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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: 1303746

American West Analytical Laboratories received 16 sample(s) on 3/28/2013 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 14:33:22 -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:	1303746

Sample Receipt Information:

Date of Receipt:	3/28/2013
Date of Collection:	3/28/2013
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): Insufficient sample volume was available to perform normal extraction; these spikes were extracted at half volume on sample 1303746-002C. 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.

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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:	1303746

Sample Receipt Information:

Date of Receipt:	3/28/2013
Date of Collection:	3/28/2013
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 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.

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:	1303746

Sample Receipt Information:

Date of Receipt:	3/28/2013
Date of Collection:	3/28/2013
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. All samples, except for 1303746-012A and -016A, were received unpreserved with a pH >2. Analysis was performed within 7 day holding time. 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: 1303746-001C
Client Sample ID: East of I-15 / 4920392
Collection Date: 3/28/2013 750h
Received Date: 3/28/2013 1319h

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

Analyzed: 3/29/2013 1418h **Extracted:** 3/29/2013 848h
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	0.526	< 0.526	

Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 4-Bromofluorobenzene	460-00-4	0.198	0.4211	47.1	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: 1303746-002C
Client Sample ID: South Marina / 4920495
Collection Date: 3/28/2013 810h
Received Date: 3/28/2013 1319h

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

Analyzed: 3/29/2013 1437h **Extracted:** 3/29/2013 848h
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	0.180	0.4000	45.1	10-190	

Insufficient sample volume was provided to allow for a full volume analysis of the MS/MSD. Reduced sample volume for the MS/MSD was used as a result.

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ORGANIC ANALYTICAL REPORT

Client: Utah Division of Water Quality **Contact:** Chris Bittner
Project: MP 44.9
Lab Sample ID: 1303746-003C
Client Sample ID: North Boom / 4920397
Collection Date: 3/28/2013 930h
Received Date: 3/28/2013 1319h

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

Analyzed: 3/29/2013 1535h **Extracted:** 3/29/2013 848h
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	0.181	0.4000	45.3	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: 1303746-004C
Client Sample ID: W Boom 5 / 4920499
Collection Date: 3/28/2013 950h
Received Date: 3/28/2013 1319h

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

Analyzed: 3/29/2013 1555h **Extracted:** 3/29/2013 848h
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	0.150	0.4000	37.5	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: 1303746-005C
Client Sample ID: W Boom 4 / 4920498
Collection Date: 3/28/2013 1000h
Received Date: 3/28/2013 1319h

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

Analyzed: 3/29/2013 1614h **Extracted:** 3/29/2013 848h
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	0.174	0.4000	43.4	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: 1303746-006C
Client Sample ID: W Boom 3 / 4920497
Collection Date: 3/28/2013 1020h
Received Date: 3/28/2013 1319h

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

Analyzed: 3/29/2013 1633h **Extracted:** 3/29/2013 848h
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	0.182	0.4000	45.5	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: 1303746-007C
Client Sample ID: W Boom 2 / 4920496
Collection Date: 3/28/2013 1030h
Received Date: 3/28/2013 1319h

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

Analyzed: 3/29/2013 1653h **Extracted:** 3/29/2013 848h
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	**0.746**	

Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 4-Bromofluorobenzene	460-00-4	0.172	0.4000	43.0	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: 1303746-008C
Client Sample ID: W Boom 1 / 4920396
Collection Date: 3/28/2013 1040h
Received Date: 3/28/2013 1319h

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

Analyzed: 3/29/2013 1712h **Extracted:** 3/29/2013 848h
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	**1.82**	

Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 4-Bromofluorobenzene	460-00-4	0.185	0.4000	46.4	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: 1303746-009C
Client Sample ID: 50' From 0397 / 4920508
Collection Date: 3/28/2013 940h
Received Date: 3/28/2013 1319h

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

Analyzed: 3/29/2013 1732h **Extracted:** 3/29/2013 848h
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	0.210	0.4000	52.5	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: 1303746-010C
Client Sample ID: 50' From 0498 / 4920502
Collection Date: 3/28/2013 1010h
Received Date: 3/28/2013 1319h

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

Analyzed: 3/29/2013 1751h **Extracted:** 3/29/2013 848h
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	0.194	0.4000	48.5	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: 1303746-011C
Client Sample ID: 50' From 0396 / 4920505
Collection Date: 3/28/2013 1050h
Received Date: 3/28/2013 1319h

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

Analyzed: 3/29/2013 1948h **Extracted:** 3/29/2013 848h
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	0.198	0.4000	49.5	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: 1303746-014C
Client Sample ID: East of Boom / 4920395
Collection Date: 3/28/2013 1130h
Received Date: 3/28/2013 1319h

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

Analyzed: 3/29/2013 2008h **Extracted:** 3/29/2013 848h
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	**8.41**	

Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 4-Bromofluorobenzene	460-00-4	0.161	0.4000	40.4	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: 1303746-015C
Client Sample ID: Between Weirs / 4920394
Collection Date: 3/28/2013 1115h
Received Date: 3/28/2013 1319h

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

Analyzed: 3/29/2013 2027h **Extracted:** 3/29/2013 848h
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	**11.5**	

Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 4-Bromofluorobenzene	460-00-4	0.150	0.4000	37.5	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: 1303746-016C
Client Sample ID: Between Weirs Dup / 4920394
Collection Date: 3/28/2013 1120h
Received Date: 3/28/2013 1319h

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

Analyzed: 3/29/2013 2046h **Extracted:** 3/29/2013 848h
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	**11.2**	

Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 4-Bromofluorobenzene	460-00-4	0.133	0.4000	33.2	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: 1303746-001B
Client Sample ID: East of I-15 / 4920392
Collection Date: 3/28/2013 750h
Received Date: 3/28/2013 1319h

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

Analyzed: 4/1/2013 2303h **Extracted:** 3/28/2013 1746h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8270D

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
1-Methylnaphthalene	90-12-0	0.105	< 0.105	
2-Methylnaphthalene	91-57-6	0.105	< 0.105	
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	< 0.105	
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: 1303746-002B
Client Sample ID: South Marina / 4920495
Collection Date: 3/28/2013 810h
Received Date: 3/28/2013 1319h

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

Analyzed: 4/2/2013 023h **Extracted:** 3/28/2013 1746h
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: 1303746-003B
Client Sample ID: North Boom / 4920397
Collection Date: 3/28/2013 930h
Received Date: 3/28/2013 1319h

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

Analyzed: 4/2/2013 049h **Extracted:** 3/28/2013 1746h
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	< 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: 1303746-004B
Client Sample ID: W Boom 5 / 4920499
Collection Date: 3/28/2013 950h
Received Date: 3/28/2013 1319h

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

Analyzed: 4/2/2013 116h **Extracted:** 3/28/2013 1746h
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: 1303746-005B
Client Sample ID: W Boom 4 / 4920498
Collection Date: 3/28/2013 1000h
Received Date: 3/28/2013 1319h

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

Analyzed: 4/2/2013 143h **Extracted:** 3/28/2013 1746h
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	< 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: 1303746-006B
Client Sample ID: W Boom 3 / 4920497
Collection Date: 3/28/2013 1020h
Received Date: 3/28/2013 1319h

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

Analyzed: 4/2/2013 209h **Extracted:** 3/28/2013 1746h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8270D

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
1-Methylnaphthalene	90-12-0	0.100	**0.110**	
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: 1303746-007B
Client Sample ID: W Boom 2 / 4920496
Collection Date: 3/28/2013 1030h
Received Date: 3/28/2013 1319h

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

Analyzed: 4/2/2013 236h **Extracted:** 3/28/2013 1746h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8270D

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
1-Methylnaphthalene	90-12-0	0.100	**0.330**	
2-Methylnaphthalene	91-57-6	0.100	**0.240**	
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	**0.140**	
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: 1303746-008B
Client Sample ID: W Boom 1 / 4920396
Collection Date: 3/28/2013 1040h
Received Date: 3/28/2013 1319h

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

Analyzed: 4/2/2013 302h **Extracted:** 3/28/2013 1746h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8270D

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
1-Methylnaphthalene	90-12-0	0.100	**1.34**	
2-Methylnaphthalene	91-57-6	0.100	**0.930**	
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	**0.490**	
Phenanthrene	85-01-8	0.100	< 0.100	
Pyrene	129-00-0	0.100	< 0.100	

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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: 1303746-009B
Client Sample ID: 50' From 0397 / 4920508
Collection Date: 3/28/2013 940h
Received Date: 3/28/2013 1319h

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

Analyzed: 4/2/2013 329h **Extracted:** 3/28/2013 1746h
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: 1303746-010B
Client Sample ID: 50' From 0498 / 4920502
Collection Date: 3/28/2013 1010h
Received Date: 3/28/2013 1319h

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

Analyzed: 4/2/2013 355h **Extracted:** 3/28/2013 1746h
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: 1303746-011B
Client Sample ID: 50' From 0396 / 4920505
Collection Date: 3/28/2013 1050h
Received Date: 3/28/2013 1319h

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

Analyzed: 4/2/2013 422h **Extracted:** 3/28/2013 1746h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8270D

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
1-Methylnaphthalene	90-12-0	0.100	**0.220**	
2-Methylnaphthalene	91-57-6	0.100	**0.210**	
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	**0.120**	
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: 1303746-014B
Client Sample ID: East of Boom / 4920395
Collection Date: 3/28/2013 1130h
Received Date: 3/28/2013 1319h

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

Analyzed: 4/2/2013 448h **Extracted:** 3/28/2013 1746h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8270D

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
1-Methylnaphthalene	90-12-0	0.100	**3.92**	
2-Methylnaphthalene	91-57-6	0.100	**2.75**	
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	**1.48**	
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: 1303746-015B
Client Sample ID: Between Weirs / 4920394
Collection Date: 3/28/2013 1115h
Received Date: 3/28/2013 1319h

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

Analyzed: 4/2/2013 514h **Extracted:** 3/28/2013 1746h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8270D

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
1-Methylnaphthalene	90-12-0	0.100	**5.49**	
2-Methylnaphthalene	91-57-6	0.100	**3.64**	
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	**1.91**	
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: 1303746-016B
Client Sample ID: Between Weirs Dup / 4920394
Collection Date: 3/28/2013 1120h
Received Date: 3/28/2013 1319h

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

Analyzed: 4/2/2013 541h **Extracted:** 3/28/2013 1746h
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	**8.49**	
2-Methylnaphthalene	91-57-6	0.100	**5.51**	
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	**3.02**	
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: 1303746-001B
Client Sample ID: East of I-15 / 4920392
Collection Date: 3/28/2013 750h
Received Date: 3/28/2013 1319h

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

Analyzed: 3/29/2013 2254h **Extracted:** 3/28/2013 1746h
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	10.5	< 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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QA Officer

Lab Sample ID: 1303746-001B
Client Sample ID: East of I-15 / 4920392

Analyzed: 3/29/2013 2254h **Extracted:** 3/28/2013 1746h
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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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

Lab Sample ID: 1303746-001B
Client Sample ID: East of I-15 / 4920392

Analyzed: 3/29/2013 2254h **Extracted:** 3/28/2013 1746h
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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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

Lab Sample ID: 1303746-001B
Client Sample ID: East of I-15 / 4920392

Analyzed: 3/29/2013 2254h **Extracted:** 3/28/2013 1746h
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	

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Lab Sample ID: 1303746-001B
Client Sample ID: East of I-15 / 4920392

Analyzed: 3/29/2013 2254h **Extracted:** 3/28/2013 1746h
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	46.4	84.21	55.1	14-159	
Surr: 2-Fluorobiphenyl	321-60-8	14.9	42.11	35.4	10-124	
Surr: 2-Fluorophenol	367-12-4	13.9	84.21	16.5	10-106	
Surr: Nitrobenzene-d5	4165-60-0	13.1	42.11	31.0	10-180	
Surr: Phenol-d6	13127-88-3	9.91	84.21	11.8	10-122	
Surr: Terphenyl-d14	1718-51-0	39.8	42.11	94.5	10-221	

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

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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: 1303746-002B
Client Sample ID: South Marina / 4920495
Collection Date: 3/28/2013 810h
Received Date: 3/28/2013 1319h

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

Analyzed: 3/30/2013 014h **Extracted:** 3/28/2013 1746h
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: 1303746-002B
Client Sample ID: South Marina / 4920495

Analyzed: 3/30/2013 014h **Extracted:** 3/28/2013 1746h
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: 1303746-002B
Client Sample ID: South Marina / 4920495

Analyzed: 3/30/2013 014h **Extracted:** 3/28/2013 1746h
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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Jose Rocha
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Lab Sample ID: 1303746-002B
Client Sample ID: South Marina / 4920495

Analyzed: 3/30/2013 014h **Extracted:** 3/28/2013 1746h
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: n-Hexadecanoic acid	000057-10-3		4.52	JN
TIC: Thiophene, tetraphenyl-	001884-68-0		6.59	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: 1303746-002B
Client Sample ID: South Marina / 4920495

Analyzed: 3/30/2013 014h **Extracted:** 3/28/2013 1746h
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	50.6	80.00	63.2	14-159	
Surr: 2-Fluorobiphenyl	321-60-8	14.1	40.00	35.2	10-124	
Surr: 2-Fluorophenol	367-12-4	19.6	80.00	24.5	10-106	
Surr: Nitrobenzene-d5	4165-60-0	13.4	40.00	33.6	10-180	
Surr: Phenol-d6	13127-88-3	12.4	80.00	15.6	10-122	
Surr: Terphenyl-d14	1718-51-0	33.5	40.00	83.7	10-221	

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: 1303746-003B
Client Sample ID: North Boom / 4920397
Collection Date: 3/28/2013 930h
Received Date: 3/28/2013 1319h

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

Analyzed: 3/30/2013 041h **Extracted:** 3/28/2013 1746h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8270D

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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: 1303746-003B
Client Sample ID: North Boom / 4920397

Analyzed: 3/30/2013 041h **Extracted:** 3/28/2013 1746h
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: 1303746-003B
Client Sample ID: North Boom / 4920397

Analyzed: 3/30/2013 041h **Extracted:** 3/28/2013 1746h
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: 1303746-003B
Client Sample ID: North Boom / 4920397

Analyzed: 3/30/2013 041h **Extracted:** 3/28/2013 1746h
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	

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: 1303746-003B
Client Sample ID: North Boom / 4920397

Analyzed: 3/30/2013 041h **Extracted:** 3/28/2013 1746h
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	54.7	80.00	68.3	14-159	
Surr: 2-Fluorobiphenyl	321-60-8	16.5	40.00	41.2	10-124	
Surr: 2-Fluorophenol	367-12-4	27.7	80.00	34.7	10-106	
Surr: Nitrobenzene-d5	4165-60-0	15.1	40.00	37.8	10-180	
Surr: Phenol-d6	13127-88-3	17.1	80.00	21.4	10-122	
Surr: Terphenyl-d14	1718-51-0	33.8	40.00	84.5	10-221	

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

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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: 1303746-004B
Client Sample ID: W Boom 5 / 4920499
Collection Date: 3/28/2013 950h
Received Date: 3/28/2013 1319h

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

Analyzed: 3/30/2013 108h **Extracted:** 3/28/2013 1746h
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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Jose Rocha
QA Officer

Lab Sample ID: 1303746-004B
Client Sample ID: W Boom 5 / 4920499

Analyzed: 3/30/2013 108h **Extracted:** 3/28/2013 1746h
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: 1303746-004B
Client Sample ID: W Boom 5 / 4920499

Analyzed: 3/30/2013 108h **Extracted:** 3/28/2013 1746h
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: 1303746-004B
Client Sample ID: W Boom 5 / 4920499

Analyzed: 3/30/2013 108h **Extracted:** 3/28/2013 1746h
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: 1303746-004B
Client Sample ID: W Boom 5 / 4920499

Analyzed: 3/30/2013 108h **Extracted:** 3/28/2013 1746h
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	51.7	80.00	64.6	14-159	
Surr: 2-Fluorobiphenyl	321-60-8	14.2	40.00	35.5	10-124	
Surr: 2-Fluorophenol	367-12-4	22.4	80.00	28.1	10-106	
Surr: Nitrobenzene-d5	4165-60-0	13.6	40.00	33.9	10-180	
Surr: Phenol-d6	13127-88-3	14.4	80.00	18.0	10-122	
Surr: Terphenyl-d14	1718-51-0	34.6	40.00	86.6	10-221	

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

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Kyle F. Gross
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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: 1303746-005B
Client Sample ID: W Boom 4 / 4920498
Collection Date: 3/28/2013 1000h
Received Date: 3/28/2013 1319h

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

Analyzed: 3/30/2013 134h **Extracted:** 3/28/2013 1746h
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: 1303746-005B
Client Sample ID: W Boom 4 / 4920498

Analyzed: 3/30/2013 134h **Extracted:** 3/28/2013 1746h
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: 1303746-005B
Client Sample ID: W Boom 4 / 4920498

Analyzed: 3/30/2013 134h **Extracted:** 3/28/2013 1746h
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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Laboratory Director

Jose Rocha
QA Officer

Lab Sample ID: 1303746-005B
Client Sample ID: W Boom 4 / 4920498

Analyzed: 3/30/2013 134h **Extracted:** 3/28/2013 1746h
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	

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: 1303746-005B
Client Sample ID: W Boom 4 / 4920498

Analyzed: 3/30/2013 134h **Extracted:** 3/28/2013 1746h
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	53.9	80.00	67.4	14-159	
Surr: 2-Fluorobiphenyl	321-60-8	15.3	40.00	38.2	10-124	
Surr: 2-Fluorophenol	367-12-4	23.4	80.00	29.3	10-106	
Surr: Nitrobenzene-d5	4165-60-0	13.8	40.00	34.6	10-180	
Surr: Phenol-d6	13127-88-3	14.8	80.00	18.5	10-122	
Surr: Terphenyl-d14	1718-51-0	39.0	40.00	97.5	10-221	

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: 1303746-006B
Client Sample ID: W Boom 3 / 4920497
Collection Date: 3/28/2013 1020h
Received Date: 3/28/2013 1319h

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

Analyzed: 3/30/2013 201h **Extracted:** 3/28/2013 1746h
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: 1303746-006B
Client Sample ID: W Boom 3 / 4920497

Analyzed: 3/30/2013 201h **Extracted:** 3/28/2013 1746h
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: 1303746-006B
Client Sample ID: W Boom 3 / 4920497

Analyzed: 3/30/2013 201h **Extracted:** 3/28/2013 1746h
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: 1303746-006B
Client Sample ID: W Boom 3 / 4920497

Analyzed: 3/30/2013 201h **Extracted:** 3/28/2013 1746h
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: 1303746-006B
Client Sample ID: W Boom 3 / 4920497

Analyzed: 3/30/2013 201h **Extracted:** 3/28/2013 1746h
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	48.9	80.00	61.2	14-159	
Surr: 2-Fluorobiphenyl	321-60-8	12.0	40.00	29.9	10-124	
Surr: 2-Fluorophenol	367-12-4	14.3	80.00	17.9	10-106	
Surr: Nitrobenzene-d5	4165-60-0	9.76	40.00	24.4	10-180	
Surr: Phenol-d6	13127-88-3	9.82	80.00	12.3	10-122	
Surr: Terphenyl-d14	1718-51-0	36.5	40.00	91.2	10-221	

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: 1303746-007B
Client Sample ID: W Boom 2 / 4920496
Collection Date: 3/28/2013 1030h
Received Date: 3/28/2013 1319h

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

Analyzed: 3/30/2013 228h **Extracted:** 3/28/2013 1746h
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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Laboratory Director

Jose Rocha
QA Officer

Lab Sample ID: 1303746-007B
Client Sample ID: W Boom 2 / 4920496

Analyzed: 3/30/2013 228h **Extracted:** 3/28/2013 1746h
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
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Lab Sample ID: 1303746-007B
Client Sample ID: W Boom 2 / 4920496

Analyzed: 3/30/2013 228h **Extracted:** 3/28/2013 1746h
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: 1303746-007B
Client Sample ID: W Boom 2 / 4920496

Analyzed: 3/30/2013 228h **Extracted:** 3/28/2013 1746h
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(3H)-Isobenzofuranone, 3,3…	001689-09-4		4.22	JN
TIC: 1H-Indene, 1,1,3-trimethyl-	002177-45-9		6.13	JN
TIC: 3-Hydroxymethylene-2-indoli…	063273-23-4		6.41	JN

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Lab Sample ID: 1303746-007B
Client Sample ID: W Boom 2 / 4920496

Analyzed: 3/30/2013 228h **Extracted:** 3/28/2013 1746h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8270D

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
TIC: 5H-Benzocyclohepten-5-ol, 6…	035550-94-8		6.93	JN
TIC: Benzene, 1-methoxy-4-(1-met…	018272-83-8		4.19	JN
TIC: Ethanone, 1-[4-(1-methyleth…	000645-13-6		4.39	JN

Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 2,4,6-Tribromophenol	118-79-6	55.4	80.00	69.2	14-159	
Surr: 2-Fluorobiphenyl	321-60-8	12.8	40.00	32.1	10-124	
Surr: 2-Fluorophenol	367-12-4	18.8	80.00	23.4	10-106	
Surr: Nitrobenzene-d5	4165-60-0	11.4	40.00	28.5	10-180	
Surr: Phenol-d6	13127-88-3	12.3	80.00	15.3	10-122	
Surr: Terphenyl-d14	1718-51-0	37.5	40.00	93.8	10-221	

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: 1303746-008B
Client Sample ID: W Boom 1 / 4920396
Collection Date: 3/28/2013 1040h
Received Date: 3/28/2013 1319h

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

Analyzed: 3/30/2013 254h **Extracted:** 3/28/2013 1746h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8270D

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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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Lab Sample ID: 1303746-008B
Client Sample ID: W Boom 1 / 4920396

Analyzed: 3/30/2013 254h **Extracted:** 3/28/2013 1746h
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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Analyzed: 3/30/2013 254h **Extracted:** 3/28/2013 1746h
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: 1303746-008B
Client Sample ID: W Boom 1 / 4920396

Analyzed: 3/30/2013 254h **Extracted:** 3/28/2013 1746h
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		10.6	JN
TIC: 1,3-2H-Isobenzofuranone, 3,…	57732-90-8		13.8	JN
TIC: 1,3-Isobenzofurandione, 5,6…	005999-20-2		7.84	JN

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

Lab Sample ID: 1303746-008B
Client Sample ID: W Boom 1 / 4920396

Analyzed: 3/30/2013 254h **Extracted:** 3/28/2013 1746h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8270D

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
TIC: 1-Pentamethyldisilyloxyprop-2-ene	071821-60-8		13.8	JN
TIC: 2-Ethyl-1-H-indene	017059-50-6		13.5	JN
TIC: 5,8-Dimethyl-1,2,3,4-tetrah…	032820-12-5		14.8	JN
TIC: Benzene, 1,2,4-trimethyl-5-…	010222-95-4		8.69	JN
TIC: Benzene, 1,3-diisocyanato-2…	000091-08-7		9.85	JN
TIC: Benzene, hexamethyl-	000087-85-4		9.18	JN
TIC: Naphthalene, 1,2,3,4-tetrah…	000483-77-2		9.09	JN

Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 2,4,6-Tribromophenol	118-79-6	53.1	80.00	66.4	14-159	
Surr: 2-Fluorobiphenyl	321-60-8	13.2	40.00	33.1	10-124	
Surr: 2-Fluorophenol	367-12-4	21.1	80.00	26.4	10-106	
Surr: Nitrobenzene-d5	4165-60-0	15.4	40.00	38.5	10-180	
Surr: Phenol-d6	13127-88-3	14.0	80.00	17.5	10-122	
Surr: Terphenyl-d14	1718-51-0	36.0	40.00	89.9	10-221	

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: 1303746-009B
Client Sample ID: 50' From 0397 / 4920508
Collection Date: 3/28/2013 940h
Received Date: 3/28/2013 1319h

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

Analyzed: 3/30/2013 321h **Extracted:** 3/28/2013 1746h
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: 1303746-009B
Client Sample ID: 50' From 0397 / 4920508

Analyzed: 3/30/2013 321h **Extracted:** 3/28/2013 1746h
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: 1303746-009B
Client Sample ID: 50' From 0397 / 4920508

Analyzed: 3/30/2013 321h **Extracted:** 3/28/2013 1746h
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: 1303746-009B
Client Sample ID: 50' From 0397 / 4920508

Analyzed: 3/30/2013 321h **Extracted:** 3/28/2013 1746h
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	

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: 1303746-009B
Client Sample ID: 50' From 0397 / 4920508

Analyzed: 3/30/2013 321h **Extracted:** 3/28/2013 1746h
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	44.7	80.00	55.8	14-159	
Surr: 2-Fluorobiphenyl	321-60-8	11.3	40.00	28.3	10-124	
Surr: 2-Fluorophenol	367-12-4	12.6	80.00	15.8	10-106	
Surr: Nitrobenzene-d5	4165-60-0	9.15	40.00	22.9	10-180	
Surr: Phenol-d6	13127-88-3	8.47	80.00	10.6	10-122	
Surr: Terphenyl-d14	1718-51-0	37.6	40.00	94.1	10-221	

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

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Kyle F. Gross
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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: 1303746-010B
Client Sample ID: 50' From 0498 / 4920502
Collection Date: 3/28/2013 1010h
Received Date: 3/28/2013 1319h

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

Analyzed: 3/30/2013 347h **Extracted:** 3/28/2013 1746h
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: 1303746-010B
Client Sample ID: 50' From 0498 / 4920502

Analyzed: 3/30/2013 347h **Extracted:** 3/28/2013 1746h
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: 1303746-010B
Client Sample ID: 50' From 0498 / 4920502

Analyzed: 3/30/2013 347h **Extracted:** 3/28/2013 1746h
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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Laboratory Director

Jose Rocha
QA Officer

Lab Sample ID: 1303746-010B
Client Sample ID: 50' From 0498 / 4920502

Analyzed: 3/30/2013 347h **Extracted:** 3/28/2013 1746h
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: 1303746-010B
Client Sample ID: 50' From 0498 / 4920502

Analyzed: 3/30/2013 347h **Extracted:** 3/28/2013 1746h
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	99.6	80.00	125	14-159	
Surr: 2-Fluorobiphenyl	321-60-8	30.3	40.00	75.8	10-124	
Surr: 2-Fluorophenol	367-12-4	39.3	80.00	49.1	10-106	
Surr: Nitrobenzene-d5	4165-60-0	25.9	40.00	64.7	10-180	
Surr: Phenol-d6	13127-88-3	25.9	80.00	32.3	10-122	
Surr: Terphenyl-d14	1718-51-0	84.8	40.00	212	10-221	

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

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Kyle F. Gross
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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: 1303746-011B
Client Sample ID: 50' From 0396 / 4920505
Collection Date: 3/28/2013 1050h
Received Date: 3/28/2013 1319h

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

Analyzed: 3/30/2013 414h **Extracted:** 3/28/2013 1746h
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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Jose Rocha
QA Officer

Lab Sample ID: 1303746-011B
Client Sample ID: 50' From 0396 / 4920505

Analyzed: 3/30/2013 414h **Extracted:** 3/28/2013 1746h
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: 1303746-011B
Client Sample ID: 50' From 0396 / 4920505

Analyzed: 3/30/2013 414h **Extracted:** 3/28/2013 1746h
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: 1303746-011B
Client Sample ID: 50' From 0396 / 4920505

Analyzed: 3/30/2013 414h **Extracted:** 3/28/2013 1746h
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: 1303746-011B
Client Sample ID: 50' From 0396 / 4920505

Analyzed: 3/30/2013 414h **Extracted:** 3/28/2013 1746h
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	60.9	80.00	76.1	14-159	
Surr: 2-Fluorobiphenyl	321-60-8	19.8	40.00	49.4	10-124	
Surr: 2-Fluorophenol	367-12-4	24.1	80.00	30.1	10-106	
Surr: Nitrobenzene-d5	4165-60-0	16.9	40.00	42.4	10-180	
Surr: Phenol-d6	13127-88-3	15.4	80.00	19.2	10-122	
Surr: Terphenyl-d14	1718-51-0	38.1	40.00	95.2	10-221	

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

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ORGANIC ANALYTICAL REPORT

Client: Utah Division of Water Quality **Contact:** Chris Bittner
Project: MP 44.9
Lab Sample ID: 1303746-014B
Client Sample ID: East of Boom / 4920395
Collection Date: 3/28/2013 1130h
Received Date: 3/28/2013 1319h

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

Analyzed: 3/30/2013 440h **Extracted:** 3/28/2013 1746h
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: 1303746-014B
Client Sample ID: East of Boom / 4920395

Analyzed: 3/30/2013 440h **Extracted:** 3/28/2013 1746h
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: 1303746-014B
Client Sample ID: East of Boom / 4920395

Analyzed: 3/30/2013 440h **Extracted:** 3/28/2013 1746h
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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Laboratory Director

Jose Rocha
QA Officer

Lab Sample ID: 1303746-014B
Client Sample ID: East of Boom / 4920395

Analyzed: 3/30/2013 440h **Extracted:** 3/28/2013 1746h
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		33.1	JN
TIC: 2-Ethyl-1-H-indene	017059-50-6		41.4	JN
TIC: 2H-1-Benzopyran-2-one, 3,4-…	029598-22-9		39.3	JN

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Laboratory Director

Jose Rocha
QA Officer

Lab Sample ID: 1303746-014B
Client Sample ID: East of Boom / 4920395

Analyzed: 3/30/2013 440h **Extracted:** 3/28/2013 1746h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8270D

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
TIC: 5,8-Dimethyl-1,2,3,4-tetrah…	032820-12-5		26.1	JN
TIC: Benzene, 1,2-bis(1-methylet…	000577-55-9		21.5	JN
TIC: Benzene, 1,2-diethyl-3,4-di…	054410-75-2		42.9	JN
TIC: Benzene, 1,4-bis(1-methylethenyl)-	001605-18-1		26.2	JN
TIC: Benzo[b]thiophene, 2-ethyl-…	016587-51-2		26.0	JN
TIC: Naphthalene, 1,2,3,4-tetrah…	000483-77-2		28.6	JN
TIC: Nonadecane	000629-92-5		21.3	JN

Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 2,4,6-Tribromophenol	118-79-6	35.5	80.00	44.4	14-159	
Surr: 2-Fluorobiphenyl	321-60-8	9.19	40.00	23.0	10-124	
Surr: 2-Fluorophenol	367-12-4	17.7	80.00	22.1	10-106	
Surr: Nitrobenzene-d5	4165-60-0	11.5	40.00	28.8	10-180	
Surr: Phenol-d6	13127-88-3	13.1	80.00	16.4	10-122	
Surr: Terphenyl-d14	1718-51-0	37.4	40.00	93.6	10-221	

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: 1303746-015B
Client Sample ID: Between Weirs / 4920394
Collection Date: 3/28/2013 1115h
Received Date: 3/28/2013 1319h

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

Analyzed: 3/30/2013 507h **Extracted:** 3/28/2013 1746h
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: 1303746-015B
Client Sample ID: Between Weirs / 4920394

Analyzed: 3/30/2013 507h **Extracted:** 3/28/2013 1746h
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: 1303746-015B
Client Sample ID: Between Weirs / 4920394

Analyzed: 3/30/2013 507h **Extracted:** 3/28/2013 1746h
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: 1303746-015B
Client Sample ID: Between Weirs / 4920394

Analyzed: 3/30/2013 507h **Extracted:** 3/28/2013 1746h
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	**30.2**	
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…	051015-28-2		34.0	JN
TIC: 1,3,5-Cycloheptatriene, 3,4…	1000156-99-7		43.6	JN
TIC: 1H-Indene, 1,1-dimethyl-	018636-55-0		28.3	JN

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

Lab Sample ID: 1303746-015B
Client Sample ID: Between Weirs / 4920394

Analyzed: 3/30/2013 507h **Extracted:** 3/28/2013 1746h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8270D

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
TIC: 4-Methyl-2-(3-methyl-but-2-…	1000185-91-3		26.2	JN
TIC: 5,8-Dimethyl-1,2,3,4-tetrah…	032820-12-5		29.0	JN
TIC: Benzene, 1,2-diethyl-3,4-di…	054410-75-2		53.5	JN
TIC: Benzene, 1,4-bis(1-methylet…	001605-18-1		28.1	JN
TIC: Naphthalene, 1,2,3,4-tetrah…	000483-77-2		32.1	JN
TIC: Nonadecane	000629-92-5		45.5	JN
TIC: Pentadecane	000629-62-9		25.6	JN

Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 2,4,6-Tribromophenol	118-79-6	53.2	80.00	66.5	14-159	
Surr: 2-Fluorobiphenyl	321-60-8	14.0	40.00	35.1	10-124	
Surr: 2-Fluorophenol	367-12-4	15.8	80.00	19.7	10-106	
Surr: Nitrobenzene-d5	4165-60-0	9.70	40.00	24.3	10-180	
Surr: Phenol-d6	13127-88-3	11.6	80.00	14.5	10-122	
Surr: Terphenyl-d14	1718-51-0	30.9	40.00	77.3	10-221	

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: 1303746-016B
Client Sample ID: Between Weirs Dup / 4920394
Collection Date: 3/28/2013 1120h
Received Date: 3/28/2013 1319h

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

Analyzed: 3/30/2013 533h **Extracted:** 3/28/2013 1746h
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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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

Lab Sample ID: 1303746-016B
Client Sample ID: Between Weirs Dup / 4920394

Analyzed: 3/30/2013 533h **Extracted:** 3/28/2013 1746h
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: 1303746-016B
Client Sample ID: Between Weirs Dup / 4920394

Analyzed: 3/30/2013 533h **Extracted:** 3/28/2013 1746h
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: 1303746-016B
Client Sample ID: Between Weirs Dup / 4920394

Analyzed: 3/30/2013 533h **Extracted:** 3/28/2013 1746h
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	**33.9**	
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-Methylpenta-2,4-dienyl)b…	1000210-01-1		26.7	JN
TIC: 1(2H)-Naphthalenone, 3,4-di…	051015-28-2		34.7	JN
TIC: 1,3,5-Cycloheptatriene, 3,4…	1000156-99-7		41.0	JN

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

Lab Sample ID: 1303746-016B
Client Sample ID: Between Weirs Dup / 4920394

Analyzed: 3/30/2013 533h **Extracted:** 3/28/2013 1746h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8270D

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
TIC: 4-Methyl-2-(3-methyl-but-2-…	1000185-91-3		26.2	JN
TIC: 5,8-Dimethyl-1,2,3,4-tetrah…	032820-12-5		27.2	JN
TIC: 5H-Benzocyclohepten-5-ol, 6…	035550-94-8		28.0	JN
TIC: Benzene, 1,4-bis(1-methylet…	000100-18-5		53.3	JN
TIC: Naphthalene, 1,2,3,4-tetrah…	000483-77-2		37.7	JN
TIC: Nonadecane	000629-92-5		46.9	JN
TIC: Pentadecane	000629-62-9		27.8	JN

Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 2,4,6-Tribromophenol	118-79-6	65.9	80.00	82.4	14-159	
Surr: 2-Fluorobiphenyl	321-60-8	19.3	40.00	48.2	10-124	
Surr: 2-Fluorophenol	367-12-4	24.5	80.00	30.6	10-106	
Surr: Nitrobenzene-d5	4165-60-0	14.9	40.00	37.3	10-180	
Surr: Phenol-d6	13127-88-3	17.8	80.00	22.3	10-122	
Surr: Terphenyl-d14	1718-51-0	36.3	40.00	90.8	10-221	

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: 1303746-001A
Client Sample ID: East of I-15 / 4920392
Collection Date: 3/28/2013 750h
Received Date: 3/28/2013 1319h

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

Analyzed: 3/28/2013 1712h
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: 1303746-001A
Client Sample ID: East of I-15 / 4920392

Analyzed: 3/28/2013 1712h
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: 1303746-001A
Client Sample ID: East of I-15 / 4920392

Analyzed: 3/28/2013 1712h
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: 1303746-001A
Client Sample ID: East of I-15 / 4920392

Analyzed: 3/28/2013 1712h
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	55.4	50.00	111	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	51.0	50.00	102	80-128	
Surr: Dibromofluoromethane	1868-53-7	51.9	50.00	104	80-124	
Surr: Toluene-d8	2037-26-5	49.7	50.00	99.4	77-129	

The pH of the sample was >2. Analysis was performed within the 7 day holding time.

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ORGANIC ANALYTICAL REPORT

Client: Utah Division of Water Quality **Contact:** Chris Bittner
Project: MP 44.9
Lab Sample ID: 1303746-002A
Client Sample ID: South Marina / 4920495
Collection Date: 3/28/2013 810h
Received Date: 3/28/2013 1319h

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

Analyzed: 3/28/2013 1730h
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: 1303746-002A
Client Sample ID: South Marina / 4920495

Analyzed: 3/28/2013 1730h
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: 1303746-002A
Client Sample ID: South Marina / 4920495

Analyzed: 3/28/2013 1730h
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: 1303746-002A
Client Sample ID: South Marina / 4920495

Analyzed: 3/28/2013 1730h
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	56.1	50.00	112	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	53.3	50.00	107	80-128	
Surr: Dibromofluoromethane	1868-53-7	52.2	50.00	104	80-124	
Surr: Toluene-d8	2037-26-5	49.3	50.00	98.7	77-129	

The pH of the sample was >2. Analysis was performed within the 7 day holding time.

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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: 1303746-003A
Client Sample ID: North Boom / 4920397
Collection Date: 3/28/2013 930h
Received Date: 3/28/2013 1319h

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

Analyzed: 3/28/2013 1827h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8260C

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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: 1303746-003A
Client Sample ID: North Boom / 4920397

Analyzed: 3/28/2013 1827h
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: 1303746-003A
Client Sample ID: North Boom / 4920397

Analyzed: 3/28/2013 1827h
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: 1303746-003A
Client Sample ID: North Boom / 4920397

Analyzed: 3/28/2013 1827h
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	52.6	50.00	105	80-128	
Surr: Dibromofluoromethane	1868-53-7	51.6	50.00	103	80-124	
Surr: Toluene-d8	2037-26-5	49.8	50.00	99.6	77-129	

The pH of the sample was >2. Analysis was performed within the 7 day holding time.

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ORGANIC ANALYTICAL REPORT

Client: Utah Division of Water Quality **Contact:** Chris Bittner
Project: MP 44.9
Lab Sample ID: 1303746-004A
Client Sample ID: W Boom 5 / 4920499
Collection Date: 3/28/2013 950h
Received Date: 3/28/2013 1319h

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

Analyzed: 3/28/2013 1846h
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: 1303746-004A
Client Sample ID: W Boom 5 / 4920499

Analyzed: 3/28/2013 1846h
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: 1303746-004A
Client Sample ID: W Boom 5 / 4920499

Analyzed: 3/28/2013 1846h
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: 1303746-004A
Client Sample ID: W Boom 5 / 4920499

Analyzed: 3/28/2013 1846h
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	56.2	50.00	112	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	52.2	50.00	104	80-128	
Surr: Dibromofluoromethane	1868-53-7	52.2	50.00	104	80-124	
Surr: Toluene-d8	2037-26-5	49.7	50.00	99.3	77-129	

The pH of the sample was >2. Analysis was performed within the 7 day holding time.

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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: 1303746-005A
Client Sample ID: W Boom 4 / 4920498
Collection Date: 3/28/2013 1000h
Received Date: 3/28/2013 1319h

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

Analyzed: 3/28/2013 1905h
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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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

Lab Sample ID: 1303746-005A
Client Sample ID: W Boom 4 / 4920498

Analyzed: 3/28/2013 1905h
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: 1303746-005A
Client Sample ID: W Boom 4 / 4920498

Analyzed: 3/28/2013 1905h
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: 1303746-005A
Client Sample ID: W Boom 4 / 4920498

Analyzed: 3/28/2013 1905h
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	56.2	50.00	112	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	52.0	50.00	104	80-128	
Surr: Dibromofluoromethane	1868-53-7	51.7	50.00	103	80-124	
Surr: Toluene-d8	2037-26-5	49.4	50.00	98.7	77-129	

The pH of the sample was >2. Analysis was performed within the 7 day holding time.

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ORGANIC ANALYTICAL REPORT

Client: Utah Division of Water Quality **Contact:** Chris Bittner
Project: MP 44.9
Lab Sample ID: 1303746-006A
Client Sample ID: W Boom 3 / 4920497
Collection Date: 3/28/2013 1020h
Received Date: 3/28/2013 1319h

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

Analyzed: 3/28/2013 1924h
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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Laboratory Director

Jose Rocha
QA Officer

Lab Sample ID: 1303746-006A
Client Sample ID: W Boom 3 / 4920497

Analyzed: 3/28/2013 1924h
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: 1303746-006A
Client Sample ID: W Boom 3 / 4920497

Analyzed: 3/28/2013 1924h
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: 1303746-006A
Client Sample ID: W Boom 3 / 4920497

Analyzed: 3/28/2013 1924h
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	56.2	50.00	112	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	51.3	50.00	103	80-128	
Surr: Dibromofluoromethane	1868-53-7	51.7	50.00	103	80-124	
Surr: Toluene-d8	2037-26-5	49.5	50.00	99.0	77-129	

The pH of the sample was >2. Analysis was performed within the 7 day holding time.

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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: 1303746-007A
Client Sample ID: W Boom 2 / 4920496
Collection Date: 3/28/2013 1030h
Received Date: 3/28/2013 1319h

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

Analyzed: 3/28/2013 1943h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8260C

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Kyle F. Gross
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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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Jose Rocha
QA Officer

Lab Sample ID: 1303746-007A
Client Sample ID: W Boom 2 / 4920496

Analyzed: 3/28/2013 1943h
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: 1303746-007A
Client Sample ID: W Boom 2 / 4920496

Analyzed: 3/28/2013 1943h
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: 1303746-007A
Client Sample ID: W Boom 2 / 4920496

Analyzed: 3/28/2013 1943h
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	55.8	50.00	112	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	50.7	50.00	101	80-128	
Surr: Dibromofluoromethane	1868-53-7	51.8	50.00	104	80-124	
Surr: Toluene-d8	2037-26-5	49.5	50.00	99.0	77-129	

The pH of the sample was >2. Analysis was performed within the 7 day holding time.

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ORGANIC ANALYTICAL REPORT

Client: Utah Division of Water Quality **Contact:** Chris Bittner
Project: MP 44.9
Lab Sample ID: 1303746-008A
Client Sample ID: W Boom 1 / 4920396
Collection Date: 3/28/2013 1040h
Received Date: 3/28/2013 1319h

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

Analyzed: 3/28/2013 2002h
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	**2.50**	
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: 1303746-008A
Client Sample ID: W Boom 1 / 4920396

Analyzed: 3/28/2013 2002h
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: 1303746-008A
Client Sample ID: W Boom 1 / 4920396

Analyzed: 3/28/2013 2002h
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: 1303746-008A
Client Sample ID: W Boom 1 / 4920396

Analyzed: 3/28/2013 2002h
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	56.1	50.00	112	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	49.6	50.00	99.1	80-128	
Surr: Dibromofluoromethane	1868-53-7	52.0	50.00	104	80-124	
Surr: Toluene-d8	2037-26-5	49.7	50.00	99.3	77-129	

The pH of the sample was >2. Analysis was performed within the 7 day holding time.

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ORGANIC ANALYTICAL REPORT

Client: Utah Division of Water Quality **Contact:** Chris Bittner
Project: MP 44.9
Lab Sample ID: 1303746-009A
Client Sample ID: 50' From 0397 / 4920508
Collection Date: 3/28/2013 940h
Received Date: 3/28/2013 1319h

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

Analyzed: 3/28/2013 2021h
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: 1303746-009A
Client Sample ID: 50' From 0397 / 4920508

Analyzed: 3/28/2013 2021h
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: 1303746-009A
Client Sample ID: 50' From 0397 / 4920508

Analyzed: 3/28/2013 2021h
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: 1303746-009A
Client Sample ID: 50' From 0397 / 4920508

Analyzed: 3/28/2013 2021h
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	55.8	50.00	112	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	52.8	50.00	106	80-128	
Surr: Dibromofluoromethane	1868-53-7	51.8	50.00	104	80-124	
Surr: Toluene-d8	2037-26-5	49.7	50.00	99.4	77-129	

The pH of the sample was >2. Analysis was performed within the 7 day holding time.

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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: 1303746-010A
Client Sample ID: 50' From 0498 / 4920502
Collection Date: 3/28/2013 1010h
Received Date: 3/28/2013 1319h

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

Analyzed: 3/28/2013 2040h
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: 1303746-010A
Client Sample ID: 50' From 0498 / 4920502

Analyzed: 3/28/2013 2040h
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: 1303746-010A
Client Sample ID: 50' From 0498 / 4920502

Analyzed: 3/28/2013 2040h
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: 1303746-010A
Client Sample ID: 50' From 0498 / 4920502

Analyzed: 3/28/2013 2040h
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	56.3	50.00	113	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	51.9	50.00	104	80-128	
Surr: Dibromofluoromethane	1868-53-7	51.8	50.00	104	80-124	
Surr: Toluene-d8	2037-26-5	49.8	50.00	99.6	77-129	

The pH of the sample was >2. Analysis was performed within the 7 day holding time.

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ORGANIC ANALYTICAL REPORT

Client: Utah Division of Water Quality **Contact:** Chris Bittner
Project: MP 44.9
Lab Sample ID: 1303746-011A
Client Sample ID: 50' From 0396 / 4920505
Collection Date: 3/28/2013 1050h
Received Date: 3/28/2013 1319h

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

Analyzed: 3/28/2013 2059h
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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Lab Sample ID: 1303746-011A
Client Sample ID: 50' From 0396 / 4920505

Analyzed: 3/28/2013 2059h
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: 1303746-011A
Client Sample ID: 50' From 0396 / 4920505

Analyzed: 3/28/2013 2059h
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: 1303746-011A
Client Sample ID: 50' From 0396 / 4920505

Analyzed: 3/28/2013 2059h
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	56.1	50.00	112	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	51.9	50.00	104	80-128	
Surr: Dibromofluoromethane	1868-53-7	51.7	50.00	103	80-124	
Surr: Toluene-d8	2037-26-5	49.1	50.00	98.3	77-129	

The pH of the sample was >2. Analysis was performed within the 7 day holding time.

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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: 1303746-012A
Client Sample ID: Trip Blank
Collection Date: 3/28/2013
Received Date: 3/28/2013 1319h

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

Analyzed: 3/28/2013 2118h
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: 1303746-012A
Client Sample ID: Trip Blank

Analyzed: 3/28/2013 2118h
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: 1303746-012A
Client Sample ID: Trip Blank

Analyzed: 3/28/2013 2118h
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: 1303746-012A
Client Sample ID: Trip Blank

Analyzed: 3/28/2013 2118h
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	57.0	50.00	114	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	52.5	50.00	105	80-128	
Surr: Dibromofluoromethane	1868-53-7	52.3	50.00	105	80-124	
Surr: Toluene-d8	2037-26-5	49.7	50.00	99.4	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: 1303746-013A
Client Sample ID: Field Blank
Collection Date: 3/28/2013 900h
Received Date: 3/28/2013 1319h

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

Analyzed: 3/28/2013 2137h
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
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Jose Rocha
QA Officer

Lab Sample ID: 1303746-013A
Client Sample ID: Field Blank

Analyzed: 3/28/2013 2137h
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: 1303746-013A
Client Sample ID: Field Blank

Analyzed: 3/28/2013 2137h
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: 1303746-013A
Client Sample ID: Field Blank

Analyzed: 3/28/2013 2137h
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	56.0	50.00	112	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	52.2	50.00	104	80-128	
Surr: Dibromofluoromethane	1868-53-7	51.8	50.00	104	80-124	
Surr: Toluene-d8	2037-26-5	49.2	50.00	98.3	77-129	

The pH of the sample was >2. Analysis was performed within the 7 day holding time.

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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: 1303746-014A
Client Sample ID: East of Boom / 4920395
Collection Date: 3/28/2013 1130h
Received Date: 3/28/2013 1319h

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

Analyzed: 3/28/2013 2156h
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	**8.17**	
1,2,4-Trichlorobenzene	120-82-1	2.00	< 2.00	
1,2,4-Trimethylbenzene	95-63-6	2.00	**13.0**	
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: 1303746-014A
Client Sample ID: East of Boom / 4920395

Analyzed: 3/28/2013 2156h
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: 1303746-014A
Client Sample ID: East of Boom / 4920395

Analyzed: 3/28/2013 2156h
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	**7.23**	
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	**6.21**	
o-Xylene	95-47-6	2.00	**3.03**	
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	**10.3**	

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Lab Sample ID: 1303746-014A
Client Sample ID: East of Boom / 4920395

Analyzed: 3/28/2013 2156h
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	56.6	50.00	113	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	48.5	50.00	97.0	80-128	
Surr: Dibromofluoromethane	1868-53-7	52.0	50.00	104	80-124	
Surr: Toluene-d8	2037-26-5	48.3	50.00	96.6	77-129	

The pH of the sample was >2. Analysis was performed within the 7 day holding time.

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ORGANIC ANALYTICAL REPORT

Client: Utah Division of Water Quality **Contact:** Chris Bittner
Project: MP 44.9
Lab Sample ID: 1303746-015A
Client Sample ID: Between Weirs / 4920394
Collection Date: 3/28/2013 1115h
Received Date: 3/28/2013 1319h

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

Analyzed: 3/28/2013 2215h
Units: µg/L **Dilution Factor:** 5 **Method:** SW8260C

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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	**11.9**	
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
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Lab Sample ID: 1303746-015A
Client Sample ID: Between Weirs / 4920394

Analyzed: 3/28/2013 2215h
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
QA Officer

Lab Sample ID: 1303746-015A
Client Sample ID: Between Weirs / 4920394

Analyzed: 3/28/2013 2215h
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: 1303746-015A
Client Sample ID: Between Weirs / 4920394

Analyzed: 3/28/2013 2215h
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	268	250.0	107	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	249	250.0	99.5	80-128	
Surr: Dibromofluoromethane	1868-53-7	258	250.0	103	80-124	
Surr: Toluene-d8	2037-26-5	253	250.0	101	77-129	

The pH of the sample was >2. Analysis was performed within the 7 day holding time.
The reporting limits were raised due to sample matrix interferences. Sample contained oil.

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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: 1303746-016A
Client Sample ID: Between Weirs Dup / 4920394
Collection Date: 3/28/2013 1120h
Received Date: 3/28/2013 1319h

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

Analyzed: 3/28/2013 2234h
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	< 10.0	
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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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

Lab Sample ID: 1303746-016A
Client Sample ID: Between Weirs Dup / 4920394

Analyzed: 3/28/2013 2234h
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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Lab Sample ID: 1303746-016A
Client Sample ID: Between Weirs Dup / 4920394

Analyzed: 3/28/2013 2234h
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: 1303746-016A

Client Sample ID: Between Weirs Dup / 4920394

Analyzed: 3/28/2013 2234h

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	264	250.0	106	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	254	250.0	102	80-128	
Surr: Dibromofluoromethane	1868-53-7	250	250.0	100	80-124	
Surr: Toluene-d8	2037-26-5	248	250.0	99.2	77-129	

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

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Jose Rocha
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QC SUMMARY REPORT

Client: Utah Division of Water Quality
Lab Set ID: 1303746
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-24462	Diesel Range Organics (DRO) (C10-C28)	mg/L	SW8015D	1.62	2.000	0	81.2	48-118				3/29/2013 1339h
LCS-24462	Surr: 4-Bromofluorobenzene	%REC	SW8015D	0.204	0.4000		51.0	18-95				3/29/2013 1339h

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Jose Rocha
QA Officer

QC SUMMARY REPORT

Client: Utah Division of Water Quality
Lab Set ID: 1303746
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-24462	Diesel Range Organics (DRO) (C10-C28)	mg/L	SW8015D	< 0.500				-				3/29/2013 1320h
MB-24462	Surr: 4-Bromofluorobenzene	%REC	SW8015D	0.180	0.4000		45.1	18-95				3/29/2013 1320h

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Laboratory Director

Jose Rocha
QA Officer

QC SUMMARY REPORT

Client: Utah Division of Water Quality
Lab Set ID: 1303746
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
1303746-002CMS	Diesel Range Organics (DRO) (C10-C28)	mg/L	SW8015D	1.57	2.000	0	78.3	60-161				3/29/2013 1456h
1303746-002CMS	Surr: 4-Bromofluorobenzene	%REC	SW8015D	0.209	0.4000		52.3	10-190				3/29/2013 1456h

Insufficient sample volume was provided to allow for a full volume analysis of the MS/MSD. Reduced sample volume for the MS/MSD was used as a result.

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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Jose Rocha
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QC SUMMARY REPORT

Client: Utah Division of Water Quality
Lab Set ID: 1303746
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
1303746-002CMSD	Diesel Range Organics (DRO) (C10-C28)	mg/L	SW8015D	1.56	2.000	0	78.1	60-161	0.348	25		3/29/2013 1516h
1303746-002CMSD	Surr: 4-Bromofluorobenzene	%REC	SW8015D	0.220	0.4000		55.0	10-190				3/29/2013 1516h

Insufficient sample volume was provided to allow for a full volume analysis of the MS/MSD. Reduced sample volume for the MS/MSD was used as a result.

