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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: 1304061

American West Analytical Laboratories received 17 sample(s) on 4/2/2013 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: 2013.04.09 16:28:29 -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:	1304061

Sample Receipt Information:

Date of Receipt:	4/2/2013
Date of Collection:	4/2/2013
Sample Condition:	Intact
C-O-C Discrepancies:	None
Method:	SW-846 8015D /3510C
Analysis:	Total Petroleum Hydrocarbon (DRO - C10-28)

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

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

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

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

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

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

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

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

Surrogates: All surrogate recoveries were within established limits.

Corrective Action: None required**.**

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

Semivolatile Case Narrative

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

Client:	Utah Division of Water Quality
Contact:	Chris Bittner
Project:	MP 44.9
Lab Set ID:	1304061

Sample Receipt Information:

Date of Receipt:	4/2/2013
Date of Collection:	4/2/2013
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 limit. 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 (LCS): 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:	1304061

Sample Receipt Information:

Date of Receipt:	4/2/2013
Date of Collection:	4/2/2013
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 1304061-016A, 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: 1304061-001C
Client Sample ID: East of I-15 / 4920392
Collection Date: 4/2/2013 830h
Received Date: 4/2/2013 1400h

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

Analyzed: 4/3/2013 108h **Extracted:** 4/2/2013 1800h
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	0.200	0.4000	50.1	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: 1304061-002C
Client Sample ID: S. Marina / 4920495
Collection Date: 4/2/2013 900h
Received Date: 4/2/2013 1400h

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

Analyzed: 4/3/2013 127h **Extracted:** 4/2/2013 1800h
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	0.216	0.4000	54.1	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: 1304061-003C
Client Sample ID: 50' from N Boom / 4920508
Collection Date: 4/2/2013 1000h
Received Date: 4/2/2013 1400h

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

Analyzed: 4/3/2013 147h **Extracted:** 4/2/2013 1800h
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	0.208	0.4000	52.1	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: 1304061-004C
Client Sample ID: North Boom / 4920397
Collection Date: 4/2/2013 1010h
Received Date: 4/2/2013 1400h

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

Analyzed: 4/3/2013 206h **Extracted:** 4/2/2013 1800h
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	0.213	0.4000	53.2	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: 1304061-005C
Client Sample ID: W. Boom 5 / 4920499
Collection Date: 4/2/2013 1020h
Received Date: 4/2/2013 1400h

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

Analyzed: 4/3/2013 225h **Extracted:** 4/2/2013 1800h
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	0.171	0.4000	42.8	10-190	

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ORGANIC ANALYTICAL REPORT

Client: Utah Division of Water Quality **Contact:** Chris Bittner
Project: MP 44.9
Lab Sample ID: 1304061-006C
Client Sample ID: W. Boom 4 / 4920498
Collection Date: 4/2/2013 1030h
Received Date: 4/2/2013 1400h

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

Analyzed: 4/3/2013 244h **Extracted:** 4/2/2013 1800h
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	0.183	0.4000	45.7	10-190	

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ORGANIC ANALYTICAL REPORT

Client: Utah Division of Water Quality **Contact:** Chris Bittner
Project: MP 44.9
Lab Sample ID: 1304061-007C
Client Sample ID: 50' from WB 4 / 4920502
Collection Date: 4/2/2013 1040h
Received Date: 4/2/2013 1400h

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

Analyzed: 4/3/2013 304h **Extracted:** 4/2/2013 1800h
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	0.206	0.4000	51.5	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: 1304061-008C
Client Sample ID: W. Boom 3 / 4920497
Collection Date: 4/2/2013 1050h
Received Date: 4/2/2013 1400h

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

Analyzed: 4/3/2013 323h **Extracted:** 4/2/2013 1800h
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	0.205	0.4000	51.3	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: 1304061-009C
Client Sample ID: W. Boom 2 / 4920496
Collection Date: 4/2/2013 1100h
Received Date: 4/2/2013 1400h

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

Analyzed: 4/3/2013 342h **Extracted:** 4/2/2013 1800h
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	45.2	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: 1304061-010C
Client Sample ID: 50' From WB1 / 4920505
Collection Date: 4/2/2013 1110h
Received Date: 4/2/2013 1400h

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

Analyzed: 4/3/2013 401h **Extracted:** 4/2/2013 1800h
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	0.171	0.4000	42.8	10-190	

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ORGANIC ANALYTICAL REPORT

Client: Utah Division of Water Quality **Contact:** Chris Bittner
Project: MP 44.9
Lab Sample ID: 1304061-011C
Client Sample ID: W. Boom 1 / 4920396
Collection Date: 4/2/2013 1120h
Received Date: 4/2/2013 1400h

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

Analyzed: 4/3/2013 537h **Extracted:** 4/2/2013 1800h
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	0.179	0.4000	44.6	10-190	

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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: 1304061-012C
Client Sample ID: East of Boom / 4920395
Collection Date: 4/2/2013 1145h
Received Date: 4/2/2013 1400h

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

Analyzed: 4/3/2013 556h **Extracted:** 4/2/2013 1800h
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	**1.83**	

Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 4-Bromofluorobenzene	460-00-4	0.209	0.4000	52.3	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: 1304061-013C
Client Sample ID: Between Weirs / 4920394
Collection Date: 4/2/2013 1200h
Received Date: 4/2/2013 1400h

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

Analyzed: 4/3/2013 615h **Extracted:** 4/2/2013 1800h
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	**3.05**	

Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 4-Bromofluorobenzene	460-00-4	0.224	0.4000	56.1	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: 1304061-014C
Client Sample ID: Between Weirs Dup / 4920394
Collection Date: 4/2/2013 1210h
Received Date: 4/2/2013 1400h

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

Analyzed: 4/3/2013 634h **Extracted:** 4/2/2013 1800h
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	**3.25**	

Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 4-Bromofluorobenzene	460-00-4	0.214	0.4000	53.5	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: 1304061-017C
Client Sample ID: French Drain / 4920398
Collection Date: 4/2/2013 1200h
Received Date: 4/2/2013 1400h

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

Analyzed: 4/3/2013 653h **Extracted:** 4/2/2013 1800h
Units: mg/L **Dilution Factor:** 1 **Method:** SW8015D

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Diesel Range Organics (DRO) (C10-C28)	68476-34-6	0.500	**2.84**	

Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 4-Bromofluorobenzene	460-00-4	0.188	0.4000	46.9	10-190	

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ORGANIC ANALYTICAL REPORT

Client: Utah Division of Water Quality **Contact:** Chris Bittner
Project: MP 44.9
Lab Sample ID: 1304061-001B
Client Sample ID: East of I-15 / 4920392
Collection Date: 4/2/2013 830h
Received Date: 4/2/2013 1400h

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

Analyzed: 4/7/2013 1831h **Extracted:** 4/2/2013 1500h
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: 1304061-002B
Client Sample ID: S. Marina / 4920495
Collection Date: 4/2/2013 900h
Received Date: 4/2/2013 1400h

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

Analyzed: 4/7/2013 2233h **Extracted:** 4/2/2013 1500h
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: 1304061-003B
Client Sample ID: 50' from N Boom / 4920508
Collection Date: 4/2/2013 1000h
Received Date: 4/2/2013 1400h

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

Analyzed: 4/7/2013 2300h **Extracted:** 4/2/2013 1500h
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	**0.120**	

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ORGANIC ANALYTICAL REPORT

Client: Utah Division of Water Quality **Contact:** Chris Bittner
Project: MP 44.9
Lab Sample ID: 1304061-004B
Client Sample ID: North Boom / 4920397
Collection Date: 4/2/2013 1010h
Received Date: 4/2/2013 1400h

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

Analyzed: 4/7/2013 2327h **Extracted:** 4/2/2013 1500h
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: 1304061-005B
Client Sample ID: W. Boom 5 / 4920499
Collection Date: 4/2/2013 1020h
Received Date: 4/2/2013 1400h

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

Analyzed: 4/7/2013 2354h **Extracted:** 4/2/2013 1500h
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: 1304061-006B
Client Sample ID: W. Boom 4 / 4920498
Collection Date: 4/2/2013 1030h
Received Date: 4/2/2013 1400h

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

Analyzed: 4/8/2013 021h **Extracted:** 4/2/2013 1500h
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	**0.140**	
2-Methylnaphthalene	91-57-6	0.100	**0.110**	
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: 1304061-007B
Client Sample ID: 50' from WB 4 / 4920502
Collection Date: 4/2/2013 1040h
Received Date: 4/2/2013 1400h

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

Analyzed: 4/8/2013 048h **Extracted:** 4/2/2013 1500h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8270D

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QA Officer

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
1-Methylnaphthalene	90-12-0	0.100	< 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: 1304061-008B
Client Sample ID: W. Boom 3 / 4920497
Collection Date: 4/2/2013 1050h
Received Date: 4/2/2013 1400h

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

Analyzed: 4/8/2013 114h **Extracted:** 4/2/2013 1500h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8270D

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

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Jose Rocha
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: 1304061-009B
Client Sample ID: W. Boom 2 / 4920496
Collection Date: 4/2/2013 1100h
Received Date: 4/2/2013 1400h

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

Analyzed: 4/8/2013 141h **Extracted:** 4/2/2013 1500h
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: 1304061-010B
Client Sample ID: 50' From WB1 / 4920505
Collection Date: 4/2/2013 1110h
Received Date: 4/2/2013 1400h

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

Analyzed: 4/8/2013 208h **Extracted:** 4/2/2013 1500h
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: 1304061-011B
Client Sample ID: W. Boom 1 / 4920396
Collection Date: 4/2/2013 1120h
Received Date: 4/2/2013 1400h

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

Analyzed: 4/8/2013 235h **Extracted:** 4/2/2013 1500h
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: 1304061-012B
Client Sample ID: East of Boom / 4920395
Collection Date: 4/2/2013 1145h
Received Date: 4/2/2013 1400h

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

Analyzed: 4/8/2013 302h **Extracted:** 4/2/2013 1500h
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	**1.06**	
2-Methylnaphthalene	91-57-6	0.100	**0.760**	
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	**0.250**	
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: 1304061-013B
Client Sample ID: Between Weirs / 4920394
Collection Date: 4/2/2013 1200h
Received Date: 4/2/2013 1400h

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

Analyzed: 4/8/2013 328h **Extracted:** 4/2/2013 1500h
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	**2.18**	
2-Methylnaphthalene	91-57-6	0.100	**1.46**	
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	**0.440**	
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: 1304061-014B
Client Sample ID: Between Weirs Dup / 4920394
Collection Date: 4/2/2013 1210h
Received Date: 4/2/2013 1400h

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

Analyzed: 4/8/2013 355h **Extracted:** 4/2/2013 1500h
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	**2.07**	
2-Methylnaphthalene	91-57-6	0.100	**1.39**	
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	**0.420**	
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: 1304061-017B
Client Sample ID: French Drain / 4920398
Collection Date: 4/2/2013 1200h
Received Date: 4/2/2013 1400h

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

Analyzed: 4/8/2013 422h **Extracted:** 4/2/2013 1500h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8270D

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Compound	CAS Number	Reporting Limit	Analytical Result	Qual
1-Methylnaphthalene	90-12-0	0.100	**3.17**	
2-Methylnaphthalene	91-57-6	0.100	**3.09**	
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	**2.00**	
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: 1304061-001B
Client Sample ID: East of I-15 / 4920392
Collection Date: 4/2/2013 830h
Received Date: 4/2/2013 1400h

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

Analyzed: 4/7/2013 2255h **Extracted:** 4/2/2013 1500h
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: 1304061-001B
Client Sample ID: East of I-15 / 4920392

Analyzed: 4/7/2013 2255h **Extracted:** 4/2/2013 1500h
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: 1304061-001B
Client Sample ID: East of I-15 / 4920392

Analyzed: 4/7/2013 2255h **Extracted:** 4/2/2013 1500h
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: 1304061-001B
Client Sample ID: East of I-15 / 4920392

Analyzed: 4/7/2013 2255h **Extracted:** 4/2/2013 1500h
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: 1304061-001B
Client Sample ID: East of I-15 / 4920392

Analyzed: 4/7/2013 2255h **Extracted:** 4/2/2013 1500h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8270D

Compound	CAS Number	Reporting Limit	Analytical Result	Qual

Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 2,4,6-Tribromophenol	118-79-6	51.4	80.00	64.2	14-159	
Surr: 2-Fluorobiphenyl	321-60-8	21.5	40.00	53.8	10-124	
Surr: 2-Fluorophenol	367-12-4	20.7	80.00	25.8	10-106	
Surr: Nitrobenzene-d5	4165-60-0	18.0	40.00	45.0	10-180	
Surr: Phenol-d6	13127-88-3	16.0	80.00	20.0	10-122	
Surr: Terphenyl-d14	1718-51-0	39.8	40.00	99.5	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

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ORGANIC ANALYTICAL REPORT

Client: Utah Division of Water Quality **Contact:** Chris Bittner
Project: MP 44.9
Lab Sample ID: 1304061-002B
Client Sample ID: S. Marina / 4920495
Collection Date: 4/2/2013 900h
Received Date: 4/2/2013 1400h

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

Analyzed: 4/8/2013 005h **Extracted:** 4/2/2013 1500h
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: 1304061-002B
Client Sample ID: S. Marina / 4920495

Analyzed: 4/8/2013 005h **Extracted:** 4/2/2013 1500h
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: 1304061-002B
Client Sample ID: S. Marina / 4920495

Analyzed: 4/8/2013 005h **Extracted:** 4/2/2013 1500h
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: 1304061-002B
Client Sample ID: S. Marina / 4920495

Analyzed: 4/8/2013 005h **Extracted:** 4/2/2013 1500h
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.

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

Lab Sample ID: 1304061-002B
Client Sample ID: S. Marina / 4920495

Analyzed: 4/8/2013 005h **Extracted:** 4/2/2013 1500h
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	59.0	80.00	73.7	14-159	
Surr: 2-Fluorobiphenyl	321-60-8	18.9	40.00	47.3	10-124	
Surr: 2-Fluorophenol	367-12-4	27.8	80.00	34.7	10-106	
Surr: Nitrobenzene-d5	4165-60-0	17.1	40.00	42.8	10-180	
Surr: Phenol-d6	13127-88-3	21.0	80.00	26.2	10-122	
Surr: Terphenyl-d14	1718-51-0	34.2	40.00	85.4	10-221	

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

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: 1304061-003B
Client Sample ID: 50' from N Boom / 4920508
Collection Date: 4/2/2013 1000h
Received Date: 4/2/2013 1400h

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

Analyzed: 4/8/2013 028h **Extracted:** 4/2/2013 1500h
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: 1304061-003B
Client Sample ID: 50' from N Boom / 4920508

Analyzed: 4/8/2013 028h **Extracted:** 4/2/2013 1500h
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: 1304061-003B
Client Sample ID: 50' from N Boom / 4920508

Analyzed: 4/8/2013 028h **Extracted:** 4/2/2013 1500h
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: 1304061-003B
Client Sample ID: 50' from N Boom / 4920508

Analyzed: 4/8/2013 028h **Extracted:** 4/2/2013 1500h
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: 1304061-003B
Client Sample ID: 50' from N Boom / 4920508

Analyzed: 4/8/2013 028h **Extracted:** 4/2/2013 1500h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8270D

Compound	CAS Number	Reporting Limit	Analytical Result	Qual

Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 2,4,6-Tribromophenol	118-79-6	61.9	80.00	77.4	14-159	
Surr: 2-Fluorobiphenyl	321-60-8	19.3	40.00	48.3	10-124	
Surr: 2-Fluorophenol	367-12-4	29.5	80.00	36.8	10-106	
Surr: Nitrobenzene-d5	4165-60-0	17.3	40.00	43.4	10-180	
Surr: Phenol-d6	13127-88-3	22.3	80.00	27.9	10-122	
Surr: Terphenyl-d14	1718-51-0	35.7	40.00	89.2	10-221	

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

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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: 1304061-004B
Client Sample ID: North Boom / 4920397
Collection Date: 4/2/2013 1010h
Received Date: 4/2/2013 1400h

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

Analyzed: 4/8/2013 052h **Extracted:** 4/2/2013 1500h
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: 1304061-004B
Client Sample ID: North Boom / 4920397

Analyzed: 4/8/2013 052h **Extracted:** 4/2/2013 1500h
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: 1304061-004B
Client Sample ID: North Boom / 4920397

Analyzed: 4/8/2013 052h **Extracted:** 4/2/2013 1500h
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: 1304061-004B
Client Sample ID: North Boom / 4920397

Analyzed: 4/8/2013 052h **Extracted:** 4/2/2013 1500h
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: 1304061-004B
Client Sample ID: North Boom / 4920397

Analyzed: 4/8/2013 052h **Extracted:** 4/2/2013 1500h
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	54.2	80.00	67.8	14-159	
Surr: 2-Fluorobiphenyl	321-60-8	17.1	40.00	42.7	10-124	
Surr: 2-Fluorophenol	367-12-4	28.0	80.00	34.9	10-106	
Surr: Nitrobenzene-d5	4165-60-0	16.7	40.00	41.8	10-180	
Surr: Phenol-d6	13127-88-3	21.5	80.00	26.8	10-122	
Surr: Terphenyl-d14	1718-51-0	32.1	40.00	80.2	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
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ORGANIC ANALYTICAL REPORT

Client: Utah Division of Water Quality **Contact:** Chris Bittner
Project: MP 44.9
Lab Sample ID: 1304061-005B
Client Sample ID: W. Boom 5 / 4920499
Collection Date: 4/2/2013 1020h
Received Date: 4/2/2013 1400h

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

Analyzed: 4/8/2013 115h **Extracted:** 4/2/2013 1500h
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: 1304061-005B
Client Sample ID: W. Boom 5 / 4920499

Analyzed: 4/8/2013 115h **Extracted:** 4/2/2013 1500h
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: 1304061-005B
Client Sample ID: W. Boom 5 / 4920499

Analyzed: 4/8/2013 115h **Extracted:** 4/2/2013 1500h
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: 1304061-005B
Client Sample ID: W. Boom 5 / 4920499

Analyzed: 4/8/2013 115h **Extracted:** 4/2/2013 1500h
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.

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

Lab Sample ID: 1304061-005B
Client Sample ID: W. Boom 5 / 4920499

Analyzed: 4/8/2013 115h **Extracted:** 4/2/2013 1500h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8270D

Compound	CAS Number	Reporting Limit	Analytical Result	Qual

Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 2,4,6-Tribromophenol	118-79-6	61.7	80.00	77.1	14-159	
Surr: 2-Fluorobiphenyl	321-60-8	19.4	40.00	48.5	10-124	
Surr: 2-Fluorophenol	367-12-4	29.7	80.00	37.1	10-106	
Surr: Nitrobenzene-d5	4165-60-0	17.1	40.00	42.9	10-180	
Surr: Phenol-d6	13127-88-3	23.2	80.00	29.0	10-122	
Surr: Terphenyl-d14	1718-51-0	36.2	40.00	90.5	10-221	

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

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: 1304061-006B
Client Sample ID: W. Boom 4 / 4920498
Collection Date: 4/2/2013 1030h
Received Date: 4/2/2013 1400h

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

Analyzed: 4/8/2013 139h **Extracted:** 4/2/2013 1500h
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: 1304061-006B
Client Sample ID: W. Boom 4 / 4920498

Analyzed: 4/8/2013 139h **Extracted:** 4/2/2013 1500h
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: 1304061-006B
Client Sample ID: W. Boom 4 / 4920498

Analyzed: 4/8/2013 139h **Extracted:** 4/2/2013 1500h
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: 1304061-006B
Client Sample ID: W. Boom 4 / 4920498

Analyzed: 4/8/2013 139h **Extracted:** 4/2/2013 1500h
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: 1304061-006B
Client Sample ID: W. Boom 4 / 4920498

Analyzed: 4/8/2013 139h **Extracted:** 4/2/2013 1500h
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	57.5	80.00	71.9	14-159	
Surr: 2-Fluorobiphenyl	321-60-8	17.6	40.00	44.0	10-124	
Surr: 2-Fluorophenol	367-12-4	26.9	80.00	33.6	10-106	
Surr: Nitrobenzene-d5	4165-60-0	15.8	40.00	39.5	10-180	
Surr: Phenol-d6	13127-88-3	20.5	80.00	25.6	10-122	
Surr: Terphenyl-d14	1718-51-0	36.6	40.00	91.6	10-221	

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

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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: 1304061-007B
Client Sample ID: 50' from WB 4 / 4920502
Collection Date: 4/2/2013 1040h
Received Date: 4/2/2013 1400h

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

Analyzed: 4/8/2013 202h **Extracted:** 4/2/2013 1500h
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: 1304061-007B
Client Sample ID: 50' from WB 4 / 4920502

Analyzed: 4/8/2013 202h **Extracted:** 4/2/2013 1500h
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: 1304061-007B
Client Sample ID: 50' from WB 4 / 4920502

Analyzed: 4/8/2013 202h **Extracted:** 4/2/2013 1500h
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: 1304061-007B
Client Sample ID: 50' from WB 4 / 4920502

Analyzed: 4/8/2013 202h **Extracted:** 4/2/2013 1500h
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: 1304061-007B
Client Sample ID: 50' from WB 4 / 4920502

Analyzed: 4/8/2013 202h **Extracted:** 4/2/2013 1500h
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	51.0	80.00	63.7	14-159	
Surr: 2-Fluorobiphenyl	321-60-8	17.1	40.00	42.8	10-124	
Surr: 2-Fluorophenol	367-12-4	26.1	80.00	32.6	10-106	
Surr: Nitrobenzene-d5	4165-60-0	13.2	40.00	33.0	10-180	
Surr: Phenol-d6	13127-88-3	20.4	80.00	25.5	10-122	
Surr: Terphenyl-d14	1718-51-0	34.9	40.00	87.2	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: 1304061-008B
Client Sample ID: W. Boom 3 / 4920497
Collection Date: 4/2/2013 1050h
Received Date: 4/2/2013 1400h

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

Analyzed: 4/8/2013 226h **Extracted:** 4/2/2013 1500h
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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Jose Rocha
QA Officer

Lab Sample ID: 1304061-008B
Client Sample ID: W. Boom 3 / 4920497

Analyzed: 4/8/2013 226h **Extracted:** 4/2/2013 1500h
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: 1304061-008B
Client Sample ID: W. Boom 3 / 4920497

Analyzed: 4/8/2013 226h **Extracted:** 4/2/2013 1500h
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: 1304061-008B
Client Sample ID: W. Boom 3 / 4920497

Analyzed: 4/8/2013 226h **Extracted:** 4/2/2013 1500h
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: 1304061-008B
Client Sample ID: W. Boom 3 / 4920497

Analyzed: 4/8/2013 226h **Extracted:** 4/2/2013 1500h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8270D

Compound	CAS Number	Reporting Limit	Analytical Result	Qual

Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 2,4,6-Tribromophenol	118-79-6	52.8	80.00	66.0	14-159	
Surr: 2-Fluorobiphenyl	321-60-8	17.3	40.00	43.3	10-124	
Surr: 2-Fluorophenol	367-12-4	25.8	80.00	32.3	10-106	
Surr: Nitrobenzene-d5	4165-60-0	15.2	40.00	38.0	10-180	
Surr: Phenol-d6	13127-88-3	19.8	80.00	24.8	10-122	
Surr: Terphenyl-d14	1718-51-0	32.0	40.00	80.1	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: 1304061-009B
Client Sample ID: W. Boom 2 / 4920496
Collection Date: 4/2/2013 1100h
Received Date: 4/2/2013 1400h

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

Analyzed: 4/8/2013 1424h **Extracted:** 4/2/2013 1500h
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: 1304061-009B
Client Sample ID: W. Boom 2 / 4920496

Analyzed: 4/8/2013 1424h **Extracted:** 4/2/2013 1500h
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: 1304061-009B
Client Sample ID: W. Boom 2 / 4920496

Analyzed: 4/8/2013 1424h **Extracted:** 4/2/2013 1500h
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: 1304061-009B
Client Sample ID: W. Boom 2 / 4920496

Analyzed: 4/8/2013 1424h **Extracted:** 4/2/2013 1500h
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: 1304061-009B
Client Sample ID: W. Boom 2 / 4920496

Analyzed: 4/8/2013 1424h **Extracted:** 4/2/2013 1500h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8270D

Compound	CAS Number	Reporting Limit	Analytical Result	Qual

Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 2,4,6-Tribromophenol	118-79-6	61.3	80.00	76.6	14-159	
Surr: 2-Fluorobiphenyl	321-60-8	21.2	40.00	53.0	10-124	
Surr: 2-Fluorophenol	367-12-4	29.6	80.00	37.0	10-106	
Surr: Nitrobenzene-d5	4165-60-0	15.2	40.00	38.1	10-180	
Surr: Phenol-d6	13127-88-3	24.1	80.00	30.2	10-122	
Surr: Terphenyl-d14	1718-51-0	39.8	40.00	99.5	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: 1304061-010B
Client Sample ID: 50' From WB1 / 4920505
Collection Date: 4/2/2013 1110h
Received Date: 4/2/2013 1400h

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

Analyzed: 4/8/2013 313h **Extracted:** 4/2/2013 1500h
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: 1304061-010B
Client Sample ID: 50' From WB1 / 4920505

Analyzed: 4/8/2013 313h **Extracted:** 4/2/2013 1500h
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: 1304061-010B
Client Sample ID: 50' From WB1 / 4920505

Analyzed: 4/8/2013 313h **Extracted:** 4/2/2013 1500h
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: 1304061-010B
Client Sample ID: 50' From WB1 / 4920505

Analyzed: 4/8/2013 313h **Extracted:** 4/2/2013 1500h
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: 1304061-010B
Client Sample ID: 50' From WB1 / 4920505

Analyzed: 4/8/2013 313h **Extracted:** 4/2/2013 1500h
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	55.5	80.00	69.4	14-159	
Surr: 2-Fluorobiphenyl	321-60-8	20.4	40.00	51.1	10-124	
Surr: 2-Fluorophenol	367-12-4	29.7	80.00	37.1	10-106	
Surr: Nitrobenzene-d5	4165-60-0	15.6	40.00	39.0	10-180	
Surr: Phenol-d6	13127-88-3	23.0	80.00	28.8	10-122	
Surr: Terphenyl-d14	1718-51-0	37.8	40.00	94.4	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: 1304061-011B
Client Sample ID: W. Boom 1 / 4920396
Collection Date: 4/2/2013 1120h
Received Date: 4/2/2013 1400h

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

Analyzed: 4/8/2013 640h **Extracted:** 4/2/2013 1500h
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: 1304061-011B
Client Sample ID: W. Boom 1 / 4920396

Analyzed: 4/8/2013 640h **Extracted:** 4/2/2013 1500h
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: 1304061-011B
Client Sample ID: W. Boom 1 / 4920396

Analyzed: 4/8/2013 640h **Extracted:** 4/2/2013 1500h
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: 1304061-011B
Client Sample ID: W. Boom 1 / 4920396

Analyzed: 4/8/2013 640h **Extracted:** 4/2/2013 1500h
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: 1304061-011B
Client Sample ID: W. Boom 1 / 4920396

Analyzed: 4/8/2013 640h **Extracted:** 4/2/2013 1500h
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	56.7	80.00	70.8	14-159	
Surr: 2-Fluorobiphenyl	321-60-8	23.8	40.00	59.6	10-124	
Surr: 2-Fluorophenol	367-12-4	27.0	80.00	33.7	10-106	
Surr: Nitrobenzene-d5	4165-60-0	16.9	40.00	42.2	10-180	
Surr: Phenol-d6	13127-88-3	21.5	80.00	26.9	10-122	
Surr: Terphenyl-d14	1718-51-0	39.6	40.00	99.1	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: 1304061-012B
Client Sample ID: East of Boom / 4920395
Collection Date: 4/2/2013 1145h
Received Date: 4/2/2013 1400h

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

Analyzed: 4/8/2013 704h **Extracted:** 4/2/2013 1500h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8270D

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Jose Rocha
QA Officer

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

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

Lab Sample ID: 1304061-012B
Client Sample ID: East of Boom / 4920395

Analyzed: 4/8/2013 704h **Extracted:** 4/2/2013 1500h
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: 1304061-012B
Client Sample ID: East of Boom / 4920395

Analyzed: 4/8/2013 704h **Extracted:** 4/2/2013 1500h
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: 1304061-012B
Client Sample ID: East of Boom / 4920395

Analyzed: 4/8/2013 704h **Extracted:** 4/2/2013 1500h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8270D

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Methapyrilene	91-80-5	10.0	< 10.0	
Methyl methanesulfonate	66-27-3	10.0	< 10.0	
n-Decane	124-18-5	10.0	< 10.0	
N-Nitrosodi-n-butylamine	924-16-3	10.0	< 10.0	
N-Nitrosodiethylamine	55-18-5	10.0	< 10.0	
N-Nitrosodimethylamine	62-75-9	10.0	< 10.0	
N-Nitrosodiphenylamine	86-30-6	10.0	< 10.0	
N-Nitrosodi-n-propylamine	621-64-7	10.0	< 10.0	
N-Nitrosomethylethylamine	10595-95-6	10.0	< 10.0	
N-Nitrosomorpholine	59-89-2	10.0	< 10.0	
N-Nitrosopiperidine	100-75-4	10.0	< 10.0	
N-Nitrosopyrrolidine	930-55-2	10.0	< 10.0	
n-Octadecane	593-45-3	10.0	**10.4**	
Naphthalene	91-20-3	10.0	< 10.0	
Nitrobenzene	98-95-3	10.0	< 10.0	
Nitroquinoline-1-oxide	56-57-5	10.0	< 10.0	
O,O,O-Triethyl phosphorothioate	126-68-1	10.0	< 10.0	
o-Toluidine	95-53-4	10.0	< 10.0	
Parathion	56-38-2	10.0	< 10.0	
Methyl parathion	298-00-0	10.0	< 10.0	
Pentachlorobenzene	608-93-5	10.0	< 10.0	
Pentachloronitrobenzene	82-68-8	10.0	< 10.0	
Pentachlorophenol	87-86-5	10.0	< 10.0	
Phenacetin	62-44-2	10.0	< 10.0	
Phenanthrene	85-01-8	10.0	< 10.0	
Phenol	108-95-2	10.0	< 10.0	
Phorate	298-02-2	10.0	< 10.0	
Pronamide	23950-58-5	10.0	< 10.0	
Pyrene	129-00-0	10.0	< 10.0	
Pyridine	110-86-1	10.0	< 10.0	
Quinoline	91-22-5	10.0	< 10.0	
Safrole	94-59-7	10.0	< 10.0	
Tetraethyl dithiopyrophosphate	3689-24-5	10.0	< 10.0	
Thionazin	297-97-2	10.0	< 10.0	
TIC: Eicosane	000112-95-8		5.72	JN

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Laboratory Director

Jose Rocha
QA Officer

Lab Sample ID: 1304061-012B
Client Sample ID: East of Boom / 4920395

Analyzed: 4/8/2013 704h **Extracted:** 4/2/2013 1500h
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	57.7	80.00	72.1	14-159	
Surr: 2-Fluorobiphenyl	321-60-8	16.8	40.00	41.9	10-124	
Surr: 2-Fluorophenol	367-12-4	24.0	80.00	30.0	10-106	
Surr: Nitrobenzene-d5	4165-60-0	14.4	40.00	35.9	10-180	
Surr: Phenol-d6	13127-88-3	19.1	80.00	23.9	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.

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: 1304061-013B
Client Sample ID: Between Weirs / 4920394
Collection Date: 4/2/2013 1200h
Received Date: 4/2/2013 1400h

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

Analyzed: 4/8/2013 727h **Extracted:** 4/2/2013 1500h
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: 1304061-013B
Client Sample ID: Between Weirs / 4920394

Analyzed: 4/8/2013 727h **Extracted:** 4/2/2013 1500h
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: 1304061-013B
Client Sample ID: Between Weirs / 4920394

Analyzed: 4/8/2013 727h **Extracted:** 4/2/2013 1500h
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: 1304061-013B
Client Sample ID: Between Weirs / 4920394

Analyzed: 4/8/2013 727h **Extracted:** 4/2/2013 1500h
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	**48.1**	
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: Eicosane	000112-95-8		24.7	JN

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

Lab Sample ID: 1304061-013B
Client Sample ID: Between Weirs / 4920394

Analyzed: 4/8/2013 727h **Extracted:** 4/2/2013 1500h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8270D

Compound	CAS Number	Reporting Limit	Analytical Result	Qual

Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 2,4,6-Tribromophenol	118-79-6	60.1	80.00	75.2	14-159	
Surr: 2-Fluorobiphenyl	321-60-8	19.6	40.00	48.9	10-124	
Surr: 2-Fluorophenol	367-12-4	24.5	80.00	30.6	10-106	
Surr: Nitrobenzene-d5	4165-60-0	15.9	40.00	39.8	10-180	
Surr: Phenol-d6	13127-88-3	20.1	80.00	25.2	10-122	
Surr: Terphenyl-d14	1718-51-0	40.3	40.00	101	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: 1304061-014B
Client Sample ID: Between Weirs Dup / 4920394
Collection Date: 4/2/2013 1210h
Received Date: 4/2/2013 1400h

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

Analyzed: 4/8/2013 750h **Extracted:** 4/2/2013 1500h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8270D

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

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Lab Sample ID: 1304061-014B
Client Sample ID: Between Weirs Dup / 4920394

Analyzed: 4/8/2013 750h **Extracted:** 4/2/2013 1500h
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: 1304061-014B
Client Sample ID: Between Weirs Dup / 4920394

Analyzed: 4/8/2013 750h **Extracted:** 4/2/2013 1500h
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
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Lab Sample ID: 1304061-014B
Client Sample ID: Between Weirs Dup / 4920394

Analyzed: 4/8/2013 750h **Extracted:** 4/2/2013 1500h
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	**44.5**	
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: Eicosane	000112-95-8		24.4	JN

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Lab Sample ID: 1304061-014B
Client Sample ID: Between Weirs Dup / 4920394

Analyzed: 4/8/2013 750h **Extracted:** 4/2/2013 1500h
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	62.9	80.00	78.6	14-159	
Surr: 2-Fluorobiphenyl	321-60-8	16.7	40.00	41.7	10-124	
Surr: 2-Fluorophenol	367-12-4	24.7	80.00	30.8	10-106	
Surr: Nitrobenzene-d5	4165-60-0	14.7	40.00	36.7	10-180	
Surr: Phenol-d6	13127-88-3	20.0	80.00	24.9	10-122	
Surr: Terphenyl-d14	1718-51-0	36.8	40.00	92.1	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: 1304061-017B
Client Sample ID: French Drain / 4920398
Collection Date: 4/2/2013 1200h
Received Date: 4/2/2013 1400h

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

Analyzed: 4/8/2013 813h **Extracted:** 4/2/2013 1500h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8270D

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Jose Rocha
QA Officer

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

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

Lab Sample ID: 1304061-017B
Client Sample ID: French Drain / 4920398

Analyzed: 4/8/2013 813h **Extracted:** 4/2/2013 1500h
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: 1304061-017B
Client Sample ID: French Drain / 4920398

Analyzed: 4/8/2013 813h **Extracted:** 4/2/2013 1500h
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	
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Jose Rocha
QA Officer

Lab Sample ID: 1304061-017B
Client Sample ID: French Drain / 4920398

Analyzed: 4/8/2013 813h **Extracted:** 4/2/2013 1500h
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: As-hydrindacene-1-on	042981-70-4		4.90	JN
TIC: Benzofuran-2-one, 3-methyl-3-aza…	1000289-12-2		4.20	JN

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

Lab Sample ID: 1304061-017B
Client Sample ID: French Drain / 4920398

Analyzed: 4/8/2013 813h **Extracted:** 4/2/2013 1500h
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	64.8	80.00	80.9	14-159	
Surr: 2-Fluorobiphenyl	321-60-8	15.3	40.00	38.2	10-124	
Surr: 2-Fluorophenol	367-12-4	26.9	80.00	33.7	10-106	
Surr: Nitrobenzene-d5	4165-60-0	15.0	40.00	37.4	10-180	
Surr: Phenol-d6	13127-88-3	22.7	80.00	28.4	10-122	
Surr: Terphenyl-d14	1718-51-0	34.8	40.00	87.1	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: 1304061-001A
Client Sample ID: East of I-15 / 4920392
Collection Date: 4/2/2013 830h
Received Date: 4/2/2013 1400h

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

Analyzed: 4/2/2013 1804h
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: 1304061-001A
Client Sample ID: East of I-15 / 4920392

Analyzed: 4/2/2013 1804h
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: 1304061-001A
Client Sample ID: East of I-15 / 4920392

Analyzed: 4/2/2013 1804h
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: 1304061-001A
Client Sample ID: East of I-15 / 4920392

Analyzed: 4/2/2013 1804h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8260C

Compound	CAS Number	Reporting Limit	Analytical Result	Qual

Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	59.0	50.00	118	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	51.0	50.00	102	80-128	
Surr: Dibromofluoromethane	1868-53-7	49.7	50.00	99.3	80-124	
Surr: Toluene-d8	2037-26-5	48.6	50.00	97.1	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: 1304061-002A
Client Sample ID: S. Marina / 4920495
Collection Date: 4/2/2013 900h
Received Date: 4/2/2013 1400h

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

Analyzed: 4/2/2013 1920h
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: 1304061-002A
Client Sample ID: S. Marina / 4920495

Analyzed: 4/2/2013 1920h
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: 1304061-002A
Client Sample ID: S. Marina / 4920495

Analyzed: 4/2/2013 1920h
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: 1304061-002A
Client Sample ID: S. Marina / 4920495

Analyzed: 4/2/2013 1920h
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	57.5	50.00	115	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	49.4	50.00	98.8	80-128	
Surr: Dibromofluoromethane	1868-53-7	51.0	50.00	102	80-124	
Surr: Toluene-d8	2037-26-5	46.9	50.00	93.9	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
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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: 1304061-003A
Client Sample ID: 50' from N Boom / 4920508
Collection Date: 4/2/2013 1000h
Received Date: 4/2/2013 1400h

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

Analyzed: 4/2/2013 1939h
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	

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: 1304061-003A
Client Sample ID: 50' from N Boom / 4920508

Analyzed: 4/2/2013 1939h
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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Jose Rocha
QA Officer

Lab Sample ID: 1304061-003A
Client Sample ID: 50' from N Boom / 4920508

Analyzed: 4/2/2013 1939h
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.

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Laboratory Director

Jose Rocha
QA Officer

Lab Sample ID: 1304061-003A
Client Sample ID: 50' from N Boom / 4920508

Analyzed: 4/2/2013 1939h
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	50.0	50.00	100	80-128	
Surr: Dibromofluoromethane	1868-53-7	48.5	50.00	97.1	80-124	
Surr: Toluene-d8	2037-26-5	46.7	50.00	93.5	77-129	

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

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: 1304061-004A
Client Sample ID: North Boom / 4920397
Collection Date: 4/2/2013 1010h
Received Date: 4/2/2013 1400h

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

Analyzed: 4/2/2013 1958h
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	

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
QA Officer

Lab Sample ID: 1304061-004A
Client Sample ID: North Boom / 4920397

Analyzed: 4/2/2013 1958h
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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Laboratory Director

Jose Rocha
QA Officer

Lab Sample ID: 1304061-004A
Client Sample ID: North Boom / 4920397

Analyzed: 4/2/2013 1958h
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: 1304061-004A
Client Sample ID: North Boom / 4920397

Analyzed: 4/2/2013 1958h
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	57.1	50.00	114	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	49.6	50.00	99.2	80-128	
Surr: Dibromofluoromethane	1868-53-7	51.3	50.00	103	80-124	
Surr: Toluene-d8	2037-26-5	46.9	50.00	93.8	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: 1304061-005A
Client Sample ID: W. Boom 5 / 4920499
Collection Date: 4/2/2013 1020h
Received Date: 4/2/2013 1400h

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

Analyzed: 4/2/2013 2017h
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: 1304061-005A
Client Sample ID: W. Boom 5 / 4920499

Analyzed: 4/2/2013 2017h
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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Jose Rocha
QA Officer

Lab Sample ID: 1304061-005A
Client Sample ID: W. Boom 5 / 4920499

Analyzed: 4/2/2013 2017h
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: 1304061-005A
Client Sample ID: W. Boom 5 / 4920499

Analyzed: 4/2/2013 2017h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8260C

Compound	CAS Number	Reporting Limit	Analytical Result	Qual

Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	58.4	50.00	117	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	50.5	50.00	101	80-128	
Surr: Dibromofluoromethane	1868-53-7	50.0	50.00	100	80-124	
Surr: Toluene-d8	2037-26-5	47.7	50.00	95.4	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: 1304061-006A
Client Sample ID: W. Boom 4 / 4920498
Collection Date: 4/2/2013 1030h
Received Date: 4/2/2013 1400h

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

Analyzed: 4/2/2013 2036h
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
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Jose Rocha
QA Officer

Lab Sample ID: 1304061-006A
Client Sample ID: W. Boom 4 / 4920498

Analyzed: 4/2/2013 2036h
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: 1304061-006A
Client Sample ID: W. Boom 4 / 4920498

Analyzed: 4/2/2013 2036h
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: 1304061-006A
Client Sample ID: W. Boom 4 / 4920498

Analyzed: 4/2/2013 2036h
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	57.1	50.00	114	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	50.1	50.00	100	80-128	
Surr: Dibromofluoromethane	1868-53-7	51.1	50.00	102	80-124	
Surr: Toluene-d8	2037-26-5	47.0	50.00	94.0	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
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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: 1304061-007A
Client Sample ID: 50' from WB 4 / 4920502
Collection Date: 4/2/2013 1040h
Received Date: 4/2/2013 1400h

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

Analyzed: 4/2/2013 2055h
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: 1304061-007A
Client Sample ID: 50' from WB 4 / 4920502

Analyzed: 4/2/2013 2055h
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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Jose Rocha
QA Officer

Lab Sample ID: 1304061-007A
Client Sample ID: 50' from WB 4 / 4920502

Analyzed: 4/2/2013 2055h
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: 1304061-007A
Client Sample ID: 50' from WB 4 / 4920502

Analyzed: 4/2/2013 2055h
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	49.3	50.00	98.6	80-128	
Surr: Dibromofluoromethane	1868-53-7	51.5	50.00	103	80-124	
Surr: Toluene-d8	2037-26-5	47.2	50.00	94.4	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: 1304061-008A
Client Sample ID: W. Boom 3 / 4920497
Collection Date: 4/2/2013 1050h
Received Date: 4/2/2013 1400h

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

Analyzed: 4/2/2013 2114h
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: 1304061-008A
Client Sample ID: W. Boom 3 / 4920497

Analyzed: 4/2/2013 2114h
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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Laboratory Director

Jose Rocha
QA Officer

Lab Sample ID: 1304061-008A
Client Sample ID: W. Boom 3 / 4920497

Analyzed: 4/2/2013 2114h
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: 1304061-008A
Client Sample ID: W. Boom 3 / 4920497

Analyzed: 4/2/2013 2114h
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	57.8	50.00	116	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	51.1	50.00	102	80-128	
Surr: Dibromofluoromethane	1868-53-7	49.2	50.00	98.3	80-124	
Surr: Toluene-d8	2037-26-5	47.6	50.00	95.2	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: 1304061-009A
Client Sample ID: W. Boom 2 / 4920496
Collection Date: 4/2/2013 1100h
Received Date: 4/2/2013 1400h

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

Analyzed: 4/2/2013 2133h
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: 1304061-009A
Client Sample ID: W. Boom 2 / 4920496

Analyzed: 4/2/2013 2133h
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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Laboratory Director

Jose Rocha
QA Officer

Lab Sample ID: 1304061-009A
Client Sample ID: W. Boom 2 / 4920496

Analyzed: 4/2/2013 2133h
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: 1304061-009A
Client Sample ID: W. Boom 2 / 4920496

Analyzed: 4/2/2013 2133h
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	57.1	50.00	114	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	49.2	50.00	98.5	80-128	
Surr: Dibromofluoromethane	1868-53-7	48.5	50.00	97.1	80-124	
Surr: Toluene-d8	2037-26-5	46.7	50.00	93.3	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: 1304061-010A
Client Sample ID: 50' From WB1 / 4920505
Collection Date: 4/2/2013 1110h
Received Date: 4/2/2013 1400h

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

Analyzed: 4/2/2013 2152h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8260C

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Kyle F. Gross
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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: 1304061-010A
Client Sample ID: 50' From WB1 / 4920505

Analyzed: 4/2/2013 2152h
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: 1304061-010A
Client Sample ID: 50' From WB1 / 4920505

Analyzed: 4/2/2013 2152h
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: 1304061-010A
Client Sample ID: 50' From WB1 / 4920505

Analyzed: 4/2/2013 2152h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8260C

Compound	CAS Number	Reporting Limit	Analytical Result	Qual

Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	59.2	50.00	118	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	51.1	50.00	102	80-128	
Surr: Dibromofluoromethane	1868-53-7	50.2	50.00	100	80-124	
Surr: Toluene-d8	2037-26-5	48.1	50.00	96.2	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: 1304061-011A
Client Sample ID: W. Boom 1 / 4920396
Collection Date: 4/2/2013 1120h
Received Date: 4/2/2013 1400h

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

Analyzed: 4/2/2013 2211h
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: 1304061-011A
Client Sample ID: W. Boom 1 / 4920396

Analyzed: 4/2/2013 2211h
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: 1304061-011A
Client Sample ID: W. Boom 1 / 4920396

Analyzed: 4/2/2013 2211h
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: 1304061-011A
Client Sample ID: W. Boom 1 / 4920396

Analyzed: 4/2/2013 2211h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8260C

Compound	CAS Number	Reporting Limit	Analytical Result	Qual

Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	58.9	50.00	118	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	50.7	50.00	101	80-128	
Surr: Dibromofluoromethane	1868-53-7	50.0	50.00	100	80-124	
Surr: Toluene-d8	2037-26-5	48.2	50.00	96.5	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: 1304061-012A
Client Sample ID: East of Boom / 4920395
Collection Date: 4/2/2013 1145h
Received Date: 4/2/2013 1400h

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

Analyzed: 4/2/2013 2230h
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	**2.36**	
1,2,4-Trichlorobenzene	120-82-1	2.00	< 2.00	
1,2,4-Trimethylbenzene	95-63-6	2.00	**2.19**	
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: 1304061-012A
Client Sample ID: East of Boom / 4920395

Analyzed: 4/2/2013 2230h
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: 1304061-012A
Client Sample ID: East of Boom / 4920395

Analyzed: 4/2/2013 2230h
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	**2.73**	

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Lab Sample ID: 1304061-012A
Client Sample ID: East of Boom / 4920395

Analyzed: 4/2/2013 2230h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8260C

Compound	CAS Number	Reporting Limit	Analytical Result	Qual

Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	58.0	50.00	116	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	48.7	50.00	97.4	80-128	
Surr: Dibromofluoromethane	1868-53-7	49.3	50.00	98.5	80-124	
Surr: Toluene-d8	2037-26-5	47.8	50.00	95.5	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: 1304061-013A
Client Sample ID: Between Weirs / 4920394
Collection Date: 4/2/2013 1200h
Received Date: 4/2/2013 1400h

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

Analyzed: 4/2/2013 2249h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8260C

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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	**2.32**	
1,2,4-Trichlorobenzene	120-82-1	2.00	< 2.00	
1,2,4-Trimethylbenzene	95-63-6	2.00	**3.01**	
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: 1304061-013A
Client Sample ID: Between Weirs / 4920394

Analyzed: 4/2/2013 2249h
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: 1304061-013A
Client Sample ID: Between Weirs / 4920394

Analyzed: 4/2/2013 2249h
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: 1304061-013A
Client Sample ID: Between Weirs / 4920394

Analyzed: 4/2/2013 2249h
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	56.7	50.00	113	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	49.3	50.00	98.7	80-128	
Surr: Dibromofluoromethane	1868-53-7	48.6	50.00	97.3	80-124	
Surr: Toluene-d8	2037-26-5	47.3	50.00	94.6	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: 1304061-014A
Client Sample ID: Between Weirs Dup / 4920394
Collection Date: 4/2/2013 1210h
Received Date: 4/2/2013 1400h

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

Analyzed: 4/2/2013 2308h
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	**2.40**	
1,2,4-Trichlorobenzene	120-82-1	2.00	< 2.00	
1,2,4-Trimethylbenzene	95-63-6	2.00	**3.27**	
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: 1304061-014A
Client Sample ID: Between Weirs Dup / 4920394

Analyzed: 4/2/2013 2308h
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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ANALYTICAL LABORATORIES

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Salt Lake City, UT 84115

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

Lab Sample ID: 1304061-014A
Client Sample ID: Between Weirs Dup / 4920394

Analyzed: 4/2/2013 2308h
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: 1304061-014A
Client Sample ID: Between Weirs Dup / 4920394

Analyzed: 4/2/2013 2308h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8260C

Compound	CAS Number	Reporting Limit	Analytical Result	Qual

Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	53.9	50.00	108	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	49.9	50.00	99.8	80-128	
Surr: Dibromofluoromethane	1868-53-7	47.7	50.00	95.4	80-124	
Surr: Toluene-d8	2037-26-5	48.4	50.00	96.8	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: 1304061-015A
Client Sample ID: Field Blank
Collection Date: 4/2/2013 1230h
Received Date: 4/2/2013 1400h

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

Analyzed: 4/3/2013 1033h
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: 1304061-015A
Client Sample ID: Field Blank

Analyzed: 4/3/2013 1033h
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
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Lab Sample ID: 1304061-015A
Client Sample ID: Field Blank

Analyzed: 4/3/2013 1033h
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	**2.48**	
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: 1304061-015A
Client Sample ID: Field Blank

Analyzed: 4/3/2013 1033h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8260C

Compound	CAS Number	Reporting Limit	Analytical Result	Qual

Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	59.2	50.00	118	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	50.9	50.00	102	80-128	
Surr: Dibromofluoromethane	1868-53-7	51.2	50.00	102	80-124	
Surr: Toluene-d8	2037-26-5	48.9	50.00	97.7	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

Client: Utah Division of Water Quality **Contact:** Chris Bittner
Project: MP 44.9
Lab Sample ID: 1304061-016A
Client Sample ID: Trip Blank
Collection Date: 4/2/2013
Received Date: 4/2/2013 1400h

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

Analyzed: 4/2/2013 1745h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8260C

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

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QA Officer

Lab Sample ID: 1304061-016A
Client Sample ID: Trip Blank

Analyzed: 4/2/2013 1745h
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: 1304061-016A
Client Sample ID: Trip Blank

Analyzed: 4/2/2013 1745h
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: 1304061-016A
Client Sample ID: Trip Blank

Analyzed: 4/2/2013 1745h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8260C

Compound	CAS Number	Reporting Limit	Analytical Result	Qual

Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	58.0	50.00	116	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	50.8	50.00	102	80-128	
Surr: Dibromofluoromethane	1868-53-7	50.2	50.00	100	80-124	
Surr: Toluene-d8	2037-26-5	47.8	50.00	95.6	77-129	

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

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ORGANIC ANALYTICAL REPORT

Client: Utah Division of Water Quality **Contact:** Chris Bittner
Project: MP 44.9
Lab Sample ID: 1304061-017A
Client Sample ID: French Drain / 4920398
Collection Date: 4/2/2013 1200h
Received Date: 4/2/2013 1400h

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

Analyzed: 4/2/2013 2327h
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	**61.4**	
1,2,4-Trichlorobenzene	120-82-1	2.00	< 2.00	
1,2,4-Trimethylbenzene	95-63-6	2.00	**4.95**	
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: 1304061-017A
Client Sample ID: French Drain / 4920398

Analyzed: 4/2/2013 2327h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8260C

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
4-Isopropyltoluene	99-87-6	2.00	**6.28**	
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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Laboratory Director

Jose Rocha
QA Officer

Lab Sample ID: 1304061-017A
Client Sample ID: French Drain / 4920398

Analyzed: 4/2/2013 2327h
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	**13.3**	
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	**2.05**	
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	**6.75**	
o-Xylene	95-47-6	2.00	**45.0**	
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	**3.57**	
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	**58.3**	

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Lab Sample ID: 1304061-017A
Client Sample ID: French Drain / 4920398

Analyzed: 4/2/2013 2327h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8260C

Compound	CAS Number	Reporting Limit	Analytical Result	Qual

Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	52.9	50.00	106	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	49.5	50.00	98.9	80-128	
Surr: Dibromofluoromethane	1868-53-7	48.4	50.00	96.9	80-124	
Surr: Toluene-d8	2037-26-5	48.5	50.00	97.0	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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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

QC SUMMARY REPORT

Client: Utah Division of Water Quality
Lab Set ID: 1304061
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-24541	Diesel Range Organics (DRO) (C10-C28)	mg/L	SW8015D	1.45	2.000	0	72.5	48-118				4/2/2013 2234h
LCS-24541	Surr: 4-Bromofluorobenzene	%REC	SW8015D	0.199	0.4000		49.6	18-95				4/2/2013 2234h

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Laboratory Director

Jose Rocha
QA Officer

QC SUMMARY REPORT

Client: Utah Division of Water Quality
Lab Set ID: 1304061
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-24541	Diesel Range Organics (DRO) (C10-C28)	mg/L	SW8015D	< 0.500				-				4/2/2013 2215h
MB-24541	Surr: 4-Bromofluorobenzene	%REC	SW8015D	0.197	0.4000		49.3	18-95				4/2/2013 2215h

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

QC SUMMARY REPORT

Client: Utah Division of Water Quality
Lab Set ID: 1304061
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
1304020-014CMS	Diesel Range Organics (DRO) (C10-C28)	mg/L	SW8015D	5.10	2.000	3.476	81.1	60-161				4/2/2013 2332h
1304020-014CMS	Surr: 4-Bromofluorobenzene	%REC	SW8015D	0.214	0.4000		53.5	10-190				4/2/2013 2332h

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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: 1304061
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
1304020-014CMSD	Diesel Range Organics (DRO) (C10-C28)	mg/L	SW8015D	4.87	2.000	3.476	69.7	60-161	4.55	25		4/2/2013 2351h
1304020-014CMSD	Surr: 4-Bromofluorobenzene	%REC	SW8015D	0.221	0.4000		55.3	10-190				4/2/2013 2351h

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

QC SUMMARY REPORT

Client: Utah Division of Water Quality
Lab Set ID: 1304061
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-24550	1,2,4-Trichlorobenzene	µg/L	SW8270D	46.4	80.00	0	58.0	10-104				4/7/2013 2231h
LCS-24550	1,4-Dichlorobenzene	µg/L	SW8270D	35.7	80.00	0	44.6	10-118				4/7/2013 2231h
LCS-24550	2,4,6-Trichlorophenol	µg/L	SW8270D	75.6	80.00	0	94.5	17-119				4/7/2013 2231h
LCS-24550	2,4-Dimethylphenol	µg/L	SW8270D	64.2	80.00	0	80.3	10-131				4/7/2013 2231h
LCS-24550	2,4-Dinitrotoluene	µg/L	SW8270D	72.8	80.00	0	91.0	42-219				4/7/2013 2231h
LCS-24550	2-Chloronaphthalene	µg/L	SW8270D	53.4	80.00	0	66.8	23-126				4/7/2013 2231h
LCS-24550	2-Chlorophenol	µg/L	SW8270D	52.5	80.00	0	65.6	15-128				4/7/2013 2231h
LCS-24550	4,6-Dinitro-2-methylphenol	µg/L	SW8270D	75.8	80.00	0	94.7	30-198				4/7/2013 2231h
LCS-24550	4-Chloro-3-methylphenol	µg/L	SW8270D	74.3	80.00	0	92.9	29-148				4/7/2013 2231h
LCS-24550	4-Nitrophenol	µg/L	SW8270D	32.9	80.00	0	41.1	10-157				4/7/2013 2231h
LCS-24550	Acenaphthene	µg/L	SW8270D	66.4	80.00	0	83.0	20-116				4/7/2013 2231h
LCS-24550	Benzo(a)pyrene	µg/L	SW8270D	76.4	80.00	0	95.4	10-221				4/7/2013 2231h
LCS-24550	N-Nitrosodi-n-propylamine	µg/L	SW8270D	54.2	80.00	0	67.7	20-148				4/7/2013 2231h
LCS-24550	Pentachlorophenol	µg/L	SW8270D	81.7	80.00	0	102	21-153				4/7/2013 2231h
LCS-24550	Phenol	µg/L	SW8270D	33.5	80.00	0	41.8	10-131				4/7/2013 2231h
LCS-24550	Pyrene	µg/L	SW8270D	74.1	80.00	0	92.6	37-150				4/7/2013 2231h
LCS-24550	Surr: 2,4,6-Tribromophenol	%REC	SW8270D	87.9	80.00		110	10-165				4/7/2013 2231h
LCS-24550	Surr: 2-Fluorobiphenyl	%REC	SW8270D	29.4	40.00		73.5	10-118				4/7/2013 2231h
LCS-24550	Surr: 2-Fluorophenol	%REC	SW8270D	33.9	80.00		42.3	10-121				4/7/2013 2231h
LCS-24550	Surr: Nitrobenzene-d5	%REC	SW8270D	24.2	40.00		60.6	10-127				4/7/2013 2231h
LCS-24550	Surr: Phenol-d6	%REC	SW8270D	28.7	80.00		35.8	10-124				4/7/2013 2231h
LCS-24550	Surr: Terphenyl-d14	%REC	SW8270D	38.9	40.00		97.4	51-221				4/7/2013 2231h
LCS-24550	Acenaphthene	µg/L	SW8270D	59.0	80.00	0	73.8	23-159				4/7/2013 1804h
LCS-24550	Benzo(a)pyrene	µg/L	SW8270D	73.8	80.00	0	92.3	26-223				4/7/2013 1804h
LCS-24550	Pentachlorophenol	µg/L	SW8270D	131	80.00	0	164	10-249				4/7/2013 1804h
LCS-24550	Pyrene	µg/L	SW8270D	71.2	80.00	0	89.0	28-204				4/7/2013 1804h

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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: 1304061
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-24550	1,1´-Biphenyl	µg/L	SW8270D	< 10.0				-				4/7/2013 2208h
MB-24550	1,2,4,5-Tetrachlorobenzene	µg/L	SW8270D	< 10.0				-				4/7/2013 2208h
MB-24550	1,2,4-Trichlorobenzene	µg/L	SW8270D	< 10.0				-				4/7/2013 2208h
MB-24550	1,2-Dichlorobenzene	µg/L	SW8270D	< 10.0				-				4/7/2013 2208h
MB-24550	1,3,5-Trinitrobenzene	µg/L	SW8270D	< 10.0				-				4/7/2013 2208h
MB-24550	1,3-Dichlorobenzene	µg/L	SW8270D	< 10.0				-				4/7/2013 2208h
MB-24550	1,3-Dinitrobenzene	µg/L	SW8270D	< 10.0				-				4/7/2013 2208h
MB-24550	1,4-Dichlorobenzene	µg/L	SW8270D	< 10.0				-				4/7/2013 2208h
MB-24550	1,4-Dinitrobenzene	µg/L	SW8270D	< 10.0				-				4/7/2013 2208h
MB-24550	1,4-Naphthoquinone	µg/L	SW8270D	< 10.0				-				4/7/2013 2208h
MB-24550	1,4-Phenylenediamine	µg/L	SW8270D	< 10.0				-				4/7/2013 2208h
MB-24550	1-Chloronaphthalene	µg/L	SW8270D	< 10.0				-				4/7/2013 2208h
MB-24550	1-Methylnaphthalene	µg/L	SW8270D	< 10.0				-				4/7/2013 2208h
MB-24550	1-Naphthylamine	µg/L	SW8270D	< 10.0				-				4/7/2013 2208h
MB-24550	2,3,4,6-Tetrachlorophenol	µg/L	SW8270D	< 10.0				-				4/7/2013 2208h
MB-24550	2,4,5-Trichlorophenol	µg/L	SW8270D	< 10.0				-				4/7/2013 2208h
MB-24550	2,4,6-Trichlorophenol	µg/L	SW8270D	< 10.0				-				4/7/2013 2208h
MB-24550	2,4-Dichlorophenol	µg/L	SW8270D	< 10.0				-				4/7/2013 2208h
MB-24550	2,4-Dimethylphenol	µg/L	SW8270D	< 10.0				-				4/7/2013 2208h
MB-24550	2,4-Dinitrophenol	µg/L	SW8270D	< 10.0				-				4/7/2013 2208h
MB-24550	2,4-Dinitrotoluene	µg/L	SW8270D	< 10.0				-				4/7/2013 2208h
MB-24550	2,6-Dichlorophenol	µg/L	SW8270D	< 10.0				-				4/7/2013 2208h
MB-24550	2,6-Dinitrotoluene	µg/L	SW8270D	< 10.0				-				4/7/2013 2208h
MB-24550	2-Acetylaminofluorene	µg/L	SW8270D	< 10.0				-				4/7/2013 2208h
MB-24550	2-Chloronaphthalene	µg/L	SW8270D	< 10.0				-				4/7/2013 2208h
MB-24550	2-Chlorophenol	µg/L	SW8270D	< 10.0				-				4/7/2013 2208h
MB-24550	2-Methylnaphthalene	µg/L	SW8270D	< 10.0				-				4/7/2013 2208h

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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: 1304061
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-24550	2-Methylphenol	µg/L	SW8270D	< 10.0				-				4/7/2013 2208h
MB-24550	2-Naphthylamine	µg/L	SW8270D	< 10.0				-				4/7/2013 2208h
MB-24550	2-Nitroaniline	µg/L	SW8270D	< 10.0				-				4/7/2013 2208h
MB-24550	2-Nitrophenol	µg/L	SW8270D	< 10.0				-				4/7/2013 2208h
MB-24550	2-Picoline	µg/L	SW8270D	< 10.0				-				4/7/2013 2208h
MB-24550	3&4-Methylphenol	µg/L	SW8270D	< 10.0				-				4/7/2013 2208h
MB-24550	3,3´-Dichlorobenzidine	µg/L	SW8270D	< 10.0				-				4/7/2013 2208h
MB-24550	3,3´-Dimethylbenzidine	µg/L	SW8270D	< 10.0				-				4/7/2013 2208h
MB-24550	3-Methylcholanthrene	µg/L	SW8270D	< 10.0				-				4/7/2013 2208h
MB-24550	3-Nitroaniline	µg/L	SW8270D	< 10.0				-				4/7/2013 2208h
MB-24550	4,6-Dinitro-2-methylphenol	µg/L	SW8270D	< 10.0				-				4/7/2013 2208h
MB-24550	4-Aminobiphenyl	µg/L	SW8270D	< 10.0				-				4/7/2013 2208h
MB-24550	4-Bromophenyl phenyl ether	µg/L	SW8270D	< 10.0				-				4/7/2013 2208h
MB-24550	4-Chloro-3-methylphenol	µg/L	SW8270D	< 10.0				-				4/7/2013 2208h
MB-24550	4-Chloroaniline	µg/L	SW8270D	< 10.0				-				4/7/2013 2208h
MB-24550	4-Chlorophenyl phenyl ether	µg/L	SW8270D	< 10.0				-				4/7/2013 2208h
MB-24550	4-Nitroaniline	µg/L	SW8270D	< 10.0				-				4/7/2013 2208h
MB-24550	4-Nitrophenol	µg/L	SW8270D	< 10.0				-				4/7/2013 2208h
MB-24550	5-Nitro-o-toluidine	µg/L	SW8270D	< 10.0				-				4/7/2013 2208h
MB-24550	7,12-Dimethylbenz(a)anthracene	µg/L	SW8270D	< 10.0				-				4/7/2013 2208h
MB-24550	a,a-Dimethylphenethylamine	µg/L	SW8270D	< 10.0				-				4/7/2013 2208h
MB-24550	Acenaphthene	µg/L	SW8270D	< 10.0				-				4/7/2013 2208h
MB-24550	Acenaphthylene	µg/L	SW8270D	< 10.0				-				4/7/2013 2208h
MB-24550	Acetophenone	µg/L	SW8270D	< 10.0				-				4/7/2013 2208h
MB-24550	alpha-Terpineol	µg/L	SW8270D	< 10.0				-				4/7/2013 2208h
MB-24550	Aniline	µg/L	SW8270D	< 10.0				-				4/7/2013 2208h
MB-24550	Anthracene	µg/L	SW8270D	< 10.0				-				4/7/2013 2208h

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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: 1304061
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-24550	Aramite	µg/L	SW8270D	< 10.0				-				4/7/2013 2208h
MB-24550	Atrazine	µg/L	SW8270D	< 10.0				-				4/7/2013 2208h
MB-24550	Azobenzene	µg/L	SW8270D	< 10.0				-				4/7/2013 2208h
MB-24550	Benz(a)anthracene	µg/L	SW8270D	< 10.0				-				4/7/2013 2208h
MB-24550	Benzaldehyde	µg/L	SW8270D	< 10.0				-				4/7/2013 2208h
MB-24550	Benzidine	µg/L	SW8270D	< 10.0				-				4/7/2013 2208h
MB-24550	Benzo(a)pyrene	µg/L	SW8270D	< 10.0				-				4/7/2013 2208h
MB-24550	Benzo(b)fluoranthene	µg/L	SW8270D	< 10.0				-				4/7/2013 2208h
MB-24550	Benzo(g,h,i)perylene	µg/L	SW8270D	< 10.0				-				4/7/2013 2208h
MB-24550	Benzo(k)fluoranthene	µg/L	SW8270D	< 10.0				-				4/7/2013 2208h
MB-24550	Benzoic acid	µg/L	SW8270D	< 20.0				-				4/7/2013 2208h
MB-24550	Benzyl alcohol	µg/L	SW8270D	< 10.0				-				4/7/2013 2208h
MB-24550	Bis(2-chloroethoxy)methane	µg/L	SW8270D	< 10.0				-				4/7/2013 2208h
MB-24550	Bis(2-chloroethyl) ether	µg/L	SW8270D	< 10.0				-				4/7/2013 2208h
MB-24550	Bis(2-chloroisopropyl) ether	µg/L	SW8270D	< 10.0				-				4/7/2013 2208h
MB-24550	Bis(2-ethylhexyl) phthalate	µg/L	SW8270D	< 10.0				-				4/7/2013 2208h
MB-24550	bis(2-ethylhexyl)adipate	µg/L	SW8270D	< 10.0				-				4/7/2013 2208h
MB-24550	Butyl benzyl phthalate	µg/L	SW8270D	< 10.0				-				4/7/2013 2208h
MB-24550	Caprolactam	µg/L	SW8270D	< 10.0				-				4/7/2013 2208h
MB-24550	Carbazole	µg/L	SW8270D	< 10.0				-				4/7/2013 2208h
MB-24550	Chlorobenzilate	µg/L	SW8270D	< 10.0				-				4/7/2013 2208h
MB-24550	Chrysene	µg/L	SW8270D	< 10.0				-				4/7/2013 2208h
MB-24550	Diallate (cis or trans)	µg/L	SW8270D	< 10.0				-				4/7/2013 2208h
MB-24550	Dibenz(a,h)anthracene	µg/L	SW8270D	< 10.0				-				4/7/2013 2208h
MB-24550	Dibenzofuran	µg/L	SW8270D	< 10.0				-				4/7/2013 2208h
MB-24550	Diethyl phthalate	µg/L	SW8270D	< 10.0				-				4/7/2013 2208h
MB-24550	Dimethoate	µg/L	SW8270D	< 10.0				-				4/7/2013 2208h

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Jose Rocha
QA Officer

QC SUMMARY REPORT

Client: Utah Division of Water Quality
Lab Set ID: 1304061
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-24550	Dimethyl phthalate	µg/L	SW8270D	< 10.0				-				4/7/2013 2208h
MB-24550	Dimethylaminoazobenzene	µg/L	SW8270D	< 10.0				-				4/7/2013 2208h
MB-24550	Di-n-butyl phthalate	µg/L	SW8270D	< 10.0				-				4/7/2013 2208h
MB-24550	Di-n-octyl phthalate	µg/L	SW8270D	< 10.0				-				4/7/2013 2208h
MB-24550	Dinoseb	µg/L	SW8270D	< 10.0				-				4/7/2013 2208h
MB-24550	Diphenylamine	µg/L	SW8270D	< 10.0				-				4/7/2013 2208h
MB-24550	Disulfoton	µg/L	SW8270D	< 10.0				-				4/7/2013 2208h
MB-24550	Ethyl methanesulfonate	µg/L	SW8270D	< 10.0				-				4/7/2013 2208h
MB-24550	Famphur	µg/L	SW8270D	< 10.0				-				4/7/2013 2208h
MB-24550	Fluoranthene	µg/L	SW8270D	< 10.0				-				4/7/2013 2208h
MB-24550	Fluorene	µg/L	SW8270D	< 10.0				-				4/7/2013 2208h
MB-24550	Hexachlorobenzene	µg/L	SW8270D	< 10.0				-				4/7/2013 2208h
MB-24550	Hexachlorobutadiene	µg/L	SW8270D	< 10.0				-				4/7/2013 2208h
MB-24550	Hexachlorocyclopentadiene	µg/L	SW8270D	< 10.0				-				4/7/2013 2208h
MB-24550	Hexachloroethane	µg/L	SW8270D	< 10.0				-				4/7/2013 2208h
MB-24550	Hexachlorophene	µg/L	SW8270D	< 10.0				-				4/7/2013 2208h
MB-24550	Hexachloropropene	µg/L	SW8270D	< 10.0				-				4/7/2013 2208h
MB-24550	Indene	µg/L	SW8270D	< 10.0				-				4/7/2013 2208h
MB-24550	Indeno(1,2,3-cd)pyrene	µg/L	SW8270D	< 10.0				-				4/7/2013 2208h
MB-24550	Isodrin	µg/L	SW8270D	< 10.0				-				4/7/2013 2208h
MB-24550	Isophorone	µg/L	SW8270D	< 10.0				-				4/7/2013 2208h
MB-24550	Isosafrole	µg/L	SW8270D	< 10.0				-				4/7/2013 2208h
MB-24550	Kepone	µg/L	SW8270D	< 10.0				-				4/7/2013 2208h
MB-24550	Methapyrilene	µg/L	SW8270D	< 10.0				-				4/7/2013 2208h
MB-24550	Methyl methanesulfonate	µg/L	SW8270D	< 10.0				-				4/7/2013 2208h
MB-24550	Naphthalene	µg/L	SW8270D	< 10.0				-				4/7/2013 2208h
MB-24550	n-Decane	µg/L	SW8270D	< 10.0				-				4/7/2013 2208h

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QC SUMMARY REPORT

Client: Utah Division of Water Quality
Lab Set ID: 1304061
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-24550	Nitrobenzene	µg/L	SW8270D	< 10.0				-				4/7/2013 2208h
MB-24550	Nitroquinoline-1-oxide	µg/L	SW8270D	< 10.0				-				4/7/2013 2208h
MB-24550	N-Nitrosodiethylamine	µg/L	SW8270D	< 10.0				-				4/7/2013 2208h
MB-24550	N-Nitrosodimethylamine	µg/L	SW8270D	< 10.0				-				4/7/2013 2208h
MB-24550	N-Nitrosodi-n-butylamine	µg/L	SW8270D	< 10.0				-				4/7/2013 2208h
MB-24550	N-Nitrosodiphenylamine	µg/L	SW8270D	< 10.0				-				4/7/2013 2208h
MB-24550	N-Nitrosodi-n-propylamine	µg/L	SW8270D	< 10.0				-				4/7/2013 2208h
MB-24550	N-Nitrosomethylethylamine	µg/L	SW8270D	< 10.0				-				4/7/2013 2208h
MB-24550	N-Nitrosomorpholine	µg/L	SW8270D	< 10.0				-				4/7/2013 2208h
MB-24550	N-Nitrosopiperidine	µg/L	SW8270D	< 10.0				-				4/7/2013 2208h
MB-24550	N-Nitrosopyrrolidine	µg/L	SW8270D	< 10.0				-				4/7/2013 2208h
MB-24550	n-Octadecane	µg/L	SW8270D	< 10.0				-				4/7/2013 2208h
MB-24550	O,O,O-Triethyl phosphorothioate	µg/L	SW8270D	< 10.0				-				4/7/2013 2208h
MB-24550	o-Toluidine	µg/L	SW8270D	< 10.0				-				4/7/2013 2208h
MB-24550	Parathion	µg/L	SW8270D	< 10.0				-				4/7/2013 2208h
MB-24550	Methyl parathion	µg/L	SW8270D	< 10.0				-				4/7/2013 2208h
MB-24550	Pentachlorobenzene	µg/L	SW8270D	< 10.0				-				4/7/2013 2208h
MB-24550	Pentachloronitrobenzene	µg/L	SW8270D	< 10.0				-				4/7/2013 2208h
MB-24550	Pentachlorophenol	µg/L	SW8270D	< 10.0				-				4/7/2013 2208h
MB-24550	Phenacetin	µg/L	SW8270D	< 10.0				-				4/7/2013 2208h
MB-24550	Phenanthrene	µg/L	SW8270D	< 10.0				-				4/7/2013 2208h
MB-24550	Phenol	µg/L	SW8270D	< 10.0				-				4/7/2013 2208h
MB-24550	Phorate	µg/L	SW8270D	< 10.0				-				4/7/2013 2208h
MB-24550	Pronamide	µg/L	SW8270D	< 10.0				-				4/7/2013 2208h
MB-24550	Pyrene	µg/L	SW8270D	< 10.0				-				4/7/2013 2208h
MB-24550	Pyridine	µg/L	SW8270D	< 10.0				-				4/7/2013 2208h
MB-24550	Quinoline	µg/L	SW8270D	< 10.0				-				4/7/2013 2208h

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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: 1304061
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-24550	Safrole	µg/L	SW8270D	< 10.0				-				4/7/2013 2208h
MB-24550	Tetraethyl dithiopyrophosphate	µg/L	SW8270D	< 10.0				-				4/7/2013 2208h
MB-24550	Thionazin	µg/L	SW8270D	< 10.0				-				4/7/2013 2208h
MB-24550	Surr: 2,4,6-Tribromophenol	%REC	SW8270D	58.8	80.00		73.6	10-165				4/7/2013 2208h
MB-24550	Surr: 2-Fluorobiphenyl	%REC	SW8270D	24.0	40.00		60.1	10-118				4/7/2013 2208h
MB-24550	Surr: 2-Fluorophenol	%REC	SW8270D	34.6	80.00		43.3	10-121				4/7/2013 2208h
MB-24550	Surr: Nitrobenzene-d5	%REC	SW8270D	19.7	40.00		49.3	10-127				4/7/2013 2208h
MB-24550	Surr: Phenol-d6	%REC	SW8270D	27.4	80.00		34.2	10-124				4/7/2013 2208h
MB-24550	Surr: Terphenyl-d14	%REC	SW8270D	40.7	40.00		102	51-221				4/7/2013 2208h
MB-24550	1-Methylnaphthalene	µg/L	SW8270D	< 0.100				-				4/7/2013 1737h
MB-24550	2-Methylnaphthalene	µg/L	SW8270D	< 0.100				-				4/7/2013 1737h
MB-24550	Acenaphthene	µg/L	SW8270D	< 0.100				-				4/7/2013 1737h
MB-24550	Acenaphthylene	µg/L	SW8270D	< 0.100				-				4/7/2013 1737h
MB-24550	Anthracene	µg/L	SW8270D	< 0.100				-				4/7/2013 1737h
MB-24550	Benz(a)anthracene	µg/L	SW8270D	< 0.100				-				4/7/2013 1737h
MB-24550	Benzo(a)pyrene	µg/L	SW8270D	< 0.100				-				4/7/2013 1737h
MB-24550	Benzo(b)fluoranthene	µg/L	SW8270D	< 0.100				-				4/7/2013 1737h
MB-24550	Benzo(g,h,i)perylene	µg/L	SW8270D	< 0.100				-				4/7/2013 1737h
MB-24550	Benzo(k)fluoranthene	µg/L	SW8270D	< 0.100				-				4/7/2013 1737h
MB-24550	Chrysene	µg/L	SW8270D	< 0.100				-				4/7/2013 1737h
MB-24550	Dibenz(a,h)anthracene	µg/L	SW8270D	< 0.100				-				4/7/2013 1737h
MB-24550	Fluoranthene	µg/L	SW8270D	< 0.100				-				4/7/2013 1737h
MB-24550	Fluorene	µg/L	SW8270D	< 0.100				-				4/7/2013 1737h
MB-24550	Hexachlorobenzene	µg/L	SW8270D	< 1.00				-				4/7/2013 1737h
MB-24550	Indene	µg/L	SW8270D	< 0.100				-				4/7/2013 1737h
MB-24550	Indeno(1,2,3-cd)pyrene	µg/L	SW8270D	< 0.100				-				4/7/2013 1737h
MB-24550	Naphthalene	µg/L	SW8270D	< 0.100				-				4/7/2013 1737h

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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: 1304061
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-24550	Pentachlorophenol	µg/L	SW8270D	< 1.00				-				4/7/2013 1737h
MB-24550	Phenanthrene	µg/L	SW8270D	< 0.100				-				4/7/2013 1737h
MB-24550	Pyrene	µg/L	SW8270D	< 0.100				-				4/7/2013 1737h

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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: 1304061
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
1304061-001BMS	1,2,4-Trichlorobenzene	µg/L	SW8270D	39.6	80.00	0	49.5	20-107				4/7/2013 2318h
1304061-001BMS	1,4-Dichlorobenzene	µg/L	SW8270D	24.4	80.00	0	30.5	11-90				4/7/2013 2318h
1304061-001BMS	2,4,6-Trichlorophenol	µg/L	SW8270D	69.4	80.00	0	86.8	10-223				4/7/2013 2318h
1304061-001BMS	2,4-Dimethylphenol	µg/L	SW8270D	48.0	80.00	0	60.0	10-176				4/7/2013 2318h
1304061-001BMS	2,4-Dinitrotoluene	µg/L	SW8270D	69.2	80.00	0	86.4	21-191				4/7/2013 2318h
1304061-001BMS	2-Chloronaphthalene	µg/L	SW8270D	48.6	80.00	0	60.8	12-132				4/7/2013 2318h
1304061-001BMS	2-Chlorophenol	µg/L	SW8270D	43.1	80.00	0	53.8	20-107				4/7/2013 2318h
1304061-001BMS	4,6-Dinitro-2-methylphenol	µg/L	SW8270D	77.6	80.00	0	97.1	20-250				4/7/2013 2318h
1304061-001BMS	4-Chloro-3-methylphenol	µg/L	SW8270D	67.1	80.00	0	83.8	10-136				4/7/2013 2318h
1304061-001BMS	4-Nitrophenol	µg/L	SW8270D	37.6	80.00	0	47.0	10-135				4/7/2013 2318h
1304061-001BMS	Acenaphthene	µg/L	SW8270D	59.9	80.00	0	74.8	21-113				4/7/2013 2318h
1304061-001BMS	Benzo(a)pyrene	µg/L	SW8270D	74.9	80.00	0	93.6	15-169				4/7/2013 2318h
1304061-001BMS	N-Nitrosodi-n-propylamine	µg/L	SW8270D	46.9	80.00	0	58.6	10-133				4/7/2013 2318h
1304061-001BMS	Pentachlorophenol	µg/L	SW8270D	37.8	80.00	0	47.2	10-131				4/7/2013 2318h
1304061-001BMS	Phenol	µg/L	SW8270D	27.2	80.00	0	34.1	10-71				4/7/2013 2318h
1304061-001BMS	Pyrene	µg/L	SW8270D	74.1	80.00	0	92.6	23-150				4/7/2013 2318h
1304061-001BMS	Surr: 2,4,6-Tribromophenol	%REC	SW8270D	74.4	80.00		93.0	14-159				4/7/2013 2318h
1304061-001BMS	Surr: 2-Fluorobiphenyl	%REC	SW8270D	27.2	40.00		68.0	10-124				4/7/2013 2318h
1304061-001BMS	Surr: 2-Fluorophenol	%REC	SW8270D	24.3	80.00		30.3	10-106				4/7/2013 2318h
1304061-001BMS	Surr: Nitrobenzene-d5	%REC	SW8270D	21.1	40.00		52.9	10-180				4/7/2013 2318h
1304061-001BMS	Surr: Phenol-d6	%REC	SW8270D	23.5	80.00		29.3	10-122				4/7/2013 2318h
1304061-001BMS	Surr: Terphenyl-d14	%REC	SW8270D	38.6	40.00		96.6	10-221				4/7/2013 2318h
1304061-001BMS	Acenaphthene	µg/L	SW8270D	53.6	80.00	0	67.0	21-113				4/7/2013 1858h
1304061-001BMS	Benzo(a)pyrene	µg/L	SW8270D	72.4	80.00	0	90.5	15-169				4/7/2013 1858h
1304061-001BMS	Pentachlorophenol	µg/L	SW8270D	84.8	80.00	0	106	10-249				4/7/2013 1858h
1304061-001BMS	Pyrene	µg/L	SW8270D	70.6	80.00	0	88.2	23-150				4/7/2013 1858h

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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: 1304061
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
1304061-001BMSD	1,2,4-Trichlorobenzene	µg/L	SW8270D	35.8	80.00	0	44.8	20-107	10	25		4/7/2013 2341h
1304061-001BMSD	1,4-Dichlorobenzene	µg/L	SW8270D	24.3	80.00	0	30.4	11-90	0.37	25		4/7/2013 2341h
1304061-001BMSD	2,4,6-Trichlorophenol	µg/L	SW8270D	61.9	80.00	0	77.4	10-223	11.4	25		4/7/2013 2341h
1304061-001BMSD	2,4-Dimethylphenol	µg/L	SW8270D	41.9	80.00	0	52.4	10-176	13.6	25		4/7/2013 2341h
1304061-001BMSD	2,4-Dinitrotoluene	µg/L	SW8270D	72.3	80.00	0	90.4	21-191	4.44	25		4/7/2013 2341h
1304061-001BMSD	2-Chloronaphthalene	µg/L	SW8270D	43.6	80.00	0	54.5	12-132	10.9	25		4/7/2013 2341h
1304061-001BMSD	2-Chlorophenol	µg/L	SW8270D	41.4	80.00	0	51.8	20-107	3.95	25		4/7/2013 2341h
1304061-001BMSD	4,6-Dinitro-2-methylphenol	µg/L	SW8270D	77.6	80.00	0	97.0	20-250	0.116	25		4/7/2013 2341h
1304061-001BMSD	4-Chloro-3-methylphenol	µg/L	SW8270D	64.7	80.00	0	80.9	10-136	3.63	25		4/7/2013 2341h
1304061-001BMSD	4-Nitrophenol	µg/L	SW8270D	39.5	80.00	0	49.4	10-135	4.85	25		4/7/2013 2341h
1304061-001BMSD	Acenaphthene	µg/L	SW8270D	54.4	80.00	0	68.1	21-113	9.5	25		4/7/2013 2341h
1304061-001BMSD	Benzo(a)pyrene	µg/L	SW8270D	71.9	80.00	0	89.9	15-169	4.06	25		4/7/2013 2341h
1304061-001BMSD	N-Nitrosodi-n-propylamine	µg/L	SW8270D	50.2	80.00	0	62.8	10-133	6.82	25		4/7/2013 2341h
1304061-001BMSD	Pentachlorophenol	µg/L	SW8270D	39.1	80.00	0	48.9	10-131	3.56	25		4/7/2013 2341h
1304061-001BMSD	Phenol	µg/L	SW8270D	26.4	80.00	0	33.0	10-71	3.21	25		4/7/2013 2341h
1304061-001BMSD	Pyrene	µg/L	SW8270D	70.6	80.00	0	88.3	23-150	4.84	25		4/7/2013 2341h
1304061-001BMSD	Surr: 2,4,6-Tribromophenol	%REC	SW8270D	76.4	80.00		95.5	14-159				4/7/2013 2341h
1304061-001BMSD	Surr: 2-Fluorobiphenyl	%REC	SW8270D	23.5	40.00		58.8	10-124				4/7/2013 2341h
1304061-001BMSD	Surr: 2-Fluorophenol	%REC	SW8270D	23.9	80.00		29.9	10-106				4/7/2013 2341h
1304061-001BMSD	Surr: Nitrobenzene-d5	%REC	SW8270D	18.9	40.00		47.2	10-180				4/7/2013 2341h
1304061-001BMSD	Surr: Phenol-d6	%REC	SW8270D	22.0	80.00		27.6	10-122				4/7/2013 2341h
1304061-001BMSD	Surr: Terphenyl-d14	%REC	SW8270D	37.0	40.00		92.4	10-221				4/7/2013 2341h
1304061-001BMSD	Acenaphthene	µg/L	SW8270D	50.2	80.00	0	62.8	21-113	6.55	25		4/7/2013 2207h
1304061-001BMSD	Benzo(a)pyrene	µg/L	SW8270D	63.4	80.00	0	79.2	15-169	13.3	25		4/7/2013 2207h
1304061-001BMSD	Pentachlorophenol	µg/L	SW8270D	81.0	80.00	0	101	10-249	4.58	25		4/7/2013 2207h
1304061-001BMSD	Pyrene	µg/L	SW8270D	66.2	80.00	0	82.8	23-150	6.43	25		4/7/2013 2207h

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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: 1304061
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 040213B	1,1,1-Trichloroethane	µg/L	SW8260C	26.6	20.00	0	133	59-156				4/2/2013 1629h
LCS VOC 040213B	1,1-Dichloroethene	µg/L	SW8260C	28.2	20.00	0	141	46-171				4/2/2013 1629h
LCS VOC 040213B	1,2-Dichlorobenzene	µg/L	SW8260C	22.8	20.00	0	114	67-135				4/2/2013 1629h
LCS VOC 040213B	1,2-Dichloroethane	µg/L	SW8260C	25.0	20.00	0	125	60-137				4/2/2013 1629h
LCS VOC 040213B	1,2-Dichloropropane	µg/L	SW8260C	22.1	20.00	0	111	59-135				4/2/2013 1629h
LCS VOC 040213B	Benzene	µg/L	SW8260C	23.5	20.00	0	117	62-127				4/2/2013 1629h
LCS VOC 040213B	Chlorobenzene	µg/L	SW8260C	22.4	20.00	0	112	63-140				4/2/2013 1629h
LCS VOC 040213B	Chloroform	µg/L	SW8260C	24.6	20.00	0	123	67-132				4/2/2013 1629h
LCS VOC 040213B	Ethylbenzene	µg/L	SW8260C	23.0	20.00	0	115	55-133				4/2/2013 1629h
LCS VOC 040213B	Isopropylbenzene	µg/L	SW8260C	23.8	20.00	0	119	60-147				4/2/2013 1629h
LCS VOC 040213B	Methyl tert-butyl ether	µg/L	SW8260C	16.5	20.00	0	82.5	37-189				4/2/2013 1629h
LCS VOC 040213B	Methylene chloride	µg/L	SW8260C	26.4	20.00	0	132	32-185				4/2/2013 1629h
LCS VOC 040213B	Naphthalene	µg/L	SW8260C	20.5	20.00	0	103	28-136				4/2/2013 1629h
LCS VOC 040213B	Tetrahydrofuran	µg/L	SW8260C	12.7	20.00	0	63.7	43-146				4/2/2013 1629h
LCS VOC 040213B	Toluene	µg/L	SW8260C	22.6	20.00	0	113	64-129				4/2/2013 1629h
LCS VOC 040213B	Trichloroethene	µg/L	SW8260C	24.4	20.00	0	122	54-152				4/2/2013 1629h
LCS VOC 040213B	Xylenes, Total	µg/L	SW8260C	69.4	60.00	0	116	52-134				4/2/2013 1629h
LCS VOC 040213B	Surr: 1,2-Dichloroethane-d4	%REC	SW8260C	55.5	50.00		111	76-138				4/2/2013 1629h
LCS VOC 040213B	Surr: 4-Bromofluorobenzene	%REC	SW8260C	48.7	50.00		97.4	77-121				4/2/2013 1629h
LCS VOC 040213B	Surr: Dibromofluoromethane	%REC	SW8260C	52.4	50.00		105	67-128				4/2/2013 1629h
LCS VOC 040213B	Surr: Toluene-d8	%REC	SW8260C	47.5	50.00		95.1	81-135				4/2/2013 1629h
LCS VOC 040313A	1,1,1-Trichloroethane	µg/L	SW8260C	28.6	20.00	0	143	59-156				4/3/2013 742h
LCS VOC 040313A	1,1-Dichloroethene	µg/L	SW8260C	30.2	20.00	0	151	46-171				4/3/2013 742h
LCS VOC 040313A	1,2-Dichlorobenzene	µg/L	SW8260C	23.4	20.00	0	117	67-135				4/3/2013 742h
LCS VOC 040313A	1,2-Dichloroethane	µg/L	SW8260C	25.9	20.00	0	130	60-137				4/3/2013 742h
LCS VOC 040313A	1,2-Dichloropropane	µg/L	SW8260C	22.7	20.00	0	114	59-135				4/3/2013 742h
LCS VOC 040313A	Benzene	µg/L	SW8260C	24.4	20.00	0	122	62-127				4/3/2013 742h

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QC SUMMARY REPORT

Client: Utah Division of Water Quality
Lab Set ID: 1304061
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 040313A	Chlorobenzene	µg/L	SW8260C	23.6	20.00	0	118	63-140				4/3/2013 742h
LCS VOC 040313A	Chloroform	µg/L	SW8260C	25.6	20.00	0	128	67-132				4/3/2013 742h
LCS VOC 040313A	Ethylbenzene	µg/L	SW8260C	24.2	20.00	0	121	55-133				4/3/2013 742h
LCS VOC 040313A	Isopropylbenzene	µg/L	SW8260C	25.0	20.00	0	125	60-147				4/3/2013 742h
LCS VOC 040313A	Methyl tert-butyl ether	µg/L	SW8260C	17.0	20.00	0	84.8	37-189				4/3/2013 742h
LCS VOC 040313A	Methylene chloride	µg/L	SW8260C	27.5	20.00	0	137	32-185				4/3/2013 742h
LCS VOC 040313A	Naphthalene	µg/L	SW8260C	20.8	20.00	0	104	28-136				4/3/2013 742h
LCS VOC 040313A	Tetrahydrofuran	µg/L	SW8260C	12.7	20.00	0	63.4	43-146				4/3/2013 742h
LCS VOC 040313A	Toluene	µg/L	SW8260C	23.5	20.00	0	117	64-129				4/3/2013 742h
LCS VOC 040313A	Trichloroethene	µg/L	SW8260C	26.2	20.00	0	131	54-152				4/3/2013 742h
LCS VOC 040313A	Xylenes, Total	µg/L	SW8260C	73.2	60.00	0	122	52-134				4/3/2013 742h
LCS VOC 040313A	Surr: 1,2-Dichloroethane-d4	%REC	SW8260C	56.0	50.00		112	76-138				4/3/2013 742h
LCS VOC 040313A	Surr: 4-Bromofluorobenzene	%REC	SW8260C	49.2	50.00		98.5	77-121				4/3/2013 742h
LCS VOC 040313A	Surr: Dibromofluoromethane	%REC	SW8260C	52.6	50.00		105	67-128				4/3/2013 742h
LCS VOC 040313A	Surr: Toluene-d8	%REC	SW8260C	47.4	50.00		94.8	81-135				4/3/2013 742h

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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: 1304061
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 040213B	1,1,1,2-Tetrachloroethane	µg/L	SW8260C	< 2.00				-				4/2/2013 1707h
MB VOC 040213B	1,1,1-Trichloroethane	µg/L	SW8260C	< 2.00				-				4/2/2013 1707h
MB VOC 040213B	1,1,2,2-Tetrachloroethane	µg/L	SW8260C	< 2.00				-				4/2/2013 1707h
MB VOC 040213B	1,1,2-Trichloro-1,2,2-trifluoroethane	µg/L	SW8260C	< 2.00				-				4/2/2013 1707h
MB VOC 040213B	1,1,2-Trichloroethane	µg/L	SW8260C	< 2.00				-				4/2/2013 1707h
MB VOC 040213B	1,1-Dichloropropene	µg/L	SW8260C	< 2.00				-				4/2/2013 1707h
MB VOC 040213B	1,1-Dichloroethane	µg/L	SW8260C	< 2.00				-				4/2/2013 1707h
MB VOC 040213B	1,1-Dichloroethene	µg/L	SW8260C	< 2.00				-				4/2/2013 1707h
MB VOC 040213B	1,2,3-Trichlorobenzene	µg/L	SW8260C	< 2.00				-				4/2/2013 1707h
MB VOC 040213B	1,2,3-Trichloropropane	µg/L	SW8260C	< 2.00				-				4/2/2013 1707h
MB VOC 040213B	1,2,3-Trimethylbenzene	µg/L	SW8260C	< 2.00				-				4/2/2013 1707h
MB VOC 040213B	1,2,4-Trichlorobenzene	µg/L	SW8260C	< 2.00				-				4/2/2013 1707h
MB VOC 040213B	1,2,4-Trimethylbenzene	µg/L	SW8260C	< 2.00				-				4/2/2013 1707h
MB VOC 040213B	1,2-Dibromo-3-chloropropane	µg/L	SW8260C	< 5.00				-				4/2/2013 1707h
MB VOC 040213B	1,2-Dibromoethane	µg/L	SW8260C	< 2.00				-				4/2/2013 1707h
MB VOC 040213B	1,2-Dichlorobenzene	µg/L	SW8260C	< 2.00				-				4/2/2013 1707h
MB VOC 040213B	1,2-Dichloroethane	µg/L	SW8260C	< 2.00				-				4/2/2013 1707h
MB VOC 040213B	1,2-Dichloropropane	µg/L	SW8260C	< 2.00				-				4/2/2013 1707h
MB VOC 040213B	1,3,5-Trimethylbenzene	µg/L	SW8260C	< 2.00				-				4/2/2013 1707h
MB VOC 040213B	1,3-Dichlorobenzene	µg/L	SW8260C	< 2.00				-				4/2/2013 1707h
MB VOC 040213B	1,3-Dichloropropane	µg/L	SW8260C	< 2.00				-				4/2/2013 1707h
MB VOC 040213B	1,4-Dichlorobenzene	µg/L	SW8260C	< 2.00				-				4/2/2013 1707h
MB VOC 040213B	1,4-Dioxane	µg/L	SW8260C	< 50.0				-				4/2/2013 1707h
MB VOC 040213B	2,2-Dichloropropane	µg/L	SW8260C	< 2.00				-				4/2/2013 1707h
MB VOC 040213B	2-Butanone	µg/L	SW8260C	< 10.0				-				4/2/2013 1707h
MB VOC 040213B	2-Chloroethyl vinyl ether	µg/L	SW8260C	< 5.00				-				4/2/2013 1707h

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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: 1304061
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 040213B	2-Chlorotoluene	µg/L	SW8260C	< 2.00				-				4/2/2013 1707h
MB VOC 040213B	2-Hexanone	µg/L	SW8260C	< 5.00				-				4/2/2013 1707h
MB VOC 040213B	2-Nitropropane	µg/L	SW8260C	< 5.00				-				4/2/2013 1707h
MB VOC 040213B	4-Chlorotoluene	µg/L	SW8260C	< 2.00				-				4/2/2013 1707h
MB VOC 040213B	4-Isopropyltoluene	µg/L	SW8260C	< 2.00				-				4/2/2013 1707h
MB VOC 040213B	4-Methyl-2-pentanone	µg/L	SW8260C	< 5.00				-				4/2/2013 1707h
MB VOC 040213B	Acetone	µg/L	SW8260C	< 10.0				-				4/2/2013 1707h
MB VOC 040213B	Acetonitrile	µg/L	SW8260C	< 5.00				-				4/2/2013 1707h
MB VOC 040213B	Acrolein	µg/L	SW8260C	< 5.00				-				4/2/2013 1707h
MB VOC 040213B	Acrylonitrile	µg/L	SW8260C	< 10.0				-				4/2/2013 1707h
MB VOC 040213B	Allyl chloride	µg/L	SW8260C	< 5.00				-				4/2/2013 1707h
MB VOC 040213B	Benzene	µg/L	SW8260C	< 2.00				-				4/2/2013 1707h
MB VOC 040213B	Benzyl chloride	µg/L	SW8260C	< 5.00				-				4/2/2013 1707h
MB VOC 040213B	Bis(2-chloroisopropyl) ether	µg/L	SW8260C	< 5.00				-				4/2/2013 1707h
MB VOC 040213B	Bromobenzene	µg/L	SW8260C	< 2.00				-				4/2/2013 1707h
MB VOC 040213B	Bromochloromethane	µg/L	SW8260C	< 2.00				-				4/2/2013 1707h
MB VOC 040213B	Bromodichloromethane	µg/L	SW8260C	< 2.00				-				4/2/2013 1707h
MB VOC 040213B	Bromoform	µg/L	SW8260C	< 2.00				-				4/2/2013 1707h
MB VOC 040213B	Bromomethane	µg/L	SW8260C	< 5.00				-				4/2/2013 1707h
MB VOC 040213B	Butyl acetate	µg/L	SW8260C	< 10.0				-				4/2/2013 1707h
MB VOC 040213B	Carbon disulfide	µg/L	SW8260C	< 2.00				-				4/2/2013 1707h
MB VOC 040213B	Carbon tetrachloride	µg/L	SW8260C	< 2.00				-				4/2/2013 1707h
MB VOC 040213B	Chlorobenzene	µg/L	SW8260C	< 2.00				-				4/2/2013 1707h
MB VOC 040213B	Chloroethane	µg/L	SW8260C	< 2.00				-				4/2/2013 1707h
MB VOC 040213B	Chloroform	µg/L	SW8260C	< 2.00				-				4/2/2013 1707h
MB VOC 040213B	Chloromethane	µg/L	SW8260C	< 3.00				-				4/2/2013 1707h
MB VOC 040213B	Chloroprene	µg/L	SW8260C	< 2.00				-				4/2/2013 1707h

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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: 1304061
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 040213B	cis-1,2-Dichloroethene	µg/L	SW8260C	< 2.00				-				4/2/2013 1707h
MB VOC 040213B	cis-1,3-Dichloropropene	µg/L	SW8260C	< 2.00				-				4/2/2013 1707h
MB VOC 040213B	Cyclohexane	µg/L	SW8260C	< 2.00				-				4/2/2013 1707h
MB VOC 040213B	Cyclohexanone	µg/L	SW8260C	< 50.0				-				4/2/2013 1707h
MB VOC 040213B	Dibromochloromethane	µg/L	SW8260C	< 2.00				-				4/2/2013 1707h
MB VOC 040213B	Dibromomethane	µg/L	SW8260C	< 2.00				-				4/2/2013 1707h
MB VOC 040213B	Dichlorodifluoromethane	µg/L	SW8260C	< 2.00				-				4/2/2013 1707h
MB VOC 040213B	Ethyl acetate	µg/L	SW8260C	< 10.0				-				4/2/2013 1707h
MB VOC 040213B	Ethyl ether	µg/L	SW8260C	< 10.0				-				4/2/2013 1707h
MB VOC 040213B	Ethyl methacrylate	µg/L	SW8260C	< 2.00				-				4/2/2013 1707h
MB VOC 040213B	Ethylbenzene	µg/L	SW8260C	< 2.00				-				4/2/2013 1707h
MB VOC 040213B	Hexachlorobutadiene	µg/L	SW8260C	< 2.00				-				4/2/2013 1707h
MB VOC 040213B	Iodomethane	µg/L	SW8260C	< 5.00				-				4/2/2013 1707h
MB VOC 040213B	Isobutyl alcohol	µg/L	SW8260C	< 100				-				4/2/2013 1707h
MB VOC 040213B	Isopropyl acetate	µg/L	SW8260C	< 10.0				-				4/2/2013 1707h
MB VOC 040213B	Isopropyl alcohol	µg/L	SW8260C	< 40.0				-				4/2/2013 1707h
MB VOC 040213B	Isopropylbenzene	µg/L	SW8260C	< 2.00				-				4/2/2013 1707h
MB VOC 040213B	m,p-Xylene	µg/L	SW8260C	< 2.00				-				4/2/2013 1707h
MB VOC 040213B	Methacrylonitrile	µg/L	SW8260C	< 5.00				-				4/2/2013 1707h
MB VOC 040213B	Methyl Acetate	µg/L	SW8260C	< 5.00				-				4/2/2013 1707h
MB VOC 040213B	Methyl methacrylate	µg/L	SW8260C	< 5.00				-				4/2/2013 1707h
MB VOC 040213B	Methyl tert-butyl ether	µg/L	SW8260C	< 2.00				-				4/2/2013 1707h
MB VOC 040213B	Methylcyclohexane	µg/L	SW8260C	< 2.00				-				4/2/2013 1707h
MB VOC 040213B	Methylene chloride	µg/L	SW8260C	< 2.00				-				4/2/2013 1707h
MB VOC 040213B	n-Amyl acetate	µg/L	SW8260C	< 10.0				-				4/2/2013 1707h
MB VOC 040213B	Naphthalene	µg/L	SW8260C	< 2.00				-				4/2/2013 1707h
MB VOC 040213B	n-Butyl alcohol	µg/L	SW8260C	< 100				-				4/2/2013 1707h

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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: 1304061
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 040213B	n-Butylbenzene	µg/L	SW8260C	< 2.00				-				4/2/2013 1707h
MB VOC 040213B	n-Hexane	µg/L	SW8260C	< 2.00				-				4/2/2013 1707h
MB VOC 040213B	n-Octane	µg/L	SW8260C	< 2.00				-				4/2/2013 1707h
MB VOC 040213B	n-Propylbenzene	µg/L	SW8260C	< 2.00				-				4/2/2013 1707h
MB VOC 040213B	o-Xylene	µg/L	SW8260C	< 2.00				-				4/2/2013 1707h
MB VOC 040213B	Pentachloroethane	µg/L	SW8260C	< 5.00				-				4/2/2013 1707h
MB VOC 040213B	Propionitrile	µg/L	SW8260C	< 25.0				-				4/2/2013 1707h
MB VOC 040213B	Propyl acetate	µg/L	SW8260C	< 10.0				-				4/2/2013 1707h
MB VOC 040213B	sec-Butylbenzene	µg/L	SW8260C	< 2.00				-				4/2/2013 1707h
MB VOC 040213B	Styrene	µg/L	SW8260C	< 2.00				-				4/2/2013 1707h
MB VOC 040213B	tert-Butyl alcohol	µg/L	SW8260C	< 20.0				-				4/2/2013 1707h
MB VOC 040213B	tert-Butylbenzene	µg/L	SW8260C	< 2.00				-				4/2/2013 1707h
MB VOC 040213B	Tetrachloroethene	µg/L	SW8260C	< 2.00				-				4/2/2013 1707h
MB VOC 040213B	Tetrahydrofuran	µg/L	SW8260C	< 2.00				-				4/2/2013 1707h
MB VOC 040213B	Toluene	µg/L	SW8260C	< 2.00				-				4/2/2013 1707h
MB VOC 040213B	trans-1,2-Dichloroethene	µg/L	SW8260C	< 2.00				-				4/2/2013 1707h
MB VOC 040213B	trans-1,3-Dichloropropene	µg/L	SW8260C	< 2.00				-				4/2/2013 1707h
MB VOC 040213B	trans-1,4-Dichloro-2-butene	µg/L	SW8260C	< 2.00				-				4/2/2013 1707h
MB VOC 040213B	Trichloroethene	µg/L	SW8260C	< 2.00				-				4/2/2013 1707h
MB VOC 040213B	Trichlorofluoromethane	µg/L	SW8260C	< 2.00				-				4/2/2013 1707h
MB VOC 040213B	Vinyl acetate	µg/L	SW8260C	< 10.0				-				4/2/2013 1707h
MB VOC 040213B	Vinyl chloride	µg/L	SW8260C	< 1.00				-				4/2/2013 1707h
MB VOC 040213B	Xylenes, Total	µg/L	SW8260C	< 2.00				-				4/2/2013 1707h
MB VOC 040213B	Surr: 1,2-Dichloroethane-d4	%REC	SW8260C	58.2	50.00		116	76-138				4/2/2013 1707h
MB VOC 040213B	Surr: 4-Bromofluorobenzene	%REC	SW8260C	52.0	50.00		104	77-121				4/2/2013 1707h
MB VOC 040213B	Surr: Dibromofluoromethane	%REC	SW8260C	51.4	50.00		103	67-128				4/2/2013 1707h
MB VOC 040213B	Surr: Toluene-d8	%REC	SW8260C	48.7	50.00		97.4	81-135				4/2/2013 1707h

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QC SUMMARY REPORT

Client: Utah Division of Water Quality
Lab Set ID: 1304061
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 040313A	1,1,1,2-Tetrachloroethane	µg/L	SW8260C	< 2.00				-				4/3/2013 820h
MB VOC 040313A	1,1,1-Trichloroethane	µg/L	SW8260C	< 2.00				-				4/3/2013 820h
MB VOC 040313A	1,1,2,2-Tetrachloroethane	µg/L	SW8260C	< 2.00				-				4/3/2013 820h
MB VOC 040313A	1,1,2-Trichloro-1,2,2-trifluoroethane	µg/L	SW8260C	< 2.00				-				4/3/2013 820h
MB VOC 040313A	1,1,2-Trichloroethane	µg/L	SW8260C	< 2.00				-				4/3/2013 820h
MB VOC 040313A	1,1-Dichloropropene	µg/L	SW8260C	< 2.00				-				4/3/2013 820h
MB VOC 040313A	1,1-Dichloroethane	µg/L	SW8260C	< 2.00				-				4/3/2013 820h
MB VOC 040313A	1,1-Dichloroethene	µg/L	SW8260C	< 2.00				-				4/3/2013 820h
MB VOC 040313A	1,2,3-Trichlorobenzene	µg/L	SW8260C	< 2.00				-				4/3/2013 820h
MB VOC 040313A	1,2,3-Trichloropropane	µg/L	SW8260C	< 2.00				-				4/3/2013 820h
MB VOC 040313A	1,2,3-Trimethylbenzene	µg/L	SW8260C	< 2.00				-				4/3/2013 820h
MB VOC 040313A	1,2,4-Trichlorobenzene	µg/L	SW8260C	< 2.00				-				4/3/2013 820h
MB VOC 040313A	1,2,4-Trimethylbenzene	µg/L	SW8260C	< 2.00				-				4/3/2013 820h
MB VOC 040313A	1,2-Dibromo-3-chloropropane	µg/L	SW8260C	< 5.00				-				4/3/2013 820h
MB VOC 040313A	1,2-Dibromoethane	µg/L	SW8260C	< 2.00				-				4/3/2013 820h
MB VOC 040313A	1,2-Dichlorobenzene	µg/L	SW8260C	< 2.00				-				4/3/2013 820h
MB VOC 040313A	1,2-Dichloroethane	µg/L	SW8260C	< 2.00				-				4/3/2013 820h
MB VOC 040313A	1,2-Dichloropropane	µg/L	SW8260C	< 2.00				-				4/3/2013 820h
MB VOC 040313A	1,3,5-Trimethylbenzene	µg/L	SW8260C	< 2.00				-				4/3/2013 820h
MB VOC 040313A	1,3-Dichlorobenzene	µg/L	SW8260C	< 2.00				-				4/3/2013 820h
MB VOC 040313A	1,3-Dichloropropane	µg/L	SW8260C	< 2.00				-				4/3/2013 820h
MB VOC 040313A	1,4-Dichlorobenzene	µg/L	SW8260C	< 2.00				-				4/3/2013 820h
MB VOC 040313A	1,4-Dioxane	µg/L	SW8260C	< 50.0				-				4/3/2013 820h
MB VOC 040313A	2,2-Dichloropropane	µg/L	SW8260C	< 2.00				-				4/3/2013 820h
MB VOC 040313A	2-Butanone	µg/L	SW8260C	< 10.0				-				4/3/2013 820h
MB VOC 040313A	2-Chloroethyl vinyl ether	µg/L	SW8260C	< 5.00				-				4/3/2013 820h

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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: 1304061
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 040313A	2-Chlorotoluene	µg/L	SW8260C	< 2.00				-				4/3/2013 820h
MB VOC 040313A	2-Hexanone	µg/L	SW8260C	< 5.00				-				4/3/2013 820h
MB VOC 040313A	2-Nitropropane	µg/L	SW8260C	< 5.00				-				4/3/2013 820h
MB VOC 040313A	4-Chlorotoluene	µg/L	SW8260C	< 2.00				-				4/3/2013 820h
MB VOC 040313A	4-Isopropyltoluene	µg/L	SW8260C	< 2.00				-				4/3/2013 820h
MB VOC 040313A	4-Methyl-2-pentanone	µg/L	SW8260C	< 5.00				-				4/3/2013 820h
MB VOC 040313A	Acetone	µg/L	SW8260C	< 10.0				-				4/3/2013 820h
MB VOC 040313A	Acetonitrile	µg/L	SW8260C	< 5.00				-				4/3/2013 820h
MB VOC 040313A	Acrolein	µg/L	SW8260C	< 5.00				-				4/3/2013 820h
MB VOC 040313A	Acrylonitrile	µg/L	SW8260C	< 10.0				-				4/3/2013 820h
MB VOC 040313A	Allyl chloride	µg/L	SW8260C	< 5.00				-				4/3/2013 820h
MB VOC 040313A	Benzene	µg/L	SW8260C	< 2.00				-				4/3/2013 820h
MB VOC 040313A	Benzyl chloride	µg/L	SW8260C	< 5.00				-				4/3/2013 820h
MB VOC 040313A	Bis(2-chloroisopropyl) ether	µg/L	SW8260C	< 5.00				-				4/3/2013 820h
MB VOC 040313A	Bromobenzene	µg/L	SW8260C	< 2.00				-				4/3/2013 820h
MB VOC 040313A	Bromochloromethane	µg/L	SW8260C	< 2.00				-				4/3/2013 820h
MB VOC 040313A	Bromodichloromethane	µg/L	SW8260C	< 2.00				-				4/3/2013 820h
MB VOC 040313A	Bromoform	µg/L	SW8260C	< 2.00				-				4/3/2013 820h
MB VOC 040313A	Bromomethane	µg/L	SW8260C	< 5.00				-				4/3/2013 820h
MB VOC 040313A	Butyl acetate	µg/L	SW8260C	< 10.0				-				4/3/2013 820h
MB VOC 040313A	Carbon disulfide	µg/L	SW8260C	< 2.00				-				4/3/2013 820h
MB VOC 040313A	Carbon tetrachloride	µg/L	SW8260C	< 2.00				-				4/3/2013 820h
MB VOC 040313A	Chlorobenzene	µg/L	SW8260C	< 2.00				-				4/3/2013 820h
MB VOC 040313A	Chloroethane	µg/L	SW8260C	< 2.00				-				4/3/2013 820h
MB VOC 040313A	Chloroform	µg/L	SW8260C	< 2.00				-				4/3/2013 820h
MB VOC 040313A	Chloromethane	µg/L	SW8260C	< 3.00				-				4/3/2013 820h
MB VOC 040313A	Chloroprene	µg/L	SW8260C	< 2.00				-				4/3/2013 820h

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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: 1304061
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 040313A	cis-1,2-Dichloroethene	µg/L	SW8260C	< 2.00				-				4/3/2013 820h
MB VOC 040313A	cis-1,3-Dichloropropene	µg/L	SW8260C	< 2.00				-				4/3/2013 820h
MB VOC 040313A	Cyclohexane	µg/L	SW8260C	< 2.00				-				4/3/2013 820h
MB VOC 040313A	Cyclohexanone	µg/L	SW8260C	< 50.0				-				4/3/2013 820h
MB VOC 040313A	Dibromochloromethane	µg/L	SW8260C	< 2.00				-				4/3/2013 820h
MB VOC 040313A	Dibromomethane	µg/L	SW8260C	< 2.00				-				4/3/2013 820h
MB VOC 040313A	Dichlorodifluoromethane	µg/L	SW8260C	< 2.00				-				4/3/2013 820h
MB VOC 040313A	Ethyl acetate	µg/L	SW8260C	< 10.0				-				4/3/2013 820h
MB VOC 040313A	Ethyl ether	µg/L	SW8260C	< 10.0				-				4/3/2013 820h
MB VOC 040313A	Ethyl methacrylate	µg/L	SW8260C	< 2.00				-				4/3/2013 820h
MB VOC 040313A	Ethylbenzene	µg/L	SW8260C	< 2.00				-				4/3/2013 820h
MB VOC 040313A	Hexachlorobutadiene	µg/L	SW8260C	< 2.00				-				4/3/2013 820h
MB VOC 040313A	Iodomethane	µg/L	SW8260C	< 5.00				-				4/3/2013 820h
MB VOC 040313A	Isobutyl alcohol	µg/L	SW8260C	< 100				-				4/3/2013 820h
MB VOC 040313A	Isopropyl acetate	µg/L	SW8260C	< 10.0				-				4/3/2013 820h
MB VOC 040313A	Isopropyl alcohol	µg/L	SW8260C	< 40.0				-				4/3/2013 820h
MB VOC 040313A	Isopropylbenzene	µg/L	SW8260C	< 2.00				-				4/3/2013 820h
MB VOC 040313A	m,p-Xylene	µg/L	SW8260C	< 2.00				-				4/3/2013 820h
MB VOC 040313A	Methacrylonitrile	µg/L	SW8260C	< 5.00				-				4/3/2013 820h
MB VOC 040313A	Methyl Acetate	µg/L	SW8260C	< 5.00				-				4/3/2013 820h
MB VOC 040313A	Methyl methacrylate	µg/L	SW8260C	< 5.00				-				4/3/2013 820h
MB VOC 040313A	Methyl tert-butyl ether	µg/L	SW8260C	< 2.00				-				4/3/2013 820h
MB VOC 040313A	Methylcyclohexane	µg/L	SW8260C	< 2.00				-				4/3/2013 820h
MB VOC 040313A	Methylene chloride	µg/L	SW8260C	< 2.00				-				4/3/2013 820h
MB VOC 040313A	n-Amyl acetate	µg/L	SW8260C	< 10.0				-				4/3/2013 820h
MB VOC 040313A	Naphthalene	µg/L	SW8260C	< 2.00				-				4/3/2013 820h
MB VOC 040313A	n-Butyl alcohol	µg/L	SW8260C	< 100				-				4/3/2013 820h

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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: 1304061
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 040313A	n-Butylbenzene	µg/L	SW8260C	< 2.00				-				4/3/2013 820h
MB VOC 040313A	n-Hexane	µg/L	SW8260C	< 2.00				-				4/3/2013 820h
MB VOC 040313A	n-Octane	µg/L	SW8260C	< 2.00				-				4/3/2013 820h
MB VOC 040313A	n-Propylbenzene	µg/L	SW8260C	< 2.00				-				4/3/2013 820h
MB VOC 040313A	o-Xylene	µg/L	SW8260C	< 2.00				-				4/3/2013 820h
MB VOC 040313A	Pentachloroethane	µg/L	SW8260C	< 5.00				-				4/3/2013 820h
MB VOC 040313A	Propionitrile	µg/L	SW8260C	< 25.0				-				4/3/2013 820h
MB VOC 040313A	Propyl acetate	µg/L	SW8260C	< 10.0				-				4/3/2013 820h
MB VOC 040313A	sec-Butylbenzene	µg/L	SW8260C	< 2.00				-				4/3/2013 820h
MB VOC 040313A	Styrene	µg/L	SW8260C	< 2.00				-				4/3/2013 820h
MB VOC 040313A	tert-Butyl alcohol	µg/L	SW8260C	< 20.0				-				4/3/2013 820h
MB VOC 040313A	tert-Butylbenzene	µg/L	SW8260C	< 2.00				-				4/3/2013 820h
MB VOC 040313A	Tetrachloroethene	µg/L	SW8260C	< 2.00				-				4/3/2013 820h
MB VOC 040313A	Tetrahydrofuran	µg/L	SW8260C	< 2.00				-				4/3/2013 820h
MB VOC 040313A	Toluene	µg/L	SW8260C	< 2.00				-				4/3/2013 820h
MB VOC 040313A	trans-1,2-Dichloroethene	µg/L	SW8260C	< 2.00				-				4/3/2013 820h
MB VOC 040313A	trans-1,3-Dichloropropene	µg/L	SW8260C	< 2.00				-				4/3/2013 820h
MB VOC 040313A	trans-1,4-Dichloro-2-butene	µg/L	SW8260C	< 2.00				-				4/3/2013 820h
MB VOC 040313A	Trichloroethene	µg/L	SW8260C	< 2.00				-				4/3/2013 820h
MB VOC 040313A	Trichlorofluoromethane	µg/L	SW8260C	< 2.00				-				4/3/2013 820h
MB VOC 040313A	Vinyl acetate	µg/L	SW8260C	< 10.0				-				4/3/2013 820h
MB VOC 040313A	Vinyl chloride	µg/L	SW8260C	< 1.00				-				4/3/2013 820h
MB VOC 040313A	Xylenes, Total	µg/L	SW8260C	< 2.00				-				4/3/2013 820h
MB VOC 040313A	Surr: 1,2-Dichloroethane-d4	%REC	SW8260C	58.1	50.00		116	76-138				4/3/2013 820h
MB VOC 040313A	Surr: 4-Bromofluorobenzene	%REC	SW8260C	51.6	50.00		103	77-121				4/3/2013 820h
MB VOC 040313A	Surr: Dibromofluoromethane	%REC	SW8260C	50.5	50.00		101	67-128				4/3/2013 820h
MB VOC 040313A	Surr: Toluene-d8	%REC	SW8260C	48.1	50.00		96.2	81-135				4/3/2013 820h

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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: 1304061
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
1304024-001AMS	1,1,1-Trichloroethane	µg/L	SW8260C	25.9	20.00	0	129	67-147				4/3/2013 1052h
1304024-001AMS	1,1-Dichloroethene	µg/L	SW8260C	26.8	20.00	0	134	51-152				4/3/2013 1052h
1304024-001AMS	1,2-Dichlorobenzene	µg/L	SW8260C	20.5	20.00	0	102	70-130				4/3/2013 1052h
1304024-001AMS	1,2-Dichloroethane	µg/L	SW8260C	24.4	20.00	0	122	39-162				4/3/2013 1052h
1304024-001AMS	1,2-Dichloropropane	µg/L	SW8260C	20.1	20.00	0	101	59-135				4/3/2013 1052h
1304024-001AMS	Benzene	µg/L	SW8260C	21.8	20.00	0	109	66-145				4/3/2013 1052h
1304024-001AMS	Chlorobenzene	µg/L	SW8260C	20.7	20.00	0	103	63-140				4/3/2013 1052h
1304024-001AMS	Chloroform	µg/L	SW8260C	22.7	20.00	0	113	50-146				4/3/2013 1052h
1304024-001AMS	Ethylbenzene	µg/L	SW8260C	20.9	20.00	0	105	69-133				4/3/2013 1052h
1304024-001AMS	Isopropylbenzene	µg/L	SW8260C	21.7	20.00	0	108	60-147				4/3/2013 1052h
1304024-001AMS	Methyl tert-butyl ether	µg/L	SW8260C	22.9	20.00	0	114	37-189				4/3/2013 1052h
1304024-001AMS	Methylene chloride	µg/L	SW8260C	24.6	20.00	0	123	30-192				4/3/2013 1052h
1304024-001AMS	Naphthalene	µg/L	SW8260C	20.7	20.00	0	104	41-131				4/3/2013 1052h
1304024-001AMS	Tetrahydrofuran	µg/L	SW8260C	19.9	20.00	0	99.5	43-146				4/3/2013 1052h
1304024-001AMS	Toluene	µg/L	SW8260C	20.8	20.00	0	104	18-192				4/3/2013 1052h
1304024-001AMS	Trichloroethene	µg/L	SW8260C	22.7	20.00	0	114	61-153				4/3/2013 1052h
1304024-001AMS	Xylenes, Total	µg/L	SW8260C	63.3	60.00	0	105	42-167				4/3/2013 1052h
1304024-001AMS	Surr: 1,2-Dichloroethane-d4	%REC	SW8260C	58.5	50.00		117	72-151				4/3/2013 1052h
1304024-001AMS	Surr: 4-Bromofluorobenzene	%REC	SW8260C	49.3	50.00		98.6	80-128				4/3/2013 1052h
1304024-001AMS	Surr: Dibromofluoromethane	%REC	SW8260C	50.7	50.00		101	80-124				4/3/2013 1052h
1304024-001AMS	Surr: Toluene-d8	%REC	SW8260C	46.8	50.00		93.5	77-129				4/3/2013 1052h
1304061-001AMS	1,1,1-Trichloroethane	µg/L	SW8260C	24.5	20.00	0	122	67-147				4/2/2013 1823h
1304061-001AMS	1,1-Dichloroethene	µg/L	SW8260C	25.0	20.00	0	125	51-152				4/2/2013 1823h
1304061-001AMS	1,2-Dichlorobenzene	µg/L	SW8260C	19.4	20.00	0	97.0	70-130				4/2/2013 1823h
1304061-001AMS	1,2-Dichloroethane	µg/L	SW8260C	22.1	20.00	0	110	39-162				4/2/2013 1823h
1304061-001AMS	1,2-Dichloropropane	µg/L	SW8260C	19.2	20.00	0	95.8	59-135				4/2/2013 1823h
1304061-001AMS	Benzene	µg/L	SW8260C	20.7	20.00	0	104	66-145				4/2/2013 1823h

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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: 1304061
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
1304061-001AMS	Chlorobenzene	µg/L	SW8260C	19.4	20.00	0	97.3	63-140				4/2/2013 1823h
1304061-001AMS	Chloroform	µg/L	SW8260C	21.6	20.00	0	108	50-146				4/2/2013 1823h
1304061-001AMS	Ethylbenzene	µg/L	SW8260C	20.2	20.00	0	101	69-133				4/2/2013 1823h
1304061-001AMS	Isopropylbenzene	µg/L	SW8260C	20.7	20.00	0	104	60-147				4/2/2013 1823h
1304061-001AMS	Methyl tert-butyl ether	µg/L	SW8260C	13.7	20.00	0	68.4	37-189				4/2/2013 1823h
1304061-001AMS	Methylene chloride	µg/L	SW8260C	22.8	20.00	0	114	30-192				4/2/2013 1823h
1304061-001AMS	Naphthalene	µg/L	SW8260C	17.4	20.00	0	86.8	41-131				4/2/2013 1823h
1304061-001AMS	Tetrahydrofuran	µg/L	SW8260C	10.5	20.00	0	52.4	43-146				4/2/2013 1823h
1304061-001AMS	Toluene	µg/L	SW8260C	19.8	20.00	0	99.0	18-192				4/2/2013 1823h
1304061-001AMS	Trichloroethene	µg/L	SW8260C	21.2	20.00	0	106	61-153				4/2/2013 1823h
1304061-001AMS	Xylenes, Total	µg/L	SW8260C	60.2	60.00	0	100	42-167				4/2/2013 1823h
1304061-001AMS	Surr: 1,2-Dichloroethane-d4	%REC	SW8260C	55.9	50.00		112	72-151				4/2/2013 1823h
1304061-001AMS	Surr: 4-Bromofluorobenzene	%REC	SW8260C	47.5	50.00		95.0	80-128				4/2/2013 1823h
1304061-001AMS	Surr: Dibromofluoromethane	%REC	SW8260C	48.8	50.00		97.6	80-124				4/2/2013 1823h
1304061-001AMS	Surr: Toluene-d8	%REC	SW8260C	46.0	50.00		92.0	77-129				4/2/2013 1823h

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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: 1304061
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
1304024-001AMSD	1,1,1-Trichloroethane	µg/L	SW8260C	24.0	20.00	0	120	67-147	7.49	25		4/3/2013 1111h
1304024-001AMSD	1,1-Dichloroethene	µg/L	SW8260C	24.9	20.00	0	125	51-152	7.2	25		4/3/2013 1111h
1304024-001AMSD	1,2-Dichlorobenzene	µg/L	SW8260C	19.2	20.00	0	95.9	70-130	6.56	25		4/3/2013 1111h
1304024-001AMSD	1,2-Dichloroethane	µg/L	SW8260C	22.4	20.00	0	112	39-162	8.52	25		4/3/2013 1111h
1304024-001AMSD	1,2-Dichloropropane	µg/L	SW8260C	18.7	20.00	0	93.3	59-135	7.58	25		4/3/2013 1111h
1304024-001AMSD	Benzene	µg/L	SW8260C	20.3	20.00	0	101	66-145	7.37	25		4/3/2013 1111h
1304024-001AMSD	Chlorobenzene	µg/L	SW8260C	19.2	20.00	0	96.2	63-140	7.21	25		4/3/2013 1111h
1304024-001AMSD	Chloroform	µg/L	SW8260C	21.1	20.00	0	105	50-146	7.36	25		4/3/2013 1111h
1304024-001AMSD	Ethylbenzene	µg/L	SW8260C	19.5	20.00	0	97.3	69-133	7.23	25		4/3/2013 1111h
1304024-001AMSD	Isopropylbenzene	µg/L	SW8260C	20.1	20.00	0	100	60-147	7.8	25		4/3/2013 1111h
1304024-001AMSD	Methyl tert-butyl ether	µg/L	SW8260C	23.7	20.00	0	118	37-189	3.39	25		4/3/2013 1111h
1304024-001AMSD	Methylene chloride	µg/L	SW8260C	22.3	20.00	0	111	30-192	10.1	25		4/3/2013 1111h
1304024-001AMSD	Naphthalene	µg/L	SW8260C	19.3	20.00	0	96.4	41-131	7.1	25		4/3/2013 1111h
1304024-001AMSD	Tetrahydrofuran	µg/L	SW8260C	21.1	20.00	0	106	43-146	5.85	25		4/3/2013 1111h
1304024-001AMSD	Toluene	µg/L	SW8260C	19.4	20.00	0	96.9	18-192	6.88	25		4/3/2013 1111h
1304024-001AMSD	Trichloroethene	µg/L	SW8260C	21.2	20.00	0	106	61-153	7.02	25		4/3/2013 1111h
1304024-001AMSD	Xylenes, Total	µg/L	SW8260C	58.7	60.00	0	97.8	42-167	7.49	25		4/3/2013 1111h
1304024-001AMSD	Surr: 1,2-Dichloroethane-d4	%REC	SW8260C	56.5	50.00		113	72-151				4/3/2013 1111h
1304024-001AMSD	Surr: 4-Bromofluorobenzene	%REC	SW8260C	47.4	50.00		94.8	80-128				4/3/2013 1111h
1304024-001AMSD	Surr: Dibromofluoromethane	%REC	SW8260C	49.7	50.00		99.5	80-124				4/3/2013 1111h
1304024-001AMSD	Surr: Toluene-d8	%REC	SW8260C	45.2	50.00		90.3	77-129				4/3/2013 1111h
1304061-001AMSD	1,1,1-Trichloroethane	µg/L	SW8260C	25.1	20.00	0	125	67-147	2.46	25		4/2/2013 1842h
1304061-001AMSD	1,1-Dichloroethene	µg/L	SW8260C	25.7	20.00	0	128	51-152	2.64	25		4/2/2013 1842h
1304061-001AMSD	1,2-Dichlorobenzene	µg/L	SW8260C	19.7	20.00	0	98.6	70-130	1.59	25		4/2/2013 1842h
1304061-001AMSD	1,2-Dichloroethane	µg/L	SW8260C	22.6	20.00	0	113	39-162	2.46	25		4/2/2013 1842h
1304061-001AMSD	1,2-Dichloropropane	µg/L	SW8260C	19.8	20.00	0	98.9	59-135	3.18	25		4/2/2013 1842h
1304061-001AMSD	Benzene	µg/L	SW8260C	21.3	20.00	0	106	66-145	2.57	25		4/2/2013 1842h

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

QC SUMMARY REPORT

Client: Utah Division of Water Quality
Lab Set ID: 1304061
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
1304061-001AMSD	Chlorobenzene	µg/L	SW8260C	19.7	20.00	0	98.6	63-140	1.43	25		4/2/2013 1842h
1304061-001AMSD	Chloroform	µg/L	SW8260C	22.0	20.00	0	110	50-146	1.79	25		4/2/2013 1842h
1304061-001AMSD	Ethylbenzene	µg/L	SW8260C	20.0	20.00	0	100	69-133	0.746	25		4/2/2013 1842h
1304061-001AMSD	Isopropylbenzene	µg/L	SW8260C	21.1	20.00	0	105	60-147	1.72	25		4/2/2013 1842h
1304061-001AMSD	Methyl tert-butyl ether	µg/L	SW8260C	15.1	20.00	0	75.5	37-189	9.8	25		4/2/2013 1842h
1304061-001AMSD	Methylene chloride	µg/L	SW8260C	23.1	20.00	0	116	30-192	1.57	25		4/2/2013 1842h
1304061-001AMSD	Naphthalene	µg/L	SW8260C	17.9	20.00	0	89.4	41-131	2.95	25		4/2/2013 1842h
1304061-001AMSD	Tetrahydrofuran	µg/L	SW8260C	11.8	20.00	0	59.2	43-146	12.4	25		4/2/2013 1842h
1304061-001AMSD	Toluene	µg/L	SW8260C	19.9	20.00	0	99.6	18-192	0.655	25		4/2/2013 1842h
1304061-001AMSD	Trichloroethene	µg/L	SW8260C	22.1	20.00	0	111	61-153	4.29	25		4/2/2013 1842h
1304061-001AMSD	Xylenes, Total	µg/L	SW8260C	60.7	60.00	0	101	42-167	0.744	25		4/2/2013 1842h
1304061-001AMSD	Surr: 1,2-Dichloroethane-d4	%REC	SW8260C	57.0	50.00		114	72-151				4/2/2013 1842h
1304061-001AMSD	Surr: 4-Bromofluorobenzene	%REC	SW8260C	47.9	50.00		95.9	80-128				4/2/2013 1842h
1304061-001AMSD	Surr: Dibromofluoromethane	%REC	SW8260C	49.9	50.00		99.8	80-124				4/2/2013 1842h
1304061-001AMSD	Surr: Toluene-d8	%REC	SW8260C	45.8	50.00		91.7	77-129				4/2/2013 1842h

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.

Data File C:\CHEM32\1\DATA\0402-TPH 2013-04-02 14-20-48\025F2901.D
Sample Name: 1304061-001C

```
==================================================================
Acq. Operator   :                                Seq. Line :  29
Acq. Instrument : GC C                            Location : Vial 25
Injection Date  : 4/3/2013 1:08:39 AM                  Inj :   1
                                                Inj Volume : 5 µl
Acq. Method     : C:\CHEM32\1\DATA\0402-TPH 2013-04-02 14-20-48\TPH-FRONT-1090171B.M
Last changed    : 3/14/2013 1:57:38 PM
Analysis Method : C:\CHEM32\1\DATA\0402-TPH 2013-04-02 14-20-48\TPH-FRONT-1090171B.M (Sequence
                  Method)
Last changed    : 4/3/2013 4:41:46 PM
                  (modified after loading)
==================================================================
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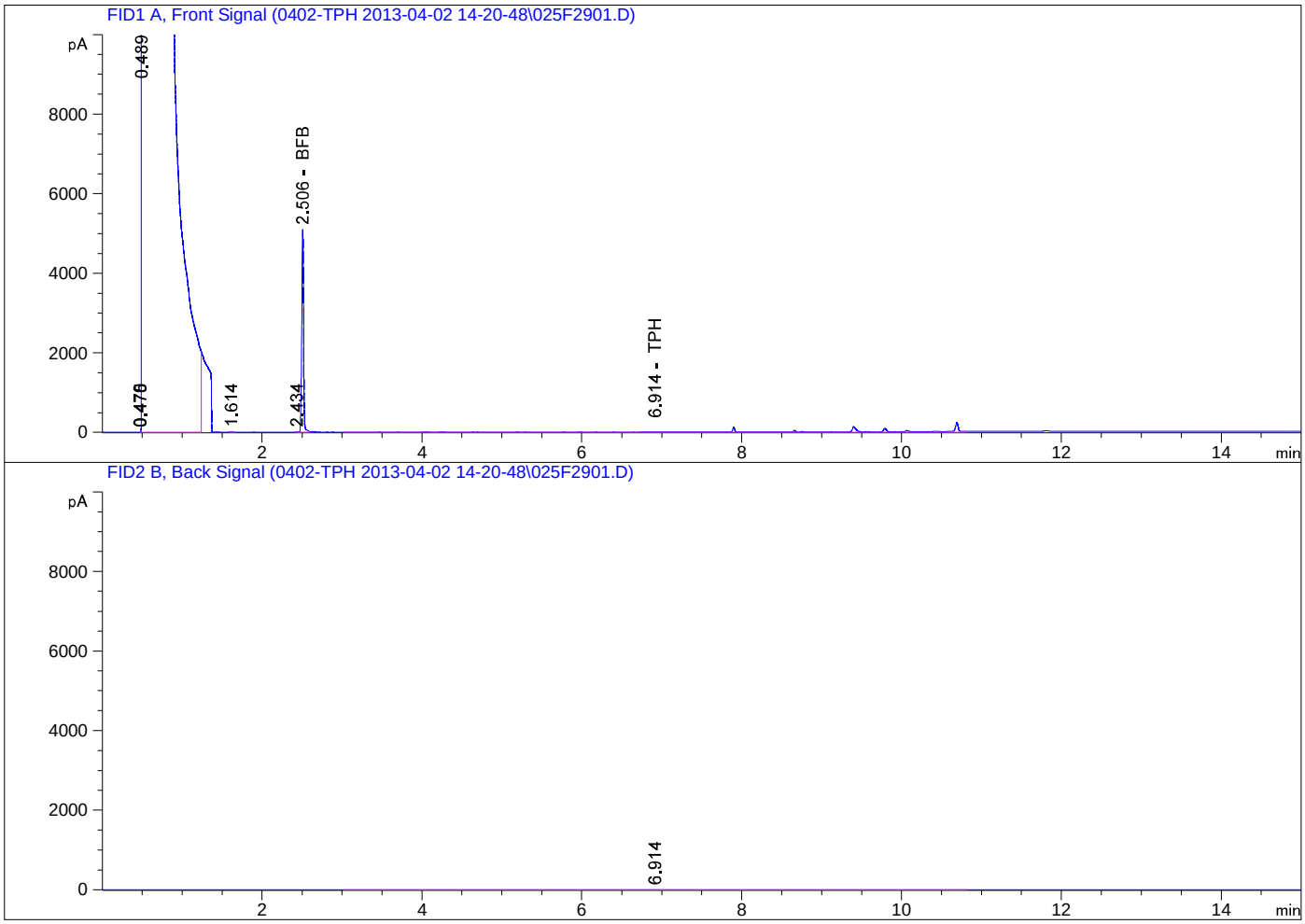


```
==================================================================
                      External Standard Report
==================================================================

Sorted By             :      Signal
Calib. Data Modified  :      4/3/2013 4:41:46 PM
Multiplier:                   :      1.0000
Dilution:                     :      1.0000
Do not use Multiplier & Dilution Factor with ISTDs
```

Data File C:\CHEM32\1\DATA\0402-TPH 2013-04-02 14-20-48\026F3001.D
Sample Name: 1304061-002C

==========

Acq. Operator : Seq. Line : 30
Acq. Instrument : GC C Location : Vial 26
Injection Date : 4/3/2013 1:27:58 AM Inj : 1
Inj Volume : 5 µl
Acq. Method : C:\CHEM32\1\DATA\0402-TPH 2013-04-02 14-20-48\TPH-FRONT-1090171B.M
Last changed : 3/14/2013 1:57:38 PM
Analysis Method : C:\CHEM32\1\DATA\0402-TPH 2013-04-02 14-20-48\TPH-FRONT-1090171B.M (Sequence Method)
Last changed : 4/3/2013 4:41:46 PM
(modified after loading)

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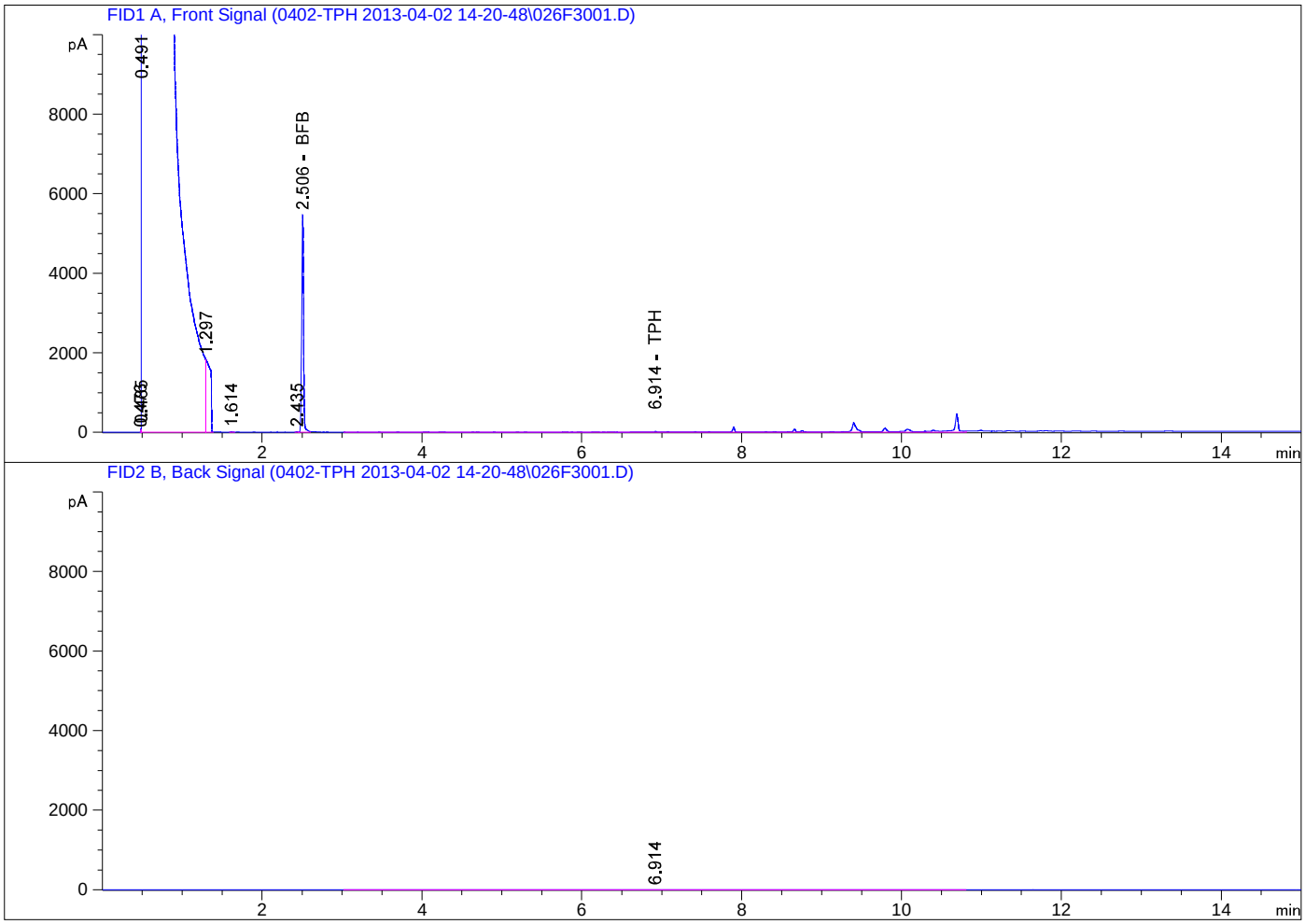

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External Standard Report

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Sorted By : Signal
Calib. Data Modified : 4/3/2013 4:41:46 PM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Data File C:\CHEM32\1\DATA\0402-TPH 2013-04-02 14-20-48\027F3101.D
Sample Name: 1304061-003C

==========

Acq. Operator : Seq. Line : 31
Acq. Instrument : GC C Location : Vial 27
Injection Date : 4/3/2013 1:47:11 AM Inj : 1
Inj Volume : 5 µl
Acq. Method : C:\CHEM32\1\DATA\0402-TPH 2013-04-02 14-20-48\TPH-FRONT-1090171B.M
Last changed : 3/14/2013 1:57:38 PM
Analysis Method : C:\CHEM32\1\DATA\0402-TPH 2013-04-02 14-20-48\TPH-FRONT-1090171B.M (Sequence Method)
Last changed : 4/3/2013 4:41:46 PM
(modified after loading)

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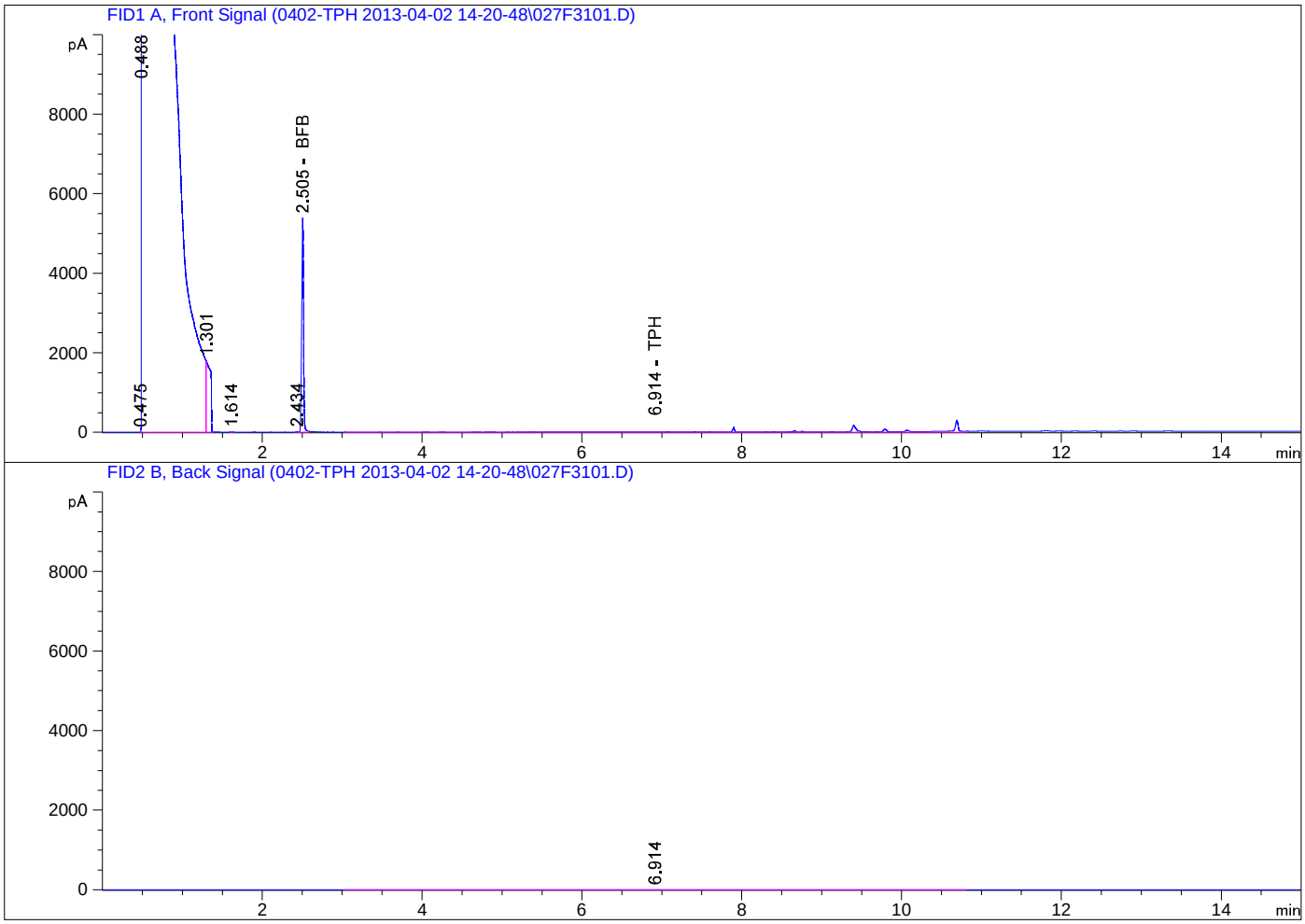

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External Standard Report

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Sorted By : Signal
Calib. Data Modified : 4/3/2013 4:41:46 PM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Data File C:\CHEM32\1\DATA\0402-TPH 2013-04-02 14-20-48\028F3201.D
Sample Name: 1304061-004C

```
==================================================================
Acq. Operator   :                                Seq. Line :  32
Acq. Instrument : GC C                            Location : Vial 28
Injection Date  : 4/3/2013 2:06:22 AM                  Inj :   1
                                                Inj Volume : 5 µl
Acq. Method     : C:\CHEM32\1\DATA\0402-TPH 2013-04-02 14-20-48\TPH-FRONT-1090171B.M
Last changed    : 3/14/2013 1:57:38 PM
Analysis Method : C:\CHEM32\1\DATA\0402-TPH 2013-04-02 14-20-48\TPH-FRONT-1090171B.M (Sequence
                  Method)
Last changed    : 4/3/2013 4:41:46 PM
                  (modified after loading)
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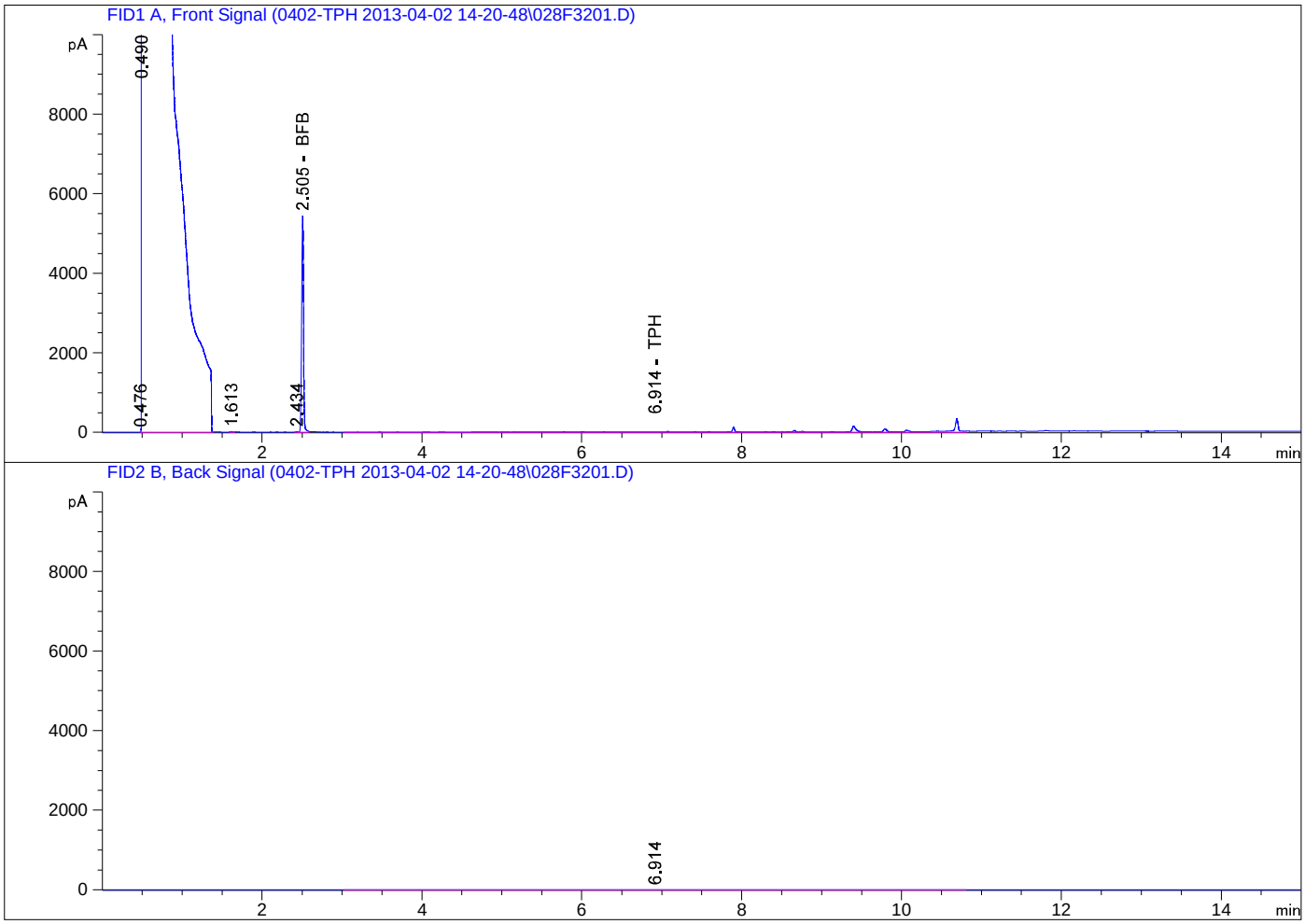


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==================================================================
                      External Standard Report
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Sorted By             :      Signal
Calib. Data Modified  :      4/3/2013 4:41:46 PM
Multiplier:                   :      1.0000
Dilution:                     :      1.0000
Do not use Multiplier & Dilution Factor with ISTDs
```

Data File C:\CHEM32\1\DATA\0402-TPH 2013-04-02 14-20-48\029F3301.D
Sample Name: 1304061-005C

```
==================================================================
Acq. Operator   :                                Seq. Line :  33
Acq. Instrument : GC C                            Location : Vial 29
Injection Date  : 4/3/2013 2:25:34 AM                  Inj :   1
                                                Inj Volume : 5 µl
Acq. Method     : C:\CHEM32\1\DATA\0402-TPH 2013-04-02 14-20-48\TPH-FRONT-1090171B.M
Last changed    : 3/14/2013 1:57:38 PM
Analysis Method : C:\CHEM32\1\DATA\0402-TPH 2013-04-02 14-20-48\TPH-FRONT-1090171B.M (Sequence
                  Method)
Last changed    : 4/3/2013 4:41:46 PM
                  (modified after loading)
==================================================================
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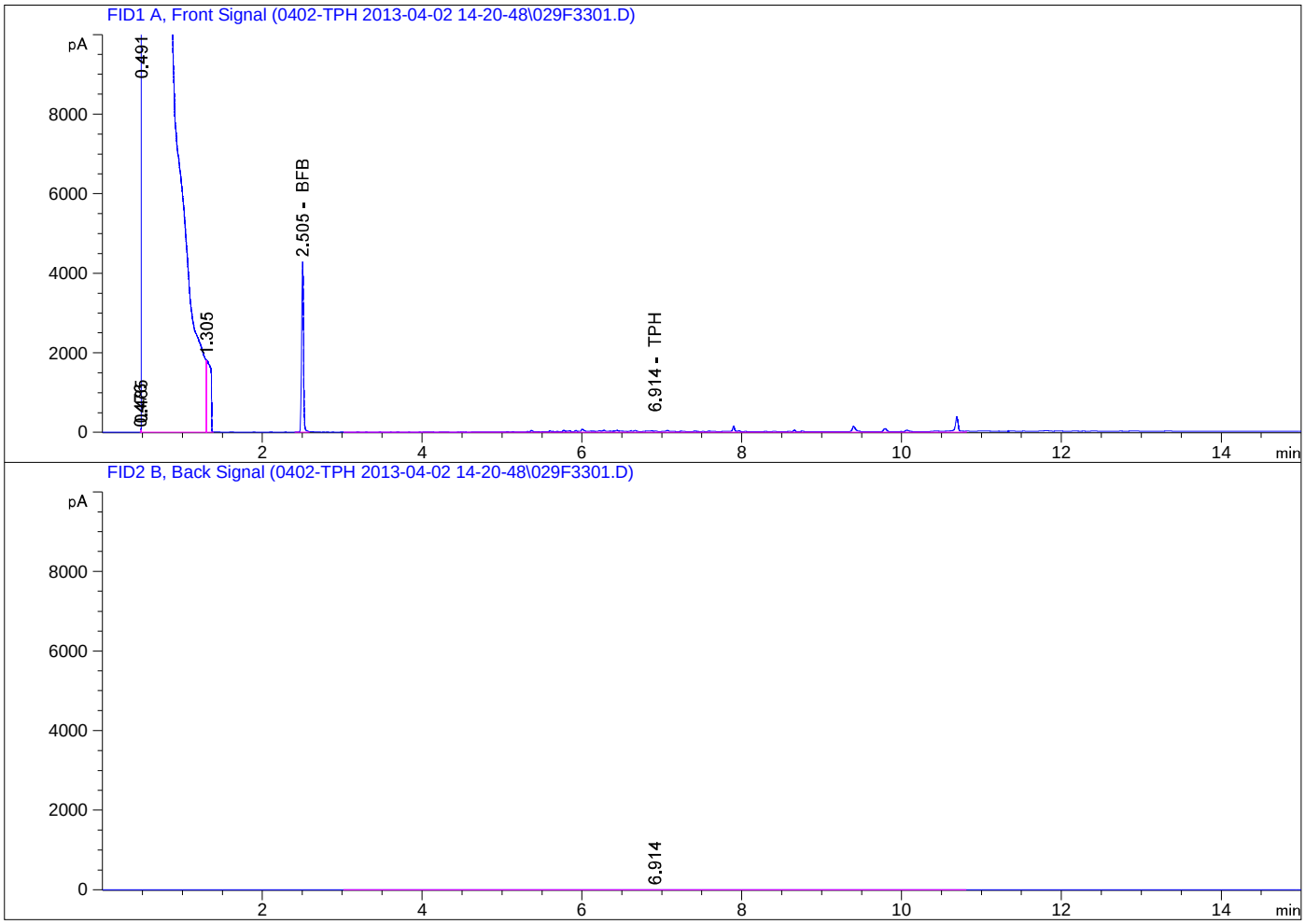


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==================================================================
                      External Standard Report
==================================================================

Sorted By             :      Signal
Calib. Data Modified  :      4/3/2013 4:41:46 PM
Multiplier:                   :      1.0000
Dilution:                     :      1.0000
Do not use Multiplier & Dilution Factor with ISTDs
```

Data File C:\CHEM32\1\DATA\0402-TPH 2013-04-02 14-20-48\030F3401.D
Sample Name: 1304061-006C

==========

Acq. Operator : Seq. Line : 34
Acq. Instrument : GC C Location : Vial 30
Injection Date : 4/3/2013 2:44:47 AM Inj : 1
Inj Volume : 5 µl
Acq. Method : C:\CHEM32\1\DATA\0402-TPH 2013-04-02 14-20-48\TPH-FRONT-1090171B.M
Last changed : 3/14/2013 1:57:38 PM
Analysis Method : C:\CHEM32\1\DATA\0402-TPH 2013-04-02 14-20-48\TPH-FRONT-1090171B.M (Sequence Method)
Last changed : 4/3/2013 4:41:46 PM
(modified after loading)

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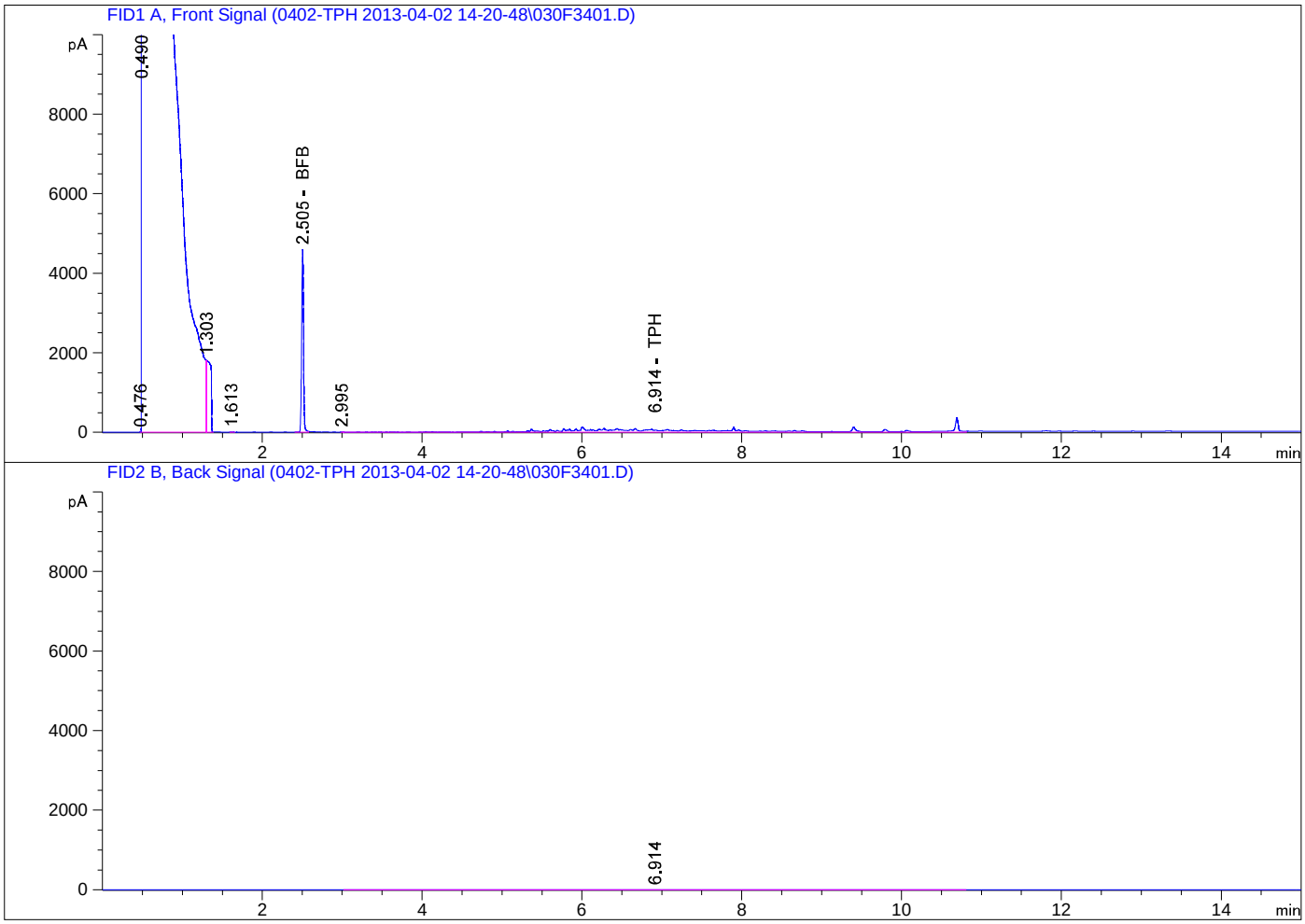

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External Standard Report

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Sorted By : Signal
Calib. Data Modified : 4/3/2013 4:41:46 PM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Data File C:\CHEM32\1\DATA\0402-TPH 2013-04-02 14-20-48\031F3501.D
Sample Name: 1304061-007C

```
==================================================================
Acq. Operator   :                                Seq. Line :  35
Acq. Instrument : GC C                            Location : Vial 31
Injection Date  : 4/3/2013 3:04:00 AM                  Inj :   1
                                                Inj Volume : 5 µl
Acq. Method     : C:\CHEM32\1\DATA\0402-TPH 2013-04-02 14-20-48\TPH-FRONT-1090171B.M
Last changed    : 3/14/2013 1:57:38 PM
Analysis Method : C:\CHEM32\1\DATA\0402-TPH 2013-04-02 14-20-48\TPH-FRONT-1090171B.M (Sequence
                  Method)
Last changed    : 4/3/2013 4:41:46 PM
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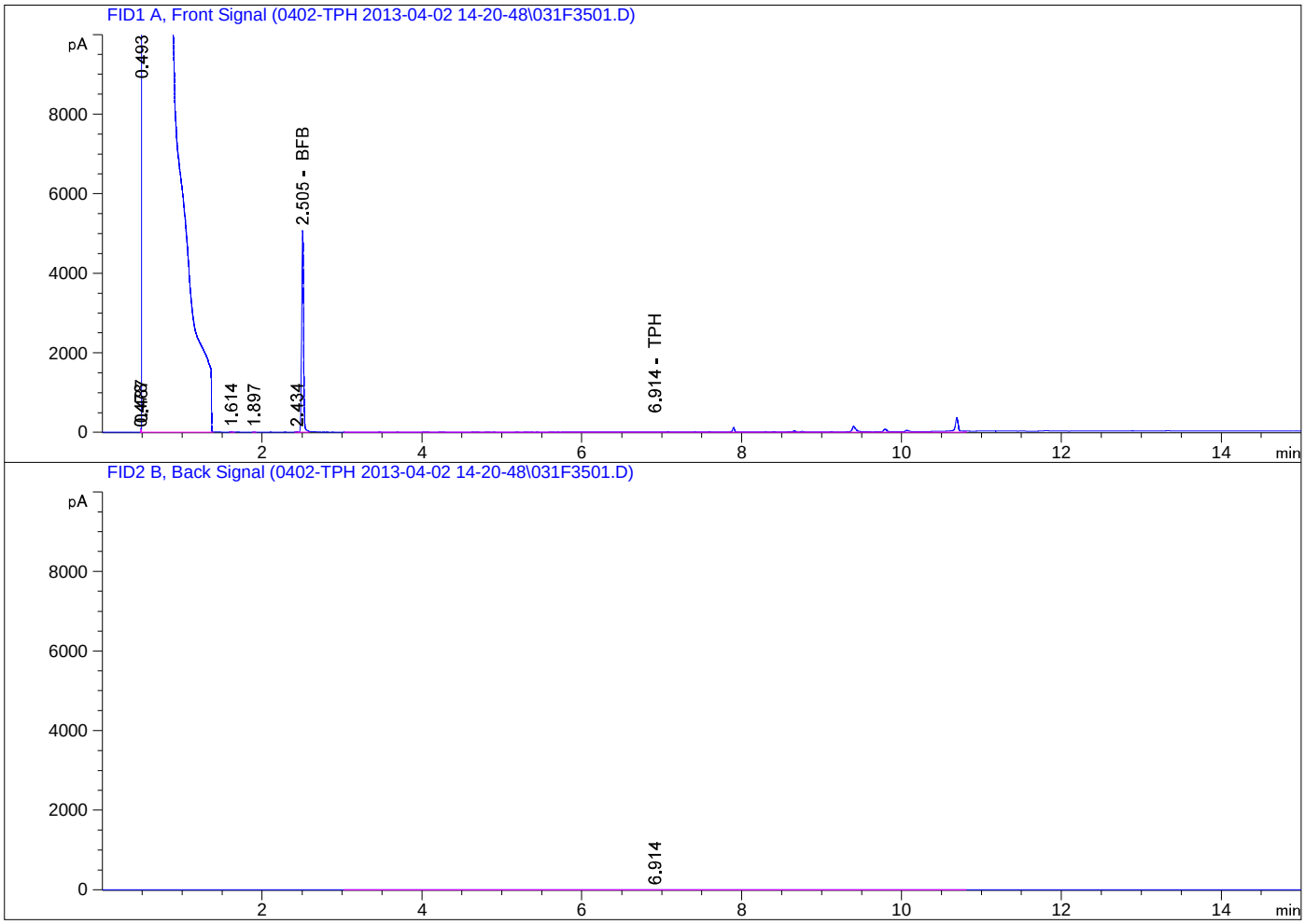


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==================================================================
                      External Standard Report
==================================================================

Sorted By             :      Signal
Calib. Data Modified  :      4/3/2013 4:41:46 PM
Multiplier:                   :      1.0000
Dilution:                     :      1.0000
Do not use Multiplier & Dilution Factor with ISTDs
```

Data File C:\CHEM32\1\DATA\0402-TPH 2013-04-02 14-20-48\032F3601.D
Sample Name: 1304061-008C

```
==================================================================
Acq. Operator   :                                Seq. Line :  36
Acq. Instrument : GC C                            Location : Vial 32
Injection Date  : 4/3/2013 3:23:13 AM                  Inj :   1
                                                Inj Volume : 5 µl
Acq. Method     : C:\CHEM32\1\DATA\0402-TPH 2013-04-02 14-20-48\TPH-FRONT-1090171B.M
Last changed    : 3/14/2013 1:57:38 PM
Analysis Method : C:\CHEM32\1\DATA\0402-TPH 2013-04-02 14-20-48\TPH-FRONT-1090171B.M (Sequence
                  Method)
Last changed    : 4/3/2013 4:41:46 PM
                  (modified after loading)
==================================================================
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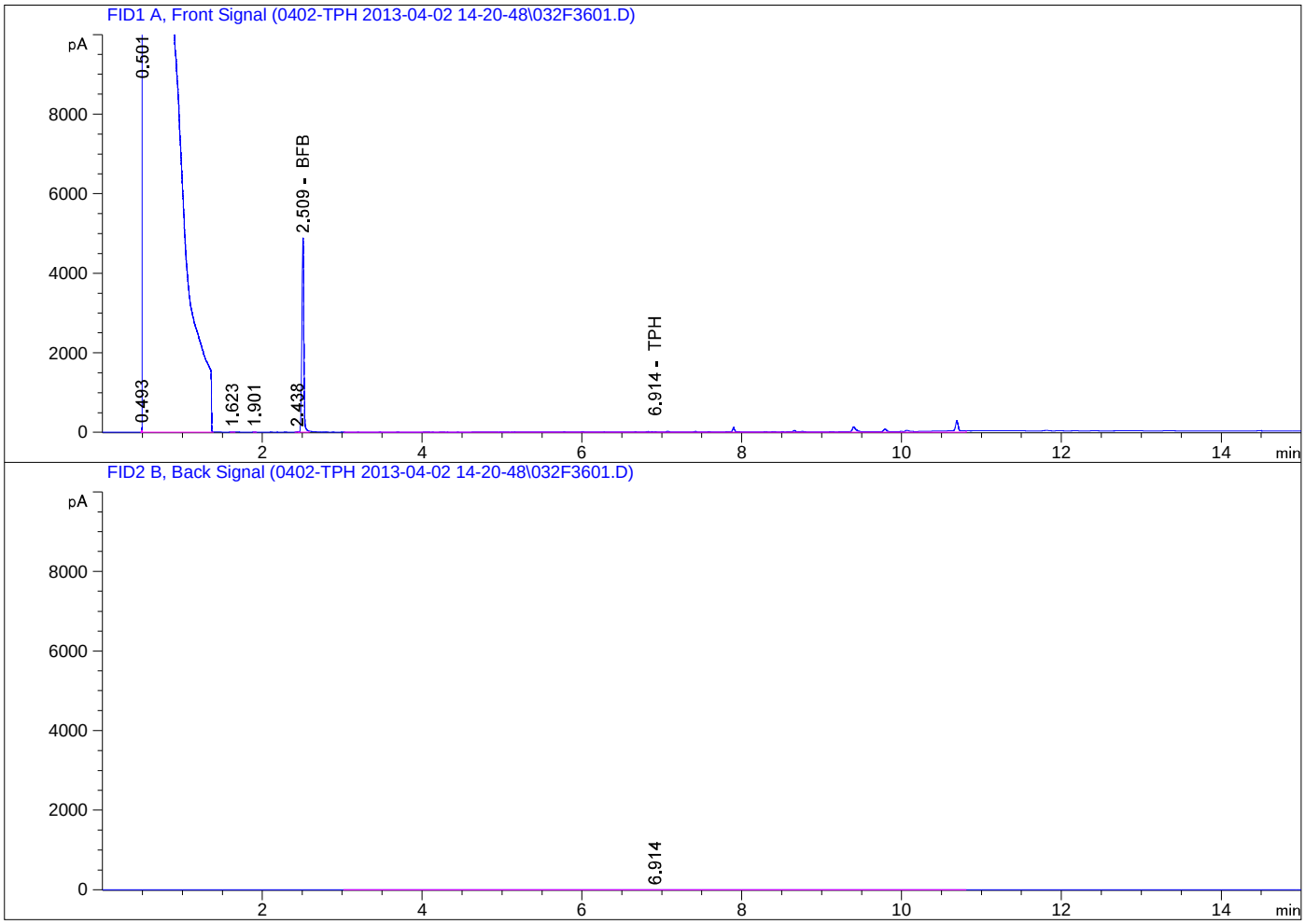


```
==================================================================
                      External Standard Report
==================================================================

Sorted By             :      Signal
Calib. Data Modified  :      4/3/2013 4:41:46 PM
Multiplier:                   :      1.0000
Dilution:                     :      1.0000
Do not use Multiplier & Dilution Factor with ISTDs
```

Data File C:\CHEM32\1\DATA\0402-TPH 2013-04-02 14-20-48\033F3701.D
Sample Name: 1304061-009C

```
==================================================================
Acq. Operator   :                                Seq. Line :  37
Acq. Instrument : GC C                            Location : Vial 33
Injection Date  : 4/3/2013 3:42:22 AM                  Inj :   1
                                                Inj Volume : 5 µl
Acq. Method     : C:\CHEM32\1\DATA\0402-TPH 2013-04-02 14-20-48\TPH-FRONT-1090171B.M
Last changed    : 3/14/2013 1:57:38 PM
Analysis Method : C:\CHEM32\1\DATA\0402-TPH 2013-04-02 14-20-48\TPH-FRONT-1090171B.M (Sequence
                  Method)
Last changed    : 4/3/2013 4:41:46 PM
                  (modified after loading)
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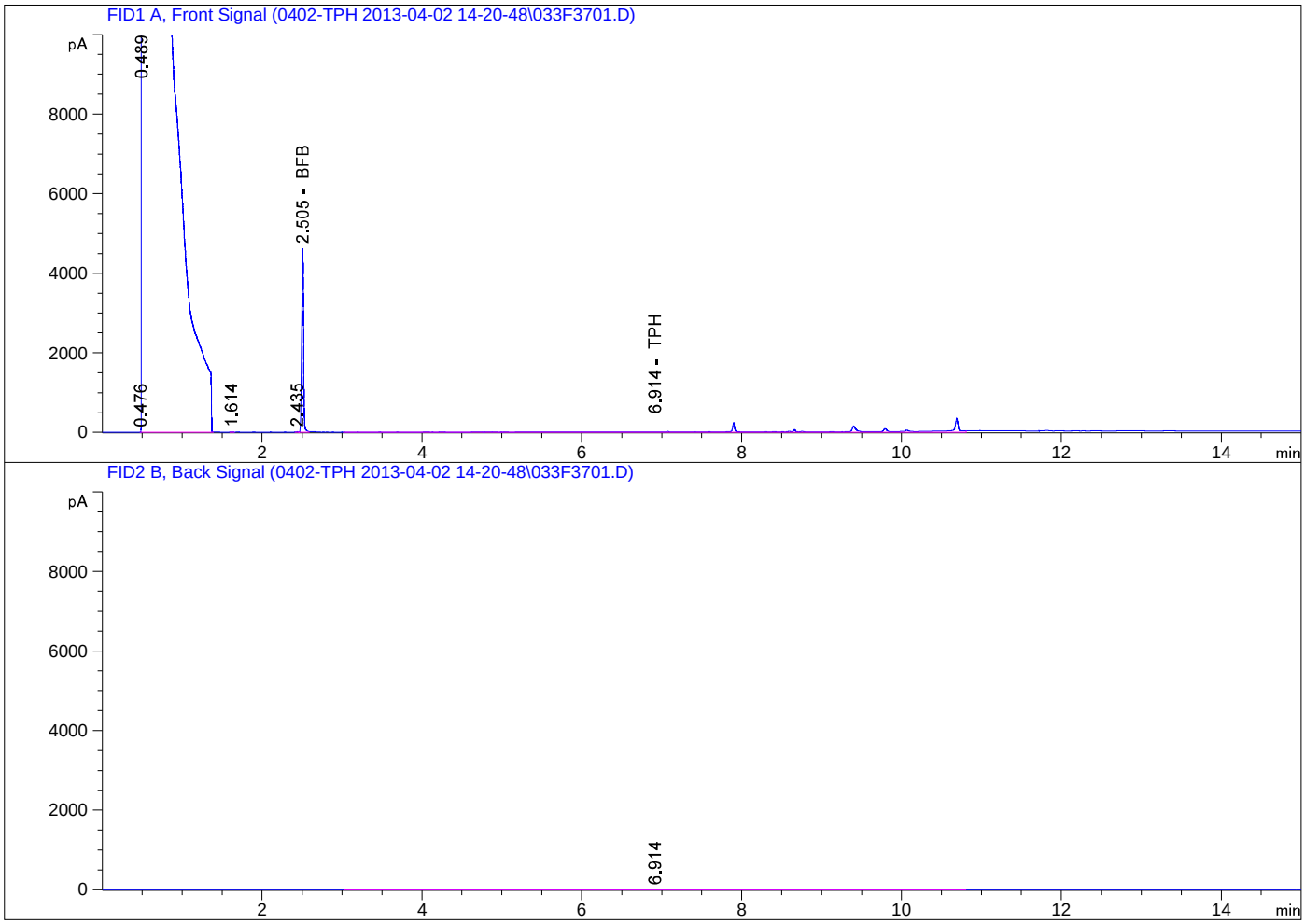


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==================================================================
                      External Standard Report
==================================================================

Sorted By             :      Signal
Calib. Data Modified  :      4/3/2013 4:41:46 PM
Multiplier:                   :      1.0000
Dilution:                     :      1.0000
Do not use Multiplier & Dilution Factor with ISTDs
```

Data File C:\CHEM32\1\DATA\0402-TPH 2013-04-02 14-20-48\034F3801.D
Sample Name: 1304061-010C

==========

Acq. Operator : Seq. Line : 38
Acq. Instrument : GC C Location : Vial 34
Injection Date : 4/3/2013 4:01:35 AM Inj : 1
Inj Volume : 5 µl
Acq. Method : C:\CHEM32\1\DATA\0402-TPH 2013-04-02 14-20-48\TPH-FRONT-1090171B.M
Last changed : 3/14/2013 1:57:38 PM
Analysis Method : C:\CHEM32\1\DATA\0402-TPH 2013-04-02 14-20-48\TPH-FRONT-1090171B.M (Sequence Method)
Last changed : 4/3/2013 4:41:46 PM
(modified after loading)

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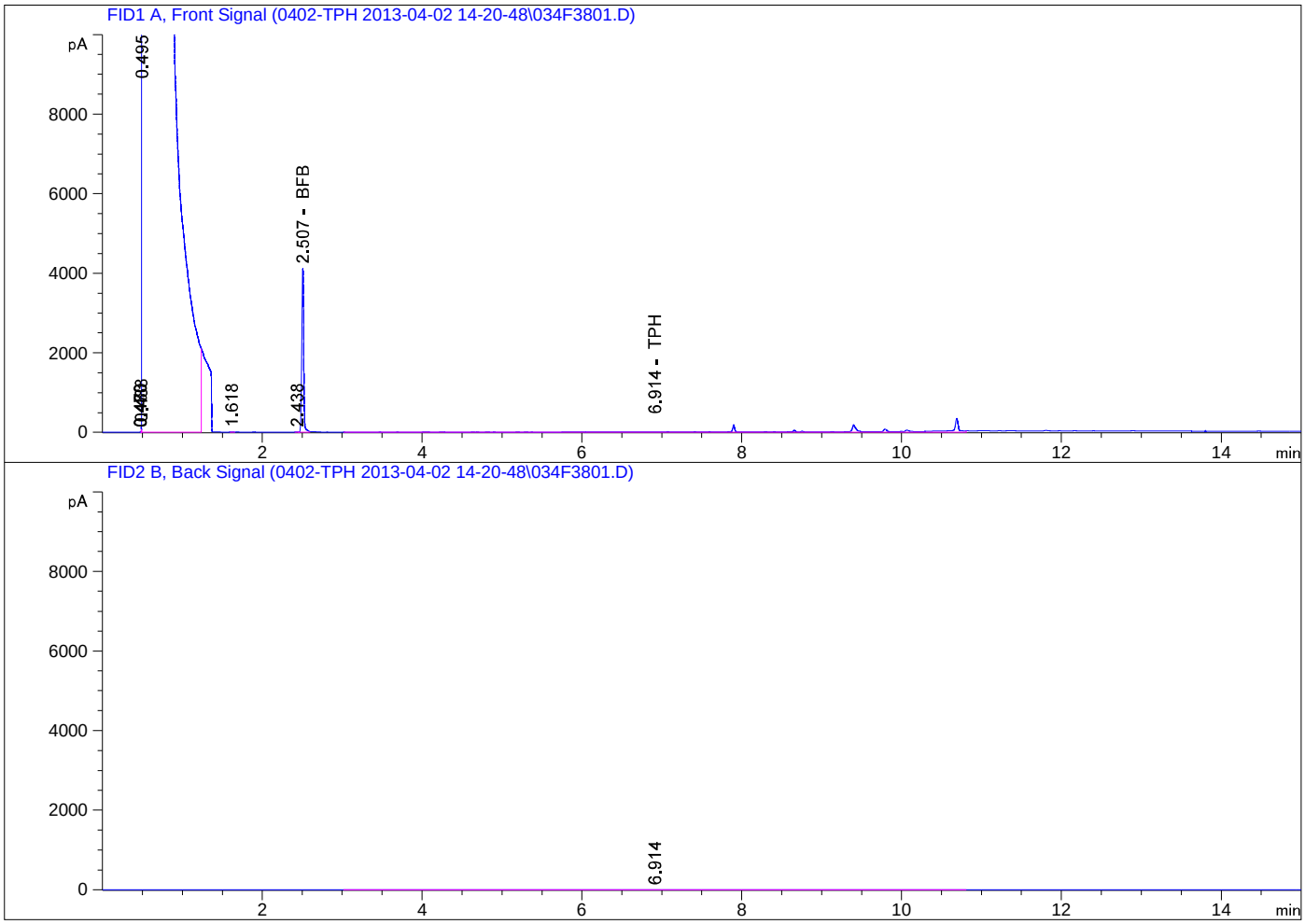

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External Standard Report

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Sorted By : Signal
Calib. Data Modified : 4/3/2013 4:41:46 PM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Data File C:\CHEM32\1\DATA\0402-TPH 2013-04-02 14-20-48\036F4301.D
Sample Name: 1304061-011C

==========

Acq. Operator : Seq. Line : 43
Acq. Instrument : GC C Location : Vial 36
Injection Date : 4/3/2013 5:37:19 AM Inj : 1
Inj Volume : 5 µl
Acq. Method : C:\CHEM32\1\DATA\0402-TPH 2013-04-02 14-20-48\TPH-FRONT-1090171B.M
Last changed : 3/14/2013 1:57:38 PM
Analysis Method : C:\CHEM32\1\DATA\0402-TPH 2013-04-02 14-20-48\TPH-FRONT-1090171B.M (Sequence Method)
Last changed : 4/3/2013 4:41:46 PM
(modified after loading)

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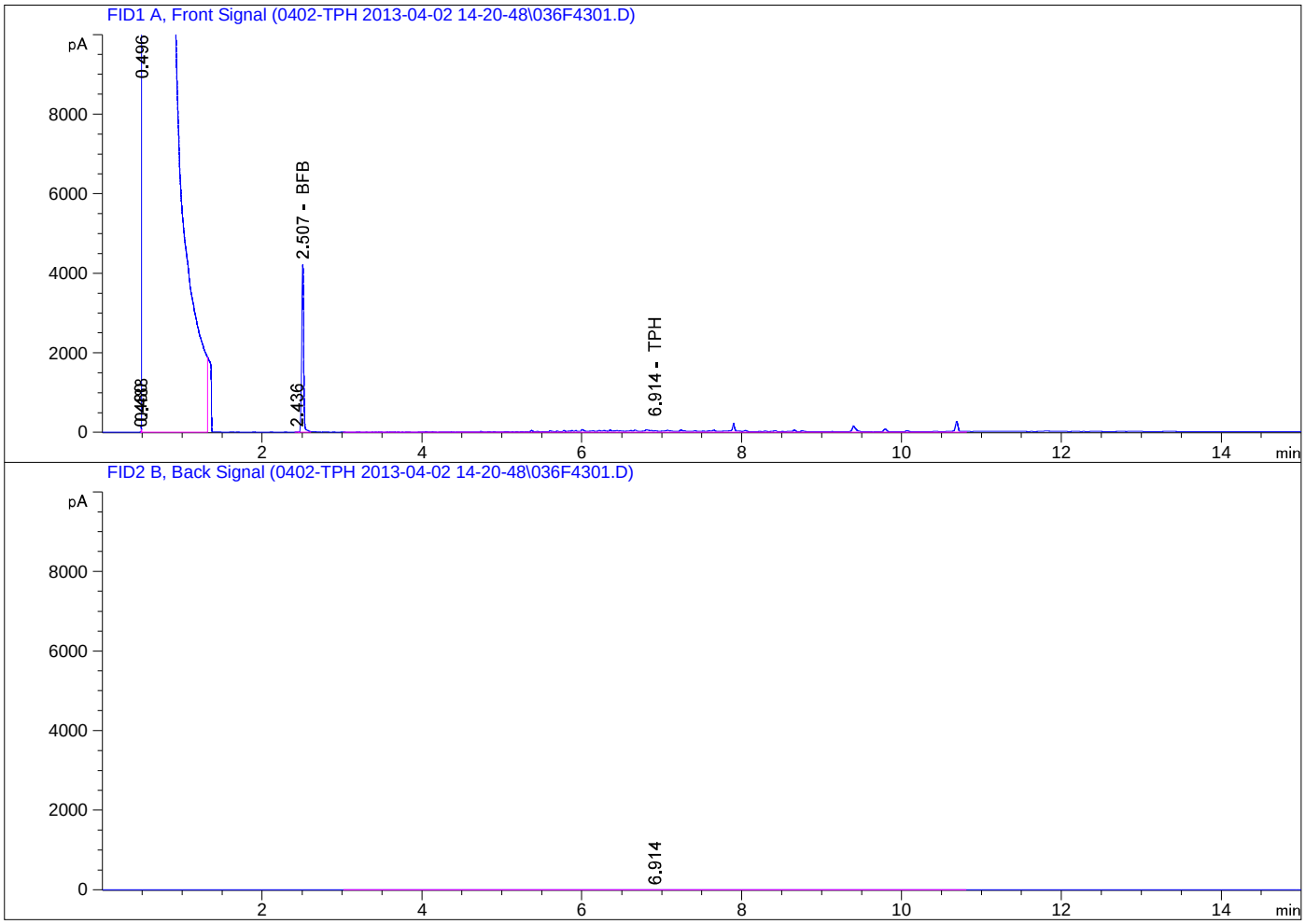

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External Standard Report

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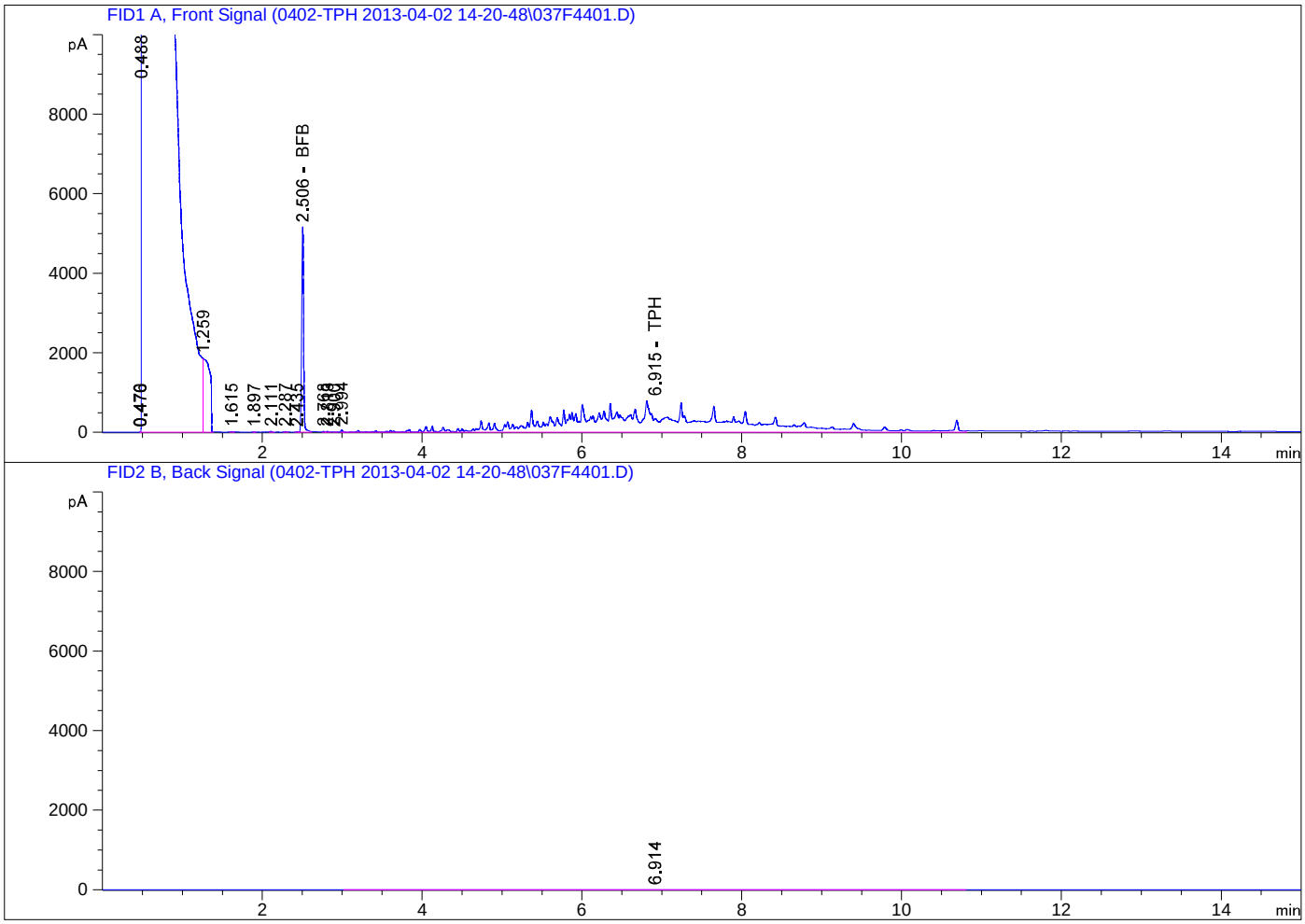
Sorted By : Signal
Calib. Data Modified : 4/3/2013 4:41:46 PM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Data File C:\CHEM32\1\DATA\0402-TPH 2013-04-02 14-20-48\037F4401.D
Sample Name: 1304061-012C

```
==================================================================
Acq. Operator   :                                Seq. Line :  44
Acq. Instrument : GC C                            Location : Vial 37
Injection Date  : 4/3/2013 5:56:23 AM                  Inj :   1
                                                Inj Volume : 5 µl
Acq. Method     : C:\CHEM32\1\DATA\0402-TPH 2013-04-02 14-20-48\TPH-FRONT-1090171B.M
Last changed    : 3/14/2013 1:57:38 PM
Analysis Method : C:\CHEM32\1\DATA\0402-TPH 2013-04-02 14-20-48\TPH-FRONT-1090171B.M (Sequence
                  Method)
Last changed    : 4/3/2013 4:41:46 PM
                  (modified after loading)
==================================================================
```




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

Sorted By             :      Signal
Calib. Data Modified  :      4/3/2013 4:41:46 PM
Multiplier:                   :      1.0000
Dilution:                     :      1.0000
Do not use Multiplier & Dilution Factor with ISTDs
```

Data File C:\CHEM32\1\DATA\0402-TPH 2013-04-02 14-20-48\038F4501.D
Sample Name: 1304061-013C

==========

Acq. Operator : Seq. Line : 45
Acq. Instrument : GC C Location : Vial 38
Injection Date : 4/3/2013 6:15:30 AM Inj : 1
Inj Volume : 5 µl
Acq. Method : C:\CHEM32\1\DATA\0402-TPH 2013-04-02 14-20-48\TPH-FRONT-1090171B.M
Last changed : 3/14/2013 1:57:38 PM
Analysis Method : C:\CHEM32\1\DATA\0402-TPH 2013-04-02 14-20-48\TPH-FRONT-1090171B.M (Sequence Method)
Last changed : 4/3/2013 4:41:46 PM
(modified after loading)

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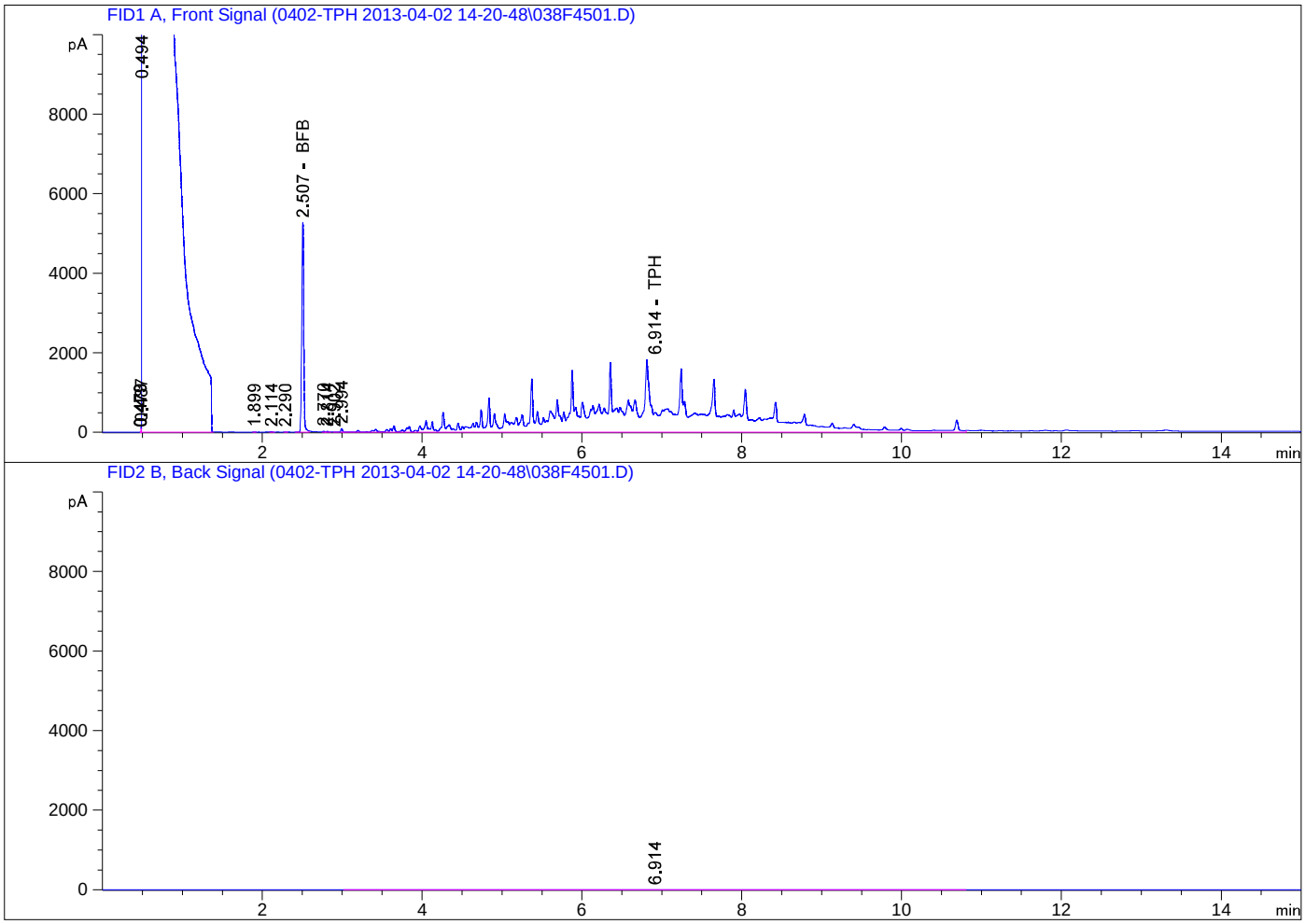

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External Standard Report

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Sorted By : Signal
Calib. Data Modified : 4/3/2013 4:41:46 PM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Data File C:\CHEM32\1\DATA\0402-TPH 2013-04-02 14-20-48\039F4601.D
Sample Name: 1304061-014C

==========

Acq. Operator : Seq. Line : 46
Acq. Instrument : GC C Location : Vial 39
Injection Date : 4/3/2013 6:34:41 AM Inj : 1
Inj Volume : 5 µl
Acq. Method : C:\CHEM32\1\DATA\0402-TPH 2013-04-02 14-20-48\TPH-FRONT-1090171B.M
Last changed : 3/14/2013 1:57:38 PM
Analysis Method : C:\CHEM32\1\DATA\0402-TPH 2013-04-02 14-20-48\TPH-FRONT-1090171B.M (Sequence Method)
Last changed : 4/3/2013 4:41:46 PM
(modified after loading)

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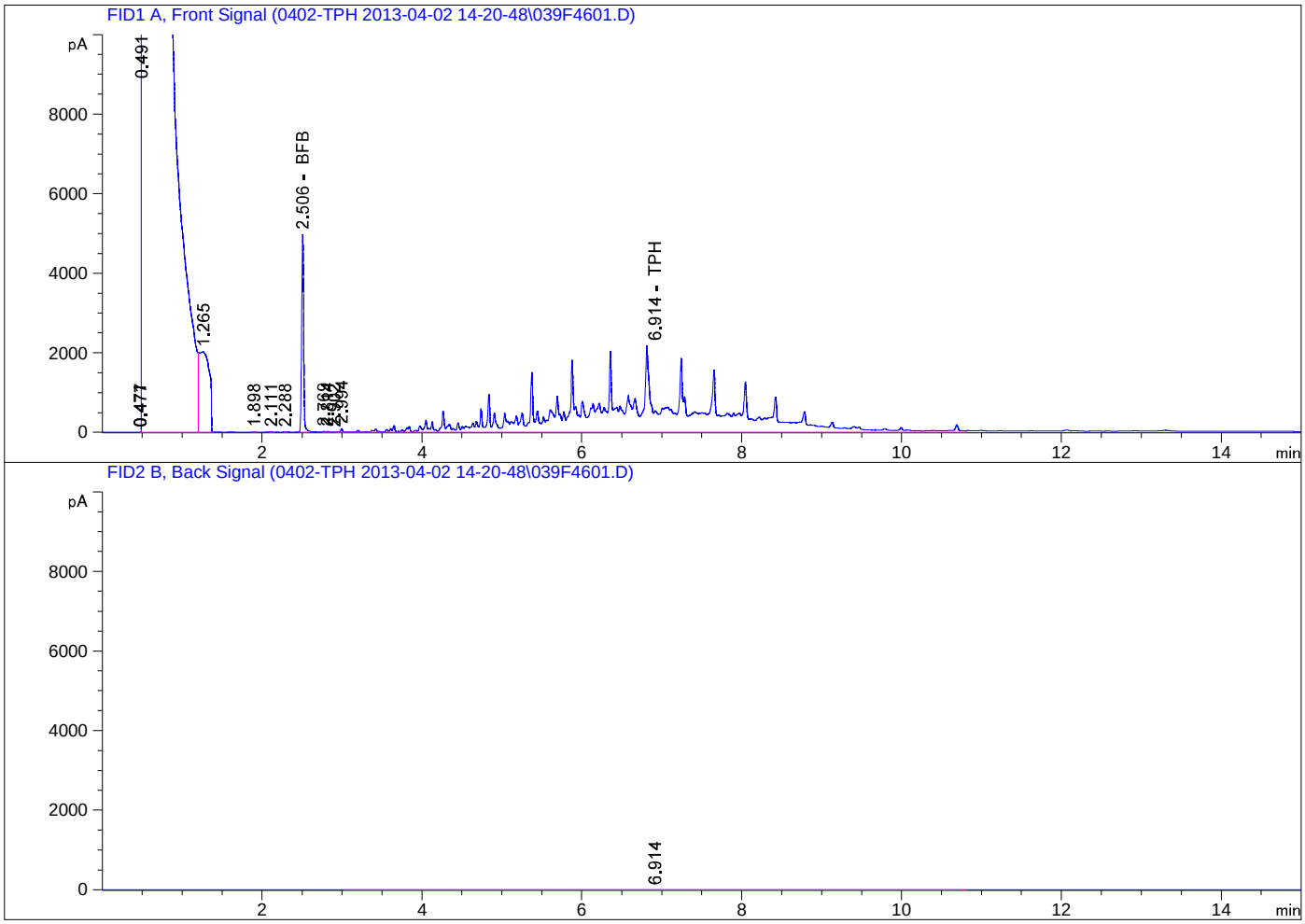

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External Standard Report

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Sorted By : Signal
Calib. Data Modified : 4/3/2013 4:41:46 PM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Data File C:\CHEM32\1\DATA\0402-TPH 2013-04-02 14-20-48\040F4701.D
Sample Name: 1304061-017C

==========

Acq. Operator : Seq. Line : 47
Acq. Instrument : GC C Location : Vial 40
Injection Date : 4/3/2013 6:53:46 AM Inj : 1
Inj Volume : 5 µl
Acq. Method : C:\CHEM32\1\DATA\0402-TPH 2013-04-02 14-20-48\TPH-FRONT-1090171B.M
Last changed : 3/14/2013 1:57:38 PM
Analysis Method : C:\CHEM32\1\DATA\0402-TPH 2013-04-02 14-20-48\TPH-FRONT-1090171B.M (Sequence Method)
Last changed : 4/3/2013 4:41:46 PM
(modified after loading)

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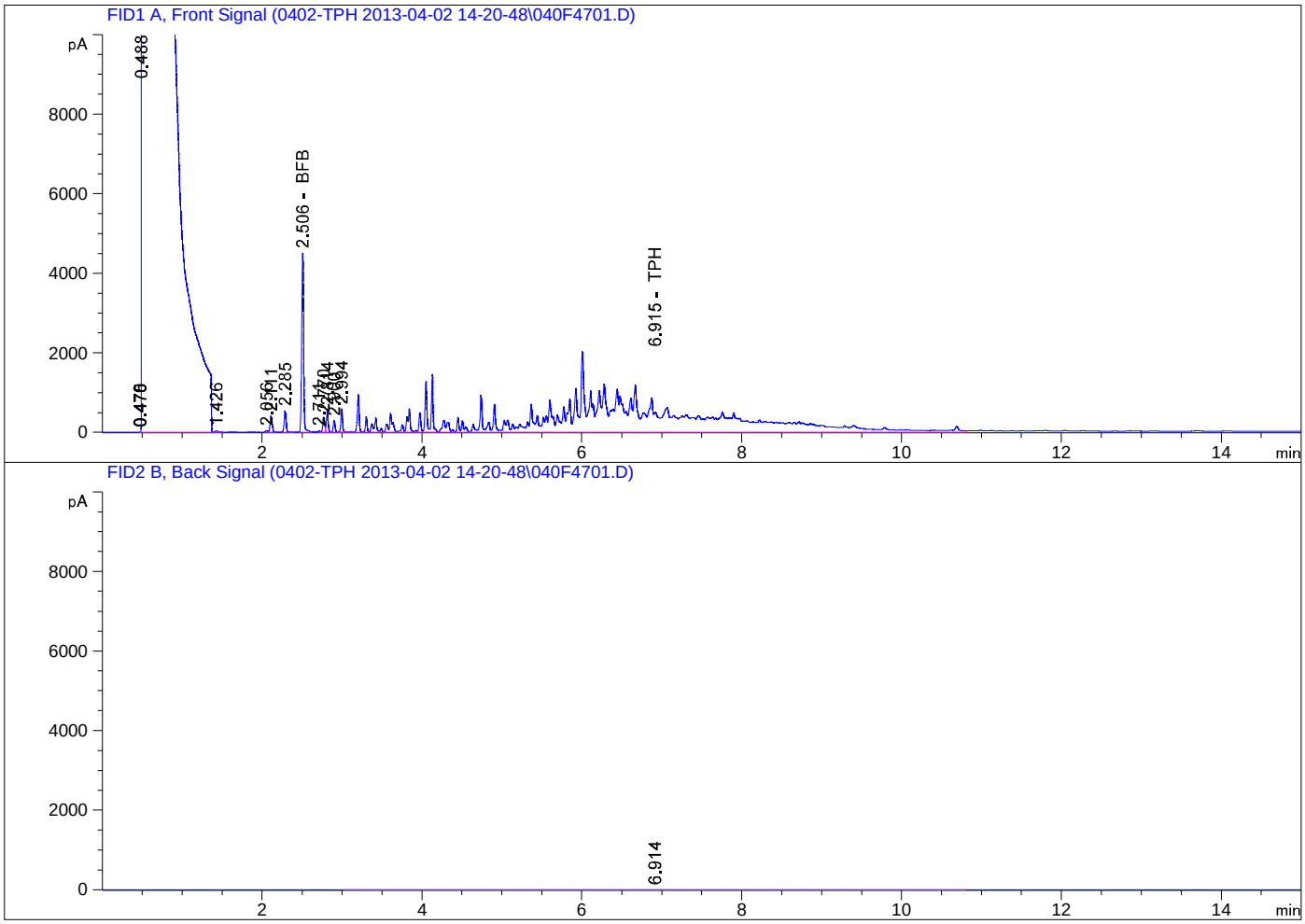

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External Standard Report

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Sorted By : Signal
Calib. Data Modified : 4/3/2013 4:41:46 PM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Data File C:\CHEM32\1\DATA\0402-TPH 2013-04-02 14-20-48\019F2101.D
Sample Name: LCS-24541

==========

Acq. Operator : Seq. Line : 21
Acq. Instrument : GC C Location : Vial 19
Injection Date : 4/2/2013 10:34:49 PM Inj : 1
Inj Volume : 5 µl
Acq. Method : C:\CHEM32\1\DATA\0402-TPH 2013-04-02 14-20-48\TPH-FRONT-1090171B.M
Last changed : 3/14/2013 1:57:38 PM
Analysis Method : C:\CHEM32\1\DATA\0402-TPH 2013-04-02 14-20-48\TPH-FRONT-1090171B.M (Sequence Method)
Last changed : 4/3/2013 4:41:46 PM
(modified after loading)

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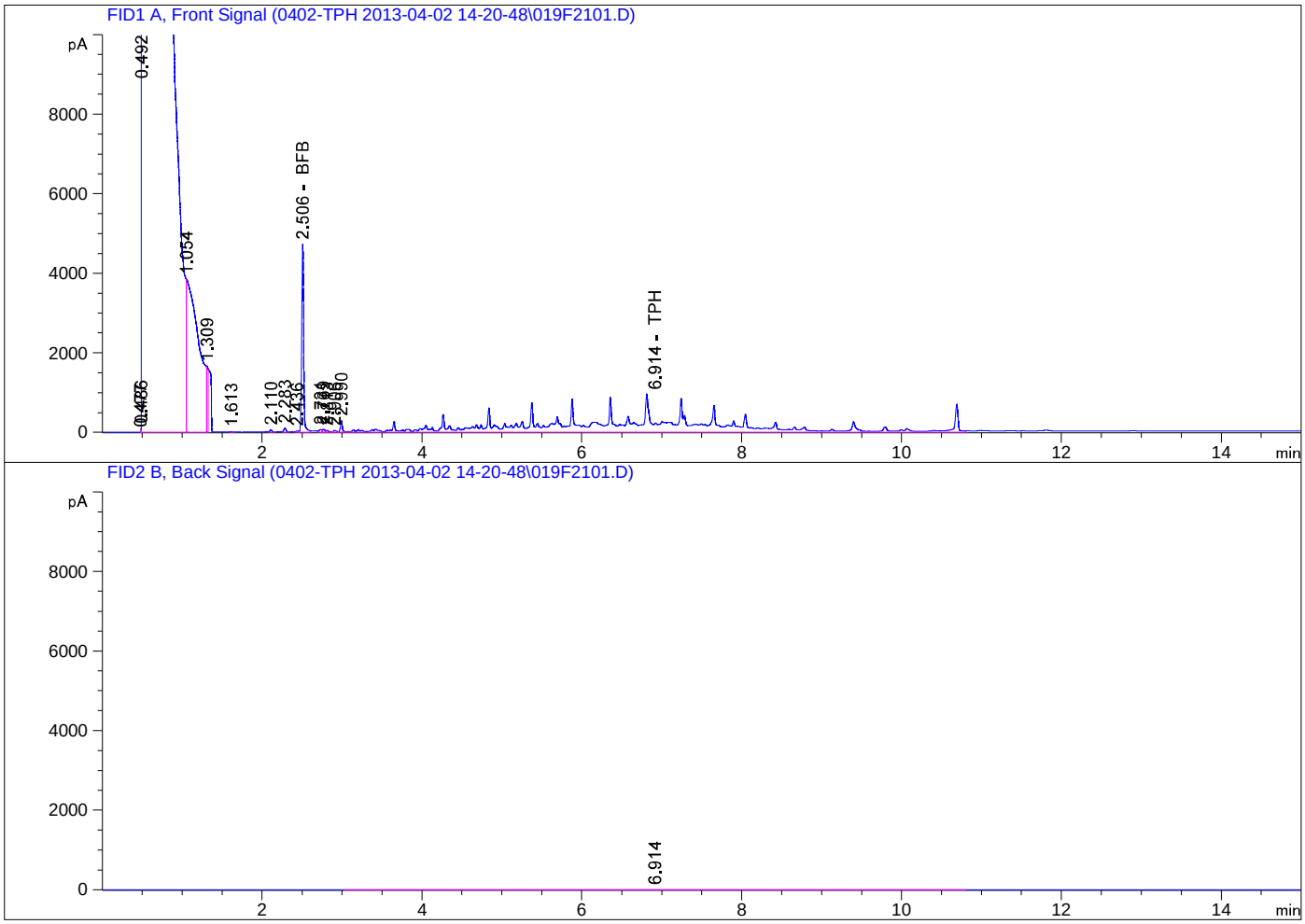

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External Standard Report

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Sorted By : Signal
Calib. Data Modified : 4/3/2013 4:41:46 PM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Data File C:\CHEM32\1\DATA\0402-TPH 2013-04-02 14-20-48\018F2001.D
Sample Name: MB-24541

```
==================================================================
Acq. Operator   :                                Seq. Line :  20
Acq. Instrument : GC C                            Location : Vial 18
Injection Date  : 4/2/2013 10:15:36 PM                 Inj :   1
                                                Inj Volume : 5 µl
Acq. Method     : C:\CHEM32\1\DATA\0402-TPH 2013-04-02 14-20-48\TPH-FRONT-1090171B.M
Last changed    : 3/14/2013 1:57:38 PM
Analysis Method : C:\CHEM32\1\DATA\0402-TPH 2013-04-02 14-20-48\TPH-FRONT-1090171B.M (Sequence
                  Method)
Last changed    : 4/3/2013 4:41:46 PM
                  (modified after loading)
==================================================================
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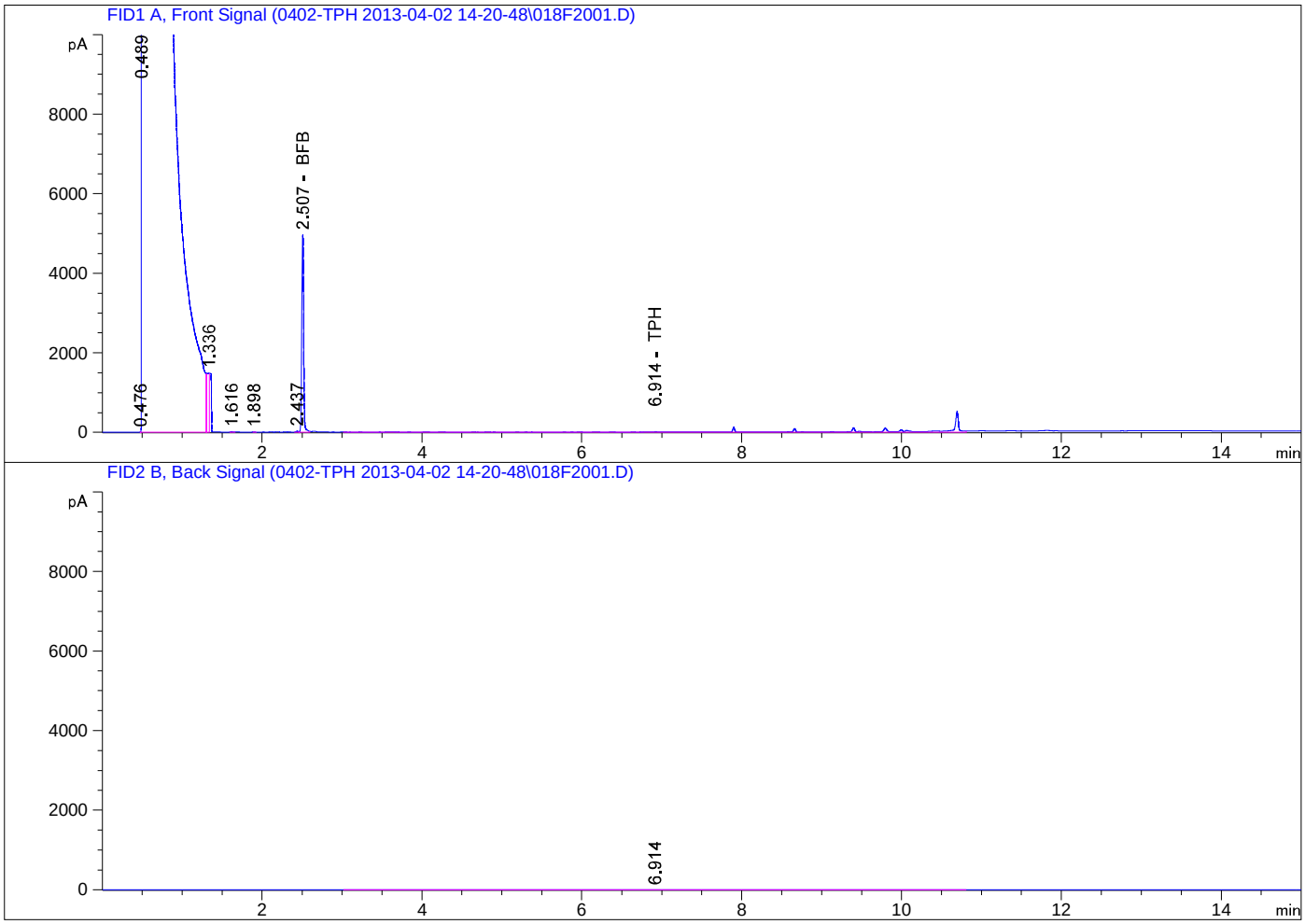


```
==================================================================
                      External Standard Report
==================================================================

Sorted By             :      Signal
Calib. Data Modified  :      4/3/2013 4:41:46 PM
Multiplier:                   :      1.0000
Dilution:                     :      1.0000
Do not use Multiplier & Dilution Factor with ISTDs
```

Data File C:\CHEM32\1\DATA\0402-TPH 2013-04-02 14-20-48\022F2401.D
Sample Name: 1304020-014CMS

==========

Acq. Operator : Seq. Line : 24
Acq. Instrument : GC C Location : Vial 22
Injection Date : 4/2/2013 11:32:29 PM Inj : 1
Inj Volume : 5 µl
Acq. Method : C:\CHEM32\1\DATA\0402-TPH 2013-04-02 14-20-48\TPH-FRONT-1090171B.M
Last changed : 3/14/2013 1:57:38 PM
Analysis Method : C:\CHEM32\1\DATA\0402-TPH 2013-04-02 14-20-48\TPH-FRONT-1090171B.M (Sequence Method)
Last changed : 4/3/2013 4:41:46 PM
(modified after loading)

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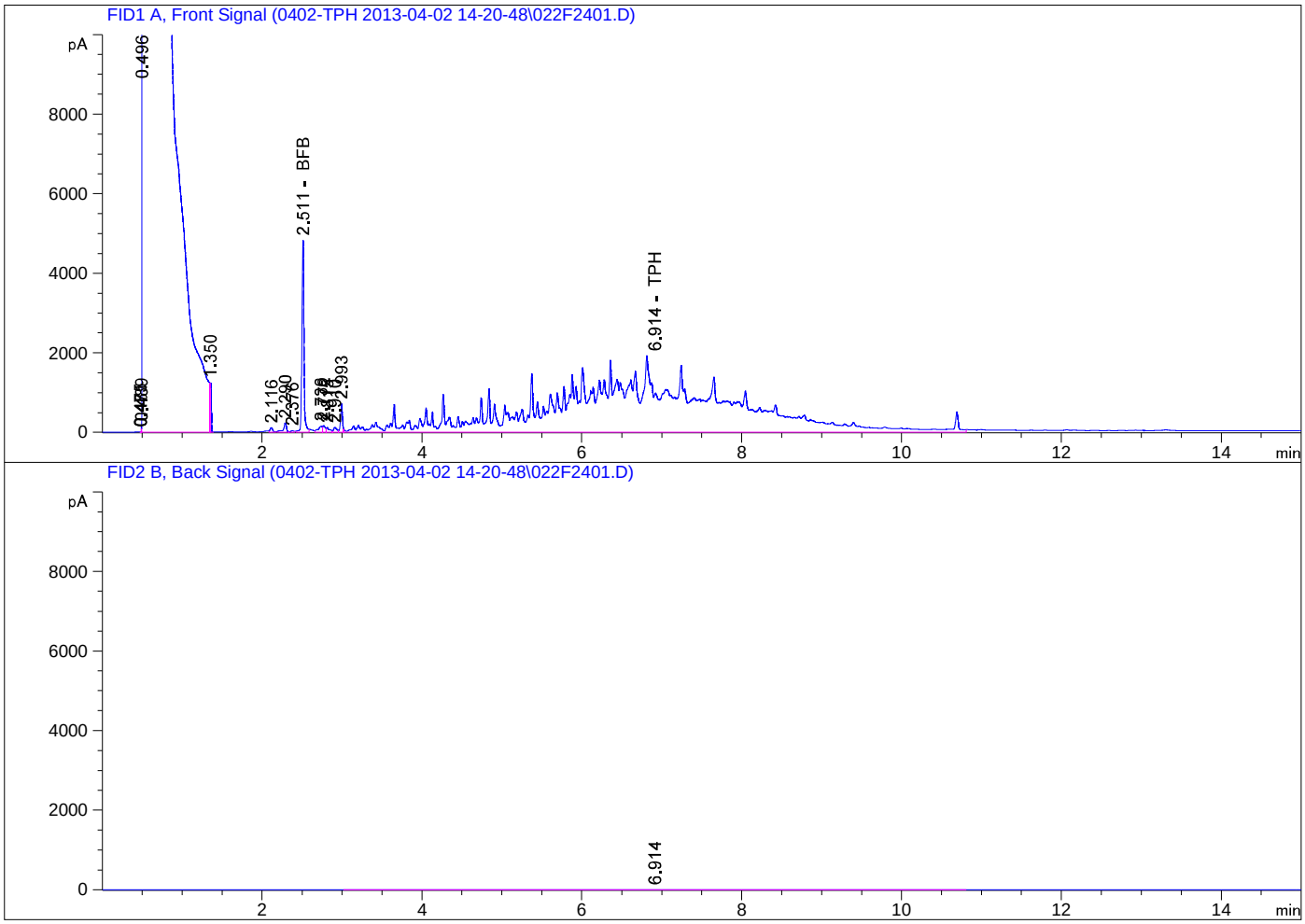

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External Standard Report

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Sorted By : Signal
Calib. Data Modified : 4/3/2013 4:41:46 PM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Data File C:\CHEM32\1\DATA\0402-TPH 2013-04-02 14-20-48\023F2501.D
Sample Name: 1304020-014CMSD

==========

Acq. Operator : Seq. Line : 25
Acq. Instrument : GC C Location : Vial 23
Injection Date : 4/2/2013 11:51:48 PM Inj : 1
Inj Volume : 5 µl
Acq. Method : C:\CHEM32\1\DATA\0402-TPH 2013-04-02 14-20-48\TPH-FRONT-1090171B.M
Last changed : 3/14/2013 1:57:38 PM
Analysis Method : C:\CHEM32\1\DATA\0402-TPH 2013-04-02 14-20-48\TPH-FRONT-1090171B.M (Sequence Method)
Last changed : 4/3/2013 4:41:46 PM
(modified after loading)

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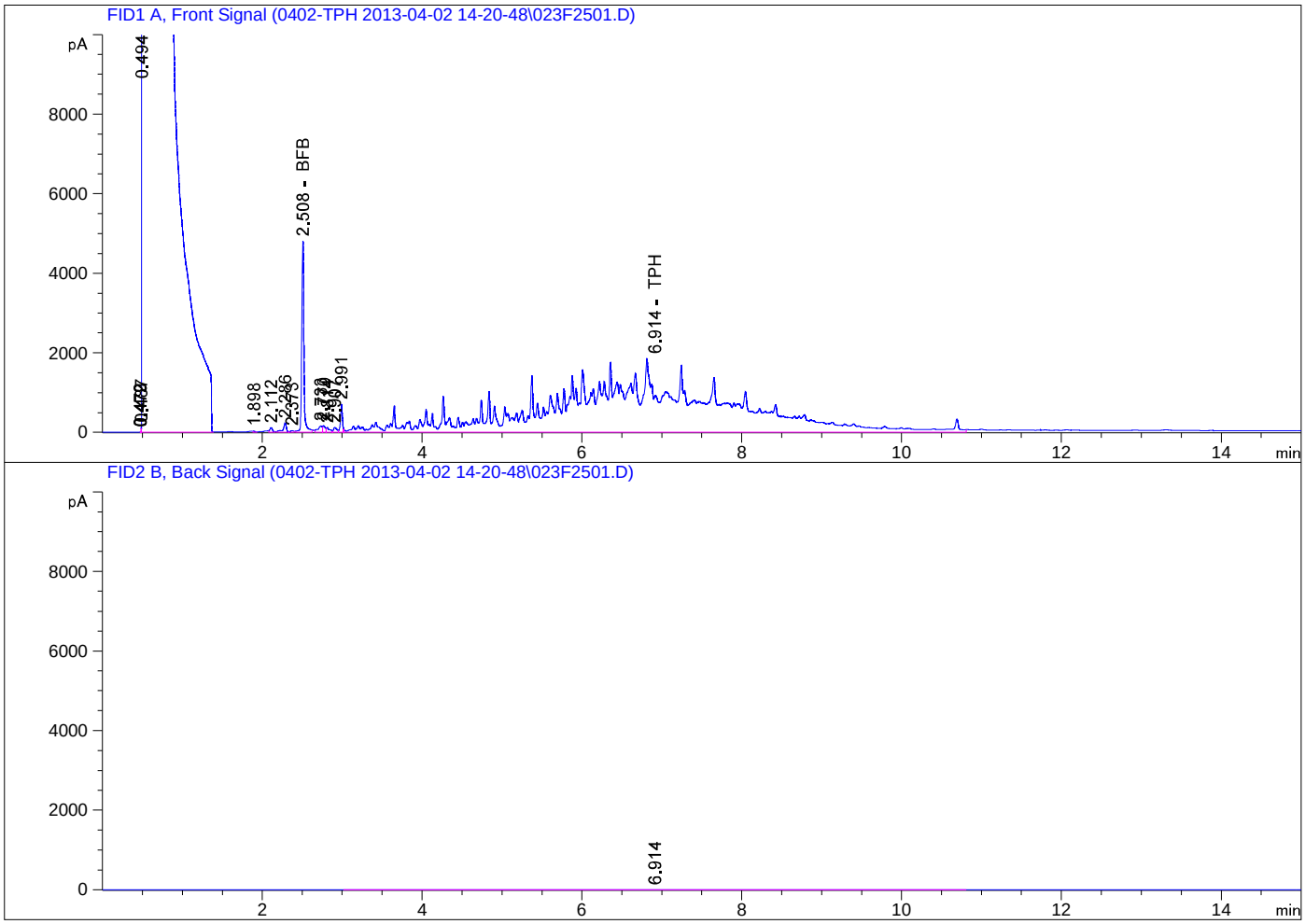

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External Standard Report

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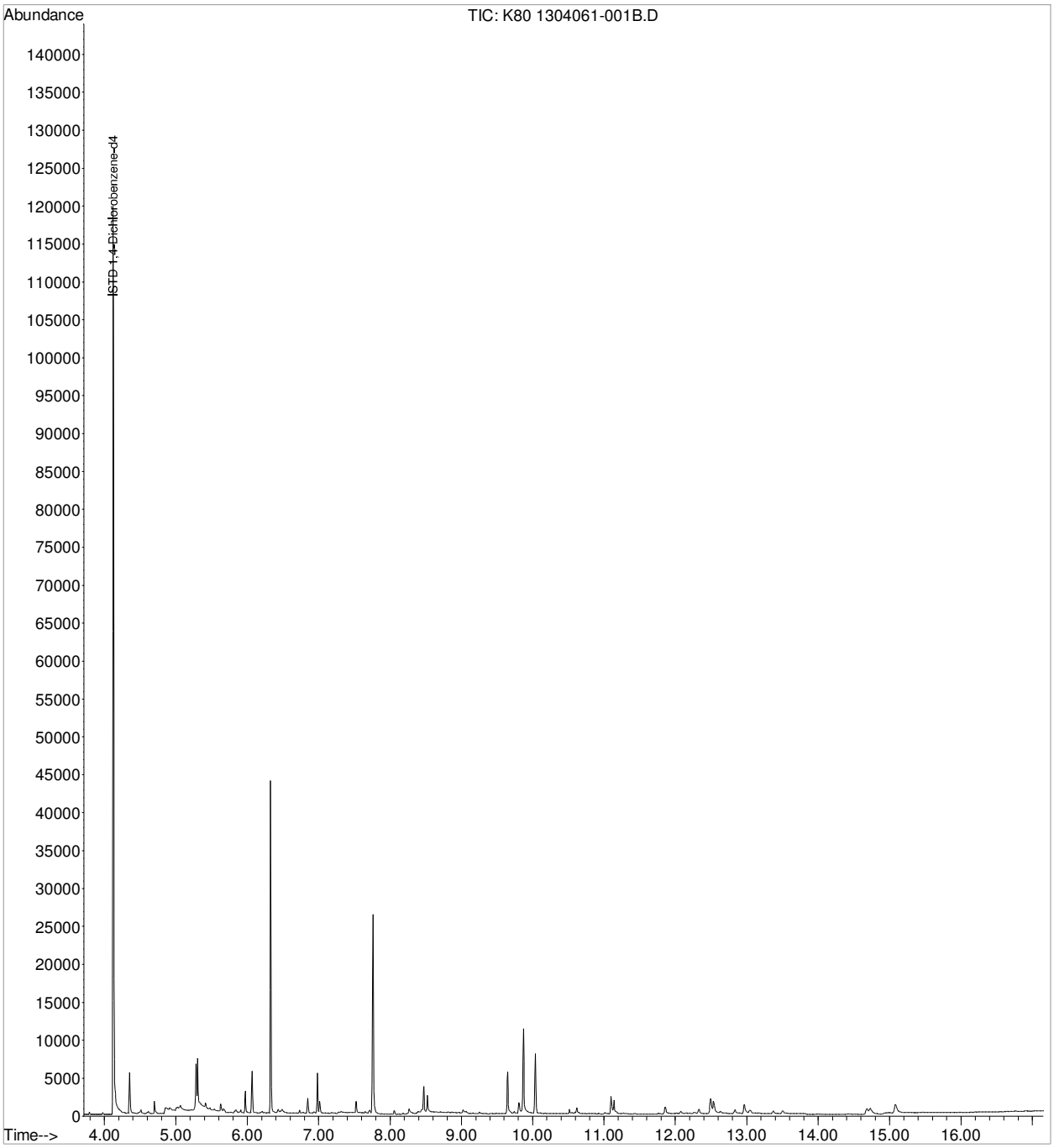
Sorted By : Signal
Calib. Data Modified : 4/3/2013 4:41:46 PM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Quantitation Report (QT Reviewed)

Data Path : Z:\MSDCHEM\1\DATA\APR 13\07APR13-A\
Data File : K80 1304061-001B.D
Acq On : 7 Apr 2013 6:31 pm
Operator : ALICIA HABERLE
Sample : 1304061-001B
Misc : SAMP
ALS Vial : 25 Sample Multiplier: 1

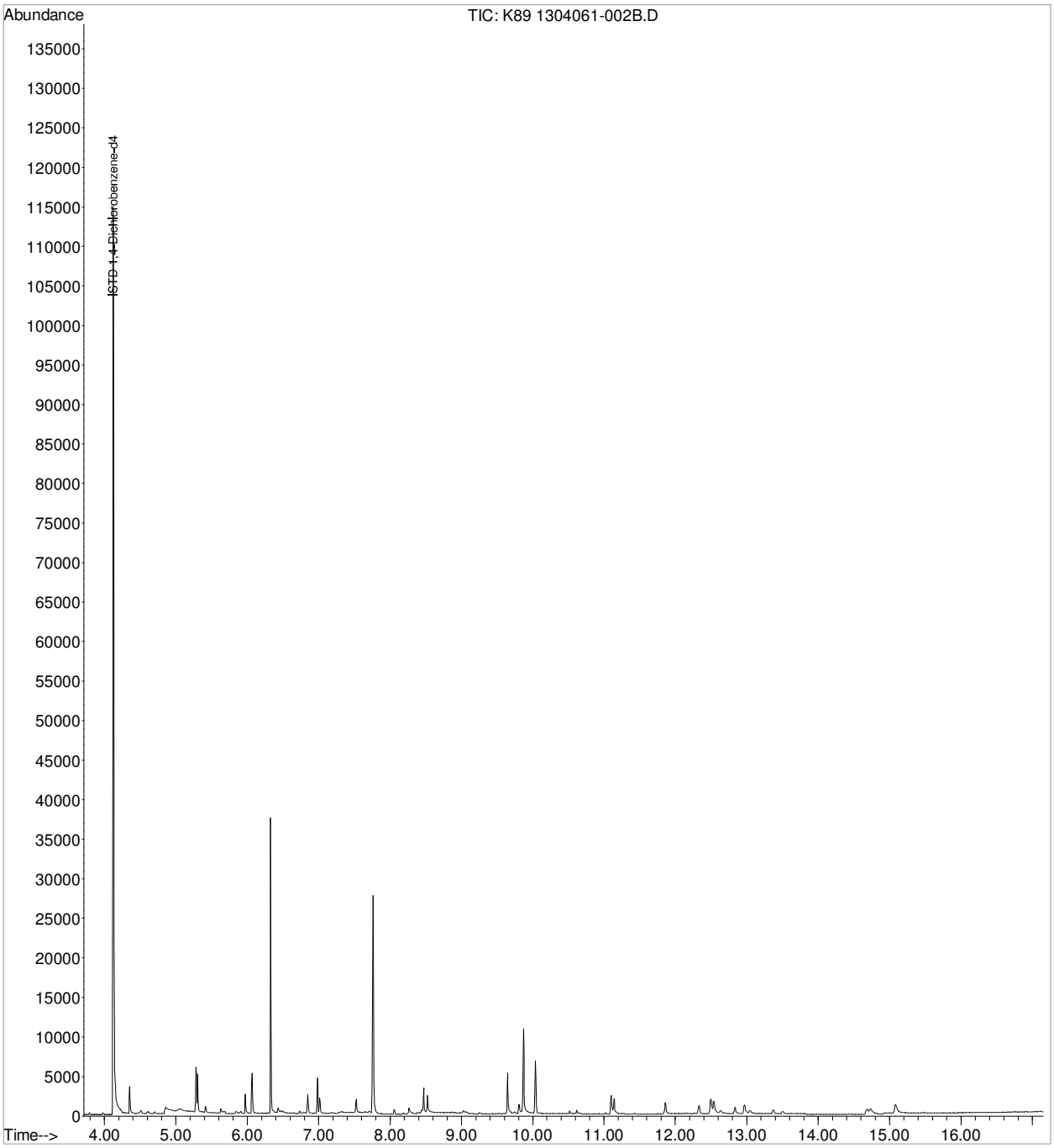
Quant Time: Apr 07 19:49:08 2013
Quant Method : C:\MSDCHEM\1\METHODS\PAH GWM QUANT SIM 03-20-2013.M
Quant Title : Semi-Volatile Compounds HP-GCMS 5973-B
QLast Update : Sun Apr 07 15:51:57 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : Z:\MSDCHEM\1\DATA\APR 13\07APR13-A\
Data File : K89 1304061-002B.D
Acq On : 7 Apr 2013 10:33 pm
Operator : ALICIA HABERLE
Sample : 1304061-002B
Misc : SAMP
ALS Vial : 6 Sample Multiplier: 1

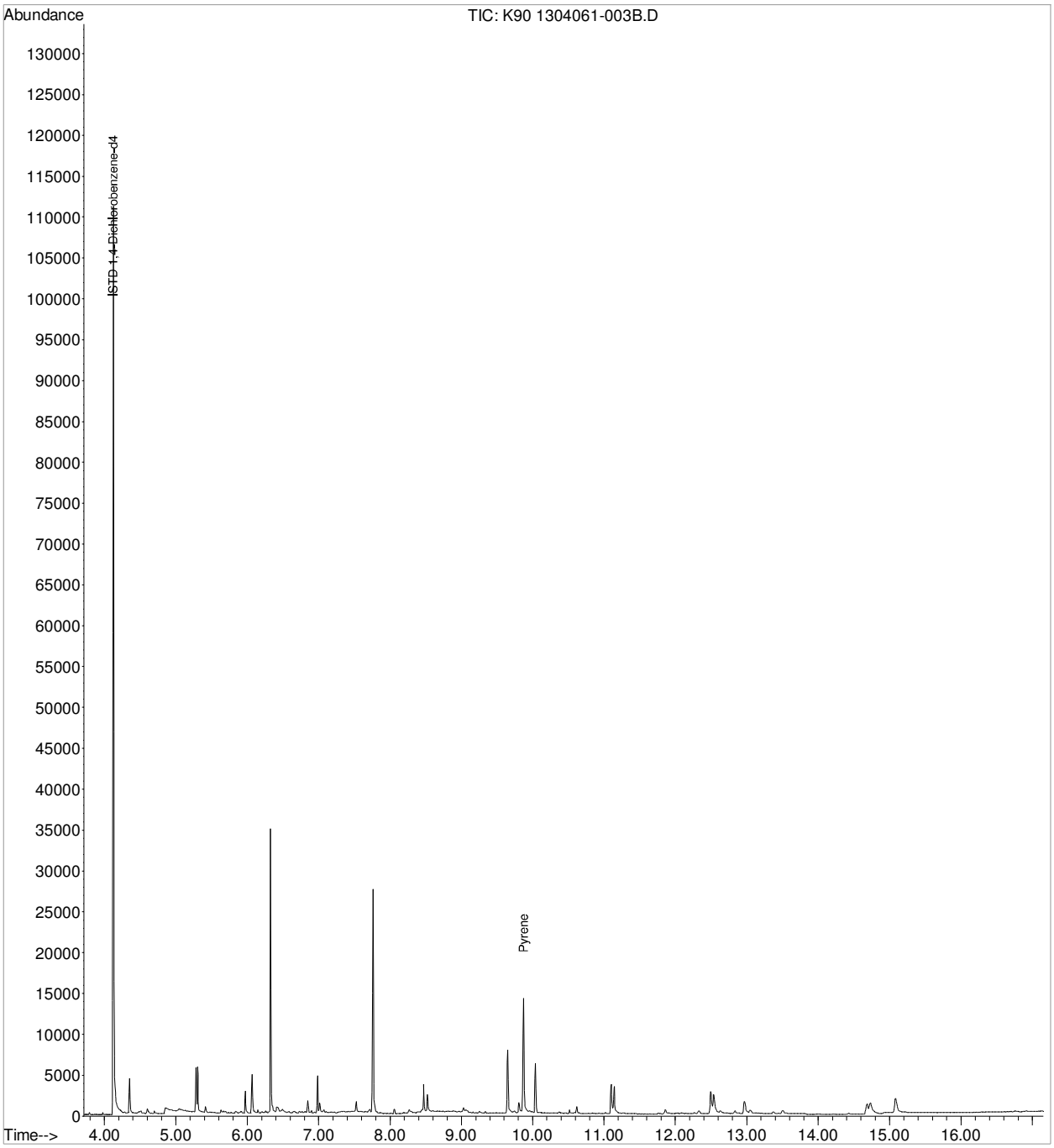
Quant Time: Apr 08 09:08:07 2013
Quant Method : C:\MSDCHEM\1\METHODS\PAH GWM QUANT SIM 03-20-2013.M
Quant Title : Semi-Volatile Compounds HP-GCMS 5973-B
QLast Update : Sun Apr 07 15:51:57 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : Z:\MSDCHEM\1\DATA\APR 13\07APR13-A\
Data File : K90 1304061-003B.D
Acq On : 7 Apr 2013 11:00 pm
Operator : ALICIA HABERLE
Sample : 1304061-003B
Misc : SAMP
ALS Vial : 7 Sample Multiplier: 1

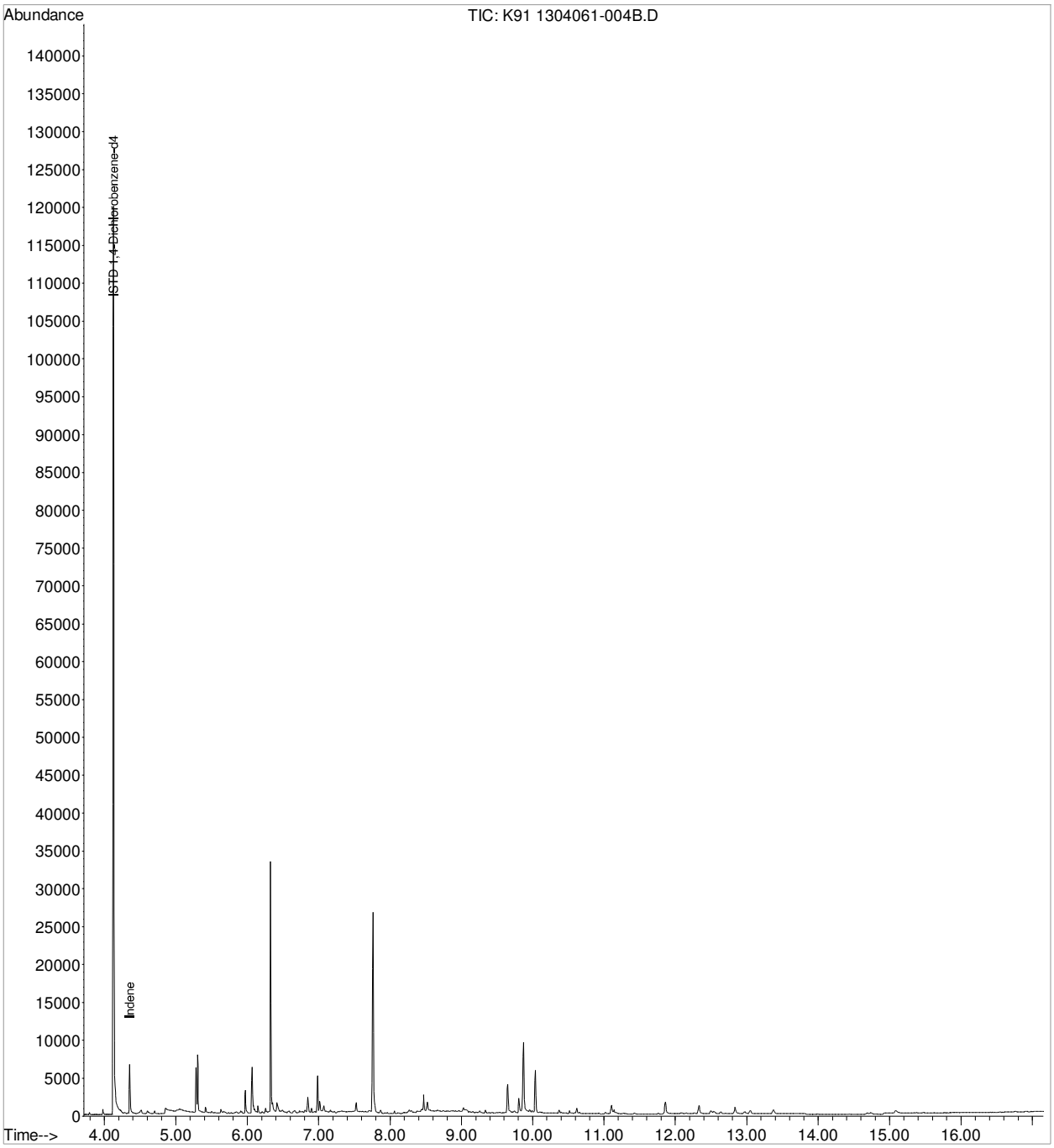
Quant Time: Apr 08 09:08:46 2013
Quant Method : C:\MSDCHEM\1\METHODS\PAH GWM QUANT SIM 03-20-2013.M
Quant Title : Semi-Volatile Compounds HP-GCMS 5973-B
QLast Update : Sun Apr 07 15:51:57 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : Z:\MSDCHEM\1\DATA\APR 13\07APR13-A\
Data File : K91 1304061-004B.D
Acq On : 7 Apr 2013 11:27 pm
Operator : ALICIA HABERLE
Sample : 1304061-004B
Misc : SAMP
ALS Vial : 8 Sample Multiplier: 1

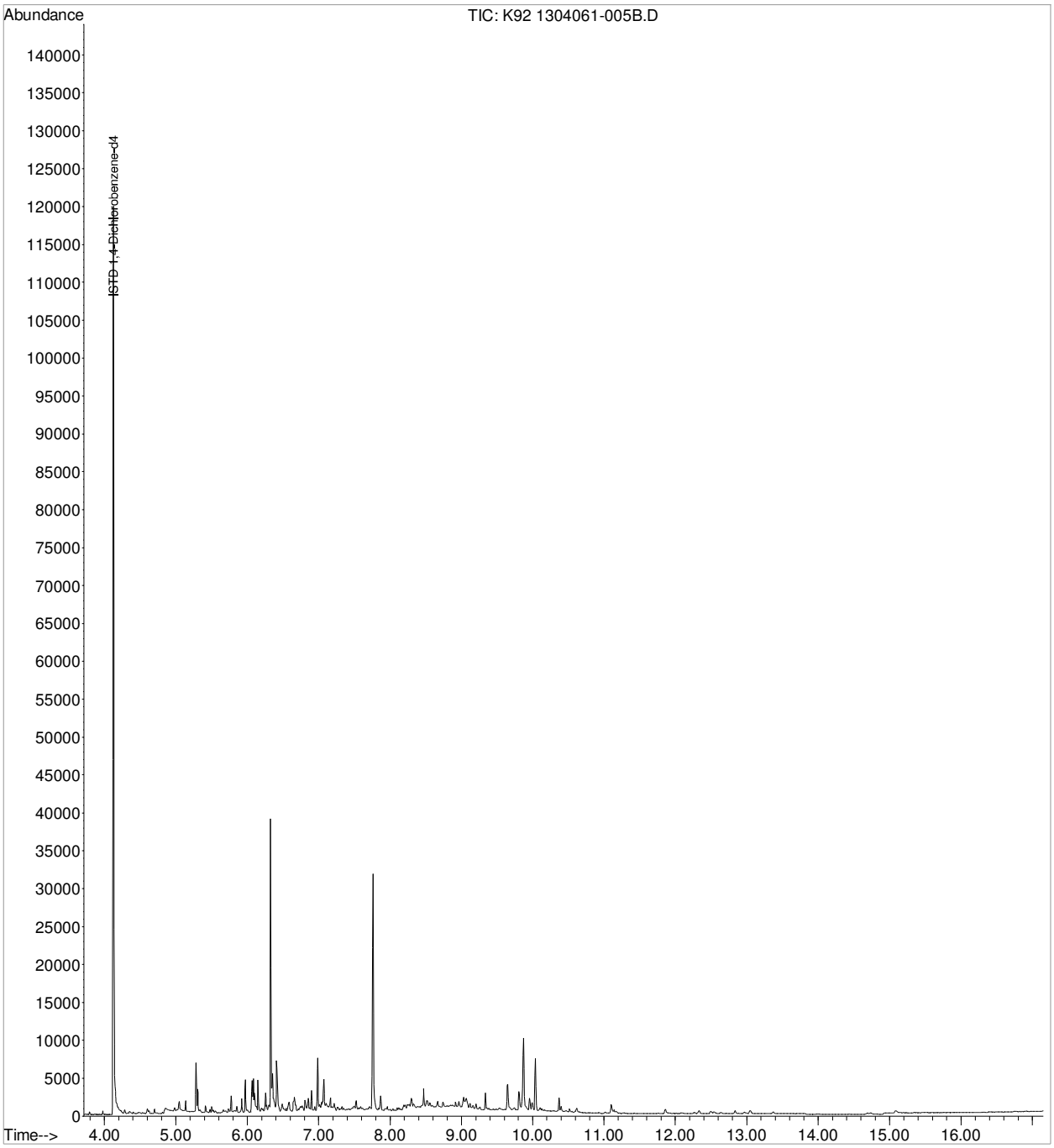
Quant Time: Apr 08 09:10:15 2013
Quant Method : C:\MSDCHEM\1\METHODS\PAH GWM QUANT SIM 03-20-2013.M
Quant Title : Semi-Volatile Compounds HP-GCMS 5973-B
QLast Update : Sun Apr 07 15:51:57 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : Z:\MSDCHEM\1\DATA\APR 13\07APR13-A\
Data File : K92 1304061-005B.D
Acq On : 7 Apr 2013 11:54 pm
Operator : ALICIA HABERLE
Sample : 1304061-005B
Misc : SAMP
ALS Vial : 9 Sample Multiplier: 1

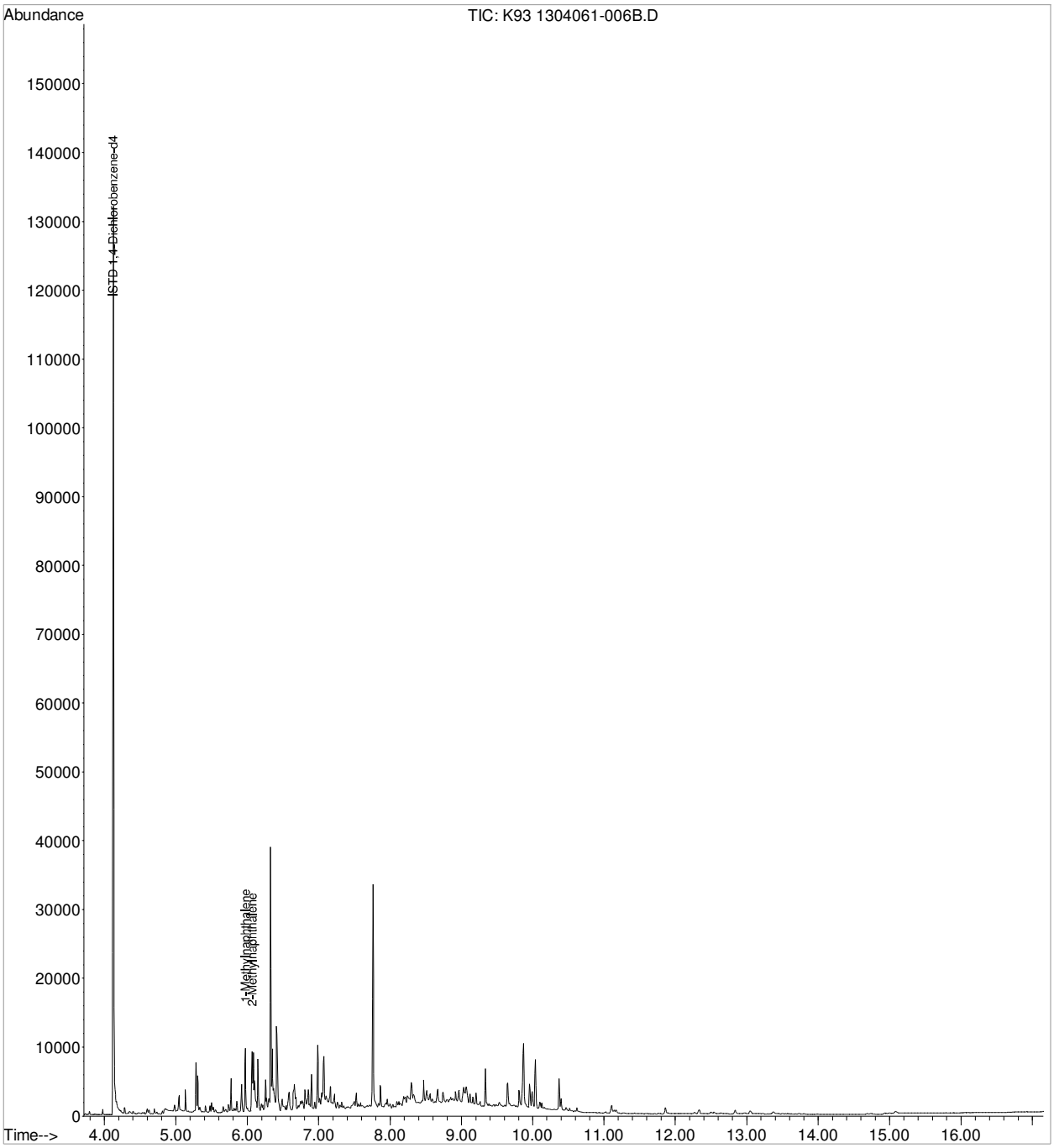
Quant Time: Apr 08 09:10:35 2013
Quant Method : C:\MSDCHEM\1\METHODS\PAH GWM QUANT SIM 03-20-2013.M
Quant Title : Semi-Volatile Compounds HP-GCMS 5973-B
QLast Update : Sun Apr 07 15:51:57 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : Z:\MSDCHEM\1\DATA\APR 13\07APR13-A\
Data File : K93 1304061-006B.D
Acq On : 8 Apr 2013 12:21 am
Operator : ALICIA HABERLE
Sample : 1304061-006B
Misc : SAMP
ALS Vial : 10 Sample Multiplier: 1

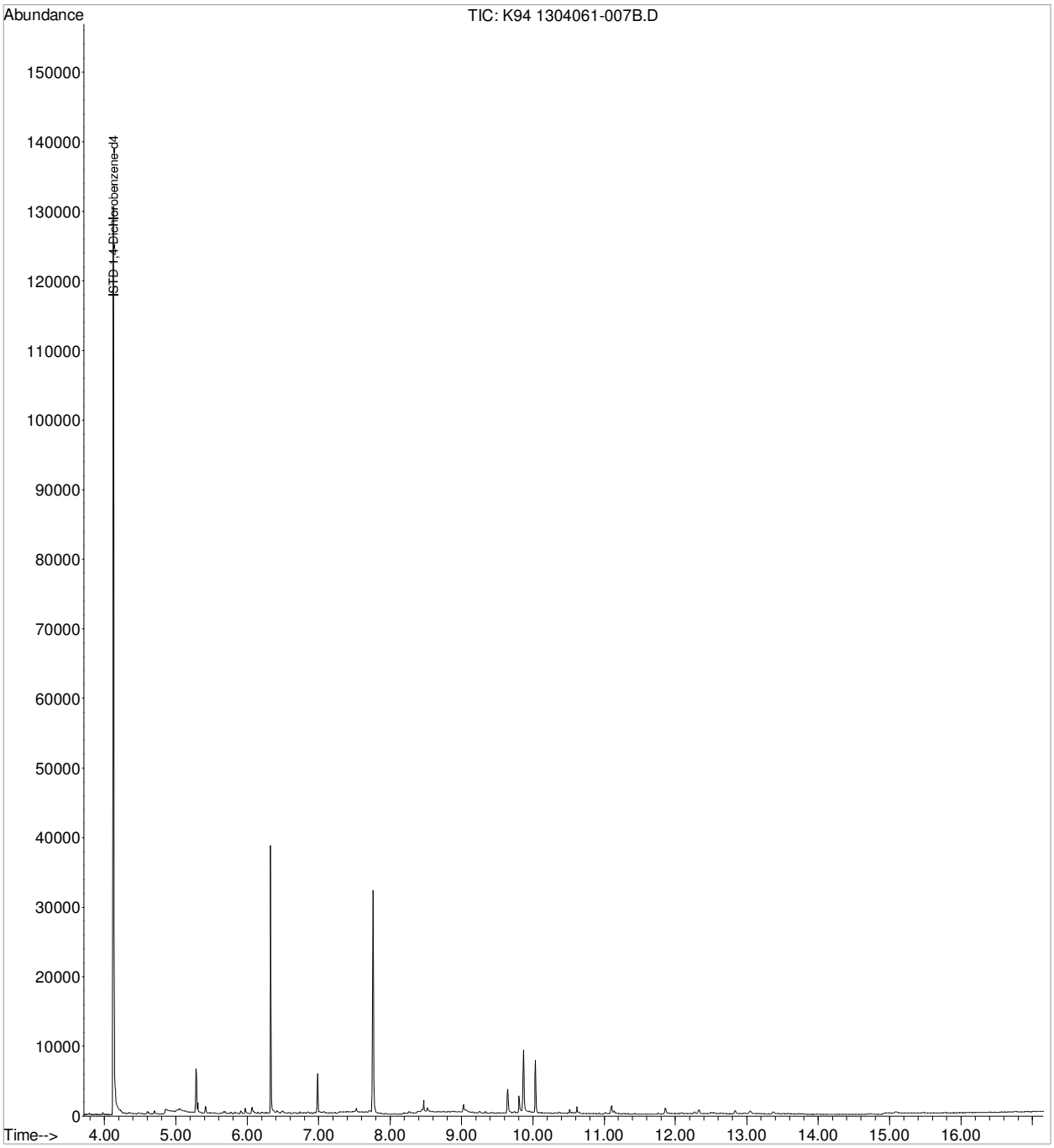
Quant Time: Apr 08 09:10:55 2013
Quant Method : C:\MSDCHEM\1\METHODS\PAH GWM QUANT SIM 03-20-2013.M
Quant Title : Semi-Volatile Compounds HP-GCMS 5973-B
QLast Update : Sun Apr 07 15:51:57 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : Z:\MSDCHEM\1\DATA\APR 13\07APR13-A\
Data File : K94 1304061-007B.D
Acq On : 8 Apr 2013 12:48 am
Operator : ALICIA HABERLE
Sample : 1304061-007B
Misc : SAMP
ALS Vial : 11 Sample Multiplier: 1

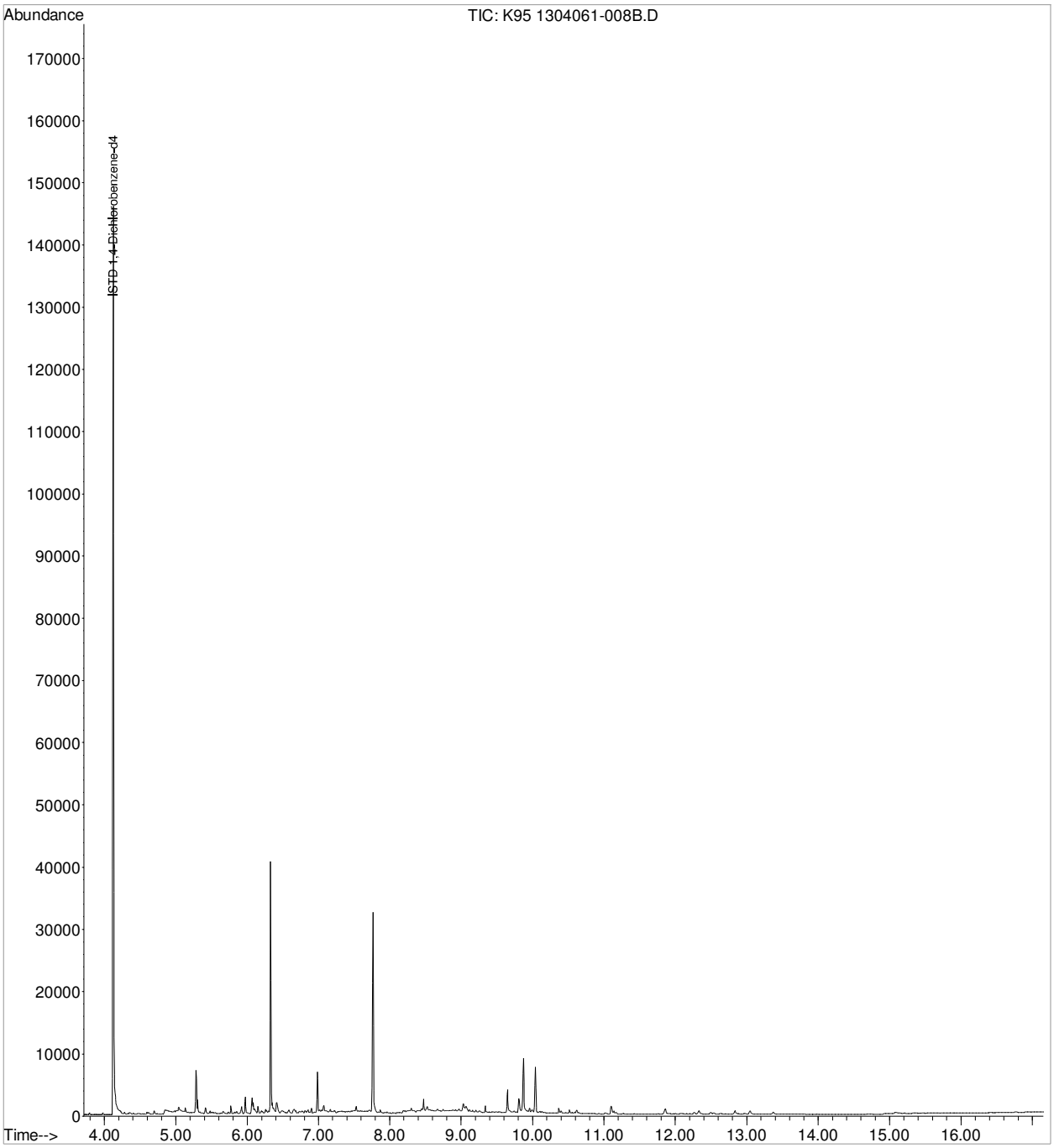
Quant Time: Apr 08 09:11:11 2013
Quant Method : C:\MSDCHEM\1\METHODS\PAH GWM QUANT SIM 03-20-2013.M
Quant Title : Semi-Volatile Compounds HP-GCMS 5973-B
QLast Update : Sun Apr 07 15:51:57 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : Z:\MSDCHEM\1\DATA\APR 13\07APR13-A\
Data File : K95 1304061-008B.D
Acq On : 8 Apr 2013 1:14 am
Operator : ALICIA HABERLE
Sample : 1304061-008B
Misc : SAMP
ALS Vial : 12 Sample Multiplier: 1

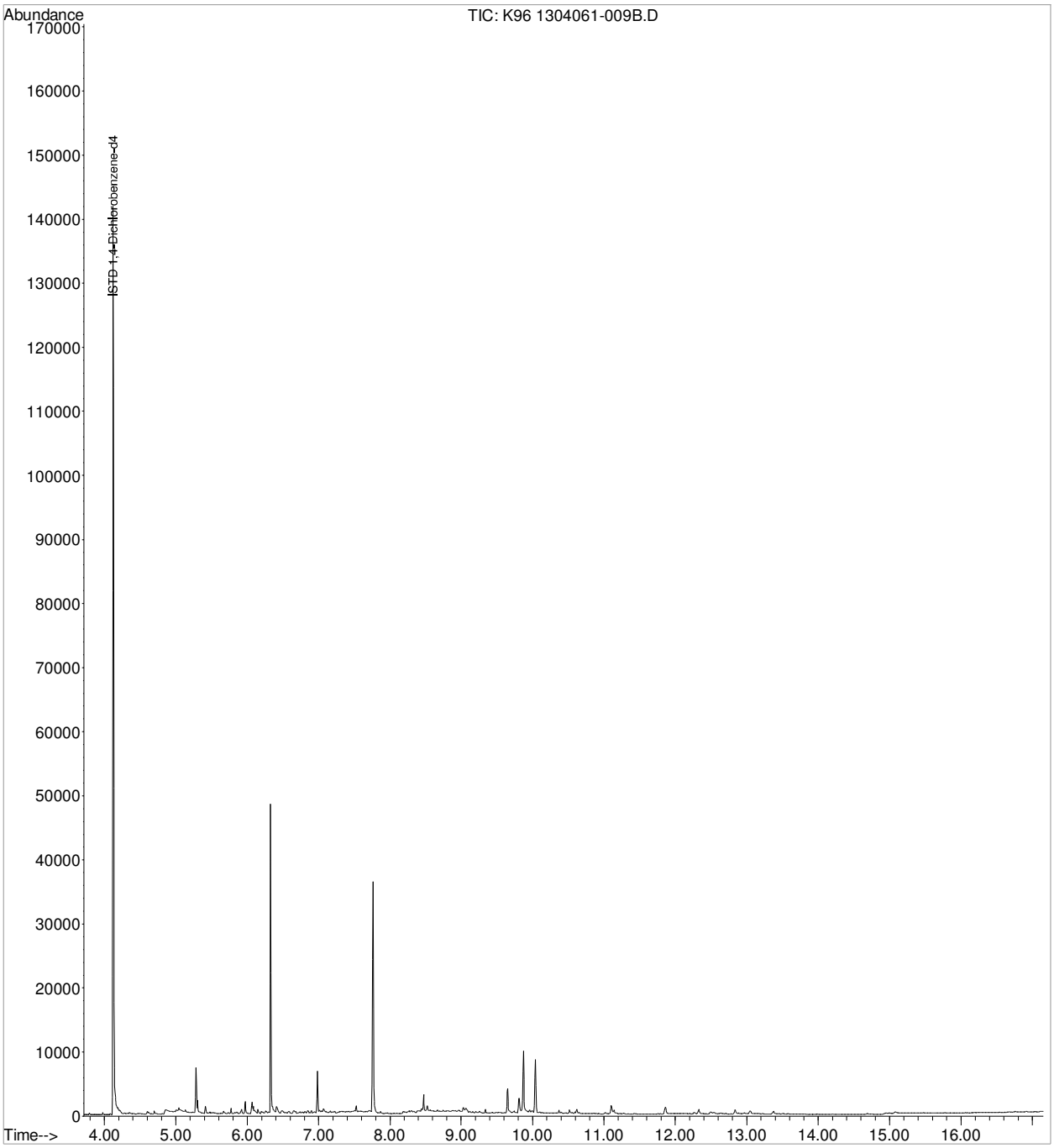
Quant Time: Apr 08 09:11:30 2013
Quant Method : C:\MSDCHEM\1\METHODS\PAH GWM QUANT SIM 03-20-2013.M
Quant Title : Semi-Volatile Compounds HP-GCMS 5973-B
QLast Update : Sun Apr 07 15:51:57 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : Z:\MSDCHEM\1\DATA\APR 13\07APR13-A\
Data File : K96 1304061-009B.D
Acq On : 8 Apr 2013 1:41 am
Operator : ALICIA HABERLE
Sample : 1304061-009B
Misc : SAMP
ALS Vial : 13 Sample Multiplier: 1

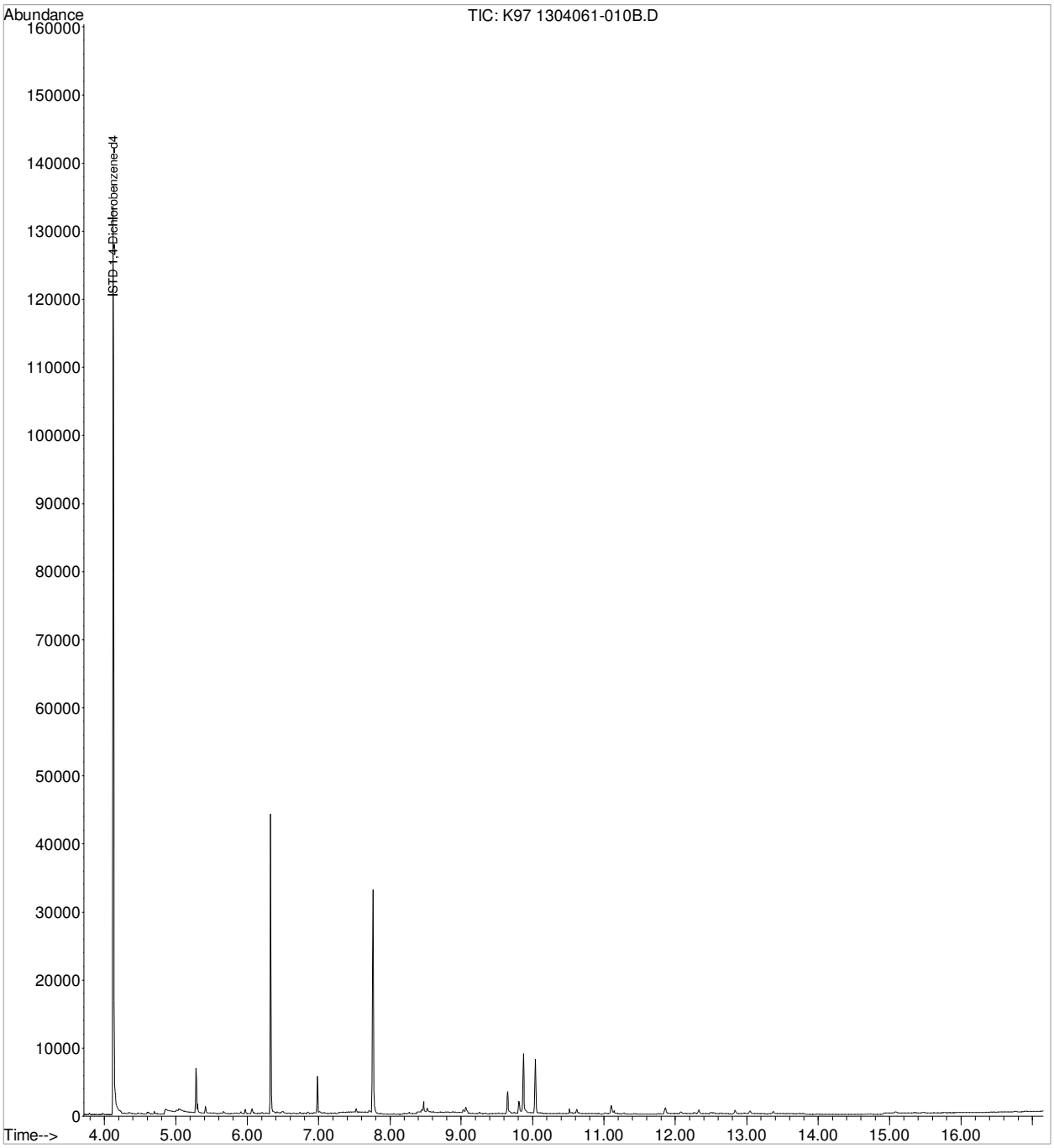
Quant Time: Apr 08 09:11:47 2013
Quant Method : C:\MSDCHEM\1\METHODS\PAH GWM QUANT SIM 03-20-2013.M
Quant Title : Semi-Volatile Compounds HP-GCMS 5973-B
QLast Update : Sun Apr 07 15:51:57 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : Z:\MSDCHEM\1\DATA\APR 13\07APR13-A\
Data File : K97 1304061-010B.D
Acq On : 8 Apr 2013 2:08 am
Operator : ALICIA HABERLE
Sample : 1304061-010B
Misc : SAMP
ALS Vial : 14 Sample Multiplier: 1

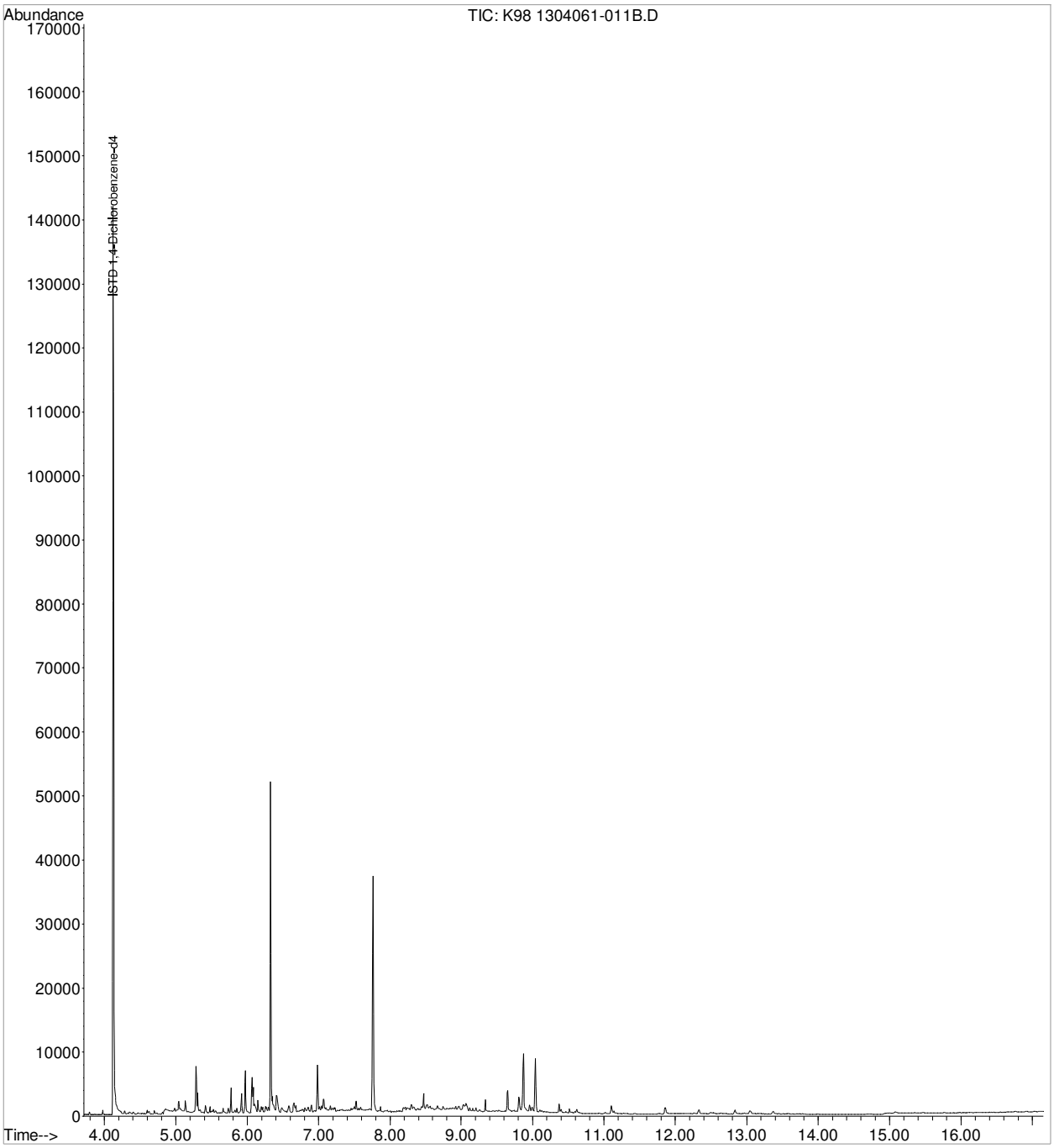
Quant Time: Apr 08 09:12:04 2013
Quant Method : C:\MSDCHEM\1\METHODS\PAH GWM QUANT SIM 03-20-2013.M
Quant Title : Semi-Volatile Compounds HP-GCMS 5973-B
QLast Update : Sun Apr 07 15:51:57 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : Z:\MSDCHEM\1\DATA\APR 13\07APR13-A\
Data File : K98 1304061-011B.D
Acq On : 8 Apr 2013 2:35 am
Operator : ALICIA HABERLE
Sample : 1304061-011B
Misc : SAMP
ALS Vial : 15 Sample Multiplier: 1

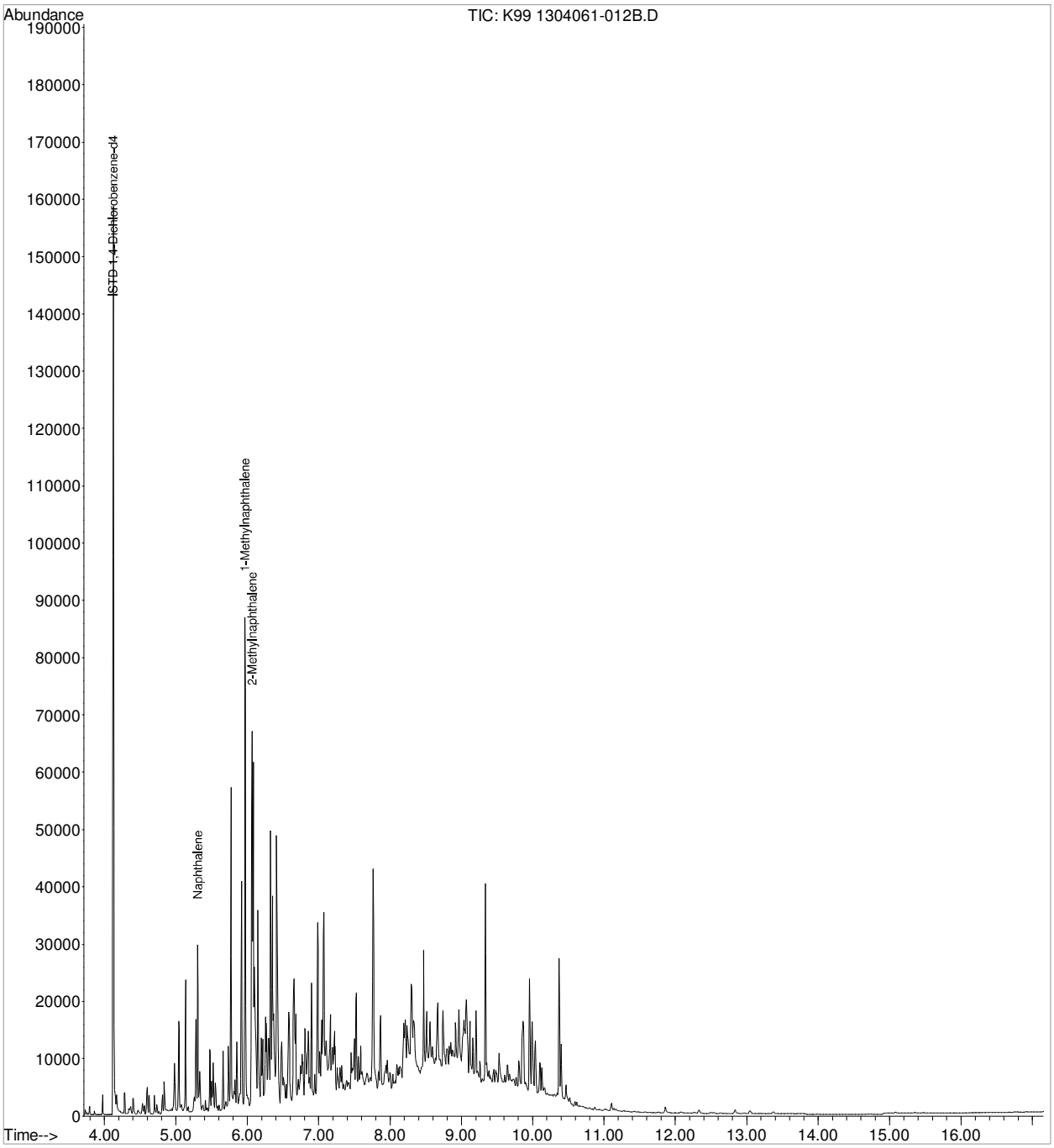
Quant Time: Apr 08 09:12:20 2013
Quant Method : C:\MSDCHEM\1\METHODS\PAH GWM QUANT SIM 03-20-2013.M
Quant Title : Semi-Volatile Compounds HP-GCMS 5973-B
QLast Update : Sun Apr 07 15:51:57 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : Z:\MSDCHEM\1\DATA\APR 13\07APR13-A\
Data File : K99 1304061-012B.D
Acq On : 8 Apr 2013 3:02 am
Operator : ALICIA HABERLE
Sample : 1304061-012B
Misc : SAMP
ALS Vial : 16 Sample Multiplier: 1

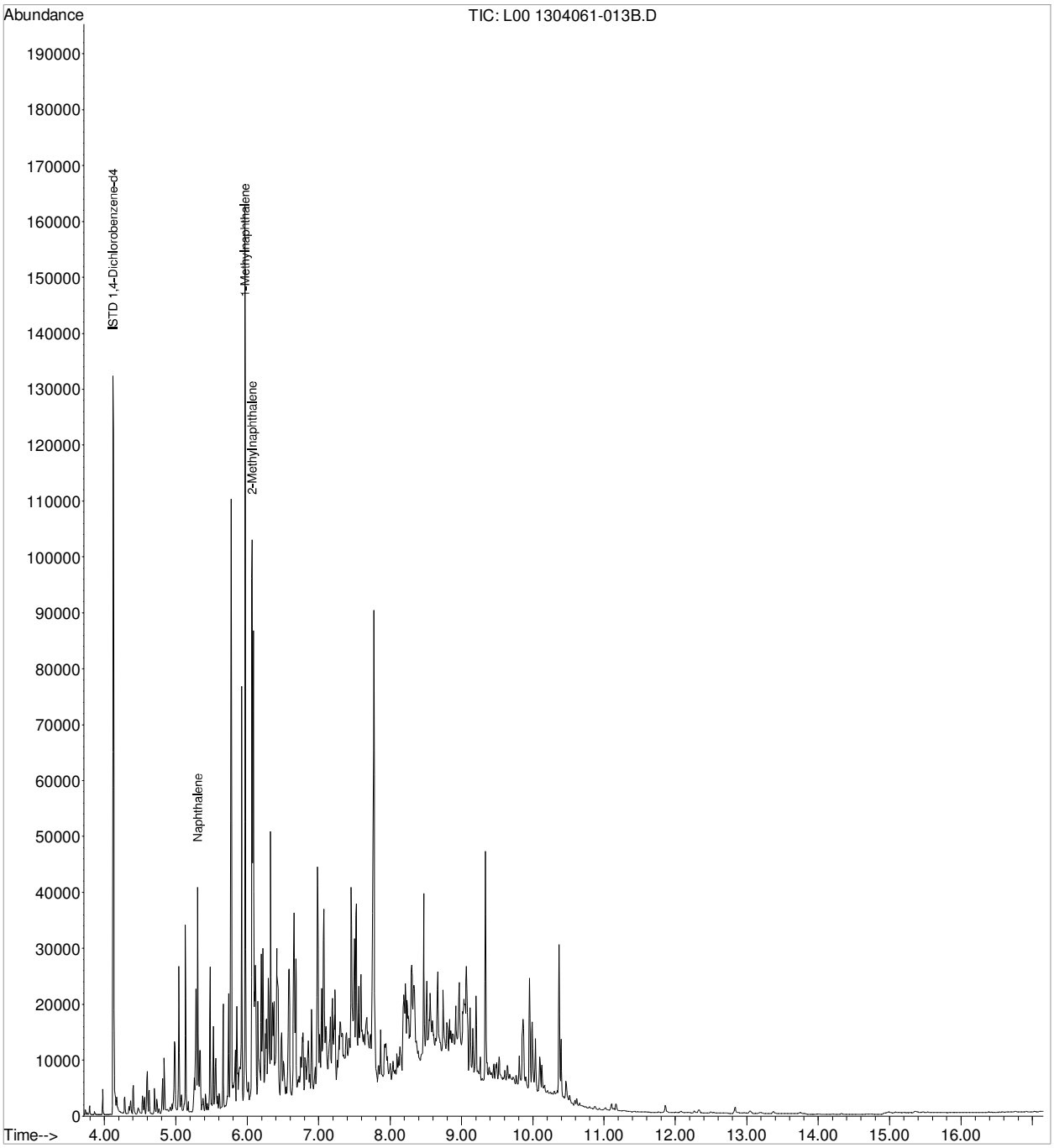
Quant Time: Apr 08 09:13:04 2013
Quant Method : C:\MSDCHEM\1\METHODS\PAH GWM QUANT SIM 03-20-2013.M
Quant Title : Semi-Volatile Compounds HP-GCMS 5973-B
QLast Update : Sun Apr 07 15:51:57 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : Z:\MSDCHEM\1\DATA\APR 13\07APR13-A\
Data File : L00 1304061-013B.D
Acq On : 8 Apr 2013 3:28 am
Operator : ALICIA HABERLE
Sample : 1304061-013B
Misc : SAMP
ALS Vial : 17 Sample Multiplier: 1

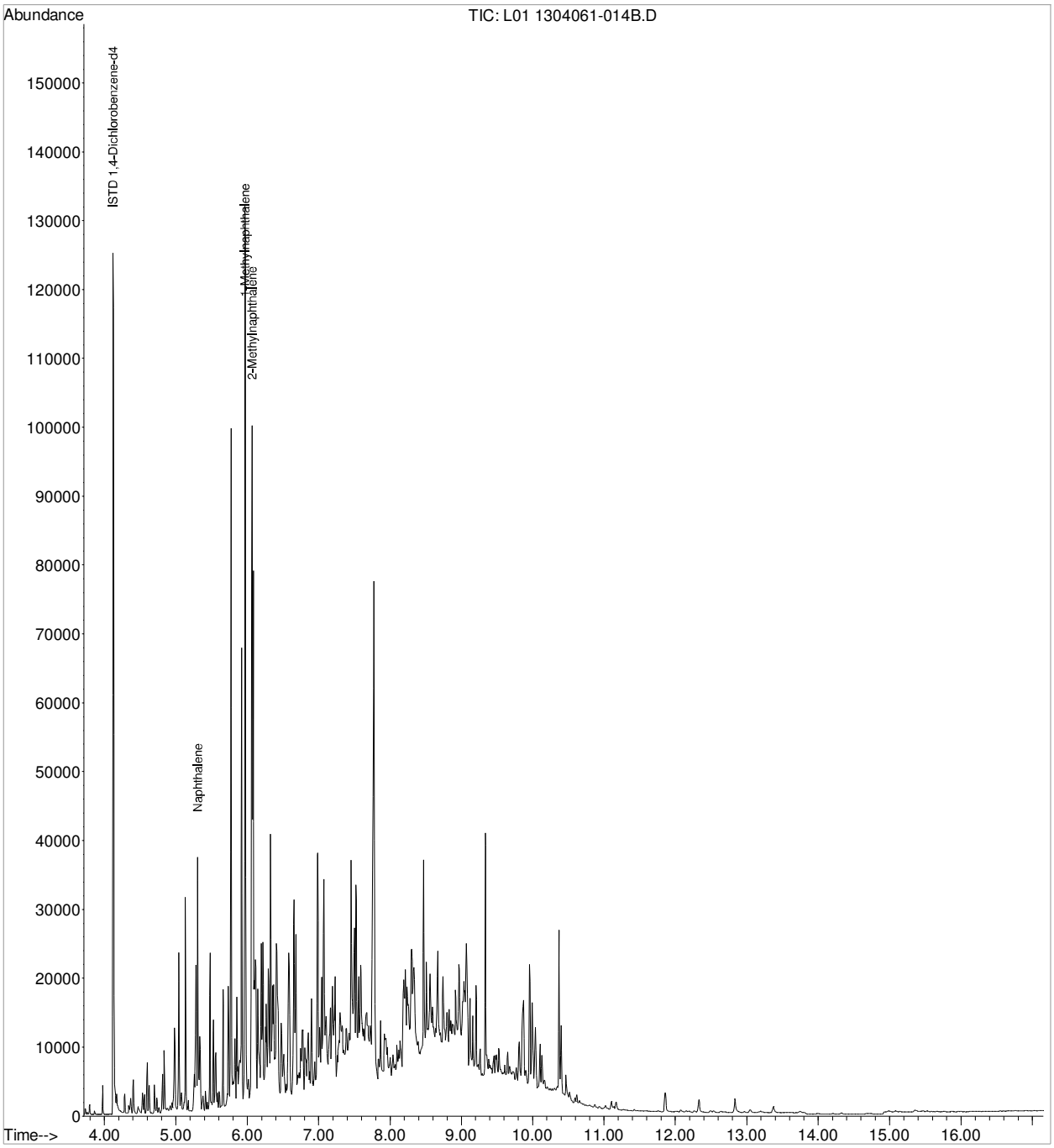
Quant Time: Apr 08 09:13:58 2013
Quant Method : C:\MSDCHEM\1\METHODS\PAH GWM QUANT SIM 03-20-2013.M
Quant Title : Semi-Volatile Compounds HP-GCMS 5973-B
QLast Update : Sun Apr 07 15:51:57 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : Z:\MSDCHEM\1\DATA\APR 13\07APR13-A\
Data File : L01 1304061-014B.D
Acq On : 8 Apr 2013 3:55 am
Operator : ALICIA HABERLE
Sample : 1304061-014B
Misc : SAMP
ALS Vial : 18 Sample Multiplier: 1

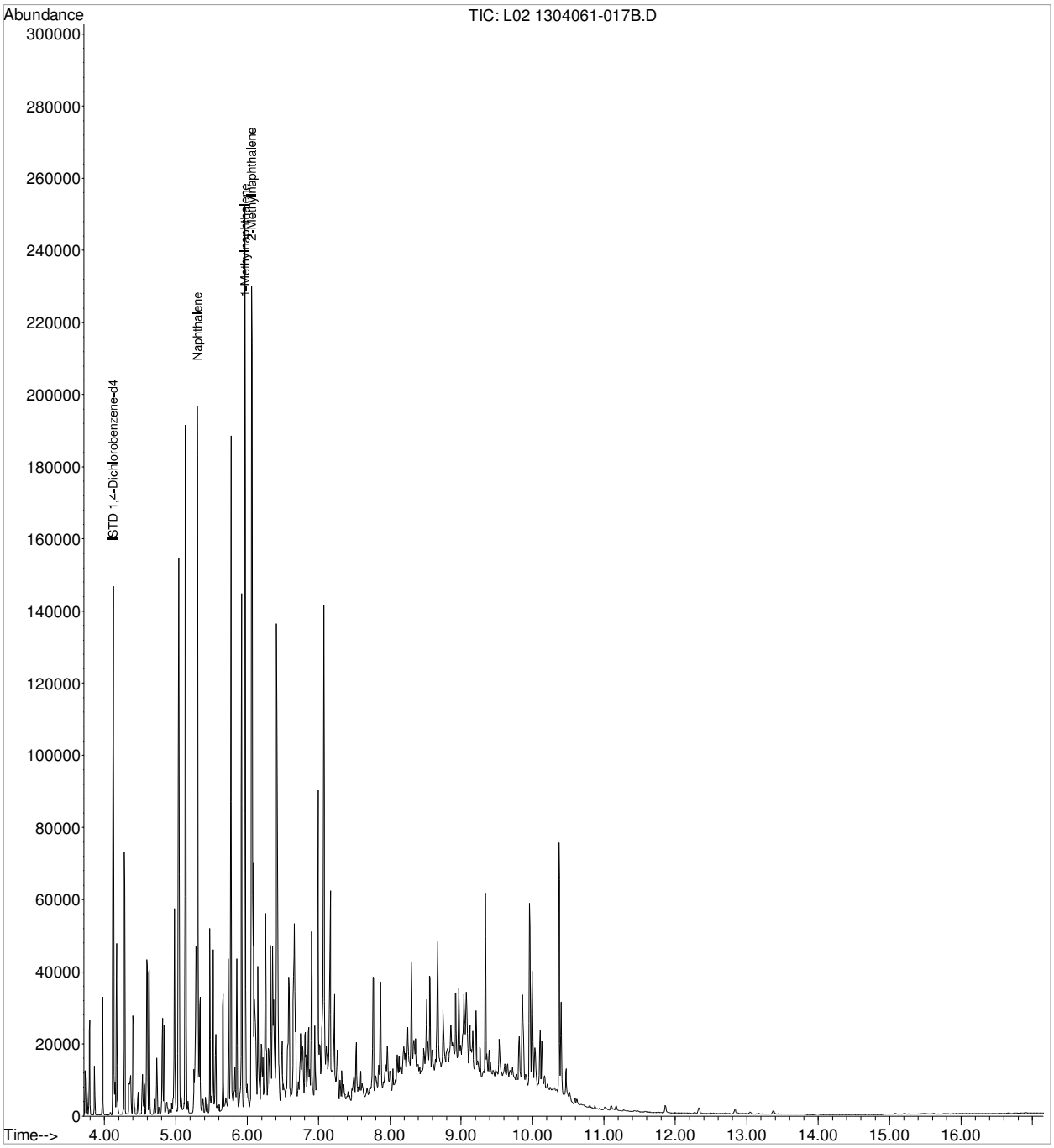
Quant Time: Apr 08 09:14:30 2013
Quant Method : C:\MSDCHEM\1\METHODS\PAH GWM QUANT SIM 03-20-2013.M
Quant Title : Semi-Volatile Compounds HP-GCMS 5973-B
QLast Update : Sun Apr 07 15:51:57 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : Z:\MSDCHEM\1\DATA\APR 13\07APR13-A\
Data File : L02 1304061-017B.D
Acq On : 8 Apr 2013 4:22 am
Operator : ALICIA HABERLE
Sample : 1304061-017B
Misc : SAMP
ALS Vial : 19 Sample Multiplier: 1

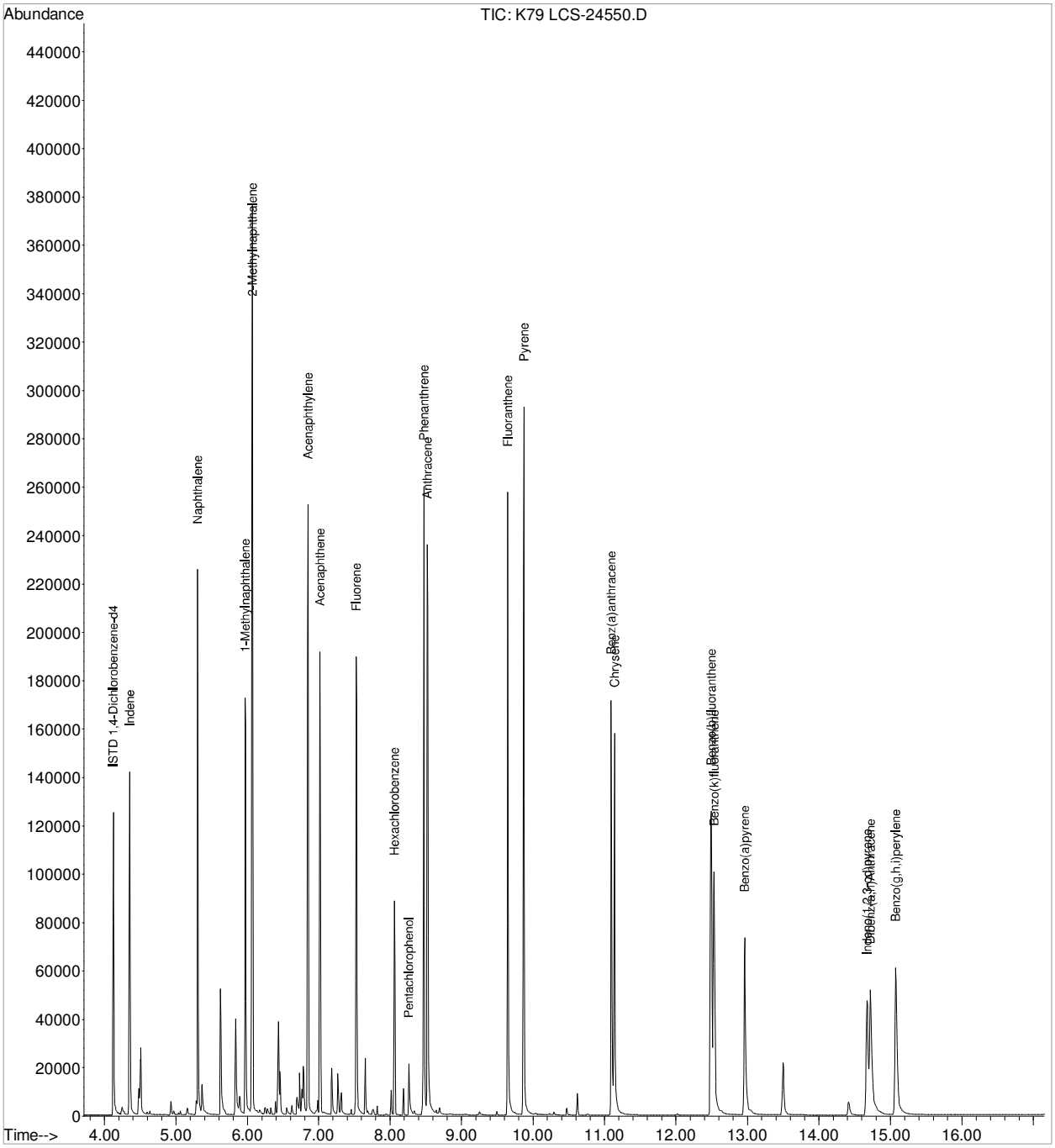
Quant Time: Apr 08 09:16:33 2013
Quant Method : C:\MSDCHEM\1\METHODS\PAH GWM QUANT SIM 03-20-2013.M
Quant Title : Semi-Volatile Compounds HP-GCMS 5973-B
QLast Update : Sun Apr 07 15:51:57 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : Z:\MSDCHEM\1\DATA\APR 13\07APR13-A\
Data File : K79 LCS-24550.D
Acq On : 7 Apr 2013 6:04 pm
Operator : ALICIA HABERLE
Sample : LCS-24550
Misc : LCS
ALS Vial : 24 Sample Multiplier: 1

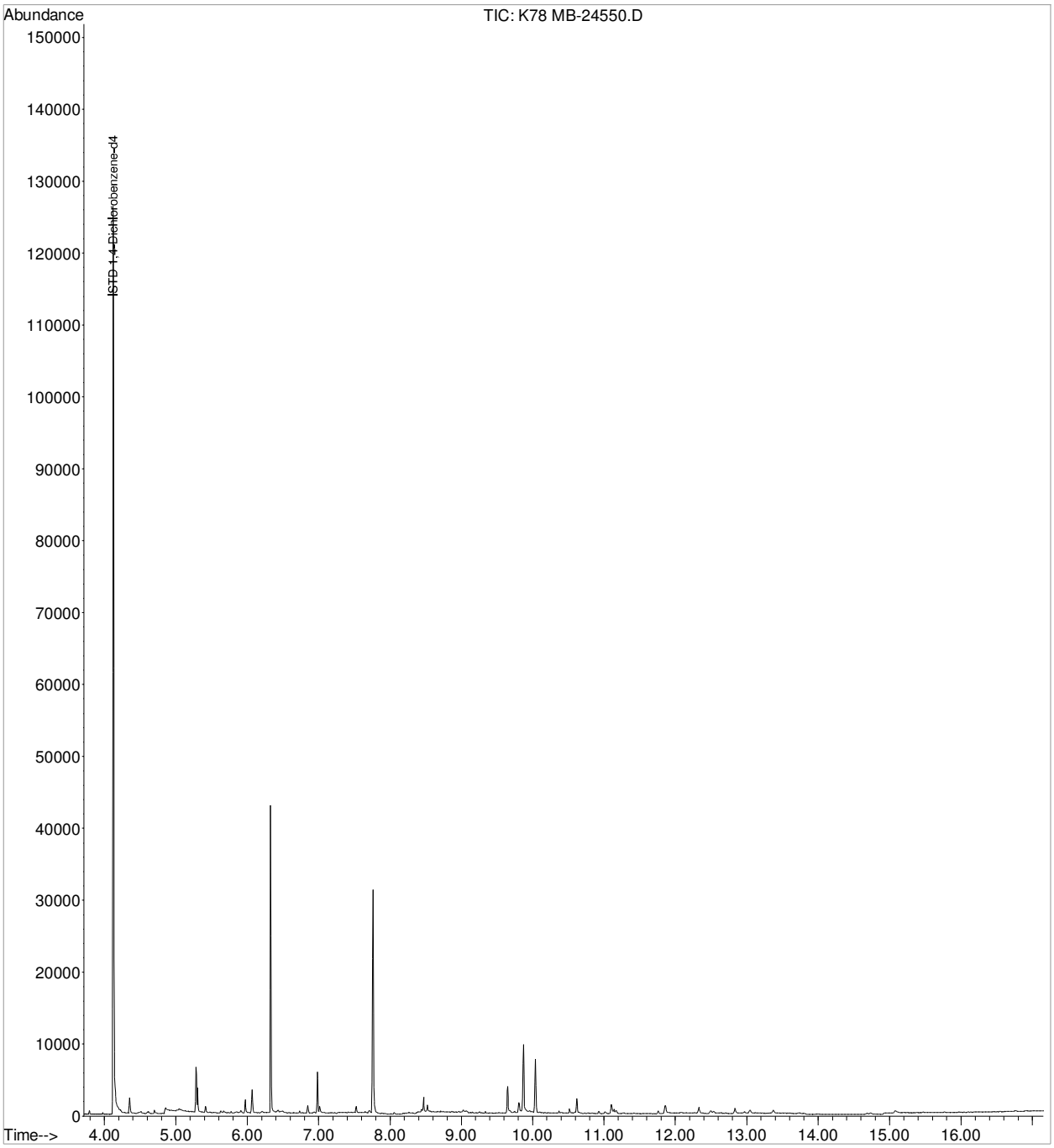
Quant Time: Apr 07 19:48:31 2013
Quant Method : C:\MSDCHEM\1\METHODS\PAH GWM QUANT SIM 03-20-2013.M
Quant Title : Semi-Volatile Compounds HP-GCMS 5973-B
QLast Update : Sun Apr 07 15:51:57 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : Z:\MSDCHEM\1\DATA\APR 13\07APR13-A\
Data File : K78 MB-24550.D
Acq On : 7 Apr 2013 5:37 pm
Operator : ALICIA HABERLE
Sample : MB-24550
Misc : MBLK
ALS Vial : 23 Sample Multiplier: 1

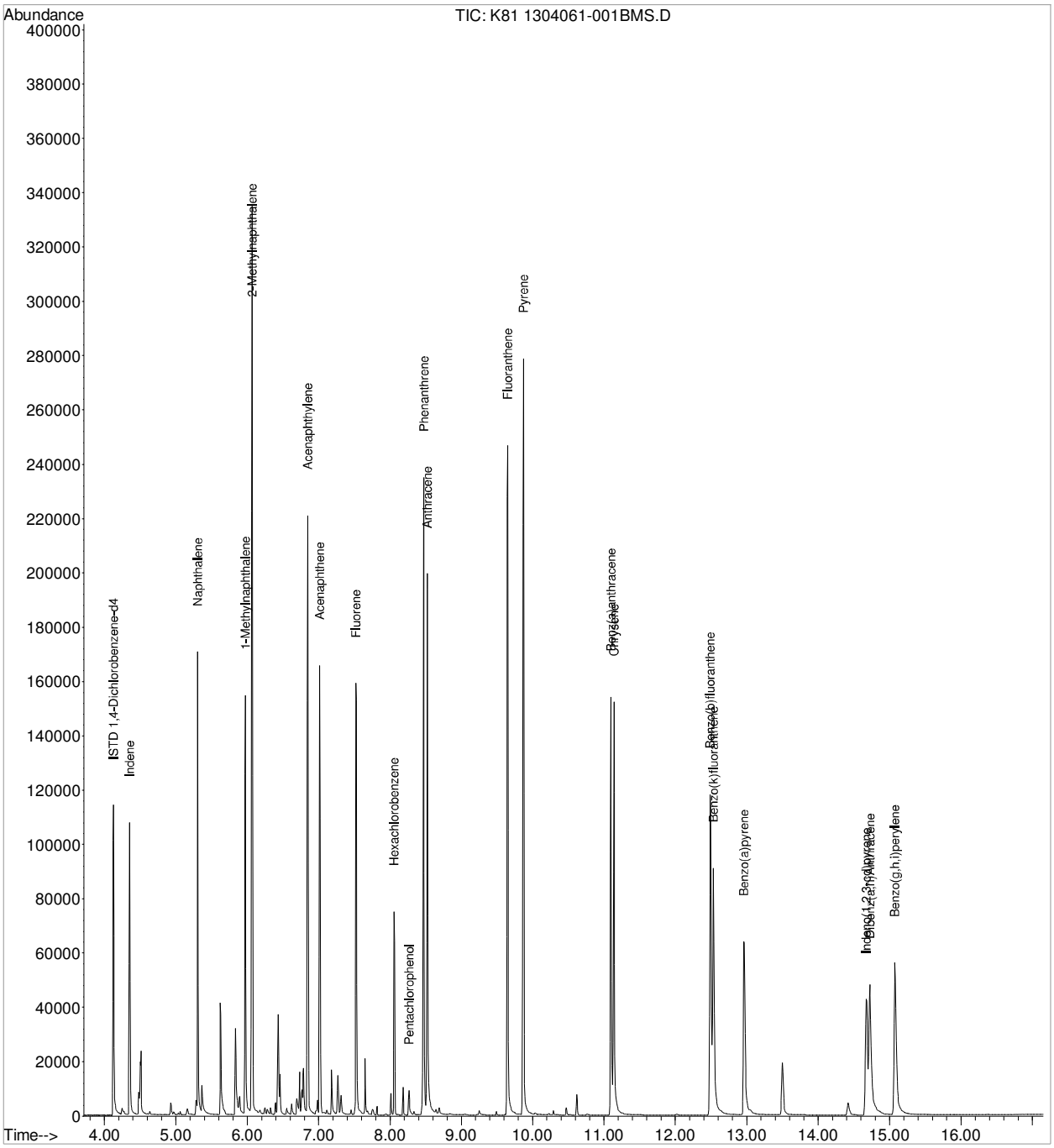
Quant Time: Apr 07 19:48:04 2013
Quant Method : C:\MSDCHEM\1\METHODS\PAH GWM QUANT SIM 03-20-2013.M
Quant Title : Semi-Volatile Compounds HP-GCMS 5973-B
QLast Update : Sun Apr 07 15:51:57 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : Z:\MSDCHEM\1\DATA\APR 13\07APR13-A\
Data File : K81 1304061-001BMS.D
Acq On : 7 Apr 2013 6:58 pm
Operator : ALICIA HABERLE
Sample : 1304061-001BMS
Misc : MS
ALS Vial : 26 Sample Multiplier: 1

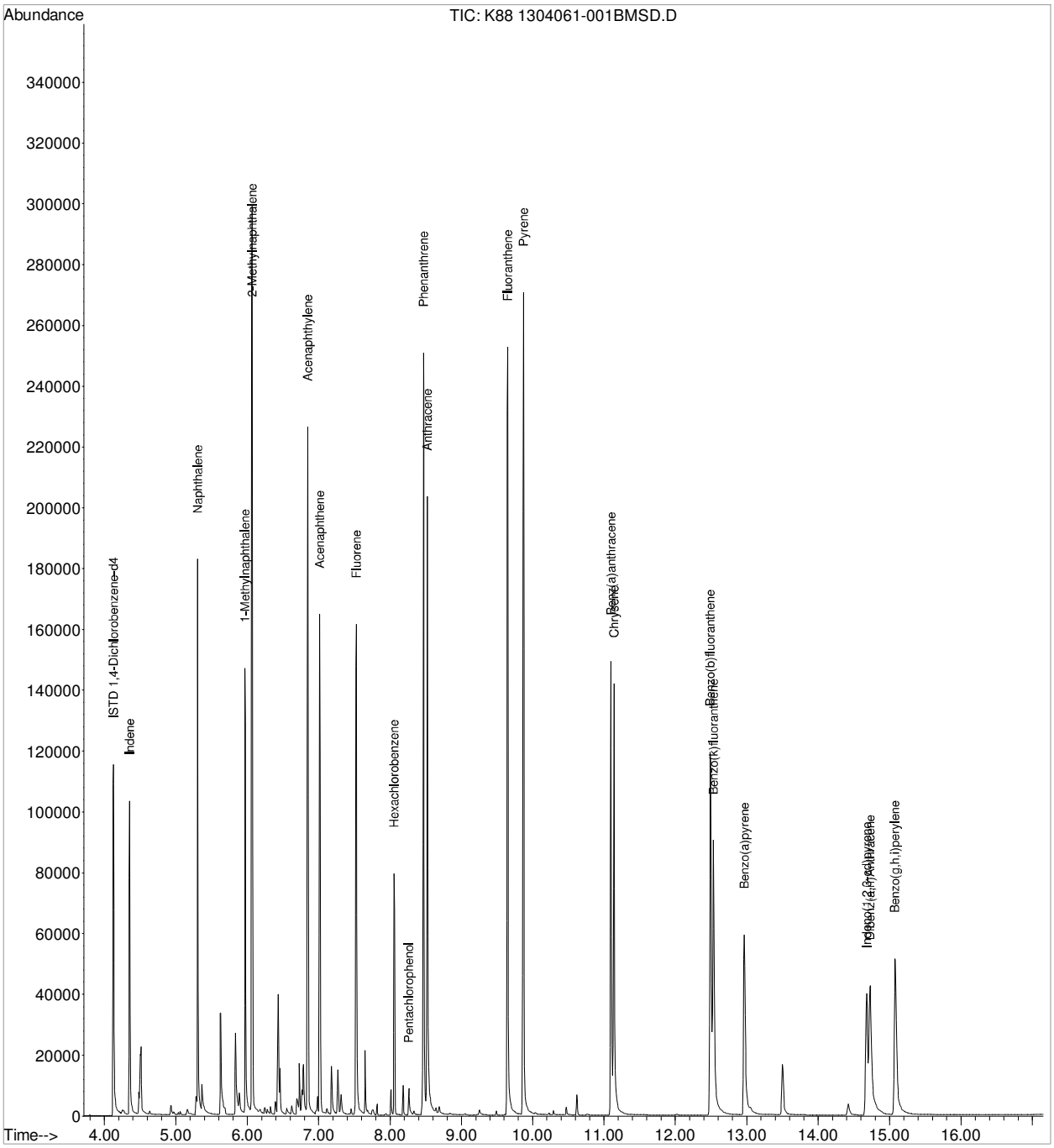
Quant Time: Apr 07 19:49:31 2013
Quant Method : C:\MSDCHEM\1\METHODS\PAH GWM QUANT SIM 03-20-2013.M
Quant Title : Semi-Volatile Compounds HP-GCMS 5973-B
QLast Update : Sun Apr 07 15:51:57 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : Z:\MSDCHEM\1\DATA\APR 13\07APR13-A\
Data File : K88 1304061-001BMSD.D
Acq On : 7 Apr 2013 10:07 pm
Operator : ALICIA HABERLE
Sample : 1304061-001BMSD
Misc : MSD
ALS Vial : 5 Sample Multiplier: 1

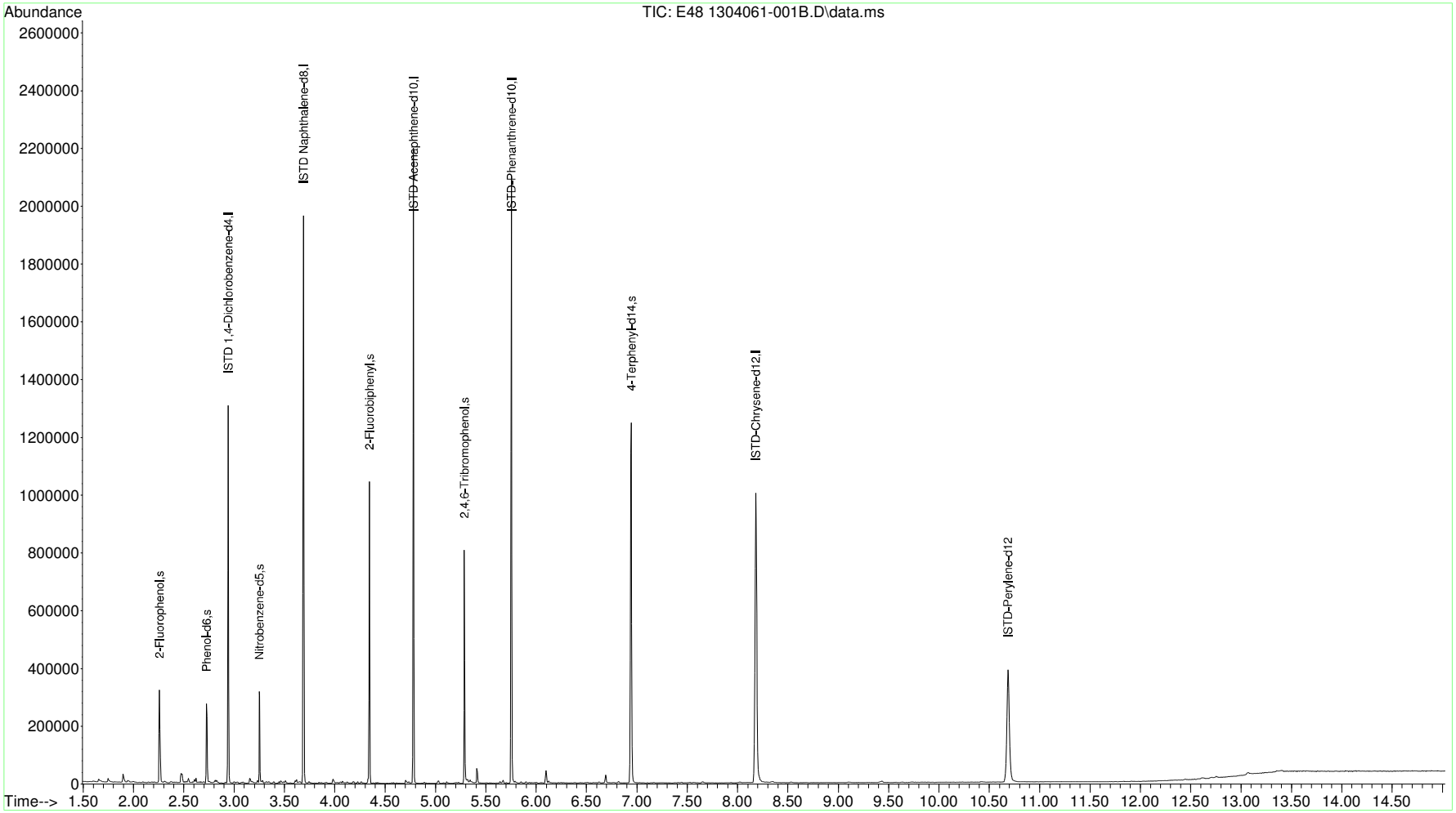
Quant Time: Apr 08 09:07:28 2013
Quant Method : C:\MSDCHEM\1\METHODS\PAH GWM QUANT SIM 03-20-2013.M
Quant Title : Semi-Volatile Compounds HP-GCMS 5973-B
QLast Update : Sun Apr 07 15:51:57 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\APR 13\07APR 13-A\
Data File : E48 1304061-001B.D
Acq On : 7 Apr 2013 10:55 pm
Operator : ALICIA HABERLE
Sample : 1304061-001B
Misc : SAMP
ALS Vial : 13 Sample Multiplier: 1

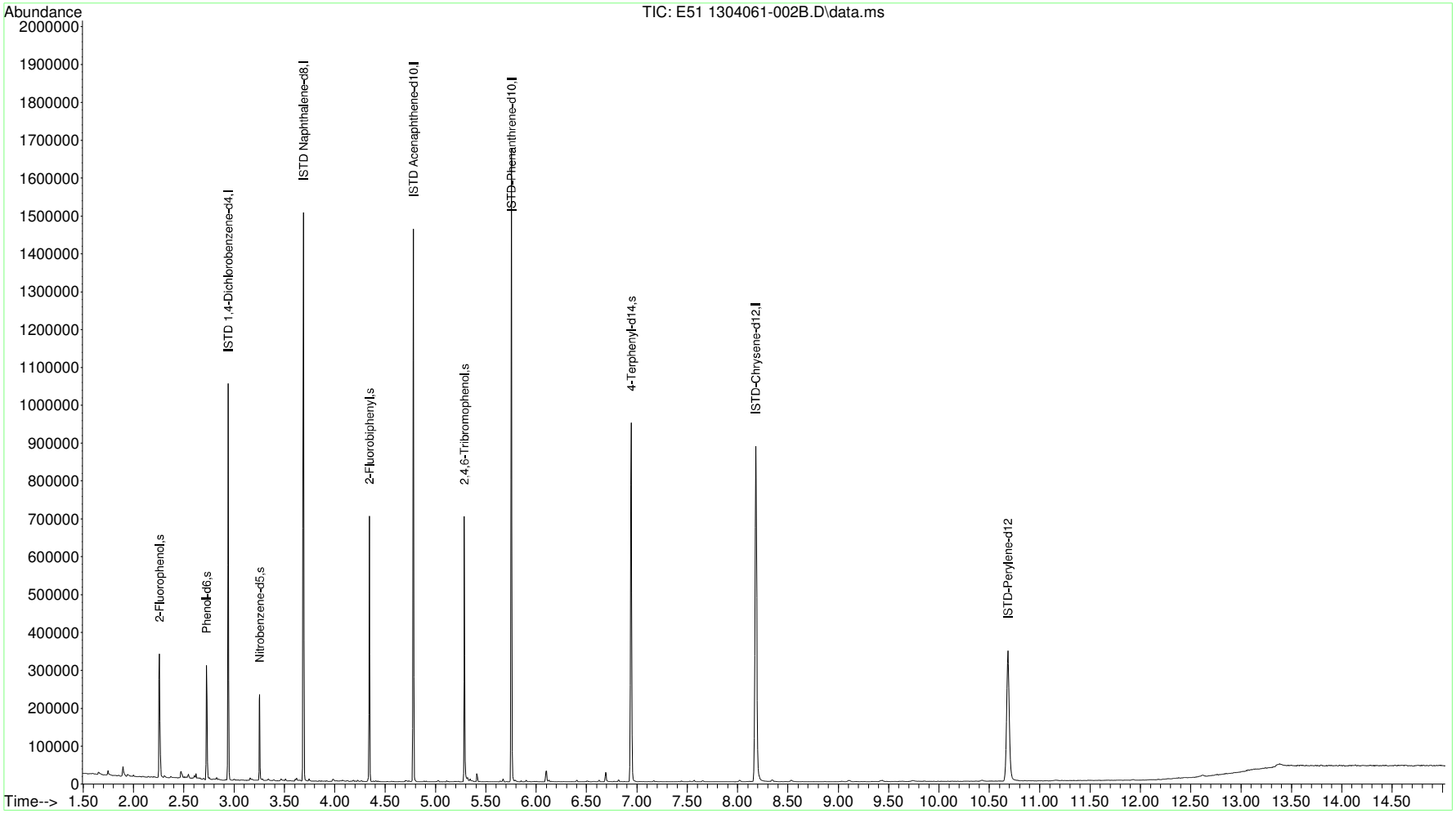
Quant Time: Apr 08 14:11:05 2013
Quant Method : C:\msdchem\1\methods\SVQUANT4-05-13.M
Quant Title : Semi-Volatile Compounds HP-GCMS 5973-B
QLast Update : Sat Apr 06 14:59:56 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\APR 13\07APR 13-A\
Data File : E51 1304061-002B.D
Acq On : 8 Apr 2013 12:05 am
Operator : ALICIA HABERLE
Sample : 1304061-002B
Misc : SAMP
ALS Vial : 16 Sample Multiplier: 1

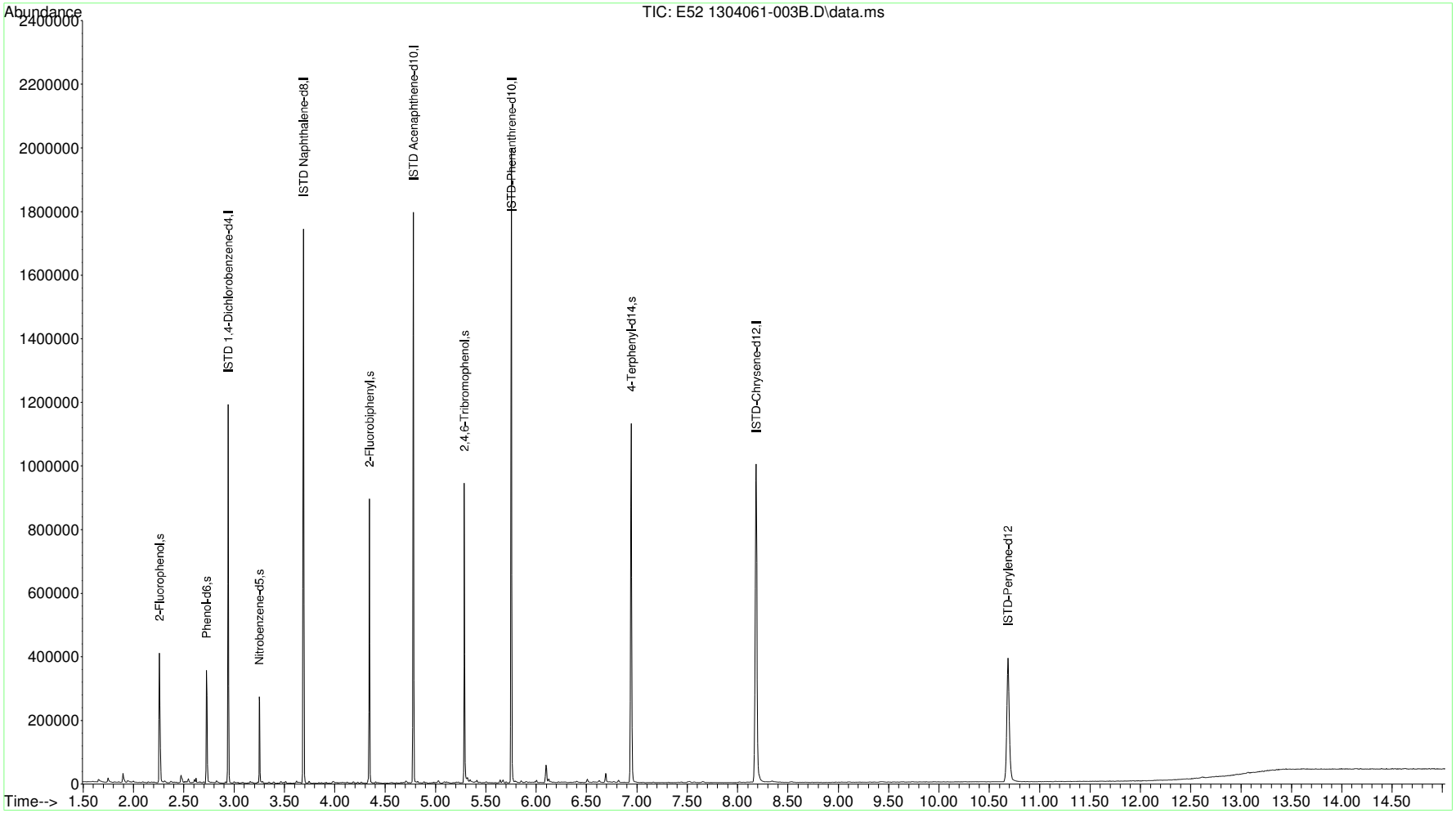
Quant Time: Apr 08 14:14:10 2013
Quant Method : C:\msdchem\1\methods\SVQUANT4-05-13.M
Quant Title : Semi-Volatile Compounds HP-GCMS 5973-B
QLast Update : Sat Apr 06 14:59:56 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\APR 13\07APR 13-A\
Data File : E52 1304061-003B.D
Acq On : 8 Apr 2013 12:28 am
Operator : ALICIA HABERLE
Sample : 1304061-003B
Misc : SAMP
ALS Vial : 17 Sample Multiplier: 1

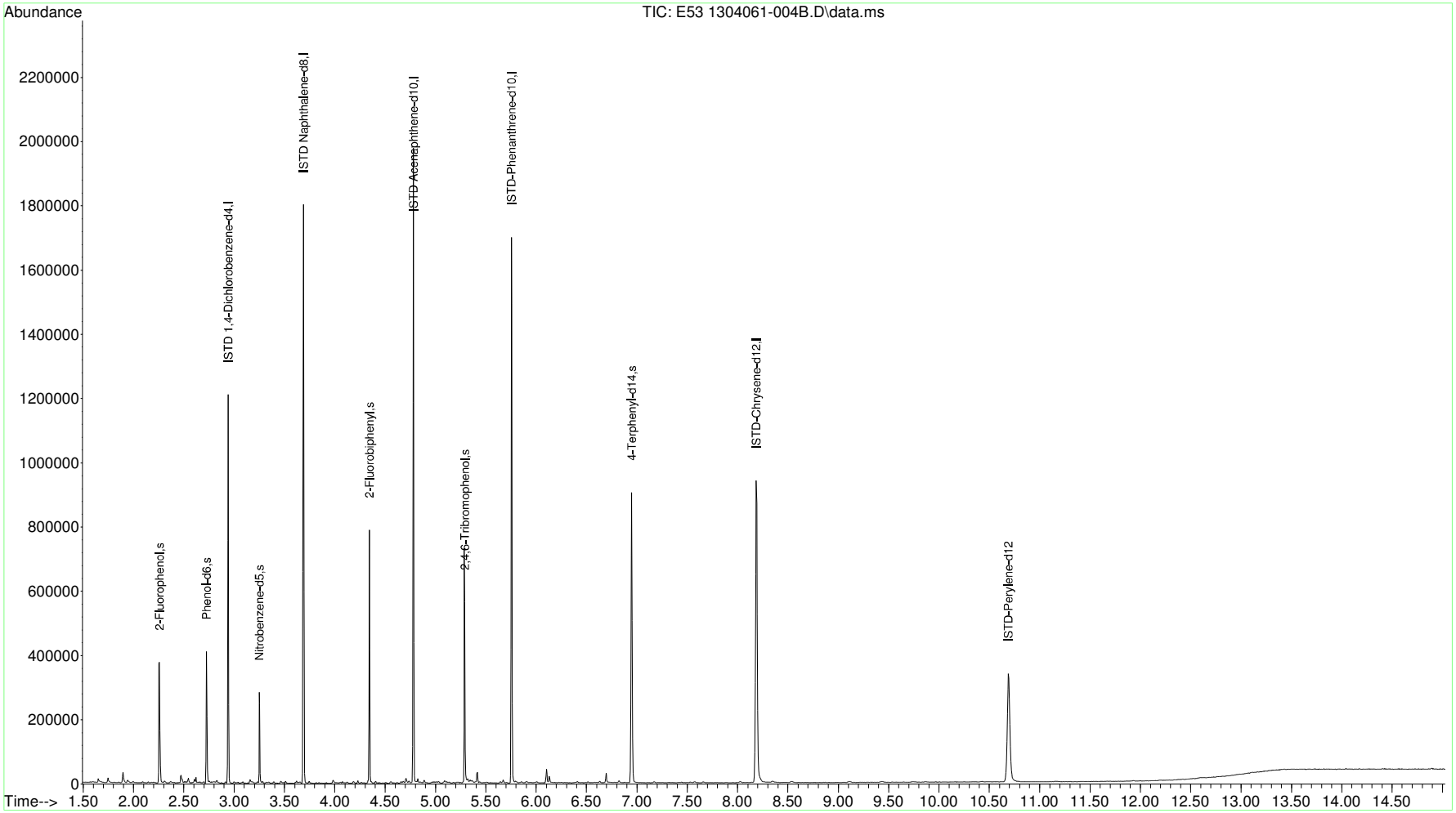
Quant Time: Apr 08 14:15:17 2013
Quant Method : C:\msdchem\1\methods\SVQUANT4-05-13.M
Quant Title : Semi-Volatile Compounds HP-GCMS 5973-B
QLast Update : Sat Apr 06 14:59:56 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\APR 13\07APR 13-A\
Data File : E53 1304061-004B.D
Acq On : 8 Apr 2013 12:52 am
Operator : ALICIA HABERLE
Sample : 1304061-004B
Misc : SAMP
ALS Vial : 18 Sample Multiplier: 1

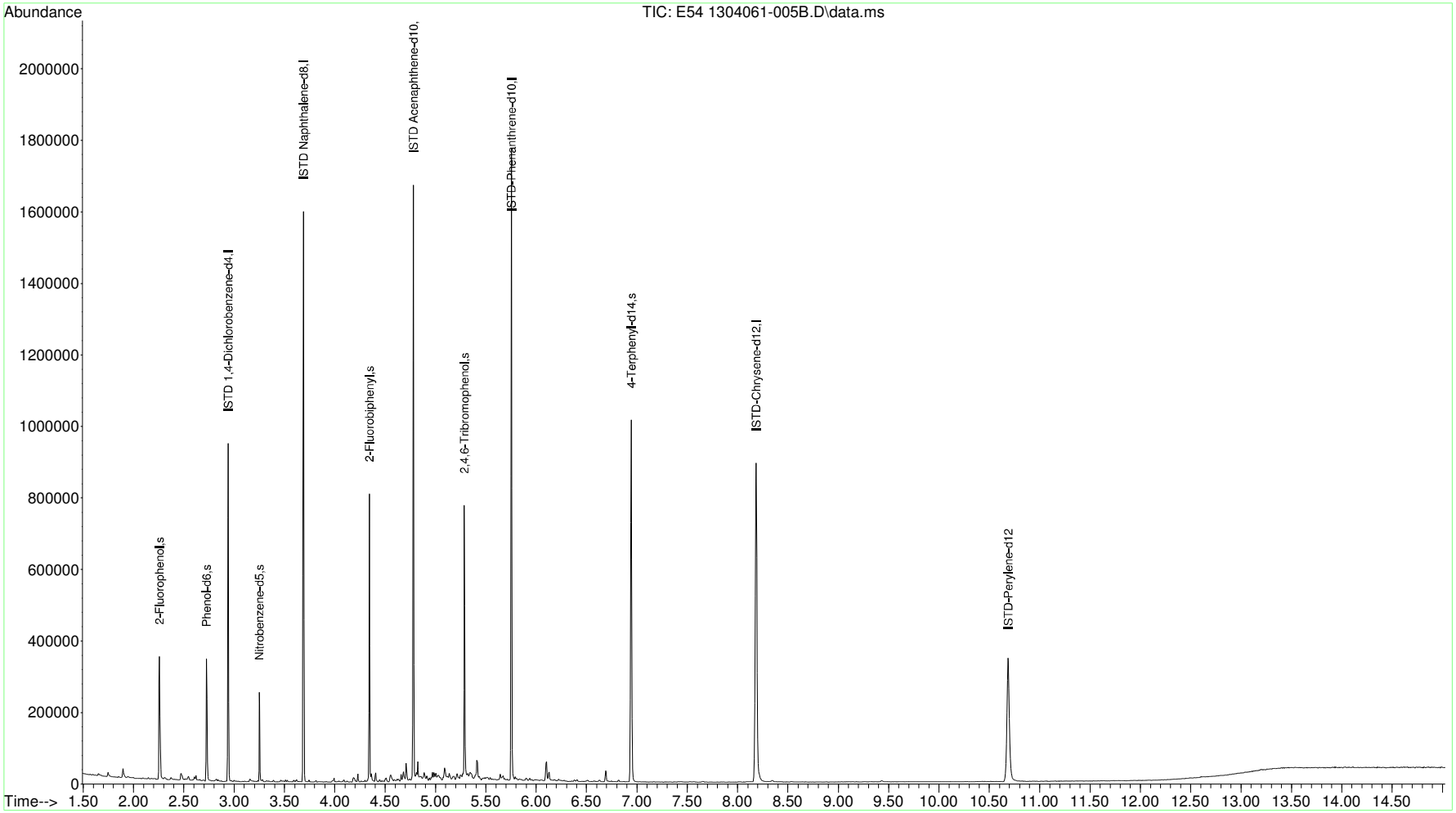
Quant Time: Apr 08 14:16:24 2013
Quant Method : C:\msdchem\1\methods\SVQUANT4-05-13.M
Quant Title : Semi-Volatile Compounds HP-GCMS 5973-B
QLast Update : Sat Apr 06 14:59:56 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\APR 13\07APR 13-A\
Data File : E54 1304061-005B.D
Acq On : 8 Apr 2013 1:15 am
Operator : ALICIA HABERLE
Sample : 1304061-005B
Misc : SAMP
ALS Vial : 19 Sample Multiplier: 1

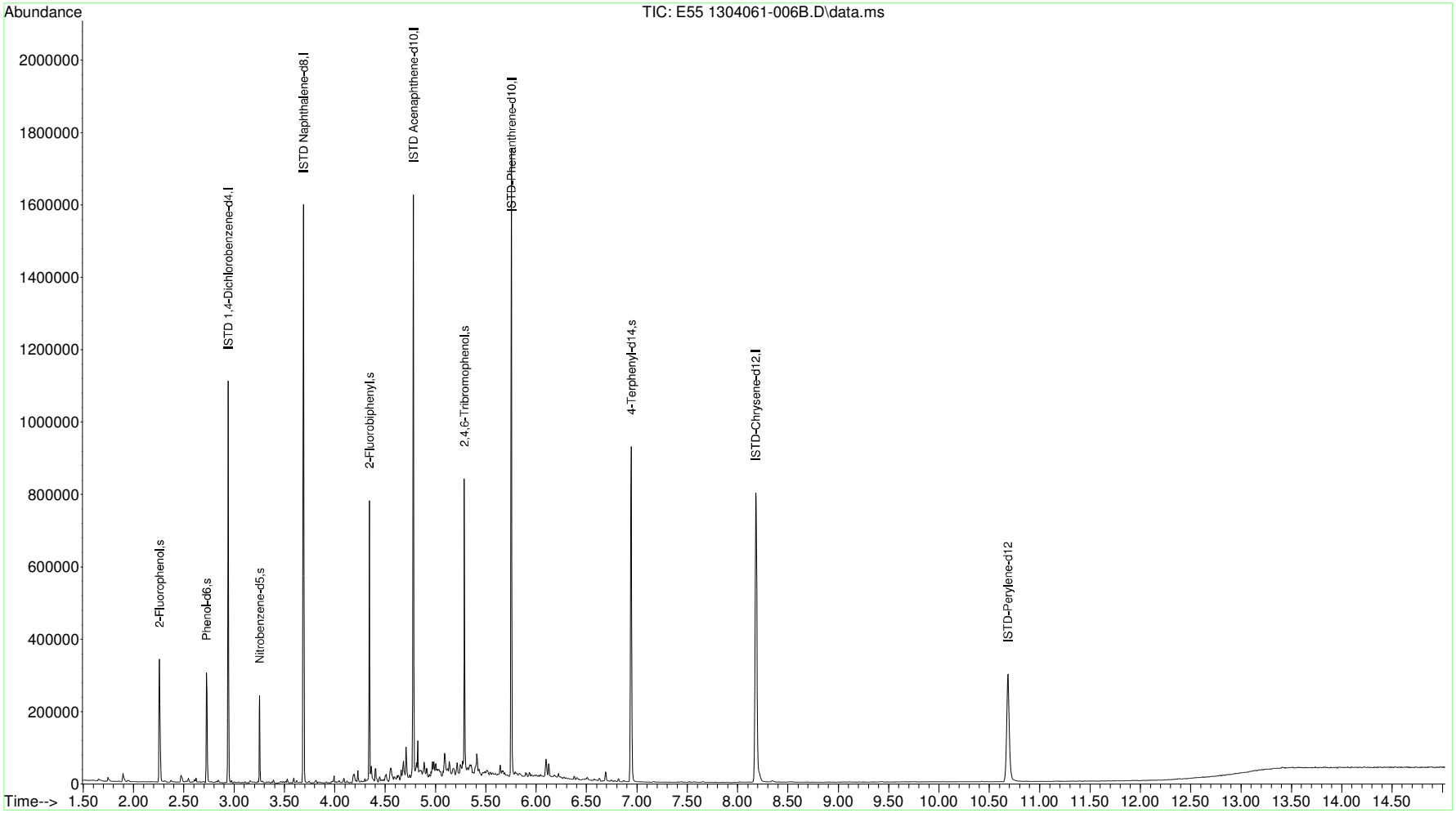
Quant Time: Apr 08 14:17:05 2013
Quant Method : C:\msdchem\1\methods\SVQUANT4-05-13.M
Quant Title : Semi-Volatile Compounds HP-GCMS 5973-B
QLast Update : Sat Apr 06 14:59:56 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\APR 13\07APR 13-A\
Data File : E55 1304061-006B.D
Acq On : 8 Apr 2013 1:39 am
Operator : ALICIA HABERLE
Sample : 1304061-006B
Misc : SAMP
ALS Vial : 20 Sample Multiplier: 1

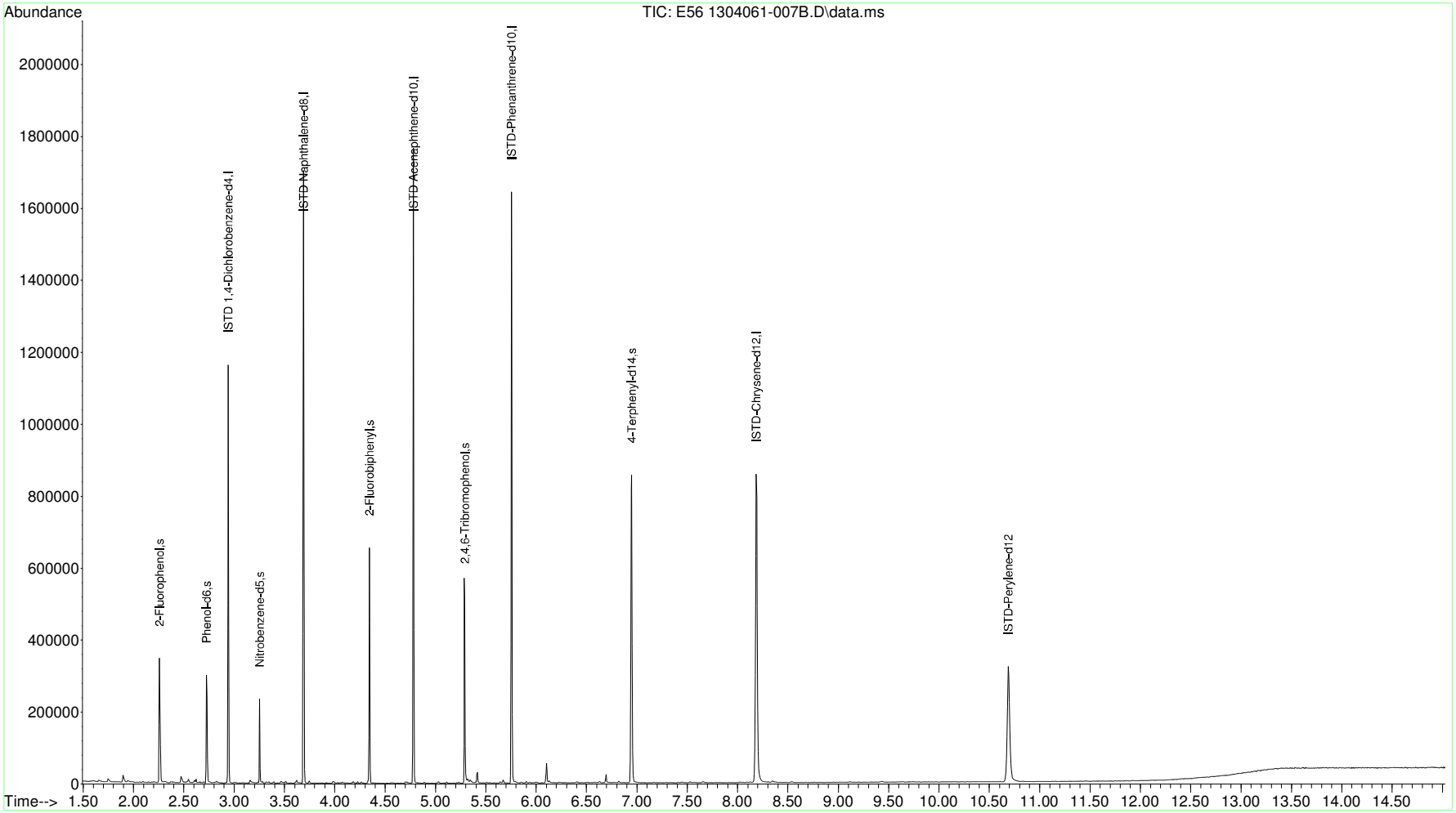
Quant Time: Apr 08 14:18:13 2013
Quant Method : C:\msdchem\1\methods\SVQUANT4-05-13.M
Quant Title : Semi-Volatile Compounds HP-GCMS 5973-B
QLast Update : Sat Apr 06 14:59:56 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\APR 13\07APR 13-A\
Data File : E56 1304061-007B.D
Acq On : 8 Apr 2013 2:02 am
Operator : ALICIA HABERLE
Sample : 1304061-007B
Misc : SAMP
ALS Vial : 21 Sample Multiplier: 1

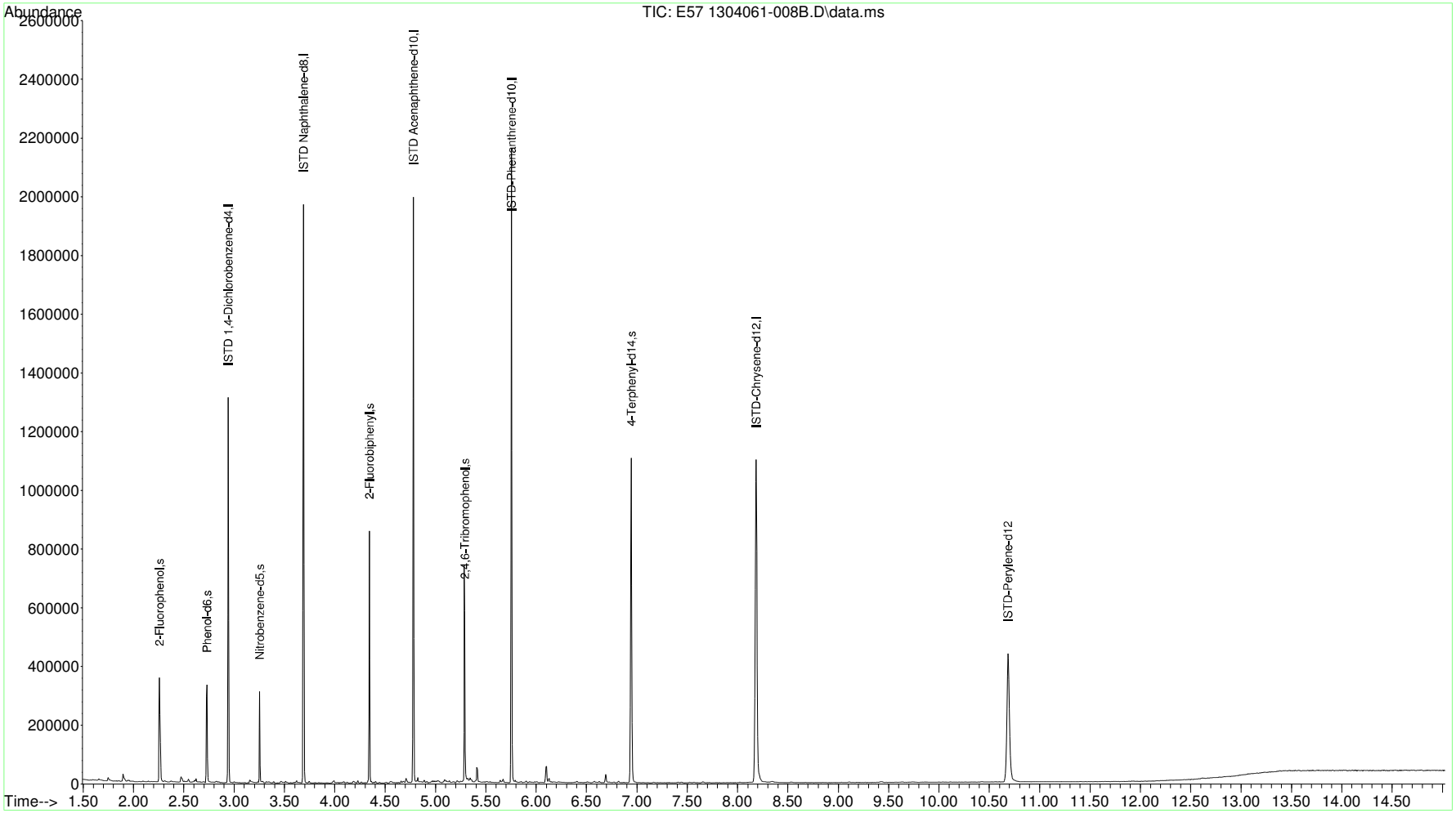
Quant Time: Apr 08 14:18:49 2013
Quant Method : C:\msdchem\1\methods\SVQUANT4-05-13.M
Quant Title : Semi-Volatile Compounds HP-GCMS 5973-B
QLast Update : Sat Apr 06 14:59:56 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\APR 13\07APR 13-A\
Data File : E57 1304061-008B.D
Acq On : 8 Apr 2013 2:26 am
Operator : ALICIA HABERLE
Sample : 1304061-008B
Misc : SAMP
ALS Vial : 22 Sample Multiplier: 1

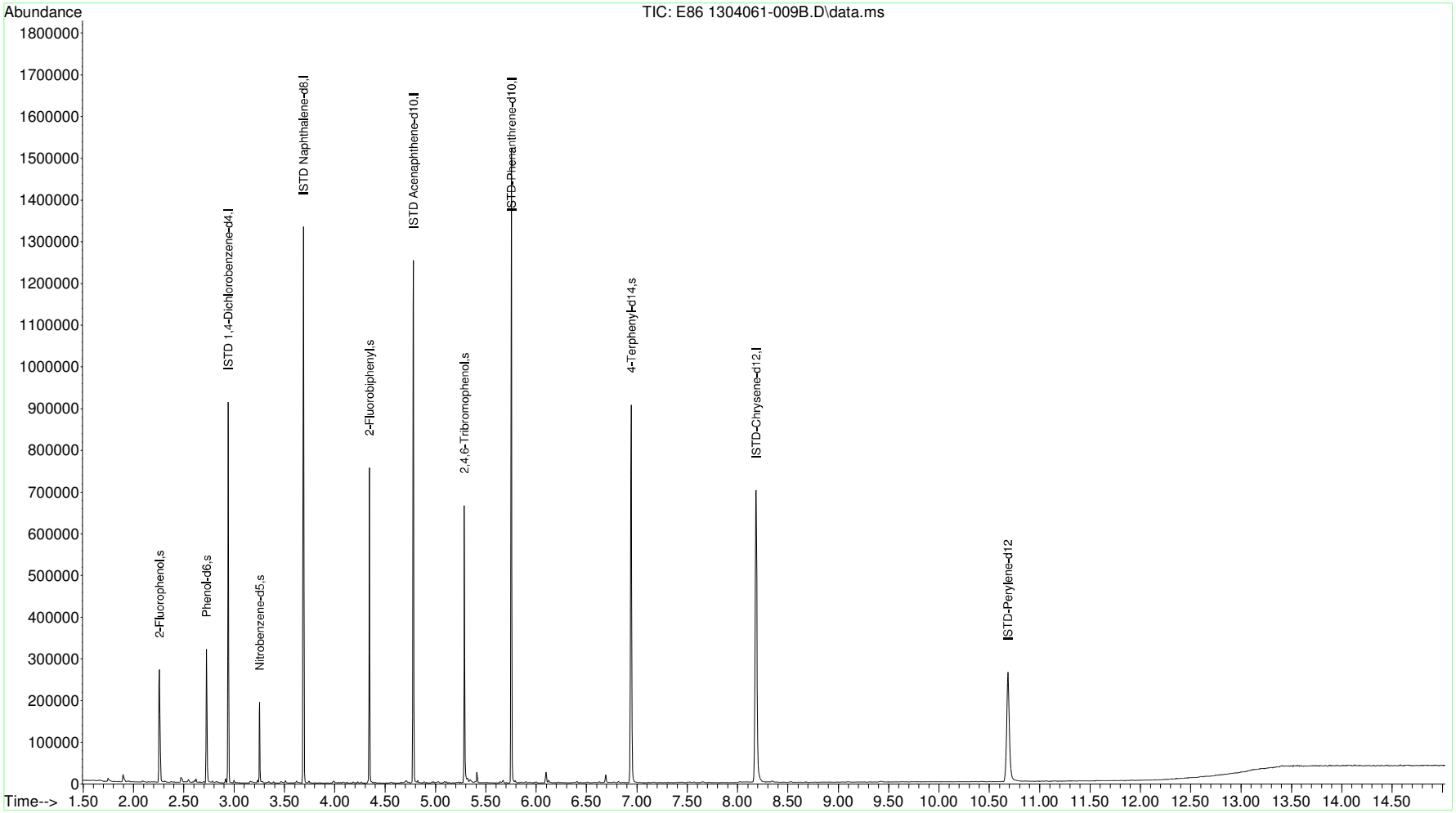
Quant Time: Apr 08 14:19:37 2013
Quant Method : C:\msdchem\1\methods\SVQUANT4-05-13.M
Quant Title : Semi-Volatile Compounds HP-GCMS 5973-B
QLast Update : Sat Apr 06 14:59:56 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\APR 13\07APR 13-A\
Data File : E86 1304061-009B.D
Acq On : 8 Apr 2013 2:24 pm
Operator : ALICIA HABERLE
Sample : 1304061-009B
Misc : SAMP
ALS Vial : 23 Sample Multiplier: 1

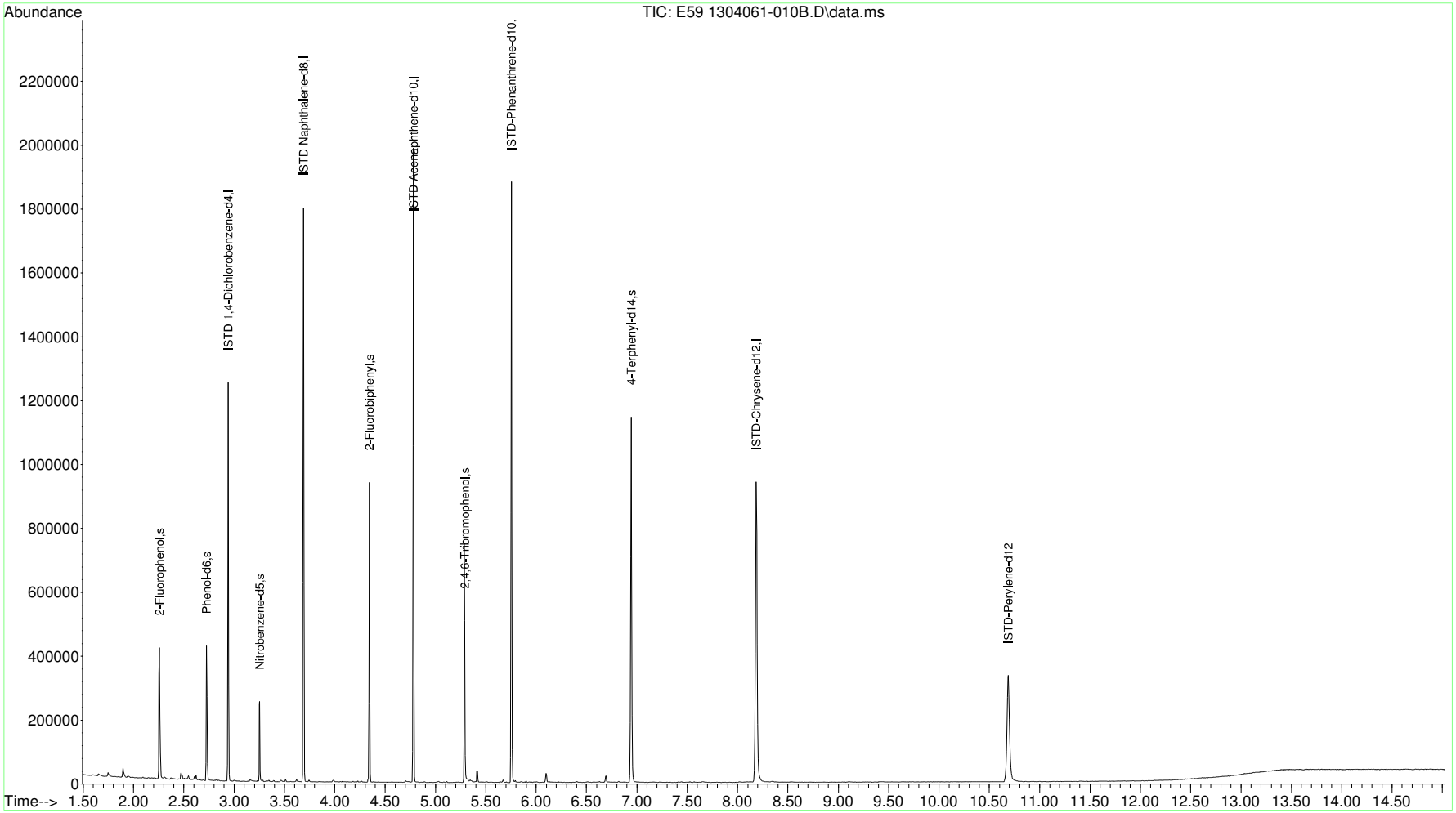
Quant Time: Apr 08 14:52:07 2013
Quant Method : C:\msdchem\1\methods\SVQUANT4-05-13.M
Quant Title : Semi-Volatile Compounds HP-GCMS 5973-B
QLast Update : Sat Apr 06 14:59:56 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\APR 13\07APR 13-A\
Data File : E59 1304061-010B.D
Acq On : 8 Apr 2013 3:13 am
Operator : ALICIA HABERLE
Sample : 1304061-010B
Misc : SAMP
ALS Vial : 24 Sample Multiplier: 1

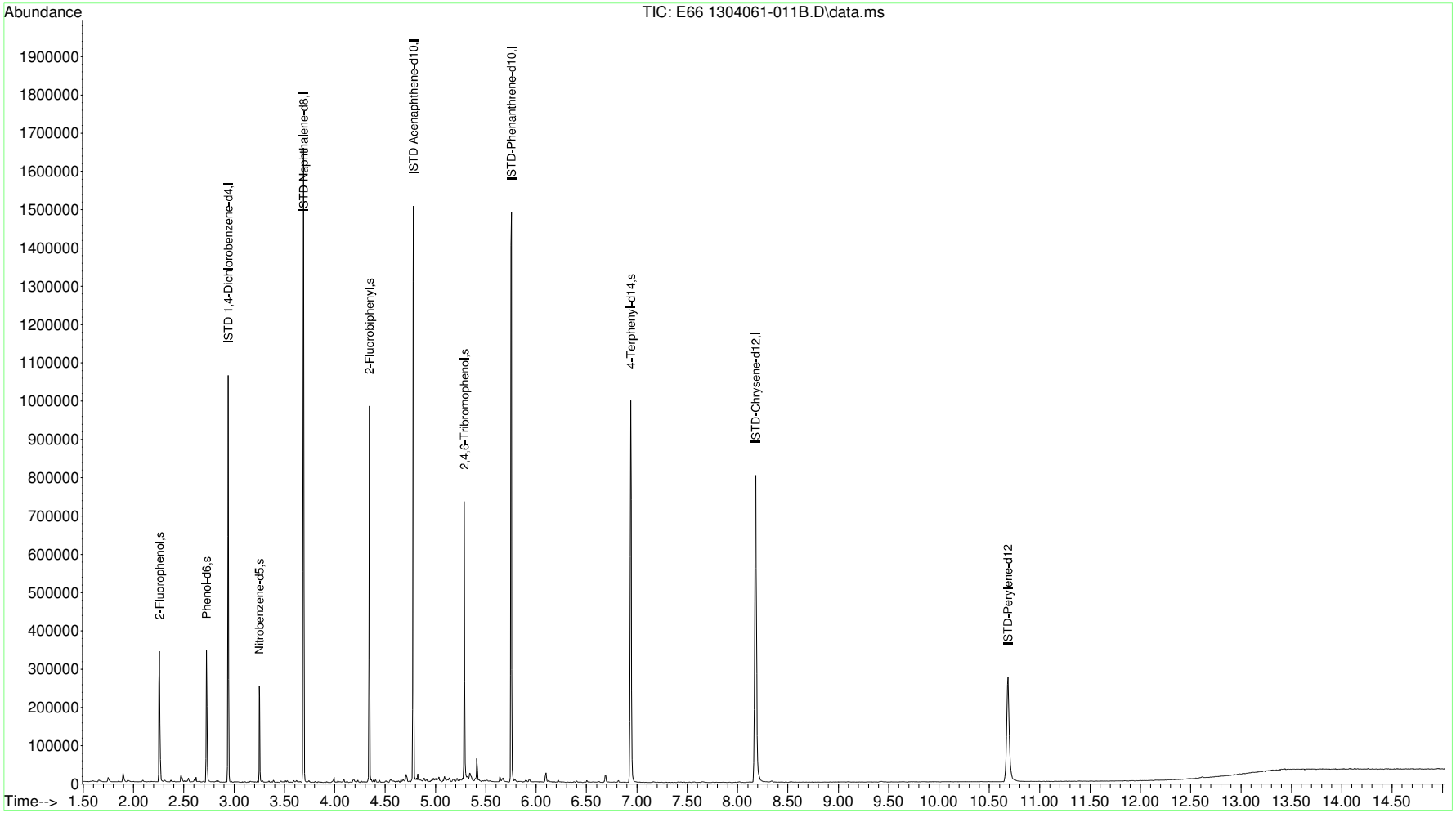
Quant Time: Apr 08 14:20:38 2013
Quant Method : C:\msdchem\1\methods\SVQUANT4-05-13.M
Quant Title : Semi-Volatile Compounds HP-GCMS 5973-B
QLast Update : Sat Apr 06 14:59:56 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\APR 13\07APR 13-A\
Data File : E66 1304061-011B.D
Acq On : 8 Apr 2013 6:40 am
Operator : ALICIA HABERLE
Sample : 1304061-011B
Misc : SAMP
ALS Vial : 25 Sample Multiplier: 1

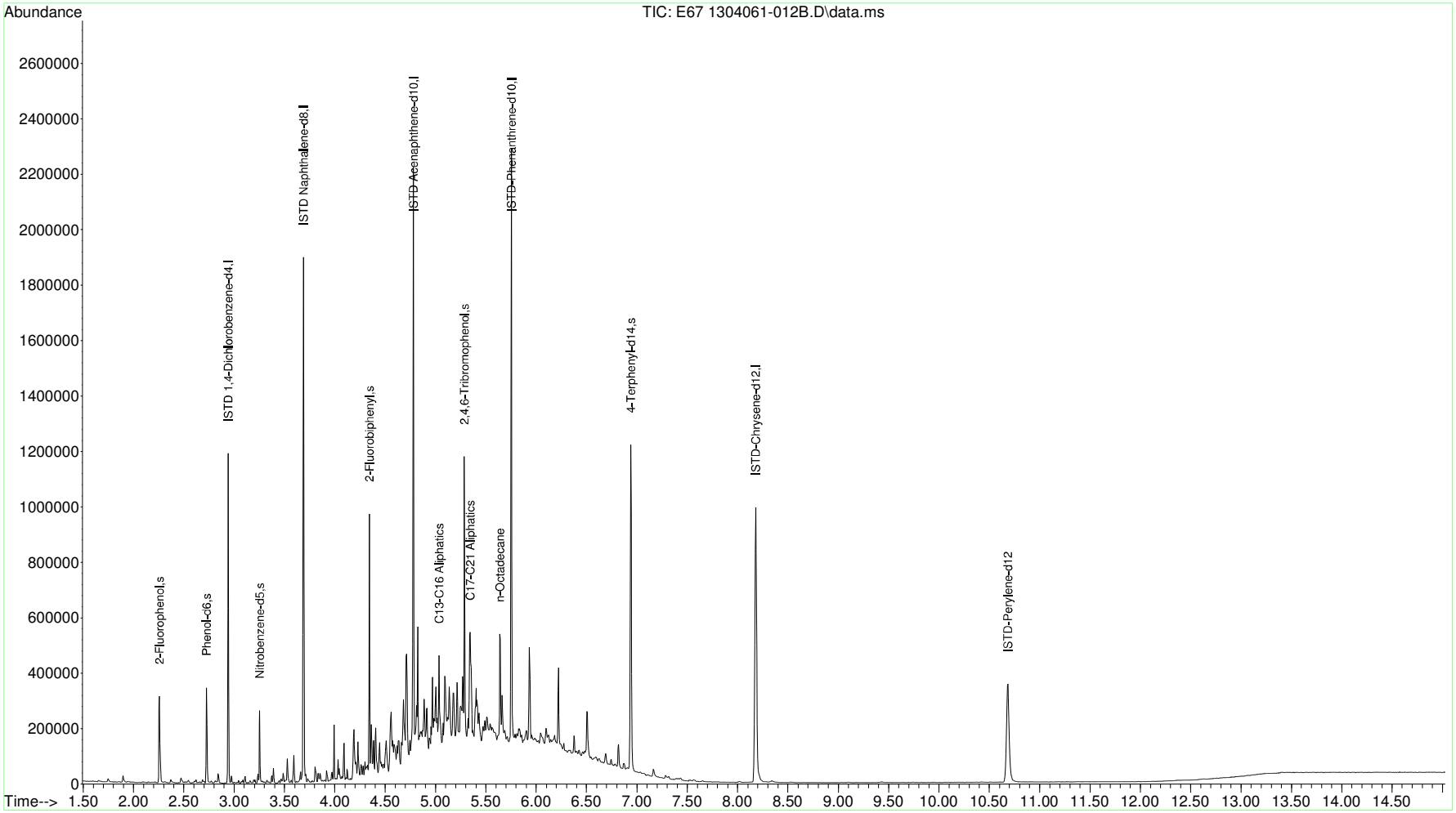
Quant Time: Apr 08 14:21:15 2013
Quant Method : C:\msdchem\1\methods\SVQUANT4-05-13.M
Quant Title : Semi-Volatile Compounds HP-GCMS 5973-B
QLast Update : Sat Apr 06 14:59:56 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\APR 13\07APR 13-A\
Data File : E67 1304061-012B.D
Acq On : 8 Apr 2013 7:04 am
Operator : ALICIA HABERLE
Sample : 1304061-012B
Misc : SAMP
ALS Vial : 26 Sample Multiplier: 1

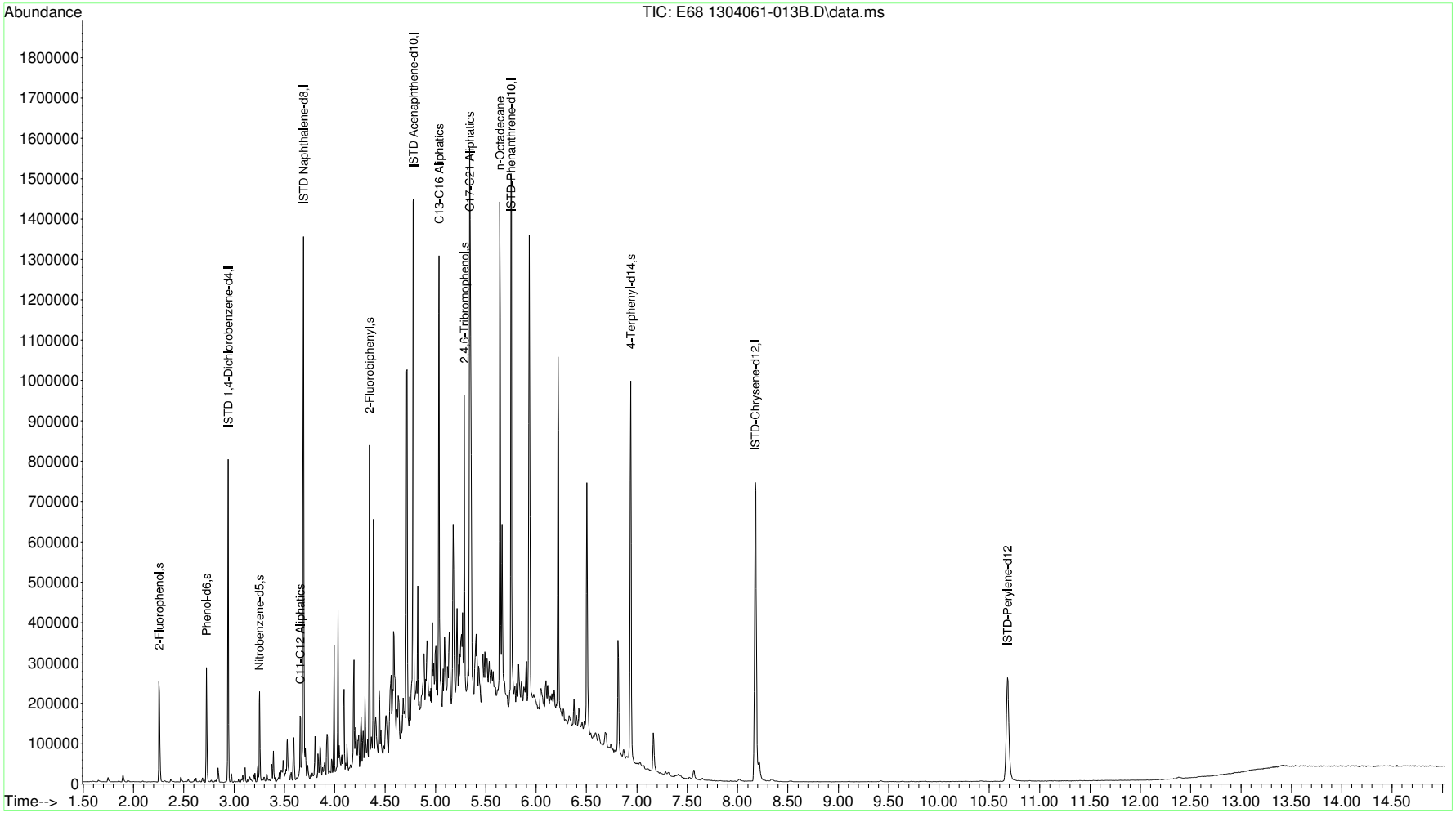
Quant Time: Apr 08 15:41:57 2013
Quant Method : C:\msdchem\1\methods\SVQUANT4-05-13.M
Quant Title : Semi-Volatile Compounds HP-GCMS 5973-B
QLast Update : Sat Apr 06 14:59:56 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\APR 13\07APR 13-A\
Data File : E68 1304061-013B.D
Acq On : 8 Apr 2013 7:27 am
Operator : ALICIA HABERLE
Sample : 1304061-013B
Misc : SAMP
ALS Vial : 27 Sample Multiplier: 1

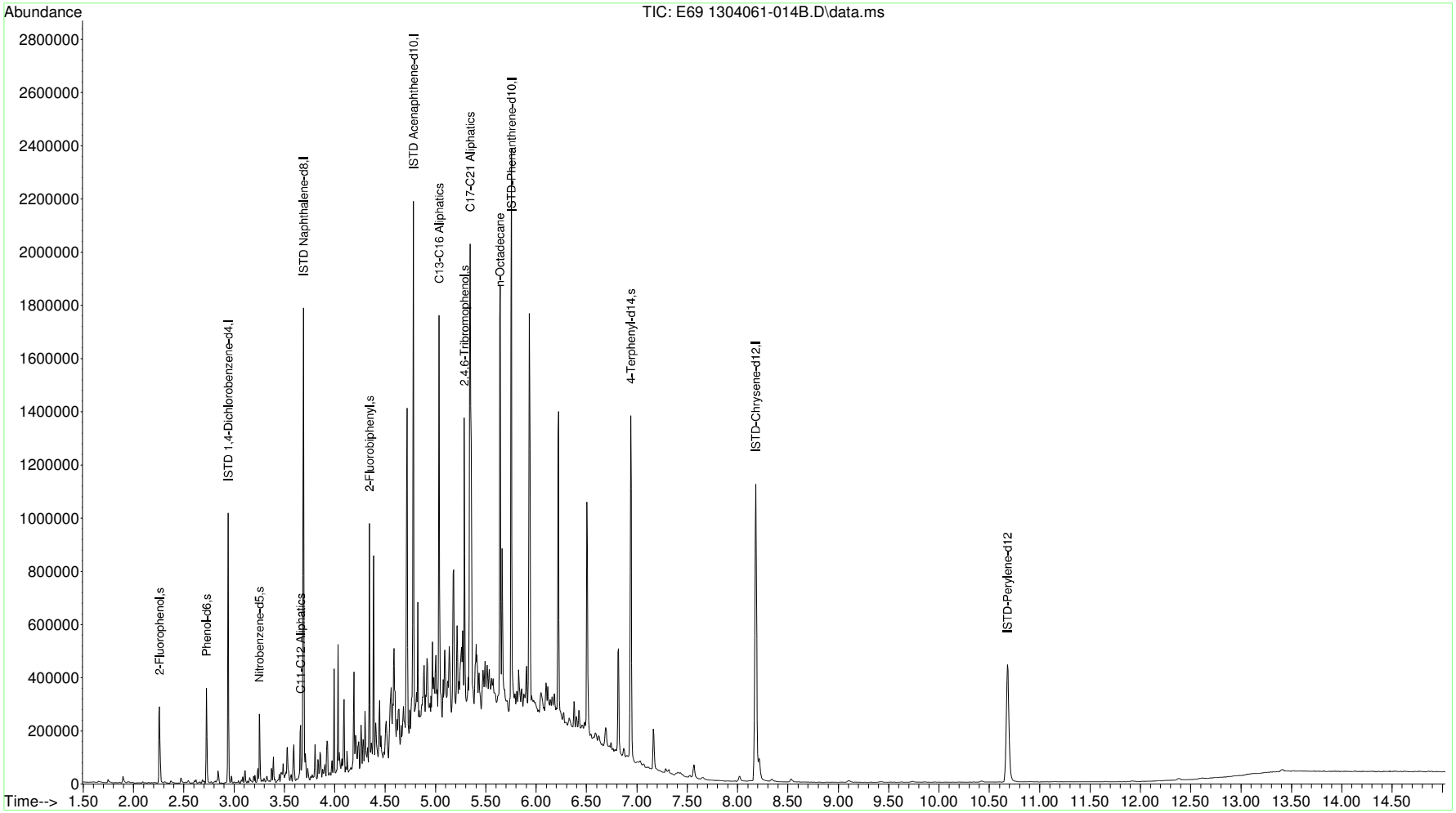
Quant Time: Apr 08 15:42:33 2013
Quant Method : C:\msdchem\1\methods\SVQUANT4-05-13.M
Quant Title : Semi-Volatile Compounds HP-GCMS 5973-B
QLast Update : Sat Apr 06 14:59:56 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\APR 13\07APR 13-A\
Data File : E69 1304061-014B.D
Acq On : 8 Apr 2013 7:50 am
Operator : ALICIA HABERLE
Sample : 1304061-014B
Misc : SAMP
ALS Vial : 28 Sample Multiplier: 1

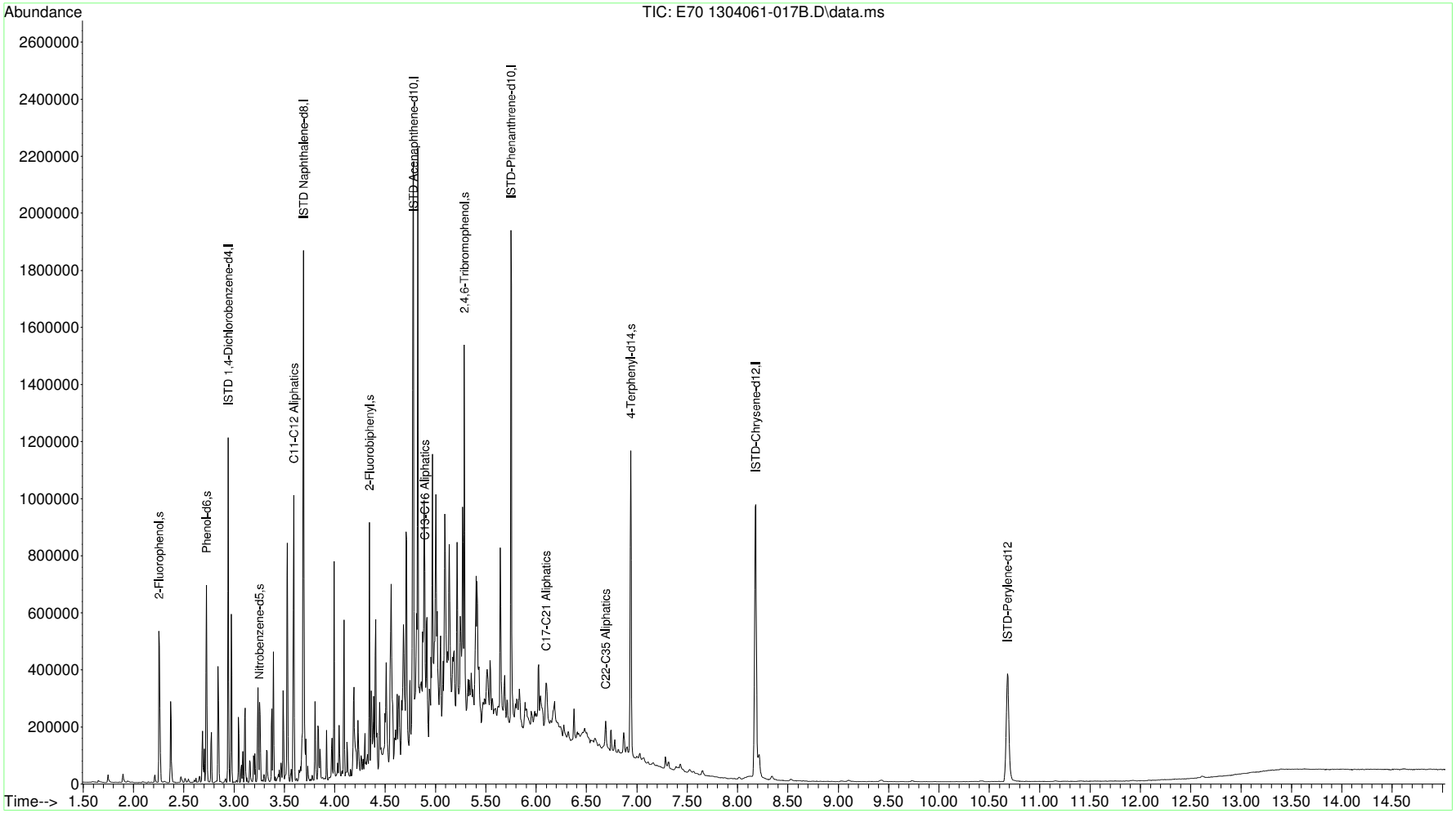
Quant Time: Apr 08 15:43:05 2013
Quant Method : C:\msdchem\1\methods\SVQUANT4-05-13.M
Quant Title : Semi-Volatile Compounds HP-GCMS 5973-B
QLast Update : Sat Apr 06 14:59:56 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\APR 13\07APR 13-A\
Data File : E70 1304061-017B.D
Acq On : 8 Apr 2013 8:13 am
Operator : ALICIA HABERLE
Sample : 1304061-017B
Misc : SAMP
ALS Vial : 29 Sample Multiplier: 1

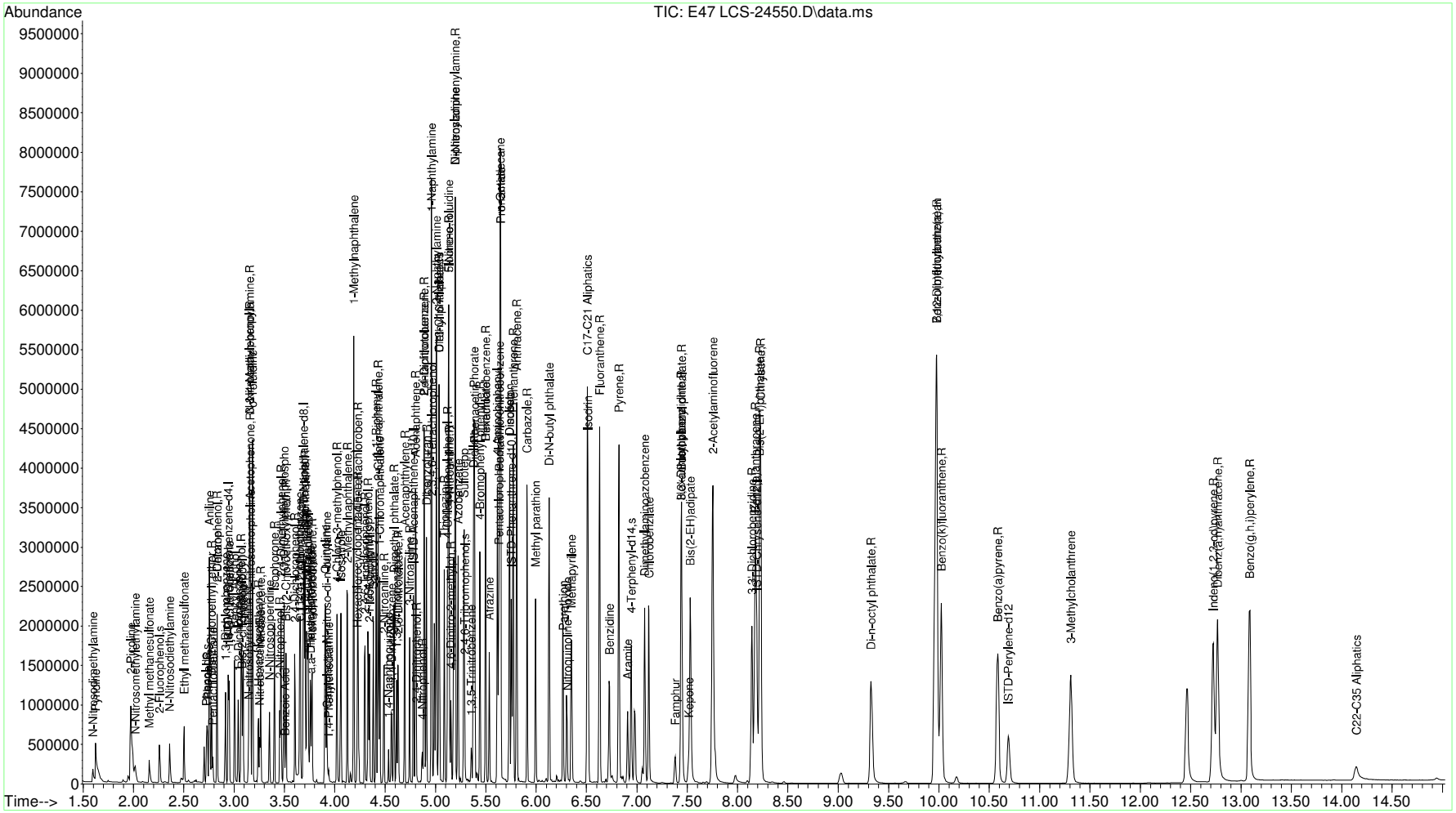
Quant Time: Apr 08 15:43:32 2013
Quant Method : C:\msdchem\1\methods\SVQUANT4-05-13.M
Quant Title : Semi-Volatile Compounds HP-GCMS 5973-B
QLast Update : Sat Apr 06 14:59:56 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\APR 13\07APR 13-A\
Data File : E47 LCS-24550.D
Acq On : 7 Apr 2013 10:31 pm
Operator : ALICIA HABERLE
Sample : LCS-24550
Misc : LCS
ALS Vial : 12 Sample Multiplier: 1

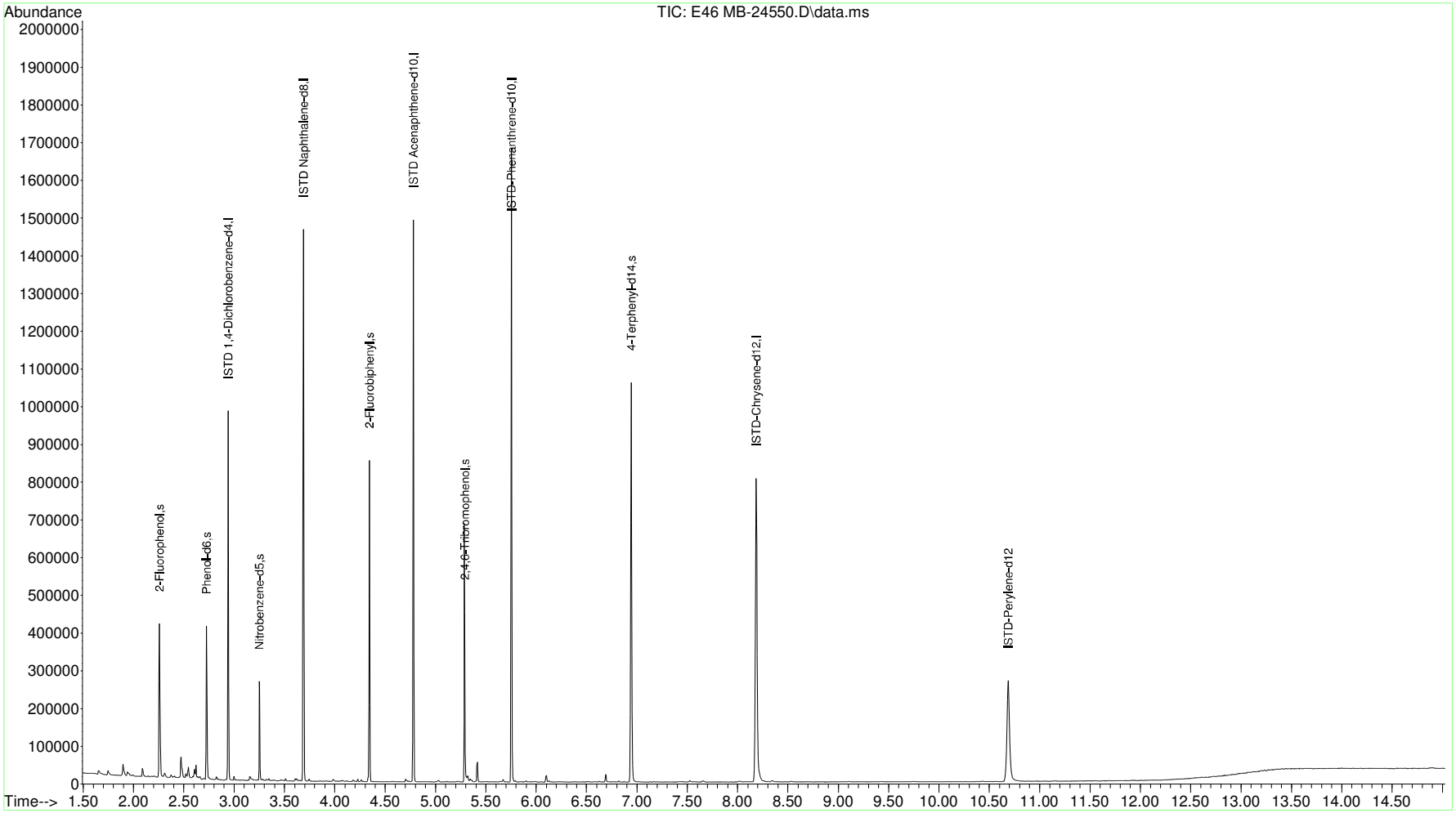
Quant Time: Apr 08 14:10:00 2013
Quant Method : C:\msdchem\1\methods\SVQUANT4-05-13.M
Quant Title : Semi-Volatile Compounds HP-GCMS 5973-B
QLast Update : Sat Apr 06 14:59:56 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\APR 13\07APR 13-A\
Data File : E46 MB-24550.D
Acq On : 7 Apr 2013 10:08 pm
Operator : ALICIA HABERLE
Sample : MB-24550
Misc : MBLK
ALS Vial : 11 Sample Multiplier: 1

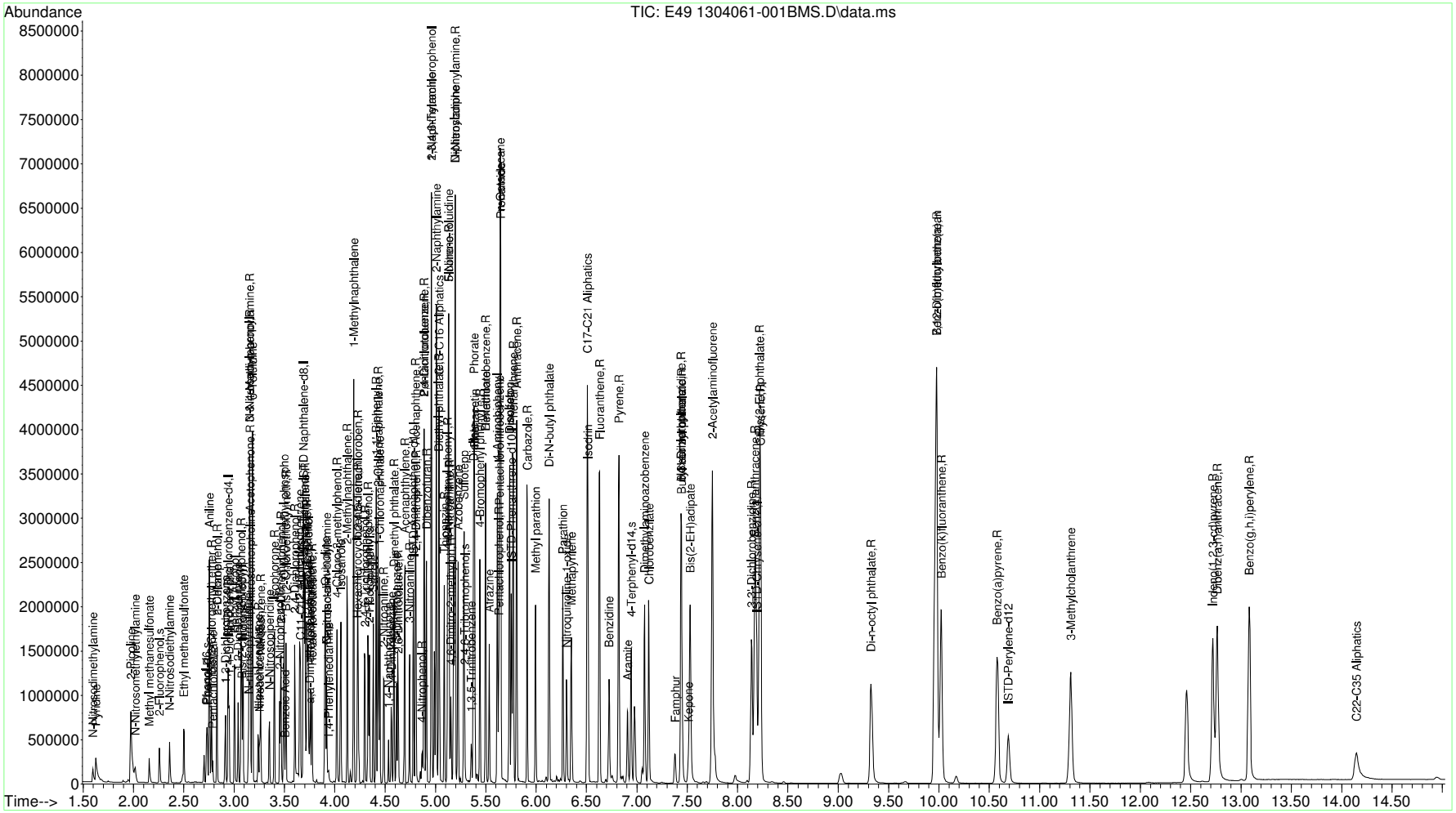
Quant Time: Apr 08 14:08:11 2013
Quant Method : C:\msdchem\1\methods\SVQUANT4-05-13.M
Quant Title : Semi-Volatile Compounds HP-GCMS 5973-B
QLast Update : Sat Apr 06 14:59:56 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\APR 13\07APR 13-A\
Data File : E49 1304061-001BMS.D
Acq On : 7 Apr 2013 11:18 pm
Operator : ALICIA HABERLE
Sample : 1304061-001BMS
Misc : MS
ALS Vial : 14 Sample Multiplier: 1

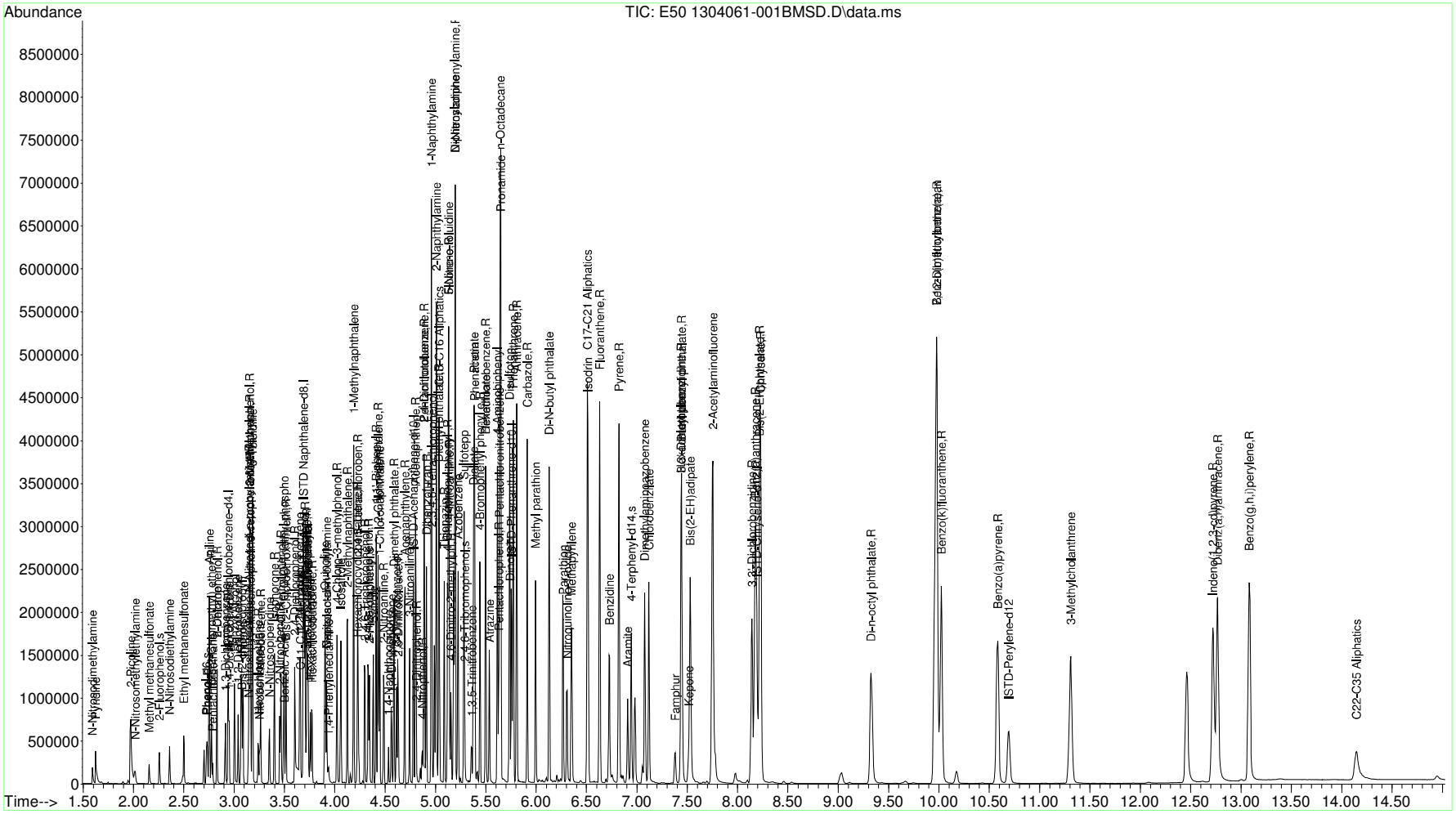
Quant Time: Apr 08 14:11:59 2013
Quant Method : C:\msdchem\1\methods\SVQUANT4-05-13.M
Quant Title : Semi-Volatile Compounds HP-GCMS 5973-B
QLast Update : Sat Apr 06 14:59:56 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\APR 13\07APR 13-A\
Data File : E50 1304061-001BMSD.D
Acq On : 7 Apr 2013 11:41 pm
Operator : ALICIA HABERLE
Sample : 1304061-001BMSD
Misc : MSD
ALS Vial : 15 Sample Multiplier: 1

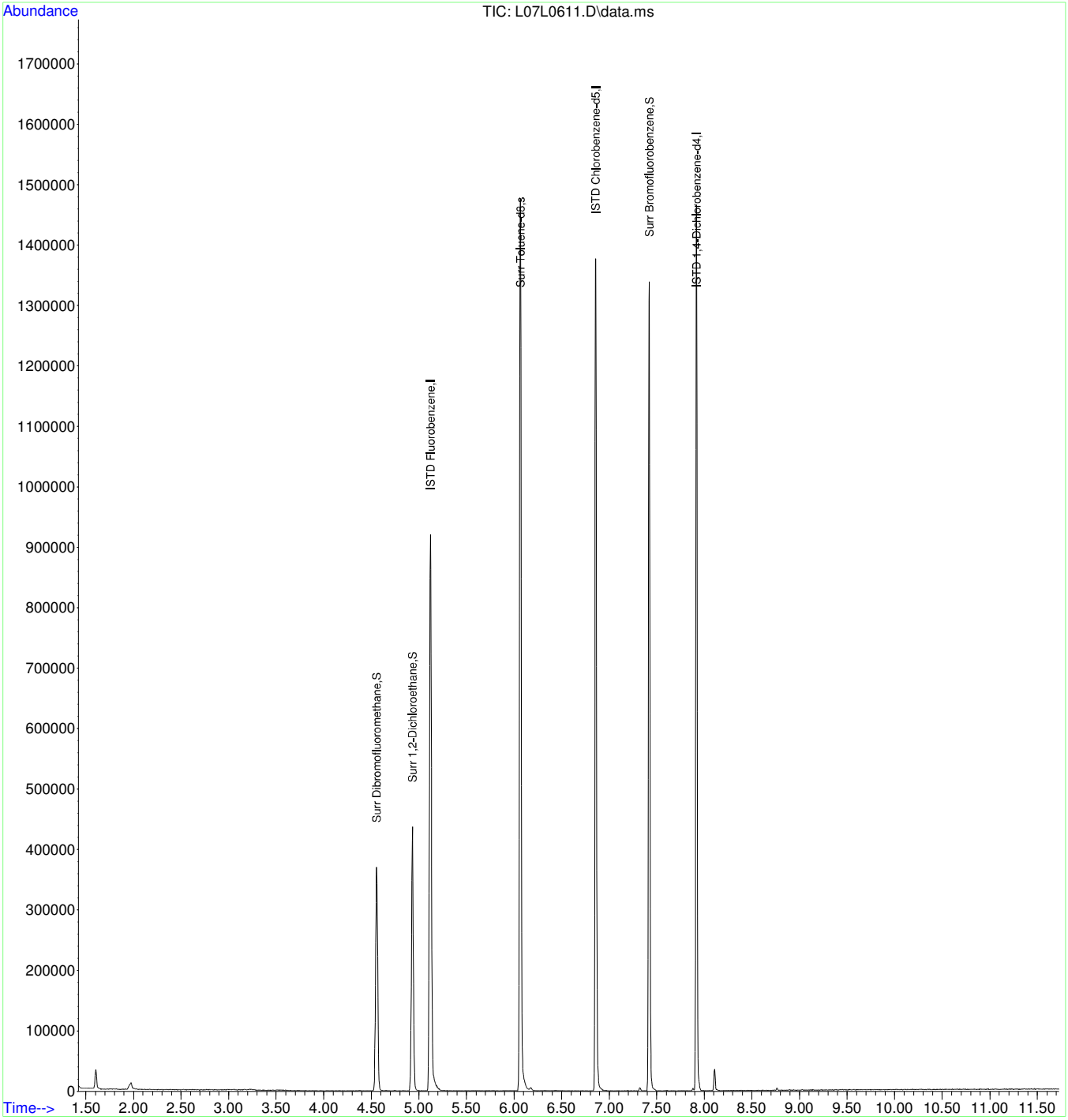
Quant Time: Apr 08 14:12:36 2013
Quant Method : C:\msdchem\1\methods\SVQUANT4-05-13.M
Quant Title : Semi-Volatile Compounds HP-GCMS 5973-B
QLast Update : Sat Apr 06 14:59:56 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\APR13-D\02APR13\
Data File : L07L0611.D
Acq On : 2 Apr 2013 6:04 pm
Operator : AAP
Sample : 1304061-001A
Misc : SAMP 5.0ML 1OF3 SB
ALS Vial : 8 Sample Multiplier: 1

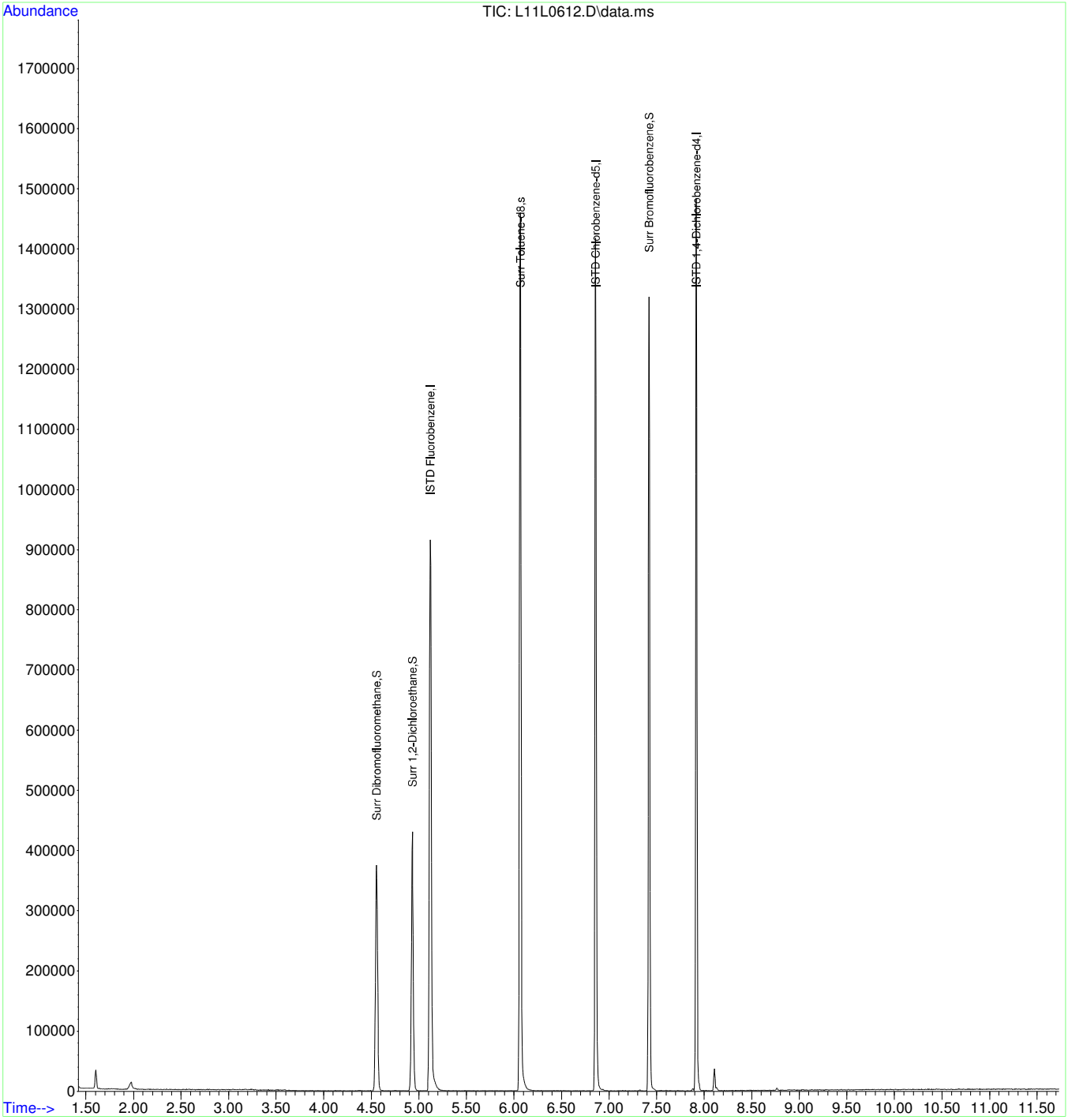
Quant Time: Apr 03 09:32:27 2013
Quant Method : C:\MSDCHEM\1\METHODS\DFULLW_17.M
Quant Title : VOA Calibration
QLast Update : Sat Mar 30 17:43:44 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\APR13-D\02APR13\
Data File : L11L0612.D
Acq On : 2 Apr 2013 7:20 pm
Operator : AAP
Sample : 1304061-002A
Misc : SAMP 5.0ML 1OF3 SB
ALS Vial : 12 Sample Multiplier: 1

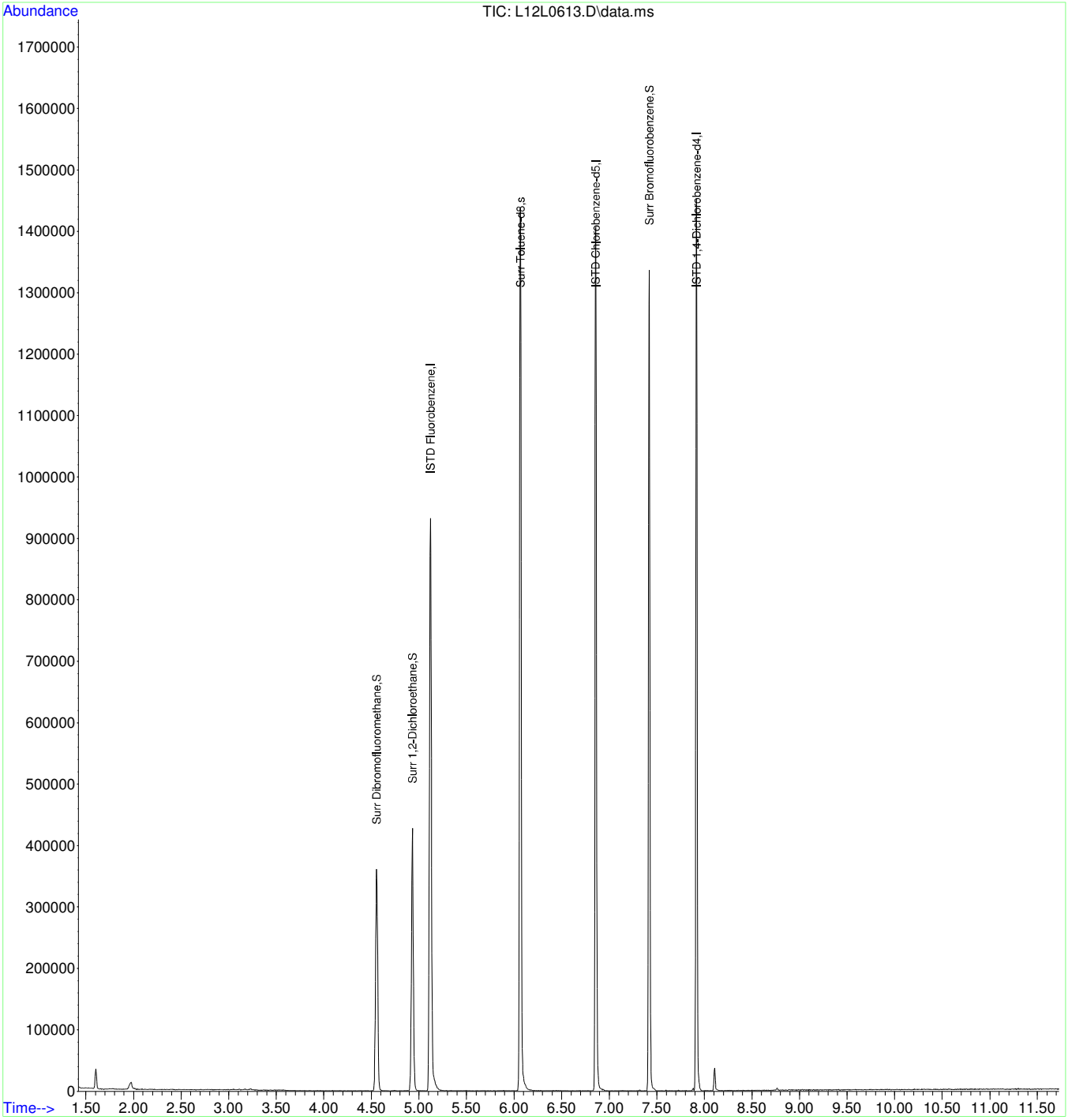
Quant Time: Apr 03 09:33:25 2013
Quant Method : C:\MSDCHEM\1\METHODS\DFULLW_17.M
Quant Title : VOA Calibration
QLast Update : Sat Mar 30 17:43:44 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\APR13-D\02APR13\
Data File : L12L0613.D
Acq On : 2 Apr 2013 7:39 pm
Operator : AAP
Sample : 1304061-003A
Misc : SAMP 5.0ML 1OF3 SB
ALS Vial : 13 Sample Multiplier: 1

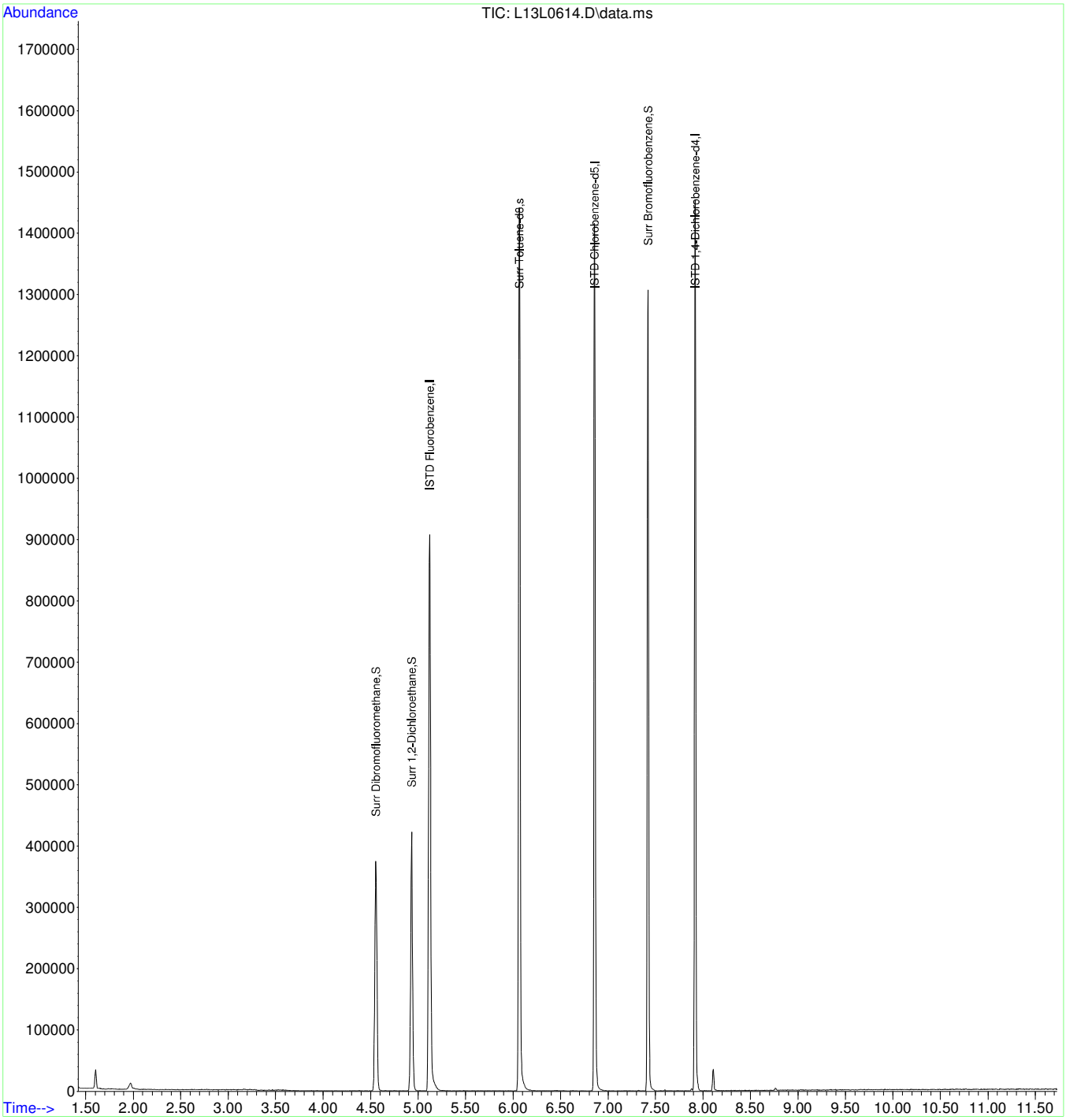
Quant Time: Apr 03 09:33:48 2013
Quant Method : C:\MSDCHEM\1\METHODS\DFULLW_17.M
Quant Title : VOA Calibration
QLast Update : Sat Mar 30 17:43:44 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\APR13-D\02APR13\
Data File : L13L0614.D
Acq On : 2 Apr 2013 7:58 pm
Operator : AAP
Sample : 1304061-004A
Misc : SAMP 5.0ML 1OF3 SB
ALS Vial : 14 Sample Multiplier: 1

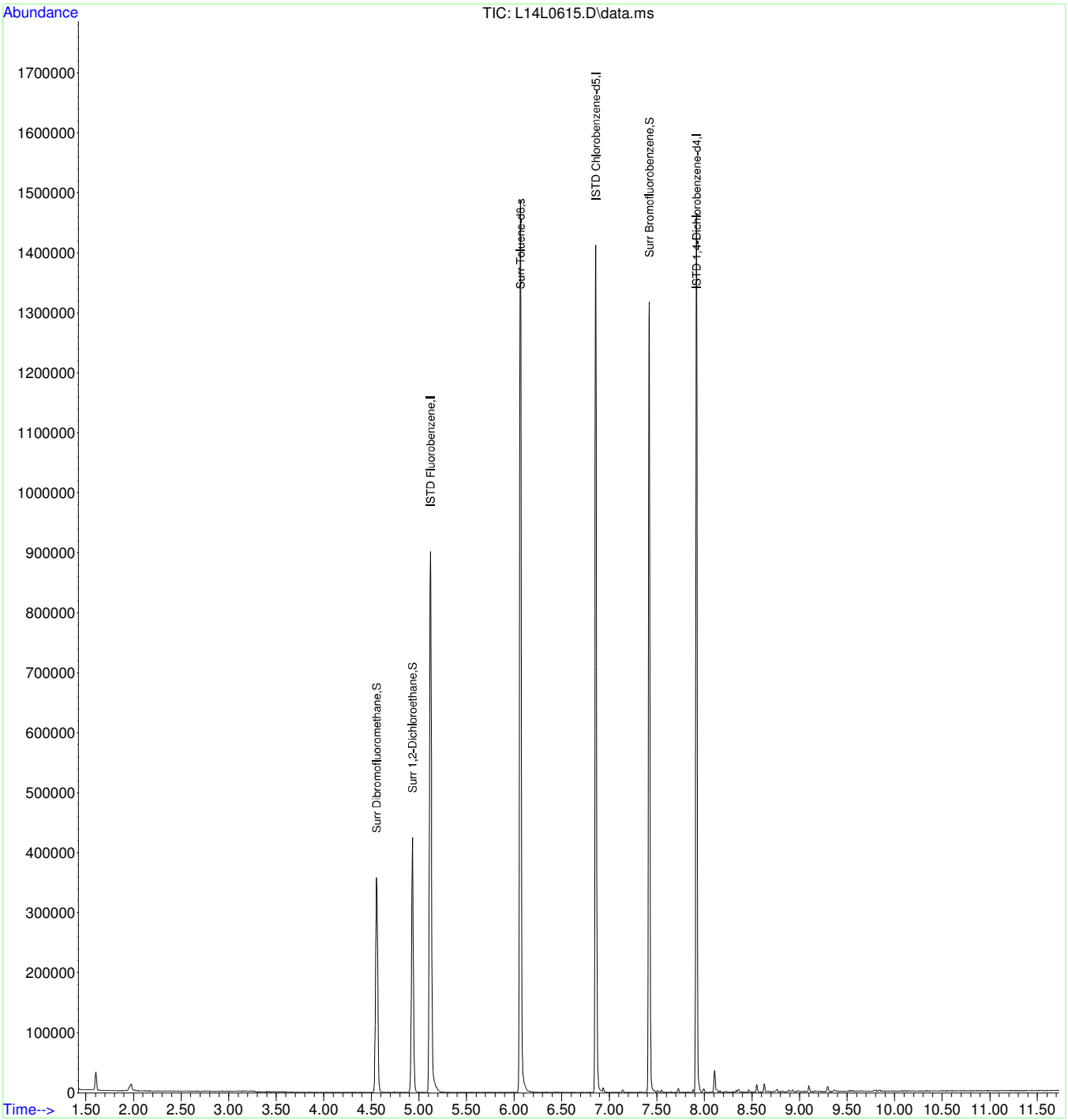
Quant Time: Apr 03 09:34:11 2013
Quant Method : C:\MSDCHEM\1\METHODS\DFULLW_17.M
Quant Title : VOA Calibration
QLast Update : Sat Mar 30 17:43:44 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\APR13-D\02APR13\
Data File : L14L0615.D
Acq On : 2 Apr 2013 8:17 pm
Operator : AAP
Sample : 1304061-005A
Misc : SAMP 5.0ML 1OF3 SB
ALS Vial : 15 Sample Multiplier: 1

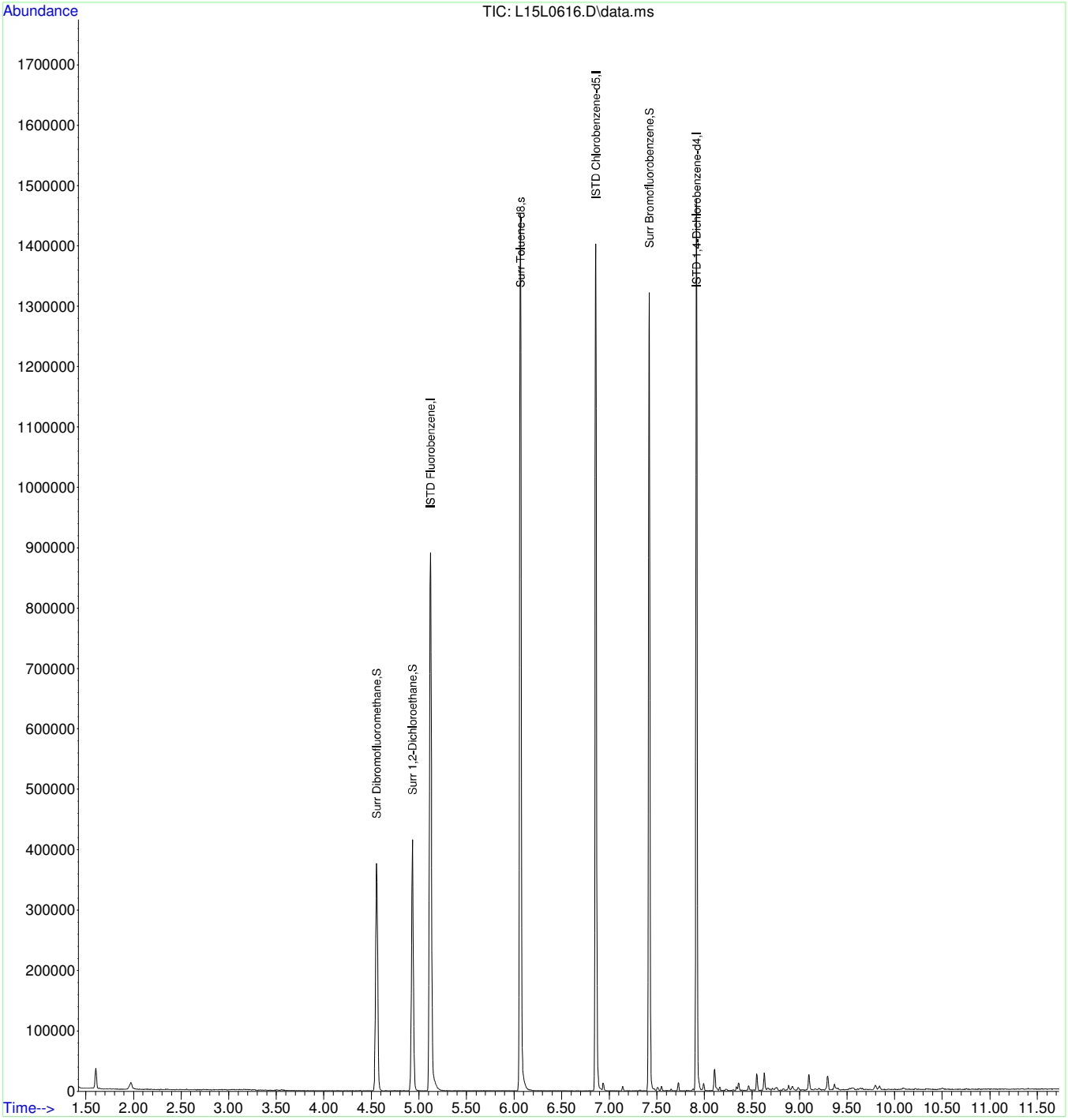
Quant Time: Apr 03 09:34:27 2013
Quant Method : C:\MSDCHEM\1\METHODS\DFULLW_17.M
Quant Title : VOA Calibration
QLast Update : Sat Mar 30 17:43:44 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\APR13-D\02APR13\
Data File : L15L0616.D
Acq On : 2 Apr 2013 8:36 pm
Operator : AAP
Sample : 1304061-006A
Misc : SAMP 5.0ML 1OF3 SB
ALS Vial : 16 Sample Multiplier: 1

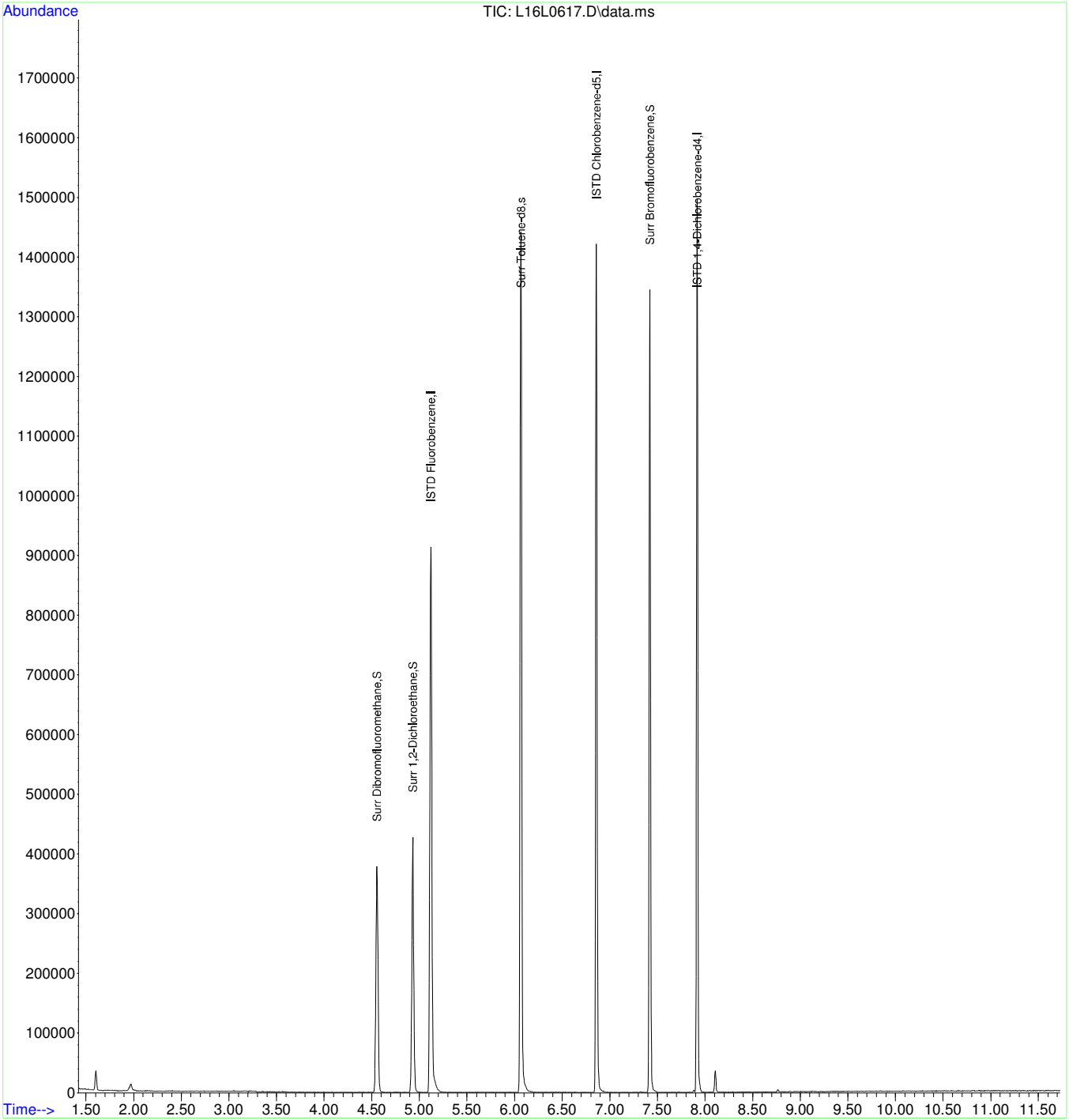
Quant Time: Apr 03 09:34:44 2013
Quant Method : C:\MSDCHEM\1\METHODS\DFULLW_17.M
Quant Title : VOA Calibration
QLast Update : Sat Mar 30 17:43:44 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\APR13-D\02APR13\
Data File : L16L0617.D
Acq On : 2 Apr 2013 8:55 pm
Operator : AAP
Sample : 1304061-007A
Misc : SAMP 5.0ML 1OF3 SB
ALS Vial : 17 Sample Multiplier: 1

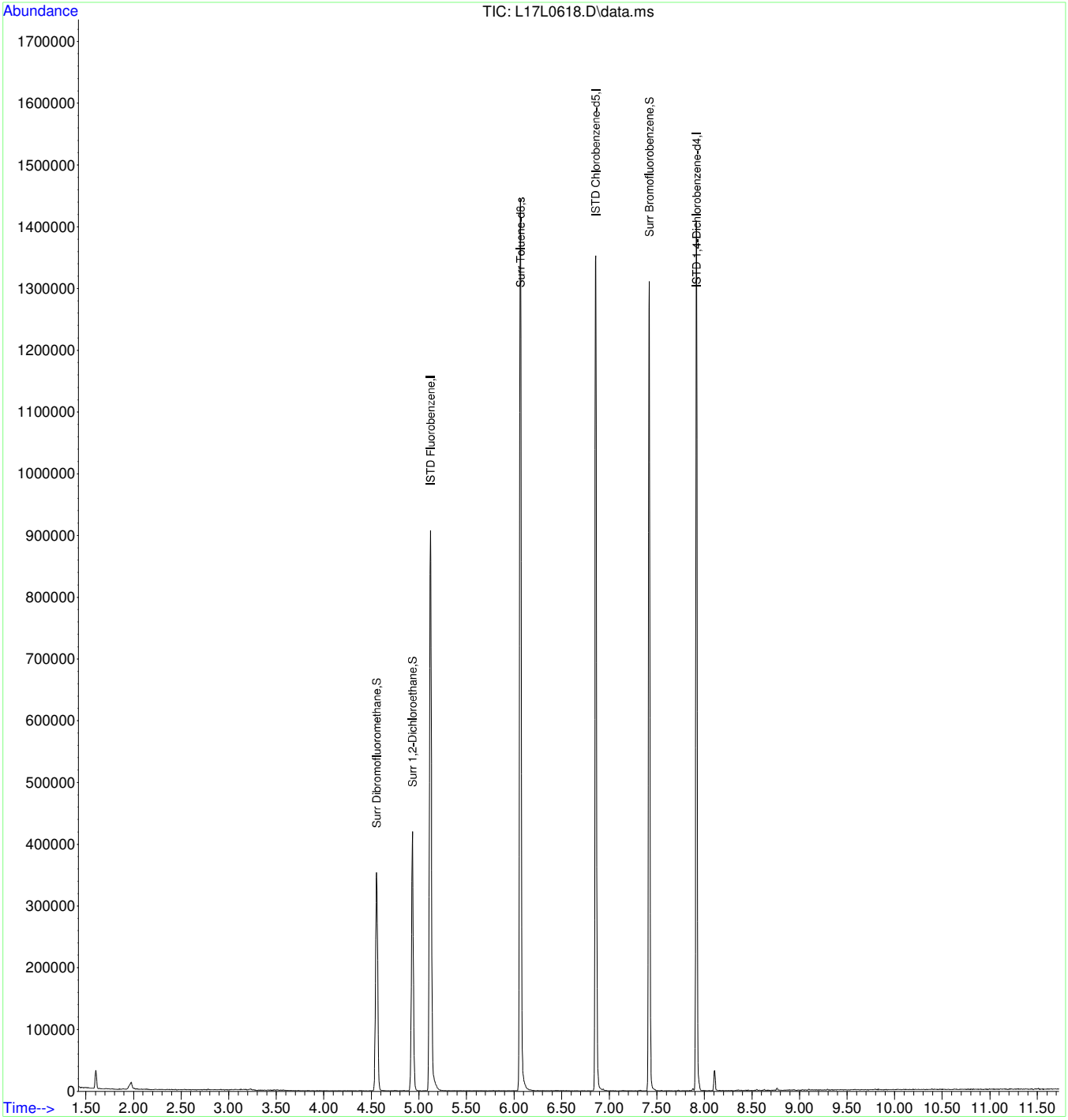
Quant Time: Apr 03 09:35:05 2013
Quant Method : C:\MSDCHEM\1\METHODS\DFULLW_17.M
Quant Title : VOA Calibration
QLast Update : Sat Mar 30 17:43:44 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\APR13-D\02APR13\
Data File : L17L0618.D
Acq On : 2 Apr 2013 9:14 pm
Operator : AAP
Sample : 1304061-008A
Misc : SAMP 5.0ML 1OF3 SB
ALS Vial : 18 Sample Multiplier: 1

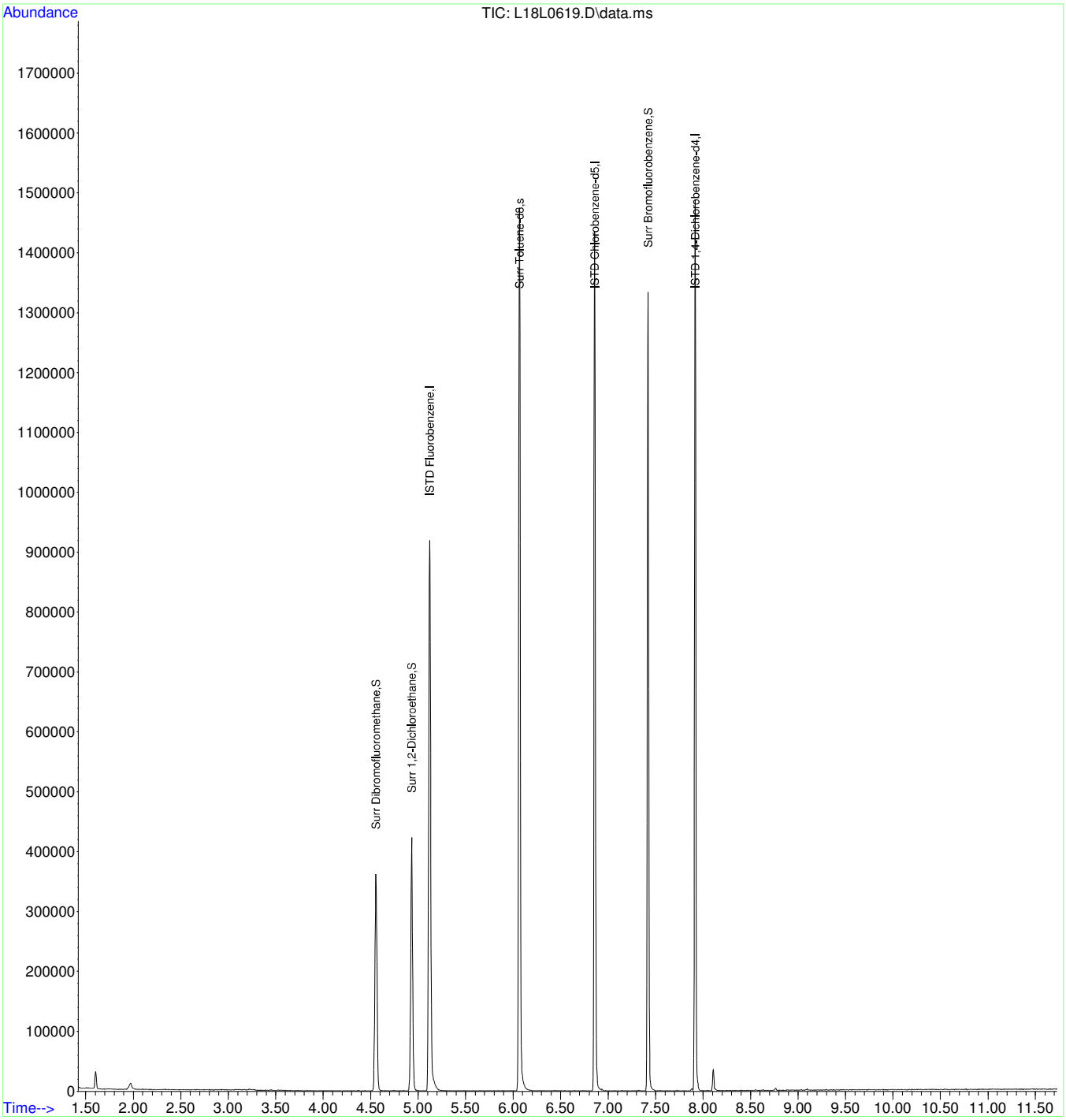
Quant Time: Apr 03 09:35:21 2013
Quant Method : C:\MSDCHEM\1\METHODS\DFULLW_17.M
Quant Title : VOA Calibration
QLast Update : Sat Mar 30 17:43:44 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\APR13-D\02APR13\
Data File : L18L0619.D
Acq On : 2 Apr 2013 9:33 pm
Operator : AAP
Sample : 1304061-009A
Misc : SAMP 5.0ML 1OF3 SB
ALS Vial : 19 Sample Multiplier: 1

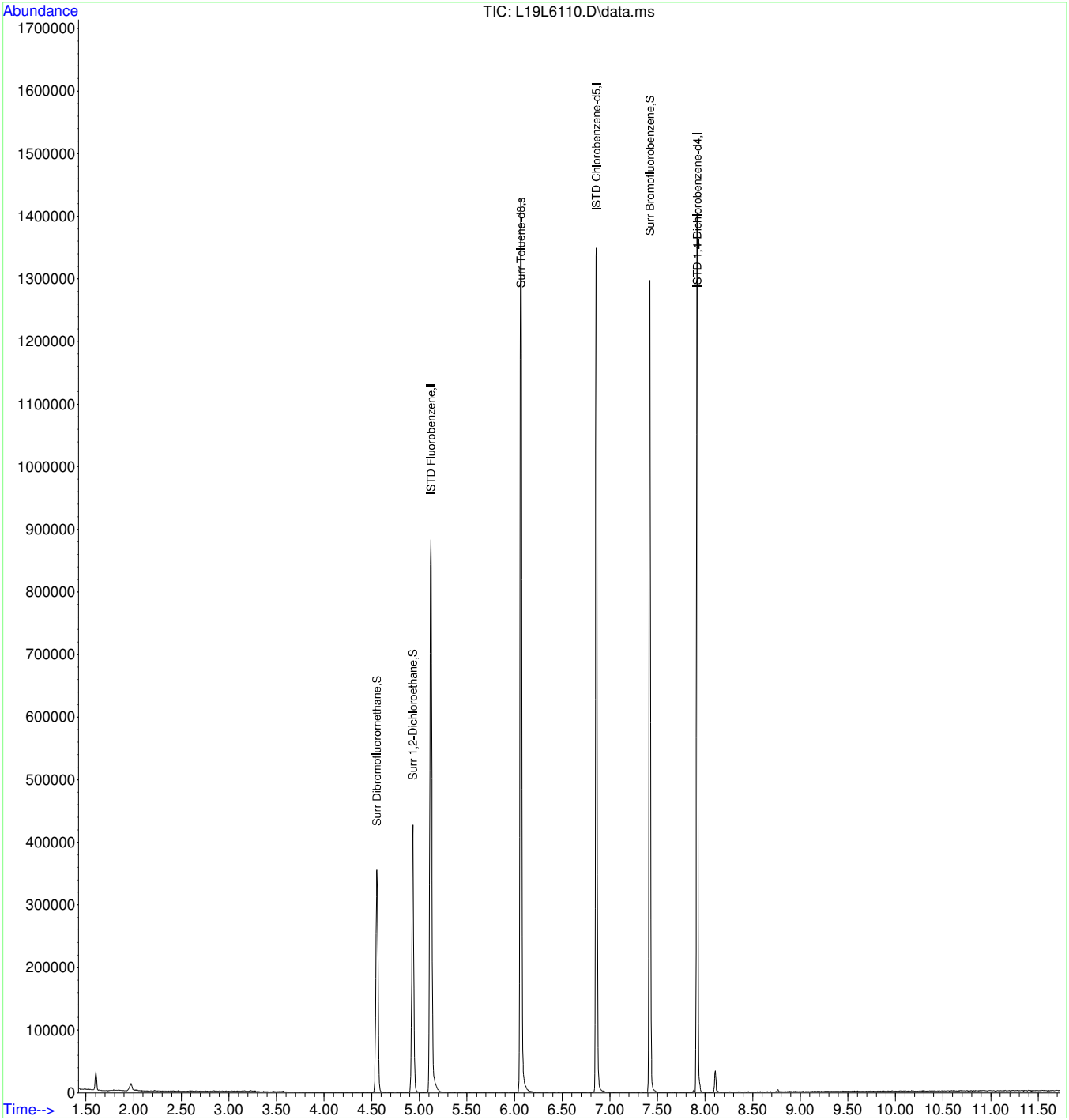
Quant Time: Apr 03 09:35:40 2013
Quant Method : C:\MSDCHEM\1\METHODS\DFULLW_17.M
Quant Title : VOA Calibration
QLast Update : Sat Mar 30 17:43:44 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\APR13-D\02APR13\
Data File : L19L6110.D
Acq On : 2 Apr 2013 9:52 pm
Operator : AAP
Sample : 1304061-010A
Misc : SAMP 5.0ML 1OF3 SB
ALS Vial : 20 Sample Multiplier: 1

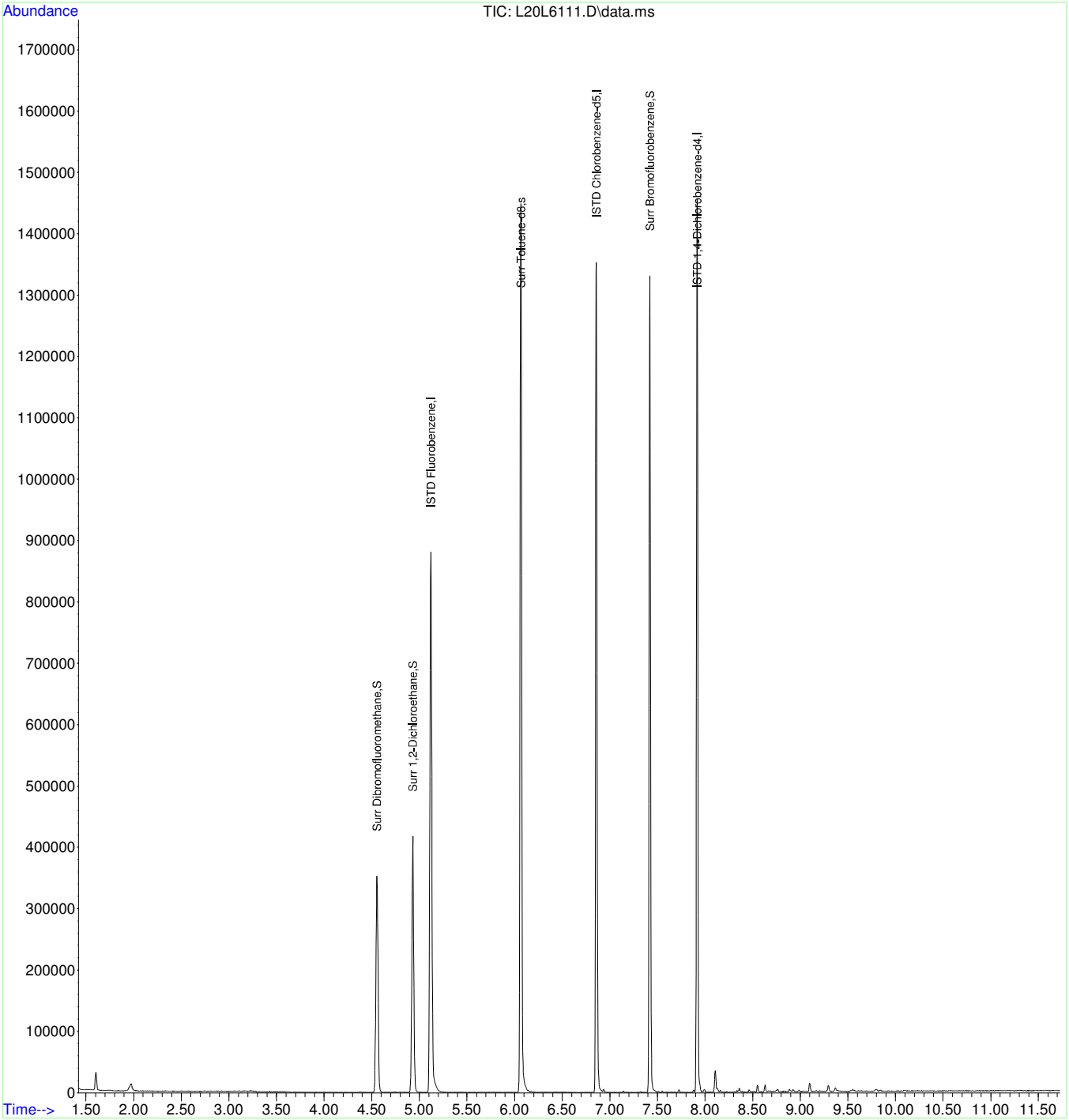
Quant Time: Apr 03 09:35:54 2013
Quant Method : C:\MSDCHEM\1\METHODS\DFULLW_17.M
Quant Title : VOA Calibration
QLast Update : Sat Mar 30 17:43:44 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\APR13-D\02APR13\
Data File : L20L6111.D
Acq On : 2 Apr 2013 10:11 pm
Operator : AAP
Sample : 1304061-011A
Misc : SAMP 5.0ML 1OF3 SB
ALS Vial : 21 Sample Multiplier: 1

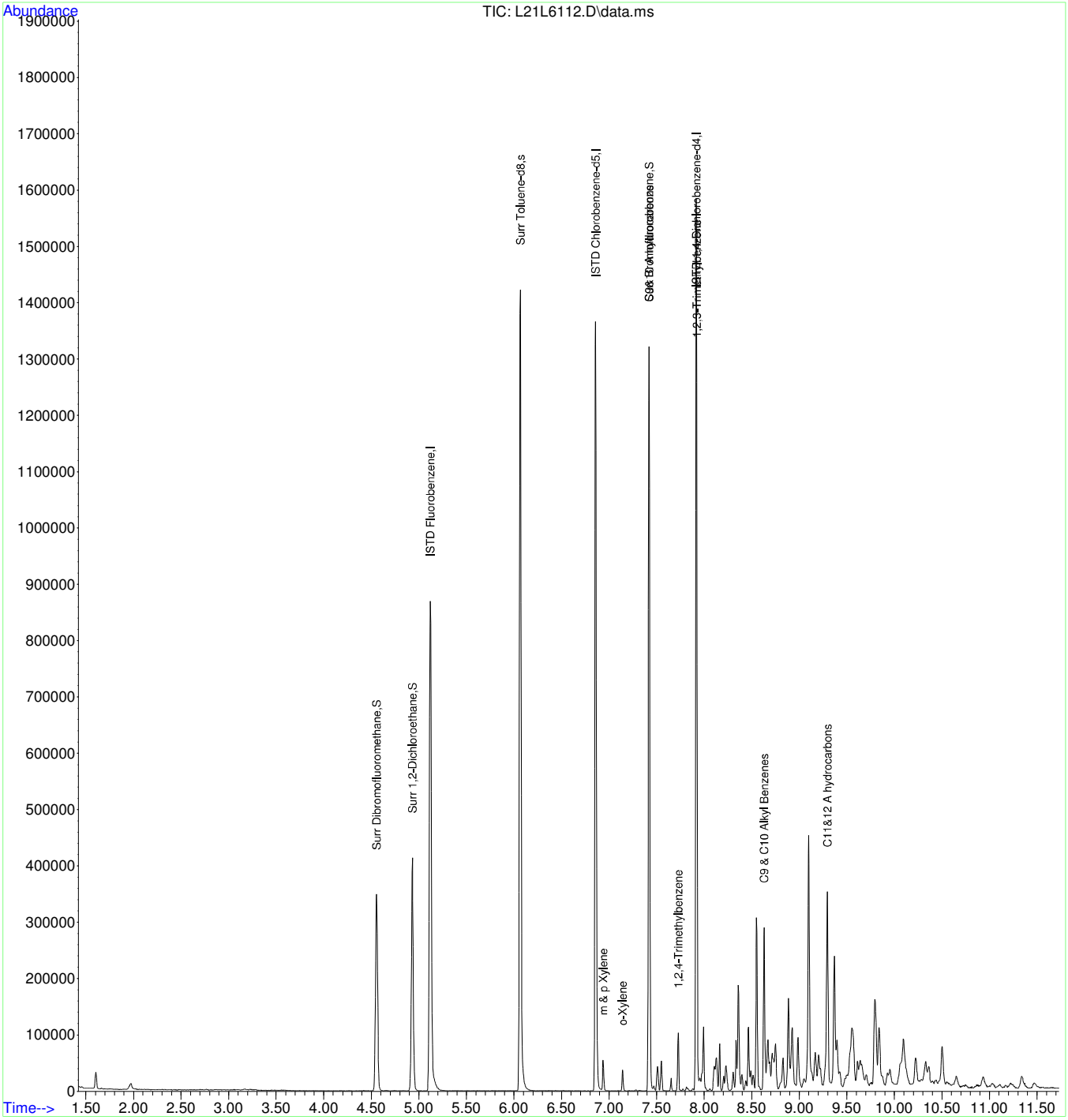
Quant Time: Apr 03 09:36:07 2013
Quant Method : C:\MSDCHEM\1\METHODS\DFULLW_17.M
Quant Title : VOA Calibration
QLast Update : Sat Mar 30 17:43:44 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\APR13-D\02APR13\
Data File : L21L6112.D
Acq On : 2 Apr 2013 10:30 pm
Operator : AAP
Sample : 1304061-012A
Misc : SAMP 5.0ML 1OF3 SB
ALS Vial : 22 Sample Multiplier: 1

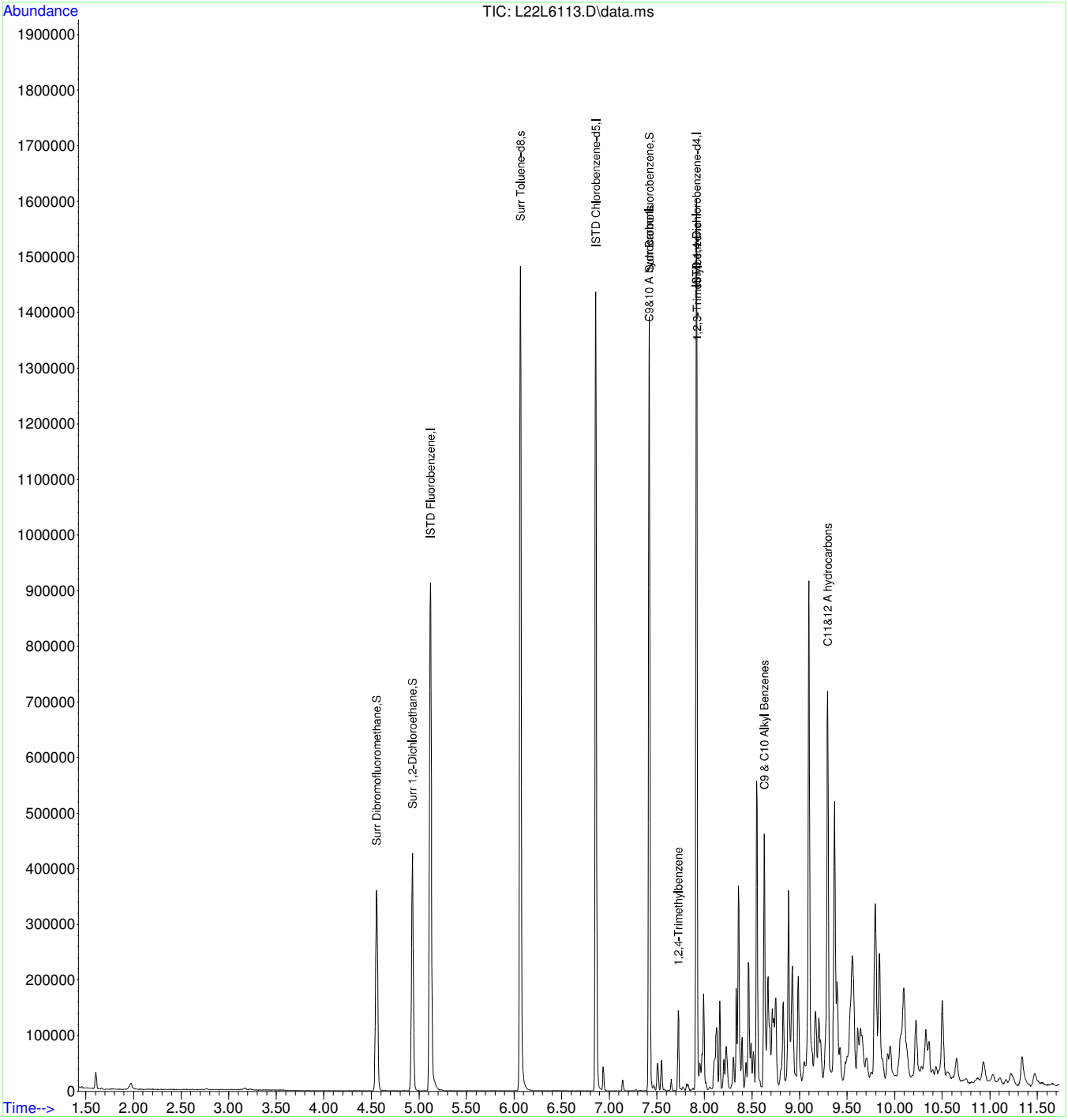
Quant Time: Apr 03 09:36:40 2013
Quant Method : C:\MSDCHEM\1\METHODS\DFULLW_17.M
Quant Title : VOA Calibration
QLast Update : Sat Mar 30 17:43:44 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\APR13-D\02APR13\
Data File : L22L6113.D
Acq On : 2 Apr 2013 10:49 pm
Operator : AAP
Sample : 1304061-013A
Misc : SAMP 5.0ML 1OF3 SB
ALS Vial : 23 Sample Multiplier: 1

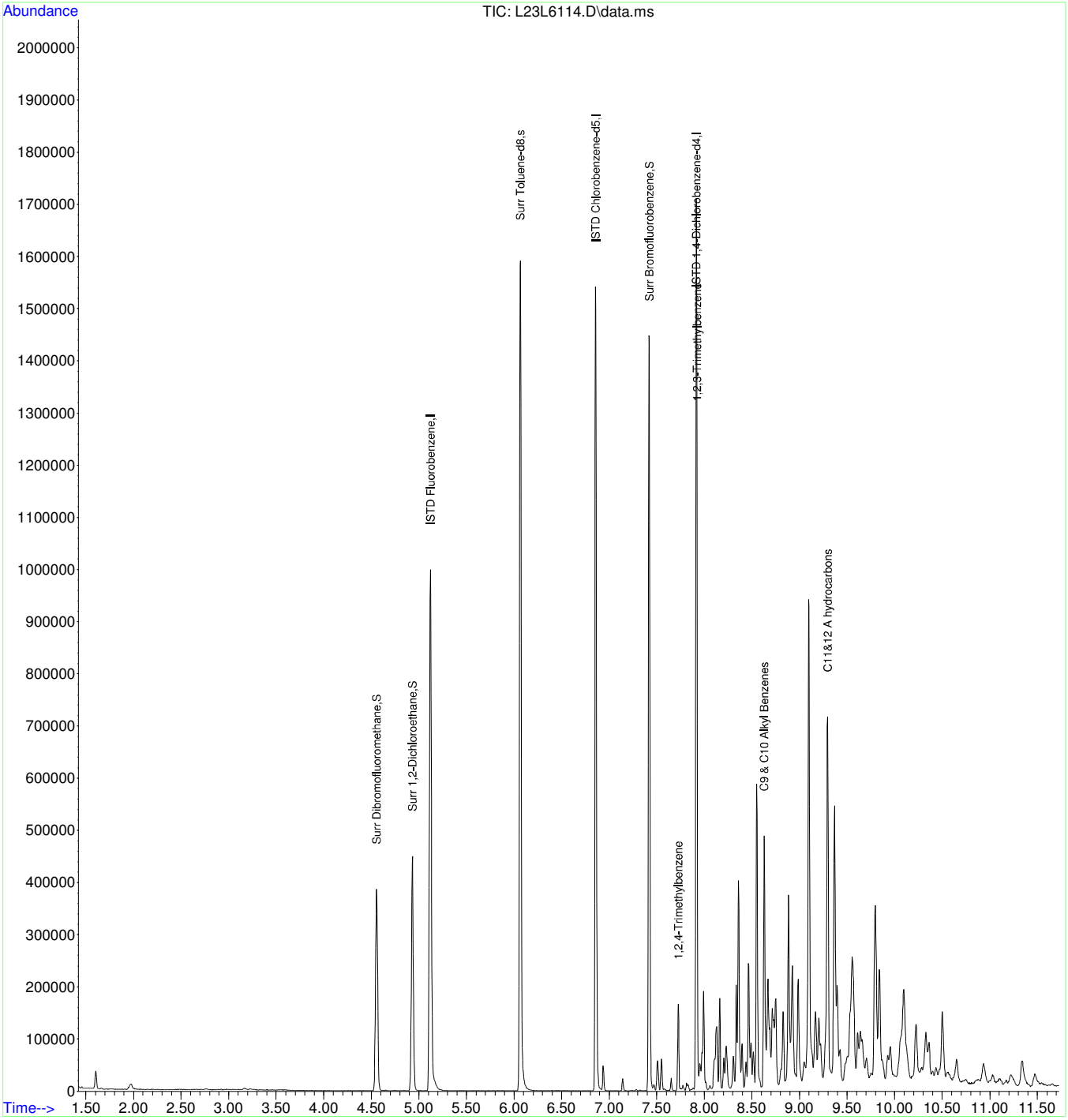
Quant Time: Apr 03 09:37:30 2013
Quant Method : C:\MSDCHEM\1\METHODS\DFULLW_17.M
Quant Title : VOA Calibration
QLast Update : Sat Mar 30 17:43:44 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\APR13-D\02APR13\
Data File : L23L6114.D
Acq On : 2 Apr 2013 11:08 pm
Operator : AAP
Sample : 1304061-014A
Misc : SAMP 5.0ML 1OF3 SB
ALS Vial : 24 Sample Multiplier: 1

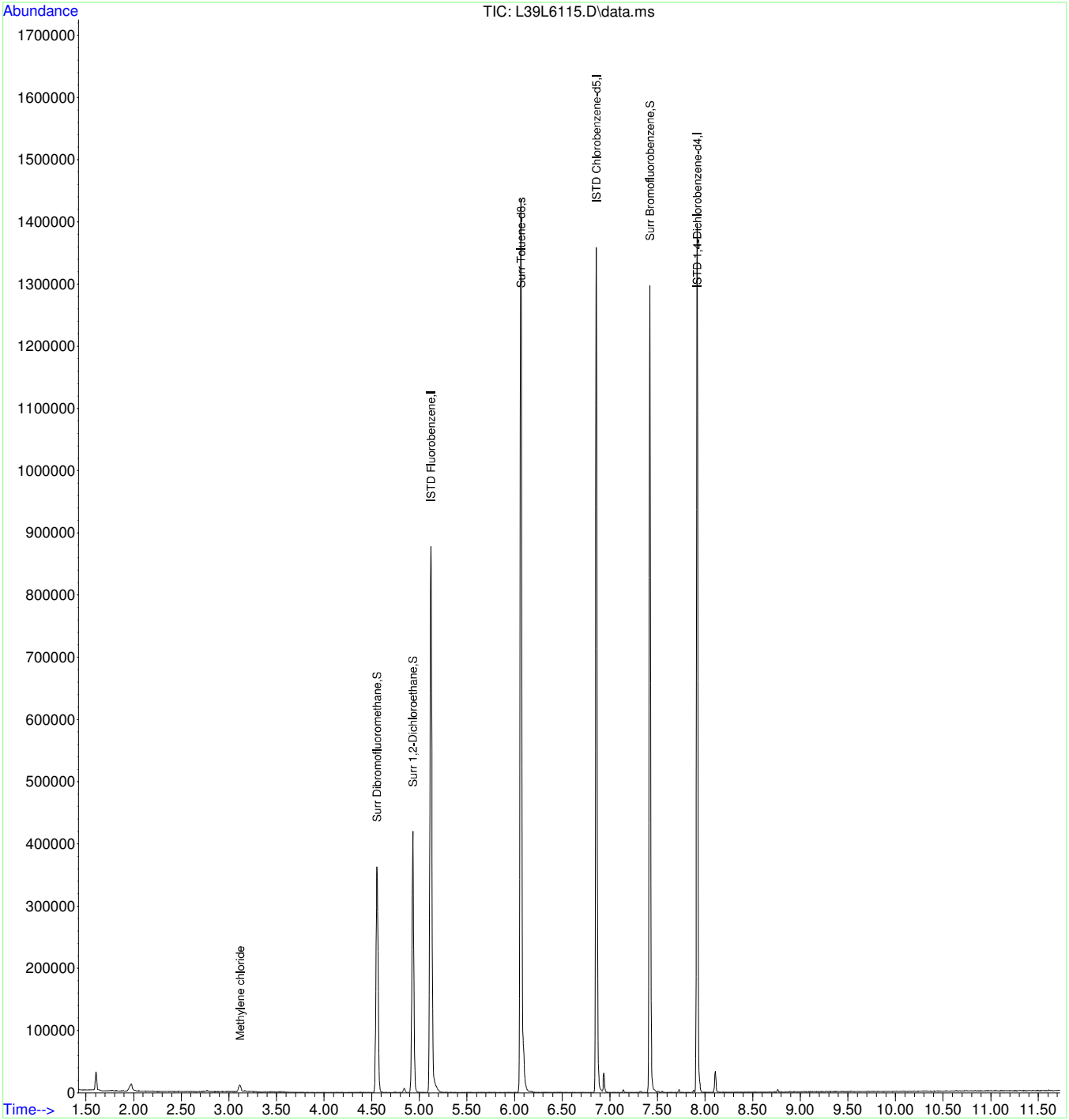
Quant Time: Apr 03 09:38:06 2013
Quant Method : C:\MSDCHEM\1\METHODS\DFULLW_17.M
Quant Title : VOA Calibration
QLast Update : Sat Mar 30 17:43:44 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\APR13-D\03APR13\
Data File : L39L6115.D
Acq On : 3 Apr 2013 10:33 am
Operator : AAP
Sample : 1304061-015A
Misc : SAMP 5.0ML 2OF3 SB
ALS Vial : 12 Sample Multiplier: 1

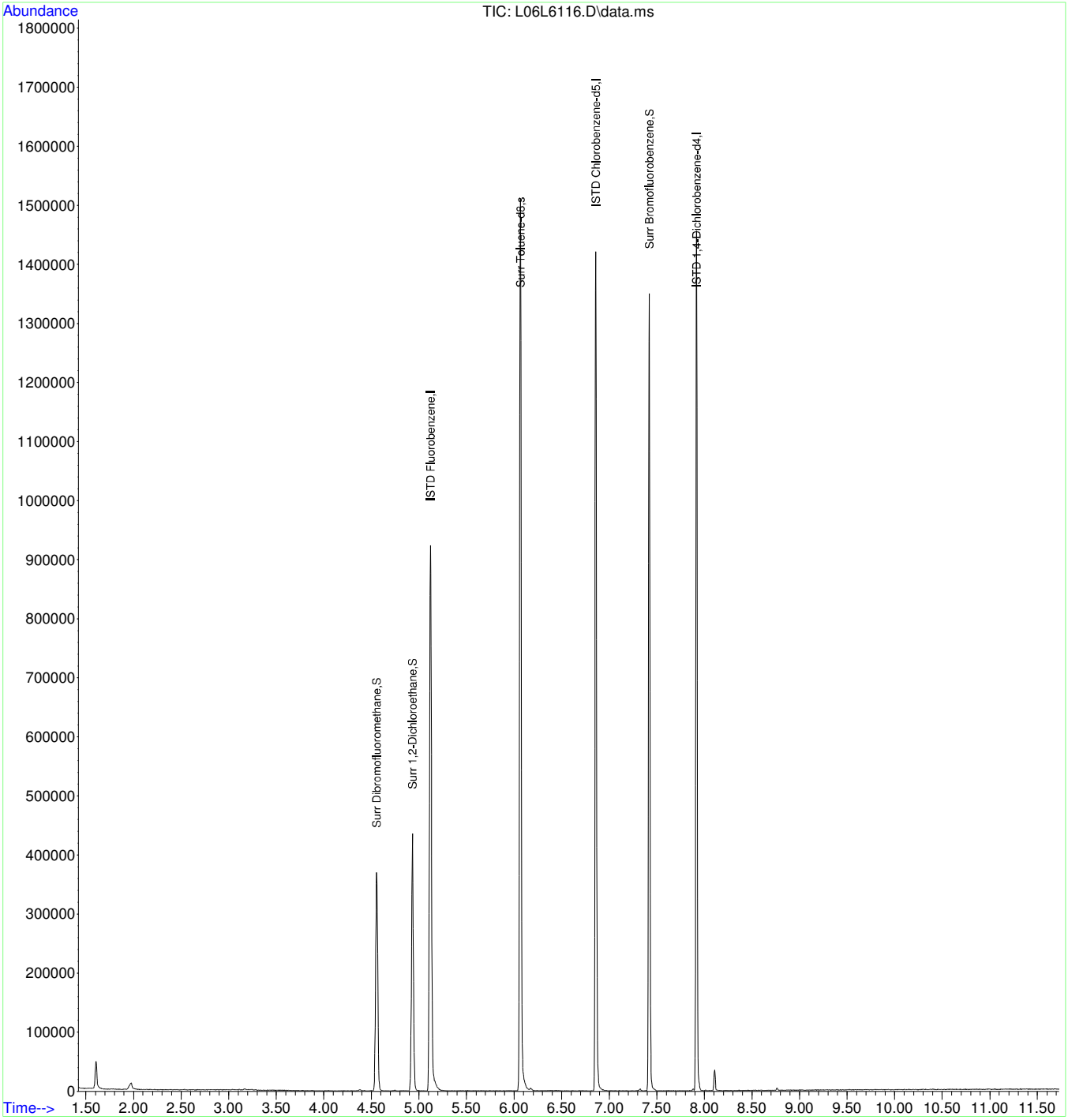
Quant Time: Apr 03 11:33:05 2013
Quant Method : C:\MSDCHEM\1\METHODS\DFULLW_17.M
Quant Title : VOA Calibration
QLast Update : Sat Mar 30 17:43:44 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\APR13-D\02APR13\
Data File : L06L6116.D
Acq On : 2 Apr 2013 5:45 pm
Operator : AAP
Sample : 1304061-016A
Misc : SAMP 5.0ML 1OF3 SB
ALS Vial : 7 Sample Multiplier: 1

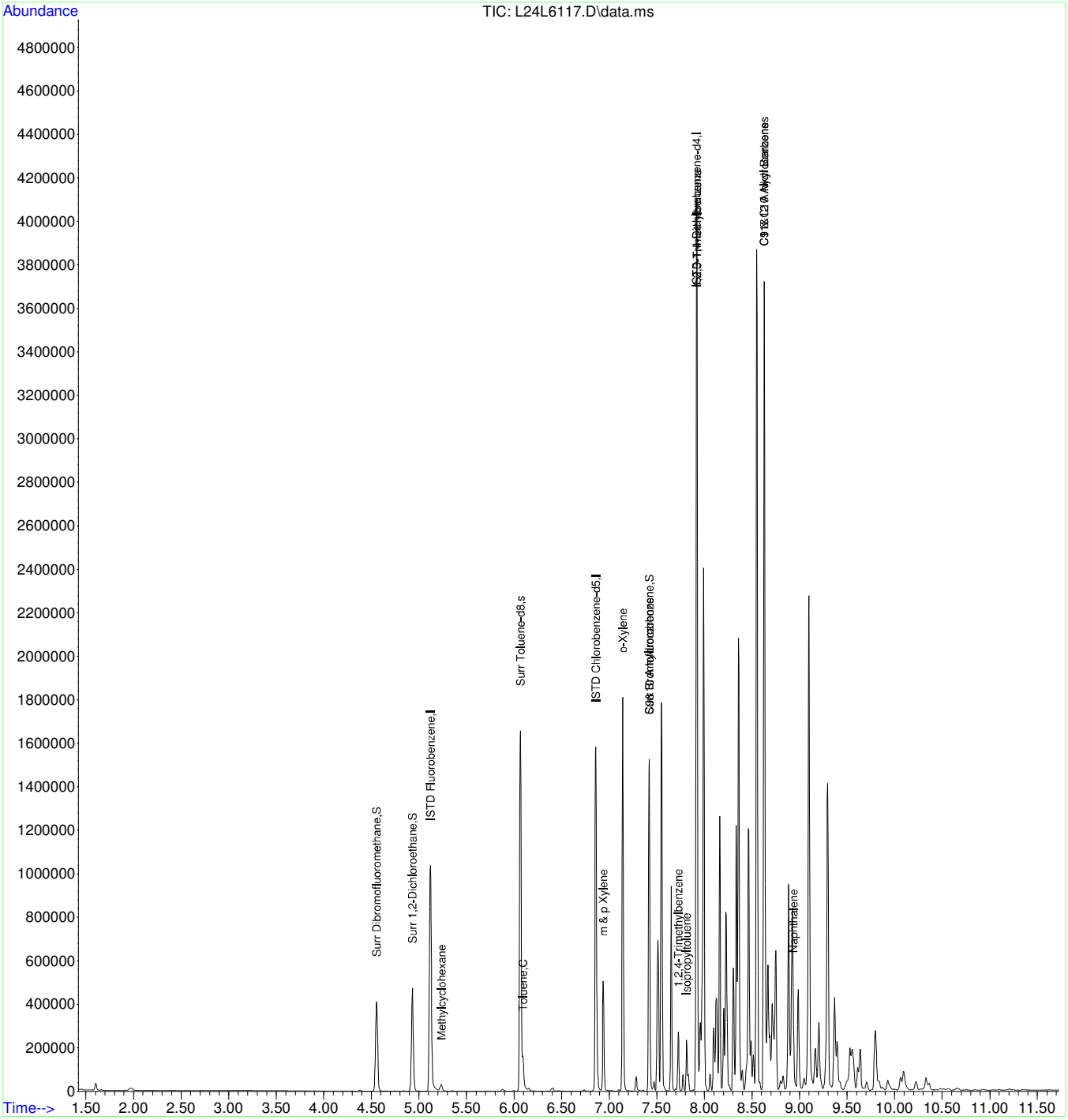
Quant Time: Apr 03 09:32:06 2013
Quant Method : C:\MSDCHEM\1\METHODS\DFULLW_17.M
Quant Title : VOA Calibration
QLast Update : Sat Mar 30 17:43:44 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\APR13-D\02APR13\
Data File : L24L6117.D
Acq On : 2 Apr 2013 11:27 pm
Operator : AAP
Sample : 1304061-017A
Misc : SAMP 5.0ML 1OF3 SB
ALS Vial : 25 Sample Multiplier: 1

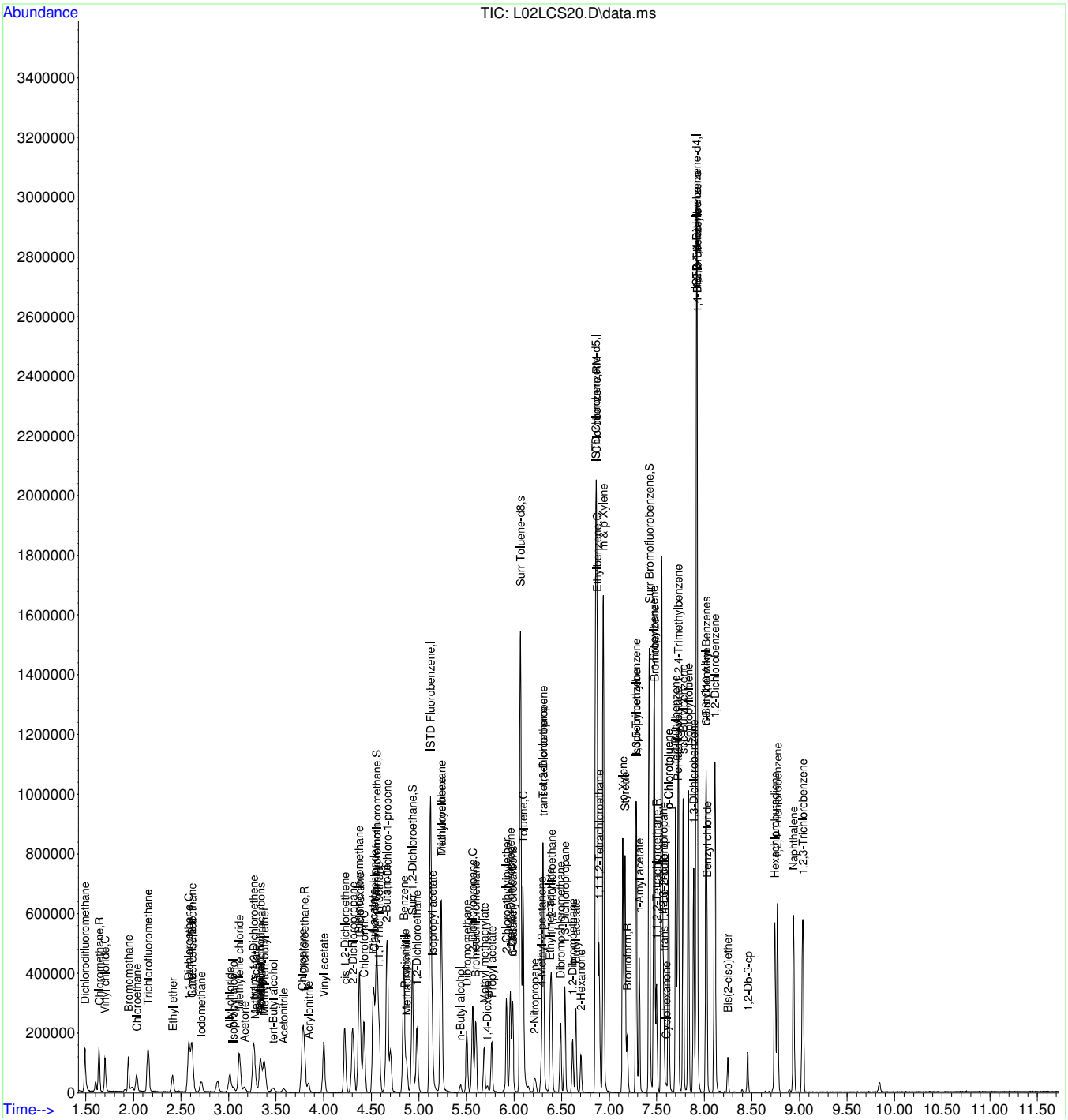
Quant Time: Apr 03 09:39:41 2013
Quant Method : C:\MSDCHEM\1\METHODS\DFULLW_17.M
Quant Title : VOA Calibration
QLast Update : Sat Mar 30 17:43:44 2013
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\APR13-D\02APR13\
Data File : L02LCS20.D
Acq On : 2 Apr 2013 4:29 pm
Operator : AAP
Sample : LCS VOC 040213B
Misc : LCS SEE COVERSHEET FOR ID AND AMOUNT SB
ALS Vial : 3 Sample Multiplier: 1

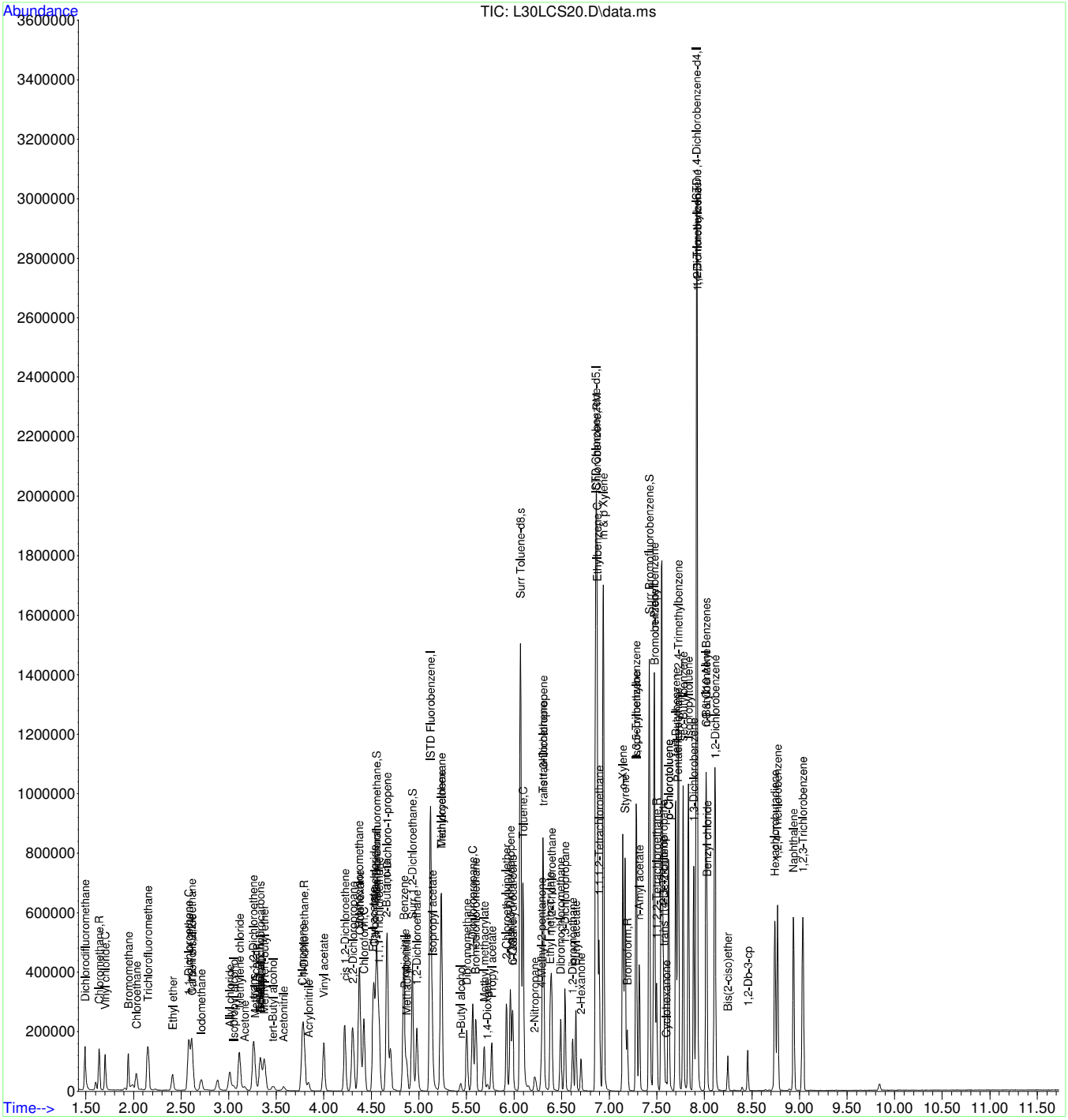
Quant Time: Apr 02 16:41:36 2013
Quant Method : C:\MSDCHEM\1\METHODS\DFULLW_17.M
Quant Title : VOA Calibration
QLast Update : Sat Mar 30 17:43:44 2013
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\APR13-D\03APR13\
Data File : L30LCS20.D
Acq On : 3 Apr 2013 7:42 am
Operator : AAP
Sample : LCS VOC 040313A
Misc : LCS SEE COVERSHEET FOR ID AND AMOUNT JO
ALS Vial : 3 Sample Multiplier: 1

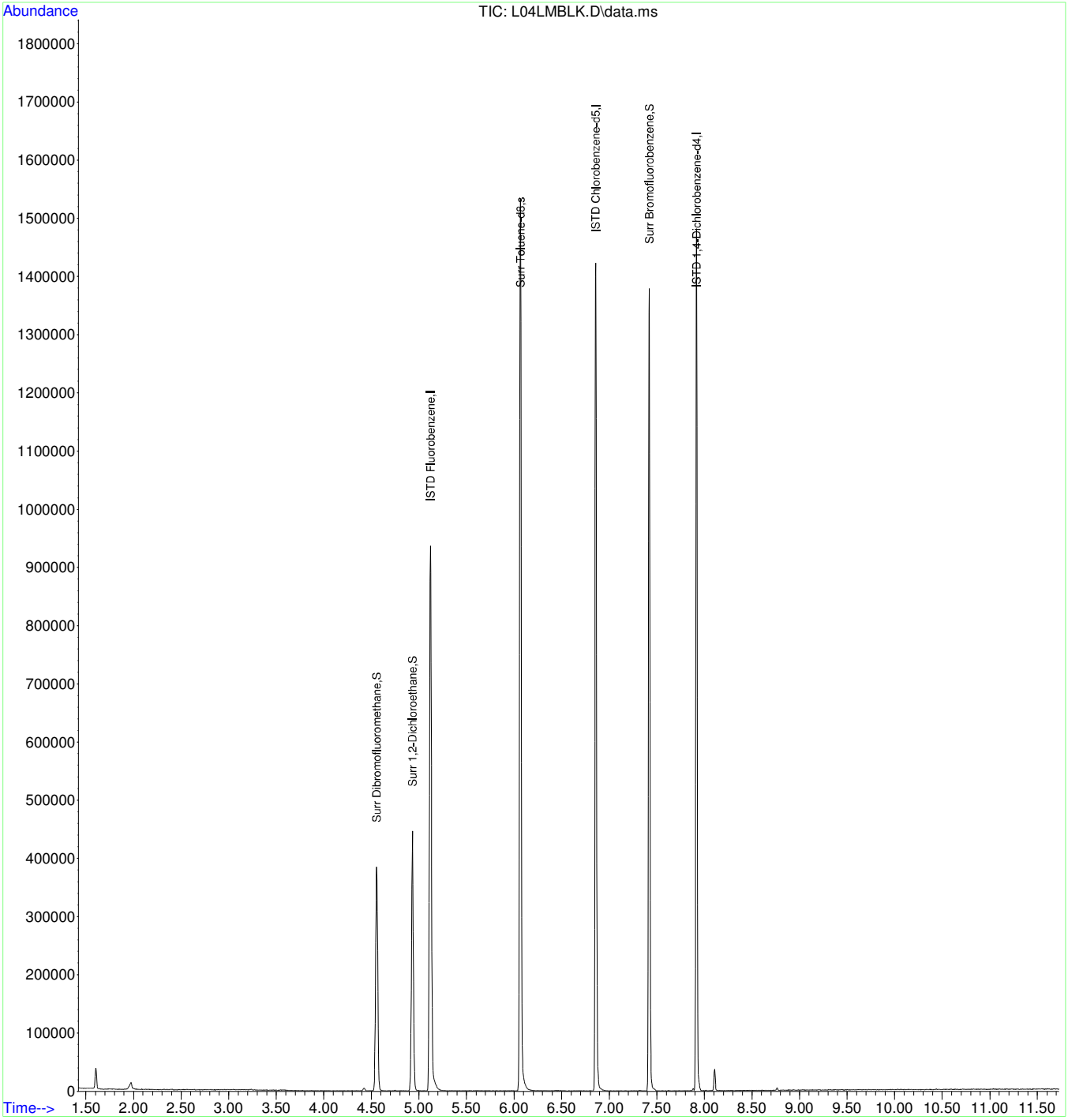
Quant Time: Apr 03 07:54:15 2013
Quant Method : C:\MSDCHEM\1\METHODS\DFULLW_17.M
Quant Title : VOA Calibration
QLast Update : Sat Mar 30 17:43:44 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

```
Data Path : C:\msdchem\1\data\APR13-D\02APR13\
Data File : L04LMBLK.D
Acq On    :  2 Apr 2013   5:07 pm
Operator  : AAP
Sample    : MB VOC 040213B
Misc      : MBLK       5.0ML    SB
ALS Vial  : 5   Sample Multiplier: 1

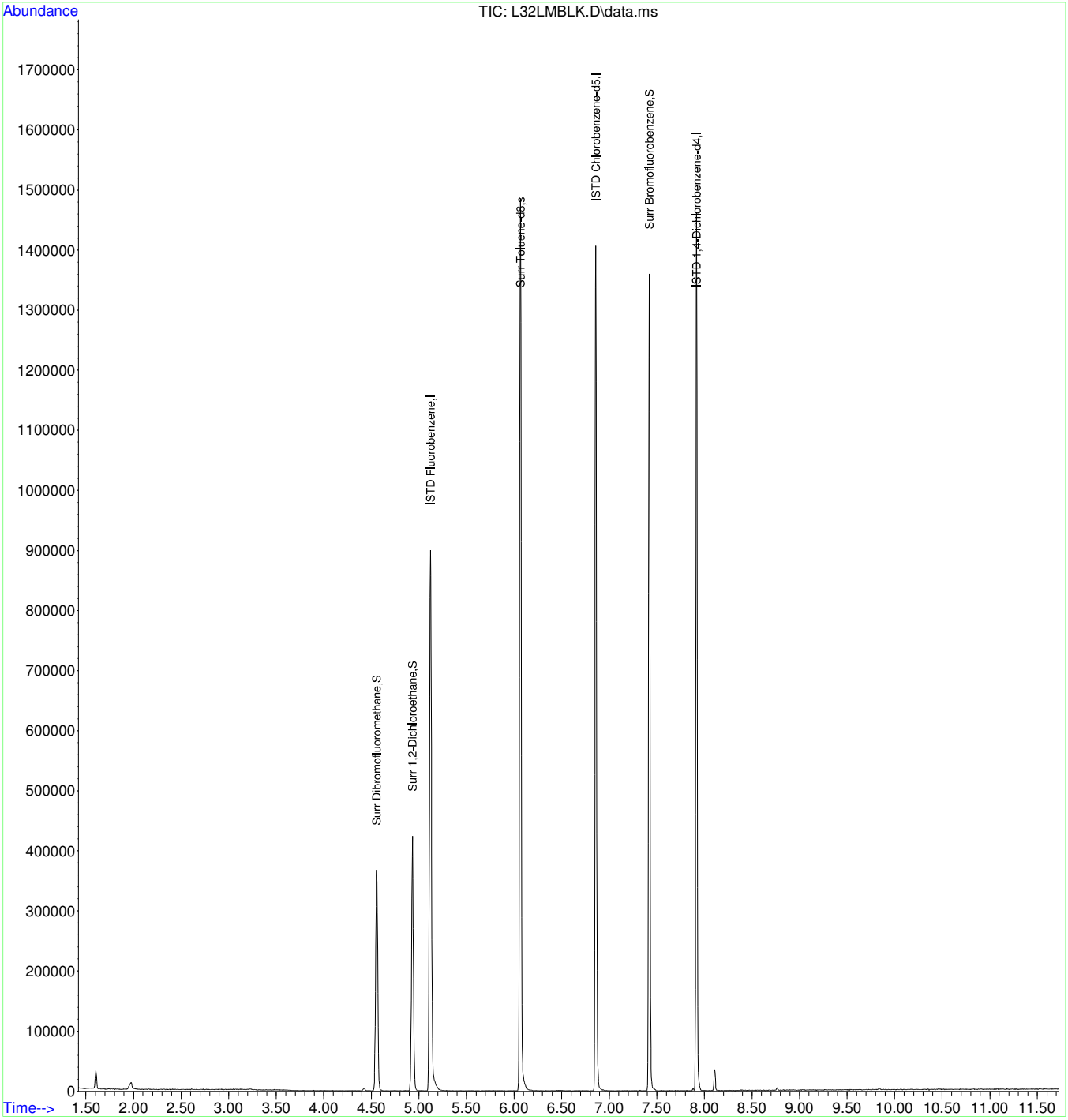
Quant Time: Apr 03 09:30:41 2013
Quant Method : C:\MSDCHEM\1\METHODS\DFULLW_17.M
Quant Title  : VOA  Calibration
QLast Update : Sat Mar 30 17:43:44 2013
Response via : Initial Calibration
```



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\APR13-D\03APR13\
Data File : L32LMBLK.D
Acq On : 3 Apr 2013 8:20 am
Operator : AAP
Sample : MB VOC 040313A
Misc : MBLK 5.0ML JO
ALS Vial : 5 Sample Multiplier: 1

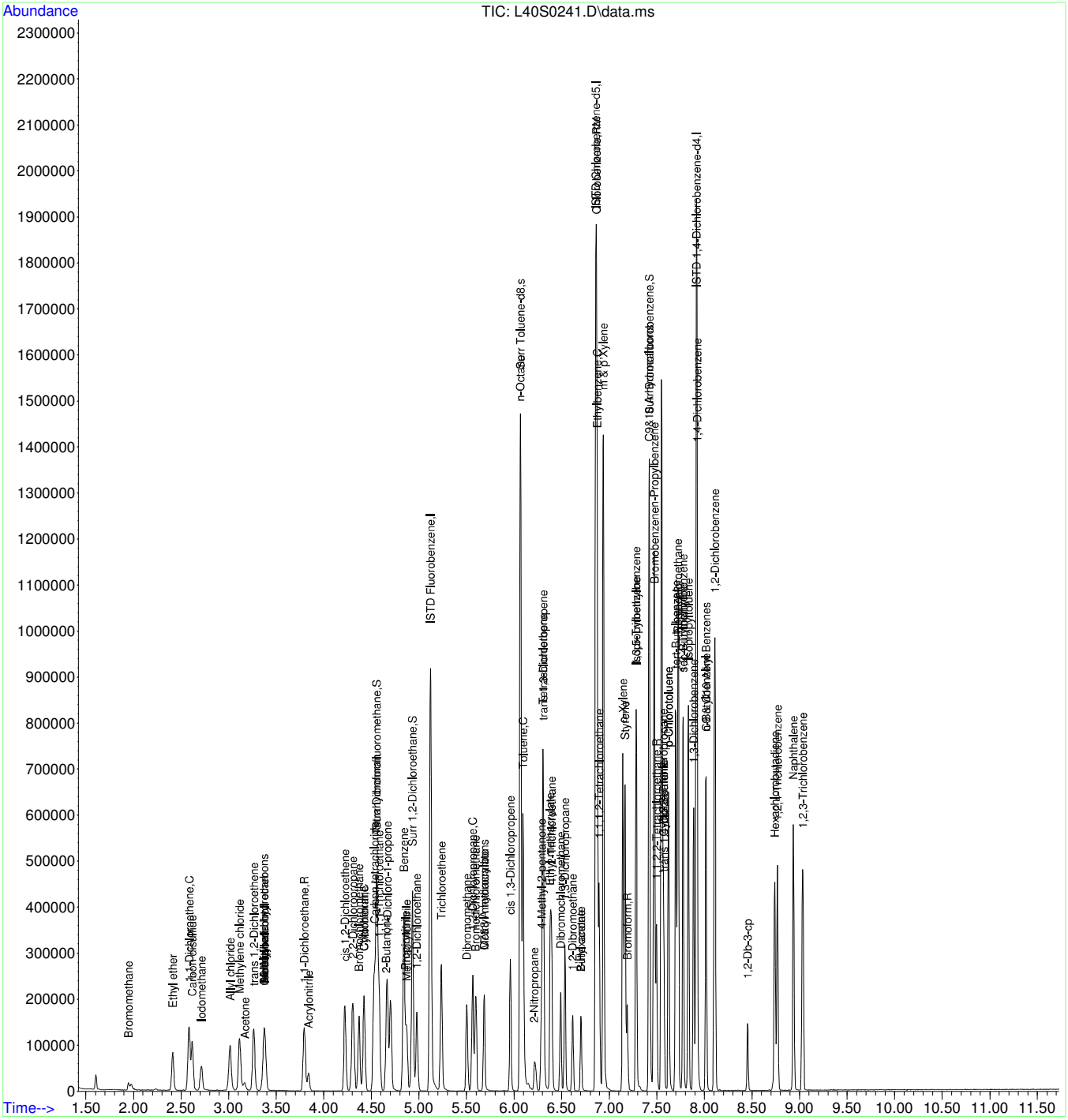
Quant Time: Apr 03 11:29:22 2013
Quant Method : C:\MSDCHEM\1\METHODS\DFULLW_17.M
Quant Title : VOA Calibration
QLast Update : Sat Mar 30 17:43:44 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

```
Data Path : C:\msdchem\1\data\APR13-D\03APR13\
Data File : L40S0241.D
Acq On    :  3 Apr 2013  10:52 am
Operator  : AAP
Sample    : 1304024-001AMS
Misc      : MS           5.0ML     2OF3   SB
ALS Vial  : 13   Sample Multiplier: 1

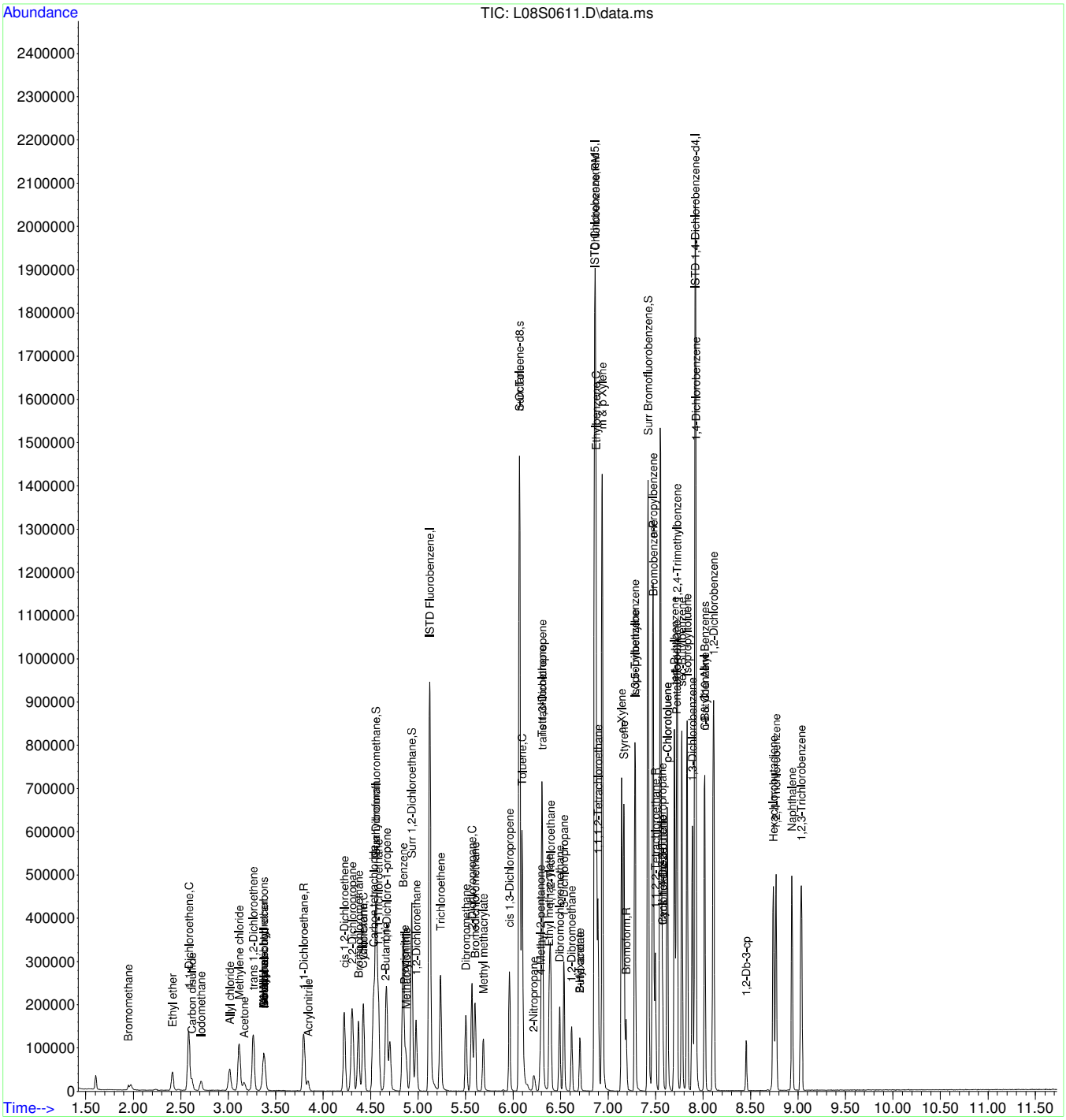
Quant Time: Apr 03 11:04:07 2013
Quant Method : C:\MSDCHEM\1\METHODS\DFULLW_17.M
Quant Title  : VOA  Calibration
QLast Update : Sat Mar 30 17:43:44 2013
Response via : Initial Calibration
```



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\APR13-D\02APR13\
Data File : L08S0611.D
Acq On : 2 Apr 2013 6:23 pm
Operator : AAP
Sample : 1304061-001AMS
Misc : MS 5.0ML 1OF3 SB
ALS Vial : 9 Sample Multiplier: 1

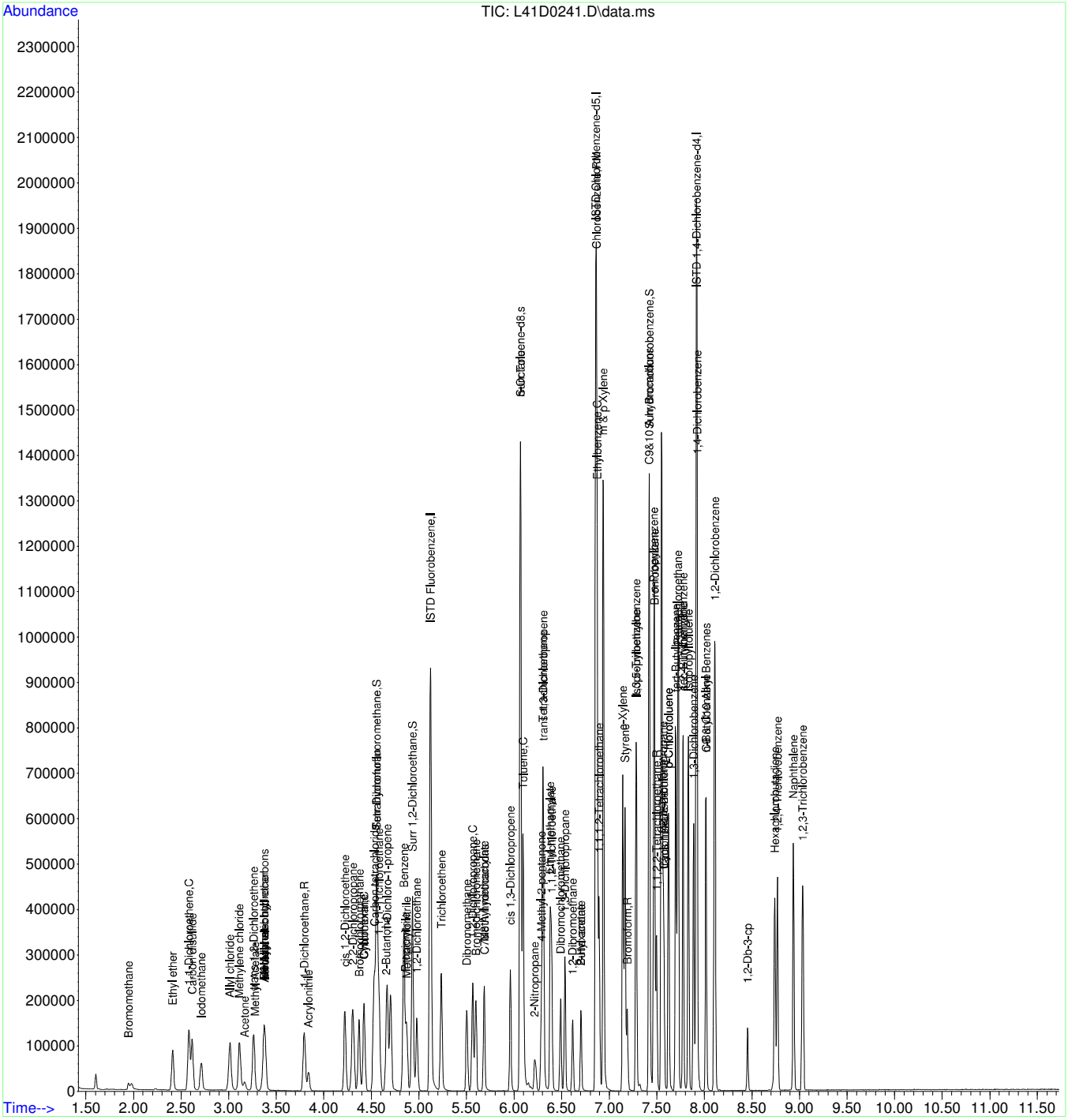
Quant Time: Apr 02 18:35:21 2013
Quant Method : C:\MSDCHEM\1\METHODS\DFULLW_17.M
Quant Title : VOA Calibration
QLast Update : Sat Mar 30 17:43:44 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

```
Data Path : C:\msdchem\1\data\APR13-D\03APR13\
Data File : L41D0241.D
Acq On    :  3 Apr 2013  11:11 am
Operator  : AAP
Sample    : 1304024-001AMSD
Misc      : MSD         5.0ML     3OF3   SB
ALS Vial  : 14   Sample Multiplier: 1

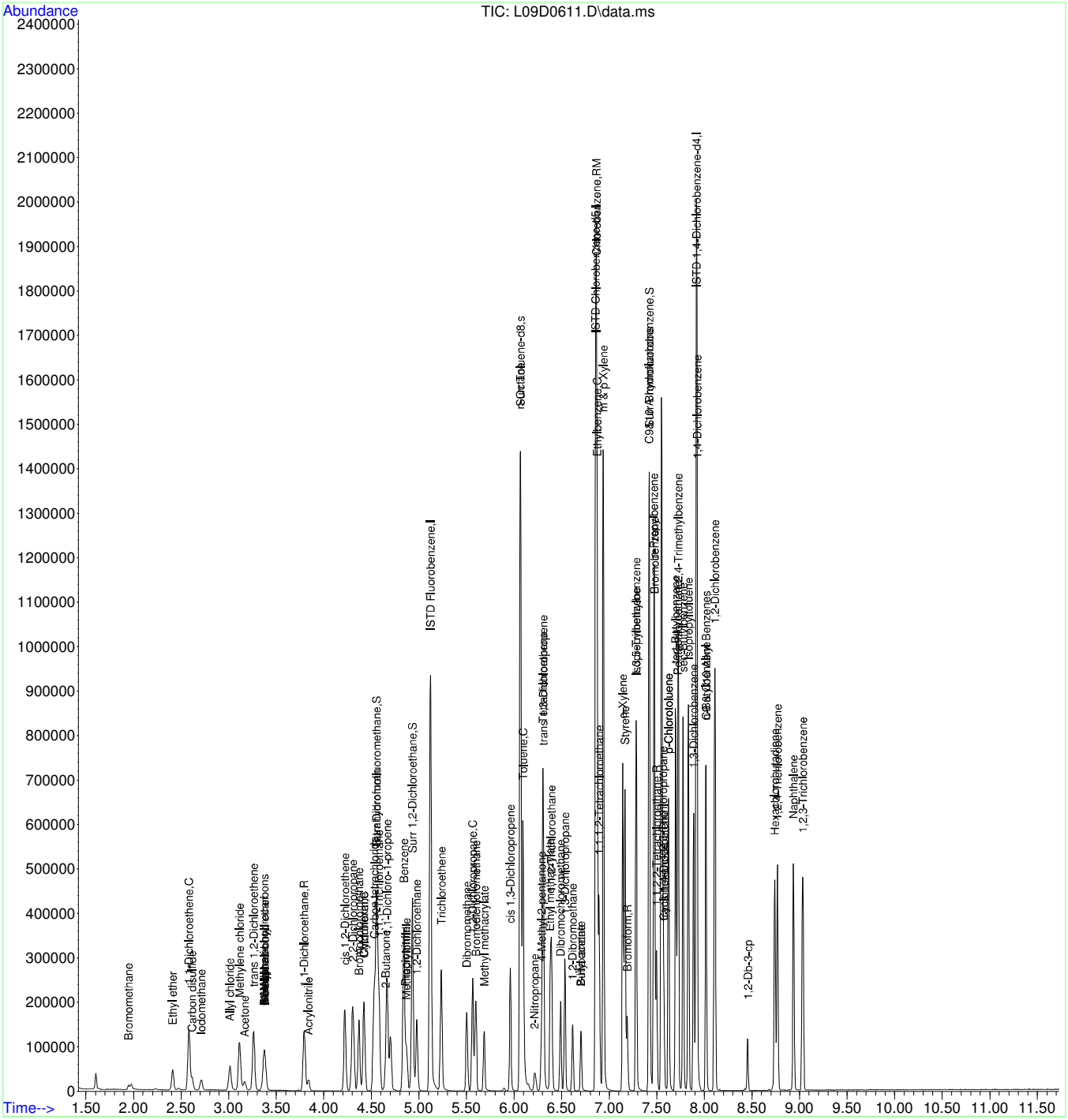
Quant Time: Apr 03 11:23:02 2013
Quant Method : C:\MSDCHEM\1\METHODS\DFULLW_17.M
Quant Title  : VOA  Calibration
QLast Update : Sat Mar 30 17:43:44 2013
Response via : Initial Calibration
```



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\APR13-D\02APR13\
Data File : L09D0611.D
Acq On : 2 Apr 2013 6:42 pm
Operator : AAP
Sample : 1304061-001AMSD
Misc : MSD 5.0ML 1OF3 SB
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Apr 02 18:54:19 2013
Quant Method : C:\MSDCHEM\1\METHODS\DFULLW_17.M
Quant Title : VOA Calibration
QLast Update : Sat Mar 30 17:43:44 2013
Response via : Initial Calibration



American West Analytical Laboratories

RUSH

D

WORK ORDER Summary

Work Order: **1304061**

Due Date: 4/16/2013

Client: Utah Division of Water Quality

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	
1304061-001A	**East of I-15 / 4920392**	4/2/2013 0830h	4/2/2013 1400h	**8260-W**	Aqueous	☑	Purge	3
				Test Group: 8260-W-Full; # of Analytes: 103 / # of Surr: 4				
1304061-001B				**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:				
1304061-001C				**3510-TPH-PR**		☐	Walkin-TPH (Liters)	
				8015-W-TPH(1L)		☑	Walkin-TPH (Liters)	
				Test Group: 8015-W-TPH1L; # of Analytes: 1 / # of Surr: 1				
1304061-002A	**S. Marina / 4920495**	4/2/2013 0900h	4/2/2013 1400h	**8260-W**	Aqueous	☑	Purge	3
				Test Group: 8260-W-Full; # of Analytes: 103 / # of Surr: 4				
1304061-002B				**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:				
1304061-002C				**3510-TPH-PR**		☐	Walkin-TPH (Liters)	
				8015-W-TPH(1L)		☑	Walkin-TPH (Liters)	
				Test Group: 8015-W-TPH1L; # of Analytes: 1 / # of Surr: 1				
1304061-003A	**50' from N Boom / 4920508**	4/2/2013 1000h	4/2/2013 1400h	**8260-W**	Aqueous	☑	Purge	3
				Test Group: 8260-W-Full; # of Analytes: 103 / # of Surr: 4				
1304061-003B				**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:				
1304061-003C				**3510-TPH-PR**		☐	Walkin-TPH (Liters)	
				8015-W-TPH(1L)		☑	Walkin-TPH (Liters)	
				Test Group: 8015-W-TPH1L; # of Analytes: 1 / # of Surr: 1				
1304061-004A	**North Boom / 4920397**	4/2/2013 1010h	4/2/2013 1400h	**8260-W**	Aqueous	☑	Purge	3
				Test Group: 8260-W-Full; # of Analytes: 103 / # of Surr: 4				
1304061-004B				**3510-SVOA-PR**		☐	walkin - semi	2

Printed: 4/2/2013

FOR LABORATORY USE ONLY [fill out on page 1]: %M ☐ RT ☑ CN ☑ TAT ☑ QC ☑ HOK_____ HOK_____ HOK_____ COC Emailed_____

WORK ORDER Summary

Work Order: **1304061**

Client: Utah Division of Water Quality

Due Date: 4/16/2013

Sample ID	Client Sample ID	Collected Date	Received Date	Test Code	Matrix	Sel	Storage	
1304061-004B	**North Boom / 4920397**	4/2/2013 1010h	4/2/2013 1400h	**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:				
1304061-004C				**3510-TPH-PR**		☐	Walkin-TPH (Liters)	
				8015-W-TPH(1L)		☑	Walkin-TPH (Liters)	
				Test Group: 8015-W-TPH1L; # of Analytes: 1 / # of Surr: 1				
1304061-005A	**W. Boom 5 / 4920499**	4/2/2013 1020h	4/2/2013 1400h	**8260-W**	Aqueous	☑	Purge	3
				Test Group: 8260-W-Full; # of Analytes: 103 / # of Surr: 4				
1304061-005B				**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:				
1304061-005C				**3510-TPH-PR**		☐	Walkin-TPH (Liters)	
				8015-W-TPH(1L)		☑	Walkin-TPH (Liters)	
				Test Group: 8015-W-TPH1L; # of Analytes: 1 / # of Surr: 1				
1304061-006A	**W. Boom 4 / 4920498**	4/2/2013 1030h	4/2/2013 1400h	**8260-W**	Aqueous	☑	Purge	3
				Test Group: 8260-W-Full; # of Analytes: 103 / # of Surr: 4				
1304061-006B				**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:				
1304061-006C				**3510-TPH-PR**		☐	Walkin-TPH (Liters)	
				8015-W-TPH(1L)		☑	Walkin-TPH (Liters)	
				Test Group: 8015-W-TPH1L; # of Analytes: 1 / # of Surr: 1				
1304061-007A	**50' from WB 4 / 4920502**	4/2/2013 1040h	4/2/2013 1400h	**8260-W**	Aqueous	☑	Purge	3
				Test Group: 8260-W-Full; # of Analytes: 103 / # of Surr: 4				
1304061-007B				**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:				
1304061-007C				**3510-TPH-PR**		☐	Walkin-TPH (Liters)	
				8015-W-TPH(1L)		☑	Walkin-TPH (Liters)	
				Test Group: 8015-W-TPH1L; # of Analytes: 1 / # of Surr: 1				
1304061-008A	**W. Boom 3 / 4920497**	4/2/2013 1050h	4/2/2013 1400h	**8260-W**	Aqueous	☑	Purge	3
				Test Group: 8260-W-Full; # of Analytes: 103 / # of Surr: 4				
1304061-008B				**3510-SVOA-PR**		☐	walkin - semi	2

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WORK ORDER Summary

Work Order: **1304061**

Client: Utah Division of Water Quality

Due Date: 4/16/2013

Sample ID	Client Sample ID	Collected Date	Received Date	Test Code	Matrix	Sel	Storage	
1304061-008B	**W. Boom 3 / 4920497**	4/2/2013 1050h	4/2/2013 1400h	**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:				
1304061-008C				**3510-TPH-PR**		☐	Walkin-TPH (Liters)	
				8015-W-TPH(1L)		☑	Walkin-TPH (Liters)	
				Test Group: 8015-W-TPH1L; # of Analytes: 1 / # of Surr: 1				
1304061-009A	**W. Boom 2 / 4920496**	4/2/2013 1100h	4/2/2013 1400h	**8260-W**	Aqueous	☑	Purge	3
				Test Group: 8260-W-Full; # of Analytes: 103 / # of Surr: 4				
1304061-009B				**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:				
1304061-009C				**3510-TPH-PR**		☐	Walkin-TPH (Liters)	
				8015-W-TPH(1L)		☑	Walkin-TPH (Liters)	
				Test Group: 8015-W-TPH1L; # of Analytes: 1 / # of Surr: 1				
1304061-010A	**50' From WB1 / 4920505**	4/2/2013 1110h	4/2/2013 1400h	**8260-W**	Aqueous	☑	Purge	3
				Test Group: 8260-W-Full; # of Analytes: 103 / # of Surr: 4				
1304061-010B				**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:				
1304061-010C				**3510-TPH-PR**		☐	Walkin-TPH (Liters)	
				8015-W-TPH(1L)		☑	Walkin-TPH (Liters)	
				Test Group: 8015-W-TPH1L; # of Analytes: 1 / # of Surr: 1				
1304061-011A	**W. Boom 1 / 4920396**	4/2/2013 1120h	4/2/2013 1400h	**8260-W**	Aqueous	☑	Purge	3
				Test Group: 8260-W-Full; # of Analytes: 103 / # of Surr: 4				
1304061-011B				**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:				
1304061-011C				**3510-TPH-PR**		☐	Walkin-TPH (Liters)	
				8015-W-TPH(1L)		☑	Walkin-TPH (Liters)	
				Test Group: 8015-W-TPH1L; # of Analytes: 1 / # of Surr: 1				
1304061-012A	**East of Boom / 4920395**	4/2/2013 1145h	4/2/2013 1400h	**8260-W**	Aqueous	☑	Purge	3
				Test Group: 8260-W-Full; # of Analytes: 103 / # of Surr: 4				
1304061-012B				**3510-SVOA-PR**		☐	walkin - semi	2

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WORK ORDER Summary

Work Order: **1304061**

Client: Utah Division of Water Quality

Due Date: 4/3/2013

Sample ID	Client Sample ID	Collected Date	Received Date	Test Code	Matrix	Sel	Storage	
1304061-012B	**East of Boom / 4920395**	4/2/2013 1145h	4/2/2013 1400h	**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:				
1304061-012C				**3510-TPH-PR**		☐	Walkin-TPH (Liters)	
				8015-W-TPH(1L)		☑	Walkin-TPH (Liters)	
				Test Group: 8015-W-TPH1L; # of Analytes: 1 / # of Surr: 1				
1304061-013A	**Between Weirs / 4920394**	4/2/2013 1200h	4/2/2013 1400h	**8260-W**	Aqueous	☑	Purge	3
				Test Group: 8260-W-Full; # of Analytes: 103 / # of Surr: 4				
1304061-013B				**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:				
1304061-013C				**3510-TPH-PR**		☐	Walkin-TPH (Liters)	
				8015-W-TPH(1L)		☑	Walkin-TPH (Liters)	
				Test Group: 8015-W-TPH1L; # of Analytes: 1 / # of Surr: 1				
1304061-014A	**Between Weirs Dup / 4920394**	4/2/2013 1210h	4/2/2013 1400h	**8260-W**	Aqueous	☑	Purge	3
				Test Group: 8260-W-Full; # of Analytes: 103 / # of Surr: 4				
1304061-014B				**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:				
1304061-014C				**3510-TPH-PR**		☐	Walkin-TPH (Liters)	
				8015-W-TPH(1L)		☑	Walkin-TPH (Liters)	
				Test Group: 8015-W-TPH1L; # of Analytes: 1 / # of Surr: 1				
1304061-015A	**Field Blank**	4/2/2013 1230h	4/2/2013 1400h	**8260-W**	Aqueous	☑	Purge	3
				Test Group: 8260-W-Full; # of Analytes: 103 / # of Surr: 4				
1304061-016A	**Trip Blank**	4/2/2013	4/2/2013 1400h	**8260-W**	Aqueous	☑	Purge	3
				Test Group: 8260-W-Full; # of Analytes: 103 / # of Surr: 4				
1304061-017A	**French Drain / 4920398**	4/2/2013 1200h	4/2/2013 1400h	**8260-W**	Aqueous	☑	Purge	3
				Test Group: 8260-W-Full; # of Analytes: 103 / # of Surr: 4				
1304061-017B				**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:				
1304061-017C				**3510-TPH-PR**		☐	Walkin-TPH (Liters)	

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WORK ORDER Summary

Work Order: **1304061**

Client: Utah Division of Water Quality

Due Date: 4/3/2013

Sample ID	Client Sample ID	Collected Date	Received Date	Test Code	Matrix	Sel	Storage	
1304061-017C	**French Drain / 4920398**	4/2/2013 1200h	4/2/2013 1400h	**8015-W-TPH(1L)**	Aqueous	☑	Walkin-TPH (Liters)	2
				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_____

American West Analytical Laboratories

Chain of Custody

Lab Sample Set # 1304061

Client: **Utah DEQ**
Address: **195 North 1950 West**
Salt Lake City, UT 84114

Project Name: **MP 44.9**
PO#:

Contact: **Chris Bittner**
Phone: **801-536-3600**
Fax :
Email: cbittner@utah.gov

QC Level: **3**
Turn Around Time
1

	Sample ID:	Date Sampled	Time	# of Containers	Sample Matrix	8260 VOAs	8270D PNA SIM TIC	8015D DRO												Comments
1	East of I-15 4920392	4/2/13	8:30	7	W	x	x	x												
2	S. Marina 4920495	4/2/13	9:00	7	W	x	x	x												
3	50' fr. N Boom 4920508	4/2/13	10:00	7	W	x	x	x												
4	North Boom 4920397	4/2/13	10:10	7	W	x	x	x												
5	W. Boom 5 4920499	4/2/13	10:20	7	W	x	x	x												
6	W. Boom 4 4920498	4/2/13	10:30	7	W	x	x	x												
7	50' from WB4 4920502	4/2/13	10:40	7	W	x	x	x												
8	W. Boom 3 4920497	4/2/13	10:50	7	W	x	x	x												
9	W. Boom 2 4920496	4/2/13	~~10:~~ 11:00	7	W	x	x	x												
10	50 ' from WB1 4920505	4/2/13	11:10	7	W	x	x	x												
11	W. Boom 1 4920396	4/2/13	11:20	7	W	x	x	x												
12	East of Boom 4920395	4/2/13	11:45	7	W	x	x	x												
13	B/t Weirs 4920394	4/2/13	12:00	7	W	x	x	x												
14	B/t Weirs Dup 4920394	4/2/13	12:10	7	W	x	x	x												
15	Field Blank	4/2/13	12:30	3	W	x														
16	Trip Blank			3	W	x														
	FRENCH DRAIN 4920398	4/2/13	12:00	7	W	X	X	X												

Special Instructions:

Samples Were:
1. Shipped or hand delivered
2. Ambient or Chilled
3. Temperature 1.8
4. Received Broken/Leaking (Improperly Sealed) Y N
5. Properly Preserved Y N
6. Received Within Holding Times Y N

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

Relinquished by: Signature	Date:	Received by: Signature	Date:
Print Name: ALEX ANDERSON	Time: 14:00	Print Name: Elena Hayward	Time: 1400
Relinquished by: Signature	Date:	Received by: Signature	Date:
Print Name	Time:	Print Name	Time: