463 West 3600 South
Salt Lake City, UT 84115

Phone: (801) 263-8686
Toll Free: (888) 263-8686
Fax: (801) 263-8687
e-mail: awal@awal-labs.com

web: www.awal-labs.com

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 Incident

Dear Chris Bittner: Lab Set ID: 1303596

American West Analytical Laboratories received 9 sample(s) on 3/23/2013 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: 2013.03.28 15:25:56 -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.

Inorganic Case Narrative

463 West 3600 South
Salt Lake City, UT 84115

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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 Incident
Lab Set ID:	1303596

Sample Receipt Information:

Date of Receipt:	3/23/2013
Date of Collection:	3/23/2013
Sample Condition:	Intact
C-O-C Discrepancies:	None

Holding Time and Preservation Requirements: The analysis and preparation for the samples were performed within the method holding times. The samples were properly preserved.

Preparation and Analysis Requirements: The samples were 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:

Method Blanks (MB): No target analytes were detected above reporting limits, indicating that 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 Duplicates (MS/MSD): All percent recoveries and RPDs (Relative Percent Differences) were inside established limits, with the following exception: the MS percent recovery for Chemical Oxygen Demand on sample 1303596-009E was outside of the control limits due to sample matrix interference.

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.

TPH (DRO) and (ORO) Case Narrative

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Salt Lake City, UT 84115

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Toll Free: (888) 263-8686
Fax: (801) 263-8687
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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 Incident
Lab Set ID:	1303596

Sample Receipt Information:

Date of Receipt:	3/23/2013
Date of Collection:	3/23/2013
Sample Condition:	Intact
C-O-C Discrepancies:	None
Method:	SW-846 8015D /3510C
Analysis:	Total Petroleum Hydrocarbon (DRO - C10-28) Total Petroleum Hydrocarbon (ORO - C28-36)

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

463 West 3600 South
Salt Lake City, UT 84115

Phone: (801) 263-8686
Toll Free: (888) 263-8686
Fax: (801) 263-8687
e-mail: awal@awal-labs.com

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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 Incident
Lab Set ID:	1303596

Sample Receipt Information:

Date of Receipt:	3/23/2013
Date of Collection:	3/23/2013
Sample Condition:	Intact
C-O-C Discrepancies:	None
Method:	SW-846 8270D/3510C
Analysis:	Semivolatile Organics

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

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

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

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

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

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

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

Matrix Spike / Matrix Spike Duplicate (MS/MSD): All percent recoveries were inside established limits. The Relative Percent Differences (RPDs) for multiple analytes were outside of the control limits on sample 1303597-002B due to suspected sample non-homogeneity or sample matrix interference.

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 Incident
Lab Set ID:	1303596

Sample Receipt Information:

Date of Receipt:	3/23/2013
Date of Collection:	3/23/2013
Sample Condition:	Intact
C-O-C Discrepancies:	None
Method:	SW-846 8260C/5030C
Analysis:	Volatile Organic Compounds

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

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

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

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

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

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

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

Surrogates: All surrogate recoveries were within established limits.

Corrective Action: None required.

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

INORGANIC ANALYTICAL REPORT

Client: Utah Division of Water Quality **Contact:** Chris Bittner
Project: MP 44.9 Incident
Lab Sample ID: 1303596-001
Client Sample ID: East of I-15 / 4920392
Collection Date: 3/23/2013 900h
Received Date: 3/23/2013 1410h

Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Chemical Oxygen Demand	mg/L		3/25/2013 1100h	HACH 8000	10.0	< 10.0	

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INORGANIC ANALYTICAL REPORT

Client: Utah Division of Water Quality **Contact:** Chris Bittner
Project: MP 44.9 Incident
Lab Sample ID: 1303596-002
Client Sample ID: South Marina / 4920495
Collection Date: 3/23/2013 1000h
Received Date: 3/23/2013 1410h

Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Chemical Oxygen Demand	mg/L		3/25/2013 1100h	HACH 8000	10.0	< 10.0	

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INORGANIC ANALYTICAL REPORT

Client: Utah Division of Water Quality **Contact:** Chris Bittner
Project: MP 44.9 Incident
Lab Sample ID: 1303596-005
Client Sample ID: West Boom / 4920396
Collection Date: 3/23/2013 1045h
Received Date: 3/23/2013 1410h

Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Chemical Oxygen Demand	mg/L		3/25/2013 1100h	HACH 8000	10.0	**22.0**	

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INORGANIC ANALYTICAL REPORT

Client: Utah Division of Water Quality **Contact:** Chris Bittner
Project: MP 44.9 Incident
Lab Sample ID: 1303596-006
Client Sample ID: East Boom / 4920395
Collection Date: 3/23/2013 1100h
Received Date: 3/23/2013 1410h

Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Chemical Oxygen Demand	mg/L		3/25/2013 1100h	HACH 8000	10.0	**13.0**	

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INORGANIC ANALYTICAL REPORT

Client: Utah Division of Water Quality **Contact:** Chris Bittner
Project: MP 44.9 Incident
Lab Sample ID: 1303596-007
Client Sample ID: North Boom / 4920397
Collection Date: 3/23/2013 1115h
Received Date: 3/23/2013 1410h

Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Chemical Oxygen Demand	mg/L		3/25/2013 1100h	HACH 8000	10.0	**14.0**	

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INORGANIC ANALYTICAL REPORT

Client: Utah Division of Water Quality **Contact:** Chris Bittner
Project: MP 44.9 Incident
Lab Sample ID: 1303596-008
Client Sample ID: Between Weirs / 4920394
Collection Date: 3/23/2013 1130h
Received Date: 3/23/2013 1410h

Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Chemical Oxygen Demand	mg/L		3/25/2013 1100h	HACH 8000	10.0	**26.0**	

463 West 3600 South
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INORGANIC ANALYTICAL REPORT

Client: Utah Division of Water Quality **Contact:** Chris Bittner
Project: MP 44.9 Incident
Lab Sample ID: 1303596-009
Client Sample ID: Between Weirs Dup / 4920394
Collection Date: 3/23/2013 1230h
Received Date: 3/23/2013 1410h

Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Chemical Oxygen Demand	mg/L		3/25/2013 1100h	HACH 8000	10.0	**19.0**	[1]

[1] - Matrix spike recovery indicates matrix interference. The method is in control as indicated by the LCS.

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ORGANIC ANALYTICAL REPORT

Client: Utah Division of Water Quality **Contact:** Chris Bittner
Project: MP 44.9 Incident
Lab Sample ID: 1303596-001D
Client Sample ID: East of I-15 / 4920392
Collection Date: 3/23/2013 900h
Received Date: 3/23/2013 1410h

Analytical Results TPH-ORO (C28-C36) by GC/FID Method 8015D/3510C

Analyzed: 3/25/2013 017h **Extracted:** 3/24/2013 915h
Units: mg/L **Dilution Factor:** 1 **Method:** SW8015D

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Oil Range Organics (ORO) (C28-C36)		0.500	< 0.500	

Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: C27		0.197	0.2000	98.7	10-200	

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ORGANIC ANALYTICAL REPORT

Client: Utah Division of Water Quality **Contact:** Chris Bittner
Project: MP 44.9 Incident
Lab Sample ID: 1303596-002D
Client Sample ID: South Marina / 4920495
Collection Date: 3/23/2013 1000h
Received Date: 3/23/2013 1410h

Analytical Results TPH-ORO (C28-C36) by GC/FID Method 8015D/3510C

Analyzed: 3/25/2013 041h **Extracted:** 3/24/2013 915h
Units: mg/L **Dilution Factor:** 1 **Method:** SW8015D

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Oil Range Organics (ORO) (C28-C36)		0.556	< 0.556	

Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: C27		0.184	0.2222	82.7	10-200	

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ORGANIC ANALYTICAL REPORT

Client: Utah Division of Water Quality **Contact:** Chris Bittner
Project: MP 44.9 Incident
Lab Sample ID: 1303596-005D
Client Sample ID: West Boom / 4920396
Collection Date: 3/23/2013 1045h
Received Date: 3/23/2013 1410h

Analytical Results TPH-ORO (C28-C36) by GC/FID Method 8015D/3510C

Analyzed: 3/25/2013 104h **Extracted:** 3/24/2013 915h
Units: mg/L **Dilution Factor:** 1 **Method:** SW8015D

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Oil Range Organics (ORO) (C28-C36)		0.556	< 0.556	

Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: C27		0.187	0.2222	84.1	10-200	

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ORGANIC ANALYTICAL REPORT

Client: Utah Division of Water Quality **Contact:** Chris Bittner
Project: MP 44.9 Incident
Lab Sample ID: 1303596-006D
Client Sample ID: East Boom / 4920395
Collection Date: 3/23/2013 1100h
Received Date: 3/23/2013 1410h

Analytical Results TPH-ORO (C28-C36) by GC/FID Method 8015D/3510C

Analyzed: 3/25/2013 128h **Extracted:** 3/24/2013 915h
Units: mg/L **Dilution Factor:** 1 **Method:** SW8015D

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Oil Range Organics (ORO) (C28-C36)		0.556	< 0.556	

Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: C27		0.173	0.2222	77.9	10-200	

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ORGANIC ANALYTICAL REPORT

Client: Utah Division of Water Quality **Contact:** Chris Bittner
Project: MP 44.9 Incident
Lab Sample ID: 1303596-007D
Client Sample ID: North Boom / 4920397
Collection Date: 3/23/2013 1115h
Received Date: 3/23/2013 1410h

Analytical Results TPH-ORO (C28-C36) by GC/FID Method 8015D/3510C

Analyzed: 3/25/2013 239h **Extracted:** 3/24/2013 915h
Units: mg/L **Dilution Factor:** 1 **Method:** SW8015D

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Oil Range Organics (ORO) (C28-C36)		0.556	< 0.556	

Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: C27		0.138	0.2222	62.0	10-200	

463 West 3600 South
Salt Lake City, UT 84115

Phone: (801) 263-8686
Toll Free: (888) 263-8686
Fax: (801) 263-8687
e-mail: awal@awal-labs.com

web: www.awal-labs.com

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 Incident
Lab Sample ID: 1303596-008D
Client Sample ID: Between Weirs / 4920394
Collection Date: 3/23/2013 1130h
Received Date: 3/23/2013 1410h

Analytical Results TPH-ORO (C28-C36) by GC/FID Method 8015D/3510C

Analyzed: 3/25/2013 303h **Extracted:** 3/24/2013 915h
Units: mg/L **Dilution Factor:** 1 **Method:** SW8015D

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Oil Range Organics (ORO) (C28-C36)		0.500	< 0.500	

Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: C27		0.194	0.2000	96.9	10-200	

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Salt Lake City, UT 84115

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ORGANIC ANALYTICAL REPORT

Client: Utah Division of Water Quality **Contact:** Chris Bittner
Project: MP 44.9 Incident
Lab Sample ID: 1303596-009D
Client Sample ID: Between Weirs Dup / 4920394
Collection Date: 3/23/2013 1230h
Received Date: 3/23/2013 1410h

Analytical Results TPH-ORO (C28-C36) by GC/FID Method 8015D/3510C

Analyzed: 3/25/2013 327h **Extracted:** 3/24/2013 915h
Units: mg/L **Dilution Factor:** 1 **Method:** SW8015D

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Oil Range Organics (ORO) (C28-C36)		0.500	< 0.500	

Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: C27		0.190	0.2000	94.8	10-200	

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ORGANIC ANALYTICAL REPORT

Client: Utah Division of Water Quality **Contact:** Chris Bittner
Project: MP 44.9 Incident
Lab Sample ID: 1303596-001C
Client Sample ID: East of I-15 / 4920392
Collection Date: 3/23/2013 900h
Received Date: 3/23/2013 1410h

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

Analyzed: 3/23/2013 2037h **Extracted:** 3/23/2013 1645h
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	0.224	0.4000	56.0	10-190	

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ORGANIC ANALYTICAL REPORT

Client: Utah Division of Water Quality **Contact:** Chris Bittner
Project: MP 44.9 Incident
Lab Sample ID: 1303596-002C
Client Sample ID: South Marina / 4920495
Collection Date: 3/23/2013 1000h
Received Date: 3/23/2013 1410h

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

Analyzed: 3/23/2013 2057h **Extracted:** 3/23/2013 1645h
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	0.228	0.4000	57.1	10-190	

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Salt Lake City, UT 84115

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ORGANIC ANALYTICAL REPORT

Client: Utah Division of Water Quality **Contact:** Chris Bittner
Project: MP 44.9 Incident
Lab Sample ID: 1303596-005C
Client Sample ID: West Boom / 4920396
Collection Date: 3/23/2013 1045h
Received Date: 3/23/2013 1410h

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

Analyzed: 3/23/2013 2116h **Extracted:** 3/23/2013 1645h
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	**2.85**	

Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 4-Bromofluorobenzene	460-00-4	0.211	0.4000	52.8	10-190	

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Salt Lake City, UT 84115

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ORGANIC ANALYTICAL REPORT

Client: Utah Division of Water Quality **Contact:** Chris Bittner
Project: MP 44.9 Incident
Lab Sample ID: 1303596-006C
Client Sample ID: East Boom / 4920395
Collection Date: 3/23/2013 1100h
Received Date: 3/23/2013 1410h

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

Analyzed: 3/23/2013 2135h **Extracted:** 3/23/2013 1645h
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	**1.91**	

Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 4-Bromofluorobenzene	460-00-4	0.222	0.4000	55.6	10-190	

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ORGANIC ANALYTICAL REPORT

Client: Utah Division of Water Quality **Contact:** Chris Bittner
Project: MP 44.9 Incident
Lab Sample ID: 1303596-007C
Client Sample ID: North Boom / 4920397
Collection Date: 3/23/2013 1115h
Received Date: 3/23/2013 1410h

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

Analyzed: 3/23/2013 2154h **Extracted:** 3/23/2013 1645h
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	**0.716**	

Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 4-Bromofluorobenzene	460-00-4	0.222	0.4000	55.6	10-190	

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ORGANIC ANALYTICAL REPORT

Client: Utah Division of Water Quality **Contact:** Chris Bittner
Project: MP 44.9 Incident
Lab Sample ID: 1303596-008C
Client Sample ID: Between Weirs / 4920394
Collection Date: 3/23/2013 1130h
Received Date: 3/23/2013 1410h

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

Analyzed: 3/23/2013 2213h **Extracted:** 3/23/2013 1645h
Units: mg/L **Dilution Factor:** 1 **Method:** SW8015D

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Diesel Range Organics (DRO) (C10-C28)	68476-34-6	0.500	**11.0**	

Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 4-Bromofluorobenzene	460-00-4	0.186	0.4000	46.6	10-190	

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ORGANIC ANALYTICAL REPORT

Client: Utah Division of Water Quality **Contact:** Chris Bittner
Project: MP 44.9 Incident
Lab Sample ID: 1303596-009C
Client Sample ID: Between Weirs Dup / 4920394
Collection Date: 3/23/2013 1230h
Received Date: 3/23/2013 1410h

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

Analyzed: 3/23/2013 2232h **Extracted:** 3/23/2013 1645h
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	**6.90**	

Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 4-Bromofluorobenzene	460-00-4	0.177	0.4000	44.2	10-190	

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ORGANIC ANALYTICAL REPORT

Client: Utah Division of Water Quality **Contact:** Chris Bittner
Project: MP 44.9 Incident
Lab Sample ID: 1303596-001B
Client Sample ID: East of I-15 / 4920392
Collection Date: 3/23/2013 900h
Received Date: 3/23/2013 1410h

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

Analyzed: 3/28/2013 1034h **Extracted:** 3/26/2013 756h
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	**0.130**	
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	**0.170**	
Phenanthrene	85-01-8	0.100	< 0.100	
Pyrene	129-00-0	0.100	**0.150**	

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ORGANIC ANALYTICAL REPORT

Client: Utah Division of Water Quality **Contact:** Chris Bittner
Project: MP 44.9 Incident
Lab Sample ID: 1303596-002B
Client Sample ID: South Marina / 4920495
Collection Date: 3/23/2013 1000h
Received Date: 3/23/2013 1410h

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

Analyzed: 3/28/2013 1101h **Extracted:** 3/26/2013 756h
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	**0.160**	
Acenaphthene	83-32-9	0.100	< 0.100	
Acenaphthylene	208-96-8	0.100	< 0.100	
Anthracene	120-12-7	0.100	< 0.100	
Benz(a)anthracene	56-55-3	0.100	< 0.100	
Benzo(a)pyrene	50-32-8	0.100	< 0.100	
Benzo(b)fluoranthene	205-99-2	0.100	< 0.100	
Benzo(g,h,i)perylene	191-24-2	0.100	< 0.100	
Benzo(k)fluoranthene	207-08-9	0.100	< 0.100	
Chrysene	218-01-9	0.100	< 0.100	
Dibenz(a,h)anthracene	53-70-3	0.100	< 0.100	
Fluoranthene	206-44-0	0.100	< 0.100	
Fluorene	86-73-7	0.100	< 0.100	
Indene	95-13-6	0.100	< 0.100	
Indeno(1,2,3-cd)pyrene	193-39-5	0.100	< 0.100	
Naphthalene	91-20-3	0.100	**0.120**	
Phenanthrene	85-01-8	0.100	< 0.100	
Pyrene	129-00-0	0.100	< 0.100	

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ORGANIC ANALYTICAL REPORT

Client: Utah Division of Water Quality **Contact:** Chris Bittner
Project: MP 44.9 Incident
Lab Sample ID: 1303596-005B
Client Sample ID: West Boom / 4920396
Collection Date: 3/23/2013 1045h
Received Date: 3/23/2013 1410h

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

Analyzed: 3/28/2013 1127h **Extracted:** 3/26/2013 756h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8270D

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
1-Methylnaphthalene	90-12-0	0.100	**3.03**	
2-Methylnaphthalene	91-57-6	0.100	**1.94**	
Acenaphthene	83-32-9	0.100	< 0.100	
Acenaphthylene	208-96-8	0.100	< 0.100	
Anthracene	120-12-7	0.100	< 0.100	
Benz(a)anthracene	56-55-3	0.100	< 0.100	
Benzo(a)pyrene	50-32-8	0.100	< 0.100	
Benzo(b)fluoranthene	205-99-2	0.100	< 0.100	
Benzo(g,h,i)perylene	191-24-2	0.100	< 0.100	
Benzo(k)fluoranthene	207-08-9	0.100	< 0.100	
Chrysene	218-01-9	0.100	< 0.100	
Dibenz(a,h)anthracene	53-70-3	0.100	< 0.100	
Fluoranthene	206-44-0	0.100	< 0.100	
Fluorene	86-73-7	0.100	< 0.100	
Indene	95-13-6	0.100	< 0.100	
Indeno(1,2,3-cd)pyrene	193-39-5	0.100	< 0.100	
Naphthalene	91-20-3	0.100	**1.43**	
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 Incident
Lab Sample ID: 1303596-006B
Client Sample ID: East Boom / 4920395
Collection Date: 3/23/2013 1100h
Received Date: 3/23/2013 1410h

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

Analyzed: 3/28/2013 1154h **Extracted:** 3/26/2013 756h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8270D

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
1-Methylnaphthalene	90-12-0	0.100	**1.16**	
2-Methylnaphthalene	91-57-6	0.100	**0.800**	
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	**0.520**	
Phenanthrene	85-01-8	0.100	< 0.100	
Pyrene	129-00-0	0.100	< 0.100	

463 West 3600 South
Salt Lake City, UT 84115

Phone: (801) 263-8686
Toll Free: (888) 263-8686
Fax: (801) 263-8687
e-mail: awal@awal-labs.com

web: www.awal-labs.com

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 Incident
Lab Sample ID: 1303596-007B
Client Sample ID: North Boom / 4920397
Collection Date: 3/23/2013 1115h
Received Date: 3/23/2013 1410h

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

Analyzed: 3/28/2013 1221h **Extracted:** 3/26/2013 756h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8270D

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
1-Methylnaphthalene	90-12-0	0.100	**0.400**	
2-Methylnaphthalene	91-57-6	0.100	**0.290**	
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	**0.230**	
Phenanthrene	85-01-8	0.100	< 0.100	
Pyrene	129-00-0	0.100	< 0.100	

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Salt Lake City, UT 84115

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ORGANIC ANALYTICAL REPORT

Client: Utah Division of Water Quality **Contact:** Chris Bittner
Project: MP 44.9 Incident
Lab Sample ID: 1303596-008B
Client Sample ID: Between Weirs / 4920394
Collection Date: 3/23/2013 1130h
Received Date: 3/23/2013 1410h

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

Analyzed: 3/28/2013 1248h **Extracted:** 3/26/2013 756h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8270D

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
1-Methylnaphthalene	90-12-0	0.100	**5.86**	
2-Methylnaphthalene	91-57-6	0.100	**3.74**	
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	**2.76**	
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 Incident
Lab Sample ID: 1303596-009B
Client Sample ID: Between Weirs Dup / 4920394
Collection Date: 3/23/2013 1230h
Received Date: 3/23/2013 1410h

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

Analyzed: 3/28/2013 1314h **Extracted:** 3/26/2013 756h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8270D

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
1-Methylnaphthalene	90-12-0	0.100	**4.52**	
2-Methylnaphthalene	91-57-6	0.100	**2.92**	
Acenaphthene	83-32-9	0.100	< 0.100	
Acenaphthylene	208-96-8	0.100	< 0.100	
Anthracene	120-12-7	0.100	< 0.100	
Benz(a)anthracene	56-55-3	0.100	< 0.100	
Benzo(a)pyrene	50-32-8	0.100	< 0.100	
Benzo(b)fluoranthene	205-99-2	0.100	< 0.100	
Benzo(g,h,i)perylene	191-24-2	0.100	< 0.100	
Benzo(k)fluoranthene	207-08-9	0.100	< 0.100	
Chrysene	218-01-9	0.100	< 0.100	
Dibenz(a,h)anthracene	53-70-3	0.100	< 0.100	
Fluoranthene	206-44-0	0.100	< 0.100	
Fluorene	86-73-7	0.100	< 0.100	
Indene	95-13-6	0.100	< 0.100	
Indeno(1,2,3-cd)pyrene	193-39-5	0.100	< 0.100	
Naphthalene	91-20-3	0.100	**1.93**	
Phenanthrene	85-01-8	0.100	< 0.100	
Pyrene	129-00-0	0.100	< 0.100	

American West ANALYTICAL LABORATORIES
463 West 3600 South
Salt Lake City, UT 84115

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Kyle F. Gross
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ORGANIC ANALYTICAL REPORT

Client: Utah Division of Water Quality **Contact:** Chris Bittner
Project: MP 44.9 Incident
Lab Sample ID: 1303596-001B
Client Sample ID: East of I-15 / 4920392
Collection Date: 3/23/2013 900h
Received Date: 3/23/2013 1410h

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

Analyzed: 3/26/2013 1550h **Extracted:** 3/26/2013 756h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8270D

463 West 3600 South
Salt Lake City, UT 84115

Phone: (801) 263-8686
Toll Free: (888) 263-8686
Fax: (801) 263-8687
e-mail: awal@awal-labs.com

web: www.awal-labs.com

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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ANALYTICAL LABORATORIES

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Salt Lake City, UT 84115

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Toll Free: (888) 263-8686
Fax: (801) 263-8687
e-mail: awal@awal-labs.com

web: www.awal-labs.com

Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

Lab Sample ID: 1303596-001B
Client Sample ID: East of I-15 / 4920392

Analyzed: 3/26/2013 1550h **Extracted:** 3/26/2013 756h
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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Fax: (801) 263-8687
e-mail: awal@awal-labs.com

web: www.awal-labs.com

Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

Lab Sample ID: 1303596-001B
Client Sample ID: East of I-15 / 4920392

Analyzed: 3/26/2013 1550h **Extracted:** 3/26/2013 756h
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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web: www.awal-labs.com

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Laboratory Director

Jose Rocha
QA Officer

Lab Sample ID: 1303596-001B
Client Sample ID: East of I-15 / 4920392

Analyzed: 3/26/2013 1550h **Extracted:** 3/26/2013 756h
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: Squalene	007683-64-9		10.0	JN

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American West
ANALYTICAL LABORATORIES

463 West 3600 South
Salt Lake City, UT 84115

Phone: (801) 263-8686
Toll Free: (888) 263-8686
Fax: (801) 263-8687
e-mail: awal@awal-labs.com

web: www.awal-labs.com

Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

Lab Sample ID: 1303596-001B
Client Sample ID: East of I-15 / 4920392

Analyzed: 3/26/2013 1550h **Extracted:** 3/26/2013 756h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8270D

Compound	CAS Number	Reporting Limit	Analytical Result	Qual

Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 2,4,6-Tribromophenol	118-79-6	48.3	80.00	60.3	14-159	
Surr: 2-Fluorobiphenyl	321-60-8	19.0	40.00	47.6	10-124	
Surr: 2-Fluorophenol	367-12-4	20.1	80.00	25.1	10-106	
Surr: Nitrobenzene-d5	4165-60-0	16.1	40.00	40.2	10-180	
Surr: Phenol-d6	13127-88-3	15.4	80.00	19.2	10-122	
Surr: Terphenyl-d14	1718-51-0	41.3	40.00	103	10-199	

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

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

ORGANIC ANALYTICAL REPORT

Client: Utah Division of Water Quality **Contact:** Chris Bittner
Project: MP 44.9 Incident
Lab Sample ID: 1303596-002B
Client Sample ID: South Marina / 4920495
Collection Date: 3/23/2013 1000h
Received Date: 3/23/2013 1410h

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

Analyzed: 3/26/2013 1617h **Extracted:** 3/26/2013 756h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8270D

463 West 3600 South
Salt Lake City, UT 84115

Phone: (801) 263-8686
Toll Free: (888) 263-8686
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e-mail: awal@awal-labs.com

web: www.awal-labs.com

Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

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

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

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e-mail: awal@awal-labs.com

web: www.awal-labs.com

Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

Lab Sample ID: 1303596-002B
Client Sample ID: South Marina / 4920495

Analyzed: 3/26/2013 1617h **Extracted:** 3/26/2013 756h
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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463 West 3600 South
Salt Lake City, UT 84115

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Toll Free: (888) 263-8686
Fax: (801) 263-8687
e-mail: awal@awal-labs.com

web: www.awal-labs.com

Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

Lab Sample ID: 1303596-002B
Client Sample ID: South Marina / 4920495

Analyzed: 3/26/2013 1617h **Extracted:** 3/26/2013 756h
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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Fax: (801) 263-8687
e-mail: awal@awal-labs.com

web: www.awal-labs.com

Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

Lab Sample ID: 1303596-002B
Client Sample ID: South Marina / 4920495

Analyzed: 3/26/2013 1617h **Extracted:** 3/26/2013 756h
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: 1303596-002B
Client Sample ID: South Marina / 4920495

Analyzed: 3/26/2013 1617h **Extracted:** 3/26/2013 756h
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	55.4	80.00	69.2	14-159	
Surr: 2-Fluorobiphenyl	321-60-8	18.4	40.00	45.9	10-124	
Surr: 2-Fluorophenol	367-12-4	25.5	80.00	31.9	10-106	
Surr: Nitrobenzene-d5	4165-60-0	16.5	40.00	41.2	10-180	
Surr: Phenol-d6	13127-88-3	20.3	80.00	25.4	10-122	
Surr: Terphenyl-d14	1718-51-0	36.5	40.00	91.2	10-199	

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 Incident
Lab Sample ID: 1303596-005B
Client Sample ID: West Boom / 4920396
Collection Date: 3/23/2013 1045h
Received Date: 3/23/2013 1410h

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

Analyzed: 3/26/2013 1643h **Extracted:** 3/26/2013 756h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8270D

463 West 3600 South
Salt Lake City, UT 84115

Phone: (801) 263-8686
Toll Free: (888) 263-8686
Fax: (801) 263-8687
e-mail: awal@awal-labs.com

web: www.awal-labs.com

Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

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

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

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e-mail: awal@awal-labs.com

web: www.awal-labs.com

Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

Lab Sample ID: 1303596-005B
Client Sample ID: West Boom / 4920396

Analyzed: 3/26/2013 1643h **Extracted:** 3/26/2013 756h
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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American West
ANALYTICAL LABORATORIES

463 West 3600 South
Salt Lake City, UT 84115

Phone: (801) 263-8686
Toll Free: (888) 263-8686
Fax: (801) 263-8687
e-mail: awal@awal-labs.com

web: www.awal-labs.com

Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

Lab Sample ID: 1303596-005B
Client Sample ID: West Boom / 4920396

Analyzed: 3/26/2013 1643h **Extracted:** 3/26/2013 756h
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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e-mail: awal@awal-labs.com

web: www.awal-labs.com

Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

Lab Sample ID: 1303596-005B
Client Sample ID: West Boom / 4920396

Analyzed: 3/26/2013 1643h **Extracted:** 3/26/2013 756h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8270D

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Methapyrilene	91-80-5	10.0	< 10.0	
Methyl methanesulfonate	66-27-3	10.0	< 10.0	
n-Decane	124-18-5	10.0	< 10.0	
N-Nitrosodi-n-butylamine	924-16-3	10.0	< 10.0	
N-Nitrosodiethylamine	55-18-5	10.0	< 10.0	
N-Nitrosodimethylamine	62-75-9	10.0	< 10.0	
N-Nitrosodiphenylamine	86-30-6	10.0	< 10.0	
N-Nitrosodi-n-propylamine	621-64-7	10.0	< 10.0	
N-Nitrosomethylethylamine	10595-95-6	10.0	< 10.0	
N-Nitrosomorpholine	59-89-2	10.0	< 10.0	
N-Nitrosopiperidine	100-75-4	10.0	< 10.0	
N-Nitrosopyrrolidine	930-55-2	10.0	< 10.0	
n-Octadecane	593-45-3	10.0	< 10.0	
Naphthalene	91-20-3	10.0	< 10.0	
Nitrobenzene	98-95-3	10.0	< 10.0	
Nitroquinoline-1-oxide	56-57-5	10.0	< 10.0	
O,O,O-Triethyl phosphorothioate	126-68-1	10.0	< 10.0	
o-Toluidine	95-53-4	10.0	< 10.0	
Parathion	56-38-2	10.0	< 10.0	
Methyl parathion	298-00-0	10.0	< 10.0	
Pentachlorobenzene	608-93-5	10.0	< 10.0	
Pentachloronitrobenzene	82-68-8	10.0	< 10.0	
Pentachlorophenol	87-86-5	10.0	< 10.0	
Phenacetin	62-44-2	10.0	< 10.0	
Phenanthrene	85-01-8	10.0	< 10.0	
Phenol	108-95-2	10.0	< 10.0	
Phorate	298-02-2	10.0	< 10.0	
Pronamide	23950-58-5	10.0	< 10.0	
Pyrene	129-00-0	10.0	< 10.0	
Pyridine	110-86-1	10.0	< 10.0	
Quinoline	91-22-5	10.0	< 10.0	
Safrole	94-59-7	10.0	< 10.0	
Tetraethyl dithiopyrophosphate	3689-24-5	10.0	< 10.0	
Thionazin	297-97-2	10.0	< 10.0	
TIC: 1(2H)-Naphthalenone, 3,4-di…	006939-35-1		16.7	JN
TIC: 1-Isopropyl-3-tert-butylben…	020033-12-9		15.8	JN
TIC: 1-Naphthalenol, 1,2,3,4-tet…	000529-33-9		14.8	JN

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web: www.awal-labs.com

Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

Lab Sample ID: 1303596-005B
Client Sample ID: West Boom / 4920396

Analyzed: 3/26/2013 1643h **Extracted:** 3/26/2013 756h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8270D

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
TIC: 2-Ethyl-1-H-indene	017059-50-6		24.4	JN
TIC: 5,8-Dimethyl-1,2,3,4-tetrah…	032820-12-5		17.3	JN
TIC: Benzene, 1,2-bis(1-methylet…	000577-55-9		15.0	JN
TIC: Benzene, 1,2-diethyl-3,4-di…	054410-75-2		33.9	JN
TIC: Benzene, 1,3,5-triethyl-	000102-25-0		16.3	JN
TIC: Benzene, 1,4-bis(1-methylet…	001605-18-1		26.4	JN
TIC: Benzene, hexamethyl-	000087-85-4		19.3	JN

Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 2,4,6-Tribromophenol	118-79-6	56.9	80.00	71.1	14-159	
Surr: 2-Fluorobiphenyl	321-60-8	15.5	40.00	38.7	10-124	
Surr: 2-Fluorophenol	367-12-4	30.1	80.00	37.6	10-106	
Surr: Nitrobenzene-d5	4165-60-0	19.3	40.00	48.3	10-180	
Surr: Phenol-d6	13127-88-3	23.8	80.00	29.7	10-122	
Surr: Terphenyl-d14	1718-51-0	40.0	40.00	100	10-199	

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

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ORGANIC ANALYTICAL REPORT

Client: Utah Division of Water Quality **Contact:** Chris Bittner
Project: MP 44.9 Incident
Lab Sample ID: 1303596-006B
Client Sample ID: East Boom / 4920395
Collection Date: 3/23/2013 1100h
Received Date: 3/23/2013 1410h

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

Analyzed: 3/26/2013 1710h **Extracted:** 3/26/2013 756h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8270D

463 West 3600 South
Salt Lake City, UT 84115

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Fax: (801) 263-8687
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web: www.awal-labs.com

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: 1303596-006B
Client Sample ID: East Boom / 4920395

Analyzed: 3/26/2013 1710h **Extracted:** 3/26/2013 756h
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: 1303596-006B
Client Sample ID: East Boom / 4920395

Analyzed: 3/26/2013 1710h **Extracted:** 3/26/2013 756h
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	
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Lab Sample ID: 1303596-006B
Client Sample ID: East Boom / 4920395

Analyzed: 3/26/2013 1710h **Extracted:** 3/26/2013 756h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8270D

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Methapyrilene	91-80-5	10.0	< 10.0	
Methyl methanesulfonate	66-27-3	10.0	< 10.0	
n-Decane	124-18-5	10.0	< 10.0	
N-Nitrosodi-n-butylamine	924-16-3	10.0	< 10.0	
N-Nitrosodiethylamine	55-18-5	10.0	< 10.0	
N-Nitrosodimethylamine	62-75-9	10.0	< 10.0	
N-Nitrosodiphenylamine	86-30-6	10.0	< 10.0	
N-Nitrosodi-n-propylamine	621-64-7	10.0	< 10.0	
N-Nitrosomethylethylamine	10595-95-6	10.0	< 10.0	
N-Nitrosomorpholine	59-89-2	10.0	< 10.0	
N-Nitrosopiperidine	100-75-4	10.0	< 10.0	
N-Nitrosopyrrolidine	930-55-2	10.0	< 10.0	
n-Octadecane	593-45-3	10.0	< 10.0	
Naphthalene	91-20-3	10.0	< 10.0	
Nitrobenzene	98-95-3	10.0	< 10.0	
Nitroquinoline-1-oxide	56-57-5	10.0	< 10.0	
O,O,O-Triethyl phosphorothioate	126-68-1	10.0	< 10.0	
o-Toluidine	95-53-4	10.0	< 10.0	
Parathion	56-38-2	10.0	< 10.0	
Methyl parathion	298-00-0	10.0	< 10.0	
Pentachlorobenzene	608-93-5	10.0	< 10.0	
Pentachloronitrobenzene	82-68-8	10.0	< 10.0	
Pentachlorophenol	87-86-5	10.0	< 10.0	
Phenacetin	62-44-2	10.0	< 10.0	
Phenanthrene	85-01-8	10.0	< 10.0	
Phenol	108-95-2	10.0	< 10.0	
Phorate	298-02-2	10.0	< 10.0	
Pronamide	23950-58-5	10.0	< 10.0	
Pyrene	129-00-0	10.0	< 10.0	
Pyridine	110-86-1	10.0	< 10.0	
Quinoline	91-22-5	10.0	< 10.0	
Safrole	94-59-7	10.0	< 10.0	
Tetraethyl dithiopyrophosphate	3689-24-5	10.0	< 10.0	
Thionazin	297-97-2	10.0	< 10.0	
TIC: (1-Methylpenta-2,4-dienyl)b…	1000210-01-1		15.3	JN
TIC: 1-Naphthalenol, 1,2,3,4-tet…	000529-33-9		8.86	JN
TIC: 2-Ethyl-1-H-indene	017059-50-6		16.4	JN

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463 West 3600 South
Salt Lake City, UT 84115

Phone: (801) 263-8686
Toll Free: (888) 263-8686
Fax: (801) 263-8687
e-mail: awal@awal-labs.com

web: www.awal-labs.com

Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

Lab Sample ID: 1303596-006B
Client Sample ID: East Boom / 4920395

Analyzed: 3/26/2013 1710h **Extracted:** 3/26/2013 756h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8270D

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
TIC: 9-Methyl-3,4-dihydro-2H-pyr…	061751-44-8		6.80	JN
TIC: Benzene, 1,2,4-triethyl-	000877-44-1		13.4	JN
TIC: Benzene, 1,2,4-trimethyl-5-…	010222-95-4		8.72	JN
TIC: Benzene, 1,2-diethyl-3,4-di…	054410-75-2		14.9	JN
TIC: Benzene, 1,4-bis(1-methylethyl)-	000100-18-5		8.26	JN
TIC: Benzene, hexamethyl-	000087-85-4		10.8	JN
TIC: Benzo[b]thiophene, 2-ethyl-…	016587-43-2		9.21	JN

Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 2,4,6-Tribromophenol	118-79-6	57.8	80.00	72.3	14-159	
Surr: 2-Fluorobiphenyl	321-60-8	11.9	40.00	29.8	10-124	
Surr: 2-Fluorophenol	367-12-4	17.2	80.00	21.4	10-106	
Surr: Nitrobenzene-d5	4165-60-0	11.1	40.00	27.8	10-180	
Surr: Phenol-d6	13127-88-3	13.7	80.00	17.1	10-122	
Surr: Terphenyl-d14	1718-51-0	37.3	40.00	93.2	10-199	

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

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

ORGANIC ANALYTICAL REPORT

Client: Utah Division of Water Quality **Contact:** Chris Bittner
Project: MP 44.9 Incident
Lab Sample ID: 1303596-007B
Client Sample ID: North Boom / 4920397
Collection Date: 3/23/2013 1115h
Received Date: 3/23/2013 1410h

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

Analyzed: 3/26/2013 1736h **Extracted:** 3/26/2013 756h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8270D

463 West 3600 South
Salt Lake City, UT 84115

Phone: (801) 263-8686
Toll Free: (888) 263-8686
Fax: (801) 263-8687
e-mail: awal@awal-labs.com

web: www.awal-labs.com

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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American West
ANALYTICAL LABORATORIES

463 West 3600 South
Salt Lake City, UT 84115

Phone: (801) 263-8686
Toll Free: (888) 263-8686
Fax: (801) 263-8687
e-mail: awal@awal-labs.com

web: www.awal-labs.com

Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

Lab Sample ID: 1303596-007B
Client Sample ID: North Boom / 4920397

Analyzed: 3/26/2013 1736h **Extracted:** 3/26/2013 756h
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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Salt Lake City, UT 84115

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Toll Free: (888) 263-8686
Fax: (801) 263-8687
e-mail: awal@awal-labs.com

web: www.awal-labs.com

Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

Lab Sample ID: 1303596-007B
Client Sample ID: North Boom / 4920397

Analyzed: 3/26/2013 1736h **Extracted:** 3/26/2013 756h
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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e-mail: awal@awal-labs.com

web: www.awal-labs.com

Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

Lab Sample ID: 1303596-007B
Client Sample ID: North Boom / 4920397

Analyzed: 3/26/2013 1736h **Extracted:** 3/26/2013 756h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8270D

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Methapyrilene	91-80-5	10.0	< 10.0	
Methyl methanesulfonate	66-27-3	10.0	< 10.0	
n-Decane	124-18-5	10.0	< 10.0	
N-Nitrosodi-n-butylamine	924-16-3	10.0	< 10.0	
N-Nitrosodiethylamine	55-18-5	10.0	< 10.0	
N-Nitrosodimethylamine	62-75-9	10.0	< 10.0	
N-Nitrosodiphenylamine	86-30-6	10.0	< 10.0	
N-Nitrosodi-n-propylamine	621-64-7	10.0	< 10.0	
N-Nitrosomethylethylamine	10595-95-6	10.0	< 10.0	
N-Nitrosomorpholine	59-89-2	10.0	< 10.0	
N-Nitrosopiperidine	100-75-4	10.0	< 10.0	
N-Nitrosopyrrolidine	930-55-2	10.0	< 10.0	
n-Octadecane	593-45-3	10.0	< 10.0	
Naphthalene	91-20-3	10.0	< 10.0	
Nitrobenzene	98-95-3	10.0	< 10.0	
Nitroquinoline-1-oxide	56-57-5	10.0	< 10.0	
O,O,O-Triethyl phosphorothioate	126-68-1	10.0	< 10.0	
o-Toluidine	95-53-4	10.0	< 10.0	
Parathion	56-38-2	10.0	< 10.0	
Methyl parathion	298-00-0	10.0	< 10.0	
Pentachlorobenzene	608-93-5	10.0	< 10.0	
Pentachloronitrobenzene	82-68-8	10.0	< 10.0	
Pentachlorophenol	87-86-5	10.0	< 10.0	
Phenacetin	62-44-2	10.0	< 10.0	
Phenanthrene	85-01-8	10.0	< 10.0	
Phenol	108-95-2	10.0	< 10.0	
Phorate	298-02-2	10.0	< 10.0	
Pronamide	23950-58-5	10.0	< 10.0	
Pyrene	129-00-0	10.0	< 10.0	
Pyridine	110-86-1	10.0	< 10.0	
Quinoline	91-22-5	10.0	< 10.0	
Safrole	94-59-7	10.0	< 10.0	
Tetraethyl dithiopyrophosphate	3689-24-5	10.0	< 10.0	
Thionazin	297-97-2	10.0	< 10.0	
TIC: 1(2H)-Naphthalenone, 3,4-di…	006939-35-1		5.24	JN
TIC: 1,3,5-Cycloheptatriene, 2,5…	1000156-99-5		6.50	JN
TIC: 1,3,5-Cycloheptatriene, 3,4…	1000156-99-7		7.87	JN

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

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Toll Free: (888) 263-8686
Fax: (801) 263-8687
e-mail: awal@awal-labs.com

web: www.awal-labs.com

Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

Lab Sample ID: 1303596-007B
Client Sample ID: North Boom / 4920397

Analyzed: 3/26/2013 1736h **Extracted:** 3/26/2013 756h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8270D

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
TIC: 2-Ethyl-1-H-indene	017059-50-6		5.84	JN
TIC: 5,8-Dimethyl-1,2,3,4-tetrah…	032820-12-5		7.36	JN
TIC: Benzene, 1-(1,1-dimethyleth…	006630-01-9		5.00	JN
TIC: Benzene, 1,2-diethyl-3,4-dimethyl-	054410-75-2		5.05	JN
TIC: Benzene, 1,3-bis(1-methylet…	000099-62-7		4.83	JN
TIC: Benzene, hexamethyl-	000087-85-4		6.20	JN

Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 2,4,6-Tribromophenol	118-79-6	63.6	80.00	79.5	14-159	
Surr: 2-Fluorobiphenyl	321-60-8	21.1	40.00	52.8	10-124	
Surr: 2-Fluorophenol	367-12-4	28.6	80.00	35.7	10-106	
Surr: Nitrobenzene-d5	4165-60-0	19.9	40.00	49.8	10-180	
Surr: Phenol-d6	13127-88-3	22.5	80.00	28.2	10-122	
Surr: Terphenyl-d14	1718-51-0	39.4	40.00	98.5	10-199	

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

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

ORGANIC ANALYTICAL REPORT

Client: Utah Division of Water Quality **Contact:** Chris Bittner
Project: MP 44.9 Incident
Lab Sample ID: 1303596-008B
Client Sample ID: Between Weirs / 4920394
Collection Date: 3/23/2013 1130h
Received Date: 3/23/2013 1410h

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

Analyzed: 3/26/2013 1803h **Extracted:** 3/26/2013 756h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8270D

463 West 3600 South
Salt Lake City, UT 84115

Phone: (801) 263-8686
Toll Free: (888) 263-8686
Fax: (801) 263-8687
e-mail: awal@awal-labs.com

web: www.awal-labs.com

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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463 West 3600 South
Salt Lake City, UT 84115

Phone: (801) 263-8686
Toll Free: (888) 263-8686
Fax: (801) 263-8687
e-mail: awal@awal-labs.com

web: www.awal-labs.com

Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

Lab Sample ID: 1303596-008B
Client Sample ID: Between Weirs / 4920394

Analyzed: 3/26/2013 1803h **Extracted:** 3/26/2013 756h
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: 1303596-008B
Client Sample ID: Between Weirs / 4920394

Analyzed: 3/26/2013 1803h **Extracted:** 3/26/2013 756h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8270D

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

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Laboratory Director

Jose Rocha
QA Officer

Lab Sample ID: 1303596-008B
Client Sample ID: Between Weirs / 4920394

Analyzed: 3/26/2013 1803h **Extracted:** 3/26/2013 756h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8270D

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Methapyrilene	91-80-5	10.0	< 10.0	
Methyl methanesulfonate	66-27-3	10.0	< 10.0	
n-Decane	124-18-5	10.0	< 10.0	
N-Nitrosodi-n-butylamine	924-16-3	10.0	< 10.0	
N-Nitrosodiethylamine	55-18-5	10.0	< 10.0	
N-Nitrosodimethylamine	62-75-9	10.0	< 10.0	
N-Nitrosodiphenylamine	86-30-6	10.0	< 10.0	
N-Nitrosodi-n-propylamine	621-64-7	10.0	< 10.0	
N-Nitrosomethylethylamine	10595-95-6	10.0	< 10.0	
N-Nitrosomorpholine	59-89-2	10.0	< 10.0	
N-Nitrosopiperidine	100-75-4	10.0	< 10.0	
N-Nitrosopyrrolidine	930-55-2	10.0	< 10.0	
n-Octadecane	593-45-3	10.0	< 10.0	
Naphthalene	91-20-3	10.0	< 10.0	
Nitrobenzene	98-95-3	10.0	< 10.0	
Nitroquinoline-1-oxide	56-57-5	10.0	< 10.0	
O,O,O-Triethyl phosphorothioate	126-68-1	10.0	< 10.0	
o-Toluidine	95-53-4	10.0	< 10.0	
Parathion	56-38-2	10.0	< 10.0	
Methyl parathion	298-00-0	10.0	< 10.0	
Pentachlorobenzene	608-93-5	10.0	< 10.0	
Pentachloronitrobenzene	82-68-8	10.0	< 10.0	
Pentachlorophenol	87-86-5	10.0	< 10.0	
Phenacetin	62-44-2	10.0	< 10.0	
Phenanthrene	85-01-8	10.0	< 10.0	
Phenol	108-95-2	10.0	< 10.0	
Phorate	298-02-2	10.0	< 10.0	
Pronamide	23950-58-5	10.0	< 10.0	
Pyrene	129-00-0	10.0	< 10.0	
Pyridine	110-86-1	10.0	< 10.0	
Quinoline	91-22-5	10.0	< 10.0	
Safrole	94-59-7	10.0	< 10.0	
Tetraethyl dithiopyrophosphate	3689-24-5	10.0	< 10.0	
Thionazin	297-97-2	10.0	< 10.0	
TIC: 1(2H)-Naphthalenone, 3,4-di…	006939-35-1		22.7	JN
TIC: 1,3,5-Cycloheptatriene, 3,4-diet…	1000156-99-7		30.2	JN
TIC: 2-Ethyl-1-H-indene	017059-50-6		29.1	JN

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Jose Rocha
QA Officer

Lab Sample ID: 1303596-008B
Client Sample ID: Between Weirs / 4920394

Analyzed: 3/26/2013 1803h **Extracted:** 3/26/2013 756h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8270D

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
TIC: 5,8-Dimethyl-1,2,3,4-tetrah…	032820-12-5		32.8	JN
TIC: Benzene, 1,2,3-trimethyl-	000526-73-8		24.1	JN
TIC: Benzene, 1,2,4-triethyl-	000877-44-1		44.0	JN
TIC: Benzene, 1,2,4-trimethyl-5-(1-me…	010222-95-4		60.3	JN
TIC: Benzene, 1,2-bis(1-methylet…	000577-55-9		24.0	JN
TIC: Benzene, hexamethyl-	000087-85-4		24.5	JN
TIC: Naphthalene, 1,2,3,4-tetrah…	001680-51-9		23.8	JN

Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 2,4,6-Tribromophenol	118-79-6	41.6	80.00	52.0	14-159	
Surr: 2-Fluorobiphenyl	321-60-8	10.9	40.00	27.3	10-124	
Surr: 2-Fluorophenol	367-12-4	24.6	80.00	30.8	10-106	
Surr: Nitrobenzene-d5	4165-60-0	15.9	40.00	39.8	10-180	
Surr: Phenol-d6	13127-88-3	19.8	80.00	24.7	10-122	
Surr: Terphenyl-d14	1718-51-0	34.2	40.00	85.4	10-199	

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

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ORGANIC ANALYTICAL REPORT

Client: Utah Division of Water Quality **Contact:** Chris Bittner
Project: MP 44.9 Incident
Lab Sample ID: 1303596-009B
Client Sample ID: Between Weirs Dup / 4920394
Collection Date: 3/23/2013 1230h
Received Date: 3/23/2013 1410h

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

Analyzed: 3/26/2013 1830h **Extracted:** 3/26/2013 756h
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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Analyzed: 3/26/2013 1830h **Extracted:** 3/26/2013 756h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8270D

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

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Analyzed: 3/26/2013 1830h **Extracted:** 3/26/2013 756h
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	**15.4**	
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.

463 West 3600 South
Salt Lake City, UT 84115

Phone: (801) 263-8686
Toll Free: (888) 263-8686
Fax: (801) 263-8687
e-mail: awal@awal-labs.com

web: www.awal-labs.com

Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

Lab Sample ID: 1303596-009B
Client Sample ID: Between Weirs Dup / 4920394

Analyzed: 3/26/2013 1830h **Extracted:** 3/26/2013 756h
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	**34.8**	
Naphthalene	91-20-3	10.0	< 10.0	
Nitrobenzene	98-95-3	10.0	< 10.0	
Nitroquinoline-1-oxide	56-57-5	10.0	< 10.0	
O,O,O-Triethyl phosphorothioate	126-68-1	10.0	< 10.0	
o-Toluidine	95-53-4	10.0	< 10.0	
Parathion	56-38-2	10.0	< 10.0	
Methyl parathion	298-00-0	10.0	< 10.0	
Pentachlorobenzene	608-93-5	10.0	< 10.0	
Pentachloronitrobenzene	82-68-8	10.0	< 10.0	
Pentachlorophenol	87-86-5	10.0	< 10.0	
Phenacetin	62-44-2	10.0	< 10.0	
Phenanthrene	85-01-8	10.0	< 10.0	
Phenol	108-95-2	10.0	< 10.0	
Phorate	298-02-2	10.0	< 10.0	
Pronamide	23950-58-5	10.0	< 10.0	
Pyrene	129-00-0	10.0	< 10.0	
Pyridine	110-86-1	10.0	< 10.0	
Quinoline	91-22-5	10.0	< 10.0	
Safrole	94-59-7	10.0	< 10.0	
Tetraethyl dithiopyrophosphate	3689-24-5	10.0	< 10.0	
Thionazin	297-97-2	10.0	< 10.0	
TIC: 1(2H)-Naphthalenone, 3,4-di…	006939-35-1		23.3	JN
TIC: 1H-Indene, 1,1-dimethyl-	018636-55-0		27.7	JN
TIC: 5,8-Dimethyl-1,2,3,4-tetrah…	032820-12-5		29.5	JN

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Salt Lake City, UT 84115

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Toll Free: (888) 263-8686
Fax: (801) 263-8687
e-mail: awal@awal-labs.com

web: www.awal-labs.com

Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

Lab Sample ID: 1303596-009B
Client Sample ID: Between Weirs Dup / 4920394

Analyzed: 3/26/2013 1830h **Extracted:** 3/26/2013 756h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8270D

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
TIC: Benzene, 1,2,4-triethyl-	000877-44-1		44.7	JN
TIC: Benzene, hexamethyl-	000087-85-4		23.8	JN
TIC: Benzoic acid, 4-propyl-, 4-cyano…	086776-51-4		54.1	JN
TIC: Eicosane	000112-95-8		31.7	JN
TIC: Heneicosane	000629-94-7		24.0	JN
TIC: Heptadecane	000629-78-7		73.1	JN
TIC: Nonadecane	000629-92-5		39.3	JN

Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 2,4,6-Tribromophenol	118-79-6	44.8	80.00	56.0	14-159	
Surr: 2-Fluorobiphenyl	321-60-8	9.50	40.00	23.8	10-124	
Surr: 2-Fluorophenol	367-12-4	18.8	80.00	23.4	10-106	
Surr: Nitrobenzene-d5	4165-60-0	9.71	40.00	24.3	10-180	
Surr: Phenol-d6	13127-88-3	16.7	80.00	20.9	10-122	
Surr: Terphenyl-d14	1718-51-0	36.2	40.00	90.4	10-199	

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

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ORGANIC ANALYTICAL REPORT

Client: Utah Division of Water Quality **Contact:** Chris Bittner
Project: MP 44.9 Incident
Lab Sample ID: 1303596-001A
Client Sample ID: East of I-15 / 4920392
Collection Date: 3/23/2013 900h
Received Date: 3/23/2013 1410h

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

Analyzed: 3/24/2013 733h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8260C

463 West 3600 South
Salt Lake City, UT 84115

Phone: (801) 263-8686
Toll Free: (888) 263-8686
Fax: (801) 263-8687
e-mail: awal@awal-labs.com

web: www.awal-labs.com

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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American West
ANALYTICAL LABORATORIES

463 West 3600 South
Salt Lake City, UT 84115

Phone: (801) 263-8686
Toll Free: (888) 263-8686
Fax: (801) 263-8687
e-mail: awal@awal-labs.com

web: www.awal-labs.com

Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

Lab Sample ID: 1303596-001A
Client Sample ID: East of I-15 / 4920392

Analyzed: 3/24/2013 733h
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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Salt Lake City, UT 84115

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Toll Free: (888) 263-8686
Fax: (801) 263-8687
e-mail: awal@awal-labs.com

web: www.awal-labs.com

Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

Lab Sample ID: 1303596-001A
Client Sample ID: East of I-15 / 4920392

Analyzed: 3/24/2013 733h
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: 1303596-001A
Client Sample ID: East of I-15 / 4920392

Analyzed: 3/24/2013 733h
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	54.4	50.00	109	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	52.6	50.00	105	80-128	
Surr: Dibromofluoromethane	1868-53-7	51.8	50.00	104	80-124	
Surr: Toluene-d8	2037-26-5	50.2	50.00	101	77-129	

463 West 3600 South
Salt Lake City, UT 84115

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Toll Free: (888) 263-8686
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web: www.awal-labs.com

Kyle F. Gross
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ORGANIC ANALYTICAL REPORT

Client: Utah Division of Water Quality **Contact:** Chris Bittner
Project: MP 44.9 Incident
Lab Sample ID: 1303596-002A
Client Sample ID: South Marina / 4920495
Collection Date: 3/23/2013 1000h
Received Date: 3/23/2013 1410h

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

Analyzed: 3/24/2013 752h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8260C

463 West 3600 South
Salt Lake City, UT 84115

Phone: (801) 263-8686
Toll Free: (888) 263-8686
Fax: (801) 263-8687
e-mail: awal@awal-labs.com

web: www.awal-labs.com

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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American West
ANALYTICAL LABORATORIES

463 West 3600 South
Salt Lake City, UT 84115

Phone: (801) 263-8686
Toll Free: (888) 263-8686
Fax: (801) 263-8687
e-mail: awal@awal-labs.com

web: www.awal-labs.com

Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

Lab Sample ID: 1303596-002A
Client Sample ID: South Marina / 4920495

Analyzed: 3/24/2013 752h
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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web: www.awal-labs.com

Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

Lab Sample ID: 1303596-002A
Client Sample ID: South Marina / 4920495

Analyzed: 3/24/2013 752h
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: 1303596-002A
Client Sample ID: South Marina / 4920495

Analyzed: 3/24/2013 752h
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	54.5	50.00	109	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	51.8	50.00	104	80-128	
Surr: Dibromofluoromethane	1868-53-7	51.6	50.00	103	80-124	
Surr: Toluene-d8	2037-26-5	49.6	50.00	99.1	77-129	

463 West 3600 South
Salt Lake City, UT 84115

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Fax: (801) 263-8687
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web: www.awal-labs.com

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 Incident
Lab Sample ID: 1303596-003A
Client Sample ID: Field Blank
Collection Date: 3/23/2013 1030h
Received Date: 3/23/2013 1410h

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

Analyzed: 3/24/2013 811h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8260C

463 West 3600 South
Salt Lake City, UT 84115

Phone: (801) 263-8686
Toll Free: (888) 263-8686
Fax: (801) 263-8687
e-mail: awal@awal-labs.com

web: www.awal-labs.com

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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web: www.awal-labs.com

Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

Lab Sample ID: 1303596-003A
Client Sample ID: Field Blank

Analyzed: 3/24/2013 811h
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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e-mail: awal@awal-labs.com

web: www.awal-labs.com

Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

Lab Sample ID: 1303596-003A
Client Sample ID: Field Blank

Analyzed: 3/24/2013 811h
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: 1303596-003A
Client Sample ID: Field Blank

Analyzed: 3/24/2013 811h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8260C

Compound	CAS Number	Reporting Limit	Analytical Result	Qual

Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	55.0	50.00	110	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	52.6	50.00	105	80-128	
Surr: Dibromofluoromethane	1868-53-7	51.7	50.00	103	80-124	
Surr: Toluene-d8	2037-26-5	49.7	50.00	99.5	77-129	

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Salt Lake City, UT 84115

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web: www.awal-labs.com

Kyle F. Gross
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Jose Rocha
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ORGANIC ANALYTICAL REPORT

Client: Utah Division of Water Quality **Contact:** Chris Bittner
Project: MP 44.9 Incident
Lab Sample ID: 1303596-004A
Client Sample ID: Trip Blank
Collection Date: 3/23/2013
Received Date: 3/23/2013 1410h

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

Analyzed: 3/24/2013 830h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8260C

463 West 3600 South
Salt Lake City, UT 84115

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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	< 2.00	
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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American West
ANALYTICAL LABORATORIES

463 West 3600 South
Salt Lake City, UT 84115

Phone: (801) 263-8686
Toll Free: (888) 263-8686
Fax: (801) 263-8687
e-mail: awal@awal-labs.com

web: www.awal-labs.com

Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

Lab Sample ID: 1303596-004A
Client Sample ID: Trip Blank

Analyzed: 3/24/2013 830h
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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e-mail: awal@awal-labs.com

web: www.awal-labs.com

Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

Lab Sample ID: 1303596-004A
Client Sample ID: Trip Blank

Analyzed: 3/24/2013 830h
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: 1303596-004A
Client Sample ID: Trip Blank

Analyzed: 3/24/2013 830h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8260C

Compound	CAS Number	Reporting Limit	Analytical Result	Qual

Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	55.0	50.00	110	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	50.9	50.00	102	80-128	
Surr: Dibromofluoromethane	1868-53-7	51.6	50.00	103	80-124	
Surr: Toluene-d8	2037-26-5	49.7	50.00	99.4	77-129	

463 West 3600 South
Salt Lake City, UT 84115

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web: www.awal-labs.com

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 Incident
Lab Sample ID: 1303596-005A
Client Sample ID: West Boom / 4920396
Collection Date: 3/23/2013 1045h
Received Date: 3/23/2013 1410h

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

Analyzed: 3/24/2013 849h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8260C

463 West 3600 South
Salt Lake City, UT 84115

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e-mail: awal@awal-labs.com

web: www.awal-labs.com

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	**8.93**	
1,2,4-Trichlorobenzene	120-82-1	2.00	< 2.00	
1,2,4-Trimethylbenzene	95-63-6	2.00	**18.4**	
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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web: www.awal-labs.com

Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

Lab Sample ID: 1303596-005A
Client Sample ID: West Boom / 4920396

Analyzed: 3/24/2013 849h
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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web: www.awal-labs.com

Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

Lab Sample ID: 1303596-005A
Client Sample ID: West Boom / 4920396

Analyzed: 3/24/2013 849h
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	**6.54**	
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	**3.46**	
o-Xylene	95-47-6	2.00	**2.60**	
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	**9.14**	

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Lab Sample ID: 1303596-005A
Client Sample ID: West Boom / 4920396

Analyzed: 3/24/2013 849h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8260C

Compound	CAS Number	Reporting Limit	Analytical Result	Qual

Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	55.4	50.00	111	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	49.0	50.00	98.0	80-128	
Surr: Dibromofluoromethane	1868-53-7	52.2	50.00	104	80-124	
Surr: Toluene-d8	2037-26-5	50.0	50.00	99.9	77-129	

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Salt Lake City, UT 84115

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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 Incident
Lab Sample ID: 1303596-006A
Client Sample ID: East Boom / 4920395
Collection Date: 3/23/2013 1100h
Received Date: 3/23/2013 1410h

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

Analyzed: 3/24/2013 908h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8260C

463 West 3600 South
Salt Lake City, UT 84115

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web: www.awal-labs.com

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	**5.92**	
1,2,4-Trichlorobenzene	120-82-1	2.00	< 2.00	
1,2,4-Trimethylbenzene	95-63-6	2.00	**12.0**	
1,2-Dibromo-3-chloropropane	96-12-8	5.00	< 5.00	
1,2-Dibromoethane	106-93-4	2.00	< 2.00	
1,2-Dichlorobenzene	95-50-1	2.00	< 2.00	
1,2-Dichloroethane	107-06-2	2.00	< 2.00	
1,2-Dichloropropane	78-87-5	2.00	< 2.00	
1,3,5-Trimethylbenzene	108-67-8	2.00	< 2.00	
1,3-Dichlorobenzene	541-73-1	2.00	< 2.00	
1,3-Dichloropropane	142-28-9	2.00	< 2.00	
1,4-Dichlorobenzene	106-46-7	2.00	< 2.00	
1,4-Dioxane	123-91-1	50.0	< 50.0	
2,2-Dichloropropane	594-20-7	2.00	< 2.00	
2-Butanone	78-93-3	10.0	< 10.0	
2-Chloroethyl vinyl ether	110-75-8	5.00	< 5.00	
2-Chlorotoluene	95-49-8	2.00	< 2.00	
2-Hexanone	591-78-6	5.00	< 5.00	
2-Nitropropane	79-46-9	5.00	< 5.00	
4-Chlorotoluene	106-43-4	2.00	< 2.00	

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American West
ANALYTICAL LABORATORIES

463 West 3600 South
Salt Lake City, UT 84115

Phone: (801) 263-8686
Toll Free: (888) 263-8686
Fax: (801) 263-8687
e-mail: awal@awal-labs.com

web: www.awal-labs.com

Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

Lab Sample ID: 1303596-006A
Client Sample ID: East Boom / 4920395

Analyzed: 3/24/2013 908h
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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web: www.awal-labs.com

Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

Lab Sample ID: 1303596-006A
Client Sample ID: East Boom / 4920395

Analyzed: 3/24/2013 908h
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	**4.56**	
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	**2.25**	
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	**6.40**	

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Lab Sample ID: 1303596-006A
Client Sample ID: East Boom / 4920395

Analyzed: 3/24/2013 908h
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	50.8	50.00	102	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	51.0	50.00	102	80-128	
Surr: Dibromofluoromethane	1868-53-7	50.3	50.00	101	80-124	
Surr: Toluene-d8	2037-26-5	51.6	50.00	103	77-129	

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web: www.awal-labs.com

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 Incident
Lab Sample ID: 1303596-007A
Client Sample ID: North Boom / 4920397
Collection Date: 3/23/2013 1115h
Received Date: 3/23/2013 1410h

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

Analyzed: 3/24/2013 927h
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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Salt Lake City, UT 84115

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Jose Rocha
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web: www.awal-labs.com

Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

Lab Sample ID: 1303596-007A
Client Sample ID: North Boom / 4920397

Analyzed: 3/24/2013 927h
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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web: www.awal-labs.com

Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

Lab Sample ID: 1303596-007A
Client Sample ID: North Boom / 4920397

Analyzed: 3/24/2013 927h
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: 1303596-007A
Client Sample ID: North Boom / 4920397

Analyzed: 3/24/2013 927h
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	48.5	50.00	96.9	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	51.9	50.00	104	80-128	
Surr: Dibromofluoromethane	1868-53-7	48.8	50.00	97.7	80-124	
Surr: Toluene-d8	2037-26-5	51.1	50.00	102	77-129	

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ORGANIC ANALYTICAL REPORT

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web: www.awal-labs.com

Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

Client: Utah Division of Water Quality **Contact:** Chris Bittner
Project: MP 44.9 Incident
Lab Sample ID: 1303596-008A
Client Sample ID: Between Weirs / 4920394
Collection Date: 3/23/2013 1130h
Received Date: 3/23/2013 1410h

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

Analyzed: 3/24/2013 1037h
Units: µg/L **Dilution Factor:** 10 **Method:** SW8260C

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
1,1,1,2-Tetrachloroethane	630-20-6	20.0	< 20.0	
1,1,1-Trichloroethane	71-55-6	20.0	< 20.0	
1,1,2,2-Tetrachloroethane	79-34-5	20.0	< 20.0	
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	20.0	< 20.0	
1,1,2-Trichloroethane	79-00-5	20.0	< 20.0	
1,1-Dichloropropene	563-58-6	20.0	< 20.0	
1,1-Dichloroethane	75-34-3	20.0	< 20.0	
1,1-Dichloroethene	75-35-4	20.0	< 20.0	
1,2,3-Trichlorobenzene	87-61-6	20.0	< 20.0	
1,2,3-Trichloropropane	96-18-4	20.0	< 20.0	
1,2,3-Trimethylbenzene	526-73-8	20.0	< 20.0	
1,2,4-Trichlorobenzene	120-82-1	20.0	< 20.0	
1,2,4-Trimethylbenzene	95-63-6	20.0	**32.5**	
1,2-Dibromo-3-chloropropane	96-12-8	50.0	< 50.0	
1,2-Dibromoethane	106-93-4	20.0	< 20.0	
1,2-Dichlorobenzene	95-50-1	20.0	< 20.0	
1,2-Dichloroethane	107-06-2	20.0	< 20.0	
1,2-Dichloropropane	78-87-5	20.0	< 20.0	
1,3,5-Trimethylbenzene	108-67-8	20.0	< 20.0	
1,3-Dichlorobenzene	541-73-1	20.0	< 20.0	
1,3-Dichloropropane	142-28-9	20.0	< 20.0	
1,4-Dichlorobenzene	106-46-7	20.0	< 20.0	
1,4-Dioxane	123-91-1	500	< 500	
2,2-Dichloropropane	594-20-7	20.0	< 20.0	
2-Butanone	78-93-3	100	< 100	
2-Chloroethyl vinyl ether	110-75-8	50.0	< 50.0	
2-Chlorotoluene	95-49-8	20.0	< 20.0	
2-Hexanone	591-78-6	50.0	< 50.0	
2-Nitropropane	79-46-9	50.0	< 50.0	
4-Chlorotoluene	106-43-4	20.0	< 20.0	

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American West
ANALYTICAL LABORATORIES

463 West 3600 South
Salt Lake City, UT 84115

Phone: (801) 263-8686
Toll Free: (888) 263-8686
Fax: (801) 263-8687
e-mail: awal@awal-labs.com

web: www.awal-labs.com

Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

Lab Sample ID: 1303596-008A
Client Sample ID: Between Weirs / 4920394

Analyzed: 3/24/2013 1037h
Units: µg/L **Dilution Factor:** 10 **Method:** SW8260C

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
4-Isopropyltoluene	99-87-6	20.0	< 20.0	
4-Methyl-2-pentanone	108-10-1	50.0	< 50.0	
Acetone	67-64-1	100	< 100	
Acetonitrile	75-05-8	50.0	< 50.0	
Acrolein	107-02-8	50.0	< 50.0	
Acrylonitrile	107-13-1	100	< 100	
Allyl chloride	107-05-1	50.0	< 50.0	
Benzene	71-43-2	20.0	< 20.0	
Benzyl chloride	100-44-7	50.0	< 50.0	
Bis(2-chloroisopropyl) ether	108-60-1	50.0	< 50.0	
Bromobenzene	108-86-1	20.0	< 20.0	
Bromochloromethane	74-97-5	20.0	< 20.0	
Bromodichloromethane	75-27-4	20.0	< 20.0	
Bromoform	75-25-2	20.0	< 20.0	
Bromomethane	74-83-9	50.0	< 50.0	
Butyl acetate	123-86-4	100	< 100	
Carbon disulfide	75-15-0	20.0	< 20.0	
Carbon tetrachloride	56-23-5	20.0	< 20.0	
Chlorobenzene	108-90-7	20.0	< 20.0	
Chloroethane	75-00-3	20.0	< 20.0	
Chloroform	67-66-3	20.0	< 20.0	
Chloromethane	74-87-3	30.0	< 30.0	
Chloroprene	126-99-8	20.0	< 20.0	
cis-1,2-Dichloroethene	156-59-2	20.0	< 20.0	
cis-1,3-Dichloropropene	10061-01-5	20.0	< 20.0	
Cyclohexane	110-82-7	20.0	< 20.0	
Cyclohexanone	108-94-1	500	< 500	
Dibromochloromethane	124-48-1	20.0	< 20.0	
Dibromomethane	74-95-3	20.0	< 20.0	
Dichlorodifluoromethane	75-71-8	20.0	< 20.0	
Ethyl acetate	141-78-6	100	< 100	
Ethyl ether	60-29-7	100	< 100	
Ethyl methacrylate	97-63-2	20.0	< 20.0	
Ethylbenzene	100-41-4	20.0	< 20.0	
Hexachlorobutadiene	87-68-3	20.0	< 20.0	
Iodomethane	74-88-4	50.0	< 50.0	
Isobutyl alcohol	78-83-1	1,000	< 1,000	

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Laboratory Director

Jose Rocha
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Lab Sample ID: 1303596-008A
Client Sample ID: Between Weirs / 4920394

Analyzed: 3/24/2013 1037h
Units: µg/L **Dilution Factor:** 10 **Method:** SW8260C

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Isopropyl acetate	108-21-4	100	< 100	
Isopropyl alcohol	67-63-0	400	< 400	
Isopropylbenzene	98-82-8	20.0	< 20.0	
m,p-Xylene	179601-23-1	20.0	< 20.0	
Methacrylonitrile	126-98-7	50.0	< 50.0	
Methyl Acetate	79-20-9	50.0	< 50.0	
Methyl methacrylate	80-62-6	50.0	< 50.0	
Methyl tert-butyl ether	1634-04-4	20.0	< 20.0	
Methylcyclohexane	108-87-2	20.0	< 20.0	
Methylene chloride	75-09-2	20.0	< 20.0	
n-Amyl acetate	628-63-7	100	< 100	
n-Butyl alcohol	71-36-3	1,000	< 1,000	
n-Butylbenzene	104-51-8	20.0	< 20.0	
n-Hexane	110-54-3	20.0	< 20.0	
n-Octane	111-65-9	20.0	< 20.0	
n-Propylbenzene	103-65-1	20.0	< 20.0	
Naphthalene	91-20-3	20.0	< 20.0	
o-Xylene	95-47-6	20.0	< 20.0	
Pentachloroethane	76-01-7	50.0	< 50.0	
Propionitrile	107-12-0	250	< 250	
Propyl acetate	109-60-4	100	< 100	
sec-Butylbenzene	135-98-8	20.0	< 20.0	
Styrene	100-42-5	20.0	< 20.0	
tert-Butyl alcohol	76-65-0	200	< 200	
tert-Butylbenzene	98-06-6	20.0	< 20.0	
Tetrachloroethene	127-18-4	20.0	< 20.0	
Tetrahydrofuran	109-99-9	20.0	< 20.0	
Toluene	108-88-3	20.0	< 20.0	
trans-1,2-Dichloroethene	156-60-5	20.0	< 20.0	
trans-1,3-Dichloropropene	10061-02-6	20.0	< 20.0	
trans-1,4-Dichloro-2-butene	110-57-6	20.0	< 20.0	
Trichloroethene	79-01-6	20.0	< 20.0	
Trichlorofluoromethane	75-69-4	20.0	< 20.0	
Vinyl acetate	108-05-4	100	< 100	
Vinyl chloride	75-01-4	10.0	< 10.0	
Xylenes, Total	1330-20-7	20.0	< 20.0	

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Lab Sample ID: 1303596-008A

Client Sample ID: Between Weirs / 4920394

Analyzed: 3/24/2013 1037h

Units: µg/L **Dilution Factor:** 10 **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	467	500.0	93.5	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	548	500.0	110	80-128	
Surr: Dibromofluoromethane	1868-53-7	495	500.0	99.0	80-124	
Surr: Toluene-d8	2037-26-5	530	500.0	106	77-129	

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

463 West 3600 South
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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 Incident
Lab Sample ID: 1303596-009A
Client Sample ID: Between Weirs Dup / 4920394
Collection Date: 3/23/2013 1230h
Received Date: 3/23/2013 1410h

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

Analyzed: 3/24/2013 1056h
Units: µg/L **Dilution Factor:** 10 **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	20.0	< 20.0	
1,1,1-Trichloroethane	71-55-6	20.0	< 20.0	
1,1,2,2-Tetrachloroethane	79-34-5	20.0	< 20.0	
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	20.0	< 20.0	
1,1,2-Trichloroethane	79-00-5	20.0	< 20.0	
1,1-Dichloropropene	563-58-6	20.0	< 20.0	
1,1-Dichloroethane	75-34-3	20.0	< 20.0	
1,1-Dichloroethene	75-35-4	20.0	< 20.0	
1,2,3-Trichlorobenzene	87-61-6	20.0	< 20.0	
1,2,3-Trichloropropane	96-18-4	20.0	< 20.0	
1,2,3-Trimethylbenzene	526-73-8	20.0	< 20.0	
1,2,4-Trichlorobenzene	120-82-1	20.0	< 20.0	
1,2,4-Trimethylbenzene	95-63-6	20.0	**37.8**	
1,2-Dibromo-3-chloropropane	96-12-8	50.0	< 50.0	
1,2-Dibromoethane	106-93-4	20.0	< 20.0	
1,2-Dichlorobenzene	95-50-1	20.0	< 20.0	
1,2-Dichloroethane	107-06-2	20.0	< 20.0	
1,2-Dichloropropane	78-87-5	20.0	< 20.0	
1,3,5-Trimethylbenzene	108-67-8	20.0	< 20.0	
1,3-Dichlorobenzene	541-73-1	20.0	< 20.0	
1,3-Dichloropropane	142-28-9	20.0	< 20.0	
1,4-Dichlorobenzene	106-46-7	20.0	< 20.0	
1,4-Dioxane	123-91-1	500	< 500	
2,2-Dichloropropane	594-20-7	20.0	< 20.0	
2-Butanone	78-93-3	100	< 100	
2-Chloroethyl vinyl ether	110-75-8	50.0	< 50.0	
2-Chlorotoluene	95-49-8	20.0	< 20.0	
2-Hexanone	591-78-6	50.0	< 50.0	
2-Nitropropane	79-46-9	50.0	< 50.0	
4-Chlorotoluene	106-43-4	20.0	< 20.0	

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QA Officer

Lab Sample ID: 1303596-009A
Client Sample ID: Between Weirs Dup / 4920394

Analyzed: 3/24/2013 1056h
Units: µg/L **Dilution Factor:** 10 **Method:** SW8260C

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
4-Isopropyltoluene	99-87-6	20.0	< 20.0	
4-Methyl-2-pentanone	108-10-1	50.0	< 50.0	
Acetone	67-64-1	100	< 100	
Acetonitrile	75-05-8	50.0	< 50.0	
Acrolein	107-02-8	50.0	< 50.0	
Acrylonitrile	107-13-1	100	< 100	
Allyl chloride	107-05-1	50.0	< 50.0	
Benzene	71-43-2	20.0	< 20.0	
Benzyl chloride	100-44-7	50.0	< 50.0	
Bis(2-chloroisopropyl) ether	108-60-1	50.0	< 50.0	
Bromobenzene	108-86-1	20.0	< 20.0	
Bromochloromethane	74-97-5	20.0	< 20.0	
Bromodichloromethane	75-27-4	20.0	< 20.0	
Bromoform	75-25-2	20.0	< 20.0	
Bromomethane	74-83-9	50.0	< 50.0	
Butyl acetate	123-86-4	100	< 100	
Carbon disulfide	75-15-0	20.0	< 20.0	
Carbon tetrachloride	56-23-5	20.0	< 20.0	
Chlorobenzene	108-90-7	20.0	< 20.0	
Chloroethane	75-00-3	20.0	< 20.0	
Chloroform	67-66-3	20.0	< 20.0	
Chloromethane	74-87-3	30.0	< 30.0	
Chloroprene	126-99-8	20.0	< 20.0	
cis-1,2-Dichloroethene	156-59-2	20.0	< 20.0	
cis-1,3-Dichloropropene	10061-01-5	20.0	< 20.0	
Cyclohexane	110-82-7	20.0	< 20.0	
Cyclohexanone	108-94-1	500	< 500	
Dibromochloromethane	124-48-1	20.0	< 20.0	
Dibromomethane	74-95-3	20.0	< 20.0	
Dichlorodifluoromethane	75-71-8	20.0	< 20.0	
Ethyl acetate	141-78-6	100	< 100	
Ethyl ether	60-29-7	100	< 100	
Ethyl methacrylate	97-63-2	20.0	< 20.0	
Ethylbenzene	100-41-4	20.0	< 20.0	
Hexachlorobutadiene	87-68-3	20.0	< 20.0	
Iodomethane	74-88-4	50.0	< 50.0	
Isobutyl alcohol	78-83-1	1,000	< 1,000	

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Lab Sample ID: 1303596-009A
Client Sample ID: Between Weirs Dup / 4920394

Analyzed: 3/24/2013 1056h
Units: µg/L **Dilution Factor:** 10 **Method:** SW8260C

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Isopropyl acetate	108-21-4	100	< 100	
Isopropyl alcohol	67-63-0	400	< 400	
Isopropylbenzene	98-82-8	20.0	< 20.0	
m,p-Xylene	179601-23-1	20.0	< 20.0	
Methacrylonitrile	126-98-7	50.0	< 50.0	
Methyl Acetate	79-20-9	50.0	< 50.0	
Methyl methacrylate	80-62-6	50.0	< 50.0	
Methyl tert-butyl ether	1634-04-4	20.0	< 20.0	
Methylcyclohexane	108-87-2	20.0	< 20.0	
Methylene chloride	75-09-2	20.0	< 20.0	
n-Amyl acetate	628-63-7	100	< 100	
n-Butyl alcohol	71-36-3	1,000	< 1,000	
n-Butylbenzene	104-51-8	20.0	< 20.0	
n-Hexane	110-54-3	20.0	< 20.0	
n-Octane	111-65-9	20.0	< 20.0	
n-Propylbenzene	103-65-1	20.0	< 20.0	
Naphthalene	91-20-3	20.0	< 20.0	
o-Xylene	95-47-6	20.0	< 20.0	
Pentachloroethane	76-01-7	50.0	< 50.0	
Propionitrile	107-12-0	250	< 250	
Propyl acetate	109-60-4	100	< 100	
sec-Butylbenzene	135-98-8	20.0	< 20.0	
Styrene	100-42-5	20.0	< 20.0	
tert-Butyl alcohol	76-65-0	200	< 200	
tert-Butylbenzene	98-06-6	20.0	< 20.0	
Tetrachloroethene	127-18-4	20.0	< 20.0	
Tetrahydrofuran	109-99-9	20.0	< 20.0	
Toluene	108-88-3	20.0	< 20.0	
trans-1,2-Dichloroethene	156-60-5	20.0	< 20.0	
trans-1,3-Dichloropropene	10061-02-6	20.0	< 20.0	
trans-1,4-Dichloro-2-butene	110-57-6	20.0	< 20.0	
Trichloroethene	79-01-6	20.0	< 20.0	
Trichlorofluoromethane	75-69-4	20.0	< 20.0	
Vinyl acetate	108-05-4	100	< 100	
Vinyl chloride	75-01-4	10.0	< 10.0	
Xylenes, Total	1330-20-7	20.0	< 20.0	

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Lab Sample ID: 1303596-009A

Client Sample ID: Between Weirs Dup / 4920394

Analyzed: 3/24/2013 1056h

Units: µg/L **Dilution Factor:** 10 **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	486	500.0	97.3	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	500	500.0	99.9	80-128	
Surr: Dibromofluoromethane	1868-53-7	482	500.0	96.5	80-124	
Surr: Toluene-d8	2037-26-5	504	500.0	101	77-129	

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

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Laboratory Director

Jose Rocha
QA Officer

QC SUMMARY REPORT

Client: Utah Division of Water Quality
Lab Set ID: 1303596
Project: MP 44.9 Incident

Contact: Chris Bittner
Dept: WC
QC Type: LCS

Sample ID	Analyte	Units	Method	Result	Amount Spiked	Original Amount	%REC	Limits	%RPD	RPD Limit	Qual	Date Analyzed
LCS1-R51886	Chemical Oxygen Demand	mg/L	HACH 8000	323	300.0	0	108	85-115				3/25/2013 1100h
LCS2-R51886	Chemical Oxygen Demand	mg/L	HACH 8000	102	100.0	0	102	85-115				3/25/2013 1100h
LCS3-R51886	Chemical Oxygen Demand	mg/L	HACH 8000	9.00	10.00	0	90.0	85-115				3/25/2013 1100h
LCS-R51886	Chemical Oxygen Demand	mg/L	HACH 8000	1,040	1,000	0	104	85-115				3/25/2013 1100h

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QC SUMMARY REPORT

Client: Utah Division of Water Quality
Lab Set ID: 1303596
Project: MP 44.9 Incident

Contact: Chris Bittner
Dept: WC
QC Type: MBLK

Sample ID	Analyte	Units	Method	Result	Amount Spiked	Original Amount	%REC	Limits	%RPD	RPD Limit	Qual	Date Analyzed
MB-R51886	Chemical Oxygen Demand	mg/L	HACH 8000	< 10.0				-				3/25/2013 1100h

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463 West 3600 South
Salt Lake City, UT 84115
Phone: (801) 263-8686, Toll Free: (888) 263-8686, Fax: (801) 263-8687
e-mail: awal@awal-labs.com, web: www.awal-labs.com

Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

QC SUMMARY REPORT

Client: Utah Division of Water Quality
Lab Set ID: 1303596
Project: MP 44.9 Incident

Contact: Chris Bittner
Dept: WC
QC Type: MS

Sample ID	Analyte	Units	Method	Result	Amount Spiked	Original Amount	%REC	Limits	%RPD	RPD Limit	Qual	Date Analyzed
1303562-003EMS	Chemical Oxygen Demand	mg/L	HACH 8000	67.0	50.00	21.00	92.0	85-115				3/25/2013 1100h
1303596-009EMS	Chemical Oxygen Demand	mg/L	HACH 8000	79.0	50.00	19.00	120	85-115			[1]	3/25/2013 1100h

[1] - Matrix spike recovery indicates matrix interference. The method is in control as indicated by the LCS.

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QC SUMMARY REPORT

Client: Utah Division of Water Quality
Lab Set ID: 1303596
Project: MP 44.9 Incident

Contact: Chris Bittner
Dept: WC
QC Type: MSD

Sample ID	Analyte	Units	Method	Result	Amount Spiked	Original Amount	%REC	Limits	%RPD	RPD Limit	Qual	Date Analyzed
1303562-003EMSD	Chemical Oxygen Demand	mg/L	HACH 8000	67.0	50.00	21.00	92.0	85-115	0	10		3/25/2013 1100h
1303596-009EMSD	Chemical Oxygen Demand	mg/L	HACH 8000	75.0	50.00	19.00	112	85-115	5.19	10		3/25/2013 1100h

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QC SUMMARY REPORT

Client: Utah Division of Water Quality
Lab Set ID: 1303596
Project: MP 44.9 Incident

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-24323	Oil Range Organics (ORO) (C28-C36)	mg/L	SW8015D	0.790	0.9000	0	87.8	10-200				3/24/2013 1733h
LCS-24323	Surr: C27	%REC	SW8015D	0.220	0.2000		110	10-200				3/24/2013 1733h
LCS-24314	Diesel Range Organics (DRO) (C10-C28)	mg/L	SW8015D	1.39	2.000	0	69.4	48-118				3/23/2013 1415h
LCS-24314	Surr: 4-Bromofluorobenzene	%REC	SW8015D	0.170	0.4000		42.6	18-95				3/23/2013 1415h

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QC SUMMARY REPORT

Client: Utah Division of Water Quality
Lab Set ID: 1303596
Project: MP 44.9 Incident

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-24323	Oil Range Organics (ORO) (C28-C36)	mg/L	SW8015D	< 0.500				-				3/24/2013 1709h
MB-24323	Surr: C27	%REC	SW8015D	0.200	0.2000		100	10-200				3/24/2013 1709h
MB-24314	Diesel Range Organics (DRO) (C10-C28)	mg/L	SW8015D	< 0.500				-				3/23/2013 1355h
MB-24314	Surr: 4-Bromofluorobenzene	%REC	SW8015D	0.120	0.4000		30.0	18-95				3/23/2013 1355h

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QC SUMMARY REPORT

Client: Utah Division of Water Quality
Lab Set ID: 1303596
Project: MP 44.9 Incident

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
1303513-002DMS	Oil Range Organics (ORO) (C28-C36)	mg/L	SW8015D	0.730	0.9000	0	81.1	10-200				3/24/2013 1844h
1303513-002DMS	Surr: C27	%REC	SW8015D	0.210	0.2000		105	10-200				3/24/2013 1844h
1303562-001CMS	Diesel Range Organics (DRO) (C10-C28)	mg/L	SW8015D	1.57	2.000	0	78.5	60-161				3/23/2013 1453h
1303562-001CMS	Surr: 4-Bromofluorobenzene	%REC	SW8015D	0.219	0.4000		54.6	10-190				3/23/2013 1453h

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QC SUMMARY REPORT

Client: Utah Division of Water Quality
Lab Set ID: 1303596
Project: MP 44.9 Incident

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
1303513-002DMSD	Oil Range Organics (ORO) (C28-C36)	mg/L	SW8015D	0.692	0.9000	0	76.9	10-200	5.34	30		3/24/2013 1908h
1303513-002DMSD	Surr: C27	%REC	SW8015D	0.200	0.2000		99.8	10-200				3/24/2013 1908h
1303562-001CMSD	Diesel Range Organics (DRO) (C10-C28)	mg/L	SW8015D	1.38	2.000	0	68.9	60-161	13	25		3/23/2013 1512h
1303562-001CMSD	Surr: 4-Bromofluorobenzene	%REC	SW8015D	0.184	0.4000		45.9	10-190				3/23/2013 1512h

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QC SUMMARY REPORT

Client: Utah Division of Water Quality
Lab Set ID: 1303596
Project: MP 44.9 Incident

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-24355	1,2,4-Trichlorobenzene	µg/L	SW8270D	45.2	80.00	0	56.5	10-104				3/26/2013 1431h
LCS-24355	1,4-Dichlorobenzene	µg/L	SW8270D	32.3	80.00	0	40.4	10-118				3/26/2013 1431h
LCS-24355	2,4,6-Trichlorophenol	µg/L	SW8270D	63.8	80.00	0	79.8	17-119				3/26/2013 1431h
LCS-24355	2,4-Dimethylphenol	µg/L	SW8270D	60.9	80.00	0	76.1	10-131				3/26/2013 1431h
LCS-24355	2,4-Dinitrotoluene	µg/L	SW8270D	85.4	80.00	0	107	42-219				3/26/2013 1431h
LCS-24355	2-Chloronaphthalene	µg/L	SW8270D	60.4	80.00	0	75.5	23-126				3/26/2013 1431h
LCS-24355	2-Chlorophenol	µg/L	SW8270D	54.9	80.00	0	68.6	15-128				3/26/2013 1431h
LCS-24355	4,6-Dinitro-2-methylphenol	µg/L	SW8270D	83.1	80.00	0	104	30-198				3/26/2013 1431h
LCS-24355	4-Chloro-3-methylphenol	µg/L	SW8270D	67.6	80.00	0	84.5	29-148				3/26/2013 1431h
LCS-24355	4-Nitrophenol	µg/L	SW8270D	34.6	80.00	0	43.3	10-157				3/26/2013 1431h
LCS-24355	Acenaphthene	µg/L	SW8270D	63.8	80.00	0	79.7	20-116				3/26/2013 1431h
LCS-24355	Benzo(a)pyrene	µg/L	SW8270D	99.0	80.00	0	124	10-221				3/26/2013 1431h
LCS-24355	N-Nitrosodi-n-propylamine	µg/L	SW8270D	52.2	80.00	0	65.3	20-148				3/26/2013 1431h
LCS-24355	Pentachlorophenol	µg/L	SW8270D	77.2	80.00	0	96.5	21-153				3/26/2013 1431h
LCS-24355	Phenol	µg/L	SW8270D	29.8	80.00	0	37.2	10-131				3/26/2013 1431h
LCS-24355	Pyrene	µg/L	SW8270D	84.6	80.00	0	106	37-150				3/26/2013 1431h
LCS-24355	Surr: 2,4,6-Tribromophenol	%REC	SW8270D	79.8	80.00		99.8	10-165				3/26/2013 1431h
LCS-24355	Surr: 2-Fluorobiphenyl	%REC	SW8270D	29.2	40.00		73.1	10-118				3/26/2013 1431h
LCS-24355	Surr: 2-Fluorophenol	%REC	SW8270D	35.8	80.00		44.8	10-121				3/26/2013 1431h
LCS-24355	Surr: Nitrobenzene-d5	%REC	SW8270D	26.6	40.00		66.4	10-127				3/26/2013 1431h
LCS-24355	Surr: Phenol-d6	%REC	SW8270D	29.2	80.00		36.5	10-124				3/26/2013 1431h
LCS-24355	Surr: Terphenyl-d14	%REC	SW8270D	43.7	40.00		109	51-221				3/26/2013 1431h
LCS-24355	Acenaphthene	µg/L	SW8270D	77.6	80.00	0	97.0	23-159				3/28/2013 754h
LCS-24355	Benzo(a)pyrene	µg/L	SW8270D	78.8	80.00	0	98.5	26-223				3/28/2013 754h
LCS-24355	Pentachlorophenol	µg/L	SW8270D	133	80.00	0	166	10-249				3/28/2013 754h
LCS-24355	Pyrene	µg/L	SW8270D	84.4	80.00	0	106	28-204				3/28/2013 754h

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QC SUMMARY REPORT

Client: Utah Division of Water Quality
Lab Set ID: 1303596
Project: MP 44.9 Incident

Contact: Chris Bittner
Dept: MSSV
QC Type: LCSD

Sample ID	Analyte	Units	Method	Result	Amount Spiked	Original Amount	%REC	Limits	%RPD	RPD Limit	Qual	Date Analyzed
LCSD-24355	1,2,4-Trichlorobenzene	µg/L	SW8270D	42.6	80.00	0	53.3	10-104	5.94	25		3/26/2013 1458h
LCSD-24355	1,4-Dichlorobenzene	µg/L	SW8270D	29.7	80.00	0	37.1	10-118	8.54	25		3/26/2013 1458h
LCSD-24355	2,4,6-Trichlorophenol	µg/L	SW8270D	70.7	80.00	0	88.4	17-119	10.2	25		3/26/2013 1458h
LCSD-24355	2,4-Dimethylphenol	µg/L	SW8270D	64.1	80.00	0	80.2	10-131	5.2	25		3/26/2013 1458h
LCSD-24355	2,4-Dinitrotoluene	µg/L	SW8270D	89.2	80.00	0	111	42-219	4.35	25		3/26/2013 1458h
LCSD-24355	2-Chloronaphthalene	µg/L	SW8270D	64.1	80.00	0	80.1	23-126	5.96	25		3/26/2013 1458h
LCSD-24355	2-Chlorophenol	µg/L	SW8270D	56.6	80.00	0	70.7	15-128	3.01	25		3/26/2013 1458h
LCSD-24355	4,6-Dinitro-2-methylphenol	µg/L	SW8270D	91.2	80.00	0	114	30-198	9.2	25		3/26/2013 1458h
LCSD-24355	4-Chloro-3-methylphenol	µg/L	SW8270D	72.1	80.00	0	90.2	29-148	6.51	25		3/26/2013 1458h
LCSD-24355	4-Nitrophenol	µg/L	SW8270D	36.8	80.00	0	46.1	10-157	6.16	25		3/26/2013 1458h
LCSD-24355	Acenaphthene	µg/L	SW8270D	66.9	80.00	0	83.6	20-116	4.79	25		3/26/2013 1458h
LCSD-24355	Benzo(a)pyrene	µg/L	SW8270D	102	80.00	0	128	10-221	3.38	25		3/26/2013 1458h
LCSD-24355	N-Nitrosodi-n-propylamine	µg/L	SW8270D	52.2	80.00	0	65.3	20-148	0.0766	25		3/26/2013 1458h
LCSD-24355	Pentachlorophenol	µg/L	SW8270D	82.0	80.00	0	103	21-153	6.07	25		3/26/2013 1458h
LCSD-24355	Phenol	µg/L	SW8270D	30.4	80.00	0	38.0	10-131	2.03	25		3/26/2013 1458h
LCSD-24355	Pyrene	µg/L	SW8270D	87.4	80.00	0	109	37-150	3.19	25		3/26/2013 1458h
LCSD-24355	Surr: 2,4,6-Tribromophenol	%REC	SW8270D	82.3	80.00		103	10-165				3/26/2013 1458h
LCSD-24355	Surr: 2-Fluorobiphenyl	%REC	SW8270D	29.7	40.00		74.3	10-118				3/26/2013 1458h
LCSD-24355	Surr: 2-Fluorophenol	%REC	SW8270D	36.6	80.00		45.7	10-121				3/26/2013 1458h
LCSD-24355	Surr: Nitrobenzene-d5	%REC	SW8270D	24.9	40.00		62.4	10-127				3/26/2013 1458h
LCSD-24355	Surr: Phenol-d6	%REC	SW8270D	30.4	80.00		38.1	10-124				3/26/2013 1458h
LCSD-24355	Surr: Terphenyl-d14	%REC	SW8270D	44.4	40.00		111	51-221				3/26/2013 1458h
LCSD-24355	Acenaphthene	µg/L	SW8270D	86.8	80.00	0	108	23-159	11.2	25		3/28/2013 821h
LCSD-24355	Benzo(a)pyrene	µg/L	SW8270D	83.2	80.00	0	104	26-223	5.43	25		3/28/2013 821h
LCSD-24355	Pentachlorophenol	µg/L	SW8270D	142	80.00	0	178	10-249	6.84	25		3/28/2013 821h
LCSD-24355	Pyrene	µg/L	SW8270D	92.4	80.00	0	116	28-204	9.05	25		3/28/2013 821h

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QC SUMMARY REPORT

Client: Utah Division of Water Quality
Lab Set ID: 1303596
Project: MP 44.9 Incident

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-24355	1,1´-Biphenyl	µg/L	SW8270D	< 10.0				-				3/26/2013 1405h
MB-24355	1,2,4,5-Tetrachlorobenzene	µg/L	SW8270D	< 10.0				-				3/26/2013 1405h
MB-24355	1,2,4-Trichlorobenzene	µg/L	SW8270D	< 10.0				-				3/26/2013 1405h
MB-24355	1,2-Dichlorobenzene	µg/L	SW8270D	< 10.0				-				3/26/2013 1405h
MB-24355	1,3,5-Trinitrobenzene	µg/L	SW8270D	< 10.0				-				3/26/2013 1405h
MB-24355	1,3-Dichlorobenzene	µg/L	SW8270D	< 10.0				-				3/26/2013 1405h
MB-24355	1,3-Dinitrobenzene	µg/L	SW8270D	< 10.0				-				3/26/2013 1405h
MB-24355	1,4-Dichlorobenzene	µg/L	SW8270D	< 10.0				-				3/26/2013 1405h
MB-24355	1,4-Dinitrobenzene	µg/L	SW8270D	< 10.0				-				3/26/2013 1405h
MB-24355	1,4-Naphthoquinone	µg/L	SW8270D	< 10.0				-				3/26/2013 1405h
MB-24355	1,4-Phenylenediamine	µg/L	SW8270D	< 10.0				-				3/26/2013 1405h
MB-24355	1-Chloronaphthalene	µg/L	SW8270D	< 10.0				-				3/26/2013 1405h
MB-24355	1-Methylnaphthalene	µg/L	SW8270D	< 10.0				-				3/26/2013 1405h
MB-24355	1-Naphthylamine	µg/L	SW8270D	< 10.0				-				3/26/2013 1405h
MB-24355	2,3,4,6-Tetrachlorophenol	µg/L	SW8270D	< 10.0				-				3/26/2013 1405h
MB-24355	2,4,5-Trichlorophenol	µg/L	SW8270D	< 10.0				-				3/26/2013 1405h
MB-24355	2,4,6-Trichlorophenol	µg/L	SW8270D	< 10.0				-				3/26/2013 1405h
MB-24355	2,4-Dichlorophenol	µg/L	SW8270D	< 10.0				-				3/26/2013 1405h
MB-24355	2,4-Dimethylphenol	µg/L	SW8270D	< 10.0				-				3/26/2013 1405h
MB-24355	2,4-Dinitrophenol	µg/L	SW8270D	< 10.0				-				3/26/2013 1405h
MB-24355	2,4-Dinitrotoluene	µg/L	SW8270D	< 10.0				-				3/26/2013 1405h
MB-24355	2,6-Dichlorophenol	µg/L	SW8270D	< 10.0				-				3/26/2013 1405h
MB-24355	2,6-Dinitrotoluene	µg/L	SW8270D	< 10.0				-				3/26/2013 1405h
MB-24355	2-Acetylaminofluorene	µg/L	SW8270D	< 10.0				-				3/26/2013 1405h
MB-24355	2-Chloronaphthalene	µg/L	SW8270D	< 10.0				-				3/26/2013 1405h
MB-24355	2-Chlorophenol	µg/L	SW8270D	< 10.0				-				3/26/2013 1405h
MB-24355	2-Methylnaphthalene	µg/L	SW8270D	< 10.0				-				3/26/2013 1405h

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463 West 3600 South
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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: 1303596
Project: MP 44.9 Incident

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-24355	2-Methylphenol	µg/L	SW8270D	< 10.0				-				3/26/2013 1405h
MB-24355	2-Naphthylamine	µg/L	SW8270D	< 10.0				-				3/26/2013 1405h
MB-24355	2-Nitroaniline	µg/L	SW8270D	< 10.0				-				3/26/2013 1405h
MB-24355	2-Nitrophenol	µg/L	SW8270D	< 10.0				-				3/26/2013 1405h
MB-24355	2-Picoline	µg/L	SW8270D	< 10.0				-				3/26/2013 1405h
MB-24355	3&4-Methylphenol	µg/L	SW8270D	< 10.0				-				3/26/2013 1405h
MB-24355	3,3´-Dichlorobenzidine	µg/L	SW8270D	< 10.0				-				3/26/2013 1405h
MB-24355	3,3´-Dimethylbenzidine	µg/L	SW8270D	< 10.0				-				3/26/2013 1405h
MB-24355	3-Methylcholanthrene	µg/L	SW8270D	< 10.0				-				3/26/2013 1405h
MB-24355	3-Nitroaniline	µg/L	SW8270D	< 10.0				-				3/26/2013 1405h
MB-24355	4,6-Dinitro-2-methylphenol	µg/L	SW8270D	< 10.0				-				3/26/2013 1405h
MB-24355	4-Aminobiphenyl	µg/L	SW8270D	< 10.0				-				3/26/2013 1405h
MB-24355	4-Bromophenyl phenyl ether	µg/L	SW8270D	< 10.0				-				3/26/2013 1405h
MB-24355	4-Chloro-3-methylphenol	µg/L	SW8270D	< 10.0				-				3/26/2013 1405h
MB-24355	4-Chloroaniline	µg/L	SW8270D	< 10.0				-				3/26/2013 1405h
MB-24355	4-Chlorophenyl phenyl ether	µg/L	SW8270D	< 10.0				-				3/26/2013 1405h
MB-24355	4-Nitroaniline	µg/L	SW8270D	< 10.0				-				3/26/2013 1405h
MB-24355	4-Nitrophenol	µg/L	SW8270D	< 10.0				-				3/26/2013 1405h
MB-24355	5-Nitro-o-toluidine	µg/L	SW8270D	< 10.0				-				3/26/2013 1405h
MB-24355	7,12-Dimethylbenz(a)anthracene	µg/L	SW8270D	< 10.0				-				3/26/2013 1405h
MB-24355	a,a-Dimethylphenethylamine	µg/L	SW8270D	< 10.0				-				3/26/2013 1405h
MB-24355	Acenaphthene	µg/L	SW8270D	< 10.0				-				3/26/2013 1405h
MB-24355	Acenaphthylene	µg/L	SW8270D	< 10.0				-				3/26/2013 1405h
MB-24355	Acetophenone	µg/L	SW8270D	< 10.0				-				3/26/2013 1405h
MB-24355	alpha-Terpineol	µg/L	SW8270D	< 10.0				-				3/26/2013 1405h
MB-24355	Aniline	µg/L	SW8270D	< 10.0				-				3/26/2013 1405h
MB-24355	Anthracene	µg/L	SW8270D	< 10.0				-				3/26/2013 1405h

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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: 1303596
Project: MP 44.9 Incident

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-24355	Aramite	µg/L	SW8270D	< 10.0				-				3/26/2013 1405h
MB-24355	Atrazine	µg/L	SW8270D	< 10.0				-				3/26/2013 1405h
MB-24355	Azobenzene	µg/L	SW8270D	< 10.0				-				3/26/2013 1405h
MB-24355	Benz(a)anthracene	µg/L	SW8270D	< 10.0				-				3/26/2013 1405h
MB-24355	Benzaldehyde	µg/L	SW8270D	< 10.0				-				3/26/2013 1405h
MB-24355	Benzidine	µg/L	SW8270D	< 10.0				-				3/26/2013 1405h
MB-24355	Benzo(a)pyrene	µg/L	SW8270D	< 10.0				-				3/26/2013 1405h
MB-24355	Benzo(b)fluoranthene	µg/L	SW8270D	< 10.0				-				3/26/2013 1405h
MB-24355	Benzo(g,h,i)perylene	µg/L	SW8270D	< 10.0				-				3/26/2013 1405h
MB-24355	Benzo(k)fluoranthene	µg/L	SW8270D	< 10.0				-				3/26/2013 1405h
MB-24355	Benzoic acid	µg/L	SW8270D	< 20.0				-				3/26/2013 1405h
MB-24355	Benzyl alcohol	µg/L	SW8270D	< 10.0				-				3/26/2013 1405h
MB-24355	Bis(2-chloroethoxy)methane	µg/L	SW8270D	< 10.0				-				3/26/2013 1405h
MB-24355	Bis(2-chloroethyl) ether	µg/L	SW8270D	< 10.0				-				3/26/2013 1405h
MB-24355	Bis(2-chloroisopropyl) ether	µg/L	SW8270D	< 10.0				-				3/26/2013 1405h
MB-24355	Bis(2-ethylhexyl) phthalate	µg/L	SW8270D	< 10.0				-				3/26/2013 1405h
MB-24355	bis(2-ethylhexyl)adipate	µg/L	SW8270D	< 10.0				-				3/26/2013 1405h
MB-24355	Butyl benzyl phthalate	µg/L	SW8270D	< 10.0				-				3/26/2013 1405h
MB-24355	Caprolactam	µg/L	SW8270D	< 10.0				-				3/26/2013 1405h
MB-24355	Carbazole	µg/L	SW8270D	< 10.0				-				3/26/2013 1405h
MB-24355	Chlorobenzilate	µg/L	SW8270D	< 10.0				-				3/26/2013 1405h
MB-24355	Chrysene	µg/L	SW8270D	< 10.0				-				3/26/2013 1405h
MB-24355	Diallate (cis or trans)	µg/L	SW8270D	< 10.0				-				3/26/2013 1405h
MB-24355	Dibenz(a,h)anthracene	µg/L	SW8270D	< 10.0				-				3/26/2013 1405h
MB-24355	Dibenzofuran	µg/L	SW8270D	< 10.0				-				3/26/2013 1405h
MB-24355	Diethyl phthalate	µg/L	SW8270D	< 10.0				-				3/26/2013 1405h
MB-24355	Dimethoate	µg/L	SW8270D	< 10.0				-				3/26/2013 1405h

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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: 1303596
Project: MP 44.9 Incident

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-24355	Dimethyl phthalate	µg/L	SW8270D	< 10.0				-				3/26/2013 1405h
MB-24355	Dimethylaminoazobenzene	µg/L	SW8270D	< 10.0				-				3/26/2013 1405h
MB-24355	Di-n-butyl phthalate	µg/L	SW8270D	< 10.0				-				3/26/2013 1405h
MB-24355	Di-n-octyl phthalate	µg/L	SW8270D	< 10.0				-				3/26/2013 1405h
MB-24355	Dinoseb	µg/L	SW8270D	< 10.0				-				3/26/2013 1405h
MB-24355	Diphenylamine	µg/L	SW8270D	< 10.0				-				3/26/2013 1405h
MB-24355	Disulfoton	µg/L	SW8270D	< 10.0				-				3/26/2013 1405h
MB-24355	Ethyl methanesulfonate	µg/L	SW8270D	< 10.0				-				3/26/2013 1405h
MB-24355	Famphur	µg/L	SW8270D	< 10.0				-				3/26/2013 1405h
MB-24355	Fluoranthene	µg/L	SW8270D	< 10.0				-				3/26/2013 1405h
MB-24355	Fluorene	µg/L	SW8270D	< 10.0				-				3/26/2013 1405h
MB-24355	Hexachlorobenzene	µg/L	SW8270D	< 10.0				-				3/26/2013 1405h
MB-24355	Hexachlorobutadiene	µg/L	SW8270D	< 10.0				-				3/26/2013 1405h
MB-24355	Hexachlorocyclopentadiene	µg/L	SW8270D	< 10.0				-				3/26/2013 1405h
MB-24355	Hexachloroethane	µg/L	SW8270D	< 10.0				-				3/26/2013 1405h
MB-24355	Hexachlorophene	µg/L	SW8270D	< 10.0				-				3/26/2013 1405h
MB-24355	Hexachloropropene	µg/L	SW8270D	< 10.0				-				3/26/2013 1405h
MB-24355	Indene	µg/L	SW8270D	< 10.0				-				3/26/2013 1405h
MB-24355	Indeno(1,2,3-cd)pyrene	µg/L	SW8270D	< 10.0				-				3/26/2013 1405h
MB-24355	Isodrin	µg/L	SW8270D	< 10.0				-				3/26/2013 1405h
MB-24355	Isophorone	µg/L	SW8270D	< 10.0				-				3/26/2013 1405h
MB-24355	Isosafrole	µg/L	SW8270D	< 10.0				-				3/26/2013 1405h
MB-24355	Kepone	µg/L	SW8270D	< 10.0				-				3/26/2013 1405h
MB-24355	Methapyrilene	µg/L	SW8270D	< 10.0				-				3/26/2013 1405h
MB-24355	Methyl methanesulfonate	µg/L	SW8270D	< 10.0				-				3/26/2013 1405h
MB-24355	Naphthalene	µg/L	SW8270D	< 10.0				-				3/26/2013 1405h
MB-24355	n-Decane	µg/L	SW8270D	< 10.0				-				3/26/2013 1405h

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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: 1303596
Project: MP 44.9 Incident

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-24355	Nitrobenzene	µg/L	SW8270D	< 10.0				-				3/26/2013 1405h
MB-24355	Nitroquinoline-1-oxide	µg/L	SW8270D	< 10.0				-				3/26/2013 1405h
MB-24355	N-Nitrosodiethylamine	µg/L	SW8270D	< 10.0				-				3/26/2013 1405h
MB-24355	N-Nitrosodimethylamine	µg/L	SW8270D	< 10.0				-				3/26/2013 1405h
MB-24355	N-Nitrosodi-n-butylamine	µg/L	SW8270D	< 10.0				-				3/26/2013 1405h
MB-24355	N-Nitrosodiphenylamine	µg/L	SW8270D	< 10.0				-				3/26/2013 1405h
MB-24355	N-Nitrosodi-n-propylamine	µg/L	SW8270D	< 10.0				-				3/26/2013 1405h
MB-24355	N-Nitrosomethylethylamine	µg/L	SW8270D	< 10.0				-				3/26/2013 1405h
MB-24355	N-Nitrosomorpholine	µg/L	SW8270D	< 10.0				-				3/26/2013 1405h
MB-24355	N-Nitrosopiperidine	µg/L	SW8270D	< 10.0				-				3/26/2013 1405h
MB-24355	N-Nitrosopyrrolidine	µg/L	SW8270D	< 10.0				-				3/26/2013 1405h
MB-24355	n-Octadecane	µg/L	SW8270D	< 10.0				-				3/26/2013 1405h
MB-24355	O,O,O-Triethyl phosphorothioate	µg/L	SW8270D	< 10.0				-				3/26/2013 1405h
MB-24355	o-Toluidine	µg/L	SW8270D	< 10.0				-				3/26/2013 1405h
MB-24355	Parathion	µg/L	SW8270D	< 10.0				-				3/26/2013 1405h
MB-24355	Methyl parathion	µg/L	SW8270D	< 10.0				-				3/26/2013 1405h
MB-24355	Pentachlorobenzene	µg/L	SW8270D	< 10.0				-				3/26/2013 1405h
MB-24355	Pentachloronitrobenzene	µg/L	SW8270D	< 10.0				-				3/26/2013 1405h
MB-24355	Pentachlorophenol	µg/L	SW8270D	< 10.0				-				3/26/2013 1405h
MB-24355	Phenacetin	µg/L	SW8270D	< 10.0				-				3/26/2013 1405h
MB-24355	Phenanthrene	µg/L	SW8270D	< 10.0				-				3/26/2013 1405h
MB-24355	Phenol	µg/L	SW8270D	< 10.0				-				3/26/2013 1405h
MB-24355	Phorate	µg/L	SW8270D	< 10.0				-				3/26/2013 1405h
MB-24355	Pronamide	µg/L	SW8270D	< 10.0				-				3/26/2013 1405h
MB-24355	Pyrene	µg/L	SW8270D	< 10.0				-				3/26/2013 1405h
MB-24355	Pyridine	µg/L	SW8270D	< 10.0				-				3/26/2013 1405h
MB-24355	Quinoline	µg/L	SW8270D	< 10.0				-				3/26/2013 1405h

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Jose Rocha
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QC SUMMARY REPORT

Client: Utah Division of Water Quality
Lab Set ID: 1303596
Project: MP 44.9 Incident

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-24355	Safrole	µg/L	SW8270D	< 10.0				-				3/26/2013 1405h
MB-24355	Tetraethyl dithiopyrophosphate	µg/L	SW8270D	< 10.0				-				3/26/2013 1405h
MB-24355	Thionazin	µg/L	SW8270D	< 10.0				-				3/26/2013 1405h
MB-24355	Surr: 2,4,6-Tribromophenol	%REC	SW8270D	66.9	80.00		83.7	10-165				3/26/2013 1405h
MB-24355	Surr: 2-Fluorobiphenyl	%REC	SW8270D	24.2	40.00		60.4	10-118				3/26/2013 1405h
MB-24355	Surr: 2-Fluorophenol	%REC	SW8270D	33.3	80.00		41.7	10-121				3/26/2013 1405h
MB-24355	Surr: Nitrobenzene-d5	%REC	SW8270D	22.1	40.00		55.2	10-127				3/26/2013 1405h
MB-24355	Surr: Phenol-d6	%REC	SW8270D	24.8	80.00		31.0	10-124				3/26/2013 1405h
MB-24355	Surr: Terphenyl-d14	%REC	SW8270D	42.2	40.00		105	51-221				3/26/2013 1405h
MB-24355	1-Methylnaphthalene	µg/L	SW8270D	< 0.100				-				3/28/2013 728h
MB-24355	2-Methylnaphthalene	µg/L	SW8270D	< 0.100				-				3/28/2013 728h
MB-24355	Acenaphthene	µg/L	SW8270D	< 0.100				-				3/28/2013 728h
MB-24355	Acenaphthylene	µg/L	SW8270D	< 0.100				-				3/28/2013 728h
MB-24355	Anthracene	µg/L	SW8270D	< 0.100				-				3/28/2013 728h
MB-24355	Benz(a)anthracene	µg/L	SW8270D	< 0.100				-				3/28/2013 728h
MB-24355	Benzo(a)pyrene	µg/L	SW8270D	< 0.100				-				3/28/2013 728h
MB-24355	Benzo(b)fluoranthene	µg/L	SW8270D	< 0.100				-				3/28/2013 728h
MB-24355	Benzo(g,h,i)perylene	µg/L	SW8270D	< 0.100				-				3/28/2013 728h
MB-24355	Benzo(k)fluoranthene	µg/L	SW8270D	< 0.100				-				3/28/2013 728h
MB-24355	Chrysene	µg/L	SW8270D	< 0.100				-				3/28/2013 728h
MB-24355	Dibenz(a,h)anthracene	µg/L	SW8270D	< 0.100				-				3/28/2013 728h
MB-24355	Fluoranthene	µg/L	SW8270D	< 0.100				-				3/28/2013 728h
MB-24355	Fluorene	µg/L	SW8270D	< 0.100				-				3/28/2013 728h
MB-24355	Hexachlorobenzene	µg/L	SW8270D	< 1.00				-				3/28/2013 728h
MB-24355	Indene	µg/L	SW8270D	< 0.100				-				3/28/2013 728h
MB-24355	Indeno(1,2,3-cd)pyrene	µg/L	SW8270D	< 0.100				-				3/28/2013 728h
MB-24355	Naphthalene	µg/L	SW8270D	< 0.100				-				3/28/2013 728h

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QC SUMMARY REPORT

Client: Utah Division of Water Quality
Lab Set ID: 1303596
Project: MP 44.9 Incident

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-24355	Pentachlorophenol	µg/L	SW8270D	< 1.00				-				3/28/2013 728h
MB-24355	Phenanthrene	µg/L	SW8270D	< 0.100				-				3/28/2013 728h
MB-24355	Pyrene	µg/L	SW8270D	< 0.100				-				3/28/2013 728h

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Salt Lake City, UT 84115
Phone: (801) 263-8686, Toll Free: (888) 263-8686, Fax: (801) 263-8687
e-mail: awal@awal-labs.com, web: www.awal-labs.com

Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

QC SUMMARY REPORT

Client: Utah Division of Water Quality
Lab Set ID: 1303596
Project: MP 44.9 Incident

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
1303597-002BMS	1,2,4-Trichlorobenzene	µg/L	SW8270D	42.9	80.00	0	53.6	20-107				3/26/2013 1949h
1303597-002BMS	1,4-Dichlorobenzene	µg/L	SW8270D	31.0	80.00	0	38.8	11-90				3/26/2013 1949h
1303597-002BMS	2,4,6-Trichlorophenol	µg/L	SW8270D	60.0	80.00	0	75.0	10-223				3/26/2013 1949h
1303597-002BMS	2,4-Dimethylphenol	µg/L	SW8270D	59.0	80.00	0	73.7	10-176				3/26/2013 1949h
1303597-002BMS	2,4-Dinitrotoluene	µg/L	SW8270D	71.2	80.00	0	88.9	21-191				3/26/2013 1949h
1303597-002BMS	2-Chloronaphthalene	µg/L	SW8270D	58.0	80.00	0	72.5	12-132				3/26/2013 1949h
1303597-002BMS	2-Chlorophenol	µg/L	SW8270D	57.1	80.00	0	71.4	20-107				3/26/2013 1949h
1303597-002BMS	4,6-Dinitro-2-methylphenol	µg/L	SW8270D	76.2	80.00	0	95.2	20-250				3/26/2013 1949h
1303597-002BMS	4-Chloro-3-methylphenol	µg/L	SW8270D	67.0	80.00	0	83.7	10-136				3/26/2013 1949h
1303597-002BMS	4-Nitrophenol	µg/L	SW8270D	29.0	80.00	0	36.2	10-135				3/26/2013 1949h
1303597-002BMS	Acenaphthene	µg/L	SW8270D	57.2	80.00	0	71.6	21-113				3/26/2013 1949h
1303597-002BMS	Benzo(a)pyrene	µg/L	SW8270D	76.0	80.00	0	95.1	15-169				3/26/2013 1949h
1303597-002BMS	N-Nitrosodi-n-propylamine	µg/L	SW8270D	50.3	80.00	0	62.8	10-133				3/26/2013 1949h
1303597-002BMS	Pentachlorophenol	µg/L	SW8270D	38.3	80.00	0	47.9	10-131				3/26/2013 1949h
1303597-002BMS	Phenol	µg/L	SW8270D	30.3	80.00	0	37.8	10-71				3/26/2013 1949h
1303597-002BMS	Pyrene	µg/L	SW8270D	74.6	80.00	0	93.2	23-150				3/26/2013 1949h
1303597-002BMS	Surr: 2,4,6-Tribromophenol	%REC	SW8270D	64.9	80.00		81.1	14-159				3/26/2013 1949h
1303597-002BMS	Surr: 2-Fluorobiphenyl	%REC	SW8270D	26.5	40.00		66.2	10-124				3/26/2013 1949h
1303597-002BMS	Surr: 2-Fluorophenol	%REC	SW8270D	39.3	80.00		49.1	10-106				3/26/2013 1949h
1303597-002BMS	Surr: Nitrobenzene-d5	%REC	SW8270D	25.3	40.00		63.3	10-180				3/26/2013 1949h
1303597-002BMS	Surr: Phenol-d6	%REC	SW8270D	30.3	80.00		37.9	10-122				3/26/2013 1949h
1303597-002BMS	Surr: Terphenyl-d14	%REC	SW8270D	36.2	40.00		90.4	10-199				3/26/2013 1949h
1303597-002BMS	Acenaphthene	µg/L	SW8270D	79.8	80.00	0	99.8	21-113				3/28/2013 941h
1303597-002BMS	Benzo(a)pyrene	µg/L	SW8270D	73.4	80.00	0	91.8	15-169				3/28/2013 941h
1303597-002BMS	Pentachlorophenol	µg/L	SW8270D	97.0	80.00	0	121	10-131				3/28/2013 941h
1303597-002BMS	Pyrene	µg/L	SW8270D	80.8	80.00	0	101	23-150				3/28/2013 941h

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Laboratory Director

Jose Rocha
QA Officer

QC SUMMARY REPORT

Client: Utah Division of Water Quality
Lab Set ID: 1303596
Project: MP 44.9 Incident

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
1303597-002BMSD	1,2,4-Trichlorobenzene	µg/L	SW8270D	50.4	80.00	0	63.0	20-107	16	25		3/26/2013 2202h
1303597-002BMSD	1,4-Dichlorobenzene	µg/L	SW8270D	41.7	80.00	0	52.1	11-90	29.3	25	@	3/26/2013 2202h
1303597-002BMSD	2,4,6-Trichlorophenol	µg/L	SW8270D	62.8	80.00	0	78.5	10-223	4.53	25		3/26/2013 2202h
1303597-002BMSD	2,4-Dimethylphenol	µg/L	SW8270D	54.6	80.00	0	68.2	10-176	7.75	25		3/26/2013 2202h
1303597-002BMSD	2,4-Dinitrotoluene	µg/L	SW8270D	88.9	80.00	0	111	21-191	22.2	25		3/26/2013 2202h
1303597-002BMSD	2-Chloronaphthalene	µg/L	SW8270D	56.0	80.00	0	70.1	12-132	3.44	25		3/26/2013 2202h
1303597-002BMSD	2-Chlorophenol	µg/L	SW8270D	51.8	80.00	0	64.7	20-107	9.77	25		3/26/2013 2202h
1303597-002BMSD	4,6-Dinitro-2-methylphenol	µg/L	SW8270D	95.9	80.00	0	120	20-250	23	25		3/26/2013 2202h
1303597-002BMSD	4-Chloro-3-methylphenol	µg/L	SW8270D	71.5	80.00	0	89.3	10-136	6.53	25		3/26/2013 2202h
1303597-002BMSD	4-Nitrophenol	µg/L	SW8270D	37.7	80.00	0	47.1	10-135	26.2	25	@	3/26/2013 2202h
1303597-002BMSD	Acenaphthene	µg/L	SW8270D	58.8	80.00	0	73.5	21-113	2.71	25		3/26/2013 2202h
1303597-002BMSD	Benzo(a)pyrene	µg/L	SW8270D	97.1	80.00	0	121	15-169	24.3	25		3/26/2013 2202h
1303597-002BMSD	N-Nitrosodi-n-propylamine	µg/L	SW8270D	50.8	80.00	0	63.5	10-133	1.11	25		3/26/2013 2202h
1303597-002BMSD	Pentachlorophenol	µg/L	SW8270D	44.0	80.00	0	55.0	10-131	13.9	25		3/26/2013 2202h
1303597-002BMSD	Phenol	µg/L	SW8270D	27.8	80.00	0	34.8	10-71	8.54	25		3/26/2013 2202h
1303597-002BMSD	Pyrene	µg/L	SW8270D	91.2	80.00	0	114	23-150	20	25		3/26/2013 2202h
1303597-002BMSD	Surr: 2,4,6-Tribromophenol	%REC	SW8270D	64.1	80.00		80.1	14-159				3/26/2013 2202h
1303597-002BMSD	Surr: 2-Fluorobiphenyl	%REC	SW8270D	20.8	40.00		52.0	10-124				3/26/2013 2202h
1303597-002BMSD	Surr: 2-Fluorophenol	%REC	SW8270D	30.7	80.00		38.4	10-106				3/26/2013 2202h
1303597-002BMSD	Surr: Nitrobenzene-d5	%REC	SW8270D	20.0	40.00		50.1	10-180				3/26/2013 2202h
1303597-002BMSD	Surr: Phenol-d6	%REC	SW8270D	25.7	80.00		32.2	10-122				3/26/2013 2202h
1303597-002BMSD	Surr: Terphenyl-d14	%REC	SW8270D	36.1	40.00		90.2	10-199				3/26/2013 2202h
1303597-002BMSD	Acenaphthene	µg/L	SW8270D	73.4	80.00	0	91.8	21-113	8.36	25		3/28/2013 1008h
1303597-002BMSD	Benzo(a)pyrene	µg/L	SW8270D	79.4	80.00	0	99.2	15-169	7.85	25		3/28/2013 1008h
1303597-002BMSD	Pentachlorophenol	µg/L	SW8270D	95.2	80.00	0	119	10-131	1.87	25		3/28/2013 1008h
1303597-002BMSD	Pyrene	µg/L	SW8270D	89.0	80.00	0	111	23-150	9.66	25		3/28/2013 1008h

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

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

QC SUMMARY REPORT

Client: Utah Division of Water Quality
Lab Set ID: 1303596
Project: MP 44.9 Incident

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 032413A	1,1,1-Trichloroethane	µg/L	SW8260C	23.6	20.00	0	118	59-156				3/24/2013 636h
LCS VOC 032413A	1,1-Dichloroethene	µg/L	SW8260C	23.8	20.00	0	119	46-171				3/24/2013 636h
LCS VOC 032413A	1,2-Dichlorobenzene	µg/L	SW8260C	21.8	20.00	0	109	67-135				3/24/2013 636h
LCS VOC 032413A	1,2-Dichloroethane	µg/L	SW8260C	21.5	20.00	0	108	60-137				3/24/2013 636h
LCS VOC 032413A	1,2-Dichloropropane	µg/L	SW8260C	20.6	20.00	0	103	59-135				3/24/2013 636h
LCS VOC 032413A	Benzene	µg/L	SW8260C	21.8	20.00	0	109	62-127				3/24/2013 636h
LCS VOC 032413A	Chlorobenzene	µg/L	SW8260C	21.4	20.00	0	107	63-140				3/24/2013 636h
LCS VOC 032413A	Chloroform	µg/L	SW8260C	22.5	20.00	0	113	67-132				3/24/2013 636h
LCS VOC 032413A	Ethylbenzene	µg/L	SW8260C	22.4	20.00	0	112	55-133				3/24/2013 636h
LCS VOC 032413A	Isopropylbenzene	µg/L	SW8260C	23.2	20.00	0	116	60-147				3/24/2013 636h
LCS VOC 032413A	Methyl tert-butyl ether	µg/L	SW8260C	21.8	20.00	0	109	37-189				3/24/2013 636h
LCS VOC 032413A	Methylene chloride	µg/L	SW8260C	22.9	20.00	0	114	32-185				3/24/2013 636h
LCS VOC 032413A	Naphthalene	µg/L	SW8260C	20.2	20.00	0	101	28-136				3/24/2013 636h
LCS VOC 032413A	Tetrahydrofuran	µg/L	SW8260C	17.6	20.00	0	87.9	43-146				3/24/2013 636h
LCS VOC 032413A	Toluene	µg/L	SW8260C	21.8	20.00	0	109	64-129				3/24/2013 636h
LCS VOC 032413A	Trichloroethene	µg/L	SW8260C	22.4	20.00	0	112	54-152				3/24/2013 636h
LCS VOC 032413A	Xylenes, Total	µg/L	SW8260C	68.4	60.00	0	114	52-134				3/24/2013 636h
LCS VOC 032413A	Surr: 1,2-Dichloroethane-d4	%REC	SW8260C	51.8	50.00		104	76-138				3/24/2013 636h
LCS VOC 032413A	Surr: 4-Bromofluorobenzene	%REC	SW8260C	49.2	50.00		98.4	77-121				3/24/2013 636h
LCS VOC 032413A	Surr: Dibromofluoromethane	%REC	SW8260C	51.4	50.00		103	67-128				3/24/2013 636h
LCS VOC 032413A	Surr: Toluene-d8	%REC	SW8260C	49.5	50.00		99.1	81-135				3/24/2013 636h

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Laboratory Director

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QA Officer

QC SUMMARY REPORT

Client: Utah Division of Water Quality
Lab Set ID: 1303596
Project: MP 44.9 Incident

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 032413A	1,1,1,2-Tetrachloroethane	µg/L	SW8260C	< 2.00				-				3/24/2013 714h
MB VOC 032413A	1,1,1-Trichloroethane	µg/L	SW8260C	< 2.00				-				3/24/2013 714h
MB VOC 032413A	1,1,2,2-Tetrachloroethane	µg/L	SW8260C	< 2.00				-				3/24/2013 714h
MB VOC 032413A	1,1,2-Trichloro-1,2,2-trifluoroethane	µg/L	SW8260C	< 2.00				-				3/24/2013 714h
MB VOC 032413A	1,1,2-Trichloroethane	µg/L	SW8260C	< 2.00				-				3/24/2013 714h
MB VOC 032413A	1,1-Dichloropropene	µg/L	SW8260C	< 2.00				-				3/24/2013 714h
MB VOC 032413A	1,1-Dichloroethane	µg/L	SW8260C	< 2.00				-				3/24/2013 714h
MB VOC 032413A	1,1-Dichloroethene	µg/L	SW8260C	< 2.00				-				3/24/2013 714h
MB VOC 032413A	1,2,3-Trichlorobenzene	µg/L	SW8260C	< 2.00				-				3/24/2013 714h
MB VOC 032413A	1,2,3-Trichloropropane	µg/L	SW8260C	< 2.00				-				3/24/2013 714h
MB VOC 032413A	1,2,3-Trimethylbenzene	µg/L	SW8260C	< 2.00				-				3/24/2013 714h
MB VOC 032413A	1,2,4-Trichlorobenzene	µg/L	SW8260C	< 2.00				-				3/24/2013 714h
MB VOC 032413A	1,2,4-Trimethylbenzene	µg/L	SW8260C	< 2.00				-				3/24/2013 714h
MB VOC 032413A	1,2-Dibromo-3-chloropropane	µg/L	SW8260C	< 5.00				-				3/24/2013 714h
MB VOC 032413A	1,2-Dibromoethane	µg/L	SW8260C	< 2.00				-				3/24/2013 714h
MB VOC 032413A	1,2-Dichlorobenzene	µg/L	SW8260C	< 2.00				-				3/24/2013 714h
MB VOC 032413A	1,2-Dichloroethane	µg/L	SW8260C	< 2.00				-				3/24/2013 714h
MB VOC 032413A	1,2-Dichloropropane	µg/L	SW8260C	< 2.00				-				3/24/2013 714h
MB VOC 032413A	1,3,5-Trimethylbenzene	µg/L	SW8260C	< 2.00				-				3/24/2013 714h
MB VOC 032413A	1,3-Dichlorobenzene	µg/L	SW8260C	< 2.00				-				3/24/2013 714h
MB VOC 032413A	1,3-Dichloropropane	µg/L	SW8260C	< 2.00				-				3/24/2013 714h
MB VOC 032413A	1,4-Dichlorobenzene	µg/L	SW8260C	< 2.00				-				3/24/2013 714h
MB VOC 032413A	1,4-Dioxane	µg/L	SW8260C	< 50.0				-				3/24/2013 714h
MB VOC 032413A	2,2-Dichloropropane	µg/L	SW8260C	< 2.00				-				3/24/2013 714h
MB VOC 032413A	2-Butanone	µg/L	SW8260C	< 10.0				-				3/24/2013 714h
MB VOC 032413A	2-Chloroethyl vinyl ether	µg/L	SW8260C	< 5.00				-				3/24/2013 714h

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QC SUMMARY REPORT

Client: Utah Division of Water Quality
Lab Set ID: 1303596
Project: MP 44.9 Incident

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 032413A	2-Chlorotoluene	µg/L	SW8260C	< 2.00				-				3/24/2013 714h
MB VOC 032413A	2-Hexanone	µg/L	SW8260C	< 5.00				-				3/24/2013 714h
MB VOC 032413A	2-Nitropropane	µg/L	SW8260C	< 5.00				-				3/24/2013 714h
MB VOC 032413A	4-Chlorotoluene	µg/L	SW8260C	< 2.00				-				3/24/2013 714h
MB VOC 032413A	4-Isopropyltoluene	µg/L	SW8260C	< 2.00				-				3/24/2013 714h
MB VOC 032413A	4-Methyl-2-pentanone	µg/L	SW8260C	< 5.00				-				3/24/2013 714h
MB VOC 032413A	Acetone	µg/L	SW8260C	< 10.0				-				3/24/2013 714h
MB VOC 032413A	Acetonitrile	µg/L	SW8260C	< 5.00				-				3/24/2013 714h
MB VOC 032413A	Acrolein	µg/L	SW8260C	< 5.00				-				3/24/2013 714h
MB VOC 032413A	Acrylonitrile	µg/L	SW8260C	< 10.0				-				3/24/2013 714h
MB VOC 032413A	Allyl chloride	µg/L	SW8260C	< 5.00				-				3/24/2013 714h
MB VOC 032413A	Benzene	µg/L	SW8260C	< 2.00				-				3/24/2013 714h
MB VOC 032413A	Benzyl chloride	µg/L	SW8260C	< 5.00				-				3/24/2013 714h
MB VOC 032413A	Bis(2-chloroisopropyl) ether	µg/L	SW8260C	< 5.00				-				3/24/2013 714h
MB VOC 032413A	Bromobenzene	µg/L	SW8260C	< 2.00				-				3/24/2013 714h
MB VOC 032413A	Bromochloromethane	µg/L	SW8260C	< 2.00				-				3/24/2013 714h
MB VOC 032413A	Bromodichloromethane	µg/L	SW8260C	< 2.00				-				3/24/2013 714h
MB VOC 032413A	Bromoform	µg/L	SW8260C	< 2.00				-				3/24/2013 714h
MB VOC 032413A	Bromomethane	µg/L	SW8260C	< 5.00				-				3/24/2013 714h
MB VOC 032413A	Butyl acetate	µg/L	SW8260C	< 10.0				-				3/24/2013 714h
MB VOC 032413A	Carbon disulfide	µg/L	SW8260C	< 2.00				-				3/24/2013 714h
MB VOC 032413A	Carbon tetrachloride	µg/L	SW8260C	< 2.00				-				3/24/2013 714h
MB VOC 032413A	Chlorobenzene	µg/L	SW8260C	< 2.00				-				3/24/2013 714h
MB VOC 032413A	Chloroethane	µg/L	SW8260C	< 2.00				-				3/24/2013 714h
MB VOC 032413A	Chloroform	µg/L	SW8260C	< 2.00				-				3/24/2013 714h
MB VOC 032413A	Chloromethane	µg/L	SW8260C	< 3.00				-				3/24/2013 714h
MB VOC 032413A	Chloroprene	µg/L	SW8260C	< 2.00				-				3/24/2013 714h

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e-mail: awal@awal-labs.com, web: www.awal-labs.com

Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

QC SUMMARY REPORT

Client: Utah Division of Water Quality
Lab Set ID: 1303596
Project: MP 44.9 Incident

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 032413A	cis-1,2-Dichloroethene	µg/L	SW8260C	< 2.00				-				3/24/2013 714h
MB VOC 032413A	cis-1,3-Dichloropropene	µg/L	SW8260C	< 2.00				-				3/24/2013 714h
MB VOC 032413A	Cyclohexane	µg/L	SW8260C	< 2.00				-				3/24/2013 714h
MB VOC 032413A	Cyclohexanone	µg/L	SW8260C	< 50.0				-				3/24/2013 714h
MB VOC 032413A	Dibromochloromethane	µg/L	SW8260C	< 2.00				-				3/24/2013 714h
MB VOC 032413A	Dibromomethane	µg/L	SW8260C	< 2.00				-				3/24/2013 714h
MB VOC 032413A	Dichlorodifluoromethane	µg/L	SW8260C	< 2.00				-				3/24/2013 714h
MB VOC 032413A	Ethyl acetate	µg/L	SW8260C	< 10.0				-				3/24/2013 714h
MB VOC 032413A	Ethyl ether	µg/L	SW8260C	< 10.0				-				3/24/2013 714h
MB VOC 032413A	Ethyl methacrylate	µg/L	SW8260C	< 2.00				-				3/24/2013 714h
MB VOC 032413A	Ethylbenzene	µg/L	SW8260C	< 2.00				-				3/24/2013 714h
MB VOC 032413A	Hexachlorobutadiene	µg/L	SW8260C	< 2.00				-				3/24/2013 714h
MB VOC 032413A	Iodomethane	µg/L	SW8260C	< 5.00				-				3/24/2013 714h
MB VOC 032413A	Isobutyl alcohol	µg/L	SW8260C	< 100				-				3/24/2013 714h
MB VOC 032413A	Isopropyl acetate	µg/L	SW8260C	< 10.0				-				3/24/2013 714h
MB VOC 032413A	Isopropyl alcohol	µg/L	SW8260C	< 40.0				-				3/24/2013 714h
MB VOC 032413A	Isopropylbenzene	µg/L	SW8260C	< 2.00				-				3/24/2013 714h
MB VOC 032413A	m,p-Xylene	µg/L	SW8260C	< 2.00				-				3/24/2013 714h
MB VOC 032413A	Methacrylonitrile	µg/L	SW8260C	< 5.00				-				3/24/2013 714h
MB VOC 032413A	Methyl Acetate	µg/L	SW8260C	< 5.00				-				3/24/2013 714h
MB VOC 032413A	Methyl methacrylate	µg/L	SW8260C	< 5.00				-				3/24/2013 714h
MB VOC 032413A	Methyl tert-butyl ether	µg/L	SW8260C	< 2.00				-				3/24/2013 714h
MB VOC 032413A	Methylcyclohexane	µg/L	SW8260C	< 2.00				-				3/24/2013 714h
MB VOC 032413A	Methylene chloride	µg/L	SW8260C	< 2.00				-				3/24/2013 714h
MB VOC 032413A	n-Amyl acetate	µg/L	SW8260C	< 10.0				-				3/24/2013 714h
MB VOC 032413A	Naphthalene	µg/L	SW8260C	< 2.00				-				3/24/2013 714h
MB VOC 032413A	n-Butyl alcohol	µg/L	SW8260C	< 100				-				3/24/2013 714h

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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: 1303596
Project: MP 44.9 Incident

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 032413A	n-Butylbenzene	µg/L	SW8260C	< 2.00				-				3/24/2013 714h
MB VOC 032413A	n-Hexane	µg/L	SW8260C	< 2.00				-				3/24/2013 714h
MB VOC 032413A	n-Octane	µg/L	SW8260C	< 2.00				-				3/24/2013 714h
MB VOC 032413A	n-Propylbenzene	µg/L	SW8260C	< 2.00				-				3/24/2013 714h
MB VOC 032413A	o-Xylene	µg/L	SW8260C	< 2.00				-				3/24/2013 714h
MB VOC 032413A	Pentachloroethane	µg/L	SW8260C	< 5.00				-				3/24/2013 714h
MB VOC 032413A	Propionitrile	µg/L	SW8260C	< 25.0				-				3/24/2013 714h
MB VOC 032413A	Propyl acetate	µg/L	SW8260C	< 10.0				-				3/24/2013 714h
MB VOC 032413A	sec-Butylbenzene	µg/L	SW8260C	< 2.00				-				3/24/2013 714h
MB VOC 032413A	Styrene	µg/L	SW8260C	< 2.00				-				3/24/2013 714h
MB VOC 032413A	tert-Butyl alcohol	µg/L	SW8260C	< 20.0				-				3/24/2013 714h
MB VOC 032413A	tert-Butylbenzene	µg/L	SW8260C	< 2.00				-				3/24/2013 714h
MB VOC 032413A	Tetrachloroethene	µg/L	SW8260C	< 2.00				-				3/24/2013 714h
MB VOC 032413A	Tetrahydrofuran	µg/L	SW8260C	< 2.00				-				3/24/2013 714h
MB VOC 032413A	Toluene	µg/L	SW8260C	< 2.00				-				3/24/2013 714h
MB VOC 032413A	trans-1,2-Dichloroethene	µg/L	SW8260C	< 2.00				-				3/24/2013 714h
MB VOC 032413A	trans-1,3-Dichloropropene	µg/L	SW8260C	< 2.00				-				3/24/2013 714h
MB VOC 032413A	trans-1,4-Dichloro-2-butene	µg/L	SW8260C	< 2.00				-				3/24/2013 714h
MB VOC 032413A	Trichloroethene	µg/L	SW8260C	< 2.00				-				3/24/2013 714h
MB VOC 032413A	Trichlorofluoromethane	µg/L	SW8260C	< 2.00				-				3/24/2013 714h
MB VOC 032413A	Vinyl acetate	µg/L	SW8260C	< 10.0				-				3/24/2013 714h
MB VOC 032413A	Vinyl chloride	µg/L	SW8260C	< 1.00				-				3/24/2013 714h
MB VOC 032413A	Xylenes, Total	µg/L	SW8260C	< 2.00				-				3/24/2013 714h
MB VOC 032413A	Surr: 1,2-Dichloroethane-d4	%REC	SW8260C	53.4	50.00		107	76-138				3/24/2013 714h
MB VOC 032413A	Surr: 4-Bromofluorobenzene	%REC	SW8260C	52.3	50.00		105	77-121				3/24/2013 714h
MB VOC 032413A	Surr: Dibromofluoromethane	%REC	SW8260C	50.6	50.00		101	67-128				3/24/2013 714h
MB VOC 032413A	Surr: Toluene-d8	%REC	SW8260C	49.7	50.00		99.4	81-135				3/24/2013 714h

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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: 1303596
Project: MP 44.9 Incident

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
1303596-008AMS	1,1,1-Trichloroethane	µg/L	SW8260C	216	200.0	0	108	67-147				3/24/2013 1115h
1303596-008AMS	1,1-Dichloroethene	µg/L	SW8260C	208	200.0	0	104	51-152				3/24/2013 1115h
1303596-008AMS	1,2-Dichlorobenzene	µg/L	SW8260C	209	200.0	0	104	70-130				3/24/2013 1115h
1303596-008AMS	1,2-Dichloroethane	µg/L	SW8260C	198	200.0	0	99.0	39-162				3/24/2013 1115h
1303596-008AMS	1,2-Dichloropropane	µg/L	SW8260C	202	200.0	0	101	59-135				3/24/2013 1115h
1303596-008AMS	Benzene	µg/L	SW8260C	213	200.0	0	107	66-145				3/24/2013 1115h
1303596-008AMS	Chlorobenzene	µg/L	SW8260C	212	200.0	0	106	63-140				3/24/2013 1115h
1303596-008AMS	Chloroform	µg/L	SW8260C	206	200.0	0	103	50-146				3/24/2013 1115h
1303596-008AMS	Ethylbenzene	µg/L	SW8260C	220	200.0	0	110	69-133				3/24/2013 1115h
1303596-008AMS	Isopropylbenzene	µg/L	SW8260C	224	200.0	0	112	60-147				3/24/2013 1115h
1303596-008AMS	Methyl tert-butyl ether	µg/L	SW8260C	198	200.0	0	99.2	37-189				3/24/2013 1115h
1303596-008AMS	Methylene chloride	µg/L	SW8260C	201	200.0	0	101	30-192				3/24/2013 1115h
1303596-008AMS	Naphthalene	µg/L	SW8260C	218	200.0	0	109	41-131				3/24/2013 1115h
1303596-008AMS	Tetrahydrofuran	µg/L	SW8260C	187	200.0	0	93.4	43-146				3/24/2013 1115h
1303596-008AMS	Toluene	µg/L	SW8260C	219	200.0	0	110	18-192				3/24/2013 1115h
1303596-008AMS	Trichloroethene	µg/L	SW8260C	208	200.0	0	104	61-153				3/24/2013 1115h
1303596-008AMS	Xylenes, Total	µg/L	SW8260C	684	600.0	0	114	42-167				3/24/2013 1115h
1303596-008AMS	Surr: 1,2-Dichloroethane-d4	%REC	SW8260C	489	500.0		97.8	72-151				3/24/2013 1115h
1303596-008AMS	Surr: 4-Bromofluorobenzene	%REC	SW8260C	498	500.0		99.6	80-128				3/24/2013 1115h
1303596-008AMS	Surr: Dibromofluoromethane	%REC	SW8260C	494	500.0		98.7	80-124				3/24/2013 1115h
1303596-008AMS	Surr: Toluene-d8	%REC	SW8260C	505	500.0		101	77-129				3/24/2013 1115h

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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: 1303596
Project: MP 44.9 Incident

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
1303596-008AMSD	1,1,1-Trichloroethane	µg/L	SW8260C	209	200.0	0	104	67-147	3.43	25		3/24/2013 1134h
1303596-008AMSD	1,1-Dichloroethene	µg/L	SW8260C	201	200.0	0	101	51-152	3.46	25		3/24/2013 1134h
1303596-008AMSD	1,2-Dichlorobenzene	µg/L	SW8260C	207	200.0	0	104	70-130	0.913	25		3/24/2013 1134h
1303596-008AMSD	1,2-Dichloroethane	µg/L	SW8260C	197	200.0	0	98.4	39-162	0.507	25		3/24/2013 1134h
1303596-008AMSD	1,2-Dichloropropane	µg/L	SW8260C	200	200.0	0	100	59-135	0.646	25		3/24/2013 1134h
1303596-008AMSD	Benzene	µg/L	SW8260C	209	200.0	0	104	66-145	1.99	25		3/24/2013 1134h
1303596-008AMSD	Chlorobenzene	µg/L	SW8260C	206	200.0	0	103	63-140	2.88	25		3/24/2013 1134h
1303596-008AMSD	Chloroform	µg/L	SW8260C	203	200.0	0	102	50-146	1.37	25		3/24/2013 1134h
1303596-008AMSD	Ethylbenzene	µg/L	SW8260C	214	200.0	0	107	69-133	3.09	25		3/24/2013 1134h
1303596-008AMSD	Isopropylbenzene	µg/L	SW8260C	218	200.0	0	109	60-147	2.94	25		3/24/2013 1134h
1303596-008AMSD	Methyl tert-butyl ether	µg/L	SW8260C	198	200.0	0	99.2	37-189	0	25		3/24/2013 1134h
1303596-008AMSD	Methylene chloride	µg/L	SW8260C	196	200.0	0	97.8	30-192	2.77	25		3/24/2013 1134h
1303596-008AMSD	Naphthalene	µg/L	SW8260C	220	200.0	0	110	41-131	1.01	25		3/24/2013 1134h
1303596-008AMSD	Tetrahydrofuran	µg/L	SW8260C	195	200.0	0	97.6	43-146	4.45	25		3/24/2013 1134h
1303596-008AMSD	Toluene	µg/L	SW8260C	212	200.0	0	106	18-192	3.24	25		3/24/2013 1134h
1303596-008AMSD	Trichloroethene	µg/L	SW8260C	203	200.0	0	102	61-153	2.38	25		3/24/2013 1134h
1303596-008AMSD	Xylenes, Total	µg/L	SW8260C	671	600.0	0	112	42-167	1.89	25		3/24/2013 1134h
1303596-008AMSD	Surr: 1,2-Dichloroethane-d4	%REC	SW8260C	495	500.0		99.0	72-151				3/24/2013 1134h
1303596-008AMSD	Surr: 4-Bromofluorobenzene	%REC	SW8260C	494	500.0		98.9	80-128				3/24/2013 1134h
1303596-008AMSD	Surr: Dibromofluoromethane	%REC	SW8260C	504	500.0		101	80-124				3/24/2013 1134h
1303596-008AMSD	Surr: Toluene-d8	%REC	SW8260C	506	500.0		101	77-129				3/24/2013 1134h

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Software Version	: 6.3.1.0504	Date	: 3/25/2013 2:57:29 PM
Sample Name	: 1303596-001D	Data Acquisition Time	: 3/25/2013 12:17:28 AM
Instrument Name	: 900 interface	Channel	: B
Rack/Vial	: 0/0	Operator	: awaluser
Sample Amount	: 1.000000	Dilution Factor	: 1.000000
Cycle	: 21		

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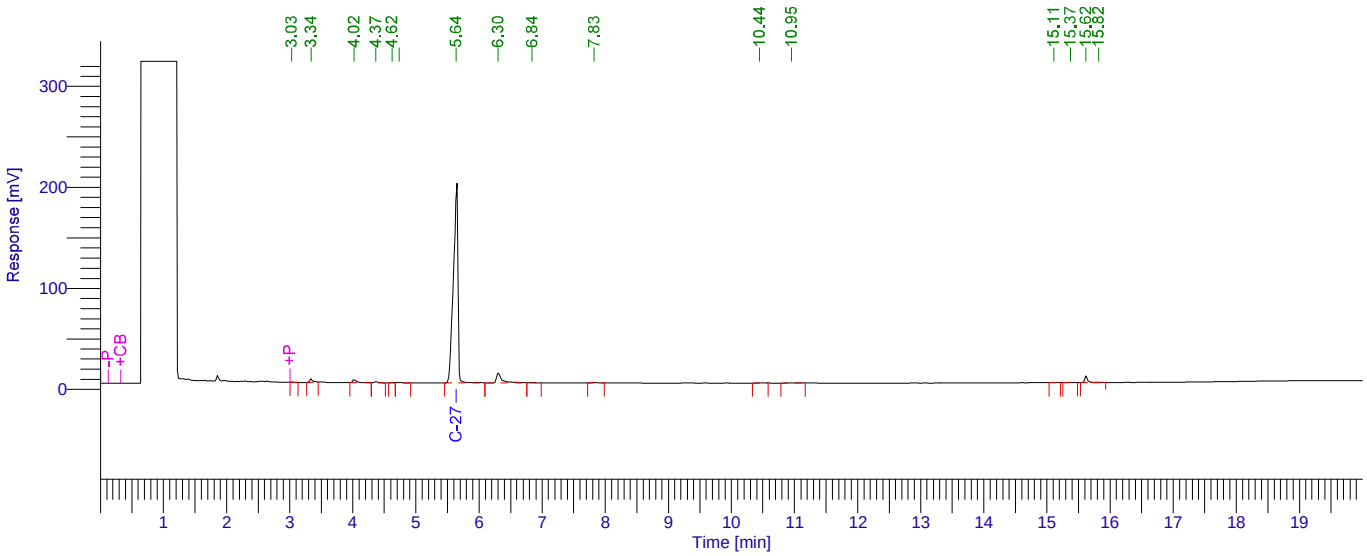

ORO Analysis (FID)

capillary column gas chromatography
instrument: GC#2 HP5890 Series II Plus
column: Zebron ZB-5HT
column dimensions: 30m X 0.53mm X 0.15µm
carrier gas: Helium
oven temp prgrm: 180C/0min @ 30C/min to 220C/0.00min
20C/min to 360 hold 1.67
injection temp: 340C detector temp: 360C Range: 2 injection amount: 5µL

time [min]	component name	height [µV]	area [µV·s]	raw amt µg/mL	target µg/mL	% recs	
5.638	C-27	192115	990620	98.73536	100.00	98.7	
11.311	ORO	7878	34135	8.81380	100.00	8.8	<PQL
						107.5	

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Sample Name	: 1303596-002D	Data Acquisition Time	: 3/25/2013 12:41:13 AM
Instrument Name	: 900 interface	Channel	: B
Rack/Vial	: 0/0	Operator	: awaluser
Sample Amount	: 1.000000	Dilution Factor	: 1.000000
Cycle	: 22		

Result File : C:\gc#2\ORO\0324g022.rst
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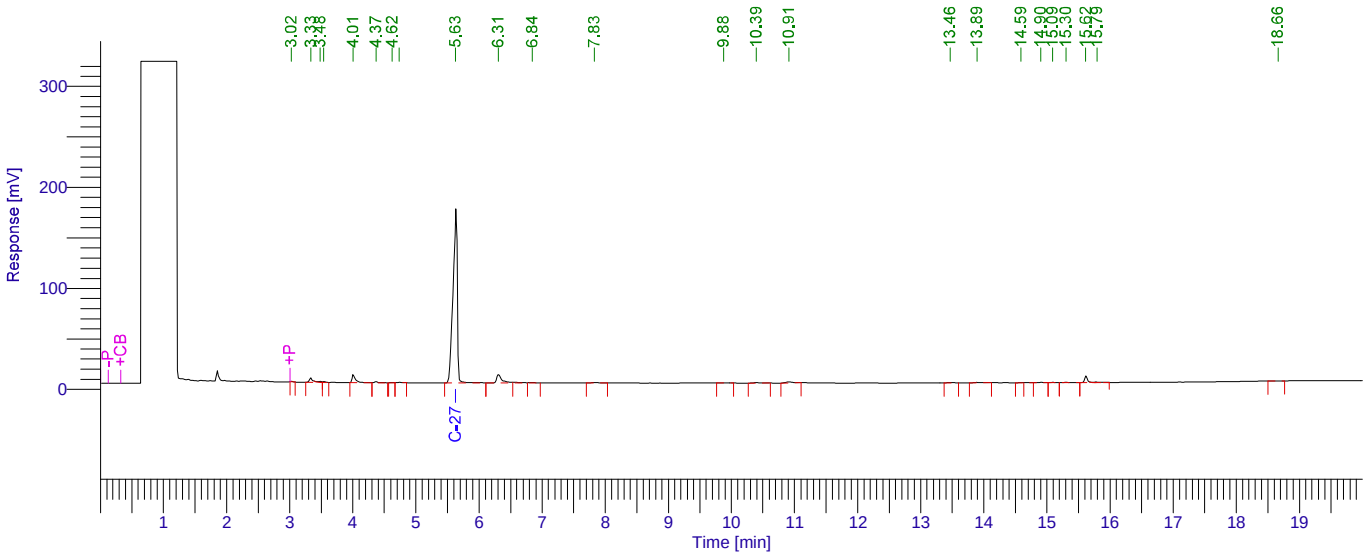

ORO Analysis (FID)

capillary column gas chromatography
instrument: GC#2 HP5890 Series II Plus
column: Zebron ZB-5HT
column dimensions: 30m X 0.53mm X 0.15µm
carrier gas: Helium
oven temp prgrm: 180C/0min @ 30C/min to 220C/0.00min
20C/min to 360 hold 1.67
injection temp: 340C detector temp: 360C Range: 2 injection amount: 5µL

time [min]	component name	height [µV]	area [µV·s]	raw amt µg/mL	target µg/mL	% recs
5.627	C-27	173543	823482	82.66837	100.00	82.7
11.311	ORO	11048	54112	10.71583	100.00	10.7<PQL
						93.4

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Software Version	: 6.3.1.0504	Date	: 3/25/2013 2:58:29 PM
Sample Name	: 1303596-005D	Data Acquisition Time	: 3/25/2013 1:04:57 AM
Instrument Name	: 900 interface	Channel	: B
Rack/Vial	: 0/0	Operator	: awaluser
Sample Amount	: 1.000000	Dilution Factor	: 1.000000
Cycle	: 23		

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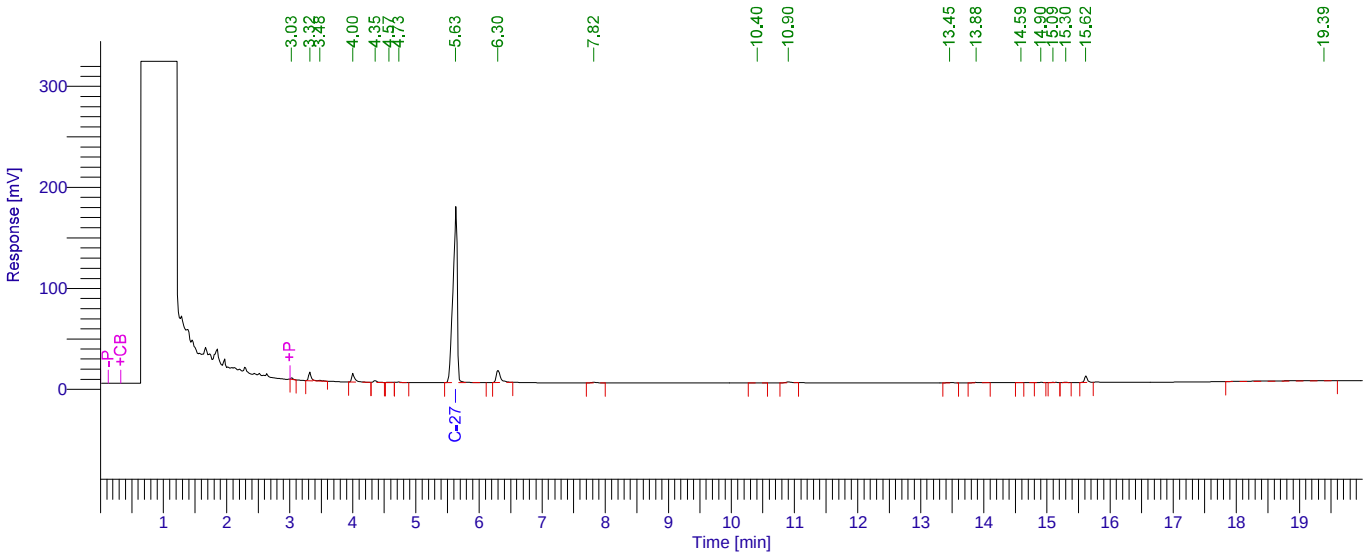


ORO Analysis (FID)

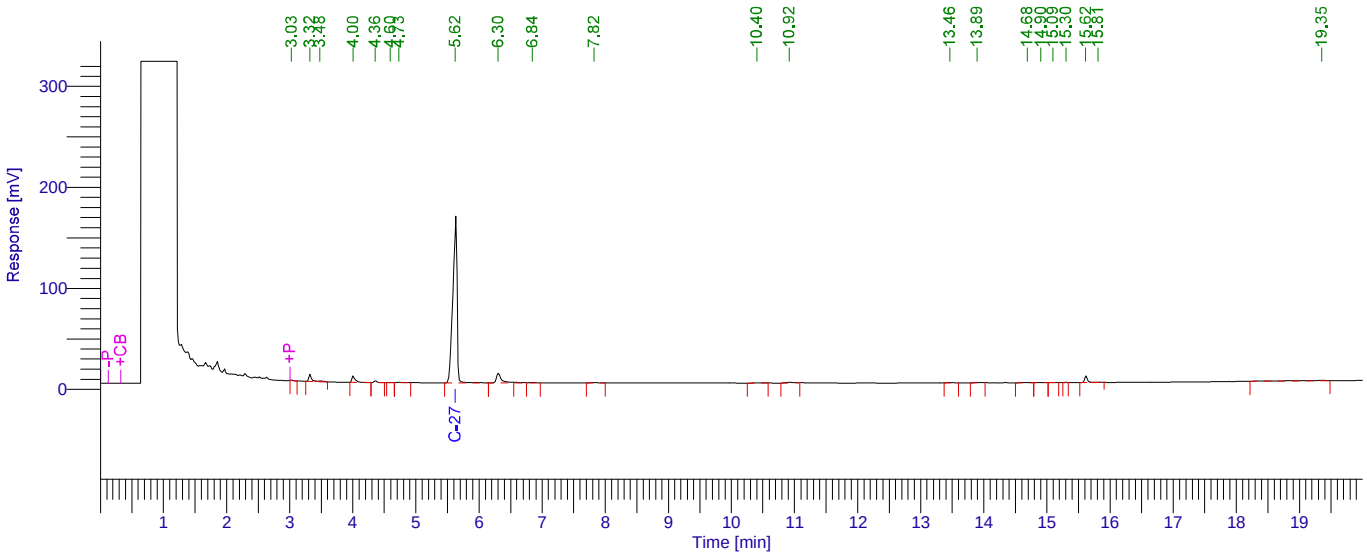
capillary column gas chromatography
instrument: GC#2 HP5890 Series II Plus
column: Zebron ZB-5HT
column dimensions: 30m X 0.53mm X 0.15µm
carrier gas: Helium
oven temp prgrm: 180C/0min @ 30C/min to 220C/0.00min
20C/min to 360 hold 1.67
injection temp: 340C detector temp: 360C Range: 2 injection amount: 5µL

time [min]	component name	height [µV]	area [µV·s]	raw amt µg/mL	target µg/mL	% recs	
5.627	C-27	175102	838608	84.12397	100.00	84.1	
11.311	ORO	9546	41905	9.55370	100.00	9.6	<PQL
						93.7	

Report stored in ASCII file: C:\gc#2\ORO\0324g023.TX0

Software Version	: 6.3.1.0504	Date	: 3/25/2013 2:58:53 PM
Sample Name	: 1303596-006D	Data Acquisition Time	: 3/25/2013 1:28:40 AM
Instrument Name	: 900 interface	Channel	: B
Rack/Vial	: 0/0	Operator	: awaluser
Sample Amount	: 1.000000	Dilution Factor	: 1.000000
Cycle	: 24		

Result File : C:\gc#2\ORO\0324g024.rst
Sequence File : C:\sequences\0324-ORO.seq



ORO Analysis (FID)

capillary column gas chromatography
instrument: GC#2 HP5890 Series II Plus
column: Zebron ZB-5HT
column dimensions: 30m X 0.53mm X 0.15µm
carrier gas: Helium
oven temp prgrm: 180C/0min @ 30C/min to 220C/0.00min
20C/min to 360 hold 1.67
injection temp: 340C detector temp: 360C Range: 2 injection amount: 5µL

time [min]	component name	height [µV]	area [µV·s]	raw amt µg/mL	target µg/mL	% recs	
5.625	C-27	162950	774423	77.94545	100.00	77.9	
11.311	ORO	9586	42764	9.63546	100.00	9.6	<PQL
						87.6	

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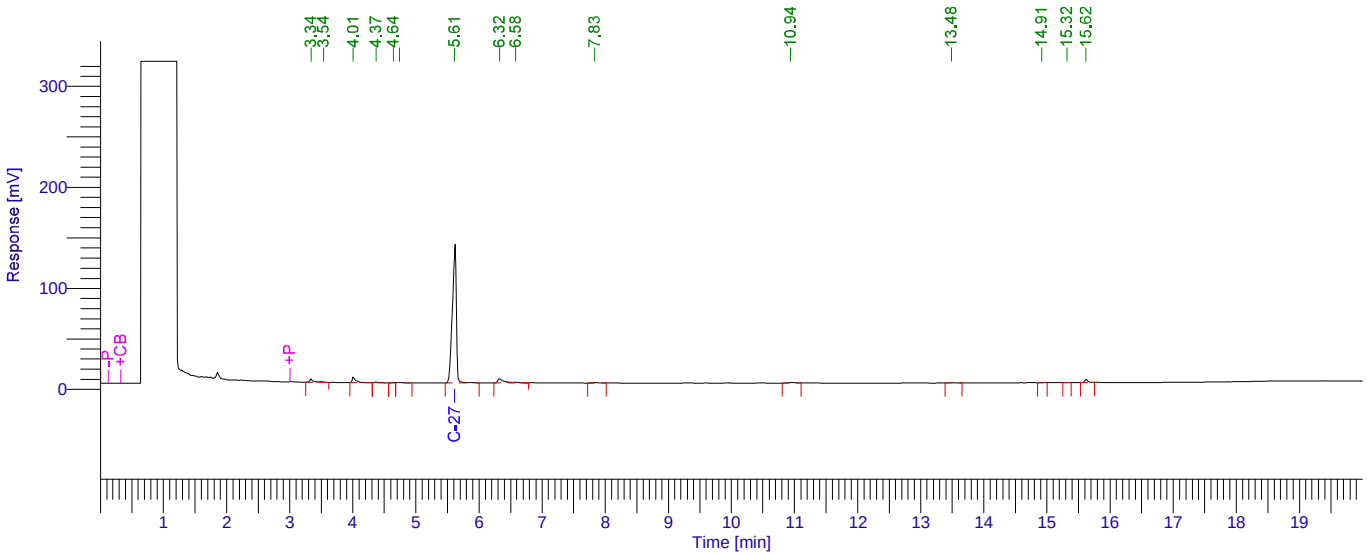
Software Version	: 6.3.1.0504	Date	: 3/25/2013 2:59:16 PM
Sample Name	: 1303596-007D	Data Acquisition Time	: 3/25/2013 2:39:52 AM
Instrument Name	: 900 interface	Channel	: B
Rack/Vial	: 0/0	Operator	: awaluser
Sample Amount	: 1.000000	Dilution Factor	: 1.000000
Cycle	: 27		

Result File : C:\gc#2\ORO\0324g027.rst
Sequence File : C:\sequences\0324-ORO.seq



ORO Analysis (FID)

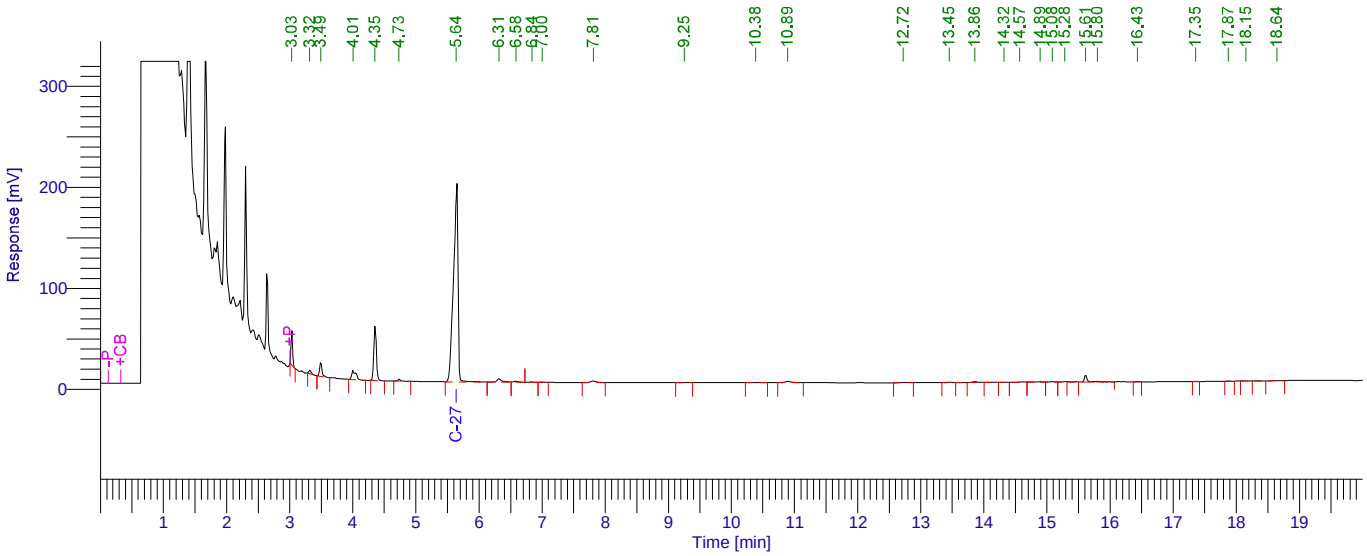
capillary column gas chromatography
instrument: GC#2 HP5890 Series II Plus
column: Zebron ZB-5HT
column dimensions: 30m X 0.53mm X 0.15µm
carrier gas: Helium
oven temp prgrm: 180C/0min @ 30C/min to 220C/0.00min
20C/min to 360 hold 1.67
injection temp: 340C detector temp: 360C Range: 2 injection amount: 5µL

time [min]	component name	height [µV]	area [µV·s]	raw amt µg/mL	target µg/mL	% recs	
5.612	C-27	137426	608564	61.95401	100.00	62.0	
11.311	ORO	5097	24397	7.88648	100.00	7.9	<PQL
						69.8	

Report stored in ASCII file: C:\gc#2\ORO\0324g027.TX0

Software Version	: 6.3.1.0504	Date	: 3/25/2013 2:59:37 PM
Sample Name	: 1303596-008D	Data Acquisition Time	: 3/25/2013 3:03:31 AM
Instrument Name	: 900 interface	Channel	: B
Rack/Vial	: 0/0	Operator	: awaluser
Sample Amount	: 1.000000	Dilution Factor	: 1.000000
Cycle	: 28		

Result File : C:\gc#2\ORO\0324g028.rst
Sequence File : C:\sequences\0324-ORO.seq



ORO Analysis (FID)

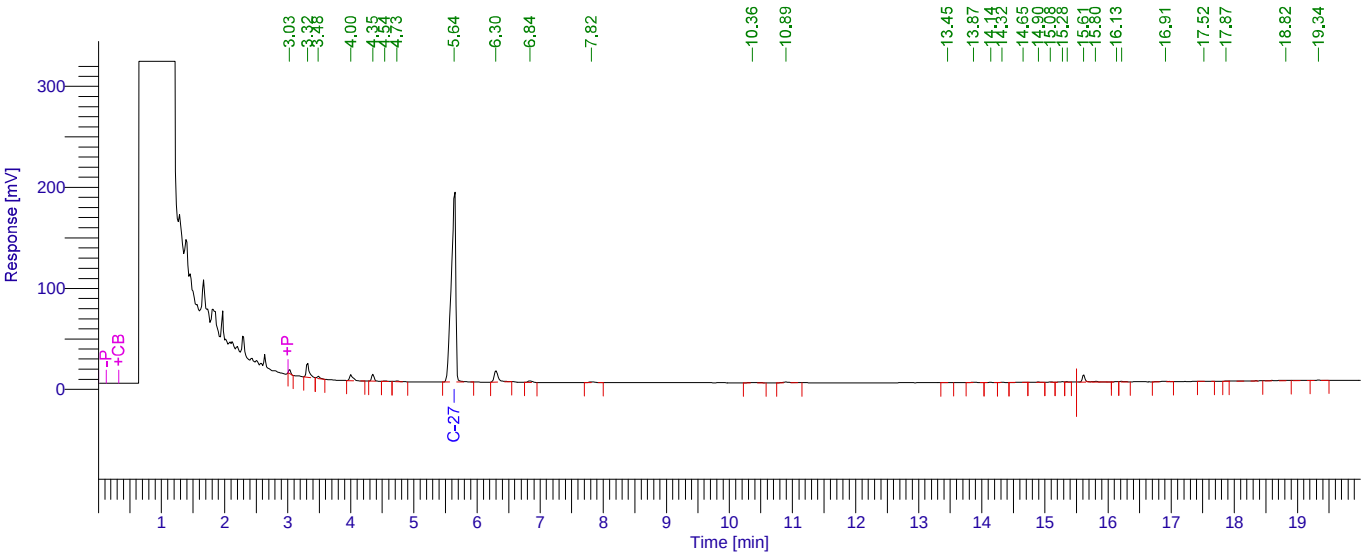
capillary column gas chromatography
instrument: GC#2 HP5890 Series II Plus
column: Zebron ZB-5HT
column dimensions: 30m X 0.53mm X 0.15µm
carrier gas: Helium
oven temp prgrm: 180C/0min @ 30C/min to 220C/0.00min
20C/min to 360 hold 1.67
injection temp: 340C detector temp: 360C Range: 2 injection amount: 5µL

time [min]	component name	height [µV]	area [µV·s]	raw amt µg/mL	target µg/mL	% recs	
5.639	C-27	191261	972002	96.94745	100.00	96.9	
11.311	ORO	14411	74556	12.66164	100.00	12.7	<PQL
						109.6	

Report stored in ASCII file: C:\gc#2\ORO\0324g028.TX0

Software Version	: 6.3.1.0504	Date	: 3/25/2013 2:59:58 PM
Sample Name	: 1303596-009D	Data Acquisition Time	: 3/25/2013 3:27:13 AM
Instrument Name	: 900 interface	Channel	: B
Rack/Vial	: 0/0	Operator	: awaluser
Sample Amount	: 1.000000	Dilution Factor	: 1.000000
Cycle	: 29		

Result File : C:\gc#2\ORO\0324g029.rst
Sequence File : C:\sequences\0324-ORO.seq



ORO Analysis (FID)

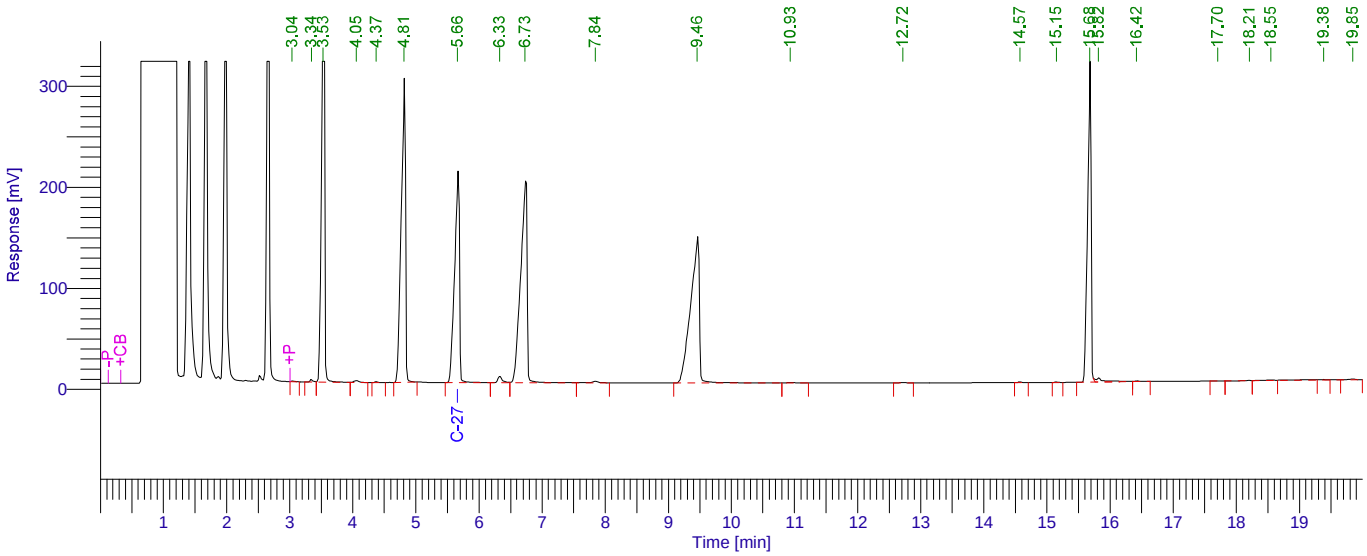
capillary column gas chromatography
instrument: GC#2 HP5890 Series II Plus
column: Zebron ZB-5HT
column dimensions: 30m X 0.53mm X 0.15µm
carrier gas: Helium
oven temp prgrm: 180C/0min @ 30C/min to 220C/0.00min
20C/min to 360 hold 1.67
injection temp: 340C detector temp: 360C Range: 2 injection amount: 5µL

time [min]	component name	height [µV]	area [µV·s]	raw amt µg/mL	target µg/mL	% recs
5.636	C-27	183322	950135	94.84684	100.00	94.8
11.311	ORO	14174	67906	12.02872	100.00	12.0<PQL
						106.9

Report stored in ASCII file: C:\gc#2\ORO\0324g029.TX0

Software Version	: 6.3.1.0504	Date	: 3/25/2013 2:48:07 PM
Sample Name	: LCS-24323	Data Acquisition Time	: 3/24/2013 5:33:30 PM
Instrument Name	: 900 interface	Channel	: B
Rack/Vial	: 0/0	Operator	: awaluser
Sample Amount	: 1.000000	Dilution Factor	: 1.000000
Cycle	: 4		

Result File : C:\gc#2\ORO\0324g004.rst
Sequence File : C:\sequences\0324-ORO.seq



ORO Analysis (FID)

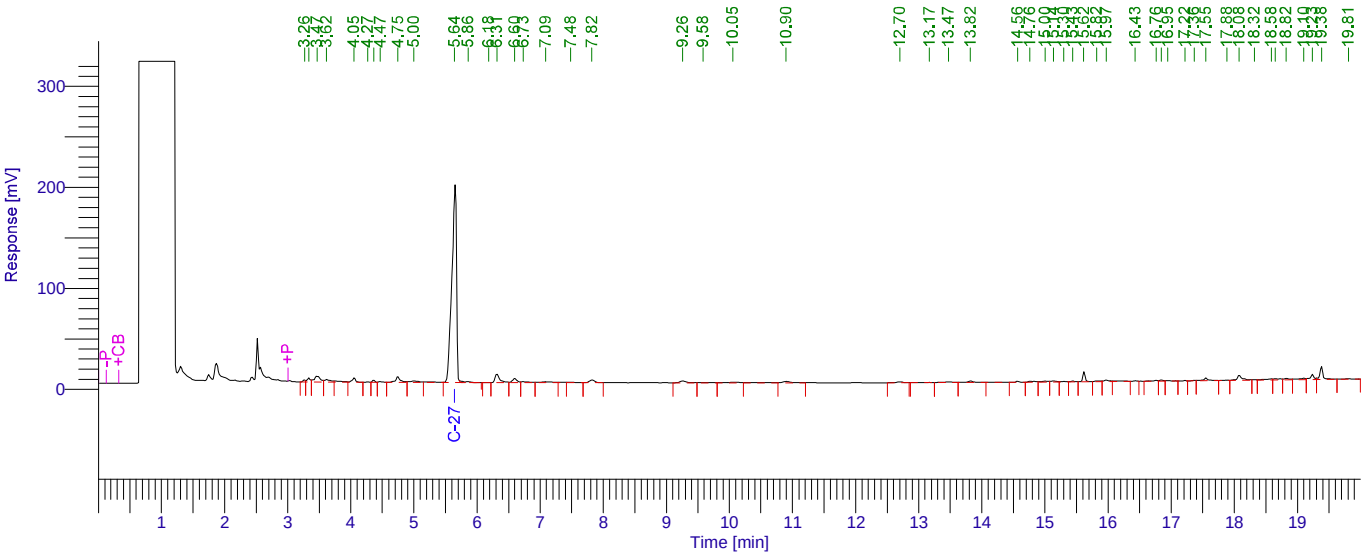
capillary column gas chromatography
instrument: GC#2 HP5890 Series II Plus
column: Zebron ZB-5HT
column dimensions: 30m X 0.53mm X 0.15µm
carrier gas: Helium
oven temp prgrm: 180C/0min @ 30C/min to 220C/0.00min
20C/min to 360 hold 1.67
injection temp: 340C detector temp: 360C Range: 2 injection amount: 5µL

time [min]	component name	height [µV]	area [µV·s]	raw amt µg/mL	target µg/mL	% recs
5.660	C-27	213465	1107662	1.10e+02	100.00	110.0
11.311	ORO	689235	4190494	3.95e+02	100.00	394.6
						504.6

Report stored in ASCII file: C:\gc#2\ORO\0324g004.TX0

Software Version	: 6.3.1.0504	Date	: 3/25/2013 2:47:32 PM
Sample Name	: MB-24323	Data Acquisition Time	: 3/24/2013 5:09:44 PM
Instrument Name	: 900 interface	Channel	: B
Rack/Vial	: 0/0	Operator	: awaluser
Sample Amount	: 1.000000	Dilution Factor	: 1.000000
Cycle	: 3		

Result File : C:\gc#2\ORO\0324g003.rst
Sequence File : C:\sequences\0324-ORO.seq



ORO Analysis (FID)

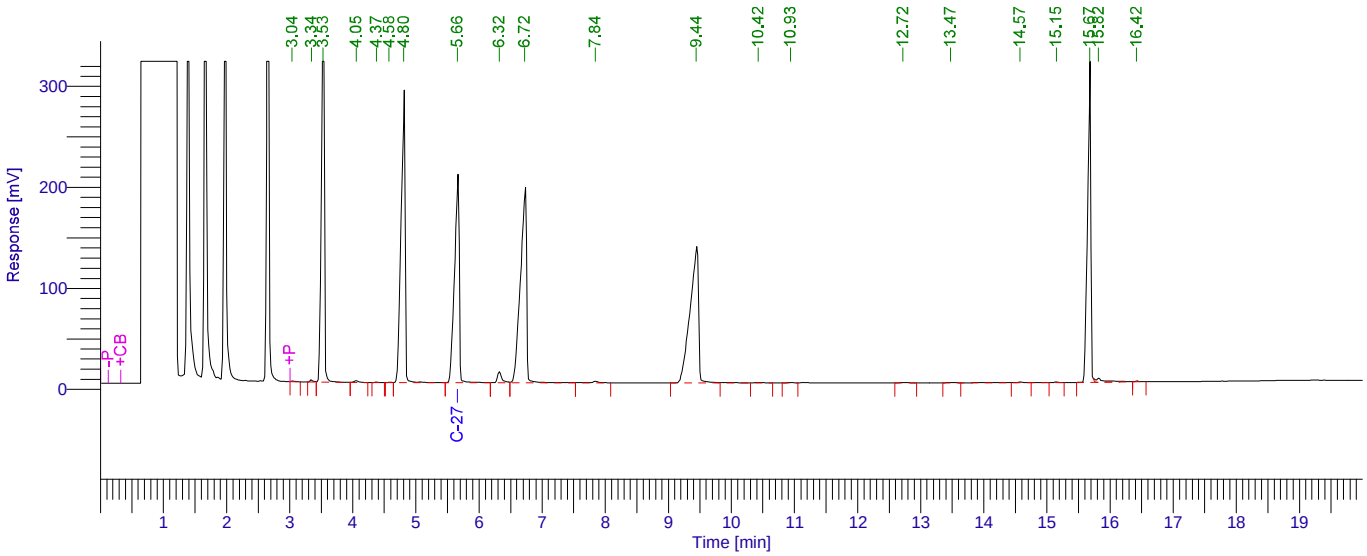
capillary column gas chromatography
instrument: GC#2 HP5890 Series II Plus
column: Zebron ZB-5HT
column dimensions: 30m X 0.53mm X 0.15µm
carrier gas: Helium
oven temp prgrm: 180C/0min @ 30C/min to 220C/0.00min
20C/min to 360 hold 1.67
injection temp: 340C detector temp: 360C Range: 2 injection amount: 5µL

time [min]	component name	height [µV]	area [µV·s]	raw amt µg/mL	target µg/mL	% recs	
5.645	C-27	201355	1005165	1.00e+02	100.00	100.1	
11.311	ORO	33394	210595	25.59564	100.00	25.6	<PQL
						125.7	

Report stored in ASCII file: C:\gc#2\ORO\0324g003.TX0

Software Version	: 6.3.1.0504	Date	: 3/25/2013 2:49:32 PM
Sample Name	: 1303513-002DMS	Data Acquisition Time	: 3/24/2013 6:44:49 PM
Instrument Name	: 900 interface	Channel	: B
Rack/Vial	: 0/0	Operator	: awaluser
Sample Amount	: 1.000000	Dilution Factor	: 1.000000
Cycle	: 7		

Result File : C:\gc#2\ORO\0324g007.rst
Sequence File : C:\sequences\0324-ORO.seq



ORO Analysis (FID)

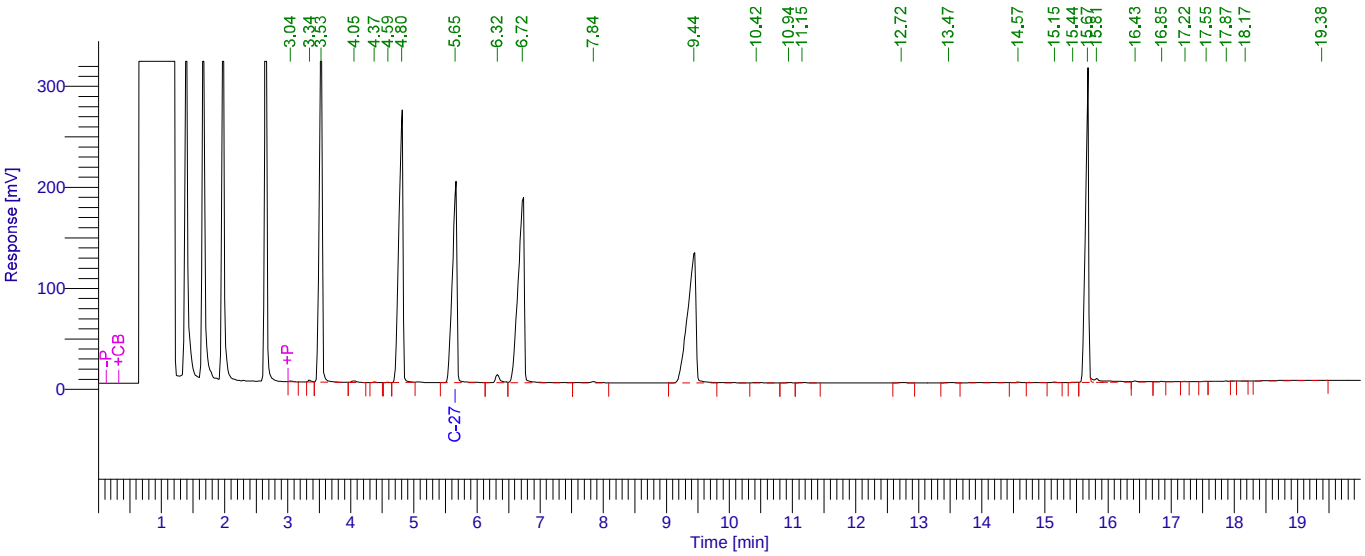
capillary column gas chromatography
instrument: GC#2 HP5890 Series II Plus
column: Zebron ZB-5HT
column dimensions: 30m X 0.53mm X 0.15µm
carrier gas: Helium
oven temp prgrm: 180C/0min @ 30C/min to 220C/0.00min
20C/min to 360 hold 1.67
injection temp: 340C detector temp: 360C Range: 2 injection amount: 5µL

time [min]	component name	height [µV]	area [µV·s]	raw amt µg/mL	target µg/mL	% recs
5.657	C-27	204517	1060442	1.05e+02	100.00	105.4
11.311	ORO	641829	3863400	3.65e+02	100.00	364.9
						470.3

Report stored in ASCII file: C:\gc#2\ORO\0324g007.TX0

Software Version	: 6.3.1.0504	Date	: 3/25/2013 2:50:04 PM
Sample Name	: 1303513-002DMSD	Data Acquisition Time	: 3/24/2013 7:08:32 PM
Instrument Name	: 900 interface	Channel	: B
Rack/Vial	: 0/0	Operator	: awaluser
Sample Amount	: 1.000000	Dilution Factor	: 1.000000
Cycle	: 8		

Result File : C:\gc#2\ORO\0324g008.rst
Sequence File : C:\sequences\0324-ORO.seq



ORO Analysis (FID)

capillary column gas chromatography
instrument: GC#2 HP5890 Series II Plus
column: Zebron ZB-5HT
column dimensions: 30m X 0.53mm X 0.15µm
carrier gas: Helium
oven temp prgrm: 180C/0min @ 30C/min to 220C/0.00min
20C/min to 360 hold 1.67
injection temp: 340C detector temp: 360C Range: 2 injection amount: 5µL

time [min]	component name	height [µV]	area [µV·s]	raw amt µg/mL	target µg/mL	% recs
5.653	C-27	191486	1002084	99.83613	100.00	99.8
11.311	ORO	599209	3658819	3.46e+02	100.00	346.2
						446.1

Report stored in ASCII file: C:\gc#2\ORO\0324g008.TX0

Data File C:\CHEM32\1\DATA\0319-TPH 2013-03-23 12-56-24\023F2501.D
Sample Name: 1303596-001C

==========

Acq. Operator : Seq. Line : 25
Acq. Instrument : GC C Location : Vial 23
Injection Date : 3/23/2013 8:37:54 PM Inj : 1
Inj Volume : 5 µl
Acq. Method : C:\CHEM32\1\DATA\0319-TPH 2013-03-23 12-56-24\TPH-FRONT-1090171B.M
Last changed : 3/14/2013 1:57:38 PM
Analysis Method : C:\CHEM32\1\DATA\0319-TPH 2013-03-23 12-56-24\TPH-FRONT-1090171B.M (Sequence Method)
Last changed : 3/24/2013 9:10:14 AM

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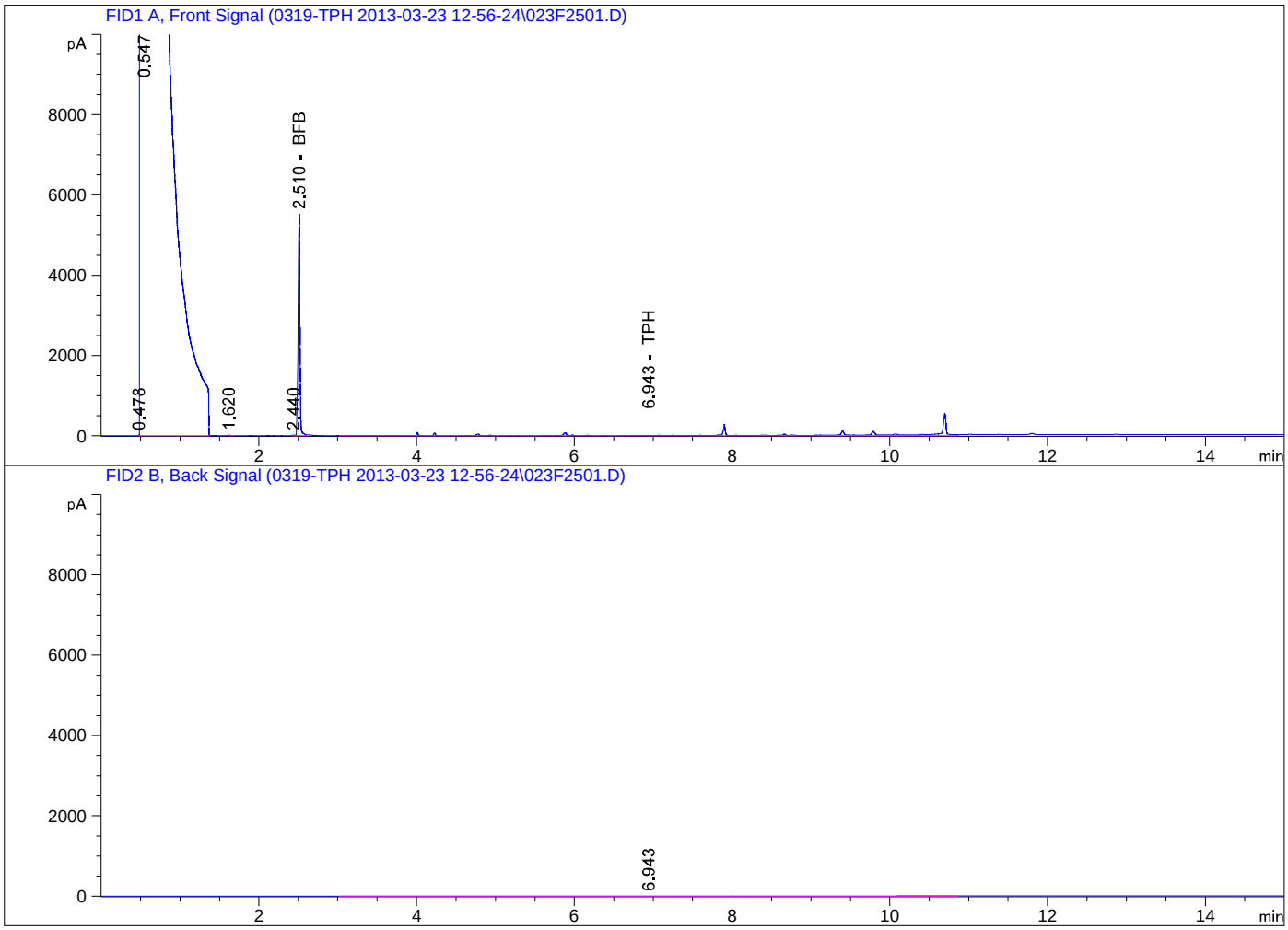

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External Standard Report

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Sorted By : Signal
Calib. Data Modified : 3/23/2013 9:21:39 PM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Data File C:\CHEM32\1\DATA\0319-TPH 2013-03-23 12-56-24\024F2601.D
Sample Name: 1303596-002C

==========

Acq. Operator : Seq. Line : 26
Acq. Instrument : GC C Location : Vial 24
Injection Date : 3/23/2013 8:57:03 PM Inj : 1
Inj Volume : 5 µl
Acq. Method : C:\CHEM32\1\DATA\0319-TPH 2013-03-23 12-56-24\TPH-FRONT-1090171B.M
Last changed : 3/14/2013 1:57:38 PM
Analysis Method : C:\CHEM32\1\DATA\0319-TPH 2013-03-23 12-56-24\TPH-FRONT-1090171B.M (Sequence Method)
Last changed : 3/24/2013 9:10:14 AM

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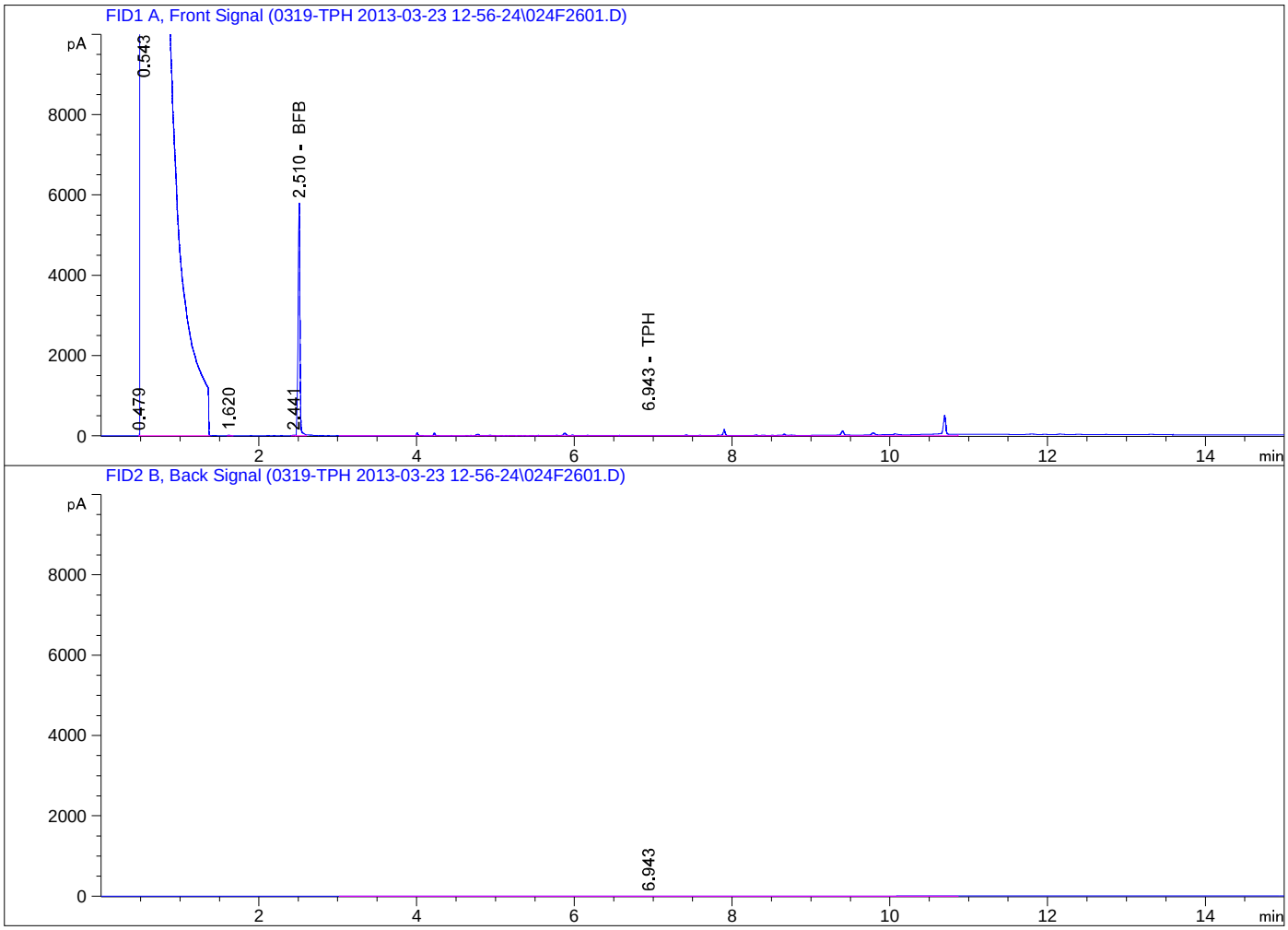

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External Standard Report

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Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Data File C:\CHEM32\1\DATA\0319-TPH 2013-03-23 12-56-24\025F2701.D
Sample Name: 1303596-005C

==========

Acq. Operator : Seq. Line : 27
Acq. Instrument : GC C Location : Vial 25
Injection Date : 3/23/2013 9:16:08 PM Inj : 1
Inj Volume : 5 µl
Acq. Method : C:\CHEM32\1\DATA\0319-TPH 2013-03-23 12-56-24\TPH-FRONT-1090171B.M
Last changed : 3/14/2013 1:57:38 PM
Analysis Method : C:\CHEM32\1\DATA\0319-TPH 2013-03-23 12-56-24\TPH-FRONT-1090171B.M (Sequence Method)
Last changed : 3/24/2013 9:10:14 AM

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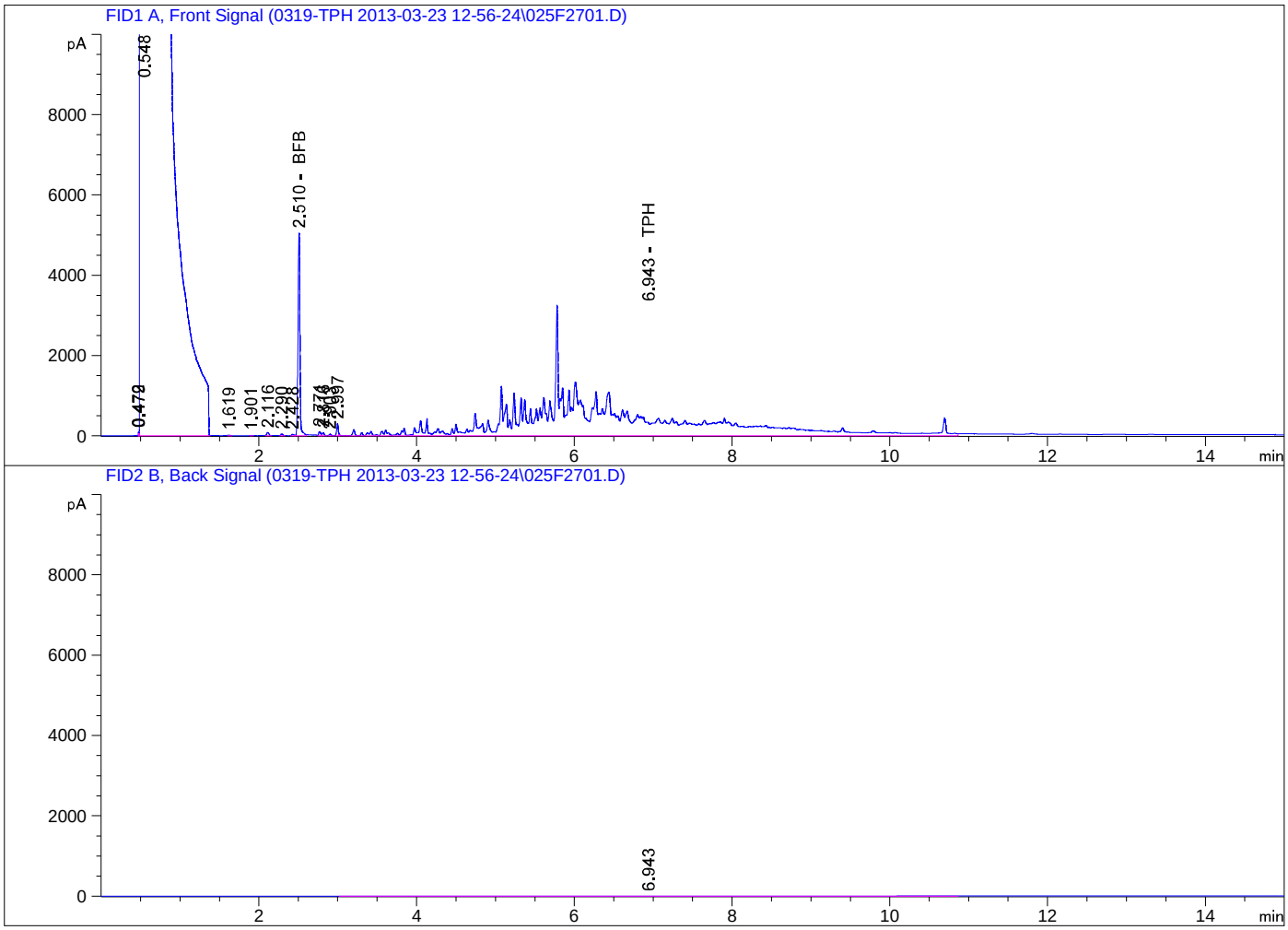

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External Standard Report

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Sorted By : Signal
Calib. Data Modified : 3/23/2013 9:21:39 PM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Data File C:\CHEM32\1\DATA\0319-TPH 2013-03-23 12-56-24\026F2801.D
Sample Name: 1303596-006C

==========

Acq. Operator : Seq. Line : 28
Acq. Instrument : GC C Location : Vial 26
Injection Date : 3/23/2013 9:35:11 PM Inj : 1
Inj Volume : 5 µl
Acq. Method : C:\CHEM32\1\DATA\0319-TPH 2013-03-23 12-56-24\TPH-FRONT-1090171B.M
Last changed : 3/14/2013 1:57:38 PM
Analysis Method : C:\CHEM32\1\DATA\0319-TPH 2013-03-23 12-56-24\TPH-FRONT-1090171B.M (Sequence Method)
Last changed : 3/24/2013 9:10:14 AM

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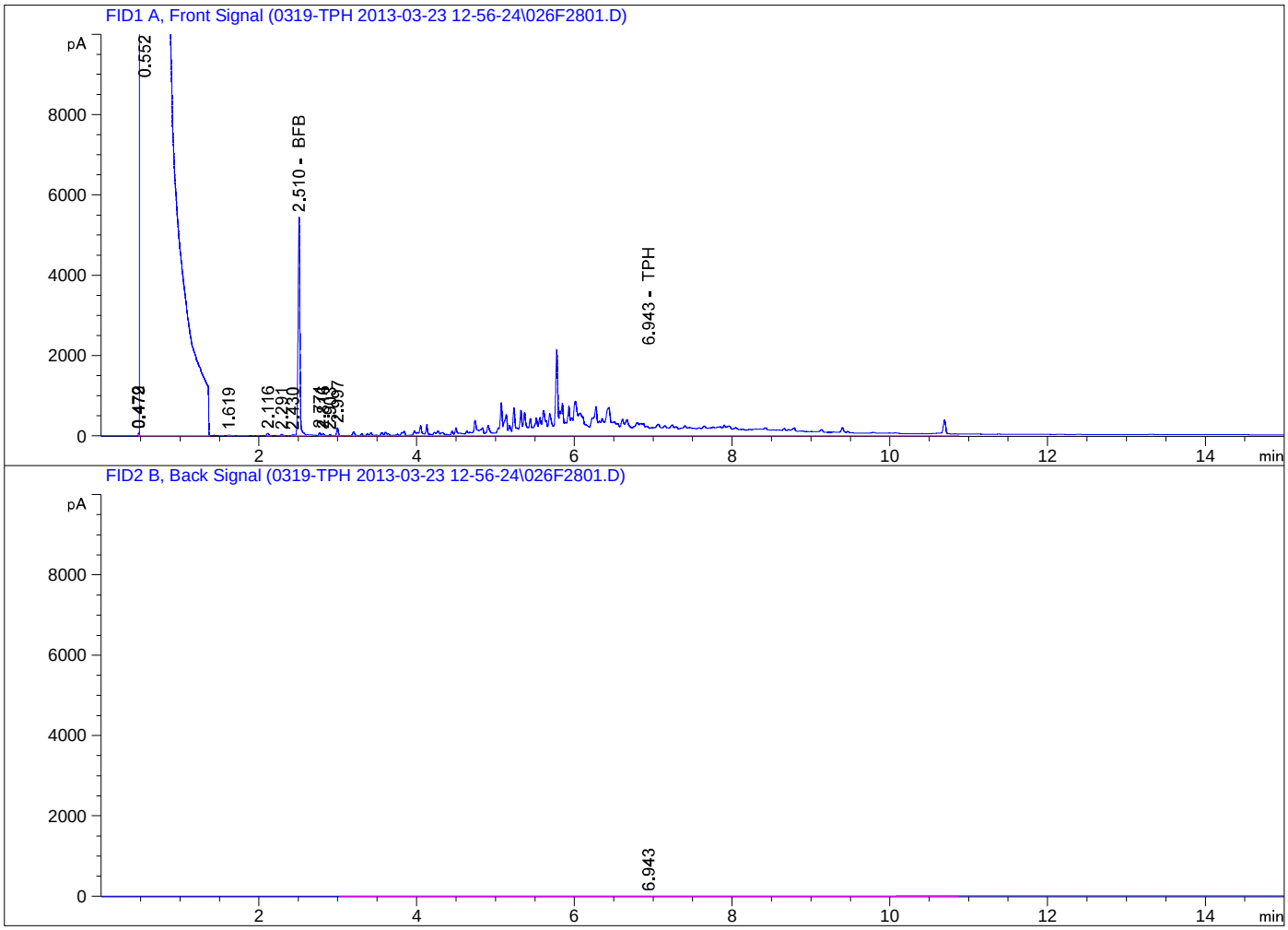

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External Standard Report

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Sorted By : Signal
Calib. Data Modified : 3/23/2013 9:21:39 PM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Data File C:\CHEM32\1\DATA\0319-TPH 2013-03-23 12-56-24\027F2901.D
Sample Name: 1303596-007C

==========

Acq. Operator : Seq. Line : 29
Acq. Instrument : GC C Location : Vial 27
Injection Date : 3/23/2013 9:54:22 PM Inj : 1
Inj Volume : 5 µl
Acq. Method : C:\CHEM32\1\DATA\0319-TPH 2013-03-23 12-56-24\TPH-FRONT-1090171B.M
Last changed : 3/14/2013 1:57:38 PM
Analysis Method : C:\CHEM32\1\DATA\0319-TPH 2013-03-23 12-56-24\TPH-FRONT-1090171B.M (Sequence Method)
Last changed : 3/24/2013 9:10:14 AM

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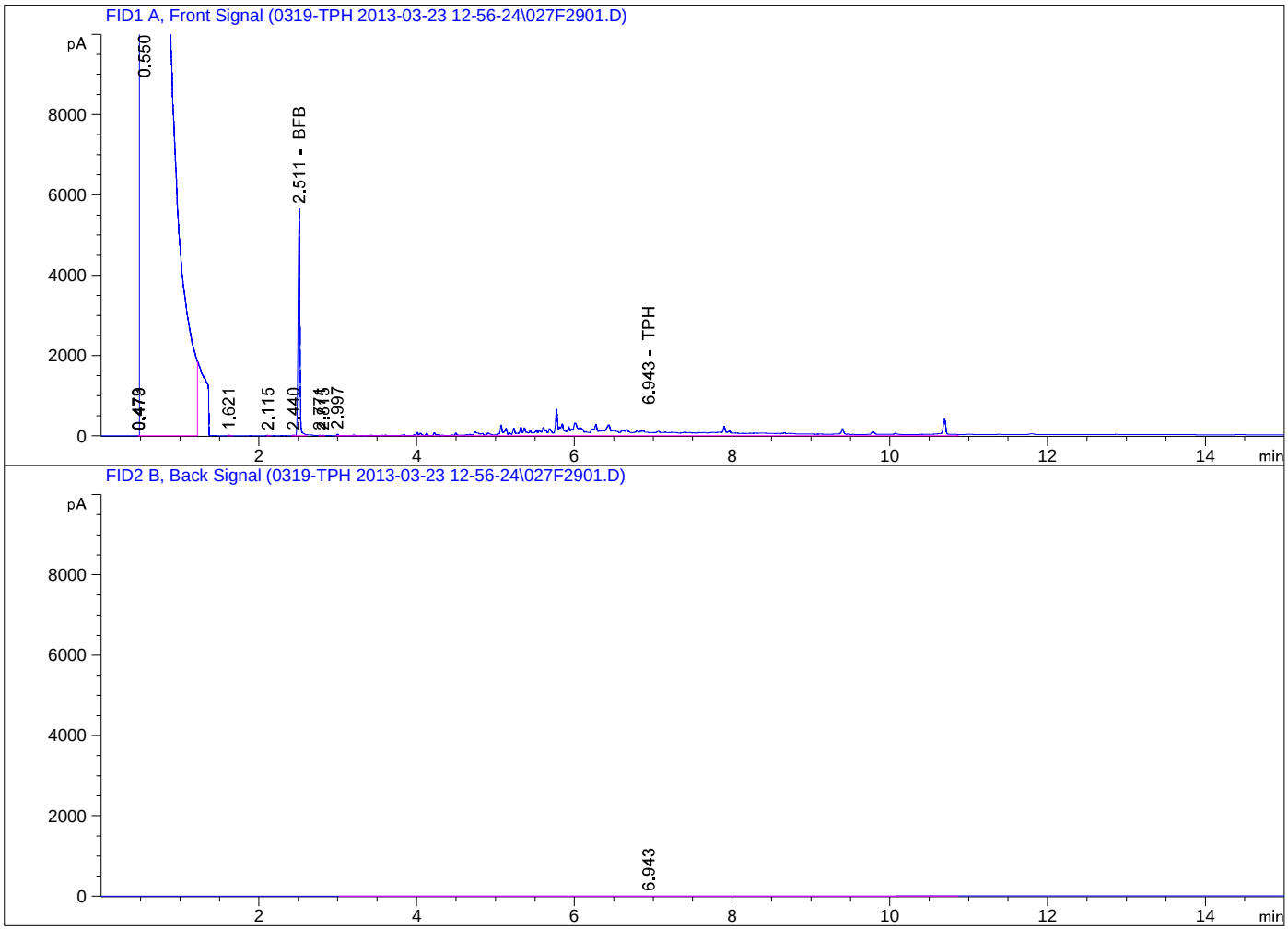

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External Standard Report

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Sorted By : Signal
Calib. Data Modified : 3/23/2013 9:21:39 PM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Data File C:\CHEM32\1\DATA\0319-TPH 2013-03-23 12-56-24\028F3001.D
Sample Name: 1303596-008C

==========

Acq. Operator : Seq. Line : 30
Acq. Instrument : GC C Location : Vial 28
Injection Date : 3/23/2013 10:13:27 PM Inj : 1
Inj Volume : 5 µl
Acq. Method : C:\CHEM32\1\DATA\0319-TPH 2013-03-23 12-56-24\TPH-FRONT-1090171B.M
Last changed : 3/14/2013 1:57:38 PM
Analysis Method : C:\CHEM32\1\DATA\0319-TPH 2013-03-23 12-56-24\TPH-FRONT-1090171B.M (Sequence Method)
Last changed : 3/24/2013 9:10:14 AM

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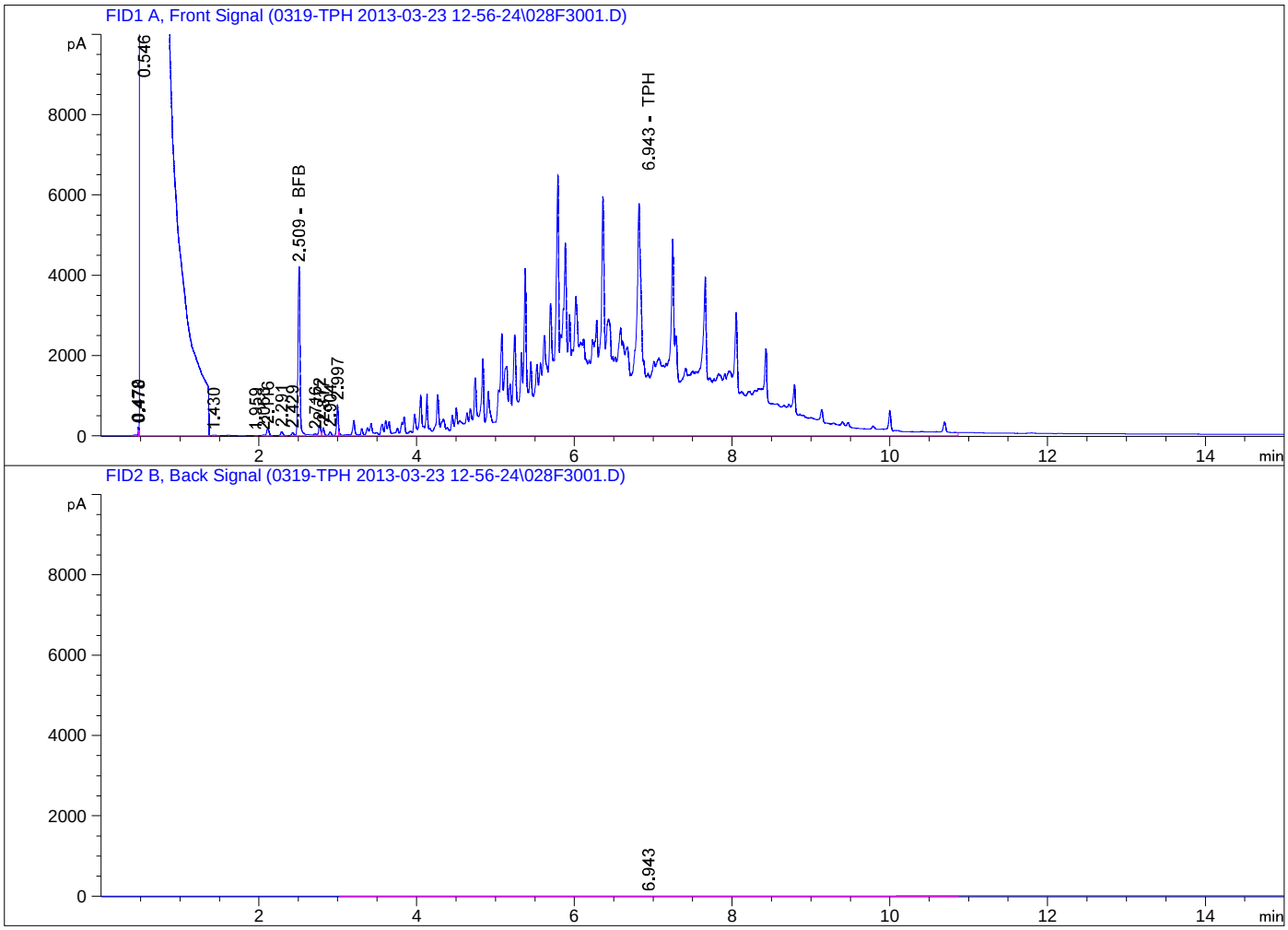

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External Standard Report

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Sorted By : Signal
Calib. Data Modified : 3/23/2013 9:21:39 PM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Data File C:\CHEM32\1\DATA\0319-TPH 2013-03-23 12-56-24\029F3101.D
Sample Name: 1303596-009C

==========

Acq. Operator : Seq. Line : 31
Acq. Instrument : GC C Location : Vial 29
Injection Date : 3/23/2013 10:32:35 PM Inj : 1
Inj Volume : 5 µl
Acq. Method : C:\CHEM32\1\DATA\0319-TPH 2013-03-23 12-56-24\TPH-FRONT-1090171B.M
Last changed : 3/14/2013 1:57:38 PM
Analysis Method : C:\CHEM32\1\DATA\0319-TPH 2013-03-23 12-56-24\TPH-FRONT-1090171B.M (Sequence Method)
Last changed : 3/24/2013 9:10:14 AM

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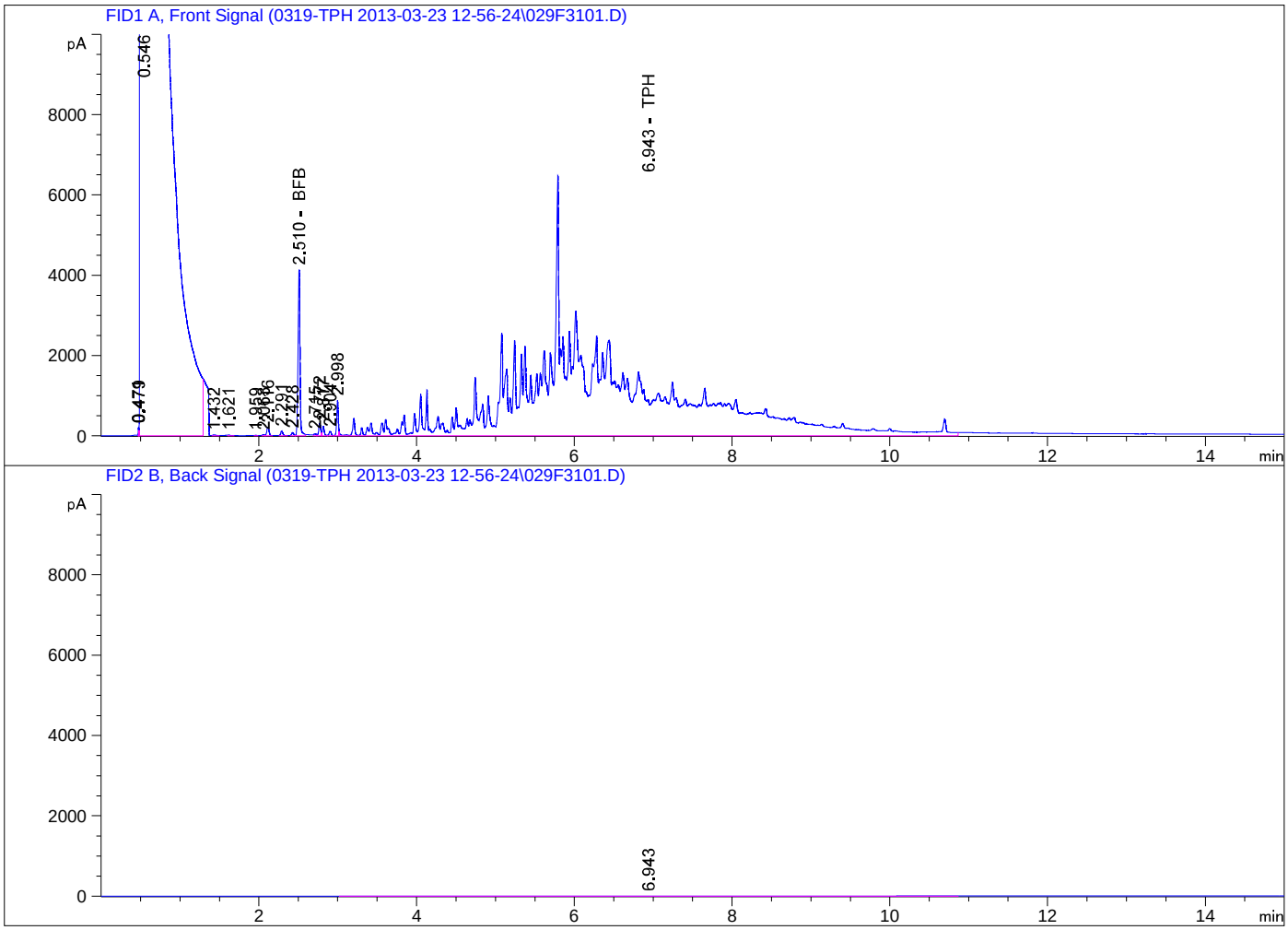

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External Standard Report

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Sorted By : Signal
Calib. Data Modified : 3/23/2013 9:21:39 PM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Data File C:\CHEM32\1\DATA\0319-TPH 2013-03-23 12-56-24\005F0501.D
Sample Name: LCS-24314

==========

Acq. Operator : Seq. Line : 5
Acq. Instrument : GC C Location : Vial 5
Injection Date : 3/23/2013 2:15:06 PM Inj : 1
Inj Volume : 5 µl
Acq. Method : C:\CHEM32\1\DATA\0319-TPH 2013-03-23 12-56-24\TPH-FRONT-1090171B.M
Last changed : 3/14/2013 1:57:38 PM
Analysis Method : C:\CHEM32\1\DATA\0319-TPH 2013-03-23 12-56-24\TPH-FRONT-1090171B.M (Sequence Method)
Last changed : 3/24/2013 9:10:14 AM

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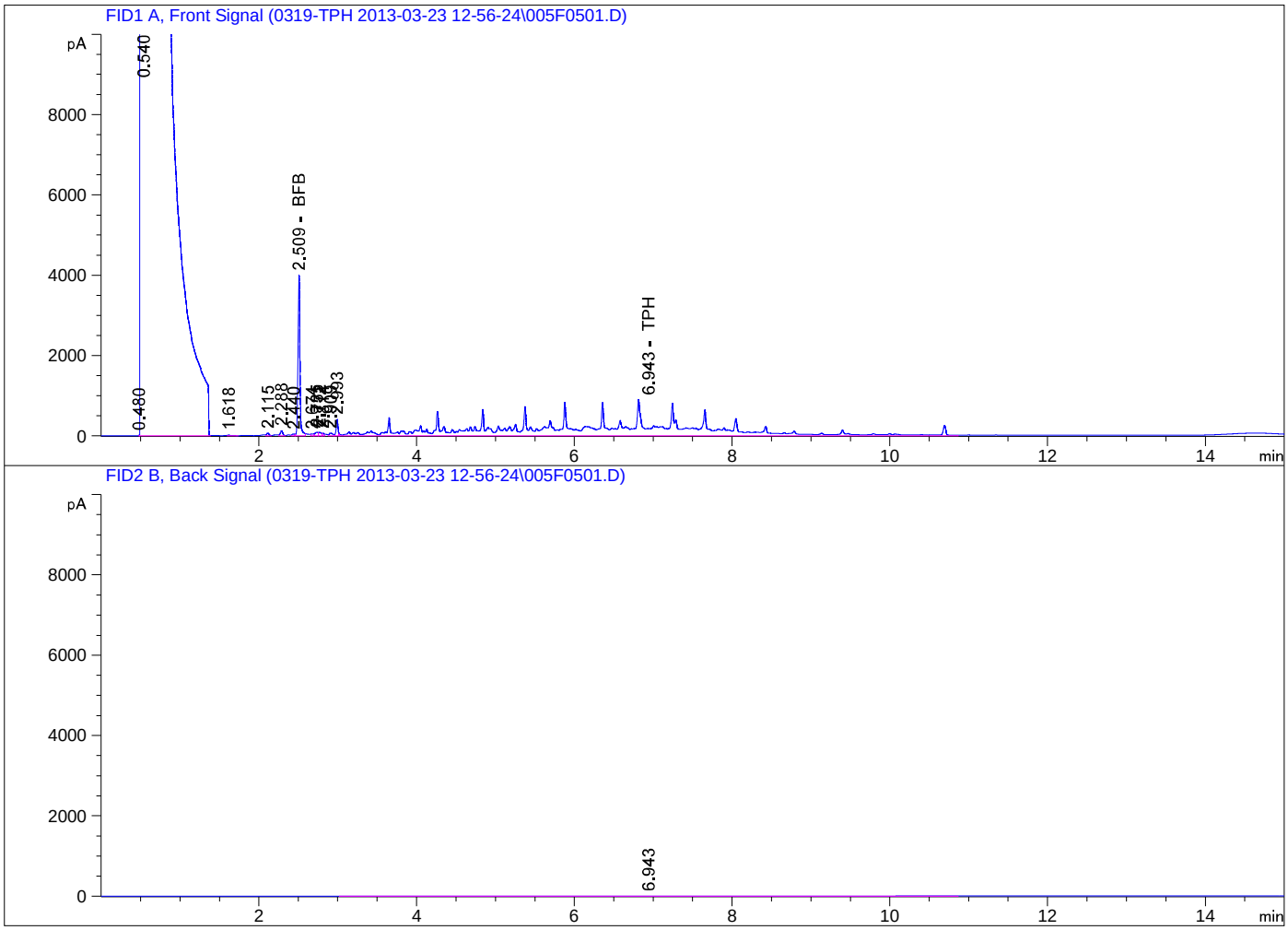

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External Standard Report

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Sorted By : Signal
Calib. Data Modified : 3/23/2013 9:21:39 PM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Data File C:\CHEM32\1\DATA\0319-TPH 2013-03-23 12-56-24\004F0401.D
Sample Name: MB-24314

==========

Acq. Operator : Seq. Line : 4
Acq. Instrument : GC C Location : Vial 4
Injection Date : 3/23/2013 1:55:51 PM Inj : 1
Inj Volume : 5 µl
Acq. Method : C:\CHEM32\1\DATA\0319-TPH 2013-03-23 12-56-24\TPH-FRONT-1090171B.M
Last changed : 3/14/2013 1:57:38 PM
Analysis Method : C:\CHEM32\1\DATA\0319-TPH 2013-03-23 12-56-24\TPH-FRONT-1090171B.M (Sequence Method)
Last changed : 3/24/2013 9:10:14 AM

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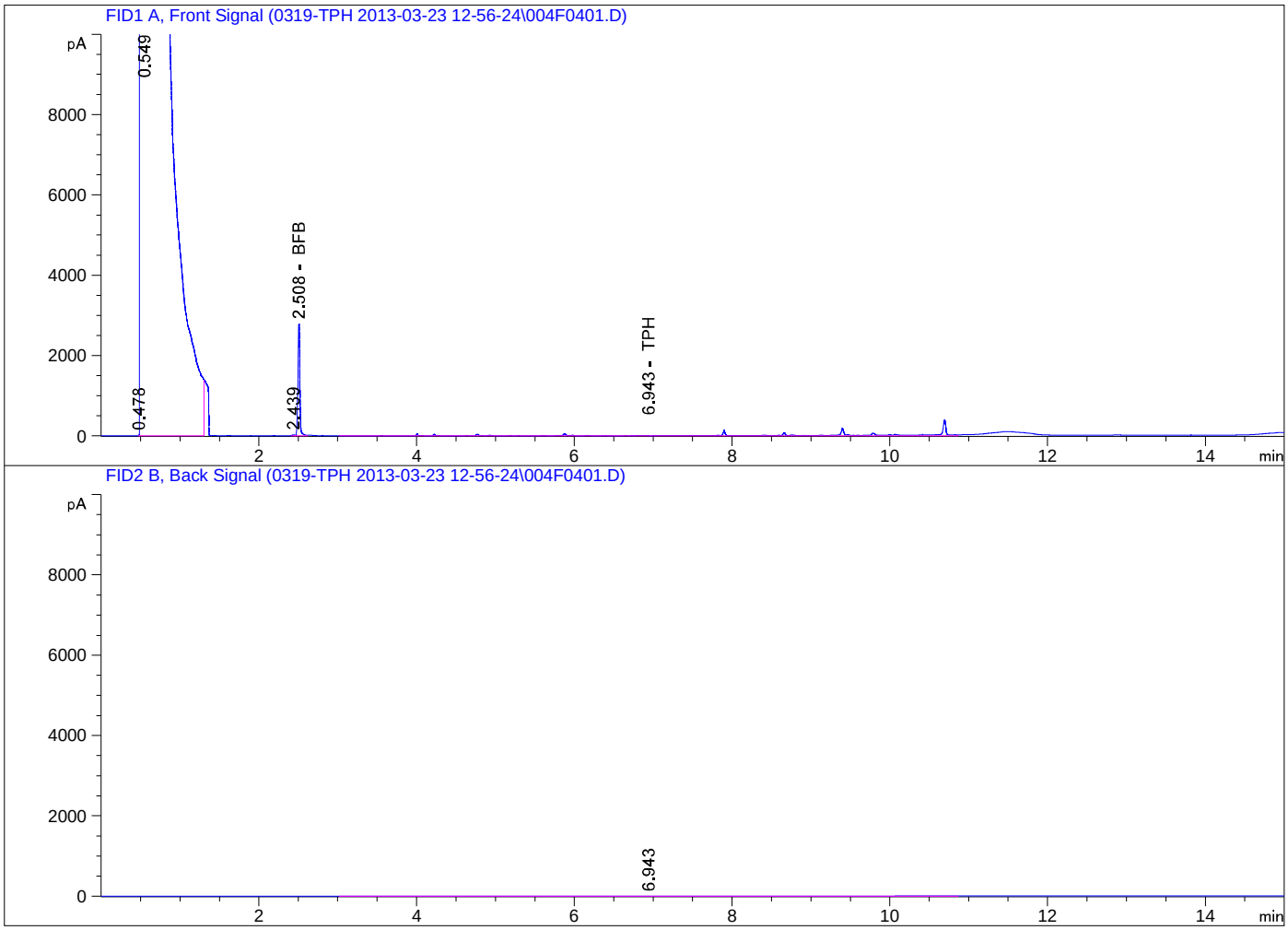

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External Standard Report

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Sorted By : Signal
Calib. Data Modified : 3/23/2013 9:21:39 PM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Data File C:\CHEM32\1\DATA\0319-TPH 2013-03-23 12-56-24\007F0701.D
Sample Name: 1303562-001CMS

==========

Acq. Operator : Seq. Line : 7
Acq. Instrument : GC C Location : Vial 7
Injection Date : 3/23/2013 2:53:22 PM Inj : 1
Inj Volume : 5 µl
Acq. Method : C:\CHEM32\1\DATA\0319-TPH 2013-03-23 12-56-24\TPH-FRONT-1090171B.M
Last changed : 3/14/2013 1:57:38 PM
Analysis Method : C:\CHEM32\1\DATA\0319-TPH 2013-03-23 12-56-24\TPH-FRONT-1090171B.M (Sequence Method)
Last changed : 3/24/2013 9:10:14 AM

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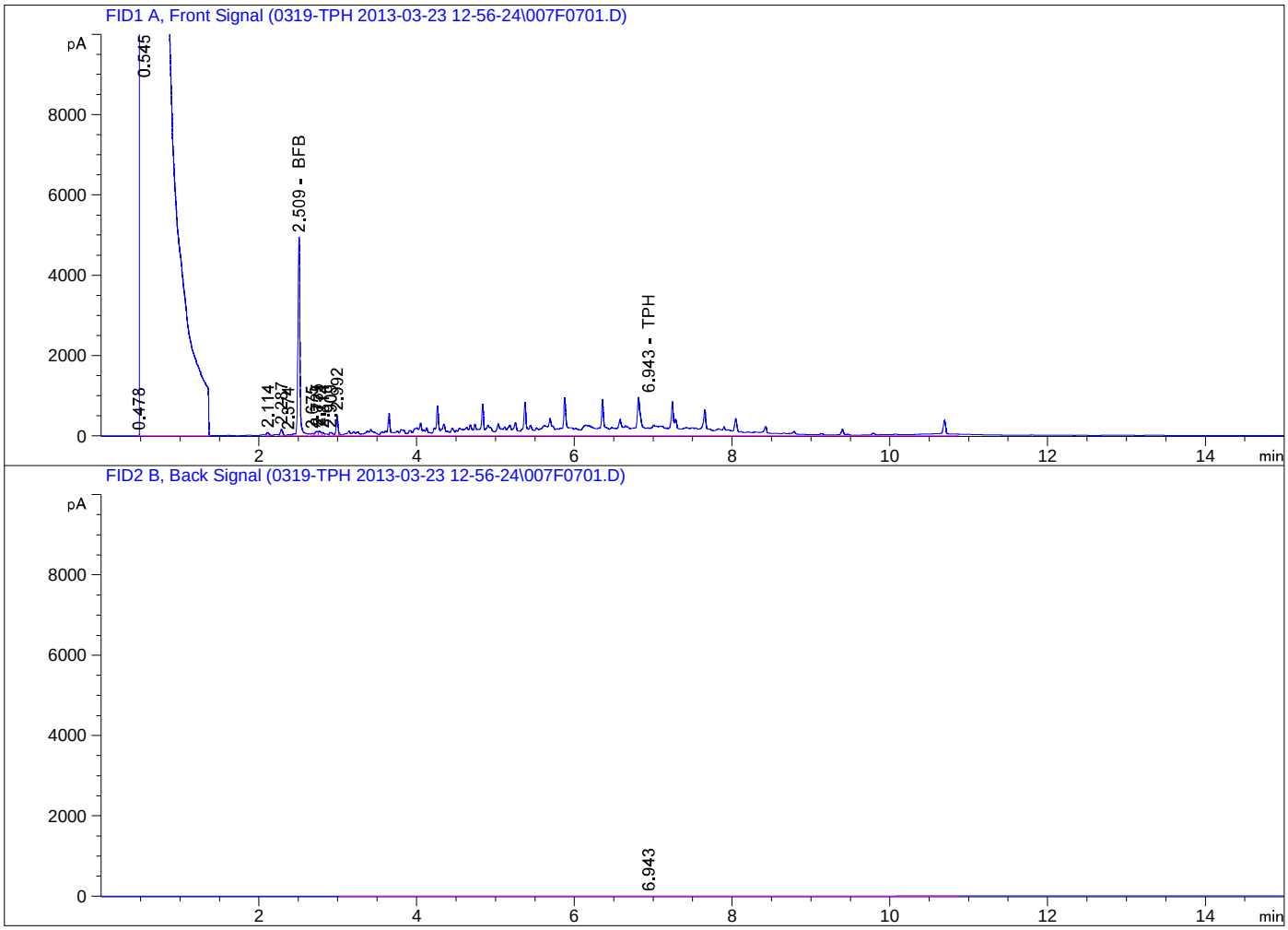

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External Standard Report

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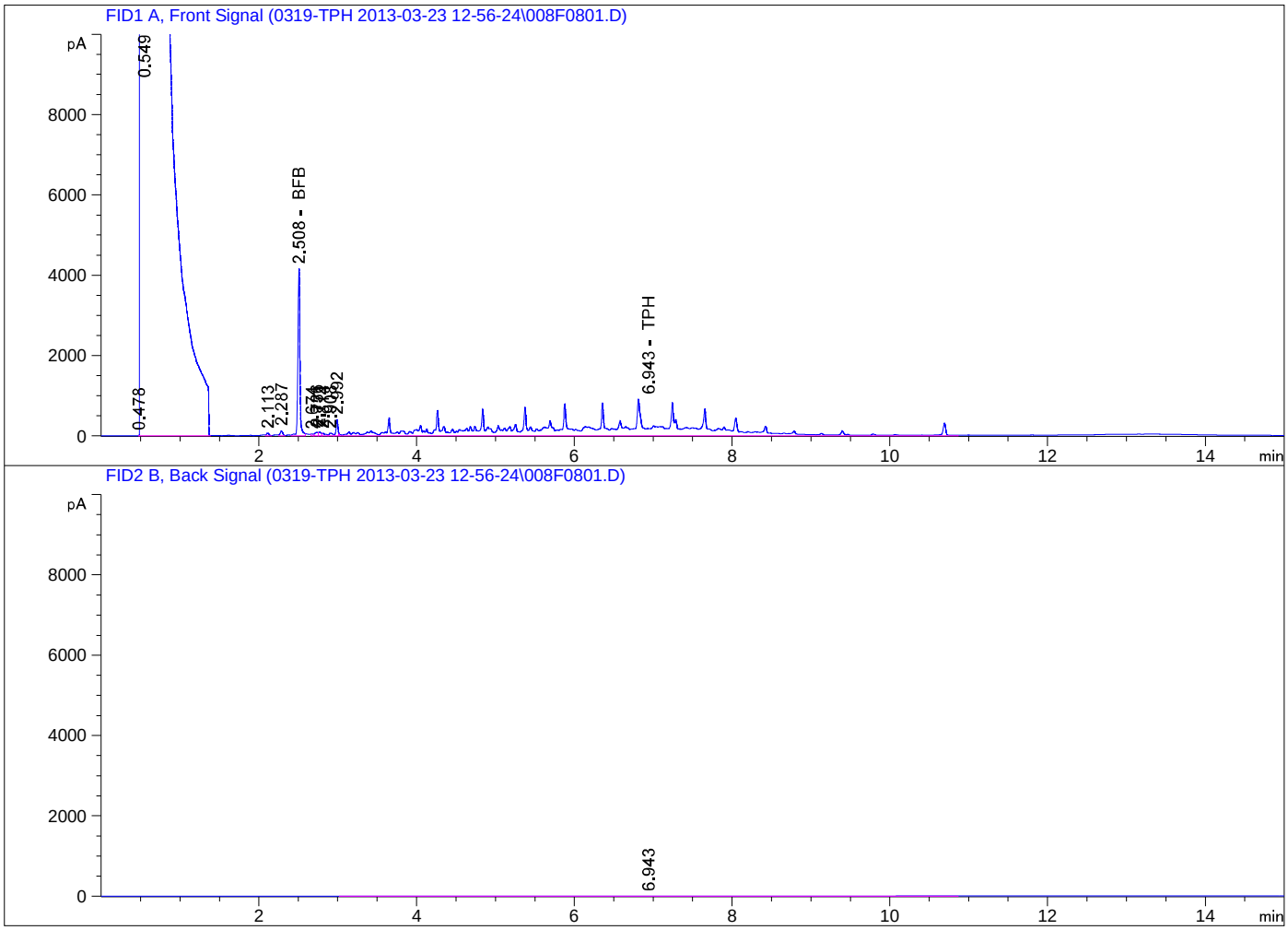
Sorted By : Signal
Calib. Data Modified : 3/23/2013 9:21:39 PM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Data File C:\CHEM32\1\DATA\0319-TPH 2013-03-23 12-56-24\008F0801.D
Sample Name: 1303562-001CMSD

==========

Acq. Operator : Seq. Line : 8
Acq. Instrument : GC C Location : Vial 8
Injection Date : 3/23/2013 3:12:27 PM Inj : 1
Inj Volume : 5 µl
Acq. Method : C:\CHEM32\1\DATA\0319-TPH 2013-03-23 12-56-24\TPH-FRONT-1090171B.M
Last changed : 3/14/2013 1:57:38 PM
Analysis Method : C:\CHEM32\1\DATA\0319-TPH 2013-03-23 12-56-24\TPH-FRONT-1090171B.M (Sequence Method)
Last changed : 3/24/2013 9:10:14 AM

==========



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External Standard Report

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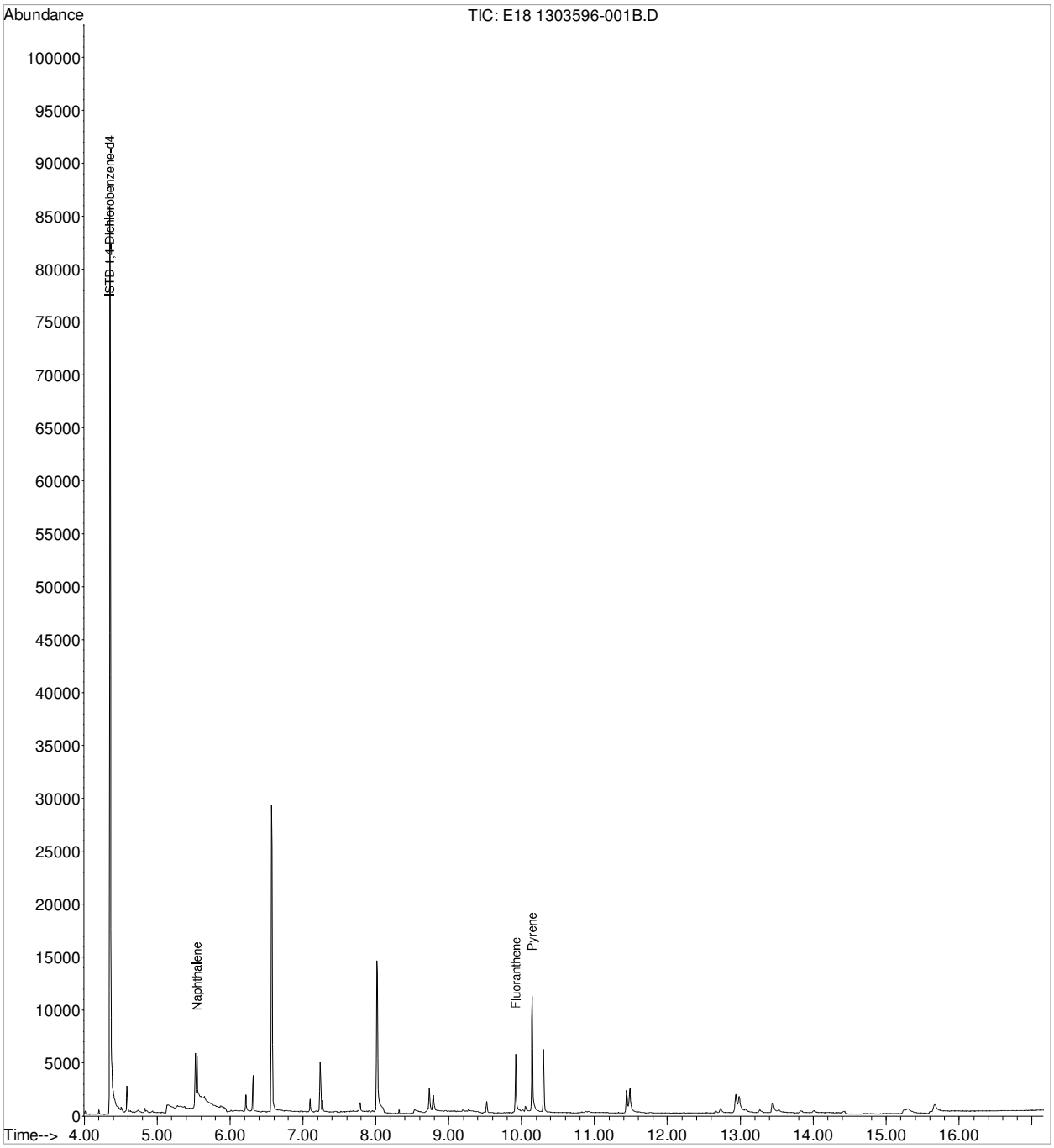
Sorted By : Signal
Calib. Data Modified : 3/23/2013 9:21:39 PM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Quantitation Report (QT Reviewed)

Data Path : Z:\MSDChem\1\DATA\MAR 13\28MAR13-A\
Data File : E18 1303596-001B.D
Acq On : 28 Mar 2013 10:34 am
Operator : ALICIA HABERLE
Sample : 1303596-001B
Misc : SAMP
ALS Vial : 12 Sample Multiplier: 1

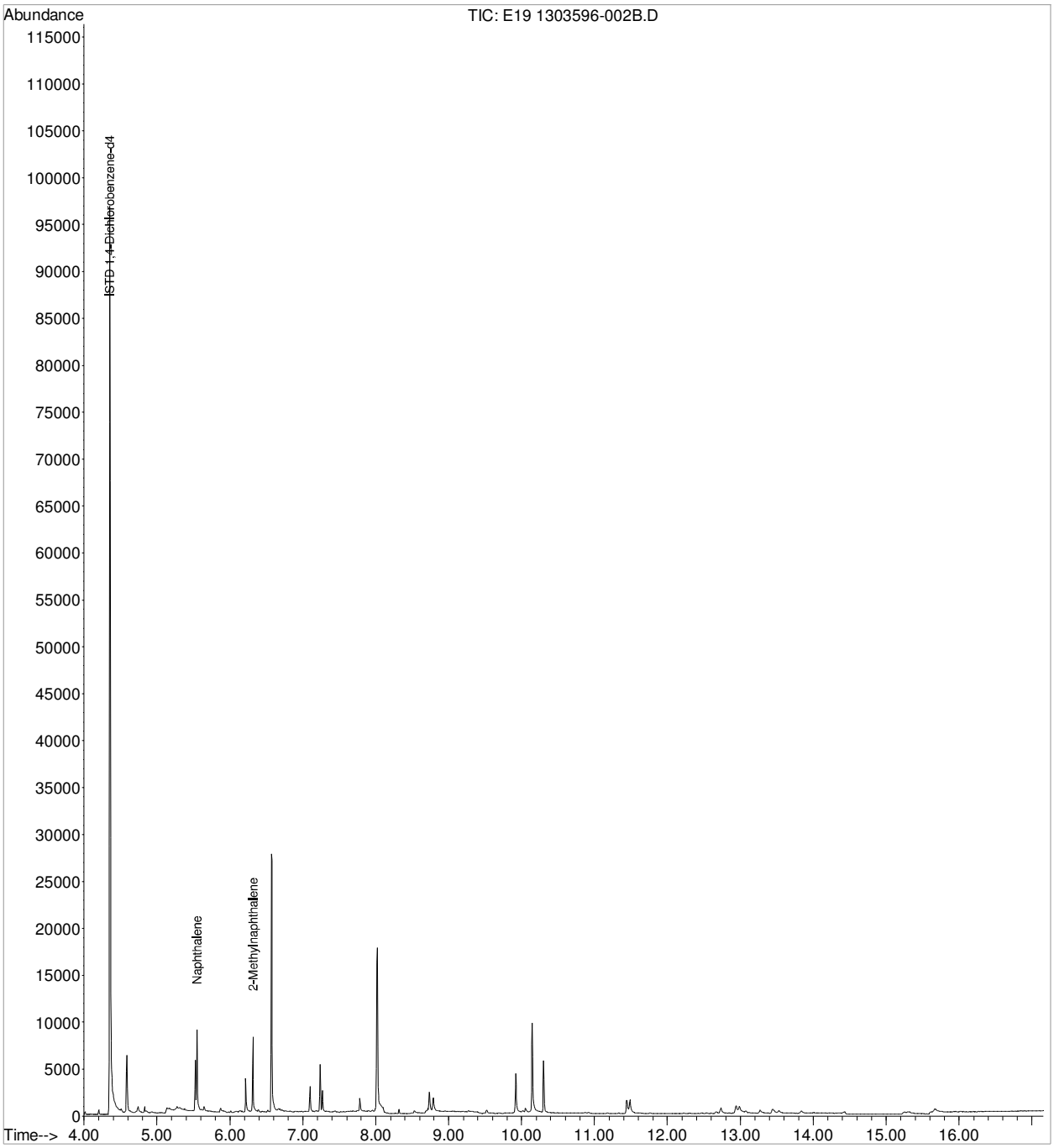
Quant Time: Mar 28 13:37:01 2013
Quant Method : C:\MSDCHEM\1\METHODS\PAH GWM QUANT SIM 03-20-2013.M
Quant Title : Semi-Volatile Compounds HP-GCMS 5973-B
QLast Update : Thu Mar 28 06:39:03 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : Z:\MSDChem\1\DATA\MAR 13\28MAR13-A\
Data File : E19 1303596-002B.D
Acq On : 28 Mar 2013 11:01 am
Operator : ALICIA HABERLE
Sample : 1303596-002B
Misc : SAMP
ALS Vial : 13 Sample Multiplier: 1

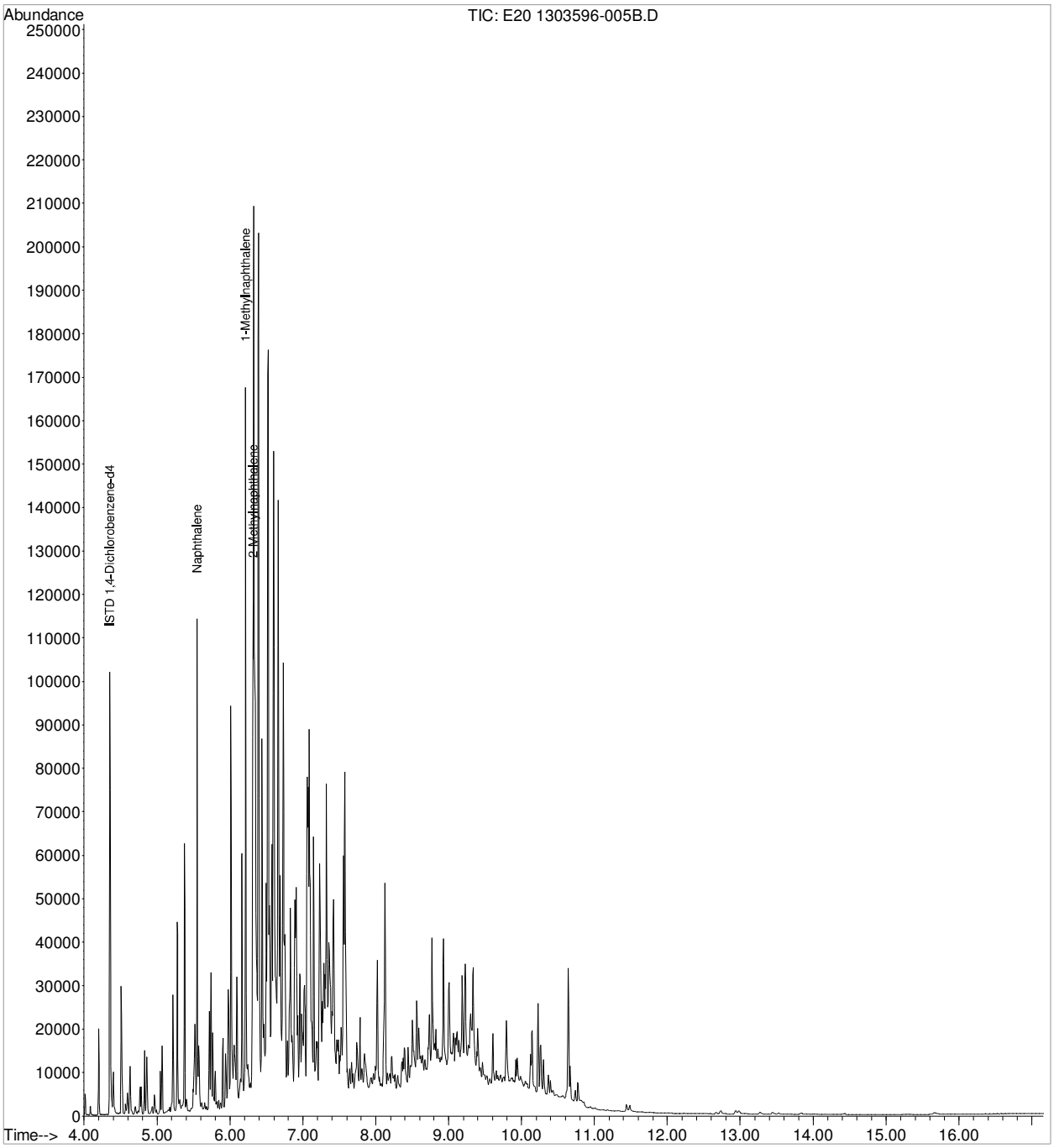
Quant Time: Mar 28 13:38:17 2013
Quant Method : C:\MSDCHEM\1\METHODS\PAH GWM QUANT SIM 03-20-2013.M
Quant Title : Semi-Volatile Compounds HP-GCMS 5973-B
QLast Update : Thu Mar 28 06:39:03 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : Z:\MSDChem\1\DATA\MAR 13\28MAR13-A\
Data File : E20 1303596-005B.D
Acq On : 28 Mar 2013 11:27 am
Operator : ALICIA HABERLE
Sample : 1303596-005B
Misc : SAMP
ALS Vial : 14 Sample Multiplier: 1

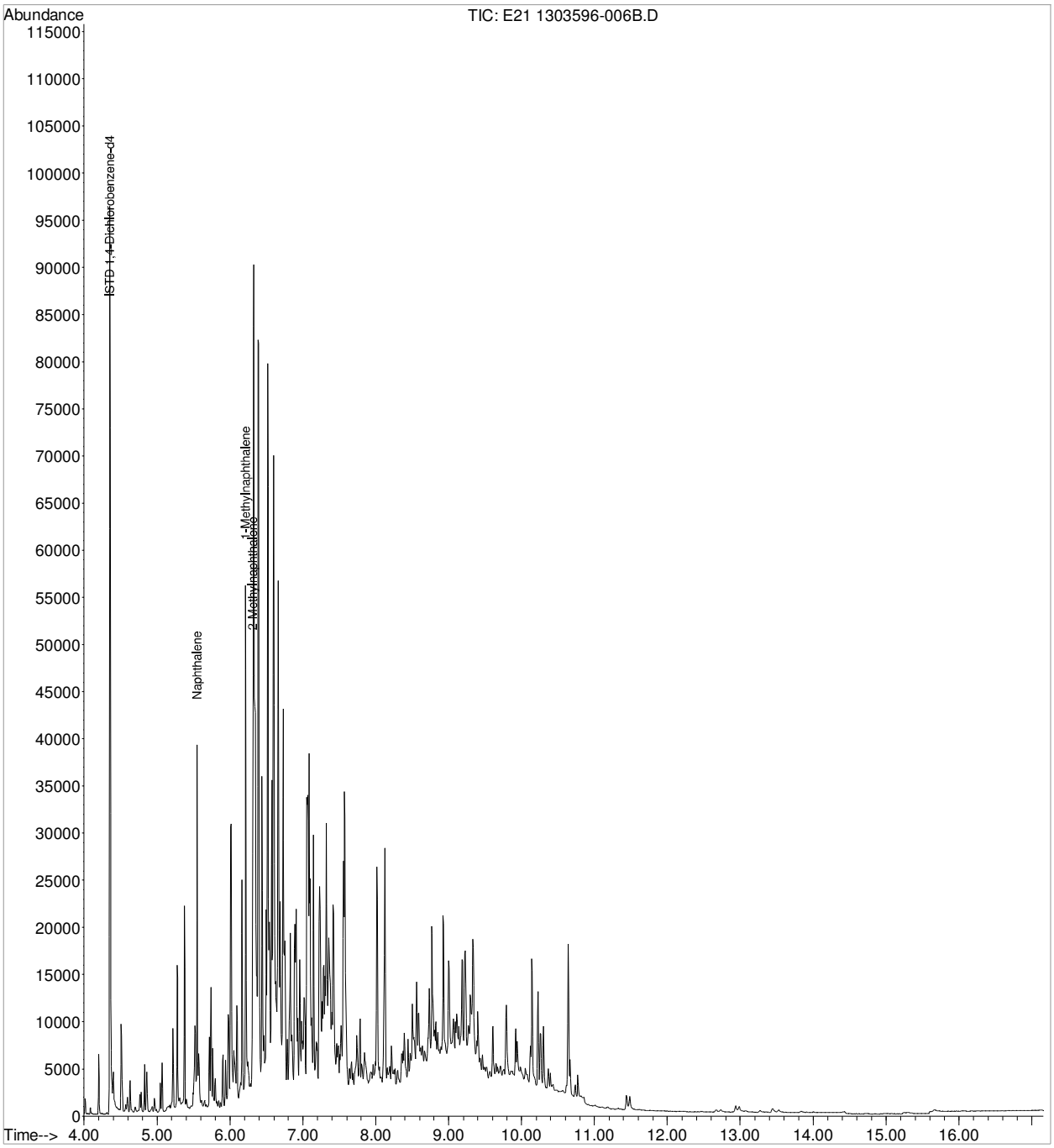
Quant Time: Mar 28 13:39:14 2013
Quant Method : C:\MSDCHEM\1\METHODS\PAH GWM QUANT SIM 03-20-2013.M
Quant Title : Semi-Volatile Compounds HP-GCMS 5973-B
QLast Update : Thu Mar 28 06:39:03 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : Z:\MSDChem\1\DATA\MAR 13\28MAR13-A\
Data File : E21 1303596-006B.D
Acq On : 28 Mar 2013 11:54 am
Operator : ALICIA HABERLE
Sample : 1303596-006B
Misc : SAMP
ALS Vial : 15 Sample Multiplier: 1

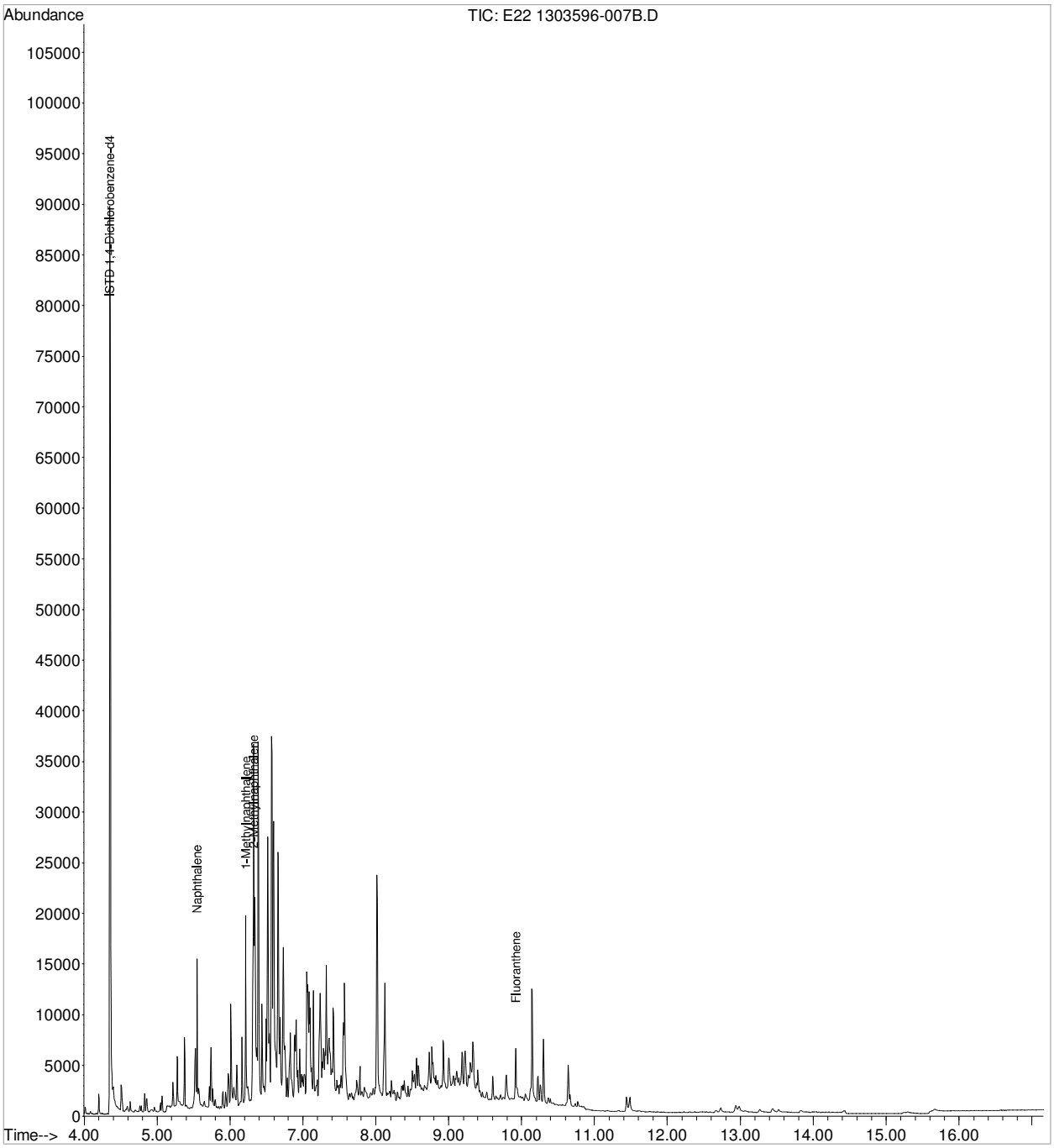
Quant Time: Mar 28 13:39:58 2013
Quant Method : C:\MSDCHEM\1\METHODS\PAH GWM QUANT SIM 03-20-2013.M
Quant Title : Semi-Volatile Compounds HP-GCMS 5973-B
QLast Update : Thu Mar 28 06:39:03 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : Z:\MSDChem\1\DATA\MAR 13\28MAR13-A\
Data File : E22 1303596-007B.D
Acq On : 28 Mar 2013 12:21 pm
Operator : ALICIA HABERLE
Sample : 1303596-007B
Misc : SAMP
ALS Vial : 16 Sample Multiplier: 1

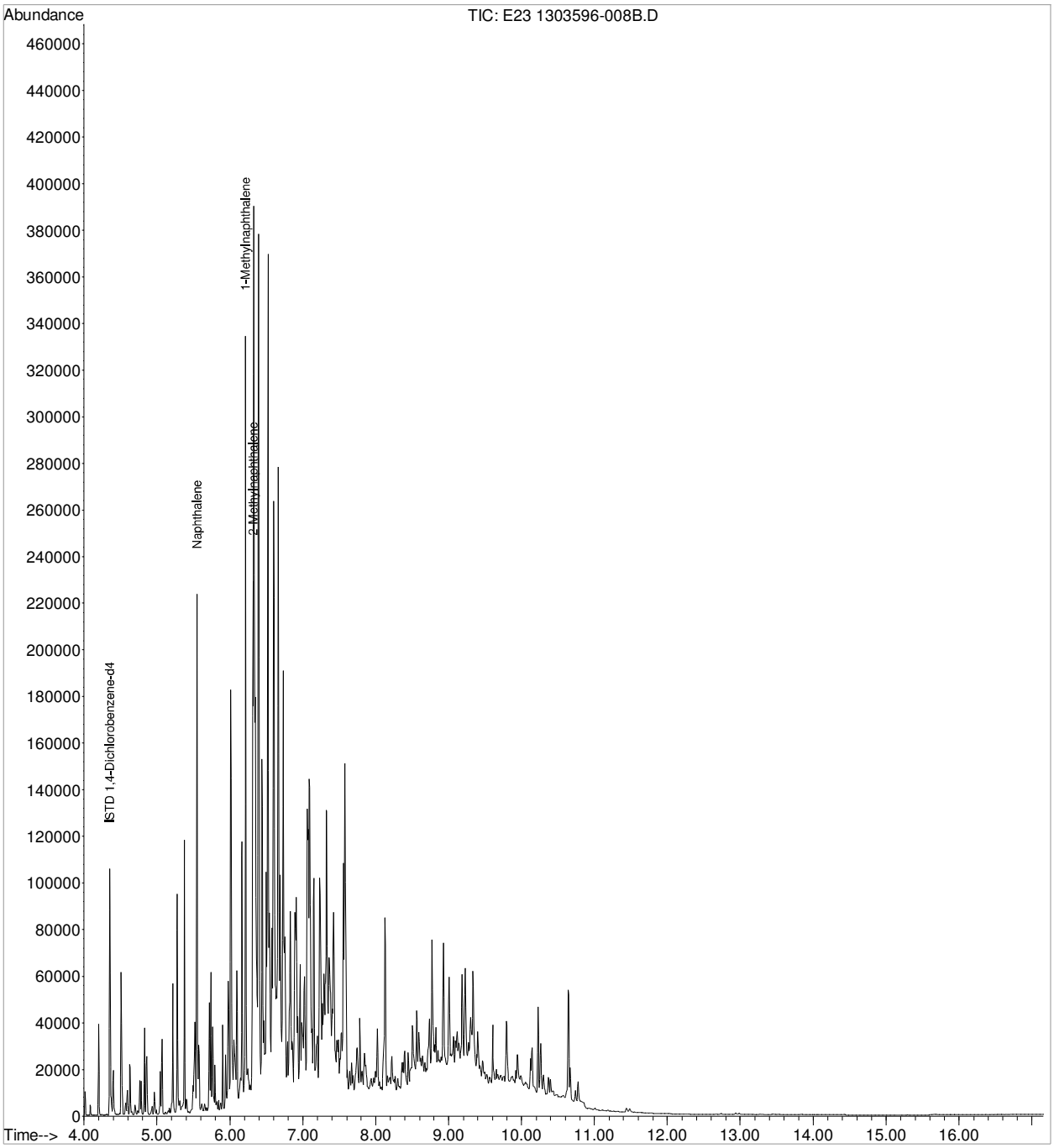
Quant Time: Mar 28 13:40:55 2013
Quant Method : C:\MSDCHEM\1\METHODS\PAH GWM QUANT SIM 03-20-2013.M
Quant Title : Semi-Volatile Compounds HP-GCMS 5973-B
QLast Update : Thu Mar 28 06:39:03 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : Z:\MSDChem\1\DATA\MAR 13\28MAR13-A\
Data File : E23 1303596-008B.D
Acq On : 28 Mar 2013 12:48 pm
Operator : ALICIA HABERLE
Sample : 1303596-008B
Misc : SAMP
ALS Vial : 17 Sample Multiplier: 1

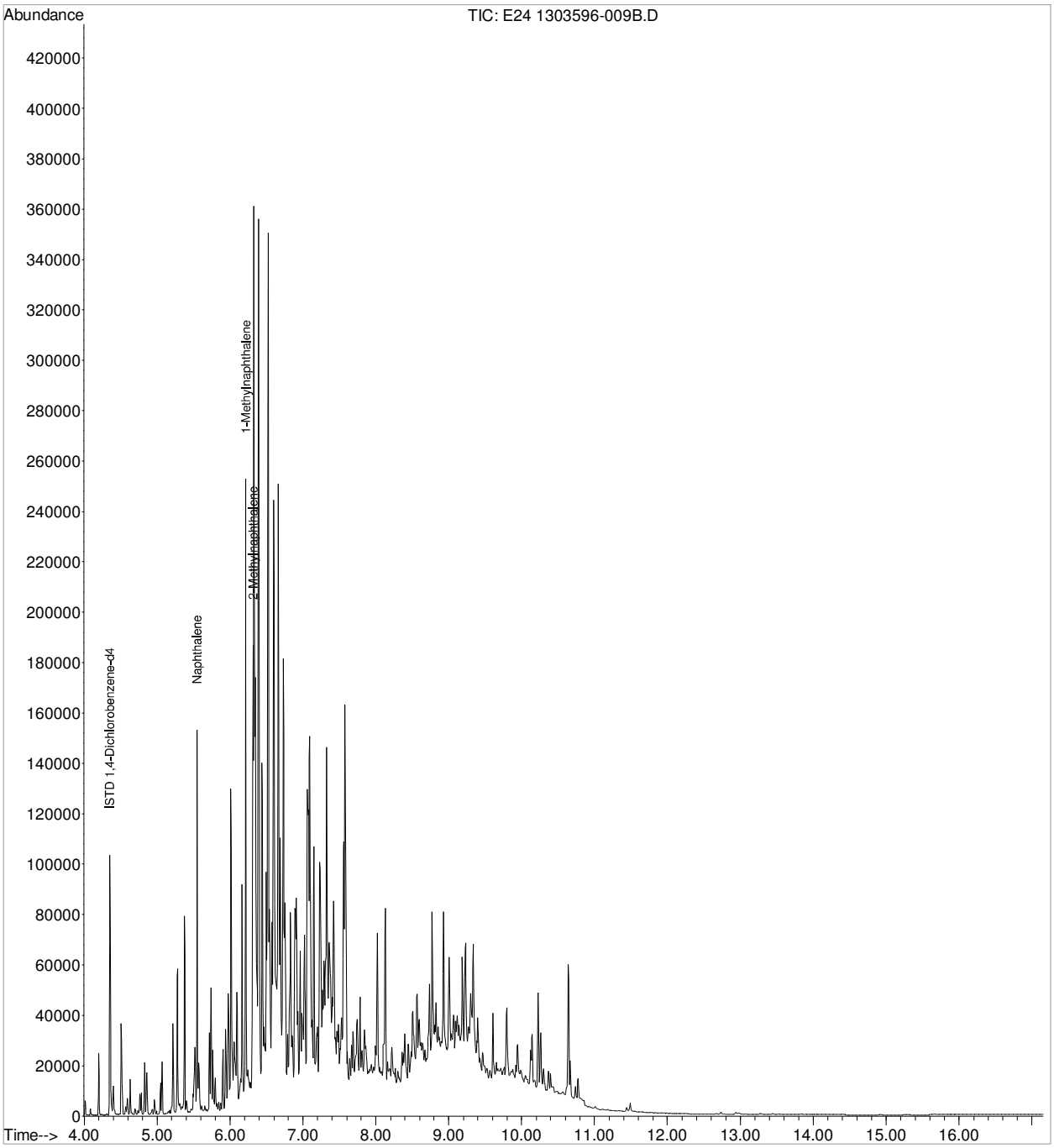
Quant Time: Mar 28 13:43:45 2013
Quant Method : C:\MSDCHEM\1\METHODS\PAH GWM QUANT SIM 03-20-2013.M
Quant Title : Semi-Volatile Compounds HP-GCMS 5973-B
QLast Update : Thu Mar 28 06:39:03 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : Z:\MSDChem\1\DATA\MAR 13\28MAR13-A\
Data File : E24 1303596-009B.D
Acq On : 28 Mar 2013 1:14 pm
Operator : ALICIA HABERLE
Sample : 1303596-009B
Misc : SAMP
ALS Vial : 18 Sample Multiplier: 1

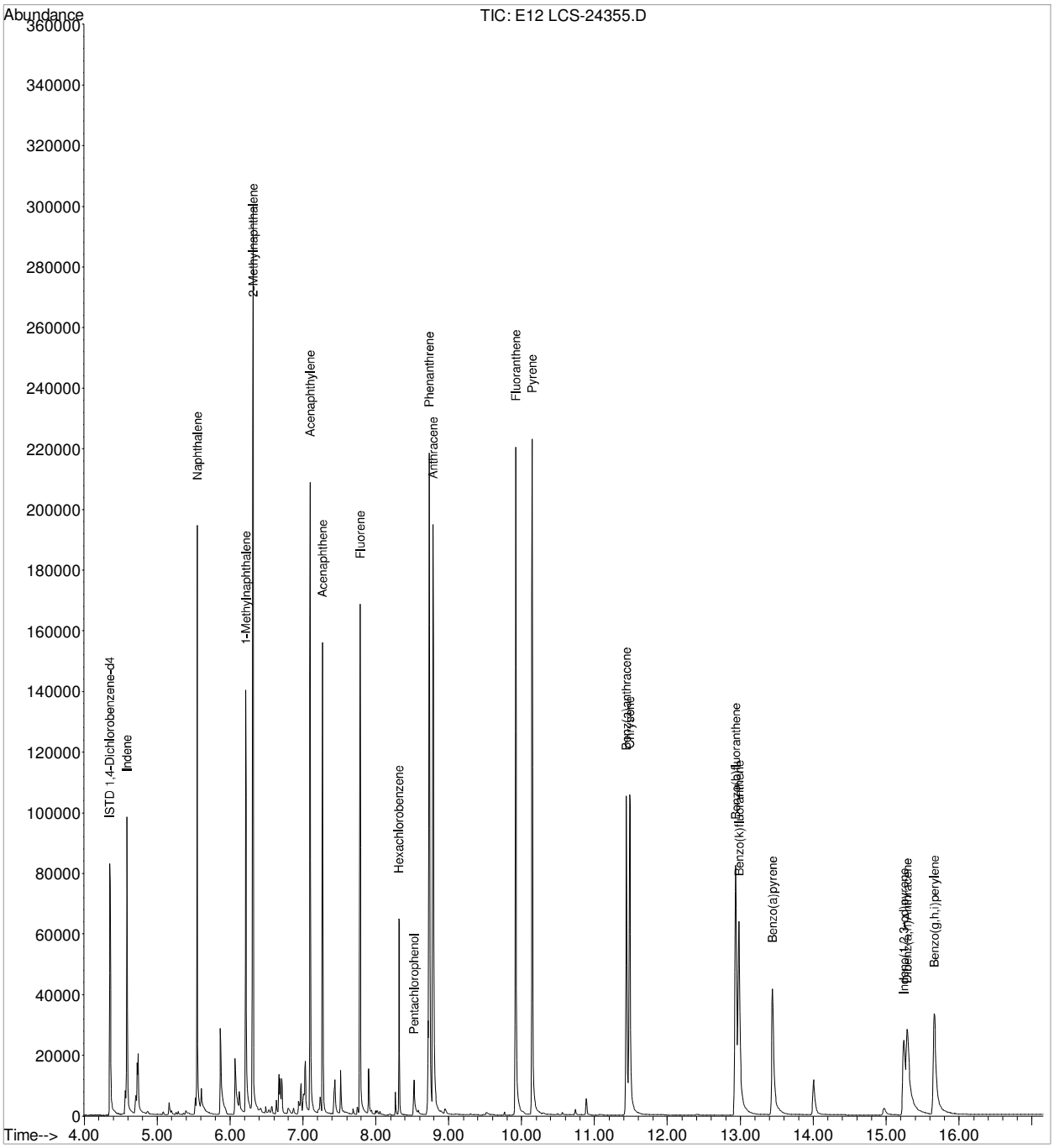
Quant Time: Mar 28 13:44:46 2013
Quant Method : C:\MSDCHEM\1\METHODS\PAH GWM QUANT SIM 03-20-2013.M
Quant Title : Semi-Volatile Compounds HP-GCMS 5973-B
QLast Update : Thu Mar 28 06:39:03 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : Z:\MSDChem\1\DATA\MAR 13\28MAR13-A\
Data File : E12 LCS-24355.D
Acq On : 28 Mar 2013 7:54 am
Operator : ALICIA HABERLE
Sample : LCS-24355
Misc : LCS 20X
ALS Vial : 6 Sample Multiplier: 1

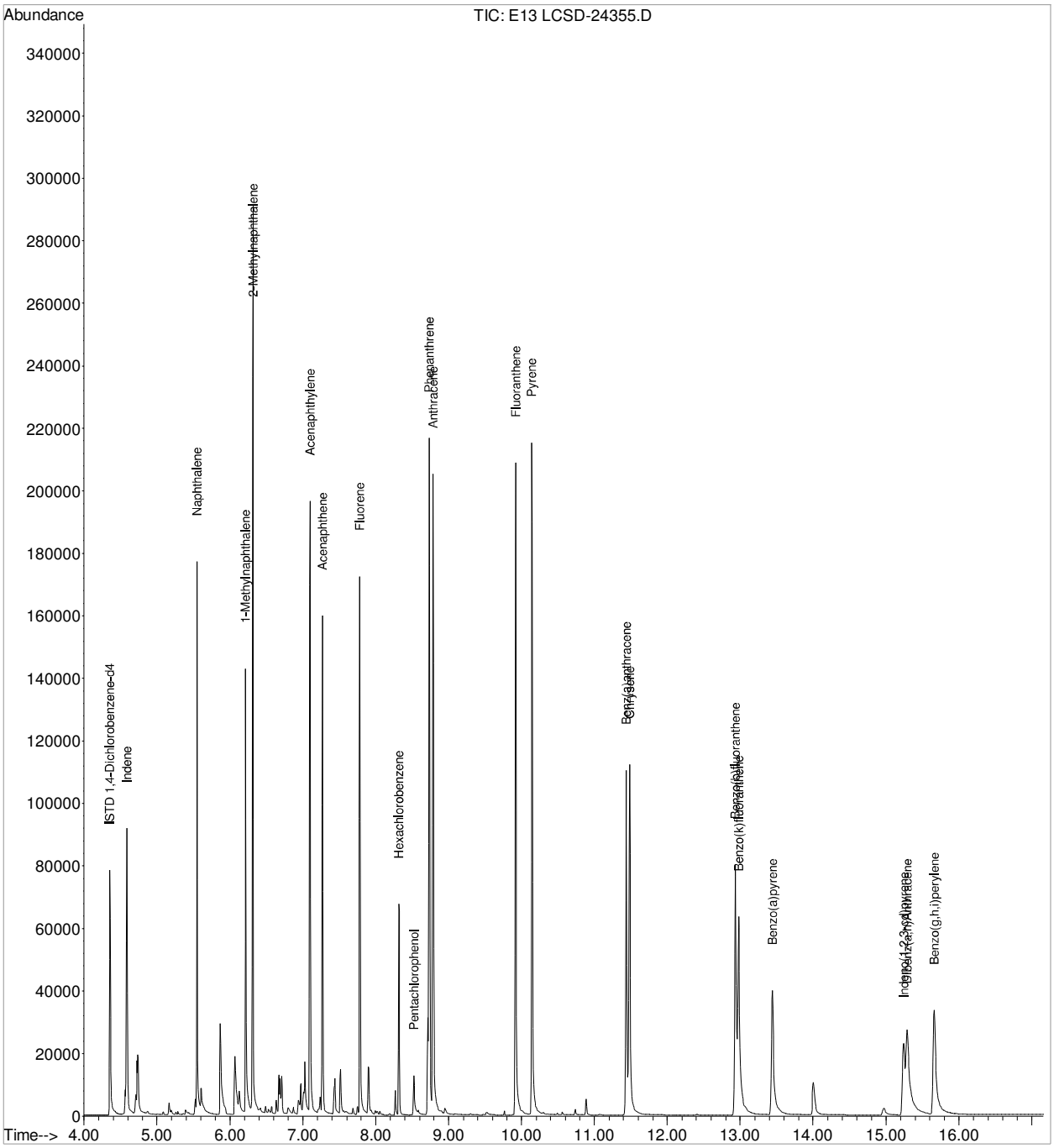
Quant Time: Mar 28 13:18:09 2013
Quant Method : C:\MSDCHEM\1\METHODS\PAH GWM QUANT SIM 03-20-2013.M
Quant Title : Semi-Volatile Compounds HP-GCMS 5973-B
QLast Update : Thu Mar 28 06:39:03 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : Z:\MSDChem\1\DATA\MAR 13\28MAR13-A\
Data File : E13 LCSD-24355.D
Acq On : 28 Mar 2013 8:21 am
Operator : ALICIA HABERLE
Sample : LCSD-24355
Misc : LCSD 20X
ALS Vial : 7 Sample Multiplier: 1

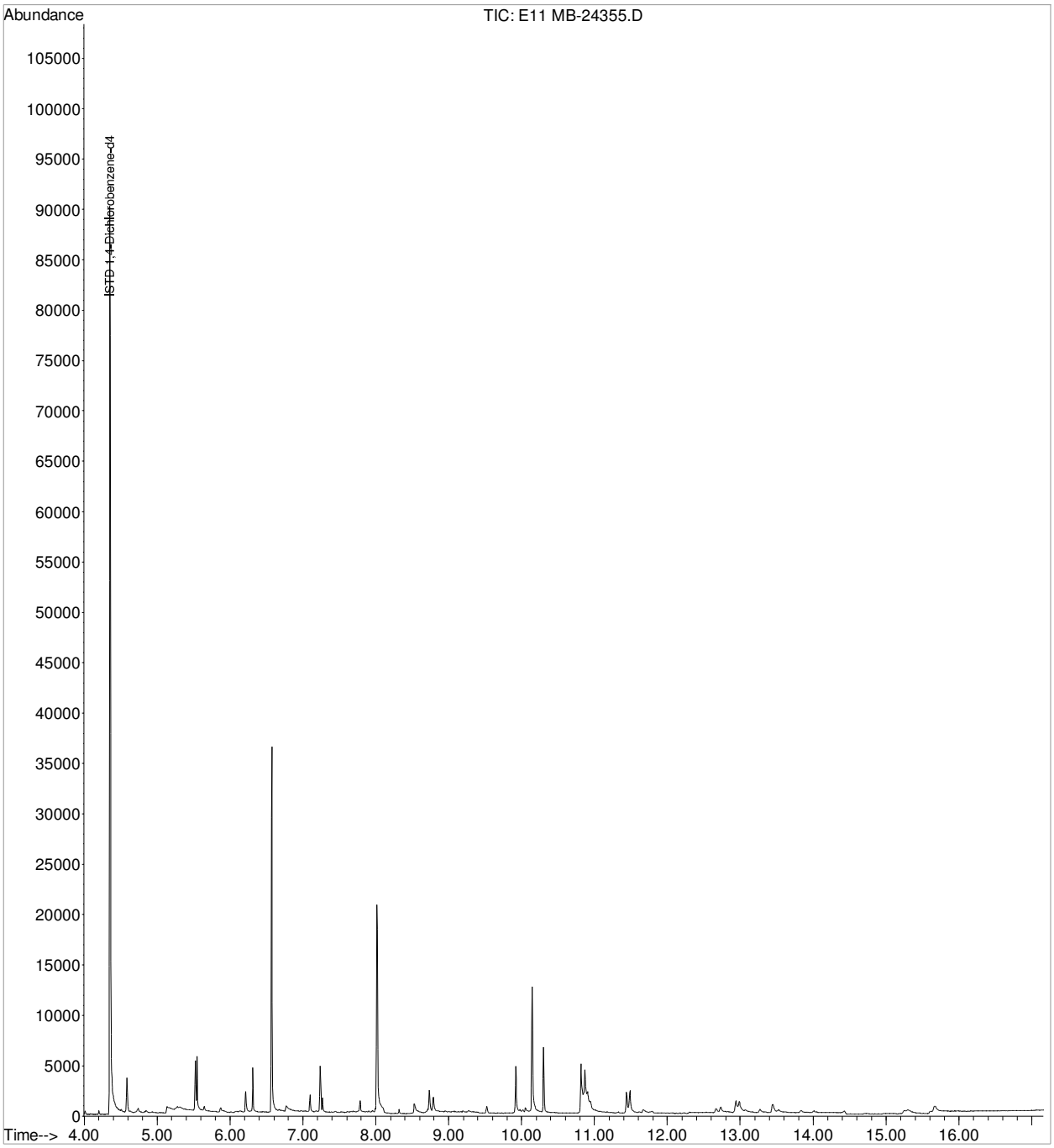
Quant Time: Mar 28 13:18:48 2013
Quant Method : C:\MSDCHEM\1\METHODS\PAH GWM QUANT SIM 03-20-2013.M
Quant Title : Semi-Volatile Compounds HP-GCMS 5973-B
QLast Update : Thu Mar 28 06:39:03 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : Z:\MSDChem\1\DATA\MAR 13\28MAR13-A\
Data File : E11 MB-24355.D
Acq On : 28 Mar 2013 7:28 am
Operator : ALICIA HABERLE
Sample : MB-34355
Misc : MBLK
ALS Vial : 5 Sample Multiplier: 1

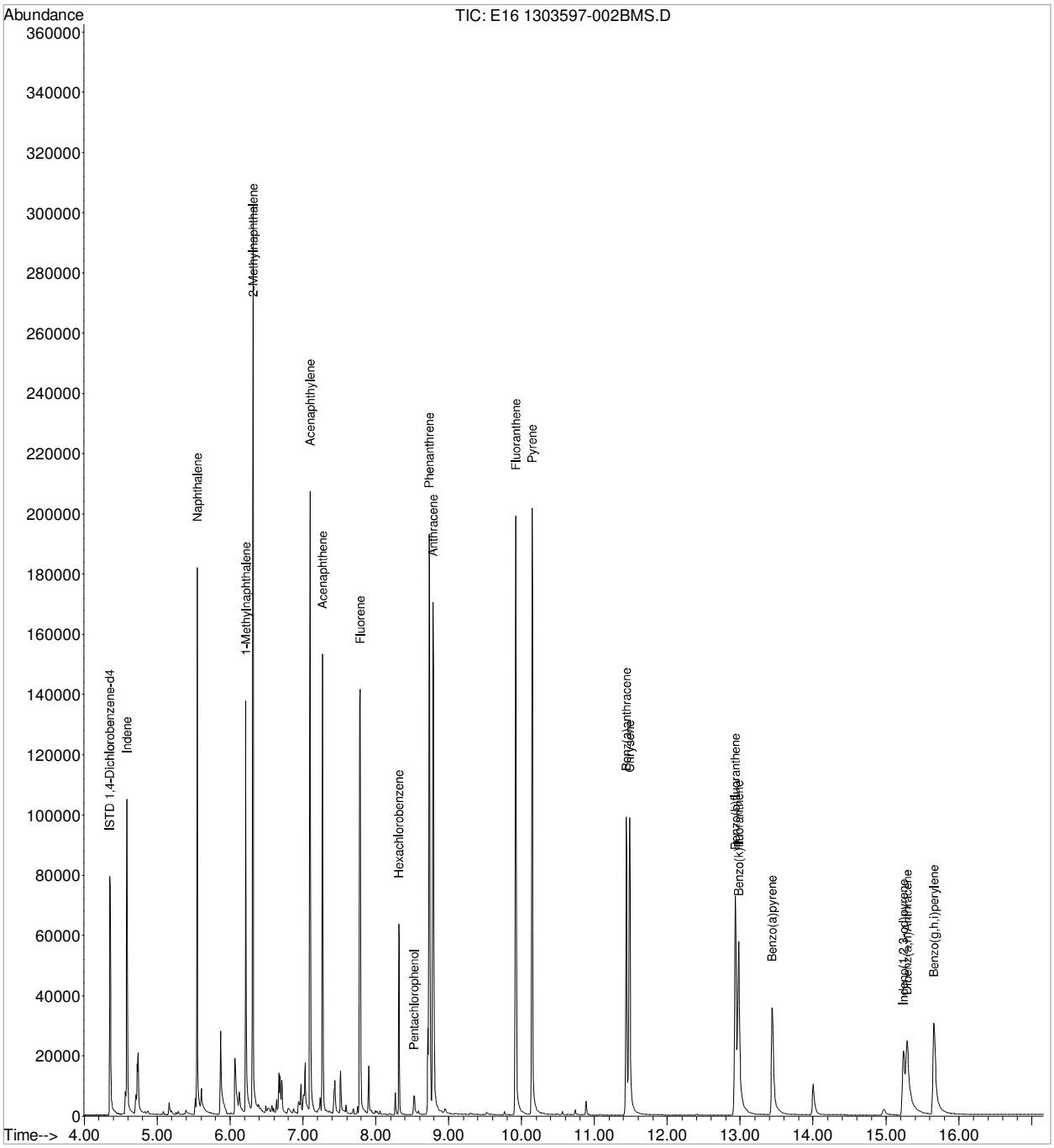
Quant Time: Mar 28 13:27:19 2013
Quant Method : C:\MSDCHEM\1\METHODS\PAH GWM QUANT SIM 03-20-2013.M
Quant Title : Semi-Volatile Compounds HP-GCMS 5973-B
QLast Update : Thu Mar 28 06:39:03 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : Z:\MSDChem\1\DATA\MAR 13\28MAR13-A\
Data File : E16 1303597-002BMS.D
Acq On : 28 Mar 2013 9:41 am
Operator : ALICIA HABERLE
Sample : 1303597-002BMS
Misc : MS 20X
ALS Vial : 10 Sample Multiplier: 1

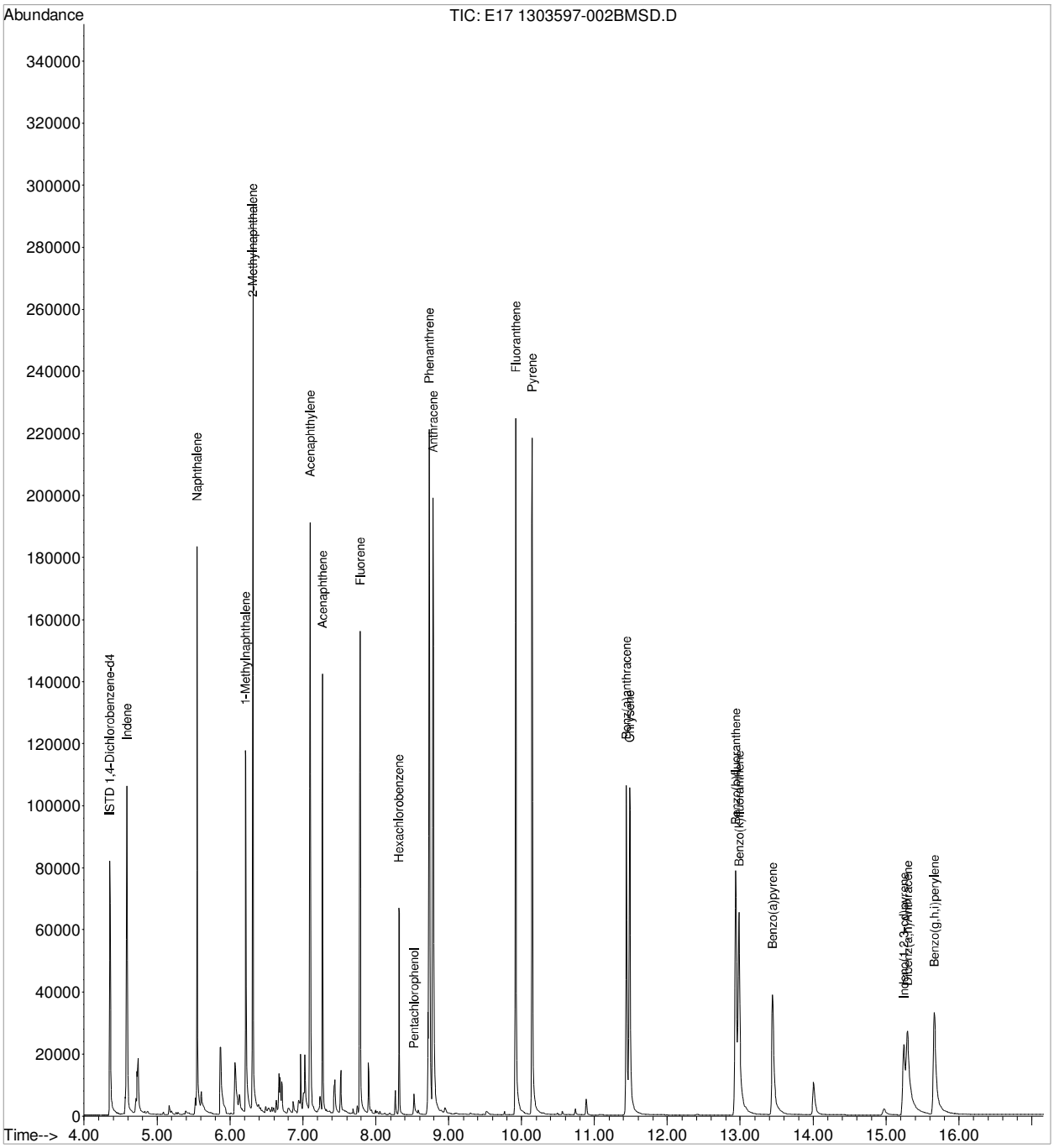
Quant Time: Mar 28 13:19:20 2013
Quant Method : C:\MSDCHEM\1\METHODS\PAH GWM QUANT SIM 03-20-2013.M
Quant Title : Semi-Volatile Compounds HP-GCMS 5973-B
QLast Update : Thu Mar 28 06:39:03 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : Z:\MSDChem\1\DATA\MAR 13\28MAR13-A\
Data File : E17 1303597-002BMSD.D
Acq On : 28 Mar 2013 10:08 am
Operator : ALICIA HABERLE
Sample : 1303597-002BMSD
Misc : MSD 20X
ALS Vial : 11 Sample Multiplier: 1

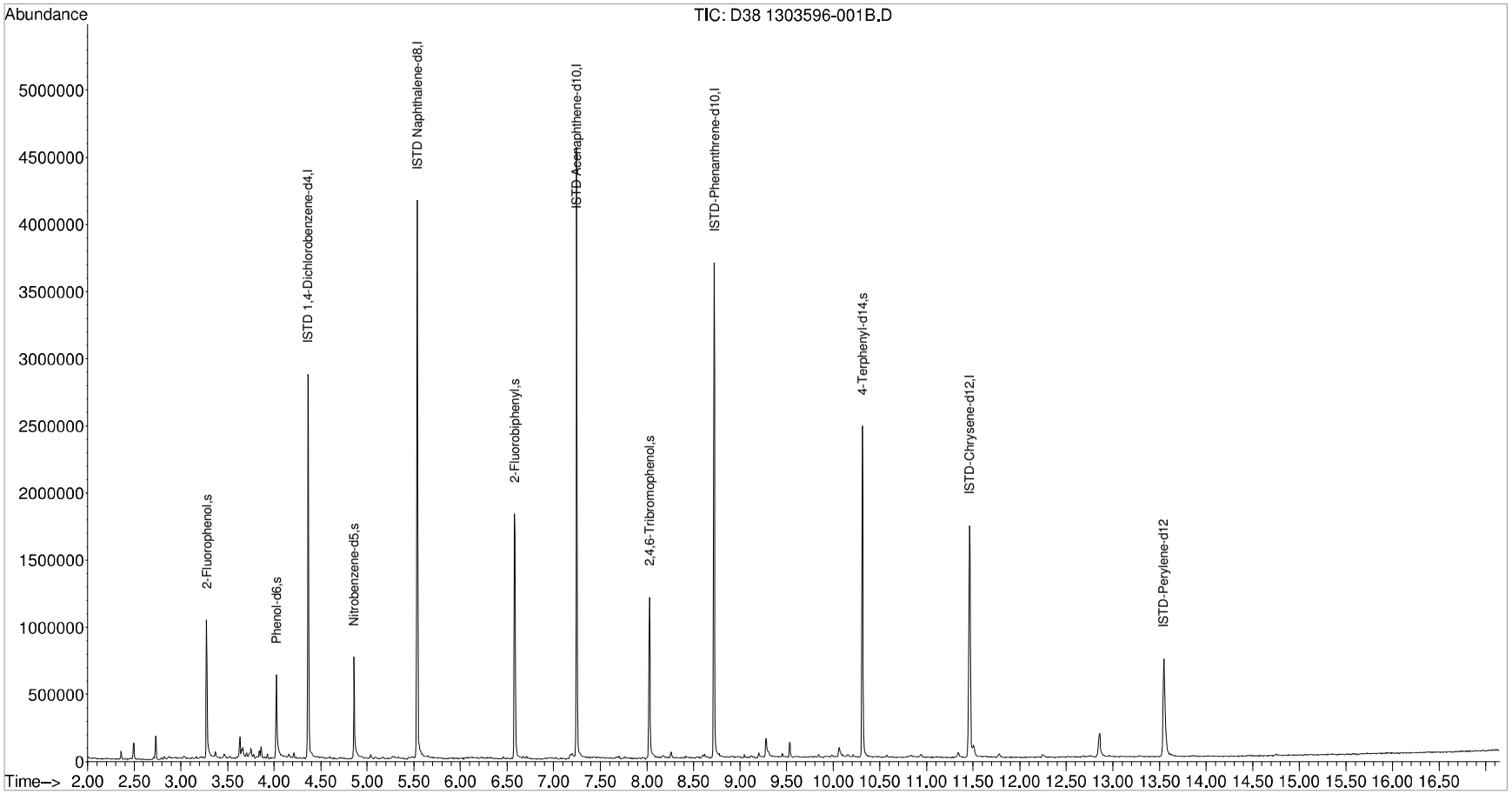
Quant Time: Mar 28 13:20:57 2013
Quant Method : C:\MSDCHEM\1\METHODS\PAH GWM QUANT SIM 03-20-2013.M
Quant Title : Semi-Volatile Compounds HP-GCMS 5973-B
QLast Update : Thu Mar 28 06:39:03 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : Z:\MSDChem\1\DATA\MAR 13\26MAR13-A\
Data File : D38 1303596-001B.D
Acq On : 26 Mar 2013 3:50 pm
Operator : ALICIA HABERLE
Sample : 1303596-001B
Misc : SAMP
ALS Vial : 9 Sample Multiplier: 1

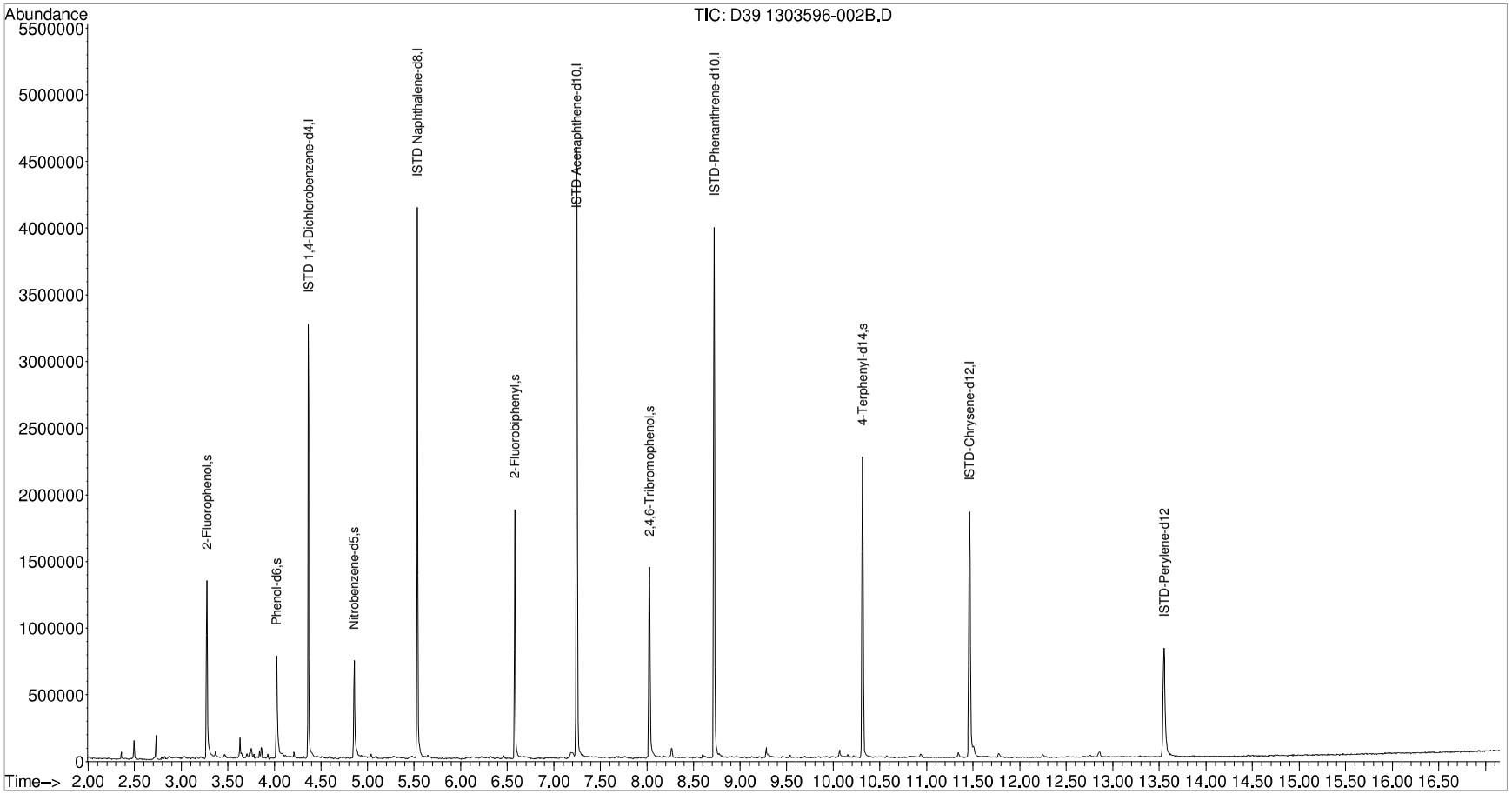
Quant Time: Mar 27 10:56:28 2013
Quant Method : C:\MSDCHEM\1\METHODS\QUANTFULLSV 03-19-13.M
Quant Title : Semi-Volatile Compounds HP-GCMS 5973-B
QLast Update : Sat Mar 23 15:30:07 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : Z:\MSDChem\1\DATA\MAR 13\26MAR13-A\
Data File : D39 1303596-002B.D
Acq On : 26 Mar 2013 4:17 pm
Operator : ALICIA HABERLE
Sample : 1303596-002B
Misc : SAMP
ALS Vial : 10 Sample Multiplier: 1

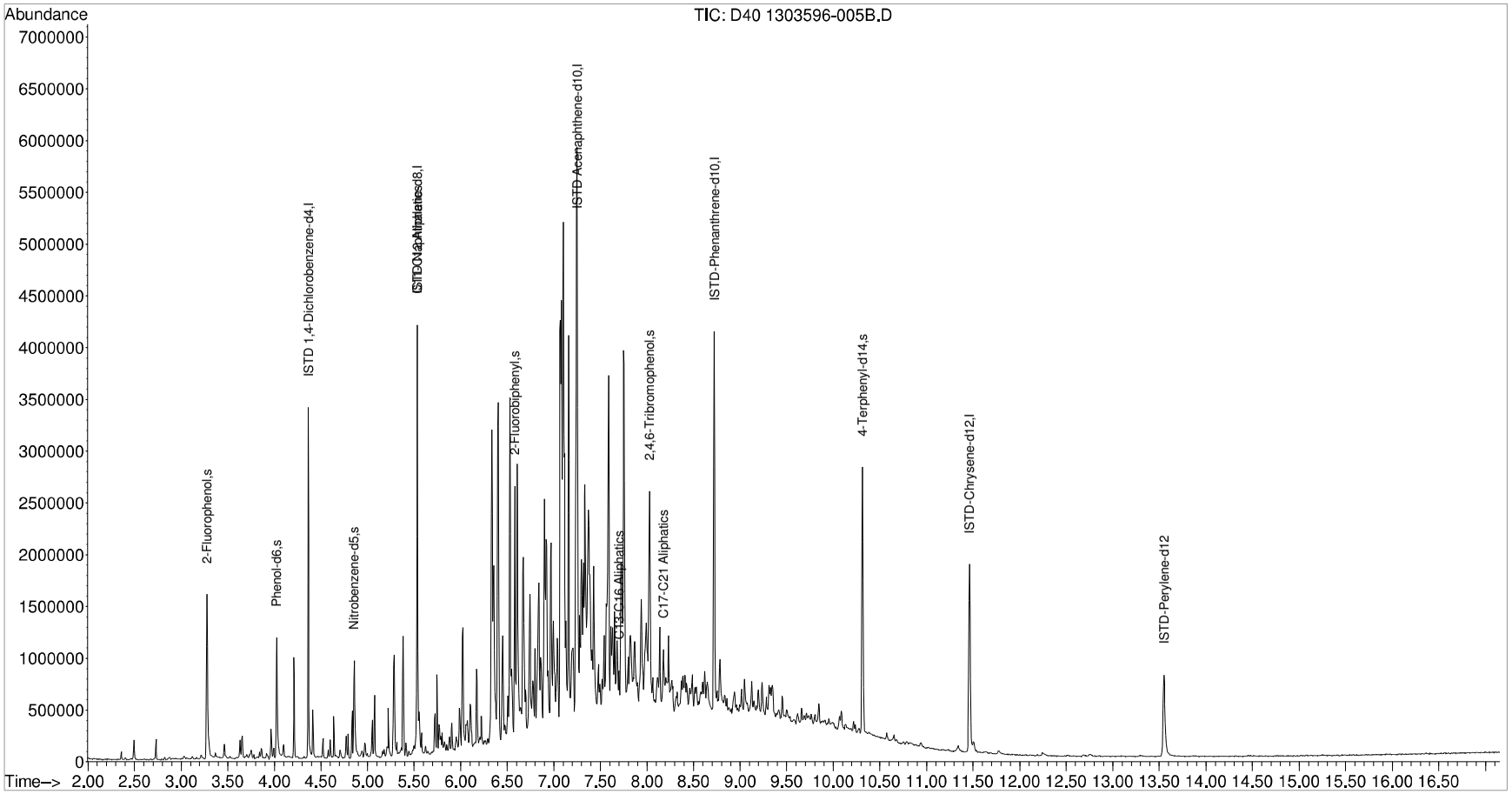
Quant Time: Mar 27 10:57:05 2013
Quant Method : C:\MSDCHEM\1\METHODS\QUANTFULLSV 03-19-13.M
Quant Title : Semi-Volatile Compounds HP-GCMS 5973-B
QLast Update : Sat Mar 23 15:30:07 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : Z:\MSDChem\1\DATA\MAR 13\26MAR13-A\
Data File : D40 1303596-005B.D
Acq On : 26 Mar 2013 4:43 pm
Operator : ALICIA HABERLE
Sample : 1303596-005B
Misc : SAMP
ALS Vial : 11 Sample Multiplier: 1

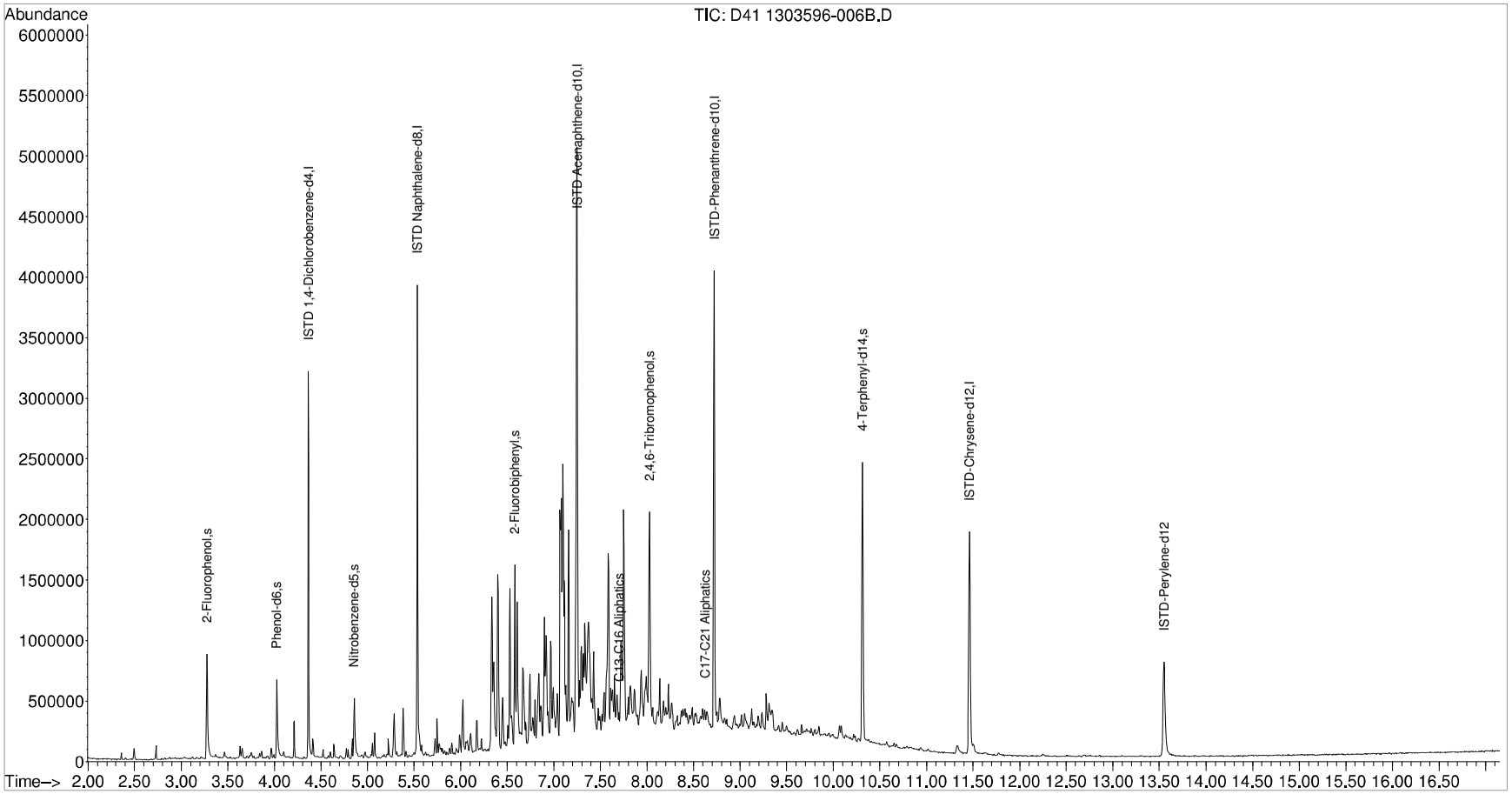
Quant Time: Mar 27 10:58:16 2013
Quant Method : C:\MSDCHEM\1\METHODS\QUANTFULLSV 03-19-13.M
Quant Title : Semi-Volatile Compounds HP-GCMS 5973-B
QLast Update : Sat Mar 23 15:30:07 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : Z:\MSDChem\1\DATA\MAR 13\26MAR13-A\
Data File : D41 1303596-006B.D
Acq On : 26 Mar 2013 5:10 pm
Operator : ALICIA HABERLE
Sample : 1303596-006B
Misc : SAMP
ALS Vial : 12 Sample Multiplier: 1

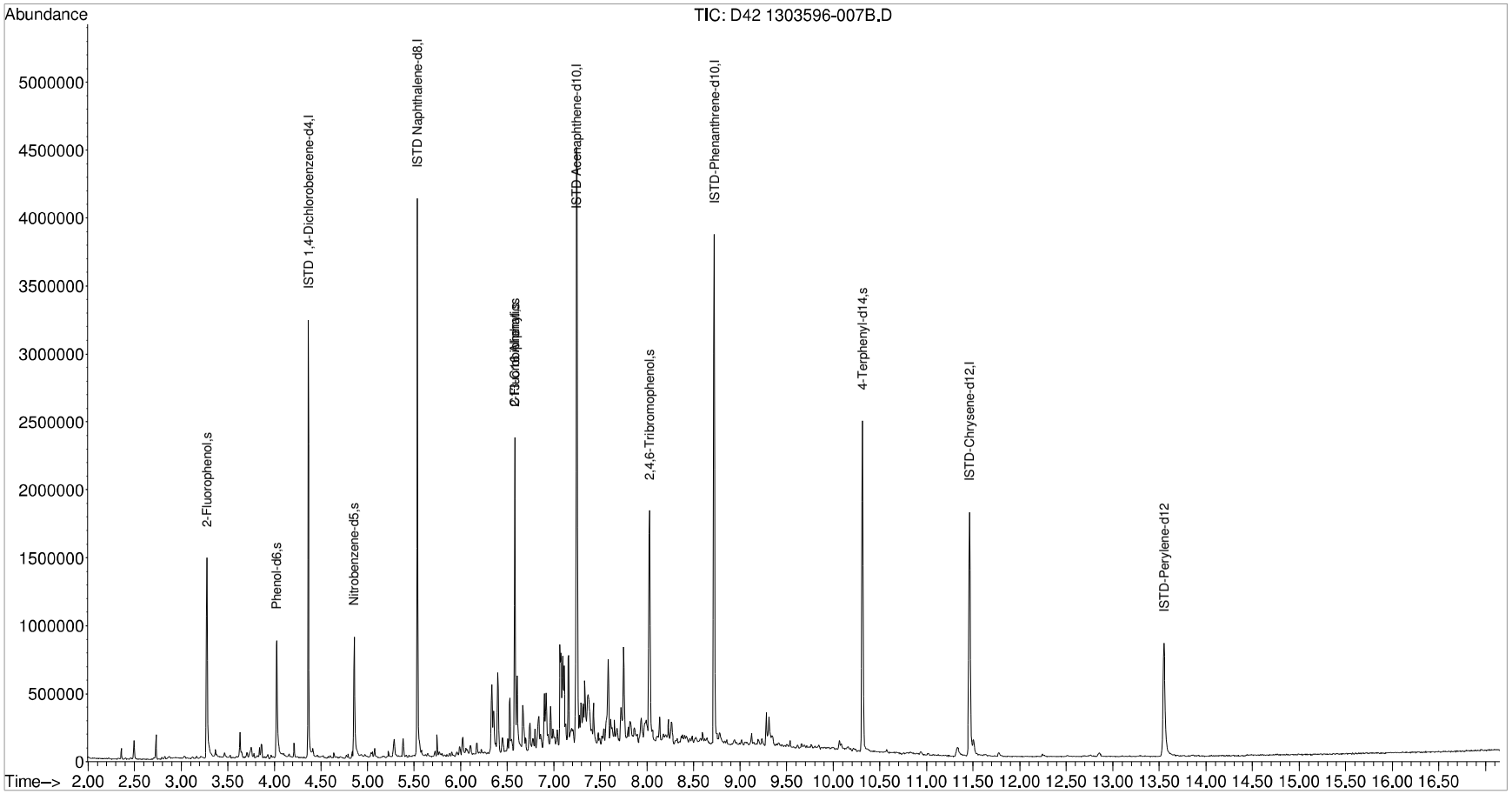
Quant Time: Mar 27 10:59:02 2013
Quant Method : C:\MSDCHEM\1\METHODS\QUANTFULLSV 03-19-13.M
Quant Title : Semi-Volatile Compounds HP-GCMS 5973-B
QLast Update : Sat Mar 23 15:30:07 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : Z:\MSDChem\1\DATA\MAR 13\26MAR13-A\
Data File : D42 1303596-007B.D
Acq On : 26 Mar 2013 5:36 pm
Operator : ALICIA HABERLE
Sample : 1303596-007B
Misc : SAMP
ALS Vial : 13 Sample Multiplier: 1

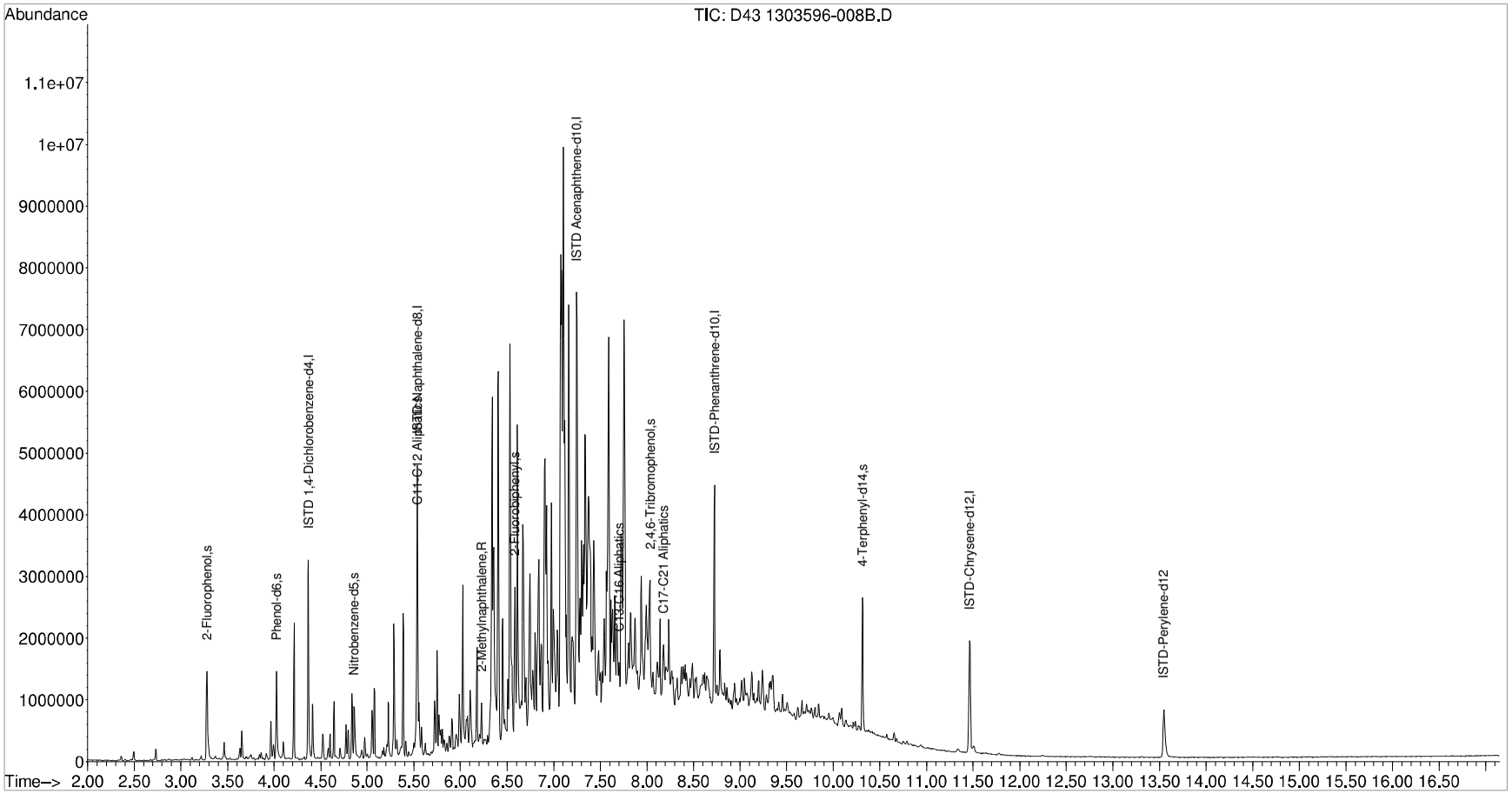
Quant Time: Mar 27 10:59:45 2013
Quant Method : C:\MSDCHEM\1\METHODS\QUANTFULLSV 03-19-13.M
Quant Title : Semi-Volatile Compounds HP-GCMS 5973-B
QLast Update : Sat Mar 23 15:30:07 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : Z:\MSDChem\1\DATA\MAR 13\26MAR13-A\
Data File : D43 1303596-008B.D
Acq On : 26 Mar 2013 6:03 pm
Operator : ALICIA HABERLE
Sample : 1303596-008B
Misc : SAMP
ALS Vial : 14 Sample Multiplier: 1

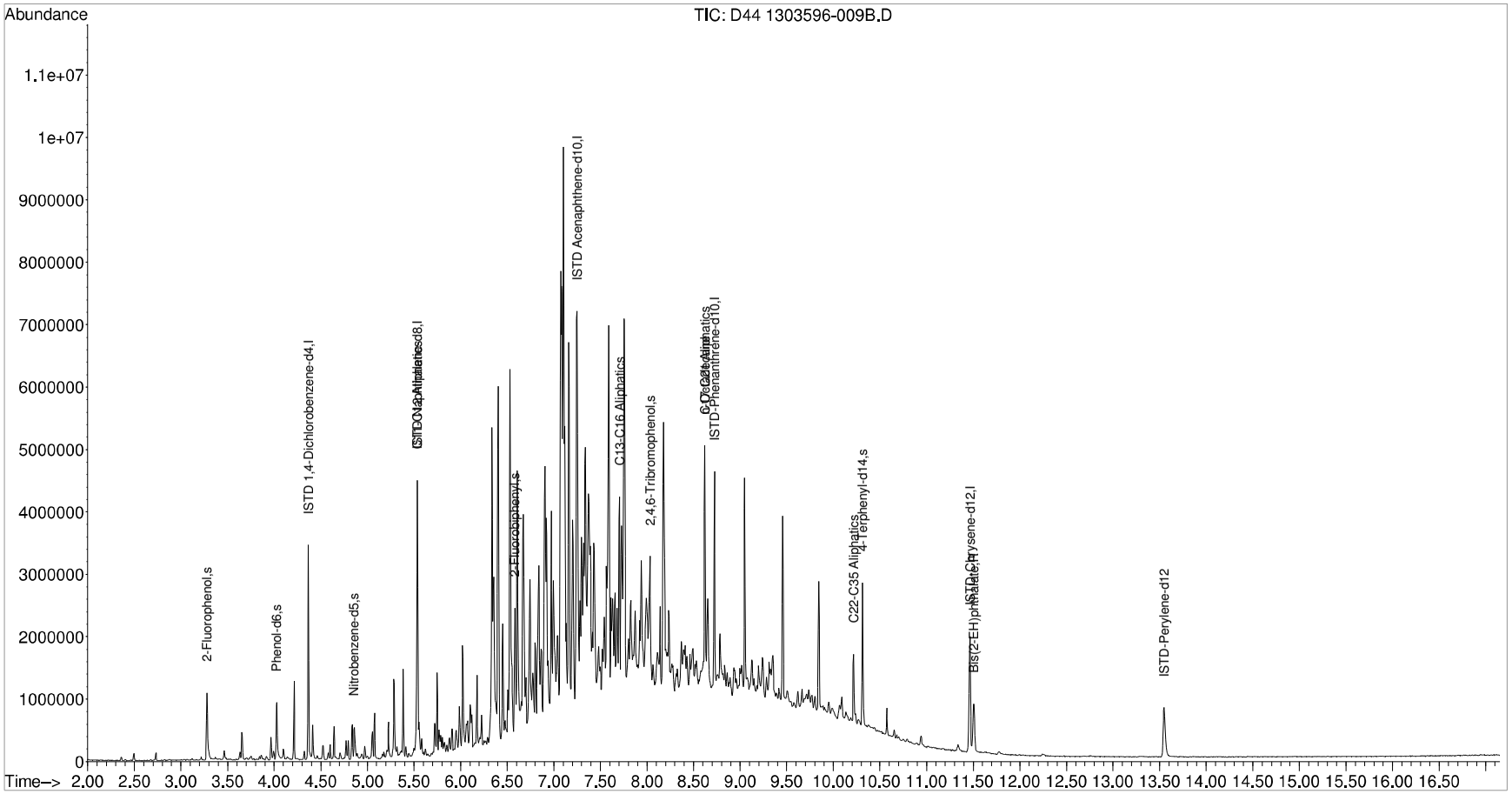
Quant Time: Mar 27 11:01:06 2013
Quant Method : C:\MSDCHEM\1\METHODS\QUANTFULLSV 03-19-13.M
Quant Title : Semi-Volatile Compounds HP-GCMS 5973-B
QLast Update : Sat Mar 23 15:30:07 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : Z:\MSDChem\1\DATA\MAR 13\26MAR13-A\
Data File : D44 1303596-009B.D
Acq On : 26 Mar 2013 6:30 pm
Operator : ALICIA HABERLE
Sample : 1303596-009B
Misc : SAMP
ALS Vial : 15 Sample Multiplier: 1

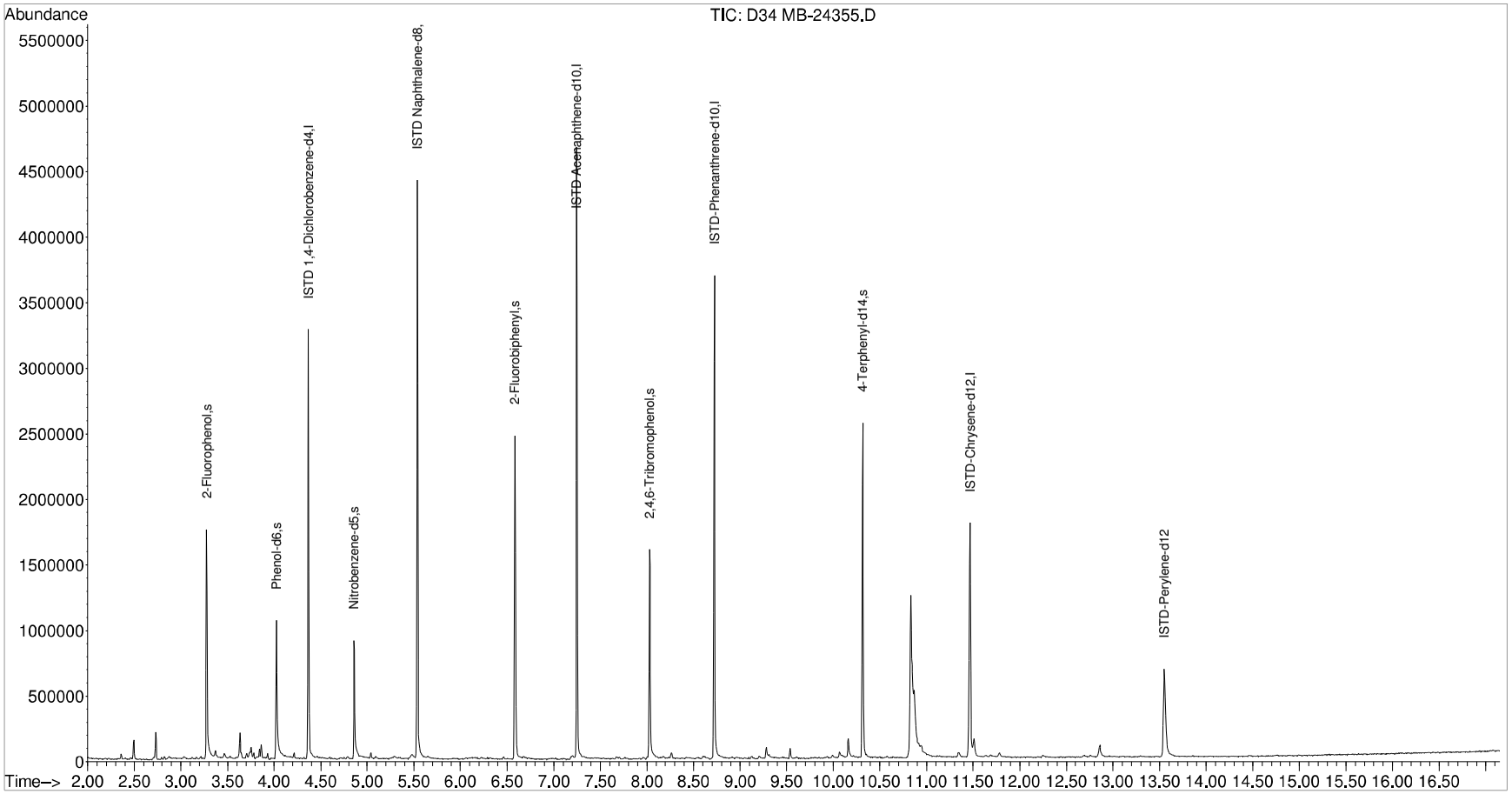
Quant Time: Mar 27 11:02:12 2013
Quant Method : C:\MSDCHEM\1\METHODS\QUANTFULLSV 03-19-13.M
Quant Title : Semi-Volatile Compounds HP-GCMS 5973-B
QLast Update : Sat Mar 23 15:30:07 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : Z:\MSDChem\1\DATA\MAR 13\26MAR13-A\
Data File : D34 MB-24355.D
Acq On : 26 Mar 2013 2:05 pm
Operator : ALICIA HABERLE
Sample : MB-24355
Misc : MBLK
ALS Vial : 5 Sample Multiplier: 1

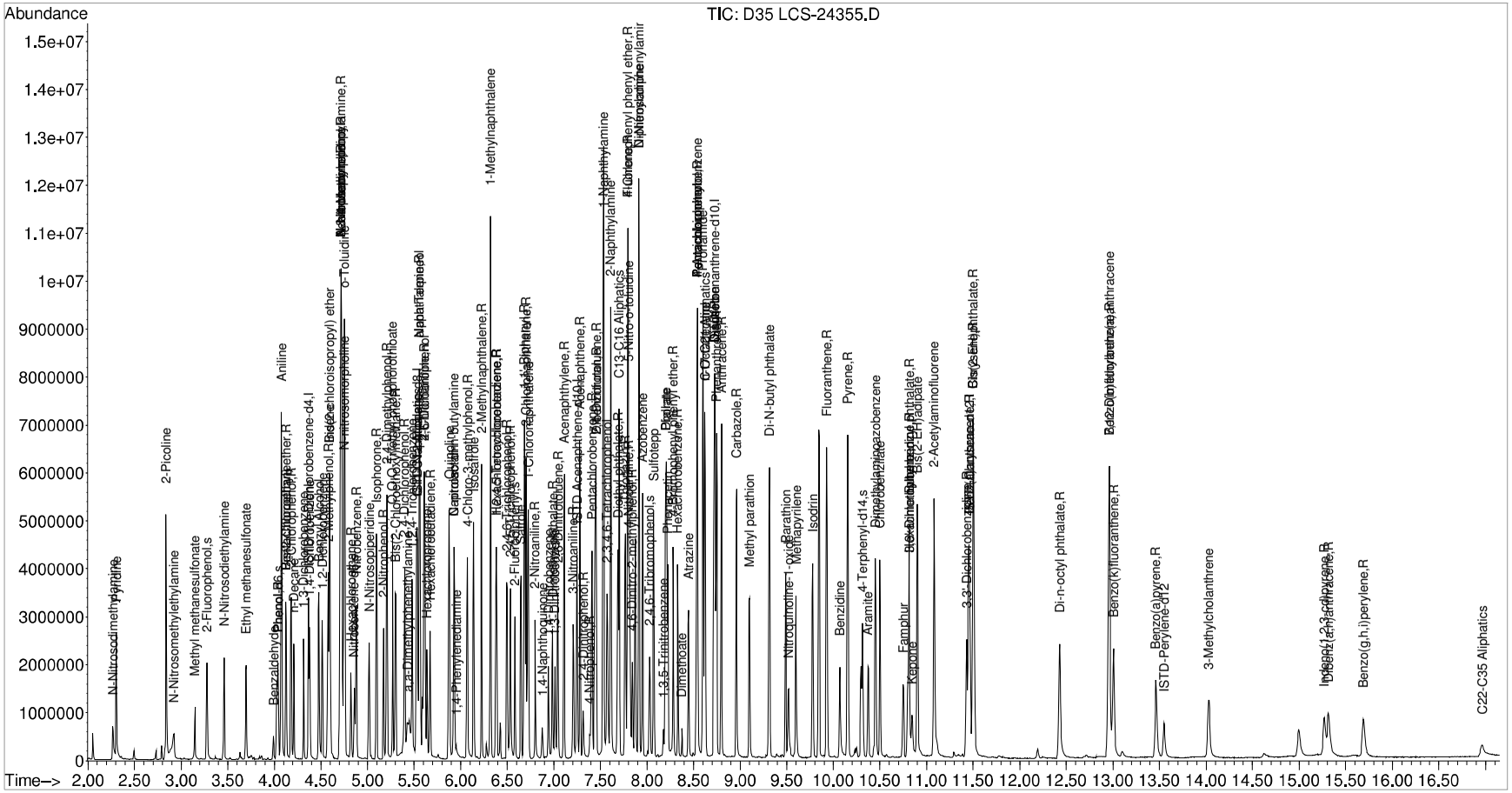
Quant Time: Mar 27 08:26:13 2013
Quant Method : C:\MSDCHEM\1\METHODS\QUANTFULLSV 03-19-13.M
Quant Title : Semi-Volatile Compounds HP-GCMS 5973-B
QLast Update : Sat Mar 23 15:30:07 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : Z:\MSDChem\1\DATA\MAR 13\26MAR13-A\
Data File : D35 LCS-24355.D
Acq On : 26 Mar 2013 2:31 pm
Operator : ALICIA HABERLE
Sample : LCS-24355
Misc : LCS
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 27 08:32:02 2013
Quant Method : C:\MSDCHEM\1\METHODS\QUANTFULLSV 03-19-13.M
Quant Title : Semi-Volatile Compounds HP-GCMS 5973-B
QLast Update : Sat Mar 23 15:30:07 2013
Response via : Initial Calibration

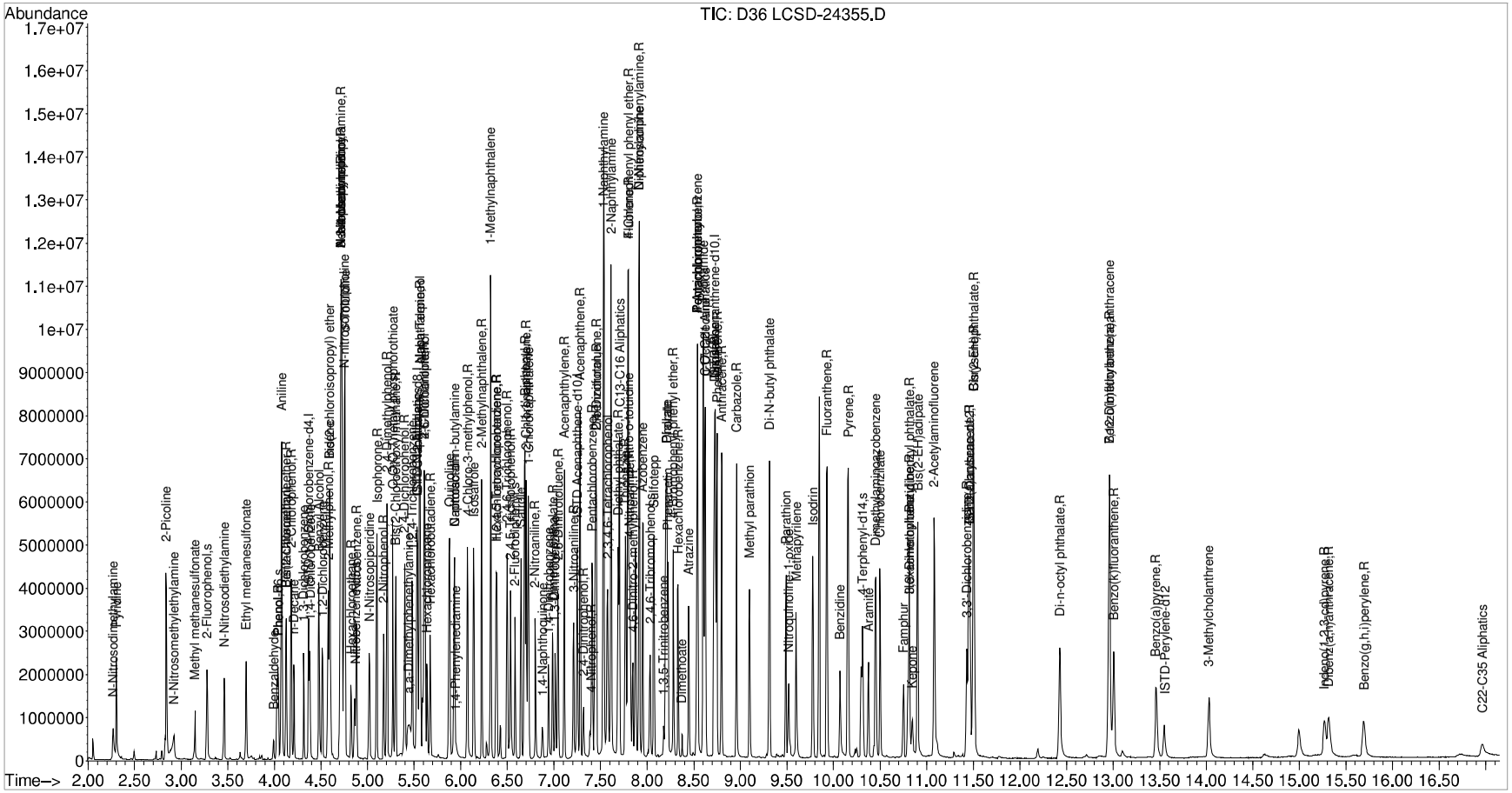


QUANTFULLSV 03-19-13.M Wed Mar 27 08:50:22 2013 Page: 5

Quantitation Report (QT Reviewed)

Data Path : Z:\MSDChem\1\DATA\MAR 13\26MAR13-A\
Data File : D36 LCSD-24355.D
Acq On : 26 Mar 2013 2:58 pm
Operator : ALICIA HABERLE
Sample : LCSD-24355
Misc : LCSD
ALS Vial : 7 Sample Multiplier: 1

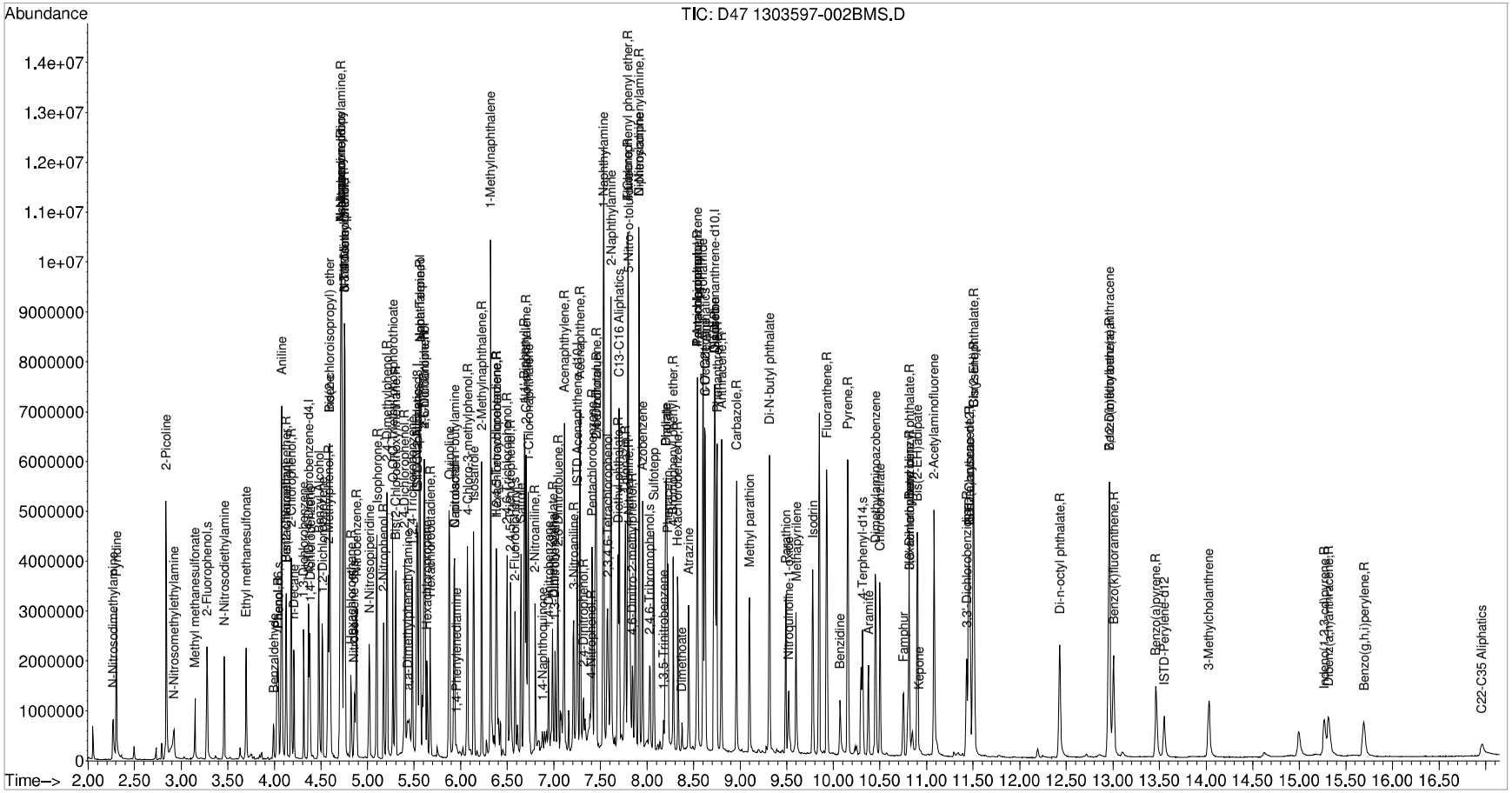
Quant Time: Mar 27 08:33:12 2013
Quant Method : C:\MSDCHEM\1\METHODS\QUANTFULLSV 03-19-13.M
Quant Title : Semi-Volatile Compounds HP-GCMS 5973-B
QLast Update : Sat Mar 23 15:30:07 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : Z:\MSDChem\1\DATA\MAR 13\26MAR13-A\
Data File : D47 1303597-002BMS.D
Acq On : 26 Mar 2013 7:49 pm
Operator : ALICIA HABERLE
Sample : 1303597-002BMS
Misc : MS
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Mar 27 08:36:21 2013
Quant Method : C:\MSDCHEM\1\METHODS\QUANTFULLSV 03-19-13.M
Quant Title : Semi-Volatile Compounds HP-GCMS 5973-B
QLast Update : Sat Mar 23 15:30:07 2013
Response via : Initial Calibration

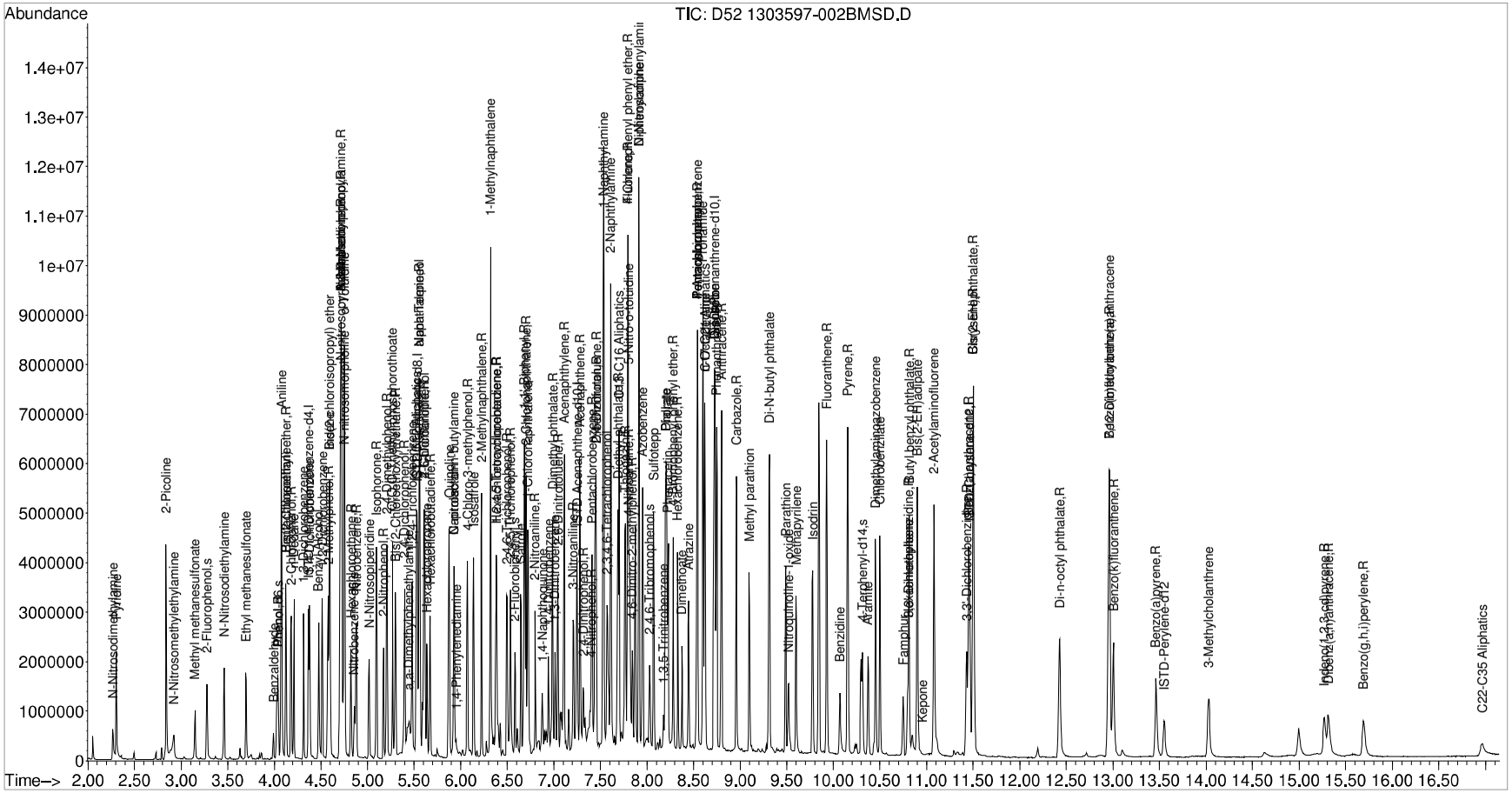


QUANTFULLSV 03-19-13.M Wed Mar 27 08:53:08 2013 Page: 5

Quantitation Report (QT Reviewed)

Data Path : Z:\MSDChem\1\DATA\MAR 13\26MAR13-A\
Data File : D52 1303597-002BMSD.D
Acq On : 26 Mar 2013 10:02 pm
Operator : ALICIA HABERLE
Sample : 1303597-002BMSD
Misc : MSD
ALS Vial : 23 Sample Multiplier: 1

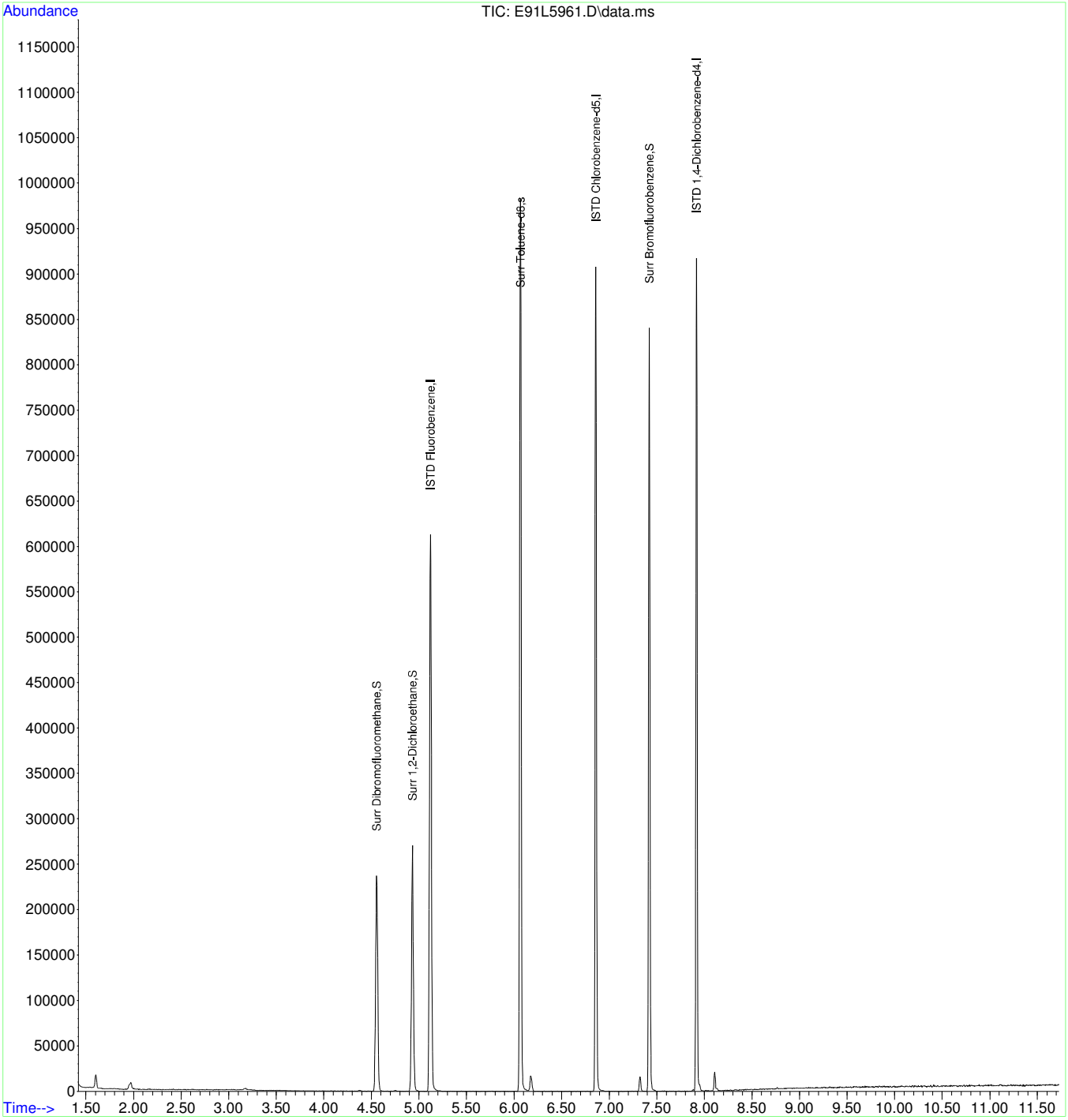
Quant Time: Mar 27 08:36:52 2013
Quant Method : C:\MSDCHEM\1\METHODS\QUANTFULLSV 03-19-13.M
Quant Title : Semi-Volatile Compounds HP-GCMS 5973-B
QLast Update : Sat Mar 23 15:30:07 2013
Response via : Initial Calibration


Abundance
TIC: D52 1303597-002BMSD.D
Time--> 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 6.00 6.50 7.00 7.50 8.00 8.50 9.00 9.50 10.00 10.50 11.00 11.50 12.00 12.50 13.00 13.50 14.00 14.50 15.00 15.50 16.00 16.50
N-Nitrosodimethylamine
2-Picoline
N-Nitrosomethylethylamine
Methyl methanesulfonate
2-Fluorophenol,s
N-Nitrosodiethylamine
Ethyl methanesulfonate
Benzaldehyde
Aniline
N-Nitrosopiperidine
Isophorone,R
1,4-Phenylenediamine
Hexachloroethane,R
Nitrobenzene,R
Isophorone
Benzyl alcohol
2-Nitrophenol,R
2,4-Dimethylphenol,R
Bis(2-Chloroethoxy)methane,R
Hexachlorocyclopentadiene,R
2,4-Dichlorophenol,R
Naphthalene-d8,I
Naphthalene,R
Chlorobenzene-d5,I
Chlorobenzene,R
Benzene-d6,I
Benzene,R
Phenol-d6,s
Phenol,R
Bis(2-chloroisopropyl) ether
N-Nitrosomorpholine
Pyridine,R
Methylamine,R
Propylamine,R
Dimethylamine,R
Ethylamine,R
Methylethylamine,R
Dimethylethylamine,R
Diethylamine,R
Propylamine,R
Butylamine,R
Isobutylamine,R
Sec-butylamine,R
Tert-butylamine,R
Pentylamine,R
Hexylamine,R
Cyclohexylamine,R
Heptylamine,R
Octylamine,R
Nonylamine,R
Decylamine,R
Undecylamine,R
Dodecylamine,R
Tridecylamine,R
Tetradecylamine,R
Pentadecylamine,R
Hexadecylamine,R
Heptadecylamine,R
Octadecylamine,R
Nonadecylamine,R
Eicosylamine,R
Heneicosylamine,R
Docosylamine,R
Tricosylamine,R
Tetracosylamine,R
Pentacosylamine,R
Hexacosylamine,R
Heptacosylamine,R
Octacosylamine,R
Nonacosylamine,R
Triacontylamine,R
Hentriacontylamine,R
Dotriacontylamine,R
Tritriacontylamine,R
Tetratriacontylamine,R
Pentatriacontylamine,R
Hexatriacontylamine,R
Heptatriacontylamine,R
Octatriacontylamine,R
Nonatriacontylamine,R
Tetracosylamine
Pentacosylamine
Hexacosylamine
Heptacosylamine
Octacosylamine
Nonacosylamine
Triacontylamine
Hentriacontylamine
Dotriacontylamine
Tritriacontylamine
Tetratriacontylamine
Pentatriacontylamine
Hexatriacontylamine
Heptatriacontylamine
Octatriacontylamine
Nonatriacontylamine

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\MAR13-D\24MAR13\
Data File : E91L5961.D
Acq On : 24 Mar 2013 7:33 am
Operator : AAP
Sample : 1303596-001A
Misc : SAMP 5.0ML 1OF3 JO
ALS Vial : 6 Sample Multiplier: 1

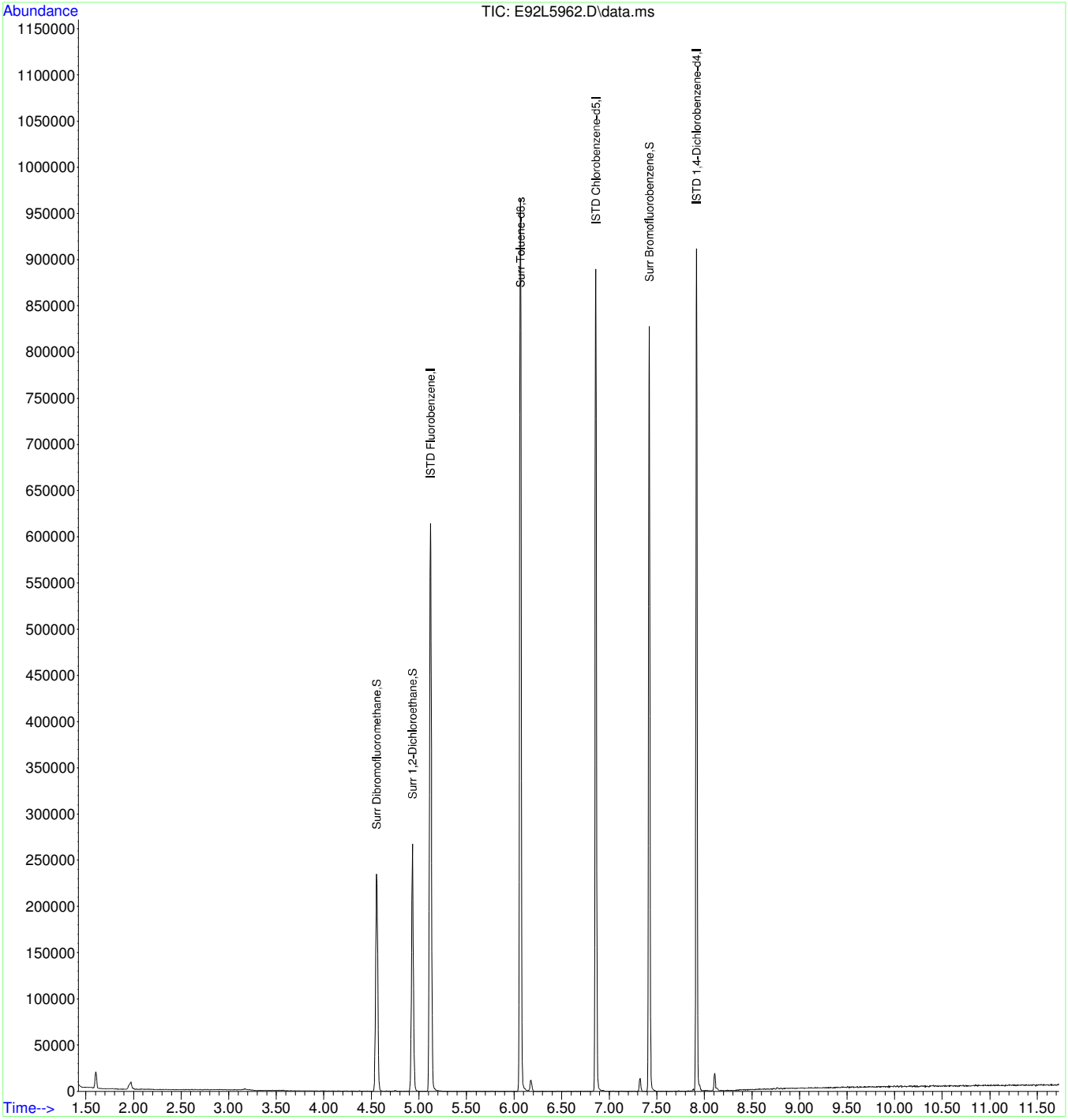
Quant Time: Mar 24 10:30:37 2013
Quant Method : C:\MSDCHEM\1\METHODS\DFULLW_14.M
Quant Title : VOA Calibration
QLast Update : Sun Mar 24 06:12:19 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\MAR13-D\24MAR13\
Data File : E92L5962.D
Acq On : 24 Mar 2013 7:52 am
Operator : AAP
Sample : 1303596-002A
Misc : SAMP 5.0ML 1OF3 JO
ALS Vial : 7 Sample Multiplier: 1

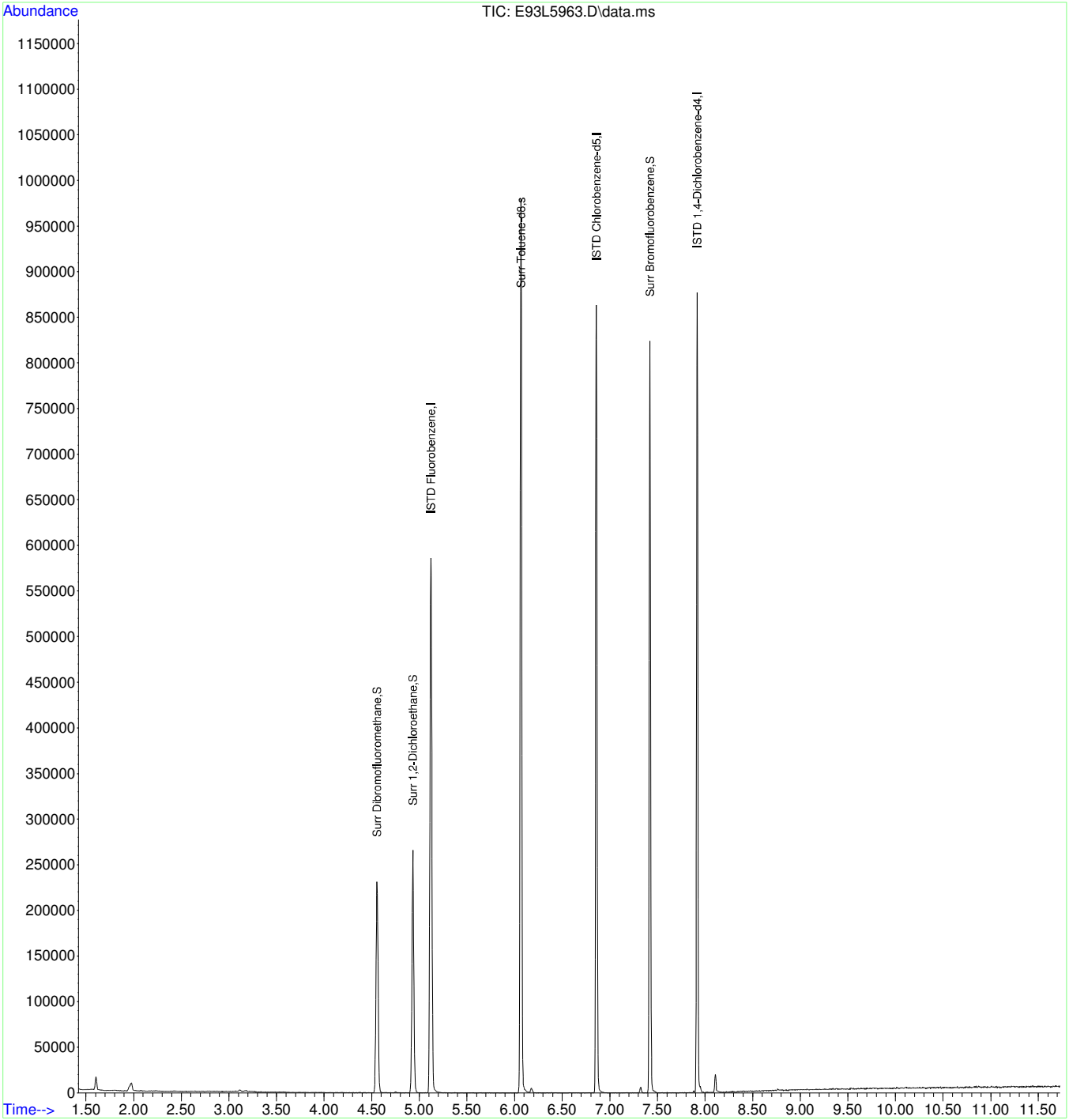
Quant Time: Mar 24 10:31:05 2013
Quant Method : C:\MSDCHEM\1\METHODS\DFULLW_14.M
Quant Title : VOA Calibration
QLast Update : Sun Mar 24 06:12:19 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\MAR13-D\24MAR13\
Data File : E93L5963.D
Acq On : 24 Mar 2013 8:11 am
Operator : AAP
Sample : 1303596-003A
Misc : SAMP 5.0ML 1OF3 JO
ALS Vial : 8 Sample Multiplier: 1

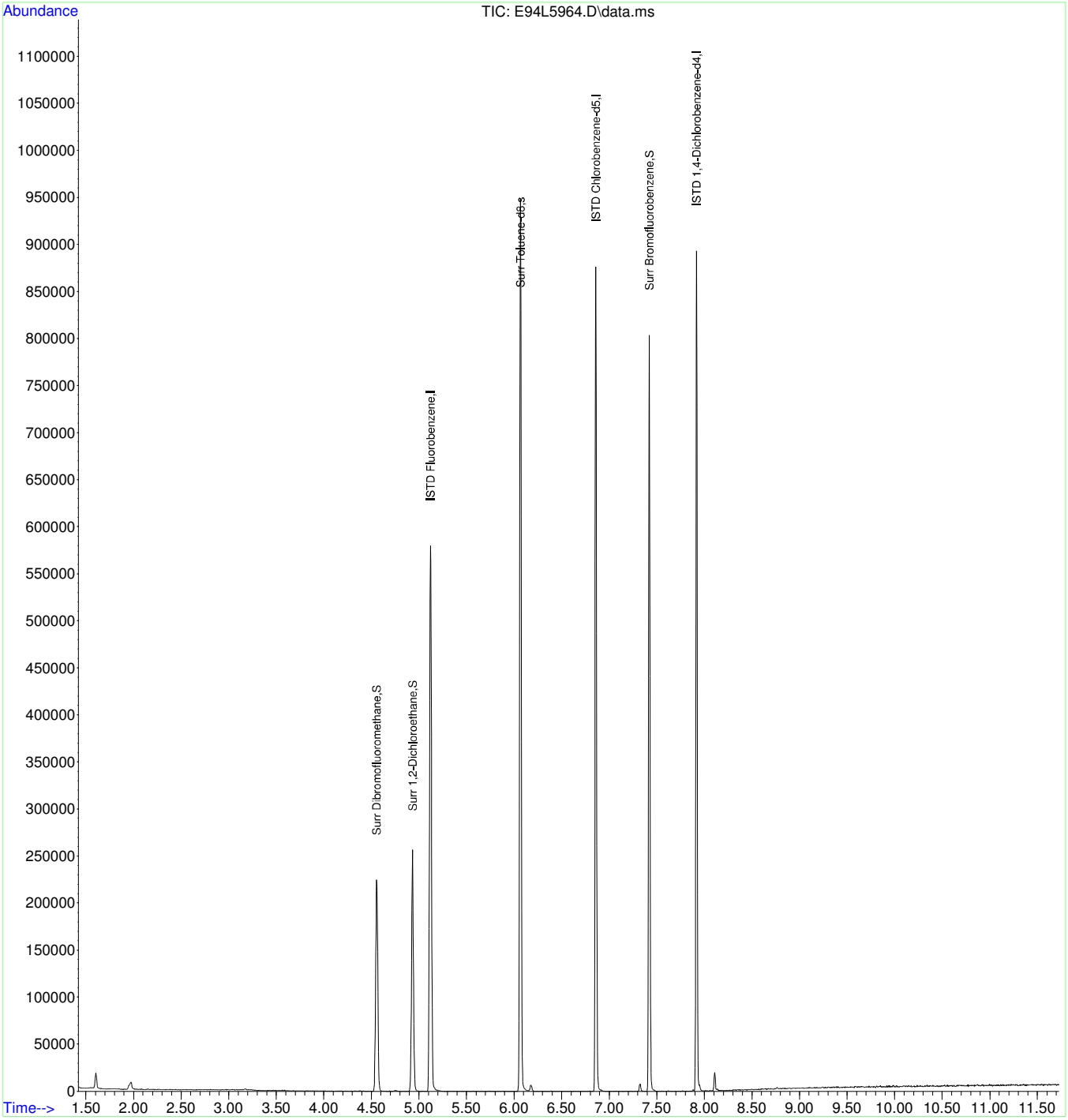
Quant Time: Mar 24 10:31:26 2013
Quant Method : C:\MSDCHEM\1\METHODS\DFULLW_14.M
Quant Title : VOA Calibration
QLast Update : Sun Mar 24 06:12:19 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\MAR13-D\24MAR13\
Data File : E94L5964.D
Acq On : 24 Mar 2013 8:30 am
Operator : AAP
Sample : 1303596-004A
Misc : SAMP 5.0ML 1OF3 JO
ALS Vial : 9 Sample Multiplier: 1

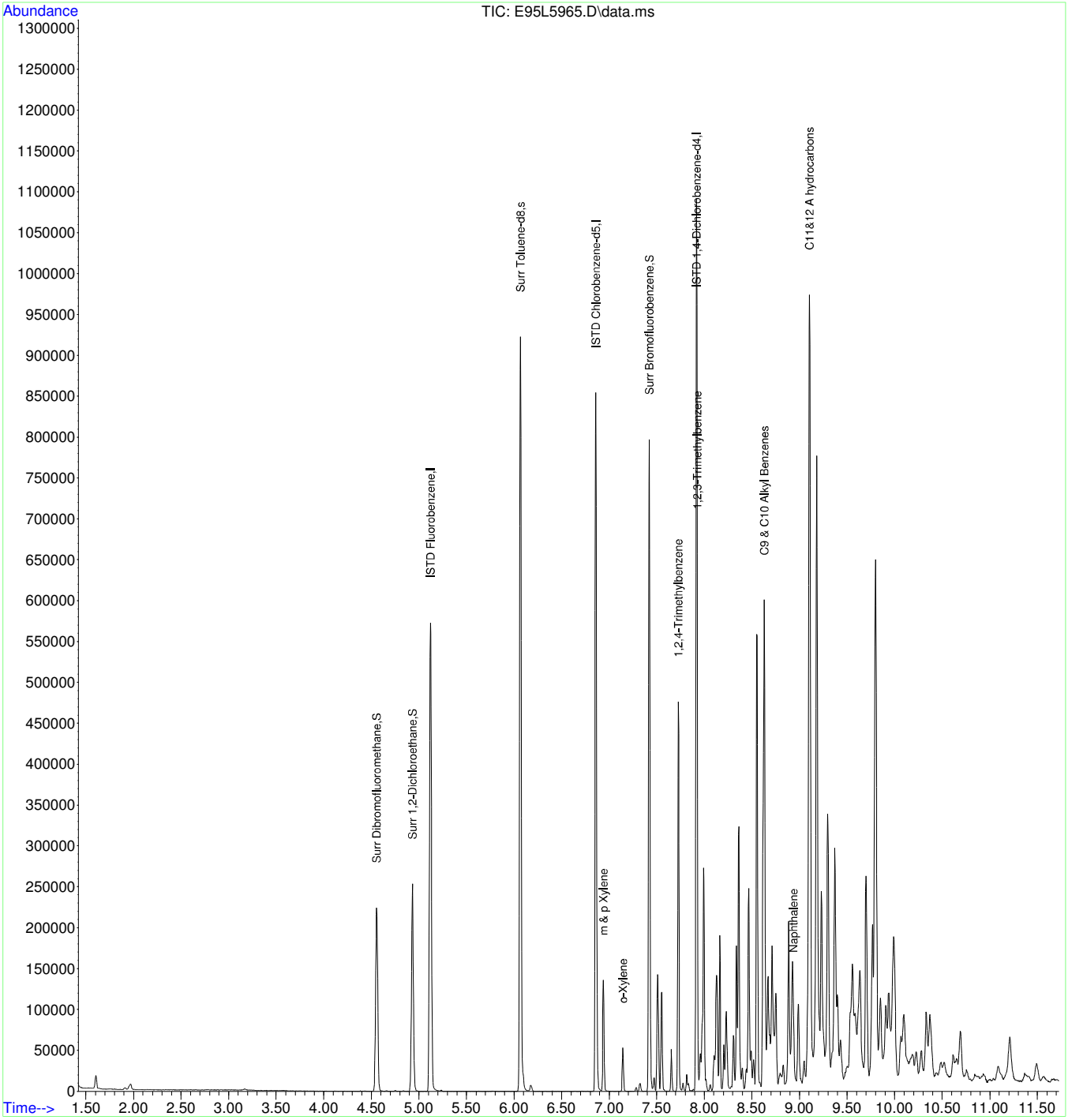
Quant Time: Mar 24 10:31:53 2013
Quant Method : C:\MSDCHEM\1\METHODS\DFULLW_14.M
Quant Title : VOA Calibration
QLast Update : Sun Mar 24 06:12:19 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\MAR13-D\24MAR13\
Data File : E95L5965.D
Acq On : 24 Mar 2013 8:49 am
Operator : AAP
Sample : 1303596-005A
Misc : SAMP 5.0ML 1OF3 JO
ALS Vial : 10 Sample Multiplier: 1

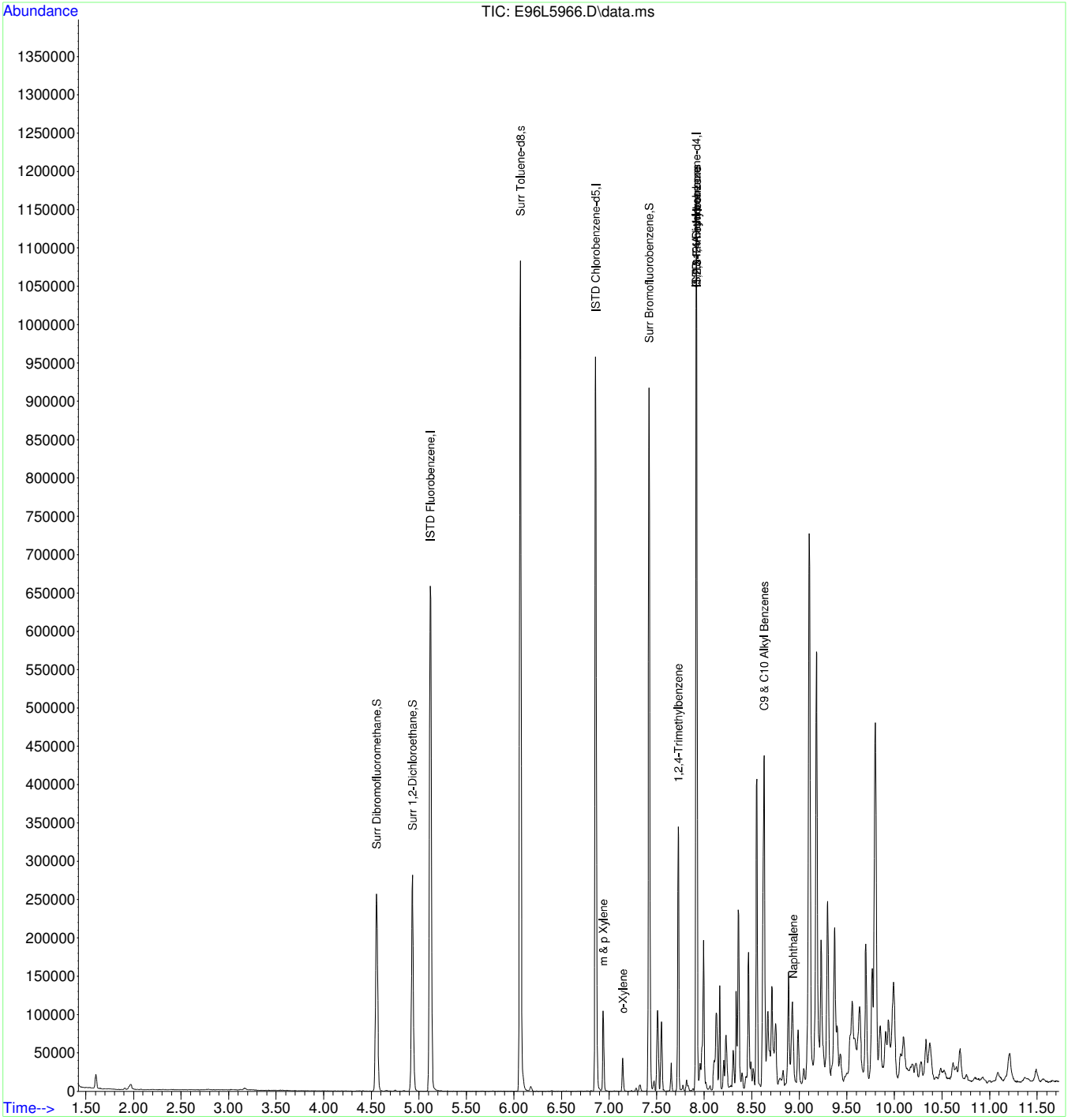
Quant Time: Mar 24 10:33:10 2013
Quant Method : C:\MSDCHEM\1\METHODS\DFULLW_14.M
Quant Title : VOA Calibration
QLast Update : Sun Mar 24 06:12:19 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\MAR13-D\24MAR13\
Data File : E96L5966.D
Acq On : 24 Mar 2013 9:08 am
Operator : AAP
Sample : 1303596-006A
Misc : SAMP 5.0ML 1OF3 JO
ALS Vial : 11 Sample Multiplier: 1

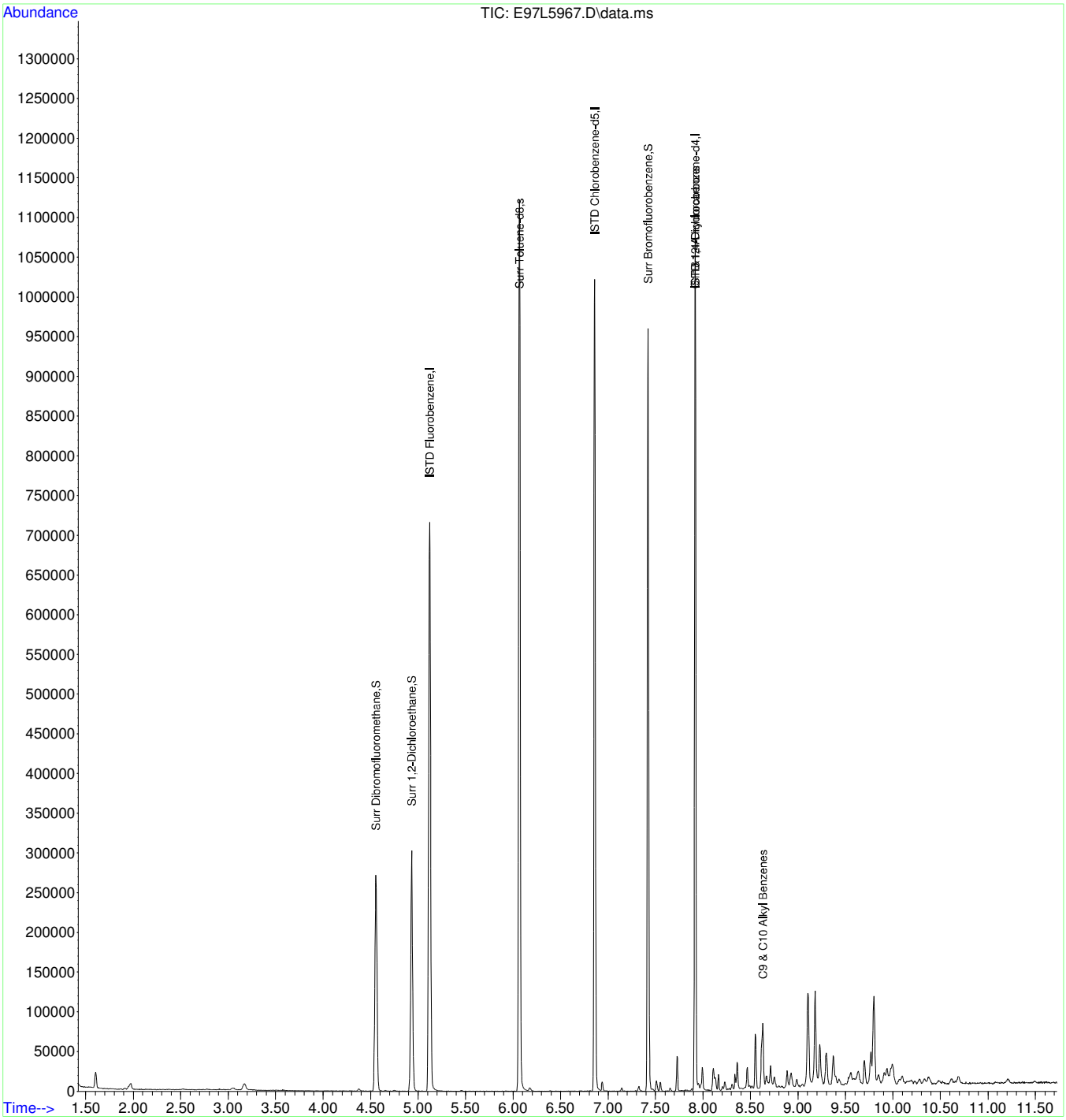
Quant Time: Mar 24 10:34:09 2013
Quant Method : C:\MSDCHEM\1\METHODS\DFULLW_14.M
Quant Title : VOA Calibration
QLast Update : Sun Mar 24 06:12:19 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\MAR13-D\24MAR13\
Data File : E97L5967.D
Acq On : 24 Mar 2013 9:27 am
Operator : AAP
Sample : 1303596-007A
Misc : SAMP 5.0ML 1OF3 JO
ALS Vial : 12 Sample Multiplier: 1

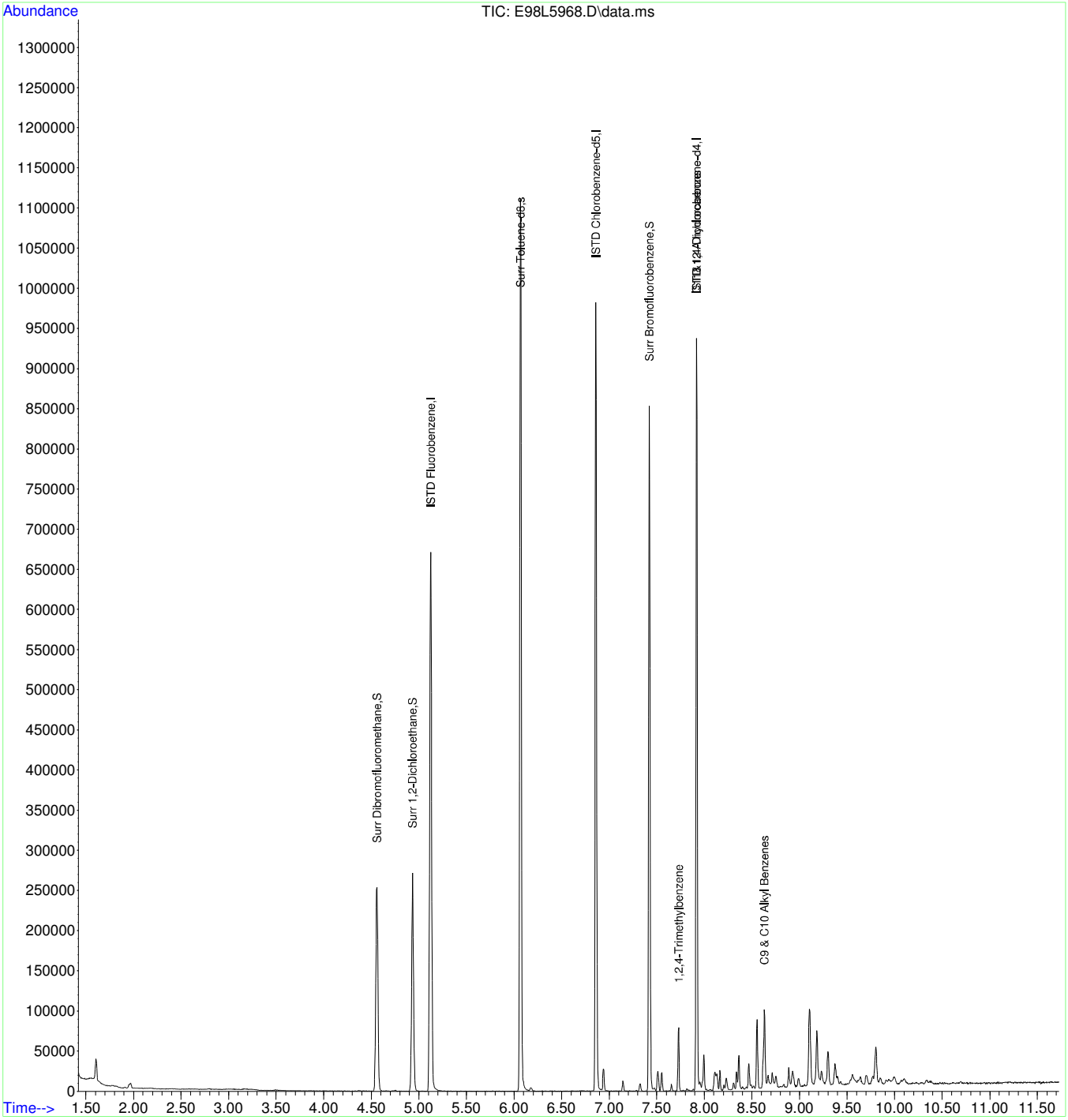
Quant Time: Mar 24 10:34:59 2013
Quant Method : C:\MSDCHEM\1\METHODS\DFULLW_14.M
Quant Title : VOA Calibration
QLast Update : Sun Mar 24 06:12:19 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\MAR13-D\24MAR13\
Data File : E98L5968.D
Acq On : 24 Mar 2013 10:37 am
Operator : AAP
Sample : 1303596-008A
Misc : SAMP 5ML/50ML 1OF3 JO
ALS Vial : 13 Sample Multiplier: 10

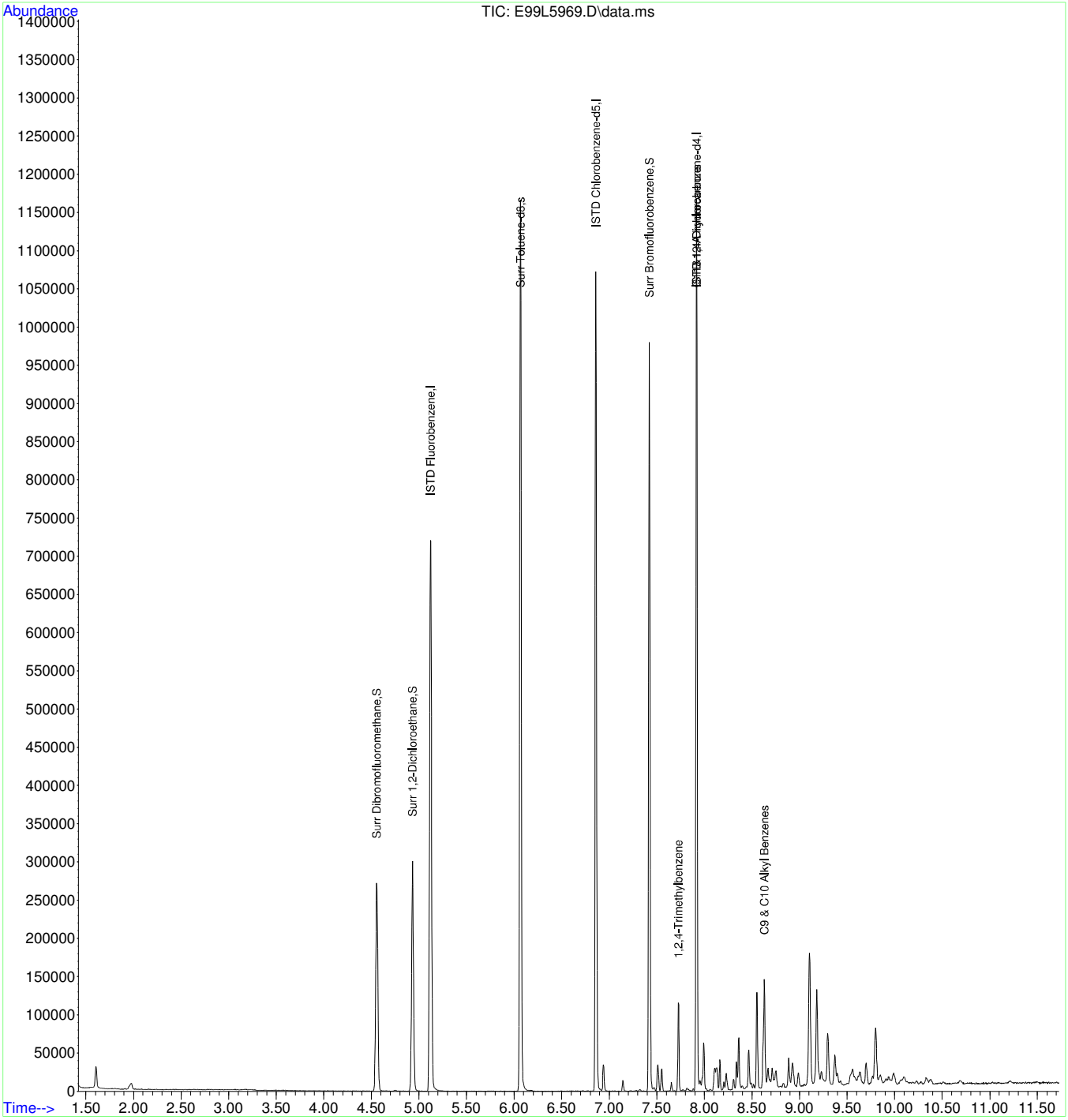
Quant Time: Mar 24 10:51:08 2013
Quant Method : C:\MSDCHEM\1\METHODS\DFULLW_14.M
Quant Title : VOA Calibration
QLast Update : Sun Mar 24 06:12:19 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\MAR13-D\24MAR13\
Data File : E99L5969.D
Acq On : 24 Mar 2013 10:56 am
Operator : AAP
Sample : 1303596-009A
Misc : SAMP 5ML/50ML 1OF3 JO
ALS Vial : 14 Sample Multiplier: 10

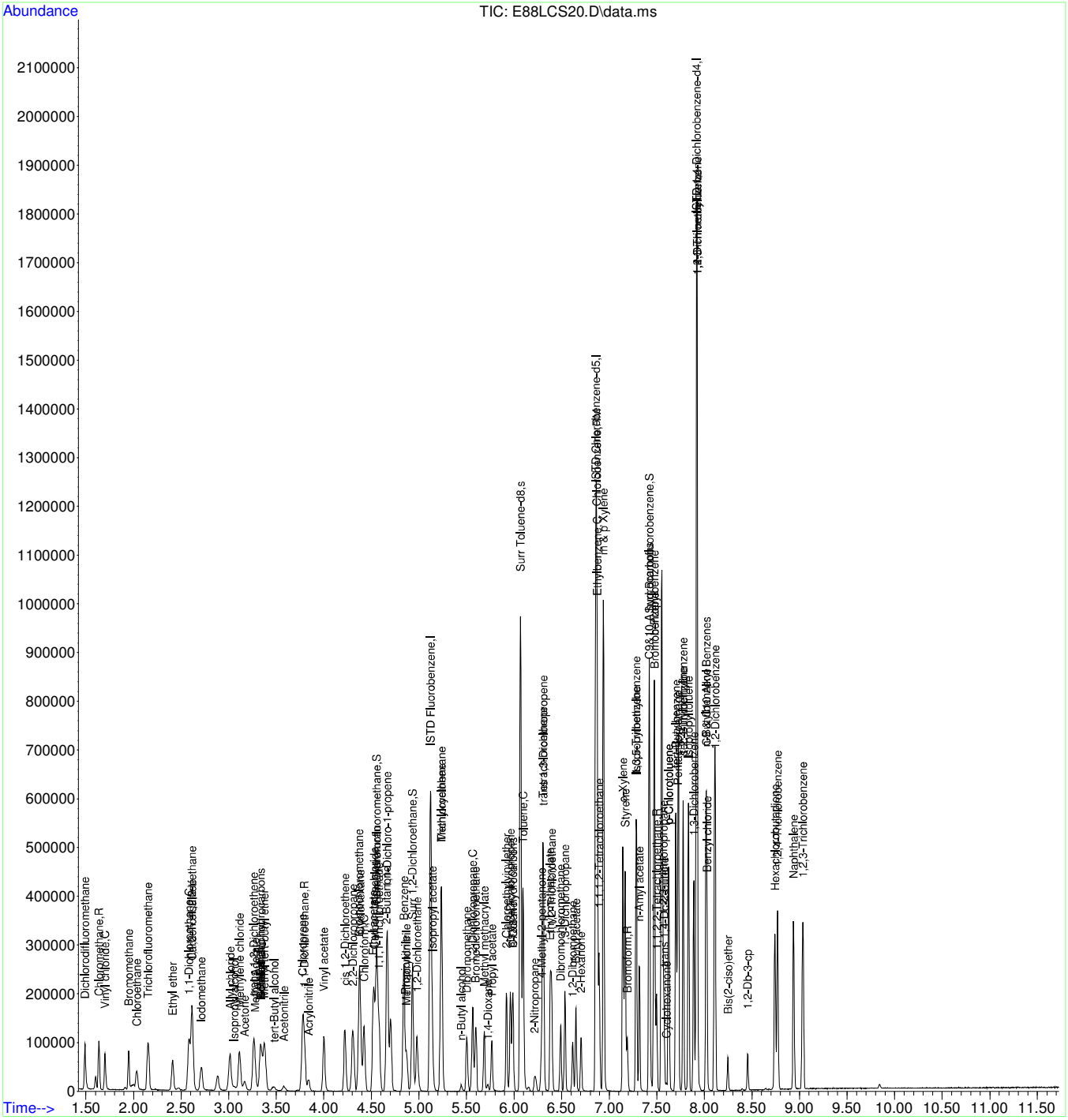
Quant Time: Mar 24 11:12:18 2013
Quant Method : C:\MSDCHEM\1\METHODS\DFULLW_14.M
Quant Title : VOA Calibration
QLast Update : Sun Mar 24 06:12:19 2013
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\MAR13-D\24MAR13\
Data File : E88LCS20.D
Acq On : 24 Mar 2013 6:36 am
Operator : AAP
Sample : LCS VOC 032413A
Misc : LCS SEE COVERSHEET FOR ID AND AMOUNT JO
ALS Vial : 3 Sample Multiplier: 1

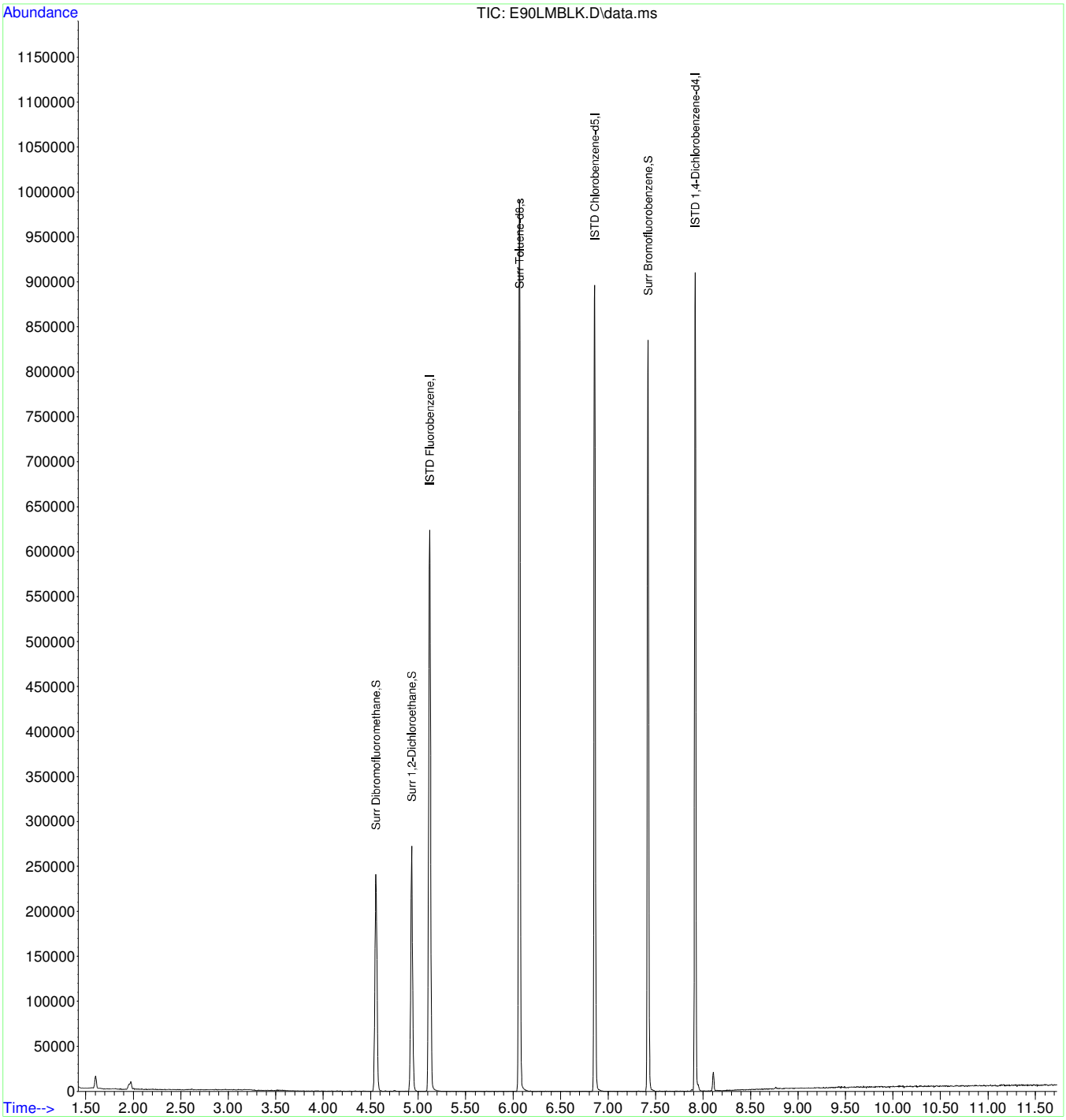
Quant Time: Mar 24 06:51:20 2013
Quant Method : C:\msdchem\1\methods\DFULLW_14.M
Quant Title : VOA Calibration
QLast Update : Sun Mar 24 06:12:19 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\MAR13-D\24MAR13\
Data File : E90LMBLK.D
Acq On : 24 Mar 2013 7:14 am
Operator : AAP
Sample : MB VOC 032413A
Misc : MBLK 5.0ML JO
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Mar 24 07:35:00 2013
Quant Method : C:\MSDCHEM\1\METHODS\DFULLW_14.M
Quant Title : VOA Calibration
QLast Update : Sun Mar 24 06:12:19 2013
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

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Data Path : C:\msdchem\1\data\MAR13-D\24MAR13\
Data File : F00S5968.D
Acq On    : 24 Mar 2013  11:15 am
Operator  : AAP
Sample    : 1303596-008AMS
Misc      : MS          5ML/50ML       1OF3     JO
ALS Vial  : 15   Sample Multiplier: 10

Quant Time: Mar 24 11:27:07 2013
Quant Method : C:\MSDCHEM\1\METHODS\DFULLW_14.M
Quant Title  : VOA  Calibration
QLast Update : Sun Mar 24 06:12:19 2013
Response via : Initial Calibration
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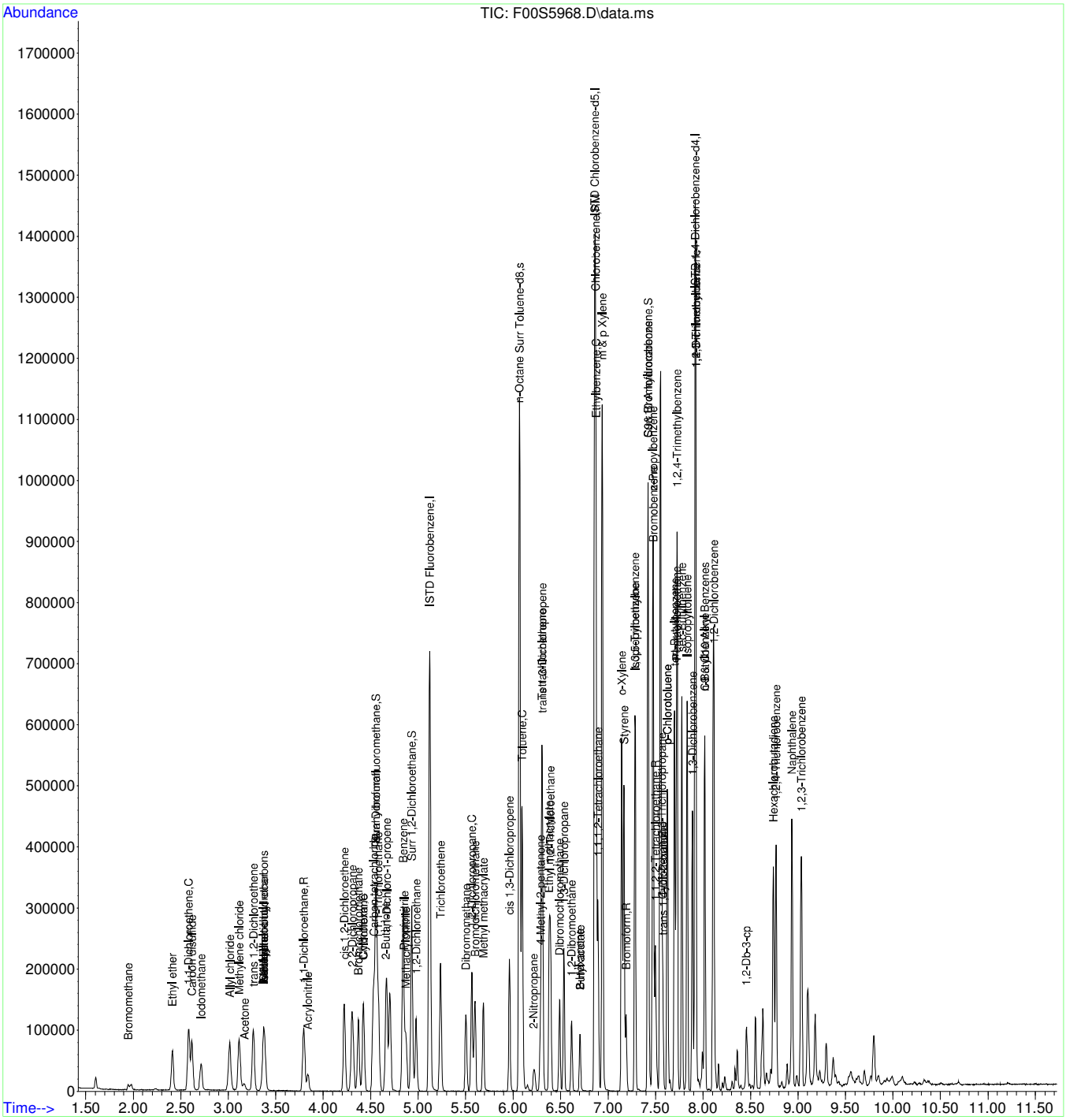

Quantitation Report (Not Reviewed)

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Data Path : C:\msdchem\1\data\MAR13-D\24MAR13\
Data File : F01D5968.D
Acq On    : 24 Mar 2013  11:34 am
Operator  : AAP
Sample    : 1303596-008AMSD
Misc      : MSD        5ML/50ML       1OF3     JO
ALS Vial  : 16   Sample Multiplier: 10

Quant Time: Mar 24 11:46:02 2013
Quant Method : C:\MSDCHEM\1\METHODS\DFULLW_14.M
Quant Title  : VOA  Calibration
QLast Update : Sun Mar 24 06:12:19 2013
Response via : Initial Calibration
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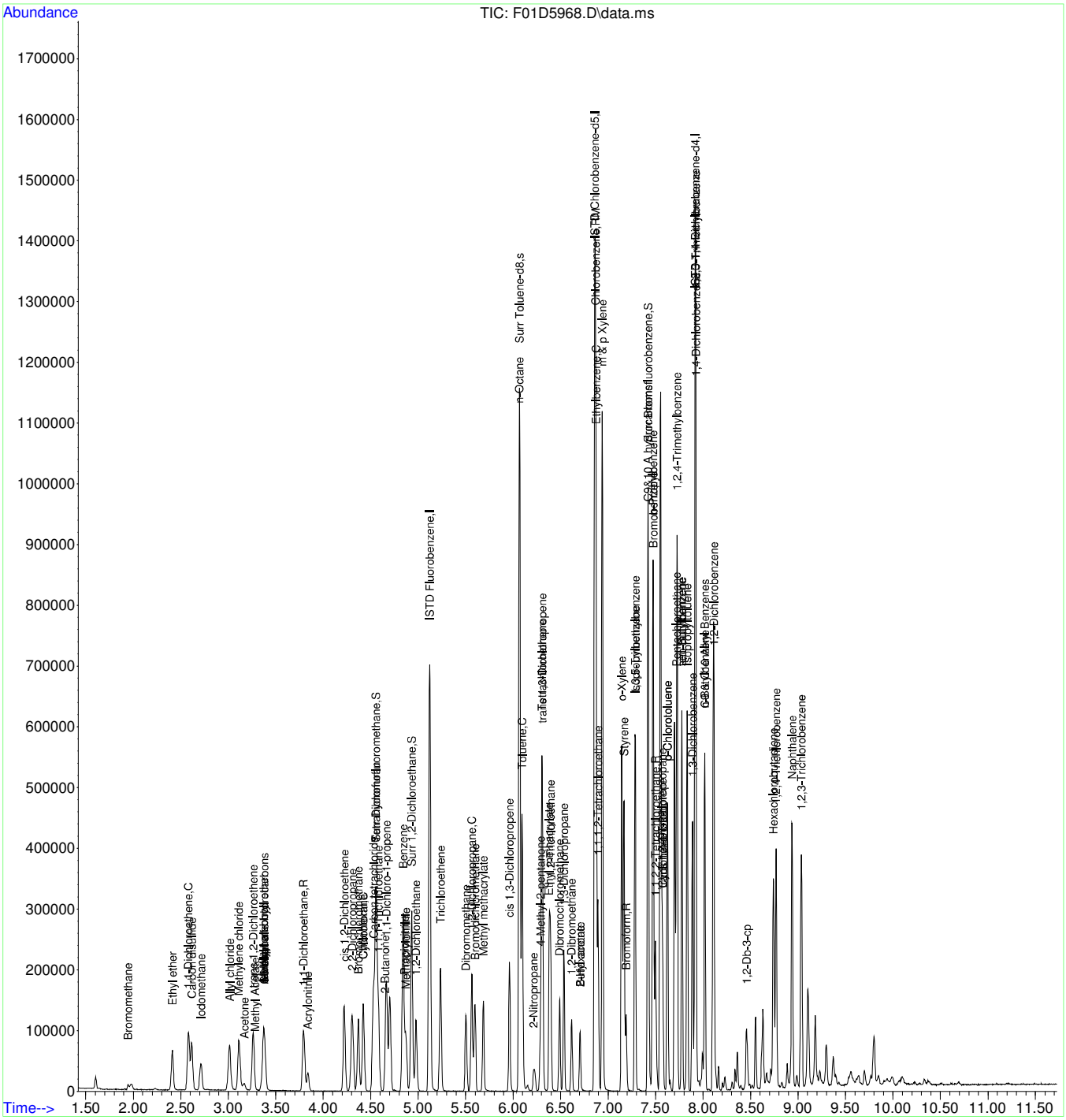

American West Analytical Laboratories

D

WORK ORDER Summary

Work Order: **1303596**

Client: Utah Division of Water Quality

Due Date: 3/26/2013

Client ID: UTD200 **Contact:** Chris Bittner

Project: **MP 44.9 Incident** **QC Level:** III WO Type: Standard

Comments: Next Day Rush - QC3 / 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	
1303596-001A	**East of I-15 / 4920392**	3/23/2013 0900h	3/23/2013 1410h	**8260-W**	Aqueous	☑	VOCFridge	3
				Test Group: 8260-W-Full; # of Analytes: 103 / # of Surr: 4				
1303596-001B				**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:				
1303596-001C				**3510-TPH-PR**		☐	Walkin-TPH (Liters)	
				8015-W-TPH(1L)		☑	Walkin-TPH (Liters)	
				Test Group: 8015-W-TPH1L; # of Analytes: 1 / # of Surr: 1				
1303596-001D				**3510-ORO-PR**		☐	Walkin-oro (Liters)	
				8015-W-ORO(1L)		☐	Walkin-oro (Liters)	
1303596-001E				**COD-HACH8000**		☐	ww - cod	1
1303596-002A	**South Marina / 4920495**	3/23/2013 1000h	3/23/2013 1410h	**8260-W**	Aqueous	☑	VOCFridge	3
				Test Group: 8260-W-Full; # of Analytes: 103 / # of Surr: 4				
1303596-002B				**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:				
1303596-002C				**3510-TPH-PR**		☐	Walkin-TPH (Liters)	
				8015-W-TPH(1L)		☑	Walkin-TPH (Liters)	
				Test Group: 8015-W-TPH1L; # of Analytes: 1 / # of Surr: 1				
1303596-002D				**3510-ORO-PR**		☐	Walkin-oro (Liters)	
				8015-W-ORO(1L)		☐	Walkin-oro (Liters)	
1303596-002E				**COD-HACH8000**		☐	ww - cod	1
1303596-003A	**Field Blank**	3/23/2013 1030h	3/23/2013 1410h	**8260-W**	Aqueous	☑	VOCFridge	3
				Test Group: 8260-W-Full; # of Analytes: 103 / # of Surr: 4				
1303596-004A	**Trip Blank**	3/23/2013	3/23/2013 1410h	**8260-W**	Aqueous	☑	VOCFridge	3
				Test Group: 8260-W-Full; # of Analytes: 103 / # of Surr: 4				
1303596-005A	**West Boom / 4920396**	3/23/2013 1045h	3/23/2013 1410h	**8260-W**	Aqueous	☑	VOCFridge	3
				Test Group: 8260-W-Full; # of Analytes: 103 / # of Surr: 4				
1303596-005B				**3510-SVOA-PR**		☐	Walkin-Semi	2

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

WORK ORDER Summary

Work Order: **1303596**

Client: Utah Division of Water Quality

Due Date: 3/26/2013

Sample ID	Client Sample ID	Collected Date	Received Date	Test Code	Matrix	Sel	Storage	
1303596-005B	**West Boom / 4920396**	3/23/2013 1045h	3/23/2013 1410h	**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:				
1303596-005C				**3510-TPH-PR**		☐	Walkin-TPH (Liters)	
				8015-W-TPH(1L)		☑	Walkin-TPH (Liters)	
				Test Group: 8015-W-TPH1L; # of Analytes: 1 / # of Surr: 1				
1303596-005D				**3510-ORO-PR**		☐	Walkin-oro (Liters)	
				8015-W-ORO(1L)		☐	Walkin-oro (Liters)	
1303596-005E				**COD-HACH8000**		☐	ww - cod	1
1303596-006A	**East Boom / 4920395**	3/23/2013 1100h	3/23/2013 1410h	**8260-W**	Aqueous	☑	VOCFridge	3
				Test Group: 8260-W-Full; # of Analytes: 103 / # of Surr: 4				
1303596-006B				**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:				
1303596-006C				**3510-TPH-PR**		☐	Walkin-TPH (Liters)	
				8015-W-TPH(1L)		☑	Walkin-TPH (Liters)	
				Test Group: 8015-W-TPH1L; # of Analytes: 1 / # of Surr: 1				
1303596-006D				**3510-ORO-PR**		☐	Walkin-oro (Liters)	
				8015-W-ORO(1L)		☐	Walkin-oro (Liters)	
1303596-006E				**COD-HACH8000**		☐	ww - cod	1
1303596-007A	**North Boom / 4920397**	3/23/2013 1115h	3/23/2013 1410h	**8260-W**	Aqueous	☑	VOCFridge	3
				Test Group: 8260-W-Full; # of Analytes: 103 / # of Surr: 4				
1303596-007B				**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:				
1303596-007C				**3510-TPH-PR**		☐	Walkin-TPH (Liters)	
				8015-W-TPH(1L)		☑	Walkin-TPH (Liters)	
				Test Group: 8015-W-TPH1L; # of Analytes: 1 / # of Surr: 1				
1303596-007D				**3510-ORO-PR**		☐	Walkin-oro (Liters)	
				8015-W-ORO(1L)		☐	Walkin-oro (Liters)	
1303596-007E				**COD-HACH8000**		☐	ww - cod	1
1303596-008A	**Between Weirs / 4920394**	3/23/2013 1130h	3/23/2013 1410h	**8260-W**	Aqueous	☑	VOCFridge	3
				Test Group: 8260-W-Full; # of Analytes: 103 / # of Surr: 4				
1303596-008B				**3510-SVOA-PR**		☐	Walkin-Semi	2

Printed: 3/23/2013 FOR LABORATORY USE ONLY [fill out on page 1]: %M ☐ RT ☐ CN ☐ TAT ☐ QC ☐ HOK_____ HOK_____ HOK_____ COC Emailed_____

WORK ORDER Summary

Work Order: **1303596**

Client: Utah Division of Water Quality

Due Date: 3/26/2013

Sample ID	Client Sample ID	Collected Date	Received Date	Test Code	Matrix	Sel	Storage	
1303596-008B	**Between Weirs / 4920394**	3/23/2013 1130h	3/23/2013 1410h	**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:				
1303596-008C				**3510-TPH-PR**		☐	Walkin-TPH (Liters)	
				8015-W-TPH(1L)		☑	Walkin-TPH (Liters)	
				Test Group: 8015-W-TPH1L; # of Analytes: 1 / # of Surr: 1				
1303596-008D				**3510-ORO-PR**		☐	Walkin-oro (Liters)	
				8015-W-ORO(1L)		☐	Walkin-oro (Liters)	
1303596-008E				**COD-HACH8000**		☐	ww - cod	1
1303596-009A	**Between Weirs Dup / 4920394**	3/23/2013 1230h	3/23/2013 1410h	**8260-W**	Aqueous	☑	VOCFridge	3
				Test Group: 8260-W-Full; # of Analytes: 103 / # of Surr: 4				
1303596-009B				**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:				
1303596-009C				**3510-TPH-PR**		☐	Walkin-TPH (Liters)	
				8015-W-TPH(1L)		☑	Walkin-TPH (Liters)	
				Test Group: 8015-W-TPH1L; # of Analytes: 1 / # of Surr: 1				
1303596-009D				**3510-ORO-PR**		☐	Walkin-oro (Liters)	
				8015-W-ORO(1L)		☐	Walkin-oro (Liters)	
1303596-009E				**COD-HACH8000**		☐	ww - cod	1

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

Client UT DWQ
Address 195 N 1950W
SLC (City) UT (State) 84114 (Zip)
Phone 801-536-4300 Fax
Contact CHRIS BITTNER
E-mail cbittner@utah.gov
Project Name MP 44.9 INCIDENT
Project Number/P.O.#
Sampler Name

AMERICAN WEST ANALYTICAL LABORATORIES
463 West 3600 South
Salt Lake City, Utah 84115
(801) 263-8686
(888) 263-8686
Fax (801) 263-8687
Email:awal@awal-labs.com

CHAIN OF CUSTODY

Lab Sample Set # 1303596
Page 1 of 1

Turn Around Time (Circle One): 1 day 2 day 3 day 4 day 5 day Standard

	Sample ID	Date/Time Collected	Matrix	Number of Containers (Total)	8260 (VOC)	8270 full semi	8270 PAH Sim	TPH DRO	TPH GRO	COD					QC LEVEL	COMMENTS
1	EAST OF I-15 4920392	3/23 9:00	W	10		X	X	X	X	X					1 2 2+ 3 3+ 4	
2	SOUTH MARINA 4920495	3/23 10:00	W	10		X	X	X	X	X						
3	FIELD BLANK	3/23 10:30	W	3												
4	TRIP BLANK		W	3												
5	WEST BOOM 4920396	3/23 10:45	W	10		X	X	X	X	X						
6	EAST BOOM 4920395	3/23 11:00	W	10		X	X	X	X	X						
7	NORTH BOOM 4920397	3/23 11:15	W	10		X	X	X	X	X						
8	BETWEEN WEIRS 4920394	3/23 11:30	W	10		X	X	X	X	X						
9	BETWEEN WEIRS DUP 4920394	3/23 12:30	W	10		X	X	X	X	X						

Relinquished By: Signature	Date	Received By: Signature	Date
PRINT NAME: ALEX ANDERSON	Time: 14:10	PRINT NAME: Kyle F. Gross	Time: 14:10
Relinquished By: Signature	Date	Received By: Signature	Date
PRINT NAME	Time	PRINT NAME	Time
Relinquished By: Signature	Date	Received By: Signature	Date
PRINT NAME	Time	PRINT NAME	Time
Relinquished By: Signature	Date	Received By: Signature	Date
PRINT NAME	Time	PRINT NAME	Time

Special Instructions:

LABORATORY USE ONLY

SAMPLES WERE:
1 Shipped or hand delivered
Notes:
2 Ambient or Chilled
Notes:
3 Temperature 5.0
4 Received Broken/Leaking (Improperly Sealed) Y N
Notes:
5 Properly Preserved Y N
Checked at Bench Y N
Notes:
6 Received Within Holding Times Y N
Notes:

COC Tape Was:
1 Present on Outer Package Y N NA
2 Unbroken on Outer Package Y N NA
3 Present on Sample Y N NA
4 Unbroken on Sample Y N NA

Discrepancies Between Sample Labels and COC Record? Y N
Notes:

Sample Set: 1303596

Preservation Check Sheet

Sample Set Extension and pH

Bottle Type	Preservative	All OK	Except -001	Except -002	Except -005	Except -006	Except -007	Except -008	Except -009	Except	Except	Except	Except	Except	Except	Except	Except
Ammonia	pH <2 H_2SO_4																
COD	pH <2 H_2SO_4		Yes	Yes	Yes	Yes	Yes	Yes	Yes								
Cyanide	PH >12 NaOH																
Metals	pH <2 HNO_3																
NO_2 & NO_3	pH <2 H_2SO_4																
Nutrients	pH <2 H_2SO_4																
O & G	pH <2 HCL																
Phenols	pH <2 H_2SO_4																
Sulfide	pH > 9NaOH, Zn Acetate																
TKN	pH <2 H_2SO_4																
TOC	pH <2 H_3PO_4																
TOX	pH <2 H_2SO_4																
T PO_4	pH <2 H_2SO_4																
TPH	pH <2 HCL																

Procedure:

1) Pour a small amount of sample in the sample lid
2) Pour sample from Lid gently over wide range pH paper
3) **Do Not** dip the pH paper in the sample bottle or lid
4) If sample is not preserved properly list its extension and receiving pH in the appropriate column above
5) Flag COC, notify client if requested
6) Place client conversation on COC
7) Samples may be adjusted

Frequency: All samples requiring preservation