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Jose Rocha
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QC SUMMARY REPORT

Client: Utah Division of Water Quality
Lab Set ID: 1303746
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-24457	1,2,4-Trichlorobenzene	µg/L	SW8270D	43.2	80.00	0	54.0	10-104				3/29/2013 2227h
LCS-24457	1,4-Dichlorobenzene	µg/L	SW8270D	29.4	80.00	0	36.7	10-118				3/29/2013 2227h
LCS-24457	2,4,6-Trichlorophenol	µg/L	SW8270D	66.7	80.00	0	83.3	17-119				3/29/2013 2227h
LCS-24457	2,4-Dimethylphenol	µg/L	SW8270D	61.8	80.00	0	77.2	10-131				3/29/2013 2227h
LCS-24457	2,4-Dinitrotoluene	µg/L	SW8270D	85.6	80.00	0	107	42-219				3/29/2013 2227h
LCS-24457	2-Chloronaphthalene	µg/L	SW8270D	31.1	80.00	0	38.9	23-126				3/29/2013 2227h
LCS-24457	2-Chlorophenol	µg/L	SW8270D	51.5	80.00	0	64.3	15-128				3/29/2013 2227h
LCS-24457	4,6-Dinitro-2-methylphenol	µg/L	SW8270D	90.2	80.00	0	113	30-198				3/29/2013 2227h
LCS-24457	4-Chloro-3-methylphenol	µg/L	SW8270D	74.0	80.00	0	92.5	29-148				3/29/2013 2227h
LCS-24457	4-Nitrophenol	µg/L	SW8270D	30.4	80.00	0	38.0	10-157				3/29/2013 2227h
LCS-24457	Acenaphthene	µg/L	SW8270D	64.8	80.00	0	81.0	20-116				3/29/2013 2227h
LCS-24457	Benzo(a)pyrene	µg/L	SW8270D	80.4	80.00	0	101	10-221				3/29/2013 2227h
LCS-24457	N-Nitrosodi-n-propylamine	µg/L	SW8270D	51.9	80.00	0	64.9	20-148				3/29/2013 2227h
LCS-24457	Pentachlorophenol	µg/L	SW8270D	80.8	80.00	0	101	21-153				3/29/2013 2227h
LCS-24457	Phenol	µg/L	SW8270D	28.3	80.00	0	35.4	10-131				3/29/2013 2227h
LCS-24457	Pyrene	µg/L	SW8270D	93.5	80.00	0	117	37-150				3/29/2013 2227h
LCS-24457	Surr: 2,4,6-Tribromophenol	%REC	SW8270D	79.0	80.00		98.7	10-165				3/29/2013 2227h
LCS-24457	Surr: 2-Fluorobiphenyl	%REC	SW8270D	27.2	40.00		68.0	10-118				3/29/2013 2227h
LCS-24457	Surr: 2-Fluorophenol	%REC	SW8270D	30.7	80.00		38.4	10-121				3/29/2013 2227h
LCS-24457	Surr: Nitrobenzene-d5	%REC	SW8270D	22.7	40.00		56.8	10-127				3/29/2013 2227h
LCS-24457	Surr: Phenol-d6	%REC	SW8270D	27.8	80.00		34.7	10-124				3/29/2013 2227h
LCS-24457	Surr: Terphenyl-d14	%REC	SW8270D	44.4	40.00		111	51-221				3/29/2013 2227h
LCS-24457	Acenaphthene	µg/L	SW8270D	77.0	80.00	0	96.2	23-159				4/1/2013 2236h
LCS-24457	Benzo(a)pyrene	µg/L	SW8270D	84.6	80.00	0	106	26-223				4/1/2013 2236h
LCS-24457	Pentachlorophenol	µg/L	SW8270D	151	80.00	0	189	10-249				4/1/2013 2236h
LCS-24457	Pyrene	µg/L	SW8270D	83.0	80.00	0	104	28-204				4/1/2013 2236h

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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: 1303746
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-24457	1,1´-Biphenyl	µg/L	SW8270D	< 10.0				-				3/29/2013 2200h
MB-24457	1,2,4,5-Tetrachlorobenzene	µg/L	SW8270D	< 10.0				-				3/29/2013 2200h
MB-24457	1,2,4-Trichlorobenzene	µg/L	SW8270D	< 10.0				-				3/29/2013 2200h
MB-24457	1,2-Dichlorobenzene	µg/L	SW8270D	< 10.0				-				3/29/2013 2200h
MB-24457	1,3,5-Trinitrobenzene	µg/L	SW8270D	< 10.0				-				3/29/2013 2200h
MB-24457	1,3-Dichlorobenzene	µg/L	SW8270D	< 10.0				-				3/29/2013 2200h
MB-24457	1,3-Dinitrobenzene	µg/L	SW8270D	< 10.0				-				3/29/2013 2200h
MB-24457	1,4-Dichlorobenzene	µg/L	SW8270D	< 10.0				-				3/29/2013 2200h
MB-24457	1,4-Dinitrobenzene	µg/L	SW8270D	< 10.0				-				3/29/2013 2200h
MB-24457	1,4-Naphthoquinone	µg/L	SW8270D	< 10.0				-				3/29/2013 2200h
MB-24457	1,4-Phenylenediamine	µg/L	SW8270D	< 10.0				-				3/29/2013 2200h
MB-24457	1-Chloronaphthalene	µg/L	SW8270D	< 10.0				-				3/29/2013 2200h
MB-24457	1-Methylnaphthalene	µg/L	SW8270D	< 10.0				-				3/29/2013 2200h
MB-24457	1-Naphthylamine	µg/L	SW8270D	< 10.0				-				3/29/2013 2200h
MB-24457	2,3,4,6-Tetrachlorophenol	µg/L	SW8270D	< 10.0				-				3/29/2013 2200h
MB-24457	2,4,5-Trichlorophenol	µg/L	SW8270D	< 10.0				-				3/29/2013 2200h
MB-24457	2,4,6-Trichlorophenol	µg/L	SW8270D	< 10.0				-				3/29/2013 2200h
MB-24457	2,4-Dichlorophenol	µg/L	SW8270D	< 10.0				-				3/29/2013 2200h
MB-24457	2,4-Dimethylphenol	µg/L	SW8270D	< 10.0				-				3/29/2013 2200h
MB-24457	2,4-Dinitrophenol	µg/L	SW8270D	< 10.0				-				3/29/2013 2200h
MB-24457	2,4-Dinitrotoluene	µg/L	SW8270D	< 10.0				-				3/29/2013 2200h
MB-24457	2,6-Dichlorophenol	µg/L	SW8270D	< 10.0				-				3/29/2013 2200h
MB-24457	2,6-Dinitrotoluene	µg/L	SW8270D	< 10.0				-				3/29/2013 2200h
MB-24457	2-Acetylaminofluorene	µg/L	SW8270D	< 10.0				-				3/29/2013 2200h
MB-24457	2-Chloronaphthalene	µg/L	SW8270D	< 10.0				-				3/29/2013 2200h
MB-24457	2-Chlorophenol	µg/L	SW8270D	< 10.0				-				3/29/2013 2200h
MB-24457	2-Methylnaphthalene	µg/L	SW8270D	< 10.0				-				3/29/2013 2200h

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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: 1303746
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-24457	2-Methylphenol	µg/L	SW8270D	< 10.0				-				3/29/2013 2200h
MB-24457	2-Naphthylamine	µg/L	SW8270D	< 10.0				-				3/29/2013 2200h
MB-24457	2-Nitroaniline	µg/L	SW8270D	< 10.0				-				3/29/2013 2200h
MB-24457	2-Nitrophenol	µg/L	SW8270D	< 10.0				-				3/29/2013 2200h
MB-24457	2-Picoline	µg/L	SW8270D	< 10.0				-				3/29/2013 2200h
MB-24457	3&4-Methylphenol	µg/L	SW8270D	< 10.0				-				3/29/2013 2200h
MB-24457	3,3´-Dichlorobenzidine	µg/L	SW8270D	< 10.0				-				3/29/2013 2200h
MB-24457	3,3´-Dimethylbenzidine	µg/L	SW8270D	< 10.0				-				3/29/2013 2200h
MB-24457	3-Methylcholanthrene	µg/L	SW8270D	< 10.0				-				3/29/2013 2200h
MB-24457	3-Nitroaniline	µg/L	SW8270D	< 10.0				-				3/29/2013 2200h
MB-24457	4,6-Dinitro-2-methylphenol	µg/L	SW8270D	< 10.0				-				3/29/2013 2200h
MB-24457	4-Aminobiphenyl	µg/L	SW8270D	< 10.0				-				3/29/2013 2200h
MB-24457	4-Bromophenyl phenyl ether	µg/L	SW8270D	< 10.0				-				3/29/2013 2200h
MB-24457	4-Chloro-3-methylphenol	µg/L	SW8270D	< 10.0				-				3/29/2013 2200h
MB-24457	4-Chloroaniline	µg/L	SW8270D	< 10.0				-				3/29/2013 2200h
MB-24457	4-Chlorophenyl phenyl ether	µg/L	SW8270D	< 10.0				-				3/29/2013 2200h
MB-24457	4-Nitroaniline	µg/L	SW8270D	< 10.0				-				3/29/2013 2200h
MB-24457	4-Nitrophenol	µg/L	SW8270D	< 10.0				-				3/29/2013 2200h
MB-24457	5-Nitro-o-toluidine	µg/L	SW8270D	< 10.0				-				3/29/2013 2200h
MB-24457	7,12-Dimethylbenz(a)anthracene	µg/L	SW8270D	< 10.0				-				3/29/2013 2200h
MB-24457	a,a-Dimethylphenethylamine	µg/L	SW8270D	< 10.0				-				3/29/2013 2200h
MB-24457	Acenaphthene	µg/L	SW8270D	< 10.0				-				3/29/2013 2200h
MB-24457	Acenaphthylene	µg/L	SW8270D	< 10.0				-				3/29/2013 2200h
MB-24457	Acetophenone	µg/L	SW8270D	< 10.0				-				3/29/2013 2200h
MB-24457	alpha-Terpineol	µg/L	SW8270D	< 10.0				-				3/29/2013 2200h
MB-24457	Aniline	µg/L	SW8270D	< 10.0				-				3/29/2013 2200h
MB-24457	Anthracene	µg/L	SW8270D	< 10.0				-				3/29/2013 2200h

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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: 1303746
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-24457	Aramite	µg/L	SW8270D	< 10.0				-				3/29/2013 2200h
MB-24457	Atrazine	µg/L	SW8270D	< 10.0				-				3/29/2013 2200h
MB-24457	Azobenzene	µg/L	SW8270D	< 10.0				-				3/29/2013 2200h
MB-24457	Benz(a)anthracene	µg/L	SW8270D	< 10.0				-				3/29/2013 2200h
MB-24457	Benzaldehyde	µg/L	SW8270D	< 10.0				-				3/29/2013 2200h
MB-24457	Benzidine	µg/L	SW8270D	< 10.0				-				3/29/2013 2200h
MB-24457	Benzo(a)pyrene	µg/L	SW8270D	< 10.0				-				3/29/2013 2200h
MB-24457	Benzo(b)fluoranthene	µg/L	SW8270D	< 10.0				-				3/29/2013 2200h
MB-24457	Benzo(g,h,i)perylene	µg/L	SW8270D	< 10.0				-				3/29/2013 2200h
MB-24457	Benzo(k)fluoranthene	µg/L	SW8270D	< 10.0				-				3/29/2013 2200h
MB-24457	Benzoic acid	µg/L	SW8270D	< 20.0				-				3/29/2013 2200h
MB-24457	Benzyl alcohol	µg/L	SW8270D	< 10.0				-				3/29/2013 2200h
MB-24457	Bis(2-chloroethoxy)methane	µg/L	SW8270D	< 10.0				-				3/29/2013 2200h
MB-24457	Bis(2-chloroethyl) ether	µg/L	SW8270D	< 10.0				-				3/29/2013 2200h
MB-24457	Bis(2-chloroisopropyl) ether	µg/L	SW8270D	< 10.0				-				3/29/2013 2200h
MB-24457	Bis(2-ethylhexyl) phthalate	µg/L	SW8270D	< 10.0				-				3/29/2013 2200h
MB-24457	bis(2-ethylhexyl)adipate	µg/L	SW8270D	< 10.0				-				3/29/2013 2200h
MB-24457	Butyl benzyl phthalate	µg/L	SW8270D	< 10.0				-				3/29/2013 2200h
MB-24457	Caprolactam	µg/L	SW8270D	< 10.0				-				3/29/2013 2200h
MB-24457	Carbazole	µg/L	SW8270D	< 10.0				-				3/29/2013 2200h
MB-24457	Chlorobenzilate	µg/L	SW8270D	< 10.0				-				3/29/2013 2200h
MB-24457	Chrysene	µg/L	SW8270D	< 10.0				-				3/29/2013 2200h
MB-24457	Diallate (cis or trans)	µg/L	SW8270D	< 10.0				-				3/29/2013 2200h
MB-24457	Dibenz(a,h)anthracene	µg/L	SW8270D	< 10.0				-				3/29/2013 2200h
MB-24457	Dibenzofuran	µg/L	SW8270D	< 10.0				-				3/29/2013 2200h
MB-24457	Diethyl phthalate	µg/L	SW8270D	< 10.0				-				3/29/2013 2200h
MB-24457	Dimethoate	µg/L	SW8270D	< 10.0				-				3/29/2013 2200h

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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: 1303746
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-24457	Dimethyl phthalate	µg/L	SW8270D	< 10.0				-				3/29/2013 2200h
MB-24457	Dimethylaminoazobenzene	µg/L	SW8270D	< 10.0				-				3/29/2013 2200h
MB-24457	Di-n-butyl phthalate	µg/L	SW8270D	< 10.0				-				3/29/2013 2200h
MB-24457	Di-n-octyl phthalate	µg/L	SW8270D	< 10.0				-				3/29/2013 2200h
MB-24457	Dinoseb	µg/L	SW8270D	< 10.0				-				3/29/2013 2200h
MB-24457	Diphenylamine	µg/L	SW8270D	< 10.0				-				3/29/2013 2200h
MB-24457	Disulfoton	µg/L	SW8270D	< 10.0				-				3/29/2013 2200h
MB-24457	Ethyl methanesulfonate	µg/L	SW8270D	< 10.0				-				3/29/2013 2200h
MB-24457	Famphur	µg/L	SW8270D	< 10.0				-				3/29/2013 2200h
MB-24457	Fluoranthene	µg/L	SW8270D	< 10.0				-				3/29/2013 2200h
MB-24457	Fluorene	µg/L	SW8270D	< 10.0				-				3/29/2013 2200h
MB-24457	Hexachlorobenzene	µg/L	SW8270D	< 10.0				-				3/29/2013 2200h
MB-24457	Hexachlorobutadiene	µg/L	SW8270D	< 10.0				-				3/29/2013 2200h
MB-24457	Hexachlorocyclopentadiene	µg/L	SW8270D	< 10.0				-				3/29/2013 2200h
MB-24457	Hexachloroethane	µg/L	SW8270D	< 10.0				-				3/29/2013 2200h
MB-24457	Hexachlorophene	µg/L	SW8270D	< 10.0				-				3/29/2013 2200h
MB-24457	Hexachloropropene	µg/L	SW8270D	< 10.0				-				3/29/2013 2200h
MB-24457	Indene	µg/L	SW8270D	< 10.0				-				3/29/2013 2200h
MB-24457	Indeno(1,2,3-cd)pyrene	µg/L	SW8270D	< 10.0				-				3/29/2013 2200h
MB-24457	Isodrin	µg/L	SW8270D	< 10.0				-				3/29/2013 2200h
MB-24457	Isophorone	µg/L	SW8270D	< 10.0				-				3/29/2013 2200h
MB-24457	Isosafrole	µg/L	SW8270D	< 10.0				-				3/29/2013 2200h
MB-24457	Kepone	µg/L	SW8270D	< 10.0				-				3/29/2013 2200h
MB-24457	Methapyrilene	µg/L	SW8270D	< 10.0				-				3/29/2013 2200h
MB-24457	Methyl methanesulfonate	µg/L	SW8270D	< 10.0				-				3/29/2013 2200h
MB-24457	Naphthalene	µg/L	SW8270D	< 10.0				-				3/29/2013 2200h
MB-24457	n-Decane	µg/L	SW8270D	< 10.0				-				3/29/2013 2200h

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QA Officer

QC SUMMARY REPORT

Client: Utah Division of Water Quality
Lab Set ID: 1303746
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-24457	Nitrobenzene	µg/L	SW8270D	< 10.0				-				3/29/2013 2200h
MB-24457	Nitroquinoline-1-oxide	µg/L	SW8270D	< 10.0				-				3/29/2013 2200h
MB-24457	N-Nitrosodiethylamine	µg/L	SW8270D	< 10.0				-				3/29/2013 2200h
MB-24457	N-Nitrosodimethylamine	µg/L	SW8270D	< 10.0				-				3/29/2013 2200h
MB-24457	N-Nitrosodi-n-butylamine	µg/L	SW8270D	< 10.0				-				3/29/2013 2200h
MB-24457	N-Nitrosodiphenylamine	µg/L	SW8270D	< 10.0				-				3/29/2013 2200h
MB-24457	N-Nitrosodi-n-propylamine	µg/L	SW8270D	< 10.0				-				3/29/2013 2200h
MB-24457	N-Nitrosomethylethylamine	µg/L	SW8270D	< 10.0				-				3/29/2013 2200h
MB-24457	N-Nitrosomorpholine	µg/L	SW8270D	< 10.0				-				3/29/2013 2200h
MB-24457	N-Nitrosopiperidine	µg/L	SW8270D	< 10.0				-				3/29/2013 2200h
MB-24457	N-Nitrosopyrrolidine	µg/L	SW8270D	< 10.0				-				3/29/2013 2200h
MB-24457	n-Octadecane	µg/L	SW8270D	< 10.0				-				3/29/2013 2200h
MB-24457	O,O,O-Triethyl phosphorothioate	µg/L	SW8270D	< 10.0				-				3/29/2013 2200h
MB-24457	o-Toluidine	µg/L	SW8270D	< 10.0				-				3/29/2013 2200h
MB-24457	Parathion	µg/L	SW8270D	< 10.0				-				3/29/2013 2200h
MB-24457	Methyl parathion	µg/L	SW8270D	< 10.0				-				3/29/2013 2200h
MB-24457	Pentachlorobenzene	µg/L	SW8270D	< 10.0				-				3/29/2013 2200h
MB-24457	Pentachloronitrobenzene	µg/L	SW8270D	< 10.0				-				3/29/2013 2200h
MB-24457	Pentachlorophenol	µg/L	SW8270D	< 10.0				-				3/29/2013 2200h
MB-24457	Phenacetin	µg/L	SW8270D	< 10.0				-				3/29/2013 2200h
MB-24457	Phenanthrene	µg/L	SW8270D	< 10.0				-				3/29/2013 2200h
MB-24457	Phenol	µg/L	SW8270D	< 10.0				-				3/29/2013 2200h
MB-24457	Phorate	µg/L	SW8270D	< 10.0				-				3/29/2013 2200h
MB-24457	Pronamide	µg/L	SW8270D	< 10.0				-				3/29/2013 2200h
MB-24457	Pyrene	µg/L	SW8270D	< 10.0				-				3/29/2013 2200h
MB-24457	Pyridine	µg/L	SW8270D	< 10.0				-				3/29/2013 2200h
MB-24457	Quinoline	µg/L	SW8270D	< 10.0				-				3/29/2013 2200h

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Jose Rocha
QA Officer

QC SUMMARY REPORT

Client: Utah Division of Water Quality
Lab Set ID: 1303746
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-24457	Safrole	µg/L	SW8270D	< 10.0				-				3/29/2013 2200h
MB-24457	Tetraethyl dithiopyrophosphate	µg/L	SW8270D	< 10.0				-				3/29/2013 2200h
MB-24457	Thionazin	µg/L	SW8270D	< 10.0				-				3/29/2013 2200h
MB-24457	Surr: 2,4,6-Tribromophenol	%REC	SW8270D	66.1	80.00		82.6	10-165				3/29/2013 2200h
MB-24457	Surr: 2-Fluorobiphenyl	%REC	SW8270D	21.2	40.00		53.0	10-118				3/29/2013 2200h
MB-24457	Surr: 2-Fluorophenol	%REC	SW8270D	27.2	80.00		34.0	10-121				3/29/2013 2200h
MB-24457	Surr: Nitrobenzene-d5	%REC	SW8270D	17.8	40.00		44.6	10-127				3/29/2013 2200h
MB-24457	Surr: Phenol-d6	%REC	SW8270D	18.7	80.00		23.4	10-124				3/29/2013 2200h
MB-24457	Surr: Terphenyl-d14	%REC	SW8270D	45.1	40.00		113	51-221				3/29/2013 2200h
MB-24457	1-Methylnaphthalene	µg/L	SW8270D	< 0.100				-				4/1/2013 2210h
MB-24457	2-Methylnaphthalene	µg/L	SW8270D	< 0.100				-				4/1/2013 2210h
MB-24457	Acenaphthene	µg/L	SW8270D	< 0.100				-				4/1/2013 2210h
MB-24457	Acenaphthylene	µg/L	SW8270D	< 0.100				-				4/1/2013 2210h
MB-24457	Anthracene	µg/L	SW8270D	< 0.100				-				4/1/2013 2210h
MB-24457	Benz(a)anthracene	µg/L	SW8270D	< 0.100				-				4/1/2013 2210h
MB-24457	Benzo(a)pyrene	µg/L	SW8270D	< 0.100				-				4/1/2013 2210h
MB-24457	Benzo(b)fluoranthene	µg/L	SW8270D	< 0.100				-				4/1/2013 2210h
MB-24457	Benzo(g,h,i)perylene	µg/L	SW8270D	< 0.100				-				4/1/2013 2210h
MB-24457	Benzo(k)fluoranthene	µg/L	SW8270D	< 0.100				-				4/1/2013 2210h
MB-24457	Chrysene	µg/L	SW8270D	< 0.100				-				4/1/2013 2210h
MB-24457	Dibenz(a,h)anthracene	µg/L	SW8270D	< 0.100				-				4/1/2013 2210h
MB-24457	Fluoranthene	µg/L	SW8270D	< 0.100				-				4/1/2013 2210h
MB-24457	Fluorene	µg/L	SW8270D	< 0.100				-				4/1/2013 2210h
MB-24457	Hexachlorobenzene	µg/L	SW8270D	< 1.00				-				4/1/2013 2210h
MB-24457	Indene	µg/L	SW8270D	< 0.100				-				4/1/2013 2210h
MB-24457	Indeno(1,2,3-cd)pyrene	µg/L	SW8270D	< 0.100				-				4/1/2013 2210h
MB-24457	Naphthalene	µg/L	SW8270D	< 0.100				-				4/1/2013 2210h

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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: 1303746
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-24457	Pentachlorophenol	µg/L	SW8270D	< 1.00				-				4/1/2013 2210h
MB-24457	Phenanthrene	µg/L	SW8270D	< 0.100				-				4/1/2013 2210h
MB-24457	Pyrene	µg/L	SW8270D	< 0.100				-				4/1/2013 2210h

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Laboratory Director

Jose Rocha
QA Officer

QC SUMMARY REPORT

Client: Utah Division of Water Quality
Lab Set ID: 1303746
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
1303746-001BMS	1,2,4-Trichlorobenzene	µg/L	SW8270D	34.3	84.21	0	40.8	20-107				3/29/2013 2321h
1303746-001BMS	1,4-Dichlorobenzene	µg/L	SW8270D	22.6	84.21	0	26.8	11-90				3/29/2013 2321h
1303746-001BMS	2,4,6-Trichlorophenol	µg/L	SW8270D	55.9	84.21	0	66.4	10-223				3/29/2013 2321h
1303746-001BMS	2,4-Dimethylphenol	µg/L	SW8270D	35.7	84.21	0	42.4	10-176				3/29/2013 2321h
1303746-001BMS	2,4-Dinitrotoluene	µg/L	SW8270D	76.9	84.21	0	91.3	21-191				3/29/2013 2321h
1303746-001BMS	2-Chloronaphthalene	µg/L	SW8270D	50.0	84.21	0	59.3	12-132				3/29/2013 2321h
1303746-001BMS	2-Chlorophenol	µg/L	SW8270D	42.9	84.21	0	51.0	20-107				3/29/2013 2321h
1303746-001BMS	4,6-Dinitro-2-methylphenol	µg/L	SW8270D	76.5	84.21	0	90.9	20-250				3/29/2013 2321h
1303746-001BMS	4-Chloro-3-methylphenol	µg/L	SW8270D	58.4	84.21	0	69.3	10-136				3/29/2013 2321h
1303746-001BMS	4-Nitrophenol	µg/L	SW8270D	25.3	84.21	0	30.1	10-135				3/29/2013 2321h
1303746-001BMS	Acenaphthene	µg/L	SW8270D	54.2	84.21	0	64.3	21-113				3/29/2013 2321h
1303746-001BMS	Benzo(a)pyrene	µg/L	SW8270D	68.1	84.21	0	80.8	15-169				3/29/2013 2321h
1303746-001BMS	N-Nitrosodi-n-propylamine	µg/L	SW8270D	43.3	84.21	0	51.4	10-133				3/29/2013 2321h
1303746-001BMS	Pentachlorophenol	µg/L	SW8270D	34.7	84.21	0	41.2	10-131				3/29/2013 2321h
1303746-001BMS	Phenol	µg/L	SW8270D	21.3	84.21	0	25.3	10-71				3/29/2013 2321h
1303746-001BMS	Pyrene	µg/L	SW8270D	82.6	84.21	0	98.1	23-150				3/29/2013 2321h
1303746-001BMS	Surr: 2,4,6-Tribromophenol	%REC	SW8270D	67.9	84.21		80.6	14-159				3/29/2013 2321h
1303746-001BMS	Surr: 2-Fluorobiphenyl	%REC	SW8270D	21.1	42.11		50.1	10-124				3/29/2013 2321h
1303746-001BMS	Surr: 2-Fluorophenol	%REC	SW8270D	26.9	84.21		32.0	10-106				3/29/2013 2321h
1303746-001BMS	Surr: Nitrobenzene-d5	%REC	SW8270D	18.7	42.11		44.3	10-180				3/29/2013 2321h
1303746-001BMS	Surr: Phenol-d6	%REC	SW8270D	22.3	84.21		26.4	10-122				3/29/2013 2321h
1303746-001BMS	Surr: Terphenyl-d14	%REC	SW8270D	37.4	42.11		88.8	10-221				3/29/2013 2321h
1303746-001BMS	Acenaphthene	µg/L	SW8270D	55.2	84.21	0	65.5	21-113				4/1/2013 2330h
1303746-001BMS	Benzo(a)pyrene	µg/L	SW8270D	67.6	84.21	0	80.3	15-169				4/1/2013 2330h
1303746-001BMS	Pentachlorophenol	µg/L	SW8270D	94.9	84.21	0	113	10-131				4/1/2013 2330h
1303746-001BMS	Pyrene	µg/L	SW8270D	68.6	84.21	0	81.5	23-150				4/1/2013 2330h

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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: 1303746
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
1303746-001BMSD	1,2,4-Trichlorobenzene	µg/L	SW8270D	32.7	84.21	0	38.9	20-107	4.71	25		3/29/2013 2348h
1303746-001BMSD	1,4-Dichlorobenzene	µg/L	SW8270D	21.4	84.21	0	25.4	11-90	5.41	25		3/29/2013 2348h
1303746-001BMSD	2,4,6-Trichlorophenol	µg/L	SW8270D	57.4	84.21	0	68.2	10-223	2.66	25		3/29/2013 2348h
1303746-001BMSD	2,4-Dimethylphenol	µg/L	SW8270D	36.2	84.21	0	43.0	10-176	1.4	25		3/29/2013 2348h
1303746-001BMSD	2,4-Dinitrotoluene	µg/L	SW8270D	77.7	84.21	0	92.2	21-191	1.05	25		3/29/2013 2348h
1303746-001BMSD	2-Chloronaphthalene	µg/L	SW8270D	49.4	84.21	0	58.6	12-132	1.14	25		3/29/2013 2348h
1303746-001BMSD	2-Chlorophenol	µg/L	SW8270D	42.9	84.21	0	50.9	20-107	0.0491	25		3/29/2013 2348h
1303746-001BMSD	4,6-Dinitro-2-methylphenol	µg/L	SW8270D	83.9	84.21	0	99.7	20-250	9.22	25		3/29/2013 2348h
1303746-001BMSD	4-Chloro-3-methylphenol	µg/L	SW8270D	61.0	84.21	0	72.5	10-136	4.46	25		3/29/2013 2348h
1303746-001BMSD	4-Nitrophenol	µg/L	SW8270D	27.9	84.21	0	33.1	10-135	9.65	25		3/29/2013 2348h
1303746-001BMSD	Acenaphthene	µg/L	SW8270D	51.5	84.21	0	61.1	21-113	5.1	25		3/29/2013 2348h
1303746-001BMSD	Benzo(a)pyrene	µg/L	SW8270D	71.3	84.21	0	84.7	15-169	4.62	25		3/29/2013 2348h
1303746-001BMSD	N-Nitrosodi-n-propylamine	µg/L	SW8270D	41.8	84.21	0	49.6	10-133	3.49	25		3/29/2013 2348h
1303746-001BMSD	Pentachlorophenol	µg/L	SW8270D	39.5	84.21	0	46.9	10-131	12.9	25		3/29/2013 2348h
1303746-001BMSD	Phenol	µg/L	SW8270D	21.4	84.21	0	25.5	10-71	0.739	25		3/29/2013 2348h
1303746-001BMSD	Pyrene	µg/L	SW8270D	82.2	84.21	0	97.6	23-150	0.562	25		3/29/2013 2348h
1303746-001BMSD	Surr: 2,4,6-Tribromophenol	%REC	SW8270D	70.9	84.21		84.2	14-159				3/29/2013 2348h
1303746-001BMSD	Surr: 2-Fluorobiphenyl	%REC	SW8270D	21.5	42.11		51.0	10-124				3/29/2013 2348h
1303746-001BMSD	Surr: 2-Fluorophenol	%REC	SW8270D	25.8	84.21		30.7	10-106				3/29/2013 2348h
1303746-001BMSD	Surr: Nitrobenzene-d5	%REC	SW8270D	18.3	42.11		43.4	10-180				3/29/2013 2348h
1303746-001BMSD	Surr: Phenol-d6	%REC	SW8270D	21.9	84.21		26.0	10-122				3/29/2013 2348h
1303746-001BMSD	Surr: Terphenyl-d14	%REC	SW8270D	40.3	42.11		95.8	10-221				3/29/2013 2348h
1303746-001BMSD	Acenaphthene	µg/L	SW8270D	61.9	84.21	0	73.5	21-113	11.5	25		4/1/2013 2356h
1303746-001BMSD	Benzo(a)pyrene	µg/L	SW8270D	73.3	84.21	0	87.0	15-169	8.07	25		4/1/2013 2356h
1303746-001BMSD	Pentachlorophenol	µg/L	SW8270D	103	84.21	0	122	10-131	8.09	25		4/1/2013 2356h
1303746-001BMSD	Pyrene	µg/L	SW8270D	74.3	84.21	0	88.3	23-150	7.95	25		4/1/2013 2356h

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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: 1303746
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 032813A	1,1,1-Trichloroethane	µg/L	SW8260C	23.7	20.00	0	118	59-156				3/28/2013 1517h
LCS VOC 032813A	1,1-Dichloroethene	µg/L	SW8260C	20.2	20.00	0	101	46-171				3/28/2013 1517h
LCS VOC 032813A	1,2-Dichlorobenzene	µg/L	SW8260C	23.1	20.00	0	116	67-135				3/28/2013 1517h
LCS VOC 032813A	1,2-Dichloroethane	µg/L	SW8260C	22.7	20.00	0	113	60-137				3/28/2013 1517h
LCS VOC 032813A	1,2-Dichloropropane	µg/L	SW8260C	21.5	20.00	0	107	59-135				3/28/2013 1517h
LCS VOC 032813A	Benzene	µg/L	SW8260C	22.1	20.00	0	110	62-127				3/28/2013 1517h
LCS VOC 032813A	Chlorobenzene	µg/L	SW8260C	22.3	20.00	0	111	63-140				3/28/2013 1517h
LCS VOC 032813A	Chloroform	µg/L	SW8260C	23.0	20.00	0	115	67-132				3/28/2013 1517h
LCS VOC 032813A	Ethylbenzene	µg/L	SW8260C	23.5	20.00	0	118	55-133				3/28/2013 1517h
LCS VOC 032813A	Isopropylbenzene	µg/L	SW8260C	25.1	20.00	0	126	60-147				3/28/2013 1517h
LCS VOC 032813A	Methyl tert-butyl ether	µg/L	SW8260C	20.9	20.00	0	104	37-189				3/28/2013 1517h
LCS VOC 032813A	Methylene chloride	µg/L	SW8260C	21.6	20.00	0	108	32-185				3/28/2013 1517h
LCS VOC 032813A	Naphthalene	µg/L	SW8260C	22.9	20.00	0	114	28-136				3/28/2013 1517h
LCS VOC 032813A	Tetrahydrofuran	µg/L	SW8260C	20.0	20.00	0	100	43-146				3/28/2013 1517h
LCS VOC 032813A	Toluene	µg/L	SW8260C	22.5	20.00	0	112	64-129				3/28/2013 1517h
LCS VOC 032813A	Trichloroethene	µg/L	SW8260C	22.6	20.00	0	113	54-152				3/28/2013 1517h
LCS VOC 032813A	Xylenes, Total	µg/L	SW8260C	72.4	60.00	0	121	52-134				3/28/2013 1517h
LCS VOC 032813A	Surr: 1,2-Dichloroethane-d4	%REC	SW8260C	53.1	50.00		106	76-138				3/28/2013 1517h
LCS VOC 032813A	Surr: 4-Bromofluorobenzene	%REC	SW8260C	50.1	50.00		100	77-121				3/28/2013 1517h
LCS VOC 032813A	Surr: Dibromofluoromethane	%REC	SW8260C	51.6	50.00		103	67-128				3/28/2013 1517h
LCS VOC 032813A	Surr: Toluene-d8	%REC	SW8260C	49.6	50.00		99.3	81-135				3/28/2013 1517h

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Jose Rocha
QA Officer

QC SUMMARY REPORT

Client: Utah Division of Water Quality
Lab Set ID: 1303746
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 032813A	1,1,1,2-Tetrachloroethane	µg/L	SW8260C	< 2.00				-				3/28/2013 1652h
MB VOC 032813A	1,1,1-Trichloroethane	µg/L	SW8260C	< 2.00				-				3/28/2013 1652h
MB VOC 032813A	1,1,2,2-Tetrachloroethane	µg/L	SW8260C	< 2.00				-				3/28/2013 1652h
MB VOC 032813A	1,1,2-Trichloro-1,2,2-trifluoroethane	µg/L	SW8260C	< 2.00				-				3/28/2013 1652h
MB VOC 032813A	1,1,2-Trichloroethane	µg/L	SW8260C	< 2.00				-				3/28/2013 1652h
MB VOC 032813A	1,1-Dichloropropene	µg/L	SW8260C	< 2.00				-				3/28/2013 1652h
MB VOC 032813A	1,1-Dichloroethane	µg/L	SW8260C	< 2.00				-				3/28/2013 1652h
MB VOC 032813A	1,1-Dichloroethene	µg/L	SW8260C	< 2.00				-				3/28/2013 1652h
MB VOC 032813A	1,2,3-Trichlorobenzene	µg/L	SW8260C	< 2.00				-				3/28/2013 1652h
MB VOC 032813A	1,2,3-Trichloropropane	µg/L	SW8260C	< 2.00				-				3/28/2013 1652h
MB VOC 032813A	1,2,3-Trimethylbenzene	µg/L	SW8260C	< 2.00				-				3/28/2013 1652h
MB VOC 032813A	1,2,4-Trichlorobenzene	µg/L	SW8260C	< 2.00				-				3/28/2013 1652h
MB VOC 032813A	1,2,4-Trimethylbenzene	µg/L	SW8260C	< 2.00				-				3/28/2013 1652h
MB VOC 032813A	1,2-Dibromo-3-chloropropane	µg/L	SW8260C	< 5.00				-				3/28/2013 1652h
MB VOC 032813A	1,2-Dibromoethane	µg/L	SW8260C	< 2.00				-				3/28/2013 1652h
MB VOC 032813A	1,2-Dichlorobenzene	µg/L	SW8260C	< 2.00				-				3/28/2013 1652h
MB VOC 032813A	1,2-Dichloroethane	µg/L	SW8260C	< 2.00				-				3/28/2013 1652h
MB VOC 032813A	1,2-Dichloropropane	µg/L	SW8260C	< 2.00				-				3/28/2013 1652h
MB VOC 032813A	1,3,5-Trimethylbenzene	µg/L	SW8260C	< 2.00				-				3/28/2013 1652h
MB VOC 032813A	1,3-Dichlorobenzene	µg/L	SW8260C	< 2.00				-				3/28/2013 1652h
MB VOC 032813A	1,3-Dichloropropane	µg/L	SW8260C	< 2.00				-				3/28/2013 1652h
MB VOC 032813A	1,4-Dichlorobenzene	µg/L	SW8260C	< 2.00				-				3/28/2013 1652h
MB VOC 032813A	1,4-Dioxane	µg/L	SW8260C	< 50.0				-				3/28/2013 1652h
MB VOC 032813A	2,2-Dichloropropane	µg/L	SW8260C	< 2.00				-				3/28/2013 1652h
MB VOC 032813A	2-Butanone	µg/L	SW8260C	< 10.0				-				3/28/2013 1652h
MB VOC 032813A	2-Chloroethyl vinyl ether	µg/L	SW8260C	< 5.00				-				3/28/2013 1652h

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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: 1303746
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 032813A	2-Chlorotoluene	µg/L	SW8260C	< 2.00				-				3/28/2013 1652h
MB VOC 032813A	2-Hexanone	µg/L	SW8260C	< 5.00				-				3/28/2013 1652h
MB VOC 032813A	2-Nitropropane	µg/L	SW8260C	< 5.00				-				3/28/2013 1652h
MB VOC 032813A	4-Chlorotoluene	µg/L	SW8260C	< 2.00				-				3/28/2013 1652h
MB VOC 032813A	4-Isopropyltoluene	µg/L	SW8260C	< 2.00				-				3/28/2013 1652h
MB VOC 032813A	4-Methyl-2-pentanone	µg/L	SW8260C	< 5.00				-				3/28/2013 1652h
MB VOC 032813A	Acetone	µg/L	SW8260C	< 10.0				-				3/28/2013 1652h
MB VOC 032813A	Acetonitrile	µg/L	SW8260C	< 5.00				-				3/28/2013 1652h
MB VOC 032813A	Acrolein	µg/L	SW8260C	< 5.00				-				3/28/2013 1652h
MB VOC 032813A	Acrylonitrile	µg/L	SW8260C	< 10.0				-				3/28/2013 1652h
MB VOC 032813A	Allyl chloride	µg/L	SW8260C	< 5.00				-				3/28/2013 1652h
MB VOC 032813A	Benzene	µg/L	SW8260C	< 2.00				-				3/28/2013 1652h
MB VOC 032813A	Benzyl chloride	µg/L	SW8260C	< 5.00				-				3/28/2013 1652h
MB VOC 032813A	Bis(2-chloroisopropyl) ether	µg/L	SW8260C	< 5.00				-				3/28/2013 1652h
MB VOC 032813A	Bromobenzene	µg/L	SW8260C	< 2.00				-				3/28/2013 1652h
MB VOC 032813A	Bromochloromethane	µg/L	SW8260C	< 2.00				-				3/28/2013 1652h
MB VOC 032813A	Bromodichloromethane	µg/L	SW8260C	< 2.00				-				3/28/2013 1652h
MB VOC 032813A	Bromoform	µg/L	SW8260C	< 2.00				-				3/28/2013 1652h
MB VOC 032813A	Bromomethane	µg/L	SW8260C	< 5.00				-				3/28/2013 1652h
MB VOC 032813A	Butyl acetate	µg/L	SW8260C	< 10.0				-				3/28/2013 1652h
MB VOC 032813A	Carbon disulfide	µg/L	SW8260C	< 2.00				-				3/28/2013 1652h
MB VOC 032813A	Carbon tetrachloride	µg/L	SW8260C	< 2.00				-				3/28/2013 1652h
MB VOC 032813A	Chlorobenzene	µg/L	SW8260C	< 2.00				-				3/28/2013 1652h
MB VOC 032813A	Chloroethane	µg/L	SW8260C	< 2.00				-				3/28/2013 1652h
MB VOC 032813A	Chloroform	µg/L	SW8260C	< 2.00				-				3/28/2013 1652h
MB VOC 032813A	Chloromethane	µg/L	SW8260C	< 3.00				-				3/28/2013 1652h
MB VOC 032813A	Chloroprene	µg/L	SW8260C	< 2.00				-				3/28/2013 1652h

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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: 1303746
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 032813A	cis-1,2-Dichloroethene	µg/L	SW8260C	< 2.00				-				3/28/2013 1652h
MB VOC 032813A	cis-1,3-Dichloropropene	µg/L	SW8260C	< 2.00				-				3/28/2013 1652h
MB VOC 032813A	Cyclohexane	µg/L	SW8260C	< 2.00				-				3/28/2013 1652h
MB VOC 032813A	Cyclohexanone	µg/L	SW8260C	< 50.0				-				3/28/2013 1652h
MB VOC 032813A	Dibromochloromethane	µg/L	SW8260C	< 2.00				-				3/28/2013 1652h
MB VOC 032813A	Dibromomethane	µg/L	SW8260C	< 2.00				-				3/28/2013 1652h
MB VOC 032813A	Dichlorodifluoromethane	µg/L	SW8260C	< 2.00				-				3/28/2013 1652h
MB VOC 032813A	Ethyl acetate	µg/L	SW8260C	< 10.0				-				3/28/2013 1652h
MB VOC 032813A	Ethyl ether	µg/L	SW8260C	< 10.0				-				3/28/2013 1652h
MB VOC 032813A	Ethyl methacrylate	µg/L	SW8260C	< 2.00				-				3/28/2013 1652h
MB VOC 032813A	Ethylbenzene	µg/L	SW8260C	< 2.00				-				3/28/2013 1652h
MB VOC 032813A	Hexachlorobutadiene	µg/L	SW8260C	< 2.00				-				3/28/2013 1652h
MB VOC 032813A	Iodomethane	µg/L	SW8260C	< 5.00				-				3/28/2013 1652h
MB VOC 032813A	Isobutyl alcohol	µg/L	SW8260C	< 100				-				3/28/2013 1652h
MB VOC 032813A	Isopropyl acetate	µg/L	SW8260C	< 10.0				-				3/28/2013 1652h
MB VOC 032813A	Isopropyl alcohol	µg/L	SW8260C	< 40.0				-				3/28/2013 1652h
MB VOC 032813A	Isopropylbenzene	µg/L	SW8260C	< 2.00				-				3/28/2013 1652h
MB VOC 032813A	m,p-Xylene	µg/L	SW8260C	< 2.00				-				3/28/2013 1652h
MB VOC 032813A	Methacrylonitrile	µg/L	SW8260C	< 5.00				-				3/28/2013 1652h
MB VOC 032813A	Methyl Acetate	µg/L	SW8260C	< 5.00				-				3/28/2013 1652h
MB VOC 032813A	Methyl methacrylate	µg/L	SW8260C	< 5.00				-				3/28/2013 1652h
MB VOC 032813A	Methyl tert-butyl ether	µg/L	SW8260C	< 2.00				-				3/28/2013 1652h
MB VOC 032813A	Methylcyclohexane	µg/L	SW8260C	< 2.00				-				3/28/2013 1652h
MB VOC 032813A	Methylene chloride	µg/L	SW8260C	< 2.00				-				3/28/2013 1652h
MB VOC 032813A	n-Amyl acetate	µg/L	SW8260C	< 10.0				-				3/28/2013 1652h
MB VOC 032813A	Naphthalene	µg/L	SW8260C	< 2.00				-				3/28/2013 1652h
MB VOC 032813A	n-Butyl alcohol	µg/L	SW8260C	< 100				-				3/28/2013 1652h

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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: 1303746
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 032813A	n-Butylbenzene	µg/L	SW8260C	< 2.00				-				3/28/2013 1652h
MB VOC 032813A	n-Hexane	µg/L	SW8260C	< 2.00				-				3/28/2013 1652h
MB VOC 032813A	n-Octane	µg/L	SW8260C	< 2.00				-				3/28/2013 1652h
MB VOC 032813A	n-Propylbenzene	µg/L	SW8260C	< 2.00				-				3/28/2013 1652h
MB VOC 032813A	o-Xylene	µg/L	SW8260C	< 2.00				-				3/28/2013 1652h
MB VOC 032813A	Pentachloroethane	µg/L	SW8260C	< 5.00				-				3/28/2013 1652h
MB VOC 032813A	Propionitrile	µg/L	SW8260C	< 25.0				-				3/28/2013 1652h
MB VOC 032813A	Propyl acetate	µg/L	SW8260C	< 10.0				-				3/28/2013 1652h
MB VOC 032813A	sec-Butylbenzene	µg/L	SW8260C	< 2.00				-				3/28/2013 1652h
MB VOC 032813A	Styrene	µg/L	SW8260C	< 2.00				-				3/28/2013 1652h
MB VOC 032813A	tert-Butyl alcohol	µg/L	SW8260C	< 20.0				-				3/28/2013 1652h
MB VOC 032813A	tert-Butylbenzene	µg/L	SW8260C	< 2.00				-				3/28/2013 1652h
MB VOC 032813A	Tetrachloroethene	µg/L	SW8260C	< 2.00				-				3/28/2013 1652h
MB VOC 032813A	Tetrahydrofuran	µg/L	SW8260C	< 2.00				-				3/28/2013 1652h
MB VOC 032813A	Toluene	µg/L	SW8260C	< 2.00				-				3/28/2013 1652h
MB VOC 032813A	trans-1,2-Dichloroethene	µg/L	SW8260C	< 2.00				-				3/28/2013 1652h
MB VOC 032813A	trans-1,3-Dichloropropene	µg/L	SW8260C	< 2.00				-				3/28/2013 1652h
MB VOC 032813A	trans-1,4-Dichloro-2-butene	µg/L	SW8260C	< 2.00				-				3/28/2013 1652h
MB VOC 032813A	Trichloroethene	µg/L	SW8260C	< 2.00				-				3/28/2013 1652h
MB VOC 032813A	Trichlorofluoromethane	µg/L	SW8260C	< 2.00				-				3/28/2013 1652h
MB VOC 032813A	Vinyl acetate	µg/L	SW8260C	< 10.0				-				3/28/2013 1652h
MB VOC 032813A	Vinyl chloride	µg/L	SW8260C	< 1.00				-				3/28/2013 1652h
MB VOC 032813A	Xylenes, Total	µg/L	SW8260C	< 2.00				-				3/28/2013 1652h
MB VOC 032813A	Surr: 1,2-Dichloroethane-d4	%REC	SW8260C	55.6	50.00		111	76-138				3/28/2013 1652h
MB VOC 032813A	Surr: 4-Bromofluorobenzene	%REC	SW8260C	53.3	50.00		107	77-121				3/28/2013 1652h
MB VOC 032813A	Surr: Dibromofluoromethane	%REC	SW8260C	51.3	50.00		103	67-128				3/28/2013 1652h
MB VOC 032813A	Surr: Toluene-d8	%REC	SW8260C	50.0	50.00		100	81-135				3/28/2013 1652h

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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: 1303746
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
1303746-001AMS	1,1,1-Trichloroethane	µg/L	SW8260C	23.0	20.00	0	115	67-147				3/28/2013 1749h
1303746-001AMS	1,1-Dichloroethene	µg/L	SW8260C	19.5	20.00	0	97.6	51-152				3/28/2013 1749h
1303746-001AMS	1,2-Dichlorobenzene	µg/L	SW8260C	20.4	20.00	0	102	70-130				3/28/2013 1749h
1303746-001AMS	1,2-Dichloroethane	µg/L	SW8260C	21.4	20.00	0	107	39-162				3/28/2013 1749h
1303746-001AMS	1,2-Dichloropropane	µg/L	SW8260C	19.2	20.00	0	95.9	59-135				3/28/2013 1749h
1303746-001AMS	Benzene	µg/L	SW8260C	20.4	20.00	0	102	66-145				3/28/2013 1749h
1303746-001AMS	Chlorobenzene	µg/L	SW8260C	20.5	20.00	0	103	63-140				3/28/2013 1749h
1303746-001AMS	Chloroform	µg/L	SW8260C	21.6	20.00	0	108	50-146				3/28/2013 1749h
1303746-001AMS	Ethylbenzene	µg/L	SW8260C	21.6	20.00	0	108	69-133				3/28/2013 1749h
1303746-001AMS	Isopropylbenzene	µg/L	SW8260C	22.9	20.00	0	114	60-147				3/28/2013 1749h
1303746-001AMS	Methyl tert-butyl ether	µg/L	SW8260C	19.9	20.00	0	99.4	37-189				3/28/2013 1749h
1303746-001AMS	Methylene chloride	µg/L	SW8260C	20.9	20.00	0	104	30-192				3/28/2013 1749h
1303746-001AMS	Naphthalene	µg/L	SW8260C	19.4	20.00	0	97.2	41-131				3/28/2013 1749h
1303746-001AMS	Tetrahydrofuran	µg/L	SW8260C	17.2	20.00	0	86.2	43-146				3/28/2013 1749h
1303746-001AMS	Toluene	µg/L	SW8260C	20.5	20.00	0	102	18-192				3/28/2013 1749h
1303746-001AMS	Trichloroethene	µg/L	SW8260C	20.1	20.00	0	101	61-153				3/28/2013 1749h
1303746-001AMS	Xylenes, Total	µg/L	SW8260C	65.2	60.00	0	109	42-167				3/28/2013 1749h
1303746-001AMS	Surr: 1,2-Dichloroethane-d4	%REC	SW8260C	56.4	50.00		113	72-151				3/28/2013 1749h
1303746-001AMS	Surr: 4-Bromofluorobenzene	%REC	SW8260C	48.4	50.00		96.7	80-128				3/28/2013 1749h
1303746-001AMS	Surr: Dibromofluoromethane	%REC	SW8260C	53.2	50.00		106	80-124				3/28/2013 1749h
1303746-001AMS	Surr: Toluene-d8	%REC	SW8260C	48.7	50.00		97.3	77-129				3/28/2013 1749h

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Laboratory Director

Jose Rocha
QA Officer

QC SUMMARY REPORT

Client: Utah Division of Water Quality
Lab Set ID: 1303746
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
1303746-001AMSD	1,1,1-Trichloroethane	µg/L	SW8260C	23.4	20.00	0	117	67-147	1.9	25		3/28/2013 1808h
1303746-001AMSD	1,1-Dichloroethene	µg/L	SW8260C	19.9	20.00	0	99.4	51-152	1.88	25		3/28/2013 1808h
1303746-001AMSD	1,2-Dichlorobenzene	µg/L	SW8260C	21.0	20.00	0	105	70-130	2.7	25		3/28/2013 1808h
1303746-001AMSD	1,2-Dichloroethane	µg/L	SW8260C	21.8	20.00	0	109	39-162	1.76	25		3/28/2013 1808h
1303746-001AMSD	1,2-Dichloropropane	µg/L	SW8260C	19.9	20.00	0	99.4	59-135	3.59	25		3/28/2013 1808h
1303746-001AMSD	Benzene	µg/L	SW8260C	20.9	20.00	0	104	66-145	2.28	25		3/28/2013 1808h
1303746-001AMSD	Chlorobenzene	µg/L	SW8260C	21.0	20.00	0	105	63-140	2.17	25		3/28/2013 1808h
1303746-001AMSD	Chloroform	µg/L	SW8260C	21.9	20.00	0	109	50-146	1.06	25		3/28/2013 1808h
1303746-001AMSD	Ethylbenzene	µg/L	SW8260C	21.9	20.00	0	110	69-133	1.42	25		3/28/2013 1808h
1303746-001AMSD	Isopropylbenzene	µg/L	SW8260C	23.6	20.00	0	118	60-147	3.1	25		3/28/2013 1808h
1303746-001AMSD	Methyl tert-butyl ether	µg/L	SW8260C	20.2	20.00	0	101	37-189	1.35	25		3/28/2013 1808h
1303746-001AMSD	Methylene chloride	µg/L	SW8260C	21.7	20.00	0	108	30-192	3.62	25		3/28/2013 1808h
1303746-001AMSD	Naphthalene	µg/L	SW8260C	20.2	20.00	0	101	41-131	3.64	25		3/28/2013 1808h
1303746-001AMSD	Tetrahydrofuran	µg/L	SW8260C	17.3	20.00	0	86.3	43-146	0.174	25		3/28/2013 1808h
1303746-001AMSD	Toluene	µg/L	SW8260C	20.8	20.00	0	104	18-192	1.79	25		3/28/2013 1808h
1303746-001AMSD	Trichloroethene	µg/L	SW8260C	20.5	20.00	0	102	61-153	1.82	25		3/28/2013 1808h
1303746-001AMSD	Xylenes, Total	µg/L	SW8260C	66.9	60.00	0	112	42-167	2.65	25		3/28/2013 1808h
1303746-001AMSD	Surr: 1,2-Dichloroethane-d4	%REC	SW8260C	55.6	50.00		111	72-151				3/28/2013 1808h
1303746-001AMSD	Surr: 4-Bromofluorobenzene	%REC	SW8260C	48.1	50.00		96.2	80-128				3/28/2013 1808h
1303746-001AMSD	Surr: Dibromofluoromethane	%REC	SW8260C	52.4	50.00		105	80-124				3/28/2013 1808h
1303746-001AMSD	Surr: Toluene-d8	%REC	SW8260C	48.5	50.00		96.9	77-129				3/28/2013 1808h

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Data File C:\CHEM32\1\DATA\0329-TPH 2013-03-29 12-20-03\007F0701.D
Sample Name: 1303746-001C

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Acq. Operator   :                                Seq. Line :   7
Acq. Instrument : GC C                            Location : Vial 7
Injection Date  : 3/29/2013 2:18:08 PM                 Inj :   1
                                                Inj Volume : 5 µl
Acq. Method     : C:\CHEM32\1\DATA\0329-TPH 2013-03-29 12-20-03\TPH-FRONT-1090171B.M
Last changed    : 3/14/2013 1:57:38 PM
Analysis Method : C:\CHEM32\1\DATA\0329-TPH 2013-03-29 12-20-03\TPH-FRONT-1090171B.M (Sequence
                  Method)
Last changed    : 3/31/2013 11:03:38 AM
                  (modified after loading)
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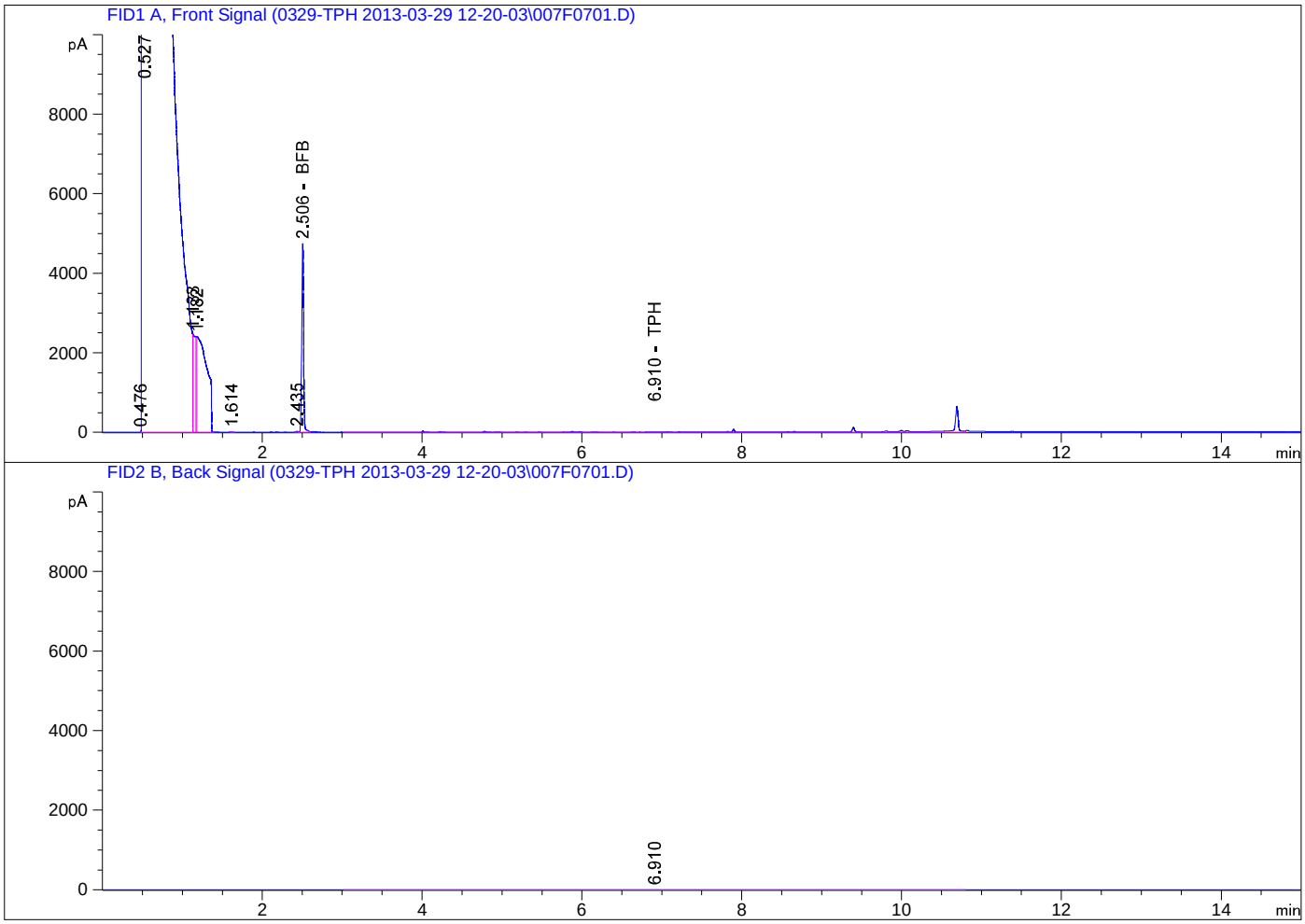


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==================================================================
                      External Standard Report
==================================================================

Sorted By             :      Signal
Calib. Data Modified  :      3/31/2013 11:03:38 AM
Multiplier:                   :      1.0000
Dilution:                     :      1.0000
Do not use Multiplier & Dilution Factor with ISTDs
```

Data File C:\CHEM32\1\DATA\0329-TPH 2013-03-29 12-20-03\008F0801.D
Sample Name: 1303746-002C

==========

Acq. Operator : Seq. Line : 8
Acq. Instrument : GC C Location : Vial 8
Injection Date : 3/29/2013 2:37:32 PM Inj : 1
Inj Volume : 5 µl
Acq. Method : C:\CHEM32\1\DATA\0329-TPH 2013-03-29 12-20-03\TPH-FRONT-1090171B.M
Last changed : 3/14/2013 1:57:38 PM
Analysis Method : C:\CHEM32\1\DATA\0329-TPH 2013-03-29 12-20-03\TPH-FRONT-1090171B.M (Sequence Method)
Last changed : 3/31/2013 11:03:38 AM (modified after loading)

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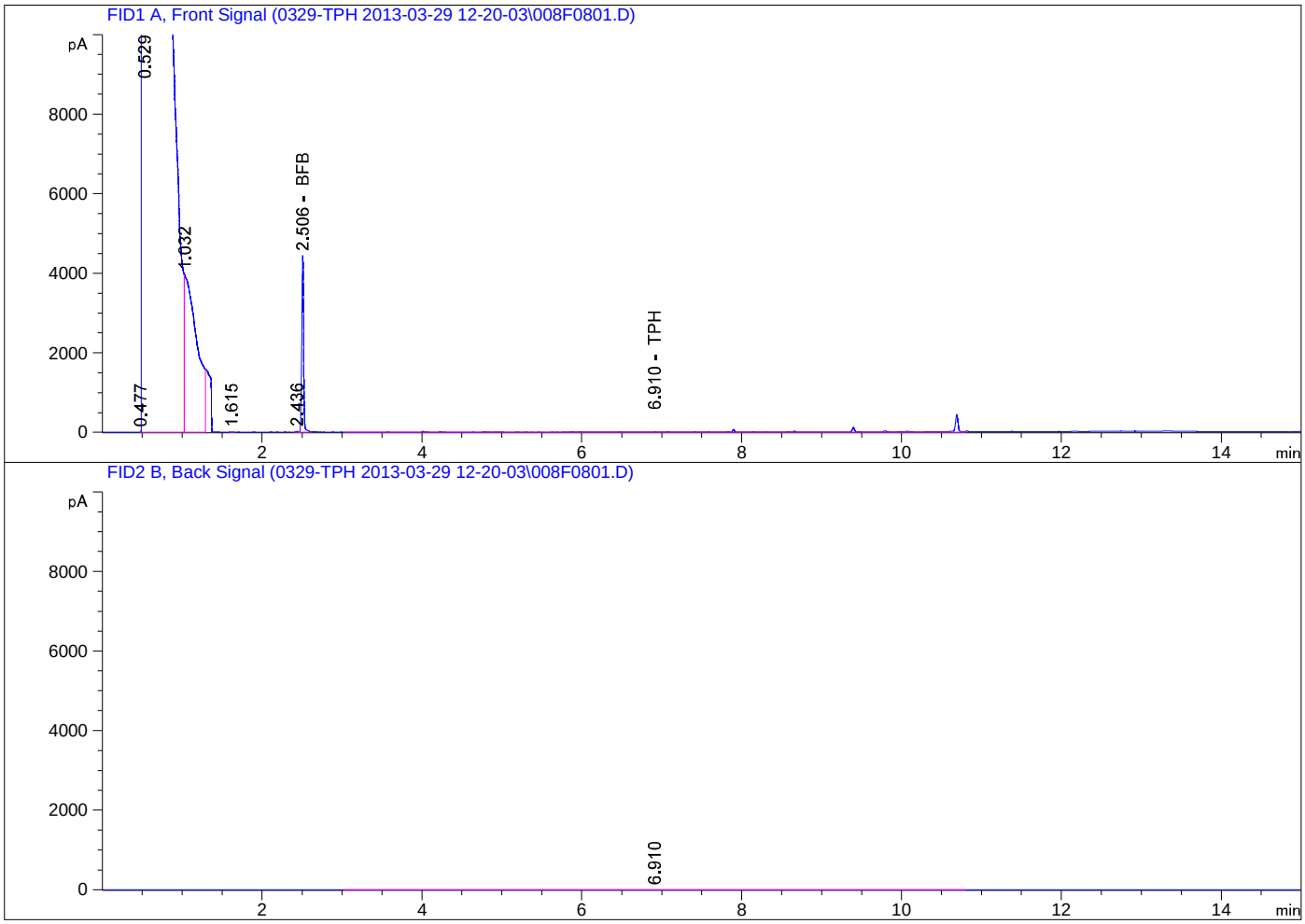

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External Standard Report

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Sorted By : Signal
Calib. Data Modified : 3/31/2013 11:03:38 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Data File C:\CHEM32\1\DATA\0329-TPH 2013-03-29 12-20-03\011F1101.D
Sample Name: 1303746-003C

```
==================================================================
Acq. Operator   :                              Seq. Line :  11
Acq. Instrument : GC C                          Location : Vial 11
Injection Date  : 3/29/2013 3:35:41 PM               Inj :   1
                                              Inj Volume : 5 µl
Acq. Method     : C:\CHEM32\1\DATA\0329-TPH 2013-03-29 12-20-03\TPH-FRONT-1090171B.M
Last changed    : 3/14/2013 1:57:38 PM
Analysis Method : C:\CHEM32\1\DATA\0329-TPH 2013-03-29 12-20-03\TPH-FRONT-1090171B.M (Sequence
                  Method)
Last changed    : 3/31/2013 11:03:38 AM
                  (modified after loading)
==================================================================
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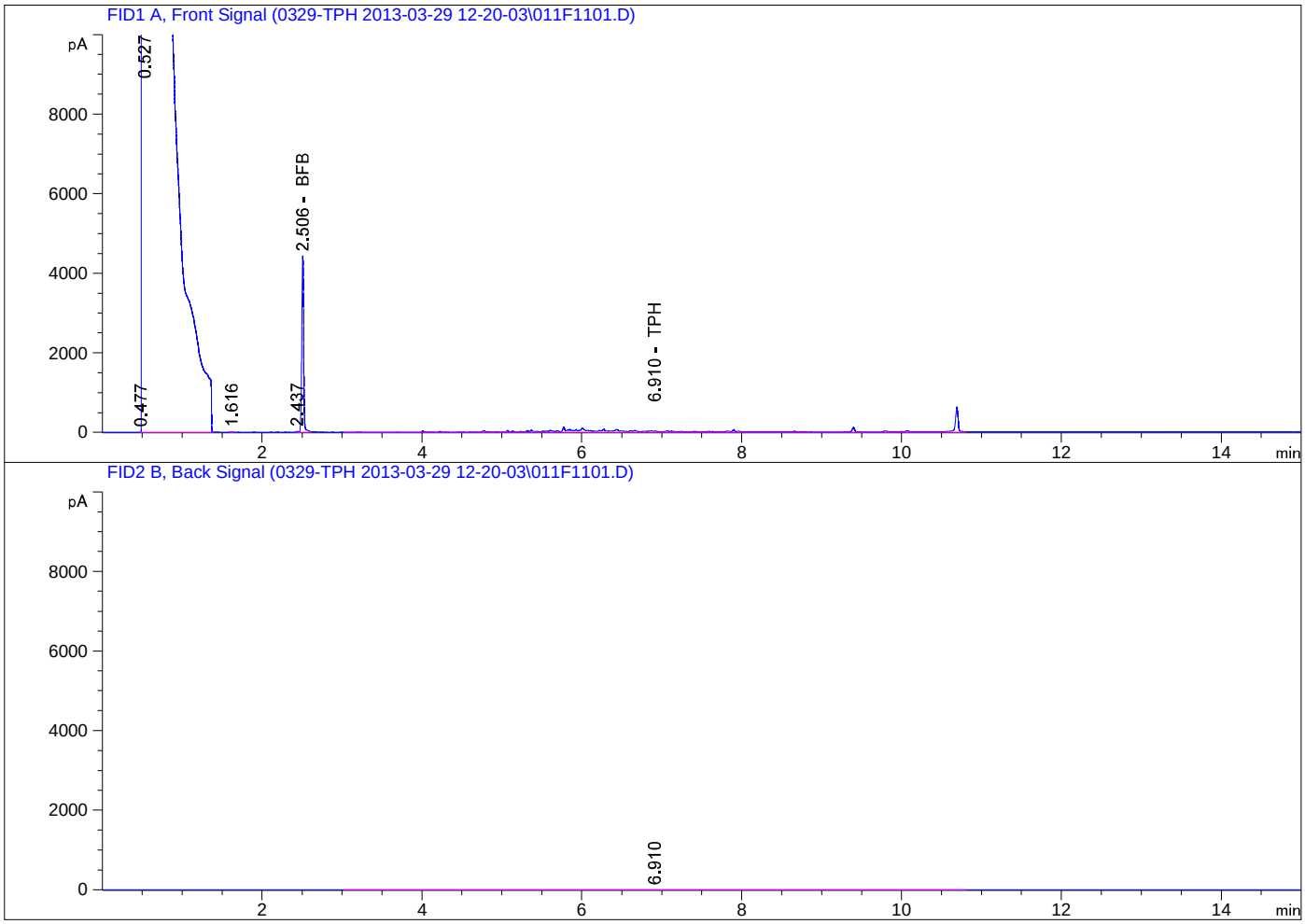


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==================================================================
                      External Standard Report
==================================================================

Sorted By             :      Signal
Calib. Data Modified  :      3/31/2013 11:03:38 AM
Multiplier:                   :      1.0000
Dilution:                     :      1.0000
Do not use Multiplier & Dilution Factor with ISTDs
```

Data File C:\CHEM32\1\DATA\0329-TPH 2013-03-29 12-20-03\012F1201.D
Sample Name: 1303746-004C

==========

Acq. Operator : Seq. Line : 12
Acq. Instrument : GC C Location : Vial 12
Injection Date : 3/29/2013 3:55:00 PM Inj : 1
Inj Volume : 5 µl
Acq. Method : C:\CHEM32\1\DATA\0329-TPH 2013-03-29 12-20-03\TPH-FRONT-1090171B.M
Last changed : 3/14/2013 1:57:38 PM
Analysis Method : C:\CHEM32\1\DATA\0329-TPH 2013-03-29 12-20-03\TPH-FRONT-1090171B.M (Sequence Method)
Last changed : 3/31/2013 11:03:38 AM (modified after loading)

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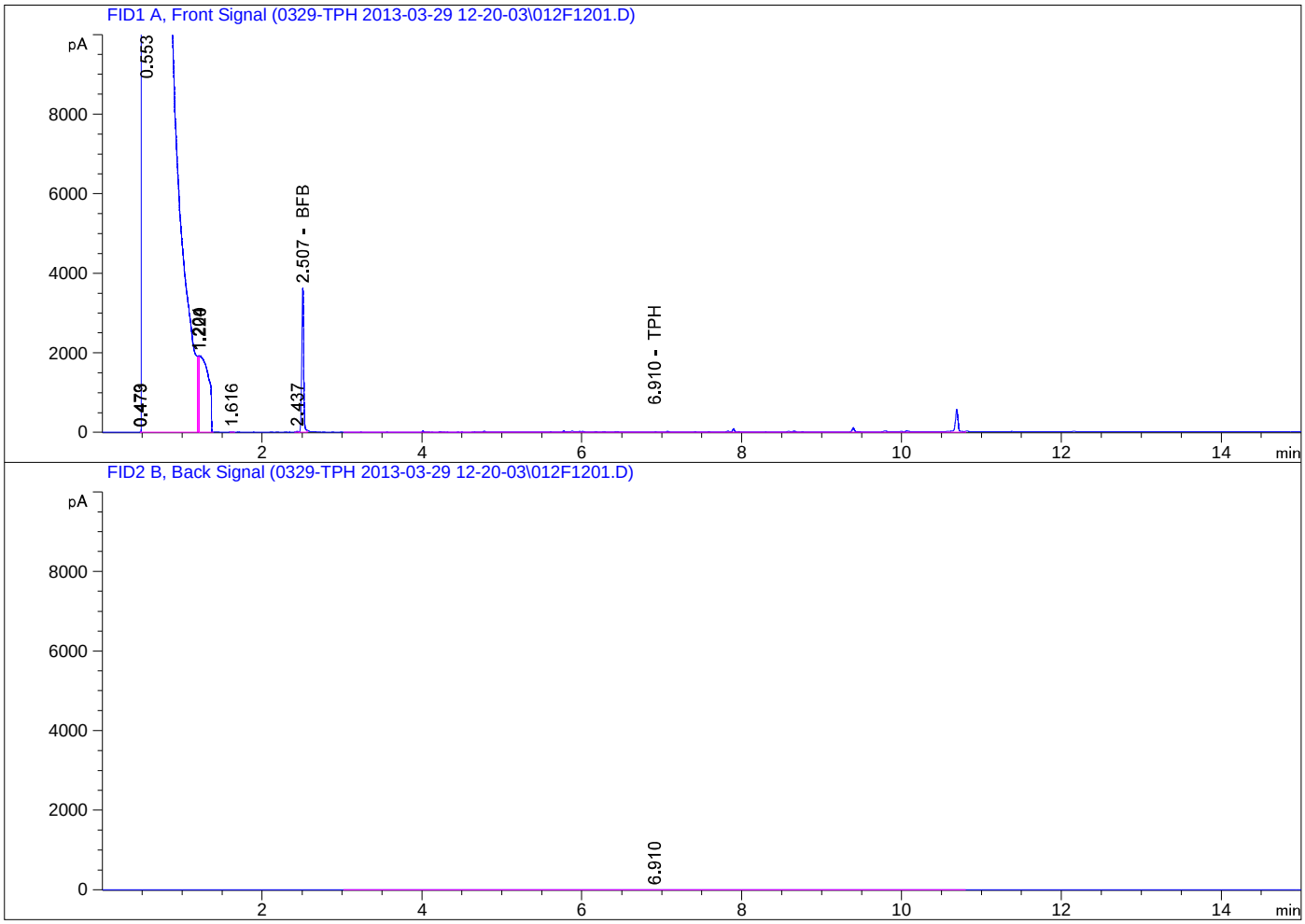

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External Standard Report

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Sorted By : Signal
Calib. Data Modified : 3/31/2013 11:03:38 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Data File C:\CHEM32\1\DATA\0329-TPH 2013-03-29 12-20-03\013F1301.D
Sample Name: 1303746-005C

==========

Acq. Operator : Seq. Line : 13
Acq. Instrument : GC C Location : Vial 13
Injection Date : 3/29/2013 4:14:27 PM Inj : 1
Inj Volume : 5 µl
Acq. Method : C:\CHEM32\1\DATA\0329-TPH 2013-03-29 12-20-03\TPH-FRONT-1090171B.M
Last changed : 3/14/2013 1:57:38 PM
Analysis Method : C:\CHEM32\1\DATA\0329-TPH 2013-03-29 12-20-03\TPH-FRONT-1090171B.M (Sequence Method)
Last changed : 3/31/2013 11:03:38 AM
(modified after loading)

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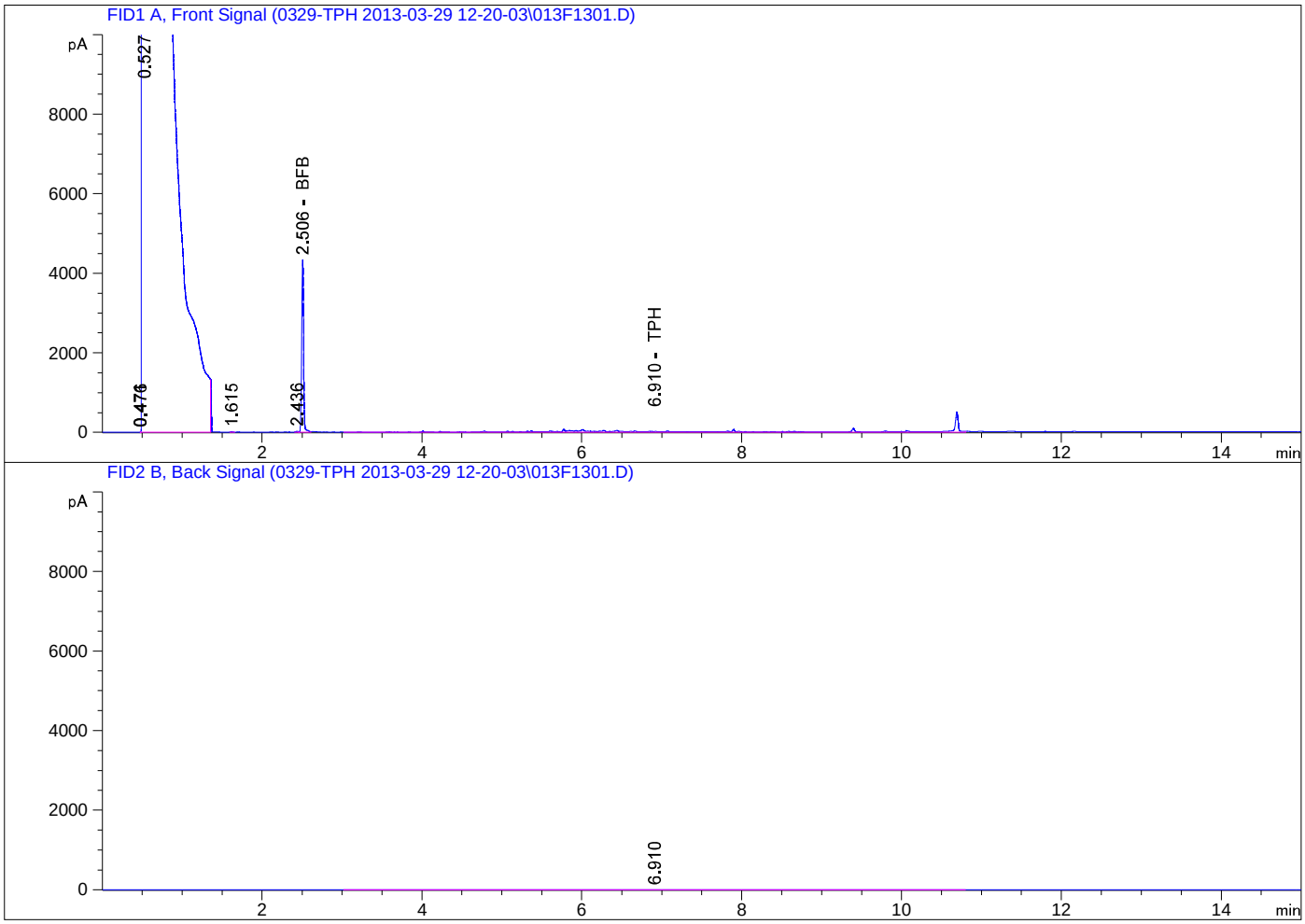

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External Standard Report

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Sorted By : Signal
Calib. Data Modified : 3/31/2013 11:03:38 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Data File C:\CHEM32\1\DATA\0329-TPH 2013-03-29 12-20-03\014F1401.D
Sample Name: 1303746-006C

```
==================================================================
Acq. Operator   :                                Seq. Line :  14
Acq. Instrument : GC C                            Location : Vial 14
Injection Date  : 3/29/2013 4:33:48 PM                 Inj :   1
                                                Inj Volume : 5 µl
Acq. Method     : C:\CHEM32\1\DATA\0329-TPH 2013-03-29 12-20-03\TPH-FRONT-1090171B.M
Last changed    : 3/14/2013 1:57:38 PM
Analysis Method : C:\CHEM32\1\DATA\0329-TPH 2013-03-29 12-20-03\TPH-FRONT-1090171B.M (Sequence
                  Method)
Last changed    : 3/31/2013 11:03:38 AM
                  (modified after loading)
==================================================================
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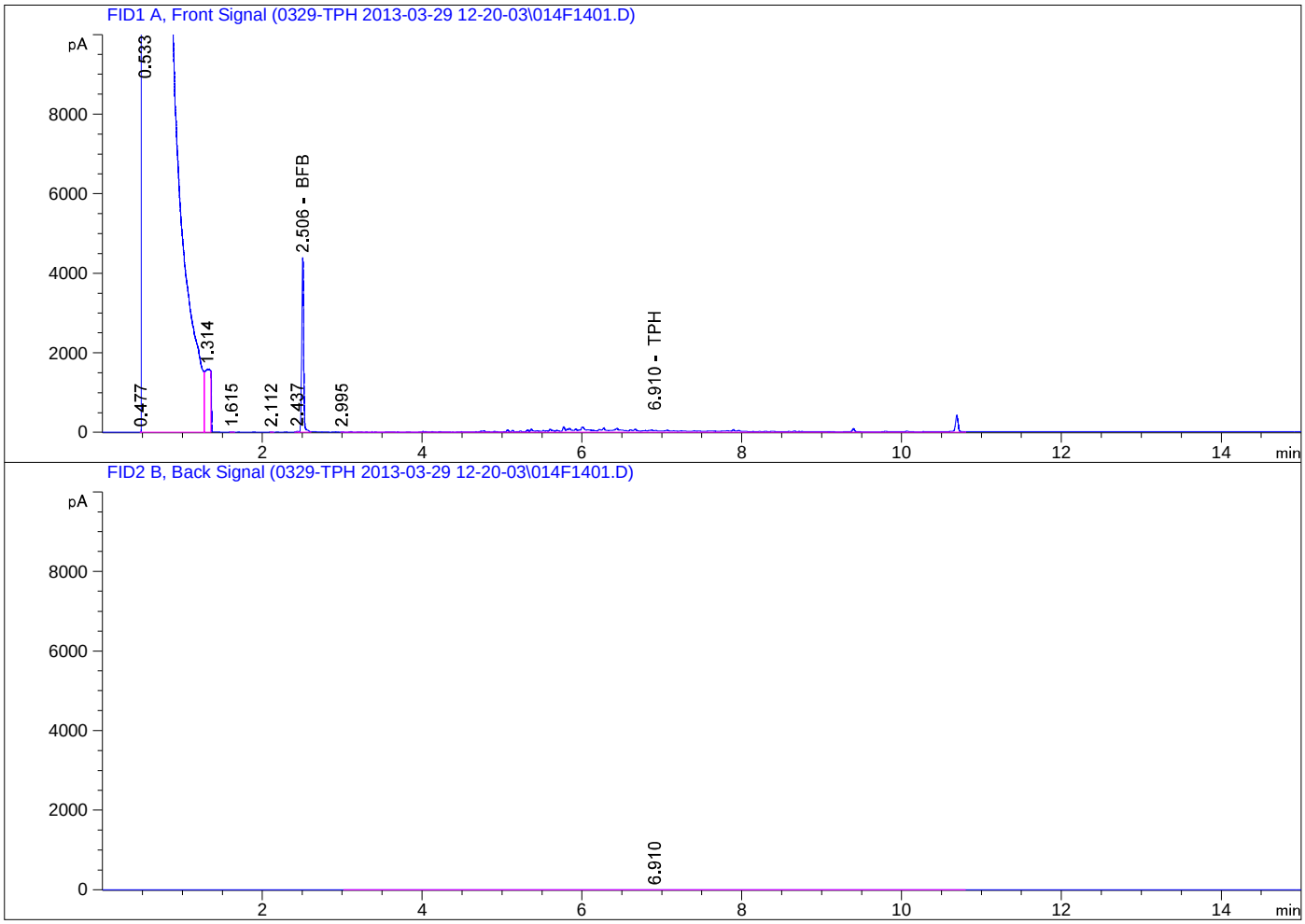


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==================================================================
                      External Standard Report
==================================================================

Sorted By             :      Signal
Calib. Data Modified  :      3/31/2013 11:03:38 AM
Multiplier:                   :      1.0000
Dilution:                     :      1.0000
Do not use Multiplier & Dilution Factor with ISTDs
```

Data File C:\CHEM32\1\DATA\0329-TPH 2013-03-29 12-20-03\015F1501.D
Sample Name: 1303746-007C

==========

Acq. Operator : Seq. Line : 15
Acq. Instrument : GC C Location : Vial 15
Injection Date : 3/29/2013 4:53:18 PM Inj : 1
Inj Volume : 5 µl
Acq. Method : C:\CHEM32\1\DATA\0329-TPH 2013-03-29 12-20-03\TPH-FRONT-1090171B.M
Last changed : 3/14/2013 1:57:38 PM
Analysis Method : C:\CHEM32\1\DATA\0329-TPH 2013-03-29 12-20-03\TPH-FRONT-1090171B.M (Sequence Method)
Last changed : 3/31/2013 11:03:38 AM (modified after loading)

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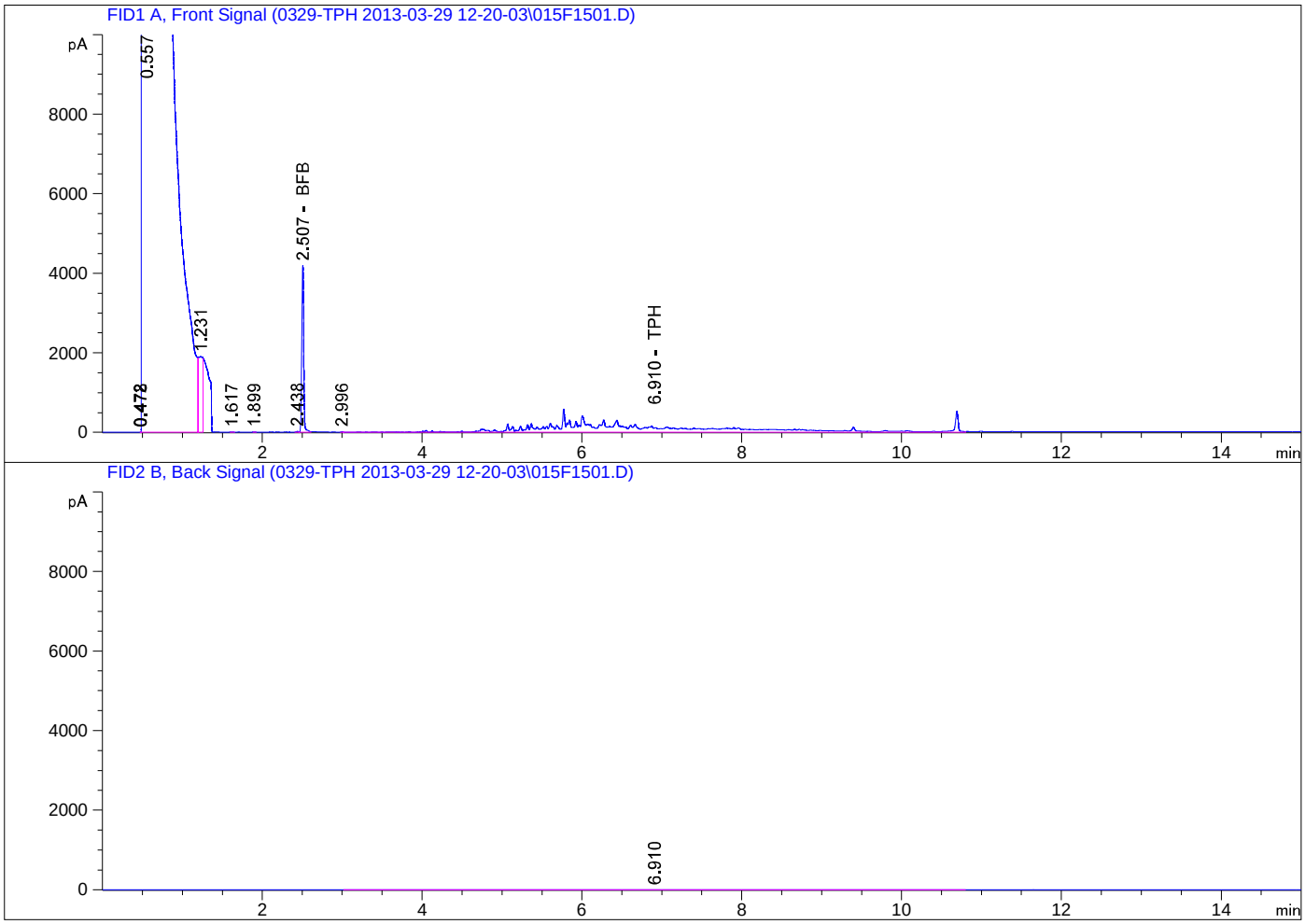

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External Standard Report

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Sorted By : Signal
Calib. Data Modified : 3/31/2013 11:03:38 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Data File C:\CHEM32\1\DATA\0329-TPH 2013-03-29 12-20-03\016F1601.D
Sample Name: 1303746-008C

==========

Acq. Operator : Seq. Line : 16
Acq. Instrument : GC C Location : Vial 16
Injection Date : 3/29/2013 5:12:40 PM Inj : 1
Inj Volume : 5 µl
Acq. Method : C:\CHEM32\1\DATA\0329-TPH 2013-03-29 12-20-03\TPH-FRONT-1090171B.M
Last changed : 3/14/2013 1:57:38 PM
Analysis Method : C:\CHEM32\1\DATA\0329-TPH 2013-03-29 12-20-03\TPH-FRONT-1090171B.M (Sequence Method)
Last changed : 3/31/2013 11:03:38 AM
(modified after loading)

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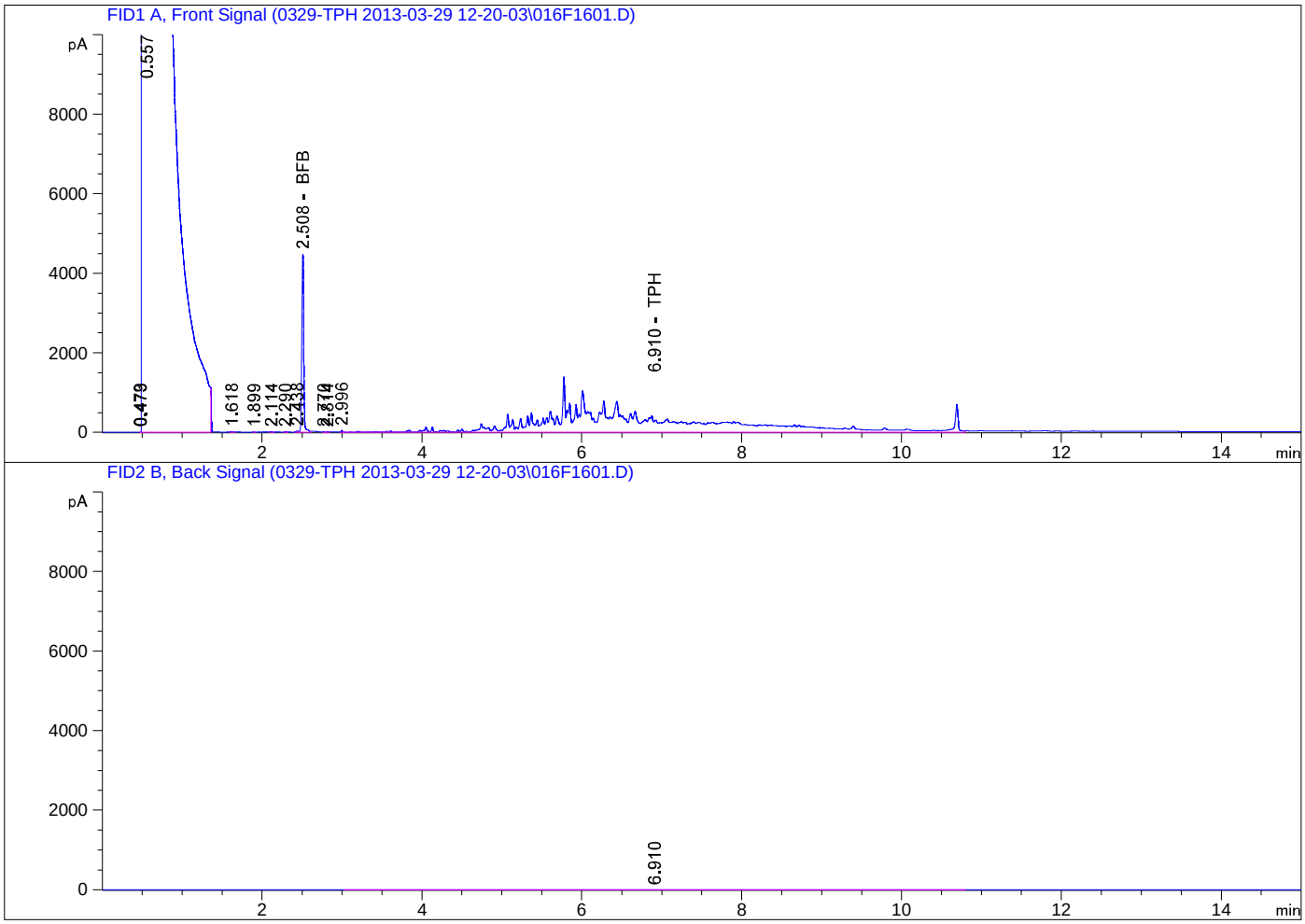

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External Standard Report

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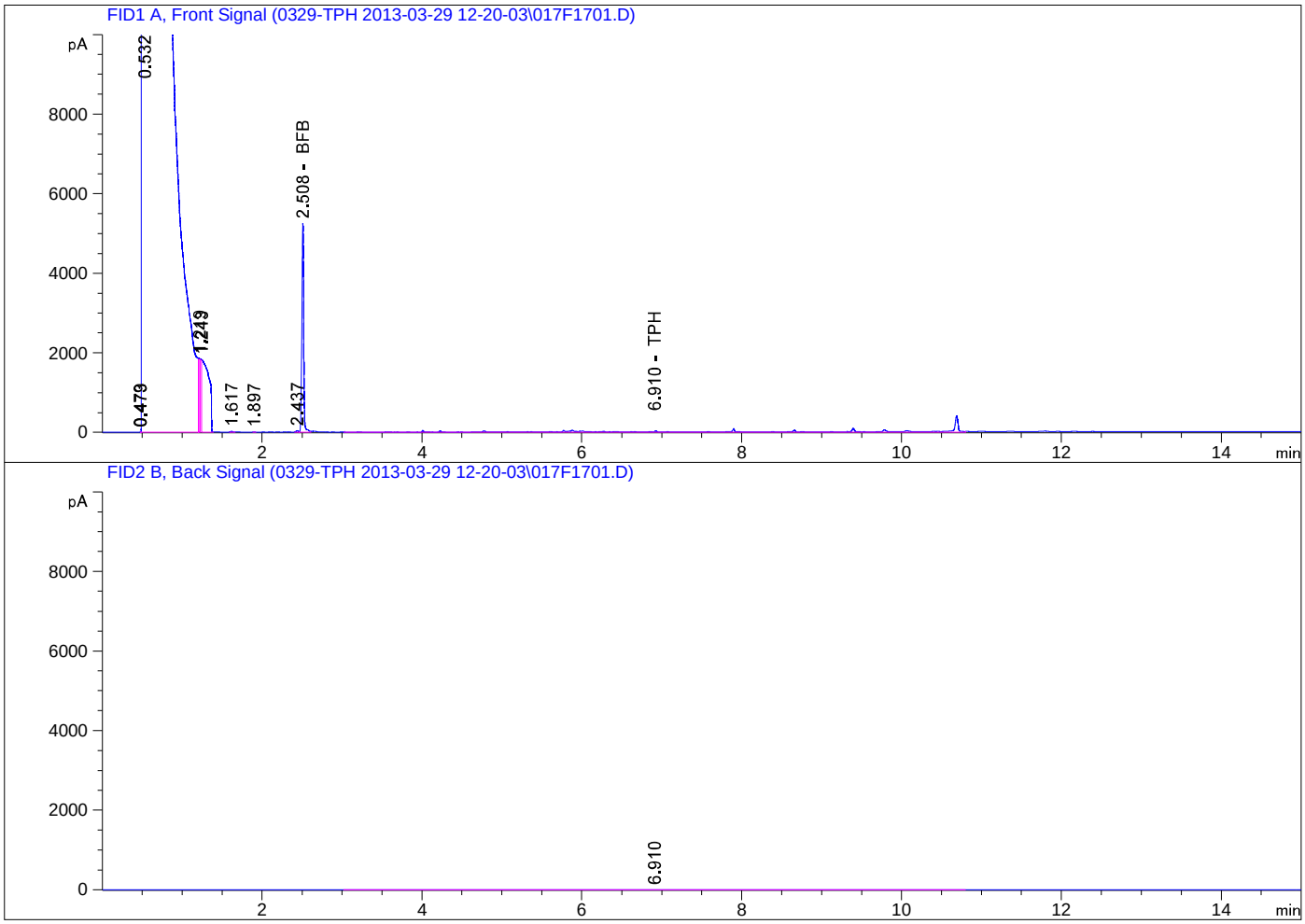
Sorted By : Signal
Calib. Data Modified : 3/31/2013 11:03:38 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Data File C:\CHEM32\1\DATA\0329-TPH 2013-03-29 12-20-03\017F1701.D
Sample Name: 1303746-009C

```
==================================================================
Acq. Operator   :                                Seq. Line :  17
Acq. Instrument : GC C                            Location : Vial 17
Injection Date  : 3/29/2013 5:32:11 PM                 Inj :   1
                                                Inj Volume : 5 µl
Acq. Method     : C:\CHEM32\1\DATA\0329-TPH 2013-03-29 12-20-03\TPH-FRONT-1090171B.M
Last changed    : 3/14/2013 1:57:38 PM
Analysis Method : C:\CHEM32\1\DATA\0329-TPH 2013-03-29 12-20-03\TPH-FRONT-1090171B.M (Sequence
                  Method)
Last changed    : 3/31/2013 11:03:38 AM
                  (modified after loading)
==================================================================
```

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

Sorted By             :      Signal
Calib. Data Modified  :      3/31/2013 11:03:38 AM
Multiplier:                   :      1.0000
Dilution:                     :      1.0000
Do not use Multiplier & Dilution Factor with ISTDs
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Data File C:\CHEM32\1\DATA\0329-TPH 2013-03-29 12-20-03\018F1801.D
Sample Name: 1303746-010C

==========

Acq. Operator : Seq. Line : 18
Acq. Instrument : GC C Location : Vial 18
Injection Date : 3/29/2013 5:51:35 PM Inj : 1
Inj Volume : 5 µl
Acq. Method : C:\CHEM32\1\DATA\0329-TPH 2013-03-29 12-20-03\TPH-FRONT-1090171B.M
Last changed : 3/14/2013 1:57:38 PM
Analysis Method : C:\CHEM32\1\DATA\0329-TPH 2013-03-29 12-20-03\TPH-FRONT-1090171B.M (Sequence Method)
Last changed : 3/31/2013 11:03:38 AM
(modified after loading)

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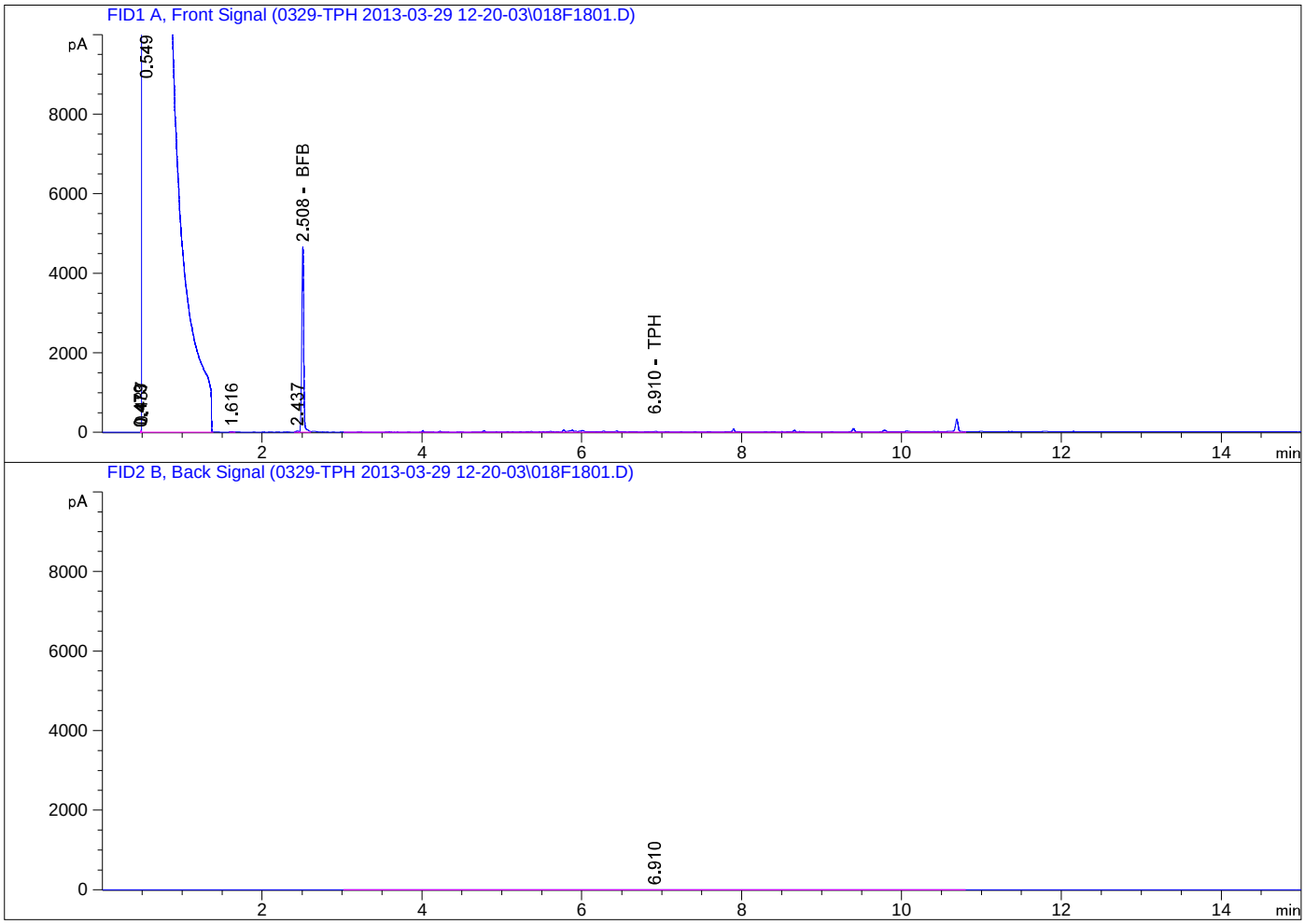

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External Standard Report

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Sorted By : Signal
Calib. Data Modified : 3/31/2013 11:03:38 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Data File C:\CHEM32\1\DATA\0329-TPH 2013-03-29 12-20-03\020F2401.D
Sample Name: 1303746-011C

==========

Acq. Operator : Seq. Line : 24
Acq. Instrument : GC C Location : Vial 20
Injection Date : 3/29/2013 7:48:31 PM Inj : 1
Inj Volume : 5 µl
Acq. Method : C:\CHEM32\1\DATA\0329-TPH 2013-03-29 12-20-03\TPH-FRONT-1090171B.M
Last changed : 3/14/2013 1:57:38 PM
Analysis Method : C:\CHEM32\1\DATA\0329-TPH 2013-03-29 12-20-03\TPH-FRONT-1090171B.M (Sequence Method)
Last changed : 3/31/2013 11:03:38 AM
(modified after loading)

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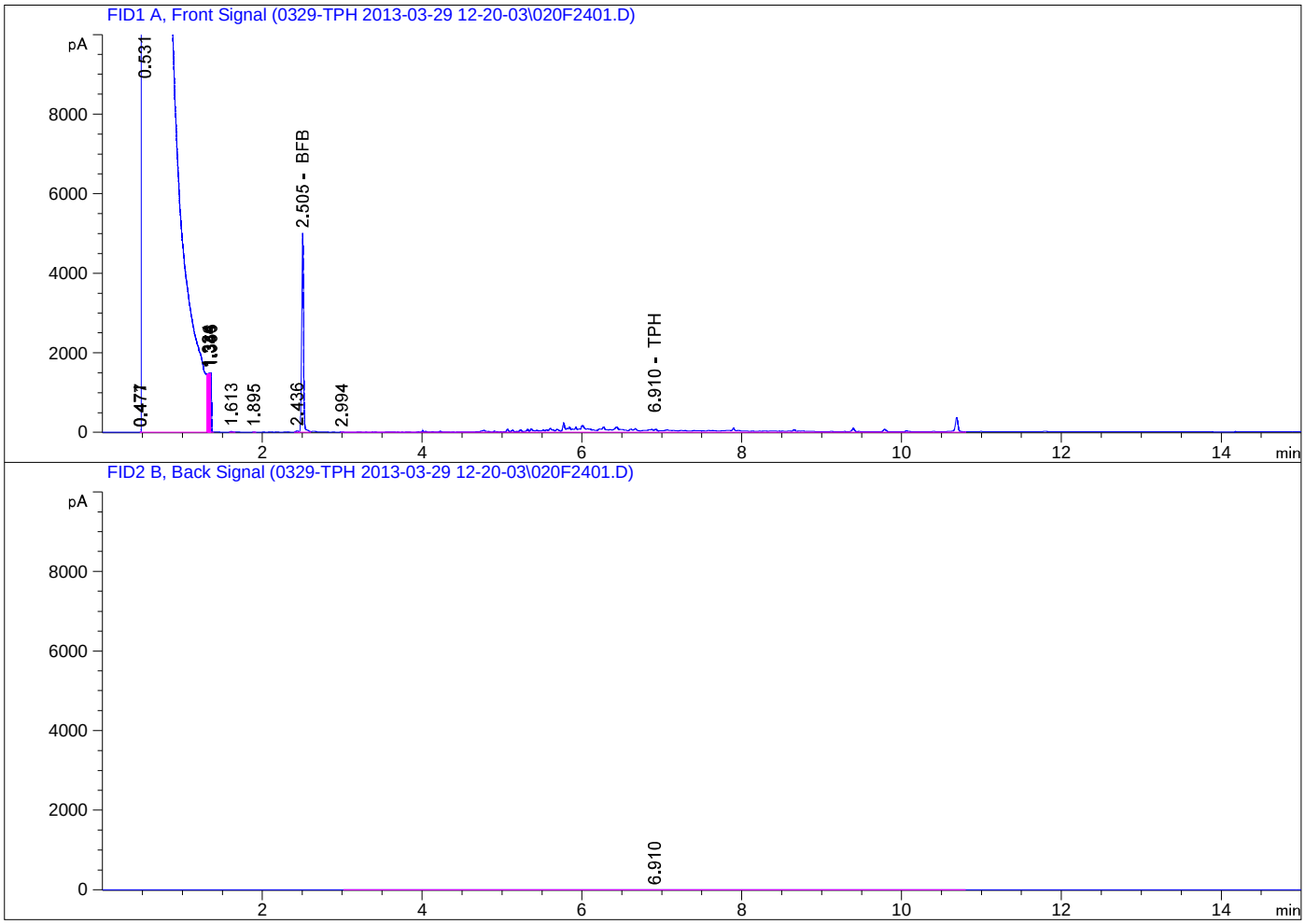

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External Standard Report

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Sorted By : Signal
Calib. Data Modified : 3/31/2013 11:03:38 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Data File C:\CHEM32\1\DATA\0329-TPH 2013-03-29 12-20-03\021F2501.D
Sample Name: 1303746-014C

==========

Acq. Operator : Seq. Line : 25
Acq. Instrument : GC C Location : Vial 21
Injection Date : 3/29/2013 8:08:02 PM Inj : 1
Inj Volume : 5 µl
Acq. Method : C:\CHEM32\1\DATA\0329-TPH 2013-03-29 12-20-03\TPH-FRONT-1090171B.M
Last changed : 3/14/2013 1:57:38 PM
Analysis Method : C:\CHEM32\1\DATA\0329-TPH 2013-03-29 12-20-03\TPH-FRONT-1090171B.M (Sequence Method)
Last changed : 3/31/2013 11:03:38 AM
(modified after loading)

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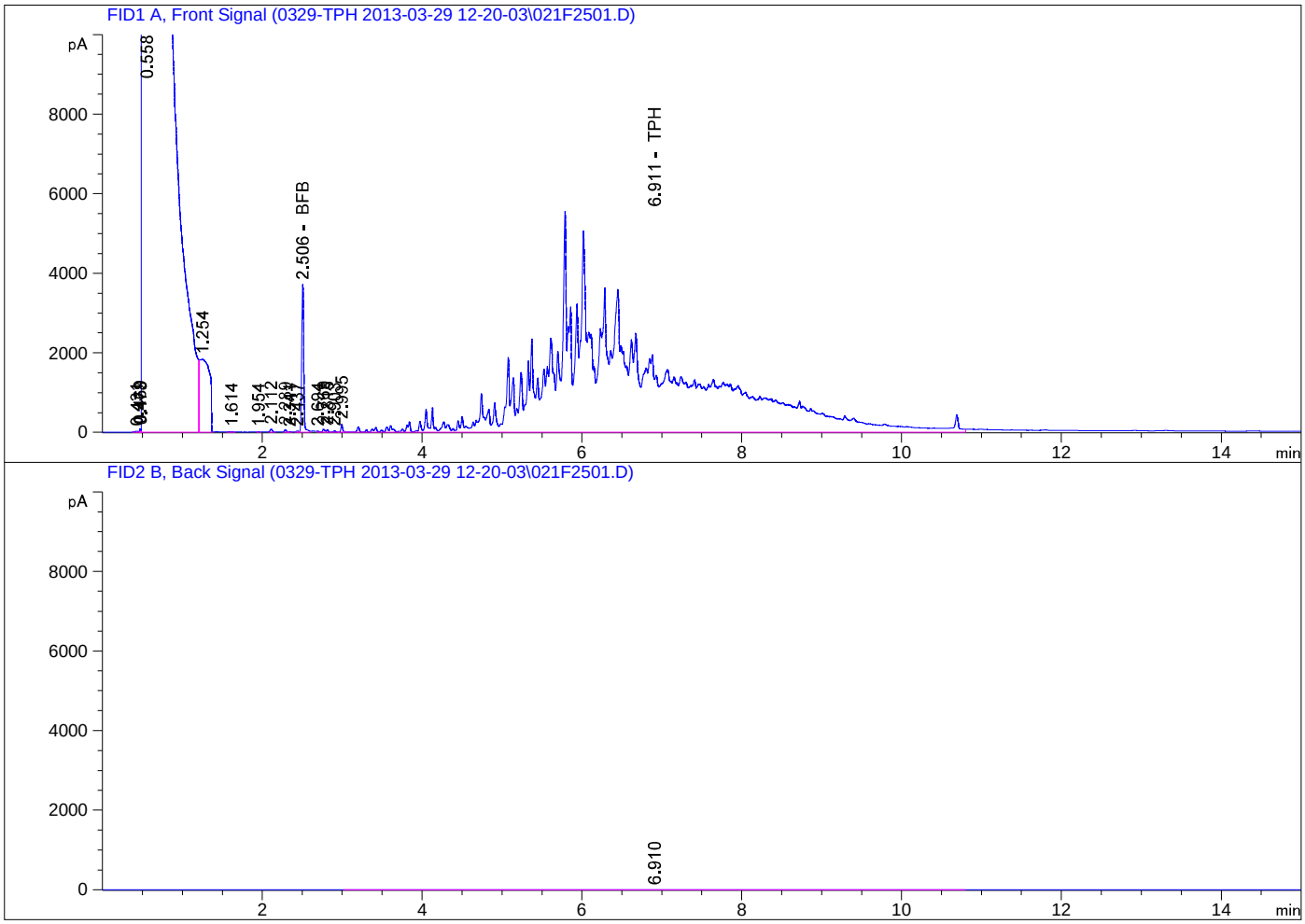

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External Standard Report

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Sorted By : Signal
Calib. Data Modified : 3/31/2013 11:03:38 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Data File C:\CHEM32\1\DATA\0329-TPH 2013-03-29 12-20-03\022F2601.D
Sample Name: 1303746-015C

==========

Acq. Operator : Seq. Line : 26
Acq. Instrument : GC C Location : Vial 22
Injection Date : 3/29/2013 8:27:30 PM Inj : 1
Inj Volume : 5 µl
Acq. Method : C:\CHEM32\1\DATA\0329-TPH 2013-03-29 12-20-03\TPH-FRONT-1090171B.M
Last changed : 3/14/2013 1:57:38 PM
Analysis Method : C:\CHEM32\1\DATA\0329-TPH 2013-03-29 12-20-03\TPH-FRONT-1090171B.M (Sequence Method)
Last changed : 3/31/2013 11:03:38 AM
(modified after loading)

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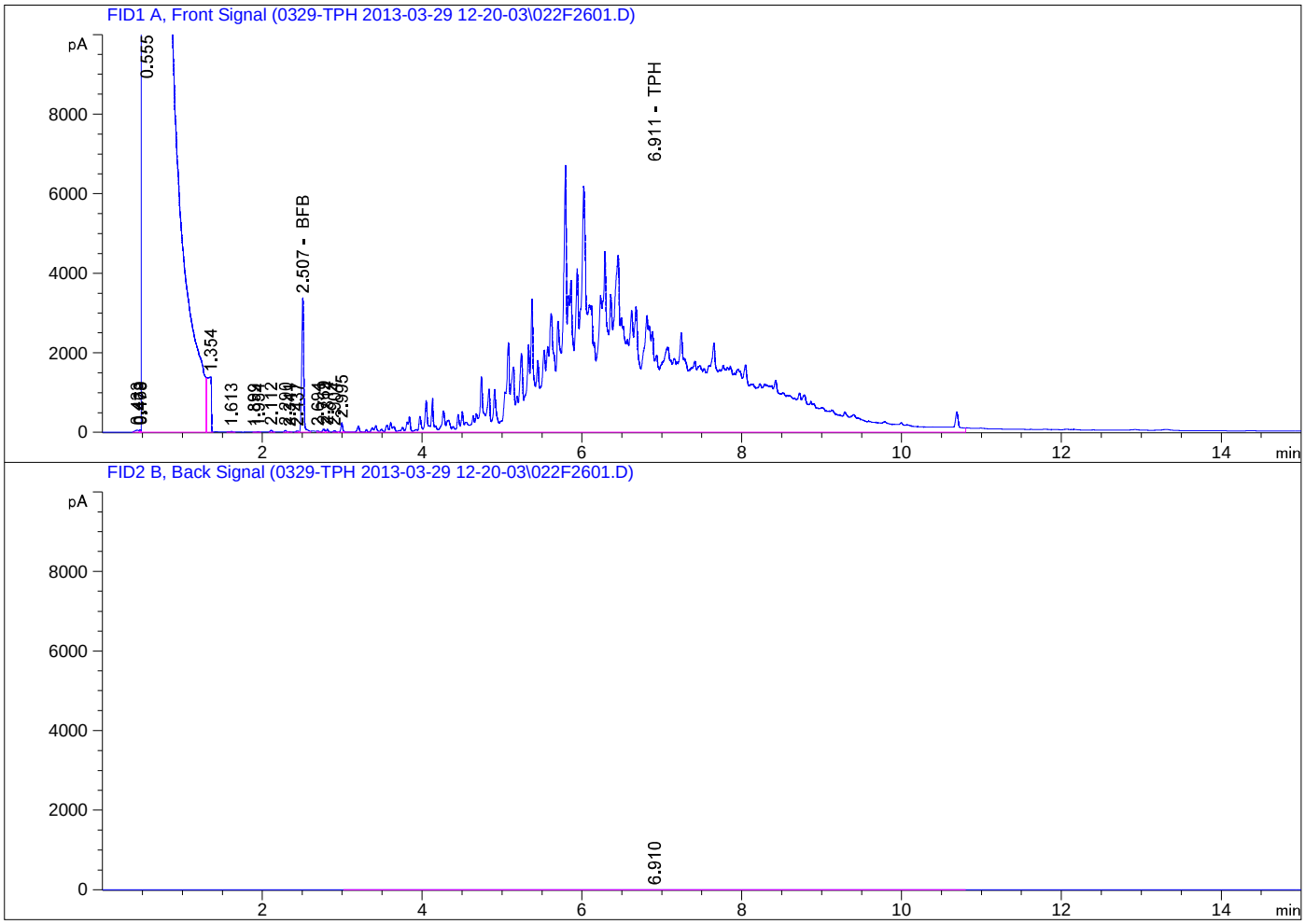

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External Standard Report

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Sorted By : Signal
Calib. Data Modified : 3/31/2013 11:03:38 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Data File C:\CHEM32\1\DATA\0329-TPH 2013-03-29 12-20-03\023F2701.D
Sample Name: 1303746-016C

==========

Acq. Operator : Seq. Line : 27
Acq. Instrument : GC C Location : Vial 23
Injection Date : 3/29/2013 8:46:59 PM Inj : 1
Inj Volume : 5 µl
Acq. Method : C:\CHEM32\1\DATA\0329-TPH 2013-03-29 12-20-03\TPH-FRONT-1090171B.M
Last changed : 3/14/2013 1:57:38 PM
Analysis Method : C:\CHEM32\1\DATA\0329-TPH 2013-03-29 12-20-03\TPH-FRONT-1090171B.M (Sequence Method)
Last changed : 3/31/2013 11:03:38 AM
(modified after loading)

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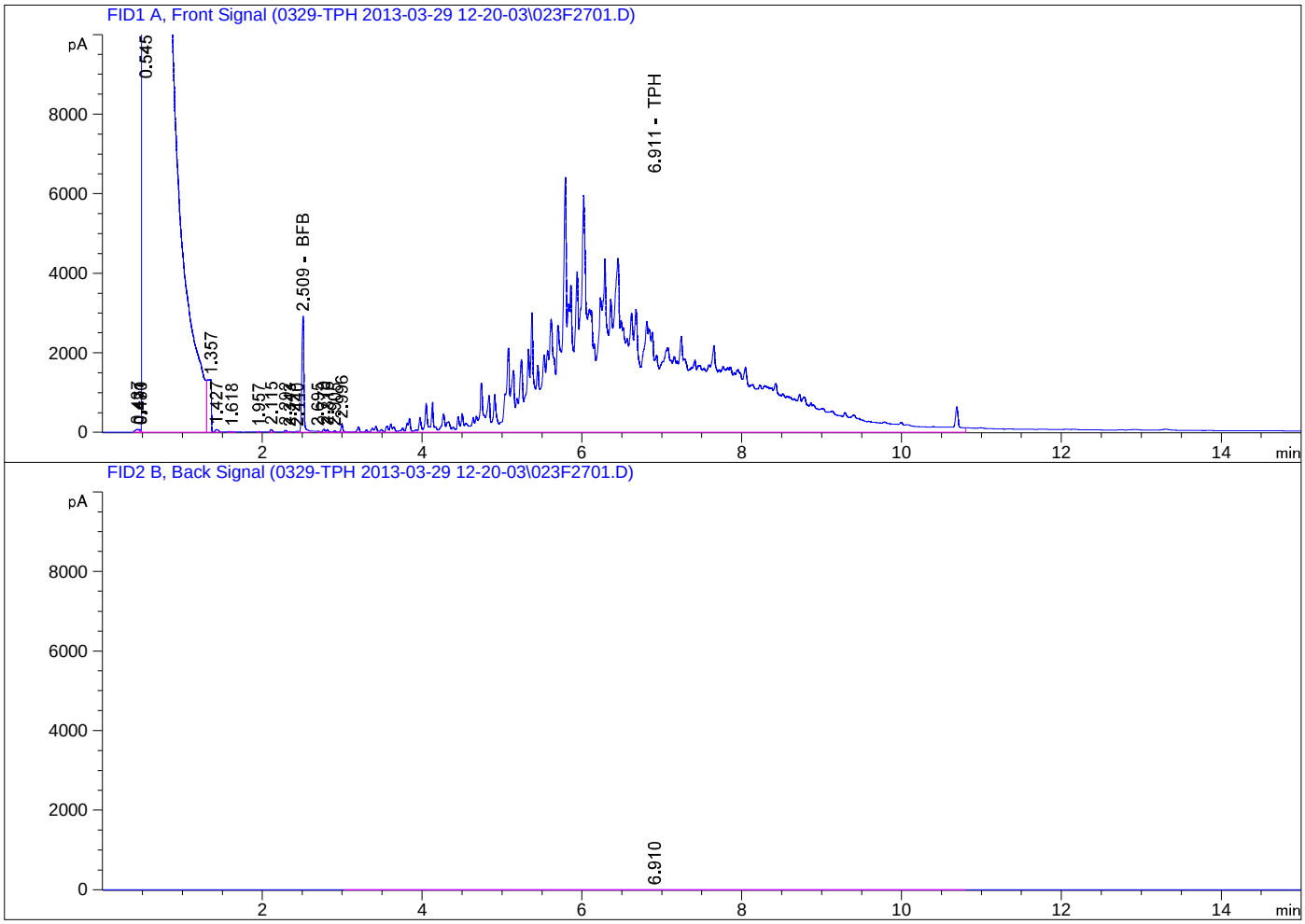

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External Standard Report

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Sorted By : Signal
Calib. Data Modified : 3/31/2013 11:03:38 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Data File C:\CHEM32\1\DATA\0329-TPH 2013-03-29 12-20-03\005F0501.D
Sample Name: LCS-24462

==========

Acq. Operator	:	Seq. Line	: 5
Acq. Instrument	: GC C	Location	: Vial 5
Injection Date	: 3/29/2013 1:39:30 PM	Inj	: 1
		Inj Volume	: 5 µl

Acq. Method : C:\CHEM32\1\DATA\0329-TPH 2013-03-29 12-20-03\TPH-FRONT-1090171B.M
Last changed : 3/14/2013 1:57:38 PM
Analysis Method : C:\CHEM32\1\DATA\0329-TPH 2013-03-29 12-20-03\TPH-FRONT-1090171B.M (Sequence Method)
Last changed : 3/31/2013 11:03:38 AM (modified after loading)

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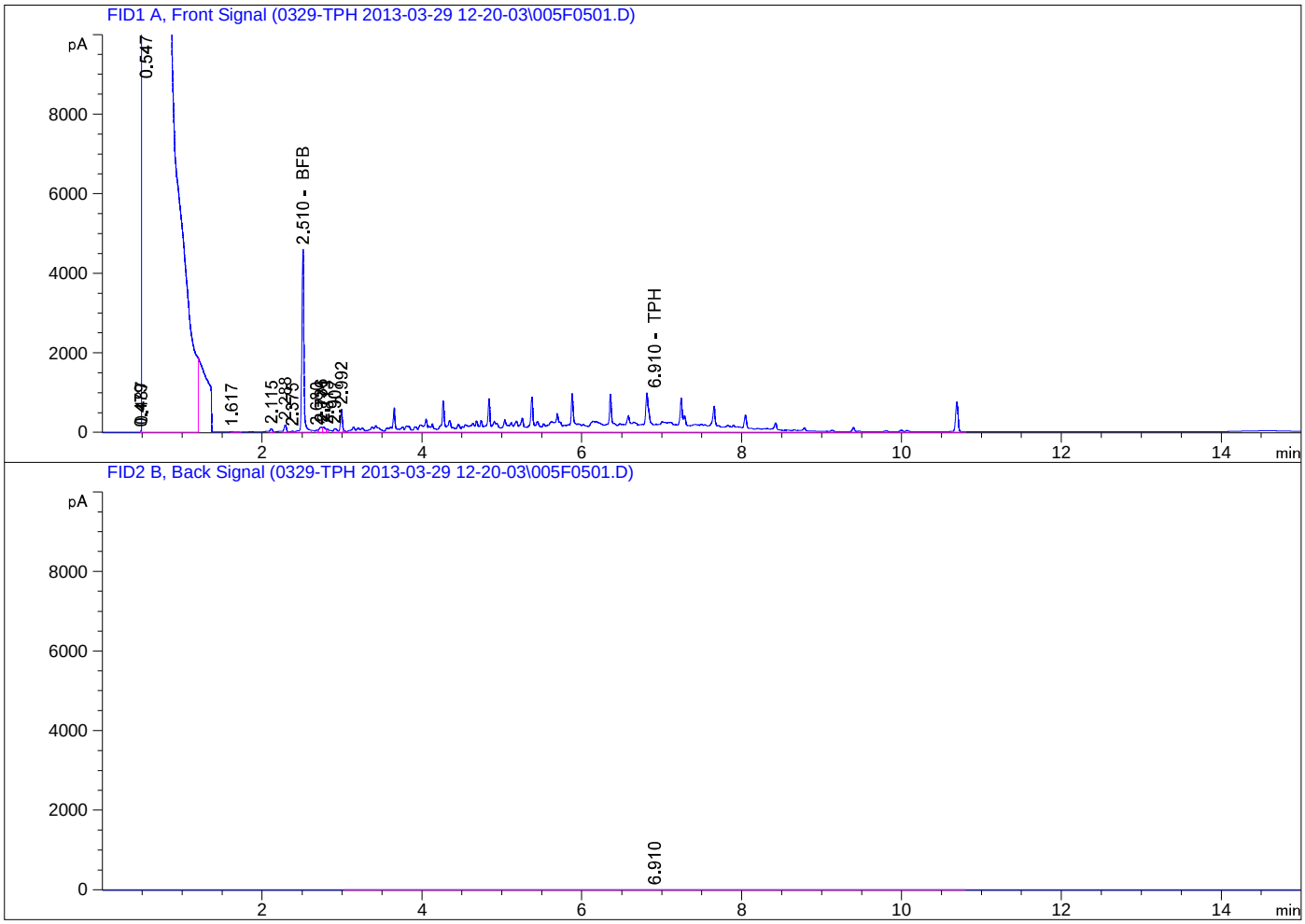

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External Standard Report

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Sorted By : Signal
Calib. Data Modified : 3/31/2013 11:03:38 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Data File C:\CHEM32\1\DATA\0329-TPH 2013-03-29 12-20-03\004F0401.D
Sample Name: MB-24462

==========

Acq. Operator	:	Seq. Line	: 4
Acq. Instrument	: GC C	Location	: Vial 4
Injection Date	: 3/29/2013 1:20:07 PM	Inj	: 1
		Inj Volume	: 5 µl

Acq. Method : C:\CHEM32\1\DATA\0329-TPH 2013-03-29 12-20-03\TPH-FRONT-1090171B.M
Last changed : 3/14/2013 1:57:38 PM
Analysis Method : C:\CHEM32\1\DATA\0329-TPH 2013-03-29 12-20-03\TPH-FRONT-1090171B.M (Sequence Method)
Last changed : 3/31/2013 11:03:38 AM (modified after loading)

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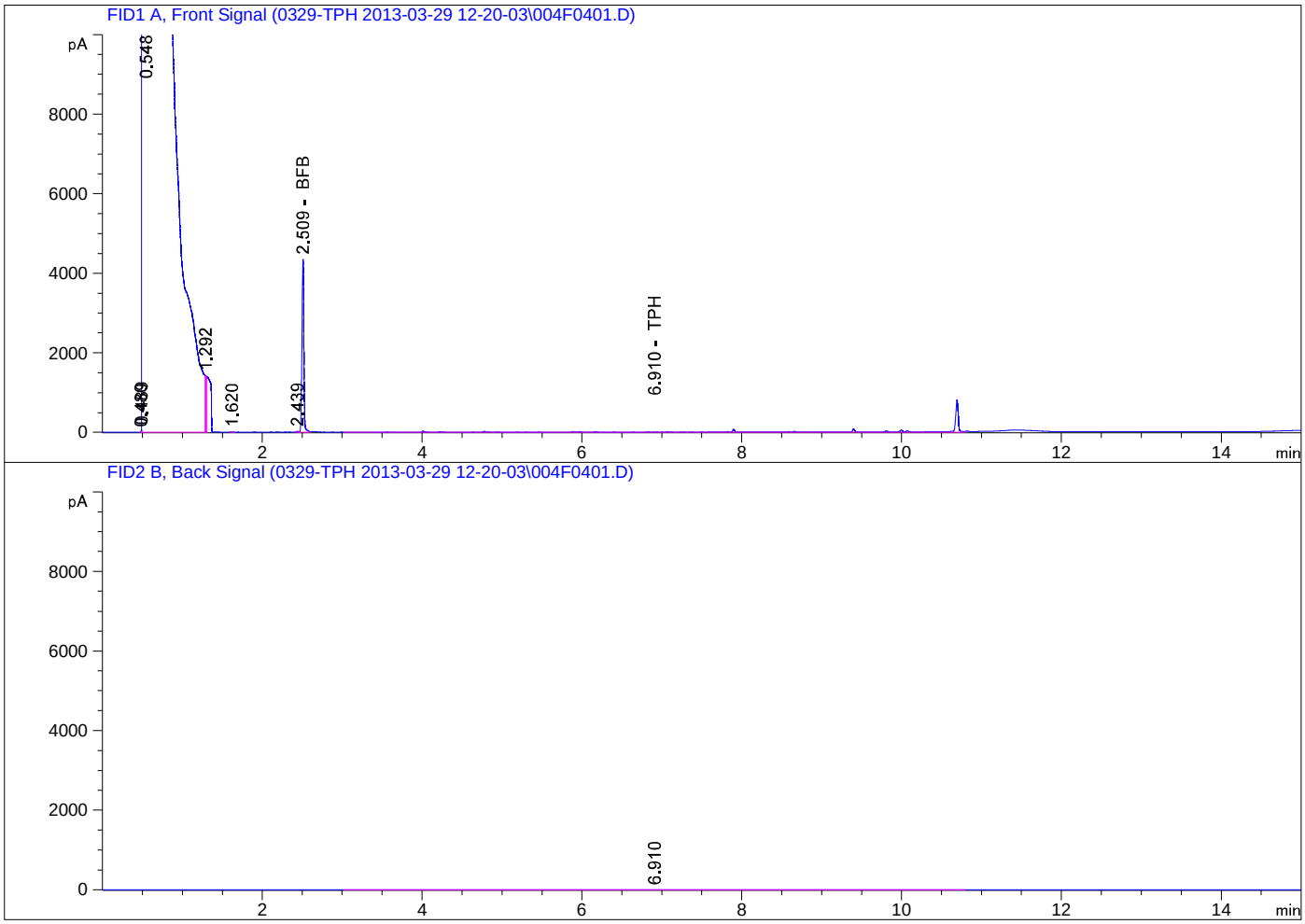

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External Standard Report

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Sorted By : Signal
Calib. Data Modified : 3/31/2013 11:03:38 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Data File C:\CHEM32\1\DATA\0329-TPH 2013-03-29 12-20-03\009F0901.D
Sample Name: 1303746-002CMS

==========

Acq. Operator : Seq. Line : 9
Acq. Instrument : GC C Location : Vial 9
Injection Date : 3/29/2013 2:56:57 PM Inj : 1
Inj Volume : 5 µl
Acq. Method : C:\CHEM32\1\DATA\0329-TPH 2013-03-29 12-20-03\TPH-FRONT-1090171B.M
Last changed : 3/14/2013 1:57:38 PM
Analysis Method : C:\CHEM32\1\DATA\0329-TPH 2013-03-29 12-20-03\TPH-FRONT-1090171B.M (Sequence Method)
Last changed : 3/31/2013 11:03:38 AM
(modified after loading)

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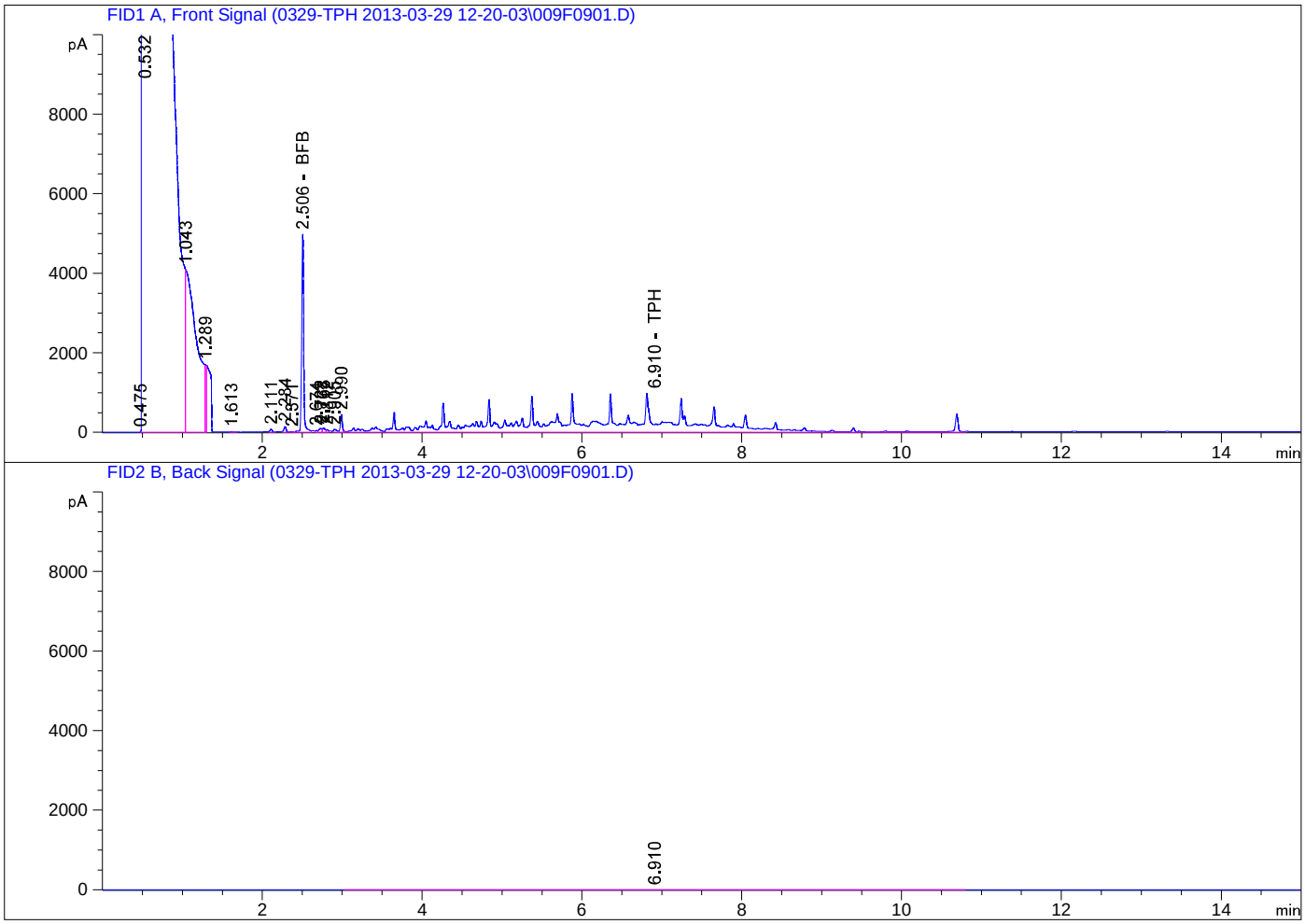

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External Standard Report

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Sorted By : Signal
Calib. Data Modified : 3/31/2013 11:03:38 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Data File C:\CHEM32\1\DATA\0329-TPH 2013-03-29 12-20-03\010F1001.D
Sample Name: 1303746-002CMSD

==========

Acq. Operator : Seq. Line : 10
Acq. Instrument : GC C Location : Vial 10
Injection Date : 3/29/2013 3:16:17 PM Inj : 1
Inj Volume : 5 µl
Acq. Method : C:\CHEM32\1\DATA\0329-TPH 2013-03-29 12-20-03\TPH-FRONT-1090171B.M
Last changed : 3/14/2013 1:57:38 PM
Analysis Method : C:\CHEM32\1\DATA\0329-TPH 2013-03-29 12-20-03\TPH-FRONT-1090171B.M (Sequence Method)
Last changed : 3/31/2013 11:03:38 AM (modified after loading)

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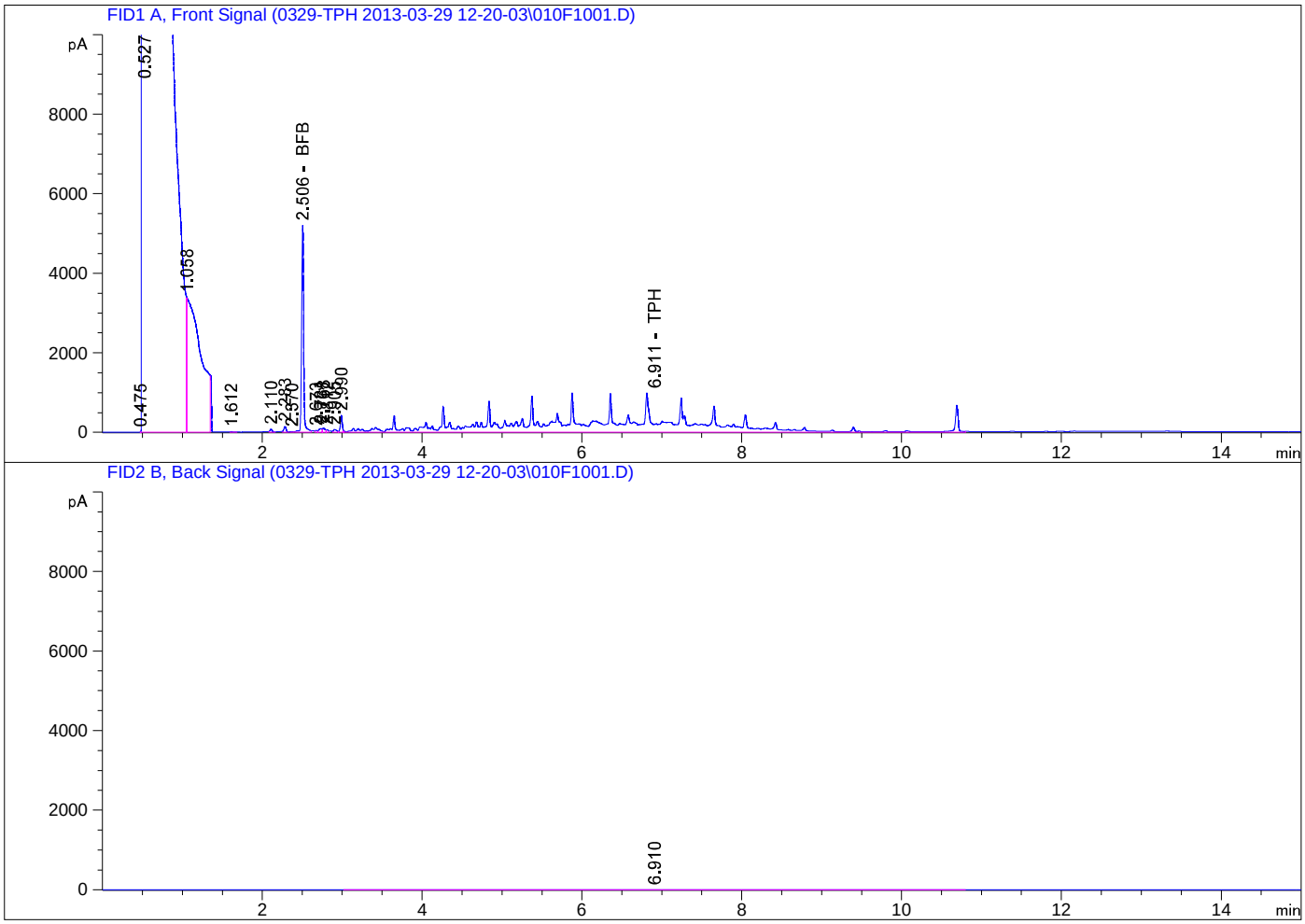

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External Standard Report

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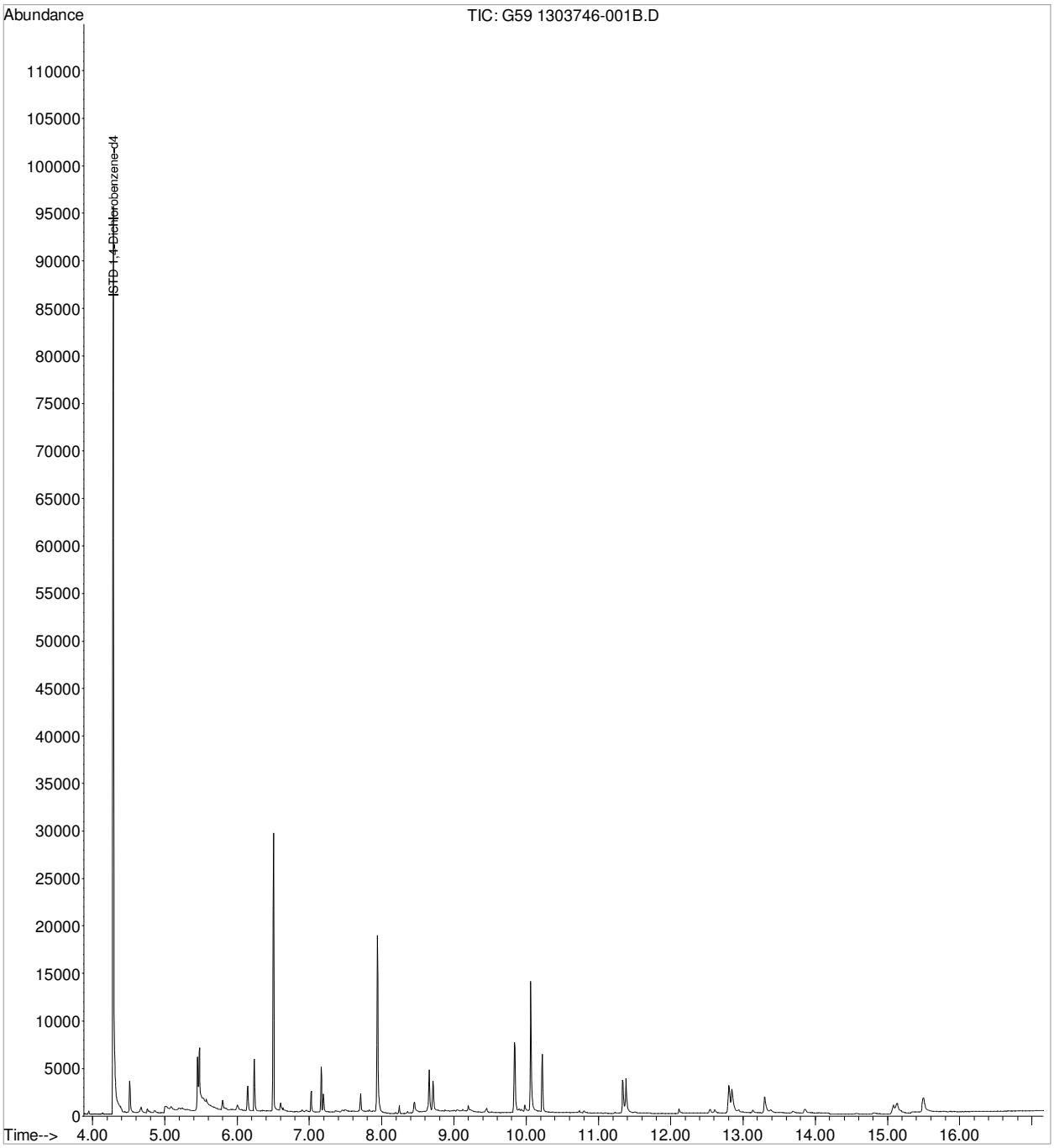
Sorted By : Signal
Calib. Data Modified : 3/31/2013 11:03:38 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Quantitation Report (QT Reviewed)

Data Path : Z:\MSDCHEM\1\DATA\APR 13\01APR13-A\
Data File : G59 1303746-001B.D
Acq On : 1 Apr 2013 11:03 pm
Operator : ALICIA HABERLE
Sample : 1303746-001B
Misc : SAMP
ALS Vial : 10 Sample Multiplier: 1

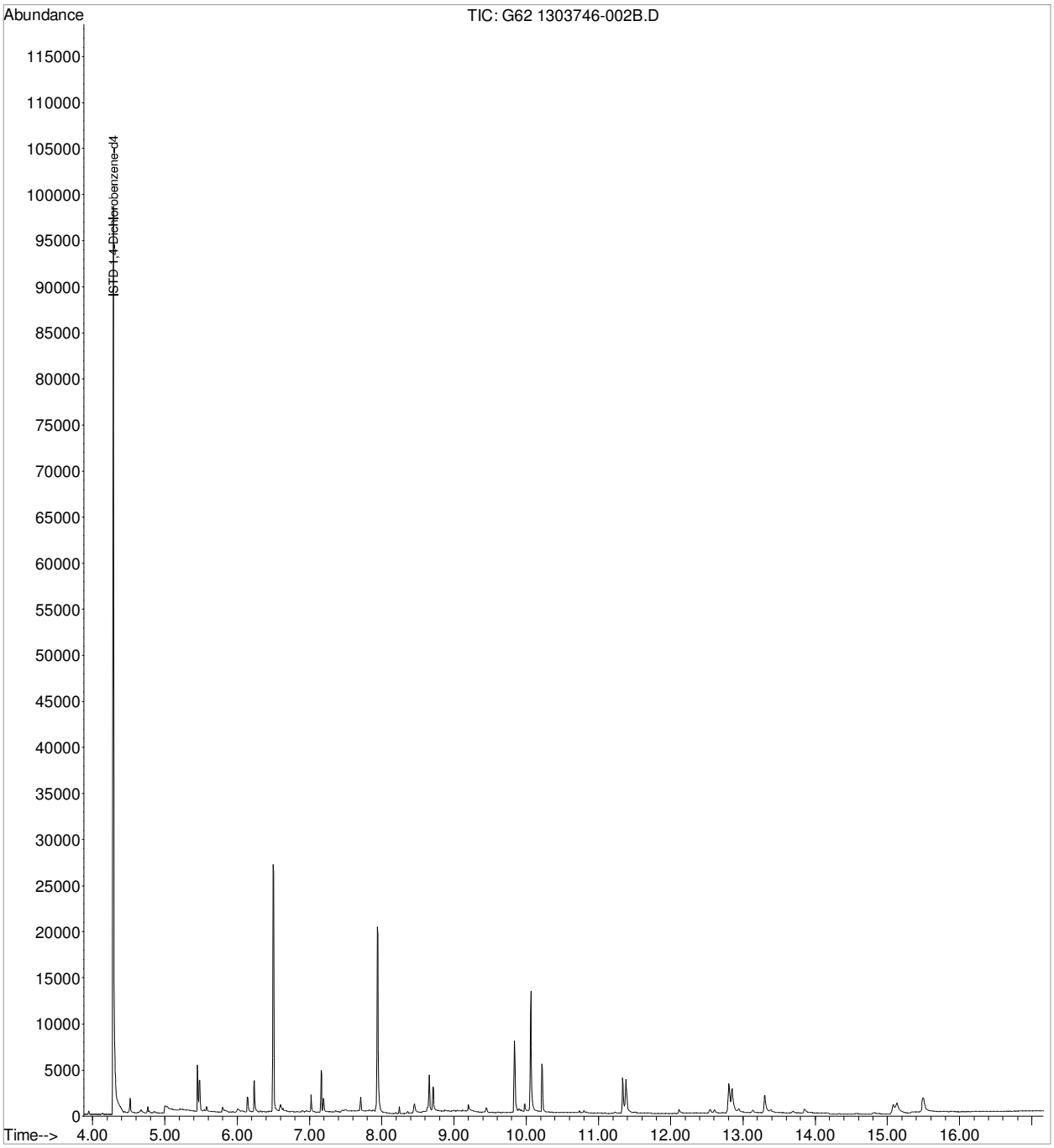
Quant Time: Apr 02 07:07:22 2013
Quant Method : C:\MSDCHEM\1\METHODS\PAH GWM QUANT SIM 03-20-2013.M
Quant Title : Semi-Volatile Compounds HP-GCMS 5973-B
QLast Update : Mon Apr 01 08:43:20 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : Z:\MSDCHEM\1\DATA\APR 13\01APR13-A\
Data File : G62 1303746-002B.D
Acq On : 2 Apr 2013 12:23 am
Operator : ALICIA HABERLE
Sample : 1303746-002B
Misc : SAMP
ALS Vial : 13 Sample Multiplier: 1

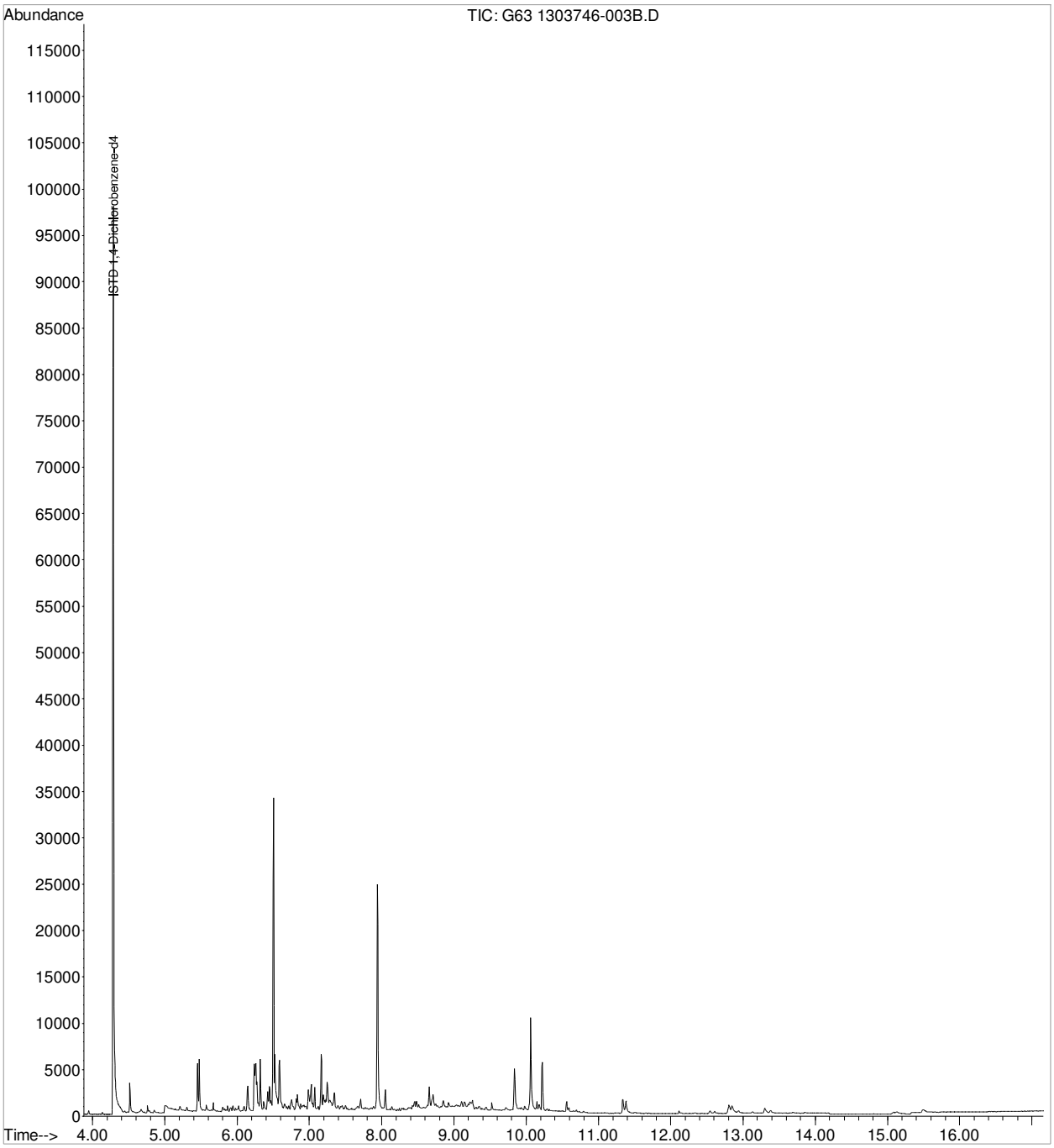
Quant Time: Apr 02 07:09:19 2013
Quant Method : C:\MSDCHEM\1\METHODS\PAH GWM QUANT SIM 03-20-2013.M
Quant Title : Semi-Volatile Compounds HP-GCMS 5973-B
QLast Update : Mon Apr 01 08:43:20 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : Z:\MSDCHEM\1\DATA\APR 13\01APR13-A\
Data File : G63 1303746-003B.D
Acq On : 2 Apr 2013 12:49 am
Operator : ALICIA HABERLE
Sample : 1303746-003B
Misc : SAMP
ALS Vial : 14 Sample Multiplier: 1

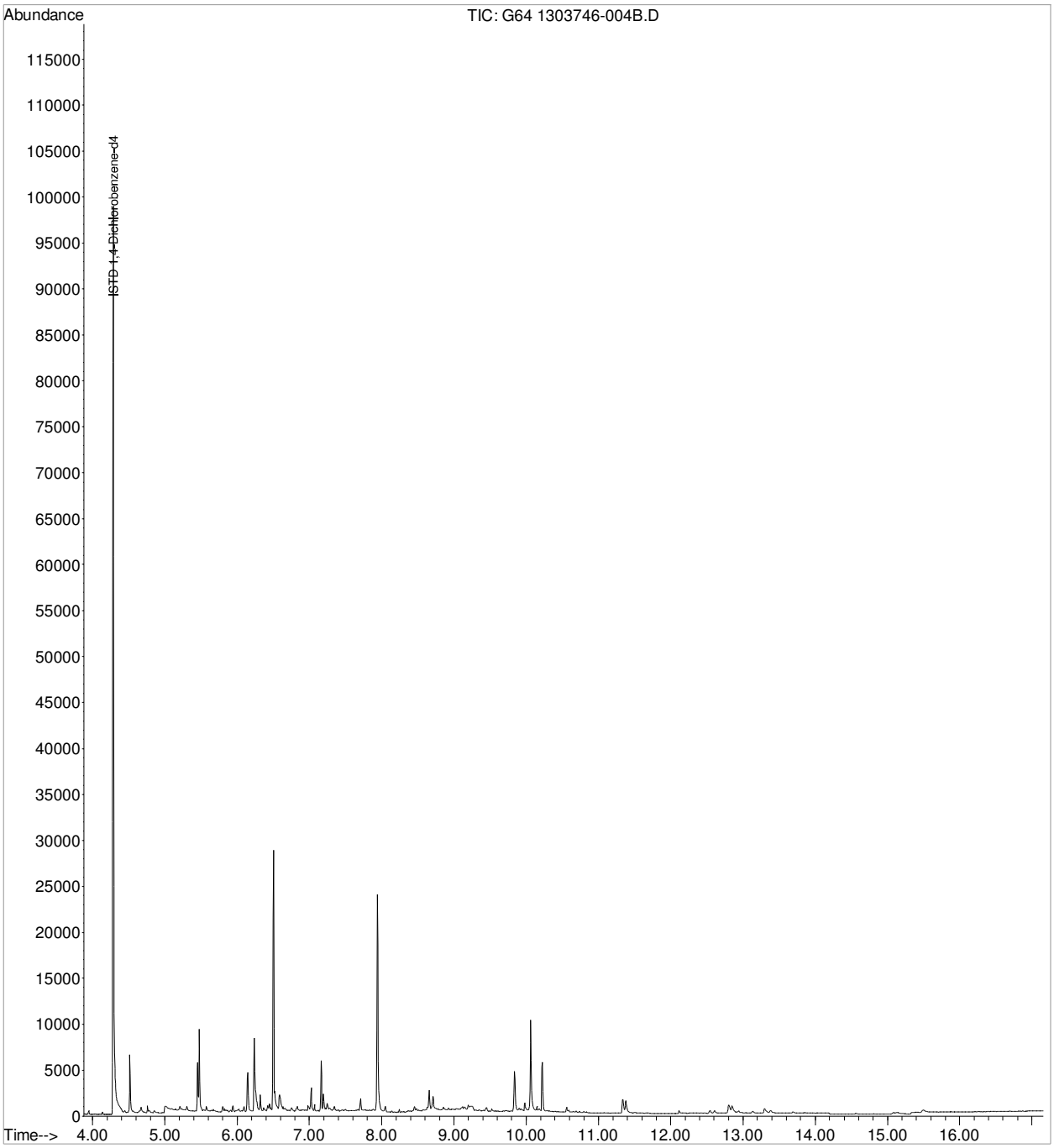
Quant Time: Apr 02 07:10:02 2013
Quant Method : C:\MSDCHEM\1\METHODS\PAH GWM QUANT SIM 03-20-2013.M
Quant Title : Semi-Volatile Compounds HP-GCMS 5973-B
QLast Update : Mon Apr 01 08:43:20 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : Z:\MSDCHEM\1\DATA\APR 13\01APR13-A\
Data File : G64 1303746-004B.D
Acq On : 2 Apr 2013 1:16 am
Operator : ALICIA HABERLE
Sample : 1303746-004B
Misc : SAMP
ALS Vial : 15 Sample Multiplier: 1

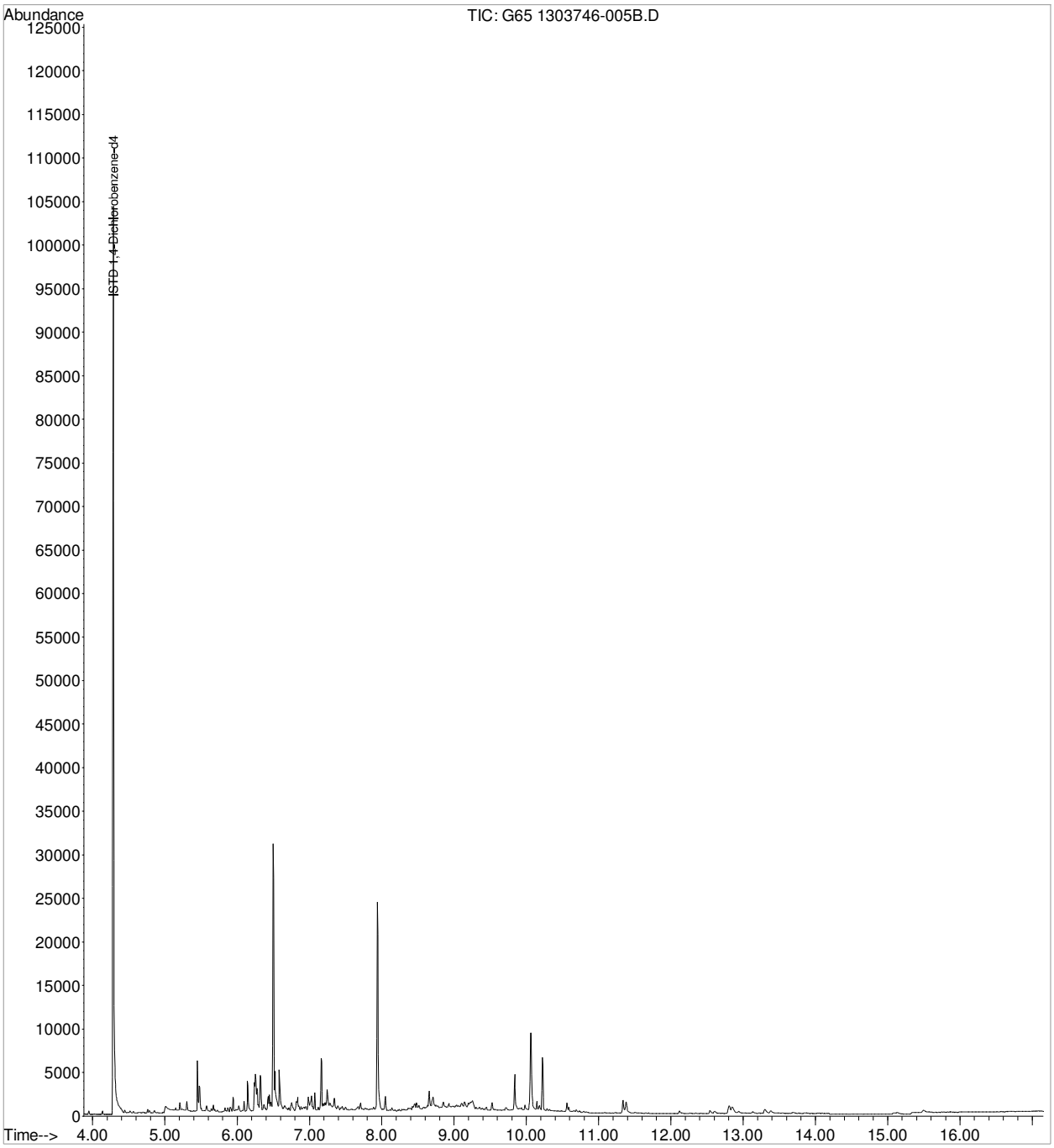
Quant Time: Apr 02 07:10:37 2013
Quant Method : C:\MSDCHEM\1\METHODS\PAH GWM QUANT SIM 03-20-2013.M
Quant Title : Semi-Volatile Compounds HP-GCMS 5973-B
QLast Update : Mon Apr 01 08:43:20 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : Z:\MSDCHEM\1\DATA\APR 13\01APR13-A\
Data File : G65 1303746-005B.D
Acq On : 2 Apr 2013 1:43 am
Operator : ALICIA HABERLE
Sample : 1303746-005B
Misc : SAMP
ALS Vial : 16 Sample Multiplier: 1

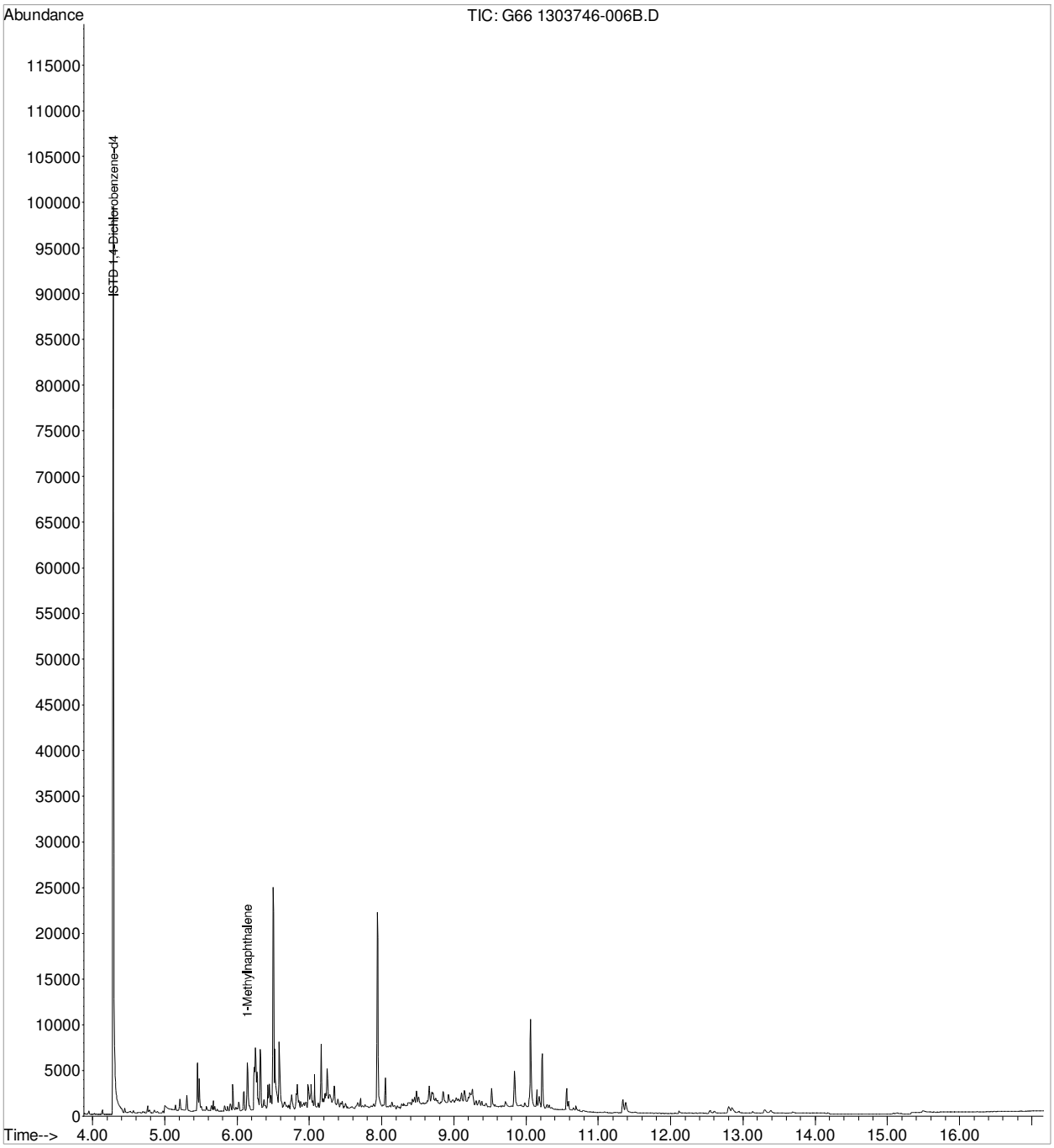
Quant Time: Apr 02 07:11:01 2013
Quant Method : C:\MSDCHEM\1\METHODS\PAH GWM QUANT SIM 03-20-2013.M
Quant Title : Semi-Volatile Compounds HP-GCMS 5973-B
QLast Update : Mon Apr 01 08:43:20 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : Z:\MSDCHEM\1\DATA\APR 13\01APR13-A\
Data File : G66 1303746-006B.D
Acq On : 2 Apr 2013 2:09 am
Operator : ALICIA HABERLE
Sample : 1303746-006B
Misc : SAMP
ALS Vial : 17 Sample Multiplier: 1

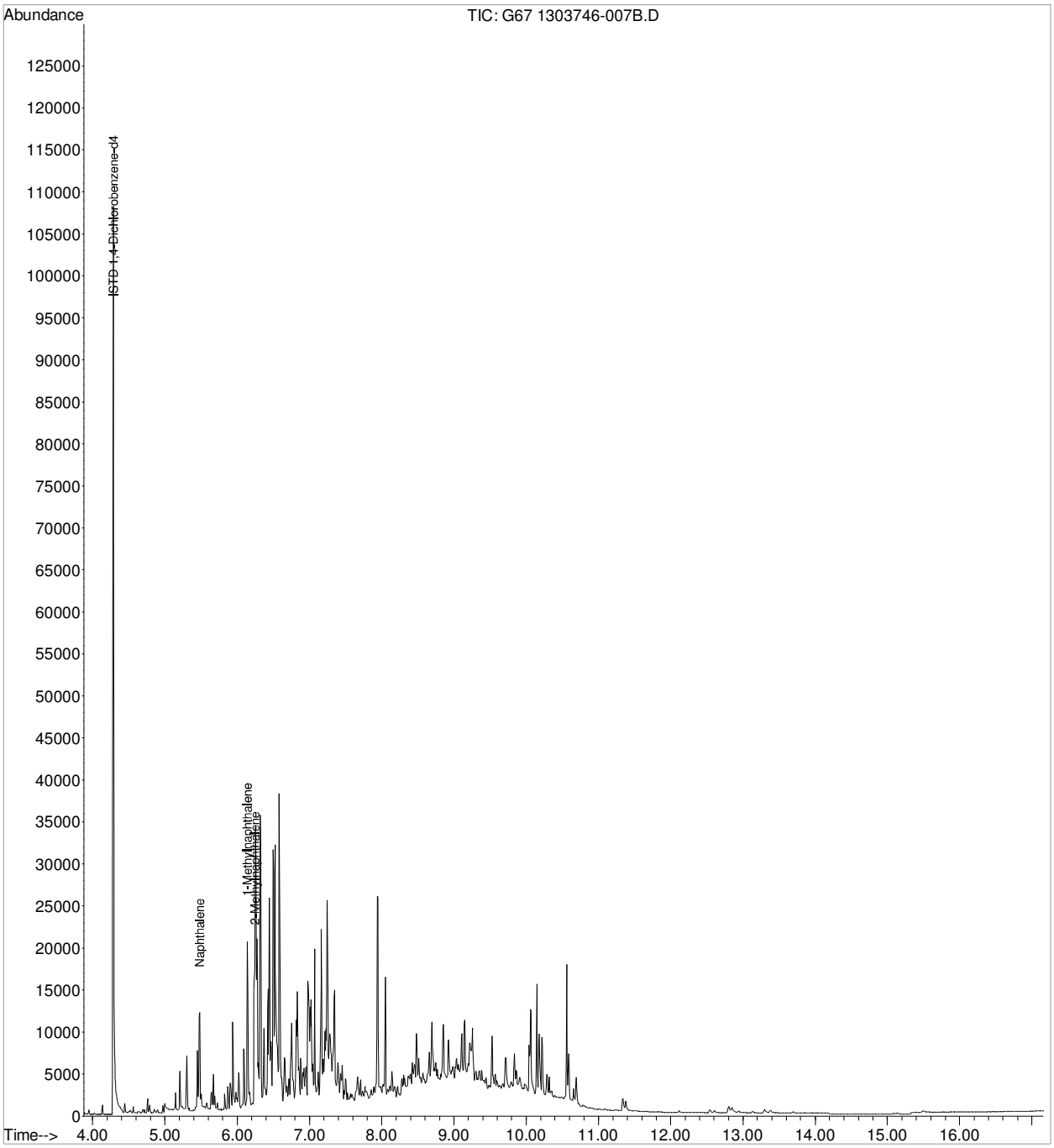
Quant Time: Apr 02 07:11:27 2013
Quant Method : C:\MSDCHEM\1\METHODS\PAH GWM QUANT SIM 03-20-2013.M
Quant Title : Semi-Volatile Compounds HP-GCMS 5973-B
QLast Update : Mon Apr 01 08:43:20 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : Z:\MSDCHEM\1\DATA\APR 13\01APR13-A\
Data File : G67 1303746-007B.D
Acq On : 2 Apr 2013 2:36 am
Operator : ALICIA HABERLE
Sample : 1303746-007B
Misc : SAMP
ALS Vial : 18 Sample Multiplier: 1

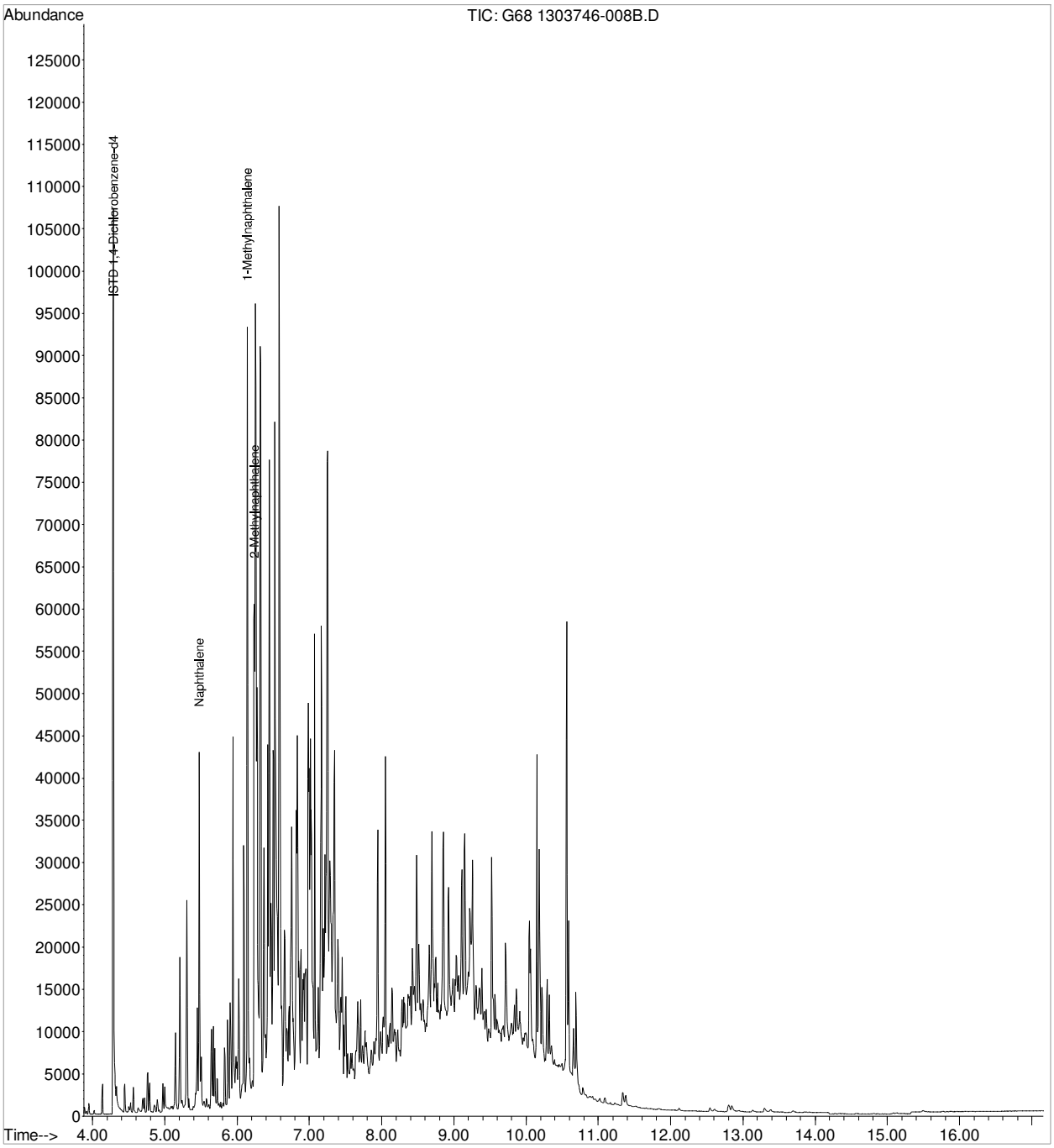
Quant Time: Apr 02 07:11:57 2013
Quant Method : C:\MSDCHEM\1\METHODS\PAH GWM QUANT SIM 03-20-2013.M
Quant Title : Semi-Volatile Compounds HP-GCMS 5973-B
QLast Update : Mon Apr 01 08:43:20 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : Z:\MSDCHEM\1\DATA\APR 13\01APR13-A\
Data File : G68 1303746-008B.D
Acq On : 2 Apr 2013 3:02 am
Operator : ALICIA HABERLE
Sample : 1303746-008B
Misc : SAMP
ALS Vial : 19 Sample Multiplier: 1

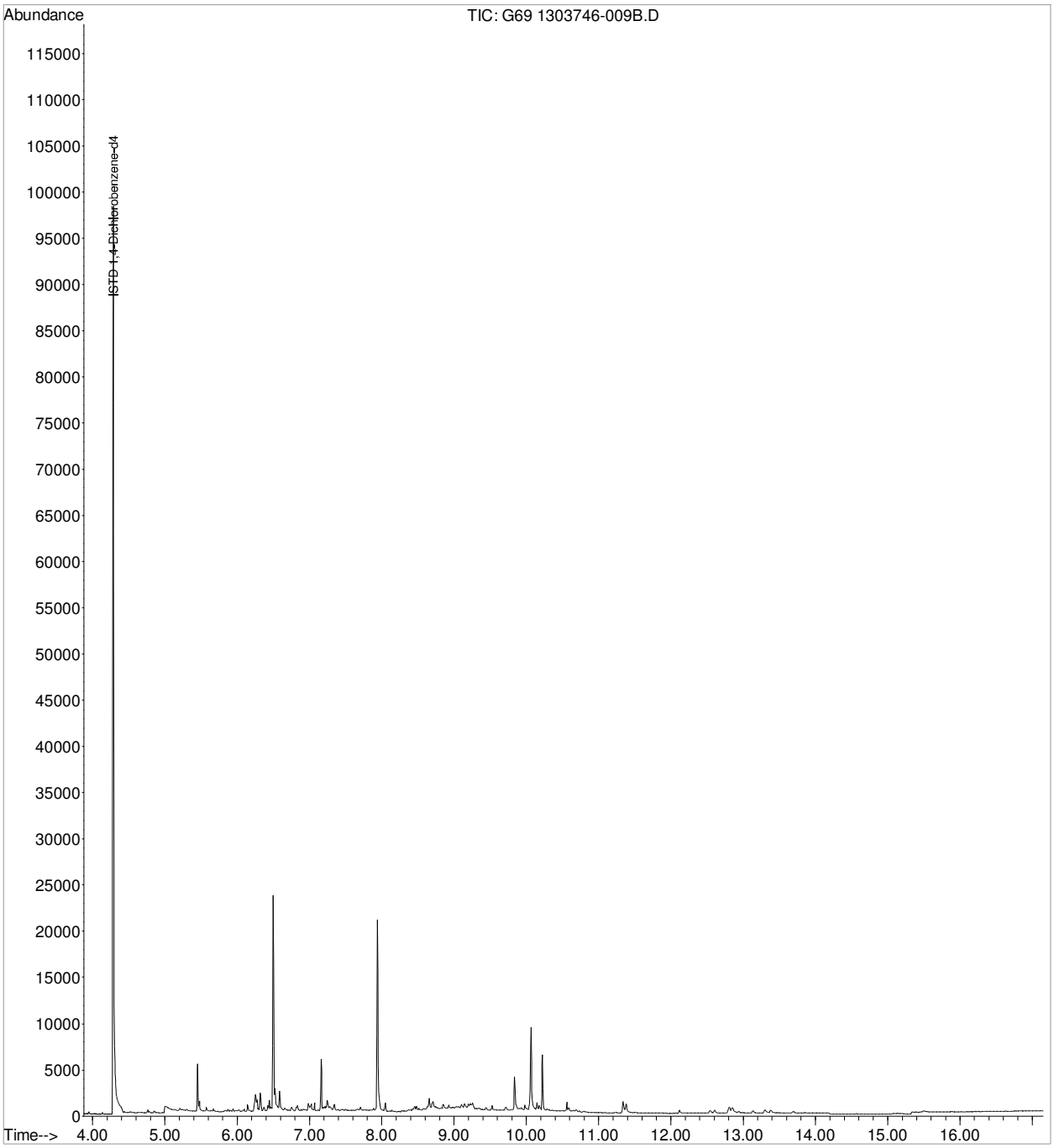
Quant Time: Apr 02 07:12:30 2013
Quant Method : C:\MSDCHEM\1\METHODS\PAH GWM QUANT SIM 03-20-2013.M
Quant Title : Semi-Volatile Compounds HP-GCMS 5973-B
QLast Update : Mon Apr 01 08:43:20 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : Z:\MSDCHEM\1\DATA\APR 13\01APR13-A\
Data File : G69 1303746-009B.D
Acq On : 2 Apr 2013 3:29 am
Operator : ALICIA HABERLE
Sample : 1303746-009B
Misc : SAMP
ALS Vial : 20 Sample Multiplier: 1

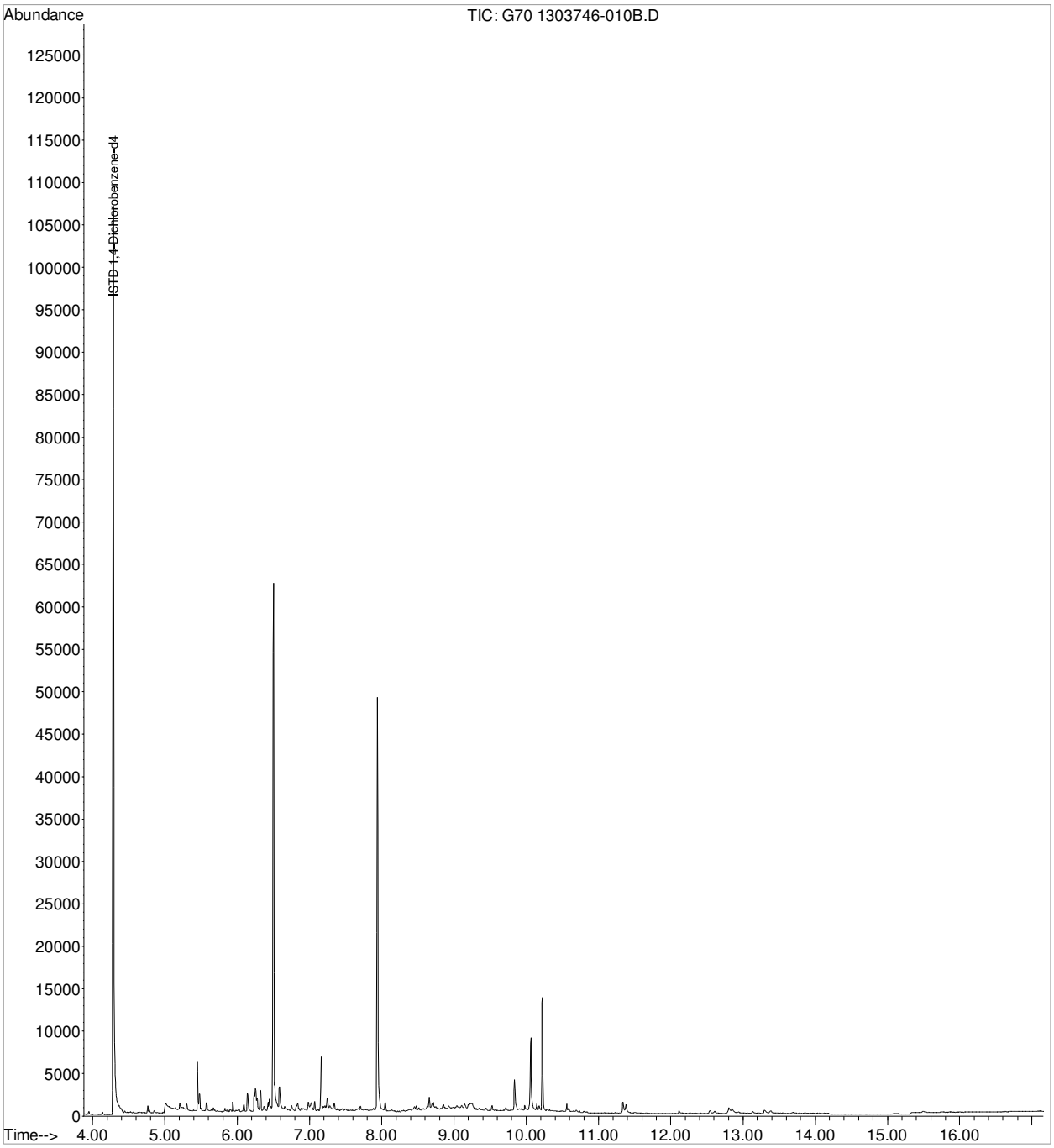
Quant Time: Apr 02 07:12:55 2013
Quant Method : C:\MSDCHEM\1\METHODS\PAH GWM QUANT SIM 03-20-2013.M
Quant Title : Semi-Volatile Compounds HP-GCMS 5973-B
QLast Update : Mon Apr 01 08:43:20 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : Z:\MSDCHEM\1\DATA\APR 13\01APR13-A\
Data File : G70 1303746-010B.D
Acq On : 2 Apr 2013 3:55 am
Operator : ALICIA HABERLE
Sample : 1303746-010B
Misc : SAMP
ALS Vial : 21 Sample Multiplier: 1

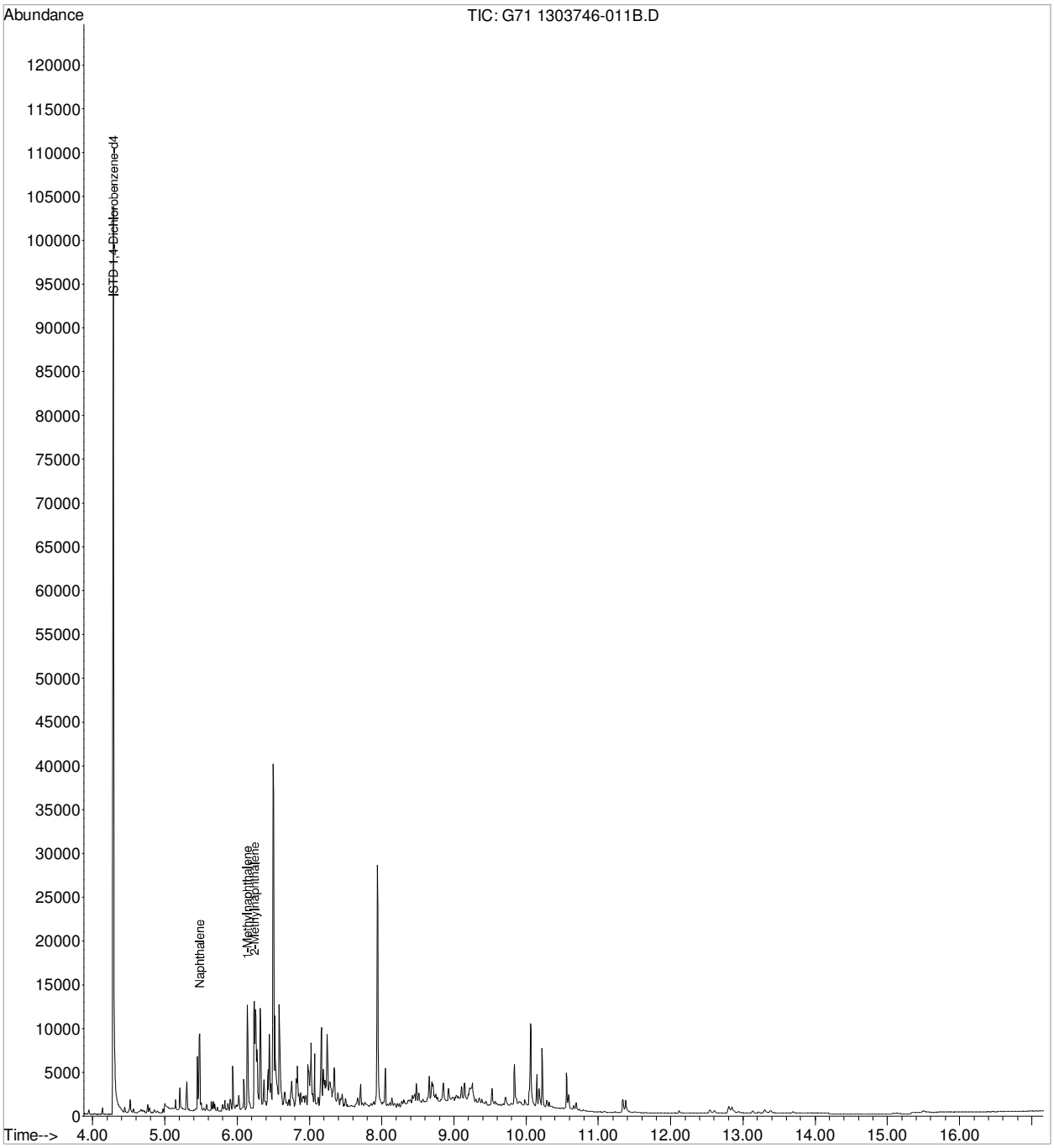
Quant Time: Apr 02 07:13:19 2013
Quant Method : C:\MSDCHEM\1\METHODS\PAH GWM QUANT SIM 03-20-2013.M
Quant Title : Semi-Volatile Compounds HP-GCMS 5973-B
QLast Update : Mon Apr 01 08:43:20 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : Z:\MSDCHEM\1\DATA\APR 13\01APR13-A\
Data File : G71 1303746-011B.D
Acq On : 2 Apr 2013 4:22 am
Operator : ALICIA HABERLE
Sample : 1303746-011B
Misc : SAMP
ALS Vial : 22 Sample Multiplier: 1

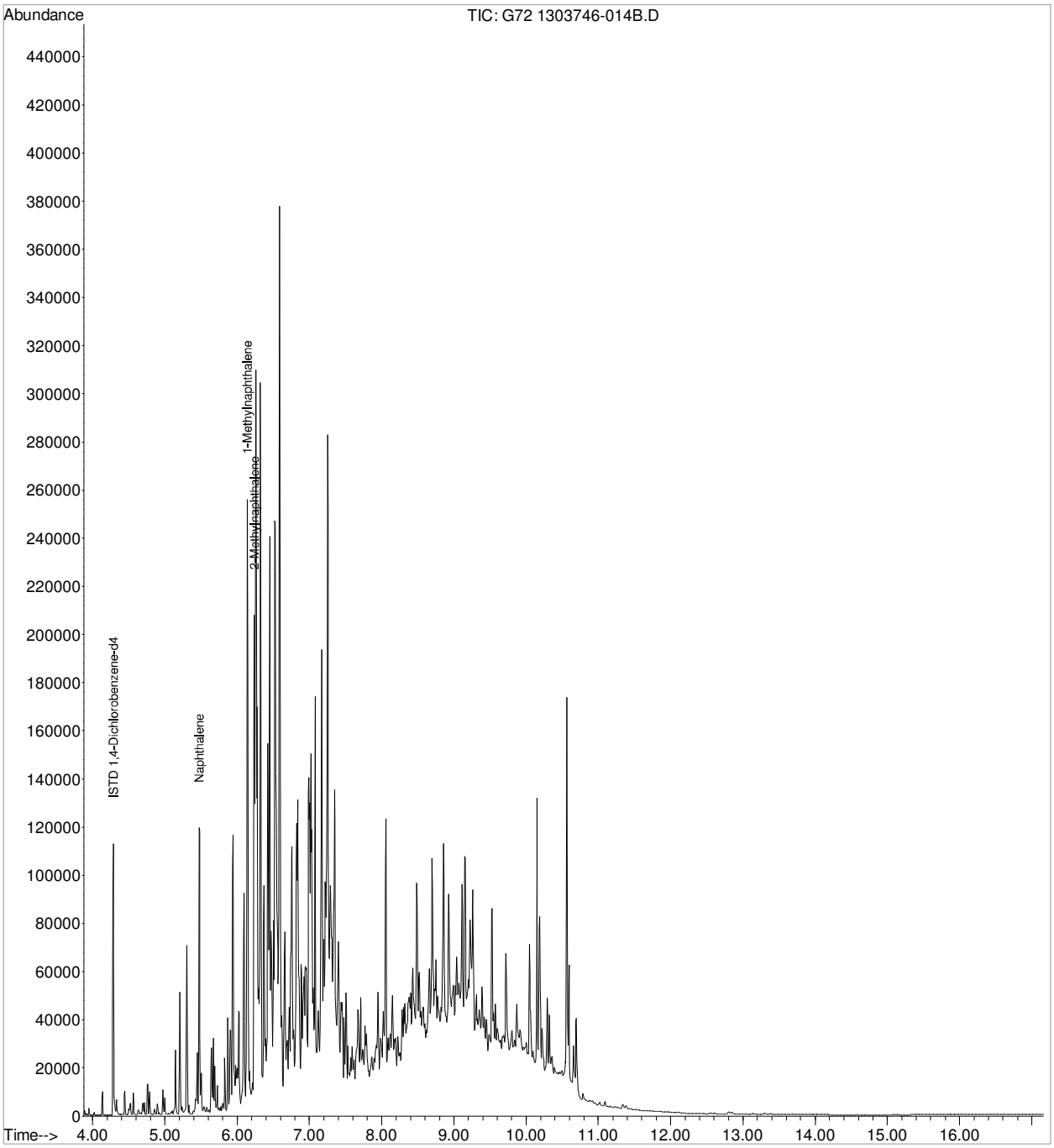
Quant Time: Apr 02 07:16:19 2013
Quant Method : C:\MSDCHEM\1\METHODS\PAH GWM QUANT SIM 03-20-2013.M
Quant Title : Semi-Volatile Compounds HP-GCMS 5973-B
QLast Update : Mon Apr 01 08:43:20 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : Z:\MSDCHEM\1\DATA\APR 13\01APR13-A\
Data File : G72 1303746-014B.D
Acq On : 2 Apr 2013 4:48 am
Operator : ALICIA HABERLE
Sample : 1303746-014B
Misc : SAMP
ALS Vial : 23 Sample Multiplier: 1

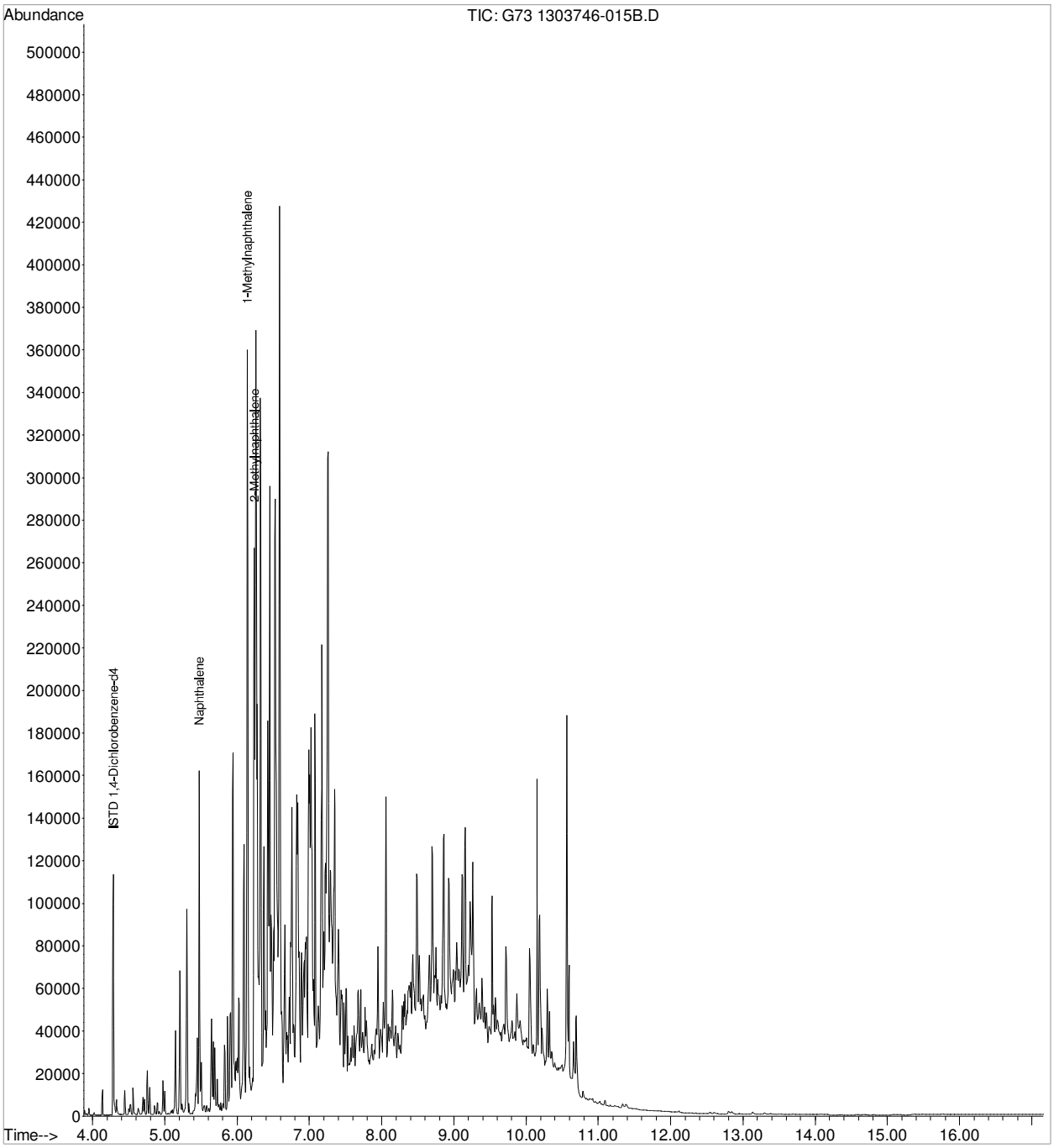
Quant Time: Apr 02 07:16:56 2013
Quant Method : C:\MSDCHEM\1\METHODS\PAH GWM QUANT SIM 03-20-2013.M
Quant Title : Semi-Volatile Compounds HP-GCMS 5973-B
QLast Update : Mon Apr 01 08:43:20 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : Z:\MSDCHEM\1\DATA\APR 13\01APR13-A\
Data File : G73 1303746-015B.D
Acq On : 2 Apr 2013 5:14 am
Operator : ALICIA HABERLE
Sample : 1303746-015B
Misc : SAMP
ALS Vial : 24 Sample Multiplier: 1

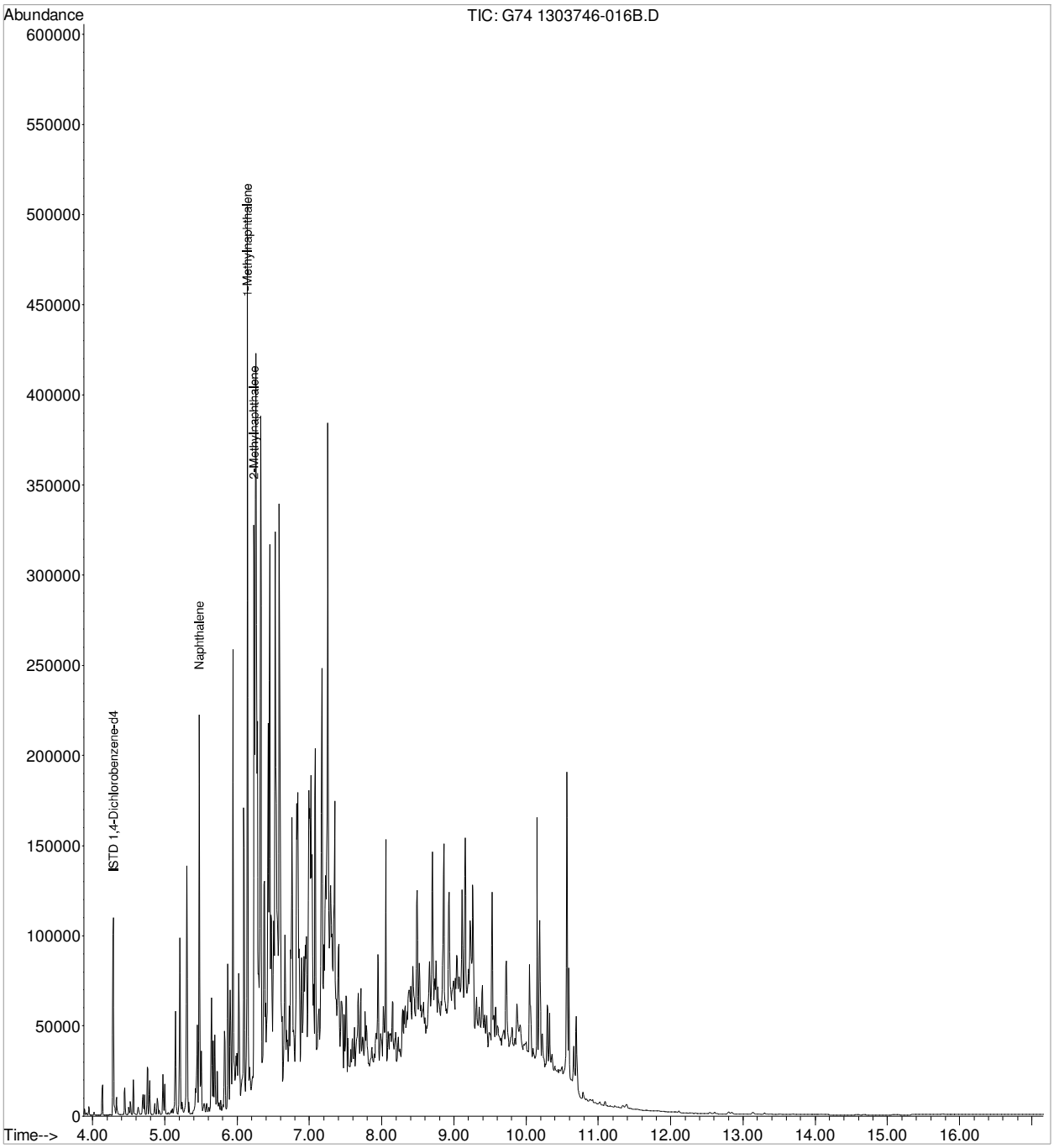
Quant Time: Apr 02 07:17:34 2013
Quant Method : C:\MSDCHEM\1\METHODS\PAH GWM QUANT SIM 03-20-2013.M
Quant Title : Semi-Volatile Compounds HP-GCMS 5973-B
QLast Update : Mon Apr 01 08:43:20 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : Z:\MSDCHEM\1\DATA\APR 13\01APR13-A\
Data File : G74 1303746-016B.D
Acq On : 2 Apr 2013 5:41 am
Operator : ALICIA HABERLE
Sample : 1303746-016B
Misc : SAMP
ALS Vial : 25 Sample Multiplier: 1

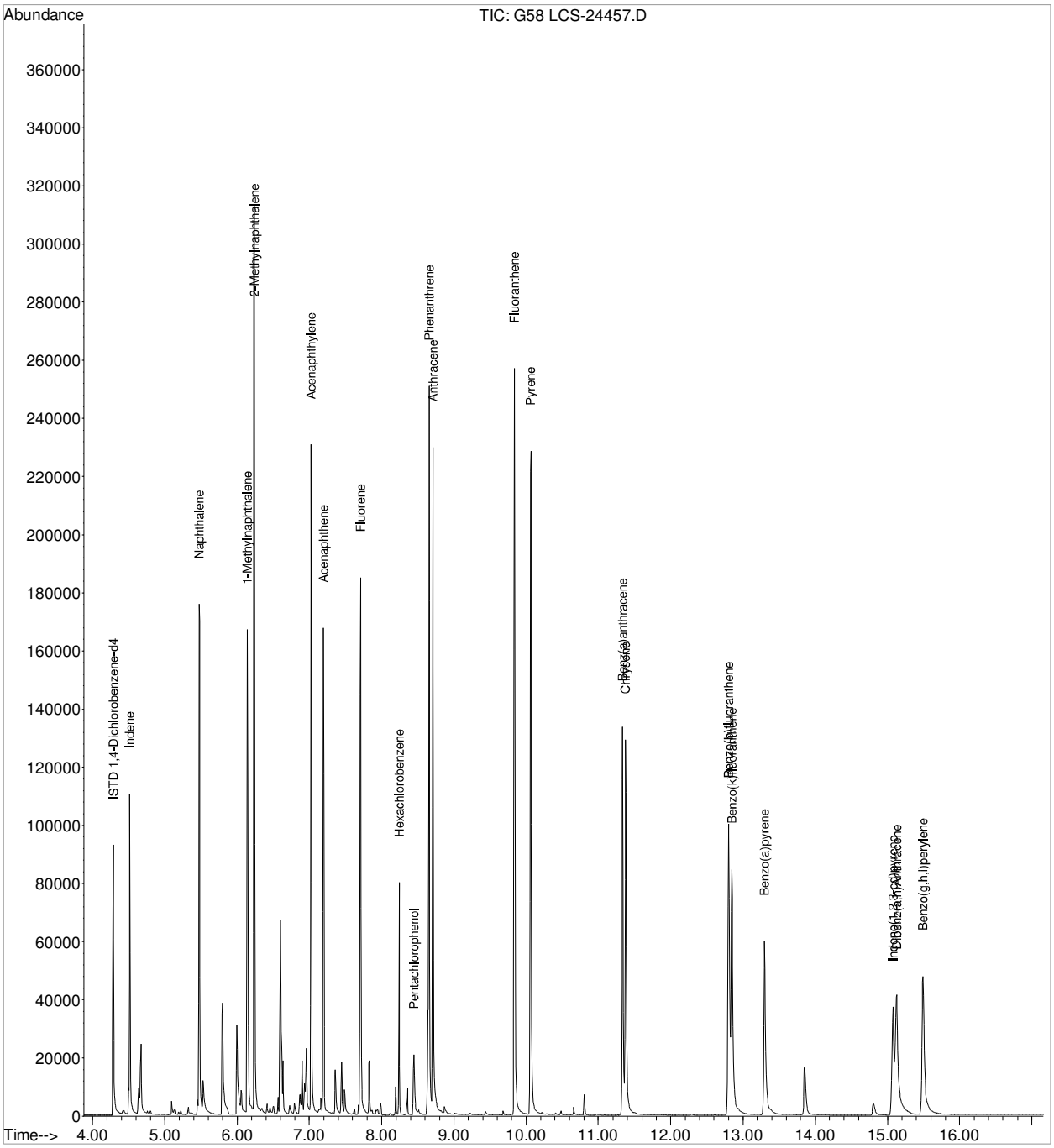
Quant Time: Apr 02 07:18:12 2013
Quant Method : C:\MSDCHEM\1\METHODS\PAH GWM QUANT SIM 03-20-2013.M
Quant Title : Semi-Volatile Compounds HP-GCMS 5973-B
QLast Update : Mon Apr 01 08:43:20 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : Z:\MSDCHEM\1\DATA\APR 13\01APR13-A\
Data File : G58 LCS-24457.D
Acq On : 1 Apr 2013 10:36 pm
Operator : ALICIA HABERLE
Sample : LCS-24457
Misc : LCS
ALS Vial : 9 Sample Multiplier: 1

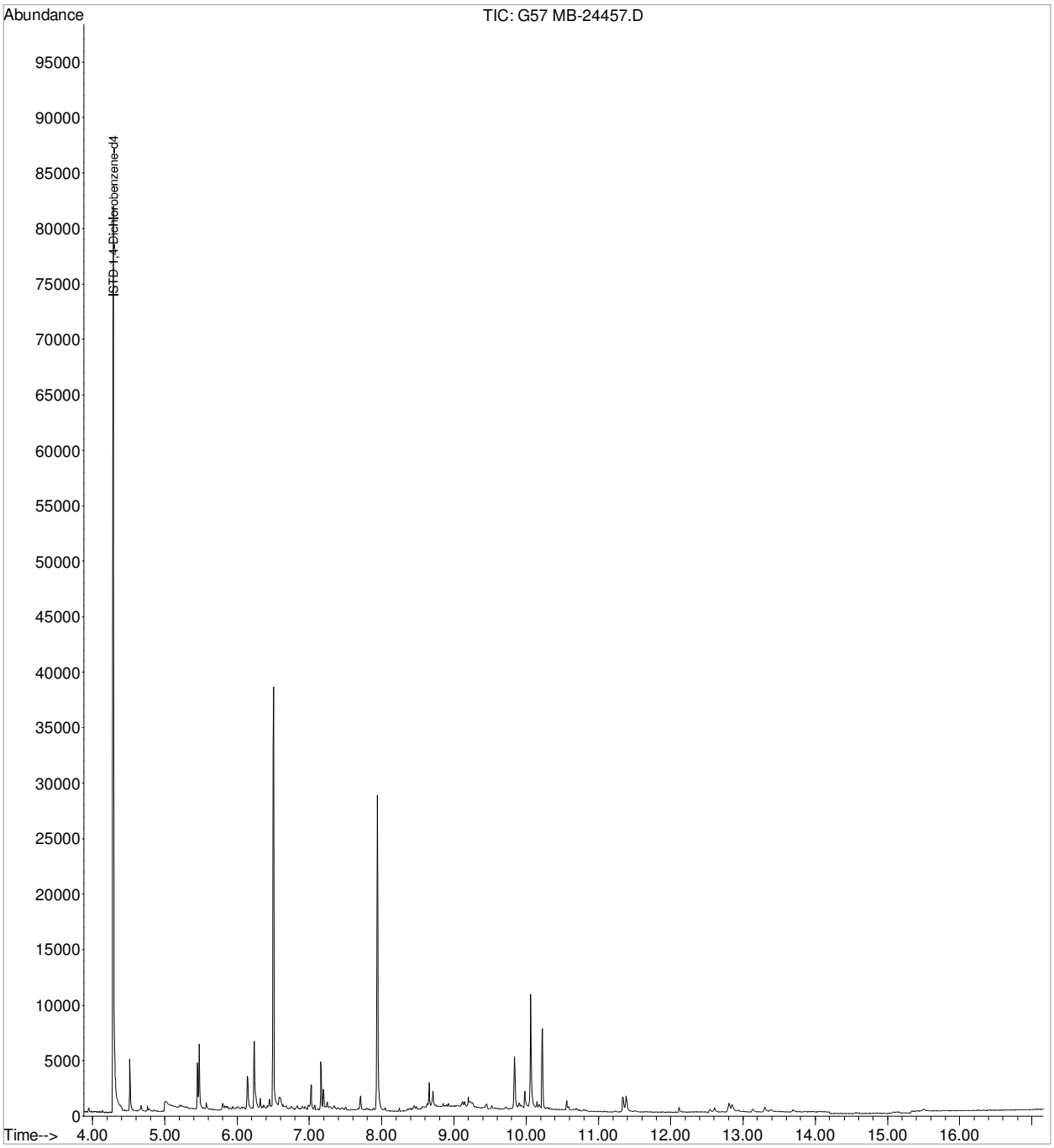
Quant Time: Apr 02 06:16:24 2013
Quant Method : C:\MSDCHEM\1\METHODS\PAH GWM QUANT SIM 03-20-2013.M
Quant Title : Semi-Volatile Compounds HP-GCMS 5973-B
QLast Update : Mon Apr 01 08:43:20 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : Z:\MSDCHEM\1\DATA\APR 13\01APR13-A\
Data File : G57 MB-24457.D
Acq On : 1 Apr 2013 10:10 pm
Operator : ALICIA HABERLE
Sample : MB-24457
Misc : MBLK
ALS Vial : 8 Sample Multiplier: 1

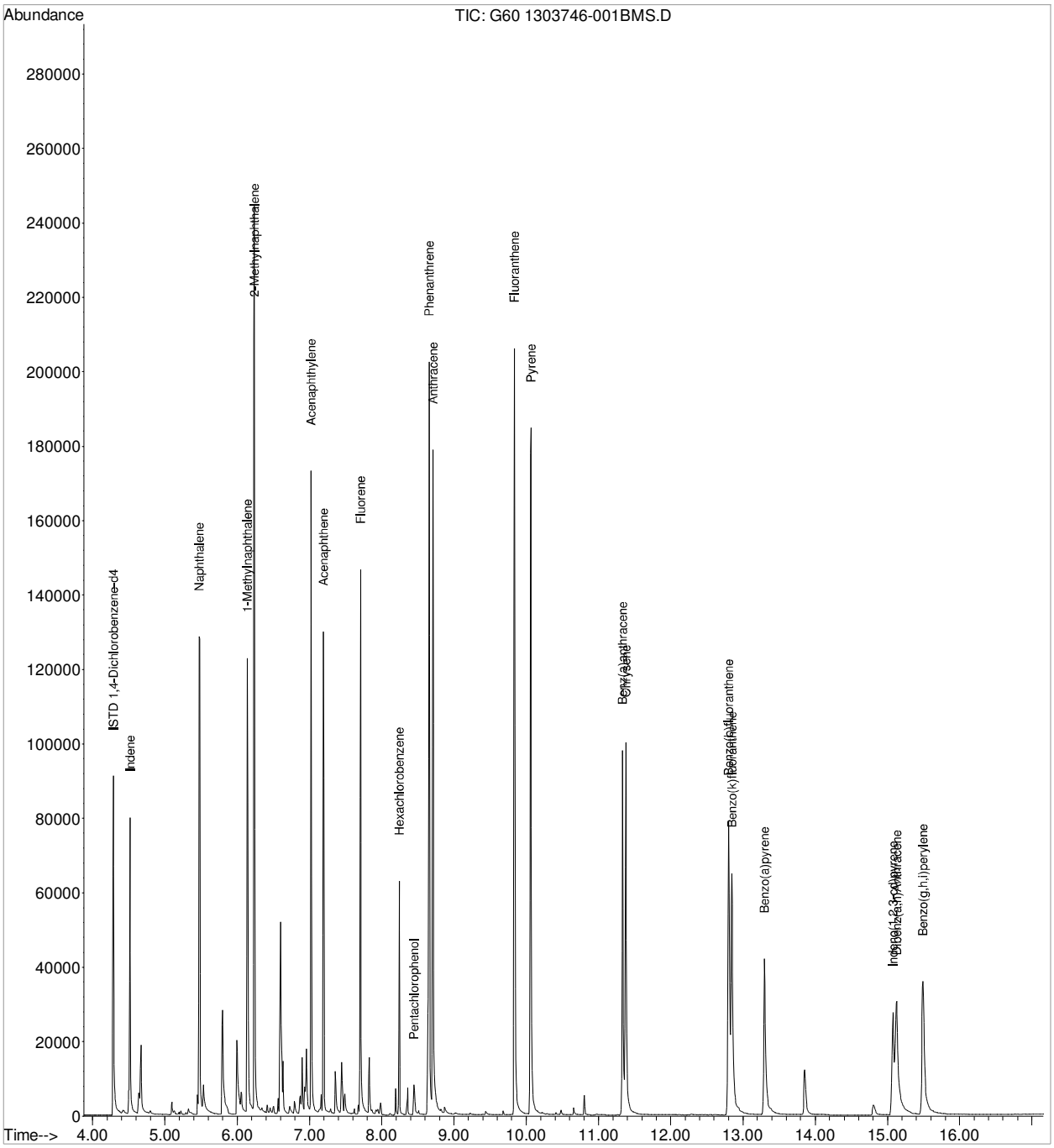
Quant Time: Apr 02 06:20:21 2013
Quant Method : C:\MSDCHEM\1\METHODS\PAH GWM QUANT SIM 03-20-2013.M
Quant Title : Semi-Volatile Compounds HP-GCMS 5973-B
QLast Update : Mon Apr 01 08:43:20 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : Z:\MSDCHEM\1\DATA\APR 13\01APR13-A\
Data File : G60 1303746-001BMS.D
Acq On : 1 Apr 2013 11:30 pm
Operator : ALICIA HABERLE
Sample : 1303746-001BMS
Misc : MS
ALS Vial : 11 Sample Multiplier: 1

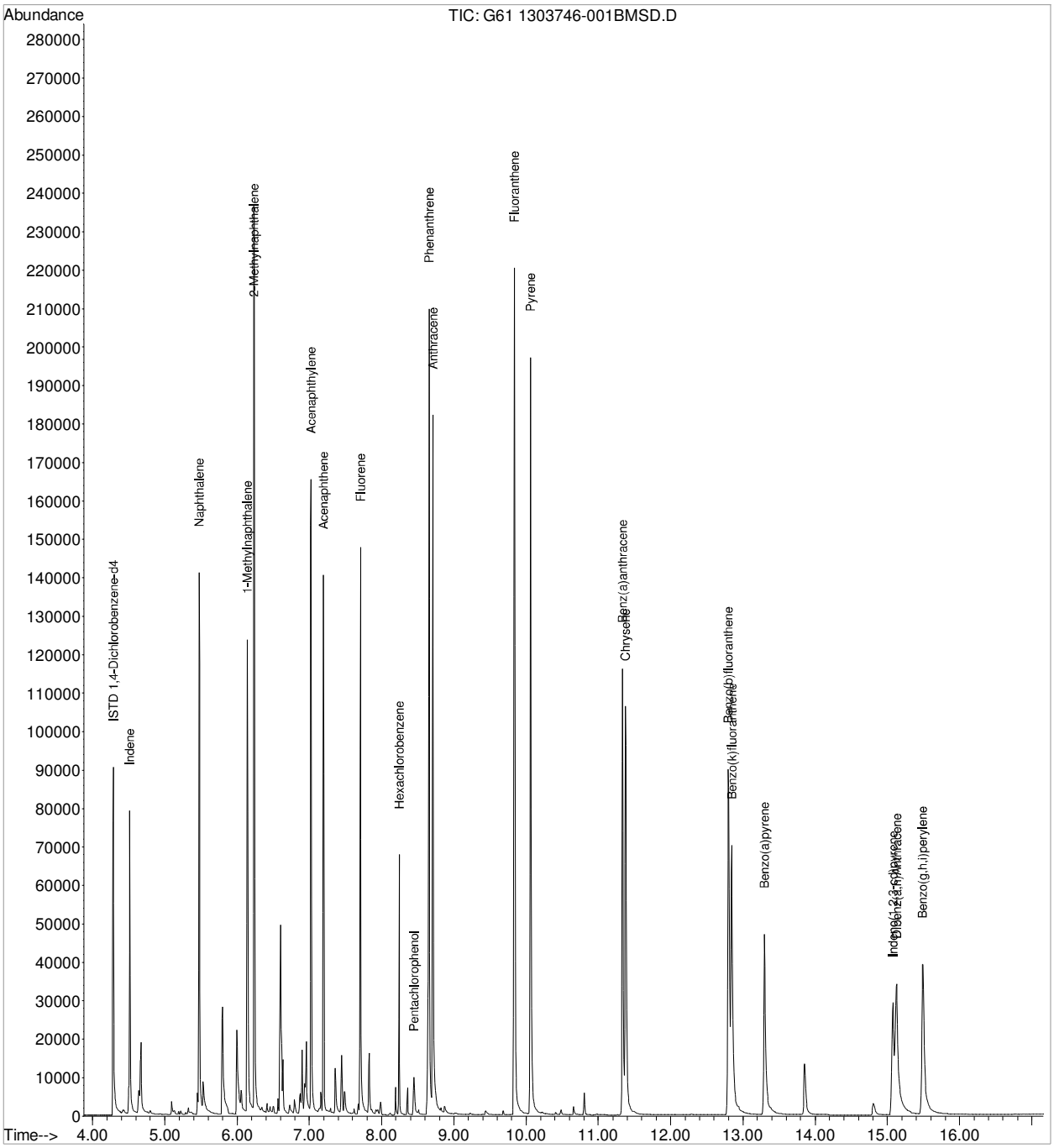
Quant Time: Apr 02 07:07:57 2013
Quant Method : C:\MSDCHEM\1\METHODS\PAH GWM QUANT SIM 03-20-2013.M
Quant Title : Semi-Volatile Compounds HP-GCMS 5973-B
QLast Update : Mon Apr 01 08:43:20 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : Z:\MSDCHEM\1\DATA\APR 13\01APR13-A\
Data File : G61 1303746-001BMSD.D
Acq On : 1 Apr 2013 11:56 pm
Operator : ALICIA HABERLE
Sample : 1303746-001BMSD
Misc : MSD
ALS Vial : 12 Sample Multiplier: 1

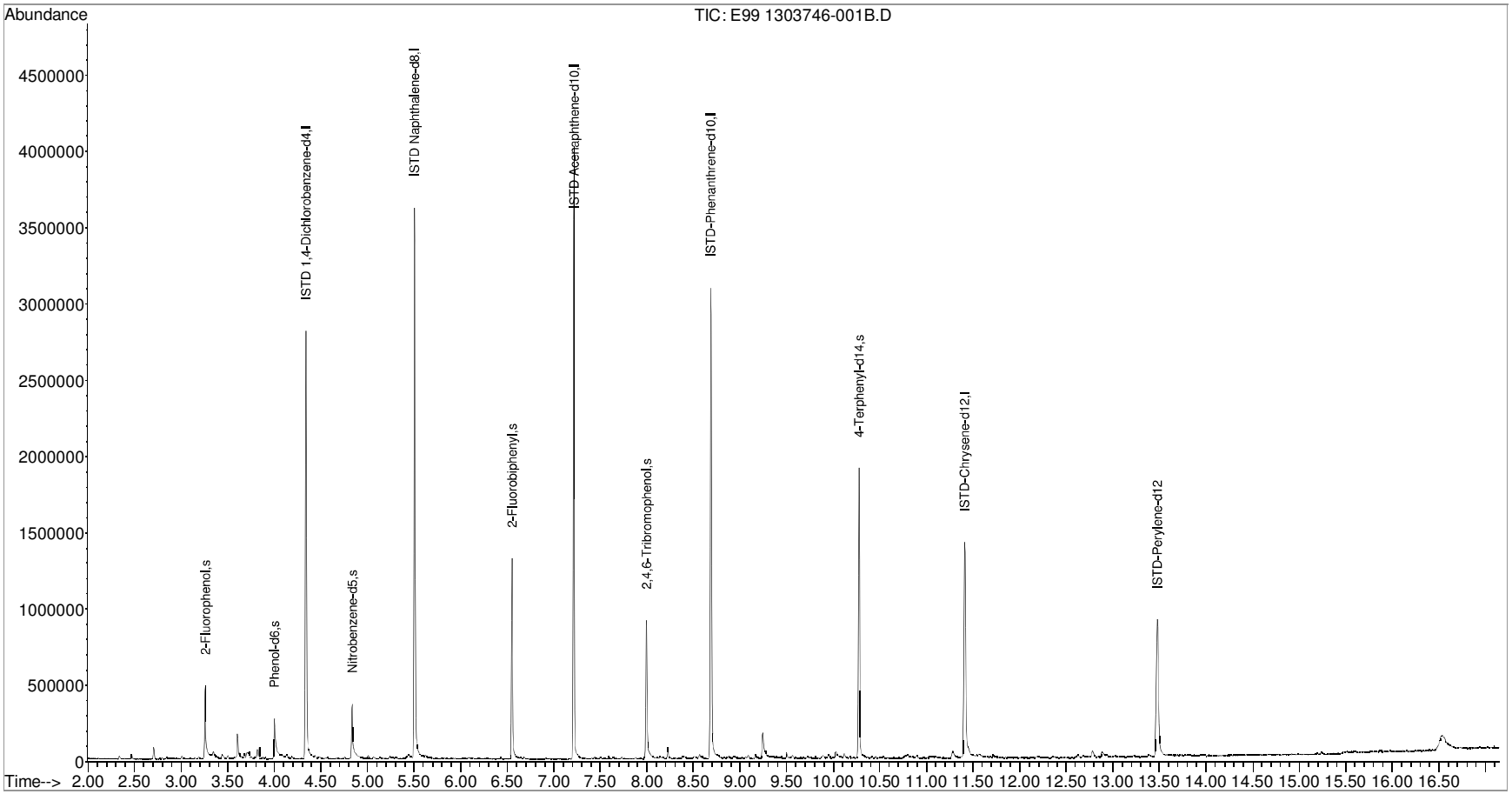
Quant Time: Apr 02 07:08:29 2013
Quant Method : C:\MSDCHEM\1\METHODS\PAH GWM QUANT SIM 03-20-2013.M
Quant Title : Semi-Volatile Compounds HP-GCMS 5973-B
QLast Update : Mon Apr 01 08:43:20 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : Z:\MSDCHEM\1\DATA\MAR 13\29MAR13-A\
Data File : E99 1303746-001B.D
Acq On : 29 Mar 2013 10:54 pm
Operator : ALICIA HABERLE
Sample : 1303746-001B
Misc : SAMP
ALS Vial : 32 Sample Multiplier: 1

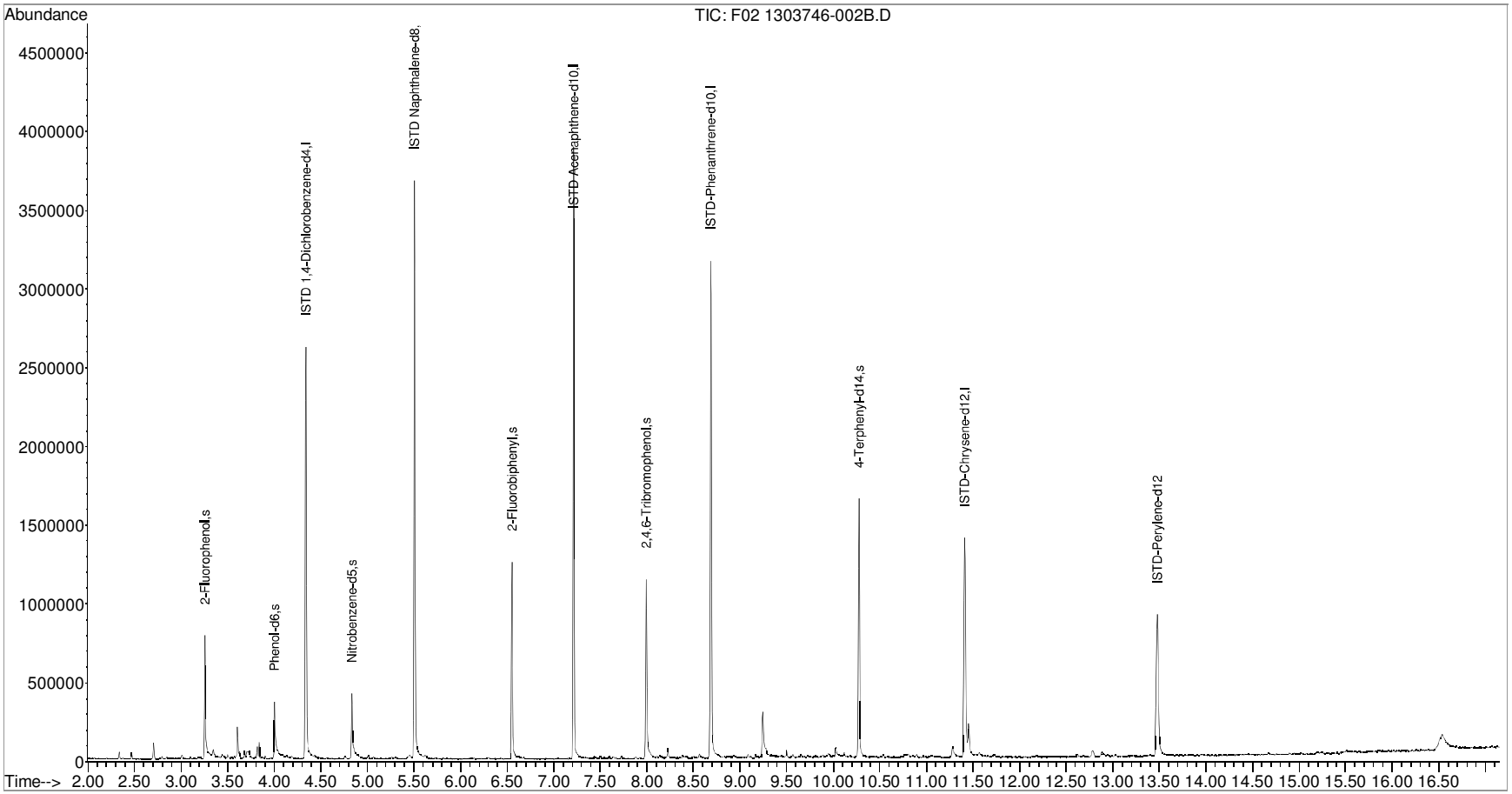
Quant Time: Mar 30 06:54:23 2013
Quant Method : C:\MSDCHEM\1\METHODS\QUANTFULLSV 03-19-13.M
Quant Title : Semi-Volatile Compounds HP-GCMS 5973-B
QLast Update : Fri Mar 29 07:52:23 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : Z:\MSDCHEM\1\DATA\MAR 13\29MAR13-A\
Data File : F02 1303746-002B.D
Acq On : 30 Mar 2013 12:14 am
Operator : ALICIA HABERLE
Sample : 1303746-002B
Misc : SAMP
ALS Vial : 35 Sample Multiplier: 1

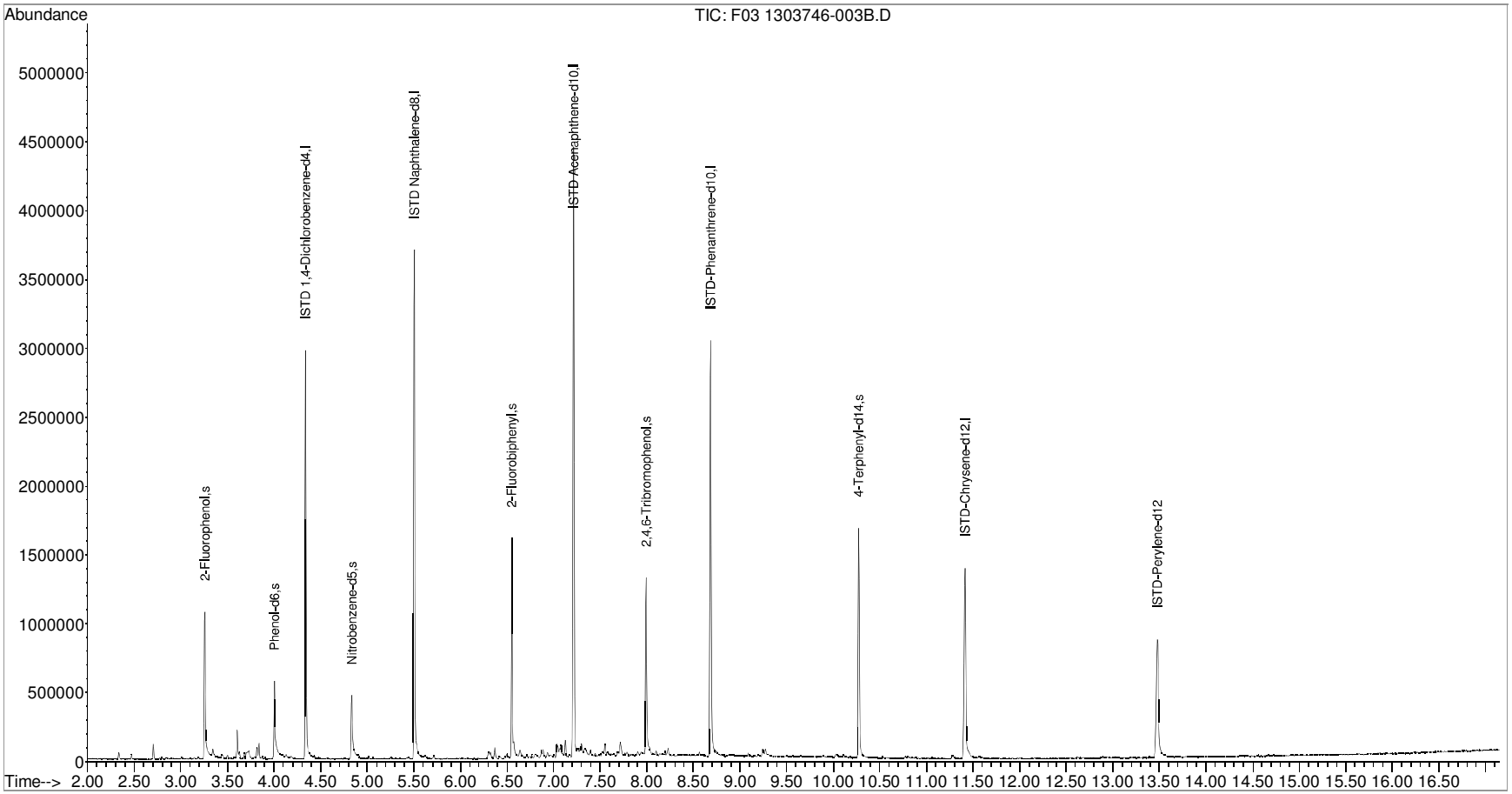
Quant Time: Mar 30 06:55:57 2013
Quant Method : C:\MSDCHEM\1\METHODS\QUANTFULLSV 03-19-13.M
Quant Title : Semi-Volatile Compounds HP-GCMS 5973-B
QLast Update : Fri Mar 29 07:52:23 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : Z:\MSDCHEM\1\DATA\MAR 13\29MAR13-A\
Data File : F03 1303746-003B.D
Acq On : 30 Mar 2013 12:41 am
Operator : ALICIA HABERLE
Sample : 1303746-003B
Misc : SAMP
ALS Vial : 36 Sample Multiplier: 1

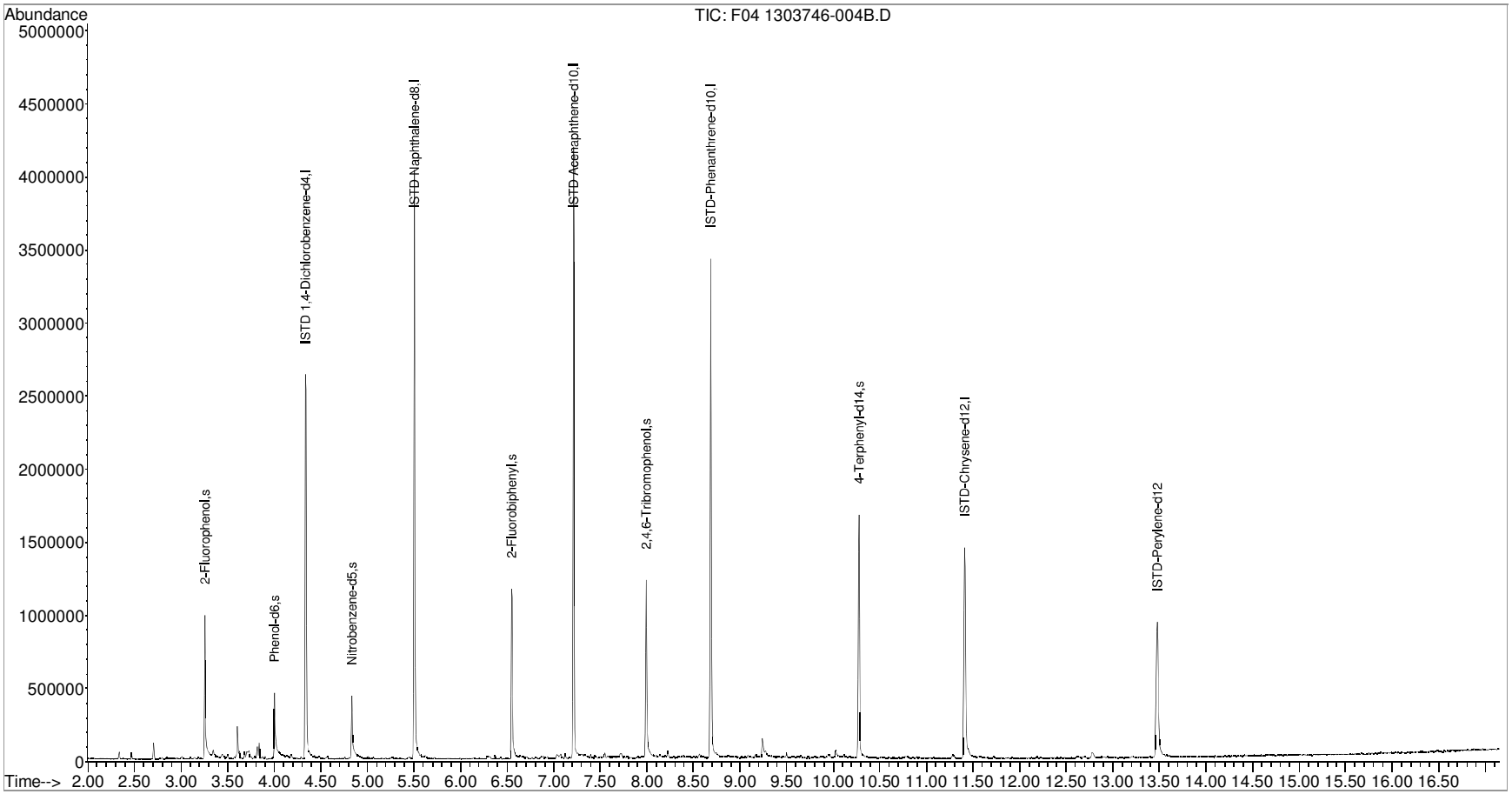
Quant Time: Mar 30 06:56:17 2013
Quant Method : C:\MSDCHEM\1\METHODS\QUANTFULLSV 03-19-13.M
Quant Title : Semi-Volatile Compounds HP-GCMS 5973-B
QLast Update : Fri Mar 29 07:52:23 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : Z:\MSDCHEM\1\DATA\MAR 13\29MAR13-A\
Data File : F04 1303746-004B.D
Acq On : 30 Mar 2013 1:08 am
Operator : ALICIA HABERLE
Sample : 1303746-004B
Misc : SAMP
ALS Vial : 37 Sample Multiplier: 1

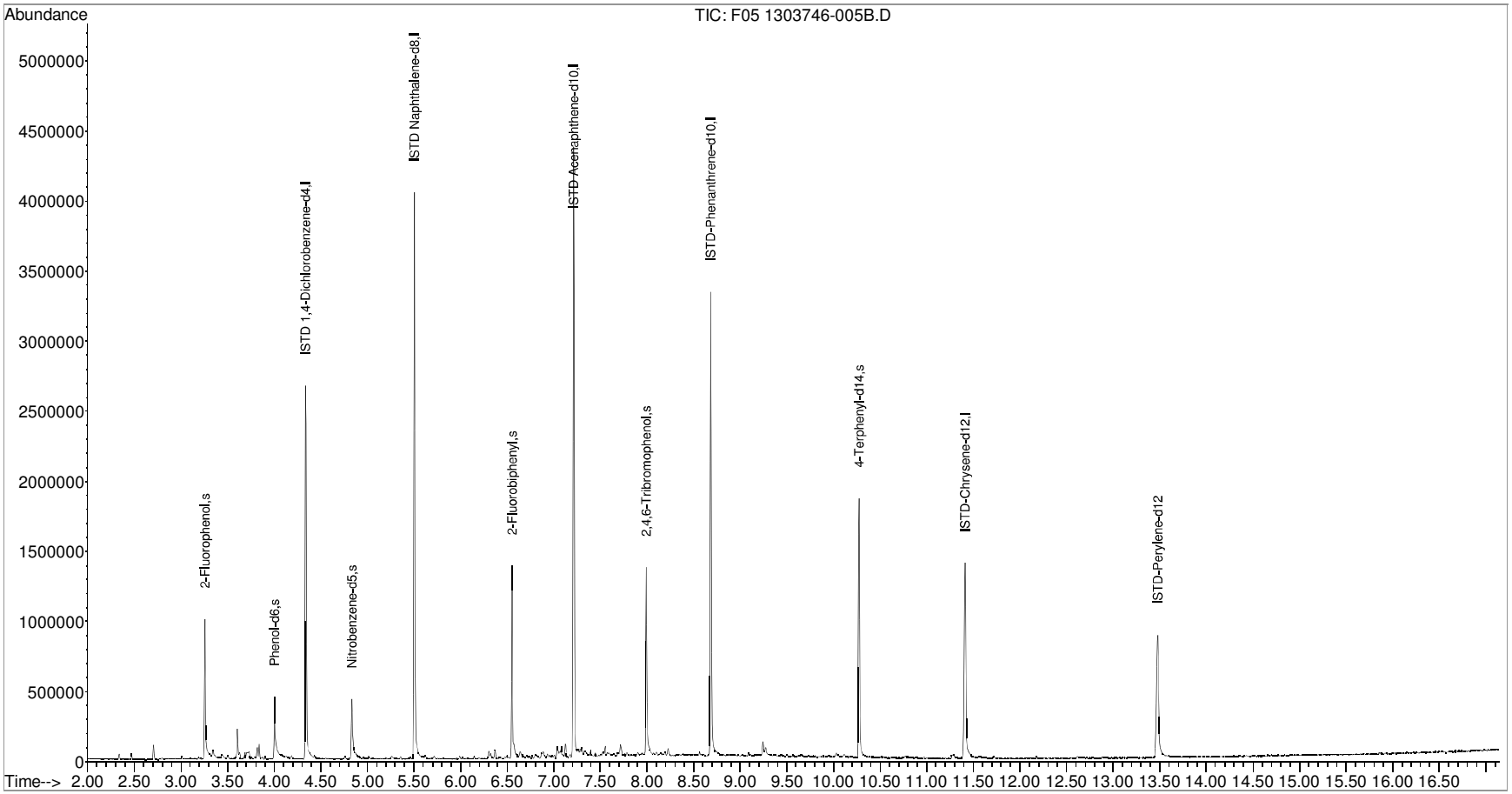
Quant Time: Mar 30 06:56:37 2013
Quant Method : C:\MSDCHEM\1\METHODS\QUANTFULLSV 03-19-13.M
Quant Title : Semi-Volatile Compounds HP-GCMS 5973-B
QLast Update : Fri Mar 29 07:52:23 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : Z:\MSDCHEM\1\DATA\MAR 13\29MAR13-A\
Data File : F05 1303746-005B.D
Acq On : 30 Mar 2013 1:34 am
Operator : ALICIA HABERLE
Sample : 1303746-005B
Misc : SAMP
ALS Vial : 38 Sample Multiplier: 1

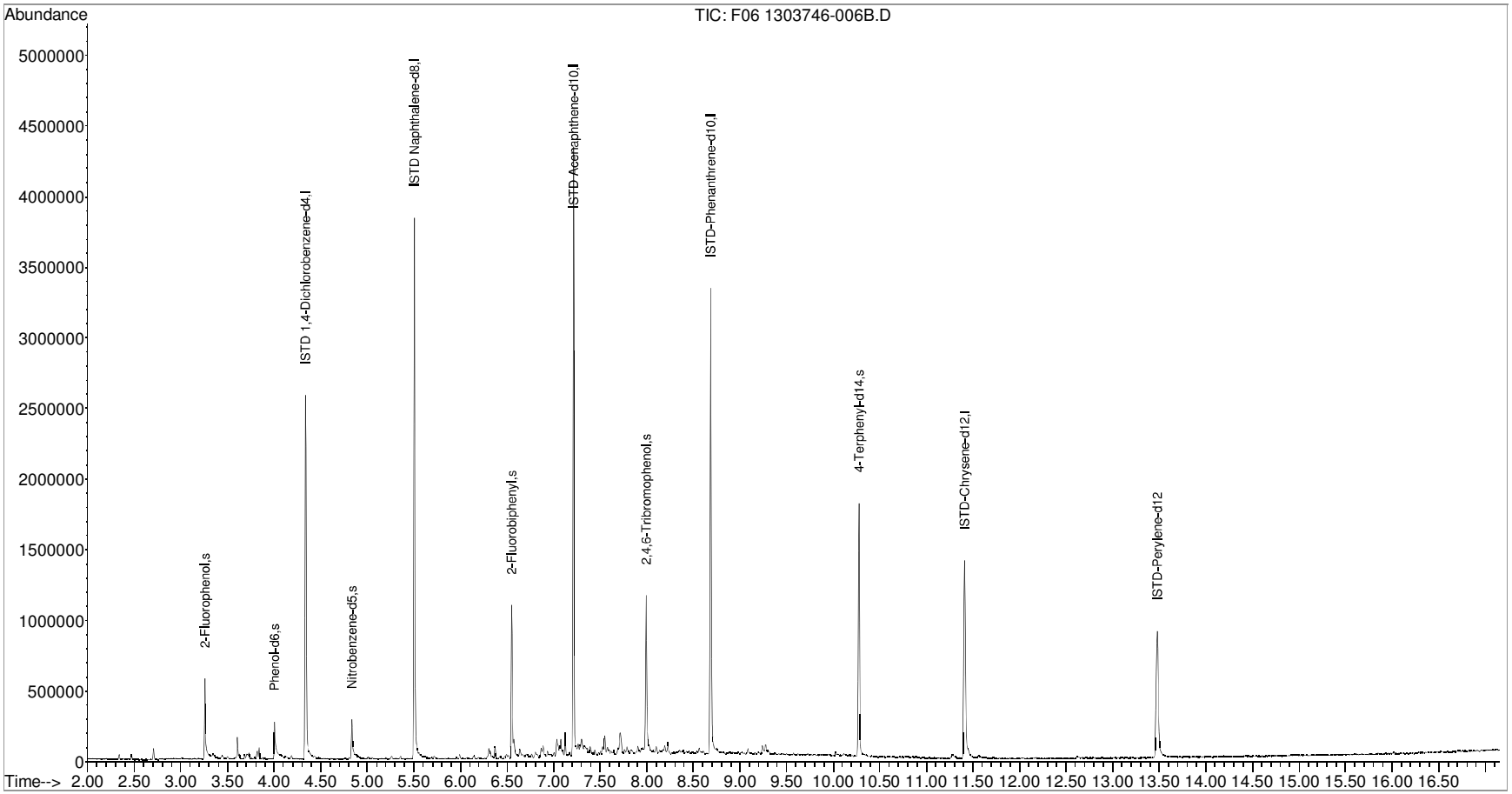
Quant Time: Mar 30 06:56:57 2013
Quant Method : C:\MSDCHEM\1\METHODS\QUANTFULLSV 03-19-13.M
Quant Title : Semi-Volatile Compounds HP-GCMS 5973-B
QLast Update : Fri Mar 29 07:52:23 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : Z:\MSDCHEM\1\DATA\MAR 13\29MAR13-A\
Data File : F06 1303746-006B.D
Acq On : 30 Mar 2013 2:01 am
Operator : ALICIA HABERLE
Sample : 1303746-006B
Misc : SAMP
ALS Vial : 39 Sample Multiplier: 1

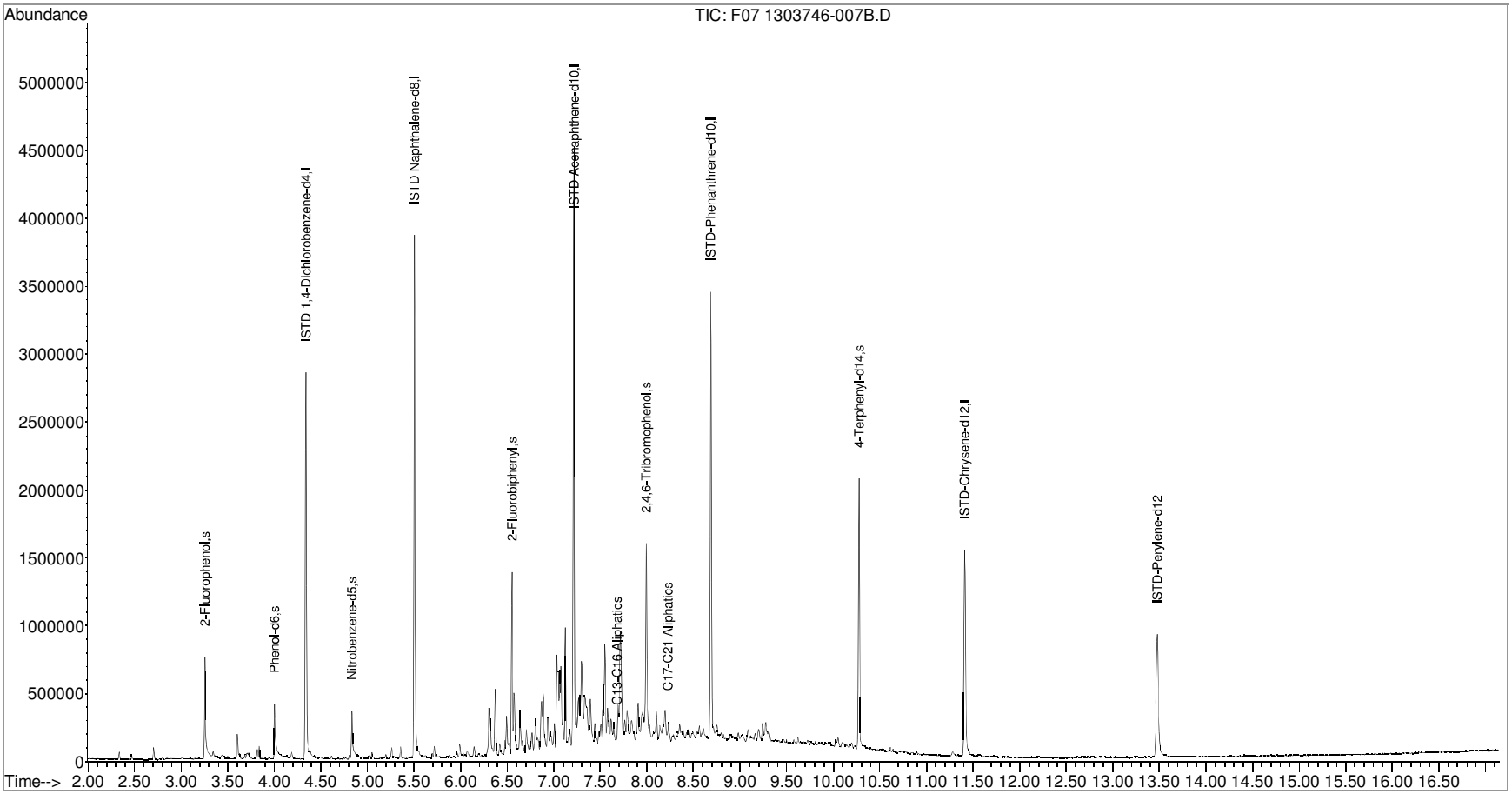
Quant Time: Mar 30 06:57:17 2013
Quant Method : C:\MSDCHEM\1\METHODS\QUANTFULLSV 03-19-13.M
Quant Title : Semi-Volatile Compounds HP-GCMS 5973-B
QLast Update : Fri Mar 29 07:52:23 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : Z:\MSDCHEM\1\DATA\MAR 13\29MAR13-A\
Data File : F07 1303746-007B.D
Acq On : 30 Mar 2013 2:28 am
Operator : ALICIA HABERLE
Sample : 1303746-007B
Misc : SAMP
ALS Vial : 40 Sample Multiplier: 1

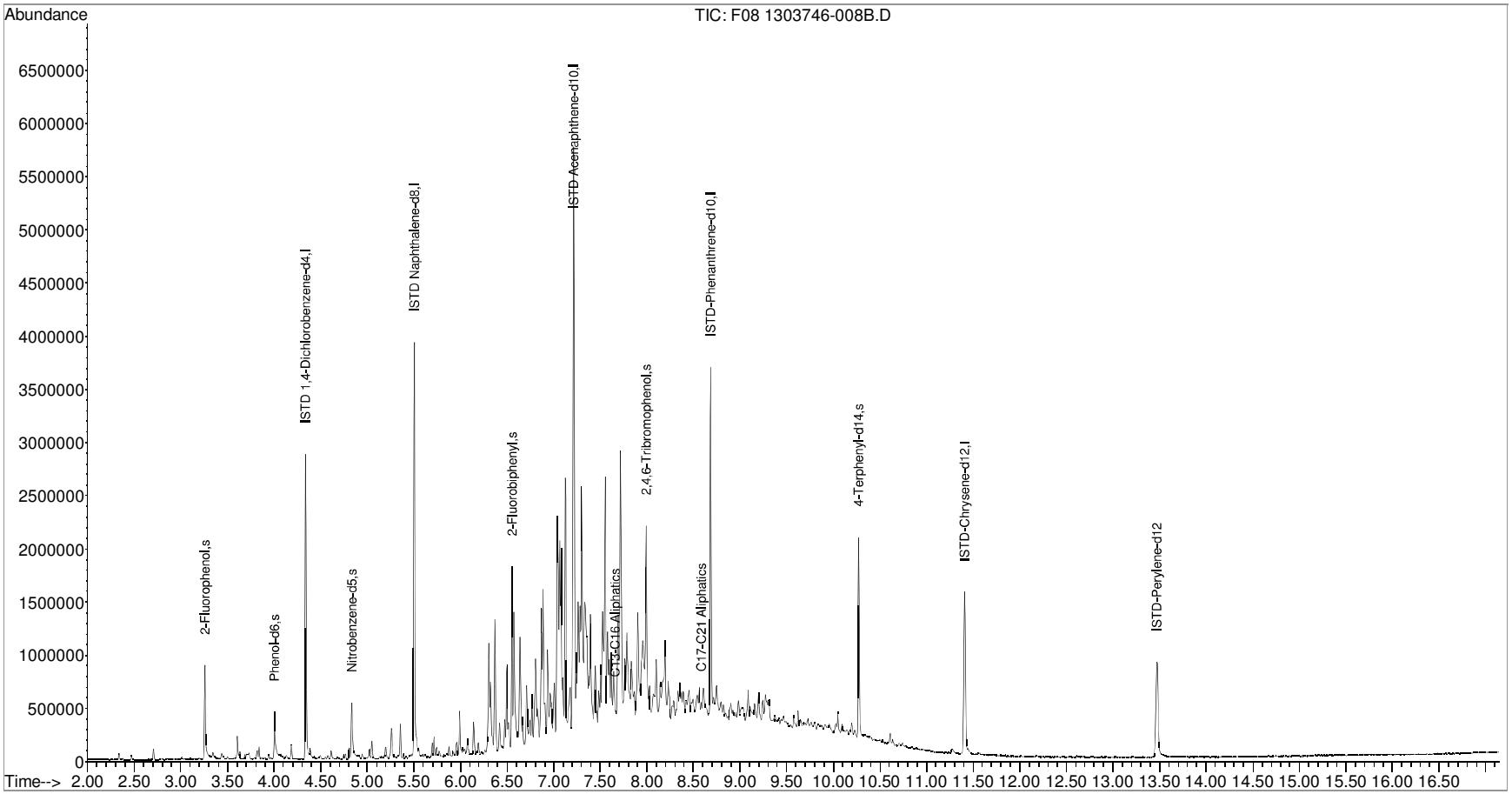
Quant Time: Mar 30 06:57:53 2013
Quant Method : C:\MSDCHEM\1\METHODS\QUANTFULLSV 03-19-13.M
Quant Title : Semi-Volatile Compounds HP-GCMS 5973-B
QLast Update : Fri Mar 29 07:52:23 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : Z:\MSDCHEM\1\DATA\MAR 13\29MAR13-A\
Data File : F08 1303746-008B.D
Acq On : 30 Mar 2013 2:54 am
Operator : ALICIA HABERLE
Sample : 1303746-008B
Misc : SAMP
ALS Vial : 41 Sample Multiplier: 1

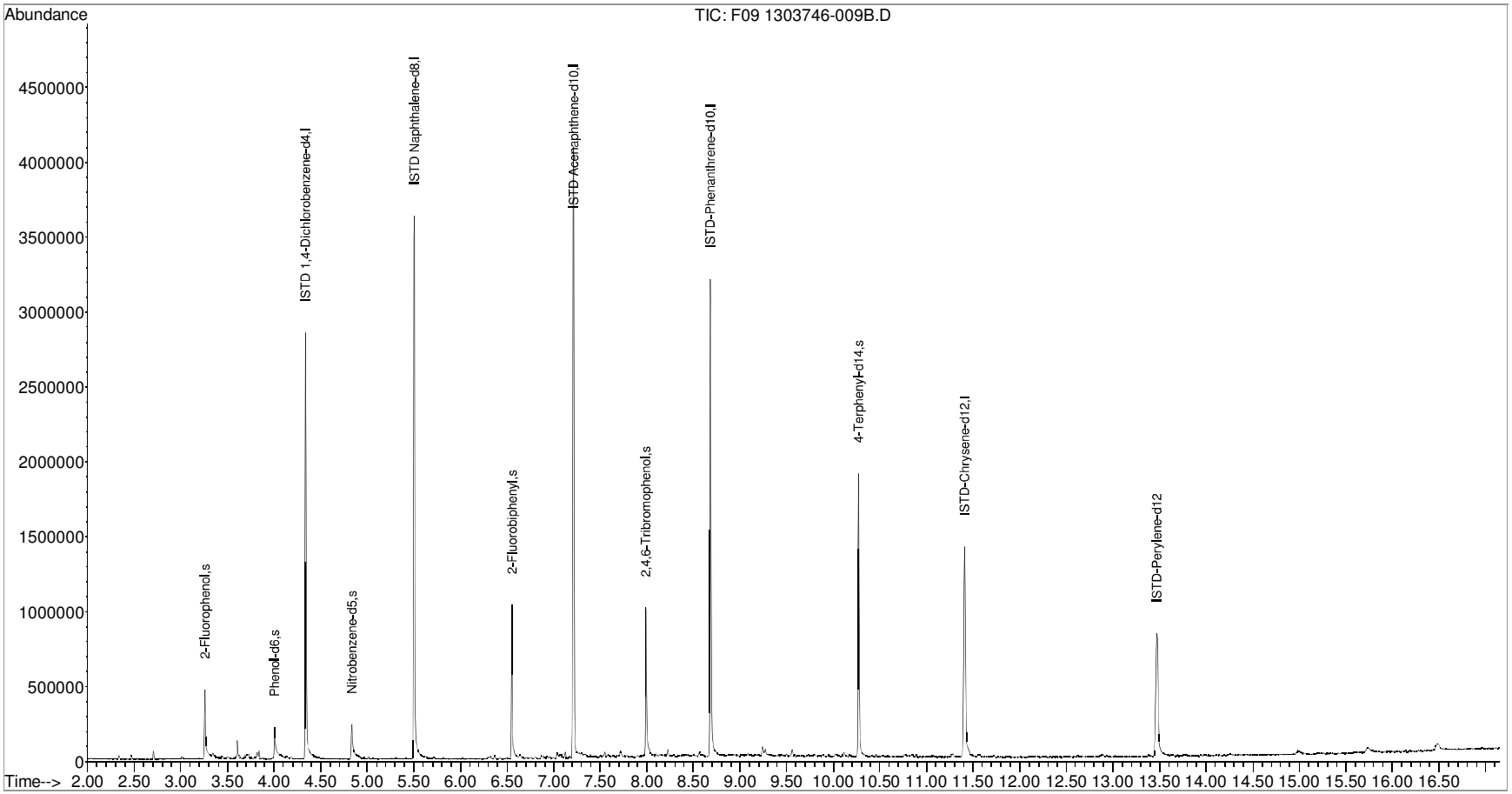
Quant Time: Mar 30 06:58:29 2013
Quant Method : C:\MSDCHEM\1\METHODS\QUANTFULLSV 03-19-13.M
Quant Title : Semi-Volatile Compounds HP-GCMS 5973-B
QLast Update : Fri Mar 29 07:52:23 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : Z:\MSDCHEM\1\DATA\MAR 13\29MAR13-A\
Data File : F09 1303746-009B.D
Acq On : 30 Mar 2013 3:21 am
Operator : ALICIA HABERLE
Sample : 1303746-009B
Misc : SAMP
ALS Vial : 42 Sample Multiplier: 1

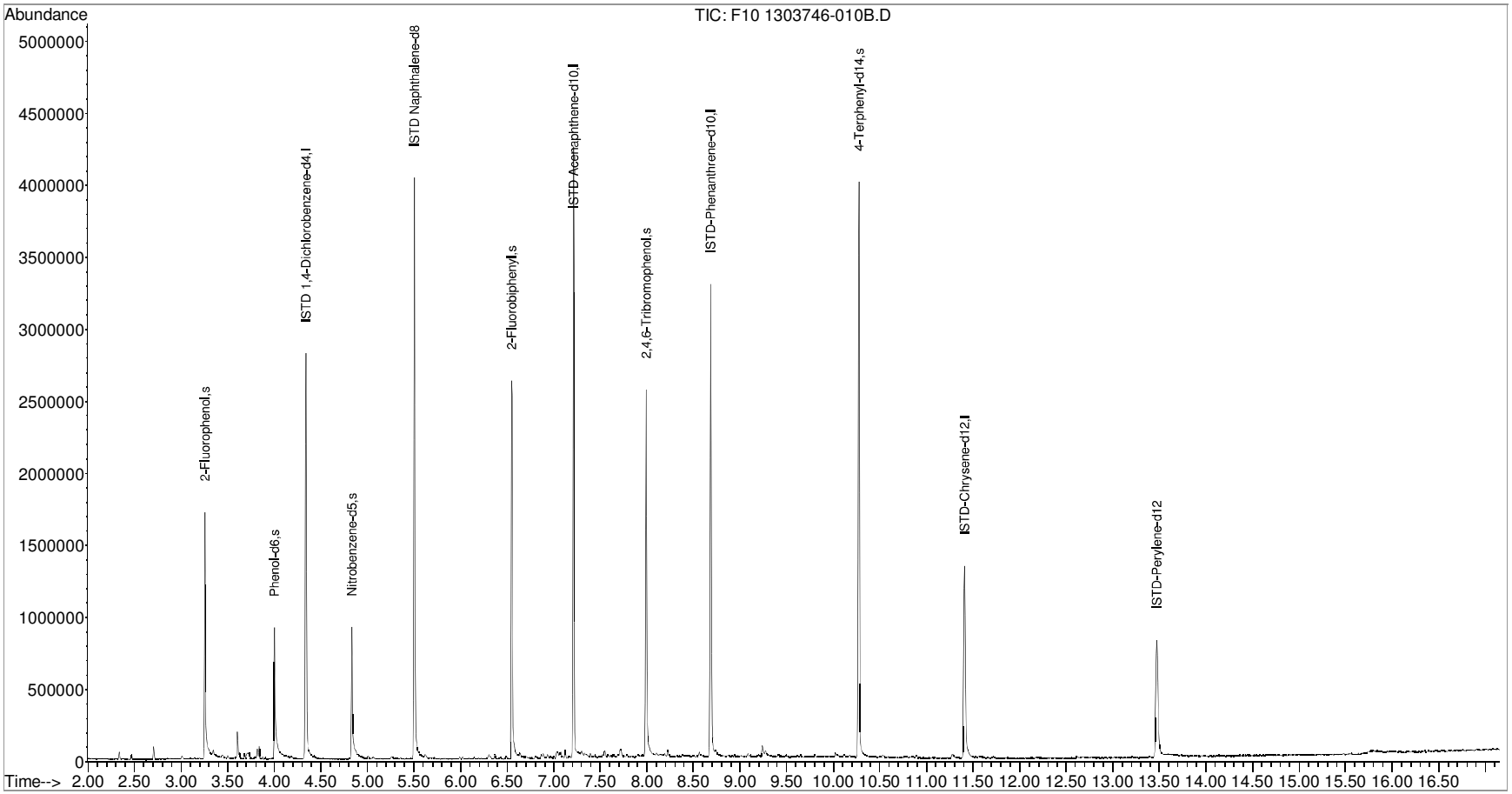
Quant Time: Mar 30 06:58:50 2013
Quant Method : C:\MSDCHEM\1\METHODS\QUANTFULLSV 03-19-13.M
Quant Title : Semi-Volatile Compounds HP-GCMS 5973-B
QLast Update : Fri Mar 29 07:52:23 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : Z:\MSDCHEM\1\DATA\MAR 13\29MAR13-A\
Data File : F10 1303746-010B.D
Acq On : 30 Mar 2013 3:47 am
Operator : ALICIA HABERLE
Sample : 1303746-010B
Misc : SAMP
ALS Vial : 43 Sample Multiplier: 1

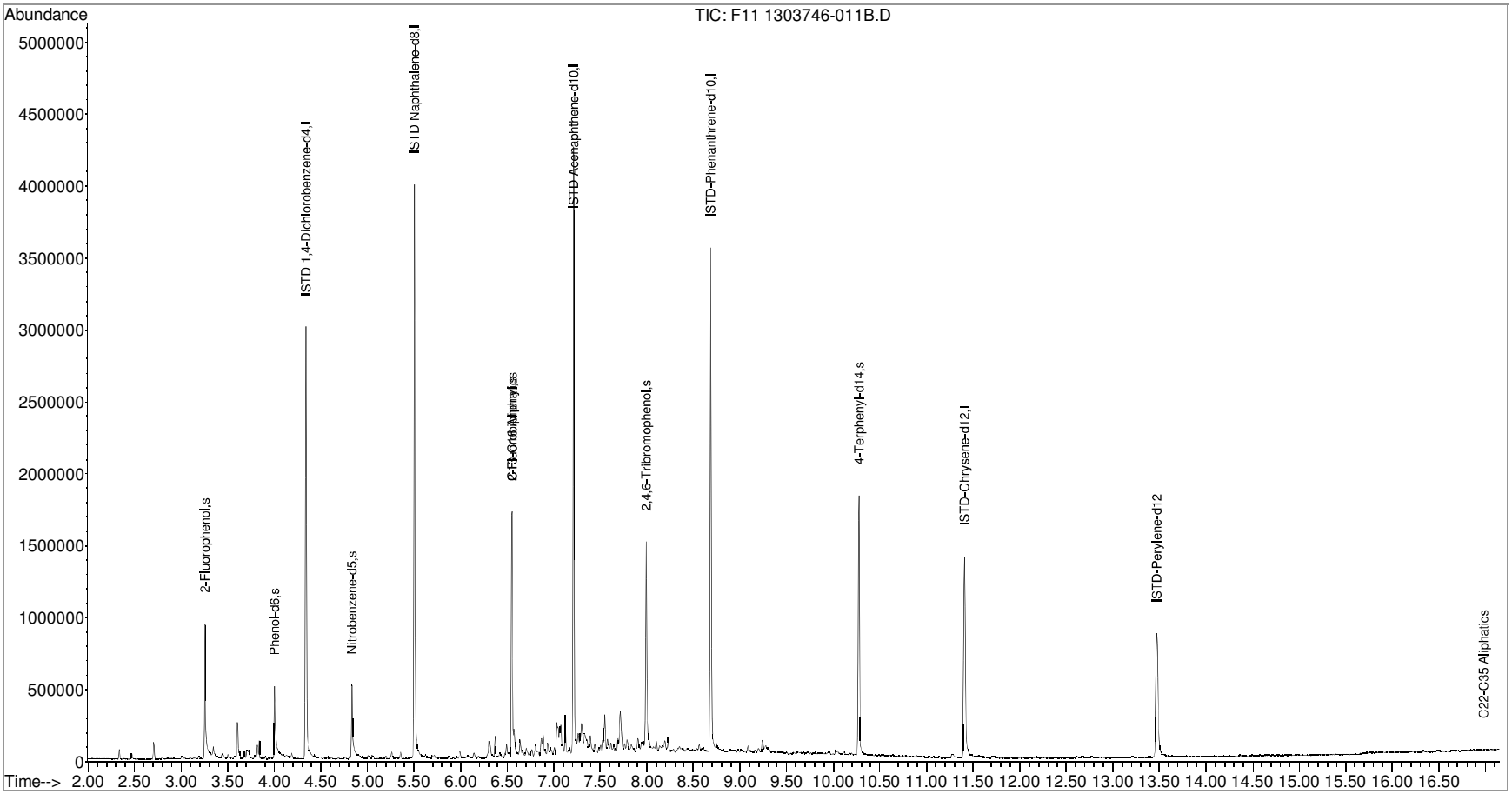
Quant Time: Mar 30 06:59:10 2013
Quant Method : C:\MSDCHEM\1\METHODS\QUANTFULLSV 03-19-13.M
Quant Title : Semi-Volatile Compounds HP-GCMS 5973-B
QLast Update : Fri Mar 29 07:52:23 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : Z:\MSDCHEM\1\DATA\MAR 13\29MAR13-A\
Data File : F11 1303746-011B.D
Acq On : 30 Mar 2013 4:14 am
Operator : ALICIA HABERLE
Sample : 1303746-011B
Misc : SAMP
ALS Vial : 44 Sample Multiplier: 1

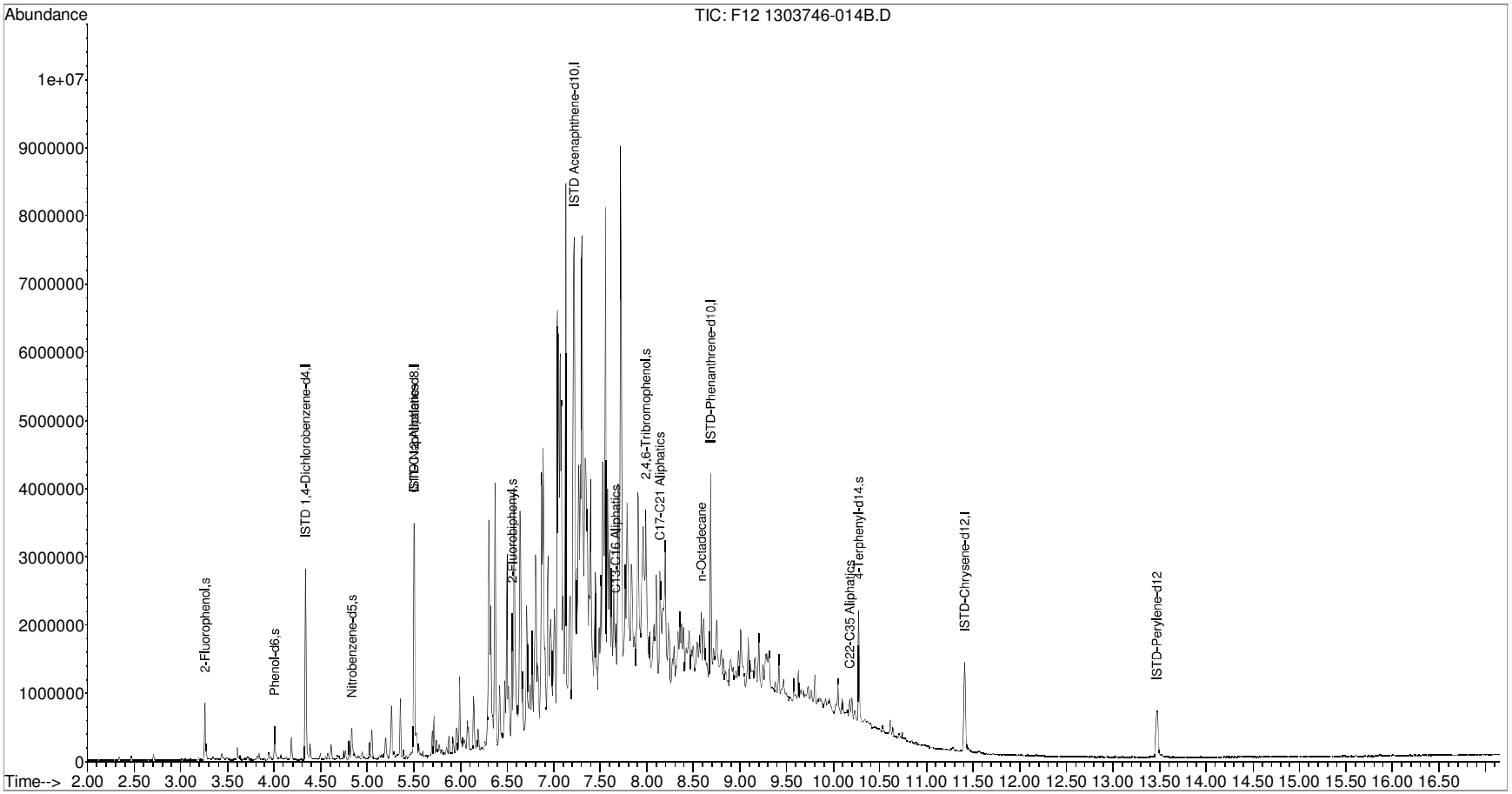
Quant Time: Mar 30 06:59:55 2013
Quant Method : C:\MSDCHEM\1\METHODS\QUANTFULLSV 03-19-13.M
Quant Title : Semi-Volatile Compounds HP-GCMS 5973-B
QLast Update : Fri Mar 29 07:52:23 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : Z:\MSDCHEM\1\DATA\MAR 13\29MAR13-A\
Data File : F12 1303746-014B.D
Acq On : 30 Mar 2013 4:40 am
Operator : ALICIA HABERLE
Sample : 1303746-014B
Misc : SAMP
ALS Vial : 45 Sample Multiplier: 1

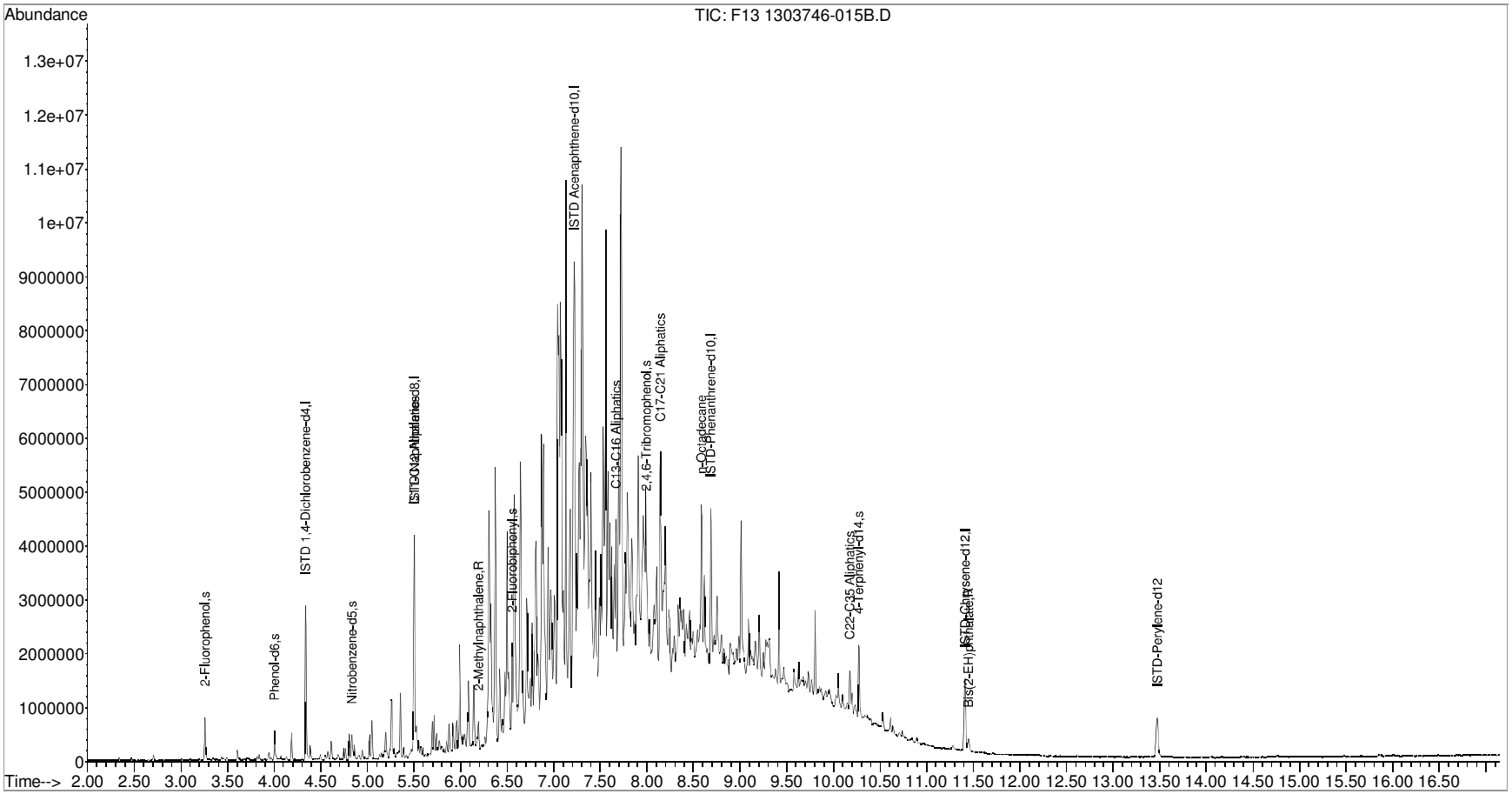
Quant Time: Mar 30 07:00:51 2013
Quant Method : C:\MSDCHEM\1\METHODS\QUANTFULLSV 03-19-13.M
Quant Title : Semi-Volatile Compounds HP-GCMS 5973-B
QLast Update : Fri Mar 29 07:52:23 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : Z:\MSDCHEM\1\DATA\MAR 13\29MAR13-A\
Data File : F13 1303746-015B.D
Acq On : 30 Mar 2013 5:07 am
Operator : ALICIA HABERLE
Sample : 1303746-015B
Misc : SAMP
ALS Vial : 46 Sample Multiplier: 1

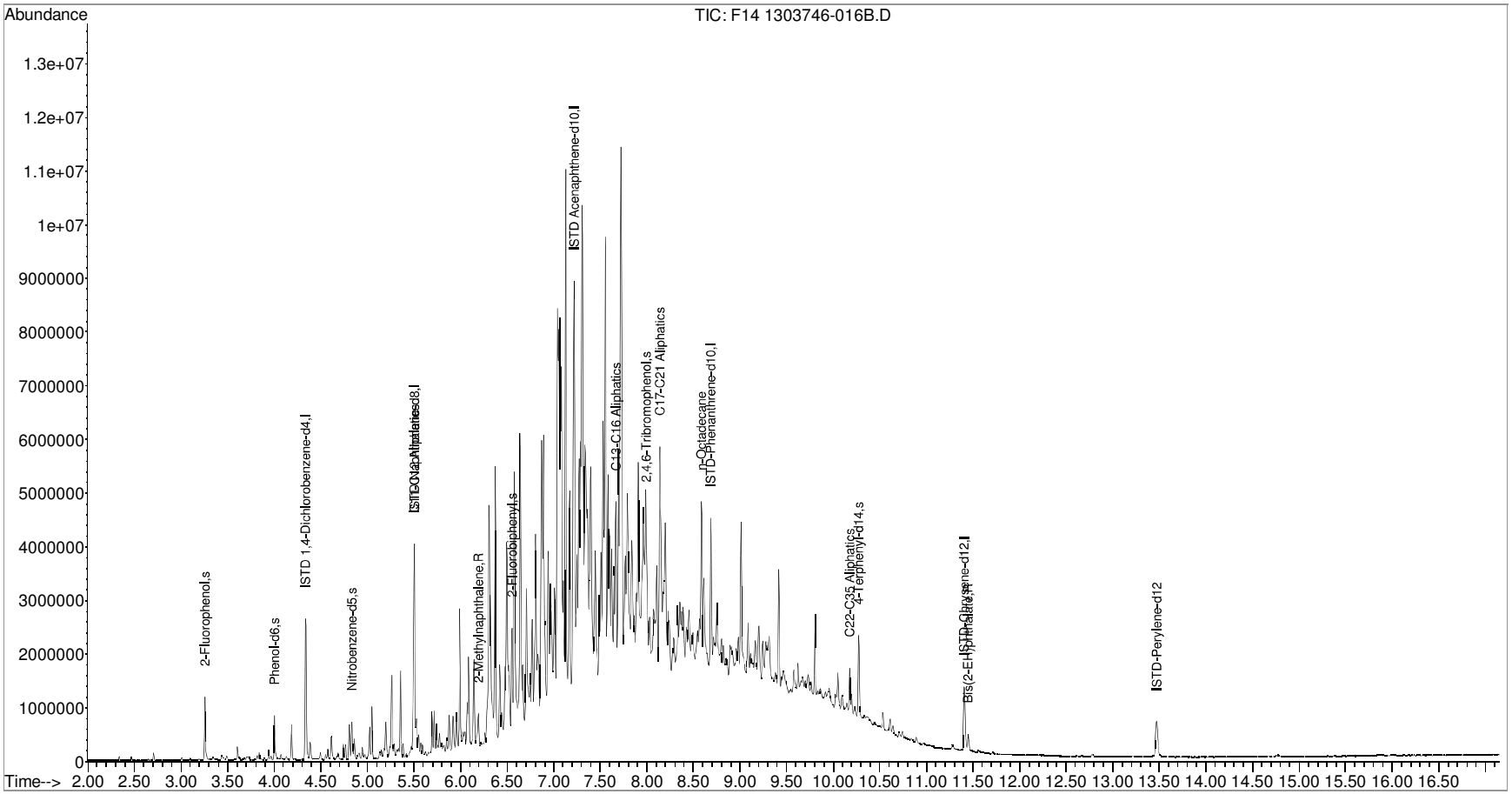
Quant Time: Mar 30 07:02:02 2013
Quant Method : C:\MSDCHEM\1\METHODS\QUANTFULLSV 03-19-13.M
Quant Title : Semi-Volatile Compounds HP-GCMS 5973-B
QLast Update : Fri Mar 29 07:52:23 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : Z:\MSDCHEM\1\DATA\MAR 13\29MAR13-A\
Data File : F14 1303746-016B.D
Acq On : 30 Mar 2013 5:33 am
Operator : ALICIA HABERLE
Sample : 1303746-016B
Misc : SAMP
ALS Vial : 47 Sample Multiplier: 1

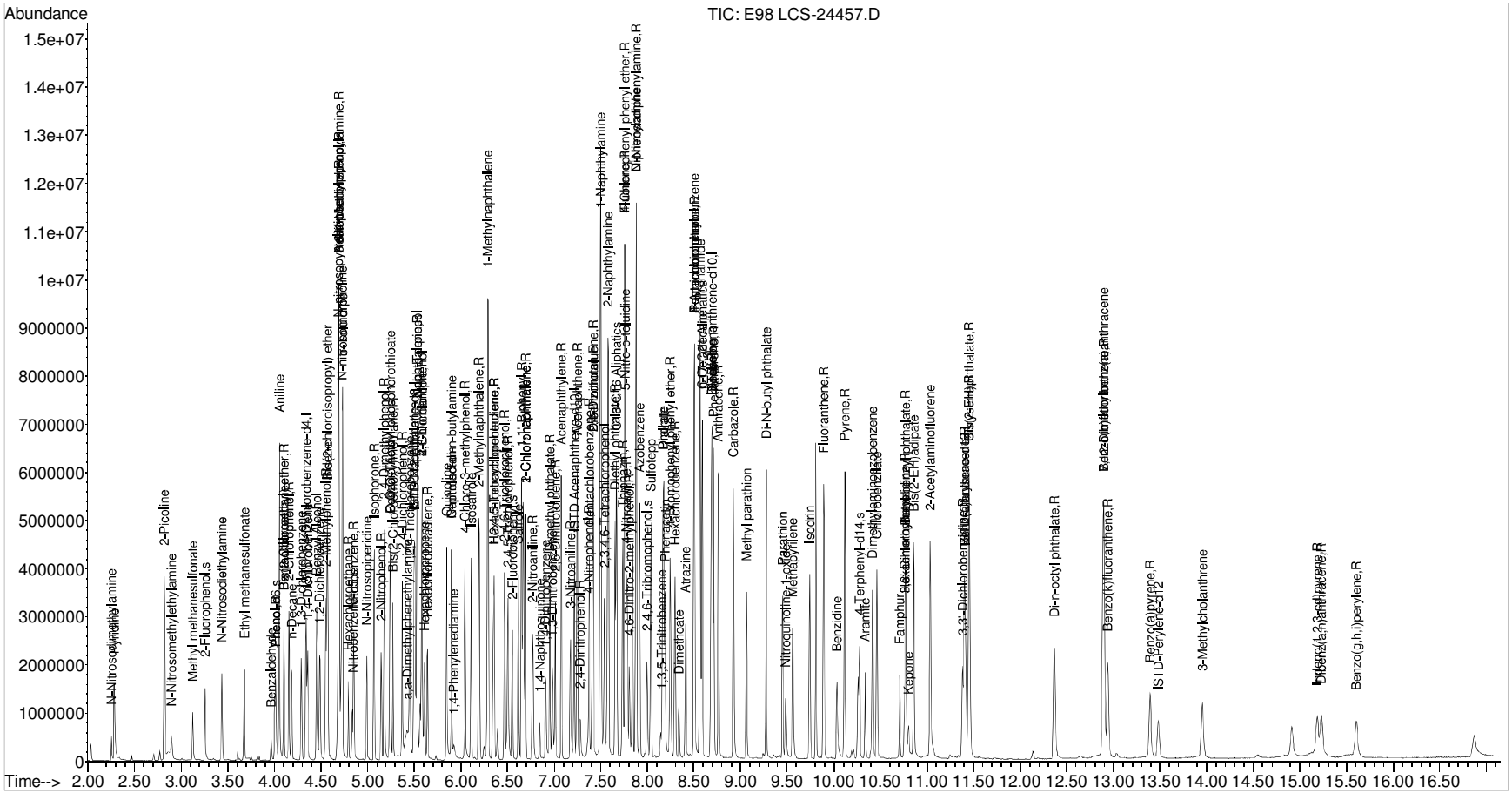
Quant Time: Mar 30 07:03:09 2013
Quant Method : C:\MSDCHEM\1\METHODS\QUANTFULLSV 03-19-13.M
Quant Title : Semi-Volatile Compounds HP-GCMS 5973-B
QLast Update : Fri Mar 29 07:52:23 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : Z:\MSDCHEM\1\DATA\MAR 13\29MAR13-A\
Data File : E98 LCS-24457.D
Acq On : 29 Mar 2013 10:27 pm
Operator : ALICIA HABERLE
Sample : LCS-24457
Misc : LCS
ALS Vial : 31 Sample Multiplier: 1

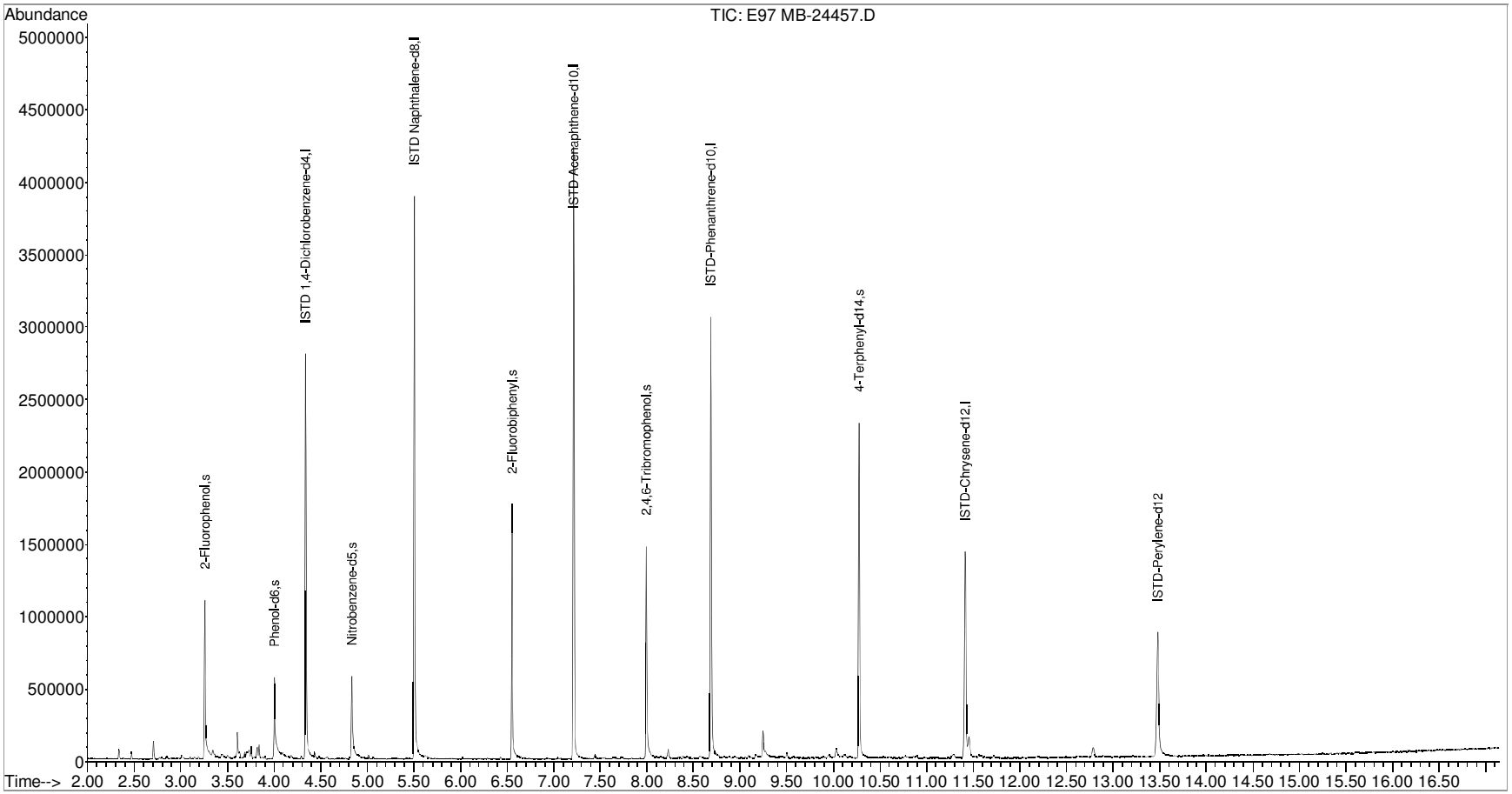
Quant Time: Mar 30 06:53:47 2013
Quant Method : C:\MSDCHEM\1\METHODS\QUANTFULLSV 03-19-13.M
Quant Title : Semi-Volatile Compounds HP-GCMS 5973-B
QLast Update : Fri Mar 29 07:52:23 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : Z:\MSDCHEM\1\DATA\MAR 13\29MAR13-A\
Data File : E97 MB-24457.D
Acq On : 29 Mar 2013 10:00 pm
Operator : ALICIA HABERLE
Sample : MB-24457
Misc : MBLK
ALS Vial : 30 Sample Multiplier: 1

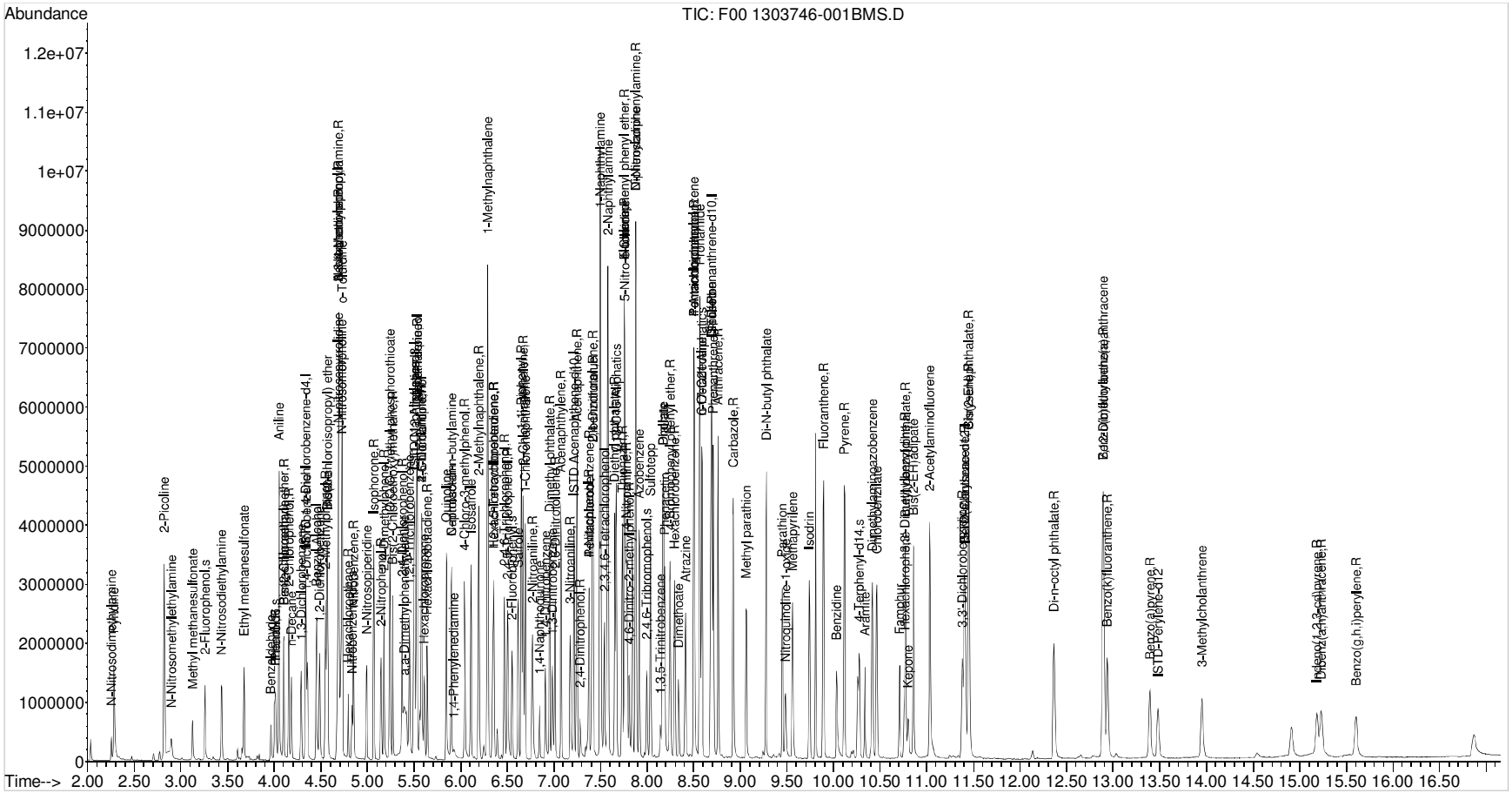
Quant Time: Mar 30 06:53:21 2013
Quant Method : C:\MSDCHEM\1\METHODS\QUANTFULLSV 03-19-13.M
Quant Title : Semi-Volatile Compounds HP-GCMS 5973-B
QLast Update : Fri Mar 29 07:52:23 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : Z:\MSDCHEM\1\DATA\MAR 13\29MAR13-A\
Data File : F00 1303746-001BMS.D
Acq On : 29 Mar 2013 11:21 pm
Operator : ALICIA HABERLE
Sample : 1303746-001BMS
Misc : MS
ALS Vial : 33 Sample Multiplier: 1

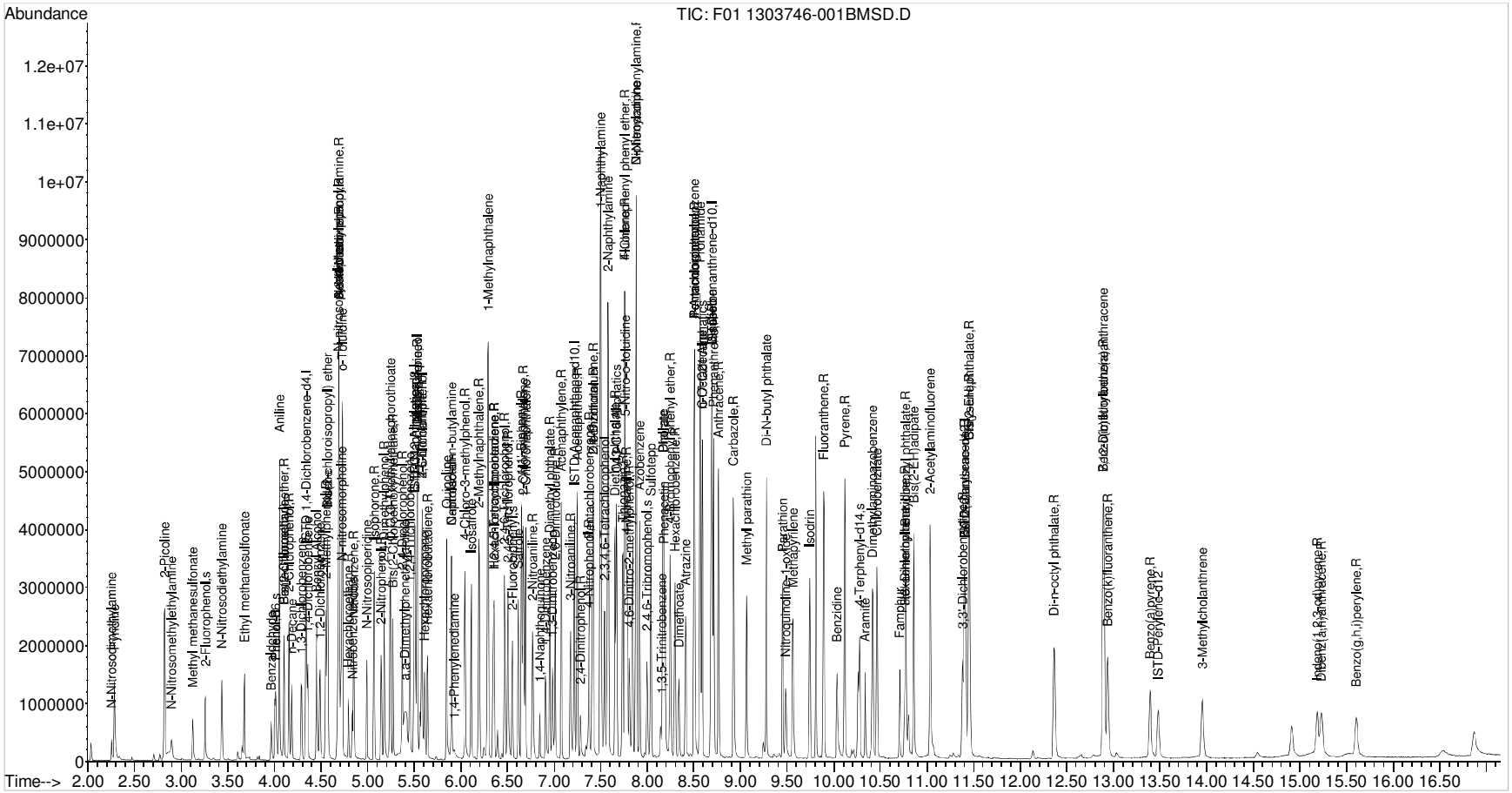
Quant Time: Mar 30 06:54:59 2013
Quant Method : C:\MSDCHEM\1\METHODS\QUANTFULLSV 03-19-13.M
Quant Title : Semi-Volatile Compounds HP-GCMS 5973-B
QLast Update : Fri Mar 29 07:52:23 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : Z:\MSDCHEM\1\DATA\MAR 13\29MAR13-A\
Data File : F01 1303746-001BMSD.D
Acq On : 29 Mar 2013 11:48 pm
Operator : ALICIA HABERLE
Sample : 1303746-001BMSD
Misc : MSD
ALS Vial : 34 Sample Multiplier: 1

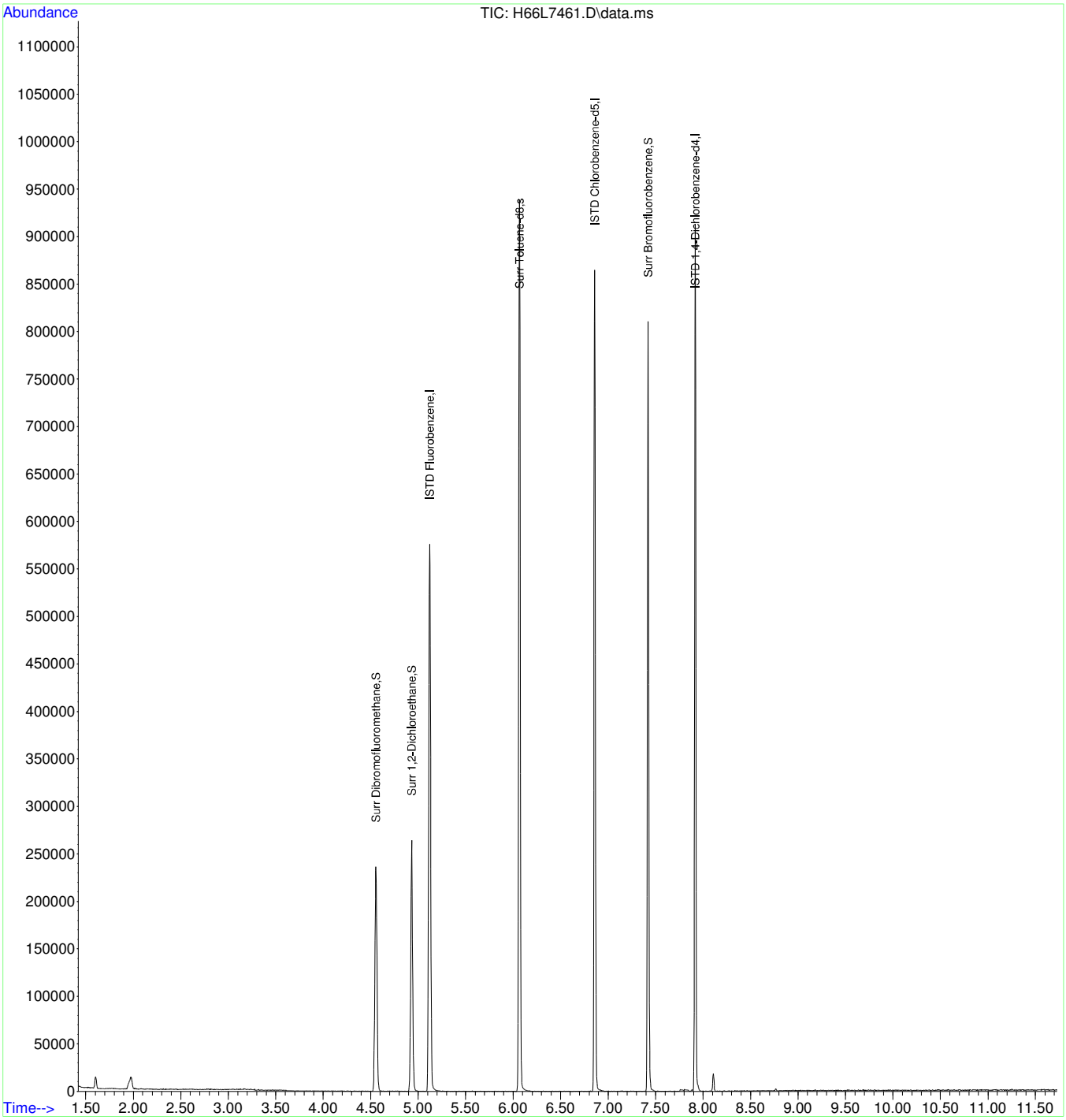
Quant Time: Mar 30 06:55:27 2013
Quant Method : C:\MSDCHEM\1\METHODS\QUANTFULLSV 03-19-13.M
Quant Title : Semi-Volatile Compounds HP-GCMS 5973-B
QLast Update : Fri Mar 29 07:52:23 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\MAR13-D\28MAR13\
Data File : H66L7461.D
Acq On : 28 Mar 2013 5:12 pm
Operator : AAP
Sample : 1303746-001A
Misc : SAMP 5.0ML 1OF3 SB
ALS Vial : 16 Sample Multiplier: 1

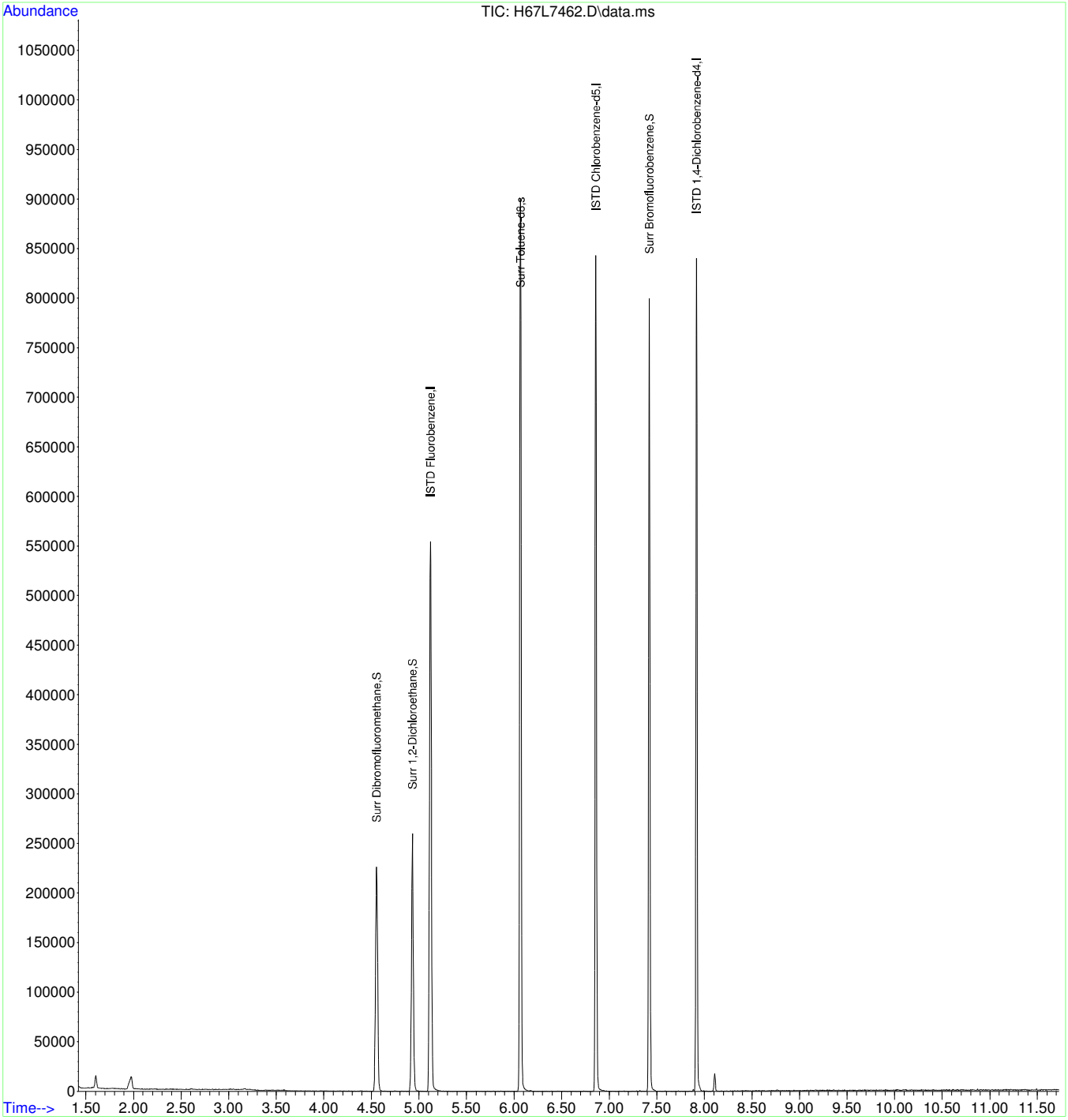
Quant Time: Mar 28 17:24:47 2013
Quant Method : C:\MSDCHEM\1\METHODS\DFULLW_15.M
Quant Title : VOA Calibration
QLast Update : Thu Mar 28 16:15:10 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\MAR13-D\28MAR13\
Data File : H67L7462.D
Acq On : 28 Mar 2013 5:30 pm
Operator : AAP
Sample : 1303746-002A
Misc : SAMP 5.0ML 1OF3 SB
ALS Vial : 17 Sample Multiplier: 1

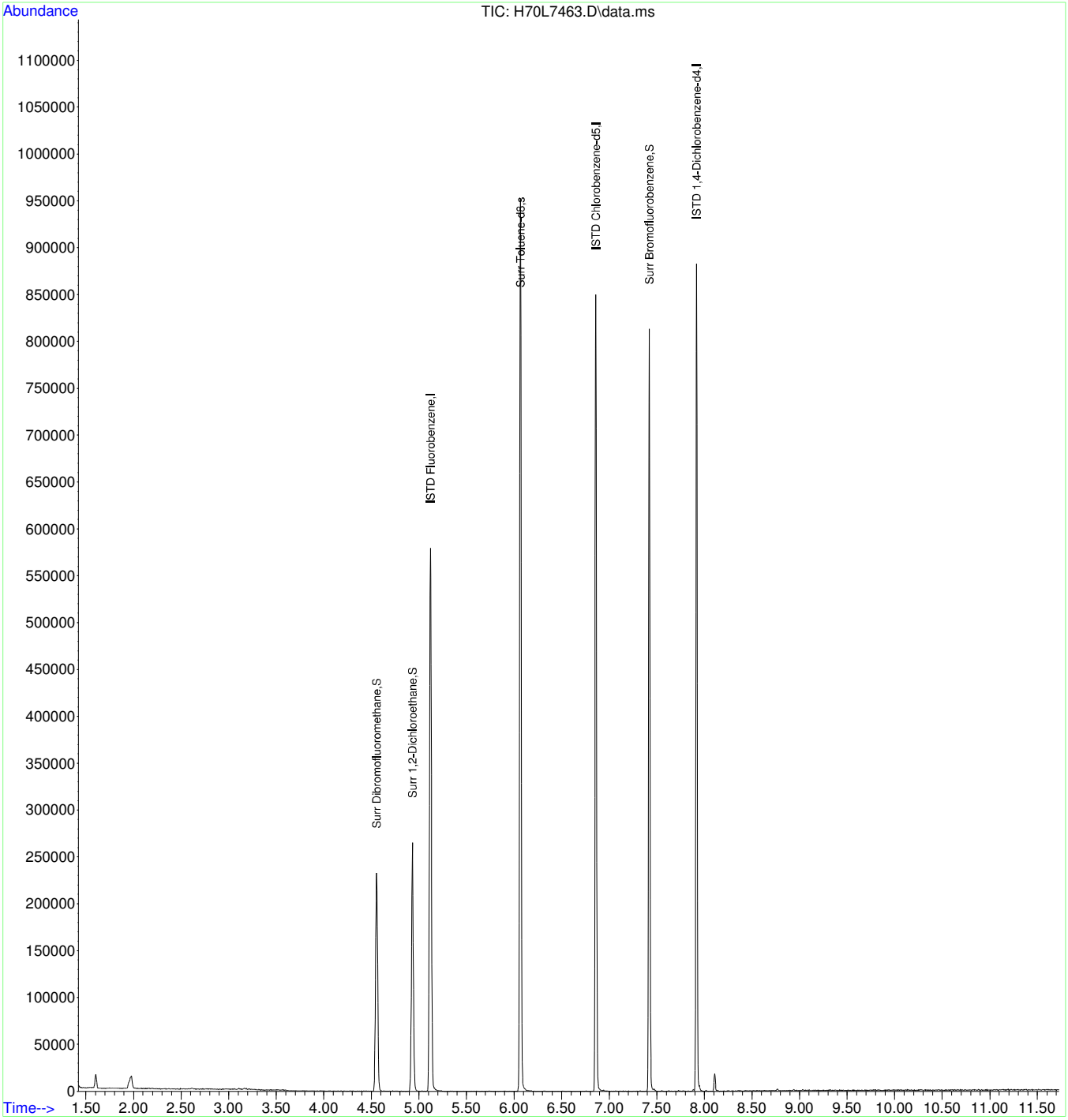
Quant Time: Mar 29 09:31:21 2013
Quant Method : C:\MSDCHEM\1\METHODS\DFULLW_15.M
Quant Title : VOA Calibration
QLast Update : Thu Mar 28 16:15:10 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\MAR13-D\28MAR13\
Data File : H70L7463.D
Acq On : 28 Mar 2013 6:27 pm
Operator : AAP
Sample : 1303746-003A
Misc : SAMP 5.0ML 1OF3 SB
ALS Vial : 20 Sample Multiplier: 1

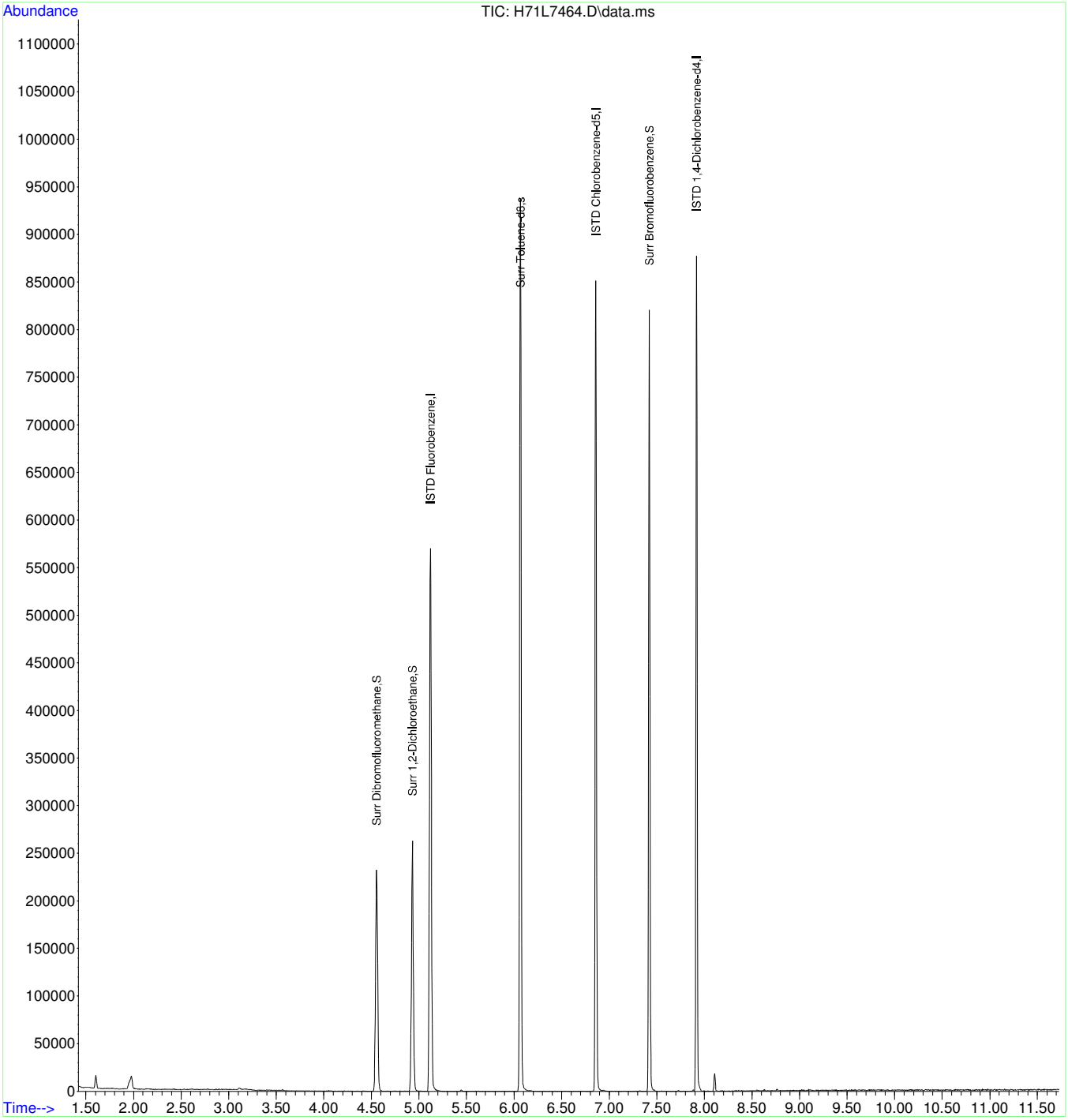
Quant Time: Mar 29 09:31:51 2013
Quant Method : C:\MSDCHEM\1\METHODS\DFULLW_15.M
Quant Title : VOA Calibration
QLast Update : Thu Mar 28 16:15:10 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\MAR13-D\28MAR13\
Data File : H71L7464.D
Acq On : 28 Mar 2013 6:46 pm
Operator : AAP
Sample : 1303746-004A
Misc : SAMP 5.0ML 1OF3 SB
ALS Vial : 21 Sample Multiplier: 1

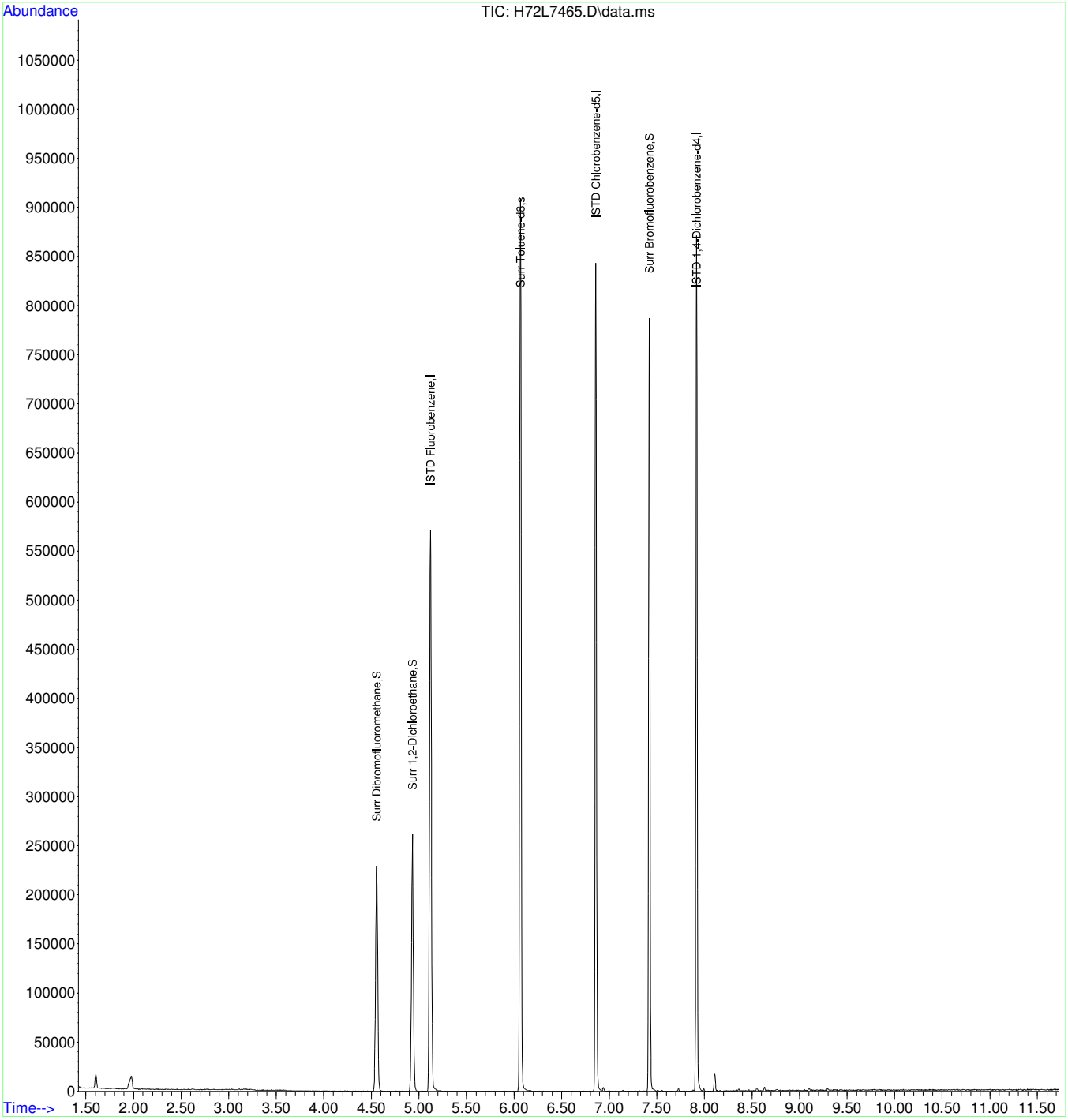
Quant Time: Mar 29 09:32:12 2013
Quant Method : C:\MSDCHEM\1\METHODS\DFULLW_15.M
Quant Title : VOA Calibration
QLast Update : Thu Mar 28 16:15:10 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\MAR13-D\28MAR13\
Data File : H72L7465.D
Acq On : 28 Mar 2013 7:05 pm
Operator : AAP
Sample : 1303746-005A
Misc : SAMP 5.0ML 1OF3 SB
ALS Vial : 22 Sample Multiplier: 1

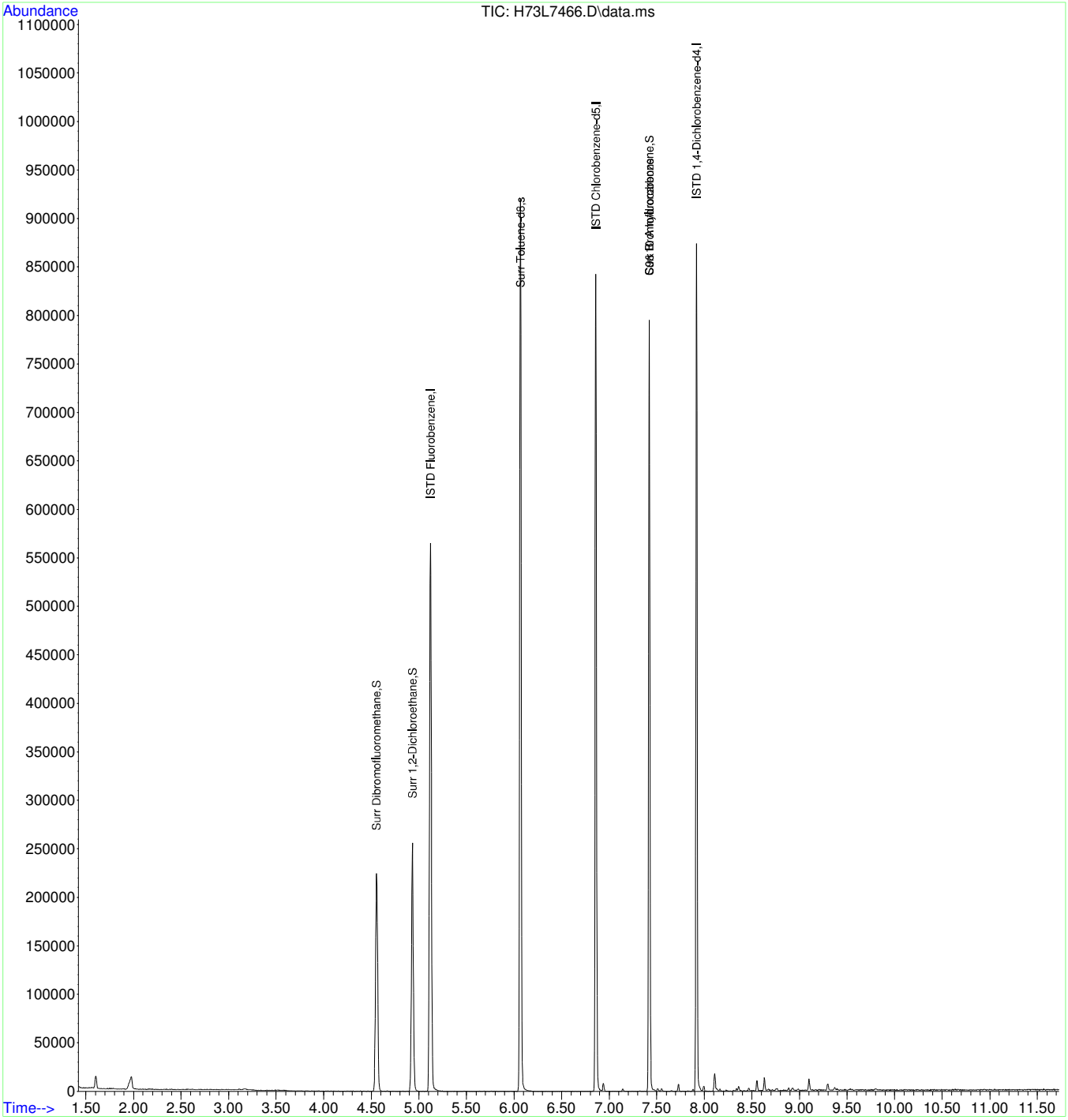
Quant Time: Mar 29 09:32:32 2013
Quant Method : C:\MSDCHEM\1\METHODS\DFULLW_15.M
Quant Title : VOA Calibration
QLast Update : Thu Mar 28 16:15:10 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

```
Data Path : C:\msdchem\1\data\MAR13-D\28MAR13\
Data File : H73L7466.D
Acq On    : 28 Mar 2013   7:24 pm
Operator  : AAP
Sample    : 1303746-006A
Misc      : SAMP       5.0ML   1OF3   SB
ALS Vial  : 23   Sample Multiplier: 1

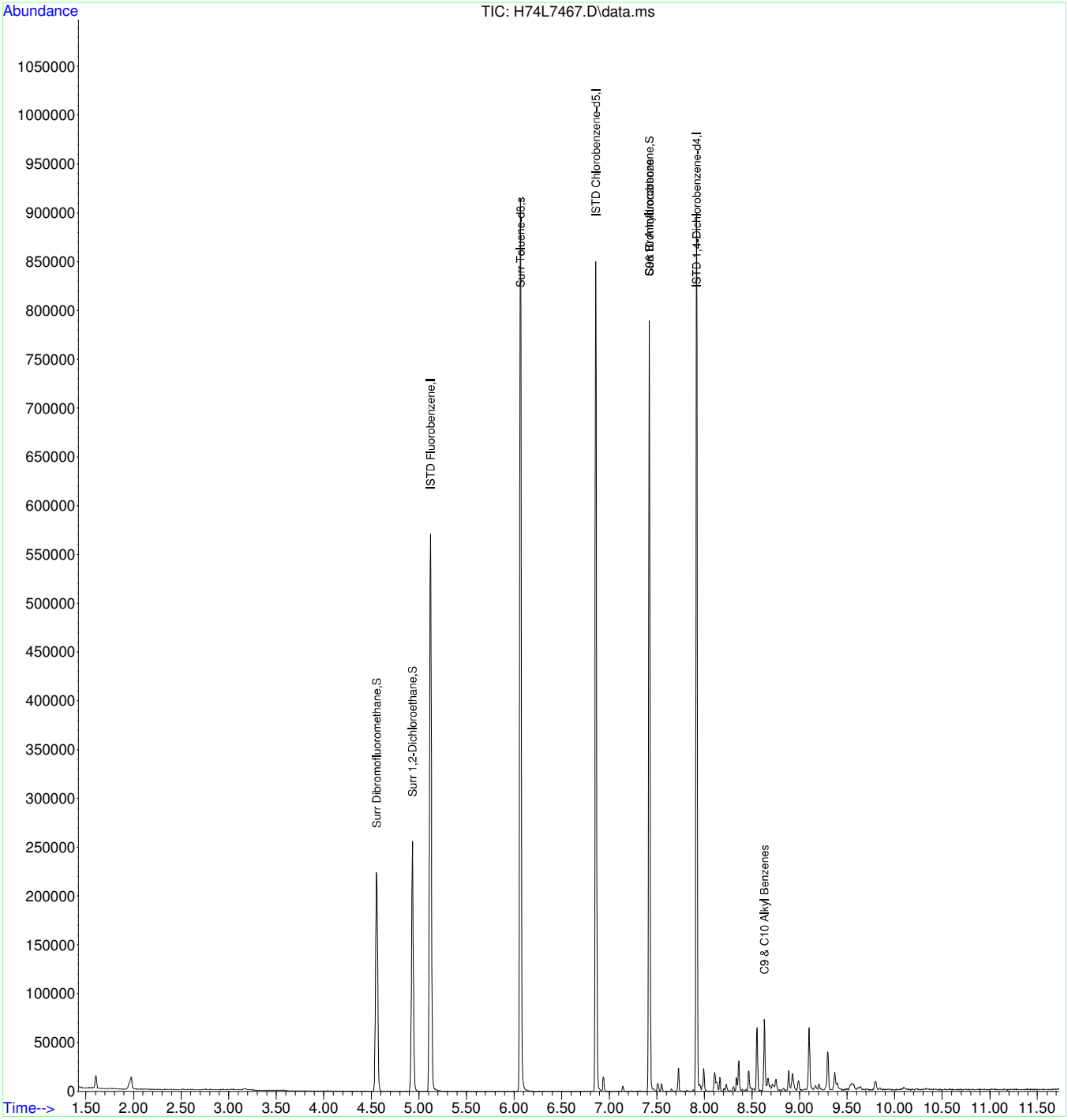
Quant Time: Mar 29 09:33:38 2013
Quant Method : C:\MSDCHEM\1\METHODS\DFULLW_15.M
Quant Title  : VOA  Calibration
QLast Update : Thu Mar 28 16:15:10 2013
Response via : Initial Calibration
```



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\MAR13-D\28MAR13\
Data File : H74L7467.D
Acq On : 28 Mar 2013 7:43 pm
Operator : AAP
Sample : 1303746-007A
Misc : SAMP 5.0ML 1OF3 SB
ALS Vial : 24 Sample Multiplier: 1

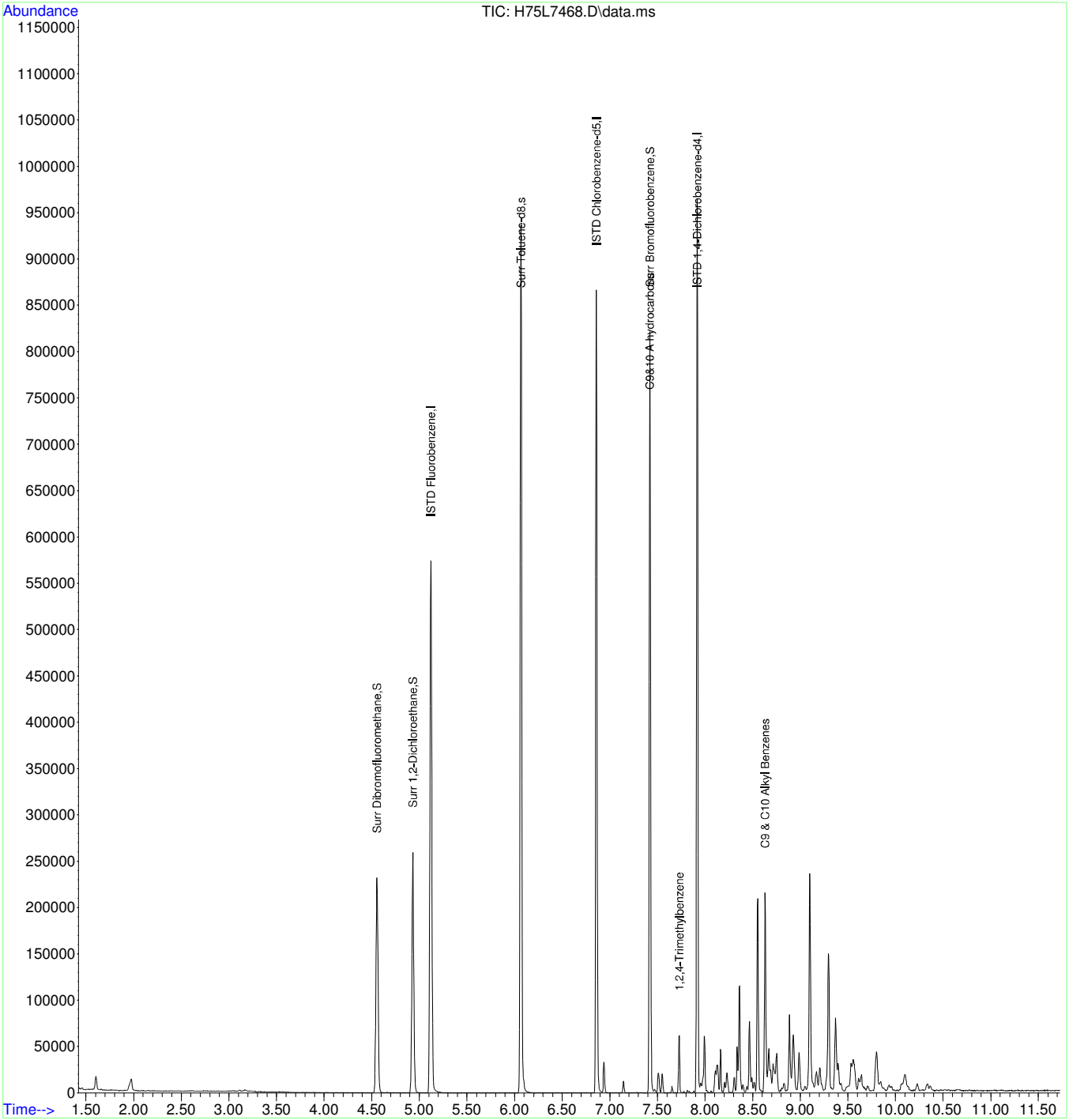
Quant Time: Mar 29 09:34:25 2013
Quant Method : C:\MSDCHEM\1\METHODS\DFULLW_15.M
Quant Title : VOA Calibration
QLast Update : Thu Mar 28 16:15:10 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\MAR13-D\28MAR13\
Data File : H75L7468.D
Acq On : 28 Mar 2013 8:02 pm
Operator : AAP
Sample : 1303746-008A
Misc : SAMP 5.0ML 1OF3 SB
ALS Vial : 25 Sample Multiplier: 1

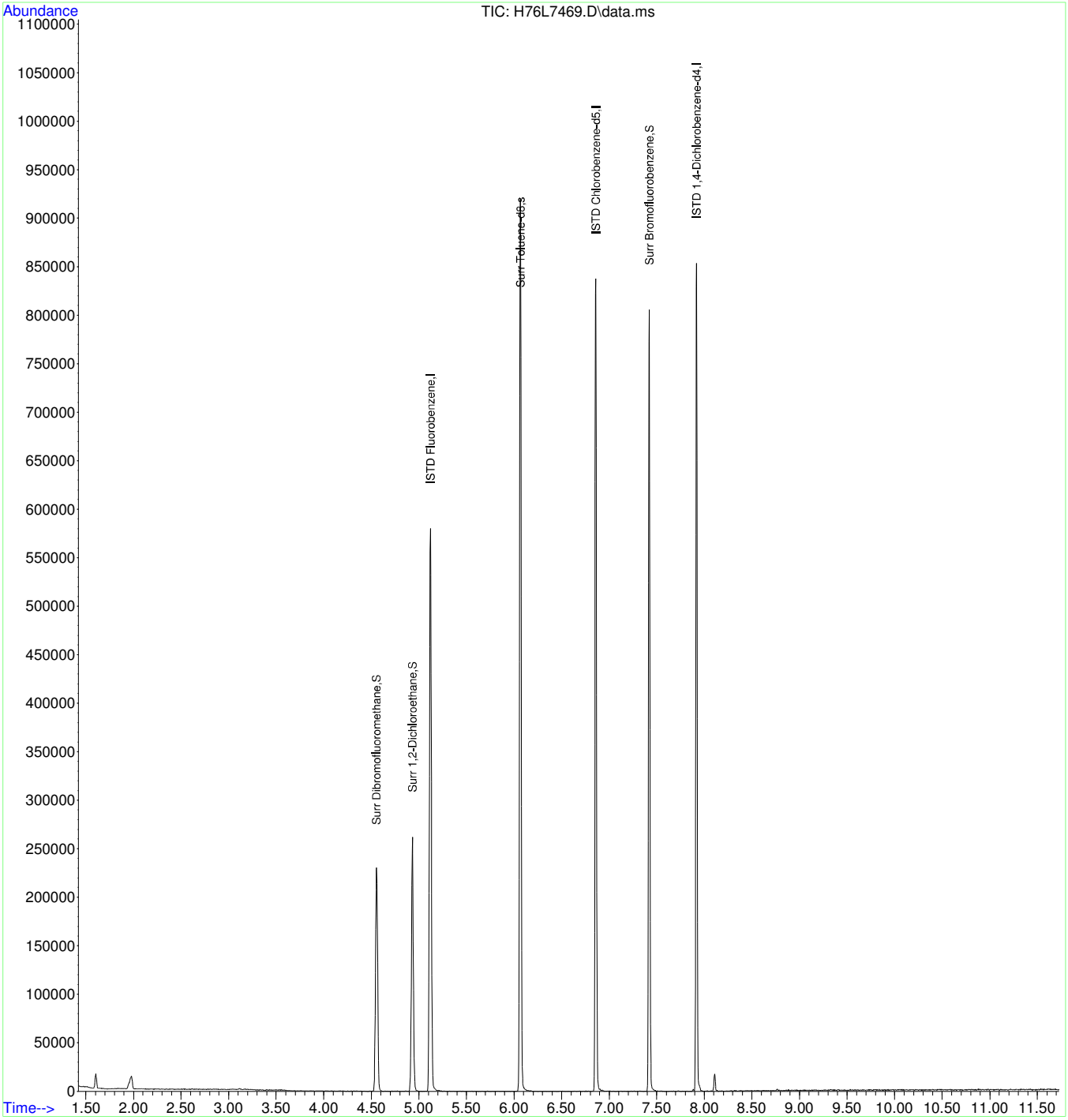
Quant Time: Mar 29 09:36:28 2013
Quant Method : C:\MSDCHEM\1\METHODS\DFULLW_15.M
Quant Title : VOA Calibration
QLast Update : Thu Mar 28 16:15:10 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\MAR13-D\28MAR13\
Data File : H76L7469.D
Acq On : 28 Mar 2013 8:21 pm
Operator : AAP
Sample : 1303746-009A
Misc : SAMP 5.0ML 1OF3 SB
ALS Vial : 26 Sample Multiplier: 1

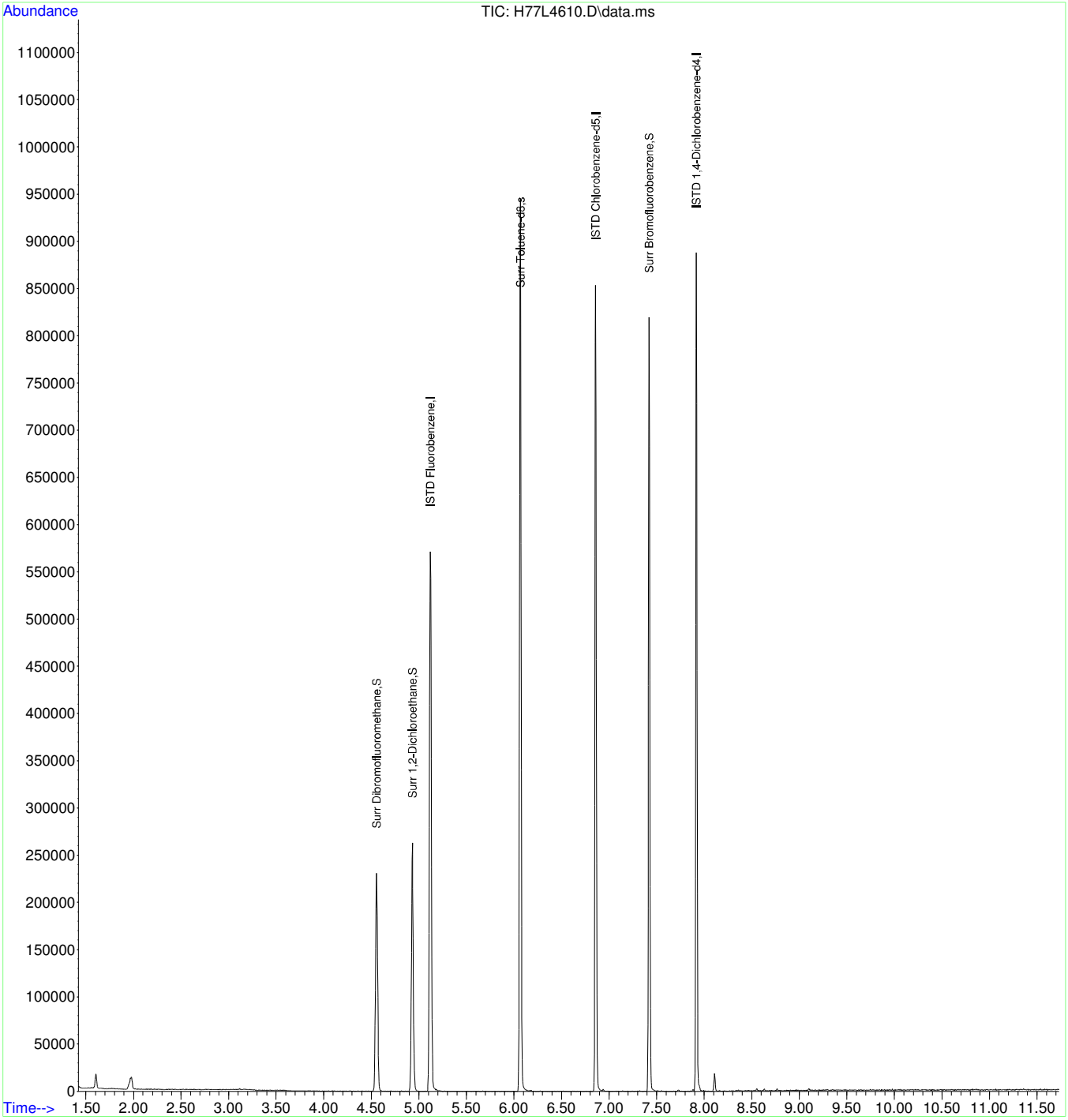
Quant Time: Mar 29 09:37:00 2013
Quant Method : C:\MSDCHEM\1\METHODS\DFULLW_15.M
Quant Title : VOA Calibration
QLast Update : Thu Mar 28 16:15:10 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\MAR13-D\28MAR13\
Data File : H77L4610.D
Acq On : 28 Mar 2013 8:40 pm
Operator : AAP
Sample : 1303746-010A
Misc : SAMP 5.0ML 1OF3 SB
ALS Vial : 27 Sample Multiplier: 1

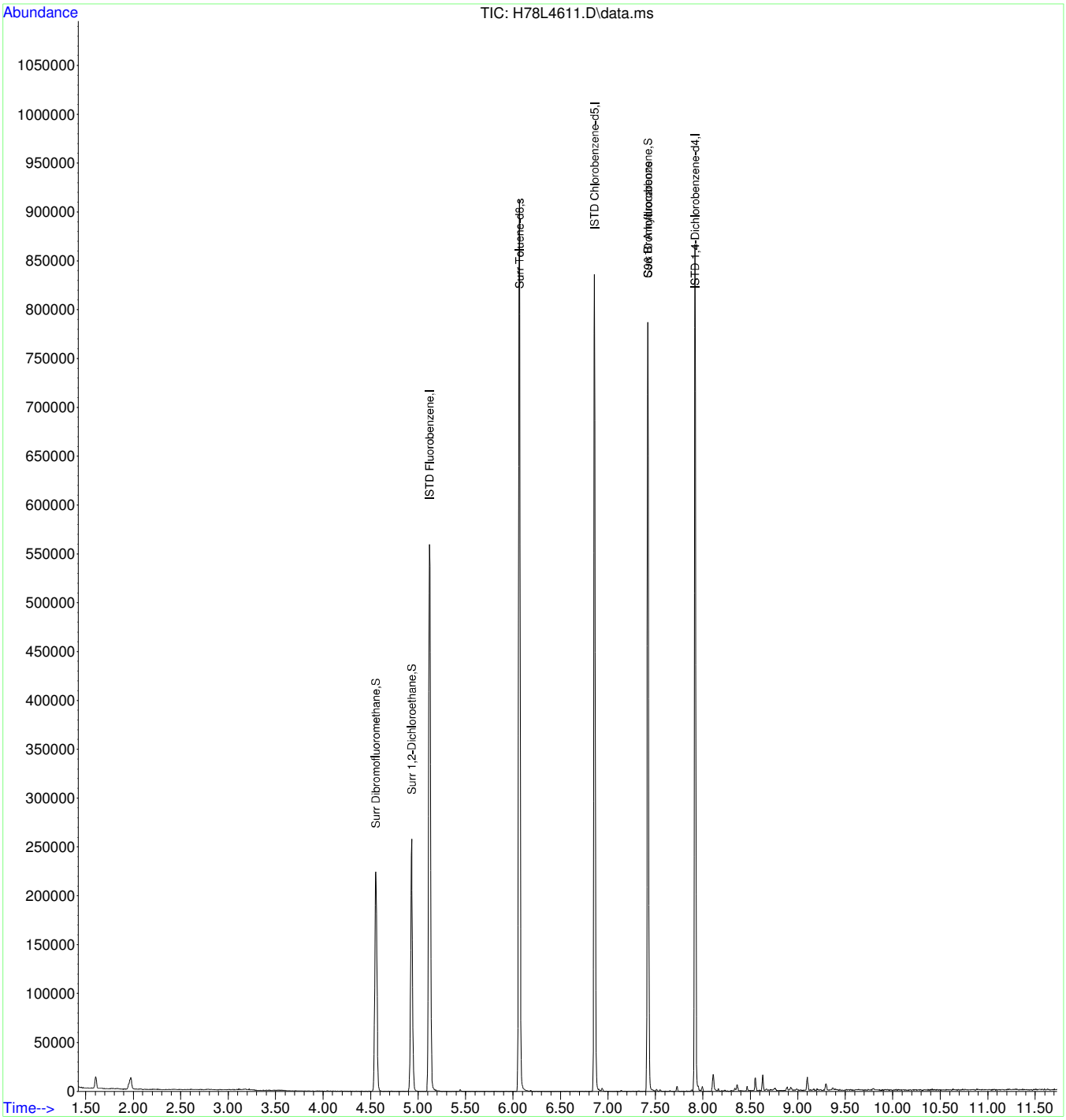
Quant Time: Mar 29 09:37:27 2013
Quant Method : C:\MSDCHEM\1\METHODS\DFULLW_15.M
Quant Title : VOA Calibration
QLast Update : Thu Mar 28 16:15:10 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\MAR13-D\28MAR13\
Data File : H78L4611.D
Acq On : 28 Mar 2013 8:59 pm
Operator : AAP
Sample : 1303746-011A
Misc : SAMP 5.0ML 1OF3 SB
ALS Vial : 28 Sample Multiplier: 1

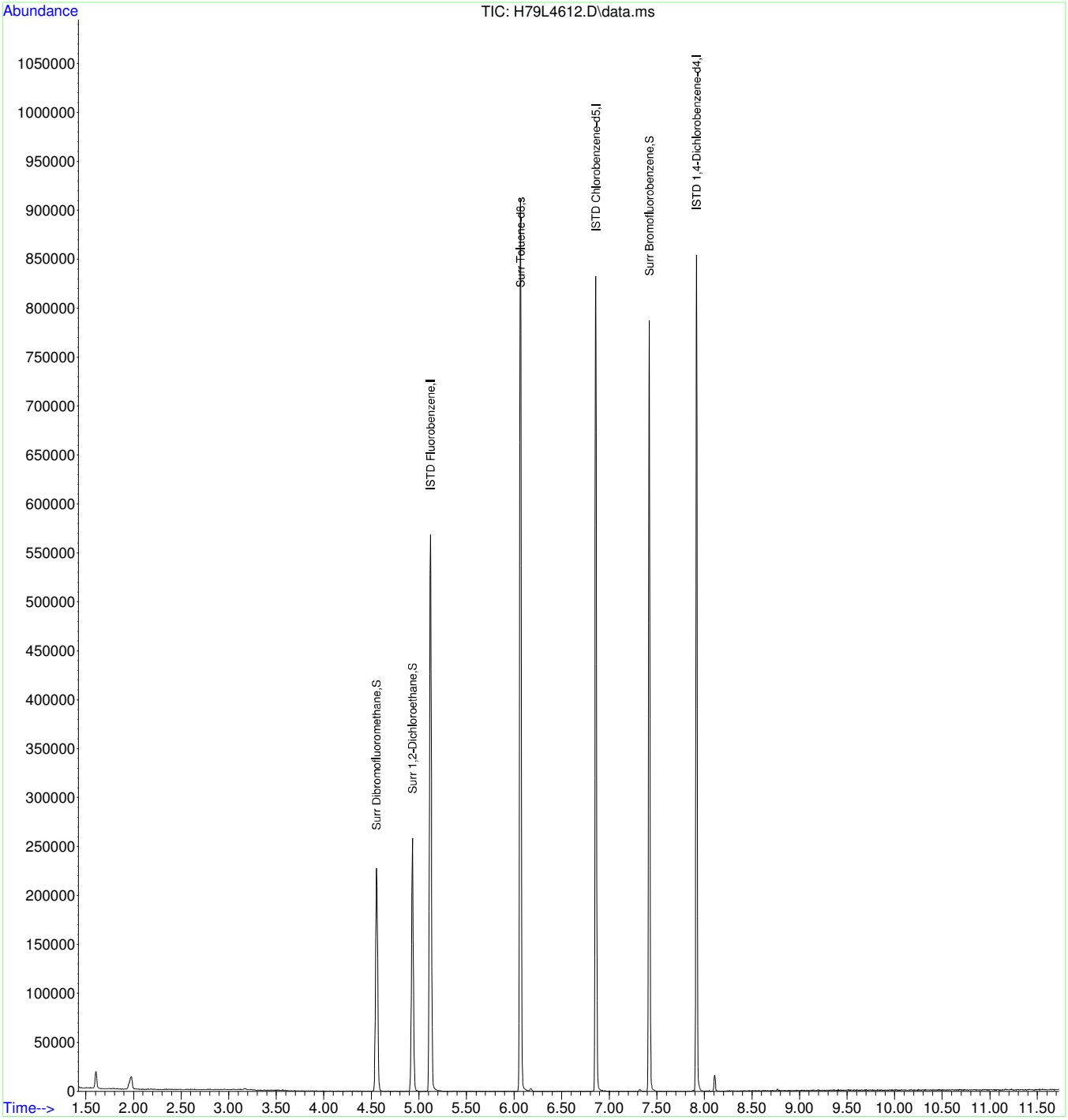
Quant Time: Mar 29 09:37:59 2013
Quant Method : C:\MSDCHEM\1\METHODS\DFULLW_15.M
Quant Title : VOA Calibration
QLast Update : Thu Mar 28 16:15:10 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\MAR13-D\28MAR13\
Data File : H79L4612.D
Acq On : 28 Mar 2013 9:18 pm
Operator : AAP
Sample : 1303746-012A
Misc : SAMP 5.0ML 1OF3 SB
ALS Vial : 29 Sample Multiplier: 1

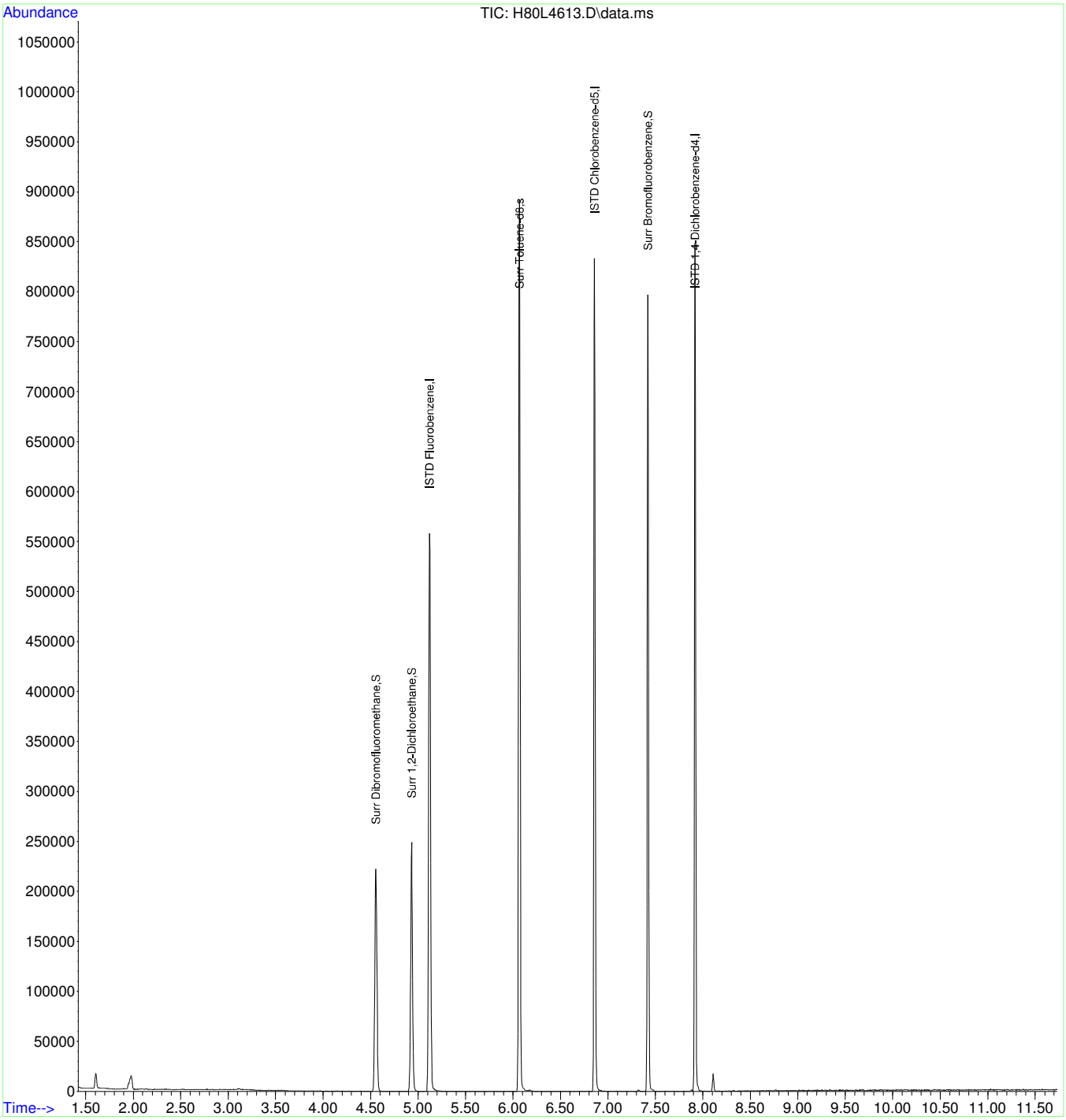
Quant Time: Mar 29 09:38:42 2013
Quant Method : C:\MSDCHEM\1\METHODS\DFULLW_15.M
Quant Title : VOA Calibration
QLast Update : Thu Mar 28 16:15:10 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\MAR13-D\28MAR13\
Data File : H80L4613.D
Acq On : 28 Mar 2013 9:37 pm
Operator : AAP
Sample : 1303746-013A
Misc : SAMP 5.0ML 1OF3 SB
ALS Vial : 30 Sample Multiplier: 1

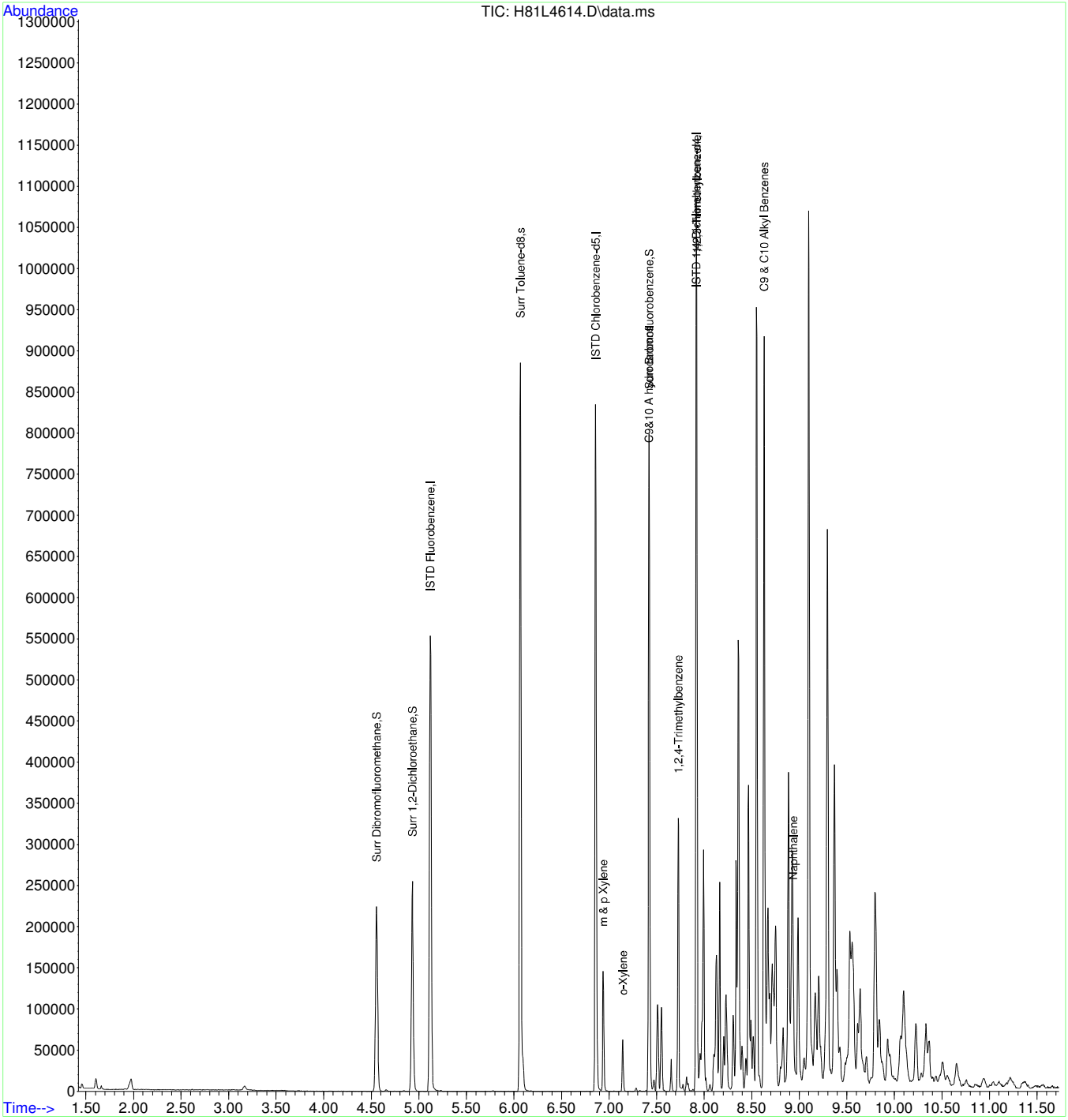
Quant Time: Mar 29 10:30:07 2013
Quant Method : C:\MSDCHEM\1\METHODS\DFULLW_15.M
Quant Title : VOA Calibration
QLast Update : Thu Mar 28 16:15:10 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

```
Data Path : C:\msdchem\1\data\MAR13-D\28MAR13\
Data File : H81L4614.D
Acq On    : 28 Mar 2013   9:56 pm
Operator  : AAP
Sample    : 1303746-014A
Misc      : SAMP       5.0ML   1OF3   SB
ALS Vial  : 31   Sample Multiplier: 1

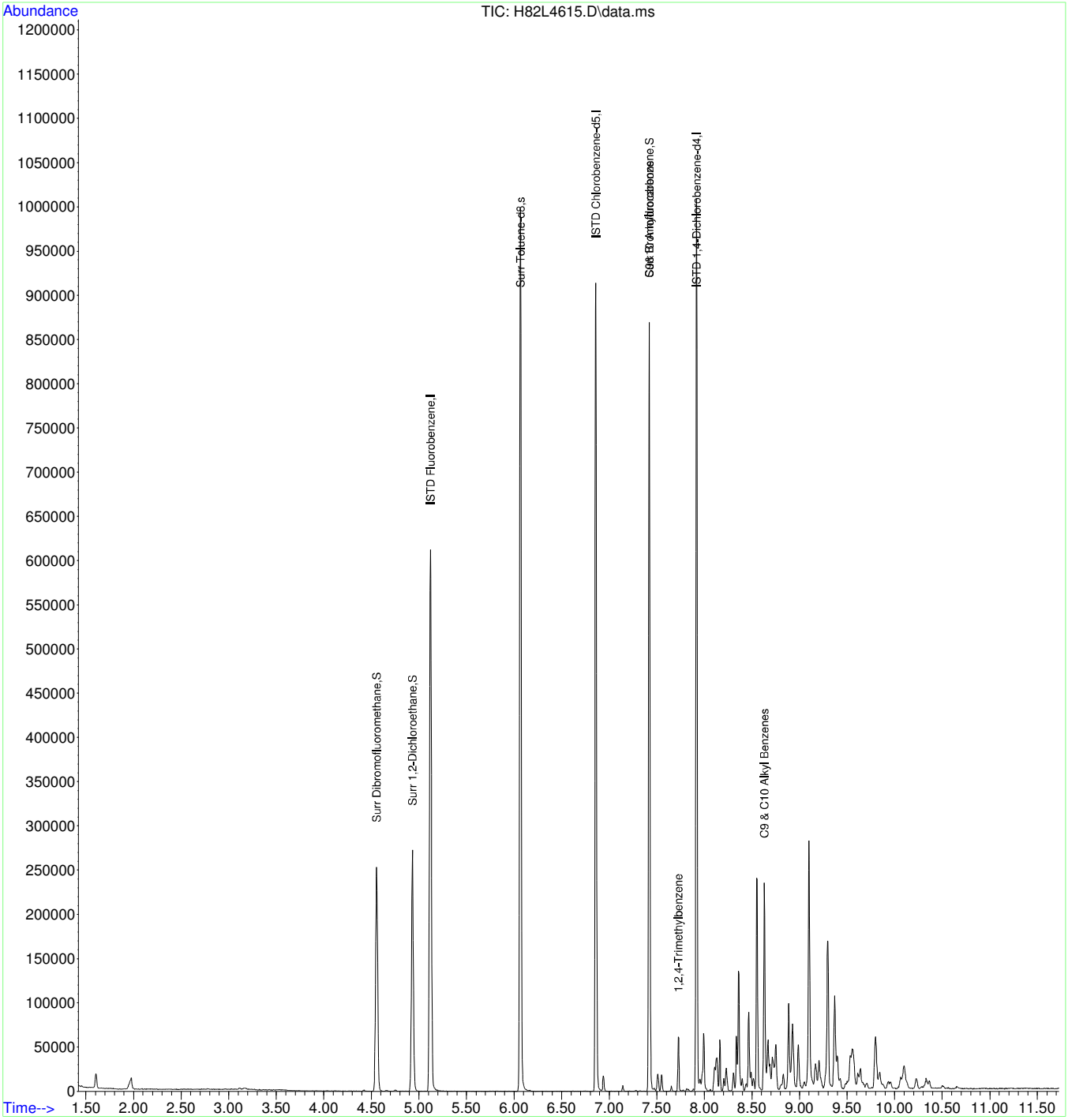
Quant Time: Mar 29 10:31:10 2013
Quant Method : C:\MSDCHEM\1\METHODS\DFULLW_15.M
Quant Title  : VOA  Calibration
QLast Update : Thu Mar 28 16:15:10 2013
Response via : Initial Calibration
```



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\MAR13-D\28MAR13\
Data File : H82L4615.D
Acq On : 28 Mar 2013 10:15 pm
Operator : SB
Sample : 1303746-015A
Misc : SAMP 10ML/50ML 1OF3 SB
ALS Vial : 32 Sample Multiplier: 5

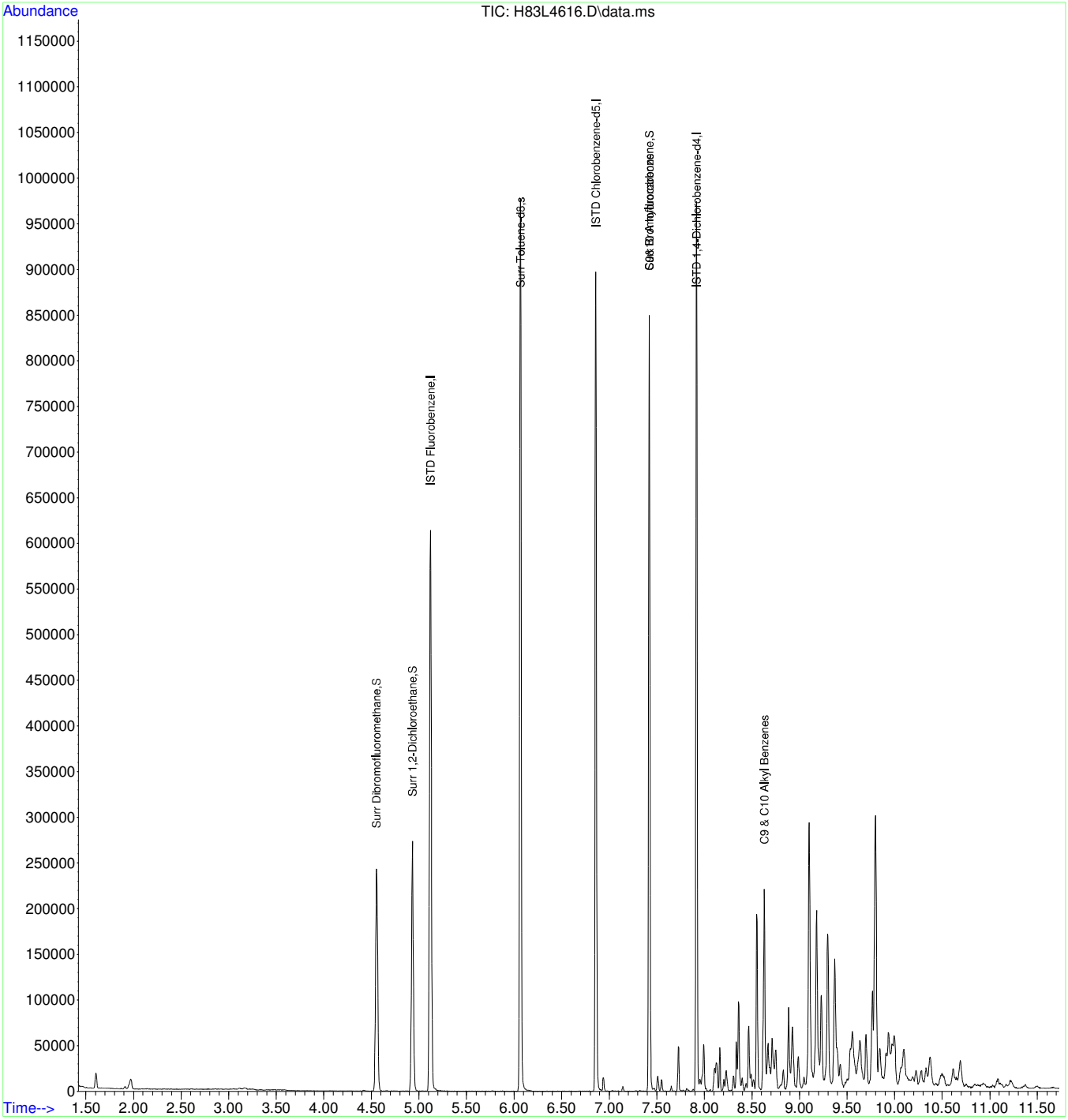
Quant Time: Mar 29 10:31:59 2013
Quant Method : C:\MSDCHEM\1\METHODS\DFULLW_15.M
Quant Title : VOA Calibration
QLast Update : Thu Mar 28 16:15:10 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\MAR13-D\28MAR13\
Data File : H83L4616.D
Acq On : 28 Mar 2013 10:34 pm
Operator : AAP
Sample : 1303746-016A
Misc : SAMP 10ML/50ML 1OF3 SB
ALS Vial : 33 Sample Multiplier: 5

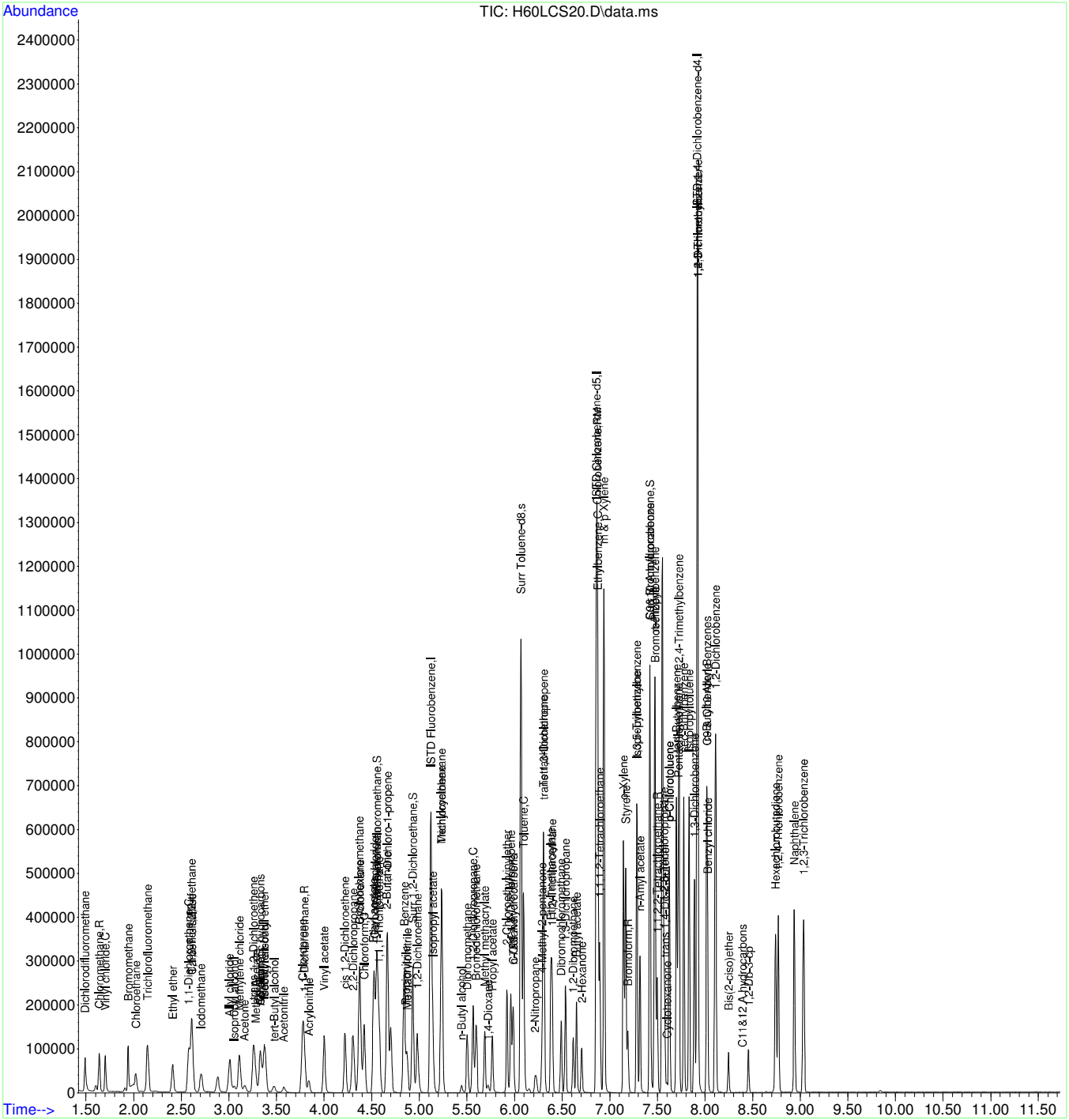
Quant Time: Mar 29 10:32:42 2013
Quant Method : C:\MSDCHEM\1\METHODS\DFULLW_15.M
Quant Title : VOA Calibration
QLast Update : Thu Mar 28 16:15:10 2013
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\MAR13-D\28MAR13\
Data File : H60LCS20.D
Acq On : 28 Mar 2013 3:17 pm
Operator : AAP
Sample : LCS VOC 032813A
Misc : LCS SEE COVERSHEET FOR ID AND AMOUNT SB
ALS Vial : 10 Sample Multiplier: 1

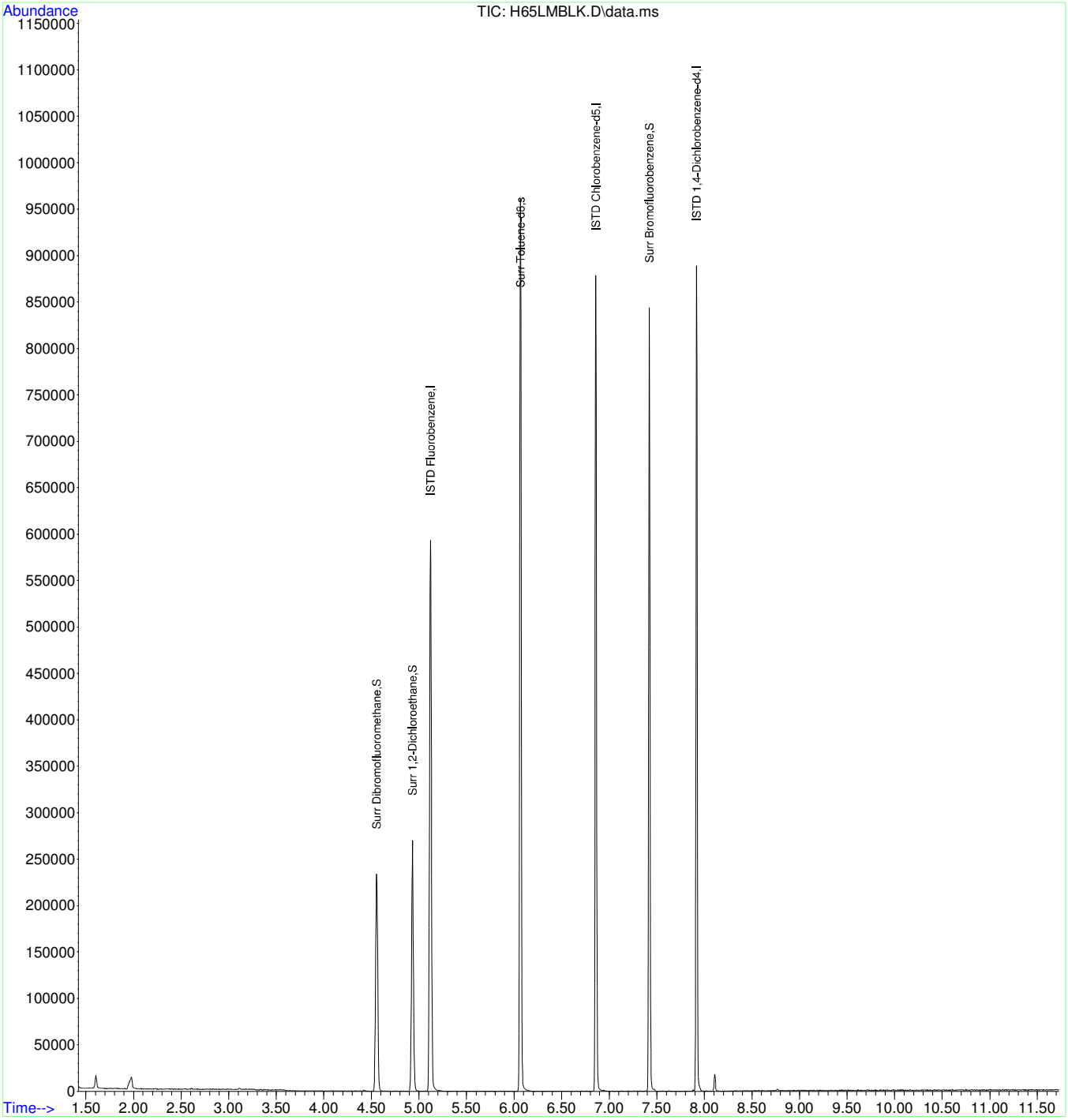
Quant Time: Mar 28 16:41:05 2013
Quant Method : C:\msdchem\1\methods\DFULLW_15.M
Quant Title : VOA Calibration
QLast Update : Thu Mar 28 16:13:17 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\MAR13-D\28MAR13\
Data File : H65LMBLK.D
Acq On : 28 Mar 2013 4:52 pm
Operator : AAP
Sample : MB VOC 032813A
Misc : MBLK 5.0ML SB
ALS Vial : 15 Sample Multiplier: 1

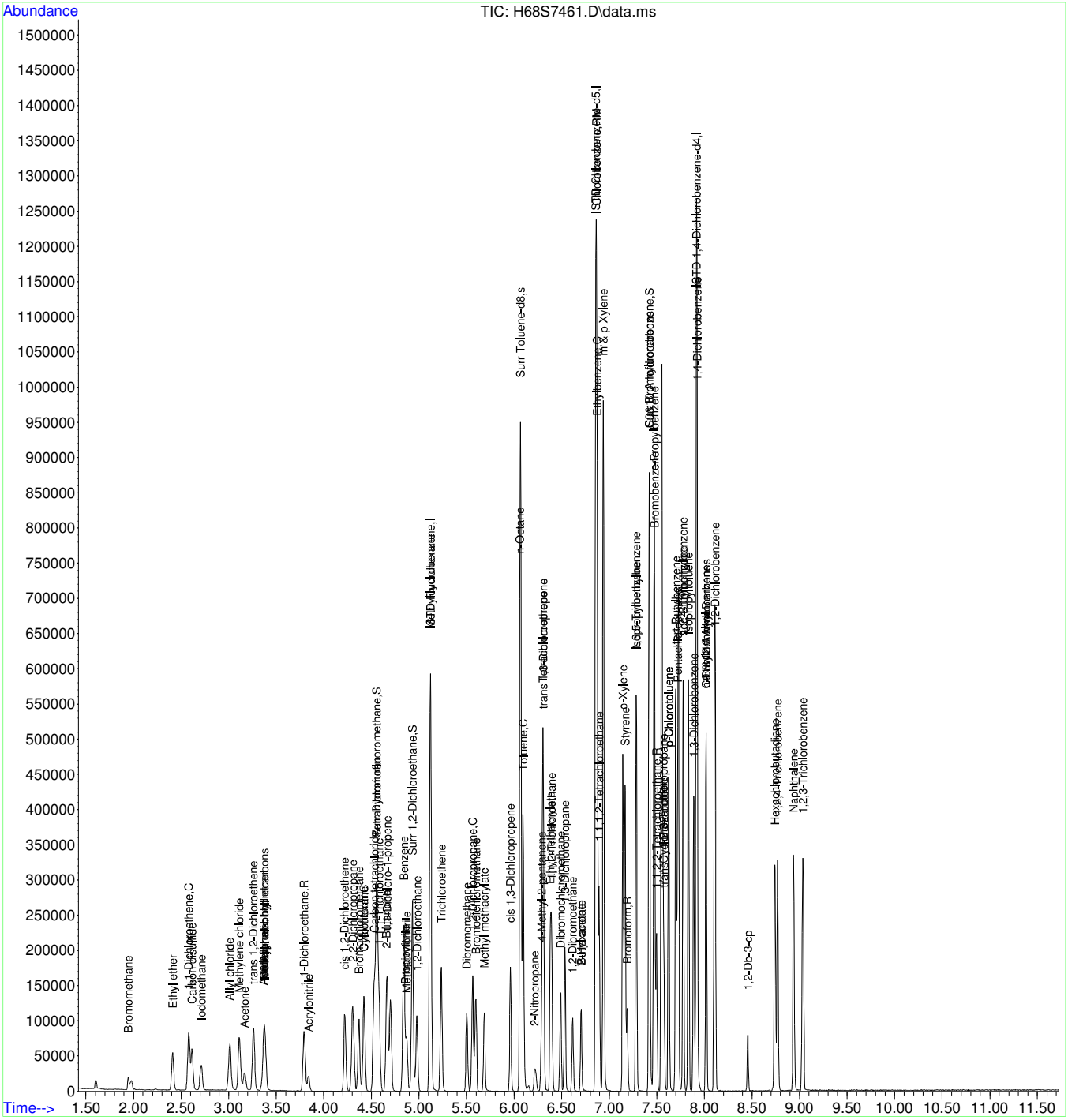
Quant Time: Mar 28 17:08:11 2013
Quant Method : C:\msdchem\1\methods\DFULLW_15.M
Quant Title : VOA Calibration
QLast Update : Thu Mar 28 16:13:17 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

```
Data Path : C:\msdchem\1\data\MAR13-D\28MAR13\
Data File : H68S7461.D
Acq On    : 28 Mar 2013   5:49 pm
Operator  : AAP
Sample    : 1303746-001AMS
Misc      : MS           5.0ML   2OF3   SB
ALS Vial  : 18   Sample Multiplier: 1

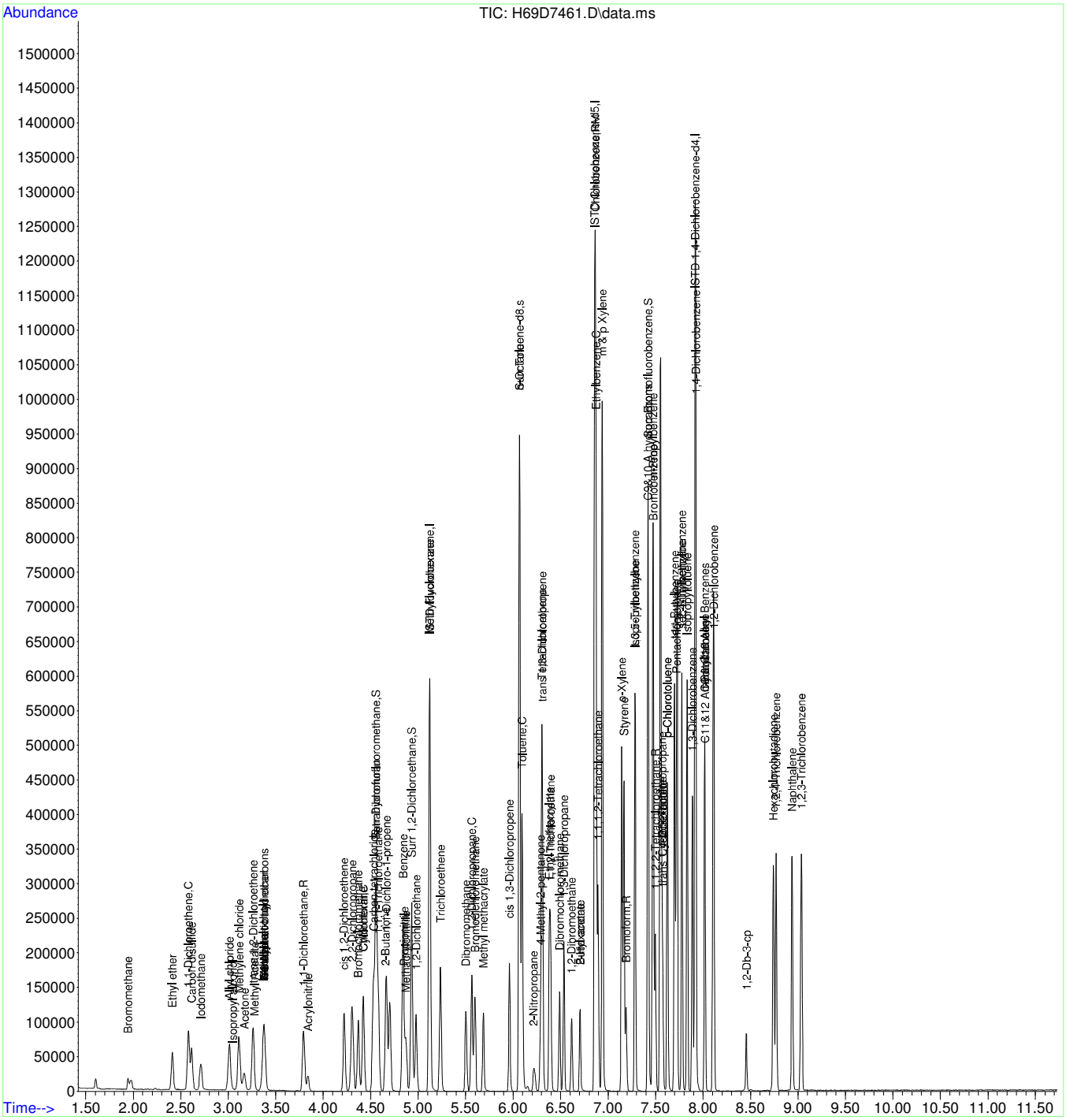
Quant Time: Mar 28 18:01:46 2013
Quant Method : C:\MSDCHEM\1\METHODS\DFULLW_15.M
Quant Title  : VOA  Calibration
QLast Update : Thu Mar 28 16:15:10 2013
Response via : Initial Calibration
```



Quantitation Report (QT Reviewed)

```
Data Path : C:\msdchem\1\data\MAR13-D\28MAR13\
Data File : H69D7461.D
Acq On    : 28 Mar 2013   6:08 pm
Operator  : AAP
Sample    : 1303746-001AMSD
Misc      : MSD         5.0ML   3OF3   SB
ALS Vial  : 19   Sample Multiplier: 1

Quant Time: Mar 28 18:20:44 2013
Quant Method : C:\MSDCHEM\1\METHODS\DFULLW_15.M
Quant Title  : VOA  Calibration
QLast Update : Thu Mar 28 16:15:10 2013
Response via : Initial Calibration
```



American West Analytical Laboratories

RUSH

D

WORK ORDER Summary

Work Order: **1303746**

Client: Utah Division of Water Quality

Due Date: 3/29/2013

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	
1303746-001A	**East of I-15 / 4920392**	3/28/2013 0750h	3/28/2013 1319h	**8260-W**	Aqueous	☑	Purge	3
				Test Group: 8260-W-Full; # of Analytes: 103 / # of Surr: 4				
1303746-001B				**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:				
1303746-001C				**3510-TPH-PR**		☐	Walkin-TPH (Liters)	
				8015-W-TPH(1L)		☑	Walkin-TPH (Liters)	
				Test Group: 8015-W-TPH1L; # of Analytes: 1 / # of Surr: 1				
1303746-002A	**South Marina / 4920495**	3/28/2013 0810h	3/28/2013 1319h	**8260-W**	Aqueous	☑	Purge	3
				Test Group: 8260-W-Full; # of Analytes: 103 / # of Surr: 4				
1303746-002B				**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:				
1303746-002C				**3510-TPH-PR**		☐	Walkin-TPH (Liters)	
				8015-W-TPH(1L)		☑	Walkin-TPH (Liters)	
				Test Group: 8015-W-TPH1L; # of Analytes: 1 / # of Surr: 1				
1303746-003A	**North Boom / 4920397**	3/28/2013 0930h	3/28/2013 1319h	**8260-W**	Aqueous	☑	Purge	3
				Test Group: 8260-W-Full; # of Analytes: 103 / # of Surr: 4				
1303746-003B				**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:				
1303746-003C				**3510-TPH-PR**		☐	Walkin-TPH (Liters)	
				8015-W-TPH(1L)		☑	Walkin-TPH (Liters)	
				Test Group: 8015-W-TPH1L; # of Analytes: 1 / # of Surr: 1				
1303746-004A	**W Boom 5 / 4920499**	3/28/2013 0950h	3/28/2013 1319h	**8260-W**	Aqueous	☑	Purge	3
				Test Group: 8260-W-Full; # of Analytes: 103 / # of Surr: 4				
1303746-004B				**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: **1303746**

Client: Utah Division of Water Quality

Due Date: 3/29/2013

Sample ID	Client Sample ID	Collected Date	Received Date	Test Code	Matrix	Sel	Storage	
1303746-004B	**W Boom 5 / 4920499**	3/28/2013 0950h	3/28/2013 1319h	**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:				
1303746-004C				**3510-TPH-PR**		☐	Walkin-TPH (Liters)	
				8015-W-TPH(1L)		☑	Walkin-TPH (Liters)	
				Test Group: 8015-W-TPH1L; # of Analytes: 1 / # of Surr: 1				
1303746-005A	**W Boom 4 / 4920498**	3/28/2013 1000h	3/28/2013 1319h	**8260-W**	Aqueous	☑	Purge	3
				Test Group: 8260-W-Full; # of Analytes: 103 / # of Surr: 4				
1303746-005B				**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:				
1303746-005C				**3510-TPH-PR**		☐	Walkin-TPH (Liters)	
				8015-W-TPH(1L)		☑	Walkin-TPH (Liters)	
				Test Group: 8015-W-TPH1L; # of Analytes: 1 / # of Surr: 1				
1303746-006A	**W Boom 3 / 4920497**	3/28/2013 1020h	3/28/2013 1319h	**8260-W**	Aqueous	☑	Purge	3
				Test Group: 8260-W-Full; # of Analytes: 103 / # of Surr: 4				
1303746-006B				**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:				
1303746-006C				**3510-TPH-PR**		☐	Walkin-TPH (Liters)	
				8015-W-TPH(1L)		☑	Walkin-TPH (Liters)	
				Test Group: 8015-W-TPH1L; # of Analytes: 1 / # of Surr: 1				
1303746-007A	**W Boom 2 / 4920496**	3/28/2013 1030h	3/28/2013 1319h	**8260-W**	Aqueous	☑	Purge	3
				Test Group: 8260-W-Full; # of Analytes: 103 / # of Surr: 4				
1303746-007B				**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:				
1303746-007C				**3510-TPH-PR**		☐	Walkin-TPH (Liters)	
				8015-W-TPH(1L)		☑	Walkin-TPH (Liters)	
				Test Group: 8015-W-TPH1L; # of Analytes: 1 / # of Surr: 1				
1303746-008A	**W Boom 1 / 4920396**	3/28/2013 1040h	3/28/2013 1319h	**8260-W**	Aqueous	☑	Purge	3
				Test Group: 8260-W-Full; # of Analytes: 103 / # of Surr: 4				
1303746-008B				**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: **1303746**

Client: Utah Division of Water Quality

Due Date: 4/1/2013

Sample ID	Client Sample ID	Collected Date	Received Date	Test Code	Matrix	Sel	Storage	
1303746-008B	**W Boom 1 / 4920396**	3/28/2013 1040h	3/28/2013 1319h	**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:				
1303746-008C				**3510-TPH-PR**		☐	Walkin-TPH (Liters)	
				8015-W-TPH(1L)		☑	Walkin-TPH (Liters)	
				Test Group: 8015-W-TPH1L; # of Analytes: 1 / # of Surr: 1				
1303746-009A	**50' From 0397 / 4920508**	3/28/2013 0940h	3/28/2013 1319h	**8260-W**	Aqueous	☑	Purge	3
				Test Group: 8260-W-Full; # of Analytes: 103 / # of Surr: 4				
1303746-009B				**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:				
1303746-009C				**3510-TPH-PR**		☐	Walkin-TPH (Liters)	
				8015-W-TPH(1L)		☑	Walkin-TPH (Liters)	
				Test Group: 8015-W-TPH1L; # of Analytes: 1 / # of Surr: 1				
1303746-010A	**50' From 0498 / 4920502**	3/28/2013 1010h	3/28/2013 1319h	**8260-W**	Aqueous	☑	Purge	3
				Test Group: 8260-W-Full; # of Analytes: 103 / # of Surr: 4				
1303746-010B				**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:				
1303746-010C				**3510-TPH-PR**		☐	Walkin-TPH (Liters)	
				8015-W-TPH(1L)		☑	Walkin-TPH (Liters)	
				Test Group: 8015-W-TPH1L; # of Analytes: 1 / # of Surr: 1				
1303746-011A	**50' From 0396 / 4920505**	3/28/2013 1050h	3/28/2013 1319h	**8260-W**	Aqueous	☑	Purge	3
				Test Group: 8260-W-Full; # of Analytes: 103 / # of Surr: 4				
1303746-011B				**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:				
1303746-011C				**3510-TPH-PR**		☐	Walkin-TPH (Liters)	
				8015-W-TPH(1L)		☑	Walkin-TPH (Liters)	
				Test Group: 8015-W-TPH1L; # of Analytes: 1 / # of Surr: 1				
1303746-012A	**Trip Blank**	3/28/2013	3/28/2013 1319h	**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: **1303746**

Client: Utah Division of Water Quality

Due Date: 3/29/2013

Sample ID	Client Sample ID	Collected Date	Received Date	Test Code	Matrix	Sel	Storage	
1303746-013A	**Field Blank**	3/28/2013 0900h	3/28/2013 1319h	**8260-W**	Aqueous	☑	Purge	3
				Test Group: 8260-W-Full; # of Analytes: 103 / # of Surr: 4				
1303746-014A	**East of Boom / 4920395**	3/28/2013 1130h	3/28/2013 1319h	**8260-W**	Aqueous	☑	Purge	3
				Test Group: 8260-W-Full; # of Analytes: 103 / # of Surr: 4				
1303746-014B				**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:				
1303746-014C				**3510-TPH-PR**		☐	Walkin-TPH (Liters)	
				8015-W-TPH(1L)		☑	Walkin-TPH (Liters)	
				Test Group: 8015-W-TPH1L; # of Analytes: 1 / # of Surr: 1				
1303746-015A	**Between Weirs / 4920394**	3/28/2013 1115h	3/28/2013 1319h	**8260-W**	Aqueous	☑	Purge	3
				Test Group: 8260-W-Full; # of Analytes: 103 / # of Surr: 4				
1303746-015B				**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:				
1303746-015C				**3510-TPH-PR**		☐	Walkin-TPH (Liters)	
				8015-W-TPH(1L)		☑	Walkin-TPH (Liters)	
				Test Group: 8015-W-TPH1L; # of Analytes: 1 / # of Surr: 1				
1303746-016A	**Between Weirs Dup / 4920394**	3/28/2013 1120h	3/28/2013 1319h	**8260-W**	Aqueous	☑	Purge	3
				Test Group: 8260-W-Full; # of Analytes: 103 / # of Surr: 4				
1303746-016B				**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:				
1303746-016C				**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 UDOT DWQ
Address 195 N 1950 W
SLC UT 84114
City State Zip
Phone 536-3600 Fax
Contact CHRIS BITTNER
E-mail cbittner@utah.gov
Project Name MP 44.9
Project Number/P.O.#
Sampler Name 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 # 1303746
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)	TESTS REQUIRED: 8260 VOAS	8270 D SIM TL	8015 D DRO								QC LEVEL	COMMENTS
EAST OF I-15	4920392	3/28	0750	W	7	X	X	X								1 2 2+ 3 3+ 4	
S. MARINA	4920495		0810	W	7	X	X	X									
N. BOOM	4920397		0930	W	7	X	X	X									
W BOOM 5	4920499		0950	W	7	X	X	X									
W. BOOM 4	4920498		1000	W	7	X	X	X									
W BOOM 3	4920497		1020	W	7	X	X	X									
W BOOM 2	4920496		1030	W	7	X	X	X									
W BOOM 1	4920396		1040	W	7	X	X	X									
50 ft FROM 0397	4920508		940	W	7	X	X	X									
50ft FROM 0498	4920502		1010	W	7	X	X	X									
50' FROM 0396	4920505		1050	W	7	X	X	X									
TRIP BLANK				W	3	X											

Relinquished By: Signature	Date	Received By: Signature	Date
PRINT NAME JAMES HARRIS	Time 1320 19	PRINT NAME Elma Hayes	Time 1319
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 1.3
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 84114
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: J. HARRIS

AMERICAN WEST ANALYTICAL LABORATORIES
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Salt Lake City, Utah 84115
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CHAIN OF CUSTODY

Lab Sample Set # 1303746
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 PNA	8270D SIMTIC	8015 D GRO								COMMENTS
FIELD BLANK	3/28/13 900	W	3	X										
EAST OF BOOM 4920395	" 1130	W	7	X	X	X								
BETWEEN WEIRS 4920394	" 1115	W	7	X	X	X								
BT WEIRS DUP 4920394	" 1120	W	7	X	X	X								HCL PRESERVED

QC LEVEL: 1 2 2+ (3) 3+ 4

LABORATORY USE ONLY

SAMPLES WERE:
1 Shipped or hand delivered
Notes:
2 Ambient or Chilled
Notes:
3 Temperature 1.3
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:

Relinquished By: Signature	Date	Received By: Signature	Date
	3/28/13		3/28/13
PRINT NAME: JAMES HARRIS	Time: 1319	PRINT NAME: Elena Hayes	Time: 1319
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: