ID: 50' From 0498 / 4920502
Collection Date: 3/27/2013 1110h
Received Date: 3/27/2013 1554h

Analytical Results VOAs Full List by GC/MS Method 8260C/5030C

Analyzed: 3/27/2013 2252h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8260C

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Compound	CAS Number	Reporting Limit	Analytical Result	Qual
1,1,1,2-Tetrachloroethane	630-20-6	2.00	< 2.00	
1,1,1-Trichloroethane	71-55-6	2.00	< 2.00	
1,1,2,2-Tetrachloroethane	79-34-5	2.00	< 2.00	
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	2.00	< 2.00	
1,1,2-Trichloroethane	79-00-5	2.00	< 2.00	
1,1-Dichloropropene	563-58-6	2.00	< 2.00	
1,1-Dichloroethane	75-34-3	2.00	< 2.00	
1,1-Dichloroethene	75-35-4	2.00	< 2.00	
1,2,3-Trichlorobenzene	87-61-6	2.00	< 2.00	
1,2,3-Trichloropropane	96-18-4	2.00	< 2.00	
1,2,3-Trimethylbenzene	526-73-8	2.00	< 2.00	
1,2,4-Trichlorobenzene	120-82-1	2.00	< 2.00	
1,2,4-Trimethylbenzene	95-63-6	2.00	< 2.00	
1,2-Dibromo-3-chloropropane	96-12-8	5.00	< 5.00	
1,2-Dibromoethane	106-93-4	2.00	< 2.00	
1,2-Dichlorobenzene	95-50-1	2.00	< 2.00	
1,2-Dichloroethane	107-06-2	2.00	< 2.00	
1,2-Dichloropropane	78-87-5	2.00	< 2.00	
1,3,5-Trimethylbenzene	108-67-8	2.00	< 2.00	
1,3-Dichlorobenzene	541-73-1	2.00	< 2.00	
1,3-Dichloropropane	142-28-9	2.00	< 2.00	
1,4-Dichlorobenzene	106-46-7	2.00	< 2.00	
1,4-Dioxane	123-91-1	50.0	< 50.0	
2,2-Dichloropropane	594-20-7	2.00	< 2.00	
2-Butanone	78-93-3	10.0	< 10.0	
2-Chloroethyl vinyl ether	110-75-8	5.00	< 5.00	
2-Chlorotoluene	95-49-8	2.00	< 2.00	
2-Hexanone	591-78-6	5.00	< 5.00	
2-Nitropropane	79-46-9	5.00	< 5.00	
4-Chlorotoluene	106-43-4	2.00	< 2.00	

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

Lab Sample ID: 1303706-010A
Client Sample ID: 50' From 0498 / 4920502

Analyzed: 3/27/2013 2252h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8260C

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
4-Isopropyltoluene	99-87-6	2.00	< 2.00	
4-Methyl-2-pentanone	108-10-1	5.00	< 5.00	
Acetone	67-64-1	10.0	< 10.0	
Acetonitrile	75-05-8	5.00	< 5.00	
Acrolein	107-02-8	5.00	< 5.00	
Acrylonitrile	107-13-1	10.0	< 10.0	
Allyl chloride	107-05-1	5.00	< 5.00	
Benzene	71-43-2	2.00	< 2.00	
Benzyl chloride	100-44-7	5.00	< 5.00	
Bis(2-chloroisopropyl) ether	108-60-1	5.00	< 5.00	
Bromobenzene	108-86-1	2.00	< 2.00	
Bromochloromethane	74-97-5	2.00	< 2.00	
Bromodichloromethane	75-27-4	2.00	< 2.00	
Bromoform	75-25-2	2.00	< 2.00	
Bromomethane	74-83-9	5.00	< 5.00	
Butyl acetate	123-86-4	10.0	< 10.0	
Carbon disulfide	75-15-0	2.00	< 2.00	
Carbon tetrachloride	56-23-5	2.00	< 2.00	
Chlorobenzene	108-90-7	2.00	< 2.00	
Chloroethane	75-00-3	2.00	< 2.00	
Chloroform	67-66-3	2.00	< 2.00	
Chloromethane	74-87-3	3.00	< 3.00	
Chloroprene	126-99-8	2.00	< 2.00	
cis-1,2-Dichloroethene	156-59-2	2.00	< 2.00	
cis-1,3-Dichloropropene	10061-01-5	2.00	< 2.00	
Cyclohexane	110-82-7	2.00	< 2.00	
Cyclohexanone	108-94-1	50.0	< 50.0	
Dibromochloromethane	124-48-1	2.00	< 2.00	
Dibromomethane	74-95-3	2.00	< 2.00	
Dichlorodifluoromethane	75-71-8	2.00	< 2.00	
Ethyl acetate	141-78-6	10.0	< 10.0	
Ethyl ether	60-29-7	10.0	< 10.0	
Ethyl methacrylate	97-63-2	2.00	< 2.00	
Ethylbenzene	100-41-4	2.00	< 2.00	
Hexachlorobutadiene	87-68-3	2.00	< 2.00	
Iodomethane	74-88-4	5.00	< 5.00	
Isobutyl alcohol	78-83-1	100	< 100	

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Laboratory Director

Jose Rocha
QA Officer

Lab Sample ID: 1303706-010A
Client Sample ID: 50' From 0498 / 4920502

Analyzed: 3/27/2013 2252h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8260C

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Isopropyl acetate	108-21-4	10.0	< 10.0	
Isopropyl alcohol	67-63-0	40.0	< 40.0	
Isopropylbenzene	98-82-8	2.00	< 2.00	
m,p-Xylene	179601-23-1	2.00	< 2.00	
Methacrylonitrile	126-98-7	5.00	< 5.00	
Methyl Acetate	79-20-9	5.00	< 5.00	
Methyl methacrylate	80-62-6	5.00	< 5.00	
Methyl tert-butyl ether	1634-04-4	2.00	< 2.00	
Methylcyclohexane	108-87-2	2.00	< 2.00	
Methylene chloride	75-09-2	2.00	< 2.00	
n-Amyl acetate	628-63-7	10.0	< 10.0	
n-Butyl alcohol	71-36-3	100	< 100	
n-Butylbenzene	104-51-8	2.00	< 2.00	
n-Hexane	110-54-3	2.00	< 2.00	
n-Octane	111-65-9	2.00	< 2.00	
n-Propylbenzene	103-65-1	2.00	< 2.00	
Naphthalene	91-20-3	2.00	< 2.00	
o-Xylene	95-47-6	2.00	< 2.00	
Pentachloroethane	76-01-7	5.00	< 5.00	
Propionitrile	107-12-0	25.0	< 25.0	
Propyl acetate	109-60-4	10.0	< 10.0	
sec-Butylbenzene	135-98-8	2.00	< 2.00	
Styrene	100-42-5	2.00	< 2.00	
tert-Butyl alcohol	76-65-0	20.0	< 20.0	
tert-Butylbenzene	98-06-6	2.00	< 2.00	
Tetrachloroethene	127-18-4	2.00	< 2.00	
Tetrahydrofuran	109-99-9	2.00	< 2.00	
Toluene	108-88-3	2.00	< 2.00	
trans-1,2-Dichloroethene	156-60-5	2.00	< 2.00	
trans-1,3-Dichloropropene	10061-02-6	2.00	< 2.00	
trans-1,4-Dichloro-2-butene	110-57-6	2.00	< 2.00	
Trichloroethene	79-01-6	2.00	< 2.00	
Trichlorofluoromethane	75-69-4	2.00	< 2.00	
Vinyl acetate	108-05-4	10.0	< 10.0	
Vinyl chloride	75-01-4	1.00	< 1.00	
Xylenes, Total	1330-20-7	2.00	< 2.00	

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Lab Sample ID: 1303706-010A
Client Sample ID: 50' From 0498 / 4920502

Analyzed: 3/27/2013 2252h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8260C

Compound	CAS Number	Reporting Limit	Analytical Result	Qual

Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	53.7	50.00	107	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	52.2	50.00	104	80-128	
Surr: Dibromofluoromethane	1868-53-7	51.3	50.00	103	80-124	
Surr: Toluene-d8	2037-26-5	50.5	50.00	101	77-129	

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ORGANIC ANALYTICAL REPORT

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

Client: Utah Division of Water Quality **Contact:** Chris Bittner
Project: MP 44.9
Lab Sample ID: 1303706-011A
Client Sample ID: 50' From 0396 / 4920505
Collection Date: 3/27/2013 1150h
Received Date: 3/27/2013 1554h

Analytical Results VOAs Full List by GC/MS Method 8260C/5030C

Analyzed: 3/27/2013 2311h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8260C

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
1,1,1,2-Tetrachloroethane	630-20-6	2.00	< 2.00	
1,1,1-Trichloroethane	71-55-6	2.00	< 2.00	
1,1,2,2-Tetrachloroethane	79-34-5	2.00	< 2.00	
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	2.00	< 2.00	
1,1,2-Trichloroethane	79-00-5	2.00	< 2.00	
1,1-Dichloropropene	563-58-6	2.00	< 2.00	
1,1-Dichloroethane	75-34-3	2.00	< 2.00	
1,1-Dichloroethene	75-35-4	2.00	< 2.00	
1,2,3-Trichlorobenzene	87-61-6	2.00	< 2.00	
1,2,3-Trichloropropane	96-18-4	2.00	< 2.00	
1,2,3-Trimethylbenzene	526-73-8	2.00	< 2.00	
1,2,4-Trichlorobenzene	120-82-1	2.00	< 2.00	
1,2,4-Trimethylbenzene	95-63-6	2.00	< 2.00	
1,2-Dibromo-3-chloropropane	96-12-8	5.00	< 5.00	
1,2-Dibromoethane	106-93-4	2.00	< 2.00	
1,2-Dichlorobenzene	95-50-1	2.00	< 2.00	
1,2-Dichloroethane	107-06-2	2.00	< 2.00	
1,2-Dichloropropane	78-87-5	2.00	< 2.00	
1,3,5-Trimethylbenzene	108-67-8	2.00	< 2.00	
1,3-Dichlorobenzene	541-73-1	2.00	< 2.00	
1,3-Dichloropropane	142-28-9	2.00	< 2.00	
1,4-Dichlorobenzene	106-46-7	2.00	< 2.00	
1,4-Dioxane	123-91-1	50.0	< 50.0	
2,2-Dichloropropane	594-20-7	2.00	< 2.00	
2-Butanone	78-93-3	10.0	< 10.0	
2-Chloroethyl vinyl ether	110-75-8	5.00	< 5.00	
2-Chlorotoluene	95-49-8	2.00	< 2.00	
2-Hexanone	591-78-6	5.00	< 5.00	
2-Nitropropane	79-46-9	5.00	< 5.00	
4-Chlorotoluene	106-43-4	2.00	< 2.00	

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Jose Rocha
QA Officer

Lab Sample ID: 1303706-011A
Client Sample ID: 50' From 0396 / 4920505

Analyzed: 3/27/2013 2311h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8260C

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
4-Isopropyltoluene	99-87-6	2.00	< 2.00	
4-Methyl-2-pentanone	108-10-1	5.00	< 5.00	
Acetone	67-64-1	10.0	< 10.0	
Acetonitrile	75-05-8	5.00	< 5.00	
Acrolein	107-02-8	5.00	< 5.00	
Acrylonitrile	107-13-1	10.0	< 10.0	
Allyl chloride	107-05-1	5.00	< 5.00	
Benzene	71-43-2	2.00	< 2.00	
Benzyl chloride	100-44-7	5.00	< 5.00	
Bis(2-chloroisopropyl) ether	108-60-1	5.00	< 5.00	
Bromobenzene	108-86-1	2.00	< 2.00	
Bromochloromethane	74-97-5	2.00	< 2.00	
Bromodichloromethane	75-27-4	2.00	< 2.00	
Bromoform	75-25-2	2.00	< 2.00	
Bromomethane	74-83-9	5.00	< 5.00	
Butyl acetate	123-86-4	10.0	< 10.0	
Carbon disulfide	75-15-0	2.00	< 2.00	
Carbon tetrachloride	56-23-5	2.00	< 2.00	
Chlorobenzene	108-90-7	2.00	< 2.00	
Chloroethane	75-00-3	2.00	< 2.00	
Chloroform	67-66-3	2.00	< 2.00	
Chloromethane	74-87-3	3.00	< 3.00	
Chloroprene	126-99-8	2.00	< 2.00	
cis-1,2-Dichloroethene	156-59-2	2.00	< 2.00	
cis-1,3-Dichloropropene	10061-01-5	2.00	< 2.00	
Cyclohexane	110-82-7	2.00	< 2.00	
Cyclohexanone	108-94-1	50.0	< 50.0	
Dibromochloromethane	124-48-1	2.00	< 2.00	
Dibromomethane	74-95-3	2.00	< 2.00	
Dichlorodifluoromethane	75-71-8	2.00	< 2.00	
Ethyl acetate	141-78-6	10.0	< 10.0	
Ethyl ether	60-29-7	10.0	< 10.0	
Ethyl methacrylate	97-63-2	2.00	< 2.00	
Ethylbenzene	100-41-4	2.00	< 2.00	
Hexachlorobutadiene	87-68-3	2.00	< 2.00	
Iodomethane	74-88-4	5.00	< 5.00	
Isobutyl alcohol	78-83-1	100	< 100	

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Laboratory Director

Jose Rocha
QA Officer

Lab Sample ID: 1303706-011A
Client Sample ID: 50' From 0396 / 4920505

Analyzed: 3/27/2013 2311h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8260C

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Isopropyl acetate	108-21-4	10.0	< 10.0	
Isopropyl alcohol	67-63-0	40.0	< 40.0	
Isopropylbenzene	98-82-8	2.00	< 2.00	
m,p-Xylene	179601-23-1	2.00	< 2.00	
Methacrylonitrile	126-98-7	5.00	< 5.00	
Methyl Acetate	79-20-9	5.00	< 5.00	
Methyl methacrylate	80-62-6	5.00	< 5.00	
Methyl tert-butyl ether	1634-04-4	2.00	< 2.00	
Methylcyclohexane	108-87-2	2.00	< 2.00	
Methylene chloride	75-09-2	2.00	< 2.00	
n-Amyl acetate	628-63-7	10.0	< 10.0	
n-Butyl alcohol	71-36-3	100	< 100	
n-Butylbenzene	104-51-8	2.00	< 2.00	
n-Hexane	110-54-3	2.00	< 2.00	
n-Octane	111-65-9	2.00	< 2.00	
n-Propylbenzene	103-65-1	2.00	< 2.00	
Naphthalene	91-20-3	2.00	< 2.00	
o-Xylene	95-47-6	2.00	< 2.00	
Pentachloroethane	76-01-7	5.00	< 5.00	
Propionitrile	107-12-0	25.0	< 25.0	
Propyl acetate	109-60-4	10.0	< 10.0	
sec-Butylbenzene	135-98-8	2.00	< 2.00	
Styrene	100-42-5	2.00	< 2.00	
tert-Butyl alcohol	76-65-0	20.0	< 20.0	
tert-Butylbenzene	98-06-6	2.00	< 2.00	
Tetrachloroethene	127-18-4	2.00	< 2.00	
Tetrahydrofuran	109-99-9	2.00	< 2.00	
Toluene	108-88-3	2.00	< 2.00	
trans-1,2-Dichloroethene	156-60-5	2.00	< 2.00	
trans-1,3-Dichloropropene	10061-02-6	2.00	< 2.00	
trans-1,4-Dichloro-2-butene	110-57-6	2.00	< 2.00	
Trichloroethene	79-01-6	2.00	< 2.00	
Trichlorofluoromethane	75-69-4	2.00	< 2.00	
Vinyl acetate	108-05-4	10.0	< 10.0	
Vinyl chloride	75-01-4	1.00	< 1.00	
Xylenes, Total	1330-20-7	2.00	< 2.00	

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Lab Sample ID: 1303706-011A
Client Sample ID: 50' From 0396 / 4920505

Analyzed: 3/27/2013 2311h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8260C

Compound	CAS Number	Reporting Limit	Analytical Result	Qual

Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	58.1	50.00	116	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	53.3	50.00	107	80-128	
Surr: Dibromofluoromethane	1868-53-7	54.2	50.00	108	80-124	
Surr: Toluene-d8	2037-26-5	50.2	50.00	100	77-129	

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

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ORGANIC ANALYTICAL REPORT

Client: Utah Division of Water Quality **Contact:** Chris Bittner
Project: MP 44.9
Lab Sample ID: 1303706-012A
Client Sample ID: Trip Blank
Collection Date: 3/27/2013
Received Date: 3/27/2013 1554h

Analytical Results VOAs Full List by GC/MS Method 8260C/5030C

Analyzed: 3/27/2013 2330h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8260C

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QA Officer

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
1,1,1,2-Tetrachloroethane	630-20-6	2.00	< 2.00	
1,1,1-Trichloroethane	71-55-6	2.00	< 2.00	
1,1,2,2-Tetrachloroethane	79-34-5	2.00	< 2.00	
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	2.00	< 2.00	
1,1,2-Trichloroethane	79-00-5	2.00	< 2.00	
1,1-Dichloropropene	563-58-6	2.00	< 2.00	
1,1-Dichloroethane	75-34-3	2.00	< 2.00	
1,1-Dichloroethene	75-35-4	2.00	< 2.00	
1,2,3-Trichlorobenzene	87-61-6	2.00	< 2.00	
1,2,3-Trichloropropane	96-18-4	2.00	< 2.00	
1,2,3-Trimethylbenzene	526-73-8	2.00	< 2.00	
1,2,4-Trichlorobenzene	120-82-1	2.00	< 2.00	
1,2,4-Trimethylbenzene	95-63-6	2.00	< 2.00	
1,2-Dibromo-3-chloropropane	96-12-8	5.00	< 5.00	
1,2-Dibromoethane	106-93-4	2.00	< 2.00	
1,2-Dichlorobenzene	95-50-1	2.00	< 2.00	
1,2-Dichloroethane	107-06-2	2.00	< 2.00	
1,2-Dichloropropane	78-87-5	2.00	< 2.00	
1,3,5-Trimethylbenzene	108-67-8	2.00	< 2.00	
1,3-Dichlorobenzene	541-73-1	2.00	< 2.00	
1,3-Dichloropropane	142-28-9	2.00	< 2.00	
1,4-Dichlorobenzene	106-46-7	2.00	< 2.00	
1,4-Dioxane	123-91-1	50.0	< 50.0	
2,2-Dichloropropane	594-20-7	2.00	< 2.00	
2-Butanone	78-93-3	10.0	< 10.0	
2-Chloroethyl vinyl ether	110-75-8	5.00	< 5.00	
2-Chlorotoluene	95-49-8	2.00	< 2.00	
2-Hexanone	591-78-6	5.00	< 5.00	
2-Nitropropane	79-46-9	5.00	< 5.00	
4-Chlorotoluene	106-43-4	2.00	< 2.00	

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

Lab Sample ID: 1303706-012A
Client Sample ID: Trip Blank

Analyzed: 3/27/2013 2330h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8260C

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
4-Isopropyltoluene	99-87-6	2.00	< 2.00	
4-Methyl-2-pentanone	108-10-1	5.00	< 5.00	
Acetone	67-64-1	10.0	< 10.0	
Acetonitrile	75-05-8	5.00	< 5.00	
Acrolein	107-02-8	5.00	< 5.00	
Acrylonitrile	107-13-1	10.0	< 10.0	
Allyl chloride	107-05-1	5.00	< 5.00	
Benzene	71-43-2	2.00	< 2.00	
Benzyl chloride	100-44-7	5.00	< 5.00	
Bis(2-chloroisopropyl) ether	108-60-1	5.00	< 5.00	
Bromobenzene	108-86-1	2.00	< 2.00	
Bromochloromethane	74-97-5	2.00	< 2.00	
Bromodichloromethane	75-27-4	2.00	< 2.00	
Bromoform	75-25-2	2.00	< 2.00	
Bromomethane	74-83-9	5.00	< 5.00	
Butyl acetate	123-86-4	10.0	< 10.0	
Carbon disulfide	75-15-0	2.00	< 2.00	
Carbon tetrachloride	56-23-5	2.00	< 2.00	
Chlorobenzene	108-90-7	2.00	< 2.00	
Chloroethane	75-00-3	2.00	< 2.00	
Chloroform	67-66-3	2.00	< 2.00	
Chloromethane	74-87-3	3.00	< 3.00	
Chloroprene	126-99-8	2.00	< 2.00	
cis-1,2-Dichloroethene	156-59-2	2.00	< 2.00	
cis-1,3-Dichloropropene	10061-01-5	2.00	< 2.00	
Cyclohexane	110-82-7	2.00	< 2.00	
Cyclohexanone	108-94-1	50.0	< 50.0	
Dibromochloromethane	124-48-1	2.00	< 2.00	
Dibromomethane	74-95-3	2.00	< 2.00	
Dichlorodifluoromethane	75-71-8	2.00	< 2.00	
Ethyl acetate	141-78-6	10.0	< 10.0	
Ethyl ether	60-29-7	10.0	< 10.0	
Ethyl methacrylate	97-63-2	2.00	< 2.00	
Ethylbenzene	100-41-4	2.00	< 2.00	
Hexachlorobutadiene	87-68-3	2.00	< 2.00	
Iodomethane	74-88-4	5.00	< 5.00	
Isobutyl alcohol	78-83-1	100	< 100	

All analyses applicable to the CWA, SDWA, and RCRA are performed in accordance to NELAC protocols. Pertinent sampling information is located on the attached COC. This report is provided for the exclusive use of the addressee. Privileges of subsequent use of the name of this company or any member of its staff, or reproduction of this report in connection with the advertisement, promotion or sale of any product or process, or in connection with the re-publication of this report for any purpose other than for the addressee will be granted only on contact. This company accepts no responsibility except for the due performance of inspection and/or analysis in good faith and according to the rules of the trade and of science.

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

Lab Sample ID: 1303706-012A
Client Sample ID: Trip Blank

Analyzed: 3/27/2013 2330h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8260C

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Isopropyl acetate	108-21-4	10.0	< 10.0	
Isopropyl alcohol	67-63-0	40.0	< 40.0	
Isopropylbenzene	98-82-8	2.00	< 2.00	
m,p-Xylene	179601-23-1	2.00	< 2.00	
Methacrylonitrile	126-98-7	5.00	< 5.00	
Methyl Acetate	79-20-9	5.00	< 5.00	
Methyl methacrylate	80-62-6	5.00	< 5.00	
Methyl tert-butyl ether	1634-04-4	2.00	< 2.00	
Methylcyclohexane	108-87-2	2.00	< 2.00	
Methylene chloride	75-09-2	2.00	< 2.00	
n-Amyl acetate	628-63-7	10.0	< 10.0	
n-Butyl alcohol	71-36-3	100	< 100	
n-Butylbenzene	104-51-8	2.00	< 2.00	
n-Hexane	110-54-3	2.00	< 2.00	
n-Octane	111-65-9	2.00	< 2.00	
n-Propylbenzene	103-65-1	2.00	< 2.00	
Naphthalene	91-20-3	2.00	< 2.00	
o-Xylene	95-47-6	2.00	< 2.00	
Pentachloroethane	76-01-7	5.00	< 5.00	
Propionitrile	107-12-0	25.0	< 25.0	
Propyl acetate	109-60-4	10.0	< 10.0	
sec-Butylbenzene	135-98-8	2.00	< 2.00	
Styrene	100-42-5	2.00	< 2.00	
tert-Butyl alcohol	76-65-0	20.0	< 20.0	
tert-Butylbenzene	98-06-6	2.00	< 2.00	
Tetrachloroethene	127-18-4	2.00	< 2.00	
Tetrahydrofuran	109-99-9	2.00	< 2.00	
Toluene	108-88-3	2.00	< 2.00	
trans-1,2-Dichloroethene	156-60-5	2.00	< 2.00	
trans-1,3-Dichloropropene	10061-02-6	2.00	< 2.00	
trans-1,4-Dichloro-2-butene	110-57-6	2.00	< 2.00	
Trichloroethene	79-01-6	2.00	< 2.00	
Trichlorofluoromethane	75-69-4	2.00	< 2.00	
Vinyl acetate	108-05-4	10.0	< 10.0	
Vinyl chloride	75-01-4	1.00	< 1.00	
Xylenes, Total	1330-20-7	2.00	< 2.00	

All analyses applicable to the CWA, SDWA, and RCRA are performed in accordance to NELAC protocols. Pertinent sampling information is located on the attached COC. This report is provided for the exclusive use of the addressee. Privileges of subsequent use of the name of this company or any member of its staff, or reproduction of this report in connection with the advertisement, promotion or sale of any product or process, or in connection with the re-publication of this report for any purpose other than for the addressee will be granted only on contact. This company accepts no responsibility except for the due performance of inspection and/or analysis in good faith and according to the rules of the trade and of science.

Lab Sample ID: 1303706-012A
Client Sample ID: Trip Blank

Analyzed: 3/27/2013 2330h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8260C

Compound	CAS Number	Reporting Limit	Analytical Result	Qual

Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	58.8	50.00	118	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	53.4	50.00	107	80-128	
Surr: Dibromofluoromethane	1868-53-7	54.1	50.00	108	80-124	
Surr: Toluene-d8	2037-26-5	50.1	50.00	100	77-129	

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

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ORGANIC ANALYTICAL REPORT

Client: Utah Division of Water Quality **Contact:** Chris Bittner
Project: MP 44.9
Lab Sample ID: 1303706-013A
Client Sample ID: Field Blank
Collection Date: 3/27/2013 1330h
Received Date: 3/27/2013 1554h

Analytical Results VOAs Full List by GC/MS Method 8260C/5030C

Analyzed: 3/27/2013 2349h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8260C

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Jose Rocha
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Compound	CAS Number	Reporting Limit	Analytical Result	Qual
1,1,1,2-Tetrachloroethane	630-20-6	2.00	< 2.00	
1,1,1-Trichloroethane	71-55-6	2.00	< 2.00	
1,1,2,2-Tetrachloroethane	79-34-5	2.00	< 2.00	
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	2.00	< 2.00	
1,1,2-Trichloroethane	79-00-5	2.00	< 2.00	
1,1-Dichloropropene	563-58-6	2.00	< 2.00	
1,1-Dichloroethane	75-34-3	2.00	< 2.00	
1,1-Dichloroethene	75-35-4	2.00	< 2.00	
1,2,3-Trichlorobenzene	87-61-6	2.00	< 2.00	
1,2,3-Trichloropropane	96-18-4	2.00	< 2.00	
1,2,3-Trimethylbenzene	526-73-8	2.00	< 2.00	
1,2,4-Trichlorobenzene	120-82-1	2.00	< 2.00	
1,2,4-Trimethylbenzene	95-63-6	2.00	< 2.00	
1,2-Dibromo-3-chloropropane	96-12-8	5.00	< 5.00	
1,2-Dibromoethane	106-93-4	2.00	< 2.00	
1,2-Dichlorobenzene	95-50-1	2.00	< 2.00	
1,2-Dichloroethane	107-06-2	2.00	< 2.00	
1,2-Dichloropropane	78-87-5	2.00	< 2.00	
1,3,5-Trimethylbenzene	108-67-8	2.00	< 2.00	
1,3-Dichlorobenzene	541-73-1	2.00	< 2.00	
1,3-Dichloropropane	142-28-9	2.00	< 2.00	
1,4-Dichlorobenzene	106-46-7	2.00	< 2.00	
1,4-Dioxane	123-91-1	50.0	< 50.0	
2,2-Dichloropropane	594-20-7	2.00	< 2.00	
2-Butanone	78-93-3	10.0	< 10.0	
2-Chloroethyl vinyl ether	110-75-8	5.00	< 5.00	
2-Chlorotoluene	95-49-8	2.00	< 2.00	
2-Hexanone	591-78-6	5.00	< 5.00	
2-Nitropropane	79-46-9	5.00	< 5.00	
4-Chlorotoluene	106-43-4	2.00	< 2.00	

All analyses applicable to the CWA, SDWA, and RCRA are performed in accordance to NELAC protocols. Pertinent sampling information is located on the attached COC. This report is provided for the exclusive use of the addressee. Privileges of subsequent use of the name of this company or any member of its staff, or reproduction of this report in connection with the advertisement, promotion or sale of any product or process, or in connection with the re-publication of this report for any purpose other than for the addressee will be granted only on contact. This company accepts no responsibility except for the due performance of inspection and/or analysis in good faith and according to the rules of the trade and of science.

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Kyle F. Gross
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Jose Rocha
QA Officer

Lab Sample ID: 1303706-013A
Client Sample ID: Field Blank

Analyzed: 3/27/2013 2349h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8260C

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
4-Isopropyltoluene	99-87-6	2.00	< 2.00	
4-Methyl-2-pentanone	108-10-1	5.00	< 5.00	
Acetone	67-64-1	10.0	< 10.0	
Acetonitrile	75-05-8	5.00	< 5.00	
Acrolein	107-02-8	5.00	< 5.00	
Acrylonitrile	107-13-1	10.0	< 10.0	
Allyl chloride	107-05-1	5.00	< 5.00	
Benzene	71-43-2	2.00	< 2.00	
Benzyl chloride	100-44-7	5.00	< 5.00	
Bis(2-chloroisopropyl) ether	108-60-1	5.00	< 5.00	
Bromobenzene	108-86-1	2.00	< 2.00	
Bromochloromethane	74-97-5	2.00	< 2.00	
Bromodichloromethane	75-27-4	2.00	< 2.00	
Bromoform	75-25-2	2.00	< 2.00	
Bromomethane	74-83-9	5.00	< 5.00	
Butyl acetate	123-86-4	10.0	< 10.0	
Carbon disulfide	75-15-0	2.00	< 2.00	
Carbon tetrachloride	56-23-5	2.00	< 2.00	
Chlorobenzene	108-90-7	2.00	< 2.00	
Chloroethane	75-00-3	2.00	< 2.00	
Chloroform	67-66-3	2.00	< 2.00	
Chloromethane	74-87-3	3.00	< 3.00	
Chloroprene	126-99-8	2.00	< 2.00	
cis-1,2-Dichloroethene	156-59-2	2.00	< 2.00	
cis-1,3-Dichloropropene	10061-01-5	2.00	< 2.00	
Cyclohexane	110-82-7	2.00	< 2.00	
Cyclohexanone	108-94-1	50.0	< 50.0	
Dibromochloromethane	124-48-1	2.00	< 2.00	
Dibromomethane	74-95-3	2.00	< 2.00	
Dichlorodifluoromethane	75-71-8	2.00	< 2.00	
Ethyl acetate	141-78-6	10.0	< 10.0	
Ethyl ether	60-29-7	10.0	< 10.0	
Ethyl methacrylate	97-63-2	2.00	< 2.00	
Ethylbenzene	100-41-4	2.00	< 2.00	
Hexachlorobutadiene	87-68-3	2.00	< 2.00	
Iodomethane	74-88-4	5.00	< 5.00	
Isobutyl alcohol	78-83-1	100	< 100	

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

Lab Sample ID: 1303706-013A
Client Sample ID: Field Blank

Analyzed: 3/27/2013 2349h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8260C

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Isopropyl acetate	108-21-4	10.0	< 10.0	
Isopropyl alcohol	67-63-0	40.0	< 40.0	
Isopropylbenzene	98-82-8	2.00	< 2.00	
m,p-Xylene	179601-23-1	2.00	< 2.00	
Methacrylonitrile	126-98-7	5.00	< 5.00	
Methyl Acetate	79-20-9	5.00	< 5.00	
Methyl methacrylate	80-62-6	5.00	< 5.00	
Methyl tert-butyl ether	1634-04-4	2.00	< 2.00	
Methylcyclohexane	108-87-2	2.00	< 2.00	
Methylene chloride	75-09-2	2.00	< 2.00	
n-Amyl acetate	628-63-7	10.0	< 10.0	
n-Butyl alcohol	71-36-3	100	< 100	
n-Butylbenzene	104-51-8	2.00	< 2.00	
n-Hexane	110-54-3	2.00	< 2.00	
n-Octane	111-65-9	2.00	< 2.00	
n-Propylbenzene	103-65-1	2.00	< 2.00	
Naphthalene	91-20-3	2.00	< 2.00	
o-Xylene	95-47-6	2.00	< 2.00	
Pentachloroethane	76-01-7	5.00	< 5.00	
Propionitrile	107-12-0	25.0	< 25.0	
Propyl acetate	109-60-4	10.0	< 10.0	
sec-Butylbenzene	135-98-8	2.00	< 2.00	
Styrene	100-42-5	2.00	< 2.00	
tert-Butyl alcohol	76-65-0	20.0	< 20.0	
tert-Butylbenzene	98-06-6	2.00	< 2.00	
Tetrachloroethene	127-18-4	2.00	< 2.00	
Tetrahydrofuran	109-99-9	2.00	< 2.00	
Toluene	108-88-3	2.00	< 2.00	
trans-1,2-Dichloroethene	156-60-5	2.00	< 2.00	
trans-1,3-Dichloropropene	10061-02-6	2.00	< 2.00	
trans-1,4-Dichloro-2-butene	110-57-6	2.00	< 2.00	
Trichloroethene	79-01-6	2.00	< 2.00	
Trichlorofluoromethane	75-69-4	2.00	< 2.00	
Vinyl acetate	108-05-4	10.0	< 10.0	
Vinyl chloride	75-01-4	1.00	< 1.00	
Xylenes, Total	1330-20-7	2.00	< 2.00	

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Lab Sample ID: 1303706-013A
Client Sample ID: Field Blank

Analyzed: 3/27/2013 2349h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8260C

Compound	CAS Number	Reporting Limit	Analytical Result	Qual

Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	59.0	50.00	118	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	54.2	50.00	108	80-128	
Surr: Dibromofluoromethane	1868-53-7	54.3	50.00	109	80-124	
Surr: Toluene-d8	2037-26-5	49.7	50.00	99.5	77-129	

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

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ORGANIC ANALYTICAL REPORT

Client: Utah Division of Water Quality **Contact:** Chris Bittner
Project: MP 44.9
Lab Sample ID: 1303706-014A
Client Sample ID: East of Boom / 4920395
Collection Date: 3/27/2013 1345h
Received Date: 3/27/2013 1554h

Analytical Results VOAs Full List by GC/MS Method 8260C/5030C

Analyzed: 3/28/2013 008h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8260C

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Compound	CAS Number	Reporting Limit	Analytical Result	Qual
1,1,1,2-Tetrachloroethane	630-20-6	2.00	< 2.00	
1,1,1-Trichloroethane	71-55-6	2.00	< 2.00	
1,1,2,2-Tetrachloroethane	79-34-5	2.00	< 2.00	
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	2.00	< 2.00	
1,1,2-Trichloroethane	79-00-5	2.00	< 2.00	
1,1-Dichloropropene	563-58-6	2.00	< 2.00	
1,1-Dichloroethane	75-34-3	2.00	< 2.00	
1,1-Dichloroethene	75-35-4	2.00	< 2.00	
1,2,3-Trichlorobenzene	87-61-6	2.00	< 2.00	
1,2,3-Trichloropropane	96-18-4	2.00	< 2.00	
1,2,3-Trimethylbenzene	526-73-8	2.00	**2.23**	
1,2,4-Trichlorobenzene	120-82-1	2.00	< 2.00	
1,2,4-Trimethylbenzene	95-63-6	2.00	**3.03**	
1,2-Dibromo-3-chloropropane	96-12-8	5.00	< 5.00	
1,2-Dibromoethane	106-93-4	2.00	< 2.00	
1,2-Dichlorobenzene	95-50-1	2.00	< 2.00	
1,2-Dichloroethane	107-06-2	2.00	< 2.00	
1,2-Dichloropropane	78-87-5	2.00	< 2.00	
1,3,5-Trimethylbenzene	108-67-8	2.00	< 2.00	
1,3-Dichlorobenzene	541-73-1	2.00	< 2.00	
1,3-Dichloropropane	142-28-9	2.00	< 2.00	
1,4-Dichlorobenzene	106-46-7	2.00	< 2.00	
1,4-Dioxane	123-91-1	50.0	< 50.0	
2,2-Dichloropropane	594-20-7	2.00	< 2.00	
2-Butanone	78-93-3	10.0	< 10.0	
2-Chloroethyl vinyl ether	110-75-8	5.00	< 5.00	
2-Chlorotoluene	95-49-8	2.00	< 2.00	
2-Hexanone	591-78-6	5.00	< 5.00	
2-Nitropropane	79-46-9	5.00	< 5.00	
4-Chlorotoluene	106-43-4	2.00	< 2.00	

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

Lab Sample ID: 1303706-014A
Client Sample ID: East of Boom / 4920395

Analyzed: 3/28/2013 008h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8260C

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
4-Isopropyltoluene	99-87-6	2.00	< 2.00	
4-Methyl-2-pentanone	108-10-1	5.00	< 5.00	
Acetone	67-64-1	10.0	< 10.0	
Acetonitrile	75-05-8	5.00	< 5.00	
Acrolein	107-02-8	5.00	< 5.00	
Acrylonitrile	107-13-1	10.0	< 10.0	
Allyl chloride	107-05-1	5.00	< 5.00	
Benzene	71-43-2	2.00	< 2.00	
Benzyl chloride	100-44-7	5.00	< 5.00	
Bis(2-chloroisopropyl) ether	108-60-1	5.00	< 5.00	
Bromobenzene	108-86-1	2.00	< 2.00	
Bromochloromethane	74-97-5	2.00	< 2.00	
Bromodichloromethane	75-27-4	2.00	< 2.00	
Bromoform	75-25-2	2.00	< 2.00	
Bromomethane	74-83-9	5.00	< 5.00	
Butyl acetate	123-86-4	10.0	< 10.0	
Carbon disulfide	75-15-0	2.00	< 2.00	
Carbon tetrachloride	56-23-5	2.00	< 2.00	
Chlorobenzene	108-90-7	2.00	< 2.00	
Chloroethane	75-00-3	2.00	< 2.00	
Chloroform	67-66-3	2.00	< 2.00	
Chloromethane	74-87-3	3.00	< 3.00	
Chloroprene	126-99-8	2.00	< 2.00	
cis-1,2-Dichloroethene	156-59-2	2.00	< 2.00	
cis-1,3-Dichloropropene	10061-01-5	2.00	< 2.00	
Cyclohexane	110-82-7	2.00	< 2.00	
Cyclohexanone	108-94-1	50.0	< 50.0	
Dibromochloromethane	124-48-1	2.00	< 2.00	
Dibromomethane	74-95-3	2.00	< 2.00	
Dichlorodifluoromethane	75-71-8	2.00	< 2.00	
Ethyl acetate	141-78-6	10.0	< 10.0	
Ethyl ether	60-29-7	10.0	< 10.0	
Ethyl methacrylate	97-63-2	2.00	< 2.00	
Ethylbenzene	100-41-4	2.00	< 2.00	
Hexachlorobutadiene	87-68-3	2.00	< 2.00	
Iodomethane	74-88-4	5.00	< 5.00	
Isobutyl alcohol	78-83-1	100	< 100	

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Jose Rocha
QA Officer

Lab Sample ID: 1303706-014A
Client Sample ID: East of Boom / 4920395

Analyzed: 3/28/2013 008h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8260C

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Isopropyl acetate	108-21-4	10.0	< 10.0	
Isopropyl alcohol	67-63-0	40.0	< 40.0	
Isopropylbenzene	98-82-8	2.00	< 2.00	
m,p-Xylene	179601-23-1	2.00	< 2.00	
Methacrylonitrile	126-98-7	5.00	< 5.00	
Methyl Acetate	79-20-9	5.00	< 5.00	
Methyl methacrylate	80-62-6	5.00	< 5.00	
Methyl tert-butyl ether	1634-04-4	2.00	< 2.00	
Methylcyclohexane	108-87-2	2.00	< 2.00	
Methylene chloride	75-09-2	2.00	< 2.00	
n-Amyl acetate	628-63-7	10.0	< 10.0	
n-Butyl alcohol	71-36-3	100	< 100	
n-Butylbenzene	104-51-8	2.00	< 2.00	
n-Hexane	110-54-3	2.00	< 2.00	
n-Octane	111-65-9	2.00	< 2.00	
n-Propylbenzene	103-65-1	2.00	< 2.00	
Naphthalene	91-20-3	2.00	< 2.00	
o-Xylene	95-47-6	2.00	< 2.00	
Pentachloroethane	76-01-7	5.00	< 5.00	
Propionitrile	107-12-0	25.0	< 25.0	
Propyl acetate	109-60-4	10.0	< 10.0	
sec-Butylbenzene	135-98-8	2.00	< 2.00	
Styrene	100-42-5	2.00	< 2.00	
tert-Butyl alcohol	76-65-0	20.0	< 20.0	
tert-Butylbenzene	98-06-6	2.00	< 2.00	
Tetrachloroethene	127-18-4	2.00	< 2.00	
Tetrahydrofuran	109-99-9	2.00	< 2.00	
Toluene	108-88-3	2.00	< 2.00	
trans-1,2-Dichloroethene	156-60-5	2.00	< 2.00	
trans-1,3-Dichloropropene	10061-02-6	2.00	< 2.00	
trans-1,4-Dichloro-2-butene	110-57-6	2.00	< 2.00	
Trichloroethene	79-01-6	2.00	< 2.00	
Trichlorofluoromethane	75-69-4	2.00	< 2.00	
Vinyl acetate	108-05-4	10.0	< 10.0	
Vinyl chloride	75-01-4	1.00	< 1.00	
Xylenes, Total	1330-20-7	2.00	< 2.00	

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Lab Sample ID: 1303706-014A
Client Sample ID: East of Boom / 4920395

Analyzed: 3/28/2013 008h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8260C

Compound	CAS Number	Reporting Limit	Analytical Result	Qual

Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	58.6	50.00	117	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	49.5	50.00	99.0	80-128	
Surr: Dibromofluoromethane	1868-53-7	53.9	50.00	108	80-124	
Surr: Toluene-d8	2037-26-5	49.1	50.00	98.2	77-129	

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Jose Rocha
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ORGANIC ANALYTICAL REPORT

Client: Utah Division of Water Quality **Contact:** Chris Bittner
Project: MP 44.9
Lab Sample ID: 1303706-015A
Client Sample ID: Between Weirs / 4920394
Collection Date: 3/27/2013 1400h
Received Date: 3/27/2013 1554h

Analytical Results VOAs Full List by GC/MS Method 8260C/5030C

Analyzed: 3/28/2013 027h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8260C

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Compound	CAS Number	Reporting Limit	Analytical Result	Qual
1,1,1,2-Tetrachloroethane	630-20-6	2.00	< 2.00	
1,1,1-Trichloroethane	71-55-6	2.00	< 2.00	
1,1,2,2-Tetrachloroethane	79-34-5	2.00	< 2.00	
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	2.00	< 2.00	
1,1,2-Trichloroethane	79-00-5	2.00	< 2.00	
1,1-Dichloropropene	563-58-6	2.00	< 2.00	
1,1-Dichloroethane	75-34-3	2.00	< 2.00	
1,1-Dichloroethene	75-35-4	2.00	< 2.00	
1,2,3-Trichlorobenzene	87-61-6	2.00	< 2.00	
1,2,3-Trichloropropane	96-18-4	2.00	< 2.00	
1,2,3-Trimethylbenzene	526-73-8	2.00	**10.0**	
1,2,4-Trichlorobenzene	120-82-1	2.00	< 2.00	
1,2,4-Trimethylbenzene	95-63-6	2.00	**18.8**	
1,2-Dibromo-3-chloropropane	96-12-8	5.00	< 5.00	
1,2-Dibromoethane	106-93-4	2.00	< 2.00	
1,2-Dichlorobenzene	95-50-1	2.00	< 2.00	
1,2-Dichloroethane	107-06-2	2.00	< 2.00	
1,2-Dichloropropane	78-87-5	2.00	< 2.00	
1,3,5-Trimethylbenzene	108-67-8	2.00	< 2.00	
1,3-Dichlorobenzene	541-73-1	2.00	< 2.00	
1,3-Dichloropropane	142-28-9	2.00	< 2.00	
1,4-Dichlorobenzene	106-46-7	2.00	< 2.00	
1,4-Dioxane	123-91-1	50.0	< 50.0	
2,2-Dichloropropane	594-20-7	2.00	< 2.00	
2-Butanone	78-93-3	10.0	< 10.0	
2-Chloroethyl vinyl ether	110-75-8	5.00	< 5.00	
2-Chlorotoluene	95-49-8	2.00	< 2.00	
2-Hexanone	591-78-6	5.00	< 5.00	
2-Nitropropane	79-46-9	5.00	< 5.00	
4-Chlorotoluene	106-43-4	2.00	< 2.00	

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Jose Rocha
QA Officer

Lab Sample ID: 1303706-015A
Client Sample ID: Between Weirs / 4920394

Analyzed: 3/28/2013 027h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8260C

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
4-Isopropyltoluene	99-87-6	2.00	< 2.00	
4-Methyl-2-pentanone	108-10-1	5.00	< 5.00	
Acetone	67-64-1	10.0	**11.9**	
Acetonitrile	75-05-8	5.00	< 5.00	
Acrolein	107-02-8	5.00	< 5.00	
Acrylonitrile	107-13-1	10.0	< 10.0	
Allyl chloride	107-05-1	5.00	< 5.00	
Benzene	71-43-2	2.00	< 2.00	
Benzyl chloride	100-44-7	5.00	< 5.00	
Bis(2-chloroisopropyl) ether	108-60-1	5.00	< 5.00	
Bromobenzene	108-86-1	2.00	< 2.00	
Bromochloromethane	74-97-5	2.00	< 2.00	
Bromodichloromethane	75-27-4	2.00	< 2.00	
Bromoform	75-25-2	2.00	< 2.00	
Bromomethane	74-83-9	5.00	< 5.00	
Butyl acetate	123-86-4	10.0	< 10.0	
Carbon disulfide	75-15-0	2.00	< 2.00	
Carbon tetrachloride	56-23-5	2.00	< 2.00	
Chlorobenzene	108-90-7	2.00	< 2.00	
Chloroethane	75-00-3	2.00	< 2.00	
Chloroform	67-66-3	2.00	< 2.00	
Chloromethane	74-87-3	3.00	< 3.00	
Chloroprene	126-99-8	2.00	< 2.00	
cis-1,2-Dichloroethene	156-59-2	2.00	< 2.00	
cis-1,3-Dichloropropene	10061-01-5	2.00	< 2.00	
Cyclohexane	110-82-7	2.00	< 2.00	
Cyclohexanone	108-94-1	50.0	< 50.0	
Dibromochloromethane	124-48-1	2.00	< 2.00	
Dibromomethane	74-95-3	2.00	< 2.00	
Dichlorodifluoromethane	75-71-8	2.00	< 2.00	
Ethyl acetate	141-78-6	10.0	< 10.0	
Ethyl ether	60-29-7	10.0	< 10.0	
Ethyl methacrylate	97-63-2	2.00	< 2.00	
Ethylbenzene	100-41-4	2.00	< 2.00	
Hexachlorobutadiene	87-68-3	2.00	< 2.00	
Iodomethane	74-88-4	5.00	< 5.00	
Isobutyl alcohol	78-83-1	100	< 100	

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Jose Rocha
QA Officer

Lab Sample ID: 1303706-015A
Client Sample ID: Between Weirs / 4920394

Analyzed: 3/28/2013 027h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8260C

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Isopropyl acetate	108-21-4	10.0	< 10.0	
Isopropyl alcohol	67-63-0	40.0	< 40.0	
Isopropylbenzene	98-82-8	2.00	< 2.00	
m,p-Xylene	179601-23-1	2.00	**5.45**	
Methacrylonitrile	126-98-7	5.00	< 5.00	
Methyl Acetate	79-20-9	5.00	< 5.00	
Methyl methacrylate	80-62-6	5.00	< 5.00	
Methyl tert-butyl ether	1634-04-4	2.00	< 2.00	
Methylcyclohexane	108-87-2	2.00	< 2.00	
Methylene chloride	75-09-2	2.00	< 2.00	
n-Amyl acetate	628-63-7	10.0	< 10.0	
n-Butyl alcohol	71-36-3	100	< 100	
n-Butylbenzene	104-51-8	2.00	< 2.00	
n-Hexane	110-54-3	2.00	< 2.00	
n-Octane	111-65-9	2.00	< 2.00	
n-Propylbenzene	103-65-1	2.00	< 2.00	
Naphthalene	91-20-3	2.00	**6.36**	
o-Xylene	95-47-6	2.00	< 2.00	
Pentachloroethane	76-01-7	5.00	< 5.00	
Propionitrile	107-12-0	25.0	< 25.0	
Propyl acetate	109-60-4	10.0	< 10.0	
sec-Butylbenzene	135-98-8	2.00	< 2.00	
Styrene	100-42-5	2.00	< 2.00	
tert-Butyl alcohol	76-65-0	20.0	< 20.0	
tert-Butylbenzene	98-06-6	2.00	< 2.00	
Tetrachloroethene	127-18-4	2.00	< 2.00	
Tetrahydrofuran	109-99-9	2.00	< 2.00	
Toluene	108-88-3	2.00	< 2.00	
trans-1,2-Dichloroethene	156-60-5	2.00	< 2.00	
trans-1,3-Dichloropropene	10061-02-6	2.00	< 2.00	
trans-1,4-Dichloro-2-butene	110-57-6	2.00	< 2.00	
Trichloroethene	79-01-6	2.00	< 2.00	
Trichlorofluoromethane	75-69-4	2.00	< 2.00	
Vinyl acetate	108-05-4	10.0	< 10.0	
Vinyl chloride	75-01-4	1.00	< 1.00	
Xylenes, Total	1330-20-7	2.00	**7.44**	

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Lab Sample ID: 1303706-015A
Client Sample ID: Between Weirs / 4920394

Analyzed: 3/28/2013 027h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8260C

Compound	CAS Number	Reporting Limit	Analytical Result	Qual

Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	55.7	50.00	111	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	48.6	50.00	97.1	80-128	
Surr: Dibromofluoromethane	1868-53-7	52.8	50.00	106	80-124	
Surr: Toluene-d8	2037-26-5	48.9	50.00	97.9	77-129	

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

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ORGANIC ANALYTICAL REPORT

Client: Utah Division of Water Quality **Contact:** Chris Bittner
Project: MP 44.9
Lab Sample ID: 1303706-016A
Client Sample ID: Between Weirs Dup / 4920394
Collection Date: 3/27/2013 1410h
Received Date: 3/27/2013 1554h

Analytical Results VOAs Full List by GC/MS Method 8260C/5030C

Analyzed: 3/28/2013 046h
Units: µg/L **Dilution Factor:** 5 **Method:** SW8260C

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Jose Rocha
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Compound	CAS Number	Reporting Limit	Analytical Result	Qual
1,1,1,2-Tetrachloroethane	630-20-6	10.0	< 10.0	
1,1,1-Trichloroethane	71-55-6	10.0	< 10.0	
1,1,2,2-Tetrachloroethane	79-34-5	10.0	< 10.0	
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	10.0	< 10.0	
1,1,2-Trichloroethane	79-00-5	10.0	< 10.0	
1,1-Dichloropropene	563-58-6	10.0	< 10.0	
1,1-Dichloroethane	75-34-3	10.0	< 10.0	
1,1-Dichloroethene	75-35-4	10.0	< 10.0	
1,2,3-Trichlorobenzene	87-61-6	10.0	< 10.0	
1,2,3-Trichloropropane	96-18-4	10.0	< 10.0	
1,2,3-Trimethylbenzene	526-73-8	10.0	< 10.0	
1,2,4-Trichlorobenzene	120-82-1	10.0	< 10.0	
1,2,4-Trimethylbenzene	95-63-6	10.0	**14.8**	
1,2-Dibromo-3-chloropropane	96-12-8	25.0	< 25.0	
1,2-Dibromoethane	106-93-4	10.0	< 10.0	
1,2-Dichlorobenzene	95-50-1	10.0	< 10.0	
1,2-Dichloroethane	107-06-2	10.0	< 10.0	
1,2-Dichloropropane	78-87-5	10.0	< 10.0	
1,3,5-Trimethylbenzene	108-67-8	10.0	< 10.0	
1,3-Dichlorobenzene	541-73-1	10.0	< 10.0	
1,3-Dichloropropane	142-28-9	10.0	< 10.0	
1,4-Dichlorobenzene	106-46-7	10.0	< 10.0	
1,4-Dioxane	123-91-1	250	< 250	
2,2-Dichloropropane	594-20-7	10.0	< 10.0	
2-Butanone	78-93-3	50.0	< 50.0	
2-Chloroethyl vinyl ether	110-75-8	25.0	< 25.0	
2-Chlorotoluene	95-49-8	10.0	< 10.0	
2-Hexanone	591-78-6	25.0	< 25.0	
2-Nitropropane	79-46-9	25.0	< 25.0	
4-Chlorotoluene	106-43-4	10.0	< 10.0	

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Jose Rocha
QA Officer

Lab Sample ID: 1303706-016A
Client Sample ID: Between Weirs Dup / 4920394

Analyzed: 3/28/2013 046h
Units: µg/L **Dilution Factor:** 5 **Method:** SW8260C

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
4-Isopropyltoluene	99-87-6	10.0	< 10.0	
4-Methyl-2-pentanone	108-10-1	25.0	< 25.0	
Acetone	67-64-1	50.0	< 50.0	
Acetonitrile	75-05-8	25.0	< 25.0	
Acrolein	107-02-8	25.0	< 25.0	
Acrylonitrile	107-13-1	50.0	< 50.0	
Allyl chloride	107-05-1	25.0	< 25.0	
Benzene	71-43-2	10.0	< 10.0	
Benzyl chloride	100-44-7	25.0	< 25.0	
Bis(2-chloroisopropyl) ether	108-60-1	25.0	< 25.0	
Bromobenzene	108-86-1	10.0	< 10.0	
Bromochloromethane	74-97-5	10.0	< 10.0	
Bromodichloromethane	75-27-4	10.0	< 10.0	
Bromoform	75-25-2	10.0	< 10.0	
Bromomethane	74-83-9	25.0	< 25.0	
Butyl acetate	123-86-4	50.0	< 50.0	
Carbon disulfide	75-15-0	10.0	< 10.0	
Carbon tetrachloride	56-23-5	10.0	< 10.0	
Chlorobenzene	108-90-7	10.0	< 10.0	
Chloroethane	75-00-3	10.0	< 10.0	
Chloroform	67-66-3	10.0	< 10.0	
Chloromethane	74-87-3	15.0	< 15.0	
Chloroprene	126-99-8	10.0	< 10.0	
cis-1,2-Dichloroethene	156-59-2	10.0	< 10.0	
cis-1,3-Dichloropropene	10061-01-5	10.0	< 10.0	
Cyclohexane	110-82-7	10.0	< 10.0	
Cyclohexanone	108-94-1	250	< 250	
Dibromochloromethane	124-48-1	10.0	< 10.0	
Dibromomethane	74-95-3	10.0	< 10.0	
Dichlorodifluoromethane	75-71-8	10.0	< 10.0	
Ethyl acetate	141-78-6	50.0	< 50.0	
Ethyl ether	60-29-7	50.0	< 50.0	
Ethyl methacrylate	97-63-2	10.0	< 10.0	
Ethylbenzene	100-41-4	10.0	< 10.0	
Hexachlorobutadiene	87-68-3	10.0	< 10.0	
Iodomethane	74-88-4	25.0	< 25.0	
Isobutyl alcohol	78-83-1	500	< 500	

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Jose Rocha
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Lab Sample ID: 1303706-016A
Client Sample ID: Between Weirs Dup / 4920394

Analyzed: 3/28/2013 046h
Units: µg/L **Dilution Factor:** 5 **Method:** SW8260C

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Isopropyl acetate	108-21-4	50.0	< 50.0	
Isopropyl alcohol	67-63-0	200	< 200	
Isopropylbenzene	98-82-8	10.0	< 10.0	
m,p-Xylene	179601-23-1	10.0	< 10.0	
Methacrylonitrile	126-98-7	25.0	< 25.0	
Methyl Acetate	79-20-9	25.0	< 25.0	
Methyl methacrylate	80-62-6	25.0	< 25.0	
Methyl tert-butyl ether	1634-04-4	10.0	< 10.0	
Methylcyclohexane	108-87-2	10.0	< 10.0	
Methylene chloride	75-09-2	10.0	< 10.0	
n-Amyl acetate	628-63-7	50.0	< 50.0	
n-Butyl alcohol	71-36-3	500	< 500	
n-Butylbenzene	104-51-8	10.0	< 10.0	
n-Hexane	110-54-3	10.0	< 10.0	
n-Octane	111-65-9	10.0	< 10.0	
n-Propylbenzene	103-65-1	10.0	< 10.0	
Naphthalene	91-20-3	10.0	< 10.0	
o-Xylene	95-47-6	10.0	< 10.0	
Pentachloroethane	76-01-7	25.0	< 25.0	
Propionitrile	107-12-0	125	< 125	
Propyl acetate	109-60-4	50.0	< 50.0	
sec-Butylbenzene	135-98-8	10.0	< 10.0	
Styrene	100-42-5	10.0	< 10.0	
tert-Butyl alcohol	76-65-0	100	< 100	
tert-Butylbenzene	98-06-6	10.0	< 10.0	
Tetrachloroethene	127-18-4	10.0	< 10.0	
Tetrahydrofuran	109-99-9	10.0	< 10.0	
Toluene	108-88-3	10.0	< 10.0	
trans-1,2-Dichloroethene	156-60-5	10.0	< 10.0	
trans-1,3-Dichloropropene	10061-02-6	10.0	< 10.0	
trans-1,4-Dichloro-2-butene	110-57-6	10.0	< 10.0	
Trichloroethene	79-01-6	10.0	< 10.0	
Trichlorofluoromethane	75-69-4	10.0	< 10.0	
Vinyl acetate	108-05-4	50.0	< 50.0	
Vinyl chloride	75-01-4	5.00	< 5.00	
Xylenes, Total	1330-20-7	10.0	< 10.0	

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Lab Sample ID: 1303706-016A

Client Sample ID: Between Weirs Dup / 4920394

Analyzed: 3/28/2013 046h

Units: µg/L **Dilution Factor:** 5 **Method:** SW8260C

Compound	CAS Number	Reporting Limit	Analytical Result	Qual

Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	249	250.0	99.5	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	257	250.0	103	80-128	
Surr: Dibromofluoromethane	1868-53-7	250	250.0	100	80-124	
Surr: Toluene-d8	2037-26-5	254	250.0	102	77-129	

The reporting limits were raised due to sample matrix interferences. Sample contained oil.

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Jose Rocha
QA Officer

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Jose Rocha
QA Officer

QC SUMMARY REPORT

Client: Utah Division of Water Quality
Lab Set ID: 1303706
Project: MP 44.9

Contact: Chris Bittner
Dept: GC
QC Type: LCS

Sample ID	Analyte	Units	Method	Result	Amount Spiked	Original Amount	%REC	Limits	%RPD	RPD Limit	Qual	Date Analyzed
LCS-24424	Diesel Range Organics (DRO) (C10-C28)	mg/L	SW8015D	1.63	2.000	0	81.7	48-118				3/28/2013 1730h
LCS-24424	Surr: 4-Bromofluorobenzene	%REC	SW8015D	0.265	0.4000		66.3	18-95				3/28/2013 1730h

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Jose Rocha
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QC SUMMARY REPORT

Client: Utah Division of Water Quality
Lab Set ID: 1303706
Project: MP 44.9

Contact: Chris Bittner
Dept: GC
QC Type: MBLK

Sample ID	Analyte	Units	Method	Result	Amount Spiked	Original Amount	%REC	Limits	%RPD	RPD Limit	Qual	Date Analyzed
MB-24424	Diesel Range Organics (DRO) (C10-C28)	mg/L	SW8015D	< 0.500				-				3/28/2013 745h
MB-24424	Surr: 4-Bromofluorobenzene	%REC	SW8015D	0.103	0.4000		25.7	18-95				3/28/2013 745h

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Jose Rocha
QA Officer

QC SUMMARY REPORT

Client: Utah Division of Water Quality
Lab Set ID: 1303706
Project: MP 44.9

Contact: Chris Bittner
Dept: GC
QC Type: MS

Sample ID	Analyte	Units	Method	Result	Amount Spiked	Original Amount	%REC	Limits	%RPD	RPD Limit	Qual	Date Analyzed
1303706-001CMS	Diesel Range Organics (DRO) (C10-C28)	mg/L	SW8015D	1.48	2.222	0	66.5	60-161				3/28/2013 843h
1303706-001CMS	Surr: 4-Bromofluorobenzene	%REC	SW8015D	0.191	0.4444		42.9	10-190				3/28/2013 843h

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Jose Rocha
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QC SUMMARY REPORT

Client: Utah Division of Water Quality
Lab Set ID: 1303706
Project: MP 44.9

Contact: Chris Bittner
Dept: GC
QC Type: MSD

Sample ID	Analyte	Units	Method	Result	Amount Spiked	Original Amount	%REC	Limits	%RPD	RPD Limit	Qual	Date Analyzed
1303706-001CMSD	Diesel Range Organics (DRO) (C10-C28)	mg/L	SW8015D	1.35	2.222	0	60.6	60-161	9.21	25		3/28/2013 903h
1303706-001CMSD	Surr: 4-Bromofluorobenzene	%REC	SW8015D	0.160	0.4444		36.0	10-190				3/28/2013 903h

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QC SUMMARY REPORT

Client: Utah Division of Water Quality
Lab Set ID: 1303706
Project: MP 44.9

Contact: Chris Bittner
Dept: MSSV
QC Type: LCS

Sample ID	Analyte	Units	Method	Result	Amount Spiked	Original Amount	%REC	Limits	%RPD	RPD Limit	Qual	Date Analyzed
LCS-24430	1,2,4-Trichlorobenzene	µg/L	SW8270D	36.3	80.00	0	45.4	10-104				3/29/2013 931h
LCS-24430	1,4-Dichlorobenzene	µg/L	SW8270D	24.3	80.00	0	30.4	10-118				3/29/2013 931h
LCS-24430	2,4,6-Trichlorophenol	µg/L	SW8270D	64.4	80.00	0	80.5	17-119				3/29/2013 931h
LCS-24430	2,4-Dimethylphenol	µg/L	SW8270D	52.5	80.00	0	65.7	10-131				3/29/2013 931h
LCS-24430	2,4-Dinitrotoluene	µg/L	SW8270D	84.8	80.00	0	106	42-219				3/29/2013 931h
LCS-24430	2-Chloronaphthalene	µg/L	SW8270D	57.9	80.00	0	72.3	23-126				3/29/2013 931h
LCS-24430	2-Chlorophenol	µg/L	SW8270D	45.4	80.00	0	56.7	15-128				3/29/2013 931h
LCS-24430	4,6-Dinitro-2-methylphenol	µg/L	SW8270D	75.8	80.00	0	94.8	30-198				3/29/2013 931h
LCS-24430	4-Chloro-3-methylphenol	µg/L	SW8270D	65.0	80.00	0	81.2	29-148				3/29/2013 931h
LCS-24430	4-Nitrophenol	µg/L	SW8270D	32.6	80.00	0	40.8	10-157				3/29/2013 931h
LCS-24430	Acenaphthene	µg/L	SW8270D	62.6	80.00	0	78.2	20-116				3/29/2013 931h
LCS-24430	Benzo(a)pyrene	µg/L	SW8270D	85.8	80.00	0	107	10-221				3/29/2013 931h
LCS-24430	N-Nitrosodi-n-propylamine	µg/L	SW8270D	44.4	80.00	0	55.5	20-148				3/29/2013 931h
LCS-24430	Pentachlorophenol	µg/L	SW8270D	76.0	80.00	0	94.9	21-153				3/29/2013 931h
LCS-24430	Phenol	µg/L	SW8270D	24.3	80.00	0	30.4	10-131				3/29/2013 931h
LCS-24430	Pyrene	µg/L	SW8270D	83.3	80.00	0	104	37-150				3/29/2013 931h
LCS-24430	Surr: 2,4,6-Tribromophenol	%REC	SW8270D	83.5	80.00		104	10-165				3/29/2013 931h
LCS-24430	Surr: 2-Fluorobiphenyl	%REC	SW8270D	25.6	40.00		63.9	10-118				3/29/2013 931h
LCS-24430	Surr: 2-Fluorophenol	%REC	SW8270D	28.9	80.00		36.2	10-121				3/29/2013 931h
LCS-24430	Surr: Nitrobenzene-d5	%REC	SW8270D	20.0	40.00		49.9	10-127				3/29/2013 931h
LCS-24430	Surr: Phenol-d6	%REC	SW8270D	23.8	80.00		29.7	10-124				3/29/2013 931h
LCS-24430	Surr: Terphenyl-d14	%REC	SW8270D	41.2	40.00		103	51-221				3/29/2013 931h
LCS-24430	Acenaphthene	µg/L	SW8270D	72.8	80.00	0	91.0	23-159				4/1/2013 1154h
LCS-24430	Benzo(a)pyrene	µg/L	SW8270D	84.8	80.00	0	106	26-223				4/1/2013 1154h
LCS-24430	Pyrene	µg/L	SW8270D	83.6	80.00	0	104	28-204				4/1/2013 1154h

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

QC SUMMARY REPORT

Client: Utah Division of Water Quality
Lab Set ID: 1303706
Project: MP 44.9

Contact: Chris Bittner
Dept: MSSV
QC Type: MBLK

Sample ID	Analyte	Units	Method	Result	Amount Spiked	Original Amount	%REC	Limits	%RPD	RPD Limit	Qual	Date Analyzed
MB-24430	1,1´-Biphenyl	µg/L	SW8270D	< 10.0				-				3/29/2013 904h
MB-24430	1,2,4,5-Tetrachlorobenzene	µg/L	SW8270D	< 10.0				-				3/29/2013 904h
MB-24430	1,2,4-Trichlorobenzene	µg/L	SW8270D	< 10.0				-				3/29/2013 904h
MB-24430	1,2-Dichlorobenzene	µg/L	SW8270D	< 10.0				-				3/29/2013 904h
MB-24430	1,3,5-Trinitrobenzene	µg/L	SW8270D	< 10.0				-				3/29/2013 904h
MB-24430	1,3-Dichlorobenzene	µg/L	SW8270D	< 10.0				-				3/29/2013 904h
MB-24430	1,3-Dinitrobenzene	µg/L	SW8270D	< 10.0				-				3/29/2013 904h
MB-24430	1,4-Dichlorobenzene	µg/L	SW8270D	< 10.0				-				3/29/2013 904h
MB-24430	1,4-Dinitrobenzene	µg/L	SW8270D	< 10.0				-				3/29/2013 904h
MB-24430	1,4-Naphthoquinone	µg/L	SW8270D	< 10.0				-				3/29/2013 904h
MB-24430	1,4-Phenylenediamine	µg/L	SW8270D	< 10.0				-				3/29/2013 904h
MB-24430	1-Chloronaphthalene	µg/L	SW8270D	< 10.0				-				3/29/2013 904h
MB-24430	1-Methylnaphthalene	µg/L	SW8270D	< 10.0				-				3/29/2013 904h
MB-24430	1-Naphthylamine	µg/L	SW8270D	< 10.0				-				3/29/2013 904h
MB-24430	2,3,4,6-Tetrachlorophenol	µg/L	SW8270D	< 10.0				-				3/29/2013 904h
MB-24430	2,4,5-Trichlorophenol	µg/L	SW8270D	< 10.0				-				3/29/2013 904h
MB-24430	2,4,6-Trichlorophenol	µg/L	SW8270D	< 10.0				-				3/29/2013 904h
MB-24430	2,4-Dichlorophenol	µg/L	SW8270D	< 10.0				-				3/29/2013 904h
MB-24430	2,4-Dimethylphenol	µg/L	SW8270D	< 10.0				-				3/29/2013 904h
MB-24430	2,4-Dinitrophenol	µg/L	SW8270D	< 10.0				-				3/29/2013 904h
MB-24430	2,4-Dinitrotoluene	µg/L	SW8270D	< 10.0				-				3/29/2013 904h
MB-24430	2,6-Dichlorophenol	µg/L	SW8270D	< 10.0				-				3/29/2013 904h
MB-24430	2,6-Dinitrotoluene	µg/L	SW8270D	< 10.0				-				3/29/2013 904h
MB-24430	2-Acetylaminofluorene	µg/L	SW8270D	< 10.0				-				3/29/2013 904h
MB-24430	2-Chloronaphthalene	µg/L	SW8270D	< 10.0				-				3/29/2013 904h
MB-24430	2-Chlorophenol	µg/L	SW8270D	< 10.0				-				3/29/2013 904h
MB-24430	2-Methylnaphthalene	µg/L	SW8270D	< 10.0				-				3/29/2013 904h

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

QC SUMMARY REPORT

Client: Utah Division of Water Quality
Lab Set ID: 1303706
Project: MP 44.9

Contact: Chris Bittner
Dept: MSSV
QC Type: MBLK

Sample ID	Analyte	Units	Method	Result	Amount Spiked	Original Amount	%REC	Limits	%RPD	RPD Limit	Qual	Date Analyzed
MB-24430	2-Methylphenol	µg/L	SW8270D	< 10.0				-				3/29/2013 904h
MB-24430	2-Naphthylamine	µg/L	SW8270D	< 10.0				-				3/29/2013 904h
MB-24430	2-Nitroaniline	µg/L	SW8270D	< 10.0				-				3/29/2013 904h
MB-24430	2-Nitrophenol	µg/L	SW8270D	< 10.0				-				3/29/2013 904h
MB-24430	2-Picoline	µg/L	SW8270D	< 10.0				-				3/29/2013 904h
MB-24430	3&4-Methylphenol	µg/L	SW8270D	< 10.0				-				3/29/2013 904h
MB-24430	3,3´-Dichlorobenzidine	µg/L	SW8270D	< 10.0				-				3/29/2013 904h
MB-24430	3,3´-Dimethylbenzidine	µg/L	SW8270D	< 10.0				-				3/29/2013 904h
MB-24430	3-Methylcholanthrene	µg/L	SW8270D	< 10.0				-				3/29/2013 904h
MB-24430	3-Nitroaniline	µg/L	SW8270D	< 10.0				-				3/29/2013 904h
MB-24430	4,6-Dinitro-2-methylphenol	µg/L	SW8270D	< 10.0				-				3/29/2013 904h
MB-24430	4-Aminobiphenyl	µg/L	SW8270D	< 10.0				-				3/29/2013 904h
MB-24430	4-Bromophenyl phenyl ether	µg/L	SW8270D	< 10.0				-				3/29/2013 904h
MB-24430	4-Chloro-3-methylphenol	µg/L	SW8270D	< 10.0				-				3/29/2013 904h
MB-24430	4-Chloroaniline	µg/L	SW8270D	< 10.0				-				3/29/2013 904h
MB-24430	4-Chlorophenyl phenyl ether	µg/L	SW8270D	< 10.0				-				3/29/2013 904h
MB-24430	4-Nitroaniline	µg/L	SW8270D	< 10.0				-				3/29/2013 904h
MB-24430	4-Nitrophenol	µg/L	SW8270D	< 10.0				-				3/29/2013 904h
MB-24430	5-Nitro-o-toluidine	µg/L	SW8270D	< 10.0				-				3/29/2013 904h
MB-24430	7,12-Dimethylbenz(a)anthracene	µg/L	SW8270D	< 10.0				-				3/29/2013 904h
MB-24430	a,a-Dimethylphenethylamine	µg/L	SW8270D	< 10.0				-				3/29/2013 904h
MB-24430	Acenaphthene	µg/L	SW8270D	< 10.0				-				3/29/2013 904h
MB-24430	Acenaphthylene	µg/L	SW8270D	< 10.0				-				3/29/2013 904h
MB-24430	Acetophenone	µg/L	SW8270D	< 10.0				-				3/29/2013 904h
MB-24430	alpha-Terpineol	µg/L	SW8270D	< 10.0				-				3/29/2013 904h
MB-24430	Aniline	µg/L	SW8270D	< 10.0				-				3/29/2013 904h
MB-24430	Anthracene	µg/L	SW8270D	< 10.0				-				3/29/2013 904h

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

QC SUMMARY REPORT

Client: Utah Division of Water Quality
Lab Set ID: 1303706
Project: MP 44.9

Contact: Chris Bittner
Dept: MSSV
QC Type: MBLK

Sample ID	Analyte	Units	Method	Result	Amount Spiked	Original Amount	%REC	Limits	%RPD	RPD Limit	Qual	Date Analyzed
MB-24430	Aramite	µg/L	SW8270D	< 10.0				-				3/29/2013 904h
MB-24430	Atrazine	µg/L	SW8270D	< 10.0				-				3/29/2013 904h
MB-24430	Azobenzene	µg/L	SW8270D	< 10.0				-				3/29/2013 904h
MB-24430	Benz(a)anthracene	µg/L	SW8270D	< 10.0				-				3/29/2013 904h
MB-24430	Benzaldehyde	µg/L	SW8270D	< 10.0				-				3/29/2013 904h
MB-24430	Benzidine	µg/L	SW8270D	< 10.0				-				3/29/2013 904h
MB-24430	Benzo(a)pyrene	µg/L	SW8270D	< 10.0				-				3/29/2013 904h
MB-24430	Benzo(b)fluoranthene	µg/L	SW8270D	< 10.0				-				3/29/2013 904h
MB-24430	Benzo(g,h,i)perylene	µg/L	SW8270D	< 10.0				-				3/29/2013 904h
MB-24430	Benzo(k)fluoranthene	µg/L	SW8270D	< 10.0				-				3/29/2013 904h
MB-24430	Benzoic acid	µg/L	SW8270D	< 20.0				-				3/29/2013 904h
MB-24430	Benzyl alcohol	µg/L	SW8270D	< 10.0				-				3/29/2013 904h
MB-24430	Bis(2-chloroethoxy)methane	µg/L	SW8270D	< 10.0				-				3/29/2013 904h
MB-24430	Bis(2-chloroethyl) ether	µg/L	SW8270D	< 10.0				-				3/29/2013 904h
MB-24430	Bis(2-chloroisopropyl) ether	µg/L	SW8270D	< 10.0				-				3/29/2013 904h
MB-24430	Bis(2-ethylhexyl) phthalate	µg/L	SW8270D	< 10.0				-				3/29/2013 904h
MB-24430	bis(2-ethylhexyl)adipate	µg/L	SW8270D	< 10.0				-				3/29/2013 904h
MB-24430	Butyl benzyl phthalate	µg/L	SW8270D	< 10.0				-				3/29/2013 904h
MB-24430	Caprolactam	µg/L	SW8270D	< 10.0				-				3/29/2013 904h
MB-24430	Carbazole	µg/L	SW8270D	< 10.0				-				3/29/2013 904h
MB-24430	Chlorobenzilate	µg/L	SW8270D	< 10.0				-				3/29/2013 904h
MB-24430	Chrysene	µg/L	SW8270D	< 10.0				-				3/29/2013 904h
MB-24430	Diallate (cis or trans)	µg/L	SW8270D	< 10.0				-				3/29/2013 904h
MB-24430	Dibenz(a,h)anthracene	µg/L	SW8270D	< 10.0				-				3/29/2013 904h
MB-24430	Dibenzofuran	µg/L	SW8270D	< 10.0				-				3/29/2013 904h
MB-24430	Diethyl phthalate	µg/L	SW8270D	< 10.0				-				3/29/2013 904h
MB-24430	Dimethoate	µg/L	SW8270D	< 10.0				-				3/29/2013 904h

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

QC SUMMARY REPORT

Client: Utah Division of Water Quality
Lab Set ID: 1303706
Project: MP 44.9

Contact: Chris Bittner
Dept: MSSV
QC Type: MBLK

Sample ID	Analyte	Units	Method	Result	Amount Spiked	Original Amount	%REC	Limits	%RPD	RPD Limit	Qual	Date Analyzed
MB-24430	Dimethyl phthalate	µg/L	SW8270D	< 10.0				-				3/29/2013 904h
MB-24430	Dimethylaminoazobenzene	µg/L	SW8270D	< 10.0				-				3/29/2013 904h
MB-24430	Di-n-butyl phthalate	µg/L	SW8270D	< 10.0				-				3/29/2013 904h
MB-24430	Di-n-octyl phthalate	µg/L	SW8270D	< 10.0				-				3/29/2013 904h
MB-24430	Dinoseb	µg/L	SW8270D	< 10.0				-				3/29/2013 904h
MB-24430	Diphenylamine	µg/L	SW8270D	< 10.0				-				3/29/2013 904h
MB-24430	Disulfoton	µg/L	SW8270D	< 10.0				-				3/29/2013 904h
MB-24430	Ethyl methanesulfonate	µg/L	SW8270D	< 10.0				-				3/29/2013 904h
MB-24430	Famphur	µg/L	SW8270D	< 10.0				-				3/29/2013 904h
MB-24430	Fluoranthene	µg/L	SW8270D	< 10.0				-				3/29/2013 904h
MB-24430	Fluorene	µg/L	SW8270D	< 10.0				-				3/29/2013 904h
MB-24430	Hexachlorobenzene	µg/L	SW8270D	< 10.0				-				3/29/2013 904h
MB-24430	Hexachlorobutadiene	µg/L	SW8270D	< 10.0				-				3/29/2013 904h
MB-24430	Hexachlorocyclopentadiene	µg/L	SW8270D	< 10.0				-				3/29/2013 904h
MB-24430	Hexachloroethane	µg/L	SW8270D	< 10.0				-				3/29/2013 904h
MB-24430	Hexachlorophene	µg/L	SW8270D	< 10.0				-				3/29/2013 904h
MB-24430	Hexachloropropene	µg/L	SW8270D	< 10.0				-				3/29/2013 904h
MB-24430	Indene	µg/L	SW8270D	< 10.0				-				3/29/2013 904h
MB-24430	Indeno(1,2,3-cd)pyrene	µg/L	SW8270D	< 10.0				-				3/29/2013 904h
MB-24430	Isodrin	µg/L	SW8270D	< 10.0				-				3/29/2013 904h
MB-24430	Isophorone	µg/L	SW8270D	< 10.0				-				3/29/2013 904h
MB-24430	Isosafrole	µg/L	SW8270D	< 10.0				-				3/29/2013 904h
MB-24430	Kepone	µg/L	SW8270D	< 10.0				-				3/29/2013 904h
MB-24430	Methapyrilene	µg/L	SW8270D	< 10.0				-				3/29/2013 904h
MB-24430	Methyl methanesulfonate	µg/L	SW8270D	< 10.0				-				3/29/2013 904h
MB-24430	Naphthalene	µg/L	SW8270D	< 10.0				-				3/29/2013 904h
MB-24430	n-Decane	µg/L	SW8270D	< 10.0				-				3/29/2013 904h

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Jose Rocha
QA Officer

QC SUMMARY REPORT

Client: Utah Division of Water Quality
Lab Set ID: 1303706
Project: MP 44.9

Contact: Chris Bittner
Dept: MSSV
QC Type: MBLK

Sample ID	Analyte	Units	Method	Result	Amount Spiked	Original Amount	%REC	Limits	%RPD	RPD Limit	Qual	Date Analyzed
MB-24430	Nitrobenzene	µg/L	SW8270D	< 10.0				-				3/29/2013 904h
MB-24430	Nitroquinoline-1-oxide	µg/L	SW8270D	< 10.0				-				3/29/2013 904h
MB-24430	N-Nitrosodiethylamine	µg/L	SW8270D	< 10.0				-				3/29/2013 904h
MB-24430	N-Nitrosodimethylamine	µg/L	SW8270D	< 10.0				-				3/29/2013 904h
MB-24430	N-Nitrosodi-n-butylamine	µg/L	SW8270D	< 10.0				-				3/29/2013 904h
MB-24430	N-Nitrosodiphenylamine	µg/L	SW8270D	< 10.0				-				3/29/2013 904h
MB-24430	N-Nitrosodi-n-propylamine	µg/L	SW8270D	< 10.0				-				3/29/2013 904h
MB-24430	N-Nitrosomethylethylamine	µg/L	SW8270D	< 10.0				-				3/29/2013 904h
MB-24430	N-Nitrosomorpholine	µg/L	SW8270D	< 10.0				-				3/29/2013 904h
MB-24430	N-Nitrosopiperidine	µg/L	SW8270D	< 10.0				-				3/29/2013 904h
MB-24430	N-Nitrosopyrrolidine	µg/L	SW8270D	< 10.0				-				3/29/2013 904h
MB-24430	n-Octadecane	µg/L	SW8270D	< 10.0				-				3/29/2013 904h
MB-24430	O,O,O-Triethyl phosphorothioate	µg/L	SW8270D	< 10.0				-				3/29/2013 904h
MB-24430	o-Toluidine	µg/L	SW8270D	< 10.0				-				3/29/2013 904h
MB-24430	Parathion	µg/L	SW8270D	< 10.0				-				3/29/2013 904h
MB-24430	Methyl parathion	µg/L	SW8270D	< 10.0				-				3/29/2013 904h
MB-24430	Pentachlorobenzene	µg/L	SW8270D	< 10.0				-				3/29/2013 904h
MB-24430	Pentachloronitrobenzene	µg/L	SW8270D	< 10.0				-				3/29/2013 904h
MB-24430	Pentachlorophenol	µg/L	SW8270D	< 10.0				-				3/29/2013 904h
MB-24430	Phenacetin	µg/L	SW8270D	< 10.0				-				3/29/2013 904h
MB-24430	Phenanthrene	µg/L	SW8270D	< 10.0				-				3/29/2013 904h
MB-24430	Phenol	µg/L	SW8270D	< 10.0				-				3/29/2013 904h
MB-24430	Phorate	µg/L	SW8270D	< 10.0				-				3/29/2013 904h
MB-24430	Pronamide	µg/L	SW8270D	< 10.0				-				3/29/2013 904h
MB-24430	Pyrene	µg/L	SW8270D	< 10.0				-				3/29/2013 904h
MB-24430	Pyridine	µg/L	SW8270D	< 10.0				-				3/29/2013 904h
MB-24430	Quinoline	µg/L	SW8270D	< 10.0				-				3/29/2013 904h

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

QC SUMMARY REPORT

Client: Utah Division of Water Quality
Lab Set ID: 1303706
Project: MP 44.9

Contact: Chris Bittner
Dept: MSSV
QC Type: MBLK

Sample ID	Analyte	Units	Method	Result	Amount Spiked	Original Amount	%REC	Limits	%RPD	RPD Limit	Qual	Date Analyzed
MB-24430	Safrole	µg/L	SW8270D	< 10.0				-				3/29/2013 904h
MB-24430	Tetraethyl dithiopyrophosphate	µg/L	SW8270D	< 10.0				-				3/29/2013 904h
MB-24430	Thionazin	µg/L	SW8270D	< 10.0				-				3/29/2013 904h
MB-24430	Surr: 2,4,6-Tribromophenol	%REC	SW8270D	45.7	80.00		57.1	10-165				3/29/2013 904h
MB-24430	Surr: 2-Fluorobiphenyl	%REC	SW8270D	14.1	40.00		35.2	10-118				3/29/2013 904h
MB-24430	Surr: 2-Fluorophenol	%REC	SW8270D	18.6	80.00		23.2	10-121				3/29/2013 904h
MB-24430	Surr: Nitrobenzene-d5	%REC	SW8270D	12.7	40.00		31.7	10-127				3/29/2013 904h
MB-24430	Surr: Phenol-d6	%REC	SW8270D	12.8	80.00		16.0	10-124				3/29/2013 904h
MB-24430	Surr: Terphenyl-d14	%REC	SW8270D	38.8	40.00		97.0	51-221				3/29/2013 904h
MB-24430	1-Methylnaphthalene	µg/L	SW8270D	< 0.100				-				4/1/2013 1127h
MB-24430	2-Methylnaphthalene	µg/L	SW8270D	< 0.100				-				4/1/2013 1127h
MB-24430	Acenaphthene	µg/L	SW8270D	< 0.100				-				4/1/2013 1127h
MB-24430	Acenaphthylene	µg/L	SW8270D	< 0.100				-				4/1/2013 1127h
MB-24430	Anthracene	µg/L	SW8270D	< 0.100				-				4/1/2013 1127h
MB-24430	Benz(a)anthracene	µg/L	SW8270D	< 0.100				-				4/1/2013 1127h
MB-24430	Benzo(a)pyrene	µg/L	SW8270D	< 0.100				-				4/1/2013 1127h
MB-24430	Benzo(b)fluoranthene	µg/L	SW8270D	< 0.100				-				4/1/2013 1127h
MB-24430	Benzo(g,h,i)perylene	µg/L	SW8270D	< 0.100				-				4/1/2013 1127h
MB-24430	Benzo(k)fluoranthene	µg/L	SW8270D	< 0.100				-				4/1/2013 1127h
MB-24430	Chrysene	µg/L	SW8270D	< 0.100				-				4/1/2013 1127h
MB-24430	Dibenz(a,h)anthracene	µg/L	SW8270D	< 0.100				-				4/1/2013 1127h
MB-24430	Fluoranthene	µg/L	SW8270D	< 0.100				-				4/1/2013 1127h
MB-24430	Fluorene	µg/L	SW8270D	< 0.100				-				4/1/2013 1127h
MB-24430	Hexachlorobenzene	µg/L	SW8270D	< 1.00				-				4/1/2013 1127h
MB-24430	Indene	µg/L	SW8270D	< 0.100				-				4/1/2013 1127h
MB-24430	Indeno(1,2,3-cd)pyrene	µg/L	SW8270D	< 0.100				-				4/1/2013 1127h
MB-24430	Naphthalene	µg/L	SW8270D	< 0.100				-				4/1/2013 1127h

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

QC SUMMARY REPORT

Client: Utah Division of Water Quality
Lab Set ID: 1303706
Project: MP 44.9

Contact: Chris Bittner
Dept: MSSV
QC Type: MBLK

Sample ID	Analyte	Units	Method	Result	Amount Spiked	Original Amount	%REC	Limits	%RPD	RPD Limit	Qual	Date Analyzed
MB-24430	Phenanthrene	µg/L	SW8270D	< 0.100				-				4/1/2013 1127h
MB-24430	Pyrene	µg/L	SW8270D	< 0.100				-				4/1/2013 1127h

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

QC SUMMARY REPORT

Client: Utah Division of Water Quality
Lab Set ID: 1303706
Project: MP 44.9

Contact: Chris Bittner
Dept: MSSV
QC Type: MS

Sample ID	Analyte	Units	Method	Result	Amount Spiked	Original Amount	%REC	Limits	%RPD	RPD Limit	Qual	Date Analyzed
1303706-004BMS	1,2,4-Trichlorobenzene	µg/L	SW8270D	24.5	80.00	0	30.7	20-107				3/29/2013 1423h
1303706-004BMS	1,4-Dichlorobenzene	µg/L	SW8270D	13.5	80.00	0	16.9	11-90				3/29/2013 1423h
1303706-004BMS	2,4,6-Trichlorophenol	µg/L	SW8270D	63.3	80.00	0	79.1	10-223				3/29/2013 1423h
1303706-004BMS	2,4-Dimethylphenol	µg/L	SW8270D	54.5	80.00	0	68.2	10-176				3/29/2013 1423h
1303706-004BMS	2,4-Dinitrotoluene	µg/L	SW8270D	78.5	80.00	0	98.2	21-191				3/29/2013 1423h
1303706-004BMS	2-Chloronaphthalene	µg/L	SW8270D	51.0	80.00	0	63.8	12-132				3/29/2013 1423h
1303706-004BMS	2-Chlorophenol	µg/L	SW8270D	46.6	80.00	0	58.3	20-107				3/29/2013 1423h
1303706-004BMS	4,6-Dinitro-2-methylphenol	µg/L	SW8270D	83.0	80.00	0	104	20-250				3/29/2013 1423h
1303706-004BMS	4-Chloro-3-methylphenol	µg/L	SW8270D	63.6	80.00	0	79.4	10-136				3/29/2013 1423h
1303706-004BMS	4-Nitrophenol	µg/L	SW8270D	31.0	80.00	0	38.8	10-135				3/29/2013 1423h
1303706-004BMS	Acenaphthene	µg/L	SW8270D	55.0	80.00	0	68.7	21-113				3/29/2013 1423h
1303706-004BMS	Benzo(a)pyrene	µg/L	SW8270D	75.7	80.00	0	94.6	15-169				3/29/2013 1423h
1303706-004BMS	N-Nitrosodi-n-propylamine	µg/L	SW8270D	41.6	80.00	0	52.0	10-133				3/29/2013 1423h
1303706-004BMS	Pentachlorophenol	µg/L	SW8270D	48.7	80.00	0	60.9	10-131				3/29/2013 1423h
1303706-004BMS	Phenol	µg/L	SW8270D	26.4	80.00	0	33.0	10-71				3/29/2013 1423h
1303706-004BMS	Pyrene	µg/L	SW8270D	88.0	80.00	0	110	23-150				3/29/2013 1423h
1303706-004BMS	Surr: 2,4,6-Tribromophenol	%REC	SW8270D	75.8	80.00		94.8	14-159				3/29/2013 1423h
1303706-004BMS	Surr: 2-Fluorobiphenyl	%REC	SW8270D	23.3	40.00		58.3	10-124				3/29/2013 1423h
1303706-004BMS	Surr: 2-Fluorophenol	%REC	SW8270D	27.9	80.00		34.8	10-106				3/29/2013 1423h
1303706-004BMS	Surr: Nitrobenzene-d5	%REC	SW8270D	18.1	40.00		45.3	10-180				3/29/2013 1423h
1303706-004BMS	Surr: Phenol-d6	%REC	SW8270D	25.8	80.00		32.3	10-122				3/29/2013 1423h
1303706-004BMS	Surr: Terphenyl-d14	%REC	SW8270D	43.0	40.00		108	10-199				3/29/2013 1423h
1303706-004BMS	Acenaphthene	µg/L	SW8270D	58.4	80.00	0	73.0	21-113				4/1/2013 1408h
1303706-004BMS	Benzo(a)pyrene	µg/L	SW8270D	78.6	80.00	0	98.3	15-169				4/1/2013 1408h
1303706-004BMS	Pyrene	µg/L	SW8270D	77.4	80.00	0	96.8	23-150				4/1/2013 1408h

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

QC SUMMARY REPORT

Client: Utah Division of Water Quality
Lab Set ID: 1303706
Project: MP 44.9

Contact: Chris Bittner
Dept: MSSV
QC Type: MSD

Sample ID	Analyte	Units	Method	Result	Amount Spiked	Original Amount	%REC	Limits	%RPD	RPD Limit	Qual	Date Analyzed
1303706-004BMSD	1,2,4-Trichlorobenzene	µg/L	SW8270D	24.7	80.00	0	30.8	20-107	0.529	25		3/29/2013 1450h
1303706-004BMSD	1,4-Dichlorobenzene	µg/L	SW8270D	15.0	80.00	0	18.8	11-90	10.2	25		3/29/2013 1450h
1303706-004BMSD	2,4,6-Trichlorophenol	µg/L	SW8270D	64.4	80.00	0	80.4	10-223	1.65	25		3/29/2013 1450h
1303706-004BMSD	2,4-Dimethylphenol	µg/L	SW8270D	58.6	80.00	0	73.2	10-176	7.11	25		3/29/2013 1450h
1303706-004BMSD	2,4-Dinitrotoluene	µg/L	SW8270D	78.4	80.00	0	98.0	21-191	0.229	25		3/29/2013 1450h
1303706-004BMSD	2-Chloronaphthalene	µg/L	SW8270D	27.8	80.00	0	34.7	12-132	59	25	@	3/29/2013 1450h
1303706-004BMSD	2-Chlorophenol	µg/L	SW8270D	48.8	80.00	0	61.0	20-107	4.63	25		3/29/2013 1450h
1303706-004BMSD	4,6-Dinitro-2-methylphenol	µg/L	SW8270D	84.6	80.00	0	106	20-250	2.02	25		3/29/2013 1450h
1303706-004BMSD	4-Chloro-3-methylphenol	µg/L	SW8270D	67.8	80.00	0	84.8	10-136	6.46	25		3/29/2013 1450h
1303706-004BMSD	4-Nitrophenol	µg/L	SW8270D	31.3	80.00	0	39.1	10-135	0.802	25		3/29/2013 1450h
1303706-004BMSD	Acenaphthene	µg/L	SW8270D	56.9	80.00	0	71.2	21-113	3.52	25		3/29/2013 1450h
1303706-004BMSD	Benzo(a)pyrene	µg/L	SW8270D	76.8	80.00	0	95.9	15-169	1.4	25		3/29/2013 1450h
1303706-004BMSD	N-Nitrosodi-n-propylamine	µg/L	SW8270D	45.7	80.00	0	57.2	10-133	9.48	25		3/29/2013 1450h
1303706-004BMSD	Pentachlorophenol	µg/L	SW8270D	48.3	80.00	0	60.3	10-131	0.969	25		3/29/2013 1450h
1303706-004BMSD	Phenol	µg/L	SW8270D	27.2	80.00	0	33.9	10-71	2.76	25		3/29/2013 1450h
1303706-004BMSD	Pyrene	µg/L	SW8270D	89.6	80.00	0	112	23-150	1.81	25		3/29/2013 1450h
1303706-004BMSD	Surr: 2,4,6-Tribromophenol	%REC	SW8270D	73.0	80.00		91.2	14-159				3/29/2013 1450h
1303706-004BMSD	Surr: 2-Fluorobiphenyl	%REC	SW8270D	23.8	40.00		59.4	10-124				3/29/2013 1450h
1303706-004BMSD	Surr: 2-Fluorophenol	%REC	SW8270D	28.8	80.00		36.0	10-106				3/29/2013 1450h
1303706-004BMSD	Surr: Nitrobenzene-d5	%REC	SW8270D	19.6	40.00		49.1	10-180				3/29/2013 1450h
1303706-004BMSD	Surr: Phenol-d6	%REC	SW8270D	26.2	80.00		32.8	10-122				3/29/2013 1450h
1303706-004BMSD	Surr: Terphenyl-d14	%REC	SW8270D	43.8	40.00		109	10-199				3/29/2013 1450h
1303706-004BMSD	Acenaphthene	µg/L	SW8270D	63.8	80.00	0	79.8	21-113	8.84	25		4/1/2013 1435h
1303706-004BMSD	Benzo(a)pyrene	µg/L	SW8270D	75.6	80.00	0	94.5	15-169	3.89	25		4/1/2013 1435h
1303706-004BMSD	Pyrene	µg/L	SW8270D	75.2	80.00	0	94.0	23-150	2.88	25		4/1/2013 1435h

@ - High RPD due to suspected sample non-homogeneity or matrix interference.

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

QC SUMMARY REPORT

Client: Utah Division of Water Quality
Lab Set ID: 1303706
Project: MP 44.9

Contact: Chris Bittner
Dept: MSVOA
QC Type: LCS

Sample ID	Analyte	Units	Method	Result	Amount Spiked	Original Amount	%REC	Limits	%RPD	RPD Limit	Qual	Date Analyzed
LCS VOC 032713A	1,1,1-Trichloroethane	µg/L	SW8260C	24.1	20.00	0	121	59-156				3/27/2013 1826h
LCS VOC 032713A	1,1-Dichloroethene	µg/L	SW8260C	21.5	20.00	0	107	46-171				3/27/2013 1826h
LCS VOC 032713A	1,2-Dichlorobenzene	µg/L	SW8260C	21.9	20.00	0	109	67-135				3/27/2013 1826h
LCS VOC 032713A	1,2-Dichloroethane	µg/L	SW8260C	22.3	20.00	0	112	60-137				3/27/2013 1826h
LCS VOC 032713A	1,2-Dichloropropane	µg/L	SW8260C	20.2	20.00	0	101	59-135				3/27/2013 1826h
LCS VOC 032713A	Benzene	µg/L	SW8260C	21.0	20.00	0	105	62-127				3/27/2013 1826h
LCS VOC 032713A	Chlorobenzene	µg/L	SW8260C	21.7	20.00	0	108	63-140				3/27/2013 1826h
LCS VOC 032713A	Chloroform	µg/L	SW8260C	22.8	20.00	0	114	67-132				3/27/2013 1826h
LCS VOC 032713A	Ethylbenzene	µg/L	SW8260C	22.4	20.00	0	112	55-133				3/27/2013 1826h
LCS VOC 032713A	Isopropylbenzene	µg/L	SW8260C	23.2	20.00	0	116	60-147				3/27/2013 1826h
LCS VOC 032713A	Methyl tert-butyl ether	µg/L	SW8260C	22.1	20.00	0	110	37-189				3/27/2013 1826h
LCS VOC 032713A	Methylene chloride	µg/L	SW8260C	21.8	20.00	0	109	32-185				3/27/2013 1826h
LCS VOC 032713A	Naphthalene	µg/L	SW8260C	19.8	20.00	0	99.0	28-136				3/27/2013 1826h
LCS VOC 032713A	Tetrahydrofuran	µg/L	SW8260C	16.6	20.00	0	83.0	43-146				3/27/2013 1826h
LCS VOC 032713A	Toluene	µg/L	SW8260C	21.5	20.00	0	108	64-129				3/27/2013 1826h
LCS VOC 032713A	Trichloroethene	µg/L	SW8260C	22.7	20.00	0	114	54-152				3/27/2013 1826h
LCS VOC 032713A	Xylenes, Total	µg/L	SW8260C	67.2	60.00	0	112	52-134				3/27/2013 1826h
LCS VOC 032713A	Surr: 1,2-Dichloroethane-d4	%REC	SW8260C	53.3	50.00		107	76-138				3/27/2013 1826h
LCS VOC 032713A	Surr: 4-Bromofluorobenzene	%REC	SW8260C	49.3	50.00		98.6	77-121				3/27/2013 1826h
LCS VOC 032713A	Surr: Dibromofluoromethane	%REC	SW8260C	52.5	50.00		105	67-128				3/27/2013 1826h
LCS VOC 032713A	Surr: Toluene-d8	%REC	SW8260C	48.6	50.00		97.2	81-135				3/27/2013 1826h

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

QC SUMMARY REPORT

Client: Utah Division of Water Quality
Lab Set ID: 1303706
Project: MP 44.9

Contact: Chris Bittner
Dept: MSVOA
QC Type: MBLK

Sample ID	Analyte	Units	Method	Result	Amount Spiked	Original Amount	%REC	Limits	%RPD	RPD Limit	Qual	Date Analyzed
MB VOC 032713A	1,1,1,2-Tetrachloroethane	µg/L	SW8260C	< 2.00				-				3/27/2013 1904h
MB VOC 032713A	1,1,1-Trichloroethane	µg/L	SW8260C	< 2.00				-				3/27/2013 1904h
MB VOC 032713A	1,1,2,2-Tetrachloroethane	µg/L	SW8260C	< 2.00				-				3/27/2013 1904h
MB VOC 032713A	1,1,2-Trichloro-1,2,2-trifluoroethane	µg/L	SW8260C	< 2.00				-				3/27/2013 1904h
MB VOC 032713A	1,1,2-Trichloroethane	µg/L	SW8260C	< 2.00				-				3/27/2013 1904h
MB VOC 032713A	1,1-Dichloropropene	µg/L	SW8260C	< 2.00				-				3/27/2013 1904h
MB VOC 032713A	1,1-Dichloroethane	µg/L	SW8260C	< 2.00				-				3/27/2013 1904h
MB VOC 032713A	1,1-Dichloroethene	µg/L	SW8260C	< 2.00				-				3/27/2013 1904h
MB VOC 032713A	1,2,3-Trichlorobenzene	µg/L	SW8260C	< 2.00				-				3/27/2013 1904h
MB VOC 032713A	1,2,3-Trichloropropane	µg/L	SW8260C	< 2.00				-				3/27/2013 1904h
MB VOC 032713A	1,2,3-Trimethylbenzene	µg/L	SW8260C	< 2.00				-				3/27/2013 1904h
MB VOC 032713A	1,2,4-Trichlorobenzene	µg/L	SW8260C	< 2.00				-				3/27/2013 1904h
MB VOC 032713A	1,2,4-Trimethylbenzene	µg/L	SW8260C	< 2.00				-				3/27/2013 1904h
MB VOC 032713A	1,2-Dibromo-3-chloropropane	µg/L	SW8260C	< 5.00				-				3/27/2013 1904h
MB VOC 032713A	1,2-Dibromoethane	µg/L	SW8260C	< 2.00				-				3/27/2013 1904h
MB VOC 032713A	1,2-Dichlorobenzene	µg/L	SW8260C	< 2.00				-				3/27/2013 1904h
MB VOC 032713A	1,2-Dichloroethane	µg/L	SW8260C	< 2.00				-				3/27/2013 1904h
MB VOC 032713A	1,2-Dichloropropane	µg/L	SW8260C	< 2.00				-				3/27/2013 1904h
MB VOC 032713A	1,3,5-Trimethylbenzene	µg/L	SW8260C	< 2.00				-				3/27/2013 1904h
MB VOC 032713A	1,3-Dichlorobenzene	µg/L	SW8260C	< 2.00				-				3/27/2013 1904h
MB VOC 032713A	1,3-Dichloropropane	µg/L	SW8260C	< 2.00				-				3/27/2013 1904h
MB VOC 032713A	1,4-Dichlorobenzene	µg/L	SW8260C	< 2.00				-				3/27/2013 1904h
MB VOC 032713A	1,4-Dioxane	µg/L	SW8260C	< 50.0				-				3/27/2013 1904h
MB VOC 032713A	2,2-Dichloropropane	µg/L	SW8260C	< 2.00				-				3/27/2013 1904h
MB VOC 032713A	2-Butanone	µg/L	SW8260C	< 10.0				-				3/27/2013 1904h
MB VOC 032713A	2-Chloroethyl vinyl ether	µg/L	SW8260C	< 5.00				-				3/27/2013 1904h

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QA Officer

QC SUMMARY REPORT

Client: Utah Division of Water Quality
Lab Set ID: 1303706
Project: MP 44.9

Contact: Chris Bittner
Dept: MSVOA
QC Type: MBLK

Sample ID	Analyte	Units	Method	Result	Amount Spiked	Original Amount	%REC	Limits	%RPD	RPD Limit	Qual	Date Analyzed
MB VOC 032713A	2-Chlorotoluene	µg/L	SW8260C	< 2.00				-				3/27/2013 1904h
MB VOC 032713A	2-Hexanone	µg/L	SW8260C	< 5.00				-				3/27/2013 1904h
MB VOC 032713A	2-Nitropropane	µg/L	SW8260C	< 5.00				-				3/27/2013 1904h
MB VOC 032713A	4-Chlorotoluene	µg/L	SW8260C	< 2.00				-				3/27/2013 1904h
MB VOC 032713A	4-Isopropyltoluene	µg/L	SW8260C	< 2.00				-				3/27/2013 1904h
MB VOC 032713A	4-Methyl-2-pentanone	µg/L	SW8260C	< 5.00				-				3/27/2013 1904h
MB VOC 032713A	Acetone	µg/L	SW8260C	< 10.0				-				3/27/2013 1904h
MB VOC 032713A	Acetonitrile	µg/L	SW8260C	< 5.00				-				3/27/2013 1904h
MB VOC 032713A	Acrolein	µg/L	SW8260C	< 5.00				-				3/27/2013 1904h
MB VOC 032713A	Acrylonitrile	µg/L	SW8260C	< 10.0				-				3/27/2013 1904h
MB VOC 032713A	Allyl chloride	µg/L	SW8260C	< 5.00				-				3/27/2013 1904h
MB VOC 032713A	Benzene	µg/L	SW8260C	< 2.00				-				3/27/2013 1904h
MB VOC 032713A	Benzyl chloride	µg/L	SW8260C	< 5.00				-				3/27/2013 1904h
MB VOC 032713A	Bis(2-chloroisopropyl) ether	µg/L	SW8260C	< 5.00				-				3/27/2013 1904h
MB VOC 032713A	Bromobenzene	µg/L	SW8260C	< 2.00				-				3/27/2013 1904h
MB VOC 032713A	Bromochloromethane	µg/L	SW8260C	< 2.00				-				3/27/2013 1904h
MB VOC 032713A	Bromodichloromethane	µg/L	SW8260C	< 2.00				-				3/27/2013 1904h
MB VOC 032713A	Bromoform	µg/L	SW8260C	< 2.00				-				3/27/2013 1904h
MB VOC 032713A	Bromomethane	µg/L	SW8260C	< 5.00				-				3/27/2013 1904h
MB VOC 032713A	Butyl acetate	µg/L	SW8260C	< 10.0				-				3/27/2013 1904h
MB VOC 032713A	Carbon disulfide	µg/L	SW8260C	< 2.00				-				3/27/2013 1904h
MB VOC 032713A	Carbon tetrachloride	µg/L	SW8260C	< 2.00				-				3/27/2013 1904h
MB VOC 032713A	Chlorobenzene	µg/L	SW8260C	< 2.00				-				3/27/2013 1904h
MB VOC 032713A	Chloroethane	µg/L	SW8260C	< 2.00				-				3/27/2013 1904h
MB VOC 032713A	Chloroform	µg/L	SW8260C	< 2.00				-				3/27/2013 1904h
MB VOC 032713A	Chloromethane	µg/L	SW8260C	< 3.00				-				3/27/2013 1904h
MB VOC 032713A	Chloroprene	µg/L	SW8260C	< 2.00				-				3/27/2013 1904h

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

QC SUMMARY REPORT

Client: Utah Division of Water Quality
Lab Set ID: 1303706
Project: MP 44.9

Contact: Chris Bittner
Dept: MSVOA
QC Type: MBLK

Sample ID	Analyte	Units	Method	Result	Amount Spiked	Original Amount	%REC	Limits	%RPD	RPD Limit	Qual	Date Analyzed
MB VOC 032713A	cis-1,2-Dichloroethene	µg/L	SW8260C	< 2.00				-				3/27/2013 1904h
MB VOC 032713A	cis-1,3-Dichloropropene	µg/L	SW8260C	< 2.00				-				3/27/2013 1904h
MB VOC 032713A	Cyclohexane	µg/L	SW8260C	< 2.00				-				3/27/2013 1904h
MB VOC 032713A	Cyclohexanone	µg/L	SW8260C	< 50.0				-				3/27/2013 1904h
MB VOC 032713A	Dibromochloromethane	µg/L	SW8260C	< 2.00				-				3/27/2013 1904h
MB VOC 032713A	Dibromomethane	µg/L	SW8260C	< 2.00				-				3/27/2013 1904h
MB VOC 032713A	Dichlorodifluoromethane	µg/L	SW8260C	< 2.00				-				3/27/2013 1904h
MB VOC 032713A	Ethyl acetate	µg/L	SW8260C	< 10.0				-				3/27/2013 1904h
MB VOC 032713A	Ethyl ether	µg/L	SW8260C	< 10.0				-				3/27/2013 1904h
MB VOC 032713A	Ethyl methacrylate	µg/L	SW8260C	< 2.00				-				3/27/2013 1904h
MB VOC 032713A	Ethylbenzene	µg/L	SW8260C	< 2.00				-				3/27/2013 1904h
MB VOC 032713A	Hexachlorobutadiene	µg/L	SW8260C	< 2.00				-				3/27/2013 1904h
MB VOC 032713A	Iodomethane	µg/L	SW8260C	< 5.00				-				3/27/2013 1904h
MB VOC 032713A	Isobutyl alcohol	µg/L	SW8260C	< 100				-				3/27/2013 1904h
MB VOC 032713A	Isopropyl acetate	µg/L	SW8260C	< 10.0				-				3/27/2013 1904h
MB VOC 032713A	Isopropyl alcohol	µg/L	SW8260C	< 40.0				-				3/27/2013 1904h
MB VOC 032713A	Isopropylbenzene	µg/L	SW8260C	< 2.00				-				3/27/2013 1904h
MB VOC 032713A	m,p-Xylene	µg/L	SW8260C	< 2.00				-				3/27/2013 1904h
MB VOC 032713A	Methacrylonitrile	µg/L	SW8260C	< 5.00				-				3/27/2013 1904h
MB VOC 032713A	Methyl Acetate	µg/L	SW8260C	< 5.00				-				3/27/2013 1904h
MB VOC 032713A	Methyl methacrylate	µg/L	SW8260C	< 5.00				-				3/27/2013 1904h
MB VOC 032713A	Methyl tert-butyl ether	µg/L	SW8260C	< 2.00				-				3/27/2013 1904h
MB VOC 032713A	Methylcyclohexane	µg/L	SW8260C	< 2.00				-				3/27/2013 1904h
MB VOC 032713A	Methylene chloride	µg/L	SW8260C	< 2.00				-				3/27/2013 1904h
MB VOC 032713A	n-Amyl acetate	µg/L	SW8260C	< 10.0				-				3/27/2013 1904h
MB VOC 032713A	Naphthalene	µg/L	SW8260C	< 2.00				-				3/27/2013 1904h
MB VOC 032713A	n-Butyl alcohol	µg/L	SW8260C	< 100				-				3/27/2013 1904h

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

QC SUMMARY REPORT

Client: Utah Division of Water Quality
Lab Set ID: 1303706
Project: MP 44.9

Contact: Chris Bittner
Dept: MSVOA
QC Type: MBLK

Sample ID	Analyte	Units	Method	Result	Amount Spiked	Original Amount	%REC	Limits	%RPD	RPD Limit	Qual	Date Analyzed
MB VOC 032713A	n-Butylbenzene	µg/L	SW8260C	< 2.00				-				3/27/2013 1904h
MB VOC 032713A	n-Hexane	µg/L	SW8260C	< 2.00				-				3/27/2013 1904h
MB VOC 032713A	n-Octane	µg/L	SW8260C	< 2.00				-				3/27/2013 1904h
MB VOC 032713A	n-Propylbenzene	µg/L	SW8260C	< 2.00				-				3/27/2013 1904h
MB VOC 032713A	o-Xylene	µg/L	SW8260C	< 2.00				-				3/27/2013 1904h
MB VOC 032713A	Pentachloroethane	µg/L	SW8260C	< 5.00				-				3/27/2013 1904h
MB VOC 032713A	Propionitrile	µg/L	SW8260C	< 25.0				-				3/27/2013 1904h
MB VOC 032713A	Propyl acetate	µg/L	SW8260C	< 10.0				-				3/27/2013 1904h
MB VOC 032713A	sec-Butylbenzene	µg/L	SW8260C	< 2.00				-				3/27/2013 1904h
MB VOC 032713A	Styrene	µg/L	SW8260C	< 2.00				-				3/27/2013 1904h
MB VOC 032713A	tert-Butyl alcohol	µg/L	SW8260C	< 20.0				-				3/27/2013 1904h
MB VOC 032713A	tert-Butylbenzene	µg/L	SW8260C	< 2.00				-				3/27/2013 1904h
MB VOC 032713A	Tetrachloroethene	µg/L	SW8260C	< 2.00				-				3/27/2013 1904h
MB VOC 032713A	Tetrahydrofuran	µg/L	SW8260C	< 2.00				-				3/27/2013 1904h
MB VOC 032713A	Toluene	µg/L	SW8260C	< 2.00				-				3/27/2013 1904h
MB VOC 032713A	trans-1,2-Dichloroethene	µg/L	SW8260C	< 2.00				-				3/27/2013 1904h
MB VOC 032713A	trans-1,3-Dichloropropene	µg/L	SW8260C	< 2.00				-				3/27/2013 1904h
MB VOC 032713A	trans-1,4-Dichloro-2-butene	µg/L	SW8260C	< 2.00				-				3/27/2013 1904h
MB VOC 032713A	Trichloroethene	µg/L	SW8260C	< 2.00				-				3/27/2013 1904h
MB VOC 032713A	Trichlorofluoromethane	µg/L	SW8260C	< 2.00				-				3/27/2013 1904h
MB VOC 032713A	Vinyl acetate	µg/L	SW8260C	< 10.0				-				3/27/2013 1904h
MB VOC 032713A	Vinyl chloride	µg/L	SW8260C	< 1.00				-				3/27/2013 1904h
MB VOC 032713A	Xylenes, Total	µg/L	SW8260C	< 2.00				-				3/27/2013 1904h
MB VOC 032713A	Surr: 1,2-Dichloroethane-d4	%REC	SW8260C	57.5	50.00		115	76-138				3/27/2013 1904h
MB VOC 032713A	Surr: 4-Bromofluorobenzene	%REC	SW8260C	53.1	50.00		106	77-121				3/27/2013 1904h
MB VOC 032713A	Surr: Dibromofluoromethane	%REC	SW8260C	53.3	50.00		107	67-128				3/27/2013 1904h
MB VOC 032713A	Surr: Toluene-d8	%REC	SW8260C	49.8	50.00		99.5	81-135				3/27/2013 1904h

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

QC SUMMARY REPORT

Client: Utah Division of Water Quality
Lab Set ID: 1303706
Project: MP 44.9

Contact: Chris Bittner
Dept: MSVOA
QC Type: MS

Sample ID	Analyte	Units	Method	Result	Amount Spiked	Original Amount	%REC	Limits	%RPD	RPD Limit	Qual	Date Analyzed
1303706-001AMS	1,1,1-Trichloroethane	µg/L	SW8260C	22.5	20.00	0	112	67-147				3/27/2013 2039h
1303706-001AMS	1,1-Dichloroethene	µg/L	SW8260C	19.6	20.00	0	97.9	51-152				3/27/2013 2039h
1303706-001AMS	1,2-Dichlorobenzene	µg/L	SW8260C	18.7	20.00	0	93.5	70-130				3/27/2013 2039h
1303706-001AMS	1,2-Dichloroethane	µg/L	SW8260C	21.0	20.00	0	105	39-162				3/27/2013 2039h
1303706-001AMS	1,2-Dichloropropane	µg/L	SW8260C	17.3	20.00	0	86.5	59-135				3/27/2013 2039h
1303706-001AMS	Benzene	µg/L	SW8260C	18.5	20.00	0	92.4	66-145				3/27/2013 2039h
1303706-001AMS	Chlorobenzene	µg/L	SW8260C	18.8	20.00	0	94.0	63-140				3/27/2013 2039h
1303706-001AMS	Chloroform	µg/L	SW8260C	20.5	20.00	0	103	50-146				3/27/2013 2039h
1303706-001AMS	Ethylbenzene	µg/L	SW8260C	19.4	20.00	0	96.8	69-133				3/27/2013 2039h
1303706-001AMS	Isopropylbenzene	µg/L	SW8260C	19.9	20.00	0	99.6	60-147				3/27/2013 2039h
1303706-001AMS	Methyl tert-butyl ether	µg/L	SW8260C	21.0	20.00	0	105	37-189				3/27/2013 2039h
1303706-001AMS	Methylene chloride	µg/L	SW8260C	20.4	20.00	0	102	30-192				3/27/2013 2039h
1303706-001AMS	Naphthalene	µg/L	SW8260C	16.7	20.00	0	83.6	41-131				3/27/2013 2039h
1303706-001AMS	Tetrahydrofuran	µg/L	SW8260C	15.4	20.00	0	77.0	43-146				3/27/2013 2039h
1303706-001AMS	Toluene	µg/L	SW8260C	18.7	20.00	0	93.7	18-192				3/27/2013 2039h
1303706-001AMS	Trichloroethene	µg/L	SW8260C	19.0	20.00	0	95.1	61-153				3/27/2013 2039h
1303706-001AMS	Xylenes, Total	µg/L	SW8260C	57.9	60.00	0	96.4	42-167				3/27/2013 2039h
1303706-001AMS	Surr: 1,2-Dichloroethane-d4	%REC	SW8260C	58.8	50.00		118	72-151				3/27/2013 2039h
1303706-001AMS	Surr: 4-Bromofluorobenzene	%REC	SW8260C	49.0	50.00		98.1	80-128				3/27/2013 2039h
1303706-001AMS	Surr: Dibromofluoromethane	%REC	SW8260C	55.5	50.00		111	80-124				3/27/2013 2039h
1303706-001AMS	Surr: Toluene-d8	%REC	SW8260C	48.9	50.00		97.7	77-129				3/27/2013 2039h

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Jose Rocha
QA Officer

QC SUMMARY REPORT

Client: Utah Division of Water Quality
Lab Set ID: 1303706
Project: MP 44.9

Contact: Chris Bittner
Dept: MSVOA
QC Type: MSD

Sample ID	Analyte	Units	Method	Result	Amount Spiked	Original Amount	%REC	Limits	%RPD	RPD Limit	Qual	Date Analyzed
1303706-001AMSD	1,1,1-Trichloroethane	µg/L	SW8260C	23.0	20.00	0	115	67-147	2.5	25		3/27/2013 2058h
1303706-001AMSD	1,1-Dichloroethene	µg/L	SW8260C	19.9	20.00	0	99.6	51-152	1.72	25		3/27/2013 2058h
1303706-001AMSD	1,2-Dichlorobenzene	µg/L	SW8260C	18.9	20.00	0	94.6	70-130	1.22	25		3/27/2013 2058h
1303706-001AMSD	1,2-Dichloroethane	µg/L	SW8260C	21.3	20.00	0	107	39-162	1.7	25		3/27/2013 2058h
1303706-001AMSD	1,2-Dichloropropane	µg/L	SW8260C	17.8	20.00	0	88.8	59-135	2.63	25		3/27/2013 2058h
1303706-001AMSD	Benzene	µg/L	SW8260C	19.1	20.00	0	95.3	66-145	3.14	25		3/27/2013 2058h
1303706-001AMSD	Chlorobenzene	µg/L	SW8260C	19.5	20.00	0	97.5	63-140	3.6	25		3/27/2013 2058h
1303706-001AMSD	Chloroform	µg/L	SW8260C	20.9	20.00	0	105	50-146	1.93	25		3/27/2013 2058h
1303706-001AMSD	Ethylbenzene	µg/L	SW8260C	19.7	20.00	0	98.3	69-133	1.59	25		3/27/2013 2058h
1303706-001AMSD	Isopropylbenzene	µg/L	SW8260C	20.6	20.00	0	103	60-147	3.31	25		3/27/2013 2058h
1303706-001AMSD	Methyl tert-butyl ether	µg/L	SW8260C	20.4	20.00	0	102	37-189	2.94	25		3/27/2013 2058h
1303706-001AMSD	Methylene chloride	µg/L	SW8260C	20.8	20.00	0	104	30-192	2.38	25		3/27/2013 2058h
1303706-001AMSD	Naphthalene	µg/L	SW8260C	17.4	20.00	0	86.8	41-131	3.7	25		3/27/2013 2058h
1303706-001AMSD	Tetrahydrofuran	µg/L	SW8260C	16.2	20.00	0	81.2	43-146	5.24	25		3/27/2013 2058h
1303706-001AMSD	Toluene	µg/L	SW8260C	19.3	20.00	0	96.5	18-192	2.89	25		3/27/2013 2058h
1303706-001AMSD	Trichloroethene	µg/L	SW8260C	19.7	20.00	0	98.7	61-153	3.72	25		3/27/2013 2058h
1303706-001AMSD	Xylenes, Total	µg/L	SW8260C	59.5	60.00	0	99.2	42-167	2.79	25		3/27/2013 2058h
1303706-001AMSD	Surr: 1,2-Dichloroethane-d4	%REC	SW8260C	57.6	50.00		115	72-151				3/27/2013 2058h
1303706-001AMSD	Surr: 4-Bromofluorobenzene	%REC	SW8260C	48.6	50.00		97.1	80-128				3/27/2013 2058h
1303706-001AMSD	Surr: Dibromofluoromethane	%REC	SW8260C	54.7	50.00		109	80-124				3/27/2013 2058h
1303706-001AMSD	Surr: Toluene-d8	%REC	SW8260C	48.7	50.00		97.4	77-129				3/27/2013 2058h

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Data File C:\CHEM32\1\DATA\0327-TPH 2013-03-27 16-12-12\043F5101.D
Sample Name: 1303706-001C

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Acq. Instrument : GC C Location : Vial 43
Injection Date : 3/28/2013 8:24:23 AM Inj : 1
Inj Volume : 5 µl
Acq. Method : C:\CHEM32\1\DATA\0327-TPH 2013-03-27 16-12-12\TPH-FRONT-1090171B.M
Last changed : 3/14/2013 1:57:38 PM
Analysis Method : C:\CHEM32\1\DATA\0327-TPH 2013-03-27 16-12-12\TPH-FRONT-1090171B.M (Sequence Method)
Last changed : 3/28/2013 10:26:55 AM (modified after loading)

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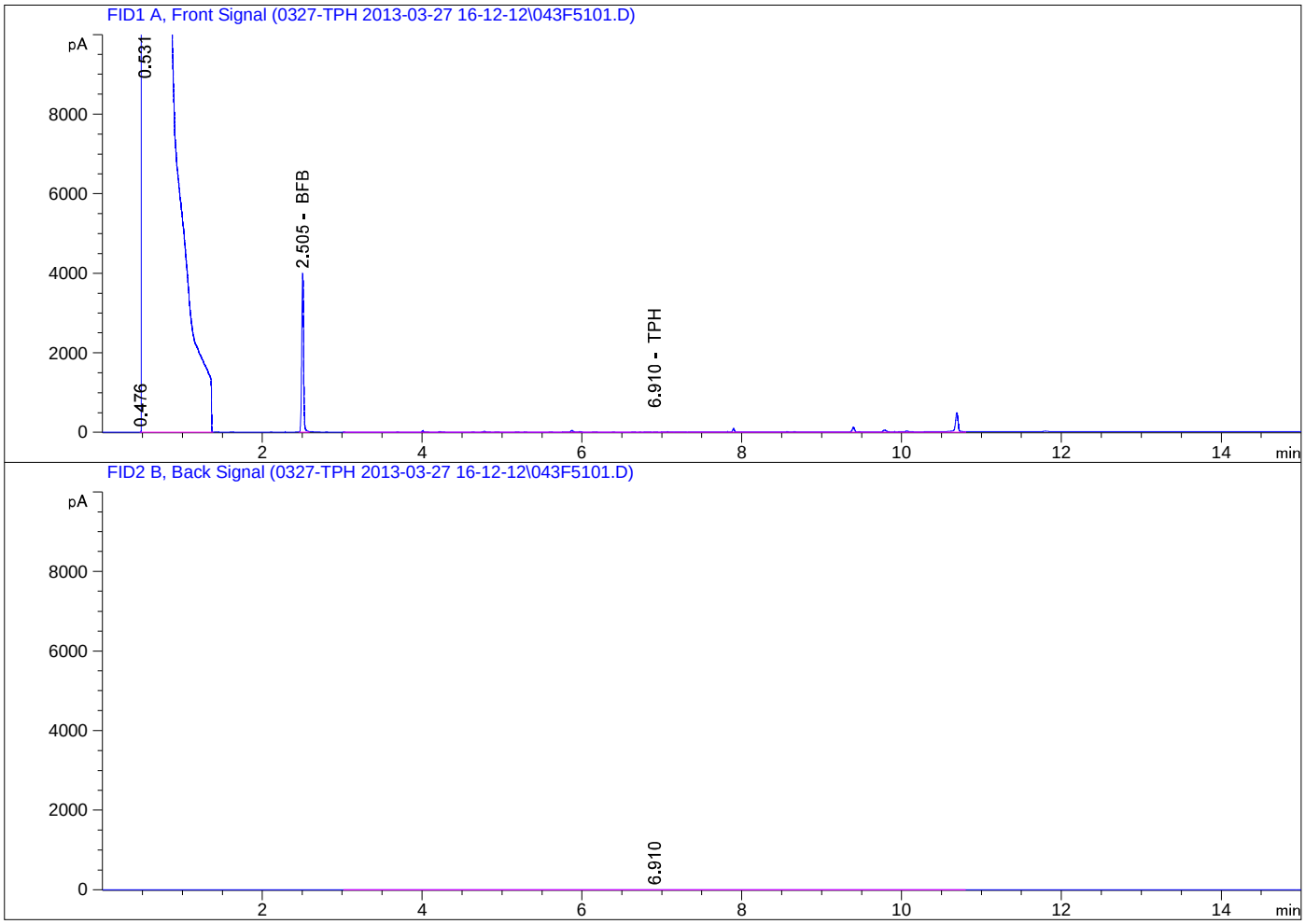

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External Standard Report

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Sorted By : Signal
Calib. Data Modified : 3/28/2013 10:26:55 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Data File C:\CHEM32\1\DATA\0327-TPH 2013-03-27 16-12-12\046F5401.D
Sample Name: 1303706-002C

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Acq. Operator	:	Seq. Line	: 54
Acq. Instrument	: GC C	Location	: Vial 46
Injection Date	: 3/28/2013 9:22:19 AM	Inj	: 1
		Inj Volume	: 5 µl

Acq. Method : C:\CHEM32\1\DATA\0327-TPH 2013-03-27 16-12-12\TPH-FRONT-1090171B.M
Last changed : 3/14/2013 1:57:38 PM
Analysis Method : C:\CHEM32\1\DATA\0327-TPH 2013-03-27 16-12-12\TPH-FRONT-1090171B.M (Sequence Method)
Last changed : 3/28/2013 10:26:55 AM (modified after loading)

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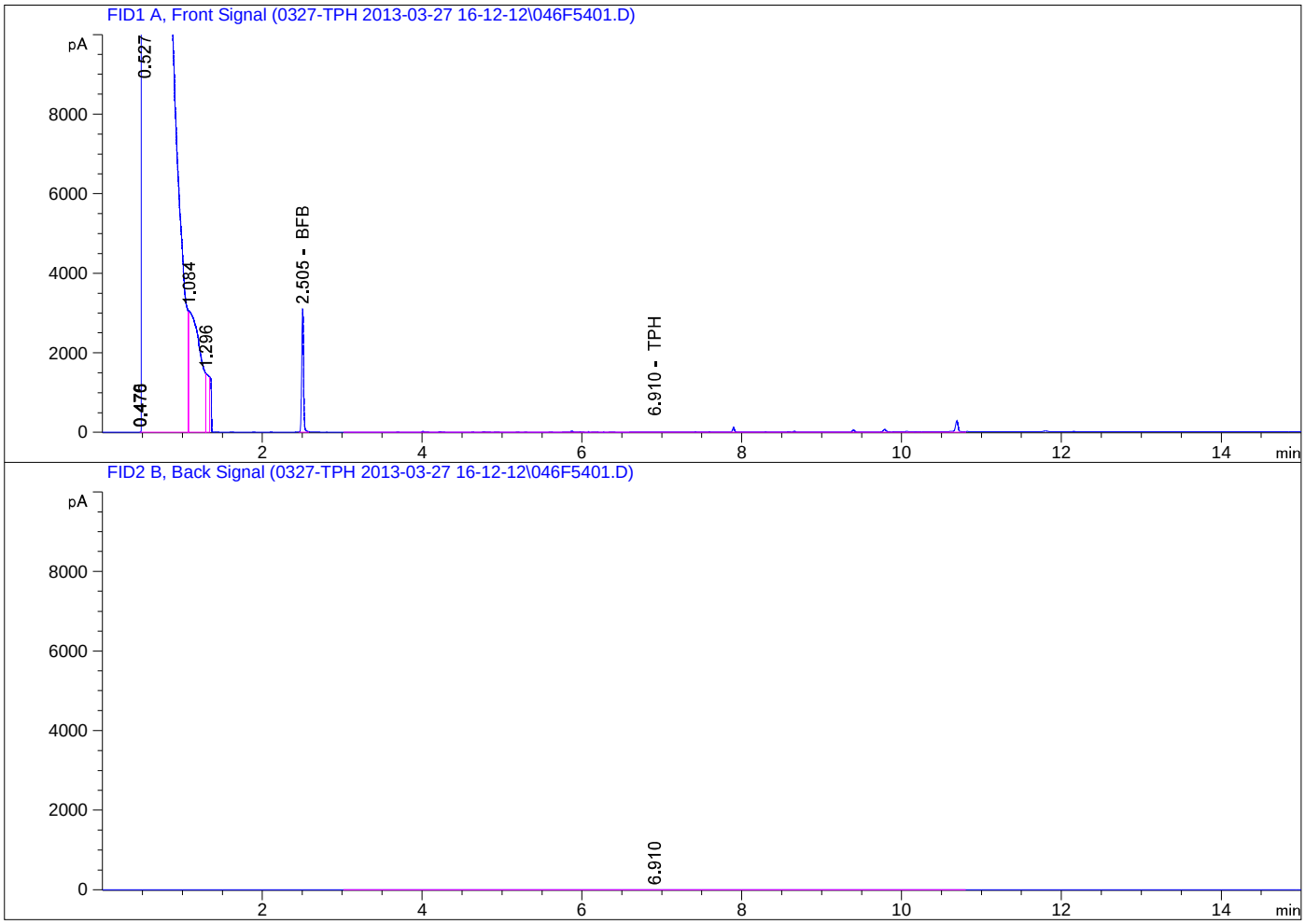

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External Standard Report

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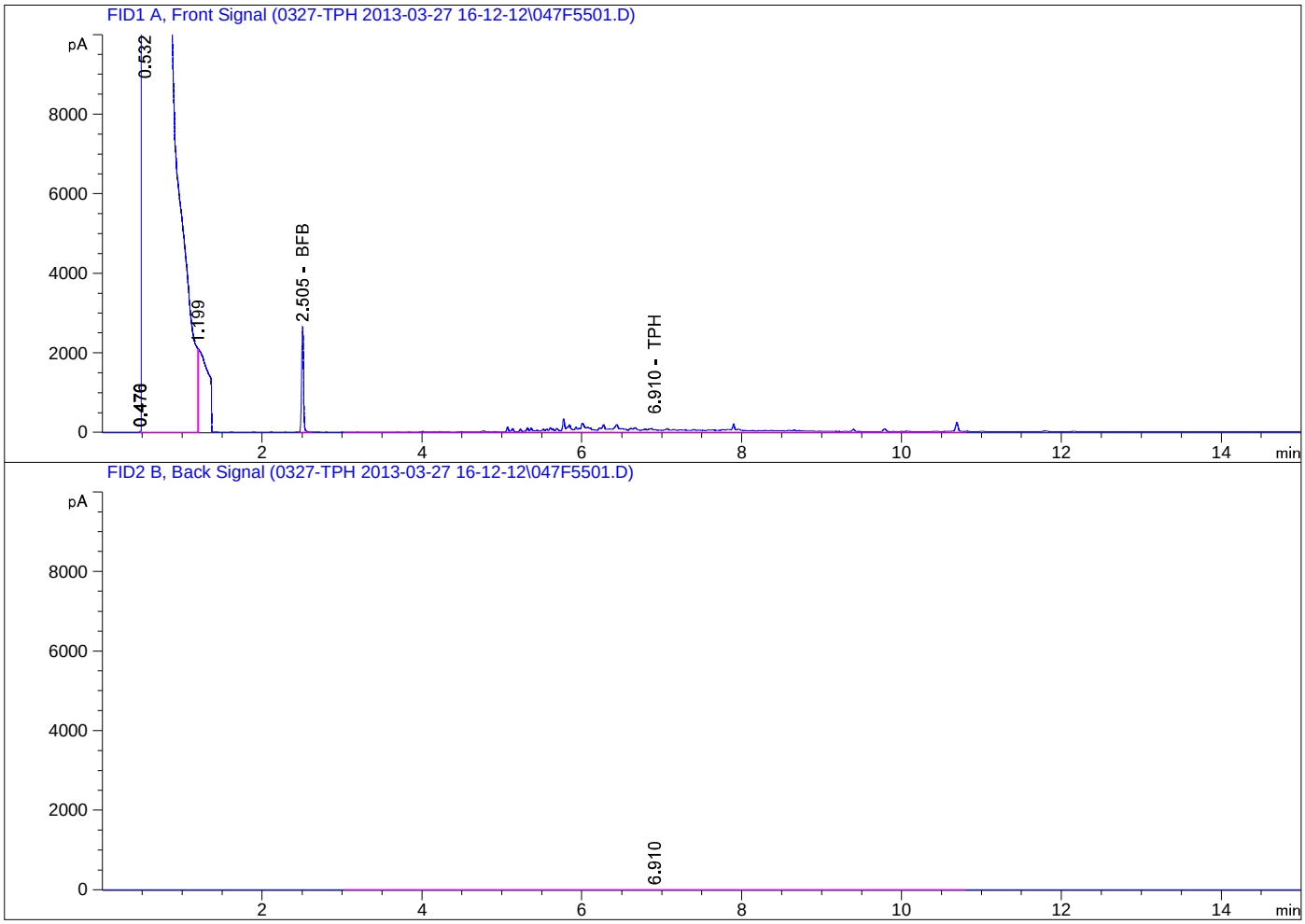
Sorted By : Signal
Calib. Data Modified : 3/28/2013 10:26:55 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Data File C:\CHEM32\1\DATA\0327-TPH 2013-03-27 16-12-12\047F5501.D
Sample Name: 1303706-003C

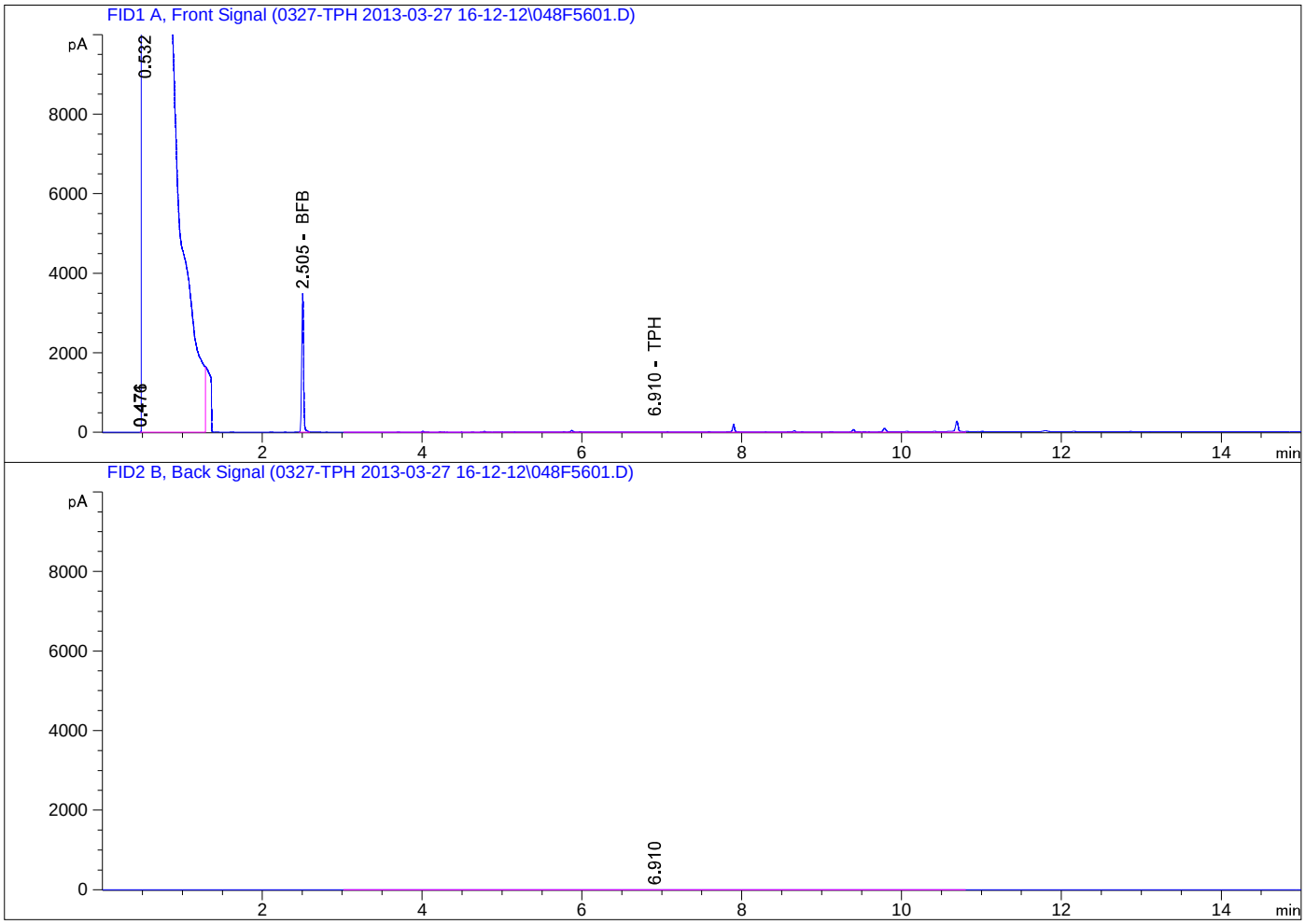
```
==================================================================
Acq. Operator   :                              Seq. Line :  55
Acq. Instrument : GC C                          Location : Vial 47
Injection Date  : 3/28/2013 9:41:33 AM               Inj :   1
                                              Inj Volume : 5 µl
Acq. Method     : C:\CHEM32\1\DATA\0327-TPH 2013-03-27 16-12-12\TPH-FRONT-1090171B.M
Last changed    : 3/14/2013 1:57:38 PM
Analysis Method : C:\CHEM32\1\DATA\0327-TPH 2013-03-27 16-12-12\TPH-FRONT-1090171B.M (Sequence
                  Method)
Last changed    : 3/28/2013 10:26:55 AM
                  (modified after loading)
==================================================================
```




```
==================================================================
                      External Standard Report
==================================================================

Sorted By             :      Signal
Calib. Data Modified  :      3/28/2013 10:26:55 AM
Multiplier:                   :      1.0000
Dilution:                     :      1.0000
Do not use Multiplier & Dilution Factor with ISTDs
```

Data File C:\CHEM32\1\DATA\0327-TPH 2013-03-27 16-12-12\048F5601.D
Sample Name: 1303706-004C

```
==================================================================
Acq. Operator   :                              Seq. Line :  56
Acq. Instrument : GC C                          Location : Vial 48
Injection Date  : 3/28/2013 10:00:50 AM               Inj :   1
                                              Inj Volume : 5 µl
Acq. Method     : C:\CHEM32\1\DATA\0327-TPH 2013-03-27 16-12-12\TPH-FRONT-1090171B.M
Last changed    : 3/14/2013 1:57:38 PM
Analysis Method : C:\CHEM32\1\DATA\0327-TPH 2013-03-27 16-12-12\TPH-FRONT-1090171B.M (Sequence
                  Method)
Last changed    : 3/28/2013 10:26:55 AM
                  (modified after loading)
==================================================================
```



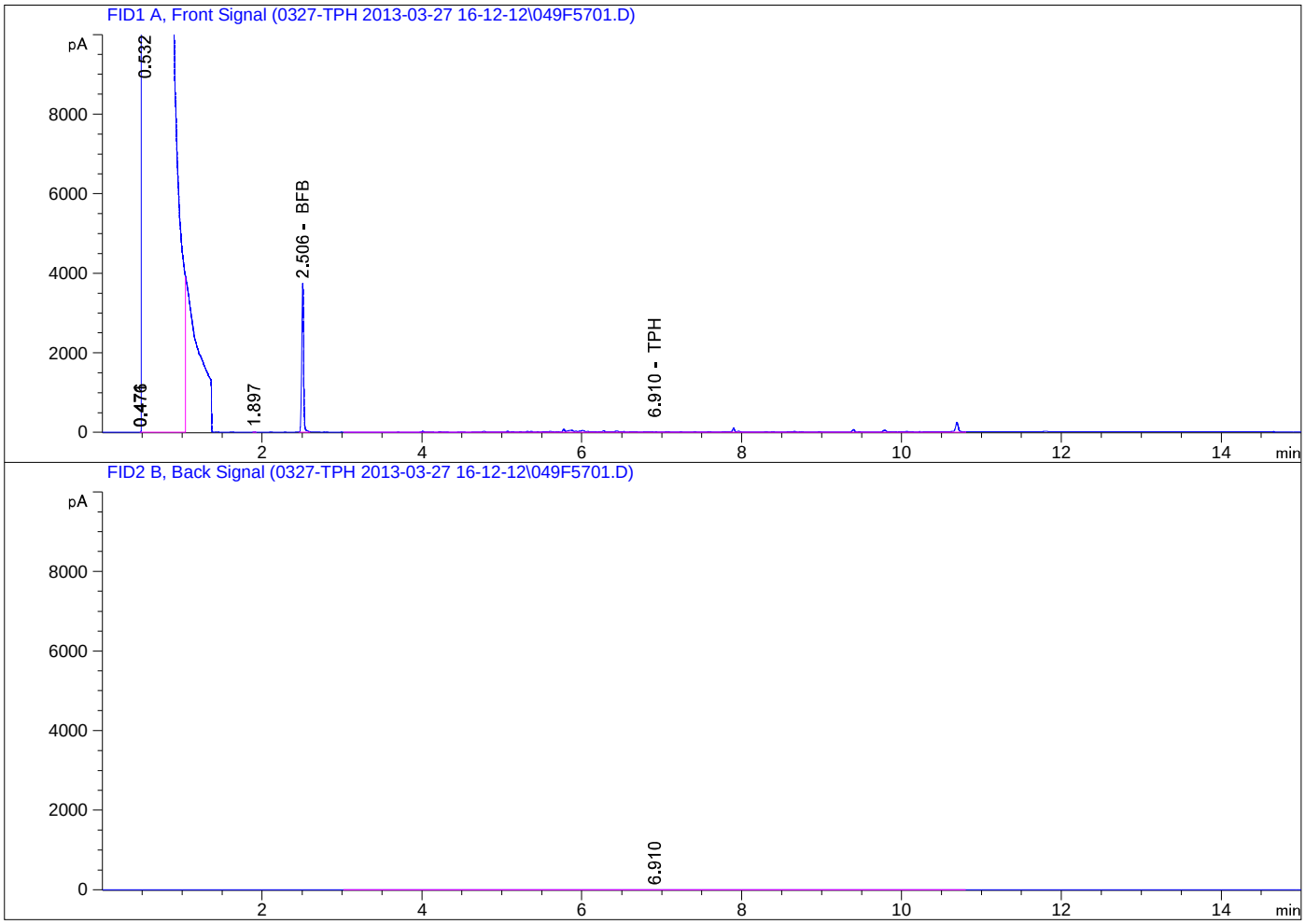

```
==================================================================
                      External Standard Report
==================================================================

Sorted By             :      Signal
Calib. Data Modified  :      3/28/2013 10:26:55 AM
Multiplier:                   :      1.0000
Dilution:                     :      1.0000
Do not use Multiplier & Dilution Factor with ISTDs
```

Data File C:\CHEM32\1\DATA\0327-TPH 2013-03-27 16-12-12\049F5701.D
Sample Name: 1303706-005C

==========

Acq. Operator : Seq. Line : 57
Acq. Instrument : GC C Location : Vial 49
Injection Date : 3/28/2013 10:20:17 AM Inj : 1
Inj Volume : 5 µl
Acq. Method : C:\CHEM32\1\DATA\0327-TPH 2013-03-27 16-12-12\TPH-FRONT-1090171B.M
Last changed : 3/14/2013 1:57:38 PM
Analysis Method : C:\CHEM32\1\DATA\0327-TPH 2013-03-27 16-12-12\TPH-FRONT-1090171B.M (Sequence Method)
Last changed : 3/28/2013 10:26:55 AM (modified after loading)

==========



==========

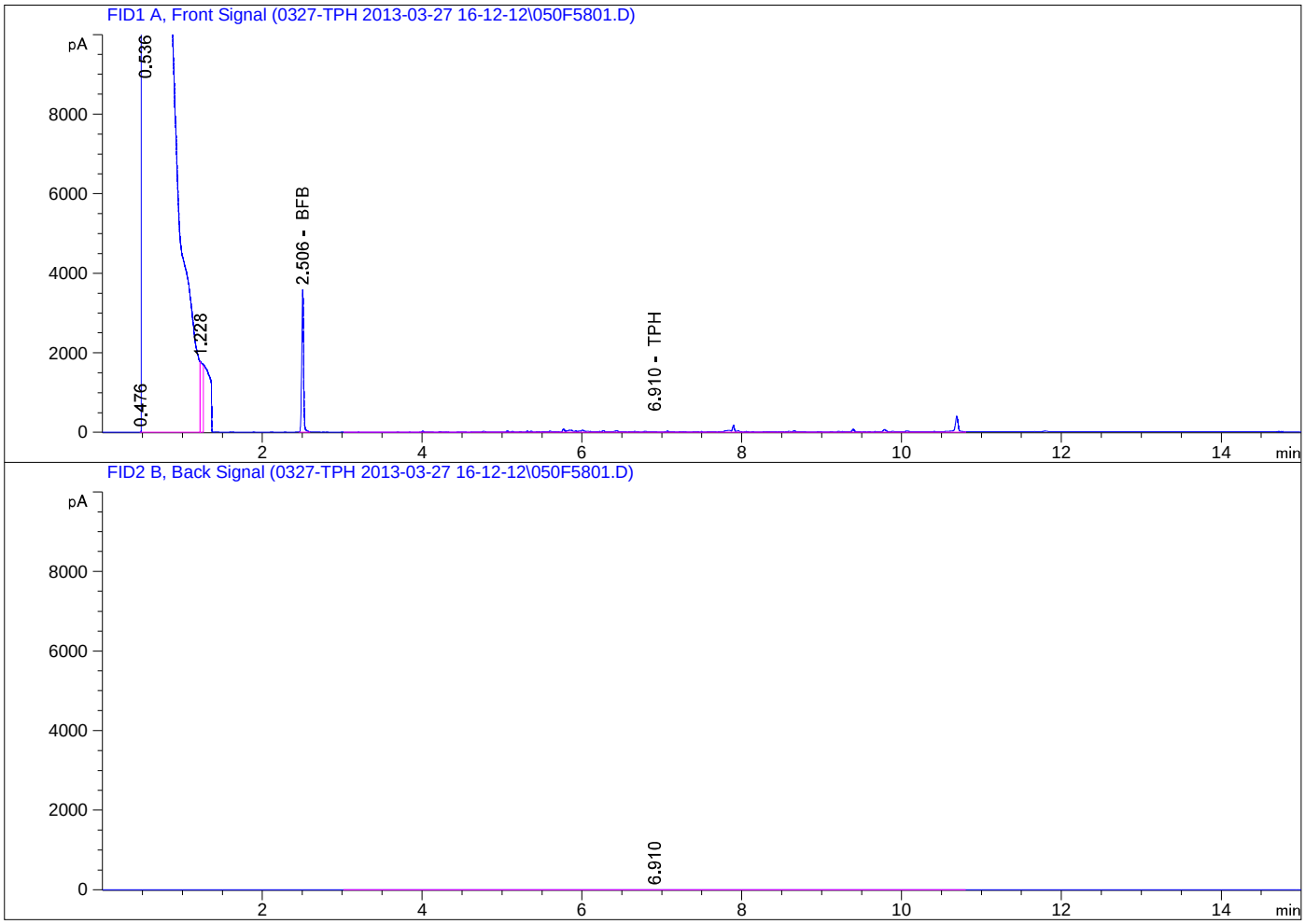
External Standard Report

==========

Sorted By : Signal
Calib. Data Modified : 3/28/2013 10:26:55 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Data File C:\CHEM32\1\DATA\0327-TPH 2013-03-27 16-12-12\050F5801.D
Sample Name: 1303706-006C

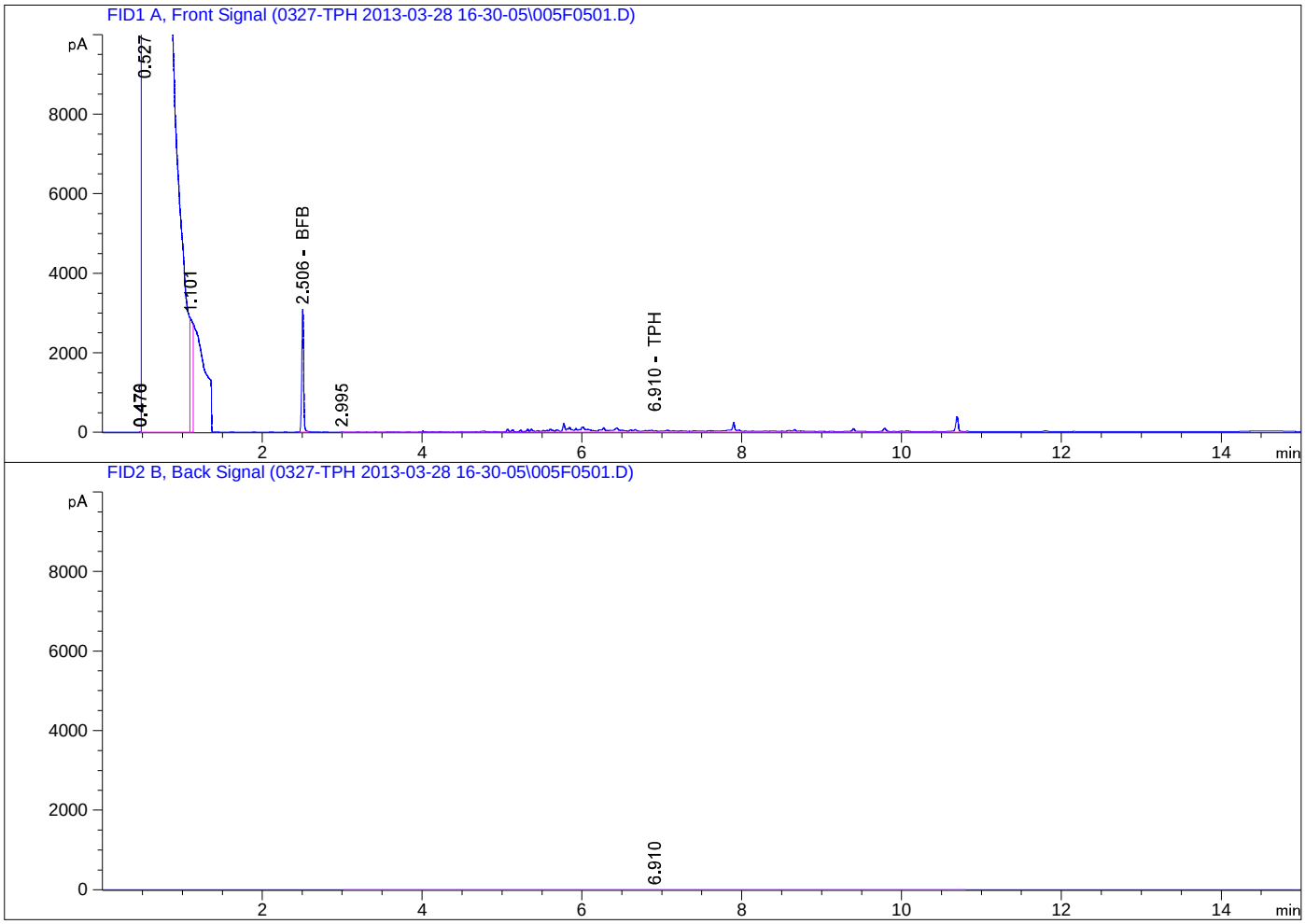
```
==================================================================
Acq. Operator   :                              Seq. Line :  58
Acq. Instrument : GC C                          Location : Vial 50
Injection Date  : 3/28/2013 10:39:33 AM               Inj :   1
                                              Inj Volume : 5 µl
Acq. Method     : C:\CHEM32\1\DATA\0327-TPH 2013-03-27 16-12-12\TPH-FRONT-1090171B.M
Last changed    : 3/14/2013 1:57:38 PM
Analysis Method : C:\CHEM32\1\DATA\0327-TPH 2013-03-27 16-12-12\TPH-FRONT-1090171B.M (Sequence
                  Method)
Last changed    : 3/28/2013 10:26:55 AM
                  (modified after loading)
==================================================================
```




```
==================================================================
                      External Standard Report
==================================================================

Sorted By             :      Signal
Calib. Data Modified  :      3/28/2013 10:26:55 AM
Multiplier:                   :      1.0000
Dilution:                     :      1.0000
Do not use Multiplier & Dilution Factor with ISTDs
```

Data File C:\CHEM32\1\DATA\0327-TPH 2013-03-28 16-30-05\005F0501.D
Sample Name: 1303706-007C

```
==================================================================
Acq. Operator   :                                Seq. Line :   5
Acq. Instrument : GC C                            Location : Vial 5
Injection Date  : 3/28/2013 5:50:03 PM                 Inj :   1
                                                Inj Volume : 5 µl
Acq. Method     : C:\CHEM32\1\DATA\0327-TPH 2013-03-28 16-30-05\TPH-FRONT-1090171B.M
Last changed    : 3/14/2013 1:57:38 PM
Analysis Method : C:\CHEM32\1\DATA\0327-TPH 2013-03-28 16-30-05\TPH-FRONT-1090171B.M (Sequence
                  Method)
Last changed    : 3/28/2013 10:21:39 PM
                  (modified after loading)
==================================================================
```



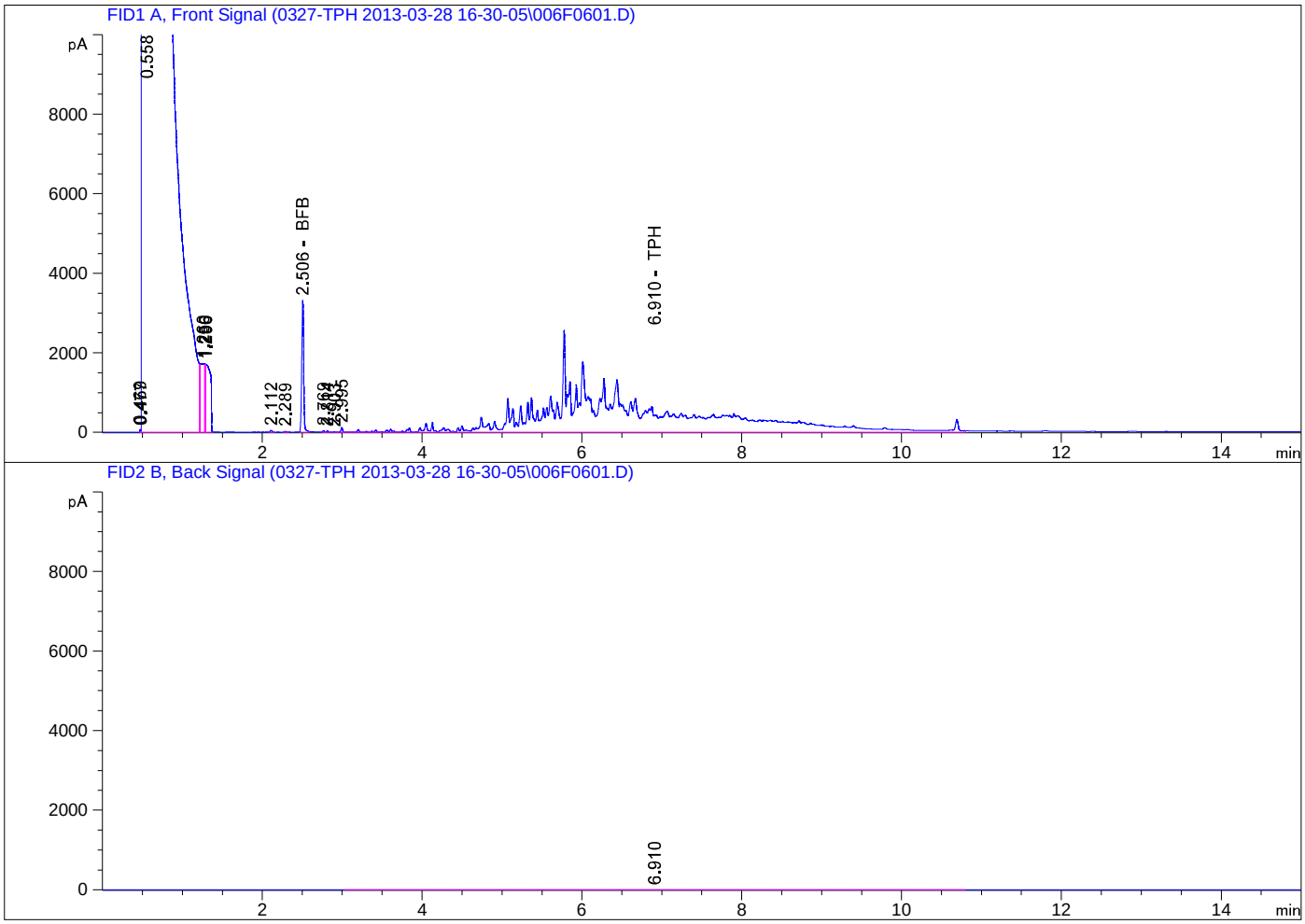

```
==================================================================
                      External Standard Report
==================================================================

Sorted By             :      Signal
Calib. Data Modified  :      3/28/2013 10:21:37 PM
Multiplier:                   :      1.0000
Dilution:                     :      1.0000
Do not use Multiplier & Dilution Factor with ISTDs
```

Data File C:\CHEM32\1\DATA\0327-TPH 2013-03-28 16-30-05\006F0601.D
Sample Name: 1303706-008C

==========

Acq. Operator : Seq. Line : 6
Acq. Instrument : GC C Location : Vial 6
Injection Date : 3/28/2013 6:09:27 PM Inj : 1
Inj Volume : 5 µl
Acq. Method : C:\CHEM32\1\DATA\0327-TPH 2013-03-28 16-30-05\TPH-FRONT-1090171B.M
Last changed : 3/14/2013 1:57:38 PM
Analysis Method : C:\CHEM32\1\DATA\0327-TPH 2013-03-28 16-30-05\TPH-FRONT-1090171B.M (Sequence Method)
Last changed : 3/28/2013 10:21:39 PM
(modified after loading)

==========



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External Standard Report

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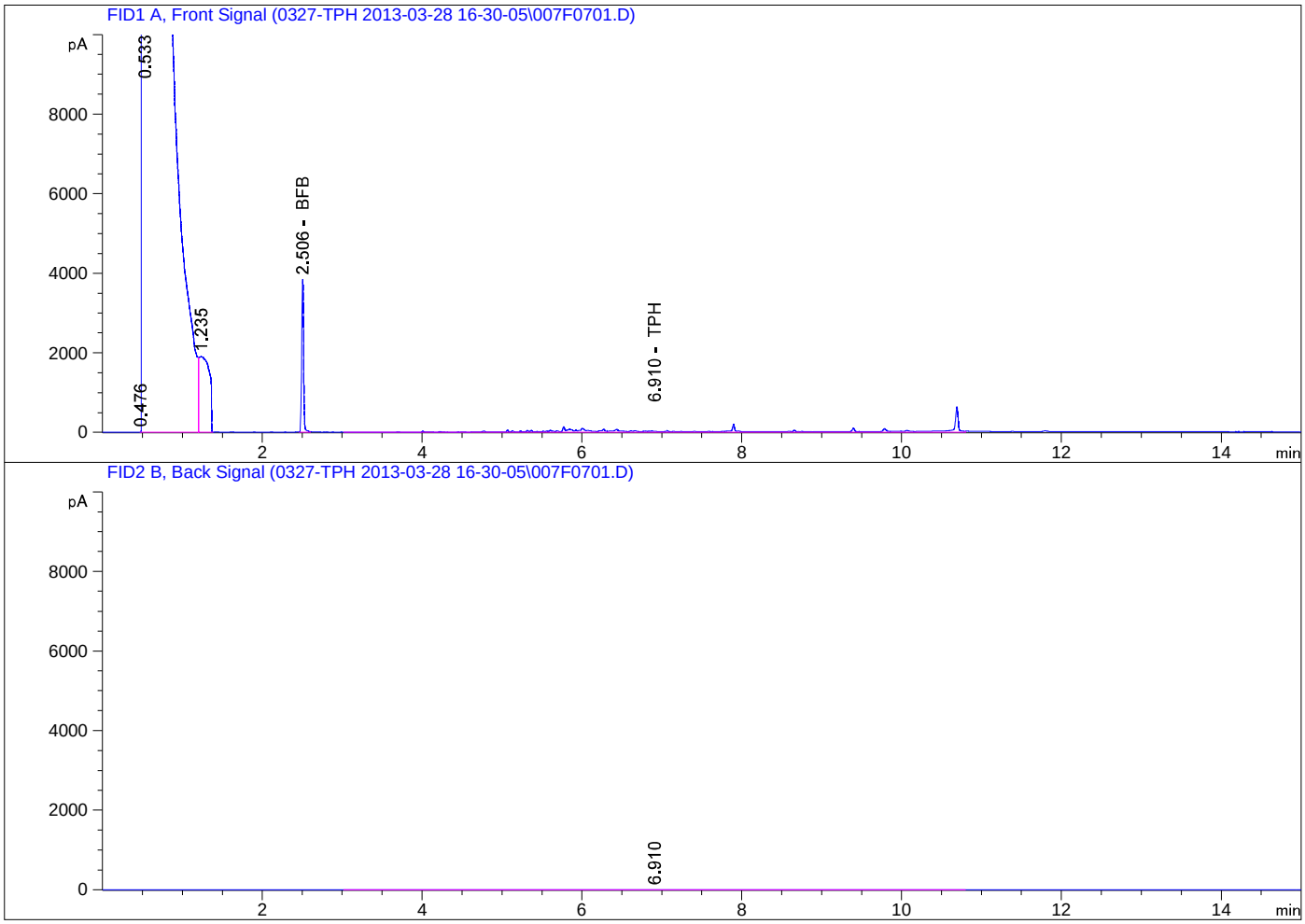
Sorted By : Signal
Calib. Data Modified : 3/28/2013 10:21:37 PM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Data File C:\CHEM32\1\DATA\0327-TPH 2013-03-28 16-30-05\007F0701.D
Sample Name: 1303706-009C

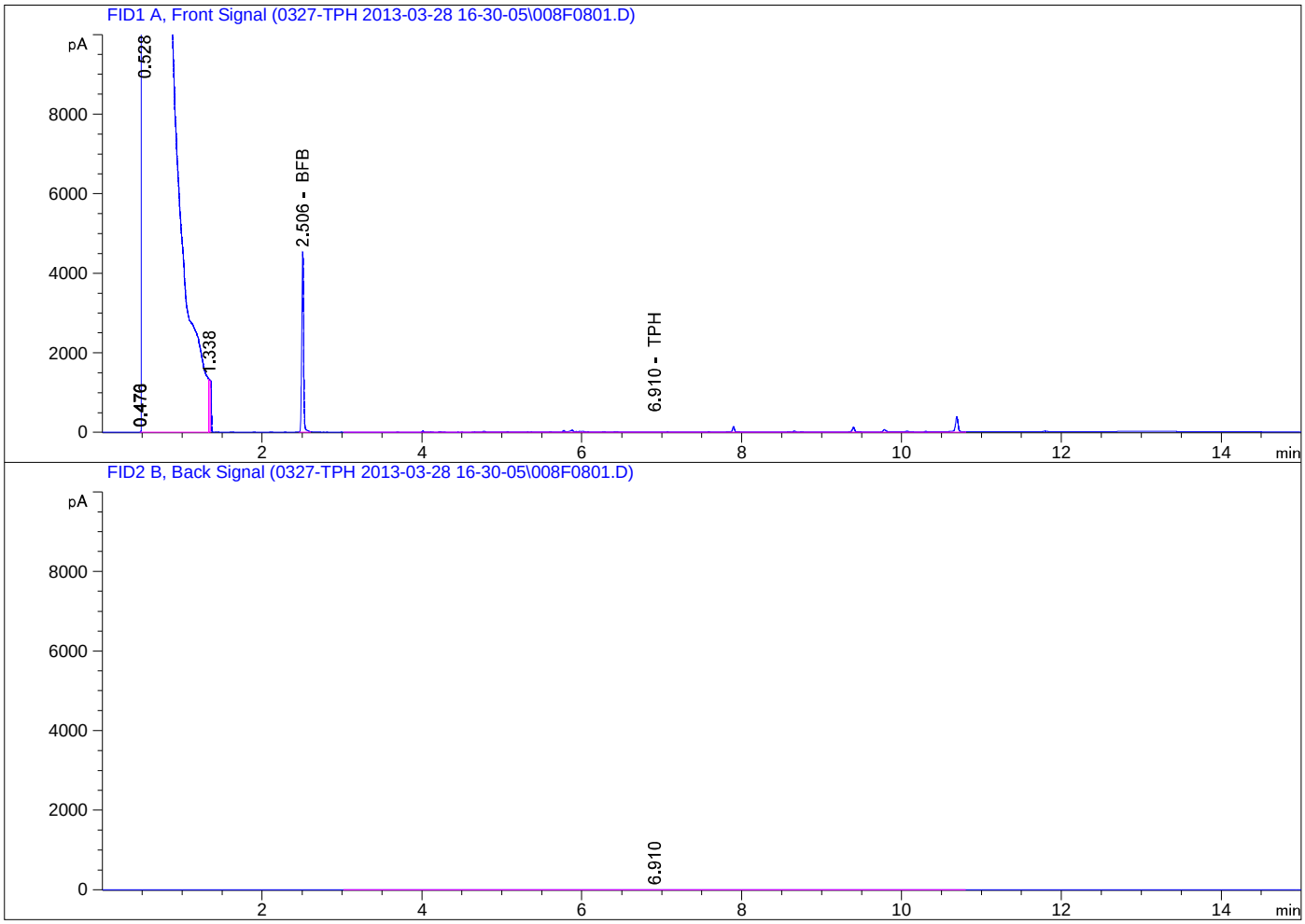
```
==================================================================
Acq. Operator   :                                Seq. Line :   7
Acq. Instrument : GC C                            Location : Vial 7
Injection Date  : 3/28/2013 6:28:50 PM                 Inj :   1
                                                Inj Volume : 5 µl
Acq. Method     : C:\CHEM32\1\DATA\0327-TPH 2013-03-28 16-30-05\TPH-FRONT-1090171B.M
Last changed    : 3/14/2013 1:57:38 PM
Analysis Method : C:\CHEM32\1\DATA\0327-TPH 2013-03-28 16-30-05\TPH-FRONT-1090171B.M (Sequence
                  Method)
Last changed    : 3/28/2013 10:21:39 PM
                  (modified after loading)
==================================================================
```




```
==================================================================
                      External Standard Report
==================================================================

Sorted By             :      Signal
Calib. Data Modified  :      3/28/2013 10:21:37 PM
Multiplier:                   :      1.0000
Dilution:                     :      1.0000
Do not use Multiplier & Dilution Factor with ISTDs
```

Data File C:\CHEM32\1\DATA\0327-TPH 2013-03-28 16-30-05\008F0801.D
Sample Name: 1303706-010C

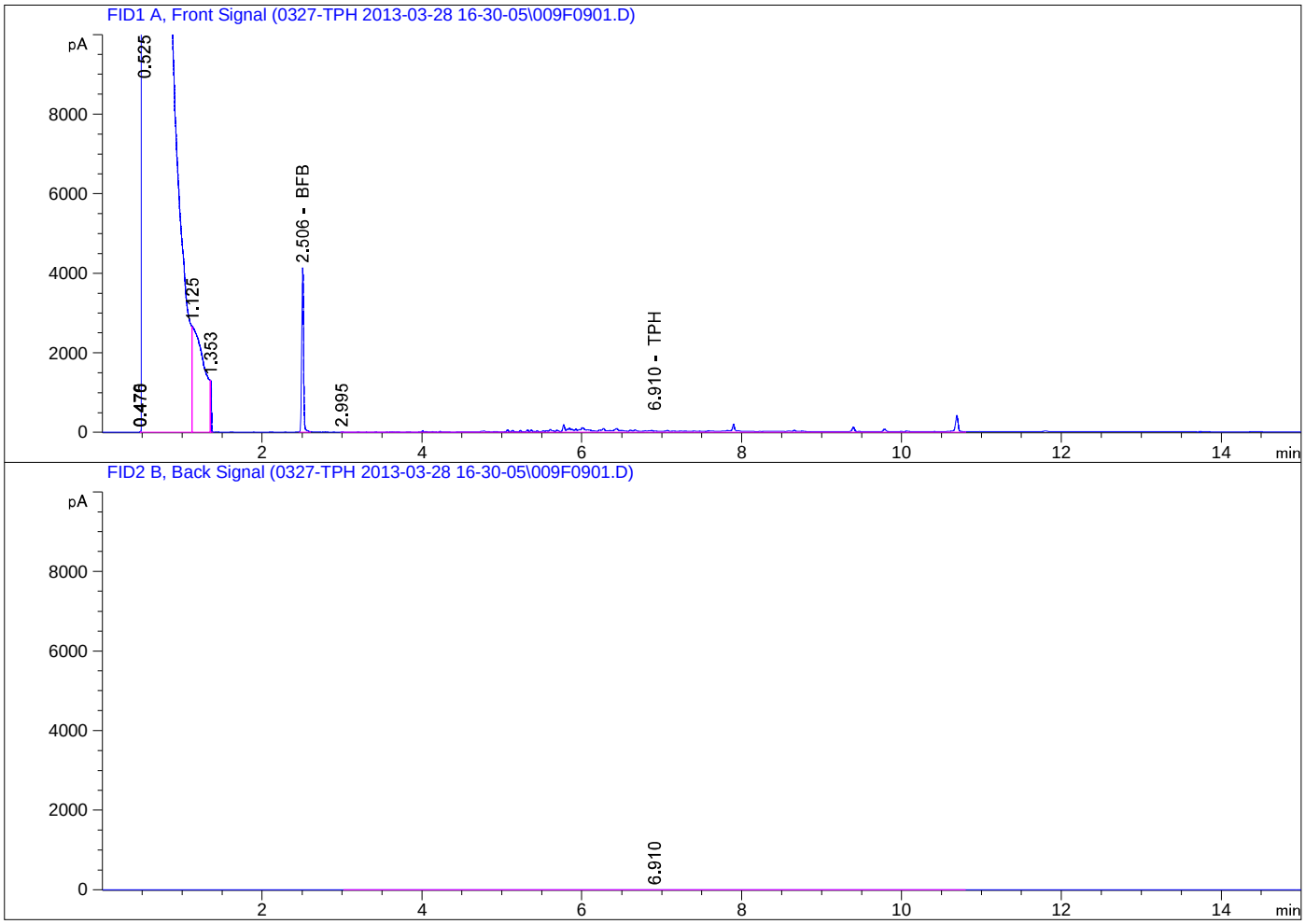
```
==================================================================
Acq. Operator   :                              Seq. Line :   8
Acq. Instrument : GC C                          Location : Vial 8
Injection Date  : 3/28/2013 6:48:22 PM               Inj :   1
                                              Inj Volume : 5 µl
Acq. Method     : C:\CHEM32\1\DATA\0327-TPH 2013-03-28 16-30-05\TPH-FRONT-1090171B.M
Last changed    : 3/14/2013 1:57:38 PM
Analysis Method : C:\CHEM32\1\DATA\0327-TPH 2013-03-28 16-30-05\TPH-FRONT-1090171B.M (Sequence
                  Method)
Last changed    : 3/28/2013 10:21:39 PM
                  (modified after loading)
==================================================================
```




```
==================================================================
                      External Standard Report
==================================================================

Sorted By             :      Signal
Calib. Data Modified  :      3/28/2013 10:21:37 PM
Multiplier:                   :      1.0000
Dilution:                     :      1.0000
Do not use Multiplier & Dilution Factor with ISTDs
```

Data File C:\CHEM32\1\DATA\0327-TPH 2013-03-28 16-30-05\009F0901.D
Sample Name: 1303706-011C

```
==================================================================
Acq. Operator   :                              Seq. Line :   9
Acq. Instrument : GC C                          Location : Vial 9
Injection Date  : 3/28/2013 7:07:50 PM               Inj :   1
                                              Inj Volume : 5 µl
Acq. Method     : C:\CHEM32\1\DATA\0327-TPH 2013-03-28 16-30-05\TPH-FRONT-1090171B.M
Last changed    : 3/14/2013 1:57:38 PM
Analysis Method : C:\CHEM32\1\DATA\0327-TPH 2013-03-28 16-30-05\TPH-FRONT-1090171B.M (Sequence
                  Method)
Last changed    : 3/28/2013 10:21:39 PM
                  (modified after loading)
==================================================================
```



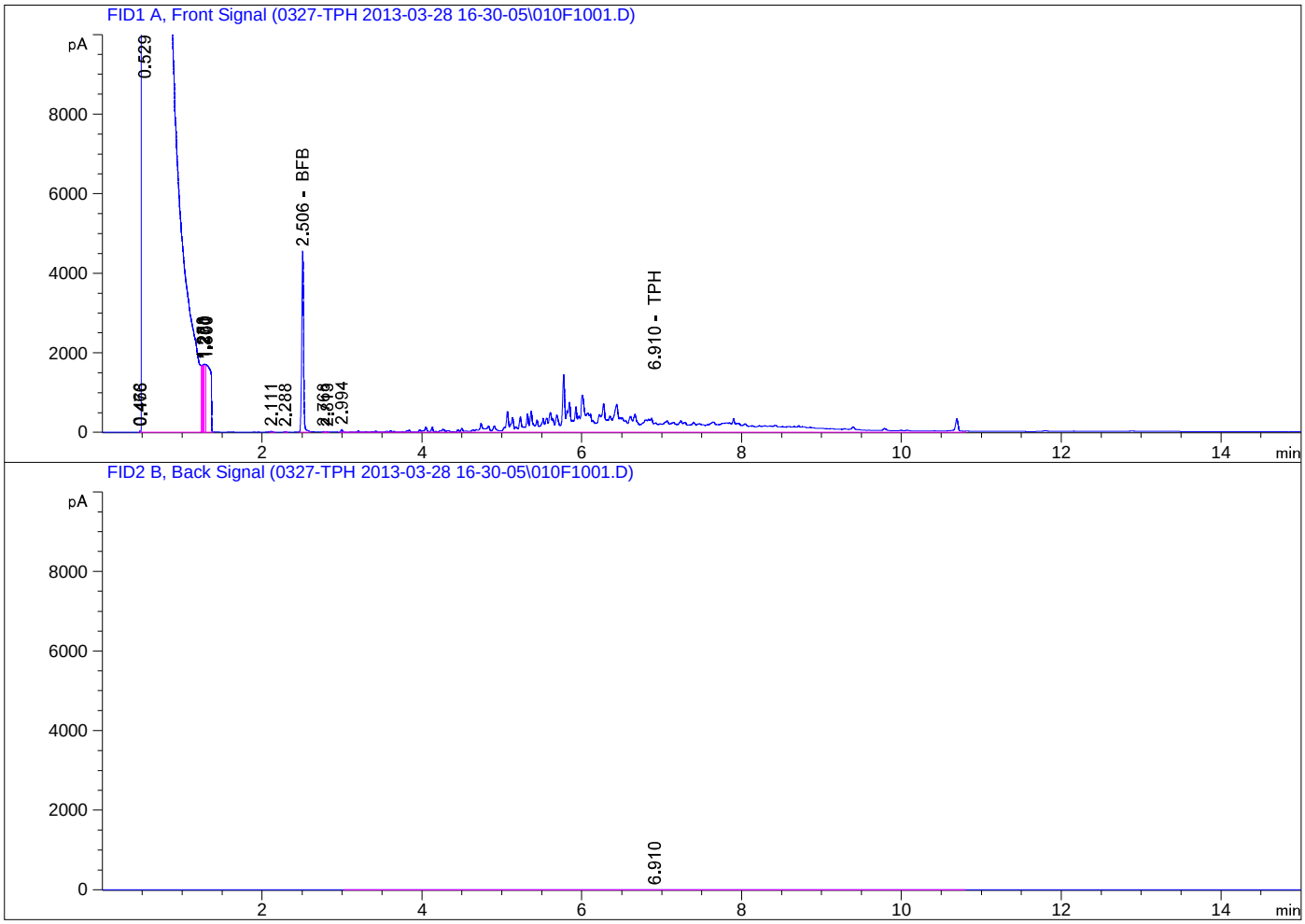

```
==================================================================
                      External Standard Report
==================================================================

Sorted By             :      Signal
Calib. Data Modified  :      3/28/2013 10:21:37 PM
Multiplier:                   :      1.0000
Dilution:                     :      1.0000
Do not use Multiplier & Dilution Factor with ISTDs
```

Data File C:\CHEM32\1\DATA\0327-TPH 2013-03-28 16-30-05\010F1001.D
Sample Name: 1303706-014C

==========

Acq. Operator : Seq. Line : 10
Acq. Instrument : GC C Location : Vial 10
Injection Date : 3/28/2013 7:27:12 PM Inj : 1
Inj Volume : 5 µl
Acq. Method : C:\CHEM32\1\DATA\0327-TPH 2013-03-28 16-30-05\TPH-FRONT-1090171B.M
Last changed : 3/14/2013 1:57:38 PM
Analysis Method : C:\CHEM32\1\DATA\0327-TPH 2013-03-28 16-30-05\TPH-FRONT-1090171B.M (Sequence Method)
Last changed : 3/28/2013 10:21:39 PM
(modified after loading)

==========



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External Standard Report

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Sorted By : Signal
Calib. Data Modified : 3/28/2013 10:27:06 PM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Data File C:\CHEM32\1\DATA\0327-TPH 2013-03-28 16-30-05\011F1101.D
Sample Name: 1303706-015C

==========

Acq. Operator : Seq. Line : 11
Acq. Instrument : GC C Location : Vial 11
Injection Date : 3/28/2013 7:46:33 PM Inj : 1
Inj Volume : 5 µl
Acq. Method : C:\CHEM32\1\DATA\0327-TPH 2013-03-28 16-30-05\TPH-FRONT-1090171B.M
Last changed : 3/14/2013 1:57:38 PM
Analysis Method : C:\CHEM32\1\DATA\0327-TPH 2013-03-28 16-30-05\TPH-FRONT-1090171B.M (Sequence Method)
Last changed : 3/28/2013 10:21:39 PM
(modified after loading)

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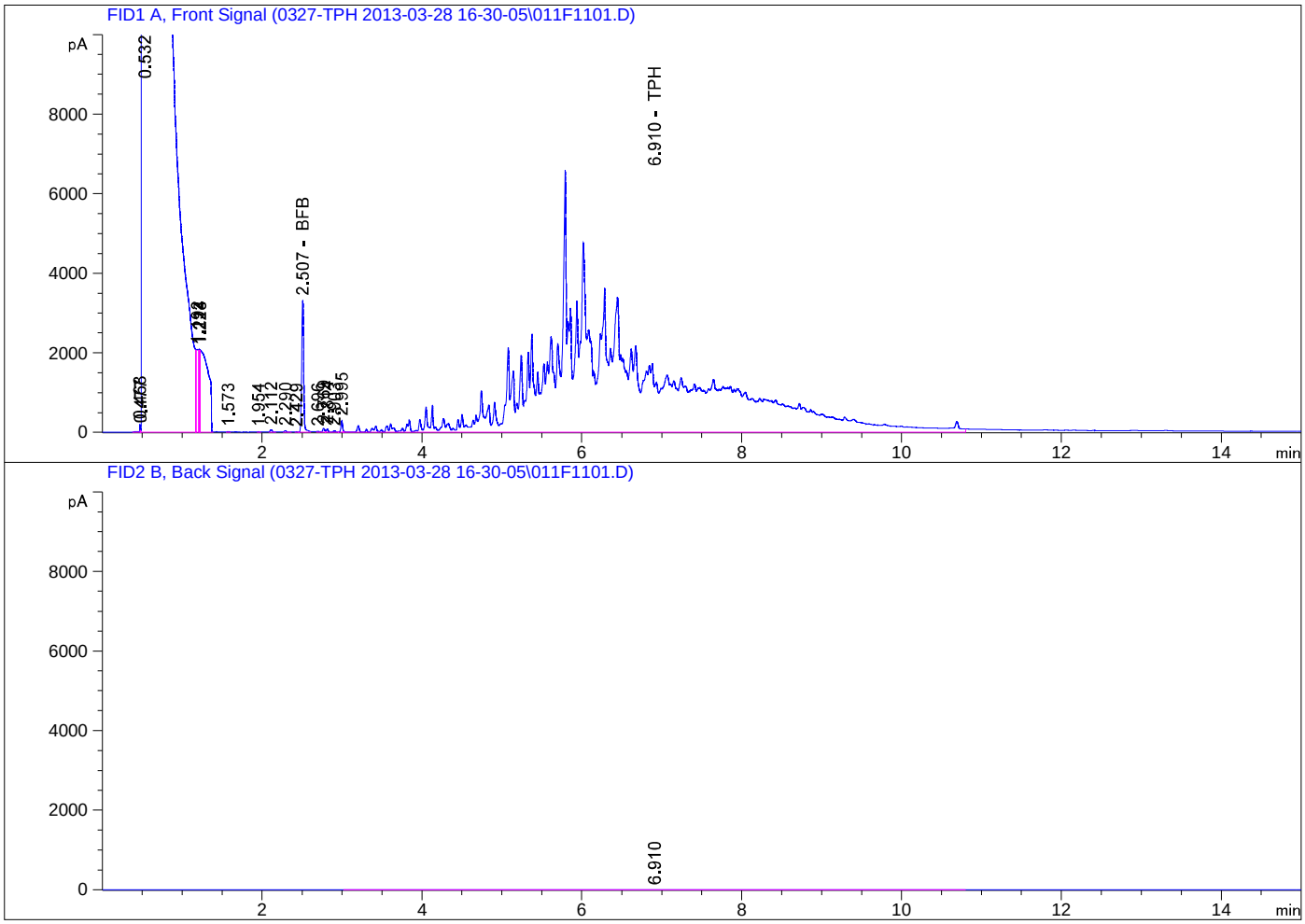

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External Standard Report

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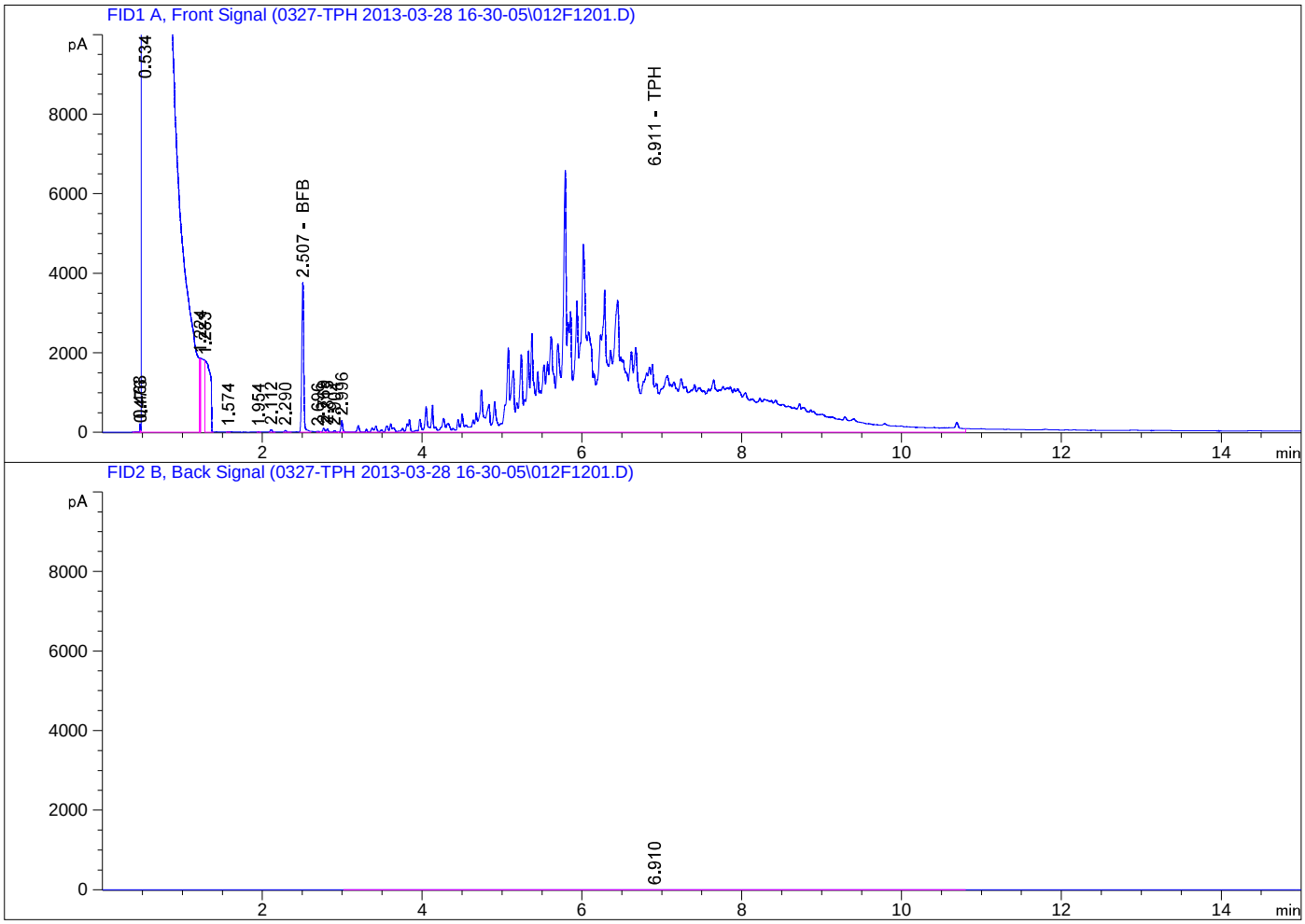
Sorted By : Signal
Calib. Data Modified : 3/28/2013 10:21:37 PM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Data File C:\CHEM32\1\DATA\0327-TPH 2013-03-28 16-30-05\012F1201.D
Sample Name: 1303706-016C

==========

Acq. Operator : Seq. Line : 12
Acq. Instrument : GC C Location : Vial 12
Injection Date : 3/28/2013 8:05:55 PM Inj : 1
Inj Volume : 5 µl
Acq. Method : C:\CHEM32\1\DATA\0327-TPH 2013-03-28 16-30-05\TPH-FRONT-1090171B.M
Last changed : 3/14/2013 1:57:38 PM
Analysis Method : C:\CHEM32\1\DATA\0327-TPH 2013-03-28 16-30-05\TPH-FRONT-1090171B.M (Sequence Method)
Last changed : 3/28/2013 10:21:39 PM
(modified after loading)

==========



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External Standard Report

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Sorted By : Signal
Calib. Data Modified : 3/28/2013 10:21:37 PM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

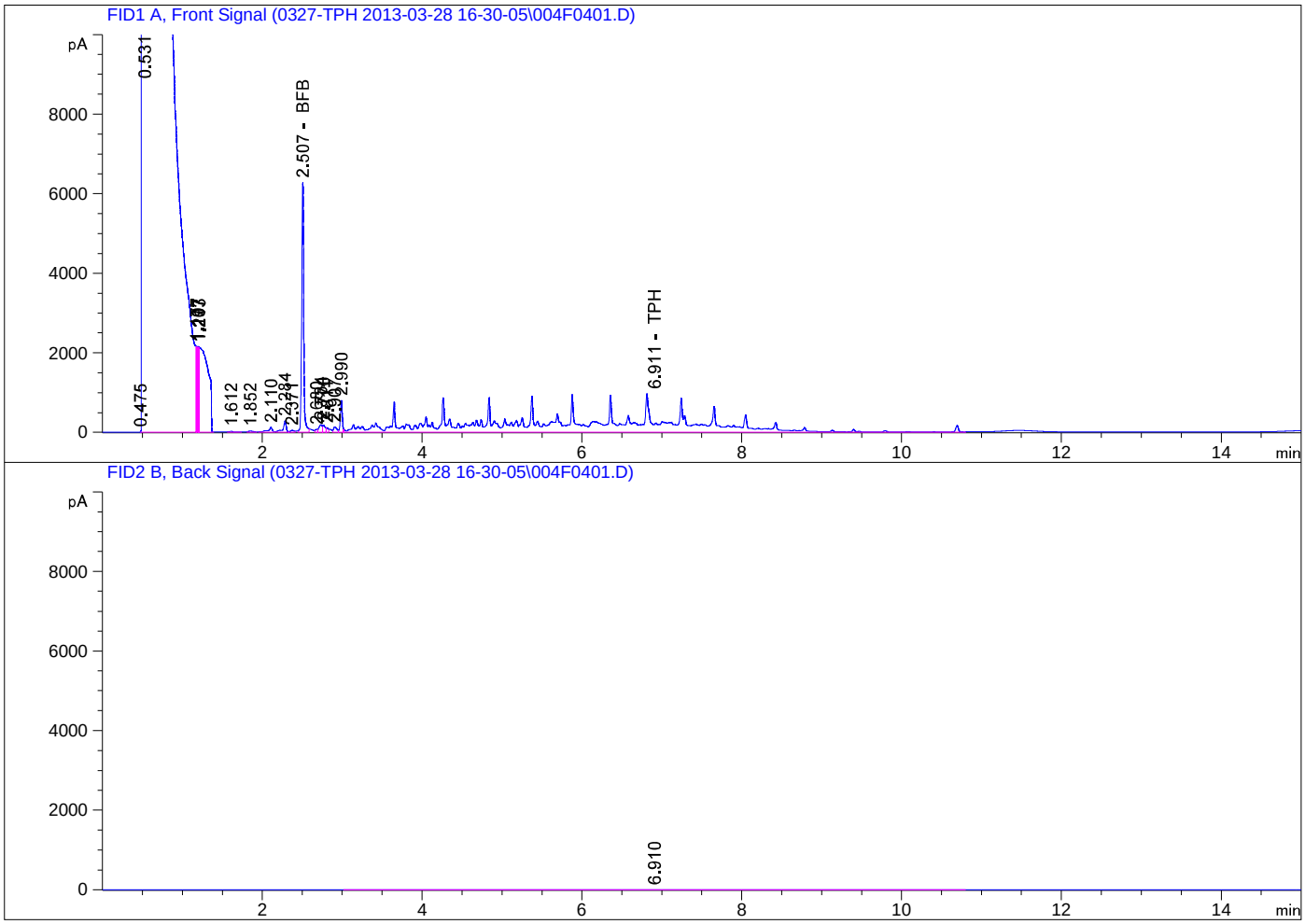
Data File C:\CHEM32\1\DATA\0327-TPH 2013-03-28 16-30-05\004F0401.D
Sample Name: LCS-24424

==========

Acq. Operator	:	Seq. Line	: 4
Acq. Instrument	: GC C	Location	: Vial 4
Injection Date	: 3/28/2013 5:30:33 PM	Inj	: 1
		Inj Volume	: 5 µl

Acq. Method : C:\CHEM32\1\DATA\0327-TPH 2013-03-28 16-30-05\TPH-FRONT-1090171B.M
Last changed : 3/14/2013 1:57:38 PM
Analysis Method : C:\CHEM32\1\DATA\0327-TPH 2013-03-28 16-30-05\TPH-FRONT-1090171B.M (Sequence Method)
Last changed : 3/28/2013 10:21:39 PM (modified after loading)

==========



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External Standard Report

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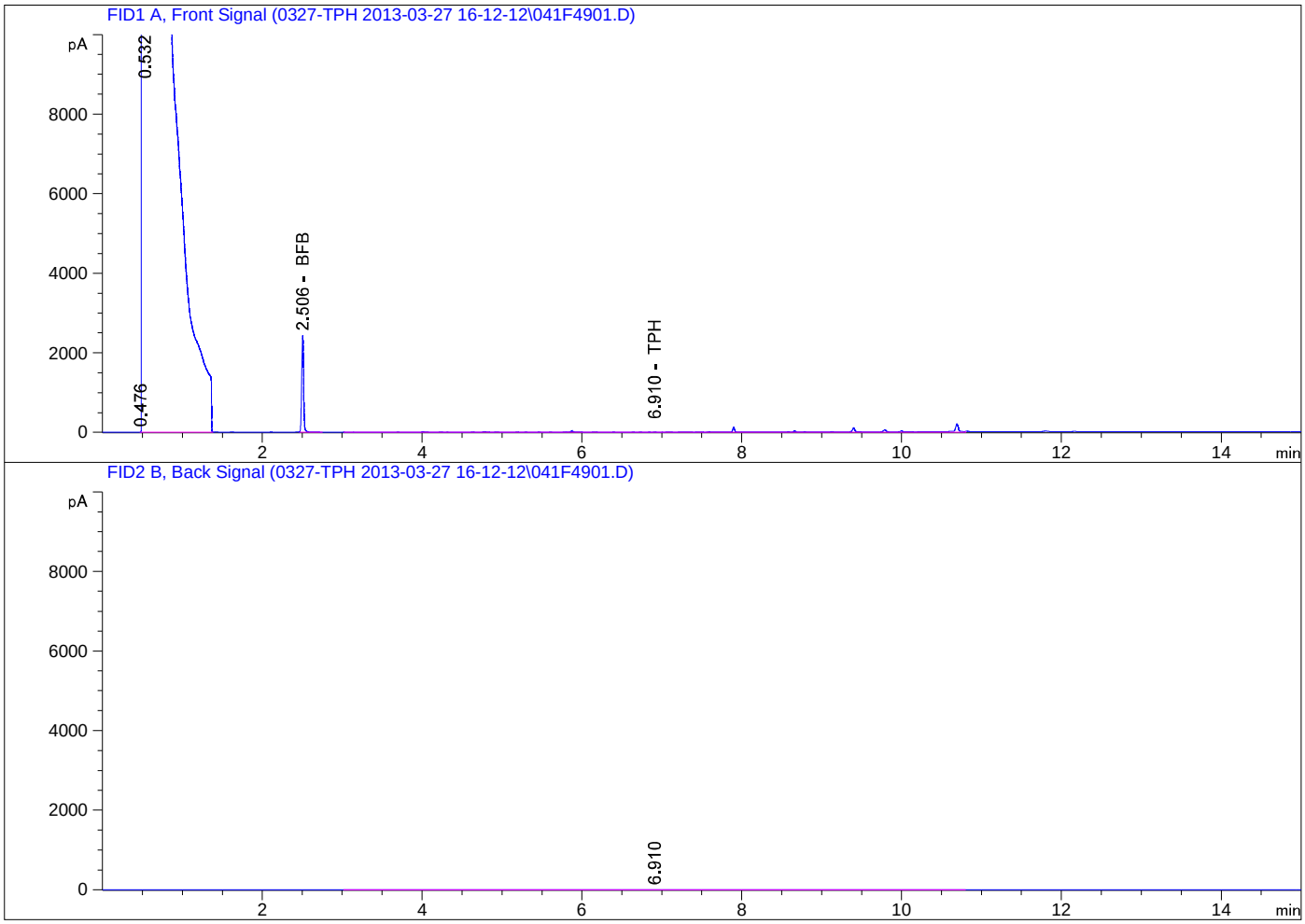
Sorted By : Signal
Calib. Data Modified : 3/28/2013 10:21:37 PM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Data File C:\CHEM32\1\DATA\0327-TPH 2013-03-27 16-12-12\041F4901.D
Sample Name: MB-24424

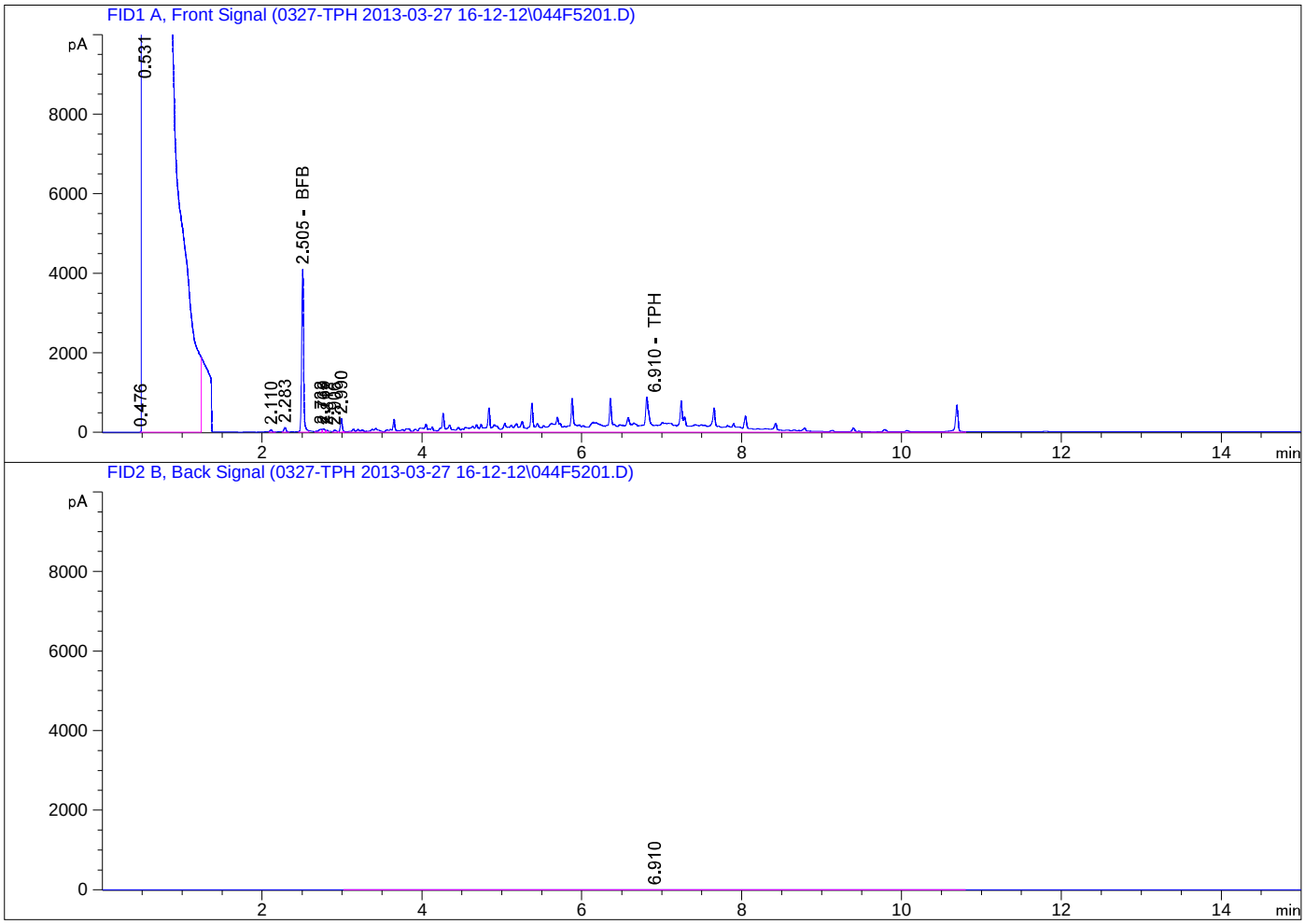
```
==================================================================
Acq. Operator   :                              Seq. Line :  49
Acq. Instrument : GC C                          Location : Vial 41
Injection Date  : 3/28/2013 7:45:44 AM               Inj :   1
                                              Inj Volume : 5 µl
Acq. Method     : C:\CHEM32\1\DATA\0327-TPH 2013-03-27 16-12-12\TPH-FRONT-1090171B.M
Last changed    : 3/14/2013 1:57:38 PM
Analysis Method : C:\CHEM32\1\DATA\0327-TPH 2013-03-27 16-12-12\TPH-FRONT-1090171B.M (Sequence
                  Method)
Last changed    : 3/28/2013 10:26:55 AM
                  (modified after loading)
==================================================================
```




```
==================================================================
                      External Standard Report
==================================================================

Sorted By             :      Signal
Calib. Data Modified  :      3/28/2013 10:26:55 AM
Multiplier:                   :      1.0000
Dilution:                     :      1.0000
Do not use Multiplier & Dilution Factor with ISTDs
```

Data File C:\CHEM32\1\DATA\0327-TPH 2013-03-27 16-12-12\044F5201.D
Sample Name: 1303706-001CMS

```
==================================================================
Acq. Operator   :                                Seq. Line :  52
Acq. Instrument : GC C                            Location : Vial 44
Injection Date  : 3/28/2013 8:43:42 AM                 Inj :   1
                                                Inj Volume : 5 µl
Acq. Method     : C:\CHEM32\1\DATA\0327-TPH 2013-03-27 16-12-12\TPH-FRONT-1090171B.M
Last changed    : 3/14/2013 1:57:38 PM
Analysis Method : C:\CHEM32\1\DATA\0327-TPH 2013-03-27 16-12-12\TPH-FRONT-1090171B.M (Sequence
                  Method)
Last changed    : 3/28/2013 10:26:55 AM
                  (modified after loading)
==================================================================
```



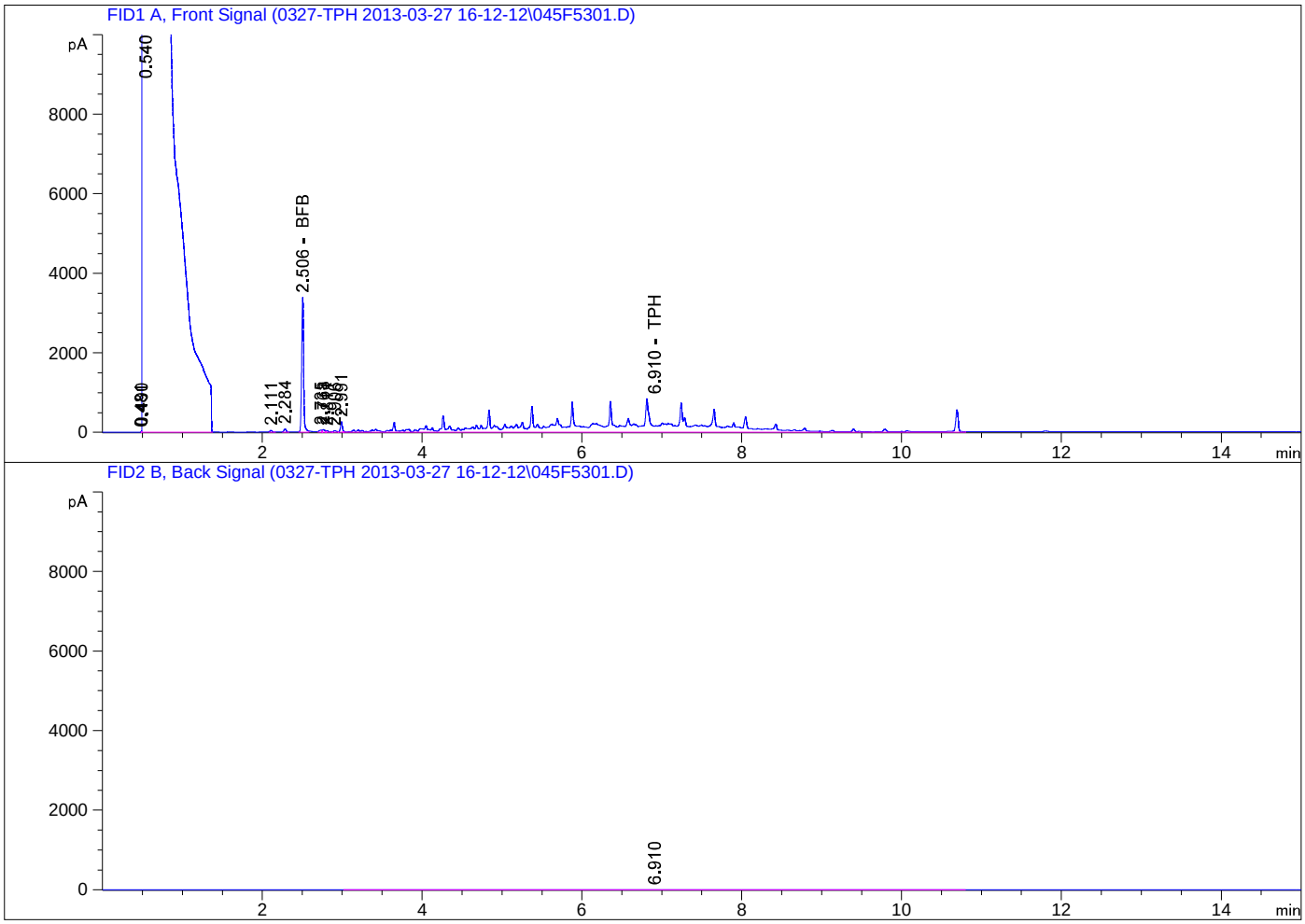

```
==================================================================
                      External Standard Report
==================================================================

Sorted By              :      Signal
Calib. Data Modified   :      3/28/2013 10:26:55 AM
Multiplier:                    :      1.0000
Dilution:                      :      1.0000
Do not use Multiplier & Dilution Factor with ISTDs
```

Data File C:\CHEM32\1\DATA\0327-TPH 2013-03-27 16-12-12\045F5301.D
Sample Name: 1303706-001CMSD

==========

Acq. Operator : Seq. Line : 53
Acq. Instrument : GC C Location : Vial 45
Injection Date : 3/28/2013 9:03:01 AM Inj : 1
Inj Volume : 5 µl
Acq. Method : C:\CHEM32\1\DATA\0327-TPH 2013-03-27 16-12-12\TPH-FRONT-1090171B.M
Last changed : 3/14/2013 1:57:38 PM
Analysis Method : C:\CHEM32\1\DATA\0327-TPH 2013-03-27 16-12-12\TPH-FRONT-1090171B.M (Sequence Method)
Last changed : 3/28/2013 10:26:55 AM (modified after loading)

==========



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External Standard Report

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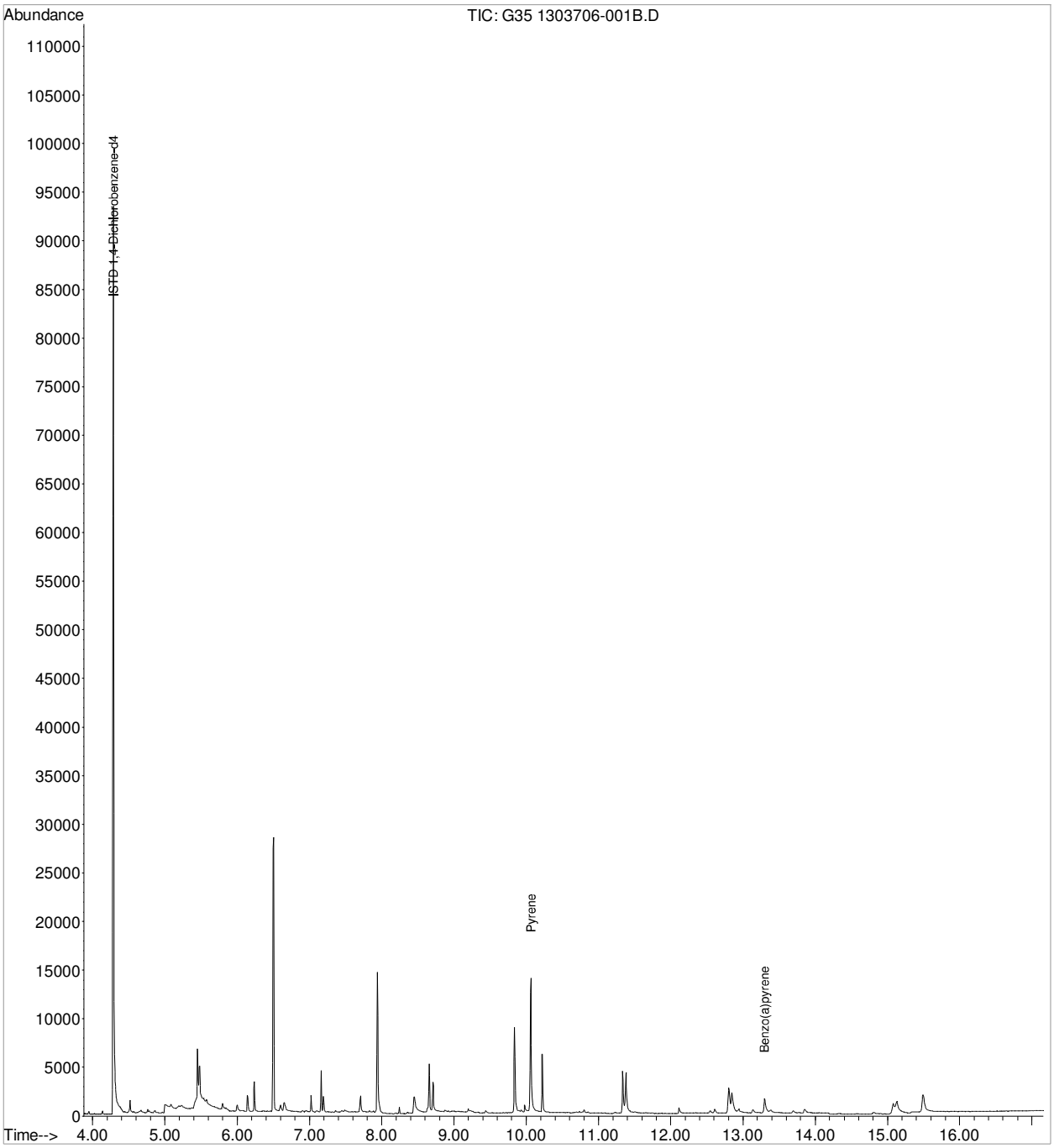
Sorted By : Signal
Calib. Data Modified : 3/28/2013 10:26:55 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Quantitation Report (QT Reviewed)

Data Path : Z:\MSDChem\1\DATA\APR 13\01APR13-A\
Data File : G35 1303706-001B.D
Acq On : 1 Apr 2013 12:21 pm
Operator : ALICIA HABERLE
Sample : 1303706-001B
Misc : SAMP
ALS Vial : 13 Sample Multiplier: 1

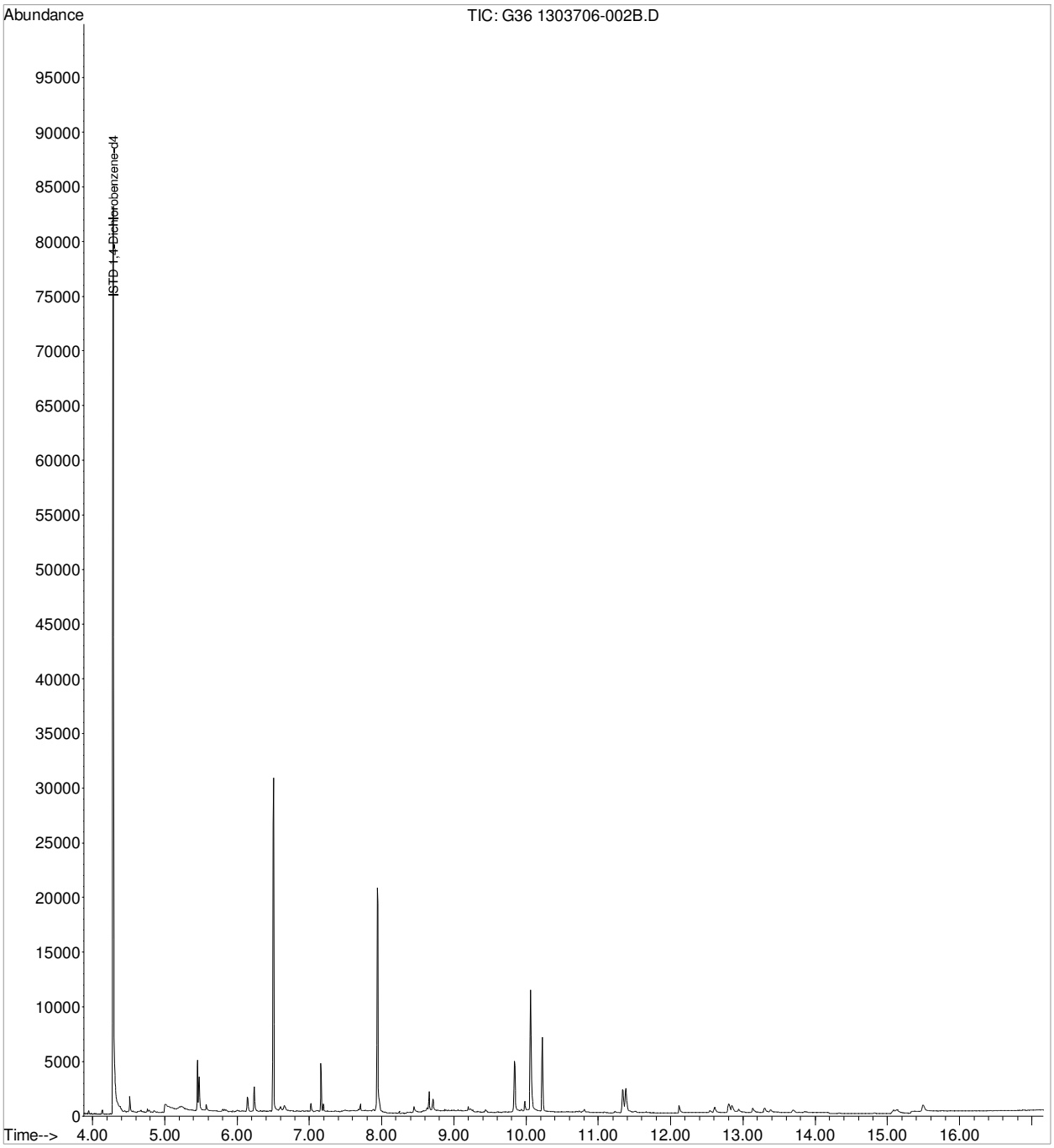
Quant Time: Apr 01 12:49:28 2013
Quant Method : C:\MSDCHEM\1\METHODS\PAH GWM QUANT SIM 03-20-2013.M
Quant Title : Semi-Volatile Compounds HP-GCMS 5973-B
QLast Update : Mon Apr 01 08:43:20 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : Z:\MSDCHEM\1\DATA\APR 13\01APR13-A\
Data File : G36 1303706-002B.D
Acq On : 1 Apr 2013 12:48 pm
Operator : ALICIA HABERLE
Sample : 1303706-002B
Misc : SAMP
ALS Vial : 14 Sample Multiplier: 1

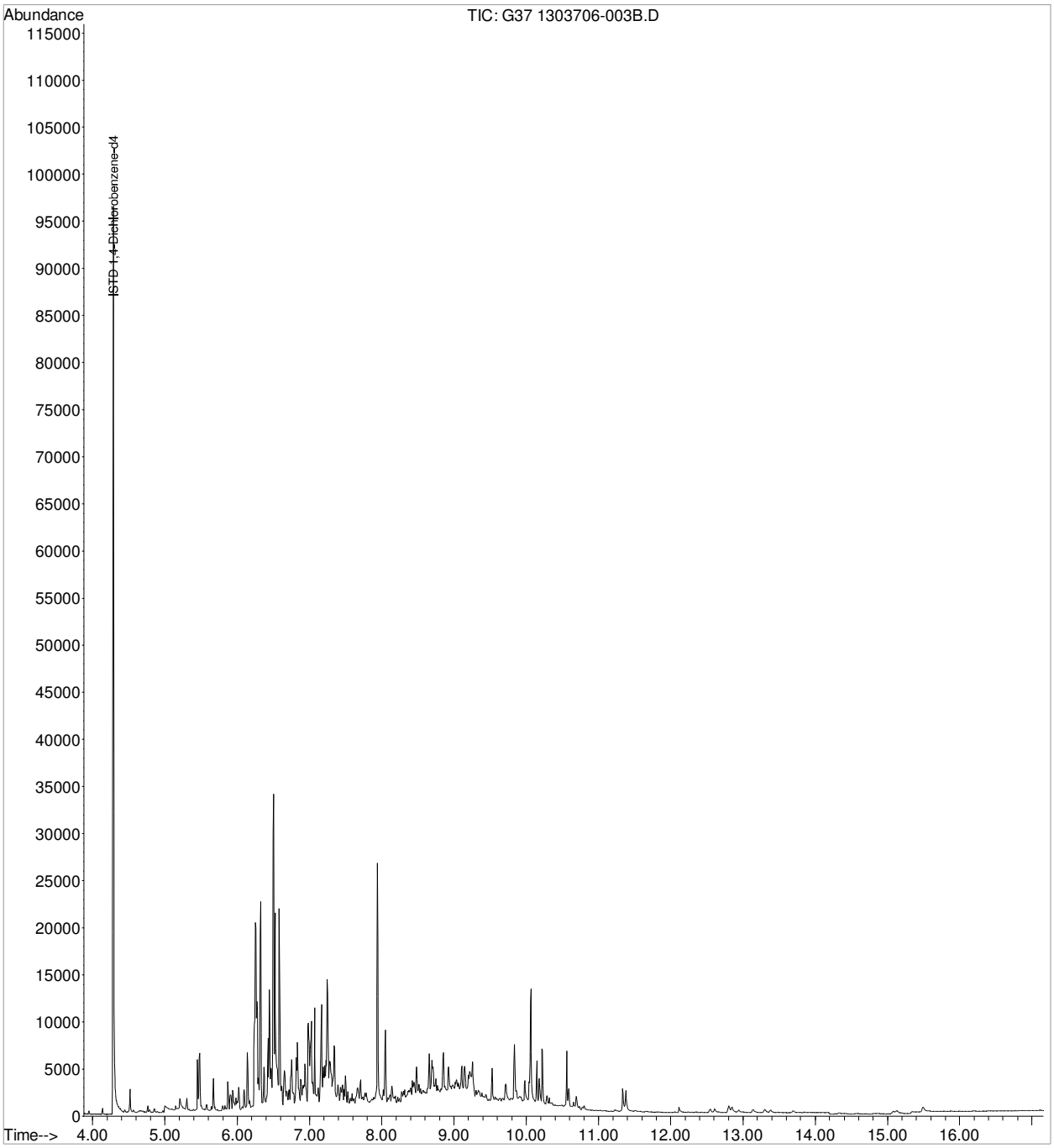
Quant Time: Apr 01 20:05:52 2013
Quant Method : C:\MSDCHEM\1\METHODS\PAH GWM QUANT SIM 03-20-2013.M
Quant Title : Semi-Volatile Compounds HP-GCMS 5973-B
QLast Update : Mon Apr 01 08:43:20 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : Z:\MSDCHEM\1\DATA\APR 13\01APR13-A\
Data File : G37 1303706-003B.D
Acq On : 1 Apr 2013 1:14 pm
Operator : ALICIA HABERLE
Sample : 1303706-003B
Misc : SAMP
ALS Vial : 15 Sample Multiplier: 1

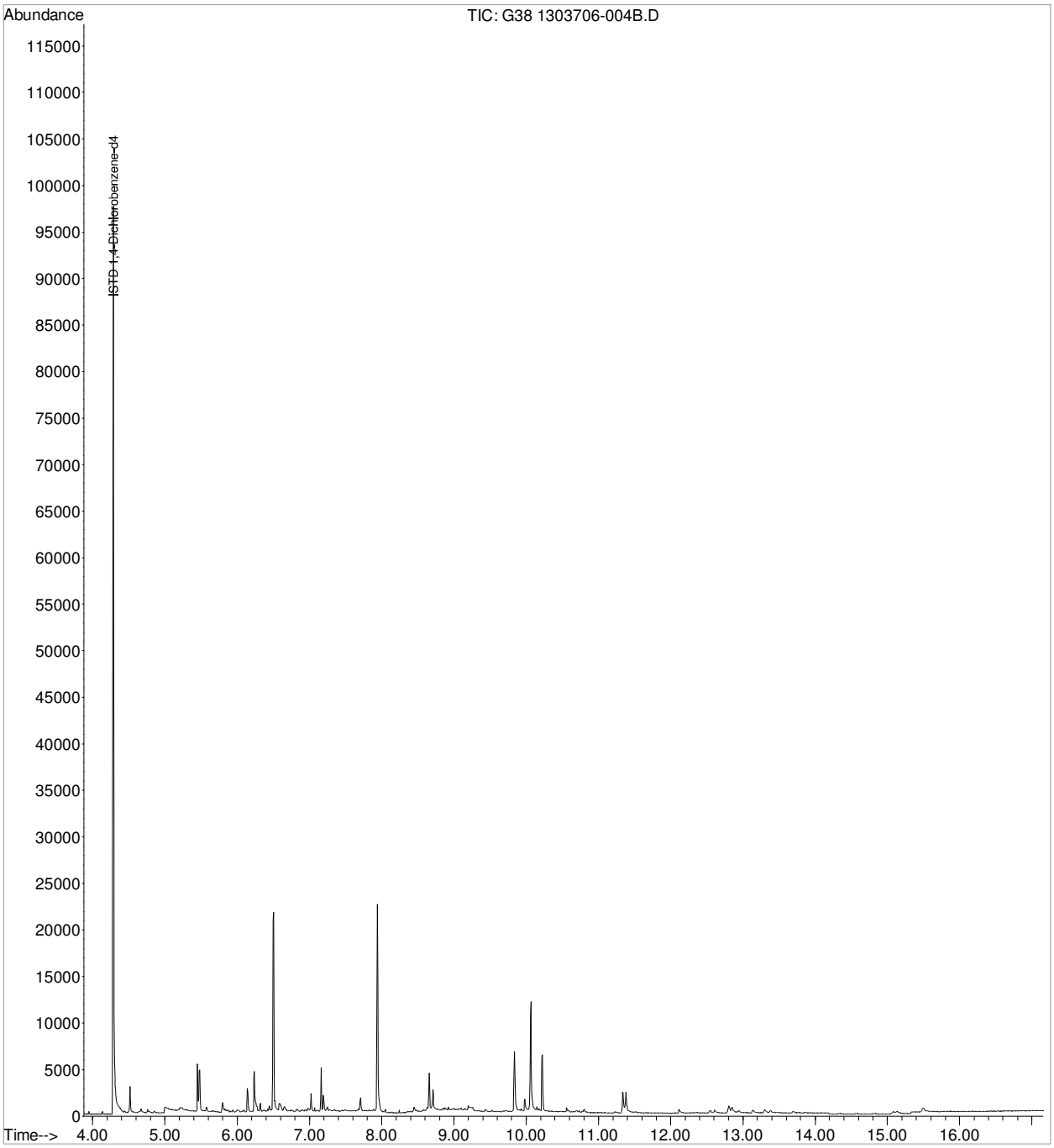
Quant Time: Apr 01 20:07:35 2013
Quant Method : C:\MSDCHEM\1\METHODS\PAH GWM QUANT SIM 03-20-2013.M
Quant Title : Semi-Volatile Compounds HP-GCMS 5973-B
QLast Update : Mon Apr 01 08:43:20 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : Z:\MSDCHEM\1\DATA\APR 13\01APR13-A\
Data File : G38 1303706-004B.D
Acq On : 1 Apr 2013 1:41 pm
Operator : ALICIA HABERLE
Sample : 1303706-004B
Misc : SAMP
ALS Vial : 16 Sample Multiplier: 1

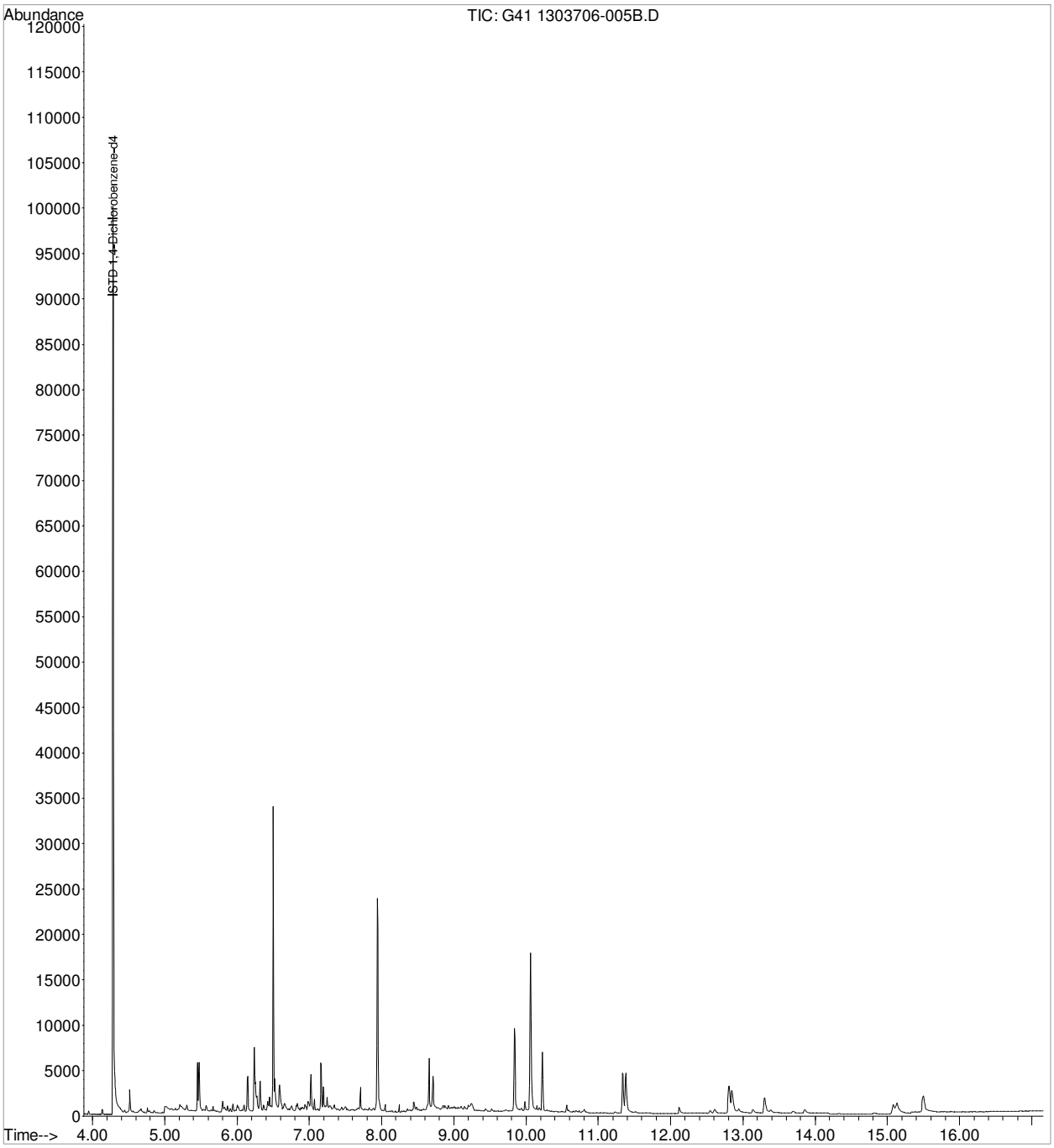
Quant Time: Apr 01 20:08:11 2013
Quant Method : C:\MSDCHEM\1\METHODS\PAH GWM QUANT SIM 03-20-2013.M
Quant Title : Semi-Volatile Compounds HP-GCMS 5973-B
QLast Update : Mon Apr 01 08:43:20 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : Z:\MSDCHEM\1\DATA\APR 13\01APR13-A\
Data File : G41 1303706-005B.D
Acq On : 1 Apr 2013 3:02 pm
Operator : ALICIA HABERLE
Sample : 1303706-005B
Misc : SAMP
ALS Vial : 19 Sample Multiplier: 1

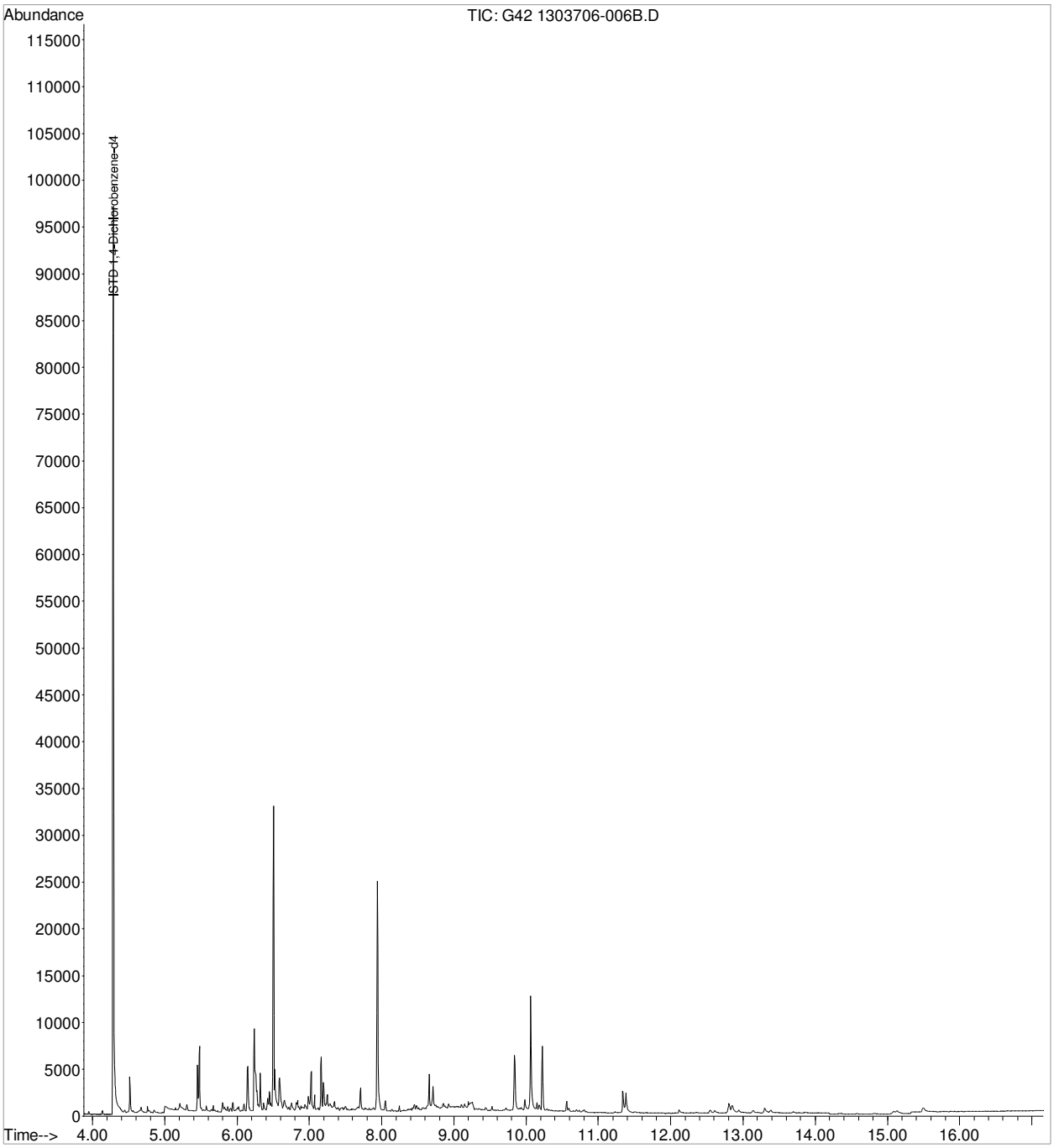
Quant Time: Apr 01 20:13:12 2013
Quant Method : C:\MSDCHEM\1\METHODS\PAH GWM QUANT SIM 03-20-2013.M
Quant Title : Semi-Volatile Compounds HP-GCMS 5973-B
QLast Update : Mon Apr 01 08:43:20 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : Z:\MSDCHEM\1\DATA\APR 13\01APR13-A\
Data File : G42 1303706-006B.D
Acq On : 1 Apr 2013 3:29 pm
Operator : ALICIA HABERLE
Sample : 1303706-006B
Misc : SAMP
ALS Vial : 20 Sample Multiplier: 1

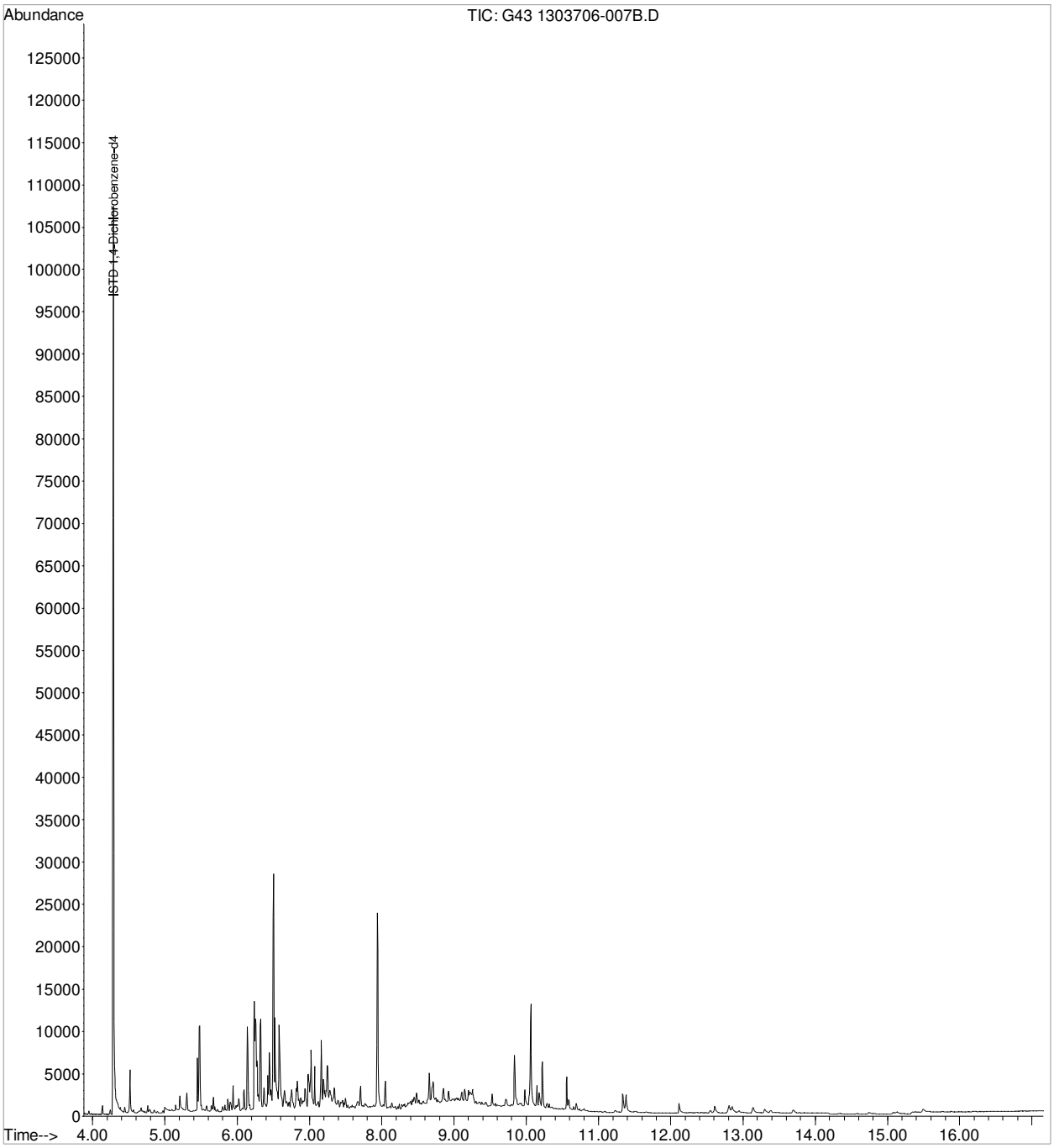
Quant Time: Apr 01 20:13:48 2013
Quant Method : C:\MSDCHEM\1\METHODS\PAH GWM QUANT SIM 03-20-2013.M
Quant Title : Semi-Volatile Compounds HP-GCMS 5973-B
QLast Update : Mon Apr 01 08:43:20 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : Z:\MSDCHEM\1\DATA\APR 13\01APR13-A\
Data File : G43 1303706-007B.D
Acq On : 1 Apr 2013 3:55 pm
Operator : ALICIA HABERLE
Sample : 1303706-007B
Misc : SAMP
ALS Vial : 21 Sample Multiplier: 1

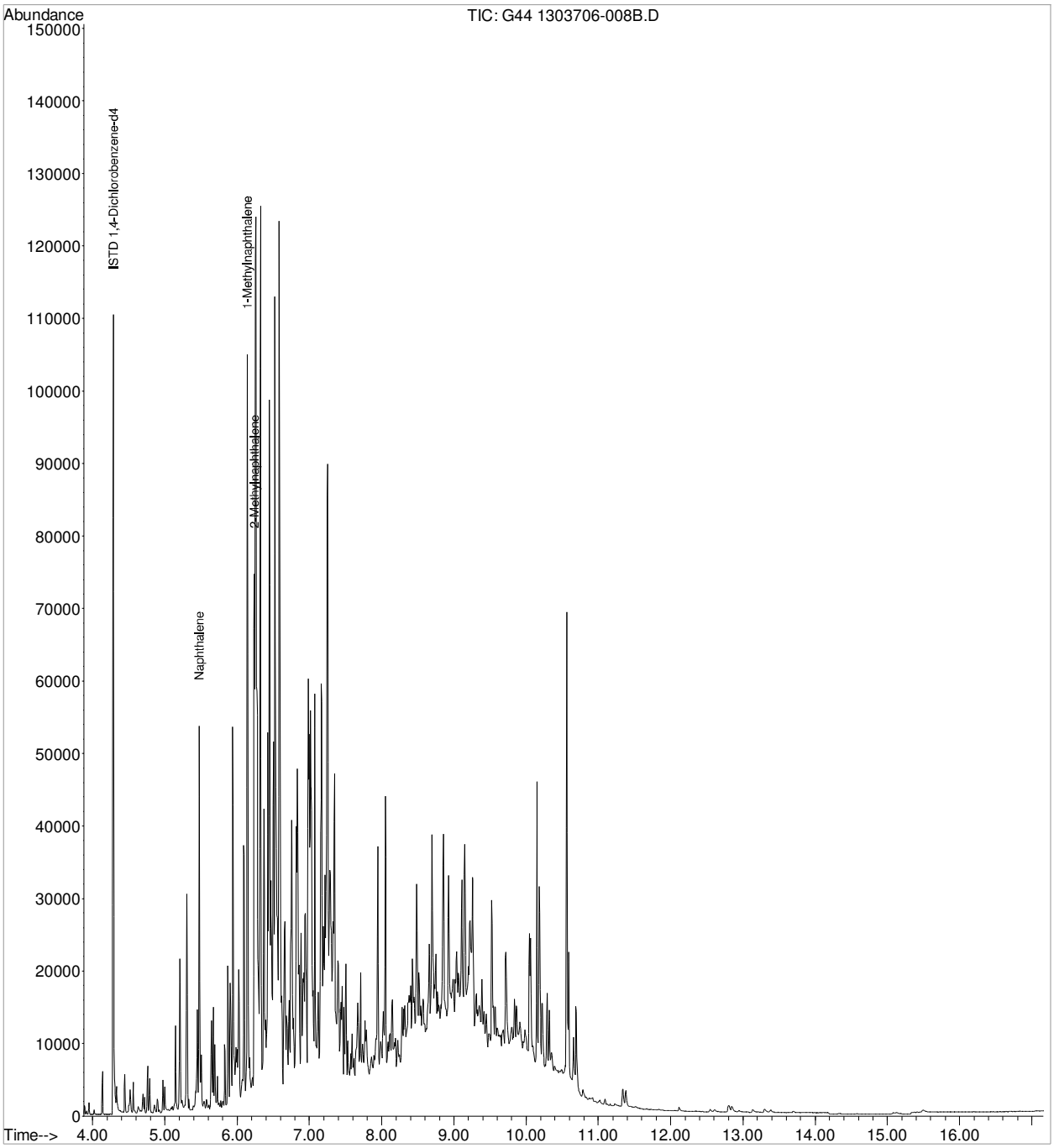
Quant Time: Apr 01 20:14:33 2013
Quant Method : C:\MSDCHEM\1\METHODS\PAH GWM QUANT SIM 03-20-2013.M
Quant Title : Semi-Volatile Compounds HP-GCMS 5973-B
QLast Update : Mon Apr 01 08:43:20 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : Z:\MSDCHEM\1\DATA\APR 13\01APR13-A\
Data File : G44 1303706-008B.D
Acq On : 1 Apr 2013 4:22 pm
Operator : ALICIA HABERLE
Sample : 1303706-008B
Misc : SAMP
ALS Vial : 22 Sample Multiplier: 1

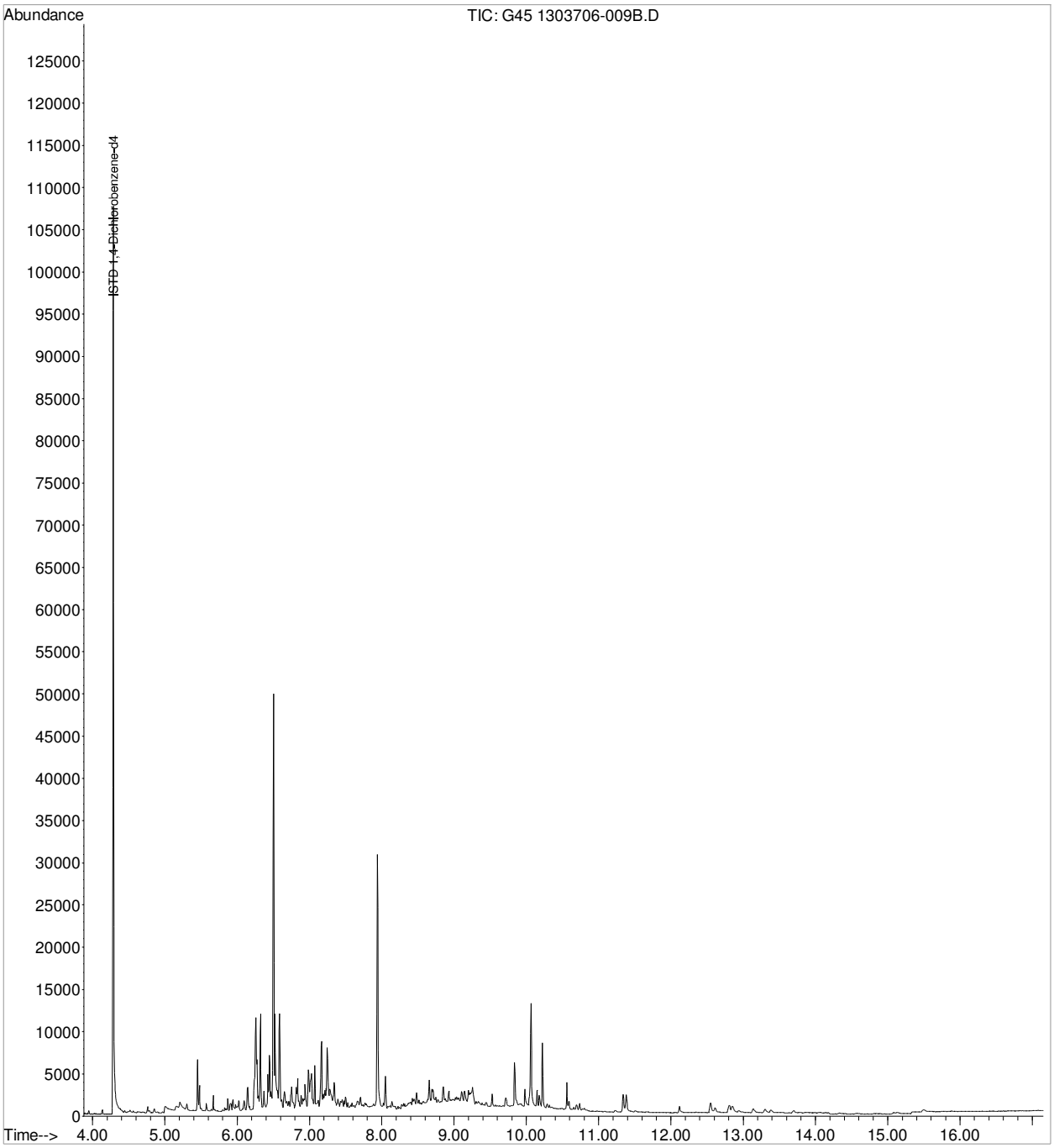
Quant Time: Apr 01 20:15:26 2013
Quant Method : C:\MSDCHEM\1\METHODS\PAH GWM QUANT SIM 03-20-2013.M
Quant Title : Semi-Volatile Compounds HP-GCMS 5973-B
QLast Update : Mon Apr 01 08:43:20 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : Z:\MSDCHEM\1\DATA\APR 13\01APR13-A\
Data File : G45 1303706-009B.D
Acq On : 1 Apr 2013 4:49 pm
Operator : ALICIA HABERLE
Sample : 1303706-009B
Misc : SAMP
ALS Vial : 23 Sample Multiplier: 1

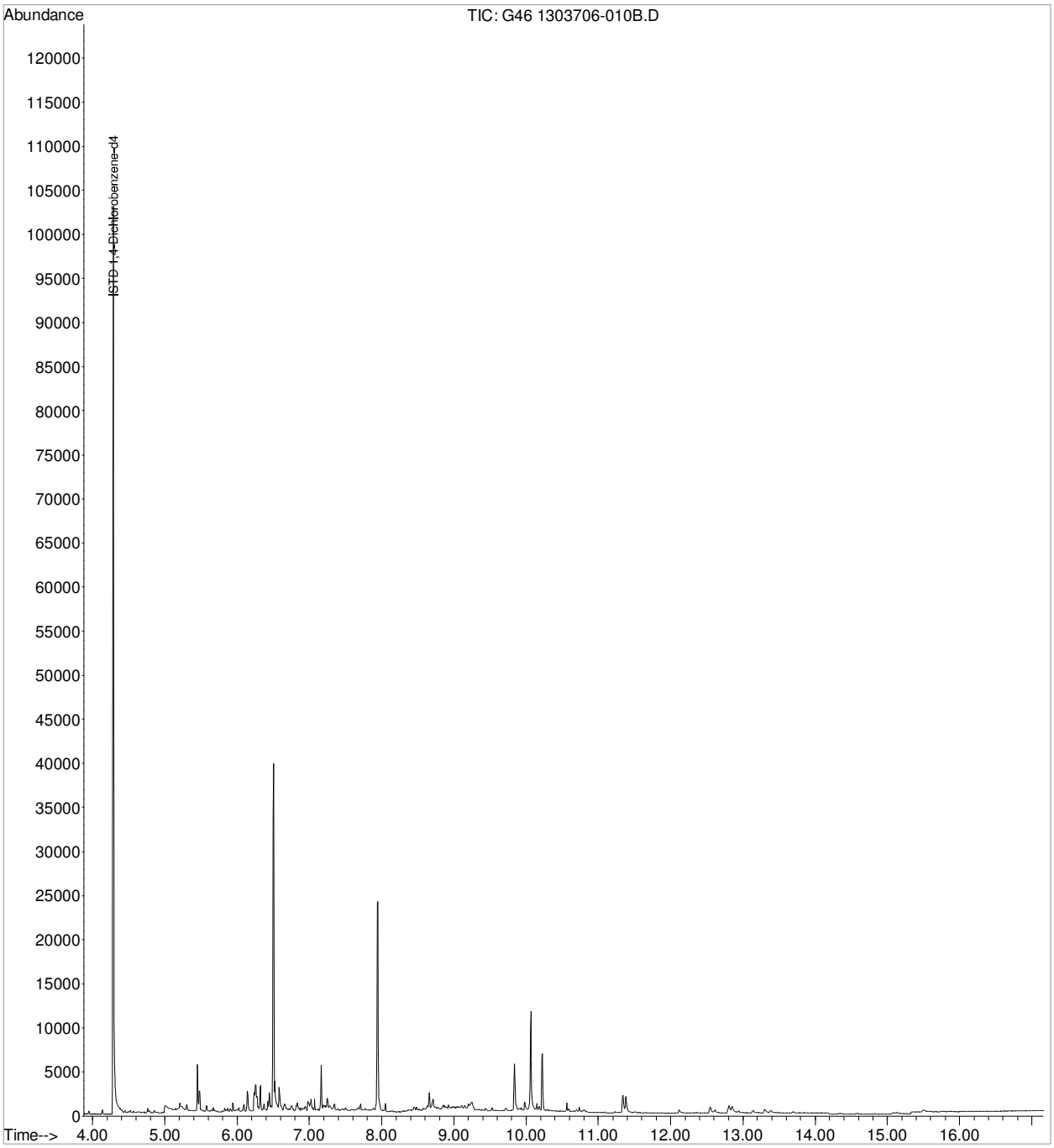
Quant Time: Apr 01 20:15:51 2013
Quant Method : C:\MSDCHEM\1\METHODS\PAH GWM QUANT SIM 03-20-2013.M
Quant Title : Semi-Volatile Compounds HP-GCMS 5973-B
QLast Update : Mon Apr 01 08:43:20 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : Z:\MSDCHEM\1\DATA\APR 13\01APR13-A\
Data File : G46 1303706-010B.D
Acq On : 1 Apr 2013 5:16 pm
Operator : ALICIA HABERLE
Sample : 1303706-010B
Misc : SAMP
ALS Vial : 24 Sample Multiplier: 1

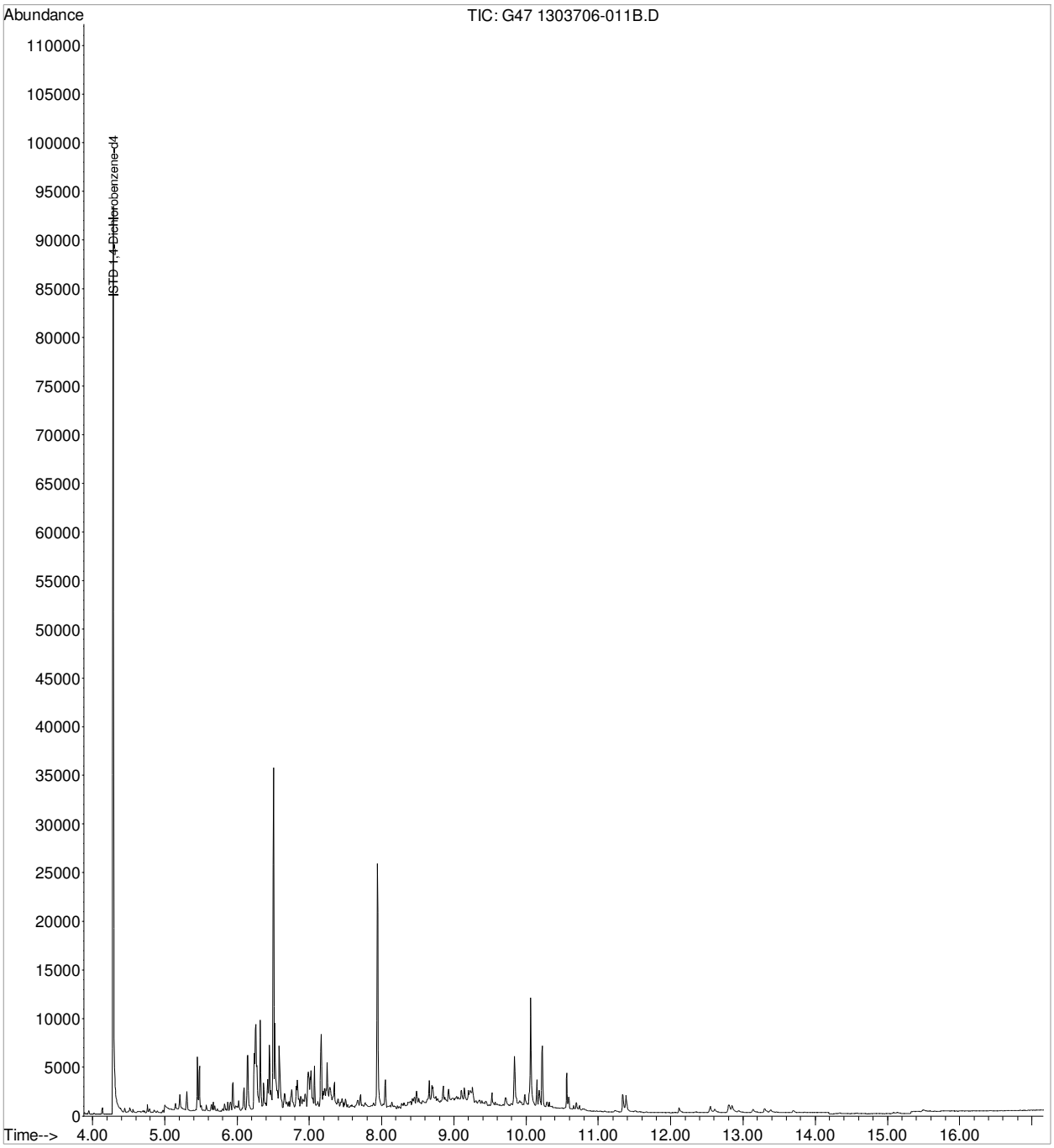
Quant Time: Apr 01 20:16:20 2013
Quant Method : C:\MSDCHEM\1\METHODS\PAH GWM QUANT SIM 03-20-2013.M
Quant Title : Semi-Volatile Compounds HP-GCMS 5973-B
QLast Update : Mon Apr 01 08:43:20 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : Z:\MSDCHEM\1\DATA\APR 13\01APR13-A\
Data File : G47 1303706-011B.D
Acq On : 1 Apr 2013 5:43 pm
Operator : ALICIA HABERLE
Sample : 1303706-011B
Misc : SAMP
ALS Vial : 25 Sample Multiplier: 1

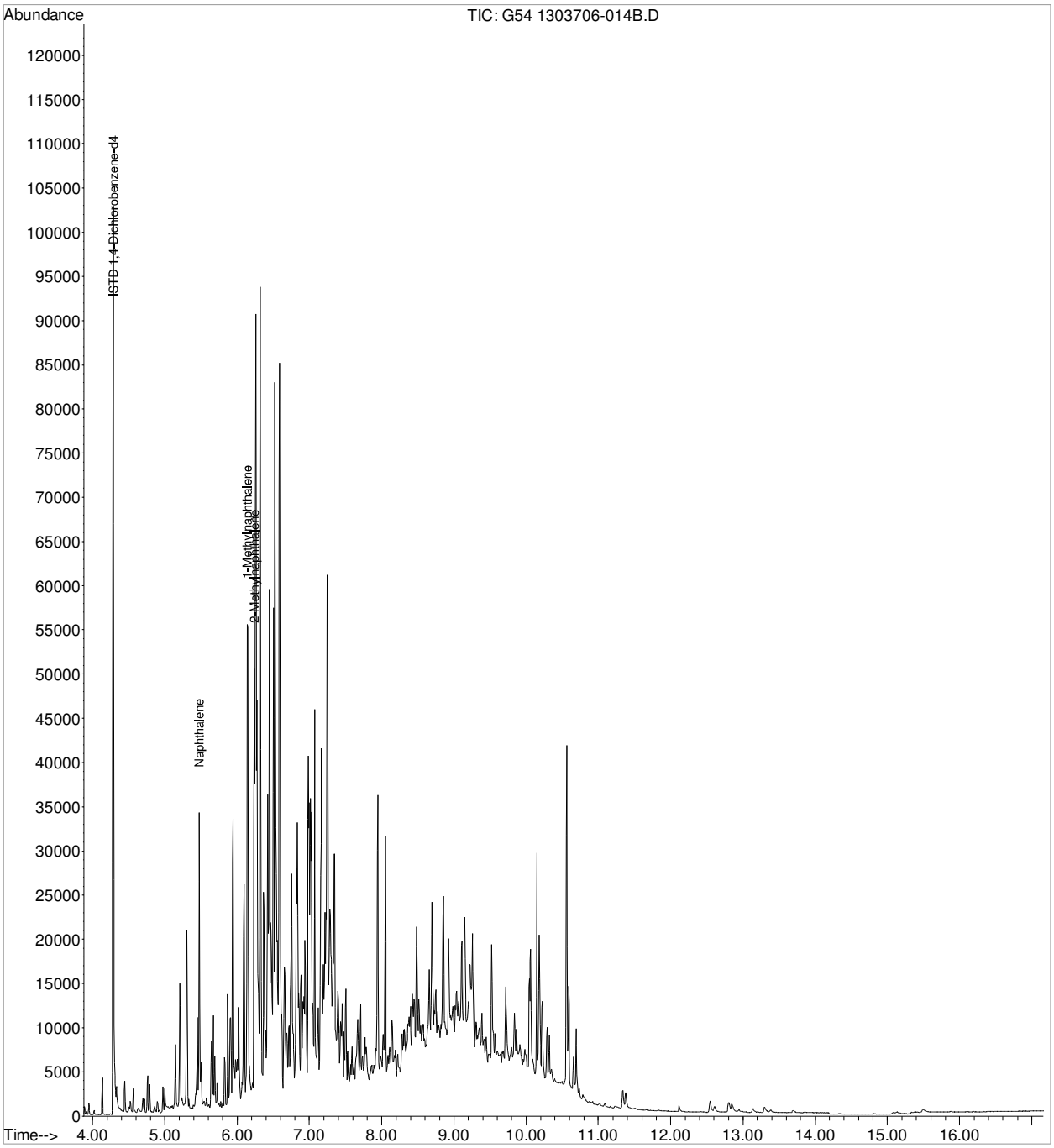
Quant Time: Apr 01 20:16:50 2013
Quant Method : C:\MSDCHEM\1\METHODS\PAH GWM QUANT SIM 03-20-2013.M
Quant Title : Semi-Volatile Compounds HP-GCMS 5973-B
QLast Update : Mon Apr 01 08:43:20 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : Z:\MSDCHEM\1\DATA\APR 13\01APR13-A\
Data File : G54 1303706-014B.D
Acq On : 1 Apr 2013 8:50 pm
Operator : ALICIA HABERLE
Sample : 1303706-014B
Misc : SAMP
ALS Vial : 5 Sample Multiplier: 1

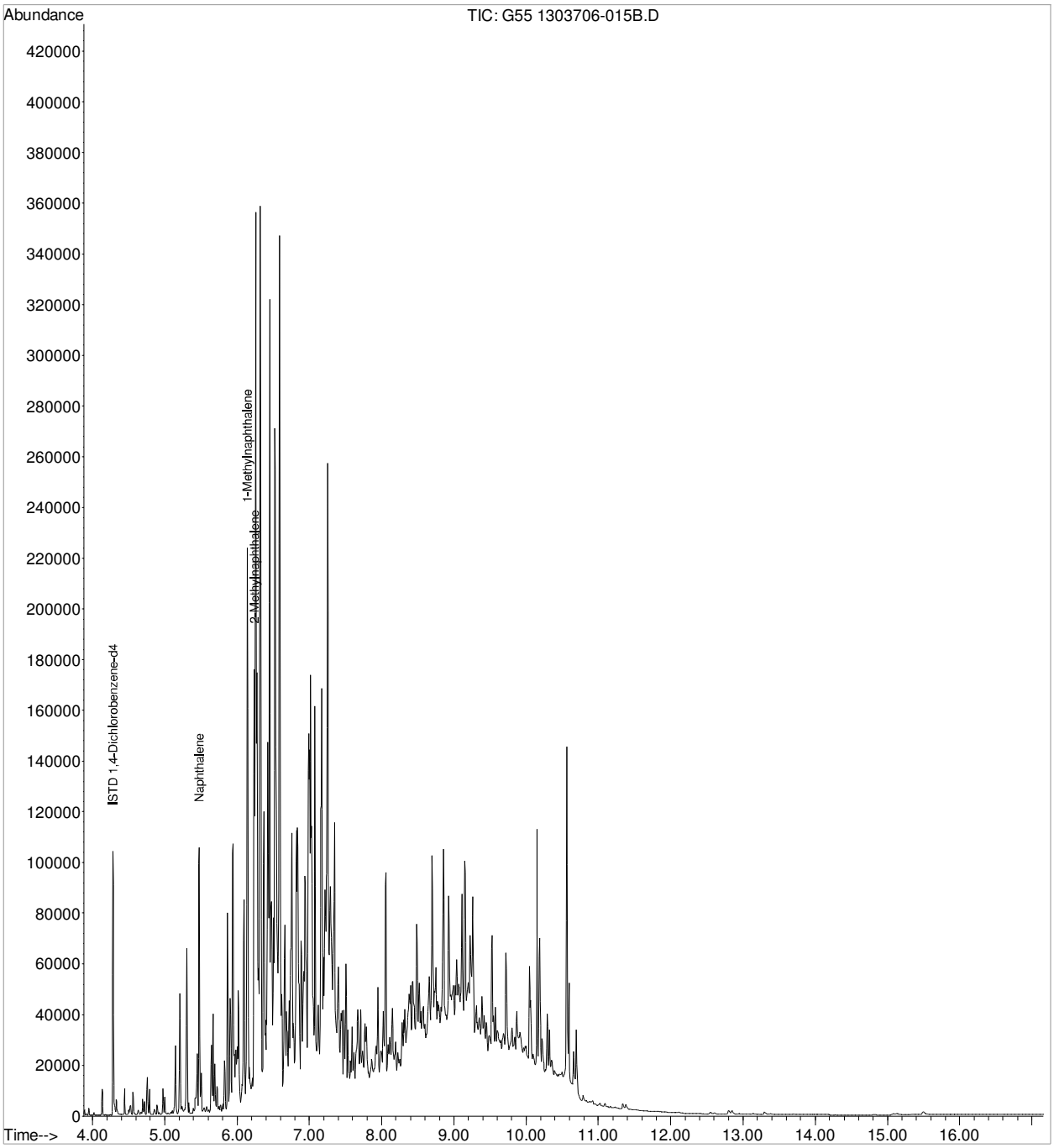
Quant Time: Apr 02 06:17:35 2013
Quant Method : C:\MSDCHEM\1\METHODS\PAH GWM QUANT SIM 03-20-2013.M
Quant Title : Semi-Volatile Compounds HP-GCMS 5973-B
QLast Update : Mon Apr 01 08:43:20 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : Z:\MSDCHEM\1\DATA\APR 13\01APR13-A\
Data File : G55 1303706-015B.D
Acq On : 1 Apr 2013 9:16 pm
Operator : ALICIA HABERLE
Sample : 1303706-015B
Misc : SAMP
ALS Vial : 6 Sample Multiplier: 1

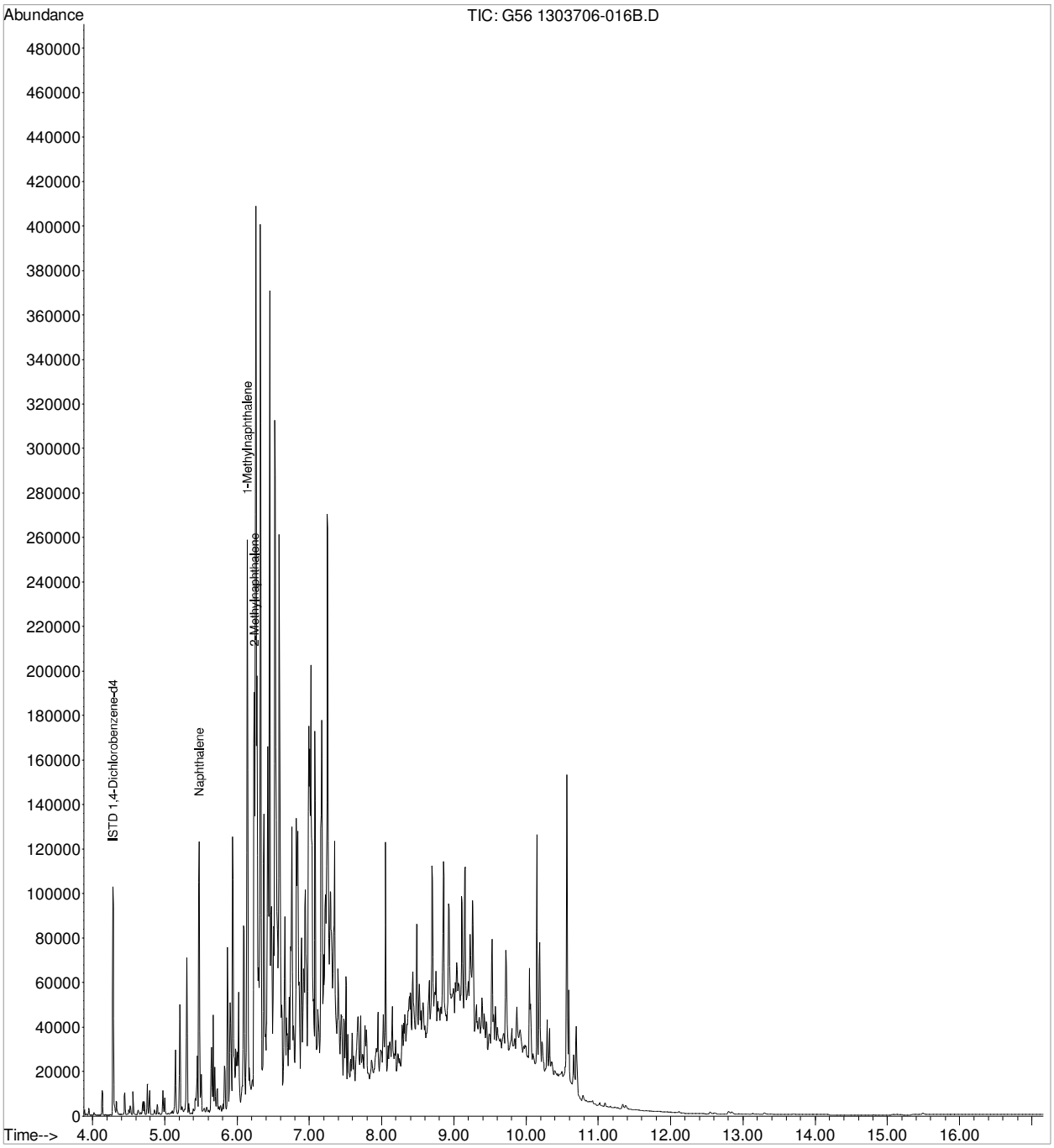
Quant Time: Apr 02 06:19:08 2013
Quant Method : C:\MSDCHEM\1\METHODS\PAH GWM QUANT SIM 03-20-2013.M
Quant Title : Semi-Volatile Compounds HP-GCMS 5973-B
QLast Update : Mon Apr 01 08:43:20 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : Z:\MSDCHEM\1\DATA\APR 13\01APR13-A\
Data File : G56 1303706-016B.D
Acq On : 1 Apr 2013 9:43 pm
Operator : ALICIA HABERLE
Sample : 1303706-016B
Misc : SAMP
ALS Vial : 7 Sample Multiplier: 1

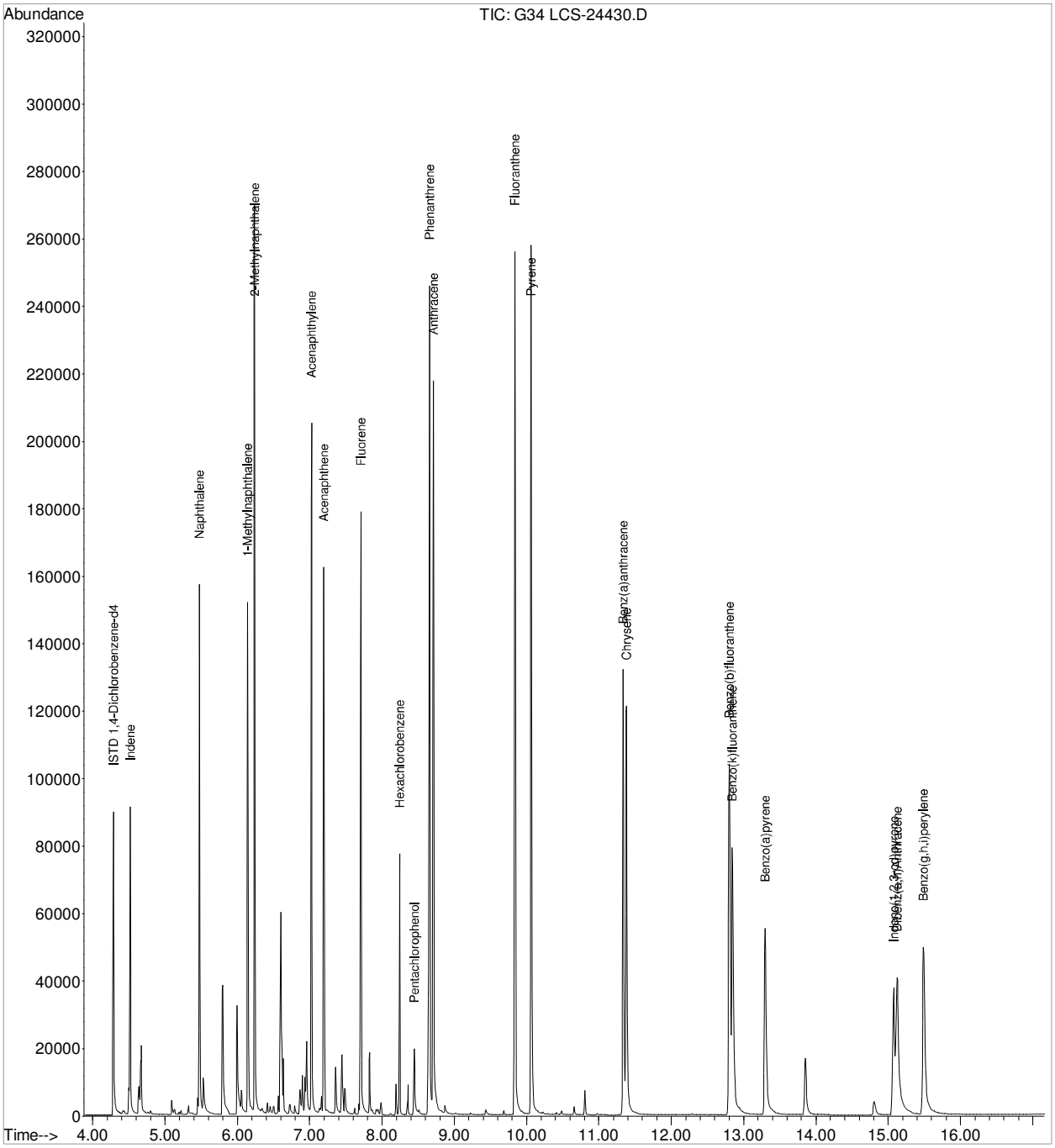
Quant Time: Apr 02 06:19:47 2013
Quant Method : C:\MSDCHEM\1\METHODS\PAH GWM QUANT SIM 03-20-2013.M
Quant Title : Semi-Volatile Compounds HP-GCMS 5973-B
QLast Update : Mon Apr 01 08:43:20 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : Z:\MSDChem\1\DATA\APR 13\01APR13-A\
Data File : G34 LCS-24430.D
Acq On : 1 Apr 2013 11:54 am
Operator : ALICIA HABERLE
Sample : LCS-24430
Misc : LCS 20X
ALS Vial : 12 Sample Multiplier: 1

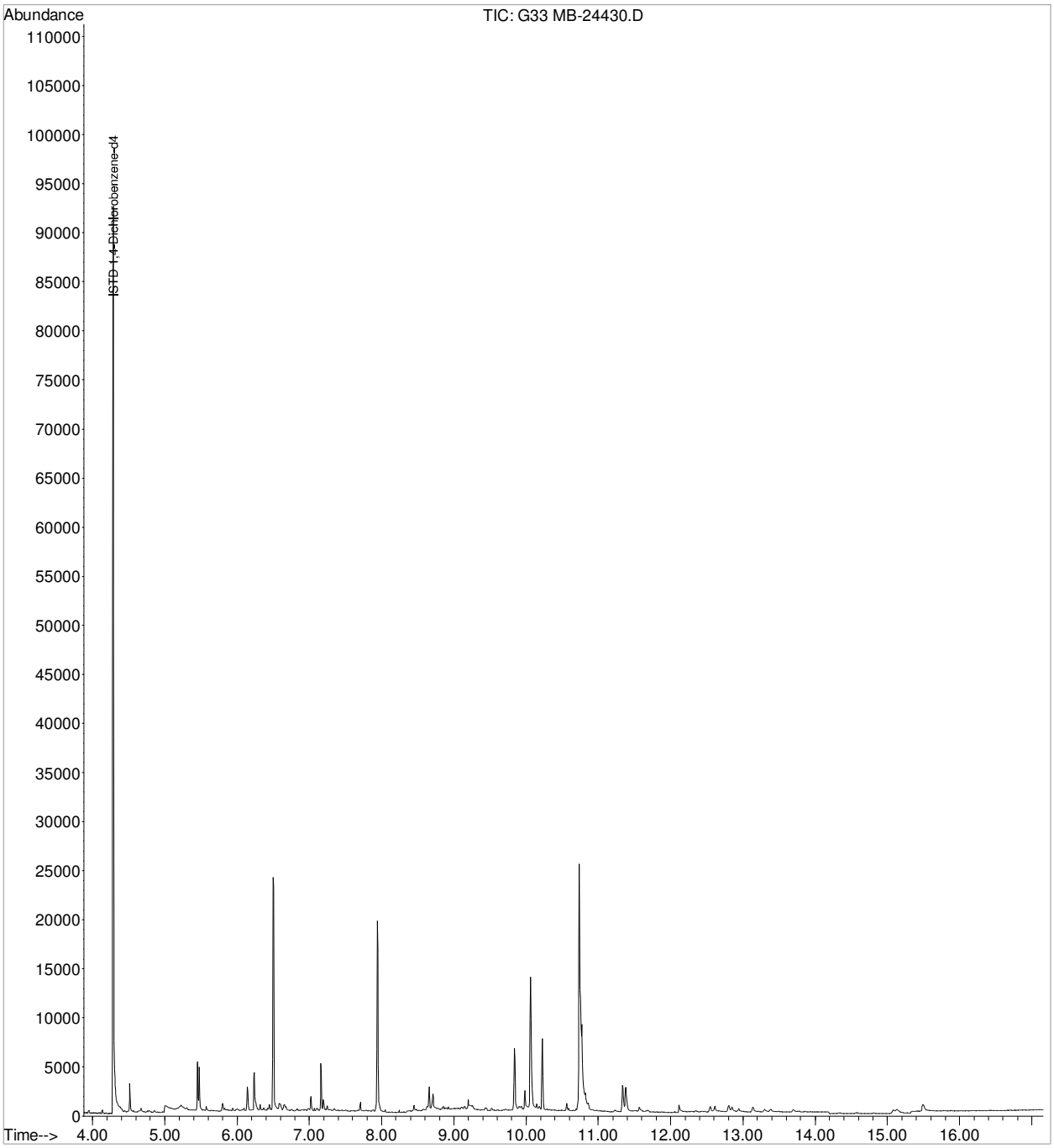
Quant Time: Apr 01 12:46:53 2013
Quant Method : C:\MSDCHEM\1\METHODS\PAH GWM QUANT SIM 03-20-2013.M
Quant Title : Semi-Volatile Compounds HP-GCMS 5973-B
QLast Update : Mon Apr 01 08:43:20 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : Z:\MSDChem\1\DATA\APR 13\01APR13-A\
Data File : G33 MB-24430.D
Acq On : 1 Apr 2013 11:27 am
Operator : ALICIA HABERLE
Sample : MB-24430
Misc : MBLK
ALS Vial : 11 Sample Multiplier: 1

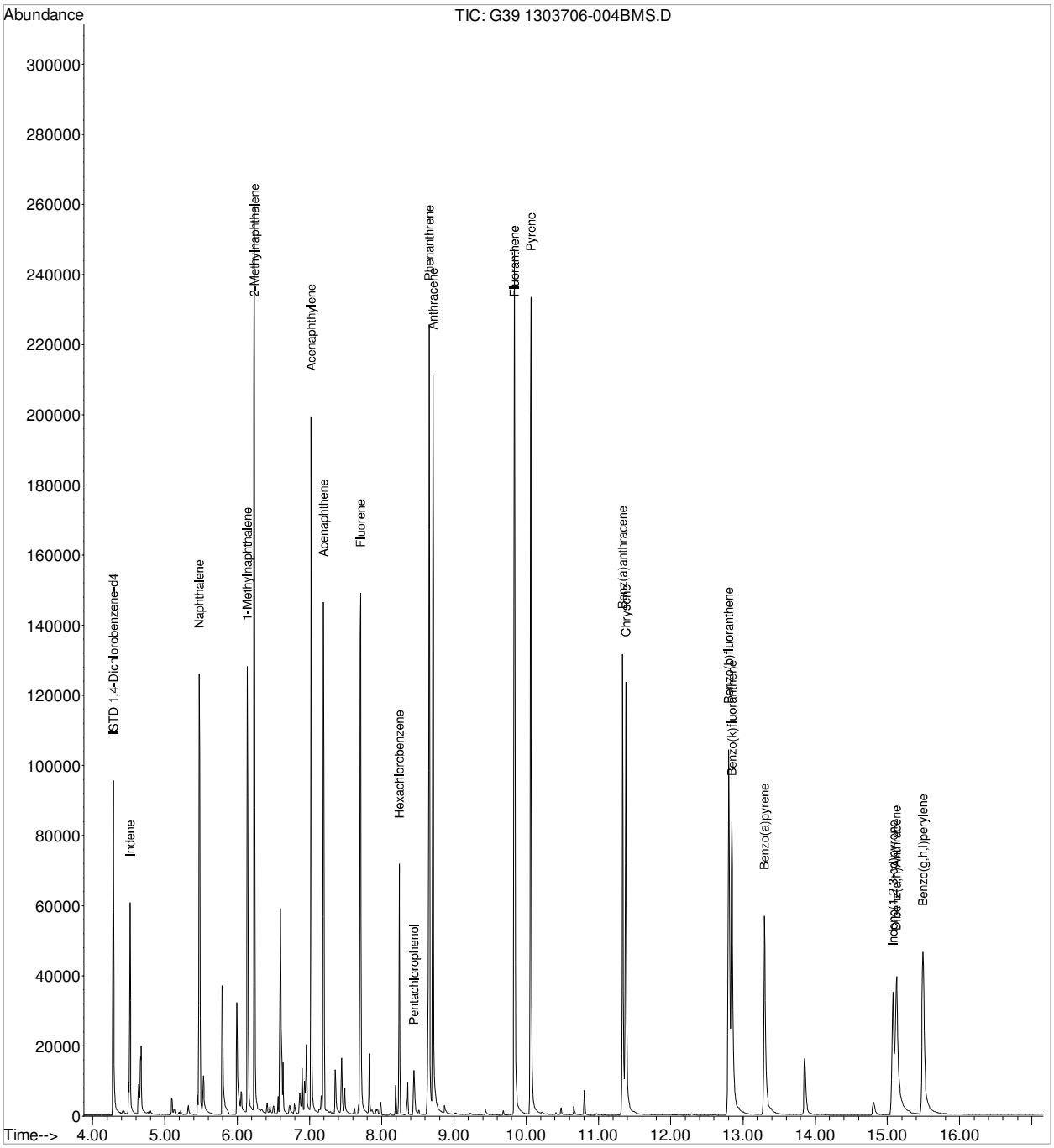
Quant Time: Apr 01 12:47:26 2013
Quant Method : C:\MSDCHEM\1\METHODS\PAH GWM QUANT SIM 03-20-2013.M
Quant Title : Semi-Volatile Compounds HP-GCMS 5973-B
QLast Update : Mon Apr 01 08:43:20 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : Z:\MSDCHEM\1\DATA\APR 13\01APR13-A\
Data File : G39 1303706-004BMS.D
Acq On : 1 Apr 2013 2:08 pm
Operator : ALICIA HABERLE
Sample : 1303706-004BMS
Misc : MS 20X
ALS Vial : 17 Sample Multiplier: 1

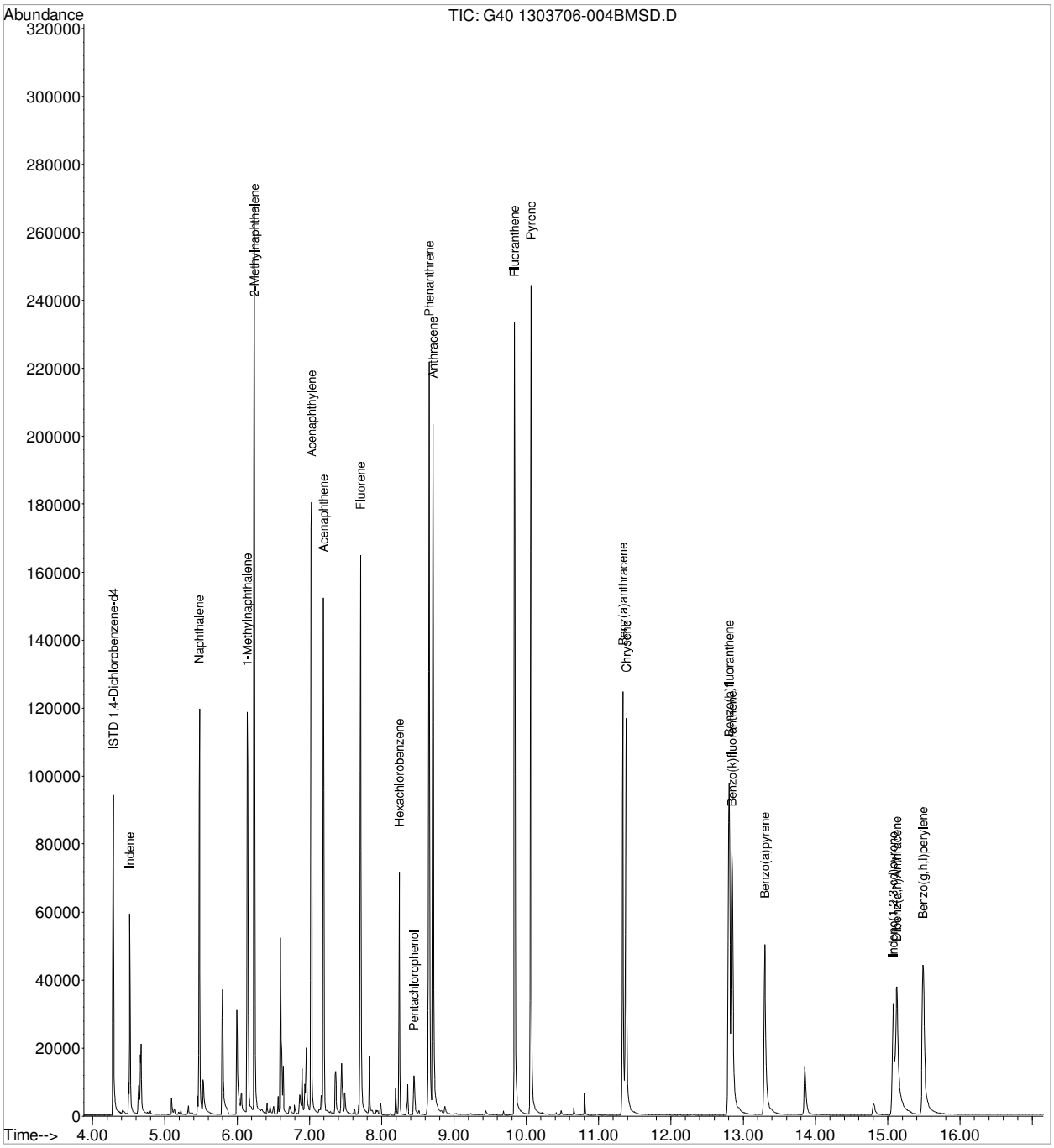
Quant Time: Apr 01 20:08:51 2013
Quant Method : C:\MSDCHEM\1\METHODS\PAH GWM QUANT SIM 03-20-2013.M
Quant Title : Semi-Volatile Compounds HP-GCMS 5973-B
QLast Update : Mon Apr 01 08:43:20 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : Z:\MSDCHEM\1\DATA\APR 13\01APR13-A\
Data File : G40 1303706-004BMSD.D
Acq On : 1 Apr 2013 2:35 pm
Operator : ALICIA HABERLE
Sample : 1303706-004BMSD
Misc : MSD 20X
ALS Vial : 18 Sample Multiplier: 1

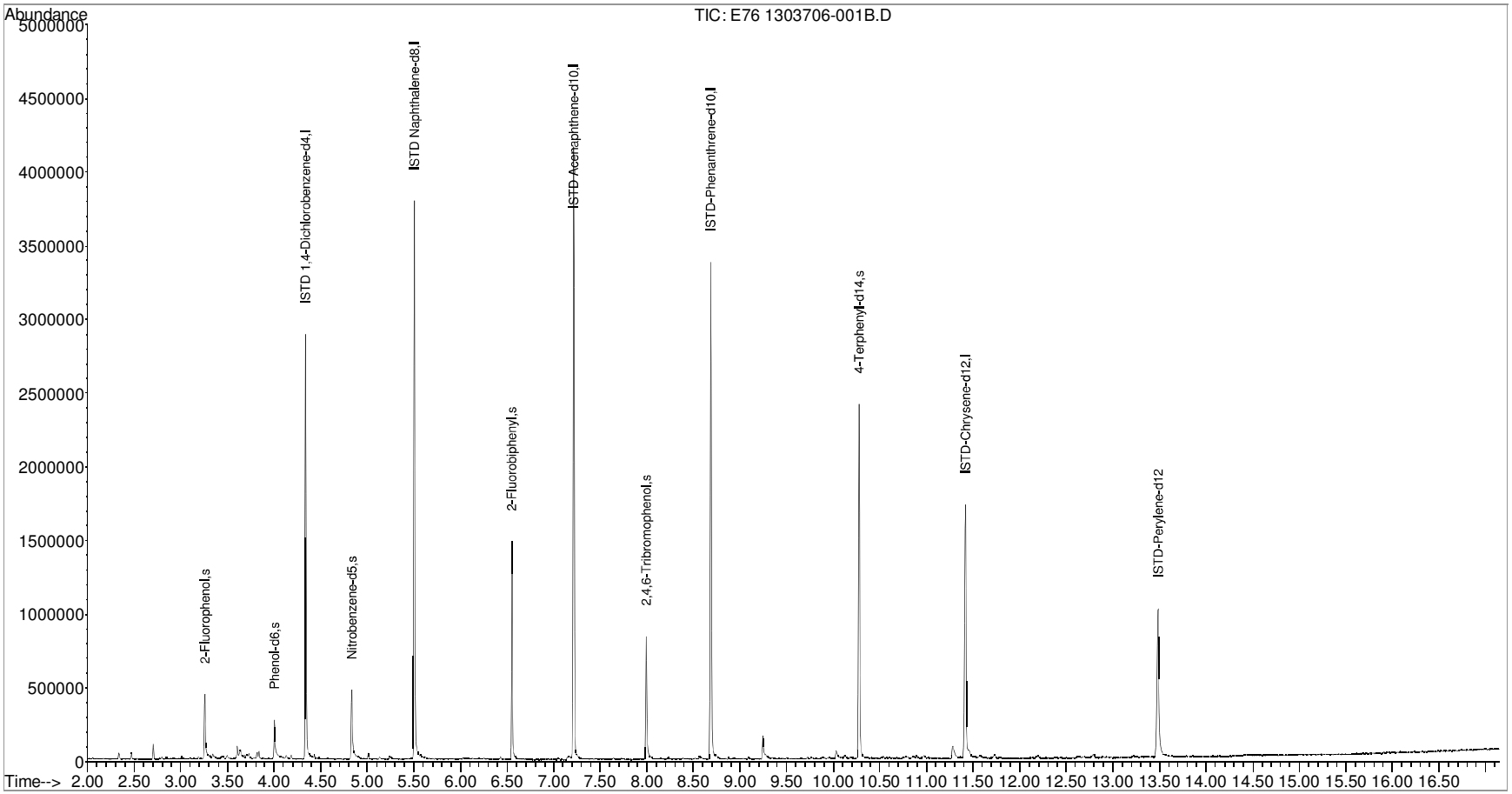
Quant Time: Apr 01 18:04:09 2013
Quant Method : C:\MSDCHEM\1\METHODS\PAH GWM QUANT SIM 03-20-2013.M
Quant Title : Semi-Volatile Compounds HP-GCMS 5973-B
QLast Update : Mon Apr 01 08:43:20 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : Z:\MSDCHEM\1\DATA\MAR 13\29MAR13-A\
Data File : E76 1303706-001B.D
Acq On : 29 Mar 2013 12:36 pm
Operator : ALICIA HABERLE
Sample : 1303706-001B
Misc : SAMP
ALS Vial : 14 Sample Multiplier: 1

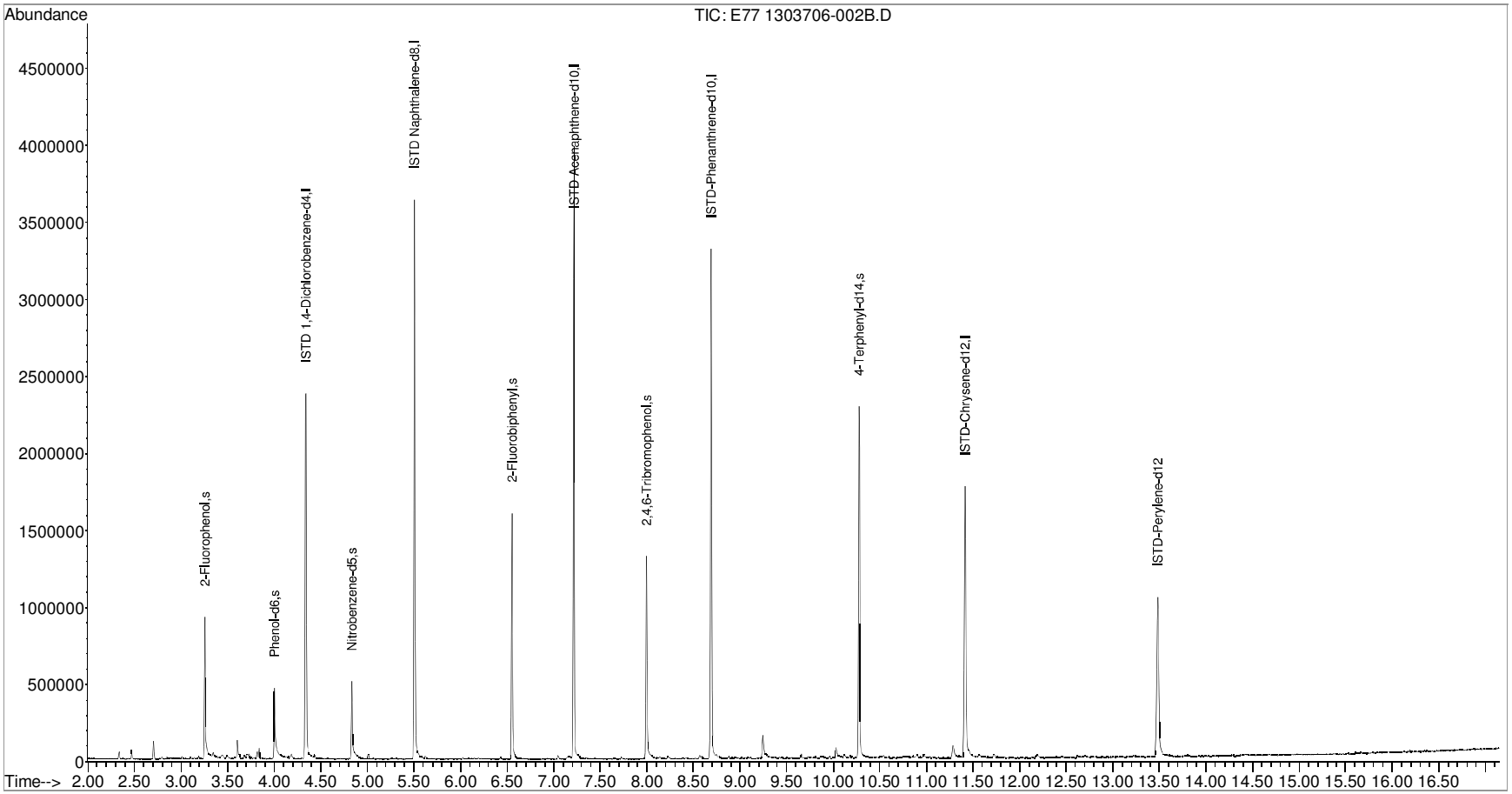
Quant Time: Mar 29 14:32:00 2013
Quant Method : C:\MSDCHEM\1\METHODS\QUANTFULLSV 03-19-13.M
Quant Title : Semi-Volatile Compounds HP-GCMS 5973-B
QLast Update : Fri Mar 29 07:52:23 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : Z:\MSDCHEM\1\DATA\MAR 13\29MAR13-A\
Data File : E77 1303706-002B.D
Acq On : 29 Mar 2013 1:03 pm
Operator : ALICIA HABERLE
Sample : 1303706-002B
Misc : SAMP
ALS Vial : 15 Sample Multiplier: 1

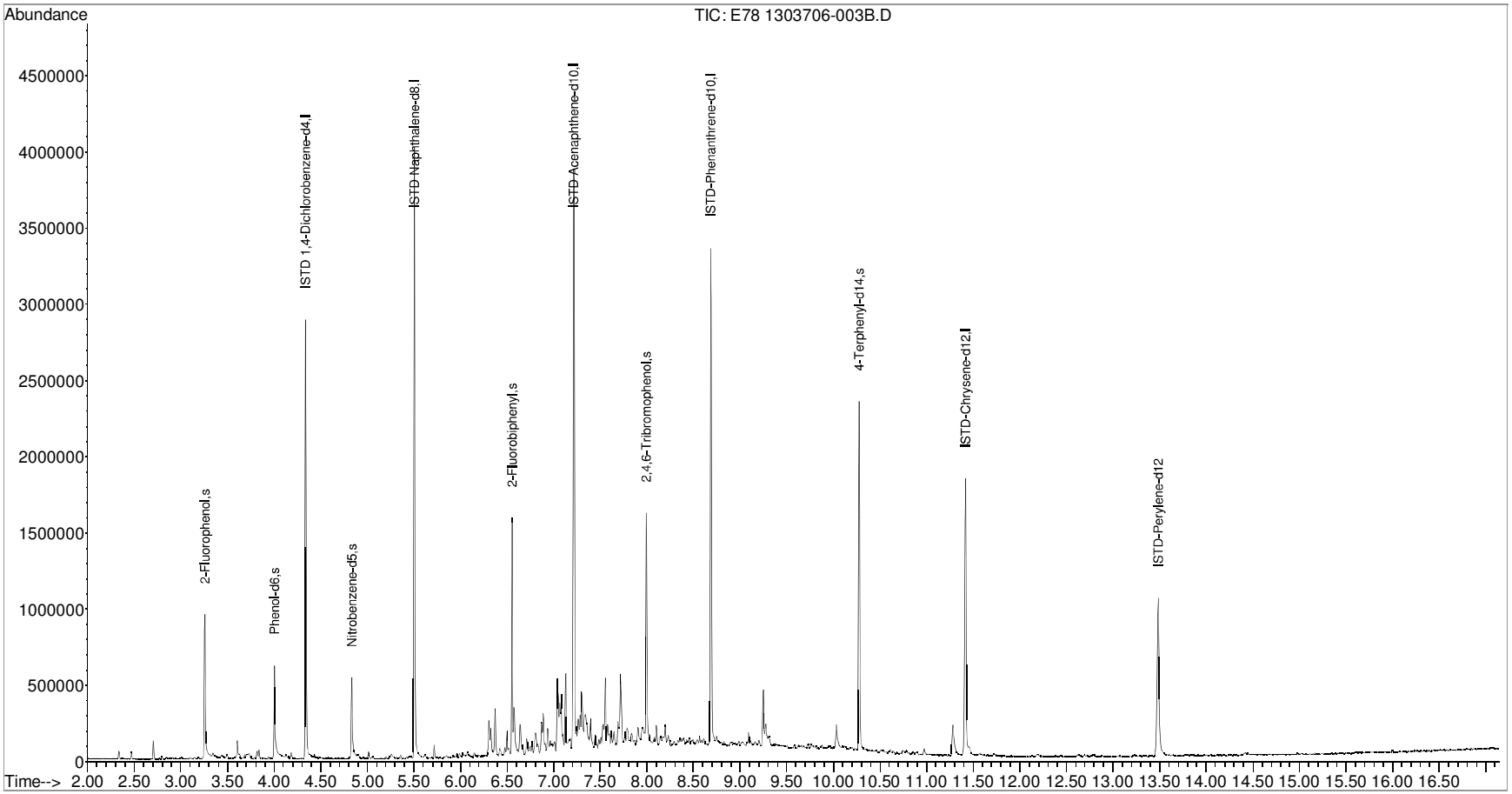
Quant Time: Mar 29 14:32:26 2013
Quant Method : C:\MSDCHEM\1\METHODS\QUANTFULLSV 03-19-13.M
Quant Title : Semi-Volatile Compounds HP-GCMS 5973-B
QLast Update : Fri Mar 29 07:52:23 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : Z:\MSDCHEM\1\DATA\MAR 13\29MAR13-A\
Data File : E78 1303706-003B.D
Acq On : 29 Mar 2013 1:30 pm
Operator : ALICIA HABERLE
Sample : 1303706-003B
Misc : SAMP
ALS Vial : 16 Sample Multiplier: 1

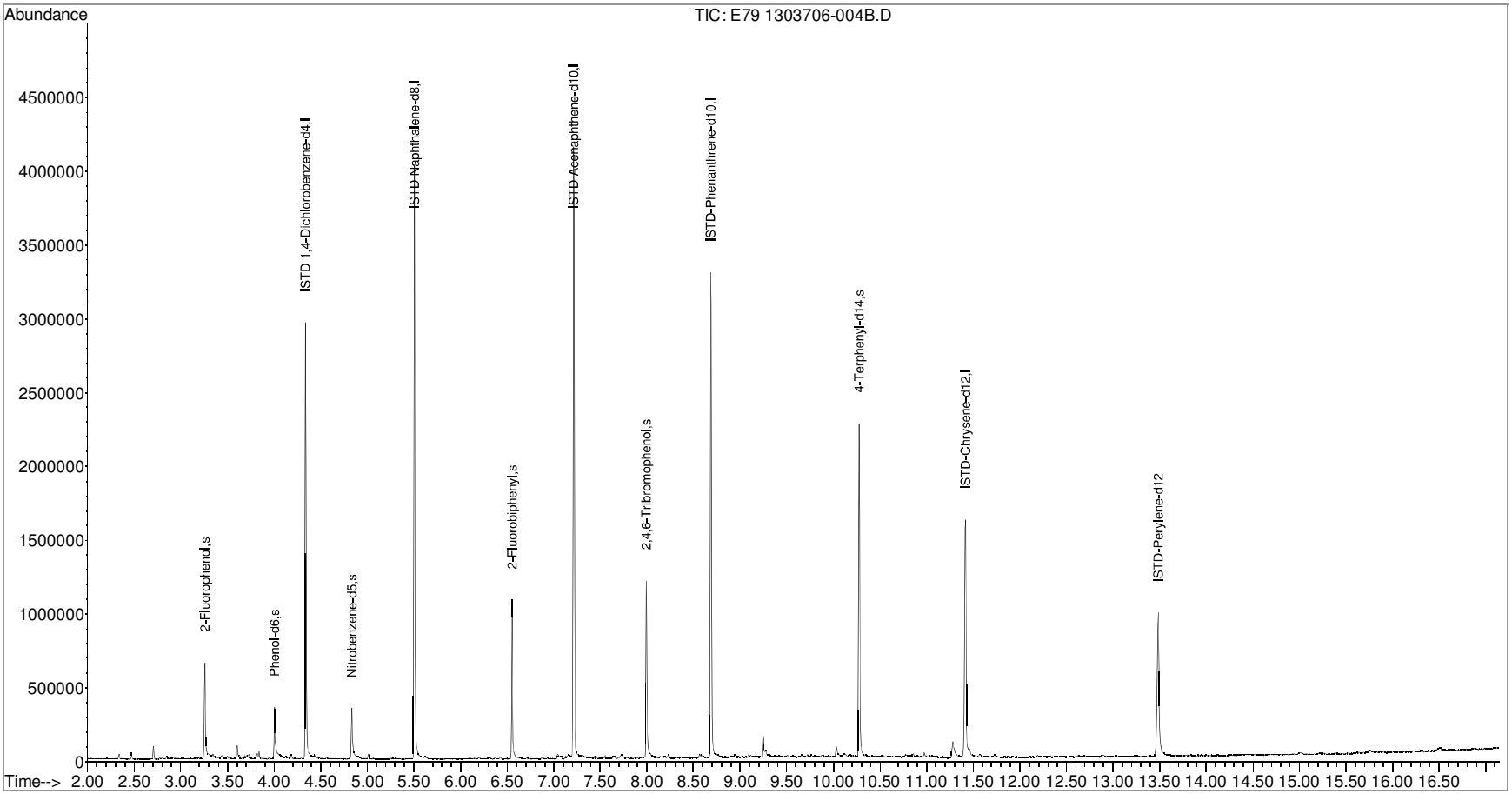
Quant Time: Mar 29 14:33:20 2013
Quant Method : C:\MSDCHEM\1\METHODS\QUANTFULLSV 03-19-13.M
Quant Title : Semi-Volatile Compounds HP-GCMS 5973-B
QLast Update : Fri Mar 29 07:52:23 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : Z:\MSDCHEM\1\DATA\MAR 13\29MAR13-A\
Data File : E79 1303706-004B.D
Acq On : 29 Mar 2013 1:56 pm
Operator : ALICIA HABERLE
Sample : 1303706-004B
Misc : SAMP
ALS Vial : 17 Sample Multiplier: 1

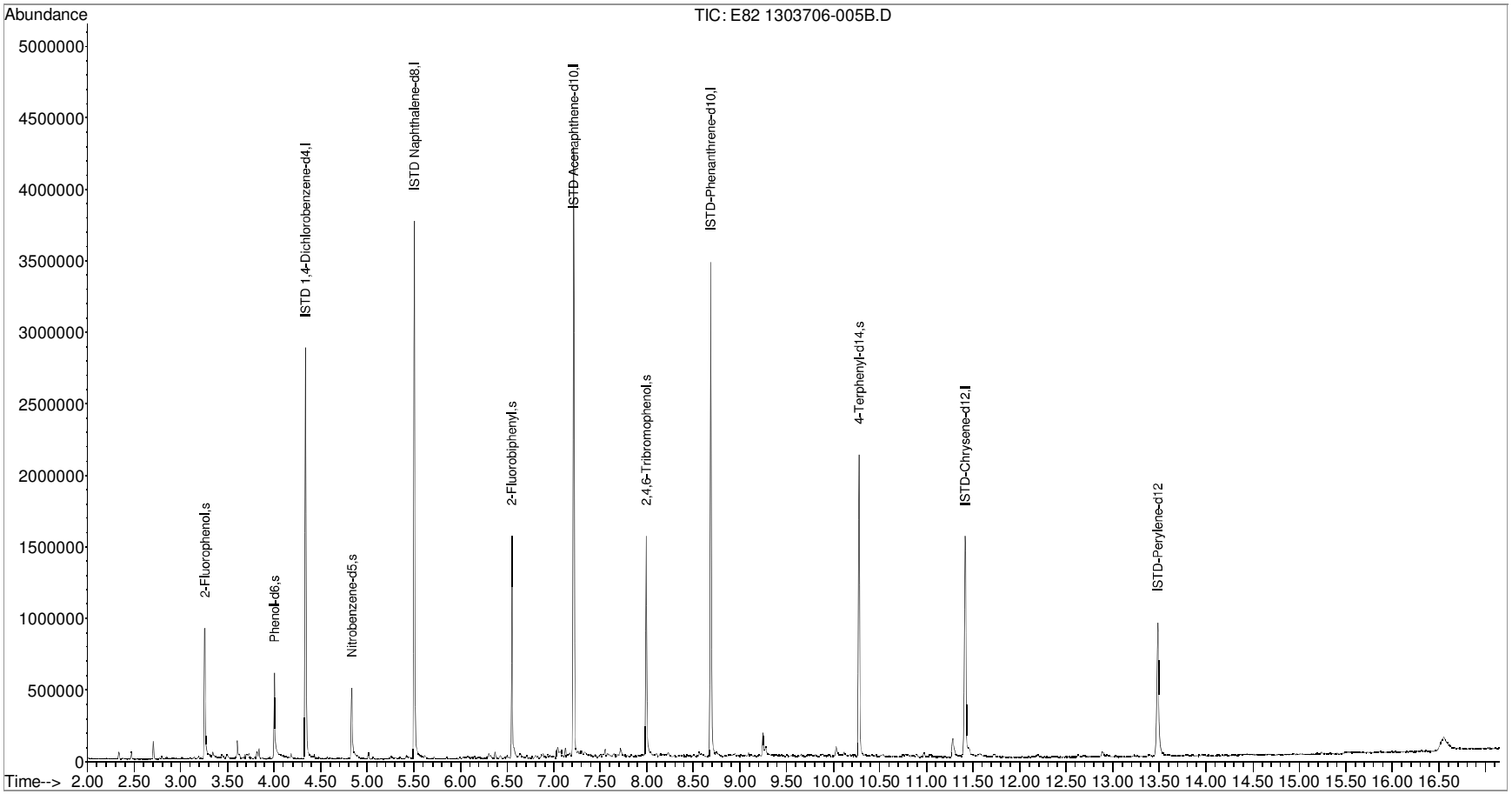
Quant Time: Mar 29 14:33:47 2013
Quant Method : C:\MSDCHEM\1\METHODS\QUANTFULLSV 03-19-13.M
Quant Title : Semi-Volatile Compounds HP-GCMS 5973-B
QLast Update : Fri Mar 29 07:52:23 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : Z:\MSDCHEM\1\DATA\MAR 13\29MAR13-A\
Data File : E82 1303706-005B.D
Acq On : 29 Mar 2013 3:17 pm
Operator : ALICIA HABERLE
Sample : 1303706-005B
Misc : SAMP
ALS Vial : 20 Sample Multiplier: 1

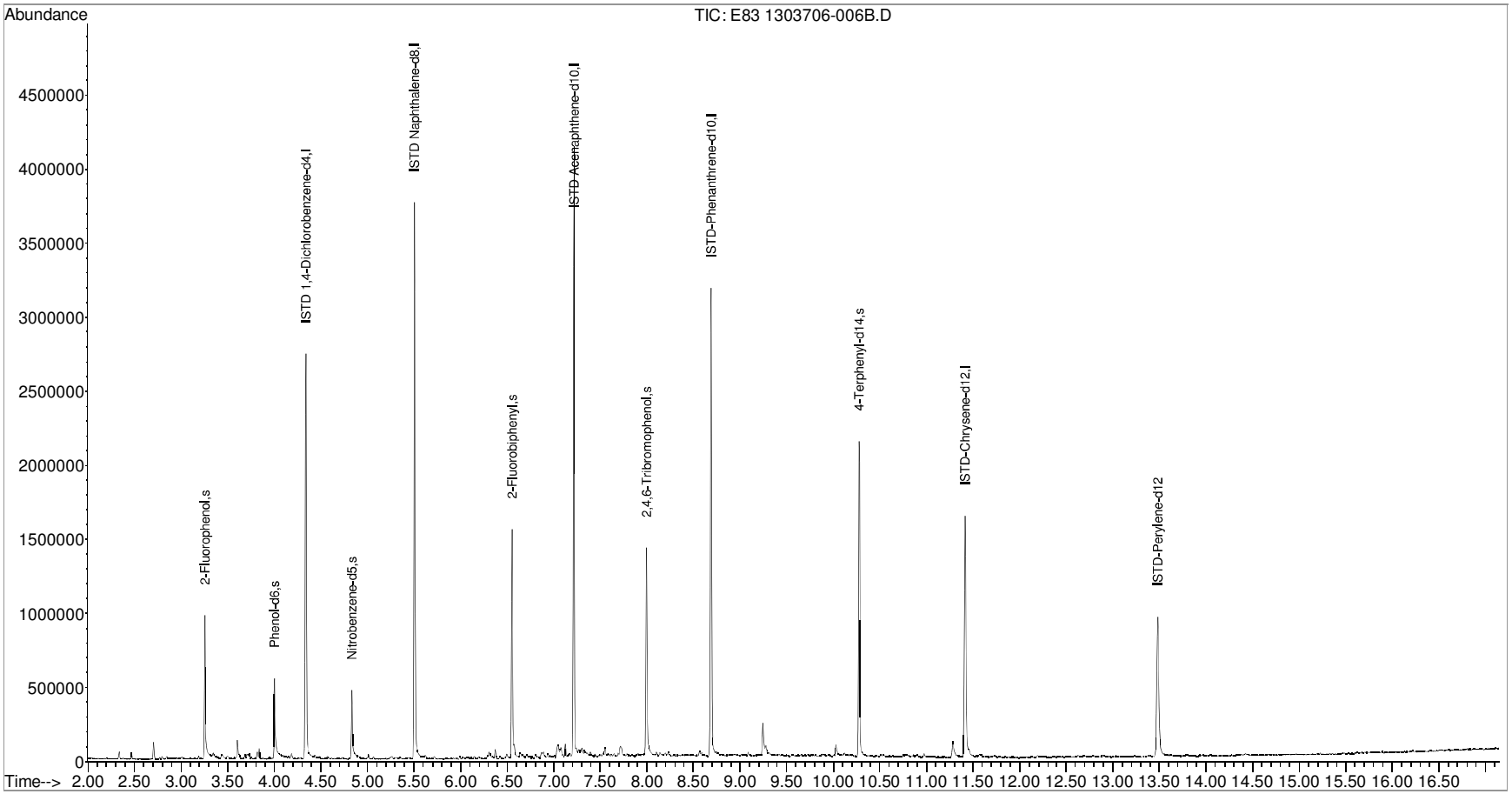
Quant Time: Mar 30 05:45:50 2013
Quant Method : C:\MSDCHEM\1\METHODS\QUANTFULLSV 03-19-13.M
Quant Title : Semi-Volatile Compounds HP-GCMS 5973-B
QLast Update : Fri Mar 29 07:52:23 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : Z:\MSDCHEM\1\DATA\MAR 13\29MAR13-A\
Data File : E83 1303706-006B.D
Acq On : 29 Mar 2013 3:44 pm
Operator : ALICIA HABERLE
Sample : 1303706-006B
Misc : SAMP
ALS Vial : 21 Sample Multiplier: 1

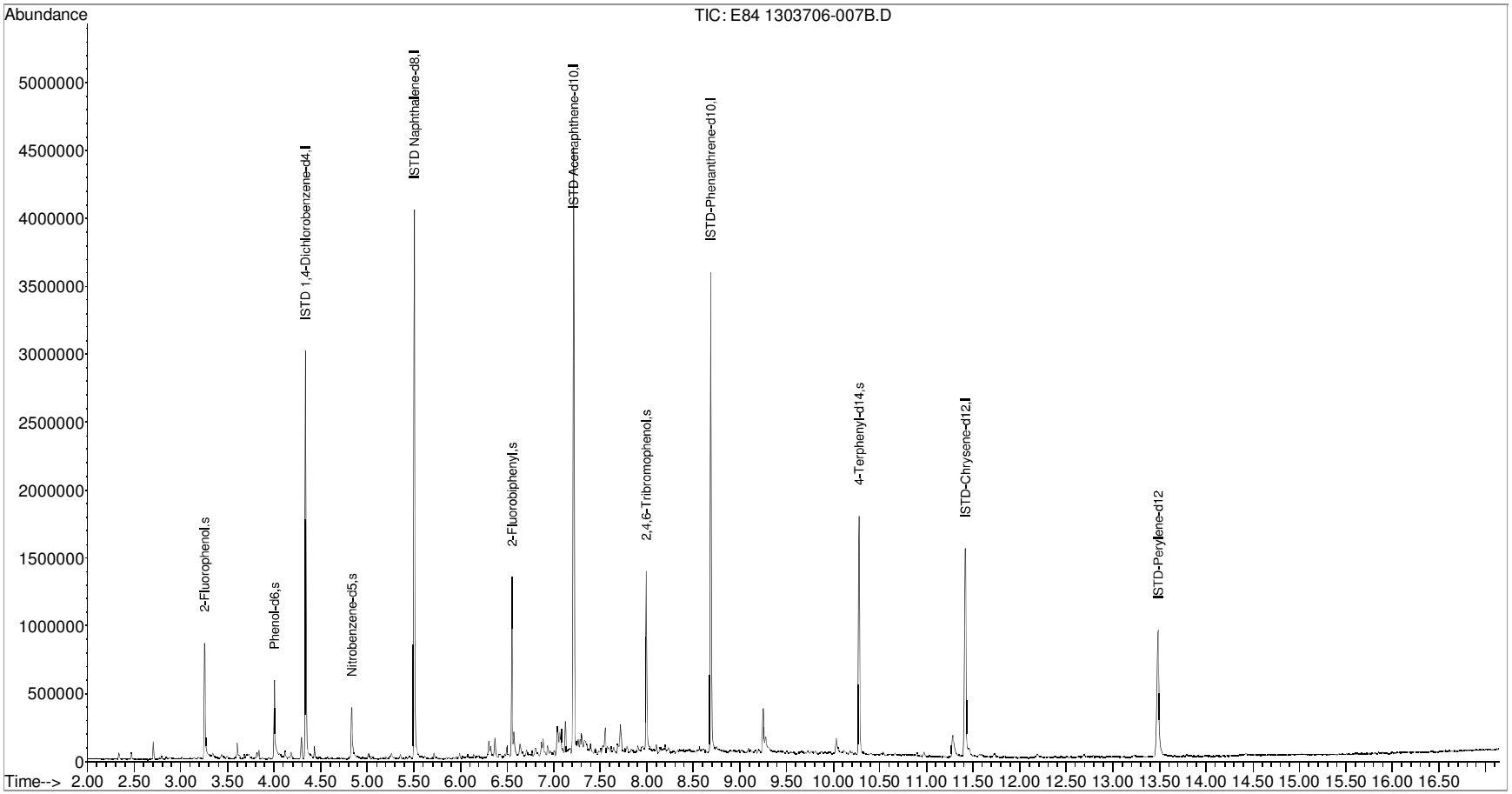
Quant Time: Mar 30 05:46:08 2013
Quant Method : C:\MSDCHEM\1\METHODS\QUANTFULLSV 03-19-13.M
Quant Title : Semi-Volatile Compounds HP-GCMS 5973-B
QLast Update : Fri Mar 29 07:52:23 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : Z:\MSDCHEM\1\DATA\MAR 13\29MAR13-A\
Data File : E84 1303706-007B.D
Acq On : 29 Mar 2013 4:10 pm
Operator : ALICIA HABERLE
Sample : 1303706-007B
Misc : SAMP
ALS Vial : 22 Sample Multiplier: 1

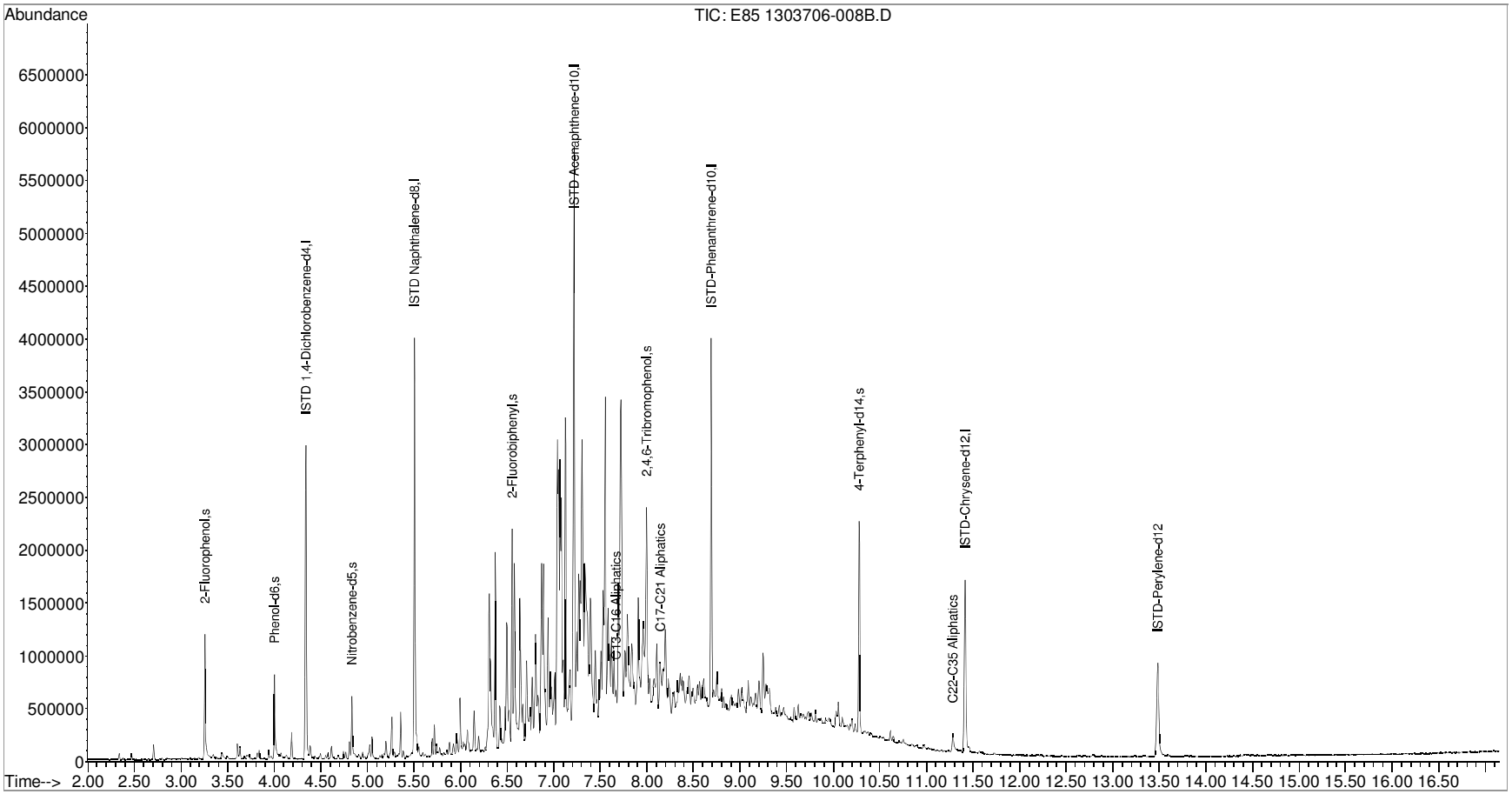
Quant Time: Mar 30 05:47:06 2013
Quant Method : C:\MSDCHEM\1\METHODS\QUANTFULLSV 03-19-13.M
Quant Title : Semi-Volatile Compounds HP-GCMS 5973-B
QLast Update : Fri Mar 29 07:52:23 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : Z:\MSDCHEM\1\DATA\MAR 13\29MAR13-A\
Data File : E85 1303706-008B.D
Acq On : 29 Mar 2013 4:37 pm
Operator : ALICIA HABERLE
Sample : 1303706-008B
Misc : SAMP
ALS Vial : 23 Sample Multiplier: 1

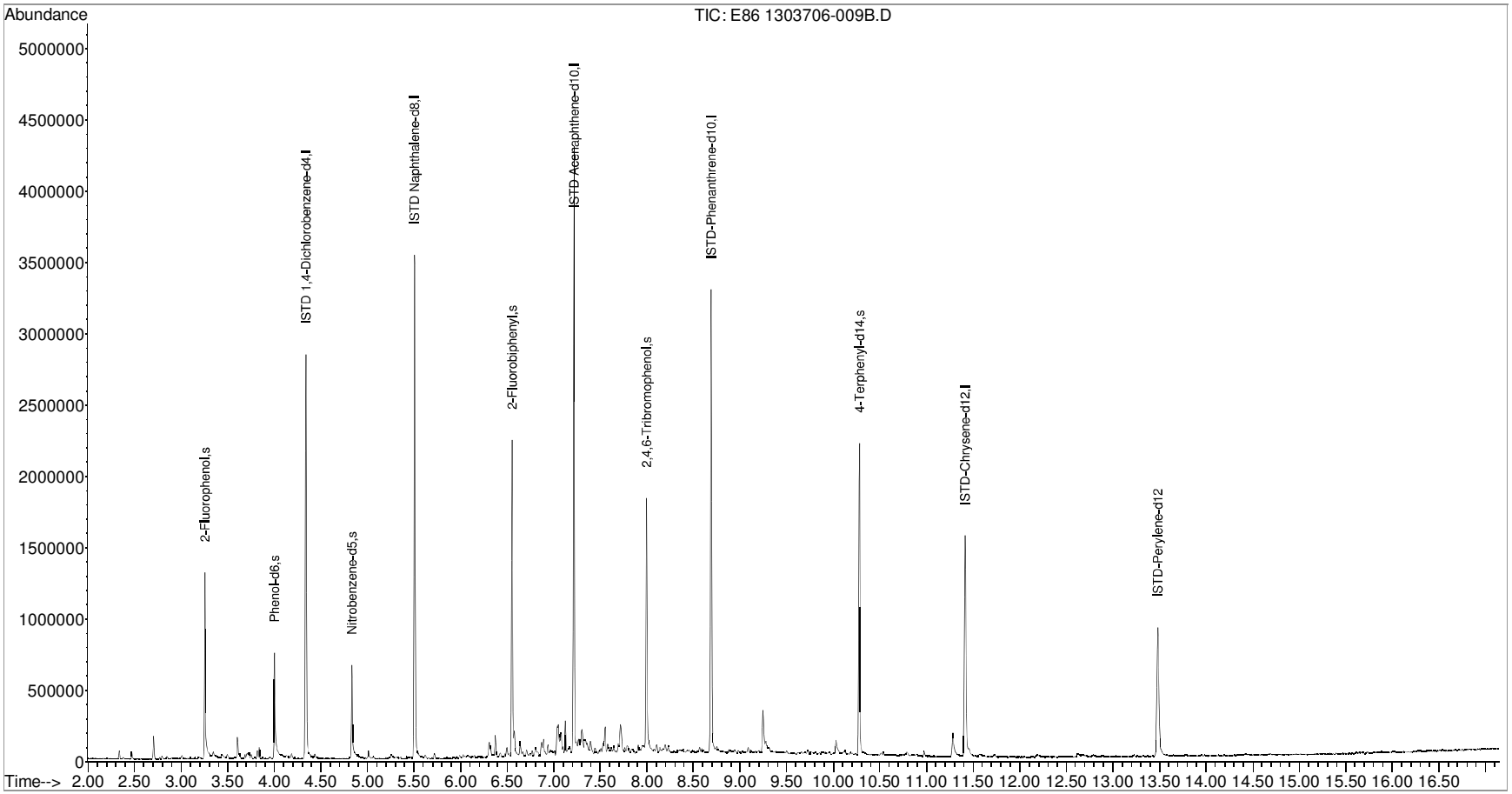
Quant Time: Mar 30 05:47:54 2013
Quant Method : C:\MSDCHEM\1\METHODS\QUANTFULLSV 03-19-13.M
Quant Title : Semi-Volatile Compounds HP-GCMS 5973-B
QLast Update : Fri Mar 29 07:52:23 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : Z:\MSDCHEM\1\DATA\MAR 13\29MAR13-A\
Data File : E86 1303706-009B.D
Acq On : 29 Mar 2013 5:04 pm
Operator : ALICIA HABERLE
Sample : 1303706-009B
Misc : SAMP
ALS Vial : 24 Sample Multiplier: 1

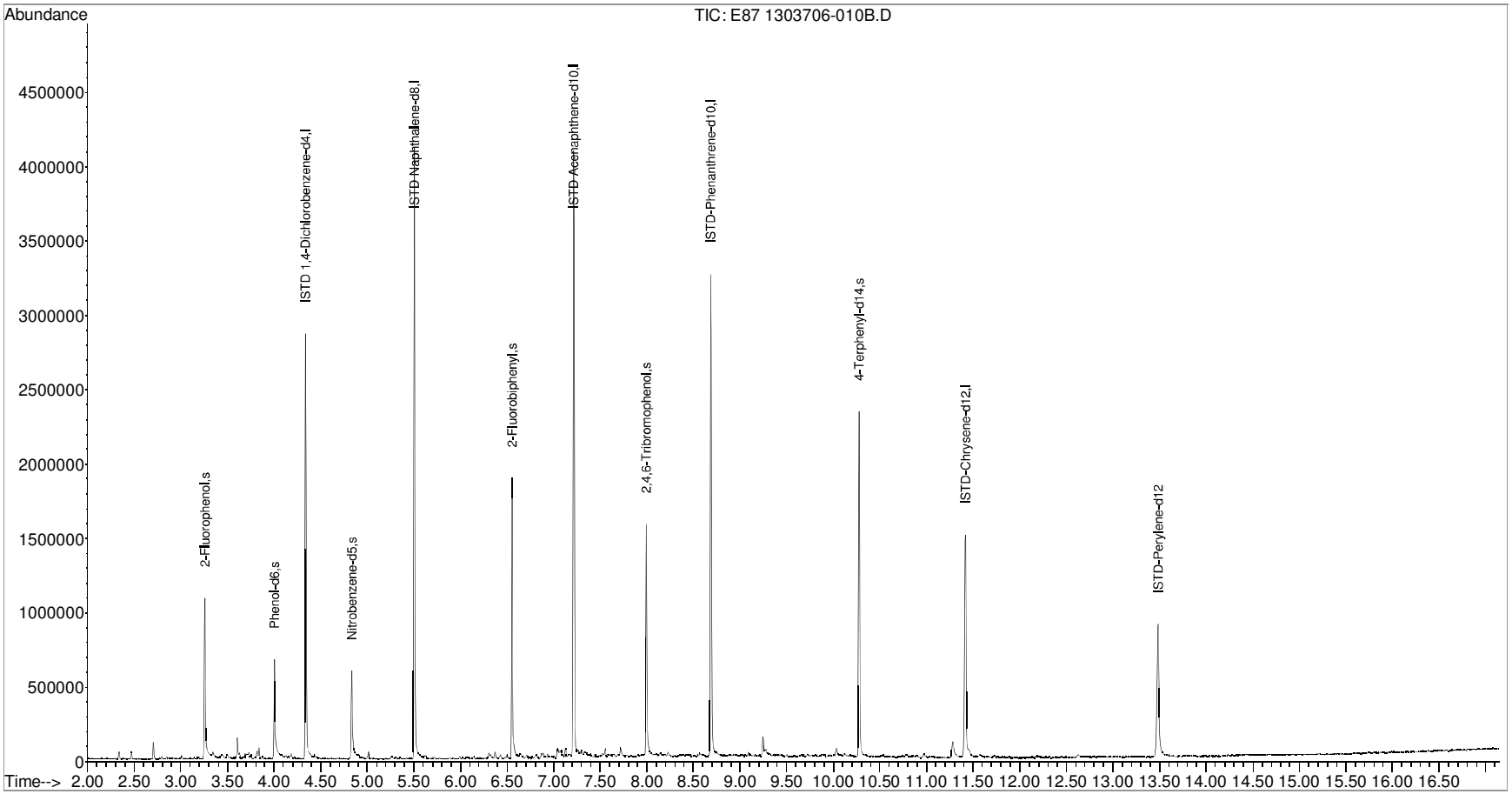
Quant Time: Mar 30 05:48:24 2013
Quant Method : C:\MSDCHEM\1\METHODS\QUANTFULLSV 03-19-13.M
Quant Title : Semi-Volatile Compounds HP-GCMS 5973-B
QLast Update : Fri Mar 29 07:52:23 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : Z:\MSDCHEM\1\DATA\MAR 13\29MAR13-A\
Data File : E87 1303706-010B.D
Acq On : 29 Mar 2013 5:31 pm
Operator : ALICIA HABERLE
Sample : 1303706-010B
Misc : SAMP
ALS Vial : 25 Sample Multiplier: 1

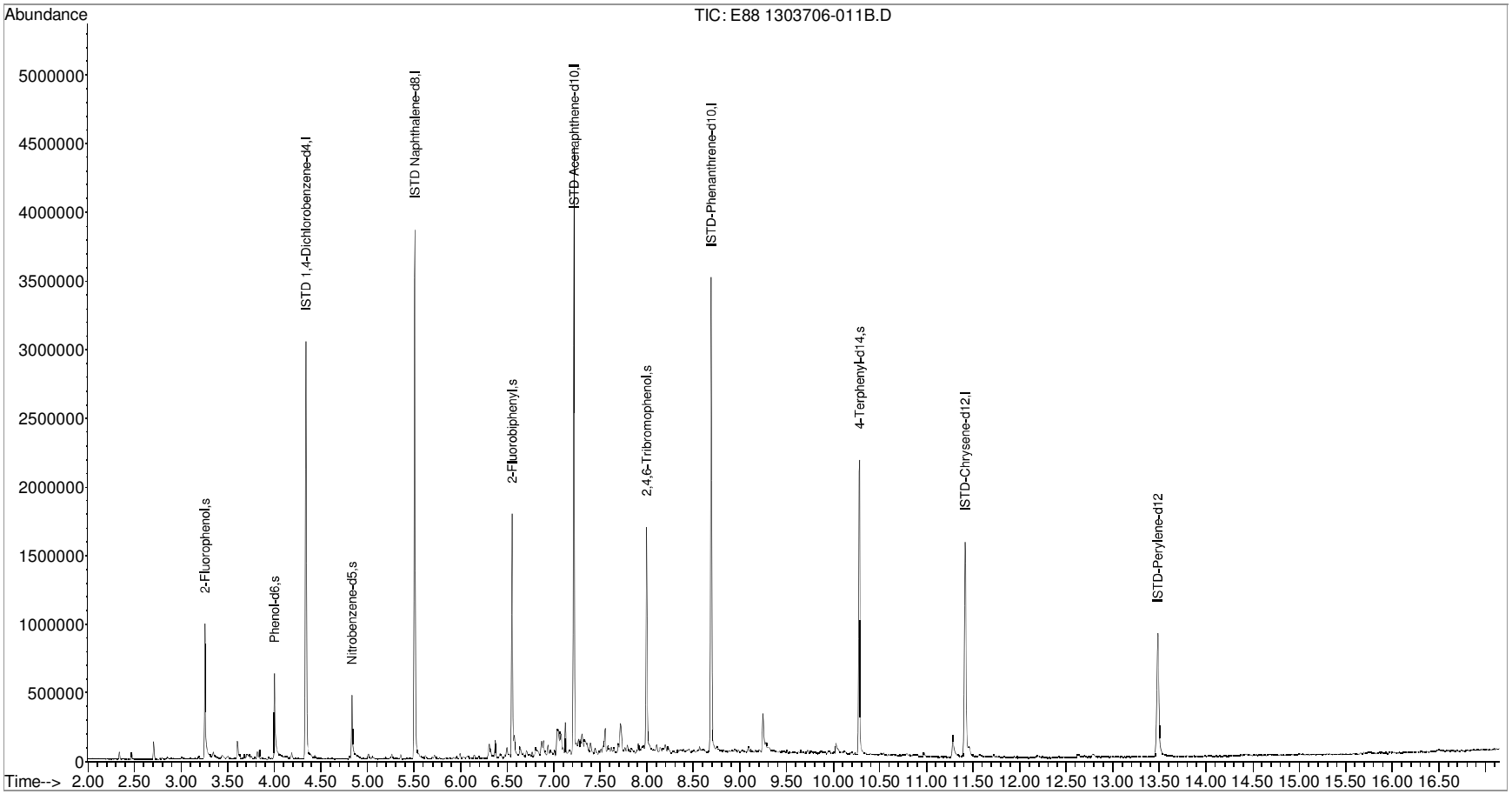
Quant Time: Mar 30 05:48:43 2013
Quant Method : C:\MSDCHEM\1\METHODS\QUANTFULLSV 03-19-13.M
Quant Title : Semi-Volatile Compounds HP-GCMS 5973-B
QLast Update : Fri Mar 29 07:52:23 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : Z:\MSDCHEM\1\DATA\MAR 13\29MAR13-A\
Data File : E88 1303706-011B.D
Acq On : 29 Mar 2013 5:58 pm
Operator : ALICIA HABERLE
Sample : 1303706-011B
Misc : SAMP
ALS Vial : 26 Sample Multiplier: 1

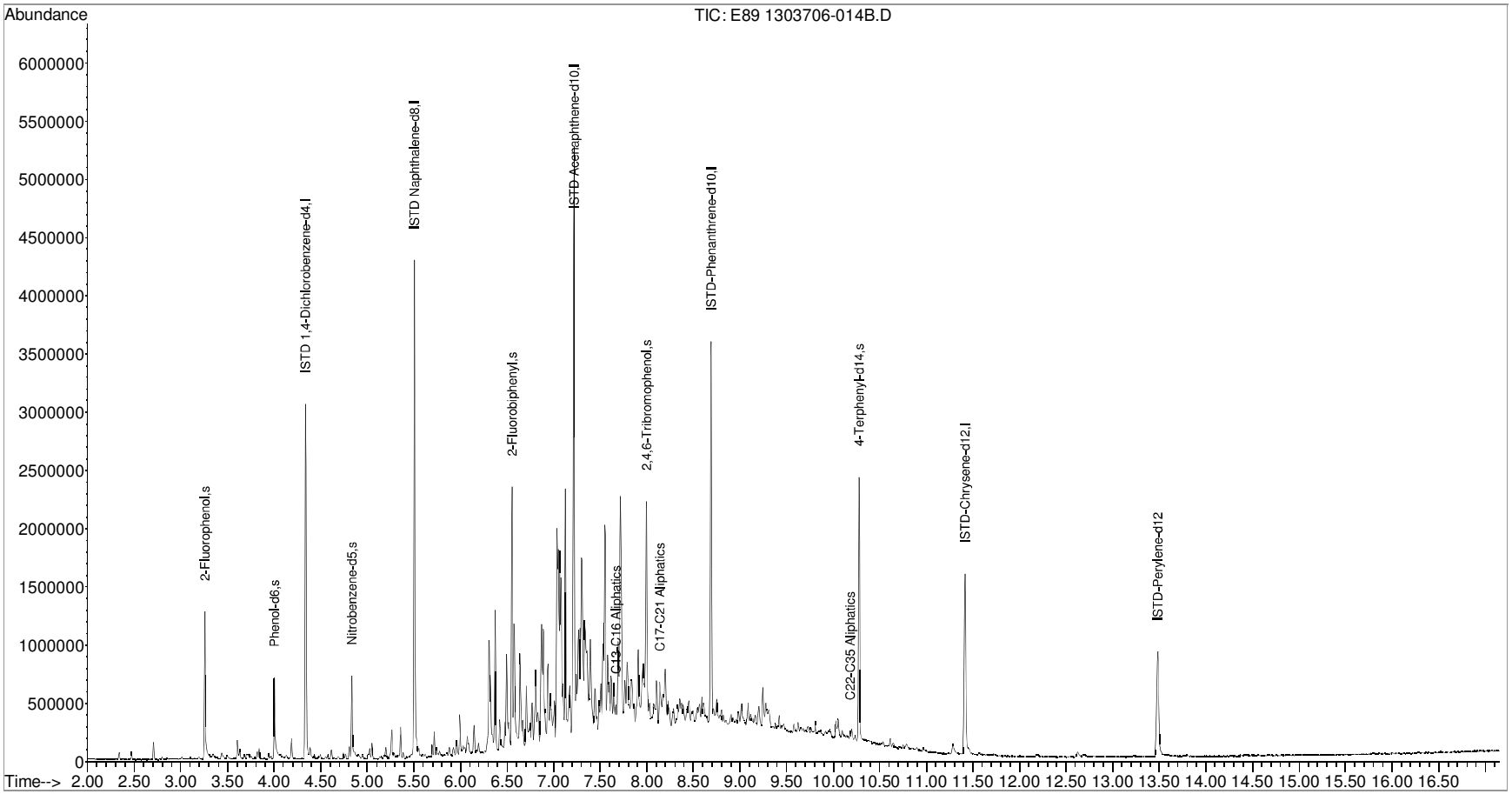
Quant Time: Mar 30 05:49:04 2013
Quant Method : C:\MSDCHEM\1\METHODS\QUANTFULLSV 03-19-13.M
Quant Title : Semi-Volatile Compounds HP-GCMS 5973-B
QLast Update : Fri Mar 29 07:52:23 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : Z:\MSDCHEM\1\DATA\MAR 13\29MAR13-A\
Data File : E89 1303706-014B.D
Acq On : 29 Mar 2013 6:25 pm
Operator : ALICIA HABERLE
Sample : 1303706-014B
Misc : SAMP
ALS Vial : 27 Sample Multiplier: 1

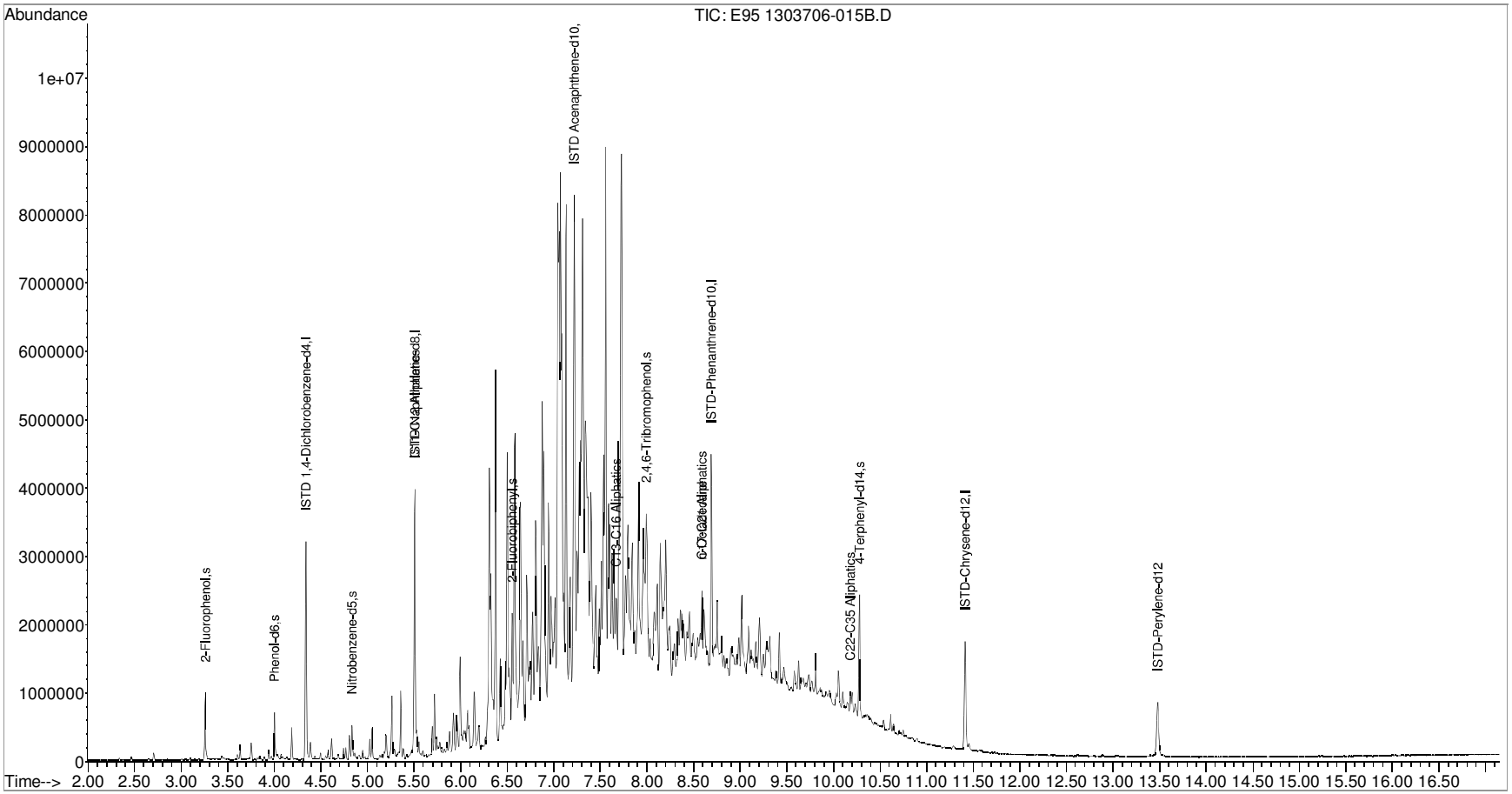
Quant Time: Mar 30 05:49:48 2013
Quant Method : C:\MSDCHEM\1\METHODS\QUANTFULLSV 03-19-13.M
Quant Title : Semi-Volatile Compounds HP-GCMS 5973-B
QLast Update : Fri Mar 29 07:52:23 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : Z:\MSDCHEM\1\DATA\MAR 13\29MAR13-A\
Data File : E95 1303706-015B.D
Acq On : 29 Mar 2013 9:07 pm
Operator : ALICIA HABERLE
Sample : 1303706-015B
Misc : SAMP
ALS Vial : 28 Sample Multiplier: 1

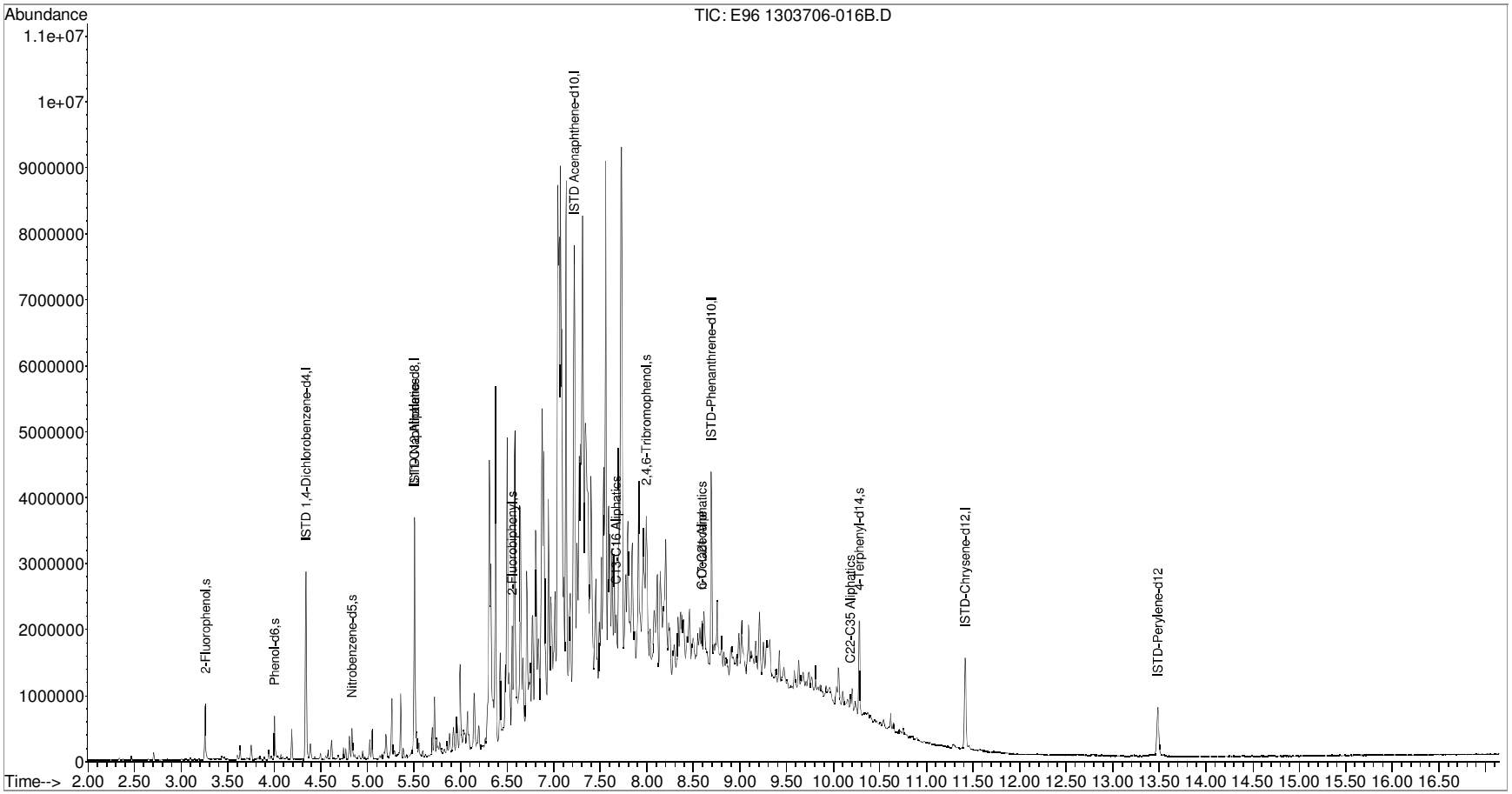
Quant Time: Mar 30 06:50:35 2013
Quant Method : C:\MSDCHEM\1\METHODS\QUANTFULLSV 03-19-13.M
Quant Title : Semi-Volatile Compounds HP-GCMS 5973-B
QLast Update : Fri Mar 29 07:52:23 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : Z:\MSDCHEM\1\DATA\MAR 13\29MAR13-A\
Data File : E96 1303706-016B.D
Acq On : 29 Mar 2013 9:33 pm
Operator : ALICIA HABERLE
Sample : 1303706-016B
Misc : SAMP
ALS Vial : 29 Sample Multiplier: 1

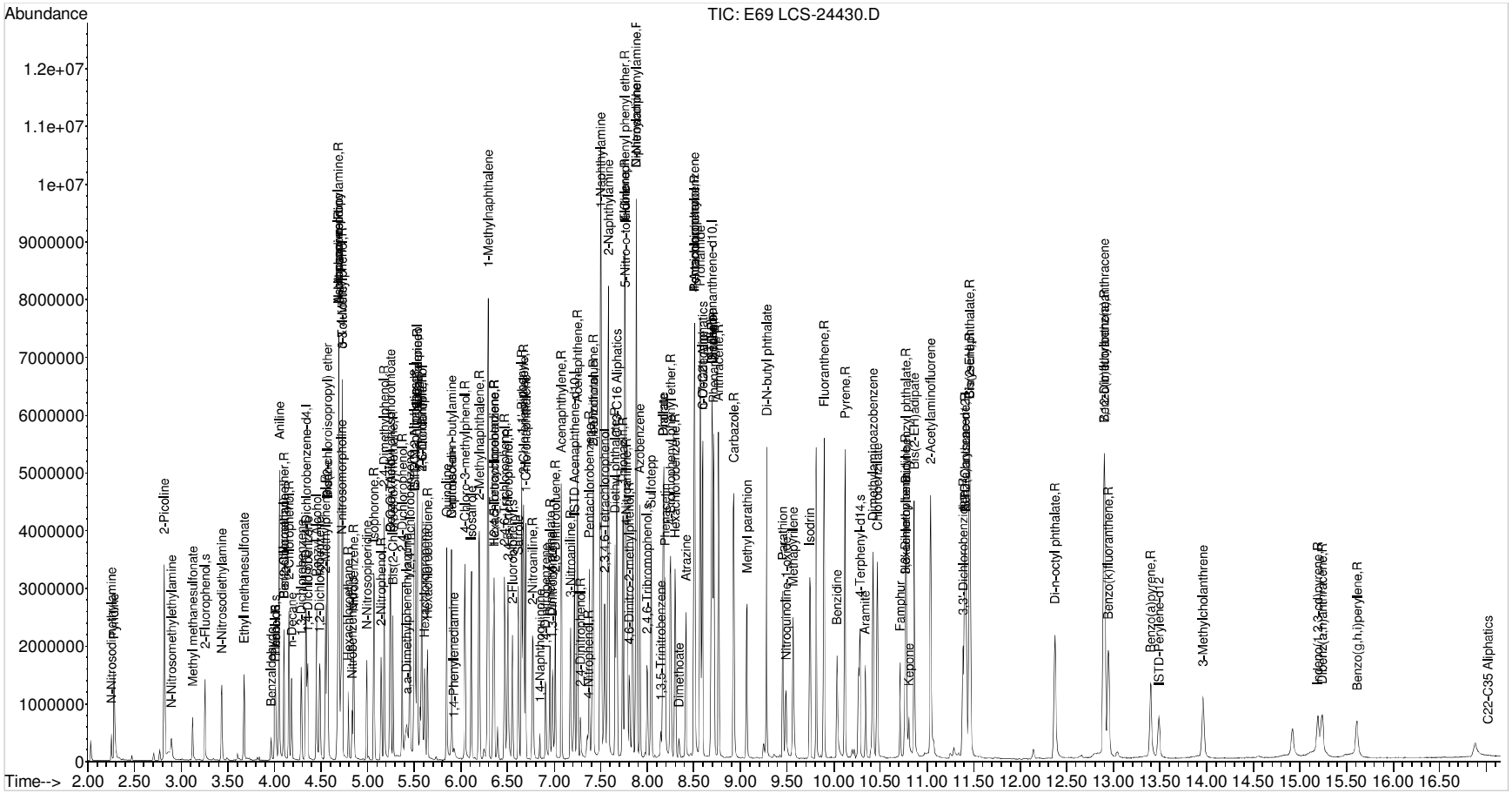
Quant Time: Mar 30 06:52:59 2013
Quant Method : C:\MSDCHEM\1\METHODS\QUANTFULLSV 03-19-13.M
Quant Title : Semi-Volatile Compounds HP-GCMS 5973-B
QLast Update : Fri Mar 29 07:52:23 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : Z:\MSDCHEM\1\DATA\MAR 13\29MAR13-A\
Data File : E69 LCS-24430.D
Acq On : 29 Mar 2013 9:31 am
Operator : ALICIA HABERLE
Sample : LCS-24430
Misc : LCS
ALS Vial : 7 Sample Multiplier: 1

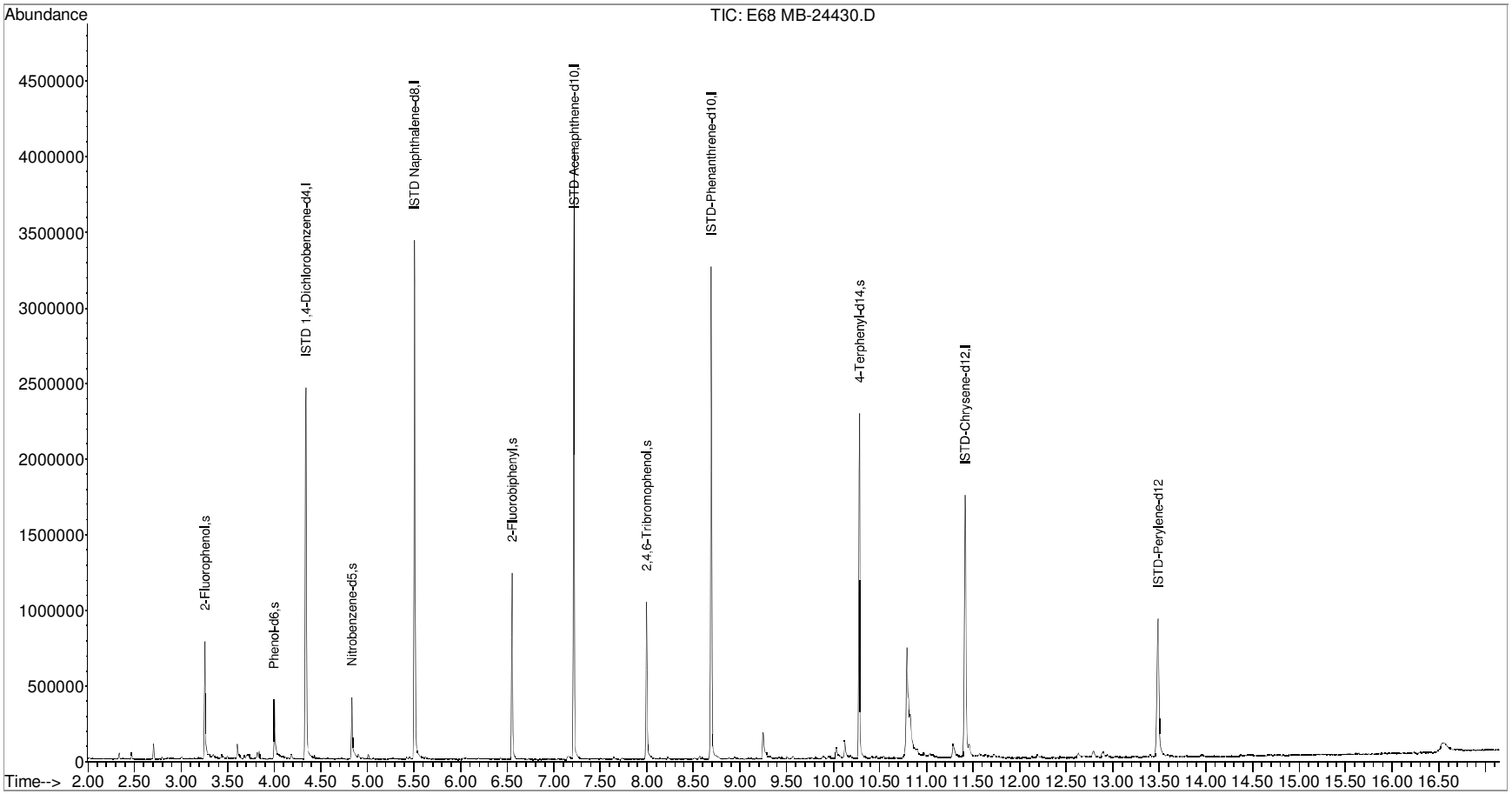
Quant Time: Mar 29 10:23:33 2013
Quant Method : C:\MSDCHEM\1\METHODS\QUANTFULLSV 03-19-13.M
Quant Title : Semi-Volatile Compounds HP-GCMS 5973-B
QLast Update : Fri Mar 29 07:52:23 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : Z:\MSDCHEM\1\DATA\MAR 13\29MAR13-A\
Data File : E68 MB-24430.D
Acq On : 29 Mar 2013 9:04 am
Operator : ALICIA HABERLE
Sample : MB-24430
Misc : MBLK
ALS Vial : 6 Sample Multiplier: 1

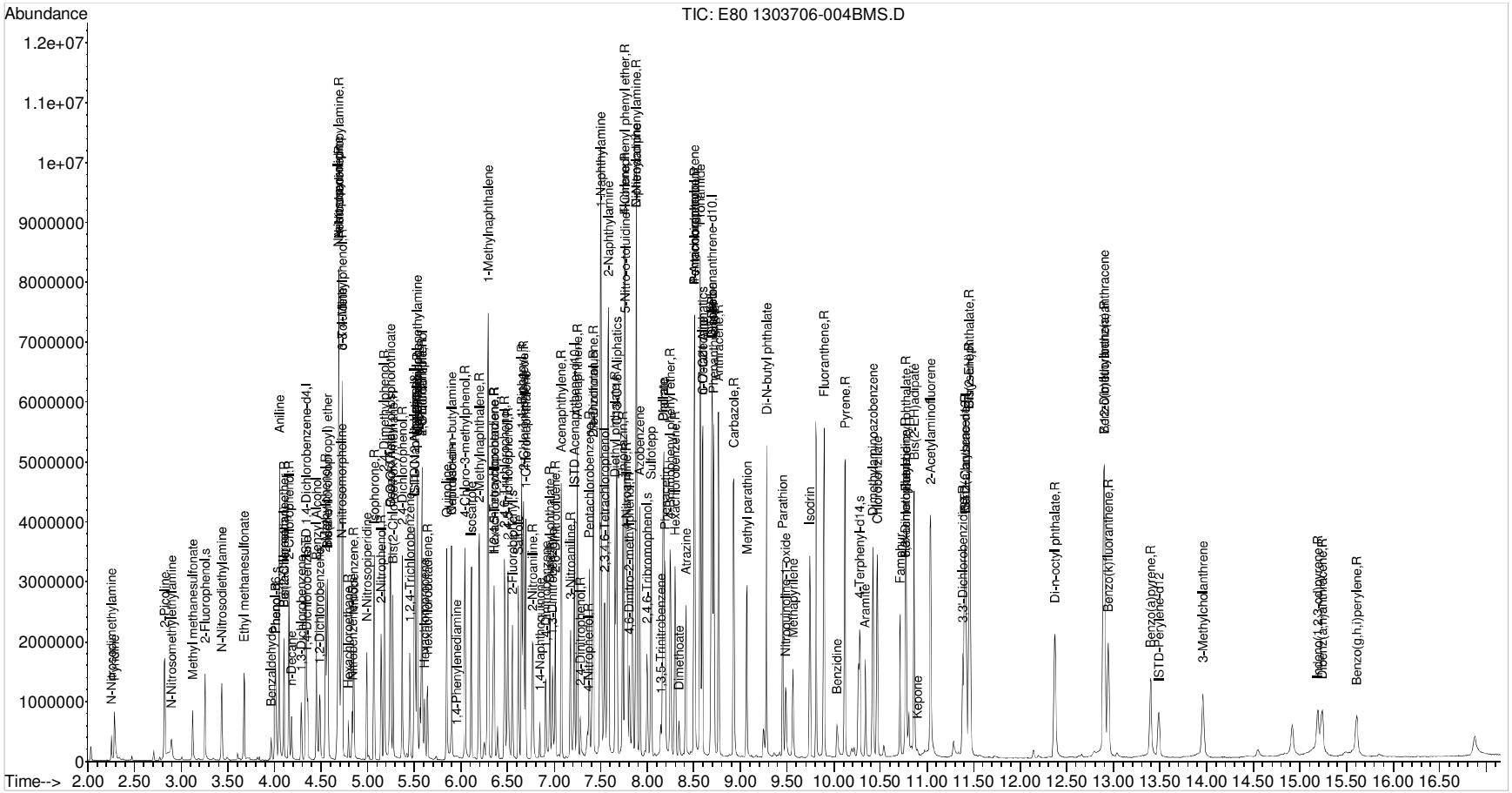
Quant Time: Mar 29 09:36:07 2013
Quant Method : C:\MSDCHEM\1\METHODS\QUANTFULLSV 03-19-13.M
Quant Title : Semi-Volatile Compounds HP-GCMS 5973-B
QLast Update : Fri Mar 29 07:52:23 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : Z:\MSDCHEM\1\DATA\MAR 13\29MAR13-A\
Data File : E80 1303706-004BMS.D
Acq On : 29 Mar 2013 2:23 pm
Operator : ALICIA HABERLE
Sample : 1303706-004BMS
Misc : MS
ALS Vial : 18 Sample Multiplier: 1

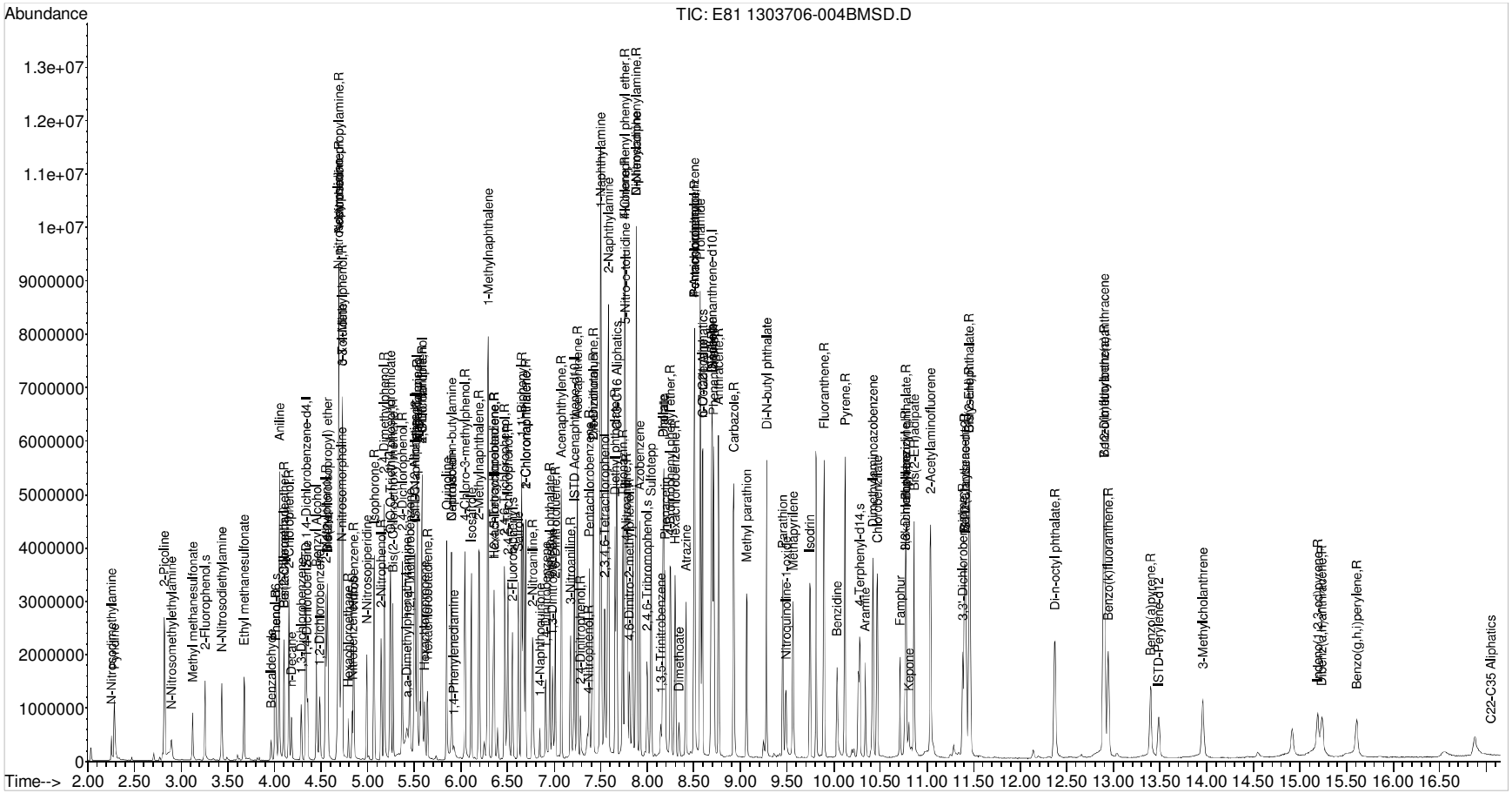
Quant Time: Mar 30 05:44:38 2013
Quant Method : C:\MSDCHEM\1\METHODS\QUANTFULLSV 03-19-13.M
Quant Title : Semi-Volatile Compounds HP-GCMS 5973-B
QLast Update : Fri Mar 29 07:52:23 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : Z:\MSDCHEM\1\DATA\MAR 13\29MAR13-A\
Data File : E81 1303706-004BMSD.D
Acq On : 29 Mar 2013 2:50 pm
Operator : ALICIA HABERLE
Sample : 1303706-004BMSD
Misc : MSD
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Mar 30 05:45:24 2013
Quant Method : C:\MSDCHEM\1\METHODS\QUANTFULLSV 03-19-13.M
Quant Title : Semi-Volatile Compounds HP-GCMS 5973-B
QLast Update : Fri Mar 29 07:52:23 2013
Response via : Initial Calibration

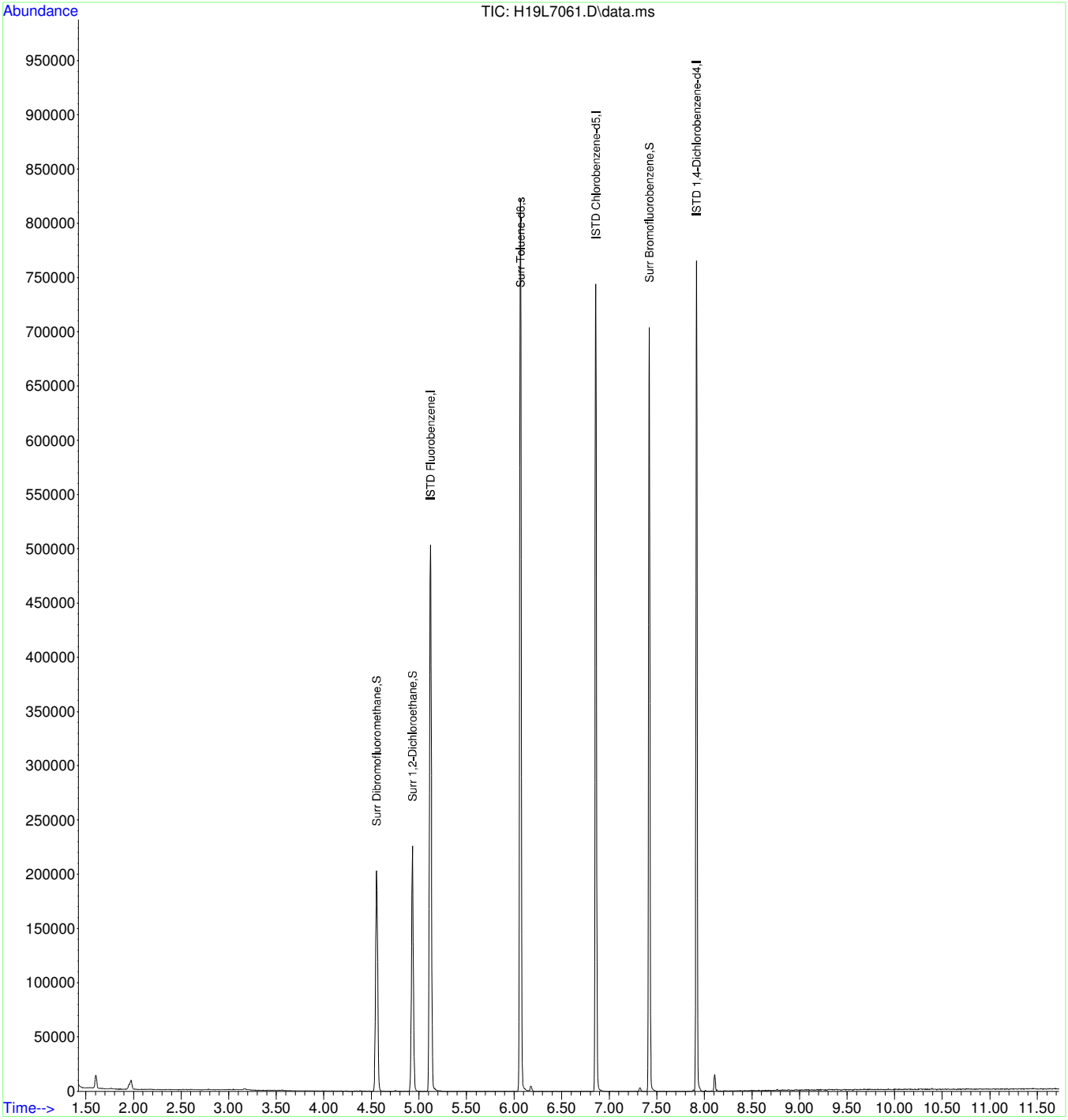


QUANTFULLSV 03-19-13.M Sat Mar 30 05:51:20 2013 Page: 5

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\MAR13-D\27MAR13\
Data File : H19L7061.D
Acq On : 27 Mar 2013 7:23 pm
Operator : AAP
Sample : 1303706-001A
Misc : SAMP 5.0ML 1OF3 SB
ALS Vial : 6 Sample Multiplier: 1

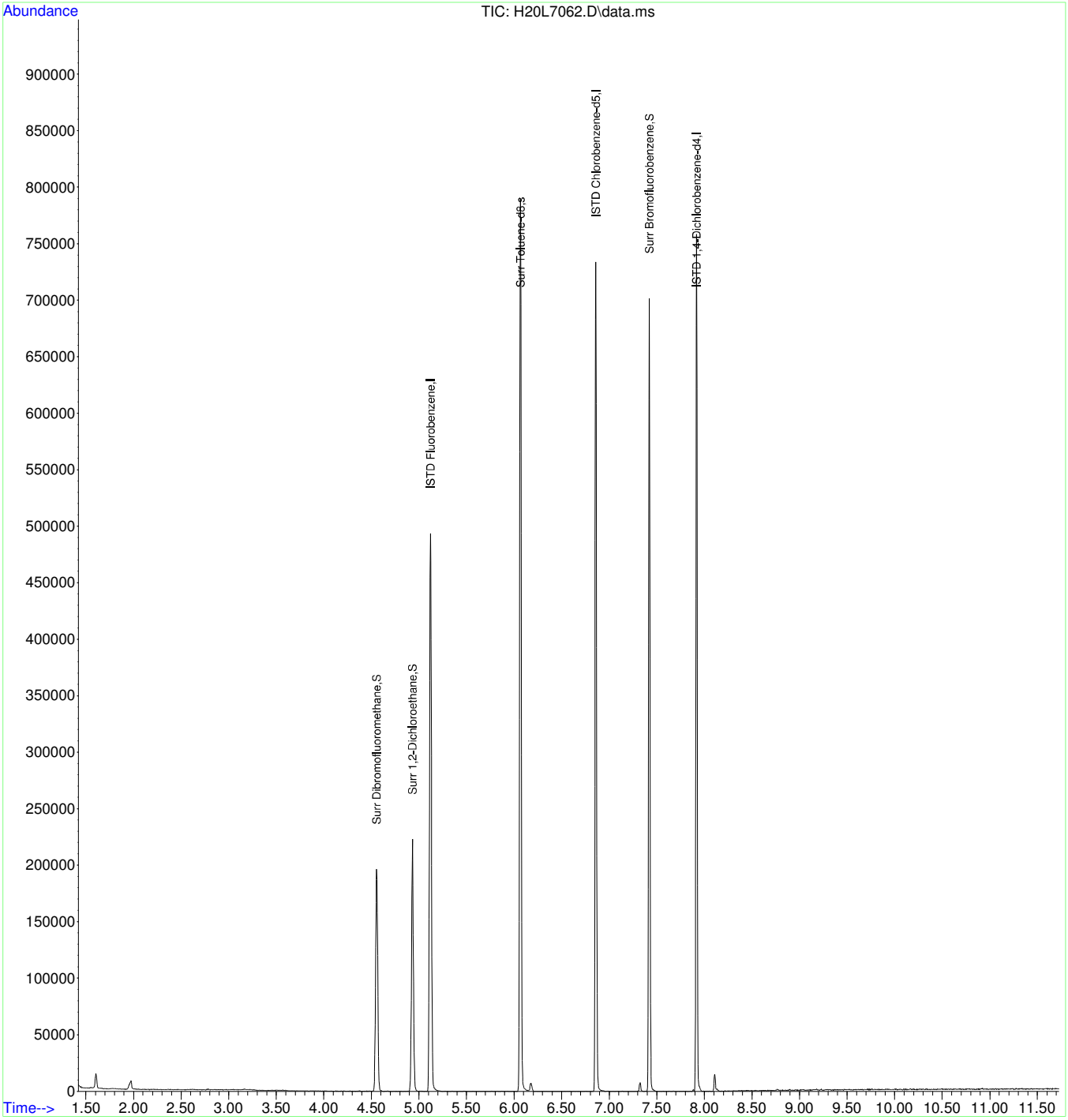
Quant Time: Mar 28 17:58:37 2013
Quant Method : C:\MSDCHEM\1\METHODS\DFULLW_14.M
Quant Title : VOA Calibration
QLast Update : Sun Mar 24 06:12:19 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\MAR13-D\27MAR13\
Data File : H20L7062.D
Acq On : 27 Mar 2013 7:42 pm
Operator : AAP
Sample : 1303706-002A
Misc : SAMP 5.0ML 1OF3 SB
ALS Vial : 7 Sample Multiplier: 1

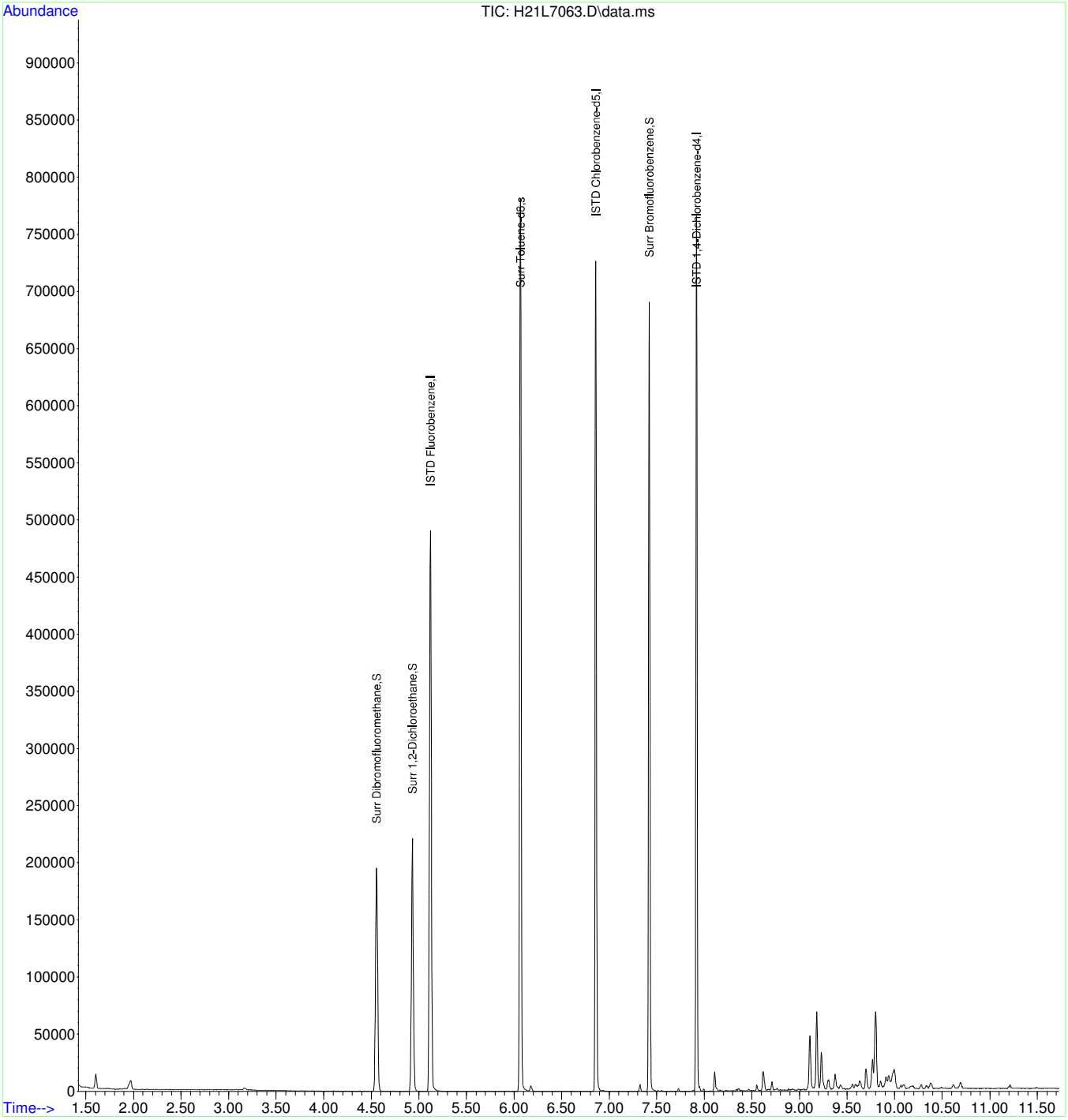
Quant Time: Mar 28 17:58:50 2013
Quant Method : C:\MSDCHEM\1\METHODS\DFULLW_14.M
Quant Title : VOA Calibration
QLast Update : Sun Mar 24 06:12:19 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\MAR13-D\27MAR13\
Data File : H21L7063.D
Acq On : 27 Mar 2013 8:01 pm
Operator : AAP
Sample : 1303706-003A
Misc : SAMP 5.0ML 1OF3 SB
ALS Vial : 8 Sample Multiplier: 1

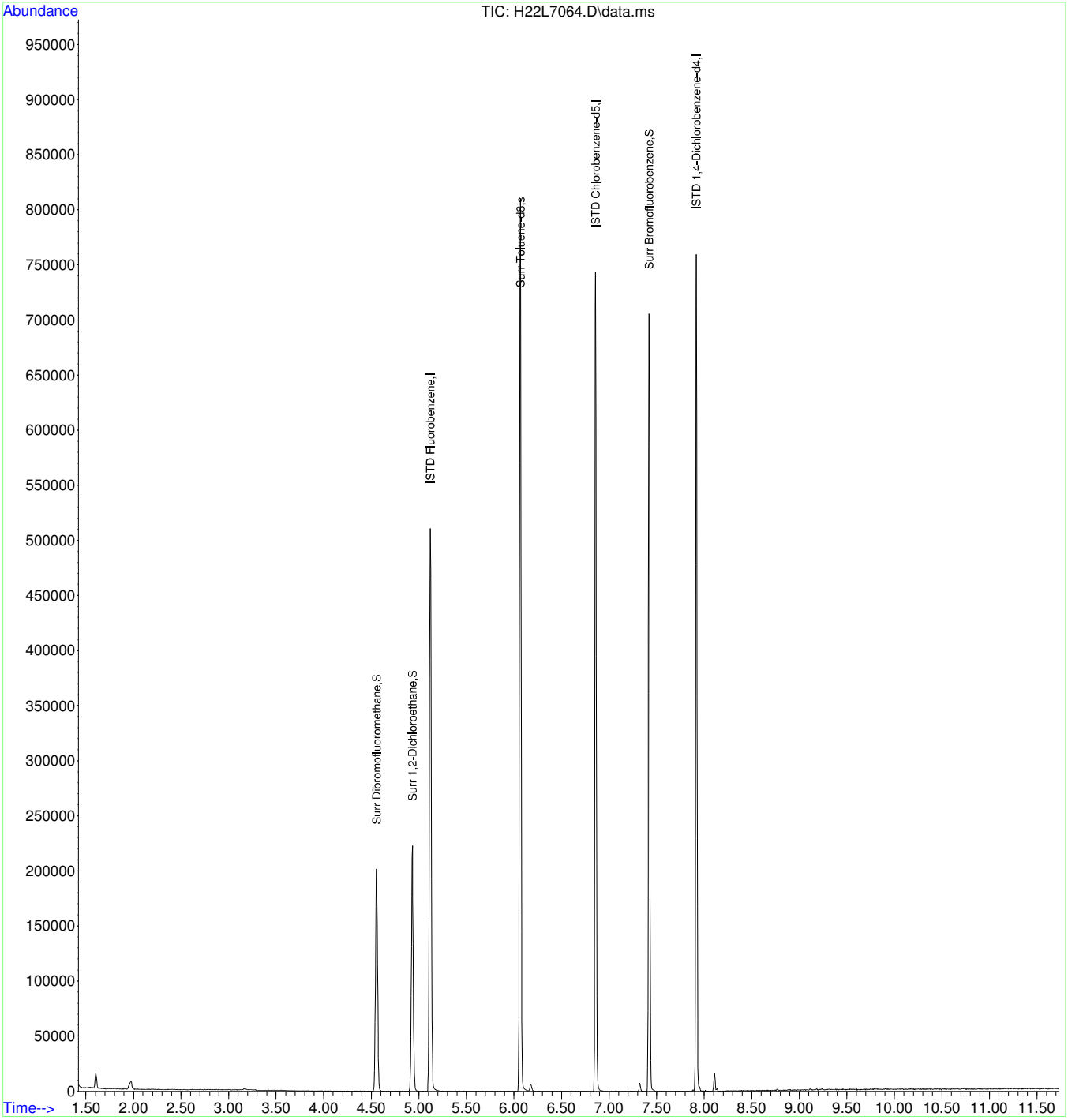
Quant Time: Mar 28 17:59:04 2013
Quant Method : C:\MSDCHEM\1\METHODS\DFULLW_14.M
Quant Title : VOA Calibration
QLast Update : Sun Mar 24 06:12:19 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\MAR13-D\27MAR13\
Data File : H22L7064.D
Acq On : 27 Mar 2013 8:20 pm
Operator : AAP
Sample : 1303706-004A
Misc : SAMP 5.0ML 1OF3 SB
ALS Vial : 9 Sample Multiplier: 1

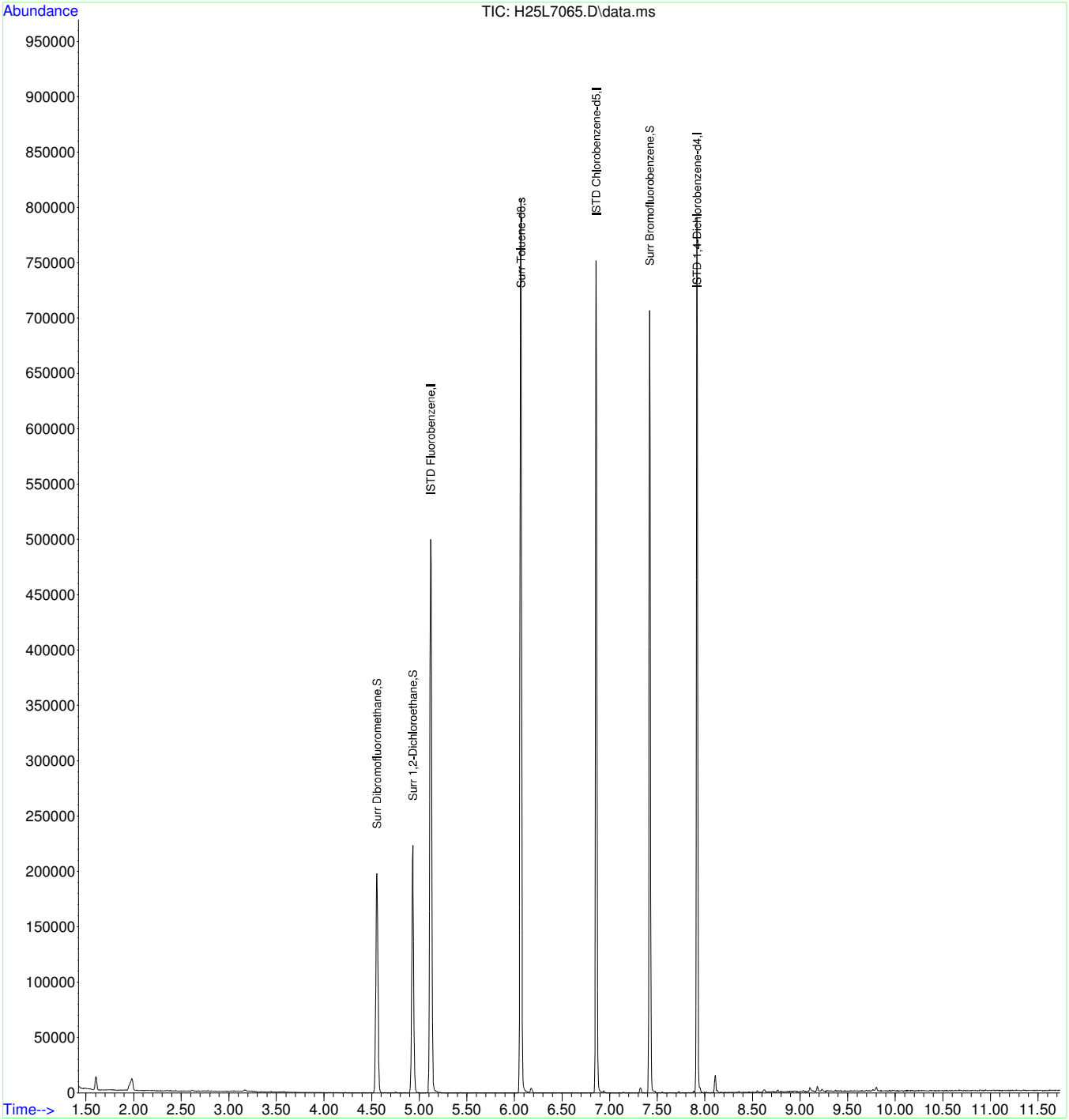
Quant Time: Mar 28 17:59:19 2013
Quant Method : C:\MSDCHEM\1\METHODS\DFULLW_14.M
Quant Title : VOA Calibration
QLast Update : Sun Mar 24 06:12:19 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\MAR13-D\27MAR13\
Data File : H25L7065.D
Acq On : 27 Mar 2013 9:17 pm
Operator : AAP
Sample : 1303706-005A
Misc : SAMP 5.0ML 1OF3 SB
ALS Vial : 12 Sample Multiplier: 1

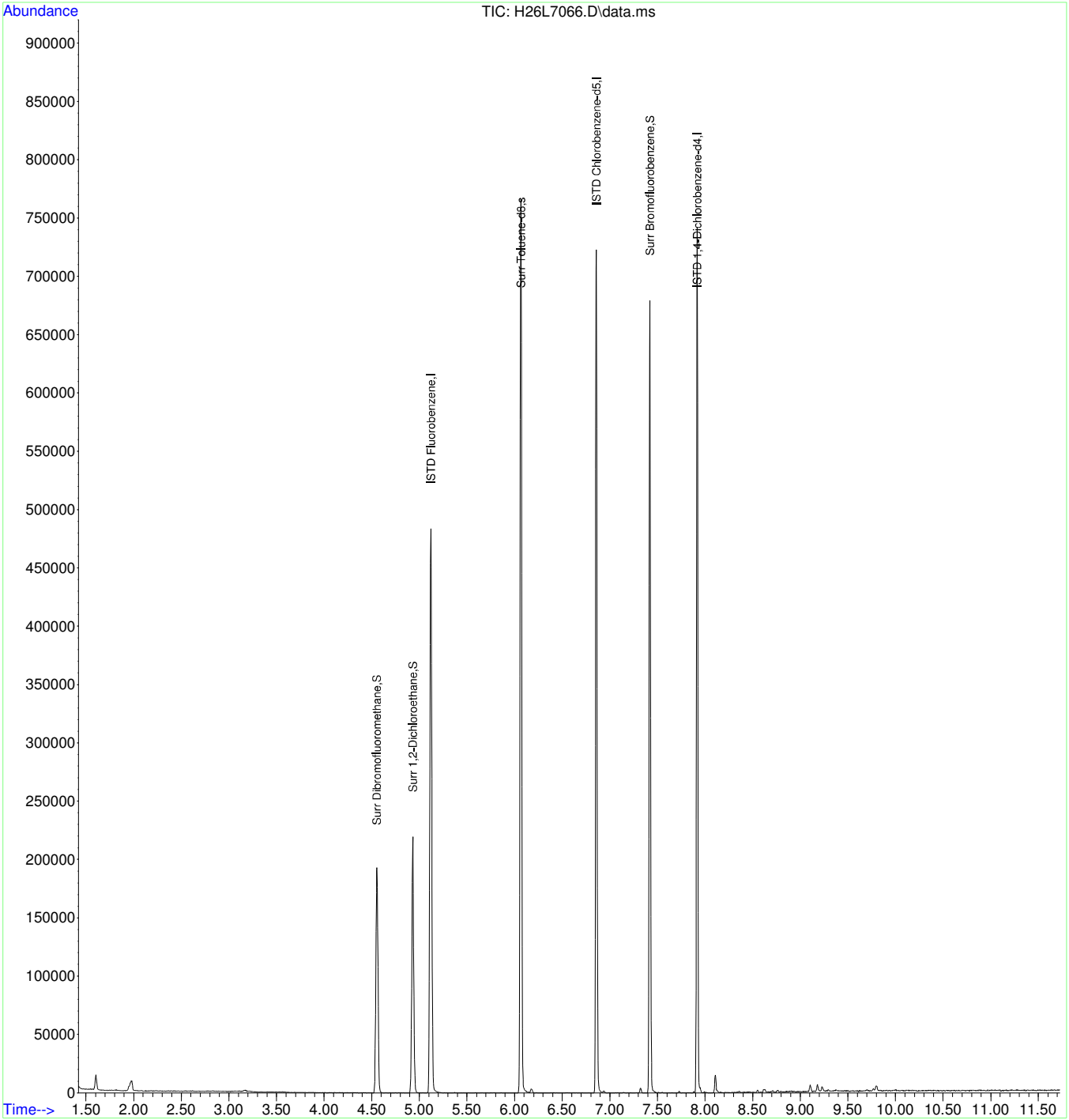
Quant Time: Mar 28 18:00:47 2013
Quant Method : C:\MSDCHEM\1\METHODS\DFULLW_14.M
Quant Title : VOA Calibration
QLast Update : Sun Mar 24 06:12:19 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\MAR13-D\27MAR13\
Data File : H26L7066.D
Acq On : 27 Mar 2013 9:36 pm
Operator : AAP
Sample : 1303706-006A
Misc : SAMP 5.0ML 1OF3 SB
ALS Vial : 13 Sample Multiplier: 1

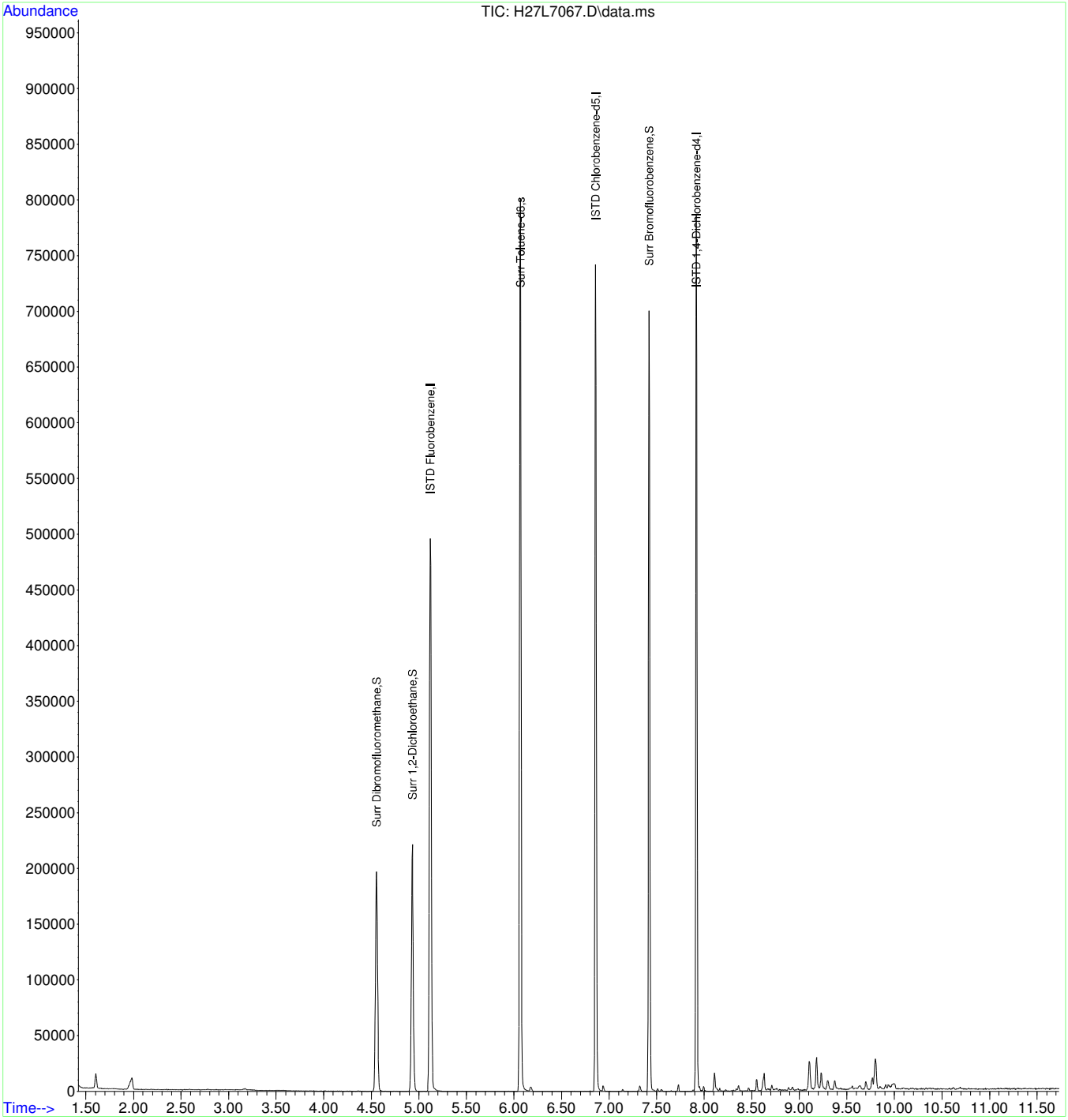
Quant Time: Mar 28 18:01:01 2013
Quant Method : C:\MSDCHEM\1\METHODS\DFULLW_14.M
Quant Title : VOA Calibration
QLast Update : Sun Mar 24 06:12:19 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\MAR13-D\27MAR13\
Data File : H27L7067.D
Acq On : 27 Mar 2013 9:55 pm
Operator : AAP
Sample : 1303706-007A
Misc : SAMP 5.0ML 1OF3 SB
ALS Vial : 14 Sample Multiplier: 1

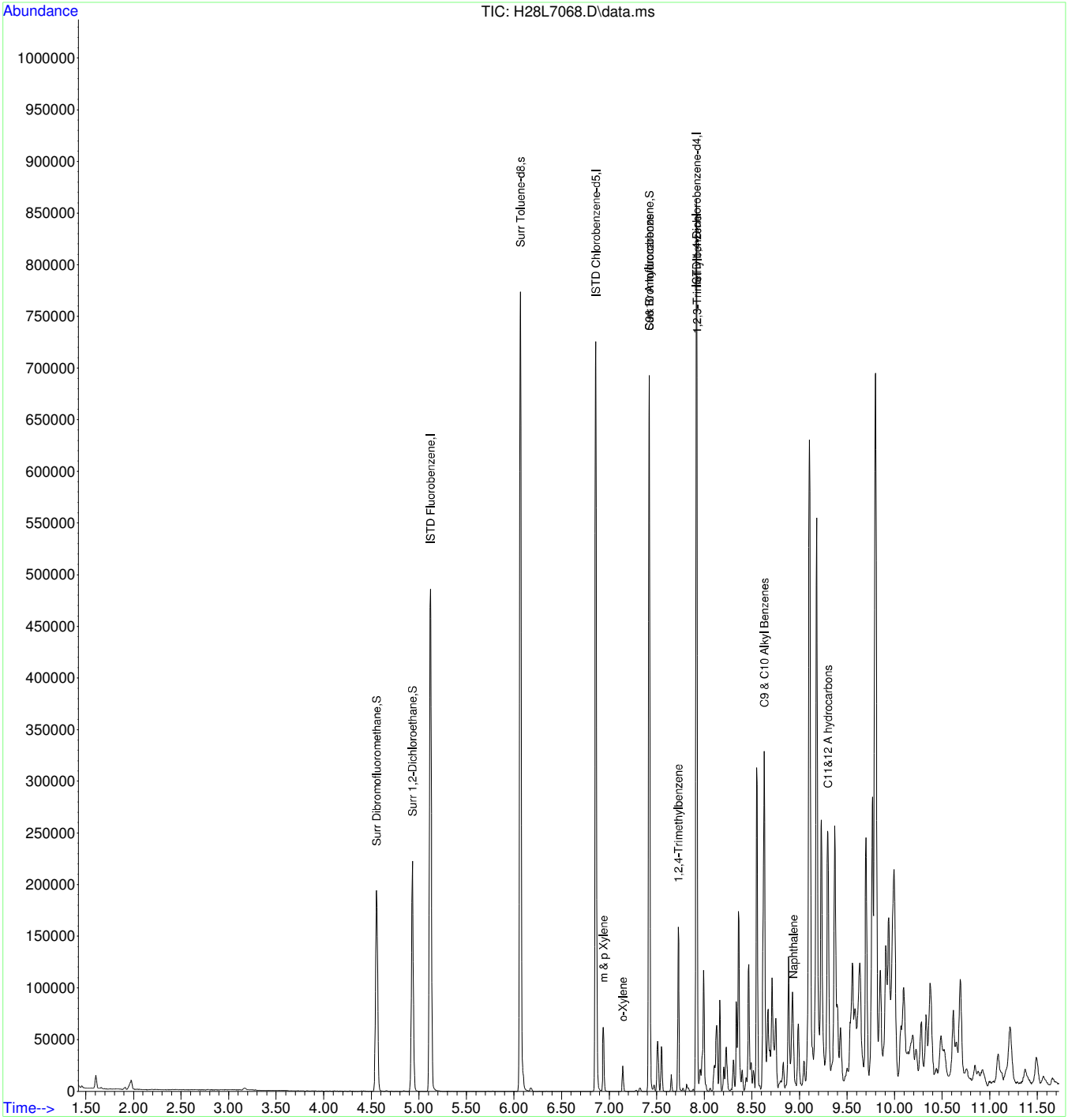
Quant Time: Mar 28 18:01:14 2013
Quant Method : C:\MSDCHEM\1\METHODS\DFULLW_14.M
Quant Title : VOA Calibration
QLast Update : Sun Mar 24 06:12:19 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\MAR13-D\27MAR13\
Data File : H28L7068.D
Acq On : 27 Mar 2013 10:14 pm
Operator : AAP
Sample : 1303706-008A
Misc : SAMP 5.0ML 1OF3 SB
ALS Vial : 15 Sample Multiplier: 1

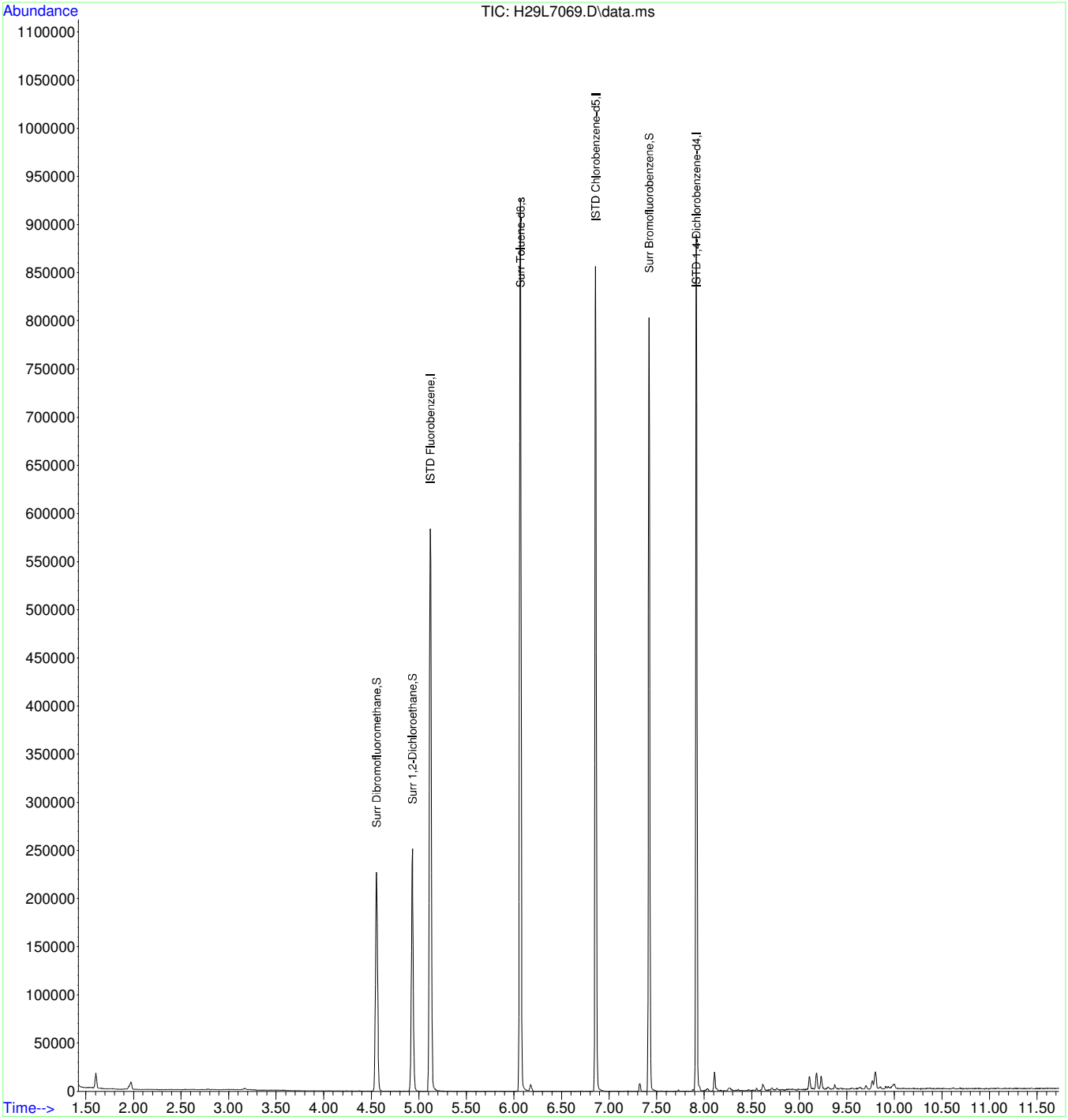
Quant Time: Mar 28 18:02:11 2013
Quant Method : C:\MSDCHEM\1\METHODS\DFULLW_14.M
Quant Title : VOA Calibration
QLast Update : Sun Mar 24 06:12:19 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\MAR13-D\27MAR13\
Data File : H29L7069.D
Acq On : 27 Mar 2013 10:33 pm
Operator : AAP
Sample : 1303706-009A
Misc : SAMP 5.0ML 1OF3 SB
ALS Vial : 16 Sample Multiplier: 1

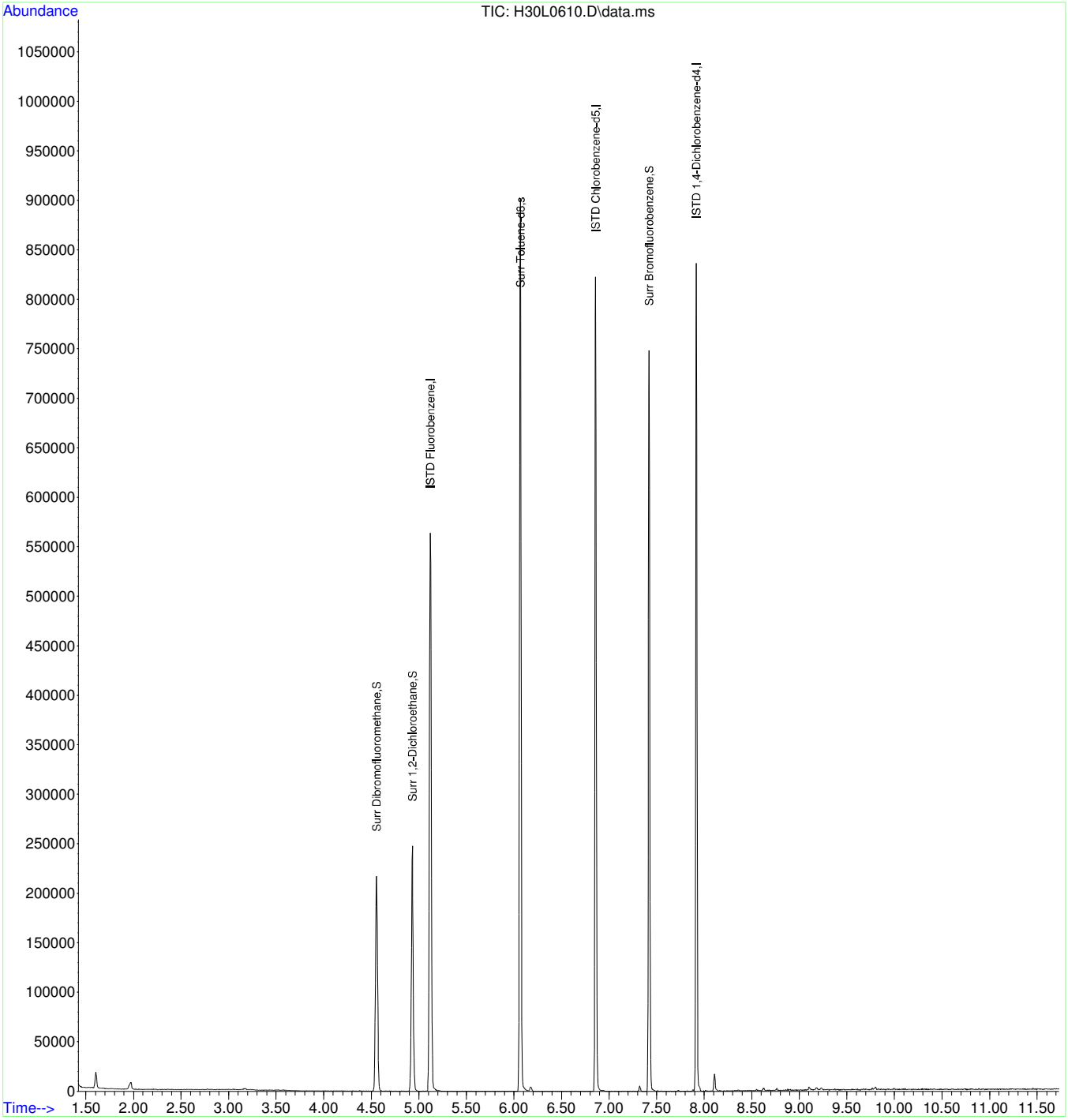
Quant Time: Mar 28 18:02:28 2013
Quant Method : C:\MSDCHEM\1\METHODS\DFULLW_14.M
Quant Title : VOA Calibration
QLast Update : Sun Mar 24 06:12:19 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\MAR13-D\27MAR13\
Data File : H30L0610.D
Acq On : 27 Mar 2013 10:52 pm
Operator : AAP
Sample : 1303706-010A
Misc : SAMP 5.0ML 1OF3 SB
ALS Vial : 17 Sample Multiplier: 1

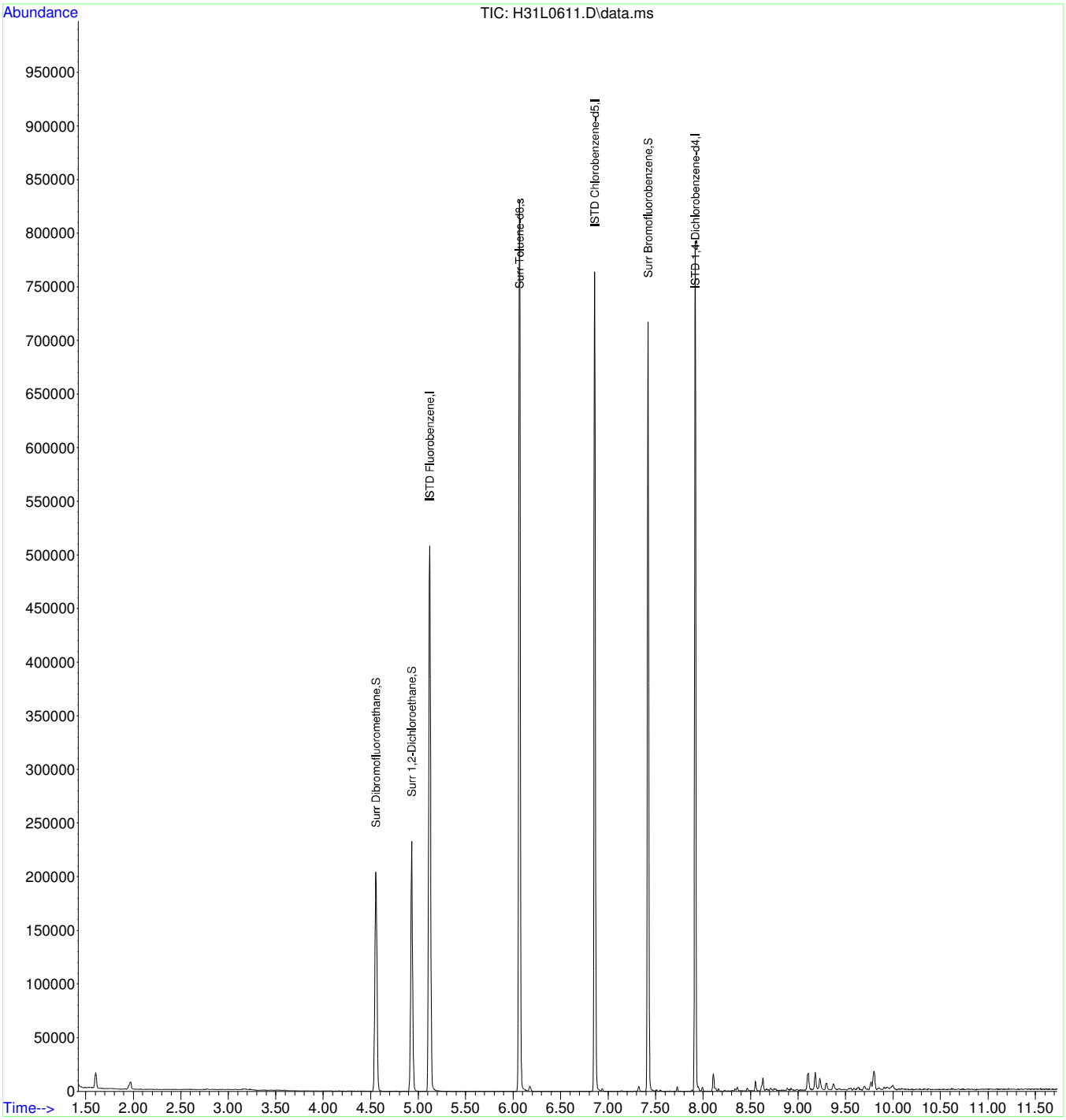
Quant Time: Mar 28 18:02:44 2013
Quant Method : C:\MSDCHEM\1\METHODS\DFULLW_14.M
Quant Title : VOA Calibration
QLast Update : Sun Mar 24 06:12:19 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\MAR13-D\27MAR13\
Data File : H31L0611.D
Acq On : 27 Mar 2013 11:11 pm
Operator : AAP
Sample : 1303706-011A
Misc : SAMP 5.0ML 1OF3 SB
ALS Vial : 18 Sample Multiplier: 1

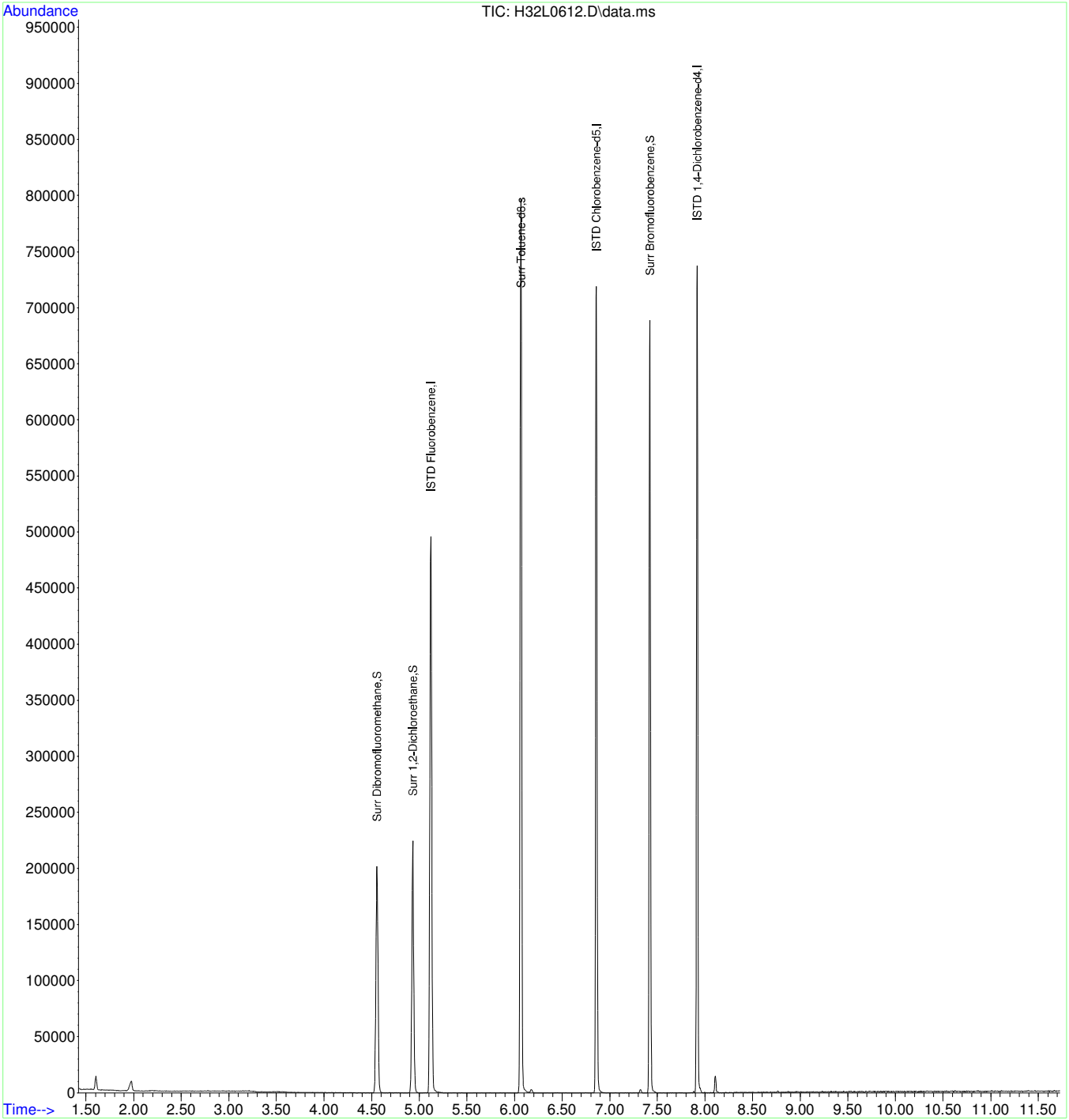
Quant Time: Mar 28 18:02:58 2013
Quant Method : C:\MSDCHEM\1\METHODS\DFULLW_14.M
Quant Title : VOA Calibration
QLast Update : Sun Mar 24 06:12:19 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\MAR13-D\27MAR13\
Data File : H32L0612.D
Acq On : 27 Mar 2013 11:30 pm
Operator : AAP
Sample : 1303706-012A
Misc : SAMP 5.0ML 1OF3 SB
ALS Vial : 19 Sample Multiplier: 1

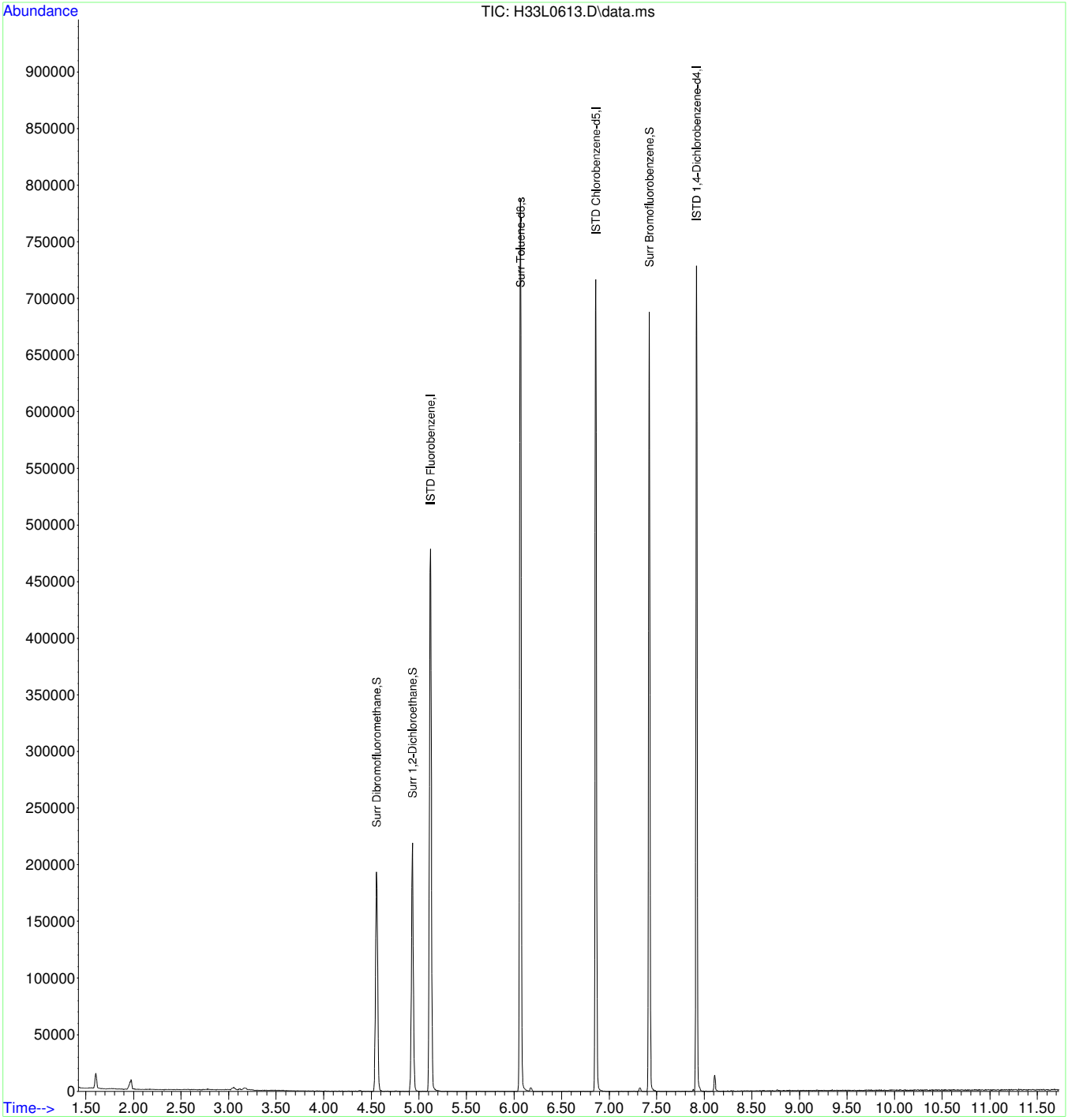
Quant Time: Mar 28 18:03:10 2013
Quant Method : C:\MSDCHEM\1\METHODS\DFULLW_14.M
Quant Title : VOA Calibration
QLast Update : Sun Mar 24 06:12:19 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\MAR13-D\27MAR13\
Data File : H33L0613.D
Acq On : 27 Mar 2013 11:49 pm
Operator : AAP
Sample : 1303706-013A
Misc : SAMP 5.0ML 1OF3 SB
ALS Vial : 20 Sample Multiplier: 1

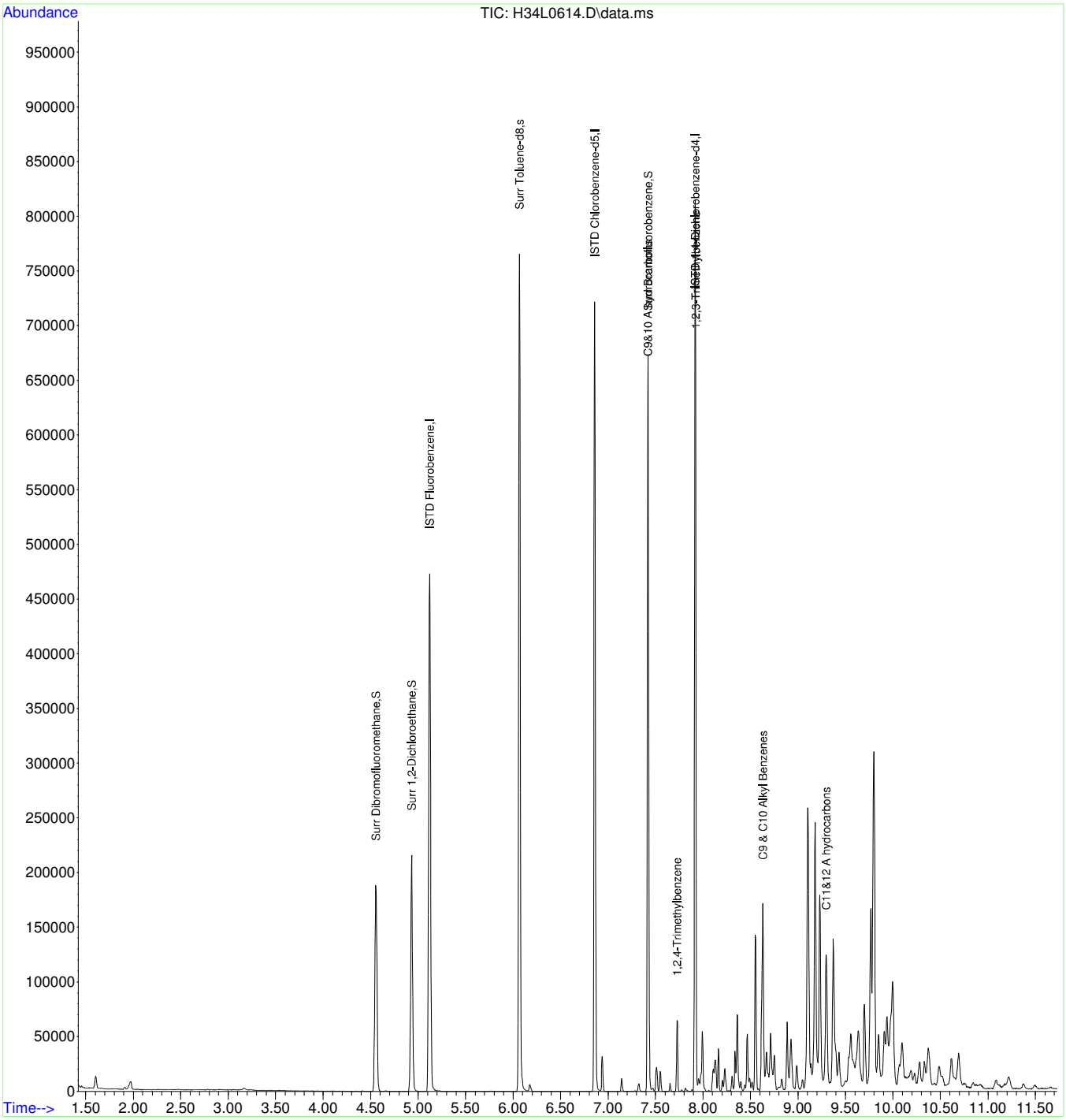
Quant Time: Mar 28 18:03:27 2013
Quant Method : C:\MSDCHEM\1\METHODS\DFULLW_14.M
Quant Title : VOA Calibration
QLast Update : Sun Mar 24 06:12:19 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\MAR13-D\27MAR13\
Data File : H34L0614.D
Acq On : 28 Mar 2013 12:08 am
Operator : AAP
Sample : 1303706-014A
Misc : SAMP 5.0ML 1OF3 SB
ALS Vial : 21 Sample Multiplier: 1

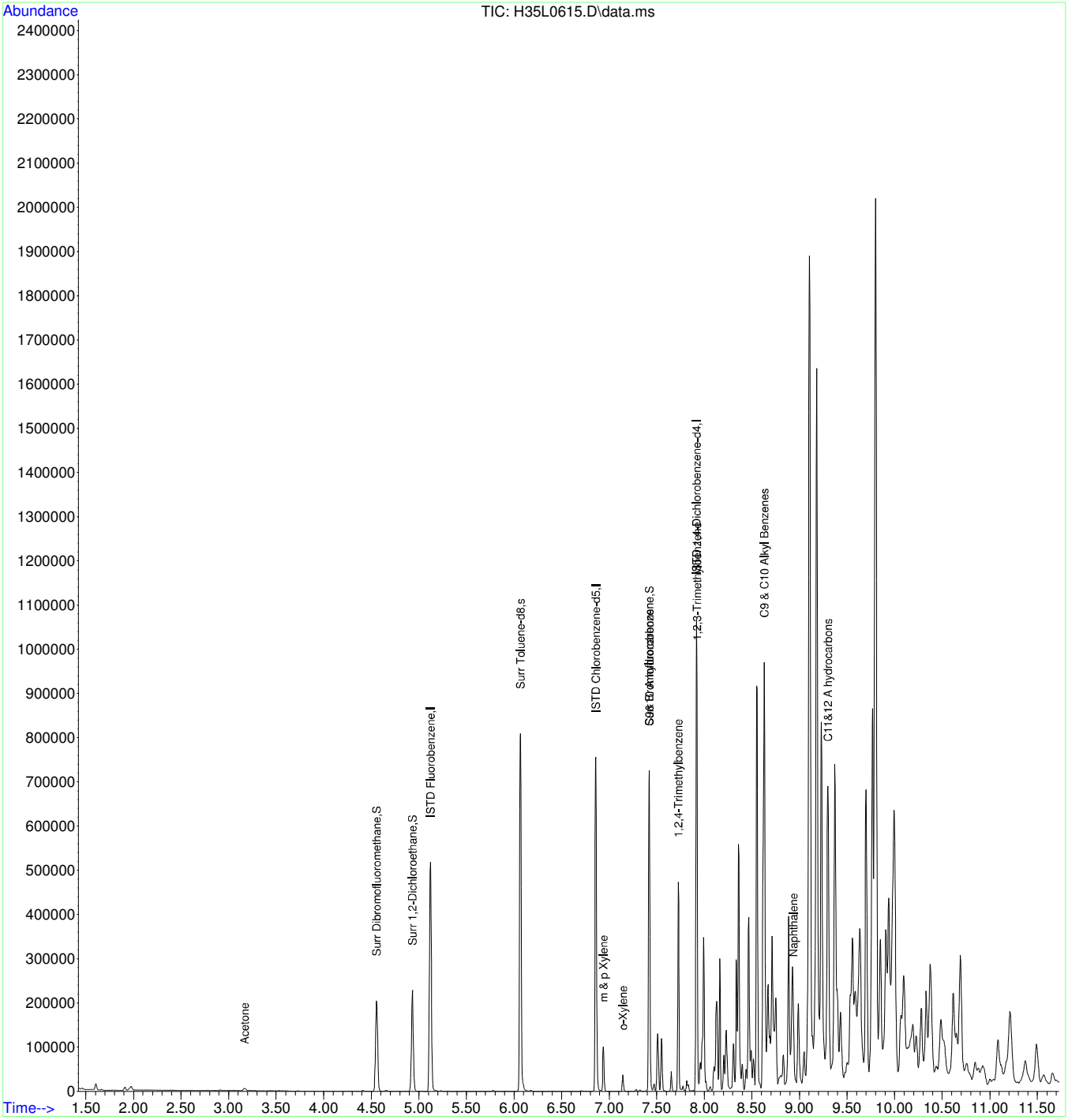
Quant Time: Mar 28 18:04:12 2013
Quant Method : C:\MSDCHEM\1\METHODS\DFULLW_14.M
Quant Title : VOA Calibration
QLast Update : Sun Mar 24 06:12:19 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\MAR13-D\27MAR13\
Data File : H35L0615.D
Acq On : 28 Mar 2013 12:27 am
Operator : AAP
Sample : 1303706-015A
Misc : SAMP 5.0ML 1OF3 SB
ALS Vial : 22 Sample Multiplier: 1

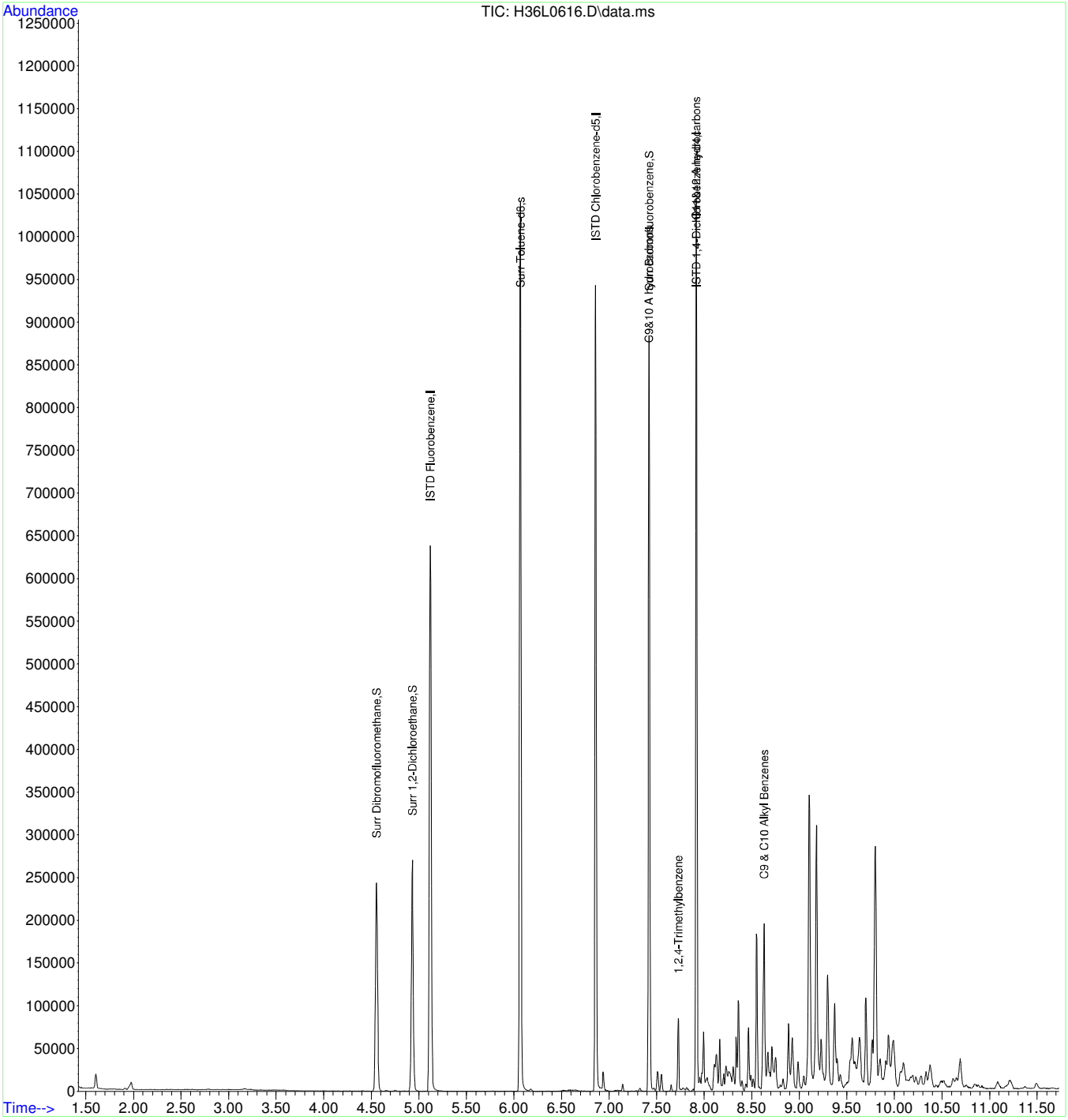
Quant Time: Mar 28 18:05:08 2013
Quant Method : C:\MSDCHEM\1\METHODS\DFULLW_14.M
Quant Title : VOA Calibration
QLast Update : Sun Mar 24 06:12:19 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\MAR13-D\27MAR13\
Data File : H36L0616.D
Acq On : 28 Mar 2013 12:46 am
Operator : AAP
Sample : 1303706-016A
Misc : SAMP 10ML/50ML 1OF3 SB
ALS Vial : 23 Sample Multiplier: 5

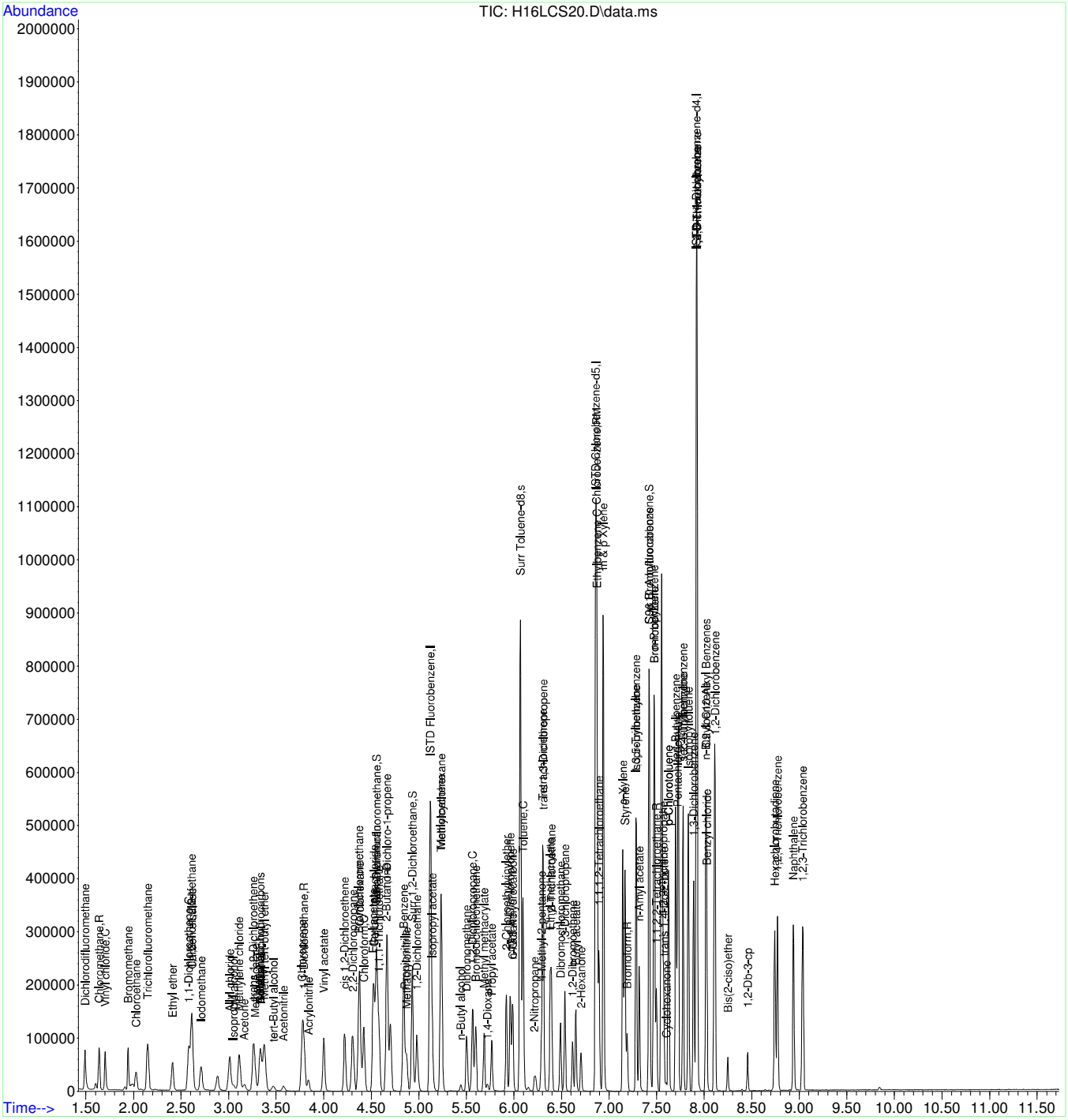
Quant Time: Mar 28 18:05:48 2013
Quant Method : C:\MSDCHEM\1\METHODS\DFULLW_14.M
Quant Title : VOA Calibration
QLast Update : Sun Mar 24 06:12:19 2013
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\MAR13-D\27MAR13\
Data File : H16LCS20.D
Acq On : 27 Mar 2013 6:26 pm
Operator : AAP
Sample : LCS VOC 032713A
Misc : LCS SEE COVERSHEET FOR ID AND AMOUNT SB
ALS Vial : 3 Sample Multiplier: 1

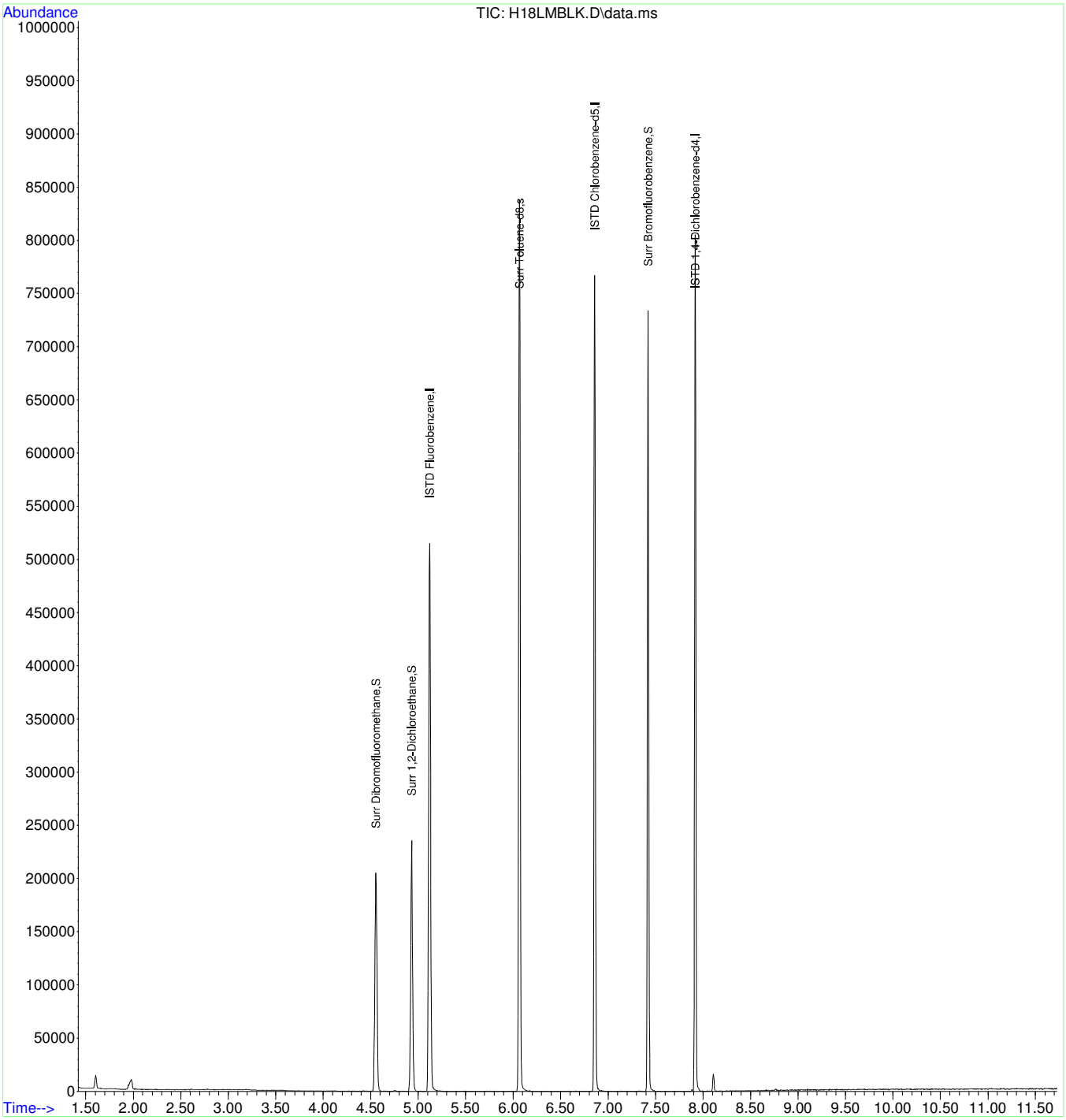
Quant Time: Mar 27 18:38:39 2013
Quant Method : C:\MSDCHEM\1\METHODS\DFULLW_14.M
Quant Title : VOA Calibration
QLast Update : Sun Mar 24 06:12:19 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\MAR13-D\27MAR13\
Data File : H18LMBLK.D
Acq On : 27 Mar 2013 7:04 pm
Operator : AAP
Sample : MB VOC 032713A
Misc : MBLK 5.0ML SB
ALS Vial : 5 Sample Multiplier: 1

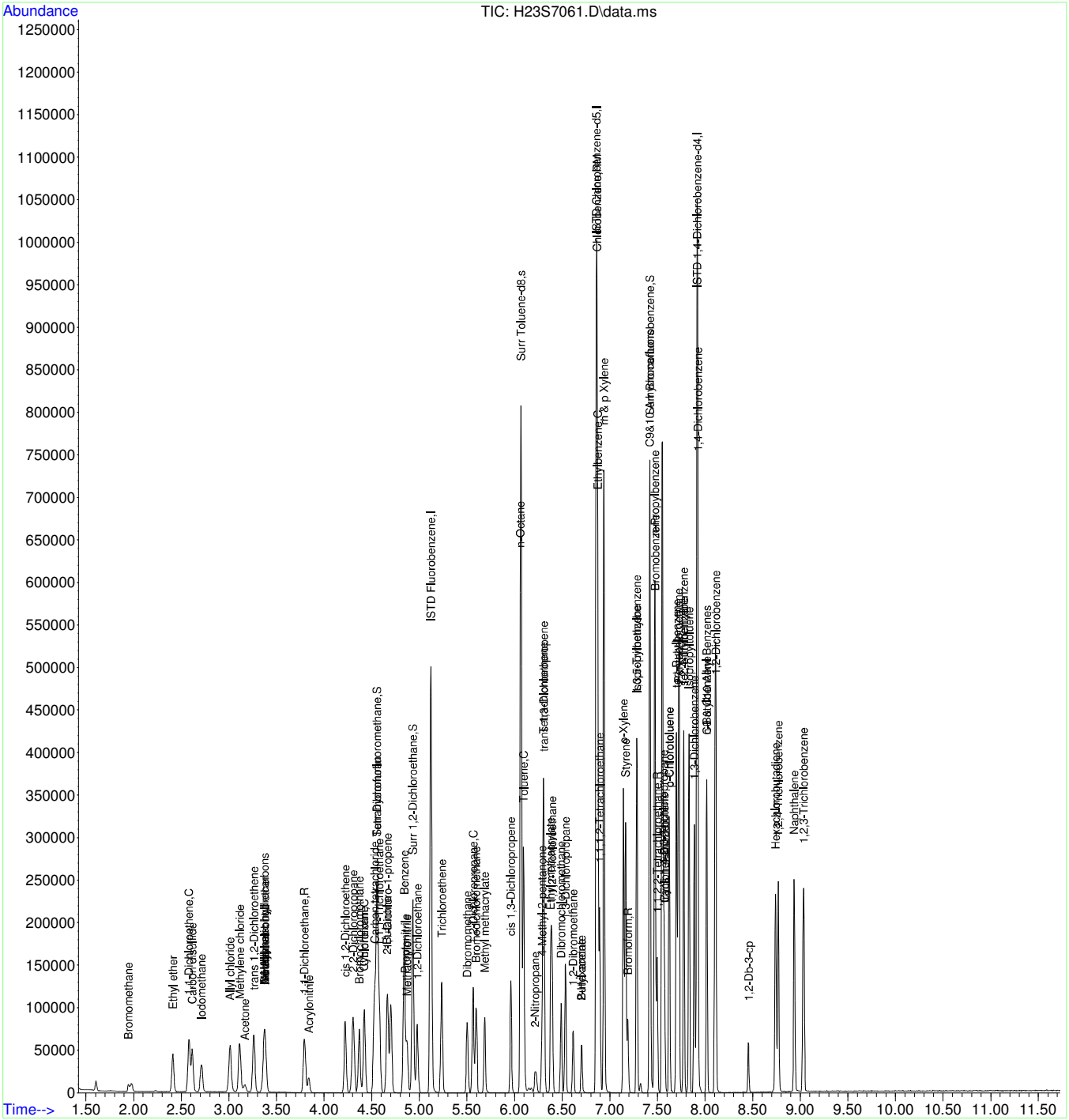
Quant Time: Mar 28 17:57:24 2013
Quant Method : C:\MSDCHEM\1\METHODS\DFULLW_14.M
Quant Title : VOA Calibration
QLast Update : Sun Mar 24 06:12:19 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\MAR13-D\27MAR13\
Data File : H23S7061.D
Acq On : 27 Mar 2013 8:39 pm
Operator : AAP
Sample : 1303706-001AMS
Misc : MS 5.0ML 1OF3 SB
ALS Vial : 10 Sample Multiplier: 1

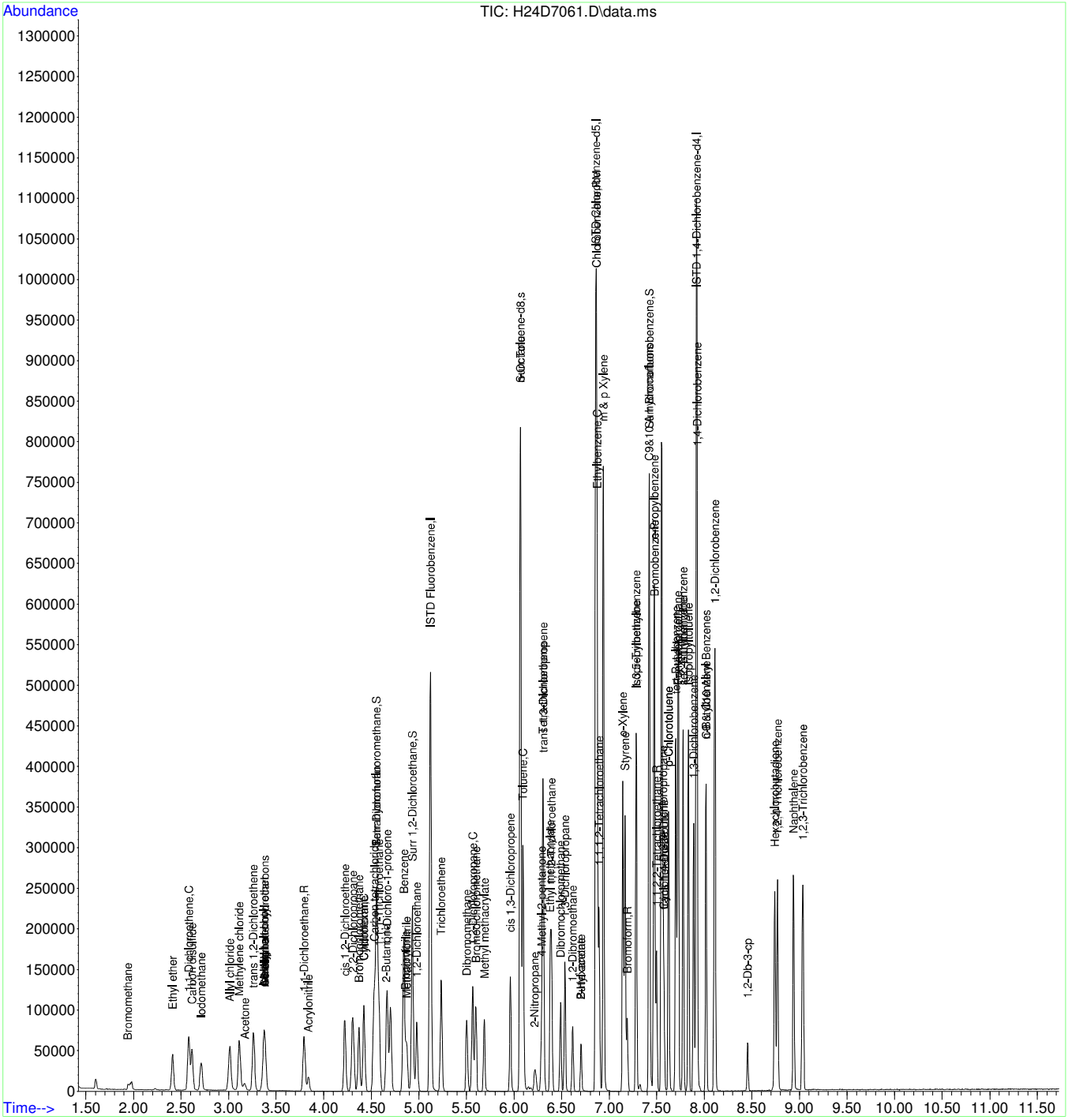
Quant Time: Mar 27 20:51:28 2013
Quant Method : C:\MSDCHEM\1\METHODS\DFULLW_14.M
Quant Title : VOA Calibration
QLast Update : Sun Mar 24 06:12:19 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

```
Data Path : C:\msdchem\1\data\MAR13-D\27MAR13\
Data File : H24D7061.D
Acq On    : 27 Mar 2013   8:58 pm
Operator  : AAP
Sample    : 1303706-001AMSD
Misc      : MSD         5.0ML   1OF3   SB
ALS Vial  : 11   Sample Multiplier: 1

Quant Time: Mar 27 21:10:27 2013
Quant Method : C:\MSDCHEM\1\METHODS\DFULLW_14.M
Quant Title  : VOA  Calibration
QLast Update : Sun Mar 24 06:12:19 2013
Response via : Initial Calibration
```



American West Analytical Laboratories

RUSH

D

WORK ORDER Summary

Work Order: **1303706**

Client: Utah Division of Water Quality

Due Date: 3/28/2013

Client ID: UTD200

Contact: Chris Bittner

Project: **MP 44.9**

QC Level: III

WO Type: Standard

Comments: Next Day Rush; QC 3. Include TICs on SVOC only. Send partial reports as results become available, bill accordingly.;

Sample ID	Client Sample ID	Collected Date	Received Date	Test Code	Matrix	Sel	Storage	
1303706-001A	**East of I-15 / 4920392**	3/27/2013 0900h	3/27/2013 1554h	**8260-W**	Aqueous	☑	Purge	3
				Test Group: 8260-W-Full; # of Analytes: 103 / # of Surr: 4				
1303706-001B				**3510-SVOA-PR**		☐	walkin - semi	2
				8270-W		☑	walkin - semi	
				Test Group: 8270-W-Custom; # of Analytes: 140 / # of Surr: 6				
				8270-W-SIM		☑	walkin - semi	
				Test Group: 8270-W-PNA-SIM; # of Analytes: 19 / # of Surr:				
1303706-001C				**3510-TPH-PR**		☐	Walkin-TPH (Liters)	
				8015-W-TPH(1L)		☑	Walkin-TPH (Liters)	
				Test Group: 8015-W-TPH1L; # of Analytes: 1 / # of Surr: 1				
1303706-002A	**South Marina / 4920495**	3/27/2013 0930h	3/27/2013 1554h	**8260-W**	Aqueous	☑	Purge	3
				Test Group: 8260-W-Full; # of Analytes: 103 / # of Surr: 4				
1303706-002B				**3510-SVOA-PR**		☐	walkin - semi	2
				8270-W		☑	walkin - semi	
				Test Group: 8270-W-Custom; # of Analytes: 140 / # of Surr: 6				
				8270-W-SIM		☑	walkin - semi	
				Test Group: 8270-W-PNA-SIM; # of Analytes: 19 / # of Surr:				
1303706-002C				**3510-TPH-PR**		☐	Walkin-TPH (Liters)	
				8015-W-TPH(1L)		☑	Walkin-TPH (Liters)	
				Test Group: 8015-W-TPH1L; # of Analytes: 1 / # of Surr: 1				
1303706-003A	**North Boom / 4920397**	3/27/2013 1030h	3/27/2013 1554h	**8260-W**	Aqueous	☑	Purge	3
				Test Group: 8260-W-Full; # of Analytes: 103 / # of Surr: 4				
1303706-003B				**3510-SVOA-PR**		☐	walkin - semi	2
				8270-W		☑	walkin - semi	
				Test Group: 8270-W-Custom; # of Analytes: 140 / # of Surr: 6				
				8270-W-SIM		☑	walkin - semi	
				Test Group: 8270-W-PNA-SIM; # of Analytes: 19 / # of Surr:				
1303706-003C				**3510-TPH-PR**		☐	Walkin-TPH (Liters)	
				8015-W-TPH(1L)		☑	Walkin-TPH (Liters)	
				Test Group: 8015-W-TPH1L; # of Analytes: 1 / # of Surr: 1				
1303706-004A	**W Boom 5 / 4920499**	3/27/2013 1050h	3/27/2013 1554h	**8260-W**	Aqueous	☑	Purge	3
				Test Group: 8260-W-Full; # of Analytes: 103 / # of Surr: 4				
1303706-004B				**3510-SVOA-PR**		☐	walkin - semi	2

Printed: 3/27/2013

FOR LABORATORY USE ONLY [fill out on page 1]: %M ☐ RT ☐ CN ☐ TAT ☐ QC ☐ HOK_____ HOK_____ HOK_____ COC Emailed_____

WORK ORDER Summary

Work Order: **1303706**

Client: Utah Division of Water Quality

Due Date: 3/28/2013

Sample ID	Client Sample ID	Collected Date	Received Date	Test Code	Matrix	Sel	Storage	
1303706-004B	**W Boom 5 / 4920499**	3/27/2013 1050h	3/27/2013 1554h	**8270-W**	Aqueous	☑	walkin - semi	2
				Test Group: 8270-W-Custom; # of Analytes: 140 / # of Surr: 6				
				8270-W-SIM		☑	walkin - semi	
				Test Group: 8270-W-PNA-SIM; # of Analytes: 19 / # of Surr:				
1303706-004C				**3510-TPH-PR**		☐	Walkin-TPH (Liters)	
				8015-W-TPH(1L)		☑	Walkin-TPH (Liters)	
				Test Group: 8015-W-TPH1L; # of Analytes: 1 / # of Surr: 1				
1303706-005A	**W Boom 4 / 4920498**	3/27/2013 1100h	3/27/2013 1554h	**8260-W**	Aqueous	☑	Purge	3
				Test Group: 8260-W-Full; # of Analytes: 103 / # of Surr: 4				
1303706-005B				**3510-SVOA-PR**		☐	walkin - semi	2
				8270-W		☑	walkin - semi	
				Test Group: 8270-W-Custom; # of Analytes: 140 / # of Surr: 6				
				8270-W-SIM		☑	walkin - semi	
				Test Group: 8270-W-PNA-SIM; # of Analytes: 19 / # of Surr:				
1303706-005C				**3510-TPH-PR**		☐	Walkin-TPH (Liters)	
				8015-W-TPH(1L)		☑	Walkin-TPH (Liters)	
				Test Group: 8015-W-TPH1L; # of Analytes: 1 / # of Surr: 1				
1303706-006A	**W Boom 3 / 4920497**	3/27/2013 1120h	3/27/2013 1554h	**8260-W**	Aqueous	☑	Purge	3
				Test Group: 8260-W-Full; # of Analytes: 103 / # of Surr: 4				
1303706-006B				**3510-SVOA-PR**		☐	walkin - semi	2
				8270-W		☑	walkin - semi	
				Test Group: 8270-W-Custom; # of Analytes: 140 / # of Surr: 6				
				8270-W-SIM		☑	walkin - semi	
				Test Group: 8270-W-PNA-SIM; # of Analytes: 19 / # of Surr:				
1303706-006C				**3510-TPH-PR**		☐	Walkin-TPH (Liters)	
				8015-W-TPH(1L)		☑	Walkin-TPH (Liters)	
				Test Group: 8015-W-TPH1L; # of Analytes: 1 / # of Surr: 1				
1303706-007A	**W Boom 2 / 4920496**	3/27/2013 1130h	3/27/2013 1554h	**8260-W**	Aqueous	☑	Purge	3
				Test Group: 8260-W-Full; # of Analytes: 103 / # of Surr: 4				
1303706-007B				**3510-SVOA-PR**		☐	walkin - semi	2
				8270-W		☑	walkin - semi	
				Test Group: 8270-W-Custom; # of Analytes: 140 / # of Surr: 6				
				8270-W-SIM		☑	walkin - semi	
				Test Group: 8270-W-PNA-SIM; # of Analytes: 19 / # of Surr:				
1303706-007C				**3510-TPH-PR**		☐	Walkin-TPH (Liters)	
				8015-W-TPH(1L)		☑	Walkin-TPH (Liters)	
				Test Group: 8015-W-TPH1L; # of Analytes: 1 / # of Surr: 1				
1303706-008A	**W Boom 1 / 4920396**	3/27/2013 1140h	3/27/2013 1554h	**8260-W**	Aqueous	☑	Purge	3
				Test Group: 8260-W-Full; # of Analytes: 103 / # of Surr: 4				
1303706-008B				**3510-SVOA-PR**		☐	walkin - semi	2

FOR LABORATORY USE ONLY [fill out on page 1]: %M ☐ RT ☐ CN ☐ TAT ☐ QC ☐ HOK_____ HOK_____ HOK_____ COC Emailed_____

WORK ORDER Summary

Work Order: **1303706**

Client: Utah Division of Water Quality

Due Date: 3/28/2013

Sample ID	Client Sample ID	Collected Date	Received Date	Test Code	Matrix	Sel	Storage	
1303706-008B	**W Boom 1 / 4920396**	3/27/2013 1140h	3/27/2013 1554h	**8270-W**	Aqueous	☑	walkin - semi	2
				Test Group: 8270-W-Custom; # of Analytes: 140 / # of Surr: 6				
				8270-W-SIM		☑	walkin - semi	
				Test Group: 8270-W-PNA-SIM; # of Analytes: 19 / # of Surr:				
1303706-008C				**3510-TPH-PR**		☐	Walkin-TPH (Liters)	
				8015-W-TPH(1L)		☑	Walkin-TPH (Liters)	
				Test Group: 8015-W-TPH1L; # of Analytes: 1 / # of Surr: 1				
1303706-009A	**50' From 0397 / 4920508**	3/27/2013 1040h	3/27/2013 1554h	**8260-W**	Aqueous	☑	Purge	3
				Test Group: 8260-W-Full; # of Analytes: 103 / # of Surr: 4				
1303706-009B				**3510-SVOA-PR**		☐	walkin - semi	2
				8270-W		☑	walkin - semi	
				Test Group: 8270-W-Custom; # of Analytes: 140 / # of Surr: 6				
				8270-W-SIM		☑	walkin - semi	
				Test Group: 8270-W-PNA-SIM; # of Analytes: 19 / # of Surr:				
1303706-009C				**3510-TPH-PR**		☐	Walkin-TPH (Liters)	
				8015-W-TPH(1L)		☑	Walkin-TPH (Liters)	
				Test Group: 8015-W-TPH1L; # of Analytes: 1 / # of Surr: 1				
1303706-010A	**50' From 0498 / 4920502**	3/27/2013 1110h	3/27/2013 1554h	**8260-W**	Aqueous	☑	Purge	3
				Test Group: 8260-W-Full; # of Analytes: 103 / # of Surr: 4				
1303706-010B				**3510-SVOA-PR**		☐	walkin - semi	2
				8270-W		☑	walkin - semi	
				Test Group: 8270-W-Custom; # of Analytes: 140 / # of Surr: 6				
				8270-W-SIM		☑	walkin - semi	
				Test Group: 8270-W-PNA-SIM; # of Analytes: 19 / # of Surr:				
1303706-010C				**3510-TPH-PR**		☐	Walkin-TPH (Liters)	
				8015-W-TPH(1L)		☑	Walkin-TPH (Liters)	
				Test Group: 8015-W-TPH1L; # of Analytes: 1 / # of Surr: 1				
1303706-011A	**50' From 0396 / 4920505**	3/27/2013 1150h	3/27/2013 1554h	**8260-W**	Aqueous	☑	Purge	3
				Test Group: 8260-W-Full; # of Analytes: 103 / # of Surr: 4				
1303706-011B				**3510-SVOA-PR**		☐	walkin - semi	2
				8270-W		☑	walkin - semi	
				Test Group: 8270-W-Custom; # of Analytes: 140 / # of Surr: 6				
				8270-W-SIM		☑	walkin - semi	
				Test Group: 8270-W-PNA-SIM; # of Analytes: 19 / # of Surr:				
1303706-011C				**3510-TPH-PR**		☐	Walkin-TPH (Liters)	
				8015-W-TPH(1L)		☑	Walkin-TPH (Liters)	
				Test Group: 8015-W-TPH1L; # of Analytes: 1 / # of Surr: 1				
1303706-012A	**Trip Blank**	3/27/2013	3/27/2013 1554h	**8260-W**	Aqueous	☑	Purge	3
				Test Group: 8260-W-Full; # of Analytes: 103 / # of Surr: 4				

FOR LABORATORY USE ONLY [fill out on page 1]: %M ☐ RT ☐ CN ☐ TAT ☐ QC ☐ HOK_____ HOK_____ HOK_____ COC Emailed_____

WORK ORDER Summary

Work Order: **1303706**

Client: Utah Division of Water Quality

Due Date: 3/28/2013

Sample ID	Client Sample ID	Collected Date	Received Date	Test Code	Matrix	Sel	Storage	
1303706-013A	**Field Blank**	3/27/2013 1330h	3/27/2013 1554h	**8260-W**	Aqueous	☑	Purge	3
				Test Group: 8260-W-Full; # of Analytes: 103 / # of Surr: 4				
1303706-014A	**East of Boom / 4920395**	3/27/2013 1345h	3/27/2013 1554h	**8260-W**	Aqueous	☑	Purge	3
				Test Group: 8260-W-Full; # of Analytes: 103 / # of Surr: 4				
1303706-014B				**3510-SVOA-PR**		☐	walkin - semi	2
				8270-W		☑	walkin - semi	
				Test Group: 8270-W-Custom; # of Analytes: 140 / # of Surr: 6				
				8270-W-SIM		☑	walkin - semi	
				Test Group: 8270-W-PNA-SIM; # of Analytes: 19 / # of Surr:				
1303706-014C				**3510-TPH-PR**		☐	Walkin-TPH (Liters)	
				8015-W-TPH(1L)		☑	Walkin-TPH (Liters)	
				Test Group: 8015-W-TPH1L; # of Analytes: 1 / # of Surr: 1				
1303706-015A	**Between Weirs / 4920394**	3/27/2013 1400h	3/27/2013 1554h	**8260-W**	Aqueous	☑	Purge	3
				Test Group: 8260-W-Full; # of Analytes: 103 / # of Surr: 4				
1303706-015B				**3510-SVOA-PR**		☐	walkin - semi	2
				8270-W		☑	walkin - semi	
				Test Group: 8270-W-Custom; # of Analytes: 140 / # of Surr: 6				
				8270-W-SIM		☑	walkin - semi	
				Test Group: 8270-W-PNA-SIM; # of Analytes: 19 / # of Surr:				
1303706-015C				**3510-TPH-PR**		☐	Walkin-TPH (Liters)	
				8015-W-TPH(1L)		☑	Walkin-TPH (Liters)	
				Test Group: 8015-W-TPH1L; # of Analytes: 1 / # of Surr: 1				
1303706-016A	**Between Weirs Dup / 4920394**	3/27/2013 1410h	3/27/2013 1554h	**8260-W**	Aqueous	☑	Purge	3
				Test Group: 8260-W-Full; # of Analytes: 103 / # of Surr: 4				
1303706-016B				**3510-SVOA-PR**		☐	walkin - semi	2
				8270-W		☑	walkin - semi	
				Test Group: 8270-W-Custom; # of Analytes: 140 / # of Surr: 6				
				8270-W-SIM		☑	walkin - semi	
				Test Group: 8270-W-PNA-SIM; # of Analytes: 19 / # of Surr:				
1303706-016C				**3510-TPH-PR**		☐	Walkin-TPH (Liters)	
				8015-W-TPH(1L)		☑	Walkin-TPH (Liters)	
				Test Group: 8015-W-TPH1L; # of Analytes: 1 / # of Surr: 1				

FOR LABORATORY USE ONLY [fill out on page 1]: %M ☐ RT ☐ CN ☐ TAT ☐ QC ☐ HOK_____ HOK_____ HOK_____ COC Emailed_____

Client UTAH DNR
Address 195 N 1950 W
SLC UT 84115
City State Zip
Phone 801 536 3600 Fax
Contact CHRIS BITTNER
E-mail CBITTNER@UTAH.GOV
Project Name MP 4.4.9
Project Number/P.O.#
Sampler Name A. ANDERSON / J. HARRIS

AMERICAN WEST ANALYTICAL LABORATORIES
463 West 3600 South
Salt Lake City, Utah 84115
(801) 263-8686
(888) 263-8686
Fax (801) 263-8687
Email:awal@awal-labs.com

CHAIN OF CUSTODY

Lab Sample Set # 1303706
Page _____ of _____

Turn Around Time (Circle One)
1 day 2 day 3 day 4 day 5 day Standard

	Sample ID		Date/Time Collected	Matrix	Number of Containers (Total)	8260C VOAS	8270D PNA SIM TIC	8015D DRO								QC LEVEL	COMMENTS
1	EAST OF I-15	4920392	3/27 9:00	W	7	X	X	X									
2	SOUTH MARINA	4920495	3/27 9:30	W	7	X	X	X									
3	NORTH BOOM	4920397	3/27 10:30	W	7												
4	W BOOM 5	4920499	3/27 10:50	W	7												
5	W BOOM 4	4920498	3/27 11:00	W	7												
6	W BOOM 3	4920497	3/27 11:20	W	7												
7	W BOOM 2	4920496	3/27 11:30	W	7												
8	W BOOM 1	4920396	3/27 11:40	W	7												
9	50' from 0397	4920508	3/27 10:40	W	7												
10	50' from 0498	4920502	3/27 11:10	W	7												
11	50' from 0396	4920505	3/27 11:50	W	7	X											
12	TRIP BLANK			W	3	X											

QC LEVEL: 1 2 2+ (3) 3+ 4

Relinquished By: Signature	Date	Received By: Signature	Date
PRINT NAME: JAMES HARRIS	Time 1534	PRINT NAME: Elma Hayward	Time 1554
Relinquished By: Signature	Date	Received By: Signature	Date
PRINT NAME	Time	PRINT NAME	Time
Relinquished By: Signature	Date	Received By: Signature	Date
PRINT NAME	Time	PRINT NAME	Time
Relinquished By: Signature	Date	Received By: Signature	Date
PRINT NAME	Time	PRINT NAME	Time

Special Instructions:

LABORATORY USE ONLY

SAMPLES WERE:
1 Shipped or hand delivered
Notes:
2 Ambient or Chilled
Notes:
3 Temperature 2.4
4 Received Broken/Leaking (Improperly Sealed) Y (N)
Notes:
5 Properly Preserved Y N
Checked at Bench Y N
Notes:
6 Received Within Holding Times Y N
Notes:

COC Tape Was:
1 Present on Outer Package Y N (NA)
2 Unbroken on Outer Package Y N (NA)
3 Present on Sample Y N (NA)
4 Unbroken on Sample Y N (NA)

Discrepancies Between Sample Labels and COC Record? Y (N)
Notes:

Client UTAH DWQ
Address 195 N. 1950 W
SLC UT 84115
City State Zip
Phone 801 536 3600 Fax
Contact CHRIS BITTNER
E-mail CBITTNER@UTAH.GOV
Project Name MP 44.9
Project Number/P.O.#
Sampler Name AANDERSON / J. HARRIS

AMERICAN WEST ANALYTICAL LABORATORIES
463 West 3600 South
Salt Lake City, Utah 84115

CHAIN OF CUSTODY

(801) 263-8686
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Lab Sample Set # 1303706
Page _____ of _____

Turn Around Time (Circle One)
1 day 2 day 3 day 4 day 5 day Standard

	Sample ID	Date/Time Collected	Matrix	Number of Containers (Total)	8260 VOAS	8270 PAH SIM	8015 DRO									QC LEVEL	COMMENTS
13	FIELD BLANK	3/27 13:30	W	3	X	~~X~~	~~X~~										
14	EAST OF BOOM 4920395	3/27 13:45	W	7	X	X	X										
15	BETWEEN WEIRS 4920394	3/27 14:00	W	7	X	X	X										
16	BETWEEN WEIRS DUP 4920394	3/27 14:10	W	7	X	X	X										

TESTS REQUIRED

QC LEVEL: 1 2 2+ 3 3+ 4

Relinquished By: Signature	Date	Received By: Signature	Date
	3/27/13		3/27/13
PRINT NAME JAMES HARRIS	Time 1554	PRINT NAME Elma Hafuse	Time 1554
Relinquished By: Signature	Date	Received By: Signature	Date
PRINT NAME	Time	PRINT NAME	Time
Relinquished By: Signature	Date	Received By: Signature	Date
PRINT NAME	Time	PRINT NAME	Time
Relinquished By: Signature	Date	Received By: Signature	Date
PRINT NAME	Time	PRINT NAME	Time

Special Instructions:

LABORATORY USE ONLY

SAMPLES WERE:
1 Shipped or hand delivered
Notes:
2 Ambient or Chilled
Notes:
3 Temperature 2.4
4 Received Broken/Leaking (Improperly Sealed) Y N
Notes:
5 Properly Preserved Y N
Checked at Bench Y N
Notes:
6 Received Within Holding Times Y N
Notes:

COC Tape Was:
1 Present on Outer Package Y N NA
2 Unbroken on Outer Package Y N NA
3 Present on Sample Y N NA
4 Unbroken on Sample Y N NA

Discrepancies Between Sample Labels and COC Record? Y N
Notes: